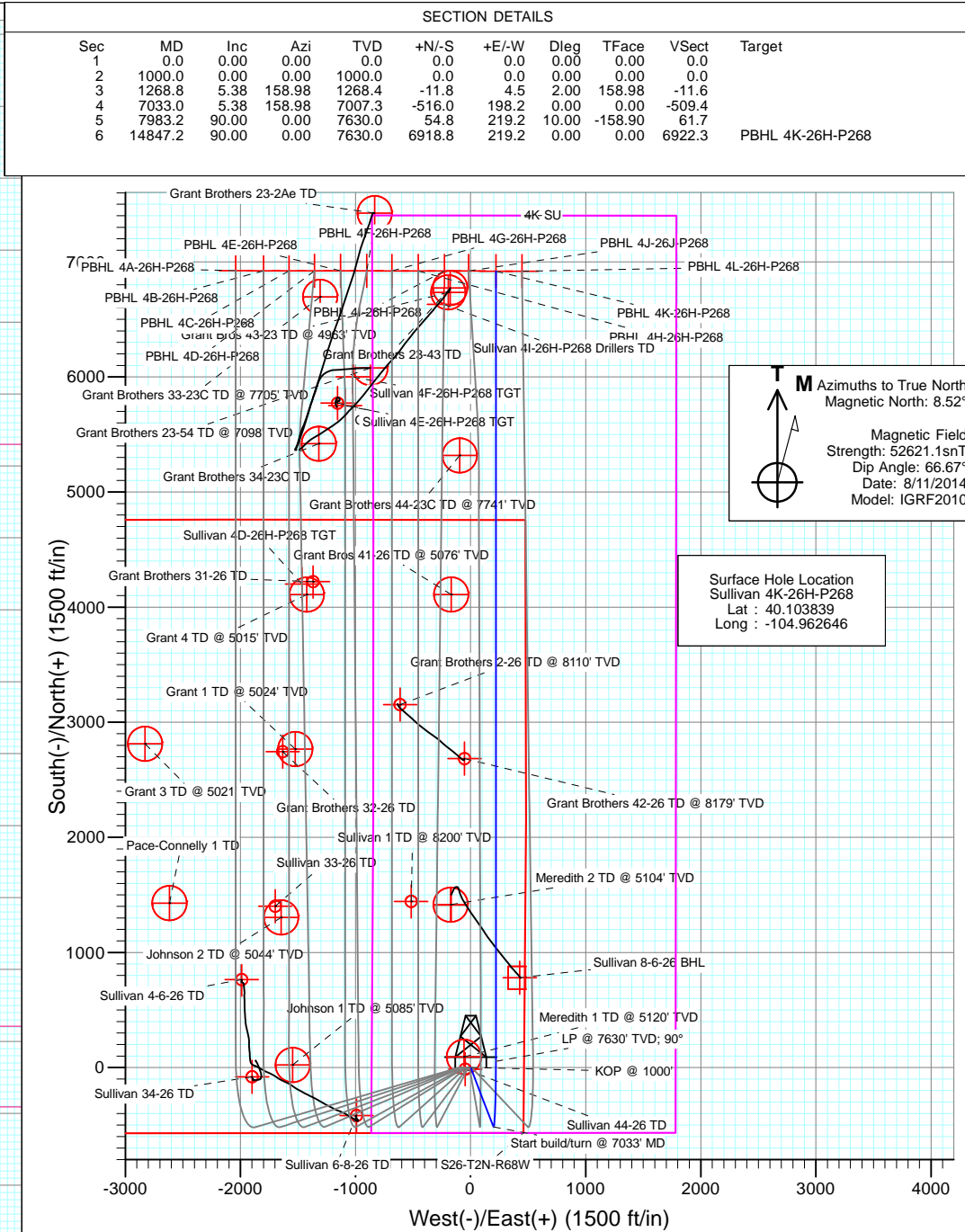
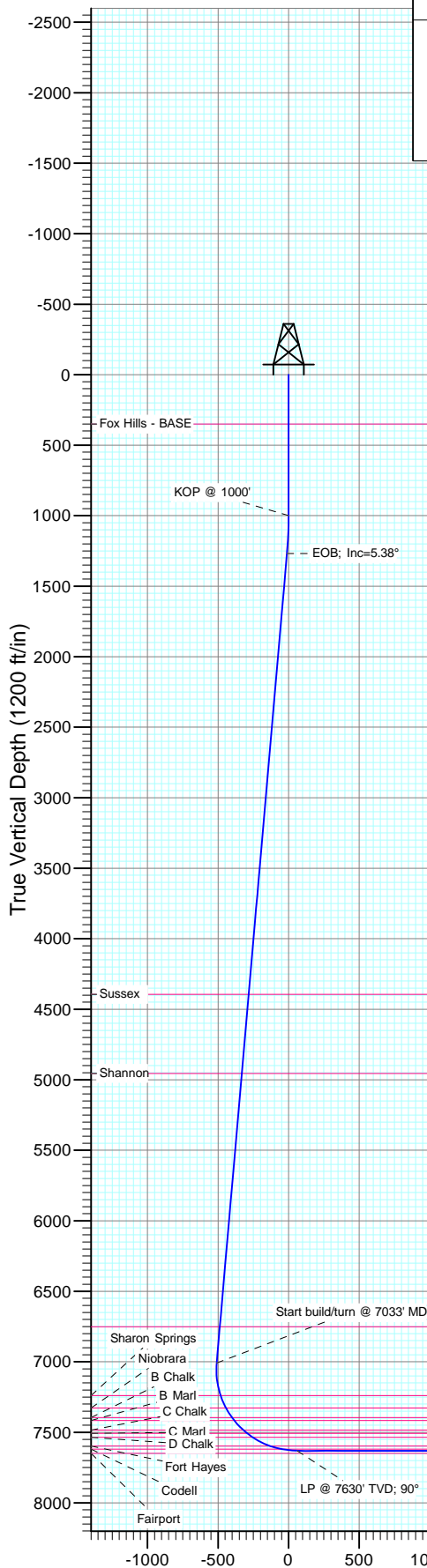




Project: DJ Wattenberg
Site: S26-T2N-R68W (Sullivan)
Well: Sullivan 4K-26H-P268
Wellbore: HZ
Design: Plan #1



| DESIGN TARGET DETAILS | | | | | | |
|-----------------------|--------|-------|------------|------------|-----------|-------------|
| Name | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| PBHL 4K-26H-P268 | 6918.8 | 219.2 | 1288050.83 | 3150495.13 | 40.122832 | -104.961862 |

Plan #1
Sullivan 4K-26H-P268
well @ 4996.0ft
Ground Elevation @ 4964.0
North American Datum 1983
Well Sullivan 4K-26H-P268, True North

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | well @ 4996.0ft |
| Project: | DJ Wattenberg | MD Reference: | well @ 4996.0ft |
| Site: | S26-T2N-R68W (Sullivan) | North Reference: | True |
| Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| Design: | Plan #1 | | |

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

| Site | | S26-T2N-R68W (Sullivan) | | | |
|-----------------------|----------|-------------------------|-----------------|-------------------|-------------|
| Site Position: | | Northing: | 1,282,631.01 ft | Latitude: | 40.107960 |
| From: | Lat/Long | Easting: | 3,150,139.78 ft | Longitude: | -104.963250 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.35 ° |

| | | | | | | |
|----------------------|----------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Sullivan 4K-26H-P268 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,281,130.82 ft | Latitude: | 40.103839 |
| | +E/-W | 0.0 ft | Easting: | 3,150,317.81 ft | Longitude: | -104.962646 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 0.0 ft | Ground Level: | 4,964.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | HZ | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 8/11/2014 | 8.52 | 66.67 | 52,621 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| Design | Plan #1 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 1.81 | |

| 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 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,268.8 | 5.38 | 158.98 | 1,268.4 | -11.8 | 4.5 | 2.00 | 2.00 | 0.00 | 158.98 | |
| 7,033.0 | 5.38 | 158.98 | 7,007.3 | -516.0 | 198.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,983.2 | 90.00 | 0.00 | 7,630.0 | 54.8 | 219.2 | 10.00 | 8.91 | -16.73 | -158.90 | |
| 14,847.2 | 90.00 | 0.00 | 7,630.0 | 6,918.8 | 219.2 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL 4K-26H-P268 |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | well @ 4996.0ft |
| Project: | DJ Wattenberg | MD Reference: | well @ 4996.0ft |
| Site: | S26-T2N-R68W (Sullivan) | North Reference: | True |
| Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 350.0 | 0.00 | 0.00 | 350.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | Fox Hills - BASE |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 1000' |
| 1,100.0 | 2.00 | 158.98 | 1,100.0 | -1.6 | 0.6 | -1.6 | 2.00 | 2.00 | |
| 1,200.0 | 4.00 | 158.98 | 1,199.8 | -6.5 | 2.5 | -6.4 | 2.00 | 2.00 | |
| 1,268.8 | 5.38 | 158.98 | 1,268.4 | -11.8 | 4.5 | -11.6 | 2.00 | 2.00 | EOB; Inc=5.38° |
| 1,300.0 | 5.38 | 158.98 | 1,299.5 | -14.5 | 5.6 | -14.3 | 0.00 | 0.00 | |
| 1,400.0 | 5.38 | 158.98 | 1,399.0 | -23.2 | 8.9 | -22.9 | 0.00 | 0.00 | |
| 1,500.0 | 5.38 | 158.98 | 1,498.6 | -32.0 | 12.3 | -31.6 | 0.00 | 0.00 | |
| 1,600.0 | 5.38 | 158.98 | 1,598.2 | -40.7 | 15.6 | -40.2 | 0.00 | 0.00 | |
| 1,700.0 | 5.38 | 158.98 | 1,697.7 | -49.5 | 19.0 | -48.9 | 0.00 | 0.00 | |
| 1,800.0 | 5.38 | 158.98 | 1,797.3 | -58.2 | 22.4 | -57.5 | 0.00 | 0.00 | |
| 1,900.0 | 5.38 | 158.98 | 1,896.8 | -67.0 | 25.7 | -66.1 | 0.00 | 0.00 | |
| 2,000.0 | 5.38 | 158.98 | 1,996.4 | -75.7 | 29.1 | -74.8 | 0.00 | 0.00 | |
| 2,100.0 | 5.38 | 158.98 | 2,096.0 | -84.5 | 32.5 | -83.4 | 0.00 | 0.00 | |
| 2,200.0 | 5.38 | 158.98 | 2,195.5 | -93.2 | 35.8 | -92.0 | 0.00 | 0.00 | |
| 2,300.0 | 5.38 | 158.98 | 2,295.1 | -102.0 | 39.2 | -100.7 | 0.00 | 0.00 | |
| 2,400.0 | 5.38 | 158.98 | 2,394.6 | -110.7 | 42.5 | -109.3 | 0.00 | 0.00 | |
| 2,500.0 | 5.38 | 158.98 | 2,494.2 | -119.5 | 45.9 | -117.9 | 0.00 | 0.00 | |
| 2,600.0 | 5.38 | 158.98 | 2,593.8 | -128.2 | 49.3 | -126.6 | 0.00 | 0.00 | |
| 2,700.0 | 5.38 | 158.98 | 2,693.3 | -136.9 | 52.6 | -135.2 | 0.00 | 0.00 | |
| 2,800.0 | 5.38 | 158.98 | 2,792.9 | -145.7 | 56.0 | -143.8 | 0.00 | 0.00 | |
| 2,900.0 | 5.38 | 158.98 | 2,892.4 | -154.4 | 59.3 | -152.5 | 0.00 | 0.00 | |
| 3,000.0 | 5.38 | 158.98 | 2,992.0 | -163.2 | 62.7 | -161.1 | 0.00 | 0.00 | |
| 3,100.0 | 5.38 | 158.98 | 3,091.6 | -171.9 | 66.1 | -169.8 | 0.00 | 0.00 | |
| 3,200.0 | 5.38 | 158.98 | 3,191.1 | -180.7 | 69.4 | -178.4 | 0.00 | 0.00 | |
| 3,300.0 | 5.38 | 158.98 | 3,290.7 | -189.4 | 72.8 | -187.0 | 0.00 | 0.00 | |
| 3,400.0 | 5.38 | 158.98 | 3,390.2 | -198.2 | 76.1 | -195.7 | 0.00 | 0.00 | |
| 3,500.0 | 5.38 | 158.98 | 3,489.8 | -206.9 | 79.5 | -204.3 | 0.00 | 0.00 | |
| 3,600.0 | 5.38 | 158.98 | 3,589.4 | -215.7 | 82.9 | -212.9 | 0.00 | 0.00 | |
| 3,700.0 | 5.38 | 158.98 | 3,688.9 | -224.4 | 86.2 | -221.6 | 0.00 | 0.00 | |
| 3,800.0 | 5.38 | 158.98 | 3,788.5 | -233.2 | 89.6 | -230.2 | 0.00 | 0.00 | |
| 3,900.0 | 5.38 | 158.98 | 3,888.0 | -241.9 | 92.9 | -238.8 | 0.00 | 0.00 | |
| 4,000.0 | 5.38 | 158.98 | 3,987.6 | -250.7 | 96.3 | -247.5 | 0.00 | 0.00 | |
| 4,100.0 | 5.38 | 158.98 | 4,087.2 | -259.4 | 99.7 | -256.1 | 0.00 | 0.00 | |
| 4,200.0 | 5.38 | 158.98 | 4,186.7 | -268.2 | 103.0 | -264.8 | 0.00 | 0.00 | |
| 4,300.0 | 5.38 | 158.98 | 4,286.3 | -276.9 | 106.4 | -273.4 | 0.00 | 0.00 | |
| 4,400.0 | 5.38 | 158.98 | 4,385.8 | -285.6 | 109.7 | -282.0 | 0.00 | 0.00 | |
| 4,408.2 | 5.38 | 158.98 | 4,394.0 | -286.4 | 110.0 | -282.7 | 0.00 | 0.00 | Sussex |
| 4,500.0 | 5.38 | 158.98 | 4,485.4 | -294.4 | 113.1 | -290.7 | 0.00 | 0.00 | |
| 4,600.0 | 5.38 | 158.98 | 4,585.0 | -303.1 | 116.5 | -299.3 | 0.00 | 0.00 | |
| 4,700.0 | 5.38 | 158.98 | 4,684.5 | -311.9 | 119.8 | -307.9 | 0.00 | 0.00 | |
| 4,800.0 | 5.38 | 158.98 | 4,784.1 | -320.6 | 123.2 | -316.6 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | well @ 4996.0ft |
| Project: | DJ Wattenberg | MD Reference: | well @ 4996.0ft |
| Site: | S26-T2N-R68W (Sullivan) | North Reference: | True |
| Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 4,900.0 | 5.38 | 158.98 | 4,883.6 | -329.4 | 126.5 | -325.2 | 0.00 | 0.00 | |
| 4,971.7 | 5.38 | 158.98 | 4,955.0 | -335.6 | 129.0 | -331.4 | 0.00 | 0.00 | Shannon |
| 5,000.0 | 5.38 | 158.98 | 4,983.2 | -338.1 | 129.9 | -333.8 | 0.00 | 0.00 | |
| 5,100.0 | 5.38 | 158.98 | 5,082.8 | -346.9 | 133.3 | -342.5 | 0.00 | 0.00 | |
| 5,200.0 | 5.38 | 158.98 | 5,182.3 | -355.6 | 136.6 | -351.1 | 0.00 | 0.00 | |
| 5,300.0 | 5.38 | 158.98 | 5,281.9 | -364.4 | 140.0 | -359.8 | 0.00 | 0.00 | |
| 5,400.0 | 5.38 | 158.98 | 5,381.4 | -373.1 | 143.3 | -368.4 | 0.00 | 0.00 | |
| 5,500.0 | 5.38 | 158.98 | 5,481.0 | -381.9 | 146.7 | -377.0 | 0.00 | 0.00 | |
| 5,600.0 | 5.38 | 158.98 | 5,580.6 | -390.6 | 150.1 | -385.7 | 0.00 | 0.00 | |
| 5,700.0 | 5.38 | 158.98 | 5,680.1 | -399.4 | 153.4 | -394.3 | 0.00 | 0.00 | |
| 5,800.0 | 5.38 | 158.98 | 5,779.7 | -408.1 | 156.8 | -402.9 | 0.00 | 0.00 | |
| 5,900.0 | 5.38 | 158.98 | 5,879.2 | -416.8 | 160.2 | -411.6 | 0.00 | 0.00 | |
| 6,000.0 | 5.38 | 158.98 | 5,978.8 | -425.6 | 163.5 | -420.2 | 0.00 | 0.00 | |
| 6,100.0 | 5.38 | 158.98 | 6,078.4 | -434.3 | 166.9 | -428.8 | 0.00 | 0.00 | |
| 6,200.0 | 5.38 | 158.98 | 6,177.9 | -443.1 | 170.2 | -437.5 | 0.00 | 0.00 | |
| 6,300.0 | 5.38 | 158.98 | 6,277.5 | -451.8 | 173.6 | -446.1 | 0.00 | 0.00 | |
| 6,400.0 | 5.38 | 158.98 | 6,377.0 | -460.6 | 177.0 | -454.7 | 0.00 | 0.00 | |
| 6,500.0 | 5.38 | 158.98 | 6,476.6 | -469.3 | 180.3 | -463.4 | 0.00 | 0.00 | |
| 6,600.0 | 5.38 | 158.98 | 6,576.2 | -478.1 | 183.7 | -472.0 | 0.00 | 0.00 | |
| 6,700.0 | 5.38 | 158.98 | 6,675.7 | -486.8 | 187.0 | -480.7 | 0.00 | 0.00 | |
| 6,775.6 | 5.38 | 158.98 | 6,751.0 | -493.4 | 189.6 | -487.2 | 0.00 | 0.00 | Teepee Buttes (*if present) |
| 6,800.0 | 5.38 | 158.98 | 6,775.3 | -495.6 | 190.4 | -489.3 | 0.00 | 0.00 | |
| 6,900.0 | 5.38 | 158.98 | 6,874.8 | -504.3 | 193.8 | -497.9 | 0.00 | 0.00 | |
| 7,000.0 | 5.38 | 158.98 | 6,974.4 | -513.1 | 197.1 | -506.6 | 0.00 | 0.00 | |
| 7,033.0 | 5.38 | 158.98 | 7,007.3 | -516.0 | 198.2 | -509.4 | 0.00 | 0.00 | Start build/turn @ 7033' MD |
| 7,100.0 | 2.56 | 49.02 | 7,074.2 | -517.9 | 200.5 | -511.3 | 10.00 | -4.21 | |
| 7,200.0 | 11.84 | 9.27 | 7,173.3 | -506.3 | 203.8 | -499.6 | 10.00 | 9.28 | |
| 7,268.1 | 18.59 | 5.76 | 7,239.0 | -488.6 | 206.0 | -481.8 | 10.00 | 9.91 | Sharon Springs |
| 7,300.0 | 21.76 | 4.85 | 7,268.9 | -477.6 | 207.1 | -470.8 | 10.00 | 9.95 | |
| 7,364.1 | 28.15 | 3.62 | 7,327.0 | -450.7 | 209.0 | -443.8 | 10.00 | 9.97 | Niobrara |
| 7,400.0 | 31.73 | 3.13 | 7,358.1 | -432.8 | 210.1 | -425.9 | 10.00 | 9.97 | |
| 7,444.5 | 36.17 | 2.65 | 7,395.0 | -408.0 | 211.3 | -401.1 | 10.00 | 9.98 | B Chalk |
| 7,471.0 | 38.82 | 2.40 | 7,416.0 | -391.9 | 212.0 | -385.0 | 10.00 | 9.98 | B Marl |
| 7,500.0 | 41.71 | 2.17 | 7,438.2 | -373.1 | 212.8 | -366.2 | 9.99 | 9.98 | |
| 7,564.8 | 48.19 | 1.73 | 7,484.0 | -327.4 | 214.3 | -320.4 | 10.00 | 9.99 | C Chalk |
| 7,600.0 | 51.70 | 1.53 | 7,506.6 | -300.5 | 215.1 | -293.5 | 10.00 | 9.99 | |
| 7,600.6 | 51.77 | 1.52 | 7,507.0 | -300.0 | 215.1 | -293.0 | 10.26 | 10.25 | C Marl |
| 7,646.6 | 56.36 | 1.29 | 7,534.0 | -262.8 | 216.0 | -255.8 | 10.00 | 9.99 | D Chalk |
| 7,700.0 | 61.70 | 1.04 | 7,561.5 | -217.0 | 216.9 | -210.0 | 10.00 | 9.99 | |
| 7,787.8 | 70.47 | 0.69 | 7,597.0 | -136.9 | 218.1 | -129.9 | 10.00 | 9.99 | Fort Hayes |
| 7,800.0 | 71.69 | 0.64 | 7,601.0 | -125.3 | 218.3 | -118.3 | 9.99 | 9.98 | |
| 7,870.7 | 78.76 | 0.38 | 7,619.0 | -57.0 | 218.9 | -50.0 | 10.00 | 10.00 | Codell |
| 7,900.0 | 81.68 | 0.28 | 7,624.0 | -28.1 | 219.0 | -21.1 | 9.99 | 9.99 | |
| 7,983.2 | 90.00 | 0.00 | 7,630.0 | 54.8 | 219.2 | 61.7 | 10.00 | 10.00 | LP @ 7630' TVD; 90° |
| 8,000.0 | 90.00 | 0.00 | 7,630.0 | 71.6 | 219.2 | 78.5 | 0.00 | 0.00 | |
| 8,100.0 | 90.00 | 0.00 | 7,630.0 | 171.6 | 219.2 | 178.5 | 0.00 | 0.00 | |
| 8,200.0 | 90.00 | 0.00 | 7,630.0 | 271.6 | 219.2 | 278.4 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 0.00 | 7,630.0 | 371.6 | 219.2 | 378.4 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 0.00 | 7,630.0 | 471.6 | 219.2 | 478.3 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 0.00 | 7,630.0 | 571.6 | 219.2 | 578.3 | 0.00 | 0.00 | |
| 8,600.0 | 90.00 | 0.00 | 7,630.0 | 671.6 | 219.2 | 678.2 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 0.00 | 7,630.0 | 771.6 | 219.2 | 778.2 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | well @ 4996.0ft |
| Project: | DJ Wattenberg | MD Reference: | well @ 4996.0ft |
| Site: | S26-T2N-R68W (Sullivan) | North Reference: | True |
| Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 8,800.0 | 90.00 | 0.00 | 7,630.0 | 871.6 | 219.2 | 878.1 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 0.00 | 7,630.0 | 971.6 | 219.2 | 978.1 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 0.00 | 7,630.0 | 1,071.6 | 219.2 | 1,078.0 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 0.00 | 7,630.0 | 1,171.6 | 219.2 | 1,178.0 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 0.00 | 7,630.0 | 1,271.6 | 219.2 | 1,277.9 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 0.00 | 7,630.0 | 1,371.6 | 219.2 | 1,377.9 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 0.00 | 7,630.0 | 1,471.6 | 219.2 | 1,477.8 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 0.00 | 7,630.0 | 1,571.6 | 219.2 | 1,577.8 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 0.00 | 7,630.0 | 1,671.6 | 219.2 | 1,677.7 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 0.00 | 7,630.0 | 1,771.6 | 219.2 | 1,777.7 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 0.00 | 7,630.0 | 1,871.6 | 219.2 | 1,877.6 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 0.00 | 7,630.0 | 1,971.6 | 219.2 | 1,977.6 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 0.00 | 7,630.0 | 2,071.6 | 219.2 | 2,077.5 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 0.00 | 7,630.0 | 2,171.6 | 219.2 | 2,177.5 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 0.00 | 7,630.0 | 2,271.6 | 219.2 | 2,277.4 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 0.00 | 7,630.0 | 2,371.6 | 219.2 | 2,377.4 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 0.00 | 7,630.0 | 2,471.6 | 219.2 | 2,477.3 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 0.00 | 7,630.0 | 2,571.6 | 219.2 | 2,577.3 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 0.00 | 7,630.0 | 2,671.6 | 219.2 | 2,677.2 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 0.00 | 7,630.0 | 2,771.6 | 219.2 | 2,777.2 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 0.00 | 7,630.0 | 2,871.6 | 219.2 | 2,877.1 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 0.00 | 7,630.0 | 2,971.6 | 219.2 | 2,977.1 | 0.00 | 0.00 | |
| 11,000.0 | 90.00 | 0.00 | 7,630.0 | 3,071.6 | 219.2 | 3,077.0 | 0.00 | 0.00 | |
| 11,100.0 | 90.00 | 0.00 | 7,630.0 | 3,171.6 | 219.2 | 3,177.0 | 0.00 | 0.00 | |
| 11,200.0 | 90.00 | 0.00 | 7,630.0 | 3,271.6 | 219.2 | 3,276.9 | 0.00 | 0.00 | |
| 11,300.0 | 90.00 | 0.00 | 7,630.0 | 3,371.6 | 219.2 | 3,376.9 | 0.00 | 0.00 | |
| 11,400.0 | 90.00 | 0.00 | 7,630.0 | 3,471.6 | 219.2 | 3,476.8 | 0.00 | 0.00 | |
| 11,500.0 | 90.00 | 0.00 | 7,630.0 | 3,571.6 | 219.2 | 3,576.8 | 0.00 | 0.00 | |
| 11,600.0 | 90.00 | 0.00 | 7,630.0 | 3,671.6 | 219.2 | 3,676.7 | 0.00 | 0.00 | |
| 11,700.0 | 90.00 | 0.00 | 7,630.0 | 3,771.6 | 219.2 | 3,776.7 | 0.00 | 0.00 | |
| 11,800.0 | 90.00 | 0.00 | 7,630.0 | 3,871.6 | 219.2 | 3,876.6 | 0.00 | 0.00 | |
| 11,900.0 | 90.00 | 0.00 | 7,630.0 | 3,971.6 | 219.2 | 3,976.6 | 0.00 | 0.00 | |
| 12,000.0 | 90.00 | 0.00 | 7,630.0 | 4,071.6 | 219.2 | 4,076.5 | 0.00 | 0.00 | |
| 12,100.0 | 90.00 | 0.00 | 7,630.0 | 4,171.6 | 219.2 | 4,176.5 | 0.00 | 0.00 | |
| 12,200.0 | 90.00 | 0.00 | 7,630.0 | 4,271.6 | 219.2 | 4,276.4 | 0.00 | 0.00 | |
| 12,300.0 | 90.00 | 0.00 | 7,630.0 | 4,371.6 | 219.2 | 4,376.4 | 0.00 | 0.00 | |
| 12,400.0 | 90.00 | 0.00 | 7,630.0 | 4,471.6 | 219.2 | 4,476.3 | 0.00 | 0.00 | |
| 12,500.0 | 90.00 | 0.00 | 7,630.0 | 4,571.6 | 219.2 | 4,576.3 | 0.00 | 0.00 | |
| 12,600.0 | 90.00 | 0.00 | 7,630.0 | 4,671.6 | 219.2 | 4,676.2 | 0.00 | 0.00 | |
| 12,700.0 | 90.00 | 0.00 | 7,630.0 | 4,771.6 | 219.2 | 4,776.2 | 0.00 | 0.00 | |
| 12,800.0 | 90.00 | 0.00 | 7,630.0 | 4,871.6 | 219.2 | 4,876.1 | 0.00 | 0.00 | |
| 12,900.0 | 90.00 | 0.00 | 7,630.0 | 4,971.6 | 219.2 | 4,976.1 | 0.00 | 0.00 | |
| 13,000.0 | 90.00 | 0.00 | 7,630.0 | 5,071.6 | 219.2 | 5,076.0 | 0.00 | 0.00 | |
| 13,100.0 | 90.00 | 0.00 | 7,630.0 | 5,171.6 | 219.2 | 5,176.0 | 0.00 | 0.00 | |
| 13,200.0 | 90.00 | 0.00 | 7,630.0 | 5,271.6 | 219.2 | 5,275.9 | 0.00 | 0.00 | |
| 13,300.0 | 90.00 | 0.00 | 7,630.0 | 5,371.6 | 219.2 | 5,375.9 | 0.00 | 0.00 | |
| 13,400.0 | 90.00 | 0.00 | 7,630.0 | 5,471.6 | 219.2 | 5,475.8 | 0.00 | 0.00 | |
| 13,500.0 | 90.00 | 0.00 | 7,630.0 | 5,571.6 | 219.2 | 5,575.8 | 0.00 | 0.00 | |
| 13,600.0 | 90.00 | 0.00 | 7,630.0 | 5,671.6 | 219.2 | 5,675.7 | 0.00 | 0.00 | |
| 13,700.0 | 90.00 | 0.00 | 7,630.0 | 5,771.6 | 219.2 | 5,775.7 | 0.00 | 0.00 | |
| 13,800.0 | 90.00 | 0.00 | 7,630.0 | 5,871.6 | 219.2 | 5,875.6 | 0.00 | 0.00 | |
| 13,900.0 | 90.00 | 0.00 | 7,630.0 | 5,971.6 | 219.2 | 5,975.6 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | well @ 4996.0ft |
| Project: | DJ Wattenberg | MD Reference: | well @ 4996.0ft |
| Site: | S26-T2N-R68W (Sullivan) | North Reference: | True |
| Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 14,000.0 | 90.00 | 0.00 | 7,630.0 | 6,071.6 | 219.2 | 6,075.5 | 0.00 | 0.00 | |
| 14,100.0 | 90.00 | 0.00 | 7,630.0 | 6,171.6 | 219.2 | 6,175.5 | 0.00 | 0.00 | |
| 14,200.0 | 90.00 | 0.00 | 7,630.0 | 6,271.6 | 219.2 | 6,275.4 | 0.00 | 0.00 | |
| 14,300.0 | 90.00 | 0.00 | 7,630.0 | 6,371.6 | 219.2 | 6,375.4 | 0.00 | 0.00 | |
| 14,400.0 | 90.00 | 0.00 | 7,630.0 | 6,471.6 | 219.2 | 6,475.3 | 0.00 | 0.00 | |
| 14,500.0 | 90.00 | 0.00 | 7,630.0 | 6,571.6 | 219.2 | 6,575.3 | 0.00 | 0.00 | |
| 14,600.0 | 90.00 | 0.00 | 7,630.0 | 6,671.6 | 219.2 | 6,675.2 | 0.00 | 0.00 | |
| 14,700.0 | 90.00 | 0.00 | 7,630.0 | 6,771.6 | 219.2 | 6,775.2 | 0.00 | 0.00 | |
| 14,800.0 | 90.00 | 0.00 | 7,630.0 | 6,871.6 | 219.2 | 6,875.1 | 0.00 | 0.00 | |
| 14,847.2 | 90.00 | 0.00 | 7,630.0 | 6,918.8 | 219.2 | 6,922.3 | 0.00 | 0.00 | TD at 14847.2 |

Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|--|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| PBHL 4K-26H-P268 - plan hits target center - Point | 0.00 | 0.00 | 7,630.0 | 6,918.8 | 219.2 | 1,288,050.83 | 3,150,495.13 | 40.122832 | -104.961862 |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|-----------------------------|-----------|---------|-------------------|
| 350.0 | 350.0 | Fox Hills - BASE | | | |
| 4,408.2 | 4,394.0 | Sussex | | | |
| 4,971.7 | 4,955.0 | Shannon | | | |
| 6,775.6 | 6,751.0 | Teepee Buttes (*if present) | | | |
| 7,268.1 | 7,239.0 | Sharon Springs | | | |
| 7,364.1 | 7,327.0 | Niobrara | | | |
| 7,444.5 | 7,395.0 | B Chalk | | | |
| 7,471.0 | 7,416.0 | B Marl | | | |
| 7,564.8 | 7,484.0 | C Chalk | | | |
| 7,600.6 | 7,507.0 | C Marl | | | |
| 7,646.6 | 7,534.0 | D Chalk | | | |
| 7,787.8 | 7,597.0 | Fort Hayes | | | |
| 7,870.7 | 7,619.0 | Codell | | | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
|---------------------|---------------------|------------|------------|-----------------------------|
| 1,000.0 | 1,000.0 | 0.0 | 0.0 | KOP @ 1000' |
| 1,268.8 | 1,268.4 | -11.8 | 4.5 | EOB; Inc=5.38° |
| 7,033.0 | 7,007.3 | -516.0 | 198.2 | Start build/turn @ 7033' MD |
| 7,983.2 | 7,630.0 | 54.8 | 219.2 | LP @ 7630' TVD; 90° |
| 14,847.2 | 7,630.0 | 6,918.8 | 219.2 | TD at 14847.2 |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S26-T2N-R68W (Sullivan)

