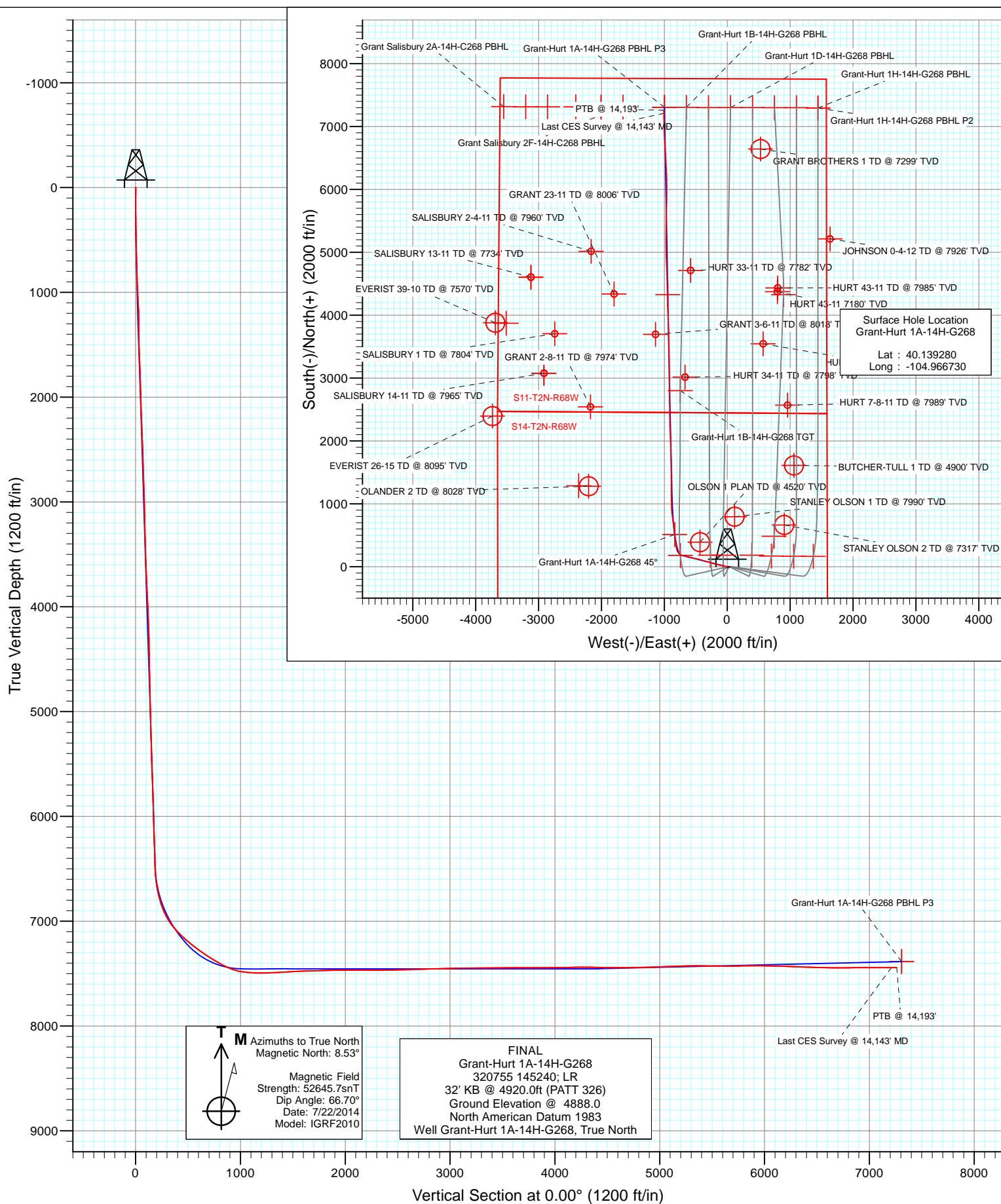


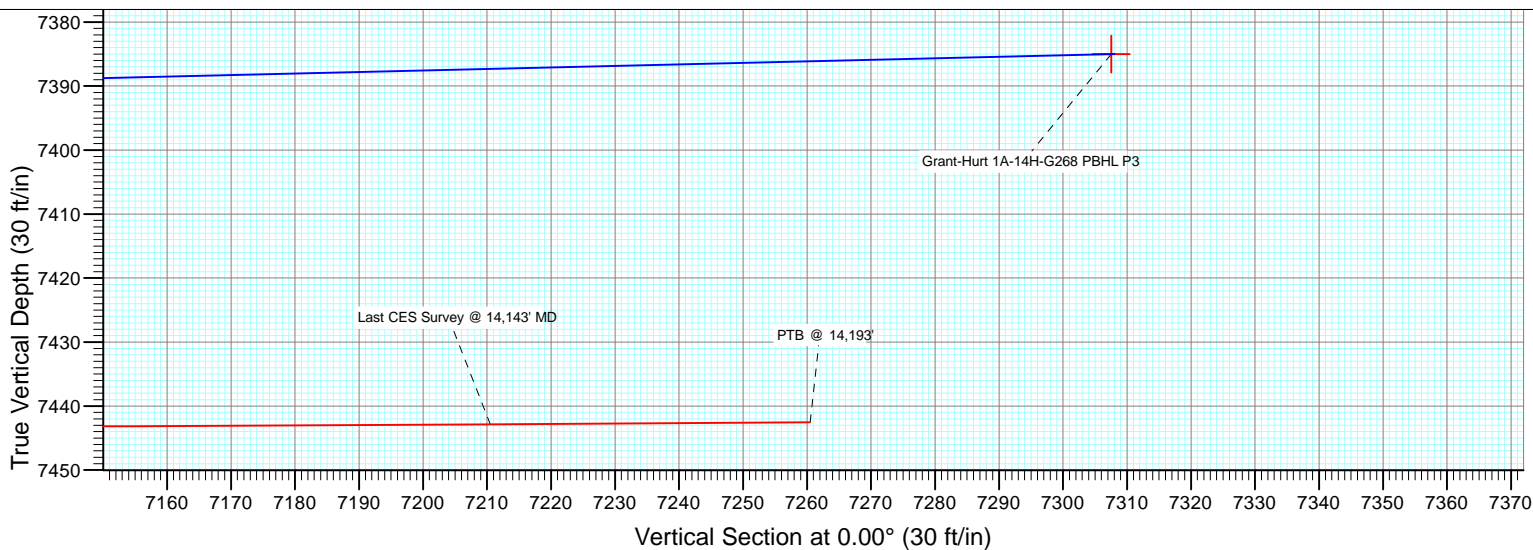
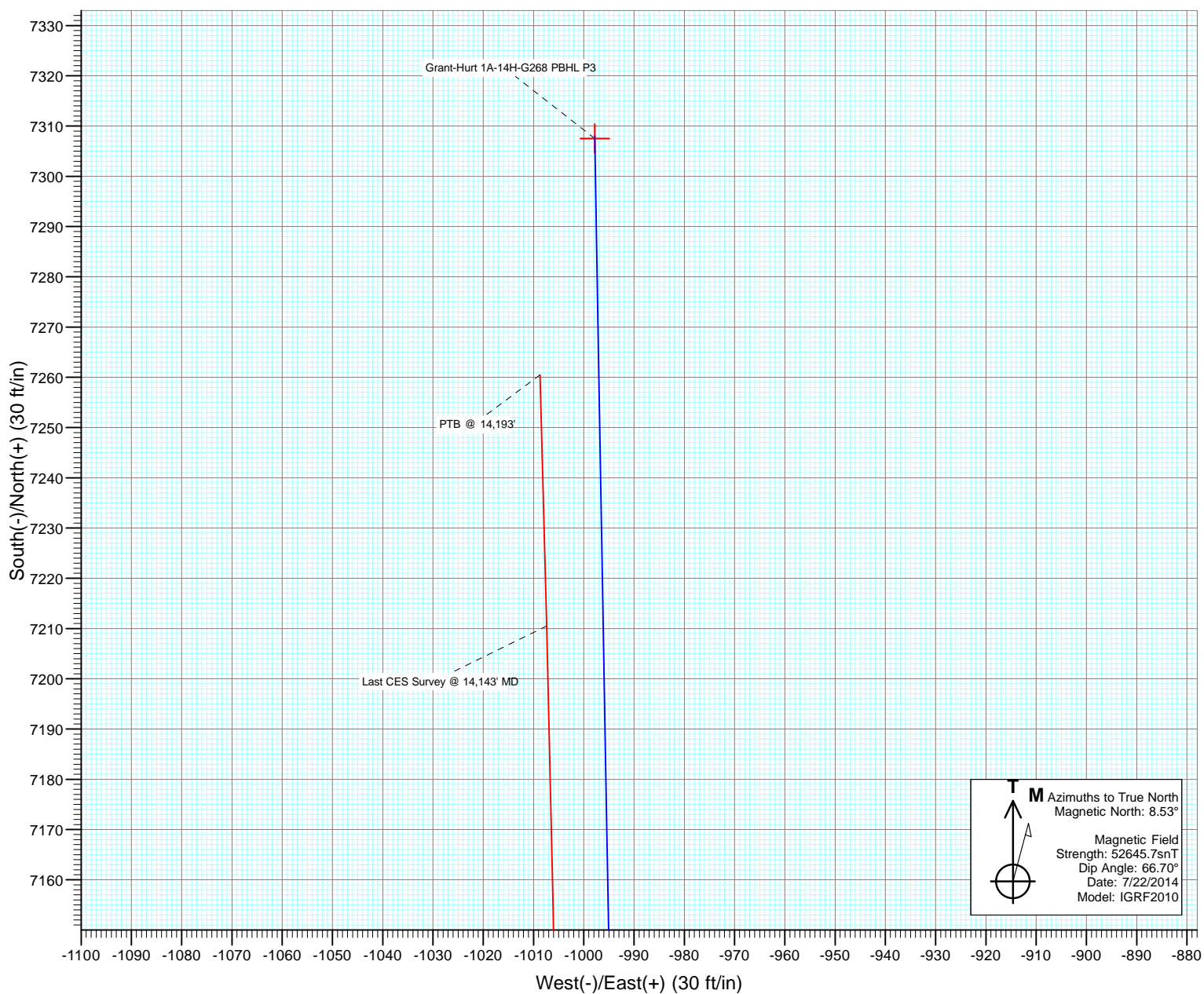


Project: DJ Wattenberg  
Site: S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)  
Well: Grant-Hurt 1A-14H-G268  
Wellbore: Hz  
Design: FINAL





