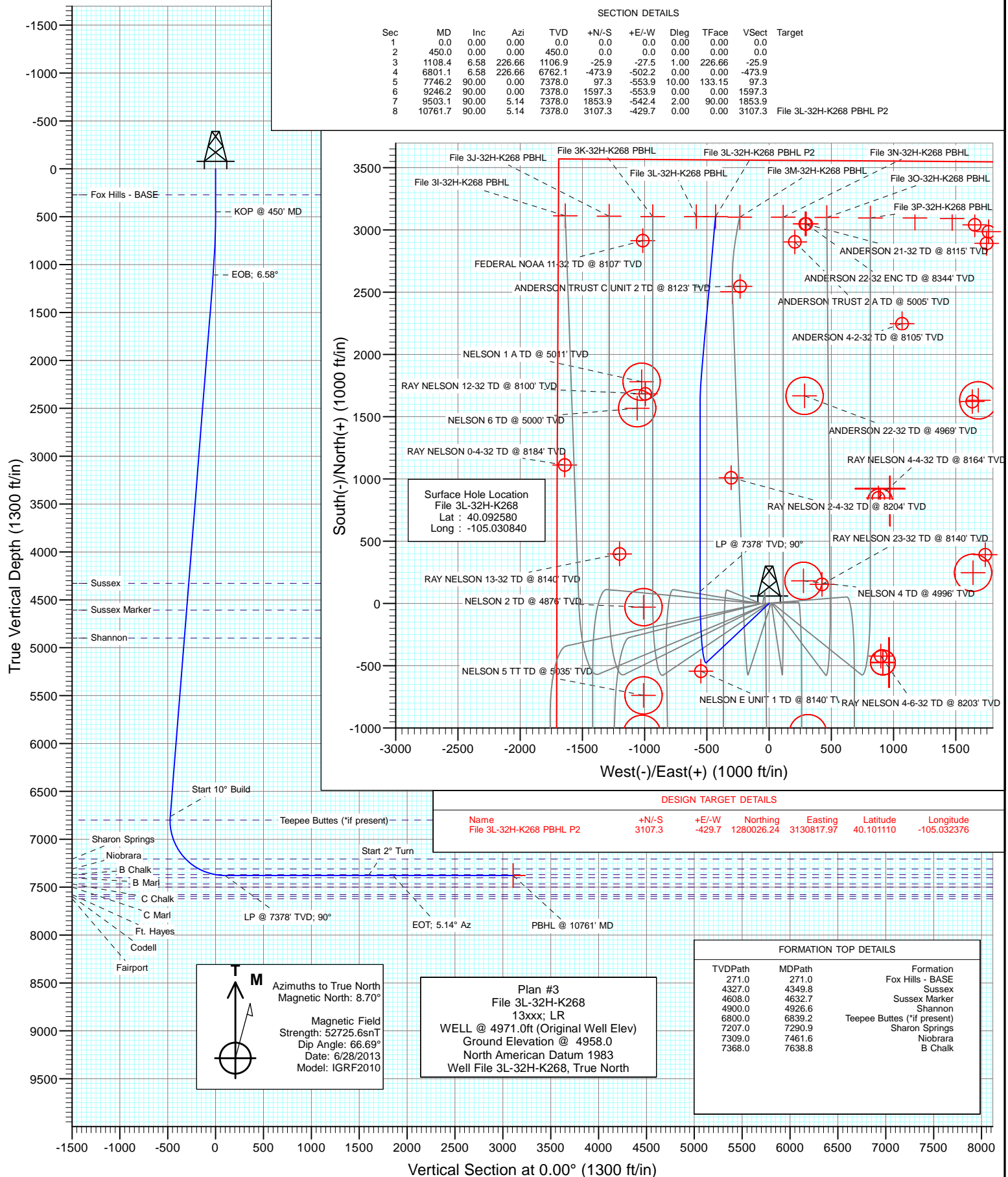




Project: DJ Wattenberg  
Site: S32-T2N-R68W (File/Hwy 52)  
Well: File 3L-32H-K268  
Wellbore: Hz  
Design: Plan #3



# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |                                      |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc  | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Project:</b>  | DJ Wattenberg               | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site:</b>     | S32-T2N-R68W (File/Hwy 52)  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | File 3L-32H-K268            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Hz                          |                                     |                                      |
| <b>Design:</b>   | Plan #3                     |                                     |                                      |

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

|                       |          |                            |                 |                   |             |
|-----------------------|----------|----------------------------|-----------------|-------------------|-------------|
| Site                  |          | S32-T2N-R68W (File/Hwy 52) |                 |                   |             |
| Site Position:        |          | Northing:                  | 1,275,973.93 ft | Latitude:         | 40.089950   |
| From:                 | Lat/Long | Easting:                   | 3,133,277.97 ft | Longitude:        | -105.023660 |
| Position Uncertainty: | 0.0 ft   | Slot Radius:               | 13.200 in       | Grid Convergence: | 0.31 °      |

|                      |                  |        |                     |                 |               |             |
|----------------------|------------------|--------|---------------------|-----------------|---------------|-------------|
| Well                 | File 3L-32H-K268 |        |                     |                 |               |             |
| Well Position        | +N/-S            | 0.0 ft | Northing:           | 1,276,921.24 ft | Latitude:     | 40.092580   |
|                      | +E/-W            | 0.0 ft | Easting:            | 3,131,264.08 ft | Longitude:    | -105.030840 |
| Position Uncertainty |                  | 0.0 ft | Wellhead Elevation: | ft              | Ground Level: | 4,958.0 ft  |

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

|                          |                                  |                       |                       |                          |
|--------------------------|----------------------------------|-----------------------|-----------------------|--------------------------|
| <b>Design</b>            | Plan #3                          |                       |                       |                          |
| <b>Audit Notes:</b>      |                                  |                       |                       |                          |
| <b>Version:</b>          | <b>Phase:</b>                    | PLAN                  | <b>Tie On Depth:</b>  | 0.0                      |
| <b>Vertical Section:</b> | <b>Depth From (TVD)<br/>(ft)</b> | <b>+N/-S<br/>(ft)</b> | <b>+E/-W<br/>(ft)</b> | <b>Direction<br/>(°)</b> |
|                          | 0.0                              | 0.0                   | 0.0                   | 0.00                     |

| <b>Plan Sections</b>      |                    |                |                           |               |               |                             |                            |                           |            |                      |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|----------------------|
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) | TFO<br>(°) | Target               |
| 0.0                       | 0.00               | 0.00           | 0.0                       | 0.0           | 0.0           | 0.00                        | 0.00                       | 0.00                      | 0.00       |                      |
| 450.0                     | 0.00               | 0.00           | 450.0                     | 0.0           | 0.0           | 0.00                        | 0.00                       | 0.00                      | 0.00       |                      |
| 1,108.4                   | 6.58               | 226.66         | 1,106.9                   | -25.9         | -27.5         | 1.00                        | 1.00                       | 0.00                      | 226.66     |                      |
| 6,801.1                   | 6.58               | 226.66         | 6,762.1                   | -473.9        | -502.2        | 0.00                        | 0.00                       | 0.00                      | 0.00       |                      |
| 7,746.2                   | 90.00              | 0.00           | 7,378.0                   | 97.3          | -553.9        | 10.00                       | 8.83                       | 14.11                     | 133.15     |                      |
| 9,246.2                   | 90.00              | 0.00           | 7,378.0                   | 1,597.3       | -553.9        | 0.00                        | 0.00                       | 0.00                      | 0.00       |                      |
| 9,503.1                   | 90.00              | 5.14           | 7,378.0                   | 1,853.9       | -542.4        | 2.00                        | 0.00                       | 2.00                      | 90.00      |                      |
| 10,761.7                  | 90.00              | 5.14           | 7,378.0                   | 3,107.3       | -429.7        | 0.00                        | 0.00                       | 0.00                      | 0.00       | File 3L-32H-K268 PBI |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |                                      |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc  | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Project:</b>  | DJ Wattenberg               | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site:</b>     | S32-T2N-R68W (File/Hwy 52)  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | File 3L-32H-K268            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Hz                          |                                     |                                      |
| <b>Design:</b>   | Plan #3                     |                                     |                                      |

### 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                 |                       |
| 271.0               | 0.00            | 0.00        | 271.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | Fox Hills - BASE      |
| 300.0               | 0.00            | 0.00        | 300.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 |                       |
| 400.0               | 0.00            | 0.00        | 400.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 |                       |
| 450.0               | 0.00            | 0.00        | 450.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | KOP @ 450' MD         |
| 500.0               | 0.50            | 226.66      | 500.0               | -0.1       | -0.2       | -0.1                  | 1.00                  | 1.00                 |                       |
| 600.0               | 1.50            | 226.66      | 600.0               | -1.3       | -1.4       | -1.3                  | 1.00                  | 1.00                 |                       |
| 700.0               | 2.50            | 226.66      | 699.9               | -3.7       | -4.0       | -3.7                  | 1.00                  | 1.00                 |                       |
| 800.0               | 3.50            | 226.66      | 799.8               | -7.3       | -7.8       | -7.3                  | 1.00                  | 1.00                 |                       |
| 900.0               | 4.50            | 226.66      | 899.5               | -12.1      | -12.8      | -12.1                 | 1.00                  | 1.00                 |                       |
| 1,000.0             | 5.50            | 226.66      | 999.2               | -18.1      | -19.2      | -18.1                 | 1.00                  | 1.00                 |                       |
| 1,100.0             | 6.50            | 226.66      | 1,098.6             | -25.3      | -26.8      | -25.3                 | 1.00                  | 1.00                 |                       |
| 1,108.4             | 6.58            | 226.66      | 1,106.9             | -25.9      | -27.5      | -25.9                 | 1.00                  | 1.00                 | EOB; 6.58°            |
| 1,200.0             | 6.58            | 226.66      | 1,197.9             | -33.1      | -35.1      | -33.1                 | 0.00                  | 0.00                 |                       |
| 1,300.0             | 6.58            | 226.66      | 1,297.3             | -41.0      | -43.5      | -41.0                 | 0.00                  | 0.00                 |                       |
| 1,400.0             | 6.58            | 226.66      | 1,396.6             | -48.9      | -51.8      | -48.9                 | 0.00                  | 0.00                 |                       |
| 1,500.0             | 6.58            | 226.66      | 1,496.0             | -56.7      | -60.1      | -56.7                 | 0.00                  | 0.00                 |                       |
| 1,600.0             | 6.58            | 226.66      | 1,595.3             | -64.6      | -68.5      | -64.6                 | 0.00                  | 0.00                 |                       |
| 1,700.0             | 6.58            | 226.66      | 1,694.7             | -72.5      | -76.8      | -72.5                 | 0.00                  | 0.00                 |                       |
| 1,800.0             | 6.58            | 226.66      | 1,794.0             | -80.4      | -85.2      | -80.4                 | 0.00                  | 0.00                 |                       |
| 1,900.0             | 6.58            | 226.66      | 1,893.3             | -88.2      | -93.5      | -88.2                 | 0.00                  | 0.00                 |                       |
| 2,000.0             | 6.58            | 226.66      | 1,992.7             | -96.1      | -101.8     | -96.1                 | 0.00                  | 0.00                 |                       |
| 2,100.0             | 6.58            | 226.66      | 2,092.0             | -104.0     | -110.2     | -104.0                | 0.00                  | 0.00                 |                       |
| 2,200.0             | 6.58            | 226.66      | 2,191.4             | -111.8     | -118.5     | -111.8                | 0.00                  | 0.00                 |                       |
| 2,300.0             | 6.58            | 226.66      | 2,290.7             | -119.7     | -126.8     | -119.7                | 0.00                  | 0.00                 |                       |
| 2,400.0             | 6.58            | 226.66      | 2,390.0             | -127.6     | -135.2     | -127.6                | 0.00                  | 0.00                 |                       |
| 2,500.0             | 6.58            | 226.66      | 2,489.4             | -135.4     | -143.5     | -135.4                | 0.00                  | 0.00                 |                       |
| 2,600.0             | 6.58            | 226.66      | 2,588.7             | -143.3     | -151.9     | -143.3                | 0.00                  | 0.00                 |                       |
| 2,700.0             | 6.58            | 226.66      | 2,688.1             | -151.2     | -160.2     | -151.2                | 0.00                  | 0.00                 |                       |
| 2,800.0             | 6.58            | 226.66      | 2,787.4             | -159.0     | -168.5     | -159.0                | 0.00                  | 0.00                 |                       |
| 2,900.0             | 6.58            | 226.66      | 2,886.7             | -166.9     | -176.9     | -166.9                | 0.00                  | 0.00                 |                       |
| 3,000.0             | 6.58            | 226.66      | 2,986.1             | -174.8     | -185.2     | -174.8                | 0.00                  | 0.00                 |                       |
| 3,100.0             | 6.58            | 226.66      | 3,085.4             | -182.6     | -193.6     | -182.6                | 0.00                  | 0.00                 |                       |
| 3,200.0             | 6.58            | 226.66      | 3,184.8             | -190.5     | -201.9     | -190.5                | 0.00                  | 0.00                 |                       |
| 3,300.0             | 6.58            | 226.66      | 3,284.1             | -198.4     | -210.2     | -198.4                | 0.00                  | 0.00                 |                       |
| 3,400.0             | 6.58            | 226.66      | 3,383.4             | -206.3     | -218.6     | -206.3                | 0.00                  | 0.00                 |                       |
| 3,500.0             | 6.58            | 226.66      | 3,482.8             | -214.1     | -226.9     | -214.1                | 0.00                  | 0.00                 |                       |
| 3,600.0             | 6.58            | 226.66      | 3,582.1             | -222.0     | -235.3     | -222.0                | 0.00                  | 0.00                 |                       |
| 3,700.0             | 6.58            | 226.66      | 3,681.5             | -229.9     | -243.6     | -229.9                | 0.00                  | 0.00                 |                       |
| 3,800.0             | 6.58            | 226.66      | 3,780.8             | -237.7     | -251.9     | -237.7                | 0.00                  | 0.00                 |                       |
| 3,900.0             | 6.58            | 226.66      | 3,880.1             | -245.6     | -260.3     | -245.6                | 0.00                  | 0.00                 |                       |
| 4,000.0             | 6.58            | 226.66      | 3,979.5             | -253.5     | -268.6     | -253.5                | 0.00                  | 0.00                 |                       |
| 4,100.0             | 6.58            | 226.66      | 4,078.8             | -261.3     | -276.9     | -261.3                | 0.00                  | 0.00                 |                       |
| 4,200.0             | 6.58            | 226.66      | 4,178.2             | -269.2     | -285.3     | -269.2                | 0.00                  | 0.00                 |                       |
| 4,300.0             | 6.58            | 226.66      | 4,277.5             | -277.1     | -293.6     | -277.1                | 0.00                  | 0.00                 |                       |
| 4,349.8             | 6.58            | 226.66      | 4,327.0             | -281.0     | -297.8     | -281.0                | 0.00                  | 0.00                 | Sussex                |
| 4,400.0             | 6.58            | 226.66      | 4,376.8             | -284.9     | -302.0     | -284.9                | 0.00                  | 0.00                 |                       |
| 4,500.0             | 6.58            | 226.66      | 4,476.2             | -292.8     | -310.3     | -292.8                | 0.00                  | 0.00                 |                       |
| 4,600.0             | 6.58            | 226.66      | 4,575.5             | -300.7     | -318.6     | -300.7                | 0.00                  | 0.00                 |                       |
| 4,632.7             | 6.58            | 226.66      | 4,608.0             | -303.2     | -321.4     | -303.2                | 0.00                  | 0.00                 | Sussex Marker         |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |                                      |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc  | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Project:</b>  | DJ Wattenberg               | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site:</b>     | S32-T2N-R68W (File/Hwy 52)  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | File 3L-32H-K268            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Hz                          |                                     |                                      |
| <b>Design:</b>   | Plan #3                     |                                     |                                      |

### 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             | 6.58            | 226.66      | 4,674.9             | -308.5     | -327.0     | -308.5                | 0.00                  | 0.00                 |                             |
| 4,800.0             | 6.58            | 226.66      | 4,774.2             | -316.4     | -335.3     | -316.4                | 0.00                  | 0.00                 |                             |
| 4,900.0             | 6.58            | 226.66      | 4,873.5             | -324.3     | -343.7     | -324.3                | 0.00                  | 0.00                 |                             |
| 4,926.6             | 6.58            | 226.66      | 4,900.0             | -326.4     | -345.9     | -326.4                | 0.00                  | 0.00                 | Shannon                     |
| 5,000.0             | 6.58            | 226.66      | 4,972.9             | -332.1     | -352.0     | -332.1                | 0.00                  | 0.00                 |                             |
| 5,100.0             | 6.58            | 226.66      | 5,072.2             | -340.0     | -360.3     | -340.0                | 0.00                  | 0.00                 |                             |
| 5,200.0             | 6.58            | 226.66      | 5,171.6             | -347.9     | -368.7     | -347.9                | 0.00                  | 0.00                 |                             |
| 5,300.0             | 6.58            | 226.66      | 5,270.9             | -355.8     | -377.0     | -355.8                | 0.00                  | 0.00                 |                             |
| 5,400.0             | 6.58            | 226.66      | 5,370.3             | -363.6     | -385.4     | -363.6                | 0.00                  | 0.00                 |                             |
| 5,500.0             | 6.58            | 226.66      | 5,469.6             | -371.5     | -393.7     | -371.5                | 0.00                  | 0.00                 |                             |
| 5,600.0             | 6.58            | 226.66      | 5,568.9             | -379.4     | -402.0     | -379.4                | 0.00                  | 0.00                 |                             |
| 5,700.0             | 6.58            | 226.66      | 5,668.3             | -387.2     | -410.4     | -387.2                | 0.00                  | 0.00                 |                             |
| 5,800.0             | 6.58            | 226.66      | 5,767.6             | -395.1     | -418.7     | -395.1                | 0.00                  | 0.00                 |                             |
| 5,900.0             | 6.58            | 226.66      | 5,867.0             | -403.0     | -427.0     | -403.0                | 0.00                  | 0.00                 |                             |
| 6,000.0             | 6.58            | 226.66      | 5,966.3             | -410.8     | -435.4     | -410.8                | 0.00                  | 0.00                 |                             |
| 6,100.0             | 6.58            | 226.66      | 6,065.6             | -418.7     | -443.7     | -418.7                | 0.00                  | 0.00                 |                             |
| 6,200.0             | 6.58            | 226.66      | 6,165.0             | -426.6     | -452.1     | -426.6                | 0.00                  | 0.00                 |                             |
| 6,300.0             | 6.58            | 226.66      | 6,264.3             | -434.4     | -460.4     | -434.4                | 0.00                  | 0.00                 |                             |
| 6,400.0             | 6.58            | 226.66      | 6,363.7             | -442.3     | -468.7     | -442.3                | 0.00                  | 0.00                 |                             |
| 6,500.0             | 6.58            | 226.66      | 6,463.0             | -450.2     | -477.1     | -450.2                | 0.00                  | 0.00                 |                             |
| 6,600.0             | 6.58            | 226.66      | 6,562.3             | -458.0     | -485.4     | -458.0                | 0.00                  | 0.00                 |                             |
| 6,700.0             | 6.58            | 226.66      | 6,661.7             | -465.9     | -493.8     | -465.9                | 0.00                  | 0.00                 |                             |
| 6,800.0             | 6.58            | 226.66      | 6,761.0             | -473.8     | -502.1     | -473.8                | 0.00                  | 0.00                 |                             |
| 6,801.1             | 6.58            | 226.66      | 6,762.1             | -473.9     | -502.2     | -473.9                | 0.00                  | 0.00                 | Start 10° Build             |
| 6,839.2             | 4.85            | 261.60      | 6,800.0             | -475.6     | -505.4     | -475.6                | 10.00                 | -4.56                | Teepee Buttes (*if present) |
| 6,900.0             | 7.20            | 318.37      | 6,860.5             | -473.1     | -510.4     | -473.1                | 10.00                 | 3.86                 |                             |
| 7,000.0             | 16.09           | 343.08      | 6,958.4             | -455.1     | -518.7     | -455.1                | 10.00                 | 8.89                 |                             |
| 7,100.0             | 25.80           | 350.00      | 7,051.7             | -420.4     | -526.5     | -420.4                | 10.00                 | 9.71                 |                             |
| 7,200.0             | 35.66           | 353.28      | 7,137.6             | -369.9     | -533.7     | -369.9                | 10.00                 | 9.86                 |                             |
| 7,290.9             | 44.67           | 355.13      | 7,207.0             | -311.6     | -539.5     | -311.6                | 10.00                 | 9.91                 | Sharon Springs              |
| 7,300.0             | 45.57           | 355.28      | 7,213.4             | -305.2     | -540.1     | -305.2                | 10.00                 | 9.93                 |                             |
| 7,400.0             | 55.51           | 356.69      | 7,276.9             | -228.2     | -545.4     | -228.2                | 10.00                 | 9.94                 |                             |
| 7,461.6             | 61.65           | 357.40      | 7,309.0             | -175.7     | -548.1     | -175.7                | 10.00                 | 9.95                 | Niobrara                    |
| 7,500.0             | 65.47           | 357.80      | 7,326.1             | -141.4     | -549.5     | -141.4                | 10.00                 | 9.96                 |                             |
| 7,600.0             | 75.43           | 358.75      | 7,359.5             | -47.3      | -552.3     | -47.3                 | 10.00                 | 9.96                 |                             |
| 7,638.8             | 79.30           | 359.09      | 7,368.0             | -9.5       | -553.0     | -9.5                  | 10.00                 | 9.96                 | B Chalk                     |
| 7,700.0             | 85.39           | 359.61      | 7,376.1             | 51.1       | -553.7     | 51.1                  | 10.00                 | 9.96                 |                             |
| 7,746.2             | 90.00           | 0.00        | 7,378.0             | 97.3       | -553.9     | 97.3                  | 10.00                 | 9.96                 | LP @ 7378' TVD; 90°         |
| 7,800.0             | 90.00           | 0.00        | 7,378.0             | 151.1      | -553.9     | 151.1                 | 0.00                  | 0.00                 |                             |
| 7,900.0             | 90.00           | 0.00        | 7,378.0             | 251.1      | -553.9     | 251.1                 | 0.00                  | 0.00                 |                             |
| 8,000.0             | 90.00           | 0.00        | 7,378.0             | 351.1      | -553.9     | 351.1                 | 0.00                  | 0.00                 |                             |
| 8,100.0             | 90.00           | 0.00        | 7,378.0             | 451.1      | -553.9     | 451.1                 | 0.00                  | 0.00                 |                             |
| 8,200.0             | 90.00           | 0.00        | 7,378.0             | 551.1      | -553.9     | 551.1                 | 0.00                  | 0.00                 |                             |
| 8,300.0             | 90.00           | 0.00        | 7,378.0             | 651.1      | -553.9     | 651.1                 | 0.00                  | 0.00                 |                             |
| 8,400.0             | 90.00           | 0.00        | 7,378.0             | 751.1      | -553.9     | 751.1                 | 0.00                  | 0.00                 |                             |
| 8,500.0             | 90.00           | 0.00        | 7,378.0             | 851.1      | -553.9     | 851.1                 | 0.00                  | 0.00                 |                             |
| 8,600.0             | 90.00           | 0.00        | 7,378.0             | 951.1      | -553.9     | 951.1                 | 0.00                  | 0.00                 |                             |
| 8,700.0             | 90.00           | 0.00        | 7,378.0             | 1,051.1    | -553.9     | 1,051.1               | 0.00                  | 0.00                 |                             |
| 8,800.0             | 90.00           | 0.00        | 7,378.0             | 1,151.1    | -553.9     | 1,151.1               | 0.00                  | 0.00                 |                             |
| 8,900.0             | 90.00           | 0.00        | 7,378.0             | 1,251.1    | -553.9     | 1,251.1               | 0.00                  | 0.00                 |                             |
| 9,000.0             | 90.00           | 0.00        | 7,378.0             | 1,351.1    | -553.9     | 1,351.1               | 0.00                  | 0.00                 |                             |
| 9,100.0             | 90.00           | 0.00        | 7,378.0             | 1,451.1    | -553.9     | 1,451.1               | 0.00                  | 0.00                 |                             |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |                                      |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc  | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Project:</b>  | DJ Wattenberg               | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site:</b>     | S32-T2N-R68W (File/Hwy 52)  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | File 3L-32H-K268            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Hz                          |                                     |                                      |
| <b>Design:</b>   | Plan #3                     |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                       |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 9,200.0             | 90.00           | 0.00        | 7,378.0             | 1,551.1    | -553.9     | 1,551.1               | 0.00                  | 0.00                 |                       |
| 9,246.2             | 90.00           | 0.00        | 7,378.0             | 1,597.3    | -553.9     | 1,597.3               | 0.00                  | 0.00                 | Start 2° Turn         |
| 9,300.0             | 90.00           | 1.08        | 7,378.0             | 1,651.1    | -553.4     | 1,651.1               | 2.00                  | 0.00                 |                       |
| 9,400.0             | 90.00           | 3.08        | 7,378.0             | 1,751.0    | -549.8     | 1,751.0               | 2.00                  | 0.00                 |                       |
| 9,500.0             | 90.00           | 5.08        | 7,378.0             | 1,850.7    | -542.7     | 1,850.7               | 2.00                  | 0.00                 |                       |
| 9,503.1             | 90.00           | 5.14        | 7,378.0             | 1,853.9    | -542.4     | 1,853.9               | 2.00                  | 0.00                 | EOT; 5.14° Az         |
| 9,600.0             | 90.00           | 5.14        | 7,378.0             | 1,950.3    | -533.7     | 1,950.3               | 0.00                  | 0.00                 |                       |
| 9,700.0             | 90.00           | 5.14        | 7,378.0             | 2,049.9    | -524.7     | 2,049.9               | 0.00                  | 0.00                 |                       |
| 9,800.0             | 90.00           | 5.14        | 7,378.0             | 2,149.5    | -515.8     | 2,149.5               | 0.00                  | 0.00                 |                       |
| 9,900.0             | 90.00           | 5.14        | 7,378.0             | 2,249.1    | -506.8     | 2,249.1               | 0.00                  | 0.00                 |                       |
| 10,000.0            | 90.00           | 5.14        | 7,378.0             | 2,348.7    | -497.9     | 2,348.7               | 0.00                  | 0.00                 |                       |
| 10,100.0            | 90.00           | 5.14        | 7,378.0             | 2,448.3    | -488.9     | 2,448.3               | 0.00                  | 0.00                 |                       |
| 10,200.0            | 90.00           | 5.14        | 7,378.0             | 2,547.9    | -480.0     | 2,547.9               | 0.00                  | 0.00                 |                       |
| 10,300.0            | 90.00           | 5.14        | 7,378.0             | 2,647.5    | -471.0     | 2,647.5               | 0.00                  | 0.00                 |                       |
| 10,400.0            | 90.00           | 5.14        | 7,378.0             | 2,747.1    | -462.1     | 2,747.1               | 0.00                  | 0.00                 |                       |
| 10,500.0            | 90.00           | 5.14        | 7,378.0             | 2,846.7    | -453.1     | 2,846.7               | 0.00                  | 0.00                 |                       |
| 10,600.0            | 90.00           | 5.14        | 7,378.0             | 2,946.3    | -444.1     | 2,946.3               | 0.00                  | 0.00                 |                       |
| 10,700.0            | 90.00           | 5.14        | 7,378.0             | 3,045.9    | -435.2     | 3,045.9               | 0.00                  | 0.00                 |                       |
| 10,761.7            | 90.00           | 5.14        | 7,378.0             | 3,107.3    | -429.7     | 3,107.3               | 0.00                  | 0.00                 | PBHL @ 10761' MD      |

| Targets   |               |              |          |            |            |               |              |           |             |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| Target Name   | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude  | Longitude   |
| - hit/miss target   |               |              |          |            |            |               |              |           |             |
| - Shape   |               |              |          |            |            |               |              |           |             |
| File 3L-32H-K268 PBHL   | 0.00          | 0.00         | 7,378.0  | 3,107.3    | -429.7     | 1,280,026.24  | 3,130,817.97 | 40.101110 | -105.032376 |
| - plan hits target center   |               |              |          |            |            |               |              |           |             |
| - Point   |               |              |          |            |            |               |              |           |             |
| File 3L-32H-K268 PBHL   | 0.00          | 0.00         | 7,378.0  | 3,107.3    | -584.7     | 1,280,025.42  | 3,130,662.99 | 40.101110 | -105.032930 |
| - plan misses target center by 154.4ft at 10747.8ft MD (7378.0 TVD, 3093.5 N, -430.9 E) |               |              |          |            |            |               |              |           |             |
| - Point   |               |              |          |            |            |               |              |           |             |

| Formations          |                     |                             |           |         |                   |  |
|---------------------|---------------------|-----------------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name                        | Lithology | Dip (°) | Dip Direction (°) |  |
| 271.0               | 271.0               | Fox Hills - BASE            |           |         |                   |  |
| 4,349.8             | 4,327.0             | Sussex                      |           |         |                   |  |
| 4,632.7             | 4,608.0             | Sussex Marker               |           |         |                   |  |
| 4,926.6             | 4,900.0             | Shannon                     |           |         |                   |  |
| 6,839.2             | 6,800.0             | Teepee Buttes (*if present) |           |         |                   |  |
| 7,290.9             | 7,207.0             | Sharon Springs              |           |         |                   |  |
| 7,461.6             | 7,309.0             | Niobrara                    |           |         |                   |  |
| 7,638.8             | 7,368.0             | B Chalk                     |           |         |                   |  |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |                                      |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc  | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Project:</b>  | DJ Wattenberg               | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site:</b>     | S32-T2N-R68W (File/Hwy 52)  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | File 3L-32H-K268            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Hz                          |                                     |                                      |
| <b>Design:</b>   | Plan #3                     |                                     |                                      |

### Plan Annotations

| Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |               | Comment             |
|---------------------------|---------------------------|-------------------|---------------|---------------------|
|                           |                           | +N/-S<br>(ft)     | +E/-W<br>(ft) |                     |
| 450.0                     | 450.0                     | 0.0               | 0.0           | KOP @ 450' MD       |
| 1,108.4                   | 1,106.9                   | -25.9             | -27.5         | EOB; 6.58°          |
| 6,801.1                   | 6,762.1                   | -473.9            | -502.2        | Start 10° Build     |
| 7,746.2                   | 7,378.0                   | 97.3              | -553.9        | LP @ 7378' TVD; 90° |
| 9,246.2                   | 7,378.0                   | 1,597.3           | -553.9        | Start 2° Turn       |
| 9,503.1                   | 7,378.0                   | 1,853.9           | -542.4        | EOT; 5.14° Az       |
| 10,761.7                  | 7,378.0                   | 3,107.3           | -429.7        | PBHL @ 10761' MD    |

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

**DJ Wattenberg**

**S32-T2N-R68W (File/Hwy 52)**

**File 3L-32H-K268**

**Hz**

**Plan #3**

## **Anticollision Report**

**16 December, 2013**

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Reference                    | Plan #3   |                |                     |
|------------------------------|---|----------------|---------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | Stations  | Error Model:   | Systematic Ellipse  |
| Depth Range:                 | Unlimited   | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum center-center distance of 1,356.1ft                         | Error Surface: | Elliptical Conic    |
| Warning Levels Evaluated at: | 2.00 Sigma  |                |                     |

|                            |                |                          |                  |                    |
|----------------------------|----------------|--------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 12/12/2013               |                  |                    |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |
| 0.0                        | 10,761.6       | Plan #3 (Hz)             | Geolink MWD      | Geolink MWD        |



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

### Summary

| Site Name<br>Offset Well - Wellbore - Design    | Reference<br>Measured<br>Depth | Offset<br>Measured<br>Depth | Distance                   |                             | Separation<br>Factor | Warning      |
|---|--------------------------------|-----------------------------|----------------------------|-----------------------------|----------------------|--------------|
|   | (ft)                           | (ft)                        | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                      |              |
| S32-T2N-R68W (File/Hwy 52)                      |                                |                             |                            |                             |                      |              |
| ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S  | 10,761.7                       | 7,344.0                     | 723.0                      | 653.2                       | 10.363               | CC, ES, SF   |
| ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV  |                                |                             |                            |                             |                      | Out of range |
| ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -   | 10,761.7                       | 7,344.0                     | 731.3                      | 661.6                       | 10.483               | CC, ES, SF   |
| ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -   |                                |                             |                            |                             |                      | Out of range |
| ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W   | 10,222.0                       | 6,773.0                     | 246.5                      | 186.9                       | 4.137                | CC, ES, SF   |
| FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N | 10,517.7                       | 7,281.0                     | 565.4                      | 499.9                       | 8.633                | CC, ES       |
| FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N | 10,600.0                       | 7,281.0                     | 571.3                      | 504.4                       | 8.541                | SF           |
| File 3A-32H-K268 - Hz - Plan #4                 | 200.0                          | 199.0                       | 84.0                       | 83.4                        | 129.048              | CC, ES       |
| File 3A-32H-K268 - Hz - Plan #4                 | 1,500.0                        | 1,471.0                     | 166.2                      | 160.7                       | 29.900               | SF           |
| File 3B-32H-K268 - Hz - Plan #2                 | 300.0                          | 299.0                       | 81.1                       | 80.1                        | 81.128               | CC, ES       |
| File 3B-32H-K268 - Hz - Plan #2                 | 1,400.0                        | 1,376.4                     | 144.4                      | 139.3                       | 27.924               | SF           |
| File 3C-32H-K268 - Hz - Plan #3                 | 400.0                          | 399.0                       | 75.6                       | 74.3                        | 56.056               | CC, ES       |
| File 3C-32H-K268 - Hz - Plan #3                 | 6,850.0                        | 6,807.1                     | 637.6                      | 605.7                       | 19.988               | SF           |
| File 3D-32H-K268 - Hz - Plan #2                 | 631.9                          | 629.3                       | 69.3                       | 67.2                        | 32.144               | CC           |
| File 3D-32H-K268 - Hz - Plan #2                 | 700.0                          | 696.6                       | 69.5                       | 67.1                        | 29.006               | ES           |
| File 3D-32H-K268 - Hz - Plan #2                 | 7,667.3                        | 7,406.2                     | 251.8                      | 225.5                       | 9.568                | SF           |
| File 3E-32H-K268 - Hz - Plan #2                 | 854.9                          | 852.5                       | 51.4                       | 48.5                        | 17.405               | CC           |
| File 3E-32H-K268 - Hz - Plan #2                 | 900.0                          | 897.1                       | 51.6                       | 48.5                        | 16.528               | ES           |
| File 3E-32H-K268 - Hz - Plan #2                 | 7,439.2                        | 7,431.5                     | 184.2                      | 157.4                       | 6.882                | SF           |
| File 3F-32H-K268 - Hz - Plan #2                 | 1,098.2                        | 1,096.8                     | 34.6                       | 30.6                        | 8.805                | CC           |
| File 3F-32H-K268 - Hz - Plan #2                 | 1,108.4                        | 1,106.9                     | 34.6                       | 30.6                        | 8.718                | ES           |
| File 3F-32H-K268 - Hz - Plan #2                 | 1,200.0                        | 1,197.9                     | 36.5                       | 32.1                        | 8.436                | SF           |
| File 3G-32H-K268 - Hz - Plan #3                 | 998.2                          | 998.1                       | 17.7                       | 14.1                        | 4.987                | CC           |
| File 3G-32H-K268 - Hz - Plan #3                 | 1,000.0                        | 999.9                       | 17.7                       | 14.1                        | 4.978                | ES, SF       |
| File 3H-32H-K268 - Hz - Plan #2                 | 866.6                          | 867.3                       | 13.2                       | 10.1                        | 4.278                | CC, ES, SF   |
| File 3I-32H-K268 - Hz - Plan #3                 | 200.0                          | 200.0                       | 14.5                       | 13.8                        | 22.147               | CC, ES       |
| File 3I-32H-K268 - Hz - Plan #3                 | 10,761.7                       | 11,184.5                    | 1,227.2                    | 1,117.5                     | 11.186               | SF           |
| File 3J-32H-K268 - Hz - Plan #2                 | 233.5                          | 233.5                       | 11.2                       | 10.4                        | 14.542               | CC           |
| File 3J-32H-K268 - Hz - Plan #2                 | 300.0                          | 299.9                       | 11.4                       | 10.4                        | 11.368               | ES           |
| File 3J-32H-K268 - Hz - Plan #2                 | 10,761.7                       | 10,958.0                    | 854.3                      | 741.6                       | 7.580                | SF           |
| File 3K-32H-K268 - Hz - Plan #2                 | 333.3                          | 333.3                       | 6.7                        | 5.6                         | 5.971                | CC           |
| File 3K-32H-K268 - Hz - Plan #2                 | 400.0                          | 399.9                       | 6.9                        | 5.5                         | 5.104                | ES           |
| File 3K-32H-K268 - Hz - Plan #2                 | 450.0                          | 449.9                       | 7.5                        | 6.0                         | 4.947                | SF           |
| File 3M-32H-K268 - Hz - Plan #3                 | 274.9                          | 274.9                       | 14.4                       | 13.5                        | 15.782               | CC           |
| File 3M-32H-K268 - Hz - Plan #3                 | 300.0                          | 300.0                       | 14.4                       | 13.4                        | 14.405               | ES           |
| File 3M-32H-K268 - Hz - Plan #3                 | 10,761.7                       | 11,034.0                    | 297.3                      | 220.4                       | 3.863                | SF           |
| File 3N-32H-K268 - Hz - Plan #2                 | 300.0                          | 300.0                       | 19.6                       | 18.6                        | 19.549               | CC           |
| File 3N-32H-K268 - Hz - Plan #2                 | 400.0                          | 399.9                       | 19.7                       | 18.4                        | 14.604               | ES           |
| File 3N-32H-K268 - Hz - Plan #2                 | 10,761.7                       | 10,835.7                    | 544.4                      | 429.8                       | 4.750                | SF           |
| File 3O-32H-K268 - Hz - Plan #2                 | 233.5                          | 233.5                       | 25.4                       | 24.7                        | 33.050               | CC           |
| File 3O-32H-K268 - Hz - Plan #2                 | 300.0                          | 299.8                       | 25.6                       | 24.6                        | 25.556               | ES           |
| File 3O-32H-K268 - Hz - Plan #2                 | 10,761.7                       | 11,077.5                    | 922.7                      | 810.7                       | 8.240                | SF           |
| File 3P-32H-K268 - Hz - Plan #2                 | 200.0                          | 200.0                       | 30.8                       | 30.1                        | 47.147               | CC, ES       |
| File 3P-32H-K268 - Hz - Plan #2                 | 10,761.7                       | 10,877.1                    | 1,243.8                    | 1,128.2                     | 10.766               | SF           |
| NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR |                                |                             |                            |                             |                      | Out of range |
| NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV  | 4,962.5                        | 4,876.0                     | 725.2                      | 705.0                       | 35.927               | CC, ES       |
| NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV  | 5,000.0                        | 4,876.0                     | 726.2                      | 705.9                       | 35.806               | SF           |
| NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV  | 5,026.7                        | 5,027.4                     | 971.9                      | 950.8                       | 46.144               | CC, ES       |
| NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV  | 5,200.0                        | 5,050.0                     | 983.5                      | 962.0                       | 45.615               | SF           |
| NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV  | 450.0                          | 449.0                       | 331.5                      | 330.0                       | 214.636              | CC, ES       |
| NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV  | 5,000.0                        | 4,971.9                     | 812.5                      | 795.1                       | 46.819               | SF           |
| NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE   | 5,141.9                        | 5,000.0                     | 968.4                      | 950.8                       | 54.817               | CC, ES       |
| NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE   | 5,200.0                        | 5,000.0                     | 970.2                      | 952.4                       | 54.600               | SF           |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

### Summary

| Site Name<br>Offset Well - Wellbore - Design    | Reference<br>Measured<br>Depth | Offset<br>Measured<br>Depth | Distance                   |                             | Separation<br>Factor | Warning      |
|---|--------------------------------|-----------------------------|----------------------------|-----------------------------|----------------------|--------------|
|   | (ft)                           | (ft)                        | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                      |              |
| S32-T2N-R68W (File/Hwy 52)                      |                                |                             |                            |                             |                      |              |
| NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU | 5,170.2                        | 5,035.0                     | 757.2                      | 739.2                       | 42.193               | CC, ES       |
| NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU | 5,200.0                        | 5,035.0                     | 757.8                      | 739.8                       | 42.101               | SF           |
| NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE   |                                |                             |                            |                             |                      | Out of range |
| NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S | 6,873.5                        | 6,823.2                     | 78.8                       | 54.4                        | 3.229                | CC, ES, SF   |
| RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO | 8,759.4                        | 7,452.3                     | 1,091.9                    | 1,050.6                     | 26.444               | CC, ES       |
| RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO | 9,246.2                        | 7,454.4                     | 1,195.5                    | 1,146.7                     | 24.473               | SF           |
| RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO  | 9,321.4                        | 7,292.0                     | 441.2                      | 395.0                       | 9.541                | CC, ES       |
| RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO  | 9,400.0                        | 7,292.0                     | 449.2                      | 402.0                       | 9.508                | SF           |
| RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU  | 8,030.0                        | 7,531.6                     | 652.7                      | 613.0                       | 16.433               | CC, ES       |
| RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU  | 8,100.0                        | 7,532.4                     | 656.5                      | 616.1                       | 16.250               | SF           |
| RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU  | 196.9                          | 207.0                       | 994.2                      | 993.5                       | 1,511.210            | CC           |
| RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU  | 6,902.5                        | 6,940.2                     | 1,015.6                    | 991.3                       | 41.825               | ES, SF       |
| RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO  | 450.0                          | 353.0                       | 452.6                      | 451.2                       | 328.189              | CC, ES       |
| RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO  | 8,300.0                        | 7,281.0                     | 1,098.3                    | 1,067.0                     | 35.045               | SF           |
| RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU  | 3,128.8                        | 3,093.8                     | 812.8                      | 798.3                       | 56.072               | CC           |
| RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU  | 3,200.0                        | 3,161.7                     | 813.2                      | 798.3                       | 54.576               | ES           |
| RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU  | 6,850.0                        | 6,925.4                     | 1,036.8                    | 1,006.8                     | 34.477               | SF           |
| RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO | 8,659.2                        | 7,432.0                     | 249.5                      | 208.5                       | 6.094                | CC, ES       |
| RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO | 8,700.0                        | 7,432.0                     | 252.8                      | 211.3                       | 6.087                | SF           |
| RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU | 123.0                          | 126.0                       | 456.7                      | 456.3                       | 1,182.083            | CC, ES       |
| RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU | 4,200.0                        | 4,018.1                     | 1,331.5                    | 1,317.0                     | 91.968               | SF           |
| RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU | 192.8                          | 195.9                       | 456.4                      | 455.8                       | 725.886              | CC           |
| RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU | 200.0                          | 202.4                       | 456.4                      | 455.8                       | 699.075              | ES           |
| RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU | 6,300.0                        | 6,266.6                     | 1,348.1                    | 1,319.6                     | 47.186               | SF           |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|
| Survey Program: 8115-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |
| 9,700.0   | 7,378.0             | 7,344.0             | 7,344.0             | 41.0            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 1,289.8              | 1,237.9               | 51.87                  | 24.867            |                           |
| 9,800.0   | 7,378.0             | 7,344.0             | 7,344.0             | 42.5            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 1,208.3              | 1,154.7               | 53.52                  | 22.576            |                           |
| 9,900.0   | 7,378.0             | 7,344.0             | 7,344.0             | 44.1            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 1,129.7              | 1,074.5               | 55.18                  | 20.472            |                           |
| 10,000.0  | 7,378.0             | 7,344.0             | 7,344.0             | 45.7            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 1,054.8              | 998.0                 | 56.86                  | 18.553            |                           |
| 10,100.0  | 7,378.0             | 7,344.0             | 7,344.0             | 47.4            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 984.4                | 925.8                 | 58.53                  | 16.818            |                           |
| 10,200.0  | 7,378.0             | 7,344.0             | 7,344.0             | 49.0            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 919.4                | 859.2                 | 60.22                  | 15.269            |                           |
| 10,300.0  | 7,378.0             | 7,344.0             | 7,344.0             | 50.6            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 861.3                | 799.3                 | 61.91                  | 13.912            |                           |
| 10,400.0  | 7,378.0             | 7,344.0             | 7,344.0             | 52.3            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 811.3                | 747.7                 | 63.60                  | 12.756            |                           |
| 10,500.0  | 7,378.0             | 7,344.0             | 7,344.0             | 53.9            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 771.0                | 705.7                 | 65.30                  | 11.808            |                           |
| 10,600.0  | 7,378.0             | 7,344.0             | 7,344.0             | 55.6            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 742.2                | 675.2                 | 67.00                  | 11.078            |                           |
| 10,700.0  | 7,378.0             | 7,344.0             | 7,344.0             | 57.2            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 726.1                | 657.4                 | 68.71                  | 10.568            |                           |
| 10,761.7  | 7,378.0             | 7,344.0             | 7,344.0             | 58.3            | 12.8        | 90.00                 | 3,049.0                           | 290.9      | 723.0                | 653.2                 | 69.76                  | 10.363 CC, ES, SF |                           |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 8344-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning            |        |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |        |
| 9,700.0   | 7,378.0             | 7,344.0             | 7,344.0             | 41.0            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 1,295.1              | 1,243.2               | 51.87                  | 24.970            |                    |        |
| 9,800.0   | 7,378.0             | 7,344.0             | 7,344.0             | 42.5            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 1,213.9              | 1,160.4               | 53.52                  | 22.681            |                    |        |
| 9,900.0   | 7,378.0             | 7,344.0             | 7,344.0             | 44.1            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 1,135.7              | 1,080.5               | 55.18                  | 20.579            |                    |        |
| 10,000.0  | 7,378.0             | 7,344.0             | 7,344.0             | 45.7            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 1,061.1              | 1,004.2               | 56.86                  | 18.663            |                    |        |
| 10,100.0  | 7,378.0             | 7,344.0             | 7,344.0             | 47.4            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 991.0                | 932.5                 | 58.53                  | 16.931            |                    |        |
| 10,200.0  | 7,378.0             | 7,344.0             | 7,344.0             | 49.0            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 926.5                | 866.3                 | 60.22                  | 15.386            |                    |        |
| 10,300.0  | 7,378.0             | 7,344.0             | 7,344.0             | 50.6            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 868.7                | 806.8                 | 61.91                  | 14.032            |                    |        |
| 10,400.0  | 7,378.0             | 7,344.0             | 7,344.0             | 52.3            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 819.0                | 755.4                 | 63.60                  | 12.878            |                    |        |
| 10,500.0  | 7,378.0             | 7,344.0             | 7,344.0             | 53.9            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 779.1                | 713.8                 | 65.30                  | 11.932            |                    |        |
| 10,600.0  | 7,378.0             | 7,344.0             | 7,344.0             | 55.6            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 750.5                | 683.5                 | 67.00                  | 11.202            |                    |        |
| 10,700.0  | 7,378.0             | 7,344.0             | 7,344.0             | 57.2            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 734.5                | 665.8                 | 68.71                  | 10.691            |                    |        |
| 10,761.7  | 7,378.0             | 7,344.0             | 7,344.0             | 58.3            | 12.8        | 90.00                 | 3,049.0                           | 299.3      | 731.3                | 661.6                 | 69.76                  | 10.483 CC, ES, SF |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA WELL - NO SUR |                |                |                |                 |        |                   |                        |            |                 |                  |                        |                   | Offset Site Error: 0.0 ft |         |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 8123-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  | 7,378.0        | 6,773.0        | 6,773.0        | 28.8            | 11.8   | 90.00             | 2,547.8                | -232.5     | 1,335.9         | 1,297.0          | 38.92                  | 34.323            |                           |         |
| 9,000.0  | 7,378.0        | 6,773.0        | 6,773.0        | 30.3            | 11.8   | 90.00             | 2,547.8                | -232.5     | 1,239.1         | 1,198.6          | 40.47                  | 30.620            |                           |         |
| 9,100.0  | 7,378.0        | 6,773.0        | 6,773.0        | 31.7            | 11.8   | 90.00             | 2,547.8                | -232.5     | 1,142.8         | 1,100.8          | 42.03                  | 27.188            |                           |         |
| 9,200.0  | 7,378.0        | 6,773.0        | 6,773.0        | 33.3            | 11.8   | 90.00             | 2,547.8                | -232.5     | 1,047.2         | 1,003.6          | 43.62                  | 24.008            |                           |         |
| 9,246.2  | 7,378.0        | 6,773.0        | 6,773.0        | 34.0            | 11.8   | 90.00             | 2,547.8                | -232.5     | 1,003.3         | 959.0            | 44.36                  | 22.618            |                           |         |
| 9,300.0  | 7,378.0        | 6,773.0        | 6,773.0        | 34.8            | 11.8   | 90.00             | 2,547.8                | -232.5     | 952.4           | 907.3            | 45.06                  | 21.136            |                           |         |
| 9,400.0  | 7,378.0        | 6,773.0        | 6,773.0        | 36.3            | 11.8   | 90.00             | 2,547.8                | -232.5     | 857.6           | 811.3            | 46.34                  | 18.506            |                           |         |
| 9,503.1  | 7,378.0        | 6,773.0        | 6,773.0        | 37.9            | 11.8   | 90.00             | 2,547.8                | -232.5     | 760.0           | 712.3            | 47.64                  | 15.952            |                           |         |
| 9,600.0  | 7,378.0        | 6,773.0        | 6,773.0        | 39.4            | 11.8   | 90.00             | 2,547.8                | -232.5     | 669.1           | 619.9            | 49.22                  | 13.593            |                           |         |
| 9,700.0  | 7,378.0        | 6,773.0        | 6,773.0        | 41.0            | 11.8   | 90.00             | 2,547.8                | -232.5     | 577.3           | 526.4            | 50.87                  | 11.349            |                           |         |
| 9,800.0  | 7,378.0        | 6,773.0        | 6,773.0        | 42.5            | 11.8   | 90.00             | 2,547.8                | -232.5     | 488.7           | 436.2            | 52.52                  | 9.305             |                           |         |
| 9,900.0  | 7,378.0        | 6,773.0        | 6,773.0        | 44.1            | 11.8   | 90.00             | 2,547.8                | -232.5     | 405.5           | 351.4            | 54.19                  | 7.484             |                           |         |
| 10,000.0   | 7,378.0        | 6,773.0        | 6,773.0        | 45.7            | 11.8   | 90.00             | 2,547.8                | -232.5     | 331.8           | 275.9            | 55.86                  | 5.939             |                           |         |
| 10,100.0   | 7,378.0        | 6,773.0        | 6,773.0        | 47.4            | 11.8   | 90.00             | 2,547.8                | -232.5     | 275.1           | 217.5            | 57.54                  | 4.781             |                           |         |
| 10,200.0   | 7,378.0        | 6,773.0        | 6,773.0        | 49.0            | 11.8   | 90.00             | 2,547.8                | -232.5     | 247.5           | 188.3            | 59.22                  | 4.179             |                           |         |
| 10,222.0   | 7,378.0        | 6,773.0        | 6,773.0        | 49.3            | 11.8   | 90.00             | 2,547.8                | -232.5     | 246.5           | 186.9            | 59.59                  | 4.137 CC, ES, SF  |                           |         |
| 10,300.0   | 7,378.0        | 6,773.0        | 6,773.0        | 50.6            | 11.8   | 90.00             | 2,547.8                | -232.5     | 258.6           | 197.7            | 60.91                  | 4.245             |                           |         |
| 10,400.0   | 7,378.0        | 6,773.0        | 6,773.0        | 52.3            | 11.8   | 90.00             | 2,547.8                | -232.5     | 304.1           | 241.5            | 62.60                  | 4.857             |                           |         |
| 10,500.0   | 7,378.0        | 6,773.0        | 6,773.0        | 53.9            | 11.8   | 90.00             | 2,547.8                | -232.5     | 371.5           | 307.2            | 64.30                  | 5.778             |                           |         |
| 10,600.0   | 7,378.0        | 6,773.0        | 6,773.0        | 55.6            | 11.8   | 90.00             | 2,547.8                | -232.5     | 451.3           | 385.3            | 66.00                  | 6.837             |                           |         |
| 10,700.0   | 7,378.0        | 6,773.0        | 6,773.0        | 57.2            | 11.8   | 90.00             | 2,547.8                | -232.5     | 537.8           | 470.1            | 67.71                  | 7.943             |                           |         |
| 10,761.7   | 7,378.0        | 6,773.0        | 6,773.0        | 58.3            | 11.8   | 90.00             | 2,547.8                | -232.5     | 593.3           | 524.5            | 68.76                  | 8.628             |                           |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - NO SURVEYS |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 8107-Geolink MWD  |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference   |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                              |                      | Warning            |        |
| Measured Depth<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 |                    |        |
| 9,300.0   | 7,378.0                | 7,281.0                | 7,281.0                | 34.8              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 1,345.5                    | 1,299.5                     | 45.95                        | 29.283               |                    |        |
| 9,400.0   | 7,378.0                | 7,281.0                | 7,281.0                | 36.3              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 1,253.4                    | 1,206.2                     | 47.23                        | 26.538               |                    |        |
| 9,503.1   | 7,378.0                | 7,281.0                | 7,281.0                | 37.9              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 1,161.5                    | 1,112.9                     | 48.53                        | 23.934               |                    |        |
| 9,600.0   | 7,378.0                | 7,281.0                | 7,281.0                | 39.4              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 1,077.9                    | 1,027.8                     | 50.11                        | 21.510               |                    |        |
| 9,700.0   | 7,378.0                | 7,281.0                | 7,281.0                | 41.0              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 994.1                      | 942.4                       | 51.76                        | 19.208               |                    |        |
| 9,800.0   | 7,378.0                | 7,281.0                | 7,281.0                | 42.5              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 913.6                      | 860.2                       | 53.41                        | 17.106               |                    |        |
| 9,900.0   | 7,378.0                | 7,281.0                | 7,281.0                | 44.1              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 837.4                      | 782.3                       | 55.07                        | 15.205               |                    |        |
| 10,000.0  | 7,378.0                | 7,281.0                | 7,281.0                | 45.7              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 766.6                      | 709.9                       | 56.75                        | 13.509               |                    |        |
| 10,100.0  | 7,378.0                | 7,281.0                | 7,281.0                | 47.4              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 702.9                      | 644.5                       | 58.42                        | 12.032               |                    |        |
| 10,200.0  | 7,378.0                | 7,281.0                | 7,281.0                | 49.0              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 648.5                      | 588.4                       | 60.11                        | 10.790               |                    |        |
| 10,300.0  | 7,378.0                | 7,281.0                | 7,281.0                | 50.6              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 605.8                      | 544.0                       | 61.80                        | 9.804                |                    |        |
| 10,400.0  | 7,378.0                | 7,281.0                | 7,281.0                | 52.3              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 577.5                      | 514.0                       | 63.49                        | 9.096                |                    |        |
| 10,500.0  | 7,378.0                | 7,281.0                | 7,281.0                | 53.9              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 565.7                      | 500.5                       | 65.19                        | 8.677                |                    |        |
| 10,517.7  | 7,378.0                | 7,281.0                | 7,281.0                | 54.2              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 565.4                      | 499.9                       | 65.49                        | 8.633 CC, ES         |                    |        |
| 10,600.0  | 7,378.0                | 7,281.0                | 7,281.0                | 55.6              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 571.3                      | 504.4                       | 66.89                        | 8.541 SF             |                    |        |
| 10,700.0  | 7,378.0                | 7,281.0                | 7,281.0                | 57.2              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 594.0                      | 525.4                       | 68.60                        | 8.660                |                    |        |
| 10,761.7  | 7,378.0                | 7,281.0                | 7,281.0                | 58.3              | 12.7           | -90.00                      | 2,915.0                                 | -1,014.6      | 615.8                      | 546.1                       | 69.65                        | 8.841                |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3A-32H-K268 - Hz - Plan #4 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | 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         | -92.49                | -3.6                              | -83.9      | 84.0                 |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 99.0                | 99.0                | 0.2             | 0.2         | -92.49                | -3.6                              | -83.9      | 84.0                 | 83.7                  | 0.30                   | 278.027           |                           |         |
| 200.0  | 200.0               | 199.0               | 199.0               | 0.3             | 0.3         | -92.49                | -3.6                              | -83.9      | 84.0                 | 83.4                  | 0.65                   | 129.048           | CC, ES                    |         |
| 300.0  | 300.0               | 297.6               | 297.6               | 0.5             | 0.5         | -92.58                | -3.8                              | -84.7      | 84.8                 | 83.8                  | 1.00                   | 85.018            |                           |         |
| 400.0  | 400.0               | 396.1               | 396.1               | 0.7             | 0.7         | -92.86                | -4.4                              | -87.2      | 87.4                 | 86.0                  | 1.35                   | 64.898            |                           |         |
| 450.0  | 450.0               | 445.3               | 445.2               | 0.8             | 0.8         | -93.06                | -4.8                              | -89.1      | 89.3                 | 87.7                  | 1.52                   | 58.658            |                           |         |
| 500.0  | 500.0               | 494.5               | 494.4               | 0.9             | 0.9         | 40.12                 | -5.3                              | -91.3      | 91.4                 | 89.7                  | 1.69                   | 54.072            |                           |         |
| 600.0  | 600.0               | 592.8               | 592.5               | 1.0             | 1.1         | 40.19                 | -6.5                              | -97.1      | 96.0                 | 94.0                  | 2.04                   | 47.108            |                           |         |
| 700.0  | 699.9               | 691.0               | 690.4               | 1.2             | 1.3         | 40.73                 | -8.1                              | -104.5     | 101.0                | 98.6                  | 2.39                   | 42.286            |                           |         |
| 800.0  | 799.8               | 789.1               | 788.1               | 1.4             | 1.5         | 41.66                 | -10.1                             | -113.5     | 106.3                | 103.6                 | 2.74                   | 38.772            |                           |         |
| 900.0  | 899.5               | 887.1               | 885.4               | 1.6             | 1.7         | 42.92                 | -12.4                             | -124.1     | 112.1                | 109.0                 | 3.10                   | 36.107            |                           |         |
| 1,000.0  | 999.2               | 984.9               | 982.5               | 1.8             | 2.0         | 44.43                 | -15.1                             | -136.4     | 118.3                | 114.8                 | 3.48                   | 34.014            |                           |         |
| 1,108.4  | 1,106.9             | 1,090.8             | 1,087.2             | 2.1             | 2.3         | 46.30                 | -18.4                             | -151.4     | 125.6                | 121.7                 | 3.90                   | 32.183            |                           |         |
| 1,200.0  | 1,197.9             | 1,180.1             | 1,175.3             | 2.3             | 2.6         | 47.84                 | -21.5                             | -165.6     | 132.8                | 128.5                 | 4.28                   | 31.050            |                           |         |
| 1,300.0  | 1,297.3             | 1,277.4             | 1,271.1             | 2.5             | 2.9         | 49.13                 | -25.2                             | -182.6     | 142.3                | 137.6                 | 4.70                   | 30.301            |                           |         |
| 1,400.0  | 1,396.6             | 1,374.4             | 1,366.2             | 2.8             | 3.3         | 50.05                 | -29.2                             | -201.1     | 153.5                | 148.3                 | 5.12                   | 29.945            |                           |         |
| 1,500.0  | 1,496.0             | 1,471.0             | 1,460.6             | 3.0             | 3.7         | 50.65                 | -33.5                             | -221.1     | 166.2                | 160.7                 | 5.56                   | 29.900            | SF                        |         |
| 1,600.0  | 1,595.3             | 1,567.2             | 1,554.3             | 3.3             | 4.1         | 50.98                 | -38.2                             | -242.6     | 180.6                | 174.6                 | 6.00                   | 30.104            |                           |         |
| 1,700.0  | 1,694.7             | 1,663.0             | 1,647.2             | 3.5             | 4.5         | 51.09                 | -43.2                             | -265.4     | 196.5                | 190.0                 | 6.44                   | 30.511            |                           |         |
| 1,800.0  | 1,794.0             | 1,760.4             | 1,741.3             | 3.8             | 5.0         | 51.07                 | -48.6                             | -289.9     | 213.6                | 206.7                 | 6.88                   | 31.027            |                           |         |
| 1,900.0  | 1,893.3             | 1,858.9             | 1,836.5             | 4.0             | 5.5         | 51.04                 | -54.0                             | -314.8     | 230.8                | 223.5                 | 7.33                   | 31.476            |                           |         |
| 2,000.0  | 1,992.7             | 1,957.4             | 1,931.6             | 4.3             | 5.9         | 51.01                 | -59.4                             | -339.7     | 248.0                | 240.2                 | 7.78                   | 31.865            |                           |         |
| 2,100.0  | 2,092.0             | 2,055.9             | 2,026.8             | 4.6             | 6.4         | 50.99                 | -64.8                             | -364.5     | 265.3                | 257.0                 | 8.24                   | 32.206            |                           |         |
| 2,200.0  | 2,191.4             | 2,154.4             | 2,121.9             | 4.8             | 6.9         | 50.97                 | -70.2                             | -389.4     | 282.5                | 273.8                 | 8.69                   | 32.506            |                           |         |
| 2,300.0  | 2,290.7             | 2,252.9             | 2,217.1             | 5.1             | 7.4         | 50.96                 | -75.7                             | -414.3     | 299.7                | 290.6                 | 9.15                   | 32.772            |                           |         |
| 2,400.0  | 2,390.0             | 2,351.5             | 2,312.3             | 5.3             | 7.9         | 50.94                 | -81.1                             | -439.1     | 316.9                | 307.3                 | 9.60                   | 33.010            |                           |         |
| 2,500.0  | 2,489.4             | 2,450.0             | 2,407.4             | 5.6             | 8.3         | 50.93                 | -86.5                             | -464.0     | 334.1                | 324.1                 | 10.06                  | 33.223            |                           |         |
| 2,600.0  | 2,588.7             | 2,548.5             | 2,502.6             | 5.9             | 8.8         | 50.91                 | -91.9                             | -488.9     | 351.4                | 340.9                 | 10.52                  | 33.416            |                           |         |
| 2,700.0  | 2,688.1             | 2,647.0             | 2,597.7             | 6.1             | 9.3         | 50.90                 | -97.3                             | -513.7     | 368.6                | 357.6                 | 10.97                  | 33.591            |                           |         |
| 2,800.0  | 2,787.4             | 2,745.5             | 2,692.9             | 6.4             | 9.8         | 50.89                 | -102.8                            | -538.6     | 385.8                | 374.4                 | 11.43                  | 33.750            |                           |         |
| 2,900.0  | 2,886.7             | 2,844.0             | 2,788.1             | 6.7             | 10.3        | 50.88                 | -108.2                            | -563.5     | 403.0                | 391.2                 | 11.89                  | 33.895            |                           |         |
| 3,000.0  | 2,986.1             | 2,942.5             | 2,883.2             | 6.9             | 10.8        | 50.87                 | -113.6                            | -588.3     | 420.3                | 407.9                 | 12.35                  | 34.029            |                           |         |
| 3,100.0  | 3,085.4             | 3,041.0             | 2,978.4             | 7.2             | 11.2        | 50.87                 | -119.0                            | -613.2     | 437.5                | 424.7                 | 12.81                  | 34.151            |                           |         |
| 3,200.0  | 3,184.8             | 3,139.5             | 3,073.5             | 7.5             | 11.7        | 50.86                 | -124.5                            | -638.1     | 454.7                | 441.4                 | 13.27                  | 34.265            |                           |         |
| 3,300.0  | 3,284.1             | 3,238.0             | 3,168.7             | 7.7             | 12.2        | 50.85                 | -129.9                            | -662.9     | 471.9                | 458.2                 | 13.73                  | 34.370            |                           |         |
| 3,400.0  | 3,383.4             | 3,336.5             | 3,263.9             | 8.0             | 12.7        | 50.85                 | -135.3                            | -687.8     | 489.2                | 475.0                 | 14.19                  | 34.468            |                           |         |
| 3,500.0  | 3,482.8             | 3,435.0             | 3,359.0             | 8.2             | 13.2        | 50.84                 | -140.7                            | -712.7     | 506.4                | 491.7                 | 14.65                  | 34.558            |                           |         |
| 3,600.0  | 3,582.1             | 3,533.5             | 3,454.2             | 8.5             | 13.7        | 50.83                 | -146.1                            | -737.5     | 523.6                | 508.5                 | 15.11                  | 34.643            |                           |         |
| 3,700.0  | 3,681.5             | 3,632.0             | 3,549.3             | 8.8             | 14.2        | 50.83                 | -151.6                            | -762.4     | 540.8                | 525.3                 | 15.58                  | 34.723            |                           |         |
| 3,800.0  | 3,780.8             | 3,730.5             | 3,644.5             | 9.0             | 14.6        | 50.82                 | -157.0                            | -787.3     | 558.1                | 542.0                 | 16.04                  | 34.797            |                           |         |
| 3,900.0  | 3,880.1             | 3,829.0             | 3,739.7             | 9.3             | 15.1        | 50.82                 | -162.4                            | -812.1     | 575.3                | 558.8                 | 16.50                  | 34.867            |                           |         |
| 4,000.0  | 3,979.5             | 3,927.5             | 3,834.8             | 9.6             | 15.6        | 50.81                 | -167.8                            | -837.0     | 592.5                | 575.5                 | 16.96                  | 34.932            |                           |         |
| 4,100.0  | 4,078.8             | 4,026.0             | 3,930.0             | 9.8             | 16.1        | 50.81                 | -173.2                            | -861.9     | 609.7                | 592.3                 | 17.42                  | 34.994            |                           |         |
| 4,200.0  | 4,178.2             | 4,124.6             | 4,025.1             | 10.1            | 16.6        | 50.81                 | -178.7                            | -886.7     | 626.9                | 609.1                 | 17.89                  | 35.053            |                           |         |
| 4,300.0  | 4,277.5             | 4,223.1             | 4,120.3             | 10.4            | 17.1        | 50.80                 | -184.1                            | -911.6     | 644.2                | 625.8                 | 18.35                  | 35.108            |                           |         |
| 4,400.0  | 4,376.8             | 4,321.6             | 4,215.5             | 10.6            | 17.6        | 50.80                 | -189.5                            | -936.5     | 661.4                | 642.6                 | 18.81                  | 35.160            |                           |         |
| 4,500.0  | 4,476.2             | 4,420.1             | 4,310.6             | 10.9            | 18.1        | 50.80                 | -194.9                            | -961.4     | 678.6                | 659.3                 | 19.27                  | 35.210            |                           |         |
| 4,600.0  | 4,575.5             | 4,518.6             | 4,405.8             | 11.2            | 18.5        | 50.79                 | -200.4                            | -986.2     | 695.8                | 676.1                 | 19.74                  | 35.257            |                           |         |
| 4,700.0  | 4,674.9             | 4,617.1             | 4,501.0             | 11.4            | 19.0        | 50.79                 | -205.8                            | -1,011.1   | 713.1                | 692.9                 | 20.20                  | 35.302            |                           |         |
| 4,800.0  | 4,774.2             | 4,715.6             | 4,596.1             | 11.7            | 19.5        | 50.79                 | -211.2                            | -1,036.0   | 730.3                | 709.6                 | 20.66                  | 35.344            |                           |         |
| 4,900.0  | 4,873.5             | 4,814.1             | 4,691.3             | 12.0            | 20.0        | 50.78                 | -216.6                            | -1,060.8   | 747.5                | 726.4                 | 21.13                  | 35.385            |                           |         |
| 5,000.0  | 4,972.9             | 4,912.6             | 4,786.4             | 12.2            | 20.5        | 50.78                 | -222.0                            | -1,085.7   | 764.7                | 743.1                 | 21.59                  | 35.424            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3A-32H-K268 - Hz - Plan #4 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |  |
| 5,100.0  | 5,072.2             | 5,011.1             | 4,881.6             | 12.5            | 21.0        | 50.78                 | -227.5                            | -1,110.6   | 782.0                | 759.9                 | 22.05                  | 35.461            |                           |  |
| 5,200.0  | 5,171.6             | 5,109.6             | 4,976.8             | 12.7            | 21.5        | 50.78                 | -232.9                            | -1,135.4   | 799.2                | 776.7                 | 22.51                  | 35.496            |                           |  |
| 5,300.0  | 5,270.9             | 5,208.1             | 5,071.9             | 13.0            | 22.0        | 50.77                 | -238.3                            | -1,160.3   | 816.4                | 793.4                 | 22.98                  | 35.530            |                           |  |
| 5,400.0  | 5,370.3             | 5,306.6             | 5,167.1             | 13.3            | 22.4        | 50.77                 | -243.7                            | -1,185.2   | 833.6                | 810.2                 | 23.44                  | 35.562            |                           |  |
| 5,500.0  | 5,469.6             | 5,405.1             | 5,262.2             | 13.5            | 22.9        | 50.77                 | -249.1                            | -1,210.0   | 850.9                | 827.0                 | 23.90                  | 35.593            |                           |  |
| 5,600.0  | 5,568.9             | 5,503.6             | 5,357.4             | 13.8            | 23.4        | 50.77                 | -254.6                            | -1,234.9   | 868.1                | 843.7                 | 24.37                  | 35.623            |                           |  |
| 5,700.0  | 5,668.3             | 5,602.1             | 5,452.6             | 14.1            | 23.9        | 50.77                 | -260.0                            | -1,259.8   | 885.3                | 860.5                 | 24.83                  | 35.652            |                           |  |
| 5,800.0  | 5,767.6             | 5,700.6             | 5,547.7             | 14.3            | 24.4        | 50.76                 | -265.4                            | -1,284.6   | 902.5                | 877.2                 | 25.30                  | 35.680            |                           |  |
| 5,900.0  | 5,867.0             | 5,799.1             | 5,642.9             | 14.6            | 24.9        | 50.76                 | -270.8                            | -1,309.5   | 919.8                | 894.0                 | 25.76                  | 35.706            |                           |  |
| 6,000.0  | 5,966.3             | 5,897.7             | 5,738.0             | 14.9            | 25.4        | 50.76                 | -276.2                            | -1,334.4   | 937.0                | 910.8                 | 26.22                  | 35.732            |                           |  |
| 6,100.0  | 6,065.6             | 5,996.2             | 5,833.2             | 15.1            | 25.9        | 50.76                 | -281.7                            | -1,359.2   | 954.2                | 927.5                 | 26.69                  | 35.756            |                           |  |
| 6,200.0  | 6,165.0             | 6,094.7             | 5,928.4             | 15.4            | 26.4        | 50.76                 | -287.1                            | -1,384.1   | 971.4                | 944.3                 | 27.15                  | 35.780            |                           |  |
| 6,300.0  | 6,264.3             | 6,193.2             | 6,023.5             | 15.7            | 26.8        | 50.76                 | -292.5                            | -1,409.0   | 988.6                | 961.0                 | 27.61                  | 35.803            |                           |  |
| 6,400.0  | 6,363.7             | 6,291.7             | 6,118.7             | 15.9            | 27.3        | 50.76                 | -297.9                            | -1,433.8   | 1,005.9              | 977.8                 | 28.08                  | 35.825            |                           |  |
| 6,500.0  | 6,463.0             | 6,390.2             | 6,213.8             | 16.2            | 27.8        | 50.75                 | -303.4                            | -1,458.7   | 1,023.1              | 994.6                 | 28.54                  | 35.846            |                           |  |
| 6,600.0  | 6,562.3             | 6,488.7             | 6,309.0             | 16.5            | 28.3        | 50.75                 | -308.8                            | -1,483.6   | 1,040.3              | 1,011.3               | 29.01                  | 35.866            |                           |  |
| 6,700.0  | 6,661.7             | 6,587.2             | 6,404.2             | 16.7            | 28.8        | 50.75                 | -314.2                            | -1,508.4   | 1,057.5              | 1,028.1               | 29.47                  | 35.886            |                           |  |
| 6,801.1  | 6,762.1             | 6,686.8             | 6,500.4             | 17.0            | 29.3        | 50.75                 | -319.7                            | -1,533.6   | 1,075.0              | 1,045.0               | 29.94                  | 35.906            |                           |  |
| 6,850.0  | 6,810.8             | 6,734.9             | 6,546.9             | 17.1            | 29.5        | 3.84                  | -322.3                            | -1,545.7   | 1,083.1              | 1,052.7               | 30.38                  | 35.647            |                           |  |
| 6,900.0  | 6,860.5             | 6,783.9             | 6,594.2             | 17.2            | 29.8        | -39.40                | -325.0                            | -1,558.1   | 1,090.8              | 1,060.2               | 30.67                  | 35.569            |                           |  |
| 6,950.0  | 6,909.9             | 6,832.2             | 6,640.9             | 17.2            | 30.0        | -56.10                | -327.7                            | -1,570.3   | 1,098.0              | 1,067.2               | 30.78                  | 35.672            |                           |  |
| 7,000.0  | 6,958.4             | 6,879.6             | 6,686.6             | 17.2            | 30.2        | -63.59                | -330.3                            | -1,582.2   | 1,104.6              | 1,073.9               | 30.73                  | 35.944            |                           |  |
| 7,050.0  | 7,005.8             | 6,925.5             | 6,731.0             | 17.1            | 30.5        | -67.89                | -332.8                            | -1,593.8   | 1,110.8              | 1,080.3               | 30.55                  | 36.366            |                           |  |
| 7,100.0  | 7,051.7             | 6,969.8             | 6,773.7             | 17.1            | 30.7        | -70.80                | -335.3                            | -1,605.0   | 1,116.8              | 1,086.5               | 30.26                  | 36.911            |                           |  |
| 7,150.0  | 7,095.8             | 7,011.9             | 6,814.5             | 17.0            | 30.9        | -73.02                | -337.6                            | -1,615.7   | 1,122.6              | 1,092.7               | 29.90                  | 37.552            |                           |  |
| 7,200.0  | 7,137.6             | 7,051.7             | 6,852.9             | 16.9            | 31.1        | -74.81                | -339.8                            | -1,625.7   | 1,128.6              | 1,099.1               | 29.50                  | 38.255            |                           |  |
| 7,250.0  | 7,176.9             | 7,089.3             | 6,889.1             | 16.8            | 31.3        | -76.36                | -343.1                            | -1,635.1   | 1,135.0              | 1,105.9               | 29.13                  | 38.964            |                           |  |
| 7,300.0  | 7,213.4             | 7,119.3             | 6,917.9             | 16.7            | 31.5        | -77.50                | -347.4                            | -1,642.6   | 1,142.0              | 1,113.2               | 28.81                  | 39.634            |                           |  |
| 7,350.0  | 7,246.8             | 7,142.4             | 6,939.8             | 16.6            | 31.6        | -78.20                | -351.9                            | -1,648.3   | 1,150.1              | 1,121.5               | 28.57                  | 40.262            |                           |  |
| 7,400.0  | 7,276.9             | 7,159.4             | 6,955.9             | 16.5            | 31.7        | -78.43                | -355.7                            | -1,652.5   | 1,159.5              | 1,131.1               | 28.38                  | 40.852            |                           |  |
| 7,450.0  | 7,303.4             | 7,171.2             | 6,966.9             | 16.4            | 31.7        | -78.20                | -358.7                            | -1,655.4   | 1,170.3              | 1,142.0               | 28.25                  | 41.432            |                           |  |
| 7,500.0  | 7,326.1             | 7,178.5             | 6,973.7             | 16.4            | 31.8        | -77.55                | -360.6                            | -1,657.1   | 1,182.5              | 1,154.4               | 28.13                  | 42.040            |                           |  |
| 7,550.0  | 7,344.8             | 7,182.1             | 6,977.0             | 16.4            | 31.8        | -76.50                | -361.6                            | -1,658.0   | 1,196.2              | 1,168.2               | 28.01                  | 42.709            |                           |  |
| 7,600.0  | 7,359.5             | 7,182.5             | 6,977.4             | 16.4            | 31.8        | -75.11                | -361.7                            | -1,658.1   | 1,211.1              | 1,183.2               | 27.86                  | 43.469            |                           |  |
| 7,650.0  | 7,370.0             | 7,180.2             | 6,975.3             | 16.5            | 31.8        | -73.42                | -361.1                            | -1,657.6   | 1,227.2              | 1,199.5               | 27.68                  | 44.336            |                           |  |
| 7,700.0  | 7,376.1             | 7,175.7             | 6,971.1             | 16.6            | 31.8        | -71.48                | -359.9                            | -1,656.5   | 1,244.3              | 1,216.8               | 27.46                  | 45.313            |                           |  |
| 7,746.2  | 7,378.0             | 7,169.8             | 6,965.6             | 16.8            | 31.7        | -69.51                | -358.3                            | -1,655.0   | 1,260.7              | 1,233.5               | 27.23                  | 46.290            |                           |  |
| 7,800.0  | 7,378.0             | 7,162.5             | 6,958.7             | 17.0            | 31.7        | -69.17                | -356.5                            | -1,653.3   | 1,281.1              | 1,253.6               | 27.43                  | 46.700            |                           |  |
| 7,900.0  | 7,378.0             | 7,150.0             | 6,947.0             | 17.5            | 31.6        | -68.58                | -353.5                            | -1,650.2   | 1,323.8              | 1,295.8               | 27.94                  | 47.384            |                           |  |



