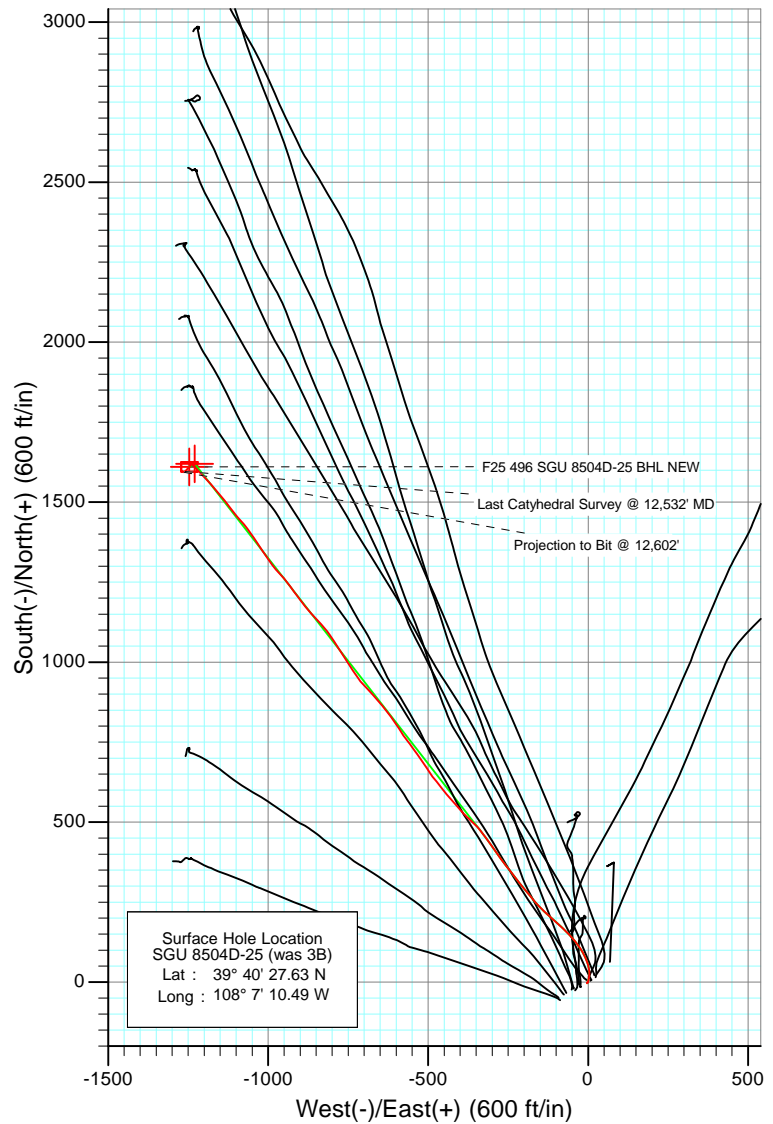
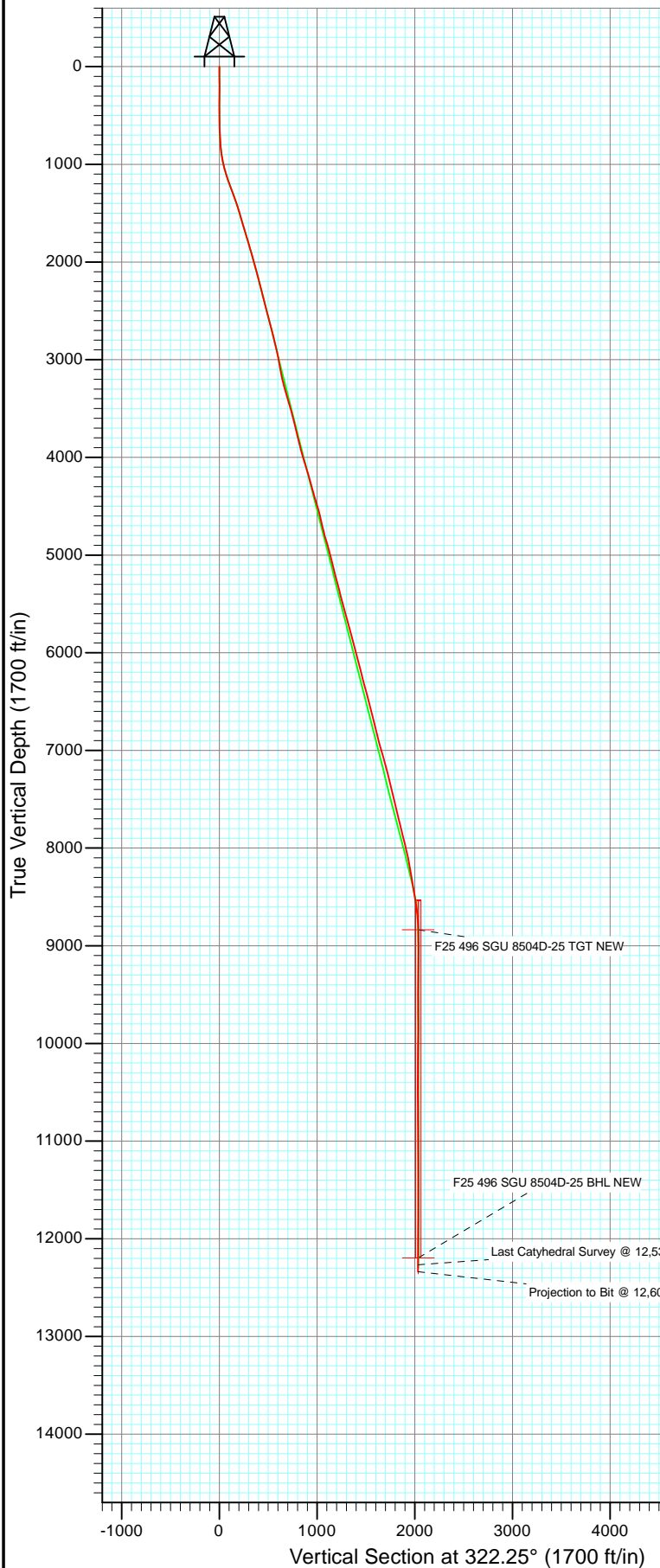




Project: Story Gulch
 Site: F25 496
 Well: SGU 8504D-25 (was 3B)
 Wellbore: DD
 Design: FINAL



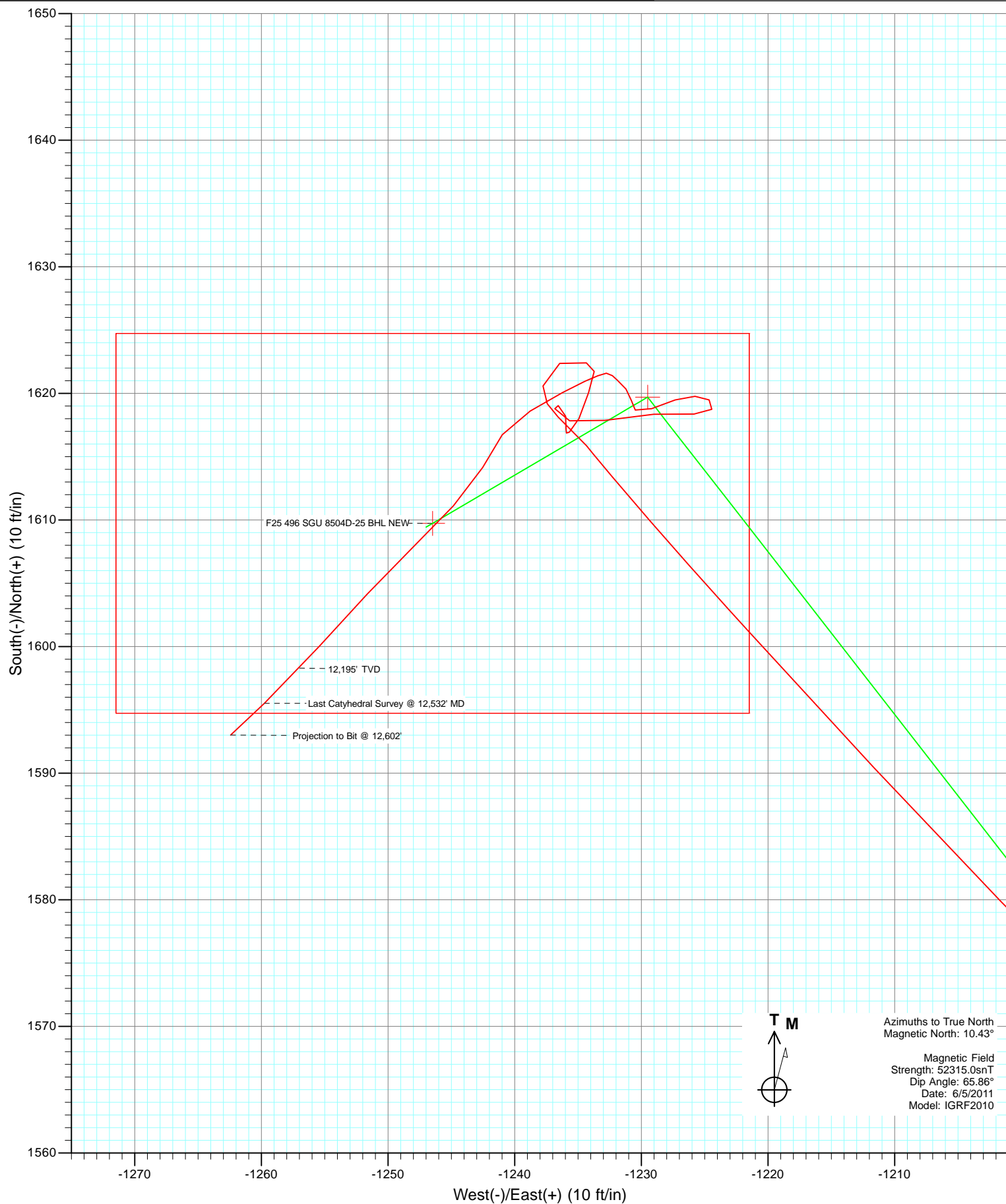
Azimuths to True North
 Magnetic North: 10.43°

Magnetic Field
 Strength: 52315.0snT
 Dip Angle: 65.86°
 Date: 6/5/2011
 Model: IGRF2010

| | | | | | | |
|---|---------|------------------------------|---------|-----------------|-----------------|----------|
| DD SGU 8504D-25 (was 3B) 105567 (SH) /115233 (MH): BH | | | | | | |
| KBE @ 8320.0ft (Patterson 306) North American Datum 1983 Well SGU 8504D-25 (was 3B), True North | | | | | | |
| Type | Target | F25 496 SGU 8504D-25 BHL NEW | Azimuth | 322.25 | Origin Type | N/S |
| | Target | | | Slot | | 0.0 |
| | | | | | E/W | From TVD |
| | | | | | | 0.0 |
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | |
| F25 496 SGU 8504D-25 TGT NEW | 8835.0 | 1619.7 | -1229.5 | 39° 40' 43.64 N | 108° 7' 26.22 W | |
| F25 496 SGU 8504D-25 BHL NEW | 12195.0 | 1609.7 | -1246.5 | 39° 40' 43.54 N | 108° 7' 26.44 W | |



Project: Story Gulch
Site: F25 496
Well: SGU 8504D-25 (was 3B)
Wellbore: DD
Design: FINAL



Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well SGU 8504D-25 (was 3B) |
| Project: | Story Gulch | TVD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Site: | F25 496 | MD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Well: | SGU 8504D-25 (was 3B) | 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 | | F25 496 | | | |