Project: DJ Wattenberg  
Site: S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)  
Well: Grant-Hurt 1A-14H-G268  
Wellbore: Hz  
Design: FINAL



# Cathedral Energy Services

## Survey Report

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <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                  |          | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) |                 |                   |             |
|-----------------------|----------|--|-----------------|-------------------|-------------|
| Site Position:        |          | Northing:                                    | 1,295,686.81 ft | Latitude:         | 40.143850   |
| From:                 | Lat/Long | Easting:                                     | 3,147,060.98 ft | Longitude:        | -104.973980 |
| Position Uncertainty: | 0.0 ft   | Slot Radius:                                 | 13.200 in       | Grid Convergence: | 0.34 °      |

|                      |                        |        |                     |                 |               |             |
|----------------------|------------------------|--------|---------------------|-----------------|---------------|-------------|
| Well                 | Grant-Hurt 1A-14H-G268 |        |                     |                 |               |             |
| Well Position        | +N/-S                  | 0.0 ft | Northing:           | 1,294,034.16 ft | Latitude:     | 40.139280   |
|                      | +E/-W                  | 0.0 ft | Easting:            | 3,149,097.79 ft | Longitude:    | -104.966730 |
| Position Uncertainty |                        | 0.0 ft | Wellhead Elevation: | ft              | Ground Level: | 4,888.0 ft  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Hz                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 7/22/2014          | 8.53                   | 66.70                | 52,646                     |

|                          |                         |               |              |                      |     |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| <b>Design</b>            | FINAL                   |               |              |                      |     |
| <b>Audit Notes:</b>      |                         |               |              |                      |     |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |     |
|                          | (ft)                    | (ft)          | (ft)         | (°)                  |     |
|                          | 0.0                     | 0.0           | 0.0          | 0.00                 |     |

|                       |                |                          |                  |                    |  |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 7/29/2014                |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| 146.0                 | 14,193.0       | Survey #1 (Hz)           | Geolink MWD      | Geolink MWD        |  |

|                            |                        |                    |                            |                   |                   |                              |                              |                             |                              |  |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|------------------------------|--|
| <b>Survey</b>              |                        |                    |                            |                   |                   |                              |                              |                             |                              |  |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Formations / Comments</b> |  |
| 0.0                        | 0.00                   | 0.00               | 0.0                        | 0.0               | 0.0               | 0.0                          | 0.00                         | 0.00                        |                              |  |
| 146.0                      | 0.90                   | 252.70             | 146.0                      | -0.3              | -1.1              | -0.3                         | 0.62                         | 0.62                        |                              |  |
| 241.0                      | 2.30                   | 279.90             | 241.0                      | -0.2              | -3.7              | -0.2                         | 1.64                         | 1.47                        |                              |  |
| 335.0                      | 3.30                   | 281.80             | 334.8                      | 0.6               | -8.2              | 0.6                          | 1.07                         | 1.06                        |                              |  |
| 430.0                      | 4.50                   | 287.10             | 429.6                      | 2.3               | -14.4             | 2.3                          | 1.32                         | 1.26                        |                              |  |
| 525.0                      | 5.40                   | 283.20             | 524.3                      | 4.4               | -22.3             | 4.4                          | 1.01                         | 0.95                        |                              |  |
| 620.0                      | 6.60                   | 281.70             | 618.7                      | 6.5               | -32.0             | 6.5                          | 1.27                         | 1.26                        |                              |  |
| 714.0                      | 6.30                   | 285.60             | 712.1                      | 9.0               | -42.3             | 9.0                          | 0.56                         | -0.32                       |                              |  |
| 809.0                      | 5.90                   | 285.60             | 806.6                      | 11.7              | -52.0             | 11.7                         | 0.42                         | -0.42                       |                              |  |
| 835.0                      | 5.80                   | 285.70             | 832.5                      | 12.5              | -54.6             | 12.5                         | 0.39                         | -0.38                       |                              |  |
| 912.0                      | 5.70                   | 283.70             | 909.1                      | 14.4              | -62.0             | 14.4                         | 0.29                         | -0.13                       |                              |  |
| 1,004.0                    | 9.00                   | 292.20             | 1,000.3                    | 18.2              | -73.1             | 18.2                         | 3.77                         | 3.59                        |                              |  |
| 1,095.0                    | 9.40                   | 294.60             | 1,090.2                    | 24.0              | -86.5             | 24.0                         | 0.61                         | 0.44                        |                              |  |

# Cathedral Energy Services

## Survey Report

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

### Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Formations / Comments |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 1,187.0             | 9.30            | 277.80      | 1,180.9             | 28.1       | -100.7     | 28.1                  | 2.96                  | -0.11                |                       |
| 1,279.0             | 9.60            | 269.70      | 1,271.7             | 29.1       | -115.7     | 29.1                  | 1.48                  | 0.33                 |                       |
| 1,372.0             | 5.90            | 276.70      | 1,363.8             | 29.6       | -128.2     | 29.6                  | 4.10                  | -3.98                |                       |
| 1,464.0             | 5.40            | 270.90      | 1,455.4             | 30.2       | -137.3     | 30.2                  | 0.82                  | -0.54                |                       |
| 1,556.0             | 6.50            | 291.60      | 1,546.9             | 32.2       | -146.4     | 32.2                  | 2.60                  | 1.20                 |                       |
| 1,648.0             | 6.30            | 292.10      | 1,638.3             | 36.0       | -155.9     | 36.0                  | 0.23                  | -0.22                |                       |
| 1,740.0             | 6.10            | 291.40      | 1,729.8             | 39.7       | -165.2     | 39.7                  | 0.23                  | -0.22                |                       |
| 1,833.0             | 8.80            | 283.10      | 1,822.0             | 43.1       | -176.7     | 43.1                  | 3.12                  | 2.90                 |                       |
| 1,925.0             | 8.40            | 283.40      | 1,913.0             | 46.3       | -190.1     | 46.3                  | 0.44                  | -0.43                |                       |
| 2,020.0             | 8.60            | 280.50      | 2,006.9             | 49.2       | -203.8     | 49.2                  | 0.50                  | 0.21                 |                       |
| 2,114.0             | 8.70            | 279.00      | 2,099.9             | 51.6       | -217.8     | 51.6                  | 0.26                  | 0.11                 |                       |
| 2,209.0             | 6.70            | 289.40      | 2,194.0             | 54.6       | -230.1     | 54.6                  | 2.56                  | -2.11                |                       |
| 2,303.0             | 6.60            | 287.70      | 2,287.4             | 58.0       | -240.4     | 58.0                  | 0.23                  | -0.11                |                       |
| 2,398.0             | 6.80            | 288.10      | 2,381.7             | 61.4       | -251.0     | 61.4                  | 0.22                  | 0.21                 |                       |
| 2,492.0             | 6.60            | 288.70      | 2,475.1             | 64.9       | -261.4     | 64.9                  | 0.23                  | -0.21                |                       |
| 2,586.0             | 6.50            | 289.10      | 2,568.5             | 68.4       | -271.5     | 68.4                  | 0.12                  | -0.11                |                       |
| 2,681.0             | 6.20            | 288.50      | 2,662.9             | 71.7       | -281.5     | 71.7                  | 0.32                  | -0.32                |                       |
| 2,776.0             | 6.20            | 288.80      | 2,757.3             | 75.0       | -291.2     | 75.0                  | 0.03                  | 0.00                 |                       |
| 2,871.0             | 6.00            | 289.90      | 2,851.8             | 78.4       | -300.7     | 78.4                  | 0.24                  | -0.21                |                       |
| 2,965.0             | 7.20            | 277.90      | 2,945.2             | 80.9       | -311.2     | 80.9                  | 1.94                  | 1.28                 |                       |
| 3,060.0             | 7.10            | 280.10      | 3,039.4             | 82.7       | -322.8     | 82.7                  | 0.31                  | -0.11                |                       |
| 3,155.0             | 6.80            | 280.00      | 3,133.7             | 84.7       | -334.1     | 84.7                  | 0.32                  | -0.32                |                       |
| 3,249.0             | 6.40            | 281.40      | 3,227.1             | 86.7       | -344.8     | 86.7                  | 0.46                  | -0.43                |                       |
| 3,344.0             | 5.90            | 283.20      | 3,321.6             | 88.9       | -354.7     | 88.9                  | 0.56                  | -0.53                |                       |
| 3,439.0             | 7.40            | 285.80      | 3,415.9             | 91.7       | -365.3     | 91.7                  | 1.61                  | 1.58                 |                       |
| 3,534.0             | 7.10            | 286.40      | 3,510.2             | 95.0       | -376.9     | 95.0                  | 0.33                  | -0.32                |                       |
| 3,629.0             | 6.40            | 286.40      | 3,604.5             | 98.1       | -387.6     | 98.1                  | 0.74                  | -0.74                |                       |
| 3,723.0             | 5.80            | 291.50      | 3,698.0             | 101.3      | -397.0     | 101.3                 | 0.86                  | -0.64                |                       |
| 3,818.0             | 8.30            | 289.00      | 3,792.2             | 105.3      | -408.0     | 105.3                 | 2.65                  | 2.63                 |                       |
| 3,913.0             | 8.30            | 291.10      | 3,886.2             | 110.0      | -420.9     | 110.0                 | 0.32                  | 0.00                 |                       |
| 4,008.0             | 7.90            | 289.80      | 3,980.3             | 114.7      | -433.4     | 114.7                 | 0.46                  | -0.42                |                       |
| 4,103.0             | 7.30            | 293.10      | 4,074.5             | 119.3      | -445.1     | 119.3                 | 0.78                  | -0.63                |                       |
| 4,198.0             | 6.90            | 281.30      | 4,168.7             | 122.8      | -456.2     | 122.8                 | 1.59                  | -0.42                |                       |
| 4,292.0             | 6.40            | 281.00      | 4,262.1             | 124.9      | -466.9     | 124.9                 | 0.53                  | -0.53                |                       |
| 4,387.0             | 6.30            | 282.20      | 4,356.5             | 127.0      | -477.2     | 127.0                 | 0.17                  | -0.11                |                       |
| 4,482.0             | 8.20            | 277.00      | 4,450.8             | 128.9      | -489.0     | 128.9                 | 2.11                  | 2.00                 |                       |
| 4,578.0             | 7.90            | 277.70      | 4,545.8             | 130.6      | -502.4     | 130.6                 | 0.33                  | -0.31                |                       |
| 4,673.0             | 6.80            | 279.40      | 4,640.0             | 132.4      | -514.4     | 132.4                 | 1.18                  | -1.16                |                       |
| 4,768.0             | 6.30            | 280.70      | 4,734.4             | 134.3      | -525.1     | 134.3                 | 0.55                  | -0.53                |                       |
| 4,862.0             | 5.70            | 281.80      | 4,827.9             | 136.2      | -534.7     | 136.2                 | 0.65                  | -0.64                |                       |
| 4,957.0             | 7.90            | 281.20      | 4,922.2             | 138.5      | -545.7     | 138.5                 | 2.32                  | 2.32                 |                       |
| 5,052.0             | 6.80            | 280.80      | 5,016.4             | 140.8      | -557.6     | 140.8                 | 1.16                  | -1.16                |                       |
| 5,147.0             | 5.80            | 283.50      | 5,110.9             | 143.0      | -567.8     | 143.0                 | 1.10                  | -1.05                |                       |
| 5,241.0             | 7.80            | 281.00      | 5,204.2             | 145.3      | -578.7     | 145.3                 | 2.15                  | 2.13                 |                       |
| 5,336.0             | 7.20            | 284.50      | 5,298.4             | 148.0      | -590.8     | 148.0                 | 0.79                  | -0.63                |                       |
| 5,430.0             | 6.10            | 283.00      | 5,391.8             | 150.6      | -601.4     | 150.6                 | 1.18                  | -1.17                |                       |
| 5,526.0             | 7.30            | 284.90      | 5,487.1             | 153.3      | -612.2     | 153.3                 | 1.27                  | 1.25                 |                       |
| 5,622.0             | 9.40            | 286.90      | 5,582.1             | 157.2      | -625.6     | 157.2                 | 2.21                  | 2.19                 |                       |
| 5,718.0             | 7.90            | 286.40      | 5,677.0             | 161.3      | -639.5     | 161.3                 | 1.56                  | -1.56                |                       |
| 5,814.0             | 7.20            | 287.10      | 5,772.1             | 165.0      | -651.5     | 165.0                 | 0.74                  | -0.73                |                       |
| 5,911.0             | 7.60            | 275.50      | 5,868.3             | 167.4      | -663.7     | 167.4                 | 1.59                  | 0.41                 |                       |
| 5,999.0             | 5.90            | 276.30      | 5,955.7             | 168.4      | -674.0     | 168.4                 | 1.93                  | -1.93                |                       |
| 6,094.0             | 6.90            | 289.60      | 6,050.1             | 170.9      | -684.3     | 170.9                 | 1.88                  | 1.05                 |                       |

