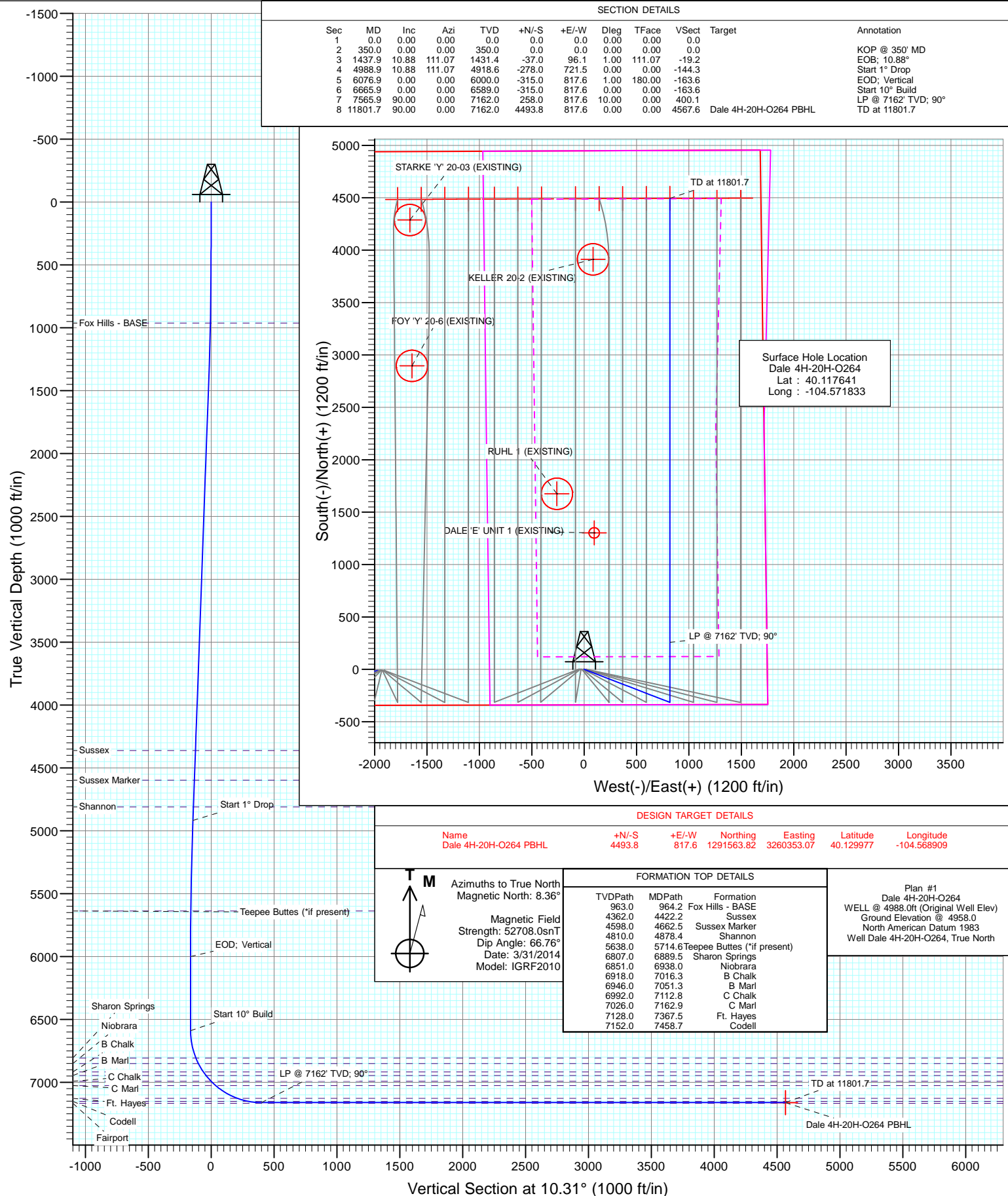




Project: DJ Wattenberg  
Site: S20-T2N-R64W (Dale)  
Well: Dale 4H-20H-O264  
Wellbore: HZ  
Design: Plan #1





## Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** DJ Wattenberg  
**Site:** S20-T2N-R64W (Dale)  
**Well:** Dale 4H-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4H-20H-O264  
**TVD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Project** DJ Wattenberg

**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** Colorado Northern Zone  
**System Datum:** Mean Sea Level

**Site** S20-T2N-R64W (Dale)

**Site Position:**  
**From:** Lat/Long  
**Position Uncertainty:** 0.0 ft  
**Northing:** 1,287,029.38 ft  
**Easting:** 3,257,598.23 ft  
**Slot Radius:** 13.200 in  
**Latitude:** 40.117609  
**Longitude:** -104.578929  
**Grid Convergence:** 0.60 °

**Well** Dale 4H-20H-O264

**Well Position** **+N/-S** 0.0 ft **Northing:** 1,287,061.73 ft **Latitude:** 40.117641  
**+E/-W** 0.0 ft **Easting:** 3,259,582.54 ft **Longitude:** -104.571833  
**Position Uncertainty** 0.0 ft **Wellhead Elevation:** ft **Ground Level:** 4,958.0 ft

**Wellbore** HZ

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2010   | 3/31/2014   | 8.36            | 66.76         | 52,708              |

**Design** Plan #1

**Audit Notes:**

**Version:** **Phase:** PLAN **Tie On Depth:** 0.0

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|-------------------|-----------------------|------------|------------|---------------|
|                   | 0.0                   | 0.0        | 0.0        | 10.31         |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target             |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 350.0               | 0.00            | 0.00        | 350.0               | 0.0        | 0.0        | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 1,437.9             | 10.88           | 111.07      | 1,431.4             | -37.0      | 96.1       | 1.00                  | 1.00                 | 0.00                | 111.07  |                    |
| 4,988.9             | 10.88           | 111.07      | 4,918.6             | -278.0     | 721.5      | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 6,076.9             | 0.00            | 0.00        | 6,000.0             | -315.0     | 817.6      | 1.00                  | -1.00                | 0.00                | 180.00  |                    |
| 6,665.9             | 0.00            | 0.00        | 6,589.0             | -315.0     | 817.6      | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 7,565.9             | 90.00           | 0.00        | 7,162.0             | 258.0      | 817.6      | 10.00                 | 10.00                | 0.00                | 0.00    |                    |
| 11,801.7            | 90.00           | 0.00        | 7,162.0             | 4,493.8    | 817.6      | 0.00                  | 0.00                 | 0.00                | 0.00    | Dale 4H-20H-O264 P |



## Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** DJ Wattenberg  
**Site:** S20-T2N-R64W (Dale)  
**Well:** Dale 4H-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4H-20H-O264  
**TVD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 |                       |
| 100.0               | 0.00            | 0.00        | 100.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 |                       |
| 200.0               | 0.00            | 0.00        | 200.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 |                       |
| 300.0               | 0.00            | 0.00        | 300.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 |                       |
| 350.0               | 0.00            | 0.00        | 350.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | KOP @ 350' MD         |
| 400.0               | 0.50            | 111.07      | 400.0               | -0.1       | 0.2        | 0.0                   | 1.00                  | 1.00                 |                       |
| 500.0               | 1.50            | 111.07      | 500.0               | -0.7       | 1.8        | -0.4                  | 1.00                  | 1.00                 |                       |
| 600.0               | 2.50            | 111.07      | 599.9               | -2.0       | 5.1        | -1.0                  | 1.00                  | 1.00                 |                       |
| 700.0               | 3.50            | 111.07      | 699.8               | -3.8       | 10.0       | -2.0                  | 1.00                  | 1.00                 |                       |
| 800.0               | 4.50            | 111.07      | 799.5               | -6.3       | 16.5       | -3.3                  | 1.00                  | 1.00                 |                       |
| 900.0               | 5.50            | 111.07      | 899.2               | -9.5       | 24.6       | -4.9                  | 1.00                  | 1.00                 |                       |
| 964.2               | 6.14            | 111.07      | 963.0               | -11.8      | 30.7       | -6.1                  | 1.00                  | 1.00                 | Fox Hills - BASE      |
| 1,000.0             | 6.50            | 111.07      | 998.6               | -13.2      | 34.4       | -6.9                  | 1.00                  | 1.00                 |                       |
| 1,100.0             | 7.50            | 111.07      | 1,097.9             | -17.6      | 45.7       | -9.2                  | 1.00                  | 1.00                 |                       |
| 1,200.0             | 8.50            | 111.07      | 1,196.9             | -22.6      | 58.7       | -11.7                 | 1.00                  | 1.00                 |                       |
| 1,300.0             | 9.50            | 111.07      | 1,295.7             | -28.2      | 73.3       | -14.7                 | 1.00                  | 1.00                 |                       |
| 1,400.0             | 10.50           | 111.07      | 1,394.1             | -34.5      | 89.5       | -17.9                 | 1.00                  | 1.00                 |                       |
| 1,437.9             | 10.88           | 111.07      | 1,431.4             | -37.0      | 96.1       | -19.2                 | 1.00                  | 1.00                 | EOB; 10.88°           |
| 1,500.0             | 10.88           | 111.07      | 1,492.4             | -41.2      | 107.0      | -21.4                 | 0.00                  | 0.00                 |                       |
| 1,600.0             | 10.88           | 111.07      | 1,590.6             | -48.0      | 124.6      | -24.9                 | 0.00                  | 0.00                 |                       |
| 1,700.0             | 10.88           | 111.07      | 1,688.8             | -54.8      | 142.2      | -28.5                 | 0.00                  | 0.00                 |                       |
| 1,800.0             | 10.88           | 111.07      | 1,787.0             | -61.6      | 159.9      | -32.0                 | 0.00                  | 0.00                 |                       |
| 1,900.0             | 10.88           | 111.07      | 1,885.2             | -68.4      | 177.5      | -35.5                 | 0.00                  | 0.00                 |                       |
| 2,000.0             | 10.88           | 111.07      | 1,983.4             | -75.2      | 195.1      | -39.0                 | 0.00                  | 0.00                 |                       |
| 2,100.0             | 10.88           | 111.07      | 2,081.6             | -81.9      | 212.7      | -42.5                 | 0.00                  | 0.00                 |                       |
| 2,200.0             | 10.88           | 111.07      | 2,179.8             | -88.7      | 230.3      | -46.1                 | 0.00                  | 0.00                 |                       |
| 2,300.0             | 10.88           | 111.07      | 2,278.0             | -95.5      | 247.9      | -49.6                 | 0.00                  | 0.00                 |                       |
| 2,400.0             | 10.88           | 111.07      | 2,376.2             | -102.3     | 265.5      | -53.1                 | 0.00                  | 0.00                 |                       |
| 2,500.0             | 10.88           | 111.07      | 2,474.4             | -109.1     | 283.1      | -56.6                 | 0.00                  | 0.00                 |                       |
| 2,600.0             | 10.88           | 111.07      | 2,572.6             | -115.9     | 300.8      | -60.2                 | 0.00                  | 0.00                 |                       |
| 2,700.0             | 10.88           | 111.07      | 2,670.8             | -122.7     | 318.4      | -63.7                 | 0.00                  | 0.00                 |                       |
| 2,800.0             | 10.88           | 111.07      | 2,769.0             | -129.4     | 336.0      | -67.2                 | 0.00                  | 0.00                 |                       |
| 2,900.0             | 10.88           | 111.07      | 2,867.2             | -136.2     | 353.6      | -70.7                 | 0.00                  | 0.00                 |                       |
| 3,000.0             | 10.88           | 111.07      | 2,965.4             | -143.0     | 371.2      | -74.3                 | 0.00                  | 0.00                 |                       |
| 3,100.0             | 10.88           | 111.07      | 3,063.6             | -149.8     | 388.8      | -77.8                 | 0.00                  | 0.00                 |                       |
| 3,200.0             | 10.88           | 111.07      | 3,161.8             | -156.6     | 406.4      | -81.3                 | 0.00                  | 0.00                 |                       |
| 3,300.0             | 10.88           | 111.07      | 3,260.0             | -163.4     | 424.0      | -84.8                 | 0.00                  | 0.00                 |                       |
| 3,400.0             | 10.88           | 111.07      | 3,358.2             | -170.2     | 441.7      | -88.4                 | 0.00                  | 0.00                 |                       |
| 3,500.0             | 10.88           | 111.07      | 3,456.4             | -176.9     | 459.3      | -91.9                 | 0.00                  | 0.00                 |                       |
| 3,600.0             | 10.88           | 111.07      | 3,554.6             | -183.7     | 476.9      | -95.4                 | 0.00                  | 0.00                 |                       |
| 3,700.0             | 10.88           | 111.07      | 3,652.8             | -190.5     | 494.5      | -98.9                 | 0.00                  | 0.00                 |                       |
| 3,800.0             | 10.88           | 111.07      | 3,751.0             | -197.3     | 512.1      | -102.4                | 0.00                  | 0.00                 |                       |
| 3,900.0             | 10.88           | 111.07      | 3,849.2             | -204.1     | 529.7      | -106.0                | 0.00                  | 0.00                 |                       |
| 4,000.0             | 10.88           | 111.07      | 3,947.4             | -210.9     | 547.3      | -109.5                | 0.00                  | 0.00                 |                       |
| 4,100.0             | 10.88           | 111.07      | 4,045.6             | -217.7     | 564.9      | -113.0                | 0.00                  | 0.00                 |                       |
| 4,200.0             | 10.88           | 111.07      | 4,143.8             | -224.4     | 582.6      | -116.5                | 0.00                  | 0.00                 |                       |
| 4,300.0             | 10.88           | 111.07      | 4,242.0             | -231.2     | 600.2      | -120.1                | 0.00                  | 0.00                 |                       |
| 4,400.0             | 10.88           | 111.07      | 4,340.2             | -238.0     | 617.8      | -123.6                | 0.00                  | 0.00                 |                       |
| 4,422.2             | 10.88           | 111.07      | 4,362.0             | -239.5     | 621.7      | -124.4                | 0.00                  | 0.00                 | Sussex                |
| 4,500.0             | 10.88           | 111.07      | 4,438.4             | -244.8     | 635.4      | -127.1                | 0.00                  | 0.00                 |                       |
| 4,600.0             | 10.88           | 111.07      | 4,536.6             | -251.6     | 653.0      | -130.6                | 0.00                  | 0.00                 |                       |
| 4,662.5             | 10.88           | 111.07      | 4,598.0             | -255.8     | 664.0      | -132.8                | 0.00                  | 0.00                 | Sussex Marker         |



## Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** DJ Wattenberg  
**Site:** S20-T2N-R64W (Dale)  
**Well:** Dale 4H-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4H-20H-O264  
**TVD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations       |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------------|
| 4,700.0             | 10.88           | 111.07      | 4,634.8             | -258.4     | 670.6      | -134.2                | 0.00                  | 0.00                 |                             |
| 4,800.0             | 10.88           | 111.07      | 4,733.0             | -265.2     | 688.2      | -137.7                | 0.00                  | 0.00                 |                             |
| 4,878.4             | 10.88           | 111.07      | 4,810.0             | -270.5     | 702.0      | -140.4                | 0.00                  | 0.00                 | Shannon                     |
| 4,900.0             | 10.88           | 111.07      | 4,831.2             | -271.9     | 705.8      | -141.2                | 0.00                  | 0.00                 |                             |
| 4,988.9             | 10.88           | 111.07      | 4,918.6             | -278.0     | 721.5      | -144.3                | 0.00                  | 0.00                 | Start 1° Drop               |
| 5,000.0             | 10.77           | 111.07      | 4,929.5             | -278.7     | 723.4      | -144.7                | 1.00                  | -1.00                |                             |
| 5,100.0             | 9.77            | 111.07      | 5,027.9             | -285.1     | 740.1      | -148.1                | 1.00                  | -1.00                |                             |
| 5,200.0             | 8.77            | 111.07      | 5,126.5             | -290.9     | 755.1      | -151.1                | 1.00                  | -1.00                |                             |
| 5,300.0             | 7.77            | 111.07      | 5,225.5             | -296.1     | 768.5      | -153.7                | 1.00                  | -1.00                |                             |
| 5,400.0             | 6.77            | 111.07      | 5,324.7             | -300.6     | 780.3      | -156.1                | 1.00                  | -1.00                |                             |
| 5,500.0             | 5.77            | 111.07      | 5,424.1             | -304.6     | 790.5      | -158.1                | 1.00                  | -1.00                |                             |
| 5,600.0             | 4.77            | 111.07      | 5,523.7             | -307.9     | 799.1      | -159.9                | 1.00                  | -1.00                |                             |
| 5,700.0             | 3.77            | 111.07      | 5,623.4             | -310.5     | 806.0      | -161.2                | 1.00                  | -1.00                |                             |
| 5,714.6             | 3.62            | 111.07      | 5,638.0             | -310.9     | 806.9      | -161.4                | 1.00                  | -1.00                | Teepee Buttes (*if present) |
| 5,800.0             | 2.77            | 111.07      | 5,723.2             | -312.6     | 811.4      | -162.3                | 1.00                  | -1.00                |                             |
| 5,900.0             | 1.77            | 111.07      | 5,823.2             | -314.0     | 815.1      | -163.0                | 1.00                  | -1.00                |                             |
| 6,000.0             | 0.77            | 111.07      | 5,923.1             | -314.8     | 817.1      | -163.5                | 1.00                  | -1.00                |                             |
| 6,076.9             | 0.00            | 0.00        | 6,000.0             | -315.0     | 817.6      | -163.6                | 1.00                  | -1.00                | EOD; Vertical               |
| 6,100.0             | 0.00            | 0.00        | 6,023.1             | -315.0     | 817.6      | -163.6                | 0.00                  | 0.00                 |                             |
| 6,200.0             | 0.00            | 0.00        | 6,123.1             | -315.0     | 817.6      | -163.6                | 0.00                  | 0.00                 |                             |
| 6,300.0             | 0.00            | 0.00        | 6,223.1             | -315.0     | 817.6      | -163.6                | 0.00                  | 0.00                 |                             |
| 6,400.0             | 0.00            | 0.00        | 6,323.1             | -315.0     | 817.6      | -163.6                | 0.00                  | 0.00                 |                             |
| 6,500.0             | 0.00            | 0.00        | 6,423.1             | -315.0     | 817.6      | -163.6                | 0.00                  | 0.00                 |                             |
| 6,600.0             | 0.00            | 0.00        | 6,523.1             | -315.0     | 817.6      | -163.6                | 0.00                  | 0.00                 |                             |
| 6,665.9             | 0.00            | 0.00        | 6,589.0             | -315.0     | 817.6      | -163.6                | 0.00                  | 0.00                 | Start 10° Build             |
| 6,700.0             | 3.41            | 0.00        | 6,623.1             | -314.0     | 817.6      | -162.6                | 10.00                 | 10.00                |                             |
| 6,750.0             | 8.41            | 0.00        | 6,672.8             | -308.8     | 817.6      | -157.5                | 10.00                 | 10.00                |                             |
| 6,800.0             | 13.41           | 0.00        | 6,721.9             | -299.4     | 817.6      | -148.2                | 10.00                 | 10.00                |                             |
| 6,850.0             | 18.41           | 0.00        | 6,770.0             | -285.7     | 817.6      | -134.7                | 10.00                 | 10.00                |                             |
| 6,889.5             | 22.36           | 0.00        | 6,807.0             | -271.9     | 817.6      | -121.2                | 10.00                 | 10.00                | Sharon Springs              |
| 6,900.0             | 23.41           | 0.00        | 6,816.7             | -267.8     | 817.6      | -117.2                | 10.00                 | 10.00                |                             |
| 6,938.0             | 27.21           | 0.00        | 6,851.0             | -251.6     | 817.6      | -101.2                | 10.00                 | 10.00                | Niobrara                    |
| 6,950.0             | 28.41           | 0.00        | 6,861.6             | -246.0     | 817.6      | -95.7                 | 10.00                 | 10.00                |                             |
| 7,000.0             | 33.41           | 0.00        | 6,904.5             | -220.3     | 817.6      | -70.4                 | 10.00                 | 10.00                |                             |
| 7,016.3             | 35.04           | 0.00        | 6,918.0             | -211.2     | 817.6      | -61.4                 | 10.00                 | 10.00                | B Chalk                     |
| 7,050.0             | 38.41           | 0.00        | 6,945.0             | -191.0     | 817.6      | -41.6                 | 10.00                 | 10.00                |                             |
| 7,051.3             | 38.54           | 0.00        | 6,946.0             | -190.2     | 817.6      | -40.8                 | 10.00                 | 10.00                | B Marl                      |
| 7,100.0             | 43.41           | 0.00        | 6,982.8             | -158.3     | 817.6      | -9.4                  | 10.00                 | 10.00                |                             |
| 7,112.8             | 44.69           | 0.00        | 6,992.0             | -149.4     | 817.6      | -0.6                  | 10.00                 | 10.00                | C Chalk                     |
| 7,150.0             | 48.41           | 0.00        | 7,017.6             | -122.4     | 817.6      | 25.9                  | 10.00                 | 10.00                |                             |
| 7,162.9             | 49.70           | 0.00        | 7,026.0             | -112.6     | 817.6      | 35.5                  | 10.00                 | 10.00                | C Marl                      |
| 7,200.0             | 53.41           | 0.00        | 7,049.1             | -83.6      | 817.6      | 64.1                  | 10.00                 | 10.00                |                             |
| 7,250.0             | 58.41           | 0.00        | 7,077.1             | -42.2      | 817.6      | 104.8                 | 10.00                 | 10.00                |                             |
| 7,300.0             | 63.41           | 0.00        | 7,101.4             | 1.5        | 817.6      | 147.8                 | 10.00                 | 10.00                |                             |
| 7,350.0             | 68.41           | 0.00        | 7,121.8             | 47.1       | 817.6      | 192.7                 | 10.00                 | 10.00                |                             |
| 7,367.5             | 70.16           | 0.00        | 7,128.0             | 63.5       | 817.6      | 208.9                 | 10.00                 | 10.00                | Ft. Hayes                   |
| 7,400.0             | 73.41           | 0.00        | 7,138.1             | 94.3       | 817.6      | 239.2                 | 10.00                 | 10.00                |                             |
| 7,450.0             | 78.41           | 0.00        | 7,150.3             | 142.8      | 817.6      | 286.9                 | 10.00                 | 10.00                |                             |
| 7,458.7             | 79.28           | 0.00        | 7,152.0             | 151.4      | 817.6      | 295.3                 | 10.00                 | 10.00                | Codell                      |
| 7,500.0             | 83.41           | 0.00        | 7,158.2             | 192.2      | 817.6      | 335.4                 | 10.00                 | 10.00                |                             |
| 7,550.0             | 88.41           | 0.00        | 7,161.8             | 242.0      | 817.6      | 384.5                 | 10.00                 | 10.00                |                             |
| 7,565.9             | 90.00           | 0.00        | 7,162.0             | 258.0      | 817.6      | 400.1                 | 10.00                 | 10.00                | LP @ 7162' TVD; 90°         |



## Planning Report

|                  |                             |                                     |                                      |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc  | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Project:</b>  | DJ Wattenberg               | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site:</b>     | S20-T2N-R64W (Dale)         | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Dale 4H-20H-O264            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | HZ                          |                                     |                                      |
| <b>Design:</b>   | Plan #1                     |                                     |                                      |

### Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 7,600.0             | 90.00           | 0.00        | 7,162.0             | 292.0      | 817.6      | 433.7                 | 0.00                  | 0.00                 |                       |
| 7,700.0             | 90.00           | 0.00        | 7,162.0             | 392.0      | 817.6      | 532.1                 | 0.00                  | 0.00                 |                       |
| 7,800.0             | 90.00           | 0.00        | 7,162.0             | 492.0      | 817.6      | 630.4                 | 0.00                  | 0.00                 |                       |
| 7,900.0             | 90.00           | 0.00        | 7,162.0             | 592.0      | 817.6      | 728.8                 | 0.00                  | 0.00                 |                       |
| 8,000.0             | 90.00           | 0.00        | 7,162.0             | 692.0      | 817.6      | 827.2                 | 0.00                  | 0.00                 |                       |
| 8,100.0             | 90.00           | 0.00        | 7,162.0             | 792.0      | 817.6      | 925.6                 | 0.00                  | 0.00                 |                       |
| 8,200.0             | 90.00           | 0.00        | 7,162.0             | 892.0      | 817.6      | 1,024.0               | 0.00                  | 0.00                 |                       |
| 8,300.0             | 90.00           | 0.00        | 7,162.0             | 992.0      | 817.6      | 1,122.4               | 0.00                  | 0.00                 |                       |
| 8,400.0             | 90.00           | 0.00        | 7,162.0             | 1,092.0    | 817.6      | 1,220.8               | 0.00                  | 0.00                 |                       |
| 8,500.0             | 90.00           | 0.00        | 7,162.0             | 1,192.0    | 817.6      | 1,319.1               | 0.00                  | 0.00                 |                       |
| 8,600.0             | 90.00           | 0.00        | 7,162.0             | 1,292.0    | 817.6      | 1,417.5               | 0.00                  | 0.00                 |                       |
| 8,700.0             | 90.00           | 0.00        | 7,162.0             | 1,392.0    | 817.6      | 1,515.9               | 0.00                  | 0.00                 |                       |
| 8,800.0             | 90.00           | 0.00        | 7,162.0             | 1,492.0    | 817.6      | 1,614.3               | 0.00                  | 0.00                 |                       |
| 8,900.0             | 90.00           | 0.00        | 7,162.0             | 1,592.0    | 817.6      | 1,712.7               | 0.00                  | 0.00                 |                       |
| 9,000.0             | 90.00           | 0.00        | 7,162.0             | 1,692.0    | 817.6      | 1,811.1               | 0.00                  | 0.00                 |                       |
| 9,100.0             | 90.00           | 0.00        | 7,162.0             | 1,792.0    | 817.6      | 1,909.5               | 0.00                  | 0.00                 |                       |
| 9,200.0             | 90.00           | 0.00        | 7,162.0             | 1,892.0    | 817.6      | 2,007.8               | 0.00                  | 0.00                 |                       |
| 9,300.0             | 90.00           | 0.00        | 7,162.0             | 1,992.0    | 817.6      | 2,106.2               | 0.00                  | 0.00                 |                       |
| 9,400.0             | 90.00           | 0.00        | 7,162.0             | 2,092.0    | 817.6      | 2,204.6               | 0.00                  | 0.00                 |                       |
| 9,500.0             | 90.00           | 0.00        | 7,162.0             | 2,192.0    | 817.6      | 2,303.0               | 0.00                  | 0.00                 |                       |
| 9,600.0             | 90.00           | 0.00        | 7,162.0             | 2,292.0    | 817.6      | 2,401.4               | 0.00                  | 0.00                 |                       |
| 9,700.0             | 90.00           | 0.00        | 7,162.0             | 2,392.0    | 817.6      | 2,499.8               | 0.00                  | 0.00                 |                       |
| 9,800.0             | 90.00           | 0.00        | 7,162.0             | 2,492.0    | 817.6      | 2,598.1               | 0.00                  | 0.00                 |                       |
| 9,900.0             | 90.00           | 0.00        | 7,162.0             | 2,592.0    | 817.6      | 2,696.5               | 0.00                  | 0.00                 |                       |
| 10,000.0            | 90.00           | 0.00        | 7,162.0             | 2,692.0    | 817.6      | 2,794.9               | 0.00                  | 0.00                 |                       |
| 10,100.0            | 90.00           | 0.00        | 7,162.0             | 2,792.0    | 817.6      | 2,893.3               | 0.00                  | 0.00                 |                       |
| 10,200.0            | 90.00           | 0.00        | 7,162.0             | 2,892.0    | 817.6      | 2,991.7               | 0.00                  | 0.00                 |                       |
| 10,300.0            | 90.00           | 0.00        | 7,162.0             | 2,992.0    | 817.6      | 3,090.1               | 0.00                  | 0.00                 |                       |
| 10,400.0            | 90.00           | 0.00        | 7,162.0             | 3,092.0    | 817.6      | 3,188.5               | 0.00                  | 0.00                 |                       |
| 10,500.0            | 90.00           | 0.00        | 7,162.0             | 3,192.0    | 817.6      | 3,286.8               | 0.00                  | 0.00                 |                       |
| 10,600.0            | 90.00           | 0.00        | 7,162.0             | 3,292.0    | 817.6      | 3,385.2               | 0.00                  | 0.00                 |                       |
| 10,700.0            | 90.00           | 0.00        | 7,162.0             | 3,392.0    | 817.6      | 3,483.6               | 0.00                  | 0.00                 |                       |
| 10,800.0            | 90.00           | 0.00        | 7,162.0             | 3,492.0    | 817.6      | 3,582.0               | 0.00                  | 0.00                 |                       |
| 10,900.0            | 90.00           | 0.00        | 7,162.0             | 3,592.0    | 817.6      | 3,680.4               | 0.00                  | 0.00                 |                       |
| 11,000.0            | 90.00           | 0.00        | 7,162.0             | 3,692.0    | 817.6      | 3,778.8               | 0.00                  | 0.00                 |                       |
| 11,100.0            | 90.00           | 0.00        | 7,162.0             | 3,792.0    | 817.6      | 3,877.1               | 0.00                  | 0.00                 |                       |
| 11,200.0            | 90.00           | 0.00        | 7,162.0             | 3,892.0    | 817.6      | 3,975.5               | 0.00                  | 0.00                 |                       |
| 11,300.0            | 90.00           | 0.00        | 7,162.0             | 3,992.0    | 817.6      | 4,073.9               | 0.00                  | 0.00                 |                       |
| 11,400.0            | 90.00           | 0.00        | 7,162.0             | 4,092.0    | 817.6      | 4,172.3               | 0.00                  | 0.00                 |                       |
| 11,500.0            | 90.00           | 0.00        | 7,162.0             | 4,192.0    | 817.6      | 4,270.7               | 0.00                  | 0.00                 |                       |
| 11,600.0            | 90.00           | 0.00        | 7,162.0             | 4,292.0    | 817.6      | 4,369.1               | 0.00                  | 0.00                 |                       |
| 11,700.0            | 90.00           | 0.00        | 7,162.0             | 4,392.0    | 817.6      | 4,467.5               | 0.00                  | 0.00                 |                       |
| 11,801.7            | 90.00           | 0.00        | 7,162.0             | 4,493.8    | 817.6      | 4,567.6               | 0.00                  | 0.00                 | TD at 11801.7         |



## Planning Report

|                  |                             |                                     |                                      |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc  | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Project:</b>  | DJ Wattenberg               | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site:</b>     | S20-T2N-R64W (Dale)         | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Dale 4H-20H-O264            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | HZ                          |                                     |                                      |
| <b>Design:</b>   | Plan #1                     |                                     |                                      |

| Targets                   |           |          |         |         |       |              |              |           |             |
|---------------------------|-----------|----------|---------|---------|-------|--------------|--------------|-----------|-------------|
| Target Name               |           |          |         |         |       |              |              |           |             |
| - hit/miss target         | Dip Angle | Dip Dir. | TVD     | +N/-S   | +E/-W | Northing     | Easting      | Latitude  | Longitude   |
| - Shape                   | (°)       | (°)      | (ft)    | (ft)    | (ft)  | (ft)         | (ft)         |           |             |
| Dale 4H-20H-O264 PBH      | 0.00      | 0.00     | 7,162.0 | 4,493.8 | 817.6 | 1,291,563.82 | 3,260,353.07 | 40.129977 | -104.568909 |
| - plan hits target center |           |          |         |         |       |              |              |           |             |
| - Point                   |           |          |         |         |       |              |              |           |             |

| Formations     |                |                             |           |     |               |  |
|----------------|----------------|-----------------------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name                        | Lithology | Dip | Dip Direction |  |
| (ft)           | (ft)           |                             |           | (°) | (°)           |  |
| 964.2          | 963.0          | Fox Hills - BASE            |           |     |               |  |
| 4,422.2        | 4,362.0        | Sussex                      |           |     |               |  |
| 4,662.5        | 4,598.0        | Sussex Marker               |           |     |               |  |
| 4,878.4        | 4,810.0        | Shannon                     |           |     |               |  |
| 5,714.6        | 5,638.0        | Teepee Buttes (*if present) |           |     |               |  |
| 6,889.5        | 6,807.0        | Sharon Springs              |           |     |               |  |
| 6,938.0        | 6,851.0        | Niobrara                    |           |     |               |  |
| 7,016.3        | 6,918.0        | B Chalk                     |           |     |               |  |
| 7,051.3        | 6,946.0        | B Marl                      |           |     |               |  |
| 7,112.8        | 6,992.0        | C Chalk                     |           |     |               |  |
| 7,162.9        | 7,026.0        | C Marl                      |           |     |               |  |
| 7,367.5        | 7,128.0        | Ft. Hayes                   |           |     |               |  |
| 7,458.7        | 7,152.0        | Codell                      |           |     |               |  |

| Plan Annotations |                |                   |            |                     |
|------------------|----------------|-------------------|------------|---------------------|
| Measured Depth   | Vertical Depth | Local Coordinates |            | Comment             |
| (ft)             | (ft)           | +N/-S (ft)        | +E/-W (ft) |                     |
| 350.0            | 350.0          | 0.0               | 0.0        | KOP @ 350' MD       |
| 1,437.9          | 1,431.4        | -37.0             | 96.1       | EOB; 10.88°         |
| 4,988.9          | 4,918.6        | -278.0            | 721.5      | Start 1° Drop       |
| 6,076.9          | 6,000.0        | -315.0            | 817.6      | EOD; Vertical       |
| 6,665.9          | 6,589.0        | -315.0            | 817.6      | Start 10° Build     |
| 7,565.9          | 7,162.0        | 258.0             | 817.6      | LP @ 7162' TVD; 90° |
| 11,801.7         | 7,162.0        | 4,493.8           | 817.6      | TD at 11801.7       |



## **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**S20-T2N-R64W (Dale)**

**Dale 4H-20H-O264**

**HZ**

**Plan #1**

## **Anticollision Report**

**02 April, 2014**



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

|                                     |   |                       |                     |
|-------------------------------------|---|-----------------------|---------------------|
| <b>Reference</b>                    | Plan #1   |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | Stations  | <b>Error Model:</b>   | Systematic Ellipse  |
| <b>Depth Range:</b>                 | Unlimited   | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 1,550.0ft                         | <b>Error Surface:</b> | Elliptical Conic    |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma  |                       |                     |

|                            |                |                          |                  |                    |  |
|----------------------------|----------------|--------------------------|------------------|--------------------|--|
| <b>Survey Tool Program</b> |                | <b>Date</b>              | 4/2/2014         |                    |  |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| 0.0                        | 11,801.7       | Plan #1 (HZ)             | Geolink MWD      | Geolink MWD        |  |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