| Site Position: | | Northing: | 1,681,091.06 ft | Latitude: | 39° 40' 27.10 N |
| From: | Lat/Long | Easting: | 2,262,632.54 ft | Longitude: | 108° 7' 11.76 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.65 ° |

| | | | | | | |
|----------------------|-----------------------|--------|---------------------|-----------------|---------------|-----------------|
| Well | SGU 8504D-25 (was 3B) | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,681,141.93 ft | Latitude: | 39° 40' 27.63 N |
| | +E/-W | 0.0 ft | Easting: | 2,262,732.70 ft | Longitude: | 108° 7' 10.49 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 8,298.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/5/2011 | 10.43 | 65.86 | 52,315 |

| | | | | | |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| 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 | 322.25 | |

| | | | | | |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 12/6/2011 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 187.0 | 2,970.0 | Survey #1 (DD) | MWD | Geolink MWD | |
| 3,093.0 | 12,602.0 | Survey #2 (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 | | |
| 187.0 | 1.10 | 246.80 | 187.0 | -0.7 | -1.6 | 0.5 | 0.59 | 0.59 | | |
| 218.0 | 1.10 | 240.90 | 218.0 | -1.0 | -2.2 | 0.6 | 0.37 | 0.00 | | |
| 248.0 | 1.10 | 228.30 | 248.0 | -1.3 | -2.6 | 0.6 | 0.80 | 0.00 | | |
| 279.0 | 1.20 | 222.30 | 279.0 | -1.7 | -3.1 | 0.5 | 0.50 | 0.32 | | |
| 310.0 | 0.80 | 205.10 | 310.0 | -2.2 | -3.4 | 0.4 | 1.60 | -1.29 | | |
