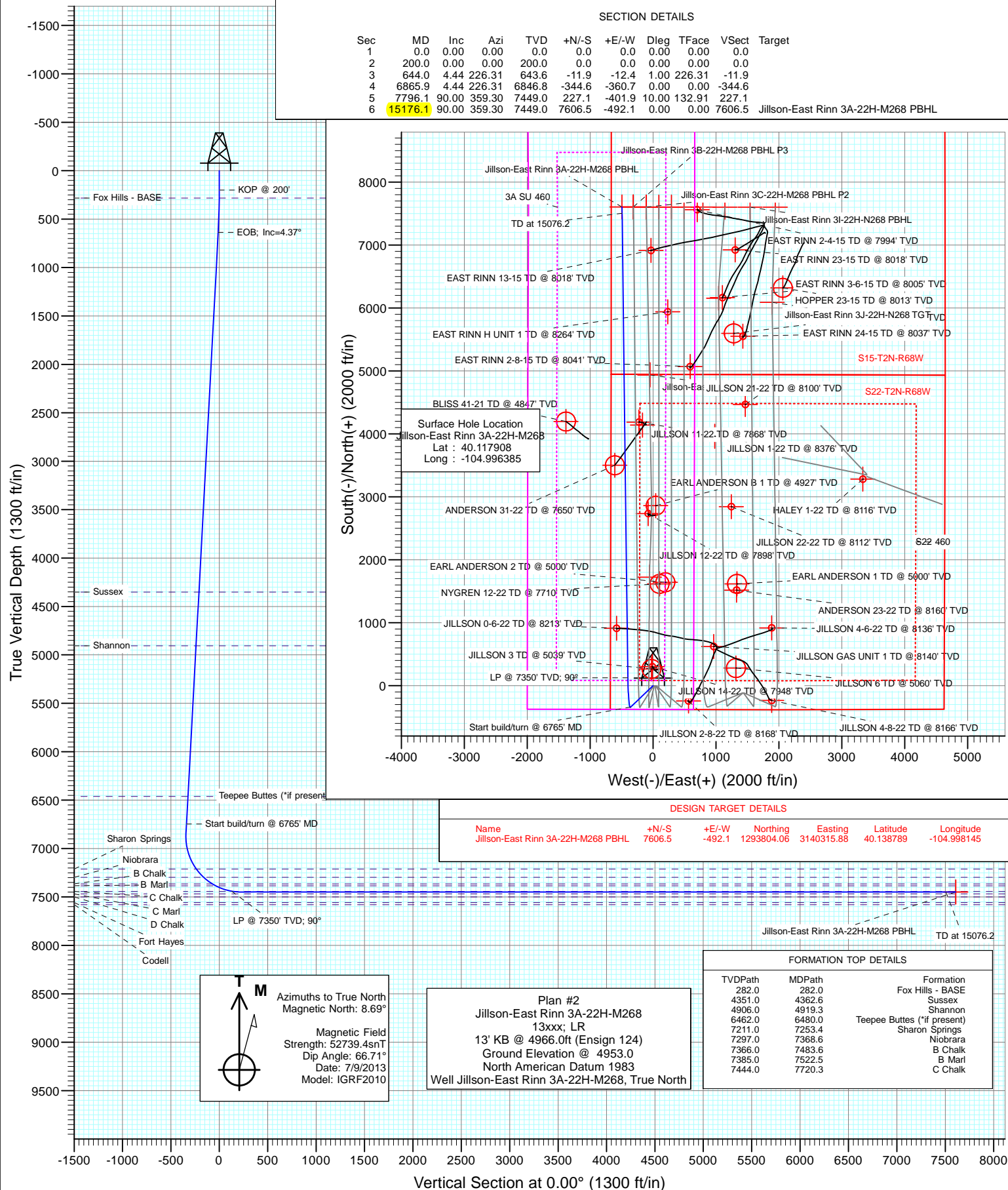




Project: DJ Wattenberg
Site: S22-T2N-R68W (Jillson-East Rinn)
Well: Jillson-East Rinn 3A-22H-M268
Wellbore: Hz
Design: Plan #2



Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Project: | DJ Wattenberg | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site: | S22-T2N-R68W (Jillson-East Rinn) | North Reference: | True |
| Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

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

| | | | | | |
|-----------------------|----------|----------------------------------|-----------------|-------------------|-------------|
| Site | | S22-T2N-R68W (Jillson-East Rinn) | | | |
| Site Position: | | Northing: | 1,289,542.88 ft | Latitude: | 40.127030 |
| From: | Lat/Long | Easting: | 3,144,231.14 ft | Longitude: | -104.984230 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.33 ° |

| | | | | | | |
|----------------------|-------------------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Jillson-East Rinn 3A-22H-M268 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,286,200.43 ft | Latitude: | 40.117908 |
| | +E/-W | 0.0 ft | Easting: | 3,140,851.14 ft | Longitude: | -104.996385 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,953.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore | Hz | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | IGRF2010 | 7/9/2013 | 8.69 | 66.71 | 52,739 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | Plan #2 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (ft) | (ft) | (ft) | (°) |
| | 0.0 | 0.0 | 0.0 | 0.00 |

| | | | | | | | | | | |
|-----------------------|--------------------|----------------|-----------------------|--------------|--------------|--------------------|-------------------|------------------|------------|------------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Dogleg Rate | Build Rate | Turn Rate | TFO | Target |
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (°/100ft) | (°/100ft) | (°/100ft) | (°) | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 644.0 | 4.44 | 226.31 | 643.6 | -11.9 | -12.4 | 1.00 | 1.00 | 0.00 | 226.31 | |
| 6,865.9 | 4.44 | 226.31 | 6,846.8 | -344.6 | -360.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,796.1 | 90.00 | 359.30 | 7,449.0 | 227.1 | -401.9 | 10.00 | 9.20 | 14.30 | 132.91 | |
| 15,176.1 | 90.00 | 359.30 | 7,449.0 | 7,606.5 | -492.1 | 0.00 | 0.00 | 0.00 | 0.00 | Jillson-East Rinn 3A-2 |

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Project: | DJ Wattenberg | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site: | S22-T2N-R68W (Jillson-East Rinn) | North Reference: | True |
| Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 200' |
| 282.0 | 0.82 | 226.31 | 282.0 | -0.4 | -0.4 | -0.4 | 1.00 | 1.00 | Fox Hills - BASE |
| 300.0 | 1.00 | 226.31 | 300.0 | -0.6 | -0.6 | -0.6 | 1.00 | 1.00 | |
| 400.0 | 2.00 | 226.31 | 400.0 | -2.4 | -2.5 | -2.4 | 1.00 | 1.00 | |
| 500.0 | 3.00 | 226.31 | 499.9 | -5.4 | -5.7 | -5.4 | 1.00 | 1.00 | |
| 600.0 | 4.00 | 226.31 | 599.7 | -9.6 | -10.1 | -9.6 | 1.00 | 1.00 | |
| 637.1 | 4.37 | 226.31 | 636.7 | -11.5 | -12.0 | -11.5 | 1.00 | 1.00 | EOB; Inc=4.37° |
| 644.0 | 4.44 | 226.31 | 643.6 | -11.9 | -12.4 | -11.9 | 1.00 | 1.00 | |
| 700.0 | 4.44 | 226.31 | 699.4 | -14.9 | -15.6 | -14.9 | 0.00 | 0.00 | |
| 800.0 | 4.44 | 226.31 | 799.1 | -20.2 | -21.2 | -20.2 | 0.00 | 0.00 | |
| 900.0 | 4.44 | 226.31 | 898.8 | -25.6 | -26.8 | -25.6 | 0.00 | 0.00 | |
| 1,000.0 | 4.44 | 226.31 | 998.5 | -30.9 | -32.4 | -30.9 | 0.00 | 0.00 | |
| 1,100.0 | 4.44 | 226.31 | 1,098.2 | -36.3 | -38.0 | -36.3 | 0.00 | 0.00 | |
| 1,200.0 | 4.44 | 226.31 | 1,197.9 | -41.6 | -43.6 | -41.6 | 0.00 | 0.00 | |
| 1,300.0 | 4.44 | 226.31 | 1,297.6 | -47.0 | -49.2 | -47.0 | 0.00 | 0.00 | |
| 1,400.0 | 4.44 | 226.31 | 1,397.3 | -52.3 | -54.8 | -52.3 | 0.00 | 0.00 | |
| 1,500.0 | 4.44 | 226.31 | 1,497.0 | -57.7 | -60.3 | -57.7 | 0.00 | 0.00 | |
| 1,600.0 | 4.44 | 226.31 | 1,596.7 | -63.0 | -65.9 | -63.0 | 0.00 | 0.00 | |
| 1,700.0 | 4.44 | 226.31 | 1,696.4 | -68.3 | -71.5 | -68.3 | 0.00 | 0.00 | |
| 1,800.0 | 4.44 | 226.31 | 1,796.1 | -73.7 | -77.1 | -73.7 | 0.00 | 0.00 | |
| 1,900.0 | 4.44 | 226.31 | 1,895.8 | -79.0 | -82.7 | -79.0 | 0.00 | 0.00 | |
| 2,000.0 | 4.44 | 226.31 | 1,995.5 | -84.4 | -88.3 | -84.4 | 0.00 | 0.00 | |
| 2,100.0 | 4.44 | 226.31 | 2,095.2 | -89.7 | -93.9 | -89.7 | 0.00 | 0.00 | |
| 2,200.0 | 4.44 | 226.31 | 2,194.9 | -95.1 | -99.5 | -95.1 | 0.00 | 0.00 | |
| 2,300.0 | 4.44 | 226.31 | 2,294.6 | -100.4 | -105.1 | -100.4 | 0.00 | 0.00 | |
| 2,400.0 | 4.44 | 226.31 | 2,394.3 | -105.8 | -110.7 | -105.8 | 0.00 | 0.00 | |
| 2,500.0 | 4.44 | 226.31 | 2,494.0 | -111.1 | -116.3 | -111.1 | 0.00 | 0.00 | |
| 2,600.0 | 4.44 | 226.31 | 2,593.7 | -116.5 | -121.9 | -116.5 | 0.00 | 0.00 | |
| 2,700.0 | 4.44 | 226.31 | 2,693.4 | -121.8 | -127.5 | -121.8 | 0.00 | 0.00 | |
| 2,800.0 | 4.44 | 226.31 | 2,793.1 | -127.2 | -133.1 | -127.2 | 0.00 | 0.00 | |
| 2,900.0 | 4.44 | 226.31 | 2,892.8 | -132.5 | -138.7 | -132.5 | 0.00 | 0.00 | |
| 3,000.0 | 4.44 | 226.31 | 2,992.5 | -137.9 | -144.3 | -137.9 | 0.00 | 0.00 | |
| 3,100.0 | 4.44 | 226.31 | 3,092.2 | -143.2 | -149.9 | -143.2 | 0.00 | 0.00 | |
| 3,200.0 | 4.44 | 226.31 | 3,191.9 | -148.6 | -155.5 | -148.6 | 0.00 | 0.00 | |
| 3,300.0 | 4.44 | 226.31 | 3,291.6 | -153.9 | -161.1 | -153.9 | 0.00 | 0.00 | |
| 3,400.0 | 4.44 | 226.31 | 3,391.3 | -159.3 | -166.7 | -159.3 | 0.00 | 0.00 | |
| 3,500.0 | 4.44 | 226.31 | 3,491.0 | -164.6 | -172.3 | -164.6 | 0.00 | 0.00 | |
| 3,600.0 | 4.44 | 226.31 | 3,590.7 | -170.0 | -177.9 | -170.0 | 0.00 | 0.00 | |
| 3,700.0 | 4.44 | 226.31 | 3,690.4 | -175.3 | -183.5 | -175.3 | 0.00 | 0.00 | |
| 3,800.0 | 4.44 | 226.31 | 3,790.1 | -180.6 | -189.1 | -180.6 | 0.00 | 0.00 | |
| 3,900.0 | 4.44 | 226.31 | 3,889.8 | -186.0 | -194.7 | -186.0 | 0.00 | 0.00 | |
| 4,000.0 | 4.44 | 226.31 | 3,989.5 | -191.3 | -200.3 | -191.3 | 0.00 | 0.00 | |
| 4,100.0 | 4.44 | 226.31 | 4,089.2 | -196.7 | -205.9 | -196.7 | 0.00 | 0.00 | |
| 4,200.0 | 4.44 | 226.31 | 4,188.9 | -202.0 | -211.5 | -202.0 | 0.00 | 0.00 | |
| 4,300.0 | 4.44 | 226.31 | 4,288.6 | -207.4 | -217.1 | -207.4 | 0.00 | 0.00 | |
| 4,362.6 | 4.44 | 226.31 | 4,351.0 | -210.7 | -220.6 | -210.7 | 0.00 | 0.00 | Sussex |
| 4,400.0 | 4.44 | 226.31 | 4,388.3 | -212.7 | -222.7 | -212.7 | 0.00 | 0.00 | |
| 4,500.0 | 4.44 | 226.31 | 4,488.0 | -218.1 | -228.3 | -218.1 | 0.00 | 0.00 | |
| 4,600.0 | 4.44 | 226.31 | 4,587.7 | -223.4 | -233.9 | -223.4 | 0.00 | 0.00 | |
| 4,700.0 | 4.44 | 226.31 | 4,687.4 | -228.8 | -239.5 | -228.8 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Project: | DJ Wattenberg | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site: | S22-T2N-R68W (Jillson-East Rinn) | North Reference: | True |
| Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------------|
| 4,800.0 | 4.44 | 226.31 | 4,787.1 | -234.1 | -245.1 | -234.1 | 0.00 | 0.00 | |
| 4,900.0 | 4.44 | 226.31 | 4,886.8 | -239.5 | -250.7 | -239.5 | 0.00 | 0.00 | |
| 4,919.3 | 4.44 | 226.31 | 4,906.0 | -240.5 | -251.7 | -240.5 | 0.00 | 0.00 | Shannon |
| 5,000.0 | 4.44 | 226.31 | 4,986.5 | -244.8 | -256.3 | -244.8 | 0.00 | 0.00 | |
| 5,100.0 | 4.44 | 226.31 | 5,086.2 | -250.2 | -261.9 | -250.2 | 0.00 | 0.00 | |
| 5,200.0 | 4.44 | 226.31 | 5,185.9 | -255.5 | -267.5 | -255.5 | 0.00 | 0.00 | |
| 5,300.0 | 4.44 | 226.31 | 5,285.6 | -260.9 | -273.1 | -260.9 | 0.00 | 0.00 | |
| 5,400.0 | 4.44 | 226.31 | 5,385.3 | -266.2 | -278.7 | -266.2 | 0.00 | 0.00 | |
| 5,500.0 | 4.44 | 226.31 | 5,485.0 | -271.6 | -284.3 | -271.6 | 0.00 | 0.00 | |
| 5,600.0 | 4.44 | 226.31 | 5,584.7 | -276.9 | -289.9 | -276.9 | 0.00 | 0.00 | |
| 5,700.0 | 4.44 | 226.31 | 5,684.4 | -282.3 | -295.5 | -282.3 | 0.00 | 0.00 | |
| 5,800.0 | 4.44 | 226.31 | 5,784.1 | -287.6 | -301.1 | -287.6 | 0.00 | 0.00 | |
| 5,900.0 | 4.44 | 226.31 | 5,883.8 | -292.9 | -306.6 | -292.9 | 0.00 | 0.00 | |
| 6,000.0 | 4.44 | 226.31 | 5,983.5 | -298.3 | -312.2 | -298.3 | 0.00 | 0.00 | |
| 6,100.0 | 4.44 | 226.31 | 6,083.2 | -303.6 | -317.8 | -303.6 | 0.00 | 0.00 | |
| 6,200.0 | 4.44 | 226.31 | 6,182.9 | -309.0 | -323.4 | -309.0 | 0.00 | 0.00 | |
| 6,300.0 | 4.44 | 226.31 | 6,282.6 | -314.3 | -329.0 | -314.3 | 0.00 | 0.00 | |
| 6,400.0 | 4.44 | 226.31 | 6,382.3 | -319.7 | -334.6 | -319.7 | 0.00 | 0.00 | |
| 6,480.0 | 4.44 | 226.31 | 6,462.0 | -324.0 | -339.1 | -324.0 | 0.00 | 0.00 | Teepee Buttes (*if present) |
| 6,500.0 | 4.44 | 226.31 | 6,482.0 | -325.0 | -340.2 | -325.0 | 0.00 | 0.00 | |
| 6,600.0 | 4.44 | 226.31 | 6,581.7 | -330.4 | -345.8 | -330.4 | 0.00 | 0.00 | |
| 6,700.0 | 4.44 | 226.31 | 6,681.4 | -335.7 | -351.4 | -335.7 | 0.00 | 0.00 | |
| 6,765.7 | 4.44 | 226.31 | 6,746.8 | -339.2 | -355.1 | -339.2 | 0.00 | 0.00 | Start build/turn @ 6765' MD |
| 6,800.0 | 4.44 | 226.31 | 6,781.1 | -341.1 | -357.0 | -341.1 | 0.00 | 0.00 | |
| 6,865.9 | 4.44 | 226.31 | 6,846.8 | -344.6 | -360.7 | -344.6 | 0.00 | 0.00 | |
| 6,900.0 | 3.27 | 276.07 | 6,880.8 | -345.4 | -362.6 | -345.4 | 10.00 | -3.42 | |
| 7,000.0 | 10.88 | 342.11 | 6,980.1 | -336.1 | -368.4 | -336.1 | 10.00 | 7.60 | |
| 7,100.0 | 20.63 | 350.62 | 7,076.2 | -309.7 | -374.2 | -309.7 | 10.00 | 9.76 | |
| 7,200.0 | 30.54 | 353.78 | 7,166.3 | -266.9 | -379.8 | -266.9 | 10.00 | 9.91 | |
| 7,253.4 | 35.86 | 354.79 | 7,211.0 | -237.8 | -382.7 | -237.8 | 10.00 | 9.95 | Sharon Springs |
| 7,300.0 | 40.49 | 355.49 | 7,247.6 | -209.1 | -385.1 | -209.1 | 10.00 | 9.95 | |
| 7,368.6 | 47.33 | 356.30 | 7,297.0 | -161.7 | -388.5 | -161.7 | 10.00 | 9.97 | Niobrara |
| 7,400.0 | 50.46 | 356.61 | 7,317.6 | -138.1 | -390.0 | -138.1 | 10.00 | 9.97 | |
| 7,483.6 | 58.81 | 357.33 | 7,366.0 | -70.1 | -393.6 | -70.1 | 10.00 | 9.98 | B Chalk |
| 7,500.0 | 60.44 | 357.45 | 7,374.3 | -55.9 | -394.2 | -55.9 | 9.99 | 9.97 | |
| 7,522.5 | 62.69 | 357.62 | 7,385.0 | -36.2 | -395.1 | -36.2 | 10.01 | 9.99 | B Marl |
| 7,600.0 | 70.42 | 358.14 | 7,415.8 | 34.8 | -397.7 | 34.8 | 10.00 | 9.98 | |
| 7,696.2 | 80.02 | 358.73 | 7,440.3 | 127.7 | -400.2 | 127.7 | 10.00 | 9.98 | LP @ 7350' TVD; 90° |
| 7,700.0 | 80.40 | 358.75 | 7,441.0 | 131.4 | -400.3 | 131.4 | 9.96 | 9.94 | |
| 7,720.3 | 82.43 | 358.87 | 7,444.0 | 151.5 | -400.7 | 151.5 | 10.01 | 9.99 | C Chalk |
| 7,796.1 | 90.00 | 359.30 | 7,449.0 | 227.1 | -401.9 | 227.1 | 10.00 | 9.98 | |
| 7,800.0 | 90.00 | 359.30 | 7,449.0 | 231.0 | -402.0 | 231.0 | 0.00 | 0.00 | |
| 7,900.0 | 90.00 | 359.30 | 7,449.0 | 331.0 | -403.2 | 331.0 | 0.00 | 0.00 | |
| 8,000.0 | 90.00 | 359.30 | 7,449.0 | 431.0 | -404.4 | 431.0 | 0.00 | 0.00 | |
| 8,100.0 | 90.00 | 359.30 | 7,449.0 | 531.0 | -405.6 | 531.0 | 0.00 | 0.00 | |
| 8,200.0 | 90.00 | 359.30 | 7,449.0 | 630.9 | -406.8 | 630.9 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 359.30 | 7,449.0 | 730.9 | -408.1 | 730.9 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 359.30 | 7,449.0 | 830.9 | -409.3 | 830.9 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 359.30 | 7,449.0 | 930.9 | -410.5 | 930.9 | 0.00 | 0.00 | |
| 8,600.0 | 90.00 | 359.30 | 7,449.0 | 1,030.9 | -411.7 | 1,030.9 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 359.30 | 7,449.0 | 1,130.9 | -412.9 | 1,130.9 | 0.00 | 0.00 | |
| 8,800.0 | 90.00 | 359.30 | 7,449.0 | 1,230.9 | -414.2 | 1,230.9 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Project: | DJ Wattenberg | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site: | S22-T2N-R68W (Jillson-East Rinn) | North Reference: | True |
| Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 8,900.0 | 90.00 | 359.30 | 7,449.0 | 1,330.9 | -415.4 | 1,330.9 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 359.30 | 7,449.0 | 1,430.9 | -416.6 | 1,430.9 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 359.30 | 7,449.0 | 1,530.9 | -417.8 | 1,530.9 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 359.30 | 7,449.0 | 1,630.9 | -419.1 | 1,630.9 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 359.30 | 7,449.0 | 1,730.9 | -420.3 | 1,730.9 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 359.30 | 7,449.0 | 1,830.9 | -421.5 | 1,830.9 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 359.30 | 7,449.0 | 1,930.8 | -422.7 | 1,930.8 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 359.30 | 7,449.0 | 2,030.8 | -423.9 | 2,030.8 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 359.30 | 7,449.0 | 2,130.8 | -425.2 | 2,130.8 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 359.30 | 7,449.0 | 2,230.8 | -426.4 | 2,230.8 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 359.30 | 7,449.0 | 2,330.8 | -427.6 | 2,330.8 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 359.30 | 7,449.0 | 2,430.8 | -428.8 | 2,430.8 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 359.30 | 7,449.0 | 2,530.8 | -430.1 | 2,530.8 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 359.30 | 7,449.0 | 2,630.8 | -431.3 | 2,630.8 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 359.30 | 7,449.0 | 2,730.8 | -432.5 | 2,730.8 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 359.30 | 7,449.0 | 2,830.8 | -433.7 | 2,830.8 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 359.30 | 7,449.0 | 2,930.8 | -434.9 | 2,930.8 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 359.30 | 7,449.0 | 3,030.8 | -436.2 | 3,030.8 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 359.30 | 7,449.0 | 3,130.8 | -437.4 | 3,130.8 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 359.30 | 7,449.0 | 3,230.8 | -438.6 | 3,230.8 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 359.30 | 7,449.0 | 3,330.7 | -439.8 | 3,330.7 | 0.00 | 0.00 | |
| 11,000.0 | 90.00 | 359.30 | 7,449.0 | 3,430.7 | -441.0 | 3,430.7 | 0.00 | 0.00 | |
| 11,100.0 | 90.00 | 359.30 | 7,449.0 | 3,530.7 | -442.3 | 3,530.7 | 0.00 | 0.00 | |
| 11,200.0 | 90.00 | 359.30 | 7,449.0 | 3,630.7 | -443.5 | 3,630.7 | 0.00 | 0.00 | |
| 11,300.0 | 90.00 | 359.30 | 7,449.0 | 3,730.7 | -444.7 | 3,730.7 | 0.00 | 0.00 | |
| 11,400.0 | 90.00 | 359.30 | 7,449.0 | 3,830.7 | -445.9 | 3,830.7 | 0.00 | 0.00 | |
| 11,500.0 | 90.00 | 359.30 | 7,449.0 | 3,930.7 | -447.2 | 3,930.7 | 0.00 | 0.00 | |
| 11,600.0 | 90.00 | 359.30 | 7,449.0 | 4,030.7 | -448.4 | 4,030.7 | 0.00 | 0.00 | |
| 11,700.0 | 90.00 | 359.30 | 7,449.0 | 4,130.7 | -449.6 | 4,130.7 | 0.00 | 0.00 | |
| 11,800.0 | 90.00 | 359.30 | 7,449.0 | 4,230.7 | -450.8 | 4,230.7 | 0.00 | 0.00 | |
| 11,900.0 | 90.00 | 359.30 | 7,449.0 | 4,330.7 | -452.0 | 4,330.7 | 0.00 | 0.00 | |
| 12,000.0 | 90.00 | 359.30 | 7,449.0 | 4,430.7 | -453.3 | 4,430.7 | 0.00 | 0.00 | |
| 12,100.0 | 90.00 | 359.30 | 7,449.0 | 4,530.7 | -454.5 | 4,530.7 | 0.00 | 0.00 | |
| 12,200.0 | 90.00 | 359.30 | 7,449.0 | 4,630.7 | -455.7 | 4,630.7 | 0.00 | 0.00 | |
| 12,300.0 | 90.00 | 359.30 | 7,449.0 | 4,730.6 | -456.9 | 4,730.6 | 0.00 | 0.00 | |
| 12,400.0 | 90.00 | 359.30 | 7,449.0 | 4,830.6 | -458.2 | 4,830.6 | 0.00 | 0.00 | |
| 12,500.0 | 90.00 | 359.30 | 7,449.0 | 4,930.6 | -459.4 | 4,930.6 | 0.00 | 0.00 | |
| 12,600.0 | 90.00 | 359.30 | 7,449.0 | 5,030.6 | -460.6 | 5,030.6 | 0.00 | 0.00 | |
| 12,700.0 | 90.00 | 359.30 | 7,449.0 | 5,130.6 | -461.8 | 5,130.6 | 0.00 | 0.00 | |
| 12,800.0 | 90.00 | 359.30 | 7,449.0 | 5,230.6 | -463.0 | 5,230.6 | 0.00 | 0.00 | |
| 12,900.0 | 90.00 | 359.30 | 7,449.0 | 5,330.6 | -464.3 | 5,330.6 | 0.00 | 0.00 | |
| 13,000.0 | 90.00 | 359.30 | 7,449.0 | 5,430.6 | -465.5 | 5,430.6 | 0.00 | 0.00 | |
| 13,100.0 | 90.00 | 359.30 | 7,449.0 | 5,530.6 | -466.7 | 5,530.6 | 0.00 | 0.00 | |
| 13,200.0 | 90.00 | 359.30 | 7,449.0 | 5,630.6 | -467.9 | 5,630.6 | 0.00 | 0.00 | |
| 13,300.0 | 90.00 | 359.30 | 7,449.0 | 5,730.6 | -469.1 | 5,730.6 | 0.00 | 0.00 | |
| 13,400.0 | 90.00 | 359.30 | 7,449.0 | 5,830.6 | -470.4 | 5,830.6 | 0.00 | 0.00 | |
| 13,500.0 | 90.00 | 359.30 | 7,449.0 | 5,930.6 | -471.6 | 5,930.6 | 0.00 | 0.00 | |
| 13,600.0 | 90.00 | 359.30 | 7,449.0 | 6,030.6 | -472.8 | 6,030.6 | 0.00 | 0.00 | |
| 13,700.0 | 90.00 | 359.30 | 7,449.0 | 6,130.5 | -474.0 | 6,130.5 | 0.00 | 0.00 | |
| 13,800.0 | 90.00 | 359.30 | 7,449.0 | 6,230.5 | -475.3 | 6,230.5 | 0.00 | 0.00 | |
| 13,900.0 | 90.00 | 359.30 | 7,449.0 | 6,330.5 | -476.5 | 6,330.5 | 0.00 | 0.00 | |
| 14,000.0 | 90.00 | 359.30 | 7,449.0 | 6,430.5 | -477.7 | 6,430.5 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Project: | DJ Wattenberg | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site: | S22-T2N-R68W (Jillson-East Rinn) | North Reference: | True |
| Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 14,100.0 | 90.00 | 359.30 | 7,449.0 | 6,530.5 | -478.9 | 6,530.5 | 0.00 | 0.00 | |
| 14,200.0 | 90.00 | 359.30 | 7,449.0 | 6,630.5 | -480.1 | 6,630.5 | 0.00 | 0.00 | |
| 14,300.0 | 90.00 | 359.30 | 7,449.0 | 6,730.5 | -481.4 | 6,730.5 | 0.00 | 0.00 | |
| 14,400.0 | 90.00 | 359.30 | 7,449.0 | 6,830.5 | -482.6 | 6,830.5 | 0.00 | 0.00 | |
| 14,500.0 | 90.00 | 359.30 | 7,449.0 | 6,930.5 | -483.8 | 6,930.5 | 0.00 | 0.00 | |
| 14,600.0 | 90.00 | 359.30 | 7,449.0 | 7,030.5 | -485.0 | 7,030.5 | 0.00 | 0.00 | |
| 14,700.0 | 90.00 | 359.30 | 7,449.0 | 7,130.5 | -486.3 | 7,130.5 | 0.00 | 0.00 | |
| 14,800.0 | 90.00 | 359.30 | 7,449.0 | 7,230.5 | -487.5 | 7,230.5 | 0.00 | 0.00 | |
| 14,900.0 | 90.00 | 359.30 | 7,449.0 | 7,330.5 | -488.7 | 7,330.5 | 0.00 | 0.00 | |
| 15,000.0 | 90.00 | 359.30 | 7,449.0 | 7,430.4 | -489.9 | 7,430.4 | 0.00 | 0.00 | |
| 15,076.2 | 90.00 | 359.30 | 7,449.0 | 7,506.6 | -490.8 | 7,506.6 | 0.00 | 0.00 | TD at 15076.2 |
| 15,100.0 | 90.00 | 359.30 | 7,449.0 | 7,530.4 | -491.1 | 7,530.4 | 0.00 | 0.00 | |
| 15,176.1 | 90.00 | 359.30 | 7,449.0 | 7,606.5 | -492.1 | 7,606.5 | 0.00 | 0.00 | |

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 | | | | | | | | | |
| Jillson-East Rinn 3A-22H | 0.00 | 0.00 | 7,449.0 | 7,606.5 | -492.1 | 1,293,804.06 | 3,140,315.88 | 40.138789 | -104.998145 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|-----------------------------|-----------|---------|-------------------|
| 282.0 | 282.0 | Fox Hills - BASE | | | |
| 4,362.6 | 4,351.0 | Sussex | | | |
| 4,919.3 | 4,906.0 | Shannon | | | |
| 6,480.0 | 6,462.0 | Teepee Buttes (*if present) | | | |
| 7,253.4 | 7,211.0 | Sharon Springs | | | |
| 7,368.6 | 7,297.0 | Niobrara | | | |
| 7,483.6 | 7,366.0 | B Chalk | | | |
| 7,522.5 | 7,385.0 | B Marl | | | |
| 7,720.3 | 7,444.0 | C Chalk | | | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|-----------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP @ 200' |
| 637.1 | 636.7 | -11.5 | -12.1 | EOB; Inc=4.37° |
| 6,765.7 | 6,746.9 | -338.6 | -354.5 | Start build/turn @ 6765' MD |
| 7,696.2 | 7,450.1 | 115.9 | -399.9 | LP @ 7350' TVD; 90° |
| 15,076.2 | 7,461.0 | 7,494.7 | -490.7 | TD at 15076.2 |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S22-T2N-R68W (Jillson-East Rinn)