Sullivan 4K-26H-P268

HZ

Plan #1

Anticollision Report

26 August, 2014

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #1 | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | 0.0 to 14,337.0ft | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | | |
|----------------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Tool Program | | Date | 8/26/2014 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 14,846.4 | Plan #1 (HZ) | Geolink MWD | Geolink MWD | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|--|-------------------------------------|--|---|----------------------|--------------|
| Offset Well - Wellbore - Design | | | | | | |
| S26-T2N-R68W (Sullivan) | | | | | | |
| BERGER 32-23 (EXISTING) - SUNDANCE WELL - NO S | | | | | | Out of range |
| BERGER 42-23C (EXISTING) - SUNDANCE WELL - NO | | | | | | Out of range |
| GRANT 1 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| GRANT 3 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| GRANT 4 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| GRANT BROS 41-26 (EXISTING) - SUNDANCE WELL - | | | | | | Out of range |
| GRANT BROS 43-23 (EXISTING) - SUNDANCE WELL - | | | | | | Out of range |
| GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL | 11,081.3 | 7,579.0 | 832.6 | 760.7 | 11.579 | CC |
| GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL | 11,100.0 | 7,579.0 | 832.8 | 760.6 | 11.531 | ES |
| GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL | 11,200.0 | 7,579.0 | 841.0 | 767.1 | 11.376 | SF |
| GRANT BROTHERS 23-2Ae (EXISTING) - SUNDANCE | | | | | | Out of range |
| GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE W | 14,300.0 | 7,848.7 | 562.7 | 419.9 | 3.941 | CC, ES, SF |
| GRANT BROTHERS 23-54 (EXISTING) - SUNDANCE W | | | | | | Out of range |
| GRANT BROTHERS 31-26 (EXISTING) - ENCANA WEL | | | | | | Out of range |
| GRANT BROTHERS 32-26 (EXISTING) - ENCANA WEL | | | | | | Out of range |
| GRANT BROTHERS 3-23 (EXISTING) - ENCANA WELL | | | | | | Out of range |
| GRANT BROTHERS 33-23C (EXISTING) - SUNDANCE | | | | | | Out of range |
| GRANT BROTHERS 34-23C (EXISTING) - SUNDANCE | | | | | | Out of range |
| GRANT BROTHERS 42-26 (EXISTING) - ENCANA WEL | 10,608.3 | 7,648.3 | 274.9 | 208.4 | 4.134 | CC, ES, SF |
| GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE | 13,245.8 | 7,591.0 | 314.1 | 204.8 | 2.874 | CC, ES, SF |
| JOHNSON 1 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| JOHNSON 2 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS | 1,000.0 | 963.0 | 109.8 | 106.4 | 32.578 | CC, ES |
| MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS | 5,100.0 | 5,045.7 | 479.9 | 462.3 | 27.212 | SF |
| MEREDITH 2 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| PACE-CONNELLY 1 (EXISTING) - FOUNDATION WELL | | | | | | Out of range |
| SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVE | 9,371.4 | 7,592.0 | 735.6 | 692.0 | 16.880 | CC, ES |
| SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVE | 9,600.0 | 7,592.0 | 770.3 | 723.1 | 16.319 | SF |
| SULLIVAN 33-26 (EXISTING) - ENCANA WELL - NO SU | | | | | | Out of range |
| SULLIVAN 34-26 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU | 1,000.0 | 965.0 | 49.2 | 45.8 | 14.580 | CC |
| SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU | 1,100.0 | 1,065.0 | 49.3 | 45.6 | 13.249 | ES |
| SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SU | 7,912.6 | 7,590.7 | 266.1 | 239.1 | 9.851 | SF |
| SULLIVAN 4-6-26 (EXISTING) - ENCANA WELL - SURV | | | | | | Out of range |
| Sullivan 4A-26H-P268 - HZ - Plan #1 | 200.0 | 199.0 | 100.1 | 99.6 | 171.277 | CC, ES |
| Sullivan 4A-26H-P268 - HZ - Plan #1 | 900.0 | 864.2 | 179.7 | 176.5 | 56.700 | SF |
| Sullivan 4B-26H-P268 - HZ - Plan #1 | 300.0 | 300.0 | 90.1 | 89.1 | 96.284 | CC, ES |
| Sullivan 4B-26H-P268 - HZ - Plan #1 | 900.0 | 874.8 | 148.6 | 145.5 | 47.637 | SF |
| Sullivan 4C-26H-P268 - HZ - Plan #1 | 400.0 | 400.0 | 80.0 | 78.7 | 62.280 | CC, ES |
| Sullivan 4C-26H-P268 - HZ - Plan #1 | 900.0 | 882.7 | 120.4 | 117.3 | 39.068 | SF |
| Sullivan 4D-26H-P268 - HZ - Plan #1 | 500.0 | 500.0 | 70.2 | 68.6 | 42.980 | CC, ES |
| Sullivan 4D-26H-P268 - HZ - Plan #1 | 900.0 | 888.8 | 95.7 | 92.6 | 31.320 | SF |
| Sullivan 4E-26H-P268 - HZ - Plan #1 | 600.0 | 600.0 | 60.1 | 58.2 | 30.334 | CC, ES |
| Sullivan 4E-26H-P268 - HZ - Plan #1 | 900.0 | 893.5 | 74.0 | 71.0 | 24.365 | SF |
| Sullivan 4F-26H-P268 - HZ - Plan #1 | 700.0 | 700.0 | 50.1 | 47.7 | 21.474 | CC, ES |
| Sullivan 4F-26H-P268 - HZ - Plan #1 | 900.0 | 896.8 | 55.9 | 52.9 | 18.446 | SF |
| Sullivan 4G-26H-P268 - HZ - Plan #1 | 800.0 | 800.0 | 40.0 | 37.3 | 14.921 | CC, ES |
| Sullivan 4G-26H-P268 - HZ - Plan #1 | 14,300.0 | 14,194.2 | 912.2 | 686.0 | 4.032 | SF |
| Sullivan 4H-26H-P268 - HZ - Plan #1 | 866.3 | 867.3 | 30.2 | 27.3 | 10.367 | CC |
| Sullivan 4H-26H-P268 - HZ - Plan #1 | 900.0 | 901.0 | 30.2 | 27.2 | 9.965 | ES |
| Sullivan 4H-26H-P268 - HZ - Plan #1 | 14,300.0 | 14,310.6 | 674.2 | 445.6 | 2.948 | SF |
| Sullivan 4I-26H-P268 - HZ - Plan #1 | 966.3 | 967.3 | 20.1 | 16.9 | 6.172 | CC |
| Sullivan 4I-26H-P268 - HZ - Plan #1 | 1,000.0 | 1,001.0 | 20.1 | 16.8 | 5.957 | ES |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Summary | | | | | | |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| S26-T2N-R68W (Sullivan) | | | | | | |
| Sullivan 4I-26H-P268 - HZ - Plan #1 | 14,300.0 | 14,083.6 | 507.0 | 301.2 | 2.464 | SF |
| Sullivan 4J-26H-P268 - HZ - Plan #1 | 1,000.0 | 1,000.0 | 10.1 | 6.7 | 2.980 | CC, ES |
| Sullivan 4J-26H-P268 - HZ - Plan #1 | 14,300.0 | 14,151.9 | 243.7 | 52.0 | 1.271 | Level 3, SF |
| Sullivan 4L-26H-P268 - HZ - Plan #1 | 1,000.0 | 1,000.0 | 9.8 | 6.4 | 2.899 | CC, ES |
| Sullivan 4L-26H-P268 - HZ - Plan #1 | 14,300.0 | 14,098.6 | 324.9 | 156.8 | 1.933 | SF |
| SULLIVAN 6-8-26 (EXISTING) - ENCANA WELL - SURV | | | | | | Out of range |
| SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURV | 8,707.3 | 7,706.3 | 214.2 | 175.7 | 5.565 | CC, ES, SF |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 2-26 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------|
| Survey Program: 8110-Geolink MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | |
| 10,600.0 | 7,630.0 | 7,579.0 | 7,579.0 | 50.7 | 13.2 | -90.00 | 3,152.9 | -613.4 | 961.7 | 898.0 | 63.73 | 15.089 | |
| 10,700.0 | 7,630.0 | 7,579.0 | 7,579.0 | 52.3 | 13.2 | -90.00 | 3,152.9 | -613.4 | 915.8 | 850.3 | 65.42 | 13.997 | |
| 10,800.0 | 7,630.0 | 7,579.0 | 7,579.0 | 54.0 | 13.2 | -90.00 | 3,152.9 | -613.4 | 878.8 | 811.7 | 67.12 | 13.094 | |
| 10,900.0 | 7,630.0 | 7,579.0 | 7,579.0 | 55.7 | 13.2 | -90.00 | 3,152.9 | -613.4 | 852.1 | 783.3 | 68.82 | 12.382 | |
| 11,000.0 | 7,630.0 | 7,579.0 | 7,579.0 | 57.4 | 13.2 | -90.00 | 3,152.9 | -613.4 | 836.6 | 766.0 | 70.52 | 11.863 | |
| 11,081.3 | 7,630.0 | 7,579.0 | 7,579.0 | 58.8 | 13.2 | -90.00 | 3,152.9 | -613.4 | 832.6 | 760.7 | 71.90 | 11.579 CC | |
| 11,100.0 | 7,630.0 | 7,579.0 | 7,579.0 | 59.1 | 13.2 | -90.00 | 3,152.9 | -613.4 | 832.8 | 760.6 | 72.22 | 11.531 ES | |
| 11,200.0 | 7,630.0 | 7,579.0 | 7,579.0 | 60.8 | 13.2 | -90.00 | 3,152.9 | -613.4 | 841.0 | 767.1 | 73.93 | 11.376 SF | |
| 11,300.0 | 7,630.0 | 7,579.0 | 7,579.0 | 62.5 | 13.2 | -90.00 | 3,152.9 | -613.4 | 860.9 | 785.2 | 75.64 | 11.381 | |
| 11,400.0 | 7,630.0 | 7,579.0 | 7,579.0 | 64.2 | 13.2 | -90.00 | 3,152.9 | -613.4 | 891.5 | 814.2 | 77.35 | 11.525 | |
| 11,500.0 | 7,630.0 | 7,579.0 | 7,579.0 | 66.0 | 13.2 | -90.00 | 3,152.9 | -613.4 | 932.0 | 852.9 | 79.07 | 11.787 | |
| 11,600.0 | 7,630.0 | 7,579.0 | 7,579.0 | 67.7 | 13.2 | -90.00 | 3,152.9 | -613.4 | 981.0 | 900.2 | 80.79 | 12.143 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | S26-T2N-R68W (Sullivan) - GRANT BROTHERS 23-43 (EXISTING) - SUNDANCE WELL - SURVEYS | | Offset Site Error: | | 0.0 ft | |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|-------------------|-------------------|---|------------|--------------------|--|--------|--|
| Survey Program: | | | | | | | | | | | | 177-Geolink MWD | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Total Uncertainty | Separation Factor | | | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | Axis | | | | | | |
| 13,800.0 | 7,630.0 | 7,838.4 | 7,535.6 | 105.7 | 36.8 | -87.50 | 6,768.5 | -179.3 | 981.6 | 847.7 | 133.94 | 7.329 | | | | | |
| 13,900.0 | 7,630.0 | 7,840.4 | 7,537.6 | 107.4 | 36.8 | -87.79 | 6,768.5 | -179.3 | 891.2 | 755.5 | 135.71 | 6.567 | | | | | |
| 14,000.0 | 7,630.0 | 7,842.5 | 7,539.7 | 109.2 | 36.8 | -88.08 | 6,768.6 | -179.3 | 803.0 | 665.5 | 137.48 | 5.841 | | | | | |
| 14,100.0 | 7,630.0 | 7,844.5 | 7,541.7 | 110.9 | 36.8 | -88.38 | 6,768.6 | -179.3 | 717.9 | 578.7 | 139.25 | 5.156 | | | | | |
| 14,200.0 | 7,630.0 | 7,846.6 | 7,543.8 | 112.7 | 36.8 | -88.67 | 6,768.7 | -179.3 | 637.2 | 496.2 | 141.01 | 4.519 | | | | | |
| 14,300.0 | 7,630.0 | 7,848.7 | 7,545.9 | 114.4 | 36.8 | -88.97 | 6,768.7 | -179.3 | 562.7 | 419.9 | 142.77 | 3.941 | CC, ES, SF | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 42-26 (EXISTING) - ENCANA WELL - Existing | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|--------------------|---------|
| Survey Program: 951-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 | |
| 9,700.0 | 7,630.0 | 7,645.3 | 7,580.2 | 35.8 | 18.9 | -89.62 | 2,679.9 | -55.7 | 949.0 | 897.6 | 51.41 | 18.458 | |
| 9,800.0 | 7,630.0 | 7,645.6 | 7,580.5 | 37.4 | 18.9 | -89.69 | 2,679.9 | -55.7 | 853.8 | 800.7 | 53.04 | 16.096 | |
| 9,900.0 | 7,630.0 | 7,645.9 | 7,580.8 | 39.0 | 18.9 | -89.76 | 2,679.9 | -55.7 | 759.8 | 705.1 | 54.68 | 13.895 | |
| 10,000.0 | 7,630.0 | 7,646.3 | 7,581.2 | 40.7 | 18.9 | -89.82 | 2,679.9 | -55.7 | 667.5 | 611.2 | 56.33 | 11.851 | |
| 10,100.0 | 7,630.0 | 7,646.6 | 7,581.5 | 42.3 | 18.9 | -89.89 | 2,679.9 | -55.7 | 577.9 | 519.9 | 57.98 | 9.966 | |
| 10,200.0 | 7,630.0 | 7,646.9 | 7,581.8 | 44.0 | 18.9 | -89.96 | 2,679.9 | -55.7 | 492.2 | 432.6 | 59.65 | 8.252 | |
| 10,300.0 | 7,630.0 | 7,647.3 | 7,582.1 | 45.6 | 18.9 | -90.03 | 2,679.9 | -55.7 | 413.1 | 351.8 | 61.32 | 6.736 | |
| 10,400.0 | 7,630.0 | 7,647.6 | 7,582.5 | 47.3 | 18.9 | -90.10 | 2,679.9 | -55.7 | 344.9 | 281.9 | 63.00 | 5.475 | |
| 10,500.0 | 7,630.0 | 7,647.9 | 7,582.8 | 49.0 | 18.9 | -90.16 | 2,679.9 | -55.7 | 295.5 | 230.8 | 64.68 | 4.568 | |
| 10,600.0 | 7,630.0 | 7,648.2 | 7,583.1 | 50.7 | 18.9 | -90.23 | 2,679.9 | -55.7 | 275.0 | 208.7 | 66.37 | 4.144 | |
| 10,608.3 | 7,630.0 | 7,648.3 | 7,583.1 | 50.8 | 18.9 | -90.24 | 2,679.9 | -55.7 | 274.9 | 208.4 | 66.51 | 4.134 CC, ES, SF | |
| 10,700.0 | 7,630.0 | 7,648.6 | 7,583.4 | 52.3 | 18.9 | -90.30 | 2,679.9 | -55.7 | 289.8 | 221.7 | 68.06 | 4.258 | |
| 10,800.0 | 7,630.0 | 7,648.9 | 7,583.8 | 54.0 | 18.9 | -90.37 | 2,679.9 | -55.7 | 335.1 | 265.4 | 69.75 | 4.805 | |
| 10,900.0 | 7,630.0 | 7,649.2 | 7,584.1 | 55.7 | 18.9 | -90.43 | 2,679.9 | -55.7 | 400.8 | 329.4 | 71.45 | 5.610 | |
| 11,000.0 | 7,630.0 | 7,649.5 | 7,584.4 | 57.4 | 18.9 | -90.50 | 2,679.9 | -55.7 | 478.5 | 405.4 | 73.15 | 6.542 | |
| 11,100.0 | 7,630.0 | 7,649.8 | 7,584.7 | 59.1 | 18.9 | -90.57 | 2,679.9 | -55.7 | 563.3 | 488.5 | 74.86 | 7.525 | |
| 11,200.0 | 7,630.0 | 7,650.2 | 7,585.0 | 60.8 | 18.9 | -90.63 | 2,679.9 | -55.7 | 652.4 | 575.9 | 76.57 | 8.521 | |
| 11,300.0 | 7,630.0 | 7,650.5 | 7,585.4 | 62.5 | 18.9 | -90.70 | 2,679.9 | -55.7 | 744.3 | 666.0 | 78.28 | 9.509 | |
| 11,400.0 | 7,630.0 | 7,650.8 | 7,585.7 | 64.2 | 18.9 | -90.76 | 2,679.9 | -55.7 | 838.1 | 758.1 | 79.99 | 10.477 | |
| 11,500.0 | 7,630.0 | 7,651.1 | 7,586.0 | 66.0 | 18.9 | -90.83 | 2,679.9 | -55.7 | 933.1 | 851.4 | 81.70 | 11.420 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - GRANT BROTHERS 44-23C (EXISTING) - SUNDANCE WELL - NO SURV | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|------------|
| Survey Program: 8150-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 |
| 12,300.0 | 7,630.0 | 7,591.0 | 7,591.0 | 79.7 | 13.2 | -90.00 | 5,317.4 | -94.8 | 996.6 | 903.7 | 92.87 | 10.731 | |
| 12,400.0 | 7,630.0 | 7,591.0 | 7,591.0 | 81.4 | 13.2 | -90.00 | 5,317.4 | -94.8 | 902.2 | 807.6 | 94.60 | 9.538 | |
| 12,500.0 | 7,630.0 | 7,591.0 | 7,591.0 | 83.2 | 13.2 | -90.00 | 5,317.4 | -94.8 | 809.2 | 712.9 | 96.33 | 8.401 | |
| 12,600.0 | 7,630.0 | 7,591.0 | 7,591.0 | 84.9 | 13.2 | -90.00 | 5,317.4 | -94.8 | 718.1 | 620.1 | 98.06 | 7.324 | |
| 12,700.0 | 7,630.0 | 7,591.0 | 7,591.0 | 86.6 | 13.2 | -90.00 | 5,317.4 | -94.8 | 629.7 | 529.9 | 99.79 | 6.311 | |
| 12,800.0 | 7,630.0 | 7,591.0 | 7,591.0 | 88.4 | 13.2 | -90.00 | 5,317.4 | -94.8 | 545.3 | 443.8 | 101.52 | 5.372 | |
| 12,900.0 | 7,630.0 | 7,591.0 | 7,591.0 | 90.1 | 13.2 | -90.00 | 5,317.4 | -94.8 | 467.1 | 363.9 | 103.26 | 4.524 | |
| 13,000.0 | 7,630.0 | 7,591.0 | 7,591.0 | 91.8 | 13.2 | -90.00 | 5,317.4 | -94.8 | 398.8 | 293.8 | 104.99 | 3.799 | |
| 13,100.0 | 7,630.0 | 7,591.0 | 7,591.0 | 93.6 | 13.2 | -90.00 | 5,317.4 | -94.8 | 346.3 | 239.5 | 106.72 | 3.244 | |
| 13,200.0 | 7,630.0 | 7,591.0 | 7,591.0 | 95.3 | 13.2 | -90.00 | 5,317.4 | -94.8 | 317.4 | 208.9 | 108.46 | 2.926 | |
| 13,245.8 | 7,630.0 | 7,591.0 | 7,591.0 | 96.1 | 13.2 | -90.00 | 5,317.4 | -94.8 | 314.1 | 204.8 | 109.26 | 2.874 | CC, ES, SF |
| 13,300.0 | 7,630.0 | 7,591.0 | 7,591.0 | 97.0 | 13.2 | -90.00 | 5,317.4 | -94.8 | 318.7 | 208.5 | 110.20 | 2.892 | |
| 13,400.0 | 7,630.0 | 7,591.0 | 7,591.0 | 98.8 | 13.2 | -90.00 | 5,317.4 | -94.8 | 349.9 | 237.9 | 111.93 | 3.126 | |
| 13,500.0 | 7,630.0 | 7,591.0 | 7,591.0 | 100.5 | 13.2 | -90.00 | 5,317.4 | -94.8 | 404.0 | 290.4 | 113.67 | 3.554 | |
| 13,600.0 | 7,630.0 | 7,591.0 | 7,591.0 | 102.2 | 13.2 | -90.00 | 5,317.4 | -94.8 | 473.4 | 358.0 | 115.41 | 4.102 | |
| 13,700.0 | 7,630.0 | 7,591.0 | 7,591.0 | 104.0 | 13.2 | -90.00 | 5,317.4 | -94.8 | 552.2 | 435.0 | 117.15 | 4.714 | |
| 13,800.0 | 7,630.0 | 7,591.0 | 7,591.0 | 105.7 | 13.2 | -90.00 | 5,317.4 | -94.8 | 637.0 | 518.1 | 118.89 | 5.358 | |
| 13,900.0 | 7,630.0 | 7,591.0 | 7,591.0 | 107.4 | 13.2 | -90.00 | 5,317.4 | -94.8 | 725.7 | 605.0 | 120.63 | 6.016 | |
| 14,000.0 | 7,630.0 | 7,591.0 | 7,591.0 | 109.2 | 13.2 | -90.00 | 5,317.4 | -94.8 | 817.0 | 694.6 | 122.37 | 6.676 | |
| 14,100.0 | 7,630.0 | 7,591.0 | 7,591.0 | 110.9 | 13.2 | -90.00 | 5,317.4 | -94.8 | 910.1 | 786.0 | 124.11 | 7.333 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 5120-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 | -31.83 | 93.3 | -57.9 | 115.9 | | | | | |
| 100.0 | 100.0 | 63.0 | 63.0 | 0.1 | 0.1 | -31.83 | 93.3 | -57.9 | 109.8 | 109.6 | 0.23 | 479.827 | | |
| 200.0 | 200.0 | 163.0 | 163.0 | 0.3 | 0.3 | -31.83 | 93.3 | -57.9 | 109.8 | 109.2 | 0.58 | 190.002 | | |
| 300.0 | 300.0 | 263.0 | 263.0 | 0.5 | 0.5 | -31.83 | 93.3 | -57.9 | 109.8 | 108.9 | 0.93 | 118.454 | | |
| 400.0 | 400.0 | 363.0 | 363.0 | 0.6 | 0.6 | -31.83 | 93.3 | -57.9 | 109.8 | 108.5 | 1.28 | 86.050 | | |
| 500.0 | 500.0 | 463.0 | 463.0 | 0.8 | 0.8 | -31.83 | 93.3 | -57.9 | 109.8 | 108.2 | 1.63 | 67.567 | | |
| 600.0 | 600.0 | 563.0 | 563.0 | 1.0 | 1.0 | -31.83 | 93.3 | -57.9 | 109.8 | 107.8 | 1.97 | 55.620 | | |
| 700.0 | 700.0 | 663.0 | 663.0 | 1.2 | 1.2 | -31.83 | 93.3 | -57.9 | 109.8 | 107.5 | 2.32 | 47.263 | | |
| 800.0 | 800.0 | 763.0 | 763.0 | 1.3 | 1.3 | -31.83 | 93.3 | -57.9 | 109.8 | 107.1 | 2.67 | 41.089 | | |
| 900.0 | 900.0 | 863.0 | 863.0 | 1.5 | 1.5 | -31.83 | 93.3 | -57.9 | 109.8 | 106.8 | 3.02 | 36.342 | | |
| 1,000.0 | 1,000.0 | 963.0 | 963.0 | 1.7 | 1.7 | -31.83 | 93.3 | -57.9 | 109.8 | 106.4 | 3.37 | 32.578 | CC, ES | |
| 1,100.0 | 1,100.0 | 1,063.0 | 1,063.0 | 1.9 | 1.9 | 169.35 | 93.3 | -57.9 | 111.5 | 107.8 | 3.72 | 29.993 | | |
| 1,200.0 | 1,199.8 | 1,162.8 | 1,162.8 | 2.0 | 2.0 | 169.81 | 93.3 | -57.9 | 116.7 | 112.6 | 4.06 | 28.717 | | |
| 1,300.0 | 1,299.5 | 1,262.5 | 1,262.5 | 2.2 | 2.2 | 170.48 | 93.3 | -57.9 | 125.1 | 120.7 | 4.41 | 28.389 | | |
| 1,400.0 | 1,399.0 | 1,362.0 | 1,362.0 | 2.4 | 2.4 | 171.14 | 93.3 | -57.9 | 134.3 | 129.6 | 4.75 | 28.252 | | |
| 1,500.0 | 1,498.6 | 1,461.6 | 1,461.6 | 2.6 | 2.6 | 171.72 | 93.3 | -57.9 | 143.6 | 138.5 | 5.10 | 28.138 | | |
| 1,600.0 | 1,598.1 | 1,561.1 | 1,561.1 | 2.9 | 2.7 | 172.22 | 93.3 | -57.9 | 152.9 | 147.4 | 5.45 | 28.040 | | |
| 1,700.0 | 1,697.7 | 1,660.7 | 1,660.7 | 3.1 | 2.9 | 172.67 | 93.3 | -57.9 | 162.2 | 156.4 | 5.80 | 27.957 | | |
| 1,800.0 | 1,797.3 | 1,760.3 | 1,760.3 | 3.3 | 3.1 | 173.07 | 93.3 | -57.9 | 171.5 | 165.3 | 6.15 | 27.885 | | |
| 1,900.0 | 1,896.8 | 1,859.8 | 1,859.8 | 3.5 | 3.2 | 173.43 | 93.3 | -57.9 | 180.8 | 174.3 | 6.50 | 27.821 | | |
| 2,000.0 | 1,996.4 | 1,959.4 | 1,959.4 | 3.7 | 3.4 | 173.75 | 93.3 | -57.9 | 190.1 | 183.2 | 6.85 | 27.766 | | |
| 2,100.0 | 2,095.9 | 2,058.9 | 2,058.9 | 4.0 | 3.6 | 174.05 | 93.3 | -57.9 | 199.4 | 192.2 | 7.19 | 27.717 | | |
| 2,200.0 | 2,195.5 | 2,158.5 | 2,158.5 | 4.2 | 3.8 | 174.31 | 93.3 | -57.9 | 208.7 | 201.2 | 7.54 | 27.673 | | |
| 2,300.0 | 2,295.1 | 2,258.1 | 2,258.1 | 4.4 | 3.9 | 174.56 | 93.3 | -57.9 | 218.1 | 210.2 | 7.89 | 27.634 | | |
| 2,400.0 | 2,394.6 | 2,357.6 | 2,357.6 | 4.7 | 4.1 | 174.78 | 93.3 | -57.9 | 227.4 | 219.1 | 8.24 | 27.598 | | |
| 2,500.0 | 2,494.2 | 2,457.2 | 2,457.2 | 4.9 | 4.3 | 174.99 | 93.3 | -57.9 | 236.7 | 228.1 | 8.59 | 27.566 | | |
| 2,600.0 | 2,593.7 | 2,556.7 | 2,556.7 | 5.1 | 4.5 | 175.18 | 93.3 | -57.9 | 246.1 | 237.1 | 8.94 | 27.537 | | |
| 2,700.0 | 2,693.3 | 2,656.3 | 2,656.3 | 5.4 | 4.6 | 175.35 | 93.3 | -57.9 | 255.4 | 246.1 | 9.28 | 27.510 | | |
| 2,800.0 | 2,792.9 | 2,755.9 | 2,755.9 | 5.6 | 4.8 | 175.52 | 93.3 | -57.9 | 264.7 | 255.1 | 9.63 | 27.486 | | |
| 2,900.0 | 2,892.4 | 2,855.4 | 2,855.4 | 5.8 | 5.0 | 175.67 | 93.3 | -57.9 | 274.1 | 264.1 | 9.98 | 27.464 | | |
| 3,000.0 | 2,992.0 | 2,955.0 | 2,955.0 | 6.1 | 5.2 | 175.81 | 93.3 | -57.9 | 283.4 | 273.1 | 10.33 | 27.443 | | |
| 3,100.0 | 3,091.5 | 3,054.5 | 3,054.5 | 6.3 | 5.3 | 175.95 | 93.3 | -57.9 | 292.8 | 282.1 | 10.68 | 27.424 | | |
| 3,200.0 | 3,191.1 | 3,154.1 | 3,154.1 | 6.5 | 5.5 | 176.07 | 93.3 | -57.9 | 302.1 | 291.1 | 11.02 | 27.406 | | |
| 3,300.0 | 3,290.7 | 3,253.7 | 3,253.7 | 6.8 | 5.7 | 176.19 | 93.3 | -57.9 | 311.5 | 300.1 | 11.37 | 27.389 | | |
| 3,400.0 | 3,390.2 | 3,353.2 | 3,353.2 | 7.0 | 5.9 | 176.30 | 93.3 | -57.9 | 320.8 | 309.1 | 11.72 | 27.374 | | |
| 3,500.0 | 3,489.8 | 3,452.8 | 3,452.8 | 7.2 | 6.0 | 176.41 | 93.3 | -57.9 | 330.2 | 318.1 | 12.07 | 27.359 | | |
| 3,600.0 | 3,589.3 | 3,552.3 | 3,552.3 | 7.5 | 6.2 | 176.51 | 93.3 | -57.9 | 339.5 | 327.1 | 12.42 | 27.346 | | |
| 3,700.0 | 3,688.9 | 3,651.9 | 3,651.9 | 7.7 | 6.4 | 176.60 | 93.3 | -57.9 | 348.9 | 336.1 | 12.76 | 27.333 | | |
| 3,800.0 | 3,788.5 | 3,751.5 | 3,751.5 | 7.9 | 6.5 | 176.69 | 93.3 | -57.9 | 358.2 | 345.1 | 13.11 | 27.321 | | |
| 3,900.0 | 3,888.0 | 3,851.0 | 3,851.0 | 8.2 | 6.7 | 176.77 | 93.3 | -57.9 | 367.6 | 354.1 | 13.46 | 27.310 | | |
| 4,000.0 | 3,987.6 | 3,950.6 | 3,950.6 | 8.4 | 6.9 | 176.85 | 93.3 | -57.9 | 376.9 | 363.1 | 13.81 | 27.299 | | |
| 4,100.0 | 4,087.1 | 4,050.1 | 4,050.1 | 8.6 | 7.1 | 176.93 | 93.3 | -57.9 | 386.3 | 372.1 | 14.16 | 27.289 | | |
| 4,200.0 | 4,186.7 | 4,149.7 | 4,149.7 | 8.9 | 7.2 | 177.00 | 93.3 | -57.9 | 395.7 | 381.1 | 14.50 | 27.279 | | |
| 4,300.0 | 4,286.3 | 4,249.3 | 4,249.3 | 9.1 | 7.4 | 177.07 | 93.3 | -57.9 | 405.0 | 390.2 | 14.85 | 27.270 | | |
| 4,400.0 | 4,385.8 | 4,348.8 | 4,348.8 | 9.4 | 7.6 | 177.14 | 93.3 | -57.9 | 414.4 | 399.2 | 15.20 | 27.262 | | |
| 4,500.0 | 4,485.4 | 4,448.4 | 4,448.4 | 9.6 | 7.8 | 177.20 | 93.3 | -57.9 | 423.7 | 408.2 | 15.55 | 27.254 | | |
| 4,600.0 | 4,584.9 | 4,547.9 | 4,547.9 | 9.8 | 7.9 | 177.26 | 93.3 | -57.9 | 433.1 | 417.2 | 15.90 | 27.246 | | |
| 4,700.0 | 4,684.5 | 4,647.5 | 4,647.5 | 10.1 | 8.1 | 177.32 | 93.3 | -57.9 | 442.4 | 426.2 | 16.24 | 27.238 | | |
| 4,800.0 | 4,784.1 | 4,747.1 | 4,747.1 | 10.3 | 8.3 | 177.38 | 93.3 | -57.9 | 451.8 | 435.2 | 16.59 | 27.231 | | |
| 4,900.0 | 4,883.6 | 4,846.6 | 4,846.6 | 10.5 | 8.5 | 177.43 | 93.3 | -57.9 | 461.2 | 444.2 | 16.94 | 27.225 | | |
| 5,000.0 | 4,983.2 | 4,946.2 | 4,946.2 | 10.8 | 8.6 | 177.48 | 93.3 | -57.9 | 470.5 | 453.2 | 17.29 | 27.218 | | |
| 5,100.0 | 5,082.7 | 5,045.7 | 5,045.7 | 11.0 | 8.8 | 177.53 | 93.3 | -57.9 | 479.9 | 462.3 | 17.64 | 27.212 | SF | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - MEREDITH 1 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 5120-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 | 5,182.3 | 5,120.0 | 5,120.0 | 11.3 | 8.9 | 177.57 | 93.3 | -57.9 | 489.9 | 472.0 | 17.94 | 27.309 | | |
| 5,300.0 | 5,281.9 | 5,120.0 | 5,120.0 | 11.5 | 8.9 | 177.57 | 93.3 | -57.9 | 514.0 | 495.9 | 18.11 | 28.376 | | |
| 5,400.0 | 5,381.4 | 5,120.0 | 5,120.0 | 11.7 | 8.9 | 177.57 | 93.3 | -57.9 | 555.3 | 537.1 | 18.29 | 30.365 | | |
| 5,500.0 | 5,481.0 | 5,120.0 | 5,120.0 | 12.0 | 8.9 | 177.57 | 93.3 | -57.9 | 610.4 | 592.0 | 18.46 | 33.060 | | |
| 5,600.0 | 5,580.5 | 5,120.0 | 5,120.0 | 12.2 | 8.9 | 177.57 | 93.3 | -57.9 | 675.9 | 657.2 | 18.64 | 36.262 | | |
| 5,700.0 | 5,680.1 | 5,120.0 | 5,120.0 | 12.4 | 8.9 | 177.57 | 93.3 | -57.9 | 749.0 | 730.2 | 18.81 | 39.812 | | |
| 5,800.0 | 5,779.7 | 5,120.0 | 5,120.0 | 12.7 | 8.9 | 177.57 | 93.3 | -57.9 | 827.8 | 808.8 | 18.99 | 43.594 | | |
| 5,900.0 | 5,879.2 | 5,120.0 | 5,120.0 | 12.9 | 8.9 | 177.57 | 93.3 | -57.9 | 910.7 | 891.6 | 19.16 | 47.524 | | |
| 6,000.0 | 5,978.8 | 5,120.0 | 5,120.0 | 13.2 | 8.9 | 177.57 | 93.3 | -57.9 | 996.8 | 977.5 | 19.34 | 51.546 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 1 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | Offset Site Error: 0.0 ft | | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|--------|---------|
| Survey Program: 8200-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 | | |
| | | | | | | | | | | | | | | |
| 8,700.0 | 7,630.0 | 7,592.0 | 7,592.0 | 20.9 | 13.3 | -90.00 | 1,443.0 | -516.3 | 995.9 | 962.1 | 33.76 | 29.496 | | |
| 8,800.0 | 7,630.0 | 7,592.0 | 7,592.0 | 22.2 | 13.3 | -90.00 | 1,443.0 | -516.3 | 931.4 | 896.3 | 35.10 | 26.534 | | |
| 8,900.0 | 7,630.0 | 7,592.0 | 7,592.0 | 23.6 | 13.3 | -90.00 | 1,443.0 | -516.3 | 873.7 | 837.2 | 36.50 | 23.937 | | |
| 9,000.0 | 7,630.0 | 7,592.0 | 7,592.0 | 25.0 | 13.3 | -90.00 | 1,443.0 | -516.3 | 824.0 | 786.1 | 37.94 | 21.720 | | |
| 9,100.0 | 7,630.0 | 7,592.0 | 7,592.0 | 26.4 | 13.3 | -90.00 | 1,443.0 | -516.3 | 784.0 | 744.6 | 39.42 | 19.892 | | |
| 9,200.0 | 7,630.0 | 7,592.0 | 7,592.0 | 27.9 | 13.3 | -90.00 | 1,443.0 | -516.3 | 755.3 | 714.4 | 40.93 | 18.455 | | |
| 9,300.0 | 7,630.0 | 7,592.0 | 7,592.0 | 29.5 | 13.3 | -90.00 | 1,443.0 | -516.3 | 739.0 | 696.6 | 42.46 | 17.404 | | |
| 9,371.4 | 7,630.0 | 7,592.0 | 7,592.0 | 30.6 | 13.3 | -90.00 | 1,443.0 | -516.3 | 735.6 | 692.0 | 43.58 | 16.880 | CC, ES | |
| 9,400.0 | 7,630.0 | 7,592.0 | 7,592.0 | 31.0 | 13.3 | -90.00 | 1,443.0 | -516.3 | 736.1 | 692.1 | 44.03 | 16.721 | | |
| 9,500.0 | 7,630.0 | 7,592.0 | 7,592.0 | 32.6 | 13.3 | -90.00 | 1,443.0 | -516.3 | 746.8 | 701.1 | 45.61 | 16.374 | | |
| 9,600.0 | 7,630.0 | 7,592.0 | 7,592.0 | 34.2 | 13.3 | -90.00 | 1,443.0 | -516.3 | 770.3 | 723.1 | 47.20 | 16.319 | SF | |
| 9,700.0 | 7,630.0 | 7,592.0 | 7,592.0 | 35.8 | 13.3 | -90.00 | 1,443.0 | -516.3 | 805.7 | 756.9 | 48.82 | 16.504 | | |
| 9,800.0 | 7,630.0 | 7,592.0 | 7,592.0 | 37.4 | 13.3 | -90.00 | 1,443.0 | -516.3 | 851.4 | 800.9 | 50.44 | 16.878 | | |
| 9,900.0 | 7,630.0 | 7,592.0 | 7,592.0 | 39.0 | 13.3 | -90.00 | 1,443.0 | -516.3 | 905.8 | 853.8 | 52.08 | 17.394 | | |
| 10,000.0 | 7,630.0 | 7,592.0 | 7,592.0 | 40.7 | 13.3 | -90.00 | 1,443.0 | -516.3 | 967.6 | 913.9 | 53.73 | 18.010 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 8192-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 | -107.18 | -14.5 | -47.0 | 60.4 | | | | | |
| 100.0 | 100.0 | 65.0 | 65.0 | 0.1 | 0.1 | -107.18 | -14.5 | -47.0 | 49.2 | 49.0 | 0.23 | 211.728 | | |
| 200.0 | 200.0 | 165.0 | 165.0 | 0.3 | 0.3 | -107.18 | -14.5 | -47.0 | 49.2 | 48.6 | 0.58 | 84.608 | | |
| 300.0 | 300.0 | 265.0 | 265.0 | 0.5 | 0.5 | -107.18 | -14.5 | -47.0 | 49.2 | 48.3 | 0.93 | 52.867 | | |
| 400.0 | 400.0 | 365.0 | 365.0 | 0.6 | 0.6 | -107.18 | -14.5 | -47.0 | 49.2 | 47.9 | 1.28 | 38.444 | | |
| 500.0 | 500.0 | 465.0 | 465.0 | 0.8 | 0.8 | -107.18 | -14.5 | -47.0 | 49.2 | 47.6 | 1.63 | 30.204 | | |
| 600.0 | 600.0 | 565.0 | 565.0 | 1.0 | 1.0 | -107.18 | -14.5 | -47.0 | 49.2 | 47.2 | 1.98 | 24.873 | | |
| 700.0 | 700.0 | 665.0 | 665.0 | 1.2 | 1.2 | -107.18 | -14.5 | -47.0 | 49.2 | 46.9 | 2.33 | 21.142 | | |
| 800.0 | 800.0 | 765.0 | 765.0 | 1.3 | 1.3 | -107.18 | -14.5 | -47.0 | 49.2 | 46.5 | 2.68 | 18.384 | | |
| 900.0 | 900.0 | 865.0 | 865.0 | 1.5 | 1.5 | -107.18 | -14.5 | -47.0 | 49.2 | 46.2 | 3.02 | 16.262 | | |
| 1,000.0 | 1,000.0 | 965.0 | 965.0 | 1.7 | 1.7 | -107.18 | -14.5 | -47.0 | 49.2 | 45.8 | 3.37 | 14.580 CC | | |
| 1,100.0 | 1,100.0 | 1,065.0 | 1,065.0 | 1.9 | 1.9 | 95.85 | -14.5 | -47.0 | 49.3 | 45.6 | 3.72 | 13.249 ES | | |
| 1,200.0 | 1,199.8 | 1,164.8 | 1,164.8 | 2.0 | 2.0 | 101.79 | -14.5 | -47.0 | 50.1 | 46.1 | 4.08 | 12.292 | | |
| 1,300.0 | 1,299.5 | 1,264.5 | 1,264.5 | 2.2 | 2.2 | 110.89 | -14.5 | -47.0 | 52.6 | 48.1 | 4.44 | 11.832 | | |
| 1,400.0 | 1,399.0 | 1,364.0 | 1,364.0 | 2.4 | 2.4 | 119.76 | -14.5 | -47.0 | 56.6 | 51.8 | 4.81 | 11.775 | | |