| 341.0 | 0.70 | 168.10 | 341.0 | -2.6 | -3.5 | 0.1 | 1.57 | -0.32 | | |
| 371.0 | 0.60 | 173.30 | 371.0 | -2.9 | -3.4 | -0.2 | 0.39 | -0.33 | | |
| 402.0 | 0.60 | 148.50 | 402.0 | -3.2 | -3.3 | -0.5 | 0.83 | 0.00 | | |
| 433.0 | 0.50 | 114.50 | 433.0 | -3.4 | -3.1 | -0.8 | 1.08 | -0.32 | | |
| 463.0 | 0.70 | 52.90 | 463.0 | -3.3 | -2.8 | -0.9 | 2.13 | 0.67 | | |
| 494.0 | 1.30 | 37.10 | 494.0 | -2.9 | -2.5 | -0.8 | 2.11 | 1.94 | | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well SGU 8504D-25 (was 3B) |
| Project: | Story Gulch | TVD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Site: | F25 496 | MD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Well: | SGU 8504D-25 (was 3B) | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-------------------------------|
| 525.0 | 1.70 | 27.40 | 524.9 | -2.2 | -2.0 | -0.5 | 1.52 | 1.29 | |
| 557.0 | 2.10 | 23.90 | 556.9 | -1.3 | -1.6 | -0.1 | 1.30 | 1.25 | |
| 588.0 | 2.90 | 23.40 | 587.9 | 0.0 | -1.0 | 0.6 | 2.58 | 2.58 | |
| 620.0 | 3.30 | 18.00 | 619.8 | 1.6 | -0.4 | 1.5 | 1.55 | 1.25 | |
| 651.0 | 3.80 | 19.20 | 650.8 | 3.4 | 0.2 | 2.6 | 1.63 | 1.61 | |
| 683.0 | 4.50 | 18.20 | 682.7 | 5.6 | 0.9 | 3.8 | 2.20 | 2.19 | |
| 715.0 | 4.80 | 16.30 | 714.6 | 8.1 | 1.7 | 5.3 | 1.05 | 0.94 | |
| 779.0 | 6.00 | 8.60 | 778.3 | 13.9 | 2.9 | 9.2 | 2.19 | 1.87 | |
| 842.0 | 8.00 | 2.80 | 840.8 | 21.6 | 3.7 | 14.8 | 3.36 | 3.17 | |
| 906.0 | 10.50 | 356.60 | 904.0 | 31.8 | 3.5 | 23.0 | 4.20 | 3.91 | |
| 969.0 | 12.70 | 349.00 | 965.7 | 44.4 | 1.9 | 33.9 | 4.24 | 3.49 | |