Jillson-East Rinn 3A-22H-M268

Hz

Plan #2

Anticollision Report

06 May, 2014

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #2 | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | | |
|----------------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Tool Program | | Date | 5/6/2014 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 15,176.1 | Plan #2 (Hz) | Geolink MWD | Geolink MWD | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|-----------------|
| Offset Well - Wellbore - Design | | | | | | |
| S22-T2N-R68W (Jillson-East Rinn) | | | | | | |
| ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S | | | | | | Out of range |
| ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL | 11,073.8 | 7,475.6 | 164.2 | 82.2 | 2.001 | CC, ES, SF |
| BLISS 41-21 (EXISTING) - KPK WELL - SURVEYS | | | | | | Out of range |
| EARL ANDERSON 1 (EXISTING) - KPK WELL - NO SUR | | | | | | Out of range |
| EARL ANDERSON 2 (EXISTING) - KPK WELL - NO SUR | | | | | | Out of range |
| EARL ANDERSON B 1 (EXISTING) - KPK WELL - NO S | | | | | | Out of range |
| EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV | 14,479.9 | 7,754.7 | 451.8 | 313.0 | 3.255 | CC, ES |
| EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV | 14,500.0 | 7,754.5 | 452.3 | 313.1 | 3.250 | SF |
| EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N | | | | | | Out of range |
| EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV | | | | | | Out of range |
| EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV | | | | | | Out of range |
| EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR | | | | | | Out of range |
| EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR | | | | | | Out of range |
| EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR | | | | | | Out of range |
| EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N | 13,501.9 | 7,360.0 | 706.0 | 586.5 | 5.907 | CC, ES |
| EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N | 13,600.0 | 7,360.0 | 712.8 | 591.5 | 5.880 | SF |
| HALEY 1-22 (EXISTING) - ENCANA WELL - NO SURVE | | | | | | Out of range |
| Haley 31-22 - DD - Plan #1 | | | | | | Out of range |
| Haley 4-2-22 - DD - Plan #1 | | | | | | Out of range |
| Haley 8-4-22 - DD - Plan #1 | | | | | | Out of range |
| HOPPER 23-15 (EXISTING) - KERR-MCGEE WELL - SU | | | | | | Out of range |
| JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE | 8,477.3 | 7,738.1 | 166.5 | 129.9 | 4.544 | CC, ES, SF |
| JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO | 11,753.3 | 7,369.3 | 227.1 | 137.9 | 2.546 | CC, ES, SF |
| JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV | | | | | | Out of range |
| JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO | 10,294.4 | 7,391.2 | 352.8 | 288.6 | 5.496 | CC |
| JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO | 10,300.0 | 7,391.3 | 352.9 | 288.6 | 5.488 | ES, SF |
| JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO | 246.5 | 232.4 | 265.2 | 264.4 | 319.725 | CC, ES |
| JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO | 7,900.0 | 7,434.8 | 391.5 | 363.4 | 13.925 | SF |
| JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE | 4,379.4 | 4,543.9 | 821.8 | 796.3 | 32.138 | CC |
| JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE | 4,500.0 | 4,661.3 | 822.2 | 796.2 | 31.641 | ES |
| JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE | 7,300.0 | 7,382.2 | 940.5 | 908.1 | 29.040 | SF |
| JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU | 200.0 | 180.0 | 267.7 | 267.1 | 417.828 | CC, ES |
| JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU | 5,100.0 | 5,039.0 | 569.7 | 551.7 | 31.698 | SF |
| JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU | | | | | | Out of range |
| JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N | | | | | | Out of range |
| Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3 | 200.0 | 200.0 | 10.1 | 9.4 | 15.424 | CC |
| Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3 | 15,176.1 | 15,307.1 | 226.9 | 8.9 | 1.041 | Level 2, ES, SF |
| Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2 | 200.0 | 200.0 | 20.1 | 19.5 | 30.848 | CC, ES |
| Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2 | 15,176.1 | 15,094.7 | 392.0 | 125.1 | 1.469 | Level 3, SF |
| Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1 | 200.0 | 209.0 | 30.2 | 29.6 | 46.646 | CC, ES |
| Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1 | 15,176.1 | 15,278.2 | 596.2 | 329.4 | 2.235 | SF |
| Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1 | 200.0 | 209.0 | 40.0 | 39.3 | 61.766 | CC, ES |
| Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1 | 15,176.1 | 14,711.4 | 908.9 | 673.2 | 3.856 | SF |
| Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1 | 200.0 | 209.0 | 50.1 | 49.4 | 77.314 | CC, ES |
| Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1 | 6,400.0 | 6,359.6 | 784.0 | 759.0 | 31.421 | SF |
| Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2 | | | | | | Out of range |
| Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3 | | | | | | Out of range |
| Jillson-East Rinn 3I-22H-N268 - Hz - Plan #1 | | | | | | Out of range |
| Jillson-East Rinn 3J-22H-N268 - Hz - Plan #1 | | | | | | Out of range |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Summary | | | | | | |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| S22-T2N-R68W (Jillson-East Rinn) | | | | | | |
| NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N | 9,180.9 | 7,403.0 | 523.5 | 477.7 | 11.452 | CC, ES |
| NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N | 9,300.0 | 7,403.0 | 536.8 | 489.2 | 11.270 | SF |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL - NO SUR | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 1500-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 | | |
| 10,100.0 | 7,449.0 | 7,475.6 | 7,373.0 | 48.5 | 19.5 | -90.00 | 3,502.5 | -606.2 | 987.6 | 922.1 | 65.49 | 15.081 | | |
| 10,200.0 | 7,449.0 | 7,475.6 | 7,373.0 | 50.2 | 19.5 | -90.00 | 3,502.5 | -606.2 | 889.1 | 821.9 | 67.18 | 13.236 | | |
| 10,300.0 | 7,449.0 | 7,475.6 | 7,373.0 | 51.9 | 19.5 | -90.00 | 3,502.5 | -606.2 | 791.1 | 722.2 | 68.87 | 11.486 | | |
| 10,400.0 | 7,449.0 | 7,475.6 | 7,373.0 | 53.6 | 19.5 | -90.00 | 3,502.5 | -606.2 | 693.5 | 623.0 | 70.57 | 9.828 | | |
| 10,500.0 | 7,449.0 | 7,475.6 | 7,373.0 | 55.2 | 19.5 | -90.00 | 3,502.5 | -606.2 | 596.9 | 524.6 | 72.27 | 8.259 | | |
| 10,600.0 | 7,449.0 | 7,475.6 | 7,373.0 | 56.9 | 19.5 | -90.00 | 3,502.5 | -606.2 | 501.5 | 427.5 | 73.98 | 6.779 | | |
| 10,700.0 | 7,449.0 | 7,475.6 | 7,373.0 | 58.6 | 19.5 | -90.00 | 3,502.5 | -606.2 | 408.3 | 332.6 | 75.68 | 5.395 | | |
| 10,800.0 | 7,449.0 | 7,475.6 | 7,373.0 | 60.3 | 19.5 | -90.00 | 3,502.5 | -606.2 | 319.3 | 241.9 | 77.39 | 4.126 | | |
| 10,900.0 | 7,449.0 | 7,475.6 | 7,373.0 | 62.0 | 19.5 | -90.00 | 3,502.5 | -606.2 | 239.1 | 160.0 | 79.11 | 3.023 | | |
| 11,000.0 | 7,449.0 | 7,475.6 | 7,373.0 | 63.7 | 19.5 | -90.00 | 3,502.5 | -606.2 | 180.1 | 99.3 | 80.82 | 2.228 | | |
| 11,073.8 | 7,449.0 | 7,475.6 | 7,373.0 | 65.0 | 19.5 | -90.00 | 3,502.5 | -606.2 | 164.2 | 82.2 | 82.09 | 2.001 | CC, ES, SF | |
| 11,100.0 | 7,449.0 | 7,475.6 | 7,373.0 | 65.4 | 19.5 | -90.00 | 3,502.5 | -606.2 | 166.3 | 83.8 | 82.54 | 2.015 | | |
| 11,200.0 | 7,449.0 | 7,475.6 | 7,373.0 | 67.1 | 19.5 | -90.00 | 3,502.5 | -606.2 | 207.1 | 122.9 | 84.26 | 2.458 | | |
| 11,300.0 | 7,449.0 | 7,475.6 | 7,373.0 | 68.9 | 19.5 | -90.00 | 3,502.5 | -606.2 | 279.5 | 193.5 | 85.98 | 3.251 | | |
| 11,400.0 | 7,449.0 | 7,475.6 | 7,373.0 | 70.6 | 19.5 | -90.00 | 3,502.5 | -606.2 | 365.2 | 277.5 | 87.70 | 4.164 | | |
| 11,500.0 | 7,449.0 | 7,475.6 | 7,373.0 | 72.3 | 19.5 | -90.00 | 3,502.5 | -606.2 | 456.7 | 367.3 | 89.43 | 5.107 | | |
| 11,600.0 | 7,449.0 | 7,475.6 | 7,373.0 | 74.0 | 19.5 | -90.00 | 3,502.5 | -606.2 | 551.2 | 460.1 | 91.15 | 6.047 | | |
| 11,700.0 | 7,449.0 | 7,475.6 | 7,373.0 | 75.7 | 19.5 | -90.00 | 3,502.5 | -606.2 | 647.4 | 554.5 | 92.88 | 6.970 | | |
| 11,800.0 | 7,449.0 | 7,475.6 | 7,373.0 | 77.4 | 19.5 | -90.00 | 3,502.5 | -606.2 | 744.5 | 649.9 | 94.61 | 7.870 | | |
| 11,900.0 | 7,449.0 | 7,475.6 | 7,373.0 | 79.2 | 19.5 | -90.00 | 3,502.5 | -606.2 | 842.3 | 746.0 | 96.34 | 8.744 | | |
| 12,000.0 | 7,449.0 | 7,475.6 | 7,373.0 | 80.9 | 19.5 | -90.00 | 3,502.5 | -606.2 | 940.6 | 842.6 | 98.07 | 9.592 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | Offset Site Error: | | 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------|---------|
| Survey Program: 106-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 | | |
| 13,600.0 | 7,449.0 | 7,760.2 | 7,378.3 | 108.6 | 37.0 | 90.88 | 6,915.9 | -31.8 | 989.1 | 865.6 | 123.51 | 8.008 | | |
| 13,700.0 | 7,449.0 | 7,759.6 | 7,377.7 | 110.3 | 37.0 | 90.80 | 6,915.9 | -31.8 | 901.3 | 776.1 | 125.25 | 7.196 | | |
| 13,800.0 | 7,449.0 | 7,758.9 | 7,377.1 | 112.1 | 37.0 | 90.72 | 6,915.9 | -31.8 | 816.4 | 689.4 | 126.99 | 6.428 | | |
| 13,900.0 | 7,449.0 | 7,758.3 | 7,376.5 | 113.8 | 37.0 | 90.64 | 6,915.9 | -31.8 | 735.2 | 606.4 | 128.73 | 5.711 | | |
| 14,000.0 | 7,449.0 | 7,757.7 | 7,375.8 | 115.6 | 37.0 | 90.56 | 6,915.9 | -31.8 | 659.1 | 528.7 | 130.47 | 5.052 | | |
| 14,100.0 | 7,449.0 | 7,757.1 | 7,375.2 | 117.3 | 37.0 | 90.48 | 6,915.9 | -31.8 | 590.3 | 458.1 | 132.22 | 4.465 | | |
| 14,200.0 | 7,449.0 | 7,756.4 | 7,374.6 | 119.0 | 37.0 | 90.40 | 6,915.9 | -31.8 | 531.5 | 397.6 | 133.96 | 3.968 | | |
| 14,300.0 | 7,449.0 | 7,755.8 | 7,374.0 | 120.8 | 37.0 | 90.32 | 6,915.9 | -31.8 | 486.3 | 350.6 | 135.70 | 3.584 | | |
| 14,400.0 | 7,449.0 | 7,755.2 | 7,373.3 | 122.5 | 37.0 | 90.24 | 6,915.9 | -31.8 | 458.8 | 321.4 | 137.44 | 3.339 | | |
| 14,479.9 | 7,449.0 | 7,754.7 | 7,372.8 | 123.9 | 37.0 | 90.18 | 6,915.9 | -31.8 | 451.8 | 313.0 | 138.83 | 3.255 CC, ES | | |
| 14,500.0 | 7,449.0 | 7,754.5 | 7,372.7 | 124.3 | 37.0 | 90.16 | 6,915.9 | -31.8 | 452.3 | 313.1 | 139.18 | 3.250 SF | | |
| 14,600.0 | 7,449.0 | 7,753.9 | 7,372.1 | 126.0 | 37.0 | 90.08 | 6,915.9 | -31.8 | 467.5 | 326.6 | 140.92 | 3.318 | | |
| 14,700.0 | 7,449.0 | 7,753.3 | 7,371.4 | 127.7 | 37.0 | 90.00 | 6,915.9 | -31.8 | 502.6 | 359.9 | 142.66 | 3.523 | | |
| 14,800.0 | 7,449.0 | 7,753.0 | 7,371.2 | 129.5 | 37.0 | 89.97 | 6,915.9 | -31.8 | 553.7 | 409.3 | 144.41 | 3.834 | | |
| 14,900.0 | 7,449.0 | 7,753.0 | 7,371.2 | 131.2 | 37.0 | 89.97 | 6,915.9 | -31.8 | 616.9 | 470.8 | 146.15 | 4.221 | | |
| 15,000.0 | 7,449.0 | 7,753.0 | 7,371.2 | 133.0 | 37.0 | 89.97 | 6,915.9 | -31.8 | 688.9 | 541.0 | 147.90 | 4.658 | | |
| 15,100.0 | 7,449.0 | 7,753.0 | 7,371.2 | 134.7 | 37.0 | 89.97 | 6,915.9 | -31.8 | 767.2 | 617.6 | 149.64 | 5.127 | | |
| 15,176.1 | 7,449.0 | 7,753.0 | 7,371.2 | 136.0 | 37.0 | 89.97 | 6,915.9 | -31.8 | 830.0 | 679.0 | 150.97 | 5.498 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - NO SURVE | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 8264-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) | | | | |
| 12,800.0 | 7,449.0 | 7,360.0 | 7,360.0 | 94.7 | 12.8 | 90.00 | 5,941.0 | 234.3 | 995.5 | 888.2 | 107.31 | 9.277 | | |
| 12,900.0 | 7,449.0 | 7,360.0 | 7,360.0 | 96.5 | 12.8 | 90.00 | 5,941.0 | 234.3 | 927.7 | 818.7 | 109.05 | 8.508 | | |
| 13,000.0 | 7,449.0 | 7,360.0 | 7,360.0 | 98.2 | 12.8 | 90.00 | 5,941.0 | 234.3 | 866.2 | 755.4 | 110.79 | 7.819 | | |
| 13,100.0 | 7,449.0 | 7,360.0 | 7,360.0 | 99.9 | 12.8 | 90.00 | 5,941.0 | 234.3 | 812.4 | 699.8 | 112.52 | 7.219 | | |
| 13,200.0 | 7,449.0 | 7,360.0 | 7,360.0 | 101.7 | 12.8 | 90.00 | 5,941.0 | 234.3 | 767.8 | 653.5 | 114.26 | 6.720 | | |
| 13,300.0 | 7,449.0 | 7,360.0 | 7,360.0 | 103.4 | 12.8 | 90.00 | 5,941.0 | 234.3 | 734.3 | 618.3 | 116.00 | 6.330 | | |
| 13,400.0 | 7,449.0 | 7,360.0 | 7,360.0 | 105.1 | 12.8 | 90.00 | 5,941.0 | 234.3 | 713.3 | 595.5 | 117.74 | 6.058 | | |
| 13,500.0 | 7,449.0 | 7,360.0 | 7,360.0 | 106.9 | 12.8 | 90.00 | 5,941.0 | 234.3 | 706.0 | 586.5 | 119.48 | 5.909 | | |
| 13,501.9 | 7,449.0 | 7,360.0 | 7,360.0 | 106.9 | 12.8 | 90.00 | 5,941.0 | 234.3 | 706.0 | 586.5 | 119.52 | 5.907 CC, ES | | |
| 13,600.0 | 7,449.0 | 7,360.0 | 7,360.0 | 108.6 | 12.8 | 90.00 | 5,941.0 | 234.3 | 712.8 | 591.5 | 121.23 | 5.880 SF | | |
| 13,700.0 | 7,449.0 | 7,360.0 | 7,360.0 | 110.3 | 12.8 | 90.00 | 5,941.0 | 234.3 | 733.2 | 610.3 | 122.97 | 5.963 | | |
| 13,800.0 | 7,449.0 | 7,360.0 | 7,360.0 | 112.1 | 12.8 | 90.00 | 5,941.0 | 234.3 | 766.3 | 641.6 | 124.71 | 6.145 | | |
| 13,900.0 | 7,449.0 | 7,360.0 | 7,360.0 | 113.8 | 12.8 | 90.00 | 5,941.0 | 234.3 | 810.5 | 684.0 | 126.45 | 6.409 | | |
| 14,000.0 | 7,449.0 | 7,360.0 | 7,360.0 | 115.6 | 12.8 | 90.00 | 5,941.0 | 234.3 | 864.0 | 735.8 | 128.19 | 6.740 | | |
| 14,100.0 | 7,449.0 | 7,360.0 | 7,360.0 | 117.3 | 12.8 | 90.00 | 5,941.0 | 234.3 | 925.3 | 795.3 | 129.94 | 7.121 | | |
| 14,200.0 | 7,449.0 | 7,360.0 | 7,360.0 | 119.0 | 12.8 | 90.00 | 5,941.0 | 234.3 | 992.9 | 861.2 | 131.68 | 7.540 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 73-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 7,500.0 | 7,374.3 | 7,652.4 | 7,375.5 | 14.8 | 32.6 | -15.82 | 905.1 | -575.6 | 978.1 | 951.8 | 26.34 | 37.135 | | |
| 7,600.0 | 7,415.8 | 7,693.5 | 7,416.6 | 15.0 | 32.6 | -26.11 | 905.6 | -576.1 | 889.0 | 866.5 | 22.53 | 39.453 | | |
| 7,700.0 | 7,441.0 | 7,719.5 | 7,442.6 | 15.4 | 32.6 | -48.23 | 905.9 | -576.5 | 794.4 | 770.1 | 24.33 | 32.647 | | |
| 7,800.0 | 7,449.0 | 7,729.1 | 7,452.1 | 15.9 | 32.6 | -86.17 | 906.1 | -576.6 | 697.4 | 668.4 | 29.00 | 24.050 | | |
| 7,900.0 | 7,449.0 | 7,730.4 | 7,453.5 | 16.7 | 32.7 | -86.63 | 906.1 | -576.6 | 600.8 | 571.0 | 29.79 | 20.166 | | |
| 8,000.0 | 7,449.0 | 7,731.8 | 7,454.8 | 17.5 | 32.7 | -87.09 | 906.1 | -576.7 | 505.5 | 474.7 | 30.74 | 16.445 | | |
| 8,100.0 | 7,449.0 | 7,733.1 | 7,456.2 | 18.5 | 32.7 | -87.55 | 906.1 | -576.7 | 412.4 | 380.6 | 31.81 | 12.964 | | |
| 8,200.0 | 7,449.0 | 7,734.4 | 7,457.5 | 19.6 | 32.7 | -88.00 | 906.1 | -576.7 | 323.4 | 290.5 | 32.99 | 9.805 | | |
| 8,300.0 | 7,449.0 | 7,735.7 | 7,458.8 | 20.8 | 32.7 | -88.45 | 906.1 | -576.7 | 243.2 | 209.0 | 34.25 | 7.102 | | |
| 8,400.0 | 7,449.0 | 7,737.0 | 7,460.1 | 22.1 | 32.7 | -88.91 | 906.2 | -576.7 | 183.6 | 148.0 | 35.58 | 5.160 | | |
| 8,477.3 | 7,449.0 | 7,738.1 | 7,461.1 | 23.1 | 32.7 | -89.25 | 906.2 | -576.7 | 166.5 | 129.9 | 36.65 | 4.544 | CC, ES, SF | |
| 8,500.0 | 7,449.0 | 7,738.4 | 7,461.4 | 23.4 | 32.7 | -89.35 | 906.2 | -576.7 | 168.1 | 131.1 | 36.97 | 4.547 | | |
| 8,600.0 | 7,449.0 | 7,739.6 | 7,462.7 | 24.8 | 32.7 | -89.80 | 906.2 | -576.8 | 206.9 | 168.5 | 38.40 | 5.387 | | |
| 8,700.0 | 7,449.0 | 7,740.9 | 7,464.0 | 26.2 | 32.7 | -90.24 | 906.2 | -576.8 | 278.1 | 238.2 | 39.87 | 6.974 | | |
| 8,800.0 | 7,449.0 | 7,742.2 | 7,465.3 | 27.7 | 32.7 | -90.68 | 906.2 | -576.8 | 363.1 | 321.7 | 41.37 | 8.777 | | |
| 8,900.0 | 7,449.0 | 7,743.5 | 7,466.6 | 29.2 | 32.7 | -91.12 | 906.2 | -576.8 | 454.3 | 411.4 | 42.90 | 10.590 | | |
| 9,000.0 | 7,449.0 | 7,744.8 | 7,467.8 | 30.7 | 32.7 | -91.56 | 906.3 | -576.8 | 548.5 | 504.1 | 44.45 | 12.341 | | |
| 9,100.0 | 7,449.0 | 7,746.0 | 7,469.1 | 32.3 | 32.7 | -91.99 | 906.3 | -576.8 | 644.5 | 598.5 | 46.01 | 14.007 | | |
| 9,200.0 | 7,449.0 | 7,747.3 | 7,470.4 | 33.8 | 32.7 | -92.42 | 906.3 | -576.9 | 741.6 | 694.0 | 47.59 | 15.581 | | |
| 9,300.0 | 7,449.0 | 7,748.5 | 7,471.6 | 35.4 | 32.7 | -92.85 | 906.3 | -576.9 | 839.3 | 790.1 | 49.19 | 17.064 | | |
| 9,400.0 | 7,449.0 | 7,749.8 | 7,472.9 | 37.0 | 32.7 | -93.28 | 906.3 | -576.9 | 937.5 | 886.7 | 50.79 | 18.460 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 100-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 | | |
| 10,800.0 | 7,449.0 | 7,372.7 | 7,370.9 | 60.3 | 13.0 | 90.97 | 4,186.7 | -223.2 | 980.0 | 907.2 | 72.79 | 13.463 | | |
| 10,900.0 | 7,449.0 | 7,372.4 | 7,370.5 | 62.0 | 13.0 | 90.89 | 4,186.7 | -223.2 | 883.0 | 808.5 | 74.51 | 11.851 | | |
| 11,000.0 | 7,449.0 | 7,372.0 | 7,370.2 | 63.7 | 13.0 | 90.80 | 4,186.7 | -223.2 | 786.8 | 710.6 | 76.22 | 10.322 | | |
| 11,100.0 | 7,449.0 | 7,371.7 | 7,369.8 | 65.4 | 13.0 | 90.71 | 4,186.7 | -223.1 | 691.7 | 613.7 | 77.94 | 8.874 | | |
| 11,200.0 | 7,449.0 | 7,371.3 | 7,369.4 | 67.1 | 13.0 | 90.62 | 4,186.8 | -223.1 | 598.1 | 518.5 | 79.66 | 7.508 | | |
| 11,300.0 | 7,449.0 | 7,370.9 | 7,369.1 | 68.9 | 13.0 | 90.53 | 4,186.8 | -223.1 | 507.0 | 425.7 | 81.38 | 6.230 | | |
| 11,400.0 | 7,449.0 | 7,370.6 | 7,368.7 | 70.6 | 13.0 | 90.44 | 4,186.8 | -223.1 | 420.0 | 336.9 | 83.10 | 5.054 | | |
| 11,500.0 | 7,449.0 | 7,370.2 | 7,368.4 | 72.3 | 13.0 | 90.34 | 4,186.8 | -223.1 | 340.2 | 255.4 | 84.83 | 4.011 | | |
| 11,600.0 | 7,449.0 | 7,369.9 | 7,368.0 | 74.0 | 13.0 | 90.25 | 4,186.8 | -223.1 | 274.0 | 187.5 | 86.55 | 3.166 | | |
| 11,700.0 | 7,449.0 | 7,369.5 | 7,367.6 | 75.7 | 13.0 | 90.16 | 4,186.8 | -223.1 | 233.3 | 145.0 | 88.28 | 2.643 | | |
| 11,753.3 | 7,449.0 | 7,369.3 | 7,367.4 | 76.6 | 13.0 | 90.11 | 4,186.8 | -223.1 | 227.1 | 137.9 | 89.20 | 2.546 | CC, ES, SF | |
| 11,800.0 | 7,449.0 | 7,369.1 | 7,367.3 | 77.4 | 13.0 | 90.06 | 4,186.8 | -223.1 | 231.9 | 141.9 | 90.01 | 2.576 | | |
| 11,900.0 | 7,449.0 | 7,368.7 | 7,366.9 | 79.2 | 13.0 | 89.97 | 4,186.8 | -223.1 | 270.4 | 178.6 | 91.74 | 2.947 | | |
| 12,000.0 | 7,449.0 | 7,368.4 | 7,366.5 | 80.9 | 13.0 | 89.88 | 4,186.8 | -223.1 | 335.3 | 241.8 | 93.46 | 3.588 | | |
| 12,100.0 | 7,449.0 | 7,368.0 | 7,366.1 | 82.6 | 13.0 | 89.78 | 4,186.8 | -223.1 | 414.4 | 319.3 | 95.19 | 4.354 | | |
| 12,200.0 | 7,449.0 | 7,367.6 | 7,365.7 | 84.3 | 13.0 | 89.68 | 4,186.8 | -223.1 | 501.1 | 404.2 | 96.93 | 5.170 | | |
| 12,300.0 | 7,449.0 | 7,367.2 | 7,365.4 | 86.1 | 13.0 | 89.59 | 4,186.8 | -223.1 | 592.0 | 493.3 | 98.66 | 6.000 | | |
| 12,400.0 | 7,449.0 | 7,366.8 | 7,365.0 | 87.8 | 13.0 | 89.49 | 4,186.8 | -223.1 | 685.4 | 585.0 | 100.39 | 6.827 | | |
| 12,500.0 | 7,449.0 | 7,366.4 | 7,364.6 | 89.5 | 13.0 | 89.39 | 4,186.8 | -223.1 | 780.5 | 678.3 | 102.12 | 7.642 | | |
| 12,600.0 | 7,449.0 | 7,366.1 | 7,364.2 | 91.3 | 13.0 | 89.29 | 4,186.8 | -223.1 | 876.6 | 772.8 | 103.85 | 8.441 | | |
| 12,700.0 | 7,449.0 | 7,365.7 | 7,363.8 | 93.0 | 13.0 | 89.19 | 4,186.8 | -223.1 | 973.5 | 867.9 | 105.59 | 9.220 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 100-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 9,400.0 | 7,449.0 | 7,383.0 | 7,381.0 | 37.0 | 13.0 | 89.03 | 2,729.4 | -79.6 | 961.4 | 912.2 | 49.22 | 19.532 | | |
| 9,500.0 | 7,449.0 | 7,383.9 | 7,381.9 | 38.6 | 13.0 | 89.18 | 2,729.4 | -79.6 | 869.2 | 818.3 | 50.87 | 17.087 | | |
| 9,600.0 | 7,449.0 | 7,384.8 | 7,382.9 | 40.3 | 13.0 | 89.33 | 2,729.4 | -79.6 | 778.9 | 726.3 | 52.52 | 14.829 | | |
| 9,700.0 | 7,449.0 | 7,385.8 | 7,383.8 | 41.9 | 13.1 | 89.48 | 2,729.4 | -79.6 | 691.2 | 637.0 | 54.19 | 12.755 | | |
| 9,800.0 | 7,449.0 | 7,386.7 | 7,384.8 | 43.5 | 13.1 | 89.64 | 2,729.4 | -79.6 | 607.4 | 551.5 | 55.86 | 10.873 | | |
| 9,900.0 | 7,449.0 | 7,387.6 | 7,385.7 | 45.2 | 13.1 | 89.79 | 2,729.4 | -79.6 | 529.2 | 471.6 | 57.54 | 9.197 | | |
| 10,000.0 | 7,449.0 | 7,388.6 | 7,386.6 | 46.8 | 13.1 | 89.94 | 2,729.4 | -79.6 | 459.5 | 400.3 | 59.22 | 7.759 | | |
| 10,100.0 | 7,449.0 | 7,389.5 | 7,387.5 | 48.5 | 13.1 | 90.08 | 2,729.5 | -79.6 | 402.8 | 341.9 | 60.91 | 6.614 | | |
| 10,200.0 | 7,449.0 | 7,390.4 | 7,388.4 | 50.2 | 13.1 | 90.23 | 2,729.5 | -79.6 | 365.2 | 302.6 | 62.60 | 5.834 | | |
| 10,294.4 | 7,449.0 | 7,391.2 | 7,389.3 | 51.8 | 13.1 | 90.37 | 2,729.5 | -79.6 | 352.8 | 288.6 | 64.20 | 5.496 CC | | |
| 10,300.0 | 7,449.0 | 7,391.3 | 7,389.3 | 51.9 | 13.1 | 90.38 | 2,729.5 | -79.6 | 352.9 | 288.6 | 64.30 | 5.488 ES, SF | | |
| 10,400.0 | 7,449.0 | 7,392.2 | 7,390.2 | 53.6 | 13.1 | 90.53 | 2,729.5 | -79.7 | 368.3 | 302.3 | 65.99 | 5.580 | | |
| 10,500.0 | 7,449.0 | 7,393.1 | 7,391.1 | 55.2 | 13.1 | 90.67 | 2,729.5 | -79.7 | 408.3 | 340.7 | 67.70 | 6.032 | | |
| 10,600.0 | 7,449.0 | 7,394.0 | 7,392.0 | 56.9 | 13.1 | 90.82 | 2,729.5 | -79.7 | 466.8 | 397.4 | 69.40 | 6.725 | | |
| 10,700.0 | 7,449.0 | 7,394.9 | 7,392.9 | 58.6 | 13.1 | 90.96 | 2,729.5 | -79.7 | 537.6 | 466.5 | 71.11 | 7.560 | | |
| 10,800.0 | 7,449.0 | 7,395.8 | 7,393.8 | 60.3 | 13.1 | 91.11 | 2,729.5 | -79.7 | 616.5 | 543.7 | 72.82 | 8.466 | | |
| 10,900.0 | 7,449.0 | 7,396.7 | 7,394.7 | 62.0 | 13.1 | 91.25 | 2,729.5 | -79.7 | 700.9 | 626.3 | 74.53 | 9.404 | | |
| 11,000.0 | 7,449.0 | 7,397.5 | 7,395.6 | 63.7 | 13.1 | 91.39 | 2,729.5 | -79.7 | 788.9 | 712.6 | 76.24 | 10.347 | | |
| 11,100.0 | 7,449.0 | 7,398.4 | 7,396.5 | 65.4 | 13.1 | 91.54 | 2,729.5 | -79.7 | 879.4 | 801.5 | 77.96 | 11.281 | | |
| 11,200.0 | 7,449.0 | 7,399.3 | 7,397.3 | 67.1 | 13.1 | 91.68 | 2,729.5 | -79.7 | 971.9 | 892.2 | 79.67 | 12.198 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 100-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 | 13.64 | 259.4 | 62.9 | 267.4 | | | | | |
| 100.0 | 100.0 | 86.7 | 86.7 | 0.2 | 0.2 | 13.89 | 258.7 | 64.0 | 266.5 | 266.2 | 0.30 | 874.926 | | |