# Cathedral Energy Services

## Survey Report

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

### Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Formations / Comments |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 6,188.0             | 5.60            | 290.80      | 6,143.6             | 174.4      | -693.9     | 174.4                 | 1.39                  | -1.38                |                       |
| 6,283.0             | 7.20            | 292.40      | 6,238.0             | 178.3      | -703.7     | 178.3                 | 1.69                  | 1.68                 |                       |
| 6,378.0             | 6.80            | 280.50      | 6,332.3             | 181.6      | -714.7     | 181.6                 | 1.58                  | -0.42                |                       |
| 6,472.0             | 5.40            | 283.20      | 6,425.8             | 183.6      | -724.5     | 183.6                 | 1.52                  | -1.49                |                       |
| 6,519.0             | 5.10            | 284.50      | 6,472.6             | 184.6      | -728.7     | 184.6                 | 0.69                  | -0.64                |                       |
| 6,567.0             | 8.30            | 292.50      | 6,520.2             | 186.5      | -734.0     | 186.5                 | 6.93                  | 6.67                 |                       |
| 6,614.0             | 10.30           | 295.30      | 6,566.6             | 189.6      | -740.9     | 189.6                 | 4.36                  | 4.26                 |                       |
| 6,661.0             | 12.00           | 303.30      | 6,612.7             | 194.1      | -748.8     | 194.1                 | 4.88                  | 3.62                 |                       |
| 6,708.0             | 13.10           | 307.90      | 6,658.6             | 200.0      | -757.1     | 200.0                 | 3.16                  | 2.34                 |                       |
| 6,756.0             | 15.20           | 319.70      | 6,705.1             | 208.2      | -765.4     | 208.2                 | 7.41                  | 4.37                 |                       |
| 6,803.0             | 17.20           | 324.90      | 6,750.3             | 218.6      | -773.4     | 218.6                 | 5.25                  | 4.26                 |                       |
| 6,851.0             | 19.10           | 328.70      | 6,795.9             | 231.1      | -781.6     | 231.1                 | 4.66                  | 3.96                 |                       |
| 6,898.0             | 19.70           | 329.80      | 6,840.2             | 244.5      | -789.6     | 244.5                 | 1.49                  | 1.28                 |                       |
| 6,945.0             | 23.20           | 337.80      | 6,884.0             | 259.9      | -797.0     | 259.9                 | 9.69                  | 7.45                 |                       |
| 6,992.0             | 26.80           | 345.60      | 6,926.6             | 278.8      | -803.2     | 278.8                 | 10.37                 | 7.66                 |                       |
| 7,040.0             | 29.30           | 349.80      | 6,968.9             | 300.8      | -808.0     | 300.8                 | 6.63                  | 5.21                 |                       |
| 7,087.0             | 33.90           | 351.60      | 7,009.0             | 325.1      | -811.9     | 325.1                 | 9.99                  | 9.79                 |                       |
| 7,134.0             | 39.00           | 352.20      | 7,046.7             | 352.8      | -815.8     | 352.8                 | 10.88                 | 10.85                |                       |
| 7,181.0             | 42.50           | 353.00      | 7,082.3             | 383.2      | -819.8     | 383.2                 | 7.53                  | 7.45                 |                       |
| 7,229.0             | 45.10           | 353.80      | 7,117.0             | 416.2      | -823.6     | 416.2                 | 5.54                  | 5.42                 |                       |
| 7,276.0             | 46.50           | 353.90      | 7,149.8             | 449.7      | -827.2     | 449.7                 | 2.98                  | 2.98                 |                       |
| 7,323.0             | 48.70           | 353.30      | 7,181.4             | 484.2      | -831.1     | 484.2                 | 4.77                  | 4.68                 |                       |
| 7,370.0             | 51.10           | 352.40      | 7,211.7             | 519.8      | -835.5     | 519.8                 | 5.31                  | 5.11                 |                       |
| 7,418.0             | 52.80           | 352.40      | 7,241.3             | 557.3      | -840.5     | 557.3                 | 3.54                  | 3.54                 |                       |
| 7,465.0             | 53.70           | 352.40      | 7,269.4             | 594.6      | -845.5     | 594.6                 | 1.91                  | 1.91                 |                       |
| 7,512.0             | 55.40           | 352.40      | 7,296.7             | 632.6      | -850.6     | 632.6                 | 3.62                  | 3.62                 |                       |
| 7,559.0             | 57.20           | 352.30      | 7,322.8             | 671.3      | -855.8     | 671.3                 | 3.83                  | 3.83                 |                       |
| 7,607.0             | 57.50           | 352.30      | 7,348.7             | 711.4      | -861.2     | 711.4                 | 0.62                  | 0.62                 |                       |
| 7,654.0             | 59.00           | 353.90      | 7,373.4             | 751.0      | -866.0     | 751.0                 | 4.31                  | 3.19                 |                       |
| 7,701.0             | 60.70           | 353.50      | 7,397.0             | 791.4      | -870.5     | 791.4                 | 3.69                  | 3.62                 |                       |
| 7,748.0             | 62.70           | 351.80      | 7,419.3             | 832.5      | -875.8     | 832.5                 | 5.31                  | 4.26                 |                       |
| 7,796.0             | 65.80           | 354.30      | 7,440.1             | 875.4      | -881.0     | 875.4                 | 7.98                  | 6.46                 |                       |
| 7,843.0             | 69.80           | 357.40      | 7,457.9             | 918.8      | -884.1     | 918.8                 | 10.47                 | 8.51                 |                       |
| 7,890.0             | 75.30           | 358.40      | 7,472.0             | 963.6      | -885.8     | 963.6                 | 11.88                 | 11.70                |                       |
| 7,917.0             | 80.00           | 359.30      | 7,477.7             | 989.9      | -886.3     | 989.9                 | 17.71                 | 17.41                |                       |
| 7,990.0             | 84.20           | 359.40      | 7,487.8             | 1,062.2    | -887.1     | 1,062.2               | 5.75                  | 5.75                 |                       |
| 8,083.0             | 88.00           | 358.70      | 7,494.1             | 1,155.0    | -888.6     | 1,155.0               | 4.15                  | 4.09                 |                       |
| 8,174.0             | 91.60           | 0.80        | 7,494.4             | 1,246.0    | -889.0     | 1,246.0               | 4.58                  | 3.96                 |                       |
| 8,266.0             | 93.80           | 359.70      | 7,490.1             | 1,337.8    | -888.6     | 1,337.8               | 2.67                  | 2.39                 |                       |
| 8,359.0             | 94.00           | 359.30      | 7,483.8             | 1,430.6    | -889.4     | 1,430.6               | 0.48                  | 0.22                 |                       |
| 8,451.0             | 92.20           | 359.70      | 7,478.8             | 1,522.5    | -890.2     | 1,522.5               | 2.00                  | -1.96                |                       |
| 8,544.0             | 91.30           | 359.00      | 7,475.9             | 1,615.4    | -891.3     | 1,615.4               | 1.23                  | -0.97                |                       |
| 8,636.0             | 92.00           | 359.10      | 7,473.3             | 1,707.4    | -892.8     | 1,707.4               | 0.77                  | 0.76                 |                       |
| 8,727.0             | 92.10           | 358.60      | 7,470.0             | 1,798.3    | -894.7     | 1,798.3               | 0.56                  | 0.11                 |                       |
| 8,819.0             | 90.90           | 358.00      | 7,467.6             | 1,890.2    | -897.4     | 1,890.2               | 1.46                  | -1.30                |                       |
| 8,911.0             | 89.80           | 357.70      | 7,467.1             | 1,982.2    | -900.8     | 1,982.2               | 1.24                  | -1.20                |                       |
| 9,004.0             | 89.80           | 356.90      | 7,467.4             | 2,075.1    | -905.2     | 2,075.1               | 0.86                  | 0.00                 |                       |
| 9,095.0             | 90.20           | 357.50      | 7,467.4             | 2,166.0    | -909.7     | 2,166.0               | 0.79                  | 0.44                 |                       |
| 9,188.0             | 90.00           | 359.20      | 7,467.2             | 2,258.9    | -912.3     | 2,258.9               | 1.84                  | -0.22                |                       |
| 9,278.0             | 89.70           | 358.80      | 7,467.5             | 2,348.9    | -913.9     | 2,348.9               | 0.56                  | -0.33                |                       |
| 9,370.0             | 91.50           | 359.90      | 7,466.5             | 2,440.9    | -914.9     | 2,440.9               | 2.29                  | 1.96                 |                       |
| 9,462.0             | 91.60           | 359.50      | 7,464.0             | 2,532.8    | -915.4     | 2,532.8               | 0.45                  | 0.11                 |                       |
| 9,554.0             | 91.80           | 358.90      | 7,461.3             | 2,624.8    | -916.7     | 2,624.8               | 0.69                  | 0.22                 |                       |