| 1,033.0 | 14.60 | 342.90 | 1,027.9 | 59.0 | -1.9 | 47.8 | 3.72 | 2.97 | |
| 1,096.0 | 16.50 | 336.60 | 1,088.6 | 74.8 | -7.7 | 63.9 | 4.03 | 3.02 | |
| 1,164.0 | 19.10 | 329.60 | 1,153.4 | 93.3 | -17.2 | 84.3 | 4.95 | 3.82 | |
| 1,287.0 | 21.80 | 320.80 | 1,268.6 | 128.3 | -41.8 | 127.1 | 3.32 | 2.20 | |
| 1,381.0 | 18.70 | 315.60 | 1,356.8 | 152.6 | -63.4 | 159.5 | 3.81 | -3.30 | |
| 1,475.0 | 17.90 | 313.30 | 1,446.1 | 173.3 | -84.5 | 188.7 | 1.15 | -0.85 | |
| 1,571.0 | 17.40 | 312.00 | 1,537.5 | 193.0 | -105.9 | 217.4 | 0.66 | -0.52 | |
| 1,666.0 | 16.60 | 310.80 | 1,628.4 | 211.4 | -126.7 | 244.7 | 0.92 | -0.84 | |
| 1,761.0 | 16.80 | 314.90 | 1,719.4 | 230.0 | -146.7 | 271.6 | 1.26 | 0.21 | |
| 1,856.0 | 17.00 | 320.70 | 1,810.3 | 250.4 | -165.2 | 299.1 | 1.79 | 0.21 | |
| 1,952.0 | 15.80 | 319.80 | 1,902.4 | 271.2 | -182.6 | 326.2 | 1.28 | -1.25 | |
| 2,047.0 | 15.20 | 320.30 | 1,993.9 | 290.7 | -198.9 | 351.6 | 0.65 | -0.63 | |
| 2,142.0 | 14.90 | 322.50 | 2,085.7 | 310.0 | -214.3 | 376.3 | 0.68 | -0.32 | |
| 2,237.0 | 14.90 | 321.30 | 2,177.5 | 329.2 | -229.3 | 400.7 | 0.32 | 0.00 | |
| 2,332.0 | 14.30 | 321.90 | 2,269.4 | 348.0 | -244.2 | 424.6 | 0.65 | -0.63 | |
| 2,427.0 | 14.30 | 321.80 | 2,361.5 | 366.4 | -258.7 | 448.1 | 0.03 | 0.00 | |
| 2,522.0 | 14.40 | 324.10 | 2,453.5 | 385.2 | -272.9 | 471.6 | 0.61 | 0.11 | |
| 2,618.0 | 14.20 | 325.00 | 2,546.5 | 404.5 | -286.6 | 495.3 | 0.31 | -0.21 | |
| 2,713.0 | 15.10 | 324.80 | 2,638.4 | 424.2 | -300.4 | 519.3 | 0.95 | 0.95 | |