## Summary

| Site Name   | Reference<br>Measured<br>Depth<br>(ft) | Offset<br>Measured<br>Depth<br>(ft) | Distance<br>Between<br>Centres<br>(ft) | Distance<br>Between<br>Ellipses<br>(ft) | Separation<br>Factor | Warning      |
|---|--|-------------------------------------|--|---|----------------------|--------------|
| S20-T2N-R64W (Dale)                               |  |                                     |  |   |                      |              |
| DALE 1 (EXISTING) - EXISTING - NOBLE WELL         |  |                                     |  |   |                      | Out of range |
| Dale 3A-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3B-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3C-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3D-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3E-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3F-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3G-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3H-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3I-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3J-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3K-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 3L-20H-N264 - HZ - Plan #1                   |  |                                     |  |   |                      | Out of range |
| Dale 4A-20H-O264 - HZ - Plan #1                   | 166.3                                  | 167.3                               | 52.6                                   | 52.1                                    | 110.084              | CC           |
| Dale 4A-20H-O264 - HZ - Plan #1                   | 200.0                                  | 201.0                               | 52.6                                   | 52.0                                    | 88.345               | ES           |
| Dale 4A-20H-O264 - HZ - Plan #1                   | 600.0                                  | 591.2                               | 83.6                                   | 81.6                                    | 42.038               | SF           |
| Dale 4B-20H-O264 - HZ - Plan #1                   | 243.1                                  | 244.1                               | 45.0                                   | 44.3                                    | 60.385               | CC, ES       |
| Dale 4B-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,752.2                            | 1,450.1                                | 1,287.3                                 | 8.905                | SF           |
| Dale 4C-20H-O264 - HZ - Plan #1                   | 300.0                                  | 300.0                               | 37.5                                   | 36.5                                    | 39.765               | CC, ES       |
| Dale 4C-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,508.6                            | 1,247.0                                | 1,087.0                                 | 7.793                | SF           |
| Dale 4D-20H-O264 - HZ - Plan #1                   | 350.0                                  | 350.0                               | 29.9                                   | 28.8                                    | 26.792               | CC, ES       |
| Dale 4D-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,590.6                            | 910.9                                  | 750.0                                   | 5.659                | SF           |
| Dale 4E-20H-O264 - HZ - Plan #1                   | 350.0                                  | 350.0                               | 22.7                                   | 21.5                                    | 20.280               | CC, ES       |
| Dale 4E-20H-O264 - HZ - Plan #1                   | 11,500.0                               | 11,369.9                            | 598.1                                  | 446.8                                   | 3.953                | SF           |
| Dale 4F-20H-O264 - HZ - Plan #1                   | 350.0                                  | 350.0                               | 15.1                                   | 14.0                                    | 13.520               | CC, ES       |
| Dale 4F-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,512.7                            | 507.4                                  | 362.1                                   | 3.492                | SF           |
| Dale 4G-20H-O264 - HZ - Plan #1                   | 350.0                                  | 350.0                               | 7.6                                    | 6.4                                     | 6.760                | CC, ES       |
| Dale 4G-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,628.2                            | 265.6                                  | 126.4                                   | 1.908                | SF           |
| Dale 4I-20H-O264 - HZ - Plan #1                   | 300.0                                  | 300.0                               | 7.6                                    | 6.6                                     | 8.012                | CC, ES       |
| Dale 4I-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,604.8                            | 324.5                                  | 208.3                                   | 2.794                | SF           |
| Dale 4J-20H-O264 - HZ - Plan #1                   | 234.7                                  | 233.7                               | 14.8                                   | 14.1                                    | 20.804               | CC, ES       |
| Dale 4J-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,738.9                            | 471.5                                  | 315.5                                   | 3.022                | SF           |
| Dale 4K-20H-O264 - HZ - Plan #1                   | 200.0                                  | 199.0                               | 22.4                                   | 21.8                                    | 37.820               | CC, ES       |
| Dale 4K-20H-O264 - HZ - Plan #1                   | 11,801.7                               | 11,935.2                            | 675.0                                  | 512.0                                   | 4.140                | SF           |
| DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WE | 8,609.9                                | 7,099.0                             | 722.2                                  | 682.3                                   | 18.075               | CC, ES       |
| DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WE | 8,800.0                                | 7,099.0                             | 746.8                                  | 703.9                                   | 17.384               | SF           |
| FOY 1 (EXISTING) - EXISTING - NOBLE WELL          |  |                                     |  |   |                      | Out of range |
| FOY 'Y' 20-6 (EXISTING) - EXISTING - NOBLE WELL   |  |                                     |  |   |                      | Out of range |
| KELLER 20-2 (EXISTING) - EXISTING - NOBLE WELL    | 11,220.0                               | 7,068.0                             | 732.9                                  | 649.1                                   | 8.750                | CC, ES       |
| KELLER 20-2 (EXISTING) - EXISTING - NOBLE WELL    | 11,300.0                               | 7,068.0                             | 737.2                                  | 652.1                                   | 8.659                | SF           |
| RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL      | 8,982.9                                | 7,093.0                             | 1,077.7                                | 1,031.8                                 | 23.479               | CC           |
| RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL      | 9,000.0                                | 7,093.0                             | 1,077.8                                | 1,031.6                                 | 23.341               | ES           |
| RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL      | 9,400.0                                | 7,093.0                             | 1,155.6                                | 1,102.8                                 | 21.897               | SF           |
| STARKE 'Y' 20-03 (EXISTING) - EXISTING - NOBLE WE |  |                                     |  |   |                      | Out of range |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4A-20H-O264 - 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                          |            |                      |                       |                        | 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) | Total Uncertainty Axis |                   |                    |        |
| 0.0   | 0.0                 | 1.0                 | 1.0                 | 0.0             | 0.0         | -89.64                | 0.3                               | -52.6      | 52.6                 |                       |                        |                   |                    |        |
| 100.0   | 100.0               | 101.0               | 101.0               | 0.1             | 0.1         | -89.64                | 0.3                               | -52.6      | 52.6                 | 52.3                  | 0.25                   | 213.657           |                    |        |
| 166.3   | 166.3               | 167.3               | 167.3               | 0.2             | 0.2         | -89.64                | 0.3                               | -52.6      | 52.6                 | 52.1                  | 0.48                   | 110.084 CC        |                    |        |
| 200.0   | 200.0               | 201.0               | 201.0               | 0.3             | 0.3         | -89.64                | 0.3                               | -52.6      | 52.6                 | 52.0                  | 0.60                   | 88.345 ES         |                    |        |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -90.33                | -0.3                              | -54.2      | 54.2                 | 53.3                  | 0.95                   | 57.284            |                    |        |
| 350.0   | 350.0               | 348.3               | 348.3               | 0.6             | 0.6         | -91.09                | -1.1                              | -56.2      | 56.2                 | 55.1                  | 1.13                   | 49.847            |                    |        |
| 400.0   | 400.0               | 397.3               | 397.2               | 0.6             | 0.7         | 156.91                | -2.1                              | -58.9      | 59.3                 | 58.0                  | 1.29                   | 45.959            |                    |        |
| 500.0   | 500.0               | 494.7               | 494.2               | 0.8             | 0.9         | 155.11                | -5.2                              | -66.7      | 69.0                 | 67.4                  | 1.64                   | 42.115            |                    |        |
| 600.0   | 599.9               | 591.2               | 590.0               | 1.0             | 1.1         | 153.61                | -9.4                              | -77.4      | 83.6                 | 81.6                  | 1.99                   | 42.038 SF         |                    |        |
| 700.0   | 699.8               | 687.3               | 684.9               | 1.2             | 1.4         | 152.50                | -14.7                             | -91.0      | 102.7                | 100.4                 | 2.34                   | 43.940            |                    |        |
| 800.0   | 799.5               | 784.9               | 781.3               | 1.4             | 1.7         | 151.97                | -20.4                             | -105.5     | 124.3                | 121.6                 | 2.69                   | 46.123            |                    |        |
| 900.0   | 899.2               | 882.2               | 877.4               | 1.6             | 2.0         | 151.88                | -26.0                             | -120.0     | 147.3                | 144.2                 | 3.05                   | 48.240            |                    |        |
| 1,000.0   | 998.6               | 979.1               | 973.1               | 1.8             | 2.4         | 152.06                | -31.7                             | -134.4     | 171.8                | 168.4                 | 3.42                   | 50.291            |                    |        |
| 1,100.0   | 1,097.9             | 1,075.7             | 1,068.4             | 2.1             | 2.7         | 152.41                | -37.3                             | -148.8     | 197.9                | 194.1                 | 3.78                   | 52.287            |                    |        |
| 1,200.0   | 1,196.9             | 1,171.8             | 1,163.2             | 2.4             | 3.0         | 152.85                | -42.9                             | -163.1     | 225.4                | 221.2                 | 4.16                   | 54.237            |                    |        |
| 1,300.0   | 1,295.7             | 1,267.5             | 1,257.7             | 2.7             | 3.3         | 153.34                | -48.5                             | -177.3     | 254.4                | 249.9                 | 4.53                   | 56.150            |                    |        |
| 1,400.0   | 1,394.1             | 1,362.6             | 1,351.6             | 3.0             | 3.6         | 153.86                | -54.0                             | -191.5     | 285.0                | 280.1                 | 4.91                   | 58.033            |                    |        |
| 1,437.9   | 1,431.4             | 1,398.6             | 1,387.1             | 3.1             | 3.7         | 154.06                | -56.1                             | -196.8     | 297.0                | 292.0                 | 5.06                   | 58.747            |                    |        |
| 1,500.0   | 1,492.4             | 1,457.4             | 1,445.1             | 3.4             | 3.9         | 154.46                | -59.5                             | -205.6     | 316.8                | 311.5                 | 5.30                   | 59.785            |                    |        |
| 1,600.0   | 1,590.6             | 1,552.1             | 1,538.6             | 3.7             | 4.2         | 155.00                | -65.1                             | -219.7     | 348.8                | 343.1                 | 5.69                   | 61.268            |                    |        |
| 1,700.0   | 1,688.8             | 1,646.8             | 1,632.1             | 4.1             | 4.5         | 155.45                | -70.6                             | -233.8     | 380.7                | 374.6                 | 6.09                   | 62.555            |                    |        |
| 1,800.0   | 1,787.0             | 1,741.5             | 1,725.6             | 4.4             | 4.9         | 155.83                | -76.1                             | -247.9     | 412.7                | 406.2                 | 6.48                   | 63.684            |                    |        |
| 1,900.0   | 1,885.2             | 1,836.2             | 1,819.1             | 4.8             | 5.2         | 156.15                | -81.6                             | -262.0     | 444.7                | 437.8                 | 6.88                   | 64.682            |                    |        |
| 2,000.0   | 1,983.4             | 1,930.9             | 1,912.6             | 5.2             | 5.5         | 156.44                | -87.1                             | -276.1     | 476.7                | 469.5                 | 7.27                   | 65.570            |                    |        |
| 2,100.0   | 2,081.6             | 2,025.7             | 2,006.1             | 5.5             | 5.8         | 156.68                | -92.6                             | -290.2     | 508.7                | 501.1                 | 7.67                   | 66.365            |                    |        |
| 2,200.0   | 2,179.8             | 2,120.4             | 2,099.6             | 5.9             | 6.1         | 156.90                | -98.2                             | -304.2     | 540.8                | 532.7                 | 8.06                   | 67.082            |                    |        |
| 2,300.0   | 2,278.0             | 2,215.1             | 2,193.1             | 6.3             | 6.4         | 157.09                | -103.7                            | -318.3     | 572.8                | 564.3                 | 8.46                   | 67.731            |                    |        |
| 2,400.0   | 2,376.2             | 2,309.8             | 2,286.6             | 6.6             | 6.7         | 157.27                | -109.2                            | -332.4     | 604.8                | 596.0                 | 8.85                   | 68.321            |                    |        |
| 2,500.0   | 2,474.4             | 2,404.5             | 2,380.1             | 7.0             | 7.0         | 157.42                | -114.7                            | -346.5     | 636.9                | 627.6                 | 9.25                   | 68.861            |                    |        |
| 2,600.0   | 2,572.6             | 2,499.2             | 2,473.6             | 7.4             | 7.4         | 157.56                | -120.2                            | -360.6     | 668.9                | 659.3                 | 9.64                   | 69.356            |                    |        |
| 2,700.0   | 2,670.8             | 2,593.9             | 2,567.1             | 7.7             | 7.7         | 157.69                | -125.7                            | -374.7     | 701.0                | 690.9                 | 10.04                  | 69.811            |                    |        |
| 2,800.0   | 2,769.0             | 2,688.7             | 2,660.6             | 8.1             | 8.0         | 157.81                | -131.2                            | -388.8     | 733.0                | 722.6                 | 10.44                  | 70.232            |                    |        |
| 2,900.0   | 2,867.2             | 2,783.4             | 2,754.1             | 8.5             | 8.3         | 157.91                | -136.8                            | -402.9     | 765.1                | 754.2                 | 10.83                  | 70.622            |                    |        |
| 3,000.0   | 2,965.4             | 2,878.1             | 2,847.6             | 8.9             | 8.6         | 158.01                | -142.3                            | -417.0     | 797.1                | 785.9                 | 11.23                  | 70.984            |                    |        |
| 3,100.0   | 3,063.6             | 2,972.8             | 2,941.1             | 9.2             | 8.9         | 158.10                | -147.8                            | -431.1     | 829.2                | 817.6                 | 11.63                  | 71.321            |                    |        |
| 3,200.0   | 3,161.8             | 3,067.5             | 3,034.6             | 9.6             | 9.2         | 158.19                | -153.3                            | -445.2     | 861.3                | 849.2                 | 12.02                  | 71.636            |                    |        |
| 3,300.0   | 3,260.0             | 3,162.2             | 3,128.1             | 10.0            | 9.6         | 158.27                | -158.8                            | -459.3     | 893.3                | 880.9                 | 12.42                  | 71.931            |                    |        |
| 3,400.0   | 3,358.2             | 3,256.9             | 3,221.6             | 10.4            | 9.9         | 158.34                | -164.3                            | -473.4     | 925.4                | 912.6                 | 12.82                  | 72.207            |                    |        |
| 3,500.0   | 3,456.4             | 3,351.7             | 3,315.1             | 10.7            | 10.2        | 158.41                | -169.9                            | -487.5     | 957.4                | 944.2                 | 13.21                  | 72.467            |                    |        |
| 3,600.0   | 3,554.6             | 3,446.4             | 3,408.6             | 11.1            | 10.5        | 158.47                | -175.4                            | -501.6     | 989.5                | 975.9                 | 13.61                  | 72.711            |                    |        |
| 3,700.0   | 3,652.8             | 3,541.1             | 3,502.1             | 11.5            | 10.8        | 158.53                | -180.9                            | -515.7     | 1,021.6              | 1,007.6               | 14.01                  | 72.942            |                    |        |
| 3,800.0   | 3,751.0             | 3,635.8             | 3,595.6             | 11.9            | 11.1        | 158.58                | -186.4                            | -529.8     | 1,053.6              | 1,039.2               | 14.40                  | 73.160            |                    |        |
| 3,900.0   | 3,849.2             | 3,730.5             | 3,689.1             | 12.2            | 11.4        | 158.64                | -191.9                            | -543.9     | 1,085.7              | 1,070.9               | 14.80                  | 73.366            |                    |        |
| 4,000.0   | 3,947.4             | 3,825.2             | 3,782.6             | 12.6            | 11.8        | 158.69                | -197.4                            | -558.0     | 1,117.8              | 1,102.6               | 15.20                  | 73.561            |                    |        |
| 4,100.0   | 4,045.6             | 3,919.9             | 3,876.1             | 13.0            | 12.1        | 158.73                | -203.0                            | -572.1     | 1,149.8              | 1,134.3               | 15.59                  | 73.746            |                    |        |
| 4,200.0   | 4,143.8             | 4,014.7             | 3,969.6             | 13.4            | 12.4        | 158.78                | -208.5                            | -586.2     | 1,181.9              | 1,165.9               | 15.99                  | 73.922            |                    |        |
| 4,300.0   | 4,242.0             | 4,109.4             | 4,063.1             | 13.7            | 12.7        | 158.82                | -214.0                            | -600.3     | 1,214.0              | 1,197.6               | 16.39                  | 74.089            |                    |        |
| 4,400.0   | 4,340.2             | 4,204.1             | 4,156.6             | 14.1            | 13.0        | 158.86                | -219.5                            | -614.4     | 1,246.1              | 1,229.3               | 16.78                  | 74.249            |                    |        |
| 4,500.0   | 4,438.4             | 4,298.8             | 4,250.0             | 14.5            | 13.3        | 158.89                | -225.0                            | -628.5     | 1,278.1              | 1,261.0               | 17.18                  | 74.401            |                    |        |
| 4,600.0   | 4,536.6             | 4,393.5             | 4,343.5             | 14.9            | 13.6        | 158.93                | -230.5                            | -642.6     | 1,310.2              | 1,292.6               | 17.58                  | 74.546            |                    |        |
| 4,700.0   | 4,634.8             | 4,488.2             | 4,437.0             | 15.2            | 13.9        | 158.96                | -236.1                            | -656.7     | 1,342.3              | 1,324.3               | 17.97                  | 74.685            |                    |        |
| 4,800.0   | 4,733.0             | 4,582.9             | 4,530.5             | 15.6            | 14.3        | 159.00                | -241.6                            | -670.8     | 1,374.3              | 1,356.0               | 18.37                  | 74.818            |                    |        |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| <b>Offset Design</b> S20-T2N-R64W (Dale) - Dale 4A-20H-O264 - HZ - Plan #1 |                        |                        |                        |                   |                |                          |   |               |                         |                          |                           | <b>Offset Site Error:</b> | 0.0 ft  |
|--|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|---------------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                        |                        |                        |                   |                |                          |   |               |                         |                          |                           | <b>Offset Well Error:</b> | 0.0 ft  |
| Reference  |                        | Offset                 |                        | Semi Major Axis   |                |                          | Distance                                |               |                         |                          |                           |                           |         |
| Measured Depth<br>(ft)   | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Total Uncertainty<br>Axis | Separation Factor         | Warning |
| 4,900.0  | 4,831.2                | 4,677.7                | 4,624.0                | 16.0              | 14.6           | 159.03                   | -247.1                                  | -684.9        | 1,406.4                 | 1,387.7                  | 18.77                     | 74.945                    |         |
| 4,988.9  | 4,918.6                | 4,761.9                | 4,707.2                | 16.3              | 14.9           | 159.05                   | -252.0                                  | -697.4        | 1,434.9                 | 1,415.8                  | 19.12                     | 75.053                    |         |
| 5,000.0  | 4,929.5                | 4,772.4                | 4,717.5                | 16.4              | 14.9           | 159.07                   | -252.6                                  | -699.0        | 1,438.5                 | 1,419.3                  | 19.17                     | 75.050                    |         |
| 5,100.0  | 5,027.9                | 4,867.4                | 4,811.3                | 16.7              | 15.2           | 159.20                   | -258.1                                  | -713.1        | 1,469.6                 | 1,450.0                  | 19.59                     | 75.002                    |         |
| 5,200.0  | 5,126.5                | 4,962.9                | 4,905.6                | 17.0              | 15.5           | 159.30                   | -263.7                                  | -727.3        | 1,499.2                 | 1,479.2                  | 20.02                     | 74.902                    |         |
| 5,300.0  | 5,225.5                | 5,058.9                | 5,000.4                | 17.3              | 15.8           | 159.36                   | -269.3                                  | -741.6        | 1,527.2                 | 1,506.8                  | 20.43                     | 74.753                    |         |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4B-20H-O264 - 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<br>Uncertainty<br>Axis | Separation<br>Factor | Warning            |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                              |                      |                    |        |
| 0.0   | 0.0                       | 1.0                       | 1.0                       | 0.0               | 0.0            | -89.57                      | 0.3                                     | -45.0         | 45.0                       |                             |                              |                      |                    |        |
| 100.0   | 100.0                     | 101.0                     | 101.0                     | 0.1               | 0.1            | -89.57                      | 0.3                                     | -45.0         | 45.0                       | 44.8                        | 0.25                         | 182.974              |                    |        |
| 200.0   | 200.0                     | 201.0                     | 201.0                     | 0.3               | 0.3            | -89.57                      | 0.3                                     | -45.0         | 45.0                       | 44.4                        | 0.60                         | 75.658               |                    |        |
| 243.1   | 243.1                     | 244.1                     | 244.1                     | 0.4               | 0.4            | -89.57                      | 0.3                                     | -45.0         | 45.0                       | 44.3                        | 0.75                         | 60.385 CC, ES        |                    |        |
| 300.0   | 300.0                     | 300.0                     | 300.0                     | 0.5               | 0.5            | -89.83                      | 0.1                                     | -45.4         | 45.4                       | 44.5                        | 0.94                         | 48.183               |                    |        |
| 350.0   | 350.0                     | 349.6                     | 349.6                     | 0.6               | 0.6            | -90.59                      | -0.5                                    | -46.6         | 46.6                       | 45.5                        | 1.12                         | 41.573               |                    |        |
| 400.0   | 400.0                     | 398.8                     | 398.7                     | 0.6               | 0.7            | 157.26                      | -1.5                                    | -48.4         | 48.7                       | 47.4                        | 1.29                         | 37.725               |                    |        |
| 500.0   | 500.0                     | 496.8                     | 496.5                     | 0.8               | 0.9            | 154.83                      | -4.7                                    | -54.4         | 56.5                       | 54.9                        | 1.64                         | 34.443               |                    |        |
| 600.0   | 599.9                     | 594.1                     | 593.2                     | 1.0               | 1.1            | 152.55                      | -9.4                                    | -63.2         | 69.1                       | 67.1                        | 1.99                         | 34.664               |                    |        |
| 700.0   | 699.8                     | 692.6                     | 691.0                     | 1.2               | 1.3            | 151.03                      | -15.1                                   | -73.8         | 85.1                       | 82.8                        | 2.35                         | 36.213               |                    |        |
| 800.0   | 799.5                     | 791.0                     | 788.7                     | 1.4               | 1.6            | 150.44                      | -20.8                                   | -84.5         | 102.7                      | 100.0                       | 2.71                         | 37.876               |                    |        |
| 900.0   | 899.2                     | 889.2                     | 886.1                     | 1.6               | 1.9            | 150.41                      | -26.5                                   | -95.1         | 121.7                      | 118.6                       | 3.07                         | 39.585               |                    |        |
| 1,000.0   | 998.6                     | 987.0                     | 983.3                     | 1.8               | 2.1            | 150.71                      | -32.2                                   | -105.7        | 142.2                      | 138.8                       | 3.44                         | 41.311               |                    |        |
| 1,100.0   | 1,097.9                   | 1,084.6                   | 1,080.1                   | 2.1               | 2.4            | 151.20                      | -37.8                                   | -116.2        | 164.3                      | 160.5                       | 3.82                         | 43.043               |                    |        |
| 1,200.0   | 1,196.9                   | 1,181.7                   | 1,176.5                   | 2.4               | 2.6            | 151.80                      | -43.4                                   | -126.7        | 187.8                      | 183.6                       | 4.19                         | 44.780               |                    |        |
| 1,300.0   | 1,295.7                   | 1,278.5                   | 1,272.5                   | 2.7               | 2.9            | 152.46                      | -49.1                                   | -137.1        | 212.9                      | 208.3                       | 4.58                         | 46.520               |                    |        |
| 1,400.0   | 1,394.1                   | 1,374.9                   | 1,368.2                   | 3.0               | 3.2            | 153.15                      | -54.6                                   | -147.6        | 239.5                      | 234.5                       | 4.96                         | 48.265               |                    |        |
| 1,437.9   | 1,431.4                   | 1,411.3                   | 1,404.3                   | 3.1               | 3.3            | 153.41                      | -56.7                                   | -151.5        | 249.9                      | 244.8                       | 5.11                         | 48.935               |                    |        |
| 1,500.0   | 1,492.4                   | 1,470.9                   | 1,463.4                   | 3.4               | 3.4            | 153.89                      | -60.2                                   | -157.9        | 267.3                      | 262.0                       | 5.35                         | 49.928               |                    |        |
| 1,600.0   | 1,590.6                   | 1,566.8                   | 1,558.6                   | 3.7               | 3.7            | 154.54                      | -65.7                                   | -168.3        | 295.3                      | 289.5                       | 5.75                         | 51.350               |                    |        |
| 1,700.0   | 1,688.8                   | 1,662.8                   | 1,653.9                   | 4.1               | 4.0            | 155.08                      | -71.3                                   | -178.7        | 323.3                      | 317.2                       | 6.15                         | 52.591               |                    |        |
| 1,800.0   | 1,787.0                   | 1,758.7                   | 1,749.1                   | 4.4               | 4.2            | 155.53                      | -76.9                                   | -189.0        | 351.4                      | 344.8                       | 6.55                         | 53.682               |                    |        |
| 1,900.0   | 1,885.2                   | 1,854.7                   | 1,844.3                   | 4.8               | 4.5            | 155.92                      | -82.4                                   | -199.4        | 379.4                      | 372.5                       | 6.94                         | 54.649               |                    |        |
| 2,000.0   | 1,983.4                   | 1,950.6                   | 1,939.6                   | 5.2               | 4.8            | 156.25                      | -88.0                                   | -209.7        | 407.5                      | 400.2                       | 7.34                         | 55.512               |                    |        |
| 2,100.0   | 2,081.6                   | 2,046.6                   | 2,034.8                   | 5.5               | 5.0            | 156.54                      | -93.5                                   | -220.1        | 435.6                      | 427.9                       | 7.74                         | 56.287               |                    |        |
| 2,200.0   | 2,179.8                   | 2,142.5                   | 2,130.0                   | 5.9               | 5.3            | 156.80                      | -99.1                                   | -230.5        | 463.7                      | 455.6                       | 8.14                         | 56.986               |                    |        |
| 2,300.0   | 2,278.0                   | 2,238.5                   | 2,225.2                   | 6.3               | 5.6            | 157.02                      | -104.7                                  | -240.8        | 491.8                      | 483.3                       | 8.54                         | 57.620               |                    |        |
| 2,400.0   | 2,376.2                   | 2,334.4                   | 2,320.5                   | 6.6               | 5.8            | 157.22                      | -110.2                                  | -251.2        | 519.9                      | 511.0                       | 8.93                         | 58.199               |                    |        |
| 2,500.0   | 2,474.4                   | 2,430.4                   | 2,415.7                   | 7.0               | 6.1            | 157.40                      | -115.8                                  | -261.6        | 548.0                      | 538.7                       | 9.33                         | 58.728               |                    |        |
| 2,600.0   | 2,572.6                   | 2,526.3                   | 2,510.9                   | 7.4               | 6.3            | 157.57                      | -121.3                                  | -271.9        | 576.1                      | 566.4                       | 9.73                         | 59.214               |                    |        |
| 2,700.0   | 2,670.8                   | 2,622.3                   | 2,606.2                   | 7.7               | 6.6            | 157.72                      | -126.9                                  | -282.3        | 604.3                      | 594.1                       | 10.13                        | 59.661               |                    |        |
| 2,800.0   | 2,769.0                   | 2,718.2                   | 2,701.4                   | 8.1               | 6.9            | 157.85                      | -132.4                                  | -292.7        | 632.4                      | 621.9                       | 10.53                        | 60.076               |                    |        |
| 2,900.0   | 2,867.2                   | 2,814.2                   | 2,796.6                   | 8.5               | 7.1            | 157.97                      | -138.0                                  | -303.0        | 660.5                      | 649.6                       | 10.93                        | 60.460               |                    |        |
| 3,000.0   | 2,965.4                   | 2,910.1                   | 2,891.9                   | 8.9               | 7.4            | 158.09                      | -143.6                                  | -313.4        | 688.7                      | 677.3                       | 11.32                        | 60.817               |                    |        |
| 3,100.0   | 3,063.6                   | 3,006.1                   | 2,987.1                   | 9.2               | 7.7            | 158.19                      | -149.1                                  | -323.8        | 716.8                      | 705.1                       | 11.72                        | 61.149               |                    |        |
| 3,200.0   | 3,161.8                   | 3,102.0                   | 3,082.3                   | 9.6               | 7.9            | 158.29                      | -154.7                                  | -334.1        | 744.9                      | 732.8                       | 12.12                        | 61.460               |                    |        |
| 3,300.0   | 3,260.0                   | 3,198.0                   | 3,177.5                   | 10.0              | 8.2            | 158.38                      | -160.2                                  | -344.5        | 773.1                      | 760.5                       | 12.52                        | 61.752               |                    |        |
| 3,400.0   | 3,358.2                   | 3,294.0                   | 3,272.8                   | 10.4              | 8.5            | 158.46                      | -165.8                                  | -354.9        | 801.2                      | 788.3                       | 12.92                        | 62.025               |                    |        |
| 3,500.0   | 3,456.4                   | 3,389.9                   | 3,368.0                   | 10.7              | 8.7            | 158.54                      | -171.3                                  | -365.2        | 829.4                      | 816.0                       | 13.32                        | 62.282               |                    |        |
| 3,600.0   | 3,554.6                   | 3,485.9                   | 3,463.2                   | 11.1              | 9.0            | 158.61                      | -176.9                                  | -375.6        | 857.5                      | 843.8                       | 13.71                        | 62.524               |                    |        |
| 3,700.0   | 3,652.8                   | 3,581.8                   | 3,558.5                   | 11.5              | 9.3            | 158.68                      | -182.5                                  | -386.0        | 885.6                      | 871.5                       | 14.11                        | 62.753               |                    |        |
| 3,800.0   | 3,751.0                   | 3,677.8                   | 3,653.7                   | 11.9              | 9.5            | 158.74                      | -188.0                                  | -396.3        | 913.8                      | 899.3                       | 14.51                        | 62.969               |                    |        |
| 3,900.0   | 3,849.2                   | 3,773.7                   | 3,748.9                   | 12.2              | 9.8            | 158.80                      | -193.6                                  | -406.7        | 941.9                      | 927.0                       | 14.91                        | 63.173               |                    |        |
| 4,000.0   | 3,947.4                   | 3,869.7                   | 3,844.1                   | 12.6              | 10.1           | 158.86                      | -199.1                                  | -417.1        | 970.1                      | 954.8                       | 15.31                        | 63.367               |                    |        |
| 4,100.0   | 4,045.6                   | 3,965.6                   | 3,939.4                   | 13.0              | 10.3           | 158.91                      | -204.7                                  | -427.4        | 998.2                      | 982.5                       | 15.71                        | 63.551               |                    |        |
| 4,200.0   | 4,143.8                   | 4,061.6                   | 4,034.6                   | 13.4              | 10.6           | 158.96                      | -210.2                                  | -437.8        | 1,026.4                    | 1,010.3                     | 16.11                        | 63.726               |                    |        |
| 4,300.0   | 4,242.0                   | 4,157.5                   | 4,129.8                   | 13.7              | 10.9           | 159.01                      | -215.8                                  | -448.1        | 1,054.5                    | 1,038.0                     | 16.50                        | 63.892               |                    |        |
| 4,400.0   | 4,340.2                   | 4,253.5                   | 4,225.1                   | 14.1              | 11.1           | 159.05                      | -221.4                                  | -458.5        | 1,082.7                    | 1,065.8                     | 16.90                        | 64.051               |                    |        |
| 4,500.0   | 4,438.4                   | 4,349.4                   | 4,320.3                   | 14.5              | 11.4           | 159.10                      | -226.9                                  | -468.9        | 1,110.8                    | 1,093.5                     | 17.30                        | 64.202               |                    |        |
| 4,600.0   | 4,536.6                   | 4,445.4                   | 4,415.5                   | 14.9              | 11.7           | 159.14                      | -232.5                                  | -479.2        | 1,139.0                    | 1,121.3                     | 17.70                        | 64.347               |                    |        |
| 4,700.0   | 4,634.8                   | 4,541.3                   | 4,510.7                   | 15.2              | 11.9           | 159.18                      | -238.0                                  | -489.6        | 1,167.1                    | 1,149.0                     | 18.10                        | 64.485               |                    |        |
| 4,800.0   | 4,733.0                   | 4,637.3                   | 4,606.0                   | 15.6              | 12.2           | 159.21                      | -243.6                                  | -500.0        | 1,195.3                    | 1,176.8                     | 18.50                        | 64.617               |                    |        |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4B-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |                           |  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|---------------------------|--|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |                           |  | Offset Well Error: 0.0 ft |  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           |  |                           |  |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning                   |  |                           |  |
| 4,900.0   | 4,831.2             | 4,733.2             | 4,701.2             | 16.0            | 12.5        | 159.25                | -249.1                            | -510.3     | 1,223.4              | 1,204.5               | 18.90                  | 64.744            |                           |  |                           |  |
| 4,988.9   | 4,918.6             | 4,818.6             | 4,785.9             | 16.3            | 12.7        | 159.28                | -254.1                            | -519.6     | 1,248.5              | 1,229.2               | 19.25                  | 64.852            |                           |  |                           |  |
| 5,000.0   | 4,929.5             | 4,829.2             | 4,796.4             | 16.4            | 12.7        | 159.29                | -254.7                            | -520.7     | 1,251.6              | 1,232.3               | 19.30                  | 64.854            |                           |  |                           |  |
| 5,100.0   | 5,027.9             | 4,925.4             | 4,891.9             | 16.7            | 13.0        | 159.41                | -260.3                            | -531.1     | 1,278.8              | 1,259.1               | 19.72                  | 64.841            |                           |  |                           |  |
| 5,200.0   | 5,126.5             | 5,022.1             | 4,987.9             | 17.0            | 13.3        | 159.49                | -265.9                            | -541.5     | 1,304.4              | 1,284.3               | 20.14                  | 64.768            |                           |  |                           |  |
| 5,300.0   | 5,225.5             | 5,119.1             | 5,084.2             | 17.3            | 13.5        | 159.53                | -271.5                            | -552.0     | 1,328.4              | 1,307.9               | 20.55                  | 64.640            |                           |  |                           |  |
| 5,400.0   | 5,324.7             | 5,216.6             | 5,180.9             | 17.6            | 13.8        | 159.55                | -277.1                            | -562.6     | 1,350.9              | 1,329.9               | 20.96                  | 64.459            |                           |  |                           |  |
| 5,500.0   | 5,424.1             | 5,314.4             | 5,277.9             | 17.8            | 14.1        | 159.53                | -282.8                            | -573.1     | 1,371.7              | 1,350.4               | 21.36                  | 64.229            |                           |  |                           |  |
| 5,600.0   | 5,523.7             | 5,412.5             | 5,375.3             | 18.1            | 14.3        | 159.49                | -288.5                            | -583.7     | 1,391.0              | 1,369.2               | 21.75                  | 63.953            |                           |  |                           |  |
| 5,700.0   | 5,623.4             | 5,510.8             | 5,472.9             | 18.2            | 14.6        | 159.41                | -294.2                            | -594.3     | 1,408.6              | 1,386.5               | 22.14                  | 63.634            |                           |  |                           |  |
| 5,800.0   | 5,723.2             | 5,609.5             | 5,570.8             | 18.4            | 14.9        | 159.32                | -299.9                            | -605.0     | 1,424.7              | 1,402.2               | 22.52                  | 63.275            |                           |  |                           |  |
| 5,900.0   | 5,823.2             | 5,724.3             | 5,684.8             | 18.6            | 15.2        | 159.16                | -306.4                            | -617.2     | 1,439.0              | 1,416.1               | 22.92                  | 62.794            |                           |  |                           |  |
| 6,000.0   | 5,923.1             | 5,903.3             | 5,863.2             | 18.7            | 15.5        | 158.98                | -313.1                            | -629.6     | 1,448.0              | 1,424.6               | 23.40                  | 61.881            |                           |  |                           |  |
| 6,076.9   | 6,000.0             | 6,041.1             | 6,001.0             | 18.7            | 15.7        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,426.4               | 23.74                  | 61.093            |                           |  |                           |  |
| 6,100.0   | 6,023.1             | 6,064.2             | 6,024.1             | 18.8            | 15.7        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,426.3               | 23.81                  | 60.909            |                           |  |                           |  |
| 6,200.0   | 6,123.1             | 6,164.2             | 6,124.1             | 18.9            | 15.9        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,426.0               | 24.12                  | 60.125            |                           |  |                           |  |
| 6,300.0   | 6,223.1             | 6,264.2             | 6,224.1             | 19.0            | 16.0        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,425.7               | 24.43                  | 59.359            |                           |  |                           |  |
| 6,400.0   | 6,323.1             | 6,364.2             | 6,324.1             | 19.1            | 16.1        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,425.4               | 24.74                  | 58.610            |                           |  |                           |  |
| 6,500.0   | 6,423.1             | 6,464.2             | 6,424.1             | 19.2            | 16.2        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,425.1               | 25.06                  | 57.877            |                           |  |                           |  |
| 6,600.0   | 6,523.1             | 6,564.2             | 6,524.1             | 19.3            | 16.3        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,424.8               | 25.37                  | 57.160            |                           |  |                           |  |
| 6,641.2   | 6,564.3             | 6,605.4             | 6,565.3             | 19.3            | 16.4        | -89.99                | -314.7                            | -632.5     | 1,450.1              | 1,424.6               | 25.50                  | 56.870            |                           |  |                           |  |
| 6,665.9   | 6,589.0             | 6,630.2             | 6,590.0             | 19.3            | 16.4        | -89.98                | -314.6                            | -632.5     | 1,450.1              | 1,424.6               | 25.57                  | 56.703            |                           |  |                           |  |
| 6,700.0   | 6,623.1             | 6,664.2             | 6,624.0             | 19.4            | 16.4        | -89.97                | -313.1                            | -632.5     | 1,450.1              | 1,424.5               | 25.64                  | 56.547            |                           |  |                           |  |
| 6,750.0   | 6,672.8             | 6,714.1             | 6,673.6             | 19.4            | 16.5        | -89.94                | -307.3                            | -632.5     | 1,450.1              | 1,424.4               | 25.69                  | 56.446            |                           |  |                           |  |
| 6,800.0   | 6,721.9             | 6,763.9             | 6,722.4             | 19.4            | 16.5        | -89.91                | -297.2                            | -632.5     | 1,450.1              | 1,424.4               | 25.68                  | 56.468            |                           |  |                           |  |
| 6,850.0   | 6,770.0             | 6,813.7             | 6,770.0             | 19.4            | 16.4        | -89.89                | -282.9                            | -632.5     | 1,450.1              | 1,424.5               | 25.62                  | 56.593            |                           |  |                           |  |
| 6,900.0   | 6,816.7             | 6,863.4             | 6,816.2             | 19.3            | 16.4        | -89.86                | -264.6                            | -632.5     | 1,450.1              | 1,424.6               | 25.53                  | 56.800            |                           |  |                           |  |
| 6,950.0   | 6,861.6             | 6,913.1             | 6,860.6             | 19.3            | 16.3        | -89.84                | -242.4                            | -632.5     | 1,450.1              | 1,424.7               | 25.41                  | 57.060            |                           |  |                           |  |
| 7,000.0   | 6,904.5             | 6,962.7             | 6,902.9             | 19.3            | 16.3        | -89.81                | -216.4                            | -632.5     | 1,450.1              | 1,424.8               | 25.29                  | 57.341            |                           |  |                           |  |
| 7,050.0   | 6,945.0             | 7,012.3             | 6,942.7             | 19.2            | 16.3        | -89.79                | -186.9                            | -632.5     | 1,450.1              | 1,425.0               | 25.17                  | 57.607            |                           |  |                           |  |
| 7,100.0   | 6,982.8             | 7,061.8             | 6,979.8             | 19.2            | 16.2        | -89.77                | -154.1                            | -632.5     | 1,450.1              | 1,425.1               | 25.08                  | 57.815            |                           |  |                           |  |
| 7,150.0   | 7,017.6             | 7,111.3             | 7,013.9             | 19.2            | 16.2        | -89.75                | -118.3                            | -632.5     | 1,450.1              | 1,425.1               | 25.03                  | 57.925            |                           |  |                           |  |
| 7,200.0   | 7,049.1             | 7,160.7             | 7,044.7             | 19.2            | 16.2        | -89.74                | -79.7                             | -632.5     | 1,450.1              | 1,425.1               | 25.05                  | 57.895            |                           |  |                           |  |
| 7,250.0   | 7,077.1             | 7,210.1             | 7,072.1             | 19.2            | 16.2        | -89.72                | -38.6                             | -632.5     | 1,450.1              | 1,425.0               | 25.14                  | 57.690            |                           |  |                           |  |
| 7,300.0   | 7,101.4             | 7,259.5             | 7,095.8             | 19.2            | 16.3        | -89.71                | 4.7                               | -632.5     | 1,450.1              | 1,424.8               | 25.32                  | 57.281            |                           |  |                           |  |
| 7,350.0   | 7,121.8             | 7,308.8             | 7,115.7             | 19.3            | 16.4        | -89.70                | 49.9                              | -632.5     | 1,450.1              | 1,424.6               | 25.60                  | 56.657            |                           |  |                           |  |
| 7,400.0   | 7,138.1             | 7,358.2             | 7,131.7             | 19.4            | 16.6        | -89.69                | 96.6                              | -632.5     | 1,450.1              | 1,424.2               | 25.98                  | 55.817            |                           |  |                           |  |
| 7,450.0   | 7,150.3             | 7,407.5             | 7,143.6             | 19.6            | 16.7        | -89.69                | 144.4                             | -632.5     | 1,450.1              | 1,423.7               | 26.47                  | 54.779            |                           |  |                           |  |
| 7,500.0   | 7,158.2             | 7,456.8             | 7,151.3             | 19.8            | 17.0        | -89.68                | 193.1                             | -632.5     | 1,450.1              | 1,423.1               | 27.07                  | 53.569            |                           |  |                           |  |
| 7,550.0   | 7,161.8             | 7,506.1             | 7,154.8             | 20.0            | 17.3        | -89.68                | 242.3                             | -632.5     | 1,450.1              | 1,422.4               | 27.77                  | 52.229            |                           |  |                           |  |
| 7,565.9   | 7,162.0             | 7,521.8             | 7,155.0             | 20.1            | 17.3        | -89.68                | 258.0                             | -632.5     | 1,450.1              | 1,422.1               | 28.01                  | 51.781            |                           |  |                           |  |
| 7,600.0   | 7,162.0             | 7,555.9             | 7,155.0             | 20.3            | 17.6        | -89.68                | 292.0                             | -632.5     | 1,450.1              | 1,421.6               | 28.57                  | 50.762            |                           |  |                           |  |
| 7,700.0   | 7,162.0             | 7,655.9             | 7,155.0             | 20.9            | 18.3        | -89.68                | 392.0                             | -632.5     | 1,450.1              | 1,419.7               | 30.40                  | 47.703            |                           |  |                           |  |
| 7,800.0   | 7,162.0             | 7,755.9             | 7,155.0             | 21.7            | 19.2        | -89.68                | 492.0                             | -632.5     | 1,450.1              | 1,417.6               | 32.50                  | 44.618            |                           |  |                           |  |
| 7,900.0   | 7,162.0             | 7,855.9             | 7,155.0             | 22.6            | 20.2        | -89.68                | 592.0                             | -632.5     | 1,450.1              | 1,415.3               | 34.83                  | 41.635            |                           |  |                           |  |
| 8,000.0   | 7,162.0             | 7,955.9             | 7,155.0             | 23.6            | 21.3        | -89.68                | 692.0                             | -632.5     | 1,450.1              | 1,412.8               | 37.34                  | 38.832            |                           |  |                           |  |
| 8,100.0   | 7,162.0             | 8,055.9             | 7,155.0             | 24.6            | 22.5        | -89.68                | 792.0                             | -632.5     | 1,450.1              | 1,410.1               | 40.01                  | 36.247            |                           |  |                           |  |
| 8,200.0   | 7,162.0             | 8,155.9             | 7,155.0             | 25.8            | 23.7        | -89.68                | 892.0                             | -632.5     | 1,450.1              | 1,407.4               | 42.79                  | 33.887            |                           |  |                           |  |
| 8,300.0   | 7,162.0             | 8,255.9             | 7,155.0             | 27.0            | 25.0        | -89.68                | 992.0                             | -632.5     | 1,450.1              | 1,404.5               | 45.68                  | 31.746            |                           |  |                           |  |
| 8,400.0   | 7,162.0             | 8,355.9             | 7,155.0             | 28.2            | 26.4        | -89.68                | 1,092.0                           | -632.5     | 1,450.1              | 1,401.5               | 48.65                  | 29.809            |                           |  |                           |  |
| 8,500.0   | 7,162.0             | 8,455.9             | 7,155.0             | 29.6            | 27.8        | -89.68                | 1,192.0                           | -632.5     | 1,450.1              | 1,398.5               | 51.68                  | 28.058            |                           |  |                           |  |
| 8,600.0   | 7,162.0             | 8,555.9             | 7,155.0             | 30.9            | 29.2        | -89.68                | 1,292.0                           | -632.5     | 1,450.1              | 1,395.4               | 54.77                  | 26.475            |                           |  |                           |  |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4B-20H-O264 - 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<br>(ft)  | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Total<br>Uncertainty<br>Axis | Separation<br>Factor |                    |        |
| 8,700.0   | 7,162.0                | 8,655.9                | 7,155.0                | 32.3              | 30.7           | -89.68                      | 1,392.0                                 | -632.5        | 1,450.1                    | 1,392.2                     | 57.91                        | 25.039               |                    |        |
| 8,800.0   | 7,162.0                | 8,755.9                | 7,155.0                | 33.7              | 32.2           | -89.68                      | 1,492.0                                 | -632.5        | 1,450.1                    | 1,389.0                     | 61.09                        | 23.736               |                    |        |
| 8,900.0   | 7,162.0                | 8,855.9                | 7,155.0                | 35.2              | 33.7           | -89.68                      | 1,592.0                                 | -632.5        | 1,450.1                    | 1,385.8                     | 64.31                        | 22.550               |                    |        |
| 9,000.0   | 7,162.0                | 8,955.9                | 7,155.0                | 36.7              | 35.3           | -89.68                      | 1,692.0                                 | -632.5        | 1,450.1                    | 1,382.6                     | 67.55                        | 21.467               |                    |        |
| 9,100.0   | 7,162.0                | 9,055.9                | 7,155.0                | 38.2              | 36.9           | -89.68                      | 1,792.0                                 | -632.5        | 1,450.1                    | 1,379.3                     | 70.82                        | 20.477               |                    |        |
| 9,200.0   | 7,162.0                | 9,155.9                | 7,155.0                | 39.7              | 38.4           | -89.68                      | 1,892.0                                 | -632.5        | 1,450.1                    | 1,376.0                     | 74.11                        | 19.567               |                    |        |
| 9,300.0   | 7,162.0                | 9,255.9                | 7,155.0                | 41.3              | 40.0           | -89.68                      | 1,992.0                                 | -632.5        | 1,450.1                    | 1,372.7                     | 77.42                        | 18.731               |                    |        |
| 9,400.0   | 7,162.0                | 9,355.9                | 7,155.0                | 42.8              | 41.6           | -89.68                      | 2,092.0                                 | -632.5        | 1,450.1                    | 1,369.4                     | 80.75                        | 17.959               |                    |        |
| 9,500.0   | 7,162.0                | 9,455.9                | 7,155.0                | 44.4              | 43.3           | -89.68                      | 2,192.0                                 | -632.5        | 1,450.1                    | 1,366.1                     | 84.09                        | 17.246               |                    |        |