| 1,500.0 | 1,498.6 | 1,463.6 | 1,463.6 | 2.6 | 2.6 | 127.30 | -14.5 | -47.0 | 61.8 | 56.6 | 5.17 | 11.958 | | |
| 1,600.0 | 1,598.1 | 1,563.1 | 1,563.1 | 2.9 | 2.7 | 133.59 | -14.5 | -47.0 | 67.9 | 62.4 | 5.53 | 12.288 | | |
| 1,700.0 | 1,697.7 | 1,662.7 | 1,662.7 | 3.1 | 2.9 | 138.79 | -14.5 | -47.0 | 74.7 | 68.8 | 5.88 | 12.701 | | |
| 1,800.0 | 1,797.3 | 1,762.3 | 1,762.3 | 3.3 | 3.1 | 143.10 | -14.5 | -47.0 | 82.0 | 75.7 | 6.23 | 13.154 | | |
| 1,900.0 | 1,896.8 | 1,861.8 | 1,861.8 | 3.5 | 3.2 | 146.69 | -14.5 | -47.0 | 89.7 | 83.1 | 6.58 | 13.622 | | |
| 2,000.0 | 1,996.4 | 1,961.4 | 1,961.4 | 3.7 | 3.4 | 149.71 | -14.5 | -47.0 | 97.6 | 90.7 | 6.93 | 14.088 | | |
| 2,100.0 | 2,095.9 | 2,060.9 | 2,060.9 | 4.0 | 3.6 | 152.27 | -14.5 | -47.0 | 105.8 | 98.6 | 7.28 | 14.543 | | |
| 2,200.0 | 2,195.5 | 2,160.5 | 2,160.5 | 4.2 | 3.8 | 154.45 | -14.5 | -47.0 | 114.2 | 106.6 | 7.62 | 14.981 | | |
| 2,300.0 | 2,295.1 | 2,260.1 | 2,260.1 | 4.4 | 3.9 | 156.34 | -14.5 | -47.0 | 122.8 | 114.8 | 7.97 | 15.400 | | |
| 2,400.0 | 2,394.6 | 2,359.6 | 2,359.6 | 4.7 | 4.1 | 157.98 | -14.5 | -47.0 | 131.4 | 123.1 | 8.32 | 15.798 | | |
| 2,500.0 | 2,494.2 | 2,459.2 | 2,459.2 | 4.9 | 4.3 | 159.41 | -14.5 | -47.0 | 140.1 | 131.5 | 8.66 | 16.175 | | |
| 2,600.0 | 2,593.7 | 2,558.7 | 2,558.7 | 5.1 | 4.5 | 160.68 | -14.5 | -47.0 | 148.9 | 139.9 | 9.01 | 16.532 | | |
| 2,700.0 | 2,693.3 | 2,658.3 | 2,658.3 | 5.4 | 4.6 | 161.81 | -14.5 | -47.0 | 157.8 | 148.5 | 9.36 | 16.869 | | |
| 2,800.0 | 2,792.9 | 2,757.9 | 2,757.9 | 5.6 | 4.8 | 162.81 | -14.5 | -47.0 | 166.8 | 157.0 | 9.70 | 17.188 | | |
| 2,900.0 | 2,892.4 | 2,857.4 | 2,857.4 | 5.8 | 5.0 | 163.71 | -14.5 | -47.0 | 175.7 | 165.7 | 10.05 | 17.489 | | |
| 3,000.0 | 2,992.0 | 2,957.0 | 2,957.0 | 6.1 | 5.2 | 164.53 | -14.5 | -47.0 | 184.7 | 174.4 | 10.39 | 17.774 | | |
| 3,100.0 | 3,091.5 | 3,056.5 | 3,056.5 | 6.3 | 5.3 | 165.27 | -14.5 | -47.0 | 193.8 | 183.1 | 10.74 | 18.044 | | |
| 3,200.0 | 3,191.1 | 3,156.1 | 3,156.1 | 6.5 | 5.5 | 165.94 | -14.5 | -47.0 | 202.9 | 191.8 | 11.09 | 18.299 | | |
| 3,300.0 | 3,290.7 | 3,255.7 | 3,255.7 | 6.8 | 5.7 | 166.56 | -14.5 | -47.0 | 212.0 | 200.5 | 11.43 | 18.541 | | |
| 3,400.0 | 3,390.2 | 3,355.2 | 3,355.2 | 7.0 | 5.9 | 167.12 | -14.5 | -47.0 | 221.1 | 209.3 | 11.78 | 18.771 | | |
| 3,500.0 | 3,489.8 | 3,454.8 | 3,454.8 | 7.2 | 6.0 | 167.64 | -14.5 | -47.0 | 230.2 | 218.1 | 12.13 | 18.989 | | |
| 3,600.0 | 3,589.3 | 3,554.3 | 3,554.3 | 7.5 | 6.2 | 168.12 | -14.5 | -47.0 | 239.4 | 226.9 | 12.47 | 19.196 | | |
| 3,700.0 | 3,688.9 | 3,653.9 | 3,653.9 | 7.7 | 6.4 | 168.56 | -14.5 | -47.0 | 248.6 | 235.8 | 12.82 | 19.393 | | |
| 3,800.0 | 3,788.5 | 3,753.5 | 3,753.5 | 7.9 | 6.6 | 168.98 | -14.5 | -47.0 | 257.8 | 244.6 | 13.17 | 19.580 | | |
| 3,900.0 | 3,888.0 | 3,853.0 | 3,853.0 | 8.2 | 6.7 | 169.36 | -14.5 | -47.0 | 267.0 | 253.5 | 13.51 | 19.759 | | |
| 4,000.0 | 3,987.6 | 3,952.6 | 3,952.6 | 8.4 | 6.9 | 169.72 | -14.5 | -47.0 | 276.2 | 262.3 | 13.86 | 19.930 | | |
| 4,100.0 | 4,087.1 | 4,052.1 | 4,052.1 | 8.6 | 7.1 | 170.06 | -14.5 | -47.0 | 285.4 | 271.2 | 14.21 | 20.093 | | |
| 4,200.0 | 4,186.7 | 4,151.7 | 4,151.7 | 8.9 | 7.2 | 170.37 | -14.5 | -47.0 | 294.7 | 280.1 | 14.55 | 20.248 | | |
| 4,300.0 | 4,286.3 | 4,251.3 | 4,251.3 | 9.1 | 7.4 | 170.67 | -14.5 | -47.0 | 303.9 | 289.0 | 14.90 | 20.397 | | |
| 4,400.0 | 4,385.8 | 4,350.8 | 4,350.8 | 9.4 | 7.6 | 170.94 | -14.5 | -47.0 | 313.2 | 297.9 | 15.25 | 20.540 | | |
| 4,500.0 | 4,485.4 | 4,450.4 | 4,450.4 | 9.6 | 7.8 | 171.21 | -14.5 | -47.0 | 322.4 | 306.8 | 15.59 | 20.677 | | |
| 4,600.0 | 4,584.9 | 4,549.9 | 4,549.9 | 9.8 | 7.9 | 171.45 | -14.5 | -47.0 | 331.7 | 315.7 | 15.94 | 20.808 | | |
| 4,700.0 | 4,684.5 | 4,649.5 | 4,649.5 | 10.1 | 8.1 | 171.69 | -14.5 | -47.0 | 341.0 | 324.7 | 16.29 | 20.934 | | |
| 4,800.0 | 4,784.1 | 4,749.1 | 4,749.1 | 10.3 | 8.3 | 171.91 | -14.5 | -47.0 | 350.2 | 333.6 | 16.63 | 21.054 | | |
| 4,900.0 | 4,883.6 | 4,848.6 | 4,848.6 | 10.5 | 8.5 | 172.12 | -14.5 | -47.0 | 359.5 | 342.5 | 16.98 | 21.170 | | |
| 5,000.0 | 4,983.2 | 4,948.2 | 4,948.2 | 10.8 | 8.6 | 172.32 | -14.5 | -47.0 | 368.8 | 351.5 | 17.33 | 21.282 | | |
| 5,100.0 | 5,082.7 | 5,047.7 | 5,047.7 | 11.0 | 8.8 | 172.51 | -14.5 | -47.0 | 378.1 | 360.4 | 17.68 | 21.390 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 44-26 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|---------------------|----------------------|--------------------|--------|
| Survey Program: 8192-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor | | |
| 5,200.0 | 5,182.3 | 5,147.3 | 5,147.3 | 11.3 | 9.0 | 172.69 | -14.5 | -47.0 | 387.4 | 369.3 | 18.02 | 21.493 | | |
| 5,300.0 | 5,281.9 | 5,246.9 | 5,246.9 | 11.5 | 9.2 | 172.86 | -14.5 | -47.0 | 396.7 | 378.3 | 18.37 | 21.593 | | |
| 5,400.0 | 5,381.4 | 5,346.4 | 5,346.4 | 11.7 | 9.3 | 173.03 | -14.5 | -47.0 | 406.0 | 387.3 | 18.72 | 21.689 | | |
| 5,500.0 | 5,481.0 | 5,446.0 | 5,446.0 | 12.0 | 9.5 | 173.18 | -14.5 | -47.0 | 415.3 | 396.2 | 19.06 | 21.782 | | |
| 5,600.0 | 5,580.5 | 5,545.5 | 5,545.5 | 12.2 | 9.7 | 173.33 | -14.5 | -47.0 | 424.6 | 405.2 | 19.41 | 21.872 | | |
| 5,700.0 | 5,680.1 | 5,645.1 | 5,645.1 | 12.4 | 9.9 | 173.48 | -14.5 | -47.0 | 433.9 | 414.1 | 19.76 | 21.958 | | |
| 5,800.0 | 5,779.7 | 5,744.7 | 5,744.7 | 12.7 | 10.0 | 173.61 | -14.5 | -47.0 | 443.2 | 423.1 | 20.11 | 22.042 | | |
| 5,900.0 | 5,879.2 | 5,844.2 | 5,844.2 | 12.9 | 10.2 | 173.75 | -14.5 | -47.0 | 452.5 | 432.1 | 20.45 | 22.123 | | |
| 6,000.0 | 5,978.8 | 5,943.8 | 5,943.8 | 13.2 | 10.4 | 173.87 | -14.5 | -47.0 | 461.8 | 441.0 | 20.80 | 22.202 | | |
| 6,100.0 | 6,078.3 | 6,043.3 | 6,043.3 | 13.4 | 10.5 | 173.99 | -14.5 | -47.0 | 471.1 | 450.0 | 21.15 | 22.277 | | |
| 6,200.0 | 6,177.9 | 6,142.9 | 6,142.9 | 13.6 | 10.7 | 174.11 | -14.5 | -47.0 | 480.5 | 459.0 | 21.50 | 22.351 | | |
| 6,300.0 | 6,277.5 | 6,242.5 | 6,242.5 | 13.9 | 10.9 | 174.22 | -14.5 | -47.0 | 489.8 | 467.9 | 21.84 | 22.422 | | |
| 6,400.0 | 6,377.0 | 6,342.0 | 6,342.0 | 14.1 | 11.1 | 174.33 | -14.5 | -47.0 | 499.1 | 476.9 | 22.19 | 22.491 | | |
| 6,500.0 | 6,476.6 | 6,441.6 | 6,441.6 | 14.3 | 11.2 | 174.44 | -14.5 | -47.0 | 508.4 | 485.9 | 22.54 | 22.558 | | |
| 6,600.0 | 6,576.2 | 6,541.2 | 6,541.2 | 14.6 | 11.4 | 174.54 | -14.5 | -47.0 | 517.8 | 494.9 | 22.89 | 22.623 | | |
| 6,700.0 | 6,675.7 | 6,640.7 | 6,640.7 | 14.8 | 11.6 | 174.63 | -14.5 | -47.0 | 527.1 | 503.9 | 23.23 | 22.686 | | |
| 6,800.0 | 6,775.3 | 6,740.3 | 6,740.3 | 15.1 | 11.8 | 174.73 | -14.5 | -47.0 | 536.4 | 512.8 | 23.58 | 22.748 | | |
| 6,900.0 | 6,874.8 | 6,839.8 | 6,839.8 | 15.3 | 11.9 | 174.82 | -14.5 | -47.0 | 545.8 | 521.8 | 23.93 | 22.807 | | |
| 7,000.0 | 6,974.4 | 6,939.4 | 6,939.4 | 15.5 | 12.1 | 174.91 | -14.5 | -47.0 | 555.1 | 530.8 | 24.28 | 22.865 | | |
| 7,100.0 | 7,074.1 | 7,039.1 | 7,039.1 | 15.7 | 12.3 | -75.22 | -14.5 | -47.0 | 560.9 | 536.3 | 24.63 | 22.777 | | |
| 7,200.0 | 7,173.3 | 7,138.3 | 7,138.3 | 15.7 | 12.5 | -36.88 | -14.5 | -47.0 | 552.0 | 527.4 | 24.66 | 22.383 | | |
| 7,300.0 | 7,268.9 | 7,233.9 | 7,233.9 | 15.5 | 12.6 | -35.58 | -14.5 | -47.0 | 528.2 | 503.8 | 24.41 | 21.641 | | |
| 7,400.0 | 7,358.1 | 7,323.1 | 7,323.1 | 15.3 | 12.8 | -39.15 | -14.5 | -47.0 | 490.9 | 466.8 | 24.08 | 20.384 | | |
| 7,500.0 | 7,438.1 | 7,403.1 | 7,403.1 | 14.9 | 12.9 | -46.40 | -14.5 | -47.0 | 442.8 | 418.7 | 24.09 | 18.382 | | |
| 7,600.0 | 7,506.6 | 7,471.6 | 7,471.6 | 14.6 | 13.0 | -57.34 | -14.5 | -47.0 | 387.9 | 363.1 | 24.79 | 15.647 | | |
| 7,700.0 | 7,561.5 | 7,526.5 | 7,526.5 | 14.3 | 13.1 | -70.70 | -14.5 | -47.0 | 332.6 | 306.7 | 25.94 | 12.826 | | |
| 7,800.0 | 7,601.0 | 7,566.0 | 7,566.0 | 14.2 | 13.2 | -82.76 | -14.5 | -47.0 | 287.5 | 260.8 | 26.70 | 10.766 | | |
| 7,900.0 | 7,624.0 | 7,589.0 | 7,589.0 | 14.3 | 13.2 | -89.62 | -14.5 | -47.0 | 266.4 | 239.4 | 26.97 | 9.875 | | |
| 7,912.6 | 7,625.7 | 7,590.7 | 7,590.7 | 14.3 | 13.2 | -90.00 | -14.5 | -47.0 | 266.1 | 239.1 | 27.01 | 9.851 SF | | |
| 8,000.0 | 7,630.0 | 7,595.0 | 7,595.0 | 14.5 | 13.3 | -90.00 | -14.5 | -47.0 | 279.8 | 252.6 | 27.26 | 10.266 | | |
| 8,100.0 | 7,630.0 | 7,595.0 | 7,595.0 | 15.0 | 13.3 | -90.00 | -14.5 | -47.0 | 324.8 | 297.1 | 27.74 | 11.712 | | |
| 8,200.0 | 7,630.0 | 7,595.0 | 7,595.0 | 15.6 | 13.3 | -90.00 | -14.5 | -47.0 | 390.8 | 362.4 | 28.40 | 13.759 | | |
| 8,300.0 | 7,630.0 | 7,595.0 | 7,595.0 | 16.4 | 13.3 | -90.00 | -14.5 | -47.0 | 469.0 | 439.8 | 29.24 | 16.041 | | |
| 8,400.0 | 7,630.0 | 7,595.0 | 7,595.0 | 17.4 | 13.3 | -90.00 | -14.5 | -47.0 | 554.3 | 524.0 | 30.21 | 18.345 | | |
| 8,500.0 | 7,630.0 | 7,595.0 | 7,595.0 | 18.5 | 13.3 | -90.00 | -14.5 | -47.0 | 643.8 | 612.5 | 31.31 | 20.563 | | |
| 8,600.0 | 7,630.0 | 7,595.0 | 7,595.0 | 19.6 | 13.3 | -90.00 | -14.5 | -47.0 | 736.0 | 703.5 | 32.50 | 22.647 | | |
| 8,700.0 | 7,630.0 | 7,595.0 | 7,595.0 | 20.9 | 13.3 | -90.00 | -14.5 | -47.0 | 830.0 | 796.2 | 33.77 | 24.578 | | |
| 8,800.0 | 7,630.0 | 7,595.0 | 7,595.0 | 22.2 | 13.3 | -90.00 | -14.5 | -47.0 | 925.3 | 890.1 | 35.11 | 26.354 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4A-26H-P268 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -89.77 | 0.4 | -100.1 | 100.1 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -89.77 | 0.4 | -100.1 | 100.1 | 99.9 | 0.24 | 424.016 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -89.77 | 0.4 | -100.1 | 100.1 | 99.6 | 0.58 | 171.277 CC, ES | | |
| 300.0 | 300.0 | 295.8 | 295.7 | 0.5 | 0.5 | -90.02 | 0.0 | -101.7 | 101.7 | 100.8 | 0.93 | 109.450 | | |
| 400.0 | 400.0 | 392.3 | 392.1 | 0.6 | 0.7 | -90.76 | -1.4 | -106.3 | 106.6 | 105.3 | 1.28 | 83.279 | | |
| 500.0 | 500.0 | 488.3 | 487.8 | 0.8 | 0.9 | -91.84 | -3.7 | -114.1 | 114.7 | 113.0 | 1.64 | 69.990 | | |
| 600.0 | 600.0 | 583.8 | 582.6 | 1.0 | 1.1 | -93.12 | -6.8 | -124.8 | 126.0 | 124.0 | 2.01 | 62.804 | | |
| 700.0 | 700.0 | 678.3 | 676.1 | 1.2 | 1.4 | -94.46 | -10.8 | -138.4 | 140.7 | 138.3 | 2.39 | 58.980 | | |
| 800.0 | 800.0 | 771.9 | 768.1 | 1.3 | 1.8 | -95.75 | -15.6 | -154.7 | 158.6 | 155.8 | 2.77 | 57.189 | | |
| 900.0 | 900.0 | 864.2 | 858.2 | 1.5 | 2.1 | -96.94 | -21.2 | -173.7 | 179.7 | 176.5 | 3.17 | 56.700 SF | | |
| 1,000.0 | 1,000.0 | 955.1 | 946.4 | 1.7 | 2.6 | -98.00 | -27.4 | -195.1 | 203.9 | 200.3 | 3.57 | 57.080 | | |
| 1,100.0 | 1,100.0 | 1,046.5 | 1,034.3 | 1.9 | 3.0 | 101.94 | -34.5 | -219.2 | 231.5 | 227.8 | 3.66 | 63.277 | | |
| 1,200.0 | 1,199.8 | 1,142.2 | 1,126.1 | 2.0 | 3.5 | 101.68 | -42.1 | -245.0 | 260.4 | 256.4 | 4.01 | 64.972 | | |
| 1,300.0 | 1,299.5 | 1,237.6 | 1,217.7 | 2.2 | 4.0 | 102.19 | -49.6 | -270.8 | 290.1 | 285.7 | 4.38 | 66.272 | | |
| 1,400.0 | 1,399.0 | 1,332.9 | 1,309.1 | 2.4 | 4.5 | 103.10 | -57.2 | -296.6 | 320.0 | 315.3 | 4.76 | 67.167 | | |
| 1,500.0 | 1,498.6 | 1,428.3 | 1,400.6 | 2.6 | 5.0 | 103.86 | -64.7 | -322.4 | 350.0 | 344.8 | 5.16 | 67.817 | | |
| 1,600.0 | 1,598.1 | 1,523.6 | 1,492.0 | 2.9 | 5.5 | 104.50 | -72.3 | -348.2 | 380.0 | 374.5 | 5.56 | 68.291 | | |
| 1,700.0 | 1,697.7 | 1,618.9 | 1,583.5 | 3.1 | 6.0 | 105.04 | -79.8 | -373.9 | 410.1 | 404.1 | 5.97 | 68.638 | | |
| 1,800.0 | 1,797.3 | 1,714.2 | 1,674.9 | 3.3 | 6.5 | 105.51 | -87.4 | -399.7 | 440.2 | 433.8 | 6.39 | 68.892 | | |
| 1,900.0 | 1,896.8 | 1,809.5 | 1,766.3 | 3.5 | 7.1 | 105.92 | -94.9 | -425.5 | 470.3 | 463.5 | 6.81 | 69.077 | | |
| 2,000.0 | 1,996.4 | 1,904.8 | 1,857.8 | 3.7 | 7.6 | 106.28 | -102.5 | -451.3 | 500.4 | 493.2 | 7.23 | 69.211 | | |
| 2,100.0 | 2,095.9 | 2,000.1 | 1,949.2 | 4.0 | 8.1 | 106.60 | -110.1 | -477.0 | 530.5 | 522.9 | 7.65 | 69.307 | | |
| 2,200.0 | 2,195.5 | 2,095.4 | 2,040.7 | 4.2 | 8.6 | 106.88 | -117.6 | -502.8 | 560.7 | 552.6 | 8.08 | 69.374 | | |
| 2,300.0 | 2,295.1 | 2,190.7 | 2,132.1 | 4.4 | 9.1 | 107.14 | -125.2 | -528.6 | 590.9 | 582.3 | 8.51 | 69.419 | | |
| 2,400.0 | 2,394.6 | 2,286.0 | 2,223.6 | 4.7 | 9.6 | 107.37 | -132.7 | -554.4 | 621.0 | 612.1 | 8.94 | 69.447 | | |
| 2,500.0 | 2,494.2 | 2,381.3 | 2,315.0 | 4.9 | 10.1 | 107.58 | -140.3 | -580.1 | 651.2 | 641.8 | 9.38 | 69.462 | | |
| 2,600.0 | 2,593.7 | 2,476.7 | 2,406.5 | 5.1 | 10.6 | 107.77 | -147.8 | -605.9 | 681.4 | 671.6 | 9.81 | 69.467 | | |
| 2,700.0 | 2,693.3 | 2,572.0 | 2,497.9 | 5.4 | 11.1 | 107.94 | -155.4 | -631.7 | 711.6 | 701.4 | 10.24 | 69.464 | | |
| 2,800.0 | 2,792.9 | 2,667.3 | 2,589.4 | 5.6 | 11.7 | 108.10 | -162.9 | -657.5 | 741.8 | 731.1 | 10.68 | 69.456 | | |
| 2,900.0 | 2,892.4 | 2,762.6 | 2,680.8 | 5.8 | 12.2 | 108.25 | -170.5 | -683.2 | 772.0 | 760.9 | 11.12 | 69.443 | | |
| 3,000.0 | 2,992.0 | 2,857.9 | 2,772.3 | 6.1 | 12.7 | 108.39 | -178.0 | -709.0 | 802.2 | 790.7 | 11.56 | 69.426 | | |
| 3,100.0 | 3,091.5 | 2,953.2 | 2,863.7 | 6.3 | 13.2 | 108.52 | -185.6 | -734.8 | 832.5 | 820.5 | 11.99 | 69.407 | | |
| 3,200.0 | 3,191.1 | 3,048.5 | 2,955.2 | 6.5 | 13.7 | 108.63 | -193.1 | -760.5 | 862.7 | 850.2 | 12.43 | 69.386 | | |
| 3,300.0 | 3,290.7 | 3,143.8 | 3,046.6 | 6.8 | 14.2 | 108.74 | -200.7 | -786.3 | 892.9 | 880.0 | 12.87 | 69.363 | | |
| 3,400.0 | 3,390.2 | 3,239.1 | 3,138.1 | 7.0 | 14.7 | 108.85 | -208.3 | -812.1 | 923.1 | 909.8 | 13.31 | 69.339 | | |
| 3,500.0 | 3,489.8 | 3,334.4 | 3,229.5 | 7.2 | 15.2 | 108.94 | -215.8 | -837.9 | 953.3 | 939.6 | 13.75 | 69.315 | | |
| 3,600.0 | 3,589.3 | 3,429.8 | 3,320.9 | 7.5 | 15.7 | 109.03 | -223.4 | -863.6 | 983.6 | 969.4 | 14.20 | 69.290 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4B-26H-P268 - 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 | -89.75 | 0.4 | -90.1 | 90.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.75 | 0.4 | -90.1 | 90.1 | 89.8 | 0.24 | 379.471 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.75 | 0.4 | -90.1 | 90.1 | 89.5 | 0.59 | 153.595 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.75 | 0.4 | -90.1 | 90.1 | 89.1 | 0.94 | 96.284 CC, ES | | |
| 400.0 | 400.0 | 397.1 | 397.1 | 0.6 | 0.6 | -90.07 | -0.1 | -91.6 | 91.7 | 90.4 | 1.28 | 71.594 | | |
| 500.0 | 500.0 | 493.9 | 493.8 | 0.8 | 0.8 | -90.99 | -1.7 | -96.3 | 96.5 | 94.9 | 1.63 | 59.197 | | |
| 600.0 | 600.0 | 590.3 | 589.8 | 1.0 | 1.0 | -92.33 | -4.2 | -104.0 | 104.6 | 102.6 | 1.99 | 52.611 | | |
| 700.0 | 700.0 | 686.1 | 684.9 | 1.2 | 1.3 | -93.88 | -7.8 | -114.7 | 116.0 | 113.6 | 2.36 | 49.233 | | |
| 800.0 | 800.0 | 781.0 | 778.7 | 1.3 | 1.6 | -95.47 | -12.3 | -128.3 | 130.6 | 127.9 | 2.73 | 47.804 | | |
| 900.0 | 900.0 | 874.8 | 870.9 | 1.5 | 1.9 | -96.97 | -17.7 | -144.6 | 148.6 | 145.5 | 3.12 | 47.637 SF | | |
| 1,000.0 | 1,000.0 | 967.4 | 961.4 | 1.7 | 2.3 | -98.33 | -24.0 | -163.5 | 169.7 | 166.2 | 3.51 | 48.314 | | |
| 1,100.0 | 1,100.0 | 1,060.8 | 1,052.0 | 1.9 | 2.7 | 101.48 | -31.1 | -185.2 | 194.2 | 190.5 | 3.68 | 52.717 | | |
| 1,200.0 | 1,199.8 | 1,157.5 | 1,145.5 | 2.0 | 3.1 | 101.29 | -38.8 | -208.1 | 219.9 | 215.9 | 4.04 | 54.456 | | |
| 1,300.0 | 1,299.5 | 1,253.8 | 1,238.8 | 2.2 | 3.6 | 101.96 | -46.3 | -231.0 | 246.3 | 241.9 | 4.41 | 55.834 | | |
| 1,400.0 | 1,399.0 | 1,350.1 | 1,332.0 | 2.4 | 4.0 | 102.97 | -53.9 | -253.9 | 273.0 | 268.2 | 4.80 | 56.848 | | |
| 1,500.0 | 1,498.6 | 1,446.4 | 1,425.3 | 2.6 | 4.5 | 103.81 | -61.5 | -276.8 | 299.7 | 294.5 | 5.20 | 57.619 | | |
| 1,600.0 | 1,598.1 | 1,542.7 | 1,518.5 | 2.9 | 4.9 | 104.50 | -69.1 | -299.6 | 326.4 | 320.8 | 5.61 | 58.211 | | |
| 1,700.0 | 1,697.7 | 1,639.0 | 1,611.7 | 3.1 | 5.4 | 105.09 | -76.7 | -322.5 | 353.2 | 347.2 | 6.02 | 58.671 | | |
| 1,800.0 | 1,797.3 | 1,735.2 | 1,704.9 | 3.3 | 5.8 | 105.60 | -84.3 | -345.4 | 380.1 | 373.6 | 6.44 | 59.032 | | |
| 1,900.0 | 1,896.8 | 1,831.5 | 1,798.1 | 3.5 | 6.3 | 106.04 | -91.8 | -368.3 | 406.9 | 400.1 | 6.86 | 59.318 | | |
| 2,000.0 | 1,996.4 | 1,927.8 | 1,891.4 | 3.7 | 6.7 | 106.43 | -99.4 | -391.1 | 433.8 | 426.5 | 7.28 | 59.546 | | |
| 2,100.0 | 2,095.9 | 2,024.1 | 1,984.6 | 4.0 | 7.2 | 106.77 | -107.0 | -414.0 | 460.7 | 453.0 | 7.71 | 59.729 | | |
| 2,200.0 | 2,195.5 | 2,120.4 | 2,077.8 | 4.2 | 7.7 | 107.07 | -114.6 | -436.9 | 487.6 | 479.4 | 8.14 | 59.877 | | |
| 2,300.0 | 2,295.1 | 2,216.7 | 2,171.0 | 4.4 | 8.1 | 107.35 | -122.2 | -459.7 | 514.5 | 505.9 | 8.58 | 59.998 | | |
| 2,400.0 | 2,394.6 | 2,312.9 | 2,264.2 | 4.7 | 8.6 | 107.59 | -129.8 | -482.6 | 541.4 | 532.4 | 9.01 | 60.096 | | |
| 2,500.0 | 2,494.2 | 2,409.2 | 2,357.5 | 4.9 | 9.0 | 107.81 | -137.3 | -505.5 | 568.4 | 558.9 | 9.44 | 60.177 | | |
| 2,600.0 | 2,593.7 | 2,505.5 | 2,450.7 | 5.1 | 9.5 | 108.02 | -144.9 | -528.3 | 595.3 | 585.4 | 9.88 | 60.244 | | |
| 2,700.0 | 2,693.3 | 2,601.8 | 2,543.9 | 5.4 | 10.0 | 108.20 | -152.5 | -551.2 | 622.2 | 611.9 | 10.32 | 60.298 | | |
| 2,800.0 | 2,792.9 | 2,698.1 | 2,637.1 | 5.6 | 10.4 | 108.37 | -160.1 | -574.1 | 649.2 | 638.4 | 10.76 | 60.343 | | |
| 2,900.0 | 2,892.4 | 2,794.4 | 2,730.3 | 5.8 | 10.9 | 108.52 | -167.7 | -597.0 | 676.1 | 664.9 | 11.20 | 60.381 | | |
| 3,000.0 | 2,992.0 | 2,890.6 | 2,823.6 | 6.1 | 11.4 | 108.67 | -175.2 | -619.8 | 703.1 | 691.5 | 11.64 | 60.411 | | |
| 3,100.0 | 3,091.5 | 2,986.9 | 2,916.8 | 6.3 | 11.8 | 108.80 | -182.8 | -642.7 | 730.1 | 718.0 | 12.08 | 60.437 | | |
| 3,200.0 | 3,191.1 | 3,083.2 | 3,010.0 | 6.5 | 12.3 | 108.92 | -190.4 | -665.6 | 757.0 | 744.5 | 12.52 | 60.457 | | |
| 3,300.0 | 3,290.7 | 3,179.5 | 3,103.2 | 6.8 | 12.7 | 109.04 | -198.0 | -688.4 | 784.0 | 771.0 | 12.96 | 60.474 | | |
| 3,400.0 | 3,390.2 | 3,275.8 | 3,196.4 | 7.0 | 13.2 | 109.15 | -205.6 | -711.3 | 811.0 | 797.6 | 13.41 | 60.488 | | |
| 3,500.0 | 3,489.8 | 3,372.0 | 3,289.7 | 7.2 | 13.7 | 109.25 | -213.2 | -734.2 | 837.9 | 824.1 | 13.85 | 60.499 | | |
| 3,600.0 | 3,589.3 | 3,468.3 | 3,382.9 | 7.5 | 14.1 | 109.34 | -220.7 | -757.0 | 864.9 | 850.6 | 14.29 | 60.508 | | |
| 3,700.0 | 3,688.9 | 3,564.6 | 3,476.1 | 7.7 | 14.6 | 109.43 | -228.3 | -779.9 | 891.9 | 877.2 | 14.74 | 60.514 | | |
| 3,800.0 | 3,788.5 | 3,660.9 | 3,569.3 | 7.9 | 15.1 | 109.51 | -235.9 | -802.8 | 918.9 | 903.7 | 15.18 | 60.519 | | |
| 3,900.0 | 3,888.0 | 3,757.2 | 3,662.5 | 8.2 | 15.5 | 109.59 | -243.5 | -825.7 | 945.9 | 930.2 | 15.63 | 60.523 | | |
| 4,000.0 | 3,987.6 | 3,853.5 | 3,755.8 | 8.4 | 16.0 | 109.67 | -251.1 | -848.5 | 972.9 | 956.8 | 16.07 | 60.525 | | |
| 4,100.0 | 4,087.1 | 3,949.7 | 3,849.0 | 8.6 | 16.4 | 109.74 | -258.7 | -871.4 | 999.8 | 983.3 | 16.52 | 60.527 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4C-26H-P268 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -89.72 | 0.4 | -80.0 | 80.0 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.72 | 0.4 | -80.0 | 80.0 | 79.8 | 0.24 | 337.046 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.72 | 0.4 | -80.0 | 80.0 | 79.4 | 0.59 | 136.424 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.72 | 0.4 | -80.0 | 80.0 | 79.1 | 0.94 | 85.519 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -89.72 | 0.4 | -80.0 | 80.0 | 78.7 | 1.28 | 62.280 CC, ES | | |
| 500.0 | 500.0 | 497.4 | 497.4 | 0.8 | 0.8 | -90.14 | -0.2 | -81.6 | 81.6 | 80.0 | 1.63 | 50.053 | | |
| 600.0 | 600.0 | 594.6 | 594.5 | 1.0 | 1.0 | -91.30 | -2.0 | -86.2 | 86.4 | 84.4 | 1.98 | 43.624 | | |
| 700.0 | 700.0 | 691.4 | 690.9 | 1.2 | 1.2 | -92.97 | -4.9 | -93.8 | 94.4 | 92.1 | 2.34 | 40.386 | | |
| 800.0 | 800.0 | 787.5 | 786.3 | 1.3 | 1.4 | -94.88 | -8.9 | -104.5 | 105.7 | 103.0 | 2.70 | 39.093 | | |
| 900.0 | 900.0 | 882.7 | 880.4 | 1.5 | 1.7 | -96.79 | -14.0 | -117.9 | 120.4 | 117.3 | 3.08 | 39.068 SF | | |
| 1,000.0 | 1,000.0 | 976.8 | 973.0 | 1.7 | 2.0 | -98.57 | -20.2 | -134.1 | 138.3 | 134.8 | 3.47 | 39.903 | | |
| 1,100.0 | 1,100.0 | 1,069.7 | 1,063.6 | 1.9 | 2.4 | 101.04 | -27.3 | -152.8 | 159.8 | 156.1 | 3.70 | 43.201 | | |
| 1,200.0 | 1,199.8 | 1,166.5 | 1,157.7 | 2.0 | 2.8 | 100.78 | -35.4 | -174.0 | 183.7 | 179.6 | 4.06 | 45.288 | | |
| 1,300.0 | 1,299.5 | 1,263.4 | 1,251.9 | 2.2 | 3.2 | 101.53 | -43.4 | -195.1 | 208.3 | 203.8 | 4.43 | 46.985 | | |
| 1,400.0 | 1,399.0 | 1,360.2 | 1,346.0 | 2.4 | 3.6 | 102.59 | -51.5 | -216.3 | 233.0 | 228.2 | 4.82 | 48.303 | | |
| 1,500.0 | 1,498.6 | 1,457.0 | 1,440.2 | 2.6 | 4.0 | 103.45 | -59.5 | -237.4 | 257.9 | 252.7 | 5.23 | 49.344 | | |
| 1,600.0 | 1,598.1 | 1,553.8 | 1,534.3 | 2.9 | 4.5 | 104.16 | -67.6 | -258.5 | 282.8 | 277.2 | 5.64 | 50.177 | | |
| 1,700.0 | 1,697.7 | 1,650.6 | 1,628.4 | 3.1 | 4.9 | 104.75 | -75.6 | -279.7 | 307.7 | 301.7 | 6.05 | 50.853 | | |
| 1,800.0 | 1,797.3 | 1,747.4 | 1,722.5 | 3.3 | 5.3 | 105.26 | -83.6 | -300.8 | 332.7 | 326.2 | 6.47 | 51.406 | | |
| 1,900.0 | 1,896.8 | 1,844.2 | 1,816.6 | 3.5 | 5.8 | 105.69 | -91.7 | -321.9 | 357.6 | 350.8 | 6.90 | 51.864 | | |
| 2,000.0 | 1,996.4 | 1,941.0 | 1,910.8 | 3.7 | 6.2 | 106.07 | -99.7 | -343.1 | 382.6 | 375.3 | 7.32 | 52.248 | | |
| 2,100.0 | 2,095.9 | 2,037.7 | 2,004.9 | 4.0 | 6.6 | 106.40 | -107.8 | -364.2 | 407.6 | 399.9 | 7.75 | 52.572 | | |
| 2,200.0 | 2,195.5 | 2,134.5 | 2,099.0 | 4.2 | 7.0 | 106.69 | -115.8 | -385.3 | 432.7 | 424.5 | 8.19 | 52.848 | | |
| 2,300.0 | 2,295.1 | 2,231.3 | 2,193.1 | 4.4 | 7.5 | 106.95 | -123.9 | -406.5 | 457.7 | 449.1 | 8.62 | 53.084 | | |
| 2,400.0 | 2,394.6 | 2,328.1 | 2,287.2 | 4.7 | 7.9 | 107.19 | -131.9 | -427.6 | 482.7 | 473.7 | 9.06 | 53.289 | | |
| 2,500.0 | 2,494.2 | 2,424.9 | 2,381.3 | 4.9 | 8.4 | 107.40 | -140.0 | -448.8 | 507.8 | 498.3 | 9.50 | 53.467 | | |
| 2,600.0 | 2,593.7 | 2,521.7 | 2,475.5 | 5.1 | 8.8 | 107.59 | -148.0 | -469.9 | 532.8 | 522.9 | 9.94 | 53.623 | | |
| 2,700.0 | 2,693.3 | 2,618.5 | 2,569.6 | 5.4 | 9.2 | 107.76 | -156.0 | -491.0 | 557.9 | 547.5 | 10.38 | 53.760 | | |
| 2,800.0 | 2,792.9 | 2,715.3 | 2,663.7 | 5.6 | 9.7 | 107.92 | -164.1 | -512.2 | 582.9 | 572.1 | 10.82 | 53.881 | | |
| 2,900.0 | 2,892.4 | 2,812.1 | 2,757.8 | 5.8 | 10.1 | 108.07 | -172.1 | -533.3 | 608.0 | 596.7 | 11.26 | 53.989 | | |
| 3,000.0 | 2,992.0 | 2,908.9 | 2,851.9 | 6.1 | 10.5 | 108.20 | -180.2 | -554.4 | 633.1 | 621.4 | 11.70 | 54.086 | | |
| 3,100.0 | 3,091.5 | 3,005.7 | 2,946.1 | 6.3 | 11.0 | 108.33 | -188.2 | -575.6 | 658.1 | 646.0 | 12.15 | 54.173 | | |
| 3,200.0 | 3,191.1 | 3,102.5 | 3,040.2 | 6.5 | 11.4 | 108.44 | -196.3 | -596.7 | 683.2 | 670.6 | 12.59 | 54.251 | | |
| 3,300.0 | 3,290.7 | 3,199.3 | 3,134.3 | 6.8 | 11.8 | 108.55 | -204.3 | -617.9 | 708.3 | 695.2 | 13.04 | 54.321 | | |
| 3,400.0 | 3,390.2 | 3,296.1 | 3,228.4 | 7.0 | 12.3 | 108.65 | -212.3 | -639.0 | 733.3 | 719.9 | 13.48 | 54.385 | | |
| 3,500.0 | 3,489.8 | 3,392.9 | 3,322.5 | 7.2 | 12.7 | 108.74 | -220.4 | -660.1 | 758.4 | 744.5 | 13.93 | 54.443 | | |
| 3,600.0 | 3,589.3 | 3,489.7 | 3,416.7 | 7.5 | 13.1 | 108.83 | -228.4 | -681.3 | 783.5 | 769.1 | 14.38 | 54.496 | | |
| 3,700.0 | 3,688.9 | 3,586.5 | 3,510.8 | 7.7 | 13.6 | 108.91 | -236.5 | -702.4 | 808.6 | 793.8 | 14.82 | 54.545 | | |
| 3,800.0 | 3,788.5 | 3,683.3 | 3,604.9 | 7.9 | 14.0 | 108.99 | -244.5 | -723.5 | 833.7 | 818.4 | 15.27 | 54.590 | | |
| 3,900.0 | 3,888.0 | 3,780.1 | 3,699.0 | 8.2 | 14.5 | 109.06 | -252.6 | -744.7 | 858.7 | 843.0 | 15.72 | 54.631 | | |
| 4,000.0 | 3,987.6 | 3,876.9 | 3,793.1 | 8.4 | 14.9 | 109.13 | -260.6 | -765.8 | 883.8 | 867.7 | 16.17 | 54.669 | | |
| 4,100.0 | 4,087.1 | 3,973.7 | 3,887.2 | 8.6 | 15.3 | 109.19 | -268.7 | -787.0 | 908.9 | 892.3 | 16.62 | 54.704 | | |
| 4,200.0 | 4,186.7 | 4,070.5 | 3,981.4 | 8.9 | 15.8 | 109.25 | -276.7 | -808.1 | 934.0 | 916.9 | 17.06 | 54.736 | | |
| 4,300.0 | 4,286.3 | 4,167.3 | 4,075.5 | 9.1 | 16.2 | 109.31 | -284.7 | -829.2 | 959.1 | 941.6 | 17.51 | 54.766 | | |
| 4,400.0 | 4,385.8 | 4,264.1 | 4,169.6 | 9.4 | 16.6 | 109.37 | -292.8 | -850.4 | 984.2 | 966.2 | 17.96 | 54.794 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4D-26H-P268 - 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 | -89.69 | 0.4 | -70.2 | 70.2 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.69 | 0.4 | -70.2 | 70.2 | 70.0 | 0.24 | 295.800 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.69 | 0.4 | -70.2 | 70.2 | 69.6 | 0.59 | 119.729 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.69 | 0.4 | -70.2 | 70.2 | 69.3 | 0.94 | 75.054 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -89.69 | 0.4 | -70.2 | 70.2 | 68.9 | 1.28 | 54.659 | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 0.8 | 0.8 | -89.69 | 0.4 | -70.2 | 70.2 | 68.6 | 1.63 | 42.980 | CC, ES | |
| 600.0 | 600.0 | 597.8 | 597.8 | 1.0 | 1.0 | -90.24 | -0.3 | -71.7 | 71.8 | 69.8 | 1.98 | 36.254 | | |
| 700.0 | 700.0 | 695.3 | 695.2 | 1.2 | 1.2 | -91.74 | -2.3 | -76.3 | 76.5 | 74.2 | 2.33 | 32.826 | | |
| 800.0 | 800.0 | 792.4 | 791.9 | 1.3 | 1.4 | -93.86 | -5.7 | -83.8 | 84.4 | 81.7 | 2.69 | 31.411 | | |
| 900.0 | 900.0 | 888.8 | 887.7 | 1.5 | 1.6 | -96.23 | -10.3 | -94.3 | 95.7 | 92.6 | 3.05 | 31.320 | SF | |
| 1,000.0 | 1,000.0 | 984.4 | 982.1 | 1.7 | 1.9 | -98.54 | -16.2 | -107.6 | 110.2 | 106.8 | 3.43 | 32.140 | | |
| 1,100.0 | 1,100.0 | 1,078.9 | 1,074.9 | 1.9 | 2.2 | 100.75 | -23.2 | -123.5 | 128.5 | 124.7 | 3.71 | 34.594 | | |
| 1,200.0 | 1,199.8 | 1,176.0 | 1,170.0 | 2.0 | 2.5 | 100.44 | -31.3 | -141.7 | 149.4 | 145.3 | 4.07 | 36.671 | | |
| 1,300.0 | 1,299.5 | 1,273.6 | 1,265.5 | 2.2 | 2.9 | 101.34 | -39.4 | -160.1 | 170.9 | 166.5 | 4.45 | 38.392 | | |
| 1,400.0 | 1,399.0 | 1,371.1 | 1,361.0 | 2.4 | 3.3 | 102.51 | -47.5 | -178.4 | 192.7 | 187.9 | 4.85 | 39.763 | | |
| 1,500.0 | 1,498.6 | 1,468.7 | 1,456.4 | 2.6 | 3.6 | 103.45 | -55.7 | -196.8 | 214.6 | 209.3 | 5.25 | 40.866 | | |
