



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site: | S32-T2N-R68W (File) | North Reference: | True |
| Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #1 | | |

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

| Site | | S32-T2N-R68W (File) | | | |
|-----------------------|----------|---------------------|-----------------|-------------------|-------------|
| Site Position: | | Northing: | 1,275,973.93 ft | Latitude: | 40.089950 |
| From: | Lat/Long | Easting: | 3,133,277.97 ft | Longitude: | -105.023660 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.31 ° |

| | | | | | | |
|----------------------|------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | File 3J-32H-K268 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,276,921.04 ft | Latitude: | 40.092580 |
| | +E/-W | 0.0 ft | Easting: | 3,131,224.91 ft | Longitude: | -105.030980 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,958.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Hz | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/28/2013 | 8.71 | 66.69 | 52,726 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 0.00 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,457.4 | 12.07 | 243.16 | 1,448.5 | -57.2 | -113.1 | 1.00 | 1.00 | 0.00 | 243.16 | |
| 6,891.2 | 12.07 | 243.16 | 6,762.0 | -570.4 | -1,127.3 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,845.4 | 90.00 | 0.00 | 7,378.0 | 0.0 | -1,244.8 | 10.00 | 8.17 | 12.24 | 116.33 | |
| 10,956.4 | 90.00 | 0.00 | 7,378.0 | 3,111.0 | -1,244.8 | 0.00 | 0.00 | 0.00 | 0.00 | File 3J-32H-K268 PBI |

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| Project: | DJ Wattenberg | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site: | S32-T2N-R68W (File) | North Reference: | True |
| Well: | File 3J-32H-K268 | 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 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 250' |
| 271.0 | 0.21 | 243.16 | 271.0 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | Fox Hills - BASE |
| 300.0 | 0.50 | 243.16 | 300.0 | -0.1 | -0.2 | -0.1 | 1.00 | 1.00 | |
| 400.0 | 1.50 | 243.16 | 400.0 | -0.9 | -1.8 | -0.9 | 1.00 | 1.00 | |
| 500.0 | 2.50 | 243.16 | 499.9 | -2.5 | -4.9 | -2.5 | 1.00 | 1.00 | |
| 600.0 | 3.50 | 243.16 | 599.8 | -4.8 | -9.5 | -4.8 | 1.00 | 1.00 | |
| 700.0 | 4.50 | 243.16 | 699.5 | -8.0 | -15.8 | -8.0 | 1.00 | 1.00 | |
| 800.0 | 5.50 | 243.16 | 799.2 | -11.9 | -23.5 | -11.9 | 1.00 | 1.00 | |
| 900.0 | 6.50 | 243.16 | 898.6 | -16.6 | -32.9 | -16.6 | 1.00 | 1.00 | |
| 1,000.0 | 7.50 | 243.16 | 997.9 | -22.1 | -43.7 | -22.1 | 1.00 | 1.00 | |
| 1,100.0 | 8.50 | 243.16 | 1,096.9 | -28.4 | -56.2 | -28.4 | 1.00 | 1.00 | |
| 1,200.0 | 9.50 | 243.16 | 1,195.7 | -35.5 | -70.1 | -35.5 | 1.00 | 1.00 | |
| 1,300.0 | 10.50 | 243.16 | 1,294.1 | -43.3 | -85.6 | -43.3 | 1.00 | 1.00 | |
| 1,400.0 | 11.50 | 243.16 | 1,392.3 | -51.9 | -102.6 | -51.9 | 1.00 | 1.00 | |
| 1,457.4 | 12.07 | 243.16 | 1,448.5 | -57.2 | -113.1 | -57.2 | 1.00 | 1.00 | EOB; Inc=12° |
| 1,500.0 | 12.07 | 243.16 | 1,490.1 | -61.3 | -121.0 | -61.3 | 0.00 | 0.00 | |
| 1,600.0 | 12.07 | 243.16 | 1,587.9 | -70.7 | -139.7 | -70.7 | 0.00 | 0.00 | |
| 1,700.0 | 12.07 | 243.16 | 1,685.7 | -80.1 | -158.4 | -80.1 | 0.00 | 0.00 | |
| 1,800.0 | 12.07 | 243.16 | 1,783.5 | -89.6 | -177.0 | -89.6 | 0.00 | 0.00 | |
| 1,900.0 | 12.07 | 243.16 | 1,881.3 | -99.0 | -195.7 | -99.0 | 0.00 | 0.00 | |
| 2,000.0 | 12.07 | 243.16 | 1,979.1 | -108.5 | -214.4 | -108.5 | 0.00 | 0.00 | |
| 2,100.0 | 12.07 | 243.16 | 2,076.9 | -117.9 | -233.0 | -117.9 | 0.00 | 0.00 | |
| 2,200.0 | 12.07 | 243.16 | 2,174.7 | -127.4 | -251.7 | -127.4 | 0.00 | 0.00 | |
| 2,300.0 | 12.07 | 243.16 | 2,272.4 | -136.8 | -270.4 | -136.8 | 0.00 | 0.00 | |
| 2,400.0 | 12.07 | 243.16 | 2,370.2 | -146.3 | -289.0 | -146.3 | 0.00 | 0.00 | |
| 2,500.0 | 12.07 | 243.16 | 2,468.0 | -155.7 | -307.7 | -155.7 | 0.00 | 0.00 | |
| 2,600.0 | 12.07 | 243.16 | 2,565.8 | -165.1 | -326.4 | -165.1 | 0.00 | 0.00 | |
| 2,700.0 | 12.07 | 243.16 | 2,663.6 | -174.6 | -345.0 | -174.6 | 0.00 | 0.00 | |
| 2,800.0 | 12.07 | 243.16 | 2,761.4 | -184.0 | -363.7 | -184.0 | 0.00 | 0.00 | |
| 2,900.0 | 12.07 | 243.16 | 2,859.2 | -193.5 | -382.3 | -193.5 | 0.00 | 0.00 | |
| 3,000.0 | 12.07 | 243.16 | 2,957.0 | -202.9 | -401.0 | -202.9 | 0.00 | 0.00 | |
| 3,100.0 | 12.07 | 243.16 | 3,054.7 | -212.4 | -419.7 | -212.4 | 0.00 | 0.00 | |
| 3,200.0 | 12.07 | 243.16 | 3,152.5 | -221.8 | -438.3 | -221.8 | 0.00 | 0.00 | |
| 3,300.0 | 12.07 | 243.16 | 3,250.3 | -231.3 | -457.0 | -231.3 | 0.00 | 0.00 | |
| 3,400.0 | 12.07 | 243.16 | 3,348.1 | -240.7 | -475.7 | -240.7 | 0.00 | 0.00 | |
| 3,500.0 | 12.07 | 243.16 | 3,445.9 | -250.1 | -494.3 | -250.1 | 0.00 | 0.00 | |
| 3,600.0 | 12.07 | 243.16 | 3,543.7 | -259.6 | -513.0 | -259.6 | 0.00 | 0.00 | |
| 3,700.0 | 12.07 | 243.16 | 3,641.5 | -269.0 | -531.7 | -269.0 | 0.00 | 0.00 | |
| 3,800.0 | 12.07 | 243.16 | 3,739.3 | -278.5 | -550.3 | -278.5 | 0.00 | 0.00 | |
| 3,900.0 | 12.07 | 243.16 | 3,837.0 | -287.9 | -569.0 | -287.9 | 0.00 | 0.00 | |
| 4,000.0 | 12.07 | 243.16 | 3,934.8 | -297.4 | -587.7 | -297.4 | 0.00 | 0.00 | |
| 4,100.0 | 12.07 | 243.16 | 4,032.6 | -306.8 | -606.3 | -306.8 | 0.00 | 0.00 | |
| 4,200.0 | 12.07 | 243.16 | 4,130.4 | -316.3 | -625.0 | -316.3 | 0.00 | 0.00 | |
| 4,300.0 | 12.07 | 243.16 | 4,228.2 | -325.7 | -643.6 | -325.7 | 0.00 | 0.00 | |
| 4,400.0 | 12.07 | 243.16 | 4,326.0 | -335.1 | -662.3 | -335.1 | 0.00 | 0.00 | |
| 4,401.0 | 12.07 | 243.16 | 4,327.0 | -335.2 | -662.5 | -335.2 | 0.00 | 0.00 | Sussex |
| 4,500.0 | 12.07 | 243.16 | 4,423.8 | -344.6 | -681.0 | -344.6 | 0.00 | 0.00 | |
| 4,600.0 | 12.07 | 243.16 | 4,521.6 | -354.0 | -699.6 | -354.0 | 0.00 | 0.00 | |
| 4,688.4 | 12.07 | 243.16 | 4,608.0 | -362.4 | -716.1 | -362.4 | 0.00 | 0.00 | Sussex Marker |

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| Site: | S32-T2N-R68W (File) | North Reference: | True |
| Well: | File 3J-32H-K268 | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------------|
| 4,700.0 | 12.07 | 243.16 | 4,619.3 | -363.5 | -718.3 | -363.5 | 0.00 | 0.00 | |
| 4,800.0 | 12.07 | 243.16 | 4,717.1 | -372.9 | -737.0 | -372.9 | 0.00 | 0.00 | |
| 4,900.0 | 12.07 | 243.16 | 4,814.9 | -382.4 | -755.6 | -382.4 | 0.00 | 0.00 | |
| 4,987.0 | 12.07 | 243.16 | 4,900.0 | -390.6 | -771.9 | -390.6 | 0.00 | 0.00 | Shannon |
| 5,000.0 | 12.07 | 243.16 | 4,912.7 | -391.8 | -774.3 | -391.8 | 0.00 | 0.00 | |
| 5,100.0 | 12.07 | 243.16 | 5,010.5 | -401.3 | -793.0 | -401.3 | 0.00 | 0.00 | |
| 5,200.0 | 12.07 | 243.16 | 5,108.3 | -410.7 | -811.6 | -410.7 | 0.00 | 0.00 | |
| 5,300.0 | 12.07 | 243.16 | 5,206.1 | -420.1 | -830.3 | -420.1 | 0.00 | 0.00 | |
| 5,400.0 | 12.07 | 243.16 | 5,303.9 | -429.6 | -849.0 | -429.6 | 0.00 | 0.00 | |
| 5,500.0 | 12.07 | 243.16 | 5,401.7 | -439.0 | -867.6 | -439.0 | 0.00 | 0.00 | |
| 5,600.0 | 12.07 | 243.16 | 5,499.4 | -448.5 | -886.3 | -448.5 | 0.00 | 0.00 | |
| 5,700.0 | 12.07 | 243.16 | 5,597.2 | -457.9 | -904.9 | -457.9 | 0.00 | 0.00 | |
| 5,800.0 | 12.07 | 243.16 | 5,695.0 | -467.4 | -923.6 | -467.4 | 0.00 | 0.00 | |
| 5,900.0 | 12.07 | 243.16 | 5,792.8 | -476.8 | -942.3 | -476.8 | 0.00 | 0.00 | |
| 6,000.0 | 12.07 | 243.16 | 5,890.6 | -486.3 | -960.9 | -486.3 | 0.00 | 0.00 | |
| 6,100.0 | 12.07 | 243.16 | 5,988.4 | -495.7 | -979.6 | -495.7 | 0.00 | 0.00 | |
| 6,200.0 | 12.07 | 243.16 | 6,086.2 | -505.1 | -998.3 | -505.1 | 0.00 | 0.00 | |
| 6,300.0 | 12.07 | 243.16 | 6,184.0 | -514.6 | -1,016.9 | -514.6 | 0.00 | 0.00 | |
| 6,400.0 | 12.07 | 243.16 | 6,281.7 | -524.0 | -1,035.6 | -524.0 | 0.00 | 0.00 | |
| 6,500.0 | 12.07 | 243.16 | 6,379.5 | -533.5 | -1,054.3 | -533.5 | 0.00 | 0.00 | |
| 6,600.0 | 12.07 | 243.16 | 6,477.3 | -542.9 | -1,072.9 | -542.9 | 0.00 | 0.00 | |
| 6,700.0 | 12.07 | 243.16 | 6,575.1 | -552.4 | -1,091.6 | -552.4 | 0.00 | 0.00 | |
| 6,800.0 | 12.07 | 243.16 | 6,672.9 | -561.8 | -1,110.3 | -561.8 | 0.00 | 0.00 | |
| 6,891.2 | 12.07 | 243.16 | 6,762.0 | -570.4 | -1,127.3 | -570.4 | 0.00 | 0.00 | Start build/turn @ 6891' MD |
| 6,900.0 | 11.71 | 247.06 | 6,770.7 | -571.2 | -1,128.9 | -571.2 | 10.00 | -4.14 | |
| 6,929.9 | 10.91 | 261.80 | 6,800.0 | -572.8 | -1,134.5 | -572.8 | 10.00 | -2.66 | Teepee Buttes (*if present) |
| 7,000.0 | 12.09 | 297.03 | 6,868.8 | -570.4 | -1,147.6 | -570.4 | 10.00 | 1.68 | |
| 7,100.0 | 18.79 | 325.87 | 6,965.3 | -552.2 | -1,166.1 | -552.2 | 10.00 | 6.70 | |
| 7,200.0 | 27.52 | 338.51 | 7,057.2 | -517.3 | -1,183.6 | -517.3 | 10.00 | 8.73 | |
| 7,300.0 | 36.87 | 345.25 | 7,141.7 | -466.7 | -1,199.7 | -466.7 | 10.00 | 9.35 | |
| 7,386.6 | 45.16 | 349.06 | 7,207.0 | -411.3 | -1,212.2 | -411.3 | 10.00 | 9.58 | Sharon Springs |
| 7,400.0 | 46.45 | 349.55 | 7,216.4 | -401.9 | -1,214.0 | -401.9 | 10.00 | 9.65 | |
| 7,500.0 | 56.16 | 352.65 | 7,278.8 | -324.9 | -1,225.9 | -324.9 | 10.00 | 9.71 | |
| 7,558.7 | 61.88 | 354.15 | 7,309.0 | -274.9 | -1,231.7 | -274.9 | 10.00 | 9.76 | Niobrara |
| 7,600.0 | 65.93 | 355.11 | 7,327.2 | -238.0 | -1,235.1 | -238.0 | 10.00 | 9.78 | |
| 7,700.0 | 75.73 | 357.22 | 7,360.0 | -143.8 | -1,241.4 | -143.8 | 10.00 | 9.80 | |
| 7,737.2 | 79.38 | 357.95 | 7,368.0 | -107.6 | -1,242.9 | -107.6 | 10.00 | 9.81 | B Chalk |
| 7,800.0 | 85.54 | 359.15 | 7,376.2 | -45.3 | -1,244.5 | -45.3 | 10.00 | 9.82 | |
| 7,845.4 | 90.00 | 0.00 | 7,378.0 | 0.0 | -1,244.8 | 0.0 | 10.00 | 9.82 | LP @ 7378' TVD; 90° |
| 7,900.0 | 90.00 | 0.00 | 7,378.0 | 54.6 | -1,244.8 | 54.6 | 0.00 | 0.00 | |
| 8,000.0 | 90.00 | 0.00 | 7,378.0 | 154.6 | -1,244.8 | 154.6 | 0.00 | 0.00 | |
| 8,100.0 | 90.00 | 0.00 | 7,378.0 | 254.6 | -1,244.8 | 254.6 | 0.00 | 0.00 | |
| 8,200.0 | 90.00 | 0.00 | 7,378.0 | 354.6 | -1,244.8 | 354.6 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 0.00 | 7,378.0 | 454.6 | -1,244.8 | 454.6 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 0.00 | 7,378.0 | 554.6 | -1,244.8 | 554.6 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 0.00 | 7,378.0 | 654.6 | -1,244.8 | 654.6 | 0.00 | 0.00 | |
| 8,600.0 | 90.00 | 0.00 | 7,378.0 | 754.6 | -1,244.8 | 754.6 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 0.00 | 7,378.0 | 854.6 | -1,244.8 | 854.6 | 0.00 | 0.00 | |
| 8,800.0 | 90.00 | 0.00 | 7,378.0 | 954.6 | -1,244.8 | 954.6 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 0.00 | 7,378.0 | 1,054.6 | -1,244.8 | 1,054.6 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 0.00 | 7,378.0 | 1,154.6 | -1,244.8 | 1,154.6 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 0.00 | 7,378.0 | 1,254.6 | -1,244.8 | 1,254.6 | 0.00 | 0.00 | |

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| Project: | DJ Wattenberg | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site: | S32-T2N-R68W (File) | North Reference: | True |
| Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 9,200.0 | 90.00 | 0.00 | 7,378.0 | 1,354.6 | -1,244.8 | 1,354.6 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 0.00 | 7,378.0 | 1,454.6 | -1,244.8 | 1,454.6 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 0.00 | 7,378.0 | 1,554.6 | -1,244.8 | 1,554.6 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 0.00 | 7,378.0 | 1,654.6 | -1,244.8 | 1,654.6 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 0.00 | 7,378.0 | 1,754.6 | -1,244.8 | 1,754.6 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 0.00 | 7,378.0 | 1,854.6 | -1,244.8 | 1,854.6 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 0.00 | 7,378.0 | 1,954.6 | -1,244.8 | 1,954.6 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 0.00 | 7,378.0 | 2,054.6 | -1,244.8 | 2,054.6 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 0.00 | 7,378.0 | 2,154.6 | -1,244.8 | 2,154.6 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 0.00 | 7,378.0 | 2,254.6 | -1,244.8 | 2,254.6 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 0.00 | 7,378.0 | 2,354.6 | -1,244.8 | 2,354.6 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 0.00 | 7,378.0 | 2,454.6 | -1,244.8 | 2,454.6 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 0.00 | 7,378.0 | 2,554.6 | -1,244.8 | 2,554.6 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 0.00 | 7,378.0 | 2,654.6 | -1,244.8 | 2,654.6 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 0.00 | 7,378.0 | 2,754.6 | -1,244.8 | 2,754.6 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 0.00 | 7,378.0 | 2,854.6 | -1,244.8 | 2,854.6 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 0.00 | 7,378.0 | 2,954.6 | -1,244.8 | 2,954.6 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 0.00 | 7,378.0 | 3,054.6 | -1,244.8 | 3,054.6 | 0.00 | 0.00 | |
| 10,956.4 | 90.00 | 0.00 | 7,378.0 | 3,111.0 | -1,244.8 | 3,111.0 | 0.00 | 0.00 | TD at 10956.4 |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| File 3J-32H-K268 PBHL | 0.00 | 0.00 | 7,378.0 | 3,111.0 | -1,244.8 | 1,280,025.39 | 3,129,963.64 | 40.101120 | -105.035430 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|-----------------------------|-----------|---------|-------------------|
| 271.0 | 271.0 | Fox Hills - BASE | | | |
| 4,401.0 | 4,327.0 | Sussex | | | |
| 4,688.4 | 4,608.0 | Sussex Marker | | | |
| 4,987.0 | 4,900.0 | Shannon | | | |
| 6,929.9 | 6,800.0 | Teepee Buttes (*if present) | | | |
| 7,386.6 | 7,207.0 | Sharon Springs | | | |
| 7,558.7 | 7,309.0 | Niobrara | | | |
| 7,737.2 | 7,368.0 | B Chalk | | | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site: | S32-T2N-R68W (File) | North Reference: | True |
| Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #1 | | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------------|---------------------------|-------------------|---------------|-----------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 250.0 | 250.0 | 0.0 | 0.0 | KOP @ 250' |
| 1,457.4 | 1,448.5 | -57.2 | -113.1 | EOB; Inc=12° |
| 6,891.2 | 6,762.0 | -570.4 | -1,127.3 | Start build/turn @ 6891' MD |
| 7,845.4 | 7,378.0 | 0.0 | -1,244.8 | LP @ 7378' TVD; 90° |
| 10,956.4 | 7,378.0 | 3,111.0 | -1,244.8 | TD at 10956.4 |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3J-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #1 | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 500.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | | |
|----------------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Tool Program | | Date | 6/28/2013 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 10,956.4 | Plan #1 (Hz) | Geolink MWD | Geolink MWD | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | 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 | | | | | | |
| S32-T2N-R68W (File) | | | | | | |
| ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S | | | | | | Out of range |
| ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV | | | | | | Out of range |
| ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL - | | | | | | Out of range |
| ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL - | | | | | | Out of range |
| ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W | | | | | | Out of range |
| BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV | | | | | | Out of range |
| BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | Out of range |
| BROWN 41-5 (EXISTING) - ENCANA WELL - Plan #2 | | | | | | Out of range |
| BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE | | | | | | Out of range |
| BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE | | | | | | Out of range |
| BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S | | | | | | Out of range |
| FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N | 10,760.4 | 7,281.0 | 269.4 | 202.1 | 4.004 | CC, ES, SF |
| File 3A-32H-K268 - Hz - Plan #1 | 200.0 | 199.0 | 67.2 | 66.6 | 103.293 | CC, ES |
| File 3A-32H-K268 - Hz - Plan #1 | 6,100.0 | 6,060.6 | 498.4 | 457.2 | 12.082 | SF |
| File 3B-32H-K268 - Hz - Plan #1 | 602.6 | 598.4 | 60.0 | 57.9 | 29.136 | CC |
| File 3B-32H-K268 - Hz - Plan #1 | 700.0 | 694.7 | 60.2 | 57.8 | 25.001 | ES |
| File 3B-32H-K268 - Hz - Plan #1 | 7,857.2 | 7,502.4 | 85.8 | 58.9 | 3.186 | SF |
| File 3C-32H-K268 - Hz - Plan #1 | 1,143.3 | 1,136.2 | 42.9 | 38.7 | 10.097 | CC |
| File 3C-32H-K268 - Hz - Plan #1 | 7,364.7 | 7,339.1 | 56.6 | 26.8 | 1.898 | ES, SF |
| File 3D-32H-K268 - Hz - Plan #1 | 880.1 | 875.8 | 36.3 | 33.2 | 11.601 | CC |
| File 3D-32H-K268 - Hz - Plan #1 | 900.0 | 895.6 | 36.3 | 33.1 | 11.304 | ES |
| File 3D-32H-K268 - Hz - Plan #1 | 1,100.0 | 1,093.9 | 41.6 | 37.4 | 9.927 | SF |
| File 3E-32H-K268 - Hz - Plan #1 | 839.1 | 837.4 | 18.3 | 15.3 | 6.131 | CC, ES |
| File 3E-32H-K268 - Hz - Plan #1 | 900.0 | 898.0 | 19.2 | 15.9 | 5.883 | SF |
| File 3F-32H-K268 - Hz - Plan #1 | 811.2 | 810.3 | 13.9 | 11.0 | 4.798 | CC, ES, SF |
| File 3G-32H-K268 - Hz - Plan #1 | 735.5 | 735.0 | 6.2 | 3.6 | 2.389 | CC, ES, SF |
| File 3H-32H-K268 - Hz - Plan #1 | 626.5 | 626.4 | 6.4 | 4.2 | 2.921 | CC, ES, SF |
| File 3I-32H-K268 - Hz - Plan #1 | 200.0 | 200.0 | 6.7 | 6.0 | 10.232 | CC, ES |
| File 3I-32H-K268 - Hz - Plan #1 | 1,500.0 | 1,497.1 | 21.3 | 15.4 | 3.565 | SF |
| File 3K-32H-K268 - Hz - Plan #1 | 200.0 | 200.0 | 6.7 | 6.0 | 10.229 | CC |
| File 3K-32H-K268 - Hz - Plan #1 | 300.0 | 300.0 | 6.8 | 5.8 | 6.776 | ES |
| File 3K-32H-K268 - Hz - Plan #1 | 10,956.4 | 11,127.7 | 417.5 | 318.4 | 4.213 | SF |
| File 3L-32H-K268 - Hz - Plan #1 | 200.0 | 200.0 | 8.4 | 7.7 | 12.858 | CC |
| File 3L-32H-K268 - Hz - Plan #1 | 300.0 | 300.0 | 8.6 | 7.6 | 8.573 | ES |
| File 3L-32H-K268 - Hz - Plan #1 | 500.0 | 500.1 | 12.8 | 11.1 | 7.533 | SF |
| File 3M-32H-K268 - Hz - Plan #1 | 200.0 | 200.0 | 25.4 | 24.8 | 38.976 | CC |
| File 3M-32H-K268 - Hz - Plan #1 | 300.0 | 300.1 | 25.5 | 24.5 | 25.388 | ES |
| File 3M-32H-K268 - Hz - Plan #1 | 800.0 | 799.6 | 43.7 | 40.8 | 14.859 | SF |
| File 3N-32H-K268 - Hz - Plan #1 | 200.0 | 200.0 | 28.0 | 27.3 | 42.861 | CC |
| File 3N-32H-K268 - Hz - Plan #1 | 300.0 | 300.0 | 28.2 | 27.2 | 28.121 | ES |
| File 3N-32H-K268 - Hz - Plan #1 | 600.0 | 599.4 | 39.2 | 37.1 | 18.929 | SF |
| File 3O-32H-K268 - Hz - Plan #1 | 200.0 | 200.0 | 33.8 | 33.1 | 51.735 | CC |
| File 3O-32H-K268 - Hz - Plan #1 | 227.8 | 227.8 | 33.8 | 33.0 | 45.079 | ES |
| File 3O-32H-K268 - Hz - Plan #1 | 600.0 | 597.8 | 50.0 | 48.0 | 24.213 | SF |
