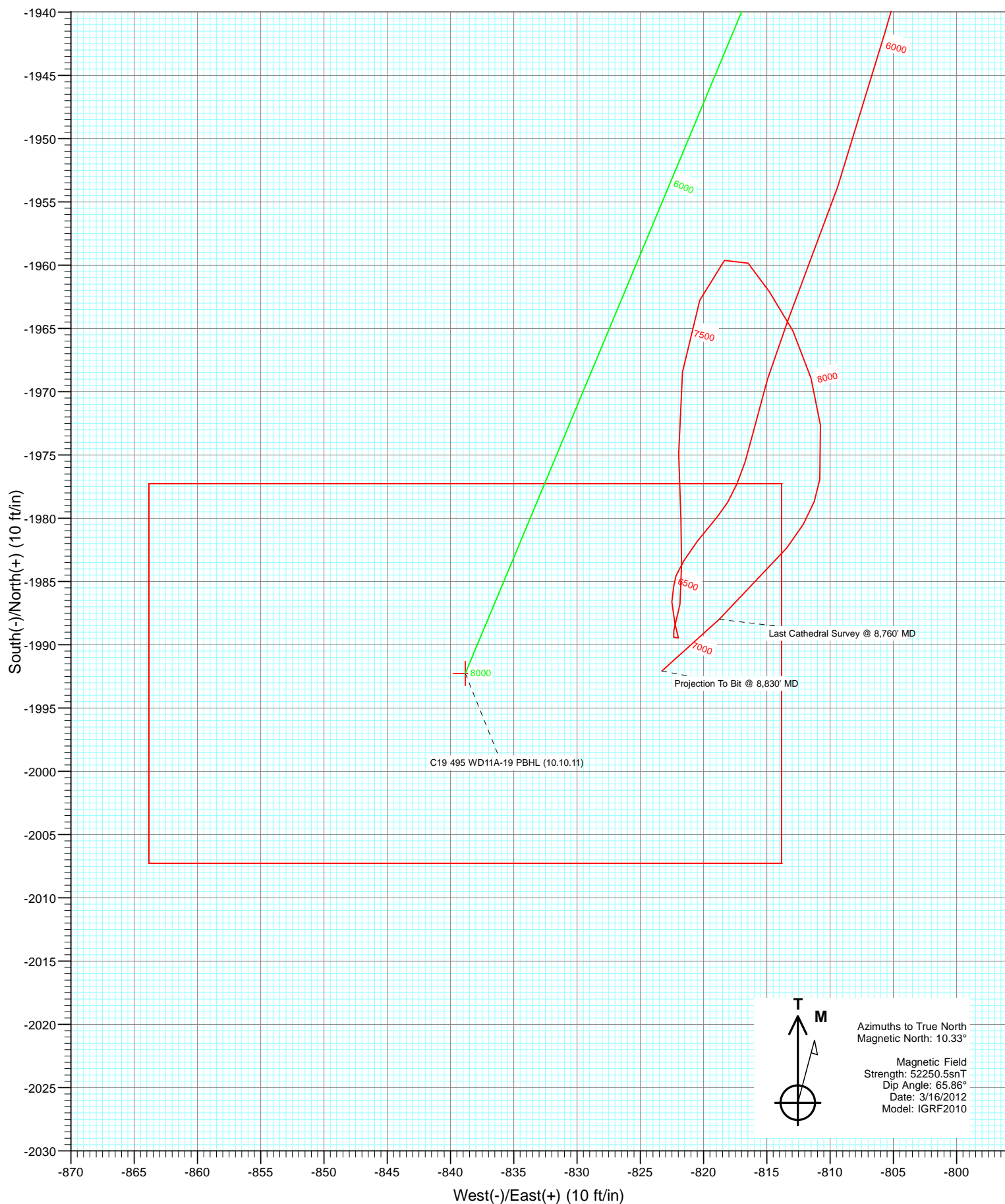


Azimuths to True North
Magnetic North: 10.33°

Magnetic Field
Strength: 52250.5nT
Dip Angle: 65.86°
Date: 3/16/2012
Model: IGRF2010

| DD | | | | | | | |
|---|----------------------------------|----------|--------|-----------------|----------------|-----|----------|
| WD11A-19 C19 495 (was 11C) | | | | | | | |
| 125139 141155; 145355 125169LR | | | | | | | |
| KB=32 @ 8159.0ft (Patterson 330) | | | | | | | |
| GL @ 8127.0 | | | | | | | |
| North American Datum 1983 | | | | | | | |
| Well WD11A-19 C19 495 (was 11C), True North | | | | | | | |
| Type | Target | Azimuth | Origin | Type | N/S | E/W | From TVD |
| Target | C19 495 WD11A-19 PBHL (10.10.11) | 10.10.11 | 83 | Slot | 0.0 | 0.0 | 0.0 |
| Name | TV | +N/-S | +E/-W | Latitude | Longitude | | |
| C19 495 WD11A-19 PBHL (10.10.11) | 8353.0 | -1992.3 | -838.8 | 39° 41' 15.60 N | 108° 6' 6.49 W | | |



Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well WD11A-19 C19 495 (was 11C) |
| Project: | Story Gulch | TVD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Site: | C19 495 | MD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Well: | WD11A-19 C19 495 (was 11C) | North Reference: | True |
| Wellbore: | DD | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | USA EDM 5000 Multi Users DB |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Story Gulch | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| Site | | C19 495 | | | |
|-----------------------|----------|--------------|-----------------|-------------------|-----------------|
| Site Position: | | Northing: | 1,687,624.39 ft | Latitude: | 39° 41' 33.36 N |
| From: | Lat/Long | Easting: | 2,268,676.50 ft | Longitude: | 108° 5' 56.88 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.64 ° |

| | | | | | | |
|----------------------|----------------------------|--------|---------------------|-----------------|---------------|-----------------|
| Well | WD11A-19 C19 495 (was 11C) | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,687,817.05 ft | Latitude: | 39° 41' 35.29 N |
| | +E/-W | 0.0 ft | Easting: | 2,268,769.60 ft | Longitude: | 108° 5' 55.76 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 8,127.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 3/16/2012 | 10.33 | 65.86 | 52,250 |