| 200.0 | 200.0 | 186.3 | 186.2 | 0.3 | 0.3 | 14.53 | 256.9 | 66.6 | 265.4 | 264.8 | 0.65 | 405.484 | | |
| 246.5 | 246.5 | 232.4 | 232.3 | 0.4 | 0.4 | 148.53 | 256.3 | 67.8 | 265.2 | 264.4 | 0.83 | 319.725 CC, ES | | |
| 300.0 | 300.0 | 285.5 | 285.4 | 0.5 | 0.5 | 148.86 | 255.6 | 68.9 | 265.5 | 264.5 | 1.02 | 261.091 | | |
| 400.0 | 400.0 | 385.0 | 384.9 | 0.7 | 0.7 | 149.48 | 254.8 | 70.3 | 267.3 | 266.0 | 1.37 | 195.650 | | |
| 500.0 | 499.9 | 484.1 | 484.0 | 0.9 | 0.9 | 150.11 | 254.4 | 71.1 | 270.9 | 269.2 | 1.72 | 157.949 | | |
| 600.0 | 599.7 | 584.6 | 584.5 | 1.1 | 1.0 | 150.80 | 254.1 | 71.4 | 276.1 | 274.0 | 2.07 | 133.511 | | |
| 700.0 | 699.4 | 684.8 | 684.7 | 1.3 | 1.2 | 151.53 | 253.8 | 71.2 | 282.3 | 279.9 | 2.42 | 116.593 | | |
| 800.0 | 799.1 | 784.2 | 784.0 | 1.5 | 1.4 | 152.17 | 253.5 | 70.6 | 288.7 | 286.0 | 2.77 | 104.058 | | |
| 900.0 | 898.8 | 884.2 | 884.1 | 1.7 | 1.6 | 152.76 | 253.4 | 70.0 | 295.2 | 292.1 | 3.13 | 94.340 | | |
| 1,000.0 | 998.5 | 983.3 | 983.2 | 1.9 | 1.7 | 153.28 | 253.3 | 69.1 | 301.8 | 298.3 | 3.48 | 86.657 | | |
| 1,100.0 | 1,098.2 | 1,083.5 | 1,083.4 | 2.1 | 1.9 | 153.71 | 253.4 | 68.0 | 308.4 | 304.6 | 3.84 | 80.372 | | |
| 1,200.0 | 1,197.9 | 1,183.2 | 1,183.1 | 2.4 | 2.1 | 154.11 | 253.5 | 66.6 | 315.0 | 310.8 | 4.19 | 75.139 | | |
| 1,300.0 | 1,297.6 | 1,282.4 | 1,282.2 | 2.6 | 2.2 | 154.43 | 253.8 | 65.1 | 321.7 | 317.1 | 4.55 | 70.760 | | |
| 1,400.0 | 1,397.3 | 1,382.4 | 1,382.2 | 2.8 | 2.4 | 154.74 | 254.1 | 63.5 | 328.5 | 323.6 | 4.90 | 67.010 | | |
| 1,500.0 | 1,497.0 | 1,482.1 | 1,481.9 | 3.0 | 2.6 | 155.04 | 254.4 | 62.0 | 335.2 | 329.9 | 5.26 | 63.761 | | |
| 1,600.0 | 1,596.7 | 1,581.9 | 1,581.7 | 3.2 | 2.8 | 155.33 | 254.7 | 60.5 | 341.9 | 336.3 | 5.61 | 60.926 | | |
| 1,700.0 | 1,696.4 | 1,681.6 | 1,681.4 | 3.4 | 2.9 | 155.62 | 255.0 | 59.0 | 348.7 | 342.7 | 5.97 | 58.431 | | |
| 1,800.0 | 1,796.1 | 1,781.2 | 1,781.0 | 3.7 | 3.1 | 155.92 | 255.2 | 57.7 | 355.5 | 349.2 | 6.32 | 56.226 | | |
| 1,900.0 | 1,895.8 | 1,881.8 | 1,881.5 | 3.9 | 3.3 | 156.22 | 255.4 | 56.4 | 362.2 | 355.5 | 6.68 | 54.238 | | |
| 2,000.0 | 1,995.5 | 1,982.0 | 1,981.8 | 4.1 | 3.5 | 156.60 | 255.1 | 55.5 | 368.8 | 361.7 | 7.03 | 52.435 | | |
| 2,100.0 | 2,095.2 | 2,081.9 | 2,081.7 | 4.3 | 3.6 | 157.03 | 254.6 | 55.0 | 375.2 | 367.8 | 7.39 | 50.806 | | |
| 2,200.0 | 2,194.9 | 2,181.9 | 2,181.7 | 4.5 | 3.8 | 157.44 | 254.1 | 54.5 | 381.7 | 373.9 | 7.74 | 49.323 | | |
| 2,300.0 | 2,294.6 | 2,281.5 | 2,281.3 | 4.8 | 4.0 | 157.79 | 253.7 | 53.7 | 388.1 | 380.0 | 8.09 | 47.970 | | |
| 2,400.0 | 2,394.3 | 2,381.5 | 2,381.2 | 5.0 | 4.2 | 158.09 | 253.4 | 52.5 | 394.6 | 386.1 | 8.44 | 46.729 | | |
| 2,500.0 | 2,494.0 | 2,482.4 | 2,482.1 | 5.2 | 4.3 | 158.35 | 253.1 | 51.2 | 400.9 | 392.1 | 8.80 | 45.562 | | |
| 2,600.0 | 2,593.7 | 2,582.2 | 2,582.0 | 5.4 | 4.5 | 158.59 | 252.6 | 49.7 | 407.0 | 397.9 | 9.15 | 44.473 | | |
| 2,700.0 | 2,693.4 | 2,682.0 | 2,681.7 | 5.6 | 4.7 | 158.82 | 252.1 | 48.2 | 413.2 | 403.7 | 9.51 | 43.470 | | |
| 2,800.0 | 2,793.1 | 2,781.9 | 2,781.6 | 5.9 | 4.9 | 159.02 | 251.7 | 46.6 | 419.4 | 409.5 | 9.86 | 42.535 | | |
| 2,900.0 | 2,892.8 | 2,882.7 | 2,882.4 | 6.1 | 5.0 | 159.20 | 251.3 | 44.7 | 425.4 | 415.2 | 10.21 | 41.647 | | |
| 3,000.0 | 2,992.5 | 2,981.8 | 2,981.5 | 6.3 | 5.2 | 159.37 | 250.8 | 42.8 | 431.4 | 420.8 | 10.57 | 40.823 | | |
| 3,100.0 | 3,092.2 | 3,080.9 | 3,080.6 | 6.5 | 5.4 | 159.53 | 250.4 | 41.1 | 437.6 | 426.6 | 10.92 | 40.071 | | |
| 3,200.0 | 3,191.9 | 3,180.7 | 3,180.4 | 6.7 | 5.6 | 159.72 | 250.1 | 39.5 | 443.8 | 432.5 | 11.27 | 39.373 | | |
| 3,300.0 | 3,291.6 | 3,280.1 | 3,279.7 | 7.0 | 5.7 | 159.93 | 249.7 | 38.2 | 450.1 | 438.5 | 11.62 | 38.724 | | |
| 3,400.0 | 3,391.3 | 3,379.6 | 3,379.3 | 7.2 | 5.9 | 160.12 | 249.4 | 36.7 | 456.5 | 444.5 | 11.98 | 38.118 | | |
| 3,500.0 | 3,491.0 | 3,479.3 | 3,478.9 | 7.4 | 6.1 | 160.24 | 249.3 | 34.9 | 462.9 | 450.6 | 12.33 | 37.546 | | |
| 3,600.0 | 3,590.7 | 3,578.4 | 3,578.0 | 7.6 | 6.3 | 160.35 | 249.4 | 33.0 | 469.4 | 456.7 | 12.68 | 37.014 | | |
| 3,700.0 | 3,690.4 | 3,677.8 | 3,677.3 | 7.9 | 6.4 | 160.47 | 249.5 | 31.3 | 476.1 | 463.0 | 13.04 | 36.521 | | |
| 3,800.0 | 3,790.1 | 3,776.0 | 3,775.5 | 8.1 | 6.6 | 160.58 | 249.8 | 29.7 | 482.9 | 469.5 | 13.39 | 36.073 | | |
| 3,900.0 | 3,889.8 | 3,874.1 | 3,873.6 | 8.3 | 6.8 | 160.69 | 250.5 | 28.2 | 490.1 | 476.3 | 13.74 | 35.675 | | |
| 4,000.0 | 3,989.5 | 3,972.1 | 3,971.6 | 8.5 | 7.0 | 160.78 | 251.4 | 26.8 | 497.6 | 483.5 | 14.09 | 35.318 | | |
| 4,100.0 | 4,089.2 | 4,071.4 | 4,070.9 | 8.7 | 7.1 | 160.83 | 252.8 | 25.1 | 505.3 | 490.9 | 14.44 | 34.989 | | |
| 4,200.0 | 4,188.9 | 4,169.6 | 4,169.0 | 9.0 | 7.3 | 160.84 | 254.4 | 23.2 | 513.2 | 498.4 | 14.80 | 34.683 | | |
| 4,300.0 | 4,288.6 | 4,264.6 | 4,264.0 | 9.2 | 7.5 | 160.78 | 256.6 | 21.1 | 521.7 | 506.5 | 15.15 | 34.434 | | |
| 4,400.0 | 4,388.3 | 4,361.3 | 4,360.7 | 9.4 | 7.7 | 160.65 | 260.1 | 18.7 | 531.0 | 515.5 | 15.50 | 34.246 | | |
| 4,500.0 | 4,488.0 | 4,460.5 | 4,459.7 | 9.6 | 7.8 | 160.51 | 263.8 | 16.3 | 540.5 | 524.7 | 15.87 | 34.066 | | |
| 4,600.0 | 4,587.7 | 4,560.2 | 4,559.4 | 9.8 | 8.0 | 160.38 | 267.6 | 13.9 | 550.1 | 533.8 | 16.23 | 33.893 | | |
| 4,700.0 | 4,687.4 | 4,661.1 | 4,660.1 | 10.1 | 8.2 | 160.28 | 271.1 | 11.6 | 559.5 | 542.9 | 16.59 | 33.720 | | |
| 4,800.0 | 4,787.1 | 4,761.7 | 4,760.7 | 10.3 | 8.4 | 160.21 | 274.3 | 9.6 | 568.7 | 551.7 | 16.96 | 33.540 | | |
| 4,900.0 | 4,886.8 | 4,862.6 | 4,861.5 | 10.5 | 8.5 | 160.18 | 277.2 | 7.7 | 577.7 | 560.4 | 17.32 | 33.361 | | |
| 5,000.0 | 4,986.5 | 4,963.6 | 4,962.4 | 10.7 | 8.7 | 160.16 | 279.8 | 5.8 | 586.5 | 568.8 | 17.68 | 33.174 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 100-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,100.0 | 5,086.2 | 5,063.6 | 5,062.5 | 10.9 | 8.9 | 160.16 | 282.1 | 4.0 | 595.1 | 577.0 | 18.04 | 32.990 | | |
| 5,200.0 | 5,185.9 | 5,163.9 | 5,162.7 | 11.2 | 9.1 | 160.17 | 284.4 | 2.3 | 603.6 | 585.2 | 18.40 | 32.811 | | |
| 5,300.0 | 5,285.6 | 5,263.3 | 5,262.1 | 11.4 | 9.3 | 160.20 | 286.5 | 0.8 | 612.1 | 593.3 | 18.75 | 32.638 | | |
| 5,400.0 | 5,385.3 | 5,362.5 | 5,361.2 | 11.6 | 9.4 | 160.23 | 288.6 | -0.7 | 620.6 | 601.5 | 19.11 | 32.478 | | |
| 5,500.0 | 5,485.0 | 5,461.8 | 5,460.5 | 11.8 | 9.6 | 160.28 | 290.7 | -1.9 | 629.2 | 609.8 | 19.46 | 32.327 | | |
| 5,600.0 | 5,584.7 | 5,561.8 | 5,560.5 | 12.0 | 9.8 | 160.34 | 292.8 | -3.0 | 637.9 | 618.0 | 19.82 | 32.183 | | |
| 5,700.0 | 5,684.4 | 5,662.0 | 5,660.7 | 12.3 | 10.0 | 160.42 | 294.6 | -4.0 | 646.4 | 626.2 | 20.17 | 32.039 | | |
| 5,800.0 | 5,784.1 | 5,761.8 | 5,760.4 | 12.5 | 10.1 | 160.50 | 296.4 | -5.0 | 654.8 | 634.3 | 20.53 | 31.899 | | |
| 5,900.0 | 5,883.8 | 5,864.4 | 5,863.0 | 12.7 | 10.3 | 160.60 | 298.1 | -5.8 | 663.2 | 642.3 | 20.89 | 31.753 | | |
| 6,000.0 | 5,983.5 | 5,965.3 | 5,963.9 | 12.9 | 10.5 | 160.77 | 298.8 | -6.1 | 671.0 | 649.8 | 21.24 | 31.598 | | |
| 6,100.0 | 6,083.2 | 6,066.4 | 6,065.0 | 13.1 | 10.7 | 160.95 | 299.5 | -6.3 | 678.8 | 657.2 | 21.59 | 31.447 | | |
| 6,200.0 | 6,182.9 | 6,166.6 | 6,165.2 | 13.4 | 10.9 | 161.14 | 299.8 | -6.5 | 686.4 | 664.4 | 21.94 | 31.291 | | |
| 6,300.0 | 6,282.6 | 6,266.4 | 6,265.0 | 13.6 | 11.0 | 161.30 | 300.3 | -6.8 | 694.0 | 671.7 | 22.28 | 31.142 | | |
| 6,400.0 | 6,382.3 | 6,366.4 | 6,365.0 | 13.8 | 11.2 | 161.47 | 300.7 | -7.1 | 701.5 | 678.9 | 22.63 | 30.995 | | |
| 6,500.0 | 6,482.0 | 6,465.9 | 6,464.5 | 14.0 | 11.4 | 161.62 | 301.1 | -7.6 | 709.0 | 686.1 | 22.98 | 30.853 | | |
| 6,600.0 | 6,581.7 | 6,565.2 | 6,563.8 | 14.3 | 11.5 | 161.76 | 301.6 | -8.0 | 716.6 | 693.3 | 23.33 | 30.718 | | |
| 6,700.0 | 6,681.4 | 6,664.9 | 6,663.4 | 14.5 | 11.7 | 161.91 | 302.1 | -8.4 | 724.3 | 700.6 | 23.68 | 30.588 | | |
| 6,800.0 | 6,781.1 | 6,764.4 | 6,762.9 | 14.7 | 11.9 | 162.05 | 302.6 | -8.7 | 731.9 | 707.9 | 24.03 | 30.463 | | |
| 6,900.0 | 6,880.8 | 6,865.7 | 6,864.3 | 14.9 | 12.1 | 112.50 | 303.0 | -9.0 | 738.6 | 714.2 | 24.39 | 30.282 | | |
| 7,000.0 | 6,980.1 | 6,967.0 | 6,965.6 | 15.0 | 12.2 | 47.74 | 303.2 | -9.5 | 733.2 | 708.7 | 24.51 | 29.910 | | |
| 7,100.0 | 7,076.2 | 7,065.8 | 7,064.4 | 15.0 | 12.4 | 42.05 | 303.2 | -10.1 | 712.8 | 688.5 | 24.29 | 29.352 | | |
| 7,200.0 | 7,166.3 | 7,156.9 | 7,155.5 | 14.9 | 12.6 | 43.55 | 302.9 | -10.9 | 678.8 | 654.9 | 23.89 | 28.412 | | |
| 7,300.0 | 7,247.6 | 7,237.9 | 7,236.5 | 14.8 | 12.7 | 48.70 | 302.6 | -11.7 | 633.6 | 609.9 | 23.66 | 26.780 | | |
| 7,400.0 | 7,317.6 | 7,307.1 | 7,305.7 | 14.8 | 12.8 | 56.91 | 302.4 | -12.2 | 580.3 | 556.4 | 23.95 | 24.225 | | |
| 7,500.0 | 7,374.3 | 7,361.8 | 7,360.3 | 14.8 | 12.9 | 67.27 | 302.3 | -12.6 | 523.5 | 498.6 | 24.83 | 21.084 | | |
| 7,600.0 | 7,415.8 | 7,402.1 | 7,400.6 | 15.0 | 13.0 | 77.86 | 302.3 | -12.7 | 468.8 | 442.9 | 25.84 | 18.138 | | |
| 7,700.0 | 7,441.0 | 7,426.8 | 7,425.3 | 15.4 | 13.1 | 86.09 | 302.3 | -12.7 | 423.6 | 396.9 | 26.63 | 15.903 | | |
| 7,800.0 | 7,449.0 | 7,434.7 | 7,433.3 | 15.9 | 13.1 | 90.04 | 302.3 | -12.7 | 395.7 | 368.4 | 27.31 | 14.488 | | |
| 7,866.6 | 7,449.0 | 7,434.8 | 7,433.3 | 16.4 | 13.1 | 90.05 | 302.3 | -12.7 | 390.1 | 362.2 | 27.85 | 14.007 | | |
| 7,900.0 | 7,449.0 | 7,434.8 | 7,433.4 | 16.7 | 13.1 | 90.06 | 302.3 | -12.7 | 391.5 | 363.4 | 28.12 | 13.925 SF | | |
| 8,000.0 | 7,449.0 | 7,434.9 | 7,433.5 | 17.5 | 13.1 | 90.07 | 302.3 | -12.7 | 412.3 | 383.2 | 29.07 | 14.182 | | |
| 8,100.0 | 7,449.0 | 7,435.0 | 7,433.5 | 18.5 | 13.1 | 90.08 | 302.3 | -12.7 | 454.6 | 424.4 | 30.15 | 15.077 | | |
| 8,200.0 | 7,449.0 | 7,435.0 | 7,433.6 | 19.6 | 13.1 | 90.09 | 302.3 | -12.7 | 513.2 | 481.8 | 31.34 | 16.376 | | |
| 8,300.0 | 7,449.0 | 7,435.1 | 7,433.7 | 20.8 | 13.1 | 90.10 | 302.3 | -12.7 | 583.1 | 550.5 | 32.61 | 17.883 | | |
| 8,400.0 | 7,449.0 | 7,435.2 | 7,433.8 | 22.1 | 13.1 | 90.11 | 302.3 | -12.7 | 660.8 | 626.9 | 33.95 | 19.467 | | |
| 8,500.0 | 7,449.0 | 7,435.3 | 7,433.9 | 23.4 | 13.1 | 90.13 | 302.3 | -12.7 | 743.9 | 708.6 | 35.35 | 21.047 | | |
| 8,600.0 | 7,449.0 | 7,435.4 | 7,433.9 | 24.8 | 13.1 | 90.14 | 302.3 | -12.7 | 830.7 | 793.9 | 36.79 | 22.580 | | |
| 8,700.0 | 7,449.0 | 7,435.5 | 7,434.0 | 26.2 | 13.1 | 90.15 | 302.3 | -12.7 | 920.2 | 881.9 | 38.27 | 24.042 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|-------------------|
| Survey Program: 73-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 |
| 2,100.0 | 2,095.2 | 2,346.5 | 2,294.9 | 4.3 | 8.6 | -153.49 | 195.1 | 845.4 | 998.8 | 987.9 | 10.85 | 92.043 | |
| 2,200.0 | 2,194.9 | 2,445.0 | 2,389.8 | 4.5 | 9.1 | -152.54 | 171.2 | 833.9 | 987.2 | 975.7 | 11.49 | 85.895 | |
| 2,300.0 | 2,294.6 | 2,539.9 | 2,481.1 | 4.8 | 9.6 | -151.58 | 147.7 | 823.1 | 976.1 | 963.9 | 12.14 | 80.369 | |
| 2,400.0 | 2,394.3 | 2,656.0 | 2,592.8 | 5.0 | 10.2 | -150.43 | 119.7 | 808.9 | 964.5 | 951.6 | 12.89 | 74.843 | |
| 2,500.0 | 2,494.0 | 2,761.2 | 2,693.7 | 5.2 | 10.7 | -149.35 | 93.7 | 794.4 | 951.6 | 938.0 | 13.61 | 69.933 | |
| 2,600.0 | 2,593.7 | 2,862.9 | 2,791.1 | 5.4 | 11.3 | -148.25 | 68.0 | 780.3 | 938.8 | 924.5 | 14.33 | 65.529 | |
| 2,700.0 | 2,693.4 | 2,950.3 | 2,874.9 | 5.6 | 11.7 | -147.29 | 46.2 | 768.2 | 926.4 | 911.4 | 14.98 | 61.835 | |
| 2,800.0 | 2,793.1 | 3,036.1 | 2,957.4 | 5.9 | 12.1 | -146.34 | 25.0 | 757.4 | 915.7 | 900.1 | 15.63 | 58.578 | |
| 2,900.0 | 2,892.8 | 3,129.1 | 3,046.9 | 6.1 | 12.6 | -145.29 | 2.5 | 746.6 | 906.3 | 890.0 | 16.34 | 55.477 | |
| 3,000.0 | 2,992.5 | 3,236.1 | 3,149.6 | 6.3 | 13.2 | -143.99 | -24.7 | 734.1 | 897.0 | 879.9 | 17.16 | 52.280 | |
| 3,100.0 | 3,092.2 | 3,339.7 | 3,248.9 | 6.5 | 13.7 | -142.68 | -51.4 | 721.1 | 887.3 | 869.3 | 17.97 | 49.372 | |
| 3,200.0 | 3,191.9 | 3,437.2 | 3,342.4 | 6.7 | 14.2 | -141.46 | -75.9 | 708.4 | 877.5 | 858.7 | 18.74 | 46.821 | |
| 3,300.0 | 3,291.6 | 3,531.4 | 3,433.0 | 7.0 | 14.7 | -140.31 | -98.9 | 696.4 | 868.5 | 849.1 | 19.49 | 44.570 | |
| 3,400.0 | 3,391.3 | 3,636.9 | 3,534.6 | 7.2 | 15.2 | -139.06 | -123.8 | 682.7 | 859.8 | 839.5 | 20.29 | 42.384 | |
| 3,500.0 | 3,491.0 | 3,736.9 | 3,631.1 | 7.4 | 15.7 | -137.92 | -146.1 | 668.8 | 850.6 | 829.5 | 21.04 | 40.433 | |
| 3,600.0 | 3,590.7 | 3,812.7 | 3,704.4 | 7.6 | 16.1 | -137.10 | -162.4 | 659.1 | 842.8 | 821.2 | 21.64 | 38.942 | |
| 3,700.0 | 3,690.4 | 3,908.9 | 3,798.1 | 7.9 | 16.5 | -136.11 | -181.9 | 648.9 | 837.6 | 815.3 | 22.33 | 37.516 | |
| 3,800.0 | 3,790.1 | 4,000.4 | 3,887.6 | 8.1 | 16.8 | -135.33 | -198.0 | 639.0 | 832.4 | 809.5 | 22.93 | 36.307 | |
| 3,900.0 | 3,889.8 | 4,087.8 | 3,973.6 | 8.3 | 17.1 | -134.76 | -210.9 | 630.8 | 828.8 | 805.3 | 23.46 | 35.334 | |
| 4,000.0 | 3,989.5 | 4,181.5 | 4,066.3 | 8.5 | 17.4 | -134.27 | -222.8 | 623.2 | 826.4 | 802.4 | 23.97 | 34.478 | |
| 4,100.0 | 4,089.2 | 4,278.0 | 4,161.9 | 8.7 | 17.7 | -133.86 | -233.8 | 615.9 | 824.6 | 800.2 | 24.46 | 33.707 | |
| 4,200.0 | 4,188.9 | 4,372.4 | 4,255.6 | 9.0 | 17.9 | -133.57 | -243.0 | 609.4 | 823.5 | 798.6 | 24.91 | 33.064 | |
| 4,300.0 | 4,288.6 | 4,474.0 | 4,356.7 | 9.2 | 18.1 | -133.43 | -250.4 | 602.3 | 822.3 | 797.0 | 25.31 | 32.489 | |
| 4,379.4 | 4,367.8 | 4,543.9 | 4,426.3 | 9.4 | 18.2 | -133.44 | -254.0 | 598.1 | 821.8 | 796.3 | 25.57 | 32.138 CC | |
| 4,400.0 | 4,368.3 | 4,563.7 | 4,446.1 | 9.4 | 18.3 | -133.45 | -254.8 | 597.0 | 821.9 | 796.2 | 25.64 | 32.050 | |
| 4,500.0 | 4,488.0 | 4,661.3 | 4,543.5 | 9.6 | 18.4 | -133.51 | -259.2 | 591.9 | 822.2 | 796.2 | 25.98 | 31.641 ES | |
| 4,600.0 | 4,587.7 | 4,753.8 | 4,635.8 | 9.8 | 18.6 | -133.62 | -262.6 | 587.3 | 822.8 | 796.5 | 26.29 | 31.295 | |
| 4,700.0 | 4,687.4 | 4,841.3 | 4,723.2 | 10.1 | 18.7 | -133.82 | -264.5 | 584.5 | 825.0 | 798.4 | 26.55 | 31.070 | |
| 4,800.0 | 4,787.1 | 4,933.3 | 4,815.2 | 10.3 | 18.7 | -134.12 | -265.3 | 582.5 | 828.3 | 801.5 | 26.78 | 30.926 | |
| 4,900.0 | 4,886.8 | 5,029.9 | 4,911.8 | 10.5 | 18.8 | -134.51 | -264.9 | 581.3 | 832.5 | 805.5 | 27.00 | 30.833 | |
| 5,000.0 | 4,986.5 | 5,130.7 | 5,012.6 | 10.7 | 18.9 | -134.96 | -263.8 | 580.1 | 836.6 | 809.4 | 27.20 | 30.756 | |
| 5,100.0 | 5,086.2 | 5,231.5 | 5,113.4 | 10.9 | 19.0 | -135.43 | -262.5 | 578.7 | 840.8 | 813.3 | 27.41 | 30.674 | |
| 5,200.0 | 5,185.9 | 5,332.1 | 5,213.9 | 11.2 | 19.0 | -135.88 | -261.3 | 577.2 | 844.8 | 817.2 | 27.62 | 30.590 | |
| 5,300.0 | 5,285.6 | 5,428.3 | 5,310.2 | 11.4 | 19.1 | -136.31 | -260.0 | 575.9 | 849.0 | 821.2 | 27.82 | 30.523 | |
| 5,400.0 | 5,385.3 | 5,526.1 | 5,407.9 | 11.6 | 19.2 | -136.77 | -258.4 | 575.0 | 853.7 | 825.7 | 28.01 | 30.475 | |
| 5,500.0 | 5,485.0 | 5,628.6 | 5,510.4 | 11.8 | 19.2 | -137.25 | -256.8 | 573.9 | 858.3 | 830.1 | 28.21 | 30.422 | |
| 5,600.0 | 5,584.7 | 5,730.1 | 5,611.9 | 12.0 | 19.3 | -137.71 | -255.2 | 572.5 | 862.7 | 834.3 | 28.42 | 30.357 | |
| 5,700.0 | 5,684.4 | 5,830.7 | 5,712.4 | 12.3 | 19.4 | -138.15 | -253.7 | 571.0 | 867.0 | 838.4 | 28.63 | 30.287 | |
| 5,800.0 | 5,784.1 | 5,932.7 | 5,814.4 | 12.5 | 19.5 | -138.59 | -252.5 | 569.3 | 871.2 | 842.3 | 28.85 | 30.198 | |
| 5,900.0 | 5,883.8 | 6,034.7 | 5,916.4 | 12.7 | 19.6 | -138.98 | -251.8 | 567.3 | 875.1 | 846.0 | 29.08 | 30.094 | |
| 6,000.0 | 5,983.5 | 6,132.6 | 6,014.3 | 12.9 | 19.7 | -139.34 | -251.3 | 565.4 | 879.0 | 849.7 | 29.30 | 29.997 | |
| 6,100.0 | 6,083.2 | 6,230.6 | 6,112.3 | 13.1 | 19.8 | -139.72 | -250.5 | 563.7 | 883.2 | 853.7 | 29.53 | 29.913 | |
| 6,200.0 | 6,182.9 | 6,328.6 | 6,210.2 | 13.4 | 19.9 | -140.11 | -249.4 | 562.2 | 887.7 | 857.9 | 29.74 | 29.844 | |
| 6,300.0 | 6,282.6 | 6,426.2 | 6,307.8 | 13.6 | 20.0 | -140.51 | -248.2 | 560.8 | 892.4 | 862.4 | 29.97 | 29.779 | |
| 6,400.0 | 6,382.3 | 6,523.4 | 6,405.0 | 13.8 | 20.1 | -140.87 | -247.3 | 559.8 | 897.4 | 867.2 | 30.20 | 29.717 | |
| 6,500.0 | 6,482.0 | 6,622.0 | 6,503.7 | 14.0 | 20.2 | -141.23 | -246.7 | 558.9 | 902.6 | 872.2 | 30.43 | 29.662 | |
| 6,600.0 | 6,581.7 | 6,721.2 | 6,602.8 | 14.3 | 20.3 | -141.59 | -245.8 | 558.2 | 908.0 | 877.3 | 30.66 | 29.613 | |
| 6,700.0 | 6,681.4 | 6,820.0 | 6,701.6 | 14.5 | 20.3 | -141.95 | -244.9 | 557.5 | 913.4 | 882.5 | 30.89 | 29.567 | |
| 6,800.0 | 6,781.1 | 6,919.0 | 6,800.6 | 14.7 | 20.4 | -142.30 | -244.0 | 556.9 | 919.0 | 887.9 | 31.13 | 29.522 | |
| 6,900.0 | 6,880.8 | 7,018.8 | 6,900.5 | 14.9 | 20.5 | -142.68 | -243.3 | 556.3 | 924.6 | 893.2 | 31.34 | 29.499 | |
| 7,000.0 | 6,980.1 | 7,117.8 | 6,999.4 | 15.0 | 20.6 | -143.07 | -242.9 | 555.7 | 928.8 | 897.3 | 31.56 | 29.429 | |
| 7,100.0 | 7,076.2 | 7,213.1 | 7,094.7 | 15.0 | 20.7 | 94.98 | -242.4 | 555.3 | 931.9 | 900.0 | 31.86 | 29.249 | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|
| Survey Program: 73-Geolink MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | |
| 7,200.0 | 7,166.3 | 7,302.1 | 7,183.6 | 14.9 | 20.8 | 94.11 | -241.9 | 555.0 | 935.1 | 903.0 | 32.16 | 29.073 | |
| 7,300.0 | 7,247.6 | 7,382.2 | 7,263.8 | 14.8 | 20.9 | 94.98 | -241.3 | 554.8 | 940.5 | 908.1 | 32.39 | 29.040 SF | |
| 7,400.0 | 7,317.6 | 7,451.7 | 7,333.3 | 14.8 | 21.0 | 96.17 | -240.9 | 554.8 | 950.4 | 917.9 | 32.50 | 29.243 | |
| 7,500.0 | 7,374.3 | 7,508.2 | 7,389.8 | 14.8 | 21.0 | 96.81 | -240.4 | 554.8 | 966.8 | 934.2 | 32.57 | 29.684 | |
| 7,600.0 | 7,415.8 | 7,550.0 | 7,431.6 | 15.0 | 21.1 | 96.24 | -240.1 | 554.9 | 991.4 | 958.7 | 32.75 | 30.277 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|----------------|--------------------|--------|
| Survey Program: 5039-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 | -5.09 | 266.7 | -23.8 | 268.5 | | | | | |
| 100.0 | 100.0 | 80.0 | 80.0 | 0.2 | 0.1 | -5.09 | 266.7 | -23.8 | 267.7 | 267.4 | 0.29 | 917.877 | | |
| 200.0 | 200.0 | 180.0 | 180.0 | 0.3 | 0.3 | -5.09 | 266.7 | -23.8 | 267.7 | 267.1 | 0.64 | 417.828 CC, ES | | |
| 300.0 | 300.0 | 280.0 | 280.0 | 0.5 | 0.5 | 128.74 | 266.7 | -23.8 | 268.3 | 267.3 | 0.99 | 270.884 | | |
| 400.0 | 400.0 | 380.0 | 380.0 | 0.7 | 0.7 | 129.16 | 266.7 | -23.8 | 269.9 | 268.6 | 1.34 | 201.074 | | |
| 500.0 | 499.9 | 479.9 | 479.9 | 0.9 | 0.8 | 129.85 | 266.7 | -23.8 | 272.7 | 271.0 | 1.70 | 160.522 | | |
| 600.0 | 599.7 | 579.7 | 579.7 | 1.1 | 1.0 | 130.79 | 266.7 | -23.8 | 276.6 | 274.6 | 2.06 | 134.220 | | |
| 700.0 | 699.4 | 679.4 | 679.4 | 1.3 | 1.2 | 131.94 | 266.7 | -23.8 | 281.6 | 279.2 | 2.43 | 116.026 | | |
| 800.0 | 799.1 | 779.1 | 779.1 | 1.5 | 1.4 | 133.08 | 266.7 | -23.8 | 286.9 | 284.1 | 2.79 | 102.650 | | |
| 900.0 | 898.8 | 878.8 | 878.8 | 1.7 | 1.5 | 134.19 | 266.7 | -23.8 | 292.2 | 289.1 | 3.16 | 92.420 | | |
| 1,000.0 | 998.5 | 978.5 | 978.5 | 1.9 | 1.7 | 135.26 | 266.7 | -23.8 | 297.7 | 294.2 | 3.53 | 84.362 | | |
| 1,100.0 | 1,098.2 | 1,078.2 | 1,078.2 | 2.1 | 1.9 | 136.29 | 266.7 | -23.8 | 303.3 | 299.4 | 3.89 | 77.862 | | |
| 1,200.0 | 1,197.9 | 1,177.9 | 1,177.9 | 2.4 | 2.1 | 137.28 | 266.7 | -23.8 | 308.9 | 304.6 | 4.26 | 72.517 | | |
| 1,300.0 | 1,297.6 | 1,277.6 | 1,277.6 | 2.6 | 2.2 | 138.23 | 266.7 | -23.8 | 314.6 | 310.0 | 4.62 | 68.050 | | |
| 1,400.0 | 1,397.3 | 1,377.3 | 1,377.3 | 2.8 | 2.4 | 139.15 | 266.7 | -23.8 | 320.5 | 315.5 | 4.99 | 64.264 | | |
| 1,500.0 | 1,497.0 | 1,477.0 | 1,477.0 | 3.0 | 2.6 | 140.04 | 266.7 | -23.8 | 326.4 | 321.0 | 5.35 | 61.018 | | |
| 1,600.0 | 1,596.7 | 1,576.7 | 1,576.7 | 3.2 | 2.8 | 140.90 | 266.7 | -23.8 | 332.3 | 326.6 | 5.71 | 58.207 | | |
| 1,700.0 | 1,696.4 | 1,676.4 | 1,676.4 | 3.4 | 2.9 | 141.72 | 266.7 | -23.8 | 338.4 | 332.3 | 6.07 | 55.750 | | |
| 1,800.0 | 1,796.1 | 1,776.1 | 1,776.1 | 3.7 | 3.1 | 142.52 | 266.7 | -23.8 | 344.5 | 338.1 | 6.43 | 53.586 | | |
| 1,900.0 | 1,895.8 | 1,875.8 | 1,875.8 | 3.9 | 3.3 | 143.29 | 266.7 | -23.8 | 350.7 | 343.9 | 6.79 | 51.668 | | |
| 2,000.0 | 1,995.5 | 1,975.5 | 1,975.5 | 4.1 | 3.4 | 144.03 | 266.7 | -23.8 | 356.9 | 349.8 | 7.15 | 49.956 | | |
| 2,100.0 | 2,095.2 | 2,075.2 | 2,075.2 | 4.3 | 3.6 | 144.75 | 266.7 | -23.8 | 363.2 | 355.7 | 7.50 | 48.420 | | |
| 2,200.0 | 2,194.9 | 2,174.9 | 2,174.9 | 4.5 | 3.8 | 145.44 | 266.7 | -23.8 | 369.6 | 361.7 | 7.86 | 47.034 | | |
| 2,300.0 | 2,294.6 | 2,274.6 | 2,274.6 | 4.8 | 4.0 | 146.11 | 266.7 | -23.8 | 376.0 | 367.8 | 8.21 | 45.779 | | |
| 2,400.0 | 2,394.3 | 2,374.3 | 2,374.3 | 5.0 | 4.1 | 146.75 | 266.7 | -23.8 | 382.5 | 373.9 | 8.57 | 44.636 | | |
| 2,500.0 | 2,494.0 | 2,474.0 | 2,474.0 | 5.2 | 4.3 | 147.38 | 266.7 | -23.8 | 389.0 | 380.0 | 8.92 | 43.593 | | |
| 2,600.0 | 2,593.7 | 2,573.7 | 2,573.7 | 5.4 | 4.5 | 147.98 | 266.7 | -23.8 | 395.5 | 386.2 | 9.28 | 42.637 | | |
| 2,700.0 | 2,693.4 | 2,673.4 | 2,673.4 | 5.6 | 4.7 | 148.57 | 266.7 | -23.8 | 402.1 | 392.5 | 9.63 | 41.758 | | |
| 2,800.0 | 2,793.1 | 2,773.1 | 2,773.1 | 5.9 | 4.8 | 149.13 | 266.7 | -23.8 | 408.7 | 398.7 | 9.98 | 40.946 | | |
| 2,900.0 | 2,892.8 | 2,872.8 | 2,872.8 | 6.1 | 5.0 | 149.68 | 266.7 | -23.8 | 415.4 | 405.1 | 10.33 | 40.196 | | |
| 3,000.0 | 2,992.5 | 2,972.5 | 2,972.5 | 6.3 | 5.2 | 150.21 | 266.7 | -23.8 | 422.1 | 411.4 | 10.69 | 39.500 | | |
| 3,100.0 | 3,092.2 | 3,072.2 | 3,072.2 | 6.5 | 5.4 | 150.72 | 266.7 | -23.8 | 428.8 | 417.8 | 11.04 | 38.853 | | |
| 3,200.0 | 3,191.9 | 3,171.9 | 3,171.9 | 6.7 | 5.5 | 151.22 | 266.7 | -23.8 | 435.6 | 424.2 | 11.39 | 38.250 | | |