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3B-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | 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                               | -81.1      | 81.1                 |                       |                        |                   |                           |  |
| 100.0  | 100.0               | 99.0                | 99.0                | 0.2             | 0.2         | -90.00                | 0.0                               | -81.1      | 81.1                 | 80.8                  | 0.30                   | 268.507           | CC, ES                    |  |
| 200.0  | 200.0               | 199.0               | 199.0               | 0.3             | 0.3         | -90.00                | 0.0                               | -81.1      | 81.1                 | 80.5                  | 0.65                   | 124.629           |                           |  |
| 300.0  | 300.0               | 299.0               | 299.0               | 0.5             | 0.5         | -90.00                | 0.0                               | -81.1      | 81.1                 | 80.1                  | 1.00                   | 81.128            |                           |  |
| 400.0  | 400.0               | 397.6               | 397.6               | 0.7             | 0.7         | -89.95                | 0.1                               | -82.0      | 82.0                 | 80.6                  | 1.35                   | 60.851            |                           |  |
| 450.0  | 450.0               | 446.9               | 446.9               | 0.8             | 0.8         | -89.88                | 0.2                               | -83.0      | 83.0                 | 81.5                  | 1.52                   | 54.571            |                           |  |
| 500.0  | 500.0               | 496.2               | 496.1               | 0.9             | 0.8         | 43.64                 | 0.3                               | -84.5      | 84.4                 | 82.7                  | 1.69                   | 49.825            |                           |  |
| 600.0  | 600.0               | 594.6               | 594.5               | 1.0             | 1.0         | 44.63                 | 0.7                               | -88.7      | 87.4                 | 85.3                  | 2.04                   | 42.830            |                           |  |
| 700.0  | 699.9               | 693.0               | 692.7               | 1.2             | 1.2         | 46.39                 | 1.2                               | -94.6      | 90.9                 | 88.5                  | 2.39                   | 38.058            |                           |  |
| 800.0  | 799.8               | 791.2               | 790.6               | 1.4             | 1.4         | 48.77                 | 1.9                               | -102.1     | 95.1                 | 92.4                  | 2.74                   | 34.679            |                           |  |
| 900.0  | 899.5               | 889.3               | 888.3               | 1.6             | 1.7         | 51.66                 | 2.8                               | -111.3     | 100.1                | 97.0                  | 3.10                   | 32.236            |                           |  |
| 1,000.0  | 999.2               | 987.2               | 985.6               | 1.8             | 1.9         | 54.92                 | 3.8                               | -122.1     | 106.0                | 102.5                 | 3.48                   | 30.448            |                           |  |
| 1,108.4  | 1,106.9             | 1,093.0             | 1,090.5             | 2.1             | 2.2         | 58.69                 | 5.0                               | -135.7     | 113.6                | 109.7                 | 3.91                   | 29.033            |                           |  |
| 1,200.0  | 1,197.9             | 1,182.3             | 1,178.8             | 2.3             | 2.4         | 61.74                 | 6.2                               | -148.7     | 121.5                | 117.2                 | 4.30                   | 28.287            |                           |  |
| 1,300.0  | 1,297.3             | 1,279.5             | 1,274.7             | 2.5             | 2.7         | 64.43                 | 7.6                               | -164.3     | 132.0                | 127.3                 | 4.73                   | 27.931            |                           |  |
| 1,400.0  | 1,396.6             | 1,376.4             | 1,370.1             | 2.8             | 3.1         | 66.52                 | 9.2                               | -181.5     | 144.4                | 139.3                 | 5.17                   | 27.924 SF         |                           |  |
| 1,500.0  | 1,496.0             | 1,474.1             | 1,466.0             | 3.0             | 3.4         | 68.11                 | 11.0                              | -200.3     | 158.3                | 152.7                 | 5.63                   | 28.132            |                           |  |
| 1,600.0  | 1,595.3             | 1,573.1             | 1,563.0             | 3.3             | 3.8         | 69.44                 | 12.7                              | -219.5     | 172.6                | 166.5                 | 6.10                   | 28.303            |                           |  |
| 1,700.0  | 1,694.7             | 1,672.0             | 1,660.0             | 3.5             | 4.1         | 70.56                 | 14.5                              | -238.7     | 186.8                | 180.3                 | 6.57                   | 28.428            |                           |  |
| 1,800.0  | 1,794.0             | 1,770.9             | 1,757.0             | 3.8             | 4.5         | 71.53                 | 16.3                              | -257.9     | 201.2                | 194.1                 | 7.05                   | 28.518            |                           |  |
| 1,900.0  | 1,893.3             | 1,869.8             | 1,854.0             | 4.0             | 4.9         | 72.36                 | 18.0                              | -277.1     | 215.6                | 208.1                 | 7.54                   | 28.583            |                           |  |
| 2,000.0  | 1,992.7             | 1,968.7             | 1,951.0             | 4.3             | 5.3         | 73.09                 | 19.8                              | -296.3     | 230.0                | 222.0                 | 8.04                   | 28.628            |                           |  |
| 2,100.0  | 2,092.0             | 2,067.6             | 2,048.1             | 4.6             | 5.6         | 73.74                 | 21.6                              | -315.6     | 244.5                | 236.0                 | 8.53                   | 28.658            |                           |  |
| 2,200.0  | 2,191.4             | 2,166.5             | 2,145.1             | 4.8             | 6.0         | 74.31                 | 23.3                              | -334.8     | 259.0                | 250.0                 | 9.03                   | 28.678            |                           |  |
| 2,300.0  | 2,290.7             | 2,265.4             | 2,242.1             | 5.1             | 6.4         | 74.82                 | 25.1                              | -354.0     | 273.5                | 264.0                 | 9.53                   | 28.690            |                           |  |
| 2,400.0  | 2,390.0             | 2,364.4             | 2,339.1             | 5.3             | 6.8         | 75.28                 | 26.9                              | -373.2     | 288.1                | 278.0                 | 10.04                  | 28.695            |                           |  |
| 2,500.0  | 2,489.4             | 2,463.3             | 2,436.1             | 5.6             | 7.1         | 75.70                 | 28.6                              | -392.4     | 302.6                | 292.1                 | 10.55                  | 28.695            |                           |  |
| 2,600.0  | 2,588.7             | 2,562.2             | 2,533.1             | 5.9             | 7.5         | 76.08                 | 30.4                              | -411.6     | 317.2                | 306.1                 | 11.06                  | 28.692            |                           |  |
| 2,700.0  | 2,688.1             | 2,661.1             | 2,630.1             | 6.1             | 7.9         | 76.42                 | 32.2                              | -430.8     | 331.8                | 320.2                 | 11.57                  | 28.686            |                           |  |
| 2,800.0  | 2,787.4             | 2,760.0             | 2,727.2             | 6.4             | 8.3         | 76.74                 | 33.9                              | -450.0     | 346.4                | 334.3                 | 12.08                  | 28.679            |                           |  |
| 2,900.0  | 2,886.7             | 2,858.9             | 2,824.2             | 6.7             | 8.6         | 77.03                 | 35.7                              | -469.2     | 361.0                | 348.4                 | 12.59                  | 28.669            |                           |  |
| 3,000.0  | 2,986.1             | 2,957.8             | 2,921.2             | 6.9             | 9.0         | 77.30                 | 37.5                              | -488.4     | 375.6                | 362.5                 | 13.11                  | 28.659            |                           |  |
| 3,100.0  | 3,085.4             | 3,056.7             | 3,018.2             | 7.2             | 9.4         | 77.54                 | 39.2                              | -507.6     | 390.2                | 376.6                 | 13.62                  | 28.648            |                           |  |
| 3,200.0  | 3,184.8             | 3,155.6             | 3,115.2             | 7.5             | 9.8         | 77.77                 | 41.0                              | -526.8     | 404.8                | 390.7                 | 14.14                  | 28.637            |                           |  |
| 3,300.0  | 3,284.1             | 3,254.6             | 3,212.2             | 7.7             | 10.2        | 77.99                 | 42.8                              | -546.1     | 419.5                | 404.8                 | 14.65                  | 28.625            |                           |  |
| 3,400.0  | 3,383.4             | 3,353.5             | 3,309.2             | 8.0             | 10.5        | 78.19                 | 44.5                              | -565.3     | 434.1                | 418.9                 | 15.17                  | 28.613            |                           |  |
| 3,500.0  | 3,482.8             | 3,452.4             | 3,406.2             | 8.2             | 10.9        | 78.37                 | 46.3                              | -584.5     | 448.7                | 433.1                 | 15.69                  | 28.600            |                           |  |
| 3,600.0  | 3,582.1             | 3,551.3             | 3,503.3             | 8.5             | 11.3        | 78.55                 | 48.1                              | -603.7     | 463.4                | 447.2                 | 16.21                  | 28.588            |                           |  |
| 3,700.0  | 3,681.5             | 3,650.2             | 3,600.3             | 8.8             | 11.7        | 78.71                 | 49.8                              | -622.9     | 478.0                | 461.3                 | 16.73                  | 28.576            |                           |  |
| 3,800.0  | 3,780.8             | 3,749.1             | 3,697.3             | 9.0             | 12.1        | 78.87                 | 51.6                              | -642.1     | 492.7                | 475.4                 | 17.25                  | 28.564            |                           |  |
| 3,900.0  | 3,880.1             | 3,848.0             | 3,794.3             | 9.3             | 12.5        | 79.01                 | 53.4                              | -661.3     | 507.3                | 489.6                 | 17.77                  | 28.552            |                           |  |
| 4,000.0  | 3,979.5             | 3,946.9             | 3,891.3             | 9.6             | 12.8        | 79.15                 | 55.1                              | -680.5     | 522.0                | 503.7                 | 18.29                  | 28.541            |                           |  |
| 4,100.0  | 4,078.8             | 4,045.9             | 3,988.3             | 9.8             | 13.2        | 79.28                 | 56.9                              | -699.7     | 536.7                | 517.9                 | 18.81                  | 28.530            |                           |  |
| 4,200.0  | 4,178.2             | 4,144.8             | 4,085.3             | 10.1            | 13.6        | 79.40                 | 58.7                              | -718.9     | 551.3                | 532.0                 | 19.33                  | 28.518            |                           |  |
| 4,300.0  | 4,277.5             | 4,243.7             | 4,182.3             | 10.4            | 14.0        | 79.52                 | 60.4                              | -738.1     | 566.0                | 546.2                 | 19.85                  | 28.508            |                           |  |
| 4,400.0  | 4,376.8             | 4,342.6             | 4,279.4             | 10.6            | 14.4        | 79.63                 | 62.2                              | -757.3     | 580.7                | 560.3                 | 20.38                  | 28.497            |                           |  |
| 4,500.0  | 4,476.2             | 4,441.5             | 4,376.4             | 10.9            | 14.8        | 79.73                 | 64.0                              | -776.6     | 595.3                | 574.4                 | 20.90                  | 28.487            |                           |  |
| 4,600.0  | 4,575.5             | 4,540.4             | 4,473.4             | 11.2            | 15.1        | 79.83                 | 65.7                              | -795.8     | 610.0                | 588.6                 | 21.42                  | 28.476            |                           |  |
| 4,700.0  | 4,674.9             | 4,639.3             | 4,570.4             | 11.4            | 15.5        | 79.93                 | 67.5                              | -815.0     | 624.7                | 602.8                 | 21.94                  | 28.467            |                           |  |
| 4,800.0  | 4,774.2             | 4,738.2             | 4,667.4             | 11.7            | 15.9        | 80.02                 | 69.3                              | -834.2     | 639.4                | 616.9                 | 22.47                  | 28.457            |                           |  |
| 4,900.0  | 4,873.5             | 4,837.2             | 4,764.4             | 12.0            | 16.3        | 80.10                 | 71.0                              | -853.4     | 654.1                | 631.1                 | 22.99                  | 28.448            |                           |  |
| 5,000.0  | 4,972.9             | 4,936.1             | 4,861.4             | 12.2            | 16.7        | 80.19                 | 72.8                              | -872.6     | 668.7                | 645.2                 | 23.51                  | 28.439            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3B-32H-K268 - Hz - Plan #2 |                |                |                |                 |        |                   |                        |                 |                  |                        |                   |        | Offset Site Error: 0.0 ft |         |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|------------------------|-------------------|--------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                |                |                |                 |        |                   |                        |                 |                  |                        |                   |        | Offset Well Error: 0.0 ft |         |
| Reference  |                | Offset         |                | Semi Major Axis |        |                   | Distance               |                 |                  |                        |                   |        |                           | Warning |
| Measured Depth   | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor |        |                           |         |
| (ft)   | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)      | (ft)             | (ft)                   |                   |        |                           |         |
| 5,100.0  | 5,072.2        | 5,035.0        | 4,958.5        | 12.5            | 17.0   | 80.27             | 74.6                   | -891.8          | 683.4            | 659.4                  | 24.04             | 28.430 |                           |         |
| 5,200.0  | 5,171.6        | 5,133.9        | 5,055.5        | 12.7            | 17.4   | 80.34             | 76.3                   | -911.0          | 698.1            | 673.5                  | 24.56             | 28.421 |                           |         |
| 5,300.0  | 5,270.9        | 5,232.8        | 5,152.5        | 13.0            | 17.8   | 80.42             | 78.1                   | -930.2          | 712.8            | 687.7                  | 25.09             | 28.413 |                           |         |
| 5,400.0  | 5,370.3        | 5,331.7        | 5,249.5        | 13.3            | 18.2   | 80.49             | 79.9                   | -949.4          | 727.5            | 701.9                  | 25.61             | 28.405 |                           |         |
| 5,500.0  | 5,469.6        | 5,430.6        | 5,346.5        | 13.5            | 18.6   | 80.55             | 81.6                   | -968.6          | 742.2            | 716.0                  | 26.14             | 28.397 |                           |         |
| 5,600.0  | 5,568.9        | 5,529.5        | 5,443.5        | 13.8            | 19.0   | 80.62             | 83.4                   | -987.8          | 756.8            | 730.2                  | 26.66             | 28.389 |                           |         |
| 5,700.0  | 5,668.3        | 5,628.4        | 5,540.5        | 14.1            | 19.3   | 80.68             | 85.2                   | -1,007.1        | 771.5            | 744.3                  | 27.18             | 28.381 |                           |         |
| 5,800.0  | 5,767.6        | 5,727.4        | 5,637.5        | 14.3            | 19.7   | 80.74             | 86.9                   | -1,026.3        | 786.2            | 758.5                  | 27.71             | 28.374 |                           |         |
| 5,900.0  | 5,867.0        | 5,826.3        | 5,734.6        | 14.6            | 20.1   | 80.80             | 88.7                   | -1,045.5        | 800.9            | 772.7                  | 28.23             | 28.367 |                           |         |
| 6,000.0  | 5,966.3        | 5,925.2        | 5,831.6        | 14.9            | 20.5   | 80.85             | 90.5                   | -1,064.7        | 815.6            | 786.8                  | 28.76             | 28.360 |                           |         |
| 6,100.0  | 6,065.6        | 6,024.1        | 5,928.6        | 15.1            | 20.9   | 80.91             | 92.2                   | -1,083.9        | 830.3            | 801.0                  | 29.28             | 28.353 |                           |         |
| 6,200.0  | 6,165.0        | 6,123.0        | 6,025.6        | 15.4            | 21.3   | 80.96             | 94.0                   | -1,103.1        | 845.0            | 815.2                  | 29.81             | 28.346 |                           |         |
| 6,300.0  | 6,264.3        | 6,221.9        | 6,122.6        | 15.7            | 21.6   | 81.01             | 95.8                   | -1,122.3        | 859.7            | 829.3                  | 30.33             | 28.340 |                           |         |
| 6,400.0  | 6,363.7        | 6,320.8        | 6,219.6        | 15.9            | 22.0   | 81.06             | 97.5                   | -1,141.5        | 874.4            | 843.5                  | 30.86             | 28.334 |                           |         |
| 6,500.0  | 6,463.0        | 6,419.7        | 6,316.6        | 16.2            | 22.4   | 81.10             | 99.3                   | -1,160.7        | 889.1            | 857.7                  | 31.38             | 28.328 |                           |         |
| 6,600.0  | 6,562.3        | 6,518.7        | 6,413.6        | 16.5            | 22.8   | 81.15             | 101.1                  | -1,179.9        | 903.7            | 871.8                  | 31.91             | 28.322 |                           |         |
| 6,700.0  | 6,661.7        | 6,617.6        | 6,510.7        | 16.7            | 23.2   | 81.19             | 102.8                  | -1,199.1        | 918.4            | 886.0                  | 32.44             | 28.316 |                           |         |
| 6,801.1  | 6,762.1        | 6,717.6        | 6,608.7        | 17.0            | 23.6   | 81.24             | 104.6                  | -1,218.6        | 933.3            | 900.3                  | 32.97             | 28.310 |                           |         |
| 6,850.0  | 6,810.8        | 6,766.1        | 6,656.3        | 17.1            | 23.8   | 34.01             | 105.5                  | -1,228.0        | 939.2            | 905.9                  | 33.31             | 28.197 |                           |         |
| 6,900.0  | 6,860.5        | 6,815.7        | 6,705.0        | 17.2            | 23.9   | -9.69             | 106.4                  | -1,237.6        | 942.6            | 909.2                  | 33.39             | 28.227 |                           |         |
| 6,950.0  | 6,909.9        | 6,865.0        | 6,753.4        | 17.2            | 24.1   | -26.99            | 107.2                  | -1,247.2        | 943.3            | 910.1                  | 33.21             | 28.402 |                           |         |
| 7,000.0  | 6,958.4        | 6,913.7        | 6,801.1        | 17.2            | 24.3   | -35.24            | 108.1                  | -1,256.6        | 941.4            | 908.7                  | 32.78             | 28.717 |                           |         |
| 7,050.0  | 7,005.8        | 6,961.2        | 6,847.7        | 17.1            | 24.5   | -40.46            | 109.0                  | -1,265.9        | 937.1            | 905.0                  | 32.13             | 29.165 |                           |         |
| 7,100.0  | 7,051.7        | 7,007.3        | 6,892.9        | 17.1            | 24.7   | -44.52            | 109.8                  | -1,274.8        | 930.6            | 899.3                  | 31.30             | 29.730 |                           |         |
| 7,150.0  | 7,095.8        | 7,051.6        | 6,936.4        | 17.0            | 24.9   | -48.12            | 110.6                  | -1,283.4        | 922.0            | 891.7                  | 30.35             | 30.383 |                           |         |
| 7,200.0  | 7,137.6        | 7,093.8        | 6,977.8        | 16.9            | 25.0   | -51.55            | 111.3                  | -1,291.6        | 911.7            | 882.4                  | 29.34             | 31.075 |                           |         |
| 7,250.0  | 7,176.9        | 7,133.6        | 7,016.8        | 16.8            | 25.2   | -54.95            | 112.0                  | -1,299.3        | 900.1            | 871.7                  | 28.36             | 31.736 |                           |         |
| 7,300.0  | 7,213.4        | 7,222.8        | 7,104.1        | 16.7            | 25.5   | -60.94            | 109.1                  | -1,316.6        | 886.8            | 859.4                  | 27.43             | 32.328 |                           |         |
| 7,350.0  | 7,246.8        | 7,307.1        | 7,185.4        | 16.6            | 25.8   | -67.83            | 94.0                   | -1,332.7        | 871.0            | 844.2                  | 26.82             | 32.477 |                           |         |
| 7,400.0  | 7,276.9        | 7,351.4        | 7,227.0        | 16.5            | 26.0   | -72.75            | 81.2                   | -1,341.0        | 855.0            | 828.6                  | 26.48             | 32.291 |                           |         |
| 7,450.0  | 7,303.4        | 7,373.2        | 7,247.1        | 16.4            | 26.0   | -76.07            | 73.7                   | -1,345.0        | 840.4            | 814.1                  | 26.29             | 31.968 |                           |         |
| 7,500.0  | 7,326.1        | 7,381.6        | 7,254.7        | 16.4            | 26.1   | -78.20            | 70.6                   | -1,346.5        | 827.7            | 801.5                  | 26.18             | 31.614 |                           |         |
| 7,550.0  | 7,344.8        | 7,381.5        | 7,254.7        | 16.4            | 26.1   | -79.43            | 70.6                   | -1,346.5        | 817.3            | 791.2                  | 26.14             | 31.272 |                           |         |
| 7,600.0  | 7,359.5        | 7,375.9        | 7,249.6        | 16.4            | 26.0   | -79.96            | 72.7                   | -1,345.4        | 809.5            | 783.4                  | 26.15             | 30.959 |                           |         |
| 7,650.0  | 7,370.0        | 7,366.4        | 7,240.9        | 16.5            | 26.0   | -79.90            | 76.1                   | -1,343.7        | 804.3            | 778.1                  | 26.21             | 30.681 |                           |         |
| 7,700.0  | 7,376.1        | 7,354.1        | 7,229.6        | 16.6            | 26.0   | -79.37            | 80.3                   | -1,341.5        | 801.6            | 775.3                  | 26.34             | 30.436 |                           |         |
| 7,729.2  | 7,377.7        | 7,346.0        | 7,222.0        | 16.7            | 25.9   | -78.86            | 82.9                   | -1,340.0        | 801.2            | 774.8                  | 26.44             | 30.300 |                           |         |
| 7,746.2  | 7,378.0        | 7,341.0        | 7,217.3        | 16.8            | 25.9   | -78.50            | 84.5                   | -1,339.1        | 801.3            | 774.8                  | 26.51             | 30.233 |                           |         |
| 7,800.0  | 7,378.0        | 7,326.1        | 7,203.3        | 17.0            | 25.9   | -77.49            | 88.9                   | -1,336.3        | 803.9            | 777.1                  | 26.72             | 30.081 |                           |         |
| 7,900.0  | 7,378.0        | 7,300.0        | 7,178.7        | 17.5            | 25.8   | -75.69            | 95.7                   | -1,331.4        | 817.3            | 790.1                  | 27.26             | 29.987 |                           |         |
| 8,000.0  | 7,378.0        | 7,286.9        | 7,166.2        | 18.2            | 25.7   | -74.79            | 98.7                   | -1,328.9        | 841.9            | 813.9                  | 27.99             | 30.084 |                           |         |
| 8,100.0  | 7,378.0        | 7,273.5        | 7,153.3        | 19.0            | 25.7   | -73.85            | 101.5                  | -1,326.4        | 876.9            | 848.1                  | 28.84             | 30.406 |                           |         |
| 8,200.0  | 7,378.0        | 7,262.7        | 7,142.9        | 20.0            | 25.7   | -73.10            | 103.5                  | -1,324.3        | 921.3            | 891.4                  | 29.81             | 30.901 |                           |         |
| 8,300.0  | 7,378.0        | 7,250.0        | 7,130.6        | 21.0            | 25.6   | -72.21            | 105.6                  | -1,321.9        | 973.7            | 942.8                  | 30.86             | 31.556 |                           |         |
| 8,400.0  | 7,378.0        | 7,250.0        | 7,130.6        | 22.2            | 25.6   | -72.21            | 105.6                  | -1,321.9        | 1,033.0          | 1,001.0                | 32.06             | 32.223 |                           |         |
| 8,500.0  | 7,378.0        | 7,250.0        | 7,130.6        | 23.4            | 25.6   | -72.21            | 105.6                  | -1,321.9        | 1,098.3          | 1,065.0                | 33.33             | 32.955 |                           |         |
| 8,600.0  | 7,378.0        | 7,234.3        | 7,115.4        | 24.7            | 25.6   | -71.12            | 107.8                  | -1,318.9        | 1,168.2          | 1,133.7                | 34.51             | 33.856 |                           |         |
| 8,700.0  | 7,378.0        | 7,229.5        | 7,110.7        | 26.0            | 25.5   | -70.79            | 108.4                  | -1,318.0        | 1,242.3          | 1,206.5                | 35.82             | 34.687 |                           |         |
| 8,800.0  | 7,378.0        | 7,225.3        | 7,106.6        | 27.4            | 25.5   | -70.49            | 108.9                  | -1,317.1        | 1,319.8          | 1,282.6                | 37.16             | 35.515 |                           |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3C-32H-K268 - Hz - Plan #3 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |               | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------------|--------------------|--------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |               | Offset Well Error: | 0.0 ft |
| Reference  |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   | Total      |                      | Separation            |                  | Warning       |                    |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor        |                    |        |
| 0.0  | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | -92.76                | -3.6                              | -75.5      | 75.6                 |                       |                  |               |                    |        |
| 100.0  | 100.0               | 99.0                | 99.0                | 0.2             | 0.2         | -92.76                | -3.6                              | -75.5      | 75.6                 | 75.3                  | 0.30             | 250.280       |                    |        |
| 200.0  | 200.0               | 199.0               | 199.0               | 0.3             | 0.3         | -92.76                | -3.6                              | -75.5      | 75.6                 | 75.0                  | 0.65             | 116.169       |                    |        |
| 300.0  | 300.0               | 299.0               | 299.0               | 0.5             | 0.5         | -92.76                | -3.6                              | -75.5      | 75.6                 | 74.6                  | 1.00             | 75.621        |                    |        |
| 400.0  | 400.0               | 399.0               | 399.0               | 0.7             | 0.7         | -92.76                | -3.6                              | -75.5      | 75.6                 | 74.3                  | 1.35             | 56.056 CC, ES |                    |        |
| 450.0  | 450.0               | 448.4               | 448.4               | 0.8             | 0.8         | -92.80                | -3.7                              | -75.7      | 75.8                 | 74.3                  | 1.52             | 49.800        |                    |        |
| 500.0  | 500.0               | 497.7               | 497.7               | 0.9             | 0.8         | 40.55                 | -3.9                              | -76.3      | 76.3                 | 74.6                  | 1.70             | 44.981        |                    |        |
| 600.0  | 600.0               | 596.4               | 596.4               | 1.0             | 1.0         | 40.99                 | -4.5                              | -78.8      | 77.5                 | 75.4                  | 2.04             | 37.917        |                    |        |
| 700.0  | 699.9               | 695.1               | 695.0               | 1.2             | 1.2         | 41.98                 | -5.5                              | -82.9      | 79.1                 | 76.7                  | 2.39             | 33.036        |                    |        |
| 800.0  | 799.8               | 793.7               | 793.4               | 1.4             | 1.4         | 43.46                 | -7.0                              | -88.6      | 81.0                 | 78.3                  | 2.75             | 29.503        |                    |        |
| 900.0  | 899.5               | 892.3               | 891.7               | 1.6             | 1.6         | 45.38                 | -8.9                              | -96.0      | 83.5                 | 80.4                  | 3.11             | 26.858        |                    |        |
| 1,000.0  | 999.2               | 990.8               | 989.7               | 1.8             | 1.8         | 47.66                 | -11.2                             | -105.0     | 86.5                 | 83.0                  | 3.49             | 24.824        |                    |        |
| 1,108.4  | 1,106.9             | 1,097.4             | 1,095.7             | 2.1             | 2.1         | 50.45                 | -14.2                             | -116.6     | 90.5                 | 86.5                  | 3.92             | 23.104        |                    |        |
| 1,200.0  | 1,197.9             | 1,187.6             | 1,185.1             | 2.3             | 2.3         | 52.67                 | -17.1                             | -127.9     | 94.9                 | 90.6                  | 4.30             | 22.081        |                    |        |
| 1,300.0  | 1,297.3             | 1,285.8             | 1,282.2             | 2.5             | 2.6         | 54.47                 | -20.7                             | -141.7     | 101.3                | 96.6                  | 4.73             | 21.438        |                    |        |
| 1,400.0  | 1,396.6             | 1,383.8             | 1,379.0             | 2.8             | 2.9         | 55.64                 | -24.6                             | -157.1     | 109.4                | 104.2                 | 5.17             | 21.170        |                    |        |
| 1,500.0  | 1,496.0             | 1,482.5             | 1,476.1             | 3.0             | 3.2         | 56.32                 | -29.0                             | -174.1     | 118.8                | 113.2                 | 5.61             | 21.161        |                    |        |
| 1,600.0  | 1,595.3             | 1,582.0             | 1,574.0             | 3.3             | 3.6         | 56.86                 | -33.4                             | -191.4     | 128.5                | 122.4                 | 6.07             | 21.161        |                    |        |
| 1,700.0  | 1,694.7             | 1,681.5             | 1,671.9             | 3.5             | 3.9         | 57.32                 | -37.9                             | -208.8     | 138.1                | 131.6                 | 6.53             | 21.145        |                    |        |
| 1,800.0  | 1,794.0             | 1,781.0             | 1,769.8             | 3.8             | 4.2         | 57.72                 | -42.3                             | -226.1     | 147.8                | 140.8                 | 7.00             | 21.118        |                    |        |
| 1,900.0  | 1,893.3             | 1,880.6             | 1,867.7             | 4.0             | 4.6         | 58.07                 | -46.8                             | -243.4     | 157.5                | 150.0                 | 7.47             | 21.084        |                    |        |
| 2,000.0  | 1,992.7             | 1,980.1             | 1,965.6             | 4.3             | 4.9         | 58.38                 | -51.2                             | -260.7     | 167.2                | 159.2                 | 7.94             | 21.046        |                    |        |
| 2,100.0  | 2,092.0             | 2,079.6             | 2,063.5             | 4.6             | 5.3         | 58.66                 | -55.7                             | -278.1     | 176.9                | 168.4                 | 8.42             | 21.006        |                    |        |
| 2,200.0  | 2,191.4             | 2,179.1             | 2,161.4             | 4.8             | 5.6         | 58.90                 | -60.2                             | -295.4     | 186.5                | 177.6                 | 8.90             | 20.964        |                    |        |
| 2,300.0  | 2,290.7             | 2,278.7             | 2,259.3             | 5.1             | 6.0         | 59.13                 | -64.6                             | -312.7     | 196.2                | 186.9                 | 9.38             | 20.923        |                    |        |
| 2,400.0  | 2,390.0             | 2,378.2             | 2,357.2             | 5.3             | 6.3         | 59.33                 | -69.1                             | -330.1     | 205.9                | 196.1                 | 9.86             | 20.882        |                    |        |
| 2,500.0  | 2,489.4             | 2,477.7             | 2,455.1             | 5.6             | 6.7         | 59.51                 | -73.5                             | -347.4     | 215.6                | 205.3                 | 10.35            | 20.842        |                    |        |
| 2,600.0  | 2,588.7             | 2,577.2             | 2,553.0             | 5.9             | 7.0         | 59.68                 | -78.0                             | -364.7     | 225.3                | 214.5                 | 10.83            | 20.803        |                    |        |
| 2,700.0  | 2,688.1             | 2,676.8             | 2,650.9             | 6.1             | 7.4         | 59.83                 | -82.4                             | -382.0     | 235.0                | 223.7                 | 11.32            | 20.766        |                    |        |
| 2,800.0  | 2,787.4             | 2,776.3             | 2,748.8             | 6.4             | 7.7         | 59.98                 | -86.9                             | -399.4     | 244.8                | 232.9                 | 11.81            | 20.730        |                    |        |
| 2,900.0  | 2,886.7             | 2,875.8             | 2,846.7             | 6.7             | 8.1         | 60.11                 | -91.3                             | -416.7     | 254.5                | 242.2                 | 12.30            | 20.695        |                    |        |
| 3,000.0  | 2,986.1             | 2,975.3             | 2,944.6             | 6.9             | 8.5         | 60.23                 | -95.8                             | -434.0     | 264.2                | 251.4                 | 12.79            | 20.662        |                    |        |
| 3,100.0  | 3,085.4             | 3,074.9             | 3,042.5             | 7.2             | 8.8         | 60.34                 | -100.2                            | -451.4     | 273.9                | 260.6                 | 13.28            | 20.630        |                    |        |
| 3,200.0  | 3,184.8             | 3,174.4             | 3,140.4             | 7.5             | 9.2         | 60.45                 | -104.7                            | -468.7     | 283.6                | 269.8                 | 13.77            | 20.599        |                    |        |
| 3,300.0  | 3,284.1             | 3,273.9             | 3,238.3             | 7.7             | 9.5         | 60.54                 | -109.1                            | -486.0     | 293.3                | 279.0                 | 14.26            | 20.570        |                    |        |
| 3,400.0  | 3,383.4             | 3,373.5             | 3,336.2             | 8.0             | 9.9         | 60.64                 | -113.6                            | -503.4     | 303.0                | 288.3                 | 14.75            | 20.541        |                    |        |
| 3,500.0  | 3,482.8             | 3,473.0             | 3,434.2             | 8.2             | 10.3        | 60.72                 | -118.0                            | -520.7     | 312.7                | 297.5                 | 15.24            | 20.514        |                    |        |
| 3,600.0  | 3,582.1             | 3,572.5             | 3,532.1             | 8.5             | 10.6        | 60.80                 | -122.5                            | -538.0     | 322.4                | 306.7                 | 15.74            | 20.489        |                    |        |
| 3,700.0  | 3,681.5             | 3,672.0             | 3,630.0             | 8.8             | 11.0        | 60.88                 | -127.0                            | -555.3     | 332.2                | 315.9                 | 16.23            | 20.464        |                    |        |
| 3,800.0  | 3,780.8             | 3,771.6             | 3,727.9             | 9.0             | 11.3        | 60.95                 | -131.4                            | -572.7     | 341.9                | 325.1                 | 16.73            | 20.440        |                    |        |
| 3,900.0  | 3,880.1             | 3,871.1             | 3,825.8             | 9.3             | 11.7        | 61.02                 | -135.9                            | -590.0     | 351.6                | 334.4                 | 17.22            | 20.417        |                    |        |
| 4,000.0  | 3,979.5             | 3,970.6             | 3,923.7             | 9.6             | 12.0        | 61.08                 | -140.3                            | -607.3     | 361.3                | 343.6                 | 17.71            | 20.396        |                    |        |
| 4,100.0  | 4,078.8             | 4,070.1             | 4,021.6             | 9.8             | 12.4        | 61.14                 | -144.8                            | -624.7     | 371.0                | 352.8                 | 18.21            | 20.375        |                    |        |
| 4,200.0  | 4,178.2             | 4,169.7             | 4,119.5             | 10.1            | 12.8        | 61.20                 | -149.2                            | -642.0     | 380.7                | 362.0                 | 18.71            | 20.355        |                    |        |
| 4,300.0  | 4,277.5             | 4,269.2             | 4,217.4             | 10.4            | 13.1        | 61.26                 | -153.7                            | -659.3     | 390.5                | 371.3                 | 19.20            | 20.335        |                    |        |
| 4,400.0  | 4,376.8             | 4,368.7             | 4,315.3             | 10.6            | 13.5        | 61.31                 | -158.1                            | -676.7     | 400.2                | 380.5                 | 19.70            | 20.317        |                    |        |
| 4,500.0  | 4,476.2             | 4,468.2             | 4,413.2             | 10.9            | 13.8        | 61.36                 | -162.6                            | -694.0     | 409.9                | 389.7                 | 20.19            | 20.299        |                    |        |
| 4,600.0  | 4,575.5             | 4,567.8             | 4,511.1             | 11.2            | 14.2        | 61.41                 | -167.0                            | -711.3     | 419.6                | 398.9                 | 20.69            | 20.282        |                    |        |
| 4,700.0  | 4,674.9             | 4,667.3             | 4,609.0             | 11.4            | 14.6        | 61.45                 | -171.5                            | -728.6     | 429.3                | 408.1                 | 21.19            | 20.265        |                    |        |
| 4,800.0  | 4,774.2             | 4,766.8             | 4,706.9             | 11.7            | 14.9        | 61.49                 | -175.9                            | -746.0     | 439.0                | 417.4                 | 21.68            | 20.249        |                    |        |
| 4,900.0  | 4,873.5             | 4,866.3             | 4,804.8             | 12.0            | 15.3        | 61.54                 | -180.4                            | -763.3     | 448.8                | 426.6                 | 22.18            | 20.234        |                    |        |
| 5,000.0  | 4,972.9             | 4,965.9             | 4,902.7             | 12.2            | 15.6        | 61.58                 | -184.9                            | -780.6     | 458.5                | 435.8                 | 22.68            | 20.219        |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3C-32H-K268 - Hz - Plan #3 |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                        | Offset Site Error: 0.0 ft |  |         |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|--|---------|
| Survey Program: O-Geolink MWD  |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                        | Offset Well Error: 0.0 ft |  |         |
| Reference  |                     |                     |                     | Offset         |             | Semi Major Axis       |                                   | Distance   |                      |                       |                        |                           |  | Warning |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor         |  |         |
| 5,100.0  | 5,072.2             | 5,065.4             | 5,000.6             | 12.5           | 16.0        | 61.61                 | -189.3                            | -798.0     | 468.2                | 445.0                 | 23.17                  | 20.204                    |  |         |
| 5,200.0  | 5,171.6             | 5,164.9             | 5,098.5             | 12.7           | 16.4        | 61.65                 | -193.8                            | -815.3     | 477.9                | 454.2                 | 23.67                  | 20.191                    |  |         |
| 5,300.0  | 5,270.9             | 5,264.4             | 5,196.4             | 13.0           | 16.7        | 61.69                 | -198.2                            | -832.6     | 487.6                | 463.5                 | 24.17                  | 20.177                    |  |         |
| 5,400.0  | 5,370.3             | 5,364.0             | 5,294.3             | 13.3           | 17.1        | 61.72                 | -202.7                            | -849.9     | 497.4                | 472.7                 | 24.67                  | 20.164                    |  |         |
| 5,500.0  | 5,469.6             | 5,463.5             | 5,392.2             | 13.5           | 17.4        | 61.75                 | -207.1                            | -867.3     | 507.1                | 481.9                 | 25.16                  | 20.152                    |  |         |
| 5,600.0  | 5,568.9             | 5,563.0             | 5,490.1             | 13.8           | 17.8        | 61.78                 | -211.6                            | -884.6     | 516.8                | 491.1                 | 25.66                  | 20.140                    |  |         |
| 5,700.0  | 5,668.3             | 5,662.6             | 5,588.1             | 14.1           | 18.2        | 61.81                 | -216.0                            | -901.9     | 526.5                | 500.4                 | 26.16                  | 20.128                    |  |         |
| 5,800.0  | 5,767.6             | 5,762.1             | 5,686.0             | 14.3           | 18.5        | 61.84                 | -220.5                            | -919.3     | 536.2                | 509.6                 | 26.66                  | 20.117                    |  |         |
| 5,900.0  | 5,867.0             | 5,861.6             | 5,783.9             | 14.6           | 18.9        | 61.87                 | -224.9                            | -936.6     | 546.0                | 518.8                 | 27.15                  | 20.106                    |  |         |
| 6,000.0  | 5,966.3             | 5,961.1             | 5,881.8             | 14.9           | 19.2        | 61.90                 | -229.4                            | -953.9     | 555.7                | 528.0                 | 27.65                  | 20.095                    |  |         |
| 6,100.0  | 6,065.6             | 6,060.7             | 5,979.7             | 15.1           | 19.6        | 61.92                 | -233.8                            | -971.3     | 565.4                | 537.3                 | 28.15                  | 20.085                    |  |         |
| 6,200.0  | 6,165.0             | 6,160.2             | 6,077.6             | 15.4           | 20.0        | 61.95                 | -238.3                            | -988.6     | 575.1                | 546.5                 | 28.65                  | 20.075                    |  |         |
| 6,300.0  | 6,264.3             | 6,259.7             | 6,175.5             | 15.7           | 20.3        | 61.97                 | -242.8                            | -1,005.9   | 584.8                | 555.7                 | 29.15                  | 20.065                    |  |         |
| 6,400.0  | 6,363.7             | 6,359.2             | 6,273.4             | 15.9           | 20.7        | 62.00                 | -247.2                            | -1,023.2   | 594.6                | 564.9                 | 29.65                  | 20.056                    |  |         |
| 6,500.0  | 6,463.0             | 6,458.8             | 6,371.3             | 16.2           | 21.1        | 62.02                 | -251.7                            | -1,040.6   | 604.3                | 574.1                 | 30.14                  | 20.047                    |  |         |
| 6,600.0  | 6,562.3             | 6,558.3             | 6,469.2             | 16.5           | 21.4        | 62.04                 | -256.1                            | -1,057.9   | 614.0                | 583.4                 | 30.64                  | 20.038                    |  |         |
| 6,700.0  | 6,661.7             | 6,657.8             | 6,567.1             | 16.7           | 21.8        | 62.06                 | -260.6                            | -1,075.2   | 623.7                | 592.6                 | 31.14                  | 20.029                    |  |         |
| 6,801.1  | 6,762.1             | 6,758.4             | 6,666.1             | 17.0           | 22.1        | 62.08                 | -265.1                            | -1,092.7   | 633.6                | 601.9                 | 31.65                  | 20.020                    |  |         |
| 6,850.0  | 6,810.8             | 6,807.1             | 6,714.0             | 17.1           | 22.3        | 14.68                 | -267.2                            | -1,101.2   | 637.6                | 605.7                 | 31.90                  | 19.988 SF                 |  |         |
| 6,900.0  | 6,860.5             | 6,856.7             | 6,762.7             | 17.2           | 22.5        | -29.25                | -269.5                            | -1,109.9   | 640.4                | 608.5                 | 31.94                  | 20.052                    |  |         |
| 6,950.0  | 6,909.9             | 6,905.6             | 6,810.9             | 17.2           | 22.7        | -46.86                | -271.7                            | -1,118.4   | 641.9                | 610.1                 | 31.76                  | 20.210                    |  |         |
| 7,000.0  | 6,958.4             | 6,959.8             | 6,864.1             | 17.2           | 22.9        | -55.66                | -274.5                            | -1,127.8   | 642.2                | 610.8                 | 31.38                  | 20.467                    |  |         |
| 7,050.0  | 7,005.8             | 7,020.4             | 6,923.2             | 17.1           | 23.1        | -62.19                | -282.7                            | -1,138.5   | 640.8                | 610.0                 | 30.76                  | 20.828                    |  |         |
| 7,100.0  | 7,051.7             | 7,071.5             | 6,972.1             | 17.1           | 23.4        | -67.61                | -294.6                            | -1,147.5   | 638.4                | 608.4                 | 30.06                  | 21.239                    |  |         |
| 7,150.0  | 7,095.8             | 7,112.6             | 7,010.5             | 17.0           | 23.6        | -72.13                | -307.3                            | -1,154.6   | 636.5                | 607.1                 | 29.39                  | 21.657                    |  |         |
| 7,188.3  | 7,128.0             | 7,137.6             | 7,033.4             | 16.9           | 23.7        | -74.93                | -316.4                            | -1,159.0   | 635.9                | 606.9                 | 28.95                  | 21.965                    |  |         |
| 7,200.0  | 7,137.6             | 7,144.3             | 7,039.4             | 16.9           | 23.7        | -75.68                | -318.9                            | -1,160.1   | 635.9                | 607.1                 | 28.83                  | 22.058                    |  |         |
| 7,250.0  | 7,176.9             | 7,167.7             | 7,060.4             | 16.8           | 23.8        | -78.23                | -328.6                            | -1,164.1   | 637.8                | 609.4                 | 28.42                  | 22.442                    |  |         |
| 7,300.0  | 7,213.4             | 7,184.2             | 7,074.9             | 16.7           | 23.9        | -79.80                | -336.0                            | -1,166.9   | 642.5                | 614.4                 | 28.14                  | 22.835                    |  |         |
| 7,350.0  | 7,246.8             | 7,194.9             | 7,084.1             | 16.6           | 24.0        | -80.43                | -340.9                            | -1,168.7   | 650.5                | 622.5                 | 27.96                  | 23.261                    |  |         |
| 7,400.0  | 7,276.9             | 7,200.0             | 7,088.6             | 16.5           | 24.0        | -80.12                | -343.4                            | -1,169.6   | 661.8                | 633.9                 | 27.87                  | 23.745                    |  |         |
| 7,450.0  | 7,303.4             | 7,200.0             | 7,088.6             | 16.4           | 24.0        | -78.92                | -343.4                            | -1,169.6   | 676.3                | 648.5                 | 27.81                  | 24.319                    |  |         |
| 7,500.0  | 7,326.1             | 7,200.0             | 7,088.6             | 16.4           | 24.0        | -77.31                | -343.4                            | -1,169.6   | 693.7                | 666.0                 | 27.73                  | 25.018                    |  |         |
| 7,550.0  | 7,344.8             | 7,200.0             | 7,088.6             | 16.4           | 24.0        | -75.34                | -343.4                            | -1,169.6   | 713.7                | 686.1                 | 27.61                  | 25.851                    |  |         |
| 7,600.0  | 7,359.5             | 7,200.0             | 7,088.6             | 16.4           | 24.0        | -73.04                | -343.4                            | -1,169.6   | 735.9                | 708.4                 | 27.43                  | 26.826                    |  |         |
| 7,650.0  | 7,370.0             | 7,183.4             | 7,074.2             | 16.5           | 23.9        | -69.11                | -335.6                            | -1,166.8   | 759.6                | 732.6                 | 27.03                  | 28.102                    |  |         |
| 7,700.0  | 7,376.1             | 7,173.8             | 7,065.8             | 16.6           | 23.9        | -65.64                | -331.3                            | -1,165.2   | 784.7                | 758.1                 | 26.59                  | 29.509                    |  |         |
| 7,746.2  | 7,378.0             | 7,163.8             | 7,056.9             | 16.8           | 23.8        | -62.29                | -326.9                            | -1,163.5   | 808.7                | 782.6                 | 26.14                  | 30.942                    |  |         |
| 7,800.0  | 7,378.0             | 7,150.0             | 7,044.6             | 17.0           | 23.7        | -61.30                | -321.2                            | -1,161.1   | 838.0                | 811.8                 | 26.19                  | 31.993                    |  |         |
| 7,900.0  | 7,378.0             | 7,132.7             | 7,028.9             | 17.5           | 23.7        | -60.06                | -314.5                            | -1,158.1   | 897.8                | 871.3                 | 26.53                  | 33.841                    |  |         |
| 8,000.0  | 7,378.0             | 7,116.2             | 7,013.8             | 18.2           | 23.6        | -58.87                | -308.5                            | -1,155.3   | 963.7                | 936.7                 | 27.00                  | 35.691                    |  |         |
| 8,100.0  | 7,378.0             | 7,100.0             | 6,998.8             | 19.0           | 23.5        | -57.71                | -303.1                            | -1,152.4   | 1,034.4              | 1,006.9               | 27.57                  | 37.521                    |  |         |
| 8,200.0  | 7,378.0             | 7,100.0             | 6,998.8             | 20.0           | 23.5        | -57.71                | -303.1                            | -1,152.4   | 1,109.4              | 1,081.0               | 28.47                  | 38.967                    |  |         |
| 8,300.0  | 7,378.0             | 7,078.3             | 6,978.5             | 21.0           | 23.4        | -56.18                | -296.5                            | -1,148.6   | 1,187.6              | 1,158.5               | 29.10                  | 40.812                    |  |         |
| 8,400.0  | 7,378.0             | 7,068.6             | 6,969.3             | 22.2           | 23.3        | -55.49                | -293.8                            | -1,146.9   | 1,268.7              | 1,238.8               | 29.96                  | 42.344                    |  |         |
| 8,500.0  | 7,378.0             | 7,050.0             | 6,951.6             | 23.4           | 23.3        | -54.20                | -289.1                            | -1,143.7   | 1,352.3              | 1,321.6               | 30.70                  | 44.055                    |  |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3D-32H-K268 - Hz - Plan #2 |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | 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                       | 0.0                       | 0.0                       | 0.0               | 0.0            | -90.00                      | 0.0                                     | -69.9         | 70.0                       |                             |                              |                      |                    |        |
| 100.0  | 100.0                     | 99.0                      | 99.0                      | 0.2               | 0.2            | -90.00                      | 0.0                                     | -69.9         | 69.9                       | 69.6                        | 0.30                         | 231.471              |                    |        |
| 200.0  | 200.0                     | 199.0                     | 199.0                     | 0.3               | 0.3            | -90.00                      | 0.0                                     | -69.9         | 69.9                       | 69.3                        | 0.65                         | 107.439              |                    |        |
| 300.0  | 300.0                     | 299.0                     | 299.0                     | 0.5               | 0.5            | -90.00                      | 0.0                                     | -69.9         | 69.9                       | 68.9                        | 1.00                         | 69.938               |                    |        |
| 400.0  | 400.0                     | 399.0                     | 399.0                     | 0.7               | 0.7            | -90.00                      | 0.0                                     | -69.9         | 69.9                       | 68.6                        | 1.35                         | 51.843               |                    |        |
| 450.0  | 450.0                     | 449.0                     | 449.0                     | 0.8               | 0.8            | -90.00                      | 0.0                                     | -69.9         | 69.9                       | 68.4                        | 1.52                         | 45.905               |                    |        |
| 500.0  | 500.0                     | 499.0                     | 499.0                     | 0.9               | 0.8            | 43.46                       | 0.0                                     | -69.9         | 69.8                       | 68.1                        | 1.70                         | 41.094               |                    |        |
| 600.0  | 600.0                     | 597.8                     | 597.8                     | 1.0               | 1.0            | 44.55                       | 0.1                                     | -70.8         | 69.4                       | 67.3                        | 2.05                         | 33.908               |                    |        |
| 631.9  | 631.8                     | 629.3                     | 629.3                     | 1.1               | 1.1            | 45.15                       | 0.2                                     | -71.4         | 69.3                       | 67.2                        | 2.16                         | 32.144 CC            |                    |        |
| 700.0  | 699.9                     | 696.6                     | 696.5                     | 1.2               | 1.2            | 46.83                       | 0.5                                     | -73.3         | 69.5                       | 67.1                        | 2.40                         | 29.006 ES            |                    |        |
| 800.0  | 799.8                     | 795.3                     | 795.2                     | 1.4               | 1.4            | 50.23                       | 1.2                                     | -77.5         | 70.3                       | 67.5                        | 2.75                         | 25.562               |                    |        |
| 900.0  | 899.5                     | 893.9                     | 893.6                     | 1.6               | 1.6            | 54.61                       | 2.1                                     | -83.3         | 72.1                       | 68.9                        | 3.11                         | 23.139               |                    |        |
| 1,000.0  | 999.2                     | 992.4                     | 991.8                     | 1.8               | 1.8            | 59.71                       | 3.3                                     | -90.8         | 75.0                       | 71.6                        | 3.49                         | 21.478               |                    |        |
| 1,108.4  | 1,106.9                   | 1,098.9                   | 1,097.8                   | 2.1               | 2.0            | 65.70                       | 4.9                                     | -100.8        | 80.0                       | 76.1                        | 3.93                         | 20.336               |                    |        |
| 1,200.0  | 1,197.9                   | 1,189.3                   | 1,187.7                   | 2.3               | 2.2            | 70.47                       | 6.5                                     | -110.7        | 85.9                       | 81.6                        | 4.32                         | 19.865               |                    |        |
| 1,300.0  | 1,297.3                   | 1,288.8                   | 1,286.5                   | 2.5               | 2.4            | 74.93                       | 8.3                                     | -121.9        | 93.1                       | 88.4                        | 4.76                         | 19.553               |                    |        |
| 1,400.0  | 1,396.6                   | 1,388.3                   | 1,385.4                   | 2.8               | 2.7            | 78.73                       | 10.1                                    | -133.0        | 100.9                      | 95.7                        | 5.22                         | 19.341               |                    |        |
| 1,500.0  | 1,496.0                   | 1,487.8                   | 1,484.2                   | 3.0               | 2.9            | 81.98                       | 11.9                                    | -144.2        | 109.0                      | 103.4                       | 5.68                         | 19.198               |                    |        |
| 1,600.0  | 1,595.3                   | 1,587.3                   | 1,583.1                   | 3.3               | 3.2            | 84.77                       | 13.7                                    | -155.3        | 117.5                      | 111.3                       | 6.15                         | 19.102               |                    |        |
| 1,700.0  | 1,694.7                   | 1,686.8                   | 1,681.9                   | 3.5               | 3.4            | 87.18                       | 15.5                                    | -166.5        | 126.1                      | 119.5                       | 6.63                         | 19.038               |                    |        |
| 1,800.0  | 1,794.0                   | 1,786.3                   | 1,780.8                   | 3.8               | 3.7            | 89.28                       | 17.2                                    | -177.6        | 135.0                      | 127.9                       | 7.11                         | 18.999               |                    |        |
| 1,900.0  | 1,893.3                   | 1,885.8                   | 1,879.6                   | 4.0               | 3.9            | 91.12                       | 19.0                                    | -188.8        | 144.0                      | 136.5                       | 7.59                         | 18.977               |                    |        |
| 2,000.0  | 1,992.7                   | 1,985.3                   | 1,978.5                   | 4.3               | 4.2            | 92.74                       | 20.8                                    | -200.0        | 153.2                      | 145.1                       | 8.08                         | 18.967               |                    |        |
| 2,100.0  | 2,092.0                   | 2,084.8                   | 2,077.3                   | 4.6               | 4.5            | 94.18                       | 22.6                                    | -211.1        | 162.5                      | 153.9                       | 8.57                         | 18.965               |                    |        |
| 2,200.0  | 2,191.4                   | 2,184.3                   | 2,176.2                   | 4.8               | 4.7            | 95.46                       | 24.4                                    | -222.3        | 171.8                      | 162.8                       | 9.06                         | 18.971               |                    |        |
| 2,300.0  | 2,290.7                   | 2,283.8                   | 2,275.0                   | 5.1               | 5.0            | 96.61                       | 26.2                                    | -233.4        | 181.3                      | 171.7                       | 9.55                         | 18.981               |                    |        |
| 2,400.0  | 2,390.0                   | 2,383.2                   | 2,373.9                   | 5.3               | 5.2            | 97.65                       | 28.0                                    | -244.6        | 190.7                      | 180.7                       | 10.04                        | 18.995               |                    |        |
| 2,500.0  | 2,489.4                   | 2,482.7                   | 2,472.7                   | 5.6               | 5.5            | 98.59                       | 29.8                                    | -255.7        | 200.3                      | 189.8                       | 10.54                        | 19.011               |                    |        |
| 2,600.0  | 2,588.7                   | 2,582.2                   | 2,571.6                   | 5.9               | 5.7            | 99.44                       | 31.5                                    | -266.9        | 209.9                      | 198.9                       | 11.03                        | 19.028               |                    |        |
| 2,700.0  | 2,688.1                   | 2,681.7                   | 2,670.4                   | 6.1               | 6.0            | 100.21                      | 33.3                                    | -278.0        | 219.5                      | 208.0                       | 11.53                        | 19.047               |                    |        |
| 2,800.0  | 2,787.4                   | 2,781.2                   | 2,769.3                   | 6.4               | 6.3            | 100.93                      | 35.1                                    | -289.2        | 229.2                      | 217.2                       | 12.02                        | 19.067               |                    |        |
| 2,900.0  | 2,886.7                   | 2,880.7                   | 2,868.1                   | 6.7               | 6.5            | 101.58                      | 36.9                                    | -300.3        | 238.9                      | 226.4                       | 12.52                        | 19.087               |                    |        |
| 3,000.0  | 2,986.1                   | 2,980.2                   | 2,967.0                   | 6.9               | 6.8            | 102.18                      | 38.7                                    | -311.5        | 248.7                      | 235.7                       | 13.02                        | 19.107               |                    |        |
| 3,100.0  | 3,085.4                   | 3,079.7                   | 3,065.8                   | 7.2               | 7.0            | 102.74                      | 40.5                                    | -322.6        | 258.4                      | 244.9                       | 13.51                        | 19.127               |                    |        |
| 3,200.0  | 3,184.8                   | 3,179.2                   | 3,164.7                   | 7.5               | 7.3            | 103.26                      | 42.3                                    | -333.8        | 268.2                      | 254.2                       | 14.01                        | 19.147               |                    |        |
| 3,300.0  | 3,284.1                   | 3,278.7                   | 3,263.5                   | 7.7               | 7.6            | 103.74                      | 44.1                                    | -345.0        | 278.0                      | 263.5                       | 14.51                        | 19.167               |                    |        |
| 3,400.0  | 3,383.4                   | 3,378.2                   | 3,362.4                   | 8.0               | 7.8            | 104.18                      | 45.8                                    | -356.1        | 287.9                      | 272.9                       | 15.00                        | 19.186               |                    |        |
| 3,500.0  | 3,482.8                   | 3,477.7                   | 3,461.2                   | 8.2               | 8.1            | 104.60                      | 47.6                                    | -367.3        | 297.7                      | 282.2                       | 15.50                        | 19.205               |                    |        |
| 3,600.0  | 3,582.1                   | 3,577.1                   | 3,560.1                   | 8.5               | 8.4            | 104.99                      | 49.4                                    | -378.4        | 307.6                      | 291.6                       | 16.00                        | 19.223               |                    |        |
| 3,700.0  | 3,681.5                   | 3,676.6                   | 3,658.9                   | 8.8               | 8.6            | 105.36                      | 51.2                                    | -389.6        | 317.4                      | 300.9                       | 16.50                        | 19.242               |                    |        |
| 3,800.0  | 3,780.8                   | 3,776.1                   | 3,757.8                   | 9.0               | 8.9            | 105.70                      | 53.0                                    | -400.7        | 327.3                      | 310.3                       | 17.00                        | 19.259               |                    |        |
| 3,900.0  | 3,880.1                   | 3,875.6                   | 3,856.6                   | 9.3               | 9.1            | 106.03                      | 54.8                                    | -411.9        | 337.2                      | 319.7                       | 17.49                        | 19.276               |                    |        |
| 4,000.0  | 3,979.5                   | 3,975.1                   | 3,955.5                   | 9.6               | 9.4            | 106.34                      | 56.6                                    | -423.0        | 347.1                      | 329.1                       | 17.99                        | 19.293               |                    |        |
| 4,100.0  | 4,078.8                   | 4,074.6                   | 4,054.3                   | 9.8               | 9.7            | 106.62                      | 58.3                                    | -434.2        | 357.0                      | 338.5                       | 18.49                        | 19.309               |                    |        |
| 4,200.0  | 4,178.2                   | 4,174.1                   | 4,153.2                   | 10.1              | 9.9            | 106.90                      | 60.1                                    | -445.3        | 367.0                      | 348.0                       | 18.99                        | 19.325               |                    |        |
| 4,300.0  | 4,277.5                   | 4,273.6                   | 4,252.0                   | 10.4              | 10.2           | 107.16                      | 61.9                                    | -456.5        | 376.9                      | 357.4                       | 19.49                        | 19.340               |                    |        |
| 4,400.0  | 4,376.8                   | 4,373.1                   | 4,350.8                   | 10.6              | 10.5           | 107.40                      | 63.7                                    | -467.6        | 386.8                      | 366.8                       | 19.99                        | 19.355               |                    |        |
| 4,500.0  | 4,476.2                   | 4,472.6                   | 4,449.7                   | 10.9              | 10.7           | 107.64                      | 65.5                                    | -478.8        | 396.8                      | 376.3                       | 20.48                        | 19.370               |                    |        |
| 4,600.0  | 4,575.5                   | 4,572.1                   | 4,548.5                   | 11.2              | 11.0           | 107.86                      | 67.3                                    | -490.0        | 406.7                      | 385.7                       | 20.98                        | 19.384               |                    |        |
| 4,700.0  | 4,674.9                   | 4,671.6                   | 4,647.4                   | 11.4              | 11.2           | 108.07                      | 69.1                                    | -501.1        | 416.7                      | 395.2                       | 21.48                        | 19.397               |                    |        |
| 4,800.0  | 4,774.2                   | 4,771.1                   | 4,746.2                   | 11.7              | 11.5           | 108.27                      | 70.9                                    | -512.3        | 426.6                      | 404.6                       | 21.98                        | 19.411               |                    |        |
| 4,900.0  | 4,873.5                   | 4,870.5                   | 4,845.1                   | 12.0              | 11.8           | 108.46                      | 72.6                                    | -523.4        | 436.6                      | 414.1                       | 22.48                        | 19.423               |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3D-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Site Error: 0.0 ft |                   |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|-------------------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Well Error: 0.0 ft |                   |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        | Warning                   |                   |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis |                           | Separation Factor |
| 5,000.0  | 4,972.9             | 4,970.0             | 4,943.9             | 12.2            | 12.0        | 108.65                | 74.4                              | -534.6     | 446.6                | 423.6                 | 22.98                  | 19.436                    |                   |
| 5,100.0  | 5,072.2             | 5,069.5             | 5,042.8             | 12.5            | 12.3        | 108.82                | 76.2                              | -545.7     | 456.5                | 433.1                 | 23.47                  | 19.448                    |                   |
| 5,200.0  | 5,171.6             | 5,169.0             | 5,141.6             | 12.7            | 12.6        | 108.99                | 78.0                              | -556.9     | 466.5                | 442.5                 | 23.97                  | 19.460                    |                   |
| 5,300.0  | 5,270.9             | 5,268.5             | 5,240.5             | 13.0            | 12.8        | 109.15                | 79.8                              | -568.0     | 476.5                | 452.0                 | 24.47                  | 19.471                    |                   |
| 5,400.0  | 5,370.3             | 5,368.0             | 5,339.3             | 13.3            | 13.1        | 109.31                | 81.6                              | -579.2     | 486.5                | 461.5                 | 24.97                  | 19.482                    |                   |
| 5,500.0  | 5,469.6             | 5,467.5             | 5,438.2             | 13.5            | 13.3        | 109.46                | 83.4                              | -590.3     | 496.5                | 471.0                 | 25.47                  | 19.493                    |                   |
| 5,600.0  | 5,568.9             | 5,567.0             | 5,537.0             | 13.8            | 13.6        | 109.60                | 85.1                              | -601.5     | 506.5                | 480.5                 | 25.97                  | 19.503                    |                   |
| 5,700.0  | 5,668.3             | 5,666.5             | 5,635.9             | 14.1            | 13.9        | 109.74                | 86.9                              | -612.6     | 516.5                | 490.0                 | 26.47                  | 19.514                    |                   |
| 5,800.0  | 5,767.6             | 5,766.0             | 5,734.7             | 14.3            | 14.1        | 109.87                | 88.7                              | -623.8     | 526.5                | 499.5                 | 26.97                  | 19.524                    |                   |
| 5,900.0  | 5,867.0             | 5,865.5             | 5,833.6             | 14.6            | 14.4        | 109.99                | 90.5                              | -635.0     | 536.5                | 509.0                 | 27.46                  | 19.533                    |                   |
| 6,000.0  | 5,966.3             | 5,965.0             | 5,932.4             | 14.9            | 14.7        | 110.12                | 92.3                              | -646.1     | 546.5                | 518.5                 | 27.96                  | 19.543                    |                   |
| 6,100.0  | 6,065.6             | 6,064.4             | 6,031.3             | 15.1            | 14.9        | 110.23                | 94.1                              | -657.3     | 556.5                | 528.0                 | 28.46                  | 19.552                    |                   |
| 6,200.0  | 6,165.0             | 6,163.9             | 6,130.1             | 15.4            | 15.2        | 110.35                | 95.9                              | -668.4     | 566.5                | 537.5                 | 28.96                  | 19.561                    |                   |
| 6,300.0  | 6,264.3             | 6,263.4             | 6,229.0             | 15.7            | 15.4        | 110.46                | 97.7                              | -679.6     | 576.5                | 547.0                 | 29.46                  | 19.569                    |                   |
| 6,400.0  | 6,363.7             | 6,362.9             | 6,327.8             | 15.9            | 15.7        | 110.56                | 99.4                              | -690.7     | 586.5                | 556.5                 | 29.96                  | 19.578                    |                   |
| 6,500.0  | 6,463.0             | 6,462.4             | 6,426.7             | 16.2            | 16.0        | 110.67                | 101.2                             | -701.9     | 596.5                | 566.1                 | 30.46                  | 19.586                    |                   |
| 6,600.0  | 6,562.3             | 6,561.9             | 6,525.5             | 16.5            | 16.2        | 110.76                | 103.0                             | -713.0     | 606.5                | 575.6                 | 30.96                  | 19.594                    |                   |
| 6,700.0  | 6,661.7             | 6,661.4             | 6,624.4             | 16.7            | 16.5        | 110.86                | 104.8                             | -724.2     | 616.6                | 585.1                 | 31.45                  | 19.602                    |                   |
| 6,801.1  | 6,762.1             | 6,762.0             | 6,724.3             | 17.0            | 16.8        | 110.95                | 106.6                             | -735.5     | 626.7                | 594.7                 | 31.96                  | 19.609                    |                   |
| 6,850.0  | 6,810.8             | 6,810.8             | 6,772.8             | 17.1            | 16.9        | 63.42                 | 107.5                             | -740.9     | 629.7                | 597.5                 | 32.20                  | 19.552                    |                   |
| 6,900.0  | 6,860.5             | 6,860.7             | 6,822.4             | 17.2            | 17.0        | 19.54                 | 108.4                             | -746.5     | 628.7                | 596.4                 | 32.26                  | 19.491                    |                   |
| 6,950.0  | 6,909.9             | 6,910.3             | 6,871.7             | 17.2            | 17.2        | 2.15                  | 109.3                             | -752.1     | 623.7                | 591.6                 | 32.11                  | 19.426                    |                   |
| 7,000.0  | 6,958.4             | 6,959.2             | 6,920.3             | 17.2            | 17.3        | -6.13                 | 110.2                             | -757.6     | 614.8                | 583.1                 | 31.76                  | 19.359                    |                   |
| 7,050.0  | 7,005.8             | 7,007.0             | 6,967.8             | 17.1            | 17.4        | -11.36                | 111.0                             | -762.9     | 602.1                | 570.9                 | 31.22                  | 19.286                    |                   |
| 7,100.0  | 7,051.7             | 7,053.4             | 7,013.8             | 17.1            | 17.5        | -15.47                | 111.8                             | -768.1     | 585.7                | 555.2                 | 30.50                  | 19.203                    |                   |
| 7,150.0  | 7,095.8             | 7,357.3             | 7,304.8             | 17.0            | 18.2        | -34.20                | 44.1                              | -799.7     | 558.0                | 527.8                 | 30.11                  | 18.532                    |                   |
| 7,200.0  | 7,137.6             | 7,479.7             | 7,405.2             | 16.9            | 18.5        | -57.64                | -24.8                             | -809.8     | 517.1                | 488.4                 | 28.79                  | 17.963                    |                   |
| 7,250.0  | 7,176.9             | 7,515.2             | 7,431.4             | 16.8            | 18.6        | -73.30                | -48.7                             | -812.3     | 474.8                | 447.2                 | 27.62                  | 17.193                    |                   |
| 7,300.0  | 7,213.4             | 7,522.6             | 7,436.6             | 16.7            | 18.6        | -82.97                | -53.8                             | -812.8     | 433.4                | 406.5                 | 26.89                  | 16.115                    |                   |
| 7,350.0  | 7,246.8             | 7,517.6             | 7,433.1             | 16.6            | 18.6        | -88.80                | -50.3                             | -812.5     | 393.9                | 367.5                 | 26.46                  | 14.885                    |                   |
| 7,400.0  | 7,276.9             | 7,506.3             | 7,424.9             | 16.5            | 18.5        | -92.05                | -42.5                             | -811.7     | 357.3                | 331.0                 | 26.21                  | 13.632                    |                   |
| 7,450.0  | 7,303.4             | 7,491.2             | 7,413.8             | 16.4            | 18.5        | -93.42                | -32.3                             | -810.6     | 324.3                | 298.2                 | 26.07                  | 12.438                    |                   |
| 7,500.0  | 7,326.1             | 7,473.8             | 7,400.7             | 16.4            | 18.5        | -93.29                | -21.0                             | -809.3     | 296.2                | 270.2                 | 26.04                  | 11.374                    |                   |
| 7,550.0  | 7,344.8             | 7,454.8             | 7,385.9             | 16.4            | 18.4        | -91.87                | -9.0                              | -807.9     | 274.1                | 248.0                 | 26.08                  | 10.509                    |                   |
| 7,600.0  | 7,359.5             | 7,434.6             | 7,369.9             | 16.4            | 18.4        | -89.31                | 3.1                               | -806.3     | 259.2                | 233.0                 | 26.18                  | 9.900                     |                   |
| 7,650.0  | 7,370.0             | 7,413.6             | 7,352.8             | 16.5            | 18.3        | -85.72                | 15.1                              | -804.6     | 252.3                | 226.0                 | 26.28                  | 9.599                     |                   |
| 7,667.3  | 7,372.6             | 7,406.2             | 7,346.6             | 16.5            | 18.3        | -84.25                | 19.2                              | -804.0     | 251.8                | 225.5                 | 26.32                  | 9.568 SF                  |                   |
| 7,700.0  | 7,376.1             | 7,392.0             | 7,334.7             | 16.6            | 18.3        | -81.22                | 26.8                              | -802.8     | 253.5                | 227.1                 | 26.35                  | 9.621                     |                   |
| 7,746.2  | 7,378.0             | 7,371.7             | 7,317.3             | 16.8            | 18.2        | -76.41                | 37.2                              | -801.0     | 261.2                | 234.9                 | 26.34                  | 9.916                     |                   |
| 7,800.0  | 7,378.0             | 7,350.0             | 7,298.3             | 17.0            | 18.2        | -72.21                | 47.5                              | -799.0     | 277.5                | 251.2                 | 26.34                  | 10.537                    |                   |
| 7,900.0  | 7,378.0             | 7,315.3             | 7,267.3             | 17.5            | 18.1        | -65.60                | 62.6                              | -795.8     | 325.7                | 299.4                 | 26.33                  | 12.369                    |                   |
| 8,000.0  | 7,378.0             | 7,288.4             | 7,242.6             | 18.2            | 18.1        | -60.68                | 72.9                              | -793.2     | 390.8                | 364.3                 | 26.45                  | 14.775                    |                   |
| 8,100.0  | 7,378.0             | 7,266.7             | 7,222.4             | 19.0            | 18.0        | -56.89                | 80.4                              | -791.1     | 466.4                | 439.7                 | 26.69                  | 17.477                    |                   |
| 8,200.0  | 7,378.0             | 7,250.0             | 7,206.6             | 20.0            | 18.0        | -54.10                | 85.7                              | -789.4     | 548.7                | 521.6                 | 27.07                  | 20.268                    |                   |
| 8,300.0  | 7,378.0             | 7,234.1             | 7,191.4             | 21.0            | 17.9        | -51.56                | 90.3                              | -787.7     | 635.3                | 607.8                 | 27.49                  | 23.113                    |                   |
| 8,400.0  | 7,378.0             | 7,221.5             | 7,179.3             | 22.2            | 17.9        | -49.64                | 93.6                              | -786.4     | 724.9                | 696.9                 | 28.01                  | 25.876                    |                   |
| 8,500.0  | 7,378.0             | 7,200.0             | 7,158.6             | 23.4            | 17.9        | -46.51                | 98.6                              | -784.2     | 816.7                | 788.5                 | 28.20                  | 28.958                    |                   |
| 8,600.0  | 7,378.0             | 7,200.0             | 7,158.6             | 24.7            | 17.9        | -46.51                | 98.6                              | -784.2     | 909.6                | 880.5                 | 29.19                  | 31.167                    |                   |
| 8,700.0  | 7,378.0             | 7,200.0             | 7,158.6             | 26.0            | 17.9        | -46.51                | 98.6                              | -784.2     | 1,004.0              | 973.8                 | 30.20                  | 33.238                    |                   |
| 8,800.0  | 7,378.0             | 7,200.0             | 7,158.6             | 27.4            | 17.9        | -46.51                | 98.6                              | -784.2     | 1,099.3              | 1,068.0               | 31.25                  | 35.173                    |                   |
| 8,900.0  | 7,378.0             | 7,179.8             | 7,138.9             | 28.8            | 17.8        | -43.78                | 102.6                             | -782.0     | 1,194.9              | 1,163.5               | 31.38                  | 38.073                    |                   |
| 9,000.0  | 7,378.0             | 7,174.1             | 7,133.3             | 30.3            | 17.8        | -43.04                | 103.6                             | -781.4     | 1,291.2              | 1,259.1               | 32.15                  | 40.161                    |                   |

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

## Cathedral Energy Services

### Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3E-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | 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         | -93.73                | -3.7                              | -56.0      | 56.1                 |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | -93.73                | -3.7                              | -56.0      | 56.1                 | 55.8                  | 0.30                   | 184.643           |                           |         |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -93.73                | -3.7                              | -56.0      | 56.1                 | 55.4                  | 0.65                   | 85.903            |                           |         |
| 300.0  | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -93.73                | -3.7                              | -56.0      | 56.1                 | 55.1                  | 1.00                   | 55.972            |                           |         |
| 400.0  | 400.0               | 400.0               | 400.0               | 0.7             | 0.7         | -93.73                | -3.7                              | -56.0      | 56.1                 | 54.7                  | 1.35                   | 41.509            |                           |         |
| 450.0  | 450.0               | 450.0               | 450.0               | 0.8             | 0.8         | -93.73                | -3.7                              | -56.0      | 56.1                 | 54.5                  | 1.53                   | 36.760            |                           |         |
| 500.0  | 500.0               | 500.0               | 500.0               | 0.9             | 0.8         | 39.75                 | -3.7                              | -56.0      | 55.9                 | 54.2                  | 1.70                   | 32.887            |                           |         |
| 600.0  | 600.0               | 600.0               | 600.0               | 1.0             | 1.0         | 40.93                 | -3.7                              | -56.0      | 54.6                 | 52.5                  | 2.05                   | 26.631            |                           |         |
| 700.0  | 699.9               | 699.1               | 699.1               | 1.2             | 1.2         | 43.78                 | -3.3                              | -56.8      | 52.8                 | 50.4                  | 2.40                   | 22.004            |                           |         |
| 800.0  | 799.8               | 798.1               | 798.1               | 1.4             | 1.4         | 48.81                 | -2.4                              | -59.1      | 51.6                 | 48.9                  | 2.75                   | 18.745            |                           |         |
| 854.9  | 854.6               | 852.5               | 852.4               | 1.5             | 1.5         | 52.47                 | -1.6                              | -61.1      | 51.4                 | 48.5                  | 2.95                   | 17.405 CC         |                           |         |
| 900.0  | 899.5               | 897.1               | 897.0               | 1.6             | 1.6         | 55.92                 | -0.8                              | -63.1      | 51.6                 | 48.5                  | 3.12                   | 16.528 ES         |                           |         |
| 1,000.0  | 999.2               | 996.8               | 996.5               | 1.8             | 1.7         | 64.70                 | 1.0                               | -67.8      | 52.3                 | 48.8                  | 3.51                   | 14.910            |                           |         |
| 1,108.4  | 1,106.9             | 1,104.6             | 1,104.2             | 2.1             | 1.9         | 75.70                 | 3.0                               | -72.8      | 53.9                 | 49.9                  | 3.95                   | 13.623            |                           |         |
| 1,200.0  | 1,197.9             | 1,195.8             | 1,195.3             | 2.3             | 2.1         | 85.14                 | 4.7                               | -77.1      | 56.6                 | 52.2                  | 4.34                   | 13.025            |                           |         |
| 1,300.0  | 1,297.3             | 1,295.2             | 1,294.6             | 2.5             | 2.3         | 94.23                 | 6.6                               | -81.7      | 61.1                 | 56.4                  | 4.77                   | 12.813            |                           |         |
| 1,400.0  | 1,396.6             | 1,394.7             | 1,393.9             | 2.8             | 2.5         | 101.90                | 8.4                               | -86.4      | 67.0                 | 61.8                  | 5.19                   | 12.901            |                           |         |
| 1,500.0  | 1,496.0             | 1,494.2             | 1,493.3             | 3.0             | 2.7         | 108.26                | 10.3                              | -91.0      | 73.9                 | 68.3                  | 5.61                   | 13.171            |                           |         |
| 1,600.0  | 1,595.3             | 1,593.6             | 1,592.6             | 3.3             | 2.9         | 113.48                | 12.1                              | -95.7      | 81.5                 | 75.5                  | 6.02                   | 13.542            |                           |         |
| 1,700.0  | 1,694.7             | 1,693.1             | 1,691.9             | 3.5             | 3.1         | 117.79                | 14.0                              | -100.3     | 89.7                 | 83.2                  | 6.42                   | 13.965            |                           |         |
| 1,800.0  | 1,794.0             | 1,792.5             | 1,791.3             | 3.8             | 3.3         | 121.37                | 15.8                              | -105.0     | 98.2                 | 91.4                  | 6.82                   | 14.407            |                           |         |
| 1,900.0  | 1,893.3             | 1,892.0             | 1,890.6             | 4.0             | 3.4         | 124.36                | 17.7                              | -109.6     | 107.2                | 99.9                  | 7.22                   | 14.851            |                           |         |
| 2,000.0  | 1,992.7             | 1,991.5             | 1,989.9             | 4.3             | 3.6         | 126.88                | 19.5                              | -114.3     | 116.3                | 108.7                 | 7.61                   | 15.285            |                           |         |
| 2,100.0  | 2,092.0             | 2,090.9             | 2,089.3             | 4.6             | 3.8         | 129.04                | 21.4                              | -118.9     | 125.7                | 117.7                 | 8.00                   | 15.703            |                           |         |
| 2,200.0  | 2,191.4             | 2,190.4             | 2,188.6             | 4.8             | 4.0         | 130.90                | 23.2                              | -123.6     | 135.2                | 126.8                 | 8.39                   | 16.102            |                           |         |
| 2,300.0  | 2,290.7             | 2,289.8             | 2,287.9             | 5.1             | 4.2         | 132.51                | 25.1                              | -128.2     | 144.8                | 136.0                 | 8.79                   | 16.481            |                           |         |
| 2,400.0  | 2,390.0             | 2,389.3             | 2,387.3             | 5.3             | 4.4         | 133.92                | 26.9                              | -132.9     | 154.5                | 145.4                 | 9.18                   | 16.840            |                           |         |
| 2,500.0  | 2,489.4             | 2,488.7             | 2,486.6             | 5.6             | 4.6         | 135.16                | 28.8                              | -137.5     | 164.3                | 154.8                 | 9.57                   | 17.178            |                           |         |
| 2,600.0  | 2,588.7             | 2,588.2             | 2,585.9             | 5.9             | 4.8         | 136.26                | 30.6                              | -142.2     | 174.2                | 164.3                 | 9.96                   | 17.498            |                           |         |
| 2,700.0  | 2,688.1             | 2,687.7             | 2,685.3             | 6.1             | 5.0         | 137.24                | 32.5                              | -146.8     | 184.1                | 173.8                 | 10.35                  | 17.799            |                           |         |
| 2,800.0  | 2,787.4             | 2,787.1             | 2,784.6             | 6.4             | 5.2         | 138.12                | 34.3                              | -151.5     | 194.1                | 183.4                 | 10.74                  | 18.083            |                           |         |
| 2,900.0  | 2,886.7             | 2,886.6             | 2,883.9             | 6.7             | 5.4         | 138.92                | 36.2                              | -156.1     | 204.1                | 193.0                 | 11.12                  | 18.351            |                           |         |
| 3,000.0  | 2,986.1             | 2,986.0             | 2,983.3             | 6.9             | 5.6         | 139.64                | 38.0                              | -160.8     | 214.2                | 202.7                 | 11.51                  | 18.604            |                           |         |
| 3,100.0  | 3,085.4             | 3,085.5             | 3,082.6             | 7.2             | 5.8         | 140.30                | 39.9                              | -165.4     | 224.3                | 212.4                 | 11.90                  | 18.844            |                           |         |
| 3,200.0  | 3,184.8             | 3,185.0             | 3,181.9             | 7.5             | 6.0         | 140.90                | 41.7                              | -170.1     | 234.4                | 222.1                 | 12.29                  | 19.070            |                           |         |
| 3,300.0  | 3,284.1             | 3,284.4             | 3,281.3             | 7.7             | 6.1         | 141.45                | 43.6                              | -174.8     | 244.5                | 231.9                 | 12.68                  | 19.285            |                           |         |
| 3,400.0  | 3,383.4             | 3,383.9             | 3,380.6             | 8.0             | 6.3         | 141.96                | 45.4                              | -179.4     | 254.7                | 241.6                 | 13.07                  | 19.488            |                           |         |
| 3,500.0  | 3,482.8             | 3,483.3             | 3,479.9             | 8.2             | 6.5         | 142.42                | 47.3                              | -184.1     | 264.9                | 251.4                 | 13.46                  | 19.681            |                           |         |
| 3,600.0  | 3,582.1             | 3,582.8             | 3,579.3             | 8.5             | 6.7         | 142.86                | 49.1                              | -188.7     | 275.1                | 261.2                 | 13.85                  | 19.864            |                           |         |
| 3,700.0  | 3,681.5             | 3,682.3             | 3,678.6             | 8.8             | 6.9         | 143.26                | 51.0                              | -193.4     | 285.3                | 271.0                 | 14.24                  | 20.039            |                           |         |
| 3,800.0  | 3,780.8             | 3,781.7             | 3,777.9             | 9.0             | 7.1         | 143.63                | 52.8                              | -198.0     | 295.5                | 280.9                 | 14.63                  | 20.205            |                           |         |
| 3,900.0  | 3,880.1             | 3,881.2             | 3,877.3             | 9.3             | 7.3         | 143.98                | 54.7                              | -202.7     | 305.7                | 290.7                 | 15.01                  | 20.363            |                           |         |
| 4,000.0  | 3,979.5             | 3,980.6             | 3,976.6             | 9.6             | 7.5         | 144.31                | 56.5                              | -207.3     | 316.0                | 300.6                 | 15.40                  | 20.514            |                           |         |
| 4,100.0  | 4,078.8             | 4,080.1             | 4,075.9             | 9.8             | 7.7         | 144.62                | 58.3                              | -212.0     | 326.2                | 310.4                 | 15.79                  | 20.658            |                           |         |
| 4,200.0  | 4,178.2             | 4,179.5             | 4,175.3             | 10.1            | 7.9         | 144.90                | 60.2                              | -216.6     | 336.5                | 320.3                 | 16.18                  | 20.795            |                           |         |
| 4,300.0  | 4,277.5             | 4,279.0             | 4,274.6             | 10.4            | 8.1         | 145.17                | 62.0                              | -221.3     | 346.8                | 330.2                 | 16.57                  | 20.927            |                           |         |
| 4,400.0  | 4,376.8             | 4,378.5             | 4,373.9             | 10.6            | 8.3         | 145.43                | 63.9                              | -225.9     | 357.0                | 340.1                 | 16.96                  | 21.053            |                           |         |
| 4,500.0  | 4,476.2             | 4,477.9             | 4,473.2             | 10.9            | 8.5         | 145.67                | 65.7                              | -230.6     | 367.3                | 350.0                 | 17.35                  | 21.174            |                           |         |
| 4,600.0  | 4,575.5             | 4,577.4             | 4,572.6             | 11.2            | 8.7         | 145.90                | 67.6                              | -235.2     | 377.6                | 359.9                 | 17.74                  | 21.289            |                           |         |
| 4,700.0  | 4,674.9             | 4,676.8             | 4,671.9             | 11.4            | 8.9         | 146.11                | 69.4                              | -239.9     | 387.9                | 369.8                 | 18.13                  | 21.400            |                           |         |
| 4,800.0  | 4,774.2             | 4,776.3             | 4,771.2             | 11.7            | 9.1         | 146.32                | 71.3                              | -244.5     | 398.2                | 379.7                 | 18.51                  | 21.507            |                           |         |
| 4,900.0  | 4,873.5             | 4,875.8             | 4,870.6             | 12.0            | 9.2         | 146.51                | 73.1                              | -249.2     | 408.5                | 389.6                 | 18.90                  | 21.610            |                           |         |

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



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3E-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Site Error: 0.0 ft |                   |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|-------------------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Well Error: 0.0 ft |                   |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        | Warning                   |                   |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis |                           | Separation Factor |
| 5,000.0  | 4,972.9             | 4,975.2             | 4,969.9             | 12.2            | 9.4         | 146.70                | 75.0                              | -253.8     | 418.8                | 399.5                 | 19.29                  | 21.708                    |                   |
| 5,100.0  | 5,072.2             | 5,074.7             | 5,069.2             | 12.5            | 9.6         | 146.87                | 76.8                              | -258.5     | 429.1                | 409.4                 | 19.68                  | 21.803                    |                   |
| 5,200.0  | 5,171.6             | 5,174.1             | 5,168.6             | 12.7            | 9.8         | 147.04                | 78.7                              | -263.1     | 439.4                | 419.4                 | 20.07                  | 21.894                    |                   |
| 5,300.0  | 5,270.9             | 5,273.6             | 5,267.9             | 13.0            | 10.0        | 147.20                | 80.5                              | -267.8     | 449.8                | 429.3                 | 20.46                  | 21.983                    |                   |
| 5,400.0  | 5,370.3             | 5,373.0             | 5,367.2             | 13.3            | 10.2        | 147.35                | 82.4                              | -272.4     | 460.1                | 439.2                 | 20.85                  | 22.068                    |                   |
| 5,500.0  | 5,469.6             | 5,472.5             | 5,466.6             | 13.5            | 10.4        | 147.50                | 84.2                              | -277.1     | 470.4                | 449.2                 | 21.24                  | 22.149                    |                   |
| 5,600.0  | 5,568.9             | 5,572.0             | 5,565.9             | 13.8            | 10.6        | 147.64                | 86.1                              | -281.7     | 480.7                | 459.1                 | 21.63                  | 22.229                    |                   |
| 5,700.0  | 5,668.3             | 5,671.4             | 5,665.2             | 14.1            | 10.8        | 147.77                | 87.9                              | -286.4     | 491.1                | 469.1                 | 22.02                  | 22.305                    |                   |
| 5,800.0  | 5,767.6             | 5,770.9             | 5,764.6             | 14.3            | 11.0        | 147.90                | 89.8                              | -291.0     | 501.4                | 479.0                 | 22.41                  | 22.379                    |                   |
| 5,900.0  | 5,867.0             | 5,870.3             | 5,863.9             | 14.6            | 11.2        | 148.02                | 91.6                              | -295.7     | 511.7                | 488.9                 | 22.79                  | 22.451                    |                   |
| 6,000.0  | 5,966.3             | 5,969.8             | 5,963.2             | 14.9            | 11.4        | 148.14                | 93.5                              | -300.3     | 522.1                | 498.9                 | 23.18                  | 22.520                    |                   |
| 6,100.0  | 6,065.6             | 6,069.3             | 6,062.6             | 15.1            | 11.6        | 148.25                | 95.3                              | -305.0     | 532.4                | 508.9                 | 23.57                  | 22.587                    |                   |
| 6,200.0  | 6,165.0             | 6,168.7             | 6,161.9             | 15.4            | 11.8        | 148.36                | 97.2                              | -309.6     | 542.8                | 518.8                 | 23.96                  | 22.652                    |                   |
| 6,300.0  | 6,264.3             | 6,268.2             | 6,261.2             | 15.7            | 12.0        | 148.47                | 99.0                              | -314.3     | 553.1                | 528.8                 | 24.35                  | 22.715                    |                   |
| 6,400.0  | 6,363.7             | 6,367.6             | 6,360.6             | 15.9            | 12.2        | 148.57                | 100.9                             | -318.9     | 563.5                | 538.7                 | 24.74                  | 22.776                    |                   |
| 6,500.0  | 6,463.0             | 6,467.1             | 6,459.9             | 16.2            | 12.4        | 148.67                | 102.7                             | -323.6     | 573.8                | 548.7                 | 25.13                  | 22.835                    |                   |
| 6,600.0  | 6,562.3             | 6,566.5             | 6,559.2             | 16.5            | 12.5        | 148.76                | 104.6                             | -328.2     | 584.2                | 558.6                 | 25.52                  | 22.892                    |                   |
| 6,700.0  | 6,661.7             | 6,666.0             | 6,658.6             | 16.7            | 12.7        | 148.85                | 106.4                             | -332.9     | 594.5                | 568.6                 | 25.91                  | 22.948                    |                   |
| 6,801.1  | 6,762.1             | 6,766.6             | 6,759.0             | 17.0            | 12.9        | 148.94                | 108.3                             | -337.6     | 605.0                | 578.7                 | 26.30                  | 23.003                    |                   |
| 6,850.0  | 6,810.8             | 7,725.0             | 7,378.0             | 17.1            | 16.9        | 176.65                | -475.6                            | -366.6     | 584.2                | 553.4                 | 30.70                  | 19.025                    |                   |
| 6,900.0  | 6,860.5             | 7,722.5             | 7,378.0             | 17.2            | 16.9        | 146.05                | -473.1                            | -366.6     | 537.1                | 504.8                 | 32.28                  | 16.637                    |                   |
| 6,950.0  | 6,909.9             | 7,715.7             | 7,378.0             | 17.2            | 16.8        | 138.65                | -466.3                            | -366.6     | 491.0                | 458.1                 | 32.90                  | 14.923                    |                   |
| 7,000.0  | 6,958.4             | 7,682.1             | 7,377.2             | 17.2            | 16.5        | 132.22                | -432.7                            | -366.5     | 446.1                | 413.7                 | 32.39                  | 13.773                    |                   |
| 7,050.0  | 7,005.8             | 7,647.3             | 7,374.2             | 17.1            | 16.1        | 127.84                | -398.1                            | -366.4     | 402.3                | 370.6                 | 31.71                  | 12.686                    |                   |
| 7,100.0  | 7,051.7             | 7,616.2             | 7,369.8             | 17.1            | 15.9        | 124.87                | -367.3                            | -366.2     | 360.1                | 329.1                 | 31.02                  | 11.608                    |                   |
| 7,150.0  | 7,095.8             | 7,587.0             | 7,364.2             | 17.0            | 15.6        | 122.15                | -338.7                            | -365.9     | 320.0                | 289.7                 | 30.30                  | 10.563                    |                   |
| 7,200.0  | 7,137.6             | 7,559.0             | 7,357.4             | 16.9            | 15.4        | 119.15                | -311.4                            | -365.6     | 282.8                | 253.2                 | 29.55                  | 9.568                     |                   |
| 7,250.0  | 7,176.9             | 7,531.6             | 7,349.5             | 16.8            | 15.2        | 115.58                | -285.2                            | -365.3     | 249.4                | 220.5                 | 28.83                  | 8.648                     |                   |
| 7,300.0  | 7,213.4             | 7,504.7             | 7,340.5             | 16.7            | 15.0        | 111.23                | -259.9                            | -364.8     | 221.1                | 193.0                 | 28.17                  | 7.851                     |                   |
| 7,350.0  | 7,246.8             | 7,478.2             | 7,330.5             | 16.6            | 14.8        | 106.00                | -235.4                            | -364.4     | 199.8                | 172.3                 | 27.59                  | 7.243                     |                   |
| 7,400.0  | 7,276.9             | 7,451.9             | 7,319.5             | 16.5            | 14.6        | 99.84                 | -211.5                            | -363.8     | 187.2                | 160.1                 | 27.10                  | 6.909                     |                   |
| 7,439.2  | 7,298.0             | 7,431.5             | 7,310.2             | 16.4            | 14.5        | 94.41                 | -193.3                            | -363.4     | 184.2                | 157.4                 | 26.76                  | 6.882 SF                  |                   |
| 7,450.0  | 7,303.4             | 7,425.9             | 7,307.5             | 16.4            | 14.5        | 92.83                 | -188.4                            | -363.3     | 184.4                | 157.7                 | 26.67                  | 6.915                     |                   |
| 7,500.0  | 7,326.1             | 7,400.0             | 7,294.5             | 16.4            | 14.3        | 85.23                 | -166.0                            | -362.7     | 191.1                | 164.9                 | 26.19                  | 7.295                     |                   |
| 7,550.0  | 7,344.8             | 7,374.1             | 7,280.6             | 16.4            | 14.2        | 77.31                 | -144.2                            | -362.0     | 205.6                | 180.0                 | 25.61                  | 8.030                     |                   |
| 7,600.0  | 7,359.5             | 7,350.0             | 7,266.8             | 16.4            | 14.1        | 69.88                 | -124.5                            | -361.4     | 225.9                | 201.0                 | 24.89                  | 9.075                     |                   |
| 7,650.0  | 7,370.0             | 7,322.8             | 7,250.1             | 16.5            | 14.0        | 62.30                 | -102.9                            | -360.6     | 249.7                | 225.8                 | 23.95                  | 10.426                    |                   |
| 7,700.0  | 7,376.1             | 7,300.0             | 7,235.4             | 16.6            | 13.9        | 56.19                 | -85.5                             | -359.9     | 275.7                | 252.7                 | 23.06                  | 11.956                    |                   |
| 7,746.2  | 7,378.0             | 7,273.6             | 7,217.6             | 16.8            | 13.8        | 50.53                 | -66.1                             | -359.1     | 300.7                | 278.5                 | 22.15                  | 13.573                    |                   |
| 7,800.0  | 7,378.0             | 7,250.0             | 7,200.9             | 17.0            | 13.7        | 47.84                 | -49.5                             | -358.3     | 331.4                | 309.6                 | 21.84                  | 15.177                    |                   |
| 7,900.0  | 7,378.0             | 7,200.0             | 7,163.3             | 17.5            | 13.6        | 42.59                 | -16.6                             | -356.5     | 395.8                | 374.6                 | 21.26                  | 18.620                    |                   |
| 8,000.0  | 7,378.0             | 7,168.5             | 7,138.2             | 18.2            | 13.6        | 39.62                 | 2.4                               | -355.4     | 467.4                | 446.2                 | 21.20                  | 22.049                    |                   |
| 8,100.0  | 7,378.0             | 7,137.8             | 7,112.7             | 19.0            | 13.5        | 36.98                 | 19.6                              | -354.2     | 544.4                | 523.2                 | 21.23                  | 25.645                    |                   |
| 8,200.0  | 7,378.0             | 7,100.0             | 7,080.3             | 20.0            | 13.4        | 34.05                 | 38.8                              | -352.6     | 625.8                | 604.6                 | 21.19                  | 29.531                    |                   |
| 8,300.0  | 7,378.0             | 7,100.0             | 7,080.3             | 21.0            | 13.4        | 34.05                 | 38.8                              | -352.6     | 709.9                | 688.1                 | 21.86                  | 32.473                    |                   |
| 8,400.0  | 7,378.0             | 7,069.1             | 7,052.8             | 22.2            | 13.4        | 31.92                 | 52.9                              | -351.4     | 796.4                | 774.4                 | 21.99                  | 36.217                    |                   |
| 8,500.0  | 7,378.0             | 7,050.0             | 7,035.4             | 23.4            | 13.4        | 30.69                 | 60.8                              | -350.5     | 885.0                | 862.6                 | 22.34                  | 39.617                    |                   |
| 8,600.0  | 7,378.0             | 7,050.0             | 7,035.4             | 24.7            | 13.4        | 30.69                 | 60.8                              | -350.5     | 975.3                | 952.2                 | 23.04                  | 42.325                    |                   |
| 8,700.0  | 7,378.0             | 7,023.4             | 7,010.8             | 26.0            | 13.3        | 29.11                 | 71.0                              | -349.4     | 1,066.4              | 1,043.2               | 23.25                  | 45.865                    |                   |
| 8,800.0  | 7,378.0             | 7,000.0             | 6,988.9             | 27.4            | 13.3        | 27.84                 | 78.9                              | -348.4     | 1,159.0              | 1,135.4               | 23.52                  | 49.280                    |                   |
| 8,900.0  | 7,378.0             | 7,000.0             | 6,988.9             | 28.8            | 13.3        | 27.84                 | 78.9                              | -348.4     | 1,252.1              | 1,227.8               | 24.22                  | 51.704                    |                   |
| 9,000.0  | 7,378.0             | 7,000.0             | 6,988.9             | 30.3            | 13.3        | 27.84                 | 78.9                              | -348.4     | 1,346.1              | 1,321.2               | 24.93                  | 54.006                    |                   |