| File 3P-32H-K268 - Hz - Plan #1 | 200.0 | 200.0 | 39.2 | 38.5 | 60.005 | CC, ES |
| File 3P-32H-K268 - Hz - Plan #1 | 600.0 | 596.7 | 59.8 | 57.7 | 28.987 | SF |
| GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU | | | | | | Out of range |
| HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE | | | | | | Out of range |
| HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS | | | | | | Out of range |
| NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR | | | | | | Out of range |
| NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV | 4,984.6 | 4,869.7 | 411.8 | 385.5 | 15.682 | CC |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | 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) | Between Ellipses (ft) | Separation Factor | Warning |
|---|--|-------------------------------------|--|-----------------------------|----------------------|--------------|
| Offset Well - Wellbore - Design | | | | | | |
| S32-T2N-R68W (File) | | | | | | |
| NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV | 5,000.0 | 4,876.0 | 411.8 | 385.5 | 15.637 | ES, SF |
| NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV | | | | | | Out of range |
| NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV | 200.0 | 199.0 | 364.9 | 364.2 | 542.247 | CC |
| NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV | 300.0 | 299.0 | 365.1 | 364.1 | 357.397 | ES |
| NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV | 1,400.0 | 1,391.3 | 479.8 | 474.9 | 99.883 | SF |
| NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE | | | | | | Out of range |
| NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU | 5,210.1 | 5,035.0 | 366.4 | 344.3 | 16.578 | CC, ES, SF |
| NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE | | | | | | Out of range |
| NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S | 4,191.8 | 4,111.4 | 255.5 | 233.8 | 11.777 | CC |
| NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S | 4,200.0 | 4,119.4 | 255.6 | 233.8 | 11.751 | ES |
| NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S | 4,500.0 | 4,412.8 | 263.6 | 240.4 | 11.392 | SF |
| PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N | | | | | | Out of range |
| PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N | | | | | | Out of range |
| RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO | 9,518.9 | 7,355.0 | 280.8 | 234.1 | 6.007 | CC, ES, SF |
| RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO | 9,529.5 | 7,292.0 | 290.0 | 243.2 | 6.196 | CC, ES, SF |
| RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU | 8,226.5 | 7,537.7 | 77.4 | 37.4 | 1.934 | CC, ES, SF |
| RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU | | | | | | Out of range |
| RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO | 200.0 | 103.0 | 489.6 | 489.1 | 966.894 | CC |
| RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO | 300.0 | 203.0 | 489.8 | 488.9 | 572.602 | ES |
| RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO | 500.0 | 402.9 | 495.0 | 493.4 | 318.749 | SF |
| RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU | | | | | | Out of range |
| RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO | 9,518.9 | 7,355.0 | 274.4 | 227.6 | 5.869 | CC, ES, SF |
| Ray Nelson 33-32 - DD - Plan #1 | | | | | | Out of range |
| Ray Nelson 34-32 - DD - Plan #2 | | | | | | Out of range |
| Ray Nelson 44-32 - DD - Plan #2 | | | | | | Out of range |
| RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU | 125.9 | 129.0 | 492.7 | 492.3 | 1,244.459 | CC, ES |
| RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU | 300.0 | 283.0 | 496.2 | 495.2 | 504.942 | SF |
| RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU | 188.7 | 191.7 | 493.1 | 492.5 | 803.767 | CC |
| RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU | 200.0 | 201.9 | 493.1 | 492.5 | 757.266 | ES |
| RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU | 400.0 | 390.3 | 497.3 | 495.9 | 358.198 | SF |
| Ray Nelson 7-8-32 - DD - Plan #1 | | | | | | Out of range |
| Ray Nelson 8-8-32 - DD - Plan #2 | | | | | | Out of range |
| SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N | | | | | | Out of range |
| SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N | | | | | | Out of range |
| WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1 | | | | | | Out of range |
| WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1 | | | | | | Out of range |
| WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1 | | | | | | Out of range |
| WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1 | | | | | | Out of range |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 8107-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 10,400.0 | 7,378.0 | 7,281.0 | 7,281.0 | 53.2 | 12.7 | 90.00 | 2,915.0 | -975.5 | 449.9 | 388.7 | 61.18 | 7.354 | | |
| 10,500.0 | 7,378.0 | 7,281.0 | 7,281.0 | 54.7 | 12.7 | 90.00 | 2,915.0 | -975.5 | 374.6 | 311.8 | 62.87 | 5.959 | | |
| 10,600.0 | 7,378.0 | 7,281.0 | 7,281.0 | 56.3 | 12.7 | 90.00 | 2,915.0 | -975.5 | 313.5 | 248.9 | 64.56 | 4.856 | | |
| 10,700.0 | 7,378.0 | 7,281.0 | 7,281.0 | 57.8 | 12.7 | 90.00 | 2,915.0 | -975.5 | 276.1 | 209.8 | 66.26 | 4.167 | | |
| 10,760.4 | 7,378.0 | 7,281.0 | 7,281.0 | 58.8 | 12.7 | 90.00 | 2,915.0 | -975.5 | 269.4 | 202.1 | 67.28 | 4.004 | CC, ES, SF | |
| 10,800.0 | 7,378.0 | 7,281.0 | 7,281.0 | 59.4 | 12.7 | 90.00 | 2,915.0 | -975.5 | 272.3 | 204.3 | 67.96 | 4.007 | | |
| 10,900.0 | 7,378.0 | 7,281.0 | 7,281.0 | 61.0 | 12.7 | 90.00 | 2,915.0 | -975.5 | 303.4 | 233.8 | 69.66 | 4.356 | | |
| 10,956.4 | 7,378.0 | 7,281.0 | 7,281.0 | 61.9 | 12.7 | 90.00 | 2,915.0 | -975.5 | 333.1 | 262.5 | 70.62 | 4.717 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - 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 | -93.11 | -3.6 | -67.1 | 67.3 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.2 | 0.2 | -93.11 | -3.6 | -67.1 | 67.2 | 66.9 | 0.30 | 222.539 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -93.11 | -3.6 | -67.1 | 67.2 | 66.6 | 0.65 | 103.293 CC, ES | | |
| 300.0 | 300.0 | 297.8 | 297.8 | 0.5 | 0.5 | 23.75 | -3.8 | -68.0 | 67.9 | 66.9 | 1.00 | 68.019 | | |
| 400.0 | 400.0 | 396.7 | 396.6 | 0.7 | 0.7 | 24.17 | -4.1 | -70.5 | 68.9 | 67.5 | 1.35 | 51.181 | | |
| 500.0 | 499.9 | 495.5 | 495.3 | 0.9 | 0.9 | 25.04 | -4.6 | -74.7 | 70.0 | 68.3 | 1.69 | 41.308 | | |
| 600.0 | 599.8 | 594.2 | 593.9 | 1.1 | 1.1 | 26.32 | -5.4 | -80.6 | 71.2 | 69.2 | 2.04 | 34.843 | | |
| 700.0 | 699.5 | 693.0 | 692.4 | 1.3 | 1.3 | 28.01 | -6.4 | -88.2 | 72.7 | 70.3 | 2.40 | 30.296 | | |
| 800.0 | 799.2 | 791.7 | 790.6 | 1.5 | 1.5 | 30.04 | -7.6 | -97.4 | 74.4 | 71.6 | 2.76 | 26.932 | | |
| 900.0 | 898.6 | 890.3 | 888.7 | 1.7 | 1.7 | 32.38 | -9.0 | -108.3 | 76.4 | 73.2 | 3.14 | 24.341 | | |
| 1,000.0 | 997.9 | 988.9 | 986.5 | 2.0 | 2.0 | 34.98 | -10.6 | -120.9 | 78.7 | 75.2 | 3.53 | 22.276 | | |
| 1,100.0 | 1,096.9 | 1,087.5 | 1,084.0 | 2.3 | 2.3 | 37.79 | -12.5 | -135.2 | 81.5 | 77.5 | 3.96 | 20.576 | | |
| 1,200.0 | 1,195.7 | 1,186.0 | 1,181.2 | 2.6 | 2.6 | 40.74 | -14.5 | -151.1 | 84.7 | 80.3 | 4.43 | 19.138 | | |
| 1,300.0 | 1,294.1 | 1,284.5 | 1,278.0 | 2.9 | 3.0 | 43.78 | -16.8 | -168.6 | 88.5 | 83.5 | 4.94 | 17.893 | | |
| 1,400.0 | 1,392.3 | 1,382.9 | 1,374.5 | 3.3 | 3.3 | 46.84 | -19.3 | -187.8 | 92.8 | 87.2 | 5.52 | 16.797 | | |
| 1,500.0 | 1,490.1 | 1,481.2 | 1,470.5 | 3.6 | 3.7 | 49.83 | -22.0 | -208.6 | 97.8 | 91.6 | 6.16 | 15.862 | | |
| 1,600.0 | 1,587.9 | 1,579.4 | 1,566.1 | 4.0 | 4.2 | 52.15 | -24.9 | -231.0 | 104.3 | 97.4 | 6.83 | 15.254 | | |
| 1,700.0 | 1,685.7 | 1,677.9 | 1,661.6 | 4.4 | 4.6 | 53.72 | -28.0 | -255.1 | 112.3 | 104.8 | 7.52 | 14.938 | | |
| 1,800.0 | 1,783.5 | 1,777.5 | 1,758.0 | 4.8 | 5.1 | 54.95 | -31.2 | -279.9 | 120.8 | 112.6 | 8.21 | 14.705 | | |
| 1,900.0 | 1,881.3 | 1,877.1 | 1,854.4 | 5.2 | 5.5 | 56.02 | -34.4 | -304.7 | 129.3 | 120.4 | 8.92 | 14.493 | | |
| 2,000.0 | 1,979.1 | 1,976.7 | 1,950.8 | 5.6 | 6.0 | 56.96 | -37.7 | -329.5 | 137.9 | 128.3 | 9.65 | 14.300 | | |
| 2,100.0 | 2,076.9 | 2,076.3 | 2,047.2 | 6.0 | 6.5 | 57.78 | -40.9 | -354.4 | 146.5 | 136.2 | 10.38 | 14.125 | | |
| 2,200.0 | 2,174.7 | 2,175.9 | 2,143.6 | 6.4 | 6.9 | 58.52 | -44.1 | -379.2 | 155.2 | 144.1 | 11.11 | 13.966 | | |
| 2,300.0 | 2,272.4 | 2,275.5 | 2,240.0 | 6.8 | 7.4 | 59.17 | -47.3 | -404.0 | 163.9 | 152.0 | 11.86 | 13.823 | | |
| 2,400.0 | 2,370.2 | 2,375.1 | 2,336.4 | 7.2 | 7.9 | 59.77 | -50.5 | -428.8 | 172.6 | 160.0 | 12.60 | 13.692 | | |
| 2,500.0 | 2,468.0 | 2,474.7 | 2,432.9 | 7.6 | 8.4 | 60.30 | -53.7 | -453.6 | 181.3 | 167.9 | 13.36 | 13.573 | | |
| 2,600.0 | 2,565.8 | 2,574.3 | 2,529.3 | 8.0 | 8.8 | 60.79 | -57.0 | -478.4 | 190.0 | 175.9 | 14.11 | 13.464 | | |
| 2,700.0 | 2,663.6 | 2,673.9 | 2,625.7 | 8.4 | 9.3 | 61.23 | -60.2 | -503.3 | 198.7 | 183.9 | 14.87 | 13.365 | | |
| 2,800.0 | 2,761.4 | 2,773.6 | 2,722.1 | 8.8 | 9.8 | 61.63 | -63.4 | -528.1 | 207.5 | 191.8 | 15.63 | 13.273 | | |
| 2,900.0 | 2,859.2 | 2,873.2 | 2,818.5 | 9.3 | 10.3 | 62.01 | -66.6 | -552.9 | 216.2 | 199.8 | 16.39 | 13.189 | | |
| 3,000.0 | 2,957.0 | 2,972.8 | 2,914.9 | 9.7 | 10.7 | 62.35 | -69.8 | -577.7 | 225.0 | 207.8 | 17.16 | 13.112 | | |
| 3,100.0 | 3,054.7 | 3,072.4 | 3,011.3 | 10.1 | 11.2 | 62.67 | -73.0 | -602.5 | 233.8 | 215.8 | 17.93 | 13.040 | | |
| 3,200.0 | 3,152.5 | 3,172.0 | 3,107.7 | 10.5 | 11.7 | 62.96 | -76.3 | -627.4 | 242.6 | 223.9 | 18.70 | 12.973 | | |
| 3,300.0 | 3,250.3 | 3,271.6 | 3,204.1 | 10.9 | 12.2 | 63.24 | -79.5 | -652.2 | 251.3 | 231.9 | 19.47 | 12.912 | | |
| 3,400.0 | 3,348.1 | 3,371.2 | 3,300.6 | 11.3 | 12.7 | 63.49 | -82.7 | -677.0 | 260.1 | 239.9 | 20.24 | 12.854 | | |
| 3,500.0 | 3,445.9 | 3,470.8 | 3,397.0 | 11.7 | 13.1 | 63.73 | -85.9 | -701.8 | 268.9 | 247.9 | 21.01 | 12.800 | | |
| 3,600.0 | 3,543.7 | 3,570.4 | 3,493.4 | 12.1 | 13.6 | 63.96 | -89.1 | -726.6 | 277.7 | 255.9 | 21.78 | 12.750 | | |
| 3,700.0 | 3,641.5 | 3,670.0 | 3,589.8 | 12.5 | 14.1 | 64.17 | -92.3 | -751.5 | 286.5 | 264.0 | 22.56 | 12.703 | | |
| 3,800.0 | 3,739.3 | 3,769.6 | 3,686.2 | 12.9 | 14.6 | 64.36 | -95.6 | -776.3 | 295.3 | 272.0 | 23.33 | 12.659 | | |
| 3,900.0 | 3,837.0 | 3,869.2 | 3,782.6 | 13.3 | 15.1 | 64.55 | -98.8 | -801.1 | 304.1 | 280.0 | 24.11 | 12.617 | | |
| 4,000.0 | 3,934.8 | 3,968.8 | 3,879.0 | 13.7 | 15.5 | 64.72 | -102.0 | -825.9 | 313.0 | 288.1 | 24.88 | 12.578 | | |
| 4,100.0 | 4,032.6 | 4,068.4 | 3,975.4 | 14.1 | 16.0 | 64.89 | -105.2 | -850.7 | 321.8 | 296.1 | 25.66 | 12.541 | | |
| 4,200.0 | 4,130.4 | 4,168.0 | 4,071.8 | 14.6 | 16.5 | 65.05 | -108.4 | -875.6 | 330.6 | 304.2 | 26.43 | 12.506 | | |
| 4,300.0 | 4,228.2 | 4,267.7 | 4,168.3 | 15.0 | 17.0 | 65.20 | -111.7 | -900.4 | 339.4 | 312.2 | 27.21 | 12.473 | | |
| 4,400.0 | 4,326.0 | 4,367.3 | 4,264.7 | 15.4 | 17.5 | 65.34 | -114.9 | -925.2 | 348.2 | 320.2 | 27.99 | 12.441 | | |
| 4,500.0 | 4,423.8 | 4,466.9 | 4,361.1 | 15.8 | 17.9 | 65.47 | -118.1 | -950.0 | 357.1 | 328.3 | 28.77 | 12.411 | | |
| 4,600.0 | 4,521.6 | 4,566.5 | 4,457.5 | 16.2 | 18.4 | 65.60 | -121.3 | -974.8 | 365.9 | 336.3 | 29.55 | 12.383 | | |
| 4,700.0 | 4,619.3 | 4,666.1 | 4,553.9 | 16.6 | 18.9 | 65.72 | -124.5 | -999.6 | 374.7 | 344.4 | 30.33 | 12.356 | | |
| 4,800.0 | 4,717.1 | 4,765.7 | 4,650.3 | 17.0 | 19.4 | 65.84 | -127.7 | -1,024.5 | 383.5 | 352.4 | 31.10 | 12.331 | | |
| 4,900.0 | 4,814.9 | 4,865.3 | 4,746.7 | 17.4 | 19.9 | 65.95 | -131.0 | -1,049.3 | 392.4 | 360.5 | 31.88 | 12.306 | | |
| 5,000.0 | 4,912.7 | 4,964.9 | 4,843.1 | 17.8 | 20.4 | 66.06 | -134.2 | -1,074.1 | 401.2 | 368.5 | 32.66 | 12.283 | | |
| 5,100.0 | 5,010.5 | 5,064.5 | 4,939.5 | 18.2 | 20.8 | 66.16 | -137.4 | -1,098.9 | 410.0 | 376.6 | 33.44 | 12.260 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3A-32H-K268 - 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 | 5,108.3 | 5,164.1 | 5,036.0 | 18.6 | 21.3 | 66.26 | -140.6 | -1,123.7 | 418.9 | 384.6 | 34.22 | 12.239 | |
| 5,300.0 | 5,206.1 | 5,263.7 | 5,132.4 | 19.1 | 21.8 | 66.35 | -143.8 | -1,148.6 | 427.7 | 392.7 | 35.00 | 12.219 | |
| 5,400.0 | 5,303.9 | 5,363.3 | 5,228.8 | 19.5 | 22.3 | 66.44 | -147.0 | -1,173.4 | 436.5 | 400.8 | 35.78 | 12.199 | |
| 5,500.0 | 5,401.7 | 5,462.9 | 5,325.2 | 19.9 | 22.8 | 66.52 | -150.3 | -1,198.2 | 445.4 | 408.8 | 36.57 | 12.180 | |
| 5,600.0 | 5,499.4 | 5,562.5 | 5,421.6 | 20.3 | 23.2 | 66.61 | -153.5 | -1,223.0 | 454.2 | 416.9 | 37.35 | 12.162 | |
| 5,700.0 | 5,597.2 | 5,662.1 | 5,518.0 | 20.7 | 23.7 | 66.69 | -156.7 | -1,247.8 | 463.1 | 424.9 | 38.13 | 12.145 | |
| 5,800.0 | 5,695.0 | 5,761.7 | 5,614.4 | 21.1 | 24.2 | 66.76 | -159.9 | -1,272.7 | 471.9 | 433.0 | 38.91 | 12.128 | |
| 5,900.0 | 5,792.8 | 5,861.4 | 5,710.8 | 21.5 | 24.7 | 66.84 | -163.1 | -1,297.5 | 480.7 | 441.1 | 39.69 | 12.112 | |
| 6,000.0 | 5,890.6 | 5,961.0 | 5,807.2 | 21.9 | 25.2 | 66.91 | -166.3 | -1,322.3 | 489.6 | 449.1 | 40.47 | 12.097 | |
| 6,100.0 | 5,988.4 | 6,060.6 | 5,903.7 | 22.3 | 25.6 | 66.98 | -169.6 | -1,347.1 | 498.4 | 457.2 | 41.25 | 12.082 SF | |
| 7,300.0 | 7,141.7 | 7,356.7 | 7,138.4 | 26.2 | 32.1 | -61.28 | -302.0 | -1,665.0 | 493.5 | 460.8 | 32.71 | 15.087 | |
| 7,400.0 | 7,216.4 | 7,387.9 | 7,162.8 | 26.1 | 32.3 | -70.92 | -320.4 | -1,671.2 | 467.4 | 437.5 | 29.89 | 15.638 | |
| 7,486.1 | 7,271.0 | 7,391.7 | 7,165.6 | 26.1 | 32.3 | -73.88 | -322.7 | -1,672.0 | 459.8 | 430.7 | 29.04 | 15.835 | |
| 7,500.0 | 7,278.8 | 7,391.0 | 7,165.1 | 26.0 | 32.3 | -73.99 | -322.3 | -1,671.8 | 460.0 | 431.0 | 28.97 | 15.880 | |
| 7,600.0 | 7,327.2 | 7,378.2 | 7,155.3 | 26.0 | 32.2 | -72.32 | -314.6 | -1,669.3 | 472.8 | 444.2 | 28.66 | 16.501 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.00 | 0.0 | -61.6 | 61.6 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.2 | 0.2 | -90.00 | 0.0 | -61.6 | 61.6 | 61.2 | 0.30 | 203.695 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -90.00 | 0.0 | -61.6 | 61.6 | 60.9 | 0.65 | 94.546 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 26.93 | 0.0 | -61.6 | 61.4 | 60.4 | 1.00 | 61.352 | | |
| 400.0 | 400.0 | 398.0 | 397.9 | 0.7 | 0.7 | 27.75 | 0.1 | -62.4 | 60.6 | 59.3 | 1.35 | 45.005 | | |
| 500.0 | 499.9 | 496.9 | 496.9 | 0.9 | 0.8 | 29.47 | 0.3 | -64.9 | 60.2 | 58.5 | 1.70 | 35.459 | | |
| 600.0 | 599.8 | 595.8 | 595.7 | 1.1 | 1.0 | 32.10 | 0.7 | -69.2 | 60.0 | 57.9 | 2.05 | 29.268 | | |
| 602.6 | 602.4 | 598.4 | 598.3 | 1.1 | 1.0 | 32.18 | 0.7 | -69.3 | 60.0 | 57.9 | 2.06 | 29.136 | CC | |
| 700.0 | 699.5 | 694.7 | 694.4 | 1.3 | 1.2 | 35.59 | 1.3 | -75.1 | 60.2 | 57.8 | 2.41 | 25.001 | ES | |
| 800.0 | 799.2 | 793.6 | 793.0 | 1.5 | 1.4 | 39.87 | 2.0 | -82.7 | 61.0 | 58.2 | 2.78 | 21.953 | | |
| 900.0 | 898.6 | 892.4 | 891.3 | 1.7 | 1.7 | 44.78 | 2.8 | -92.0 | 62.6 | 59.4 | 3.17 | 19.729 | | |
| 1,000.0 | 997.9 | 991.1 | 989.4 | 2.0 | 1.9 | 50.11 | 3.9 | -103.0 | 65.1 | 61.5 | 3.60 | 18.090 | | |
| 1,100.0 | 1,096.9 | 1,089.7 | 1,087.2 | 2.3 | 2.2 | 55.60 | 5.0 | -115.7 | 68.8 | 64.7 | 4.08 | 16.875 | | |
| 1,200.0 | 1,195.7 | 1,188.3 | 1,184.7 | 2.6 | 2.5 | 61.01 | 6.4 | -130.0 | 73.7 | 69.1 | 4.61 | 15.979 | | |
| 1,300.0 | 1,294.1 | 1,286.7 | 1,281.9 | 2.9 | 2.8 | 66.14 | 7.9 | -145.9 | 79.9 | 74.7 | 5.21 | 15.327 | | |
| 1,400.0 | 1,392.3 | 1,385.0 | 1,378.6 | 3.3 | 3.1 | 70.84 | 9.5 | -163.5 | 87.5 | 81.6 | 5.88 | 14.863 | | |
| 1,500.0 | 1,490.1 | 1,484.2 | 1,475.9 | 3.6 | 3.5 | 75.25 | 11.3 | -182.5 | 96.0 | 89.4 | 6.61 | 14.521 | | |
| 1,600.0 | 1,587.9 | 1,583.5 | 1,573.4 | 4.0 | 3.8 | 79.11 | 13.1 | -201.5 | 104.9 | 97.6 | 7.36 | 14.260 | | |
| 1,700.0 | 1,685.7 | 1,682.9 | 1,670.9 | 4.4 | 4.2 | 82.36 | 14.8 | -220.5 | 114.3 | 106.2 | 8.12 | 14.078 | | |
| 1,800.0 | 1,783.5 | 1,782.3 | 1,768.4 | 4.8 | 4.5 | 85.11 | 16.6 | -239.5 | 124.0 | 115.1 | 8.89 | 13.951 | | |
| 1,900.0 | 1,881.3 | 1,881.6 | 1,865.9 | 5.2 | 4.9 | 87.45 | 18.4 | -258.5 | 133.9 | 124.2 | 9.66 | 13.865 | | |
| 2,000.0 | 1,979.1 | 1,981.0 | 1,963.4 | 5.6 | 5.3 | 89.47 | 20.1 | -277.5 | 144.0 | 133.6 | 10.43 | 13.808 | | |
| 2,100.0 | 2,076.9 | 2,080.4 | 2,061.0 | 6.0 | 5.6 | 91.23 | 21.9 | -296.5 | 154.3 | 143.1 | 11.20 | 13.772 | | |
| 2,200.0 | 2,174.7 | 2,179.7 | 2,158.5 | 6.4 | 6.0 | 92.76 | 23.7 | -315.5 | 164.7 | 152.7 | 11.97 | 13.752 | | |
| 2,300.0 | 2,272.4 | 2,279.1 | 2,256.0 | 6.8 | 6.4 | 94.11 | 25.5 | -334.5 | 175.2 | 162.4 | 12.75 | 13.743 | | |
| 2,400.0 | 2,370.2 | 2,378.5 | 2,353.5 | 7.2 | 6.8 | 95.31 | 27.2 | -353.5 | 185.7 | 172.2 | 13.52 | 13.742 | | |
| 2,500.0 | 2,468.0 | 2,477.8 | 2,451.0 | 7.6 | 7.1 | 96.38 | 29.0 | -372.5 | 196.4 | 182.1 | 14.29 | 13.747 | | |
| 2,600.0 | 2,565.8 | 2,577.2 | 2,548.6 | 8.0 | 7.5 | 97.34 | 30.8 | -391.5 | 207.1 | 192.0 | 15.06 | 13.756 | | |
| 2,700.0 | 2,663.6 | 2,676.6 | 2,646.1 | 8.4 | 7.9 | 98.20 | 32.6 | -410.5 | 217.9 | 202.0 | 15.82 | 13.769 | | |
| 2,800.0 | 2,761.4 | 2,776.0 | 2,743.6 | 8.8 | 8.3 | 98.99 | 34.3 | -429.5 | 228.7 | 212.1 | 16.59 | 13.783 | | |
| 2,900.0 | 2,859.2 | 2,875.3 | 2,841.1 | 9.3 | 8.6 | 99.70 | 36.1 | -448.5 | 239.5 | 222.2 | 17.36 | 13.799 | | |
| 3,000.0 | 2,957.0 | 2,974.7 | 2,938.6 | 9.7 | 9.0 | 100.35 | 37.9 | -467.5 | 250.4 | 232.3 | 18.12 | 13.816 | | |
| 3,100.0 | 3,054.7 | 3,074.1 | 3,036.2 | 10.1 | 9.4 | 100.95 | 39.7 | -486.5 | 261.3 | 242.4 | 18.89 | 13.834 | | |
| 3,200.0 | 3,152.5 | 3,173.4 | 3,133.7 | 10.5 | 9.8 | 101.49 | 41.4 | -505.5 | 272.2 | 252.6 | 19.65 | 13.852 | | |
| 3,300.0 | 3,250.3 | 3,272.8 | 3,231.2 | 10.9 | 10.2 | 102.00 | 43.2 | -524.5 | 283.2 | 262.8 | 20.42 | 13.870 | | |
| 3,400.0 | 3,348.1 | 3,372.2 | 3,328.7 | 11.3 | 10.5 | 102.47 | 45.0 | -543.5 | 294.2 | 273.0 | 21.18 | 13.888 | | |
| 3,500.0 | 3,445.9 | 3,471.5 | 3,426.2 | 11.7 | 10.9 | 102.90 | 46.7 | -562.5 | 305.2 | 283.2 | 21.95 | 13.906 | | |
| 3,600.0 | 3,543.7 | 3,570.9 | 3,523.7 | 12.1 | 11.3 | 103.31 | 48.5 | -581.5 | 316.2 | 293.5 | 22.71 | 13.923 | | |
| 3,700.0 | 3,641.5 | 3,670.3 | 3,621.3 | 12.5 | 11.7 | 103.68 | 50.3 | -600.5 | 327.2 | 303.7 | 23.47 | 13.941 | | |
| 3,800.0 | 3,739.3 | 3,769.6 | 3,718.8 | 12.9 | 12.0 | 104.04 | 52.1 | -619.5 | 338.3 | 314.0 | 24.23 | 13.958 | | |
| 3,900.0 | 3,837.0 | 3,869.0 | 3,816.3 | 13.3 | 12.4 | 104.37 | 53.8 | -638.5 | 349.3 | 324.3 | 25.00 | 13.974 | | |