| 1,600.0 | 1,598.1 | 1,566.2 | 1,551.9 | 2.9 | 4.0 | 104.21 | -63.8 | -215.1 | 236.5 | 230.8 | 5.66 | 41.763 | | |
| 1,700.0 | 1,697.7 | 1,663.7 | 1,647.3 | 3.1 | 4.4 | 104.84 | -71.9 | -233.4 | 258.4 | 252.3 | 6.08 | 42.501 | | |
| 1,800.0 | 1,797.3 | 1,761.3 | 1,742.7 | 3.3 | 4.8 | 105.38 | -80.0 | -251.8 | 280.4 | 273.9 | 6.50 | 43.115 | | |
| 1,900.0 | 1,896.8 | 1,858.8 | 1,838.2 | 3.5 | 5.2 | 105.83 | -88.1 | -270.1 | 302.3 | 295.4 | 6.93 | 43.632 | | |
| 2,000.0 | 1,996.4 | 1,956.3 | 1,933.6 | 3.7 | 5.5 | 106.23 | -96.3 | -288.4 | 324.3 | 317.0 | 7.36 | 44.071 | | |
| 2,100.0 | 2,095.9 | 2,053.8 | 2,029.1 | 4.0 | 5.9 | 106.57 | -104.4 | -306.8 | 346.3 | 338.5 | 7.79 | 44.447 | | |
| 2,200.0 | 2,195.5 | 2,151.4 | 2,124.5 | 4.2 | 6.3 | 106.87 | -112.5 | -325.1 | 368.3 | 360.1 | 8.23 | 44.771 | | |
| 2,300.0 | 2,295.1 | 2,248.9 | 2,220.0 | 4.4 | 6.7 | 107.14 | -120.6 | -343.5 | 390.4 | 381.7 | 8.66 | 45.054 | | |
| 2,400.0 | 2,394.6 | 2,346.4 | 2,315.4 | 4.7 | 7.1 | 107.38 | -128.7 | -361.8 | 412.4 | 403.3 | 9.10 | 45.302 | | |
| 2,500.0 | 2,494.2 | 2,444.0 | 2,410.9 | 4.9 | 7.5 | 107.60 | -136.9 | -380.1 | 434.4 | 424.9 | 9.54 | 45.520 | | |
| 2,600.0 | 2,593.7 | 2,541.5 | 2,506.3 | 5.1 | 7.9 | 107.79 | -145.0 | -398.5 | 456.5 | 446.5 | 9.99 | 45.714 | | |
| 2,700.0 | 2,693.3 | 2,639.0 | 2,601.8 | 5.4 | 8.3 | 107.97 | -153.1 | -416.8 | 478.5 | 468.1 | 10.43 | 45.887 | | |
| 2,800.0 | 2,792.9 | 2,736.5 | 2,697.2 | 5.6 | 8.7 | 108.13 | -161.2 | -435.1 | 500.6 | 489.7 | 10.87 | 46.042 | | |
| 2,900.0 | 2,892.4 | 2,834.1 | 2,792.6 | 5.8 | 9.0 | 108.28 | -169.3 | -453.5 | 522.6 | 511.3 | 11.32 | 46.181 | | |
| 3,000.0 | 2,992.0 | 2,931.6 | 2,888.1 | 6.1 | 9.4 | 108.42 | -177.5 | -471.8 | 544.7 | 532.9 | 11.76 | 46.307 | | |
| 3,100.0 | 3,091.5 | 3,029.1 | 2,983.5 | 6.3 | 9.8 | 108.54 | -185.6 | -490.1 | 566.8 | 554.6 | 12.21 | 46.422 | | |
| 3,200.0 | 3,191.1 | 3,126.7 | 3,079.0 | 6.5 | 10.2 | 108.66 | -193.7 | -508.5 | 588.8 | 576.2 | 12.66 | 46.526 | | |
| 3,300.0 | 3,290.7 | 3,224.2 | 3,174.4 | 6.8 | 10.6 | 108.77 | -201.8 | -526.8 | 610.9 | 597.8 | 13.10 | 46.622 | | |
| 3,400.0 | 3,390.2 | 3,321.7 | 3,269.9 | 7.0 | 11.0 | 108.87 | -210.0 | -545.2 | 633.0 | 619.4 | 13.55 | 46.709 | | |
| 3,500.0 | 3,489.8 | 3,419.2 | 3,365.3 | 7.2 | 11.4 | 108.96 | -218.1 | -563.5 | 655.0 | 641.0 | 14.00 | 46.790 | | |
| 3,600.0 | 3,589.3 | 3,516.8 | 3,460.8 | 7.5 | 11.8 | 109.05 | -226.2 | -581.8 | 677.1 | 662.6 | 14.45 | 46.864 | | |
| 3,700.0 | 3,688.9 | 3,614.3 | 3,556.2 | 7.7 | 12.2 | 109.13 | -234.3 | -600.2 | 699.2 | 684.3 | 14.90 | 46.933 | | |
| 3,800.0 | 3,788.5 | 3,711.8 | 3,651.6 | 7.9 | 12.6 | 109.20 | -242.4 | -618.5 | 721.2 | 705.9 | 15.35 | 46.996 | | |
| 3,900.0 | 3,888.0 | 3,809.4 | 3,747.1 | 8.2 | 13.0 | 109.28 | -250.6 | -636.8 | 743.3 | 727.5 | 15.80 | 47.056 | | |
| 4,000.0 | 3,987.6 | 3,906.9 | 3,842.5 | 8.4 | 13.4 | 109.34 | -258.7 | -655.2 | 765.4 | 749.1 | 16.25 | 47.111 | | |
| 4,100.0 | 4,087.1 | 4,004.4 | 3,938.0 | 8.6 | 13.8 | 109.41 | -266.8 | -673.5 | 787.5 | 770.8 | 16.70 | 47.162 | | |
| 4,200.0 | 4,186.7 | 4,101.9 | 4,033.4 | 8.9 | 14.2 | 109.47 | -274.9 | -691.8 | 809.5 | 792.4 | 17.15 | 47.211 | | |
| 4,300.0 | 4,286.3 | 4,199.5 | 4,128.9 | 9.1 | 14.5 | 109.53 | -283.0 | -710.2 | 831.6 | 814.0 | 17.60 | 47.256 | | |
| 4,400.0 | 4,385.8 | 4,297.0 | 4,224.3 | 9.4 | 14.9 | 109.58 | -291.2 | -728.5 | 853.7 | 835.7 | 18.05 | 47.298 | | |
| 4,500.0 | 4,485.4 | 4,394.5 | 4,319.8 | 9.6 | 15.3 | 109.63 | -299.3 | -746.9 | 875.8 | 857.3 | 18.50 | 47.338 | | |
| 4,600.0 | 4,584.9 | 4,492.1 | 4,415.2 | 9.8 | 15.7 | 109.68 | -307.4 | -765.2 | 897.9 | 878.9 | 18.95 | 47.376 | | |
| 4,700.0 | 4,684.5 | 4,589.6 | 4,510.6 | 10.1 | 16.1 | 109.73 | -315.5 | -783.5 | 919.9 | 900.5 | 19.40 | 47.411 | | |
| 4,800.0 | 4,784.1 | 4,687.1 | 4,606.1 | 10.3 | 16.5 | 109.77 | -323.6 | -801.9 | 942.0 | 922.2 | 19.86 | 47.445 | | |
| 4,900.0 | 4,883.6 | 4,784.7 | 4,701.5 | 10.5 | 16.9 | 109.82 | -331.8 | -820.2 | 964.1 | 943.8 | 20.31 | 47.477 | | |
| 5,000.0 | 4,983.2 | 4,882.2 | 4,797.0 | 10.8 | 17.3 | 109.86 | -339.9 | -838.5 | 986.2 | 965.4 | 20.76 | 47.507 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|---------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -89.64 | 0.4 | -60.1 | 60.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.64 | 0.4 | -60.1 | 60.1 | 59.9 | 0.24 | 253.376 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.64 | 0.4 | -60.1 | 60.1 | 59.6 | 0.59 | 102.557 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.64 | 0.4 | -60.1 | 60.1 | 59.2 | 0.94 | 64.289 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -89.64 | 0.4 | -60.1 | 60.1 | 58.9 | 1.28 | 46.820 | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 0.8 | 0.8 | -89.64 | 0.4 | -60.1 | 60.1 | 58.5 | 1.63 | 36.815 | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.0 | 1.0 | -89.64 | 0.4 | -60.1 | 60.1 | 58.2 | 1.98 | 30.334 CC, ES | | |
| 700.0 | 700.0 | 698.1 | 698.1 | 1.2 | 1.2 | -90.39 | -0.4 | -61.6 | 61.7 | 59.3 | 2.33 | 26.468 | | |
| 800.0 | 800.0 | 796.1 | 795.9 | 1.3 | 1.3 | -92.41 | -2.8 | -66.1 | 66.2 | 63.6 | 2.68 | 24.716 | | |
| 900.0 | 900.0 | 893.5 | 893.0 | 1.5 | 1.5 | -95.21 | -6.7 | -73.4 | 74.0 | 71.0 | 3.04 | 24.365 SF | | |
| 1,000.0 | 1,000.0 | 990.3 | 989.1 | 1.7 | 1.8 | -98.25 | -12.1 | -83.6 | 85.1 | 81.7 | 3.41 | 25.001 | | |
| 1,100.0 | 1,100.0 | 1,086.2 | 1,083.9 | 1.9 | 2.0 | 100.56 | -19.0 | -96.5 | 99.9 | 96.2 | 3.72 | 26.836 | | |
| 1,200.0 | 1,199.8 | 1,183.9 | 1,180.1 | 2.0 | 2.3 | 100.12 | -27.0 | -111.6 | 117.6 | 113.5 | 4.09 | 28.781 | | |
| 1,300.0 | 1,299.5 | 1,282.2 | 1,276.8 | 2.2 | 2.6 | 101.20 | -35.2 | -126.9 | 135.9 | 131.5 | 4.47 | 30.428 | | |
| 1,400.0 | 1,399.0 | 1,380.4 | 1,373.5 | 2.4 | 3.0 | 102.51 | -43.3 | -142.1 | 154.5 | 149.6 | 4.86 | 31.767 | | |
| 1,500.0 | 1,498.6 | 1,478.6 | 1,470.2 | 2.6 | 3.3 | 103.55 | -51.4 | -157.4 | 173.1 | 167.9 | 5.27 | 32.856 | | |
| 1,600.0 | 1,598.1 | 1,576.8 | 1,566.8 | 2.9 | 3.6 | 104.38 | -59.6 | -172.6 | 191.8 | 186.1 | 5.68 | 33.752 | | |
| 1,700.0 | 1,697.7 | 1,675.0 | 1,663.5 | 3.1 | 3.9 | 105.06 | -67.7 | -187.9 | 210.5 | 204.4 | 6.10 | 34.496 | | |
| 1,800.0 | 1,797.3 | 1,773.2 | 1,760.2 | 3.3 | 4.3 | 105.64 | -75.8 | -203.2 | 229.2 | 222.7 | 6.53 | 35.122 | | |
| 1,900.0 | 1,896.8 | 1,871.4 | 1,856.9 | 3.5 | 4.6 | 106.12 | -84.0 | -218.4 | 248.0 | 241.0 | 6.96 | 35.654 | | |
| 2,000.0 | 1,996.4 | 1,969.6 | 1,953.5 | 3.7 | 5.0 | 106.54 | -92.1 | -233.7 | 266.8 | 259.4 | 7.39 | 36.109 | | |
| 2,100.0 | 2,095.9 | 2,067.9 | 2,050.2 | 4.0 | 5.3 | 106.91 | -100.2 | -248.9 | 285.5 | 277.7 | 7.82 | 36.503 | | |
| 2,200.0 | 2,195.5 | 2,166.1 | 2,146.9 | 4.2 | 5.6 | 107.22 | -108.3 | -264.2 | 304.3 | 296.1 | 8.26 | 36.846 | | |
| 2,300.0 | 2,295.1 | 2,264.3 | 2,243.5 | 4.4 | 6.0 | 107.50 | -116.5 | -279.5 | 323.1 | 314.4 | 8.70 | 37.147 | | |
| 2,400.0 | 2,394.6 | 2,362.5 | 2,340.2 | 4.7 | 6.3 | 107.75 | -124.6 | -294.7 | 341.9 | 332.8 | 9.14 | 37.413 | | |
| 2,500.0 | 2,494.2 | 2,460.7 | 2,436.9 | 4.9 | 6.7 | 107.98 | -132.7 | -310.0 | 360.7 | 351.1 | 9.58 | 37.649 | | |
| 2,600.0 | 2,593.7 | 2,558.9 | 2,533.6 | 5.1 | 7.0 | 108.18 | -140.9 | -325.3 | 379.5 | 369.5 | 10.02 | 37.859 | | |
| 2,700.0 | 2,693.3 | 2,657.1 | 2,630.2 | 5.4 | 7.4 | 108.36 | -149.0 | -340.5 | 398.3 | 387.9 | 10.47 | 38.049 | | |
| 2,800.0 | 2,792.9 | 2,755.3 | 2,726.9 | 5.6 | 7.7 | 108.53 | -157.1 | -355.8 | 417.2 | 406.2 | 10.91 | 38.220 | | |
| 2,900.0 | 2,892.4 | 2,853.5 | 2,823.6 | 5.8 | 8.1 | 108.68 | -165.3 | -371.0 | 436.0 | 424.6 | 11.36 | 38.374 | | |
| 3,000.0 | 2,992.0 | 2,951.7 | 2,920.3 | 6.1 | 8.4 | 108.82 | -173.4 | -386.3 | 454.8 | 443.0 | 11.81 | 38.515 | | |
| 3,100.0 | 3,091.5 | 3,049.9 | 3,016.9 | 6.3 | 8.7 | 108.95 | -181.5 | -401.6 | 473.6 | 461.4 | 12.26 | 38.644 | | |
| 3,200.0 | 3,191.1 | 3,148.1 | 3,113.6 | 6.5 | 9.1 | 109.07 | -189.7 | -416.8 | 492.5 | 479.8 | 12.70 | 38.761 | | |
| 3,300.0 | 3,290.7 | 3,246.3 | 3,210.3 | 6.8 | 9.4 | 109.18 | -197.8 | -432.1 | 511.3 | 498.1 | 13.15 | 38.870 | | |
| 3,400.0 | 3,390.2 | 3,344.5 | 3,306.9 | 7.0 | 9.8 | 109.28 | -205.9 | -447.3 | 530.1 | 516.5 | 13.60 | 38.969 | | |
| 3,500.0 | 3,489.8 | 3,442.7 | 3,403.6 | 7.2 | 10.1 | 109.38 | -214.0 | -462.6 | 549.0 | 534.9 | 14.05 | 39.062 | | |
| 3,600.0 | 3,589.3 | 3,541.0 | 3,500.3 | 7.5 | 10.5 | 109.46 | -222.2 | -477.9 | 567.8 | 553.3 | 14.50 | 39.147 | | |
| 3,700.0 | 3,688.9 | 3,639.2 | 3,597.0 | 7.7 | 10.8 | 109.55 | -230.3 | -493.1 | 586.6 | 571.7 | 14.95 | 39.227 | | |
| 3,800.0 | 3,788.5 | 3,737.4 | 3,693.6 | 7.9 | 11.2 | 109.63 | -238.4 | -508.4 | 605.5 | 590.1 | 15.41 | 39.301 | | |
| 3,900.0 | 3,888.0 | 3,835.6 | 3,790.3 | 8.2 | 11.5 | 109.70 | -246.6 | -523.6 | 624.3 | 608.4 | 15.86 | 39.370 | | |
| 4,000.0 | 3,987.6 | 3,933.8 | 3,887.0 | 8.4 | 11.9 | 109.77 | -254.7 | -538.9 | 643.1 | 626.8 | 16.31 | 39.435 | | |
| 4,100.0 | 4,087.1 | 4,032.0 | 3,983.6 | 8.6 | 12.2 | 109.83 | -262.8 | -554.2 | 662.0 | 645.2 | 16.76 | 39.496 | | |
| 4,200.0 | 4,186.7 | 4,130.2 | 4,080.3 | 8.9 | 12.6 | 109.89 | -271.0 | -569.4 | 680.8 | 663.6 | 17.21 | 39.552 | | |
| 4,300.0 | 4,286.3 | 4,228.4 | 4,177.0 | 9.1 | 12.9 | 109.95 | -279.1 | -584.7 | 699.7 | 682.0 | 17.67 | 39.606 | | |
| 4,400.0 | 4,385.8 | 4,326.6 | 4,273.7 | 9.4 | 13.3 | 110.01 | -287.2 | -600.0 | 718.5 | 700.4 | 18.12 | 39.657 | | |
| 4,500.0 | 4,485.4 | 4,424.8 | 4,370.3 | 9.6 | 13.6 | 110.06 | -295.4 | -615.2 | 737.4 | 718.8 | 18.57 | 39.704 | | |
| 4,600.0 | 4,584.9 | 4,523.0 | 4,467.0 | 9.8 | 14.0 | 110.11 | -303.5 | -630.5 | 756.2 | 737.2 | 19.02 | 39.749 | | |
| 4,700.0 | 4,684.5 | 4,621.2 | 4,563.7 | 10.1 | 14.3 | 110.16 | -311.6 | -645.7 | 775.0 | 755.6 | 19.48 | 39.792 | | |
| 4,800.0 | 4,784.1 | 4,719.4 | 4,660.3 | 10.3 | 14.7 | 110.20 | -319.7 | -661.0 | 793.9 | 774.0 | 19.93 | 39.833 | | |
| 4,900.0 | 4,883.6 | 4,817.6 | 4,757.0 | 10.5 | 15.0 | 110.24 | -327.9 | -676.3 | 812.7 | 792.3 | 20.38 | 39.871 | | |
| 5,000.0 | 4,983.2 | 4,915.8 | 4,853.7 | 10.8 | 15.4 | 110.28 | -336.0 | -691.5 | 831.6 | 810.7 | 20.84 | 39.908 | | |
| 5,100.0 | 5,082.7 | 5,014.1 | 4,950.4 | 11.0 | 15.7 | 110.32 | -344.1 | -706.8 | 850.4 | 829.1 | 21.29 | 39.942 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4E-26H-P268 - HZ - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|---------------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning |
| 5,200.0 | 5,182.3 | 5,112.3 | 5,047.0 | 11.3 | 16.1 | 110.36 | -352.3 | -722.0 | 869.3 | 847.5 | 21.75 | 39.975 | |
| 5,300.0 | 5,281.9 | 5,210.5 | 5,143.7 | 11.5 | 16.4 | 110.40 | -360.4 | -737.3 | 888.1 | 865.9 | 22.20 | 40.007 | |
| 5,400.0 | 5,381.4 | 5,308.7 | 5,240.4 | 11.7 | 16.8 | 110.43 | -368.5 | -752.6 | 907.0 | 884.3 | 22.65 | 40.037 | |
| 5,500.0 | 5,481.0 | 5,406.9 | 5,337.1 | 12.0 | 17.1 | 110.46 | -376.7 | -767.8 | 925.8 | 902.7 | 23.11 | 40.066 | |
| 5,600.0 | 5,580.5 | 5,505.1 | 5,433.7 | 12.2 | 17.5 | 110.50 | -384.8 | -783.1 | 944.7 | 921.1 | 23.56 | 40.093 | |
| 5,700.0 | 5,680.1 | 5,603.3 | 5,530.4 | 12.4 | 17.8 | 110.53 | -392.9 | -798.3 | 963.5 | 939.5 | 24.02 | 40.120 | |
| 5,800.0 | 5,779.7 | 5,701.5 | 5,627.1 | 12.7 | 18.2 | 110.56 | -401.1 | -813.6 | 982.4 | 957.9 | 24.47 | 40.145 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - 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 | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -89.95 | 0.0 | -50.1 | 50.1 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.95 | 0.0 | -50.1 | 50.1 | 49.8 | 0.24 | 210.946 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.95 | 0.0 | -50.1 | 50.1 | 49.5 | 0.59 | 85.383 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.95 | 0.0 | -50.1 | 50.1 | 49.1 | 0.94 | 53.524 | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -89.95 | 0.0 | -50.1 | 50.1 | 48.8 | 1.28 | 38.979 | | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 0.8 | 0.8 | -89.95 | 0.0 | -50.1 | 50.1 | 48.4 | 1.63 | 30.650 | | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.0 | 1.0 | -89.95 | 0.0 | -50.1 | 50.1 | 48.1 | 1.98 | 25.254 | | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.2 | 1.2 | -89.95 | 0.0 | -50.1 | 50.1 | 47.7 | 2.33 | 21.474 CC, ES | | | |
| 800.0 | 800.0 | 798.5 | 798.5 | 1.3 | 1.3 | -91.00 | -0.9 | -51.5 | 51.5 | 48.8 | 2.68 | 19.225 | | | |
| 900.0 | 900.0 | 896.8 | 896.7 | 1.5 | 1.5 | -93.83 | -3.7 | -55.7 | 55.9 | 52.9 | 3.03 | 18.446 SF | | | |
| 1,000.0 | 1,000.0 | 994.7 | 994.1 | 1.7 | 1.7 | -97.63 | -8.4 | -62.6 | 63.5 | 60.1 | 3.39 | 18.724 | | | |
| 1,100.0 | 1,100.0 | 1,091.9 | 1,090.6 | 1.9 | 1.9 | 100.47 | -14.9 | -72.3 | 74.7 | 71.0 | 3.73 | 20.028 | | | |
| 1,200.0 | 1,199.8 | 1,189.3 | 1,186.9 | 2.0 | 2.2 | 99.66 | -23.0 | -84.5 | 89.4 | 85.4 | 4.09 | 21.860 | | | |
| 1,300.0 | 1,299.5 | 1,288.0 | 1,284.4 | 2.2 | 2.5 | 100.74 | -31.6 | -97.3 | 105.3 | 100.9 | 4.48 | 23.538 | | | |
| 1,400.0 | 1,399.0 | 1,386.6 | 1,381.9 | 2.4 | 2.7 | 102.09 | -40.2 | -110.1 | 121.4 | 116.6 | 4.87 | 24.920 | | | |
| 1,500.0 | 1,498.6 | 1,485.3 | 1,479.3 | 2.6 | 3.0 | 103.12 | -48.8 | -122.9 | 137.6 | 132.3 | 5.28 | 26.054 | | | |
| 1,600.0 | 1,598.1 | 1,584.0 | 1,576.8 | 2.9 | 3.3 | 103.93 | -57.4 | -135.7 | 153.8 | 148.1 | 5.70 | 26.994 | | | |
| 1,700.0 | 1,697.7 | 1,682.6 | 1,674.2 | 3.1 | 3.6 | 104.59 | -66.0 | -148.5 | 170.0 | 163.9 | 6.12 | 27.781 | | | |
| 1,800.0 | 1,797.3 | 1,781.3 | 1,771.7 | 3.3 | 3.9 | 105.13 | -74.6 | -161.3 | 186.2 | 179.6 | 6.55 | 28.448 | | | |
| 1,900.0 | 1,896.8 | 1,879.9 | 1,869.1 | 3.5 | 4.2 | 105.59 | -83.2 | -174.1 | 202.4 | 195.5 | 6.98 | 29.018 | | | |
| 2,000.0 | 1,996.4 | 1,978.6 | 1,966.6 | 3.7 | 4.6 | 105.98 | -91.8 | -186.9 | 218.7 | 211.3 | 7.41 | 29.509 | | | |
| 2,100.0 | 2,095.9 | 2,077.3 | 2,064.0 | 4.0 | 4.9 | 106.31 | -100.4 | -199.8 | 234.9 | 227.1 | 7.85 | 29.936 | | | |
| 2,200.0 | 2,195.5 | 2,175.9 | 2,161.5 | 4.2 | 5.2 | 106.60 | -109.0 | -212.6 | 251.2 | 242.9 | 8.29 | 30.310 | | | |
| 2,300.0 | 2,295.1 | 2,274.6 | 2,258.9 | 4.4 | 5.5 | 106.86 | -117.6 | -225.4 | 267.5 | 258.7 | 8.73 | 30.639 | | | |
| 2,400.0 | 2,394.6 | 2,373.3 | 2,356.4 | 4.7 | 5.8 | 107.08 | -126.2 | -238.2 | 283.7 | 274.6 | 9.17 | 30.932 | | | |
| 2,500.0 | 2,494.2 | 2,471.9 | 2,453.8 | 4.9 | 6.1 | 107.29 | -134.8 | -251.0 | 300.0 | 290.4 | 9.62 | 31.193 | | | |
| 2,600.0 | 2,593.7 | 2,570.6 | 2,551.3 | 5.1 | 6.4 | 107.47 | -143.4 | -263.8 | 316.3 | 306.2 | 10.06 | 31.427 | | | |
| 2,700.0 | 2,693.3 | 2,669.2 | 2,648.7 | 5.4 | 6.7 | 107.63 | -152.0 | -276.6 | 332.6 | 322.1 | 10.51 | 31.638 | | | |
| 2,800.0 | 2,792.9 | 2,767.9 | 2,746.1 | 5.6 | 7.1 | 107.78 | -160.6 | -289.4 | 348.9 | 337.9 | 10.96 | 31.829 | | | |
| 2,900.0 | 2,892.4 | 2,866.6 | 2,843.6 | 5.8 | 7.4 | 107.91 | -169.2 | -302.2 | 365.2 | 353.7 | 11.41 | 32.003 | | | |
| 3,000.0 | 2,992.0 | 2,965.2 | 2,941.0 | 6.1 | 7.7 | 108.04 | -177.8 | -315.1 | 381.4 | 369.6 | 11.86 | 32.162 | | | |
| 3,100.0 | 3,091.5 | 3,063.9 | 3,038.5 | 6.3 | 8.0 | 108.15 | -186.4 | -327.9 | 397.7 | 385.4 | 12.31 | 32.307 | | | |
| 3,200.0 | 3,191.1 | 3,162.5 | 3,135.9 | 6.5 | 8.3 | 108.26 | -195.0 | -340.7 | 414.0 | 401.3 | 12.76 | 32.441 | | | |
| 3,300.0 | 3,290.7 | 3,261.2 | 3,233.4 | 6.8 | 8.6 | 108.35 | -203.6 | -353.5 | 430.3 | 417.1 | 13.21 | 32.564 | | | |
| 3,400.0 | 3,390.2 | 3,359.9 | 3,330.8 | 7.0 | 9.0 | 108.44 | -212.2 | -366.3 | 446.6 | 433.0 | 13.67 | 32.678 | | | |
| 3,500.0 | 3,489.8 | 3,458.5 | 3,428.3 | 7.2 | 9.3 | 108.53 | -220.8 | -379.1 | 462.9 | 448.8 | 14.12 | 32.784 | | | |
| 3,600.0 | 3,589.3 | 3,557.2 | 3,525.7 | 7.5 | 9.6 | 108.60 | -229.4 | -391.9 | 479.2 | 464.6 | 14.57 | 32.882 | | | |
| 3,700.0 | 3,688.9 | 3,655.8 | 3,623.2 | 7.7 | 9.9 | 108.68 | -238.0 | -404.7 | 495.5 | 480.5 | 15.03 | 32.974 | | | |
| 3,800.0 | 3,788.5 | 3,754.5 | 3,720.6 | 7.9 | 10.2 | 108.74 | -246.6 | -417.5 | 511.8 | 496.3 | 15.48 | 33.059 | | | |
| 3,900.0 | 3,888.0 | 3,853.2 | 3,818.1 | 8.2 | 10.6 | 108.81 | -255.2 | -430.3 | 528.1 | 512.2 | 15.94 | 33.139 | | | |
| 4,000.0 | 3,987.6 | 3,951.8 | 3,915.5 | 8.4 | 10.9 | 108.87 | -263.8 | -443.2 | 544.4 | 528.0 | 16.39 | 33.214 | | | |
| 4,100.0 | 4,087.1 | 4,050.5 | 4,013.0 | 8.6 | 11.2 | 108.92 | -272.4 | -456.0 | 560.7 | 543.9 | 16.85 | 33.285 | | | |
| 4,200.0 | 4,186.7 | 4,149.2 | 4,110.4 | 8.9 | 11.5 | 108.98 | -281.0 | -468.8 | 577.0 | 559.7 | 17.30 | 33.351 | | | |
| 4,300.0 | 4,286.3 | 4,247.8 | 4,207.9 | 9.1 | 11.8 | 109.03 | -289.6 | -481.6 | 593.3 | 575.6 | 17.76 | 33.413 | | | |
| 4,400.0 | 4,385.8 | 4,346.5 | 4,305.3 | 9.4 | 12.2 | 109.07 | -298.1 | -494.4 | 609.6 | 591.4 | 18.21 | 33.472 | | | |
| 4,500.0 | 4,485.4 | 4,445.1 | 4,402.8 | 9.6 | 12.5 | 109.12 | -306.7 | -507.2 | 625.9 | 607.2 | 18.67 | 33.528 | | | |
| 4,600.0 | 4,584.9 | 4,543.8 | 4,500.2 | 9.8 | 12.8 | 109.16 | -315.3 | -520.0 | 642.2 | 623.1 | 19.12 | 33.581 | | | |
| 4,700.0 | 4,684.5 | 4,642.5 | 4,597.6 | 10.1 | 13.1 | 109.20 | -323.9 | -532.8 | 658.5 | 638.9 | 19.58 | 33.631 | | | |
| 4,800.0 | 4,784.1 | 4,741.1 | 4,695.1 | 10.3 | 13.4 | 109.24 | -332.5 | -545.6 | 674.8 | 654.8 | 20.04 | 33.679 | | | |
| 4,900.0 | 4,883.6 | 4,839.8 | 4,792.5 | 10.5 | 13.8 | 109.28 | -341.1 | -558.5 | 691.1 | 670.6 | 20.49 | 33.724 | | | |
| 5,000.0 | 4,983.2 | 4,938.4 | 4,890.0 | 10.8 | 14.1 | 109.31 | -349.7 | -571.3 | 707.4 | 686.5 | 20.95 | 33.767 | | | |
| 5,100.0 | 5,082.7 | 5,037.1 | 4,987.4 | 11.0 | 14.4 | 109.35 | -358.3 | -584.1 | 723.7 | 702.3 | 21.41 | 33.808 | | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4F-26H-P268 - 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 | 5,182.3 | 5,135.8 | 5,084.9 | 11.3 | 14.7 | 109.38 | -366.9 | -596.9 | 740.0 | 718.2 | 21.86 | 33.848 | | |
| 5,300.0 | 5,281.9 | 5,234.4 | 5,182.3 | 11.5 | 15.0 | 109.41 | -375.5 | -609.7 | 756.3 | 734.0 | 22.32 | 33.885 | | |
| 5,400.0 | 5,381.4 | 5,333.1 | 5,279.8 | 11.7 | 15.4 | 109.44 | -384.1 | -622.5 | 772.6 | 749.9 | 22.78 | 33.921 | | |
| 5,500.0 | 5,481.0 | 5,431.7 | 5,377.2 | 12.0 | 15.7 | 109.47 | -392.7 | -635.3 | 789.0 | 765.7 | 23.24 | 33.955 | | |
| 5,600.0 | 5,580.5 | 5,530.4 | 5,474.7 | 12.2 | 16.0 | 109.49 | -401.3 | -648.1 | 805.3 | 781.6 | 23.69 | 33.988 | | |
| 5,700.0 | 5,680.1 | 5,629.1 | 5,572.1 | 12.4 | 16.3 | 109.52 | -409.9 | -660.9 | 821.6 | 797.4 | 24.15 | 34.019 | | |
| 5,800.0 | 5,779.7 | 5,727.7 | 5,669.6 | 12.7 | 16.6 | 109.55 | -418.5 | -673.7 | 837.9 | 813.3 | 24.61 | 34.049 | | |
| 5,900.0 | 5,879.2 | 5,826.4 | 5,767.0 | 12.9 | 17.0 | 109.57 | -427.1 | -686.6 | 854.2 | 829.1 | 25.06 | 34.078 | | |
| 6,000.0 | 5,978.8 | 5,925.1 | 5,864.5 | 13.2 | 17.3 | 109.59 | -435.7 | -699.4 | 870.5 | 845.0 | 25.52 | 34.106 | | |
| 6,100.0 | 6,078.3 | 6,023.7 | 5,961.9 | 13.4 | 17.6 | 109.61 | -444.3 | -712.2 | 886.8 | 860.8 | 25.98 | 34.133 | | |
| 6,200.0 | 6,177.9 | 6,122.4 | 6,059.4 | 13.6 | 17.9 | 109.64 | -452.9 | -725.0 | 903.1 | 876.6 | 26.44 | 34.159 | | |
| 6,300.0 | 6,277.5 | 6,221.0 | 6,156.8 | 13.9 | 18.2 | 109.66 | -461.5 | -737.8 | 919.4 | 892.5 | 26.90 | 34.184 | | |
| 6,400.0 | 6,377.0 | 6,319.7 | 6,254.3 | 14.1 | 18.6 | 109.68 | -470.1 | -750.6 | 935.7 | 908.3 | 27.35 | 34.207 | | |
| 6,500.0 | 6,476.6 | 6,418.4 | 6,351.7 | 14.3 | 18.9 | 109.70 | -478.7 | -763.4 | 952.0 | 924.2 | 27.81 | 34.230 | | |
| 6,600.0 | 6,576.2 | 6,517.0 | 6,449.1 | 14.6 | 19.2 | 109.71 | -487.3 | -776.2 | 968.3 | 940.0 | 28.27 | 34.253 | | |
| 6,700.0 | 6,675.7 | 6,615.7 | 6,546.6 | 14.8 | 19.5 | 109.73 | -495.9 | -789.0 | 984.6 | 955.9 | 28.73 | 34.274 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - 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 | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -89.95 | 0.0 | -40.0 | 40.0 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.95 | 0.0 | -40.0 | 40.0 | 39.8 | 0.24 | 168.521 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.95 | 0.0 | -40.0 | 40.0 | 39.4 | 0.59 | 68.211 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.95 | 0.0 | -40.0 | 40.0 | 39.1 | 0.94 | 42.759 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -89.95 | 0.0 | -40.0 | 40.0 | 38.7 | 1.28 | 31.140 | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 0.8 | 0.8 | -89.95 | 0.0 | -40.0 | 40.0 | 38.4 | 1.63 | 24.486 | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.0 | 1.0 | -89.95 | 0.0 | -40.0 | 40.0 | 38.0 | 1.98 | 20.175 | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.2 | 1.2 | -89.95 | 0.0 | -40.0 | 40.0 | 37.7 | 2.33 | 17.155 | | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.3 | 1.3 | -89.95 | 0.0 | -40.0 | 40.0 | 37.3 | 2.68 | 14.921 CC, ES | | |
| 900.0 | 900.0 | 898.9 | 898.9 | 1.5 | 1.5 | -91.53 | -1.1 | -41.3 | 41.3 | 38.3 | 3.03 | 13.637 | | |
| 1,000.0 | 1,000.0 | 997.6 | 997.5 | 1.7 | 1.7 | -95.69 | -4.5 | -45.1 | 45.4 | 42.0 | 3.38 | 13.421 | | |
| 1,100.0 | 1,100.0 | 1,095.9 | 1,095.4 | 1.9 | 1.9 | 101.58 | -10.1 | -51.4 | 52.9 | 49.2 | 3.73 | 14.182 | | |
| 1,200.0 | 1,199.8 | 1,193.9 | 1,192.6 | 2.0 | 2.1 | 100.25 | -17.9 | -60.2 | 64.1 | 60.0 | 4.10 | 15.649 | | |
| 1,300.0 | 1,299.5 | 1,293.0 | 1,291.0 | 2.2 | 2.3 | 101.30 | -26.5 | -69.9 | 76.9 | 72.4 | 4.48 | 17.159 | | |
| 1,400.0 | 1,399.0 | 1,392.2 | 1,389.2 | 2.4 | 2.6 | 102.70 | -35.2 | -79.6 | 89.9 | 85.0 | 4.88 | 18.418 | | |
| 1,500.0 | 1,498.6 | 1,491.3 | 1,487.5 | 2.6 | 2.8 | 103.74 | -43.8 | -89.3 | 102.9 | 97.6 | 5.29 | 19.457 | | |
| 1,600.0 | 1,598.1 | 1,590.4 | 1,585.8 | 2.9 | 3.1 | 104.55 | -52.5 | -99.0 | 115.9 | 110.2 | 5.70 | 20.323 | | |
| 1,700.0 | 1,697.7 | 1,689.6 | 1,684.1 | 3.1 | 3.4 | 105.20 | -61.1 | -108.7 | 129.0 | 122.9 | 6.13 | 21.053 | | |
| 1,800.0 | 1,797.3 | 1,788.7 | 1,782.3 | 3.3 | 3.6 | 105.72 | -69.7 | -118.4 | 142.1 | 135.5 | 6.55 | 21.673 | | |
| 1,900.0 | 1,896.8 | 1,887.8 | 1,880.6 | 3.5 | 3.9 | 106.16 | -78.4 | -128.1 | 155.1 | 148.2 | 6.99 | 22.205 | | |
| 2,000.0 | 1,996.4 | 1,987.0 | 1,978.9 | 3.7 | 4.2 | 106.53 | -87.0 | -137.9 | 168.2 | 160.8 | 7.42 | 22.665 | | |
| 2,100.0 | 2,095.9 | 2,086.1 | 2,077.2 | 4.0 | 4.4 | 106.85 | -95.7 | -147.6 | 181.3 | 173.5 | 7.86 | 23.067 | | |
| 2,200.0 | 2,195.5 | 2,185.2 | 2,175.5 | 4.2 | 4.7 | 107.12 | -104.3 | -157.3 | 194.4 | 186.1 | 8.30 | 23.420 | | |
| 2,300.0 | 2,295.1 | 2,284.4 | 2,273.7 | 4.4 | 5.0 | 107.36 | -113.0 | -167.0 | 207.6 | 198.8 | 8.75 | 23.732 | | |
| 2,400.0 | 2,394.6 | 2,383.5 | 2,372.0 | 4.7 | 5.3 | 107.57 | -121.6 | -176.7 | 220.7 | 211.5 | 9.19 | 24.010 | | |
| 2,500.0 | 2,494.2 | 2,482.6 | 2,470.3 | 4.9 | 5.6 | 107.76 | -130.2 | -186.4 | 233.8 | 224.1 | 9.64 | 24.258 | | |
| 2,600.0 | 2,593.7 | 2,581.8 | 2,568.6 | 5.1 | 5.8 | 107.93 | -138.9 | -196.1 | 246.9 | 236.8 | 10.08 | 24.482 | | |
| 2,700.0 | 2,693.3 | 2,680.9 | 2,666.8 | 5.4 | 6.1 | 108.08 | -147.5 | -205.8 | 260.0 | 249.5 | 10.53 | 24.684 | | |
| 2,800.0 | 2,792.9 | 2,780.0 | 2,765.1 | 5.6 | 6.4 | 108.21 | -156.2 | -215.5 | 273.1 | 262.1 | 10.98 | 24.868 | | |
| 2,900.0 | 2,892.4 | 2,879.2 | 2,863.4 | 5.8 | 6.7 | 108.34 | -164.8 | -225.3 | 286.3 | 274.8 | 11.43 | 25.035 | | |
| 3,000.0 | 2,992.0 | 2,978.3 | 2,961.7 | 6.1 | 7.0 | 108.45 | -173.4 | -235.0 | 299.4 | 287.5 | 11.89 | 25.188 | | |
| 3,100.0 | 3,091.5 | 3,077.4 | 3,060.0 | 6.3 | 7.2 | 108.55 | -182.1 | -244.7 | 312.5 | 300.2 | 12.34 | 25.328 | | |
| 3,200.0 | 3,191.1 | 3,176.6 | 3,158.2 | 6.5 | 7.5 | 108.65 | -190.7 | -254.4 | 325.6 | 312.8 | 12.79 | 25.458 | | |
| 3,300.0 | 3,290.7 | 3,275.7 | 3,256.5 | 6.8 | 7.8 | 108.73 | -199.4 | -264.1 | 338.7 | 325.5 | 13.24 | 25.577 | | |
| 3,400.0 | 3,390.2 | 3,374.8 | 3,354.8 | 7.0 | 8.1 | 108.82 | -208.0 | -273.8 | 351.9 | 338.2 | 13.70 | 25.688 | | |
| 3,500.0 | 3,489.8 | 3,474.0 | 3,453.1 | 7.2 | 8.4 | 108.89 | -216.6 | -283.5 | 365.0 | 350.8 | 14.15 | 25.790 | | |
| 3,600.0 | 3,589.3 | 3,573.1 | 3,551.3 | 7.5 | 8.7 | 108.96 | -225.3 | -293.2 | 378.1 | 363.5 | 14.61 | 25.886 | | |
| 3,700.0 | 3,688.9 | 3,672.3 | 3,649.6 | 7.7 | 8.9 | 109.03 | -233.9 | -302.9 | 391.3 | 376.2 | 15.06 | 25.975 | | |
| 3,800.0 | 3,788.5 | 3,771.4 | 3,747.9 | 7.9 | 9.2 | 109.09 | -242.6 | -312.7 | 404.4 | 388.9 | 15.52 | 26.059 | | |
| 3,900.0 | 3,888.0 | 3,870.5 | 3,846.2 | 8.2 | 9.5 | 109.14 | -251.2 | -322.4 | 417.5 | 401.5 | 15.97 | 26.137 | | |
| 4,000.0 | 3,987.6 | 3,969.7 | 3,944.5 | 8.4 | 9.8 | 109.20 | -259.8 | -332.1 | 430.6 | 414.2 | 16.43 | 26.211 | | |
| 4,100.0 | 4,087.1 | 4,068.8 | 4,042.7 | 8.6 | 10.1 | 109.25 | -268.5 | -341.8 | 443.8 | 426.9 | 16.89 | 26.280 | | |
| 4,200.0 | 4,186.7 | 4,167.9 | 4,141.0 | 8.9 | 10.4 | 109.30 | -277.1 | -351.5 | 456.9 | 439.6 | 17.34 | 26.345 | | |
| 4,300.0 | 4,286.3 | 4,267.1 | 4,239.3 | 9.1 | 10.6 | 109.34 | -285.8 | -361.2 | 470.0 | 452.2 | 17.80 | 26.406 | | |
| 4,400.0 | 4,385.8 | 4,366.2 | 4,337.6 | 9.4 | 10.9 | 109.38 | -294.4 | -370.9 | 483.2 | 464.9 | 18.26 | 26.464 | | |
| 4,500.0 | 4,485.4 | 4,465.3 | 4,435.8 | 9.6 | 11.2 | 109.42 | -303.0 | -380.6 | 496.3 | 477.6 | 18.71 | 26.519 | | |
| 4,600.0 | 4,584.9 | 4,564.5 | 4,534.1 | 9.8 | 11.5 | 109.46 | -311.7 | -390.3 | 509.4 | 490.2 | 19.17 | 26.572 | | |
| 4,700.0 | 4,684.5 | 4,663.6 | 4,632.4 | 10.1 | 11.8 | 109.50 | -320.3 | -400.1 | 522.6 | 502.9 | 19.63 | 26.621 | | |
| 4,800.0 | 4,784.1 | 4,762.7 | 4,730.7 | 10.3 | 12.1 | 109.53 | -329.0 | -409.8 | 535.7 | 515.6 | 20.09 | 26.668 | | |