| 3,300.0 | 3,291.6 | 3,271.6 | 3,271.6 | 7.0 | 5.7 | 151.70 | 266.7 | -23.8 | 442.4 | 430.7 | 11.74 | 37.687 | | |
| 3,400.0 | 3,391.3 | 3,371.3 | 3,371.3 | 7.2 | 5.9 | 152.17 | 266.7 | -23.8 | 449.3 | 437.2 | 12.09 | 37.160 | | |
| 3,500.0 | 3,491.0 | 3,471.0 | 3,471.0 | 7.4 | 6.1 | 152.63 | 266.7 | -23.8 | 456.1 | 443.7 | 12.44 | 36.665 | | |
| 3,600.0 | 3,590.7 | 3,570.7 | 3,570.7 | 7.6 | 6.2 | 153.07 | 266.7 | -23.8 | 463.0 | 450.2 | 12.79 | 36.201 | | |
| 3,700.0 | 3,690.4 | 3,670.4 | 3,670.4 | 7.9 | 6.4 | 153.49 | 266.7 | -23.8 | 469.9 | 456.8 | 13.14 | 35.764 | | |
| 3,800.0 | 3,790.1 | 3,770.1 | 3,770.1 | 8.1 | 6.6 | 153.91 | 266.7 | -23.8 | 476.9 | 463.4 | 13.49 | 35.353 | | |
| 3,900.0 | 3,889.8 | 3,869.8 | 3,869.8 | 8.3 | 6.8 | 154.31 | 266.7 | -23.8 | 483.8 | 470.0 | 13.84 | 34.964 | | |
| 4,000.0 | 3,989.5 | 3,969.5 | 3,969.5 | 8.5 | 6.9 | 154.70 | 266.7 | -23.8 | 490.8 | 476.7 | 14.19 | 34.597 | | |
| 4,100.0 | 4,089.2 | 4,069.2 | 4,069.2 | 8.7 | 7.1 | 155.08 | 266.7 | -23.8 | 497.9 | 483.3 | 14.54 | 34.249 | | |
| 4,200.0 | 4,188.9 | 4,168.9 | 4,168.9 | 9.0 | 7.3 | 155.45 | 266.7 | -23.8 | 504.9 | 490.0 | 14.89 | 33.919 | | |
| 4,300.0 | 4,288.6 | 4,268.6 | 4,268.6 | 9.2 | 7.5 | 155.81 | 266.7 | -23.8 | 511.9 | 496.7 | 15.23 | 33.606 | | |
| 4,400.0 | 4,388.3 | 4,368.3 | 4,368.3 | 9.4 | 7.6 | 156.16 | 266.7 | -23.8 | 519.0 | 503.4 | 15.58 | 33.309 | | |
| 4,500.0 | 4,488.0 | 4,468.0 | 4,468.0 | 9.6 | 7.8 | 156.50 | 266.7 | -23.8 | 526.1 | 510.2 | 15.93 | 33.026 | | |
| 4,600.0 | 4,587.7 | 4,567.7 | 4,567.7 | 9.8 | 8.0 | 156.83 | 266.7 | -23.8 | 533.2 | 516.9 | 16.28 | 32.757 | | |
| 4,700.0 | 4,687.4 | 4,667.4 | 4,667.4 | 10.1 | 8.1 | 157.16 | 266.7 | -23.8 | 540.4 | 523.7 | 16.63 | 32.500 | | |
| 4,800.0 | 4,787.1 | 4,767.1 | 4,767.1 | 10.3 | 8.3 | 157.47 | 266.7 | -23.8 | 547.5 | 530.5 | 16.97 | 32.255 | | |
| 4,900.0 | 4,886.8 | 4,866.8 | 4,866.8 | 10.5 | 8.5 | 157.78 | 266.7 | -23.8 | 554.7 | 537.3 | 17.32 | 32.020 | | |
| 5,000.0 | 4,986.5 | 4,966.5 | 4,966.5 | 10.7 | 8.7 | 158.08 | 266.7 | -23.8 | 561.8 | 544.2 | 17.67 | 31.796 | | |
| 5,100.0 | 5,086.2 | 5,039.0 | 5,039.0 | 10.9 | 8.8 | 158.29 | 266.7 | -23.8 | 569.7 | 551.7 | 17.97 | 31.698 SF | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 5039-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) | | | | |
| 5,200.0 | 5,185.9 | 5,039.0 | 5,039.0 | 11.2 | 8.8 | 158.29 | 266.7 | -23.8 | 590.0 | 571.9 | 18.15 | 32.502 | | |
| 5,300.0 | 5,285.6 | 5,039.0 | 5,039.0 | 11.4 | 8.8 | 158.29 | 266.7 | -23.8 | 625.9 | 607.6 | 18.34 | 34.136 | | |
| 5,400.0 | 5,385.3 | 5,039.0 | 5,039.0 | 11.6 | 8.8 | 158.29 | 266.7 | -23.8 | 674.8 | 656.3 | 18.52 | 36.442 | | |
| 5,500.0 | 5,485.0 | 5,039.0 | 5,039.0 | 11.8 | 8.8 | 158.29 | 266.7 | -23.8 | 734.2 | 715.5 | 18.70 | 39.262 | | |
| 5,600.0 | 5,584.7 | 5,039.0 | 5,039.0 | 12.0 | 8.8 | 158.29 | 266.7 | -23.8 | 801.6 | 782.7 | 18.88 | 42.458 | | |
| 5,700.0 | 5,684.4 | 5,039.0 | 5,039.0 | 12.3 | 8.8 | 158.29 | 266.7 | -23.8 | 875.3 | 856.3 | 19.06 | 45.920 | | |
| 5,800.0 | 5,784.1 | 5,039.0 | 5,039.0 | 12.5 | 8.8 | 158.29 | 266.7 | -23.8 | 953.8 | 934.6 | 19.24 | 49.566 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3 | | | | | | | | | | | | | 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 | 90.02 | 0.0 | 10.1 | 10.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 90.02 | 0.0 | 10.1 | 10.1 | 9.8 | 0.30 | 33.153 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.02 | 0.0 | 10.1 | 10.1 | 9.4 | 0.65 | 15.424 CC | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -139.51 | 0.0 | 10.1 | 10.7 | 9.7 | 1.00 | 10.693 | | |
| 400.0 | 400.0 | 400.1 | 400.1 | 0.7 | 0.7 | -144.14 | -0.7 | 9.6 | 12.2 | 10.9 | 1.35 | 9.044 | | |
| 500.0 | 499.9 | 500.2 | 500.2 | 0.9 | 0.9 | -146.37 | -3.0 | 8.2 | 14.1 | 12.4 | 1.71 | 8.252 | | |
| 600.0 | 599.7 | 600.4 | 600.3 | 1.1 | 1.0 | -146.91 | -6.7 | 5.9 | 16.2 | 14.2 | 2.07 | 7.844 | | |
| 700.0 | 699.4 | 700.5 | 700.2 | 1.3 | 1.2 | -146.18 | -11.7 | 2.7 | 18.5 | 16.1 | 2.44 | 7.589 | | |
| 800.0 | 799.1 | 800.5 | 799.9 | 1.5 | 1.4 | -145.25 | -17.0 | -0.7 | 20.8 | 17.9 | 2.82 | 7.366 | | |
| 900.0 | 898.8 | 900.4 | 899.7 | 1.7 | 1.6 | -144.51 | -22.3 | -4.0 | 23.0 | 19.8 | 3.20 | 7.190 | | |
| 1,000.0 | 998.5 | 1,000.4 | 999.5 | 1.9 | 1.8 | -143.89 | -27.6 | -7.4 | 25.2 | 21.6 | 3.58 | 7.047 | | |
| 1,100.0 | 1,098.2 | 1,100.4 | 1,099.3 | 2.1 | 2.0 | -143.38 | -32.9 | -10.7 | 27.5 | 23.5 | 3.96 | 6.928 | | |
| 1,200.0 | 1,197.9 | 1,200.4 | 1,199.1 | 2.4 | 2.2 | -142.94 | -38.2 | -14.1 | 29.7 | 25.4 | 4.35 | 6.829 | | |
| 1,300.0 | 1,297.6 | 1,300.3 | 1,298.8 | 2.6 | 2.4 | -142.57 | -43.5 | -17.4 | 32.0 | 27.2 | 4.74 | 6.745 | | |
| 1,400.0 | 1,397.3 | 1,400.3 | 1,398.6 | 2.8 | 2.6 | -142.24 | -48.8 | -20.8 | 34.2 | 29.1 | 5.13 | 6.672 | | |
| 1,500.0 | 1,497.0 | 1,500.3 | 1,498.4 | 3.0 | 2.8 | -141.95 | -54.1 | -24.1 | 36.4 | 30.9 | 5.51 | 6.609 | | |
| 1,600.0 | 1,596.7 | 1,600.3 | 1,598.2 | 3.2 | 3.1 | -141.70 | -59.4 | -27.5 | 38.7 | 32.8 | 5.90 | 6.554 | | |
| 1,700.0 | 1,696.4 | 1,700.2 | 1,697.9 | 3.4 | 3.3 | -141.48 | -64.7 | -30.8 | 40.9 | 34.6 | 6.29 | 6.505 | | |
| 1,800.0 | 1,796.1 | 1,800.2 | 1,797.7 | 3.7 | 3.5 | -141.27 | -70.0 | -34.2 | 43.2 | 36.5 | 6.68 | 6.461 | | |
| 1,900.0 | 1,895.8 | 1,900.2 | 1,897.5 | 3.9 | 3.7 | -141.09 | -75.3 | -37.5 | 45.4 | 38.4 | 7.07 | 6.422 | | |
| 2,000.0 | 1,995.5 | 2,000.2 | 1,997.3 | 4.1 | 3.9 | -140.93 | -80.6 | -40.9 | 47.7 | 40.2 | 7.46 | 6.387 | | |
| 2,100.0 | 2,095.2 | 2,100.1 | 2,097.1 | 4.3 | 4.1 | -140.78 | -85.9 | -44.2 | 49.9 | 42.1 | 7.86 | 6.355 | | |
| 2,200.0 | 2,194.9 | 2,200.1 | 2,196.8 | 4.5 | 4.3 | -140.64 | -91.2 | -47.5 | 52.2 | 43.9 | 8.25 | 6.326 | | |
| 2,300.0 | 2,294.6 | 2,300.1 | 2,296.6 | 4.8 | 4.5 | -140.52 | -96.5 | -50.9 | 54.4 | 45.8 | 8.64 | 6.300 | | |
| 2,400.0 | 2,394.3 | 2,400.1 | 2,396.4 | 5.0 | 4.7 | -140.40 | -101.8 | -54.2 | 56.7 | 47.6 | 9.03 | 6.276 | | |
| 2,500.0 | 2,494.0 | 2,500.0 | 2,496.2 | 5.2 | 4.9 | -140.29 | -107.1 | -57.6 | 58.9 | 49.5 | 9.42 | 6.253 | | |
| 2,600.0 | 2,593.7 | 2,600.0 | 2,596.0 | 5.4 | 5.1 | -140.20 | -112.4 | -60.9 | 61.2 | 51.4 | 9.81 | 6.233 | | |
| 2,700.0 | 2,693.4 | 2,700.0 | 2,695.7 | 5.6 | 5.3 | -140.10 | -117.7 | -64.3 | 63.4 | 53.2 | 10.21 | 6.214 | | |
| 2,800.0 | 2,793.1 | 2,800.0 | 2,795.5 | 5.9 | 5.5 | -140.02 | -123.0 | -67.6 | 65.7 | 55.1 | 10.60 | 6.196 | | |
| 2,900.0 | 2,892.8 | 2,899.9 | 2,895.3 | 6.1 | 5.7 | -139.94 | -128.2 | -71.0 | 67.9 | 56.9 | 10.99 | 6.179 | | |
| 3,000.0 | 2,992.5 | 2,999.9 | 2,995.1 | 6.3 | 5.9 | -139.86 | -133.5 | -74.3 | 70.2 | 58.8 | 11.38 | 6.164 | | |
| 3,100.0 | 3,092.2 | 3,099.9 | 3,094.8 | 6.5 | 6.1 | -139.79 | -138.8 | -77.7 | 72.4 | 60.6 | 11.78 | 6.150 | | |
| 3,200.0 | 3,191.9 | 3,199.9 | 3,194.6 | 6.7 | 6.3 | -139.73 | -144.1 | -81.0 | 74.7 | 62.5 | 12.17 | 6.136 | | |
| 3,300.0 | 3,291.6 | 3,299.8 | 3,294.4 | 7.0 | 6.5 | -139.67 | -149.4 | -84.4 | 76.9 | 64.4 | 12.56 | 6.123 | | |
| 3,400.0 | 3,391.3 | 3,399.8 | 3,394.2 | 7.2 | 6.7 | -139.61 | -154.7 | -87.7 | 79.2 | 66.2 | 12.95 | 6.111 | | |
| 3,500.0 | 3,491.0 | 3,499.8 | 3,494.0 | 7.4 | 7.0 | -139.55 | -160.0 | -91.1 | 81.4 | 68.1 | 13.35 | 6.100 | | |
| 3,600.0 | 3,590.7 | 3,599.7 | 3,593.7 | 7.6 | 7.2 | -139.50 | -165.3 | -94.4 | 83.7 | 69.9 | 13.74 | 6.089 | | |
| 3,700.0 | 3,690.4 | 3,699.7 | 3,693.5 | 7.9 | 7.4 | -139.45 | -170.6 | -97.8 | 85.9 | 71.8 | 14.13 | 6.079 | | |
| 3,800.0 | 3,790.1 | 3,799.7 | 3,793.3 | 8.1 | 7.6 | -139.40 | -175.9 | -101.1 | 88.2 | 73.6 | 14.53 | 6.070 | | |
| 3,900.0 | 3,889.8 | 3,899.7 | 3,893.1 | 8.3 | 7.8 | -139.36 | -181.2 | -104.5 | 90.4 | 75.5 | 14.92 | 6.061 | | |
| 4,000.0 | 3,989.5 | 3,999.6 | 3,992.8 | 8.5 | 8.0 | -139.32 | -186.5 | -107.8 | 92.7 | 77.4 | 15.31 | 6.052 | | |
| 4,100.0 | 4,089.2 | 4,099.6 | 4,092.6 | 8.7 | 8.2 | -139.27 | -191.8 | -111.2 | 94.9 | 79.2 | 15.70 | 6.044 | | |
| 4,200.0 | 4,188.9 | 4,199.6 | 4,192.4 | 9.0 | 8.4 | -139.24 | -197.1 | -114.5 | 97.2 | 81.1 | 16.10 | 6.036 | | |
| 4,300.0 | 4,288.6 | 4,299.6 | 4,292.2 | 9.2 | 8.6 | -139.20 | -202.4 | -117.9 | 99.4 | 82.9 | 16.49 | 6.029 | | |
| 4,400.0 | 4,388.3 | 4,399.5 | 4,392.0 | 9.4 | 8.8 | -139.16 | -207.7 | -121.2 | 101.7 | 84.8 | 16.88 | 6.022 | | |
| 4,500.0 | 4,488.0 | 4,499.5 | 4,491.7 | 9.6 | 9.0 | -139.13 | -213.0 | -124.5 | 103.9 | 86.6 | 17.28 | 6.015 | | |
| 4,600.0 | 4,587.7 | 4,599.5 | 4,591.5 | 9.8 | 9.2 | -139.10 | -218.3 | -127.9 | 106.2 | 88.5 | 17.67 | 6.008 | | |
| 4,700.0 | 4,687.4 | 4,699.5 | 4,691.3 | 10.1 | 9.4 | -139.07 | -223.6 | -131.2 | 108.4 | 90.4 | 18.06 | 6.002 | | |
| 4,800.0 | 4,787.1 | 4,799.4 | 4,791.1 | 10.3 | 9.6 | -139.04 | -228.9 | -134.6 | 110.7 | 92.2 | 18.46 | 5.996 | | |
| 4,900.0 | 4,886.8 | 4,899.4 | 4,890.8 | 10.5 | 9.8 | -139.01 | -234.2 | -137.9 | 112.9 | 94.1 | 18.85 | 5.991 | | |
| 5,000.0 | 4,986.5 | 4,999.4 | 4,990.6 | 10.7 | 10.0 | -138.98 | -239.5 | -141.3 | 115.2 | 95.9 | 19.24 | 5.985 | | |
| 5,100.0 | 5,086.2 | 5,099.4 | 5,090.4 | 10.9 | 10.2 | -138.95 | -244.8 | -144.6 | 117.4 | 97.8 | 19.64 | 5.980 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,200.0 | 5,185.9 | 5,199.3 | 5,190.2 | 11.2 | 10.4 | -138.93 | -250.1 | -148.0 | 119.7 | 99.6 | 20.03 | 5.975 | | |
| 5,300.0 | 5,285.6 | 5,299.3 | 5,290.0 | 11.4 | 10.7 | -138.91 | -255.4 | -151.3 | 121.9 | 101.5 | 20.42 | 5.970 | | |
| 5,400.0 | 5,385.3 | 5,399.3 | 5,389.7 | 11.6 | 10.9 | -138.88 | -260.7 | -154.7 | 124.2 | 103.4 | 20.82 | 5.965 | | |
| 5,500.0 | 5,485.0 | 5,499.3 | 5,489.5 | 11.8 | 11.1 | -138.86 | -266.0 | -158.0 | 126.4 | 105.2 | 21.21 | 5.961 | | |
| 5,600.0 | 5,584.7 | 5,599.2 | 5,589.3 | 12.0 | 11.3 | -138.84 | -271.3 | -161.4 | 128.7 | 107.1 | 21.60 | 5.956 | | |
| 5,700.0 | 5,684.4 | 5,699.2 | 5,689.1 | 12.3 | 11.5 | -138.82 | -276.6 | -164.7 | 130.9 | 108.9 | 22.00 | 5.952 | | |
| 5,800.0 | 5,784.1 | 5,799.2 | 5,788.8 | 12.5 | 11.7 | -138.80 | -281.9 | -168.1 | 133.2 | 110.8 | 22.39 | 5.948 | | |
| 5,900.0 | 5,883.8 | 5,899.2 | 5,888.6 | 12.7 | 11.9 | -138.78 | -287.2 | -171.4 | 135.4 | 112.7 | 22.79 | 5.944 | | |
| 6,000.0 | 5,983.5 | 5,999.1 | 5,988.4 | 12.9 | 12.1 | -138.76 | -292.5 | -174.8 | 137.7 | 114.5 | 23.18 | 5.940 | | |
| 6,100.0 | 6,083.2 | 6,099.1 | 6,088.2 | 13.1 | 12.3 | -138.74 | -297.8 | -178.1 | 139.9 | 116.4 | 23.57 | 5.937 | | |
| 6,200.0 | 6,182.9 | 6,199.1 | 6,188.0 | 13.4 | 12.5 | -138.72 | -303.1 | -181.5 | 142.2 | 118.2 | 23.97 | 5.933 | | |
| 6,300.0 | 6,282.6 | 6,299.1 | 6,287.7 | 13.6 | 12.7 | -138.70 | -308.4 | -184.8 | 144.4 | 120.1 | 24.36 | 5.930 | | |
| 6,400.0 | 6,382.3 | 6,399.0 | 6,387.5 | 13.8 | 12.9 | -138.69 | -313.7 | -188.2 | 146.7 | 121.9 | 24.75 | 5.926 | | |
| 6,500.0 | 6,482.0 | 6,499.0 | 6,487.3 | 14.0 | 13.1 | -138.67 | -319.0 | -191.5 | 148.9 | 123.8 | 25.15 | 5.923 | | |
| 6,600.0 | 6,581.7 | 6,599.0 | 6,587.1 | 14.3 | 13.3 | -138.65 | -324.2 | -194.9 | 151.2 | 125.7 | 25.54 | 5.920 | | |
| 6,700.0 | 6,681.4 | 6,699.0 | 6,686.9 | 14.5 | 13.5 | -138.64 | -329.5 | -198.2 | 153.4 | 127.5 | 25.93 | 5.917 | | |
| 6,800.0 | 6,781.1 | 6,798.9 | 6,786.6 | 14.7 | 13.7 | -138.62 | -334.8 | -201.6 | 155.7 | 129.4 | 26.33 | 5.914 | | |
| 6,900.0 | 6,880.8 | 6,898.9 | 6,886.4 | 14.9 | 13.9 | 172.02 | -340.1 | -204.9 | 157.9 | 131.2 | 26.73 | 5.908 | | |
| 7,000.0 | 6,980.1 | 6,997.7 | 6,985.0 | 15.0 | 14.2 | 111.16 | -345.4 | -208.2 | 160.5 | 133.2 | 27.35 | 5.870 | | |
| 7,100.0 | 7,076.2 | 7,099.0 | 7,086.0 | 15.0 | 14.3 | 110.42 | -341.7 | -211.7 | 165.9 | 138.1 | 27.77 | 5.973 | | |
| 7,200.0 | 7,166.3 | 7,204.8 | 7,189.1 | 14.9 | 14.2 | 114.35 | -318.9 | -215.4 | 173.9 | 146.3 | 27.61 | 6.298 | | |
| 7,300.0 | 7,247.6 | 7,315.5 | 7,290.6 | 14.8 | 14.1 | 118.77 | -275.2 | -219.4 | 183.5 | 156.7 | 26.88 | 6.828 | | |
| 7,400.0 | 7,317.6 | 7,431.3 | 7,385.6 | 14.8 | 14.0 | 122.70 | -209.5 | -223.3 | 193.7 | 167.9 | 25.79 | 7.510 | | |
| 7,500.0 | 7,374.3 | 7,552.0 | 7,468.6 | 14.8 | 13.9 | 125.81 | -122.2 | -227.0 | 203.1 | 178.4 | 24.67 | 8.230 | | |
| 7,600.0 | 7,415.8 | 7,677.0 | 7,533.3 | 15.0 | 14.0 | 128.01 | -15.6 | -230.4 | 210.6 | 186.6 | 23.97 | 8.785 | | |
| 7,700.0 | 7,441.0 | 7,805.3 | 7,574.1 | 15.4 | 14.4 | 129.25 | 105.7 | -233.0 | 215.3 | 191.3 | 24.05 | 8.952 | | |
| 7,800.0 | 7,449.0 | 7,933.2 | 7,587.0 | 15.9 | 15.2 | 129.54 | 232.7 | -234.8 | 216.8 | 191.6 | 25.15 | 8.618 | | |
| 7,900.0 | 7,449.0 | 8,033.2 | 7,587.0 | 16.7 | 15.9 | 129.51 | 332.7 | -235.8 | 216.9 | 190.5 | 26.41 | 8.212 | | |
| 8,000.0 | 7,449.0 | 8,133.2 | 7,587.0 | 17.5 | 16.8 | 129.48 | 432.7 | -236.9 | 217.0 | 189.2 | 27.88 | 7.786 | | |
| 8,100.0 | 7,449.0 | 8,233.2 | 7,587.0 | 18.5 | 17.9 | 129.45 | 532.7 | -237.9 | 217.2 | 187.7 | 29.52 | 7.357 | | |
| 8,200.0 | 7,449.0 | 8,333.2 | 7,587.0 | 19.6 | 19.0 | 129.42 | 632.7 | -239.0 | 217.3 | 186.0 | 31.31 | 6.940 | | |
| 8,300.0 | 7,449.0 | 8,433.2 | 7,587.0 | 20.8 | 20.2 | 129.39 | 732.7 | -240.0 | 217.4 | 184.2 | 33.24 | 6.542 | | |
| 8,400.0 | 7,449.0 | 8,533.2 | 7,587.0 | 22.1 | 21.5 | 129.36 | 832.7 | -241.1 | 217.6 | 182.3 | 35.27 | 6.169 | | |
| 8,500.0 | 7,449.0 | 8,633.2 | 7,587.0 | 23.4 | 22.9 | 129.34 | 932.7 | -242.1 | 217.7 | 180.3 | 37.39 | 5.822 | | |
| 8,600.0 | 7,449.0 | 8,733.2 | 7,587.0 | 24.8 | 24.3 | 129.31 | 1,032.7 | -243.2 | 217.8 | 178.3 | 39.59 | 5.502 | | |
| 8,700.0 | 7,449.0 | 8,833.2 | 7,587.0 | 26.2 | 25.8 | 129.28 | 1,132.7 | -244.2 | 218.0 | 176.1 | 41.86 | 5.208 | | |
| 8,800.0 | 7,449.0 | 8,933.2 | 7,587.0 | 27.7 | 27.3 | 129.25 | 1,232.7 | -245.3 | 218.1 | 173.9 | 44.18 | 4.937 | | |
| 8,900.0 | 7,449.0 | 9,033.2 | 7,587.0 | 29.2 | 28.8 | 129.22 | 1,332.6 | -246.3 | 218.3 | 171.7 | 46.54 | 4.689 | | |
| 9,000.0 | 7,449.0 | 9,133.2 | 7,587.0 | 30.7 | 30.3 | 129.19 | 1,432.6 | -247.4 | 218.4 | 169.4 | 48.95 | 4.461 | | |
| 9,100.0 | 7,449.0 | 9,233.2 | 7,587.0 | 32.3 | 31.9 | 129.16 | 1,532.6 | -248.4 | 218.5 | 167.1 | 51.40 | 4.252 | | |
| 9,200.0 | 7,449.0 | 9,333.2 | 7,587.0 | 33.8 | 33.5 | 129.13 | 1,632.6 | -249.5 | 218.7 | 164.8 | 53.87 | 4.059 | | |
| 9,300.0 | 7,449.0 | 9,433.2 | 7,587.0 | 35.4 | 35.1 | 129.10 | 1,732.6 | -250.5 | 218.8 | 162.4 | 56.38 | 3.881 | | |
| 9,400.0 | 7,449.0 | 9,533.2 | 7,587.0 | 37.0 | 36.7 | 129.08 | 1,832.6 | -251.6 | 218.9 | 160.0 | 58.90 | 3.717 | | |
| 9,500.0 | 7,449.0 | 9,633.2 | 7,587.0 | 38.6 | 38.3 | 129.05 | 1,932.6 | -252.6 | 219.1 | 157.6 | 61.45 | 3.565 | | |
| 9,600.0 | 7,449.0 | 9,733.2 | 7,587.0 | 40.3 | 40.0 | 129.02 | 2,032.6 | -253.6 | 219.2 | 155.2 | 64.02 | 3.424 | | |
| 9,700.0 | 7,449.0 | 9,833.2 | 7,587.0 | 41.9 | 41.6 | 128.99 | 2,132.6 | -254.7 | 219.3 | 152.7 | 66.60 | 3.293 | | |
| 9,800.0 | 7,449.0 | 9,933.2 | 7,587.0 | 43.5 | 43.3 | 128.96 | 2,232.6 | -255.7 | 219.5 | 150.3 | 69.20 | 3.171 | | |
| 9,900.0 | 7,449.0 | 10,033.2 | 7,587.0 | 45.2 | 44.9 | 128.93 | 2,332.6 | -256.8 | 219.6 | 147.8 | 71.82 | 3.058 | | |
| 10,000.0 | 7,449.0 | 10,133.2 | 7,587.0 | 46.8 | 46.6 | 128.90 | 2,432.6 | -257.8 | 219.7 | 145.3 | 74.44 | 2.952 | | |
| 10,100.0 | 7,449.0 | 10,233.2 | 7,587.0 | 48.5 | 48.3 | 128.87 | 2,532.6 | -258.9 | 219.9 | 142.8 | 77.08 | 2.853 | | |
| 10,200.0 | 7,449.0 | 10,333.2 | 7,587.0 | 50.2 | 50.0 | 128.85 | 2,632.6 | -259.9 | 220.0 | 140.3 | 79.73 | 2.759 | | |
| 10,300.0 | 7,449.0 | 10,433.2 | 7,587.0 | 51.9 | 51.6 | 128.82 | 2,732.6 | -261.0 | 220.2 | 137.8 | 82.39 | 2.672 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | | | |
| 10,400.0 | 7,449.0 | 10,533.2 | 7,587.0 | 53.6 | 53.3 | 128.79 | 2,832.6 | -262.0 | 220.3 | 135.2 | 85.06 | 2.590 | | |
| 10,500.0 | 7,449.0 | 10,633.2 | 7,587.0 | 55.2 | 55.0 | 128.76 | 2,932.6 | -263.1 | 220.4 | 132.7 | 87.73 | 2.512 | | |
| 10,600.0 | 7,449.0 | 10,733.2 | 7,587.0 | 56.9 | 56.7 | 128.73 | 3,032.5 | -264.1 | 220.6 | 130.1 | 90.42 | 2.439 | | |
| 10,700.0 | 7,449.0 | 10,833.2 | 7,587.0 | 58.6 | 58.4 | 128.70 | 3,132.5 | -265.2 | 220.7 | 127.6 | 93.11 | 2.370 | | |
| 10,800.0 | 7,449.0 | 10,933.2 | 7,587.0 | 60.3 | 60.1 | 128.68 | 3,232.5 | -266.2 | 220.8 | 125.0 | 95.81 | 2.305 | | |
| 10,900.0 | 7,449.0 | 11,033.2 | 7,587.0 | 62.0 | 61.8 | 128.65 | 3,332.5 | -267.3 | 221.0 | 122.5 | 98.52 | 2.243 | | |
| 11,000.0 | 7,449.0 | 11,133.2 | 7,587.0 | 63.7 | 63.6 | 128.62 | 3,432.5 | -268.3 | 221.1 | 119.9 | 101.23 | 2.184 | | |
| 11,100.0 | 7,449.0 | 11,233.2 | 7,587.0 | 65.4 | 65.3 | 128.59 | 3,532.5 | -269.4 | 221.2 | 117.3 | 103.95 | 2.128 | | |
| 11,200.0 | 7,449.0 | 11,333.2 | 7,587.0 | 67.1 | 67.0 | 128.56 | 3,632.5 | -270.4 | 221.4 | 114.7 | 106.67 | 2.075 | | |
| 11,300.0 | 7,449.0 | 11,433.2 | 7,587.0 | 68.9 | 68.7 | 128.53 | 3,732.5 | -271.4 | 221.5 | 112.1 | 109.40 | 2.025 | | |
| 11,400.0 | 7,449.0 | 11,533.2 | 7,587.0 | 70.6 | 70.4 | 128.51 | 3,832.5 | -272.5 | 221.6 | 109.5 | 112.14 | 1.977 | | |
| 11,500.0 | 7,449.0 | 11,633.2 | 7,587.0 | 72.3 | 72.1 | 128.48 | 3,932.5 | -273.5 | 221.8 | 106.9 | 114.87 | 1.931 | | |
| 11,600.0 | 7,449.0 | 11,733.2 | 7,587.0 | 74.0 | 73.9 | 128.45 | 4,032.5 | -274.6 | 221.9 | 104.3 | 117.62 | 1.887 | | |
| 11,700.0 | 7,449.0 | 11,833.2 | 7,587.0 | 75.7 | 75.6 | 128.42 | 4,132.5 | -275.6 | 222.1 | 101.7 | 120.37 | 1.845 | | |
| 11,800.0 | 7,449.0 | 11,933.2 | 7,587.0 | 77.4 | 77.3 | 128.39 | 4,232.5 | -276.7 | 222.2 | 99.1 | 123.12 | 1.805 | | |
| 11,900.0 | 7,449.0 | 12,033.2 | 7,587.0 | 79.2 | 79.0 | 128.37 | 4,332.5 | -277.7 | 222.3 | 96.5 | 125.88 | 1.766 | | |
| 12,000.0 | 7,449.0 | 12,133.2 | 7,587.0 | 80.9 | 80.8 | 128.34 | 4,432.5 | -278.8 | 222.5 | 93.8 | 128.64 | 1.729 | | |
| 12,100.0 | 7,449.0 | 12,233.2 | 7,587.0 | 82.6 | 82.5 | 128.31 | 4,532.5 | -279.8 | 222.6 | 91.2 | 131.40 | 1.694 | | |
| 12,200.0 | 7,449.0 | 12,333.2 | 7,587.0 | 84.3 | 84.2 | 128.28 | 4,632.5 | -280.9 | 222.7 | 88.6 | 134.17 | 1.660 | | |
| 12,300.0 | 7,449.0 | 12,433.2 | 7,587.0 | 86.1 | 85.9 | 128.26 | 4,732.5 | -281.9 | 222.9 | 85.9 | 136.94 | 1.628 | | |
| 12,400.0 | 7,449.0 | 12,533.2 | 7,587.0 | 87.8 | 87.7 | 128.23 | 4,832.4 | -283.0 | 223.0 | 83.3 | 139.72 | 1.596 | | |
| 12,500.0 | 7,449.0 | 12,633.2 | 7,587.0 | 89.5 | 89.4 | 128.20 | 4,932.4 | -284.0 | 223.2 | 80.7 | 142.50 | 1.566 | | |
| 12,600.0 | 7,449.0 | 12,733.2 | 7,587.0 | 91.3 | 91.1 | 128.17 | 5,032.4 | -285.1 | 223.3 | 78.0 | 145.28 | 1.537 | | |
| 12,700.0 | 7,449.0 | 12,833.2 | 7,587.0 | 93.0 | 92.9 | 128.14 | 5,132.4 | -286.1 | 223.4 | 75.4 | 148.07 | 1.509 | | |
| 12,800.0 | 7,449.0 | 12,933.2 | 7,587.0 | 94.7 | 94.6 | 128.12 | 5,232.4 | -287.2 | 223.6 | 72.7 | 150.86 | 1.482 Level 3 | | |
| 12,900.0 | 7,449.0 | 13,033.2 | 7,587.0 | 96.5 | 96.3 | 128.09 | 5,332.4 | -288.2 | 223.7 | 70.1 | 153.65 | 1.456 Level 3 | | |
| 13,000.0 | 7,449.0 | 13,133.2 | 7,587.0 | 98.2 | 98.1 | 128.06 | 5,432.4 | -289.3 | 223.8 | 67.4 | 156.44 | 1.431 Level 3 | | |
| 13,100.0 | 7,449.0 | 13,233.2 | 7,587.0 | 99.9 | 99.8 | 128.03 | 5,532.4 | -290.3 | 224.0 | 64.7 | 159.24 | 1.407 Level 3 | | |
| 13,200.0 | 7,449.0 | 13,333.2 | 7,587.0 | 101.7 | 101.6 | 128.01 | 5,632.4 | -291.3 | 224.1 | 62.1 | 162.04 | 1.383 Level 3 | | |
| 13,300.0 | 7,449.0 | 13,433.2 | 7,587.0 | 103.4 | 103.3 | 127.98 | 5,732.4 | -292.4 | 224.3 | 59.4 | 164.85 | 1.360 Level 3 | | |
| 13,400.0 | 7,449.0 | 13,533.2 | 7,587.0 | 105.1 | 105.0 | 127.95 | 5,832.4 | -293.4 | 224.4 | 56.7 | 167.65 | 1.338 Level 3 | | |
| 13,500.0 | 7,449.0 | 13,633.2 | 7,587.0 | 106.9 | 106.8 | 127.92 | 5,932.4 | -294.5 | 224.5 | 54.1 | 170.46 | 1.317 Level 3 | | |
| 13,600.0 | 7,449.0 | 13,733.2 | 7,587.0 | 108.6 | 108.5 | 127.90 | 6,032.4 | -295.5 | 224.7 | 51.4 | 173.28 | 1.297 Level 3 | | |
| 13,700.0 | 7,449.0 | 13,833.2 | 7,587.0 | 110.3 | 110.2 | 127.87 | 6,132.4 | -296.6 | 224.8 | 48.7 | 176.09 | 1.277 Level 3 | | |
| 13,800.0 | 7,449.0 | 13,933.2 | 7,587.0 | 112.1 | 112.0 | 127.84 | 6,232.4 | -297.6 | 224.9 | 46.0 | 178.91 | 1.257 Level 3 | | |
| 13,900.0 | 7,449.0 | 14,033.2 | 7,587.0 | 113.8 | 113.7 | 127.82 | 6,332.4 | -298.7 | 225.1 | 43.3 | 181.73 | 1.239 Level 2 | | |
| 14,000.0 | 7,449.0 | 14,133.2 | 7,587.0 | 115.6 | 115.5 | 127.79 | 6,432.4 | -299.7 | 225.2 | 40.7 | 184.55 | 1.220 Level 2 | | |
| 14,100.0 | 7,449.0 | 14,233.2 | 7,587.0 | 117.3 | 117.2 | 127.76 | 6,532.4 | -300.8 | 225.4 | 38.0 | 187.38 | 1.203 Level 2 | | |
| 14,200.0 | 7,449.0 | 14,333.2 | 7,587.0 | 119.0 | 119.0 | 127.73 | 6,632.3 | -301.8 | 225.5 | 35.3 | 190.21 | 1.186 Level 2 | | |
| 14,300.0 | 7,449.0 | 14,433.2 | 7,587.0 | 120.8 | 120.7 | 127.71 | 6,732.3 | -302.9 | 225.6 | 32.6 | 193.04 | 1.169 Level 2 | | |
| 14,400.0 | 7,449.0 | 14,533.2 | 7,587.0 | 122.5 | 122.4 | 127.68 | 6,832.3 | -303.9 | 225.8 | 29.9 | 195.87 | 1.153 Level 2 | | |
| 14,500.0 | 7,449.0 | 14,633.2 | 7,587.0 | 124.3 | 124.2 | 127.65 | 6,932.3 | -305.0 | 225.9 | 27.2 | 198.71 | 1.137 Level 2 | | |
| 14,600.0 | 7,449.0 | 14,733.2 | 7,587.0 | 126.0 | 125.9 | 127.63 | 7,032.3 | -306.0 | 226.0 | 24.5 | 201.55 | 1.122 Level 2 | | |
| 14,700.0 | 7,449.0 | 14,833.2 | 7,587.0 | 127.7 | 127.7 | 127.60 | 7,132.3 | -307.1 | 226.2 | 21.8 | 204.39 | 1.107 Level 2 | | |