| 4,000.0 | 3,934.8 | 3,968.4 | 3,913.8 | 13.7 | 12.8 | 104.68 | 55.6 | -657.5 | 360.4 | 334.6 | 25.76 | 13.990 | | |
| 4,100.0 | 4,032.6 | 4,067.7 | 4,011.3 | 14.1 | 13.2 | 104.97 | 57.4 | -676.5 | 371.4 | 344.9 | 26.52 | 14.006 | | |
| 4,200.0 | 4,130.4 | 4,167.1 | 4,108.9 | 14.6 | 13.6 | 105.24 | 59.2 | -695.5 | 382.5 | 355.2 | 27.28 | 14.021 | | |
| 4,300.0 | 4,228.2 | 4,266.5 | 4,206.4 | 15.0 | 13.9 | 105.50 | 60.9 | -714.5 | 393.6 | 365.6 | 28.04 | 14.036 | | |
| 4,400.0 | 4,326.0 | 4,365.8 | 4,303.9 | 15.4 | 14.3 | 105.75 | 62.7 | -733.5 | 404.7 | 375.9 | 28.80 | 14.051 | | |
| 4,500.0 | 4,423.8 | 4,465.2 | 4,401.4 | 15.8 | 14.7 | 105.98 | 64.5 | -752.5 | 415.8 | 386.2 | 29.56 | 14.065 | | |
| 4,600.0 | 4,521.6 | 4,564.6 | 4,498.9 | 16.2 | 15.1 | 106.20 | 66.3 | -771.5 | 426.9 | 396.6 | 30.32 | 14.078 | | |
| 4,700.0 | 4,619.3 | 4,663.9 | 4,596.4 | 16.6 | 15.5 | 106.41 | 68.0 | -790.5 | 438.0 | 407.0 | 31.08 | 14.092 | | |
| 4,800.0 | 4,717.1 | 4,763.3 | 4,694.0 | 17.0 | 15.8 | 106.61 | 69.8 | -809.5 | 449.2 | 417.3 | 31.85 | 14.105 | | |
| 4,900.0 | 4,814.9 | 4,862.7 | 4,791.5 | 17.4 | 16.2 | 106.80 | 71.6 | -828.5 | 460.3 | 427.7 | 32.61 | 14.117 | | |
| 5,000.0 | 4,912.7 | 4,962.0 | 4,889.0 | 17.8 | 16.6 | 106.98 | 73.3 | -847.5 | 471.4 | 438.1 | 33.37 | 14.129 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3B-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | | | | |
| 5,100.0 | 5,010.5 | 5,061.4 | 4,986.5 | 18.2 | 17.0 | 107.15 | 75.1 | -866.5 | 482.6 | 448.4 | 34.12 | 14.141 | | |
| 5,200.0 | 5,108.3 | 5,160.8 | 5,084.0 | 18.6 | 17.4 | 107.31 | 76.9 | -885.5 | 493.7 | 458.8 | 34.88 | 14.152 | | |
| 7,300.0 | 7,141.7 | 8,063.7 | 7,606.0 | 26.2 | 28.6 | -144.83 | -466.7 | -1,376.8 | 497.8 | 460.9 | 36.93 | 13.480 | | |
| 7,400.0 | 7,216.4 | 7,854.3 | 7,571.0 | 26.1 | 27.5 | -138.21 | -261.6 | -1,370.0 | 412.9 | 381.7 | 31.22 | 13.228 | | |
| 7,500.0 | 7,278.8 | 7,743.2 | 7,523.5 | 26.0 | 27.0 | -132.75 | -161.7 | -1,360.8 | 324.3 | 297.3 | 26.93 | 12.041 | | |
| 7,600.0 | 7,327.2 | 7,663.8 | 7,478.3 | 26.0 | 26.7 | -126.62 | -97.0 | -1,352.0 | 238.0 | 213.7 | 24.30 | 9.797 | | |
| 7,700.0 | 7,360.0 | 7,596.4 | 7,433.5 | 26.0 | 26.5 | -115.97 | -47.6 | -1,343.2 | 158.7 | 134.6 | 24.08 | 6.591 | | |
| 7,800.0 | 7,376.2 | 7,534.7 | 7,387.7 | 26.0 | 26.3 | -95.99 | -7.3 | -1,334.3 | 98.3 | 72.1 | 26.20 | 3.753 | | |
| 7,857.2 | 7,379.4 | 7,502.4 | 7,362.0 | 26.0 | 26.2 | -78.97 | 11.8 | -1,329.3 | 85.8 | 58.9 | 26.92 | 3.186 SF | | |
| 7,900.0 | 7,378.0 | 7,478.4 | 7,342.3 | 26.1 | 26.1 | -66.73 | 24.9 | -1,325.5 | 92.7 | 66.1 | 26.51 | 3.495 | | |
| 8,000.0 | 7,378.0 | 7,434.5 | 7,305.0 | 26.3 | 25.9 | -45.55 | 46.8 | -1,318.2 | 149.0 | 124.7 | 24.31 | 6.128 | | |
| 8,100.0 | 7,378.0 | 7,400.0 | 7,274.6 | 26.7 | 25.8 | -33.36 | 61.9 | -1,312.3 | 228.4 | 205.9 | 22.50 | 10.152 | | |
| 8,200.0 | 7,378.0 | 7,373.7 | 7,250.8 | 27.1 | 25.7 | -26.44 | 72.2 | -1,307.6 | 315.7 | 294.2 | 21.51 | 14.679 | | |
| 8,300.0 | 7,378.0 | 7,350.0 | 7,229.0 | 27.7 | 25.7 | -21.58 | 80.4 | -1,303.4 | 406.6 | 385.8 | 20.88 | 19.475 | | |
| 8,400.0 | 7,378.0 | 7,334.0 | 7,214.1 | 28.3 | 25.6 | -18.86 | 85.5 | -1,300.5 | 499.7 | 479.0 | 20.68 | 24.164 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - 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 | -93.73 | -3.6 | -56.0 | 56.1 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.2 | 0.2 | -93.73 | -3.6 | -56.0 | 56.1 | 55.8 | 0.30 | 185.570 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -93.73 | -3.6 | -56.0 | 56.1 | 55.4 | 0.65 | 86.133 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 23.20 | -3.6 | -56.0 | 55.9 | 54.9 | 1.00 | 55.869 | | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.7 | 0.7 | 23.93 | -3.6 | -56.0 | 54.3 | 52.9 | 1.35 | 40.225 | | |
| 500.0 | 499.9 | 498.1 | 498.1 | 0.9 | 0.8 | 25.30 | -3.9 | -56.8 | 51.9 | 50.2 | 1.70 | 30.586 | | |
| 600.0 | 599.8 | 597.2 | 597.1 | 1.1 | 1.0 | 27.20 | -4.5 | -59.2 | 49.7 | 47.7 | 2.05 | 24.274 | | |
| 700.0 | 699.5 | 696.3 | 696.2 | 1.3 | 1.2 | 29.68 | -5.6 | -63.4 | 47.7 | 45.3 | 2.40 | 19.845 | | |
| 800.0 | 799.2 | 795.5 | 795.2 | 1.5 | 1.4 | 32.79 | -7.1 | -69.2 | 46.0 | 43.2 | 2.77 | 16.588 | | |
| 900.0 | 898.6 | 894.7 | 894.1 | 1.7 | 1.6 | 36.55 | -9.0 | -76.6 | 44.5 | 41.4 | 3.16 | 14.112 | | |
| 1,000.0 | 997.9 | 994.0 | 992.9 | 2.0 | 1.8 | 40.94 | -11.4 | -85.7 | 43.5 | 39.9 | 3.57 | 12.185 | | |
| 1,100.0 | 1,096.9 | 1,093.3 | 1,091.6 | 2.3 | 2.1 | 45.90 | -14.2 | -96.5 | 43.0 | 38.9 | 4.03 | 10.661 | | |
| 1,143.3 | 1,139.6 | 1,136.2 | 1,134.2 | 2.4 | 2.2 | 48.20 | -15.6 | -101.7 | 42.9 | 38.7 | 4.25 | 10.097 CC | | |
| 1,200.0 | 1,195.7 | 1,192.6 | 1,190.1 | 2.6 | 2.3 | 51.30 | -17.5 | -108.9 | 43.0 | 38.5 | 4.55 | 9.448 | | |
| 1,300.0 | 1,294.1 | 1,291.9 | 1,288.3 | 2.9 | 2.6 | 56.95 | -21.2 | -123.0 | 43.7 | 38.6 | 5.15 | 8.489 | | |
| 1,400.0 | 1,392.3 | 1,391.3 | 1,386.4 | 3.3 | 2.9 | 62.63 | -25.3 | -138.7 | 45.1 | 39.3 | 5.83 | 7.741 | | |
| 1,500.0 | 1,490.1 | 1,491.0 | 1,484.6 | 3.6 | 3.2 | 68.45 | -29.7 | -155.7 | 47.1 | 40.5 | 6.58 | 7.155 | | |
| 1,600.0 | 1,587.9 | 1,590.9 | 1,582.8 | 4.0 | 3.6 | 74.03 | -34.2 | -172.8 | 49.4 | 42.1 | 7.37 | 6.712 | | |
| 1,700.0 | 1,685.7 | 1,690.8 | 1,681.1 | 4.4 | 3.9 | 79.05 | -38.7 | -189.9 | 52.2 | 44.0 | 8.16 | 6.398 | | |
| 1,800.0 | 1,783.5 | 1,790.6 | 1,779.4 | 4.8 | 4.2 | 83.54 | -43.1 | -206.9 | 55.3 | 46.4 | 8.95 | 6.182 | | |
| 1,900.0 | 1,881.3 | 1,890.5 | 1,877.7 | 5.2 | 4.6 | 87.53 | -47.6 | -224.0 | 58.8 | 49.0 | 9.74 | 6.038 | | |
| 2,000.0 | 1,979.1 | 1,990.4 | 1,976.0 | 5.6 | 4.9 | 91.06 | -52.0 | -241.1 | 62.5 | 52.0 | 10.51 | 5.946 | | |
| 2,100.0 | 2,076.9 | 2,090.2 | 2,074.3 | 6.0 | 5.3 | 94.19 | -56.5 | -258.2 | 66.4 | 55.1 | 11.26 | 5.894 | | |
| 2,200.0 | 2,174.7 | 2,190.1 | 2,172.6 | 6.4 | 5.6 | 96.97 | -61.0 | -275.2 | 70.5 | 58.4 | 12.00 | 5.869 | | |
| 2,300.0 | 2,272.4 | 2,289.9 | 2,270.9 | 6.8 | 6.0 | 99.43 | -65.4 | -292.3 | 74.7 | 61.9 | 12.73 | 5.864 | | |
| 2,400.0 | 2,370.2 | 2,389.8 | 2,369.2 | 7.2 | 6.3 | 101.63 | -69.9 | -309.4 | 79.0 | 65.6 | 13.45 | 5.875 | | |
| 2,500.0 | 2,468.0 | 2,489.7 | 2,467.4 | 7.6 | 6.7 | 103.60 | -74.4 | -326.5 | 83.5 | 69.3 | 14.16 | 5.896 | | |
| 2,600.0 | 2,565.8 | 2,589.5 | 2,565.7 | 8.0 | 7.0 | 105.37 | -78.8 | -343.5 | 88.0 | 73.2 | 14.86 | 5.924 | | |
| 2,700.0 | 2,663.6 | 2,689.4 | 2,664.0 | 8.4 | 7.4 | 106.96 | -83.3 | -360.6 | 92.6 | 77.1 | 15.55 | 5.958 | | |
| 2,800.0 | 2,761.4 | 2,789.3 | 2,762.3 | 8.8 | 7.7 | 108.40 | -87.8 | -377.7 | 97.3 | 81.1 | 16.23 | 5.995 | | |
| 2,900.0 | 2,859.2 | 2,889.1 | 2,860.6 | 9.3 | 8.1 | 109.71 | -92.2 | -394.8 | 102.0 | 85.1 | 16.91 | 6.034 | | |
| 3,000.0 | 2,957.0 | 2,989.0 | 2,958.9 | 9.7 | 8.4 | 110.90 | -96.7 | -411.9 | 106.8 | 89.2 | 17.58 | 6.075 | | |
| 3,100.0 | 3,054.7 | 3,088.8 | 3,057.2 | 10.1 | 8.8 | 111.98 | -101.1 | -428.9 | 111.7 | 93.4 | 18.25 | 6.117 | | |
| 3,200.0 | 3,152.5 | 3,188.7 | 3,155.5 | 10.5 | 9.1 | 112.98 | -105.6 | -446.0 | 116.5 | 97.6 | 18.92 | 6.159 | | |
| 3,300.0 | 3,250.3 | 3,288.6 | 3,253.8 | 10.9 | 9.5 | 113.90 | -110.1 | -463.1 | 121.4 | 101.8 | 19.58 | 6.201 | | |
| 3,400.0 | 3,348.1 | 3,388.4 | 3,352.1 | 11.3 | 9.9 | 114.75 | -114.5 | -480.2 | 126.3 | 106.1 | 20.24 | 6.242 | | |
| 3,500.0 | 3,445.9 | 3,488.3 | 3,450.3 | 11.7 | 10.2 | 115.53 | -119.0 | -497.2 | 131.3 | 110.4 | 20.90 | 6.283 | | |
| 3,600.0 | 3,543.7 | 3,588.1 | 3,548.6 | 12.1 | 10.6 | 116.25 | -123.5 | -514.3 | 136.3 | 114.7 | 21.55 | 6.323 | | |
| 3,700.0 | 3,641.5 | 3,688.0 | 3,646.9 | 12.5 | 10.9 | 116.93 | -127.9 | -531.4 | 141.2 | 119.0 | 22.20 | 6.362 | | |
| 3,800.0 | 3,739.3 | 3,787.9 | 3,745.2 | 12.9 | 11.3 | 117.56 | -132.4 | -548.5 | 146.3 | 123.4 | 22.85 | 6.400 | | |
| 3,900.0 | 3,837.0 | 3,887.7 | 3,843.5 | 13.3 | 11.6 | 118.14 | -136.9 | -565.5 | 151.3 | 127.8 | 23.50 | 6.437 | | |
| 4,000.0 | 3,934.8 | 3,987.6 | 3,941.8 | 13.7 | 12.0 | 118.69 | -141.3 | -582.6 | 156.3 | 132.2 | 24.15 | 6.473 | | |
| 4,100.0 | 4,032.6 | 4,087.5 | 4,040.1 | 14.1 | 12.3 | 119.21 | -145.8 | -599.7 | 161.4 | 136.6 | 24.80 | 6.508 | | |
| 4,200.0 | 4,130.4 | 4,187.3 | 4,138.4 | 14.6 | 12.7 | 119.69 | -150.2 | -616.8 | 166.4 | 141.0 | 25.44 | 6.542 | | |
| 4,300.0 | 4,228.2 | 4,287.2 | 4,236.7 | 15.0 | 13.1 | 120.15 | -154.7 | -633.8 | 171.5 | 145.4 | 26.09 | 6.575 | | |
| 4,400.0 | 4,326.0 | 4,387.0 | 4,335.0 | 15.4 | 13.4 | 120.57 | -159.2 | -650.9 | 176.6 | 149.9 | 26.73 | 6.607 | | |
| 4,500.0 | 4,423.8 | 4,486.9 | 4,433.2 | 15.8 | 13.8 | 120.98 | -163.6 | -668.0 | 181.7 | 154.3 | 27.37 | 6.638 | | |
| 4,600.0 | 4,521.6 | 4,586.8 | 4,531.5 | 16.2 | 14.1 | 121.36 | -168.1 | -685.1 | 186.8 | 158.8 | 28.01 | 6.669 | | |
| 4,700.0 | 4,619.3 | 4,686.6 | 4,629.8 | 16.6 | 14.5 | 121.72 | -172.6 | -702.1 | 191.9 | 163.3 | 28.66 | 6.698 | | |
| 4,800.0 | 4,717.1 | 4,786.5 | 4,728.1 | 17.0 | 14.8 | 122.07 | -177.0 | -719.2 | 197.1 | 167.8 | 29.30 | 6.726 | | |
| 4,900.0 | 4,814.9 | 4,886.4 | 4,826.4 | 17.4 | 15.2 | 122.39 | -181.5 | -736.3 | 202.2 | 172.2 | 29.94 | 6.754 | | |
| 5,000.0 | 4,912.7 | 4,986.2 | 4,924.7 | 17.8 | 15.6 | 122.70 | -186.0 | -753.4 | 207.3 | 176.7 | 30.58 | 6.780 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3C-32H-K268 - 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 | 5,010.5 | 5,086.1 | 5,023.0 | 18.2 | 15.9 | 123.00 | -190.4 | -770.4 | 212.5 | 181.2 | 31.22 | 6.806 | | |
| 5,200.0 | 5,108.3 | 5,185.9 | 5,121.3 | 18.6 | 16.3 | 123.28 | -194.9 | -787.5 | 217.6 | 185.7 | 31.85 | 6.831 | | |
| 5,300.0 | 5,206.1 | 5,285.8 | 5,219.6 | 19.1 | 16.6 | 123.55 | -199.4 | -804.6 | 222.8 | 190.3 | 32.49 | 6.856 | | |
| 5,400.0 | 5,303.9 | 5,385.7 | 5,317.9 | 19.5 | 17.0 | 123.80 | -203.8 | -821.7 | 227.9 | 194.8 | 33.13 | 6.879 | | |
| 5,500.0 | 5,401.7 | 5,485.5 | 5,416.1 | 19.9 | 17.3 | 124.05 | -208.3 | -838.8 | 233.1 | 199.3 | 33.77 | 6.902 | | |
| 5,600.0 | 5,499.4 | 5,585.4 | 5,514.4 | 20.3 | 17.7 | 124.28 | -212.7 | -855.8 | 238.2 | 203.8 | 34.40 | 6.924 | | |
| 5,700.0 | 5,597.2 | 5,685.3 | 5,612.7 | 20.7 | 18.0 | 124.50 | -217.2 | -872.9 | 243.4 | 208.4 | 35.04 | 6.946 | | |
| 5,800.0 | 5,695.0 | 5,785.1 | 5,711.0 | 21.1 | 18.4 | 124.72 | -221.7 | -890.0 | 248.6 | 212.9 | 35.68 | 6.967 | | |
| 5,900.0 | 5,792.8 | 5,885.0 | 5,809.3 | 21.5 | 18.8 | 124.92 | -226.1 | -907.1 | 253.7 | 217.4 | 36.32 | 6.987 | | |
| 6,000.0 | 5,890.6 | 5,984.8 | 5,907.6 | 21.9 | 19.1 | 125.12 | -230.6 | -924.1 | 258.9 | 222.0 | 36.95 | 7.007 | | |
| 6,100.0 | 5,988.4 | 6,084.7 | 6,005.9 | 22.3 | 19.5 | 125.31 | -235.1 | -941.2 | 264.1 | 226.5 | 37.59 | 7.026 | | |
| 6,200.0 | 6,086.2 | 6,184.6 | 6,104.2 | 22.7 | 19.8 | 125.49 | -239.5 | -958.3 | 269.3 | 231.1 | 38.22 | 7.045 | | |
| 6,300.0 | 6,184.0 | 6,284.4 | 6,202.5 | 23.2 | 20.2 | 125.67 | -244.0 | -975.4 | 274.5 | 235.6 | 38.86 | 7.063 | | |
| 6,400.0 | 6,281.7 | 6,384.3 | 6,300.8 | 23.6 | 20.5 | 125.84 | -248.5 | -992.4 | 279.7 | 240.2 | 39.49 | 7.081 | | |
| 6,500.0 | 6,379.5 | 6,484.1 | 6,399.0 | 24.0 | 20.9 | 126.00 | -252.9 | -1,009.5 | 284.8 | 244.7 | 40.13 | 7.098 | | |
| 6,600.0 | 6,477.3 | 6,584.0 | 6,497.3 | 24.4 | 21.3 | 126.16 | -257.4 | -1,026.6 | 290.0 | 249.3 | 40.76 | 7.115 | | |
| 6,700.0 | 6,575.1 | 6,683.9 | 6,595.6 | 24.8 | 21.6 | 126.31 | -261.8 | -1,043.7 | 295.2 | 253.8 | 41.40 | 7.131 | | |
| 6,800.0 | 6,672.9 | 6,783.7 | 6,693.9 | 25.2 | 22.0 | 126.46 | -266.3 | -1,060.7 | 300.4 | 258.4 | 42.03 | 7.147 | | |
| 6,900.0 | 6,770.7 | 6,883.6 | 6,792.2 | 25.6 | 22.3 | 122.78 | -270.8 | -1,077.8 | 305.6 | 262.9 | 42.68 | 7.159 | | |
| 7,000.0 | 6,868.8 | 7,035.3 | 6,940.5 | 25.9 | 22.9 | 75.05 | -286.4 | -1,103.9 | 296.4 | 253.8 | 42.58 | 6.960 | | |
| 7,100.0 | 6,965.3 | 7,195.7 | 7,087.6 | 26.1 | 23.7 | 54.13 | -342.9 | -1,131.2 | 245.5 | 206.3 | 39.18 | 6.265 | | |
| 7,200.0 | 7,057.2 | 7,286.7 | 7,162.2 | 26.2 | 24.3 | 62.83 | -392.8 | -1,145.8 | 167.9 | 138.1 | 29.86 | 5.623 | | |
| 7,300.0 | 7,141.7 | 7,328.6 | 7,193.7 | 26.2 | 24.6 | 94.96 | -419.6 | -1,152.1 | 85.4 | 58.8 | 26.63 | 3.207 | | |
| 7,364.7 | 7,191.3 | 7,339.1 | 7,201.3 | 26.1 | 24.6 | 106.53 | -426.7 | -1,153.7 | 56.6 | 26.8 | 29.82 | 1.898 ES, SF | | |
| 7,400.0 | 7,216.4 | 7,341.0 | 7,202.7 | 26.1 | 24.6 | 106.41 | -428.0 | -1,154.0 | 66.7 | 36.8 | 29.85 | 2.234 | | |
| 7,500.0 | 7,278.8 | 7,335.8 | 7,198.9 | 26.0 | 24.6 | 84.86 | -424.4 | -1,153.2 | 146.4 | 120.2 | 26.20 | 5.587 | | |
| 7,600.0 | 7,327.2 | 7,319.5 | 7,187.1 | 26.0 | 24.5 | 52.67 | -413.6 | -1,150.8 | 239.4 | 217.0 | 22.40 | 10.689 | | |
| 7,700.0 | 7,360.0 | 7,300.0 | 7,172.4 | 26.0 | 24.4 | 34.84 | -401.0 | -1,147.8 | 331.2 | 312.1 | 19.15 | 17.298 | | |
| 7,800.0 | 7,376.2 | 7,267.8 | 7,147.4 | 26.0 | 24.2 | 25.69 | -381.4 | -1,142.8 | 418.6 | 401.5 | 17.11 | 24.459 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3D-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|------------------------------|----------------------|-----------|-----------------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | Total Uncertainty Axis | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | | | | Between Ellipses (ft) | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.00 | 0.0 | -50.4 | 50.4 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.2 | 0.2 | -90.00 | 0.0 | -50.4 | 50.4 | 50.1 | 0.30 | 166.659 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -90.00 | 0.0 | -50.4 | 50.4 | 49.7 | 0.65 | 77.356 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 26.95 | 0.0 | -50.4 | 50.2 | 49.2 | 1.00 | 50.161 | | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.7 | 0.7 | 27.89 | 0.0 | -50.4 | 48.6 | 47.3 | 1.35 | 36.028 | | |
| 500.0 | 499.9 | 498.9 | 498.9 | 0.9 | 0.8 | 29.96 | 0.0 | -50.4 | 45.6 | 43.9 | 1.70 | 26.802 | | |
| 600.0 | 599.8 | 598.1 | 598.1 | 1.1 | 1.0 | 33.64 | 0.1 | -51.2 | 42.0 | 39.9 | 2.05 | 20.438 | | |
| 700.0 | 699.5 | 697.2 | 697.2 | 1.3 | 1.2 | 39.48 | 0.5 | -53.7 | 38.9 | 36.5 | 2.41 | 16.117 | | |
| 800.0 | 799.2 | 796.4 | 796.3 | 1.5 | 1.4 | 47.69 | 1.2 | -57.9 | 36.9 | 34.1 | 2.80 | 13.183 | | |
| 880.1 | 878.8 | 875.8 | 875.6 | 1.7 | 1.5 | 55.79 | 2.0 | -62.5 | 36.3 | 33.2 | 3.13 | 11.601 CC | | |
| 900.0 | 898.6 | 895.6 | 895.3 | 1.7 | 1.6 | 57.97 | 2.2 | -63.8 | 36.3 | 33.1 | 3.21 | 11.304 ES | | |
| 1,000.0 | 997.9 | 994.8 | 994.1 | 2.0 | 1.8 | 69.24 | 3.5 | -71.4 | 37.8 | 34.1 | 3.68 | 10.281 | | |
| 1,100.0 | 1,096.9 | 1,093.9 | 1,092.8 | 2.3 | 2.0 | 80.01 | 5.0 | -80.7 | 41.6 | 37.4 | 4.19 | 9.927 SF | | |
| 1,200.0 | 1,195.7 | 1,193.2 | 1,191.6 | 2.6 | 2.2 | 89.46 | 6.7 | -91.4 | 47.4 | 42.7 | 4.73 | 10.013 | | |
| 1,300.0 | 1,294.1 | 1,292.6 | 1,290.4 | 2.9 | 2.5 | 98.37 | 8.5 | -102.3 | 54.5 | 49.2 | 5.30 | 10.291 | | |
| 1,400.0 | 1,392.3 | 1,391.9 | 1,389.0 | 3.3 | 2.7 | 106.58 | 10.3 | -113.1 | 63.1 | 57.3 | 5.86 | 10.771 | | |
| 1,500.0 | 1,490.1 | 1,491.0 | 1,487.5 | 3.6 | 2.9 | 113.88 | 12.1 | -123.9 | 73.4 | 67.0 | 6.41 | 11.458 | | |
| 1,600.0 | 1,587.9 | 1,590.0 | 1,586.0 | 4.0 | 3.2 | 119.55 | 13.9 | -134.7 | 84.7 | 77.8 | 6.93 | 12.230 | | |
| 1,700.0 | 1,685.7 | 1,689.1 | 1,684.4 | 4.4 | 3.4 | 123.86 | 15.6 | -145.5 | 96.6 | 89.2 | 7.43 | 13.002 | | |
| 1,800.0 | 1,783.5 | 1,788.2 | 1,782.8 | 4.8 | 3.7 | 127.21 | 17.4 | -156.3 | 109.0 | 101.0 | 7.93 | 13.742 | | |
| 1,900.0 | 1,881.3 | 1,887.2 | 1,881.3 | 5.2 | 3.9 | 129.87 | 19.2 | -167.1 | 121.6 | 113.2 | 8.42 | 14.437 | | |
| 2,000.0 | 1,979.1 | 1,986.3 | 1,979.7 | 5.6 | 4.2 | 132.03 | 21.0 | -178.0 | 134.5 | 125.6 | 8.92 | 15.083 | | |
| 2,100.0 | 2,076.9 | 2,085.3 | 2,078.2 | 6.0 | 4.4 | 133.81 | 22.7 | -188.8 | 147.5 | 138.1 | 9.40 | 15.681 | | |
| 2,200.0 | 2,174.7 | 2,184.4 | 2,176.6 | 6.4 | 4.7 | 135.30 | 24.5 | -199.6 | 160.6 | 150.7 | 9.89 | 16.232 | | |
| 2,300.0 | 2,272.4 | 2,283.4 | 2,275.1 | 6.8 | 4.9 | 136.56 | 26.3 | -210.4 | 173.8 | 163.4 | 10.38 | 16.741 | | |
| 2,400.0 | 2,370.2 | 2,382.5 | 2,373.5 | 7.2 | 5.2 | 137.65 | 28.1 | -221.2 | 187.1 | 176.2 | 10.87 | 17.211 | | |
| 2,500.0 | 2,468.0 | 2,481.5 | 2,472.0 | 7.6 | 5.4 | 138.59 | 29.8 | -232.0 | 200.4 | 189.1 | 11.36 | 17.646 | | |
| 2,600.0 | 2,565.8 | 2,580.6 | 2,570.4 | 8.0 | 5.7 | 139.42 | 31.6 | -242.8 | 213.8 | 202.0 | 11.85 | 18.049 | | |
| 2,700.0 | 2,663.6 | 2,679.7 | 2,668.9 | 8.4 | 6.0 | 140.15 | 33.4 | -253.6 | 227.3 | 214.9 | 12.34 | 18.423 | | |
| 2,800.0 | 2,761.4 | 2,778.7 | 2,767.3 | 8.8 | 6.2 | 140.79 | 35.2 | -264.4 | 240.7 | 227.9 | 12.82 | 18.771 | | |
| 2,900.0 | 2,859.2 | 2,877.8 | 2,865.8 | 9.3 | 6.5 | 141.37 | 37.0 | -275.2 | 254.2 | 240.9 | 13.31 | 19.095 | | |
| 3,000.0 | 2,957.0 | 2,976.8 | 2,964.2 | 9.7 | 6.7 | 141.89 | 38.7 | -286.1 | 267.7 | 253.9 | 13.80 | 19.397 | | |
| 3,100.0 | 3,054.7 | 3,075.9 | 3,062.7 | 10.1 | 7.0 | 142.36 | 40.5 | -296.9 | 281.3 | 267.0 | 14.29 | 19.680 | | |
| 3,200.0 | 3,152.5 | 3,174.9 | 3,161.1 | 10.5 | 7.2 | 142.79 | 42.3 | -307.7 | 294.8 | 280.0 | 14.78 | 19.946 | | |
| 3,300.0 | 3,250.3 | 3,274.0 | 3,259.6 | 10.9 | 7.5 | 143.18 | 44.1 | -318.5 | 308.4 | 293.1 | 15.27 | 20.195 | | |
| 3,400.0 | 3,348.1 | 3,373.0 | 3,358.0 | 11.3 | 7.7 | 143.53 | 45.8 | -329.3 | 321.9 | 306.2 | 15.76 | 20.429 | | |
| 3,500.0 | 3,445.9 | 3,472.1 | 3,456.5 | 11.7 | 8.0 | 143.86 | 47.6 | -340.1 | 335.5 | 319.3 | 16.25 | 20.649 | | |
| 3,600.0 | 3,543.7 | 3,571.2 | 3,554.9 | 12.1 | 8.3 | 144.16 | 49.4 | -350.9 | 349.1 | 332.4 | 16.74 | 20.858 | | |
| 3,700.0 | 3,641.5 | 3,670.2 | 3,653.4 | 12.5 | 8.5 | 144.44 | 51.2 | -361.7 | 362.7 | 345.5 | 17.23 | 21.054 | | |
| 3,800.0 | 3,739.3 | 3,769.3 | 3,751.8 | 12.9 | 8.8 | 144.70 | 52.9 | -372.5 | 376.3 | 358.6 | 17.72 | 21.240 | | |
| 3,900.0 | 3,837.0 | 3,868.3 | 3,850.2 | 13.3 | 9.0 | 144.94 | 54.7 | -383.4 | 389.9 | 371.7 | 18.21 | 21.417 | | |
| 4,000.0 | 3,934.8 | 3,967.4 | 3,948.7 | 13.7 | 9.3 | 145.17 | 56.5 | -394.2 | 403.6 | 384.9 | 18.70 | 21.584 | | |
| 4,100.0 | 4,032.6 | 4,066.4 | 4,047.1 | 14.1 | 9.5 | 145.38 | 58.3 | -405.0 | 417.2 | 398.0 | 19.19 | 21.743 | | |
| 4,200.0 | 4,130.4 | 4,165.5 | 4,145.6 | 14.6 | 9.8 | 145.57 | 60.0 | -415.8 | 430.8 | 411.2 | 19.68 | 21.895 | | |
| 4,300.0 | 4,228.2 | 4,264.5 | 4,244.0 | 15.0 | 10.1 | 145.76 | 61.8 | -426.6 | 444.5 | 424.3 | 20.17 | 22.039 | | |