# Cathedral Energy Services

## Survey Report

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

### Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Formations / Comments        |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|------------------------------|
| 9,647.0             | 91.90           | 359.40      | 7,458.3             | 2,717.7    | -918.1     | 2,717.7               | 0.55                  | 0.11                 |                              |
| 9,740.0             | 92.20           | 359.40      | 7,455.0             | 2,810.7    | -919.1     | 2,810.7               | 0.32                  | 0.32                 |                              |
| 9,832.0             | 90.80           | 359.90      | 7,452.6             | 2,902.6    | -919.6     | 2,902.6               | 1.62                  | -1.52                |                              |
| 9,925.0             | 91.00           | 359.50      | 7,451.1             | 2,995.6    | -920.1     | 2,995.6               | 0.48                  | 0.22                 |                              |
| 10,019.0            | 91.00           | 359.00      | 7,449.5             | 3,089.6    | -921.3     | 3,089.6               | 0.53                  | 0.00                 |                              |
| 10,113.0            | 91.50           | 359.30      | 7,447.4             | 3,183.6    | -922.7     | 3,183.6               | 0.62                  | 0.53                 |                              |
| 10,207.0            | 89.90           | 359.50      | 7,446.3             | 3,277.6    | -923.7     | 3,277.6               | 1.72                  | -1.70                |                              |
| 10,301.0            | 90.90           | 359.30      | 7,445.6             | 3,371.5    | -924.7     | 3,371.5               | 1.08                  | 1.06                 |                              |
| 10,394.0            | 89.90           | 359.40      | 7,444.9             | 3,464.5    | -925.8     | 3,464.5               | 1.08                  | -1.08                |                              |
| 10,488.0            | 90.40           | 358.80      | 7,444.7             | 3,558.5    | -927.2     | 3,558.5               | 0.83                  | 0.53                 |                              |
| 10,582.0            | 90.90           | 358.80      | 7,443.6             | 3,652.5    | -929.2     | 3,652.5               | 0.53                  | 0.53                 |                              |
| 10,676.0            | 89.60           | 358.30      | 7,443.2             | 3,746.5    | -931.6     | 3,746.5               | 1.48                  | -1.38                |                              |
| 10,770.0            | 89.50           | 358.30      | 7,444.0             | 3,840.4    | -934.4     | 3,840.4               | 0.11                  | -0.11                |                              |
| 10,864.0            | 90.50           | 357.60      | 7,444.0             | 3,934.4    | -937.7     | 3,934.4               | 1.30                  | 1.06                 |                              |
| 10,959.0            | 91.00           | 357.90      | 7,442.7             | 4,029.3    | -941.5     | 4,029.3               | 0.61                  | 0.53                 |                              |
| 11,054.0            | 91.30           | 357.40      | 7,440.8             | 4,124.2    | -945.4     | 4,124.2               | 0.61                  | 0.32                 |                              |
| 11,148.0            | 90.50           | 358.10      | 7,439.3             | 4,218.1    | -949.1     | 4,218.1               | 1.13                  | -0.85                |                              |
| 11,242.0            | 89.60           | 358.20      | 7,439.3             | 4,312.0    | -952.1     | 4,312.0               | 0.96                  | -0.96                |                              |
| 11,337.0            | 88.60           | 359.70      | 7,440.7             | 4,407.0    | -953.8     | 4,407.0               | 1.90                  | -1.05                |                              |
| 11,431.0            | 88.40           | 358.90      | 7,443.2             | 4,500.9    | -955.0     | 4,500.9               | 0.88                  | -0.21                |                              |
| 11,525.0            | 91.00           | 359.10      | 7,443.7             | 4,594.9    | -956.6     | 4,594.9               | 2.77                  | 2.77                 |                              |
| 11,620.0            | 90.70           | 358.60      | 7,442.3             | 4,689.9    | -958.5     | 4,689.9               | 0.61                  | -0.32                |                              |
| 11,715.0            | 90.10           | 356.80      | 7,441.6             | 4,784.8    | -962.3     | 4,784.8               | 2.00                  | -0.63                |                              |
| 11,810.0            | 91.50           | 356.80      | 7,440.3             | 4,879.7    | -967.6     | 4,879.7               | 1.47                  | 1.47                 |                              |
| 11,905.0            | 93.10           | 358.90      | 7,436.5             | 4,974.5    | -971.2     | 4,974.5               | 2.78                  | 1.68                 |                              |
| 12,000.0            | 91.70           | 358.90      | 7,432.5             | 5,069.4    | -973.0     | 5,069.4               | 1.47                  | -1.47                |                              |
| 12,095.0            | 92.10           | 358.60      | 7,429.4             | 5,164.3    | -975.1     | 5,164.3               | 0.53                  | 0.42                 |                              |
| 12,190.0            | 92.00           | 0.90        | 7,426.0             | 5,259.3    | -975.5     | 5,259.3               | 2.42                  | -0.11                |                              |
| 12,285.0            | 88.80           | 2.20        | 7,425.3             | 5,354.2    | -972.9     | 5,354.2               | 3.64                  | -3.37                |                              |
| 12,379.0            | 88.80           | 1.40        | 7,427.3             | 5,448.1    | -970.0     | 5,448.1               | 0.85                  | 0.00                 |                              |
| 12,474.0            | 89.60           | 1.10        | 7,428.6             | 5,543.1    | -967.9     | 5,543.1               | 0.90                  | 0.84                 |                              |
| 12,569.0            | 89.80           | 0.70        | 7,429.1             | 5,638.1    | -966.4     | 5,638.1               | 0.47                  | 0.21                 |                              |
| 12,664.0            | 91.40           | 0.10        | 7,428.1             | 5,733.1    | -965.8     | 5,733.1               | 1.80                  | 1.68                 |                              |
| 12,759.0            | 90.40           | 0.80        | 7,426.6             | 5,828.1    | -965.0     | 5,828.1               | 1.28                  | -1.05                |                              |
| 12,854.0            | 90.90           | 1.50        | 7,425.5             | 5,923.0    | -963.1     | 5,923.0               | 0.91                  | 0.53                 |                              |
| 12,949.0            | 90.10           | 0.20        | 7,424.7             | 6,018.0    | -961.7     | 6,018.0               | 1.61                  | -0.84                |                              |
| 13,043.0            | 87.70           | 359.10      | 7,426.5             | 6,112.0    | -962.3     | 6,112.0               | 2.81                  | -2.55                |                              |
| 13,138.0            | 87.10           | 358.00      | 7,430.8             | 6,206.9    | -964.7     | 6,206.9               | 1.32                  | -0.63                |                              |
| 13,233.0            | 87.80           | 357.30      | 7,435.0             | 6,301.7    | -968.6     | 6,301.7               | 1.04                  | 0.74                 |                              |
| 13,328.0            | 88.10           | 357.40      | 7,438.4             | 6,396.5    | -972.9     | 6,396.5               | 0.33                  | 0.32                 |                              |
| 13,423.0            | 88.80           | 357.40      | 7,441.0             | 6,491.4    | -977.3     | 6,491.4               | 0.74                  | 0.74                 |                              |
| 13,518.0            | 89.00           | 356.50      | 7,442.8             | 6,586.2    | -982.3     | 6,586.2               | 0.97                  | 0.21                 |                              |
| 13,612.0            | 89.40           | 356.10      | 7,444.1             | 6,680.0    | -988.4     | 6,680.0               | 0.60                  | 0.43                 |                              |
| 13,707.0            | 90.60           | 355.30      | 7,444.1             | 6,774.8    | -995.5     | 6,774.8               | 1.52                  | 1.26                 |                              |
| 13,802.0            | 91.20           | 357.90      | 7,442.6             | 6,869.6    | -1,001.1   | 6,869.6               | 2.81                  | 0.63                 |                              |
| 13,897.0            | 89.20           | 359.40      | 7,442.3             | 6,964.5    | -1,003.4   | 6,964.5               | 2.63                  | -2.11                |                              |
| 13,992.0            | 89.80           | 359.20      | 7,443.1             | 7,059.5    | -1,004.5   | 7,059.5               | 0.67                  | 0.63                 |                              |
| 14,087.0            | 90.20           | 358.90      | 7,443.1             | 7,154.5    | -1,006.1   | 7,154.5               | 0.53                  | 0.42                 |                              |
| 14,143.0            | 90.40           | 358.50      | 7,442.9             | 7,210.5    | -1,007.4   | 7,210.5               | 0.80                  | 0.36                 | Last CES Survey @ 14,143' MD |
| 14,193.0            | 90.40           | 358.50      | 7,442.5             | 7,260.5    | -1,008.7   | 7,260.5               | 0.00                  | 0.00                 | PTB @ 14,193'                |