| | | | | | |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| Design | DD | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction | |
| | (ft) | (ft) | (ft) | (°) | |
| | 0.0 | 0.0 | 0.0 | 202.83 | |

| | | | | | |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 3/25/2012 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 174.0 | 8,830.0 | Survey #1 (DD) | MWD | Geolink MWD | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|------------------------------|--|
| 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 | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | | |
| 174.0 | 1.20 | 198.50 | 174.0 | -1.7 | -0.6 | 1.8 | 0.69 | 0.69 | | |
| 204.0 | 2.20 | 200.40 | 204.0 | -2.6 | -0.9 | 2.7 | 3.34 | 3.33 | | |
| 235.0 | 3.40 | 181.70 | 234.9 | -4.0 | -1.1 | 4.2 | 4.82 | 3.87 | | |
| 265.0 | 3.90 | 201.40 | 264.9 | -5.9 | -1.5 | 6.0 | 4.47 | 1.67 | | |
| 296.0 | 4.80 | 201.50 | 295.8 | -8.1 | -2.4 | 8.4 | 2.90 | 2.90 | | |
| 326.0 | 5.60 | 202.30 | 325.7 | -10.6 | -3.4 | 11.1 | 2.68 | 2.67 | | |
| 357.0 | 6.30 | 205.90 | 356.5 | -13.5 | -4.7 | 14.3 | 2.56 | 2.26 | | |
| 388.0 | 6.80 | 206.00 | 387.3 | -16.7 | -6.3 | 17.8 | 1.61 | 1.61 | | |
| 419.0 | 8.00 | 201.20 | 418.0 | -20.4 | -7.8 | 21.8 | 4.35 | 3.87 | | |
| 449.0 | 8.70 | 198.50 | 447.7 | -24.5 | -9.3 | 26.2 | 2.67 | 2.33 | | |
| 480.0 | 9.40 | 199.10 | 478.3 | -29.1 | -10.9 | 31.0 | 2.28 | 2.26 | | |
| 512.0 | 10.10 | 207.10 | 509.9 | -34.0 | -13.0 | 36.4 | 4.76 | 2.19 | | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well WD11A-19 C19 495 (was 11C) |
| Project: | Story Gulch | TVD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Site: | C19 495 | MD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Well: | WD11A-19 C19 495 (was 11C) | North Reference: | True |
| Wellbore: | DD | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 542.0 | 11.00 | 200.90 | 539.4 | -39.1 | -15.2 | 41.9 | 4.82 | 3.00 | |
| 574.0 | 11.70 | 200.80 | 570.7 | -44.9 | -17.5 | 48.2 | 2.19 | 2.19 | |
| 615.0 | 12.10 | 205.20 | 610.9 | -52.7 | -20.8 | 56.7 | 2.42 | 0.98 | |
| 645.0 | 13.10 | 201.10 | 640.1 | -58.7 | -23.3 | 63.2 | 4.47 | 3.33 | |
| 696.0 | 14.10 | 205.00 | 689.7 | -69.8 | -28.1 | 75.2 | 2.66 | 1.96 | |
| 726.0 | 15.20 | 203.10 | 718.7 | -76.7 | -31.1 | 82.8 | 4.00 | 3.67 | |
| 757.0 | 15.60 | 204.70 | 748.6 | -84.2 | -34.5 | 91.0 | 1.88 | 1.29 | |
| 788.0 | 16.40 | 206.60 | 778.4 | -91.9 | -38.2 | 99.5 | 3.08 | 2.58 | |