| 9,600.0   | 7,162.0                | 9,555.9                | 7,155.0                | 46.0              | 44.9           | -89.68                      | 2,292.0                                 | -632.5        | 1,450.1                    | 1,362.7                     | 87.44                        | 16.584               |                    |        |
| 9,700.0   | 7,162.0                | 9,655.9                | 7,155.0                | 47.6              | 46.5           | -89.68                      | 2,392.0                                 | -632.5        | 1,450.1                    | 1,359.3                     | 90.81                        | 15.970               |                    |        |
| 9,800.0   | 7,162.0                | 9,755.9                | 7,155.0                | 49.2              | 48.2           | -89.68                      | 2,492.0                                 | -632.5        | 1,450.1                    | 1,356.0                     | 94.18                        | 15.397               |                    |        |
| 9,900.0   | 7,162.0                | 9,855.9                | 7,155.0                | 50.9              | 49.8           | -89.68                      | 2,592.0                                 | -632.5        | 1,450.1                    | 1,352.6                     | 97.57                        | 14.863               |                    |        |
| 10,000.0  | 7,162.0                | 9,955.9                | 7,155.0                | 52.5              | 51.5           | -89.68                      | 2,692.0                                 | -632.5        | 1,450.1                    | 1,349.2                     | 100.96                       | 14.363               |                    |        |
| 10,100.0  | 7,162.0                | 10,055.9               | 7,155.0                | 54.1              | 53.2           | -89.68                      | 2,792.0                                 | -632.5        | 1,450.1                    | 1,345.8                     | 104.36                       | 13.895               |                    |        |
| 10,200.0  | 7,162.0                | 10,155.9               | 7,155.0                | 55.8              | 54.8           | -89.68                      | 2,892.0                                 | -632.5        | 1,450.1                    | 1,342.4                     | 107.77                       | 13.456               |                    |        |
| 10,300.0  | 7,162.0                | 10,255.9               | 7,155.0                | 57.4              | 56.5           | -89.68                      | 2,992.0                                 | -632.5        | 1,450.1                    | 1,339.0                     | 111.19                       | 13.042               |                    |        |
| 10,400.0  | 7,162.0                | 10,355.9               | 7,155.0                | 59.1              | 58.2           | -89.68                      | 3,092.0                                 | -632.5        | 1,450.1                    | 1,335.5                     | 114.61                       | 12.653               |                    |        |
| 10,500.0  | 7,162.0                | 10,455.9               | 7,155.0                | 60.7              | 59.9           | -89.68                      | 3,192.0                                 | -632.5        | 1,450.1                    | 1,332.1                     | 118.03                       | 12.286               |                    |        |
| 10,600.0  | 7,162.0                | 10,555.9               | 7,155.0                | 62.4              | 61.6           | -89.68                      | 3,292.0                                 | -632.5        | 1,450.1                    | 1,328.7                     | 121.46                       | 11.939               |                    |        |
| 10,700.0  | 7,162.0                | 10,655.9               | 7,155.0                | 64.1              | 63.3           | -89.68                      | 3,392.0                                 | -632.5        | 1,450.1                    | 1,325.2                     | 124.90                       | 11.611               |                    |        |
| 10,800.0  | 7,162.0                | 10,755.9               | 7,155.0                | 65.8              | 65.0           | -89.68                      | 3,492.0                                 | -632.5        | 1,450.1                    | 1,321.8                     | 128.33                       | 11.300               |                    |        |
| 10,900.0  | 7,162.0                | 10,855.9               | 7,155.0                | 67.4              | 66.7           | -89.68                      | 3,592.0                                 | -632.5        | 1,450.1                    | 1,318.4                     | 131.78                       | 11.005               |                    |        |
| 11,000.0  | 7,162.0                | 10,955.9               | 7,155.0                | 69.1              | 68.4           | -89.68                      | 3,692.0                                 | -632.5        | 1,450.1                    | 1,314.9                     | 135.22                       | 10.724               |                    |        |
| 11,100.0  | 7,162.0                | 11,055.9               | 7,155.0                | 70.8              | 70.1           | -89.68                      | 3,792.0                                 | -632.5        | 1,450.1                    | 1,311.5                     | 138.67                       | 10.457               |                    |        |
| 11,200.0  | 7,162.0                | 11,155.9               | 7,155.0                | 72.5              | 71.8           | -89.68                      | 3,892.0                                 | -632.5        | 1,450.1                    | 1,308.0                     | 142.12                       | 10.203               |                    |        |
| 11,300.0  | 7,162.0                | 11,255.9               | 7,155.0                | 74.2              | 73.5           | -89.68                      | 3,992.0                                 | -632.5        | 1,450.1                    | 1,304.6                     | 145.58                       | 9.961                |                    |        |
| 11,400.0  | 7,162.0                | 11,355.9               | 7,155.0                | 75.9              | 75.2           | -89.68                      | 4,092.0                                 | -632.5        | 1,450.1                    | 1,301.1                     | 149.03                       | 9.730                |                    |        |
| 11,500.0  | 7,162.0                | 11,455.9               | 7,155.0                | 77.6              | 76.9           | -89.68                      | 4,192.0                                 | -632.5        | 1,450.1                    | 1,297.6                     | 152.49                       | 9.510                |                    |        |
| 11,600.0  | 7,162.0                | 11,555.9               | 7,155.0                | 79.3              | 78.6           | -89.68                      | 4,292.0                                 | -632.5        | 1,450.1                    | 1,294.2                     | 155.95                       | 9.299                |                    |        |
| 11,700.0  | 7,162.0                | 11,655.9               | 7,155.0                | 81.0              | 80.4           | -89.68                      | 4,392.0                                 | -632.5        | 1,450.1                    | 1,290.7                     | 159.42                       | 9.097                |                    |        |
| 11,770.9  | 7,162.0                | 11,726.9               | 7,155.0                | 82.2              | 81.6           | -89.68                      | 4,463.0                                 | -632.5        | 1,450.1                    | 1,288.3                     | 161.87                       | 8.958                |                    |        |
| 11,801.7  | 7,162.0                | 11,752.2               | 7,155.0                | 82.7              | 82.0           | -89.68                      | 4,488.3                                 | -632.5        | 1,450.1                    | 1,287.3                     | 162.85                       | 8.905 SF             |                    |        |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4C-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program:   |                     | 0-Geolink MWD       |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |         |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | -89.46                | 0.4                               | -37.5      | 37.5                 |                       |                        |                   |                    |         |
| 100.0   | 100.0               | 100.0               | 100.0               | 0.1             | 0.1         | -89.46                | 0.4                               | -37.5      | 37.5                 | 37.2                  | 0.24                   | 153.379           |                    |         |
| 200.0   | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -89.46                | 0.4                               | -37.5      | 37.5                 | 36.9                  | 0.59                   | 63.156            |                    |         |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -89.46                | 0.4                               | -37.5      | 37.5                 | 36.5                  | 0.94                   | 39.765            | CC, ES             |         |
| 350.0   | 350.0               | 349.5               | 349.5               | 0.6             | 0.6         | -89.88                | 0.1                               | -37.8      | 37.8                 | 36.7                  | 1.12                   | 33.841            |                    |         |
| 400.0   | 400.0               | 399.0               | 398.9               | 0.6             | 0.6         | 157.95                | -0.7                              | -38.8      | 39.0                 | 37.7                  | 1.29                   | 30.223            |                    |         |
| 500.0   | 500.0               | 497.6               | 497.5               | 0.8             | 0.8         | 154.64                | -4.0                              | -42.7      | 44.7                 | 43.1                  | 1.64                   | 27.226            |                    |         |
| 600.0   | 599.9               | 596.2               | 595.7               | 1.0             | 1.0         | 151.11                | -9.3                              | -49.0      | 54.8                 | 52.8                  | 2.00                   | 27.398            |                    |         |
| 700.0   | 699.8               | 695.5               | 694.6               | 1.2             | 1.3         | 149.12                | -15.0                             | -55.9      | 67.0                 | 64.7                  | 2.36                   | 28.402            |                    |         |
| 800.0   | 799.5               | 794.5               | 793.2               | 1.4             | 1.5         | 148.39                | -20.7                             | -62.8      | 80.8                 | 78.1                  | 2.72                   | 29.657            |                    |         |
| 900.0   | 899.2               | 893.3               | 891.6               | 1.6             | 1.7         | 148.40                | -26.4                             | -69.6      | 96.0                 | 92.9                  | 3.09                   | 31.045            |                    |         |
| 1,000.0   | 998.6               | 991.9               | 989.8               | 1.8             | 1.9         | 148.84                | -32.1                             | -76.4      | 112.7                | 109.3                 | 3.47                   | 32.514            |                    |         |
| 1,100.0   | 1,097.9             | 1,090.2             | 1,087.7             | 2.1             | 2.2         | 149.54                | -37.8                             | -83.2      | 130.9                | 127.1                 | 3.85                   | 34.040            |                    |         |
| 1,200.0   | 1,196.9             | 1,188.3             | 1,185.4             | 2.4             | 2.4         | 150.38                | -43.4                             | -90.0      | 150.6                | 146.4                 | 4.23                   | 35.611            |                    |         |
| 1,300.0   | 1,295.7             | 1,285.9             | 1,282.6             | 2.7             | 2.6         | 151.28                | -49.0                             | -96.8      | 171.8                | 167.2                 | 4.62                   | 37.220            |                    |         |
| 1,400.0   | 1,394.1             | 1,383.3             | 1,379.6             | 3.0             | 2.8         | 152.20                | -54.7                             | -103.5     | 194.6                | 189.6                 | 5.01                   | 38.864            |                    |         |
| 1,437.9   | 1,431.4             | 1,420.1             | 1,416.2             | 3.1             | 2.9         | 152.55                | -56.8                             | -106.0     | 203.7                | 198.5                 | 5.16                   | 39.501            |                    |         |
| 1,500.0   | 1,492.4             | 1,480.3             | 1,476.2             | 3.4             | 3.1         | 153.15                | -60.3                             | -110.2     | 218.7                | 213.3                 | 5.40                   | 40.464            |                    |         |
| 1,600.0   | 1,590.6             | 1,577.2             | 1,572.8             | 3.7             | 3.3         | 153.95                | -65.8                             | -116.9     | 242.9                | 237.1                 | 5.80                   | 41.849            |                    |         |
| 1,700.0   | 1,688.8             | 1,674.2             | 1,669.3             | 4.1             | 3.5         | 154.61                | -71.4                             | -123.6     | 267.1                | 260.9                 | 6.20                   | 43.062            |                    |         |
| 1,800.0   | 1,787.0             | 1,771.2             | 1,765.9             | 4.4             | 3.7         | 155.16                | -77.0                             | -130.3     | 291.4                | 284.8                 | 6.60                   | 44.131            |                    |         |
| 1,900.0   | 1,885.2             | 1,868.2             | 1,862.5             | 4.8             | 4.0         | 155.63                | -82.6                             | -137.0     | 315.6                | 308.6                 | 7.00                   | 45.082            |                    |         |
| 2,000.0   | 1,983.4             | 1,965.1             | 1,959.1             | 5.2             | 4.2         | 156.03                | -88.2                             | -143.7     | 340.0                | 332.6                 | 7.40                   | 45.932            |                    |         |
| 2,100.0   | 2,081.6             | 2,062.1             | 2,055.7             | 5.5             | 4.4         | 156.37                | -93.8                             | -150.5     | 364.3                | 356.5                 | 7.80                   | 46.697            |                    |         |
| 2,200.0   | 2,179.8             | 2,159.1             | 2,152.2             | 5.9             | 4.7         | 156.67                | -99.4                             | -157.2     | 388.6                | 380.4                 | 8.20                   | 47.389            |                    |         |
| 2,300.0   | 2,278.0             | 2,256.1             | 2,248.8             | 6.3             | 4.9         | 156.94                | -105.0                            | -163.9     | 412.9                | 404.3                 | 8.60                   | 48.017            |                    |         |
| 2,400.0   | 2,376.2             | 2,353.1             | 2,345.4             | 6.6             | 5.1         | 157.18                | -110.6                            | -170.6     | 437.3                | 428.3                 | 9.00                   | 48.591            |                    |         |
| 2,500.0   | 2,474.4             | 2,450.0             | 2,442.0             | 7.0             | 5.3         | 157.39                | -116.2                            | -177.3     | 461.6                | 452.2                 | 9.40                   | 49.116            |                    |         |
| 2,600.0   | 2,572.6             | 2,547.0             | 2,538.6             | 7.4             | 5.6         | 157.58                | -121.8                            | -184.0     | 486.0                | 476.2                 | 9.80                   | 49.599            |                    |         |
| 2,700.0   | 2,670.8             | 2,644.0             | 2,635.2             | 7.7             | 5.8         | 157.75                | -127.3                            | -190.7     | 510.4                | 500.2                 | 10.20                  | 50.045            |                    |         |
| 2,800.0   | 2,769.0             | 2,741.0             | 2,731.7             | 8.1             | 6.0         | 157.91                | -132.9                            | -197.4     | 534.7                | 524.1                 | 10.60                  | 50.457            |                    |         |
| 2,900.0   | 2,867.2             | 2,837.9             | 2,828.3             | 8.5             | 6.2         | 158.05                | -138.5                            | -204.1     | 559.1                | 548.1                 | 11.00                  | 50.840            |                    |         |
| 3,000.0   | 2,965.4             | 2,934.9             | 2,924.9             | 8.9             | 6.5         | 158.18                | -144.1                            | -210.8     | 583.5                | 572.1                 | 11.40                  | 51.197            |                    |         |
| 3,100.0   | 3,063.6             | 3,031.9             | 3,021.5             | 9.2             | 6.7         | 158.31                | -149.7                            | -217.5     | 607.8                | 596.0                 | 11.80                  | 51.529            |                    |         |
| 3,200.0   | 3,161.8             | 3,128.9             | 3,118.1             | 9.6             | 6.9         | 158.42                | -155.3                            | -224.3     | 632.2                | 620.0                 | 12.20                  | 51.840            |                    |         |
| 3,300.0   | 3,260.0             | 3,225.8             | 3,214.6             | 10.0            | 7.2         | 158.52                | -160.9                            | -231.0     | 656.6                | 644.0                 | 12.59                  | 52.131            |                    |         |
| 3,400.0   | 3,358.2             | 3,322.8             | 3,311.2             | 10.4            | 7.4         | 158.62                | -166.5                            | -237.7     | 681.0                | 668.0                 | 12.99                  | 52.405            |                    |         |
| 3,500.0   | 3,456.4             | 3,419.8             | 3,407.8             | 10.7            | 7.6         | 158.71                | -172.1                            | -244.4     | 705.3                | 692.0                 | 13.39                  | 52.662            |                    |         |
| 3,600.0   | 3,554.6             | 3,516.8             | 3,504.4             | 11.1            | 7.8         | 158.79                | -177.7                            | -251.1     | 729.7                | 715.9                 | 13.79                  | 52.904            |                    |         |
| 3,700.0   | 3,652.8             | 3,613.7             | 3,601.0             | 11.5            | 8.1         | 158.87                | -183.3                            | -257.8     | 754.1                | 739.9                 | 14.19                  | 53.133            |                    |         |
| 3,800.0   | 3,751.0             | 3,710.7             | 3,697.6             | 11.9            | 8.3         | 158.94                | -188.8                            | -264.5     | 778.5                | 763.9                 | 14.59                  | 53.350            |                    |         |
| 3,900.0   | 3,849.2             | 3,807.7             | 3,794.1             | 12.2            | 8.5         | 159.01                | -194.4                            | -271.2     | 802.9                | 787.9                 | 14.99                  | 53.555            |                    |         |
| 4,000.0   | 3,947.4             | 3,904.7             | 3,890.7             | 12.6            | 8.7         | 159.07                | -200.0                            | -277.9     | 827.3                | 811.9                 | 15.39                  | 53.749            |                    |         |
| 4,100.0   | 4,045.6             | 4,001.6             | 3,987.3             | 13.0            | 9.0         | 159.13                | -205.6                            | -284.6     | 851.7                | 835.9                 | 15.79                  | 53.934            |                    |         |
| 4,200.0   | 4,143.8             | 4,098.6             | 4,083.9             | 13.4            | 9.2         | 159.19                | -211.2                            | -291.4     | 876.1                | 859.9                 | 16.19                  | 54.109            |                    |         |
| 4,300.0   | 4,242.0             | 4,195.6             | 4,180.5             | 13.7            | 9.4         | 159.24                | -216.8                            | -298.1     | 900.5                | 883.9                 | 16.59                  | 54.277            |                    |         |
| 4,400.0   | 4,340.2             | 4,292.6             | 4,277.1             | 14.1            | 9.7         | 159.30                | -222.4                            | -304.8     | 924.8                | 907.9                 | 16.99                  | 54.436            |                    |         |
| 4,500.0   | 4,438.4             | 4,389.6             | 4,373.6             | 14.5            | 9.9         | 159.34                | -228.0                            | -311.5     | 949.2                | 931.8                 | 17.39                  | 54.588            |                    |         |
| 4,600.0   | 4,536.6             | 4,486.5             | 4,470.2             | 14.9            | 10.1        | 159.39                | -233.6                            | -318.2     | 973.6                | 955.8                 | 17.79                  | 54.733            |                    |         |
| 4,700.0   | 4,634.8             | 4,583.5             | 4,566.8             | 15.2            | 10.3        | 159.44                | -239.2                            | -324.9     | 998.0                | 979.8                 | 18.19                  | 54.872            |                    |         |
| 4,800.0   | 4,733.0             | 4,680.5             | 4,663.4             | 15.6            | 10.6        | 159.48                | -244.8                            | -331.6     | 1,022.4              | 1,003.8               | 18.59                  | 55.005            |                    |         |
| 4,900.0   | 4,831.2             | 4,777.5             | 4,760.0             | 16.0            | 10.8        | 159.52                | -250.3                            | -338.3     | 1,046.8              | 1,027.8               | 18.99                  | 55.133            |                    |         |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4C-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |                           |  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|---------------------------|--|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |                           |         | Offset Well Error: 0.0 ft |  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | Warning |                           |  |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |         |                           |  |
| 4,988.9   | 4,918.6             | 4,863.7             | 4,845.9             | 16.3            | 11.0        | 159.55                | -255.3                            | -344.3     | 1,068.5              | 1,049.2               | 19.34                  | 55.242            |                           |         |                           |  |
| 5,000.0   | 4,929.5             | 4,874.4             | 4,856.6             | 16.4            | 11.0        | 159.57                | -255.9                            | -345.0     | 1,071.2              | 1,051.8               | 19.39                  | 55.247            |                           |         |                           |  |
| 5,100.0   | 5,027.9             | 4,971.7             | 4,953.4             | 16.7            | 11.3        | 159.67                | -261.5                            | -351.8     | 1,094.6              | 1,074.8               | 19.81                  | 55.260            |                           |         |                           |  |
| 5,200.0   | 5,126.5             | 5,069.2             | 5,050.6             | 17.0            | 11.5        | 159.73                | -267.2                            | -358.5     | 1,116.5              | 1,096.2               | 20.22                  | 55.207            |                           |         |                           |  |
| 5,300.0   | 5,225.5             | 5,167.2             | 5,148.1             | 17.3            | 11.7        | 159.75                | -272.8                            | -365.3     | 1,136.7              | 1,116.1               | 20.63                  | 55.091            |                           |         |                           |  |
| 5,400.0   | 5,324.7             | 5,265.4             | 5,245.9             | 17.6            | 11.9        | 159.74                | -278.5                            | -372.1     | 1,155.3              | 1,134.3               | 21.04                  | 54.916            |                           |         |                           |  |
| 5,500.0   | 5,424.1             | 5,363.9             | 5,344.0             | 17.8            | 12.2        | 159.70                | -284.2                            | -378.9     | 1,172.3              | 1,150.9               | 21.44                  | 54.687            |                           |         |                           |  |
| 5,600.0   | 5,523.7             | 5,462.7             | 5,442.4             | 18.1            | 12.4        | 159.62                | -289.9                            | -385.7     | 1,187.7              | 1,165.9               | 21.83                  | 54.406            |                           |         |                           |  |
| 5,700.0   | 5,623.4             | 5,561.7             | 5,541.0             | 18.2            | 12.6        | 159.51                | -295.6                            | -392.6     | 1,201.5              | 1,179.3               | 22.22                  | 54.076            |                           |         |                           |  |
| 5,800.0   | 5,723.2             | 5,660.9             | 5,639.8             | 18.4            | 12.9        | 159.38                | -301.3                            | -399.4     | 1,213.7              | 1,191.1               | 22.60                  | 53.701            |                           |         |                           |  |
| 5,900.0   | 5,823.2             | 5,760.2             | 5,738.7             | 18.6            | 13.1        | 159.21                | -307.0                            | -406.3     | 1,224.3              | 1,201.3               | 22.98                  | 53.283            |                           |         |                           |  |
| 6,000.0   | 5,923.1             | 5,907.1             | 5,885.3             | 18.7            | 13.4        | 159.00                | -313.2                            | -413.7     | 1,231.4              | 1,208.0               | 23.41                  | 52.599            |                           |         |                           |  |
| 6,076.9   | 6,000.0             | 6,021.9             | 6,000.0             | 18.7            | 13.5        | -89.98                | -314.6                            | -415.5     | 1,233.1              | 1,209.4               | 23.71                  | 52.008            |                           |         |                           |  |
| 6,100.0   | 6,023.1             | 6,045.0             | 6,023.1             | 18.8            | 13.6        | -89.98                | -314.6                            | -415.5     | 1,233.1              | 1,209.3               | 23.78                  | 51.851            |                           |         |                           |  |
| 6,200.0   | 6,123.1             | 6,145.0             | 6,123.1             | 18.9            | 13.7        | -89.98                | -314.6                            | -415.5     | 1,233.1              | 1,209.0               | 24.09                  | 51.184            |                           |         |                           |  |
| 6,300.0   | 6,223.1             | 6,245.0             | 6,223.1             | 19.0            | 13.9        | -89.98                | -314.6                            | -415.5     | 1,233.1              | 1,208.7               | 24.40                  | 50.531            |                           |         |                           |  |
| 6,400.0   | 6,323.1             | 6,345.0             | 6,323.1             | 19.1            | 14.0        | -89.98                | -314.6                            | -415.5     | 1,233.1              | 1,208.4               | 24.71                  | 49.893            |                           |         |                           |  |
| 6,469.0   | 6,392.1             | 6,414.0             | 6,392.2             | 19.1            | 14.1        | -89.93                | -313.5                            | -415.5     | 1,233.1              | 1,208.2               | 24.91                  | 49.506            |                           |         |                           |  |
| 6,500.0   | 6,423.1             | 6,444.9             | 6,422.9             | 19.2            | 14.1        | -89.80                | -310.7                            | -415.5     | 1,233.1              | 1,208.1               | 24.97                  | 49.388            |                           |         |                           |  |
| 6,600.0   | 6,523.1             | 6,540.9             | 6,516.9             | 19.3            | 14.1        | -88.91                | -291.6                            | -415.4     | 1,233.3              | 1,208.2               | 25.05                  | 49.230            |                           |         |                           |  |
| 6,665.9   | 6,589.0             | 6,600.0             | 6,572.6             | 19.3            | 14.0        | -88.01                | -272.1                            | -415.4     | 1,233.9              | 1,208.8               | 25.05                  | 49.263            |                           |         |                           |  |
| 6,700.0   | 6,623.1             | 6,628.9             | 6,599.1             | 19.4            | 14.0        | -87.46                | -260.6                            | -415.4     | 1,234.4              | 1,209.4               | 25.01                  | 49.347            |                           |         |                           |  |
| 6,750.0   | 6,672.8             | 6,670.6             | 6,636.2             | 19.4            | 13.9        | -86.66                | -241.5                            | -415.4     | 1,235.3              | 1,210.4               | 24.94                  | 49.535            |                           |         |                           |  |
| 6,800.0   | 6,721.9             | 6,711.5             | 6,671.1             | 19.4            | 13.9        | -85.88                | -220.2                            | -415.3     | 1,236.5              | 1,211.7               | 24.84                  | 49.777            |                           |         |                           |  |
| 6,850.0   | 6,770.0             | 6,750.0             | 6,702.5             | 19.4            | 13.8        | -85.16                | -198.0                            | -415.3     | 1,237.8              | 1,213.1               | 24.73                  | 50.046            |                           |         |                           |  |
| 6,900.0   | 6,816.7             | 6,791.0             | 6,734.3             | 19.3            | 13.8        | -84.41                | -172.0                            | -415.2     | 1,239.3              | 1,214.7               | 24.62                  | 50.338            |                           |         |                           |  |
| 6,950.0   | 6,861.6             | 6,829.8             | 6,762.5             | 19.3            | 13.8        | -83.72                | -145.5                            | -415.2     | 1,240.8              | 1,216.3               | 24.52                  | 50.607            |                           |         |                           |  |
| 7,000.0   | 6,904.5             | 6,868.0             | 6,788.5             | 19.3            | 13.8        | -83.08                | -117.5                            | -415.1     | 1,242.5              | 1,218.0               | 24.44                  | 50.841            |                           |         |                           |  |
| 7,050.0   | 6,945.0             | 6,905.8             | 6,812.3             | 19.2            | 13.8        | -82.47                | -88.2                             | -415.1     | 1,244.1              | 1,219.7               | 24.39                  | 51.018            |                           |         |                           |  |
| 7,100.0   | 6,982.8             | 6,943.1             | 6,833.9             | 19.2            | 13.8        | -81.91                | -57.8                             | -415.0     | 1,245.7              | 1,221.3               | 24.37                  | 51.108            |                           |         |                           |  |
| 7,150.0   | 7,017.6             | 6,980.0             | 6,853.3             | 19.2            | 13.8        | -81.39                | -26.3                             | -415.0     | 1,247.2              | 1,222.8               | 24.41                  | 51.101            |                           |         |                           |  |
| 7,200.0   | 7,049.1             | 7,016.7             | 6,870.5             | 19.2            | 13.9        | -80.93                | 6.1                               | -414.9     | 1,248.6              | 1,224.1               | 24.51                  | 50.948            |                           |         |                           |  |
| 7,250.0   | 7,077.1             | 7,050.0             | 6,884.3             | 19.2            | 14.0        | -80.54                | 36.4                              | -414.9     | 1,250.0              | 1,225.3               | 24.64                  | 50.719            |                           |         |                           |  |
| 7,300.0   | 7,101.4             | 7,089.2             | 6,898.2             | 19.2            | 14.1        | -80.16                | 73.0                              | -414.8     | 1,251.1              | 1,226.2               | 24.88                  | 50.294            |                           |         |                           |  |
| 7,350.0   | 7,121.8             | 7,125.1             | 6,908.8             | 19.3            | 14.2        | -79.87                | 107.4                             | -414.8     | 1,252.1              | 1,226.9               | 25.17                  | 49.751            |                           |         |                           |  |
| 7,400.0   | 7,138.1             | 7,160.9             | 6,917.1             | 19.4            | 14.4        | -79.63                | 142.2                             | -414.7     | 1,252.9              | 1,227.4               | 25.53                  | 49.084            |                           |         |                           |  |
| 7,450.0   | 7,150.3             | 7,200.0             | 6,923.7             | 19.6            | 14.6        | -79.45                | 180.7                             | -414.6     | 1,253.5              | 1,227.5               | 25.97                  | 48.261            |                           |         |                           |  |
| 7,500.0   | 7,158.2             | 7,232.2             | 6,927.2             | 19.8            | 14.8        | -79.34                | 212.7                             | -414.6     | 1,253.8              | 1,227.4               | 26.46                  | 47.383            |                           |         |                           |  |
| 7,550.0   | 7,161.8             | 7,267.8             | 6,928.9             | 20.0            | 15.0        | -79.29                | 248.2                             | -414.5     | 1,254.0              | 1,226.9               | 27.03                  | 46.398            |                           |         |                           |  |
| 7,565.9   | 7,162.0             | 7,279.6             | 6,929.0             | 20.1            | 15.1        | -79.29                | 260.0                             | -414.5     | 1,254.0              | 1,226.7               | 27.22                  | 46.062            |                           |         |                           |  |
| 7,600.0   | 7,162.0             | 7,313.7             | 6,929.0             | 20.3            | 15.4        | -79.29                | 294.1                             | -414.5     | 1,253.9              | 1,226.1               | 27.78                  | 45.134            |                           |         |                           |  |
| 7,700.0   | 7,162.0             | 7,413.7             | 6,929.0             | 20.9            | 16.2        | -79.29                | 394.1                             | -414.3     | 1,253.7              | 1,224.1               | 29.60                  | 42.353            |                           |         |                           |  |
| 7,800.0   | 7,162.0             | 7,513.7             | 6,929.0             | 21.7            | 17.2        | -79.29                | 494.1                             | -414.1     | 1,253.6              | 1,221.9               | 31.69                  | 39.551            |                           |         |                           |  |
| 7,900.0   | 7,162.0             | 7,613.7             | 6,929.0             | 22.6            | 18.3        | -79.29                | 594.1                             | -413.9     | 1,253.4              | 1,219.4               | 34.01                  | 36.855            |                           |         |                           |  |
| 8,000.0   | 7,162.0             | 7,713.7             | 6,929.0             | 23.6            | 19.5        | -79.29                | 694.1                             | -413.8     | 1,253.2              | 1,216.7               | 36.50                  | 34.333            |                           |         |                           |  |
| 8,100.0   | 7,162.0             | 7,813.7             | 6,929.0             | 24.6            | 20.8        | -79.28                | 794.1                             | -413.6     | 1,253.1              | 1,213.9               | 39.14                  | 32.015            |                           |         |                           |  |
| 8,200.0   | 7,162.0             | 7,913.7             | 6,929.0             | 25.8            | 22.1        | -79.28                | 894.1                             | -413.4     | 1,252.9              | 1,211.0               | 41.90                  | 29.905            |                           |         |                           |  |
| 8,300.0   | 7,162.0             | 8,013.7             | 6,929.0             | 27.0            | 23.5        | -79.28                | 994.1                             | -413.3     | 1,252.7              | 1,208.0               | 44.75                  | 27.995            |                           |         |                           |  |
| 8,400.0   | 7,162.0             | 8,113.7             | 6,929.0             | 28.2            | 25.0        | -79.28                | 1,094.1                           | -413.1     | 1,252.6              | 1,204.9               | 47.68                  | 26.270            |                           |         |                           |  |
| 8,500.0   | 7,162.0             | 8,213.7             | 6,929.0             | 29.6            | 26.4        | -79.28                | 1,194.1                           | -412.9     | 1,252.4              | 1,201.7               | 50.68                  | 24.714            |                           |         |                           |  |
| 8,600.0   | 7,162.0             | 8,313.7             | 6,929.0             | 30.9            | 27.9        | -79.28                | 1,294.1                           | -412.8     | 1,252.2              | 1,198.5               | 53.73                  | 23.308            |                           |         |                           |  |
| 8,700.0   | 7,162.0             | 8,413.7             | 6,929.0             | 32.3            | 29.5        | -79.28                | 1,394.1                           | -412.6     | 1,252.1              | 1,195.3               | 56.82                  | 22.035            |                           |         |                           |  |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4C-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |  | Offset Site Error: 0.0 ft |  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--|---------------------------|--|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |  | Offset Well Error: 0.0 ft |  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |  | Warning                   |  |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |  |                           |  |
| 8,800.0   | 7,162.0             | 8,513.7             | 6,929.0             | 33.7            | 31.0        | -79.27                | 1,494.1                           | -412.4     | 1,251.9              | 1,192.0               | 59.96                  | 20.881            |  |                           |  |
| 8,900.0   | 7,162.0             | 8,613.7             | 6,929.0             | 35.2            | 32.6        | -79.27                | 1,594.1                           | -412.3     | 1,251.8              | 1,188.6               | 63.12                  | 19.831            |  |                           |  |
| 9,000.0   | 7,162.0             | 8,713.7             | 6,929.0             | 36.7            | 34.2        | -79.27                | 1,694.1                           | -412.1     | 1,251.6              | 1,185.3               | 66.32                  | 18.873            |  |                           |  |
| 9,100.0   | 7,162.0             | 8,813.7             | 6,929.0             | 38.2            | 35.8        | -79.27                | 1,794.1                           | -411.9     | 1,251.4              | 1,181.9               | 69.54                  | 17.997            |  |                           |  |
| 9,200.0   | 7,162.0             | 8,913.7             | 6,929.0             | 39.7            | 37.5        | -79.27                | 1,894.1                           | -411.8     | 1,251.3              | 1,178.5               | 72.78                  | 17.193            |  |                           |  |
| 9,300.0   | 7,162.0             | 9,013.7             | 6,929.0             | 41.3            | 39.1        | -79.27                | 1,994.1                           | -411.6     | 1,251.1              | 1,175.1               | 76.03                  | 16.455            |  |                           |  |
| 9,400.0   | 7,162.0             | 9,113.7             | 6,929.0             | 42.8            | 40.7        | -79.27                | 2,094.1                           | -411.4     | 1,250.9              | 1,171.6               | 79.31                  | 15.773            |  |                           |  |
| 9,500.0   | 7,162.0             | 9,213.7             | 6,929.0             | 44.4            | 42.4        | -79.26                | 2,194.1                           | -411.3     | 1,250.8              | 1,168.2               | 82.60                  | 15.143            |  |                           |  |
| 9,600.0   | 7,162.0             | 9,313.7             | 6,929.0             | 46.0            | 44.1        | -79.26                | 2,294.1                           | -411.1     | 1,250.6              | 1,164.7               | 85.90                  | 14.560            |  |                           |  |
| 9,700.0   | 7,162.0             | 9,413.7             | 6,929.0             | 47.6            | 45.7        | -79.26                | 2,394.1                           | -410.9     | 1,250.4              | 1,161.2               | 89.21                  | 14.017            |  |                           |  |
| 9,800.0   | 7,162.0             | 9,513.7             | 6,929.0             | 49.2            | 47.4        | -79.26                | 2,494.1                           | -410.8     | 1,250.3              | 1,157.7               | 92.53                  | 13.512            |  |                           |  |
| 9,900.0   | 7,162.0             | 9,613.7             | 6,929.0             | 50.9            | 49.1        | -79.26                | 2,594.1                           | -410.6     | 1,250.1              | 1,154.2               | 95.86                  | 13.041            |  |                           |  |
| 10,000.0  | 7,162.0             | 9,713.7             | 6,929.0             | 52.5            | 50.8        | -79.26                | 2,694.1                           | -410.4     | 1,249.9              | 1,150.7               | 99.20                  | 12.601            |  |                           |  |
| 10,100.0  | 7,162.0             | 9,813.7             | 6,929.0             | 54.1            | 52.5        | -79.26                | 2,794.1                           | -410.3     | 1,249.8              | 1,147.2               | 102.54                 | 12.188            |  |                           |  |
| 10,200.0  | 7,162.0             | 9,913.7             | 6,929.0             | 55.8            | 54.2        | -79.25                | 2,894.1                           | -410.1     | 1,249.6              | 1,143.7               | 105.89                 | 11.801            |  |                           |  |
| 10,300.0  | 7,162.0             | 10,013.7            | 6,929.0             | 57.4            | 55.9        | -79.25                | 2,994.1                           | -409.9     | 1,249.4              | 1,140.2               | 109.25                 | 11.436            |  |                           |  |
| 10,400.0  | 7,162.0             | 10,113.7            | 6,929.0             | 59.1            | 57.6        | -79.25                | 3,094.1                           | -409.8     | 1,249.3              | 1,136.7               | 112.61                 | 11.093            |  |                           |  |
| 10,500.0  | 7,162.0             | 10,213.7            | 6,929.0             | 60.7            | 59.3        | -79.25                | 3,194.1                           | -409.6     | 1,249.1              | 1,133.1               | 115.98                 | 10.770            |  |                           |  |
| 10,600.0  | 7,162.0             | 10,313.7            | 6,929.0             | 62.4            | 61.0        | -79.25                | 3,294.1                           | -409.4     | 1,248.9              | 1,129.6               | 119.35                 | 10.464            |  |                           |  |
| 10,700.0  | 7,162.0             | 10,413.7            | 6,929.0             | 64.1            | 62.7        | -79.25                | 3,394.1                           | -409.2     | 1,248.8              | 1,126.1               | 122.73                 | 10.175            |  |                           |  |
| 10,800.0  | 7,162.0             | 10,513.7            | 6,929.0             | 65.8            | 64.4        | -79.25                | 3,494.1                           | -409.1     | 1,248.6              | 1,122.5               | 126.11                 | 9.901             |  |                           |  |
| 10,900.0  | 7,162.0             | 10,613.7            | 6,929.0             | 67.4            | 66.1        | -79.24                | 3,594.1                           | -408.9     | 1,248.5              | 1,119.0               | 129.50                 | 9.641             |  |                           |  |
| 11,000.0  | 7,162.0             | 10,713.7            | 6,929.0             | 69.1            | 67.8        | -79.24                | 3,694.1                           | -408.7     | 1,248.3              | 1,115.4               | 132.88                 | 9.394             |  |                           |  |
| 11,100.0  | 7,162.0             | 10,813.7            | 6,929.0             | 70.8            | 69.5        | -79.24                | 3,794.1                           | -408.6     | 1,248.1              | 1,111.9               | 136.27                 | 9.159             |  |                           |  |
| 11,200.0  | 7,162.0             | 10,913.7            | 6,929.0             | 72.5            | 71.3        | -79.24                | 3,894.1                           | -408.4     | 1,248.0              | 1,108.3               | 139.66                 | 8.935             |  |                           |  |
| 11,300.0  | 7,162.0             | 11,013.7            | 6,929.0             | 74.2            | 73.0        | -79.24                | 3,994.1                           | -408.2     | 1,247.8              | 1,104.7               | 143.06                 | 8.722             |  |                           |  |
| 11,400.0  | 7,162.0             | 11,113.7            | 6,929.0             | 75.9            | 74.7        | -79.24                | 4,094.1                           | -408.1     | 1,247.6              | 1,101.2               | 146.46                 | 8.519             |  |                           |  |
| 11,500.0  | 7,162.0             | 11,213.7            | 6,929.0             | 77.6            | 76.4        | -79.24                | 4,194.1                           | -407.9     | 1,247.5              | 1,097.6               | 149.86                 | 8.324             |  |                           |  |
| 11,600.0  | 7,162.0             | 11,313.7            | 6,929.0             | 79.3            | 78.2        | -79.23                | 4,294.1                           | -407.7     | 1,247.3              | 1,094.0               | 153.26                 | 8.139             |  |                           |  |
| 11,700.0  | 7,162.0             | 11,413.7            | 6,929.0             | 81.0            | 79.9        | -79.23                | 4,394.1                           | -407.6     | 1,247.1              | 1,090.5               | 156.66                 | 7.961             |  |                           |  |
| 11,779.5  | 7,162.0             | 11,493.1            | 6,929.0             | 82.4            | 81.3        | -79.23                | 4,473.6                           | -407.4     | 1,247.0              | 1,087.6               | 159.37                 | 7.825             |  |                           |  |
| 11,801.7  | 7,162.0             | 11,508.6            | 6,929.0             | 82.7            | 81.5        | -79.23                | 4,489.0                           | -407.4     | 1,247.0              | 1,087.0               | 160.01                 | 7.793 SF          |  |                           |  |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4D-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft             |        |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |                    | Offset Well Error: | 0.0 ft |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    | Warning            |        |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |                    |        |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | -89.30                | 0.4                               | -29.9      | 29.9                 |                       |                        |                   |                    |                    |        |
| 100.0   | 100.0               | 100.0               | 100.0               | 0.1             | 0.1         | -89.30                | 0.4                               | -29.9      | 29.9                 | 29.7                  | 0.24                   | 122.478           |                    |                    |        |
| 200.0   | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -89.30                | 0.4                               | -29.9      | 29.9                 | 29.3                  | 0.59                   | 50.432            |                    |                    |        |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -89.30                | 0.4                               | -29.9      | 29.9                 | 29.0                  | 0.94                   | 31.754            |                    |                    |        |
| 350.0   | 350.0               | 350.0               | 350.0               | 0.6             | 0.6         | -89.30                | 0.4                               | -29.9      | 29.9                 | 28.8                  | 1.12                   | 26.792            | CC, ES             |                    |        |
| 400.0   | 400.0               | 400.0               | 400.0               | 0.6             | 0.6         | 159.36                | 0.1                               | -30.0      | 30.2                 | 28.9                  | 1.29                   | 23.357            |                    |                    |        |
| 500.0   | 500.0               | 499.8               | 499.8               | 0.8             | 0.8         | 157.38                | -1.6                              | -30.2      | 32.1                 | 30.4                  | 1.64                   | 19.545            |                    |                    |        |
| 600.0   | 599.9               | 599.6               | 599.5               | 1.0             | 1.0         | 154.06                | -5.0                              | -30.8      | 36.0                 | 34.0                  | 2.00                   | 18.042            |                    |                    |        |
| 700.0   | 699.8               | 699.2               | 699.0               | 1.2             | 1.2         | 150.27                | -10.1                             | -31.7      | 42.1                 | 39.8                  | 2.36                   | 17.834            |                    |                    |        |
| 800.0   | 799.5               | 798.9               | 798.5               | 1.4             | 1.4         | 147.65                | -16.0                             | -32.7      | 50.1                 | 47.4                  | 2.73                   | 18.326            |                    |                    |        |
| 900.0   | 899.2               | 898.4               | 897.8               | 1.6             | 1.6         | 146.68                | -21.9                             | -33.6      | 59.6                 | 56.5                  | 3.11                   | 19.150            |                    |                    |        |
| 1,000.0   | 998.6               | 997.8               | 997.1               | 1.8             | 1.8         | 146.75                | -27.8                             | -34.6      | 70.5                 | 67.0                  | 3.50                   | 20.178            |                    |                    |        |
| 1,100.0   | 1,097.9             | 1,097.0             | 1,096.1             | 2.1             | 2.0         | 147.44                | -33.7                             | -35.6      | 82.9                 | 79.1                  | 3.88                   | 21.351            |                    |                    |        |
| 1,200.0   | 1,196.9             | 1,196.0             | 1,194.9             | 2.4             | 2.2         | 148.48                | -39.6                             | -36.6      | 96.8                 | 92.6                  | 4.28                   | 22.637            |                    |                    |        |
| 1,300.0   | 1,295.7             | 1,294.8             | 1,293.5             | 2.7             | 2.4         | 149.69                | -45.4                             | -37.6      | 112.2                | 107.6                 | 4.67                   | 24.018            |                    |                    |        |
| 1,400.0   | 1,394.1             | 1,393.3             | 1,391.9             | 3.0             | 2.6         | 150.97                | -51.3                             | -38.5      | 129.2                | 124.1                 | 5.07                   | 25.482            |                    |                    |        |
| 1,437.9   | 1,431.4             | 1,430.6             | 1,429.1             | 3.1             | 2.6         | 151.46                | -53.5                             | -38.9      | 136.0                | 130.8                 | 5.22                   | 26.059            |                    |                    |        |
| 1,500.0   | 1,492.4             | 1,491.6             | 1,490.0             | 3.4             | 2.8         | 152.25                | -57.1                             | -39.5      | 147.4                | 141.9                 | 5.47                   | 26.955            |                    |                    |        |
| 1,600.0   | 1,590.6             | 1,589.9             | 1,588.0             | 3.7             | 3.0         | 153.29                | -62.9                             | -40.5      | 165.8                | 159.9                 | 5.87                   | 28.247            |                    |                    |        |
| 1,700.0   | 1,688.8             | 1,688.1             | 1,686.1             | 4.1             | 3.2         | 154.12                | -68.7                             | -41.5      | 184.3                | 178.0                 | 6.27                   | 29.381            |                    |                    |        |
| 1,800.0   | 1,787.0             | 1,786.4             | 1,784.2             | 4.4             | 3.4         | 154.80                | -74.6                             | -42.4      | 202.7                | 196.1                 | 6.67                   | 30.382            |                    |                    |        |
| 1,900.0   | 1,885.2             | 1,884.6             | 1,882.3             | 4.8             | 3.6         | 155.37                | -80.4                             | -43.4      | 221.2                | 214.2                 | 7.07                   | 31.273            |                    |                    |        |
| 2,000.0   | 1,983.4             | 1,982.9             | 1,980.3             | 5.2             | 3.8         | 155.85                | -86.2                             | -44.4      | 239.7                | 232.3                 | 7.48                   | 32.071            |                    |                    |        |
| 2,100.0   | 2,081.6             | 2,081.1             | 2,078.4             | 5.5             | 4.0         | 156.26                | -92.0                             | -45.4      | 258.3                | 250.4                 | 7.88                   | 32.790            |                    |                    |        |
| 2,200.0   | 2,179.8             | 2,179.4             | 2,176.5             | 5.9             | 4.2         | 156.61                | -97.9                             | -46.3      | 276.8                | 268.5                 | 8.28                   | 33.440            |                    |                    |        |
| 2,300.0   | 2,278.0             | 2,277.6             | 2,274.6             | 6.3             | 4.4         | 156.93                | -103.7                            | -47.3      | 295.4                | 286.7                 | 8.68                   | 34.030            |                    |                    |        |
| 2,400.0   | 2,376.2             | 2,375.9             | 2,372.6             | 6.6             | 4.6         | 157.20                | -109.5                            | -48.3      | 313.9                | 304.8                 | 9.08                   | 34.570            |                    |                    |        |
| 2,500.0   | 2,474.4             | 2,474.1             | 2,470.7             | 7.0             | 4.8         | 157.44                | -115.3                            | -49.2      | 332.5                | 323.0                 | 9.48                   | 35.064            |                    |                    |        |
| 2,600.0   | 2,572.6             | 2,572.4             | 2,568.8             | 7.4             | 5.0         | 157.66                | -121.1                            | -50.2      | 351.0                | 341.2                 | 9.88                   | 35.518            |                    |                    |        |
| 2,700.0   | 2,670.8             | 2,670.6             | 2,666.9             | 7.7             | 5.2         | 157.86                | -127.0                            | -51.2      | 369.6                | 359.3                 | 10.28                  | 35.938            |                    |                    |        |
| 2,800.0   | 2,769.0             | 2,768.9             | 2,764.9             | 8.1             | 5.4         | 158.04                | -132.8                            | -52.2      | 388.2                | 377.5                 | 10.69                  | 36.326            |                    |                    |        |
| 2,900.0   | 2,867.2             | 2,867.2             | 2,863.0             | 8.5             | 5.6         | 158.20                | -138.6                            | -53.1      | 406.8                | 395.7                 | 11.09                  | 36.686            |                    |                    |        |
| 3,000.0   | 2,965.4             | 2,965.4             | 2,961.1             | 8.9             | 5.7         | 158.34                | -144.4                            | -54.1      | 425.3                | 413.8                 | 11.49                  | 37.021            |                    |                    |        |
| 3,100.0   | 3,063.6             | 3,063.7             | 3,059.2             | 9.2             | 5.9         | 158.48                | -150.3                            | -55.1      | 443.9                | 432.0                 | 11.89                  | 37.334            |                    |                    |        |
| 3,200.0   | 3,161.8             | 3,161.9             | 3,157.2             | 9.6             | 6.1         | 158.60                | -156.1                            | -56.0      | 462.5                | 450.2                 | 12.29                  | 37.627            |                    |                    |        |
| 3,300.0   | 3,260.0             | 3,260.2             | 3,255.3             | 10.0            | 6.3         | 158.72                | -161.9                            | -57.0      | 481.1                | 468.4                 | 12.69                  | 37.901            |                    |                    |        |
| 3,400.0   | 3,358.2             | 3,358.4             | 3,353.4             | 10.4            | 6.5         | 158.82                | -167.7                            | -58.0      | 499.7                | 486.6                 | 13.09                  | 38.158            |                    |                    |        |
| 3,500.0   | 3,456.4             | 3,456.7             | 3,451.5             | 10.7            | 6.7         | 158.92                | -173.6                            | -59.0      | 518.3                | 504.8                 | 13.50                  | 38.400            |                    |                    |        |
| 3,600.0   | 3,554.6             | 3,554.9             | 3,549.6             | 11.1            | 6.9         | 159.01                | -179.4                            | -59.9      | 536.9                | 523.0                 | 13.90                  | 38.629            |                    |                    |        |
| 3,700.0   | 3,652.8             | 3,653.2             | 3,647.6             | 11.5            | 7.1         | 159.10                | -185.2                            | -60.9      | 555.5                | 541.2                 | 14.30                  | 38.844            |                    |                    |        |
| 3,800.0   | 3,751.0             | 3,751.4             | 3,745.7             | 11.9            | 7.3         | 159.18                | -191.0                            | -61.9      | 574.0                | 559.3                 | 14.70                  | 39.048            |                    |                    |        |
| 3,900.0   | 3,849.2             | 3,849.7             | 3,843.8             | 12.2            | 7.5         | 159.25                | -196.8                            | -62.9      | 592.6                | 577.5                 | 15.10                  | 39.241            |                    |                    |        |
| 4,000.0   | 3,947.4             | 3,947.9             | 3,941.9             | 12.6            | 7.7         | 159.32                | -202.7                            | -63.8      | 611.2                | 595.7                 | 15.50                  | 39.424            |                    |                    |        |
| 4,100.0   | 4,045.6             | 4,046.2             | 4,039.9             | 13.0            | 7.9         | 159.39                | -208.5                            | -64.8      | 629.8                | 613.9                 | 15.91                  | 39.598            |                    |                    |        |
| 4,200.0   | 4,143.8             | 4,144.4             | 4,138.0             | 13.4            | 8.1         | 159.45                | -214.3                            | -65.8      | 648.4                | 632.1                 | 16.31                  | 39.763            |                    |                    |        |