| 4,400.0 | 4,326.0 | 4,363.6 | 4,342.5 | 15.4 | 10.3 | 145.93 | 63.6 | -437.4 | 458.1 | 437.5 | 20.66 | 22.176 | | |
| 4,500.0 | 4,423.8 | 4,462.6 | 4,440.9 | 15.8 | 10.6 | 146.09 | 65.4 | -448.2 | 471.8 | 450.6 | 21.15 | 22.307 | | |
| 4,600.0 | 4,521.6 | 4,561.7 | 4,539.4 | 16.2 | 10.8 | 146.25 | 67.2 | -459.0 | 485.4 | 463.8 | 21.64 | 22.433 | | |
| 4,700.0 | 4,619.3 | 4,660.8 | 4,637.8 | 16.6 | 11.1 | 146.39 | 68.9 | -469.8 | 499.1 | 477.0 | 22.13 | 22.553 | | |
| 4,800.0 | 4,717.1 | 4,759.3 | 4,735.8 | 17.0 | 11.4 | 146.52 | 70.7 | -480.6 | 512.7 | 490.0 | 22.62 | 22.679 | | |
| 4,900.0 | 4,814.9 | 4,858.1 | 4,833.4 | 17.4 | 11.7 | 146.64 | 72.5 | -491.4 | 526.3 | 503.6 | 23.11 | 22.805 | | |
| 5,000.0 | 4,912.7 | 4,956.9 | 4,937.0 | 17.8 | 12.0 | 146.76 | 74.3 | -502.2 | 539.9 | 517.2 | 23.60 | 22.931 | | |
| 5,100.0 | 5,010.5 | 5,055.7 | 5,035.6 | 18.2 | 12.3 | 146.87 | 76.1 | -513.0 | 553.5 | 530.8 | 24.09 | 23.057 | | |
| 5,200.0 | 5,108.3 | 5,154.5 | 5,138.2 | 18.6 | 12.6 | 146.98 | 77.9 | -523.8 | 567.1 | 544.4 | 24.58 | 23.183 | | |
| 5,300.0 | 5,206.1 | 5,253.3 | 5,233.8 | 19.0 | 12.9 | 147.09 | 79.7 | -534.6 | 580.7 | 558.0 | 25.07 | 23.309 | | |
| 5,400.0 | 5,303.9 | 5,351.5 | 5,336.0 | 19.4 | 13.2 | 147.20 | 81.5 | -545.4 | 594.3 | 571.6 | 25.56 | 23.435 | | |
| 5,500.0 | 5,401.7 | 5,449.9 | 5,439.4 | 19.8 | 13.5 | 147.31 | 83.3 | -556.2 | 607.9 | 585.2 | 26.05 | 23.561 | | |
| 5,600.0 | 5,499.5 | 5,548.1 | 5,543.6 | 20.2 | 13.8 | 147.42 | 85.1 | -567.0 | 621.5 | 598.8 | 26.54 | 23.687 | | |
| 5,700.0 | 5,597.3 | 5,646.3 | 5,647.8 | 20.6 | 14.1 | 147.53 | 86.9 | -577.8 | 635.1 | 612.4 | 27.03 | 23.813 | | |
| 5,800.0 | 5,695.1 | 5,745.1 | 5,752.3 | 21.0 | 14.4 | 147.64 | 88.7 | -588.6 | 648.7 | 626.0 | 27.52 | 23.939 | | |
| 5,900.0 | 5,792.9 | 5,843.9 | 5,856.1 | 21.4 | 14.7 | 147.75 | 90.5 | -599.4 | 662.3 | 639.6 | 28.01 | 24.065 | | |
| 6,000.0 | 5,890.7 | 5,942.9 | 5,960.1 | 21.8 | 15.0 | 147.86 | 92.3 | -610.2 | 675.9 | 653.2 | 28.50 | 24.191 | | |
| 6,100.0 | 5,988.5 | 6,041.9 | 6,064.3 | 22.2 | 15.3 | 147.97 | 94.1 | -621.0 | 689.5 | 666.8 | 28.99 | 24.317 | | |
| 6,200.0 | 6,086.3 | 6,140.7 | 6,168.7 | 22.6 | 15.6 | 148.08 | 95.9 | -631.8 | 703.1 | 680.4 | 29.48 | 24.443 | | |
| 6,300.0 | 6,184.1 | 6,239.5 | 6,272.7 | 23.0 | 15.9 | 148.19 | 97.7 | -642.6 | 716.7 | 694.0 | 29.97 | 24.569 | | |
| 6,400.0 | 6,281.9 | 6,338.3 | 6,376.7 | 23.4 | 16.2 | 148.30 | 99.5 | -653.4 | 730.3 | 707.6 | 30.46 | 24.695 | | |
| 6,500.0 | 6,379.7 | 6,437.1 | 6,480.1 | 23.8 | 16.5 | 148.41 | 101.3 | -664.2 | 743.9 | 721.2 | 30.95 | 24.821 | | |
| 6,600.0 | 6,477.5 | 6,535.9 | 6,583.5 | 24.2 | 16.8 | 148.52 | 103.1 | -675.0 | 757.5 | 734.8 | 31.44 | 24.947 | | |
| 6,700.0 | 6,575.3 | 6,634.7 | 6,687.1 | 24.6 | 17.1 | 148.63 | 104.9 | -685.8 | 771.1 | 748.4 | 31.93 | 25.073 | | |
| 6,800.0 | 6,673.1 | 6,733.1 | 6,790.3 | 25.0 | 17.4 | 148.74 | 106.7 | -696.6 | 784.7 | 762.0 | 32.42 | 25.199 | | |
| 6,900.0 | 6,770.9 | 6,831.9 | 6,889.1 | 25.4 | 17.7 | 148.85 | 108.5 | -707.4 | 798.3 | 775.6 | 32.91 | 25.325 | | |
| 7,000.0 | 6,868.7 | 6,930.7 | 6,992.7 | 25.8 | 18.0 | 148.96 | 110.3 | -718.2 | 811.9 | 789.2 | 33.40 | 25.451 | | |
| 7,100.0 | 6,966.5 | 7,029.1 | 7,095.9 | 26.2 | 18.3 | 149.07 | 112.1 | -729.0 | 825.5 | 802.8 | 33.89 | 25.577 | | |
| 7,200.0 | 7,064.3 | 7,127.5 | 7,199.1 | 26.6 | 18.6 | 149.18 | 113.9 | -739.8 | 839.1 | 816.4 | 34.38 | 25.703 | | |
| 7,300.0 | 7,162.1 | 7,226.3 | 7,297.7 | 27.0 | 18.9 | 149.29 | 115.7 | -750.6 | 852.7 | 830.0 | 34.87 | 25.829 | | |
| 7,400.0 | 7,259.9 | 7,320.1 | 7,396.3 | 27.4 | 19.2 | 149.40 | 117.5 | -761.4 | 866.3 | 843.6 | 35.36 | 25.955 | | |
| 7,500.0 | 7,357.7 | 7 | | | | | | | | | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | S32-T2N-R68W (File) - File 3D-32H-K268 - 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 | | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | | | |
| | | | | | | | +N/-S (ft) | +E/-W (ft) | | | | | | | | | |
| 7,801.8 | 7,376.4 | 7,500.8 | 7,422.4 | 26.0 | 18.3 | 95.71 | -40.3 | -772.8 | 474.0 | 447.3 | 26.76 | 17.711 | | | | | |
| 7,900.0 | 7,378.0 | 7,443.6 | 7,378.7 | 26.1 | 18.1 | 90.21 | -3.5 | -768.7 | 479.7 | 452.9 | 26.74 | 17.939 | | | | | |
| 8,000.0 | 7,378.0 | 7,400.0 | 7,343.2 | 26.3 | 18.0 | 85.96 | 21.4 | -765.2 | 498.9 | 472.0 | 26.90 | 18.545 | | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3E-32H-K268 - 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 | | 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 | -95.73 | -3.7 | -36.4 | 36.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -95.73 | -3.7 | -36.4 | 36.6 | 0.30 | 120.365 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -95.73 | -3.7 | -36.4 | 36.6 | 0.65 | 55.999 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 21.23 | -3.7 | -36.4 | 36.3 | 1.00 | 36.284 | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | 22.28 | -3.7 | -36.4 | 34.7 | 1.35 | 25.707 | | | |
| 500.0 | 499.9 | 499.9 | 499.9 | 0.9 | 0.8 | 24.70 | -3.7 | -36.4 | 31.5 | 1.70 | 18.536 | | | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.1 | 1.0 | 29.39 | -3.7 | -36.4 | 26.9 | 2.05 | 13.079 | | | |
| 700.0 | 699.5 | 699.2 | 699.2 | 1.3 | 1.2 | 39.16 | -3.3 | -37.2 | 21.9 | 2.42 | 9.061 | | | |
| 800.0 | 799.2 | 798.6 | 798.5 | 1.5 | 1.4 | 57.77 | -2.3 | -39.5 | 18.7 | 2.82 | 6.627 | | | |
| 839.1 | 838.1 | 837.4 | 837.3 | 1.6 | 1.4 | 67.37 | -1.7 | -40.9 | 18.3 | 2.99 | 6.131 CC, ES | | | |
| 900.0 | 898.6 | 898.0 | 897.8 | 1.7 | 1.6 | 83.10 | -0.6 | -43.5 | 19.2 | 3.26 | 5.883 SF | | | |
| 1,000.0 | 997.9 | 997.5 | 997.2 | 2.0 | 1.7 | 106.62 | 1.2 | -47.8 | 23.7 | 3.69 | 6.425 | | | |
| 1,100.0 | 1,096.9 | 1,096.8 | 1,096.5 | 2.3 | 1.9 | 123.70 | 3.0 | -52.2 | 31.7 | 4.07 | 7.795 | | | |
| 1,200.0 | 1,195.7 | 1,196.0 | 1,195.5 | 2.6 | 2.1 | 135.07 | 4.9 | -56.5 | 42.6 | 4.43 | 9.622 | | | |
| 1,300.0 | 1,294.1 | 1,294.9 | 1,294.3 | 2.9 | 2.3 | 142.74 | 6.7 | -60.8 | 55.8 | 4.78 | 11.682 | | | |
| 1,400.0 | 1,392.3 | 1,393.5 | 1,392.8 | 3.3 | 2.5 | 148.16 | 8.5 | -65.1 | 71.2 | 5.13 | 13.868 | | | |
| 1,500.0 | 1,490.1 | 1,491.9 | 1,491.1 | 3.6 | 2.7 | 152.14 | 10.4 | -69.4 | 88.3 | 5.48 | 16.099 | | | |
| 1,600.0 | 1,587.9 | 1,590.2 | 1,589.3 | 4.0 | 2.9 | 154.93 | 12.2 | -73.7 | 105.9 | 5.84 | 18.132 | | | |
| 1,700.0 | 1,685.7 | 1,688.5 | 1,687.5 | 4.4 | 3.0 | 156.91 | 14.0 | -78.1 | 123.8 | 6.21 | 19.945 | | | |
| 1,800.0 | 1,783.5 | 1,786.8 | 1,785.7 | 4.8 | 3.2 | 158.40 | 15.9 | -82.4 | 141.7 | 6.57 | 21.567 | | | |
| 1,900.0 | 1,881.3 | 1,885.1 | 1,883.9 | 5.2 | 3.4 | 159.55 | 17.7 | -86.7 | 159.7 | 6.94 | 23.022 | | | |
| 2,000.0 | 1,979.1 | 1,983.5 | 1,982.1 | 5.6 | 3.6 | 160.47 | 19.5 | -91.0 | 177.8 | 7.31 | 24.334 | | | |
| 2,100.0 | 2,076.9 | 2,081.8 | 2,080.3 | 6.0 | 3.8 | 161.22 | 21.3 | -95.3 | 195.9 | 7.68 | 25.522 | | | |
| 2,200.0 | 2,174.7 | 2,180.1 | 2,178.5 | 6.4 | 4.0 | 161.84 | 23.2 | -99.6 | 214.0 | 8.05 | 26.601 | | | |
| 2,300.0 | 2,272.4 | 2,278.4 | 2,276.7 | 6.8 | 4.2 | 162.36 | 25.0 | -103.9 | 232.2 | 8.42 | 27.586 | | | |
| 2,400.0 | 2,370.2 | 2,376.7 | 2,374.9 | 7.2 | 4.4 | 162.81 | 26.8 | -108.2 | 250.3 | 8.79 | 28.488 | | | |
| 2,500.0 | 2,468.0 | 2,475.1 | 2,473.1 | 7.6 | 4.5 | 163.20 | 28.6 | -112.5 | 268.5 | 9.16 | 29.318 | | | |
| 2,600.0 | 2,565.8 | 2,573.4 | 2,571.4 | 8.0 | 4.7 | 163.54 | 30.5 | -116.8 | 286.7 | 9.53 | 30.083 | | | |
| 2,700.0 | 2,663.6 | 2,671.7 | 2,669.6 | 8.4 | 4.9 | 163.84 | 32.3 | -121.1 | 304.9 | 9.90 | 30.791 | | | |
| 2,800.0 | 2,761.4 | 2,770.0 | 2,767.8 | 8.8 | 5.1 | 164.10 | 34.1 | -125.4 | 323.1 | 10.27 | 31.447 | | | |
| 2,900.0 | 2,859.2 | 2,868.3 | 2,866.0 | 9.3 | 5.3 | 164.34 | 35.9 | -129.7 | 341.3 | 10.65 | 32.058 | | | |
| 3,000.0 | 2,957.0 | 2,966.7 | 2,964.2 | 9.7 | 5.5 | 164.55 | 37.8 | -134.0 | 359.5 | 11.02 | 32.627 | | | |
| 3,100.0 | 3,054.7 | 3,065.0 | 3,062.4 | 10.1 | 5.7 | 164.74 | 39.6 | -138.3 | 377.8 | 11.39 | 33.159 | | | |
| 3,200.0 | 3,152.5 | 3,163.3 | 3,160.6 | 10.5 | 5.9 | 164.92 | 41.4 | -142.6 | 396.0 | 11.77 | 33.658 | | | |
| 3,300.0 | 3,250.3 | 3,261.6 | 3,258.8 | 10.9 | 6.1 | 165.07 | 43.2 | -146.9 | 414.2 | 12.14 | 34.125 | | | |
| 3,400.0 | 3,348.1 | 3,359.9 | 3,357.0 | 11.3 | 6.2 | 165.22 | 45.1 | -151.2 | 432.4 | 12.51 | 34.565 | | | |
| 3,500.0 | 3,445.9 | 3,458.3 | 3,455.2 | 11.7 | 6.4 | 165.35 | 46.9 | -155.5 | 450.7 | 12.88 | 34.979 | | | |
| 3,600.0 | 3,543.7 | 3,556.6 | 3,553.4 | 12.1 | 6.6 | 165.48 | 48.7 | -159.8 | 468.9 | 13.26 | 35.370 | | | |
| 3,700.0 | 3,641.5 | 3,654.9 | 3,651.6 | 12.5 | 6.8 | 165.59 | 50.5 | -164.1 | 487.1 | 13.63 | 35.740 | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3F-32H-K268 - 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 | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.02 | 0.0 | -30.8 | 30.8 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -90.02 | 0.0 | -30.8 | 30.8 | 30.5 | 0.30 | 101.338 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -90.02 | 0.0 | -30.8 | 30.8 | 30.1 | 0.65 | 47.147 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 27.01 | 0.0 | -30.8 | 30.6 | 29.6 | 1.00 | 30.525 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | 28.58 | 0.0 | -30.8 | 29.0 | 27.7 | 1.35 | 21.490 | | |
| 500.0 | 499.9 | 499.9 | 499.9 | 0.9 | 0.8 | 32.27 | 0.0 | -30.8 | 26.0 | 24.3 | 1.70 | 15.291 | | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.1 | 1.0 | 39.67 | 0.0 | -30.8 | 21.8 | 19.7 | 2.06 | 10.580 | | |
| 700.0 | 699.5 | 699.5 | 699.5 | 1.3 | 1.2 | 54.87 | 0.0 | -30.8 | 17.0 | 14.6 | 2.43 | 6.982 | | |
| 800.0 | 799.2 | 799.2 | 799.2 | 1.5 | 1.4 | 85.55 | 0.0 | -30.8 | 13.9 | 11.1 | 2.85 | 4.891 | | |
| 811.2 | 810.3 | 810.3 | 810.3 | 1.5 | 1.4 | 90.00 | 0.0 | -30.8 | 13.9 | 11.0 | 2.89 | 4.798 CC, ES, SF | | |
| 900.0 | 898.6 | 898.6 | 898.6 | 1.7 | 1.5 | 123.83 | 0.0 | -30.8 | 16.8 | 13.5 | 3.21 | 5.221 | | |
| 1,000.0 | 997.9 | 997.9 | 997.9 | 2.0 | 1.7 | 146.98 | 0.0 | -30.8 | 25.6 | 22.1 | 3.51 | 7.302 | | |
| 1,100.0 | 1,096.9 | 1,096.9 | 1,096.9 | 2.3 | 1.9 | 158.40 | 0.0 | -30.8 | 38.1 | 34.3 | 3.83 | 9.956 | | |
| 1,200.0 | 1,195.7 | 1,195.7 | 1,195.7 | 2.6 | 2.1 | 164.60 | 0.0 | -30.8 | 53.0 | 48.8 | 4.15 | 12.758 | | |
| 1,300.0 | 1,294.1 | 1,294.1 | 1,294.1 | 2.9 | 2.2 | 168.35 | 0.0 | -30.8 | 69.9 | 65.4 | 4.48 | 15.591 | | |
| 1,400.0 | 1,392.3 | 1,392.3 | 1,392.3 | 3.3 | 2.4 | 170.81 | 0.0 | -30.8 | 88.7 | 83.8 | 4.81 | 18.420 | | |
| 1,500.0 | 1,490.1 | 1,490.1 | 1,490.1 | 3.6 | 2.6 | 172.52 | 0.0 | -30.8 | 109.1 | 103.9 | 5.15 | 21.191 | | |
| 1,600.0 | 1,587.9 | 1,587.9 | 1,587.9 | 4.0 | 2.7 | 173.72 | 0.0 | -30.8 | 129.9 | 124.4 | 5.49 | 23.659 | | |
| 1,700.0 | 1,685.7 | 1,685.7 | 1,685.7 | 4.4 | 2.9 | 174.59 | 0.0 | -30.8 | 150.7 | 144.8 | 5.83 | 25.842 | | |
| 1,800.0 | 1,783.5 | 1,783.5 | 1,783.5 | 4.8 | 3.1 | 175.25 | 0.0 | -30.8 | 171.5 | 165.3 | 6.17 | 27.784 | | |
| 1,900.0 | 1,881.3 | 1,881.3 | 1,881.3 | 5.2 | 3.3 | 175.77 | 0.0 | -30.8 | 192.4 | 185.9 | 6.52 | 29.524 | | |
| 2,000.0 | 1,979.1 | 1,979.1 | 1,979.1 | 5.6 | 3.4 | 176.18 | 0.0 | -30.8 | 213.2 | 206.4 | 6.86 | 31.091 | | |
| 2,100.0 | 2,076.9 | 2,076.9 | 2,076.9 | 6.0 | 3.6 | 176.52 | 0.0 | -30.8 | 234.1 | 226.9 | 7.20 | 32.509 | | |
| 2,200.0 | 2,174.7 | 2,174.7 | 2,174.7 | 6.4 | 3.8 | 176.81 | 0.0 | -30.8 | 255.0 | 247.5 | 7.54 | 33.799 | | |
| 2,300.0 | 2,272.4 | 2,272.4 | 2,272.4 | 6.8 | 3.9 | 177.05 | 0.0 | -30.8 | 275.9 | 268.0 | 7.89 | 34.976 | | |
| 2,400.0 | 2,370.2 | 2,370.2 | 2,370.2 | 7.2 | 4.1 | 177.26 | 0.0 | -30.8 | 296.8 | 288.6 | 8.23 | 36.056 | | |
| 2,500.0 | 2,468.0 | 2,468.0 | 2,468.0 | 7.6 | 4.3 | 177.44 | 0.0 | -30.8 | 317.7 | 309.1 | 8.57 | 37.049 | | |
| 2,600.0 | 2,565.8 | 2,565.8 | 2,565.8 | 8.0 | 4.5 | 177.60 | 0.0 | -30.8 | 338.6 | 329.7 | 8.92 | 37.966 | | |
| 2,700.0 | 2,663.6 | 2,663.6 | 2,663.6 | 8.4 | 4.6 | 177.74 | 0.0 | -30.8 | 359.5 | 350.2 | 9.26 | 38.815 | | |
| 2,800.0 | 2,761.4 | 2,761.4 | 2,761.4 | 8.8 | 4.8 | 177.86 | 0.0 | -30.8 | 380.4 | 370.8 | 9.60 | 39.604 | | |
| 2,900.0 | 2,859.2 | 2,859.2 | 2,859.2 | 9.3 | 5.0 | 177.97 | 0.0 | -30.8 | 401.3 | 391.3 | 9.95 | 40.338 | | |
| 3,000.0 | 2,957.0 | 2,957.0 | 2,957.0 | 9.7 | 5.1 | 178.07 | 0.0 | -30.8 | 422.2 | 411.9 | 10.29 | 41.023 | | |
| 3,100.0 | 3,054.7 | 3,054.7 | 3,054.7 | 10.1 | 5.3 | 178.16 | 0.0 | -30.8 | 443.1 | 432.5 | 10.64 | 41.664 | | |
| 3,200.0 | 3,152.5 | 3,152.5 | 3,152.5 | 10.5 | 5.5 | 178.25 | 0.0 | -30.8 | 464.0 | 453.0 | 10.98 | 42.265 | | |
| 3,300.0 | 3,250.3 | 3,250.3 | 3,250.3 | 10.9 | 5.7 | 178.32 | 0.0 | -30.8 | 484.9 | 473.6 | 11.32 | 42.829 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3G-32H-K268 - 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 | | Highside Toolface (°) | Offset Wellbore Centre | | Distance | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -98.24 | -3.6 | -25.2 | 25.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -98.24 | -3.6 | -25.2 | 25.4 | 25.1 | 0.30 | 83.778 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -98.24 | -3.6 | -25.2 | 25.4 | 24.8 | 0.65 | 38.977 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 18.76 | -3.6 | -25.2 | 25.2 | 24.2 | 1.00 | 25.190 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | 20.13 | -3.6 | -25.2 | 23.6 | 22.2 | 1.35 | 17.463 | | |
| 500.0 | 499.9 | 499.9 | 499.9 | 0.9 | 0.8 | 23.52 | -3.6 | -25.2 | 20.3 | 18.6 | 1.70 | 11.965 | | |
| 600.0 | 599.8 | 600.0 | 600.0 | 1.1 | 1.0 | 31.64 | -3.6 | -24.3 | 14.8 | 12.8 | 2.06 | 7.213 | | |
| 700.0 | 699.5 | 699.8 | 699.7 | 1.3 | 1.2 | 64.13 | -3.5 | -21.7 | 7.5 | 5.0 | 2.44 | 3.049 | | |
| 735.5 | 734.9 | 735.0 | 735.0 | 1.3 | 1.3 | 97.81 | -3.4 | -20.4 | 6.2 | 3.6 | 2.60 | 2.389 | CC, ES, SF | |
| 800.0 | 799.2 | 799.0 | 798.8 | 1.5 | 1.4 | 151.92 | -3.3 | -17.4 | 10.6 | 7.8 | 2.77 | 3.820 | | |
| 900.0 | 898.6 | 897.8 | 897.6 | 1.7 | 1.6 | 172.86 | -3.0 | -12.6 | 24.4 | 21.3 | 3.09 | 7.889 | | |
| 1,000.0 | 997.9 | 996.4 | 996.1 | 2.0 | 1.8 | 178.51 | -2.8 | -7.9 | 40.8 | 37.4 | 3.43 | 11.889 | | |
| 1,100.0 | 1,096.9 | 1,094.7 | 1,094.3 | 2.3 | 1.9 | -179.11 | -2.6 | -3.1 | 59.1 | 55.3 | 3.77 | 15.663 | | |
| 1,200.0 | 1,195.7 | 1,192.7 | 1,192.1 | 2.6 | 2.1 | -177.90 | -2.4 | 1.6 | 79.1 | 75.0 | 4.11 | 19.244 | | |
| 1,300.0 | 1,294.1 | 1,290.3 | 1,289.6 | 2.9 | 2.3 | -177.22 | -2.1 | 6.4 | 100.9 | 96.4 | 4.45 | 22.674 | | |
| 1,400.0 | 1,392.3 | 1,387.5 | 1,386.7 | 3.3 | 2.5 | -176.82 | -1.9 | 11.1 | 124.3 | 119.6 | 4.79 | 25.986 | | |
| 1,500.0 | 1,490.1 | 1,484.3 | 1,483.4 | 3.6 | 2.7 | -176.59 | -1.7 | 15.8 | 149.4 | 144.2 | 5.12 | 29.149 | | |
| 1,600.0 | 1,587.9 | 1,581.1 | 1,580.0 | 4.0 | 2.9 | -176.43 | -1.4 | 20.4 | 174.7 | 169.2 | 5.47 | 31.938 | | |
| 1,700.0 | 1,685.7 | 1,677.8 | 1,676.6 | 4.4 | 3.0 | -176.32 | -1.2 | 25.1 | 200.0 | 194.1 | 5.81 | 34.395 | | |
| 1,800.0 | 1,783.5 | 1,774.6 | 1,773.3 | 4.8 | 3.2 | -176.23 | -1.0 | 29.8 | 225.2 | 219.1 | 6.16 | 36.577 | | |
| 1,900.0 | 1,881.3 | 1,871.3 | 1,869.9 | 5.2 | 3.4 | -176.16 | -0.8 | 34.5 | 250.5 | 244.0 | 6.50 | 38.527 | | |
| 2,000.0 | 1,979.1 | 1,968.0 | 1,966.5 | 5.6 | 3.6 | -176.10 | -0.5 | 39.2 | 275.8 | 269.0 | 6.85 | 40.281 | | |
| 2,100.0 | 2,076.9 | 2,064.8 | 2,063.2 | 6.0 | 3.8 | -176.05 | -0.3 | 43.9 | 301.1 | 293.9 | 7.19 | 41.867 | | |
| 2,200.0 | 2,174.7 | 2,161.5 | 2,159.8 | 6.4 | 4.0 | -176.01 | -0.1 | 48.5 | 326.4 | 318.9 | 7.54 | 43.307 | | |
| 2,300.0 | 2,272.4 | 2,258.3 | 2,256.4 | 6.8 | 4.2 | -175.97 | 0.1 | 53.2 | 351.7 | 343.9 | 7.88 | 44.621 | | |
| 2,400.0 | 2,370.2 | 2,355.0 | 2,353.1 | 7.2 | 4.4 | -175.94 | 0.4 | 57.9 | 377.0 | 368.8 | 8.23 | 45.825 | | |
| 2,500.0 | 2,468.0 | 2,451.8 | 2,449.7 | 7.6 | 4.5 | -175.91 | 0.6 | 62.6 | 402.3 | 393.8 | 8.57 | 46.931 | | |
| 2,600.0 | 2,565.8 | 2,548.5 | 2,546.3 | 8.0 | 4.7 | -175.89 | 0.8 | 67.3 | 427.6 | 418.7 | 8.92 | 47.952 | | |
| 2,700.0 | 2,663.6 | 2,645.3 | 2,643.0 | 8.4 | 4.9 | -175.87 | 1.0 | 72.0 | 452.9 | 443.7 | 9.26 | 48.897 | | |
| 2,800.0 | 2,761.4 | 2,742.0 | 2,739.6 | 8.8 | 5.1 | -175.85 | 1.3 | 76.6 | 478.2 | 468.6 | 9.61 | 49.774 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3H-32H-K268 - 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 | | Highside Toolface (°) | Offset Wellbore Centre | | Distance | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.01 | 0.0 | -19.6 | 19.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -90.01 | 0.0 | -19.6 | 19.6 | 19.3 | 0.30 | 64.488 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -90.01 | 0.0 | -19.6 | 19.6 | 18.9 | 0.65 | 30.002 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 27.12 | 0.0 | -19.6 | 19.4 | 18.4 | 1.00 | 19.355 | | |
| 400.0 | 400.0 | 400.1 | 400.1 | 0.7 | 0.7 | 29.78 | 0.0 | -19.4 | 17.6 | 16.3 | 1.35 | 13.051 | | |
| 500.0 | 499.9 | 500.3 | 500.2 | 0.9 | 0.9 | 38.47 | 0.1 | -17.6 | 13.0 | 11.3 | 1.70 | 7.643 | | |
| 600.0 | 599.8 | 600.0 | 600.0 | 1.1 | 1.0 | 75.63 | 0.4 | -14.1 | 7.0 | 4.9 | 2.08 | 3.359 | | |
| 626.5 | 626.2 | 626.4 | 626.3 | 1.1 | 1.1 | 99.48 | 0.5 | -12.9 | 6.4 | 4.2 | 2.19 | 2.921 | CC, ES, SF | |
| 700.0 | 699.5 | 699.3 | 699.1 | 1.3 | 1.2 | 154.35 | 0.8 | -9.0 | 11.1 | 8.7 | 2.42 | 4.600 | | |
| 800.0 | 799.2 | 797.9 | 797.4 | 1.5 | 1.4 | 174.99 | 1.4 | -2.1 | 25.2 | 22.5 | 2.75 | 9.184 | | |
| 900.0 | 898.6 | 895.6 | 894.7 | 1.7 | 1.6 | -178.59 | 2.0 | 6.3 | 43.5 | 40.4 | 3.09 | 14.097 | | |
| 1,000.0 | 997.9 | 992.6 | 991.2 | 2.0 | 1.9 | -175.62 | 2.8 | 16.2 | 65.3 | 61.8 | 3.43 | 19.030 | | |
| 1,100.0 | 1,096.9 | 1,089.7 | 1,087.8 | 2.3 | 2.1 | -174.15 | 3.6 | 26.6 | 89.2 | 85.4 | 3.77 | 23.641 | | |
| 1,200.0 | 1,195.7 | 1,186.3 | 1,183.9 | 2.6 | 2.3 | -173.39 | 4.4 | 36.9 | 114.8 | 110.7 | 4.11 | 27.908 | | |
| 1,300.0 | 1,294.1 | 1,282.5 | 1,279.5 | 2.9 | 2.5 | -172.98 | 5.2 | 47.1 | 142.1 | 137.6 | 4.45 | 31.910 | | |
| 1,400.0 | 1,392.3 | 1,378.2 | 1,374.7 | 3.3 | 2.8 | -172.77 | 6.0 | 57.3 | 171.0 | 166.2 | 4.79 | 35.705 | | |
| 1,500.0 | 1,490.1 | 1,473.5 | 1,469.4 | 3.6 | 3.0 | -172.68 | 6.8 | 67.4 | 201.5 | 196.3 | 5.13 | 39.271 | | |
| 1,600.0 | 1,587.9 | 1,568.6 | 1,564.0 | 4.0 | 3.3 | -172.64 | 7.5 | 77.6 | 232.2 | 226.7 | 5.48 | 42.393 | | |
| 1,700.0 | 1,685.7 | 1,663.8 | 1,658.6 | 4.4 | 3.5 | -172.61 | 8.3 | 87.7 | 262.9 | 257.1 | 5.82 | 45.141 | | |