| 818.0 | 17.30 | 203.70 | 807.1 | -99.8 | -41.9 | 108.2 | 4.10 | 3.00 | |
| 849.0 | 18.20 | 203.10 | 836.7 | -108.5 | -45.6 | 117.7 | 2.96 | 2.90 | |
| 879.0 | 19.40 | 203.20 | 865.1 | -117.3 | -49.4 | 127.3 | 4.00 | 4.00 | |
| 909.0 | 19.90 | 204.10 | 893.3 | -126.6 | -53.5 | 137.4 | 1.95 | 1.67 | |
| 940.0 | 21.10 | 203.40 | 922.3 | -136.5 | -57.8 | 148.3 | 3.95 | 3.87 | |
| 1,032.0 | 22.70 | 203.30 | 1,007.7 | -168.0 | -71.4 | 182.6 | 1.74 | 1.74 | |
| 1,123.0 | 23.80 | 203.00 | 1,091.3 | -201.1 | -85.6 | 218.5 | 1.22 | 1.21 | |
| 1,215.0 | 23.40 | 199.50 | 1,175.6 | -235.4 | -98.9 | 255.3 | 1.58 | -0.43 | |
| 1,306.0 | 23.70 | 200.90 | 1,259.0 | -269.5 | -111.5 | 291.6 | 0.70 | 0.33 | |
| 1,398.0 | 24.70 | 199.70 | 1,343.0 | -304.9 | -124.5 | 329.3 | 1.21 | 1.09 | |
| 1,489.0 | 23.50 | 198.50 | 1,426.0 | -340.0 | -136.7 | 366.4 | 1.42 | -1.32 | |
| 1,579.0 | 22.10 | 203.30 | 1,509.0 | -372.5 | -149.1 | 401.2 | 2.59 | -1.56 | |
| 1,671.0 | 21.60 | 203.30 | 1,594.4 | -404.0 | -162.6 | 435.4 | 0.54 | -0.54 | |
| 1,763.0 | 21.80 | 204.10 | 1,679.9 | -435.1 | -176.3 | 469.5 | 0.39 | 0.22 | |
| 1,854.0 | 21.90 | 204.00 | 1,764.3 | -466.1 | -190.1 | 503.3 | 0.12 | 0.11 | |
| 1,946.0 | 21.20 | 203.70 | 1,849.9 | -497.0 | -203.8 | 537.1 | 0.77 | -0.76 | |
| 2,037.0 | 21.00 | 204.30 | 1,934.8 | -526.9 | -217.1 | 569.9 | 0.32 | -0.22 | |
| 2,129.0 | 21.00 | 204.10 | 2,020.7 | -557.0 | -230.6 | 602.8 | 0.08 | 0.00 | |
| 2,221.0 | 20.70 | 202.10 | 2,106.7 | -587.1 | -243.5 | 635.6 | 0.84 | -0.33 | |
| 2,313.0 | 21.00 | 200.80 | 2,192.6 | -617.6 | -255.4 | 668.3 | 0.60 | 0.33 | |
| 2,404.0 | 20.10 | 203.30 | 2,277.8 | -647.2 | -267.4 | 700.2 | 1.38 | -0.99 | |
| 2,496.0 | 20.30 | 204.20 | 2,364.2 | -676.2 | -280.2 | 732.0 | 0.40 | 0.22 | |
| 2,587.0 | 20.70 | 203.20 | 2,449.4 | -705.4 | -293.0 | 763.8 | 0.58 | 0.44 | |
| 2,679.0 | 20.80 | 204.60 | 2,535.5 | -735.2 | -306.2 | 796.4 | 0.55 | 0.11 | |
| 2,770.0 | 21.20 | 204.50 | 2,620.4 | -764.9 | -319.8 | 829.0 | 0.44 | 0.44 | |
| 2,862.0 | 21.00 | 205.00 | 2,706.2 | -795.0 | -333.6 | 862.1 | 0.29 | -0.22 | |
| 2,972.0 | 21.30 | 204.90 | 2,808.8 | -830.9 | -350.4 | 901.8 | 0.27 | 0.27 | |
| 3,087.0 | 21.10 | 203.70 | 2,916.1 | -868.8 | -367.5 | 943.4 | 0.42 | -0.17 | |
| 3,178.0 | 18.80 | 198.30 | 3,001.6 | -897.8 | -378.7 | 974.4 | 3.24 | -2.53 | |
| 3,270.0 | 16.60 | 201.10 | 3,089.2 | -924.1 | -388.1 | 1,002.3 | 2.56 | -2.39 | |