| 4,300.0   | 4,242.0             | 4,242.7             | 4,236.1             | 13.7            | 8.3         | 159.51                | -220.1                            | -66.7      | 667.0                | 650.3                 | 16.71                  | 39.920            |                    |                    |        |
| 4,400.0   | 4,340.2             | 4,341.0             | 4,334.2             | 14.1            | 8.5         | 159.57                | -226.0                            | -67.7      | 685.6                | 668.5                 | 17.11                  | 40.070            |                    |                    |        |
| 4,500.0   | 4,438.4             | 4,439.2             | 4,432.2             | 14.5            | 8.7         | 159.62                | -231.8                            | -68.7      | 704.2                | 686.7                 | 17.51                  | 40.213            |                    |                    |        |
| 4,600.0   | 4,536.6             | 4,537.5             | 4,530.3             | 14.9            | 8.9         | 159.67                | -237.6                            | -69.7      | 722.8                | 704.9                 | 17.91                  | 40.350            |                    |                    |        |
| 4,700.0   | 4,634.8             | 4,635.7             | 4,628.4             | 15.2            | 9.1         | 159.72                | -243.4                            | -70.6      | 741.4                | 723.1                 | 18.32                  | 40.481            |                    |                    |        |
| 4,800.0   | 4,733.0             | 4,734.0             | 4,726.5             | 15.6            | 9.3         | 159.76                | -249.3                            | -71.6      | 760.0                | 741.3                 | 18.72                  | 40.606            |                    |                    |        |
| 4,900.0   | 4,831.2             | 4,832.2             | 4,824.5             | 16.0            | 9.5         | 159.80                | -255.1                            | -72.6      | 778.6                | 759.5                 | 19.12                  | 40.726            |                    |                    |        |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4D-20H-O264 - 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<br>Uncertainty<br>Axis | Separation<br>Factor | Warning            |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                              |                      |                    |        |
| 4,988.9   | 4,918.6                   | 4,919.6                   | 4,911.8                   | 16.3              | 9.7            | 159.84                      | -260.3                                  | -73.4         | 795.2                      | 775.7                       | 19.48                        | 40.828               |                    |        |
| 5,000.0   | 4,929.5                   | 4,930.5                   | 4,922.6                   | 16.4              | 9.7            | 159.85                      | -260.9                                  | -73.6         | 797.2                      | 777.7                       | 19.52                        | 40.836               |                    |        |
| 5,100.0   | 5,027.9                   | 5,028.9                   | 5,020.9                   | 16.7              | 9.9            | 159.93                      | -266.7                                  | -74.5         | 814.8                      | 794.9                       | 19.94                        | 40.869               |                    |        |
| 5,200.0   | 5,126.5                   | 5,127.6                   | 5,119.4                   | 17.0              | 10.1           | 159.95                      | -272.6                                  | -75.5         | 830.8                      | 810.5                       | 20.35                        | 40.826               |                    |        |
| 5,300.0   | 5,225.5                   | 5,226.6                   | 5,218.2                   | 17.3              | 10.3           | 159.93                      | -278.4                                  | -76.5         | 845.2                      | 824.5                       | 20.76                        | 40.711               |                    |        |
| 5,400.0   | 5,324.7                   | 5,325.7                   | 5,317.2                   | 17.6              | 10.5           | 159.87                      | -284.3                                  | -77.5         | 858.0                      | 836.8                       | 21.17                        | 40.529               |                    |        |
| 5,500.0   | 5,424.1                   | 5,425.1                   | 5,416.3                   | 17.8              | 10.8           | 159.76                      | -290.2                                  | -78.4         | 869.1                      | 847.5                       | 21.57                        | 40.284               |                    |        |
| 5,600.0   | 5,523.7                   | 5,524.6                   | 5,515.7                   | 18.1              | 11.0           | 159.62                      | -296.1                                  | -79.4         | 878.6                      | 856.7                       | 21.98                        | 39.980               |                    |        |
| 5,700.0   | 5,623.4                   | 5,624.2                   | 5,615.1                   | 18.2              | 11.2           | 159.43                      | -302.0                                  | -80.4         | 886.5                      | 864.2                       | 22.38                        | 39.621               |                    |        |
| 5,800.0   | 5,723.2                   | 5,725.5                   | 5,716.2                   | 18.4              | 11.4           | 159.21                      | -307.7                                  | -81.4         | 892.8                      | 870.0                       | 22.77                        | 39.216               |                    |        |
| 5,900.0   | 5,823.2                   | 5,827.9                   | 5,818.5                   | 18.6              | 11.5           | 159.06                      | -311.8                                  | -82.1         | 897.1                      | 874.0                       | 23.13                        | 38.794               |                    |        |
| 6,000.0   | 5,923.1                   | 5,930.5                   | 5,921.1                   | 18.7              | 11.7           | 158.97                      | -314.1                                  | -82.4         | 899.6                      | 876.1                       | 23.45                        | 38.354               |                    |        |
| 6,076.9   | 6,000.0                   | 6,009.4                   | 6,000.0                   | 18.7              | 11.8           | -89.98                      | -314.6                                  | -82.5         | 900.1                      | 876.4                       | 23.69                        | 37.999               |                    |        |
| 6,100.0   | 6,023.1                   | 6,032.5                   | 6,023.1                   | 18.8              | 11.9           | -89.98                      | -314.6                                  | -82.5         | 900.1                      | 876.4                       | 23.76                        | 37.885               |                    |        |
| 6,200.0   | 6,123.1                   | 6,132.5                   | 6,123.1                   | 18.9              | 12.0           | -89.98                      | -314.6                                  | -82.5         | 900.1                      | 876.1                       | 24.07                        | 37.397               |                    |        |
| 6,300.0   | 6,223.1                   | 6,232.5                   | 6,223.1                   | 19.0              | 12.2           | -89.98                      | -314.6                                  | -82.5         | 900.1                      | 875.7                       | 24.38                        | 36.920               |                    |        |
| 6,400.0   | 6,323.1                   | 6,332.5                   | 6,323.1                   | 19.1              | 12.3           | -89.98                      | -314.6                                  | -82.5         | 900.1                      | 875.4                       | 24.69                        | 36.453               |                    |        |
| 6,500.0   | 6,423.1                   | 6,432.5                   | 6,423.1                   | 19.2              | 12.5           | -89.98                      | -314.6                                  | -82.5         | 900.1                      | 875.1                       | 25.01                        | 35.996               |                    |        |
| 6,539.1   | 6,462.2                   | 6,471.6                   | 6,462.2                   | 19.2              | 12.5           | -89.97                      | -314.5                                  | -82.5         | 900.1                      | 875.0                       | 25.12                        | 35.832               |                    |        |
| 6,600.0   | 6,523.1                   | 6,532.1                   | 6,522.5                   | 19.3              | 12.6           | -89.68                      | -309.9                                  | -82.5         | 900.1                      | 874.9                       | 25.23                        | 35.681               |                    |        |
| 6,665.9   | 6,589.0                   | 6,595.7                   | 6,585.0                   | 19.3              | 12.6           | -88.94                      | -298.3                                  | -82.5         | 900.3                      | 875.0                       | 25.25                        | 35.648               |                    |        |
| 6,700.0   | 6,623.1                   | 6,627.6                   | 6,615.8                   | 19.4              | 12.6           | -88.44                      | -289.8                                  | -82.5         | 900.5                      | 875.3                       | 25.23                        | 35.697               |                    |        |
| 6,750.0   | 6,672.8                   | 6,673.8                   | 6,659.3                   | 19.4              | 12.5           | -87.72                      | -274.6                                  | -82.5         | 900.9                      | 875.7                       | 25.15                        | 35.825               |                    |        |
| 6,800.0   | 6,721.9                   | 6,719.1                   | 6,700.8                   | 19.4              | 12.5           | -87.03                      | -256.3                                  | -82.5         | 901.4                      | 876.4                       | 25.04                        | 36.001               |                    |        |
| 6,850.0   | 6,770.0                   | 6,763.8                   | 6,740.2                   | 19.4              | 12.4           | -86.35                      | -235.2                                  | -82.5         | 902.0                      | 877.1                       | 24.91                        | 36.206               |                    |        |
| 6,900.0   | 6,816.7                   | 6,807.9                   | 6,777.2                   | 19.3              | 12.4           | -85.71                      | -211.4                                  | -82.5         | 902.8                      | 878.0                       | 24.78                        | 36.424               |                    |        |
| 6,950.0   | 6,861.6                   | 6,850.0                   | 6,810.8                   | 19.3              | 12.3           | -85.11                      | -186.0                                  | -82.5         | 903.6                      | 878.9                       | 24.67                        | 36.631               |                    |        |
| 7,000.0   | 6,904.5                   | 6,894.2                   | 6,844.0                   | 19.3              | 12.3           | -84.52                      | -156.7                                  | -82.5         | 904.4                      | 879.8                       | 24.57                        | 36.815               |                    |        |
| 7,050.0   | 6,945.0                   | 6,936.7                   | 6,873.7                   | 19.2              | 12.2           | -83.98                      | -126.4                                  | -82.5         | 905.3                      | 880.8                       | 24.50                        | 36.948               |                    |        |
| 7,100.0   | 6,982.8                   | 6,978.7                   | 6,900.7                   | 19.2              | 12.2           | -83.48                      | -94.2                                   | -82.5         | 906.1                      | 881.6                       | 24.48                        | 37.016               |                    |        |
| 7,150.0   | 7,017.6                   | 7,020.4                   | 6,925.1                   | 19.2              | 12.3           | -83.02                      | -60.5                                   | -82.5         | 907.0                      | 882.5                       | 24.51                        | 37.006               |                    |        |
| 7,200.0   | 7,049.1                   | 7,061.7                   | 6,946.9                   | 19.2              | 12.3           | -82.61                      | -25.3                                   | -82.5         | 907.8                      | 883.2                       | 24.60                        | 36.905               |                    |        |
| 7,250.0   | 7,077.1                   | 7,100.0                   | 6,964.7                   | 19.2              | 12.4           | -82.26                      | 8.6                                     | -82.5         | 908.5                      | 883.8                       | 24.74                        | 36.719               |                    |        |
| 7,300.0   | 7,101.4                   | 7,143.5                   | 6,982.2                   | 19.2              | 12.5           | -81.93                      | 48.4                                    | -82.5         | 909.2                      | 884.2                       | 24.98                        | 36.399               |                    |        |
| 7,350.0   | 7,121.8                   | 7,184.1                   | 6,995.7                   | 19.3              | 12.7           | -81.67                      | 86.7                                    | -82.5         | 909.8                      | 884.5                       | 25.28                        | 35.985               |                    |        |
| 7,400.0   | 7,138.1                   | 7,224.6                   | 7,006.4                   | 19.4              | 12.9           | -81.46                      | 125.7                                   | -82.5         | 910.2                      | 884.6                       | 25.66                        | 35.477               |                    |        |
| 7,450.0   | 7,150.3                   | 7,264.9                   | 7,014.4                   | 19.6              | 13.1           | -81.31                      | 165.2                                   | -82.5         | 910.6                      | 884.5                       | 26.10                        | 34.883               |                    |        |
| 7,500.0   | 7,158.2                   | 7,305.2                   | 7,019.5                   | 19.8              | 13.3           | -81.21                      | 205.1                                   | -82.5         | 910.8                      | 884.2                       | 26.62                        | 34.216               |                    |        |
| 7,550.0   | 7,161.8                   | 7,350.0                   | 7,021.9                   | 20.0              | 13.7           | -81.16                      | 249.9                                   | -82.5         | 911.0                      | 883.7                       | 27.24                        | 33.442               |                    |        |
| 7,555.2   | 7,161.9                   | 7,350.0                   | 7,021.9                   | 20.1              | 13.7           | -81.16                      | 249.9                                   | -82.5         | 910.9                      | 883.7                       | 27.27                        | 33.400               |                    |        |
| 7,565.9   | 7,162.0                   | 7,358.4                   | 7,022.0                   | 20.1              | 13.7           | -81.16                      | 258.3                                   | -82.5         | 910.9                      | 883.5                       | 27.41                        | 33.238               |                    |        |
| 7,577.7   | 7,162.0                   | 7,369.8                   | 7,022.0                   | 20.2              | 13.8           | -81.16                      | 269.7                                   | -82.5         | 910.9                      | 883.4                       | 27.59                        | 33.012               |                    |        |
| 7,600.0   | 7,162.0                   | 7,392.2                   | 7,022.0                   | 20.3              | 14.0           | -81.16                      | 292.0                                   | -82.5         | 910.9                      | 883.0                       | 27.96                        | 32.585               |                    |        |
| 7,700.0   | 7,162.0                   | 7,492.2                   | 7,022.0                   | 20.9              | 14.9           | -81.16                      | 392.0                                   | -82.5         | 910.9                      | 881.2                       | 29.79                        | 30.584               |                    |        |
| 7,800.0   | 7,162.0                   | 7,592.2                   | 7,022.0                   | 21.7              | 16.0           | -81.16                      | 492.0                                   | -82.5         | 910.9                      | 879.1                       | 31.88                        | 28.570               |                    |        |
| 7,900.0   | 7,162.0                   | 7,692.2                   | 7,022.0                   | 22.6              | 17.2           | -81.16                      | 592.0                                   | -82.5         | 910.9                      | 876.7                       | 34.21                        | 26.631               |                    |        |
| 8,000.0   | 7,162.0                   | 7,792.2                   | 7,022.0                   | 23.6              | 18.5           | -81.16                      | 692.0                                   | -82.5         | 910.9                      | 874.2                       | 36.71                        | 24.815               |                    |        |
| 8,100.0   | 7,162.0                   | 7,892.2                   | 7,022.0                   | 24.6              | 19.8           | -81.16                      | 792.0                                   | -82.5         | 910.9                      | 871.6                       | 39.36                        | 23.144               |                    |        |
| 8,200.0   | 7,162.0                   | 7,992.2                   | 7,022.0                   | 25.8              | 21.2           | -81.16                      | 892.0                                   | -82.5         | 910.9                      | 868.8                       | 42.13                        | 21.623               |                    |        |
| 8,300.0   | 7,162.0                   | 8,092.2                   | 7,022.0                   | 27.0              | 22.7           | -81.16                      | 992.0                                   | -82.5         | 910.9                      | 865.9                       | 44.99                        | 20.246               |                    |        |
| 8,400.0   | 7,162.0                   | 8,192.2                   | 7,022.0                   | 28.2              | 24.2           | -81.16                      | 1,092.0                                 | -82.5         | 910.9                      | 863.0                       | 47.94                        | 19.002               |                    |        |
| 8,500.0   | 7,162.0                   | 8,292.2                   | 7,022.0                   | 29.6              | 25.7           | -81.16                      | 1,192.0                                 | -82.5         | 910.9                      | 860.0                       | 50.95                        | 17.879               |                    |        |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design       |                     | S20-T2N-R64W (Dale) - Dale 4D-20H-O264 - HZ - Plan #1 |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Site Error: |  | 0.0 ft  |
|---------------------|---------------------|---|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|--------------------|--|---------|
| Survey Program:     |                     | 0-Geolink MWD   |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Well Error: |  | 0.0 ft  |
| Reference           |                     | Offset  |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                    |  | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft)                                   | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor  |  |         |
| 8,600.0             | 7,162.0             | 8,392.2   | 7,022.0             | 30.9            | 27.2        | -81.16                | 1,292.0                           | -82.5      | 910.9                | 856.9                 | 54.01                  | 16.865             |  |         |
| 8,700.0             | 7,162.0             | 8,492.2   | 7,022.0             | 32.3            | 28.8        | -81.16                | 1,392.0                           | -82.5      | 910.9                | 853.8                 | 57.13                  | 15.946             |  |         |
| 8,800.0             | 7,162.0             | 8,592.2   | 7,022.0             | 33.7            | 30.4        | -81.16                | 1,492.0                           | -82.5      | 910.9                | 850.7                 | 60.28                  | 15.113             |  |         |
| 8,900.0             | 7,162.0             | 8,692.2   | 7,022.0             | 35.2            | 32.0        | -81.16                | 1,592.0                           | -82.5      | 910.9                | 847.5                 | 63.46                  | 14.355             |  |         |
| 9,000.0             | 7,162.0             | 8,792.2   | 7,022.0             | 36.7            | 33.6        | -81.16                | 1,692.0                           | -82.5      | 910.9                | 844.3                 | 66.67                  | 13.663             |  |         |
| 9,100.0             | 7,162.0             | 8,892.2   | 7,022.0             | 38.2            | 35.3        | -81.16                | 1,792.0                           | -82.5      | 910.9                | 841.0                 | 69.91                  | 13.031             |  |         |
|                     |                     |   |                     |                 |             |                       |                                   |            |                      |                       |                        |                    |  |         |
| 9,200.0             | 7,162.0             | 8,992.2   | 7,022.0             | 39.7            | 36.9        | -81.16                | 1,892.0                           | -82.5      | 910.9                | 837.8                 | 73.16                  | 12.451             |  |         |
| 9,300.0             | 7,162.0             | 9,092.2   | 7,022.0             | 41.3            | 38.6        | -81.16                | 1,992.0                           | -82.5      | 910.9                | 834.5                 | 76.44                  | 11.917             |  |         |
| 9,400.0             | 7,162.0             | 9,192.2   | 7,022.0             | 42.8            | 40.3        | -81.16                | 2,092.0                           | -82.5      | 910.9                | 831.2                 | 79.73                  | 11.425             |  |         |
| 9,500.0             | 7,162.0             | 9,292.2   | 7,022.0             | 44.4            | 41.9        | -81.16                | 2,192.0                           | -82.5      | 910.9                | 827.9                 | 83.04                  | 10.970             |  |         |
| 9,600.0             | 7,162.0             | 9,392.2   | 7,022.0             | 46.0            | 43.6        | -81.16                | 2,292.0                           | -82.5      | 910.9                | 824.6                 | 86.36                  | 10.549             |  |         |
|                     |                     |   |                     |                 |             |                       |                                   |            |                      |                       |                        |                    |  |         |
| 9,700.0             | 7,162.0             | 9,492.2   | 7,022.0             | 47.6            | 45.3        | -81.16                | 2,392.0                           | -82.5      | 910.9                | 821.2                 | 89.69                  | 10.157             |  |         |
| 9,800.0             | 7,162.0             | 9,592.2   | 7,022.0             | 49.2            | 47.0        | -81.16                | 2,492.0                           | -82.5      | 910.9                | 817.9                 | 93.03                  | 9.792              |  |         |
| 9,900.0             | 7,162.0             | 9,692.2   | 7,022.0             | 50.9            | 48.7        | -81.16                | 2,592.0                           | -82.5      | 910.9                | 814.6                 | 96.38                  | 9.452              |  |         |
| 10,000.0            | 7,162.0             | 9,792.2   | 7,022.0             | 52.5            | 50.4        | -81.16                | 2,692.0                           | -82.5      | 910.9                | 811.2                 | 99.73                  | 9.134              |  |         |
| 10,100.0            | 7,162.0             | 9,892.2   | 7,022.0             | 54.1            | 52.1        | -81.16                | 2,792.0                           | -82.5      | 910.9                | 807.8                 | 103.10                 | 8.836              |  |         |
|                     |                     |   |                     |                 |             |                       |                                   |            |                      |                       |                        |                    |  |         |
| 10,200.0            | 7,162.0             | 9,992.2   | 7,022.0             | 55.8            | 53.8        | -81.16                | 2,892.0                           | -82.5      | 910.9                | 804.5                 | 106.47                 | 8.556              |  |         |
| 10,300.0            | 7,162.0             | 10,092.2  | 7,022.0             | 57.4            | 55.5        | -81.16                | 2,992.0                           | -82.5      | 910.9                | 801.1                 | 109.84                 | 8.293              |  |         |
| 10,400.0            | 7,162.0             | 10,192.2  | 7,022.0             | 59.1            | 57.2        | -81.16                | 3,092.0                           | -82.5      | 910.9                | 797.7                 | 113.23                 | 8.045              |  |         |
| 10,500.0            | 7,162.0             | 10,292.2  | 7,022.0             | 60.7            | 58.9        | -81.16                | 3,192.0                           | -82.5      | 910.9                | 794.3                 | 116.61                 | 7.812              |  |         |
| 10,600.0            | 7,162.0             | 10,392.2  | 7,022.0             | 62.4            | 60.6        | -81.16                | 3,292.0                           | -82.5      | 910.9                | 790.9                 | 120.01                 | 7.591              |  |         |
|                     |                     |   |                     |                 |             |                       |                                   |            |                      |                       |                        |                    |  |         |
| 10,700.0            | 7,162.0             | 10,492.2  | 7,022.0             | 64.1            | 62.4        | -81.16                | 3,392.0                           | -82.5      | 910.9                | 787.5                 | 123.40                 | 7.382              |  |         |
| 10,800.0            | 7,162.0             | 10,592.2  | 7,022.0             | 65.8            | 64.1        | -81.16                | 3,492.0                           | -82.5      | 910.9                | 784.1                 | 126.80                 | 7.184              |  |         |
| 10,900.0            | 7,162.0             | 10,692.2  | 7,022.0             | 67.4            | 65.8        | -81.16                | 3,592.0                           | -82.5      | 910.9                | 780.7                 | 130.20                 | 6.996              |  |         |
| 11,000.0            | 7,162.0             | 10,792.2  | 7,022.0             | 69.1            | 67.5        | -81.16                | 3,692.0                           | -82.5      | 910.9                | 777.3                 | 133.61                 | 6.818              |  |         |
| 11,100.0            | 7,162.0             | 10,892.2  | 7,022.0             | 70.8            | 69.3        | -81.16                | 3,792.0                           | -82.5      | 910.9                | 773.9                 | 137.02                 | 6.648              |  |         |
|                     |                     |   |                     |                 |             |                       |                                   |            |                      |                       |                        |                    |  |         |
| 11,200.0            | 7,162.0             | 10,992.2  | 7,022.0             | 72.5            | 71.0        | -81.16                | 3,892.0                           | -82.5      | 910.9                | 770.5                 | 140.43                 | 6.487              |  |         |
| 11,300.0            | 7,162.0             | 11,092.2  | 7,022.0             | 74.2            | 72.7        | -81.16                | 3,992.0                           | -82.5      | 910.9                | 767.1                 | 143.85                 | 6.333              |  |         |
| 11,400.0            | 7,162.0             | 11,192.2  | 7,022.0             | 75.9            | 74.4        | -81.16                | 4,092.0                           | -82.5      | 910.9                | 763.7                 | 147.27                 | 6.186              |  |         |
| 11,500.0            | 7,162.0             | 11,292.2  | 7,022.0             | 77.6            | 76.2        | -81.16                | 4,192.0                           | -82.5      | 910.9                | 760.2                 | 150.69                 | 6.045              |  |         |
| 11,600.0            | 7,162.0             | 11,392.2  | 7,022.0             | 79.3            | 77.9        | -81.16                | 4,292.0                           | -82.5      | 910.9                | 756.8                 | 154.11                 | 5.911              |  |         |
|                     |                     |   |                     |                 |             |                       |                                   |            |                      |                       |                        |                    |  |         |
| 11,700.0            | 7,162.0             | 11,492.2  | 7,022.0             | 81.0            | 79.6        | -81.16                | 4,392.0                           | -82.5      | 910.9                | 753.4                 | 157.53                 | 5.782              |  |         |
| 11,771.8            | 7,162.0             | 11,563.9  | 7,022.0             | 82.2            | 80.9        | -81.16                | 4,463.8                           | -82.5      | 910.9                | 750.9                 | 159.99                 | 5.694              |  |         |
| 11,801.7            | 7,162.0             | 11,590.6  | 7,022.0             | 82.7            | 81.3        | -81.16                | 4,490.5                           | -82.5      | 910.9                | 750.0                 | 160.96                 | 5.659 SF           |  |         |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4E-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: O-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |         |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | -90.11                | 0.0                               | -22.7      | 22.7                 |                       |                        |                   |                    |         |
| 100.0   | 100.0               | 100.0               | 100.0               | 0.1             | 0.1         | -90.11                | 0.0                               | -22.7      | 22.7                 | 22.4                  | 0.24                   | 92.710            |                    |         |
| 200.0   | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -90.11                | 0.0                               | -22.7      | 22.7                 | 22.1                  | 0.59                   | 38.175            |                    |         |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -90.11                | 0.0                               | -22.7      | 22.7                 | 21.7                  | 0.94                   | 24.036            |                    |         |
| 350.0   | 350.0               | 350.0               | 350.0               | 0.6             | 0.6         | -90.11                | 0.0                               | -22.7      | 22.7                 | 21.5                  | 1.12                   | 20.280 CC, ES     |                    |         |
| 400.0   | 400.0               | 400.0               | 400.0               | 0.6             | 0.6         | 159.02                | 0.0                               | -22.7      | 22.9                 | 21.6                  | 1.29                   | 17.698            |                    |         |
| 500.0   | 500.0               | 500.3               | 500.2               | 0.8             | 0.8         | 158.90                | -0.7                              | -22.1      | 23.9                 | 22.3                  | 1.64                   | 14.579            |                    |         |
| 600.0   | 599.9               | 600.5               | 600.5               | 1.0             | 1.0         | 157.16                | -2.8                              | -20.4      | 25.5                 | 23.5                  | 1.99                   | 12.807            |                    |         |
| 700.0   | 699.8               | 700.7               | 700.6               | 1.2             | 1.2         | 154.18                | -6.1                              | -17.6      | 27.7                 | 25.4                  | 2.35                   | 11.783            |                    |         |
| 800.0   | 799.5               | 801.0               | 800.6               | 1.4             | 1.4         | 150.42                | -10.9                             | -13.7      | 30.6                 | 27.9                  | 2.72                   | 11.225            |                    |         |
| 900.0   | 899.2               | 901.0               | 900.4               | 1.6             | 1.6         | 146.60                | -16.8                             | -8.9       | 34.3                 | 31.2                  | 3.11                   | 11.015            |                    |         |
| 1,000.0   | 998.6               | 1,000.9             | 999.9               | 1.8             | 1.8         | 144.72                | -22.9                             | -3.9       | 39.5                 | 35.9                  | 3.51                   | 11.227            |                    |         |
| 1,100.0   | 1,097.9             | 1,100.7             | 1,099.4             | 2.1             | 2.0         | 144.56                | -29.0                             | 1.1        | 46.1                 | 42.1                  | 3.92                   | 11.745            |                    |         |
| 1,200.0   | 1,196.9             | 1,200.3             | 1,198.8             | 2.4             | 2.2         | 145.50                | -35.1                             | 6.1        | 54.1                 | 49.7                  | 4.33                   | 12.492            |                    |         |
| 1,300.0   | 1,295.7             | 1,299.9             | 1,298.0             | 2.7             | 2.4         | 147.06                | -41.1                             | 11.1       | 63.6                 | 58.8                  | 4.73                   | 13.424            |                    |         |
| 1,400.0   | 1,394.1             | 1,399.2             | 1,397.0             | 3.0             | 2.6         | 148.90                | -47.2                             | 16.1       | 74.6                 | 69.4                  | 5.14                   | 14.517            |                    |         |
| 1,437.9   | 1,431.4             | 1,436.9             | 1,434.6             | 3.1             | 2.7         | 149.63                | -49.5                             | 18.0       | 79.1                 | 73.9                  | 5.29                   | 14.970            |                    |         |
| 1,500.0   | 1,492.4             | 1,498.4             | 1,495.9             | 3.4             | 2.9         | 150.75                | -53.2                             | 21.1       | 86.8                 | 81.3                  | 5.53                   | 15.691            |                    |         |
| 1,600.0   | 1,590.6             | 1,597.6             | 1,594.8             | 3.7             | 3.1         | 152.19                | -59.3                             | 26.1       | 99.3                 | 93.4                  | 5.93                   | 16.734            |                    |         |
| 1,700.0   | 1,688.8             | 1,696.8             | 1,693.7             | 4.1             | 3.3         | 153.31                | -65.4                             | 31.0       | 111.8                | 105.5                 | 6.33                   | 17.652            |                    |         |
| 1,800.0   | 1,787.0             | 1,796.0             | 1,792.6             | 4.4             | 3.5         | 154.21                | -71.4                             | 36.0       | 124.4                | 117.6                 | 6.73                   | 18.466            |                    |         |
| 1,900.0   | 1,885.2             | 1,895.2             | 1,891.5             | 4.8             | 3.7         | 154.94                | -77.5                             | 41.0       | 136.9                | 129.8                 | 7.13                   | 19.192            |                    |         |
| 2,000.0   | 1,983.4             | 1,994.4             | 1,990.4             | 5.2             | 3.9         | 155.55                | -83.5                             | 46.0       | 149.5                | 142.0                 | 7.53                   | 19.842            |                    |         |
| 2,100.0   | 2,081.6             | 2,093.6             | 2,089.2             | 5.5             | 4.2         | 156.06                | -89.6                             | 50.9       | 162.1                | 154.2                 | 7.94                   | 20.428            |                    |         |
| 2,200.0   | 2,179.8             | 2,192.8             | 2,188.1             | 5.9             | 4.4         | 156.50                | -95.6                             | 55.9       | 174.7                | 166.4                 | 8.34                   | 20.959            |                    |         |
| 2,300.0   | 2,278.0             | 2,292.0             | 2,287.0             | 6.3             | 4.6         | 156.88                | -101.7                            | 60.9       | 187.3                | 178.6                 | 8.74                   | 21.442            |                    |         |
| 2,400.0   | 2,376.2             | 2,391.2             | 2,385.9             | 6.6             | 4.8         | 157.21                | -107.7                            | 65.9       | 200.0                | 190.8                 | 9.14                   | 21.883            |                    |         |
| 2,500.0   | 2,474.4             | 2,490.4             | 2,484.8             | 7.0             | 5.0         | 157.51                | -113.8                            | 70.9       | 212.6                | 203.1                 | 9.54                   | 22.287            |                    |         |
| 2,600.0   | 2,572.6             | 2,589.6             | 2,583.7             | 7.4             | 5.3         | 157.77                | -119.8                            | 75.8       | 225.2                | 215.3                 | 9.94                   | 22.659            |                    |         |
| 2,700.0   | 2,670.8             | 2,688.8             | 2,682.5             | 7.7             | 5.5         | 158.00                | -125.9                            | 80.8       | 237.9                | 227.5                 | 10.34                  | 23.003            |                    |         |
| 2,800.0   | 2,769.0             | 2,788.0             | 2,781.4             | 8.1             | 5.7         | 158.21                | -131.9                            | 85.8       | 250.5                | 239.8                 | 10.74                  | 23.320            |                    |         |
| 2,900.0   | 2,867.2             | 2,887.1             | 2,880.3             | 8.5             | 5.9         | 158.40                | -138.0                            | 90.8       | 263.2                | 252.0                 | 11.14                  | 23.616            |                    |         |
| 3,000.0   | 2,965.4             | 2,986.3             | 2,979.2             | 8.9             | 6.1         | 158.57                | -144.0                            | 95.7       | 275.8                | 264.3                 | 11.55                  | 23.890            |                    |         |
| 3,100.0   | 3,063.6             | 3,085.5             | 3,078.1             | 9.2             | 6.4         | 158.72                | -150.1                            | 100.7      | 288.5                | 276.5                 | 11.95                  | 24.147            |                    |         |
| 3,200.0   | 3,161.8             | 3,184.7             | 3,177.0             | 9.6             | 6.6         | 158.87                | -156.1                            | 105.7      | 301.1                | 288.8                 | 12.35                  | 24.387            |                    |         |
| 3,300.0   | 3,260.0             | 3,283.9             | 3,275.8             | 10.0            | 6.8         | 159.00                | -162.2                            | 110.7      | 313.8                | 301.0                 | 12.75                  | 24.611            |                    |         |
| 3,400.0   | 3,358.2             | 3,383.1             | 3,374.7             | 10.4            | 7.0         | 159.12                | -168.2                            | 115.6      | 326.4                | 313.3                 | 13.15                  | 24.823            |                    |         |
| 3,500.0   | 3,456.4             | 3,482.3             | 3,473.6             | 10.7            | 7.2         | 159.23                | -174.3                            | 120.6      | 339.1                | 325.5                 | 13.55                  | 25.021            |                    |         |
| 3,600.0   | 3,554.6             | 3,581.5             | 3,572.5             | 11.1            | 7.5         | 159.34                | -180.3                            | 125.6      | 351.8                | 337.8                 | 13.95                  | 25.208            |                    |         |
| 3,700.0   | 3,652.8             | 3,680.7             | 3,671.4             | 11.5            | 7.7         | 159.43                | -186.4                            | 130.6      | 364.4                | 350.1                 | 14.36                  | 25.385            |                    |         |
| 3,800.0   | 3,751.0             | 3,779.9             | 3,770.3             | 11.9            | 7.9         | 159.52                | -192.4                            | 135.5      | 377.1                | 362.3                 | 14.76                  | 25.552            |                    |         |
| 3,900.0   | 3,849.2             | 3,879.1             | 3,869.2             | 12.2            | 8.1         | 159.61                | -198.5                            | 140.5      | 389.7                | 374.6                 | 15.16                  | 25.711            |                    |         |
| 4,000.0   | 3,947.4             | 3,978.3             | 3,968.0             | 12.6            | 8.3         | 159.69                | -204.5                            | 145.5      | 402.4                | 386.9                 | 15.56                  | 25.861            |                    |         |
| 4,100.0   | 4,045.6             | 4,077.5             | 4,066.9             | 13.0            | 8.6         | 159.76                | -210.6                            | 150.5      | 415.1                | 399.1                 | 15.96                  | 26.004            |                    |         |
| 4,200.0   | 4,143.8             | 4,176.7             | 4,165.8             | 13.4            | 8.8         | 159.83                | -216.7                            | 155.4      | 427.7                | 411.4                 | 16.36                  | 26.139            |                    |         |
| 4,300.0   | 4,242.0             | 4,275.9             | 4,264.7             | 13.7            | 9.0         | 159.90                | -222.7                            | 160.4      | 440.4                | 423.6                 | 16.77                  | 26.268            |                    |         |
| 4,400.0   | 4,340.2             | 4,375.0             | 4,363.6             | 14.1            | 9.2         | 159.96                | -228.8                            | 165.4      | 453.1                | 435.9                 | 17.17                  | 26.391            |                    |         |
| 4,500.0   | 4,438.4             | 4,474.2             | 4,462.5             | 14.5            | 9.4         | 160.02                | -234.8                            | 170.4      | 465.7                | 448.2                 | 17.57                  | 26.509            |                    |         |
| 4,600.0   | 4,536.6             | 4,573.4             | 4,561.3             | 14.9            | 9.7         | 160.08                | -240.9                            | 175.4      | 478.4                | 460.4                 | 17.97                  | 26.621            |                    |         |
| 4,700.0   | 4,634.8             | 4,672.6             | 4,660.2             | 15.2            | 9.9         | 160.13                | -246.9                            | 180.3      | 491.1                | 472.7                 | 18.37                  | 26.729            |                    |         |
| 4,800.0   | 4,733.0             | 4,771.8             | 4,759.1             | 15.6            | 10.1        | 160.18                | -253.0                            | 185.3      | 503.7                | 485.0                 | 18.77                  | 26.831            |                    |         |
| 4,900.0   | 4,831.2             | 4,871.0             | 4,858.0             | 16.0            | 10.3        | 160.23                | -259.0                            | 190.3      | 516.4                | 497.2                 | 19.18                  | 26.930            |                    |         |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4E-20H-O264 - 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<br>Uncertainty<br>Axis | Separation<br>Factor | Warning            |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                              |                      |                    |        |
| 4,988.9   | 4,918.6                   | 4,959.2                   | 4,945.9                   | 16.3              | 10.5           | 160.27                      | -264.4                                  | 194.7         | 527.7                      | 508.1                       | 19.53                        | 27.014               |                    |        |
| 5,000.0   | 4,929.5                   | 4,970.2                   | 4,956.9                   | 16.4              | 10.5           | 160.28                      | -265.1                                  | 195.3         | 529.1                      | 509.5                       | 19.58                        | 27.022               |                    |        |
| 5,100.0   | 5,027.9                   | 5,069.5                   | 5,055.9                   | 16.7              | 10.8           | 160.32                      | -271.1                                  | 200.2         | 540.7                      | 520.8                       | 19.99                        | 27.048               |                    |        |
| 5,200.0   | 5,126.5                   | 5,169.0                   | 5,155.1                   | 17.0              | 11.0           | 160.30                      | -277.2                                  | 205.2         | 550.8                      | 530.4                       | 20.41                        | 26.990               |                    |        |
| 5,300.0   | 5,225.5                   | 5,268.7                   | 5,254.4                   | 17.3              | 11.2           | 160.21                      | -283.3                                  | 210.2         | 559.2                      | 538.4                       | 20.82                        | 26.853               |                    |        |
| 5,400.0   | 5,324.7                   | 5,368.4                   | 5,353.8                   | 17.6              | 11.4           | 160.06                      | -289.4                                  | 215.2         | 566.0                      | 544.7                       | 21.24                        | 26.642               |                    |        |
| 5,500.0   | 5,424.1                   | 5,468.2                   | 5,453.4                   | 17.8              | 11.6           | 159.85                      | -295.5                                  | 220.2         | 571.1                      | 549.4                       | 21.66                        | 26.361               |                    |        |
| 5,600.0   | 5,523.7                   | 5,567.8                   | 5,552.6                   | 18.1              | 11.9           | 159.58                      | -301.5                                  | 225.2         | 574.6                      | 552.5                       | 22.09                        | 26.016               |                    |        |
| 5,700.0   | 5,623.4                   | 5,661.7                   | 5,646.2                   | 18.2              | 12.1           | 159.33                      | -306.6                                  | 229.4         | 577.1                      | 554.6                       | 22.48                        | 25.676               |                    |        |
| 5,800.0   | 5,723.2                   | 5,755.6                   | 5,740.0                   | 18.4              | 12.2           | 159.15                      | -310.5                                  | 232.6         | 579.0                      | 556.2                       | 22.84                        | 25.352               |                    |        |
| 5,900.0   | 5,823.2                   | 5,849.5                   | 5,833.9                   | 18.6              | 12.4           | 159.01                      | -313.2                                  | 234.8         | 580.3                      | 557.2                       | 23.17                        | 25.043               |                    |        |
| 6,000.0   | 5,923.1                   | 5,943.4                   | 5,927.8                   | 18.7              | 12.5           | 158.94                      | -314.7                                  | 236.1         | 581.1                      | 557.6                       | 23.48                        | 24.747               |                    |        |
| 6,076.9   | 6,000.0                   | 6,015.7                   | 6,000.0                   | 18.7              | 12.6           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 557.6                       | 23.70                        | 24.523               |                    |        |
| 6,100.0   | 6,023.1                   | 6,038.8                   | 6,023.1                   | 18.8              | 12.7           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 557.5                       | 23.77                        | 24.449               |                    |        |
| 6,200.0   | 6,123.1                   | 6,138.8                   | 6,123.1                   | 18.9              | 12.8           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 557.2                       | 24.08                        | 24.135               |                    |        |
| 6,300.0   | 6,223.1                   | 6,238.8                   | 6,223.1                   | 19.0              | 13.0           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 556.9                       | 24.39                        | 23.827               |                    |        |
| 6,400.0   | 6,323.1                   | 6,338.8                   | 6,323.1                   | 19.1              | 13.1           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 556.5                       | 24.71                        | 23.526               |                    |        |
| 6,500.0   | 6,423.1                   | 6,438.8                   | 6,423.1                   | 19.2              | 13.3           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 556.2                       | 25.02                        | 23.231               |                    |        |
| 6,600.0   | 6,523.1                   | 6,538.8                   | 6,523.1                   | 19.3              | 13.4           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 555.9                       | 25.33                        | 22.943               |                    |        |
| 6,665.9   | 6,589.0                   | 6,604.7                   | 6,589.0                   | 19.3              | 13.5           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 555.7                       | 25.54                        | 22.757               |                    |        |
| 6,668.8   | 6,592.0                   | 6,607.6                   | 6,592.0                   | 19.3              | 13.5           | -90.00                      | -315.0                                  | 236.3         | 581.3                      | 555.7                       | 25.55                        | 22.752               |                    |        |
| 6,700.0   | 6,623.1                   | 6,638.8                   | 6,623.1                   | 19.4              | 13.5           | -90.00                      | -314.0                                  | 236.3         | 581.3                      | 555.6                       | 25.61                        | 22.693               |                    |        |
| 6,750.0   | 6,672.8                   | 6,688.8                   | 6,672.8                   | 19.4              | 13.6           | -90.00                      | -308.9                                  | 236.3         | 581.3                      | 555.6                       | 25.66                        | 22.648               |                    |        |
| 6,800.0   | 6,721.9                   | 6,738.8                   | 6,721.9                   | 19.4              | 13.6           | -90.00                      | -299.4                                  | 236.3         | 581.3                      | 555.6                       | 25.66                        | 22.653               |                    |        |
| 6,850.0   | 6,770.0                   | 6,788.8                   | 6,770.0                   | 19.4              | 13.5           | -90.00                      | -285.7                                  | 236.3         | 581.3                      | 555.6                       | 25.61                        | 22.700               |                    |        |
| 6,900.0   | 6,816.7                   | 6,838.8                   | 6,816.7                   | 19.3              | 13.5           | -90.00                      | -267.9                                  | 236.3         | 581.3                      | 555.7                       | 25.51                        | 22.781               |                    |        |
| 6,950.0   | 6,861.6                   | 6,888.8                   | 6,861.6                   | 19.3              | 13.4           | -90.00                      | -246.0                                  | 236.3         | 581.3                      | 555.9                       | 25.40                        | 22.885               |                    |        |
| 7,000.0   | 6,904.5                   | 6,938.8                   | 6,904.5                   | 19.3              | 13.4           | -90.00                      | -220.3                                  | 236.3         | 581.3                      | 556.0                       | 25.27                        | 22.998               |                    |        |
| 7,050.0   | 6,945.0                   | 6,988.8                   | 6,945.0                   | 19.2              | 13.3           | -90.00                      | -191.0                                  | 236.3         | 581.3                      | 556.1                       | 25.16                        | 23.106               |                    |        |
| 7,100.0   | 6,982.8                   | 7,038.8                   | 6,982.8                   | 19.2              | 13.3           | -90.00                      | -158.3                                  | 236.3         | 581.3                      | 556.2                       | 25.06                        | 23.193               |                    |        |
| 7,150.0   | 7,017.6                   | 7,088.8                   | 7,017.6                   | 19.2              | 13.3           | -90.00                      | -122.4                                  | 236.3         | 581.3                      | 556.2                       | 25.01                        | 23.240               |                    |        |
| 7,200.0   | 7,049.1                   | 7,138.8                   | 7,049.1                   | 19.2              | 13.3           | -90.00                      | -83.6                                   | 236.3         | 581.3                      | 556.2                       | 25.02                        | 23.231               |                    |        |
| 7,250.0   | 7,077.1                   | 7,188.8                   | 7,077.1                   | 19.2              | 13.3           | -90.00                      | -42.2                                   | 236.3         | 581.3                      | 556.1                       | 25.11                        | 23.151               |                    |        |
| 7,300.0   | 7,101.4                   | 7,238.8                   | 7,101.4                   | 19.2              | 13.4           | -90.00                      | 1.5                                     | 236.3         | 581.3                      | 556.0                       | 25.28                        | 22.989               |                    |        |
| 7,350.0   | 7,121.8                   | 7,288.8                   | 7,121.8                   | 19.3              | 13.5           | -90.00                      | 47.1                                    | 236.3         | 581.3                      | 555.7                       | 25.56                        | 22.739               |                    |        |
| 7,400.0   | 7,138.1                   | 7,338.8                   | 7,138.1                   | 19.4              | 13.7           | -90.00                      | 94.4                                    | 236.3         | 581.3                      | 555.3                       | 25.95                        | 22.401               |                    |        |
| 7,450.0   | 7,150.3                   | 7,388.8                   | 7,150.3                   | 19.6              | 13.9           | -90.00                      | 142.8                                   | 236.3         | 581.3                      | 554.8                       | 26.44                        | 21.981               |                    |        |
| 7,500.0   | 7,158.2                   | 7,438.8                   | 7,158.2                   | 19.8              | 14.2           | -90.00                      | 192.2                                   | 236.3         | 581.3                      | 554.2                       | 27.05                        | 21.492               |                    |        |
| 7,550.0   | 7,161.8                   | 7,488.8                   | 7,161.7                   | 20.0              | 14.5           | -90.00                      | 242.0                                   | 236.3         | 581.3                      | 553.5                       | 27.75                        | 20.947               |                    |        |
| 7,565.9   | 7,162.0                   | 7,504.7                   | 7,162.0                   | 20.1              | 14.7           | -90.00                      | 258.0                                   | 236.3         | 581.3                      | 553.3                       | 27.99                        | 20.769               |                    |        |
| 7,600.0   | 7,162.0                   | 7,538.8                   | 7,162.0                   | 20.3              | 14.9           | -90.00                      | 292.0                                   | 236.3         | 581.3                      | 552.7                       | 28.55                        | 20.356               |                    |        |
| 7,700.0   | 7,162.0                   | 7,638.8                   | 7,162.0                   | 20.9              | 15.8           | -90.00                      | 392.0                                   | 236.3         | 581.3                      | 550.9                       | 30.38                        | 19.131               |                    |        |
| 7,800.0   | 7,162.0                   | 7,738.8                   | 7,162.0                   | 21.7              | 16.8           | -90.00                      | 492.0                                   | 236.3         | 581.3                      | 548.8                       | 32.49                        | 17.892               |                    |        |
| 7,900.0   | 7,162.0                   | 7,838.8                   | 7,162.0                   | 22.6              | 18.0           | -90.00                      | 592.0                                   | 236.3         | 581.3                      | 546.4                       | 34.82                        | 16.694               |                    |        |
| 8,000.0   | 7,162.0                   | 7,938.8                   | 7,162.0                   | 23.6              | 19.2           | -90.00                      | 692.0                                   | 236.3         | 581.3                      | 543.9                       | 37.33                        | 15.569               |                    |        |
| 8,100.0   | 7,162.0                   | 8,038.8                   | 7,162.0                   | 24.6              | 20.5           | -90.00                      | 792.0                                   | 236.3         | 581.3                      | 541.3                       | 40.00                        | 14.532               |                    |        |
| 8,200.0   | 7,162.0                   | 8,138.8                   | 7,162.0                   | 25.8              | 21.8           | -90.00                      | 892.0                                   | 236.3         | 581.3                      | 538.5                       | 42.79                        | 13.585               |                    |        |
| 8,300.0   | 7,162.0                   | 8,238.8                   | 7,162.0                   | 27.0              | 23.3           | -90.00                      | 992.0                                   | 236.3         | 581.3                      | 535.6                       | 45.67                        | 12.726               |                    |        |
| 8,400.0   | 7,162.0                   | 8,338.8                   | 7,162.0                   | 28.2              | 24.7           | -90.00                      | 1,092.0                                 | 236.3         | 581.3                      | 532.6                       | 48.64                        | 11.949               |                    |        |
| 8,500.0   | 7,162.0                   | 8,438.8                   | 7,162.0                   | 29.6              | 26.2           | -90.00                      | 1,192.0                                 | 236.3         | 581.3                      | 529.6                       | 51.68                        | 11.247               |                    |        |
| 8,600.0   | 7,162.0                   | 8,538.8                   | 7,162.0                   | 30.9              | 27.7           | -90.00                      | 1,292.0                                 | 236.3         | 581.3                      | 526.5                       | 54.77                        | 10.612               |                    |        |