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

## Cathedral Energy Services

### Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3F-32H-K268 - Hz - Plan #2 |                           |                           |                           |                   |                |                             |   |               |                              |                      |         |          | 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            | -90.01                      | 0.0                                     | -50.4         | 50.4                         |                      |         |          |                    |        |
| 100.0  | 100.0                     | 100.0                     | 100.0                     | 0.2               | 0.2            | -90.01                      | 0.0                                     | -50.4         | 50.4                         | 50.1                 | 0.30    | 165.826  |                    |        |
| 200.0  | 200.0                     | 200.0                     | 200.0                     | 0.3               | 0.3            | -90.01                      | 0.0                                     | -50.4         | 50.4                         | 49.7                 | 0.65    | 77.149   |                    |        |
| 300.0  | 300.0                     | 300.0                     | 300.0                     | 0.5               | 0.5            | -90.01                      | 0.0                                     | -50.4         | 50.4                         | 49.4                 | 1.00    | 50.268   |                    |        |
| 400.0  | 400.0                     | 400.0                     | 400.0                     | 0.7               | 0.7            | -90.01                      | 0.0                                     | -50.4         | 50.4                         | 49.0                 | 1.35    | 37.279   |                    |        |
| 450.0  | 450.0                     | 450.0                     | 450.0                     | 0.8               | 0.8            | -90.01                      | 0.0                                     | -50.4         | 50.4                         | 48.8                 | 1.53    | 33.013   |                    |        |
| 500.0  | 500.0                     | 500.0                     | 500.0                     | 0.9               | 0.8            | 43.50                       | 0.0                                     | -50.4         | 50.2                         | 48.5                 | 1.70    | 29.531   |                    |        |
| 600.0  | 600.0                     | 600.0                     | 600.0                     | 1.0               | 1.0            | 44.92                       | 0.0                                     | -50.4         | 48.9                         | 46.9                 | 2.05    | 23.884   |                    |        |
| 700.0  | 699.9                     | 699.9                     | 699.9                     | 1.2               | 1.2            | 47.97                       | 0.0                                     | -50.4         | 46.5                         | 44.1                 | 2.40    | 19.383   |                    |        |
| 800.0  | 799.8                     | 799.8                     | 799.8                     | 1.4               | 1.4            | 53.15                       | 0.0                                     | -50.4         | 43.2                         | 40.5                 | 2.76    | 15.664   |                    |        |
| 900.0  | 899.5                     | 899.5                     | 899.5                     | 1.6               | 1.5            | 61.31                       | 0.0                                     | -50.4         | 39.4                         | 36.3                 | 3.13    | 12.600   |                    |        |
| 1,000.0  | 999.2                     | 999.2                     | 999.2                     | 1.8               | 1.7            | 73.54                       | 0.0                                     | -50.4         | 36.0                         | 32.5                 | 3.52    | 10.241   |                    |        |
| 1,098.2  | 1,096.8                   | 1,096.8                   | 1,096.8                   | 2.0               | 1.9            | 89.99                       | 0.0                                     | -50.4         | 34.6                         | 30.6                 | 3.92    | 8.805 CC |                    |        |
| 1,108.4  | 1,106.9                   | 1,106.9                   | 1,106.9                   | 2.1               | 1.9            | 91.89                       | 0.0                                     | -50.4         | 34.6                         | 30.6                 | 3.97    | 8.718 ES |                    |        |
| 1,200.0  | 1,197.9                   | 1,197.9                   | 1,197.9                   | 2.3               | 2.1            | 108.53                      | 0.0                                     | -50.4         | 36.5                         | 32.1                 | 4.32    | 8.436 SF |                    |        |
| 1,300.0  | 1,297.3                   | 1,297.3                   | 1,297.3                   | 2.5               | 2.2            | 123.61                      | 0.0                                     | -50.4         | 41.6                         | 36.9                 | 4.68    | 8.889    |                    |        |
| 1,400.0  | 1,396.6                   | 1,396.6                   | 1,396.6                   | 2.8               | 2.4            | 134.84                      | 0.0                                     | -50.4         | 48.9                         | 43.9                 | 5.01    | 9.759    |                    |        |
| 1,500.0  | 1,496.0                   | 1,496.0                   | 1,496.0                   | 3.0               | 2.6            | 142.93                      | 0.0                                     | -50.4         | 57.6                         | 52.2                 | 5.34    | 10.788   |                    |        |
| 1,600.0  | 1,595.3                   | 1,595.3                   | 1,595.3                   | 3.3               | 2.8            | 148.84                      | 0.0                                     | -50.4         | 67.1                         | 61.4                 | 5.66    | 11.845   |                    |        |
| 1,700.0  | 1,694.7                   | 1,694.7                   | 1,694.7                   | 3.5               | 2.9            | 153.24                      | 0.0                                     | -50.4         | 77.2                         | 71.2                 | 6.00    | 12.868   |                    |        |
| 1,800.0  | 1,794.0                   | 1,794.0                   | 1,794.0                   | 3.8               | 3.1            | 156.62                      | 0.0                                     | -50.4         | 87.6                         | 81.2                 | 6.33    | 13.833   |                    |        |
| 1,900.0  | 1,893.3                   | 1,893.3                   | 1,893.3                   | 4.0               | 3.3            | 159.27                      | 0.0                                     | -50.4         | 98.2                         | 91.5                 | 6.67    | 14.732   |                    |        |
| 2,000.0  | 1,992.7                   | 1,992.7                   | 1,992.7                   | 4.3               | 3.5            | 161.40                      | 0.0                                     | -50.4         | 109.0                        | 102.0                | 7.00    | 15.564   |                    |        |
| 2,100.0  | 2,092.0                   | 2,092.0                   | 2,092.0                   | 4.6               | 3.6            | 163.15                      | 0.0                                     | -50.4         | 119.9                        | 112.6                | 7.34    | 16.333   |                    |        |
| 2,200.0  | 2,191.4                   | 2,191.4                   | 2,191.4                   | 4.8               | 3.8            | 164.60                      | 0.0                                     | -50.4         | 131.0                        | 123.3                | 7.68    | 17.043   |                    |        |
| 2,300.0  | 2,290.7                   | 2,290.7                   | 2,290.7                   | 5.1               | 4.0            | 165.83                      | 0.0                                     | -50.4         | 142.0                        | 134.0                | 8.03    | 17.700   |                    |        |
| 2,400.0  | 2,390.0                   | 2,390.0                   | 2,390.0                   | 5.3               | 4.1            | 166.88                      | 0.0                                     | -50.4         | 153.2                        | 144.8                | 8.37    | 18.307   |                    |        |
| 2,500.0  | 2,489.4                   | 2,489.4                   | 2,489.4                   | 5.6               | 4.3            | 167.79                      | 0.0                                     | -50.4         | 164.4                        | 155.7                | 8.71    | 18.871   |                    |        |
| 2,600.0  | 2,588.7                   | 2,588.7                   | 2,588.7                   | 5.9               | 4.5            | 168.58                      | 0.0                                     | -50.4         | 175.6                        | 166.5                | 9.05    | 19.395   |                    |        |
| 2,700.0  | 2,688.1                   | 2,688.1                   | 2,688.1                   | 6.1               | 4.7            | 169.27                      | 0.0                                     | -50.4         | 186.9                        | 177.5                | 9.40    | 19.882   |                    |        |
| 2,800.0  | 2,787.4                   | 2,787.4                   | 2,787.4                   | 6.4               | 4.8            | 169.89                      | 0.0                                     | -50.4         | 198.1                        | 188.4                | 9.74    | 20.337   |                    |        |
| 2,900.0  | 2,886.7                   | 2,886.7                   | 2,886.7                   | 6.7               | 5.0            | 170.44                      | 0.0                                     | -50.4         | 209.4                        | 199.3                | 10.09   | 20.762   |                    |        |
| 3,000.0  | 2,986.1                   | 2,986.1                   | 2,986.1                   | 6.9               | 5.2            | 170.94                      | 0.0                                     | -50.4         | 220.8                        | 210.3                | 10.43   | 21.160   |                    |        |
| 3,100.0  | 3,085.4                   | 3,085.4                   | 3,085.4                   | 7.2               | 5.4            | 171.38                      | 0.0                                     | -50.4         | 232.1                        | 221.3                | 10.78   | 21.534   |                    |        |
| 3,200.0  | 3,184.8                   | 3,184.8                   | 3,184.8                   | 7.5               | 5.5            | 171.79                      | 0.0                                     | -50.4         | 243.4                        | 232.3                | 11.12   | 21.885   |                    |        |
| 3,300.0  | 3,284.1                   | 3,284.1                   | 3,284.1                   | 7.7               | 5.7            | 172.15                      | 0.0                                     | -50.4         | 254.8                        | 243.3                | 11.47   | 22.216   |                    |        |
| 3,400.0  | 3,383.4                   | 3,383.4                   | 3,383.4                   | 8.0               | 5.9            | 172.49                      | 0.0                                     | -50.4         | 266.1                        | 254.3                | 11.81   | 22.527   |                    |        |
| 3,500.0  | 3,482.8                   | 3,482.8                   | 3,482.8                   | 8.2               | 6.1            | 172.80                      | 0.0                                     | -50.4         | 277.5                        | 265.4                | 12.16   | 22.822   |                    |        |
| 3,600.0  | 3,582.1                   | 3,582.1                   | 3,582.1                   | 8.5               | 6.2            | 173.09                      | 0.0                                     | -50.4         | 288.9                        | 276.4                | 12.51   | 23.100   |                    |        |
| 3,700.0  | 3,681.5                   | 3,681.5                   | 3,681.5                   | 8.8               | 6.4            | 173.35                      | 0.0                                     | -50.4         | 300.3                        | 287.4                | 12.85   | 23.364   |                    |        |
| 3,800.0  | 3,780.8                   | 3,780.8                   | 3,780.8                   | 9.0               | 6.6            | 173.59                      | 0.0                                     | -50.4         | 311.7                        | 298.5                | 13.20   | 23.615   |                    |        |
| 3,900.0  | 3,880.1                   | 3,880.1                   | 3,880.1                   | 9.3               | 6.7            | 173.82                      | 0.0                                     | -50.4         | 323.1                        | 309.5                | 13.54   | 23.852   |                    |        |
| 4,000.0  | 3,979.5                   | 3,979.5                   | 3,979.5                   | 9.6               | 6.9            | 174.03                      | 0.0                                     | -50.4         | 334.5                        | 320.6                | 13.89   | 24.078   |                    |        |
| 4,100.0  | 4,078.8                   | 4,074.9                   | 4,074.9                   | 9.8               | 7.1            | 174.18                      | 0.5                                     | -50.3         | 346.3                        | 332.1                | 14.23   | 24.335   |                    |        |
| 4,200.0  | 4,178.2                   | 4,169.1                   | 4,169.1                   | 10.1              | 7.3            | 174.19                      | 2.4                                     | -49.9         | 359.5                        | 345.0                | 14.57   | 24.676   |                    |        |
| 4,300.0  | 4,277.5                   | 4,266.7                   | 4,266.6                   | 10.4              | 7.4            | 174.11                      | 5.7                                     | -49.4         | 373.8                        | 358.9                | 14.92   | 25.057   |                    |        |
| 4,400.0  | 4,376.8                   | 4,365.7                   | 4,365.5                   | 10.6              | 7.6            | 174.02                      | 9.0                                     | -48.8         | 388.1                        | 372.8                | 15.27   | 25.421   |                    |        |
| 4,500.0  | 4,476.2                   | 4,464.6                   | 4,464.5                   | 10.9              | 7.8            | 173.94                      | 12.3                                    | -48.2         | 402.4                        | 386.8                | 15.62   | 25.768   |                    |        |
| 4,600.0  | 4,575.5                   | 4,563.6                   | 4,563.4                   | 11.2              | 7.9            | 173.87                      | 15.6                                    | -47.6         | 416.7                        | 400.7                | 15.96   | 26.100   |                    |        |
| 4,700.0  | 4,674.9                   | 4,662.6                   | 4,662.3                   | 11.4              | 8.1            | 173.80                      | 18.9                                    | -47.1         | 431.0                        | 414.6                | 16.31   | 26.417   |                    |        |
| 4,800.0  | 4,774.2                   | 4,761.6                   | 4,761.2                   | 11.7              | 8.3            | 173.74                      | 22.2                                    | -46.5         | 445.3                        | 428.6                | 16.66   | 26.722   |                    |        |
| 4,900.0  | 4,873.5                   | 4,860.5                   | 4,860.1                   | 12.0              | 8.5            | 173.68                      | 25.5                                    | -45.9         | 459.6                        | 442.5                | 17.01   | 27.013   |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3F-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |  |
| 5,000.0  | 4,972.9             | 4,959.5             | 4,959.0             | 12.2            | 8.7         | 173.63                | 28.8                              | -45.3      | 473.9                | 456.5                 | 17.36                  | 27.293            |                           |  |
| 5,100.0  | 5,072.2             | 5,058.5             | 5,057.9             | 12.5            | 8.8         | 173.58                | 32.1                              | -44.7      | 488.1                | 470.4                 | 17.71                  | 27.562            |                           |  |
| 5,200.0  | 5,171.6             | 5,157.4             | 5,156.9             | 12.7            | 9.0         | 173.53                | 35.4                              | -44.2      | 502.4                | 484.4                 | 18.06                  | 27.820            |                           |  |
| 5,300.0  | 5,270.9             | 5,256.4             | 5,255.8             | 13.0            | 9.2         | 173.48                | 38.7                              | -43.6      | 516.7                | 498.3                 | 18.41                  | 28.068            |                           |  |
| 5,400.0  | 5,370.3             | 5,355.4             | 5,354.7             | 13.3            | 9.4         | 173.44                | 42.0                              | -43.0      | 531.0                | 512.3                 | 18.76                  | 28.307            |                           |  |
| 5,500.0  | 5,469.6             | 5,454.4             | 5,453.6             | 13.5            | 9.5         | 173.39                | 45.3                              | -42.4      | 545.3                | 526.2                 | 19.11                  | 28.537            |                           |  |
| 5,600.0  | 5,568.9             | 5,553.3             | 5,552.5             | 13.8            | 9.7         | 173.35                | 48.7                              | -41.8      | 559.6                | 540.2                 | 19.46                  | 28.759            |                           |  |
| 5,700.0  | 5,668.3             | 5,652.3             | 5,651.4             | 14.1            | 9.9         | 173.32                | 52.0                              | -41.3      | 573.9                | 554.1                 | 19.81                  | 28.973            |                           |  |
| 5,800.0  | 5,767.6             | 5,751.3             | 5,750.3             | 14.3            | 10.1        | 173.28                | 55.3                              | -40.7      | 588.2                | 568.1                 | 20.16                  | 29.180            |                           |  |
| 5,900.0  | 5,867.0             | 5,850.2             | 5,849.3             | 14.6            | 10.2        | 173.25                | 58.6                              | -40.1      | 602.5                | 582.0                 | 20.51                  | 29.379            |                           |  |
| 6,000.0  | 5,966.3             | 5,949.2             | 5,948.2             | 14.9            | 10.4        | 173.21                | 61.9                              | -39.5      | 616.8                | 596.0                 | 20.86                  | 29.572            |                           |  |
| 6,100.0  | 6,065.6             | 6,048.2             | 6,047.1             | 15.1            | 10.6        | 173.18                | 65.2                              | -38.9      | 631.1                | 609.9                 | 21.21                  | 29.758            |                           |  |
| 6,200.0  | 6,165.0             | 6,147.2             | 6,146.0             | 15.4            | 10.8        | 173.15                | 68.5                              | -38.4      | 645.4                | 623.9                 | 21.56                  | 29.938            |                           |  |
| 6,300.0  | 6,264.3             | 6,246.1             | 6,244.9             | 15.7            | 11.0        | 173.13                | 71.8                              | -37.8      | 659.7                | 637.8                 | 21.91                  | 30.113            |                           |  |
| 6,400.0  | 6,363.7             | 6,345.1             | 6,343.8             | 15.9            | 11.1        | 173.10                | 75.1                              | -37.2      | 674.0                | 651.8                 | 22.26                  | 30.281            |                           |  |
| 6,500.0  | 6,463.0             | 6,444.1             | 6,442.7             | 16.2            | 11.3        | 173.07                | 78.4                              | -36.6      | 688.3                | 665.7                 | 22.61                  | 30.445            |                           |  |
| 6,600.0  | 6,562.3             | 6,543.0             | 6,541.7             | 16.5            | 11.5        | 173.05                | 81.7                              | -36.1      | 702.6                | 679.7                 | 22.96                  | 30.604            |                           |  |
| 6,700.0  | 6,661.7             | 6,642.0             | 6,640.6             | 16.7            | 11.7        | 173.02                | 85.0                              | -35.5      | 716.9                | 693.6                 | 23.31                  | 30.757            |                           |  |
| 6,801.1  | 6,762.1             | 6,742.1             | 6,740.6             | 17.0            | 11.9        | 173.00                | 88.4                              | -34.9      | 731.4                | 707.7                 | 23.66                  | 30.908            |                           |  |
| 6,850.0  | 6,810.8             | 6,790.7             | 6,789.1             | 17.1            | 11.9        | 125.13                | 90.0                              | -34.6      | 736.8                | 712.9                 | 23.88                  | 30.851            |                           |  |
| 6,900.0  | 6,860.5             | 6,840.4             | 6,838.9             | 17.2            | 12.0        | 81.62                 | 91.7                              | -34.3      | 739.0                | 715.0                 | 24.03                  | 30.760            |                           |  |
| 6,950.0  | 6,909.9             | 6,889.9             | 6,888.4             | 17.2            | 12.1        | 65.34                 | 93.3                              | -34.0      | 737.9                | 713.9                 | 24.09                  | 30.630            |                           |  |
| 7,000.0  | 6,958.4             | 6,938.8             | 6,937.2             | 17.2            | 12.2        | 58.93                 | 95.0                              | -33.7      | 733.6                | 709.5                 | 24.09                  | 30.448            |                           |  |
| 7,050.0  | 7,005.8             | 6,986.7             | 6,985.0             | 17.1            | 12.3        | 56.37                 | 96.6                              | -33.5      | 726.2                | 702.2                 | 24.05                  | 30.191            |                           |  |
| 7,100.0  | 7,051.7             | 7,182.8             | 7,179.5             | 17.1            | 12.6        | 61.63                 | 78.8                              | -32.1      | 714.1                | 689.7                 | 24.39                  | 29.281            |                           |  |
| 7,150.0  | 7,095.8             | 7,393.4             | 7,368.7             | 17.0            | 12.9        | 76.84                 | -10.8                             | -30.2      | 688.3                | 662.7                 | 25.55                  | 26.940            |                           |  |
| 7,200.0  | 7,137.6             | 7,462.5             | 7,422.2             | 16.9            | 13.1        | 85.68                 | -54.5                             | -29.5      | 659.3                | 633.0                 | 26.33                  | 25.043            |                           |  |
| 7,250.0  | 7,176.9             | 7,485.5             | 7,438.7             | 16.8            | 13.1        | 90.56                 | -70.5                             | -29.2      | 631.3                | 604.7                 | 26.64                  | 23.698            |                           |  |
| 7,300.0  | 7,213.4             | 7,489.3             | 7,441.4             | 16.7            | 13.2        | 93.30                 | -73.2                             | -29.2      | 605.6                | 579.0                 | 26.69                  | 22.693            |                           |  |
| 7,350.0  | 7,246.8             | 7,483.5             | 7,437.4             | 16.6            | 13.1        | 94.73                 | -69.1                             | -29.2      | 582.9                | 556.3                 | 26.60                  | 21.909            |                           |  |
| 7,400.0  | 7,276.9             | 7,472.3             | 7,429.3             | 16.5            | 13.1        | 95.23                 | -61.2                             | -29.4      | 563.4                | 536.9                 | 26.46                  | 21.289            |                           |  |
| 7,450.0  | 7,303.4             | 7,457.6             | 7,418.6             | 16.4            | 13.1        | 95.03                 | -51.2                             | -29.5      | 547.6                | 521.3                 | 26.32                  | 20.802            |                           |  |
| 7,500.0  | 7,326.1             | 7,440.7             | 7,405.9             | 16.4            | 13.0        | 94.24                 | -40.0                             | -29.7      | 535.6                | 509.4                 | 26.22                  | 20.430            |                           |  |
| 7,550.0  | 7,344.8             | 7,422.2             | 7,391.7             | 16.4            | 13.0        | 92.95                 | -28.2                             | -29.9      | 527.6                | 501.4                 | 26.16                  | 20.167            |                           |  |
| 7,600.0  | 7,359.5             | 7,402.6             | 7,376.2             | 16.4            | 12.9        | 91.22                 | -16.2                             | -30.1      | 523.5                | 497.3                 | 26.15                  | 20.017            |                           |  |
| 7,630.1  | 7,366.3             | 7,390.3             | 7,366.3             | 16.5            | 12.9        | 89.99                 | -9.0                              | -30.2      | 522.8                | 496.6                 | 26.17                  | 19.974            |                           |  |
| 7,650.0  | 7,370.0             | 7,382.1             | 7,359.6             | 16.5            | 12.9        | 89.12                 | -4.3                              | -30.3      | 523.1                | 496.9                 | 26.19                  | 19.975            |                           |  |
| 7,700.0  | 7,376.1             | 7,361.1             | 7,342.0             | 16.6            | 12.8        | 86.69                 | 7.4                               | -30.5      | 526.2                | 499.9                 | 26.24                  | 20.052            |                           |  |
| 7,746.2  | 7,378.0             | 7,341.1             | 7,325.0             | 16.8            | 12.8        | 84.22                 | 17.9                              | -30.7      | 531.8                | 505.5                 | 26.29                  | 20.229            |                           |  |
| 7,800.0  | 7,378.0             | 7,319.2             | 7,306.0             | 17.0            | 12.8        | 82.16                 | 28.7                              | -30.9      | 541.9                | 515.5                 | 26.43                  | 20.505            |                           |  |
| 7,900.0  | 7,378.0             | 7,285.4             | 7,275.8             | 17.5            | 12.7        | 78.93                 | 43.9                              | -31.2      | 571.4                | 544.6                 | 26.83                  | 21.298            |                           |  |
| 8,000.0  | 7,378.0             | 7,250.0             | 7,243.3             | 18.2            | 12.7        | 75.54                 | 57.9                              | -31.5      | 614.0                | 586.6                 | 27.32                  | 22.469            |                           |  |
| 8,100.0  | 7,378.0             | 7,236.4             | 7,230.5             | 19.0            | 12.6        | 74.23                 | 62.7                              | -31.7      | 667.3                | 639.2                 | 28.13                  | 23.723            |                           |  |
| 8,200.0  | 7,378.0             | 7,218.2             | 7,213.4             | 20.0            | 12.6        | 72.50                 | 68.7                              | -31.8      | 729.6                | 700.6                 | 28.97                  | 25.181            |                           |  |
| 8,300.0  | 7,378.0             | 7,200.0             | 7,196.0             | 21.0            | 12.6        | 70.78                 | 74.2                              | -32.0      | 798.9                | 769.1                 | 29.88                  | 26.738            |                           |  |
| 8,400.0  | 7,378.0             | 7,200.0             | 7,196.0             | 22.2            | 12.6        | 70.78                 | 74.2                              | -32.0      | 873.9                | 842.8                 | 31.09                  | 28.109            |                           |  |
| 8,500.0  | 7,378.0             | 7,178.8             | 7,175.6             | 23.4            | 12.6        | 68.80                 | 79.8                              | -32.1      | 952.9                | 920.8                 | 32.04                  | 29.744            |                           |  |
| 8,600.0  | 7,378.0             | 7,169.1             | 7,166.2             | 24.7            | 12.6        | 67.90                 | 82.2                              | -32.2      | 1,035.4              | 1,002.2               | 33.18                  | 31.204            |                           |  |
| 8,700.0  | 7,378.0             | 7,150.0             | 7,147.6             | 26.0            | 12.5        | 66.16                 | 86.3                              | -32.4      | 1,120.7              | 1,086.5               | 34.17                  | 32.795            |                           |  |
| 8,800.0  | 7,378.0             | 7,150.0             | 7,147.6             | 27.4            | 12.5        | 66.16                 | 86.3                              | -32.4      | 1,207.8              | 1,172.3               | 35.53                  | 33.993            |                           |  |
| 8,900.0  | 7,378.0             | 7,150.0             | 7,147.6             | 28.8            | 12.5        | 66.16                 | 86.3                              | -32.4      | 1,296.8              | 1,259.9               | 36.92                  | 35.124            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3G-32H-K268 - Hz - Plan #3 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | 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         | -94.66                | -3.6                              | -44.8      | 44.9                 |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | -94.66                | -3.6                              | -44.8      | 44.9                 | 44.6                  | 0.30                   | 147.889           |                           |         |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -94.66                | -3.6                              | -44.8      | 44.9                 | 44.3                  | 0.65                   | 68.804            |                           |         |
| 300.0  | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -94.66                | -3.6                              | -44.8      | 44.9                 | 43.9                  | 1.00                   | 44.831            |                           |         |
| 400.0  | 400.0               | 400.0               | 400.0               | 0.7             | 0.7         | -94.66                | -3.6                              | -44.8      | 44.9                 | 43.6                  | 1.35                   | 33.246            |                           |         |
| 450.0  | 450.0               | 450.0               | 450.0               | 0.8             | 0.8         | -94.66                | -3.6                              | -44.8      | 44.9                 | 43.4                  | 1.53                   | 29.443            |                           |         |
| 500.0  | 500.0               | 500.0               | 500.0               | 0.9             | 0.8         | 38.86                 | -3.6                              | -44.8      | 44.7                 | 43.0                  | 1.70                   | 26.320            |                           |         |
| 600.0  | 600.0               | 600.7               | 600.7               | 1.0             | 1.0         | 40.33                 | -3.6                              | -43.9      | 42.5                 | 40.5                  | 2.05                   | 20.734            |                           |         |
| 700.0  | 699.9               | 701.3               | 701.2               | 1.2             | 1.2         | 43.85                 | -3.5                              | -41.2      | 37.3                 | 34.9                  | 2.40                   | 15.519            |                           |         |
| 800.0  | 799.8               | 801.2               | 801.1               | 1.4             | 1.4         | 51.47                 | -3.2                              | -37.0      | 29.5                 | 26.8                  | 2.76                   | 10.700            |                           |         |
| 900.0  | 899.5               | 900.6               | 900.4               | 1.6             | 1.6         | 68.45                 | -3.0                              | -32.5      | 21.7                 | 18.5                  | 3.14                   | 6.900             |                           |         |
| 998.2  | 997.4               | 998.1               | 997.7               | 1.8             | 1.8         | 102.79                | -2.8                              | -28.1      | 17.7                 | 14.1                  | 3.54                   | 4.987 CC          |                           |         |
| 1,000.0  | 999.2               | 999.9               | 999.5               | 1.8             | 1.8         | 103.56                | -2.8                              | -28.0      | 17.7                 | 14.1                  | 3.55                   | 4.978 ES, SF      |                           |         |
| 1,108.4  | 1,106.9             | 1,107.1             | 1,106.7             | 2.1             | 2.0         | 143.73                | -2.5                              | -23.1      | 23.8                 | 19.9                  | 3.91                   | 6.094             |                           |         |
| 1,200.0  | 1,197.9             | 1,197.7             | 1,197.1             | 2.3             | 2.1         | 160.82                | -2.3                              | -19.0      | 34.8                 | 30.6                  | 4.19                   | 8.303             |                           |         |
| 1,300.0  | 1,297.3             | 1,296.5             | 1,295.9             | 2.5             | 2.3         | 169.91                | -2.1                              | -14.5      | 48.5                 | 44.0                  | 4.52                   | 10.735            |                           |         |
| 1,400.0  | 1,396.6             | 1,395.4             | 1,394.6             | 2.8             | 2.5         | 174.93                | -1.9                              | -10.0      | 63.0                 | 58.1                  | 4.86                   | 12.945            |                           |         |
| 1,500.0  | 1,496.0             | 1,494.2             | 1,493.4             | 3.0             | 2.7         | 178.07                | -1.6                              | -5.5       | 77.7                 | 72.5                  | 5.21                   | 14.909            |                           |         |
| 1,600.0  | 1,595.3             | 1,593.0             | 1,592.1             | 3.3             | 2.9         | -179.79               | -1.4                              | -1.0       | 92.5                 | 87.0                  | 5.56                   | 16.650            |                           |         |
| 1,700.0  | 1,694.7             | 1,691.9             | 1,690.8             | 3.5             | 3.1         | -178.25               | -1.2                              | 3.5        | 107.5                | 101.6                 | 5.91                   | 18.196            |                           |         |
| 1,800.0  | 1,794.0             | 1,790.7             | 1,789.6             | 3.8             | 3.2         | -177.08               | -0.9                              | 8.0        | 122.5                | 116.2                 | 6.26                   | 19.575            |                           |         |
| 1,900.0  | 1,893.3             | 1,889.6             | 1,888.3             | 4.0             | 3.4         | -176.17               | -0.7                              | 12.5       | 137.5                | 130.9                 | 6.61                   | 20.811            |                           |         |
| 2,000.0  | 1,992.7             | 1,988.4             | 1,987.0             | 4.3             | 3.6         | -175.44               | -0.5                              | 17.0       | 152.6                | 145.6                 | 6.96                   | 21.926            |                           |         |
| 2,100.0  | 2,092.0             | 2,087.2             | 2,085.8             | 4.6             | 3.8         | -174.84               | -0.2                              | 21.5       | 167.7                | 160.4                 | 7.31                   | 22.934            |                           |         |
| 2,200.0  | 2,191.4             | 2,186.1             | 2,184.5             | 4.8             | 4.0         | -174.34               | 0.0                               | 26.0       | 182.8                | 175.1                 | 7.66                   | 23.851            |                           |         |
| 2,300.0  | 2,290.7             | 2,284.9             | 2,283.3             | 5.1             | 4.2         | -173.92               | 0.2                               | 30.5       | 197.9                | 189.9                 | 8.02                   | 24.688            |                           |         |
| 2,400.0  | 2,390.0             | 2,383.8             | 2,382.0             | 5.3             | 4.4         | -173.55               | 0.5                               | 34.9       | 213.1                | 204.7                 | 8.37                   | 25.455            |                           |         |
| 2,500.0  | 2,489.4             | 2,482.6             | 2,480.7             | 5.6             | 4.6         | -173.24               | 0.7                               | 39.4       | 228.2                | 219.5                 | 8.72                   | 26.160            |                           |         |
| 2,600.0  | 2,588.7             | 2,581.4             | 2,579.5             | 5.9             | 4.8         | -172.96               | 0.9                               | 43.9       | 243.4                | 234.3                 | 9.08                   | 26.811            |                           |         |
| 2,700.0  | 2,688.1             | 2,680.3             | 2,678.2             | 6.1             | 4.9         | -172.71               | 1.1                               | 48.4       | 258.5                | 249.1                 | 9.43                   | 27.413            |                           |         |
| 2,800.0  | 2,787.4             | 2,779.1             | 2,776.9             | 6.4             | 5.1         | -172.50               | 1.4                               | 52.9       | 273.7                | 263.9                 | 9.78                   | 27.971            |                           |         |
| 2,900.0  | 2,886.7             | 2,878.0             | 2,875.7             | 6.7             | 5.3         | -172.30               | 1.6                               | 57.4       | 288.8                | 278.7                 | 10.14                  | 28.491            |                           |         |
| 3,000.0  | 2,986.1             | 2,976.8             | 2,974.4             | 6.9             | 5.5         | -172.13               | 1.8                               | 61.9       | 304.0                | 293.5                 | 10.49                  | 28.976            |                           |         |
| 3,100.0  | 3,085.4             | 3,075.6             | 3,073.2             | 7.2             | 5.7         | -171.97               | 2.1                               | 66.4       | 319.1                | 308.3                 | 10.84                  | 29.429            |                           |         |
| 3,200.0  | 3,184.8             | 3,174.5             | 3,171.9             | 7.5             | 5.9         | -171.83               | 2.3                               | 70.9       | 334.3                | 323.1                 | 11.20                  | 29.854            |                           |         |
| 3,300.0  | 3,284.1             | 3,273.3             | 3,270.6             | 7.7             | 6.1         | -171.69               | 2.5                               | 75.4       | 349.5                | 337.9                 | 11.55                  | 30.253            |                           |         |
| 3,400.0  | 3,383.4             | 3,372.2             | 3,369.4             | 8.0             | 6.3         | -171.57               | 2.8                               | 79.9       | 364.6                | 352.7                 | 11.91                  | 30.628            |                           |         |
| 3,500.0  | 3,482.8             | 3,471.0             | 3,468.1             | 8.2             | 6.5         | -171.46               | 3.0                               | 84.4       | 379.8                | 367.5                 | 12.26                  | 30.981            |                           |         |
| 3,600.0  | 3,582.1             | 3,569.8             | 3,566.8             | 8.5             | 6.6         | -171.36               | 3.2                               | 88.9       | 395.0                | 382.4                 | 12.61                  | 31.315            |                           |         |
| 3,700.0  | 3,681.5             | 3,668.7             | 3,665.6             | 8.8             | 6.8         | -171.27               | 3.5                               | 93.4       | 410.2                | 397.2                 | 12.97                  | 31.630            |                           |         |
| 3,800.0  | 3,780.8             | 3,767.5             | 3,764.3             | 9.0             | 7.0         | -171.18               | 3.7                               | 97.9       | 425.3                | 412.0                 | 13.32                  | 31.929            |                           |         |
| 3,900.0  | 3,880.1             | 3,866.4             | 3,863.1             | 9.3             | 7.2         | -171.10               | 3.9                               | 102.3      | 440.5                | 426.8                 | 13.68                  | 32.212            |                           |         |
| 4,000.0  | 3,979.5             | 3,965.2             | 3,961.8             | 9.6             | 7.4         | -171.02               | 4.2                               | 106.8      | 455.7                | 441.6                 | 14.03                  | 32.481            |                           |         |
| 4,100.0  | 4,078.8             | 4,064.0             | 4,060.5             | 9.8             | 7.6         | -170.95               | 4.4                               | 111.3      | 470.8                | 456.5                 | 14.38                  | 32.736            |                           |         |
| 4,200.0  | 4,178.2             | 4,162.9             | 4,159.3             | 10.1            | 7.8         | -170.88               | 4.6                               | 115.8      | 486.0                | 471.3                 | 14.74                  | 32.980            |                           |         |
| 4,300.0  | 4,277.5             | 4,261.7             | 4,258.0             | 10.4            | 8.0         | -170.82               | 4.8                               | 120.3      | 501.2                | 486.1                 | 15.09                  | 33.211            |                           |         |
| 4,400.0  | 4,376.8             | 4,360.6             | 4,356.7             | 10.6            | 8.2         | -170.76               | 5.1                               | 124.8      | 516.4                | 500.9                 | 15.45                  | 33.433            |                           |         |
| 4,500.0  | 4,476.2             | 4,459.4             | 4,455.5             | 10.9            | 8.3         | -170.70               | 5.3                               | 129.3      | 531.6                | 515.8                 | 15.80                  | 33.644            |                           |         |
| 4,600.0  | 4,575.5             | 4,558.2             | 4,554.2             | 11.2            | 8.5         | -170.65               | 5.5                               | 133.8      | 546.7                | 530.6                 | 16.15                  | 33.846            |                           |         |
| 4,700.0  | 4,674.9             | 4,657.1             | 4,653.0             | 11.4            | 8.7         | -170.60               | 5.8                               | 138.3      | 561.9                | 545.4                 | 16.51                  | 34.039            |                           |         |
| 4,800.0  | 4,774.2             | 4,755.9             | 4,751.7             | 11.7            | 8.9         | -170.55               | 6.0                               | 142.8      | 577.1                | 560.2                 | 16.86                  | 34.225            |                           |         |
| 4,900.0  | 4,873.5             | 4,854.8             | 4,850.4             | 12.0            | 9.1         | -170.51               | 6.2                               | 147.3      | 592.3                | 575.1                 | 17.22                  | 34.402            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3G-32H-K268 - Hz - Plan #3 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |                   | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |                   | Offset Well Error: | 0.0 ft |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       | Total            |                   | Warning            |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor |                    |        |
| 5,000.0  | 4,972.9             | 4,953.6             | 4,949.2             | 12.2            | 9.3         | -170.46               | 6.5                               | 151.8      | 607.5                | 589.9                 | 17.57            | 34.573            |                    |        |
| 5,100.0  | 5,072.2             | 5,052.4             | 5,047.9             | 12.5            | 9.5         | -170.42               | 6.7                               | 156.3      | 622.6                | 604.7                 | 17.92            | 34.737            |                    |        |
| 5,200.0  | 5,171.6             | 5,151.3             | 5,146.6             | 12.7            | 9.7         | -170.39               | 6.9                               | 160.8      | 637.8                | 619.5                 | 18.28            | 34.894            |                    |        |
| 5,300.0  | 5,270.9             | 5,250.1             | 5,245.4             | 13.0            | 9.9         | -170.35               | 7.2                               | 165.3      | 653.0                | 634.4                 | 18.63            | 35.045            |                    |        |
| 5,400.0  | 5,370.3             | 5,349.0             | 5,344.1             | 13.3            | 10.1        | -170.31               | 7.4                               | 169.7      | 668.2                | 649.2                 | 18.99            | 35.191            |                    |        |
| 5,500.0  | 5,469.6             | 5,447.8             | 5,442.9             | 13.5            | 10.2        | -170.28               | 7.6                               | 174.2      | 683.4                | 664.0                 | 19.34            | 35.331            |                    |        |
| 5,600.0  | 5,568.9             | 5,546.6             | 5,541.6             | 13.8            | 10.4        | -170.25               | 7.8                               | 178.7      | 698.5                | 678.8                 | 19.70            | 35.467            |                    |        |
| 5,700.0  | 5,668.3             | 5,645.5             | 5,640.3             | 14.1            | 10.6        | -170.22               | 8.1                               | 183.2      | 713.7                | 693.7                 | 20.05            | 35.597            |                    |        |
| 5,800.0  | 5,767.6             | 5,744.3             | 5,739.1             | 14.3            | 10.8        | -170.19               | 8.3                               | 187.7      | 728.9                | 708.5                 | 20.40            | 35.723            |                    |        |
| 5,900.0  | 5,867.0             | 5,843.2             | 5,837.8             | 14.6            | 11.0        | -170.16               | 8.5                               | 192.2      | 744.1                | 723.3                 | 20.76            | 35.845            |                    |        |
| 6,000.0  | 5,966.3             | 5,942.0             | 5,936.5             | 14.9            | 11.2        | -170.13               | 8.8                               | 196.7      | 759.3                | 738.2                 | 21.11            | 35.963            |                    |        |
| 6,100.0  | 6,065.6             | 6,040.8             | 6,035.3             | 15.1            | 11.4        | -170.11               | 9.0                               | 201.2      | 774.5                | 753.0                 | 21.47            | 36.076            |                    |        |
| 6,200.0  | 6,165.0             | 6,139.7             | 6,134.0             | 15.4            | 11.6        | -170.08               | 9.2                               | 205.7      | 789.6                | 767.8                 | 21.82            | 36.186            |                    |        |
| 6,300.0  | 6,264.3             | 6,238.5             | 6,232.8             | 15.7            | 11.8        | -170.06               | 9.5                               | 210.2      | 804.8                | 782.6                 | 22.18            | 36.293            |                    |        |
| 6,400.0  | 6,363.7             | 6,337.4             | 6,331.5             | 15.9            | 11.9        | -170.03               | 9.7                               | 214.7      | 820.0                | 797.5                 | 22.53            | 36.396            |                    |        |
| 6,500.0  | 6,463.0             | 6,436.2             | 6,430.2             | 16.2            | 12.1        | -170.01               | 9.9                               | 219.2      | 835.2                | 812.3                 | 22.88            | 36.496            |                    |        |
| 6,600.0  | 6,562.3             | 6,535.0             | 6,529.0             | 16.5            | 12.3        | -169.99               | 10.2                              | 223.7      | 850.4                | 827.1                 | 23.24            | 36.593            |                    |        |
| 6,700.0  | 6,661.7             | 6,633.9             | 6,627.7             | 16.7            | 12.5        | -169.97               | 10.4                              | 228.2      | 865.6                | 842.0                 | 23.59            | 36.687            |                    |        |
| 6,801.1  | 6,762.1             | 6,733.8             | 6,727.5             | 17.0            | 12.7        | -169.95               | 10.6                              | 232.7      | 880.9                | 857.0                 | 23.95            | 36.779            |                    |        |
| 6,850.0  | 6,810.8             | 6,782.3             | 6,775.9             | 17.1            | 12.8        | 142.03                | 10.7                              | 234.9      | 887.2                | 863.0                 | 24.15            | 36.735            |                    |        |
| 6,900.0  | 6,860.5             | 6,844.1             | 6,836.5             | 17.2            | 13.1        | 100.25                | -4.4                              | 242.2      | 889.9                | 865.3                 | 24.63            | 36.139            |                    |        |
| 6,950.0  | 6,909.9             | 7,173.4             | 7,143.2             | 17.2            | 13.7        | 92.10                 | -99.4                             | 251.6      | 881.0                | 855.2                 | 25.79            | 34.153            |                    |        |
| 7,000.0  | 6,958.4             | 7,290.7             | 7,230.1             | 17.2            | 14.2        | 92.57                 | -177.8                            | 255.6      | 866.1                | 839.3                 | 26.80            | 32.316            |                    |        |
| 7,050.0  | 7,005.8             | 7,347.2             | 7,265.9             | 17.1            | 14.5        | 93.82                 | -221.5                            | 257.2      | 850.5                | 823.2                 | 27.38            | 31.061            |                    |        |
| 7,100.0  | 7,051.7             | 7,373.2             | 7,280.8             | 17.1            | 14.6        | 94.62                 | -242.8                            | 257.9      | 836.2                | 808.6                 | 27.63            | 30.261            |                    |        |
| 7,150.0  | 7,095.8             | 7,382.7             | 7,286.0             | 17.0            | 14.7        | 94.88                 | -250.7                            | 258.1      | 824.0                | 796.4                 | 27.66            | 29.789            |                    |        |
| 7,200.0  | 7,137.6             | 7,382.5             | 7,285.9             | 16.9            | 14.7        | 94.67                 | -250.5                            | 258.1      | 814.4                | 786.8                 | 27.56            | 29.549            |                    |        |
| 7,250.0  | 7,176.9             | 7,376.1             | 7,282.4             | 16.8            | 14.6        | 94.06                 | -245.2                            | 258.0      | 807.4                | 780.0                 | 27.38            | 29.485            |                    |        |
| 7,300.0  | 7,213.4             | 7,365.7             | 7,276.6             | 16.7            | 14.6        | 93.09                 | -236.5                            | 257.7      | 803.2                | 776.0                 | 27.17            | 29.561            |                    |        |
| 7,350.0  | 7,246.8             | 7,352.4             | 7,268.9             | 16.6            | 14.5        | 91.81                 | -225.7                            | 257.3      | 801.6                | 774.7                 | 26.95            | 29.749            |                    |        |
| 7,354.9  | 7,249.9             | 7,351.0             | 7,268.1             | 16.6            | 14.5        | 91.67                 | -224.5                            | 257.3      | 801.6                | 774.7                 | 26.93            | 29.772            |                    |        |
| 7,400.0  | 7,276.9             | 7,337.0             | 7,259.7             | 16.5            | 14.4        | 90.26                 | -213.4                            | 256.9      | 802.6                | 775.9                 | 26.74            | 30.017            |                    |        |
| 7,450.0  | 7,303.4             | 7,320.2             | 7,249.3             | 16.4            | 14.3        | 88.48                 | -200.2                            | 256.5      | 806.0                | 779.5                 | 26.55            | 30.358            |                    |        |
| 7,500.0  | 7,326.1             | 7,300.0             | 7,236.3             | 16.4            | 14.2        | 86.37                 | -184.8                            | 255.9      | 811.5                | 785.2                 | 26.37            | 30.780            |                    |        |
| 7,550.0  | 7,344.8             | 7,283.1             | 7,225.0             | 16.4            | 14.1        | 84.38                 | -172.2                            | 255.3      | 818.9                | 792.7                 | 26.24            | 31.210            |                    |        |
| 7,600.0  | 7,359.5             | 7,263.5             | 7,211.4             | 16.4            | 14.0        | 82.14                 | -158.0                            | 254.7      | 828.0                | 801.9                 | 26.11            | 31.710            |                    |        |
| 7,650.0  | 7,370.0             | 7,243.2             | 7,196.9             | 16.5            | 13.9        | 79.82                 | -143.9                            | 254.1      | 838.3                | 812.4                 | 25.99            | 32.257            |                    |        |
| 7,700.0  | 7,376.1             | 7,222.5             | 7,181.5             | 16.6            | 13.9        | 77.48                 | -130.0                            | 253.4      | 849.8                | 823.9                 | 25.88            | 32.841            |                    |        |
| 7,746.2  | 7,378.0             | 7,200.0             | 7,164.3             | 16.8            | 13.8        | 75.16                 | -115.6                            | 252.6      | 861.0                | 835.3                 | 25.74            | 33.449            |                    |        |
| 7,800.0  | 7,378.0             | 7,181.2             | 7,149.4             | 17.0            | 13.7        | 74.16                 | -104.1                            | 251.9      | 875.6                | 849.7                 | 25.86            | 33.857            |                    |        |
| 7,900.0  | 7,378.0             | 7,150.0             | 7,124.0             | 17.5            | 13.6        | 72.48                 | -86.0                             | 250.8      | 908.6                | 882.4                 | 26.24            | 34.630            |                    |        |
| 8,000.0  | 7,378.0             | 7,116.0             | 7,095.3             | 18.2            | 13.5        | 70.61                 | -68.0                             | 249.4      | 949.1                | 922.4                 | 26.74            | 35.489            |                    |        |
| 8,100.0  | 7,378.0             | 7,100.0             | 7,081.4             | 19.0            | 13.5        | 69.72                 | -60.1                             | 248.8      | 996.8                | 969.3                 | 27.52            | 36.219            |                    |        |
| 8,200.0  | 7,378.0             | 7,069.0             | 7,053.9             | 20.0            | 13.4        | 67.98                 | -45.9                             | 247.6      | 1,050.6              | 1,022.3               | 28.26            | 37.177            |                    |        |
| 8,300.0  | 7,378.0             | 7,050.0             | 7,036.6             | 21.0            | 13.3        | 66.91                 | -37.9                             | 246.8      | 1,110.1              | 1,080.9               | 29.17            | 38.051            |                    |        |
| 8,400.0  | 7,378.0             | 7,034.0             | 7,021.9             | 22.2            | 13.3        | 66.00                 | -31.7                             | 246.1      | 1,174.5              | 1,144.3               | 30.18            | 38.919            |                    |        |
| 8,500.0  | 7,378.0             | 7,019.7             | 7,008.6             | 23.4            | 13.3        | 65.20                 | -26.4                             | 245.5      | 1,243.2              | 1,211.9               | 31.24            | 39.791            |                    |        |
| 8,600.0  | 7,378.0             | 7,000.0             | 6,990.1             | 24.7            | 13.2        | 64.09                 | -19.8                             | 244.7      | 1,315.5              | 1,283.3               | 32.27            | 40.767            |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3H-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | 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         | -90.01                | 0.0                               | -39.2      | 39.2                 |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | -90.01                | 0.0                               | -39.2      | 39.2                 | 38.9                  | 0.30                   | 128.976           |                           |         |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -90.01                | 0.0                               | -39.2      | 39.2                 | 38.5                  | 0.65                   | 60.005            |                           |         |
| 300.0  | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -90.01                | 0.0                               | -39.2      | 39.2                 | 38.2                  | 1.00                   | 39.097            |                           |         |
| 400.0  | 400.0               | 400.3               | 400.3               | 0.7             | 0.7         | -89.98                | 0.0                               | -38.9      | 38.9                 | 37.6                  | 1.35                   | 28.819            |                           |         |
| 450.0  | 450.0               | 450.7               | 450.7               | 0.8             | 0.8         | -89.90                | 0.1                               | -38.3      | 38.3                 | 36.8                  | 1.53                   | 25.077            |                           |         |
| 500.0  | 500.0               | 501.0               | 501.0               | 0.9             | 0.9         | 43.82                 | 0.2                               | -37.2      | 37.0                 | 35.3                  | 1.70                   | 21.767            |                           |         |
| 600.0  | 600.0               | 601.5               | 601.4               | 1.0             | 1.0         | 46.56                 | 0.4                               | -33.7      | 32.3                 | 30.3                  | 2.05                   | 15.749            |                           |         |
| 700.0  | 699.9               | 701.6               | 701.4               | 1.2             | 1.2         | 54.13                 | 0.9                               | -28.4      | 24.9                 | 22.5                  | 2.41                   | 10.357            |                           |         |
| 800.0  | 799.8               | 801.3               | 800.8               | 1.4             | 1.4         | 76.14                 | 1.4                               | -21.5      | 16.3                 | 13.5                  | 2.79                   | 5.840             |                           |         |
| 866.6  | 866.3               | 867.3               | 866.6               | 1.5             | 1.6         | 111.62                | 1.9                               | -15.9      | 13.2                 | 10.1                  | 3.08                   | 4.278 CC, ES, SF  |                           |         |
| 900.0  | 899.5               | 900.3               | 899.4               | 1.6             | 1.6         | 133.22                | 2.1                               | -12.8      | 14.2                 | 11.0                  | 3.21                   | 4.430             |                           |         |
| 1,000.0  | 999.2               | 998.6               | 997.3               | 1.8             | 1.9         | 171.13                | 2.9                               | -2.8       | 26.7                 | 23.2                  | 3.51                   | 7.589             |                           |         |
| 1,108.4  | 1,106.9             | 1,104.9             | 1,102.9             | 2.1             | 2.1         | -176.41               | 3.8                               | 8.2        | 46.6                 | 42.7                  | 3.87                   | 12.028            |                           |         |
| 1,200.0  | 1,197.9             | 1,194.6             | 1,192.2             | 2.3             | 2.3         | -172.14               | 4.5                               | 17.5       | 64.9                 | 60.7                  | 4.19                   | 15.492            |                           |         |
| 1,300.0  | 1,297.3             | 1,292.5             | 1,289.5             | 2.5             | 2.6         | -169.59               | 5.3                               | 27.6       | 85.2                 | 80.6                  | 4.55                   | 18.740            |                           |         |
| 1,400.0  | 1,396.6             | 1,390.3             | 1,386.8             | 2.8             | 2.8         | -168.02               | 6.1                               | 37.7       | 105.5                | 100.6                 | 4.90                   | 21.526            |                           |         |
| 1,500.0  | 1,496.0             | 1,488.2             | 1,484.2             | 3.0             | 3.0         | -166.96               | 6.9                               | 47.9       | 126.0                | 120.7                 | 5.26                   | 23.936            |                           |         |
| 1,600.0  | 1,595.3             | 1,586.1             | 1,581.5             | 3.3             | 3.3         | -166.20               | 7.7                               | 58.0       | 146.4                | 140.8                 | 5.62                   | 26.038            |                           |         |
| 1,700.0  | 1,694.7             | 1,683.9             | 1,678.9             | 3.5             | 3.5         | -165.62               | 8.6                               | 68.2       | 166.8                | 160.9                 | 5.98                   | 27.886            |                           |         |
| 1,800.0  | 1,794.0             | 1,781.8             | 1,776.2             | 3.8             | 3.8         | -165.17               | 9.4                               | 78.3       | 187.3                | 181.0                 | 6.34                   | 29.523            |                           |         |
| 1,900.0  | 1,893.3             | 1,879.7             | 1,873.6             | 4.0             | 4.0         | -164.81               | 10.2                              | 88.4       | 207.8                | 201.1                 | 6.71                   | 30.983            |                           |         |
| 2,000.0  | 1,992.7             | 1,977.6             | 1,970.9             | 4.3             | 4.2         | -164.51               | 11.0                              | 98.6       | 228.3                | 221.2                 | 7.07                   | 32.292            |                           |         |
| 2,100.0  | 2,092.0             | 2,075.4             | 2,068.2             | 4.6             | 4.5         | -164.26               | 11.8                              | 108.7      | 248.8                | 241.3                 | 7.43                   | 33.473            |                           |         |
| 2,200.0  | 2,191.4             | 2,173.3             | 2,165.6             | 4.8             | 4.7         | -164.05               | 12.6                              | 118.9      | 269.2                | 261.5                 | 7.79                   | 34.543            |                           |         |
| 2,300.0  | 2,290.7             | 2,271.2             | 2,262.9             | 5.1             | 5.0         | -163.87               | 13.4                              | 129.0      | 289.7                | 281.6                 | 8.16                   | 35.518            |                           |         |
| 2,400.0  | 2,390.0             | 2,369.1             | 2,360.3             | 5.3             | 5.2         | -163.71               | 14.2                              | 139.2      | 310.2                | 301.7                 | 8.52                   | 36.409            |                           |         |
| 2,500.0  | 2,489.4             | 2,466.9             | 2,457.6             | 5.6             | 5.5         | -163.58               | 15.0                              | 149.3      | 330.7                | 321.9                 | 8.88                   | 37.226            |                           |         |
| 2,600.0  | 2,588.7             | 2,564.8             | 2,555.0             | 5.9             | 5.7         | -163.45               | 15.8                              | 159.4      | 351.2                | 342.0                 | 9.25                   | 37.978            |                           |         |
| 2,700.0  | 2,688.1             | 2,662.7             | 2,652.3             | 6.1             | 6.0         | -163.35               | 16.6                              | 169.6      | 371.7                | 362.1                 | 9.61                   | 38.674            |                           |         |
| 2,800.0  | 2,787.4             | 2,760.6             | 2,749.6             | 6.4             | 6.2         | -163.25               | 17.5                              | 179.7      | 392.2                | 382.3                 | 9.98                   | 39.318            |                           |         |
| 2,900.0  | 2,886.7             | 2,858.4             | 2,847.0             | 6.7             | 6.4         | -163.16               | 18.3                              | 189.9      | 412.8                | 402.4                 | 10.34                  | 39.916            |                           |         |
| 3,000.0  | 2,986.1             | 2,956.3             | 2,944.3             | 6.9             | 6.7         | -163.08               | 19.1                              | 200.0      | 433.3                | 422.6                 | 10.70                  | 40.474            |                           |         |
| 3,100.0  | 3,085.4             | 3,054.2             | 3,041.7             | 7.2             | 6.9         | -163.01               | 19.9                              | 210.1      | 453.8                | 442.7                 | 11.07                  | 40.995            |                           |         |
| 3,200.0  | 3,184.8             | 3,152.0             | 3,139.0             | 7.5             | 7.2         | -162.95               | 20.7                              | 220.3      | 474.3                | 462.8                 | 11.43                  | 41.482            |                           |         |
| 3,300.0  | 3,284.1             | 3,249.9             | 3,236.4             | 7.7             | 7.4         | -162.89               | 21.5                              | 230.4      | 494.8                | 483.0                 | 11.80                  | 41.939            |                           |         |
| 3,400.0  | 3,383.4             | 3,347.8             | 3,333.7             | 8.0             | 7.7         | -162.83               | 22.3                              | 240.6      | 515.3                | 503.1                 | 12.16                  | 42.368            |                           |         |
| 3,500.0  | 3,482.8             | 3,445.7             | 3,431.1             | 8.2             | 7.9         | -162.78               | 23.1                              | 250.7      | 535.8                | 523.3                 | 12.53                  | 42.772            |                           |         |
| 3,600.0  | 3,582.1             | 3,543.5             | 3,528.4             | 8.5             | 8.2         | -162.73               | 23.9                              | 260.8      | 556.3                | 543.4                 | 12.89                  | 43.154            |                           |         |
| 3,700.0  | 3,681.5             | 3,641.4             | 3,625.7             | 8.8             | 8.4         | -162.69               | 24.7                              | 271.0      | 576.8                | 563.6                 | 13.26                  | 43.514            |                           |         |
| 3,800.0  | 3,780.8             | 3,739.3             | 3,723.1             | 9.0             | 8.7         | -162.65               | 25.5                              | 281.1      | 597.3                | 583.7                 | 13.62                  | 43.855            |                           |         |
| 3,900.0  | 3,880.1             | 3,837.2             | 3,820.4             | 9.3             | 8.9         | -162.61               | 26.4                              | 291.3      | 617.8                | 603.8                 | 13.99                  | 44.178            |                           |         |
| 4,000.0  | 3,979.5             | 3,935.0             | 3,917.8             | 9.6             | 9.2         | -162.57               | 27.2                              | 301.4      | 638.3                | 624.0                 | 14.35                  | 44.484            |                           |         |
| 4,100.0  | 4,078.8             | 4,032.9             | 4,015.1             | 9.8             | 9.4         | -162.54               | 28.0                              | 311.5      | 658.8                | 644.1                 | 14.71                  | 44.775            |                           |         |
| 4,200.0  | 4,178.2             | 4,130.8             | 4,112.5             | 10.1            | 9.6         | -162.51               | 28.8                              | 321.7      | 679.4                | 664.3                 | 15.08                  | 45.052            |                           |         |
| 4,300.0  | 4,277.5             | 4,228.7             | 4,209.8             | 10.4            | 9.9         | -162.48               | 29.6                              | 331.8      | 699.9                | 684.4                 | 15.44                  | 45.316            |                           |         |
| 4,400.0  | 4,376.8             | 4,326.5             | 4,307.1             | 10.6            | 10.1        | -162.45               | 30.4                              | 342.0      | 720.4                | 704.6                 | 15.81                  | 45.567            |                           |         |
| 4,500.0  | 4,476.2             | 4,424.4             | 4,404.5             | 10.9            | 10.4        | -162.42               | 31.2                              | 352.1      | 740.9                | 724.7                 | 16.17                  | 45.807            |                           |         |
| 4,600.0  | 4,575.5             | 4,522.3             | 4,501.8             | 11.2            | 10.6        | -162.40               | 32.0                              | 362.3      | 761.4                | 744.9                 | 16.54                  | 46.037            |                           |         |
| 4,700.0  | 4,674.9             | 4,620.1             | 4,599.2             | 11.4            | 10.9        | -162.38               | 32.8                              | 372.4      | 781.9                | 765.0                 | 16.90                  | 46.256            |                           |         |
| 4,800.0  | 4,774.2             | 4,718.0             | 4,696.5             | 11.7            | 11.1        | -162.35               | 33.6                              | 382.5      | 802.4                | 785.2                 | 17.27                  | 46.467            |                           |         |
| 4,900.0  | 4,873.5             | 4,815.9             | 4,793.9             | 12.0            | 11.4        | -162.33               | 34.4                              | 392.7      | 822.9                | 805.3                 | 17.63                  | 46.668            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3H-32H-K268 - Hz - Plan #2 |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD  |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference  |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | Total<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) |                              |                      |                    |        |
| 5,000.0  | 4,972.9                   | 4,913.8                   | 4,891.2                   | 12.2              | 11.6           | -162.31                     | 35.3                                    | 402.8         | 843.4                      | 825.4                       | 18.00                        | 46.861               |                    |        |
| 5,100.0  | 5,072.2                   | 5,011.6                   | 4,988.5                   | 12.5              | 11.9           | -162.29                     | 36.1                                    | 413.0         | 864.0                      | 845.6                       | 18.36                        | 47.047               |                    |        |
| 5,200.0  | 5,171.6                   | 5,109.5                   | 5,085.9                   | 12.7              | 12.1           | -162.27                     | 36.9                                    | 423.1         | 884.5                      | 865.7                       | 18.73                        | 47.225               |                    |        |
| 5,300.0  | 5,270.9                   | 5,207.4                   | 5,183.2                   | 13.0              | 12.4           | -162.26                     | 37.7                                    | 433.2         | 905.0                      | 885.9                       | 19.09                        | 47.397               |                    |        |
| 5,400.0  | 5,370.3                   | 5,305.3                   | 5,280.6                   | 13.3              | 12.6           | -162.24                     | 38.5                                    | 443.4         | 925.5                      | 906.0                       | 19.46                        | 47.562               |                    |        |
| 5,500.0  | 5,469.6                   | 5,403.1                   | 5,377.9                   | 13.5              | 12.9           | -162.22                     | 39.3                                    | 453.5         | 946.0                      | 926.2                       | 19.82                        | 47.720               |                    |        |
| 5,600.0  | 5,568.9                   | 5,501.0                   | 5,475.3                   | 13.8              | 13.1           | -162.21                     | 40.1                                    | 463.7         | 966.5                      | 946.3                       | 20.19                        | 47.874               |                    |        |
| 5,700.0  | 5,668.3                   | 5,598.9                   | 5,572.6                   | 14.1              | 13.3           | -162.19                     | 40.9                                    | 473.8         | 987.0                      | 966.5                       | 20.55                        | 48.021               |                    |        |
| 5,800.0  | 5,767.6                   | 5,696.8                   | 5,669.9                   | 14.3              | 13.6           | -162.18                     | 41.7                                    | 483.9         | 1,007.5                    | 986.6                       | 20.92                        | 48.164               |                    |        |
| 5,900.0  | 5,867.0                   | 5,794.6                   | 5,767.3                   | 14.6              | 13.8           | -162.17                     | 42.5                                    | 494.1         | 1,028.0                    | 1,006.8                     | 21.28                        | 48.301               |                    |        |
| 6,000.0  | 5,966.3                   | 5,892.5                   | 5,864.6                   | 14.9              | 14.1           | -162.15                     | 43.3                                    | 504.2         | 1,048.6                    | 1,026.9                     | 21.65                        | 48.434               |                    |        |
| 6,100.0  | 6,065.6                   | 5,990.4                   | 5,962.0                   | 15.1              | 14.3           | -162.14                     | 44.1                                    | 514.4         | 1,069.1                    | 1,047.1                     | 22.01                        | 48.563               |                    |        |
| 6,200.0  | 6,165.0                   | 6,088.2                   | 6,059.3                   | 15.4              | 14.6           | -162.13                     | 45.0                                    | 524.5         | 1,089.6                    | 1,067.2                     | 22.38                        | 48.687               |                    |        |
| 6,300.0  | 6,264.3                   | 6,186.1                   | 6,156.7                   | 15.7              | 14.8           | -162.12                     | 45.8                                    | 534.7         | 1,110.1                    | 1,087.4                     | 22.74                        | 48.807               |                    |        |
| 6,400.0  | 6,363.7                   | 6,284.0                   | 6,254.0                   | 15.9              | 15.1           | -162.10                     | 46.6                                    | 544.8         | 1,130.6                    | 1,107.5                     | 23.11                        | 48.923               |                    |        |
| 6,500.0  | 6,463.0                   | 6,381.9                   | 6,351.4                   | 16.2              | 15.3           | -162.09                     | 47.4                                    | 554.9         | 1,151.1                    | 1,127.6                     | 23.47                        | 49.036               |                    |        |
| 6,600.0  | 6,562.3                   | 6,479.7                   | 6,448.7                   | 16.5              | 15.6           | -162.08                     | 48.2                                    | 565.1         | 1,171.6                    | 1,147.8                     | 23.84                        | 49.146               |                    |        |
| 6,700.0  | 6,661.7                   | 6,577.6                   | 6,546.0                   | 16.7              | 15.8           | -162.07                     | 49.0                                    | 575.2         | 1,192.1                    | 1,167.9                     | 24.21                        | 49.252               |                    |        |
| 6,801.1  | 6,762.1                   | 6,676.6                   | 6,644.5                   | 17.0              | 16.1           | -162.06                     | 49.8                                    | 585.5         | 1,212.9                    | 1,188.3                     | 24.57                        | 49.356               |                    |        |
| 6,850.0  | 6,810.8                   | 6,724.5                   | 6,692.2                   | 17.1              | 16.2           | 149.57                      | 50.2                                    | 590.4         | 1,222.0                    | 1,197.2                     | 24.79                        | 49.298               |                    |        |
| 6,900.0  | 6,860.5                   | 6,773.6                   | 6,741.0                   | 17.2              | 16.3           | 105.49                      | 50.6                                    | 595.5         | 1,229.5                    | 1,204.6                     | 24.97                        | 49.248               |                    |        |
| 6,950.0  | 6,909.9                   | 6,822.3                   | 6,789.4                   | 17.2              | 16.4           | 88.56                       | 51.0                                    | 600.6         | 1,235.2                    | 1,210.1                     | 25.10                        | 49.213               |                    |        |
| 7,000.0  | 6,958.4                   | 6,870.3                   | 6,837.1                   | 17.2              | 16.5           | 81.40                       | 51.4                                    | 605.5         | 1,239.0                    | 1,213.8                     | 25.19                        | 49.193               |                    |        |
| 7,050.0  | 7,005.8                   | 6,917.1                   | 6,883.7                   | 17.1              | 16.7           | 77.95                       | 51.8                                    | 610.4         | 1,241.1                    | 1,215.9                     | 25.24                        | 49.179               |                    |        |
| 7,100.0  | 7,051.7                   | 6,962.5                   | 6,928.9                   | 17.1              | 16.8           | 76.31                       | 52.2                                    | 615.1         | 1,241.6                    | 1,216.4                     | 25.26                        | 49.155               |                    |        |
| 7,150.0  | 7,095.8                   | 7,006.1                   | 6,972.2                   | 17.0              | 16.9           | 75.71                       | 52.5                                    | 619.6         | 1,240.7                    | 1,215.5                     | 25.27                        | 49.105               |                    |        |
| 7,200.0  | 7,137.6                   | 7,047.6                   | 7,013.5                   | 16.9              | 17.0           | 75.80                       | 52.9                                    | 623.9         | 1,238.6                    | 1,213.4                     | 25.27                        | 49.014               |                    |        |
| 7,250.0  | 7,176.9                   | 7,131.9                   | 7,097.2                   | 16.8              | 17.2           | 77.85                       | 49.8                                    | 632.6         | 1,235.2                    | 1,209.8                     | 25.43                        | 48.569               |                    |        |
| 7,300.0  | 7,213.4                   | 7,215.2                   | 7,178.7                   | 16.7              | 17.4           | 80.86                       | 34.8                                    | 641.1         | 1,229.6                    | 1,204.0                     | 25.66                        | 47.913               |                    |        |
| 7,350.0  | 7,246.8                   | 7,263.9                   | 7,224.9                   | 16.6              | 17.5           | 83.01                       | 20.7                                    | 645.9         | 1,223.6                    | 1,197.8                     | 25.80                        | 47.425               |                    |        |
| 7,400.0  | 7,276.9                   | 7,290.7                   | 7,249.9                   | 16.5              | 17.6           | 84.38                       | 11.2                                    | 648.5         | 1,218.0                    | 1,192.2                     | 25.84                        | 47.137               |                    |        |
| 7,450.0  | 7,303.4                   | 7,303.9                   | 7,262.0                   | 16.4              | 17.6           | 85.14                       | 6.1                                     | 649.8         | 1,213.4                    | 1,187.6                     | 25.84                        | 46.956               |                    |        |
| 7,500.0  | 7,326.1                   | 7,307.9                   | 7,265.7                   | 16.4              | 17.6           | 85.42                       | 4.5                                     | 650.2         | 1,210.1                    | 1,184.2                     | 25.84                        | 46.828               |                    |        |
| 7,550.0  | 7,344.8                   | 7,305.8                   | 7,263.7                   | 16.4              | 17.6           | 85.34                       | 5.4                                     | 650.0         | 1,208.0                    | 1,182.2                     | 25.85                        | 46.728               |                    |        |
| 7,600.0  | 7,359.5                   | 7,299.3                   | 7,257.8                   | 16.4              | 17.6           | 84.97                       | 7.9                                     | 649.4         | 1,207.3                    | 1,181.4                     | 25.89                        | 46.634               |                    |        |
| 7,604.2  | 7,360.5                   | 7,298.6                   | 7,257.1                   | 16.4              | 17.6           | 84.93                       | 8.2                                     | 649.3         | 1,207.3                    | 1,181.4                     | 25.90                        | 46.619               |                    |        |
| 7,650.0  | 7,370.0                   | 7,289.6                   | 7,248.9                   | 16.5              | 17.6           | 84.38                       | 11.6                                    | 648.4         | 1,207.8                    | 1,181.8                     | 25.96                        | 46.532               |                    |        |
| 7,700.0  | 7,376.1                   | 7,277.5                   | 7,237.7                   | 16.6              | 17.5           | 83.61                       | 16.0                                    | 647.3         | 1,209.5                    | 1,183.4                     | 26.05                        | 46.421               |                    |        |
| 7,746.2  | 7,378.0                   | 7,264.7                   | 7,225.7                   | 16.8              | 17.5           | 82.77                       | 20.4                                    | 646.0         | 1,212.0                    | 1,185.8                     | 26.17                        | 46.312               |                    |        |
| 7,800.0  | 7,378.0                   | 7,250.0                   | 7,211.9                   | 17.0              | 17.5           | 82.11                       | 25.1                                    | 644.6         | 1,216.5                    | 1,190.1                     | 26.39                        | 46.099               |                    |        |
| 7,900.0  | 7,378.0                   | 7,228.1                   | 7,191.0                   | 17.5              | 17.4           | 81.12                       | 31.5                                    | 642.4         | 1,230.6                    | 1,203.6                     | 26.96                        | 45.647               |                    |        |
| 8,000.0  | 7,378.0                   | 7,210.7                   | 7,174.3                   | 18.2              | 17.4           | 80.32                       | 35.9                                    | 640.7         | 1,252.1                    | 1,224.4                     | 27.71                        | 45.187               |                    |        |
| 8,100.0  | 7,378.0                   | 7,200.0                   | 7,164.0                   | 19.0              | 17.4           | 79.83                       | 38.5                                    | 639.6         | 1,280.8                    | 1,252.2                     | 28.63                        | 44.744               |                    |        |
| 8,200.0  | 7,378.0                   | 7,185.3                   | 7,149.7                   | 20.0              | 17.3           | 79.16                       | 41.6                                    | 638.1         | 1,316.3                    | 1,286.6                     | 29.64                        | 44.407               |                    |        |