| 4,900.0 | 4,883.6 | 4,861.9 | 4,829.0 | 10.5 | 12.3 | 109.57 | -337.6 | -419.5 | 548.8 | 528.3 | 20.54 | 26.713 | | |
| 5,000.0 | 4,983.2 | 4,961.0 | 4,927.2 | 10.8 | 12.6 | 109.60 | -346.2 | -429.2 | 561.9 | 540.9 | 21.00 | 26.756 | | |
| 5,100.0 | 5,082.7 | 5,060.1 | 5,025.5 | 11.0 | 12.9 | 109.63 | -354.9 | -438.9 | 575.1 | 553.6 | 21.46 | 26.796 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,200.0 | 5,182.3 | 5,159.3 | 5,123.8 | 11.3 | 13.2 | 109.65 | -363.5 | -448.6 | 588.2 | 566.3 | 21.92 | 26.835 | | |
| 5,300.0 | 5,281.9 | 5,258.4 | 5,222.1 | 11.5 | 13.5 | 109.68 | -372.2 | -458.3 | 601.3 | 579.0 | 22.38 | 26.872 | | |
| 5,400.0 | 5,381.4 | 5,357.5 | 5,320.3 | 11.7 | 13.8 | 109.71 | -380.8 | -468.0 | 614.5 | 591.6 | 22.84 | 26.908 | | |
| 5,500.0 | 5,481.0 | 5,456.7 | 5,418.6 | 12.0 | 14.1 | 109.73 | -389.4 | -477.7 | 627.6 | 604.3 | 23.29 | 26.942 | | |
| 5,600.0 | 5,580.5 | 5,555.8 | 5,516.9 | 12.2 | 14.3 | 109.76 | -398.1 | -487.5 | 640.7 | 617.0 | 23.75 | 26.974 | | |
| 5,700.0 | 5,680.1 | 5,654.9 | 5,615.2 | 12.4 | 14.6 | 109.78 | -406.7 | -497.2 | 653.9 | 629.7 | 24.21 | 27.006 | | |
| 5,800.0 | 5,779.7 | 5,754.1 | 5,713.5 | 12.7 | 14.9 | 109.80 | -415.4 | -506.9 | 667.0 | 642.3 | 24.67 | 27.036 | | |
| 5,900.0 | 5,879.2 | 5,853.2 | 5,811.7 | 12.9 | 15.2 | 109.82 | -424.0 | -516.6 | 680.1 | 655.0 | 25.13 | 27.065 | | |
| 6,000.0 | 5,978.8 | 5,952.3 | 5,910.0 | 13.2 | 15.5 | 109.84 | -432.7 | -526.3 | 693.3 | 667.7 | 25.59 | 27.092 | | |
| 6,100.0 | 6,078.3 | 6,051.5 | 6,008.3 | 13.4 | 15.8 | 109.86 | -441.3 | -536.0 | 706.4 | 680.4 | 26.05 | 27.119 | | |
| 6,200.0 | 6,177.9 | 6,150.6 | 6,106.6 | 13.6 | 16.0 | 109.88 | -449.9 | -545.7 | 719.5 | 693.0 | 26.51 | 27.145 | | |
| 6,300.0 | 6,277.5 | 6,249.7 | 6,204.8 | 13.9 | 16.3 | 109.90 | -458.6 | -555.4 | 732.7 | 705.7 | 26.97 | 27.169 | | |
| 6,400.0 | 6,377.0 | 6,348.9 | 6,303.1 | 14.1 | 16.6 | 109.92 | -467.2 | -565.1 | 745.8 | 718.4 | 27.43 | 27.193 | | |
| 6,500.0 | 6,476.6 | 6,448.0 | 6,401.4 | 14.3 | 16.9 | 109.94 | -475.9 | -574.9 | 758.9 | 731.0 | 27.89 | 27.216 | | |
| 6,600.0 | 6,576.2 | 6,547.1 | 6,499.7 | 14.6 | 17.2 | 109.95 | -484.5 | -584.6 | 772.1 | 743.7 | 28.34 | 27.239 | | |
| 6,700.0 | 6,675.7 | 6,646.3 | 6,598.0 | 14.8 | 17.5 | 109.97 | -493.1 | -594.3 | 785.2 | 756.4 | 28.80 | 27.260 | | |
| 6,800.0 | 6,775.3 | 6,745.4 | 6,696.2 | 15.1 | 17.8 | 109.98 | -501.8 | -604.0 | 798.3 | 769.1 | 29.26 | 27.281 | | |
| 6,900.0 | 6,874.8 | 6,844.5 | 6,794.5 | 15.3 | 18.0 | 110.00 | -510.4 | -613.7 | 811.5 | 781.7 | 29.72 | 27.301 | | |
| 7,000.0 | 6,974.4 | 6,943.8 | 6,893.0 | 15.5 | 18.3 | 110.03 | -518.8 | -623.4 | 824.6 | 794.4 | 30.18 | 27.326 | | |
| 7,100.0 | 7,074.1 | 7,043.0 | 6,991.5 | 15.7 | 18.5 | -138.68 | -515.8 | -633.2 | 837.7 | 807.2 | 30.51 | 27.460 | | |
| 7,200.0 | 7,173.3 | 7,140.7 | 7,086.6 | 15.7 | 18.5 | -97.21 | -496.1 | -642.6 | 850.9 | 820.4 | 30.52 | 27.883 | | |
| 7,300.0 | 7,268.9 | 7,237.2 | 7,175.9 | 15.5 | 18.4 | -91.18 | -461.1 | -651.4 | 863.6 | 833.4 | 30.21 | 28.590 | | |
| 7,400.0 | 7,358.1 | 7,332.6 | 7,257.3 | 15.3 | 18.2 | -88.02 | -412.2 | -659.4 | 875.6 | 845.9 | 29.64 | 29.540 | | |
| 7,500.0 | 7,438.1 | 7,427.1 | 7,328.9 | 14.9 | 18.0 | -85.81 | -351.0 | -666.5 | 886.3 | 857.4 | 28.91 | 30.657 | | |
| 7,600.0 | 7,506.6 | 7,521.0 | 7,389.1 | 14.6 | 17.8 | -84.17 | -279.3 | -672.5 | 895.5 | 867.4 | 28.15 | 31.817 | | |
| 7,700.0 | 7,561.5 | 7,614.4 | 7,436.7 | 14.3 | 17.6 | -82.95 | -199.2 | -677.2 | 902.9 | 875.4 | 27.50 | 32.834 | | |
| 7,800.0 | 7,601.0 | 7,707.4 | 7,470.5 | 14.2 | 17.6 | -82.11 | -112.8 | -680.5 | 908.3 | 881.1 | 27.13 | 33.478 | | |
| 7,900.0 | 7,624.0 | 7,800.0 | 7,490.0 | 14.3 | 17.7 | -81.62 | -22.4 | -682.4 | 911.4 | 884.2 | 27.17 | 33.543 | | |
| 8,000.0 | 7,630.0 | 7,894.2 | 7,495.0 | 14.5 | 17.9 | -81.49 | 71.6 | -682.9 | 912.2 | 884.5 | 27.69 | 32.943 | | |
| 8,100.0 | 7,630.0 | 7,994.2 | 7,495.0 | 15.0 | 18.2 | -81.49 | 171.6 | -682.9 | 912.2 | 883.6 | 28.65 | 31.841 | | |
| 8,200.0 | 7,630.0 | 8,094.2 | 7,495.0 | 15.6 | 18.8 | -81.49 | 271.6 | -682.9 | 912.2 | 882.2 | 29.97 | 30.432 | | |
| 8,300.0 | 7,630.0 | 8,194.2 | 7,495.0 | 16.4 | 19.4 | -81.49 | 371.6 | -682.9 | 912.2 | 880.6 | 31.63 | 28.842 | | |
| 8,400.0 | 7,630.0 | 8,294.2 | 7,495.0 | 17.4 | 20.2 | -81.49 | 471.6 | -682.9 | 912.2 | 878.6 | 33.56 | 27.181 | | |
| 8,500.0 | 7,630.0 | 8,394.2 | 7,495.0 | 18.5 | 21.2 | -81.49 | 571.6 | -682.9 | 912.2 | 876.5 | 35.72 | 25.534 | | |
| 8,600.0 | 7,630.0 | 8,494.2 | 7,495.0 | 19.6 | 22.2 | -81.49 | 671.6 | -682.9 | 912.2 | 874.1 | 38.08 | 23.953 | | |
| 8,700.0 | 7,630.0 | 8,594.2 | 7,495.0 | 20.9 | 23.3 | -81.49 | 771.6 | -682.9 | 912.2 | 871.6 | 40.60 | 22.467 | | |
| 8,800.0 | 7,630.0 | 8,694.2 | 7,495.0 | 22.2 | 24.5 | -81.49 | 871.6 | -682.9 | 912.2 | 869.0 | 43.25 | 21.090 | | |
| 8,900.0 | 7,630.0 | 8,794.2 | 7,495.0 | 23.6 | 25.7 | -81.49 | 971.6 | -682.9 | 912.2 | 866.2 | 46.01 | 19.825 | | |
| 9,000.0 | 7,630.0 | 8,894.2 | 7,495.0 | 25.0 | 27.0 | -81.49 | 1,071.6 | -682.9 | 912.2 | 863.3 | 48.86 | 18.669 | | |
| 9,100.0 | 7,630.0 | 8,994.2 | 7,495.0 | 26.4 | 28.4 | -81.49 | 1,171.6 | -682.9 | 912.2 | 860.4 | 51.79 | 17.614 | | |
| 9,200.0 | 7,630.0 | 9,094.2 | 7,495.0 | 27.9 | 29.8 | -81.49 | 1,271.6 | -682.9 | 912.2 | 857.4 | 54.78 | 16.653 | | |
| 9,300.0 | 7,630.0 | 9,194.2 | 7,495.0 | 29.5 | 31.2 | -81.49 | 1,371.6 | -682.9 | 912.2 | 854.4 | 57.82 | 15.776 | | |
| 9,400.0 | 7,630.0 | 9,294.2 | 7,495.0 | 31.0 | 32.7 | -81.49 | 1,471.6 | -682.9 | 912.2 | 851.3 | 60.91 | 14.976 | | |
| 9,500.0 | 7,630.0 | 9,394.2 | 7,495.0 | 32.6 | 34.2 | -81.49 | 1,571.6 | -682.9 | 912.2 | 848.2 | 64.04 | 14.245 | | |
| 9,600.0 | 7,630.0 | 9,494.2 | 7,495.0 | 34.2 | 35.7 | -81.49 | 1,671.6 | -682.9 | 912.2 | 845.0 | 67.20 | 13.574 | | |
| 9,700.0 | 7,630.0 | 9,594.2 | 7,495.0 | 35.8 | 37.2 | -81.49 | 1,771.6 | -682.9 | 912.2 | 841.8 | 70.39 | 12.959 | | |
| 9,800.0 | 7,630.0 | 9,694.2 | 7,495.0 | 37.4 | 38.8 | -81.49 | 1,871.6 | -682.9 | 912.2 | 838.6 | 73.61 | 12.393 | | |
| 9,900.0 | 7,630.0 | 9,794.2 | 7,495.0 | 39.0 | 40.4 | -81.49 | 1,971.6 | -682.9 | 912.2 | 835.4 | 76.84 | 11.871 | | |
| 10,000.0 | 7,630.0 | 9,894.2 | 7,495.0 | 40.7 | 41.9 | -81.49 | 2,071.6 | -682.9 | 912.2 | 832.1 | 80.10 | 11.388 | | |
| 10,100.0 | 7,630.0 | 9,994.2 | 7,495.0 | 42.3 | 43.5 | -81.49 | 2,171.6 | -682.9 | 912.2 | 828.8 | 83.38 | 10.941 | | |
| 10,200.0 | 7,630.0 | 10,094.2 | 7,495.0 | 44.0 | 45.1 | -81.49 | 2,271.6 | -682.9 | 912.2 | 825.5 | 86.67 | 10.525 | | |
| 10,300.0 | 7,630.0 | 10,194.2 | 7,495.0 | 45.6 | 46.8 | -81.49 | 2,371.6 | -682.9 | 912.2 | 822.2 | 89.97 | 10.139 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4G-26H-P268 - 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 | 7,630.0 | 10,294.2 | 7,495.0 | 47.3 | 48.4 | -81.49 | 2,471.6 | -682.9 | 912.2 | 818.9 | 93.28 | 9.779 | |
| 10,500.0 | 7,630.0 | 10,394.2 | 7,495.0 | 49.0 | 50.0 | -81.49 | 2,571.6 | -682.9 | 912.2 | 815.6 | 96.61 | 9.442 | |
| 10,600.0 | 7,630.0 | 10,494.2 | 7,495.0 | 50.7 | 51.7 | -81.49 | 2,671.6 | -682.9 | 912.2 | 812.3 | 99.95 | 9.127 | |
| 10,700.0 | 7,630.0 | 10,594.2 | 7,495.0 | 52.3 | 53.3 | -81.49 | 2,771.6 | -682.9 | 912.2 | 808.9 | 103.29 | 8.831 | |
| 10,800.0 | 7,630.0 | 10,694.2 | 7,495.0 | 54.0 | 55.0 | -81.49 | 2,871.6 | -682.9 | 912.2 | 805.6 | 106.64 | 8.554 | |
| 10,900.0 | 7,630.0 | 10,794.2 | 7,495.0 | 55.7 | 56.7 | -81.49 | 2,971.6 | -682.9 | 912.2 | 802.2 | 110.00 | 8.292 | |
| 11,000.0 | 7,630.0 | 10,894.2 | 7,495.0 | 57.4 | 58.3 | -81.49 | 3,071.6 | -682.9 | 912.2 | 798.8 | 113.37 | 8.046 | |
| 11,100.0 | 7,630.0 | 10,994.2 | 7,495.0 | 59.1 | 60.0 | -81.49 | 3,171.6 | -682.9 | 912.2 | 795.5 | 116.74 | 7.814 | |
| 11,200.0 | 7,630.0 | 11,094.2 | 7,495.0 | 60.8 | 61.7 | -81.49 | 3,271.6 | -682.9 | 912.2 | 792.1 | 120.12 | 7.594 | |
| 11,300.0 | 7,630.0 | 11,194.2 | 7,495.0 | 62.5 | 63.4 | -81.49 | 3,371.6 | -682.9 | 912.2 | 788.7 | 123.51 | 7.386 | |
| 11,400.0 | 7,630.0 | 11,294.2 | 7,495.0 | 64.2 | 65.1 | -81.49 | 3,471.6 | -682.9 | 912.2 | 785.3 | 126.89 | 7.189 | |
| 11,500.0 | 7,630.0 | 11,394.2 | 7,495.0 | 66.0 | 66.7 | -81.49 | 3,571.6 | -682.9 | 912.2 | 781.9 | 130.29 | 7.001 | |
| 11,600.0 | 7,630.0 | 11,494.2 | 7,495.0 | 67.7 | 68.4 | -81.49 | 3,671.6 | -682.9 | 912.2 | 778.5 | 133.68 | 6.824 | |
| 11,700.0 | 7,630.0 | 11,594.2 | 7,495.0 | 69.4 | 70.1 | -81.49 | 3,771.6 | -682.9 | 912.2 | 775.1 | 137.08 | 6.654 | |
| 11,800.0 | 7,630.0 | 11,694.2 | 7,495.0 | 71.1 | 71.8 | -81.49 | 3,871.6 | -682.9 | 912.2 | 771.7 | 140.49 | 6.493 | |
| 11,900.0 | 7,630.0 | 11,794.2 | 7,495.0 | 72.8 | 73.5 | -81.49 | 3,971.6 | -682.9 | 912.2 | 768.3 | 143.89 | 6.339 | |
| 12,000.0 | 7,630.0 | 11,894.2 | 7,495.0 | 74.5 | 75.2 | -81.49 | 4,071.6 | -682.9 | 912.2 | 764.9 | 147.30 | 6.193 | |
| 12,100.0 | 7,630.0 | 11,994.2 | 7,495.0 | 76.3 | 76.9 | -81.49 | 4,171.6 | -682.9 | 912.2 | 761.5 | 150.72 | 6.052 | |
| 12,200.0 | 7,630.0 | 12,094.2 | 7,495.0 | 78.0 | 78.7 | -81.49 | 4,271.6 | -682.9 | 912.2 | 758.1 | 154.13 | 5.918 | |
| 12,300.0 | 7,630.0 | 12,194.2 | 7,495.0 | 79.7 | 80.4 | -81.49 | 4,371.6 | -682.9 | 912.2 | 754.7 | 157.55 | 5.790 | |
| 12,400.0 | 7,630.0 | 12,294.2 | 7,495.0 | 81.4 | 82.1 | -81.49 | 4,471.6 | -682.9 | 912.2 | 751.2 | 160.97 | 5.667 | |
| 12,500.0 | 7,630.0 | 12,394.2 | 7,495.0 | 83.2 | 83.8 | -81.49 | 4,571.6 | -682.9 | 912.2 | 747.8 | 164.39 | 5.549 | |
| 12,600.0 | 7,630.0 | 12,494.2 | 7,495.0 | 84.9 | 85.5 | -81.49 | 4,671.6 | -682.9 | 912.2 | 744.4 | 167.81 | 5.436 | |
| 12,700.0 | 7,630.0 | 12,594.2 | 7,495.0 | 86.6 | 87.2 | -81.49 | 4,771.6 | -682.9 | 912.2 | 741.0 | 171.24 | 5.327 | |
| 12,800.0 | 7,630.0 | 12,694.2 | 7,495.0 | 88.4 | 88.9 | -81.49 | 4,871.6 | -682.9 | 912.2 | 737.5 | 174.66 | 5.223 | |
| 12,900.0 | 7,630.0 | 12,794.2 | 7,495.0 | 90.1 | 90.7 | -81.49 | 4,971.6 | -682.9 | 912.2 | 734.1 | 178.09 | 5.122 | |
| 13,000.0 | 7,630.0 | 12,894.2 | 7,495.0 | 91.8 | 92.4 | -81.49 | 5,071.6 | -682.9 | 912.2 | 730.7 | 181.52 | 5.025 | |
| 13,100.0 | 7,630.0 | 12,994.2 | 7,495.0 | 93.6 | 94.1 | -81.49 | 5,171.6 | -682.9 | 912.2 | 727.2 | 184.96 | 4.932 | |
| 13,200.0 | 7,630.0 | 13,094.2 | 7,495.0 | 95.3 | 95.8 | -81.49 | 5,271.6 | -682.9 | 912.2 | 723.8 | 188.39 | 4.842 | |
| 13,300.0 | 7,630.0 | 13,194.2 | 7,495.0 | 97.0 | 97.6 | -81.49 | 5,371.6 | -682.9 | 912.2 | 720.4 | 191.82 | 4.755 | |
| 13,400.0 | 7,630.0 | 13,294.2 | 7,495.0 | 98.8 | 99.3 | -81.49 | 5,471.6 | -682.9 | 912.2 | 716.9 | 195.26 | 4.672 | |
| 13,500.0 | 7,630.0 | 13,394.2 | 7,495.0 | 100.5 | 101.0 | -81.49 | 5,571.6 | -682.9 | 912.2 | 713.5 | 198.70 | 4.591 | |
| 13,600.0 | 7,630.0 | 13,494.2 | 7,495.0 | 102.2 | 102.7 | -81.49 | 5,671.6 | -682.9 | 912.2 | 710.1 | 202.14 | 4.513 | |
| 13,700.0 | 7,630.0 | 13,594.2 | 7,495.0 | 104.0 | 104.5 | -81.49 | 5,771.6 | -682.9 | 912.2 | 706.6 | 205.57 | 4.437 | |
| 13,800.0 | 7,630.0 | 13,694.2 | 7,495.0 | 105.7 | 106.2 | -81.49 | 5,871.6 | -682.9 | 912.2 | 703.2 | 209.02 | 4.364 | |
| 13,900.0 | 7,630.0 | 13,794.2 | 7,495.0 | 107.4 | 107.9 | -81.49 | 5,971.6 | -682.9 | 912.2 | 699.7 | 212.46 | 4.294 | |
| 14,000.0 | 7,630.0 | 13,894.2 | 7,495.0 | 109.2 | 109.7 | -81.49 | 6,071.6 | -682.9 | 912.2 | 696.3 | 215.90 | 4.225 | |
| 14,100.0 | 7,630.0 | 13,994.2 | 7,495.0 | 110.9 | 111.4 | -81.49 | 6,171.6 | -682.9 | 912.2 | 692.9 | 219.34 | 4.159 | |
| 14,200.0 | 7,630.0 | 14,094.2 | 7,495.0 | 112.7 | 113.1 | -81.49 | 6,271.6 | -682.9 | 912.2 | 689.4 | 222.79 | 4.095 | |
| 14,300.0 | 7,630.0 | 14,194.2 | 7,495.0 | 114.4 | 114.9 | -81.49 | 6,371.6 | -682.9 | 912.2 | 686.0 | 226.23 | 4.032 SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4H-26H-P268 - 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 | 1.0 | 1.0 | 0.0 | 0.0 | -89.95 | 0.0 | -30.2 | 30.2 | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | -89.95 | 0.0 | -30.2 | 30.2 | 30.0 | 0.24 | 126.346 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | -89.95 | 0.0 | -30.2 | 30.2 | 29.6 | 0.59 | 51.363 | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | -89.95 | 0.0 | -30.2 | 30.2 | 29.3 | 0.94 | 32.233 | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.6 | 0.6 | -89.95 | 0.0 | -30.2 | 30.2 | 28.9 | 1.29 | 23.486 | | |
| 500.0 | 500.0 | 501.0 | 501.0 | 0.8 | 0.8 | -89.95 | 0.0 | -30.2 | 30.2 | 28.6 | 1.64 | 18.473 | | |
| 600.0 | 600.0 | 601.0 | 601.0 | 1.0 | 1.0 | -89.95 | 0.0 | -30.2 | 30.2 | 28.2 | 1.98 | 15.224 | | |
| 700.0 | 700.0 | 701.0 | 701.0 | 1.2 | 1.2 | -89.95 | 0.0 | -30.2 | 30.2 | 27.9 | 2.33 | 12.946 | | |
| 800.0 | 800.0 | 801.0 | 801.0 | 1.3 | 1.3 | -89.95 | 0.0 | -30.2 | 30.2 | 27.5 | 2.68 | 11.262 | | |
| 866.3 | 866.3 | 867.3 | 867.3 | 1.5 | 1.5 | -89.95 | 0.0 | -30.2 | 30.2 | 27.3 | 2.91 | 10.367 CC | | |
| 900.0 | 900.0 | 901.0 | 901.0 | 1.5 | 1.5 | -89.95 | 0.0 | -30.2 | 30.2 | 27.2 | 3.03 | 9.965 ES | | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1.7 | 1.7 | -92.52 | -1.4 | -31.3 | 31.3 | 27.9 | 3.38 | 9.260 | | |
| 1,100.0 | 1,100.0 | 1,099.5 | 1,099.3 | 1.9 | 1.9 | 104.53 | -5.5 | -34.4 | 35.2 | 31.5 | 3.73 | 9.441 | | |
| 1,200.0 | 1,199.8 | 1,198.3 | 1,197.7 | 2.0 | 2.1 | 102.69 | -12.4 | -39.5 | 42.5 | 38.4 | 4.10 | 10.370 | | |
| 1,300.0 | 1,299.5 | 1,297.7 | 1,296.6 | 2.2 | 2.3 | 103.37 | -21.0 | -45.8 | 52.0 | 47.5 | 4.48 | 11.595 | | |
| 1,400.0 | 1,399.0 | 1,397.2 | 1,395.5 | 2.4 | 2.5 | 104.66 | -29.6 | -52.2 | 61.7 | 56.8 | 4.88 | 12.634 | | |
| 1,500.0 | 1,498.6 | 1,496.7 | 1,494.5 | 2.6 | 2.7 | 105.60 | -38.2 | -58.6 | 71.4 | 66.1 | 5.29 | 13.495 | | |
| 1,600.0 | 1,598.1 | 1,596.3 | 1,593.4 | 2.9 | 2.9 | 106.31 | -46.8 | -65.0 | 81.1 | 75.4 | 5.71 | 14.214 | | |
| 1,700.0 | 1,697.7 | 1,695.8 | 1,692.4 | 3.1 | 3.2 | 106.87 | -55.3 | -71.4 | 90.8 | 84.7 | 6.13 | 14.821 | | |
| 1,800.0 | 1,797.3 | 1,795.3 | 1,791.3 | 3.3 | 3.4 | 107.32 | -63.9 | -77.8 | 100.6 | 94.0 | 6.56 | 15.339 | | |
| 1,900.0 | 1,896.8 | 1,894.8 | 1,890.2 | 3.5 | 3.7 | 107.70 | -72.5 | -84.2 | 110.3 | 103.3 | 6.99 | 15.785 | | |
| 2,000.0 | 1,996.4 | 1,994.3 | 1,989.2 | 3.7 | 3.9 | 108.01 | -81.1 | -90.6 | 120.1 | 112.7 | 7.43 | 16.171 | | |
| 2,100.0 | 2,095.9 | 2,093.9 | 2,088.1 | 4.0 | 4.1 | 108.27 | -89.7 | -97.0 | 129.8 | 122.0 | 7.86 | 16.509 | | |
| 2,200.0 | 2,195.5 | 2,193.4 | 2,187.1 | 4.2 | 4.4 | 108.50 | -98.3 | -103.4 | 139.6 | 131.3 | 8.31 | 16.807 | | |
| 2,300.0 | 2,295.1 | 2,292.9 | 2,286.0 | 4.4 | 4.6 | 108.70 | -106.9 | -109.8 | 149.4 | 140.6 | 8.75 | 17.071 | | |
| 2,400.0 | 2,394.6 | 2,392.4 | 2,385.0 | 4.7 | 4.9 | 108.87 | -115.5 | -116.2 | 159.1 | 149.9 | 9.19 | 17.306 | | |
| 2,500.0 | 2,494.2 | 2,492.0 | 2,483.9 | 4.9 | 5.1 | 109.03 | -124.1 | -122.5 | 168.9 | 159.2 | 9.64 | 17.517 | | |
| 2,600.0 | 2,593.7 | 2,591.5 | 2,582.9 | 5.1 | 5.4 | 109.17 | -132.7 | -128.9 | 178.6 | 168.6 | 10.09 | 17.706 | | |
| 2,700.0 | 2,693.3 | 2,691.0 | 2,681.8 | 5.4 | 5.6 | 109.29 | -141.2 | -135.3 | 188.4 | 177.9 | 10.54 | 17.878 | | |
| 2,800.0 | 2,792.9 | 2,790.5 | 2,780.7 | 5.6 | 5.9 | 109.40 | -149.8 | -141.7 | 198.2 | 187.2 | 10.99 | 18.035 | | |
| 2,900.0 | 2,892.4 | 2,890.0 | 2,879.7 | 5.8 | 6.1 | 109.50 | -158.4 | -148.1 | 207.9 | 196.5 | 11.44 | 18.177 | | |
| 3,000.0 | 2,992.0 | 2,989.6 | 2,978.6 | 6.1 | 6.4 | 109.59 | -167.0 | -154.5 | 217.7 | 205.8 | 11.89 | 18.308 | | |
| 3,100.0 | 3,091.5 | 3,089.1 | 3,077.6 | 6.3 | 6.6 | 109.67 | -175.6 | -160.9 | 227.5 | 215.1 | 12.34 | 18.428 | | |
| 3,200.0 | 3,191.1 | 3,188.6 | 3,176.5 | 6.5 | 6.9 | 109.75 | -184.2 | -167.3 | 237.3 | 224.5 | 12.80 | 18.538 | | |
| 3,300.0 | 3,290.7 | 3,288.1 | 3,275.5 | 6.8 | 7.1 | 109.82 | -192.8 | -173.7 | 247.0 | 233.8 | 13.25 | 18.641 | | |
| 3,400.0 | 3,390.2 | 3,387.6 | 3,374.4 | 7.0 | 7.4 | 109.89 | -201.4 | -180.1 | 256.8 | 243.1 | 13.71 | 18.735 | | |
| 3,500.0 | 3,489.8 | 3,487.2 | 3,473.3 | 7.2 | 7.6 | 109.95 | -210.0 | -186.5 | 266.6 | 252.4 | 14.16 | 18.824 | | |
| 3,600.0 | 3,589.3 | 3,586.7 | 3,572.3 | 7.5 | 7.9 | 110.00 | -218.6 | -192.9 | 276.3 | 261.7 | 14.62 | 18.906 | | |
| 3,700.0 | 3,688.9 | 3,686.2 | 3,671.2 | 7.7 | 8.1 | 110.06 | -227.1 | -199.3 | 286.1 | 271.0 | 15.07 | 18.983 | | |
| 3,800.0 | 3,788.5 | 3,785.7 | 3,770.2 | 7.9 | 8.4 | 110.10 | -235.7 | -205.6 | 295.9 | 280.3 | 15.53 | 19.054 | | |
| 3,900.0 | 3,888.0 | 3,885.3 | 3,869.1 | 8.2 | 8.6 | 110.15 | -244.3 | -212.0 | 305.6 | 289.7 | 15.98 | 19.122 | | |
| 4,000.0 | 3,987.6 | 3,984.8 | 3,968.1 | 8.4 | 8.9 | 110.19 | -252.9 | -218.4 | 315.4 | 299.0 | 16.44 | 19.185 | | |
| 4,100.0 | 4,087.1 | 4,084.3 | 4,067.0 | 8.6 | 9.1 | 110.23 | -261.5 | -224.8 | 325.2 | 308.3 | 16.90 | 19.245 | | |
| 4,200.0 | 4,186.7 | 4,183.8 | 4,165.9 | 8.9 | 9.4 | 110.27 | -270.1 | -231.2 | 334.9 | 317.6 | 17.35 | 19.301 | | |
| 4,300.0 | 4,286.3 | 4,283.3 | 4,264.9 | 9.1 | 9.7 | 110.31 | -278.7 | -237.6 | 344.7 | 326.9 | 17.81 | 19.354 | | |
| 4,400.0 | 4,385.8 | 4,382.9 | 4,363.8 | 9.4 | 9.9 | 110.34 | -287.3 | -244.0 | 354.5 | 336.2 | 18.27 | 19.404 | | |
| 4,500.0 | 4,485.4 | 4,482.4 | 4,462.8 | 9.6 | 10.2 | 110.37 | -295.9 | -250.4 | 364.3 | 345.5 | 18.73 | 19.452 | | |
| 4,600.0 | 4,584.9 | 4,581.9 | 4,561.7 | 9.8 | 10.4 | 110.40 | -304.5 | -256.8 | 374.0 | 354.8 | 19.18 | 19.497 | | |
| 4,700.0 | 4,684.5 | 4,681.4 | 4,660.7 | 10.1 | 10.7 | 110.43 | -313.0 | -263.2 | 383.8 | 364.2 | 19.64 | 19.540 | | |
| 4,800.0 | 4,784.1 | 4,780.9 | 4,759.6 | 10.3 | 10.9 | 110.46 | -321.6 | -269.6 | 393.6 | 373.5 | 20.10 | 19.581 | | |
| 4,900.0 | 4,883.6 | 4,880.5 | 4,858.6 | 10.5 | 11.2 | 110.49 | -330.2 | -276.0 | 403.3 | 382.8 | 20.56 | 19.619 | | |
| 5,000.0 | 4,983.2 | 4,980.0 | 4,957.5 | 10.8 | 11.4 | 110.51 | -338.8 | -282.3 | 413.1 | 392.1 | 21.02 | 19.656 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4H-26H-P268 - 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 |
| 5,100.0 | 5,082.7 | 5,079.5 | 5,056.4 | 11.0 | 11.7 | 110.53 | -347.4 | -288.7 | 422.9 | 401.4 | 21.48 | 19.692 | |
| 5,200.0 | 5,182.3 | 5,179.0 | 5,155.4 | 11.3 | 11.9 | 110.56 | -356.0 | -295.1 | 432.7 | 410.7 | 21.93 | 19.725 | |
| 5,300.0 | 5,281.9 | 5,278.5 | 5,254.3 | 11.5 | 12.2 | 110.58 | -364.6 | -301.5 | 442.4 | 420.0 | 22.39 | 19.758 | |
| 5,400.0 | 5,381.4 | 5,378.1 | 5,353.3 | 11.7 | 12.4 | 110.60 | -373.2 | -307.9 | 452.2 | 429.4 | 22.85 | 19.789 | |
| 5,500.0 | 5,481.0 | 5,477.6 | 5,452.2 | 12.0 | 12.7 | 110.62 | -381.8 | -314.3 | 462.0 | 438.7 | 23.31 | 19.818 | |
| 5,600.0 | 5,580.5 | 5,577.1 | 5,551.2 | 12.2 | 13.0 | 110.64 | -390.4 | -320.7 | 471.8 | 448.0 | 23.77 | 19.846 | |
| 5,700.0 | 5,680.1 | 5,676.6 | 5,650.1 | 12.4 | 13.2 | 110.66 | -398.9 | -327.1 | 481.5 | 457.3 | 24.23 | 19.874 | |
| 5,800.0 | 5,779.7 | 5,776.2 | 5,749.0 | 12.7 | 13.5 | 110.67 | -407.5 | -333.5 | 491.3 | 466.6 | 24.69 | 19.900 | |
| 5,900.0 | 5,879.2 | 5,875.7 | 5,848.0 | 12.9 | 13.7 | 110.69 | -416.1 | -339.9 | 501.1 | 475.9 | 25.15 | 19.925 | |
| 6,000.0 | 5,978.8 | 5,975.2 | 5,946.9 | 13.2 | 14.0 | 110.71 | -424.7 | -346.3 | 510.8 | 485.2 | 25.61 | 19.949 | |
| 6,100.0 | 6,078.3 | 6,074.7 | 6,045.9 | 13.4 | 14.2 | 110.72 | -433.3 | -352.7 | 520.6 | 494.5 | 26.07 | 19.972 | |
| 6,200.0 | 6,177.9 | 6,174.2 | 6,144.8 | 13.6 | 14.5 | 110.74 | -441.9 | -359.1 | 530.4 | 503.9 | 26.53 | 19.995 | |
| 6,300.0 | 6,277.5 | 6,273.8 | 6,243.8 | 13.9 | 14.7 | 110.75 | -450.5 | -365.4 | 540.2 | 513.2 | 26.99 | 20.016 | |
| 6,400.0 | 6,377.0 | 6,373.3 | 6,342.7 | 14.1 | 15.0 | 110.77 | -459.1 | -371.8 | 549.9 | 522.5 | 27.45 | 20.037 | |
| 6,500.0 | 6,476.6 | 6,472.8 | 6,441.7 | 14.3 | 15.2 | 110.78 | -467.7 | -378.2 | 559.7 | 531.8 | 27.91 | 20.057 | |
| 6,600.0 | 6,576.2 | 6,572.3 | 6,540.6 | 14.6 | 15.5 | 110.79 | -476.3 | -384.6 | 569.5 | 541.1 | 28.36 | 20.077 | |
| 6,700.0 | 6,675.7 | 6,671.8 | 6,639.5 | 14.8 | 15.8 | 110.80 | -484.8 | -391.0 | 579.2 | 550.4 | 28.82 | 20.095 | |
| 6,800.0 | 6,775.3 | 6,771.4 | 6,738.5 | 15.1 | 16.0 | 110.82 | -493.4 | -397.4 | 589.0 | 559.7 | 29.28 | 20.113 | |
| 6,900.0 | 6,874.8 | 6,870.9 | 6,837.4 | 15.3 | 16.3 | 110.83 | -502.0 | -403.8 | 598.8 | 569.0 | 29.74 | 20.131 | |
| 7,000.0 | 6,974.4 | 6,970.4 | 6,936.4 | 15.5 | 16.5 | 110.84 | -510.6 | -410.2 | 608.6 | 578.4 | 30.20 | 20.148 | |
| 7,100.0 | 7,074.1 | 7,069.8 | 7,035.2 | 15.7 | 16.7 | -138.95 | -518.6 | -416.6 | 618.3 | 587.8 | 30.59 | 20.214 | |
| 7,200.0 | 7,173.3 | 7,169.8 | 7,134.8 | 15.7 | 16.8 | -99.03 | -513.9 | -423.0 | 628.1 | 597.5 | 30.63 | 20.507 | |
| 7,300.0 | 7,268.9 | 7,271.1 | 7,233.3 | 15.5 | 16.8 | -94.45 | -491.5 | -429.4 | 637.6 | 607.3 | 30.34 | 21.013 | |
| 7,400.0 | 7,358.1 | 7,373.7 | 7,327.4 | 15.3 | 16.6 | -92.61 | -451.6 | -435.5 | 646.6 | 616.8 | 29.80 | 21.699 | |
| 7,500.0 | 7,438.1 | 7,477.7 | 7,414.0 | 14.9 | 16.3 | -91.56 | -394.6 | -441.0 | 654.7 | 625.6 | 29.09 | 22.508 | |
| 7,600.0 | 7,506.6 | 7,582.8 | 7,489.7 | 14.6 | 16.0 | -90.89 | -322.0 | -445.9 | 661.6 | 633.3 | 28.34 | 23.345 | |
| 7,700.0 | 7,561.5 | 7,689.1 | 7,551.5 | 14.3 | 15.7 | -90.43 | -235.8 | -449.9 | 667.2 | 639.5 | 27.72 | 24.068 | |
| 7,800.0 | 7,601.0 | 7,796.3 | 7,596.7 | 14.2 | 15.6 | -90.13 | -138.9 | -452.8 | 671.3 | 643.9 | 27.39 | 24.511 | |
| 7,900.0 | 7,624.0 | 7,904.0 | 7,623.1 | 14.3 | 15.6 | -89.97 | -34.6 | -454.6 | 673.6 | 646.2 | 27.47 | 24.524 | |
| 8,000.0 | 7,630.0 | 8,010.6 | 7,630.0 | 14.5 | 15.9 | -89.92 | 71.6 | -455.0 | 674.2 | 646.2 | 28.03 | 24.058 | |
| 8,100.0 | 7,630.0 | 8,110.6 | 7,630.0 | 15.0 | 16.3 | -89.92 | 171.6 | -455.0 | 674.2 | 645.3 | 28.98 | 23.263 | |
| 8,200.0 | 7,630.0 | 8,210.6 | 7,630.0 | 15.6 | 16.9 | -89.92 | 271.6 | -455.0 | 674.2 | 643.9 | 30.32 | 22.239 | |
| 8,300.0 | 7,630.0 | 8,310.6 | 7,630.0 | 16.4 | 17.7 | -89.92 | 371.6 | -455.0 | 674.2 | 642.3 | 31.98 | 21.081 | |
| 8,400.0 | 7,630.0 | 8,410.6 | 7,630.0 | 17.4 | 18.5 | -89.92 | 471.6 | -455.0 | 674.2 | 640.3 | 33.93 | 19.871 | |
| 8,500.0 | 7,630.0 | 8,510.6 | 7,630.0 | 18.5 | 19.5 | -89.92 | 571.6 | -455.0 | 674.2 | 638.1 | 36.12 | 18.669 | |
| 8,600.0 | 7,630.0 | 8,610.6 | 7,630.0 | 19.6 | 20.6 | -89.92 | 671.6 | -455.0 | 674.2 | 635.7 | 38.50 | 17.515 | |
| 8,700.0 | 7,630.0 | 8,710.6 | 7,630.0 | 20.9 | 21.8 | -89.92 | 771.6 | -455.0 | 674.2 | 633.2 | 41.04 | 16.429 | |
| 8,800.0 | 7,630.0 | 8,810.6 | 7,630.0 | 22.2 | 23.1 | -89.92 | 871.6 | -455.0 | 674.2 | 630.5 | 43.72 | 15.423 | |
| 8,900.0 | 7,630.0 | 8,910.6 | 7,630.0 | 23.6 | 24.4 | -89.92 | 971.6 | -455.0 | 674.2 | 627.7 | 46.50 | 14.499 | |
| 9,000.0 | 7,630.0 | 9,010.6 | 7,630.0 | 25.0 | 25.8 | -89.92 | 1,071.6 | -455.0 | 674.2 | 624.9 | 49.38 | 13.654 | |
| 9,100.0 | 7,630.0 | 9,110.6 | 7,630.0 | 26.4 | 27.2 | -89.92 | 1,171.6 | -455.0 | 674.2 | 621.9 | 52.34 | 12.882 | |
| 9,200.0 | 7,630.0 | 9,210.6 | 7,630.0 | 27.9 | 28.7 | -89.92 | 1,271.6 | -455.0 | 674.2 | 618.9 | 55.36 | 12.179 | |
| 9,300.0 | 7,630.0 | 9,310.6 | 7,630.0 | 29.5 | 30.2 | -89.92 | 1,371.6 | -455.0 | 674.2 | 615.8 | 58.43 | 11.539 | |
| 9,400.0 | 7,630.0 | 9,410.6 | 7,630.0 | 31.0 | 31.7 | -89.92 | 1,471.6 | -455.0 | 674.2 | 612.7 | 61.56 | 10.953 | |
| 9,500.0 | 7,630.0 | 9,510.6 | 7,630.0 | 32.6 | 33.2 | -89.92 | 1,571.6 | -455.0 | 674.2 | 609.5 | 64.72 | 10.418 | |
| 9,600.0 | 7,630.0 | 9,610.6 | 7,630.0 | 34.2 | 34.8 | -89.92 | 1,671.6 | -455.0 | 674.2 | 606.3 | 67.91 | 9.928 | |
| 9,700.0 | 7,630.0 | 9,710.6 | 7,630.0 | 35.8 | 36.3 | -89.92 | 1,771.6 | -455.0 | 674.2 | 603.1 | 71.14 | 9.478 | |
| 9,800.0 | 7,630.0 | 9,810.6 | 7,630.0 | 37.4 | 37.9 | -89.92 | 1,871.6 | -455.0 | 674.2 | 599.9 | 74.39 | 9.064 | |
| 9,900.0 | 7,630.0 | 9,910.6 | 7,630.0 | 39.0 | 39.5 | -89.92 | 1,971.6 | -455.0 | 674.2 | 596.6 | 77.66 | 8.682 | |
| 10,000.0 | 7,630.0 | 10,010.6 | 7,630.0 | 40.7 | 41.2 | -89.92 | 2,071.6 | -455.0 | 674.2 | 593.3 | 80.95 | 8.329 | |
| 10,100.0 | 7,630.0 | 10,110.6 | 7,630.0 | 42.3 | 42.8 | -89.92 | 2,171.6 | -455.0 | 674.2 | 590.0 | 84.26 | 8.002 | |
| 10,200.0 | 7,630.0 | 10,210.6 | 7,630.0 | 44.0 | 44.4 | -89.92 | 2,271.6 | -455.0 | 674.2 | 586.7 | 87.59 | 7.698 | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4H-26H-P268 - 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 |
| 10,300.0 | 7,630.0 | 10,310.6 | 7,630.0 | 45.6 | 46.1 | -89.92 | 2,371.6 | -455.0 | 674.2 | 583.3 | 90.93 | 7.415 | |
| 10,400.0 | 7,630.0 | 10,410.6 | 7,630.0 | 47.3 | 47.7 | -89.92 | 2,471.6 | -455.0 | 674.2 | 580.0 | 94.28 | 7.152 | |
| 10,500.0 | 7,630.0 | 10,510.6 | 7,630.0 | 49.0 | 49.4 | -89.92 | 2,571.6 | -455.0 | 674.2 | 576.6 | 97.64 | 6.905 | |
| 10,600.0 | 7,630.0 | 10,610.6 | 7,630.0 | 50.7 | 51.1 | -89.92 | 2,671.6 | -455.0 | 674.2 | 573.2 | 101.01 | 6.675 | |
| 10,700.0 | 7,630.0 | 10,710.6 | 7,630.0 | 52.3 | 52.7 | -89.92 | 2,771.6 | -455.0 | 674.2 | 569.8 | 104.39 | 6.459 | |
| 10,800.0 | 7,630.0 | 10,810.6 | 7,630.0 | 54.0 | 54.4 | -89.92 | 2,871.6 | -455.0 | 674.2 | 566.5 | 107.78 | 6.256 | |
| 10,900.0 | 7,630.0 | 10,910.6 | 7,630.0 | 55.7 | 56.1 | -89.92 | 2,971.6 | -455.0 | 674.2 | 563.1 | 111.18 | 6.064 | |
| 11,000.0 | 7,630.0 | 11,010.6 | 7,630.0 | 57.4 | 57.8 | -89.92 | 3,071.6 | -455.0 | 674.2 | 559.7 | 114.58 | 5.884 | |
| 11,100.0 | 7,630.0 | 11,110.6 | 7,630.0 | 59.1 | 59.5 | -89.92 | 3,171.6 | -455.0 | 674.2 | 556.2 | 117.99 | 5.714 | |
| 11,200.0 | 7,630.0 | 11,210.6 | 7,630.0 | 60.8 | 61.2 | -89.92 | 3,271.6 | -455.0 | 674.2 | 552.8 | 121.41 | 5.554 | |