| 14,800.0 | 7,449.0 | 14,933.2 | 7,587.0 | 129.5 | 129.4 | 127.57 | 7,232.3 | -308.1 | 226.3 | 19.1 | 207.23 | 1.092 Level 2 | | |
| 14,900.0 | 7,449.0 | 15,033.2 | 7,587.0 | 131.2 | 131.2 | 127.54 | 7,332.3 | -309.1 | 226.5 | 16.4 | 210.07 | 1.078 Level 2 | | |
| 15,000.0 | 7,449.0 | 15,133.2 | 7,587.0 | 133.0 | 132.9 | 127.52 | 7,432.3 | -310.2 | 226.6 | 13.7 | 212.92 | 1.064 Level 2 | | |
| 15,100.0 | 7,449.0 | 15,233.2 | 7,587.0 | 134.7 | 134.6 | 127.49 | 7,532.3 | -311.2 | 226.7 | 11.0 | 215.77 | 1.051 Level 2 | | |
| 15,138.1 | 7,449.0 | 15,271.3 | 7,587.0 | 135.4 | 135.3 | 127.48 | 7,570.4 | -311.6 | 226.8 | 9.9 | 216.86 | 1.046 Level 2 | | |
| 15,176.1 | 7,449.0 | 15,307.1 | 7,587.0 | 136.0 | 135.9 | 127.47 | 7,606.2 | -312.0 | 226.9 | 8.9 | 217.91 | 1.041 Level 2, ES, SF | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total 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 | 90.02 | 0.0 | 20.1 | 20.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 90.02 | 0.0 | 20.1 | 20.1 | 19.8 | 0.30 | 66.306 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.02 | 0.0 | 20.1 | 20.1 | 19.5 | 0.65 | 30.848 | CC, ES | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -137.94 | 0.0 | 20.1 | 20.8 | 19.8 | 1.00 | 20.731 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | -142.34 | 0.0 | 20.1 | 22.8 | 21.4 | 1.35 | 16.844 | | |
| 500.0 | 499.9 | 499.9 | 499.9 | 0.9 | 0.8 | -148.12 | 0.0 | 20.1 | 26.4 | 24.7 | 1.70 | 15.476 | | |
| 600.0 | 599.7 | 599.7 | 599.7 | 1.1 | 1.0 | -153.93 | 0.0 | 20.1 | 31.7 | 29.7 | 2.06 | 15.436 | | |
| 700.0 | 699.4 | 699.8 | 699.8 | 1.3 | 1.2 | -157.81 | -0.9 | 19.9 | 38.2 | 35.8 | 2.41 | 15.861 | | |
| 800.0 | 799.1 | 800.0 | 800.0 | 1.5 | 1.4 | -158.83 | -3.4 | 19.3 | 43.9 | 41.1 | 2.76 | 15.879 | | |
| 900.0 | 898.8 | 900.4 | 900.2 | 1.7 | 1.6 | -157.95 | -7.7 | 18.3 | 48.5 | 45.4 | 3.12 | 15.535 | | |
| 1,000.0 | 998.5 | 1,000.5 | 1,000.2 | 1.9 | 1.7 | -155.93 | -13.3 | 17.0 | 52.4 | 48.9 | 3.49 | 15.002 | | |
| 1,100.0 | 1,098.2 | 1,100.4 | 1,099.9 | 2.1 | 1.9 | -154.07 | -19.1 | 15.6 | 56.3 | 52.4 | 3.87 | 14.550 | | |
| 1,200.0 | 1,197.9 | 1,200.3 | 1,199.6 | 2.4 | 2.1 | -152.46 | -24.9 | 14.3 | 60.2 | 56.0 | 4.25 | 14.175 | | |
| 1,300.0 | 1,297.6 | 1,300.2 | 1,299.4 | 2.6 | 2.3 | -151.04 | -30.6 | 12.9 | 64.2 | 59.6 | 4.63 | 13.861 | | |
| 1,400.0 | 1,397.3 | 1,400.1 | 1,399.1 | 2.8 | 2.5 | -149.79 | -36.4 | 11.6 | 68.2 | 63.2 | 5.02 | 13.594 | | |
| 1,500.0 | 1,497.0 | 1,500.0 | 1,498.8 | 3.0 | 2.7 | -148.68 | -42.2 | 10.2 | 72.2 | 66.8 | 5.41 | 13.364 | | |
| 1,600.0 | 1,596.7 | 1,599.9 | 1,598.6 | 3.2 | 2.9 | -147.68 | -47.9 | 8.8 | 76.3 | 70.5 | 5.80 | 13.165 | | |
| 1,700.0 | 1,696.4 | 1,699.9 | 1,698.3 | 3.4 | 3.1 | -146.79 | -53.7 | 7.5 | 80.4 | 74.2 | 6.19 | 12.990 | | |
| 1,800.0 | 1,796.1 | 1,799.8 | 1,798.0 | 3.7 | 3.3 | -145.98 | -59.5 | 6.1 | 84.5 | 77.9 | 6.58 | 12.836 | | |
| 1,900.0 | 1,895.8 | 1,899.7 | 1,897.8 | 3.9 | 3.5 | -145.25 | -65.2 | 4.7 | 88.6 | 81.6 | 6.98 | 12.700 | | |
| 2,000.0 | 1,995.5 | 1,999.6 | 1,997.5 | 4.1 | 3.7 | -144.59 | -71.0 | 3.4 | 92.7 | 85.3 | 7.37 | 12.578 | | |
| 2,100.0 | 2,095.2 | 2,099.5 | 2,097.2 | 4.3 | 3.9 | -143.98 | -76.8 | 2.0 | 96.8 | 89.1 | 7.77 | 12.469 | | |
| 2,200.0 | 2,194.9 | 2,199.4 | 2,197.0 | 4.5 | 4.1 | -143.42 | -82.5 | 0.7 | 101.0 | 92.8 | 8.16 | 12.370 | | |
| 2,300.0 | 2,294.6 | 2,299.3 | 2,296.7 | 4.8 | 4.3 | -142.90 | -88.3 | -0.7 | 105.2 | 96.6 | 8.56 | 12.280 | | |
| 2,400.0 | 2,394.3 | 2,399.2 | 2,396.4 | 5.0 | 4.5 | -142.42 | -94.1 | -2.1 | 109.3 | 100.4 | 8.96 | 12.199 | | |
| 2,500.0 | 2,494.0 | 2,499.1 | 2,496.2 | 5.2 | 4.7 | -141.98 | -99.9 | -3.4 | 113.5 | 104.1 | 9.36 | 12.124 | | |
| 2,600.0 | 2,593.7 | 2,599.0 | 2,595.9 | 5.4 | 4.9 | -141.57 | -105.6 | -4.8 | 117.7 | 107.9 | 9.76 | 12.056 | | |
| 2,700.0 | 2,693.4 | 2,698.9 | 2,695.6 | 5.6 | 5.1 | -141.19 | -111.4 | -6.1 | 121.8 | 111.7 | 10.16 | 11.993 | | |
| 2,800.0 | 2,793.1 | 2,798.9 | 2,795.4 | 5.9 | 5.3 | -140.83 | -117.2 | -7.5 | 126.0 | 115.5 | 10.56 | 11.935 | | |
| 2,900.0 | 2,892.8 | 2,898.8 | 2,895.1 | 6.1 | 5.5 | -140.50 | -122.9 | -8.9 | 130.2 | 119.3 | 10.96 | 11.881 | | |
| 3,000.0 | 2,992.5 | 2,998.7 | 2,994.8 | 6.3 | 5.7 | -140.19 | -128.7 | -10.2 | 134.4 | 123.1 | 11.36 | 11.831 | | |
| 3,100.0 | 3,092.2 | 3,098.6 | 3,094.6 | 6.5 | 5.9 | -139.89 | -134.5 | -11.6 | 138.6 | 126.9 | 11.76 | 11.784 | | |
| 3,200.0 | 3,191.9 | 3,198.5 | 3,194.3 | 6.7 | 6.1 | -139.62 | -140.2 | -13.0 | 142.8 | 130.7 | 12.16 | 11.741 | | |
| 3,300.0 | 3,291.6 | 3,298.4 | 3,294.0 | 7.0 | 6.3 | -139.35 | -146.0 | -14.3 | 147.0 | 134.5 | 12.57 | 11.701 | | |
| 3,400.0 | 3,391.3 | 3,398.3 | 3,393.8 | 7.2 | 6.5 | -139.11 | -151.8 | -15.7 | 151.2 | 138.3 | 12.97 | 11.663 | | |
| 3,500.0 | 3,491.0 | 3,498.2 | 3,493.5 | 7.4 | 6.7 | -138.87 | -157.5 | -17.0 | 155.4 | 142.1 | 13.37 | 11.627 | | |
| 3,600.0 | 3,590.7 | 3,598.1 | 3,593.2 | 7.6 | 6.9 | -138.65 | -163.3 | -18.4 | 159.7 | 145.9 | 13.77 | 11.593 | | |
| 3,700.0 | 3,690.4 | 3,698.0 | 3,693.0 | 7.9 | 7.1 | -138.44 | -169.1 | -19.8 | 163.9 | 149.7 | 14.17 | 11.562 | | |
| 3,800.0 | 3,790.1 | 3,797.9 | 3,792.7 | 8.1 | 7.3 | -138.25 | -174.9 | -21.1 | 168.1 | 153.5 | 14.58 | 11.532 | | |
| 3,900.0 | 3,889.8 | 3,897.9 | 3,892.4 | 8.3 | 7.5 | -138.06 | -180.6 | -22.5 | 172.3 | 157.3 | 14.98 | 11.504 | | |
| 4,000.0 | 3,989.5 | 3,997.8 | 3,992.2 | 8.5 | 7.7 | -137.88 | -186.4 | -23.8 | 176.5 | 161.2 | 15.38 | 11.477 | | |
| 4,100.0 | 4,089.2 | 4,097.7 | 4,091.9 | 8.7 | 7.9 | -137.71 | -192.2 | -25.2 | 180.8 | 165.0 | 15.78 | 11.452 | | |
| 4,200.0 | 4,188.9 | 4,197.6 | 4,191.6 | 9.0 | 8.1 | -137.54 | -197.9 | -26.6 | 185.0 | 168.8 | 16.19 | 11.428 | | |
| 4,300.0 | 4,288.6 | 4,297.5 | 4,291.4 | 9.2 | 8.3 | -137.38 | -203.7 | -27.9 | 189.2 | 172.6 | 16.59 | 11.405 | | |
| 4,400.0 | 4,388.3 | 4,397.4 | 4,391.1 | 9.4 | 8.5 | -137.24 | -209.5 | -29.3 | 193.4 | 176.4 | 16.99 | 11.383 | | |
| 4,500.0 | 4,488.0 | 4,497.3 | 4,490.8 | 9.6 | 8.7 | -137.09 | -215.2 | -30.7 | 197.7 | 180.3 | 17.40 | 11.362 | | |
| 4,600.0 | 4,587.7 | 4,597.2 | 4,590.6 | 9.8 | 9.0 | -136.95 | -221.0 | -32.0 | 201.9 | 184.1 | 17.80 | 11.343 | | |
| 4,700.0 | 4,687.4 | 4,697.1 | 4,690.3 | 10.1 | 9.2 | -136.82 | -226.8 | -33.4 | 206.1 | 187.9 | 18.20 | 11.324 | | |
| 4,800.0 | 4,787.1 | 4,797.0 | 4,790.0 | 10.3 | 9.4 | -136.70 | -232.5 | -34.7 | 210.4 | 191.8 | 18.61 | 11.306 | | |
| 4,900.0 | 4,886.8 | 4,896.9 | 4,889.8 | 10.5 | 9.6 | -136.58 | -238.3 | -36.1 | 214.6 | 195.6 | 19.01 | 11.288 | | |
| 5,000.0 | 4,986.5 | 4,996.9 | 4,989.5 | 10.7 | 9.8 | -136.46 | -244.1 | -37.5 | 218.8 | 199.4 | 19.41 | 11.272 | | |
| 5,100.0 | 5,086.2 | 5,096.8 | 5,089.2 | 10.9 | 10.0 | -136.35 | -249.8 | -38.8 | 223.1 | 203.2 | 19.82 | 11.256 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,200.0 | 5,185.9 | 5,196.7 | 5,189.0 | 11.2 | 10.2 | -136.24 | -255.6 | -40.2 | 227.3 | 207.1 | 20.22 | 11.241 | | |
| 5,300.0 | 5,285.6 | 5,296.6 | 5,288.7 | 11.4 | 10.4 | -136.13 | -261.4 | -41.5 | 231.5 | 210.9 | 20.62 | 11.226 | | |
| 5,400.0 | 5,385.3 | 5,396.5 | 5,388.4 | 11.6 | 10.6 | -136.03 | -267.2 | -42.9 | 235.8 | 214.7 | 21.03 | 11.212 | | |
| 5,500.0 | 5,485.0 | 5,496.4 | 5,488.2 | 11.8 | 10.8 | -135.94 | -272.9 | -44.3 | 240.0 | 218.6 | 21.43 | 11.199 | | |
| 5,600.0 | 5,584.7 | 5,596.3 | 5,587.9 | 12.0 | 11.0 | -135.84 | -278.7 | -45.6 | 244.3 | 222.4 | 21.84 | 11.186 | | |
| 5,700.0 | 5,684.4 | 5,696.2 | 5,687.6 | 12.3 | 11.2 | -135.75 | -284.5 | -47.0 | 248.5 | 226.3 | 22.24 | 11.173 | | |
| 5,800.0 | 5,784.1 | 5,796.1 | 5,787.4 | 12.5 | 11.4 | -135.67 | -290.2 | -48.4 | 252.7 | 230.1 | 22.64 | 11.161 | | |
| 5,900.0 | 5,883.8 | 5,896.0 | 5,887.1 | 12.7 | 11.6 | -135.58 | -296.0 | -49.7 | 257.0 | 233.9 | 23.05 | 11.150 | | |
| 6,000.0 | 5,983.5 | 5,996.0 | 5,986.8 | 12.9 | 11.8 | -135.50 | -301.8 | -51.1 | 261.2 | 237.8 | 23.45 | 11.139 | | |
| 6,100.0 | 6,083.2 | 6,095.9 | 6,086.6 | 13.1 | 12.0 | -135.42 | -307.5 | -52.4 | 265.5 | 241.6 | 23.86 | 11.128 | | |
| 6,200.0 | 6,182.9 | 6,195.8 | 6,186.3 | 13.4 | 12.2 | -135.34 | -313.3 | -53.8 | 269.7 | 245.4 | 24.26 | 11.117 | | |
| 6,300.0 | 6,282.6 | 6,295.7 | 6,286.0 | 13.6 | 12.4 | -135.27 | -319.1 | -55.2 | 273.9 | 249.3 | 24.66 | 11.107 | | |
| 6,400.0 | 6,382.3 | 6,395.6 | 6,385.8 | 13.8 | 12.6 | -135.20 | -324.8 | -56.5 | 278.2 | 253.1 | 25.07 | 11.098 | | |
| 6,500.0 | 6,482.0 | 6,495.5 | 6,485.5 | 14.0 | 12.8 | -135.13 | -330.6 | -57.9 | 282.4 | 257.0 | 25.47 | 11.088 | | |
| 6,600.0 | 6,581.7 | 6,595.4 | 6,585.2 | 14.3 | 13.0 | -135.06 | -336.4 | -59.2 | 286.7 | 260.8 | 25.88 | 11.079 | | |
| 6,700.0 | 6,681.4 | 6,695.3 | 6,685.0 | 14.5 | 13.2 | -135.00 | -342.2 | -60.6 | 290.9 | 264.6 | 26.28 | 11.070 | | |
| 6,800.0 | 6,781.1 | 6,795.4 | 6,784.9 | 14.7 | 13.4 | -134.97 | -347.7 | -62.0 | 295.2 | 268.5 | 26.68 | 11.064 | | |
| 6,900.0 | 6,880.8 | 6,894.8 | 6,884.0 | 14.9 | 13.5 | -134.92 | -353.1 | -63.2 | 299.4 | 272.6 | 26.81 | 11.169 | | |
| 7,000.0 | 6,980.1 | 6,991.7 | 6,978.3 | 15.0 | 13.4 | -134.88 | -358.5 | -64.3 | 304.5 | 277.8 | 26.65 | 11.424 | | |
| 7,100.0 | 7,076.2 | 7,086.6 | 7,065.7 | 15.0 | 13.3 | -134.84 | -363.9 | -65.2 | 310.2 | 283.8 | 26.36 | 11.768 | | |
| 7,200.0 | 7,166.3 | 7,179.7 | 7,144.5 | 14.9 | 13.2 | -134.80 | -369.3 | -65.9 | 316.3 | 290.3 | 26.03 | 12.150 | | |
| 7,300.0 | 7,247.6 | 7,271.2 | 7,213.3 | 14.8 | 13.1 | -134.77 | -374.7 | -66.4 | 322.5 | 296.7 | 25.77 | 12.512 | | |
| 7,400.0 | 7,317.6 | 7,361.6 | 7,270.8 | 14.8 | 13.0 | -134.73 | -380.1 | -66.7 | 328.4 | 302.7 | 25.66 | 12.797 | | |
| 7,500.0 | 7,374.3 | 7,450.0 | 7,315.9 | 14.8 | 13.1 | -134.70 | -385.5 | -66.8 | 333.7 | 308.0 | 25.77 | 12.951 | | |
| 7,600.0 | 7,415.8 | 7,539.6 | 7,349.1 | 15.0 | 13.3 | -134.67 | -390.9 | -66.6 | 338.3 | 312.1 | 26.17 | 12.926 | | |
| 7,700.0 | 7,441.0 | 7,627.8 | 7,368.7 | 15.4 | 13.7 | -134.64 | -396.3 | -66.3 | 341.8 | 314.9 | 26.89 | 12.713 | | |
| 7,800.0 | 7,449.0 | 7,716.2 | 7,375.0 | 15.9 | 14.2 | -134.61 | -401.7 | -65.8 | 344.2 | 316.3 | 27.92 | 12.329 | | |
| 7,900.0 | 7,449.0 | 7,816.2 | 7,375.0 | 16.7 | 15.0 | -134.58 | -407.1 | -65.1 | 346.1 | 316.6 | 29.50 | 11.732 | | |
| 8,000.0 | 7,449.0 | 7,916.1 | 7,375.0 | 17.5 | 16.0 | -134.55 | -412.5 | -64.4 | 348.0 | 316.6 | 31.37 | 11.092 | | |
| 8,100.0 | 7,449.0 | 8,016.1 | 7,375.0 | 18.5 | 17.0 | -134.52 | -417.9 | -63.7 | 349.9 | 316.4 | 33.49 | 10.446 | | |
| 8,200.0 | 7,449.0 | 8,116.1 | 7,375.0 | 19.6 | 18.2 | -134.50 | -423.3 | -63.0 | 351.8 | 315.9 | 35.82 | 9.821 | | |
| 8,300.0 | 7,449.0 | 8,216.1 | 7,375.0 | 20.8 | 19.5 | -134.47 | -428.7 | -62.3 | 353.6 | 315.3 | 38.31 | 9.230 | | |
| 8,400.0 | 7,449.0 | 8,316.1 | 7,375.0 | 22.1 | 20.8 | -134.45 | -434.1 | -61.6 | 355.5 | 314.6 | 40.94 | 8.683 | | |
| 8,500.0 | 7,449.0 | 8,416.1 | 7,375.0 | 23.4 | 22.2 | -134.43 | -439.5 | -60.9 | 357.4 | 313.7 | 43.69 | 8.181 | | |
| 8,600.0 | 7,449.0 | 8,516.0 | 7,375.0 | 24.8 | 23.6 | -134.41 | -444.9 | -60.2 | 359.3 | 312.7 | 46.53 | 7.722 | | |
| 8,700.0 | 7,449.0 | 8,616.0 | 7,375.0 | 26.2 | 25.1 | -134.40 | -450.3 | -59.5 | 361.1 | 311.7 | 49.44 | 7.304 | | |
| 8,800.0 | 7,449.0 | 8,716.0 | 7,375.0 | 27.7 | 26.6 | -134.38 | -455.7 | -58.8 | 363.0 | 310.6 | 52.42 | 6.925 | | |
| 8,900.0 | 7,449.0 | 8,816.0 | 7,375.0 | 29.2 | 28.2 | -134.37 | -461.1 | -58.1 | 364.9 | 309.4 | 55.46 | 6.580 | | |
| 9,000.0 | 7,449.0 | 8,916.0 | 7,375.0 | 30.7 | 29.7 | -134.36 | -466.5 | -57.4 | 366.8 | 308.2 | 58.54 | 6.265 | | |
| 9,100.0 | 7,449.0 | 9,015.9 | 7,375.0 | 32.3 | 31.3 | -134.35 | -471.9 | -56.7 | 368.7 | 307.0 | 61.66 | 5.979 | | |
| 9,200.0 | 7,449.0 | 9,115.9 | 7,375.0 | 33.8 | 32.9 | -134.34 | -477.3 | -56.0 | 370.5 | 305.7 | 64.82 | 5.717 | | |
| 9,300.0 | 7,449.0 | 9,212.6 | 7,375.0 | 35.4 | 34.5 | -134.33 | -482.7 | -55.3 | 372.4 | 304.5 | 67.95 | 5.481 | | |
| 9,400.0 | 7,449.0 | 9,306.8 | 7,375.0 | 37.0 | 36.0 | -134.32 | -488.1 | -53.5 | 375.6 | 304.5 | 71.08 | 5.284 | | |
| 9,500.0 | 7,449.0 | 9,405.5 | 7,375.0 | 38.6 | 37.7 | -134.31 | -493.5 | -50.1 | 380.2 | 305.8 | 74.31 | 5.116 | | |
| 9,600.0 | 7,449.0 | 9,505.4 | 7,375.0 | 40.3 | 39.3 | -134.30 | -498.9 | -46.6 | 384.8 | 307.2 | 77.58 | 4.960 | | |
| 9,700.0 | 7,449.0 | 9,605.3 | 7,375.0 | 41.9 | 41.0 | -134.29 | -504.3 | -43.1 | 389.4 | 308.5 | 80.87 | 4.815 | | |
| 9,800.0 | 7,449.0 | 9,705.2 | 7,375.0 | 43.5 | 42.6 | -134.28 | -509.7 | -39.6 | 394.0 | 309.8 | 84.17 | 4.681 | | |
| 9,900.0 | 7,449.0 | 9,805.1 | 7,375.0 | 45.2 | 44.3 | -134.27 | -515.1 | -36.1 | 398.6 | 311.2 | 87.49 | 4.556 | | |
| 10,000.0 | 7,449.0 | 9,904.9 | 7,375.0 | 46.8 | 46.0 | -134.26 | -520.5 | -32.6 | 403.3 | 312.5 | 90.83 | 4.440 | | |
| 10,100.0 | 7,449.0 | 10,004.8 | 7,375.0 | 48.5 | 47.6 | -134.25 | -525.9 | -29.2 | 407.9 | 313.7 | 94.17 | 4.332 | | |
| 10,200.0 | 7,449.0 | 10,104.7 | 7,375.0 | 50.2 | 49.3 | -134.24 | -531.3 | -25.7 | 412.5 | 315.0 | 97.53 | 4.230 | | |
| 10,300.0 | 7,449.0 | 10,214.9 | 7,375.0 | 51.9 | 51.2 | -134.23 | -536.7 | -23.0 | 416.1 | 315.1 | 101.06 | 4.118 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|------------------------------|----------------------|-------------------|-----------------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | Total Uncertainty Axis | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | | | | Between Ellipses (ft) | |
| 10,400.0 | 7,449.0 | 10,318.9 | 7,375.0 | 53.6 | 53.0 | 79.79 | 2,830.8 | -22.8 | 417.5 | 313.0 | 104.48 | 3.996 | | |
| 10,500.0 | 7,449.0 | 10,418.9 | 7,375.0 | 55.2 | 54.7 | 79.82 | 2,930.8 | -22.8 | 418.7 | 310.9 | 107.84 | 3.882 | | |
| 10,600.0 | 7,449.0 | 10,526.4 | 7,375.0 | 56.9 | 56.5 | 79.83 | 3,038.3 | -23.7 | 419.1 | 307.8 | 111.33 | 3.765 | | |
| 10,700.0 | 7,449.0 | 10,626.4 | 7,375.0 | 58.6 | 58.2 | 79.82 | 3,138.3 | -25.5 | 418.5 | 303.8 | 114.69 | 3.649 | | |
| 10,800.0 | 7,449.0 | 10,726.4 | 7,375.0 | 60.3 | 59.9 | 79.80 | 3,238.2 | -27.4 | 417.9 | 299.9 | 118.05 | 3.540 | | |
| 10,900.0 | 7,449.0 | 10,826.4 | 7,375.0 | 62.0 | 61.6 | 79.79 | 3,338.2 | -29.2 | 417.3 | 295.9 | 121.42 | 3.437 | | |
| 11,000.0 | 7,449.0 | 10,926.4 | 7,375.0 | 63.7 | 63.4 | 79.77 | 3,438.2 | -31.0 | 416.7 | 291.9 | 124.79 | 3.339 | | |
| 11,100.0 | 7,449.0 | 11,026.4 | 7,375.0 | 65.4 | 65.1 | 79.76 | 3,538.2 | -32.8 | 416.1 | 288.0 | 128.17 | 3.247 | | |
| 11,200.0 | 7,449.0 | 11,126.4 | 7,375.0 | 67.1 | 66.8 | 79.74 | 3,638.2 | -34.7 | 415.5 | 284.0 | 131.55 | 3.159 | | |
| 11,300.0 | 7,449.0 | 11,226.4 | 7,375.0 | 68.9 | 68.5 | 79.73 | 3,738.1 | -36.5 | 415.0 | 280.0 | 134.93 | 3.075 | | |
| 11,400.0 | 7,449.0 | 11,326.4 | 7,375.0 | 70.6 | 70.2 | 79.71 | 3,838.1 | -38.3 | 414.4 | 276.0 | 138.32 | 2.996 | | |
| 11,500.0 | 7,449.0 | 11,426.4 | 7,375.0 | 72.3 | 72.0 | 79.70 | 3,938.1 | -40.1 | 413.8 | 272.1 | 141.70 | 2.920 | | |
| 11,600.0 | 7,449.0 | 11,526.4 | 7,375.0 | 74.0 | 73.7 | 79.68 | 4,038.1 | -42.0 | 413.2 | 268.1 | 145.09 | 2.848 | | |
| 11,700.0 | 7,449.0 | 11,626.4 | 7,375.0 | 75.7 | 75.4 | 79.67 | 4,138.1 | -43.8 | 412.6 | 264.1 | 148.49 | 2.779 | | |
| 11,800.0 | 7,449.0 | 11,726.4 | 7,375.0 | 77.4 | 77.1 | 79.65 | 4,238.1 | -45.6 | 412.0 | 260.1 | 151.88 | 2.713 | | |
| 11,900.0 | 7,449.0 | 11,826.4 | 7,375.0 | 79.2 | 78.9 | 79.64 | 4,338.0 | -47.4 | 411.4 | 256.1 | 155.28 | 2.649 | | |
| 12,000.0 | 7,449.0 | 11,926.4 | 7,375.0 | 80.9 | 80.6 | 79.62 | 4,438.0 | -49.3 | 410.8 | 252.1 | 158.68 | 2.589 | | |
| 12,100.0 | 7,449.0 | 12,026.4 | 7,375.0 | 82.6 | 82.3 | 79.61 | 4,538.0 | -51.1 | 410.2 | 248.1 | 162.08 | 2.531 | | |
| 12,200.0 | 7,449.0 | 12,126.4 | 7,375.0 | 84.3 | 84.1 | 79.59 | 4,638.0 | -52.9 | 409.6 | 244.1 | 165.48 | 2.475 | | |
| 12,300.0 | 7,449.0 | 12,226.4 | 7,375.0 | 86.1 | 85.8 | 79.58 | 4,738.0 | -54.7 | 409.0 | 240.1 | 168.88 | 2.422 | | |
| 12,400.0 | 7,449.0 | 12,326.4 | 7,375.0 | 87.8 | 87.5 | 79.56 | 4,837.9 | -56.6 | 408.4 | 236.1 | 172.28 | 2.371 | | |
| 12,500.0 | 7,449.0 | 12,426.4 | 7,375.0 | 89.5 | 89.3 | 79.55 | 4,937.9 | -58.4 | 407.8 | 232.1 | 175.69 | 2.321 | | |
| 12,600.0 | 7,449.0 | 12,526.4 | 7,375.0 | 91.3 | 91.0 | 79.53 | 5,037.9 | -60.2 | 407.2 | 228.1 | 179.10 | 2.274 | | |
| 12,700.0 | 7,449.0 | 12,626.4 | 7,375.0 | 93.0 | 92.7 | 79.51 | 5,137.9 | -62.0 | 406.6 | 224.1 | 182.50 | 2.228 | | |
| 12,800.0 | 7,449.0 | 12,726.4 | 7,375.0 | 94.7 | 94.5 | 79.50 | 5,237.9 | -63.9 | 406.0 | 220.1 | 185.91 | 2.184 | | |
| 12,900.0 | 7,449.0 | 12,826.4 | 7,375.0 | 96.5 | 96.2 | 79.48 | 5,337.9 | -65.7 | 405.5 | 216.1 | 189.32 | 2.142 | | |
| 13,000.0 | 7,449.0 | 12,926.4 | 7,375.0 | 98.2 | 98.0 | 79.47 | 5,437.8 | -67.5 | 404.9 | 212.1 | 192.73 | 2.101 | | |
| 13,100.0 | 7,449.0 | 13,026.4 | 7,375.0 | 99.9 | 99.7 | 79.45 | 5,537.8 | -69.3 | 404.3 | 208.1 | 196.14 | 2.061 | | |
| 13,200.0 | 7,449.0 | 13,126.4 | 7,375.0 | 101.7 | 101.4 | 79.44 | 5,637.8 | -71.2 | 403.7 | 204.1 | 199.55 | 2.023 | | |
| 13,300.0 | 7,449.0 | 13,226.4 | 7,375.0 | 103.4 | 103.2 | 79.42 | 5,737.8 | -73.0 | 403.1 | 200.1 | 202.96 | 1.986 | | |
| 13,400.0 | 7,449.0 | 13,326.4 | 7,375.0 | 105.1 | 104.9 | 79.41 | 5,837.8 | -74.8 | 402.5 | 196.1 | 206.37 | 1.950 | | |
| 13,500.0 | 7,449.0 | 13,426.4 | 7,375.0 | 106.9 | 106.7 | 79.39 | 5,937.7 | -76.6 | 401.9 | 192.1 | 209.79 | 1.916 | | |
| 13,600.0 | 7,449.0 | 13,526.4 | 7,375.0 | 108.6 | 108.4 | 79.37 | 6,037.7 | -78.5 | 401.3 | 188.1 | 213.20 | 1.882 | | |
| 13,700.0 | 7,449.0 | 13,626.4 | 7,375.0 | 110.3 | 110.1 | 79.36 | 6,137.7 | -80.3 | 400.7 | 184.1 | 216.61 | 1.850 | | |
| 13,800.0 | 7,449.0 | 13,726.4 | 7,375.0 | 112.1 | 111.9 | 79.34 | 6,237.7 | -82.1 | 400.1 | 180.1 | 220.03 | 1.818 | | |
| 13,900.0 | 7,449.0 | 13,826.4 | 7,375.0 | 113.8 | 113.6 | 79.33 | 6,337.7 | -83.9 | 399.5 | 176.1 | 223.44 | 1.788 | | |
| 14,000.0 | 7,449.0 | 13,926.4 | 7,375.0 | 115.6 | 115.4 | 79.31 | 6,437.6 | -85.8 | 398.9 | 172.1 | 226.86 | 1.759 | | |
| 14,100.0 | 7,449.0 | 14,026.4 | 7,375.0 | 117.3 | 117.1 | 79.29 | 6,537.6 | -87.6 | 398.3 | 168.1 | 230.27 | 1.730 | | |
| 14,200.0 | 7,449.0 | 14,126.4 | 7,375.0 | 119.0 | 118.9 | 79.28 | 6,637.6 | -89.4 | 397.7 | 164.1 | 233.69 | 1.702 | | |
| 14,300.0 | 7,449.0 | 14,226.4 | 7,375.0 | 120.8 | 120.6 | 79.26 | 6,737.6 | -91.2 | 397.2 | 160.0 | 237.10 | 1.675 | | |
| 14,400.0 | 7,449.0 | 14,326.4 | 7,375.0 | 122.5 | 122.3 | 79.25 | 6,837.6 | -93.1 | 396.6 | 156.0 | 240.52 | 1.649 | | |
| 14,500.0 | 7,449.0 | 14,426.4 | 7,375.0 | 124.3 | 124.1 | 79.23 | 6,937.6 | -94.9 | 396.0 | 152.0 | 243.93 | 1.623 | | |
| 14,600.0 | 7,449.0 | 14,526.4 | 7,375.0 | 126.0 | 125.8 | 79.21 | 7,037.5 | -96.7 | 395.4 | 148.0 | 247.35 | 1.598 | | |
| 14,700.0 | 7,449.0 | 14,626.4 | 7,375.0 | 127.7 | 127.6 | 79.20 | 7,137.5 | -98.5 | 394.8 | 144.0 | 250.76 | 1.574 | | |
| 14,800.0 | 7,449.0 | 14,726.4 | 7,375.0 | 129.5 | 129.3 | 79.18 | 7,237.5 | -100.4 | 394.2 | 140.0 | 254.18 | 1.551 | | |
| 14,900.0 | 7,449.0 | 14,826.4 | 7,375.0 | 131.2 | 131.1 | 79.16 | 7,337.5 | -102.2 | 393.6 | 136.0 | 257.60 | 1.528 | | |
| 15,000.0 | 7,449.0 | 14,926.4 | 7,375.0 | 133.0 | 132.8 | 79.15 | 7,437.5 | -104.0 | 393.0 | 132.0 | 261.01 | 1.506 | | |
| 15,100.0 | 7,449.0 | 15,026.4 | 7,375.0 | 134.7 | 134.6 | 79.13 | 7,537.4 | -105.8 | 392.4 | 128.0 | 264.43 | 1.484 Level 3 | | |
| 15,163.8 | 7,449.0 | 15,090.2 | 7,375.0 | 135.8 | 135.7 | 79.12 | 7,601.3 | -107.0 | 392.0 | 125.4 | 266.61 | 1.470 Level 3 | | |
| 15,176.1 | 7,449.0 | 15,094.7 | 7,375.0 | 136.0 | 135.8 | 79.12 | 7,605.8 | -107.1 | 392.0 | 125.1 | 266.90 | 1.469 Level 3, SF | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|---------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 0.0 | 0.0 | 9.0 | 9.0 | 0.0 | 0.0 | 89.99 | 0.0 | 30.2 | 30.2 | | | | | |
| 100.0 | 100.0 | 109.0 | 109.0 | 0.2 | 0.1 | 89.99 | 0.0 | 30.2 | 30.2 | 29.9 | 0.30 | 101.203 | | |
| 200.0 | 200.0 | 209.0 | 209.0 | 0.3 | 0.3 | 89.99 | 0.0 | 30.2 | 30.2 | 29.6 | 0.65 | 46.646 CC, ES | | |
| 300.0 | 300.0 | 309.0 | 309.0 | 0.5 | 0.5 | -137.43 | 0.0 | 30.2 | 30.8 | 29.8 | 1.00 | 30.936 | | |
| 400.0 | 400.0 | 409.0 | 409.0 | 0.7 | 0.7 | -140.51 | 0.0 | 30.2 | 32.8 | 31.5 | 1.35 | 24.348 | | |
| 500.0 | 499.9 | 508.9 | 508.9 | 0.9 | 0.8 | -144.86 | 0.0 | 30.2 | 36.3 | 34.6 | 1.70 | 21.344 | | |
| 600.0 | 599.7 | 608.7 | 608.7 | 1.1 | 1.0 | -148.28 | -1.0 | 30.4 | 41.4 | 39.3 | 2.05 | 20.138 | | |
| 700.0 | 699.4 | 708.5 | 708.5 | 1.3 | 1.2 | -149.73 | -3.7 | 30.8 | 47.7 | 45.3 | 2.41 | 19.768 | | |
| 800.0 | 799.1 | 808.4 | 808.2 | 1.5 | 1.4 | -149.10 | -8.2 | 31.6 | 54.1 | 51.3 | 2.78 | 19.444 | | |
| 900.0 | 898.8 | 908.2 | 907.9 | 1.7 | 1.6 | -147.75 | -13.5 | 32.5 | 60.5 | 57.3 | 3.16 | 19.145 | | |
| 1,000.0 | 998.5 | 1,008.0 | 1,007.5 | 1.9 | 1.8 | -146.67 | -18.8 | 33.4 | 66.9 | 63.3 | 3.54 | 18.896 | | |
| 1,100.0 | 1,098.2 | 1,107.8 | 1,107.2 | 2.1 | 1.9 | -145.77 | -24.1 | 34.3 | 73.3 | 69.4 | 3.92 | 18.687 | | |
| 1,200.0 | 1,197.9 | 1,207.6 | 1,206.8 | 2.4 | 2.1 | -145.01 | -29.4 | 35.2 | 79.7 | 75.4 | 4.31 | 18.510 | | |