# Cathedral Energy Services

## Survey Report

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

| Targets  |           |          |         |         |        |              |              |           |             |
|--|-----------|----------|---------|---------|--------|--------------|--------------|-----------|-------------|
| Target Name  | Dip Angle | Dip Dir. | TVD     | +N/-S   | +E/-W  | Northing     | Easting      | Latitude  | Longitude   |
| - hit/miss target  | (°)       | (°)      | (ft)    | (ft)    | (ft)   | (ft)         | (ft)         |           |             |
| - Shape  |           |          |         |         |        |              |              |           |             |
| Grant-Hurt 1A-14H-G26i   | 0.00      | 0.00     | 7,400.0 | 7,307.5 | -997.8 | 1,301,335.55 | 3,148,056.05 | 40.159340 | -104.970300 |
| - actual wellpath misses target center by 64.3ft at 14193.0ft MD (7442.5 TVD, 7260.5 N, -1008.7 E) |           |          |         |         |        |              |              |           |             |
| - Point  |           |          |         |         |        |              |              |           |             |
| Grant-Hurt 1A-14H-G26i   | 0.00      | 0.00     | 7,385.0 | 7,307.5 | -997.8 | 1,301,335.55 | 3,148,056.05 | 40.159340 | -104.970300 |
| - actual wellpath misses target center by 75.1ft at 14193.0ft MD (7442.5 TVD, 7260.5 N, -1008.7 E) |           |          |         |         |        |              |              |           |             |
| - Point  |           |          |         |         |        |              |              |           |             |
| Grant-Hurt 1A-14H-G26i   | 0.00      | 0.00     | 7,243.1 | 512.5   | -835.6 | 1,294,541.63 | 3,148,259.15 | 40.140687 | -104.969719 |
| - actual wellpath misses target center by 29.1ft at 7383.6ft MD (7220.2 TVD, 530.4 N, -837.0 E)    |           |          |         |         |        |              |              |           |             |
| - Point  |           |          |         |         |        |              |              |           |             |
| Grant-Hurt 1A-14H-G26i   | 0.00      | 0.00     | 7,455.0 | 4,328.7 | -945.8 | 1,298,357.11 | 3,148,125.97 | 40.151163 | -104.970113 |
| - actual wellpath misses target center by 17.0ft at 11258.8ft MD (7439.4 TVD, 4328.8 N, -952.6 E)  |           |          |         |         |        |              |              |           |             |
| - Point  |           |          |         |         |        |              |              |           |             |

| Design Annotations |                |                   |            |                              |  |
|--------------------|----------------|-------------------|------------|------------------------------|--|
| Measured Depth     | Vertical Depth | Local Coordinates |            |                              |  |
| (ft)               | (ft)           | +N/-S (ft)        | +E/-W (ft) | Comment                      |  |
| 14,143.0           | 7,442.9        | 7,210.5           | -1,007.4   | Last CES Survey @ 14,143' MD |  |
| 14,193.0           | 7,442.5        | 7,260.5           | -1,008.7   | PTB @ 14,193'                |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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

**DJ Wattenberg**

**S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt)**

**Grant-Hurt 1A-14H-G268**

**Hz**

**Design: FINAL**

## **Survey Report - Geographic**

**29 July, 2014**



# Cathedral Energy Services

## Survey Report - Geographic

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <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                  |          | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) |                 |                   |             |
| Site Position:        |          | Northing:                                    | 1,295,686.81 ft | Latitude:         | 40.143850   |
| From:                 | Lat/Long | Easting:                                     | 3,147,060.98 ft | Longitude:        | -104.973980 |
| Position Uncertainty: | 0.0 ft   | Slot Radius:                                 | 13.200 in       | Grid Convergence: | 0.34 °      |

| Well                 | Grant-Hurt 1A-14H-G268 |        |                     |                 |               |             |
|----------------------|------------------------|--------|---------------------|-----------------|---------------|-------------|
| Well Position        | +N/-S                  | 0.0 ft | Northing:           | 1,294,034.16 ft | Latitude:     | 40.139280   |
|                      | +E/-W                  | 0.0 ft | Easting:            | 3,149,097.79 ft | Longitude:    | -104.966730 |
| Position Uncertainty |                        | 0.0 ft | Wellhead Elevation: | ft              | Ground Level: | 4,888.0 ft  |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | Hz                |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | IGRF2010          | 7/22/2014          | 8.53               | 66.70            | 52,646                |

|                          |                         |               |              |                      |     |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| <b>Design</b>            | FINAL                   |               |              |                      |     |
| <b>Audit Notes:</b>      |                         |               |              |                      |     |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |     |
|                          | (ft)                    | (ft)          | (ft)         | (°)                  |     |
|                          | 0.0                     | 0.0           | 0.0          | 0.00                 |     |

|                       |             |                          |                  |                    |  |
|-----------------------|-------------|--------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b> | 7/29/2014                |                  |                    |  |
| <b>From</b>           | <b>To</b>   | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| (ft)                  | (ft)        |                          |                  |                    |  |
| 146.0                 | 14,193.0    | Survey #1 (Hz)           | Geolink MWD      | Geolink MWD        |  |

|                 |                 |              |              |                 |                |                 |                  |           |             |  |
|-----------------|-----------------|--------------|--------------|-----------------|----------------|-----------------|------------------|-----------|-------------|--|
| <b>Survey</b>   |                 |              |              |                 |                |                 |                  |           |             |  |
| <b>Measured</b> | <b>Vertical</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Map</b>      | <b>Map</b>     | <b>Latitude</b> | <b>Longitude</b> |           |             |  |
| <b>Depth</b>    | <b>Depth</b>    | <b>(ft)</b>  | <b>(ft)</b>  | <b>Northing</b> | <b>Easting</b> |                 |                  |           |             |  |
| (ft)            | (ft)            | (ft)         | (ft)         | (ft)            | (ft)           |                 |                  |           |             |  |
| 0.0             | 0.0             | 0.0          | 0.0          | 1,294,034.16    | 3,149,097.79   | 40.139280       | -104.966730      |           |             |  |
| 146.0           | 0.90            | 252.70       | 146.0        | -0.3            | -1.1           | 1,294,033.81    | 3,149,096.70     | 40.139279 | -104.966734 |  |
| 241.0           | 2.30            | 279.90       | 241.0        | -0.2            | -3.7           | 1,294,033.90    | 3,149,094.10     | 40.139279 | -104.966743 |  |
| 335.0           | 3.30            | 281.80       | 334.8        | 0.6             | -8.2           | 1,294,034.75    | 3,149,089.59     | 40.139282 | -104.966760 |  |
| 430.0           | 4.50            | 287.10       | 429.6        | 2.3             | -14.4          | 1,294,036.37    | 3,149,083.34     | 40.139286 | -104.966782 |  |
| 525.0           | 5.40            | 283.20       | 524.3        | 4.4             | -22.3          | 1,294,038.44    | 3,149,075.42     | 40.139292 | -104.966810 |  |
| 620.0           | 6.60            | 281.70       | 618.7        | 6.5             | -32.0          | 1,294,040.51    | 3,149,065.71     | 40.139298 | -104.966845 |  |
| 714.0           | 6.30            | 285.60       | 712.1        | 9.0             | -42.3          | 1,294,042.93    | 3,149,055.43     | 40.139305 | -104.966882 |  |
| 809.0           | 5.90            | 285.60       | 806.6        | 11.7            | -52.0          | 1,294,045.59    | 3,149,045.69     | 40.139312 | -104.966916 |  |
| 835.0           | 5.80            | 285.70       | 832.5        | 12.5            | -54.6          | 1,294,046.29    | 3,149,043.14     | 40.139314 | -104.966925 |  |
| 912.0           | 5.70            | 283.70       | 909.1        | 14.4            | -62.0          | 1,294,048.20    | 3,149,035.67     | 40.139320 | -104.966952 |  |
| 1,004.0         | 9.00            | 292.20       | 1,000.3      | 18.2            | -73.1          | 1,294,051.94    | 3,149,024.54     | 40.139330 | -104.966992 |  |