| 2,808.0 | 14.40 | 324.80 | 2,730.3 | 443.9 | -314.4 | 543.5 | 0.74 | -0.74 | |
| 2,904.0 | 13.70 | 321.70 | 2,823.4 | 462.6 | -328.3 | 566.8 | 1.07 | -0.73 | |
| 2,970.0 | 13.00 | 321.60 | 2,887.6 | 474.6 | -337.8 | 582.0 | 1.06 | -1.06 | Last Cathedral svy @ 2970' MD |
| 3,093.0 | 10.60 | 316.00 | 3,008.0 | 493.5 | -354.2 | 607.1 | 2.16 | -1.95 | |
| 3,185.0 | 10.00 | 310.70 | 3,098.6 | 504.8 | -366.2 | 623.3 | 1.22 | -0.65 | |
| 3,276.0 | 12.30 | 313.30 | 3,187.8 | 516.6 | -379.2 | 640.7 | 2.59 | 2.53 | |
| 3,368.0 | 16.10 | 318.60 | 3,277.0 | 532.9 | -394.8 | 663.1 | 4.36 | 4.13 | |
| 3,460.0 | 16.30 | 318.80 | 3,365.4 | 552.2 | -411.7 | 688.7 | 0.23 | 0.22 | |
| 3,551.0 | 15.50 | 318.30 | 3,452.9 | 570.9 | -428.2 | 713.6 | 0.89 | -0.88 | |
| 3,643.0 | 15.90 | 321.70 | 3,541.4 | 590.0 | -444.2 | 738.4 | 1.09 | 0.43 | |
| 3,734.0 | 14.30 | 321.00 | 3,629.3 | 608.5 | -459.0 | 762.1 | 1.77 | -1.76 | |
| 3,826.0 | 13.50 | 320.60 | 3,718.6 | 625.6 | -473.0 | 784.2 | 0.88 | -0.87 | |
| 3,917.0 | 13.10 | 321.30 | 3,807.2 | 641.9 | -486.2 | 805.2 | 0.47 | -0.44 | |
| 4,009.0 | 15.30 | 329.60 | 3,896.4 | 660.5 | -498.8 | 827.6 | 3.25 | 2.39 | |
| 4,100.0 | 15.70 | 323.90 | 3,984.1 | 680.8 | -512.2 | 851.9 | 1.73 | 0.44 | |
| 4,192.0 | 17.60 | 325.80 | 4,072.2 | 702.4 | -527.3 | 878.2 | 2.15 | 2.07 | |
| 4,283.0 | 16.30 | 323.30 | 4,159.2 | 724.0 | -542.7 | 904.7 | 1.64 | -1.43 | |
| 4,375.0 | 15.00 | 324.80 | 4,247.8 | 744.1 | -557.3 | 929.5 | 1.48 | -1.41 | |