| 1,800.0 | 1,783.5 | 1,759.0 | 1,753.2 | 4.8 | 3.7 | -172.59 | 9.1 | 97.9 | 293.6 | 287.5 | 6.17 | 47.579 | | |
| 1,900.0 | 1,881.3 | 1,854.1 | 1,847.9 | 5.2 | 4.0 | -172.57 | 9.9 | 108.0 | 324.4 | 317.8 | 6.52 | 49.755 | | |
| 2,000.0 | 1,979.1 | 1,949.3 | 1,942.5 | 5.6 | 4.2 | -172.55 | 10.7 | 118.1 | 355.1 | 348.2 | 6.87 | 51.710 | | |
| 2,100.0 | 2,076.9 | 2,044.4 | 2,037.1 | 6.0 | 4.4 | -172.54 | 11.5 | 128.3 | 385.8 | 378.6 | 7.21 | 53.475 | | |
| 2,200.0 | 2,174.7 | 2,139.6 | 2,131.7 | 6.4 | 4.7 | -172.53 | 12.3 | 138.4 | 416.5 | 409.0 | 7.56 | 55.078 | | |
| 2,300.0 | 2,272.4 | 2,234.8 | 2,226.3 | 6.8 | 4.9 | -172.52 | 13.1 | 148.5 | 447.3 | 439.4 | 7.91 | 56.538 | | |
| 2,400.0 | 2,370.2 | 2,329.9 | 2,320.9 | 7.2 | 5.2 | -172.51 | 13.8 | 158.7 | 478.0 | 469.7 | 8.26 | 57.875 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3I-32H-K268 - 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 | -123.10 | -3.6 | -5.6 | 6.7 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -123.10 | -3.6 | -5.6 | 6.7 | 6.4 | 0.30 | 21.993 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -123.10 | -3.6 | -5.6 | 6.7 | 6.0 | 0.65 | 10.232 CC, ES | | |
| 300.0 | 300.0 | 299.9 | 299.9 | 0.5 | 0.5 | -5.07 | -4.0 | -6.4 | 7.3 | 6.3 | 1.00 | 7.306 | | |
| 400.0 | 400.0 | 399.7 | 399.7 | 0.7 | 0.7 | -2.84 | -4.9 | -8.8 | 8.2 | 6.8 | 1.35 | 6.041 | | |
| 500.0 | 499.9 | 499.6 | 499.5 | 0.9 | 0.9 | 0.00 | -6.5 | -12.9 | 9.0 | 7.3 | 1.70 | 5.295 | | |
| 600.0 | 599.8 | 599.4 | 599.1 | 1.1 | 1.1 | 3.29 | -8.8 | -18.5 | 9.8 | 7.8 | 2.05 | 4.811 | | |
| 700.0 | 699.5 | 699.2 | 698.6 | 1.3 | 1.3 | 6.90 | -11.6 | -25.8 | 10.7 | 8.3 | 2.40 | 4.482 | | |
| 800.0 | 799.2 | 799.0 | 797.9 | 1.5 | 1.5 | 10.74 | -15.1 | -34.7 | 11.7 | 8.9 | 2.75 | 4.251 | | |
| 900.0 | 898.6 | 898.8 | 897.1 | 1.7 | 1.8 | 14.71 | -19.3 | -45.2 | 12.7 | 9.6 | 3.11 | 4.086 | | |
| 1,000.0 | 997.9 | 998.6 | 996.0 | 2.0 | 2.0 | 18.72 | -24.0 | -57.3 | 13.8 | 10.3 | 3.48 | 3.963 | | |
| 1,100.0 | 1,096.9 | 1,098.3 | 1,094.6 | 2.3 | 2.3 | 22.70 | -29.4 | -71.0 | 15.0 | 11.1 | 3.89 | 3.865 | | |
| 1,200.0 | 1,195.7 | 1,198.1 | 1,193.0 | 2.6 | 2.7 | 26.59 | -35.4 | -86.3 | 16.4 | 12.0 | 4.33 | 3.780 | | |
| 1,300.0 | 1,294.1 | 1,297.8 | 1,291.1 | 2.9 | 3.0 | 30.34 | -42.1 | -103.1 | 17.8 | 13.0 | 4.82 | 3.700 | | |
| 1,400.0 | 1,392.3 | 1,397.5 | 1,388.8 | 3.3 | 3.4 | 33.91 | -49.4 | -121.6 | 19.5 | 14.1 | 5.38 | 3.619 | | |
| 1,500.0 | 1,490.1 | 1,497.1 | 1,486.1 | 3.6 | 3.8 | 37.03 | -57.3 | -141.6 | 21.3 | 15.4 | 5.99 | 3.565 SF | | |
| 1,600.0 | 1,587.9 | 1,596.7 | 1,582.9 | 4.0 | 4.2 | 37.77 | -65.8 | -163.2 | 24.5 | 18.0 | 6.55 | 3.740 | | |
| 1,700.0 | 1,685.7 | 1,696.5 | 1,679.6 | 4.4 | 4.7 | 36.81 | -74.8 | -186.1 | 28.9 | 21.8 | 7.05 | 4.097 | | |
| 1,800.0 | 1,783.5 | 1,796.4 | 1,776.4 | 4.8 | 5.1 | 35.99 | -83.9 | -209.1 | 33.4 | 25.8 | 7.54 | 4.424 | | |
| 1,900.0 | 1,881.3 | 1,896.3 | 1,873.2 | 5.2 | 5.6 | 35.36 | -93.0 | -232.2 | 37.9 | 29.8 | 8.04 | 4.710 | | |
| 2,000.0 | 1,979.1 | 1,996.2 | 1,970.0 | 5.6 | 6.1 | 34.86 | -102.0 | -255.2 | 42.4 | 33.8 | 8.54 | 4.961 | | |
| 2,100.0 | 2,076.9 | 2,096.1 | 2,066.7 | 6.0 | 6.5 | 34.46 | -111.1 | -278.3 | 46.9 | 37.8 | 9.04 | 5.183 | | |
| 2,200.0 | 2,174.7 | 2,196.0 | 2,163.5 | 6.4 | 7.0 | 34.13 | -120.2 | -301.3 | 51.4 | 41.8 | 9.55 | 5.381 | | |
| 2,300.0 | 2,272.4 | 2,295.9 | 2,260.3 | 6.8 | 7.5 | 33.86 | -129.3 | -324.4 | 55.9 | 45.8 | 10.05 | 5.558 | | |
| 2,400.0 | 2,370.2 | 2,395.8 | 2,357.1 | 7.2 | 7.9 | 33.62 | -138.4 | -347.4 | 60.4 | 49.8 | 10.56 | 5.718 | | |
| 2,500.0 | 2,468.0 | 2,495.7 | 2,453.8 | 7.6 | 8.4 | 33.42 | -147.5 | -370.5 | 64.9 | 53.8 | 11.07 | 5.863 | | |
| 2,600.0 | 2,565.8 | 2,595.6 | 2,550.6 | 8.0 | 8.9 | 33.24 | -156.5 | -393.5 | 69.4 | 57.8 | 11.57 | 5.994 | | |
| 2,700.0 | 2,663.6 | 2,695.5 | 2,647.4 | 8.4 | 9.3 | 33.09 | -165.6 | -416.5 | 73.9 | 61.8 | 12.08 | 6.114 | | |
| 2,800.0 | 2,761.4 | 2,795.4 | 2,744.2 | 8.8 | 9.8 | 32.95 | -174.7 | -439.6 | 78.4 | 65.8 | 12.59 | 6.224 | | |
| 2,900.0 | 2,859.2 | 2,895.3 | 2,841.0 | 9.3 | 10.3 | 32.83 | -183.8 | -462.6 | 82.9 | 69.8 | 13.10 | 6.326 | | |
| 3,000.0 | 2,957.0 | 2,995.2 | 2,937.7 | 9.7 | 10.8 | 32.72 | -192.9 | -485.7 | 87.4 | 73.8 | 13.62 | 6.419 | | |
| 3,100.0 | 3,054.7 | 3,095.1 | 3,034.5 | 10.1 | 11.2 | 32.62 | -202.0 | -508.7 | 91.9 | 77.8 | 14.13 | 6.506 | | |
| 3,200.0 | 3,152.5 | 3,195.0 | 3,131.3 | 10.5 | 11.7 | 32.53 | -211.0 | -531.8 | 96.4 | 81.8 | 14.64 | 6.586 | | |
| 3,300.0 | 3,250.3 | 3,294.9 | 3,228.1 | 10.9 | 12.2 | 32.45 | -220.1 | -554.8 | 100.9 | 85.8 | 15.15 | 6.661 | | |
| 3,400.0 | 3,348.1 | 3,394.8 | 3,324.9 | 11.3 | 12.6 | 32.37 | -229.2 | -577.9 | 105.4 | 89.8 | 15.67 | 6.730 | | |
| 3,500.0 | 3,445.9 | 3,494.7 | 3,421.6 | 11.7 | 13.1 | 32.30 | -238.3 | -600.9 | 109.9 | 93.8 | 16.18 | 6.795 | | |
| 3,600.0 | 3,543.7 | 3,594.6 | 3,518.4 | 12.1 | 13.6 | 32.24 | -247.4 | -624.0 | 114.5 | 97.8 | 16.69 | 6.857 | | |
| 3,700.0 | 3,641.5 | 3,694.5 | 3,615.2 | 12.5 | 14.1 | 32.18 | -256.5 | -647.0 | 119.0 | 101.8 | 17.21 | 6.914 | | |
| 3,800.0 | 3,739.3 | 3,794.4 | 3,712.0 | 12.9 | 14.5 | 32.13 | -265.5 | -670.0 | 123.5 | 105.8 | 17.72 | 6.968 | | |
| 3,900.0 | 3,837.0 | 3,894.3 | 3,808.7 | 13.3 | 15.0 | 32.08 | -274.6 | -693.1 | 128.0 | 109.7 | 18.23 | 7.019 | | |
| 4,000.0 | 3,934.8 | 3,994.2 | 3,905.5 | 13.7 | 15.5 | 32.03 | -283.7 | -716.1 | 132.5 | 113.7 | 18.75 | 7.066 | | |
| 4,100.0 | 4,032.6 | 4,094.1 | 4,002.3 | 14.1 | 16.0 | 31.99 | -292.8 | -739.2 | 137.0 | 117.7 | 19.26 | 7.112 | | |
| 4,200.0 | 4,130.4 | 4,193.9 | 4,099.1 | 14.6 | 16.4 | 31.95 | -301.9 | -762.2 | 141.5 | 121.7 | 19.78 | 7.155 | | |
| 4,300.0 | 4,228.2 | 4,293.8 | 4,195.9 | 15.0 | 16.9 | 31.91 | -311.0 | -785.3 | 146.0 | 125.7 | 20.29 | 7.195 | | |
| 4,400.0 | 4,326.0 | 4,393.7 | 4,292.6 | 15.4 | 17.4 | 31.87 | -320.0 | -808.3 | 150.5 | 129.7 | 20.81 | 7.234 | | |
| 4,500.0 | 4,423.8 | 4,493.6 | 4,389.4 | 15.8 | 17.9 | 31.84 | -329.1 | -831.4 | 155.0 | 133.7 | 21.32 | 7.271 | | |
| 4,600.0 | 4,521.6 | 4,593.5 | 4,486.2 | 16.2 | 18.3 | 31.81 | -338.2 | -854.4 | 159.5 | 137.7 | 21.84 | 7.306 | | |
| 4,700.0 | 4,619.3 | 4,693.4 | 4,583.0 | 16.6 | 18.8 | 31.78 | -347.3 | -877.5 | 164.1 | 141.7 | 22.35 | 7.339 | | |
| 4,800.0 | 4,717.1 | 4,793.3 | 4,679.7 | 17.0 | 19.3 | 31.75 | -356.4 | -900.5 | 168.6 | 145.7 | 22.87 | 7.371 | | |
| 4,900.0 | 4,814.9 | 4,893.2 | 4,776.5 | 17.4 | 19.8 | 31.72 | -365.5 | -923.5 | 173.1 | 149.7 | 23.38 | 7.401 | | |
| 5,000.0 | 4,912.7 | 4,993.1 | 4,873.3 | 17.8 | 20.2 | 31.69 | -374.5 | -946.6 | 177.6 | 153.7 | 23.90 | 7.430 | | |
| 5,100.0 | 5,010.5 | 5,093.0 | 4,970.1 | 18.2 | 20.7 | 31.67 | -383.6 | -969.6 | 182.1 | 157.7 | 24.42 | 7.458 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3I-32H-K268 - 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 | 5,108.3 | 5,192.9 | 5,066.9 | 18.6 | 21.2 | 31.65 | -392.7 | -992.7 | 186.6 | 161.7 | 24.93 | 7.485 | | |
| 5,300.0 | 5,206.1 | 5,292.8 | 5,163.6 | 19.1 | 21.7 | 31.62 | -401.8 | -1,015.7 | 191.1 | 165.7 | 25.45 | 7.510 | | |
| 5,400.0 | 5,303.9 | 5,392.7 | 5,260.4 | 19.5 | 22.1 | 31.60 | -410.9 | -1,038.8 | 195.6 | 169.7 | 25.96 | 7.535 | | |
| 5,500.0 | 5,401.7 | 5,492.6 | 5,357.2 | 19.9 | 22.6 | 31.58 | -419.9 | -1,061.8 | 200.1 | 173.7 | 26.48 | 7.558 | | |
| 5,600.0 | 5,499.4 | 5,592.5 | 5,454.0 | 20.3 | 23.1 | 31.56 | -429.0 | -1,084.9 | 204.6 | 177.6 | 26.99 | 7.581 | | |
| 5,700.0 | 5,597.2 | 5,692.4 | 5,550.8 | 20.7 | 23.6 | 31.54 | -438.1 | -1,107.9 | 209.1 | 181.6 | 27.51 | 7.602 | | |
| 5,800.0 | 5,695.0 | 5,792.3 | 5,647.5 | 21.1 | 24.0 | 31.53 | -447.2 | -1,131.0 | 213.7 | 185.6 | 28.03 | 7.623 | | |
| 5,900.0 | 5,792.8 | 5,892.2 | 5,744.3 | 21.5 | 24.5 | 31.51 | -456.3 | -1,154.0 | 218.2 | 189.6 | 28.54 | 7.644 | | |
| 6,000.0 | 5,890.6 | 5,992.1 | 5,841.1 | 21.9 | 25.0 | 31.49 | -465.4 | -1,177.0 | 222.7 | 193.6 | 29.06 | 7.663 | | |
| 6,100.0 | 5,988.4 | 6,092.0 | 5,937.9 | 22.3 | 25.5 | 31.48 | -474.4 | -1,200.1 | 227.2 | 197.6 | 29.58 | 7.682 | | |
| 6,200.0 | 6,086.2 | 6,191.9 | 6,034.6 | 22.7 | 26.0 | 31.46 | -483.5 | -1,223.1 | 231.7 | 201.6 | 30.09 | 7.700 | | |
| 6,300.0 | 6,184.0 | 6,291.8 | 6,131.4 | 23.2 | 26.4 | 31.45 | -492.6 | -1,246.2 | 236.2 | 205.6 | 30.61 | 7.717 | | |
| 6,400.0 | 6,281.7 | 6,391.7 | 6,228.2 | 23.6 | 26.9 | 31.43 | -501.7 | -1,269.2 | 240.7 | 209.6 | 31.12 | 7.734 | | |
| 6,500.0 | 6,379.5 | 6,491.6 | 6,325.0 | 24.0 | 27.4 | 31.42 | -510.8 | -1,292.3 | 245.2 | 213.6 | 31.64 | 7.750 | | |
| 6,600.0 | 6,477.3 | 6,591.5 | 6,421.8 | 24.4 | 27.9 | 31.41 | -519.9 | -1,315.3 | 249.7 | 217.6 | 32.16 | 7.766 | | |
| 6,700.0 | 6,575.1 | 6,691.4 | 6,518.5 | 24.8 | 28.3 | 31.39 | -528.9 | -1,338.4 | 254.2 | 221.6 | 32.67 | 7.781 | | |
| 6,800.0 | 6,672.9 | 6,791.3 | 6,615.3 | 25.2 | 28.8 | 31.38 | -538.0 | -1,361.4 | 258.8 | 225.6 | 33.19 | 7.796 | | |
| 6,900.0 | 6,770.7 | 6,891.2 | 6,712.1 | 25.6 | 29.3 | 27.58 | -547.1 | -1,384.4 | 263.3 | 229.5 | 33.72 | 7.808 | | |
| 7,000.0 | 6,868.8 | 6,990.5 | 6,808.3 | 25.9 | 29.8 | -23.25 | -556.1 | -1,407.4 | 267.0 | 234.0 | 33.08 | 8.073 | | |
| 7,100.0 | 6,965.3 | 7,086.5 | 6,901.3 | 26.1 | 30.2 | -56.22 | -564.9 | -1,429.5 | 271.4 | 240.7 | 30.71 | 8.838 | | |
| 7,200.0 | 7,057.2 | 7,176.5 | 6,988.4 | 26.2 | 30.6 | -74.91 | -573.1 | -1,450.3 | 280.9 | 252.9 | 28.02 | 10.027 | | |
| 7,300.0 | 7,141.7 | 7,274.5 | 7,083.7 | 26.2 | 31.1 | -88.72 | -575.2 | -1,472.9 | 299.6 | 273.6 | 26.05 | 11.504 | | |
| 7,400.0 | 7,216.4 | 7,386.2 | 7,190.8 | 26.1 | 31.4 | -99.45 | -557.4 | -1,498.4 | 325.2 | 300.1 | 25.13 | 12.941 | | |
| 7,500.0 | 7,278.8 | 7,515.2 | 7,307.5 | 26.0 | 31.6 | -108.10 | -510.7 | -1,526.2 | 354.4 | 329.8 | 24.61 | 14.398 | | |
| 7,600.0 | 7,327.2 | 7,667.2 | 7,427.9 | 26.0 | 31.7 | -115.03 | -423.2 | -1,554.9 | 383.0 | 359.0 | 24.04 | 15.931 | | |
| 7,700.0 | 7,360.0 | 7,846.3 | 7,535.1 | 26.0 | 31.8 | -120.06 | -283.0 | -1,580.4 | 406.2 | 382.7 | 23.46 | 17.312 | | |
| 7,800.0 | 7,376.2 | 8,049.3 | 7,599.3 | 26.0 | 31.8 | -122.66 | -92.1 | -1,595.7 | 418.7 | 395.3 | 23.33 | 17.944 | | |
| 7,900.0 | 7,378.0 | 8,196.4 | 7,606.0 | 26.1 | 31.9 | -122.90 | 54.6 | -1,597.3 | 419.8 | 395.9 | 23.87 | 17.586 | | |
| 8,000.0 | 7,378.0 | 8,296.4 | 7,606.0 | 26.3 | 32.1 | -122.90 | 154.6 | -1,597.3 | 419.8 | 395.1 | 24.73 | 16.977 | | |
| 8,100.0 | 7,378.0 | 8,396.4 | 7,606.0 | 26.7 | 32.4 | -122.90 | 254.6 | -1,597.3 | 419.8 | 393.9 | 25.89 | 16.213 | | |
| 8,200.0 | 7,378.0 | 8,496.4 | 7,606.0 | 27.1 | 32.8 | -122.90 | 354.6 | -1,597.3 | 419.8 | 392.5 | 27.33 | 15.361 | | |
| 8,300.0 | 7,378.0 | 8,596.4 | 7,606.0 | 27.7 | 33.2 | -122.90 | 454.6 | -1,597.3 | 419.8 | 390.8 | 29.00 | 14.478 | | |
| 8,400.0 | 7,378.0 | 8,696.4 | 7,606.0 | 28.3 | 33.7 | -122.90 | 554.6 | -1,597.3 | 419.8 | 388.9 | 30.86 | 13.605 | | |
| 8,500.0 | 7,378.0 | 8,796.4 | 7,606.0 | 29.0 | 34.4 | -122.90 | 654.6 | -1,597.3 | 419.8 | 386.9 | 32.88 | 12.769 | | |
| 8,600.0 | 7,378.0 | 8,896.4 | 7,606.0 | 29.9 | 35.1 | -122.90 | 754.6 | -1,597.3 | 419.8 | 384.8 | 35.03 | 11.984 | | |
| 8,700.0 | 7,378.0 | 8,996.4 | 7,606.0 | 30.8 | 35.8 | -122.90 | 854.6 | -1,597.3 | 419.8 | 382.5 | 37.29 | 11.257 | | |
| 8,800.0 | 7,378.0 | 9,096.4 | 7,606.0 | 31.8 | 36.7 | -122.90 | 954.6 | -1,597.3 | 419.8 | 380.1 | 39.65 | 10.588 | | |
| 8,900.0 | 7,378.0 | 9,196.4 | 7,606.0 | 32.8 | 37.6 | -122.90 | 1,054.6 | -1,597.3 | 419.8 | 377.7 | 42.08 | 9.977 | | |
| 9,000.0 | 7,378.0 | 9,296.4 | 7,606.0 | 33.9 | 38.5 | -122.90 | 1,154.6 | -1,597.3 | 419.8 | 375.2 | 44.57 | 9.419 | | |
| 9,100.0 | 7,378.0 | 9,396.4 | 7,606.0 | 35.1 | 39.5 | -122.90 | 1,254.6 | -1,597.3 | 419.8 | 372.7 | 47.11 | 8.910 | | |
| 9,200.0 | 7,378.0 | 9,496.4 | 7,606.0 | 36.3 | 40.6 | -122.90 | 1,354.6 | -1,597.3 | 419.8 | 370.1 | 49.71 | 8.445 | | |
| 9,300.0 | 7,378.0 | 9,596.4 | 7,606.0 | 37.5 | 41.7 | -122.90 | 1,454.6 | -1,597.3 | 419.8 | 367.5 | 52.34 | 8.021 | | |
| 9,400.0 | 7,378.0 | 9,696.4 | 7,606.0 | 38.8 | 42.9 | -122.90 | 1,554.6 | -1,597.3 | 419.8 | 364.8 | 55.00 | 7.633 | | |
| 9,500.0 | 7,378.0 | 9,796.4 | 7,606.0 | 40.1 | 44.1 | -122.90 | 1,654.6 | -1,597.3 | 419.8 | 362.1 | 57.69 | 7.277 | | |
| 9,600.0 | 7,378.0 | 9,896.4 | 7,606.0 | 41.5 | 45.3 | -122.90 | 1,754.6 | -1,597.3 | 419.8 | 359.4 | 60.40 | 6.950 | | |
| 9,700.0 | 7,378.0 | 9,996.4 | 7,606.0 | 42.9 | 46.6 | -122.90 | 1,854.6 | -1,597.3 | 419.8 | 356.6 | 63.14 | 6.648 | | |
| 9,800.0 | 7,378.0 | 10,096.4 | 7,606.0 | 44.3 | 47.9 | -122.90 | 1,954.6 | -1,597.3 | 419.8 | 353.9 | 65.90 | 6.371 | | |
| 9,900.0 | 7,378.0 | 10,196.4 | 7,606.0 | 45.7 | 49.2 | -122.90 | 2,054.6 | -1,597.3 | 419.8 | 351.1 | 68.67 | 6.113 | | |
| 10,000.0 | 7,378.0 | 10,296.4 | 7,606.0 | 47.2 | 50.6 | -122.90 | 2,154.6 | -1,597.3 | 419.8 | 348.3 | 71.45 | 5.875 | | |
| 10,100.0 | 7,378.0 | 10,396.4 | 7,606.0 | 48.6 | 51.9 | -122.90 | 2,254.6 | -1,597.3 | 419.8 | 345.5 | 74.25 | 5.653 | | |
| 10,200.0 | 7,378.0 | 10,496.4 | 7,606.0 | 50.1 | 53.3 | -122.90 | 2,354.6 | -1,597.3 | 419.8 | 342.7 | 77.06 | 5.447 | | |
| 10,300.0 | 7,378.0 | 10,596.4 | 7,606.0 | 51.7 | 54.8 | -122.90 | 2,454.6 | -1,597.3 | 419.8 | 339.9 | 79.88 | 5.255 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | S32-T2N-R68W (File) - File 3I-32H-K268 - 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 | 7,378.0 | 10,696.4 | 7,606.0 | 53.2 | 56.2 | -122.90 | 2,554.6 | -1,597.3 | 419.8 | 337.1 | 82.71 | 5.075 | | | | | |
| 10,500.0 | 7,378.0 | 10,796.4 | 7,606.0 | 54.7 | 57.7 | -122.90 | 2,654.6 | -1,597.3 | 419.8 | 334.2 | 85.55 | 4.907 | | | | | |
| 10,600.0 | 7,378.0 | 10,896.4 | 7,606.0 | 56.3 | 59.2 | -122.90 | 2,754.6 | -1,597.3 | 419.8 | 331.4 | 88.40 | 4.749 | | | | | |
| 10,700.0 | 7,378.0 | 10,996.4 | 7,606.0 | 57.8 | 60.6 | -122.90 | 2,854.6 | -1,597.3 | 419.8 | 328.5 | 91.25 | 4.600 | | | | | |
| 10,800.0 | 7,378.0 | 11,096.4 | 7,606.0 | 59.4 | 62.1 | -122.90 | 2,954.6 | -1,597.3 | 419.8 | 325.7 | 94.11 | 4.461 | | | | | |
| 10,900.0 | 7,378.0 | 11,196.4 | 7,606.0 | 61.0 | 63.7 | -122.90 | 3,054.6 | -1,597.3 | 419.8 | 322.8 | 96.98 | 4.329 | | | | | |
| 10,956.4 | 7,378.0 | 11,252.8 | 7,606.0 | 61.9 | 64.5 | -122.90 | 3,111.0 | -1,597.3 | 419.8 | 321.2 | 98.59 | 4.258 | | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - 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 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 123.07 | -3.6 | 5.6 | 6.7 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 123.07 | -3.6 | 5.6 | 6.7 | 6.4 | 0.30 | 21.986 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 123.07 | -3.6 | 5.6 | 6.7 | 6.0 | 0.65 | 10.229 CC | | | |
| 229.3 | 229.3 | 229.3 | 229.3 | 0.4 | 0.4 | -120.37 | -3.6 | 5.6 | 6.7 | 5.9 | 0.75 | 8.870 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -121.69 | -3.6 | 5.6 | 6.8 | 5.8 | 1.00 | 6.776 ES | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | -131.26 | -3.8 | 5.4 | 7.7 | 6.4 | 1.35 | 5.714 | | | |
| 500.0 | 499.9 | 500.1 | 500.1 | 0.9 | 0.9 | -138.56 | -4.8 | 4.0 | 9.1 | 7.4 | 1.70 | 5.364 | | | |
| 600.0 | 599.8 | 600.2 | 600.1 | 1.1 | 1.0 | -142.85 | -6.8 | 1.1 | 10.8 | 8.8 | 2.06 | 5.252 | | | |
| 700.0 | 699.5 | 700.3 | 700.1 | 1.3 | 1.2 | -145.09 | -9.8 | -3.2 | 12.7 | 10.3 | 2.43 | 5.239 | | | |
| 800.0 | 799.2 | 800.5 | 800.0 | 1.5 | 1.4 | -145.98 | -13.8 | -8.9 | 14.8 | 12.0 | 2.80 | 5.268 | | | |
| 900.0 | 898.6 | 900.7 | 899.8 | 1.7 | 1.6 | -146.00 | -18.8 | -16.1 | 16.9 | 13.8 | 3.19 | 5.313 | | | |
| 1,000.0 | 997.9 | 1,000.9 | 999.5 | 2.0 | 1.9 | -145.43 | -24.8 | -24.7 | 19.3 | 15.7 | 3.60 | 5.360 | | | |
| 1,100.0 | 1,096.9 | 1,101.1 | 1,099.0 | 2.3 | 2.1 | -144.47 | -31.8 | -34.7 | 21.8 | 17.7 | 4.03 | 5.400 | | | |
| 1,200.0 | 1,195.7 | 1,201.4 | 1,198.2 | 2.6 | 2.4 | -143.27 | -39.7 | -46.2 | 24.4 | 19.9 | 4.50 | 5.427 | | | |
| 1,300.0 | 1,294.1 | 1,301.5 | 1,297.2 | 2.9 | 2.7 | -142.06 | -48.7 | -59.0 | 27.3 | 22.3 | 5.00 | 5.461 | | | |
| 1,400.0 | 1,392.3 | 1,401.4 | 1,395.8 | 3.3 | 3.0 | -142.57 | -57.8 | -72.1 | 31.3 | 25.8 | 5.49 | 5.706 | | | |
| 1,500.0 | 1,490.1 | 1,501.3 | 1,494.4 | 3.6 | 3.3 | -144.46 | -66.9 | -85.1 | 36.6 | 30.7 | 5.94 | 6.161 | | | |
| 1,600.0 | 1,587.9 | 1,601.1 | 1,592.9 | 4.0 | 3.6 | -146.11 | -76.0 | -98.2 | 42.1 | 35.8 | 6.39 | 6.600 | | | |
| 1,700.0 | 1,685.7 | 1,701.0 | 1,691.5 | 4.4 | 4.0 | -147.37 | -85.1 | -111.3 | 47.7 | 40.9 | 6.83 | 6.983 | | | |
| 1,800.0 | 1,783.5 | 1,800.8 | 1,790.1 | 4.8 | 4.3 | -148.37 | -94.2 | -124.3 | 53.3 | 46.0 | 7.28 | 7.322 | | | |
| 1,900.0 | 1,881.3 | 1,900.6 | 1,888.6 | 5.2 | 4.6 | -149.18 | -103.3 | -137.4 | 58.9 | 51.2 | 7.73 | 7.622 | | | |
| 2,000.0 | 1,979.1 | 2,000.5 | 1,987.2 | 5.6 | 4.9 | -149.85 | -112.4 | -150.4 | 64.6 | 56.4 | 8.18 | 7.889 | | | |
| 2,100.0 | 2,076.9 | 2,100.3 | 2,085.7 | 6.0 | 5.2 | -150.41 | -121.5 | -163.5 | 70.2 | 61.5 | 8.63 | 8.129 | | | |
| 2,200.0 | 2,174.7 | 2,200.2 | 2,184.3 | 6.4 | 5.6 | -150.89 | -130.6 | -176.6 | 75.8 | 66.7 | 9.08 | 8.346 | | | |
| 2,300.0 | 2,272.4 | 2,300.0 | 2,282.9 | 6.8 | 5.9 | -151.30 | -139.7 | -189.6 | 81.4 | 71.9 | 9.53 | 8.542 | | | |
| 2,400.0 | 2,370.2 | 2,399.8 | 2,381.4 | 7.2 | 6.2 | -151.66 | -148.8 | -202.7 | 87.1 | 77.1 | 9.99 | 8.720 | | | |
| 2,500.0 | 2,468.0 | 2,499.7 | 2,480.0 | 7.6 | 6.5 | -151.97 | -157.9 | -215.8 | 92.7 | 82.3 | 10.44 | 8.884 | | | |
| 2,600.0 | 2,565.8 | 2,599.5 | 2,578.6 | 8.0 | 6.9 | -152.25 | -167.0 | -228.8 | 98.4 | 87.5 | 10.89 | 9.033 | | | |
| 2,700.0 | 2,663.6 | 2,699.4 | 2,677.1 | 8.4 | 7.2 | -152.50 | -176.2 | -241.9 | 104.0 | 92.7 | 11.34 | 9.171 | | | |
| 2,800.0 | 2,761.4 | 2,799.2 | 2,775.7 | 8.8 | 7.5 | -152.72 | -185.3 | -255.0 | 109.7 | 97.9 | 11.80 | 9.298 | | | |
| 2,900.0 | 2,859.2 | 2,899.0 | 2,874.2 | 9.3 | 7.8 | -152.92 | -194.4 | -268.0 | 115.3 | 103.1 | 12.25 | 9.416 | | | |
| 3,000.0 | 2,957.0 | 2,998.9 | 2,972.8 | 9.7 | 8.2 | -153.10 | -203.5 | -281.1 | 121.0 | 108.3 | 12.70 | 9.525 | | | |
| 3,100.0 | 3,054.7 | 3,098.7 | 3,071.4 | 10.1 | 8.5 | -153.27 | -212.6 | -294.1 | 126.6 | 113.5 | 13.15 | 9.627 | | | |
| 3,200.0 | 3,152.5 | 3,198.6 | 3,169.9 | 10.5 | 8.8 | -153.42 | -221.7 | -307.2 | 132.3 | 118.7 | 13.61 | 9.722 | | | |
| 3,300.0 | 3,250.3 | 3,298.4 | 3,268.5 | 10.9 | 9.1 | -153.56 | -230.8 | -320.3 | 137.9 | 123.9 | 14.06 | 9.810 | | | |