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3I-32H-K268 - Hz - Plan #3 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | 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         | -104.61               | -3.6                              | -14.0      | 14.5                 |                       |                        |                   |                           |  |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | -104.61               | -3.6                              | -14.0      | 14.5                 | 14.2                  | 0.30                   | 47.602            |                           |  |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -104.61               | -3.6                              | -14.0      | 14.5                 | 13.8                  | 0.65                   | 22.147            | CC, ES                    |  |
| 300.0  | 300.0               | 299.7               | 299.7               | 0.5             | 0.5         | -105.06               | -4.0                              | -14.8      | 15.3                 | 14.3                  | 1.00                   | 15.292            |                           |  |
| 400.0  | 400.0               | 399.4               | 399.4               | 0.7             | 0.7         | -106.15               | -5.0                              | -17.2      | 17.9                 | 16.6                  | 1.35                   | 13.243            |                           |  |
| 450.0  | 450.0               | 449.2               | 449.1               | 0.8             | 0.8         | -106.77               | -5.7                              | -19.0      | 19.9                 | 18.3                  | 1.53                   | 12.981            |                           |  |
| 500.0  | 500.0               | 499.0               | 498.9               | 0.9             | 0.9         | 26.19                 | -6.6                              | -21.2      | 22.0                 | 20.3                  | 1.70                   | 12.977            |                           |  |
| 600.0  | 600.0               | 598.5               | 598.1               | 1.0             | 1.1         | 26.59                 | -9.0                              | -26.8      | 26.5                 | 24.5                  | 2.05                   | 12.962            |                           |  |
| 700.0  | 699.9               | 697.9               | 697.2               | 1.2             | 1.3         | 27.98                 | -11.9                             | -34.0      | 31.2                 | 28.8                  | 2.40                   | 13.017            |                           |  |
| 800.0  | 799.8               | 797.2               | 796.1               | 1.4             | 1.5         | 29.94                 | -15.6                             | -42.7      | 36.1                 | 33.3                  | 2.75                   | 13.117            |                           |  |
| 900.0  | 899.5               | 896.4               | 894.6               | 1.6             | 1.8         | 32.24                 | -19.9                             | -53.0      | 41.2                 | 38.1                  | 3.11                   | 13.246            |                           |  |
| 1,000.0  | 999.2               | 995.5               | 992.9               | 1.8             | 2.0         | 34.72                 | -24.8                             | -64.9      | 46.6                 | 43.1                  | 3.48                   | 13.385            |                           |  |
| 1,108.4  | 1,106.9             | 1,102.7             | 1,099.0             | 2.1             | 2.4         | 37.50                 | -30.9                             | -79.5      | 52.9                 | 49.0                  | 3.91                   | 13.530            |                           |  |
| 1,200.0  | 1,197.9             | 1,193.3             | 1,188.3             | 2.3             | 2.6         | 39.45                 | -36.6                             | -93.3      | 59.1                 | 54.8                  | 4.28                   | 13.791            |                           |  |
| 1,300.0  | 1,297.3             | 1,291.9             | 1,285.3             | 2.5             | 3.0         | 40.67                 | -43.4                             | -109.8     | 67.4                 | 62.7                  | 4.70                   | 14.349            |                           |  |
| 1,400.0  | 1,396.6             | 1,390.2             | 1,381.7             | 2.8             | 3.4         | 41.16                 | -50.9                             | -127.8     | 77.4                 | 72.3                  | 5.12                   | 15.127            |                           |  |
| 1,500.0  | 1,496.0             | 1,488.2             | 1,477.4             | 3.0             | 3.8         | 41.16                 | -58.9                             | -147.2     | 89.0                 | 83.5                  | 5.54                   | 16.079            |                           |  |
| 1,600.0  | 1,595.3             | 1,586.4             | 1,573.0             | 3.3             | 4.2         | 40.84                 | -67.6                             | -168.0     | 102.1                | 96.1                  | 5.95                   | 17.156            |                           |  |
| 1,700.0  | 1,694.7             | 1,685.5             | 1,669.3             | 3.5             | 4.6         | 40.53                 | -76.5                             | -189.4     | 115.5                | 109.1                 | 6.37                   | 18.137            |                           |  |
| 1,800.0  | 1,794.0             | 1,784.6             | 1,765.7             | 3.8             | 5.0         | 40.29                 | -85.4                             | -210.8     | 128.9                | 122.1                 | 6.79                   | 18.995            |                           |  |
| 1,900.0  | 1,893.3             | 1,883.7             | 1,862.0             | 4.0             | 5.5         | 40.09                 | -94.2                             | -232.2     | 142.3                | 135.1                 | 7.20                   | 19.750            |                           |  |
| 2,000.0  | 1,992.7             | 1,982.8             | 1,958.4             | 4.3             | 5.9         | 39.93                 | -103.1                            | -253.5     | 155.7                | 148.1                 | 7.62                   | 20.420            |                           |  |
| 2,100.0  | 2,092.0             | 2,081.9             | 2,054.7             | 4.6             | 6.3         | 39.79                 | -112.0                            | -274.9     | 169.1                | 161.0                 | 8.04                   | 21.018            |                           |  |
| 2,200.0  | 2,191.4             | 2,181.0             | 2,151.1             | 4.8             | 6.8         | 39.67                 | -120.8                            | -296.3     | 182.5                | 174.0                 | 8.47                   | 21.554            |                           |  |
| 2,300.0  | 2,290.7             | 2,280.1             | 2,247.5             | 5.1             | 7.2         | 39.57                 | -129.7                            | -317.6     | 195.9                | 187.0                 | 8.89                   | 22.039            |                           |  |
| 2,400.0  | 2,390.0             | 2,379.2             | 2,343.8             | 5.3             | 7.7         | 39.48                 | -138.6                            | -339.0     | 209.3                | 200.0                 | 9.31                   | 22.479            |                           |  |
| 2,500.0  | 2,489.4             | 2,478.3             | 2,440.2             | 5.6             | 8.1         | 39.40                 | -147.5                            | -360.4     | 222.7                | 212.9                 | 9.73                   | 22.879            |                           |  |
| 2,600.0  | 2,588.7             | 2,577.4             | 2,536.5             | 5.9             | 8.5         | 39.34                 | -156.3                            | -381.7     | 236.1                | 225.9                 | 10.16                  | 23.245            |                           |  |
| 2,700.0  | 2,688.1             | 2,676.5             | 2,632.9             | 6.1             | 9.0         | 39.27                 | -165.2                            | -403.1     | 249.5                | 238.9                 | 10.58                  | 23.581            |                           |  |
| 2,800.0  | 2,787.4             | 2,775.6             | 2,729.3             | 6.4             | 9.4         | 39.22                 | -174.1                            | -424.5     | 262.9                | 251.9                 | 11.00                  | 23.891            |                           |  |
| 2,900.0  | 2,886.7             | 2,874.7             | 2,825.6             | 6.7             | 9.9         | 39.17                 | -182.9                            | -445.8     | 276.3                | 264.9                 | 11.43                  | 24.177            |                           |  |
| 3,000.0  | 2,986.1             | 2,973.8             | 2,922.0             | 6.9             | 10.3        | 39.12                 | -191.8                            | -467.2     | 289.7                | 277.8                 | 11.85                  | 24.443            |                           |  |
| 3,100.0  | 3,085.4             | 3,072.9             | 3,018.3             | 7.2             | 10.8        | 39.08                 | -200.7                            | -488.6     | 303.1                | 290.8                 | 12.28                  | 24.689            |                           |  |
| 3,200.0  | 3,184.8             | 3,172.0             | 3,114.7             | 7.5             | 11.2        | 39.04                 | -209.6                            | -509.9     | 316.5                | 303.8                 | 12.70                  | 24.919            |                           |  |
| 3,300.0  | 3,284.1             | 3,271.1             | 3,211.1             | 7.7             | 11.6        | 39.01                 | -218.4                            | -531.3     | 329.9                | 316.8                 | 13.13                  | 25.133            |                           |  |
| 3,400.0  | 3,383.4             | 3,370.2             | 3,307.4             | 8.0             | 12.1        | 38.98                 | -227.3                            | -552.7     | 343.3                | 329.7                 | 13.55                  | 25.334            |                           |  |
| 3,500.0  | 3,482.8             | 3,469.3             | 3,403.8             | 8.2             | 12.5        | 38.95                 | -236.2                            | -574.1     | 356.7                | 342.7                 | 13.98                  | 25.522            |                           |  |
| 3,600.0  | 3,582.1             | 3,568.4             | 3,500.1             | 8.5             | 13.0        | 38.92                 | -245.0                            | -595.4     | 370.1                | 355.7                 | 14.40                  | 25.699            |                           |  |
| 3,700.0  | 3,681.5             | 3,667.5             | 3,596.5             | 8.8             | 13.4        | 38.90                 | -253.9                            | -616.8     | 383.5                | 368.7                 | 14.83                  | 25.866            |                           |  |
| 3,800.0  | 3,780.8             | 3,766.6             | 3,692.8             | 9.0             | 13.9        | 38.87                 | -262.8                            | -638.2     | 396.9                | 381.7                 | 15.25                  | 26.023            |                           |  |
| 3,900.0  | 3,880.1             | 3,865.7             | 3,789.2             | 9.3             | 14.3        | 38.85                 | -271.7                            | -659.5     | 410.3                | 394.6                 | 15.68                  | 26.172            |                           |  |
| 4,000.0  | 3,979.5             | 3,964.8             | 3,885.6             | 9.6             | 14.8        | 38.83                 | -280.5                            | -680.9     | 423.7                | 407.6                 | 16.10                  | 26.312            |                           |  |
| 4,100.0  | 4,078.8             | 4,063.9             | 3,981.9             | 9.8             | 15.2        | 38.81                 | -289.4                            | -702.3     | 437.1                | 420.6                 | 16.53                  | 26.445            |                           |  |
| 4,200.0  | 4,178.2             | 4,163.0             | 4,078.3             | 10.1            | 15.7        | 38.79                 | -298.3                            | -723.6     | 450.5                | 433.6                 | 16.96                  | 26.571            |                           |  |
| 4,300.0  | 4,277.5             | 4,262.0             | 4,174.6             | 10.4            | 16.1        | 38.77                 | -307.1                            | -745.0     | 463.9                | 446.5                 | 17.38                  | 26.691            |                           |  |
| 4,400.0  | 4,376.8             | 4,361.1             | 4,271.0             | 10.6            | 16.6        | 38.76                 | -316.0                            | -766.4     | 477.3                | 459.5                 | 17.81                  | 26.806            |                           |  |
| 4,500.0  | 4,476.2             | 4,460.2             | 4,367.4             | 10.9            | 17.0        | 38.74                 | -324.9                            | -787.7     | 490.7                | 472.5                 | 18.23                  | 26.914            |                           |  |
| 4,600.0  | 4,575.5             | 4,559.3             | 4,463.7             | 11.2            | 17.4        | 38.73                 | -333.8                            | -809.1     | 504.1                | 485.5                 | 18.66                  | 27.018            |                           |  |
| 4,700.0  | 4,674.9             | 4,658.4             | 4,560.1             | 11.4            | 17.9        | 38.71                 | -342.6                            | -830.5     | 517.5                | 498.5                 | 19.09                  | 27.117            |                           |  |
| 4,800.0  | 4,774.2             | 4,757.5             | 4,656.4             | 11.7            | 18.3        | 38.70                 | -351.5                            | -851.8     | 530.9                | 511.4                 | 19.51                  | 27.212            |                           |  |
| 4,900.0  | 4,873.5             | 4,856.6             | 4,752.8             | 12.0            | 18.8        | 38.69                 | -360.4                            | -873.2     | 544.4                | 524.4                 | 19.94                  | 27.302            |                           |  |
| 5,000.0  | 4,972.9             | 4,955.7             | 4,849.1             | 12.2            | 19.2        | 38.68                 | -369.2                            | -894.6     | 557.8                | 537.4                 | 20.36                  | 27.389            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3L-32H-K268 - Hz - Plan #3 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |         | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------|--------------------|--------|
| Survey Program: O-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |         | Offset Well Error: | 0.0 ft |
| Reference  |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   | Total      |                      | Separation            |                  | Warning |                    |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis |         |                    |        |
| 5,100.0  | 5,072.2             | 5,054.8             | 4,945.5             | 12.5            | 19.7        | 38.66                 | -378.1                            | -916.0     | 571.2                | 550.4                 | 20.79            | 27.472  |                    |        |
| 5,200.0  | 5,171.6             | 5,153.9             | 5,041.9             | 12.7            | 20.1        | 38.65                 | -387.0                            | -937.3     | 584.6                | 563.3                 | 21.22            | 27.551  |                    |        |
| 5,300.0  | 5,270.9             | 5,253.0             | 5,138.2             | 13.0            | 20.6        | 38.64                 | -395.9                            | -958.7     | 598.0                | 576.3                 | 21.64            | 27.628  |                    |        |
| 5,400.0  | 5,370.3             | 5,352.1             | 5,234.6             | 13.3            | 21.0        | 38.63                 | -404.7                            | -980.1     | 611.4                | 589.3                 | 22.07            | 27.701  |                    |        |
| 5,500.0  | 5,469.6             | 5,451.2             | 5,330.9             | 13.5            | 21.5        | 38.62                 | -413.6                            | -1,001.4   | 624.8                | 602.3                 | 22.50            | 27.772  |                    |        |
| 5,600.0  | 5,568.9             | 5,550.3             | 5,427.3             | 13.8            | 21.9        | 38.61                 | -422.5                            | -1,022.8   | 638.2                | 615.3                 | 22.92            | 27.840  |                    |        |
| 5,700.0  | 5,668.3             | 5,649.4             | 5,523.7             | 14.1            | 22.4        | 38.61                 | -431.3                            | -1,044.2   | 651.6                | 628.2                 | 23.35            | 27.905  |                    |        |
| 5,800.0  | 5,767.6             | 5,748.5             | 5,620.0             | 14.3            | 22.8        | 38.60                 | -440.2                            | -1,065.5   | 665.0                | 641.2                 | 23.78            | 27.969  |                    |        |
| 5,900.0  | 5,867.0             | 5,847.6             | 5,716.4             | 14.6            | 23.3        | 38.59                 | -449.1                            | -1,086.9   | 678.4                | 654.2                 | 24.20            | 28.029  |                    |        |
| 6,000.0  | 5,966.3             | 5,946.7             | 5,812.7             | 14.9            | 23.7        | 38.58                 | -458.0                            | -1,108.3   | 691.8                | 667.2                 | 24.63            | 28.088  |                    |        |
| 6,100.0  | 6,065.6             | 6,045.8             | 5,909.1             | 15.1            | 24.1        | 38.57                 | -466.8                            | -1,129.6   | 705.2                | 680.1                 | 25.06            | 28.145  |                    |        |
| 6,200.0  | 6,165.0             | 6,144.9             | 6,005.5             | 15.4            | 24.6        | 38.57                 | -475.7                            | -1,151.0   | 718.6                | 693.1                 | 25.48            | 28.199  |                    |        |
| 6,300.0  | 6,264.3             | 6,244.0             | 6,101.8             | 15.7            | 25.0        | 38.56                 | -484.6                            | -1,172.4   | 732.0                | 706.1                 | 25.91            | 28.252  |                    |        |
| 6,400.0  | 6,363.7             | 6,343.1             | 6,198.2             | 15.9            | 25.5        | 38.55                 | -493.5                            | -1,193.7   | 745.4                | 719.1                 | 26.34            | 28.304  |                    |        |
| 6,500.0  | 6,463.0             | 6,442.2             | 6,294.5             | 16.2            | 25.9        | 38.55                 | -502.3                            | -1,215.1   | 758.8                | 732.1                 | 26.76            | 28.353  |                    |        |
| 6,600.0  | 6,562.3             | 6,541.3             | 6,390.9             | 16.5            | 26.4        | 38.54                 | -511.2                            | -1,236.5   | 772.2                | 745.0                 | 27.19            | 28.401  |                    |        |
| 6,700.0  | 6,661.7             | 6,640.4             | 6,487.2             | 16.7            | 26.8        | 38.53                 | -520.1                            | -1,257.9   | 785.6                | 758.0                 | 27.62            | 28.448  |                    |        |
| 6,801.1  | 6,762.1             | 6,740.6             | 6,584.7             | 17.0            | 27.3        | 38.53                 | -529.0                            | -1,279.5   | 799.2                | 771.1                 | 28.05            | 28.493  |                    |        |
| 6,850.0  | 6,810.8             | 6,789.0             | 6,631.7             | 17.1            | 27.5        | -8.56                 | -533.4                            | -1,289.9   | 805.9                | 777.5                 | 28.38            | 28.396  |                    |        |
| 6,900.0  | 6,860.5             | 6,838.0             | 6,679.4             | 17.2            | 27.7        | -51.96                | -537.8                            | -1,300.5   | 813.1                | 784.5                 | 28.61            | 28.423  |                    |        |
| 6,950.0  | 6,909.9             | 6,886.3             | 6,726.3             | 17.2            | 27.9        | -68.80                | -542.1                            | -1,310.9   | 820.7                | 791.9                 | 28.72            | 28.570  |                    |        |
| 7,000.0  | 6,958.4             | 6,933.4             | 6,772.1             | 17.2            | 28.2        | -76.40                | -546.3                            | -1,321.0   | 828.7                | 800.0                 | 28.75            | 28.826  |                    |        |
| 7,050.0  | 7,005.8             | 6,978.9             | 6,816.4             | 17.1            | 28.4        | -80.73                | -550.4                            | -1,330.9   | 837.4                | 808.7                 | 28.71            | 29.174  |                    |        |
| 7,100.0  | 7,051.7             | 7,022.6             | 6,858.9             | 17.1            | 28.6        | -83.61                | -554.3                            | -1,340.3   | 847.0                | 818.3                 | 28.62            | 29.594  |                    |        |
| 7,150.0  | 7,095.8             | 7,064.2             | 6,899.3             | 17.0            | 28.7        | -85.69                | -558.0                            | -1,349.2   | 857.5                | 829.0                 | 28.52            | 30.065  |                    |        |
| 7,200.0  | 7,137.6             | 7,103.2             | 6,937.2             | 16.9            | 28.9        | -87.24                | -561.5                            | -1,357.6   | 869.3                | 840.9                 | 28.44            | 30.567  |                    |        |
| 7,250.0  | 7,176.9             | 7,139.4             | 6,972.4             | 16.8            | 29.1        | -88.36                | -564.7                            | -1,365.4   | 882.6                | 854.2                 | 28.40            | 31.078  |                    |        |
| 7,300.0  | 7,213.4             | 7,174.9             | 7,007.0             | 16.7            | 29.2        | -89.19                | -567.9                            | -1,373.1   | 897.6                | 869.2                 | 28.39            | 31.611  |                    |        |
| 7,350.0  | 7,246.8             | 7,232.5             | 7,063.1             | 16.6            | 29.5        | -90.82                | -569.6                            | -1,385.7   | 913.8                | 885.6                 | 28.20            | 32.403  |                    |        |
| 7,400.0  | 7,276.9             | 7,299.3             | 7,128.1             | 16.5            | 29.7        | -92.58                | -564.3                            | -1,400.5   | 930.7                | 902.7                 | 27.97            | 33.273  |                    |        |
| 7,450.0  | 7,303.4             | 7,379.8             | 7,204.7             | 16.4            | 29.9        | -94.62                | -547.7                            | -1,418.3   | 948.0                | 920.3                 | 27.66            | 34.267  |                    |        |
| 7,500.0  | 7,326.1             | 7,480.2             | 7,295.8             | 16.4            | 30.1        | -97.06                | -511.8                            | -1,440.0   | 964.9                | 937.7                 | 27.25            | 35.408  |                    |        |
| 7,550.0  | 7,344.8             | 7,609.7             | 7,401.6             | 16.4            | 30.2        | -99.85                | -442.5                            | -1,466.3   | 980.5                | 953.8                 | 26.72            | 36.700  |                    |        |
| 7,600.0  | 7,359.5             | 7,777.1             | 7,511.1             | 16.4            | 30.3        | -102.49               | -319.9                            | -1,495.2   | 993.1                | 966.9                 | 26.20            | 37.907  |                    |        |
| 7,650.0  | 7,370.0             | 7,980.7             | 7,590.5             | 16.5            | 30.4        | -103.81               | -135.3                            | -1,519.5   | 1,000.5              | 974.4                 | 26.14            | 38.269  |                    |        |
| 7,700.0  | 7,376.1             | 8,134.5             | 7,606.0             | 16.6            | 30.6        | -103.35               | 17.1                              | -1,528.3   | 1,001.9              | 975.2                 | 26.66            | 37.581  |                    |        |
| 7,746.2  | 7,378.0             | 8,180.7             | 7,606.0             | 16.8            | 30.7        | -103.15               | 63.2                              | -1,529.9   | 1,002.9              | 976.0                 | 26.94            | 37.233  |                    |        |
| 7,800.0  | 7,378.0             | 8,234.4             | 7,606.0             | 17.0            | 30.8        | -103.12               | 116.9                             | -1,531.8   | 1,004.7              | 977.3                 | 27.44            | 36.620  |                    |        |
| 7,900.0  | 7,378.0             | 8,334.3             | 7,606.0             | 17.5            | 31.1        | -103.08               | 216.8                             | -1,535.3   | 1,008.1              | 979.5                 | 28.64            | 35.198  |                    |        |
| 8,000.0  | 7,378.0             | 8,434.3             | 7,606.0             | 18.2            | 31.5        | -103.03               | 316.7                             | -1,538.8   | 1,011.5              | 981.3                 | 30.19            | 33.507  |                    |        |
| 8,100.0  | 7,378.0             | 8,534.2             | 7,606.0             | 19.0            | 32.0        | -102.99               | 416.6                             | -1,542.3   | 1,014.9              | 982.9                 | 32.03            | 31.690  |                    |        |
| 8,200.0  | 7,378.0             | 8,634.1             | 7,606.0             | 20.0            | 32.6        | -102.95               | 516.4                             | -1,545.7   | 1,018.3              | 984.2                 | 34.11            | 29.854  |                    |        |
| 8,300.0  | 7,378.0             | 8,734.1             | 7,606.0             | 21.0            | 33.2        | -102.90               | 616.3                             | -1,549.2   | 1,021.7              | 985.3                 | 36.40            | 28.071  |                    |        |
| 8,400.0  | 7,378.0             | 8,834.0             | 7,606.0             | 22.2            | 34.0        | -102.86               | 716.2                             | -1,552.7   | 1,025.1              | 986.3                 | 38.85            | 26.385  |                    |        |
| 8,500.0  | 7,378.0             | 8,934.0             | 7,606.0             | 23.4            | 34.8        | -102.82               | 816.1                             | -1,556.2   | 1,028.5              | 987.1                 | 41.45            | 24.816  |                    |        |
| 8,600.0  | 7,378.0             | 9,033.9             | 7,606.0             | 24.7            | 35.7        | -102.77               | 915.9                             | -1,559.7   | 1,031.9              | 987.8                 | 44.16            | 23.370  |                    |        |
| 8,700.0  | 7,378.0             | 9,133.8             | 7,606.0             | 26.0            | 36.6        | -102.73               | 1,015.8                           | -1,563.2   | 1,035.3              | 988.4                 | 46.96            | 22.048  |                    |        |
| 8,800.0  | 7,378.0             | 9,233.8             | 7,606.0             | 27.4            | 37.6        | -102.69               | 1,115.7                           | -1,566.7   | 1,038.7              | 988.9                 | 49.84            | 20.841  |                    |        |
| 8,900.0  | 7,378.0             | 9,333.7             | 7,606.0             | 28.8            | 38.7        | -102.64               | 1,215.6                           | -1,570.2   | 1,042.1              | 989.4                 | 52.79            | 19.742  |                    |        |
| 9,000.0  | 7,378.0             | 9,433.7             | 7,606.0             | 30.3            | 39.8        | -102.60               | 1,315.5                           | -1,573.6   | 1,045.5              | 989.8                 | 55.79            | 18.740  |                    |        |
| 9,100.0  | 7,378.0             | 9,533.6             | 7,606.0             | 31.7            | 41.0        | -102.56               | 1,415.3                           | -1,577.1   | 1,049.0              | 990.1                 | 58.84            | 17.826  |                    |        |
| 9,200.0  | 7,378.0             | 9,633.5             | 7,606.0             | 33.3            | 42.1        | -102.52               | 1,515.2                           | -1,580.6   | 1,052.4              | 990.4                 | 61.94            | 16.991  |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| <b>Offset Design</b> S32-T2N-R68W (File/Hwy 52) - File 3L-32H-K268 - Hz - Plan #3 |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD   |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference   |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                              |                      |                    |        |
| 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 | Warning            |        |
| 9,246.2   | 7,378.0                | 9,679.7                | 7,606.0                | 34.0              | 42.7           | -102.50                     | 1,561.4                                 | -1,582.2      | 1,053.9                    | 990.6                       | 63.38                        | 16.629               |                    |        |
| 9,300.0   | 7,378.0                | 9,733.5                | 7,606.0                | 34.8              | 43.4           | -102.48                     | 1,615.1                                 | -1,584.1      | 1,056.3                    | 991.8                       | 64.46                        | 16.387               |                    |        |
| 9,400.0   | 7,378.0                | 9,833.2                | 7,606.0                | 36.3              | 44.6           | -102.43                     | 1,714.8                                 | -1,587.6      | 1,063.2                    | 996.8                       | 66.42                        | 16.008               |                    |        |
| 9,503.1   | 7,378.0                | 9,935.7                | 7,606.0                | 37.9              | 46.0           | -102.35                     | 1,817.2                                 | -1,591.2      | 1,073.9                    | 1,005.5                     | 68.37                        | 15.706               |                    |        |
| 9,600.0   | 7,378.0                | 10,031.9               | 7,606.0                | 39.4              | 47.3           | -102.21                     | 1,913.3                                 | -1,594.5      | 1,085.7                    | 1,014.2                     | 71.46                        | 15.194               |                    |        |
| 9,700.0   | 7,378.0                | 10,131.1               | 7,606.0                | 41.0              | 48.6           | -102.08                     | 2,012.5                                 | -1,598.0      | 1,097.8                    | 1,023.2                     | 74.66                        | 14.704               |                    |        |
| 9,800.0   | 7,378.0                | 10,230.3               | 7,606.0                | 42.5              | 50.0           | -101.94                     | 2,111.6                                 | -1,601.4      | 1,110.0                    | 1,032.1                     | 77.89                        | 14.251               |                    |        |
| 9,900.0   | 7,378.0                | 10,329.5               | 7,606.0                | 44.1              | 51.4           | -101.81                     | 2,210.8                                 | -1,604.9      | 1,122.2                    | 1,041.0                     | 81.14                        | 13.830               |                    |        |
| 10,000.0  | 7,378.0                | 10,428.8               | 7,606.0                | 45.7              | 52.8           | -101.68                     | 2,309.9                                 | -1,608.4      | 1,134.3                    | 1,049.9                     | 84.41                        | 13.439               |                    |        |
| 10,100.0  | 7,378.0                | 10,528.0               | 7,606.0                | 47.4              | 54.2           | -101.56                     | 2,409.1                                 | -1,611.8      | 1,146.5                    | 1,058.8                     | 87.69                        | 13.075               |                    |        |
| 10,200.0  | 7,378.0                | 10,627.2               | 7,606.0                | 49.0              | 55.7           | -101.43                     | 2,508.3                                 | -1,615.3      | 1,158.7                    | 1,067.7                     | 90.98                        | 12.735               |                    |        |
| 10,300.0  | 7,378.0                | 10,726.4               | 7,606.0                | 50.6              | 57.2           | -101.31                     | 2,607.4                                 | -1,618.8      | 1,170.9                    | 1,076.6                     | 94.29                        | 12.417               |                    |        |
| 10,400.0  | 7,378.0                | 10,825.7               | 7,606.0                | 52.3              | 58.6           | -101.20                     | 2,706.6                                 | -1,622.2      | 1,183.1                    | 1,085.4                     | 97.61                        | 12.120               |                    |        |
| 10,500.0  | 7,378.0                | 10,924.9               | 7,606.0                | 53.9              | 60.1           | -101.08                     | 2,805.8                                 | -1,625.7      | 1,195.2                    | 1,094.3                     | 100.95                       | 11.840               |                    |        |
| 10,600.0  | 7,378.0                | 11,024.1               | 7,606.0                | 55.6              | 61.6           | -100.97                     | 2,904.9                                 | -1,629.1      | 1,207.4                    | 1,103.2                     | 104.29                       | 11.578               |                    |        |
| 10,700.0  | 7,378.0                | 11,123.3               | 7,606.0                | 57.2              | 63.2           | -100.86                     | 3,004.1                                 | -1,632.6      | 1,219.6                    | 1,112.0                     | 107.64                       | 11.331               |                    |        |
| 10,761.7  | 7,378.0                | 11,184.5               | 7,606.0                | 58.3              | 64.1           | -100.79                     | 3,065.2                                 | -1,634.7      | 1,227.2                    | 1,117.5                     | 109.71                       | 11.186 SF            |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3J-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |           | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-----------|--------------------|--------|
| Survey Program: O-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |           | Offset Well Error: | 0.0 ft |
| Reference  |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   | Total      |                      | Separation            |                  | Warning   |                    |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor    |                    |        |
| 0.0  | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | -90.00                | 0.0                               | -11.2      | 11.2                 |                       |                  |           |                    |        |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | -90.00                | 0.0                               | -11.2      | 11.2                 | 10.9                  | 0.30             | 36.850    |                    |        |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -90.00                | 0.0                               | -11.2      | 11.2                 | 10.5                  | 0.65             | 17.144    |                    |        |
| 233.5  | 233.5               | 233.5               | 233.5               | 0.4             | 0.4         | -90.00                | 0.0                               | -11.2      | 11.2                 | 10.4                  | 0.77             | 14.542 CC |                    |        |
| 300.0  | 300.0               | 299.9               | 299.9               | 0.5             | 0.5         | -90.49                | -0.1                              | -11.4      | 11.4                 | 10.4                  | 1.00             | 11.368 ES |                    |        |
| 400.0  | 400.0               | 399.7               | 399.7               | 0.7             | 0.7         | -93.83                | -0.9                              | -12.9      | 13.0                 | 11.6                  | 1.35             | 9.607     |                    |        |
| 450.0  | 450.0               | 449.6               | 449.5               | 0.8             | 0.8         | -96.15                | -1.5                              | -14.3      | 14.4                 | 12.9                  | 1.53             | 9.434     |                    |        |
| 500.0  | 500.0               | 499.4               | 499.3               | 0.9             | 0.9         | 35.24                 | -2.4                              | -16.1      | 16.1                 | 14.4                  | 1.70             | 9.453     |                    |        |
| 600.0  | 600.0               | 599.1               | 598.8               | 1.0             | 1.0         | 33.40                 | -4.7                              | -20.7      | 19.6                 | 17.6                  | 2.05             | 9.569     |                    |        |
| 700.0  | 699.9               | 698.6               | 698.2               | 1.2             | 1.3         | 33.27                 | -7.8                              | -26.9      | 23.4                 | 21.0                  | 2.40             | 9.732     |                    |        |
| 800.0  | 799.8               | 798.1               | 797.3               | 1.4             | 1.5         | 34.15                 | -11.6                             | -34.7      | 27.4                 | 24.6                  | 2.76             | 9.914     |                    |        |
| 900.0  | 899.5               | 897.5               | 896.2               | 1.6             | 1.7         | 35.65                 | -16.2                             | -44.0      | 31.6                 | 28.4                  | 3.12             | 10.101    |                    |        |
| 1,000.0  | 999.2               | 996.9               | 994.8               | 1.8             | 2.0         | 37.50                 | -21.6                             | -54.8      | 36.0                 | 32.5                  | 3.50             | 10.282    |                    |        |
| 1,108.4  | 1,106.9             | 1,104.4             | 1,101.3             | 2.1             | 2.3         | 39.74                 | -28.2                             | -68.2      | 41.2                 | 37.2                  | 3.93             | 10.459    |                    |        |
| 1,200.0  | 1,197.9             | 1,195.3             | 1,191.0             | 2.3             | 2.6         | 41.16                 | -34.5                             | -80.9      | 46.3                 | 42.0                  | 4.32             | 10.739    |                    |        |
| 1,300.0  | 1,297.3             | 1,294.3             | 1,288.5             | 2.5             | 2.9         | 41.62                 | -42.1                             | -96.2      | 53.5                 | 48.8                  | 4.73             | 11.308    |                    |        |
| 1,400.0  | 1,396.6             | 1,393.0             | 1,385.4             | 2.8             | 3.2         | 41.30                 | -50.4                             | -113.0     | 62.3                 | 57.1                  | 5.15             | 12.094    |                    |        |
| 1,500.0  | 1,496.0             | 1,491.5             | 1,481.8             | 3.0             | 3.6         | 40.52                 | -59.4                             | -131.3     | 72.6                 | 67.0                  | 5.56             | 13.057    |                    |        |
| 1,600.0  | 1,595.3             | 1,590.9             | 1,578.9             | 3.3             | 4.0         | 39.74                 | -68.8                             | -150.2     | 83.5                 | 77.5                  | 5.97             | 13.997    |                    |        |
| 1,700.0  | 1,694.7             | 1,690.3             | 1,676.0             | 3.5             | 4.4         | 39.14                 | -78.2                             | -169.2     | 94.4                 | 88.1                  | 6.37             | 14.816    |                    |        |
| 1,800.0  | 1,794.0             | 1,789.7             | 1,773.1             | 3.8             | 4.8         | 38.66                 | -87.6                             | -188.2     | 105.4                | 98.6                  | 6.78             | 15.536    |                    |        |
| 1,900.0  | 1,893.3             | 1,889.1             | 1,870.3             | 4.0             | 5.2         | 38.28                 | -97.0                             | -207.2     | 116.4                | 109.2                 | 7.20             | 16.172    |                    |        |
| 2,000.0  | 1,992.7             | 1,988.5             | 1,967.4             | 4.3             | 5.6         | 37.96                 | -106.4                            | -226.2     | 127.3                | 119.7                 | 7.61             | 16.739    |                    |        |
| 2,100.0  | 2,092.0             | 2,087.9             | 2,064.5             | 4.6             | 6.0         | 37.69                 | -115.8                            | -245.2     | 138.3                | 130.3                 | 8.02             | 17.247    |                    |        |
| 2,200.0  | 2,191.4             | 2,187.3             | 2,161.6             | 4.8             | 6.4         | 37.46                 | -125.2                            | -264.2     | 149.3                | 140.8                 | 8.43             | 17.705    |                    |        |
| 2,300.0  | 2,290.7             | 2,286.7             | 2,258.7             | 5.1             | 6.8         | 37.26                 | -134.6                            | -283.1     | 160.2                | 151.4                 | 8.84             | 18.119    |                    |        |
| 2,400.0  | 2,390.0             | 2,386.0             | 2,355.8             | 5.3             | 7.2         | 37.09                 | -144.0                            | -302.1     | 171.2                | 162.0                 | 9.26             | 18.496    |                    |        |
| 2,500.0  | 2,489.4             | 2,485.4             | 2,452.9             | 5.6             | 7.6         | 36.94                 | -153.4                            | -321.1     | 182.2                | 172.5                 | 9.67             | 18.840    |                    |        |
| 2,600.0  | 2,588.7             | 2,584.8             | 2,550.0             | 5.9             | 8.0         | 36.80                 | -162.8                            | -340.1     | 193.2                | 183.1                 | 10.08            | 19.156    |                    |        |
| 2,700.0  | 2,688.1             | 2,684.2             | 2,647.1             | 6.1             | 8.5         | 36.68                 | -172.2                            | -359.1     | 204.1                | 193.6                 | 10.50            | 19.446    |                    |        |
| 2,800.0  | 2,787.4             | 2,783.6             | 2,744.3             | 6.4             | 8.9         | 36.58                 | -181.6                            | -378.1     | 215.1                | 204.2                 | 10.91            | 19.715    |                    |        |
| 2,900.0  | 2,886.7             | 2,883.0             | 2,841.4             | 6.7             | 9.3         | 36.48                 | -191.0                            | -397.1     | 226.1                | 214.8                 | 11.33            | 19.963    |                    |        |
| 3,000.0  | 2,986.1             | 2,982.4             | 2,938.5             | 6.9             | 9.7         | 36.39                 | -200.4                            | -416.0     | 237.1                | 225.3                 | 11.74            | 20.194    |                    |        |
| 3,100.0  | 3,085.4             | 3,081.8             | 3,035.6             | 7.2             | 10.1        | 36.31                 | -209.8                            | -435.0     | 248.1                | 235.9                 | 12.15            | 20.408    |                    |        |
| 3,200.0  | 3,184.8             | 3,181.2             | 3,132.7             | 7.5             | 10.5        | 36.24                 | -219.2                            | -454.0     | 259.0                | 246.5                 | 12.57            | 20.609    |                    |        |
| 3,300.0  | 3,284.1             | 3,280.6             | 3,229.8             | 7.7             | 10.9        | 36.17                 | -228.6                            | -473.0     | 270.0                | 257.0                 | 12.98            | 20.796    |                    |        |
| 3,400.0  | 3,383.4             | 3,380.0             | 3,326.9             | 8.0             | 11.3        | 36.11                 | -238.0                            | -492.0     | 281.0                | 267.6                 | 13.40            | 20.972    |                    |        |
| 3,500.0  | 3,482.8             | 3,479.4             | 3,424.0             | 8.2             | 11.7        | 36.05                 | -247.4                            | -511.0     | 292.0                | 278.2                 | 13.81            | 21.136    |                    |        |
| 3,600.0  | 3,582.1             | 3,578.8             | 3,521.1             | 8.5             | 12.2        | 35.99                 | -256.8                            | -530.0     | 303.0                | 288.7                 | 14.23            | 21.292    |                    |        |
| 3,700.0  | 3,681.5             | 3,678.2             | 3,618.3             | 8.8             | 12.6        | 35.94                 | -266.2                            | -548.9     | 313.9                | 299.3                 | 14.64            | 21.438    |                    |        |
| 3,800.0  | 3,780.8             | 3,777.6             | 3,715.4             | 9.0             | 13.0        | 35.90                 | -275.6                            | -567.9     | 324.9                | 309.9                 | 15.06            | 21.576    |                    |        |
| 3,900.0  | 3,880.1             | 3,877.0             | 3,812.5             | 9.3             | 13.4        | 35.86                 | -284.9                            | -586.9     | 335.9                | 320.4                 | 15.47            | 21.707    |                    |        |
| 4,000.0  | 3,979.5             | 3,976.4             | 3,909.6             | 9.6             | 13.8        | 35.81                 | -294.3                            | -605.9     | 346.9                | 331.0                 | 15.89            | 21.831    |                    |        |
| 4,100.0  | 4,078.8             | 4,075.8             | 4,006.7             | 9.8             | 14.2        | 35.78                 | -303.7                            | -624.9     | 357.9                | 341.6                 | 16.31            | 21.948    |                    |        |
| 4,200.0  | 4,178.2             | 4,175.2             | 4,103.8             | 10.1            | 14.6        | 35.74                 | -313.1                            | -643.9     | 368.8                | 352.1                 | 16.72            | 22.060    |                    |        |
| 4,300.0  | 4,277.5             | 4,274.6             | 4,200.9             | 10.4            | 15.0        | 35.71                 | -322.5                            | -662.9     | 379.8                | 362.7                 | 17.14            | 22.166    |                    |        |
| 4,400.0  | 4,376.8             | 4,373.9             | 4,298.0             | 10.6            | 15.5        | 35.68                 | -331.9                            | -681.8     | 390.8                | 373.3                 | 17.55            | 22.267    |                    |        |
| 4,500.0  | 4,476.2             | 4,473.3             | 4,395.1             | 10.9            | 15.9        | 35.64                 | -341.3                            | -700.8     | 401.8                | 383.8                 | 17.97            | 22.363    |                    |        |
| 4,600.0  | 4,575.5             | 4,572.7             | 4,492.3             | 11.2            | 16.3        | 35.62                 | -350.7                            | -719.8     | 412.8                | 394.4                 | 18.38            | 22.455    |                    |        |
| 4,700.0  | 4,674.9             | 4,672.1             | 4,589.4             | 11.4            | 16.7        | 35.59                 | -360.1                            | -738.8     | 423.8                | 405.0                 | 18.80            | 22.542    |                    |        |
| 4,800.0  | 4,774.2             | 4,771.5             | 4,686.5             | 11.7            | 17.1        | 35.56                 | -369.5                            | -757.8     | 434.7                | 415.5                 | 19.21            | 22.626    |                    |        |
| 4,900.0  | 4,873.5             | 4,870.9             | 4,783.6             | 12.0            | 17.5        | 35.54                 | -378.9                            | -776.8     | 445.7                | 426.1                 | 19.63            | 22.707    |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3J-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |  |
| 5,000.0  | 4,972.9             | 4,970.3             | 4,880.7             | 12.2            | 17.9        | 35.52                 | -388.3                            | -795.8     | 456.7                | 436.7                 | 20.05                  | 22.784            |                           |  |
| 5,100.0  | 5,072.2             | 5,069.7             | 4,977.8             | 12.5            | 18.3        | 35.49                 | -397.7                            | -814.7     | 467.7                | 447.2                 | 20.46                  | 22.857            |                           |  |
| 5,200.0  | 5,171.6             | 5,169.1             | 5,074.9             | 12.7            | 18.8        | 35.47                 | -407.1                            | -833.7     | 478.7                | 457.8                 | 20.88                  | 22.928            |                           |  |
| 5,300.0  | 5,270.9             | 5,268.5             | 5,172.0             | 13.0            | 19.2        | 35.45                 | -416.5                            | -852.7     | 489.7                | 468.4                 | 21.29                  | 22.996            |                           |  |
| 5,400.0  | 5,370.3             | 5,367.9             | 5,269.1             | 13.3            | 19.6        | 35.43                 | -425.9                            | -871.7     | 500.6                | 478.9                 | 21.71                  | 23.062            |                           |  |
| 5,500.0  | 5,469.6             | 5,467.3             | 5,366.3             | 13.5            | 20.0        | 35.41                 | -435.3                            | -890.7     | 511.6                | 489.5                 | 22.12                  | 23.125            |                           |  |
| 5,600.0  | 5,568.9             | 5,566.7             | 5,463.4             | 13.8            | 20.4        | 35.40                 | -444.7                            | -909.7     | 522.6                | 500.1                 | 22.54                  | 23.185            |                           |  |
| 5,700.0  | 5,668.3             | 5,666.1             | 5,560.5             | 14.1            | 20.8        | 35.38                 | -454.1                            | -928.7     | 533.6                | 510.6                 | 22.96                  | 23.244            |                           |  |
| 5,800.0  | 5,767.6             | 5,765.5             | 5,657.6             | 14.3            | 21.2        | 35.36                 | -463.5                            | -947.7     | 544.6                | 521.2                 | 23.37                  | 23.300            |                           |  |
| 5,900.0  | 5,867.0             | 5,864.9             | 5,754.7             | 14.6            | 21.7        | 35.35                 | -472.9                            | -966.6     | 555.6                | 531.8                 | 23.79                  | 23.354            |                           |  |
| 6,000.0  | 5,966.3             | 5,964.3             | 5,851.8             | 14.9            | 22.1        | 35.33                 | -482.3                            | -985.6     | 566.5                | 542.3                 | 24.20                  | 23.407            |                           |  |
| 6,100.0  | 6,065.6             | 6,063.7             | 5,948.9             | 15.1            | 22.5        | 35.32                 | -491.7                            | -1,004.6   | 577.5                | 552.9                 | 24.62                  | 23.457            |                           |  |
| 6,200.0  | 6,165.0             | 6,163.1             | 6,046.0             | 15.4            | 22.9        | 35.30                 | -501.1                            | -1,023.6   | 588.5                | 563.5                 | 25.04                  | 23.506            |                           |  |
| 6,300.0  | 6,264.3             | 6,262.4             | 6,143.1             | 15.7            | 23.3        | 35.29                 | -510.5                            | -1,042.6   | 599.5                | 574.0                 | 25.45                  | 23.554            |                           |  |
| 6,400.0  | 6,363.7             | 6,361.8             | 6,240.3             | 15.9            | 23.7        | 35.28                 | -519.9                            | -1,061.6   | 610.5                | 584.6                 | 25.87                  | 23.600            |                           |  |
| 6,500.0  | 6,463.0             | 6,461.2             | 6,337.4             | 16.2            | 24.1        | 35.27                 | -529.3                            | -1,080.6   | 621.5                | 595.2                 | 26.28                  | 23.644            |                           |  |
| 6,600.0  | 6,562.3             | 6,560.6             | 6,434.5             | 16.5            | 24.6        | 35.25                 | -538.7                            | -1,099.5   | 632.5                | 605.8                 | 26.70                  | 23.687            |                           |  |
| 6,700.0  | 6,661.7             | 6,660.0             | 6,531.6             | 16.7            | 25.0        | 35.24                 | -548.1                            | -1,118.5   | 643.4                | 616.3                 | 27.12                  | 23.728            |                           |  |
| 6,801.1  | 6,762.1             | 6,760.5             | 6,629.8             | 17.0            | 25.4        | 35.23                 | -557.6                            | -1,137.7   | 654.5                | 627.0                 | 27.54                  | 23.769            |                           |  |
| 6,850.0  | 6,810.8             | 6,809.0             | 6,677.2             | 17.1            | 25.6        | -12.01                | -562.1                            | -1,147.0   | 660.2                | 632.4                 | 27.81                  | 23.741            |                           |  |
| 6,900.0  | 6,860.5             | 6,858.2             | 6,725.2             | 17.2            | 25.8        | -55.59                | -566.8                            | -1,156.4   | 666.6                | 638.6                 | 27.98                  | 23.826            |                           |  |
| 6,950.0  | 6,909.9             | 6,908.8             | 6,774.7             | 17.2            | 26.0        | -72.69                | -571.4                            | -1,166.0   | 673.6                | 645.6                 | 28.03                  | 24.032            |                           |  |
| 7,000.0  | 6,958.4             | 6,968.7             | 6,833.4             | 17.2            | 26.2        | -80.53                | -572.7                            | -1,177.5   | 680.8                | 652.9                 | 27.97                  | 24.342            |                           |  |
| 7,050.0  | 7,005.8             | 7,030.4             | 6,893.7             | 17.1            | 26.4        | -84.90                | -567.4                            | -1,189.3   | 688.0                | 660.1                 | 27.86                  | 24.690            |                           |  |
| 7,100.0  | 7,051.7             | 7,094.0             | 6,954.9             | 17.1            | 26.5        | -87.66                | -555.1                            | -1,201.3   | 694.9                | 667.2                 | 27.72                  | 25.067            |                           |  |
| 7,150.0  | 7,095.8             | 7,159.3             | 7,016.0             | 17.0            | 26.6        | -89.51                | -535.4                            | -1,213.2   | 701.5                | 673.9                 | 27.54                  | 25.468            |                           |  |
| 7,200.0  | 7,137.6             | 7,226.3             | 7,075.9             | 16.9            | 26.6        | -90.79                | -507.9                            | -1,224.9   | 707.6                | 680.2                 | 27.34                  | 25.880            |                           |  |
| 7,250.0  | 7,176.9             | 7,294.7             | 7,133.4             | 16.8            | 26.6        | -91.67                | -472.7                            | -1,236.2   | 713.2                | 686.0                 | 27.13                  | 26.286            |                           |  |
| 7,300.0  | 7,213.4             | 7,364.3             | 7,187.3             | 16.7            | 26.6        | -92.22                | -430.0                            | -1,246.7   | 718.1                | 691.1                 | 26.92                  | 26.670            |                           |  |
| 7,350.0  | 7,246.8             | 7,434.7             | 7,236.2             | 16.6            | 26.5        | -92.52                | -380.4                            | -1,256.3   | 722.3                | 695.5                 | 26.74                  | 27.013            |                           |  |
| 7,400.0  | 7,276.9             | 7,505.6             | 7,279.1             | 16.5            | 26.5        | -92.59                | -324.6                            | -1,264.7   | 725.7                | 699.1                 | 26.59                  | 27.294            |                           |  |
| 7,450.0  | 7,303.4             | 7,576.5             | 7,314.9             | 16.4            | 26.4        | -92.47                | -263.8                            | -1,271.7   | 728.3                | 701.8                 | 26.50                  | 27.485            |                           |  |
| 7,500.0  | 7,326.1             | 7,647.1             | 7,342.9             | 16.4            | 26.4        | -92.18                | -199.3                            | -1,277.1   | 730.1                | 703.6                 | 26.47                  | 27.581            |                           |  |
| 7,550.0  | 7,344.8             | 7,716.8             | 7,362.7             | 16.4            | 26.4        | -91.73                | -132.6                            | -1,281.0   | 731.1                | 704.6                 | 26.54                  | 27.545            |                           |  |
| 7,600.0  | 7,359.5             | 7,785.5             | 7,374.4             | 16.4            | 26.4        | -91.16                | -65.0                             | -1,283.3   | 731.3                | 704.6                 | 26.70                  | 27.387            |                           |  |
| 7,650.0  | 7,370.0             | 7,852.2             | 7,378.0             | 16.5            | 26.5        | -90.49                | 1.5                               | -1,284.0   | 730.8                | 703.9                 | 26.96                  | 27.107            |                           |  |
| 7,700.0  | 7,376.1             | 7,901.8             | 7,378.0             | 16.6            | 26.5        | -90.11                | 51.1                              | -1,284.0   | 730.3                | 703.0                 | 27.26                  | 26.787            |                           |  |
| 7,746.2  | 7,378.0             | 7,948.0             | 7,378.0             | 16.8            | 26.6        | -90.00                | 97.3                              | -1,284.0   | 730.1                | 702.5                 | 27.63                  | 26.425            |                           |  |
| 7,800.0  | 7,378.0             | 8,001.7             | 7,378.0             | 17.0            | 26.8        | -90.00                | 151.1                             | -1,284.0   | 730.1                | 702.0                 | 28.13                  | 25.951            |                           |  |
| 7,900.0  | 7,378.0             | 8,101.7             | 7,378.0             | 17.5            | 27.1        | -90.00                | 251.1                             | -1,284.0   | 730.1                | 700.7                 | 29.42                  | 24.819            |                           |  |
| 8,000.0  | 7,378.0             | 8,201.7             | 7,378.0             | 18.2            | 27.5        | -90.00                | 351.1                             | -1,284.0   | 730.1                | 699.1                 | 31.05                  | 23.518            |                           |  |
| 8,100.0  | 7,378.0             | 8,301.7             | 7,378.0             | 19.0            | 28.1        | -90.00                | 451.1                             | -1,284.0   | 730.1                | 697.2                 | 32.97                  | 22.146            |                           |  |
| 8,200.0  | 7,378.0             | 8,401.7             | 7,378.0             | 20.0            | 28.7        | -90.00                | 551.1                             | -1,284.0   | 730.1                | 695.0                 | 35.14                  | 20.780            |                           |  |
| 8,300.0  | 7,378.0             | 8,501.7             | 7,378.0             | 21.0            | 29.4        | -90.00                | 651.1                             | -1,284.0   | 730.1                | 692.6                 | 37.51                  | 19.466            |                           |  |
| 8,400.0  | 7,378.0             | 8,601.7             | 7,378.0             | 22.2            | 30.2        | -90.00                | 751.1                             | -1,284.0   | 730.1                | 690.1                 | 40.05                  | 18.232            |                           |  |
| 8,500.0  | 7,378.0             | 8,701.7             | 7,378.0             | 23.4            | 31.1        | -90.00                | 851.1                             | -1,284.0   | 730.1                | 687.4                 | 42.72                  | 17.090            |                           |  |
| 8,600.0  | 7,378.0             | 8,801.7             | 7,378.0             | 24.7            | 32.1        | -90.00                | 951.1                             | -1,284.0   | 730.1                | 684.6                 | 45.51                  | 16.042            |                           |  |
| 8,700.0  | 7,378.0             | 8,901.7             | 7,378.0             | 26.0            | 33.1        | -90.00                | 1,051.1                           | -1,284.0   | 730.1                | 681.7                 | 48.40                  | 15.087            |                           |  |
| 8,800.0  | 7,378.0             | 9,001.7             | 7,378.0             | 27.4            | 34.2        | -90.00                | 1,151.1                           | -1,284.0   | 730.1                | 678.8                 | 51.36                  | 14.217            |                           |  |
| 8,900.0  | 7,378.0             | 9,101.7             | 7,378.0             | 28.8            | 35.3        | -90.00                | 1,251.1                           | -1,284.0   | 730.1                | 675.7                 | 54.38                  | 13.426            |                           |  |
| 9,000.0  | 7,378.0             | 9,201.7             | 7,378.0             | 30.3            | 36.5        | -90.00                | 1,351.1                           | -1,284.0   | 730.1                | 672.7                 | 57.46                  | 12.706            |                           |  |
| 9,100.0  | 7,378.0             | 9,301.7             | 7,378.0             | 31.7            | 37.8        | -90.00                | 1,451.1                           | -1,284.0   | 730.1                | 669.5                 | 60.59                  | 12.050            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| <b>Offset Design</b> S32-T2N-R68W (File/Hwy 52) - File 3J-32H-K268 - Hz - Plan #2 |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              | <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                                |               |                            |                             |                              |                           | 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      |         |
| 9,200.0   | 7,378.0                | 9,401.7                | 7,378.0                | 33.3              | 39.0           | -90.00                      | 1,551.1                                 | -1,284.0      | 730.1                      | 666.4                       | 63.76                        | 11.452                    |         |
| 9,246.2   | 7,378.0                | 9,448.0                | 7,378.0                | 34.0              | 39.6           | -90.00                      | 1,597.3                                 | -1,284.0      | 730.1                      | 664.9                       | 65.23                        | 11.192                    |         |
| 9,246.2   | 7,378.0                | 9,448.0                | 7,378.0                | 34.0              | 39.6           | -90.00                      | 1,597.3                                 | -1,284.0      | 730.1                      | 664.9                       | 65.24                        | 11.192                    |         |
| 9,300.0   | 7,378.0                | 9,501.7                | 7,378.0                | 34.8              | 40.4           | -90.00                      | 1,651.1                                 | -1,284.0      | 730.6                      | 664.2                       | 66.42                        | 10.999                    |         |
| 9,400.0   | 7,378.0                | 9,601.7                | 7,378.0                | 36.3              | 41.7           | -90.00                      | 1,751.0                                 | -1,284.0      | 734.2                      | 665.6                       | 68.60                        | 10.703                    |         |
| 9,503.1   | 7,378.0                | 9,704.5                | 7,378.0                | 37.9              | 43.1           | -90.00                      | 1,853.9                                 | -1,284.0      | 741.6                      | 670.9                       | 70.78                        | 10.478                    |         |
| 9,600.0   | 7,378.0                | 9,801.0                | 7,378.0                | 39.4              | 44.5           | -90.00                      | 1,950.3                                 | -1,284.0      | 750.3                      | 676.4                       | 73.92                        | 10.151                    |         |
| 9,700.0   | 7,378.0                | 9,900.6                | 7,378.0                | 41.0              | 45.9           | -90.00                      | 2,049.9                                 | -1,284.0      | 759.3                      | 682.1                       | 77.18                        | 9.838                     |         |
| 9,800.0   | 7,378.0                | 10,000.2               | 7,378.0                | 42.5              | 47.3           | -90.00                      | 2,149.5                                 | -1,284.0      | 768.2                      | 687.8                       | 80.46                        | 9.548                     |         |
| 9,900.0   | 7,378.0                | 10,099.8               | 7,378.0                | 44.1              | 48.8           | -90.00                      | 2,249.1                                 | -1,284.0      | 777.2                      | 693.4                       | 83.76                        | 9.278                     |         |
| 10,000.0  | 7,378.0                | 10,199.4               | 7,378.0                | 45.7              | 50.3           | -90.00                      | 2,348.7                                 | -1,284.0      | 786.1                      | 699.0                       | 87.08                        | 9.028                     |         |
| 10,100.0  | 7,378.0                | 10,299.0               | 7,378.0                | 47.4              | 51.8           | -90.00                      | 2,448.3                                 | -1,284.0      | 795.1                      | 704.7                       | 90.41                        | 8.794                     |         |
| 10,200.0  | 7,378.0                | 10,398.6               | 7,378.0                | 49.0              | 53.3           | -90.00                      | 2,547.9                                 | -1,284.0      | 804.0                      | 710.3                       | 93.75                        | 8.576                     |         |
| 10,300.0  | 7,378.0                | 10,498.2               | 7,378.0                | 50.6              | 54.8           | -90.00                      | 2,647.5                                 | -1,284.0      | 813.0                      | 715.9                       | 97.10                        | 8.372                     |         |
| 10,400.0  | 7,378.0                | 10,597.8               | 7,378.0                | 52.3              | 56.4           | -90.00                      | 2,747.1                                 | -1,284.0      | 821.9                      | 721.5                       | 100.47                       | 8.181                     |         |
| 10,500.0  | 7,378.0                | 10,697.4               | 7,378.0                | 53.9              | 57.9           | -90.00                      | 2,846.7                                 | -1,284.0      | 830.9                      | 727.1                       | 103.84                       | 8.002                     |         |
| 10,600.0  | 7,378.0                | 10,797.0               | 7,378.0                | 55.6              | 59.5           | -90.00                      | 2,946.3                                 | -1,284.0      | 839.9                      | 732.6                       | 107.22                       | 7.833                     |         |
| 10,700.0  | 7,378.0                | 10,896.6               | 7,378.0                | 57.2              | 61.0           | -90.00                      | 3,045.9                                 | -1,284.0      | 848.8                      | 738.2                       | 110.61                       | 7.674                     |         |
| 10,761.7  | 7,378.0                | 10,958.0               | 7,378.0                | 58.3              | 62.0           | -90.00                      | 3,107.3                                 | -1,284.0      | 854.3                      | 741.6                       | 112.70                       | 7.580 SF                  |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3K-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | 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         | -123.07               | -3.6                              | -5.6       | 6.7                  |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | -123.07               | -3.6                              | -5.6       | 6.7                  | 6.4                   | 0.30                   | 21.986            |                           |         |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | -123.07               | -3.6                              | -5.6       | 6.7                  | 6.0                   | 0.65                   | 10.229            |                           |         |
| 300.0  | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | -123.07               | -3.6                              | -5.6       | 6.7                  | 5.7                   | 1.00                   | 6.665             |                           |         |
| 333.3  | 333.3               | 333.3               | 333.3               | 0.6             | 0.6         | -123.07               | -3.6                              | -5.6       | 6.7                  | 5.6                   | 1.12                   | 5.971 CC          |                           |         |
| 400.0  | 400.0               | 399.9               | 399.9               | 0.7             | 0.7         | -123.10               | -3.8                              | -5.8       | 6.9                  | 5.5                   | 1.35                   | 5.104 ES          |                           |         |
| 450.0  | 450.0               | 449.9               | 449.9               | 0.8             | 0.8         | -123.18               | -4.1                              | -6.3       | 7.5                  | 6.0                   | 1.53                   | 4.947 SF          |                           |         |
| 500.0  | 500.0               | 499.8               | 499.8               | 0.9             | 0.9         | 10.30                 | -4.7                              | -7.2       | 8.4                  | 6.7                   | 1.70                   | 4.956             |                           |         |
| 600.0  | 600.0               | 599.6               | 599.5               | 1.0             | 1.0         | 11.70                 | -6.7                              | -10.1      | 10.2                 | 8.1                   | 2.05                   | 4.977             |                           |         |
| 700.0  | 699.9               | 699.4               | 699.2               | 1.2             | 1.2         | 14.01                 | -9.6                              | -14.4      | 12.0                 | 9.6                   | 2.40                   | 5.010             |                           |         |
| 800.0  | 799.8               | 799.2               | 798.7               | 1.4             | 1.4         | 16.86                 | -13.5                             | -20.2      | 13.9                 | 11.1                  | 2.75                   | 5.057             |                           |         |
| 900.0  | 899.5               | 898.9               | 898.0               | 1.6             | 1.6         | 20.00                 | -18.4                             | -27.4      | 15.9                 | 12.8                  | 3.10                   | 5.118             |                           |         |
| 1,000.0  | 999.2               | 998.6               | 997.2               | 1.8             | 1.9         | 23.29                 | -24.2                             | -36.0      | 18.0                 | 14.5                  | 3.46                   | 5.189             |                           |         |
| 1,108.4  | 1,106.9             | 1,106.5             | 1,104.3             | 2.1             | 2.1         | 26.91                 | -31.6                             | -46.9      | 20.4                 | 16.5                  | 3.87                   | 5.272             |                           |         |
| 1,200.0  | 1,197.9             | 1,197.8             | 1,194.7             | 2.3             | 2.4         | 29.05                 | -38.7                             | -57.5      | 23.3                 | 19.0                  | 4.23                   | 5.501             |                           |         |
| 1,300.0  | 1,297.3             | 1,297.3             | 1,293.0             | 2.5             | 2.7         | 29.61                 | -47.4                             | -70.3      | 27.9                 | 23.3                  | 4.62                   | 6.053             |                           |         |
| 1,400.0  | 1,396.6             | 1,397.2             | 1,391.5             | 2.8             | 3.0         | 29.57                 | -56.5                             | -83.8      | 33.3                 | 28.3                  | 5.00                   | 6.654             |                           |         |
| 1,500.0  | 1,496.0             | 1,497.0             | 1,490.1             | 3.0             | 3.3         | 29.54                 | -65.6                             | -97.3      | 38.7                 | 33.3                  | 5.39                   | 7.167             |                           |         |
| 1,600.0  | 1,595.3             | 1,596.9             | 1,588.6             | 3.3             | 3.6         | 29.52                 | -74.8                             | -110.8     | 44.0                 | 38.2                  | 5.78                   | 7.608             |                           |         |
| 1,700.0  | 1,694.7             | 1,696.8             | 1,687.1             | 3.5             | 4.0         | 29.51                 | -83.9                             | -124.3     | 49.4                 | 43.2                  | 6.18                   | 7.992             |                           |         |
| 1,800.0  | 1,794.0             | 1,796.6             | 1,785.6             | 3.8             | 4.3         | 29.49                 | -93.0                             | -137.7     | 54.7                 | 48.2                  | 6.57                   | 8.329             |                           |         |
| 1,900.0  | 1,893.3             | 1,896.5             | 1,884.1             | 4.0             | 4.6         | 29.48                 | -102.1                            | -151.2     | 60.1                 | 53.1                  | 6.96                   | 8.626             |                           |         |
| 2,000.0  | 1,992.7             | 1,996.3             | 1,982.7             | 4.3             | 4.9         | 29.47                 | -111.2                            | -164.7     | 65.4                 | 58.1                  | 7.36                   | 8.891             |                           |         |
| 2,100.0  | 2,092.0             | 2,096.2             | 2,081.2             | 4.6             | 5.3         | 29.46                 | -120.3                            | -178.2     | 70.8                 | 63.0                  | 7.76                   | 9.128             |                           |         |
| 2,200.0  | 2,191.4             | 2,196.0             | 2,179.7             | 4.8             | 5.6         | 29.46                 | -129.5                            | -191.7     | 76.2                 | 68.0                  | 8.15                   | 9.341             |                           |         |
| 2,300.0  | 2,290.7             | 2,295.9             | 2,278.2             | 5.1             | 5.9         | 29.45                 | -138.6                            | -205.2     | 81.5                 | 73.0                  | 8.55                   | 9.534             |                           |         |
| 2,400.0  | 2,390.0             | 2,395.8             | 2,376.8             | 5.3             | 6.2         | 29.45                 | -147.7                            | -218.6     | 86.9                 | 77.9                  | 8.95                   | 9.710             |                           |         |
| 2,500.0  | 2,489.4             | 2,495.6             | 2,475.3             | 5.6             | 6.6         | 29.44                 | -156.8                            | -232.1     | 92.2                 | 82.9                  | 9.34                   | 9.870             |                           |         |
| 2,600.0  | 2,588.7             | 2,595.5             | 2,573.8             | 5.9             | 6.9         | 29.44                 | -165.9                            | -245.6     | 97.6                 | 87.8                  | 9.74                   | 10.017            |                           |         |
| 2,700.0  | 2,688.1             | 2,695.3             | 2,672.3             | 6.1             | 7.2         | 29.43                 | -175.0                            | -259.1     | 102.9                | 92.8                  | 10.14                  | 10.152            |                           |         |
| 2,800.0  | 2,787.4             | 2,795.2             | 2,770.8             | 6.4             | 7.6         | 29.43                 | -184.1                            | -272.6     | 108.3                | 97.8                  | 10.54                  | 10.277            |                           |         |
| 2,900.0  | 2,886.7             | 2,895.0             | 2,869.4             | 6.7             | 7.9         | 29.43                 | -193.3                            | -286.1     | 113.7                | 102.7                 | 10.94                  | 10.392            |                           |         |
| 3,000.0  | 2,986.1             | 2,994.9             | 2,967.9             | 6.9             | 8.2         | 29.43                 | -202.4                            | -299.5     | 119.0                | 107.7                 | 11.34                  | 10.499            |                           |         |
| 3,100.0  | 3,085.4             | 3,094.7             | 3,066.4             | 7.2             | 8.6         | 29.42                 | -211.5                            | -313.0     | 124.4                | 112.6                 | 11.73                  | 10.599            |                           |         |
| 3,200.0  | 3,184.8             | 3,194.6             | 3,164.9             | 7.5             | 8.9         | 29.42                 | -220.6                            | -326.5     | 129.7                | 117.6                 | 12.13                  | 10.692            |                           |         |
| 3,300.0  | 3,284.1             | 3,294.5             | 3,263.4             | 7.7             | 9.2         | 29.42                 | -229.7                            | -340.0     | 135.1                | 122.6                 | 12.53                  | 10.779            |                           |         |
| 3,400.0  | 3,383.4             | 3,394.3             | 3,362.0             | 8.0             | 9.6         | 29.42                 | -238.8                            | -353.5     | 140.4                | 127.5                 | 12.93                  | 10.860            |                           |         |
| 3,500.0  | 3,482.8             | 3,494.2             | 3,460.5             | 8.2             | 9.9         | 29.41                 | -248.0                            | -367.0     | 145.8                | 132.5                 | 13.33                  | 10.937            |                           |         |
| 3,600.0  | 3,582.1             | 3,594.0             | 3,559.0             | 8.5             | 10.2        | 29.41                 | -257.1                            | -380.4     | 151.2                | 137.4                 | 13.73                  | 11.009            |                           |         |
| 3,700.0  | 3,681.5             | 3,693.9             | 3,657.5             | 8.8             | 10.6        | 29.41                 | -266.2                            | -393.9     | 156.5                | 142.4                 | 14.13                  | 11.076            |                           |         |
| 3,800.0  | 3,780.8             | 3,793.7             | 3,756.0             | 9.0             | 10.9        | 29.41                 | -275.3                            | -407.4     | 161.9                | 147.3                 | 14.53                  | 11.140            |                           |         |
| 3,900.0  | 3,880.1             | 3,893.6             | 3,854.6             | 9.3             | 11.2        | 29.41                 | -284.4                            | -420.9     | 167.2                | 152.3                 | 14.93                  | 11.201            |                           |         |
| 4,000.0  | 3,979.5             | 3,993.5             | 3,953.1             | 9.6             | 11.6        | 29.41                 | -293.5                            | -434.4     | 172.6                | 157.3                 | 15.33                  | 11.258            |                           |         |
| 4,100.0  | 4,078.8             | 4,093.3             | 4,051.6             | 9.8             | 11.9        | 29.41                 | -302.7                            | -447.9     | 177.9                | 162.2                 | 15.73                  | 11.313            |                           |         |
| 4,200.0  | 4,178.2             | 4,193.2             | 4,150.1             | 10.1            | 12.2        | 29.41                 | -311.8                            | -461.4     | 183.3                | 167.2                 | 16.13                  | 11.364            |                           |         |
| 4,300.0  | 4,277.5             | 4,293.0             | 4,248.6             | 10.4            | 12.6        | 29.40                 | -320.9                            | -474.8     | 188.7                | 172.1                 | 16.53                  | 11.413            |                           |         |
| 4,400.0  | 4,376.8             | 4,392.9             | 4,347.2             | 10.6            | 12.9        | 29.40                 | -330.0                            | -488.3     | 194.0                | 177.1                 | 16.93                  | 11.460            |                           |         |
| 4,500.0  | 4,476.2             | 4,492.7             | 4,445.7             | 10.9            | 13.2        | 29.40                 | -339.1                            | -501.8     | 199.4                | 182.0                 | 17.33                  | 11.505            |                           |         |
| 4,600.0  | 4,575.5             | 4,592.6             | 4,544.2             | 11.2            | 13.6        | 29.40                 | -348.2                            | -515.3     | 204.7                | 187.0                 | 17.73                  | 11.547            |                           |         |
| 4,700.0  | 4,674.9             | 4,692.4             | 4,642.7             | 11.4            | 13.9        | 29.40                 | -357.4                            | -528.8     | 210.1                | 192.0                 | 18.13                  | 11.588            |                           |         |
| 4,800.0  | 4,774.2             | 4,792.3             | 4,741.3             | 11.7            | 14.2        | 29.40                 | -366.5                            | -542.3     | 215.4                | 196.9                 | 18.53                  | 11.626            |                           |         |
| 4,900.0  | 4,873.5             | 4,892.2             | 4,839.8             | 12.0            | 14.6        | 29.40                 | -375.6                            | -555.7     | 220.8                | 201.9                 | 18.93                  | 11.664            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3K-32H-K268 - Hz - Plan #2 |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | 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) |                              |                      |                    |        |
| 5,000.0  | 4,972.9                   | 4,992.0                   | 4,938.3                   | 12.2              | 14.9           | 29.40                       | -384.7                                  | -569.2        | 226.2                      | 206.8                       | 19.33                        | 11.699               |                    |        |
| 5,100.0  | 5,072.2                   | 5,091.9                   | 5,036.8                   | 12.5              | 15.2           | 29.40                       | -393.8                                  | -582.7        | 231.5                      | 211.8                       | 19.73                        | 11.733               |                    |        |
| 5,200.0  | 5,171.6                   | 5,191.7                   | 5,135.3                   | 12.7              | 15.6           | 29.40                       | -402.9                                  | -596.2        | 236.9                      | 216.7                       | 20.13                        | 11.766               |                    |        |
| 5,300.0  | 5,270.9                   | 5,291.6                   | 5,233.9                   | 13.0              | 15.9           | 29.40                       | -412.1                                  | -609.7        | 242.2                      | 221.7                       | 20.53                        | 11.797               |                    |        |
| 5,400.0  | 5,370.3                   | 5,391.4                   | 5,332.4                   | 13.3              | 16.2           | 29.40                       | -421.2                                  | -623.2        | 247.6                      | 226.7                       | 20.93                        | 11.828               |                    |        |
| 5,500.0  | 5,469.6                   | 5,491.3                   | 5,430.9                   | 13.5              | 16.6           | 29.40                       | -430.3                                  | -636.6        | 252.9                      | 231.6                       | 21.33                        | 11.857               |                    |        |
| 5,600.0  | 5,568.9                   | 5,591.2                   | 5,529.4                   | 13.8              | 16.9           | 29.39                       | -439.4                                  | -650.1        | 258.3                      | 236.6                       | 21.73                        | 11.885               |                    |        |
| 5,700.0  | 5,668.3                   | 5,691.0                   | 5,627.9                   | 14.1              | 17.2           | 29.39                       | -448.5                                  | -663.6        | 263.7                      | 241.5                       | 22.13                        | 11.912               |                    |        |
| 5,800.0  | 5,767.6                   | 5,790.9                   | 5,726.5                   | 14.3              | 17.6           | 29.39                       | -457.6                                  | -677.1        | 269.0                      | 246.5                       | 22.53                        | 11.938               |                    |        |
| 5,900.0  | 5,867.0                   | 5,890.7                   | 5,825.0                   | 14.6              | 17.9           | 29.39                       | -466.8                                  | -690.6        | 274.4                      | 251.4                       | 22.94                        | 11.963               |                    |        |
| 6,000.0  | 5,966.3                   | 5,990.6                   | 5,923.5                   | 14.9              | 18.3           | 29.39                       | -475.9                                  | -704.1        | 279.7                      | 256.4                       | 23.34                        | 11.987               |                    |        |
| 6,100.0  | 6,065.6                   | 6,090.4                   | 6,022.0                   | 15.1              | 18.6           | 29.39                       | -485.0                                  | -717.5        | 285.1                      | 261.3                       | 23.74                        | 12.010               |                    |        |
| 6,200.0  | 6,165.0                   | 6,190.3                   | 6,120.5                   | 15.4              | 18.9           | 29.39                       | -494.1                                  | -731.0        | 290.4                      | 266.3                       | 24.14                        | 12.033               |                    |        |
| 6,300.0  | 6,264.3                   | 6,290.1                   | 6,219.1                   | 15.7              | 19.3           | 29.39                       | -503.2                                  | -744.5        | 295.8                      | 271.3                       | 24.54                        | 12.055               |                    |        |
| 6,400.0  | 6,363.7                   | 6,390.0                   | 6,317.6                   | 15.9              | 19.6           | 29.39                       | -512.3                                  | -758.0        | 301.2                      | 276.2                       | 24.94                        | 12.076               |                    |        |
| 6,500.0  | 6,463.0                   | 6,489.9                   | 6,416.1                   | 16.2              | 19.9           | 29.39                       | -521.5                                  | -771.5        | 306.5                      | 281.2                       | 25.34                        | 12.096               |                    |        |
| 6,600.0  | 6,562.3                   | 6,589.7                   | 6,514.6                   | 16.5              | 20.3           | 29.39                       | -530.6                                  | -785.0        | 311.9                      | 286.1                       | 25.74                        | 12.116               |                    |        |
| 6,700.0  | 6,661.7                   | 6,689.6                   | 6,613.2                   | 16.7              | 20.6           | 29.39                       | -539.7                                  | -798.4        | 317.2                      | 291.1                       | 26.14                        | 12.135               |                    |        |
| 6,801.1  | 6,762.1                   | 6,790.5                   | 6,712.8                   | 17.0              | 20.9           | 29.39                       | -548.9                                  | -812.1        | 322.6                      | 296.1                       | 26.55                        | 12.154               |                    |        |
| 6,850.0  | 6,810.8                   | 6,839.3                   | 6,760.8                   | 17.1              | 21.1           | -18.28                      | -553.4                                  | -818.7        | 325.8                      | 299.1                       | 26.70                        | 12.201               |                    |        |
| 6,900.0  | 6,860.5                   | 6,888.7                   | 6,809.6                   | 17.2              | 21.3           | -62.61                      | -557.9                                  | -825.3        | 330.0                      | 303.3                       | 26.71                        | 12.358               |                    |        |
| 6,950.0  | 6,909.9                   | 6,937.3                   | 6,857.6                   | 17.2              | 21.4           | -80.67                      | -562.3                                  | -831.9        | 335.6                      | 309.0                       | 26.59                        | 12.621               |                    |        |
| 7,000.0  | 6,958.4                   | 6,984.7                   | 6,904.4                   | 17.2              | 21.6           | -89.68                      | -566.6                                  | -838.3        | 342.8                      | 316.4                       | 26.39                        | 12.991               |                    |        |
| 7,050.0  | 7,005.8                   | 7,030.7                   | 6,949.7                   | 17.1              | 21.7           | -95.55                      | -570.8                                  | -844.5        | 352.0                      | 325.9                       | 26.14                        | 13.468               |                    |        |
| 7,100.0  | 7,051.7                   | 7,077.2                   | 6,995.6                   | 17.1              | 21.9           | -100.15                     | -575.0                                  | -850.8        | 363.6                      | 337.8                       | 25.85                        | 14.069               |                    |        |
| 7,150.0  | 7,095.8                   | 7,138.8                   | 7,056.6                   | 17.0              | 22.0           | -104.79                     | -576.3                                  | -859.1        | 376.7                      | 351.3                       | 25.42                        | 14.816               |                    |        |
| 7,200.0  | 7,137.6                   | 7,205.1                   | 7,122.0                   | 16.9              | 22.2           | -108.78                     | -570.4                                  | -868.1        | 390.2                      | 365.2                       | 25.03                        | 15.589               |                    |        |
| 7,250.0  | 7,176.9                   | 7,276.8                   | 7,191.4                   | 16.8              | 22.2           | -112.27                     | -555.4                                  | -877.6        | 403.7                      | 379.0                       | 24.66                        | 16.370               |                    |        |
| 7,300.0  | 7,213.4                   | 7,354.5                   | 7,263.9                   | 16.7              | 22.2           | -115.31                     | -529.5                                  | -887.5        | 416.6                      | 392.3                       | 24.32                        | 17.132               |                    |        |
| 7,350.0  | 7,246.8                   | 7,438.5                   | 7,337.6                   | 16.6              | 22.1           | -117.90                     | -490.6                                  | -897.6        | 428.4                      | 404.4                       | 24.01                        | 17.843               |                    |        |
| 7,400.0  | 7,276.9                   | 7,528.8                   | 7,409.6                   | 16.5              | 21.9           | -120.00                     | -437.1                                  | -907.4        | 438.5                      | 414.8                       | 23.76                        | 18.456               |                    |        |
| 7,450.0  | 7,303.4                   | 7,624.9                   | 7,476.0                   | 16.4              | 21.8           | -121.54                     | -368.5                                  | -916.5        | 446.4                      | 422.8                       | 23.60                        | 18.916               |                    |        |
| 7,500.0  | 7,326.1                   | 7,725.3                   | 7,532.4                   | 16.4              | 21.6           | -122.45                     | -285.8                                  | -924.3        | 451.5                      | 427.9                       | 23.56                        | 19.163               |                    |        |
| 7,550.0  | 7,344.8                   | 7,828.1                   | 7,574.3                   | 16.4              | 21.5           | -122.70                     | -192.3                                  | -930.0        | 453.5                      | 429.8                       | 23.68                        | 19.154               |                    |        |
| 7,600.0  | 7,359.5                   | 7,930.7                   | 7,599.1                   | 16.4              | 21.5           | -122.28                     | -92.9                                   | -933.4        | 452.4                      | 428.4                       | 23.97                        | 18.873               |                    |        |
| 7,650.0  | 7,370.0                   | 8,025.6                   | 7,606.0                   | 16.5              | 21.6           | -121.31                     | 1.5                                     | -934.3        | 448.3                      | 423.9                       | 24.38                        | 18.384               |                    |        |
| 7,700.0  | 7,376.1                   | 8,075.2                   | 7,606.0                   | 16.6              | 21.6           | -121.02                     | 51.1                                    | -934.3        | 444.6                      | 420.0                       | 24.58                        | 18.085               |                    |        |
| 7,746.2  | 7,378.0                   | 8,121.4                   | 7,606.0                   | 16.8              | 21.8           | -120.93                     | 97.3                                    | -934.3        | 443.5                      | 418.7                       | 24.79                        | 17.892               |                    |        |
| 7,800.0  | 7,378.0                   | 8,175.1                   | 7,606.0                   | 17.0              | 21.9           | -120.93                     | 151.1                                   | -934.3        | 443.5                      | 418.3                       | 25.28                        | 17.542               |                    |        |
| 7,900.0  | 7,378.0                   | 8,275.1                   | 7,606.0                   | 17.5              | 22.3           | -120.93                     | 251.1                                   | -934.3        | 443.5                      | 417.1                       | 26.44                        | 16.775               |                    |        |
| 8,000.0  | 7,378.0                   | 8,375.1                   | 7,606.0                   | 18.2              | 22.9           | -120.93                     | 351.1                                   | -934.3        | 443.5                      | 415.7                       | 27.88                        | 15.911               |                    |        |
| 8,100.0  | 7,378.0                   | 8,475.1                   | 7,606.0                   | 19.0              | 23.5           | -120.93                     | 451.1                                   | -934.3        | 443.5                      | 414.0                       | 29.55                        | 15.009               |                    |        |
| 8,200.0  | 7,378.0                   | 8,575.1                   | 7,606.0                   | 20.0              | 24.3           | -120.93                     | 551.1                                   | -934.3        | 443.5                      | 412.1                       | 31.43                        | 14.113               |                    |        |
| 8,300.0  | 7,378.0                   | 8,675.1                   | 7,606.0                   | 21.0              | 25.2           | -120.93                     | 651.1                                   | -934.3        | 443.5                      | 410.1                       | 33.47                        | 13.252               |                    |        |
| 8,400.0  | 7,378.0                   | 8,775.1                   | 7,606.0                   | 22.2              | 26.2           | -120.93                     | 751.1                                   | -934.3        | 443.5                      | 407.9                       | 35.65                        | 12.441               |                    |        |
| 8,500.0  | 7,378.0                   | 8,875.1                   | 7,606.0                   | 23.4              | 27.2           | -120.93                     | 851.1                                   | -934.3        | 443.5                      | 405.6                       | 37.95                        | 11.688               |                    |        |
| 8,600.0  | 7,378.0                   | 8,975.1                   | 7,606.0                   | 24.7              | 28.3           | -120.93                     | 951.1                                   | -934.3        | 443.5                      | 403.2                       | 40.34                        | 10.995               |                    |        |
| 8,700.0  | 7,378.0                   | 9,075.1                   | 7,606.0                   | 26.0              | 29.5           | -120.93                     | 1,051.1                                 | -934.3        | 443.5                      | 400.7                       | 42.81                        | 10.361               |                    |        |
| 8,800.0  | 7,378.0                   | 9,175.1                   | 7,606.0                   | 27.4              | 30.7           | -120.93                     | 1,151.1                                 | -934.3        | 443.5                      | 398.2                       | 45.34                        | 9.781                |                    |        |
| 8,900.0  | 7,378.0                   | 9,275.1                   | 7,606.0                   | 28.8              | 32.0           | -120.93                     | 1,251.1                                 | -934.3        | 443.5                      | 395.6                       | 47.94                        | 9.253                |                    |        |
| 9,000.0  | 7,378.0                   | 9,375.1                   | 7,606.0                   | 30.3              | 33.3           | -120.93                     | 1,351.1                                 | -934.3        | 443.5                      | 393.0                       | 50.57                        | 8.770                |                    |        |
| 9,100.0  | 7,378.0                   | 9,475.1                   | 7,606.0                   | 31.7              | 34.7           | -120.93                     | 1,451.1                                 | -934.3        | 443.5                      | 390.3                       | 53.25                        | 8.329                |                    |        |