# Cathedral Energy Services

## Survey Report - Geographic

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

| Survey                    |                    |                |                           |               |               |                         |                        |           |  |             |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-------------------------|------------------------|-----------|--|-------------|
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(ft) | Map<br>Easting<br>(ft) | Latitude  |  |             |
| 1,095.0                   | 9.40               | 294.60         | 1,090.2                   | 24.0          | -86.5         | 1,294,057.64            | 3,149,011.16           | 40.139346 |  | -104.967040 |
| 1,187.0                   | 9.30               | 277.80         | 1,180.9                   | 28.1          | -100.7        | 1,294,061.69            | 3,148,996.93           | 40.139357 |  | -104.967090 |
| 1,279.0                   | 9.60               | 269.70         | 1,271.7                   | 29.1          | -115.7        | 1,294,062.57            | 3,148,981.89           | 40.139360 |  | -104.967144 |
| 1,372.0                   | 5.90               | 276.70         | 1,363.8                   | 29.6          | -128.2        | 1,294,063.01            | 3,148,969.38           | 40.139361 |  | -104.967189 |
| 1,464.0                   | 5.40               | 270.90         | 1,455.4                   | 30.2          | -137.3        | 1,294,063.58            | 3,148,960.35           | 40.139363 |  | -104.967221 |
| 1,556.0                   | 6.50               | 291.60         | 1,546.9                   | 32.2          | -146.4        | 1,294,065.51            | 3,148,951.17           | 40.139369 |  | -104.967254 |
| 1,648.0                   | 6.30               | 292.10         | 1,638.3                   | 36.0          | -155.9        | 1,294,069.26            | 3,148,941.63           | 40.139379 |  | -104.967288 |
| 1,740.0                   | 6.10               | 291.40         | 1,729.8                   | 39.7          | -165.2        | 1,294,072.89            | 3,148,932.38           | 40.139389 |  | -104.967321 |
| 1,833.0                   | 8.80               | 283.10         | 1,822.0                   | 43.1          | -176.7        | 1,294,076.24            | 3,148,920.83           | 40.139398 |  | -104.967362 |
| 1,925.0                   | 8.40               | 283.40         | 1,913.0                   | 46.3          | -190.1        | 1,294,079.31            | 3,148,907.42           | 40.139407 |  | -104.967410 |
| 2,020.0                   | 8.60               | 280.50         | 2,006.9                   | 49.2          | -203.8        | 1,294,082.13            | 3,148,893.67           | 40.139415 |  | -104.967459 |
| 2,114.0                   | 8.70               | 279.00         | 2,099.9                   | 51.6          | -217.8        | 1,294,084.44            | 3,148,879.72           | 40.139422 |  | -104.967509 |
| 2,209.0                   | 6.70               | 289.40         | 2,194.0                   | 54.6          | -230.1        | 1,294,087.33            | 3,148,867.38           | 40.139430 |  | -104.967553 |
| 2,303.0                   | 6.60               | 287.70         | 2,287.4                   | 58.0          | -240.4        | 1,294,090.73            | 3,148,857.04           | 40.139439 |  | -104.967590 |
| 2,398.0                   | 6.80               | 288.10         | 2,381.7                   | 61.4          | -251.0        | 1,294,094.08            | 3,148,846.47           | 40.139449 |  | -104.967628 |
| 2,492.0                   | 6.60               | 288.70         | 2,475.1                   | 64.9          | -261.4        | 1,294,097.47            | 3,148,836.04           | 40.139458 |  | -104.967665 |
| 2,586.0                   | 6.50               | 289.10         | 2,568.5                   | 68.4          | -271.5        | 1,294,100.89            | 3,148,825.88           | 40.139468 |  | -104.967701 |
| 2,681.0                   | 6.20               | 288.50         | 2,662.9                   | 71.7          | -281.5        | 1,294,104.21            | 3,148,815.91           | 40.139477 |  | -104.967737 |
| 2,776.0                   | 6.20               | 288.80         | 2,757.3                   | 75.0          | -291.2        | 1,294,107.44            | 3,148,806.17           | 40.139486 |  | -104.967772 |
| 2,871.0                   | 6.00               | 289.90         | 2,851.8                   | 78.4          | -300.7        | 1,294,110.72            | 3,148,796.63           | 40.139495 |  | -104.967806 |
| 2,965.0                   | 7.20               | 277.90         | 2,945.2                   | 80.9          | -311.2        | 1,294,113.14            | 3,148,786.16           | 40.139502 |  | -104.967843 |
| 3,060.0                   | 7.10               | 280.10         | 3,039.4                   | 82.7          | -322.8        | 1,294,114.92            | 3,148,774.47           | 40.139507 |  | -104.967885 |
| 3,155.0                   | 6.80               | 280.00         | 3,133.7                   | 84.7          | -334.1        | 1,294,116.86            | 3,148,763.14           | 40.139513 |  | -104.967925 |
| 3,249.0                   | 6.40               | 281.40         | 3,227.1                   | 86.7          | -344.8        | 1,294,118.79            | 3,148,752.51           | 40.139518 |  | -104.967963 |
| 3,344.0                   | 5.90               | 283.20         | 3,321.6                   | 88.9          | -354.7        | 1,294,120.90            | 3,148,742.55           | 40.139524 |  | -104.967999 |
| 3,439.0                   | 7.40               | 285.80         | 3,415.9                   | 91.7          | -365.3        | 1,294,123.61            | 3,148,731.90           | 40.139532 |  | -104.968037 |
| 3,534.0                   | 7.10               | 286.40         | 3,510.2                   | 95.0          | -376.9        | 1,294,126.87            | 3,148,720.36           | 40.139541 |  | -104.968078 |
| 3,629.0                   | 6.40               | 286.40         | 3,604.5                   | 98.1          | -387.6        | 1,294,129.96            | 3,148,709.63           | 40.139549 |  | -104.968117 |
| 3,723.0                   | 5.80               | 291.50         | 3,698.0                   | 101.3         | -397.0        | 1,294,133.12            | 3,148,700.16           | 40.139558 |  | -104.968150 |
| 3,818.0                   | 8.30               | 289.00         | 3,792.2                   | 105.3         | -408.0        | 1,294,137.04            | 3,148,689.19           | 40.139569 |  | -104.968190 |
| 3,913.0                   | 8.30               | 291.10         | 3,886.2                   | 110.0         | -420.9        | 1,294,141.67            | 3,148,676.28           | 40.139582 |  | -104.968236 |
| 4,008.0                   | 7.90               | 289.80         | 3,980.3                   | 114.7         | -433.4        | 1,294,146.27            | 3,148,663.71           | 40.139595 |  | -104.968280 |
| 4,103.0                   | 7.30               | 293.10         | 4,074.5                   | 119.3         | -445.1        | 1,294,150.78            | 3,148,651.99           | 40.139608 |  | -104.968322 |
| 4,198.0                   | 6.90               | 281.30         | 4,168.7                   | 122.8         | -456.2        | 1,294,154.20            | 3,148,640.82           | 40.139617 |  | -104.968362 |
| 4,292.0                   | 6.40               | 281.00         | 4,262.1                   | 124.9         | -466.9        | 1,294,156.24            | 3,148,630.13           | 40.139623 |  | -104.968400 |
| 4,387.0                   | 6.30               | 282.20         | 4,356.5                   | 127.0         | -477.2        | 1,294,158.29            | 3,148,619.82           | 40.139629 |  | -104.968437 |
| 4,482.0                   | 8.20               | 277.00         | 4,450.8                   | 128.9         | -489.0        | 1,294,160.15            | 3,148,607.99           | 40.139634 |  | -104.968479 |
| 4,578.0                   | 7.90               | 277.70         | 4,545.8                   | 130.6         | -502.4        | 1,294,161.79            | 3,148,594.65           | 40.139639 |  | -104.968527 |
| 4,673.0                   | 6.80               | 279.40         | 4,640.0                   | 132.4         | -514.4        | 1,294,163.51            | 3,148,582.62           | 40.139644 |  | -104.968570 |
| 4,768.0                   | 6.30               | 280.70         | 4,734.4                   | 134.3         | -525.1        | 1,294,165.33            | 3,148,571.94           | 40.139649 |  | -104.968608 |
| 4,862.0                   | 5.70               | 281.80         | 4,827.9                   | 136.2         | -534.7        | 1,294,167.18            | 3,148,562.29           | 40.139654 |  | -104.968643 |
| 4,957.0                   | 7.90               | 281.20         | 4,922.2                   | 138.5         | -545.7        | 1,294,169.35            | 3,148,551.25           | 40.139660 |  | -104.968682 |
| 5,052.0                   | 6.80               | 280.80         | 5,016.4                   | 140.8         | -557.6        | 1,294,171.60            | 3,148,539.31           | 40.139667 |  | -104.968725 |
| 5,147.0                   | 5.80               | 283.50         | 5,110.9                   | 143.0         | -567.8        | 1,294,173.71            | 3,148,529.10           | 40.139672 |  | -104.968761 |
| 5,241.0                   | 7.80               | 281.00         | 5,204.2                   | 145.3         | -578.7        | 1,294,175.98            | 3,148,518.21           | 40.139679 |  | -104.968800 |
| 5,336.0                   | 7.20               | 284.50         | 5,298.4                   | 148.0         | -590.8        | 1,294,178.62            | 3,148,506.10           | 40.139686 |  | -104.968843 |
| 5,430.0                   | 6.10               | 283.00         | 5,391.8                   | 150.6         | -601.4        | 1,294,181.16            | 3,148,495.52           | 40.139693 |  | -104.968881 |
| 5,526.0                   | 7.30               | 284.90         | 5,487.1                   | 153.3         | -612.2        | 1,294,183.81            | 3,148,484.63           | 40.139701 |  | -104.968920 |
| 5,622.0                   | 9.40               | 286.90         | 5,582.1                   | 157.2         | -625.6        | 1,294,187.58            | 3,148,471.22           | 40.139712 |  | -104.968968 |
| 5,718.0                   | 7.90               | 286.40         | 5,677.0                   | 161.3         | -639.5        | 1,294,191.63            | 3,148,457.36           | 40.139723 |  | -104.969018 |
| 5,814.0                   | 7.20               | 287.10         | 5,772.1                   | 165.0         | -651.5        | 1,294,195.19            | 3,148,445.26           | 40.139733 |  | -104.969061 |
| 5,911.0                   | 7.60               | 275.50         | 5,868.3                   | 167.4         | -663.7        | 1,294,197.52            | 3,148,433.05           | 40.139739 |  | -104.969104 |
| 5,999.0                   | 5.90               | 276.30         | 5,955.7                   | 168.4         | -674.0        | 1,294,198.51            | 3,148,422.75           | 40.139742 |  | -104.969141 |
| 6,094.0                   | 6.90               | 289.60         | 6,050.1                   | 170.9         | -684.3        | 1,294,200.90            | 3,148,412.51           | 40.139749 |  | -104.969178 |
| 6,188.0                   | 5.60               | 290.80         | 6,143.6                   | 174.4         | -693.9        | 1,294,204.37            | 3,148,402.88           | 40.139759 |  | -104.969212 |