| 3,400.0 | 3,348.1 | 3,398.2 | 3,367.0 | 11.3 | 9.5 | -153.69 | -239.9 | -333.3 | 143.6 | 129.1 | 14.51 | 9.894 | | | |
| 3,500.0 | 3,445.9 | 3,498.1 | 3,465.6 | 11.7 | 9.8 | -153.81 | -249.0 | -346.4 | 149.2 | 134.3 | 14.97 | 9.972 | | | |
| 3,600.0 | 3,543.7 | 3,597.9 | 3,564.2 | 12.1 | 10.1 | -153.92 | -258.1 | -359.5 | 154.9 | 139.5 | 15.42 | 10.045 | | | |
| 3,700.0 | 3,641.5 | 3,697.8 | 3,662.7 | 12.5 | 10.5 | -154.02 | -267.2 | -372.5 | 160.6 | 144.7 | 15.87 | 10.115 | | | |
| 3,800.0 | 3,739.3 | 3,797.6 | 3,761.3 | 12.9 | 10.8 | -154.11 | -276.3 | -385.6 | 166.2 | 149.9 | 16.33 | 10.180 | | | |
| 3,900.0 | 3,837.0 | 3,897.4 | 3,859.9 | 13.3 | 11.1 | -154.20 | -285.4 | -398.7 | 171.9 | 155.1 | 16.78 | 10.242 | | | |
| 4,000.0 | 3,934.8 | 3,997.3 | 3,958.4 | 13.7 | 11.4 | -154.29 | -294.5 | -411.7 | 177.5 | 160.3 | 17.24 | 10.301 | | | |
| 4,100.0 | 4,032.6 | 4,097.1 | 4,057.0 | 14.1 | 11.8 | -154.36 | -303.6 | -424.8 | 183.2 | 165.5 | 17.69 | 10.356 | | | |
| 4,200.0 | 4,130.4 | 4,197.0 | 4,155.5 | 14.6 | 12.1 | -154.44 | -312.7 | -437.8 | 188.9 | 170.7 | 18.14 | 10.409 | | | |
| 4,300.0 | 4,228.2 | 4,296.8 | 4,254.1 | 15.0 | 12.4 | -154.51 | -321.8 | -450.9 | 194.5 | 175.9 | 18.60 | 10.459 | | | |
| 4,400.0 | 4,326.0 | 4,396.6 | 4,352.7 | 15.4 | 12.8 | -154.57 | -330.9 | -464.0 | 200.2 | 181.1 | 19.05 | 10.507 | | | |
| 4,500.0 | 4,423.8 | 4,496.5 | 4,451.2 | 15.8 | 13.1 | -154.63 | -340.1 | -477.0 | 205.8 | 186.3 | 19.50 | 10.553 | | | |
| 4,600.0 | 4,521.6 | 4,596.3 | 4,549.8 | 16.2 | 13.4 | -154.69 | -349.2 | -490.1 | 211.5 | 191.5 | 19.96 | 10.596 | | | |
| 4,700.0 | 4,619.3 | 4,696.2 | 4,648.3 | 16.6 | 13.7 | -154.75 | -358.3 | -503.2 | 217.2 | 196.7 | 20.41 | 10.638 | | | |
| 4,800.0 | 4,717.1 | 4,796.0 | 4,746.9 | 17.0 | 14.1 | -154.80 | -367.4 | -516.2 | 222.8 | 201.9 | 20.87 | 10.678 | | | |
| 4,900.0 | 4,814.9 | 4,895.8 | 4,845.5 | 17.4 | 14.4 | -154.85 | -376.5 | -529.3 | 228.5 | 207.2 | 21.32 | 10.716 | | | |
| 5,000.0 | 4,912.7 | 4,995.7 | 4,944.0 | 17.8 | 14.7 | -154.90 | -385.6 | -542.3 | 234.1 | 212.4 | 21.78 | 10.752 | | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3K-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 5,100.0 | 5,010.5 | 5,095.5 | 5,042.6 | 18.2 | 15.1 | -154.94 | -394.7 | -555.4 | 239.8 | 217.6 | 22.23 | 10.787 | | |
| 5,200.0 | 5,108.3 | 5,195.3 | 5,141.2 | 18.6 | 15.4 | -154.99 | -403.8 | -568.5 | 245.5 | 222.8 | 22.68 | 10.821 | | |
| 5,300.0 | 5,206.1 | 5,295.2 | 5,239.7 | 19.1 | 15.7 | -155.03 | -412.9 | -581.5 | 251.1 | 228.0 | 23.14 | 10.853 | | |
| 5,400.0 | 5,303.9 | 5,395.0 | 5,338.3 | 19.5 | 16.0 | -155.07 | -422.0 | -594.6 | 256.8 | 233.2 | 23.59 | 10.884 | | |
| 5,500.0 | 5,401.7 | 5,494.9 | 5,436.8 | 19.9 | 16.4 | -155.10 | -431.1 | -607.7 | 262.4 | 238.4 | 24.05 | 10.914 | | |
| 5,600.0 | 5,499.4 | 5,594.7 | 5,535.4 | 20.3 | 16.7 | -155.14 | -440.2 | -620.7 | 268.1 | 243.6 | 24.50 | 10.943 | | |
| 5,700.0 | 5,597.2 | 5,694.5 | 5,634.0 | 20.7 | 17.0 | -155.17 | -449.3 | -633.8 | 273.8 | 248.8 | 24.96 | 10.970 | | |
| 5,800.0 | 5,695.0 | 5,794.4 | 5,732.5 | 21.1 | 17.4 | -155.21 | -458.4 | -646.9 | 279.4 | 254.0 | 25.41 | 10.997 | | |
| 5,900.0 | 5,792.8 | 5,894.2 | 5,831.1 | 21.5 | 17.7 | -155.24 | -467.5 | -659.9 | 285.1 | 259.2 | 25.86 | 11.023 | | |
| 6,000.0 | 5,890.6 | 5,994.1 | 5,929.6 | 21.9 | 18.0 | -155.27 | -476.6 | -673.0 | 290.8 | 264.4 | 26.32 | 11.048 | | |
| 6,100.0 | 5,988.4 | 6,093.9 | 6,028.2 | 22.3 | 18.3 | -155.30 | -485.7 | -686.0 | 296.4 | 269.6 | 26.77 | 11.072 | | |
| 6,200.0 | 6,086.2 | 6,193.7 | 6,126.8 | 22.7 | 18.7 | -155.33 | -494.8 | -699.1 | 302.1 | 274.9 | 27.23 | 11.095 | | |
| 6,300.0 | 6,184.0 | 6,293.6 | 6,225.3 | 23.2 | 19.0 | -155.36 | -504.0 | -712.2 | 307.7 | 280.1 | 27.68 | 11.117 | | |
| 6,400.0 | 6,281.7 | 6,393.4 | 6,323.9 | 23.6 | 19.3 | -155.38 | -513.1 | -725.2 | 313.4 | 285.3 | 28.14 | 11.139 | | |
| 6,500.0 | 6,379.5 | 6,493.3 | 6,422.5 | 24.0 | 19.7 | -155.41 | -522.2 | -738.3 | 319.1 | 290.5 | 28.59 | 11.160 | | |
| 6,600.0 | 6,477.3 | 6,593.1 | 6,521.0 | 24.4 | 20.0 | -155.43 | -531.3 | -751.4 | 324.7 | 295.7 | 29.05 | 11.180 | | |
| 6,700.0 | 6,575.1 | 6,692.9 | 6,619.6 | 24.8 | 20.3 | -155.46 | -540.4 | -764.4 | 330.4 | 300.9 | 29.50 | 11.200 | | |
| 6,800.0 | 6,672.9 | 6,792.8 | 6,718.1 | 25.2 | 20.7 | -155.48 | -549.5 | -777.5 | 336.1 | 306.1 | 29.95 | 11.219 | | |
| 6,900.0 | 6,770.7 | 6,892.6 | 6,816.7 | 25.6 | 21.0 | -159.36 | -558.6 | -790.5 | 341.7 | 311.3 | 30.39 | 11.243 | | |
| 7,000.0 | 6,868.8 | 6,991.8 | 6,914.6 | 25.9 | 21.3 | 152.73 | -567.6 | -803.5 | 347.2 | 316.0 | 31.13 | 11.153 | | |
| 7,100.0 | 6,965.3 | 7,088.9 | 7,010.5 | 26.1 | 21.6 | 128.40 | -576.0 | -816.2 | 353.5 | 321.0 | 32.51 | 10.874 | | |
| 7,200.0 | 7,057.2 | 7,190.7 | 7,111.2 | 26.2 | 21.8 | 120.87 | -571.9 | -829.6 | 362.2 | 328.7 | 33.50 | 10.813 | | |
| 7,300.0 | 7,141.7 | 7,299.2 | 7,215.9 | 26.2 | 21.9 | 119.04 | -547.8 | -843.5 | 372.9 | 339.3 | 33.59 | 11.099 | | |
| 7,400.0 | 7,216.4 | 7,415.2 | 7,320.8 | 26.1 | 21.8 | 119.35 | -500.6 | -857.4 | 384.5 | 351.8 | 32.71 | 11.756 | | |
| 7,500.0 | 7,278.8 | 7,539.5 | 7,420.1 | 26.0 | 21.6 | 120.45 | -427.6 | -870.5 | 396.0 | 365.0 | 30.99 | 12.778 | | |
| 7,600.0 | 7,327.2 | 7,671.9 | 7,506.3 | 26.0 | 21.3 | 121.67 | -328.0 | -881.9 | 406.1 | 377.3 | 28.85 | 14.077 | | |
| 7,700.0 | 7,360.0 | 7,811.5 | 7,570.0 | 26.0 | 21.1 | 122.64 | -204.5 | -890.4 | 413.5 | 386.5 | 26.95 | 15.341 | | |
| 7,800.0 | 7,376.2 | 7,955.8 | 7,602.8 | 26.0 | 21.1 | 123.10 | -64.4 | -894.7 | 417.2 | 391.1 | 26.10 | 15.981 | | |
| 7,900.0 | 7,378.0 | 8,074.9 | 7,606.0 | 26.1 | 21.3 | 123.11 | 54.6 | -895.2 | 417.4 | 390.9 | 26.53 | 15.737 | | |
| 8,000.0 | 7,378.0 | 8,174.9 | 7,606.0 | 26.3 | 21.6 | 123.11 | 154.6 | -895.2 | 417.4 | 390.1 | 27.31 | 15.286 | | |
| 8,100.0 | 7,378.0 | 8,274.9 | 7,606.0 | 26.7 | 22.0 | 123.11 | 254.6 | -895.2 | 417.4 | 389.1 | 28.37 | 14.712 | | |
| 8,200.0 | 7,378.0 | 8,374.9 | 7,606.0 | 27.1 | 22.5 | 123.11 | 354.6 | -895.2 | 417.4 | 387.7 | 29.69 | 14.058 | | |
| 8,300.0 | 7,378.0 | 8,474.9 | 7,606.0 | 27.7 | 23.2 | 123.11 | 454.6 | -895.2 | 417.4 | 386.2 | 31.24 | 13.364 | | |
| 8,400.0 | 7,378.0 | 8,574.9 | 7,606.0 | 28.3 | 24.0 | 123.11 | 554.6 | -895.2 | 417.4 | 384.5 | 32.97 | 12.661 | | |
| 8,500.0 | 7,378.0 | 8,674.9 | 7,606.0 | 29.0 | 24.9 | 123.11 | 654.6 | -895.2 | 417.4 | 382.6 | 34.87 | 11.972 | | |
| 8,600.0 | 7,378.0 | 8,774.9 | 7,606.0 | 29.9 | 25.9 | 123.11 | 754.6 | -895.2 | 417.4 | 380.5 | 36.90 | 11.312 | | |
| 8,700.0 | 7,378.0 | 8,874.9 | 7,606.0 | 30.8 | 26.9 | 123.11 | 854.6 | -895.2 | 417.4 | 378.4 | 39.06 | 10.688 | | |
| 8,800.0 | 7,378.0 | 8,974.9 | 7,606.0 | 31.8 | 28.1 | 123.11 | 954.6 | -895.2 | 417.4 | 376.1 | 41.31 | 10.106 | | |
| 8,900.0 | 7,378.0 | 9,074.9 | 7,606.0 | 32.8 | 29.3 | 123.11 | 1,054.6 | -895.2 | 417.4 | 373.8 | 43.64 | 9.566 | | |
| 9,000.0 | 7,378.0 | 9,174.9 | 7,606.0 | 33.9 | 30.5 | 123.11 | 1,154.6 | -895.2 | 417.4 | 371.4 | 46.04 | 9.066 | | |
| 9,100.0 | 7,378.0 | 9,274.9 | 7,606.0 | 35.1 | 31.8 | 123.11 | 1,254.6 | -895.2 | 417.4 | 368.9 | 48.51 | 8.606 | | |
| 9,200.0 | 7,378.0 | 9,374.9 | 7,606.0 | 36.3 | 33.1 | 123.11 | 1,354.6 | -895.2 | 417.4 | 366.4 | 51.02 | 8.182 | | |
| 9,300.0 | 7,378.0 | 9,474.9 | 7,606.0 | 37.5 | 34.5 | 123.11 | 1,454.6 | -895.2 | 417.4 | 363.9 | 53.58 | 7.791 | | |
| 9,400.0 | 7,378.0 | 9,574.9 | 7,606.0 | 38.8 | 35.9 | 123.11 | 1,554.6 | -895.2 | 417.4 | 361.3 | 56.18 | 7.431 | | |
| 9,500.0 | 7,378.0 | 9,674.9 | 7,606.0 | 40.1 | 37.3 | 123.11 | 1,654.6 | -895.2 | 417.4 | 358.6 | 58.81 | 7.099 | | |
| 9,600.0 | 7,378.0 | 9,774.9 | 7,606.0 | 41.5 | 38.8 | 123.11 | 1,754.6 | -895.2 | 417.4 | 356.0 | 61.46 | 6.792 | | |
| 9,700.0 | 7,378.0 | 9,874.9 | 7,606.0 | 42.9 | 40.3 | 123.11 | 1,854.6 | -895.2 | 417.4 | 353.3 | 64.15 | 6.507 | | |
| 9,800.0 | 7,378.0 | 9,974.9 | 7,606.0 | 44.3 | 41.8 | 123.11 | 1,954.6 | -895.2 | 417.4 | 350.6 | 66.85 | 6.244 | | |
| 9,900.0 | 7,378.0 | 10,074.9 | 7,606.0 | 45.7 | 43.3 | 123.11 | 2,054.6 | -895.2 | 417.4 | 347.9 | 69.58 | 5.999 | | |
| 10,000.0 | 7,378.0 | 10,174.9 | 7,606.0 | 47.2 | 44.9 | 123.11 | 2,154.6 | -895.2 | 417.4 | 345.1 | 72.32 | 5.772 | | |
| 10,100.0 | 7,378.0 | 10,274.9 | 7,606.0 | 48.6 | 46.4 | 123.11 | 2,254.6 | -895.2 | 417.4 | 342.4 | 75.08 | 5.560 | | |
| 10,200.0 | 7,378.0 | 10,374.9 | 7,606.0 | 50.1 | 48.0 | 123.11 | 2,354.6 | -895.2 | 417.4 | 339.6 | 77.85 | 5.362 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | S32-T2N-R68W (File) - File 3K-32H-K268 - 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 | 7,378.0 | 10,474.9 | 7,606.0 | 51.7 | 49.6 | 123.11 | 2,454.6 | -895.2 | 417.4 | 336.8 | 80.64 | 5.177 | | | | | |
| 10,400.0 | 7,378.0 | 10,574.9 | 7,606.0 | 53.2 | 51.2 | 123.11 | 2,554.6 | -895.2 | 417.4 | 334.0 | 83.43 | 5.003 | | | | | |
| 10,500.0 | 7,378.0 | 10,674.9 | 7,606.0 | 54.7 | 52.8 | 123.11 | 2,654.6 | -895.2 | 417.4 | 331.2 | 86.24 | 4.841 | | | | | |
| 10,600.0 | 7,378.0 | 10,774.9 | 7,606.0 | 56.3 | 54.4 | 123.11 | 2,754.6 | -895.2 | 417.4 | 328.4 | 89.05 | 4.688 | | | | | |
| 10,700.0 | 7,378.0 | 10,874.9 | 7,606.0 | 57.8 | 56.0 | 123.11 | 2,854.6 | -895.2 | 417.4 | 325.6 | 91.88 | 4.544 | | | | | |
| 10,800.0 | 7,378.0 | 10,974.9 | 7,606.0 | 59.4 | 57.6 | 123.11 | 2,954.6 | -895.2 | 417.4 | 322.7 | 94.71 | 4.408 | | | | | |
| 10,900.0 | 7,378.0 | 11,074.9 | 7,606.0 | 61.0 | 59.3 | 123.11 | 3,054.6 | -895.2 | 417.4 | 319.9 | 97.54 | 4.280 | | | | | |
| 10,941.3 | 7,378.0 | 11,116.2 | 7,606.0 | 61.7 | 59.9 | 123.11 | 3,095.9 | -895.2 | 417.4 | 318.7 | 98.72 | 4.229 | | | | | |
| 10,956.4 | 7,378.0 | 11,127.7 | 7,606.0 | 61.9 | 60.1 | 123.11 | 3,107.3 | -895.2 | 417.5 | 318.4 | 99.09 | 4.213 SF | | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-----------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.00 | 0.0 | 8.4 | 8.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 90.00 | 0.0 | 8.4 | 8.4 | 8.1 | 0.30 | 27.638 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.00 | 0.0 | 8.4 | 8.4 | 7.7 | 0.65 | 12.858 CC | | |
| 228.0 | 228.0 | 228.0 | 228.0 | 0.4 | 0.4 | -153.26 | 0.0 | 8.4 | 8.4 | 7.7 | 0.75 | 11.226 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -153.82 | 0.0 | 8.4 | 8.6 | 7.6 | 1.00 | 8.573 ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | -158.15 | 0.0 | 8.4 | 10.2 | 8.8 | 1.35 | 7.538 | | |
| 500.0 | 499.9 | 500.1 | 500.1 | 0.9 | 0.9 | -161.26 | -0.7 | 7.8 | 12.8 | 11.1 | 1.70 | 7.533 SF | | |
| 600.0 | 599.8 | 600.2 | 600.2 | 1.1 | 1.0 | -161.16 | -2.6 | 6.1 | 15.8 | 13.7 | 2.05 | 7.688 | | |
| 700.0 | 699.5 | 700.4 | 700.3 | 1.3 | 1.2 | -159.36 | -5.9 | 3.2 | 19.1 | 16.7 | 2.41 | 7.919 | | |
| 800.0 | 799.2 | 800.6 | 800.3 | 1.5 | 1.4 | -156.68 | -10.5 | -0.8 | 22.8 | 20.0 | 2.78 | 8.195 | | |
| 900.0 | 898.6 | 900.8 | 900.2 | 1.7 | 1.6 | -153.60 | -16.4 | -6.0 | 26.9 | 23.7 | 3.16 | 8.493 | | |
| 1,000.0 | 997.9 | 1,001.0 | 999.9 | 2.0 | 1.8 | -150.39 | -23.7 | -12.4 | 31.5 | 27.9 | 3.58 | 8.795 | | |
| 1,100.0 | 1,096.9 | 1,101.2 | 1,099.5 | 2.3 | 2.1 | -147.24 | -32.2 | -19.9 | 36.6 | 32.5 | 4.02 | 9.085 | | |
| 1,200.0 | 1,195.7 | 1,201.1 | 1,198.6 | 2.6 | 2.3 | -144.84 | -41.6 | -28.2 | 42.5 | 38.0 | 4.50 | 9.451 | | |
| 1,300.0 | 1,294.1 | 1,300.8 | 1,297.5 | 2.9 | 2.6 | -144.19 | -51.0 | -36.4 | 49.9 | 44.9 | 4.97 | 10.028 | | |
| 1,400.0 | 1,392.3 | 1,400.5 | 1,396.3 | 3.3 | 2.9 | -144.69 | -60.5 | -44.7 | 58.7 | 53.2 | 5.45 | 10.774 | | |
| 1,500.0 | 1,490.1 | 1,499.9 | 1,495.0 | 3.6 | 3.1 | -145.83 | -69.9 | -53.0 | 68.8 | 62.9 | 5.91 | 11.640 | | |
| 1,600.0 | 1,587.9 | 1,599.4 | 1,593.7 | 4.0 | 3.4 | -146.81 | -79.3 | -61.2 | 79.2 | 72.8 | 6.37 | 12.418 | | |
| 1,700.0 | 1,685.7 | 1,698.8 | 1,692.3 | 4.4 | 3.7 | -147.57 | -88.7 | -69.5 | 89.5 | 82.7 | 6.84 | 13.089 | | |
| 1,800.0 | 1,783.5 | 1,798.3 | 1,791.0 | 4.8 | 3.9 | -148.17 | -98.1 | -77.8 | 99.9 | 92.6 | 7.31 | 13.672 | | |
| 1,900.0 | 1,881.3 | 1,897.7 | 1,889.7 | 5.2 | 4.2 | -148.66 | -107.5 | -86.0 | 110.3 | 102.6 | 7.78 | 14.184 | | |
| 2,000.0 | 1,979.1 | 1,997.2 | 1,988.3 | 5.6 | 4.5 | -149.06 | -116.9 | -94.3 | 120.7 | 112.5 | 8.25 | 14.636 | | |
| 2,100.0 | 2,076.9 | 2,096.7 | 2,087.0 | 6.0 | 4.7 | -149.40 | -126.3 | -102.5 | 131.2 | 122.4 | 8.72 | 15.039 | | |
| 2,200.0 | 2,174.7 | 2,196.1 | 2,185.7 | 6.4 | 5.0 | -149.69 | -135.7 | -110.8 | 141.6 | 132.4 | 9.19 | 15.399 | | |
| 2,300.0 | 2,272.4 | 2,295.6 | 2,284.3 | 6.8 | 5.3 | -149.94 | -145.1 | -119.1 | 152.0 | 142.3 | 9.67 | 15.723 | | |
| 2,400.0 | 2,370.2 | 2,395.0 | 2,383.0 | 7.2 | 5.6 | -150.16 | -154.5 | -127.3 | 162.4 | 152.3 | 10.14 | 16.016 | | |
| 2,500.0 | 2,468.0 | 2,494.5 | 2,481.6 | 7.6 | 5.8 | -150.35 | -163.9 | -135.6 | 172.8 | 162.2 | 10.62 | 16.283 | | |
| 2,600.0 | 2,565.8 | 2,593.9 | 2,580.3 | 8.0 | 6.1 | -150.52 | -173.3 | -143.8 | 183.3 | 172.2 | 11.09 | 16.526 | | |
| 2,700.0 | 2,663.6 | 2,693.4 | 2,679.0 | 8.4 | 6.4 | -150.67 | -182.7 | -152.1 | 193.7 | 182.1 | 11.57 | 16.748 | | |
| 2,800.0 | 2,761.4 | 2,792.8 | 2,777.6 | 8.8 | 6.7 | -150.80 | -192.1 | -160.4 | 204.1 | 192.1 | 12.04 | 16.953 | | |
| 2,900.0 | 2,859.2 | 2,892.3 | 2,876.3 | 9.3 | 7.0 | -150.93 | -201.5 | -168.6 | 214.6 | 202.1 | 12.52 | 17.142 | | |
| 3,000.0 | 2,957.0 | 2,991.7 | 2,975.0 | 9.7 | 7.2 | -151.04 | -210.9 | -176.9 | 225.0 | 212.0 | 12.99 | 17.317 | | |
| 3,100.0 | 3,054.7 | 3,091.2 | 3,073.6 | 10.1 | 7.5 | -151.14 | -220.3 | -185.1 | 235.4 | 222.0 | 13.47 | 17.479 | | |
| 3,200.0 | 3,152.5 | 3,190.6 | 3,172.3 | 10.5 | 7.8 | -151.23 | -229.8 | -193.4 | 245.9 | 231.9 | 13.95 | 17.630 | | |
| 3,300.0 | 3,250.3 | 3,290.1 | 3,270.9 | 10.9 | 8.1 | -151.32 | -239.2 | -201.7 | 256.3 | 241.9 | 14.42 | 17.771 | | |
| 3,400.0 | 3,348.1 | 3,389.5 | 3,369.6 | 11.3 | 8.3 | -151.39 | -248.6 | -209.9 | 266.7 | 251.8 | 14.90 | 17.902 | | |
| 3,500.0 | 3,445.9 | 3,489.0 | 3,468.3 | 11.7 | 8.6 | -151.47 | -258.0 | -218.2 | 277.2 | 261.8 | 15.38 | 18.025 | | |
| 3,600.0 | 3,543.7 | 3,588.5 | 3,566.9 | 12.1 | 8.9 | -151.53 | -267.4 | -226.4 | 287.6 | 271.8 | 15.85 | 18.141 | | |
| 3,700.0 | 3,641.5 | 3,687.9 | 3,665.6 | 12.5 | 9.2 | -151.60 | -276.8 | -234.7 | 298.0 | 281.7 | 16.33 | 18.250 | | |
| 3,800.0 | 3,739.3 | 3,787.4 | 3,764.3 | 12.9 | 9.5 | -151.66 | -286.2 | -243.0 | 308.5 | 291.7 | 16.81 | 18.352 | | |
| 3,900.0 | 3,837.0 | 3,886.8 | 3,862.9 | 13.3 | 9.7 | -151.71 | -295.6 | -251.2 | 318.9 | 301.6 | 17.29 | 18.449 | | |
| 4,000.0 | 3,934.8 | 3,986.3 | 3,961.6 | 13.7 | 10.0 | -151.76 | -305.0 | -259.5 | 329.4 | 311.6 | 17.76 | 18.540 | | |
| 4,100.0 | 4,032.6 | 4,085.7 | 4,060.2 | 14.1 | 10.3 | -151.81 | -314.4 | -267.7 | 339.8 | 321.6 | 18.24 | 18.627 | | |
| 4,200.0 | 4,130.4 | 4,185.2 | 4,158.9 | 14.6 | 10.6 | -151.85 | -323.8 | -276.0 | 350.2 | 331.5 | 18.72 | 18.709 | | |
| 4,300.0 | 4,228.2 | 4,284.6 | 4,257.6 | 15.0 | 10.8 | -151.90 | -333.2 | -284.3 | 360.7 | 341.5 | 19.20 | 18.787 | | |
| 4,400.0 | 4,326.0 | 4,384.1 | 4,356.2 | 15.4 | 11.1 | -151.94 | -342.6 | -292.5 | 371.1 | 351.4 | 19.68 | 18.861 | | |
| 4,500.0 | 4,423.8 | 4,483.5 | 4,454.9 | 15.8 | 11.4 | -151.98 | -352.0 | -300.8 | 381.5 | 361.4 | 20.15 | 18.931 | | |
| 4,600.0 | 4,521.6 | 4,583.0 | 4,553.6 | 16.2 | 11.7 | -152.01 | -361.4 | -309.0 | 392.0 | 371.4 | 20.63 | 18.999 | | |
| 4,700.0 | 4,619.3 | 4,682.4 | 4,652.2 | 16.6 | 12.0 | -152.04 | -370.8 | -317.3 | 402.4 | 381.3 | 21.11 | 19.063 | | |
| 4,800.0 | 4,717.1 | 4,781.9 | 4,750.9 | 17.0 | 12.2 | -152.08 | -380.2 | -325.6 | 412.9 | 391.3 | 21.59 | 19.124 | | |
| 4,900.0 | 4,814.9 | 4,881.3 | 4,849.5 | 17.4 | 12.5 | -152.11 | -389.6 | -333.8 | 423.3 | 401.2 | 22.07 | 19.182 | | |
| 5,000.0 | 4,912.7 | 4,980.8 | 4,948.2 | 17.8 | 12.8 | -152.14 | -399.0 | -342.1 | 433.7 | 411.2 | 22.55 | 19.238 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | S32-T2N-R68W (File) - File 3L-32H-K268 - Hz - Plan #1 | | | Offset Site Error: | | 0.0 ft |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|---|-------------------|---------|--------------------|--|--------|
| Survey Program: | | | | | | | | | | | 0-Geolink MWD | | | Offset Well Error: | | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | | | | | | |
| 5,100.0 | 5,010.5 | 5,080.3 | 5,046.9 | 18.2 | 13.1 | -152.17 | -408.4 | -350.3 | 444.2 | 421.2 | 23.02 | 19.292 | | | | |
| 5,200.0 | 5,108.3 | 5,179.7 | 5,145.5 | 18.6 | 13.4 | -152.19 | -417.8 | -358.6 | 454.6 | 431.1 | 23.50 | 19.343 | | | | |
| 5,300.0 | 5,206.1 | 5,279.2 | 5,244.2 | 19.1 | 13.6 | -152.22 | -427.3 | -366.9 | 465.1 | 441.1 | 23.98 | 19.393 | | | | |
| 5,400.0 | 5,303.9 | 5,378.6 | 5,342.9 | 19.5 | 13.9 | -152.24 | -436.7 | -375.1 | 475.5 | 451.0 | 24.46 | 19.440 | | | | |
| 5,500.0 | 5,401.7 | 5,478.1 | 5,441.5 | 19.9 | 14.2 | -152.26 | -446.1 | -383.4 | 485.9 | 461.0 | 24.94 | 19.486 | | | | |
| 5,600.0 | 5,499.4 | 5,577.5 | 5,540.2 | 20.3 | 14.5 | -152.29 | -455.5 | -391.6 | 496.4 | 471.0 | 25.42 | 19.529 | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3M-32H-K268 - 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 | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 98.23 | -3.6 | 25.2 | 25.4 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 98.23 | -3.6 | 25.2 | 25.4 | 25.1 | 0.30 | 83.776 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 98.23 | -3.6 | 25.2 | 25.4 | 24.8 | 0.65 | 38.976 CC | | | |
| 263.2 | 263.2 | 263.3 | 263.3 | 0.4 | 0.4 | -144.38 | -4.0 | 25.1 | 25.5 | 24.6 | 0.87 | 29.196 | | | |
| 300.0 | 300.0 | 300.1 | 300.1 | 0.5 | 0.5 | -143.28 | -4.5 | 24.9 | 25.5 | 24.5 | 1.00 | 25.388 ES | | | |
| 400.0 | 400.0 | 400.1 | 400.1 | 0.7 | 0.7 | -139.94 | -6.9 | 24.0 | 26.5 | 25.1 | 1.36 | 19.493 | | | |
| 500.0 | 499.9 | 500.1 | 500.0 | 0.9 | 0.9 | -135.75 | -11.1 | 22.6 | 28.7 | 27.0 | 1.72 | 16.673 | | | |
| 600.0 | 599.8 | 600.0 | 599.7 | 1.1 | 1.1 | -131.38 | -16.8 | 20.5 | 32.4 | 30.3 | 2.11 | 15.358 | | | |
| 700.0 | 699.5 | 699.8 | 699.2 | 1.3 | 1.3 | -127.34 | -24.2 | 17.9 | 37.4 | 34.9 | 2.52 | 14.864 | | | |
| 800.0 | 799.2 | 799.6 | 798.5 | 1.5 | 1.5 | -124.42 | -32.8 | 14.9 | 43.7 | 40.8 | 2.94 | 14.859 SF | | | |
| 900.0 | 898.6 | 899.3 | 897.8 | 1.7 | 1.7 | -123.78 | -41.5 | 11.8 | 51.1 | 47.8 | 3.39 | 15.093 | | | |