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



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3K-32H-K268 - Hz - Plan #2 |                        |                        |                        |                   |                |                             |   |               |                            |                             |                     |                      | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|---------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD  |                        |                        |                        |                   |                |                             |   |               |                            |                             |                     |                      | Offset Well Error: | 0.0 ft |
| Reference  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | Total               |                      | 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 | Separation<br>Factor |                    |        |
| 9,200.0  | 7,378.0                | 9,575.1                | 7,606.0                | 33.3              | 36.1           | -120.93                     | 1,551.1                                 | -934.3        | 443.5                      | 387.6                       | 55.97               | 7.925                |                    |        |
| 9,246.2  | 7,378.0                | 9,621.4                | 7,606.0                | 34.0              | 36.7           | -120.93                     | 1,597.3                                 | -934.3        | 443.5                      | 386.3                       | 57.23               | 7.750                |                    |        |
| 9,246.2  | 7,378.0                | 9,621.4                | 7,606.0                | 34.0              | 36.7           | -120.93                     | 1,597.3                                 | -934.3        | 443.5                      | 386.3                       | 57.23               | 7.750                |                    |        |
| 9,300.0  | 7,378.0                | 9,675.1                | 7,606.0                | 34.8              | 37.5           | -120.91                     | 1,651.1                                 | -934.3        | 444.0                      | 385.6                       | 58.34               | 7.609                |                    |        |
| 9,400.0  | 7,378.0                | 9,775.0                | 7,606.0                | 36.3              | 39.0           | -120.70                     | 1,751.0                                 | -934.3        | 447.1                      | 386.6                       | 60.46               | 7.394                |                    |        |
| 9,503.1  | 7,378.0                | 9,877.9                | 7,606.0                | 37.9              | 40.5           | -120.29                     | 1,853.9                                 | -934.3        | 453.4                      | 390.7                       | 62.71               | 7.231                |                    |        |
| 9,600.0  | 7,378.0                | 9,974.4                | 7,606.0                | 39.4              | 41.9           | -119.74                     | 1,950.3                                 | -934.3        | 461.0                      | 395.2                       | 65.73               | 7.013                |                    |        |
| 9,700.0  | 7,378.0                | 10,074.0               | 7,606.0                | 41.0              | 43.4           | -119.20                     | 2,049.9                                 | -934.3        | 468.8                      | 399.9                       | 68.88               | 6.805                |                    |        |
| 9,800.0  | 7,378.0                | 10,173.6               | 7,606.0                | 42.5              | 45.0           | -118.68                     | 2,149.5                                 | -934.3        | 476.6                      | 404.5                       | 72.07               | 6.613                |                    |        |
| 9,900.0  | 7,378.0                | 10,273.2               | 7,606.0                | 44.1              | 46.5           | -118.17                     | 2,249.1                                 | -934.3        | 484.5                      | 409.2                       | 75.28               | 6.436                |                    |        |
| 10,000.0   | 7,378.0                | 10,372.8               | 7,606.0                | 45.7              | 48.1           | -117.68                     | 2,348.7                                 | -934.3        | 492.4                      | 413.9                       | 78.53               | 6.271                |                    |        |
| 10,100.0   | 7,378.0                | 10,472.4               | 7,606.0                | 47.4              | 49.6           | -117.20                     | 2,448.3                                 | -934.3        | 500.4                      | 418.6                       | 81.79               | 6.118                |                    |        |
| 10,200.0   | 7,378.0                | 10,572.0               | 7,606.0                | 49.0              | 51.2           | -116.74                     | 2,547.9                                 | -934.3        | 508.4                      | 423.3                       | 85.08               | 5.975                |                    |        |
| 10,300.0   | 7,378.0                | 10,671.6               | 7,606.0                | 50.6              | 52.8           | -116.29                     | 2,647.5                                 | -934.3        | 516.4                      | 428.0                       | 88.38               | 5.842                |                    |        |
| 10,400.0   | 7,378.0                | 10,771.2               | 7,606.0                | 52.3              | 54.4           | -115.86                     | 2,747.1                                 | -934.3        | 524.4                      | 432.7                       | 91.71               | 5.718                |                    |        |
| 10,500.0   | 7,378.0                | 10,870.8               | 7,606.0                | 53.9              | 56.0           | -115.44                     | 2,846.7                                 | -934.3        | 532.5                      | 437.5                       | 95.05               | 5.602                |                    |        |
| 10,600.0   | 7,378.0                | 10,970.4               | 7,606.0                | 55.6              | 57.6           | -115.03                     | 2,946.3                                 | -934.3        | 540.6                      | 442.2                       | 98.41               | 5.494                |                    |        |
| 10,700.0   | 7,378.0                | 11,070.0               | 7,606.0                | 57.2              | 59.3           | -114.64                     | 3,045.9                                 | -934.3        | 548.7                      | 447.0                       | 101.78              | 5.392                |                    |        |
| 10,761.7   | 7,378.0                | 11,131.4               | 7,606.0                | 58.3              | 60.3           | -114.40                     | 3,107.3                                 | -934.3        | 553.8                      | 449.9                       | 103.86              | 5.332                |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3M-32H-K268 - Hz - Plan #3 |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD  |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference  |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | Total<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            | 104.60                      | -3.6                                    | 14.0          | 14.5                       |                             |                              |                      |                    |        |
| 100.0  | 100.0                     | 100.0                     | 100.0                     | 0.2               | 0.2            | 104.60                      | -3.6                                    | 14.0          | 14.5                       | 14.2                        | 0.30                         | 47.599               |                    |        |
| 200.0  | 200.0                     | 200.0                     | 200.0                     | 0.3               | 0.3            | 104.73                      | -3.7                                    | 14.0          | 14.5                       | 13.8                        | 0.65                         | 22.142               |                    |        |
| 274.9  | 274.9                     | 274.9                     | 274.9                     | 0.5               | 0.5            | 107.71                      | -4.4                                    | 13.7          | 14.4                       | 13.5                        | 0.91                         | 15.782 CC            |                    |        |
| 300.0  | 300.0                     | 300.0                     | 300.0                     | 0.5               | 0.5            | 109.58                      | -4.8                                    | 13.6          | 14.4                       | 13.4                        | 1.00                         | 14.405 ES            |                    |        |
| 400.0  | 400.0                     | 399.9                     | 399.9                     | 0.7               | 0.7            | 121.10                      | -7.7                                    | 12.7          | 14.8                       | 13.5                        | 1.36                         | 10.939               |                    |        |
| 450.0  | 450.0                     | 449.8                     | 449.7                     | 0.8               | 0.8            | 128.80                      | -9.7                                    | 12.1          | 15.5                       | 13.9                        | 1.54                         | 10.059               |                    |        |
| 500.0  | 500.0                     | 499.7                     | 499.6                     | 0.9               | 0.9            | -90.29                      | -12.1                                   | 11.3          | 16.6                       | 14.9                        | 1.72                         | 9.648                |                    |        |
| 600.0  | 600.0                     | 599.4                     | 599.0                     | 1.0               | 1.1            | -79.04                      | -18.3                                   | 9.3           | 20.1                       | 18.0                        | 2.08                         | 9.645                |                    |        |
| 700.0  | 699.9                     | 699.0                     | 698.3                     | 1.2               | 1.3            | -72.40                      | -26.0                                   | 6.8           | 24.8                       | 22.4                        | 2.45                         | 10.134               |                    |        |
| 800.0  | 799.8                     | 798.9                     | 797.7                     | 1.4               | 1.5            | -69.93                      | -34.7                                   | 4.1           | 29.9                       | 27.0                        | 2.83                         | 10.560               |                    |        |
| 900.0  | 899.5                     | 898.8                     | 897.2                     | 1.6               | 1.7            | -70.88                      | -43.3                                   | 1.3           | 34.3                       | 31.1                        | 3.22                         | 10.643               |                    |        |
| 1,000.0  | 999.2                     | 998.7                     | 996.7                     | 1.8               | 2.0            | -74.09                      | -51.9                                   | -1.4          | 38.3                       | 34.6                        | 3.65                         | 10.487               |                    |        |
| 1,108.4  | 1,106.9                   | 1,106.9                   | 1,104.5                   | 2.1               | 2.2            | -79.47                      | -61.3                                   | -4.4          | 42.3                       | 38.1                        | 4.15                         | 10.182               |                    |        |
| 1,200.0  | 1,197.9                   | 1,198.4                   | 1,195.6                   | 2.3               | 2.4            | -84.37                      | -69.2                                   | -6.9          | 45.8                       | 41.2                        | 4.60                         | 9.971                |                    |        |
| 1,300.0  | 1,297.3                   | 1,298.2                   | 1,295.0                   | 2.5               | 2.7            | -88.89                      | -77.8                                   | -9.7          | 50.0                       | 44.9                        | 5.08                         | 9.834                |                    |        |
| 1,400.0  | 1,396.6                   | 1,398.1                   | 1,394.5                   | 2.8               | 2.9            | -92.69                      | -86.5                                   | -12.5         | 54.5                       | 48.9                        | 5.58                         | 9.765                |                    |        |
| 1,500.0  | 1,496.0                   | 1,497.9                   | 1,493.9                   | 3.0               | 3.1            | -95.91                      | -95.1                                   | -15.2         | 59.1                       | 53.0                        | 6.07                         | 9.740                |                    |        |
| 1,600.0  | 1,595.3                   | 1,597.7                   | 1,593.3                   | 3.3               | 3.4            | -98.65                      | -103.7                                  | -18.0         | 63.9                       | 57.4                        | 6.56                         | 9.746                |                    |        |
| 1,700.0  | 1,694.7                   | 1,697.6                   | 1,692.7                   | 3.5               | 3.6            | -101.00                     | -112.4                                  | -20.7         | 68.8                       | 61.8                        | 7.05                         | 9.770                |                    |        |
| 1,800.0  | 1,794.0                   | 1,797.4                   | 1,792.2                   | 3.8               | 3.8            | -103.04                     | -121.0                                  | -23.5         | 73.9                       | 66.3                        | 7.53                         | 9.807                |                    |        |
| 1,900.0  | 1,893.3                   | 1,897.3                   | 1,891.6                   | 4.0               | 4.1            | -104.81                     | -129.6                                  | -26.2         | 79.0                       | 71.0                        | 8.02                         | 9.852                |                    |        |
| 2,000.0  | 1,992.7                   | 1,997.1                   | 1,991.0                   | 4.3               | 4.3            | -106.37                     | -138.3                                  | -29.0         | 84.2                       | 75.7                        | 8.50                         | 9.902                |                    |        |
| 2,100.0  | 2,092.0                   | 2,096.9                   | 2,090.5                   | 4.6               | 4.5            | -107.74                     | -146.9                                  | -31.8         | 89.4                       | 80.4                        | 8.98                         | 9.954                |                    |        |
| 2,200.0  | 2,191.4                   | 2,196.8                   | 2,189.9                   | 4.8               | 4.8            | -108.97                     | -155.5                                  | -34.5         | 94.7                       | 85.2                        | 9.46                         | 10.006               |                    |        |
| 2,300.0  | 2,290.7                   | 2,296.6                   | 2,289.3                   | 5.1               | 5.0            | -110.06                     | -164.2                                  | -37.3         | 100.0                      | 90.1                        | 9.94                         | 10.059               |                    |        |
| 2,400.0  | 2,390.0                   | 2,396.5                   | 2,388.7                   | 5.3               | 5.2            | -111.04                     | -172.8                                  | -40.0         | 105.4                      | 94.9                        | 10.42                        | 10.111               |                    |        |
| 2,500.0  | 2,489.4                   | 2,496.3                   | 2,488.2                   | 5.6               | 5.5            | -111.93                     | -181.4                                  | -42.8         | 110.8                      | 99.9                        | 10.90                        | 10.162               |                    |        |
| 2,600.0  | 2,588.7                   | 2,596.1                   | 2,587.6                   | 5.9               | 5.7            | -112.73                     | -190.1                                  | -45.5         | 116.2                      | 104.8                       | 11.37                        | 10.212               |                    |        |
| 2,700.0  | 2,688.1                   | 2,696.0                   | 2,687.0                   | 6.1               | 5.9            | -113.47                     | -198.7                                  | -48.3         | 121.6                      | 109.7                       | 11.85                        | 10.260               |                    |        |
| 2,800.0  | 2,787.4                   | 2,795.8                   | 2,786.5                   | 6.4               | 6.2            | -114.14                     | -207.3                                  | -51.1         | 127.0                      | 114.7                       | 12.33                        | 10.306               |                    |        |
| 2,900.0  | 2,886.7                   | 2,895.7                   | 2,885.9                   | 6.7               | 6.4            | -114.75                     | -216.0                                  | -53.8         | 132.5                      | 119.7                       | 12.80                        | 10.350               |                    |        |
| 3,000.0  | 2,986.1                   | 2,995.5                   | 2,985.3                   | 6.9               | 6.6            | -115.32                     | -224.6                                  | -56.6         | 138.0                      | 124.7                       | 13.27                        | 10.393               |                    |        |
| 3,100.0  | 3,085.4                   | 3,095.4                   | 3,084.7                   | 7.2               | 6.9            | -115.84                     | -233.2                                  | -59.3         | 143.4                      | 129.7                       | 13.75                        | 10.434               |                    |        |
| 3,200.0  | 3,184.8                   | 3,195.2                   | 3,184.2                   | 7.5               | 7.1            | -116.33                     | -241.8                                  | -62.1         | 148.9                      | 134.7                       | 14.22                        | 10.473               |                    |        |
| 3,300.0  | 3,284.1                   | 3,295.0                   | 3,283.6                   | 7.7               | 7.3            | -116.78                     | -250.5                                  | -64.8         | 154.5                      | 139.8                       | 14.69                        | 10.511               |                    |        |
| 3,400.0  | 3,383.4                   | 3,394.9                   | 3,383.0                   | 8.0               | 7.6            | -117.20                     | -259.1                                  | -67.6         | 160.0                      | 144.8                       | 15.17                        | 10.547               |                    |        |
| 3,500.0  | 3,482.8                   | 3,494.7                   | 3,482.5                   | 8.2               | 7.8            | -117.59                     | -267.7                                  | -70.3         | 165.5                      | 149.9                       | 15.64                        | 10.582               |                    |        |
| 3,600.0  | 3,582.1                   | 3,594.6                   | 3,581.9                   | 8.5               | 8.1            | -117.95                     | -276.4                                  | -73.1         | 171.0                      | 154.9                       | 16.11                        | 10.616               |                    |        |
| 3,700.0  | 3,681.5                   | 3,694.4                   | 3,681.3                   | 8.8               | 8.3            | -118.30                     | -285.0                                  | -75.9         | 176.6                      | 160.0                       | 16.58                        | 10.648               |                    |        |
| 3,800.0  | 3,780.8                   | 3,794.2                   | 3,780.8                   | 9.0               | 8.5            | -118.62                     | -293.6                                  | -78.6         | 182.1                      | 165.1                       | 17.05                        | 10.678               |                    |        |
| 3,900.0  | 3,880.1                   | 3,894.1                   | 3,880.2                   | 9.3               | 8.8            | -118.92                     | -302.3                                  | -81.4         | 187.7                      | 170.1                       | 17.53                        | 10.708               |                    |        |
| 4,000.0  | 3,979.5                   | 3,993.9                   | 3,979.6                   | 9.6               | 9.0            | -119.21                     | -310.9                                  | -84.1         | 193.2                      | 175.2                       | 18.00                        | 10.736               |                    |        |
| 4,100.0  | 4,078.8                   | 4,093.8                   | 4,079.0                   | 9.8               | 9.2            | -119.48                     | -319.5                                  | -86.9         | 198.8                      | 180.3                       | 18.47                        | 10.763               |                    |        |
| 4,200.0  | 4,178.2                   | 4,193.6                   | 4,178.5                   | 10.1              | 9.5            | -119.73                     | -328.2                                  | -89.6         | 204.3                      | 185.4                       | 18.94                        | 10.790               |                    |        |
| 4,300.0  | 4,277.5                   | 4,293.4                   | 4,277.9                   | 10.4              | 9.7            | -119.97                     | -336.8                                  | -92.4         | 209.9                      | 190.5                       | 19.41                        | 10.815               |                    |        |
| 4,400.0  | 4,376.8                   | 4,393.3                   | 4,377.3                   | 10.6              | 9.9            | -120.20                     | -345.4                                  | -95.2         | 215.5                      | 195.6                       | 19.88                        | 10.839               |                    |        |
| 4,500.0  | 4,476.2                   | 4,493.1                   | 4,476.8                   | 10.9              | 10.2           | -120.42                     | -354.1                                  | -97.9         | 221.0                      | 200.7                       | 20.35                        | 10.862               |                    |        |
| 4,600.0  | 4,575.5                   | 4,593.0                   | 4,576.2                   | 11.2              | 10.4           | -120.63                     | -362.7                                  | -100.7        | 226.6                      | 205.8                       | 20.82                        | 10.885               |                    |        |
| 4,700.0  | 4,674.9                   | 4,692.8                   | 4,675.6                   | 11.4              | 10.6           | -120.82                     | -371.3                                  | -103.4        | 232.2                      | 210.9                       | 21.29                        | 10.907               |                    |        |
| 4,800.0  | 4,774.2                   | 4,792.6                   | 4,775.0                   | 11.7              | 10.9           | -121.01                     | -380.0                                  | -106.2        | 237.8                      | 216.0                       | 21.76                        | 10.928               |                    |        |
| 4,900.0  | 4,873.5                   | 4,892.5                   | 4,874.5                   | 12.0              | 11.1           | -121.19                     | -388.6                                  | -108.9        | 243.4                      | 221.1                       | 22.23                        | 10.948               |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3M-32H-K268 - Hz - Plan #3 |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD  |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference  |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | Total<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) |                              |                      |                    |        |
| 5,000.0  | 4,972.9                   | 4,992.3                   | 4,973.9                   | 12.2              | 11.3           | -121.36                     | -397.2                                  | -111.7        | 249.0                      | 226.3                       | 22.70                        | 10.967               |                    |        |
| 5,100.0  | 5,072.2                   | 5,092.2                   | 5,073.3                   | 12.5              | 11.6           | -121.52                     | -405.9                                  | -114.5        | 254.5                      | 231.4                       | 23.17                        | 10.986               |                    |        |
| 5,200.0  | 5,171.6                   | 5,192.0                   | 5,172.8                   | 12.7              | 11.8           | -121.68                     | -414.5                                  | -117.2        | 260.1                      | 236.5                       | 23.64                        | 11.004               |                    |        |
| 5,300.0  | 5,270.9                   | 5,291.9                   | 5,272.2                   | 13.0              | 12.0           | -121.83                     | -423.1                                  | -120.0        | 265.7                      | 241.6                       | 24.11                        | 11.022               |                    |        |
| 5,400.0  | 5,370.3                   | 5,391.7                   | 5,371.6                   | 13.3              | 12.3           | -121.97                     | -431.8                                  | -122.7        | 271.3                      | 246.7                       | 24.58                        | 11.039               |                    |        |
| 5,500.0  | 5,469.6                   | 5,491.5                   | 5,471.0                   | 13.5              | 12.5           | -122.11                     | -440.4                                  | -125.5        | 276.9                      | 251.9                       | 25.05                        | 11.056               |                    |        |
| 5,600.0  | 5,568.9                   | 5,591.4                   | 5,570.5                   | 13.8              | 12.8           | -122.24                     | -449.0                                  | -128.2        | 282.5                      | 257.0                       | 25.52                        | 11.072               |                    |        |
| 5,700.0  | 5,668.3                   | 5,691.2                   | 5,669.9                   | 14.1              | 13.0           | -122.37                     | -457.7                                  | -131.0        | 288.1                      | 262.1                       | 25.99                        | 11.087               |                    |        |
| 5,800.0  | 5,767.6                   | 5,791.1                   | 5,769.3                   | 14.3              | 13.2           | -122.49                     | -466.3                                  | -133.8        | 293.7                      | 267.3                       | 26.46                        | 11.102               |                    |        |
| 5,900.0  | 5,867.0                   | 5,890.9                   | 5,868.8                   | 14.6              | 13.5           | -122.61                     | -474.9                                  | -136.5        | 299.3                      | 272.4                       | 26.93                        | 11.117               |                    |        |
| 6,000.0  | 5,966.3                   | 5,990.7                   | 5,968.2                   | 14.9              | 13.7           | -122.73                     | -483.6                                  | -139.3        | 304.9                      | 277.5                       | 27.39                        | 11.131               |                    |        |
| 6,100.0  | 6,065.6                   | 6,090.6                   | 6,067.6                   | 15.1              | 13.9           | -122.83                     | -492.2                                  | -142.0        | 310.5                      | 282.7                       | 27.86                        | 11.145               |                    |        |
| 6,200.0  | 6,165.0                   | 6,190.4                   | 6,167.0                   | 15.4              | 14.2           | -122.94                     | -500.8                                  | -144.8        | 316.1                      | 287.8                       | 28.33                        | 11.158               |                    |        |
| 6,300.0  | 6,264.3                   | 6,290.3                   | 6,266.5                   | 15.7              | 14.4           | -123.04                     | -509.5                                  | -147.5        | 321.7                      | 292.9                       | 28.80                        | 11.171               |                    |        |
| 6,400.0  | 6,363.7                   | 6,390.1                   | 6,365.9                   | 15.9              | 14.6           | -123.14                     | -518.1                                  | -150.3        | 327.3                      | 298.1                       | 29.27                        | 11.183               |                    |        |
| 6,500.0  | 6,463.0                   | 6,489.9                   | 6,465.3                   | 16.2              | 14.9           | -123.24                     | -526.7                                  | -153.0        | 333.0                      | 303.2                       | 29.74                        | 11.196               |                    |        |
| 6,600.0  | 6,562.3                   | 6,589.8                   | 6,564.8                   | 16.5              | 15.1           | -123.33                     | -535.4                                  | -155.8        | 338.6                      | 308.4                       | 30.21                        | 11.207               |                    |        |
| 6,700.0  | 6,661.7                   | 6,689.6                   | 6,664.2                   | 16.7              | 15.3           | -123.42                     | -544.0                                  | -158.6        | 344.2                      | 313.5                       | 30.68                        | 11.219               |                    |        |
| 6,801.1  | 6,762.1                   | 6,790.6                   | 6,764.7                   | 17.0              | 15.6           | -123.50                     | -552.7                                  | -161.3        | 349.8                      | 318.7                       | 31.15                        | 11.230               |                    |        |
| 6,850.0  | 6,810.8                   | 6,839.3                   | 6,813.3                   | 17.1              | 15.7           | -171.15                     | -556.9                                  | -162.7        | 353.1                      | 321.8                       | 31.31                        | 11.276               |                    |        |
| 6,900.0  | 6,860.5                   | 6,888.8                   | 6,862.5                   | 17.2              | 15.8           | 145.71                      | -561.2                                  | -164.1        | 357.4                      | 326.0                       | 31.46                        | 11.363               |                    |        |
| 6,950.0  | 6,909.9                   | 6,937.4                   | 6,911.0                   | 17.2              | 15.9           | 129.86                      | -565.4                                  | -165.4        | 363.0                      | 331.4                       | 31.56                        | 11.501               |                    |        |
| 7,000.0  | 6,958.4                   | 6,984.9                   | 6,958.3                   | 17.2              | 16.0           | 123.85                      | -569.5                                  | -166.7        | 370.1                      | 338.5                       | 31.61                        | 11.709               |                    |        |
| 7,050.0  | 7,005.8                   | 7,037.7                   | 7,010.9                   | 17.1              | 16.1           | 121.82                      | -573.5                                  | -168.2        | 378.8                      | 347.3                       | 31.58                        | 11.997               |                    |        |
| 7,100.0  | 7,051.7                   | 7,101.2                   | 7,074.3                   | 17.1              | 16.2           | 121.71                      | -572.5                                  | -170.2        | 388.1                      | 356.7                       | 31.40                        | 12.360               |                    |        |
| 7,150.0  | 7,095.8                   | 7,168.4                   | 7,140.9                   | 17.0              | 16.2           | 122.25                      | -563.9                                  | -172.5        | 397.2                      | 366.2                       | 31.02                        | 12.808               |                    |        |
| 7,200.0  | 7,137.6                   | 7,239.4                   | 7,209.5                   | 16.9              | 16.1           | 123.08                      | -546.3                                  | -175.3        | 406.0                      | 375.5                       | 30.45                        | 13.332               |                    |        |
| 7,250.0  | 7,176.9                   | 7,314.2                   | 7,279.0                   | 16.8              | 15.9           | 123.99                      | -518.8                                  | -178.3        | 413.9                      | 384.2                       | 29.72                        | 13.928               |                    |        |
| 7,300.0  | 7,213.4                   | 7,392.8                   | 7,347.4                   | 16.7              | 15.6           | 124.85                      | -480.5                                  | -181.8        | 420.8                      | 391.9                       | 28.86                        | 14.580               |                    |        |
| 7,350.0  | 7,246.8                   | 7,474.7                   | 7,412.4                   | 16.6              | 15.3           | 125.56                      | -430.9                                  | -185.5        | 426.2                      | 398.3                       | 27.93                        | 15.261               |                    |        |
| 7,400.0  | 7,276.9                   | 7,559.3                   | 7,471.5                   | 16.5              | 15.0           | 126.02                      | -370.5                                  | -189.4        | 429.9                      | 402.9                       | 26.99                        | 15.928               |                    |        |
| 7,450.0  | 7,303.4                   | 7,645.7                   | 7,521.9                   | 16.4              | 14.6           | 126.19                      | -300.6                                  | -193.4        | 431.7                      | 405.5                       | 26.13                        | 16.518               |                    |        |
| 7,500.0  | 7,326.1                   | 7,732.6                   | 7,561.4                   | 16.4              | 14.4           | 126.03                      | -223.3                                  | -197.4        | 431.4                      | 406.0                       | 25.45                        | 16.954               |                    |        |
| 7,550.0  | 7,344.8                   | 7,819.1                   | 7,588.7                   | 16.4              | 14.3           | 125.53                      | -141.5                                  | -201.1        | 429.1                      | 404.1                       | 25.01                        | 17.159               |                    |        |
| 7,600.0  | 7,359.5                   | 7,903.7                   | 7,603.2                   | 16.4              | 14.3           | 124.68                      | -58.2                                   | -204.4        | 424.9                      | 400.1                       | 24.87                        | 17.084               |                    |        |
| 7,650.0  | 7,370.0                   | 7,975.7                   | 7,606.0                   | 16.5              | 14.4           | 123.76                      | 13.6                                    | -207.0        | 419.2                      | 394.2                       | 25.02                        | 16.753               |                    |        |
| 7,700.0  | 7,376.1                   | 8,025.3                   | 7,606.0                   | 16.6              | 14.6           | 123.49                      | 63.2                                    | -208.7        | 414.7                      | 389.5                       | 25.27                        | 16.413               |                    |        |
| 7,746.2  | 7,378.0                   | 8,071.5                   | 7,606.0                   | 16.8              | 14.8           | 123.57                      | 109.3                                   | -210.3        | 412.5                      | 386.9                       | 25.62                        | 16.102               |                    |        |
| 7,800.0  | 7,378.0                   | 8,125.2                   | 7,606.0                   | 17.0              | 15.1           | 123.72                      | 163.0                                   | -212.2        | 410.9                      | 384.9                       | 26.07                        | 15.763               |                    |        |
| 7,900.0  | 7,378.0                   | 8,225.1                   | 7,606.0                   | 17.5              | 15.7           | 123.99                      | 262.9                                   | -215.7        | 408.0                      | 380.9                       | 27.13                        | 15.040               |                    |        |
| 8,000.0  | 7,378.0                   | 8,325.1                   | 7,606.0                   | 18.2              | 16.5           | 124.26                      | 362.8                                   | -219.2        | 405.1                      | 376.7                       | 28.44                        | 14.246               |                    |        |
| 8,100.0  | 7,378.0                   | 8,425.0                   | 7,606.0                   | 19.0              | 17.5           | 124.54                      | 462.6                                   | -222.7        | 402.3                      | 372.3                       | 29.96                        | 13.426               |                    |        |
| 8,200.0  | 7,378.0                   | 8,525.0                   | 7,606.0                   | 20.0              | 18.6           | 124.83                      | 562.5                                   | -226.2        | 399.4                      | 367.7                       | 31.66                        | 12.617               |                    |        |
| 8,300.0  | 7,378.0                   | 8,624.9                   | 7,606.0                   | 21.0              | 19.7           | 125.12                      | 662.4                                   | -229.7        | 396.5                      | 363.0                       | 33.49                        | 11.839               |                    |        |
| 8,400.0  | 7,378.0                   | 8,724.8                   | 7,606.0                   | 22.2              | 21.0           | 125.41                      | 762.3                                   | -233.1        | 393.7                      | 358.2                       | 35.45                        | 11.106               |                    |        |
| 8,500.0  | 7,378.0                   | 8,824.8                   | 7,606.0                   | 23.4              | 22.3           | 125.70                      | 862.1                                   | -236.6        | 390.8                      | 353.3                       | 37.49                        | 10.425               |                    |        |
| 8,600.0  | 7,378.0                   | 8,924.7                   | 7,606.0                   | 24.7              | 23.7           | 126.00                      | 962.0                                   | -240.1        | 388.0                      | 348.4                       | 39.61                        | 9.796                |                    |        |
| 8,700.0  | 7,378.0                   | 9,024.7                   | 7,606.0                   | 26.0              | 25.1           | 126.31                      | 1,061.9                                 | -243.6        | 385.2                      | 343.4                       | 41.78                        | 9.219                |                    |        |
| 8,800.0  | 7,378.0                   | 9,124.6                   | 7,606.0                   | 27.4              | 26.5           | 126.62                      | 1,161.8                                 | -247.1        | 382.4                      | 338.4                       | 44.00                        | 8.691                |                    |        |
| 8,900.0  | 7,378.0                   | 9,224.5                   | 7,606.0                   | 28.8              | 28.0           | 126.93                      | 1,261.7                                 | -250.6        | 379.6                      | 333.3                       | 46.25                        | 8.208                |                    |        |
| 9,000.0  | 7,378.0                   | 9,324.5                   | 7,606.0                   | 30.3              | 29.6           | 127.25                      | 1,361.5                                 | -254.1        | 376.8                      | 328.3                       | 48.52                        | 7.766                |                    |        |
| 9,100.0  | 7,378.0                   | 9,424.4                   | 7,606.0                   | 31.7              | 31.1           | 127.58                      | 1,461.4                                 | -257.6        | 374.0                      | 323.2                       | 50.80                        | 7.362                |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| <b>Offset Design</b> S32-T2N-R68W (File/Hwy 52) - File 3M-32H-K268 - Hz - Plan #3 |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              | <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<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      | Warning |
| 9,200.0   | 7,378.0                | 9,524.3                | 7,606.0                | 33.3              | 32.7           | 127.90                      | 1,561.3                                 | -261.0        | 371.3                      | 318.2                       | 53.10                        | 6.992                     |         |
| 9,246.2   | 7,378.0                | 9,570.6                | 7,606.0                | 34.0              | 33.4           | 128.06                      | 1,607.5                                 | -262.7        | 370.0                      | 315.8                       | 54.16                        | 6.832                     |         |
| 9,300.0   | 7,378.0                | 9,624.3                | 7,606.0                | 34.8              | 34.3           | 128.31                      | 1,661.2                                 | -264.5        | 368.1                      | 312.9                       | 55.18                        | 6.671                     |         |
| 9,400.0   | 7,378.0                | 9,724.0                | 7,606.0                | 36.3              | 35.9           | 129.07                      | 1,760.8                                 | -268.0        | 362.6                      | 305.7                       | 56.84                        | 6.379                     |         |
| 9,503.1   | 7,378.0                | 9,826.5                | 7,606.0                | 37.9              | 37.5           | 130.30                      | 1,863.3                                 | -271.6        | 354.1                      | 295.9                       | 58.16                        | 6.088                     |         |
| 9,600.0   | 7,378.0                | 9,922.7                | 7,606.0                | 39.4              | 39.1           | 131.59                      | 1,959.4                                 | -274.9        | 345.0                      | 285.4                       | 59.60                        | 5.788                     |         |
| 9,700.0   | 7,378.0                | 10,021.9               | 7,606.0                | 41.0              | 40.7           | 132.99                      | 2,058.5                                 | -278.4        | 335.8                      | 274.8                       | 60.93                        | 5.510                     |         |
| 9,800.0   | 7,378.0                | 10,121.1               | 7,606.0                | 42.5              | 42.3           | 134.47                      | 2,157.7                                 | -281.9        | 326.8                      | 264.7                       | 62.08                        | 5.264                     |         |
| 9,900.0   | 7,378.0                | 10,220.3               | 7,606.0                | 44.1              | 44.0           | 136.03                      | 2,256.9                                 | -285.3        | 318.0                      | 255.0                       | 63.01                        | 5.046                     |         |
| 10,000.0  | 7,378.0                | 10,319.6               | 7,606.0                | 45.7              | 45.6           | 137.68                      | 2,356.0                                 | -288.8        | 309.4                      | 245.7                       | 63.72                        | 4.856                     |         |
| 10,100.0  | 7,378.0                | 10,418.8               | 7,606.0                | 47.4              | 47.3           | 139.42                      | 2,455.2                                 | -292.3        | 301.2                      | 237.0                       | 64.16                        | 4.694                     |         |
| 10,200.0  | 7,378.0                | 10,514.3               | 7,606.0                | 49.0              | 48.9           | 141.12                      | 2,550.6                                 | -295.1        | 293.5                      | 229.1                       | 64.44                        | 4.555                     |         |
| 10,300.0  | 7,378.0                | 10,606.5               | 7,606.0                | 50.6              | 50.4           | 142.31                      | 2,642.9                                 | -294.6        | 288.3                      | 223.2                       | 65.09                        | 4.429                     |         |
| 10,400.0  | 7,378.0                | 10,700.0               | 7,606.0                | 52.3              | 52.0           | 142.95                      | 2,736.2                                 | -290.2        | 285.7                      | 219.4                       | 66.32                        | 4.308                     |         |
| 10,454.7  | 7,378.0                | 10,750.2               | 7,606.0                | 53.2              | 52.8           | 143.04                      | 2,786.2                                 | -286.3        | 285.3                      | 218.1                       | 67.27                        | 4.242                     |         |
| 10,500.0  | 7,378.0                | 10,792.3               | 7,606.0                | 53.9              | 53.5           | 142.97                      | 2,828.1                                 | -282.1        | 285.6                      | 217.4                       | 68.23                        | 4.186                     |         |
| 10,600.0  | 7,378.0                | 10,885.1               | 7,606.0                | 55.6              | 55.1           | 142.40                      | 2,920.2                                 | -270.2        | 288.0                      | 217.0                       | 70.94                        | 4.060                     |         |
| 10,700.0  | 7,378.0                | 10,977.4               | 7,606.0                | 57.2              | 56.6           | 141.25                      | 3,011.2                                 | -254.6        | 292.9                      | 218.5                       | 74.44                        | 3.935                     |         |
| 10,761.7  | 7,378.0                | 11,034.0               | 7,606.0                | 58.3              | 57.5           | 140.29                      | 3,066.6                                 | -243.2        | 297.3                      | 220.4                       | 76.98                        | 3.863 SF                  |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3N-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |           | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-----------|--------------------|--------|
| Survey Program: O-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |           | Offset Well Error: | 0.0 ft |
| Reference  |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   | Total      |                      | Separation            |                  | Warning   |                    |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor    |                    |        |
| 0.0  | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | 90.00                 | 0.0                               | 19.6       | 19.6                 |                       |                  |           |                    |        |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | 90.00                 | 0.0                               | 19.6       | 19.6                 | 19.3                  | 0.30             | 64.488    |                    |        |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | 90.00                 | 0.0                               | 19.6       | 19.6                 | 18.9                  | 0.65             | 30.002    |                    |        |
| 300.0  | 300.0               | 300.0               | 300.0               | 0.5             | 0.5         | 90.00                 | 0.0                               | 19.6       | 19.6                 | 18.6                  | 1.00             | 19.549 CC |                    |        |
| 400.0  | 400.0               | 399.9               | 399.9               | 0.7             | 0.7         | 92.50                 | -0.9                              | 19.7       | 19.7                 | 18.4                  | 1.35             | 14.604 ES |                    |        |
| 450.0  | 450.0               | 449.9               | 449.9               | 0.8             | 0.8         | 95.57                 | -1.9                              | 19.9       | 20.0                 | 18.4                  | 1.53             | 13.078    |                    |        |
| 500.0  | 500.0               | 499.8               | 499.8               | 0.9             | 0.9         | -127.42               | -3.4                              | 20.1       | 20.5                 | 18.8                  | 1.70             | 12.048    |                    |        |
| 600.0  | 600.0               | 599.6               | 599.5               | 1.0             | 1.0         | -120.54               | -7.7                              | 20.8       | 23.1                 | 21.0                  | 2.06             | 11.196    |                    |        |
| 700.0  | 699.9               | 699.3               | 699.0               | 1.2             | 1.2         | -115.23               | -13.8                             | 21.7       | 27.5                 | 25.1                  | 2.43             | 11.327    |                    |        |
| 800.0  | 799.8               | 798.8               | 798.2               | 1.4             | 1.4         | -111.70               | -21.5                             | 22.8       | 33.7                 | 30.9                  | 2.81             | 11.994    |                    |        |
| 900.0  | 899.5               | 898.4               | 897.3               | 1.6             | 1.7         | -109.99               | -30.5                             | 24.2       | 41.4                 | 38.2                  | 3.21             | 12.897    |                    |        |
| 1,000.0  | 999.2               | 998.0               | 996.5               | 1.8             | 1.9         | -110.59               | -39.7                             | 25.6       | 49.8                 | 46.1                  | 3.63             | 13.716    |                    |        |
| 1,108.4  | 1,106.9             | 1,105.9             | 1,104.0             | 2.1             | 2.1         | -112.80               | -49.6                             | 27.1       | 59.5                 | 55.4                  | 4.10             | 14.516    |                    |        |
| 1,200.0  | 1,197.9             | 1,197.1             | 1,194.8             | 2.3             | 2.3         | -114.89               | -58.0                             | 28.4       | 68.2                 | 63.7                  | 4.51             | 15.125    |                    |        |
| 1,300.0  | 1,297.3             | 1,296.6             | 1,293.9             | 2.5             | 2.6         | -116.63               | -67.1                             | 29.7       | 77.8                 | 72.8                  | 4.96             | 15.677    |                    |        |
| 1,400.0  | 1,396.6             | 1,396.2             | 1,392.9             | 2.8             | 2.8         | -118.00               | -76.2                             | 31.1       | 87.4                 | 82.0                  | 5.42             | 16.139    |                    |        |
| 1,500.0  | 1,496.0             | 1,495.7             | 1,492.0             | 3.0             | 3.0         | -119.09               | -85.4                             | 32.5       | 97.0                 | 91.2                  | 5.87             | 16.530    |                    |        |
| 1,600.0  | 1,595.3             | 1,595.2             | 1,591.1             | 3.3             | 3.3         | -119.98               | -94.5                             | 33.9       | 106.7                | 100.4                 | 6.33             | 16.864    |                    |        |
| 1,700.0  | 1,694.7             | 1,694.7             | 1,690.2             | 3.5             | 3.5         | -120.73               | -103.7                            | 35.3       | 116.4                | 109.6                 | 6.79             | 17.153    |                    |        |
| 1,800.0  | 1,794.0             | 1,794.2             | 1,789.3             | 3.8             | 3.7         | -121.36               | -112.8                            | 36.7       | 126.1                | 118.9                 | 7.25             | 17.406    |                    |        |
| 1,900.0  | 1,893.3             | 1,893.7             | 1,888.4             | 4.0             | 4.0         | -121.90               | -122.0                            | 38.0       | 135.9                | 128.2                 | 7.71             | 17.628    |                    |        |
| 2,000.0  | 1,992.7             | 1,993.3             | 1,987.5             | 4.3             | 4.2         | -122.37               | -131.1                            | 39.4       | 145.6                | 137.5                 | 8.17             | 17.824    |                    |        |
| 2,100.0  | 2,092.0             | 2,092.8             | 2,086.6             | 4.6             | 4.4         | -122.78               | -140.3                            | 40.8       | 155.4                | 146.7                 | 8.63             | 18.000    |                    |        |
| 2,200.0  | 2,191.4             | 2,192.3             | 2,185.6             | 4.8             | 4.7         | -123.14               | -149.4                            | 42.2       | 165.1                | 156.0                 | 9.09             | 18.158    |                    |        |
| 2,300.0  | 2,290.7             | 2,291.8             | 2,284.7             | 5.1             | 4.9         | -123.46               | -158.5                            | 43.6       | 174.9                | 165.3                 | 9.56             | 18.300    |                    |        |
| 2,400.0  | 2,390.0             | 2,391.3             | 2,383.8             | 5.3             | 5.1         | -123.74               | -167.7                            | 45.0       | 184.7                | 174.6                 | 10.02            | 18.429    |                    |        |
| 2,500.0  | 2,489.4             | 2,490.8             | 2,482.9             | 5.6             | 5.4         | -124.00               | -176.8                            | 46.3       | 194.4                | 184.0                 | 10.48            | 18.546    |                    |        |
| 2,600.0  | 2,588.7             | 2,590.4             | 2,582.0             | 5.9             | 5.6         | -124.24               | -186.0                            | 47.7       | 204.2                | 193.3                 | 10.95            | 18.653    |                    |        |
| 2,700.0  | 2,688.1             | 2,689.9             | 2,681.1             | 6.1             | 5.9         | -124.45               | -195.1                            | 49.1       | 214.0                | 202.6                 | 11.41            | 18.752    |                    |        |
| 2,800.0  | 2,787.4             | 2,789.4             | 2,780.2             | 6.4             | 6.1         | -124.64               | -204.3                            | 50.5       | 223.8                | 211.9                 | 11.88            | 18.843    |                    |        |
| 2,900.0  | 2,886.7             | 2,888.9             | 2,879.3             | 6.7             | 6.3         | -124.82               | -213.4                            | 51.9       | 233.6                | 221.2                 | 12.34            | 18.926    |                    |        |
| 3,000.0  | 2,986.1             | 2,988.4             | 2,978.3             | 6.9             | 6.6         | -124.98               | -222.6                            | 53.3       | 243.3                | 230.5                 | 12.80            | 19.004    |                    |        |
| 3,100.0  | 3,085.4             | 3,088.0             | 3,077.4             | 7.2             | 6.8         | -125.13               | -231.7                            | 54.6       | 253.1                | 239.9                 | 13.27            | 19.076    |                    |        |
| 3,200.0  | 3,184.8             | 3,187.5             | 3,176.5             | 7.5             | 7.0         | -125.27               | -240.8                            | 56.0       | 262.9                | 249.2                 | 13.73            | 19.144    |                    |        |
| 3,300.0  | 3,284.1             | 3,287.0             | 3,275.6             | 7.7             | 7.3         | -125.40               | -250.0                            | 57.4       | 272.7                | 258.5                 | 14.20            | 19.206    |                    |        |
| 3,400.0  | 3,383.4             | 3,386.5             | 3,374.7             | 8.0             | 7.5         | -125.52               | -259.1                            | 58.8       | 282.5                | 267.8                 | 14.66            | 19.265    |                    |        |
| 3,500.0  | 3,482.8             | 3,486.0             | 3,473.8             | 8.2             | 7.7         | -125.63               | -268.3                            | 60.2       | 292.3                | 277.2                 | 15.13            | 19.320    |                    |        |
| 3,600.0  | 3,582.1             | 3,585.5             | 3,572.9             | 8.5             | 8.0         | -125.74               | -277.4                            | 61.6       | 302.1                | 286.5                 | 15.59            | 19.372    |                    |        |
| 3,700.0  | 3,681.5             | 3,685.1             | 3,671.9             | 8.8             | 8.2         | -125.84               | -286.6                            | 62.9       | 311.9                | 295.8                 | 16.06            | 19.421    |                    |        |
| 3,800.0  | 3,780.8             | 3,784.6             | 3,771.0             | 9.0             | 8.4         | -125.93               | -295.7                            | 64.3       | 321.7                | 305.2                 | 16.52            | 19.467    |                    |        |
| 3,900.0  | 3,880.1             | 3,884.1             | 3,870.1             | 9.3             | 8.7         | -126.02               | -304.9                            | 65.7       | 331.5                | 314.5                 | 16.99            | 19.510    |                    |        |
| 4,000.0  | 3,979.5             | 3,983.6             | 3,969.2             | 9.6             | 8.9         | -126.10               | -314.0                            | 67.1       | 341.3                | 323.8                 | 17.46            | 19.552    |                    |        |
| 4,100.0  | 4,078.8             | 4,083.1             | 4,068.3             | 9.8             | 9.2         | -126.18               | -323.1                            | 68.5       | 351.1                | 333.2                 | 17.92            | 19.591    |                    |        |
| 4,200.0  | 4,178.2             | 4,182.6             | 4,167.4             | 10.1            | 9.4         | -126.25               | -332.3                            | 69.9       | 360.9                | 342.5                 | 18.39            | 19.628    |                    |        |
| 4,300.0  | 4,277.5             | 4,282.2             | 4,266.5             | 10.4            | 9.6         | -126.32               | -341.4                            | 71.2       | 370.7                | 351.8                 | 18.85            | 19.663    |                    |        |
| 4,400.0  | 4,376.8             | 4,381.7             | 4,365.6             | 10.6            | 9.9         | -126.38               | -350.6                            | 72.6       | 380.5                | 361.2                 | 19.32            | 19.696    |                    |        |
| 4,500.0  | 4,476.2             | 4,481.2             | 4,464.6             | 10.9            | 10.1        | -126.45               | -359.7                            | 74.0       | 390.3                | 370.5                 | 19.78            | 19.728    |                    |        |
| 4,600.0  | 4,575.5             | 4,580.7             | 4,563.7             | 11.2            | 10.3        | -126.50               | -368.9                            | 75.4       | 400.1                | 379.8                 | 20.25            | 19.758    |                    |        |
| 4,700.0  | 4,674.9             | 4,680.2             | 4,662.8             | 11.4            | 10.6        | -126.56               | -378.0                            | 76.8       | 409.9                | 389.2                 | 20.71            | 19.787    |                    |        |
| 4,800.0  | 4,774.2             | 4,779.8             | 4,761.9             | 11.7            | 10.8        | -126.62               | -387.2                            | 78.2       | 419.7                | 398.5                 | 21.18            | 19.815    |                    |        |
| 4,900.0  | 4,873.5             | 4,879.3             | 4,861.0             | 12.0            | 11.1        | -126.67               | -396.3                            | 79.5       | 429.5                | 407.8                 | 21.65            | 19.842    |                    |        |
| 5,000.0  | 4,972.9             | 4,978.8             | 4,960.1             | 12.2            | 11.3        | -126.72               | -405.4                            | 80.9       | 439.3                | 417.2                 | 22.11            | 19.867    |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3N-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |  |
| 5,100.0  | 5,072.2             | 5,078.3             | 5,059.2             | 12.5            | 11.5        | -126.76               | -414.6                            | 82.3       | 449.1                | 426.5                 | 22.58                  | 19.891            |                           |  |
| 5,200.0  | 5,171.6             | 5,177.8             | 5,158.3             | 12.7            | 11.8        | -126.81               | -423.7                            | 83.7       | 458.9                | 435.8                 | 23.04                  | 19.915            |                           |  |
| 5,300.0  | 5,270.9             | 5,277.3             | 5,257.3             | 13.0            | 12.0        | -126.85               | -432.9                            | 85.1       | 468.7                | 445.2                 | 23.51                  | 19.937            |                           |  |
| 5,400.0  | 5,370.3             | 5,376.9             | 5,356.4             | 13.3            | 12.2        | -126.89               | -442.0                            | 86.5       | 478.5                | 454.5                 | 23.97                  | 19.958            |                           |  |
| 5,500.0  | 5,469.6             | 5,476.4             | 5,455.5             | 13.5            | 12.5        | -126.93               | -451.2                            | 87.9       | 488.3                | 463.8                 | 24.44                  | 19.979            |                           |  |
| 5,600.0  | 5,568.9             | 5,575.9             | 5,554.6             | 13.8            | 12.7        | -126.97               | -460.3                            | 89.2       | 498.1                | 473.2                 | 24.91                  | 19.999            |                           |  |
| 5,700.0  | 5,668.3             | 5,675.4             | 5,653.7             | 14.1            | 12.9        | -127.01               | -469.5                            | 90.6       | 507.9                | 482.5                 | 25.37                  | 20.018            |                           |  |
| 5,800.0  | 5,767.6             | 5,774.9             | 5,752.8             | 14.3            | 13.2        | -127.04               | -478.6                            | 92.0       | 517.7                | 491.9                 | 25.84                  | 20.037            |                           |  |
| 5,900.0  | 5,867.0             | 5,874.5             | 5,851.9             | 14.6            | 13.4        | -127.08               | -487.7                            | 93.4       | 527.5                | 501.2                 | 26.30                  | 20.055            |                           |  |
| 6,000.0  | 5,966.3             | 5,974.0             | 5,951.0             | 14.9            | 13.7        | -127.11               | -496.9                            | 94.8       | 537.3                | 510.5                 | 26.77                  | 20.072            |                           |  |
| 6,100.0  | 6,065.6             | 6,073.5             | 6,050.0             | 15.1            | 13.9        | -127.14               | -506.0                            | 96.2       | 547.1                | 519.9                 | 27.24                  | 20.088            |                           |  |
| 6,200.0  | 6,165.0             | 6,173.0             | 6,149.1             | 15.4            | 14.1        | -127.17               | -515.2                            | 97.5       | 556.9                | 529.2                 | 27.70                  | 20.104            |                           |  |
| 6,300.0  | 6,264.3             | 6,272.5             | 6,248.2             | 15.7            | 14.4        | -127.20               | -524.3                            | 98.9       | 566.7                | 538.6                 | 28.17                  | 20.120            |                           |  |
| 6,400.0  | 6,363.7             | 6,372.0             | 6,347.3             | 15.9            | 14.6        | -127.23               | -533.5                            | 100.3      | 576.5                | 547.9                 | 28.63                  | 20.135            |                           |  |
| 6,500.0  | 6,463.0             | 6,471.6             | 6,446.4             | 16.2            | 14.8        | -127.26               | -542.6                            | 101.7      | 586.3                | 557.2                 | 29.10                  | 20.149            |                           |  |
| 6,600.0  | 6,562.3             | 6,571.1             | 6,545.5             | 16.5            | 15.1        | -127.28               | -551.8                            | 103.1      | 596.1                | 566.6                 | 29.57                  | 20.163            |                           |  |
| 6,700.0  | 6,661.7             | 6,670.6             | 6,644.6             | 16.7            | 15.3        | -127.31               | -560.9                            | 104.5      | 605.9                | 575.9                 | 30.03                  | 20.177            |                           |  |
| 6,801.1  | 6,762.1             | 6,771.2             | 6,744.7             | 17.0            | 15.6        | -127.33               | -570.2                            | 105.9      | 615.9                | 585.4                 | 30.50                  | 20.190            |                           |  |
| 6,850.0  | 6,810.8             | 6,828.2             | 6,801.6             | 17.1            | 15.6        | -175.41               | -573.3                            | 106.6      | 620.7                | 590.1                 | 30.62                  | 20.274            |                           |  |
| 6,900.0  | 6,860.5             | 6,888.2             | 6,861.6             | 17.2            | 15.7        | 140.37                | -570.5                            | 107.5      | 625.6                | 594.9                 | 30.61                  | 20.436            |                           |  |
| 6,950.0  | 6,909.9             | 6,948.2             | 6,920.8             | 17.2            | 15.6        | 122.89                | -561.5                            | 108.3      | 630.2                | 599.7                 | 30.49                  | 20.669            |                           |  |
| 7,000.0  | 6,958.4             | 7,008.0             | 6,978.7             | 17.2            | 15.5        | 114.78                | -546.4                            | 109.1      | 634.7                | 604.4                 | 30.26                  | 20.973            |                           |  |
| 7,050.0  | 7,005.8             | 7,067.6             | 7,034.4             | 17.1            | 15.4        | 110.02                | -525.4                            | 109.9      | 638.9                | 609.0                 | 29.95                  | 21.337            |                           |  |
| 7,100.0  | 7,051.7             | 7,126.8             | 7,087.3             | 17.1            | 15.2        | 106.75                | -498.9                            | 110.6      | 642.9                | 613.4                 | 29.56                  | 21.752            |                           |  |
| 7,150.0  | 7,095.8             | 7,185.5             | 7,136.9             | 17.0            | 14.9        | 104.26                | -467.4                            | 111.3      | 646.7                | 617.6                 | 29.12                  | 22.206            |                           |  |
| 7,200.0  | 7,137.6             | 7,243.7             | 7,182.5             | 16.9            | 14.7        | 102.21                | -431.4                            | 112.0      | 650.1                | 621.5                 | 28.66                  | 22.686            |                           |  |
| 7,250.0  | 7,176.9             | 7,301.2             | 7,223.8             | 16.8            | 14.4        | 100.45                | -391.4                            | 112.5      | 653.3                | 625.1                 | 28.19                  | 23.175            |                           |  |
| 7,300.0  | 7,213.4             | 7,358.0             | 7,260.4             | 16.7            | 14.2        | 98.88                 | -348.0                            | 113.1      | 656.2                | 628.5                 | 27.75                  | 23.650            |                           |  |
| 7,350.0  | 7,246.8             | 7,414.1             | 7,292.2             | 16.6            | 13.9        | 97.45                 | -301.9                            | 113.5      | 658.8                | 631.5                 | 27.35                  | 24.089            |                           |  |
| 7,400.0  | 7,276.9             | 7,469.4             | 7,319.0             | 16.5            | 13.7        | 96.13                 | -253.5                            | 113.9      | 661.1                | 634.1                 | 27.02                  | 24.470            |                           |  |
| 7,450.0  | 7,303.4             | 7,523.9             | 7,340.7             | 16.4            | 13.6        | 94.91                 | -203.6                            | 114.2      | 663.1                | 636.3                 | 26.77                  | 24.770            |                           |  |
| 7,500.0  | 7,326.1             | 7,577.5             | 7,357.4             | 16.4            | 13.5        | 93.77                 | -152.6                            | 114.4      | 664.8                | 638.1                 | 26.62                  | 24.973            |                           |  |
| 7,550.0  | 7,344.8             | 7,630.4             | 7,369.1             | 16.4            | 13.5        | 92.71                 | -101.1                            | 114.6      | 666.1                | 639.6                 | 26.58                  | 25.066            |                           |  |
| 7,600.0  | 7,359.5             | 7,682.4             | 7,375.9             | 16.4            | 13.5        | 91.72                 | -49.6                             | 114.7      | 667.2                | 640.6                 | 26.64                  | 25.042            |                           |  |
| 7,650.0  | 7,370.0             | 7,733.5             | 7,378.0             | 16.5            | 13.6        | 90.82                 | 1.5                               | 114.7      | 668.0                | 641.1                 | 26.81                  | 24.910            |                           |  |
| 7,700.0  | 7,376.1             | 7,783.1             | 7,378.0             | 16.6            | 13.7        | 90.19                 | 51.1                              | 114.7      | 668.4                | 641.3                 | 27.10                  | 24.662            |                           |  |
| 7,746.2  | 7,378.0             | 7,829.3             | 7,378.0             | 16.8            | 13.9        | 90.00                 | 97.3                              | 114.7      | 668.6                | 641.1                 | 27.47                  | 24.341            |                           |  |
| 7,800.0  | 7,378.0             | 7,883.1             | 7,378.0             | 17.0            | 14.2        | 90.00                 | 151.1                             | 114.7      | 668.6                | 640.6                 | 27.99                  | 23.885            |                           |  |
| 7,900.0  | 7,378.0             | 7,983.1             | 7,378.0             | 17.5            | 14.8        | 90.00                 | 251.1                             | 114.7      | 668.6                | 639.3                 | 29.28                  | 22.837            |                           |  |
| 8,000.0  | 7,378.0             | 8,083.1             | 7,378.0             | 18.2            | 15.6        | 90.00                 | 351.1                             | 114.7      | 668.6                | 637.7                 | 30.91                  | 21.631            |                           |  |
| 8,100.0  | 7,378.0             | 8,183.1             | 7,378.0             | 19.0            | 16.6        | 90.00                 | 451.1                             | 114.7      | 668.6                | 635.7                 | 32.83                  | 20.362            |                           |  |
| 8,200.0  | 7,378.0             | 8,283.1             | 7,378.0             | 20.0            | 17.6        | 90.00                 | 551.1                             | 114.7      | 668.6                | 633.6                 | 35.01                  | 19.098            |                           |  |
| 8,300.0  | 7,378.0             | 8,383.1             | 7,378.0             | 21.0            | 18.8        | 90.00                 | 651.1                             | 114.7      | 668.6                | 631.2                 | 37.38                  | 17.884            |                           |  |
| 8,400.0  | 7,378.0             | 8,483.1             | 7,378.0             | 22.2            | 20.1        | 90.00                 | 751.1                             | 114.7      | 668.6                | 628.6                 | 39.93                  | 16.745            |                           |  |
| 8,500.0  | 7,378.0             | 8,583.1             | 7,378.0             | 23.4            | 21.4        | 90.00                 | 851.1                             | 114.7      | 668.6                | 626.0                 | 42.61                  | 15.691            |                           |  |
| 8,600.0  | 7,378.0             | 8,683.1             | 7,378.0             | 24.7            | 22.8        | 90.00                 | 951.1                             | 114.7      | 668.6                | 623.2                 | 45.40                  | 14.726            |                           |  |
| 8,700.0  | 7,378.0             | 8,783.1             | 7,378.0             | 26.0            | 24.2        | 90.00                 | 1,051.1                           | 114.7      | 668.6                | 620.3                 | 48.29                  | 13.845            |                           |  |
| 8,800.0  | 7,378.0             | 8,883.1             | 7,378.0             | 27.4            | 25.7        | 90.00                 | 1,151.1                           | 114.7      | 668.6                | 617.3                 | 51.25                  | 13.044            |                           |  |
| 8,900.0  | 7,378.0             | 8,983.1             | 7,378.0             | 28.8            | 27.2        | 90.00                 | 1,251.1                           | 114.7      | 668.6                | 614.3                 | 54.28                  | 12.316            |                           |  |
| 9,000.0  | 7,378.0             | 9,083.1             | 7,378.0             | 30.3            | 28.8        | 90.00                 | 1,351.1                           | 114.7      | 668.6                | 611.2                 | 57.37                  | 11.654            |                           |  |
| 9,100.0  | 7,378.0             | 9,183.1             | 7,378.0             | 31.7            | 30.3        | 90.00                 | 1,451.1                           | 114.7      | 668.6                | 608.1                 | 60.50                  | 11.051            |                           |  |
| 9,200.0  | 7,378.0             | 9,283.1             | 7,378.0             | 33.3            | 31.9        | 90.00                 | 1,551.1                           | 114.7      | 668.6                | 604.9                 | 63.67                  | 10.501            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3N-32H-K268 - Hz - Plan #2 |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD  |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                              |                      | 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 |                    |        |
| 9,246.2  | 7,378.0                | 9,329.3                | 7,378.0                | 34.0              | 32.7           | 90.00                       | 1,597.3                                 | 114.7         | 668.6                      | 603.4                       | 65.15                        | 10.263               |                    |        |
| 9,300.0  | 7,378.0                | 9,383.1                | 7,378.0                | 34.8              | 33.5           | 90.00                       | 1,651.1                                 | 114.7         | 668.1                      | 601.3                       | 66.73                        | 10.011               |                    |        |
| 9,400.0  | 7,378.0                | 9,483.0                | 7,378.0                | 36.3              | 35.1           | 90.00                       | 1,751.0                                 | 114.7         | 664.5                      | 594.8                       | 69.64                        | 9.541                |                    |        |
| 9,503.1  | 7,378.0                | 9,585.9                | 7,378.0                | 37.9              | 36.8           | 90.00                       | 1,853.9                                 | 114.7         | 657.1                      | 584.5                       | 72.59                        | 9.051                |                    |        |
| 9,600.0  | 7,378.0                | 9,682.3                | 7,378.0                | 39.4              | 38.4           | 90.00                       | 1,950.3                                 | 114.7         | 648.4                      | 572.6                       | 75.75                        | 8.560                |                    |        |
| 9,700.0  | 7,378.0                | 9,781.9                | 7,378.0                | 41.0              | 40.0           | 90.00                       | 2,049.9                                 | 114.7         | 639.4                      | 560.4                       | 79.03                        | 8.091                |                    |        |
| 9,800.0  | 7,378.0                | 9,881.5                | 7,378.0                | 42.5              | 41.7           | 90.00                       | 2,149.5                                 | 114.7         | 630.5                      | 548.2                       | 82.33                        | 7.658                |                    |        |
| 9,900.0  | 7,378.0                | 9,981.1                | 7,378.0                | 44.1              | 43.3           | 90.00                       | 2,249.1                                 | 114.7         | 621.5                      | 535.9                       | 85.65                        | 7.257                |                    |        |
| 10,000.0   | 7,378.0                | 10,080.7               | 7,378.0                | 45.7              | 45.0           | 90.00                       | 2,348.7                                 | 114.7         | 612.6                      | 523.6                       | 88.98                        | 6.885                |                    |        |
| 10,100.0   | 7,378.0                | 10,180.3               | 7,378.0                | 47.4              | 46.7           | 90.00                       | 2,448.3                                 | 114.7         | 603.6                      | 511.3                       | 92.32                        | 6.538                |                    |        |
| 10,200.0   | 7,378.0                | 10,279.9               | 7,378.0                | 49.0              | 48.3           | 90.00                       | 2,547.9                                 | 114.7         | 594.7                      | 499.0                       | 95.67                        | 6.216                |                    |        |
| 10,300.0   | 7,378.0                | 10,379.5               | 7,378.0                | 50.6              | 50.0           | 90.00                       | 2,647.5                                 | 114.7         | 585.7                      | 486.7                       | 99.03                        | 5.914                |                    |        |
| 10,400.0   | 7,378.0                | 10,479.1               | 7,378.0                | 52.3              | 51.7           | 90.00                       | 2,747.1                                 | 114.7         | 576.8                      | 474.3                       | 102.41                       | 5.632                |                    |        |
| 10,500.0   | 7,378.0                | 10,578.7               | 7,378.0                | 53.9              | 53.4           | 90.00                       | 2,846.7                                 | 114.7         | 567.8                      | 462.0                       | 105.79                       | 5.367                |                    |        |
| 10,600.0   | 7,378.0                | 10,678.3               | 7,378.0                | 55.6              | 55.1           | 90.00                       | 2,946.3                                 | 114.7         | 558.8                      | 449.7                       | 109.18                       | 5.119                |                    |        |
| 10,700.0   | 7,378.0                | 10,777.9               | 7,378.0                | 57.2              | 56.8           | 90.00                       | 3,045.9                                 | 114.7         | 549.9                      | 437.3                       | 112.57                       | 4.885                |                    |        |
| 10,761.7   | 7,378.0                | 10,835.7               | 7,378.0                | 58.3              | 57.8           | 90.00                       | 3,103.7                                 | 114.7         | 544.4                      | 429.8                       | 114.61                       | 4.750 SF             |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3O-32H-K268 - Hz - Plan #2 |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      |         | 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<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 | Warning |                    |        |
| 0.0  | 0.0                    | 0.0                    | 0.0                    | 0.0               | 0.0            | 98.23                       | -3.6                                    | 25.2          | 25.4                       |                             |                              |                      |         |                    |        |
| 100.0  | 100.0                  | 100.0                  | 100.0                  | 0.2               | 0.2            | 98.23                       | -3.6                                    | 25.2          | 25.4                       | 25.1                        | 0.30                         | 83.776               |         |                    |        |
| 200.0  | 200.0                  | 200.0                  | 200.0                  | 0.3               | 0.3            | 98.23                       | -3.6                                    | 25.2          | 25.4                       | 24.8                        | 0.65                         | 38.976               |         |                    |        |
| 233.5  | 233.5                  | 233.5                  | 233.5                  | 0.4               | 0.4            | 98.23                       | -3.6                                    | 25.2          | 25.4                       | 24.7                        | 0.77                         | 33.050 CC            |         |                    |        |
| 300.0  | 300.0                  | 299.8                  | 299.8                  | 0.5               | 0.5            | 98.57                       | -3.8                                    | 25.3          | 25.6                       | 24.6                        | 1.00                         | 25.556 ES            |         |                    |        |
| 400.0  | 400.0                  | 399.5                  | 399.5                  | 0.7               | 0.7            | 101.16                      | -5.2                                    | 26.4          | 26.9                       | 25.5                        | 1.35                         | 19.870               |         |                    |        |
| 450.0  | 450.0                  | 449.3                  | 449.3                  | 0.8               | 0.8            | 103.23                      | -6.4                                    | 27.3          | 28.0                       | 26.5                        | 1.53                         | 18.314               |         |                    |        |
| 500.0  | 500.0                  | 499.1                  | 499.0                  | 0.9               | 0.9            | -121.36                     | -8.0                                    | 28.4          | 29.7                       | 28.0                        | 1.70                         | 17.427               |         |                    |        |
| 600.0  | 600.0                  | 598.5                  | 598.3                  | 1.0               | 1.0            | -118.52                     | -12.1                                   | 31.6          | 34.7                       | 32.7                        | 2.06                         | 16.893               |         |                    |        |
| 700.0  | 699.9                  | 697.6                  | 697.2                  | 1.2               | 1.3            | -117.23                     | -17.6                                   | 35.7          | 42.1                       | 39.7                        | 2.42                         | 17.423               |         |                    |        |
| 800.0  | 799.8                  | 796.5                  | 795.7                  | 1.4               | 1.5            | -116.97                     | -24.5                                   | 40.8          | 51.7                       | 48.9                        | 2.79                         | 18.552               |         |                    |        |
| 900.0  | 899.5                  | 895.1                  | 893.7                  | 1.6               | 1.7            | -117.31                     | -32.6                                   | 47.0          | 63.5                       | 60.3                        | 3.17                         | 20.027               |         |                    |        |
| 1,000.0  | 999.2                  | 994.2                  | 992.2                  | 1.8               | 1.9            | -118.37                     | -41.4                                   | 53.6          | 76.7                       | 73.2                        | 3.57                         | 21.474               |         |                    |        |
| 1,108.4  | 1,106.9                | 1,101.4                | 1,098.8                | 2.1               | 2.2            | -120.20                     | -50.9                                   | 60.7          | 92.0                       | 88.0                        | 4.03                         | 22.851               |         |                    |        |
| 1,200.0  | 1,197.9                | 1,192.0                | 1,188.8                | 2.3               | 2.4            | -121.82                     | -58.9                                   | 66.8          | 105.5                      | 101.1                       | 4.42                         | 23.861               |         |                    |        |
| 1,300.0  | 1,297.3                | 1,290.9                | 1,287.1                | 2.5               | 2.7            | -123.17                     | -67.6                                   | 73.4          | 120.3                      | 115.4                       | 4.86                         | 24.768               |         |                    |        |
| 1,400.0  | 1,396.6                | 1,389.8                | 1,385.3                | 2.8               | 2.9            | -124.23                     | -76.4                                   | 79.9          | 135.1                      | 129.8                       | 5.29                         | 25.520               |         |                    |        |
| 1,500.0  | 1,496.0                | 1,488.6                | 1,483.6                | 3.0               | 3.2            | -125.08                     | -85.1                                   | 86.5          | 149.9                      | 144.2                       | 5.73                         | 26.151               |         |                    |        |
| 1,600.0  | 1,595.3                | 1,587.5                | 1,581.9                | 3.3               | 3.4            | -125.77                     | -93.9                                   | 93.1          | 164.8                      | 158.6                       | 6.17                         | 26.689               |         |                    |        |
| 1,700.0  | 1,694.7                | 1,686.4                | 1,680.1                | 3.5               | 3.7            | -126.35                     | -102.6                                  | 99.7          | 179.7                      | 173.1                       | 6.62                         | 27.151               |         |                    |        |
| 1,800.0  | 1,794.0                | 1,785.2                | 1,778.4                | 3.8               | 3.9            | -126.85                     | -111.4                                  | 106.3         | 194.6                      | 187.5                       | 7.06                         | 27.553               |         |                    |        |
| 1,900.0  | 1,893.3                | 1,884.1                | 1,876.7                | 4.0               | 4.2            | -127.27                     | -120.1                                  | 112.9         | 209.5                      | 202.0                       | 7.51                         | 27.905               |         |                    |        |
| 2,000.0  | 1,992.7                | 1,983.0                | 1,974.9                | 4.3               | 4.5            | -127.63                     | -128.9                                  | 119.5         | 224.4                      | 216.5                       | 7.95                         | 28.216               |         |                    |        |
| 2,100.0  | 2,092.0                | 2,081.8                | 2,073.2                | 4.6               | 4.7            | -127.95                     | -137.6                                  | 126.1         | 239.4                      | 231.0                       | 8.40                         | 28.492               |         |                    |        |
| 2,200.0  | 2,191.4                | 2,180.7                | 2,171.4                | 4.8               | 5.0            | -128.23                     | -146.4                                  | 132.6         | 254.3                      | 245.4                       | 8.85                         | 28.740               |         |                    |        |
| 2,300.0  | 2,290.7                | 2,279.6                | 2,269.7                | 5.1               | 5.2            | -128.48                     | -155.1                                  | 139.2         | 269.2                      | 259.9                       | 9.30                         | 28.962               |         |                    |        |
| 2,400.0  | 2,390.0                | 2,378.5                | 2,368.0                | 5.3               | 5.5            | -128.71                     | -163.9                                  | 145.8         | 284.2                      | 274.5                       | 9.74                         | 29.164               |         |                    |        |
| 2,500.0  | 2,489.4                | 2,477.3                | 2,466.2                | 5.6               | 5.7            | -128.91                     | -172.6                                  | 152.4         | 299.2                      | 289.0                       | 10.19                        | 29.347               |         |                    |        |
| 2,600.0  | 2,588.7                | 2,576.2                | 2,564.5                | 5.9               | 6.0            | -129.09                     | -181.4                                  | 159.0         | 314.1                      | 303.5                       | 10.64                        | 29.514               |         |                    |        |
| 2,700.0  | 2,688.1                | 2,675.1                | 2,662.7                | 6.1               | 6.2            | -129.26                     | -190.1                                  | 165.6         | 329.1                      | 318.0                       | 11.09                        | 29.667               |         |                    |        |
| 2,800.0  | 2,787.4                | 2,773.9                | 2,761.0                | 6.4               | 6.5            | -129.41                     | -198.9                                  | 172.2         | 344.0                      | 332.5                       | 11.54                        | 29.808               |         |                    |        |
| 2,900.0  | 2,886.7                | 2,872.8                | 2,859.3                | 6.7               | 6.8            | -129.55                     | -207.6                                  | 178.7         | 359.0                      | 347.0                       | 11.99                        | 29.938               |         |                    |        |
| 3,000.0  | 2,986.1                | 2,971.7                | 2,957.5                | 6.9               | 7.0            | -129.68                     | -216.4                                  | 185.3         | 374.0                      | 361.5                       | 12.44                        | 30.058               |         |                    |        |
| 3,100.0  | 3,085.4                | 3,070.5                | 3,055.8                | 7.2               | 7.3            | -129.80                     | -225.1                                  | 191.9         | 388.9                      | 376.1                       | 12.89                        | 30.169               |         |                    |        |
| 3,200.0  | 3,184.8                | 3,169.4                | 3,154.1                | 7.5               | 7.5            | -129.91                     | -233.9                                  | 198.5         | 403.9                      | 390.6                       | 13.34                        | 30.273               |         |                    |        |
| 3,300.0  | 3,284.1                | 3,268.3                | 3,252.3                | 7.7               | 7.8            | -130.01                     | -242.6                                  | 205.1         | 418.9                      | 405.1                       | 13.79                        | 30.370               |         |                    |        |
| 3,400.0  | 3,383.4                | 3,367.2                | 3,350.6                | 8.0               | 8.0            | -130.10                     | -251.4                                  | 211.7         | 433.9                      | 419.6                       | 14.24                        | 30.460               |         |                    |        |
| 3,500.0  | 3,482.8                | 3,466.0                | 3,448.8                | 8.2               | 8.3            | -130.19                     | -260.1                                  | 218.3         | 448.8                      | 434.1                       | 14.69                        | 30.545               |         |                    |        |
| 3,600.0  | 3,582.1                | 3,564.9                | 3,547.1                | 8.5               | 8.6            | -130.27                     | -268.9                                  | 224.9         | 463.8                      | 448.7                       | 15.15                        | 30.625               |         |                    |        |
| 3,700.0  | 3,681.5                | 3,663.8                | 3,645.4                | 8.8               | 8.8            | -130.35                     | -277.6                                  | 231.4         | 478.8                      | 463.2                       | 15.60                        | 30.699               |         |                    |        |
| 3,800.0  | 3,780.8                | 3,762.6                | 3,743.6                | 9.0               | 9.1            | -130.42                     | -286.4                                  | 238.0         | 493.8                      | 477.7                       | 16.05                        | 30.770               |         |                    |        |
| 3,900.0  | 3,880.1                | 3,861.5                | 3,841.9                | 9.3               | 9.3            | -130.49                     | -295.1                                  | 244.6         | 508.7                      | 492.2                       | 16.50                        | 30.837               |         |                    |        |
| 4,000.0  | 3,979.5                | 3,960.4                | 3,940.2                | 9.6               | 9.6            | -130.56                     | -303.9                                  | 251.2         | 523.7                      | 506.8                       | 16.95                        | 30.900               |         |                    |        |
| 4,100.0  | 4,078.8                | 4,059.2                | 4,038.4                | 9.8               | 9.8            | -130.62                     | -312.6                                  | 257.8         | 538.7                      | 521.3                       | 17.40                        | 30.959               |         |                    |        |
| 4,200.0  | 4,178.2                | 4,158.1                | 4,136.7                | 10.1              | 10.1           | -130.67                     | -321.4                                  | 264.4         | 553.7                      | 535.8                       | 17.85                        | 31.016               |         |                    |        |
| 4,300.0  | 4,277.5                | 4,257.0                | 4,234.9                | 10.4              | 10.4           | -130.73                     | -330.1                                  | 271.0         | 568.7                      | 550.4                       | 18.30                        | 31.069               |         |                    |        |
| 4,400.0  | 4,376.8                | 4,355.9                | 4,333.2                | 10.6              | 10.6           | -130.78                     | -338.9                                  | 277.5         | 583.6                      | 564.9                       | 18.75                        | 31.120               |         |                    |        |
| 4,500.0  | 4,476.2                | 4,454.7                | 4,431.5                | 10.9              | 10.9           | -130.83                     | -347.6                                  | 284.1         | 598.6                      | 579.4                       | 19.21                        | 31.169               |         |                    |        |
| 4,600.0  | 4,575.5                | 4,553.6                | 4,529.7                | 11.2              | 11.1           | -130.88                     | -356.4                                  | 290.7         | 613.6                      | 594.0                       | 19.66                        | 31.215               |         |                    |        |
| 4,700.0  | 4,674.9                | 4,652.5                | 4,628.0                | 11.4              | 11.4           | -130.92                     | -365.1                                  | 297.3         | 628.6                      | 608.5                       | 20.11                        | 31.259               |         |                    |        |
| 4,800.0  | 4,774.2                | 4,751.3                | 4,726.2                | 11.7              | 11.6           | -130.96                     | -373.9                                  | 303.9         | 643.6                      | 623.0                       | 20.56                        | 31.301               |         |                    |        |
| 4,900.0  | 4,873.5                | 4,850.2                | 4,824.5                | 12.0              | 11.9           | -131.00                     | -382.6                                  | 310.5         | 658.6                      | 637.5                       | 21.01                        | 31.342               |         |                    |        |