| 8,700.0   | 7,162.0                   | 8,638.8                   | 7,162.0                   | 32.3              | 29.3           | -90.00                      | 1,392.0                                 | 236.3         | 581.3                      | 523.3                       | 57.91                        | 10.037               |                    |        |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4E-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning            |        |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |        |
| 8,800.0   | 7,162.0             | 8,738.8             | 7,162.0             | 33.7            | 30.9        | -90.00                | 1,492.0                           | 236.3      | 581.3                | 520.2                 | 61.09                  | 9.514             |                    |        |
| 8,900.0   | 7,162.0             | 8,838.8             | 7,162.0             | 35.2            | 32.4        | -90.00                | 1,592.0                           | 236.3      | 581.3                | 516.9                 | 64.31                  | 9.039             |                    |        |
| 9,000.0   | 7,162.0             | 8,938.8             | 7,162.0             | 36.7            | 34.1        | -90.00                | 1,692.0                           | 236.3      | 581.3                | 513.7                 | 67.55                  | 8.605             |                    |        |
| 9,100.0   | 7,162.0             | 9,038.8             | 7,162.0             | 38.2            | 35.7        | -90.00                | 1,792.0                           | 236.3      | 581.3                | 510.4                 | 70.82                  | 8.207             |                    |        |
| 9,200.0   | 7,162.0             | 9,138.8             | 7,162.0             | 39.7            | 37.3        | -90.00                | 1,892.0                           | 236.3      | 581.3                | 507.1                 | 74.11                  | 7.843             |                    |        |
| 9,300.0   | 7,162.0             | 9,238.8             | 7,162.0             | 41.3            | 39.0        | -90.00                | 1,992.0                           | 236.3      | 581.3                | 503.8                 | 77.42                  | 7.508             |                    |        |
| 9,400.0   | 7,162.0             | 9,338.8             | 7,162.0             | 42.8            | 40.6        | -90.00                | 2,092.0                           | 236.3      | 581.3                | 500.5                 | 80.75                  | 7.198             |                    |        |
| 9,500.0   | 7,162.0             | 9,438.8             | 7,162.0             | 44.4            | 42.3        | -90.00                | 2,192.0                           | 236.3      | 581.3                | 497.2                 | 84.09                  | 6.912             |                    |        |
| 9,600.0   | 7,162.0             | 9,538.8             | 7,162.0             | 46.0            | 43.9        | -90.00                | 2,292.0                           | 236.3      | 581.3                | 493.8                 | 87.44                  | 6.647             |                    |        |
| 9,700.0   | 7,162.0             | 9,638.8             | 7,162.0             | 47.6            | 45.6        | -90.00                | 2,392.0                           | 236.3      | 581.3                | 490.4                 | 90.81                  | 6.401             |                    |        |
| 9,800.0   | 7,162.0             | 9,738.8             | 7,162.0             | 49.2            | 47.3        | -90.00                | 2,492.0                           | 236.3      | 581.3                | 487.1                 | 94.19                  | 6.171             |                    |        |
| 9,900.0   | 7,162.0             | 9,838.8             | 7,162.0             | 50.9            | 49.0        | -90.00                | 2,592.0                           | 236.3      | 581.3                | 483.7                 | 97.57                  | 5.957             |                    |        |
| 10,000.0  | 7,162.0             | 9,938.8             | 7,162.0             | 52.5            | 50.7        | -90.00                | 2,692.0                           | 236.3      | 581.3                | 480.3                 | 100.97                 | 5.757             |                    |        |
| 10,100.0  | 7,162.0             | 10,038.8            | 7,162.0             | 54.1            | 52.4        | -90.00                | 2,792.0                           | 236.3      | 581.3                | 476.9                 | 104.37                 | 5.569             |                    |        |
| 10,200.0  | 7,162.0             | 10,138.8            | 7,162.0             | 55.8            | 54.1        | -90.00                | 2,892.0                           | 236.3      | 581.3                | 473.5                 | 107.78                 | 5.393             |                    |        |
| 10,300.0  | 7,162.0             | 10,238.8            | 7,162.0             | 57.4            | 55.8        | -90.00                | 2,992.0                           | 236.3      | 581.3                | 470.1                 | 111.19                 | 5.228             |                    |        |
| 10,400.0  | 7,162.0             | 10,338.8            | 7,162.0             | 59.1            | 57.5        | -90.00                | 3,092.0                           | 236.3      | 581.3                | 466.6                 | 114.61                 | 5.072             |                    |        |
| 10,500.0  | 7,162.0             | 10,438.8            | 7,162.0             | 60.7            | 59.2        | -90.00                | 3,192.0                           | 236.3      | 581.3                | 463.2                 | 118.04                 | 4.924             |                    |        |
| 10,600.0  | 7,162.0             | 10,538.8            | 7,162.0             | 62.4            | 60.9        | -90.00                | 3,292.0                           | 236.3      | 581.3                | 459.8                 | 121.47                 | 4.785             |                    |        |
| 10,700.0  | 7,162.0             | 10,638.8            | 7,162.0             | 64.1            | 62.6        | -90.00                | 3,392.0                           | 236.3      | 581.3                | 456.4                 | 124.90                 | 4.654             |                    |        |
| 10,800.0  | 7,162.0             | 10,738.8            | 7,162.0             | 65.8            | 64.3        | -90.00                | 3,492.0                           | 236.3      | 581.3                | 452.9                 | 128.34                 | 4.529             |                    |        |
| 10,900.0  | 7,162.0             | 10,838.8            | 7,162.0             | 67.4            | 66.0        | -90.00                | 3,592.0                           | 236.3      | 581.3                | 449.5                 | 131.78                 | 4.411             |                    |        |
| 11,000.0  | 7,162.0             | 10,938.8            | 7,162.0             | 69.1            | 67.8        | -90.00                | 3,692.0                           | 236.4      | 581.3                | 446.0                 | 135.23                 | 4.298             |                    |        |
| 11,100.0  | 7,162.0             | 11,038.8            | 7,162.0             | 70.8            | 69.5        | -90.00                | 3,792.0                           | 236.4      | 581.3                | 442.6                 | 138.68                 | 4.191             |                    |        |
| 11,200.0  | 7,162.0             | 11,138.8            | 7,162.0             | 72.5            | 71.2        | -90.00                | 3,892.0                           | 236.4      | 581.3                | 439.1                 | 142.13                 | 4.090             |                    |        |
| 11,300.0  | 7,162.0             | 11,217.9            | 7,162.0             | 74.2            | 72.6        | -90.00                | 3,971.1                           | 235.1      | 582.9                | 437.6                 | 145.22                 | 4.014             |                    |        |
| 11,400.0  | 7,162.0             | 11,300.0            | 7,162.0             | 75.9            | 74.0        | -90.00                | 4,053.1                           | 230.4      | 588.5                | 440.1                 | 148.36                 | 3.967             |                    |        |
| 11,500.0  | 7,162.0             | 11,369.9            | 7,162.0             | 77.6            | 75.1        | -90.00                | 4,122.6                           | 223.6      | 598.1                | 446.8                 | 151.29                 | 3.953 SF          |                    |        |
| 11,600.0  | 7,162.0             | 11,444.9            | 7,162.0             | 79.3            | 76.4        | -90.00                | 4,197.0                           | 213.4      | 611.6                | 457.3                 | 154.30                 | 3.964             |                    |        |
| 11,700.0  | 7,162.0             | 11,519.1            | 7,162.0             | 81.0            | 77.7        | -90.00                | 4,270.0                           | 200.4      | 629.1                | 471.8                 | 157.29                 | 4.000             |                    |        |
| 11,801.7  | 7,162.0             | 11,600.0            | 7,162.0             | 82.7            | 79.0        | -90.00                | 4,349.0                           | 183.1      | 650.9                | 490.4                 | 160.42                 | 4.057             |                    |        |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4F-20H-O264 - 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<br>Toolface<br>(°) | Distance                                |               | Total<br>Uncertainty<br>Axis | Separation<br>Factor | Warning |               |                    |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) |                              |                      |         |               |                    |        |
| 0.0   | 0.0                       | 0.0                       | 0.0                       | 0.0               | 0.0            | -90.10                      | 0.0                                     | -15.1         | 15.1                         |                      |         |               |                    |        |
| 100.0   | 100.0                     | 100.0                     | 100.0                     | 0.1               | 0.1            | -90.10                      | 0.0                                     | -15.1         | 15.1                         | 14.9                 | 0.24    | 61.807        |                    |        |
| 200.0   | 200.0                     | 200.0                     | 200.0                     | 0.3               | 0.3            | -90.10                      | 0.0                                     | -15.1         | 15.1                         | 14.5                 | 0.59    | 25.450        |                    |        |
| 300.0   | 300.0                     | 300.0                     | 300.0                     | 0.5               | 0.5            | -90.10                      | 0.0                                     | -15.1         | 15.1                         | 14.2                 | 0.94    | 16.024        |                    |        |
| 350.0   | 350.0                     | 350.0                     | 350.0                     | 0.6               | 0.6            | -90.10                      | 0.0                                     | -15.1         | 15.1                         | 14.0                 | 1.12    | 13.520 CC, ES |                    |        |
| 400.0   | 400.0                     | 400.0                     | 400.0                     | 0.6               | 0.6            | 159.13                      | 0.0                                     | -15.1         | 15.3                         | 14.0                 | 1.29    | 11.851        |                    |        |
| 500.0   | 500.0                     | 500.1                     | 500.1                     | 0.8               | 0.8            | 160.78                      | -0.2                                    | -14.9         | 16.8                         | 15.1                 | 1.64    | 10.224        |                    |        |
| 600.0   | 599.9                     | 600.3                     | 600.3                     | 1.0               | 1.0            | 161.02                      | -1.3                                    | -13.6         | 18.7                         | 16.7                 | 1.99    | 9.386         |                    |        |
| 700.0   | 699.8                     | 700.6                     | 700.5                     | 1.2               | 1.2            | 159.86                      | -3.5                                    | -10.9         | 20.9                         | 18.5                 | 2.34    | 8.901         |                    |        |
| 800.0   | 799.5                     | 800.8                     | 800.6                     | 1.4               | 1.4            | 157.71                      | -6.9                                    | -6.8          | 23.3                         | 20.6                 | 2.70    | 8.631         |                    |        |
| 900.0   | 899.2                     | 901.1                     | 900.6                     | 1.6               | 1.6            | 154.95                      | -11.3                                   | -1.4          | 26.1                         | 23.0                 | 3.07    | 8.499         |                    |        |
| 1,000.0   | 998.6                     | 1,001.4                   | 1,000.5                   | 1.8               | 1.8            | 151.83                      | -16.9                                   | 5.4           | 29.3                         | 25.8                 | 3.46    | 8.460         |                    |        |
| 1,100.0   | 1,097.9                   | 1,101.4                   | 1,100.0                   | 2.1               | 2.0            | 149.38                      | -23.2                                   | 13.0          | 33.3                         | 29.4                 | 3.87    | 8.603         |                    |        |
| 1,200.0   | 1,196.9                   | 1,201.2                   | 1,199.4                   | 2.4               | 2.2            | 148.80                      | -29.4                                   | 20.6          | 38.8                         | 34.5                 | 4.28    | 9.063         |                    |        |
| 1,300.0   | 1,295.7                   | 1,301.0                   | 1,298.6                   | 2.7               | 2.5            | 149.50                      | -35.7                                   | 28.2          | 45.8                         | 41.1                 | 4.69    | 9.766         |                    |        |
| 1,400.0   | 1,394.1                   | 1,400.6                   | 1,397.8                   | 3.0               | 2.7            | 150.92                      | -42.0                                   | 35.8          | 54.3                         | 49.2                 | 5.09    | 10.668        |                    |        |
| 1,437.9   | 1,431.4                   | 1,438.3                   | 1,435.4                   | 3.1               | 2.8            | 151.56                      | -44.4                                   | 38.7          | 58.0                         | 52.7                 | 5.24    | 11.057        |                    |        |
| 1,500.0   | 1,492.4                   | 1,500.1                   | 1,496.8                   | 3.4               | 2.9            | 152.56                      | -48.2                                   | 43.4          | 64.1                         | 58.6                 | 5.49    | 11.681        |                    |        |
| 1,600.0   | 1,590.6                   | 1,599.6                   | 1,595.8                   | 3.7               | 3.2            | 153.82                      | -54.5                                   | 51.1          | 74.1                         | 68.2                 | 5.89    | 12.578        |                    |        |
| 1,700.0   | 1,688.8                   | 1,699.1                   | 1,694.8                   | 4.1               | 3.4            | 154.79                      | -60.8                                   | 58.7          | 84.0                         | 77.7                 | 6.29    | 13.364        |                    |        |
| 1,800.0   | 1,787.0                   | 1,798.6                   | 1,793.8                   | 4.4               | 3.6            | 155.55                      | -67.0                                   | 66.3          | 94.0                         | 87.3                 | 6.69    | 14.058        |                    |        |
| 1,900.0   | 1,885.2                   | 1,898.1                   | 1,892.8                   | 4.8               | 3.9            | 156.16                      | -73.3                                   | 73.9          | 104.0                        | 96.9                 | 7.09    | 14.674        |                    |        |
| 2,000.0   | 1,983.4                   | 1,997.6                   | 1,991.8                   | 5.2               | 4.1            | 156.66                      | -79.5                                   | 81.5          | 114.0                        | 106.5                | 7.49    | 15.225        |                    |        |
| 2,100.0   | 2,081.6                   | 2,097.1                   | 2,090.8                   | 5.5               | 4.4            | 157.09                      | -85.8                                   | 89.1          | 124.0                        | 116.2                | 7.89    | 15.720        |                    |        |
| 2,200.0   | 2,179.8                   | 2,196.5                   | 2,189.8                   | 5.9               | 4.6            | 157.45                      | -92.1                                   | 96.7          | 134.1                        | 125.8                | 8.29    | 16.167        |                    |        |
| 2,300.0   | 2,278.0                   | 2,296.0                   | 2,288.8                   | 6.3               | 4.8            | 157.76                      | -98.3                                   | 104.3         | 144.1                        | 135.4                | 8.69    | 16.573        |                    |        |
| 2,400.0   | 2,376.2                   | 2,395.5                   | 2,387.8                   | 6.6               | 5.1            | 158.03                      | -104.6                                  | 111.9         | 154.1                        | 145.0                | 9.10    | 16.942        |                    |        |
| 2,500.0   | 2,474.4                   | 2,495.0                   | 2,486.8                   | 7.0               | 5.3            | 158.26                      | -110.8                                  | 119.5         | 164.2                        | 154.7                | 9.50    | 17.281        |                    |        |
| 2,600.0   | 2,572.6                   | 2,594.5                   | 2,585.8                   | 7.4               | 5.6            | 158.47                      | -117.1                                  | 127.1         | 174.2                        | 164.3                | 9.90    | 17.592        |                    |        |
| 2,700.0   | 2,670.8                   | 2,694.0                   | 2,684.9                   | 7.7               | 5.8            | 158.66                      | -123.4                                  | 134.7         | 184.2                        | 173.9                | 10.31   | 17.878        |                    |        |
| 2,800.0   | 2,769.0                   | 2,793.5                   | 2,783.9                   | 8.1               | 6.0            | 158.83                      | -129.6                                  | 142.3         | 194.3                        | 183.6                | 10.71   | 18.143        |                    |        |
| 2,900.0   | 2,867.2                   | 2,893.0                   | 2,882.9                   | 8.5               | 6.3            | 158.98                      | -135.9                                  | 149.9         | 204.3                        | 193.2                | 11.11   | 18.389        |                    |        |
| 3,000.0   | 2,965.4                   | 2,992.5                   | 2,981.9                   | 8.9               | 6.5            | 159.12                      | -142.2                                  | 157.5         | 214.4                        | 202.9                | 11.51   | 18.617        |                    |        |
| 3,100.0   | 3,063.6                   | 3,092.0                   | 3,080.9                   | 9.2               | 6.8            | 159.24                      | -148.4                                  | 165.1         | 224.4                        | 212.5                | 11.92   | 18.830        |                    |        |
| 3,200.0   | 3,161.8                   | 3,191.5                   | 3,179.9                   | 9.6               | 7.0            | 159.35                      | -154.7                                  | 172.7         | 234.5                        | 222.1                | 12.32   | 19.029        |                    |        |
| 3,300.0   | 3,260.0                   | 3,291.0                   | 3,278.9                   | 10.0              | 7.3            | 159.46                      | -160.9                                  | 180.3         | 244.5                        | 231.8                | 12.72   | 19.215        |                    |        |
| 3,400.0   | 3,358.2                   | 3,390.5                   | 3,377.9                   | 10.4              | 7.5            | 159.56                      | -167.2                                  | 187.9         | 254.5                        | 241.4                | 13.13   | 19.390        |                    |        |
| 3,500.0   | 3,456.4                   | 3,490.0                   | 3,476.9                   | 10.7              | 7.7            | 159.64                      | -173.5                                  | 195.5         | 264.6                        | 251.1                | 13.53   | 19.554        |                    |        |
| 3,600.0   | 3,554.6                   | 3,589.4                   | 3,575.9                   | 11.1              | 8.0            | 159.73                      | -179.7                                  | 203.1         | 274.6                        | 260.7                | 13.94   | 19.709        |                    |        |
| 3,700.0   | 3,652.8                   | 3,688.9                   | 3,674.9                   | 11.5              | 8.2            | 159.80                      | -186.0                                  | 210.7         | 284.7                        | 270.4                | 14.34   | 19.855        |                    |        |
| 3,800.0   | 3,751.0                   | 3,788.4                   | 3,773.9                   | 11.9              | 8.5            | 159.87                      | -192.2                                  | 218.3         | 294.7                        | 280.0                | 14.74   | 19.993        |                    |        |
| 3,900.0   | 3,849.2                   | 3,887.9                   | 3,872.9                   | 12.2              | 8.7            | 159.94                      | -198.5                                  | 225.9         | 304.8                        | 289.6                | 15.15   | 20.123        |                    |        |
| 4,000.0   | 3,947.4                   | 3,987.4                   | 3,971.9                   | 12.6              | 9.0            | 160.00                      | -204.8                                  | 233.5         | 314.8                        | 299.3                | 15.55   | 20.247        |                    |        |
| 4,100.0   | 4,045.6                   | 4,086.9                   | 4,070.9                   | 13.0              | 9.2            | 160.06                      | -211.0                                  | 241.1         | 324.9                        | 308.9                | 15.95   | 20.364        |                    |        |
| 4,200.0   | 4,143.8                   | 4,186.4                   | 4,169.9                   | 13.4              | 9.5            | 160.12                      | -217.3                                  | 248.7         | 334.9                        | 318.6                | 16.36   | 20.476        |                    |        |
| 4,300.0   | 4,242.0                   | 4,285.9                   | 4,268.9                   | 13.7              | 9.7            | 160.17                      | -223.5                                  | 256.3         | 345.0                        | 328.2                | 16.76   | 20.582        |                    |        |
| 4,400.0   | 4,340.2                   | 4,385.4                   | 4,367.9                   | 14.1              | 9.9            | 160.22                      | -229.8                                  | 263.9         | 355.1                        | 337.9                | 17.17   | 20.684        |                    |        |
| 4,500.0   | 4,438.4                   | 4,484.9                   | 4,466.9                   | 14.5              | 10.2           | 160.26                      | -236.1                                  | 271.5         | 365.1                        | 347.5                | 17.57   | 20.780        |                    |        |
| 4,600.0   | 4,536.6                   | 4,584.4                   | 4,565.9                   | 14.9              | 10.4           | 160.31                      | -242.3                                  | 279.1         | 375.2                        | 357.2                | 17.97   | 20.872        |                    |        |
| 4,700.0   | 4,634.8                   | 4,683.9                   | 4,664.9                   | 15.2              | 10.7           | 160.35                      | -248.6                                  | 286.7         | 385.2                        | 366.8                | 18.38   | 20.960        |                    |        |
| 4,800.0   | 4,733.0                   | 4,783.4                   | 4,763.9                   | 15.6              | 10.9           | 160.39                      | -254.8                                  | 294.3         | 395.3                        | 376.5                | 18.78   | 21.045        |                    |        |
| 4,900.0   | 4,831.2                   | 4,882.9                   | 4,863.0                   | 16.0              | 11.2           | 160.43                      | -261.1                                  | 301.9         | 405.3                        | 386.1                | 19.19   | 21.125        |                    |        |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4F-20H-O264 - 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<br>Uncertainty<br>Axis | Separation<br>Factor | Warning            |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                              |                      |                    |        |
| 4,988.9   | 4,918.6                   | 4,971.3                   | 4,951.0                   | 16.3              | 11.4           | 160.46                      | -266.7                                  | 308.7         | 414.3                      | 394.7                       | 19.55                        | 21.194               |                    |        |
| 5,000.0   | 4,929.5                   | 4,982.4                   | 4,962.0                   | 16.4              | 11.4           | 160.47                      | -267.4                                  | 309.5         | 415.4                      | 395.8                       | 19.59                        | 21.201               |                    |        |
| 5,100.0   | 5,027.9                   | 5,081.9                   | 5,061.1                   | 16.7              | 11.6           | 160.48                      | -273.6                                  | 317.1         | 424.4                      | 404.4                       | 20.01                        | 21.213               |                    |        |
| 5,200.0   | 5,126.5                   | 5,181.7                   | 5,160.3                   | 17.0              | 11.9           | 160.41                      | -279.9                                  | 324.7         | 431.8                      | 411.4                       | 20.43                        | 21.139               |                    |        |
| 5,300.0   | 5,225.5                   | 5,281.5                   | 5,259.6                   | 17.3              | 12.1           | 160.27                      | -286.2                                  | 332.4         | 437.6                      | 416.7                       | 20.86                        | 20.983               |                    |        |
| 5,400.0   | 5,324.7                   | 5,381.4                   | 5,359.0                   | 17.6              | 12.4           | 160.04                      | -292.5                                  | 340.0         | 441.7                      | 420.5                       | 21.29                        | 20.750               |                    |        |
| 5,500.0   | 5,424.1                   | 5,479.9                   | 5,457.0                   | 17.8              | 12.6           | 159.75                      | -298.6                                  | 347.5         | 444.3                      | 422.6                       | 21.72                        | 20.453               |                    |        |
| 5,600.0   | 5,523.7                   | 5,574.1                   | 5,550.9                   | 18.1              | 12.8           | 159.49                      | -303.8                                  | 353.8         | 446.2                      | 424.0                       | 22.13                        | 20.163               |                    |        |
| 5,700.0   | 5,623.4                   | 5,668.4                   | 5,644.9                   | 18.2              | 13.0           | 159.28                      | -308.0                                  | 358.9         | 447.7                      | 425.2                       | 22.51                        | 19.891               |                    |        |
| 5,800.0   | 5,723.2                   | 5,762.6                   | 5,739.1                   | 18.4              | 13.2           | 159.11                      | -311.2                                  | 362.8         | 448.8                      | 426.0                       | 22.86                        | 19.634               |                    |        |
| 5,900.0   | 5,823.2                   | 5,856.9                   | 5,833.3                   | 18.6              | 13.4           | 159.00                      | -313.5                                  | 365.5         | 449.6                      | 426.5                       | 23.19                        | 19.390               |                    |        |
| 6,000.0   | 5,923.1                   | 5,951.2                   | 5,927.5                   | 18.7              | 13.5           | 158.94                      | -314.7                                  | 367.0         | 450.1                      | 426.6                       | 23.49                        | 19.158               |                    |        |
| 6,076.9   | 6,000.0                   | 6,023.7                   | 6,000.0                   | 18.7              | 13.6           | -90.00                      | -315.0                                  | 367.4         | 450.2                      | 426.5                       | 23.71                        | 18.985               |                    |        |
| 6,100.0   | 6,023.1                   | 6,046.8                   | 6,023.1                   | 18.8              | 13.6           | -90.00                      | -315.0                                  | 367.4         | 450.2                      | 426.4                       | 23.78                        | 18.928               |                    |        |
| 6,200.0   | 6,123.1                   | 6,146.8                   | 6,123.1                   | 18.9              | 13.8           | -90.00                      | -315.0                                  | 367.4         | 450.2                      | 426.1                       | 24.10                        | 18.684               |                    |        |
| 6,300.0   | 6,223.1                   | 6,246.8                   | 6,223.1                   | 19.0              | 13.9           | -90.00                      | -315.0                                  | 367.4         | 450.2                      | 425.8                       | 24.41                        | 18.446               |                    |        |
| 6,400.0   | 6,323.1                   | 6,346.8                   | 6,323.1                   | 19.1              | 14.0           | -90.00                      | -315.0                                  | 367.4         | 450.2                      | 425.5                       | 24.72                        | 18.213               |                    |        |
| 6,444.0   | 6,367.1                   | 6,390.8                   | 6,367.1                   | 19.1              | 14.1           | -89.99                      | -314.9                                  | 367.4         | 450.2                      | 425.4                       | 24.85                        | 18.117               |                    |        |
| 6,500.0   | 6,423.1                   | 6,446.5                   | 6,422.7                   | 19.2              | 14.1           | -89.49                      | -311.0                                  | 367.4         | 450.2                      | 425.3                       | 24.90                        | 18.082               |                    |        |
| 6,600.0   | 6,523.1                   | 6,542.2                   | 6,516.3                   | 19.3              | 14.1           | -87.06                      | -291.9                                  | 367.4         | 450.8                      | 426.2                       | 24.67                        | 18.274               |                    |        |
| 6,665.9   | 6,589.0                   | 6,600.0                   | 6,570.9                   | 19.3              | 14.1           | -84.65                      | -272.8                                  | 367.4         | 452.5                      | 428.1                       | 24.41                        | 18.539               |                    |        |
| 6,700.0   | 6,623.1                   | 6,629.8                   | 6,598.2                   | 19.4              | 14.0           | -83.10                      | -260.9                                  | 367.4         | 454.0                      | 429.8                       | 24.23                        | 18.736               |                    |        |
| 6,750.0   | 6,672.8                   | 6,671.5                   | 6,635.3                   | 19.4              | 14.0           | -80.94                      | -241.8                                  | 367.4         | 456.7                      | 432.7                       | 24.00                        | 19.027               |                    |        |
| 6,800.0   | 6,721.9                   | 6,712.3                   | 6,670.1                   | 19.4              | 13.9           | -78.87                      | -220.6                                  | 367.4         | 460.0                      | 436.1                       | 23.82                        | 19.312               |                    |        |
| 6,850.0   | 6,770.0                   | 6,750.0                   | 6,700.9                   | 19.4              | 13.9           | -76.97                      | -198.9                                  | 367.4         | 463.7                      | 440.0                       | 23.69                        | 19.574               |                    |        |
| 6,900.0   | 6,816.7                   | 6,791.5                   | 6,733.1                   | 19.3              | 13.8           | -75.00                      | -172.6                                  | 367.4         | 467.7                      | 444.1                       | 23.60                        | 19.816               |                    |        |
| 6,950.0   | 6,861.6                   | 6,830.2                   | 6,761.2                   | 19.3              | 13.8           | -73.24                      | -146.1                                  | 367.4         | 471.9                      | 448.4                       | 23.57                        | 20.023               |                    |        |
| 7,000.0   | 6,904.5                   | 6,868.3                   | 6,787.2                   | 19.3              | 13.8           | -71.60                      | -118.2                                  | 367.4         | 476.3                      | 452.7                       | 23.58                        | 20.203               |                    |        |
| 7,050.0   | 6,945.0                   | 6,906.0                   | 6,811.0                   | 19.2              | 13.8           | -70.08                      | -89.0                                   | 367.4         | 480.7                      | 457.1                       | 23.61                        | 20.361               |                    |        |
| 7,100.0   | 6,982.8                   | 6,943.2                   | 6,832.6                   | 19.2              | 13.8           | -68.69                      | -58.7                                   | 367.4         | 484.9                      | 461.3                       | 23.66                        | 20.494               |                    |        |
| 7,150.0   | 7,017.6                   | 6,980.1                   | 6,851.9                   | 19.2              | 13.9           | -67.45                      | -27.3                                   | 367.4         | 489.0                      | 465.3                       | 23.75                        | 20.590               |                    |        |
| 7,200.0   | 7,049.1                   | 7,016.7                   | 6,869.1                   | 19.2              | 13.9           | -66.34                      | 5.0                                     | 367.4         | 492.9                      | 469.0                       | 23.80                        | 20.705               |                    |        |
| 7,250.0   | 7,077.1                   | 7,050.0                   | 6,883.0                   | 19.2              | 14.0           | -65.42                      | 35.3                                    | 367.4         | 496.4                      | 472.5                       | 23.89                        | 20.780               |                    |        |
| 7,300.0   | 7,101.4                   | 7,089.1                   | 6,896.9                   | 19.2              | 14.1           | -64.54                      | 71.7                                    | 367.4         | 499.4                      | 475.4                       | 24.00                        | 20.807               |                    |        |
| 7,350.0   | 7,121.8                   | 7,125.0                   | 6,907.5                   | 19.3              | 14.3           | -63.86                      | 106.0                                   | 367.4         | 502.1                      | 477.9                       | 24.13                        | 20.808               |                    |        |
| 7,400.0   | 7,138.1                   | 7,160.7                   | 6,915.9                   | 19.4              | 14.4           | -63.32                      | 140.8                                   | 367.4         | 504.2                      | 479.9                       | 24.27                        | 20.771               |                    |        |
| 7,450.0   | 7,150.3                   | 7,200.0                   | 6,922.6                   | 19.6              | 14.6           | -62.89                      | 179.5                                   | 367.4         | 505.8                      | 481.4                       | 24.47                        | 20.669               |                    |        |
| 7,500.0   | 7,158.2                   | 7,231.9                   | 6,926.1                   | 19.8              | 14.8           | -62.66                      | 211.2                                   | 367.4         | 506.9                      | 482.2                       | 24.68                        | 20.538               |                    |        |
| 7,550.0   | 7,161.8                   | 7,267.4                   | 6,927.9                   | 20.0              | 15.1           | -62.54                      | 246.7                                   | 367.4         | 507.4                      | 482.4                       | 24.95                        | 20.337               |                    |        |
| 7,565.9   | 7,162.0                   | 7,278.7                   | 6,928.0                   | 20.1              | 15.1           | -62.54                      | 258.0                                   | 367.4         | 507.4                      | 482.3                       | 25.04                        | 20.260               |                    |        |
| 7,600.0   | 7,162.0                   | 7,312.8                   | 6,928.0                   | 20.3              | 15.4           | -62.54                      | 292.0                                   | 367.4         | 507.4                      | 481.8                       | 25.56                        | 19.851               |                    |        |
| 7,700.0   | 7,162.0                   | 7,412.8                   | 6,928.0                   | 20.9              | 16.2           | -62.54                      | 392.0                                   | 367.4         | 507.4                      | 480.1                       | 27.23                        | 18.631               |                    |        |
| 7,800.0   | 7,162.0                   | 7,512.8                   | 6,928.0                   | 21.7              | 17.2           | -62.54                      | 492.0                                   | 367.4         | 507.4                      | 478.2                       | 29.15                        | 17.409               |                    |        |
| 7,900.0   | 7,162.0                   | 7,612.8                   | 6,928.0                   | 22.6              | 18.3           | -62.54                      | 592.0                                   | 367.4         | 507.4                      | 476.1                       | 31.25                        | 16.235               |                    |        |
| 8,000.0   | 7,162.0                   | 7,712.8                   | 6,928.0                   | 23.6              | 19.5           | -62.54                      | 692.0                                   | 367.4         | 507.4                      | 473.9                       | 33.52                        | 15.138               |                    |        |
| 8,100.0   | 7,162.0                   | 7,812.8                   | 6,928.0                   | 24.6              | 20.8           | -62.54                      | 792.0                                   | 367.4         | 507.4                      | 471.5                       | 35.91                        | 14.129               |                    |        |
| 8,200.0   | 7,162.0                   | 7,912.8                   | 6,928.0                   | 25.8              | 22.1           | -62.54                      | 892.0                                   | 367.4         | 507.4                      | 469.0                       | 38.41                        | 13.210               |                    |        |
| 8,300.0   | 7,162.0                   | 8,012.8                   | 6,928.0                   | 27.0              | 23.5           | -62.54                      | 992.0                                   | 367.4         | 507.4                      | 466.4                       | 40.99                        | 12.378               |                    |        |
| 8,400.0   | 7,162.0                   | 8,112.8                   | 6,928.0                   | 28.2              | 25.0           | -62.54                      | 1,092.0                                 | 367.4         | 507.4                      | 463.7                       | 43.64                        | 11.625               |                    |        |
| 8,500.0   | 7,162.0                   | 8,212.8                   | 6,928.0                   | 29.6              | 26.4           | -62.54                      | 1,192.0                                 | 367.4         | 507.4                      | 461.0                       | 46.35                        | 10.946               |                    |        |
| 8,600.0   | 7,162.0                   | 8,312.8                   | 6,928.0                   | 30.9              | 28.0           | -62.54                      | 1,292.0                                 | 367.4         | 507.4                      | 458.3                       | 49.11                        | 10.331               |                    |        |
| 8,700.0   | 7,162.0                   | 8,412.8                   | 6,928.0                   | 32.3              | 29.5           | -62.54                      | 1,392.0                                 | 367.4         | 507.4                      | 455.5                       | 51.91                        | 9.774                |                    |        |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4F-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Site Error: 0.0 ft |         |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Well Error: 0.0 ft |         |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                           | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor         |         |
| 8,800.0   | 7,162.0             | 8,512.8             | 6,928.0             | 33.7            | 31.1        | -62.54                | 1,492.0                           | 367.4      | 507.4                | 452.6                 | 54.75                  | 9.268                     |         |
| 8,900.0   | 7,162.0             | 8,612.8             | 6,928.0             | 35.2            | 32.6        | -62.54                | 1,592.0                           | 367.4      | 507.4                | 449.8                 | 57.61                  | 8.807                     |         |
| 9,000.0   | 7,162.0             | 8,712.8             | 6,928.0             | 36.7            | 34.2        | -62.54                | 1,692.0                           | 367.4      | 507.4                | 446.9                 | 60.50                  | 8.387                     |         |
| 9,100.0   | 7,162.0             | 8,812.8             | 6,928.0             | 38.2            | 35.8        | -62.54                | 1,792.0                           | 367.4      | 507.4                | 444.0                 | 63.41                  | 8.002                     |         |
| 9,200.0   | 7,162.0             | 8,912.8             | 6,928.0             | 39.7            | 37.5        | -62.54                | 1,892.0                           | 367.4      | 507.4                | 441.0                 | 66.34                  | 7.648                     |         |
| 9,300.0   | 7,162.0             | 9,012.8             | 6,928.0             | 41.3            | 39.1        | -62.54                | 1,992.0                           | 367.4      | 507.4                | 438.1                 | 69.28                  | 7.323                     |         |
| 9,400.0   | 7,162.0             | 9,112.8             | 6,928.0             | 42.8            | 40.7        | -62.54                | 2,092.0                           | 367.4      | 507.4                | 435.1                 | 72.24                  | 7.023                     |         |
| 9,500.0   | 7,162.0             | 9,212.8             | 6,928.0             | 44.4            | 42.4        | -62.54                | 2,192.0                           | 367.4      | 507.4                | 432.2                 | 75.22                  | 6.746                     |         |
| 9,600.0   | 7,162.0             | 9,312.8             | 6,928.0             | 46.0            | 44.1        | -62.54                | 2,292.0                           | 367.4      | 507.4                | 429.2                 | 78.20                  | 6.488                     |         |
| 9,700.0   | 7,162.0             | 9,412.8             | 6,928.0             | 47.6            | 45.7        | -62.54                | 2,392.0                           | 367.4      | 507.4                | 426.2                 | 81.20                  | 6.249                     |         |
| 9,800.0   | 7,162.0             | 9,512.8             | 6,928.0             | 49.2            | 47.4        | -62.54                | 2,492.0                           | 367.4      | 507.4                | 423.2                 | 84.20                  | 6.026                     |         |
| 9,900.0   | 7,162.0             | 9,612.8             | 6,928.0             | 50.9            | 49.1        | -62.54                | 2,592.0                           | 367.4      | 507.4                | 420.2                 | 87.21                  | 5.818                     |         |
| 10,000.0  | 7,162.0             | 9,712.8             | 6,928.0             | 52.5            | 50.8        | -62.54                | 2,692.0                           | 367.4      | 507.4                | 417.1                 | 90.23                  | 5.623                     |         |
| 10,100.0  | 7,162.0             | 9,812.8             | 6,928.0             | 54.1            | 52.5        | -62.54                | 2,792.0                           | 367.4      | 507.4                | 414.1                 | 93.25                  | 5.441                     |         |
| 10,200.0  | 7,162.0             | 9,912.8             | 6,928.0             | 55.8            | 54.2        | -62.54                | 2,892.0                           | 367.4      | 507.4                | 411.1                 | 96.28                  | 5.270                     |         |
| 10,300.0  | 7,162.0             | 10,012.8            | 6,928.0             | 57.4            | 55.9        | -62.54                | 2,992.0                           | 367.4      | 507.4                | 408.1                 | 99.32                  | 5.108                     |         |
| 10,400.0  | 7,162.0             | 10,112.8            | 6,928.0             | 59.1            | 57.6        | -62.54                | 3,092.0                           | 367.4      | 507.4                | 405.0                 | 102.36                 | 4.957                     |         |
| 10,500.0  | 7,162.0             | 10,212.8            | 6,928.0             | 60.7            | 59.3        | -62.54                | 3,192.0                           | 367.4      | 507.4                | 402.0                 | 105.41                 | 4.813                     |         |
| 10,600.0  | 7,162.0             | 10,312.8            | 6,928.0             | 62.4            | 61.0        | -62.54                | 3,292.0                           | 367.4      | 507.4                | 398.9                 | 108.46                 | 4.678                     |         |
| 10,700.0  | 7,162.0             | 10,412.8            | 6,928.0             | 64.1            | 62.7        | -62.54                | 3,392.0                           | 367.4      | 507.4                | 395.9                 | 111.51                 | 4.550                     |         |
| 10,800.0  | 7,162.0             | 10,512.8            | 6,928.0             | 65.8            | 64.4        | -62.54                | 3,492.0                           | 367.4      | 507.4                | 392.8                 | 114.57                 | 4.429                     |         |
| 10,900.0  | 7,162.0             | 10,612.8            | 6,928.0             | 67.4            | 66.1        | -62.54                | 3,592.0                           | 367.4      | 507.4                | 389.7                 | 117.63                 | 4.313                     |         |
| 11,000.0  | 7,162.0             | 10,712.8            | 6,928.0             | 69.1            | 67.8        | -62.54                | 3,692.0                           | 367.4      | 507.4                | 386.7                 | 120.69                 | 4.204                     |         |
| 11,100.0  | 7,162.0             | 10,812.8            | 6,928.0             | 70.8            | 69.5        | -62.54                | 3,792.0                           | 367.4      | 507.4                | 383.6                 | 123.76                 | 4.100                     |         |
| 11,200.0  | 7,162.0             | 10,912.8            | 6,928.0             | 72.5            | 71.3        | -62.54                | 3,892.0                           | 367.4      | 507.4                | 380.5                 | 126.83                 | 4.001                     |         |
| 11,300.0  | 7,162.0             | 11,012.8            | 6,928.0             | 74.2            | 73.0        | -62.54                | 3,992.0                           | 367.4      | 507.4                | 377.5                 | 129.90                 | 3.906                     |         |
| 11,400.0  | 7,162.0             | 11,112.8            | 6,928.0             | 75.9            | 74.7        | -62.54                | 4,092.0                           | 367.4      | 507.4                | 374.4                 | 132.97                 | 3.816                     |         |
| 11,500.0  | 7,162.0             | 11,212.8            | 6,928.0             | 77.6            | 76.4        | -62.54                | 4,192.0                           | 367.4      | 507.4                | 371.3                 | 136.04                 | 3.729                     |         |
| 11,600.0  | 7,162.0             | 11,312.8            | 6,928.0             | 79.3            | 78.1        | -62.54                | 4,292.0                           | 367.4      | 507.4                | 368.3                 | 139.12                 | 3.647                     |         |
| 11,700.0  | 7,162.0             | 11,412.8            | 6,928.0             | 81.0            | 79.9        | -62.54                | 4,392.0                           | 367.4      | 507.4                | 365.2                 | 142.20                 | 3.568                     |         |
| 11,772.2  | 7,162.0             | 11,485.0            | 6,928.0             | 82.2            | 81.1        | -62.54                | 4,464.3                           | 367.4      | 507.4                | 362.9                 | 144.43                 | 3.513                     |         |
| 11,801.7  | 7,162.0             | 11,512.7            | 6,928.0             | 82.7            | 81.6        | -62.54                | 4,491.9                           | 367.4      | 507.4                | 362.1                 | 145.31                 | 3.492 SF                  |         |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4G-20H-O264 - 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<br>Toolface<br>(°) | Distance                                |               | Total<br>Uncertainty<br>Axis | Separation<br>Factor | Warning |              |                    |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) |                              |                      |         |              |                    |        |
| 0.0   | 0.0                       | 0.0                       | 0.0                       | 0.0               | 0.0            | -90.10                      | 0.0                                     | -7.6          | 7.6                          |                      |         |              |                    |        |
| 100.0   | 100.0                     | 100.0                     | 100.0                     | 0.1               | 0.1            | -90.10                      | 0.0                                     | -7.6          | 7.6                          | 7.3                  | 0.24    | 30.903       |                    |        |
| 200.0   | 200.0                     | 200.0                     | 200.0                     | 0.3               | 0.3            | -90.10                      | 0.0                                     | -7.6          | 7.6                          | 7.0                  | 0.59    | 12.725       |                    |        |
| 300.0   | 300.0                     | 300.0                     | 300.0                     | 0.5               | 0.5            | -90.10                      | 0.0                                     | -7.6          | 7.6                          | 6.6                  | 0.94    | 8.012        |                    |        |
| 350.0   | 350.0                     | 350.0                     | 350.0                     | 0.6               | 0.6            | -90.10                      | 0.0                                     | -7.6          | 7.6                          | 6.4                  | 1.12    | 6.760 CC, ES |                    |        |
| 400.0   | 400.0                     | 400.0                     | 400.0                     | 0.6               | 0.6            | 159.42                      | 0.0                                     | -7.6          | 7.8                          | 6.5                  | 1.29    | 6.005        |                    |        |
| 500.0   | 500.0                     | 500.1                     | 500.1                     | 0.8               | 0.8            | 160.84                      | -0.4                                    | -6.8          | 8.6                          | 7.0                  | 1.64    | 5.250        |                    |        |
| 600.0   | 599.9                     | 600.3                     | 600.2                     | 1.0               | 1.0            | 160.87                      | -1.6                                    | -4.5          | 9.6                          | 7.6                  | 1.99    | 4.797        |                    |        |
| 700.0   | 699.8                     | 700.4                     | 700.3                     | 1.2               | 1.2            | 159.87                      | -3.7                                    | -0.6          | 10.6                         | 8.2                  | 2.34    | 4.508        |                    |        |
| 800.0   | 799.5                     | 800.6                     | 800.3                     | 1.4               | 1.4            | 158.14                      | -6.5                                    | 4.8           | 11.7                         | 9.0                  | 2.70    | 4.317        |                    |        |
| 900.0   | 899.2                     | 900.8                     | 900.1                     | 1.6               | 1.6            | 155.90                      | -10.2                                   | 11.8          | 12.9                         | 9.8                  | 3.07    | 4.190        |                    |        |
| 1,000.0   | 998.6                     | 1,000.9                   | 999.8                     | 1.8               | 1.8            | 153.32                      | -14.6                                   | 20.3          | 14.2                         | 10.7                 | 3.45    | 4.105        |                    |        |
| 1,100.0   | 1,097.9                   | 1,101.1                   | 1,099.4                   | 2.1               | 2.1            | 150.55                      | -19.9                                   | 30.4          | 15.6                         | 11.7                 | 3.86    | 4.045        |                    |        |
| 1,200.0   | 1,196.9                   | 1,201.4                   | 1,198.8                   | 2.4               | 2.3            | 147.69                      | -26.0                                   | 42.0          | 17.2                         | 12.9                 | 4.30    | 4.000        |                    |        |
| 1,300.0   | 1,295.7                   | 1,301.3                   | 1,297.7                   | 2.7               | 2.6            | 146.43                      | -32.5                                   | 54.4          | 19.5                         | 14.8                 | 4.74    | 4.118        |                    |        |
| 1,400.0   | 1,394.1                   | 1,401.3                   | 1,396.7                   | 3.0               | 2.9            | 147.86                      | -39.0                                   | 66.8          | 23.3                         | 18.2                 | 5.16    | 4.523        |                    |        |
| 1,437.9   | 1,431.4                   | 1,439.2                   | 1,434.2                   | 3.1               | 3.0            | 148.83                      | -41.5                                   | 71.5          | 25.2                         | 19.9                 | 5.31    | 4.742        |                    |        |
| 1,500.0   | 1,492.4                   | 1,501.1                   | 1,495.6                   | 3.4               | 3.2            | 150.36                      | -45.5                                   | 79.1          | 28.4                         | 22.8                 | 5.55    | 5.111        |                    |        |
| 1,600.0   | 1,590.6                   | 1,601.0                   | 1,594.4                   | 3.7               | 3.4            | 152.21                      | -52.0                                   | 91.5          | 33.6                         | 27.6                 | 5.95    | 5.646        |                    |        |
| 1,700.0   | 1,688.8                   | 1,700.8                   | 1,693.3                   | 4.1               | 3.7            | 153.57                      | -58.5                                   | 103.9         | 38.8                         | 32.5                 | 6.34    | 6.116        |                    |        |
| 1,800.0   | 1,787.0                   | 1,800.7                   | 1,792.2                   | 4.4               | 4.0            | 154.60                      | -65.0                                   | 116.3         | 44.0                         | 37.3                 | 6.74    | 6.532        |                    |        |
| 1,900.0   | 1,885.2                   | 1,900.6                   | 1,891.1                   | 4.8               | 4.3            | 155.41                      | -71.5                                   | 128.7         | 49.3                         | 42.1                 | 7.14    | 6.902        |                    |        |
| 2,000.0   | 1,983.4                   | 2,000.4                   | 1,990.0                   | 5.2               | 4.6            | 156.07                      | -78.0                                   | 141.0         | 54.5                         | 47.0                 | 7.54    | 7.233        |                    |        |
| 2,100.0   | 2,081.6                   | 2,100.3                   | 2,088.8                   | 5.5               | 4.9            | 156.61                      | -84.5                                   | 153.4         | 59.8                         | 51.9                 | 7.94    | 7.531        |                    |        |
| 2,200.0   | 2,179.8                   | 2,200.2                   | 2,187.7                   | 5.9               | 5.2            | 157.07                      | -91.0                                   | 165.8         | 65.1                         | 56.7                 | 8.34    | 7.800        |                    |        |
| 2,300.0   | 2,278.0                   | 2,300.0                   | 2,286.6                   | 6.3               | 5.5            | 157.45                      | -97.5                                   | 178.2         | 70.3                         | 61.6                 | 8.74    | 8.045        |                    |        |
| 2,400.0   | 2,376.2                   | 2,399.9                   | 2,385.5                   | 6.6               | 5.8            | 157.79                      | -104.0                                  | 190.5         | 75.6                         | 66.4                 | 9.14    | 8.268        |                    |        |
| 2,500.0   | 2,474.4                   | 2,499.7                   | 2,484.3                   | 7.0               | 6.1            | 158.08                      | -110.5                                  | 202.9         | 80.9                         | 71.3                 | 9.54    | 8.472        |                    |        |
| 2,600.0   | 2,572.6                   | 2,599.6                   | 2,583.2                   | 7.4               | 6.4            | 158.33                      | -117.0                                  | 215.3         | 86.1                         | 76.2                 | 9.95    | 8.660        |                    |        |
| 2,700.0   | 2,670.8                   | 2,699.5                   | 2,682.1                   | 7.7               | 6.7            | 158.55                      | -123.5                                  | 227.7         | 91.4                         | 81.1                 | 10.35   | 8.833        |                    |        |
| 2,800.0   | 2,769.0                   | 2,799.3                   | 2,781.0                   | 8.1               | 7.0            | 158.75                      | -130.0                                  | 240.0         | 96.7                         | 85.9                 | 10.75   | 8.993        |                    |        |
| 2,900.0   | 2,867.2                   | 2,899.2                   | 2,879.8                   | 8.5               | 7.3            | 158.93                      | -136.5                                  | 252.4         | 102.0                        | 90.8                 | 11.15   | 9.142        |                    |        |
| 3,000.0   | 2,965.4                   | 2,999.0                   | 2,978.7                   | 8.9               | 7.6            | 159.09                      | -143.0                                  | 264.8         | 107.2                        | 95.7                 | 11.56   | 9.280        |                    |        |
| 3,100.0   | 3,063.6                   | 3,098.9                   | 3,077.6                   | 9.2               | 7.9            | 159.24                      | -149.5                                  | 277.2         | 112.5                        | 100.6                | 11.96   | 9.409        |                    |        |
| 3,200.0   | 3,161.8                   | 3,198.8                   | 3,176.5                   | 9.6               | 8.2            | 159.37                      | -156.0                                  | 289.6         | 117.8                        | 105.4                | 12.36   | 9.529        |                    |        |