| 4,466.0 | 15.70 | 321.90 | 4,335.6 | 763.4 | -571.6 | 953.6 | 1.14 | 0.77 | |
| 4,558.0 | 17.50 | 327.10 | 4,423.7 | 784.8 | -586.8 | 979.8 | 2.54 | 1.96 | |
| 4,649.0 | 16.10 | 327.70 | 4,510.9 | 806.9 | -601.0 | 1,006.0 | 1.55 | -1.54 | |
| 4,741.0 | 13.50 | 325.50 | 4,599.8 | 826.6 | -613.9 | 1,029.4 | 2.89 | -2.83 | |
| 4,833.0 | 13.30 | 322.30 | 4,689.3 | 843.8 | -626.5 | 1,050.7 | 0.83 | -0.22 | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well SGU 8504D-25 (was 3B) |
| Project: | Story Gulch | TVD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Site: | F25 496 | MD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Well: | SGU 8504D-25 (was 3B) | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 4,924.0 | 13.90 | 319.50 | 4,777.7 | 860.4 | -640.0 | 1,072.1 | 0.98 | 0.66 | |
| 5,016.0 | 16.90 | 317.30 | 4,866.4 | 878.6 | -656.2 | 1,096.5 | 3.32 | 3.26 | |
| 5,107.0 | 15.90 | 319.70 | 4,953.7 | 897.9 | -673.3 | 1,122.1 | 1.33 | -1.10 | |
| 5,199.0 | 13.90 | 316.50 | 5,042.6 | 915.5 | -689.0 | 1,145.7 | 2.35 | -2.17 | |
| 5,290.0 | 13.80 | 318.00 | 5,131.0 | 931.5 | -703.8 | 1,167.4 | 0.41 | -0.11 | |
| 5,382.0 | 14.80 | 323.10 | 5,220.1 | 949.0 | -718.2 | 1,190.1 | 1.75 | 1.09 | |
| 5,473.0 | 15.00 | 327.40 | 5,308.1 | 968.2 | -731.5 | 1,213.4 | 1.23 | 0.22 | |
| 5,565.0 | 13.50 | 327.10 | 5,397.3 | 987.3 | -743.8 | 1,236.0 | 1.63 | -1.63 | |
| 5,656.0 | 15.40 | 327.50 | 5,485.4 | 1,006.4 | -756.0 | 1,258.6 | 2.09 | 2.09 | |
| 5,748.0 | 15.60 | 326.90 | 5,574.0 | 1,027.1 | -769.3 | 1,283.1 | 0.28 | 0.22 | |