| 1,300.0 | 1,297.6 | 1,307.3 | 1,306.5 | 2.6 | 2.3 | -144.37 | -34.7 | 36.1 | 86.2 | 81.5 | 4.69 | 18.358 | | |
| 1,400.0 | 1,397.3 | 1,407.1 | 1,406.1 | 2.8 | 2.5 | -143.82 | -40.1 | 37.0 | 92.6 | 87.5 | 5.08 | 18.226 | | |
| 1,500.0 | 1,497.0 | 1,506.9 | 1,505.7 | 3.0 | 2.7 | -143.34 | -45.4 | 37.9 | 99.1 | 93.6 | 5.47 | 18.111 | | |
| 1,600.0 | 1,596.7 | 1,606.7 | 1,605.4 | 3.2 | 2.9 | -142.92 | -50.7 | 38.8 | 105.5 | 99.7 | 5.86 | 18.010 | | |
| 1,700.0 | 1,696.4 | 1,706.5 | 1,705.0 | 3.4 | 3.1 | -142.55 | -56.0 | 39.8 | 112.0 | 105.7 | 6.25 | 17.920 | | |
| 1,800.0 | 1,796.1 | 1,806.3 | 1,804.7 | 3.7 | 3.3 | -142.22 | -61.3 | 40.7 | 118.5 | 111.8 | 6.64 | 17.840 | | |
| 1,900.0 | 1,895.8 | 1,906.1 | 1,904.3 | 3.9 | 3.5 | -141.92 | -66.6 | 41.6 | 124.9 | 117.9 | 7.03 | 17.768 | | |
| 2,000.0 | 1,995.5 | 2,005.9 | 2,004.0 | 4.1 | 3.7 | -141.65 | -71.9 | 42.5 | 131.4 | 124.0 | 7.42 | 17.703 | | |
| 2,100.0 | 2,095.2 | 2,105.6 | 2,103.6 | 4.3 | 3.9 | -141.41 | -77.3 | 43.4 | 137.9 | 130.1 | 7.81 | 17.645 | | |
| 2,200.0 | 2,194.9 | 2,205.4 | 2,203.2 | 4.5 | 4.1 | -141.19 | -82.6 | 44.3 | 144.4 | 136.2 | 8.21 | 17.591 | | |
| 2,300.0 | 2,294.6 | 2,305.2 | 2,302.9 | 4.8 | 4.3 | -140.98 | -87.9 | 45.2 | 150.8 | 142.2 | 8.60 | 17.542 | | |
| 2,400.0 | 2,394.3 | 2,405.0 | 2,402.5 | 5.0 | 4.5 | -140.80 | -93.2 | 46.1 | 157.3 | 148.3 | 8.99 | 17.497 | | |
| 2,500.0 | 2,494.0 | 2,504.8 | 2,502.2 | 5.2 | 4.7 | -140.63 | -98.5 | 47.0 | 163.8 | 154.4 | 9.38 | 17.456 | | |
| 2,600.0 | 2,593.7 | 2,604.6 | 2,601.8 | 5.4 | 4.9 | -140.47 | -103.8 | 47.9 | 170.3 | 160.5 | 9.78 | 17.418 | | |
| 2,700.0 | 2,693.4 | 2,704.4 | 2,701.5 | 5.6 | 5.1 | -140.32 | -109.1 | 48.8 | 176.8 | 166.6 | 10.17 | 17.383 | | |
| 2,800.0 | 2,793.1 | 2,804.2 | 2,801.1 | 5.9 | 5.3 | -140.19 | -114.5 | 49.7 | 183.3 | 172.7 | 10.56 | 17.350 | | |
| 2,900.0 | 2,892.8 | 2,904.0 | 2,900.7 | 6.1 | 5.5 | -140.06 | -119.8 | 50.6 | 189.8 | 178.8 | 10.96 | 17.319 | | |
| 3,000.0 | 2,992.5 | 3,003.7 | 3,000.4 | 6.3 | 5.7 | -139.94 | -125.1 | 51.5 | 196.3 | 184.9 | 11.35 | 17.291 | | |
| 3,100.0 | 3,092.2 | 3,103.5 | 3,100.0 | 6.5 | 5.9 | -139.83 | -130.4 | 52.4 | 202.8 | 191.0 | 11.74 | 17.264 | | |
| 3,200.0 | 3,191.9 | 3,203.3 | 3,199.7 | 6.7 | 6.1 | -139.73 | -135.7 | 53.3 | 209.3 | 197.1 | 12.14 | 17.239 | | |
| 3,300.0 | 3,291.6 | 3,303.1 | 3,299.3 | 7.0 | 6.3 | -139.63 | -141.0 | 54.3 | 215.8 | 203.2 | 12.53 | 17.216 | | |
| 3,400.0 | 3,391.3 | 3,402.9 | 3,399.0 | 7.2 | 6.5 | -139.54 | -146.3 | 55.2 | 222.2 | 209.3 | 12.93 | 17.194 | | |
| 3,500.0 | 3,491.0 | 3,502.7 | 3,498.6 | 7.4 | 6.7 | -139.45 | -151.6 | 56.1 | 228.7 | 215.4 | 13.32 | 17.173 | | |
| 3,600.0 | 3,590.7 | 3,602.5 | 3,598.2 | 7.6 | 6.9 | -139.37 | -157.0 | 57.0 | 235.2 | 221.5 | 13.71 | 17.153 | | |
| 3,700.0 | 3,690.4 | 3,702.3 | 3,697.9 | 7.9 | 7.1 | -139.29 | -162.3 | 57.9 | 241.7 | 227.6 | 14.11 | 17.134 | | |
| 3,800.0 | 3,790.1 | 3,802.0 | 3,797.5 | 8.1 | 7.2 | -139.22 | -167.6 | 58.8 | 248.2 | 233.7 | 14.50 | 17.117 | | |
| 3,900.0 | 3,889.8 | 3,901.8 | 3,897.2 | 8.3 | 7.4 | -139.15 | -172.9 | 59.7 | 254.7 | 239.8 | 14.90 | 17.100 | | |
| 4,000.0 | 3,989.5 | 4,001.6 | 3,996.8 | 8.5 | 7.6 | -139.09 | -178.2 | 60.6 | 261.2 | 245.9 | 15.29 | 17.084 | | |
| 4,100.0 | 4,089.2 | 4,101.4 | 4,096.5 | 8.7 | 7.8 | -139.02 | -183.5 | 61.5 | 267.7 | 252.0 | 15.68 | 17.069 | | |
| 4,200.0 | 4,188.9 | 4,201.2 | 4,196.1 | 9.0 | 8.0 | -138.96 | -188.8 | 62.4 | 274.2 | 258.1 | 16.08 | 17.055 | | |
| 4,300.0 | 4,288.6 | 4,301.0 | 4,295.7 | 9.2 | 8.2 | -138.91 | -194.2 | 63.3 | 280.7 | 264.2 | 16.47 | 17.041 | | |
| 4,400.0 | 4,388.3 | 4,400.8 | 4,395.4 | 9.4 | 8.4 | -138.85 | -199.5 | 64.2 | 287.2 | 270.3 | 16.87 | 17.028 | | |
| 4,500.0 | 4,488.0 | 4,500.6 | 4,495.0 | 9.6 | 8.6 | -138.80 | -204.8 | 65.1 | 293.7 | 276.5 | 17.26 | 17.015 | | |
| 4,600.0 | 4,587.7 | 4,600.4 | 4,594.7 | 9.8 | 8.8 | -138.75 | -210.1 | 66.0 | 300.2 | 282.6 | 17.66 | 17.003 | | |
| 4,700.0 | 4,687.4 | 4,700.1 | 4,694.3 | 10.1 | 9.0 | -138.70 | -215.4 | 66.9 | 306.7 | 288.7 | 18.05 | 16.992 | | |
| 4,800.0 | 4,787.1 | 4,799.9 | 4,794.0 | 10.3 | 9.2 | -138.66 | -220.7 | 67.8 | 313.2 | 294.8 | 18.44 | 16.981 | | |
| 4,900.0 | 4,886.8 | 4,899.7 | 4,893.6 | 10.5 | 9.4 | -138.61 | -226.0 | 68.8 | 319.7 | 300.9 | 18.84 | 16.970 | | |
| 5,000.0 | 4,986.5 | 4,999.5 | 4,993.2 | 10.7 | 9.6 | -138.57 | -231.4 | 69.7 | 326.2 | 307.0 | 19.23 | 16.960 | | |
| 5,100.0 | 5,086.2 | 5,099.3 | 5,092.9 | 10.9 | 9.8 | -138.53 | -236.7 | 70.6 | 332.7 | 313.1 | 19.63 | 16.951 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|------------------------------|----------------------|---------|-----------------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | Total Uncertainty Axis | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | | | | Between Ellipses (ft) | |
| 5,200.0 | 5,185.9 | 5,199.1 | 5,192.5 | 11.2 | 10.0 | -138.49 | -242.0 | 71.5 | 339.2 | 319.2 | 20.02 | 16.941 | | |
| 5,300.0 | 5,285.6 | 5,298.9 | 5,292.2 | 11.4 | 10.2 | -138.45 | -247.3 | 72.4 | 345.7 | 325.3 | 20.42 | 16.932 | | |
| 5,400.0 | 5,385.3 | 5,398.7 | 5,391.8 | 11.6 | 10.4 | -138.42 | -252.6 | 73.3 | 352.2 | 331.4 | 20.81 | 16.924 | | |
| 5,500.0 | 5,485.0 | 5,498.4 | 5,491.4 | 11.8 | 10.6 | -138.38 | -257.9 | 74.2 | 358.7 | 337.5 | 21.21 | 16.915 | | |
| 5,600.0 | 5,584.7 | 5,598.2 | 5,591.1 | 12.0 | 10.8 | -138.35 | -263.2 | 75.1 | 365.2 | 343.6 | 21.60 | 16.907 | | |
| 5,700.0 | 5,684.4 | 5,698.0 | 5,690.7 | 12.3 | 11.0 | -138.31 | -268.5 | 76.0 | 371.7 | 349.7 | 22.00 | 16.900 | | |
| 5,800.0 | 5,784.1 | 5,797.8 | 5,790.4 | 12.5 | 11.2 | -138.28 | -273.9 | 76.9 | 378.2 | 355.8 | 22.39 | 16.892 | | |
| 5,900.0 | 5,883.8 | 5,897.6 | 5,890.0 | 12.7 | 11.4 | -138.25 | -279.2 | 77.8 | 384.7 | 361.9 | 22.78 | 16.885 | | |
| 6,000.0 | 5,983.5 | 5,997.4 | 5,989.7 | 12.9 | 11.6 | -138.22 | -284.5 | 78.7 | 391.2 | 368.0 | 23.18 | 16.878 | | |
| 6,100.0 | 6,083.2 | 6,097.2 | 6,089.3 | 13.1 | 11.8 | -138.20 | -289.8 | 79.6 | 397.7 | 374.1 | 23.57 | 16.871 | | |
| 6,200.0 | 6,182.9 | 6,197.0 | 6,188.9 | 13.4 | 12.0 | -138.17 | -295.1 | 80.5 | 404.2 | 380.3 | 23.97 | 16.865 | | |
| 6,300.0 | 6,282.6 | 6,296.8 | 6,288.6 | 13.6 | 12.2 | -138.14 | -300.4 | 81.4 | 410.7 | 386.4 | 24.36 | 16.858 | | |
| 6,400.0 | 6,382.3 | 6,396.5 | 6,388.2 | 13.8 | 12.4 | -138.12 | -305.7 | 82.3 | 417.2 | 392.5 | 24.76 | 16.852 | | |
| 6,500.0 | 6,482.0 | 6,496.3 | 6,487.9 | 14.0 | 12.6 | -138.09 | -311.1 | 83.3 | 423.7 | 398.6 | 25.15 | 16.846 | | |
| 6,600.0 | 6,581.7 | 6,596.1 | 6,587.5 | 14.3 | 12.8 | -138.07 | -316.4 | 84.2 | 430.2 | 404.7 | 25.55 | 16.841 | | |
| 6,700.0 | 6,681.4 | 6,695.9 | 6,687.2 | 14.5 | 13.0 | -138.04 | -321.7 | 85.1 | 436.7 | 410.8 | 25.94 | 16.835 | | |
| 6,800.0 | 6,781.1 | 6,795.7 | 6,786.8 | 14.7 | 13.2 | -138.02 | -327.0 | 86.0 | 443.2 | 416.9 | 26.34 | 16.830 | | |
| 6,900.0 | 6,880.8 | 6,895.5 | 6,886.4 | 14.9 | 13.4 | 172.25 | -332.3 | 86.9 | 449.7 | 423.0 | 26.71 | 16.836 | | |
| 7,000.0 | 6,980.1 | 6,994.1 | 6,984.9 | 15.0 | 13.6 | 107.65 | -337.3 | 87.8 | 456.2 | 429.2 | 27.00 | 16.893 | | |
| 7,100.0 | 7,076.2 | 7,093.7 | 7,084.2 | 15.0 | 13.6 | 101.24 | -331.1 | 88.7 | 463.3 | 436.3 | 27.08 | 17.113 | | |
| 7,200.0 | 7,166.3 | 7,197.2 | 7,184.6 | 14.9 | 13.6 | 100.12 | -306.6 | 89.6 | 471.2 | 444.3 | 26.92 | 17.506 | | |
| 7,300.0 | 7,247.6 | 7,304.9 | 7,282.6 | 14.8 | 13.5 | 100.34 | -262.4 | 90.5 | 479.3 | 452.7 | 26.60 | 18.018 | | |
| 7,400.0 | 7,317.6 | 7,416.9 | 7,373.9 | 14.8 | 13.3 | 100.98 | -197.8 | 91.3 | 487.3 | 461.0 | 26.27 | 18.550 | | |
| 7,500.0 | 7,374.3 | 7,533.3 | 7,453.6 | 14.8 | 13.3 | 101.71 | -113.3 | 92.0 | 494.6 | 468.5 | 26.10 | 18.951 | | |
| 7,600.0 | 7,415.8 | 7,653.6 | 7,516.3 | 15.0 | 13.4 | 102.34 | -10.9 | 92.6 | 500.8 | 474.5 | 26.30 | 19.045 | | |
| 7,700.0 | 7,441.0 | 7,777.1 | 7,557.1 | 15.4 | 13.8 | 102.78 | 105.4 | 93.0 | 505.4 | 478.4 | 27.04 | 18.694 | | |
| 7,800.0 | 7,449.0 | 7,902.6 | 7,572.0 | 15.9 | 14.5 | 102.97 | 229.8 | 93.1 | 508.0 | 479.7 | 28.35 | 17.918 | | |
| 7,900.0 | 7,449.0 | 8,003.7 | 7,572.0 | 16.7 | 15.3 | 102.94 | 330.9 | 93.1 | 509.2 | 479.3 | 29.91 | 17.025 | | |
| 8,000.0 | 7,449.0 | 8,103.7 | 7,572.0 | 17.5 | 16.2 | 102.91 | 430.9 | 93.1 | 510.4 | 478.6 | 31.75 | 16.075 | | |
| 8,100.0 | 7,449.0 | 8,203.7 | 7,572.0 | 18.5 | 17.3 | 102.88 | 530.9 | 93.1 | 511.6 | 477.8 | 33.84 | 15.118 | | |
| 8,200.0 | 7,449.0 | 8,303.7 | 7,572.0 | 19.6 | 18.4 | 102.85 | 630.9 | 93.1 | 512.8 | 476.6 | 36.13 | 14.191 | | |
| 8,300.0 | 7,449.0 | 8,403.7 | 7,572.0 | 20.8 | 19.7 | 102.82 | 730.9 | 93.1 | 514.0 | 475.4 | 38.60 | 13.317 | | |
| 8,400.0 | 7,449.0 | 8,503.7 | 7,572.0 | 22.1 | 21.0 | 102.79 | 830.9 | 93.1 | 515.2 | 474.0 | 41.20 | 12.505 | | |
| 8,500.0 | 7,449.0 | 8,603.7 | 7,572.0 | 23.4 | 22.4 | 102.76 | 930.9 | 93.1 | 516.4 | 472.4 | 43.91 | 11.760 | | |
| 8,600.0 | 7,449.0 | 8,703.7 | 7,572.0 | 24.8 | 23.8 | 102.73 | 1,030.9 | 93.1 | 517.5 | 470.8 | 46.72 | 11.078 | | |
| 8,700.0 | 7,449.0 | 8,803.7 | 7,572.0 | 26.2 | 25.3 | 102.70 | 1,130.9 | 93.1 | 518.7 | 469.1 | 49.60 | 10.458 | | |
| 8,800.0 | 7,449.0 | 8,903.7 | 7,572.0 | 27.7 | 26.8 | 102.67 | 1,230.9 | 93.1 | 519.9 | 467.4 | 52.56 | 9.893 | | |
| 8,900.0 | 7,449.0 | 9,003.7 | 7,572.0 | 29.2 | 28.4 | 102.64 | 1,330.9 | 93.1 | 521.1 | 465.6 | 55.56 | 9.379 | | |
| 9,000.0 | 7,449.0 | 9,103.7 | 7,572.0 | 30.7 | 29.9 | 102.61 | 1,430.9 | 93.1 | 522.3 | 463.7 | 58.62 | 8.910 | | |
| 9,100.0 | 7,449.0 | 9,203.6 | 7,572.0 | 32.3 | 31.5 | 102.58 | 1,530.9 | 93.1 | 523.5 | 461.8 | 61.71 | 8.483 | | |
| 9,200.0 | 7,449.0 | 9,303.6 | 7,572.0 | 33.8 | 33.1 | 102.55 | 1,630.9 | 93.1 | 524.7 | 459.9 | 64.84 | 8.092 | | |
| 9,300.0 | 7,449.0 | 9,403.6 | 7,572.0 | 35.4 | 34.7 | 102.52 | 1,730.8 | 93.1 | 525.9 | 457.9 | 68.00 | 7.734 | | |
| 9,400.0 | 7,449.0 | 9,503.6 | 7,572.0 | 37.0 | 36.4 | 102.49 | 1,830.8 | 93.1 | 527.1 | 455.9 | 71.19 | 7.404 | | |
| 9,500.0 | 7,449.0 | 9,603.6 | 7,572.0 | 38.6 | 38.0 | 102.46 | 1,930.8 | 93.1 | 528.3 | 453.9 | 74.39 | 7.101 | | |
| 9,600.0 | 7,449.0 | 9,703.6 | 7,572.0 | 40.3 | 39.6 | 102.43 | 2,030.8 | 93.1 | 529.5 | 451.9 | 77.62 | 6.821 | | |
| 9,700.0 | 7,449.0 | 9,803.6 | 7,572.0 | 41.9 | 41.3 | 102.41 | 2,130.8 | 93.1 | 530.7 | 449.8 | 80.87 | 6.562 | | |
| 9,800.0 | 7,449.0 | 9,903.6 | 7,572.0 | 43.5 | 43.0 | 102.38 | 2,230.8 | 93.1 | 531.9 | 447.7 | 84.13 | 6.322 | | |
| 9,900.0 | 7,449.0 | 10,003.6 | 7,572.0 | 45.2 | 44.6 | 102.35 | 2,330.8 | 93.1 | 533.0 | 445.6 | 87.40 | 6.099 | | |
| 10,000.0 | 7,449.0 | 10,103.6 | 7,572.0 | 46.8 | 46.3 | 102.32 | 2,430.8 | 93.1 | 534.2 | 443.6 | 90.69 | 5.891 | | |
| 10,100.0 | 7,449.0 | 10,203.6 | 7,572.0 | 48.5 | 48.0 | 102.29 | 2,530.8 | 93.1 | 535.4 | 441.5 | 93.99 | 5.697 | | |
| 10,200.0 | 7,449.0 | 10,303.6 | 7,572.0 | 50.2 | 49.7 | 102.27 | 2,630.8 | 93.1 | 536.6 | 439.3 | 97.29 | 5.515 | | |
| 10,300.0 | 7,449.0 | 10,403.6 | 7,572.0 | 51.9 | 51.4 | 102.24 | 2,730.8 | 93.1 | 537.8 | 437.2 | 100.61 | 5.345 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - 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 Depth (ft) | Vertical Depth Depth (ft) | Measured Depth Depth (ft) | Vertical Depth 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 | 7,449.0 | 10,503.5 | 7,572.0 | 53.6 | 53.1 | 102.21 | 2,830.8 | 93.1 | 539.0 | 435.1 | 103.94 | 5.186 | | |
| 10,500.0 | 7,449.0 | 10,603.5 | 7,572.0 | 55.2 | 54.8 | 102.18 | 2,930.8 | 93.1 | 540.2 | 432.9 | 107.27 | 5.036 | | |
| 10,600.0 | 7,449.0 | 10,703.5 | 7,572.0 | 56.9 | 56.5 | 102.16 | 3,030.7 | 93.1 | 541.4 | 430.8 | 110.61 | 4.895 | | |
| 10,700.0 | 7,449.0 | 10,803.5 | 7,572.0 | 58.6 | 58.2 | 102.13 | 3,130.7 | 93.1 | 542.6 | 428.6 | 113.96 | 4.761 | | |
| 10,800.0 | 7,449.0 | 10,903.5 | 7,572.0 | 60.3 | 59.9 | 102.10 | 3,230.7 | 93.1 | 543.8 | 426.5 | 117.32 | 4.635 | | |
| 10,900.0 | 7,449.0 | 11,003.5 | 7,572.0 | 62.0 | 61.6 | 102.08 | 3,330.7 | 93.1 | 545.0 | 424.3 | 120.68 | 4.516 | | |
| 11,000.0 | 7,449.0 | 11,103.5 | 7,572.0 | 63.7 | 63.3 | 102.05 | 3,430.7 | 93.1 | 546.2 | 422.1 | 124.04 | 4.403 | | |
| 11,100.0 | 7,449.0 | 11,203.5 | 7,572.0 | 65.4 | 65.0 | 102.02 | 3,530.7 | 93.1 | 547.4 | 420.0 | 127.41 | 4.296 | | |
| 11,200.0 | 7,449.0 | 11,303.5 | 7,572.0 | 67.1 | 66.7 | 102.00 | 3,630.7 | 93.1 | 548.6 | 417.8 | 130.78 | 4.195 | | |
| 11,300.0 | 7,449.0 | 11,403.5 | 7,572.0 | 68.9 | 68.5 | 101.97 | 3,730.7 | 93.1 | 549.8 | 415.6 | 134.16 | 4.098 | | |
| 11,400.0 | 7,449.0 | 11,503.5 | 7,572.0 | 70.6 | 70.2 | 101.94 | 3,830.7 | 93.1 | 551.0 | 413.4 | 137.54 | 4.006 | | |
| 11,500.0 | 7,449.0 | 11,603.5 | 7,572.0 | 72.3 | 71.9 | 101.92 | 3,930.7 | 93.1 | 552.2 | 411.2 | 140.93 | 3.918 | | |
| 11,600.0 | 7,449.0 | 11,703.5 | 7,572.0 | 74.0 | 73.6 | 101.89 | 4,030.7 | 93.1 | 553.4 | 409.0 | 144.32 | 3.834 | | |
| 11,700.0 | 7,449.0 | 11,803.5 | 7,572.0 | 75.7 | 75.4 | 101.86 | 4,130.7 | 93.1 | 554.5 | 406.8 | 147.71 | 3.754 | | |
| 11,800.0 | 7,449.0 | 11,903.4 | 7,572.0 | 77.4 | 77.1 | 101.84 | 4,230.7 | 93.1 | 555.7 | 404.6 | 151.10 | 3.678 | | |
| 11,900.0 | 7,449.0 | 12,003.4 | 7,572.0 | 79.2 | 78.8 | 101.81 | 4,330.7 | 93.1 | 556.9 | 402.4 | 154.50 | 3.605 | | |
| 12,000.0 | 7,449.0 | 12,103.4 | 7,572.0 | 80.9 | 80.5 | 101.79 | 4,430.6 | 93.1 | 558.1 | 400.2 | 157.90 | 3.535 | | |
| 12,100.0 | 7,449.0 | 12,203.4 | 7,572.0 | 82.6 | 82.3 | 101.76 | 4,530.6 | 93.1 | 559.3 | 398.0 | 161.30 | 3.468 | | |
| 12,200.0 | 7,449.0 | 12,303.4 | 7,572.0 | 84.3 | 84.0 | 101.74 | 4,630.6 | 93.1 | 560.5 | 395.8 | 164.71 | 3.403 | | |
| 12,300.0 | 7,449.0 | 12,403.4 | 7,572.0 | 86.1 | 85.7 | 101.71 | 4,730.6 | 93.1 | 561.7 | 393.6 | 168.12 | 3.341 | | |
| 12,400.0 | 7,449.0 | 12,503.4 | 7,572.0 | 87.8 | 87.5 | 101.68 | 4,830.6 | 93.1 | 562.9 | 391.4 | 171.53 | 3.282 | | |
| 12,500.0 | 7,449.0 | 12,603.4 | 7,572.0 | 89.5 | 89.2 | 101.66 | 4,930.6 | 93.1 | 564.1 | 389.2 | 174.94 | 3.225 | | |
| 12,600.0 | 7,449.0 | 12,703.4 | 7,572.0 | 91.3 | 90.9 | 101.63 | 5,030.6 | 93.1 | 565.3 | 387.0 | 178.35 | 3.170 | | |
| 12,700.0 | 7,449.0 | 12,803.4 | 7,572.0 | 93.0 | 92.7 | 101.61 | 5,130.6 | 93.1 | 566.5 | 384.7 | 181.77 | 3.117 | | |
| 12,800.0 | 7,449.0 | 12,903.4 | 7,572.0 | 94.7 | 94.4 | 101.59 | 5,230.6 | 93.1 | 567.7 | 382.5 | 185.19 | 3.066 | | |
| 12,900.0 | 7,449.0 | 13,003.4 | 7,572.0 | 96.5 | 96.1 | 101.56 | 5,330.6 | 93.1 | 568.9 | 380.3 | 188.61 | 3.016 | | |
| 13,000.0 | 7,449.0 | 13,103.4 | 7,572.0 | 98.2 | 97.9 | 101.54 | 5,430.6 | 93.1 | 570.1 | 378.1 | 192.03 | 2.969 | | |
| 13,100.0 | 7,449.0 | 13,203.3 | 7,572.0 | 99.9 | 99.6 | 101.51 | 5,530.6 | 93.1 | 571.3 | 375.8 | 195.45 | 2.923 | | |
| 13,200.0 | 7,449.0 | 13,303.3 | 7,572.0 | 101.7 | 101.4 | 101.49 | 5,630.6 | 93.1 | 572.5 | 373.6 | 198.88 | 2.879 | | |
| 13,300.0 | 7,449.0 | 13,403.3 | 7,572.0 | 103.4 | 103.1 | 101.46 | 5,730.5 | 93.1 | 573.7 | 371.4 | 202.30 | 2.836 | | |
| 13,400.0 | 7,449.0 | 13,503.3 | 7,572.0 | 105.1 | 104.8 | 101.44 | 5,830.5 | 93.1 | 574.9 | 369.2 | 205.73 | 2.794 | | |
| 13,500.0 | 7,449.0 | 13,603.3 | 7,572.0 | 106.9 | 106.6 | 101.41 | 5,930.5 | 93.1 | 576.1 | 366.9 | 209.16 | 2.754 | | |
| 13,600.0 | 7,449.0 | 13,703.3 | 7,572.0 | 108.6 | 108.3 | 101.39 | 6,030.5 | 93.1 | 577.3 | 364.7 | 212.59 | 2.715 | | |
| 13,700.0 | 7,449.0 | 13,803.3 | 7,572.0 | 110.3 | 110.1 | 101.37 | 6,130.5 | 93.1 | 578.5 | 362.5 | 216.02 | 2.678 | | |
| 13,800.0 | 7,449.0 | 13,903.3 | 7,572.0 | 112.1 | 111.8 | 101.34 | 6,230.5 | 93.1 | 579.7 | 360.2 | 219.45 | 2.641 | | |
| 13,900.0 | 7,449.0 | 14,003.3 | 7,572.0 | 113.8 | 113.5 | 101.32 | 6,330.5 | 93.1 | 580.9 | 358.0 | 222.89 | 2.606 | | |
| 14,000.0 | 7,449.0 | 14,103.3 | 7,572.0 | 115.6 | 115.3 | 101.30 | 6,430.5 | 93.1 | 582.1 | 355.8 | 226.32 | 2.572 | | |
| 14,100.0 | 7,449.0 | 14,203.3 | 7,572.0 | 117.3 | 117.0 | 101.27 | 6,530.5 | 93.1 | 583.3 | 353.5 | 229.76 | 2.539 | | |
| 14,200.0 | 7,449.0 | 14,303.3 | 7,572.0 | 119.0 | 118.8 | 101.25 | 6,630.5 | 93.1 | 584.5 | 351.3 | 233.20 | 2.506 | | |
| 14,300.0 | 7,449.0 | 14,403.3 | 7,572.0 | 120.8 | 120.5 | 101.23 | 6,730.5 | 93.1 | 585.7 | 349.0 | 236.64 | 2.475 | | |
| 14,400.0 | 7,449.0 | 14,503.3 | 7,572.0 | 122.5 | 122.3 | 101.20 | 6,830.5 | 93.1 | 586.9 | 346.8 | 240.08 | 2.445 | | |
| 14,500.0 | 7,449.0 | 14,603.2 | 7,572.0 | 124.3 | 124.0 | 101.18 | 6,930.5 | 93.1 | 588.1 | 344.5 | 243.52 | 2.415 | | |
| 14,600.0 | 7,449.0 | 14,703.2 | 7,572.0 | 126.0 | 125.7 | 101.16 | 7,030.4 | 93.1 | 589.3 | 342.3 | 246.96 | 2.386 | | |
| 14,700.0 | 7,449.0 | 14,803.2 | 7,572.0 | 127.7 | 127.5 | 101.13 | 7,130.4 | 93.1 | 590.5 | 340.1 | 250.40 | 2.358 | | |
| 14,800.0 | 7,449.0 | 14,903.2 | 7,572.0 | 129.5 | 129.2 | 101.11 | 7,230.4 | 93.1 | 591.7 | 337.8 | 253.84 | 2.331 | | |
| 14,900.0 | 7,449.0 | 15,003.2 | 7,572.0 | 131.2 | 131.0 | 101.09 | 7,330.4 | 93.1 | 592.9 | 335.6 | 257.29 | 2.304 | | |
| 15,000.0 | 7,449.0 | 15,103.2 | 7,572.0 | 133.0 | 132.7 | 101.06 | 7,430.4 | 93.1 | 594.1 | 333.3 | 260.73 | 2.278 | | |
| 15,100.0 | 7,449.0 | 15,203.2 | 7,572.0 | 134.7 | 134.5 | 101.04 | 7,530.4 | 93.1 | 595.3 | 331.1 | 264.18 | 2.253 | | |
| 15,176.1 | 7,449.0 | 15,278.2 | 7,572.0 | 136.0 | 135.8 | 101.03 | 7,605.5 | 93.1 | 596.2 | 329.4 | 266.78 | 2.235 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - 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 | 9.0 | 9.0 | 0.0 | 0.0 | 90.52 | -0.4 | 40.0 | 40.0 | | | | | |
| 100.0 | 100.0 | 109.0 | 109.0 | 0.2 | 0.1 | 90.52 | -0.4 | 40.0 | 40.0 | 39.7 | 0.30 | 134.006 | | |
| 200.0 | 200.0 | 209.0 | 209.0 | 0.3 | 0.3 | 90.52 | -0.4 | 40.0 | 40.0 | 39.3 | 0.65 | 61.766 CC, ES | | |
| 300.0 | 300.0 | 309.0 | 309.0 | 0.5 | 0.5 | -136.64 | -0.4 | 40.0 | 40.6 | 39.6 | 1.00 | 40.753 | | |
| 400.0 | 400.0 | 408.5 | 408.5 | 0.7 | 0.7 | -137.88 | -1.2 | 40.6 | 43.1 | 41.8 | 1.35 | 31.982 | | |
| 500.0 | 499.9 | 508.0 | 507.9 | 0.9 | 0.8 | -138.56 | -3.5 | 42.1 | 47.8 | 46.1 | 1.71 | 28.061 | | |
| 600.0 | 599.7 | 607.3 | 607.1 | 1.1 | 1.0 | -138.75 | -7.2 | 44.6 | 54.8 | 52.7 | 2.07 | 26.452 | | |
| 700.0 | 699.4 | 706.4 | 706.1 | 1.3 | 1.2 | -138.47 | -12.3 | 48.1 | 63.8 | 61.3 | 2.45 | 26.029 | | |
| 800.0 | 799.1 | 805.9 | 805.4 | 1.5 | 1.4 | -137.91 | -17.9 | 52.0 | 73.2 | 70.4 | 2.83 | 25.832 | | |
| 900.0 | 898.8 | 905.5 | 904.7 | 1.7 | 1.6 | -137.48 | -23.6 | 55.8 | 82.7 | 79.5 | 3.22 | 25.658 | | |
| 1,000.0 | 998.5 | 1,005.0 | 1,004.0 | 1.9 | 1.8 | -137.14 | -29.3 | 59.7 | 92.1 | 88.5 | 3.61 | 25.507 | | |
| 1,100.0 | 1,098.2 | 1,104.6 | 1,103.3 | 2.1 | 2.0 | -136.86 | -34.9 | 63.6 | 101.6 | 97.6 | 4.00 | 25.376 | | |
| 1,200.0 | 1,197.9 | 1,204.1 | 1,202.6 | 2.4 | 2.3 | -136.63 | -40.6 | 67.4 | 111.1 | 106.7 | 4.40 | 25.262 | | |
| 1,300.0 | 1,297.6 | 1,303.7 | 1,301.9 | 2.6 | 2.5 | -136.43 | -46.3 | 71.3 | 120.5 | 115.7 | 4.79 | 25.163 | | |
| 1,400.0 | 1,397.3 | 1,403.2 | 1,401.3 | 2.8 | 2.7 | -136.27 | -51.9 | 75.2 | 130.0 | 124.8 | 5.18 | 25.075 | | |
| 1,500.0 | 1,497.0 | 1,502.8 | 1,500.6 | 3.0 | 2.9 | -136.12 | -57.6 | 79.0 | 139.5 | 133.9 | 5.58 | 24.998 | | |
| 1,600.0 | 1,596.7 | 1,602.3 | 1,599.9 | 3.2 | 3.1 | -136.00 | -63.3 | 82.9 | 148.9 | 143.0 | 5.97 | 24.930 | | |
| 1,700.0 | 1,696.4 | 1,701.9 | 1,699.2 | 3.4 | 3.3 | -135.89 | -68.9 | 86.7 | 158.4 | 152.0 | 6.37 | 24.869 | | |
| 1,800.0 | 1,796.1 | 1,801.5 | 1,798.5 | 3.7 | 3.5 | -135.79 | -74.6 | 90.6 | 167.9 | 161.1 | 6.77 | 24.814 | | |
| 1,900.0 | 1,895.8 | 1,901.0 | 1,897.8 | 3.9 | 3.7 | -135.70 | -80.3 | 94.5 | 177.4 | 170.2 | 7.16 | 24.764 | | |
| 2,000.0 | 1,995.5 | 2,000.6 | 1,997.1 | 4.1 | 3.9 | -135.62 | -85.9 | 98.3 | 186.8 | 179.3 | 7.56 | 24.719 | | |
| 2,100.0 | 2,095.2 | 2,100.1 | 2,096.4 | 4.3 | 4.1 | -135.55 | -91.6 | 102.2 | 196.3 | 188.3 | 7.95 | 24.678 | | |
| 2,200.0 | 2,194.9 | 2,199.7 | 2,195.8 | 4.5 | 4.3 | -135.49 | -97.3 | 106.1 | 205.8 | 197.4 | 8.35 | 24.640 | | |
| 2,300.0 | 2,294.6 | 2,299.2 | 2,295.1 | 4.8 | 4.6 | -135.43 | -102.9 | 109.9 | 215.2 | 206.5 | 8.75 | 24.606 | | |
| 2,400.0 | 2,394.3 | 2,398.8 | 2,394.4 | 5.0 | 4.8 | -135.38 | -108.6 | 113.8 | 224.7 | 215.6 | 9.14 | 24.574 | | |
| 2,500.0 | 2,494.0 | 2,498.3 | 2,493.7 | 5.2 | 5.0 | -135.33 | -114.3 | 117.7 | 234.2 | 224.7 | 9.54 | 24.545 | | |
| 2,600.0 | 2,593.7 | 2,597.9 | 2,593.0 | 5.4 | 5.2 | -135.28 | -120.0 | 121.5 | 243.7 | 233.7 | 9.94 | 24.518 | | |
| 2,700.0 | 2,693.4 | 2,697.4 | 2,692.3 | 5.6 | 5.4 | -135.24 | -125.6 | 125.4 | 253.1 | 242.8 | 10.34 | 24.492 | | |
| 2,800.0 | 2,793.1 | 2,797.0 | 2,791.6 | 5.9 | 5.6 | -135.20 | -131.3 | 129.3 | 262.6 | 251.9 | 10.73 | 24.469 | | |
| 2,900.0 | 2,892.8 | 2,896.5 | 2,891.0 | 6.1 | 5.8 | -135.16 | -137.0 | 133.1 | 272.1 | 261.0 | 11.13 | 24.447 | | |
| 3,000.0 | 2,992.5 | 2,996.1 | 2,990.3 | 6.3 | 6.0 | -135.13 | -142.6 | 137.0 | 281.6 | 270.0 | 11.53 | 24.426 | | |
| 3,100.0 | 3,092.2 | 3,095.6 | 3,089.6 | 6.5 | 6.2 | -135.10 | -148.3 | 140.9 | 291.0 | 279.1 | 11.92 | 24.407 | | |