# Cathedral Energy Services

## Survey Report - Geographic

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

| Survey   |             |         |          |         |        |              |              |         |           |             |
|----------|-------------|---------|----------|---------|--------|--------------|--------------|---------|-----------|-------------|
| Measured |             |         | Vertical |         |        |              | Map          | Map     |           |             |
| Depth    | Inclination | Azimuth | Depth    | +N/-S   | +E/-W  |              | Northing     | Easting | Latitude  | Longitude   |
| (ft)     | (°)         | (°)     | (ft)     | (ft)    | (ft)   | (ft)         | (ft)         | (ft)    |           |             |
| 6,283.0  | 7.20        | 292.40  | 6,238.0  | 178.3   | -703.7 | 1,294,208.22 | 3,148,393.02 |         | 40.139769 | -104.969247 |
| 6,378.0  | 6.80        | 280.50  | 6,332.3  | 181.6   | -714.7 | 1,294,211.45 | 3,148,381.97 |         | 40.139779 | -104.969287 |
| 6,472.0  | 5.40        | 283.20  | 6,425.8  | 183.6   | -724.5 | 1,294,213.42 | 3,148,372.18 |         | 40.139784 | -104.969322 |
| 6,519.0  | 5.10        | 284.50  | 6,472.6  | 184.6   | -728.7 | 1,294,214.42 | 3,148,367.99 |         | 40.139787 | -104.969337 |
| 6,567.0  | 8.30        | 292.50  | 6,520.2  | 186.5   | -734.0 | 1,294,216.25 | 3,148,362.72 |         | 40.139792 | -104.969356 |
| 6,614.0  | 10.30       | 295.30  | 6,566.6  | 189.6   | -740.9 | 1,294,219.30 | 3,148,355.76 |         | 40.139800 | -104.969380 |
| 6,661.0  | 12.00       | 303.30  | 6,612.7  | 194.1   | -748.8 | 1,294,223.73 | 3,148,347.85 |         | 40.139813 | -104.969409 |
| 6,708.0  | 13.10       | 307.90  | 6,658.6  | 200.0   | -757.1 | 1,294,229.64 | 3,148,339.53 |         | 40.139829 | -104.969438 |
| 6,756.0  | 15.20       | 319.70  | 6,705.1  | 208.2   | -765.4 | 1,294,237.73 | 3,148,331.12 |         | 40.139851 | -104.969468 |
| 6,803.0  | 17.20       | 324.90  | 6,750.3  | 218.6   | -773.4 | 1,294,248.07 | 3,148,323.07 |         | 40.139880 | -104.969497 |
| 6,851.0  | 19.10       | 328.70  | 6,795.9  | 231.1   | -781.6 | 1,294,260.54 | 3,148,314.83 |         | 40.139914 | -104.969526 |
| 6,898.0  | 19.70       | 329.80  | 6,840.2  | 244.5   | -789.6 | 1,294,273.91 | 3,148,306.77 |         | 40.139951 | -104.969554 |
| 6,945.0  | 23.20       | 337.80  | 6,884.0  | 259.9   | -797.0 | 1,294,289.29 | 3,148,299.19 |         | 40.139994 | -104.969581 |
| 6,992.0  | 26.80       | 345.60  | 6,926.6  | 278.8   | -803.2 | 1,294,308.09 | 3,148,292.95 |         | 40.140045 | -104.969603 |
| 7,040.0  | 29.30       | 349.80  | 6,968.9  | 300.8   | -808.0 | 1,294,330.11 | 3,148,288.04 |         | 40.140106 | -104.969620 |
| 7,087.0  | 33.90       | 351.60  | 7,009.0  | 325.1   | -811.9 | 1,294,354.39 | 3,148,283.94 |         | 40.140172 | -104.969634 |
| 7,134.0  | 39.00       | 352.20  | 7,046.7  | 352.8   | -815.8 | 1,294,382.00 | 3,148,279.85 |         | 40.140248 | -104.969648 |
| 7,181.0  | 42.50       | 353.00  | 7,082.3  | 383.2   | -819.8 | 1,294,412.39 | 3,148,275.72 |         | 40.140332 | -104.969662 |
| 7,229.0  | 45.10       | 353.80  | 7,117.0  | 416.2   | -823.6 | 1,294,445.37 | 3,148,271.71 |         | 40.140422 | -104.969676 |
| 7,276.0  | 46.50       | 353.90  | 7,149.8  | 449.7   | -827.2 | 1,294,478.85 | 3,148,267.90 |         | 40.140514 | -104.969689 |
| 7,323.0  | 48.70       | 353.30  | 7,181.4  | 484.2   | -831.1 | 1,294,513.31 | 3,148,263.82 |         | 40.140609 | -104.969703 |
| 7,370.0  | 51.10       | 352.40  | 7,211.7  | 519.8   | -835.5 | 1,294,548.95 | 3,148,259.13 |         | 40.140707 | -104.969719 |
| 7,418.0  | 52.80       | 352.40  | 7,241.3  | 557.3   | -840.5 | 1,294,586.39 | 3,148,253.91 |         | 40.140810 | -104.969737 |
| 7,465.0  | 53.70       | 352.40  | 7,269.4  | 594.6   | -845.5 | 1,294,623.69 | 3,148,248.70 |         | 40.140912 | -104.969755 |
| 7,512.0  | 55.40       | 352.40  | 7,296.7  | 632.6   | -850.6 | 1,294,661.60 | 3,148,243.41 |         | 40.141016 | -104.969773 |
| 7,559.0  | 57.20       | 352.30  | 7,322.8  | 671.3   | -855.8 | 1,294,700.32 | 3,148,237.97 |         | 40.141123 | -104.969791 |
| 7,607.0  | 57.50       | 352.30  | 7,348.7  | 711.4   | -861.2 | 1,294,740.34 | 3,148,232.31 |         | 40.141233 | -104.969811 |
| 7,654.0  | 59.00       | 353.90  | 7,373.4  | 751.0   | -866.0 | 1,294,779.99 | 3,148,227.28 |         | 40.141342 | -104.969828 |
| 7,701.0  | 60.70       | 353.50  | 7,397.0  | 791.4   | -870.5 | 1,294,820.35 | 3,148,222.58 |         | 40.141453 | -104.969844 |
| 7,748.0  | 62.70       | 351.80  | 7,419.3  | 832.5   | -875.8 | 1,294,861.36 | 3,148,217.03 |         | 40.141565 | -104.969863 |
| 7,796.0  | 65.80       | 354.30  | 7,440.1  | 875.4   | -881.0 | 1,294,904.23 | 3,148,211.55 |         | 40.141683 | -104.969881 |
| 7,843.0  | 69.80       | 357.40  | 7,457.9  | 918.8   | -884.1 | 1,294,947.60 | 3,148,208.16 |         | 40.141802 | -104.969893 |
| 7,890.0  | 75.30       | 358.40  | 7,472.0  | 963.6   | -885.8 | 1,294,992.38 | 3,148,206.26 |         | 40.141925 | -104.969899 |
| 7,917.0  | 80.00       | 359.30  | 7,477.7  | 989.9   | -886.3 | 1,295,018.74 | 3,148,205.57 |         | 40.141997 | -104.969900 |
| 7,990.0  | 84.20       | 359.40  | 7,487.8  | 1,062.2 | -887.1 | 1,295,091.03 | 3,148,204.32 |         | 40.142196 | -104.969903 |
| 8,083.0  | 88.00       | 358.70  | 7,494.1  | 1,155.0 | -888.6 | 1,295,183.78 | 3,148,202.22 |         | 40.142451 | -104.969909 |
| 8,174.0  | 91.60       | 0.80    | 7,494.4  | 1,246.0 | -889.0 | 1,295,274.75 | 3,148,201.27 |         | 40.142700 | -104.969910 |
| 8,266.0  | 93.80       | 359.70  | 7,490.1  | 1,337.8 | -888.6 | 1,295,366.64 | 3,148,201.12 |         | 40.142953 | -104.969909 |
| 8,359.0  | 94.00       | 359.30  | 7,483.8  | 1,430.6 | -889.4 | 1,295,459.42 | 3,148,199.76 |         | 40.143207 | -104.969912 |
| 8,451.0  | 92.20       | 359.70  | 7,478.8  | 1,522.5 | -890.2 | 1,295,551.27 | 3,148,198.40 |         | 40.143459 | -104.969915 |
| 8,544.0  | 91.30       | 359.00  | 7,475.9  | 1,615.4 | -891.3 | 1,295,644.21 | 3,148,196.79 |         | 40.143715 | -104.969918 |
| 8,636.0  | 92.00       | 359.10  | 7,473.3  | 1,707.4 | -892.8 | 1,295,736.15 | 3,148,194.71 |         | 40.143967 | -104.969924 |
| 8,727.0  | 92.10       | 358.60  | 7,470.0  | 1,798.3 | -894.7 | 1,295,827.06 | 3,148,192.34 |         | 40.144217 | -104.969930 |
| 8,819.0  | 90.90       | 358.00  | 7,467.6  | 1,890.2 | -897.4 | 1,295,918.97 | 3,148,189.06 |         | 40.144469 | -104.969940 |
| 8,911.0  | 89.80       | 357.70  | 7,467.1  | 1,982.2 | -900.8 | 1,296,010.88 | 3,148,185.05 |         | 40.144721 | -104.969953 |
| 9,004.0  | 89.80       | 356.90  | 7,467.4  | 2,075.1 | -905.2 | 1,296,103.74 | 3,148,180.11 |         | 40.144976 | -104.969968 |
| 9,095.0  | 90.20       | 357.50  | 7,467.4  | 2,166.0 | -909.7 | 1,296,194.61 | 3,148,175.12 |         | 40.145226 | -104.969984 |
| 9,188.0  | 90.00       | 359.20  | 7,467.2  | 2,258.9 | -912.3 | 1,296,287.55 | 3,148,171.89 |         | 40.145481 | -104.969994 |
| 9,278.0  | 89.70       | 358.80  | 7,467.5  | 2,348.9 | -913.9 | 1,296,377.52 | 3,148,169.77 |         | 40.145728 | -104.969999 |
| 9,370.0  | 91.50       | 359.90  | 7,466.5  | 2,440.9 | -914.9 | 1,296,469.50 | 3,148,168.18 |         | 40.145981 | -104.970003 |
| 9,462.0  | 91.60       | 359.50  | 7,464.0  | 2,532.8 | -915.4 | 1,296,561.46 | 3,148,167.14 |         | 40.146233 | -104.970005 |
| 9,554.0  | 91.80       | 358.90  | 7,461.3  | 2,624.8 | -916.7 | 1,296,653.40 | 3,148,165.31 |         | 40.146485 | -104.970009 |
| 9,647.0  | 91.90       | 359.40  | 7,458.3  | 2,717.7 | -918.1 | 1,296,746.33 | 3,148,163.37 |         | 40.146741 | -104.970014 |
| 9,740.0  | 92.20       | 359.40  | 7,455.0  | 2,810.7 | -919.1 | 1,296,839.26 | 3,148,161.84 |         | 40.146996 | -104.970018 |
| 9,832.0  | 90.80       | 359.90  | 7,452.6  | 2,902.6 | -919.6 | 1,296,931.22 | 3,148,160.72 |         | 40.147248 | -104.970020 |