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



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3O-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | Warning |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |         |
| 5,000.0  | 4,972.9             | 4,949.1             | 4,922.8             | 12.2            | 12.2        | -131.04               | -391.4                            | 317.1      | 673.5                | 652.1                 | 21.46                  | 31.380            |                           |         |
| 5,100.0  | 5,072.2             | 5,047.9             | 5,021.0             | 12.5            | 12.4        | -131.08               | -400.1                            | 323.7      | 688.5                | 666.6                 | 21.92                  | 31.417            |                           |         |
| 5,200.0  | 5,171.6             | 5,146.8             | 5,119.3             | 12.7            | 12.7        | -131.12               | -408.9                            | 330.2      | 703.5                | 681.1                 | 22.37                  | 31.453            |                           |         |
| 5,300.0  | 5,270.9             | 5,245.7             | 5,217.6             | 13.0            | 12.9        | -131.15               | -417.6                            | 336.8      | 718.5                | 695.7                 | 22.82                  | 31.487            |                           |         |
| 5,400.0  | 5,370.3             | 5,344.6             | 5,315.8             | 13.3            | 13.2        | -131.18               | -426.4                            | 343.4      | 733.5                | 710.2                 | 23.27                  | 31.519            |                           |         |
| 5,500.0  | 5,469.6             | 5,443.4             | 5,414.1             | 13.5            | 13.4        | -131.21               | -435.1                            | 350.0      | 748.5                | 724.7                 | 23.72                  | 31.551            |                           |         |
| 5,600.0  | 5,568.9             | 5,542.3             | 5,512.3             | 13.8            | 13.7        | -131.24               | -443.9                            | 356.6      | 763.5                | 739.3                 | 24.17                  | 31.581            |                           |         |
| 5,700.0  | 5,668.3             | 5,641.2             | 5,610.6             | 14.1            | 14.0        | -131.27               | -452.6                            | 363.2      | 778.4                | 753.8                 | 24.63                  | 31.610            |                           |         |
| 5,800.0  | 5,767.6             | 5,740.0             | 5,708.9             | 14.3            | 14.2        | -131.30               | -461.4                            | 369.8      | 793.4                | 768.3                 | 25.08                  | 31.638            |                           |         |
| 5,900.0  | 5,867.0             | 5,838.9             | 5,807.1             | 14.6            | 14.5        | -131.33               | -470.1                            | 376.3      | 808.4                | 782.9                 | 25.53                  | 31.665            |                           |         |
| 6,000.0  | 5,966.3             | 5,937.8             | 5,905.4             | 14.9            | 14.7        | -131.35               | -478.9                            | 382.9      | 823.4                | 797.4                 | 25.98                  | 31.691            |                           |         |
| 6,100.0  | 6,065.6             | 6,036.6             | 6,003.6             | 15.1            | 15.0        | -131.38               | -487.6                            | 389.5      | 838.4                | 811.9                 | 26.43                  | 31.716            |                           |         |
| 6,200.0  | 6,165.0             | 6,135.5             | 6,101.9             | 15.4            | 15.2        | -131.40               | -496.4                            | 396.1      | 853.4                | 826.5                 | 26.89                  | 31.741            |                           |         |
| 6,300.0  | 6,264.3             | 6,234.4             | 6,200.2             | 15.7            | 15.5        | -131.43               | -505.1                            | 402.7      | 868.4                | 841.0                 | 27.34                  | 31.764            |                           |         |
| 6,400.0  | 6,363.7             | 6,333.3             | 6,298.4             | 15.9            | 15.8        | -131.45               | -513.9                            | 409.3      | 883.3                | 855.5                 | 27.79                  | 31.787            |                           |         |
| 6,500.0  | 6,463.0             | 6,432.1             | 6,396.7             | 16.2            | 16.0        | -131.47               | -522.6                            | 415.9      | 898.3                | 870.1                 | 28.24                  | 31.809            |                           |         |
| 6,600.0  | 6,562.3             | 6,531.0             | 6,495.0             | 16.5            | 16.3        | -131.49               | -531.4                            | 422.4      | 913.3                | 884.6                 | 28.69                  | 31.830            |                           |         |
| 6,700.0  | 6,661.7             | 6,629.9             | 6,593.2             | 16.7            | 16.5        | -131.51               | -540.1                            | 429.0      | 928.3                | 899.2                 | 29.15                  | 31.851            |                           |         |
| 6,801.1  | 6,762.1             | 6,729.8             | 6,692.6             | 17.0            | 16.8        | -131.53               | -549.0                            | 435.7      | 943.5                | 913.8                 | 29.60                  | 31.871            |                           |         |
| 6,850.0  | 6,810.8             | 6,778.1             | 6,740.5             | 17.1            | 16.9        | -179.79               | -553.2                            | 438.9      | 951.0                | 921.2                 | 29.76                  | 31.949            |                           |         |
| 6,900.0  | 6,860.5             | 6,827.0             | 6,789.2             | 17.2            | 17.1        | 136.10                | -557.6                            | 442.2      | 959.0                | 929.1                 | 29.89                  | 32.088            |                           |         |
| 6,950.0  | 6,909.9             | 6,875.2             | 6,837.0             | 17.2            | 17.2        | 118.99                | -561.8                            | 445.4      | 967.5                | 937.5                 | 29.97                  | 32.286            |                           |         |
| 7,000.0  | 6,958.4             | 6,922.2             | 6,883.7             | 17.2            | 17.3        | 111.49                | -566.0                            | 448.5      | 976.4                | 946.4                 | 30.00                  | 32.545            |                           |         |
| 7,050.0  | 7,005.8             | 6,967.7             | 6,928.9             | 17.1            | 17.4        | 107.53                | -570.0                            | 451.5      | 985.9                | 955.9                 | 29.99                  | 32.867            |                           |         |
| 7,100.0  | 7,051.7             | 7,011.3             | 6,972.3             | 17.1            | 17.5        | 105.18                | -573.9                            | 454.4      | 996.1                | 966.1                 | 29.95                  | 33.256            |                           |         |
| 7,150.0  | 7,095.8             | 7,067.7             | 7,028.5             | 17.0            | 17.6        | 104.08                | -577.1                            | 458.2      | 1,006.9              | 977.1                 | 29.86                  | 33.724            |                           |         |
| 7,200.0  | 7,137.6             | 7,133.7             | 7,094.2             | 16.9            | 17.7        | 103.63                | -573.9                            | 462.5      | 1,017.8              | 988.2                 | 29.67                  | 34.309            |                           |         |
| 7,250.0  | 7,176.9             | 7,205.7             | 7,165.0             | 16.8            | 17.7        | 103.52                | -561.9                            | 467.1      | 1,028.6              | 999.2                 | 29.38                  | 35.014            |                           |         |
| 7,300.0  | 7,213.4             | 7,284.7             | 7,240.2             | 16.7            | 17.6        | 103.65                | -538.5                            | 471.9      | 1,038.9              | 1,009.9               | 28.97                  | 35.854            |                           |         |
| 7,350.0  | 7,246.8             | 7,371.3             | 7,318.2             | 16.6            | 17.3        | 103.90                | -501.3                            | 476.7      | 1,048.4              | 1,019.9               | 28.48                  | 36.812            |                           |         |
| 7,400.0  | 7,276.9             | 7,466.0             | 7,396.0             | 16.5            | 17.0        | 104.18                | -447.7                            | 481.4      | 1,056.7              | 1,028.8               | 27.92                  | 37.852            |                           |         |
| 7,450.0  | 7,303.4             | 7,568.1             | 7,468.7             | 16.4            | 16.7        | 104.35                | -376.4                            | 485.6      | 1,063.6              | 1,036.2               | 27.35                  | 38.887            |                           |         |
| 7,500.0  | 7,326.1             | 7,676.0             | 7,530.6             | 16.4            | 16.3        | 104.32                | -288.2                            | 488.9      | 1,068.6              | 1,041.7               | 26.88                  | 39.759            |                           |         |
| 7,550.0  | 7,344.8             | 7,787.0             | 7,576.0             | 16.4            | 16.1        | 104.00                | -187.1                            | 491.1      | 1,071.4              | 1,044.8               | 26.60                  | 40.273            |                           |         |
| 7,600.0  | 7,359.5             | 7,897.6             | 7,601.0             | 16.4            | 16.0        | 103.35                | -79.6                             | 491.8      | 1,072.2              | 1,045.5               | 26.62                  | 40.277            |                           |         |
| 7,650.0  | 7,370.0             | 7,988.0             | 7,606.0             | 16.5            | 16.2        | 102.61                | 10.6                              | 491.3      | 1,070.9              | 1,044.0               | 26.89                  | 39.830            |                           |         |
| 7,700.0  | 7,376.1             | 8,037.6             | 7,606.0             | 16.6            | 16.3        | 102.36                | 60.2                              | 490.9      | 1,069.7              | 1,042.4               | 27.20                  | 39.319            |                           |         |
| 7,746.2  | 7,378.0             | 8,083.8             | 7,606.0             | 16.8            | 16.4        | 102.32                | 106.4                             | 490.5      | 1,069.0              | 1,041.5               | 27.56                  | 38.790            |                           |         |
| 7,800.0  | 7,378.0             | 8,137.6             | 7,606.0             | 17.0            | 16.7        | 102.32                | 160.2                             | 490.0      | 1,068.6              | 1,040.5               | 28.10                  | 38.030            |                           |         |
| 7,900.0  | 7,378.0             | 8,237.6             | 7,606.0             | 17.5            | 17.2        | 102.33                | 260.2                             | 489.2      | 1,067.7              | 1,038.3               | 29.37                  | 36.360            |                           |         |
| 8,000.0  | 7,378.0             | 8,337.6             | 7,606.0             | 18.2            | 18.0        | 102.34                | 360.2                             | 488.3      | 1,066.9              | 1,035.9               | 30.96                  | 34.457            |                           |         |
| 8,100.0  | 7,378.0             | 8,437.6             | 7,606.0             | 19.0            | 18.8        | 102.35                | 460.2                             | 487.4      | 1,066.0              | 1,033.2               | 32.84                  | 32.460            |                           |         |
| 8,200.0  | 7,378.0             | 8,537.6             | 7,606.0             | 20.0            | 19.8        | 102.36                | 560.1                             | 486.5      | 1,065.1              | 1,030.2               | 34.95                  | 30.473            |                           |         |
| 8,300.0  | 7,378.0             | 8,637.6             | 7,606.0             | 21.0            | 20.9        | 102.37                | 660.1                             | 485.7      | 1,064.3              | 1,027.0               | 37.26                  | 28.561            |                           |         |
| 8,400.0  | 7,378.0             | 8,737.6             | 7,606.0             | 22.2            | 22.0        | 102.38                | 760.1                             | 484.8      | 1,063.4              | 1,023.7               | 39.74                  | 26.763            |                           |         |
| 8,500.0  | 7,378.0             | 8,837.6             | 7,606.0             | 23.4            | 23.3        | 102.39                | 860.1                             | 483.9      | 1,062.6              | 1,020.2               | 42.34                  | 25.097            |                           |         |
| 8,600.0  | 7,378.0             | 8,937.5             | 7,606.0             | 24.7            | 24.6        | 102.40                | 960.1                             | 483.0      | 1,061.7              | 1,016.7               | 45.05                  | 23.566            |                           |         |
| 8,700.0  | 7,378.0             | 9,037.5             | 7,606.0             | 26.0            | 25.9        | 102.41                | 1,060.1                           | 482.2      | 1,060.9              | 1,013.0               | 47.86                  | 22.166            |                           |         |
| 8,800.0  | 7,378.0             | 9,137.5             | 7,606.0             | 27.4            | 27.3        | 102.42                | 1,160.1                           | 481.3      | 1,060.0              | 1,009.3               | 50.74                  | 20.891            |                           |         |
| 8,900.0  | 7,378.0             | 9,237.5             | 7,606.0             | 28.8            | 28.8        | 102.43                | 1,260.1                           | 480.4      | 1,059.2              | 1,005.5               | 53.69                  | 19.729            |                           |         |
| 9,000.0  | 7,378.0             | 9,337.5             | 7,606.0             | 30.3            | 30.2        | 102.44                | 1,360.1                           | 479.6      | 1,058.3              | 1,001.6               | 56.69                  | 18.670            |                           |         |
| 9,100.0  | 7,378.0             | 9,437.5             | 7,606.0             | 31.7            | 31.7        | 102.45                | 1,460.1                           | 478.7      | 1,057.5              | 997.7                 | 59.73                  | 17.704            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3O-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Site Error: 0.0 ft |                   |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|-------------------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Well Error: 0.0 ft |                   |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        | Warning                   |                   |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis |                           | Separation Factor |
| 9,200.0  | 7,378.0             | 9,537.5             | 7,606.0             | 33.3            | 33.2        | 102.46                | 1,560.1                           | 477.8      | 1,056.6              | 993.8                 | 62.82                  | 16.821                    |                   |
| 9,246.2  | 7,378.0             | 9,583.8             | 7,606.0             | 34.0            | 34.0        | 102.47                | 1,606.3                           | 477.4      | 1,056.2              | 992.0                 | 64.25                  | 16.439                    |                   |
| 9,300.0  | 7,378.0             | 9,637.5             | 7,606.0             | 34.8            | 34.8        | 102.48                | 1,660.1                           | 476.9      | 1,055.3              | 989.4                 | 65.90                  | 16.014                    |                   |
| 9,400.0  | 7,378.0             | 9,737.4             | 7,606.0             | 36.3            | 36.4        | 102.55                | 1,759.9                           | 476.1      | 1,050.9              | 982.0                 | 68.92                  | 15.248                    |                   |
| 9,503.1  | 7,378.0             | 9,840.2             | 7,606.0             | 37.9            | 38.0        | 102.69                | 1,862.7                           | 475.2      | 1,042.8              | 970.8                 | 71.97                  | 14.490                    |                   |
| 9,600.0  | 7,378.0             | 9,936.6             | 7,606.0             | 39.4            | 39.5        | 102.80                | 1,959.1                           | 474.3      | 1,033.5              | 958.5                 | 75.01                  | 13.778                    |                   |
| 9,700.0  | 7,378.0             | 10,036.1            | 7,606.0             | 41.0            | 41.1        | 102.93                | 2,058.6                           | 473.5      | 1,023.9              | 945.8                 | 78.17                  | 13.099                    |                   |
| 9,800.0  | 7,378.0             | 10,135.6            | 7,606.0             | 42.5            | 42.7        | 103.05                | 2,158.2                           | 472.6      | 1,014.4              | 933.0                 | 81.35                  | 12.470                    |                   |
| 9,900.0  | 7,378.0             | 10,235.1            | 7,606.0             | 44.1            | 44.4        | 103.18                | 2,257.7                           | 471.7      | 1,004.8              | 920.3                 | 84.53                  | 11.887                    |                   |
| 10,000.0   | 7,378.0             | 10,334.7            | 7,606.0             | 45.7            | 46.0        | 103.31                | 2,357.2                           | 470.9      | 995.2                | 907.5                 | 87.73                  | 11.345                    |                   |
| 10,100.0   | 7,378.0             | 10,434.2            | 7,606.0             | 47.4            | 47.6        | 103.44                | 2,456.7                           | 470.0      | 985.7                | 894.7                 | 90.93                  | 10.840                    |                   |
| 10,200.0   | 7,378.0             | 10,533.7            | 7,606.0             | 49.0            | 49.3        | 103.57                | 2,556.2                           | 469.1      | 976.1                | 882.0                 | 94.14                  | 10.369                    |                   |
| 10,300.0   | 7,378.0             | 10,633.2            | 7,606.0             | 50.6            | 50.9        | 103.71                | 2,655.7                           | 468.2      | 966.6                | 869.2                 | 97.35                  | 9.929                     |                   |
| 10,400.0   | 7,378.0             | 10,732.7            | 7,606.0             | 52.3            | 52.6        | 103.85                | 2,755.2                           | 467.4      | 957.0                | 856.5                 | 100.57                 | 9.516                     |                   |
| 10,500.0   | 7,378.0             | 10,832.2            | 7,606.0             | 53.9            | 54.3        | 103.99                | 2,854.7                           | 466.5      | 947.5                | 843.7                 | 103.79                 | 9.129                     |                   |
| 10,600.0   | 7,378.0             | 10,931.8            | 7,606.0             | 55.6            | 55.9        | 104.13                | 2,954.3                           | 465.6      | 938.0                | 830.9                 | 107.01                 | 8.765                     |                   |
| 10,700.0   | 7,378.0             | 11,031.3            | 7,606.0             | 57.2            | 57.6        | 104.28                | 3,053.8                           | 464.8      | 928.4                | 818.2                 | 110.23                 | 8.422                     |                   |
| 10,761.7   | 7,378.0             | 11,077.5            | 7,606.0             | 58.3            | 58.4        | 104.35                | 3,100.0                           | 464.4      | 922.7                | 810.7                 | 111.98                 | 8.240 SF                  |                   |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3P-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | 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                               | 30.8       | 30.8                 |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.2             | 0.2         | 90.00                 | 0.0                               | 30.8       | 30.8                 | 30.5                  | 0.30                   | 101.338           |                           |         |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3             | 0.3         | 90.00                 | 0.0                               | 30.8       | 30.8                 | 30.1                  | 0.65                   | 47.147 CC, ES     |                           |         |
| 300.0  | 300.0               | 299.6               | 299.6               | 0.5             | 0.5         | 90.99                 | -0.5                              | 31.4       | 31.5                 | 30.5                  | 1.00                   | 31.395            |                           |         |
| 400.0  | 400.0               | 399.1               | 399.0               | 0.7             | 0.7         | 93.70                 | -2.2                              | 33.5       | 33.6                 | 32.2                  | 1.36                   | 24.759            |                           |         |
| 450.0  | 450.0               | 448.8               | 448.7               | 0.8             | 0.8         | 95.52                 | -3.4                              | 35.0       | 35.2                 | 33.6                  | 1.54                   | 22.909            |                           |         |
| 500.0  | 500.0               | 498.5               | 498.3               | 0.9             | 0.9         | -129.38               | -4.9                              | 36.8       | 37.3                 | 35.6                  | 1.70                   | 21.926            |                           |         |
| 600.0  | 600.0               | 597.7               | 597.3               | 1.0             | 1.1         | -126.95               | -8.6                              | 41.5       | 43.7                 | 41.6                  | 2.06                   | 21.233            |                           |         |
| 700.0  | 699.9               | 696.5               | 695.9               | 1.2             | 1.3         | -125.79               | -13.5                             | 47.5       | 52.6                 | 50.2                  | 2.41                   | 21.775            |                           |         |
| 800.0  | 799.8               | 795.0               | 793.9               | 1.4             | 1.5         | -125.51               | -19.3                             | 54.8       | 64.0                 | 61.2                  | 2.78                   | 23.025            |                           |         |
| 900.0  | 899.5               | 892.9               | 891.2               | 1.6             | 1.7         | -125.72               | -26.2                             | 63.4       | 78.0                 | 74.8                  | 3.16                   | 24.692            |                           |         |
| 1,000.0  | 999.2               | 990.3               | 987.8               | 1.8             | 2.0         | -126.19               | -34.1                             | 73.2       | 94.4                 | 90.9                  | 3.55                   | 26.602            |                           |         |
| 1,108.4  | 1,106.9             | 1,095.8             | 1,092.2             | 2.1             | 2.3         | -126.87               | -43.6                             | 85.1       | 114.9                | 110.9                 | 3.99                   | 28.771            |                           |         |
| 1,200.0  | 1,197.9             | 1,185.7             | 1,181.1             | 2.3             | 2.6         | -127.64               | -51.9                             | 95.4       | 132.9                | 128.6                 | 4.38                   | 30.348            |                           |         |
| 1,300.0  | 1,297.3             | 1,283.7             | 1,278.0             | 2.5             | 2.9         | -128.27               | -60.9                             | 106.6      | 152.6                | 147.8                 | 4.81                   | 31.750            |                           |         |
| 1,400.0  | 1,396.6             | 1,381.7             | 1,375.0             | 2.8             | 3.2         | -128.75               | -69.9                             | 117.9      | 172.3                | 167.1                 | 5.24                   | 32.901            |                           |         |
| 1,500.0  | 1,496.0             | 1,479.8             | 1,472.0             | 3.0             | 3.5         | -129.14               | -79.0                             | 129.1      | 192.0                | 186.4                 | 5.67                   | 33.860            |                           |         |
| 1,600.0  | 1,595.3             | 1,577.8             | 1,568.9             | 3.3             | 3.8         | -129.45               | -88.0                             | 140.3      | 211.8                | 205.7                 | 6.11                   | 34.671            |                           |         |
| 1,700.0  | 1,694.7             | 1,675.8             | 1,665.9             | 3.5             | 4.1         | -129.71               | -97.0                             | 151.6      | 231.5                | 224.9                 | 6.55                   | 35.364            |                           |         |
| 1,800.0  | 1,794.0             | 1,773.8             | 1,762.9             | 3.8             | 4.4         | -129.93               | -106.0                            | 162.8      | 251.2                | 244.2                 | 6.99                   | 35.962            |                           |         |
| 1,900.0  | 1,893.3             | 1,871.9             | 1,859.8             | 4.0             | 4.7         | -130.12               | -115.0                            | 174.0      | 271.0                | 263.5                 | 7.43                   | 36.484            |                           |         |
| 2,000.0  | 1,992.7             | 1,969.9             | 1,956.8             | 4.3             | 5.0         | -130.28               | -124.1                            | 185.3      | 290.7                | 282.8                 | 7.87                   | 36.942            |                           |         |
| 2,100.0  | 2,092.0             | 2,067.9             | 2,053.8             | 4.6             | 5.3         | -130.43               | -133.1                            | 196.5      | 310.4                | 302.1                 | 8.31                   | 37.348            |                           |         |
| 2,200.0  | 2,191.4             | 2,166.0             | 2,150.7             | 4.8             | 5.6         | -130.55               | -142.1                            | 207.8      | 330.2                | 321.4                 | 8.76                   | 37.710            |                           |         |
| 2,300.0  | 2,290.7             | 2,264.0             | 2,247.7             | 5.1             | 5.9         | -130.66               | -151.1                            | 219.0      | 349.9                | 340.7                 | 9.20                   | 38.035            |                           |         |
| 2,400.0  | 2,390.0             | 2,362.0             | 2,344.7             | 5.3             | 6.2         | -130.76               | -160.2                            | 230.2      | 369.7                | 360.0                 | 9.64                   | 38.327            |                           |         |
| 2,500.0  | 2,489.4             | 2,460.1             | 2,441.6             | 5.6             | 6.5         | -130.85               | -169.2                            | 241.5      | 389.4                | 379.3                 | 10.09                  | 38.592            |                           |         |
| 2,600.0  | 2,588.7             | 2,558.1             | 2,538.6             | 5.9             | 6.8         | -130.93               | -178.2                            | 252.7      | 409.1                | 398.6                 | 10.54                  | 38.833            |                           |         |
| 2,700.0  | 2,688.1             | 2,656.1             | 2,635.6             | 6.1             | 7.1         | -131.00               | -187.2                            | 263.9      | 428.9                | 417.9                 | 10.98                  | 39.054            |                           |         |
| 2,800.0  | 2,787.4             | 2,754.1             | 2,732.5             | 6.4             | 7.4         | -131.07               | -196.2                            | 275.2      | 448.6                | 437.2                 | 11.43                  | 39.256            |                           |         |
| 2,900.0  | 2,886.7             | 2,852.2             | 2,829.5             | 6.7             | 7.7         | -131.13               | -205.3                            | 286.4      | 468.4                | 456.5                 | 11.88                  | 39.442            |                           |         |
| 3,000.0  | 2,986.1             | 2,950.2             | 2,926.4             | 6.9             | 8.0         | -131.18               | -214.3                            | 297.6      | 488.1                | 475.8                 | 12.32                  | 39.614            |                           |         |
| 3,100.0  | 3,085.4             | 3,048.2             | 3,023.4             | 7.2             | 8.3         | -131.24               | -223.3                            | 308.9      | 507.9                | 495.1                 | 12.77                  | 39.773            |                           |         |
| 3,200.0  | 3,184.8             | 3,146.3             | 3,120.4             | 7.5             | 8.6         | -131.28               | -232.3                            | 320.1      | 527.6                | 514.4                 | 13.22                  | 39.920            |                           |         |
| 3,300.0  | 3,284.1             | 3,244.3             | 3,217.3             | 7.7             | 8.9         | -131.33               | -241.4                            | 331.3      | 547.4                | 533.7                 | 13.66                  | 40.058            |                           |         |
| 3,400.0  | 3,383.4             | 3,342.3             | 3,314.3             | 8.0             | 9.2         | -131.37               | -250.4                            | 342.6      | 567.1                | 553.0                 | 14.11                  | 40.186            |                           |         |
| 3,500.0  | 3,482.8             | 3,440.4             | 3,411.3             | 8.2             | 9.5         | -131.41               | -259.4                            | 353.8      | 586.9                | 572.3                 | 14.56                  | 40.306            |                           |         |
| 3,600.0  | 3,582.1             | 3,538.4             | 3,508.2             | 8.5             | 9.8         | -131.44               | -268.4                            | 365.1      | 606.6                | 591.6                 | 15.01                  | 40.418            |                           |         |
| 3,700.0  | 3,681.5             | 3,636.4             | 3,605.2             | 8.8             | 10.1        | -131.48               | -277.4                            | 376.3      | 626.4                | 610.9                 | 15.46                  | 40.524            |                           |         |
| 3,800.0  | 3,780.8             | 3,734.4             | 3,702.2             | 9.0             | 10.4        | -131.51               | -286.5                            | 387.5      | 646.1                | 630.2                 | 15.90                  | 40.624            |                           |         |
| 3,900.0  | 3,880.1             | 3,832.5             | 3,799.1             | 9.3             | 10.7        | -131.54               | -295.5                            | 398.8      | 665.9                | 649.5                 | 16.35                  | 40.717            |                           |         |
| 4,000.0  | 3,979.5             | 3,930.5             | 3,896.1             | 9.6             | 11.0        | -131.57               | -304.5                            | 410.0      | 685.6                | 668.8                 | 16.80                  | 40.806            |                           |         |
| 4,100.0  | 4,078.8             | 4,028.5             | 3,993.1             | 9.8             | 11.3        | -131.59               | -313.5                            | 421.2      | 705.4                | 688.1                 | 17.25                  | 40.889            |                           |         |
| 4,200.0  | 4,178.2             | 4,126.6             | 4,090.0             | 10.1            | 11.6        | -131.62               | -322.6                            | 432.5      | 725.1                | 707.4                 | 17.70                  | 40.969            |                           |         |
| 4,300.0  | 4,277.5             | 4,224.6             | 4,187.0             | 10.4            | 12.0        | -131.64               | -331.6                            | 443.7      | 744.9                | 726.7                 | 18.15                  | 41.044            |                           |         |
| 4,400.0  | 4,376.8             | 4,322.6             | 4,284.0             | 10.6            | 12.3        | -131.66               | -340.6                            | 454.9      | 764.6                | 746.0                 | 18.60                  | 41.115            |                           |         |
| 4,500.0  | 4,476.2             | 4,420.7             | 4,380.9             | 10.9            | 12.6        | -131.69               | -349.6                            | 466.2      | 784.4                | 765.3                 | 19.05                  | 41.183            |                           |         |
| 4,600.0  | 4,575.5             | 4,518.7             | 4,477.9             | 11.2            | 12.9        | -131.71               | -358.6                            | 477.4      | 804.1                | 784.6                 | 19.49                  | 41.248            |                           |         |
| 4,700.0  | 4,674.9             | 4,616.7             | 4,574.9             | 11.4            | 13.2        | -131.73               | -367.7                            | 488.7      | 823.9                | 803.9                 | 19.94                  | 41.309            |                           |         |
| 4,800.0  | 4,774.2             | 4,714.7             | 4,671.8             | 11.7            | 13.5        | -131.74               | -376.7                            | 499.9      | 843.6                | 823.2                 | 20.39                  | 41.368            |                           |         |
| 4,900.0  | 4,873.5             | 4,812.8             | 4,768.8             | 12.0            | 13.8        | -131.76               | -385.7                            | 511.1      | 863.4                | 842.5                 | 20.84                  | 41.424            |                           |         |
| 5,000.0  | 4,972.9             | 4,910.8             | 4,865.8             | 12.2            | 14.1        | -131.78               | -394.7                            | 522.4      | 883.1                | 861.8                 | 21.29                  | 41.478            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - File 3P-32H-K268 - Hz - Plan #2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | Warning |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |         |
| 5,100.0  | 5,072.2             | 5,008.8             | 4,962.7             | 12.5            | 14.4        | -131.79               | -403.8                            | 533.6      | 902.9                | 881.1                 | 21.74                  | 41.530            |                           |         |
| 5,200.0  | 5,171.6             | 5,106.9             | 5,059.7             | 12.7            | 14.7        | -131.81               | -412.8                            | 544.8      | 922.6                | 900.4                 | 22.19                  | 41.579            |                           |         |
| 5,300.0  | 5,270.9             | 5,204.9             | 5,156.6             | 13.0            | 15.0        | -131.82               | -421.8                            | 556.1      | 942.4                | 919.7                 | 22.64                  | 41.626            |                           |         |
| 5,400.0  | 5,370.3             | 5,302.9             | 5,253.6             | 13.3            | 15.3        | -131.84               | -430.8                            | 567.3      | 962.1                | 939.0                 | 23.09                  | 41.671            |                           |         |
| 5,500.0  | 5,469.6             | 5,401.0             | 5,350.6             | 13.5            | 15.6        | -131.85               | -439.8                            | 578.5      | 981.9                | 958.3                 | 23.54                  | 41.715            |                           |         |
| 5,600.0  | 5,568.9             | 5,499.0             | 5,447.5             | 13.8            | 15.9        | -131.86               | -448.9                            | 589.8      | 1,001.6              | 977.6                 | 23.99                  | 41.757            |                           |         |
| 5,700.0  | 5,668.3             | 5,597.0             | 5,544.5             | 14.1            | 16.2        | -131.88               | -457.9                            | 601.0      | 1,021.4              | 996.9                 | 24.44                  | 41.797            |                           |         |
| 5,800.0  | 5,767.6             | 5,695.0             | 5,641.5             | 14.3            | 16.5        | -131.89               | -466.9                            | 612.2      | 1,041.1              | 1,016.2               | 24.89                  | 41.836            |                           |         |
| 5,900.0  | 5,867.0             | 5,793.1             | 5,738.4             | 14.6            | 16.8        | -131.90               | -475.9                            | 623.5      | 1,060.9              | 1,035.5               | 25.34                  | 41.873            |                           |         |
| 6,000.0  | 5,966.3             | 5,891.1             | 5,835.4             | 14.9            | 17.1        | -131.91               | -485.0                            | 634.7      | 1,080.6              | 1,054.8               | 25.78                  | 41.909            |                           |         |
| 6,100.0  | 6,065.6             | 5,989.1             | 5,932.4             | 15.1            | 17.4        | -131.92               | -494.0                            | 646.0      | 1,100.4              | 1,074.1               | 26.23                  | 41.944            |                           |         |
| 6,200.0  | 6,165.0             | 6,087.2             | 6,029.3             | 15.4            | 17.7        | -131.93               | -503.0                            | 657.2      | 1,120.1              | 1,093.4               | 26.68                  | 41.977            |                           |         |
| 6,300.0  | 6,264.3             | 6,185.2             | 6,126.3             | 15.7            | 18.1        | -131.94               | -512.0                            | 668.4      | 1,139.9              | 1,112.7               | 27.13                  | 42.010            |                           |         |
| 6,400.0  | 6,363.7             | 6,283.2             | 6,223.3             | 15.9            | 18.4        | -131.95               | -521.0                            | 679.7      | 1,159.6              | 1,132.0               | 27.58                  | 42.041            |                           |         |
| 6,500.0  | 6,463.0             | 6,381.3             | 6,320.2             | 16.2            | 18.7        | -131.96               | -530.1                            | 690.9      | 1,179.4              | 1,151.3               | 28.03                  | 42.071            |                           |         |
| 6,600.0  | 6,562.3             | 6,479.3             | 6,417.2             | 16.5            | 19.0        | -131.97               | -539.1                            | 702.1      | 1,199.1              | 1,170.6               | 28.48                  | 42.101            |                           |         |
| 6,700.0  | 6,661.7             | 6,577.3             | 6,514.2             | 16.7            | 19.3        | -131.98               | -548.1                            | 713.4      | 1,218.9              | 1,189.9               | 28.93                  | 42.129            |                           |         |
| 6,801.1  | 6,762.1             | 6,676.4             | 6,612.2             | 17.0            | 19.6        | -131.99               | -557.2                            | 724.7      | 1,238.8              | 1,209.5               | 29.39                  | 42.157            |                           |         |
| 6,850.0  | 6,810.8             | 6,724.3             | 6,659.5             | 17.1            | 19.7        | 179.49                | -561.6                            | 730.2      | 1,248.7              | 1,219.1               | 29.60                  | 42.191            |                           |         |
| 6,900.0  | 6,860.5             | 6,772.8             | 6,707.5             | 17.2            | 19.9        | 135.05                | -566.1                            | 735.8      | 1,259.0              | 1,229.3               | 29.76                  | 42.303            |                           |         |
| 6,950.0  | 6,909.9             | 6,820.5             | 6,754.7             | 17.2            | 20.0        | 117.57                | -570.5                            | 741.2      | 1,269.7              | 1,239.8               | 29.88                  | 42.488            |                           |         |
| 7,000.0  | 6,958.4             | 6,877.4             | 6,811.1             | 17.2            | 20.2        | 109.73                | -573.6                            | 747.8      | 1,280.5              | 1,250.5               | 29.93                  | 42.782            |                           |         |
| 7,050.0  | 7,005.8             | 6,937.9             | 6,871.2             | 17.1            | 20.3        | 105.31                | -570.6                            | 754.7      | 1,291.1              | 1,261.2               | 29.88                  | 43.206            |                           |         |
| 7,100.0  | 7,051.7             | 7,000.6             | 6,932.6             | 17.1            | 20.3        | 102.43                | -560.9                            | 761.9      | 1,301.5              | 1,271.7               | 29.74                  | 43.759            |                           |         |
| 7,150.0  | 7,095.8             | 7,065.5             | 6,994.8             | 17.0            | 20.3        | 100.35                | -543.8                            | 769.1      | 1,311.4              | 1,281.9               | 29.50                  | 44.453            |                           |         |
| 7,200.0  | 7,137.6             | 7,132.5             | 7,056.5             | 16.9            | 20.2        | 98.75                 | -518.9                            | 776.2      | 1,320.9              | 1,291.7               | 29.18                  | 45.264            |                           |         |
| 7,250.0  | 7,176.9             | 7,201.6             | 7,116.6             | 16.8            | 20.1        | 97.44                 | -485.7                            | 783.2      | 1,329.7              | 1,300.9               | 28.79                  | 46.178            |                           |         |
| 7,300.0  | 7,213.4             | 7,272.4             | 7,173.8             | 16.7            | 19.9        | 96.32                 | -444.4                            | 789.8      | 1,337.7              | 1,309.4               | 28.36                  | 47.175            |                           |         |
| 7,350.0  | 7,246.8             | 7,344.8             | 7,226.4             | 16.6            | 19.8        | 95.33                 | -395.3                            | 795.9      | 1,345.0              | 1,317.1               | 27.90                  | 48.201            |                           |         |
| 7,400.0  | 7,276.9             | 7,418.2             | 7,273.2             | 16.5            | 19.6        | 94.42                 | -339.0                            | 801.3      | 1,351.3              | 1,323.8               | 27.47                  | 49.194            |                           |         |
| 9,600.0  | 7,378.0             | 9,731.1             | 7,383.0             | 39.4            | 40.8        | 90.21                 | 1,950.3                           | 814.0      | 1,347.7              | 1,271.0               | 76.76                  | 17.559            |                           |         |
| 9,700.0  | 7,378.0             | 9,830.7             | 7,383.0             | 41.0            | 42.3        | 90.21                 | 2,049.9                           | 814.0      | 1,338.8              | 1,258.7               | 80.04                  | 16.726            |                           |         |
| 9,800.0  | 7,378.0             | 9,930.3             | 7,383.0             | 42.5            | 43.9        | 90.22                 | 2,149.5                           | 814.0      | 1,329.8              | 1,246.5               | 83.35                  | 15.955            |                           |         |
| 9,900.0  | 7,378.0             | 10,029.9            | 7,383.0             | 44.1            | 45.4        | 90.22                 | 2,249.1                           | 814.0      | 1,320.9              | 1,234.2               | 86.67                  | 15.241            |                           |         |
| 10,000.0   | 7,378.0             | 10,129.5            | 7,383.0             | 45.7            | 47.0        | 90.22                 | 2,348.7                           | 814.0      | 1,311.9              | 1,221.9               | 90.00                  | 14.577            |                           |         |
| 10,100.0   | 7,378.0             | 10,229.1            | 7,383.0             | 47.4            | 48.6        | 90.22                 | 2,448.3                           | 814.0      | 1,303.0              | 1,209.6               | 93.35                  | 13.958            |                           |         |
| 10,200.0   | 7,378.0             | 10,328.7            | 7,383.0             | 49.0            | 50.2        | 90.22                 | 2,547.9                           | 814.0      | 1,294.0              | 1,197.3               | 96.70                  | 13.381            |                           |         |
| 10,300.0   | 7,378.0             | 10,428.3            | 7,383.0             | 50.6            | 51.9        | 90.22                 | 2,647.5                           | 814.0      | 1,285.1              | 1,185.0               | 100.07                 | 12.841            |                           |         |
| 10,400.0   | 7,378.0             | 10,527.9            | 7,383.0             | 52.3            | 53.5        | 90.23                 | 2,747.1                           | 814.0      | 1,276.1              | 1,172.7               | 103.45                 | 12.336            |                           |         |
| 10,500.0   | 7,378.0             | 10,627.5            | 7,383.0             | 53.9            | 55.1        | 90.23                 | 2,846.7                           | 814.0      | 1,267.2              | 1,160.3               | 106.83                 | 11.861            |                           |         |
| 10,600.0   | 7,378.0             | 10,727.1            | 7,383.0             | 55.6            | 56.8        | 90.23                 | 2,946.3                           | 814.0      | 1,258.2              | 1,148.0               | 110.22                 | 11.415            |                           |         |
| 10,700.0   | 7,378.0             | 10,826.7            | 7,383.0             | 57.2            | 58.4        | 90.23                 | 3,045.9                           | 814.0      | 1,249.2              | 1,135.6               | 113.62                 | 10.995            |                           |         |
| 10,761.7   | 7,378.0             | 10,877.1            | 7,383.0             | 58.3            | 59.2        | 90.23                 | 3,096.4                           | 814.0      | 1,243.8              | 1,128.2               | 115.53                 | 10.766 SF         |                           |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURVEYS |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 4876-Geolink MWD   |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                              |                      |                    |        |
| 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 | Warning            |        |
| 0.0  | 0.0                    | 0.0                    | 0.0                    | 0.0               | 0.0            | -91.65                      | -29.1                                   | -1,008.3      | 1,009.1                    |                             |                              |                      |                    |        |
| 100.0  | 100.0                  | 72.0                   | 72.0                   | 0.2               | 0.1            | -91.65                      | -29.1                                   | -1,008.3      | 1,008.7                    | 1,008.4                     | 0.28                         | 3,632.372            |                    |        |
| 200.0  | 200.0                  | 172.0                  | 172.0                  | 0.3               | 0.3            | -91.65                      | -29.1                                   | -1,008.3      | 1,008.7                    | 1,008.1                     | 0.63                         | 1,609.414            |                    |        |
| 300.0  | 300.0                  | 272.0                  | 272.0                  | 0.5               | 0.5            | -91.65                      | -29.1                                   | -1,008.3      | 1,008.7                    | 1,007.8                     | 0.98                         | 1,033.713            |                    |        |
| 400.0  | 400.0                  | 372.0                  | 372.0                  | 0.7               | 0.6            | -91.65                      | -29.1                                   | -1,008.3      | 1,008.7                    | 1,007.4                     | 1.32                         | 761.366              |                    |        |
| 450.0  | 450.0                  | 422.0                  | 422.0                  | 0.8               | 0.7            | -91.65                      | -29.1                                   | -1,008.3      | 1,008.7                    | 1,007.2                     | 1.50                         | 672.744              |                    |        |
| 500.0  | 500.0                  | 472.0                  | 472.0                  | 0.9               | 0.8            | 41.69                       | -29.1                                   | -1,008.3      | 1,008.6                    | 1,006.9                     | 1.67                         | 602.508              |                    |        |
| 600.0  | 600.0                  | 572.0                  | 572.0                  | 1.0               | 1.0            | 41.77                       | -29.1                                   | -1,008.3      | 1,007.3                    | 1,005.2                     | 2.02                         | 497.815              |                    |        |
| 700.0  | 699.9                  | 671.9                  | 671.9                  | 1.2               | 1.2            | 41.92                       | -29.1                                   | -1,008.3      | 1,004.7                    | 1,002.3                     | 2.37                         | 423.132              |                    |        |
| 800.0  | 799.8                  | 771.8                  | 771.8                  | 1.4               | 1.3            | 42.14                       | -29.1                                   | -1,008.3      | 1,000.8                    | 998.0                       | 2.73                         | 366.803              |                    |        |
| 900.0  | 899.5                  | 871.5                  | 871.5                  | 1.6               | 1.5            | 42.45                       | -29.1                                   | -1,008.3      | 995.6                      | 992.5                       | 3.09                         | 322.507              |                    |        |
| 1,000.0  | 999.2                  | 971.2                  | 971.2                  | 1.8               | 1.7            | 42.83                       | -29.1                                   | -1,008.3      | 989.2                      | 985.7                       | 3.45                         | 286.525              |                    |        |
| 1,108.4  | 1,106.9                | 1,078.9                | 1,078.9                | 2.1               | 1.9            | 43.34                       | -29.1                                   | -1,008.3      | 980.8                      | 977.0                       | 3.86                         | 254.227              |                    |        |
| 1,200.0  | 1,197.9                | 1,169.9                | 1,169.9                | 2.3               | 2.0            | 43.76                       | -29.1                                   | -1,008.3      | 973.2                      | 969.0                       | 4.21                         | 231.301              |                    |        |
| 1,300.0  | 1,297.3                | 1,269.3                | 1,269.3                | 2.5               | 2.2            | 44.23                       | -29.1                                   | -1,008.3      | 964.9                      | 960.3                       | 4.59                         | 210.104              |                    |        |
| 1,400.0  | 1,396.6                | 1,368.6                | 1,368.6                | 2.8               | 2.4            | 44.71                       | -29.1                                   | -1,008.3      | 956.7                      | 951.7                       | 4.98                         | 192.064              |                    |        |
| 1,500.0  | 1,496.0                | 1,468.0                | 1,468.0                | 3.0               | 2.6            | 45.20                       | -29.1                                   | -1,008.3      | 948.6                      | 943.2                       | 5.37                         | 176.547              |                    |        |
| 1,600.0  | 1,595.3                | 1,567.3                | 1,567.3                | 3.3               | 2.7            | 45.69                       | -29.1                                   | -1,008.3      | 940.5                      | 934.7                       | 5.77                         | 163.071              |                    |        |
| 1,700.0  | 1,694.7                | 1,666.7                | 1,666.7                | 3.5               | 2.9            | 46.19                       | -29.1                                   | -1,008.3      | 932.5                      | 926.3                       | 6.16                         | 151.269              |                    |        |
| 1,800.0  | 1,794.0                | 1,766.0                | 1,766.0                | 3.8               | 3.1            | 46.70                       | -29.1                                   | -1,008.3      | 924.6                      | 918.0                       | 6.56                         | 140.853              |                    |        |
| 1,900.0  | 1,893.3                | 1,865.3                | 1,865.3                | 4.0               | 3.3            | 47.22                       | -29.1                                   | -1,008.3      | 916.7                      | 909.8                       | 6.97                         | 131.599              |                    |        |
| 2,000.0  | 1,992.7                | 1,964.7                | 1,964.7                | 4.3               | 3.4            | 47.75                       | -29.1                                   | -1,008.3      | 908.9                      | 901.6                       | 7.37                         | 123.327              |                    |        |
| 2,100.0  | 2,092.0                | 2,064.0                | 2,064.0                | 4.6               | 3.6            | 48.29                       | -29.1                                   | -1,008.3      | 901.2                      | 893.5                       | 7.78                         | 115.893              |                    |        |
| 2,200.0  | 2,191.4                | 2,163.4                | 2,163.4                | 4.8               | 3.8            | 48.84                       | -29.1                                   | -1,008.3      | 893.6                      | 885.4                       | 8.19                         | 109.178              |                    |        |
| 2,300.0  | 2,290.7                | 2,262.7                | 2,262.7                | 5.1               | 3.9            | 49.39                       | -29.1                                   | -1,008.3      | 886.1                      | 877.5                       | 8.60                         | 103.086              |                    |        |
| 2,400.0  | 2,390.0                | 2,362.0                | 2,362.0                | 5.3               | 4.1            | 49.96                       | -29.1                                   | -1,008.3      | 878.7                      | 869.6                       | 9.01                         | 97.535               |                    |        |
| 2,500.0  | 2,489.4                | 2,461.4                | 2,461.4                | 5.6               | 4.3            | 50.53                       | -29.1                                   | -1,008.3      | 871.3                      | 861.9                       | 9.42                         | 92.460               |                    |        |
| 2,600.0  | 2,588.7                | 2,560.7                | 2,560.7                | 5.9               | 4.5            | 51.12                       | -29.1                                   | -1,008.3      | 864.0                      | 854.2                       | 9.84                         | 87.804               |                    |        |
| 2,700.0  | 2,688.1                | 2,660.1                | 2,660.1                | 6.1               | 4.6            | 51.71                       | -29.1                                   | -1,008.3      | 856.8                      | 846.6                       | 10.26                        | 83.518               |                    |        |
| 2,800.0  | 2,787.4                | 2,759.4                | 2,759.4                | 6.4               | 4.8            | 52.32                       | -29.1                                   | -1,008.3      | 849.8                      | 839.1                       | 10.68                        | 79.562               |                    |        |
| 2,900.0  | 2,886.7                | 2,858.7                | 2,858.7                | 6.7               | 5.0            | 52.93                       | -29.1                                   | -1,008.3      | 842.8                      | 831.7                       | 11.10                        | 75.900               |                    |        |
| 3,000.0  | 2,986.1                | 2,958.1                | 2,958.1                | 6.9               | 5.2            | 53.56                       | -29.1                                   | -1,008.3      | 835.9                      | 824.3                       | 11.53                        | 72.504               |                    |        |
| 3,100.0  | 3,085.4                | 3,057.4                | 3,057.4                | 7.2               | 5.3            | 54.19                       | -29.1                                   | -1,008.3      | 829.1                      | 817.1                       | 11.96                        | 69.345               |                    |        |
| 3,200.0  | 3,184.8                | 3,156.8                | 3,156.8                | 7.5               | 5.5            | 54.84                       | -29.1                                   | -1,008.3      | 822.4                      | 810.0                       | 12.39                        | 66.402               |                    |        |
| 3,300.0  | 3,284.1                | 3,256.1                | 3,256.1                | 7.7               | 5.7            | 55.49                       | -29.1                                   | -1,008.3      | 815.8                      | 803.0                       | 12.82                        | 63.654               |                    |        |
| 3,400.0  | 3,383.4                | 3,355.4                | 3,355.4                | 8.0               | 5.9            | 56.16                       | -29.1                                   | -1,008.3      | 809.4                      | 796.1                       | 13.25                        | 61.085               |                    |        |
| 3,500.0  | 3,482.8                | 3,454.8                | 3,454.8                | 8.2               | 6.0            | 56.83                       | -29.1                                   | -1,008.3      | 803.0                      | 789.3                       | 13.68                        | 58.677               |                    |        |
| 3,600.0  | 3,582.1                | 3,554.1                | 3,554.1                | 8.5               | 6.2            | 57.52                       | -29.1                                   | -1,008.3      | 796.8                      | 782.6                       | 14.12                        | 56.419               |                    |        |
| 3,700.0  | 3,681.5                | 3,653.5                | 3,653.5                | 8.8               | 6.4            | 58.22                       | -29.1                                   | -1,008.3      | 790.6                      | 776.1                       | 14.56                        | 54.297               |                    |        |
| 3,800.0  | 3,780.8                | 3,752.8                | 3,752.8                | 9.0               | 6.5            | 58.93                       | -29.1                                   | -1,008.3      | 784.6                      | 769.6                       | 15.00                        | 52.300               |                    |        |
| 3,900.0  | 3,880.1                | 3,852.1                | 3,852.1                | 9.3               | 6.7            | 59.64                       | -29.1                                   | -1,008.3      | 778.7                      | 763.3                       | 15.45                        | 50.420               |                    |        |
| 4,000.0  | 3,979.5                | 3,951.5                | 3,951.5                | 9.6               | 6.9            | 60.37                       | -29.1                                   | -1,008.3      | 773.0                      | 757.1                       | 15.89                        | 48.646               |                    |        |
| 4,100.0  | 4,078.8                | 4,050.8                | 4,050.8                | 9.8               | 7.1            | 61.11                       | -29.1                                   | -1,008.3      | 767.3                      | 751.0                       | 16.34                        | 46.972               |                    |        |
| 4,200.0  | 4,178.2                | 4,150.2                | 4,150.2                | 10.1              | 7.2            | 61.87                       | -29.1                                   | -1,008.3      | 761.8                      | 745.1                       | 16.78                        | 45.390               |                    |        |
| 4,300.0  | 4,277.5                | 4,249.5                | 4,249.5                | 10.4              | 7.4            | 62.63                       | -29.1                                   | -1,008.3      | 756.5                      | 739.2                       | 17.23                        | 43.894               |                    |        |
| 4,400.0  | 4,376.8                | 4,348.8                | 4,348.8                | 10.6              | 7.6            | 63.40                       | -29.1                                   | -1,008.3      | 751.2                      | 733.6                       | 17.69                        | 42.478               |                    |        |
| 4,500.0  | 4,476.2                | 4,448.2                | 4,448.2                | 10.9              | 7.8            | 64.18                       | -29.1                                   | -1,008.3      | 746.2                      | 728.0                       | 18.14                        | 41.137               |                    |        |
| 4,600.0  | 4,575.5                | 4,547.5                | 4,547.5                | 11.2              | 7.9            | 64.98                       | -29.1                                   | -1,008.3      | 741.2                      | 722.6                       | 18.59                        | 39.865               |                    |        |
| 4,700.0  | 4,674.9                | 4,646.9                | 4,646.9                | 11.4              | 8.1            | 65.78                       | -29.1                                   | -1,008.3      | 736.4                      | 717.4                       | 19.05                        | 38.659               |                    |        |
| 4,800.0  | 4,774.2                | 4,746.2                | 4,746.2                | 11.7              | 8.3            | 66.59                       | -29.1                                   | -1,008.3      | 731.7                      | 712.2                       | 19.51                        | 37.515               |                    |        |
| 4,900.0  | 4,873.5                | 4,845.5                | 4,845.5                | 12.0              | 8.5            | 67.42                       | -29.1                                   | -1,008.3      | 727.2                      | 707.3                       | 19.96                        | 36.428               |                    |        |
| 4,962.5  | 4,935.6                | 4,876.0                | 4,876.0                | 12.1              | 8.5            | 67.67                       | -29.1                                   | -1,008.3      | 725.2                      | 705.0                       | 20.19                        | 35.927 CC, ES        |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 4876-Geolink MWD   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                    | Warning |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |         |
| 5,000.0  | 4,972.9             | 4,876.0             | 4,876.0             | 12.2            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 726.2                | 705.9                 | 20.28                  | 35.806 SF         |                    |         |
| 5,100.0  | 5,072.2             | 4,876.0             | 4,876.0             | 12.5            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 738.1                | 717.6                 | 20.53                  | 35.945            |                    |         |
| 5,200.0  | 5,171.6             | 4,876.0             | 4,876.0             | 12.7            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 763.1                | 742.3                 | 20.79                  | 36.708            |                    |         |
| 5,300.0  | 5,270.9             | 4,876.0             | 4,876.0             | 13.0            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 799.9                | 778.9                 | 21.04                  | 38.013            |                    |         |
| 5,400.0  | 5,370.3             | 4,876.0             | 4,876.0             | 13.3            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 847.0                | 825.7                 | 21.30                  | 39.769            |                    |         |
| 5,500.0  | 5,469.6             | 4,876.0             | 4,876.0             | 13.5            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 902.7                | 881.2                 | 21.55                  | 41.886            |                    |         |
| 5,600.0  | 5,568.9             | 4,876.0             | 4,876.0             | 13.8            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 965.6                | 943.8                 | 21.81                  | 44.282            |                    |         |
| 5,700.0  | 5,668.3             | 4,876.0             | 4,876.0             | 14.1            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 1,034.4              | 1,012.3               | 22.06                  | 46.888            |                    |         |
| 5,800.0  | 5,767.6             | 4,876.0             | 4,876.0             | 14.3            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 1,107.9              | 1,085.6               | 22.31                  | 49.648            |                    |         |
| 5,900.0  | 5,867.0             | 4,876.0             | 4,876.0             | 14.6            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 1,185.3              | 1,162.7               | 22.57                  | 52.519            |                    |         |
| 6,000.0  | 5,966.3             | 4,876.0             | 4,876.0             | 14.9            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 1,265.9              | 1,243.0               | 22.82                  | 55.464            |                    |         |
| 6,100.0  | 6,065.6             | 4,876.0             | 4,876.0             | 15.1            | 8.5         | 67.67                 | -29.1                             | -1,008.3   | 1,349.0              | 1,326.0               | 23.08                  | 58.457            |                    |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |         | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 5050-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                 | 28.0                | 28.0                | 0.0             | 0.0         | 163.28                | -1,041.1                          | 312.8      | 1,087.1              |                       |                        |                   |         |                    |        |
| 100.0  | 100.0               | 128.0               | 128.0               | 0.2             | 0.2         | 163.28                | -1,041.1                          | 312.8      | 1,087.1              | 1,086.7               | 0.38                   | 2,895.456         |         |                    |        |
| 200.0  | 200.0               | 228.0               | 228.0               | 0.3             | 0.4         | 163.28                | -1,041.1                          | 312.8      | 1,087.1              | 1,086.3               | 0.72                   | 1,500.440         |         |                    |        |
| 300.0  | 300.0               | 328.0               | 328.0               | 0.5             | 0.6         | 163.28                | -1,041.1                          | 312.8      | 1,087.1              | 1,086.0               | 1.07                   | 1,012.582         |         |                    |        |
| 400.0  | 400.0               | 428.0               | 428.0               | 0.7             | 0.7         | 163.28                | -1,041.1                          | 312.8      | 1,087.1              | 1,085.7               | 1.42                   | 764.131           |         |                    |        |
| 450.0  | 450.0               | 478.0               | 478.0               | 0.8             | 0.8         | 163.28                | -1,041.1                          | 312.8      | 1,087.1              | 1,085.5               | 1.60                   | 680.630           |         |                    |        |
| 500.0  | 500.0               | 528.0               | 528.0               | 0.9             | 0.9         | -63.40                | -1,041.1                          | 312.8      | 1,087.0              | 1,085.2               | 1.77                   | 613.519           |         |                    |        |
| 600.0  | 600.0               | 628.0               | 628.0               | 1.0             | 1.1         | -63.49                | -1,041.1                          | 312.8      | 1,086.2              | 1,084.1               | 2.12                   | 511.935           |         |                    |        |
| 700.0  | 699.9               | 727.9               | 727.9               | 1.2             | 1.3         | -63.66                | -1,041.1                          | 312.8      | 1,084.6              | 1,082.2               | 2.48                   | 438.237           |         |                    |        |
| 800.0  | 799.8               | 827.8               | 827.8               | 1.4             | 1.4         | -63.93                | -1,041.1                          | 312.8      | 1,082.3              | 1,079.5               | 2.83                   | 381.878           |         |                    |        |
| 900.0  | 899.5               | 927.5               | 927.5               | 1.6             | 1.6         | -64.29                | -1,041.1                          | 312.8      | 1,079.3              | 1,076.1               | 3.20                   | 337.034           |         |                    |        |
| 1,000.0  | 999.2               | 1,027.2             | 1,027.2             | 1.8             | 1.8         | -64.74                | -1,041.1                          | 312.8      | 1,075.5              | 1,071.9               | 3.58                   | 300.242           |         |                    |        |
| 1,108.4  | 1,106.9             | 1,134.9             | 1,134.9             | 2.1             | 2.0         | -65.34                | -1,041.1                          | 312.8      | 1,070.7              | 1,066.7               | 4.01                   | 266.939           |         |                    |        |
| 1,200.0  | 1,197.9             | 1,225.9             | 1,225.9             | 2.3             | 2.1         | -65.85                | -1,041.1                          | 312.8      | 1,066.3              | 1,061.9               | 4.38                   | 243.407           |         |                    |        |
| 1,300.0  | 1,297.3             | 1,325.3             | 1,325.3             | 2.5             | 2.3         | -66.41                | -1,041.1                          | 312.8      | 1,061.6              | 1,056.9               | 4.79                   | 221.654           |         |                    |        |
| 1,400.0  | 1,396.6             | 1,424.6             | 1,424.6             | 2.8             | 2.5         | -66.97                | -1,041.1                          | 312.8      | 1,057.1              | 1,051.9               | 5.20                   | 203.168           |         |                    |        |
| 1,500.0  | 1,496.0             | 1,524.0             | 1,524.0             | 3.0             | 2.7         | -67.55                | -1,041.1                          | 312.8      | 1,052.6              | 1,047.0               | 5.62                   | 187.300           |         |                    |        |
| 1,600.0  | 1,595.3             | 1,623.3             | 1,623.3             | 3.3             | 2.8         | -68.12                | -1,041.1                          | 312.8      | 1,048.3              | 1,042.2               | 6.04                   | 173.553           |         |                    |        |
| 1,700.0  | 1,694.7             | 1,722.7             | 1,722.7             | 3.5             | 3.0         | -68.70                | -1,041.1                          | 312.8      | 1,044.0              | 1,037.6               | 6.46                   | 161.545           |         |                    |        |
| 1,800.0  | 1,794.0             | 1,822.0             | 1,822.0             | 3.8             | 3.2         | -69.29                | -1,041.1                          | 312.8      | 1,039.9              | 1,033.0               | 6.89                   | 150.977           |         |                    |        |
| 1,900.0  | 1,893.3             | 1,921.3             | 1,921.3             | 4.0             | 3.4         | -69.88                | -1,041.1                          | 312.8      | 1,035.9              | 1,028.6               | 7.31                   | 141.613           |         |                    |        |
| 2,000.0  | 1,992.7             | 2,020.7             | 2,020.7             | 4.3             | 3.5         | -70.47                | -1,041.1                          | 312.8      | 1,032.0              | 1,024.2               | 7.74                   | 133.265           |         |                    |        |
| 2,100.0  | 2,092.0             | 2,120.0             | 2,120.0             | 4.6             | 3.7         | -71.07                | -1,041.1                          | 312.8      | 1,028.2              | 1,020.0               | 8.17                   | 125.782           |         |                    |        |
| 2,200.0  | 2,191.4             | 2,219.4             | 2,219.4             | 4.8             | 3.9         | -71.67                | -1,041.1                          | 312.8      | 1,024.5              | 1,015.9               | 8.61                   | 119.040           |         |                    |        |
| 2,300.0  | 2,290.7             | 2,318.7             | 2,318.7             | 5.1             | 4.0         | -72.28                | -1,041.1                          | 312.8      | 1,020.9              | 1,011.9               | 9.04                   | 112.938           |         |                    |        |
| 2,400.0  | 2,390.0             | 2,418.0             | 2,418.0             | 5.3             | 4.2         | -72.89                | -1,041.1                          | 312.8      | 1,017.5              | 1,008.0               | 9.47                   | 107.393           |         |                    |        |
| 2,500.0  | 2,489.4             | 2,517.4             | 2,517.4             | 5.6             | 4.4         | -73.51                | -1,041.1                          | 312.8      | 1,014.1              | 1,004.2               | 9.91                   | 102.334           |         |                    |        |
| 2,600.0  | 2,588.7             | 2,616.7             | 2,616.7             | 5.9             | 4.6         | -74.13                | -1,041.1                          | 312.8      | 1,010.9              | 1,000.6               | 10.35                  | 97.703            |         |                    |        |
| 2,700.0  | 2,688.1             | 2,716.1             | 2,716.1             | 6.1             | 4.7         | -74.75                | -1,041.1                          | 312.8      | 1,007.8              | 997.0                 | 10.78                  | 93.450            |         |                    |        |
| 2,800.0  | 2,787.4             | 2,815.4             | 2,815.4             | 6.4             | 4.9         | -75.38                | -1,041.1                          | 312.8      | 1,004.8              | 993.6                 | 11.22                  | 89.532            |         |                    |        |
| 2,900.0  | 2,886.7             | 2,914.7             | 2,914.7             | 6.7             | 5.1         | -76.01                | -1,041.1                          | 312.8      | 1,002.0              | 990.3                 | 11.66                  | 85.914            |         |                    |        |
| 3,000.0  | 2,986.1             | 3,014.1             | 3,014.1             | 6.9             | 5.3         | -76.64                | -1,041.1                          | 312.8      | 999.3                | 987.2                 | 12.10                  | 82.564            |         |                    |        |
| 3,100.0  | 3,085.4             | 3,113.4             | 3,113.4             | 7.2             | 5.4         | -77.28                | -1,041.1                          | 312.8      | 996.7                | 984.1                 | 12.54                  | 79.454            |         |                    |        |
| 3,200.0  | 3,184.8             | 3,212.8             | 3,212.8             | 7.5             | 5.6         | -77.92                | -1,041.1                          | 312.8      | 994.2                | 981.2                 | 12.99                  | 76.563            |         |                    |        |
| 3,300.0  | 3,284.1             | 3,312.1             | 3,312.1             | 7.7             | 5.8         | -78.56                | -1,041.1                          | 312.8      | 991.8                | 978.4                 | 13.43                  | 73.868            |         |                    |        |
| 3,400.0  | 3,383.4             | 3,411.4             | 3,411.4             | 8.0             | 6.0         | -79.21                | -1,041.1                          | 312.8      | 989.6                | 975.7                 | 13.87                  | 71.351            |         |                    |        |
| 3,500.0  | 3,482.8             | 3,510.8             | 3,510.8             | 8.2             | 6.1         | -79.86                | -1,041.1                          | 312.8      | 987.5                | 973.2                 | 14.31                  | 68.998            |         |                    |        |
| 3,600.0  | 3,582.1             | 3,610.1             | 3,610.1             | 8.5             | 6.3         | -80.51                | -1,041.1                          | 312.8      | 985.5                | 970.8                 | 14.76                  | 66.793            |         |                    |        |
| 3,700.0  | 3,681.5             | 3,709.5             | 3,709.5             | 8.8             | 6.5         | -81.16                | -1,041.1                          | 312.8      | 983.7                | 968.5                 | 15.20                  | 64.725            |         |                    |        |
| 3,800.0  | 3,780.8             | 3,808.8             | 3,808.8             | 9.0             | 6.6         | -81.82                | -1,041.1                          | 312.8      | 982.0                | 966.4                 | 15.64                  | 62.781            |         |                    |        |
| 3,900.0  | 3,880.1             | 3,908.1             | 3,908.1             | 9.3             | 6.8         | -82.48                | -1,041.1                          | 312.8      | 980.4                | 964.3                 | 16.08                  | 60.953            |         |                    |        |
| 4,000.0  | 3,979.5             | 4,007.5             | 4,007.5             | 9.6             | 7.0         | -83.14                | -1,041.1                          | 312.8      | 979.0                | 962.5                 | 16.53                  | 59.231            |         |                    |        |
| 4,100.0  | 4,078.8             | 4,106.8             | 4,106.8             | 9.8             | 7.2         | -83.80                | -1,041.1                          | 312.8      | 977.7                | 960.7                 | 16.97                  | 57.606            |         |                    |        |
| 4,200.0  | 4,178.2             | 4,206.2             | 4,206.2             | 10.1            | 7.3         | -84.47                | -1,041.1                          | 312.8      | 976.5                | 959.1                 | 17.41                  | 56.073            |         |                    |        |
| 4,300.0  | 4,277.5             | 4,305.5             | 4,305.5             | 10.4            | 7.5         | -85.13                | -1,041.1                          | 312.8      | 975.4                | 957.6                 | 17.86                  | 54.624            |         |                    |        |
| 4,400.0  | 4,376.8             | 4,404.8             | 4,404.8             | 10.6            | 7.7         | -85.80                | -1,041.1                          | 312.8      | 974.5                | 956.2                 | 18.30                  | 53.253            |         |                    |        |
| 4,500.0  | 4,476.2             | 4,504.2             | 4,504.2             | 10.9            | 7.9         | -86.47                | -1,041.1                          | 312.8      | 973.8                | 955.0                 | 18.74                  | 51.955            |         |                    |        |
| 4,600.0  | 4,575.5             | 4,603.5             | 4,603.5             | 11.2            | 8.0         | -87.14                | -1,041.1                          | 312.8      | 973.1                | 953.9                 | 19.18                  | 50.725            |         |                    |        |
| 4,700.0  | 4,674.9             | 4,702.9             | 4,702.9             | 11.4            | 8.2         | -87.81                | -1,041.1                          | 312.8      | 972.6                | 953.0                 | 19.63                  | 49.559            |         |                    |        |
| 4,800.0  | 4,774.2             | 4,802.2             | 4,802.2             | 11.7            | 8.4         | -88.48                | -1,041.1                          | 312.8      | 972.2                | 952.2                 | 20.07                  | 48.452            |         |                    |        |
| 4,900.0  | 4,873.5             | 4,901.5             | 4,901.5             | 12.0            | 8.6         | -89.15                | -1,041.1                          | 312.8      | 972.0                | 951.5                 | 20.51                  | 47.401            |         |                    |        |
| 5,000.0  | 4,972.9             | 5,000.9             | 5,000.9             | 12.2            | 8.7         | -89.82                | -1,041.1                          | 312.8      | 971.9                | 950.9                 | 20.94                  | 46.402            |         |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design       |                     |                     |                     |                 |             |                       |  |  |                      |                       |                        |                   | S32-T2N-R68W (File/Hwy 52) - NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURVEYS |         | Offset Site Error: |  | 0.0 ft |  |
|---------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|--|--|----------------------|-----------------------|------------------------|-------------------|--|---------|--------------------|--|--------|--|
| Survey Program:     |                     |                     |                     |                 |             |                       |  |  |                      |                       |                        |                   | 5050-Geolink MWD   |         | Offset Well Error: |  | 0.0 ft |  |
| Reference           |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                                     |  |                      |                       |                        |                   |  | Warning |                    |  |        |  |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) +E/-W (ft) |  | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |  |         |                    |  |        |  |
| 5,026.7             | 4,999.4             | 5,027.4             | 5,027.4             | 12.3            | 8.8         | -90.00                | -1,041.1 312.8                               |  | 971.9                | 950.8                 | 21.06                  | 46.144            | CC, ES   |         |                    |  |        |  |
| 5,100.0             | 5,072.2             | 5,050.0             | 5,050.0             | 12.5            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 973.2                | 951.9                 | 21.30                  | 45.700            |  |         |                    |  |        |  |
| 5,200.0             | 5,171.6             | 5,050.0             | 5,050.0             | 12.7            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 983.5                | 962.0                 | 21.56                  | 45.615            | SF   |         |                    |  |        |  |
| 5,300.0             | 5,270.9             | 5,050.0             | 5,050.0             | 13.0            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 1,003.7              | 981.9                 | 21.83                  | 45.987            |  |         |                    |  |        |  |
| 5,400.0             | 5,370.3             | 5,050.0             | 5,050.0             | 13.3            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 1,033.3              | 1,011.2               | 22.09                  | 46.772            |  |         |                    |  |        |  |
| 5,500.0             | 5,469.6             | 5,050.0             | 5,050.0             | 13.5            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 1,071.4              | 1,049.0               | 22.36                  | 47.921            |  |         |                    |  |        |  |
| 5,600.0             | 5,568.9             | 5,050.0             | 5,050.0             | 13.8            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 1,117.1              | 1,094.5               | 22.62                  | 49.382            |  |         |                    |  |        |  |
| 5,700.0             | 5,668.3             | 5,050.0             | 5,050.0             | 14.1            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 1,169.7              | 1,146.8               | 22.89                  | 51.105            |  |         |                    |  |        |  |
| 5,800.0             | 5,767.6             | 5,050.0             | 5,050.0             | 14.3            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 1,228.2              | 1,205.0               | 23.15                  | 53.044            |  |         |                    |  |        |  |
| 5,900.0             | 5,867.0             | 5,050.0             | 5,050.0             | 14.6            | 8.8         | -90.15                | -1,041.1 312.8                               |  | 1,291.7              | 1,268.3               | 23.42                  | 55.157            |  |         |                    |  |        |  |



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |                   |         | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-------------------|---------|--------------------|--------|
| Survey Program: 4996-MWD   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                  |                   |         | Offset Well Error: | 0.0 ft |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       | Total            |                   | Warning |                    |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Separation Factor |         |                    |        |
| 0.0  | 0.0                 | 0.0                 | 0.0                 | 0.0             | 0.0         | 56.67                 | 182.1                             | 277.0      | 331.5                |                       |                  |                   |         |                    |        |
| 100.0  | 100.0               | 99.0                | 99.0                | 0.2             | 0.2         | 56.67                 | 182.1                             | 277.0      | 331.5                | 331.2                 | 0.32             | 1,022.468         |         |                    |        |
| 200.0  | 200.0               | 199.0               | 199.0               | 0.3             | 0.3         | 56.67                 | 182.1                             | 277.0      | 331.5                | 330.8                 | 0.67             | 492.672           |         |                    |        |
| 300.0  | 300.0               | 299.0               | 299.0               | 0.5             | 0.5         | 56.67                 | 182.1                             | 277.0      | 331.5                | 330.5                 | 1.02             | 324.521           |         |                    |        |
| 400.0  | 400.0               | 399.0               | 399.0               | 0.7             | 0.7         | 56.67                 | 182.1                             | 277.0      | 331.5                | 330.1                 | 1.37             | 241.944           |         |                    |        |
| 450.0  | 450.0               | 449.0               | 449.0               | 0.8             | 0.8         | 56.67                 | 182.1                             | 277.0      | 331.5                | 330.0                 | 1.54             | 214.636           | CC, ES  |                    |        |
| 500.0  | 500.0               | 499.0               | 499.0               | 0.9             | 0.9         | -170.00               | 182.1                             | 277.0      | 331.7                | 330.0                 | 1.72             | 192.997           |         |                    |        |
| 600.0  | 600.0               | 599.0               | 599.0               | 1.0             | 1.0         | -170.05               | 182.1                             | 277.0      | 333.4                | 331.4                 | 2.07             | 161.310           |         |                    |        |
| 700.0  | 699.9               | 698.9               | 698.9               | 1.2             | 1.2         | -170.14               | 182.1                             | 277.0      | 336.9                | 334.5                 | 2.41             | 139.498           |         |                    |        |
| 800.0  | 799.8               | 798.8               | 798.8               | 1.4             | 1.4         | -170.29               | 182.1                             | 277.0      | 342.0                | 339.3                 | 2.76             | 123.825           |         |                    |        |
| 900.0  | 899.5               | 898.5               | 898.5               | 1.6             | 1.6         | -170.47               | 182.1                             | 277.0      | 348.9                | 345.8                 | 3.11             | 112.228           |         |                    |        |
| 1,000.0  | 999.2               | 998.2               | 998.2               | 1.8             | 1.7         | -170.68               | 182.1                             | 277.0      | 357.5                | 354.1                 | 3.45             | 103.478           |         |                    |        |
| 1,108.4  | 1,106.9             | 1,105.9             | 1,105.9             | 2.1             | 1.9         | -170.95               | 182.1                             | 277.0      | 368.8                | 364.9                 | 3.83             | 96.314            |         |                    |        |
| 1,200.0  | 1,197.9             | 1,196.9             | 1,196.9             | 2.3             | 2.1         | -171.20               | 182.1                             | 277.0      | 379.1                | 375.0                 | 4.15             | 91.398            |         |                    |        |
| 1,300.0  | 1,297.3             | 1,296.3             | 1,296.3             | 2.5             | 2.3         | -171.46               | 182.1                             | 277.0      | 390.5                | 386.0                 | 4.50             | 86.833            |         |                    |        |
| 1,400.0  | 1,396.6             | 1,395.6             | 1,395.6             | 2.8             | 2.4         | -171.70               | 182.1                             | 277.0      | 401.8                | 397.0                 | 4.85             | 82.928            |         |                    |        |
| 1,500.0  | 1,496.0             | 1,495.0             | 1,495.0             | 3.0             | 2.6         | -171.93               | 182.1                             | 277.0      | 413.2                | 408.0                 | 5.19             | 79.550            |         |                    |        |
| 1,600.0  | 1,595.3             | 1,594.3             | 1,594.3             | 3.3             | 2.8         | -172.15               | 182.1                             | 277.0      | 424.5                | 419.0                 | 5.54             | 76.599            |         |                    |        |
| 1,700.0  | 1,694.7             | 1,693.7             | 1,693.7             | 3.5             | 2.9         | -172.36               | 182.1                             | 277.0      | 435.9                | 430.0                 | 5.89             | 73.999            |         |                    |        |
| 1,800.0  | 1,794.0             | 1,793.0             | 1,793.0             | 3.8             | 3.1         | -172.55               | 182.1                             | 277.0      | 447.3                | 441.0                 | 6.24             | 71.691            |         |                    |        |
| 1,900.0  | 1,893.3             | 1,892.3             | 1,892.3             | 4.0             | 3.3         | -172.74               | 182.1                             | 277.0      | 458.6                | 452.0                 | 6.59             | 69.629            |         |                    |        |
| 2,000.0  | 1,992.7             | 1,991.7             | 1,991.7             | 4.3             | 3.5         | -172.91               | 182.1                             | 277.0      | 470.0                | 463.1                 | 6.93             | 67.776            |         |                    |        |
| 2,100.0  | 2,092.0             | 2,091.0             | 2,091.0             | 4.6             | 3.6         | -173.08               | 182.1                             | 277.0      | 481.4                | 474.1                 | 7.28             | 66.101            |         |                    |        |
| 2,200.0  | 2,191.4             | 2,190.4             | 2,190.4             | 4.8             | 3.8         | -173.24               | 182.1                             | 277.0      | 492.8                | 485.1                 | 7.63             | 64.580            |         |                    |        |
| 2,300.0  | 2,290.7             | 2,289.7             | 2,289.7             | 5.1             | 4.0         | -173.40               | 182.1                             | 277.0      | 504.2                | 496.2                 | 7.98             | 63.193            |         |                    |        |
| 2,400.0  | 2,390.0             | 2,389.0             | 2,389.0             | 5.3             | 4.2         | -173.54               | 182.1                             | 277.0      | 515.6                | 507.2                 | 8.33             | 61.922            |         |                    |        |
| 2,500.0  | 2,489.4             | 2,488.4             | 2,488.4             | 5.6             | 4.3         | -173.68               | 182.1                             | 277.0      | 527.0                | 518.3                 | 8.67             | 60.754            |         |                    |        |
| 2,600.0  | 2,588.7             | 2,587.7             | 2,587.7             | 5.9             | 4.5         | -173.82               | 182.1                             | 277.0      | 538.4                | 529.3                 | 9.02             | 59.677            |         |                    |        |
| 2,700.0  | 2,688.1             | 2,687.1             | 2,687.1             | 6.1             | 4.7         | -173.95               | 182.1                             | 277.0      | 549.8                | 540.4                 | 9.37             | 58.680            |         |                    |        |
| 2,800.0  | 2,787.4             | 2,786.4             | 2,786.4             | 6.4             | 4.9         | -174.07               | 182.1                             | 277.0      | 561.2                | 551.4                 | 9.72             | 57.755            |         |                    |        |
| 2,900.0  | 2,886.7             | 2,885.7             | 2,885.7             | 6.7             | 5.0         | -174.19               | 182.1                             | 277.0      | 572.6                | 562.5                 | 10.06            | 56.895            |         |                    |        |
| 3,000.0  | 2,986.1             | 2,985.1             | 2,985.1             | 6.9             | 5.2         | -174.30               | 182.1                             | 277.0      | 584.0                | 573.6                 | 10.41            | 56.092            |         |                    |        |
| 3,100.0  | 3,085.4             | 3,084.4             | 3,084.4             | 7.2             | 5.4         | -174.41               | 182.1                             | 277.0      | 595.4                | 584.6                 | 10.76            | 55.342            |         |                    |        |
| 3,200.0  | 3,184.8             | 3,183.8             | 3,183.8             | 7.5             | 5.5         | -174.52               | 182.1                             | 277.0      | 606.8                | 595.7                 | 11.11            | 54.639            |         |                    |        |
| 3,300.0  | 3,284.1             | 3,283.1             | 3,283.1             | 7.7             | 5.7         | -174.62               | 182.1                             | 277.0      | 618.2                | 606.8                 | 11.45            | 53.979            |         |                    |        |
| 3,400.0  | 3,383.4             | 3,382.4             | 3,382.4             | 8.0             | 5.9         | -174.72               | 182.1                             | 277.0      | 629.6                | 617.8                 | 11.80            | 53.358            |         |                    |        |
| 3,500.0  | 3,482.8             | 3,481.8             | 3,481.8             | 8.2             | 6.1         | -174.81               | 182.1                             | 277.0      | 641.0                | 628.9                 | 12.15            | 52.772            |         |                    |        |
| 3,600.0  | 3,582.1             | 3,581.1             | 3,581.1             | 8.5             | 6.2         | -174.90               | 182.1                             | 277.0      | 652.5                | 640.0                 | 12.49            | 52.220            |         |                    |        |
| 3,700.0  | 3,681.5             | 3,680.5             | 3,680.5             | 8.8             | 6.4         | -174.99               | 182.1                             | 277.0      | 663.9                | 651.0                 | 12.84            | 51.698            |         |                    |        |
| 3,800.0  | 3,780.8             | 3,779.8             | 3,779.8             | 9.0             | 6.6         | -175.07               | 182.1                             | 277.0      | 675.3                | 662.1                 | 13.19            | 51.203            |         |                    |        |
| 3,900.0  | 3,880.1             | 3,879.1             | 3,879.1             | 9.3             | 6.8         | -175.16               | 182.1                             | 277.0      | 686.7                | 673.2                 | 13.54            | 50.734            |         |                    |        |
| 4,000.0  | 3,979.5             | 3,978.5             | 3,978.5             | 9.6             | 6.9         | -175.24               | 182.1                             | 277.0      | 698.2                | 684.3                 | 13.88            | 50.288            |         |                    |        |
| 4,100.0  | 4,078.8             | 4,077.8             | 4,077.8             | 9.8             | 7.1         | -175.31               | 182.1                             | 277.0      | 709.6                | 695.3                 | 14.23            | 49.865            |         |                    |        |
| 4,200.0  | 4,178.2             | 4,177.2             | 4,177.2             | 10.1            | 7.3         | -175.39               | 182.1                             | 277.0      | 721.0                | 706.4                 | 14.58            | 49.461            |         |                    |        |
| 4,300.0  | 4,277.5             | 4,276.5             | 4,276.5             | 10.4            | 7.4         | -175.46               | 182.1                             | 277.0      | 732.4                | 717.5                 | 14.92            | 49.077            |         |                    |        |
| 4,400.0  | 4,376.8             | 4,375.8             | 4,375.8             | 10.6            | 7.6         | -175.53               | 182.1                             | 277.0      | 743.9                | 728.6                 | 15.27            | 48.710            |         |                    |        |
| 4,500.0  | 4,476.2             | 4,475.2             | 4,475.2             | 10.9            | 7.8         | -175.60               | 182.1                             | 277.0      | 755.3                | 739.7                 | 15.62            | 48.359            |         |                    |        |
| 4,600.0  | 4,575.5             | 4,574.5             | 4,574.5             | 11.2            | 8.0         | -175.66               | 182.1                             | 277.0      | 766.7                | 750.8                 | 15.97            | 48.024            |         |                    |        |
| 4,700.0  | 4,674.9             | 4,673.9             | 4,673.9             | 11.4            | 8.1         | -175.73               | 182.1                             | 277.0      | 778.2                | 761.9                 | 16.31            | 47.704            |         |                    |        |
| 4,800.0  | 4,774.2             | 4,773.2             | 4,773.2             | 11.7            | 8.3         | -175.79               | 182.1                             | 277.0      | 789.6                | 772.9                 | 16.66            | 47.396            |         |                    |        |
| 4,900.0  | 4,873.5             | 4,872.5             | 4,872.5             | 12.0            | 8.5         | -175.85               | 182.1                             | 277.0      | 801.0                | 784.0                 | 17.01            | 47.101            |         |                    |        |
| 5,000.0  | 4,972.9             | 4,971.9             | 4,971.9             | 12.2            | 8.7         | -175.91               | 182.1                             | 277.0      | 812.5                | 795.1                 | 17.35            | 46.819            | SF      |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design   |                |                |                |                 |        |                   |                        |            |                 |                  |                   |            | S32-T2N-R68W (File/Hwy 52) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS |         | Offset Site Error: |  | 0.0 ft |  |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|-------------------|------------|--|---------|--------------------|--|--------|--|
| Survey Program: |                |                |                |                 |        |                   |                        |            |                 |                  |                   |            | 4996-MWD   |         | Offset Well Error: |  | 0.0 ft |  |
| Reference       |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                   |            |  | Warning |                    |  |        |  |
| Measured Depth  | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Total Uncertainty | Separation |  |         |                    |  |        |  |
| (ft)            | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | Axis              | Factor     |  |         |                    |  |        |  |
| 5,100.0         | 5,072.2        | 4,996.0        | 4,996.0        | 12.5            | 8.7    | -175.92           | 182.1                  | 277.0      | 827.3           | 809.8            | 17.57             | 47.086     |  |         |                    |  |        |  |
| 5,200.0         | 5,171.6        | 4,996.0        | 4,996.0        | 12.7            | 8.7    | -175.92           | 182.1                  | 277.0      | 853.4           | 835.6            | 17.75             | 48.089     |  |         |                    |  |        |  |
| 5,300.0         | 5,270.9        | 4,996.0        | 4,996.0        | 13.0            | 8.7    | -175.92           | 182.1                  | 277.0      | 890.0           | 872.1            | 17.92             | 49.660     |  |         |                    |  |        |  |
| 5,400.0         | 5,370.3        | 4,996.0        | 4,996.0        | 13.3            | 8.7    | -175.92           | 182.1                  | 277.0      | 935.9           | 917.8            | 18.10             | 51.715     |  |         |                    |  |        |  |
| 5,500.0         | 5,469.6        | 4,996.0        | 4,996.0        | 13.5            | 8.7    | -175.92           | 182.1                  | 277.0      | 989.8           | 971.5            | 18.27             | 54.168     |  |         |                    |  |        |  |
| 5,600.0         | 5,568.9        | 4,996.0        | 4,996.0        | 13.8            | 8.7    | -175.92           | 182.1                  | 277.0      | 1,050.4         | 1,032.0          | 18.45             | 56.942     |  |         |                    |  |        |  |
| 5,700.0         | 5,668.3        | 4,996.0        | 4,996.0        | 14.1            | 8.7    | -175.92           | 182.1                  | 277.0      | 1,116.8         | 1,098.2          | 18.62             | 59.969     |  |         |                    |  |        |  |
| 5,800.0         | 5,767.6        | 4,996.0        | 4,996.0        | 14.3            | 8.7    | -175.92           | 182.1                  | 277.0      | 1,187.9         | 1,169.1          | 18.80             | 63.190     |  |         |                    |  |        |  |
| 5,900.0         | 5,867.0        | 4,996.0        | 4,996.0        | 14.6            | 8.7    | -175.92           | 182.1                  | 277.0      | 1,262.9         | 1,243.9          | 18.97             | 66.558     |  |         |                    |  |        |  |
| 6,000.0         | 5,966.3        | 4,996.0        | 4,996.0        | 14.9            | 8.7    | -175.92           | 182.1                  | 277.0      | 1,341.1         | 1,322.0          | 19.15             | 70.036     |  |         |                    |  |        |  |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 5 (EXISTING) - VESSELS WELL - NO SURVEYS |                           |                           |                           |                   |                |                             |   |               |                              |                      |         |               | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|---------------|--------------------|--------|
| Survey Program: 5000-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) |                              |                      |         |               |                    |        |
| 1,800.0  | 1,794.0                   | 1,791.0                   | 1,791.0                   | 3.8               | 3.1            | -2.61                       | -1,046.5                                | -1,020.4      | 1,344.7                      | 1,338.4              | 6.23    | 215.778       |                    |        |
| 1,900.0  | 1,893.3                   | 1,890.3                   | 1,890.3                   | 4.0               | 3.3            | -2.63                       | -1,046.5                                | -1,020.4      | 1,333.2                      | 1,326.6              | 6.58    | 202.632       |                    |        |
| 2,000.0  | 1,992.7                   | 1,989.7                   | 1,989.7                   | 4.3               | 3.5            | -2.66                       | -1,046.5                                | -1,020.4      | 1,321.8                      | 1,314.8              | 6.93    | 190.806       |                    |        |
| 2,100.0  | 2,092.0                   | 2,089.0                   | 2,089.0                   | 4.6               | 3.6            | -2.68                       | -1,046.5                                | -1,020.4      | 1,310.3                      | 1,303.0              | 7.28    | 180.111       |                    |        |
| 2,200.0  | 2,191.4                   | 2,188.4                   | 2,188.4                   | 4.8               | 3.8            | -2.70                       | -1,046.5                                | -1,020.4      | 1,298.9                      | 1,291.2              | 7.62    | 170.391       |                    |        |
| 2,300.0  | 2,290.7                   | 2,287.7                   | 2,287.7                   | 5.1               | 4.0            | -2.73                       | -1,046.5                                | -1,020.4      | 1,287.4                      | 1,279.4              | 7.97    | 161.520       |                    |        |
| 2,400.0  | 2,390.0                   | 2,387.0                   | 2,387.0                   | 5.3               | 4.2            | -2.75                       | -1,046.5                                | -1,020.4      | 1,276.0                      | 1,267.6              | 8.32    | 153.390       |                    |        |
| 2,500.0  | 2,489.4                   | 2,486.4                   | 2,486.4                   | 5.6               | 4.3            | -2.78                       | -1,046.5                                | -1,020.4      | 1,264.5                      | 1,255.8              | 8.67    | 145.913       |                    |        |
| 2,600.0  | 2,588.7                   | 2,585.7                   | 2,585.7                   | 5.9               | 4.5            | -2.80                       | -1,046.5                                | -1,020.4      | 1,253.1                      | 1,244.0              | 9.01    | 139.012       |                    |        |
| 2,700.0  | 2,688.1                   | 2,685.1                   | 2,685.1                   | 6.1               | 4.7            | -2.83                       | -1,046.5                                | -1,020.4      | 1,241.6                      | 1,232.2              | 9.36    | 132.625       |                    |        |
| 2,800.0  | 2,787.4                   | 2,784.4                   | 2,784.4                   | 6.4               | 4.9            | -2.86                       | -1,046.5                                | -1,020.4      | 1,230.2                      | 1,220.4              | 9.71    | 126.694       |                    |        |
| 2,900.0  | 2,886.7                   | 2,883.7                   | 2,883.7                   | 6.7               | 5.0            | -2.88                       | -1,046.5                                | -1,020.4      | 1,218.7                      | 1,208.6              | 10.06   | 121.174       |                    |        |
| 3,000.0  | 2,986.1                   | 2,983.1                   | 2,983.1                   | 6.9               | 5.2            | -2.91                       | -1,046.5                                | -1,020.4      | 1,207.3                      | 1,196.9              | 10.41   | 116.023       |                    |        |
| 3,100.0  | 3,085.4                   | 3,082.4                   | 3,082.4                   | 7.2               | 5.4            | -2.94                       | -1,046.5                                | -1,020.4      | 1,195.8                      | 1,185.1              | 10.75   | 111.205       |                    |        |
| 3,200.0  | 3,184.8                   | 3,181.8                   | 3,181.8                   | 7.5               | 5.6            | -2.97                       | -1,046.5                                | -1,020.4      | 1,184.4                      | 1,173.3              | 11.10   | 106.689       |                    |        |
| 3,300.0  | 3,284.1                   | 3,281.1                   | 3,281.1                   | 7.7               | 5.7            | -2.99                       | -1,046.5                                | -1,020.4      | 1,172.9                      | 1,161.5              | 11.45   | 102.447       |                    |        |
| 3,400.0  | 3,383.4                   | 3,380.4                   | 3,380.4                   | 8.0               | 5.9            | -3.02                       | -1,046.5                                | -1,020.4      | 1,161.5                      | 1,149.7              | 11.80   | 98.455        |                    |        |
| 3,500.0  | 3,482.8                   | 3,479.8                   | 3,479.8                   | 8.2               | 6.1            | -3.05                       | -1,046.5                                | -1,020.4      | 1,150.0                      | 1,137.9              | 12.14   | 94.692        |                    |        |
| 3,600.0  | 3,582.1                   | 3,579.1                   | 3,579.1                   | 8.5               | 6.2            | -3.09                       | -1,046.5                                | -1,020.4      | 1,138.6                      | 1,126.1              | 12.49   | 91.138        |                    |        |
| 3,700.0  | 3,681.5                   | 3,678.5                   | 3,678.5                   | 8.8               | 6.4            | -3.12                       | -1,046.5                                | -1,020.4      | 1,127.1                      | 1,114.3              | 12.84   | 87.777        |                    |        |
| 3,800.0  | 3,780.8                   | 3,777.8                   | 3,777.8                   | 9.0               | 6.6            | -3.15                       | -1,046.5                                | -1,020.4      | 1,115.7                      | 1,102.5              | 13.19   | 84.593        |                    |        |
| 3,900.0  | 3,880.1                   | 3,877.1                   | 3,877.1                   | 9.3               | 6.8            | -3.18                       | -1,046.5                                | -1,020.4      | 1,104.2                      | 1,090.7              | 13.54   | 81.573        |                    |        |
| 4,000.0  | 3,979.5                   | 3,976.5                   | 3,976.5                   | 9.6               | 6.9            | -3.21                       | -1,046.5                                | -1,020.4      | 1,092.8                      | 1,078.9              | 13.88   | 78.704        |                    |        |
| 4,100.0  | 4,078.8                   | 4,075.8                   | 4,075.8                   | 9.8               | 7.1            | -3.25                       | -1,046.5                                | -1,020.4      | 1,081.3                      | 1,067.1              | 14.23   | 75.975        |                    |        |
| 4,200.0  | 4,178.2                   | 4,175.2                   | 4,175.2                   | 10.1              | 7.3            | -3.28                       | -1,046.5                                | -1,020.4      | 1,069.9                      | 1,055.3              | 14.58   | 73.376        |                    |        |
| 4,300.0  | 4,277.5                   | 4,274.5                   | 4,274.5                   | 10.4              | 7.5            | -3.32                       | -1,046.5                                | -1,020.4      | 1,058.4                      | 1,043.5              | 14.93   | 70.899        |                    |        |
| 4,400.0  | 4,376.8                   | 4,373.8                   | 4,373.8                   | 10.6              | 7.6            | -3.36                       | -1,046.5                                | -1,020.4      | 1,047.0                      | 1,031.7              | 15.28   | 68.534        |                    |        |
| 4,500.0  | 4,476.2                   | 4,473.2                   | 4,473.2                   | 10.9              | 7.8            | -3.39                       | -1,046.5                                | -1,020.4      | 1,035.5                      | 1,019.9              | 15.62   | 66.275        |                    |        |
| 4,600.0  | 4,575.5                   | 4,572.5                   | 4,572.5                   | 11.2              | 8.0            | -3.43                       | -1,046.5                                | -1,020.4      | 1,024.1                      | 1,008.1              | 15.97   | 64.114        |                    |        |
| 4,700.0  | 4,674.9                   | 4,671.9                   | 4,671.9                   | 11.4              | 8.2            | -3.47                       | -1,046.5                                | -1,020.4      | 1,012.6                      | 996.3                | 16.32   | 62.045        |                    |        |
| 4,800.0  | 4,774.2                   | 4,771.2                   | 4,771.2                   | 11.7              | 8.3            | -3.51                       | -1,046.5                                | -1,020.4      | 1,001.2                      | 984.5                | 16.67   | 60.062        |                    |        |
| 4,900.0  | 4,873.5                   | 4,870.5                   | 4,870.5                   | 12.0              | 8.5            | -3.55                       | -1,046.5                                | -1,020.4      | 989.8                        | 972.7                | 17.02   | 58.161        |                    |        |
| 5,000.0  | 4,972.9                   | 4,969.9                   | 4,969.9                   | 12.2              | 8.7            | -3.59                       | -1,046.5                                | -1,020.4      | 978.3                        | 960.9                | 17.37   | 56.335        |                    |        |
| 5,100.0  | 5,072.2                   | 5,000.0                   | 5,000.0                   | 12.5              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 969.3                        | 951.8                | 17.59   | 55.097        |                    |        |
| 5,141.9  | 5,113.8                   | 5,000.0                   | 5,000.0                   | 12.6              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 968.4                        | 950.8                | 17.67   | 54.817 CC, ES |                    |        |
| 5,200.0  | 5,171.6                   | 5,000.0                   | 5,000.0                   | 12.7              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 970.2                        | 952.4                | 17.77   | 54.600 SF     |                    |        |
| 5,300.0  | 5,270.9                   | 5,000.0                   | 5,000.0                   | 13.0              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 981.3                        | 963.3                | 17.94   | 54.685        |                    |        |
| 5,400.0  | 5,370.3                   | 5,000.0                   | 5,000.0                   | 13.3              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 1,002.3                      | 984.1                | 18.12   | 55.314        |                    |        |
| 5,500.0  | 5,469.6                   | 5,000.0                   | 5,000.0                   | 13.5              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 1,032.5                      | 1,014.2              | 18.29   | 56.440        |                    |        |
| 5,600.0  | 5,568.9                   | 5,000.0                   | 5,000.0                   | 13.8              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 1,071.3                      | 1,052.9              | 18.47   | 58.005        |                    |        |
| 5,700.0  | 5,668.3                   | 5,000.0                   | 5,000.0                   | 14.1              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 1,117.8                      | 1,099.1              | 18.65   | 59.949        |                    |        |
| 5,800.0  | 5,767.6                   | 5,000.0                   | 5,000.0                   | 14.3              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 1,170.9                      | 1,152.1              | 18.82   | 62.215        |                    |        |
| 5,900.0  | 5,867.0                   | 5,000.0                   | 5,000.0                   | 14.6              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 1,229.9                      | 1,210.9              | 19.00   | 64.746        |                    |        |
| 6,000.0  | 5,966.3                   | 5,000.0                   | 5,000.0                   | 14.9              | 8.7            | -3.60                       | -1,046.5                                | -1,020.4      | 1,293.9                      | 1,274.8              | 19.17   | 67.495        |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 5035-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |  |
| Measured Depth (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         | -126.19               | -737.6                            | -1,008.3   | 1,249.5              |                       |                        |                   |                           |  |
| 100.0   | 100.0               | 78.0                | 78.0                | 0.2             | 0.1         | -126.19               | -737.6                            | -1,008.3   | 1,249.3              | 1,249.0               | 0.29                   | 4,335.322         |                           |  |
| 200.0   | 200.0               | 178.0               | 178.0               | 0.3             | 0.3         | -126.19               | -737.6                            | -1,008.3   | 1,249.3              | 1,248.7               | 0.64                   | 1,960.550         |                           |  |
| 300.0   | 300.0               | 278.0               | 278.0               | 0.5             | 0.5         | -126.19               | -737.6                            | -1,008.3   | 1,249.3              | 1,248.4               | 0.99                   | 1,266.691         |                           |  |
| 400.0   | 400.0               | 378.0               | 378.0               | 0.7             | 0.7         | -126.19               | -737.6                            | -1,008.3   | 1,249.3              | 1,248.0               | 1.34                   | 935.580           |                           |  |
| 450.0   | 450.0               | 428.0               | 428.0               | 0.8             | 0.7         | -126.19               | -737.6                            | -1,008.3   | 1,249.3              | 1,247.8               | 1.51                   | 827.434           |                           |  |
| 500.0   | 500.0               | 478.0               | 478.0               | 0.9             | 0.8         | 7.15                  | -737.6                            | -1,008.3   | 1,249.1              | 1,247.4               | 1.68                   | 741.590           |                           |  |
| 600.0   | 600.0               | 578.0               | 578.0               | 1.0             | 1.0         | 7.17                  | -737.6                            | -1,008.3   | 1,247.4              | 1,245.4               | 2.03                   | 613.552           |                           |  |
| 700.0   | 699.9               | 677.9               | 677.9               | 1.2             | 1.2         | 7.19                  | -737.6                            | -1,008.3   | 1,243.9              | 1,241.5               | 2.38                   | 522.384           |                           |  |
| 800.0   | 799.8               | 777.8               | 777.8               | 1.4             | 1.4         | 7.23                  | -737.6                            | -1,008.3   | 1,238.7              | 1,236.0               | 2.73                   | 453.943           |                           |  |
| 900.0   | 899.5               | 877.5               | 877.5               | 1.6             | 1.5         | 7.28                  | -737.6                            | -1,008.3   | 1,231.8              | 1,228.7               | 3.08                   | 400.498           |                           |  |
| 1,000.0   | 999.2               | 977.2               | 977.2               | 1.8             | 1.7         | 7.34                  | -737.6                            | -1,008.3   | 1,223.2              | 1,219.7               | 3.42                   | 357.466           |                           |  |
| 1,108.4   | 1,106.9             | 1,084.9             | 1,084.9             | 2.1             | 1.9         | 7.42                  | -737.6                            | -1,008.3   | 1,211.9              | 1,208.1               | 3.80                   | 319.267           |                           |  |
| 1,200.0   | 1,197.9             | 1,175.9             | 1,175.9             | 2.3             | 2.1         | 7.49                  | -737.6                            | -1,008.3   | 1,201.4              | 1,197.3               | 4.12                   | 291.928           |                           |  |
| 1,300.0   | 1,297.3             | 1,275.3             | 1,275.3             | 2.5             | 2.2         | 7.56                  | -737.6                            | -1,008.3   | 1,190.1              | 1,185.6               | 4.46                   | 266.558           |                           |  |
| 1,400.0   | 1,396.6             | 1,374.6             | 1,374.6             | 2.8             | 2.4         | 7.63                  | -737.6                            | -1,008.3   | 1,178.7              | 1,173.9               | 4.81                   | 244.862           |                           |  |
| 1,500.0   | 1,496.0             | 1,474.0             | 1,474.0             | 3.0             | 2.6         | 7.71                  | -737.6                            | -1,008.3   | 1,167.3              | 1,162.2               | 5.16                   | 226.096           |                           |  |
| 1,600.0   | 1,595.3             | 1,573.3             | 1,573.3             | 3.3             | 2.7         | 7.78                  | -737.6                            | -1,008.3   | 1,156.0              | 1,150.5               | 5.51                   | 209.704           |                           |  |
| 1,700.0   | 1,694.7             | 1,672.7             | 1,672.7             | 3.5             | 2.9         | 7.86                  | -737.6                            | -1,008.3   | 1,144.6              | 1,138.8               | 5.86                   | 195.263           |                           |  |
| 1,800.0   | 1,794.0             | 1,772.0             | 1,772.0             | 3.8             | 3.1         | 7.94                  | -737.6                            | -1,008.3   | 1,133.3              | 1,127.0               | 6.21                   | 182.444           |                           |  |
| 1,900.0   | 1,893.3             | 1,871.3             | 1,871.3             | 4.0             | 3.3         | 8.02                  | -737.6                            | -1,008.3   | 1,121.9              | 1,115.3               | 6.56                   | 170.989           |                           |  |
| 2,000.0   | 1,992.7             | 1,970.7             | 1,970.7             | 4.3             | 3.4         | 8.10                  | -737.6                            | -1,008.3   | 1,110.6              | 1,103.6               | 6.91                   | 160.691           |                           |  |
| 2,100.0   | 2,092.0             | 2,070.0             | 2,070.0             | 4.6             | 3.6         | 8.19                  | -737.6                            | -1,008.3   | 1,099.2              | 1,091.9               | 7.26                   | 151.383           |                           |  |
| 2,200.0   | 2,191.4             | 2,169.4             | 2,169.4             | 4.8             | 3.8         | 8.27                  | -737.6                            | -1,008.3   | 1,087.9              | 1,080.2               | 7.61                   | 142.929           |                           |  |
| 2,300.0   | 2,290.7             | 2,268.7             | 2,268.7             | 5.1             | 4.0         | 8.36                  | -737.6                            | -1,008.3   | 1,076.5              | 1,068.5               | 7.96                   | 135.217           |                           |  |
| 2,400.0   | 2,390.0             | 2,368.0             | 2,368.0             | 5.3             | 4.1         | 8.45                  | -737.6                            | -1,008.3   | 1,065.2              | 1,056.9               | 8.31                   | 128.153           |                           |  |
| 2,500.0   | 2,489.4             | 2,467.4             | 2,467.4             | 5.6             | 4.3         | 8.54                  | -737.6                            | -1,008.3   | 1,053.8              | 1,045.2               | 8.66                   | 121.659           |                           |  |
| 2,600.0   | 2,588.7             | 2,566.7             | 2,566.7             | 5.9             | 4.5         | 8.64                  | -737.6                            | -1,008.3   | 1,042.5              | 1,033.5               | 9.01                   | 115.669           |                           |  |
| 2,700.0   | 2,688.1             | 2,666.1             | 2,666.1             | 6.1             | 4.7         | 8.73                  | -737.6                            | -1,008.3   | 1,031.1              | 1,021.8               | 9.36                   | 110.126           |                           |  |
| 2,800.0   | 2,787.4             | 2,765.4             | 2,765.4             | 6.4             | 4.8         | 8.83                  | -737.6                            | -1,008.3   | 1,019.8              | 1,010.1               | 9.71                   | 104.982           |                           |  |
| 2,900.0   | 2,886.7             | 2,864.7             | 2,864.7             | 6.7             | 5.0         | 8.93                  | -737.6                            | -1,008.3   | 1,008.5              | 998.4                 | 10.07                  | 100.195           |                           |  |
| 3,000.0   | 2,986.1             | 2,964.1             | 2,964.1             | 6.9             | 5.2         | 9.03                  | -737.6                            | -1,008.3   | 997.2                | 986.7                 | 10.42                  | 95.730            |                           |  |
| 3,100.0   | 3,085.4             | 3,063.4             | 3,063.4             | 7.2             | 5.3         | 9.14                  | -737.6                            | -1,008.3   | 985.8                | 975.1                 | 10.77                  | 91.555            |                           |  |
| 3,200.0   | 3,184.8             | 3,162.8             | 3,162.8             | 7.5             | 5.5         | 9.24                  | -737.6                            | -1,008.3   | 974.5                | 963.4                 | 11.12                  | 87.642            |                           |  |
| 3,300.0   | 3,284.1             | 3,262.1             | 3,262.1             | 7.7             | 5.7         | 9.35                  | -737.6                            | -1,008.3   | 963.2                | 951.7                 | 11.47                  | 83.969            |                           |  |
| 3,400.0   | 3,383.4             | 3,361.4             | 3,361.4             | 8.0             | 5.9         | 9.47                  | -737.6                            | -1,008.3   | 951.9                | 940.1                 | 11.82                  | 80.513            |                           |  |
| 3,500.0   | 3,482.8             | 3,460.8             | 3,460.8             | 8.2             | 6.0         | 9.58                  | -737.6                            | -1,008.3   | 940.6                | 928.4                 | 12.17                  | 77.255            |                           |  |
| 3,600.0   | 3,582.1             | 3,560.1             | 3,560.1             | 8.5             | 6.2         | 9.70                  | -737.6                            | -1,008.3   | 929.3                | 916.7                 | 12.53                  | 74.180            |                           |  |
| 3,700.0   | 3,681.5             | 3,659.5             | 3,659.5             | 8.8             | 6.4         | 9.82                  | -737.6                            | -1,008.3   | 918.0                | 905.1                 | 12.88                  | 71.272            |                           |  |
| 3,800.0   | 3,780.8             | 3,758.8             | 3,758.8             | 9.0             | 6.6         | 9.94                  | -737.6                            | -1,008.3   | 906.7                | 893.4                 | 13.23                  | 68.519            |                           |  |
| 3,900.0   | 3,880.1             | 3,858.1             | 3,858.1             | 9.3             | 6.7         | 10.07                 | -737.6                            | -1,008.3   | 895.4                | 881.8                 | 13.59                  | 65.907            |                           |  |
| 4,000.0   | 3,979.5             | 3,957.5             | 3,957.5             | 9.6             | 6.9         | 10.20                 | -737.6                            | -1,008.3   | 884.1                | 870.2                 | 13.94                  | 63.427            |                           |  |
| 4,100.0   | 4,078.8             | 4,056.8             | 4,056.8             | 9.8             | 7.1         | 10.33                 | -737.6                            | -1,008.3   | 872.8                | 858.5                 | 14.29                  | 61.068            |                           |  |
| 4,200.0   | 4,178.2             | 4,156.2             | 4,156.2             | 10.1            | 7.3         | 10.47                 | -737.6                            | -1,008.3   | 861.5                | 846.9                 | 14.65                  | 58.823            |                           |  |
| 4,300.0   | 4,277.5             | 4,255.5             | 4,255.5             | 10.4            | 7.4         | 10.61                 | -737.6                            | -1,008.3   | 850.3                | 835.3                 | 15.00                  | 56.683            |                           |  |
| 4,400.0   | 4,376.8             | 4,354.8             | 4,354.8             | 10.6            | 7.6         | 10.75                 | -737.6                            | -1,008.3   | 839.0                | 823.6                 | 15.35                  | 54.640            |                           |  |
| 4,500.0   | 4,476.2             | 4,454.2             | 4,454.2             | 10.9            | 7.8         | 10.90                 | -737.6                            | -1,008.3   | 827.7                | 812.0                 | 15.71                  | 52.689            |                           |  |
| 4,600.0   | 4,575.5             | 4,553.5             | 4,553.5             | 11.2            | 7.9         | 11.05                 | -737.6                            | -1,008.3   | 816.5                | 800.4                 | 16.06                  | 50.824            |                           |  |
| 4,700.0   | 4,674.9             | 4,652.9             | 4,652.9             | 11.4            | 8.1         | 11.21                 | -737.6                            | -1,008.3   | 805.2                | 788.8                 | 16.42                  | 49.038            |                           |  |
| 4,800.0   | 4,774.2             | 4,752.2             | 4,752.2             | 11.7            | 8.3         | 11.37                 | -737.6                            | -1,008.3   | 794.0                | 777.2                 | 16.78                  | 47.327            |                           |  |
| 4,900.0   | 4,873.5             | 4,851.5             | 4,851.5             | 12.0            | 8.5         | 11.54                 | -737.6                            | -1,008.3   | 782.7                | 765.6                 | 17.13                  | 45.687            |                           |  |
| 5,000.0   | 4,972.9             | 4,950.9             | 4,950.9             | 12.2            | 8.6         | 11.71                 | -737.6                            | -1,008.3   | 771.5                | 754.0                 | 17.49                  | 44.112            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       | Offset Site Error:     |                   | 0.0 ft  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|
| Survey Program: 5035-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       | Offset Well Error:     |                   | 0.0 ft  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |         |
| 5,100.0   | 5,072.2             | 5,035.0             | 5,035.0             | 12.5            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 760.4                | 742.6                 | 17.82                  | 42.674            |         |
| 5,170.2   | 5,142.0             | 5,035.0             | 5,035.0             | 12.7            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 757.2                | 739.2                 | 17.95                  | 42.193            | CC, ES  |
| 5,200.0   | 5,171.6             | 5,035.0             | 5,035.0             | 12.7            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 757.8                | 739.8                 | 18.00                  | 42.101            | SF      |
| 5,300.0   | 5,270.9             | 5,035.0             | 5,035.0             | 13.0            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 768.2                | 750.0                 | 18.18                  | 42.260            |         |
| 5,400.0   | 5,370.3             | 5,035.0             | 5,035.0             | 13.3            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 791.3                | 772.9                 | 18.36                  | 43.103            |         |
| 5,500.0   | 5,469.6             | 5,035.0             | 5,035.0             | 13.5            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 825.9                | 807.3                 | 18.54                  | 44.552            |         |
| 5,600.0   | 5,568.9             | 5,035.0             | 5,035.0             | 13.8            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 870.7                | 851.9                 | 18.72                  | 46.517            |         |
| 5,700.0   | 5,668.3             | 5,035.0             | 5,035.0             | 14.1            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 924.1                | 905.2                 | 18.90                  | 48.905            |         |
| 5,800.0   | 5,767.6             | 5,035.0             | 5,035.0             | 14.3            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 984.9                | 965.8                 | 19.08                  | 51.629            |         |
| 5,900.0   | 5,867.0             | 5,035.0             | 5,035.0             | 14.6            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 1,051.6              | 1,032.4               | 19.26                  | 54.614            |         |
| 6,000.0   | 5,966.3             | 5,035.0             | 5,035.0             | 14.9            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 1,123.3              | 1,103.9               | 19.44                  | 57.799            |         |
| 6,100.0   | 6,065.6             | 5,035.0             | 5,035.0             | 15.1            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 1,199.1              | 1,179.5               | 19.61                  | 61.133            |         |
| 6,200.0   | 6,165.0             | 5,035.0             | 5,035.0             | 15.4            | 8.8         | 11.85                 | -737.6                            | -1,008.3   | 1,278.2              | 1,258.4               | 19.79                  | 64.575            |         |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 8140-Geolink MWD   |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | 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         | -134.80               | -543.5                            | -547.2     | 771.4                |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 89.0                | 89.0                | 0.2             | 0.2         | -134.80               | -543.5                            | -547.2     | 771.3                | 771.0                 | 0.31                   | 2,509.218         |                           |         |
| 200.0  | 200.0               | 189.0               | 189.0               | 0.3             | 0.3         | -134.80               | -543.5                            | -547.2     | 771.3                | 770.6                 | 0.66                   | 1,174.934         |                           |         |
| 300.0  | 300.0               | 289.0               | 289.0               | 0.5             | 0.5         | -134.80               | -543.5                            | -547.2     | 771.3                | 770.3                 | 1.01                   | 767.052           |                           |         |
| 400.0  | 400.0               | 389.0               | 389.0               | 0.7             | 0.7         | -134.80               | -543.5                            | -547.2     | 771.3                | 769.9                 | 1.35                   | 569.388           |                           |         |
| 450.0  | 450.0               | 439.0               | 439.0               | 0.8             | 0.8         | -134.80               | -543.5                            | -547.2     | 771.3                | 769.7                 | 1.53                   | 504.398           |                           |         |
| 500.0  | 500.0               | 489.0               | 489.0               | 0.9             | 0.9         | -1.46                 | -543.5                            | -547.2     | 771.1                | 769.4                 | 1.70                   | 452.607           |                           |         |
| 600.0  | 600.0               | 589.0               | 589.0               | 1.0             | 1.0         | -1.47                 | -543.5                            | -547.2     | 769.3                | 767.3                 | 2.05                   | 374.864           |                           |         |
| 700.0  | 699.9               | 688.9               | 688.9               | 1.2             | 1.2         | -1.48                 | -543.5                            | -547.2     | 765.8                | 763.4                 | 2.40                   | 319.050           |                           |         |
| 800.0  | 799.8               | 788.8               | 788.8               | 1.4             | 1.4         | -1.49                 | -543.5                            | -547.2     | 760.6                | 757.8                 | 2.75                   | 276.813           |                           |         |
| 900.0  | 899.5               | 888.5               | 888.5               | 1.6             | 1.6         | -1.50                 | -543.5                            | -547.2     | 753.6                | 750.5                 | 3.09                   | 243.565           |                           |         |
| 1,000.0  | 999.2               | 988.2               | 988.2               | 1.8             | 1.7         | -1.52                 | -543.5                            | -547.2     | 744.9                | 741.5                 | 3.44                   | 216.575           |                           |         |
| 1,108.4  | 1,106.9             | 1,095.9             | 1,095.9             | 2.1             | 1.9         | -1.55                 | -543.5                            | -547.2     | 733.5                | 729.7                 | 3.81                   | 192.405           |                           |         |
| 1,200.0  | 1,197.9             | 1,186.9             | 1,186.9             | 2.3             | 2.1         | -1.57                 | -543.5                            | -547.2     | 723.0                | 718.9                 | 4.13                   | 175.019           |                           |         |
| 1,300.0  | 1,297.3             | 1,286.3             | 1,286.3             | 2.5             | 2.2         | -1.60                 | -543.5                            | -547.2     | 711.5                | 707.1                 | 4.48                   | 158.872           |                           |         |
| 1,400.0  | 1,396.6             | 1,385.6             | 1,385.6             | 2.8             | 2.4         | -1.62                 | -543.5                            | -547.2     | 700.1                | 695.3                 | 4.83                   | 145.052           |                           |         |
| 1,500.0  | 1,496.0             | 1,485.0             | 1,485.0             | 3.0             | 2.6         | -1.65                 | -543.5                            | -547.2     | 688.6                | 683.4                 | 5.17                   | 133.090           |                           |         |
| 1,600.0  | 1,595.3             | 1,584.3             | 1,584.3             | 3.3             | 2.8         | -1.68                 | -543.5                            | -547.2     | 677.2                | 671.6                 | 5.52                   | 122.635           |                           |         |
| 1,700.0  | 1,694.7             | 1,683.7             | 1,683.7             | 3.5             | 2.9         | -1.71                 | -543.5                            | -547.2     | 665.7                | 659.8                 | 5.87                   | 113.419           |                           |         |
| 1,800.0  | 1,794.0             | 1,783.0             | 1,783.0             | 3.8             | 3.1         | -1.74                 | -543.5                            | -547.2     | 654.2                | 648.0                 | 6.22                   | 105.233           |                           |         |
| 1,900.0  | 1,893.3             | 1,882.3             | 1,882.3             | 4.0             | 3.3         | -1.77                 | -543.5                            | -547.2     | 642.8                | 636.2                 | 6.56                   | 97.914            |                           |         |
| 2,000.0  | 1,992.7             | 1,981.7             | 1,981.7             | 4.3             | 3.5         | -1.80                 | -543.5                            | -547.2     | 631.3                | 624.4                 | 6.91                   | 91.332            |                           |         |
| 2,100.0  | 2,092.0             | 2,081.0             | 2,081.0             | 4.6             | 3.6         | -1.83                 | -543.5                            | -547.2     | 619.9                | 612.6                 | 7.26                   | 85.380            |                           |         |
| 2,200.0  | 2,191.4             | 2,180.4             | 2,180.4             | 4.8             | 3.8         | -1.87                 | -543.5                            | -547.2     | 608.4                | 600.8                 | 7.61                   | 79.972            |                           |         |
| 2,300.0  | 2,290.7             | 2,279.7             | 2,279.7             | 5.1             | 4.0         | -1.90                 | -543.5                            | -547.2     | 596.9                | 589.0                 | 7.96                   | 75.037            |                           |         |
| 2,400.0  | 2,390.0             | 2,379.0             | 2,379.0             | 5.3             | 4.2         | -1.94                 | -543.5                            | -547.2     | 585.5                | 577.2                 | 8.30                   | 70.515            |                           |         |
| 2,500.0  | 2,489.4             | 2,478.4             | 2,478.4             | 5.6             | 4.3         | -1.98                 | -543.5                            | -547.2     | 574.0                | 565.4                 | 8.65                   | 66.356            |                           |         |
| 2,600.0  | 2,588.7             | 2,577.7             | 2,577.7             | 5.9             | 4.5         | -2.02                 | -543.5                            | -547.2     | 562.6                | 553.6                 | 9.00                   | 62.519            |                           |         |
| 2,700.0  | 2,688.1             | 2,677.1             | 2,677.1             | 6.1             | 4.7         | -2.06                 | -543.5                            | -547.2     | 551.1                | 541.8                 | 9.35                   | 58.967            |                           |         |
| 2,800.0  | 2,787.4             | 2,776.4             | 2,776.4             | 6.4             | 4.8         | -2.11                 | -543.5                            | -547.2     | 539.6                | 530.0                 | 9.69                   | 55.670            |                           |         |
| 2,900.0  | 2,886.7             | 2,875.7             | 2,875.7             | 6.7             | 5.0         | -2.15                 | -543.5                            | -547.2     | 528.2                | 518.2                 | 10.04                  | 52.601            |                           |         |
| 3,000.0  | 2,986.1             | 2,975.1             | 2,975.1             | 6.9             | 5.2         | -2.20                 | -543.5                            | -547.2     | 516.7                | 506.3                 | 10.39                  | 49.737            |                           |         |
| 3,100.0  | 3,085.4             | 3,074.4             | 3,074.4             | 7.2             | 5.4         | -2.25                 | -543.5                            | -547.2     | 505.3                | 494.5                 | 10.74                  | 47.059            |                           |         |
| 3,200.0  | 3,184.8             | 3,173.8             | 3,173.8             | 7.5             | 5.5         | -2.30                 | -543.5                            | -547.2     | 493.8                | 482.7                 | 11.08                  | 44.549            |                           |         |
| 3,300.0  | 3,284.1             | 3,273.1             | 3,273.1             | 7.7             | 5.7         | -2.36                 | -543.5                            | -547.2     | 482.4                | 470.9                 | 11.43                  | 42.192            |                           |         |
| 3,400.0  | 3,383.4             | 3,372.4             | 3,372.4             | 8.0             | 5.9         | -2.41                 | -543.5                            | -547.2     | 470.9                | 459.1                 | 11.78                  | 39.974            |                           |         |
| 3,500.0  | 3,482.8             | 3,471.8             | 3,471.8             | 8.2             | 6.1         | -2.47                 | -543.5                            | -547.2     | 459.5                | 447.3                 | 12.13                  | 37.883            |                           |         |
| 3,600.0  | 3,582.1             | 3,571.1             | 3,571.1             | 8.5             | 6.2         | -2.54                 | -543.5                            | -547.2     | 448.0                | 435.5                 | 12.48                  | 35.908            |                           |         |
| 3,700.0  | 3,681.5             | 3,670.5             | 3,670.5             | 8.8             | 6.4         | -2.60                 | -543.5                            | -547.2     | 436.5                | 423.7                 | 12.82                  | 34.041            |                           |         |
| 3,800.0  | 3,780.8             | 3,769.8             | 3,769.8             | 9.0             | 6.6         | -2.67                 | -543.5                            | -547.2     | 425.1                | 411.9                 | 13.17                  | 32.272            |                           |         |
| 3,900.0  | 3,880.1             | 3,869.1             | 3,869.1             | 9.3             | 6.8         | -2.75                 | -543.5                            | -547.2     | 413.6                | 400.1                 | 13.52                  | 30.594            |                           |         |
| 4,000.0  | 3,979.5             | 3,968.5             | 3,968.5             | 9.6             | 6.9         | -2.83                 | -543.5                            | -547.2     | 402.2                | 388.3                 | 13.87                  | 29.000            |                           |         |
| 4,100.0  | 4,078.8             | 4,067.8             | 4,067.8             | 9.8             | 7.1         | -2.91                 | -543.5                            | -547.2     | 390.7                | 376.5                 | 14.22                  | 27.485            |                           |         |
| 4,200.0  | 4,178.2             | 4,167.2             | 4,167.2             | 10.1            | 7.3         | -3.00                 | -543.5                            | -547.2     | 379.3                | 364.7                 | 14.56                  | 26.041            |                           |         |
| 4,300.0  | 4,277.5             | 4,266.5             | 4,266.5             | 10.4            | 7.4         | -3.09                 | -543.5                            | -547.2     | 367.8                | 352.9                 | 14.91                  | 24.665            |                           |         |
| 4,400.0  | 4,376.8             | 4,365.8             | 4,365.8             | 10.6            | 7.6         | -3.19                 | -543.5                            | -547.2     | 356.4                | 341.1                 | 15.26                  | 23.352            |                           |         |
| 4,500.0  | 4,476.2             | 4,465.2             | 4,465.2             | 10.9            | 7.8         | -3.30                 | -543.5                            | -547.2     | 344.9                | 329.3                 | 15.61                  | 22.097            |                           |         |
| 4,600.0  | 4,575.5             | 4,564.5             | 4,564.5             | 11.2            | 8.0         | -3.41                 | -543.5                            | -547.2     | 333.5                | 317.5                 | 15.96                  | 20.897            |                           |         |
| 4,700.0  | 4,674.9             | 4,663.9             | 4,663.9             | 11.4            | 8.1         | -3.53                 | -543.5                            | -547.2     | 322.1                | 305.7                 | 16.31                  | 19.748            |                           |         |
| 4,800.0  | 4,774.2             | 4,763.2             | 4,763.2             | 11.7            | 8.3         | -3.66                 | -543.5                            | -547.2     | 310.6                | 294.0                 | 16.66                  | 18.648            |                           |         |
| 4,900.0  | 4,873.5             | 4,862.5             | 4,862.5             | 12.0            | 8.5         | -3.80                 | -543.5                            | -547.2     | 299.2                | 282.2                 | 17.01                  | 17.592            |                           |         |
| 5,000.0  | 4,972.9             | 4,961.9             | 4,961.9             | 12.2            | 8.7         | -3.95                 | -543.5                            | -547.2     | 287.7                | 270.4                 | 17.36                  | 16.579            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO SURVEYS |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 8140-Geolink MWD   |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     |                     |                     | Offset         |             | Semi Major Axis       |                                   |            | Distance             |                       |                        |                   |                           |  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning                   |  |
| 5,100.0  | 5,072.2             | 5,061.2             | 5,061.2             | 12.5           | 8.8         | -4.12                 | -543.5                            | -547.2     | 276.3                | 258.6                 | 17.71                  | 15.605            |                           |  |
| 5,200.0  | 5,171.6             | 5,160.6             | 5,160.6             | 12.7           | 9.0         | -4.30                 | -543.5                            | -547.2     | 264.9                | 246.8                 | 18.06                  | 14.669            |                           |  |
| 5,300.0  | 5,270.9             | 5,259.9             | 5,259.9             | 13.0           | 9.2         | -4.49                 | -543.5                            | -547.2     | 253.4                | 235.0                 | 18.41                  | 13.769            |                           |  |
| 5,400.0  | 5,370.3             | 5,359.3             | 5,359.3             | 13.3           | 9.4         | -4.70                 | -543.5                            | -547.2     | 242.0                | 223.2                 | 18.76                  | 12.902            |                           |  |
| 5,500.0  | 5,469.6             | 5,458.6             | 5,458.6             | 13.5           | 9.5         | -4.94                 | -543.5                            | -547.2     | 230.6                | 211.5                 | 19.11                  | 12.067            |                           |  |
| 5,600.0  | 5,568.9             | 5,557.9             | 5,557.9             | 13.8           | 9.7         | -5.19                 | -543.5                            | -547.2     | 219.2                | 199.7                 | 19.46                  | 11.261            |                           |  |
| 5,700.0  | 5,668.3             | 5,657.3             | 5,657.3             | 14.1           | 9.9         | -5.48                 | -543.5                            | -547.2     | 207.7                | 187.9                 | 19.81                  | 10.485            |                           |  |
| 5,800.0  | 5,767.6             | 5,756.6             | 5,756.6             | 14.3           | 10.0        | -5.80                 | -543.5                            | -547.2     | 196.3                | 176.2                 | 20.17                  | 9.735             |                           |  |
| 5,900.0  | 5,867.0             | 5,856.0             | 5,856.0             | 14.6           | 10.2        | -6.16                 | -543.5                            | -547.2     | 184.9                | 164.4                 | 20.52                  | 9.011             |                           |  |
| 6,000.0  | 5,966.3             | 5,955.3             | 5,955.3             | 14.9           | 10.4        | -6.56                 | -543.5                            | -547.2     | 173.5                | 152.6                 | 20.88                  | 8.311             |                           |  |
| 6,100.0  | 6,065.6             | 6,054.6             | 6,054.6             | 15.1           | 10.6        | -7.03                 | -543.5                            | -547.2     | 162.1                | 140.9                 | 21.24                  | 7.634             |                           |  |
| 6,200.0  | 6,165.0             | 6,154.0             | 6,154.0             | 15.4           | 10.7        | -7.56                 | -543.5                            | -547.2     | 150.8                | 129.2                 | 21.60                  | 6.980             |                           |  |
| 6,300.0  | 6,264.3             | 6,253.3             | 6,253.3             | 15.7           | 10.9        | -8.18                 | -543.5                            | -547.2     | 139.4                | 117.4                 | 21.97                  | 6.346             |                           |  |
| 6,400.0  | 6,363.7             | 6,352.7             | 6,352.7             | 15.9           | 11.1        | -8.91                 | -543.5                            | -547.2     | 128.1                | 105.7                 | 22.34                  | 5.733             |                           |  |
| 6,500.0  | 6,463.0             | 6,452.0             | 6,452.0             | 16.2           | 11.3        | -9.78                 | -543.5                            | -547.2     | 116.8                | 94.0                  | 22.72                  | 5.139             |                           |  |
| 6,600.0  | 6,562.3             | 6,551.3             | 6,551.3             | 16.5           | 11.4        | -10.84                | -543.5                            | -547.2     | 105.5                | 82.4                  | 23.11                  | 4.564             |                           |  |
| 6,700.0  | 6,661.7             | 6,650.7             | 6,650.7             | 16.7           | 11.6        | -12.15                | -543.5                            | -547.2     | 94.2                 | 70.7                  | 23.51                  | 4.008             |                           |  |
| 6,801.1  | 6,762.1             | 6,751.1             | 6,751.1             | 17.0           | 11.8        | -13.83                | -543.5                            | -547.2     | 82.9                 | 59.0                  | 23.95                  | 3.463             |                           |  |
| 6,850.0  | 6,810.8             | 6,799.8             | 6,799.8             | 17.1           | 11.9        | -63.44                | -543.5                            | -547.2     | 79.3                 | 55.0                  | 24.26                  | 3.268             |                           |  |
| 6,873.5  | 6,834.2             | 6,823.2             | 6,823.2             | 17.1           | 11.9        | -90.00                | -543.5                            | -547.2     | 78.8                 | 54.4                  | 24.41                  | 3.229             | CC, ES, SF                |  |
| 6,900.0  | 6,860.5             | 6,849.5             | 6,849.5             | 17.2           | 12.0        | -110.60               | -543.5                            | -547.2     | 79.4                 | 54.8                  | 24.58                  | 3.230             |                           |  |
| 6,950.0  | 6,909.9             | 6,898.9             | 6,898.9             | 17.2           | 12.0        | -131.95               | -543.5                            | -547.2     | 83.8                 | 59.0                  | 24.87                  | 3.371             |                           |  |
| 7,000.0  | 6,958.4             | 6,947.4             | 6,947.4             | 17.2           | 12.1        | -144.07               | -543.5                            | -547.2     | 92.9                 | 67.8                  | 25.05                  | 3.707             |                           |  |
| 7,050.0  | 7,005.8             | 6,994.8             | 6,994.8             | 17.1           | 12.2        | -152.39               | -543.5                            | -547.2     | 106.6                | 81.5                  | 25.04                  | 4.255             |                           |  |
| 7,100.0  | 7,051.7             | 7,040.7             | 7,040.7             | 17.1           | 12.3        | -158.45               | -543.5                            | -547.2     | 124.9                | 100.0                 | 24.83                  | 5.029             |                           |  |
| 7,150.0  | 7,095.8             | 7,084.8             | 7,084.8             | 17.0           | 12.4        | -162.96               | -543.5                            | -547.2     | 147.5                | 123.1                 | 24.40                  | 6.045             |                           |  |
| 7,200.0  | 7,137.6             | 7,126.6             | 7,126.6             | 16.9           | 12.4        | -166.33               | -543.5                            | -547.2     | 174.2                | 150.4                 | 23.78                  | 7.322             |                           |  |
| 7,250.0  | 7,176.9             | 7,165.9             | 7,165.9             | 16.8           | 12.5        | -168.88               | -543.5                            | -547.2     | 204.6                | 181.6                 | 23.02                  | 8.887             |                           |  |
| 7,300.0  | 7,213.4             | 7,202.4             | 7,202.4             | 16.7           | 12.6        | -170.83               | -543.5                            | -547.2     | 238.4                | 216.3                 | 22.14                  | 10.770            |                           |  |
| 7,350.0  | 7,246.8             | 7,235.8             | 7,235.8             | 16.6           | 12.6        | -172.36               | -543.5                            | -547.2     | 275.4                | 254.3                 | 21.17                  | 13.007            |                           |  |
| 7,400.0  | 7,276.9             | 7,265.9             | 7,265.9             | 16.5           | 12.7        | -173.58               | -543.5                            | -547.2     | 315.3                | 295.1                 | 20.17                  | 15.632            |                           |  |
| 7,450.0  | 7,303.4             | 7,292.4             | 7,292.4             | 16.4           | 12.7        | -174.60               | -543.5                            | -547.2     | 357.6                | 338.4                 | 19.16                  | 18.665            |                           |  |
| 7,500.0  | 7,326.1             | 7,315.1             | 7,315.1             | 16.4           | 12.8        | -175.50               | -543.5                            | -547.2     | 402.1                | 383.9                 | 18.19                  | 22.105            |                           |  |
| 7,550.0  | 7,344.8             | 7,333.8             | 7,333.8             | 16.4           | 12.8        | -176.37               | -543.5                            | -547.2     | 448.4                | 431.1                 | 17.31                  | 25.897            |                           |  |
| 7,600.0  | 7,359.5             | 7,348.5             | 7,348.5             | 16.4           | 12.8        | -177.36               | -543.5                            | -547.2     | 496.2                | 479.6                 | 16.59                  | 29.915            |                           |  |
| 7,650.0  | 7,370.0             | 7,359.0             | 7,359.0             | 16.5           | 12.8        | -178.88               | -543.5                            | -547.2     | 545.0                | 529.0                 | 16.06                  | 33.930            |                           |  |
| 7,700.0  | 7,376.1             | 7,365.1             | 7,365.1             | 16.6           | 12.9        | 177.06                | -543.5                            | -547.2     | 594.6                | 578.8                 | 15.88                  | 37.440            |                           |  |
| 7,746.2  | 7,378.0             | 7,367.0             | 7,367.0             | 16.8           | 12.9        | 90.00                 | -543.5                            | -547.2     | 640.8                | 614.3                 | 26.50                  | 24.178            |                           |  |
| 7,800.0  | 7,378.0             | 7,367.0             | 7,367.0             | 17.0           | 12.9        | 90.00                 | -543.5                            | -547.2     | 694.6                | 667.8                 | 26.77                  | 25.945            |                           |  |
| 7,900.0  | 7,378.0             | 7,367.0             | 7,367.0             | 17.5           | 12.9        | 90.00                 | -543.5                            | -547.2     | 794.6                | 767.2                 | 27.42                  | 28.981            |                           |  |
| 8,000.0  | 7,378.0             | 7,367.0             | 7,367.0             | 18.2           | 12.9        | 90.00                 | -543.5                            | -547.2     | 894.6                | 866.3                 | 28.24                  | 31.680            |                           |  |
| 8,100.0  | 7,378.0             | 7,367.0             | 7,367.0             | 19.0           | 12.9        | 90.00                 | -543.5                            | -547.2     | 994.6                | 965.4                 | 29.21                  | 34.054            |                           |  |
| 8,200.0  | 7,378.0             | 7,367.0             | 7,367.0             | 20.0           | 12.9        | 90.00                 | -543.5                            | -547.2     | 1,094.6              | 1,064.3               | 30.30                  | 36.128            |                           |  |
| 8,300.0  | 7,378.0             | 7,367.0             | 7,367.0             | 21.0           | 12.9        | 90.00                 | -543.5                            | -547.2     | 1,194.6              | 1,163.1               | 31.49                  | 37.935            |                           |  |
| 8,400.0  | 7,378.0             | 7,367.0             | 7,367.0             | 22.2           | 12.9        | 90.00                 | -543.5                            | -547.2     | 1,294.6              | 1,261.8               | 32.77                  | 39.510            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO SURVEYS |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 47-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 |                    |        |
| 8,000.0  | 7,378.0                | 7,448.6                | 7,358.8                | 18.2              | 19.8           | -90.20                      | 1,110.4                                 | -1,645.8      | 1,330.0                    | 1,298.3                     | 31.69                        | 41.972               |                    |        |
| 8,100.0  | 7,378.0                | 7,449.1                | 7,359.3                | 19.0              | 19.8           | -90.23                      | 1,110.4                                 | -1,645.8      | 1,275.5                    | 1,242.9                     | 32.66                        | 39.060               |                    |        |
| 8,200.0  | 7,378.0                | 7,449.6                | 7,359.8                | 20.0              | 19.8           | -90.25                      | 1,110.4                                 | -1,645.8      | 1,226.8                    | 1,193.1                     | 33.75                        | 36.354               |                    |        |
| 8,300.0  | 7,378.0                | 7,450.1                | 7,360.3                | 21.0              | 19.8           | -90.28                      | 1,110.4                                 | -1,645.8      | 1,184.6                    | 1,149.6                     | 34.94                        | 33.904               |                    |        |
| 8,400.0  | 7,378.0                | 7,450.6                | 7,360.8                | 22.2              | 19.8           | -90.30                      | 1,110.4                                 | -1,645.8      | 1,149.5                    | 1,113.3                     | 36.22                        | 31.740               |                    |        |
| 8,500.0  | 7,378.0                | 7,451.1                | 7,361.3                | 23.4              | 19.8           | -90.33                      | 1,110.4                                 | -1,645.7      | 1,122.3                    | 1,084.7                     | 37.56                        | 29.879               |                    |        |
| 8,600.0  | 7,378.0                | 7,451.5                | 7,361.7                | 24.7              | 19.8           | -90.35                      | 1,110.4                                 | -1,645.7      | 1,103.5                    | 1,064.5                     | 38.96                        | 28.322               |                    |        |
| 8,700.0  | 7,378.0                | 7,452.0                | 7,362.2                | 26.0              | 19.8           | -90.38                      | 1,110.4                                 | -1,645.7      | 1,093.5                    | 1,053.1                     | 40.41                        | 27.061               |                    |        |
| 8,759.4  | 7,378.0                | 7,452.3                | 7,362.5                | 26.8              | 19.8           | -90.39                      | 1,110.4                                 | -1,645.7      | 1,091.9                    | 1,050.6                     | 41.29                        | 26.444               | CC, ES             |        |
| 8,800.0  | 7,378.0                | 7,452.5                | 7,362.6                | 27.4              | 19.8           | -90.40                      | 1,110.4                                 | -1,645.7      | 1,092.6                    | 1,050.7                     | 41.89                        | 26.081               |                    |        |
| 8,900.0  | 7,378.0                | 7,452.9                | 7,363.1                | 28.8              | 19.8           | -90.42                      | 1,110.4                                 | -1,645.7      | 1,100.9                    | 1,057.5                     | 43.41                        | 25.360               |                    |        |
| 9,000.0  | 7,378.0                | 7,453.3                | 7,363.5                | 30.3              | 19.8           | -90.45                      | 1,110.4                                 | -1,645.7      | 1,118.1                    | 1,073.1                     | 44.96                        | 24.871               |                    |        |
| 9,100.0  | 7,378.0                | 7,453.8                | 7,363.9                | 31.7              | 19.8           | -90.47                      | 1,110.4                                 | -1,645.7      | 1,143.8                    | 1,097.3                     | 46.52                        | 24.585               |                    |        |
| 9,200.0  | 7,378.0                | 7,454.2                | 7,364.4                | 33.3              | 19.8           | -90.49                      | 1,110.5                                 | -1,645.7      | 1,177.4                    | 1,129.3                     | 48.11                        | 24.474               |                    |        |
| 9,246.2  | 7,378.0                | 7,454.4                | 7,364.5                | 34.0              | 19.8           | -90.50                      | 1,110.5                                 | -1,645.7      | 1,195.5                    | 1,146.7                     | 48.85                        | 24.473               | SF                 |        |
| 9,300.0  | 7,378.0                | 7,454.6                | 7,364.8                | 34.8              | 19.8           | -90.52                      | 1,110.5                                 | -1,645.7      | 1,218.8                    | 1,169.2                     | 49.68                        | 24.535               |                    |        |
| 9,400.0  | 7,378.0                | 7,455.0                | 7,365.2                | 36.3              | 19.8           | -90.55                      | 1,110.5                                 | -1,645.7      | 1,269.5                    | 1,218.3                     | 51.20                        | 24.795               |                    |        |
| 9,503.1  | 7,378.0                | 7,455.5                | 7,365.7                | 37.9              | 19.9           | -90.59                      | 1,110.5                                 | -1,645.7      | 1,330.5                    | 1,277.7                     | 52.74                        | 25.229               |                    |        |