| 11,300.0 | 7,630.0 | 11,310.6 | 7,630.0 | 62.5 | 62.9 | -89.92 | 3,371.6 | -455.0 | 674.2 | 549.4 | 124.83 | 5.401 | |
| 11,400.0 | 7,630.0 | 11,410.6 | 7,630.0 | 64.2 | 64.6 | -89.92 | 3,471.6 | -455.0 | 674.2 | 546.0 | 128.25 | 5.257 | |
| 11,500.0 | 7,630.0 | 11,510.6 | 7,630.0 | 66.0 | 66.3 | -89.92 | 3,571.6 | -455.0 | 674.2 | 542.6 | 131.68 | 5.120 | |
| 11,600.0 | 7,630.0 | 11,610.6 | 7,630.0 | 67.7 | 68.0 | -89.92 | 3,671.6 | -455.0 | 674.2 | 539.1 | 135.12 | 4.990 | |
| 11,700.0 | 7,630.0 | 11,710.6 | 7,630.0 | 69.4 | 69.7 | -89.92 | 3,771.6 | -455.0 | 674.2 | 535.7 | 138.55 | 4.866 | |
| 11,800.0 | 7,630.0 | 11,810.6 | 7,630.0 | 71.1 | 71.4 | -89.92 | 3,871.6 | -455.0 | 674.2 | 532.2 | 141.99 | 4.748 | |
| 11,900.0 | 7,630.0 | 11,910.6 | 7,630.0 | 72.8 | 73.1 | -89.92 | 3,971.6 | -455.0 | 674.2 | 528.8 | 145.44 | 4.636 | |
| 12,000.0 | 7,630.0 | 12,010.6 | 7,630.0 | 74.5 | 74.8 | -89.92 | 4,071.6 | -455.0 | 674.2 | 525.4 | 148.89 | 4.529 | |
| 12,100.0 | 7,630.0 | 12,110.6 | 7,630.0 | 76.3 | 76.5 | -89.92 | 4,171.6 | -455.0 | 674.2 | 521.9 | 152.33 | 4.426 | |
| 12,200.0 | 7,630.0 | 12,210.6 | 7,630.0 | 78.0 | 78.3 | -89.92 | 4,271.6 | -455.0 | 674.2 | 518.5 | 155.79 | 4.328 | |
| 12,300.0 | 7,630.0 | 12,310.6 | 7,630.0 | 79.7 | 80.0 | -89.92 | 4,371.6 | -455.0 | 674.2 | 515.0 | 159.24 | 4.234 | |
| 12,400.0 | 7,630.0 | 12,410.6 | 7,630.0 | 81.4 | 81.7 | -89.92 | 4,471.6 | -455.0 | 674.2 | 511.5 | 162.70 | 4.144 | |
| 12,500.0 | 7,630.0 | 12,510.6 | 7,630.0 | 83.2 | 83.4 | -89.92 | 4,571.6 | -455.0 | 674.2 | 508.1 | 166.16 | 4.058 | |
| 12,600.0 | 7,630.0 | 12,610.6 | 7,630.0 | 84.9 | 85.1 | -89.92 | 4,671.6 | -455.0 | 674.2 | 504.6 | 169.62 | 3.975 | |
| 12,700.0 | 7,630.0 | 12,710.6 | 7,630.0 | 86.6 | 86.9 | -89.92 | 4,771.6 | -455.0 | 674.2 | 501.2 | 173.08 | 3.895 | |
| 12,800.0 | 7,630.0 | 12,810.6 | 7,630.0 | 88.4 | 88.6 | -89.92 | 4,871.6 | -455.0 | 674.2 | 497.7 | 176.55 | 3.819 | |
| 12,900.0 | 7,630.0 | 12,910.6 | 7,630.0 | 90.1 | 90.3 | -89.92 | 4,971.6 | -455.0 | 674.2 | 494.2 | 180.01 | 3.745 | |
| 13,000.0 | 7,630.0 | 13,010.6 | 7,630.0 | 91.8 | 92.0 | -89.92 | 5,071.6 | -455.0 | 674.2 | 490.8 | 183.48 | 3.675 | |
| 13,100.0 | 7,630.0 | 13,110.6 | 7,630.0 | 93.6 | 93.8 | -89.92 | 5,171.6 | -455.0 | 674.2 | 487.3 | 186.95 | 3.606 | |
| 13,200.0 | 7,630.0 | 13,210.6 | 7,630.0 | 95.3 | 95.5 | -89.92 | 5,271.6 | -455.0 | 674.2 | 483.8 | 190.42 | 3.541 | |
| 13,300.0 | 7,630.0 | 13,310.6 | 7,630.0 | 97.0 | 97.2 | -89.92 | 5,371.6 | -455.0 | 674.2 | 480.3 | 193.89 | 3.477 | |
| 13,400.0 | 7,630.0 | 13,410.6 | 7,630.0 | 98.8 | 99.0 | -89.92 | 5,471.6 | -455.0 | 674.2 | 476.9 | 197.37 | 3.416 | |
| 13,500.0 | 7,630.0 | 13,510.6 | 7,630.0 | 100.5 | 100.7 | -89.92 | 5,571.6 | -455.0 | 674.2 | 473.4 | 200.84 | 3.357 | |
| 13,600.0 | 7,630.0 | 13,610.6 | 7,630.0 | 102.2 | 102.4 | -89.92 | 5,671.6 | -455.0 | 674.2 | 469.9 | 204.32 | 3.300 | |
| 13,700.0 | 7,630.0 | 13,710.6 | 7,630.0 | 104.0 | 104.2 | -89.92 | 5,771.6 | -455.0 | 674.2 | 466.4 | 207.80 | 3.245 | |
| 13,800.0 | 7,630.0 | 13,810.6 | 7,630.0 | 105.7 | 105.9 | -89.92 | 5,871.6 | -455.0 | 674.2 | 463.0 | 211.27 | 3.191 | |
| 13,900.0 | 7,630.0 | 13,910.6 | 7,630.0 | 107.4 | 107.6 | -89.92 | 5,971.6 | -455.0 | 674.2 | 459.5 | 214.75 | 3.140 | |
| 14,000.0 | 7,630.0 | 14,010.6 | 7,630.0 | 109.2 | 109.4 | -89.92 | 6,071.6 | -455.0 | 674.2 | 456.0 | 218.23 | 3.090 | |
| 14,100.0 | 7,630.0 | 14,110.6 | 7,630.0 | 110.9 | 111.1 | -89.92 | 6,171.6 | -455.0 | 674.2 | 452.5 | 221.71 | 3.041 | |
| 14,200.0 | 7,630.0 | 14,210.6 | 7,630.0 | 112.7 | 112.8 | -89.92 | 6,271.6 | -455.0 | 674.2 | 449.0 | 225.20 | 2.994 | |
| 14,300.0 | 7,630.0 | 14,310.6 | 7,630.0 | 114.4 | 114.6 | -89.92 | 6,371.6 | -455.0 | 674.2 | 445.6 | 228.68 | 2.948 SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | -89.95 | 0.0 | -20.1 | 20.1 | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | -89.95 | 0.0 | -20.1 | 20.1 | 19.9 | 0.24 | 84.230 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | -89.95 | 0.0 | -20.1 | 20.1 | 19.6 | 0.59 | 34.242 | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | -89.95 | 0.0 | -20.1 | 20.1 | 19.2 | 0.94 | 21.489 | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.6 | 0.6 | -89.95 | 0.0 | -20.1 | 20.1 | 18.9 | 1.29 | 15.658 | | |
| 500.0 | 500.0 | 501.0 | 501.0 | 0.8 | 0.8 | -89.95 | 0.0 | -20.1 | 20.1 | 18.5 | 1.64 | 12.315 | | |
| 600.0 | 600.0 | 601.0 | 601.0 | 1.0 | 1.0 | -89.95 | 0.0 | -20.1 | 20.1 | 18.2 | 1.98 | 10.149 | | |
| 700.0 | 700.0 | 701.0 | 701.0 | 1.2 | 1.2 | -89.95 | 0.0 | -20.1 | 20.1 | 17.8 | 2.33 | 8.631 | | |
| 800.0 | 800.0 | 801.0 | 801.0 | 1.3 | 1.3 | -89.95 | 0.0 | -20.1 | 20.1 | 17.5 | 2.68 | 7.508 | | |
| 900.0 | 900.0 | 901.0 | 901.0 | 1.5 | 1.5 | -89.95 | 0.0 | -20.1 | 20.1 | 17.1 | 3.03 | 6.643 | | |
| 966.3 | 966.3 | 967.3 | 967.3 | 1.6 | 1.6 | -89.95 | 0.0 | -20.1 | 20.1 | 16.9 | 3.26 | 6.172 CC | | |
| 1,000.0 | 1,000.0 | 1,001.0 | 1,001.0 | 1.7 | 1.7 | -89.95 | 0.0 | -20.1 | 20.1 | 16.8 | 3.38 | 5.957 ES | | |
| 1,100.0 | 1,100.0 | 1,100.7 | 1,100.6 | 1.9 | 1.9 | 111.19 | -1.5 | -21.0 | 21.6 | 17.9 | 3.73 | 5.787 | | |
| 1,200.0 | 1,199.8 | 1,200.0 | 1,199.8 | 2.0 | 2.0 | 111.60 | -6.2 | -23.4 | 25.9 | 21.8 | 4.09 | 6.334 | | |
| 1,300.0 | 1,299.5 | 1,299.5 | 1,299.0 | 2.2 | 2.2 | 111.84 | -13.8 | -27.4 | 33.0 | 28.5 | 4.47 | 7.384 | | |
| 1,400.0 | 1,399.0 | 1,399.2 | 1,398.1 | 2.4 | 2.4 | 111.18 | -22.9 | -32.1 | 41.1 | 36.2 | 4.87 | 8.449 | | |
| 1,500.0 | 1,498.6 | 1,498.8 | 1,497.2 | 2.6 | 2.7 | 110.74 | -31.9 | -36.9 | 49.2 | 43.9 | 5.27 | 9.334 | | |
| 1,600.0 | 1,598.1 | 1,598.5 | 1,596.4 | 2.9 | 2.9 | 110.42 | -41.0 | -41.6 | 57.3 | 51.6 | 5.69 | 10.076 | | |
| 1,700.0 | 1,697.7 | 1,698.2 | 1,695.5 | 3.1 | 3.1 | 110.19 | -50.1 | -46.4 | 65.5 | 59.3 | 6.11 | 10.705 | | |
| 1,800.0 | 1,797.3 | 1,797.8 | 1,794.7 | 3.3 | 3.3 | 110.00 | -59.1 | -51.1 | 73.6 | 67.0 | 6.54 | 11.243 | | |
| 1,900.0 | 1,896.8 | 1,897.5 | 1,893.8 | 3.5 | 3.6 | 109.85 | -68.2 | -55.8 | 81.7 | 74.7 | 6.98 | 11.707 | | |
| 2,000.0 | 1,996.4 | 1,997.2 | 1,993.0 | 3.7 | 3.8 | 109.73 | -77.2 | -60.6 | 89.8 | 82.4 | 7.42 | 12.110 | | |
| 2,100.0 | 2,095.9 | 2,096.9 | 2,092.1 | 4.0 | 4.0 | 109.63 | -86.3 | -65.3 | 97.9 | 90.1 | 7.86 | 12.463 | | |
| 2,200.0 | 2,195.5 | 2,196.5 | 2,191.3 | 4.2 | 4.3 | 109.54 | -95.3 | -70.1 | 106.0 | 97.7 | 8.30 | 12.775 | | |
| 2,300.0 | 2,295.1 | 2,296.2 | 2,290.4 | 4.4 | 4.5 | 109.47 | -104.4 | -74.8 | 114.2 | 105.4 | 8.75 | 13.051 | | |
| 2,400.0 | 2,394.6 | 2,395.9 | 2,389.5 | 4.7 | 4.7 | 109.40 | -113.4 | -79.6 | 122.3 | 113.1 | 9.19 | 13.298 | | |
| 2,500.0 | 2,494.2 | 2,495.5 | 2,488.7 | 4.9 | 5.0 | 109.35 | -122.5 | -84.3 | 130.4 | 120.7 | 9.64 | 13.520 | | |
| 2,600.0 | 2,593.7 | 2,595.2 | 2,587.8 | 5.1 | 5.2 | 109.30 | -131.5 | -89.0 | 138.5 | 128.4 | 10.10 | 13.720 | | |
| 2,700.0 | 2,693.3 | 2,694.9 | 2,687.0 | 5.4 | 5.5 | 109.25 | -140.6 | -93.8 | 146.6 | 136.1 | 10.55 | 13.901 | | |
| 2,800.0 | 2,792.9 | 2,794.5 | 2,786.1 | 5.6 | 5.7 | 109.21 | -149.7 | -98.5 | 154.7 | 143.7 | 11.00 | 14.065 | | |
| 2,900.0 | 2,892.4 | 2,894.2 | 2,885.3 | 5.8 | 5.9 | 109.18 | -158.7 | -103.3 | 162.9 | 151.4 | 11.46 | 14.216 | | |
| 3,000.0 | 2,992.0 | 2,993.9 | 2,984.4 | 6.1 | 6.2 | 109.15 | -167.8 | -108.0 | 171.0 | 159.1 | 11.91 | 14.354 | | |
| 3,100.0 | 3,091.5 | 3,093.6 | 3,083.6 | 6.3 | 6.4 | 109.12 | -176.8 | -112.8 | 179.1 | 166.7 | 12.37 | 14.481 | | |
| 3,200.0 | 3,191.1 | 3,193.2 | 3,182.7 | 6.5 | 6.7 | 109.09 | -185.9 | -117.5 | 187.2 | 174.4 | 12.82 | 14.598 | | |
| 3,300.0 | 3,290.7 | 3,292.9 | 3,281.8 | 6.8 | 6.9 | 109.07 | -194.9 | -122.2 | 195.3 | 182.1 | 13.28 | 14.706 | | |
| 3,400.0 | 3,390.2 | 3,392.6 | 3,381.0 | 7.0 | 7.2 | 109.04 | -204.0 | -127.0 | 203.5 | 189.7 | 13.74 | 14.807 | | |
| 3,500.0 | 3,489.8 | 3,492.2 | 3,480.1 | 7.2 | 7.4 | 109.02 | -213.0 | -131.7 | 211.6 | 197.4 | 14.20 | 14.901 | | |
| 3,600.0 | 3,589.3 | 3,591.9 | 3,579.3 | 7.5 | 7.7 | 109.00 | -222.1 | -136.5 | 219.7 | 205.0 | 14.66 | 14.988 | | |
| 3,700.0 | 3,688.9 | 3,691.6 | 3,678.4 | 7.7 | 7.9 | 108.99 | -231.1 | -141.2 | 227.8 | 212.7 | 15.12 | 15.069 | | |
| 3,800.0 | 3,788.5 | 3,791.2 | 3,777.6 | 7.9 | 8.1 | 108.97 | -240.2 | -145.9 | 235.9 | 220.4 | 15.58 | 15.146 | | |
| 3,900.0 | 3,888.0 | 3,890.9 | 3,876.7 | 8.2 | 8.4 | 108.95 | -249.3 | -150.7 | 244.1 | 228.0 | 16.04 | 15.217 | | |
| 4,000.0 | 3,987.6 | 3,990.6 | 3,975.9 | 8.4 | 8.6 | 108.94 | -258.3 | -155.4 | 252.2 | 235.7 | 16.50 | 15.285 | | |
| 4,100.0 | 4,087.1 | 4,090.3 | 4,075.0 | 8.6 | 8.9 | 108.93 | -267.4 | -160.2 | 260.3 | 243.3 | 16.96 | 15.348 | | |
| 4,200.0 | 4,186.7 | 4,189.9 | 4,174.1 | 8.9 | 9.1 | 108.91 | -276.4 | -164.9 | 268.4 | 251.0 | 17.42 | 15.408 | | |
| 4,300.0 | 4,286.3 | 4,289.6 | 4,273.3 | 9.1 | 9.4 | 108.90 | -285.5 | -169.7 | 276.5 | 258.6 | 17.88 | 15.465 | | |
| 4,400.0 | 4,385.8 | 4,389.3 | 4,372.4 | 9.4 | 9.6 | 108.89 | -294.5 | -174.4 | 284.6 | 266.3 | 18.34 | 15.518 | | |
| 4,500.0 | 4,485.4 | 4,488.9 | 4,471.6 | 9.6 | 9.9 | 108.88 | -303.6 | -179.1 | 292.8 | 274.0 | 18.80 | 15.569 | | |
| 4,600.0 | 4,584.9 | 4,588.6 | 4,570.7 | 9.8 | 10.1 | 108.87 | -312.6 | -183.9 | 300.9 | 281.6 | 19.27 | 15.617 | | |
| 4,700.0 | 4,684.5 | 4,688.3 | 4,669.9 | 10.1 | 10.4 | 108.86 | -321.7 | -188.6 | 309.0 | 289.3 | 19.73 | 15.663 | | |
| 4,800.0 | 4,784.1 | 4,787.9 | 4,769.0 | 10.3 | 10.6 | 108.85 | -330.7 | -193.4 | 317.1 | 296.9 | 20.19 | 15.706 | | |
| 4,900.0 | 4,883.6 | 4,887.6 | 4,868.1 | 10.5 | 10.9 | 108.84 | -339.8 | -198.1 | 325.2 | 304.6 | 20.65 | 15.748 | | |
| 5,000.0 | 4,983.2 | 4,987.3 | 4,967.3 | 10.8 | 11.1 | 108.83 | -348.9 | -202.9 | 333.4 | 312.2 | 21.12 | 15.787 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - 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 | 5,082.7 | 5,087.0 | 5,066.4 | 11.0 | 11.4 | 108.83 | -357.9 | -207.6 | 341.5 | 319.9 | 21.58 | 15.825 | | |
| 5,200.0 | 5,182.3 | 5,186.6 | 5,165.6 | 11.3 | 11.6 | 108.82 | -367.0 | -212.3 | 349.6 | 327.6 | 22.04 | 15.861 | | |
| 5,300.0 | 5,281.9 | 5,286.3 | 5,264.7 | 11.5 | 11.8 | 108.81 | -376.0 | -217.1 | 357.7 | 335.2 | 22.50 | 15.895 | | |
| 5,400.0 | 5,381.4 | 5,386.0 | 5,363.9 | 11.7 | 12.1 | 108.80 | -385.1 | -221.8 | 365.8 | 342.9 | 22.97 | 15.928 | | |
| 5,500.0 | 5,481.0 | 5,485.6 | 5,463.0 | 12.0 | 12.3 | 108.80 | -394.1 | -226.6 | 374.0 | 350.5 | 23.43 | 15.960 | | |
| 5,600.0 | 5,580.5 | 5,585.3 | 5,562.2 | 12.2 | 12.6 | 108.79 | -403.2 | -231.3 | 382.1 | 358.2 | 23.89 | 15.990 | | |
| 5,700.0 | 5,680.1 | 5,685.0 | 5,661.3 | 12.4 | 12.8 | 108.79 | -412.2 | -236.0 | 390.2 | 365.8 | 24.36 | 16.019 | | |
| 5,800.0 | 5,779.7 | 5,784.6 | 5,760.4 | 12.7 | 13.1 | 108.78 | -421.3 | -240.8 | 398.3 | 373.5 | 24.82 | 16.047 | | |
| 5,900.0 | 5,879.2 | 5,884.3 | 5,859.6 | 12.9 | 13.3 | 108.77 | -430.3 | -245.5 | 406.4 | 381.1 | 25.28 | 16.074 | | |
| 6,000.0 | 5,978.8 | 5,984.0 | 5,958.7 | 13.2 | 13.6 | 108.77 | -439.4 | -250.3 | 414.5 | 388.8 | 25.75 | 16.100 | | |
| 6,100.0 | 6,078.3 | 6,083.7 | 6,057.9 | 13.4 | 13.8 | 108.76 | -448.5 | -255.0 | 422.7 | 396.5 | 26.21 | 16.125 | | |
| 6,200.0 | 6,177.9 | 6,183.3 | 6,157.0 | 13.6 | 14.1 | 108.76 | -457.5 | -259.8 | 430.8 | 404.1 | 26.68 | 16.149 | | |
| 6,300.0 | 6,277.5 | 6,283.0 | 6,256.2 | 13.9 | 14.3 | 108.75 | -466.6 | -264.5 | 438.9 | 411.8 | 27.14 | 16.172 | | |
| 6,400.0 | 6,377.0 | 6,382.7 | 6,355.3 | 14.1 | 14.6 | 108.75 | -475.6 | -269.2 | 447.0 | 419.4 | 27.60 | 16.195 | | |
| 6,500.0 | 6,476.6 | 6,482.3 | 6,454.5 | 14.3 | 14.8 | 108.75 | -484.7 | -274.0 | 455.1 | 427.1 | 28.07 | 16.216 | | |
| 6,600.0 | 6,576.2 | 6,582.0 | 6,553.6 | 14.6 | 15.1 | 108.74 | -493.7 | -278.7 | 463.3 | 434.7 | 28.53 | 16.237 | | |
| 6,700.0 | 6,675.7 | 6,681.7 | 6,652.7 | 14.8 | 15.3 | 108.74 | -502.8 | -283.5 | 471.4 | 442.4 | 29.00 | 16.257 | | |
| 6,800.0 | 6,775.3 | 6,781.3 | 6,751.9 | 15.1 | 15.6 | 108.73 | -511.8 | -288.2 | 479.5 | 450.0 | 29.46 | 16.276 | | |
| 6,900.0 | 6,874.8 | 6,883.5 | 6,853.8 | 15.3 | 15.7 | 109.28 | -516.4 | -293.0 | 487.4 | 457.6 | 29.86 | 16.325 | | |
| 7,000.0 | 6,974.4 | 6,982.4 | 6,951.7 | 15.5 | 15.7 | 111.72 | -504.2 | -297.4 | 495.2 | 465.1 | 30.09 | 16.455 | | |
| 7,100.0 | 7,074.1 | 7,073.4 | 7,038.7 | 15.7 | 15.6 | -134.34 | -478.3 | -301.2 | 504.6 | 474.4 | 30.12 | 16.753 | | |
| 7,200.0 | 7,173.3 | 7,160.0 | 7,116.7 | 15.7 | 15.4 | -90.60 | -441.1 | -304.4 | 515.6 | 485.8 | 29.83 | 17.286 | | |
| 7,300.0 | 7,268.9 | 7,243.2 | 7,185.7 | 15.5 | 15.1 | -82.58 | -394.6 | -307.0 | 527.5 | 498.2 | 29.28 | 18.013 | | |
| 7,400.0 | 7,358.1 | 7,323.8 | 7,245.4 | 15.3 | 14.8 | -77.72 | -340.6 | -309.2 | 539.5 | 510.9 | 28.56 | 18.890 | | |
| 7,500.0 | 7,438.1 | 7,400.0 | 7,294.3 | 14.9 | 14.6 | -74.17 | -282.3 | -310.7 | 550.7 | 523.0 | 27.75 | 19.848 | | |
| 7,600.0 | 7,506.6 | 7,479.3 | 7,336.6 | 14.6 | 14.4 | -71.37 | -215.3 | -311.9 | 560.6 | 533.6 | 26.93 | 20.816 | | |
| 7,700.0 | 7,561.5 | 7,550.0 | 7,366.1 | 14.3 | 14.3 | -69.39 | -151.1 | -312.5 | 568.5 | 542.2 | 26.27 | 21.637 | | |
| 7,800.0 | 7,601.0 | 7,630.0 | 7,389.8 | 14.2 | 14.2 | -67.93 | -74.8 | -312.7 | 574.0 | 548.1 | 25.87 | 22.183 | | |
| 7,900.0 | 7,624.0 | 7,700.0 | 7,401.6 | 14.3 | 14.3 | -67.16 | -5.8 | -312.4 | 576.9 | 551.0 | 25.86 | 22.304 | | |
| 8,000.0 | 7,630.0 | 7,784.0 | 7,405.0 | 14.5 | 14.6 | -66.94 | 78.1 | -311.5 | 576.9 | 550.6 | 26.34 | 21.905 | | |
| 8,100.0 | 7,630.0 | 7,884.0 | 7,405.0 | 15.0 | 15.0 | -66.89 | 178.1 | -310.3 | 575.8 | 548.5 | 27.27 | 21.118 | | |
| 8,200.0 | 7,630.0 | 7,984.0 | 7,405.0 | 15.6 | 15.7 | -66.84 | 278.0 | -309.1 | 574.7 | 546.1 | 28.52 | 20.148 | | |
| 8,300.0 | 7,630.0 | 8,084.0 | 7,405.0 | 16.4 | 16.5 | -66.79 | 378.0 | -307.8 | 573.5 | 543.5 | 30.07 | 19.072 | | |
| 8,400.0 | 7,630.0 | 8,184.0 | 7,405.0 | 17.4 | 17.4 | -66.74 | 478.0 | -306.6 | 572.4 | 540.5 | 31.87 | 17.959 | | |
| 8,500.0 | 7,630.0 | 8,284.0 | 7,405.0 | 18.5 | 18.5 | -66.70 | 578.0 | -305.4 | 571.3 | 537.4 | 33.88 | 16.860 | | |
| 8,600.0 | 7,630.0 | 8,384.0 | 7,405.0 | 19.6 | 19.7 | -66.65 | 678.0 | -304.2 | 570.2 | 534.1 | 36.07 | 15.808 | | |
| 8,700.0 | 7,630.0 | 8,484.0 | 7,405.0 | 20.9 | 20.9 | -66.60 | 778.0 | -303.0 | 569.0 | 530.6 | 38.40 | 14.820 | | |
| 8,800.0 | 7,630.0 | 8,584.0 | 7,405.0 | 22.2 | 22.2 | -66.55 | 878.0 | -301.7 | 567.9 | 527.1 | 40.85 | 13.904 | | |
| 8,900.0 | 7,630.0 | 8,684.0 | 7,405.0 | 23.6 | 23.6 | -66.50 | 977.9 | -300.5 | 566.8 | 523.4 | 43.39 | 13.062 | | |
| 9,000.0 | 7,630.0 | 8,784.0 | 7,405.0 | 25.0 | 25.0 | -66.45 | 1,077.9 | -299.3 | 565.7 | 519.7 | 46.02 | 12.292 | | |
| 9,100.0 | 7,630.0 | 8,884.0 | 7,405.0 | 26.4 | 26.5 | -66.40 | 1,177.9 | -298.1 | 564.6 | 515.8 | 48.71 | 11.589 | | |
| 9,200.0 | 7,630.0 | 8,983.9 | 7,405.0 | 27.9 | 28.0 | -66.35 | 1,277.9 | -296.8 | 563.4 | 512.0 | 51.47 | 10.948 | | |
| 9,300.0 | 7,630.0 | 9,083.9 | 7,405.0 | 29.5 | 29.5 | -66.30 | 1,377.9 | -295.6 | 562.3 | 508.1 | 54.26 | 10.363 | | |
| 9,400.0 | 7,630.0 | 9,183.9 | 7,405.0 | 31.0 | 31.0 | -66.25 | 1,477.9 | -294.4 | 561.2 | 504.1 | 57.10 | 9.828 | | |
| 9,500.0 | 7,630.0 | 9,283.9 | 7,405.0 | 32.6 | 32.6 | -66.20 | 1,577.9 | -293.2 | 560.1 | 500.1 | 59.98 | 9.338 | | |
| 9,600.0 | 7,630.0 | 9,383.9 | 7,405.0 | 34.2 | 34.2 | -66.15 | 1,677.8 | -292.0 | 559.0 | 496.1 | 62.88 | 8.890 | | |
| 9,700.0 | 7,630.0 | 9,483.9 | 7,405.0 | 35.8 | 35.8 | -66.10 | 1,777.8 | -290.7 | 557.9 | 492.0 | 65.81 | 8.477 | | |
| 9,800.0 | 7,630.0 | 9,583.9 | 7,405.0 | 37.4 | 37.4 | -66.05 | 1,877.8 | -289.5 | 556.7 | 488.0 | 68.75 | 8.098 | | |
| 9,900.0 | 7,630.0 | 9,683.9 | 7,405.0 | 39.0 | 39.0 | -66.00 | 1,977.8 | -288.3 | 555.6 | 483.9 | 71.72 | 7.747 | | |
| 10,000.0 | 7,630.0 | 9,783.9 | 7,405.0 | 40.7 | 40.7 | -65.95 | 2,077.8 | -287.1 | 554.5 | 479.8 | 74.70 | 7.423 | | |
| 10,100.0 | 7,630.0 | 9,883.9 | 7,405.0 | 42.3 | 42.3 | -65.89 | 2,177.8 | -285.9 | 553.4 | 475.7 | 77.69 | 7.123 | | |
| 10,200.0 | 7,630.0 | 9,983.9 | 7,405.0 | 44.0 | 44.0 | -65.84 | 2,277.7 | -284.6 | 552.3 | 471.6 | 80.70 | 6.843 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4I-26H-P268 - 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) | | | | |
| 10,300.0 | 7,630.0 | 10,083.9 | 7,405.0 | 45.6 | 45.6 | -65.79 | 2,377.7 | -283.4 | 551.2 | 467.4 | 83.72 | 6.584 | | |
| 10,400.0 | 7,630.0 | 10,183.9 | 7,405.0 | 47.3 | 47.3 | -65.74 | 2,477.7 | -282.2 | 550.0 | 463.3 | 86.74 | 6.341 | | |
| 10,500.0 | 7,630.0 | 10,283.8 | 7,405.0 | 49.0 | 49.0 | -65.69 | 2,577.7 | -281.0 | 548.9 | 459.2 | 89.78 | 6.114 | | |
| 10,600.0 | 7,630.0 | 10,383.8 | 7,405.0 | 50.7 | 50.7 | -65.63 | 2,677.7 | -279.7 | 547.8 | 455.0 | 92.81 | 5.902 | | |
| 10,700.0 | 7,630.0 | 10,483.8 | 7,405.0 | 52.3 | 52.4 | -65.58 | 2,777.7 | -278.5 | 546.7 | 450.8 | 95.86 | 5.703 | | |
| 10,800.0 | 7,630.0 | 10,583.8 | 7,405.0 | 54.0 | 54.0 | -65.53 | 2,877.7 | -277.3 | 545.6 | 446.7 | 98.91 | 5.516 | | |
| 10,900.0 | 7,630.0 | 10,683.8 | 7,405.0 | 55.7 | 55.7 | -65.47 | 2,977.6 | -276.1 | 544.5 | 442.5 | 101.96 | 5.340 | | |
| 11,000.0 | 7,630.0 | 10,783.8 | 7,405.0 | 57.4 | 57.4 | -65.42 | 3,077.6 | -274.9 | 543.4 | 438.4 | 105.02 | 5.174 | | |
| 11,100.0 | 7,630.0 | 10,883.8 | 7,405.0 | 59.1 | 59.1 | -65.37 | 3,177.6 | -273.6 | 542.3 | 434.2 | 108.08 | 5.017 | | |
| 11,200.0 | 7,630.0 | 10,983.8 | 7,405.0 | 60.8 | 60.8 | -65.31 | 3,277.6 | -272.4 | 541.1 | 430.0 | 111.14 | 4.869 | | |
| 11,300.0 | 7,630.0 | 11,083.8 | 7,405.0 | 62.5 | 62.5 | -65.26 | 3,377.6 | -271.2 | 540.0 | 425.8 | 114.20 | 4.729 | | |
| 11,400.0 | 7,630.0 | 11,183.8 | 7,405.0 | 64.2 | 64.3 | -65.20 | 3,477.6 | -270.0 | 538.9 | 421.7 | 117.27 | 4.596 | | |
| 11,500.0 | 7,630.0 | 11,283.8 | 7,405.0 | 66.0 | 66.0 | -65.15 | 3,577.6 | -268.7 | 537.8 | 417.5 | 120.33 | 4.469 | | |
| 11,600.0 | 7,630.0 | 11,383.8 | 7,405.0 | 67.7 | 67.7 | -65.10 | 3,677.5 | -267.5 | 536.7 | 413.3 | 123.40 | 4.349 | | |
| 11,700.0 | 7,630.0 | 11,483.8 | 7,405.0 | 69.4 | 69.4 | -65.04 | 3,777.5 | -266.3 | 535.6 | 409.1 | 126.47 | 4.235 | | |
| 11,800.0 | 7,630.0 | 11,583.8 | 7,405.0 | 71.1 | 71.1 | -64.99 | 3,877.5 | -265.1 | 534.5 | 405.0 | 129.54 | 4.126 | | |
| 11,900.0 | 7,630.0 | 11,683.7 | 7,405.0 | 72.8 | 72.8 | -64.93 | 3,977.5 | -263.9 | 533.4 | 400.8 | 132.60 | 4.022 | | |
| 12,000.0 | 7,630.0 | 11,783.7 | 7,405.0 | 74.5 | 74.6 | -64.87 | 4,077.5 | -262.6 | 532.3 | 396.6 | 135.67 | 3.923 | | |
| 12,100.0 | 7,630.0 | 11,883.7 | 7,405.0 | 76.3 | 76.3 | -64.82 | 4,177.5 | -261.4 | 531.2 | 392.4 | 138.74 | 3.829 | | |
| 12,200.0 | 7,630.0 | 11,983.7 | 7,405.0 | 78.0 | 78.0 | -64.76 | 4,277.5 | -260.2 | 530.1 | 388.3 | 141.80 | 3.738 | | |
| 12,300.0 | 7,630.0 | 12,083.7 | 7,405.0 | 79.7 | 79.7 | -64.71 | 4,377.4 | -259.0 | 529.0 | 384.1 | 144.87 | 3.651 | | |
| 12,400.0 | 7,630.0 | 12,183.7 | 7,405.0 | 81.4 | 81.5 | -64.65 | 4,477.4 | -257.8 | 527.9 | 379.9 | 147.93 | 3.568 | | |
| 12,500.0 | 7,630.0 | 12,283.7 | 7,405.0 | 83.2 | 83.2 | -64.59 | 4,577.4 | -256.5 | 526.8 | 375.8 | 150.99 | 3.489 | | |
| 12,600.0 | 7,630.0 | 12,383.7 | 7,405.0 | 84.9 | 84.9 | -64.53 | 4,677.4 | -255.3 | 525.7 | 371.6 | 154.05 | 3.412 | | |
| 12,700.0 | 7,630.0 | 12,483.7 | 7,405.0 | 86.6 | 86.6 | -64.48 | 4,777.4 | -254.1 | 524.6 | 367.4 | 157.11 | 3.339 | | |
| 12,800.0 | 7,630.0 | 12,583.7 | 7,405.0 | 88.4 | 88.4 | -64.42 | 4,877.4 | -252.9 | 523.4 | 363.3 | 160.17 | 3.268 | | |
| 12,900.0 | 7,630.0 | 12,683.7 | 7,405.0 | 90.1 | 90.1 | -64.36 | 4,977.3 | -251.6 | 522.3 | 359.1 | 163.22 | 3.200 | | |
| 13,000.0 | 7,630.0 | 12,783.7 | 7,405.0 | 91.8 | 91.8 | -64.30 | 5,077.3 | -250.4 | 521.2 | 355.0 | 166.28 | 3.135 | | |
| 13,100.0 | 7,630.0 | 12,883.7 | 7,405.0 | 93.6 | 93.6 | -64.25 | 5,177.3 | -249.2 | 520.1 | 350.8 | 169.33 | 3.072 | | |
| 13,200.0 | 7,630.0 | 12,983.6 | 7,405.0 | 95.3 | 95.3 | -64.19 | 5,277.3 | -248.0 | 519.0 | 346.7 | 172.38 | 3.011 | | |
| 13,300.0 | 7,630.0 | 13,083.6 | 7,405.0 | 97.0 | 97.0 | -64.13 | 5,377.3 | -246.8 | 517.9 | 342.5 | 175.42 | 2.953 | | |
| 13,400.0 | 7,630.0 | 13,183.6 | 7,405.0 | 98.8 | 98.8 | -64.07 | 5,477.3 | -245.5 | 516.8 | 338.4 | 178.47 | 2.896 | | |
| 13,500.0 | 7,630.0 | 13,283.6 | 7,405.0 | 100.5 | 100.5 | -64.01 | 5,577.3 | -244.3 | 515.7 | 334.2 | 181.51 | 2.841 | | |
| 13,600.0 | 7,630.0 | 13,383.6 | 7,405.0 | 102.2 | 102.2 | -63.95 | 5,677.2 | -243.1 | 514.7 | 330.1 | 184.55 | 2.789 | | |
| 13,700.0 | 7,630.0 | 13,483.6 | 7,405.0 | 104.0 | 104.0 | -63.89 | 5,777.2 | -241.9 | 513.6 | 326.0 | 187.58 | 2.738 | | |
| 13,800.0 | 7,630.0 | 13,583.6 | 7,405.0 | 105.7 | 105.7 | -63.83 | 5,877.2 | -240.7 | 512.5 | 321.8 | 190.62 | 2.688 | | |
| 13,900.0 | 7,630.0 | 13,683.6 | 7,405.0 | 107.4 | 107.5 | -63.77 | 5,977.2 | -239.4 | 511.4 | 317.7 | 193.65 | 2.641 | | |
| 14,000.0 | 7,630.0 | 13,783.6 | 7,405.0 | 109.2 | 109.2 | -63.71 | 6,077.2 | -238.2 | 510.3 | 313.6 | 196.68 | 2.594 | | |
| 14,100.0 | 7,630.0 | 13,883.6 | 7,405.0 | 110.9 | 110.9 | -63.65 | 6,177.2 | -237.0 | 509.2 | 309.5 | 199.70 | 2.550 | | |
| 14,200.0 | 7,630.0 | 13,983.6 | 7,405.0 | 112.7 | 112.7 | -63.59 | 6,277.2 | -235.8 | 508.1 | 305.4 | 202.72 | 2.506 | | |
| 14,300.0 | 7,630.0 | 14,083.6 | 7,405.0 | 114.4 | 114.4 | -63.53 | 6,377.1 | -234.5 | 507.0 | 301.2 | 205.74 | 2.464 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - 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 | -89.95 | 0.0 | -10.1 | 10.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.95 | 0.0 | -10.1 | 10.1 | 9.8 | 0.24 | 42.425 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.95 | 0.0 | -10.1 | 10.1 | 9.5 | 0.59 | 17.172 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.95 | 0.0 | -10.1 | 10.1 | 9.1 | 0.94 | 10.765 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -89.95 | 0.0 | -10.1 | 10.1 | 8.8 | 1.28 | 7.839 | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 0.8 | 0.8 | -89.95 | 0.0 | -10.1 | 10.1 | 8.4 | 1.63 | 6.164 | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.0 | 1.0 | -89.95 | 0.0 | -10.1 | 10.1 | 8.1 | 1.98 | 5.079 | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.2 | 1.2 | -89.95 | 0.0 | -10.1 | 10.1 | 7.7 | 2.33 | 4.319 | | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.3 | 1.3 | -89.95 | 0.0 | -10.1 | 10.1 | 7.4 | 2.68 | 3.756 | | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.5 | 1.5 | -89.95 | 0.0 | -10.1 | 10.1 | 7.0 | 3.03 | 3.324 | | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1.7 | 1.7 | -89.95 | 0.0 | -10.1 | 10.1 | 6.7 | 3.38 | 2.980 CC, ES | | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 1.9 | 1.9 | 119.71 | 0.0 | -10.1 | 10.8 | 7.1 | 3.73 | 2.902 | | |
| 1,200.0 | 1,199.8 | 1,200.1 | 1,200.1 | 2.0 | 2.0 | 132.37 | -1.7 | -9.8 | 13.2 | 9.1 | 4.08 | 3.230 | | |
| 1,300.0 | 1,299.5 | 1,300.3 | 1,300.2 | 2.2 | 2.2 | 138.84 | -6.9 | -8.9 | 16.3 | 11.9 | 4.44 | 3.679 | | |
| 1,400.0 | 1,399.0 | 1,400.5 | 1,400.0 | 2.4 | 2.4 | 137.07 | -15.3 | -7.4 | 18.2 | 13.4 | 4.81 | 3.776 | | |
| 1,500.0 | 1,498.6 | 1,500.5 | 1,499.6 | 2.6 | 2.6 | 133.87 | -24.4 | -5.8 | 19.6 | 14.4 | 5.20 | 3.773 | | |
| 1,600.0 | 1,598.1 | 1,600.5 | 1,599.1 | 2.9 | 2.8 | 131.11 | -33.5 | -4.2 | 21.1 | 15.5 | 5.60 | 3.772 | | |
| 1,700.0 | 1,697.7 | 1,700.5 | 1,698.7 | 3.1 | 3.0 | 128.73 | -42.6 | -2.6 | 22.7 | 16.7 | 6.01 | 3.771 | | |
| 1,800.0 | 1,797.3 | 1,800.5 | 1,798.2 | 3.3 | 3.2 | 126.65 | -51.7 | -1.0 | 24.3 | 17.8 | 6.43 | 3.771 | | |
| 1,900.0 | 1,896.8 | 1,900.5 | 1,897.8 | 3.5 | 3.5 | 124.83 | -60.8 | 0.6 | 25.9 | 19.0 | 6.86 | 3.771 | | |
| 2,000.0 | 1,996.4 | 2,000.5 | 1,997.4 | 3.7 | 3.7 | 123.23 | -69.9 | 2.2 | 27.5 | 20.2 | 7.30 | 3.770 | | |
| 2,100.0 | 2,095.9 | 2,100.4 | 2,096.9 | 4.0 | 3.9 | 121.81 | -79.0 | 3.8 | 29.2 | 21.4 | 7.74 | 3.770 | | |
| 2,200.0 | 2,195.5 | 2,200.4 | 2,196.5 | 4.2 | 4.1 | 120.54 | -88.1 | 5.4 | 30.8 | 22.7 | 8.18 | 3.769 | | |
| 2,300.0 | 2,295.1 | 2,300.4 | 2,296.0 | 4.4 | 4.3 | 119.40 | -97.2 | 7.0 | 32.5 | 23.9 | 8.63 | 3.768 | | |
| 2,400.0 | 2,394.6 | 2,400.4 | 2,395.6 | 4.7 | 4.6 | 118.37 | -106.3 | 8.6 | 34.2 | 25.1 | 9.08 | 3.768 | | |
| 2,500.0 | 2,494.2 | 2,500.4 | 2,495.1 | 4.9 | 4.8 | 117.44 | -115.4 | 10.2 | 35.9 | 26.4 | 9.53 | 3.767 | | |
| 2,600.0 | 2,593.7 | 2,600.4 | 2,594.7 | 5.1 | 5.0 | 116.60 | -124.6 | 11.8 | 37.6 | 27.6 | 9.99 | 3.767 | | |
| 2,700.0 | 2,693.3 | 2,700.3 | 2,694.2 | 5.4 | 5.3 | 115.83 | -133.7 | 13.4 | 39.3 | 28.9 | 10.45 | 3.766 | | |
| 2,800.0 | 2,792.9 | 2,800.3 | 2,793.8 | 5.6 | 5.5 | 115.12 | -142.8 | 15.0 | 41.1 | 30.2 | 10.91 | 3.766 | | |
| 2,900.0 | 2,892.4 | 2,900.3 | 2,893.4 | 5.8 | 5.7 | 114.47 | -151.9 | 16.6 | 42.8 | 31.4 | 11.37 | 3.765 | | |
| 3,000.0 | 2,992.0 | 3,000.3 | 2,992.9 | 6.1 | 6.0 | 113.87 | -161.0 | 18.2 | 44.5 | 32.7 | 11.83 | 3.765 | | |
| 3,100.0 | 3,091.5 | 3,100.3 | 3,092.5 | 6.3 | 6.2 | 113.32 | -170.1 | 19.8 | 46.3 | 34.0 | 12.29 | 3.765 | | |
| 3,200.0 | 3,191.1 | 3,200.3 | 3,192.0 | 6.5 | 6.4 | 112.80 | -179.2 | 21.4 | 48.0 | 35.3 | 12.76 | 3.764 | | |
| 3,300.0 | 3,290.7 | 3,300.2 | 3,291.6 | 6.8 | 6.6 | 112.33 | -188.3 | 23.0 | 49.8 | 36.6 | 13.22 | 3.764 | | |
| 3,400.0 | 3,390.2 | 3,400.2 | 3,391.1 | 7.0 | 6.9 | 111.88 | -197.4 | 24.6 | 51.5 | 37.8 | 13.69 | 3.764 | | |
| 3,500.0 | 3,489.8 | 3,500.2 | 3,490.7 | 7.2 | 7.1 | 111.47 | -206.5 | 26.2 | 53.3 | 39.1 | 14.16 | 3.764 | | |