| 3,362.0 | 17.30 | 205.30 | 3,177.2 | -948.7 | -398.7 | 1,029.1 | 1.53 | 0.76 | |
| 3,453.0 | 20.80 | 204.50 | 3,263.2 | -975.7 | -411.1 | 1,058.8 | 3.86 | 3.85 | |
| 3,545.0 | 21.50 | 201.90 | 3,349.0 | -1,006.2 | -424.2 | 1,092.0 | 1.27 | 0.76 | |
| 3,636.0 | 22.10 | 204.50 | 3,433.5 | -1,037.2 | -437.5 | 1,125.7 | 1.25 | 0.66 | |
| 3,728.0 | 22.70 | 203.00 | 3,518.6 | -1,069.3 | -451.6 | 1,160.8 | 0.90 | 0.65 | |
| 3,820.0 | 22.90 | 201.80 | 3,603.4 | -1,102.3 | -465.2 | 1,196.4 | 0.55 | 0.22 | |
| 3,912.0 | 21.10 | 200.40 | 3,688.7 | -1,134.4 | -477.6 | 1,230.9 | 2.04 | -1.96 | |
| 4,003.0 | 19.50 | 200.30 | 3,774.1 | -1,164.0 | -488.6 | 1,262.4 | 1.76 | -1.76 | |
| 4,095.0 | 19.50 | 205.40 | 3,860.8 | -1,192.3 | -500.5 | 1,293.1 | 1.85 | 0.00 | |
| 4,186.0 | 20.40 | 203.50 | 3,946.3 | -1,220.6 | -513.4 | 1,324.1 | 1.22 | 0.99 | |
| 4,278.0 | 19.40 | 207.00 | 4,032.8 | -1,248.9 | -526.7 | 1,355.4 | 1.69 | -1.09 | |
| 4,369.0 | 20.00 | 204.80 | 4,118.5 | -1,276.5 | -540.1 | 1,386.0 | 1.05 | 0.66 | |
| 4,461.0 | 23.10 | 203.60 | 4,204.1 | -1,307.3 | -553.9 | 1,419.8 | 3.40 | 3.37 | |
| 4,552.0 | 24.60 | 203.00 | 4,287.3 | -1,341.1 | -568.5 | 1,456.6 | 1.67 | 1.65 | |
| 4,644.0 | 25.80 | 204.50 | 4,370.5 | -1,377.0 | -584.3 | 1,495.8 | 1.48 | 1.30 | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well WD11A-19 C19 495 (was 11C) |
| Project: | Story Gulch | TVD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Site: | C19 495 | MD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Well: | WD11A-19 C19 495 (was 11C) | North Reference: | True |
| Wellbore: | DD | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | 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 |
| 4,736.0 | 24.20 | 206.80 | 4,453.9 | -1,412.0 | -601.1 | 1,534.6 | 2.03 | -1.74 | |
| 4,827.0 | 24.80 | 202.10 | 4,536.7 | -1,446.3 | -616.7 | 1,572.3 | 2.24 | 0.66 | |
| 4,919.0 | 24.00 | 200.40 | 4,620.5 | -1,481.8 | -630.4 | 1,610.3 | 1.16 | -0.87 | |
| 5,010.0 | 23.80 | 200.70 | 4,703.7 | -1,516.3 | -643.4 | 1,647.1 | 0.26 | -0.22 | |
| 5,102.0 | 24.20 | 203.20 | 4,787.8 | -1,551.0 | -657.4 | 1,684.5 | 1.19 | 0.43 | |
| 5,194.0 | 24.30 | 201.20 | 4,871.6 | -1,586.0 | -671.6 | 1,722.3 | 0.90 | 0.11 | |
| 5,285.0 | 25.10 | 204.30 | 4,954.3 | -1,621.0 | -686.4 | 1,760.3 | 1.67 | 0.88 | |