# Cathedral Energy Services

## Survey Report - Geographic

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

| Survey                       |                    |                |                           |               |               |                         |                        |                       |             |  |
|------------------------------|--------------------|----------------|---------------------------|---------------|---------------|-------------------------|------------------------|-----------------------|-------------|--|
| Measured<br>Depth<br>(ft)    | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(ft) | Map<br>Easting<br>(ft) | Latitude<br>Longitude |             |  |
| 9,925.0                      | 91.00              | 359.50         | 7,451.1                   | 2,995.6       | -920.1        | 1,297,024.20            | 3,148,159.68           | 40.147503             | -104.970022 |  |
| 10,019.0                     | 91.00              | 359.00         | 7,449.5                   | 3,089.6       | -921.3        | 1,297,118.17            | 3,148,157.88           | 40.147761             | -104.970026 |  |
| 10,113.0                     | 91.50              | 359.30         | 7,447.4                   | 3,183.6       | -922.7        | 1,297,212.13            | 3,148,155.92           | 40.148019             | -104.970031 |  |
| 10,207.0                     | 89.90              | 359.50         | 7,446.3                   | 3,277.6       | -923.7        | 1,297,306.10            | 3,148,154.37           | 40.148277             | -104.970035 |  |
| 10,301.0                     | 90.90              | 359.30         | 7,445.6                   | 3,371.5       | -924.7        | 1,297,400.09            | 3,148,152.82           | 40.148535             | -104.970038 |  |
| 10,394.0                     | 89.90              | 359.40         | 7,444.9                   | 3,464.5       | -925.8        | 1,297,493.07            | 3,148,151.21           | 40.148791             | -104.970042 |  |
| 10,488.0                     | 90.40              | 358.80         | 7,444.7                   | 3,558.5       | -927.2        | 1,297,587.05            | 3,148,149.17           | 40.149049             | -104.970047 |  |
| 10,582.0                     | 90.90              | 358.80         | 7,443.6                   | 3,652.5       | -929.2        | 1,297,681.01            | 3,148,146.63           | 40.149307             | -104.970054 |  |
| 10,676.0                     | 89.60              | 358.30         | 7,443.2                   | 3,746.5       | -931.6        | 1,297,774.96            | 3,148,143.69           | 40.149565             | -104.970063 |  |
| 10,770.0                     | 89.50              | 358.30         | 7,444.0                   | 3,840.4       | -934.4        | 1,297,868.89            | 3,148,140.33           | 40.149822             | -104.970073 |  |
| 10,864.0                     | 90.50              | 357.60         | 7,444.0                   | 3,934.4       | -937.7        | 1,297,962.81            | 3,148,136.41           | 40.150080             | -104.970085 |  |
| 10,959.0                     | 91.00              | 357.90         | 7,442.7                   | 4,029.3       | -941.5        | 1,298,057.71            | 3,148,132.11           | 40.150341             | -104.970098 |  |
| 11,054.0                     | 91.30              | 357.40         | 7,440.8                   | 4,124.2       | -945.4        | 1,298,152.58            | 3,148,127.64           | 40.150601             | -104.970112 |  |
| 11,148.0                     | 90.50              | 358.10         | 7,439.3                   | 4,218.1       | -949.1        | 1,298,246.45            | 3,148,123.39           | 40.150859             | -104.970125 |  |
| 11,242.0                     | 89.60              | 358.20         | 7,439.3                   | 4,312.0       | -952.1        | 1,298,340.38            | 3,148,119.79           | 40.151117             | -104.970136 |  |
| 11,337.0                     | 88.60              | 359.70         | 7,440.7                   | 4,407.0       | -953.8        | 1,298,435.34            | 3,148,117.48           | 40.151378             | -104.970142 |  |
| 11,431.0                     | 88.40              | 358.90         | 7,443.2                   | 4,500.9       | -955.0        | 1,298,529.29            | 3,148,115.76           | 40.151636             | -104.970147 |  |
| 11,525.0                     | 91.00              | 359.10         | 7,443.7                   | 4,594.9       | -956.6        | 1,298,623.25            | 3,148,113.56           | 40.151894             | -104.970152 |  |
| 11,620.0                     | 90.70              | 358.60         | 7,442.3                   | 4,689.9       | -958.5        | 1,298,718.21            | 3,148,111.08           | 40.152154             | -104.970159 |  |
| 11,715.0                     | 90.10              | 356.80         | 7,441.6                   | 4,784.8       | -962.3        | 1,298,813.10            | 3,148,106.70           | 40.152415             | -104.970173 |  |
| 11,810.0                     | 91.50              | 356.80         | 7,440.3                   | 4,879.7       | -967.6        | 1,298,907.91            | 3,148,100.83           | 40.152675             | -104.970192 |  |
| 11,905.0                     | 93.10              | 358.90         | 7,436.5                   | 4,974.5       | -971.2        | 1,299,002.73            | 3,148,096.69           | 40.152936             | -104.970205 |  |
| 12,000.0                     | 91.70              | 358.90         | 7,432.5                   | 5,069.4       | -973.0        | 1,299,097.62            | 3,148,094.30           | 40.153196             | -104.970211 |  |
| 12,095.0                     | 92.10              | 358.60         | 7,429.4                   | 5,164.3       | -975.1        | 1,299,192.53            | 3,148,091.66           | 40.153457             | -104.970219 |  |
| 12,190.0                     | 92.00              | 0.90           | 7,426.0                   | 5,259.3       | -975.5        | 1,299,287.46            | 3,148,090.67           | 40.153717             | -104.970220 |  |
| 12,285.0                     | 88.80              | 2.20           | 7,425.3                   | 5,354.2       | -972.9        | 1,299,382.42            | 3,148,092.67           | 40.153978             | -104.970211 |  |
| 12,379.0                     | 88.80              | 1.40           | 7,427.3                   | 5,448.1       | -970.0        | 1,299,476.37            | 3,148,095.06           | 40.154236             | -104.970200 |  |
| 12,474.0                     | 89.60              | 1.10           | 7,428.6                   | 5,543.1       | -967.9        | 1,299,571.34            | 3,148,096.56           | 40.154497             | -104.970193 |  |
| 12,569.0                     | 89.80              | 0.70           | 7,429.1                   | 5,638.1       | -966.4        | 1,299,666.34            | 3,148,097.48           | 40.154757             | -104.970188 |  |
| 12,664.0                     | 91.40              | 0.10           | 7,428.1                   | 5,733.1       | -965.8        | 1,299,761.33            | 3,148,097.57           | 40.155018             | -104.970185 |  |
| 12,759.0                     | 90.40              | 0.80           | 7,426.6                   | 5,828.1       | -965.0        | 1,299,856.32            | 3,148,097.75           | 40.155279             | -104.970183 |  |
| 12,854.0                     | 90.90              | 1.50           | 7,425.5                   | 5,923.0       | -963.1        | 1,299,951.30            | 3,148,099.08           | 40.155540             | -104.970176 |  |
| 12,949.0                     | 90.10              | 0.20           | 7,424.7                   | 6,018.0       | -961.7        | 1,300,046.29            | 3,148,099.92           | 40.155800             | -104.970171 |  |
| 13,043.0                     | 87.70              | 359.10         | 7,426.5                   | 6,112.0       | -962.3        | 1,300,140.26            | 3,148,098.78           | 40.156058             | -104.970173 |  |
| 13,138.0                     | 87.10              | 358.00         | 7,430.8                   | 6,206.9       | -964.7        | 1,300,235.11            | 3,148,095.81           | 40.156319             | -104.970182 |  |
| 13,233.0                     | 87.80              | 357.30         | 7,435.0                   | 6,301.7       | -968.6        | 1,300,329.91            | 3,148,091.35           | 40.156579             | -104.970195 |  |
| 13,328.0                     | 88.10              | 357.40         | 7,438.4                   | 6,396.5       | -972.9        | 1,300,424.72            | 3,148,086.39           | 40.156839             | -104.970211 |  |
| 13,423.0                     | 88.80              | 357.40         | 7,441.0                   | 6,491.4       | -977.3        | 1,300,519.56            | 3,148,081.51           | 40.157100             | -104.970227 |  |
| 13,518.0                     | 89.00              | 356.50         | 7,442.8                   | 6,586.2       | -982.3        | 1,300,614.37            | 3,148,075.89           | 40.157360             | -104.970245 |  |
| 13,612.0                     | 89.40              | 356.10         | 7,444.1                   | 6,680.0       | -988.4        | 1,300,708.13            | 3,148,069.26           | 40.157618             | -104.970266 |  |
| 13,707.0                     | 90.60              | 355.30         | 7,444.1                   | 6,774.8       | -995.5        | 1,300,802.82            | 3,148,061.57           | 40.157878             | -104.970292 |  |
| 13,802.0                     | 91.20              | 357.90         | 7,442.6                   | 6,869.6       | -1,001.1      | 1,300,897.59            | 3,148,055.36           | 40.158138             | -104.970312 |  |
| 13,897.0                     | 89.20              | 359.40         | 7,442.3                   | 6,964.5       | -1,003.4      | 1,300,992.54            | 3,148,052.55           | 40.158399             | -104.970320 |  |
| 13,992.0                     | 89.80              | 359.20         | 7,443.1                   | 7,059.5       | -1,004.5      | 1,301,087.52            | 3,148,050.82           | 40.158659             | -104.970324 |  |
| 14,087.0                     | 90.20              | 358.90         | 7,443.1                   | 7,154.5       | -1,006.1      | 1,301,182.50            | 3,148,048.67           | 40.158920             | -104.970330 |  |
| 14,143.0                     | 90.40              | 358.50         | 7,442.9                   | 7,210.5       | -1,007.4      | 1,301,238.47            | 3,148,047.07           | 40.159074             | -104.970334 |  |
| Last CES Survey @ 14,143' MD |                    |                |                           |               |               |                         |                        |                       |             |  |
| 14,193.0                     | 90.40              | 358.50         | 7,442.5                   | 7,260.5       | -1,008.7      | 1,301,288.45            | 3,148,045.46           | 40.159211             | -104.970339 |  |
| PTB @ 14,193'                |                    |                |                           |               |               |                         |                        |                       |             |  |

# Cathedral Energy Services

## Survey Report - Geographic

|                  |  |                                     |                              |
|------------------|--|-------------------------------------|------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc                   | <b>Local Co-ordinate Reference:</b> | Well Grant-Hurt 1A-14H-G268  |
| <b>Project:</b>  | DJ Wattenberg                                | <b>TVD Reference:</b>               | 32' KB @ 4920.0ft (PATT 326) |
| <b>Site:</b>     | S14-T2N-R68W (Grant Elmquist/Salisbury/Hurt) | <b>MD Reference:</b>                | 32' KB @ 4920.0ft (PATT 326) |
| <b>Well:</b>     | Grant-Hurt 1A-14H-G268                       | <b>North Reference:</b>             | True                         |
| <b>Wellbore:</b> | Hz   | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Design:</b>   | FINAL  | <b>Database:</b>                    | USA EDM 5000 Multi Users DB  |

| Design Targets   |           |          |         |         |        |              |              |           |             |
|--|-----------|----------|---------|---------|--------|--------------|--------------|-----------|-------------|
| Target Name  |           |          |         |         |        |              |              |           |             |
| - hit/miss target  | Dip Angle | Dip Dir. | TVD     | +N/-S   | +E/-W  | Northing     | Easting      | Latitude  | Longitude   |
| - Shape  | (°)       | (°)      | (ft)    | (ft)    | (ft)   | (ft)         | (ft)         |           |             |
| Grant-Hurt 1A-14H-G268   | 0.00      | 0.00     | 7,385.0 | 7,307.5 | -997.8 | 1,301,335.54 | 3,148,056.05 | 40.159340 | -104.970300 |
| - actual wellpath misses target center by 75.1ft at 14193.0ft MD (7442.5 TVD, 7260.5 N, -1008.7 E) |           |          |         |         |        |              |              |           |             |
| - Point  |           |          |         |         |        |              |              |           |             |

| Design Annotations |                |                   |            |                              |
|--------------------|----------------|-------------------|------------|------------------------------|
| Measured Depth     | Vertical Depth | Local Coordinates |            | Comment                      |
| (ft)               | (ft)           | +N/-S (ft)        | +E/-W (ft) |                              |
| 14,143.0           | 7,442.9        | 7,210.5           | -1,007.4   | Last CES Survey @ 14,143' MD |
| 14,193.0           | 7,442.5        | 7,260.5           | -1,008.7   | PTB @ 14,193'                |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_