| 3,600.0 | 3,589.3 | 3,600.2 | 3,590.2 | 7.5 | 7.3 | 111.08 | -215.6 | 27.8 | 55.0 | 40.4 | 14.63 | 3.764 | | |
| 3,700.0 | 3,688.9 | 3,700.2 | 3,689.8 | 7.7 | 7.6 | 110.71 | -224.7 | 29.4 | 56.8 | 41.7 | 15.09 | 3.764 | | |
| 3,800.0 | 3,788.5 | 3,800.2 | 3,789.4 | 7.9 | 7.8 | 110.37 | -233.8 | 31.0 | 58.6 | 43.0 | 15.56 | 3.764 | | |
| 3,900.0 | 3,888.0 | 3,900.1 | 3,888.9 | 8.2 | 8.0 | 110.05 | -242.9 | 32.6 | 60.3 | 44.3 | 16.03 | 3.764 | | |
| 4,000.0 | 3,987.6 | 4,000.1 | 3,988.5 | 8.4 | 8.3 | 109.74 | -252.0 | 34.2 | 62.1 | 45.6 | 16.50 | 3.763 | | |
| 4,100.0 | 4,087.1 | 4,100.1 | 4,088.0 | 8.6 | 8.5 | 109.45 | -261.1 | 35.8 | 63.9 | 46.9 | 16.97 | 3.763 | | |
| 4,200.0 | 4,186.7 | 4,200.1 | 4,187.6 | 8.9 | 8.8 | 109.18 | -270.2 | 37.4 | 65.6 | 48.2 | 17.44 | 3.763 | | |
| 4,300.0 | 4,286.3 | 4,300.1 | 4,287.1 | 9.1 | 9.0 | 108.92 | -279.3 | 39.0 | 67.4 | 49.5 | 17.91 | 3.763 | | |
| 4,400.0 | 4,385.8 | 4,400.1 | 4,386.7 | 9.4 | 9.2 | 108.68 | -288.5 | 40.6 | 69.2 | 50.8 | 18.38 | 3.764 | | |
| 4,500.0 | 4,485.4 | 4,500.0 | 4,486.2 | 9.6 | 9.5 | 108.45 | -297.6 | 42.2 | 71.0 | 52.1 | 18.86 | 3.764 | | |
| 4,600.0 | 4,584.9 | 4,600.0 | 4,585.8 | 9.8 | 9.7 | 108.23 | -306.7 | 43.8 | 72.7 | 53.4 | 19.33 | 3.764 | | |
| 4,700.0 | 4,684.5 | 4,700.0 | 4,685.4 | 10.1 | 9.9 | 108.01 | -315.8 | 45.4 | 74.5 | 54.7 | 19.80 | 3.764 | | |
| 4,800.0 | 4,784.1 | 4,800.0 | 4,784.9 | 10.3 | 10.2 | 107.81 | -324.9 | 47.0 | 76.3 | 56.0 | 20.27 | 3.764 | | |
| 4,900.0 | 4,883.6 | 4,900.0 | 4,884.5 | 10.5 | 10.4 | 107.62 | -334.0 | 48.6 | 78.1 | 57.3 | 20.74 | 3.764 | | |
| 5,000.0 | 4,983.2 | 5,000.0 | 4,984.0 | 10.8 | 10.6 | 107.44 | -343.1 | 50.2 | 79.8 | 58.6 | 21.21 | 3.764 | | |
| 5,100.0 | 5,082.7 | 5,100.0 | 5,083.6 | 11.0 | 10.9 | 107.26 | -352.2 | 51.8 | 81.6 | 59.9 | 21.69 | 3.764 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - 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 | 5,182.3 | 5,199.9 | 5,183.1 | 11.3 | 11.1 | 107.10 | -361.3 | 53.4 | 83.4 | 61.2 | 22.16 | 3.764 | | |
| 5,300.0 | 5,281.9 | 5,299.9 | 5,282.7 | 11.5 | 11.3 | 106.94 | -370.4 | 55.0 | 85.2 | 62.6 | 22.63 | 3.764 | | |
| 5,400.0 | 5,381.4 | 5,399.9 | 5,382.2 | 11.7 | 11.6 | 106.78 | -379.5 | 56.6 | 87.0 | 63.9 | 23.10 | 3.764 | | |
| 5,500.0 | 5,481.0 | 5,499.9 | 5,481.8 | 12.0 | 11.8 | 106.63 | -388.6 | 58.2 | 88.8 | 65.2 | 23.58 | 3.764 | | |
| 5,600.0 | 5,580.5 | 5,599.9 | 5,581.4 | 12.2 | 12.0 | 106.49 | -397.7 | 59.8 | 90.5 | 66.5 | 24.05 | 3.764 | | |
| 5,700.0 | 5,680.1 | 5,699.9 | 5,680.9 | 12.4 | 12.3 | 106.35 | -406.8 | 61.4 | 92.3 | 67.8 | 24.52 | 3.764 | | |
| 5,800.0 | 5,779.7 | 5,799.8 | 5,780.5 | 12.7 | 12.5 | 106.22 | -415.9 | 63.0 | 94.1 | 69.1 | 25.00 | 3.765 | | |
| 5,900.0 | 5,879.2 | 5,899.8 | 5,880.0 | 12.9 | 12.8 | 106.10 | -425.0 | 64.6 | 95.9 | 70.4 | 25.47 | 3.765 | | |
| 6,000.0 | 5,978.8 | 5,999.8 | 5,979.6 | 13.2 | 13.0 | 105.98 | -434.1 | 66.2 | 97.7 | 71.7 | 25.94 | 3.765 | | |
| 6,100.0 | 6,078.3 | 6,099.8 | 6,079.1 | 13.4 | 13.2 | 105.86 | -443.2 | 67.8 | 99.5 | 73.0 | 26.42 | 3.765 | | |
| 6,200.0 | 6,177.9 | 6,199.8 | 6,178.7 | 13.6 | 13.5 | 105.74 | -452.3 | 69.4 | 101.2 | 74.4 | 26.89 | 3.765 | | |
| 6,300.0 | 6,277.5 | 6,299.8 | 6,278.2 | 13.9 | 13.7 | 105.63 | -461.5 | 71.0 | 103.0 | 75.7 | 27.36 | 3.765 | | |
| 6,400.0 | 6,377.0 | 6,399.7 | 6,377.8 | 14.1 | 13.9 | 105.53 | -470.6 | 72.6 | 104.8 | 77.0 | 27.84 | 3.765 | | |
| 6,500.0 | 6,476.6 | 6,499.7 | 6,477.4 | 14.3 | 14.2 | 105.43 | -479.7 | 74.2 | 106.6 | 78.3 | 28.31 | 3.765 | | |
| 6,600.0 | 6,576.2 | 6,599.7 | 6,576.9 | 14.6 | 14.4 | 105.33 | -488.8 | 75.8 | 108.4 | 79.6 | 28.79 | 3.765 | | |
| 6,700.0 | 6,675.7 | 6,699.7 | 6,676.5 | 14.8 | 14.6 | 105.23 | -497.9 | 77.4 | 110.2 | 80.9 | 29.26 | 3.766 | | |
| 6,800.0 | 6,775.3 | 6,799.7 | 6,776.0 | 15.1 | 14.9 | 105.14 | -507.0 | 79.0 | 112.0 | 82.2 | 29.73 | 3.766 | | |
| 6,900.0 | 6,874.8 | 6,899.8 | 6,875.7 | 15.3 | 15.1 | 105.06 | -516.1 | 80.6 | 113.8 | 83.5 | 30.21 | 3.766 | | |
| 7,000.0 | 6,974.4 | 7,000.6 | 6,976.4 | 15.5 | 15.2 | 109.88 | -515.4 | 82.2 | 115.0 | 84.6 | 30.33 | 3.790 | | |
| 7,100.0 | 7,074.1 | 7,096.5 | 7,070.6 | 15.7 | 15.1 | -129.44 | -498.4 | 83.6 | 118.5 | 88.8 | 29.72 | 3.988 | | |
| 7,200.0 | 7,173.3 | 7,188.8 | 7,157.4 | 15.7 | 14.9 | -79.87 | -467.4 | 84.9 | 126.2 | 97.5 | 28.68 | 4.398 | | |
| 7,300.0 | 7,268.9 | 7,278.2 | 7,235.7 | 15.5 | 14.7 | -67.44 | -424.4 | 86.0 | 136.3 | 108.8 | 27.52 | 4.954 | | |
| 7,400.0 | 7,358.1 | 7,365.2 | 7,304.6 | 15.3 | 14.3 | -59.49 | -371.5 | 86.9 | 147.6 | 121.3 | 26.34 | 5.604 | | |
| 7,500.0 | 7,438.1 | 7,450.0 | 7,363.4 | 14.9 | 14.0 | -53.88 | -310.4 | 87.6 | 158.7 | 133.6 | 25.18 | 6.305 | | |
| 7,600.0 | 7,506.6 | 7,533.7 | 7,411.9 | 14.6 | 13.8 | -49.86 | -242.2 | 88.1 | 168.8 | 144.7 | 24.09 | 7.008 | | |
| 7,700.0 | 7,561.5 | 7,616.1 | 7,449.4 | 14.3 | 13.6 | -47.07 | -169.0 | 88.4 | 177.1 | 154.0 | 23.17 | 7.645 | | |
| 7,800.0 | 7,601.0 | 7,700.0 | 7,476.4 | 14.2 | 13.5 | -45.24 | -89.6 | 88.6 | 183.3 | 160.7 | 22.55 | 8.129 | | |
| 7,900.0 | 7,624.0 | 7,778.5 | 7,491.0 | 14.3 | 13.6 | -44.31 | -12.5 | 88.6 | 187.0 | 164.6 | 22.37 | 8.358 | | |
| 8,000.0 | 7,630.0 | 7,862.4 | 7,495.0 | 14.5 | 13.9 | -44.12 | 71.1 | 88.3 | 188.1 | 165.3 | 22.72 | 8.278 | | |
| 8,100.0 | 7,630.0 | 7,962.3 | 7,495.0 | 15.0 | 14.4 | -44.20 | 171.1 | 88.0 | 188.3 | 164.8 | 23.53 | 8.003 | | |
| 8,200.0 | 7,630.0 | 8,062.3 | 7,495.0 | 15.6 | 15.0 | -44.27 | 271.1 | 87.6 | 188.5 | 164.0 | 24.56 | 7.678 | | |
| 8,300.0 | 7,630.0 | 8,162.3 | 7,495.0 | 16.4 | 15.9 | -44.35 | 371.1 | 87.3 | 188.8 | 163.0 | 25.78 | 7.322 | | |
| 8,400.0 | 7,630.0 | 8,262.3 | 7,495.0 | 17.4 | 16.8 | -44.43 | 471.1 | 86.9 | 189.0 | 161.9 | 27.18 | 6.954 | | |
| 8,500.0 | 7,630.0 | 8,362.3 | 7,495.0 | 18.5 | 17.9 | -44.50 | 571.1 | 86.6 | 189.3 | 160.5 | 28.73 | 6.588 | | |
| 8,600.0 | 7,630.0 | 8,462.3 | 7,495.0 | 19.6 | 19.1 | -44.58 | 671.1 | 86.2 | 189.5 | 159.1 | 30.41 | 6.232 | | |
| 8,700.0 | 7,630.0 | 8,562.3 | 7,495.0 | 20.9 | 20.4 | -44.65 | 771.1 | 85.9 | 189.8 | 157.6 | 32.20 | 5.893 | | |
| 8,800.0 | 7,630.0 | 8,662.3 | 7,495.0 | 22.2 | 21.8 | -44.73 | 871.1 | 85.5 | 190.0 | 155.9 | 34.08 | 5.575 | | |
| 8,900.0 | 7,630.0 | 8,762.3 | 7,495.0 | 23.6 | 23.2 | -44.80 | 971.1 | 85.2 | 190.3 | 154.2 | 36.05 | 5.278 | | |
| 9,000.0 | 7,630.0 | 8,862.3 | 7,495.0 | 25.0 | 24.6 | -44.88 | 1,071.1 | 84.8 | 190.5 | 152.4 | 38.08 | 5.003 | | |
| 9,100.0 | 7,630.0 | 8,962.3 | 7,495.0 | 26.4 | 26.1 | -44.95 | 1,171.1 | 84.5 | 190.8 | 150.6 | 40.17 | 4.748 | | |
| 9,200.0 | 7,630.0 | 9,062.3 | 7,495.0 | 27.9 | 27.6 | -45.02 | 1,271.1 | 84.1 | 191.0 | 148.7 | 42.32 | 4.513 | | |
| 9,300.0 | 7,630.0 | 9,162.3 | 7,495.0 | 29.5 | 29.1 | -45.10 | 1,371.1 | 83.8 | 191.2 | 146.7 | 44.51 | 4.296 | | |
| 9,400.0 | 7,630.0 | 9,262.3 | 7,495.0 | 31.0 | 30.7 | -45.17 | 1,471.1 | 83.4 | 191.5 | 144.7 | 46.74 | 4.097 | | |
| 9,500.0 | 7,630.0 | 9,362.3 | 7,495.0 | 32.6 | 32.3 | -45.24 | 1,571.1 | 83.1 | 191.7 | 142.7 | 49.01 | 3.912 | | |
| 9,600.0 | 7,630.0 | 9,462.3 | 7,495.0 | 34.2 | 33.9 | -45.32 | 1,671.1 | 82.7 | 192.0 | 140.7 | 51.31 | 3.742 | | |
| 9,700.0 | 7,630.0 | 9,562.3 | 7,495.0 | 35.8 | 35.5 | -45.39 | 1,771.1 | 82.4 | 192.2 | 138.6 | 53.64 | 3.584 | | |
| 9,800.0 | 7,630.0 | 9,662.3 | 7,495.0 | 37.4 | 37.1 | -45.46 | 1,871.1 | 82.0 | 192.5 | 136.5 | 55.99 | 3.438 | | |
| 9,900.0 | 7,630.0 | 9,762.3 | 7,495.0 | 39.0 | 38.8 | -45.54 | 1,971.1 | 81.7 | 192.7 | 134.4 | 58.37 | 3.302 | | |
| 10,000.0 | 7,630.0 | 9,862.3 | 7,495.0 | 40.7 | 40.4 | -45.61 | 2,071.1 | 81.3 | 193.0 | 132.2 | 60.77 | 3.176 | | |
| 10,100.0 | 7,630.0 | 9,962.3 | 7,495.0 | 42.3 | 42.1 | -45.68 | 2,171.1 | 81.0 | 193.2 | 130.0 | 63.19 | 3.058 | | |
| 10,200.0 | 7,630.0 | 10,062.3 | 7,495.0 | 44.0 | 43.7 | -45.75 | 2,271.1 | 80.6 | 193.5 | 127.9 | 65.62 | 2.948 | | |
| 10,300.0 | 7,630.0 | 10,162.3 | 7,495.0 | 45.6 | 45.4 | -45.83 | 2,371.1 | 80.3 | 193.7 | 125.7 | 68.07 | 2.846 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4J-26H-P268 - 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 | 7,630.0 | 10,262.3 | 7,495.0 | 47.3 | 47.1 | -45.90 | 2,471.1 | 79.9 | 194.0 | 123.4 | 70.54 | 2.750 | |
| 10,500.0 | 7,630.0 | 10,362.3 | 7,495.0 | 49.0 | 48.8 | -45.97 | 2,571.1 | 79.6 | 194.2 | 121.2 | 73.03 | 2.660 | |
| 10,600.0 | 7,630.0 | 10,462.3 | 7,495.0 | 50.7 | 50.4 | -46.04 | 2,671.1 | 79.2 | 194.5 | 119.0 | 75.52 | 2.575 | |
| 10,700.0 | 7,630.0 | 10,562.3 | 7,495.0 | 52.3 | 52.1 | -46.11 | 2,771.1 | 78.9 | 194.7 | 116.7 | 78.03 | 2.496 | |
| 10,800.0 | 7,630.0 | 10,662.3 | 7,495.0 | 54.0 | 53.8 | -46.18 | 2,871.1 | 78.5 | 195.0 | 114.4 | 80.56 | 2.421 | |
| 10,900.0 | 7,630.0 | 10,762.3 | 7,495.0 | 55.7 | 55.5 | -46.25 | 2,971.1 | 78.2 | 195.2 | 112.2 | 83.09 | 2.350 | |
| 11,000.0 | 7,630.0 | 10,862.3 | 7,495.0 | 57.4 | 57.2 | -46.33 | 3,071.1 | 77.9 | 195.5 | 109.9 | 85.63 | 2.283 | |
| 11,100.0 | 7,630.0 | 10,962.3 | 7,495.0 | 59.1 | 58.9 | -46.40 | 3,171.1 | 77.5 | 195.7 | 107.6 | 88.19 | 2.220 | |
| 11,200.0 | 7,630.0 | 11,062.3 | 7,495.0 | 60.8 | 60.6 | -46.47 | 3,271.1 | 77.2 | 196.0 | 105.2 | 90.76 | 2.160 | |
| 11,300.0 | 7,630.0 | 11,162.3 | 7,495.0 | 62.5 | 62.4 | -46.54 | 3,371.1 | 76.8 | 196.3 | 102.9 | 93.33 | 2.103 | |
| 11,400.0 | 7,630.0 | 11,262.3 | 7,495.0 | 64.2 | 64.1 | -46.61 | 3,471.1 | 76.5 | 196.5 | 100.6 | 95.92 | 2.049 | |
| 11,500.0 | 7,630.0 | 11,362.3 | 7,495.0 | 66.0 | 65.8 | -46.68 | 3,571.1 | 76.1 | 196.8 | 98.2 | 98.51 | 1.997 | |
| 11,600.0 | 7,630.0 | 11,462.3 | 7,495.0 | 67.7 | 67.5 | -46.75 | 3,671.1 | 75.8 | 197.0 | 95.9 | 101.12 | 1.948 | |
| 11,700.0 | 7,630.0 | 11,562.3 | 7,495.0 | 69.4 | 69.2 | -46.82 | 3,771.1 | 75.4 | 197.3 | 93.5 | 103.73 | 1.902 | |
| 11,800.0 | 7,630.0 | 11,662.3 | 7,495.0 | 71.1 | 70.9 | -46.88 | 3,871.1 | 75.1 | 197.5 | 91.2 | 106.35 | 1.857 | |
| 11,900.0 | 7,630.0 | 11,762.3 | 7,495.0 | 72.8 | 72.7 | -46.95 | 3,971.1 | 74.7 | 197.8 | 88.8 | 108.97 | 1.815 | |
| 12,000.0 | 7,630.0 | 11,862.3 | 7,495.0 | 74.5 | 74.4 | -47.02 | 4,071.1 | 74.4 | 198.0 | 86.4 | 111.61 | 1.774 | |
| 12,100.0 | 7,630.0 | 11,962.3 | 7,495.0 | 76.3 | 76.1 | -47.09 | 4,171.1 | 74.0 | 198.3 | 84.0 | 114.25 | 1.736 | |
| 12,200.0 | 7,630.0 | 12,062.3 | 7,495.0 | 78.0 | 77.8 | -47.16 | 4,271.1 | 73.7 | 198.5 | 81.6 | 116.90 | 1.698 | |
| 12,300.0 | 7,630.0 | 12,162.3 | 7,495.0 | 79.7 | 79.6 | -47.23 | 4,371.1 | 73.3 | 198.8 | 79.2 | 119.56 | 1.663 | |
| 12,400.0 | 7,630.0 | 12,262.3 | 7,495.0 | 81.4 | 81.3 | -47.30 | 4,471.1 | 73.0 | 199.1 | 76.8 | 122.23 | 1.629 | |
| 12,500.0 | 7,630.0 | 12,362.3 | 7,495.0 | 83.2 | 83.0 | -47.36 | 4,571.1 | 72.6 | 199.3 | 74.4 | 124.90 | 1.596 | |
| 12,600.0 | 7,630.0 | 12,462.3 | 7,495.0 | 84.9 | 84.8 | -47.43 | 4,671.1 | 72.3 | 199.6 | 72.0 | 127.58 | 1.564 | |
| 12,700.0 | 7,630.0 | 12,562.3 | 7,495.0 | 86.6 | 86.5 | -47.50 | 4,771.1 | 71.9 | 199.8 | 69.6 | 130.26 | 1.534 | |
| 12,800.0 | 7,630.0 | 12,662.3 | 7,495.0 | 88.4 | 88.2 | -47.57 | 4,871.1 | 71.6 | 200.1 | 67.1 | 132.96 | 1.505 | |
| 12,900.0 | 7,630.0 | 12,762.3 | 7,495.0 | 90.1 | 90.0 | -47.64 | 4,971.1 | 71.2 | 200.3 | 64.7 | 135.65 | 1.477 Level 3 | |
| 13,000.0 | 7,630.0 | 12,862.3 | 7,495.0 | 91.8 | 91.7 | -47.70 | 5,071.1 | 70.9 | 200.6 | 62.2 | 138.36 | 1.450 Level 3 | |
| 13,100.0 | 7,630.0 | 12,962.3 | 7,495.0 | 93.6 | 93.4 | -47.77 | 5,171.1 | 70.5 | 200.9 | 59.8 | 141.07 | 1.424 Level 3 | |
| 13,200.0 | 7,630.0 | 13,062.3 | 7,495.0 | 95.3 | 95.2 | -47.84 | 5,271.1 | 70.2 | 201.1 | 57.3 | 143.79 | 1.399 Level 3 | |
| 13,300.0 | 7,630.0 | 13,161.5 | 7,495.0 | 97.0 | 96.9 | -47.92 | 5,370.3 | 69.7 | 201.4 | 54.9 | 146.53 | 1.375 Level 3 | |
| 13,400.0 | 7,630.0 | 13,259.0 | 7,495.0 | 98.8 | 98.6 | -48.24 | 5,467.7 | 68.1 | 202.7 | 53.0 | 149.77 | 1.354 Level 3 | |
| 13,500.0 | 7,630.0 | 13,356.3 | 7,495.0 | 100.5 | 100.3 | -48.86 | 5,565.0 | 64.7 | 205.3 | 51.6 | 153.69 | 1.336 Level 3 | |
| 13,600.0 | 7,630.0 | 13,453.5 | 7,495.0 | 102.2 | 101.9 | -49.76 | 5,662.1 | 59.7 | 209.2 | 50.9 | 158.23 | 1.322 Level 3 | |
| 13,700.0 | 7,630.0 | 13,553.0 | 7,495.0 | 104.0 | 103.7 | -50.82 | 5,761.4 | 53.6 | 213.9 | 50.7 | 163.20 | 1.311 Level 3 | |
| 13,800.0 | 7,630.0 | 13,652.8 | 7,495.0 | 105.7 | 105.4 | -51.84 | 5,861.0 | 47.5 | 218.7 | 50.6 | 168.11 | 1.301 Level 3 | |
| 13,900.0 | 7,630.0 | 13,752.6 | 7,495.0 | 107.4 | 107.1 | -52.81 | 5,960.6 | 41.3 | 223.6 | 50.7 | 172.96 | 1.293 Level 3 | |
| 14,000.0 | 7,630.0 | 13,852.4 | 7,495.0 | 109.2 | 108.9 | -53.74 | 6,060.2 | 35.2 | 228.6 | 50.8 | 177.75 | 1.286 Level 3 | |
| 14,100.0 | 7,630.0 | 13,952.2 | 7,495.0 | 110.9 | 110.6 | -54.64 | 6,159.8 | 29.0 | 233.6 | 51.1 | 182.47 | 1.280 Level 3 | |
| 14,200.0 | 7,630.0 | 14,052.0 | 7,495.0 | 112.7 | 112.3 | -55.50 | 6,259.5 | 22.9 | 238.6 | 51.5 | 187.14 | 1.275 Level 3 | |
| 14,300.0 | 7,630.0 | 14,151.9 | 7,495.0 | 114.4 | 114.1 | -56.32 | 6,359.1 | 16.7 | 243.7 | 52.0 | 191.76 | 1.271 Level 3, SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - 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 | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.89 | -0.3 | 9.8 | 9.8 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 91.89 | -0.3 | 9.8 | 9.8 | 9.6 | 0.24 | 41.269 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 91.89 | -0.3 | 9.8 | 9.8 | 9.2 | 0.59 | 16.704 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 91.89 | -0.3 | 9.8 | 9.8 | 8.9 | 0.94 | 10.471 | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | 91.89 | -0.3 | 9.8 | 9.8 | 8.5 | 1.28 | 7.626 | | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 0.8 | 0.8 | 91.89 | -0.3 | 9.8 | 9.8 | 8.2 | 1.63 | 5.996 | | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.0 | 1.0 | 91.89 | -0.3 | 9.8 | 9.8 | 7.8 | 1.98 | 4.941 | | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.2 | 1.2 | 91.89 | -0.3 | 9.8 | 9.8 | 7.5 | 2.33 | 4.201 | | | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.3 | 1.3 | 91.89 | -0.3 | 9.8 | 9.8 | 7.1 | 2.68 | 3.654 | | | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.5 | 1.5 | 91.89 | -0.3 | 9.8 | 9.8 | 6.8 | 3.03 | 3.233 | | | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1.7 | 1.7 | 91.89 | -0.3 | 9.8 | 9.8 | 6.4 | 3.38 | 2.899 CC, ES | | | |
| 1,100.0 | 1,100.0 | 1,099.8 | 1,099.7 | 1.9 | 1.9 | -69.19 | -1.6 | 11.0 | 10.4 | 6.6 | 3.73 | 2.778 | | | |
| 1,200.0 | 1,199.8 | 1,199.5 | 1,199.3 | 2.0 | 2.0 | -74.28 | -5.4 | 14.6 | 12.1 | 8.0 | 4.09 | 2.964 | | | |
| 1,300.0 | 1,299.5 | 1,299.2 | 1,298.6 | 2.2 | 2.2 | -79.43 | -11.7 | 20.5 | 15.2 | 10.8 | 4.47 | 3.405 | | | |
| 1,400.0 | 1,399.0 | 1,398.8 | 1,397.6 | 2.4 | 2.5 | -77.16 | -20.3 | 28.6 | 20.0 | 15.1 | 4.87 | 4.104 | | | |
| 1,500.0 | 1,498.6 | 1,498.7 | 1,496.7 | 2.6 | 2.7 | -74.54 | -29.4 | 37.3 | 25.2 | 19.9 | 5.28 | 4.768 | | | |
| 1,600.0 | 1,598.1 | 1,598.6 | 1,595.7 | 2.9 | 2.9 | -72.82 | -38.5 | 45.9 | 30.4 | 24.7 | 5.70 | 5.335 | | | |
| 1,700.0 | 1,697.7 | 1,698.4 | 1,694.8 | 3.1 | 3.2 | -71.61 | -47.6 | 54.5 | 35.6 | 29.5 | 6.12 | 5.823 | | | |
| 1,800.0 | 1,797.3 | 1,798.3 | 1,793.9 | 3.3 | 3.4 | -70.70 | -56.8 | 63.1 | 40.9 | 34.3 | 6.55 | 6.245 | | | |
| 1,900.0 | 1,896.8 | 1,898.1 | 1,892.9 | 3.5 | 3.7 | -70.00 | -65.9 | 71.7 | 46.1 | 39.2 | 6.98 | 6.612 | | | |
| 2,000.0 | 1,996.4 | 1,998.0 | 1,992.0 | 3.7 | 3.9 | -69.45 | -75.0 | 80.3 | 51.4 | 44.0 | 7.41 | 6.935 | | | |
| 2,100.0 | 2,095.9 | 2,097.9 | 2,091.1 | 4.0 | 4.2 | -69.00 | -84.1 | 88.9 | 56.7 | 48.8 | 7.85 | 7.220 | | | |
| 2,200.0 | 2,195.5 | 2,197.7 | 2,190.1 | 4.2 | 4.4 | -68.62 | -93.2 | 97.5 | 61.9 | 53.6 | 8.29 | 7.473 | | | |
| 2,300.0 | 2,295.1 | 2,297.6 | 2,289.2 | 4.4 | 4.7 | -68.31 | -102.3 | 106.1 | 67.2 | 58.5 | 8.73 | 7.700 | | | |
| 2,400.0 | 2,394.6 | 2,397.4 | 2,388.3 | 4.7 | 5.0 | -68.04 | -111.5 | 114.7 | 72.5 | 63.3 | 9.17 | 7.903 | | | |
| 2,500.0 | 2,494.2 | 2,497.3 | 2,487.4 | 4.9 | 5.2 | -67.80 | -120.6 | 123.3 | 77.8 | 68.1 | 9.62 | 8.087 | | | |
| 2,600.0 | 2,593.7 | 2,597.2 | 2,586.4 | 5.1 | 5.5 | -67.60 | -129.7 | 132.0 | 83.0 | 73.0 | 10.06 | 8.253 | | | |
| 2,700.0 | 2,693.3 | 2,697.0 | 2,685.5 | 5.4 | 5.8 | -67.42 | -138.8 | 140.6 | 88.3 | 77.8 | 10.51 | 8.405 | | | |
| 2,800.0 | 2,792.9 | 2,796.9 | 2,784.6 | 5.6 | 6.1 | -67.26 | -147.9 | 149.2 | 93.6 | 82.6 | 10.95 | 8.544 | | | |
| 2,900.0 | 2,892.4 | 2,896.7 | 2,883.6 | 5.8 | 6.3 | -67.12 | -157.0 | 157.8 | 98.9 | 87.5 | 11.40 | 8.671 | | | |
| 3,000.0 | 2,992.0 | 2,996.6 | 2,982.7 | 6.1 | 6.6 | -66.99 | -166.2 | 166.4 | 104.1 | 92.3 | 11.85 | 8.788 | | | |
| 3,100.0 | 3,091.5 | 3,096.5 | 3,081.8 | 6.3 | 6.9 | -66.88 | -175.3 | 175.0 | 109.4 | 97.1 | 12.30 | 8.896 | | | |
| 3,200.0 | 3,191.1 | 3,196.3 | 3,180.8 | 6.5 | 7.1 | -66.77 | -184.4 | 183.6 | 114.7 | 102.0 | 12.75 | 8.997 | | | |
| 3,300.0 | 3,290.7 | 3,296.2 | 3,279.9 | 6.8 | 7.4 | -66.68 | -193.5 | 192.2 | 120.0 | 106.8 | 13.20 | 9.090 | | | |
| 3,400.0 | 3,390.2 | 3,396.0 | 3,379.0 | 7.0 | 7.7 | -66.59 | -202.6 | 200.8 | 125.3 | 111.6 | 13.65 | 9.176 | | | |
| 3,500.0 | 3,489.8 | 3,495.9 | 3,478.1 | 7.2 | 8.0 | -66.51 | -211.7 | 209.4 | 130.5 | 116.4 | 14.10 | 9.257 | | | |
| 3,600.0 | 3,589.3 | 3,595.8 | 3,577.1 | 7.5 | 8.2 | -66.43 | -220.9 | 218.0 | 135.8 | 121.3 | 14.55 | 9.333 | | | |
| 3,700.0 | 3,688.9 | 3,695.6 | 3,676.2 | 7.7 | 8.5 | -66.36 | -230.0 | 226.6 | 141.1 | 126.1 | 15.01 | 9.404 | | | |
| 3,800.0 | 3,788.5 | 3,795.5 | 3,775.3 | 7.9 | 8.8 | -66.30 | -239.1 | 235.3 | 146.4 | 130.9 | 15.46 | 9.470 | | | |
| 3,900.0 | 3,888.0 | 3,895.3 | 3,874.3 | 8.2 | 9.1 | -66.24 | -248.2 | 243.9 | 151.7 | 135.8 | 15.91 | 9.533 | | | |
| 4,000.0 | 3,987.6 | 3,995.2 | 3,973.4 | 8.4 | 9.4 | -66.19 | -257.3 | 252.5 | 157.0 | 140.6 | 16.36 | 9.592 | | | |
| 4,100.0 | 4,087.1 | 4,095.1 | 4,072.5 | 8.6 | 9.6 | -66.13 | -266.4 | 261.1 | 162.2 | 145.4 | 16.82 | 9.647 | | | |
| 4,200.0 | 4,186.7 | 4,194.9 | 4,171.5 | 8.9 | 9.9 | -66.09 | -275.6 | 269.7 | 167.5 | 150.2 | 17.27 | 9.700 | | | |
| 4,300.0 | 4,286.3 | 4,294.8 | 4,270.6 | 9.1 | 10.2 | -66.04 | -284.7 | 278.3 | 172.8 | 155.1 | 17.72 | 9.750 | | | |
| 4,400.0 | 4,385.8 | 4,394.6 | 4,369.7 | 9.4 | 10.5 | -66.00 | -293.8 | 286.9 | 178.1 | 159.9 | 18.18 | 9.797 | | | |
| 4,500.0 | 4,485.4 | 4,494.5 | 4,468.8 | 9.6 | 10.7 | -65.96 | -302.9 | 295.5 | 183.4 | 164.7 | 18.63 | 9.842 | | | |
| 4,600.0 | 4,584.9 | 4,594.4 | 4,567.8 | 9.8 | 11.0 | -65.92 | -312.0 | 304.1 | 188.6 | 169.6 | 19.09 | 9.884 | | | |
| 4,700.0 | 4,684.5 | 4,694.2 | 4,666.9 | 10.1 | 11.3 | -65.88 | -321.1 | 312.7 | 193.9 | 174.4 | 19.54 | 9.925 | | | |
| 4,800.0 | 4,784.1 | 4,794.1 | 4,766.0 | 10.3 | 11.6 | -65.85 | -330.3 | 321.3 | 199.2 | 179.2 | 19.99 | 9.964 | | | |
| 4,900.0 | 4,883.6 | 4,894.0 | 4,865.0 | 10.5 | 11.8 | -65.82 | -339.4 | 329.9 | 204.5 | 184.0 | 20.45 | 10.001 | | | |
| 5,000.0 | 4,983.2 | 4,993.8 | 4,964.1 | 10.8 | 12.1 | -65.79 | -348.5 | 338.6 | 209.8 | 188.9 | 20.90 | 10.036 | | | |
| 5,100.0 | 5,082.7 | 5,093.7 | 5,063.2 | 11.0 | 12.4 | -65.76 | -357.6 | 347.2 | 215.1 | 193.7 | 21.36 | 10.069 | | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - 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 | 5,182.3 | 5,193.5 | 5,162.2 | 11.3 | 12.7 | -65.73 | -366.7 | 355.8 | 220.3 | 198.5 | 21.81 | 10.102 | | |
| 5,300.0 | 5,281.9 | 5,293.4 | 5,261.3 | 11.5 | 13.0 | -65.70 | -375.8 | 364.4 | 225.6 | 203.4 | 22.27 | 10.133 | | |
| 5,400.0 | 5,381.4 | 5,393.3 | 5,360.4 | 11.7 | 13.2 | -65.68 | -385.0 | 373.0 | 230.9 | 208.2 | 22.72 | 10.162 | | |
| 5,500.0 | 5,481.0 | 5,493.1 | 5,459.5 | 12.0 | 13.5 | -65.65 | -394.1 | 381.6 | 236.2 | 213.0 | 23.18 | 10.191 | | |
| 5,600.0 | 5,580.5 | 5,593.0 | 5,558.5 | 12.2 | 13.8 | -65.63 | -403.2 | 390.2 | 241.5 | 217.8 | 23.63 | 10.218 | | |
| 5,700.0 | 5,680.1 | 5,692.8 | 5,657.6 | 12.4 | 14.1 | -65.61 | -412.3 | 398.8 | 246.8 | 222.7 | 24.09 | 10.244 | | |
| 5,800.0 | 5,779.7 | 5,792.7 | 5,756.7 | 12.7 | 14.4 | -65.59 | -421.4 | 407.4 | 252.0 | 227.5 | 24.54 | 10.269 | | |
| 5,900.0 | 5,879.2 | 5,892.6 | 5,855.7 | 12.9 | 14.6 | -65.57 | -430.5 | 416.0 | 257.3 | 232.3 | 25.00 | 10.293 | | |
| 6,000.0 | 5,978.8 | 5,992.4 | 5,954.8 | 13.2 | 14.9 | -65.55 | -439.7 | 424.6 | 262.6 | 237.2 | 25.45 | 10.317 | | |
| 6,100.0 | 6,078.3 | 6,092.3 | 6,053.9 | 13.4 | 15.2 | -65.53 | -448.8 | 433.3 | 267.9 | 242.0 | 25.91 | 10.339 | | |
| 6,200.0 | 6,177.9 | 6,192.1 | 6,152.9 | 13.6 | 15.5 | -65.51 | -457.9 | 441.9 | 273.2 | 246.8 | 26.37 | 10.361 | | |
| 6,300.0 | 6,277.5 | 6,292.0 | 6,252.0 | 13.9 | 15.8 | -65.49 | -467.0 | 450.5 | 278.5 | 251.6 | 26.82 | 10.382 | | |
| 6,400.0 | 6,377.0 | 6,391.9 | 6,351.1 | 14.1 | 16.0 | -65.48 | -476.1 | 459.1 | 283.7 | 256.5 | 27.28 | 10.402 | | |
| 6,500.0 | 6,476.6 | 6,491.7 | 6,450.2 | 14.3 | 16.3 | -65.46 | -485.2 | 467.7 | 289.0 | 261.3 | 27.73 | 10.422 | | |
| 6,600.0 | 6,576.2 | 6,591.6 | 6,549.2 | 14.6 | 16.6 | -65.45 | -494.4 | 476.3 | 294.3 | 266.1 | 28.19 | 10.441 | | |
| 6,700.0 | 6,675.7 | 6,691.4 | 6,648.3 | 14.8 | 16.9 | -65.43 | -503.5 | 484.9 | 299.6 | 270.9 | 28.64 | 10.459 | | |
| 6,800.0 | 6,775.3 | 6,791.3 | 6,747.4 | 15.1 | 17.1 | -65.42 | -512.6 | 493.5 | 304.9 | 275.8 | 29.10 | 10.477 | | |
| 6,900.0 | 6,874.8 | 6,893.4 | 6,848.9 | 15.3 | 17.4 | -66.14 | -517.9 | 502.3 | 309.9 | 280.3 | 29.59 | 10.473 | | |
| 7,000.0 | 6,974.4 | 6,992.8 | 6,947.1 | 15.5 | 17.4 | -69.80 | -506.6 | 510.5 | 314.7 | 284.4 | 30.27 | 10.395 | | |
| 7,100.0 | 7,074.1 | 7,084.4 | 7,034.8 | 15.7 | 17.3 | 34.24 | -481.3 | 517.7 | 321.7 | 290.8 | 30.94 | 10.397 | | |
| 7,200.0 | 7,173.3 | 7,171.6 | 7,113.5 | 15.7 | 17.2 | 68.19 | -444.5 | 523.9 | 331.4 | 300.3 | 31.15 | 10.640 | | |
| 7,300.0 | 7,268.9 | 7,255.5 | 7,183.1 | 15.5 | 17.0 | 67.43 | -398.2 | 529.2 | 342.7 | 311.9 | 30.83 | 11.118 | | |
| 7,400.0 | 7,358.1 | 7,336.6 | 7,243.4 | 15.3 | 16.8 | 64.67 | -344.1 | 533.6 | 354.5 | 324.5 | 30.01 | 11.814 | | |
| 7,500.0 | 7,438.1 | 7,415.7 | 7,294.3 | 14.9 | 16.6 | 61.86 | -283.7 | 537.1 | 365.9 | 337.1 | 28.82 | 12.696 | | |
| 7,600.0 | 7,506.6 | 7,493.2 | 7,335.6 | 14.6 | 16.4 | 59.43 | -218.4 | 539.8 | 376.0 | 348.6 | 27.44 | 13.702 | | |
| 7,700.0 | 7,561.5 | 7,569.4 | 7,367.4 | 14.3 | 16.3 | 57.51 | -149.2 | 541.5 | 384.2 | 358.1 | 26.13 | 14.707 | | |
| 7,800.0 | 7,601.0 | 7,650.0 | 7,390.7 | 14.2 | 16.3 | 56.09 | -72.0 | 542.4 | 390.1 | 364.9 | 25.14 | 15.517 | | |
| 7,900.0 | 7,624.0 | 7,719.5 | 7,402.0 | 14.3 | 16.4 | 55.35 | -3.5 | 542.4 | 393.0 | 368.2 | 24.80 | 15.851 | | |
| 8,000.0 | 7,630.0 | 7,799.2 | 7,405.0 | 14.5 | 16.6 | 55.08 | 76.1 | 541.6 | 393.1 | 368.0 | 25.16 | 15.623 | | |
| 8,100.0 | 7,630.0 | 7,899.2 | 7,405.0 | 15.0 | 16.9 | 54.97 | 176.1 | 540.2 | 392.0 | 366.0 | 26.00 | 15.079 | | |
| 8,200.0 | 7,630.0 | 7,999.2 | 7,405.0 | 15.6 | 17.5 | 54.85 | 276.1 | 538.8 | 390.8 | 363.7 | 27.10 | 14.420 | | |
| 8,300.0 | 7,630.0 | 8,099.2 | 7,405.0 | 16.4 | 18.2 | 54.73 | 376.0 | 537.4 | 389.7 | 361.2 | 28.46 | 13.695 | | |
| 8,400.0 | 7,630.0 | 8,199.2 | 7,405.0 | 17.4 | 19.1 | 54.61 | 476.0 | 536.0 | 388.6 | 358.5 | 30.02 | 12.944 | | |
| 8,500.0 | 7,630.0 | 8,299.2 | 7,405.0 | 18.5 | 20.0 | 54.49 | 576.0 | 534.6 | 387.4 | 355.7 | 31.75 | 12.201 | | |
| 8,600.0 | 7,630.0 | 8,399.2 | 7,405.0 | 19.6 | 21.1 | 54.37 | 676.0 | 533.2 | 386.3 | 352.7 | 33.64 | 11.484 | | |
| 8,700.0 | 7,630.0 | 8,499.1 | 7,405.0 | 20.9 | 22.3 | 54.25 | 776.0 | 531.8 | 385.2 | 349.5 | 35.64 | 10.807 | | |
| 8,800.0 | 7,630.0 | 8,599.1 | 7,405.0 | 22.2 | 23.5 | 54.13 | 875.9 | 530.4 | 384.0 | 346.3 | 37.74 | 10.175 | | |
| 8,900.0 | 7,630.0 | 8,699.1 | 7,405.0 | 23.6 | 24.8 | 54.01 | 975.9 | 529.0 | 382.9 | 343.0 | 39.93 | 9.590 | | |
| 9,000.0 | 7,630.0 | 8,799.1 | 7,405.0 | 25.0 | 26.2 | 53.89 | 1,075.9 | 527.6 | 381.8 | 339.6 | 42.18 | 9.051 | | |
| 9,100.0 | 7,630.0 | 8,899.1 | 7,405.0 | 26.4 | 27.5 | 53.76 | 1,175.9 | 526.2 | 380.6 | 336.2 | 44.48 | 8.557 | | |
| 9,200.0 | 7,630.0 | 8,999.1 | 7,405.0 | 27.9 | 29.0 | 53.64 | 1,275.9 | 524.8 | 379.5 | 332.7 | 46.84 | 8.103 | | |
| 9,300.0 | 7,630.0 | 9,099.1 | 7,405.0 | 29.5 | 30.4 | 53.51 | 1,375.8 | 523.4 | 378.4 | 329.2 | 49.23 | 7.687 | | |
| 9,400.0 | 7,630.0 | 9,199.1 | 7,405.0 | 31.0 | 31.9 | 53.39 | 1,475.8 | 522.0 | 377.3 | 325.6 | 51.64 | 7.305 | | |
| 9,500.0 | 7,630.0 | 9,299.1 | 7,405.0 | 32.6 | 33.5 | 53.26 | 1,575.8 | 520.7 | 376.1 | 322.1 | 54.09 | 6.954 | | |
| 9,600.0 | 7,630.0 | 9,399.1 | 7,405.0 | 34.2 | 35.0 | 53.13 | 1,675.8 | 519.3 | 375.0 | 318.5 | 56.55 | 6.631 | | |
| 9,700.0 | 7,630.0 | 9,499.1 | 7,405.0 | 35.8 | 36.6 | 53.00 | 1,775.8 | 517.9 | 373.9 | 314.9 | 59.03 | 6.334 | | |
| 9,800.0 | 7,630.0 | 9,599.0 | 7,405.0 | 37.4 | 38.1 | 52.87 | 1,875.7 | 516.5 | 372.8 | 311.3 | 61.53 | 6.059 | | |
| 9,900.0 | 7,630.0 | 9,699.0 | 7,405.0 | 39.0 | 39.7 | 52.74 | 1,975.7 | 515.1 | 371.7 | 307.7 | 64.03 | 5.805 | | |
| 10,000.0 | 7,630.0 | 9,799.0 | 7,405.0 | 40.7 | 41.3 | 52.61 | 2,075.7 | 513.7 | 370.6 | 304.0 | 66.54 | 5.569 | | |
| 10,100.0 | 7,630.0 | 9,899.0 | 7,405.0 | 42.3 | 43.0 | 52.48 | 2,175.7 | 512.3 | 369.5 | 300.4 | 69.05 | 5.351 | | |
| 10,200.0 | 7,630.0 | 9,999.0 | 7,405.0 | 44.0 | 44.6 | 52.35 | 2,275.7 | 510.9 | 368.4 | 296.8 | 71.57 | 5.147 | | |
| 10,300.0 | 7,630.0 | 10,099.0 | 7,405.0 | 45.6 | 46.2 | 52.22 | 2,375.6 | 509.5 | 367.3 | 293.2 | 74.09 | 4.957 | | |