| 3,300.0   | 3,260.0                   | 3,298.6                   | 3,275.4                   | 10.0              | 8.5            | 159.49                      | -162.5                                  | 301.9         | 123.1                        | 110.3                | 12.77   | 9.642        |                    |        |
| 3,400.0   | 3,358.2                   | 3,398.5                   | 3,374.2                   | 10.4              | 8.8            | 159.61                      | -169.0                                  | 314.3         | 128.4                        | 115.2                | 13.17   | 9.748        |                    |        |
| 3,500.0   | 3,456.4                   | 3,498.3                   | 3,473.1                   | 10.7              | 9.1            | 159.71                      | -175.5                                  | 326.7         | 133.6                        | 120.1                | 13.57   | 9.847        |                    |        |
| 3,600.0   | 3,554.6                   | 3,598.2                   | 3,572.0                   | 11.1              | 9.4            | 159.80                      | -182.0                                  | 339.1         | 138.9                        | 124.9                | 13.97   | 9.941        |                    |        |
| 3,700.0   | 3,652.8                   | 3,698.1                   | 3,670.9                   | 11.5              | 9.7            | 159.89                      | -188.5                                  | 351.4         | 144.2                        | 129.8                | 14.38   | 10.029       |                    |        |
| 3,800.0   | 3,751.0                   | 3,797.9                   | 3,769.7                   | 11.9              | 10.0           | 159.97                      | -194.9                                  | 363.8         | 149.5                        | 134.7                | 14.78   | 10.113       |                    |        |
| 3,900.0   | 3,849.2                   | 3,897.8                   | 3,868.6                   | 12.2              | 10.3           | 160.05                      | -201.4                                  | 376.2         | 154.8                        | 139.6                | 15.19   | 10.192       |                    |        |
| 4,000.0   | 3,947.4                   | 3,997.6                   | 3,967.5                   | 12.6              | 10.6           | 160.12                      | -207.9                                  | 388.6         | 160.0                        | 144.5                | 15.59   | 10.267       |                    |        |
| 4,100.0   | 4,045.6                   | 4,097.5                   | 4,066.4                   | 13.0              | 10.9           | 160.19                      | -214.4                                  | 400.9         | 165.3                        | 149.3                | 15.99   | 10.338       |                    |        |
| 4,200.0   | 4,143.8                   | 4,197.4                   | 4,165.2                   | 13.4              | 11.2           | 160.25                      | -220.9                                  | 413.3         | 170.6                        | 154.2                | 16.40   | 10.406       |                    |        |
| 4,300.0   | 4,242.0                   | 4,297.2                   | 4,264.1                   | 13.7              | 11.5           | 160.31                      | -227.4                                  | 425.7         | 175.9                        | 159.1                | 16.80   | 10.470       |                    |        |
| 4,400.0   | 4,340.2                   | 4,397.1                   | 4,363.0                   | 14.1              | 11.8           | 160.37                      | -233.9                                  | 438.1         | 181.2                        | 164.0                | 17.20   | 10.531       |                    |        |
| 4,500.0   | 4,438.4                   | 4,496.9                   | 4,461.9                   | 14.5              | 12.1           | 160.42                      | -240.4                                  | 450.5         | 186.5                        | 168.9                | 17.61   | 10.590       |                    |        |
| 4,600.0   | 4,536.6                   | 4,596.8                   | 4,560.8                   | 14.9              | 12.4           | 160.47                      | -246.9                                  | 462.8         | 191.7                        | 173.7                | 18.01   | 10.646       |                    |        |
| 4,700.0   | 4,634.8                   | 4,696.7                   | 4,659.6                   | 15.2              | 12.7           | 160.51                      | -253.4                                  | 475.2         | 197.0                        | 178.6                | 18.42   | 10.699       |                    |        |
| 4,800.0   | 4,733.0                   | 4,796.5                   | 4,758.5                   | 15.6              | 13.0           | 160.56                      | -259.9                                  | 487.6         | 202.3                        | 183.5                | 18.82   | 10.750       |                    |        |
| 4,900.0   | 4,831.2                   | 4,896.4                   | 4,857.4                   | 16.0              | 13.3           | 160.60                      | -266.4                                  | 500.0         | 207.6                        | 188.4                | 19.22   | 10.799       |                    |        |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4G-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |         |
| 4,988.9   | 4,918.6             | 4,985.2             | 4,945.3             | 16.3            | 13.5        | 160.64                | -272.2                            | 511.0      | 212.3                | 192.7                 | 19.58                  | 10.841            |                           |         |
| 5,000.0   | 4,929.5             | 4,996.2             | 4,956.3             | 16.4            | 13.6        | 160.64                | -272.9                            | 512.3      | 212.9                | 193.2                 | 19.63                  | 10.845            |                           |         |
| 5,100.0   | 5,027.9             | 5,096.1             | 5,055.2             | 16.7            | 13.9        | 160.60                | -279.4                            | 524.7      | 217.2                | 197.1                 | 20.05                  | 10.830            |                           |         |
| 5,200.0   | 5,126.5             | 5,196.1             | 5,154.2             | 17.0            | 14.2        | 160.41                | -285.9                            | 537.1      | 219.8                | 199.3                 | 20.50                  | 10.724            |                           |         |
| 5,300.0   | 5,225.5             | 5,294.2             | 5,251.4             | 17.3            | 14.5        | 160.09                | -292.2                            | 549.1      | 221.0                | 200.1                 | 20.95                  | 10.550            |                           |         |
| 5,400.0   | 5,324.7             | 5,390.9             | 5,347.3             | 17.6            | 14.7        | 159.81                | -297.7                            | 559.5      | 222.0                | 200.6                 | 21.38                  | 10.381            |                           |         |
| 5,500.0   | 5,424.1             | 5,487.5             | 5,443.4             | 17.8            | 15.0        | 159.56                | -302.4                            | 568.6      | 222.8                | 201.0                 | 21.80                  | 10.222            |                           |         |
| 5,600.0   | 5,523.7             | 5,584.2             | 5,539.6             | 18.1            | 15.2        | 159.36                | -306.4                            | 576.1      | 223.5                | 201.3                 | 22.19                  | 10.074            |                           |         |
| 5,700.0   | 5,623.4             | 5,680.8             | 5,636.0             | 18.2            | 15.4        | 159.20                | -309.6                            | 582.3      | 224.1                | 201.5                 | 22.56                  | 9.935             |                           |         |
| 5,800.0   | 5,723.2             | 5,777.5             | 5,732.5             | 18.4            | 15.5        | 159.07                | -312.1                            | 587.0      | 224.5                | 201.6                 | 22.90                  | 9.804             |                           |         |
| 5,900.0   | 5,823.2             | 5,874.1             | 5,829.1             | 18.6            | 15.7        | 158.99                | -313.8                            | 590.3      | 224.8                | 201.6                 | 23.23                  | 9.681             |                           |         |
| 6,000.0   | 5,923.1             | 5,970.7             | 5,925.7             | 18.7            | 15.8        | 158.94                | -314.8                            | 592.1      | 225.0                | 201.5                 | 23.53                  | 9.564             |                           |         |
| 6,076.9   | 6,000.0             | 6,045.0             | 6,000.0             | 18.7            | 15.9        | -90.00                | -315.0                            | 592.5      | 225.1                | 201.3                 | 23.75                  | 9.477             |                           |         |
| 6,100.0   | 6,023.1             | 6,068.1             | 6,023.1             | 18.8            | 15.9        | -90.00                | -315.0                            | 592.5      | 225.1                | 201.2                 | 23.82                  | 9.449             |                           |         |
| 6,200.0   | 6,123.1             | 6,168.1             | 6,123.1             | 18.9            | 16.0        | -90.00                | -315.0                            | 592.5      | 225.1                | 200.9                 | 24.13                  | 9.327             |                           |         |
| 6,300.0   | 6,223.1             | 6,268.1             | 6,223.1             | 19.0            | 16.1        | -90.00                | -315.0                            | 592.5      | 225.1                | 200.6                 | 24.44                  | 9.208             |                           |         |
| 6,400.0   | 6,323.1             | 6,368.1             | 6,323.1             | 19.1            | 16.3        | -90.00                | -315.0                            | 592.5      | 225.1                | 200.3                 | 24.75                  | 9.092             |                           |         |
| 6,500.0   | 6,423.1             | 6,468.1             | 6,423.1             | 19.2            | 16.4        | -90.00                | -315.0                            | 592.5      | 225.1                | 200.0                 | 25.07                  | 8.978             |                           |         |
| 6,541.0   | 6,464.1             | 6,509.2             | 6,464.1             | 19.2            | 16.4        | -89.95                | -314.8                            | 592.5      | 225.1                | 199.9                 | 25.18                  | 8.939             |                           |         |
| 6,600.0   | 6,523.1             | 6,567.7             | 6,522.5             | 19.3            | 16.5        | -88.77                | -310.2                            | 592.5      | 225.1                | 200.0                 | 25.09                  | 8.973             |                           |         |
| 6,665.9   | 6,589.0             | 6,631.3             | 6,585.0             | 19.3            | 16.4        | -85.78                | -298.4                            | 592.5      | 225.7                | 201.0                 | 24.68                  | 9.144             |                           |         |
| 6,700.0   | 6,623.1             | 6,663.3             | 6,615.7             | 19.4            | 16.4        | -83.80                | -289.9                            | 592.5      | 226.5                | 202.0                 | 24.41                  | 9.277             |                           |         |
| 6,750.0   | 6,672.8             | 6,709.4             | 6,659.3             | 19.4            | 16.4        | -80.96                | -274.7                            | 592.5      | 228.0                | 204.0                 | 24.06                  | 9.478             |                           |         |
| 6,800.0   | 6,721.9             | 6,754.8             | 6,700.7             | 19.4            | 16.4        | -78.24                | -256.3                            | 592.5      | 230.1                | 206.3                 | 23.80                  | 9.670             |                           |         |
| 6,850.0   | 6,770.0             | 6,800.0             | 6,740.5             | 19.4            | 16.3        | -75.64                | -234.7                            | 592.5      | 232.6                | 209.0                 | 23.63                  | 9.846             |                           |         |
| 6,900.0   | 6,816.7             | 6,843.4             | 6,777.0             | 19.3            | 16.3        | -73.24                | -211.2                            | 592.5      | 235.4                | 211.9                 | 23.55                  | 9.999             |                           |         |
| 6,950.0   | 6,861.6             | 6,886.8             | 6,811.5             | 19.3            | 16.2        | -70.99                | -185.0                            | 592.5      | 238.5                | 215.0                 | 23.54                  | 10.134            |                           |         |
| 7,000.0   | 6,904.5             | 6,929.7             | 6,843.6             | 19.3            | 16.2        | -68.91                | -156.5                            | 592.5      | 241.7                | 218.1                 | 23.57                  | 10.254            |                           |         |
| 7,050.0   | 6,945.0             | 6,972.1             | 6,873.2             | 19.2            | 16.2        | -67.02                | -126.1                            | 592.5      | 245.0                | 221.3                 | 23.63                  | 10.366            |                           |         |
| 7,100.0   | 6,982.8             | 7,014.1             | 6,900.2             | 19.2            | 16.2        | -65.31                | -94.0                             | 592.5      | 248.2                | 224.5                 | 23.70                  | 10.473            |                           |         |
| 7,150.0   | 7,017.6             | 7,055.7             | 6,924.5             | 19.2            | 16.2        | -63.78                | -60.3                             | 592.5      | 251.3                | 227.6                 | 23.76                  | 10.579            |                           |         |
| 7,200.0   | 7,049.1             | 7,100.0             | 6,947.7             | 19.2            | 16.2        | -62.37                | -22.5                             | 592.5      | 254.3                | 230.5                 | 23.80                  | 10.683            |                           |         |
| 7,250.0   | 7,077.1             | 7,138.0             | 6,965.2             | 19.2            | 16.3        | -61.28                | 11.2                              | 592.5      | 257.0                | 233.2                 | 23.79                  | 10.802            |                           |         |
| 7,300.0   | 7,101.4             | 7,178.7             | 6,981.4             | 19.2            | 16.4        | -60.29                | 48.6                              | 592.5      | 259.4                | 235.5                 | 23.85                  | 10.877            |                           |         |
| 7,350.0   | 7,121.8             | 7,219.3             | 6,994.9             | 19.3            | 16.5        | -59.48                | 86.8                              | 592.5      | 261.4                | 237.5                 | 23.88                  | 10.949            |                           |         |
| 7,400.0   | 7,138.1             | 7,259.7             | 7,005.5             | 19.4            | 16.6        | -58.85                | 125.8                             | 592.5      | 263.1                | 239.2                 | 23.92                  | 11.000            |                           |         |
| 7,450.0   | 7,150.3             | 7,300.0             | 7,013.5             | 19.6            | 16.8        | -58.38                | 165.3                             | 592.5      | 264.4                | 240.4                 | 23.99                  | 11.020            |                           |         |
| 7,500.0   | 7,158.2             | 7,340.2             | 7,018.6             | 19.8            | 17.0        | -58.08                | 205.1                             | 592.5      | 265.2                | 241.1                 | 24.11                  | 11.001            |                           |         |
| 7,550.0   | 7,161.8             | 7,380.3             | 7,020.9             | 20.0            | 17.2        | -57.94                | 245.2                             | 592.5      | 265.6                | 241.3                 | 24.28                  | 10.939            |                           |         |
| 7,565.9   | 7,162.0             | 7,393.1             | 7,021.0             | 20.1            | 17.3        | -57.93                | 258.0                             | 592.5      | 265.6                | 241.2                 | 24.34                  | 10.911            |                           |         |
| 7,600.0   | 7,162.0             | 7,427.2             | 7,021.0             | 20.3            | 17.5        | -57.93                | 292.0                             | 592.5      | 265.6                | 240.7                 | 24.84                  | 10.691            |                           |         |
| 7,700.0   | 7,162.0             | 7,527.2             | 7,021.0             | 20.9            | 18.3        | -57.93                | 392.0                             | 592.5      | 265.6                | 239.1                 | 26.45                  | 10.042            |                           |         |
| 7,800.0   | 7,162.0             | 7,627.2             | 7,021.0             | 21.7            | 19.2        | -57.93                | 492.0                             | 592.5      | 265.6                | 237.3                 | 28.28                  | 9.393             |                           |         |
| 7,900.0   | 7,162.0             | 7,727.2             | 7,021.0             | 22.6            | 20.2        | -57.93                | 592.0                             | 592.5      | 265.6                | 235.3                 | 30.29                  | 8.769             |                           |         |
| 8,000.0   | 7,162.0             | 7,827.2             | 7,021.0             | 23.6            | 21.3        | -57.93                | 692.0                             | 592.5      | 265.6                | 233.1                 | 32.45                  | 8.185             |                           |         |
| 8,100.0   | 7,162.0             | 7,927.2             | 7,021.0             | 24.6            | 22.4        | -57.93                | 792.0                             | 592.5      | 265.6                | 230.8                 | 34.73                  | 7.647             |                           |         |
| 8,200.0   | 7,162.0             | 8,027.2             | 7,021.0             | 25.8            | 23.7        | -57.93                | 892.0                             | 592.5      | 265.6                | 228.5                 | 37.11                  | 7.156             |                           |         |
| 8,300.0   | 7,162.0             | 8,127.2             | 7,021.0             | 27.0            | 25.0        | -57.93                | 992.0                             | 592.5      | 265.6                | 226.0                 | 39.58                  | 6.710             |                           |         |
| 8,400.0   | 7,162.0             | 8,227.2             | 7,021.0             | 28.2            | 26.4        | -57.93                | 1,092.0                           | 592.5      | 265.6                | 223.5                 | 42.11                  | 6.307             |                           |         |
| 8,500.0   | 7,162.0             | 8,327.2             | 7,021.0             | 29.6            | 27.8        | -57.93                | 1,192.0                           | 592.5      | 265.6                | 220.9                 | 44.69                  | 5.942             |                           |         |
| 8,600.0   | 7,162.0             | 8,427.2             | 7,021.0             | 30.9            | 29.2        | -57.93                | 1,292.0                           | 592.5      | 265.6                | 218.3                 | 47.33                  | 5.612             |                           |         |
| 8,700.0   | 7,162.0             | 8,527.2             | 7,021.0             | 32.3            | 30.7        | -57.93                | 1,392.0                           | 592.5      | 265.6                | 215.6                 | 50.00                  | 5.312             |                           |         |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4G-20H-O264 - 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 |                    |        |
| 8,800.0   | 7,162.0             | 8,627.2             | 7,021.0             | 33.7            | 32.2        | -57.93                | 1,492.0                           | 592.5      | 265.6                | 212.9                 | 52.70            | 5.039             |                    |        |
| 8,900.0   | 7,162.0             | 8,727.2             | 7,021.0             | 35.2            | 33.7        | -57.93                | 1,592.0                           | 592.5      | 265.6                | 210.2                 | 55.43            | 4.791             |                    |        |
| 9,000.0   | 7,162.0             | 8,827.2             | 7,021.0             | 36.7            | 35.3        | -57.93                | 1,692.0                           | 592.5      | 265.6                | 207.4                 | 58.19            | 4.564             |                    |        |
| 9,100.0   | 7,162.0             | 8,927.2             | 7,021.0             | 38.2            | 36.8        | -57.93                | 1,792.0                           | 592.5      | 265.6                | 204.6                 | 60.97            | 4.356             |                    |        |
| 9,200.0   | 7,162.0             | 9,027.2             | 7,021.0             | 39.7            | 38.4        | -57.93                | 1,892.0                           | 592.5      | 265.6                | 201.8                 | 63.77            | 4.165             |                    |        |
| 9,300.0   | 7,162.0             | 9,127.2             | 7,021.0             | 41.3            | 40.0        | -57.93                | 1,992.0                           | 592.5      | 265.6                | 199.0                 | 66.58            | 3.989             |                    |        |
| 9,400.0   | 7,162.0             | 9,227.2             | 7,021.0             | 42.8            | 41.6        | -57.93                | 2,092.0                           | 592.5      | 265.6                | 196.2                 | 69.40            | 3.827             |                    |        |
| 9,500.0   | 7,162.0             | 9,327.2             | 7,021.0             | 44.4            | 43.2        | -57.93                | 2,192.0                           | 592.5      | 265.6                | 193.3                 | 72.24            | 3.676             |                    |        |
| 9,600.0   | 7,162.0             | 9,427.2             | 7,021.0             | 46.0            | 44.9        | -57.93                | 2,292.0                           | 592.5      | 265.6                | 190.5                 | 75.09            | 3.537             |                    |        |
| 9,700.0   | 7,162.0             | 9,527.2             | 7,021.0             | 47.6            | 46.5        | -57.93                | 2,392.0                           | 592.5      | 265.6                | 187.6                 | 77.95            | 3.407             |                    |        |
| 9,800.0   | 7,162.0             | 9,627.2             | 7,021.0             | 49.2            | 48.2        | -57.93                | 2,492.0                           | 592.5      | 265.6                | 184.8                 | 80.82            | 3.286             |                    |        |
| 9,900.0   | 7,162.0             | 9,727.2             | 7,021.0             | 50.9            | 49.8        | -57.93                | 2,592.0                           | 592.5      | 265.6                | 181.9                 | 83.70            | 3.173             |                    |        |
| 10,000.0  | 7,162.0             | 9,827.2             | 7,021.0             | 52.5            | 51.5        | -57.93                | 2,692.0                           | 592.5      | 265.6                | 179.0                 | 86.58            | 3.068             |                    |        |
| 10,100.0  | 7,162.0             | 9,927.2             | 7,021.0             | 54.1            | 53.1        | -57.94                | 2,792.0                           | 592.5      | 265.6                | 176.1                 | 89.47            | 2.969             |                    |        |
| 10,200.0  | 7,162.0             | 10,027.2            | 7,021.0             | 55.8            | 54.8        | -57.94                | 2,892.0                           | 592.5      | 265.6                | 173.2                 | 92.36            | 2.876             |                    |        |
| 10,300.0  | 7,162.0             | 10,127.2            | 7,021.0             | 57.4            | 56.5        | -57.94                | 2,992.0                           | 592.5      | 265.6                | 170.3                 | 95.26            | 2.788             |                    |        |
| 10,400.0  | 7,162.0             | 10,227.2            | 7,021.0             | 59.1            | 58.2        | -57.94                | 3,092.0                           | 592.5      | 265.6                | 167.4                 | 98.17            | 2.705             |                    |        |
| 10,500.0  | 7,162.0             | 10,327.2            | 7,021.0             | 60.7            | 59.9        | -57.94                | 3,192.0                           | 592.5      | 265.6                | 164.5                 | 101.08           | 2.628             |                    |        |
| 10,600.0  | 7,162.0             | 10,427.2            | 7,021.0             | 62.4            | 61.6        | -57.94                | 3,292.0                           | 592.5      | 265.6                | 161.6                 | 103.99           | 2.554             |                    |        |
| 10,700.0  | 7,162.0             | 10,527.2            | 7,021.0             | 64.1            | 63.3        | -57.94                | 3,392.0                           | 592.5      | 265.6                | 158.7                 | 106.91           | 2.484             |                    |        |
| 10,800.0  | 7,162.0             | 10,627.2            | 7,021.0             | 65.8            | 65.0        | -57.94                | 3,492.0                           | 592.5      | 265.6                | 155.8                 | 109.83           | 2.418             |                    |        |
| 10,900.0  | 7,162.0             | 10,727.2            | 7,021.0             | 67.4            | 66.7        | -57.94                | 3,592.0                           | 592.5      | 265.6                | 152.8                 | 112.76           | 2.356             |                    |        |
| 11,000.0  | 7,162.0             | 10,827.2            | 7,021.0             | 69.1            | 68.4        | -57.94                | 3,692.0                           | 592.5      | 265.6                | 149.9                 | 115.68           | 2.296             |                    |        |
| 11,100.0  | 7,162.0             | 10,927.2            | 7,021.0             | 70.8            | 70.1        | -57.94                | 3,792.0                           | 592.5      | 265.6                | 147.0                 | 118.61           | 2.239             |                    |        |
| 11,200.0  | 7,162.0             | 11,027.2            | 7,021.0             | 72.5            | 71.8        | -57.94                | 3,892.0                           | 592.5      | 265.6                | 144.1                 | 121.54           | 2.185             |                    |        |
| 11,300.0  | 7,162.0             | 11,127.2            | 7,021.0             | 74.2            | 73.5        | -57.94                | 3,992.0                           | 592.5      | 265.6                | 141.1                 | 124.48           | 2.134             |                    |        |
| 11,400.0  | 7,162.0             | 11,227.2            | 7,021.0             | 75.9            | 75.2        | -57.94                | 4,092.0                           | 592.5      | 265.6                | 138.2                 | 127.41           | 2.085             |                    |        |
| 11,500.0  | 7,162.0             | 11,327.2            | 7,021.0             | 77.6            | 76.9        | -57.94                | 4,192.0                           | 592.5      | 265.6                | 135.3                 | 130.35           | 2.038             |                    |        |
| 11,600.0  | 7,162.0             | 11,427.2            | 7,021.0             | 79.3            | 78.6        | -57.94                | 4,292.0                           | 592.5      | 265.6                | 132.3                 | 133.29           | 1.993             |                    |        |
| 11,700.0  | 7,162.0             | 11,527.2            | 7,021.0             | 81.0            | 80.3        | -57.94                | 4,392.0                           | 592.5      | 265.6                | 129.4                 | 136.23           | 1.950             |                    |        |
| 11,761.9  | 7,162.0             | 11,589.0            | 7,021.0             | 82.1            | 81.4        | -57.94                | 4,453.9                           | 592.5      | 265.6                | 127.6                 | 138.06           | 1.924             |                    |        |
| 11,801.7  | 7,162.0             | 11,628.2            | 7,021.0             | 82.7            | 82.1        | -57.94                | 4,493.0                           | 592.5      | 265.6                | 126.4                 | 139.22           | 1.908 SF          |                    |        |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4I-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program:   |                     | 0-Geolink MWD       |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |         |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | 90.00                 | 0.0                               | 7.6        | 7.6                  |                       |                        |                   |                    |         |
| 100.0   | 100.0               | 100.0               | 100.0               | 0.1             | 0.1         | 90.00                 | 0.0                               | 7.6        | 7.6                  | 7.3                   | 0.24                   | 30.903            |                    |         |
| 200.0   | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | 90.00                 | 0.0                               | 7.6        | 7.6                  | 7.0                   | 0.59                   | 12.725            |                    |         |
| 300.0   | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | 90.00                 | 0.0                               | 7.6        | 7.6                  | 6.6                   | 0.94                   | 8.012 CC, ES      |                    |         |
| 350.0   | 350.0               | 349.9               | 349.9               | 0.6             | 0.6         | 90.91                 | -0.1                              | 8.0        | 8.0                  | 6.9                   | 1.12                   | 7.129             |                    |         |
| 400.0   | 400.0               | 399.7               | 399.7               | 0.6             | 0.6         | -18.35                | -0.5                              | 9.2        | 9.0                  | 7.7                   | 1.29                   | 6.988             |                    |         |
| 500.0   | 500.0               | 499.3               | 499.1               | 0.8             | 0.8         | -14.98                | -2.0                              | 14.2       | 12.4                 | 10.8                  | 1.64                   | 7.589             |                    |         |
| 600.0   | 599.9               | 598.6               | 598.1               | 1.0             | 1.1         | -12.60                | -4.5                              | 22.4       | 17.6                 | 15.6                  | 1.99                   | 8.861             |                    |         |
| 700.0   | 699.8               | 697.7               | 696.4               | 1.2             | 1.3         | -11.09                | -8.0                              | 33.9       | 24.5                 | 22.2                  | 2.34                   | 10.499            |                    |         |
| 800.0   | 799.5               | 796.3               | 793.9               | 1.4             | 1.6         | -10.14                | -12.5                             | 48.6       | 33.2                 | 30.5                  | 2.69                   | 12.352            |                    |         |
| 900.0   | 899.2               | 894.5               | 890.2               | 1.6             | 2.0         | -9.53                 | -17.9                             | 66.4       | 43.5                 | 40.5                  | 3.03                   | 14.340            |                    |         |
| 1,000.0   | 998.6               | 993.0               | 986.4               | 1.8             | 2.4         | -9.15                 | -24.2                             | 87.0       | 55.1                 | 51.7                  | 3.38                   | 16.287            |                    |         |
| 1,100.0   | 1,097.9             | 1,092.5             | 1,083.3             | 2.1             | 2.8         | -9.11                 | -30.6                             | 108.2      | 65.4                 | 61.7                  | 3.73                   | 17.515            |                    |         |
| 1,200.0   | 1,196.9             | 1,192.1             | 1,180.5             | 2.4             | 3.2         | -9.29                 | -37.1                             | 129.4      | 74.0                 | 69.9                  | 4.09                   | 18.101            |                    |         |
| 1,300.0   | 1,295.7             | 1,291.9             | 1,277.7             | 2.7             | 3.6         | -9.64                 | -43.6                             | 150.7      | 80.9                 | 76.5                  | 4.45                   | 18.195            |                    |         |
| 1,400.0   | 1,394.1             | 1,391.7             | 1,375.0             | 3.0             | 4.0         | -10.13                | -50.1                             | 172.0      | 86.1                 | 81.3                  | 4.81                   | 17.903            |                    |         |
| 1,437.9   | 1,431.4             | 1,429.6             | 1,412.0             | 3.1             | 4.2         | -10.36                | -52.5                             | 180.1      | 87.6                 | 82.6                  | 4.95                   | 17.707            |                    |         |
| 1,500.0   | 1,492.4             | 1,491.7             | 1,472.5             | 3.4             | 4.4         | -10.74                | -56.5                             | 193.3      | 89.9                 | 84.7                  | 5.18                   | 17.357            |                    |         |
| 1,600.0   | 1,590.6             | 1,591.6             | 1,569.9             | 3.7             | 4.9         | -11.32                | -63.0                             | 214.6      | 93.6                 | 88.0                  | 5.55                   | 16.845            |                    |         |
| 1,700.0   | 1,688.8             | 1,691.5             | 1,667.3             | 4.1             | 5.3         | -11.85                | -69.5                             | 236.0      | 97.3                 | 91.3                  | 5.93                   | 16.390            |                    |         |
| 1,800.0   | 1,787.0             | 1,791.4             | 1,764.7             | 4.4             | 5.7         | -12.34                | -76.0                             | 257.3      | 101.0                | 94.6                  | 6.32                   | 15.981            |                    |         |
| 1,900.0   | 1,885.2             | 1,891.4             | 1,862.1             | 4.8             | 6.2         | -12.80                | -82.5                             | 278.6      | 104.7                | 98.0                  | 6.70                   | 15.612            |                    |         |
| 2,000.0   | 1,983.4             | 1,991.3             | 1,959.5             | 5.2             | 6.6         | -13.23                | -89.0                             | 299.9      | 108.4                | 101.3                 | 7.09                   | 15.277            |                    |         |
| 2,100.0   | 2,081.6             | 2,091.2             | 2,056.9             | 5.5             | 7.0         | -13.63                | -95.5                             | 321.2      | 112.1                | 104.6                 | 7.49                   | 14.971            |                    |         |
| 2,200.0   | 2,179.8             | 2,191.1             | 2,154.3             | 5.9             | 7.4         | -14.00                | -102.0                            | 342.5      | 115.8                | 107.9                 | 7.88                   | 14.691            |                    |         |
| 2,300.0   | 2,278.0             | 2,291.1             | 2,251.8             | 6.3             | 7.9         | -14.35                | -108.4                            | 363.8      | 119.6                | 111.3                 | 8.28                   | 14.434            |                    |         |
| 2,400.0   | 2,376.2             | 2,391.0             | 2,349.2             | 6.6             | 8.3         | -14.68                | -114.9                            | 385.2      | 123.3                | 114.6                 | 8.68                   | 14.196            |                    |         |
| 2,500.0   | 2,474.4             | 2,490.9             | 2,446.6             | 7.0             | 8.7         | -14.99                | -121.4                            | 406.5      | 127.0                | 117.9                 | 9.09                   | 13.976            |                    |         |
| 2,600.0   | 2,572.6             | 2,590.9             | 2,544.0             | 7.4             | 9.2         | -15.28                | -127.9                            | 427.8      | 130.8                | 121.3                 | 9.49                   | 13.772            |                    |         |
| 2,700.0   | 2,670.8             | 2,690.8             | 2,641.4             | 7.7             | 9.6         | -15.56                | -134.4                            | 449.1      | 134.5                | 124.6                 | 9.90                   | 13.582            |                    |         |
| 2,800.0   | 2,769.0             | 2,790.7             | 2,738.8             | 8.1             | 10.0        | -15.82                | -140.9                            | 470.4      | 138.3                | 127.9                 | 10.31                  | 13.405            |                    |         |
| 2,900.0   | 2,867.2             | 2,890.6             | 2,836.2             | 8.5             | 10.5        | -16.06                | -147.4                            | 491.7      | 142.0                | 131.3                 | 10.73                  | 13.239            |                    |         |
| 3,000.0   | 2,965.4             | 2,990.6             | 2,933.6             | 8.9             | 10.9        | -16.30                | -153.9                            | 513.0      | 145.8                | 134.6                 | 11.14                  | 13.083            |                    |         |
| 3,100.0   | 3,063.6             | 3,090.5             | 3,031.1             | 9.2             | 11.3        | -16.52                | -160.3                            | 534.4      | 149.5                | 138.0                 | 11.56                  | 12.937            |                    |         |
| 3,200.0   | 3,161.8             | 3,190.4             | 3,128.5             | 9.6             | 11.8        | -16.73                | -166.8                            | 555.7      | 153.3                | 141.3                 | 11.97                  | 12.800            |                    |         |
| 3,300.0   | 3,260.0             | 3,290.4             | 3,225.9             | 10.0            | 12.2        | -16.93                | -173.3                            | 577.0      | 157.0                | 144.6                 | 12.39                  | 12.670            |                    |         |
| 3,400.0   | 3,358.2             | 3,390.3             | 3,323.3             | 10.4            | 12.6        | -17.12                | -179.8                            | 598.3      | 160.8                | 148.0                 | 12.81                  | 12.548            |                    |         |
| 3,500.0   | 3,456.4             | 3,490.2             | 3,420.7             | 10.7            | 13.1        | -17.31                | -186.3                            | 619.6      | 164.5                | 151.3                 | 13.23                  | 12.433            |                    |         |
| 3,600.0   | 3,554.6             | 3,590.1             | 3,518.1             | 11.1            | 13.5        | -17.48                | -192.8                            | 640.9      | 168.3                | 154.6                 | 13.66                  | 12.323            |                    |         |
| 3,700.0   | 3,652.8             | 3,690.1             | 3,615.5             | 11.5            | 13.9        | -17.65                | -199.3                            | 662.2      | 172.1                | 158.0                 | 14.08                  | 12.220            |                    |         |
| 3,800.0   | 3,751.0             | 3,790.0             | 3,712.9             | 11.9            | 14.4        | -17.81                | -205.8                            | 683.6      | 175.8                | 161.3                 | 14.51                  | 12.121            |                    |         |
| 3,900.0   | 3,849.2             | 3,889.9             | 3,810.4             | 12.2            | 14.8        | -17.96                | -212.3                            | 704.9      | 179.6                | 164.7                 | 14.93                  | 12.027            |                    |         |
| 4,000.0   | 3,947.4             | 3,989.8             | 3,907.8             | 12.6            | 15.2        | -18.11                | -218.7                            | 726.2      | 183.4                | 168.0                 | 15.36                  | 11.938            |                    |         |
| 4,100.0   | 4,045.6             | 4,089.8             | 4,005.2             | 13.0            | 15.7        | -18.25                | -225.2                            | 747.5      | 187.1                | 171.4                 | 15.79                  | 11.853            |                    |         |
| 4,200.0   | 4,143.8             | 4,189.7             | 4,102.6             | 13.4            | 16.1        | -18.39                | -231.7                            | 768.8      | 190.9                | 174.7                 | 16.22                  | 11.773            |                    |         |
| 4,300.0   | 4,242.0             | 4,289.6             | 4,200.0             | 13.7            | 16.5        | -18.52                | -238.2                            | 790.1      | 194.7                | 178.0                 | 16.65                  | 11.695            |                    |         |
| 4,400.0   | 4,340.2             | 4,389.6             | 4,297.4             | 14.1            | 17.0        | -18.64                | -244.7                            | 811.5      | 198.5                | 181.4                 | 17.08                  | 11.621            |                    |         |
| 4,500.0   | 4,438.4             | 4,489.5             | 4,394.8             | 14.5            | 17.4        | -18.76                | -251.2                            | 832.8      | 202.2                | 184.7                 | 17.51                  | 11.551            |                    |         |
| 4,600.0   | 4,536.6             | 4,589.4             | 4,492.2             | 14.9            | 17.8        | -18.88                | -257.7                            | 854.1      | 206.0                | 188.1                 | 17.94                  | 11.483            |                    |         |
| 4,700.0   | 4,634.8             | 4,689.3             | 4,589.7             | 15.2            | 18.3        | -18.99                | -264.2                            | 875.4      | 209.8                | 191.4                 | 18.37                  | 11.418            |                    |         |
| 4,800.0   | 4,733.0             | 4,789.3             | 4,687.1             | 15.6            | 18.7        | -19.10                | -270.6                            | 896.7      | 213.6                | 194.8                 | 18.81                  | 11.356            |                    |         |
| 4,900.0   | 4,831.2             | 4,891.6             | 4,786.9             | 16.0            | 19.1        | -19.23                | -277.2                            | 918.2      | 217.0                | 197.7                 | 19.25                  | 11.272            |                    |         |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4I-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|--------------------|---------|
| Survey Program:   |                     | 0-Geolink MWD       |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Well Error: | 0.0 ft  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                    | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor  |         |
| 4,988.9   | 4,918.6             | 4,983.9             | 4,877.3             | 16.3            | 19.5        | -19.45                | -282.7                            | 936.2      | 218.7                | 199.0                 | 19.67                  | 11.117             |         |
| 5,000.0   | 4,929.5             | 4,995.4             | 4,888.5             | 16.4            | 19.5        | -19.49                | -283.3                            | 938.3      | 218.8                | 199.1                 | 19.72                  | 11.093             |         |
| 5,100.0   | 5,027.9             | 5,099.2             | 4,990.6             | 16.7            | 19.9        | -19.77                | -288.9                            | 956.7      | 219.9                | 199.7                 | 20.20                  | 10.886             |         |
| 5,200.0   | 5,126.5             | 5,203.1             | 5,092.9             | 17.0            | 20.2        | -20.03                | -294.0                            | 973.3      | 220.8                | 200.2                 | 20.65                  | 10.692             |         |
| 5,300.0   | 5,225.5             | 5,306.9             | 5,195.6             | 17.3            | 20.6        | -20.25                | -298.5                            | 988.2      | 221.7                | 200.6                 | 21.09                  | 10.511             |         |
| 5,400.0   | 5,324.7             | 5,410.8             | 5,298.6             | 17.6            | 20.8        | -20.45                | -302.5                            | 1,001.2    | 222.4                | 200.9                 | 21.51                  | 10.341             |         |
| 5,500.0   | 5,424.1             | 5,514.6             | 5,401.8             | 17.8            | 21.1        | -20.62                | -305.9                            | 1,012.5    | 223.1                | 201.2                 | 21.91                  | 10.182             |         |
| 5,600.0   | 5,523.7             | 5,618.5             | 5,505.2             | 18.1            | 21.3        | -20.77                | -308.8                            | 1,022.0    | 223.6                | 201.4                 | 22.29                  | 10.033             |         |
| 5,700.0   | 5,623.4             | 5,722.4             | 5,608.7             | 18.2            | 21.5        | -20.88                | -311.1                            | 1,029.7    | 224.1                | 201.4                 | 22.65                  | 9.892              |         |
| 5,800.0   | 5,723.2             | 5,826.3             | 5,712.5             | 18.4            | 21.7        | -20.97                | -312.9                            | 1,035.5    | 224.4                | 201.4                 | 23.00                  | 9.760              |         |
| 5,900.0   | 5,823.2             | 5,930.2             | 5,816.3             | 18.6            | 21.8        | -21.03                | -314.1                            | 1,039.6    | 224.7                | 201.4                 | 23.32                  | 9.635              |         |
| 6,000.0   | 5,923.1             | 6,034.1             | 5,920.1             | 18.7            | 21.9        | -21.06                | -314.8                            | 1,041.9    | 224.8                | 201.2                 | 23.62                  | 9.517              |         |
| 6,076.9   | 6,000.0             | 6,114.0             | 6,000.0             | 18.7            | 22.0        | 90.00                 | -315.0                            | 1,042.5    | 224.9                | 201.0                 | 23.84                  | 9.430              |         |
| 6,100.0   | 6,023.1             | 6,137.1             | 6,023.1             | 18.8            | 22.0        | 90.00                 | -315.0                            | 1,042.5    | 224.9                | 200.9                 | 23.92                  | 9.402              |         |
| 6,200.0   | 6,123.1             | 6,237.1             | 6,123.1             | 18.9            | 22.1        | 90.00                 | -315.0                            | 1,042.5    | 224.9                | 200.6                 | 24.23                  | 9.281              |         |
| 6,300.0   | 6,223.1             | 6,337.1             | 6,223.1             | 19.0            | 22.2        | 90.00                 | -315.0                            | 1,042.5    | 224.9                | 200.3                 | 24.54                  | 9.163              |         |
| 6,400.0   | 6,323.1             | 6,437.1             | 6,323.1             | 19.1            | 22.3        | 90.00                 | -315.0                            | 1,042.5    | 224.9                | 200.0                 | 24.85                  | 9.048              |         |
| 6,443.8   | 6,367.0             | 6,480.9             | 6,366.9             | 19.1            | 22.3        | 89.97                 | -314.9                            | 1,042.5    | 224.9                | 199.9                 | 24.99                  | 8.997              |         |
| 6,500.0   | 6,423.1             | 6,536.8             | 6,422.6             | 19.2            | 22.3        | 88.98                 | -311.0                            | 1,042.5    | 224.9                | 199.5                 | 25.38                  | 8.862              |         |
| 6,600.0   | 6,523.1             | 6,632.5             | 6,516.3             | 19.3            | 22.3        | 84.12                 | -291.8                            | 1,042.5    | 226.1                | 199.3                 | 26.82                  | 8.430              |         |
| 6,665.9   | 6,589.0             | 6,691.1             | 6,571.7             | 19.3            | 22.3        | 79.29                 | -272.5                            | 1,042.5    | 229.5                | 201.3                 | 28.25                  | 8.125              |         |
| 6,700.0   | 6,623.1             | 6,720.1             | 6,598.2             | 19.4            | 22.3        | 76.37                 | -260.8                            | 1,042.5    | 232.4                | 203.3                 | 29.10                  | 7.985              |         |
| 6,750.0   | 6,672.8             | 6,761.8             | 6,635.2             | 19.4            | 22.2        | 72.29                 | -241.8                            | 1,042.5    | 237.6                | 207.4                 | 30.20                  | 7.869              |         |
| 6,800.0   | 6,721.9             | 6,800.0             | 6,667.9             | 19.4            | 22.2        | 68.68                 | -222.0                            | 1,042.5    | 243.8                | 212.8                 | 30.99                  | 7.868              |         |
| 6,850.0   | 6,770.0             | 6,842.5             | 6,702.7             | 19.4            | 22.2        | 64.98                 | -197.5                            | 1,042.5    | 250.7                | 219.2                 | 31.56                  | 7.945              |         |
| 6,900.0   | 6,816.7             | 6,881.8             | 6,733.1             | 19.3            | 22.1        | 61.79                 | -172.6                            | 1,042.5    | 258.1                | 226.4                 | 31.75                  | 8.129              |         |
| 6,950.0   | 6,861.6             | 6,920.5             | 6,761.2             | 19.3            | 22.1        | 58.91                 | -146.1                            | 1,042.5    | 265.7                | 234.1                 | 31.61                  | 8.406              |         |
| 7,000.0   | 6,904.5             | 6,958.6             | 6,787.2             | 19.3            | 22.1        | 56.32                 | -118.2                            | 1,042.5    | 273.4                | 242.2                 | 31.16                  | 8.774              |         |
| 7,050.0   | 6,945.0             | 7,000.0             | 6,813.2             | 19.2            | 22.1        | 53.88                 | -86.1                             | 1,042.4    | 281.0                | 250.5                 | 30.44                  | 9.229              |         |
| 7,100.0   | 6,982.8             | 7,033.5             | 6,832.6             | 19.2            | 22.1        | 52.01                 | -58.7                             | 1,042.4    | 288.2                | 258.7                 | 29.47                  | 9.778              |         |
| 7,150.0   | 7,017.6             | 7,070.4             | 6,851.9             | 19.2            | 22.1        | 50.25                 | -27.3                             | 1,042.4    | 295.0                | 266.7                 | 28.27                  | 10.435             |         |
| 7,200.0   | 7,049.1             | 7,107.0             | 6,869.1             | 19.2            | 22.2        | 48.74                 | 5.0                               | 1,042.4    | 301.3                | 274.1                 | 27.15                  | 11.097             |         |
| 7,250.0   | 7,077.1             | 7,143.3             | 6,884.1             | 19.2            | 22.2        | 47.45                 | 38.0                              | 1,042.4    | 307.0                | 281.1                 | 25.91                  | 11.850             |         |
| 7,300.0   | 7,101.4             | 7,179.3             | 6,896.9             | 19.2            | 22.3        | 46.37                 | 71.8                              | 1,042.4    | 311.9                | 287.2                 | 24.74                  | 12.610             |         |
| 7,350.0   | 7,121.8             | 7,215.2             | 6,907.5             | 19.3            | 22.4        | 45.50                 | 106.0                             | 1,042.4    | 316.2                | 292.4                 | 23.75                  | 13.313             |         |
| 7,400.0   | 7,138.1             | 7,250.0             | 6,915.7             | 19.4            | 22.5        | 44.83                 | 139.8                             | 1,042.4    | 319.5                | 296.5                 | 23.04                  | 13.866             |         |
| 7,450.0   | 7,150.3             | 7,286.6             | 6,922.1             | 19.6            | 22.6        | 44.32                 | 175.9                             | 1,042.4    | 322.1                | 299.3                 | 22.74                  | 14.166             |         |
| 7,500.0   | 7,158.2             | 7,322.2             | 6,926.1             | 19.8            | 22.7        | 44.01                 | 211.2                             | 1,042.4    | 323.7                | 300.9                 | 22.88                  | 14.151             |         |
| 7,550.0   | 7,161.8             | 7,357.7             | 6,927.9             | 20.0            | 22.9        | 43.87                 | 246.7                             | 1,042.4    | 324.5                | 301.0                 | 23.49                  | 13.812             |         |
| 7,565.9   | 7,162.0             | 7,369.0             | 6,928.0             | 20.1            | 22.9        | 43.86                 | 258.0                             | 1,042.4    | 324.5                | 300.7                 | 23.79                  | 13.642             |         |
| 7,600.0   | 7,162.0             | 7,403.1             | 6,928.0             | 20.3            | 23.1        | 43.86                 | 292.0                             | 1,042.4    | 324.5                | 300.3                 | 24.17                  | 13.426             |         |
| 7,700.0   | 7,162.0             | 7,503.1             | 6,928.0             | 20.9            | 23.6        | 43.86                 | 392.0                             | 1,042.4    | 324.5                | 299.1                 | 25.41                  | 12.769             |         |
| 7,800.0   | 7,162.0             | 7,603.1             | 6,928.0             | 21.7            | 24.3        | 43.86                 | 492.0                             | 1,042.4    | 324.5                | 297.7                 | 26.82                  | 12.098             |         |
| 7,900.0   | 7,162.0             | 7,703.1             | 6,928.0             | 22.6            | 25.1        | 43.86                 | 592.0                             | 1,042.4    | 324.5                | 296.1                 | 28.38                  | 11.436             |         |
| 8,000.0   | 7,162.0             | 7,803.1             | 6,928.0             | 23.6            | 25.9        | 43.86                 | 692.0                             | 1,042.4    | 324.5                | 294.5                 | 30.05                  | 10.800             |         |
| 8,100.0   | 7,162.0             | 7,903.1             | 6,928.0             | 24.6            | 26.9        | 43.86                 | 792.0                             | 1,042.4    | 324.5                | 292.7                 | 31.82                  | 10.199             |         |
| 8,200.0   | 7,162.0             | 8,003.1             | 6,928.0             | 25.8            | 27.9        | 43.86                 | 892.0                             | 1,042.4    | 324.5                | 290.8                 | 33.67                  | 9.637              |         |
| 8,300.0   | 7,162.0             | 8,103.1             | 6,928.0             | 27.0            | 29.0        | 43.86                 | 992.0                             | 1,042.4    | 324.5                | 288.9                 | 35.60                  | 9.115              |         |
| 8,400.0   | 7,162.0             | 8,203.1             | 6,928.0             | 28.2            | 30.2        | 43.86                 | 1,092.0                           | 1,042.4    | 324.5                | 286.9                 | 37.59                  | 8.633              |         |
| 8,500.0   | 7,162.0             | 8,303.1             | 6,928.0             | 29.6            | 31.4        | 43.86                 | 1,192.0                           | 1,042.4    | 324.5                | 284.9                 | 39.63                  | 8.189              |         |
| 8,600.0   | 7,162.0             | 8,403.1             | 6,928.0             | 30.9            | 32.7        | 43.86                 | 1,292.0                           | 1,042.4    | 324.5                | 282.8                 | 41.71                  | 7.780              |         |
| 8,700.0   | 7,162.0             | 8,503.1             | 6,928.0             | 32.3            | 34.0        | 43.86                 | 1,392.0                           | 1,042.4    | 324.5                | 280.7                 | 43.83                  | 7.403              |         |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4I-20H-O264 - HZ - Plan #1 |                           |                           |                           |                   |                |                             |                            |                             |                              |                      |         | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|----------------------------|-----------------------------|------------------------------|----------------------|---------|--------------------|--------|
| Survey Program: 0-Geolink MWD                                       |                           |                           |                           |                   |                |                             |                            |                             |                              |                      |         | Offset Well Error: | 0.0 ft |
| Reference   |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Distance                   |                             | Total<br>Uncertainty<br>Axis | Separation<br>Factor | Warning |                    |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                              |                      |         |                    |        |
| 8,800.0   | 7,162.0                   | 8,603.1                   | 6,928.0                   | 33.7              | 35.4           | 43.86                       | 1,492.0                    | 1,042.4                     | 324.5                        | 278.5                | 45.99   | 7.057              |        |
| 8,900.0   | 7,162.0                   | 8,703.1                   | 6,928.0                   | 35.2              | 36.8           | 43.86                       | 1,592.0                    | 1,042.4                     | 324.5                        | 276.3                | 48.17   | 6.737              |        |
| 9,000.0   | 7,162.0                   | 8,803.1                   | 6,928.0                   | 36.7              | 38.2           | 43.86                       | 1,692.0                    | 1,042.4                     | 324.5                        | 274.1                | 50.37   | 6.442              |        |
| 9,100.0   | 7,162.0                   | 8,903.1                   | 6,928.0                   | 38.2              | 39.6           | 43.86                       | 1,792.0                    | 1,042.4                     | 324.5                        | 271.9                | 52.60   | 6.169              |        |
| 9,200.0   | 7,162.0                   | 9,003.1                   | 6,928.0                   | 39.7              | 41.1           | 43.86                       | 1,892.0                    | 1,042.4                     | 324.5                        | 269.7                | 54.84   | 5.917              |        |
| 9,300.0   | 7,162.0                   | 9,103.1                   | 6,928.0                   | 41.3              | 42.6           | 43.86                       | 1,992.0                    | 1,042.4                     | 324.5                        | 267.4                | 57.11   | 5.682              |        |
| 9,400.0   | 7,162.0                   | 9,203.1                   | 6,928.0                   | 42.8              | 44.1           | 43.86                       | 2,092.0                    | 1,042.4                     | 324.5                        | 265.1                | 59.38   | 5.465              |        |
| 9,500.0   | 7,162.0                   | 9,303.1                   | 6,928.0                   | 44.4              | 45.7           | 43.86                       | 2,192.0                    | 1,042.4                     | 324.5                        | 262.8                | 61.67   | 5.262              |        |
| 9,600.0   | 7,162.0                   | 9,403.1                   | 6,928.0                   | 46.0              | 47.2           | 43.86                       | 2,292.0                    | 1,042.4                     | 324.5                        | 260.5                | 63.98   | 5.072              |        |
| 9,700.0   | 7,162.0                   | 9,503.1                   | 6,928.0                   | 47.6              | 48.8           | 43.86                       | 2,392.0                    | 1,042.4                     | 324.5                        | 258.2                | 66.29   | 4.895              |        |
| 9,800.0   | 7,162.0                   | 9,603.1                   | 6,928.0                   | 49.2              | 50.3           | 43.86                       | 2,492.0                    | 1,042.4                     | 324.5                        | 255.9                | 68.61   | 4.730              |        |
| 9,900.0   | 7,162.0                   | 9,703.1                   | 6,928.0                   | 50.9              | 51.9           | 43.85                       | 2,592.0                    | 1,042.4                     | 324.5                        | 253.6                | 70.94   | 4.575              |        |