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 8100-Geolink MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning            |        |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |        |
| 8,100.0   | 7,378.0             | 7,292.0             | 7,292.0             | 19.0            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,309.2              | 1,280.1               | 29.08                  | 45.028            |                    |        |
| 8,200.0   | 7,378.0             | 7,292.0             | 7,292.0             | 20.0            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,215.5              | 1,185.3               | 30.17                  | 40.293            |                    |        |
| 8,300.0   | 7,378.0             | 7,292.0             | 7,292.0             | 21.0            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,122.9              | 1,091.5               | 31.36                  | 35.806            |                    |        |
| 8,400.0   | 7,378.0             | 7,292.0             | 7,292.0             | 22.2            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,031.6              | 999.0                 | 32.64                  | 31.610            |                    |        |
| 8,500.0   | 7,378.0             | 7,292.0             | 7,292.0             | 23.4            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 942.1                | 908.1                 | 33.98                  | 27.726            |                    |        |
| 8,600.0   | 7,378.0             | 7,292.0             | 7,292.0             | 24.7            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 855.0                | 819.6                 | 35.38                  | 24.166            |                    |        |
| 8,700.0   | 7,378.0             | 7,292.0             | 7,292.0             | 26.0            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 771.0                | 734.1                 | 36.83                  | 20.935            |                    |        |
| 8,800.0   | 7,378.0             | 7,292.0             | 7,292.0             | 27.4            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 691.2                | 652.9                 | 38.31                  | 18.042            |                    |        |
| 8,900.0   | 7,378.0             | 7,292.0             | 7,292.0             | 28.8            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 617.4                | 577.6                 | 39.83                  | 15.501            |                    |        |
| 9,000.0   | 7,378.0             | 7,292.0             | 7,292.0             | 30.3            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 551.9                | 510.5                 | 41.37                  | 13.339            |                    |        |
| 9,100.0   | 7,378.0             | 7,292.0             | 7,292.0             | 31.7            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 498.0                | 455.0                 | 42.94                  | 11.597            |                    |        |
| 9,200.0   | 7,378.0             | 7,292.0             | 7,292.0             | 33.3            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 459.7                | 415.2                 | 44.53                  | 10.325            |                    |        |
| 9,246.2   | 7,378.0             | 7,292.0             | 7,292.0             | 34.0            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 448.6                | 403.3                 | 45.27                  | 9.909             |                    |        |
| 9,300.0   | 7,378.0             | 7,292.0             | 7,292.0             | 34.8            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 441.8                | 395.9                 | 45.97                  | 9.612             |                    |        |
| 9,321.4   | 7,378.0             | 7,292.0             | 7,292.0             | 35.1            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 441.2                | 395.0                 | 46.24                  | 9.541 CC, ES      |                    |        |
| 9,400.0   | 7,378.0             | 7,292.0             | 7,292.0             | 36.3            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 449.2                | 402.0                 | 47.25                  | 9.508 SF          |                    |        |
| 9,503.1   | 7,378.0             | 7,292.0             | 7,292.0             | 37.9            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 482.5                | 433.9                 | 48.55                  | 9.938             |                    |        |
| 9,600.0   | 7,378.0             | 7,292.0             | 7,292.0             | 39.4            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 531.7                | 481.6                 | 50.13                  | 10.607            |                    |        |
| 9,700.0   | 7,378.0             | 7,292.0             | 7,292.0             | 41.0            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 595.0                | 543.2                 | 51.77                  | 11.492            |                    |        |
| 9,800.0   | 7,378.0             | 7,292.0             | 7,292.0             | 42.5            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 667.3                | 613.9                 | 53.43                  | 12.489            |                    |        |
| 9,900.0   | 7,378.0             | 7,292.0             | 7,292.0             | 44.1            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 746.0                | 690.9                 | 55.09                  | 13.541            |                    |        |
| 10,000.0  | 7,378.0             | 7,292.0             | 7,292.0             | 45.7            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 829.4                | 772.6                 | 56.76                  | 14.611            |                    |        |
| 10,100.0  | 7,378.0             | 7,292.0             | 7,292.0             | 47.4            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 916.0                | 857.6                 | 58.44                  | 15.674            |                    |        |
| 10,200.0  | 7,378.0             | 7,292.0             | 7,292.0             | 49.0            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,005.2              | 945.1                 | 60.13                  | 16.718            |                    |        |
| 10,300.0  | 7,378.0             | 7,292.0             | 7,292.0             | 50.6            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,096.2              | 1,034.4               | 61.82                  | 17.734            |                    |        |
| 10,400.0  | 7,378.0             | 7,292.0             | 7,292.0             | 52.3            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,188.7              | 1,125.2               | 63.51                  | 18.717            |                    |        |
| 10,500.0  | 7,378.0             | 7,292.0             | 7,292.0             | 53.9            | 12.7        | -90.00                | 1,684.1                           | -994.0     | 1,282.3              | 1,217.1               | 65.21                  | 19.665            |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|---------|
| Survey Program: 119-MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                           | Warning |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor         |         |
| 0.0  | 0.0                 | 7.8                 | 7.8                 | 0.0             | 0.0         | -140.93               | -769.0                            | -624.2     | 990.4                |                       |                        |                           |         |
| 100.0  | 100.0               | 105.7               | 105.7               | 0.2             | 0.2         | -140.86               | -768.3                            | -625.2     | 990.5                | 990.2                 | 0.32                   | 3,132.321                 |         |
| 200.0  | 200.0               | 206.6               | 206.5               | 0.3             | 0.3         | -140.71               | -766.8                            | -627.4     | 990.8                | 990.1                 | 0.67                   | 1,484.647                 |         |
| 300.0  | 300.0               | 308.1               | 308.0               | 0.5             | 0.5         | -140.53               | -764.9                            | -629.8     | 990.8                | 989.8                 | 1.02                   | 968.313                   |         |
| 400.0  | 400.0               | 404.3               | 404.2               | 0.7             | 0.7         | -140.34               | -763.0                            | -632.5     | 991.0                | 989.7                 | 1.37                   | 722.362                   |         |
| 450.0  | 450.0               | 454.3               | 454.1               | 0.8             | 0.8         | -140.23               | -761.9                            | -634.0     | 991.2                | 989.7                 | 1.55                   | 639.552                   |         |
| 500.0  | 500.0               | 505.3               | 505.1               | 0.9             | 0.9         | -6.79                 | -760.8                            | -635.6     | 991.2                | 989.5                 | 1.75                   | 566.919                   |         |
| 600.0  | 600.0               | 609.1               | 608.8               | 1.0             | 1.1         | -6.58                 | -758.5                            | -638.5     | 989.5                | 987.4                 | 2.11                   | 468.032                   |         |
| 700.0  | 699.9               | 710.3               | 710.0               | 1.2             | 1.3         | -6.40                 | -756.1                            | -641.2     | 985.9                | 983.5                 | 2.48                   | 398.147                   |         |
| 800.0  | 799.8               | 844.3               | 843.7               | 1.4             | 1.5         | -6.04                 | -749.8                            | -645.2     | 979.2                | 976.3                 | 2.92                   | 335.538                   |         |
| 900.0  | 899.5               | 952.0               | 950.9               | 1.6             | 1.8         | -5.53                 | -740.0                            | -649.4     | 967.9                | 964.6                 | 3.33                   | 290.403                   |         |
| 1,000.0  | 999.2               | 1,058.6             | 1,056.8             | 1.8             | 2.1         | -4.94                 | -729.0                            | -654.2     | 954.5                | 950.8                 | 3.75                   | 254.295                   |         |
| 1,108.4  | 1,106.9             | 1,184.8             | 1,181.9             | 2.1             | 2.4         | -4.09                 | -713.3                            | -660.4     | 936.8                | 932.5                 | 4.27                   | 219.539                   |         |
| 1,200.0  | 1,197.9             | 1,280.8             | 1,276.5             | 2.3             | 2.7         | -3.23                 | -698.6                            | -666.3     | 919.9                | 915.1                 | 4.71                   | 195.236                   |         |
| 1,300.0  | 1,297.3             | 1,381.6             | 1,375.5             | 2.5             | 3.0         | -2.15                 | -680.8                            | -673.2     | 900.5                | 895.3                 | 5.22                   | 172.660                   |         |
| 1,400.0  | 1,396.6             | 1,483.1             | 1,474.7             | 2.8             | 3.4         | -0.87                 | -661.3                            | -681.7     | 881.3                | 875.5                 | 5.76                   | 153.124                   |         |
| 1,500.0  | 1,496.0             | 1,572.8             | 1,562.3             | 3.0             | 3.8         | 0.36                  | -643.4                            | -689.7     | 862.5                | 856.2                 | 6.27                   | 137.526                   |         |
| 1,600.0  | 1,595.3             | 1,670.3             | 1,657.2             | 3.3             | 4.2         | 1.84                  | -623.4                            | -699.6     | 844.7                | 837.8                 | 6.85                   | 123.339                   |         |
| 1,700.0  | 1,694.7             | 1,772.4             | 1,756.1             | 3.5             | 4.6         | 3.58                  | -600.7                            | -710.6     | 826.8                | 819.3                 | 7.48                   | 110.577                   |         |
| 1,800.0  | 1,794.0             | 1,869.0             | 1,849.6             | 3.8             | 5.1         | 5.32                  | -578.7                            | -721.0     | 809.2                | 801.1                 | 8.09                   | 100.019                   |         |
| 1,900.0  | 1,893.3             | 1,963.4             | 1,941.0             | 4.0             | 5.5         | 7.08                  | -557.3                            | -731.0     | 792.4                | 783.7                 | 8.70                   | 91.032                    |         |
| 2,000.0  | 1,992.7             | 2,061.0             | 2,035.2             | 4.3             | 5.9         | 9.03                  | -534.4                            | -741.7     | 776.4                | 767.0                 | 9.37                   | 82.886                    |         |
| 2,100.0  | 2,092.0             | 2,160.9             | 2,131.5             | 4.6             | 6.4         | 11.19                 | -509.9                            | -752.9     | 760.8                | 750.8                 | 10.05                  | 75.683                    |         |
| 2,200.0  | 2,191.4             | 2,253.3             | 2,220.7             | 4.8             | 6.8         | 13.17                 | -488.1                            | -762.5     | 746.2                | 735.5                 | 10.67                  | 69.904                    |         |
| 2,300.0  | 2,290.7             | 2,356.1             | 2,320.5             | 5.1             | 7.3         | 15.34                 | -464.9                            | -772.2     | 732.2                | 720.8                 | 11.35                  | 64.520                    |         |
| 2,400.0  | 2,390.0             | 2,459.6             | 2,420.5             | 5.3             | 7.8         | 17.69                 | -440.1                            | -781.3     | 718.1                | 706.1                 | 12.06                  | 59.561                    |         |
| 2,500.0  | 2,489.4             | 2,557.6             | 2,514.9             | 5.6             | 8.3         | 20.09                 | -415.3                            | -789.5     | 704.3                | 691.5                 | 12.75                  | 55.237                    |         |
| 2,600.0  | 2,588.7             | 2,644.6             | 2,598.8             | 5.9             | 8.7         | 22.28                 | -393.6                            | -797.3     | 692.2                | 678.8                 | 13.39                  | 51.708                    |         |
| 2,700.0  | 2,688.1             | 2,735.8             | 2,686.7             | 6.1             | 9.2         | 24.67                 | -370.7                            | -806.1     | 682.2                | 668.2                 | 14.05                  | 48.544                    |         |
| 2,800.0  | 2,787.4             | 2,828.4             | 2,775.8             | 6.4             | 9.6         | 27.15                 | -347.6                            | -815.4     | 674.0                | 659.3                 | 14.72                  | 45.787                    |         |
| 2,900.0  | 2,886.7             | 2,920.6             | 2,864.9             | 6.7             | 10.1        | 29.60                 | -325.5                            | -824.7     | 667.7                | 652.3                 | 15.37                  | 43.450                    |         |
| 3,000.0  | 2,986.1             | 3,009.0             | 2,950.2             | 6.9             | 10.5        | 32.01                 | -304.0                            | -834.0     | 663.0                | 647.0                 | 16.00                  | 41.441                    |         |
| 3,100.0  | 3,085.4             | 3,096.4             | 3,034.1             | 7.2             | 10.9        | 34.48                 | -282.2                            | -844.3     | 661.0                | 644.4                 | 16.62                  | 39.766                    |         |
| 3,117.3  | 3,102.6             | 3,111.3             | 3,048.4             | 7.2             | 11.0        | 34.90                 | -278.6                            | -846.2     | 661.0                | 644.2                 | 16.73                  | 39.514                    |         |
| 3,200.0  | 3,184.8             | 3,184.1             | 3,118.4             | 7.5             | 11.4        | 36.94                 | -260.8                            | -855.8     | 661.9                | 644.6                 | 17.22                  | 38.428                    |         |
| 3,300.0  | 3,284.1             | 3,281.3             | 3,212.1             | 7.7             | 11.9        | 39.54                 | -238.4                            | -868.9     | 664.7                | 646.9                 | 17.83                  | 37.290                    |         |
| 3,400.0  | 3,383.4             | 3,386.6             | 3,313.9             | 8.0             | 12.4        | 42.25                 | -215.0                            | -881.8     | 667.8                | 649.4                 | 18.43                  | 36.234                    |         |
| 3,500.0  | 3,482.8             | 3,476.9             | 3,401.4             | 8.2             | 12.8        | 44.53                 | -195.2                            | -892.7     | 672.0                | 653.1                 | 18.95                  | 35.467                    |         |
| 3,600.0  | 3,582.1             | 3,575.3             | 3,496.8             | 8.5             | 13.2        | 46.89                 | -174.8                            | -905.0     | 677.8                | 658.4                 | 19.46                  | 34.829                    |         |
| 3,700.0  | 3,681.5             | 3,674.7             | 3,593.5             | 8.8             | 13.7        | 49.21                 | -154.5                            | -916.5     | 683.9                | 664.0                 | 19.95                  | 34.280                    |         |
| 3,800.0  | 3,780.8             | 3,773.2             | 3,689.3             | 9.0             | 14.1        | 51.42                 | -134.9                            | -928.0     | 691.0                | 670.6                 | 20.42                  | 33.845                    |         |
| 3,900.0  | 3,880.1             | 3,876.3             | 3,789.6             | 9.3             | 14.5        | 53.76                 | -113.7                            | -938.9     | 698.3                | 677.4                 | 20.88                  | 33.448                    |         |
| 4,000.0  | 3,979.5             | 3,969.6             | 3,880.6             | 9.6             | 14.9        | 55.78                 | -95.3                             | -948.5     | 706.2                | 684.9                 | 21.29                  | 33.176                    |         |
| 4,100.0  | 4,078.8             | 4,055.5             | 3,964.2             | 9.8             | 15.3        | 57.60                 | -78.0                             | -958.3     | 716.2                | 694.5                 | 21.68                  | 33.038                    |         |
| 4,200.0  | 4,178.2             | 4,142.0             | 4,048.0             | 10.1            | 15.7        | 59.46                 | -59.5                             | -969.0     | 728.4                | 706.3                 | 22.06                  | 33.019                    |         |
| 4,300.0  | 4,277.5             | 4,250.6             | 4,153.1             | 10.4            | 16.2        | 61.76                 | -35.6                             | -982.5     | 741.9                | 719.5                 | 22.45                  | 33.049                    |         |
| 4,400.0  | 4,376.8             | 4,357.2             | 4,257.0             | 10.6            | 16.7        | 63.77                 | -15.2                             | -994.0     | 753.7                | 730.9                 | 22.80                  | 33.058                    |         |
| 4,500.0  | 4,476.2             | 4,447.2             | 4,344.9             | 10.9            | 17.1        | 65.37                 | 1.7                               | -1,004.2   | 766.6                | 743.4                 | 23.13                  | 33.148                    |         |
| 4,600.0  | 4,575.5             | 4,531.5             | 4,426.9             | 11.2            | 17.4        | 66.85                 | 18.1                              | -1,014.3   | 781.1                | 757.6                 | 23.44                  | 33.320                    |         |
| 4,700.0  | 4,674.9             | 4,610.8             | 4,503.7             | 11.4            | 17.8        | 68.26                 | 35.0                              | -1,024.8   | 798.2                | 774.5                 | 23.76                  | 33.594                    |         |
| 4,800.0  | 4,774.2             | 4,714.2             | 4,603.2             | 11.7            | 18.3        | 70.23                 | 59.8                              | -1,038.1   | 817.0                | 793.0                 | 24.08                  | 33.923                    |         |
| 4,900.0  | 4,873.5             | 4,830.8             | 4,716.0             | 12.0            | 18.9        | 72.33                 | 86.4                              | -1,050.4   | 834.0                | 809.6                 | 24.40                  | 34.185                    |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 119-MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning                   |  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |  |
| 5,000.0  | 4,972.9             | 4,913.6             | 4,796.1             | 12.2            | 19.3        | 73.82                 | 105.8                             | -1,058.6   | 851.6                | 826.9                 | 24.69                  | 34.486            |                           |  |
| 5,100.0  | 5,072.2             | 4,992.4             | 4,871.9             | 12.5            | 19.7        | 75.24                 | 125.6                             | -1,066.9   | 871.5                | 846.5                 | 24.98                  | 34.886            |                           |  |
| 5,200.0  | 5,171.6             | 5,082.4             | 4,958.2             | 12.7            | 20.2        | 76.82                 | 149.2                             | -1,077.4   | 893.5                | 868.3                 | 25.26                  | 35.373            |                           |  |
| 5,300.0  | 5,270.9             | 5,196.1             | 5,067.6             | 13.0            | 20.7        | 78.65                 | 177.2                             | -1,089.9   | 914.8                | 889.3                 | 25.53                  | 35.827            |                           |  |
| 5,400.0  | 5,370.3             | 5,284.0             | 5,152.4             | 13.3            | 21.2        | 79.95                 | 198.0                             | -1,099.9   | 936.5                | 910.7                 | 25.80                  | 36.302            |                           |  |
| 5,500.0  | 5,469.6             | 5,382.2             | 5,247.3             | 13.5            | 21.6        | 81.24                 | 220.0                             | -1,112.2   | 958.8                | 932.7                 | 26.06                  | 36.793            |                           |  |
| 5,600.0  | 5,568.9             | 5,479.1             | 5,341.0             | 13.8            | 22.1        | 82.40                 | 241.1                             | -1,125.0   | 981.5                | 955.2                 | 26.33                  | 37.283            |                           |  |
| 5,700.0  | 5,668.3             | 5,613.4             | 5,471.6             | 14.1            | 22.7        | 83.91                 | 268.3                             | -1,140.9   | 1,002.6              | 976.1                 | 26.59                  | 37.706            |                           |  |
| 5,800.0  | 5,767.6             | 5,720.9             | 5,576.7             | 14.3            | 23.1        | 85.02                 | 287.7                             | -1,152.0   | 1,021.5              | 994.7                 | 26.86                  | 38.031            |                           |  |
| 5,900.0  | 5,867.0             | 5,834.3             | 5,687.9             | 14.6            | 23.5        | 86.14                 | 306.8                             | -1,162.6   | 1,039.1              | 1,012.0               | 27.14                  | 38.294            |                           |  |
| 6,000.0  | 5,966.3             | 5,959.0             | 5,810.8             | 14.9            | 24.0        | 87.32                 | 326.1                             | -1,172.3   | 1,054.9              | 1,027.5               | 27.41                  | 38.483            |                           |  |
| 6,100.0  | 6,065.6             | 6,096.1             | 5,946.5             | 15.1            | 24.3        | 88.48                 | 343.1                             | -1,181.2   | 1,067.9              | 1,040.2               | 27.70                  | 38.552            |                           |  |
| 6,200.0  | 6,165.0             | 6,223.4             | 6,073.0             | 15.4            | 24.6        | 89.46                 | 355.9                             | -1,188.5   | 1,079.2              | 1,051.2               | 27.99                  | 38.556            |                           |  |
| 6,300.0  | 6,264.3             | 6,362.6             | 6,211.8             | 15.7            | 24.9        | 90.43                 | 364.6                             | -1,193.4   | 1,086.0              | 1,057.7               | 28.30                  | 38.376            |                           |  |
| 6,400.0  | 6,363.7             | 6,491.4             | 6,340.5             | 15.9            | 25.0        | 91.26                 | 369.3                             | -1,196.4   | 1,090.5              | 1,061.9               | 28.62                  | 38.108            |                           |  |
| 6,500.0  | 6,463.0             | 6,595.4             | 6,444.4             | 16.2            | 25.2        | 91.91                 | 371.7                             | -1,197.9   | 1,093.5              | 1,064.6               | 28.93                  | 37.796            |                           |  |
| 6,600.0  | 6,562.3             | 6,699.3             | 6,548.3             | 16.5            | 25.3        | 92.55                 | 373.6                             | -1,199.2   | 1,096.2              | 1,066.9               | 29.25                  | 37.472            |                           |  |
| 6,700.0  | 6,661.7             | 6,803.6             | 6,652.6             | 16.7            | 25.4        | 93.19                 | 375.2                             | -1,200.3   | 1,098.6              | 1,069.0               | 29.58                  | 37.142            |                           |  |
| 6,801.1  | 6,762.1             | 6,905.4             | 6,754.4             | 17.0            | 25.5        | 93.80                 | 376.3                             | -1,201.1   | 1,100.7              | 1,070.8               | 29.91                  | 36.798            |                           |  |
| 6,850.0  | 6,810.8             | 6,952.9             | 6,801.9             | 17.1            | 25.5        | 94.37                 | 376.9                             | -1,201.5   | 1,100.2              | 1,070.1               | 30.05                  | 36.609            |                           |  |
| 6,900.0  | 6,860.5             | 7,005.0             | 6,854.0             | 17.2            | 25.6        | 94.94                 | 377.4                             | -1,202.0   | 1,096.3              | 1,066.2               | 30.15                  | 36.362            |                           |  |
| 6,950.0  | 6,909.9             | 7,056.7             | 6,905.7             | 17.2            | 25.6        | -14.87                | 377.9                             | -1,202.4   | 1,089.0              | 1,058.8               | 30.20                  | 36.064            |                           |  |
| 7,000.0  | 6,958.4             | 7,107.6             | 6,956.6             | 17.2            | 25.7        | -23.23                | 378.2                             | -1,202.8   | 1,078.3              | 1,048.1               | 30.20                  | 35.703            |                           |  |
| 7,050.0  | 7,005.8             | 7,156.0             | 7,005.0             | 17.1            | 25.7        | -28.58                | 378.5                             | -1,203.2   | 1,064.3              | 1,034.2               | 30.19                  | 35.255            |                           |  |
| 7,100.0  | 7,051.7             | 7,202.0             | 7,051.0             | 17.1            | 25.8        | -32.83                | 378.7                             | -1,203.5   | 1,047.4              | 1,017.2               | 30.20                  | 34.682            |                           |  |
| 7,150.0  | 7,095.8             | 7,245.4             | 7,094.4             | 17.0            | 25.8        | -36.73                | 378.9                             | -1,203.9   | 1,027.6              | 997.3                 | 30.28                  | 33.940            |                           |  |
| 7,200.0  | 7,137.6             | 7,286.2             | 7,135.2             | 16.9            | 25.9        | -40.62                | 379.1                             | -1,204.2   | 1,005.3              | 974.9                 | 30.48                  | 32.987            |                           |  |
| 7,250.0  | 7,176.9             | 7,324.7             | 7,173.7             | 16.8            | 25.9        | -44.73                | 379.3                             | -1,204.6   | 980.9                | 950.0                 | 30.85                  | 31.797            |                           |  |
| 7,300.0  | 7,213.4             | 7,361.2             | 7,210.2             | 16.7            | 25.9        | -49.17                | 379.6                             | -1,205.0   | 954.5                | 923.1                 | 31.43                  | 30.373            |                           |  |
| 7,350.0  | 7,246.8             | 7,394.7             | 7,243.7             | 16.6            | 26.0        | -53.95                | 379.8                             | -1,205.3   | 926.7                | 894.5                 | 32.21                  | 28.774            |                           |  |
| 7,400.0  | 7,276.9             | 7,424.8             | 7,273.7             | 16.5            | 26.0        | -59.03                | 380.0                             | -1,205.6   | 897.8                | 864.6                 | 33.14                  | 27.088            |                           |  |
| 7,450.0  | 7,303.4             | 7,451.3             | 7,300.2             | 16.4            | 26.0        | -64.29                | 380.2                             | -1,205.9   | 868.3                | 834.1                 | 34.16                  | 25.417            |                           |  |
| 7,500.0  | 7,326.1             | 7,474.1             | 7,323.1             | 16.4            | 26.1        | -69.57                | 380.5                             | -1,206.1   | 838.8                | 803.6                 | 35.16                  | 23.853            |                           |  |
| 7,550.0  | 7,344.8             | 7,493.1             | 7,342.1             | 16.4            | 26.1        | -74.65                | 380.6                             | -1,206.3   | 809.8                | 773.7                 | 36.05                  | 22.463            |                           |  |
| 7,600.0  | 7,359.5             | 7,508.2             | 7,357.1             | 16.4            | 26.1        | -79.34                | 380.8                             | -1,206.4   | 781.8                | 745.1                 | 36.74                  | 21.277            |                           |  |
| 7,650.0  | 7,370.0             | 7,519.0             | 7,368.0             | 16.5            | 26.1        | -83.43                | 380.9                             | -1,206.5   | 755.5                | 718.3                 | 37.23                  | 20.293            |                           |  |
| 7,700.0  | 7,376.1             | 7,525.7             | 7,374.7             | 16.6            | 26.1        | -86.81                | 381.0                             | -1,206.5   | 731.5                | 694.0                 | 37.53                  | 19.489            |                           |  |
| 7,746.2  | 7,378.0             | 7,528.1             | 7,377.1             | 16.8            | 26.1        | -89.21                | 381.0                             | -1,206.6   | 711.7                | 674.0                 | 37.70                  | 18.881            |                           |  |
| 7,800.0  | 7,378.0             | 7,528.8             | 7,377.7             | 17.0            | 26.1        | -89.27                | 381.0                             | -1,206.6   | 692.1                | 654.1                 | 37.96                  | 18.230            |                           |  |
| 7,900.0  | 7,378.0             | 7,530.0             | 7,378.9             | 17.5            | 26.1        | -89.38                | 381.1                             | -1,206.6   | 665.6                | 626.9                 | 38.61                  | 17.238            |                           |  |
| 8,000.0  | 7,378.0             | 7,531.2             | 7,380.1             | 18.2            | 26.1        | -89.48                | 381.1                             | -1,206.6   | 653.4                | 614.0                 | 39.43                  | 16.572            |                           |  |
| 8,030.0  | 7,378.0             | 7,531.6             | 7,380.5             | 18.4            | 26.1        | -89.52                | 381.1                             | -1,206.6   | 652.7                | 613.0                 | 39.72                  | 16.433 CC, ES     |                           |  |
| 8,100.0  | 7,378.0             | 7,532.4             | 7,381.4             | 19.0            | 26.1        | -89.59                | 381.1                             | -1,206.6   | 656.5                | 616.1                 | 40.40                  | 16.250 SF         |                           |  |
| 8,200.0  | 7,378.0             | 7,533.7             | 7,382.6             | 20.0            | 26.1        | -89.70                | 381.1                             | -1,206.6   | 674.5                | 633.0                 | 41.49                  | 16.257            |                           |  |
| 8,300.0  | 7,378.0             | 7,534.9             | 7,383.9             | 21.0            | 26.1        | -89.81                | 381.1                             | -1,206.6   | 706.4                | 663.7                 | 42.68                  | 16.549            |                           |  |
| 8,400.0  | 7,378.0             | 7,536.2             | 7,385.1             | 22.2            | 26.1        | -89.92                | 381.1                             | -1,206.6   | 750.3                | 706.3                 | 43.96                  | 17.068            |                           |  |
| 8,500.0  | 7,378.0             | 7,537.5             | 7,386.4             | 23.4            | 26.1        | -90.04                | 381.2                             | -1,206.6   | 804.3                | 759.0                 | 45.30                  | 17.755            |                           |  |
| 8,600.0  | 7,378.0             | 7,538.8             | 7,387.7             | 24.7            | 26.1        | -90.15                | 381.2                             | -1,206.7   | 866.5                | 819.8                 | 46.70                  | 18.555            |                           |  |
| 8,700.0  | 7,378.0             | 7,540.1             | 7,389.0             | 26.0            | 26.1        | -90.26                | 381.2                             | -1,206.7   | 935.3                | 887.2                 | 48.15                  | 19.426            |                           |  |
| 8,800.0  | 7,378.0             | 7,541.4             | 7,390.3             | 27.4            | 26.1        | -90.38                | 381.2                             | -1,206.7   | 1,009.4              | 959.7                 | 49.63                  | 20.337            |                           |  |
| 8,900.0  | 7,378.0             | 7,542.7             | 7,391.7             | 28.8            | 26.1        | -90.50                | 381.2                             | -1,206.7   | 1,087.6              | 1,036.4               | 51.15                  | 21.262            |                           |  |
| 9,000.0  | 7,378.0             | 7,544.1             | 7,393.0             | 30.3            | 26.1        | -90.62                | 381.2                             | -1,206.7   | 1,169.1              | 1,116.4               | 52.69                  | 22.187            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