| 3,200.0 | 3,191.9 | 3,195.2 | 3,188.9 | 6.7 | 6.4 | -135.07 | -154.0 | 144.7 | 300.5 | 288.2 | 12.32 | 24.389 | | |
| 3,300.0 | 3,291.6 | 3,294.7 | 3,288.2 | 7.0 | 6.7 | -135.04 | -159.6 | 148.6 | 310.0 | 297.3 | 12.72 | 24.372 | | |
| 3,400.0 | 3,391.3 | 3,394.3 | 3,387.5 | 7.2 | 6.9 | -135.01 | -165.3 | 152.4 | 319.5 | 306.3 | 13.12 | 24.356 | | |
| 3,500.0 | 3,491.0 | 3,493.8 | 3,486.8 | 7.4 | 7.1 | -134.99 | -171.0 | 156.3 | 328.9 | 315.4 | 13.51 | 24.341 | | |
| 3,600.0 | 3,590.7 | 3,593.4 | 3,586.1 | 7.6 | 7.3 | -134.96 | -176.6 | 160.2 | 338.4 | 324.5 | 13.91 | 24.326 | | |
| 3,700.0 | 3,690.4 | 3,692.9 | 3,685.5 | 7.9 | 7.5 | -134.94 | -182.3 | 164.0 | 347.9 | 333.6 | 14.31 | 24.313 | | |
| 3,800.0 | 3,790.1 | 3,792.5 | 3,784.8 | 8.1 | 7.7 | -134.92 | -188.0 | 167.9 | 357.4 | 342.7 | 14.71 | 24.300 | | |
| 3,900.0 | 3,889.8 | 3,892.0 | 3,884.1 | 8.3 | 7.9 | -134.90 | -193.6 | 171.8 | 366.8 | 351.7 | 15.10 | 24.288 | | |
| 4,000.0 | 3,989.5 | 3,991.6 | 3,983.4 | 8.5 | 8.1 | -134.88 | -199.3 | 175.6 | 376.3 | 360.8 | 15.50 | 24.276 | | |
| 4,100.0 | 4,089.2 | 4,091.1 | 4,082.7 | 8.7 | 8.3 | -134.87 | -205.0 | 179.5 | 385.8 | 369.9 | 15.90 | 24.265 | | |
| 4,200.0 | 4,188.9 | 4,190.7 | 4,182.0 | 9.0 | 8.6 | -134.85 | -210.6 | 183.4 | 395.3 | 379.0 | 16.30 | 24.254 | | |
| 4,300.0 | 4,288.6 | 4,290.2 | 4,281.3 | 9.2 | 8.8 | -134.83 | -216.3 | 187.2 | 404.7 | 388.0 | 16.69 | 24.244 | | |
| 4,400.0 | 4,388.3 | 4,389.8 | 4,380.7 | 9.4 | 9.0 | -134.82 | -222.0 | 191.1 | 414.2 | 397.1 | 17.09 | 24.235 | | |
| 4,500.0 | 4,488.0 | 4,489.3 | 4,480.0 | 9.6 | 9.2 | -134.80 | -227.6 | 195.0 | 423.7 | 406.2 | 17.49 | 24.225 | | |
| 4,600.0 | 4,587.7 | 4,588.9 | 4,579.3 | 9.8 | 9.4 | -134.79 | -233.3 | 198.8 | 433.2 | 415.3 | 17.89 | 24.217 | | |
| 4,700.0 | 4,687.4 | 4,688.4 | 4,678.6 | 10.1 | 9.6 | -134.77 | -239.0 | 202.7 | 442.6 | 424.4 | 18.28 | 24.208 | | |
| 4,800.0 | 4,787.1 | 4,788.0 | 4,777.9 | 10.3 | 9.8 | -134.76 | -244.7 | 206.5 | 452.1 | 433.4 | 18.68 | 24.200 | | |
| 4,900.0 | 4,886.8 | 4,887.5 | 4,877.2 | 10.5 | 10.0 | -134.75 | -250.3 | 210.4 | 461.6 | 442.5 | 19.08 | 24.192 | | |
| 5,000.0 | 4,986.5 | 4,987.1 | 4,976.5 | 10.7 | 10.2 | -134.74 | -256.0 | 214.3 | 471.1 | 451.6 | 19.48 | 24.185 | | |
| 5,100.0 | 5,086.2 | 5,086.6 | 5,075.8 | 10.9 | 10.5 | -134.72 | -261.7 | 218.1 | 480.5 | 460.7 | 19.88 | 24.177 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|------------------------------|----------------------|---------|-----------------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | Total Uncertainty Axis | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | | | | Between Ellipses (ft) | |
| 5,200.0 | 5,185.9 | 5,186.2 | 5,175.2 | 11.2 | 10.7 | -134.71 | -267.3 | 222.0 | 490.0 | 469.7 | 20.27 | 24.171 | | |
| 5,300.0 | 5,285.6 | 5,285.7 | 5,274.5 | 11.4 | 10.9 | -134.70 | -273.0 | 225.9 | 499.5 | 478.8 | 20.67 | 24.164 | | |
| 5,400.0 | 5,385.3 | 5,385.3 | 5,373.8 | 11.6 | 11.1 | -134.69 | -278.7 | 229.7 | 509.0 | 487.9 | 21.07 | 24.157 | | |
| 5,500.0 | 5,485.0 | 5,484.8 | 5,473.1 | 11.8 | 11.3 | -134.68 | -284.3 | 233.6 | 518.4 | 497.0 | 21.47 | 24.151 | | |
| 5,600.0 | 5,584.7 | 5,584.4 | 5,572.4 | 12.0 | 11.5 | -134.67 | -290.0 | 237.5 | 527.9 | 506.0 | 21.86 | 24.145 | | |
| 5,700.0 | 5,684.4 | 5,683.9 | 5,671.7 | 12.3 | 11.7 | -134.66 | -295.7 | 241.3 | 537.4 | 515.1 | 22.26 | 24.140 | | |
| 5,800.0 | 5,784.1 | 5,783.5 | 5,771.0 | 12.5 | 11.9 | -134.65 | -301.3 | 245.2 | 546.9 | 524.2 | 22.66 | 24.134 | | |
| 5,900.0 | 5,883.8 | 5,883.0 | 5,870.4 | 12.7 | 12.1 | -134.65 | -307.0 | 249.1 | 556.3 | 533.3 | 23.06 | 24.129 | | |
| 6,000.0 | 5,983.5 | 5,982.6 | 5,969.7 | 12.9 | 12.3 | -134.64 | -312.7 | 252.9 | 565.8 | 542.4 | 23.45 | 24.123 | | |
| 6,100.0 | 6,083.2 | 6,082.1 | 6,069.0 | 13.1 | 12.6 | -134.63 | -318.3 | 256.8 | 575.3 | 551.4 | 23.85 | 24.118 | | |
| 6,200.0 | 6,182.9 | 6,181.7 | 6,168.3 | 13.4 | 12.8 | -134.62 | -324.0 | 260.7 | 584.8 | 560.5 | 24.25 | 24.113 | | |
| 6,300.0 | 6,282.6 | 6,281.2 | 6,267.6 | 13.6 | 13.0 | -134.61 | -329.7 | 264.5 | 594.2 | 569.6 | 24.65 | 24.109 | | |
| 6,400.0 | 6,382.3 | 6,380.8 | 6,366.9 | 13.8 | 13.2 | -134.61 | -335.3 | 268.4 | 603.7 | 578.7 | 25.05 | 24.104 | | |
| 6,500.0 | 6,482.0 | 6,482.0 | 6,468.0 | 14.0 | 13.3 | -135.04 | -336.4 | 272.3 | 613.1 | 587.7 | 25.38 | 24.159 | | |
| 6,600.0 | 6,581.7 | 6,579.6 | 6,564.2 | 14.3 | 13.4 | -136.93 | -321.3 | 276.1 | 622.5 | 597.0 | 25.55 | 24.367 | | |
| 6,700.0 | 6,681.4 | 6,668.2 | 6,648.2 | 14.5 | 13.3 | -139.86 | -293.6 | 279.3 | 633.6 | 608.0 | 25.60 | 24.750 | | |
| 6,800.0 | 6,781.1 | 6,745.3 | 6,717.1 | 14.7 | 13.2 | -143.23 | -259.1 | 282.0 | 648.4 | 622.8 | 25.58 | 25.343 | | |
| 6,900.0 | 6,880.8 | 6,811.4 | 6,772.0 | 14.9 | 13.1 | 162.97 | -222.5 | 284.1 | 668.8 | 643.3 | 25.53 | 26.196 | | |
| 7,000.0 | 6,980.1 | 6,873.4 | 6,819.4 | 15.0 | 13.0 | 91.88 | -182.6 | 286.0 | 693.2 | 667.9 | 25.37 | 27.326 | | |
| 7,100.0 | 7,076.2 | 6,933.9 | 6,861.2 | 15.0 | 13.0 | 78.73 | -138.9 | 287.6 | 719.2 | 694.1 | 25.14 | 28.607 | | |
| 7,200.0 | 7,166.3 | 7,000.0 | 6,901.3 | 14.9 | 13.0 | 71.33 | -86.5 | 289.2 | 745.1 | 720.3 | 24.84 | 29.997 | | |
| 7,300.0 | 7,247.6 | 7,050.0 | 6,927.5 | 14.8 | 13.0 | 66.49 | -43.9 | 290.2 | 769.2 | 744.7 | 24.52 | 31.372 | | |
| 7,400.0 | 7,317.6 | 7,100.0 | 6,949.9 | 14.8 | 13.1 | 62.83 | 0.8 | 291.1 | 790.6 | 766.4 | 24.18 | 32.693 | | |
| 7,500.0 | 7,374.3 | 7,167.5 | 6,973.8 | 14.8 | 13.3 | 59.92 | 63.8 | 292.0 | 808.0 | 784.1 | 23.93 | 33.762 | | |
| 7,600.0 | 7,415.8 | 7,224.8 | 6,988.2 | 15.0 | 13.6 | 58.04 | 119.3 | 292.6 | 821.1 | 797.2 | 23.89 | 34.374 | | |
| 7,700.0 | 7,441.0 | 7,282.0 | 6,996.9 | 15.4 | 13.9 | 56.95 | 175.8 | 292.9 | 829.3 | 805.1 | 24.16 | 34.321 | | |
| 7,800.0 | 7,449.0 | 7,341.4 | 7,000.0 | 15.9 | 14.3 | 56.61 | 235.1 | 293.0 | 832.3 | 807.5 | 24.85 | 33.492 | | |
| 7,900.0 | 7,449.0 | 7,437.3 | 7,000.0 | 16.7 | 15.0 | 56.66 | 331.0 | 293.0 | 833.3 | 807.1 | 26.23 | 31.773 | | |
| 8,000.0 | 7,449.0 | 7,537.3 | 7,000.0 | 17.5 | 16.0 | 56.70 | 430.9 | 293.0 | 834.4 | 806.5 | 27.86 | 29.950 | | |
| 8,100.0 | 7,449.0 | 7,637.3 | 7,000.0 | 18.5 | 17.0 | 56.75 | 530.9 | 293.0 | 835.4 | 805.7 | 29.69 | 28.133 | | |
| 8,200.0 | 7,449.0 | 7,737.3 | 7,000.0 | 19.6 | 18.2 | 56.80 | 630.9 | 293.0 | 836.4 | 804.7 | 31.70 | 26.385 | | |
| 8,300.0 | 7,449.0 | 7,837.2 | 7,000.0 | 20.8 | 19.5 | 56.84 | 730.9 | 293.0 | 837.4 | 803.6 | 33.85 | 24.742 | | |
| 8,400.0 | 7,449.0 | 7,937.2 | 7,000.0 | 22.1 | 20.8 | 56.89 | 830.9 | 293.0 | 838.4 | 802.3 | 36.11 | 23.219 | | |
| 8,500.0 | 7,449.0 | 8,037.2 | 7,000.0 | 23.4 | 22.2 | 56.93 | 930.9 | 293.0 | 839.5 | 801.0 | 38.47 | 21.822 | | |
| 8,600.0 | 7,449.0 | 8,137.2 | 7,000.0 | 24.8 | 23.6 | 56.98 | 1,030.9 | 293.0 | 840.5 | 799.6 | 40.91 | 20.545 | | |
| 8,700.0 | 7,449.0 | 8,237.2 | 7,000.0 | 26.2 | 25.1 | 57.02 | 1,130.9 | 293.0 | 841.5 | 798.1 | 43.42 | 19.382 | | |
| 8,800.0 | 7,449.0 | 8,337.2 | 7,000.0 | 27.7 | 26.6 | 57.07 | 1,230.9 | 293.0 | 842.5 | 796.6 | 45.98 | 18.323 | | |
| 8,900.0 | 7,449.0 | 8,437.2 | 7,000.0 | 29.2 | 28.2 | 57.11 | 1,330.9 | 293.0 | 843.6 | 795.0 | 48.60 | 17.359 | | |
| 9,000.0 | 7,449.0 | 8,537.2 | 7,000.0 | 30.7 | 29.7 | 57.16 | 1,430.9 | 293.0 | 844.6 | 793.3 | 51.25 | 16.480 | | |
| 9,100.0 | 7,449.0 | 8,637.2 | 7,000.0 | 32.3 | 31.3 | 57.20 | 1,530.9 | 293.0 | 845.6 | 791.7 | 53.94 | 15.677 | | |
| 9,200.0 | 7,449.0 | 8,737.2 | 7,000.0 | 33.8 | 32.9 | 57.25 | 1,630.9 | 293.0 | 846.6 | 790.0 | 56.66 | 14.942 | | |
| 9,300.0 | 7,449.0 | 8,837.2 | 7,000.0 | 35.4 | 34.5 | 57.29 | 1,730.8 | 293.0 | 847.7 | 788.3 | 59.41 | 14.268 | | |
| 9,400.0 | 7,449.0 | 8,937.2 | 7,000.0 | 37.0 | 36.2 | 57.34 | 1,830.8 | 293.0 | 848.7 | 786.5 | 62.19 | 13.648 | | |
| 9,500.0 | 7,449.0 | 9,037.2 | 7,000.0 | 38.6 | 37.8 | 57.38 | 1,930.8 | 293.0 | 849.7 | 784.8 | 64.98 | 13.077 | | |
| 9,600.0 | 7,449.0 | 9,137.1 | 7,000.0 | 40.3 | 39.5 | 57.43 | 2,030.8 | 293.0 | 850.8 | 783.0 | 67.79 | 12.549 | | |
| 9,700.0 | 7,449.0 | 9,237.1 | 7,000.0 | 41.9 | 41.1 | 57.47 | 2,130.8 | 293.0 | 851.8 | 781.2 | 70.62 | 12.061 | | |
| 9,800.0 | 7,449.0 | 9,337.1 | 7,000.0 | 43.5 | 42.8 | 57.52 | 2,230.8 | 293.0 | 852.8 | 779.3 | 73.47 | 11.608 | | |
| 9,900.0 | 7,449.0 | 9,437.1 | 7,000.0 | 45.2 | 44.5 | 57.56 | 2,330.8 | 293.0 | 853.8 | 777.5 | 76.33 | 11.186 | | |
| 10,000.0 | 7,449.0 | 9,537.1 | 7,000.0 | 46.8 | 46.2 | 57.60 | 2,430.8 | 293.0 | 854.9 | 775.7 | 79.20 | 10.793 | | |
| 10,100.0 | 7,449.0 | 9,637.1 | 7,000.0 | 48.5 | 47.8 | 57.65 | 2,530.8 | 293.0 | 855.9 | 773.8 | 82.09 | 10.427 | | |
| 10,200.0 | 7,449.0 | 9,737.1 | 7,000.0 | 50.2 | 49.5 | 57.69 | 2,630.8 | 293.0 | 856.9 | 772.0 | 84.99 | 10.083 | | |
| 10,300.0 | 7,449.0 | 9,837.1 | 7,000.0 | 51.9 | 51.2 | 57.73 | 2,730.8 | 293.0 | 858.0 | 770.1 | 87.89 | 9.762 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-M268 - 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 Depth (ft) | Vertical Depth (ft) | Measured Depth 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 | 7,449.0 | 9,937.1 | 7,000.0 | 53.6 | 52.9 | 57.78 | 2,830.8 | 293.0 | 859.0 | 768.2 | 90.81 | 9.460 | | |
| 10,500.0 | 7,449.0 | 10,037.1 | 7,000.0 | 55.2 | 54.6 | 57.82 | 2,930.8 | 293.0 | 860.0 | 766.3 | 93.73 | 9.176 | | |
| 10,600.0 | 7,449.0 | 10,137.1 | 7,000.0 | 56.9 | 56.3 | 57.86 | 3,030.7 | 293.0 | 861.1 | 764.4 | 96.66 | 8.908 | | |
| 10,700.0 | 7,449.0 | 10,237.1 | 7,000.0 | 58.6 | 58.0 | 57.91 | 3,130.7 | 293.0 | 862.1 | 762.5 | 99.60 | 8.656 | | |
| 10,800.0 | 7,449.0 | 10,337.1 | 7,000.0 | 60.3 | 59.7 | 57.95 | 3,230.7 | 293.0 | 863.1 | 760.6 | 102.55 | 8.417 | | |
| 10,900.0 | 7,449.0 | 10,437.1 | 7,000.0 | 62.0 | 61.5 | 57.99 | 3,330.7 | 293.0 | 864.2 | 758.7 | 105.50 | 8.191 | | |
| 11,000.0 | 7,449.0 | 10,537.0 | 7,000.0 | 63.7 | 63.2 | 58.04 | 3,430.7 | 293.0 | 865.2 | 756.8 | 108.46 | 7.977 | | |
| 11,100.0 | 7,449.0 | 10,637.0 | 7,000.0 | 65.4 | 64.9 | 58.08 | 3,530.7 | 293.0 | 866.3 | 754.8 | 111.43 | 7.774 | | |
| 11,200.0 | 7,449.0 | 10,737.0 | 7,000.0 | 67.1 | 66.6 | 58.12 | 3,630.7 | 293.0 | 867.3 | 752.9 | 114.40 | 7.581 | | |
| 11,300.0 | 7,449.0 | 10,837.0 | 7,000.0 | 68.9 | 68.3 | 58.16 | 3,730.7 | 293.0 | 868.3 | 751.0 | 117.38 | 7.398 | | |
| 11,400.0 | 7,449.0 | 10,937.0 | 7,000.0 | 70.6 | 70.0 | 58.21 | 3,830.7 | 293.0 | 869.4 | 749.0 | 120.36 | 7.223 | | |
| 11,500.0 | 7,449.0 | 11,037.0 | 7,000.0 | 72.3 | 71.8 | 58.25 | 3,930.7 | 293.0 | 870.4 | 747.1 | 123.35 | 7.056 | | |
| 11,600.0 | 7,449.0 | 11,137.0 | 7,000.0 | 74.0 | 73.5 | 58.29 | 4,030.7 | 293.0 | 871.4 | 745.1 | 126.34 | 6.897 | | |
| 11,700.0 | 7,449.0 | 11,237.0 | 7,000.0 | 75.7 | 75.2 | 58.33 | 4,130.7 | 293.0 | 872.5 | 743.1 | 129.34 | 6.746 | | |
| 11,800.0 | 7,449.0 | 11,337.0 | 7,000.0 | 77.4 | 77.0 | 58.38 | 4,230.7 | 293.0 | 873.5 | 741.2 | 132.35 | 6.600 | | |
| 11,900.0 | 7,449.0 | 11,437.0 | 7,000.0 | 79.2 | 78.7 | 58.42 | 4,330.7 | 293.0 | 874.6 | 739.2 | 135.35 | 6.461 | | |
| 12,000.0 | 7,449.0 | 11,537.0 | 7,000.0 | 80.9 | 80.4 | 58.46 | 4,430.6 | 293.0 | 875.6 | 737.2 | 138.36 | 6.328 | | |
| 12,100.0 | 7,449.0 | 11,637.0 | 7,000.0 | 82.6 | 82.1 | 58.50 | 4,530.6 | 293.0 | 876.6 | 735.3 | 141.38 | 6.201 | | |
| 12,200.0 | 7,449.0 | 11,737.0 | 7,000.0 | 84.3 | 83.9 | 58.54 | 4,630.6 | 293.0 | 877.7 | 733.3 | 144.40 | 6.078 | | |
| 12,300.0 | 7,449.0 | 11,836.9 | 7,000.0 | 86.1 | 85.6 | 58.58 | 4,730.6 | 293.0 | 878.7 | 731.3 | 147.42 | 5.961 | | |
| 12,400.0 | 7,449.0 | 11,936.9 | 7,000.0 | 87.8 | 87.3 | 58.63 | 4,830.6 | 293.0 | 879.8 | 729.3 | 150.45 | 5.848 | | |
| 12,500.0 | 7,449.0 | 12,036.9 | 7,000.0 | 89.5 | 89.1 | 58.67 | 4,930.6 | 293.0 | 880.8 | 727.3 | 153.48 | 5.739 | | |
| 12,600.0 | 7,449.0 | 12,136.9 | 7,000.0 | 91.3 | 90.8 | 58.71 | 5,030.6 | 293.0 | 881.9 | 725.3 | 156.52 | 5.634 | | |
| 12,700.0 | 7,449.0 | 12,236.9 | 7,000.0 | 93.0 | 92.5 | 58.75 | 5,130.6 | 293.0 | 882.9 | 723.4 | 159.55 | 5.534 | | |
| 12,800.0 | 7,449.0 | 12,336.9 | 7,000.0 | 94.7 | 94.3 | 58.79 | 5,230.6 | 293.0 | 884.0 | 721.4 | 162.60 | 5.436 | | |
| 12,900.0 | 7,449.0 | 12,436.9 | 7,000.0 | 96.5 | 96.0 | 58.83 | 5,330.6 | 293.0 | 885.0 | 719.4 | 165.64 | 5.343 | | |
| 13,000.0 | 7,449.0 | 12,536.9 | 7,000.0 | 98.2 | 97.8 | 58.87 | 5,430.6 | 293.0 | 886.0 | 717.4 | 168.69 | 5.252 | | |
| 13,100.0 | 7,449.0 | 12,636.9 | 7,000.0 | 99.9 | 99.5 | 58.91 | 5,530.6 | 293.0 | 887.1 | 715.3 | 171.74 | 5.165 | | |
| 13,200.0 | 7,449.0 | 12,736.9 | 7,000.0 | 101.7 | 101.2 | 58.95 | 5,630.6 | 293.0 | 888.1 | 713.3 | 174.80 | 5.081 | | |
| 13,300.0 | 7,449.0 | 12,836.9 | 7,000.0 | 103.4 | 103.0 | 59.00 | 5,730.5 | 293.0 | 889.2 | 711.3 | 177.86 | 4.999 | | |
| 13,400.0 | 7,449.0 | 12,936.9 | 7,000.0 | 105.1 | 104.7 | 59.04 | 5,830.5 | 293.0 | 890.2 | 709.3 | 180.92 | 4.921 | | |
| 13,500.0 | 7,449.0 | 13,036.9 | 7,000.0 | 106.9 | 106.5 | 59.08 | 5,930.5 | 293.0 | 891.3 | 707.3 | 183.98 | 4.844 | | |
| 13,600.0 | 7,449.0 | 13,136.9 | 7,000.0 | 108.6 | 108.2 | 59.12 | 6,030.5 | 293.0 | 892.3 | 705.3 | 187.05 | 4.771 | | |
| 13,700.0 | 7,449.0 | 13,236.8 | 7,000.0 | 110.3 | 109.9 | 59.16 | 6,130.5 | 293.0 | 893.4 | 703.3 | 190.12 | 4.699 | | |
| 13,800.0 | 7,449.0 | 13,336.8 | 7,000.0 | 112.1 | 111.7 | 59.20 | 6,230.5 | 293.0 | 894.4 | 701.2 | 193.19 | 4.630 | | |
| 13,900.0 | 7,449.0 | 13,436.8 | 7,000.0 | 113.8 | 113.4 | 59.24 | 6,330.5 | 293.0 | 895.5 | 699.2 | 196.27 | 4.562 | | |
| 14,000.0 | 7,449.0 | 13,536.8 | 7,000.0 | 115.6 | 115.2 | 59.28 | 6,430.5 | 293.0 | 896.5 | 697.2 | 199.35 | 4.497 | | |
| 14,100.0 | 7,449.0 | 13,636.8 | 7,000.0 | 117.3 | 116.9 | 59.32 | 6,530.5 | 293.0 | 897.6 | 695.1 | 202.43 | 4.434 | | |
| 14,200.0 | 7,449.0 | 13,736.8 | 7,000.0 | 119.0 | 118.7 | 59.36 | 6,630.5 | 293.0 | 898.6 | 693.1 | 205.52 | 4.373 | | |
| 14,300.0 | 7,449.0 | 13,836.8 | 7,000.0 | 120.8 | 120.4 | 59.40 | 6,730.5 | 293.0 | 899.7 | 691.1 | 208.60 | 4.313 | | |
| 14,400.0 | 7,449.0 | 13,936.8 | 7,000.0 | 122.5 | 122.1 | 59.44 | 6,830.5 | 293.0 | 900.7 | 689.0 | 211.69 | 4.255 | | |
| 14,500.0 | 7,449.0 | 14,036.8 | 7,000.0 | 124.3 | 123.9 | 59.48 | 6,930.5 | 293.0 | 901.8 | 687.0 | 214.79 | 4.199 | | |
| 14,600.0 | 7,449.0 | 14,136.8 | 7,000.0 | 126.0 | 125.6 | 59.51 | 7,030.5 | 293.0 | 902.8 | 684.9 | 217.88 | 4.144 | | |
| 14,700.0 | 7,449.0 | 14,236.8 | 7,000.0 | 127.7 | 127.4 | 59.55 | 7,130.4 | 293.0 | 903.9 | 682.9 | 220.98 | 4.090 | | |
| 14,800.0 | 7,449.0 | 14,336.8 | 7,000.0 | 129.5 | 129.1 | 59.59 | 7,230.4 | 293.0 | 904.9 | 680.9 | 224.08 | 4.038 | | |
| 14,900.0 | 7,449.0 | 14,436.8 | 7,000.0 | 131.2 | 130.9 | 59.63 | 7,330.4 | 293.0 | 906.0 | 678.8 | 227.18 | 3.988 | | |
| 15,000.0 | 7,449.0 | 14,536.7 | 7,000.0 | 133.0 | 132.6 | 59.67 | 7,430.4 | 293.0 | 907.0 | 676.8 | 230.29 | 3.939 | | |
| 15,100.0 | 7,449.0 | 14,636.7 | 7,000.0 | 134.7 | 134.4 | 59.71 | 7,530.4 | 293.0 | 908.1 | 674.7 | 233.39 | 3.891 | | |
| 15,176.1 | 7,449.0 | 14,711.4 | 7,000.0 | 136.0 | 135.7 | 59.74 | 7,605.1 | 293.0 | 908.9 | 673.2 | 235.74 | 3.856 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 9.0 | 9.0 | 0.0 | 0.0 | 90.41 | -0.4 | 50.1 | 50.1 | | | | | |
| 100.0 | 100.0 | 109.0 | 109.0 | 0.2 | 0.1 | 90.41 | -0.4 | 50.1 | 50.1 | 49.8 | 0.30 | 167.740 | | |
| 200.0 | 200.0 | 209.0 | 209.0 | 0.3 | 0.3 | 90.41 | -0.4 | 50.1 | 50.1 | 49.4 | 0.65 | 77.314 | CC, ES | |
| 300.0 | 300.0 | 308.9 | 308.9 | 0.5 | 0.5 | -136.57 | -0.4 | 50.1 | 50.7 | 49.7 | 1.00 | 50.856 | | |
| 400.0 | 400.0 | 408.2 | 408.2 | 0.7 | 0.7 | -137.77 | -1.0 | 50.8 | 53.4 | 52.0 | 1.35 | 39.629 | | |
| 500.0 | 499.9 | 507.3 | 507.3 | 0.9 | 0.8 | -138.81 | -2.8 | 52.9 | 58.7 | 57.0 | 1.70 | 34.480 | | |
| 600.0 | 599.7 | 606.2 | 606.1 | 1.1 | 1.0 | -139.60 | -5.6 | 56.3 | 66.6 | 64.5 | 2.06 | 32.254 | | |
| 700.0 | 699.4 | 704.8 | 704.5 | 1.3 | 1.2 | -140.05 | -9.6 | 61.0 | 76.9 | 74.4 | 2.44 | 31.561 | | |
| 800.0 | 799.1 | 803.1 | 802.5 | 1.5 | 1.4 | -139.72 | -14.6 | 67.0 | 88.5 | 85.7 | 2.81 | 31.441 | | |
| 900.0 | 898.8 | 902.2 | 901.2 | 1.7 | 1.7 | -139.06 | -20.2 | 73.7 | 100.9 | 97.7 | 3.20 | 31.519 | | |
| 1,000.0 | 998.5 | 1,001.5 | 1,000.0 | 1.9 | 1.9 | -138.55 | -25.9 | 80.5 | 113.3 | 109.7 | 3.59 | 31.561 | | |
| 1,100.0 | 1,098.2 | 1,100.7 | 1,098.8 | 2.1 | 2.1 | -138.13 | -31.7 | 87.3 | 125.7 | 121.7 | 3.98 | 31.582 | | |
| 1,200.0 | 1,197.9 | 1,199.9 | 1,197.7 | 2.4 | 2.3 | -137.79 | -37.4 | 94.1 | 138.1 | 133.7 | 4.37 | 31.592 | | |
| 1,300.0 | 1,297.6 | 1,299.1 | 1,296.5 | 2.6 | 2.5 | -137.51 | -43.1 | 100.9 | 150.5 | 145.7 | 4.76 | 31.595 | | |
| 1,400.0 | 1,397.3 | 1,398.4 | 1,395.3 | 2.8 | 2.8 | -137.27 | -48.8 | 107.7 | 162.9 | 157.7 | 5.16 | 31.594 | | |
| 1,500.0 | 1,497.0 | 1,497.6 | 1,494.2 | 3.0 | 3.0 | -137.06 | -54.5 | 114.5 | 175.3 | 169.7 | 5.55 | 31.591 | | |
| 1,600.0 | 1,596.7 | 1,596.8 | 1,593.0 | 3.2 | 3.2 | -136.89 | -60.2 | 121.3 | 187.7 | 181.8 | 5.94 | 31.585 | | |
| 1,700.0 | 1,696.4 | 1,696.0 | 1,691.8 | 3.4 | 3.5 | -136.73 | -65.9 | 128.1 | 200.1 | 193.8 | 6.34 | 31.579 | | |
| 1,800.0 | 1,796.1 | 1,795.3 | 1,790.6 | 3.7 | 3.7 | -136.59 | -71.6 | 134.9 | 212.5 | 205.8 | 6.73 | 31.573 | | |
| 1,900.0 | 1,895.8 | 1,894.5 | 1,889.5 | 3.9 | 3.9 | -136.47 | -77.3 | 141.7 | 224.9 | 217.8 | 7.13 | 31.566 | | |
| 2,000.0 | 1,995.5 | 1,993.7 | 1,988.3 | 4.1 | 4.1 | -136.36 | -83.0 | 148.5 | 237.4 | 229.8 | 7.52 | 31.559 | | |
| 2,100.0 | 2,095.2 | 2,092.9 | 2,087.1 | 4.3 | 4.4 | -136.26 | -88.7 | 155.3 | 249.8 | 241.9 | 7.92 | 31.553 | | |
| 2,200.0 | 2,194.9 | 2,192.2 | 2,185.9 | 4.5 | 4.6 | -136.17 | -94.4 | 162.0 | 262.2 | 253.9 | 8.31 | 31.547 | | |
| 2,300.0 | 2,294.6 | 2,291.4 | 2,284.8 | 4.8 | 4.8 | -136.09 | -100.1 | 168.8 | 274.6 | 265.9 | 8.71 | 31.540 | | |
| 2,400.0 | 2,394.3 | 2,390.6 | 2,383.6 | 5.0 | 5.1 | -136.01 | -105.8 | 175.6 | 287.0 | 277.9 | 9.10 | 31.534 | | |
| 2,500.0 | 2,494.0 | 2,489.8 | 2,482.4 | 5.2 | 5.3 | -135.94 | -111.5 | 182.4 | 299.5 | 290.0 | 9.50 | 31.529 | | |
| 2,600.0 | 2,593.7 | 2,589.1 | 2,581.3 | 5.4 | 5.5 | -135.88 | -117.2 | 189.2 | 311.9 | 302.0 | 9.89 | 31.523 | | |
| 2,700.0 | 2,693.4 | 2,688.3 | 2,680.1 | 5.6 | 5.8 | -135.82 | -122.9 | 196.0 | 324.3 | 314.0 | 10.29 | 31.518 | | |
| 2,800.0 | 2,793.1 | 2,787.5 | 2,778.9 | 5.9 | 6.0 | -135.77 | -128.6 | 202.8 | 336.7 | 326.0 | 10.69 | 31.513 | | |
| 2,900.0 | 2,892.8 | 2,886.7 | 2,877.7 | 6.1 | 6.2 | -135.72 | -134.3 | 209.6 | 349.1 | 338.1 | 11.08 | 31.508 | | |
| 3,000.0 | 2,992.5 | 2,986.0 | 2,976.6 | 6.3 | 6.5 | -135.67 | -140.0 | 216.4 | 361.6 | 350.1 | 11.48 | 31.503 | | |
| 3,100.0 | 3,092.2 | 3,085.2 | 3,075.4 | 6.5 | 6.7 | -135.63 | -145.7 | 223.2 | 374.0 | 362.1 | 11.87 | 31.499 | | |
| 3,200.0 | 3,191.9 | 3,184.4 | 3,174.2 | 6.7 | 6.9 | -135.59 | -151.4 | 230.0 | 386.4 | 374.1 | 12.27 | 31.495 | | |
| 3,300.0 | 3,291.6 | 3,283.6 | 3,273.1 | 7.0 | 7.2 | -135.55 | -157.1 | 236.8 | 398.8 | 386.2 | 12.67 | 31.491 | | |
| 3,400.0 | 3,391.3 | 3,382.9 | 3,371.9 | 7.2 | 7.4 | -135.51 | -162.8 | 243.6 | 411.3 | 398.2 | 13.06 | 31.487 | | |
| 3,500.0 | 3,491.0 | 3,482.1 | 3,470.7 | 7.4 | 7.6 | -135.48 | -168.5 | 250.4 | 423.7 | 410.2 | 13.46 | 31.483 | | |
| 3,600.0 | 3,590.7 | 3,581.3 | 3,569.5 | 7.6 | 7.9 | -135.45 | -174.2 | 257.1 | 436.1 | 422.3 | 13.85 | 31.480 | | |
| 3,700.0 | 3,690.4 | 3,680.5 | 3,668.4 | 7.9 | 8.1 | -135.42 | -179.9 | 263.9 | 448.5 | 434.3 | 14.25 | 31.476 | | |
| 3,800.0 | 3,790.1 | 3,779.8 | 3,767.2 | 8.1 | 8.3 | -135.39 | -185.6 | 270.7 | 461.0 | 446.3 | 14.65 | 31.473 | | |
| 3,900.0 | 3,889.8 | 3,879.0 | 3,866.0 | 8.3 | 8.5 | -135.36 | -191.3 | 277.5 | 473.4 | 458.3 | 15.04 | 31.470 | | |
| 4,000.0 | 3,989.5 | 3,978.2 | 3,964.8 | 8.5 | 8.8 | -135.33 | -197.0 | 284.3 | 485.8 | 470.4 | 15.44 | 31.467 | | |
| 4,100.0 | 4,089.2 | 4,077.4 | 4,063.7 | 8.7 | 9.0 | -135.31 | -202.7 | 291.1 | 498.2 | 482.4 | 15.83 | 31.464 | | |
| 4,200.0 | 4,188.9 | 4,176.7 | 4,162.5 | 9.0 | 9.2 | -135.29 | -208.4 | 297.9 | 510.7 | 494.4 | 16.23 | 31.462 | | |
| 4,300.0 | 4,288.6 | 4,275.9 | 4,261.3 | 9.2 | 9.5 | -135.26 | -214.1 | 304.7 | 523.1 | 506.5 | 16.63 | 31.459 | | |
| 4,400.0 | 4,388.3 | 4,375.1 | 4,360.2 | 9.4 | 9.7 | -135.24 | -219.8 | 311.5 | 535.5 | 518.5 | 17.02 | 31.456 | | |
| 4,500.0 | 4,488.0 | 4,474.3 | 4,459.0 | 9.6 | 9.9 | -135.22 | -225.5 | 318.3 | 547.9 | 530.5 | 17.42 | 31.454 | | |
| 4,600.0 | 4,587.7 | 4,573.6 | 4,557.8 | 9.8 | 10.2 | -135.20 | -231.2 | 325.1 | 560.4 | 542.5 | 17.82 | 31.452 | | |
| 4,700.0 | 4,687.4 | 4,672.8 | 4,656.6 | 10.1 | 10.4 | -135.19 | -236.9 | 331.9 | 572.8 | 554.6 | 18.21 | 31.449 | | |
| 4,800.0 | 4,787.1 | 4,772.0 | 4,755.5 | 10.3 | 10.6 | -135.17 | -242.6 | 338.7 | 585.2 | 566.6 | 18.61 | 31.447 | | |
| 4,900.0 | 4,886.8 | 4,871.2 | 4,854.3 | 10.5 | 10.9 | -135.15 | -248.3 | 345.4 | 597.6 | 578.6 | 19.01 | 31.445 | | |
| 5,000.0 | 4,986.5 | 4,970.5 | 4,953.1 | 10.7 | 11.1 | -135.14 | -254.1 | 352.2 | 610.0 | 590.6 | 19.40 | 31.443 | | |
| 5,100.0 | 5,086.2 | 5,069.7 | 5,052.0 | 10.9 | 11.3 | -135.12 | -259.8 | 359.0 | 622.5 | 602.7 | 19.80 | 31.441 | | |