| 10,000.0  | 7,162.0                   | 9,803.1                   | 6,928.0                   | 52.5              | 53.5           | 43.85                       | 2,692.0                    | 1,042.4                     | 324.5                        | 251.2                | 73.27   | 4.429              |        |
| 10,100.0  | 7,162.0                   | 9,903.1                   | 6,928.0                   | 54.1              | 55.1           | 43.85                       | 2,792.0                    | 1,042.4                     | 324.5                        | 248.9                | 75.62   | 4.291              |        |
| 10,200.0  | 7,162.0                   | 10,003.1                  | 6,928.0                   | 55.8              | 56.7           | 43.85                       | 2,892.0                    | 1,042.4                     | 324.5                        | 246.5                | 77.97   | 4.162              |        |
| 10,300.0  | 7,162.0                   | 10,103.1                  | 6,928.0                   | 57.4              | 58.4           | 43.85                       | 2,992.0                    | 1,042.4                     | 324.5                        | 244.2                | 80.33   | 4.040              |        |
| 10,400.0  | 7,162.0                   | 10,203.1                  | 6,928.0                   | 59.1              | 60.0           | 43.85                       | 3,092.0                    | 1,042.4                     | 324.5                        | 241.8                | 82.69   | 3.924              |        |
| 10,500.0  | 7,162.0                   | 10,303.1                  | 6,928.0                   | 60.7              | 61.6           | 43.85                       | 3,192.0                    | 1,042.4                     | 324.5                        | 239.4                | 85.05   | 3.815              |        |
| 10,600.0  | 7,162.0                   | 10,403.1                  | 6,928.0                   | 62.4              | 63.3           | 43.85                       | 3,292.0                    | 1,042.4                     | 324.5                        | 237.1                | 87.42   | 3.712              |        |
| 10,700.0  | 7,162.0                   | 10,503.1                  | 6,928.0                   | 64.1              | 64.9           | 43.85                       | 3,392.0                    | 1,042.4                     | 324.5                        | 234.7                | 89.80   | 3.614              |        |
| 10,800.0  | 7,162.0                   | 10,603.1                  | 6,928.0                   | 65.8              | 66.6           | 43.85                       | 3,492.0                    | 1,042.4                     | 324.5                        | 232.3                | 92.18   | 3.520              |        |
| 10,900.0  | 7,162.0                   | 10,703.1                  | 6,928.0                   | 67.4              | 68.2           | 43.85                       | 3,592.0                    | 1,042.4                     | 324.5                        | 229.9                | 94.56   | 3.432              |        |
| 11,000.0  | 7,162.0                   | 10,803.1                  | 6,928.0                   | 69.1              | 69.9           | 43.85                       | 3,692.0                    | 1,042.4                     | 324.5                        | 227.6                | 96.94   | 3.347              |        |
| 11,100.0  | 7,162.0                   | 10,903.1                  | 6,928.0                   | 70.8              | 71.6           | 43.85                       | 3,792.0                    | 1,042.4                     | 324.5                        | 225.2                | 99.33   | 3.267              |        |
| 11,200.0  | 7,162.0                   | 11,003.1                  | 6,928.0                   | 72.5              | 73.2           | 43.85                       | 3,892.0                    | 1,042.4                     | 324.5                        | 222.8                | 101.72  | 3.190              |        |
| 11,300.0  | 7,162.0                   | 11,103.1                  | 6,928.0                   | 74.2              | 74.9           | 43.85                       | 3,992.0                    | 1,042.4                     | 324.5                        | 220.4                | 104.12  | 3.117              |        |
| 11,400.0  | 7,162.0                   | 11,203.1                  | 6,928.0                   | 75.9              | 76.6           | 43.85                       | 4,092.0                    | 1,042.4                     | 324.5                        | 218.0                | 106.51  | 3.047              |        |
| 11,500.0  | 7,162.0                   | 11,303.1                  | 6,928.0                   | 77.6              | 78.3           | 43.85                       | 4,192.0                    | 1,042.4                     | 324.5                        | 215.6                | 108.91  | 2.979              |        |
| 11,600.0  | 7,162.0                   | 11,403.1                  | 6,928.0                   | 79.3              | 80.0           | 43.85                       | 4,292.0                    | 1,042.4                     | 324.5                        | 213.2                | 111.31  | 2.915              |        |
| 11,700.0  | 7,162.0                   | 11,503.1                  | 6,928.0                   | 81.0              | 81.7           | 43.85                       | 4,392.0                    | 1,042.4                     | 324.5                        | 210.8                | 113.71  | 2.854              |        |
| 11,801.7  | 7,162.0                   | 11,604.8                  | 6,928.0                   | 82.7              | 83.4           | 43.85                       | 4,493.8                    | 1,042.4                     | 324.5                        | 208.3                | 116.16  | 2.794 SF           |        |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4J-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program:   |                     | 0-Geolink MWD       |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |         |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | 91.46                 | -0.4                              | 14.8       | 14.9                 |                       |                        |                   |                    |         |
| 100.0   | 100.0               | 99.0                | 99.0                | 0.1             | 0.1         | 91.46                 | -0.4                              | 14.8       | 14.8                 | 14.6                  | 0.24                   | 60.987            |                    |         |
| 200.0   | 200.0               | 199.0               | 199.0               | 0.3             | 0.3         | 91.46                 | -0.4                              | 14.8       | 14.8                 | 14.2                  | 0.59                   | 25.060            |                    |         |
| 234.7   | 234.7               | 233.7               | 233.7               | 0.4             | 0.4         | 91.46                 | -0.4                              | 14.8       | 14.8                 | 14.1                  | 0.71                   | 20.804            | CC, ES             |         |
| 300.0   | 300.0               | 298.7               | 298.7               | 0.5             | 0.5         | 91.80                 | -0.5                              | 15.2       | 15.2                 | 14.3                  | 0.94                   | 16.199            |                    |         |
| 350.0   | 350.0               | 348.5               | 348.4               | 0.6             | 0.6         | 92.75                 | -0.8                              | 16.5       | 16.5                 | 15.4                  | 1.12                   | 14.756            |                    |         |
| 400.0   | 400.0               | 398.1               | 398.1               | 0.6             | 0.7         | -17.22                | -1.3                              | 18.5       | 18.4                 | 17.1                  | 1.29                   | 14.277            |                    |         |
| 500.0   | 500.0               | 497.3               | 497.0               | 0.8             | 0.9         | -15.48                | -3.0                              | 25.2       | 23.5                 | 21.9                  | 1.64                   | 14.375            |                    |         |
| 600.0   | 599.9               | 596.1               | 595.3               | 1.0             | 1.1         | -14.33                | -5.5                              | 35.1       | 30.4                 | 28.4                  | 1.99                   | 15.319            |                    |         |
| 700.0   | 699.8               | 694.6               | 692.8               | 1.2             | 1.4         | -13.62                | -8.8                              | 48.2       | 39.0                 | 36.7                  | 2.33                   | 16.720            |                    |         |
| 800.0   | 799.5               | 792.5               | 789.3               | 1.4             | 1.7         | -13.18                | -12.9                             | 64.5       | 49.3                 | 46.6                  | 2.68                   | 18.390            |                    |         |
| 900.0   | 899.2               | 890.0               | 884.6               | 1.6             | 2.1         | -12.92                | -17.7                             | 83.9       | 61.3                 | 58.3                  | 3.03                   | 20.228            |                    |         |
| 1,000.0   | 998.6               | 987.2               | 979.1               | 1.8             | 2.5         | -12.77                | -23.4                             | 106.2      | 74.9                 | 71.5                  | 3.38                   | 22.155            |                    |         |
| 1,100.0   | 1,097.9             | 1,086.3             | 1,075.1             | 2.1             | 3.0         | -12.82                | -29.4                             | 130.2      | 88.0                 | 84.3                  | 3.74                   | 23.540            |                    |         |
| 1,200.0   | 1,196.9             | 1,185.6             | 1,171.3             | 2.4             | 3.4         | -13.09                | -35.4                             | 154.2      | 99.4                 | 95.3                  | 4.10                   | 24.248            |                    |         |
| 1,300.0   | 1,295.7             | 1,285.2             | 1,267.7             | 2.7             | 3.9         | -13.51                | -41.5                             | 178.2      | 109.1                | 104.6                 | 4.46                   | 24.432            |                    |         |
| 1,400.0   | 1,394.1             | 1,384.8             | 1,364.2             | 3.0             | 4.4         | -14.06                | -47.5                             | 202.3      | 117.1                | 112.3                 | 4.84                   | 24.203            |                    |         |
| 1,437.9   | 1,431.4             | 1,422.7             | 1,400.9             | 3.1             | 4.5         | -14.31                | -49.8                             | 211.4      | 119.7                | 114.7                 | 4.98                   | 24.026            |                    |         |
| 1,500.0   | 1,492.4             | 1,484.6             | 1,460.8             | 3.4             | 4.8         | -14.72                | -53.6                             | 226.3      | 123.8                | 118.6                 | 5.22                   | 23.697            |                    |         |
| 1,600.0   | 1,590.6             | 1,584.4             | 1,557.5             | 3.7             | 5.3         | -15.34                | -59.6                             | 250.4      | 130.3                | 124.7                 | 5.62                   | 23.212            |                    |         |
| 1,700.0   | 1,688.8             | 1,684.1             | 1,654.1             | 4.1             | 5.8         | -15.89                | -65.7                             | 274.5      | 136.9                | 130.9                 | 6.01                   | 22.773            |                    |         |
| 1,800.0   | 1,787.0             | 1,783.9             | 1,750.7             | 4.4             | 6.2         | -16.39                | -71.7                             | 298.6      | 143.5                | 137.1                 | 6.41                   | 22.374            |                    |         |
| 1,900.0   | 1,885.2             | 1,883.7             | 1,847.4             | 4.8             | 6.7         | -16.85                | -77.8                             | 322.7      | 150.1                | 143.3                 | 6.82                   | 22.009            |                    |         |
| 2,000.0   | 1,983.4             | 1,983.5             | 1,944.0             | 5.2             | 7.2         | -17.27                | -83.9                             | 346.8      | 156.7                | 149.5                 | 7.23                   | 21.675            |                    |         |
| 2,100.0   | 2,081.6             | 2,083.2             | 2,040.6             | 5.5             | 7.7         | -17.66                | -89.9                             | 370.9      | 163.3                | 155.7                 | 7.64                   | 21.368            |                    |         |
| 2,200.0   | 2,179.8             | 2,183.0             | 2,137.3             | 5.9             | 8.1         | -18.02                | -96.0                             | 395.0      | 170.0                | 161.9                 | 8.06                   | 21.084            |                    |         |
| 2,300.0   | 2,278.0             | 2,282.8             | 2,233.9             | 6.3             | 8.6         | -18.34                | -102.0                            | 419.1      | 176.6                | 168.1                 | 8.48                   | 20.822            |                    |         |
| 2,400.0   | 2,376.2             | 2,382.6             | 2,330.5             | 6.6             | 9.1         | -18.65                | -108.1                            | 443.1      | 183.2                | 174.3                 | 8.90                   | 20.579            |                    |         |
| 2,500.0   | 2,474.4             | 2,482.3             | 2,427.2             | 7.0             | 9.6         | -18.93                | -114.1                            | 467.2      | 189.9                | 180.5                 | 9.33                   | 20.352            |                    |         |
| 2,600.0   | 2,572.6             | 2,582.1             | 2,523.8             | 7.4             | 10.0        | -19.20                | -120.2                            | 491.3      | 196.5                | 186.7                 | 9.76                   | 20.142            |                    |         |
| 2,700.0   | 2,670.8             | 2,681.9             | 2,620.5             | 7.7             | 10.5        | -19.45                | -126.3                            | 515.4      | 203.1                | 193.0                 | 10.19                  | 19.945            |                    |         |
| 2,800.0   | 2,769.0             | 2,781.7             | 2,717.1             | 8.1             | 11.0        | -19.68                | -132.3                            | 539.5      | 209.8                | 199.2                 | 10.62                  | 19.761            |                    |         |
| 2,900.0   | 2,867.2             | 2,881.5             | 2,813.7             | 8.5             | 11.5        | -19.90                | -138.4                            | 563.6      | 216.5                | 205.4                 | 11.05                  | 19.588            |                    |         |
| 3,000.0   | 2,965.4             | 2,981.2             | 2,910.4             | 8.9             | 12.0        | -20.10                | -144.4                            | 587.7      | 223.1                | 211.6                 | 11.49                  | 19.426            |                    |         |
| 3,100.0   | 3,063.6             | 3,081.0             | 3,007.0             | 9.2             | 12.4        | -20.29                | -150.5                            | 611.8      | 229.8                | 217.8                 | 11.92                  | 19.273            |                    |         |
| 3,200.0   | 3,161.8             | 3,180.8             | 3,103.6             | 9.6             | 12.9        | -20.48                | -156.5                            | 635.8      | 236.4                | 224.1                 | 12.36                  | 19.130            |                    |         |
| 3,300.0   | 3,260.0             | 3,280.6             | 3,200.3             | 10.0            | 13.4        | -20.65                | -162.6                            | 659.9      | 243.1                | 230.3                 | 12.80                  | 18.994            |                    |         |
| 3,400.0   | 3,358.2             | 3,380.3             | 3,296.9             | 10.4            | 13.9        | -20.81                | -168.7                            | 684.0      | 249.8                | 236.5                 | 13.24                  | 18.866            |                    |         |
| 3,500.0   | 3,456.4             | 3,480.1             | 3,393.5             | 10.7            | 14.3        | -20.97                | -174.7                            | 708.1      | 256.4                | 242.7                 | 13.68                  | 18.744            |                    |         |
| 3,600.0   | 3,554.6             | 3,579.9             | 3,490.2             | 11.1            | 14.8        | -21.11                | -180.8                            | 732.2      | 263.1                | 249.0                 | 14.12                  | 18.630            |                    |         |
| 3,700.0   | 3,652.8             | 3,679.7             | 3,586.8             | 11.5            | 15.3        | -21.25                | -186.8                            | 756.3      | 269.8                | 255.2                 | 14.57                  | 18.520            |                    |         |
| 3,800.0   | 3,751.0             | 3,779.4             | 3,683.4             | 11.9            | 15.8        | -21.38                | -192.9                            | 780.4      | 276.4                | 261.4                 | 15.01                  | 18.417            |                    |         |
| 3,900.0   | 3,849.2             | 3,879.2             | 3,780.1             | 12.2            | 16.3        | -21.51                | -198.9                            | 804.5      | 283.1                | 267.7                 | 15.46                  | 18.318            |                    |         |
| 4,000.0   | 3,947.4             | 3,979.0             | 3,876.7             | 12.6            | 16.7        | -21.63                | -205.0                            | 828.5      | 289.8                | 273.9                 | 15.90                  | 18.224            |                    |         |
| 4,100.0   | 4,045.6             | 4,078.8             | 3,973.3             | 13.0            | 17.2        | -21.75                | -211.1                            | 852.6      | 296.5                | 280.1                 | 16.35                  | 18.135            |                    |         |
| 4,200.0   | 4,143.8             | 4,178.5             | 4,070.0             | 13.4            | 17.7        | -21.86                | -217.1                            | 876.7      | 303.1                | 286.4                 | 16.80                  | 18.050            |                    |         |
| 4,300.0   | 4,242.0             | 4,278.3             | 4,166.6             | 13.7            | 18.2        | -21.96                | -223.2                            | 900.8      | 309.8                | 292.6                 | 17.24                  | 17.968            |                    |         |
| 4,400.0   | 4,340.2             | 4,378.1             | 4,263.2             | 14.1            | 18.6        | -22.06                | -229.2                            | 924.9      | 316.5                | 298.8                 | 17.69                  | 17.890            |                    |         |
| 4,500.0   | 4,438.4             | 4,477.9             | 4,359.9             | 14.5            | 19.1        | -22.16                | -235.3                            | 949.0      | 323.2                | 305.0                 | 18.14                  | 17.815            |                    |         |
| 4,600.0   | 4,536.6             | 4,577.6             | 4,456.5             | 14.9            | 19.6        | -22.25                | -241.3                            | 973.1      | 329.9                | 311.3                 | 18.59                  | 17.744            |                    |         |
| 4,700.0   | 4,634.8             | 4,677.4             | 4,553.1             | 15.2            | 20.1        | -22.34                | -247.4                            | 997.2      | 336.6                | 317.5                 | 19.04                  | 17.675            |                    |         |
| 4,800.0   | 4,733.0             | 4,777.2             | 4,649.8             | 15.6            | 20.6        | -22.43                | -253.5                            | 1,021.3    | 343.2                | 323.7                 | 19.49                  | 17.610            |                    |         |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4J-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |                           |  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|---------------------------|--|
| Survey Program: 0-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |                           |         | Offset Well Error: 0.0 ft |  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | Warning |                           |  |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |         |                           |  |
| 4,900.0   | 4,831.2             | 4,877.0             | 4,746.4             | 16.0            | 21.0        | -22.51                | -259.5                            | 1,045.3    | 349.9                | 330.0                 | 19.94                  | 17.547            |                           |         |                           |  |
| 4,988.9   | 4,918.6             | 4,965.7             | 4,832.3             | 16.3            | 21.5        | -22.58                | -264.9                            | 1,066.8    | 355.9                | 335.5                 | 20.34                  | 17.492            |                           |         |                           |  |
| 5,000.0   | 4,929.5             | 4,976.7             | 4,843.0             | 16.4            | 21.5        | -22.59                | -265.6                            | 1,069.4    | 356.6                | 336.2                 | 20.39                  | 17.486            |                           |         |                           |  |
| 5,100.0   | 5,027.9             | 5,076.4             | 4,939.6             | 16.7            | 22.0        | -22.63                | -271.6                            | 1,093.5    | 364.3                | 343.5                 | 20.82                  | 17.495            |                           |         |                           |  |
| 5,200.0   | 5,126.5             | 5,176.0             | 5,036.0             | 17.0            | 22.5        | -22.57                | -277.7                            | 1,117.5    | 373.6                | 352.3                 | 21.21                  | 17.611            |                           |         |                           |  |
| 5,300.0   | 5,225.5             | 5,275.4             | 5,132.3             | 17.3            | 22.9        | -22.43                | -283.7                            | 1,141.5    | 384.4                | 362.9                 | 21.56                  | 17.827            |                           |         |                           |  |
| 5,400.0   | 5,324.7             | 5,374.6             | 5,228.4             | 17.6            | 23.4        | -22.20                | -289.7                            | 1,165.5    | 396.9                | 375.0                 | 21.88                  | 18.140            |                           |         |                           |  |
| 5,500.0   | 5,424.1             | 5,479.8             | 5,330.3             | 17.8            | 23.9        | -21.90                | -296.0                            | 1,190.5    | 410.7                | 388.6                 | 22.17                  | 18.526            |                           |         |                           |  |
| 5,600.0   | 5,523.7             | 5,595.2             | 5,443.1             | 18.1            | 24.4        | -21.60                | -302.0                            | 1,214.5    | 423.0                | 400.6                 | 22.46                  | 18.830            |                           |         |                           |  |
| 5,700.0   | 5,623.4             | 5,711.6             | 5,557.6             | 18.2            | 24.7        | -21.38                | -307.0                            | 1,234.2    | 433.0                | 410.3                 | 22.76                  | 19.026            |                           |         |                           |  |
| 5,800.0   | 5,723.2             | 5,828.5             | 5,673.6             | 18.4            | 25.0        | -21.21                | -310.8                            | 1,249.4    | 440.8                | 417.7                 | 23.06                  | 19.116            |                           |         |                           |  |
| 5,900.0   | 5,823.2             | 5,946.0             | 5,790.5             | 18.6            | 25.3        | -21.10                | -313.5                            | 1,260.1    | 446.2                | 422.8                 | 23.35                  | 19.103            |                           |         |                           |  |
| 6,000.0   | 5,923.1             | 6,063.8             | 5,908.2             | 18.7            | 25.4        | -21.04                | -315.0                            | 1,266.1    | 449.2                | 425.5                 | 23.65                  | 18.992            |                           |         |                           |  |
| 6,076.9   | 6,000.0             | 6,154.5             | 5,998.8             | 18.7            | 25.5        | 90.05                 | -315.4                            | 1,267.5    | 449.9                | 426.0                 | 23.88                  | 18.839            |                           |         |                           |  |
| 6,100.0   | 6,023.1             | 6,177.8             | 6,022.1             | 18.8            | 25.5        | 90.05                 | -315.4                            | 1,267.5    | 449.9                | 426.0                 | 23.95                  | 18.783            |                           |         |                           |  |
| 6,200.0   | 6,123.1             | 6,277.8             | 6,122.1             | 18.9            | 25.6        | 90.05                 | -315.4                            | 1,267.5    | 449.9                | 425.7                 | 24.27                  | 18.542            |                           |         |                           |  |
| 6,300.0   | 6,223.1             | 6,377.8             | 6,222.1             | 19.0            | 25.7        | 90.05                 | -315.4                            | 1,267.5    | 449.9                | 425.3                 | 24.58                  | 18.306            |                           |         |                           |  |
| 6,400.0   | 6,323.1             | 6,477.8             | 6,322.1             | 19.1            | 25.7        | 90.05                 | -315.4                            | 1,267.5    | 449.9                | 425.0                 | 24.89                  | 18.076            |                           |         |                           |  |
| 6,500.0   | 6,423.1             | 6,577.8             | 6,422.1             | 19.2            | 25.8        | 90.05                 | -315.4                            | 1,267.5    | 449.9                | 424.7                 | 25.21                  | 17.850            |                           |         |                           |  |
| 6,545.7   | 6,468.8             | 6,623.5             | 6,467.8             | 19.2            | 25.8        | 90.00                 | -315.0                            | 1,267.5    | 449.9                | 424.6                 | 25.35                  | 17.749            |                           |         |                           |  |
| 6,600.0   | 6,523.1             | 6,677.4             | 6,521.5             | 19.3            | 25.9        | 89.43                 | -310.5                            | 1,267.5    | 449.9                | 424.3                 | 25.63                  | 17.554            |                           |         |                           |  |
| 6,665.9   | 6,589.0             | 6,741.1             | 6,584.0             | 19.3            | 25.9        | 87.93                 | -298.8                            | 1,267.5    | 450.2                | 424.1                 | 26.16                  | 17.209            |                           |         |                           |  |
| 6,700.0   | 6,623.1             | 6,773.0             | 6,614.8             | 19.4            | 25.8        | 86.93                 | -290.3                            | 1,267.5    | 450.6                | 424.1                 | 26.47                  | 17.021            |                           |         |                           |  |
| 6,750.0   | 6,672.8             | 6,819.2             | 6,658.4             | 19.4            | 25.8        | 85.49                 | -275.0                            | 1,267.5    | 451.4                | 424.5                 | 26.86                  | 16.804            |                           |         |                           |  |
| 6,800.0   | 6,721.9             | 6,864.6             | 6,699.9             | 19.4            | 25.8        | 84.10                 | -256.6                            | 1,267.5    | 452.4                | 425.3                 | 27.16                  | 16.658            |                           |         |                           |  |
| 6,850.0   | 6,770.0             | 6,909.2             | 6,739.1             | 19.4            | 25.8        | 82.75                 | -235.3                            | 1,267.5    | 453.7                | 426.4                 | 27.36                  | 16.586            |                           |         |                           |  |
| 6,900.0   | 6,816.7             | 6,953.3             | 6,776.1             | 19.3            | 25.7        | 81.47                 | -211.5                            | 1,267.5    | 455.2                | 427.7                 | 27.44                  | 16.588            |                           |         |                           |  |
| 6,950.0   | 6,861.6             | 6,996.7             | 6,810.7             | 19.3            | 25.7        | 80.26                 | -185.2                            | 1,267.5    | 456.8                | 429.3                 | 27.41                  | 16.663            |                           |         |                           |  |
| 7,000.0   | 6,904.5             | 7,039.6             | 6,842.8             | 19.3            | 25.7        | 79.12                 | -156.7                            | 1,267.5    | 458.4                | 431.2                 | 27.28                  | 16.806            |                           |         |                           |  |
| 7,050.0   | 6,945.0             | 7,082.0             | 6,872.4             | 19.2            | 25.7        | 78.05                 | -126.3                            | 1,267.5    | 460.2                | 433.1                 | 27.05                  | 17.008            |                           |         |                           |  |
| 7,100.0   | 6,982.8             | 7,124.0             | 6,899.3             | 19.2            | 25.7        | 77.08                 | -94.2                             | 1,267.5    | 461.9                | 435.1                 | 26.77                  | 17.257            |                           |         |                           |  |
| 7,150.0   | 7,017.6             | 7,165.6             | 6,923.7             | 19.2            | 25.7        | 76.19                 | -60.4                             | 1,267.5    | 463.6                | 437.1                 | 26.44                  | 17.534            |                           |         |                           |  |
| 7,200.0   | 7,049.1             | 7,206.9             | 6,945.3             | 19.2            | 25.7        | 75.39                 | -25.3                             | 1,267.5    | 465.2                | 439.1                 | 26.11                  | 17.819            |                           |         |                           |  |
| 7,250.0   | 7,077.1             | 7,250.0             | 6,965.2             | 19.2            | 25.7        | 74.66                 | 13.0                              | 1,267.5    | 466.7                | 440.8                 | 25.85                  | 18.050            |                           |         |                           |  |
| 7,300.0   | 7,101.4             | 7,288.7             | 6,980.5             | 19.2            | 25.8        | 74.09                 | 48.5                              | 1,267.5    | 468.0                | 442.3                 | 25.69                  | 18.216            |                           |         |                           |  |
| 7,350.0   | 7,121.8             | 7,329.3             | 6,993.9             | 19.3            | 25.8        | 73.59                 | 86.7                              | 1,267.5    | 469.1                | 443.5                 | 25.65                  | 18.288            |                           |         |                           |  |
| 7,400.0   | 7,138.1             | 7,369.7             | 7,004.6             | 19.4            | 25.9        | 73.19                 | 125.7                             | 1,267.5    | 470.1                | 444.3                 | 25.79                  | 18.225            |                           |         |                           |  |
| 7,450.0   | 7,150.3             | 7,409.9             | 7,012.5             | 19.6            | 26.0        | 72.89                 | 165.2                             | 1,267.5    | 470.8                | 444.7                 | 26.14                  | 18.010            |                           |         |                           |  |
| 7,500.0   | 7,158.2             | 7,450.0             | 7,017.6             | 19.8            | 26.2        | 72.70                 | 204.9                             | 1,267.5    | 471.3                | 444.6                 | 26.71                  | 17.645            |                           |         |                           |  |
| 7,550.0   | 7,161.8             | 7,490.3             | 7,019.9             | 20.0            | 26.3        | 72.61                 | 245.1                             | 1,267.5    | 471.5                | 444.0                 | 27.51                  | 17.141            |                           |         |                           |  |
| 7,565.9   | 7,162.0             | 7,503.1             | 7,020.0             | 20.1            | 26.3        | 72.60                 | 258.0                             | 1,267.5    | 471.5                | 443.7                 | 27.80                  | 16.962            |                           |         |                           |  |
| 7,600.0   | 7,162.0             | 7,537.2             | 7,020.0             | 20.3            | 26.5        | 72.60                 | 292.0                             | 1,267.5    | 471.5                | 443.2                 | 28.33                  | 16.643            |                           |         |                           |  |
| 7,700.0   | 7,162.0             | 7,637.2             | 7,020.0             | 20.9            | 27.0        | 72.60                 | 392.0                             | 1,267.5    | 471.5                | 441.5                 | 30.04                  | 15.694            |                           |         |                           |  |
| 7,800.0   | 7,162.0             | 7,737.2             | 7,020.0             | 21.7            | 27.5        | 72.60                 | 492.0                             | 1,267.5    | 471.5                | 439.5                 | 32.02                  | 14.727            |                           |         |                           |  |
| 7,900.0   | 7,162.0             | 7,837.2             | 7,020.0             | 22.6            | 28.2        | 72.60                 | 592.0                             | 1,267.5    | 471.5                | 437.3                 | 34.20                  | 13.785            |                           |         |                           |  |
| 8,000.0   | 7,162.0             | 7,937.2             | 7,020.0             | 23.6            | 29.0        | 72.60                 | 692.0                             | 1,267.5    | 471.5                | 434.9                 | 36.57                  | 12.894            |                           |         |                           |  |
| 8,100.0   | 7,162.0             | 8,037.2             | 7,020.0             | 24.6            | 29.8        | 72.60                 | 792.0                             | 1,267.5    | 471.5                | 432.4                 | 39.08                  | 12.066            |                           |         |                           |  |
| 8,200.0   | 7,162.0             | 8,137.2             | 7,020.0             | 25.8            | 30.8        | 72.60                 | 892.0                             | 1,267.5    | 471.5                | 429.8                 | 41.70                  | 11.306            |                           |         |                           |  |
| 8,300.0   | 7,162.0             | 8,237.2             | 7,020.0             | 27.0            | 31.8        | 72.60                 | 992.0                             | 1,267.5    | 471.5                | 427.1                 | 44.43                  | 10.613            |                           |         |                           |  |
| 8,400.0   | 7,162.0             | 8,337.2             | 7,020.0             | 28.2            | 32.8        | 72.60                 | 1,092.0                           | 1,267.5    | 471.5                | 424.3                 | 47.23                  | 9.983             |                           |         |                           |  |
| 8,500.0   | 7,162.0             | 8,437.2             | 7,020.0             | 29.6            | 33.9        | 72.60                 | 1,192.0                           | 1,267.5    | 471.5                | 421.4                 | 50.10                  | 9.410             |                           |         |                           |  |
| 8,600.0   | 7,162.0             | 8,537.2             | 7,020.0             | 30.9            | 35.1        | 72.60                 | 1,292.0                           | 1,267.5    | 471.5                | 418.5                 | 53.03                  | 8.891             |                           |         |                           |  |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4J-20H-O264 - HZ - Plan #1 |                        |                        |                        |                   |                |                             |   |               |                            |                             |                     |            | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|---------------------|------------|--------------------|--------|
| Survey Program: 0-Geolink MWD                                       |                        |                        |                        |                   |                |                             |   |               |                            |                             |                     |            | Offset Well Error: | 0.0 ft |
| Reference   |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | Total               | Separation | Warning            |        |
| Measured Depth<br>(ft)  | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Uncertainty<br>Axis | Factor     |                    |        |
| 8,700.0   | 7,162.0                | 8,637.2                | 7,020.0                | 32.3              | 36.4           | 72.60                       | 1,392.0                                 | 1,267.5       | 471.5                      | 415.5                       | 56.01               | 8.419      |                    |        |
| 8,800.0   | 7,162.0                | 8,737.2                | 7,020.0                | 33.7              | 37.6           | 72.60                       | 1,492.0                                 | 1,267.5       | 471.5                      | 412.5                       | 59.02               | 7.988      |                    |        |
| 8,900.0   | 7,162.0                | 8,837.2                | 7,020.0                | 35.2              | 38.9           | 72.60                       | 1,592.0                                 | 1,267.5       | 471.5                      | 409.4                       | 62.07               | 7.596      |                    |        |
| 9,000.0   | 7,162.0                | 8,937.2                | 7,020.0                | 36.7              | 40.3           | 72.60                       | 1,692.0                                 | 1,267.5       | 471.5                      | 406.3                       | 65.15               | 7.237      |                    |        |
| 9,100.0   | 7,162.0                | 9,037.2                | 7,020.0                | 38.2              | 41.7           | 72.60                       | 1,792.0                                 | 1,267.5       | 471.5                      | 403.2                       | 68.26               | 6.908      |                    |        |
| 9,200.0   | 7,162.0                | 9,137.2                | 7,020.0                | 39.7              | 43.1           | 72.60                       | 1,892.0                                 | 1,267.5       | 471.5                      | 400.1                       | 71.38               | 6.605      |                    |        |
| 9,300.0   | 7,162.0                | 9,237.2                | 7,020.0                | 41.3              | 44.5           | 72.60                       | 1,992.0                                 | 1,267.5       | 471.5                      | 397.0                       | 74.53               | 6.326      |                    |        |
| 9,400.0   | 7,162.0                | 9,337.2                | 7,020.0                | 42.8              | 45.9           | 72.60                       | 2,092.0                                 | 1,267.5       | 471.5                      | 393.8                       | 77.69               | 6.069      |                    |        |
| 9,500.0   | 7,162.0                | 9,437.2                | 7,020.0                | 44.4              | 47.4           | 72.60                       | 2,192.0                                 | 1,267.5       | 471.5                      | 390.6                       | 80.87               | 5.830      |                    |        |
| 9,600.0   | 7,162.0                | 9,537.2                | 7,020.0                | 46.0              | 48.9           | 72.60                       | 2,292.0                                 | 1,267.5       | 471.5                      | 387.4                       | 84.06               | 5.609      |                    |        |
| 9,700.0   | 7,162.0                | 9,637.2                | 7,020.0                | 47.6              | 50.4           | 72.60                       | 2,392.0                                 | 1,267.5       | 471.5                      | 384.2                       | 87.27               | 5.403      |                    |        |
| 9,800.0   | 7,162.0                | 9,737.2                | 7,020.0                | 49.2              | 51.9           | 72.60                       | 2,492.0                                 | 1,267.5       | 471.5                      | 381.0                       | 90.48               | 5.211      |                    |        |
| 9,900.0   | 7,162.0                | 9,837.2                | 7,020.0                | 50.9              | 53.5           | 72.60                       | 2,592.0                                 | 1,267.5       | 471.5                      | 377.8                       | 93.70               | 5.032      |                    |        |
| 10,000.0  | 7,162.0                | 9,937.2                | 7,020.0                | 52.5              | 55.0           | 72.60                       | 2,692.0                                 | 1,267.5       | 471.5                      | 374.6                       | 96.94               | 4.864      |                    |        |
| 10,100.0  | 7,162.0                | 10,037.2               | 7,020.0                | 54.1              | 56.6           | 72.60                       | 2,792.0                                 | 1,267.5       | 471.5                      | 371.3                       | 100.17              | 4.707      |                    |        |
| 10,200.0  | 7,162.0                | 10,137.2               | 7,020.0                | 55.8              | 58.2           | 72.60                       | 2,892.0                                 | 1,267.5       | 471.5                      | 368.1                       | 103.42              | 4.559      |                    |        |
| 10,300.0  | 7,162.0                | 10,237.2               | 7,020.0                | 57.4              | 59.7           | 72.60                       | 2,992.0                                 | 1,267.5       | 471.5                      | 364.8                       | 106.67              | 4.420      |                    |        |
| 10,400.0  | 7,162.0                | 10,337.2               | 7,020.0                | 59.1              | 61.3           | 72.60                       | 3,092.0                                 | 1,267.5       | 471.5                      | 361.6                       | 109.93              | 4.289      |                    |        |
| 10,500.0  | 7,162.0                | 10,437.2               | 7,020.0                | 60.7              | 62.9           | 72.60                       | 3,192.0                                 | 1,267.5       | 471.5                      | 358.3                       | 113.20              | 4.165      |                    |        |
| 10,600.0  | 7,162.0                | 10,537.2               | 7,020.0                | 62.4              | 64.6           | 72.60                       | 3,292.0                                 | 1,267.5       | 471.5                      | 355.0                       | 116.47              | 4.048      |                    |        |
| 10,700.0  | 7,162.0                | 10,637.2               | 7,020.0                | 64.1              | 66.2           | 72.60                       | 3,392.0                                 | 1,267.5       | 471.5                      | 351.7                       | 119.74              | 3.938      |                    |        |
| 10,800.0  | 7,162.0                | 10,737.2               | 7,020.0                | 65.8              | 67.8           | 72.60                       | 3,492.0                                 | 1,267.5       | 471.5                      | 348.5                       | 123.02              | 3.833      |                    |        |
| 10,900.0  | 7,162.0                | 10,837.2               | 7,020.0                | 67.4              | 69.4           | 72.60                       | 3,592.0                                 | 1,267.5       | 471.5                      | 345.2                       | 126.30              | 3.733      |                    |        |
| 11,000.0  | 7,162.0                | 10,937.2               | 7,020.0                | 69.1              | 71.1           | 72.60                       | 3,692.0                                 | 1,267.5       | 471.5                      | 341.9                       | 129.58              | 3.638      |                    |        |
| 11,100.0  | 7,162.0                | 11,037.2               | 7,020.0                | 70.8              | 72.7           | 72.60                       | 3,792.0                                 | 1,267.5       | 471.5                      | 338.6                       | 132.87              | 3.548      |                    |        |
| 11,200.0  | 7,162.0                | 11,137.2               | 7,020.0                | 72.5              | 74.4           | 72.60                       | 3,892.0                                 | 1,267.5       | 471.5                      | 335.3                       | 136.16              | 3.463      |                    |        |
| 11,300.0  | 7,162.0                | 11,237.2               | 7,020.0                | 74.2              | 76.0           | 72.60                       | 3,992.0                                 | 1,267.5       | 471.5                      | 332.0                       | 139.46              | 3.381      |                    |        |
| 11,400.0  | 7,162.0                | 11,337.2               | 7,020.0                | 75.9              | 77.7           | 72.60                       | 4,092.0                                 | 1,267.5       | 471.5                      | 328.7                       | 142.75              | 3.303      |                    |        |
| 11,500.0  | 7,162.0                | 11,437.2               | 7,020.0                | 77.6              | 79.3           | 72.60                       | 4,192.0                                 | 1,267.5       | 471.5                      | 325.4                       | 146.05              | 3.228      |                    |        |
| 11,600.0  | 7,162.0                | 11,537.2               | 7,020.0                | 79.3              | 81.0           | 72.60                       | 4,292.0                                 | 1,267.5       | 471.5                      | 322.1                       | 149.35              | 3.157      |                    |        |
| 11,700.0  | 7,162.0                | 11,637.2               | 7,020.0                | 81.0              | 82.7           | 72.60                       | 4,392.0                                 | 1,267.5       | 471.5                      | 318.8                       | 152.66              | 3.089      |                    |        |
| 11,801.7  | 7,162.0                | 11,738.9               | 7,020.0                | 82.7              | 84.4           | 72.60                       | 4,493.8                                 | 1,267.5       | 471.5                      | 315.5                       | 156.02              | 3.022 SF   |                    |        |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4K-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: O-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |         |
| 0.0   | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | 90.93                 | -0.4                              | 22.4       | 22.4                 |                       |                        |                   |                    |         |
| 100.0   | 100.0               | 99.0                | 99.0                | 0.1             | 0.1         | 90.93                 | -0.4                              | 22.4       | 22.4                 | 22.1                  | 0.24                   | 92.038            |                    |         |
| 200.0   | 200.0               | 199.0               | 199.0               | 0.3             | 0.3         | 90.93                 | -0.4                              | 22.4       | 22.4                 | 21.8                  | 0.59                   | 37.820 CC, ES     |                    |         |
| 300.0   | 300.0               | 298.2               | 298.2               | 0.5             | 0.5         | 91.71                 | -0.7                              | 24.0       | 24.0                 | 23.1                  | 0.94                   | 25.520            |                    |         |
| 350.0   | 350.0               | 347.7               | 347.7               | 0.6             | 0.6         | 92.55                 | -1.2                              | 26.1       | 26.2                 | 25.0                  | 1.12                   | 23.276            |                    |         |
| 400.0   | 400.0               | 397.2               | 397.0               | 0.6             | 0.7         | -17.67                | -1.8                              | 29.0       | 28.9                 | 27.6                  | 1.29                   | 22.467            |                    |         |
| 500.0   | 500.0               | 495.9               | 495.3               | 0.8             | 0.9         | -16.43                | -3.6                              | 37.3       | 35.8                 | 34.1                  | 1.63                   | 21.877            |                    |         |
| 600.0   | 599.9               | 594.1               | 592.9               | 1.0             | 1.2         | -15.67                | -6.0                              | 48.8       | 44.4                 | 42.4                  | 1.98                   | 22.372            |                    |         |
| 700.0   | 699.8               | 691.9               | 689.5               | 1.2             | 1.5         | -15.24                | -9.2                              | 63.6       | 54.7                 | 52.3                  | 2.33                   | 23.452            |                    |         |
| 800.0   | 799.5               | 789.1               | 785.0               | 1.4             | 1.8         | -15.01                | -13.0                             | 81.4       | 66.6                 | 64.0                  | 2.68                   | 24.877            |                    |         |
| 900.0   | 899.2               | 885.8               | 879.2               | 1.6             | 2.2         | -14.91                | -17.5                             | 102.2      | 80.3                 | 77.3                  | 3.03                   | 26.515            |                    |         |
| 1,000.0   | 998.6               | 981.7               | 972.0               | 1.8             | 2.7         | -14.89                | -22.6                             | 126.0      | 95.6                 | 92.2                  | 3.38                   | 28.286            |                    |         |
| 1,100.0   | 1,097.9             | 1,078.0             | 1,064.4             | 2.1             | 3.2         | -14.91                | -28.3                             | 152.7      | 112.3                | 108.6                 | 3.73                   | 30.077            |                    |         |
| 1,200.0   | 1,196.9             | 1,176.8             | 1,158.9             | 2.4             | 3.7         | -15.10                | -34.3                             | 180.8      | 128.1                | 124.0                 | 4.10                   | 31.259            |                    |         |
| 1,300.0   | 1,295.7             | 1,275.8             | 1,253.6             | 2.7             | 4.3         | -15.42                | -40.3                             | 208.9      | 142.2                | 137.7                 | 4.47                   | 31.829            |                    |         |
| 1,400.0   | 1,394.1             | 1,375.0             | 1,348.5             | 3.0             | 4.8         | -15.86                | -46.4                             | 237.1      | 154.7                | 149.8                 | 4.85                   | 31.913            |                    |         |
| 1,437.9   | 1,431.4             | 1,412.7             | 1,384.6             | 3.1             | 5.0         | -16.05                | -48.7                             | 247.9      | 159.0                | 154.0                 | 4.99                   | 31.840            |                    |         |
| 1,500.0   | 1,492.4             | 1,474.3             | 1,443.6             | 3.4             | 5.3         | -16.39                | -52.4                             | 265.4      | 165.8                | 160.6                 | 5.24                   | 31.663            |                    |         |
| 1,600.0   | 1,590.6             | 1,573.7             | 1,538.7             | 3.7             | 5.9         | -16.87                | -58.5                             | 293.6      | 176.8                | 171.2                 | 5.63                   | 31.391            |                    |         |
| 1,700.0   | 1,688.8             | 1,673.1             | 1,633.8             | 4.1             | 6.4         | -17.30                | -64.5                             | 321.9      | 187.8                | 181.8                 | 6.03                   | 31.134            |                    |         |
| 1,800.0   | 1,787.0             | 1,772.5             | 1,728.9             | 4.4             | 7.0         | -17.68                | -70.6                             | 350.1      | 198.9                | 192.4                 | 6.44                   | 30.892            |                    |         |
| 1,900.0   | 1,885.2             | 1,871.9             | 1,824.0             | 4.8             | 7.5         | -18.01                | -76.6                             | 378.4      | 209.9                | 203.1                 | 6.85                   | 30.664            |                    |         |
| 2,000.0   | 1,983.4             | 1,971.2             | 1,919.0             | 5.2             | 8.1         | -18.32                | -82.7                             | 406.6      | 221.0                | 213.7                 | 7.26                   | 30.449            |                    |         |
| 2,100.0   | 2,081.6             | 2,070.6             | 2,014.1             | 5.5             | 8.6         | -18.60                | -88.7                             | 434.9      | 232.0                | 224.3                 | 7.67                   | 30.247            |                    |         |
| 2,200.0   | 2,179.8             | 2,170.0             | 2,109.2             | 5.9             | 9.2         | -18.85                | -94.8                             | 463.1      | 243.1                | 235.0                 | 8.09                   | 30.058            |                    |         |
| 2,300.0   | 2,278.0             | 2,269.4             | 2,204.3             | 6.3             | 9.7         | -19.08                | -100.9                            | 491.4      | 254.1                | 245.6                 | 8.51                   | 29.880            |                    |         |
| 2,400.0   | 2,376.2             | 2,368.8             | 2,299.4             | 6.6             | 10.3        | -19.29                | -106.9                            | 519.6      | 265.2                | 256.3                 | 8.93                   | 29.712            |                    |         |
| 2,500.0   | 2,474.4             | 2,468.2             | 2,394.5             | 7.0             | 10.8        | -19.48                | -113.0                            | 547.9      | 276.3                | 266.9                 | 9.35                   | 29.554            |                    |         |
| 2,600.0   | 2,572.6             | 2,567.5             | 2,489.6             | 7.4             | 11.4        | -19.66                | -119.0                            | 576.1      | 287.3                | 277.6                 | 9.77                   | 29.406            |                    |         |
| 2,700.0   | 2,670.8             | 2,666.9             | 2,584.7             | 7.7             | 11.9        | -19.82                | -125.1                            | 604.4      | 298.4                | 288.2                 | 10.20                  | 29.266            |                    |         |
| 2,800.0   | 2,769.0             | 2,766.3             | 2,679.8             | 8.1             | 12.5        | -19.98                | -131.1                            | 632.6      | 309.5                | 298.9                 | 10.62                  | 29.134            |                    |         |
| 2,900.0   | 2,867.2             | 2,865.7             | 2,774.8             | 8.5             | 13.0        | -20.12                | -137.2                            | 660.9      | 320.6                | 309.5                 | 11.05                  | 29.009            |                    |         |
| 3,000.0   | 2,965.4             | 2,965.1             | 2,869.9             | 8.9             | 13.6        | -20.25                | -143.2                            | 689.1      | 331.7                | 320.2                 | 11.48                  | 28.891            |                    |         |
| 3,100.0   | 3,063.6             | 3,064.4             | 2,965.0             | 9.2             | 14.1        | -20.38                | -149.3                            | 717.4      | 342.7                | 330.8                 | 11.91                  | 28.780            |                    |         |
| 3,200.0   | 3,161.8             | 3,163.8             | 3,060.1             | 9.6             | 14.7        | -20.50                | -155.3                            | 745.6      | 353.8                | 341.5                 | 12.34                  | 28.674            |                    |         |
| 3,300.0   | 3,260.0             | 3,263.2             | 3,155.2             | 10.0            | 15.2        | -20.61                | -161.4                            | 773.9      | 364.9                | 352.1                 | 12.77                  | 28.574            |                    |         |
| 3,400.0   | 3,358.2             | 3,362.6             | 3,250.3             | 10.4            | 15.8        | -20.71                | -167.4                            | 802.1      | 376.0                | 362.8                 | 13.20                  | 28.478            |                    |         |
| 3,500.0   | 3,456.4             | 3,462.0             | 3,345.4             | 10.7            | 16.3        | -20.81                | -173.5                            | 830.4      | 387.1                | 373.4                 | 13.64                  | 28.388            |                    |         |
| 3,600.0   | 3,554.6             | 3,561.3             | 3,440.5             | 11.1            | 16.9        | -20.90                | -179.5                            | 858.6      | 398.2                | 384.1                 | 14.07                  | 28.301            |                    |         |
| 3,700.0   | 3,652.8             | 3,660.7             | 3,535.6             | 11.5            | 17.4        | -20.99                | -185.6                            | 886.9      | 409.3                | 394.8                 | 14.50                  | 28.219            |                    |         |
| 3,800.0   | 3,751.0             | 3,760.1             | 3,630.7             | 11.9            | 18.0        | -21.07                | -191.6                            | 915.1      | 420.4                | 405.4                 | 14.94                  | 28.141            |                    |         |
| 3,900.0   | 3,849.2             | 3,859.5             | 3,725.7             | 12.2            | 18.5        | -21.15                | -197.7                            | 943.4      | 431.5                | 416.1                 | 15.37                  | 28.066            |                    |         |
| 4,000.0   | 3,947.4             | 3,958.9             | 3,820.8             | 12.6            | 19.1        | -21.22                | -203.7                            | 971.6      | 442.5                | 426.7                 | 15.81                  | 27.995            |                    |         |
| 4,100.0   | 4,045.6             | 4,058.3             | 3,915.9             | 13.0            | 19.6        | -21.29                | -209.8                            | 999.9      | 453.6                | 437.4                 | 16.24                  | 27.927            |                    |         |
| 4,200.0   | 4,143.8             | 4,157.6             | 4,011.0             | 13.4            | 20.2        | -21.36                | -215.9                            | 1,028.1    | 464.7                | 448.1                 | 16.68                  | 27.861            |                    |         |
| 4,300.0   | 4,242.0             | 4,257.0             | 4,106.1             | 13.7            | 20.7        | -21.42                | -221.9                            | 1,056.4    | 475.8                | 458.7                 | 17.12                  | 27.799            |                    |         |
| 4,400.0   | 4,340.2             | 4,356.4             | 4,201.2             | 14.1            | 21.3        | -21.48                | -228.0                            | 1,084.6    | 486.9                | 469.4                 | 17.55                  | 27.739            |                    |         |
| 4,500.0   | 4,438.4             | 4,455.8             | 4,296.3             | 14.5            | 21.8        | -21.54                | -234.0                            | 1,112.9    | 498.0                | 480.0                 | 17.99                  | 27.681            |                    |         |
| 4,600.0   | 4,536.6             | 4,555.2             | 4,391.4             | 14.9            | 22.4        | -21.60                | -240.1                            | 1,141.1    | 509.1                | 490.7                 | 18.43                  | 27.626            |                    |         |
| 4,700.0   | 4,634.8             | 4,654.5             | 4,486.5             | 15.2            | 23.0        | -21.65                | -246.1                            | 1,169.4    | 520.2                | 501.3                 | 18.87                  | 27.573            |                    |         |
| 4,800.0   | 4,733.0             | 4,753.9             | 4,581.5             | 15.6            | 23.5        | -21.70                | -252.2                            | 1,197.6    | 531.3                | 512.0                 | 19.31                  | 27.522            |                    |         |
| 4,900.0   | 4,831.2             | 4,853.3             | 4,676.6             | 16.0            | 24.1        | -21.75                | -258.2                            | 1,225.9    | 542.4                | 522.7                 | 19.74                  | 27.472            |                    |         |