|                         |                |                |                |                 |        |                   |                        |            |                 |                  |                        |  |  |         |  |  |  |  |  |  |  |  |  |                    |  |        |  |
|-------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|--|--|---------|--|--|--|--|--|--|--|--|--|--------------------|--|--------|--|
| Offset Design           |                |                |                |                 |        |                   |                        |            |                 |                  |                        | S32-T2N-R68W (File/Hwy 52) - RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SURVEYS |  |         |  |  |  |  |  |  |  |  |  | Offset Site Error: |  | 0.0 ft |  |
| Survey Program: 119-MWD |                |                |                |                 |        |                   |                        |            |                 |                  |                        |  |  |         |  |  |  |  |  |  |  |  |  | Offset Well Error: |  | 0.0 ft |  |
| Reference               |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                        |  |  | Warning |  |  |  |  |  |  |  |  |  |                    |  |        |  |
| Measured Depth          | 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)             |                        |  |  |         |  |  |  |  |  |  |  |  |  |                    |  |        |  |
| 9,100.0                 | 7,378.0        | 7,545.5        | 7,394.4        | 31.7            | 26.1   | -90.74            | 381.3                  | -1,206.7   | 1,253.3         | 1,199.0          | 54.26                  | 23.098   |  |         |  |  |  |  |  |  |  |  |  |                    |  |        |  |
| 9,200.0                 | 7,378.0        | 7,546.8        | 7,395.8        | 33.3            | 26.1   | -90.86            | 381.3                  | -1,206.7   | 1,339.7         | 1,283.8          | 55.85                  | 23.989   |  |         |  |  |  |  |  |  |  |  |  |                    |  |        |  |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SURVEYS |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 88-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                       | 9.6                       | 9.6                       | 0.0               | 0.0            | -141.58                     | -779.5                                  | -618.3        | 995.0                      |                             |                              |                      |                    |        |
| 100.0  | 100.0                     | 113.9                     | 113.9                     | 0.2               | 0.2            | -141.51                     | -778.6                                  | -619.0        | 994.7                      | 994.3                       | 0.33                         | 3,060.332            |                    |        |
| 196.9  | 196.9                     | 207.0                     | 207.0                     | 0.3               | 0.3            | -141.40                     | -776.9                                  | -620.3        | 994.2                      | 993.5                       | 0.66                         | 1,511.210 CC         |                    |        |
| 200.0  | 200.0                     | 207.0                     | 207.0                     | 0.3               | 0.3            | -141.40                     | -776.9                                  | -620.3        | 994.2                      | 993.5                       | 0.66                         | 1,498.903            |                    |        |
| 300.0  | 300.0                     | 300.1                     | 300.0                     | 0.5               | 0.5            | -141.21                     | -775.2                                  | -623.0        | 994.6                      | 993.6                       | 1.01                         | 987.927              |                    |        |
| 400.0  | 400.0                     | 383.5                     | 383.2                     | 0.7               | 0.7            | -140.95                     | -773.4                                  | -627.5        | 996.2                      | 994.9                       | 1.34                         | 742.342              |                    |        |
| 450.0  | 450.0                     | 424.0                     | 423.7                     | 0.8               | 0.8            | -140.80                     | -772.7                                  | -630.3        | 997.8                      | 996.3                       | 1.51                         | 659.755              |                    |        |
| 500.0  | 500.0                     | 464.6                     | 464.2                     | 0.9               | 0.9            | -7.30                       | -772.3                                  | -633.4        | 999.6                      | 997.9                       | 1.70                         | 589.316              |                    |        |
| 600.0  | 600.0                     | 545.3                     | 544.6                     | 1.0               | 1.0            | -7.00                       | -772.2                                  | -640.3        | 1,003.3                    | 1,001.2                     | 2.04                         | 492.789              |                    |        |
| 700.0  | 699.9                     | 627.9                     | 626.7                     | 1.2               | 1.2            | -6.73                       | -773.7                                  | -648.0        | 1,007.2                    | 1,004.8                     | 2.38                         | 424.044              |                    |        |
| 800.0  | 799.8                     | 721.5                     | 719.9                     | 1.4               | 1.4            | -6.48                       | -776.7                                  | -656.9        | 1,010.5                    | 1,007.8                     | 2.73                         | 370.515              |                    |        |
| 900.0  | 899.5                     | 804.0                     | 801.9                     | 1.6               | 1.6            | -6.29                       | -780.4                                  | -665.2        | 1,013.5                    | 1,010.4                     | 3.06                         | 330.913              |                    |        |
| 1,000.0  | 999.2                     | 867.0                     | 864.3                     | 1.8               | 1.8            | -6.16                       | -784.7                                  | -672.6        | 1,017.5                    | 1,014.2                     | 3.35                         | 303.504              |                    |        |
| 1,108.4  | 1,106.9                   | 973.8                     | 970.0                     | 2.1               | 2.1            | -6.11                       | -795.0                                  | -684.1        | 1,021.7                    | 1,018.0                     | 3.72                         | 274.677              |                    |        |
| 1,200.0  | 1,197.9                   | 1,047.2                   | 1,042.5                   | 2.3               | 2.3            | -6.14                       | -803.0                                  | -691.5        | 1,025.0                    | 1,021.0                     | 4.00                         | 256.158              |                    |        |
| 1,300.0  | 1,297.3                   | 1,136.2                   | 1,130.3                   | 2.5               | 2.6            | -6.12                       | -813.4                                  | -702.3        | 1,030.4                    | 1,026.1                     | 4.34                         | 237.529              |                    |        |
| 1,400.0  | 1,396.6                   | 1,254.6                   | 1,247.1                   | 2.8               | 2.9            | -6.00                       | -825.7                                  | -717.5        | 1,035.3                    | 1,030.5                     | 4.73                         | 218.932              |                    |        |
| 1,500.0  | 1,496.0                   | 1,359.8                   | 1,350.9                   | 3.0               | 3.3            | -5.91                       | -836.2                                  | -730.3        | 1,039.4                    | 1,034.3                     | 5.09                         | 204.100              |                    |        |
| 1,600.0  | 1,595.3                   | 1,463.2                   | 1,453.2                   | 3.3               | 3.6            | -5.86                       | -846.4                                  | -742.0        | 1,042.9                    | 1,037.4                     | 5.45                         | 191.376              |                    |        |
| 1,700.0  | 1,694.7                   | 1,560.0                   | 1,549.0                   | 3.5               | 3.9            | -5.85                       | -855.7                                  | -751.8        | 1,045.4                    | 1,039.6                     | 5.79                         | 180.459              |                    |        |
| 1,800.0  | 1,794.0                   | 1,653.1                   | 1,641.0                   | 3.8               | 4.2            | -5.83                       | -865.5                                  | -761.9        | 1,049.1                    | 1,043.0                     | 6.13                         | 171.137              |                    |        |
| 1,900.0  | 1,893.3                   | 1,766.3                   | 1,753.0                   | 4.0               | 4.5            | -5.86                       | -877.4                                  | -773.3        | 1,052.3                    | 1,045.8                     | 6.50                         | 161.932              |                    |        |
| 2,000.0  | 1,992.7                   | 1,867.9                   | 1,853.6                   | 4.3               | 4.8            | -5.94                       | -888.9                                  | -782.9        | 1,055.6                    | 1,048.8                     | 6.84                         | 154.239              |                    |        |
| 2,100.0  | 2,092.0                   | 1,956.3                   | 1,941.0                   | 4.6               | 5.1            | -6.03                       | -899.1                                  | -790.8        | 1,058.8                    | 1,051.7                     | 7.17                         | 147.707              |                    |        |
| 2,200.0  | 2,191.4                   | 2,069.3                   | 2,052.8                   | 4.8               | 5.4            | -6.16                       | -912.4                                  | -800.9        | 1,062.2                    | 1,054.7                     | 7.53                         | 141.009              |                    |        |
| 2,300.0  | 2,290.7                   | 2,175.9                   | 2,158.4                   | 5.1               | 5.7            | -6.28                       | -923.7                                  | -809.3        | 1,064.1                    | 1,056.2                     | 7.89                         | 134.851              |                    |        |
| 2,400.0  | 2,390.0                   | 2,264.9                   | 2,246.5                   | 5.3               | 6.0            | -6.28                       | -932.3                                  | -818.2        | 1,066.5                    | 1,058.2                     | 8.23                         | 129.641              |                    |        |
| 2,500.0  | 2,489.4                   | 2,348.0                   | 2,328.7                   | 5.6               | 6.2            | -6.22                       | -940.3                                  | -827.8        | 1,070.0                    | 1,061.4                     | 8.55                         | 125.133              |                    |        |
| 2,600.0  | 2,588.7                   | 2,439.1                   | 2,418.5                   | 5.9               | 6.5            | -6.20                       | -950.9                                  | -838.8        | 1,075.2                    | 1,066.4                     | 8.89                         | 121.004              |                    |        |
| 2,700.0  | 2,688.1                   | 2,566.3                   | 2,544.2                   | 6.1               | 6.9            | -6.21                       | -964.7                                  | -852.4        | 1,079.1                    | 1,069.8                     | 9.28                         | 116.220              |                    |        |
| 2,800.0  | 2,787.4                   | 2,665.7                   | 2,642.6                   | 6.4               | 7.2            | -6.25                       | -975.0                                  | -861.8        | 1,081.6                    | 1,072.0                     | 9.63                         | 112.294              |                    |        |
| 2,900.0  | 2,886.7                   | 2,761.8                   | 2,737.7                   | 6.7               | 7.5            | -6.30                       | -985.6                                  | -871.0        | 1,084.9                    | 1,074.9                     | 9.98                         | 108.753              |                    |        |
| 3,000.0  | 2,986.1                   | 2,869.9                   | 2,844.7                   | 6.9               | 7.8            | -6.29                       | -996.2                                  | -882.1        | 1,087.7                    | 1,077.3                     | 10.35                        | 105.116              |                    |        |
| 3,100.0  | 3,085.4                   | 2,990.0                   | 2,963.6                   | 7.2               | 8.2            | -6.13                       | -1,005.3                                | -895.8        | 1,089.5                    | 1,078.8                     | 10.74                        | 101.435              |                    |        |
| 3,200.0  | 3,184.8                   | 3,086.7                   | 3,059.6                   | 7.5               | 8.5            | -5.99                       | -1,011.5                                | -906.3        | 1,090.1                    | 1,079.0                     | 11.09                        | 98.249               |                    |        |
| 3,300.0  | 3,284.1                   | 3,185.7                   | 3,157.7                   | 7.7               | 8.7            | -5.79                       | -1,017.7                                | -918.0        | 1,091.1                    | 1,079.6                     | 11.45                        | 95.279               |                    |        |
| 3,400.0  | 3,383.4                   | 3,279.1                   | 3,250.3                   | 8.0               | 9.0            | -5.63                       | -1,023.9                                | -928.9        | 1,092.4                    | 1,080.6                     | 11.80                        | 92.601               |                    |        |
| 3,500.0  | 3,482.8                   | 3,366.9                   | 3,337.2                   | 8.2               | 9.3            | -5.52                       | -1,030.7                                | -939.1        | 1,094.5                    | 1,082.4                     | 12.13                        | 90.248               |                    |        |
| 3,600.0  | 3,582.1                   | 3,460.3                   | 3,449.5                   | 8.5               | 9.6            | -5.44                       | -1,040.4                                | -951.1        | 1,096.5                    | 1,084.0                     | 12.50                        | 87.700               |                    |        |
| 3,700.0  | 3,681.5                   | 3,578.6                   | 3,547.0                   | 8.8               | 9.9            | -5.40                       | -1,048.9                                | -961.0        | 1,098.2                    | 1,085.3                     | 12.85                        | 85.442               |                    |        |
| 3,800.0  | 3,780.8                   | 3,669.3                   | 3,636.9                   | 9.0               | 10.2           | -5.35                       | -1,056.8                                | -970.5        | 1,100.3                    | 1,087.1                     | 13.19                        | 83.428               |                    |        |
| 3,900.0  | 3,880.1                   | 3,795.7                   | 3,762.1                   | 9.3               | 10.5           | -5.30                       | -1,067.4                                | -983.0        | 1,101.7                    | 1,088.1                     | 13.59                        | 81.085               |                    |        |
| 4,000.0  | 3,979.5                   | 3,889.0                   | 3,854.8                   | 9.6               | 10.8           | -5.26                       | -1,074.5                                | -991.4        | 1,102.0                    | 1,088.1                     | 13.93                        | 79.137               |                    |        |
| 4,100.0  | 4,078.8                   | 3,975.0                   | 3,940.1                   | 9.8               | 11.0           | -5.26                       | -1,082.1                                | -999.5        | 1,103.4                    | 1,089.2                     | 14.25                        | 77.419               |                    |        |
| 4,200.0  | 4,178.2                   | 4,072.6                   | 4,036.7                   | 10.1              | 11.3           | -5.21                       | -1,090.8                                | -1,009.8      | 1,105.7                    | 1,091.1                     | 14.60                        | 75.720               |                    |        |
| 4,300.0  | 4,277.5                   | 4,168.3                   | 4,131.4                   | 10.4              | 11.6           | -5.12                       | -1,099.2                                | -1,020.9      | 1,108.6                    | 1,093.6                     | 14.95                        | 74.163               |                    |        |
| 4,400.0  | 4,376.8                   | 4,293.0                   | 4,255.1                   | 10.6              | 12.0           | -5.05                       | -1,109.4                                | -1,033.4      | 1,109.8                    | 1,094.5                     | 15.34                        | 72.342               |                    |        |
| 4,478.1  | 4,454.4                   | 4,375.0                   | 4,336.6                   | 10.8              | 12.2           | -5.04                       | -1,115.6                                | -1,040.3      | 1,109.7                    | 1,094.1                     | 15.62                        | 71.034               |                    |        |
| 4,500.0  | 4,476.2                   | 4,392.0                   | 4,353.4                   | 10.9              | 12.2           | -5.04                       | -1,116.9                                | -1,041.7      | 1,109.7                    | 1,094.0                     | 15.69                        | 70.727               |                    |        |
| 4,600.0  | 4,575.5                   | 4,471.1                   | 4,431.8                   | 11.2              | 12.5           | -5.05                       | -1,124.2                                | -1,048.8      | 1,111.1                    | 1,095.1                     | 16.00                        | 69.432               |                    |        |
| 4,700.0  | 4,674.9                   | 4,554.9                   | 4,514.9                   | 11.4              | 12.7           | -5.09                       | -1,133.0                                | -1,056.9      | 1,114.1                    | 1,097.7                     | 16.32                        | 68.247               |                    |        |
| 4,800.0  | 4,774.2                   | 4,665.0                   | 4,623.7                   | 11.7              | 13.1           | -5.14                       | -1,145.4                                | -1,068.0      | 1,117.8                    | 1,101.2                     | 16.69                        | 66.966               |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SURVEYS |                        |                        |                        |                   |                |                             |   |               |                            |                             |                     |                      | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|---------------------|----------------------|--------------------|--------|
| Survey Program: 88-MWD   |                        |                        |                        |                   |                |                             |   |               |                            |                             |                     |                      | Offset Well Error: | 0.0 ft |
| Reference  |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | Total               |                      | 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 | Separation<br>Factor |                    |        |
| 4,900.0  | 4,873.5                | 4,783.7                | 4,741.2                | 12.0              | 13.4           | -5.07                       | -1,155.5                                | -1,080.5      | 1,119.7                    | 1,102.6                     | 17.08               | 65.557               |                    |        |
| 5,000.0  | 4,972.9                | 4,868.7                | 4,825.4                | 12.2              | 13.7           | -4.94                       | -1,161.6                                | -1,090.4      | 1,121.5                    | 1,104.1                     | 17.41               | 64.425               |                    |        |
| 5,100.0  | 5,072.2                | 4,971.5                | 4,927.2                | 12.5              | 14.0           | -4.80                       | -1,170.0                                | -1,102.9      | 1,124.3                    | 1,106.5                     | 17.76               | 63.289               |                    |        |
| 5,200.0  | 5,171.6                | 5,082.8                | 5,037.4                | 12.7              | 14.3           | -4.68                       | -1,178.5                                | -1,115.1      | 1,125.9                    | 1,107.7                     | 18.14               | 62.078               |                    |        |
| 5,300.0  | 5,270.9                | 5,182.8                | 5,136.6                | 13.0              | 14.6           | -4.60                       | -1,186.4                                | -1,125.5      | 1,127.2                    | 1,108.7                     | 18.49               | 60.975               |                    |        |
| 5,400.0  | 5,370.3                | 5,297.0                | 5,249.9                | 13.3              | 14.9           | -4.56                       | -1,195.4                                | -1,136.1      | 1,127.9                    | 1,109.1                     | 18.86               | 59.801               |                    |        |
| 5,451.2  | 5,421.1                | 5,348.6                | 5,301.2                | 13.4              | 15.0           | -4.56                       | -1,199.4                                | -1,140.4      | 1,127.9                    | 1,108.9                     | 19.04               | 59.236               |                    |        |
| 5,500.0  | 5,469.6                | 5,391.9                | 5,344.2                | 13.5              | 15.2           | -4.57                       | -1,203.0                                | -1,144.0      | 1,128.0                    | 1,108.8                     | 19.20               | 58.746               |                    |        |
| 5,600.0  | 5,568.9                | 5,488.8                | 5,440.4                | 13.8              | 15.4           | -4.58                       | -1,211.4                                | -1,152.4      | 1,128.8                    | 1,109.2                     | 19.55               | 57.746               |                    |        |
| 5,700.0  | 5,668.3                | 5,612.3                | 5,563.1                | 14.1              | 15.7           | -4.57                       | -1,221.0                                | -1,162.8      | 1,128.9                    | 1,108.9                     | 19.94               | 56.617               |                    |        |
| 5,800.0  | 5,767.6                | 5,743.6                | 5,693.9                | 14.3              | 16.0           | -4.53                       | -1,227.8                                | -1,171.7      | 1,125.7                    | 1,105.3                     | 20.34               | 55.332               |                    |        |
| 5,900.0  | 5,867.0                | 5,857.7                | 5,807.7                | 14.6              | 16.3           | -4.50                       | -1,232.4                                | -1,178.0      | 1,121.0                    | 1,100.3                     | 20.72               | 54.105               |                    |        |
| 6,000.0  | 5,966.3                | 5,970.3                | 5,920.2                | 14.9              | 16.5           | -4.48                       | -1,236.2                                | -1,183.4      | 1,115.3                    | 1,094.2                     | 21.09               | 52.884               |                    |        |
| 6,100.0  | 6,065.6                | 6,097.9                | 6,047.7                | 15.1              | 16.6           | -4.56                       | -1,239.8                                | -1,186.2      | 1,107.3                    | 1,085.8                     | 21.49               | 51.532               |                    |        |
| 6,200.0  | 6,165.0                | 6,212.6                | 6,162.3                | 15.4              | 16.8           | -4.58                       | -1,240.9                                | -1,187.9      | 1,097.6                    | 1,075.7                     | 21.86               | 50.201               |                    |        |
| 6,300.0  | 6,264.3                | 6,326.6                | 6,276.3                | 15.7              | 16.9           | -4.59                       | -1,240.5                                | -1,188.9      | 1,086.5                    | 1,064.3                     | 22.24               | 48.856               |                    |        |
| 6,400.0  | 6,363.7                | 6,432.2                | 6,381.8                | 15.9              | 17.0           | -4.56                       | -1,239.2                                | -1,189.5      | 1,074.5                    | 1,051.9                     | 22.60               | 47.549               |                    |        |
| 6,500.0  | 6,463.0                | 6,538.0                | 6,487.7                | 16.2              | 17.1           | -4.54                       | -1,237.3                                | -1,189.7      | 1,061.9                    | 1,038.9                     | 22.96               | 46.253               |                    |        |
| 6,600.0  | 6,562.3                | 6,639.1                | 6,588.8                | 16.5              | 17.2           | -4.53                       | -1,235.3                                | -1,189.5      | 1,048.9                    | 1,025.6                     | 23.31               | 44.998               |                    |        |
| 6,700.0  | 6,661.7                | 6,739.1                | 6,688.8                | 16.7              | 17.3           | -4.52                       | -1,233.3                                | -1,189.2      | 1,035.7                    | 1,012.1                     | 23.66               | 43.777               |                    |        |
| 6,801.1  | 6,762.1                | 6,840.2                | 6,789.8                | 17.0              | 17.4           | -4.50                       | -1,231.2                                | -1,188.8      | 1,022.4                    | 998.4                       | 24.01               | 42.579               |                    |        |
| 6,850.0  | 6,810.8                | 6,889.3                | 6,838.9                | 17.1              | 17.5           | -52.53                      | -1,230.2                                | -1,188.5      | 1,017.5                    | 993.3                       | 24.19               | 42.070               |                    |        |
| 6,900.0  | 6,860.5                | 6,937.9                | 6,887.5                | 17.2              | 17.5           | -96.57                      | -1,229.3                                | -1,188.2      | 1,015.6                    | 991.4                       | 24.28               | 41.830               |                    |        |
| 6,902.5  | 6,863.0                | 6,940.2                | 6,889.8                | 17.2              | 17.5           | -97.85                      | -1,229.3                                | -1,188.2      | 1,015.6                    | 991.3                       | 24.28               | 41.825 ES, SF        |                    |        |
| 6,950.0  | 6,909.9                | 6,986.0                | 6,935.6                | 17.2              | 17.6           | -113.74                     | -1,228.5                                | -1,187.9      | 1,017.2                    | 992.9                       | 24.29               | 41.871               |                    |        |
| 7,000.0  | 6,958.4                | 7,033.2                | 6,982.8                | 17.2              | 17.6           | -121.39                     | -1,227.9                                | -1,187.5      | 1,022.1                    | 997.9                       | 24.22               | 42.193               |                    |        |
| 7,050.0  | 7,005.8                | 7,077.9                | 7,027.4                | 17.1              | 17.7           | -125.51                     | -1,227.4                                | -1,187.1      | 1,030.5                    | 1,006.4                     | 24.08               | 42.798               |                    |        |
| 7,100.0  | 7,051.7                | 7,116.8                | 7,066.4                | 17.1              | 17.7           | -127.86                     | -1,227.1                                | -1,186.9      | 1,042.6                    | 1,018.7                     | 23.86               | 43.693               |                    |        |
| 7,150.0  | 7,095.8                | 7,154.1                | 7,103.7                | 17.0              | 17.8           | -129.21                     | -1,227.0                                | -1,186.9      | 1,058.4                    | 1,034.8                     | 23.60               | 44.840               |                    |        |
| 7,200.0  | 7,137.6                | 7,196.1                | 7,145.7                | 16.9              | 17.8           | -130.02                     | -1,226.9                                | -1,187.1      | 1,077.7                    | 1,054.4                     | 23.34               | 46.179               |                    |        |
| 7,250.0  | 7,176.9                | 7,237.7                | 7,187.3                | 16.8              | 17.9           | -130.33                     | -1,226.8                                | -1,187.2      | 1,100.3                    | 1,077.2                     | 23.09               | 47.664               |                    |        |
| 7,300.0  | 7,213.4                | 7,275.5                | 7,225.1                | 16.7              | 17.9           | -130.12                     | -1,226.6                                | -1,187.3      | 1,126.1                    | 1,103.2                     | 22.88               | 49.208               |                    |        |
| 7,350.0  | 7,246.8                | 7,309.3                | 7,258.8                | 16.6              | 18.0           | -129.35                     | -1,226.5                                | -1,187.4      | 1,155.0                    | 1,132.2                     | 22.79               | 50.681               |                    |        |
| 7,400.0  | 7,276.9                | 7,339.7                | 7,289.3                | 16.5              | 18.0           | -128.01                     | -1,226.3                                | -1,187.5      | 1,186.8                    | 1,163.9                     | 22.86               | 51.923               |                    |        |
| 7,450.0  | 7,303.4                | 7,365.3                | 7,314.9                | 16.4              | 18.0           | -125.93                     | -1,226.2                                | -1,187.6      | 1,221.4                    | 1,198.2                     | 23.15               | 52.755               |                    |        |
| 7,500.0  | 7,326.1                | 7,386.3                | 7,335.9                | 16.4              | 18.1           | -122.97                     | -1,226.1                                | -1,187.7      | 1,258.5                    | 1,234.8                     | 23.72               | 53.047               |                    |        |
| 7,550.0  | 7,344.8                | 7,403.6                | 7,353.2                | 16.4              | 18.1           | -118.99                     | -1,226.0                                | -1,187.8      | 1,297.8                    | 1,273.2                     | 24.59               | 52.788               |                    |        |
| 7,600.0  | 7,359.5                | 7,417.1                | 7,366.6                | 16.4              | 18.1           | -113.77                     | -1,226.0                                | -1,187.9      | 1,339.1                    | 1,313.4                     | 25.70               | 52.105               |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 8140-MWD  |                        |                        |                        |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference   |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                              |                      |                    |        |
| Measured Depth<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 | Warning            |        |
| 0.0   | 0.0                    | 0.0                    | 0.0                    | 0.0               | 0.0            | 70.09                       | 154.1                                   | 425.5         | 462.9                      |                             |                              |                      |                    |        |
| 100.0   | 100.0                  | 3.0                    | 3.0                    | 0.2               | 0.0            | 70.09                       | 154.1                                   | 425.5         | 452.6                      | 452.4                       | 0.16                         | 2,877.502            |                    |        |
| 200.0   | 200.0                  | 103.0                  | 103.0                  | 0.3               | 0.2            | 70.09                       | 154.1                                   | 425.5         | 452.6                      | 452.1                       | 0.51                         | 893.806              |                    |        |
| 300.0   | 300.0                  | 203.0                  | 203.0                  | 0.5               | 0.4            | 70.09                       | 154.1                                   | 425.5         | 452.6                      | 451.7                       | 0.86                         | 529.073              |                    |        |
| 400.0   | 400.0                  | 303.0                  | 303.0                  | 0.7               | 0.5            | 70.09                       | 154.1                                   | 425.5         | 452.6                      | 451.4                       | 1.20                         | 375.744              |                    |        |
| 450.0   | 450.0                  | 353.0                  | 353.0                  | 0.8               | 0.6            | 70.09                       | 154.1                                   | 425.5         | 452.6                      | 451.2                       | 1.38                         | 328.189 CC, ES       |                    |        |
| 500.0   | 500.0                  | 403.0                  | 403.0                  | 0.9               | 0.7            | -156.58                     | 154.1                                   | 425.5         | 452.8                      | 451.2                       | 1.55                         | 291.452              |                    |        |
| 600.0   | 600.0                  | 503.0                  | 503.0                  | 1.0               | 0.9            | -156.66                     | 154.1                                   | 425.5         | 454.4                      | 452.5                       | 1.90                         | 238.836              |                    |        |
| 700.0   | 699.9                  | 602.9                  | 602.9                  | 1.2               | 1.1            | -156.82                     | 154.1                                   | 425.5         | 457.6                      | 455.3                       | 2.25                         | 203.226              |                    |        |
| 800.0   | 799.8                  | 702.8                  | 702.8                  | 1.4               | 1.2            | -157.06                     | 154.1                                   | 425.5         | 462.4                      | 459.8                       | 2.60                         | 177.762              |                    |        |
| 900.0   | 899.5                  | 802.5                  | 802.5                  | 1.6               | 1.4            | -157.36                     | 154.1                                   | 425.5         | 468.8                      | 465.9                       | 2.95                         | 158.837              |                    |        |
| 1,000.0   | 999.2                  | 902.2                  | 902.2                  | 1.8               | 1.6            | -157.74                     | 154.1                                   | 425.5         | 476.9                      | 473.6                       | 3.30                         | 144.380              |                    |        |
| 1,108.4   | 1,106.9                | 1,009.9                | 1,009.9                | 2.1               | 1.8            | -158.20                     | 154.1                                   | 425.5         | 487.5                      | 483.8                       | 3.69                         | 132.284              |                    |        |
| 1,200.0   | 1,197.9                | 1,100.9                | 1,100.9                | 2.3               | 1.9            | -158.65                     | 154.1                                   | 425.5         | 497.3                      | 493.2                       | 4.01                         | 123.965              |                    |        |
| 1,300.0   | 1,297.3                | 1,200.3                | 1,200.3                | 2.5               | 2.1            | -159.12                     | 154.1                                   | 425.5         | 508.0                      | 503.6                       | 4.37                         | 116.310              |                    |        |
| 1,400.0   | 1,396.6                | 1,299.6                | 1,299.6                | 2.8               | 2.3            | -159.57                     | 154.1                                   | 425.5         | 518.7                      | 514.0                       | 4.72                         | 109.817              |                    |        |
| 1,500.0   | 1,496.0                | 1,399.0                | 1,399.0                | 3.0               | 2.4            | -160.01                     | 154.1                                   | 425.5         | 529.5                      | 524.4                       | 5.08                         | 104.245              |                    |        |
| 1,600.0   | 1,595.3                | 1,498.3                | 1,498.3                | 3.3               | 2.6            | -160.42                     | 154.1                                   | 425.5         | 540.3                      | 534.8                       | 5.43                         | 99.414               |                    |        |
| 1,700.0   | 1,694.7                | 1,597.7                | 1,597.7                | 3.5               | 2.8            | -160.82                     | 154.1                                   | 425.5         | 551.1                      | 545.3                       | 5.79                         | 95.186               |                    |        |
| 1,800.0   | 1,794.0                | 1,697.0                | 1,697.0                | 3.8               | 3.0            | -161.20                     | 154.1                                   | 425.5         | 561.9                      | 555.8                       | 6.14                         | 91.457               |                    |        |
| 1,900.0   | 1,893.3                | 1,796.3                | 1,796.3                | 4.0               | 3.1            | -161.57                     | 154.1                                   | 425.5         | 572.8                      | 566.3                       | 6.50                         | 88.144               |                    |        |
| 2,000.0   | 1,992.7                | 1,895.7                | 1,895.7                | 4.3               | 3.3            | -161.93                     | 154.1                                   | 425.5         | 583.7                      | 576.8                       | 6.85                         | 85.182               |                    |        |
| 2,100.0   | 2,092.0                | 1,995.0                | 1,995.0                | 4.6               | 3.5            | -162.27                     | 154.1                                   | 425.5         | 594.6                      | 587.4                       | 7.21                         | 82.518               |                    |        |
| 2,200.0   | 2,191.4                | 2,094.4                | 2,094.4                | 4.8               | 3.7            | -162.60                     | 154.1                                   | 425.5         | 605.6                      | 598.0                       | 7.56                         | 80.111               |                    |        |
| 2,300.0   | 2,290.7                | 2,193.7                | 2,193.7                | 5.1               | 3.8            | -162.92                     | 154.1                                   | 425.5         | 616.5                      | 608.6                       | 7.91                         | 77.924               |                    |        |
| 2,400.0   | 2,390.0                | 2,293.0                | 2,293.0                | 5.3               | 4.0            | -163.23                     | 154.1                                   | 425.5         | 627.5                      | 619.2                       | 8.26                         | 75.929               |                    |        |
| 2,500.0   | 2,489.4                | 2,392.4                | 2,392.4                | 5.6               | 4.2            | -163.52                     | 154.1                                   | 425.5         | 638.5                      | 629.9                       | 8.62                         | 74.102               |                    |        |
| 2,600.0   | 2,588.7                | 2,491.7                | 2,491.7                | 5.9               | 4.3            | -163.81                     | 154.1                                   | 425.5         | 649.5                      | 640.5                       | 8.97                         | 72.423               |                    |        |
| 2,700.0   | 2,688.1                | 2,591.1                | 2,591.1                | 6.1               | 4.5            | -164.09                     | 154.1                                   | 425.5         | 660.5                      | 651.2                       | 9.32                         | 70.875               |                    |        |
| 2,800.0   | 2,787.4                | 2,690.4                | 2,690.4                | 6.4               | 4.7            | -164.36                     | 154.1                                   | 425.5         | 671.5                      | 661.9                       | 9.67                         | 69.443               |                    |        |
| 2,900.0   | 2,886.7                | 2,789.7                | 2,789.7                | 6.7               | 4.9            | -164.62                     | 154.1                                   | 425.5         | 682.6                      | 672.6                       | 10.02                        | 68.114               |                    |        |
| 3,000.0   | 2,986.1                | 2,889.1                | 2,889.1                | 6.9               | 5.0            | -164.87                     | 154.1                                   | 425.5         | 693.7                      | 683.3                       | 10.37                        | 66.878               |                    |        |
| 3,100.0   | 3,085.4                | 2,988.4                | 2,988.4                | 7.2               | 5.2            | -165.11                     | 154.1                                   | 425.5         | 704.7                      | 694.0                       | 10.72                        | 65.726               |                    |        |
| 3,200.0   | 3,184.8                | 3,087.8                | 3,087.8                | 7.5               | 5.4            | -165.35                     | 154.1                                   | 425.5         | 715.8                      | 704.8                       | 11.07                        | 64.649               |                    |        |
| 3,300.0   | 3,284.1                | 3,187.1                | 3,187.1                | 7.7               | 5.6            | -165.57                     | 154.1                                   | 425.5         | 726.9                      | 715.5                       | 11.42                        | 63.640               |                    |        |
| 3,400.0   | 3,383.4                | 3,286.4                | 3,286.4                | 8.0               | 5.7            | -165.80                     | 154.1                                   | 425.5         | 738.1                      | 726.3                       | 11.77                        | 62.693               |                    |        |
| 3,500.0   | 3,482.8                | 3,385.8                | 3,385.8                | 8.2               | 5.9            | -166.01                     | 154.1                                   | 425.5         | 749.2                      | 737.1                       | 12.12                        | 61.803               |                    |        |
| 3,600.0   | 3,582.1                | 3,485.1                | 3,485.1                | 8.5               | 6.1            | -166.22                     | 154.1                                   | 425.5         | 760.3                      | 747.8                       | 12.47                        | 60.964               |                    |        |
| 3,700.0   | 3,681.5                | 3,584.5                | 3,584.5                | 8.8               | 6.3            | -166.42                     | 154.1                                   | 425.5         | 771.5                      | 758.6                       | 12.82                        | 60.173               |                    |        |
| 3,800.0   | 3,780.8                | 3,683.8                | 3,683.8                | 9.0               | 6.4            | -166.62                     | 154.1                                   | 425.5         | 782.6                      | 769.4                       | 13.17                        | 59.425               |                    |        |
| 3,900.0   | 3,880.1                | 3,783.1                | 3,783.1                | 9.3               | 6.6            | -166.81                     | 154.1                                   | 425.5         | 793.8                      | 780.3                       | 13.52                        | 58.716               |                    |        |
| 4,000.0   | 3,979.5                | 3,882.5                | 3,882.5                | 9.6               | 6.8            | -167.00                     | 154.1                                   | 425.5         | 804.9                      | 791.1                       | 13.87                        | 58.045               |                    |        |
| 4,100.0   | 4,078.8                | 3,981.8                | 3,981.8                | 9.8               | 6.9            | -167.18                     | 154.1                                   | 425.5         | 816.1                      | 801.9                       | 14.22                        | 57.408               |                    |        |
| 4,200.0   | 4,178.2                | 4,081.2                | 4,081.2                | 10.1              | 7.1            | -167.35                     | 154.1                                   | 425.5         | 827.3                      | 812.7                       | 14.56                        | 56.802               |                    |        |
| 4,300.0   | 4,277.5                | 4,180.5                | 4,180.5                | 10.4              | 7.3            | -167.53                     | 154.1                                   | 425.5         | 838.5                      | 823.6                       | 14.91                        | 56.225               |                    |        |
| 4,400.0   | 4,376.8                | 4,279.8                | 4,279.8                | 10.6              | 7.5            | -167.69                     | 154.1                                   | 425.5         | 849.7                      | 834.4                       | 15.26                        | 55.676               |                    |        |
| 4,500.0   | 4,476.2                | 4,379.2                | 4,379.2                | 10.9              | 7.6            | -167.86                     | 154.1                                   | 425.5         | 860.9                      | 845.3                       | 15.61                        | 55.152               |                    |        |
| 4,600.0   | 4,575.5                | 4,478.5                | 4,478.5                | 11.2              | 7.8            | -168.01                     | 154.1                                   | 425.5         | 872.1                      | 856.2                       | 15.96                        | 54.651               |                    |        |
| 4,700.0   | 4,674.9                | 4,577.9                | 4,577.9                | 11.4              | 8.0            | -168.17                     | 154.1                                   | 425.5         | 883.3                      | 867.0                       | 16.31                        | 54.172               |                    |        |
| 4,800.0   | 4,774.2                | 4,677.2                | 4,677.2                | 11.7              | 8.2            | -168.32                     | 154.1                                   | 425.5         | 894.6                      | 877.9                       | 16.65                        | 53.715               |                    |        |
| 4,900.0   | 4,873.5                | 4,776.5                | 4,776.5                | 12.0              | 8.3            | -168.47                     | 154.1                                   | 425.5         | 905.8                      | 888.8                       | 17.00                        | 53.276               |                    |        |
| 5,000.0   | 4,972.9                | 4,875.9                | 4,875.9                | 12.2              | 8.5            | -168.61                     | 154.1                                   | 425.5         | 917.0                      | 899.7                       | 17.35                        | 52.856               |                    |        |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 8140-MWD  |                           |                           |                           |                   |                |                             |   |               |                            |                             |                              |                      | Offset Well Error: | 0.0 ft |
| Reference   |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             | 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) |                              |                      |                    |        |
| 5,100.0   | 5,072.2                   | 4,975.2                   | 4,975.2                   | 12.5              | 8.7            | -168.75                     | 154.1                                   | 425.5         | 928.3                      | 910.6                       | 17.70                        | 52.452               |                    |        |
| 5,200.0   | 5,171.6                   | 5,074.6                   | 5,074.6                   | 12.7              | 8.9            | -168.88                     | 154.1                                   | 425.5         | 939.5                      | 921.5                       | 18.05                        | 52.065               |                    |        |
| 5,300.0   | 5,270.9                   | 5,173.9                   | 5,173.9                   | 13.0              | 9.0            | -169.02                     | 154.1                                   | 425.5         | 950.8                      | 932.4                       | 18.39                        | 51.693               |                    |        |
| 5,400.0   | 5,370.3                   | 5,273.3                   | 5,273.3                   | 13.3              | 9.2            | -169.15                     | 154.1                                   | 425.5         | 962.1                      | 943.3                       | 18.74                        | 51.335               |                    |        |
| 5,500.0   | 5,469.6                   | 5,372.6                   | 5,372.6                   | 13.5              | 9.4            | -169.28                     | 154.1                                   | 425.5         | 973.3                      | 954.2                       | 19.09                        | 50.990               |                    |        |
| 5,600.0   | 5,568.9                   | 5,471.9                   | 5,471.9                   | 13.8              | 9.6            | -169.40                     | 154.1                                   | 425.5         | 984.6                      | 965.2                       | 19.44                        | 50.658               |                    |        |
| 5,700.0   | 5,668.3                   | 5,571.3                   | 5,571.3                   | 14.1              | 9.7            | -169.52                     | 154.1                                   | 425.5         | 995.9                      | 976.1                       | 19.78                        | 50.338               |                    |        |
| 5,800.0   | 5,767.6                   | 5,670.6                   | 5,670.6                   | 14.3              | 9.9            | -169.64                     | 154.1                                   | 425.5         | 1,007.1                    | 987.0                       | 20.13                        | 50.030               |                    |        |
| 5,900.0   | 5,867.0                   | 5,770.0                   | 5,770.0                   | 14.6              | 10.1           | -169.76                     | 154.1                                   | 425.5         | 1,018.4                    | 998.0                       | 20.48                        | 49.732               |                    |        |
| 6,000.0   | 5,966.3                   | 5,869.3                   | 5,869.3                   | 14.9              | 10.2           | -169.87                     | 154.1                                   | 425.5         | 1,029.7                    | 1,008.9                     | 20.83                        | 49.445               |                    |        |
| 6,100.0   | 6,065.6                   | 5,968.6                   | 5,968.6                   | 15.1              | 10.4           | -169.98                     | 154.1                                   | 425.5         | 1,041.0                    | 1,019.8                     | 21.17                        | 49.167               |                    |        |
| 6,200.0   | 6,165.0                   | 6,068.0                   | 6,068.0                   | 15.4              | 10.6           | -170.09                     | 154.1                                   | 425.5         | 1,052.3                    | 1,030.8                     | 21.52                        | 48.898               |                    |        |
| 6,300.0   | 6,264.3                   | 6,167.3                   | 6,167.3                   | 15.7              | 10.8           | -170.19                     | 154.1                                   | 425.5         | 1,063.6                    | 1,041.7                     | 21.87                        | 48.638               |                    |        |
| 6,400.0   | 6,363.7                   | 6,266.7                   | 6,266.7                   | 15.9              | 10.9           | -170.30                     | 154.1                                   | 425.5         | 1,074.9                    | 1,052.7                     | 22.21                        | 48.387               |                    |        |
| 6,500.0   | 6,463.0                   | 6,366.0                   | 6,366.0                   | 16.2              | 11.1           | -170.40                     | 154.1                                   | 425.5         | 1,086.2                    | 1,063.6                     | 22.56                        | 48.143               |                    |        |
| 6,600.0   | 6,562.3                   | 6,465.3                   | 6,465.3                   | 16.5              | 11.3           | -170.50                     | 154.1                                   | 425.5         | 1,097.5                    | 1,074.6                     | 22.91                        | 47.907               |                    |        |
| 6,700.0   | 6,661.7                   | 6,564.7                   | 6,564.7                   | 16.7              | 11.5           | -170.60                     | 154.1                                   | 425.5         | 1,108.8                    | 1,085.6                     | 23.26                        | 47.678               |                    |        |
| 6,801.1   | 6,762.1                   | 6,665.1                   | 6,665.1                   | 17.0              | 11.6           | -170.69                     | 154.1                                   | 425.5         | 1,120.3                    | 1,096.7                     | 23.61                        | 47.454               |                    |        |
| 6,850.0   | 6,810.8                   | 6,713.8                   | 6,713.8                   | 17.1              | 11.7           | 141.37                      | 154.1                                   | 425.5         | 1,124.6                    | 1,100.8                     | 23.79                        | 47.272               |                    |        |
| 6,900.0   | 6,860.5                   | 6,763.5                   | 6,763.5                   | 17.2              | 11.8           | 97.75                       | 154.1                                   | 425.5         | 1,126.7                    | 1,102.8                     | 23.95                        | 47.043               |                    |        |
| 6,950.0   | 6,909.9                   | 6,812.9                   | 6,812.9                   | 17.2              | 11.9           | 81.31                       | 154.1                                   | 425.5         | 1,126.4                    | 1,102.3                     | 24.08                        | 46.771               |                    |        |
| 7,000.0   | 6,958.4                   | 6,861.4                   | 6,861.4                   | 17.2              | 12.0           | 74.68                       | 154.1                                   | 425.5         | 1,123.7                    | 1,099.5                     | 24.19                        | 46.447               |                    |        |
| 7,050.0   | 7,005.8                   | 6,908.8                   | 6,908.8                   | 17.1              | 12.1           | 71.82                       | 154.1                                   | 425.5         | 1,118.8                    | 1,094.5                     | 24.29                        | 46.059               |                    |        |
| 7,100.0   | 7,051.7                   | 6,954.7                   | 6,954.7                   | 17.1              | 12.1           | 70.84                       | 154.1                                   | 425.5         | 1,111.9                    | 1,087.5                     | 24.39                        | 45.592               |                    |        |
| 7,150.0   | 7,095.8                   | 6,998.8                   | 6,998.8                   | 17.0              | 12.2           | 70.98                       | 154.1                                   | 425.5         | 1,103.2                    | 1,078.7                     | 24.50                        | 45.038               |                    |        |
| 7,200.0   | 7,137.6                   | 7,040.6                   | 7,040.6                   | 16.9              | 12.3           | 71.89                       | 154.1                                   | 425.5         | 1,093.0                    | 1,068.4                     | 24.62                        | 44.393               |                    |        |
| 7,250.0   | 7,176.9                   | 7,079.9                   | 7,079.9                   | 16.8              | 12.4           | 73.34                       | 154.1                                   | 425.5         | 1,081.6                    | 1,056.8                     | 24.77                        | 43.668               |                    |        |
| 7,300.0   | 7,213.4                   | 7,116.4                   | 7,116.4                   | 16.7              | 12.4           | 75.17                       | 154.1                                   | 425.5         | 1,069.3                    | 1,044.3                     | 24.93                        | 42.885               |                    |        |
| 7,350.0   | 7,246.8                   | 7,149.8                   | 7,149.8                   | 16.6              | 12.5           | 77.25                       | 154.1                                   | 425.5         | 1,056.4                    | 1,031.3                     | 25.11                        | 42.077               |                    |        |
| 7,400.0   | 7,276.9                   | 7,179.9                   | 7,179.9                   | 16.5              | 12.5           | 79.46                       | 154.1                                   | 425.5         | 1,043.5                    | 1,018.2                     | 25.28                        | 41.277               |                    |        |
| 7,450.0   | 7,303.4                   | 7,206.4                   | 7,206.4                   | 16.4              | 12.6           | 81.68                       | 154.1                                   | 425.5         | 1,030.8                    | 1,005.4                     | 25.44                        | 40.516               |                    |        |
| 7,500.0   | 7,326.1                   | 7,229.1                   | 7,229.1                   | 16.4              | 12.6           | 83.80                       | 154.1                                   | 425.5         | 1,018.9                    | 993.3                       | 25.59                        | 39.814               |                    |        |
| 7,550.0   | 7,344.8                   | 7,247.8                   | 7,247.8                   | 16.4              | 12.6           | 85.72                       | 154.1                                   | 425.5         | 1,007.9                    | 982.2                       | 25.73                        | 39.179               |                    |        |
| 7,600.0   | 7,359.5                   | 7,262.5                   | 7,262.5                   | 16.4              | 12.7           | 87.36                       | 154.1                                   | 425.5         | 998.4                      | 972.5                       | 25.86                        | 38.608               |                    |        |
| 7,650.0   | 7,370.0                   | 7,273.0                   | 7,273.0                   | 16.5              | 12.7           | 88.65                       | 154.1                                   | 425.5         | 990.6                      | 964.6                       | 26.00                        | 38.092               |                    |        |
| 7,700.0   | 7,376.1                   | 7,279.1                   | 7,279.1                   | 16.6              | 12.7           | 89.55                       | 154.1                                   | 425.5         | 984.7                      | 958.5                       | 26.17                        | 37.623               |                    |        |
| 7,746.2   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 16.8              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 981.1                      | 954.7                       | 26.35                        | 37.226               |                    |        |
| 7,800.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 17.0              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 979.4                      | 952.8                       | 26.62                        | 36.791               |                    |        |
| 7,803.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 17.0              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 979.4                      | 952.8                       | 26.64                        | 36.764               |                    |        |
| 7,900.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 17.5              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 984.2                      | 956.9                       | 27.27                        | 36.094               |                    |        |
| 8,000.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 18.2              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 999.0                      | 970.9                       | 28.09                        | 35.568               |                    |        |
| 8,100.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 19.0              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 1,023.5                    | 994.4                       | 29.06                        | 35.223               |                    |        |
| 8,200.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 20.0              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 1,056.8                    | 1,026.7                     | 30.15                        | 35.055               |                    |        |
| 8,300.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 21.0              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 1,098.3                    | 1,067.0                     | 31.34                        | 35.045 SF            |                    |        |
| 8,400.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 22.2              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 1,147.0                    | 1,114.4                     | 32.62                        | 35.167               |                    |        |
| 8,500.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 23.4              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 1,202.1                    | 1,168.1                     | 33.96                        | 35.397               |                    |        |
| 8,600.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 24.7              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 1,262.7                    | 1,227.3                     | 35.36                        | 35.710               |                    |        |
| 8,700.0   | 7,378.0                   | 7,281.0                   | 7,281.0                   | 26.0              | 12.7           | 90.00                       | 154.1                                   | 425.5         | 1,328.1                    | 1,291.3                     | 36.81                        | 36.083               |                    |        |

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



# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |         |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 738-MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |         |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   |                           | Warning |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                           |         |
| 0.0  | 0.0                 | 9.9                 | 9.9                 | 0.0             | 0.0         | -142.09               | -794.1                            | -618.3     | 1,006.5              |                       |                        |                   |                           |         |
| 100.0  | 100.0               | 108.4               | 108.4               | 0.2             | 0.2         | -142.08               | -794.1                            | -618.5     | 1,006.5              | 1,006.2               | 0.34                   | 2,928.005         |                           |         |
| 200.0  | 200.0               | 206.9               | 206.9               | 0.3             | 0.4         | -142.05               | -793.9                            | -619.1     | 1,006.8              | 1,006.1               | 0.69                   | 1,453.302         |                           |         |
| 300.0  | 300.0               | 305.3               | 305.3               | 0.5             | 0.5         | -142.00               | -793.6                            | -620.1     | 1,007.2              | 1,006.1               | 1.04                   | 966.810           |                           |         |
| 400.0  | 400.0               | 403.8               | 403.8               | 0.7             | 0.7         | -141.92               | -793.2                            | -621.5     | 1,007.7              | 1,006.3               | 1.39                   | 724.587           |                           |         |
| 450.0  | 450.0               | 453.1               | 453.0               | 0.8             | 0.8         | -141.88               | -793.0                            | -622.3     | 1,008.0              | 1,006.5               | 1.57                   | 644.017           |                           |         |
| 500.0  | 500.0               | 502.3               | 502.3               | 0.9             | 0.9         | -8.49                 | -792.7                            | -623.2     | 1,008.2              | 1,006.4               | 1.74                   | 579.235           |                           |         |
| 600.0  | 600.0               | 600.8               | 600.7               | 1.0             | 1.1         | -8.39                 | -792.1                            | -625.3     | 1,007.3              | 1,005.2               | 2.09                   | 482.154           |                           |         |
| 700.0  | 699.9               | 699.2               | 699.1               | 1.2             | 1.2         | -8.29                 | -791.4                            | -627.8     | 1,004.9              | 1,002.4               | 2.44                   | 412.282           |                           |         |
| 800.0  | 799.8               | 800.5               | 800.4               | 1.4             | 1.4         | -8.21                 | -790.9                            | -630.3     | 1,000.7              | 998.0                 | 2.79                   | 359.119           |                           |         |
| 900.0  | 899.5               | 906.5               | 906.3               | 1.6             | 1.6         | -8.27                 | -791.3                            | -630.8     | 994.5                | 991.4                 | 3.14                   | 317.196           |                           |         |
| 1,000.0  | 999.2               | 1,016.9             | 1,016.7             | 1.8             | 1.8         | -8.53                 | -793.0                            | -628.4     | 985.7                | 982.2                 | 3.48                   | 282.858           |                           |         |
| 1,108.4  | 1,106.9             | 1,129.1             | 1,128.7             | 2.1             | 2.0         | -9.02                 | -795.8                            | -622.8     | 973.3                | 969.4                 | 3.85                   | 252.636           |                           |         |
| 1,200.0  | 1,197.9             | 1,211.0             | 1,210.4             | 2.3             | 2.1         | -9.50                 | -799.2                            | -617.1     | 962.0                | 957.9                 | 4.15                   | 231.689           |                           |         |
| 1,300.0  | 1,297.3             | 1,305.0             | 1,303.9             | 2.5             | 2.3         | -10.16                | -804.6                            | -609.8     | 950.7                | 946.2                 | 4.50                   | 211.270           |                           |         |
| 1,400.0  | 1,396.6             | 1,408.2             | 1,406.4             | 2.8             | 2.5         | -11.04                | -812.2                            | -600.1     | 939.8                | 934.9                 | 4.89                   | 192.141           |                           |         |
| 1,500.0  | 1,496.0             | 1,523.3             | 1,520.1             | 3.0             | 2.7         | -12.32                | -821.9                            | -584.9     | 927.9                | 922.6                 | 5.35                   | 173.598           |                           |         |
| 1,600.0  | 1,595.3             | 1,624.4             | 1,619.1             | 3.3             | 3.0         | -13.73                | -831.7                            | -567.4     | 915.2                | 909.4                 | 5.83                   | 157.108           |                           |         |
| 1,700.0  | 1,694.7             | 1,721.0             | 1,713.3             | 3.5             | 3.4         | -15.26                | -842.1                            | -548.8     | 902.9                | 896.5                 | 6.32                   | 142.763           |                           |         |
| 1,800.0  | 1,794.0             | 1,822.3             | 1,812.1             | 3.8             | 3.7         | -16.91                | -852.9                            | -528.8     | 890.9                | 884.0                 | 6.87                   | 129.766           |                           |         |
| 1,900.0  | 1,893.3             | 1,921.8             | 1,909.2             | 4.0             | 4.1         | -18.54                | -862.6                            | -509.6     | 879.1                | 871.7                 | 7.41                   | 118.667           |                           |         |
| 2,000.0  | 1,992.7             | 2,014.1             | 1,999.4             | 4.3             | 4.4         | -20.04                | -871.4                            | -492.3     | 868.1                | 860.2                 | 7.94                   | 109.369           |                           |         |
| 2,100.0  | 2,092.0             | 2,103.1             | 2,086.2             | 4.6             | 4.7         | -21.59                | -880.9                            | -475.1     | 858.6                | 850.1                 | 8.48                   | 101.232           |                           |         |
| 2,200.0  | 2,191.4             | 2,206.2             | 2,186.6             | 4.8             | 5.1         | -23.46                | -892.2                            | -454.4     | 849.7                | 840.6                 | 9.09                   | 93.465            |                           |         |
| 2,300.0  | 2,290.7             | 2,302.9             | 2,280.9             | 5.1             | 5.5         | -25.21                | -901.9                            | -435.4     | 841.1                | 831.5                 | 9.67                   | 86.963            |                           |         |
| 2,400.0  | 2,390.0             | 2,390.0             | 2,366.0             | 5.3             | 5.9         | -26.78                | -911.1                            | -419.0     | 834.1                | 823.9                 | 10.21                  | 81.654            |                           |         |
| 2,500.0  | 2,489.4             | 2,485.6             | 2,459.3             | 5.6             | 6.2         | -28.52                | -921.6                            | -401.3     | 828.4                | 817.6                 | 10.80                  | 76.713            |                           |         |
| 2,600.0  | 2,588.7             | 2,579.0             | 2,550.4             | 5.9             | 6.6         | -30.27                | -932.3                            | -383.5     | 823.7                | 812.3                 | 11.38                  | 72.368            |                           |         |
| 2,700.0  | 2,688.1             | 2,677.0             | 2,645.9             | 6.1             | 7.0         | -32.14                | -943.5                            | -364.7     | 820.0                | 808.0                 | 11.98                  | 68.418            |                           |         |
| 2,800.0  | 2,787.4             | 2,771.8             | 2,738.4             | 6.4             | 7.4         | -33.94                | -954.4                            | -346.7     | 817.2                | 804.6                 | 12.57                  | 65.020            |                           |         |
| 2,900.0  | 2,886.7             | 2,873.3             | 2,837.4             | 6.7             | 7.8         | -35.89                | -965.6                            | -327.3     | 814.9                | 801.8                 | 13.18                  | 61.830            |                           |         |
| 3,000.0  | 2,986.1             | 2,966.9             | 2,928.8             | 6.9             | 8.2         | -37.67                | -976.0                            | -309.8     | 813.6                | 799.9                 | 13.75                  | 59.186            |                           |         |
| 3,100.0  | 3,085.4             | 3,067.1             | 3,026.7             | 7.2             | 8.6         | -39.55                | -986.7                            | -291.4     | 812.9                | 798.6                 | 14.33                  | 56.709            |                           |         |
| 3,128.8  | 3,114.1             | 3,093.8             | 3,052.7             | 7.3             | 8.7         | -40.05                | -989.5                            | -286.5     | 812.8                | 798.3                 | 14.50                  | 56.072 CC         |                           |         |
| 3,200.0  | 3,184.8             | 3,161.7             | 3,119.0             | 7.5             | 9.0         | -41.35                | -996.9                            | -273.8     | 813.2                | 798.3                 | 14.90                  | 54.576 ES         |                           |         |
| 3,300.0  | 3,284.1             | 3,260.6             | 3,215.6             | 7.7             | 9.4         | -43.22                | -1,007.4                          | -255.4     | 814.0                | 798.6                 | 15.47                  | 52.609            |                           |         |
| 3,400.0  | 3,383.4             | 3,353.0             | 3,305.7             | 8.0             | 9.8         | -45.00                | -1,017.4                          | -237.7     | 816.1                | 800.0                 | 16.03                  | 50.914            |                           |         |
| 3,500.0  | 3,482.8             | 3,450.2             | 3,400.4             | 8.2             | 10.2        | -46.90                | -1,028.1                          | -218.5     | 819.2                | 802.6                 | 16.59                  | 49.381            |                           |         |
| 3,600.0  | 3,582.1             | 3,548.5             | 3,496.4             | 8.5             | 10.6        | -48.75                | -1,038.4                          | -199.8     | 822.8                | 805.7                 | 17.13                  | 48.031            |                           |         |
| 3,700.0  | 3,681.5             | 3,641.0             | 3,586.8             | 8.8             | 11.0        | -50.42                | -1,048.7                          | -183.2     | 827.7                | 810.1                 | 17.64                  | 46.937            |                           |         |
| 3,800.0  | 3,780.8             | 3,739.0             | 3,682.7             | 9.0             | 11.4        | -52.14                | -1,059.4                          | -165.9     | 833.2                | 815.1                 | 18.16                  | 45.893            |                           |         |
| 3,900.0  | 3,880.1             | 3,831.2             | 3,772.5             | 9.3             | 11.8        | -53.85                | -1,069.7                          | -148.0     | 840.0                | 821.4                 | 18.67                  | 45.004            |                           |         |
| 4,000.0  | 3,979.5             | 3,931.6             | 3,870.3             | 9.6             | 12.2        | -55.71                | -1,080.6                          | -128.0     | 847.4                | 828.3                 | 19.18                  | 44.178            |                           |         |
| 4,100.0  | 4,078.8             | 4,027.4             | 3,963.7             | 9.8             | 12.6        | -57.42                | -1,091.0                          | -109.6     | 855.5                | 835.9                 | 19.67                  | 43.490            |                           |         |
| 4,200.0  | 4,178.2             | 4,127.2             | 4,061.1             | 10.1            | 13.0        | -59.18                | -1,101.6                          | -90.1      | 864.4                | 844.3                 | 20.16                  | 42.882            |                           |         |
| 4,300.0  | 4,277.5             | 4,228.0             | 4,159.6             | 10.4            | 13.4        | -60.84                | -1,112.1                          | -71.9      | 873.4                | 852.8                 | 20.62                  | 42.366            |                           |         |
| 4,400.0  | 4,376.8             | 4,332.5             | 4,262.1             | 10.6            | 13.8        | -62.45                | -1,122.7                          | -54.4      | 882.5                | 861.4                 | 21.06                  | 41.901            |                           |         |
| 4,500.0  | 4,476.2             | 4,439.1             | 4,366.9             | 10.9            | 14.2        | -64.01                | -1,132.6                          | -37.4      | 891.1                | 869.6                 | 21.50                  | 41.447            |                           |         |
| 4,600.0  | 4,575.5             | 4,532.3             | 4,458.5             | 11.2            | 14.6        | -65.35                | -1,141.1                          | -22.7      | 900.0                | 878.1                 | 21.90                  | 41.087            |                           |         |
| 4,700.0  | 4,674.9             | 4,625.2             | 4,549.8             | 11.4            | 14.9        | -66.66                | -1,150.0                          | -7.9       | 910.0                | 887.7                 | 22.30                  | 40.797            |                           |         |
| 4,800.0  | 4,774.2             | 4,734.4             | 4,657.3             | 11.7            | 15.3        | -68.10                | -1,160.1                          | 8.2        | 919.8                | 897.0                 | 22.71                  | 40.496            |                           |         |
| 4,900.0  | 4,873.5             | 4,833.0             | 4,754.5             | 12.0            | 15.6        | -69.38                | -1,168.7                          | 22.8       | 929.5                | 906.4                 | 23.11                  | 40.226            |                           |         |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 738-MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: | 0.0 ft |
| Reference  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | Warning            |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor |                    |        |
| 5,000.0  | 4,972.9             | 4,926.1             | 4,846.1             | 12.2            | 16.0        | -70.60                | -1,176.6                          | 37.1       | 939.8                | 916.3                 | 23.49                  | 40.016            |                    |        |
| 5,100.0  | 5,072.2             | 5,016.3             | 4,934.9             | 12.5            | 16.3        | -71.75                | -1,184.9                          | 51.0       | 951.2                | 927.3                 | 23.86                  | 39.864            |                    |        |
| 5,200.0  | 5,171.6             | 5,113.5             | 5,030.3             | 12.7            | 16.7        | -72.99                | -1,194.2                          | 66.8       | 963.7                | 939.5                 | 24.24                  | 39.765            |                    |        |
| 5,300.0  | 5,270.9             | 5,232.2             | 5,147.3             | 13.0            | 17.1        | -74.38                | -1,204.4                          | 83.7       | 974.8                | 950.2                 | 24.63                  | 39.587            |                    |        |
| 5,400.0  | 5,370.3             | 5,328.5             | 5,242.3             | 13.3            | 17.4        | -75.51                | -1,211.8                          | 97.6       | 985.7                | 960.7                 | 24.99                  | 39.440            |                    |        |
| 5,500.0  | 5,469.6             | 5,418.5             | 5,331.1             | 13.5            | 17.7        | -76.56                | -1,219.0                          | 111.1      | 997.5                | 972.2                 | 25.35                  | 39.355            |                    |        |
| 5,600.0  | 5,568.9             | 5,518.5             | 5,429.5             | 13.8            | 18.0        | -77.68                | -1,227.4                          | 125.9      | 1,010.1              | 984.3                 | 25.70                  | 39.295            |                    |        |
| 5,700.0  | 5,668.3             | 5,638.0             | 5,547.7             | 14.1            | 18.4        | -78.91                | -1,236.9                          | 141.7      | 1,021.7              | 995.6                 | 26.07                  | 39.190            |                    |        |
| 5,800.0  | 5,767.6             | 5,771.0             | 5,679.7             | 14.3            | 18.8        | -80.15                | -1,245.3                          | 155.7      | 1,030.7              | 1,004.3               | 26.44                  | 38.985            |                    |        |
| 5,900.0  | 5,867.0             | 5,879.6             | 5,787.7             | 14.6            | 19.0        | -81.07                | -1,251.3                          | 165.1      | 1,038.4              | 1,011.6               | 26.79                  | 38.765            |                    |        |
| 6,000.0  | 5,966.3             | 6,002.6             | 5,910.3             | 14.9            | 19.3        | -82.04                | -1,256.4                          | 173.2      | 1,043.9              | 1,016.8               | 27.15                  | 38.452            |                    |        |
| 6,100.0  | 6,065.6             | 6,151.6             | 6,059.1             | 15.1            | 19.5        | -83.15                | -1,259.6                          | 179.6      | 1,046.8              | 1,019.3               | 27.52                  | 38.038            |                    |        |
| 6,200.0  | 6,165.0             | 6,272.8             | 6,180.3             | 15.4            | 19.6        | -83.91                | -1,259.8                          | 179.7      | 1,045.7              | 1,017.8               | 27.88                  | 37.511            |                    |        |
| 6,300.0  | 6,264.3             | 6,373.8             | 6,281.3             | 15.7            | 19.7        | -84.53                | -1,259.4                          | 179.2      | 1,043.9              | 1,015.6               | 28.22                  | 36.987            |                    |        |
| 6,400.0  | 6,363.7             | 6,473.0             | 6,380.5             | 15.9            | 19.8        | -85.14                | -1,259.0                          | 178.6      | 1,042.2              | 1,013.6               | 28.57                  | 36.477            |                    |        |
| 6,500.0  | 6,463.0             | 6,576.5             | 6,483.9             | 16.2            | 19.8        | -85.77                | -1,258.6                          | 177.7      | 1,040.4              | 1,011.5               | 28.92                  | 35.970            |                    |        |
| 6,600.0  | 6,562.3             | 6,672.7             | 6,580.2             | 16.5            | 19.9        | -86.37                | -1,257.9                          | 177.2      | 1,038.7              | 1,009.4               | 29.28                  | 35.476            |                    |        |
| 6,700.0  | 6,661.7             | 6,771.2             | 6,678.7             | 16.7            | 20.0        | -87.01                | -1,257.2                          | 176.9      | 1,037.3              | 1,007.7               | 29.63                  | 35.004            |                    |        |
| 6,801.1  | 6,762.1             | 6,874.3             | 6,781.7             | 17.0            | 20.1        | -87.65                | -1,256.7                          | 176.3      | 1,036.0              | 1,006.0               | 30.00                  | 34.535            |                    |        |
| 6,812.1  | 6,773.0             | 6,885.7             | 6,793.2             | 17.0            | 20.1        | -95.48                | -1,256.7                          | 176.2      | 1,035.9              | 1,005.9               | 30.03                  | 34.501            |                    |        |
| 6,850.0  | 6,810.8             | 6,925.4             | 6,832.9             | 17.1            | 20.2        | -135.56               | -1,256.5                          | 175.8      | 1,036.8              | 1,006.8               | 30.07                  | 34.477 SF         |                    |        |
| 6,900.0  | 6,860.5             | 6,977.7             | 6,885.2             | 17.2            | 20.2        | -179.57               | -1,256.1                          | 175.2      | 1,040.8              | 1,010.9               | 29.99                  | 34.708            |                    |        |
| 6,950.0  | 6,909.9             | 7,027.9             | 6,935.4             | 17.2            | 20.3        | 163.16                | -1,255.6                          | 174.6      | 1,048.0              | 1,018.2               | 29.74                  | 35.237            |                    |        |
| 7,000.0  | 6,958.4             | 7,074.3             | 6,981.7             | 17.2            | 20.3        | 155.25                | -1,255.2                          | 174.1      | 1,058.4              | 1,029.1               | 29.33                  | 36.080            |                    |        |
| 7,050.0  | 7,005.8             | 7,120.1             | 7,027.5             | 17.1            | 20.3        | 150.66                | -1,254.9                          | 173.6      | 1,072.1              | 1,043.3               | 28.79                  | 37.236            |                    |        |
| 7,100.0  | 7,051.7             | 7,165.7             | 7,073.1             | 17.1            | 20.4        | 147.50                | -1,254.7                          | 173.1      | 1,088.9              | 1,060.8               | 28.13                  | 38.704            |                    |        |
| 7,150.0  | 7,095.8             | 7,210.9             | 7,118.3             | 17.0            | 20.4        | 145.02                | -1,254.4                          | 172.7      | 1,108.8              | 1,081.4               | 27.39                  | 40.482            |                    |        |
| 7,200.0  | 7,137.6             | 7,258.6             | 7,166.1             | 16.9            | 20.5        | 142.94                | -1,254.0                          | 172.2      | 1,131.5              | 1,104.9               | 26.60                  | 42.534            |                    |        |
| 7,250.0  | 7,176.9             | 7,303.0             | 7,210.4             | 16.8            | 20.5        | 140.95                | -1,253.5                          | 171.5      | 1,156.9              | 1,131.1               | 25.81                  | 44.832            |                    |        |
| 7,300.0  | 7,213.4             | 7,341.6             | 7,249.1             | 16.7            | 20.5        | 138.81                | -1,253.0                          | 170.8      | 1,185.1              | 1,160.0               | 25.06                  | 47.285            |                    |        |
| 7,350.0  | 7,246.8             | 7,377.2             | 7,284.6             | 16.6            | 20.5        | 136.46                | -1,252.5                          | 170.1      | 1,215.8              | 1,191.4               | 24.45                  | 49.720            |                    |        |
| 7,400.0  | 7,276.9             | 7,412.2             | 7,319.6             | 16.5            | 20.6        | 133.86                | -1,252.0                          | 169.4      | 1,249.0              | 1,225.0               | 24.06                  | 51.920            |                    |        |
| 7,450.0  | 7,303.4             | 7,444.7             | 7,352.1             | 16.4            | 20.6        | 130.85                | -1,251.5                          | 168.6      | 1,284.5              | 1,260.5               | 23.95                  | 53.631            |                    |        |
| 7,500.0  | 7,326.1             | 7,473.0             | 7,380.3             | 16.4            | 20.6        | 127.21                | -1,250.9                          | 167.7      | 1,321.9              | 1,297.7               | 24.20                  | 54.622            |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   |         | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 750-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 |                    |        |
| 7,300.0  | 7,213.4             | 7,267.4             | 7,190.4             | 16.7            | 21.2        | 20.78                 | 1,010.3                           | -304.4     | 1,336.4              | 1,309.1               | 27.32                  | 48.912            |         |                    |        |
| 7,350.0  | 7,246.8             | 7,300.8             | 7,223.8             | 16.6            | 21.3        | 22.18                 | 1,010.3                           | -304.4     | 1,300.4              | 1,274.1               | 26.38                  | 49.301            |         |                    |        |
| 7,400.0  | 7,276.9             | 7,330.9             | 7,253.9             | 16.5            | 21.3        | 24.26                 | 1,010.3                           | -304.4     | 1,261.8              | 1,236.2               | 25.55                  | 49.377            |         |                    |        |
| 7,450.0  | 7,303.4             | 7,357.4             | 7,280.4             | 16.4            | 21.3        | 27.22                 | 1,010.3                           | -304.4     | 1,220.7              | 1,195.7               | 24.97                  | 48.889            |         |                    |        |
| 7,500.0  | 7,326.1             | 7,380.1             | 7,303.1             | 16.4            | 21.3        | 31.38                 | 1,010.3                           | -304.4     | 1,177.5              | 1,152.7               | 24.78                  | 47.527            |         |                    |        |
| 7,550.0  | 7,344.8             | 7,398.8             | 7,321.8             | 16.4            | 21.4        | 37.27                 | 1,010.3                           | -304.4     | 1,132.6              | 1,107.4               | 25.17                  | 45.000            |         |                    |        |
| 7,600.0  | 7,359.5             | 7,413.5             | 7,336.5             | 16.4            | 21.4        | 45.67                 | 1,010.3                           | -304.4     | 1,086.3              | 1,060.0               | 26.33                  | 41.264            |         |                    |        |
| 7,650.0  | 7,370.0             | 7,424.0             | 7,347.0             | 16.5            | 21.4        | 57.52                 | 1,010.3                           | -304.4     | 1,039.0              | 1,010.8               | 28.22                  | 36.821            |         |                    |        |
| 7,700.0  | 7,376.1             | 7,430.2             | 7,353.1             | 16.6            | 21.4        | 73.26                 | 1,010.3                           | -304.4     | 991.0                | 960.8                 | 30.21                  | 32.806            |         |                    |        |
| 7,746.2  | 7,378.0             | 7,432.0             | 7,355.0             | 16.8            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 946.4                | 915.4                 | 31.07                  | 30.459            |         |                    |        |
| 7,800.0  | 7,378.0             | 7,432.0             | 7,355.0             | 17.0            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 894.7                | 863.4                 | 31.34                  | 28.548            |         |                    |        |
| 7,900.0  | 7,378.0             | 7,432.0             | 7,355.0             | 17.5            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 799.2                | 767.2                 | 31.99                  | 24.984            |         |                    |        |
| 8,000.0  | 7,378.0             | 7,432.0             | 7,355.0             | 18.2            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 704.8                | 672.0                 | 32.81                  | 21.485            |         |                    |        |
| 8,100.0  | 7,378.0             | 7,432.0             | 7,355.0             | 19.0            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 612.3                | 578.6                 | 33.77                  | 18.130            |         |                    |        |
| 8,200.0  | 7,378.0             | 7,432.0             | 7,355.0             | 20.0            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 522.6                | 487.7                 | 34.87                  | 14.989            |         |                    |        |
| 8,300.0  | 7,378.0             | 7,432.0             | 7,355.0             | 21.0            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 437.4                | 401.3                 | 36.06                  | 12.129            |         |                    |        |
| 8,400.0  | 7,378.0             | 7,432.0             | 7,355.0             | 22.2            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 359.8                | 322.4                 | 37.33                  | 9.636             |         |                    |        |
| 8,500.0  | 7,378.0             | 7,432.0             | 7,355.0             | 23.4            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 296.0                | 257.3                 | 38.68                  | 7.652             |         |                    |        |
| 8,600.0  | 7,378.0             | 7,432.0             | 7,355.0             | 24.7            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 256.4                | 216.3                 | 40.08                  | 6.398             |         |                    |        |
| 8,659.2  | 7,378.0             | 7,432.0             | 7,355.0             | 25.4            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 249.5                | 208.5                 | 40.94                  | 6.094 CC, ES      |         |                    |        |
| 8,700.0  | 7,378.0             | 7,432.0             | 7,355.0             | 26.0            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 252.8                | 211.3                 | 41.53                  | 6.087 SF          |         |                    |        |
| 8,800.0  | 7,378.0             | 7,432.0             | 7,355.0             | 27.4            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 286.5                | 243.4                 | 43.01                  | 6.660             |         |                    |        |
| 8,900.0  | 7,378.0             | 7,432.0             | 7,355.0             | 28.8            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 346.7                | 302.2                 | 44.53                  | 7.786             |         |                    |        |
| 9,000.0  | 7,378.0             | 7,432.0             | 7,355.0             | 30.3            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 422.3                | 376.3                 | 46.07                  | 9.167             |         |                    |        |
| 9,100.0  | 7,378.0             | 7,432.0             | 7,355.0             | 31.7            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 506.5                | 458.8                 | 47.64                  | 10.631            |         |                    |        |
| 9,200.0  | 7,378.0             | 7,432.0             | 7,355.0             | 33.3            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 595.6                | 546.3                 | 49.23                  | 12.098            |         |                    |        |
| 9,246.2  | 7,378.0             | 7,432.0             | 7,355.0             | 34.0            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 637.8                | 587.9                 | 49.97                  | 12.765            |         |                    |        |
| 9,300.0  | 7,378.0             | 7,432.0             | 7,355.0             | 34.8            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 687.4                | 636.9                 | 50.51                  | 13.610            |         |                    |        |
| 9,400.0  | 7,378.0             | 7,432.0             | 7,355.0             | 36.3            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 780.3                | 728.8                 | 51.50                  | 15.152            |         |                    |        |
| 9,503.1  | 7,378.0             | 7,432.0             | 7,355.0             | 37.9            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 876.5                | 824.0                 | 52.49                  | 16.698            |         |                    |        |
| 9,600.0  | 7,378.0             | 7,432.0             | 7,355.0             | 39.4            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 967.6                | 913.5                 | 54.07                  | 17.894            |         |                    |        |
| 9,700.0  | 7,378.0             | 7,432.0             | 7,355.0             | 41.0            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 1,062.7              | 1,007.0               | 55.72                  | 19.073            |         |                    |        |
| 9,800.0  | 7,378.0             | 7,432.0             | 7,355.0             | 42.5            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 1,158.7              | 1,101.3               | 57.37                  | 20.195            |         |                    |        |
| 9,900.0  | 7,378.0             | 7,432.0             | 7,355.0             | 44.1            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 1,255.3              | 1,196.2               | 59.04                  | 21.262            |         |                    |        |
| 10,000.0   | 7,378.0             | 7,432.0             | 7,355.0             | 45.7            | 21.4        | 90.00                 | 1,010.3                           | -304.4     | 1,352.4              | 1,291.6               | 60.71                  | 22.276            |         |                    |        |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SURVEYS |                |                |                |                 |        |                   |                        |            |                 |                  | Offset Site Error: |           | 0.0 ft     |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-----------|------------|
| Survey Program: 60-MWD  |                |                |                |                 |        |                   |                        |            |                 |                  | Offset Well Error: |           | 0.0 ft     |
| Reference   |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    | Warning   |            |
| Measured Depth  | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Total Uncertainty  |           | Separation |
| (ft)  | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | Axis               |           | Factor     |
| 0.0   | 0.0            | 3.2            | 3.2            | 0.0             | 0.0    | 66.08             | 185.4                  | 418.0      | 457.3           |                  |                    |           |            |
| 100.0   | 100.0          | 104.9          | 104.9          | 0.2             | 0.2    | 65.91             | 186.4                  | 417.0      | 456.8           | 456.4            | 0.31               | 1,477.559 | CC, ES     |
| 123.0   | 123.0          | 126.0          | 126.0          | 0.2             | 0.2    | 65.86             | 186.8                  | 416.8      | 456.7           | 456.3            | 0.39               | 1,182.083 |            |
| 200.0   | 200.0          | 196.1          | 196.0          | 0.3             | 0.3    | 65.64             | 188.6                  | 416.5      | 457.3           | 456.6            | 0.64               | 710.495   |            |
| 300.0   | 300.0          | 283.8          | 283.6          | 0.5             | 0.5    | 65.28             | 192.3                  | 417.6      | 460.1           | 459.2            | 0.97               | 474.278   |            |
| 400.0   | 400.0          | 367.7          | 367.3          | 0.7             | 0.7    | 64.83             | 197.6                  | 420.5      | 466.0           | 464.7            | 1.29               | 361.360   |            |
| 450.0   | 450.0          | 412.0          | 411.4          | 0.8             | 0.8    | 64.56             | 201.1                  | 422.9      | 470.1           | 468.7            | 1.45               | 323.404   |            |
| 500.0   | 500.0          | 457.7          | 456.9          | 0.9             | 0.9    | -162.35           | 204.9                  | 425.8      | 475.0           | 473.3            | 1.66               | 285.666   |            |
| 600.0   | 600.0          | 546.0          | 544.6          | 1.0             | 1.1    | -162.87           | 212.8                  | 432.6      | 487.5           | 485.5            | 2.01               | 243.034   |            |
| 700.0   | 699.9          | 643.4          | 641.1          | 1.2             | 1.4    | -163.56           | 222.8                  | 440.7      | 502.8           | 500.5            | 2.37               | 212.270   |            |
| 800.0   | 799.8          | 740.0          | 736.8          | 1.4             | 1.6    | -164.30           | 233.3                  | 448.8      | 520.3           | 517.5            | 2.73               | 190.508   |            |
| 900.0   | 899.5          | 838.3          | 834.1          | 1.6             | 1.9    | -165.08           | 244.2                  | 457.2      | 539.8           | 536.7            | 3.09               | 174.480   |            |
| 1,000.0   | 999.2          | 937.8          | 932.8          | 1.8             | 2.2    | -165.85           | 255.1                  | 465.3      | 560.5           | 557.0            | 3.46               | 162.080   |            |
| 1,108.4   | 1,106.9        | 1,038.7        | 1,032.6        | 2.1             | 2.5    | -166.66           | 266.6                  | 473.4      | 585.2           | 581.4            | 3.84               | 152.423   |            |
| 1,200.0   | 1,197.9        | 1,126.2        | 1,119.1        | 2.3             | 2.8    | -167.41           | 277.2                  | 480.8      | 607.6           | 603.4            | 4.17               | 145.810   |            |
| 1,300.0   | 1,297.3        | 1,224.6        | 1,216.5        | 2.5             | 3.1    | -168.17           | 288.8                  | 489.1      | 632.0           | 627.5            | 4.53               | 139.596   |            |
| 1,400.0   | 1,396.6        | 1,324.7        | 1,315.6        | 2.8             | 3.4    | -168.88           | 300.3                  | 497.3      | 656.1           | 651.2            | 4.89               | 134.266   |            |
| 1,500.0   | 1,496.0        | 1,422.6        | 1,412.6        | 3.0             | 3.7    | -169.50           | 311.1                  | 505.1      | 679.9           | 674.7            | 5.24               | 129.694   |            |
| 1,600.0   | 1,595.3        | 1,521.9        | 1,511.0        | 3.3             | 4.0    | -170.10           | 322.2                  | 512.8      | 703.6           | 698.0            | 5.60               | 125.698   |            |
| 1,700.0   | 1,694.7        | 1,619.7        | 1,608.0        | 3.5             | 4.2    | -170.59           | 332.3                  | 520.5      | 727.1           | 721.2            | 5.94               | 122.376   |            |
| 1,800.0   | 1,794.0        | 1,714.9        | 1,702.3        | 3.8             | 4.5    | -170.99           | 341.6                  | 528.5      | 750.7           | 744.4            | 6.28               | 119.453   |            |
| 1,900.0   | 1,893.3        | 1,806.1        | 1,792.7        | 4.0             | 4.8    | -171.39           | 351.3                  | 536.2      | 774.9           | 768.2            | 6.62               | 117.029   |            |
| 2,000.0   | 1,992.7        | 1,898.5        | 1,884.2        | 4.3             | 5.1    | -171.75           | 361.2                  | 544.6      | 799.7           | 792.7            | 6.95               | 115.017   |            |
| 2,100.0   | 2,092.0        | 1,993.8        | 1,978.5        | 4.6             | 5.3    | -172.05           | 371.1                  | 554.1      | 824.9           | 817.6            | 7.29               | 113.136   |            |
| 2,200.0   | 2,191.4        | 2,088.8        | 2,072.5        | 4.8             | 5.6    | -172.38           | 381.5                  | 563.2      | 850.3           | 842.6            | 7.63               | 111.382   |            |
| 2,300.0   | 2,290.7        | 2,194.3        | 2,176.9        | 5.1             | 6.0    | -172.81           | 393.9                  | 572.3      | 875.4           | 867.4            | 8.00               | 109.462   |            |
| 2,400.0   | 2,390.0        | 2,301.5        | 2,283.1        | 5.3             | 6.3    | -173.21           | 405.7                  | 580.6      | 899.4           | 891.0            | 8.36               | 107.617   |            |
| 2,500.0   | 2,489.4        | 2,394.0        | 2,374.8        | 5.6             | 6.5    | -173.50           | 415.3                  | 587.9      | 923.1           | 914.4            | 8.69               | 106.198   |            |
| 2,600.0   | 2,588.7        | 2,480.7        | 2,460.7        | 5.9             | 6.8    | -173.78           | 424.9                  | 595.0      | 947.6           | 938.6            | 9.02               | 105.039   |            |
| 2,700.0   | 2,688.1        | 2,583.1        | 2,562.0        | 6.1             | 7.1    | -174.14           | 436.9                  | 603.4      | 972.4           | 963.0            | 9.38               | 103.717   |            |
| 2,800.0   | 2,787.4        | 2,677.1        | 2,655.1        | 6.4             | 7.4    | -174.43           | 447.6                  | 611.0      | 997.0           | 987.3            | 9.71               | 102.643   |            |
| 2,900.0   | 2,886.7        | 2,778.2        | 2,755.2        | 6.7             | 7.7    | -174.70           | 458.7                  | 619.5      | 1,021.7         | 1,011.6          | 10.06              | 101.540   |            |
| 3,000.0   | 2,986.1        | 2,881.7        | 2,857.8        | 6.9             | 8.0    | -174.95           | 469.6                  | 627.8      | 1,045.7         | 1,035.2          | 10.42              | 100.398   |            |
| 3,100.0   | 3,085.4        | 2,971.5        | 2,946.8        | 7.2             | 8.2    | -175.18           | 479.3                  | 634.9      | 1,069.8         | 1,059.1          | 10.75              | 99.558    |            |
| 3,200.0   | 3,184.8        | 3,074.3        | 3,048.7        | 7.5             | 8.5    | -175.43           | 490.4                  | 643.1      | 1,094.1         | 1,083.0          | 11.10              | 98.579    |            |
| 3,300.0   | 3,284.1        | 3,178.9        | 3,152.4        | 7.7             | 8.8    | -175.69           | 501.6                  | 650.7      | 1,117.7         | 1,106.3          | 11.45              | 97.577    |            |
| 3,400.0   | 3,383.4        | 3,281.7        | 3,254.5        | 8.0             | 9.1    | -175.90           | 511.8                  | 657.9      | 1,140.7         | 1,128.9          | 11.81              | 96.621    |            |
| 3,500.0   | 3,482.8        | 3,378.9        | 3,351.0        | 8.2             | 9.4    | -176.10           | 521.3                  | 664.7      | 1,163.6         | 1,151.5          | 12.15              | 95.787    |            |
| 3,600.0   | 3,582.1        | 3,479.4        | 3,450.7        | 8.5             | 9.7    | -176.30           | 531.0                  | 671.6      | 1,186.3         | 1,173.8          | 12.50              | 94.927    |            |
| 3,700.0   | 3,681.5        | 3,573.5        | 3,544.1        | 8.8             | 9.9    | -176.50           | 540.6                  | 677.6      | 1,209.0         | 1,196.2          | 12.84              | 94.187    |            |
| 3,800.0   | 3,780.8        | 3,662.3        | 3,632.3        | 9.0             | 10.2   | -176.69           | 549.9                  | 683.5      | 1,232.2         | 1,219.1          | 13.16              | 93.601    |            |
| 3,900.0   | 3,880.1        | 3,749.6        | 3,718.8        | 9.3             | 10.4   | -176.84           | 559.0                  | 690.4      | 1,256.2         | 1,242.7          | 13.49              | 93.142    |            |
| 4,000.0   | 3,979.5        | 3,840.7        | 3,809.1        | 9.6             | 10.7   | -176.96           | 568.4                  | 698.3      | 1,280.8         | 1,267.0          | 13.82              | 92.698    |            |
| 4,100.0   | 4,078.8        | 3,931.1        | 3,898.6        | 9.8             | 11.0   | -177.10           | 578.4                  | 706.1      | 1,305.8         | 1,291.7          | 14.15              | 92.288    |            |
| 4,200.0   | 4,178.2        | 4,018.1        | 3,984.6        | 10.1            | 11.2   | -177.27           | 589.1                  | 713.5      | 1,331.5         | 1,317.0          | 14.48              | 91.968 SF |            |

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Site Error: 0.0 ft |  |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 60-MWD  |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                        |                   | Offset Well Error: 0.0 ft |  |
| Reference   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                        |                   | 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                 | 3.1                 | 3.1                 | 0.0             | 0.0         | 68.49                 | 167.6                             | 425.3      | 457.1                |                       |                        |                   |                           |  |
| 100.0   | 100.0               | 104.9               | 104.9               | 0.2             | 0.2         | 68.55                 | 167.0                             | 425.1      | 456.7                | 456.4                 | 0.31                   | 1,487.357         |                           |  |
| 192.8   | 192.8               | 195.9               | 195.8               | 0.3             | 0.3         | 68.78                 | 165.2                             | 425.5      | 456.4                | 455.8                 | 0.63                   | 725.886 CC        |                           |  |
| 200.0   | 200.0               | 202.4               | 202.4               | 0.3             | 0.3         | 68.81                 | 165.0                             | 425.5      | 456.4                | 455.8                 | 0.65                   | 699.075 ES        |                           |  |
| 300.0   | 300.0               | 299.0               | 298.9               | 0.5             | 0.5         | 69.42                 | 160.6                             | 427.7      | 456.9                | 455.9                 | 1.00                   | 454.607           |                           |  |
| 400.0   | 400.0               | 392.1               | 391.6               | 0.7             | 0.7         | 70.39                 | 153.7                             | 431.6      | 458.3                | 456.9                 | 1.37                   | 334.957           |                           |  |
| 450.0   | 450.0               | 436.3               | 435.5               | 0.8             | 0.8         | 70.96                 | 150.0                             | 434.5      | 460.0                | 458.4                 | 1.55                   | 295.803           |                           |  |
| 500.0   | 500.0               | 484.3               | 483.2               | 0.9             | 0.9         | -155.04               | 145.5                             | 438.0      | 462.2                | 460.4                 | 1.79                   | 258.052           |                           |  |
| 600.0   | 600.0               | 581.9               | 579.9               | 1.0             | 1.2         | -153.63               | 135.5                             | 445.9      | 468.4                | 466.2                 | 2.22                   | 210.928           |                           |  |
| 700.0   | 699.9               | 685.9               | 682.9               | 1.2             | 1.5         | -152.14               | 123.8                             | 454.3      | 476.1                | 473.5                 | 2.68                   | 177.845           |                           |  |
| 800.0   | 799.8               | 789.0               | 785.2               | 1.4             | 1.8         | -150.88               | 112.6                             | 461.7      | 484.9                | 481.8                 | 3.13                   | 155.024           |                           |  |
| 900.0   | 899.5               | 887.3               | 882.6               | 1.6             | 2.1         | -149.76               | 101.3                             | 468.2      | 494.6                | 491.1                 | 3.58                   | 138.187           |                           |  |
| 1,000.0   | 999.2               | 981.1               | 975.5               | 1.8             | 2.4         | -148.68               | 89.6                              | 475.3      | 506.7                | 502.7                 | 4.03                   | 125.598           |                           |  |
| 1,108.4   | 1,106.9             | 1,078.4             | 1,071.5             | 2.1             | 2.7         | -147.66               | 77.4                              | 484.0      | 523.2                | 518.7                 | 4.51                   | 115.997           |                           |  |
| 1,200.0   | 1,197.9             | 1,173.9             | 1,166.0             | 2.3             | 3.0         | -146.95               | 66.6                              | 492.9      | 538.5                | 533.6                 | 4.95                   | 108.846           |                           |  |
| 1,300.0   | 1,297.3             | 1,272.4             | 1,263.5             | 2.5             | 3.3         | -146.29               | 55.5                              | 501.4      | 554.5                | 549.1                 | 5.42                   | 102.403           |                           |  |
| 1,400.0   | 1,396.6             | 1,373.6             | 1,363.7             | 2.8             | 3.6         | -145.62               | 43.8                              | 510.0      | 570.5                | 564.6                 | 5.89                   | 96.808            |                           |  |
| 1,500.0   | 1,496.0             | 1,467.8             | 1,456.9             | 3.0             | 3.9         | -145.05               | 33.2                              | 518.1      | 586.7                | 580.3                 | 6.35                   | 92.441            |                           |  |
| 1,600.0   | 1,595.3             | 1,566.0             | 1,554.1             | 3.3             | 4.1         | -144.51               | 22.3                              | 526.8      | 603.2                | 596.4                 | 6.81                   | 88.525            |                           |  |
| 1,700.0   | 1,694.7             | 1,661.4             | 1,648.6             | 3.5             | 4.4         | -143.98               | 11.5                              | 535.6      | 620.1                | 612.8                 | 7.28                   | 85.171            |                           |  |
| 1,800.0   | 1,794.0             | 1,764.9             | 1,751.0             | 3.8             | 4.7         | -143.50               | 0.4                               | 544.9      | 636.8                | 629.1                 | 7.75                   | 82.167            |                           |  |
| 1,900.0   | 1,893.3             | 1,864.9             | 1,850.1             | 4.0             | 5.0         | -143.07               | -10.3                             | 553.4      | 653.2                | 645.0                 | 8.22                   | 79.462            |                           |  |
| 2,000.0   | 1,992.7             | 1,969.1             | 1,953.4             | 4.3             | 5.3         | -142.70               | -20.8                             | 561.6      | 669.0                | 660.3                 | 8.69                   | 77.007            |                           |  |
| 2,100.0   | 2,092.0             | 2,069.1             | 2,052.6             | 4.6             | 5.6         | -142.36               | -31.0                             | 568.9      | 684.3                | 675.1                 | 9.16                   | 74.745            |                           |  |
| 2,200.0   | 2,191.4             | 2,166.1             | 2,148.8             | 4.8             | 5.9         | -141.99               | -41.6                             | 576.2      | 699.7                | 690.1                 | 9.62                   | 72.737            |                           |  |
| 2,300.0   | 2,290.7             | 2,264.3             | 2,246.1             | 5.1             | 6.2         | -141.63               | -52.2                             | 583.7      | 715.3                | 705.3                 | 10.08                  | 70.945            |                           |  |
| 2,400.0   | 2,390.0             | 2,366.0             | 2,347.0             | 5.3             | 6.5         | -141.31               | -62.8                             | 591.3      | 730.8                | 720.3                 | 10.56                  | 69.230            |                           |  |
| 2,500.0   | 2,489.4             | 2,465.4             | 2,445.4             | 5.6             | 6.8         | -140.95               | -74.0                             | 598.3      | 745.9                | 734.8                 | 11.04                  | 67.568            |                           |  |
| 2,600.0   | 2,588.7             | 2,558.0             | 2,537.0             | 5.9             | 7.1         | -140.54               | -85.5                             | 605.4      | 761.5                | 749.9                 | 11.51                  | 66.150            |                           |  |
| 2,700.0   | 2,688.1             | 2,648.1             | 2,626.2             | 6.1             | 7.3         | -140.15               | -96.6                             | 613.2      | 778.0                | 766.0                 | 11.97                  | 64.978            |                           |  |
| 2,800.0   | 2,787.4             | 2,742.9             | 2,719.8             | 6.4             | 7.6         | -139.79               | -108.0                            | 622.3      | 795.6                | 783.2                 | 12.44                  | 63.943            |                           |  |
| 2,900.0   | 2,886.7             | 2,847.0             | 2,822.8             | 6.7             | 8.0         | -139.45               | -119.8                            | 631.8      | 812.8                | 799.9                 | 12.93                  | 62.852            |                           |  |
| 3,000.0   | 2,986.1             | 2,946.3             | 2,921.1             | 6.9             | 8.3         | -139.14               | -131.2                            | 640.5      | 829.6                | 816.2                 | 13.41                  | 61.844            |                           |  |
| 3,100.0   | 3,085.4             | 3,045.9             | 3,019.6             | 7.2             | 8.6         | -138.81               | -143.0                            | 649.2      | 846.5                | 832.6                 | 13.89                  | 60.935            |                           |  |
| 3,200.0   | 3,184.8             | 3,151.4             | 3,124.1             | 7.5             | 8.9         | -138.57               | -154.2                            | 657.9      | 862.9                | 848.6                 | 14.37                  | 60.035            |                           |  |
| 3,300.0   | 3,284.1             | 3,244.0             | 3,215.8             | 7.7             | 9.2         | -138.35               | -164.2                            | 665.2      | 879.0                | 864.2                 | 14.84                  | 59.243            |                           |  |
| 3,400.0   | 3,383.4             | 3,344.7             | 3,315.5             | 8.0             | 9.5         | -138.06               | -176.1                            | 674.0      | 895.9                | 880.6                 | 15.32                  | 58.470            |                           |  |
| 3,500.0   | 3,482.8             | 3,443.4             | 3,413.2             | 8.2             | 9.8         | -137.81               | -187.3                            | 682.0      | 912.1                | 896.4                 | 15.79                  | 57.756            |                           |  |
| 3,600.0   | 3,582.1             | 3,541.5             | 3,510.4             | 8.5             | 10.0        | -137.62               | -197.7                            | 690.1      | 928.7                | 912.4                 | 16.26                  | 57.125            |                           |  |
| 3,700.0   | 3,681.5             | 3,644.4             | 3,612.5             | 8.8             | 10.3        | -137.43               | -208.5                            | 698.4      | 945.0                | 928.3                 | 16.74                  | 56.465            |                           |  |
| 3,800.0   | 3,780.8             | 3,749.5             | 3,716.7             | 9.0             | 10.6        | -137.24               | -219.6                            | 706.3      | 960.7                | 943.5                 | 17.22                  | 55.803            |                           |  |
| 3,900.0   | 3,880.1             | 3,850.2             | 3,816.5             | 9.3             | 10.9        | -137.05               | -230.5                            | 713.4      | 976.0                | 958.3                 | 17.70                  | 55.146            |                           |  |
| 4,000.0   | 3,979.5             | 3,950.6             | 3,916.0             | 9.6             | 11.2        | -136.86               | -241.6                            | 720.3      | 991.2                | 973.0                 | 18.17                  | 54.541            |                           |  |
| 4,100.0   | 4,078.8             | 4,045.0             | 4,009.7             | 9.8             | 11.5        | -136.68               | -252.0                            | 726.9      | 1,006.5              | 987.8                 | 18.64                  | 54.006            |                           |  |
| 4,200.0   | 4,178.2             | 4,140.4             | 4,104.1             | 10.1            | 11.8        | -136.51               | -262.5                            | 734.0      | 1,022.2              | 1,003.1               | 19.10                  | 53.519            |                           |  |
| 4,300.0   | 4,277.5             | 4,256.8             | 4,219.8             | 10.4            | 12.1        | -136.35               | -274.5                            | 741.7      | 1,037.1              | 1,017.5               | 19.60                  | 52.915            |                           |  |
| 4,400.0   | 4,376.8             | 4,360.2             | 4,322.6             | 10.6            | 12.3        | -136.27               | -284.1                            | 747.4      | 1,050.9              | 1,030.8               | 20.06                  | 52.376            |                           |  |
| 4,500.0   | 4,476.2             | 4,456.8             | 4,418.5             | 10.9            | 12.6        | -136.17               | -293.5                            | 752.8      | 1,064.8              | 1,044.3               | 20.52                  | 51.886            |                           |  |
| 4,600.0   | 4,575.5             | 4,550.3             | 4,511.4             | 11.2            | 12.8        | -136.07               | -302.8                            | 758.3      | 1,079.0              | 1,058.0               | 20.97                  | 51.462            |                           |  |
| 4,700.0   | 4,674.9             | 4,651.0             | 4,611.4             | 11.4            | 13.1        | -135.98               | -312.6                            | 764.5      | 1,093.5              | 1,072.1               | 21.44                  | 51.013            |                           |  |
| 4,800.0   | 4,774.2             | 4,735.3             | 4,695.0             | 11.7            | 13.3        | -135.88               | -321.3                            | 769.9      | 1,108.3              | 1,086.4               | 21.87                  | 50.687            |                           |  |
| 4,900.0   | 4,873.5             | 4,826.8             | 4,785.8             | 12.0            | 13.6        | -135.78               | -330.5                            | 777.2      | 1,124.5              | 1,102.2               | 22.31                  | 50.413            |                           |  |

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

# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS |                |                |                |                 |        |                   |                        |            |                 |                  | Offset Site Error:     |                   | 0.0 ft  |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|---------|
| Survey Program: 60-MWD  |                |                |                |                 |        |                   |                        |            |                 |                  | Offset Well Error:     |                   | 0.0 ft  |
| Reference   |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                        |                   | Warning |
| Measured Depth  | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor |         |
| (ft)  | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             |                        |                   |         |
| 5,000.0   | 4,972.9        | 4,923.4        | 4,881.6        | 12.2            | 13.9   | -135.70           | -339.9                 | 784.9      | 1,140.8         | 1,118.1          | 22.77                  | 50.108            |         |
| 5,100.0   | 5,072.2        | 5,018.7        | 4,976.1        | 12.5            | 14.2   | -135.58           | -349.9                 | 792.8      | 1,157.5         | 1,134.2          | 23.22                  | 49.838            |         |
| 5,200.0   | 5,171.6        | 5,130.2        | 5,086.7        | 12.7            | 14.5   | -135.51           | -360.4                 | 801.6      | 1,173.7         | 1,150.0          | 23.70                  | 49.516            |         |
| 5,300.0   | 5,270.9        | 5,221.4        | 5,177.4        | 13.0            | 14.7   | -135.50           | -368.0                 | 808.5      | 1,189.5         | 1,165.4          | 24.13                  | 49.290            |         |
| 5,400.0   | 5,370.3        | 5,304.5        | 5,259.9        | 13.3            | 14.9   | -135.48           | -375.3                 | 815.6      | 1,206.4         | 1,181.8          | 24.55                  | 49.142            |         |
| 5,500.0   | 5,469.6        | 5,393.5        | 5,348.1        | 13.5            | 15.2   | -135.42           | -383.7                 | 824.4      | 1,224.5         | 1,199.5          | 24.99                  | 49.004            |         |
| 5,600.0   | 5,568.9        | 5,496.2        | 5,449.6        | 13.8            | 15.5   | -135.34           | -393.9                 | 834.6      | 1,242.8         | 1,217.3          | 25.45                  | 48.827            |         |
| 5,700.0   | 5,668.3        | 5,608.9        | 5,561.4        | 14.1            | 15.8   | -135.28           | -404.4                 | 844.9      | 1,260.2         | 1,234.3          | 25.94                  | 48.578            |         |
| 5,800.0   | 5,767.6        | 5,702.2        | 5,653.9        | 14.3            | 16.1   | -135.21           | -413.7                 | 853.0      | 1,277.2         | 1,250.8          | 26.39                  | 48.388            |         |
| 5,900.0   | 5,867.0        | 5,817.5        | 5,768.3        | 14.6            | 16.4   | -135.15           | -424.5                 | 862.8      | 1,294.0         | 1,267.1          | 26.87                  | 48.151            |         |
| 6,000.0   | 5,966.3        | 5,939.0        | 5,889.2        | 14.9            | 16.7   | -135.20           | -433.4                 | 871.0      | 1,309.0         | 1,281.6          | 27.34                  | 47.871            |         |
| 6,100.0   | 6,065.6        | 6,048.1        | 5,997.9        | 15.1            | 16.9   | -135.33           | -439.4                 | 877.1      | 1,322.9         | 1,295.1          | 27.77                  | 47.644            |         |
| 6,200.0   | 6,165.0        | 6,160.3        | 6,109.9        | 15.4            | 17.1   | -135.53           | -443.8                 | 882.5      | 1,336.0         | 1,307.8          | 28.18                  | 47.407            |         |
| 6,300.0   | 6,264.3        | 6,266.6        | 6,216.1        | 15.7            | 17.3   | -135.76           | -447.0                 | 886.7      | 1,348.1         | 1,319.6          | 28.57                  | 47.186 SF         |         |

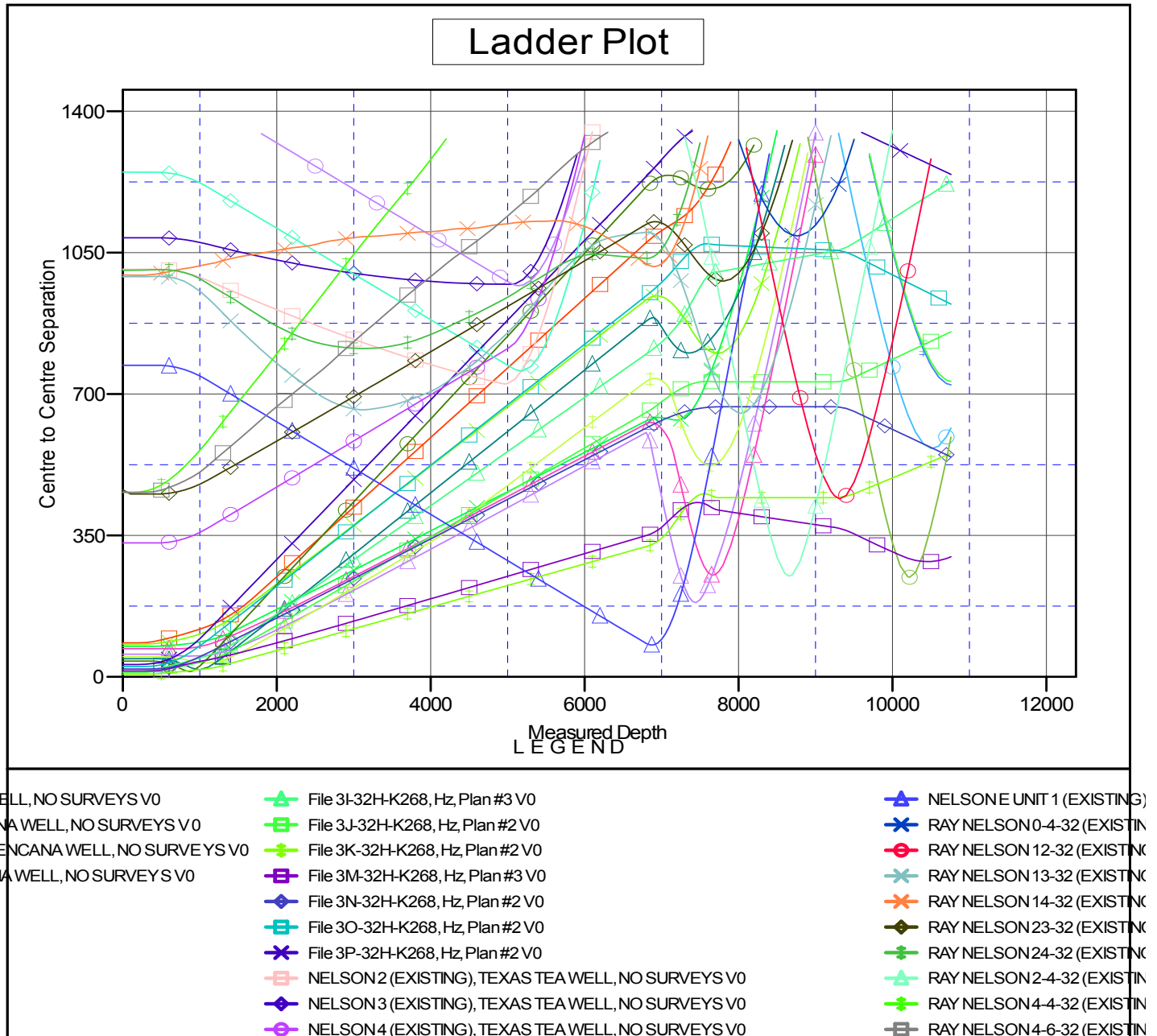
# Cathedral Energy Services

## Anticollision Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | EnCana Oil & Gas (USA) Inc | <b>Local Co-ordinate Reference:</b> | Well File 3L-32H-K268                |
| <b>Project:</b>           | DJ Wattenberg              | <b>TVD Reference:</b>               | WELL @ 4971.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | S32-T2N-R68W (File/Hwy 52) | <b>MD Reference:</b>                | WELL @ 4971.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                      | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | File 3L-32H-K268           | <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 #3                    | <b>Offset TVD Reference:</b>        | Offset Datum                         |

Reference Depths are relative to WELL @ 4971.0ft (Original Well Elev)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: File 3L-32H-K268  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.30°



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