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 Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|---------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor | | |
| 5,200.0 | 5,185.9 | 5,168.9 | 5,150.8 | 11.2 | 11.6 | -135.10 | -265.5 | 365.8 | 634.9 | 614.7 | 20.19 | 31.439 | | |
| 5,300.0 | 5,285.6 | 5,268.1 | 5,249.6 | 11.4 | 11.8 | -135.09 | -271.2 | 372.6 | 647.3 | 626.7 | 20.59 | 31.437 | | |
| 5,400.0 | 5,385.3 | 5,367.4 | 5,348.4 | 11.6 | 12.0 | -135.08 | -276.9 | 379.4 | 659.7 | 638.8 | 20.99 | 31.436 | | |
| 5,500.0 | 5,485.0 | 5,466.6 | 5,447.3 | 11.8 | 12.3 | -135.06 | -282.6 | 386.2 | 672.2 | 650.8 | 21.38 | 31.434 | | |
| 5,600.0 | 5,584.7 | 5,565.8 | 5,546.1 | 12.0 | 12.5 | -135.05 | -288.3 | 393.0 | 684.6 | 662.8 | 21.78 | 31.432 | | |
| 5,700.0 | 5,684.4 | 5,665.0 | 5,644.9 | 12.3 | 12.7 | -135.04 | -294.0 | 399.8 | 697.0 | 674.8 | 22.18 | 31.431 | | |
| 5,800.0 | 5,784.1 | 5,764.3 | 5,743.7 | 12.5 | 13.0 | -135.03 | -299.7 | 406.6 | 709.4 | 686.9 | 22.57 | 31.429 | | |
| 5,900.0 | 5,883.8 | 5,863.5 | 5,842.6 | 12.7 | 13.2 | -135.01 | -305.4 | 413.4 | 721.9 | 698.9 | 22.97 | 31.427 | | |
| 6,000.0 | 5,983.5 | 5,962.7 | 5,941.4 | 12.9 | 13.4 | -135.00 | -311.1 | 420.2 | 734.3 | 710.9 | 23.37 | 31.426 | | |
| 6,100.0 | 6,083.2 | 6,061.9 | 6,040.2 | 13.1 | 13.7 | -134.99 | -316.8 | 427.0 | 746.7 | 723.0 | 23.76 | 31.425 | | |
| 6,200.0 | 6,182.9 | 6,161.2 | 6,139.1 | 13.4 | 13.9 | -134.98 | -322.5 | 433.7 | 759.1 | 735.0 | 24.16 | 31.423 | | |
| 6,300.0 | 6,282.6 | 6,260.4 | 6,237.9 | 13.6 | 14.1 | -134.97 | -328.2 | 440.5 | 771.6 | 747.0 | 24.56 | 31.422 | | |
| 6,400.0 | 6,382.3 | 6,359.6 | 6,336.7 | 13.8 | 14.4 | -134.96 | -333.9 | 447.3 | 784.0 | 759.0 | 24.95 | 31.421 SF | | |
| 6,500.0 | 6,482.0 | 6,459.8 | 6,436.6 | 14.0 | 14.6 | -135.06 | -338.2 | 454.2 | 796.4 | 771.1 | 25.33 | 31.445 | | |
| 6,600.0 | 6,581.7 | 6,558.9 | 6,534.8 | 14.3 | 14.7 | -136.16 | -328.2 | 461.0 | 808.7 | 783.1 | 25.58 | 31.619 | | |
| 6,700.0 | 6,681.4 | 6,650.0 | 6,622.4 | 14.5 | 14.7 | -138.18 | -304.2 | 467.0 | 821.8 | 796.1 | 25.72 | 31.952 | | |
| 6,800.0 | 6,781.1 | 6,730.9 | 6,696.1 | 14.7 | 14.6 | -140.70 | -271.5 | 472.0 | 837.3 | 811.5 | 25.79 | 32.465 | | |
| 6,900.0 | 6,880.8 | 6,800.0 | 6,754.9 | 14.9 | 14.5 | 166.32 | -235.5 | 476.1 | 856.6 | 830.7 | 25.82 | 33.170 | | |
| 7,000.0 | 6,980.1 | 6,865.5 | 6,806.3 | 15.0 | 14.5 | 96.02 | -195.1 | 479.6 | 878.9 | 853.1 | 25.74 | 34.138 | | |
| 7,100.0 | 7,076.2 | 6,928.7 | 6,851.2 | 15.0 | 14.4 | 83.55 | -150.8 | 482.7 | 902.3 | 876.8 | 25.57 | 35.290 | | |
| 7,200.0 | 7,166.3 | 6,990.6 | 6,890.3 | 14.9 | 14.4 | 76.88 | -102.8 | 485.4 | 925.6 | 900.3 | 25.32 | 36.563 | | |
| 7,300.0 | 7,247.6 | 7,050.0 | 6,922.6 | 14.8 | 14.5 | 72.22 | -53.1 | 487.6 | 947.4 | 922.4 | 25.02 | 37.869 | | |
| 7,400.0 | 7,317.6 | 7,111.8 | 6,950.7 | 14.8 | 14.6 | 68.68 | 1.9 | 489.5 | 966.7 | 941.9 | 24.74 | 39.070 | | |
| 7,500.0 | 7,374.3 | 7,171.6 | 6,972.0 | 14.8 | 14.7 | 66.09 | 57.6 | 491.0 | 982.7 | 958.1 | 24.57 | 39.996 | | |
| 7,600.0 | 7,415.8 | 7,231.0 | 6,987.4 | 15.0 | 15.0 | 64.29 | 115.0 | 492.1 | 994.7 | 970.0 | 24.64 | 40.376 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S22-T2N-R68W (Jillson-East Rinn) - NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - NO SURVE | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------------------------|
| Survey Program: 7710-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) | | | |
| 8,400.0 | 7,449.0 | 7,403.0 | 7,403.0 | 22.1 | 12.9 | 90.00 | 1,618.1 | 104.6 | 940.1 | 906.2 | 33.87 | 27.758 | |
| 8,500.0 | 7,449.0 | 7,403.0 | 7,403.0 | 23.4 | 12.9 | 90.00 | 1,618.1 | 104.6 | 858.8 | 823.6 | 35.27 | 24.353 | |
| 8,600.0 | 7,449.0 | 7,403.0 | 7,403.0 | 24.8 | 12.9 | 90.00 | 1,618.1 | 104.6 | 781.9 | 745.2 | 36.71 | 21.300 | |
| 8,700.0 | 7,449.0 | 7,403.0 | 7,403.0 | 26.2 | 12.9 | 90.00 | 1,618.1 | 104.6 | 710.8 | 672.6 | 38.20 | 18.610 | |
| 8,800.0 | 7,449.0 | 7,403.0 | 7,403.0 | 27.7 | 12.9 | 90.00 | 1,618.1 | 104.6 | 647.4 | 607.6 | 39.71 | 16.301 | |
| 8,900.0 | 7,449.0 | 7,403.0 | 7,403.0 | 29.2 | 12.9 | 90.00 | 1,618.1 | 104.6 | 594.1 | 552.8 | 41.26 | 14.399 | |
| 9,000.0 | 7,449.0 | 7,403.0 | 7,403.0 | 30.7 | 12.9 | 90.00 | 1,618.1 | 104.6 | 553.8 | 511.0 | 42.82 | 12.933 | |
| 9,100.0 | 7,449.0 | 7,403.0 | 7,403.0 | 32.3 | 12.9 | 90.00 | 1,618.1 | 104.6 | 529.7 | 485.3 | 44.41 | 11.926 | |
| 9,180.9 | 7,449.0 | 7,403.0 | 7,403.0 | 33.5 | 12.9 | 90.00 | 1,618.1 | 104.6 | 523.5 | 477.7 | 45.71 | 11.452 CC, ES | |
| 9,200.0 | 7,449.0 | 7,403.0 | 7,403.0 | 33.8 | 12.9 | 90.00 | 1,618.1 | 104.6 | 523.8 | 477.8 | 46.02 | 11.383 | |
| 9,300.0 | 7,449.0 | 7,403.0 | 7,403.0 | 35.4 | 12.9 | 90.00 | 1,618.1 | 104.6 | 536.8 | 489.2 | 47.63 | 11.270 SF | |
| 9,400.0 | 7,449.0 | 7,403.0 | 7,403.0 | 37.0 | 12.9 | 90.00 | 1,618.1 | 104.6 | 567.5 | 518.2 | 49.26 | 11.519 | |
| 9,500.0 | 7,449.0 | 7,403.0 | 7,403.0 | 38.6 | 12.9 | 90.00 | 1,618.1 | 104.6 | 613.1 | 562.1 | 50.91 | 12.043 | |
| 9,600.0 | 7,449.0 | 7,403.0 | 7,403.0 | 40.3 | 12.9 | 90.00 | 1,618.1 | 104.6 | 670.6 | 618.0 | 52.56 | 12.758 | |
| 9,700.0 | 7,449.0 | 7,403.0 | 7,403.0 | 41.9 | 12.9 | 90.00 | 1,618.1 | 104.6 | 737.2 | 683.0 | 54.22 | 13.597 | |
| 9,800.0 | 7,449.0 | 7,403.0 | 7,403.0 | 43.5 | 12.9 | 90.00 | 1,618.1 | 104.6 | 810.7 | 754.9 | 55.89 | 14.507 | |
| 9,900.0 | 7,449.0 | 7,403.0 | 7,403.0 | 45.2 | 12.9 | 90.00 | 1,618.1 | 104.6 | 889.5 | 831.9 | 57.56 | 15.452 | |
| 10,000.0 | 7,449.0 | 7,403.0 | 7,403.0 | 46.8 | 12.9 | 90.00 | 1,618.1 | 104.6 | 972.1 | 912.8 | 59.24 | 16.409 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Jillson-East Rinn 3A-22H-M268 |
| Project: | DJ Wattenberg | TVD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Reference Site: | S22-T2N-R68W (Jillson-East Rinn) | MD Reference: | 13' KB @ 4966.0ft (Ensign 124) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Jillson-East Rinn 3A-22H-M268 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #2 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to 13' KB @ 4966.0ft (Ensign 124)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Jillson-East Rinn 3A-22H-M268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°