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



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - Dale 4K-20H-O264 - HZ - Plan #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: O-Geolink MWD                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    |        |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning            |        |
| 4,988.9   | 4,918.6             | 4,941.7             | 4,761.2             | 16.3            | 24.5        | -21.79                | -263.6                            | 1,251.0    | 552.3                | 532.1                 | 20.13                  | 27.430            |                    |        |
| 5,000.0   | 4,929.5             | 4,952.7             | 4,771.7             | 16.4            | 24.6        | -21.80                | -264.3                            | 1,254.1    | 553.5                | 533.3                 | 20.18                  | 27.425            |                    |        |
| 5,100.0   | 5,027.9             | 5,051.9             | 4,866.7             | 16.7            | 25.2        | -21.85                | -270.3                            | 1,282.3    | 565.6                | 545.0                 | 20.61                  | 27.449            |                    |        |
| 5,200.0   | 5,126.5             | 5,151.0             | 4,961.5             | 17.0            | 25.7        | -21.84                | -276.3                            | 1,310.5    | 579.3                | 558.3                 | 21.00                  | 27.585            |                    |        |
| 5,300.0   | 5,225.5             | 5,249.8             | 5,056.0             | 17.3            | 26.3        | -21.78                | -282.4                            | 1,338.6    | 594.6                | 573.2                 | 21.37                  | 27.827            |                    |        |
| 5,400.0   | 5,324.7             | 5,348.4             | 5,150.3             | 17.6            | 26.8        | -21.67                | -288.4                            | 1,366.6    | 611.5                | 589.8                 | 21.71                  | 28.169            |                    |        |
| 5,500.0   | 5,424.1             | 5,468.6             | 5,265.9             | 17.8            | 27.4        | -21.49                | -295.3                            | 1,399.0    | 628.6                | 606.5                 | 22.05                  | 28.502            |                    |        |
| 5,600.0   | 5,523.7             | 5,594.9             | 5,388.6             | 18.1            | 27.9        | -21.34                | -301.5                            | 1,428.0    | 643.1                | 620.7                 | 22.40                  | 28.711            |                    |        |
| 5,700.0   | 5,623.4             | 5,722.4             | 5,513.8             | 18.2            | 28.4        | -21.23                | -306.7                            | 1,451.9    | 655.0                | 632.2                 | 22.74                  | 28.804            |                    |        |
| 5,800.0   | 5,723.2             | 5,850.9             | 5,640.8             | 18.4            | 28.7        | -21.14                | -310.6                            | 1,470.5    | 664.1                | 641.1                 | 23.07                  | 28.785            |                    |        |
| 5,900.0   | 5,823.2             | 5,980.1             | 5,769.4             | 18.6            | 29.0        | -21.08                | -313.4                            | 1,483.5    | 670.5                | 647.1                 | 23.40                  | 28.655            |                    |        |
| 6,000.0   | 5,923.1             | 6,109.8             | 5,898.9             | 18.7            | 29.2        | -21.05                | -315.0                            | 1,490.8    | 674.1                | 650.4                 | 23.72                  | 28.420            |                    |        |
| 6,076.9   | 6,000.0             | 6,209.7             | 5,998.7             | 18.7            | 29.2        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 651.0                 | 23.96                  | 28.168            |                    |        |
| 6,100.0   | 6,023.1             | 6,233.1             | 6,022.1             | 18.8            | 29.3        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 650.9                 | 24.03                  | 28.083            |                    |        |
| 6,200.0   | 6,123.1             | 6,333.1             | 6,122.1             | 18.9            | 29.3        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 650.6                 | 24.35                  | 27.724            |                    |        |
| 6,300.0   | 6,223.1             | 6,433.1             | 6,222.1             | 19.0            | 29.4        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 650.3                 | 24.66                  | 27.372            |                    |        |
| 6,400.0   | 6,323.1             | 6,533.1             | 6,322.1             | 19.1            | 29.5        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 650.0                 | 24.97                  | 27.029            |                    |        |
| 6,500.0   | 6,423.1             | 6,633.1             | 6,422.1             | 19.2            | 29.5        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 649.7                 | 25.29                  | 26.693            |                    |        |
| 6,600.0   | 6,523.1             | 6,733.1             | 6,522.1             | 19.3            | 29.6        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 649.4                 | 25.60                  | 26.364            |                    |        |
| 6,665.9   | 6,589.0             | 6,799.1             | 6,588.0             | 19.3            | 29.6        | 90.03                 | -315.4                            | 1,492.6    | 675.0                | 649.2                 | 25.81                  | 26.151            |                    |        |
| 6,700.0   | 6,623.1             | 6,833.2             | 6,622.1             | 19.4            | 29.6        | 90.03                 | -314.3                            | 1,492.6    | 675.0                | 649.1                 | 25.88                  | 26.079            |                    |        |
| 6,750.0   | 6,672.8             | 6,883.2             | 6,671.9             | 19.4            | 29.7        | 90.03                 | -309.2                            | 1,492.6    | 675.0                | 649.0                 | 25.93                  | 26.026            |                    |        |
| 6,800.0   | 6,721.9             | 6,933.2             | 6,721.0             | 19.4            | 29.7        | 90.03                 | -299.7                            | 1,492.6    | 675.0                | 649.0                 | 25.93                  | 26.028            |                    |        |
| 6,850.0   | 6,770.0             | 6,983.2             | 6,769.1             | 19.4            | 29.6        | 90.03                 | -286.0                            | 1,492.6    | 675.0                | 649.1                 | 25.88                  | 26.078            |                    |        |
| 6,900.0   | 6,816.7             | 7,033.3             | 6,815.8             | 19.3            | 29.6        | 90.03                 | -268.2                            | 1,492.6    | 675.0                | 649.2                 | 25.80                  | 26.166            |                    |        |
| 6,950.0   | 6,861.6             | 7,083.3             | 6,860.8             | 19.3            | 29.6        | 90.03                 | -246.3                            | 1,492.6    | 675.0                | 649.3                 | 25.69                  | 26.279            |                    |        |
| 7,000.0   | 6,904.5             | 7,133.3             | 6,903.7             | 19.3            | 29.6        | 90.03                 | -220.6                            | 1,492.6    | 675.0                | 649.4                 | 25.57                  | 26.402            |                    |        |
| 7,050.0   | 6,945.0             | 7,183.4             | 6,944.2             | 19.2            | 29.5        | 90.02                 | -191.2                            | 1,492.6    | 675.0                | 649.5                 | 25.45                  | 26.519            |                    |        |
| 7,100.0   | 6,982.8             | 7,233.4             | 6,982.0             | 19.2            | 29.5        | 90.02                 | -158.5                            | 1,492.6    | 675.0                | 649.6                 | 25.36                  | 26.612            |                    |        |
| 7,150.0   | 7,017.6             | 7,283.4             | 7,016.7             | 19.2            | 29.5        | 90.02                 | -122.5                            | 1,492.6    | 675.0                | 649.7                 | 25.32                  | 26.661            |                    |        |
| 7,200.0   | 7,049.1             | 7,333.4             | 7,048.2             | 19.2            | 29.5        | 90.02                 | -83.7                             | 1,492.6    | 675.0                | 649.6                 | 25.33                  | 26.647            |                    |        |
| 7,250.0   | 7,077.1             | 7,383.4             | 7,076.2             | 19.2            | 29.5        | 90.02                 | -42.3                             | 1,492.6    | 675.0                | 649.6                 | 25.42                  | 26.554            |                    |        |
| 7,300.0   | 7,101.4             | 7,433.5             | 7,100.5             | 19.2            | 29.5        | 90.01                 | 1.4                               | 1,492.6    | 675.0                | 649.4                 | 25.60                  | 26.369            |                    |        |
| 7,350.0   | 7,121.8             | 7,483.5             | 7,120.9             | 19.3            | 29.6        | 90.01                 | 47.1                              | 1,492.6    | 675.0                | 649.1                 | 25.88                  | 26.086            |                    |        |
| 7,400.0   | 7,138.1             | 7,533.5             | 7,137.2             | 19.4            | 29.7        | 90.01                 | 94.3                              | 1,492.6    | 675.0                | 648.7                 | 26.26                  | 25.704            |                    |        |
| 7,450.0   | 7,150.3             | 7,583.5             | 7,149.4             | 19.6            | 29.8        | 90.01                 | 142.8                             | 1,492.6    | 675.0                | 648.2                 | 26.75                  | 25.231            |                    |        |
| 7,500.0   | 7,158.2             | 7,633.5             | 7,157.3             | 19.8            | 29.9        | 90.00                 | 192.2                             | 1,492.6    | 675.0                | 647.6                 | 27.35                  | 24.679            |                    |        |
| 7,550.0   | 7,161.8             | 7,683.5             | 7,160.8             | 20.0            | 30.0        | 90.00                 | 242.0                             | 1,492.6    | 675.0                | 646.9                 | 28.05                  | 24.065            |                    |        |
| 7,565.9   | 7,162.0             | 7,699.4             | 7,161.0             | 20.1            | 30.1        | 90.00                 | 258.0                             | 1,492.6    | 675.0                | 646.7                 | 28.28                  | 23.864            |                    |        |
| 7,600.0   | 7,162.0             | 7,733.5             | 7,161.0             | 20.3            | 30.2        | 90.00                 | 292.0                             | 1,492.6    | 675.0                | 646.1                 | 28.85                  | 23.397            |                    |        |
| 7,700.0   | 7,162.0             | 7,833.5             | 7,161.0             | 20.9            | 30.6        | 90.00                 | 392.0                             | 1,492.6    | 675.0                | 644.3                 | 30.66                  | 22.013            |                    |        |
| 7,800.0   | 7,162.0             | 7,933.5             | 7,161.0             | 21.7            | 31.1        | 90.00                 | 492.0                             | 1,492.6    | 675.0                | 642.2                 | 32.75                  | 20.608            |                    |        |
| 7,900.0   | 7,162.0             | 8,033.5             | 7,161.0             | 22.6            | 31.7        | 90.00                 | 592.0                             | 1,492.6    | 675.0                | 639.9                 | 35.07                  | 19.246            |                    |        |
| 8,000.0   | 7,162.0             | 8,133.5             | 7,161.0             | 23.6            | 32.4        | 90.00                 | 692.0                             | 1,492.6    | 675.0                | 637.4                 | 37.57                  | 17.964            |                    |        |
| 8,100.0   | 7,162.0             | 8,233.5             | 7,161.0             | 24.6            | 33.1        | 90.00                 | 792.0                             | 1,492.6    | 675.0                | 634.8                 | 40.23                  | 16.779            |                    |        |
| 8,200.0   | 7,162.0             | 8,333.5             | 7,161.0             | 25.8            | 33.9        | 90.00                 | 892.0                             | 1,492.6    | 675.0                | 632.0                 | 43.00                  | 15.695            |                    |        |
| 8,300.0   | 7,162.0             | 8,433.5             | 7,161.0             | 27.0            | 34.8        | 90.00                 | 992.0                             | 1,492.6    | 675.0                | 629.1                 | 45.88                  | 14.711            |                    |        |
| 8,400.0   | 7,162.0             | 8,533.5             | 7,161.0             | 28.2            | 35.8        | 90.00                 | 1,092.0                           | 1,492.6    | 675.0                | 626.1                 | 48.84                  | 13.820            |                    |        |
| 8,500.0   | 7,162.0             | 8,633.5             | 7,161.0             | 29.6            | 36.8        | 90.00                 | 1,192.0                           | 1,492.6    | 675.0                | 623.1                 | 51.87                  | 13.013            |                    |        |
| 8,600.0   | 7,162.0             | 8,733.5             | 7,161.0             | 30.9            | 37.9        | 90.00                 | 1,292.0                           | 1,492.6    | 675.0                | 620.0                 | 54.95                  | 12.283            |                    |        |
| 8,700.0   | 7,162.0             | 8,833.5             | 7,161.0             | 32.3            | 39.0        | 90.00                 | 1,392.0                           | 1,492.6    | 675.0                | 616.9                 | 58.09                  | 11.620            |                    |        |
| 8,800.0   | 7,162.0             | 8,933.5             | 7,161.0             | 33.7            | 40.2        | 90.00                 | 1,492.0                           | 1,492.6    | 675.0                | 613.7                 | 61.26                  | 11.018            |                    |        |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design   |                | S20-T2N-R64W (Dale) - Dale 4K-20H-O264 - HZ - Plan #1 |                |                 |        |                   |                        |                 |                  |                        |                   | Offset Site Error: |  | 0.0 ft  |  |
|-----------------|----------------|---|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|------------------------|-------------------|--------------------|--|---------|--|
| Survey Program: |                | 0-Geolink MWD   |                |                 |        |                   |                        |                 |                  |                        |                   | Offset Well Error: |  | 0.0 ft  |  |
| Reference       |                | Offset  |                | Semi Major Axis |        |                   | Distance               |                 |                  |                        |                   |                    |  | Warning |  |
| Measured Depth  | Vertical Depth | Measured Depth  | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor |                    |  |         |  |
| (ft)            | (ft)           | (ft)  | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)                   |                   |                    |  |         |  |
| 8,900.0         | 7,162.0        | 9,033.5   | 7,161.0        | 35.2            | 41.4   | 90.00             | 1,592.0                | 1,492.6         | 675.0            | 610.5                  | 64.47             | 10.470             |  |         |  |
| 9,000.0         | 7,162.0        | 9,133.5   | 7,161.0        | 36.7            | 42.7   | 90.00             | 1,692.0                | 1,492.6         | 675.0            | 607.3                  | 67.71             | 9.969              |  |         |  |
| 9,100.0         | 7,162.0        | 9,233.5   | 7,161.0        | 38.2            | 44.0   | 90.00             | 1,792.0                | 1,492.6         | 675.0            | 604.0                  | 70.97             | 9.511              |  |         |  |
| 9,200.0         | 7,162.0        | 9,333.5   | 7,161.0        | 39.7            | 45.3   | 90.00             | 1,892.0                | 1,492.6         | 675.0            | 600.7                  | 74.26             | 9.090              |  |         |  |
| 9,300.0         | 7,162.0        | 9,433.5   | 7,161.0        | 41.3            | 46.7   | 90.00             | 1,992.0                | 1,492.6         | 675.0            | 597.4                  | 77.56             | 8.702              |  |         |  |
| 9,400.0         | 7,162.0        | 9,533.5   | 7,161.0        | 42.8            | 48.0   | 90.00             | 2,092.0                | 1,492.6         | 675.0            | 594.1                  | 80.89             | 8.345              |  |         |  |
|                 |                |   |                |                 |        |                   |                        |                 |                  |                        |                   |                    |  |         |  |
| 9,500.0         | 7,162.0        | 9,633.5   | 7,161.0        | 44.4            | 49.4   | 90.00             | 2,192.0                | 1,492.6         | 675.0            | 590.8                  | 84.22             | 8.014              |  |         |  |
| 9,600.0         | 7,162.0        | 9,733.5   | 7,161.0        | 46.0            | 50.9   | 90.00             | 2,292.0                | 1,492.6         | 675.0            | 587.4                  | 87.58             | 7.707              |  |         |  |
| 9,700.0         | 7,162.0        | 9,833.5   | 7,161.0        | 47.6            | 52.3   | 90.00             | 2,392.0                | 1,492.6         | 675.0            | 584.1                  | 90.94             | 7.422              |  |         |  |
| 9,800.0         | 7,162.0        | 9,933.5   | 7,161.0        | 49.2            | 53.8   | 90.00             | 2,492.0                | 1,492.6         | 675.0            | 580.7                  | 94.31             | 7.157              |  |         |  |
| 9,900.0         | 7,162.0        | 10,033.5  | 7,161.0        | 50.9            | 55.3   | 90.00             | 2,592.0                | 1,492.6         | 675.0            | 577.3                  | 97.70             | 6.909              |  |         |  |
|                 |                |   |                |                 |        |                   |                        |                 |                  |                        |                   |                    |  |         |  |
| 10,000.0        | 7,162.0        | 10,133.5  | 7,161.0        | 52.5            | 56.8   | 90.00             | 2,692.0                | 1,492.6         | 675.0            | 573.9                  | 101.09            | 6.677              |  |         |  |
| 10,100.0        | 7,162.0        | 10,233.5  | 7,161.0        | 54.1            | 58.3   | 90.00             | 2,792.0                | 1,492.6         | 675.0            | 570.5                  | 104.49            | 6.460              |  |         |  |
| 10,200.0        | 7,162.0        | 10,333.5  | 7,161.0        | 55.8            | 59.8   | 90.00             | 2,892.0                | 1,492.6         | 675.0            | 567.1                  | 107.89            | 6.256              |  |         |  |
| 10,300.0        | 7,162.0        | 10,433.5  | 7,161.0        | 57.4            | 61.4   | 90.00             | 2,992.0                | 1,492.6         | 675.0            | 563.7                  | 111.31            | 6.064              |  |         |  |
| 10,400.0        | 7,162.0        | 10,533.5  | 7,161.0        | 59.1            | 62.9   | 90.00             | 3,092.0                | 1,492.6         | 675.0            | 560.3                  | 114.72            | 5.884              |  |         |  |
|                 |                |   |                |                 |        |                   |                        |                 |                  |                        |                   |                    |  |         |  |
| 10,500.0        | 7,162.0        | 10,633.5  | 7,161.0        | 60.7            | 64.5   | 90.00             | 3,192.0                | 1,492.6         | 675.0            | 556.8                  | 118.15            | 5.713              |  |         |  |
| 10,600.0        | 7,162.0        | 10,733.5  | 7,161.0        | 62.4            | 66.0   | 90.00             | 3,292.0                | 1,492.6         | 675.0            | 553.4                  | 121.58            | 5.552              |  |         |  |
| 10,700.0        | 7,162.0        | 10,833.5  | 7,161.0        | 64.1            | 67.6   | 90.00             | 3,392.0                | 1,492.6         | 675.0            | 550.0                  | 125.01            | 5.400              |  |         |  |
| 10,800.0        | 7,162.0        | 10,933.5  | 7,161.0        | 65.8            | 69.2   | 90.00             | 3,492.0                | 1,492.6         | 675.0            | 546.6                  | 128.45            | 5.255              |  |         |  |
| 10,900.0        | 7,162.0        | 11,033.5  | 7,161.0        | 67.4            | 70.8   | 90.00             | 3,592.0                | 1,492.6         | 675.0            | 543.1                  | 131.89            | 5.118              |  |         |  |
|                 |                |   |                |                 |        |                   |                        |                 |                  |                        |                   |                    |  |         |  |
| 11,000.0        | 7,162.0        | 11,133.5  | 7,161.0        | 69.1            | 72.4   | 90.00             | 3,692.0                | 1,492.6         | 675.0            | 539.7                  | 135.33            | 4.988              |  |         |  |
| 11,100.0        | 7,162.0        | 11,233.5  | 7,161.0        | 70.8            | 74.0   | 90.00             | 3,792.0                | 1,492.6         | 675.0            | 536.2                  | 138.78            | 4.864              |  |         |  |
| 11,200.0        | 7,162.0        | 11,333.5  | 7,161.0        | 72.5            | 75.7   | 90.00             | 3,892.0                | 1,492.6         | 675.0            | 532.8                  | 142.23            | 4.746              |  |         |  |
| 11,300.0        | 7,162.0        | 11,433.5  | 7,161.0        | 74.2            | 77.3   | 90.00             | 3,992.0                | 1,492.6         | 675.0            | 529.3                  | 145.68            | 4.633              |  |         |  |
| 11,400.0        | 7,162.0        | 11,533.5  | 7,161.0        | 75.9            | 78.9   | 90.00             | 4,092.0                | 1,492.6         | 675.0            | 525.9                  | 149.14            | 4.526              |  |         |  |
|                 |                |   |                |                 |        |                   |                        |                 |                  |                        |                   |                    |  |         |  |
| 11,500.0        | 7,162.0        | 11,633.5  | 7,161.0        | 77.6            | 80.5   | 90.00             | 4,192.0                | 1,492.6         | 675.0            | 522.4                  | 152.59            | 4.424              |  |         |  |
| 11,600.0        | 7,162.0        | 11,733.5  | 7,161.0        | 79.3            | 82.2   | 90.00             | 4,292.0                | 1,492.6         | 675.0            | 518.9                  | 156.05            | 4.325              |  |         |  |
| 11,700.0        | 7,162.0        | 11,833.5  | 7,161.0        | 81.0            | 83.8   | 90.00             | 4,392.0                | 1,492.6         | 675.0            | 515.5                  | 159.52            | 4.232              |  |         |  |
| 11,801.7        | 7,162.0        | 11,935.2  | 7,161.0        | 82.7            | 85.5   | 90.00             | 4,493.8                | 1,492.6         | 675.0            | 512.0                  | 163.04            | 4.140 SF           |  |         |  |



## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WELL |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 7877-Geolink MWD  |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference   |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | Total<br>Uncertainty<br>Axis | Separation<br>Factor | Warning            |        |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                              |                      |                    |        |
| 0.0   | 0.0                       | 0.0                       | 0.0                       | 0.0               | 0.0            | 4.19                        | 1,301.9                                 | 95.4          | 1,306.9                    |                             |                              |                      |                    |        |
| 100.0   | 100.0                     | 37.0                      | 37.0                      | 0.1               | 0.1            | 4.19                        | 1,301.9                                 | 95.4          | 1,305.4                    | 1,305.2                     | 0.19                         | 6,982.761            |                    |        |
| 200.0   | 200.0                     | 137.0                     | 137.0                     | 0.3               | 0.2            | 4.19                        | 1,301.9                                 | 95.4          | 1,305.4                    | 1,304.9                     | 0.54                         | 2,435.433            |                    |        |
| 300.0   | 300.0                     | 237.0                     | 237.0                     | 0.5               | 0.4            | 4.19                        | 1,301.9                                 | 95.4          | 1,305.4                    | 1,304.5                     | 0.89                         | 1,474.928            |                    |        |
| 350.0   | 350.0                     | 287.0                     | 287.0                     | 0.6               | 0.5            | 4.19                        | 1,301.9                                 | 95.4          | 1,305.4                    | 1,304.4                     | 1.06                         | 1,231.987            |                    |        |
| 400.0   | 400.0                     | 337.0                     | 337.0                     | 0.6               | 0.6            | -106.89                     | 1,301.9                                 | 95.4          | 1,305.5                    | 1,304.3                     | 1.23                         | 1,057.779            |                    |        |
| 500.0   | 500.0                     | 437.0                     | 437.0                     | 0.8               | 0.8            | -106.96                     | 1,301.9                                 | 95.4          | 1,306.0                    | 1,304.4                     | 1.58                         | 824.112              |                    |        |
| 600.0   | 599.9                     | 536.9                     | 536.9                     | 1.0               | 0.9            | -107.09                     | 1,301.9                                 | 95.4          | 1,307.0                    | 1,305.1                     | 1.94                         | 673.820              |                    |        |
| 700.0   | 699.8                     | 636.8                     | 636.8                     | 1.2               | 1.1            | -107.30                     | 1,301.9                                 | 95.4          | 1,308.6                    | 1,306.3                     | 2.30                         | 568.372              |                    |        |
| 800.0   | 799.5                     | 736.5                     | 736.5                     | 1.4               | 1.3            | -107.57                     | 1,301.9                                 | 95.4          | 1,310.7                    | 1,308.0                     | 2.68                         | 489.859              |                    |        |
| 900.0   | 899.2                     | 836.2                     | 836.2                     | 1.6               | 1.5            | -107.90                     | 1,301.9                                 | 95.4          | 1,313.3                    | 1,310.3                     | 3.06                         | 428.859              |                    |        |
| 1,000.0   | 998.6                     | 935.6                     | 935.6                     | 1.8               | 1.6            | -108.30                     | 1,301.9                                 | 95.4          | 1,316.6                    | 1,313.1                     | 3.47                         | 379.960              |                    |        |
| 1,100.0   | 1,097.9                   | 1,034.9                   | 1,034.9                   | 2.1               | 1.8            | -108.77                     | 1,301.9                                 | 95.4          | 1,320.5                    | 1,316.6                     | 3.89                         | 339.834              |                    |        |
| 1,200.0   | 1,196.9                   | 1,133.9                   | 1,133.9                   | 2.4               | 2.0            | -109.29                     | 1,301.9                                 | 95.4          | 1,325.1                    | 1,320.7                     | 4.33                         | 306.320              |                    |        |
| 1,300.0   | 1,295.7                   | 1,232.7                   | 1,232.7                   | 2.7               | 2.2            | -109.87                     | 1,301.9                                 | 95.4          | 1,330.4                    | 1,325.6                     | 4.79                         | 277.948              |                    |        |
| 1,400.0   | 1,394.1                   | 1,331.1                   | 1,331.1                   | 3.0               | 2.3            | -110.50                     | 1,301.9                                 | 95.4          | 1,336.4                    | 1,331.2                     | 5.27                         | 253.677              |                    |        |
| 1,437.9   | 1,431.4                   | 1,368.4                   | 1,368.4                   | 3.1               | 2.4            | -110.75                     | 1,301.9                                 | 95.4          | 1,339.0                    | 1,333.5                     | 5.45                         | 245.469              |                    |        |
| 1,500.0   | 1,492.4                   | 1,429.4                   | 1,429.4                   | 3.4               | 2.5            | -111.21                     | 1,301.9                                 | 95.4          | 1,343.2                    | 1,337.5                     | 5.76                         | 233.153              |                    |        |
| 1,600.0   | 1,590.6                   | 1,527.6                   | 1,527.6                   | 3.7               | 2.7            | -111.95                     | 1,301.9                                 | 95.4          | 1,350.3                    | 1,344.0                     | 6.26                         | 215.799              |                    |        |
| 1,700.0   | 1,688.8                   | 1,625.8                   | 1,625.8                   | 4.1               | 2.8            | -112.68                     | 1,301.9                                 | 95.4          | 1,357.6                    | 1,350.8                     | 6.75                         | 200.985              |                    |        |
| 1,800.0   | 1,787.0                   | 1,724.0                   | 1,724.0                   | 4.4               | 3.0            | -113.40                     | 1,301.9                                 | 95.4          | 1,365.1                    | 1,357.8                     | 7.25                         | 188.226              |                    |        |
| 1,900.0   | 1,885.2                   | 1,822.2                   | 1,822.2                   | 4.8               | 3.2            | -114.11                     | 1,301.9                                 | 95.4          | 1,372.8                    | 1,365.0                     | 7.75                         | 177.145              |                    |        |
| 2,000.0   | 1,983.4                   | 1,920.4                   | 1,920.4                   | 5.2               | 3.4            | -114.81                     | 1,301.9                                 | 95.4          | 1,380.7                    | 1,372.5                     | 8.25                         | 167.448              |                    |        |
| 2,100.0   | 2,081.6                   | 2,018.6                   | 2,018.6                   | 5.5               | 3.5            | -115.51                     | 1,301.9                                 | 95.4          | 1,388.8                    | 1,380.1                     | 8.74                         | 158.904              |                    |        |
| 2,200.0   | 2,179.8                   | 2,116.8                   | 2,116.8                   | 5.9               | 3.7            | -116.20                     | 1,301.9                                 | 95.4          | 1,397.2                    | 1,388.0                     | 9.23                         | 151.329              |                    |        |
| 2,300.0   | 2,278.0                   | 2,215.0                   | 2,215.0                   | 6.3               | 3.9            | -116.88                     | 1,301.9                                 | 95.4          | 1,405.8                    | 1,396.0                     | 9.72                         | 144.574              |                    |        |
| 2,400.0   | 2,376.2                   | 2,313.2                   | 2,313.2                   | 6.6               | 4.0            | -117.55                     | 1,301.9                                 | 95.4          | 1,414.5                    | 1,404.3                     | 10.21                        | 138.519              |                    |        |
| 2,500.0   | 2,474.4                   | 2,411.4                   | 2,411.4                   | 7.0               | 4.2            | -118.22                     | 1,301.9                                 | 95.4          | 1,423.5                    | 1,412.8                     | 10.70                        | 133.067              |                    |        |
| 2,600.0   | 2,572.6                   | 2,509.6                   | 2,509.6                   | 7.4               | 4.4            | -118.87                     | 1,301.9                                 | 95.4          | 1,432.6                    | 1,421.4                     | 11.18                        | 128.136              |                    |        |
| 2,700.0   | 2,670.8                   | 2,607.8                   | 2,607.8                   | 7.7               | 4.6            | -119.52                     | 1,301.9                                 | 95.4          | 1,441.9                    | 1,430.3                     | 11.66                        | 123.658              |                    |        |
| 2,800.0   | 2,769.0                   | 2,706.0                   | 2,706.0                   | 8.1               | 4.7            | -120.16                     | 1,301.9                                 | 95.4          | 1,451.5                    | 1,439.3                     | 12.14                        | 119.578              |                    |        |
| 2,900.0   | 2,867.2                   | 2,804.2                   | 2,804.2                   | 8.5               | 4.9            | -120.79                     | 1,301.9                                 | 95.4          | 1,461.2                    | 1,448.6                     | 12.61                        | 115.848              |                    |        |
| 3,000.0   | 2,965.4                   | 2,902.4                   | 2,902.4                   | 8.9               | 5.1            | -121.41                     | 1,301.9                                 | 95.4          | 1,471.0                    | 1,458.0                     | 13.08                        | 112.427              |                    |        |
| 3,100.0   | 3,063.6                   | 3,000.6                   | 3,000.6                   | 9.2               | 5.2            | -122.03                     | 1,301.9                                 | 95.4          | 1,481.1                    | 1,467.5                     | 13.55                        | 109.281              |                    |        |
| 3,200.0   | 3,161.8                   | 3,098.8                   | 3,098.8                   | 9.6               | 5.4            | -122.64                     | 1,301.9                                 | 95.4          | 1,491.3                    | 1,477.3                     | 14.02                        | 106.380              |                    |        |
| 3,300.0   | 3,260.0                   | 3,197.0                   | 3,197.0                   | 10.0              | 5.6            | -123.24                     | 1,301.9                                 | 95.4          | 1,501.7                    | 1,487.2                     | 14.48                        | 103.699              |                    |        |
| 3,400.0   | 3,358.2                   | 3,295.2                   | 3,295.2                   | 10.4              | 5.8            | -123.83                     | 1,301.9                                 | 95.4          | 1,512.3                    | 1,497.3                     | 14.94                        | 101.215              |                    |        |
| 3,500.0   | 3,456.4                   | 3,393.4                   | 3,393.4                   | 10.7              | 5.9            | -124.41                     | 1,301.9                                 | 95.4          | 1,523.0                    | 1,507.6                     | 15.40                        | 98.909               |                    |        |
| 3,600.0   | 3,554.6                   | 3,491.6                   | 3,491.6                   | 11.1              | 6.1            | -124.98                     | 1,301.9                                 | 95.4          | 1,533.9                    | 1,518.0                     | 15.85                        | 96.764               |                    |        |
| 3,700.0   | 3,652.8                   | 3,589.8                   | 3,589.8                   | 11.5              | 6.3            | -125.55                     | 1,301.9                                 | 95.4          | 1,544.9                    | 1,528.6                     | 16.30                        | 94.766               |                    |        |
| 7,250.0   | 7,077.1                   | 7,014.1                   | 7,014.1                   | 19.2              | 12.2           | -45.73                      | 1,301.9                                 | 95.4          | 1,525.9                    | 1,503.5                     | 22.37                        | 68.222               |                    |        |
| 7,300.0   | 7,101.4                   | 7,038.4                   | 7,038.4                   | 19.2              | 12.3           | -51.13                      | 1,301.9                                 | 95.4          | 1,487.5                    | 1,465.0                     | 22.58                        | 65.867               |                    |        |
| 7,350.0   | 7,121.8                   | 7,058.8                   | 7,058.8                   | 19.3              | 12.3           | -57.41                      | 1,301.9                                 | 95.4          | 1,447.8                    | 1,424.7                     | 23.13                        | 62.587               |                    |        |
| 7,400.0   | 7,138.1                   | 7,075.1                   | 7,075.1                   | 19.4              | 12.3           | -64.48                      | 1,301.9                                 | 95.4          | 1,407.1                    | 1,383.2                     | 23.93                        | 58.808               |                    |        |
| 7,450.0   | 7,150.3                   | 7,087.3                   | 7,087.3                   | 19.6              | 12.4           | -72.13                      | 1,301.9                                 | 95.4          | 1,365.7                    | 1,340.9                     | 24.81                        | 55.044               |                    |        |
| 7,500.0   | 7,158.2                   | 7,095.2                   | 7,095.2                   | 19.8              | 12.4           | -80.00                      | 1,301.9                                 | 95.4          | 1,324.1                    | 1,298.5                     | 25.62                        | 51.675               |                    |        |
| 7,550.0   | 7,161.8                   | 7,098.8                   | 7,098.8                   | 20.0              | 12.4           | -87.67                      | 1,301.9                                 | 95.4          | 1,282.6                    | 1,256.3                     | 26.27                        | 48.832               |                    |        |
| 7,565.9   | 7,162.0                   | 7,099.0                   | 7,099.0                   | 20.1              | 12.4           | -90.00                      | 1,301.9                                 | 95.4          | 1,269.5                    | 1,243.0                     | 26.43                        | 48.027               |                    |        |
| 7,600.0   | 7,162.0                   | 7,099.0                   | 7,099.0                   | 20.3              | 12.4           | -90.00                      | 1,301.9                                 | 95.4          | 1,241.6                    | 1,214.9                     | 26.71                        | 46.490               |                    |        |
| 7,700.0   | 7,162.0                   | 7,099.0                   | 7,099.0                   | 20.9              | 12.4           | -90.00                      | 1,301.9                                 | 95.4          | 1,161.7                    | 1,134.1                     | 27.62                        | 42.062               |                    |        |
| 7,800.0   | 7,162.0                   | 7,099.0                   | 7,099.0                   | 21.7              | 12.4           | -90.00                      | 1,301.9                                 | 95.4          | 1,085.2                    | 1,056.5                     | 28.67                        | 37.850               |                    |        |
| 7,900.0   | 7,162.0                   | 7,099.0                   | 7,099.0                   | 22.6              | 12.4           | -90.00                      | 1,301.9                                 | 95.4          | 1,012.7                    | 982.9                       | 29.83                        | 33.945               |                    |        |

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



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WELL |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|
| Survey Program: 7877-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |
| 8,000.0   | 7,162.0             | 7,099.0             | 7,099.0             | 23.6            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 945.3                | 914.2                 | 31.09                  | 30.405            |                           |
| 8,100.0   | 7,162.0             | 7,099.0             | 7,099.0             | 24.6            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 884.1                | 851.7                 | 32.42                  | 27.268            |                           |
| 8,200.0   | 7,162.0             | 7,099.0             | 7,099.0             | 25.8            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 830.4                | 796.6                 | 33.81                  | 24.559            |                           |
| 8,300.0   | 7,162.0             | 7,099.0             | 7,099.0             | 27.0            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 785.9                | 750.7                 | 35.26                  | 22.291            |                           |
| 8,400.0   | 7,162.0             | 7,099.0             | 7,099.0             | 28.2            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 752.1                | 715.4                 | 36.74                  | 20.472            |                           |
| 8,500.0   | 7,162.0             | 7,099.0             | 7,099.0             | 29.6            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 730.6                | 692.3                 | 38.26                  | 19.096            |                           |
| 8,600.0   | 7,162.0             | 7,099.0             | 7,099.0             | 30.9            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 722.3                | 682.5                 | 39.80                  | 18.147            |                           |
| 8,609.9   | 7,162.0             | 7,099.0             | 7,099.0             | 31.0            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 722.2                | 682.3                 | 39.96                  | 18.075 CC, ES     |                           |
| 8,700.0   | 7,162.0             | 7,099.0             | 7,099.0             | 32.3            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 727.8                | 686.5                 | 41.37                  | 17.593            |                           |
| 8,800.0   | 7,162.0             | 7,099.0             | 7,099.0             | 33.7            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 746.8                | 703.9                 | 42.96                  | 17.384 SF         |                           |
| 8,900.0   | 7,162.0             | 7,099.0             | 7,099.0             | 35.2            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 778.3                | 733.8                 | 44.57                  | 17.464            |                           |
| 9,000.0   | 7,162.0             | 7,099.0             | 7,099.0             | 36.7            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 820.9                | 774.7                 | 46.19                  | 17.772            |                           |
| 9,100.0   | 7,162.0             | 7,099.0             | 7,099.0             | 38.2            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 872.8                | 825.0                 | 47.82                  | 18.252            |                           |
| 9,200.0   | 7,162.0             | 7,099.0             | 7,099.0             | 39.7            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 932.7                | 883.2                 | 49.47                  | 18.854            |                           |
| 9,300.0   | 7,162.0             | 7,099.0             | 7,099.0             | 41.3            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 998.9                | 947.8                 | 51.12                  | 19.541            |                           |
| 9,400.0   | 7,162.0             | 7,099.0             | 7,099.0             | 42.8            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 1,070.5              | 1,017.7               | 52.78                  | 20.280            |                           |
| 9,500.0   | 7,162.0             | 7,099.0             | 7,099.0             | 44.4            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 1,146.3              | 1,091.8               | 54.45                  | 21.050            |                           |
| 9,600.0   | 7,162.0             | 7,099.0             | 7,099.0             | 46.0            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 1,225.5              | 1,169.4               | 56.13                  | 21.834            |                           |
| 9,700.0   | 7,162.0             | 7,099.0             | 7,099.0             | 47.6            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 1,307.7              | 1,249.8               | 57.81                  | 22.619            |                           |
| 9,800.0   | 7,162.0             | 7,099.0             | 7,099.0             | 49.2            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 1,392.1              | 1,332.6               | 59.50                  | 23.397            |                           |
| 9,900.0   | 7,162.0             | 7,099.0             | 7,099.0             | 50.9            | 12.4        | -90.00                | 1,301.9                           | 95.4       | 1,478.5              | 1,417.3               | 61.19                  | 24.161            |                           |



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - KELLER 20-2 (EXISTING) - EXISTING - NOBLE WELL |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 7693-Geolink MWD   |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                              |                      | Warning            |        |
| Measured Depth<br>(ft)   | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Total<br>Uncertainty<br>Axis | Separation<br>Factor |                    |        |
| 9,900.0  | 7,162.0                | 7,068.0                | 7,068.0                | 50.9              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 1,509.8                    | 1,448.6                     | 61.14                        | 24.694               |                    |        |
| 10,000.0   | 7,162.0                | 7,068.0                | 7,068.0                | 52.5              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 1,423.2                    | 1,360.3                     | 62.84                        | 22.649               |                    |        |
| 10,100.0   | 7,162.0                | 7,068.0                | 7,068.0                | 54.1              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 1,338.4                    | 1,273.9                     | 64.54                        | 20.739               |                    |        |
| 10,200.0   | 7,162.0                | 7,068.0                | 7,068.0                | 55.8              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 1,256.0                    | 1,189.7                     | 66.24                        | 18.961               |                    |        |
| 10,300.0   | 7,162.0                | 7,068.0                | 7,068.0                | 57.4              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 1,176.2                    | 1,108.2                     | 67.95                        | 17.310               |                    |        |
| 10,400.0   | 7,162.0                | 7,068.0                | 7,068.0                | 59.1              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 1,099.7                    | 1,030.1                     | 69.66                        | 15.788               |                    |        |
| 10,500.0   | 7,162.0                | 7,068.0                | 7,068.0                | 60.7              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 1,027.4                    | 956.0                       | 71.37                        | 14.395               |                    |        |
| 10,600.0   | 7,162.0                | 7,068.0                | 7,068.0                | 62.4              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 959.9                      | 886.8                       | 73.08                        | 13.135               |                    |        |
| 10,700.0   | 7,162.0                | 7,068.0                | 7,068.0                | 64.1              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 898.6                      | 823.8                       | 74.80                        | 12.013               |                    |        |
| 10,800.0   | 7,162.0                | 7,068.0                | 7,068.0                | 65.8              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 844.7                      | 768.2                       | 76.52                        | 11.039               |                    |        |
| 10,900.0   | 7,162.0                | 7,068.0                | 7,068.0                | 67.4              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 799.7                      | 721.4                       | 78.24                        | 10.221               |                    |        |
| 11,000.0   | 7,162.0                | 7,068.0                | 7,068.0                | 69.1              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 765.2                      | 685.2                       | 79.96                        | 9.569                |                    |        |
| 11,100.0   | 7,162.0                | 7,068.0                | 7,068.0                | 70.8              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 742.6                      | 660.9                       | 81.69                        | 9.091                |                    |        |
| 11,200.0   | 7,162.0                | 7,068.0                | 7,068.0                | 72.5              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 733.2                      | 649.7                       | 83.41                        | 8.789                |                    |        |
| 11,220.0   | 7,162.0                | 7,068.0                | 7,068.0                | 72.8              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 732.9                      | 649.1                       | 83.76                        | 8.750 CC, ES         |                    |        |
| 11,300.0   | 7,162.0                | 7,068.0                | 7,068.0                | 74.2              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 737.2                      | 652.1                       | 85.14                        | 8.659 SF             |                    |        |
| 11,400.0   | 7,162.0                | 7,068.0                | 7,068.0                | 75.9              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 754.7                      | 667.8                       | 86.87                        | 8.688                |                    |        |
| 11,500.0   | 7,162.0                | 7,068.0                | 7,068.0                | 77.6              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 784.6                      | 696.0                       | 88.60                        | 8.855                |                    |        |
| 11,600.0   | 7,162.0                | 7,068.0                | 7,068.0                | 79.3              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 825.6                      | 735.2                       | 90.33                        | 9.140                |                    |        |
| 11,700.0   | 7,162.0                | 7,068.0                | 7,068.0                | 81.0              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 876.1                      | 784.0                       | 92.06                        | 9.517                |                    |        |
| 11,801.7   | 7,162.0                | 7,068.0                | 7,068.0                | 82.7              | 12.3           | -90.00                      | 3,912.0                                 | 84.7          | 935.7                      | 841.9                       | 93.82                        | 9.973                |                    |        |



# Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S20-T2N-R64W (Dale) - RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 7638-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 |                    |        |
| 7,900.0  | 7,162.0             | 7,093.0             | 7,093.0             | 22.6            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,527.8              | 1,498.0               | 29.82                  | 51.227            |                    |        |
| 8,000.0  | 7,162.0             | 7,093.0             | 7,093.0             | 23.6            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,458.6              | 1,427.5               | 31.08                  | 46.931            |                    |        |
| 8,100.0  | 7,162.0             | 7,093.0             | 7,093.0             | 24.6            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,393.2              | 1,360.8               | 32.41                  | 42.984            |                    |        |
| 8,200.0  | 7,162.0             | 7,093.0             | 7,093.0             | 25.8            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,332.0              | 1,298.2               | 33.80                  | 39.405            |                    |        |
| 8,300.0  | 7,162.0             | 7,093.0             | 7,093.0             | 27.0            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,275.8              | 1,240.6               | 35.25                  | 36.198            |                    |        |
| 8,400.0  | 7,162.0             | 7,093.0             | 7,093.0             | 28.2            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,225.2              | 1,188.5               | 36.73                  | 33.358            |                    |        |
| 8,500.0  | 7,162.0             | 7,093.0             | 7,093.0             | 29.6            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,180.9              | 1,142.7               | 38.25                  | 30.877            |                    |        |
| 8,600.0  | 7,162.0             | 7,093.0             | 7,093.0             | 30.9            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,143.7              | 1,103.9               | 39.79                  | 28.742            |                    |        |
| 8,700.0  | 7,162.0             | 7,093.0             | 7,093.0             | 32.3            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,114.2              | 1,072.8               | 41.36                  | 26.938            |                    |        |
| 8,800.0  | 7,162.0             | 7,093.0             | 7,093.0             | 33.7            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,093.1              | 1,050.1               | 42.95                  | 25.450            |                    |        |
| 8,900.0  | 7,162.0             | 7,093.0             | 7,093.0             | 35.2            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,080.9              | 1,036.3               | 44.56                  | 24.258            |                    |        |
| 8,982.9  | 7,162.0             | 7,093.0             | 7,093.0             | 36.4            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,077.7              | 1,031.8               | 45.90                  | 23.479 CC         |                    |        |
| 9,000.0  | 7,162.0             | 7,093.0             | 7,093.0             | 36.7            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,077.8              | 1,031.6               | 46.18                  | 23.341 ES         |                    |        |
| 9,100.0  | 7,162.0             | 7,093.0             | 7,093.0             | 38.2            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,084.0              | 1,036.2               | 47.81                  | 22.673            |                    |        |
| 9,200.0  | 7,162.0             | 7,093.0             | 7,093.0             | 39.7            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,099.3              | 1,049.9               | 49.46                  | 22.228            |                    |        |
| 9,300.0  | 7,162.0             | 7,093.0             | 7,093.0             | 41.3            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,123.4              | 1,072.2               | 51.11                  | 21.979            |                    |        |
| 9,400.0  | 7,162.0             | 7,093.0             | 7,093.0             | 42.8            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,155.6              | 1,102.8               | 52.77                  | 21.897 SF         |                    |        |
| 9,500.0  | 7,162.0             | 7,093.0             | 7,093.0             | 44.4            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,195.3              | 1,140.9               | 54.44                  | 21.955            |                    |        |
| 9,600.0  | 7,162.0             | 7,093.0             | 7,093.0             | 46.0            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,241.8              | 1,185.7               | 56.12                  | 22.128            |                    |        |
| 9,700.0  | 7,162.0             | 7,093.0             | 7,093.0             | 47.6            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,294.5              | 1,236.6               | 57.80                  | 22.394            |                    |        |
| 9,800.0  | 7,162.0             | 7,093.0             | 7,093.0             | 49.2            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,352.4              | 1,292.9               | 59.49                  | 22.733            |                    |        |
| 9,900.0  | 7,162.0             | 7,093.0             | 7,093.0             | 50.9            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,415.1              | 1,353.9               | 61.18                  | 23.129            |                    |        |
| 10,000.0   | 7,162.0             | 7,093.0             | 7,093.0             | 52.5            | 12.4        | -90.00                | 1,675.0                           | -260.1     | 1,481.8              | 1,419.0               | 62.88                  | 23.566            |                    |        |

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well Dale 4H-20H-O264                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4988.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S20-T2N-R64W (Dale)        | <b>MD Reference:</b>                | WELL @ 4988.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Dale 4H-20H-O264           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                      | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | HZ                         | <b>Database:</b>                    | USA EDM 5000 Multi Users DB          |
| <b>Reference Design:</b>  | Plan #1                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

Reference Depths are relative to WELL @ 4988.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Dale 4H-20H-O264

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