| 5,377.0 | 22.50 | 200.70 | 5,038.5 | -1,655.3 | -700.6 | 1,797.4 | 3.24 | -2.83 | |
| 5,468.0 | 22.20 | 202.10 | 5,122.7 | -1,687.5 | -713.2 | 1,832.0 | 0.67 | -0.33 | |
| 5,560.0 | 20.90 | 201.80 | 5,208.2 | -1,718.8 | -725.9 | 1,865.8 | 1.42 | -1.41 | |
| 5,651.0 | 21.40 | 201.60 | 5,293.1 | -1,749.3 | -738.0 | 1,898.6 | 0.56 | 0.55 | |
| 5,742.0 | 20.60 | 201.20 | 5,378.0 | -1,779.7 | -749.9 | 1,931.2 | 0.89 | -0.88 | |
| 5,834.0 | 19.40 | 198.50 | 5,464.5 | -1,809.3 | -760.6 | 1,962.6 | 1.65 | -1.30 | |
| 5,925.0 | 18.10 | 197.00 | 5,550.7 | -1,837.1 | -769.5 | 1,991.8 | 1.52 | -1.43 | |
| 6,017.0 | 17.10 | 201.30 | 5,638.4 | -1,863.4 | -778.6 | 2,019.5 | 1.78 | -1.09 | |
| 6,108.0 | 15.30 | 197.70 | 5,725.8 | -1,887.3 | -787.1 | 2,044.9 | 2.26 | -1.98 | |
| 6,200.0 | 13.50 | 197.40 | 5,814.9 | -1,909.1 | -794.0 | 2,067.6 | 1.96 | -1.96 | |
| 6,291.0 | 10.80 | 203.20 | 5,903.8 | -1,927.1 | -800.6 | 2,086.7 | 3.25 | -2.97 | |
| 6,383.0 | 8.40 | 194.30 | 5,994.5 | -1,941.5 | -805.6 | 2,102.0 | 3.06 | -2.61 | |
| 6,474.0 | 7.90 | 200.00 | 6,084.6 | -1,953.8 | -809.4 | 2,114.8 | 1.04 | -0.55 | |
| 6,566.0 | 6.30 | 200.90 | 6,175.9 | -1,964.5 | -813.4 | 2,126.2 | 1.74 | -1.74 | |
| 6,657.0 | 5.60 | 193.00 | 6,266.4 | -1,973.5 | -816.2 | 2,135.6 | 1.18 | -0.77 | |
| 6,749.0 | 3.40 | 220.80 | 6,358.1 | -1,979.9 | -819.0 | 2,142.6 | 3.30 | -2.39 | |
| 6,841.0 | 2.00 | 211.10 | 6,450.0 | -1,983.4 | -821.6 | 2,146.8 | 1.60 | -1.52 | |
| 6,932.0 | 0.80 | 177.00 | 6,541.0 | -1,985.4 | -822.4 | 2,148.9 | 1.55 | -1.32 | |
| 7,023.0 | 0.80 | 196.80 | 6,632.0 | -1,986.6 | -822.5 | 2,150.1 | 0.30 | 0.00 | |
| 7,109.0 | 1.60 | 160.30 | 6,718.0 | -1,988.3 | -822.3 | 2,151.6 | 1.24 | 0.93 | |
| 7,201.0 | 0.20 | 296.60 | 6,810.0 | -1,989.5 | -822.0 | 2,152.5 | 1.90 | -1.52 | |
| 7,292.0 | 0.30 | 261.70 | 6,901.0 | -1,989.4 | -822.4 | 2,152.6 | 0.20 | 0.11 | |
| 7,384.0 | 0.80 | 23.20 | 6,993.0 | -1,988.9 | -822.3 | 2,152.1 | 1.08 | 0.54 | |
| 7,475.0 | 1.90 | 8.80 | 7,083.9 | -1,986.8 | -821.9 | 2,150.0 | 1.26 | 1.21 | |
| 7,566.0 | 2.00 | 356.40 | 7,174.9 | -1,983.7 | -821.7 | 2,147.1 | 0.48 | 0.11 | |
| 7,658.0 | 2.50 | 1.40 | 7,266.8 | -1,980.1 | -821.8 | 2,143.8 | 0.58 | 0.54 | |
| 7,750.0 | 4.00 | 355.90 | 7,358.7 | -1,974.9 | -822.0 | 2,139.1 | 1.66 | 1.63 | |
| 7,841.0 | 4.20 | 9.00 | 7,449.4 | -1,968.4 | -821.7 | 2,133.0 | 1.05 | 0.22 | |
| 7,933.0 | 3.10 | 19.80 | 7,541.2 | -1,962.8 | -820.3 | 2,127.3 | 1.40 | -1.20 | |