| 1,000.0 | 997.9 | 998.9 | 997.0 | 2.0 | 2.0 | -124.68 | -50.2 | 8.7 | 59.5 | 55.7 | 3.85 | 15.472 | | | |
| 1,100.0 | 1,096.9 | 1,098.5 | 1,096.1 | 2.3 | 2.2 | -126.53 | -58.9 | 5.7 | 68.9 | 64.6 | 4.32 | 15.971 | | | |
| 1,200.0 | 1,195.7 | 1,197.9 | 1,195.1 | 2.6 | 2.4 | -128.90 | -67.6 | 2.6 | 79.5 | 74.7 | 4.79 | 16.587 | | | |
| 1,300.0 | 1,294.1 | 1,297.1 | 1,293.9 | 2.9 | 2.7 | -131.52 | -76.2 | -0.4 | 91.3 | 86.0 | 5.27 | 17.322 | | | |
| 1,400.0 | 1,392.3 | 1,396.1 | 1,392.5 | 3.3 | 2.9 | -134.20 | -84.9 | -3.5 | 104.5 | 98.7 | 5.75 | 18.175 | | | |
| 1,500.0 | 1,490.1 | 1,494.9 | 1,490.9 | 3.6 | 3.1 | -136.83 | -93.5 | -6.5 | 119.0 | 112.7 | 6.22 | 19.130 | | | |
| 1,600.0 | 1,587.9 | 1,593.7 | 1,589.2 | 4.0 | 3.4 | -139.01 | -102.1 | -9.6 | 133.9 | 127.2 | 6.69 | 20.025 | | | |
| 1,700.0 | 1,685.7 | 1,692.4 | 1,687.5 | 4.4 | 3.6 | -140.76 | -110.8 | -12.6 | 148.9 | 141.8 | 7.15 | 20.831 | | | |
| 1,800.0 | 1,783.5 | 1,791.2 | 1,785.9 | 4.8 | 3.8 | -142.18 | -119.4 | -15.7 | 164.1 | 156.5 | 7.61 | 21.558 | | | |
| 1,900.0 | 1,881.3 | 1,890.0 | 1,884.2 | 5.2 | 4.0 | -143.37 | -128.0 | -18.7 | 179.4 | 171.3 | 8.07 | 22.216 | | | |
| 2,000.0 | 1,979.1 | 1,988.7 | 1,982.6 | 5.6 | 4.3 | -144.36 | -136.6 | -21.8 | 194.7 | 186.1 | 8.53 | 22.813 | | | |
| 2,100.0 | 2,076.9 | 2,087.5 | 2,080.9 | 6.0 | 4.5 | -145.21 | -145.3 | -24.8 | 210.0 | 201.1 | 8.99 | 23.356 | | | |
| 2,200.0 | 2,174.7 | 2,186.3 | 2,179.3 | 6.4 | 4.8 | -145.95 | -153.9 | -27.9 | 225.5 | 216.0 | 9.45 | 23.852 | | | |
| 2,300.0 | 2,272.4 | 2,285.0 | 2,277.6 | 6.8 | 5.0 | -146.59 | -162.5 | -30.9 | 240.9 | 231.0 | 9.91 | 24.306 | | | |
| 2,400.0 | 2,370.2 | 2,383.8 | 2,375.9 | 7.2 | 5.2 | -147.15 | -171.1 | -33.9 | 256.4 | 246.0 | 10.37 | 24.723 | | | |
| 2,500.0 | 2,468.0 | 2,482.6 | 2,474.3 | 7.6 | 5.5 | -147.65 | -179.7 | -37.0 | 271.8 | 261.0 | 10.83 | 25.108 | | | |
| 2,600.0 | 2,565.8 | 2,581.3 | 2,572.6 | 8.0 | 5.7 | -148.10 | -188.4 | -40.0 | 287.3 | 276.1 | 11.28 | 25.463 | | | |
| 2,700.0 | 2,663.6 | 2,680.1 | 2,671.0 | 8.4 | 5.9 | -148.50 | -197.0 | -43.1 | 302.9 | 291.1 | 11.74 | 25.792 | | | |
| 2,800.0 | 2,761.4 | 2,778.9 | 2,769.3 | 8.8 | 6.2 | -148.86 | -205.6 | -46.1 | 318.4 | 306.2 | 12.20 | 26.098 | | | |
| 2,900.0 | 2,859.2 | 2,877.6 | 2,867.7 | 9.3 | 6.4 | -149.19 | -214.2 | -49.2 | 333.9 | 321.3 | 12.66 | 26.383 | | | |
| 3,000.0 | 2,957.0 | 2,976.4 | 2,966.0 | 9.7 | 6.6 | -149.49 | -222.9 | -52.2 | 349.5 | 336.4 | 13.11 | 26.649 | | | |
| 3,100.0 | 3,054.7 | 3,075.2 | 3,064.3 | 10.1 | 6.9 | -149.76 | -231.5 | -55.2 | 365.1 | 351.5 | 13.57 | 26.898 | | | |
| 3,200.0 | 3,152.5 | 3,173.9 | 3,162.7 | 10.5 | 7.1 | -150.01 | -240.1 | -58.3 | 380.6 | 366.6 | 14.03 | 27.131 | | | |
| 3,300.0 | 3,250.3 | 3,272.7 | 3,261.0 | 10.9 | 7.3 | -150.24 | -248.7 | -61.3 | 396.2 | 381.7 | 14.49 | 27.350 | | | |
| 3,400.0 | 3,348.1 | 3,371.5 | 3,359.4 | 11.3 | 7.6 | -150.46 | -257.4 | -64.4 | 411.8 | 396.8 | 14.94 | 27.557 | | | |
| 3,500.0 | 3,445.9 | 3,470.2 | 3,457.7 | 11.7 | 7.8 | -150.65 | -266.0 | -67.4 | 427.4 | 412.0 | 15.40 | 27.751 | | | |
| 3,600.0 | 3,543.7 | 3,569.0 | 3,556.1 | 12.1 | 8.0 | -150.84 | -274.6 | -70.5 | 443.0 | 427.1 | 15.86 | 27.935 | | | |
| 3,700.0 | 3,641.5 | 3,667.8 | 3,654.4 | 12.5 | 8.3 | -151.01 | -283.2 | -73.5 | 458.6 | 442.2 | 16.31 | 28.108 | | | |
| 3,800.0 | 3,739.3 | 3,766.5 | 3,752.8 | 12.9 | 8.5 | -151.17 | -291.8 | -76.6 | 474.2 | 457.4 | 16.77 | 28.273 | | | |
| 3,900.0 | 3,837.0 | 3,865.3 | 3,851.1 | 13.3 | 8.7 | -151.32 | -300.5 | -79.6 | 489.8 | 472.5 | 17.23 | 28.429 | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3N-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.00 | 0.0 | 28.0 | 28.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 90.00 | 0.0 | 28.0 | 28.0 | 27.7 | 0.30 | 92.126 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.00 | 0.0 | 28.0 | 28.0 | 27.3 | 0.65 | 42.861 | CC |
| 227.8 | 227.8 | 227.8 | 227.8 | 0.4 | 0.4 | -153.19 | 0.0 | 28.0 | 28.0 | 27.3 | 0.75 | 37.346 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -153.36 | 0.0 | 28.0 | 28.2 | 27.2 | 1.00 | 28.121 | ES |
| 400.0 | 400.0 | 399.9 | 399.9 | 0.7 | 0.7 | -153.21 | -0.9 | 28.1 | 29.9 | 28.5 | 1.35 | 22.123 | |
| 500.0 | 499.9 | 499.7 | 499.7 | 0.9 | 0.9 | -151.50 | -3.4 | 28.7 | 33.5 | 31.8 | 1.71 | 19.665 | |
| 600.0 | 599.8 | 599.4 | 599.2 | 1.1 | 1.0 | -148.92 | -7.7 | 29.5 | 39.2 | 37.1 | 2.07 | 18.929 | SF |
| 700.0 | 699.5 | 698.8 | 698.5 | 1.3 | 1.2 | -146.11 | -13.6 | 30.7 | 46.8 | 44.4 | 2.45 | 19.144 | |
| 800.0 | 799.2 | 798.0 | 797.4 | 1.5 | 1.4 | -143.46 | -21.2 | 32.2 | 56.6 | 53.7 | 2.84 | 19.913 | |
| 900.0 | 898.6 | 897.2 | 896.1 | 1.7 | 1.7 | -141.37 | -30.2 | 34.0 | 68.3 | 65.0 | 3.25 | 21.000 | |
| 1,000.0 | 997.9 | 996.3 | 994.8 | 2.0 | 1.9 | -140.57 | -39.3 | 35.8 | 81.5 | 77.8 | 3.68 | 22.163 | |
| 1,100.0 | 1,096.9 | 1,095.2 | 1,093.3 | 2.3 | 2.1 | -140.63 | -48.4 | 37.7 | 96.0 | 91.9 | 4.11 | 23.352 | |
| 1,200.0 | 1,195.7 | 1,194.0 | 1,191.6 | 2.6 | 2.3 | -141.21 | -57.5 | 39.5 | 111.9 | 107.3 | 4.55 | 24.560 | |
| 1,300.0 | 1,294.1 | 1,292.4 | 1,289.6 | 2.9 | 2.6 | -142.11 | -66.5 | 41.3 | 129.1 | 124.1 | 5.01 | 25.789 | |
| 1,400.0 | 1,392.3 | 1,390.6 | 1,387.4 | 3.3 | 2.8 | -143.17 | -75.5 | 43.1 | 147.7 | 142.3 | 5.46 | 27.044 | |
| 1,500.0 | 1,490.1 | 1,488.6 | 1,484.9 | 3.6 | 3.0 | -144.34 | -84.5 | 44.9 | 167.7 | 161.7 | 5.92 | 28.309 | |
| 1,600.0 | 1,587.9 | 1,586.5 | 1,582.4 | 4.0 | 3.3 | -145.37 | -93.5 | 46.7 | 187.9 | 181.5 | 6.39 | 29.421 | |
| 1,700.0 | 1,685.7 | 1,684.3 | 1,679.8 | 4.4 | 3.5 | -146.20 | -102.5 | 48.5 | 208.2 | 201.3 | 6.85 | 30.387 | |
| 1,800.0 | 1,783.5 | 1,782.2 | 1,777.3 | 4.8 | 3.7 | -146.88 | -111.5 | 50.3 | 228.5 | 221.2 | 7.32 | 31.234 | |
| 1,900.0 | 1,881.3 | 1,880.1 | 1,874.7 | 5.2 | 3.9 | -147.45 | -120.5 | 52.1 | 248.8 | 241.1 | 7.78 | 31.981 | |
| 2,000.0 | 1,979.1 | 1,978.0 | 1,972.2 | 5.6 | 4.2 | -147.93 | -129.5 | 53.9 | 269.2 | 261.0 | 8.25 | 32.644 | |
| 2,100.0 | 2,076.9 | 2,075.9 | 2,069.6 | 6.0 | 4.4 | -148.35 | -138.5 | 55.7 | 289.6 | 280.9 | 8.71 | 33.238 | |
| 2,200.0 | 2,174.7 | 2,173.7 | 2,167.1 | 6.4 | 4.6 | -148.71 | -147.5 | 57.5 | 310.0 | 300.8 | 9.18 | 33.772 | |
| 2,300.0 | 2,272.4 | 2,271.6 | 2,264.5 | 6.8 | 4.9 | -149.03 | -156.5 | 59.3 | 330.4 | 320.7 | 9.64 | 34.254 | |
| 2,400.0 | 2,370.2 | 2,369.5 | 2,362.0 | 7.2 | 5.1 | -149.31 | -165.5 | 61.1 | 350.8 | 340.7 | 10.11 | 34.693 | |
| 2,500.0 | 2,468.0 | 2,467.4 | 2,459.4 | 7.6 | 5.3 | -149.55 | -174.5 | 62.9 | 371.2 | 360.6 | 10.58 | 35.092 | |
| 2,600.0 | 2,565.8 | 2,565.3 | 2,556.9 | 8.0 | 5.6 | -149.78 | -183.5 | 64.7 | 391.6 | 380.6 | 11.04 | 35.458 | |
| 2,700.0 | 2,663.6 | 2,663.2 | 2,654.3 | 8.4 | 5.8 | -149.98 | -192.5 | 66.5 | 412.0 | 400.5 | 11.51 | 35.795 | |
| 2,800.0 | 2,761.4 | 2,761.0 | 2,751.8 | 8.8 | 6.0 | -150.16 | -201.5 | 68.3 | 432.5 | 420.5 | 11.98 | 36.105 | |
| 2,900.0 | 2,859.2 | 2,858.9 | 2,849.2 | 9.3 | 6.3 | -150.32 | -210.5 | 70.1 | 452.9 | 440.5 | 12.45 | 36.392 | |
| 3,000.0 | 2,957.0 | 2,956.8 | 2,946.7 | 9.7 | 6.5 | -150.48 | -219.5 | 71.9 | 473.3 | 460.4 | 12.91 | 36.658 | |
| 3,100.0 | 3,054.7 | 3,054.7 | 3,044.1 | 10.1 | 6.7 | -150.61 | -228.5 | 73.7 | 493.8 | 480.4 | 13.38 | 36.906 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3O-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 96.19 | -3.6 | 33.6 | 33.8 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 96.19 | -3.6 | 33.6 | 33.8 | 33.5 | 0.30 | 111.199 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 96.19 | -3.6 | 33.6 | 33.8 | 33.1 | 0.65 | 51.735 CC | | |
| 227.8 | 227.8 | 227.8 | 227.8 | 0.4 | 0.4 | -147.00 | -3.6 | 33.6 | 33.8 | 33.0 | 0.75 | 45.079 ES | | |
| 300.0 | 300.0 | 299.8 | 299.8 | 0.5 | 0.5 | -146.90 | -3.8 | 33.7 | 34.1 | 33.1 | 1.00 | 34.050 | | |
| 400.0 | 400.0 | 399.3 | 399.3 | 0.7 | 0.7 | -146.40 | -5.2 | 34.7 | 36.8 | 35.4 | 1.35 | 27.199 | | |
| 500.0 | 499.9 | 498.7 | 498.6 | 0.9 | 0.9 | -145.58 | -8.0 | 36.8 | 42.1 | 40.4 | 1.71 | 24.666 | | |
| 600.0 | 599.8 | 597.8 | 597.6 | 1.1 | 1.0 | -144.67 | -12.1 | 39.9 | 50.0 | 48.0 | 2.07 | 24.213 SF | | |
| 700.0 | 699.5 | 696.6 | 696.1 | 1.3 | 1.2 | -143.82 | -17.6 | 44.0 | 60.6 | 58.2 | 2.44 | 24.890 | | |
| 800.0 | 799.2 | 794.9 | 794.0 | 1.5 | 1.5 | -143.09 | -24.4 | 49.1 | 73.9 | 71.1 | 2.82 | 26.217 | | |
| 900.0 | 898.6 | 892.7 | 891.3 | 1.7 | 1.7 | -142.48 | -32.4 | 55.2 | 89.7 | 86.5 | 3.21 | 27.927 | | |
| 1,000.0 | 997.9 | 991.1 | 989.1 | 2.0 | 1.9 | -142.33 | -41.1 | 61.7 | 107.5 | 103.9 | 3.62 | 29.684 | | |
| 1,100.0 | 1,096.9 | 1,089.2 | 1,086.7 | 2.3 | 2.2 | -142.67 | -49.8 | 68.2 | 126.6 | 122.6 | 4.04 | 31.347 | | |
| 1,200.0 | 1,195.7 | 1,187.1 | 1,183.9 | 2.6 | 2.4 | -143.30 | -58.5 | 74.7 | 147.1 | 142.6 | 4.47 | 32.939 | | |
| 1,300.0 | 1,294.1 | 1,284.6 | 1,280.9 | 2.9 | 2.7 | -144.10 | -67.1 | 81.2 | 169.0 | 164.1 | 4.90 | 34.481 | | |
| 1,400.0 | 1,392.3 | 1,381.8 | 1,377.5 | 3.3 | 2.9 | -144.98 | -75.7 | 87.6 | 192.3 | 187.0 | 5.34 | 35.990 | | |
| 1,500.0 | 1,490.1 | 1,478.7 | 1,473.7 | 3.6 | 3.2 | -145.95 | -84.3 | 94.1 | 217.0 | 211.2 | 5.79 | 37.456 | | |
| 1,600.0 | 1,587.9 | 1,575.5 | 1,569.9 | 4.0 | 3.4 | -146.82 | -92.8 | 100.5 | 241.9 | 235.6 | 6.25 | 38.725 | | |
| 1,700.0 | 1,685.7 | 1,672.2 | 1,666.1 | 4.4 | 3.7 | -147.52 | -101.4 | 106.9 | 266.9 | 260.2 | 6.70 | 39.823 | | |
| 1,800.0 | 1,783.5 | 1,769.0 | 1,762.3 | 4.8 | 3.9 | -148.11 | -110.0 | 113.3 | 291.9 | 284.7 | 7.16 | 40.782 | | |
| 1,900.0 | 1,881.3 | 1,865.8 | 1,858.5 | 5.2 | 4.2 | -148.60 | -118.5 | 119.8 | 316.9 | 309.3 | 7.61 | 41.627 | | |
| 2,000.0 | 1,979.1 | 1,962.6 | 1,954.7 | 5.6 | 4.4 | -149.03 | -127.1 | 126.2 | 341.9 | 333.9 | 8.07 | 42.376 | | |
| 2,100.0 | 2,076.9 | 2,059.4 | 2,050.9 | 6.0 | 4.6 | -149.39 | -135.6 | 132.6 | 367.0 | 358.5 | 8.53 | 43.044 | | |
| 2,200.0 | 2,174.7 | 2,156.2 | 2,147.1 | 6.4 | 4.9 | -149.71 | -144.2 | 139.0 | 392.1 | 383.1 | 8.98 | 43.644 | | |
| 2,300.0 | 2,272.4 | 2,252.9 | 2,243.3 | 6.8 | 5.1 | -149.99 | -152.8 | 145.4 | 417.1 | 407.7 | 9.44 | 44.186 | | |
| 2,400.0 | 2,370.2 | 2,349.7 | 2,339.4 | 7.2 | 5.4 | -150.23 | -161.3 | 151.9 | 442.2 | 432.3 | 9.90 | 44.678 | | |
| 2,500.0 | 2,468.0 | 2,446.5 | 2,435.6 | 7.6 | 5.6 | -150.46 | -169.9 | 158.3 | 467.3 | 457.0 | 10.36 | 45.126 | | |
| 2,600.0 | 2,565.8 | 2,543.3 | 2,531.8 | 8.0 | 5.9 | -150.65 | -178.5 | 164.7 | 492.4 | 481.6 | 10.81 | 45.536 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - File 3P-32H-K268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|-------------------|------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty | Separation | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.00 | 0.0 | 39.2 | 39.2 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 90.00 | 0.0 | 39.2 | 39.2 | 38.9 | 0.30 | 128.976 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.00 | 0.0 | 39.2 | 39.2 | 38.5 | 0.65 | 60.005 | CC, ES | |
| 300.0 | 300.0 | 299.4 | 299.4 | 0.5 | 0.5 | -152.54 | -0.5 | 39.9 | 40.1 | 39.1 | 1.00 | 40.005 | | |
| 400.0 | 400.0 | 398.8 | 398.8 | 0.7 | 0.7 | -151.53 | -2.1 | 41.9 | 43.7 | 42.3 | 1.35 | 32.331 | | |
| 500.0 | 499.9 | 497.9 | 497.8 | 0.9 | 0.9 | -150.49 | -4.7 | 45.3 | 50.3 | 48.6 | 1.70 | 29.491 | | |
| 600.0 | 599.8 | 596.7 | 596.4 | 1.1 | 1.1 | -149.58 | -8.4 | 50.0 | 59.8 | 57.7 | 2.06 | 28.987 | SF | |
| 700.0 | 699.5 | 695.0 | 694.3 | 1.3 | 1.3 | -148.86 | -13.1 | 56.1 | 72.2 | 69.8 | 2.43 | 29.759 | | |
| 800.0 | 799.2 | 792.6 | 791.6 | 1.5 | 1.5 | -148.31 | -18.7 | 63.4 | 87.5 | 84.7 | 2.80 | 31.280 | | |
| 900.0 | 898.6 | 889.6 | 887.9 | 1.7 | 1.7 | -147.89 | -25.3 | 72.0 | 105.7 | 102.6 | 3.18 | 33.251 | | |
| 1,000.0 | 997.9 | 985.7 | 983.3 | 2.0 | 2.0 | -147.57 | -32.9 | 81.7 | 126.8 | 123.2 | 3.57 | 35.491 | | |
| 1,100.0 | 1,096.9 | 1,081.2 | 1,077.7 | 2.3 | 2.3 | -147.32 | -41.3 | 92.7 | 150.6 | 146.6 | 3.97 | 37.891 | | |
| 1,200.0 | 1,195.7 | 1,177.8 | 1,173.3 | 2.6 | 2.6 | -147.30 | -50.2 | 104.2 | 176.4 | 172.0 | 4.39 | 40.170 | | |
| 1,300.0 | 1,294.1 | 1,274.1 | 1,268.4 | 2.9 | 2.9 | -147.52 | -59.1 | 115.7 | 203.5 | 198.7 | 4.81 | 42.276 | | |
| 1,400.0 | 1,392.3 | 1,369.9 | 1,363.1 | 3.3 | 3.2 | -147.88 | -67.9 | 127.1 | 232.1 | 226.9 | 5.25 | 44.246 | | |
| 1,500.0 | 1,490.1 | 1,465.2 | 1,457.4 | 3.6 | 3.4 | -148.38 | -76.7 | 138.5 | 262.0 | 256.3 | 5.69 | 46.074 | | |
| 1,600.0 | 1,587.9 | 1,560.6 | 1,551.6 | 4.0 | 3.7 | -148.89 | -85.5 | 149.8 | 292.2 | 286.0 | 6.14 | 47.620 | | |
| 1,700.0 | 1,685.7 | 1,655.9 | 1,645.9 | 4.4 | 4.0 | -149.30 | -94.3 | 161.2 | 322.4 | 315.8 | 6.59 | 48.944 | | |
| 1,800.0 | 1,783.5 | 1,751.2 | 1,740.1 | 4.8 | 4.3 | -149.64 | -103.1 | 172.6 | 352.5 | 345.5 | 7.04 | 50.088 | | |
| 1,900.0 | 1,881.3 | 1,846.5 | 1,834.3 | 5.2 | 4.6 | -149.92 | -111.9 | 183.9 | 382.7 | 375.2 | 7.49 | 51.086 | | |
| 2,000.0 | 1,979.1 | 1,941.8 | 1,928.5 | 5.6 | 4.9 | -150.17 | -120.6 | 195.3 | 412.9 | 405.0 | 7.95 | 51.964 | | |
| 2,100.0 | 2,076.9 | 2,037.1 | 2,022.8 | 6.0 | 5.2 | -150.38 | -129.4 | 206.7 | 443.2 | 434.8 | 8.40 | 52.742 | | |
| 2,200.0 | 2,174.7 | 2,132.5 | 2,117.0 | 6.4 | 5.5 | -150.57 | -138.2 | 218.0 | 473.4 | 464.5 | 8.86 | 53.437 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 4876-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 | | |
| 3,700.0 | 3,641.5 | 3,613.5 | 3,613.5 | 12.5 | 6.3 | 56.18 | -29.1 | -969.1 | 498.9 | 481.7 | 17.28 | 28.879 | | |
| 3,800.0 | 3,739.3 | 3,711.3 | 3,711.3 | 12.9 | 6.5 | 58.19 | -29.1 | -969.1 | 487.4 | 469.4 | 17.97 | 27.118 | | |
| 3,900.0 | 3,837.0 | 3,809.0 | 3,809.0 | 13.3 | 6.6 | 60.29 | -29.1 | -969.1 | 476.5 | 457.9 | 18.68 | 25.506 | | |
| 4,000.0 | 3,934.8 | 3,906.8 | 3,906.8 | 13.7 | 6.8 | 62.48 | -29.1 | -969.1 | 466.3 | 446.9 | 19.40 | 24.036 | | |
| 4,100.0 | 4,032.6 | 4,004.6 | 4,004.6 | 14.1 | 7.0 | 64.77 | -29.1 | -969.1 | 456.9 | 436.8 | 20.13 | 22.700 | | |
| 4,200.0 | 4,130.4 | 4,102.4 | 4,102.4 | 14.6 | 7.2 | 67.14 | -29.1 | -969.1 | 448.2 | 427.3 | 20.86 | 21.489 | | |
| 4,300.0 | 4,228.2 | 4,200.2 | 4,200.2 | 15.0 | 7.3 | 69.60 | -29.1 | -969.1 | 440.3 | 418.8 | 21.59 | 20.399 | | |
| 4,400.0 | 4,326.0 | 4,298.0 | 4,298.0 | 15.4 | 7.5 | 72.14 | -29.1 | -969.1 | 433.3 | 411.0 | 22.31 | 19.421 | | |
| 4,500.0 | 4,423.8 | 4,395.8 | 4,395.8 | 15.8 | 7.7 | 74.76 | -29.1 | -969.1 | 427.3 | 404.2 | 23.03 | 18.551 | | |
| 4,600.0 | 4,521.6 | 4,493.6 | 4,493.6 | 16.2 | 7.8 | 77.44 | -29.1 | -969.1 | 422.1 | 398.4 | 23.74 | 17.782 | | |
| 4,700.0 | 4,619.3 | 4,591.3 | 4,591.3 | 16.6 | 8.0 | 80.18 | -29.1 | -969.1 | 418.0 | 393.6 | 24.43 | 17.110 | | |
| 4,800.0 | 4,717.1 | 4,689.1 | 4,689.1 | 17.0 | 8.2 | 82.97 | -29.1 | -969.1 | 414.8 | 389.7 | 25.10 | 16.530 | | |
| 4,900.0 | 4,814.9 | 4,786.9 | 4,786.9 | 17.4 | 8.4 | 85.79 | -29.1 | -969.1 | 412.7 | 387.0 | 25.74 | 16.036 | | |
| 4,984.6 | 4,897.7 | 4,869.7 | 4,869.7 | 17.8 | 8.5 | 88.19 | -29.1 | -969.1 | 411.8 | 385.5 | 26.26 | 15.682 CC | | |
| 5,000.0 | 4,912.7 | 4,876.0 | 4,876.0 | 17.8 | 8.5 | 88.37 | -29.1 | -969.1 | 411.8 | 385.5 | 26.33 | 15.637 ES, SF | | |
| 5,100.0 | 5,010.5 | 4,876.0 | 4,876.0 | 18.2 | 8.5 | 88.37 | -29.1 | -969.1 | 425.3 | 398.5 | 26.74 | 15.902 | | |
| 5,200.0 | 5,108.3 | 4,876.0 | 4,876.0 | 18.6 | 8.5 | 88.37 | -29.1 | -969.1 | 460.6 | 433.4 | 27.15 | 16.963 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------|--------------------|--------|
| Survey Program: 4996-MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.05 | 182.1 | 316.1 | 364.9 | | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.2 | 0.2 | 60.05 | 182.1 | 316.1 | 364.9 | 364.5 | 0.32 | 1,125.353 | | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | 60.05 | 182.1 | 316.1 | 364.9 | 364.2 | 0.67 | 542.247 CC | | | |
| 227.8 | 227.8 | 226.8 | 226.8 | 0.4 | 0.4 | 176.89 | 182.1 | 316.1 | 364.9 | 364.1 | 0.77 | 474.050 | | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 176.89 | 182.1 | 316.1 | 365.1 | 364.1 | 1.02 | 357.397 ES | | | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.7 | 0.7 | 176.91 | 182.1 | 316.1 | 366.8 | 365.4 | 1.37 | 267.777 | | | |
| 500.0 | 499.9 | 498.9 | 498.9 | 0.9 | 0.9 | 176.94 | 182.1 | 316.1 | 370.3 | 368.6 | 1.72 | 215.564 | | | |
| 600.0 | 599.8 | 598.8 | 598.8 | 1.1 | 1.0 | 176.98 | 182.1 | 316.1 | 375.5 | 373.5 | 2.07 | 181.835 | | | |
| 700.0 | 699.5 | 698.5 | 698.5 | 1.3 | 1.2 | 177.03 | 182.1 | 316.1 | 382.5 | 380.1 | 2.41 | 158.590 | | | |
| 800.0 | 799.2 | 798.2 | 798.2 | 1.5 | 1.4 | 177.09 | 182.1 | 316.1 | 391.2 | 388.4 | 2.76 | 141.863 | | | |
| 900.0 | 898.6 | 897.6 | 897.6 | 1.7 | 1.6 | 177.16 | 182.1 | 316.1 | 401.6 | 398.5 | 3.10 | 129.468 | | | |
| 1,000.0 | 997.9 | 996.9 | 996.9 | 2.0 | 1.7 | 177.24 | 182.1 | 316.1 | 413.8 | 410.4 | 3.45 | 120.098 | | | |
| 1,100.0 | 1,096.9 | 1,095.9 | 1,095.9 | 2.3 | 1.9 | 177.32 | 182.1 | 316.1 | 427.7 | 423.9 | 3.79 | 112.926 | | | |
| 1,200.0 | 1,195.7 | 1,194.7 | 1,194.7 | 2.6 | 2.1 | 177.41 | 182.1 | 316.1 | 443.3 | 439.2 | 4.13 | 107.400 | | | |
| 1,300.0 | 1,294.1 | 1,293.1 | 1,293.1 | 2.9 | 2.3 | 177.50 | 182.1 | 316.1 | 460.7 | 456.2 | 4.47 | 103.143 | | | |
| 1,400.0 | 1,392.3 | 1,391.3 | 1,391.3 | 3.3 | 2.4 | 177.59 | 182.1 | 316.1 | 479.8 | 474.9 | 4.80 | 99.883 SF | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SURVEYS | | | | | | | | | | | Offset Site Error: | | 0.0 ft | |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|------------|--|
| Survey Program: 5035-Geolink MWD | | | | | | | | | | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | | | | |
| 4,500.0 | 4,423.8 | 4,401.8 | 4,401.8 | 15.8 | 7.7 | -27.43 | -737.6 | -969.2 | 487.4 | 469.7 | 17.67 | 27.587 | | |
| 4,600.0 | 4,521.6 | 4,499.6 | 4,499.6 | 16.2 | 7.9 | -28.60 | -737.6 | -969.2 | 468.8 | 450.6 | 18.24 | 25.699 | | |
| 4,700.0 | 4,619.3 | 4,597.3 | 4,597.3 | 16.6 | 8.0 | -29.87 | -737.6 | -969.2 | 450.5 | 431.6 | 18.84 | 23.906 | | |
| 4,800.0 | 4,717.1 | 4,695.1 | 4,695.1 | 17.0 | 8.2 | -31.24 | -737.6 | -969.2 | 432.4 | 412.9 | 19.47 | 22.203 | | |
| 4,900.0 | 4,814.9 | 4,792.9 | 4,792.9 | 17.4 | 8.4 | -32.73 | -737.6 | -969.2 | 414.5 | 394.4 | 20.13 | 20.588 | | |
| 5,000.0 | 4,912.7 | 4,890.7 | 4,890.7 | 17.8 | 8.5 | -34.35 | -737.6 | -969.2 | 397.0 | 376.1 | 20.83 | 19.059 | | |