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 Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - Sullivan 4L-26H-P268 - 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 | 7,630.0 | 10,199.0 | 7,405.0 | 47.3 | 47.9 | 52.08 | 2,475.6 | 508.1 | 366.2 | 289.5 | 76.61 | 4.779 | | |
| 10,500.0 | 7,630.0 | 10,299.0 | 7,405.0 | 49.0 | 49.5 | 51.95 | 2,575.6 | 506.7 | 365.1 | 285.9 | 79.13 | 4.613 | | |
| 10,600.0 | 7,630.0 | 10,399.0 | 7,405.0 | 50.7 | 51.2 | 51.81 | 2,675.6 | 505.3 | 364.0 | 282.3 | 81.65 | 4.458 | | |
| 10,700.0 | 7,630.0 | 10,499.0 | 7,405.0 | 52.3 | 52.9 | 51.68 | 2,775.6 | 503.9 | 362.9 | 278.7 | 84.16 | 4.311 | | |
| 10,800.0 | 7,630.0 | 10,598.9 | 7,405.0 | 54.0 | 54.5 | 51.54 | 2,875.5 | 502.5 | 361.8 | 275.1 | 86.67 | 4.174 | | |
| 10,900.0 | 7,630.0 | 10,698.9 | 7,405.0 | 55.7 | 56.2 | 51.40 | 2,975.5 | 501.1 | 360.7 | 271.5 | 89.18 | 4.045 | | |
| 11,000.0 | 7,630.0 | 10,798.9 | 7,405.0 | 57.4 | 57.9 | 51.26 | 3,075.5 | 499.7 | 359.6 | 267.9 | 91.68 | 3.922 | | |
| 11,100.0 | 7,630.0 | 10,898.9 | 7,405.0 | 59.1 | 59.6 | 51.12 | 3,175.5 | 498.3 | 358.5 | 264.3 | 94.17 | 3.807 | | |
| 11,200.0 | 7,630.0 | 10,998.9 | 7,405.0 | 60.8 | 61.3 | 50.98 | 3,275.5 | 496.9 | 357.4 | 260.8 | 96.66 | 3.698 | | |
| 11,300.0 | 7,630.0 | 11,098.9 | 7,405.0 | 62.5 | 63.0 | 50.84 | 3,375.5 | 495.5 | 356.3 | 257.2 | 99.13 | 3.594 | | |
| 11,400.0 | 7,630.0 | 11,198.9 | 7,405.0 | 64.2 | 64.6 | 50.70 | 3,475.4 | 494.1 | 355.2 | 253.6 | 101.61 | 3.496 | | |
| 11,500.0 | 7,630.0 | 11,298.9 | 7,405.0 | 66.0 | 66.3 | 50.56 | 3,575.4 | 492.7 | 354.2 | 250.1 | 104.07 | 3.403 | | |
| 11,600.0 | 7,630.0 | 11,398.9 | 7,405.0 | 67.7 | 68.0 | 50.41 | 3,675.4 | 491.3 | 353.1 | 246.6 | 106.52 | 3.315 | | |
| 11,700.0 | 7,630.0 | 11,498.9 | 7,405.0 | 69.4 | 69.8 | 50.27 | 3,775.4 | 489.9 | 352.0 | 243.0 | 108.97 | 3.230 | | |
| 11,800.0 | 7,630.0 | 11,598.8 | 7,405.0 | 71.1 | 71.5 | 50.12 | 3,875.4 | 488.5 | 350.9 | 239.5 | 111.40 | 3.150 | | |
| 11,900.0 | 7,630.0 | 11,698.8 | 7,405.0 | 72.8 | 73.2 | 49.97 | 3,975.3 | 487.1 | 349.9 | 236.0 | 113.82 | 3.074 | | |
| 12,000.0 | 7,630.0 | 11,798.8 | 7,405.0 | 74.5 | 74.9 | 49.83 | 4,075.3 | 485.7 | 348.8 | 232.6 | 116.24 | 3.001 | | |
| 12,100.0 | 7,630.0 | 11,898.8 | 7,405.0 | 76.3 | 76.6 | 49.68 | 4,175.3 | 484.4 | 347.7 | 229.1 | 118.64 | 2.931 | | |
| 12,200.0 | 7,630.0 | 11,998.8 | 7,405.0 | 78.0 | 78.3 | 49.53 | 4,275.3 | 483.0 | 346.7 | 225.6 | 121.03 | 2.864 | | |
| 12,300.0 | 7,630.0 | 12,098.8 | 7,405.0 | 79.7 | 80.0 | 49.38 | 4,375.3 | 481.6 | 345.6 | 222.2 | 123.41 | 2.800 | | |
| 12,400.0 | 7,630.0 | 12,198.8 | 7,405.0 | 81.4 | 81.7 | 49.23 | 4,475.2 | 480.2 | 344.6 | 218.8 | 125.78 | 2.739 | | |
| 12,500.0 | 7,630.0 | 12,298.8 | 7,405.0 | 83.2 | 83.5 | 49.08 | 4,575.2 | 478.8 | 343.5 | 215.4 | 128.13 | 2.681 | | |
| 12,600.0 | 7,630.0 | 12,398.8 | 7,405.0 | 84.9 | 85.2 | 48.92 | 4,675.2 | 477.4 | 342.4 | 212.0 | 130.48 | 2.625 | | |
| 12,700.0 | 7,630.0 | 12,498.8 | 7,405.0 | 86.6 | 86.9 | 48.77 | 4,775.2 | 476.0 | 341.4 | 208.6 | 132.81 | 2.571 | | |
| 12,800.0 | 7,630.0 | 12,598.7 | 7,405.0 | 88.4 | 88.6 | 48.61 | 4,875.2 | 474.6 | 340.3 | 205.2 | 135.13 | 2.519 | | |
| 12,900.0 | 7,630.0 | 12,698.7 | 7,405.0 | 90.1 | 90.4 | 48.46 | 4,975.1 | 473.2 | 339.3 | 201.9 | 137.43 | 2.469 | | |
| 13,000.0 | 7,630.0 | 12,798.7 | 7,405.0 | 91.8 | 92.1 | 48.30 | 5,075.1 | 471.8 | 338.3 | 198.5 | 139.72 | 2.421 | | |
| 13,100.0 | 7,630.0 | 12,898.7 | 7,405.0 | 93.6 | 93.8 | 48.14 | 5,175.1 | 470.4 | 337.2 | 195.2 | 141.99 | 2.375 | | |
| 13,200.0 | 7,630.0 | 12,998.7 | 7,405.0 | 95.3 | 95.5 | 47.98 | 5,275.1 | 469.0 | 336.2 | 191.9 | 144.26 | 2.330 | | |
| 13,300.0 | 7,630.0 | 13,098.7 | 7,405.0 | 97.0 | 97.3 | 47.82 | 5,375.1 | 467.6 | 335.1 | 188.6 | 146.50 | 2.288 | | |
| 13,400.0 | 7,630.0 | 13,198.7 | 7,405.0 | 98.8 | 99.0 | 47.66 | 5,475.0 | 466.2 | 334.1 | 185.4 | 148.73 | 2.246 | | |
| 13,500.0 | 7,630.0 | 13,298.7 | 7,405.0 | 100.5 | 100.7 | 47.50 | 5,575.0 | 464.8 | 333.1 | 182.1 | 150.95 | 2.206 | | |
| 13,600.0 | 7,630.0 | 13,398.7 | 7,405.0 | 102.2 | 102.5 | 47.34 | 5,675.0 | 463.4 | 332.0 | 178.9 | 153.15 | 2.168 | | |
| 13,700.0 | 7,630.0 | 13,498.7 | 7,405.0 | 104.0 | 104.2 | 47.18 | 5,775.0 | 462.0 | 331.0 | 175.7 | 155.34 | 2.131 | | |
| 13,800.0 | 7,630.0 | 13,598.7 | 7,405.0 | 105.7 | 105.9 | 47.01 | 5,875.0 | 460.6 | 330.0 | 172.5 | 157.51 | 2.095 | | |
| 13,900.0 | 7,630.0 | 13,698.6 | 7,405.0 | 107.4 | 107.7 | 46.84 | 5,974.9 | 459.2 | 329.0 | 169.3 | 159.66 | 2.060 | | |
| 14,000.0 | 7,630.0 | 13,798.6 | 7,405.0 | 109.2 | 109.4 | 46.68 | 6,074.9 | 457.8 | 328.0 | 166.2 | 161.80 | 2.027 | | |
| 14,100.0 | 7,630.0 | 13,898.6 | 7,405.0 | 110.9 | 111.1 | 46.51 | 6,174.9 | 456.4 | 326.9 | 163.0 | 163.92 | 1.995 | | |
| 14,200.0 | 7,630.0 | 13,998.6 | 7,405.0 | 112.7 | 112.9 | 46.34 | 6,274.9 | 455.0 | 325.9 | 159.9 | 166.02 | 1.963 | | |
| 14,300.0 | 7,630.0 | 14,098.6 | 7,405.0 | 114.4 | 114.6 | 46.17 | 6,374.9 | 453.6 | 324.9 | 156.8 | 168.11 | 1.933 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S26-T2N-R68W (Sullivan) - SULLIVAN 8-6-26 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | Offset Site Error: | | 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------|-------------------|----------------------|-----------------------|------------------------|-------------------|---------|--|
| Survey Program: 966-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 +N/-S (ft) | Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | |
| 7,800.0 | 7,601.0 | 7,683.6 | 7,595.1 | 14.2 | 20.9 | 36.10 | 779.1 | 433.2 | 929.6 | 904.2 | 25.40 | 36.602 | | |
| 7,900.0 | 7,624.0 | 7,705.5 | 7,617.0 | 14.3 | 21.0 | 61.57 | 778.9 | 433.5 | 835.1 | 805.4 | 29.70 | 28.117 | | |
| 8,000.0 | 7,630.0 | 7,710.8 | 7,622.3 | 14.5 | 21.0 | 90.60 | 778.9 | 433.5 | 739.1 | 707.2 | 31.88 | 23.181 | | |
| 8,100.0 | 7,630.0 | 7,710.2 | 7,621.6 | 15.0 | 21.0 | 90.44 | 778.9 | 433.5 | 644.0 | 611.7 | 32.36 | 19.899 | | |
| 8,200.0 | 7,630.0 | 7,709.6 | 7,621.0 | 15.6 | 21.0 | 90.27 | 778.9 | 433.5 | 550.7 | 517.7 | 33.03 | 16.671 | | |
| 8,300.0 | 7,630.0 | 7,708.9 | 7,620.4 | 16.4 | 21.0 | 90.10 | 778.9 | 433.5 | 460.2 | 426.4 | 33.87 | 13.589 | | |
| 8,400.0 | 7,630.0 | 7,708.3 | 7,619.8 | 17.4 | 21.0 | 89.93 | 778.9 | 433.5 | 374.6 | 339.8 | 34.85 | 10.752 | | |
| 8,500.0 | 7,630.0 | 7,707.7 | 7,619.1 | 18.5 | 21.0 | 89.76 | 778.9 | 433.5 | 298.1 | 262.2 | 35.94 | 8.296 | | |
| 8,600.0 | 7,630.0 | 7,707.0 | 7,618.5 | 19.6 | 21.0 | 89.59 | 778.9 | 433.5 | 239.6 | 202.5 | 37.13 | 6.454 | | |
| 8,700.0 | 7,630.0 | 7,706.4 | 7,617.9 | 20.9 | 21.0 | 89.42 | 778.9 | 433.5 | 214.4 | 176.0 | 38.40 | 5.582 | | |
| 8,707.3 | 7,630.0 | 7,706.3 | 7,617.8 | 21.0 | 21.0 | 89.41 | 778.9 | 433.5 | 214.2 | 175.7 | 38.50 | 5.565 CC, ES, SF | | |
| 8,800.0 | 7,630.0 | 7,705.8 | 7,617.2 | 22.2 | 21.0 | 89.25 | 778.9 | 433.5 | 233.4 | 193.7 | 39.74 | 5.873 | | |
| 8,900.0 | 7,630.0 | 7,705.1 | 7,616.6 | 23.6 | 21.0 | 89.08 | 778.9 | 433.5 | 288.1 | 247.0 | 41.14 | 7.004 | | |
| 9,000.0 | 7,630.0 | 7,704.5 | 7,615.9 | 25.0 | 21.0 | 88.91 | 779.0 | 433.5 | 362.7 | 320.1 | 42.58 | 8.519 | | |
| 9,100.0 | 7,630.0 | 7,703.8 | 7,615.3 | 26.4 | 21.0 | 88.73 | 779.0 | 433.5 | 447.3 | 403.2 | 44.05 | 10.154 | | |
| 9,200.0 | 7,630.0 | 7,703.2 | 7,614.6 | 27.9 | 21.0 | 88.56 | 779.0 | 433.4 | 537.2 | 491.7 | 45.56 | 11.791 | | |
| 9,300.0 | 7,630.0 | 7,702.5 | 7,614.0 | 29.5 | 21.0 | 88.38 | 779.0 | 433.4 | 630.2 | 583.1 | 47.10 | 13.381 | | |
| 9,400.0 | 7,630.0 | 7,701.8 | 7,613.3 | 31.0 | 21.0 | 88.21 | 779.0 | 433.4 | 725.0 | 676.4 | 48.65 | 14.902 | | |
| 9,500.0 | 7,630.0 | 7,701.2 | 7,612.7 | 32.6 | 21.0 | 88.03 | 779.0 | 433.4 | 821.1 | 770.9 | 50.23 | 16.347 | | |
| 9,600.0 | 7,630.0 | 7,700.5 | 7,612.0 | 34.2 | 21.0 | 87.86 | 779.0 | 433.4 | 918.0 | 866.2 | 51.82 | 17.714 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sullivan 4K-26H-P268 |
| Project: | DJ Wattenberg | TVD Reference: | well @ 4996.0ft |
| Reference Site: | S26-T2N-R68W (Sullivan) | MD Reference: | well @ 4996.0ft |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sullivan 4K-26H-P268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to well @ 4996.0ft

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Sullivan 4K-26H-P268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.35°