| 8,025.0 | 1.70 | 54.20 | 7,633.2 | -1,959.6 | -818.3 | 2,123.6 | 2.12 | -1.52 | |
| 8,116.0 | 1.60 | 142.00 | 7,724.1 | -1,959.8 | -816.5 | 2,123.1 | 2.52 | -0.11 | |
| 8,208.0 | 1.90 | 144.40 | 7,816.1 | -1,962.1 | -814.8 | 2,124.5 | 0.34 | 0.33 | |
| 8,300.0 | 2.60 | 152.40 | 7,908.0 | -1,965.2 | -812.9 | 2,126.6 | 0.83 | 0.76 | |
| 8,391.0 | 2.50 | 166.00 | 7,998.9 | -1,968.9 | -811.5 | 2,129.6 | 0.67 | -0.11 | |
| 8,483.0 | 2.20 | 171.90 | 8,090.9 | -1,972.6 | -810.8 | 2,132.7 | 0.42 | -0.33 | |
| 8,575.0 | 3.20 | 186.70 | 8,182.8 | -1,976.9 | -810.8 | 2,136.7 | 1.32 | 1.09 | |
| 8,667.0 | 4.60 | 218.70 | 8,274.5 | -1,982.4 | -813.4 | 2,142.7 | 2.76 | 1.52 | |
| 8,747.2 | 4.94 | 226.73 | 8,354.5 | -1,987.2 | -818.0 | 2,148.9 | 0.93 | 0.42 | C19 495 WD11A-19 PBHL (10.10.11) |
| 8,760.0 | 5.00 | 227.90 | 8,367.2 | -1,988.0 | -818.8 | 2,149.9 | 0.93 | 0.49 | Last Cathedral Survey @ 8,760' MD |
| 8,830.0 | 5.00 | 227.90 | 8,437.0 | -1,992.1 | -823.3 | 2,155.5 | 0.00 | 0.00 | Projection To Bit @ 8,830' MD |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|-----------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well WD11A-19 C19 495 (was 11C) |
| Project: | Story Gulch | TVD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Site: | C19 495 | MD Reference: | KB=32' @ 8159.0ft (Patterson 330) |
| Well: | WD11A-19 C19 495 (was 11C) | North Reference: | True |
| Wellbore: | DD | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | USA EDM 5000 Multi Users DB |

| 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) | | |
| C19 495 WD11A-19 PBI | 0.00 | 0.00 | 8,353.0 | -1,992.3 | -838.8 | 1,685,849.59 | 2,267,874.13 | 39° 41' 15.60 N | 108° 6' 6.49 W |
| - actual wellpath misses target center by 21.5ft at 8747.4ft MD (8354.6 TVD, -1987.2 N, -818.0 E) | | | | | | | | | |
| - Rectangle (sides W30.0 H50.0 D0.0) | | | | | | | | | |

| Design Annotations | | | | | |
|--------------------|----------------|-------------------|------------|-----------------------------------|--|
| Measured Depth | Vertical Depth | Local Coordinates | | | |
| (ft) | (ft) | +N/-S (ft) | +E/-W (ft) | Comment | |
| 8,760.0 | 8,367.2 | -1,988.0 | -818.8 | Last Cathedral Survey @ 8,760' MD | |
| 8,830.0 | 8,437.0 | -1,992.1 | -823.3 | Projection To Bit @ 8,830' MD | |

Checked By: _____ Approved By: _____ Date: _____