| 5,100.0 | 5,010.5 | 4,988.5 | 4,988.5 | 18.2 | 8.7 | -36.12 | -737.6 | -969.2 | 379.7 | 358.2 | 21.56 | 17.613 | | |
| 5,200.0 | 5,108.3 | 5,035.0 | 5,035.0 | 18.6 | 8.8 | -37.02 | -737.6 | -969.2 | 366.5 | 344.5 | 22.07 | 16.606 | | |
| 5,210.1 | 5,118.2 | 5,035.0 | 5,035.0 | 18.7 | 8.8 | -37.02 | -737.6 | -969.2 | 366.4 | 344.3 | 22.10 | 16.578 | CC, ES, SF | |
| 5,300.0 | 5,206.1 | 5,035.0 | 5,035.0 | 19.1 | 8.8 | -37.02 | -737.6 | -969.2 | 377.3 | 354.9 | 22.36 | 16.875 | | |
| 5,400.0 | 5,303.9 | 5,035.0 | 5,035.0 | 19.5 | 8.8 | -37.02 | -737.6 | -969.2 | 412.7 | 390.0 | 22.64 | 18.229 | | |
| 5,500.0 | 5,401.7 | 5,035.0 | 5,035.0 | 19.9 | 8.8 | -37.02 | -737.6 | -969.2 | 467.2 | 444.3 | 22.92 | 20.382 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------------------------|--|
| Survey Program: 8140-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) | | | | |
| 2,200.0 | 2,174.7 | 2,163.7 | 2,163.7 | 6.4 | 3.8 | -32.10 | -543.5 | -508.1 | 488.8 | 480.3 | 8.44 | 57.933 | | |
| 2,300.0 | 2,272.4 | 2,261.4 | 2,261.4 | 6.8 | 3.9 | -33.44 | -543.5 | -508.1 | 471.1 | 462.1 | 8.93 | 52.750 | | |
| 2,400.0 | 2,370.2 | 2,359.2 | 2,359.2 | 7.2 | 4.1 | -34.88 | -543.5 | -508.1 | 453.6 | 444.2 | 9.44 | 48.049 | | |
| 2,500.0 | 2,468.0 | 2,457.0 | 2,457.0 | 7.6 | 4.3 | -36.44 | -543.5 | -508.1 | 436.5 | 426.5 | 9.97 | 43.777 | | |
| 2,600.0 | 2,565.8 | 2,554.8 | 2,554.8 | 8.0 | 4.5 | -38.13 | -543.5 | -508.1 | 419.7 | 409.2 | 10.52 | 39.890 | | |
| 2,700.0 | 2,663.6 | 2,652.6 | 2,652.6 | 8.4 | 4.6 | -39.94 | -543.5 | -508.1 | 403.3 | 392.2 | 11.10 | 36.350 | | |
| 2,800.0 | 2,761.4 | 2,750.4 | 2,750.4 | 8.8 | 4.8 | -41.91 | -543.5 | -508.1 | 387.4 | 375.7 | 11.69 | 33.126 | | |
| 2,900.0 | 2,859.2 | 2,848.2 | 2,848.2 | 9.3 | 5.0 | -44.04 | -543.5 | -508.1 | 371.9 | 359.6 | 12.32 | 30.191 | | |
| 3,000.0 | 2,957.0 | 2,946.0 | 2,946.0 | 9.7 | 5.1 | -46.35 | -543.5 | -508.1 | 357.0 | 344.0 | 12.97 | 27.525 | | |
| 3,100.0 | 3,054.7 | 3,043.7 | 3,043.7 | 10.1 | 5.3 | -48.85 | -543.5 | -508.1 | 342.7 | 329.1 | 13.65 | 25.108 | | |
| 3,200.0 | 3,152.5 | 3,141.5 | 3,141.5 | 10.5 | 5.5 | -51.55 | -543.5 | -508.1 | 329.2 | 314.8 | 14.36 | 22.926 | | |
| 3,300.0 | 3,250.3 | 3,239.3 | 3,239.3 | 10.9 | 5.7 | -54.48 | -543.5 | -508.1 | 316.4 | 301.3 | 15.09 | 20.965 | | |
| 3,400.0 | 3,348.1 | 3,337.1 | 3,337.1 | 11.3 | 5.8 | -57.63 | -543.5 | -508.1 | 304.5 | 288.7 | 15.85 | 19.214 | | |
| 3,500.0 | 3,445.9 | 3,434.9 | 3,434.9 | 11.7 | 6.0 | -61.02 | -543.5 | -508.1 | 293.7 | 277.1 | 16.63 | 17.664 | | |
| 3,600.0 | 3,543.7 | 3,532.7 | 3,532.7 | 12.1 | 6.2 | -64.65 | -543.5 | -508.1 | 284.0 | 266.5 | 17.41 | 16.305 | | |
| 3,700.0 | 3,641.5 | 3,630.5 | 3,630.5 | 12.5 | 6.3 | -68.51 | -543.5 | -508.1 | 275.5 | 257.3 | 18.21 | 15.131 | | |
| 3,800.0 | 3,739.3 | 3,728.3 | 3,728.3 | 12.9 | 6.5 | -72.59 | -543.5 | -508.1 | 268.4 | 249.4 | 18.99 | 14.134 | | |
| 3,900.0 | 3,837.0 | 3,826.0 | 3,826.0 | 13.3 | 6.7 | -76.85 | -543.5 | -508.1 | 262.7 | 243.0 | 19.75 | 13.306 | | |
| 4,000.0 | 3,934.8 | 3,923.8 | 3,923.8 | 13.7 | 6.8 | -81.27 | -543.5 | -508.1 | 258.7 | 238.2 | 20.47 | 12.638 | | |
| 4,100.0 | 4,032.6 | 4,021.6 | 4,021.6 | 14.1 | 7.0 | -85.80 | -543.5 | -508.1 | 256.3 | 235.1 | 21.14 | 12.123 | | |
| 4,191.8 | 4,122.4 | 4,111.4 | 4,111.4 | 14.5 | 7.2 | -90.00 | -543.5 | -508.1 | 255.5 | 233.8 | 21.70 | 11.777 CC | | |
| 4,200.0 | 4,130.4 | 4,119.4 | 4,119.4 | 14.6 | 7.2 | -90.37 | -543.5 | -508.1 | 255.6 | 233.8 | 21.75 | 11.751 ES | | |
| 4,300.0 | 4,228.2 | 4,217.2 | 4,217.2 | 15.0 | 7.4 | -94.95 | -543.5 | -508.1 | 256.5 | 234.3 | 22.28 | 11.513 | | |
| 4,400.0 | 4,326.0 | 4,315.0 | 4,315.0 | 15.4 | 7.5 | -99.46 | -543.5 | -508.1 | 259.2 | 236.5 | 22.75 | 11.397 | | |
| 4,500.0 | 4,423.8 | 4,412.8 | 4,412.8 | 15.8 | 7.7 | -103.86 | -543.5 | -508.1 | 263.6 | 240.4 | 23.13 | 11.392 SF | | |
| 4,600.0 | 4,521.6 | 4,510.6 | 4,510.6 | 16.2 | 7.9 | -108.09 | -543.5 | -508.1 | 269.4 | 246.0 | 23.45 | 11.487 | | |
| 4,700.0 | 4,619.3 | 4,608.3 | 4,608.3 | 16.6 | 8.0 | -112.13 | -543.5 | -508.1 | 276.8 | 253.1 | 23.71 | 11.672 | | |
| 4,800.0 | 4,717.1 | 4,706.1 | 4,706.1 | 17.0 | 8.2 | -115.96 | -543.5 | -508.1 | 285.5 | 261.5 | 23.92 | 11.934 | | |
| 4,900.0 | 4,814.9 | 4,803.9 | 4,803.9 | 17.4 | 8.4 | -119.55 | -543.5 | -508.1 | 295.4 | 271.3 | 24.09 | 12.263 | | |
| 5,000.0 | 4,912.7 | 4,901.7 | 4,901.7 | 17.8 | 8.6 | -122.90 | -543.5 | -508.1 | 306.4 | 282.2 | 24.22 | 12.650 | | |
| 5,100.0 | 5,010.5 | 4,999.5 | 4,999.5 | 18.2 | 8.7 | -126.01 | -543.5 | -508.1 | 318.4 | 294.1 | 24.34 | 13.084 | | |
| 5,200.0 | 5,108.3 | 5,097.3 | 5,097.3 | 18.6 | 8.9 | -128.90 | -543.5 | -508.1 | 331.3 | 306.9 | 24.44 | 13.558 | | |
| 5,300.0 | 5,206.1 | 5,195.1 | 5,195.1 | 19.1 | 9.1 | -131.57 | -543.5 | -508.1 | 345.0 | 320.5 | 24.53 | 14.063 | | |
| 5,400.0 | 5,303.9 | 5,292.9 | 5,292.9 | 19.5 | 9.2 | -134.04 | -543.5 | -508.1 | 359.4 | 334.8 | 24.63 | 14.594 | | |
| 5,500.0 | 5,401.7 | 5,390.7 | 5,390.7 | 19.9 | 9.4 | -136.32 | -543.5 | -508.1 | 374.4 | 349.7 | 24.72 | 15.144 | | |
| 5,600.0 | 5,499.4 | 5,488.4 | 5,488.4 | 20.3 | 9.6 | -138.42 | -543.5 | -508.1 | 390.0 | 365.1 | 24.83 | 15.708 | | |
| 5,700.0 | 5,597.2 | 5,586.2 | 5,586.2 | 20.7 | 9.7 | -140.36 | -543.5 | -508.1 | 406.0 | 381.1 | 24.93 | 16.282 | | |
| 5,800.0 | 5,695.0 | 5,684.0 | 5,684.0 | 21.1 | 9.9 | -142.16 | -543.5 | -508.1 | 422.4 | 397.4 | 25.05 | 16.863 | | |
| 5,900.0 | 5,792.8 | 5,781.8 | 5,781.8 | 21.5 | 10.1 | -143.82 | -543.5 | -508.1 | 439.3 | 414.1 | 25.18 | 17.446 | | |
| 6,000.0 | 5,890.6 | 5,879.6 | 5,879.6 | 21.9 | 10.3 | -145.36 | -543.5 | -508.1 | 456.5 | 431.1 | 25.32 | 18.029 | | |
| 6,100.0 | 5,988.4 | 5,977.4 | 5,977.4 | 22.3 | 10.4 | -146.79 | -543.5 | -508.1 | 473.9 | 448.5 | 25.47 | 18.610 | | |
| 6,200.0 | 6,086.2 | 6,075.2 | 6,075.2 | 22.7 | 10.6 | -148.11 | -543.5 | -508.1 | 491.7 | 466.1 | 25.63 | 19.188 | | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|
| Survey Program: 8184-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 |
| 9,200.0 | 7,378.0 | 7,355.0 | 7,355.0 | 36.3 | 12.8 | 90.00 | 1,673.5 | -964.0 | 424.9 | 383.2 | 41.70 | 10.189 | |
| 9,300.0 | 7,378.0 | 7,355.0 | 7,355.0 | 37.5 | 12.8 | 90.00 | 1,673.5 | -964.0 | 356.0 | 312.8 | 43.26 | 8.230 | |
| 9,400.0 | 7,378.0 | 7,355.0 | 7,355.0 | 38.8 | 12.8 | 90.00 | 1,673.5 | -964.0 | 304.9 | 260.1 | 44.84 | 6.800 | |
| 9,500.0 | 7,378.0 | 7,355.0 | 7,355.0 | 40.1 | 12.8 | 90.00 | 1,673.5 | -964.0 | 281.4 | 235.0 | 46.44 | 6.060 | |
| 9,518.9 | 7,378.0 | 7,355.0 | 7,355.0 | 40.4 | 12.8 | 90.00 | 1,673.5 | -964.0 | 280.8 | 234.1 | 46.75 | 6.007 CC, ES, SF | |
| 9,600.0 | 7,378.0 | 7,355.0 | 7,355.0 | 41.5 | 12.8 | 90.00 | 1,673.5 | -964.0 | 292.3 | 244.2 | 48.06 | 6.082 | |
| 9,700.0 | 7,378.0 | 7,355.0 | 7,355.0 | 42.9 | 12.8 | 90.00 | 1,673.5 | -964.0 | 334.1 | 284.5 | 49.68 | 6.726 | |
| 9,800.0 | 7,378.0 | 7,355.0 | 7,355.0 | 44.3 | 12.8 | 90.00 | 1,673.5 | -964.0 | 397.3 | 346.0 | 51.32 | 7.742 | |
| 9,900.0 | 7,378.0 | 7,355.0 | 7,355.0 | 45.7 | 12.8 | 90.00 | 1,673.5 | -964.0 | 473.4 | 420.4 | 52.97 | 8.938 | |

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 File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | Offset Site Error: | | 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|------------------|---------|
| Survey Program: 8100-Geolink MWD | | | | | | | | | | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | 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 | | |
| 9,200.0 | 7,378.0 | 7,292.0 | 7,292.0 | 36.3 | 12.7 | 90.00 | 1,684.1 | -954.8 | 438.9 | 397.3 | 41.59 | 10.553 | 6.196 CC, ES, SF | |
| 9,300.0 | 7,378.0 | 7,292.0 | 7,292.0 | 37.5 | 12.7 | 90.00 | 1,684.1 | -954.8 | 369.8 | 326.7 | 43.15 | 8.570 | | |
| 9,400.0 | 7,378.0 | 7,292.0 | 7,292.0 | 38.8 | 12.7 | 90.00 | 1,684.1 | -954.8 | 317.6 | 272.9 | 44.73 | 7.100 | | |
| 9,500.0 | 7,378.0 | 7,292.0 | 7,292.0 | 40.1 | 12.7 | 90.00 | 1,684.1 | -954.8 | 291.5 | 245.2 | 46.33 | 6.292 | | |
| 9,529.5 | 7,378.0 | 7,292.0 | 7,292.0 | 40.5 | 12.7 | 90.00 | 1,684.1 | -954.8 | 290.0 | 243.2 | 46.81 | | | |
| 9,600.0 | 7,378.0 | 7,292.0 | 7,292.0 | 41.5 | 12.7 | 90.00 | 1,684.1 | -954.8 | 298.5 | 250.5 | 47.95 | 6.226 | | |
| 9,700.0 | 7,378.0 | 7,292.0 | 7,292.0 | 42.9 | 12.7 | 90.00 | 1,684.1 | -954.8 | 336.5 | 286.9 | 49.57 | 6.787 | | |
| 9,800.0 | 7,378.0 | 7,292.0 | 7,292.0 | 44.3 | 12.7 | 90.00 | 1,684.1 | -954.8 | 396.6 | 345.4 | 51.21 | 7.745 | | |
| 9,900.0 | 7,378.0 | 7,292.0 | 7,292.0 | 45.7 | 12.7 | 90.00 | 1,684.1 | -954.8 | 470.5 | 417.7 | 52.86 | 8.903 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 119-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 | | |
| 2,600.0 | 2,565.8 | 2,637.1 | 2,591.6 | 8.0 | 8.7 | -1.31 | -395.4 | -757.4 | 489.0 | 476.0 | 13.00 | 37.604 | | |
| 2,700.0 | 2,663.6 | 2,728.8 | 2,679.9 | 8.4 | 9.1 | 1.71 | -372.5 | -766.2 | 465.4 | 451.8 | 13.64 | 34.123 | | |
| 2,800.0 | 2,761.4 | 2,820.0 | 2,767.8 | 8.8 | 9.6 | 5.03 | -349.7 | -775.3 | 443.7 | 429.4 | 14.29 | 31.047 | | |
| 2,900.0 | 2,859.2 | 2,912.8 | 2,857.4 | 9.3 | 10.0 | 8.58 | -327.4 | -784.8 | 424.2 | 409.3 | 14.96 | 28.355 | | |
| 3,000.0 | 2,957.0 | 3,005.8 | 2,947.1 | 9.7 | 10.5 | 12.48 | -304.8 | -794.5 | 406.9 | 391.2 | 15.68 | 25.956 | | |
| 3,100.0 | 3,054.7 | 3,093.0 | 3,030.9 | 10.1 | 10.9 | 16.50 | -283.1 | -804.7 | 392.8 | 376.4 | 16.40 | 23.957 | | |
| 3,200.0 | 3,152.5 | 3,182.9 | 3,117.2 | 10.5 | 11.4 | 20.84 | -261.1 | -816.5 | 382.6 | 365.5 | 17.14 | 22.322 | | |
| 3,300.0 | 3,250.3 | 3,278.6 | 3,209.5 | 10.9 | 11.8 | 25.46 | -239.1 | -829.4 | 375.6 | 357.7 | 17.90 | 20.985 | | |
| 3,400.0 | 3,348.1 | 3,378.6 | 3,306.2 | 11.3 | 12.3 | 30.30 | -216.8 | -841.8 | 370.2 | 351.6 | 18.66 | 19.837 | | |
| 3,500.0 | 3,445.9 | 3,471.7 | 3,396.4 | 11.7 | 12.7 | 34.88 | -196.3 | -852.9 | 367.1 | 347.7 | 19.35 | 18.967 | | |
| 3,551.2 | 3,495.9 | 3,519.6 | 3,442.8 | 11.9 | 13.0 | 37.17 | -186.3 | -858.9 | 366.7 | 347.0 | 19.69 | 18.626 | | |
| 3,600.0 | 3,543.7 | 3,568.2 | 3,490.0 | 12.1 | 13.2 | 39.48 | -176.3 | -864.9 | 366.9 | 346.9 | 20.01 | 18.337 | | |
| 3,700.0 | 3,641.5 | 3,666.2 | 3,585.2 | 12.5 | 13.6 | 44.10 | -156.2 | -876.4 | 368.4 | 347.7 | 20.62 | 17.867 | | |
| 3,800.0 | 3,739.3 | 3,762.0 | 3,678.5 | 12.9 | 14.0 | 48.51 | -137.1 | -887.6 | 372.1 | 350.9 | 21.16 | 17.579 | | |
| 3,900.0 | 3,837.0 | 3,860.9 | 3,774.6 | 13.3 | 14.5 | 53.07 | -116.9 | -898.1 | 377.5 | 355.9 | 21.67 | 17.418 | | |
| 4,000.0 | 3,934.8 | 3,956.9 | 3,868.1 | 13.7 | 14.9 | 57.32 | -97.8 | -908.0 | 384.8 | 362.6 | 22.12 | 17.392 | | |
| 4,100.0 | 4,032.6 | 4,045.9 | 3,954.8 | 14.1 | 15.3 | 61.06 | -80.0 | -918.0 | 394.9 | 372.4 | 22.53 | 17.525 | | |
| 4,200.0 | 4,130.4 | 4,134.3 | 4,040.5 | 14.6 | 15.7 | 64.63 | -61.2 | -928.8 | 408.6 | 385.7 | 22.92 | 17.826 | | |
| 4,300.0 | 4,228.2 | 4,233.8 | 4,136.8 | 15.0 | 16.2 | 68.45 | -39.2 | -941.4 | 425.0 | 401.7 | 23.30 | 18.243 | | |
| 4,400.0 | 4,326.0 | 4,342.5 | 4,242.6 | 15.4 | 16.6 | 72.22 | -17.9 | -953.2 | 440.0 | 416.4 | 23.66 | 18.597 | | |
| 4,500.0 | 4,423.8 | 4,433.8 | 4,331.8 | 15.8 | 17.0 | 75.08 | -0.9 | -963.5 | 456.0 | 432.0 | 24.05 | 18.964 | | |
| 4,600.0 | 4,521.6 | 4,520.0 | 4,415.7 | 16.2 | 17.4 | 77.61 | 15.8 | -973.7 | 474.1 | 449.7 | 24.45 | 19.396 | | |
| 4,700.0 | 4,619.3 | 4,604.0 | 4,497.1 | 16.6 | 17.8 | 79.90 | 33.4 | -984.8 | 495.5 | 470.6 | 24.87 | 19.922 | | |
| 7,800.0 | 7,376.2 | 7,530.8 | 7,379.7 | 26.0 | 26.1 | 65.76 | 381.1 | -1,167.4 | 433.3 | 398.7 | 34.68 | 12.495 | | |
| 7,900.0 | 7,378.0 | 7,533.7 | 7,382.6 | 26.1 | 26.1 | 87.51 | 381.1 | -1,167.4 | 335.6 | 297.8 | 37.72 | 8.895 | | |
| 8,000.0 | 7,378.0 | 7,534.9 | 7,383.9 | 26.3 | 26.1 | 88.41 | 381.1 | -1,167.5 | 239.4 | 201.1 | 38.22 | 6.263 | | |
| 8,100.0 | 7,378.0 | 7,536.1 | 7,385.1 | 26.7 | 26.1 | 89.32 | 381.1 | -1,167.5 | 148.3 | 109.4 | 38.90 | 3.812 | | |
| 8,200.0 | 7,378.0 | 7,537.4 | 7,386.3 | 27.1 | 26.1 | 90.23 | 381.1 | -1,167.5 | 81.8 | 42.0 | 39.74 | 2.058 | | |
| 8,226.5 | 7,378.0 | 7,537.7 | 7,386.7 | 27.2 | 26.1 | 90.48 | 381.1 | -1,167.5 | 77.4 | 37.4 | 40.01 | 1.934 | CC, ES, SF | |
| 8,300.0 | 7,378.0 | 7,538.6 | 7,387.6 | 27.7 | 26.1 | 91.16 | 381.2 | -1,167.5 | 106.7 | 66.0 | 40.72 | 2.620 | | |
| 8,400.0 | 7,378.0 | 7,539.9 | 7,388.8 | 28.3 | 26.1 | 92.10 | 381.2 | -1,167.5 | 189.9 | 148.1 | 41.81 | 4.542 | | |
| 8,500.0 | 7,378.0 | 7,541.2 | 7,390.1 | 29.0 | 26.1 | 93.04 | 381.2 | -1,167.5 | 284.2 | 241.2 | 42.99 | 6.610 | | |
| 8,600.0 | 7,378.0 | 7,542.5 | 7,391.4 | 29.9 | 26.1 | 94.00 | 381.2 | -1,167.5 | 381.4 | 337.1 | 44.24 | 8.620 | | |
| 8,700.0 | 7,378.0 | 7,543.8 | 7,392.7 | 30.8 | 26.1 | 94.96 | 381.2 | -1,167.5 | 479.7 | 434.2 | 45.54 | 10.533 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | | | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-------|------------|----------------------|-----------------------|------------------------|---------------------------|---------|---------------------------|--|
| Survey Program: 8140-MWD | | | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 71.66 | 154.1 | 464.7 | 499.1 | | | | | | | |
| 100.0 | 100.0 | 3.0 | 3.0 | 0.2 | 0.0 | 71.66 | 154.1 | 464.7 | 489.6 | 489.4 | 0.16 | 3,112.798 | | | | |
| 200.0 | 200.0 | 103.0 | 103.0 | 0.3 | 0.2 | 71.66 | 154.1 | 464.7 | 489.6 | 489.1 | 0.51 | 966.894 | CC | | | |
| 227.8 | 227.8 | 130.8 | 130.8 | 0.4 | 0.2 | -171.50 | 154.1 | 464.7 | 489.6 | 489.0 | 0.60 | 811.520 | | | | |
| 300.0 | 300.0 | 203.0 | 203.0 | 0.5 | 0.4 | -171.51 | 154.1 | 464.7 | 489.8 | 488.9 | 0.86 | 572.602 | ES | | | |
| 400.0 | 400.0 | 303.0 | 303.0 | 0.7 | 0.5 | -171.53 | 154.1 | 464.7 | 491.5 | 490.3 | 1.20 | 408.152 | | | | |
| 500.0 | 499.9 | 402.9 | 402.9 | 0.9 | 0.7 | -171.59 | 154.1 | 464.7 | 495.0 | 493.4 | 1.55 | 318.749 | SF | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|--------|
| Survey Program: 8244-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | | | |
| 9,200.0 | 7,378.0 | 7,355.0 | 7,355.0 | 36.3 | 12.8 | 90.00 | 1,673.5 | -970.5 | 420.7 | 379.0 | 41.70 | 10.088 | | |
| 9,300.0 | 7,378.0 | 7,355.0 | 7,355.0 | 37.5 | 12.8 | 90.00 | 1,673.5 | -970.5 | 351.0 | 307.7 | 43.26 | 8.113 | | |
| 9,400.0 | 7,378.0 | 7,355.0 | 7,355.0 | 38.8 | 12.8 | 90.00 | 1,673.5 | -970.5 | 299.0 | 254.2 | 44.84 | 6.668 | | |
| 9,500.0 | 7,378.0 | 7,355.0 | 7,355.0 | 40.1 | 12.8 | 90.00 | 1,673.5 | -970.5 | 275.0 | 228.6 | 46.44 | 5.922 | | |
| 9,518.9 | 7,378.0 | 7,355.0 | 7,355.0 | 40.4 | 12.8 | 90.00 | 1,673.5 | -970.5 | 274.4 | 227.6 | 46.75 | 5.869 CC, ES, SF | | |
| 9,600.0 | 7,378.0 | 7,355.0 | 7,355.0 | 41.5 | 12.8 | 90.00 | 1,673.5 | -970.5 | 286.1 | 238.0 | 48.06 | 5.954 | | |
| 9,700.0 | 7,378.0 | 7,355.0 | 7,355.0 | 42.9 | 12.8 | 90.00 | 1,673.5 | -970.5 | 328.7 | 279.1 | 49.68 | 6.617 | | |
| 9,800.0 | 7,378.0 | 7,355.0 | 7,355.0 | 44.3 | 12.8 | 90.00 | 1,673.5 | -970.5 | 392.8 | 341.5 | 51.32 | 7.654 | | |
| 9,900.0 | 7,378.0 | 7,355.0 | 7,355.0 | 45.7 | 12.8 | 90.00 | 1,673.5 | -970.5 | 469.6 | 416.6 | 52.97 | 8.866 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|---------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 60-MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 0.0 | 0.0 | 3.2 | 3.2 | 0.0 | 0.0 | 67.92 | 185.4 | 457.1 | 493.3 | | | | | | |
| 100.0 | 100.0 | 105.3 | 105.3 | 0.2 | 0.2 | 67.77 | 186.4 | 456.1 | 492.8 | 492.5 | 0.31 | 1,593.518 | | | |
| 125.9 | 125.9 | 129.0 | 128.9 | 0.2 | 0.2 | 67.72 | 186.8 | 455.9 | 492.7 | 492.3 | 0.40 | 1,244.459 CC, ES | | | |
| 200.0 | 200.0 | 196.0 | 196.0 | 0.3 | 0.3 | 67.52 | 188.6 | 455.7 | 493.2 | 492.6 | 0.64 | 768.465 | | | |
| 300.0 | 300.0 | 283.0 | 282.9 | 0.5 | 0.5 | -175.99 | 192.2 | 456.7 | 496.2 | 495.2 | 0.98 | 504.942 SF | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R68W (File) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|
| Survey Program: 60-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | | Distance | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning |
| 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 70.16 | 167.6 | 464.4 | 493.7 | | | | |
| 100.0 | 100.0 | 104.9 | 104.9 | 0.2 | 0.2 | 70.22 | 167.0 | 464.3 | 493.4 | 493.1 | 0.31 | 1,606.719 | |
| 188.7 | 188.7 | 191.7 | 191.7 | 0.3 | 0.3 | 70.41 | 165.3 | 464.6 | 493.1 | 492.5 | 0.61 | 803.767 CC | |
| 200.0 | 200.0 | 201.9 | 201.9 | 0.3 | 0.3 | 70.45 | 165.0 | 464.7 | 493.1 | 492.5 | 0.65 | 757.266 ES | |
| 300.0 | 300.0 | 297.9 | 297.7 | 0.5 | 0.5 | -172.16 | 160.7 | 466.8 | 493.9 | 492.9 | 1.01 | 487.242 | |
| 400.0 | 400.0 | 390.3 | 389.8 | 0.7 | 0.7 | -171.29 | 153.9 | 470.7 | 497.3 | 495.9 | 1.39 | 358.198 SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well File 3J-32H-K268 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R68W (File) | MD Reference: | WELL @ 4971.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | File 3J-32H-K268 | 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 @ 4971.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

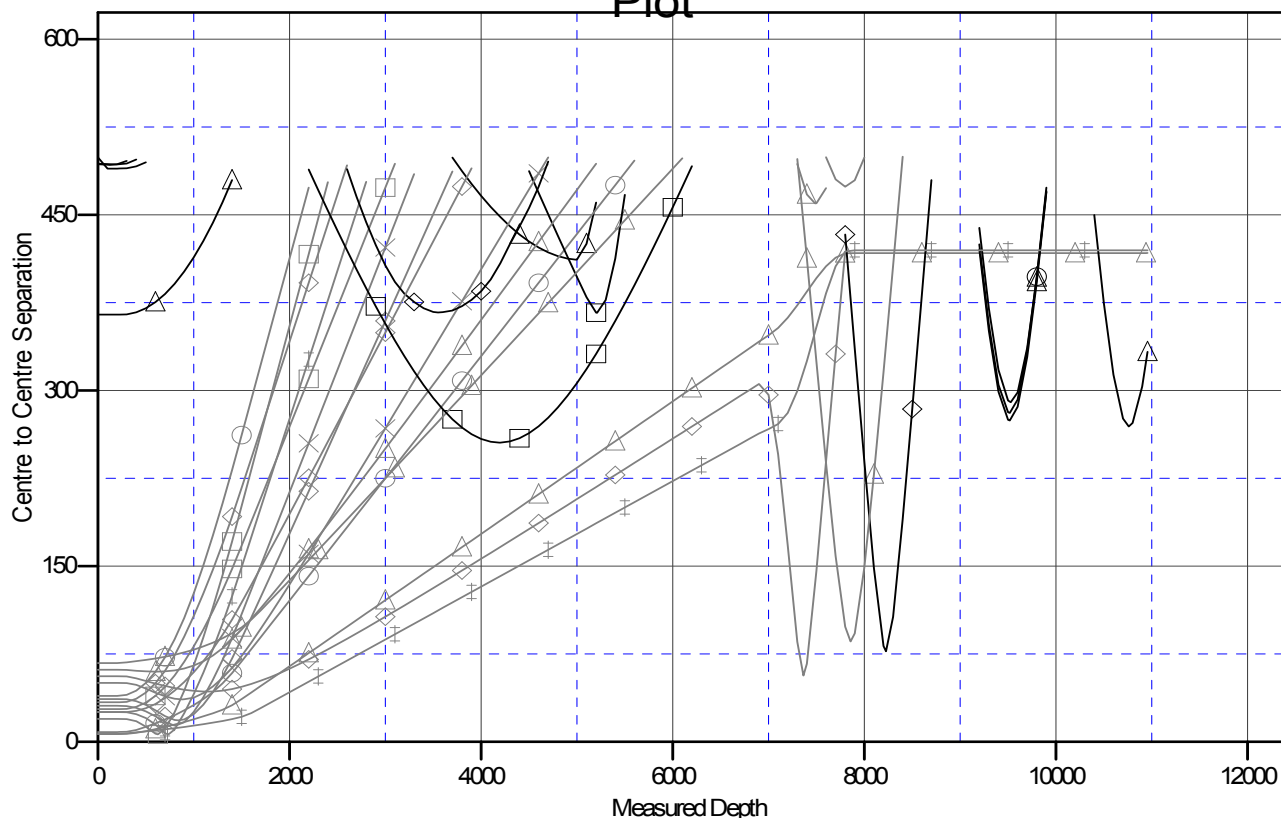
Central Meridian is -105.500000 °

Coordinates are relative to: File 3J-32H-K268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

Ladder Plot



LEGEND

| | | |
|--------------------------------|--|----------------------------------|
| AS TEA WELL, NOSURVEYS V0 | File 3D-32H-K268, Hz, Plan #1 V0 | File 3G-32H-K268, Hz, Plan #1 V0 |
| V0 | File 3K-32H-K268, Hz, Plan #1 V0 | RAY NELSON 23-32 (EXISTING), EI |
| V0 | FEDERAL NOAA 11-32 (EXISTING), ENCANA WELL, NOSURVEYS V0 | RAY NELSON 13-32 (EXISTING), EI |
| V0 | NELSON 4 (EXISTING), TEXAS TEA WELL, NOSURVEYS V0 | File 3M-32H-K268, Hz, Plan #1 V0 |
| NG), ENCANA WELL, SURVEYS V0 | File 3O-32H-K268, Hz, Plan #1 V0 | File 3B-32H-K268, Hz, Plan #1 V0 |
| V0 | File 3P-32H-K268, Hz, Plan #1 V0 | File 3A-32H-K268, Hz, Plan #1 V0 |
| EXAS TEA WELL, NOSURVEYS V0 | RAY NELSON 4-4-32 (EXISTING), ENCANA WELL, SURVEYS V0 | File 3I-32H-K268, Hz, Plan #1 V0 |
| NG), ENCANA WELL, NOSURVEYS V0 | RAY NELSON 2-4-32 (EXISTING), ENCANA WELL, NOSURVEYS V0 | File 3H-32H-K268, Hz, Plan #1 V0 |
| V0 | RAY NELSON 12-32 (EXISTING), ENCANA WELL, NOSURVEYS V0 | NELSON E UNIT 1 (EXISTING), ENC |

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