| 5,839.0 | 14.90 | 326.80 | 5,661.8 | 1,047.1 | -782.4 | 1,307.0 | 0.77 | -0.77 | |
| 5,921.0 | 15.30 | 327.00 | 5,741.0 | 1,065.0 | -794.1 | 1,328.3 | 0.49 | 0.49 | |
| 6,013.0 | 15.00 | 325.60 | 5,829.8 | 1,085.0 | -807.4 | 1,352.2 | 0.51 | -0.33 | |
| 6,104.0 | 15.10 | 319.10 | 5,917.7 | 1,103.7 | -821.9 | 1,375.8 | 1.86 | 0.11 | |
| 6,196.0 | 14.80 | 319.20 | 6,006.6 | 1,121.6 | -837.4 | 1,399.5 | 0.33 | -0.33 | |
| 6,287.0 | 14.40 | 316.70 | 6,094.6 | 1,138.7 | -852.7 | 1,422.4 | 0.82 | -0.44 | |
| 6,379.0 | 14.70 | 316.60 | 6,183.7 | 1,155.5 | -868.6 | 1,445.4 | 0.33 | 0.33 | |
| 6,470.0 | 14.80 | 322.10 | 6,271.7 | 1,173.0 | -883.7 | 1,468.5 | 1.54 | 0.11 | |
| 6,562.0 | 15.30 | 323.10 | 6,360.5 | 1,192.0 | -898.2 | 1,492.4 | 0.61 | 0.54 | |
| 6,654.0 | 13.60 | 323.10 | 6,449.6 | 1,210.4 | -912.0 | 1,515.4 | 1.85 | -1.85 | |
| 6,745.0 | 15.20 | 324.30 | 6,537.7 | 1,228.6 | -925.3 | 1,538.0 | 1.79 | 1.76 | |
| 6,837.0 | 14.20 | 321.70 | 6,626.7 | 1,247.3 | -939.4 | 1,561.3 | 1.30 | -1.09 | |
| 6,928.0 | 13.90 | 320.40 | 6,715.0 | 1,264.5 | -953.3 | 1,583.4 | 0.48 | -0.33 | |
| 7,020.0 | 13.50 | 316.30 | 6,804.4 | 1,280.7 | -967.7 | 1,605.1 | 1.14 | -0.43 | |
| 7,111.0 | 14.70 | 321.60 | 6,892.7 | 1,297.5 | -982.2 | 1,627.2 | 1.94 | 1.32 | |
| 7,203.0 | 16.60 | 325.90 | 6,981.2 | 1,317.5 | -996.9 | 1,652.0 | 2.42 | 2.07 | |
| 7,294.0 | 16.00 | 326.20 | 7,068.6 | 1,338.7 | -1,011.1 | 1,677.5 | 0.67 | -0.66 | |
| 7,386.0 | 14.80 | 325.30 | 7,157.3 | 1,358.9 | -1,024.9 | 1,701.9 | 1.33 | -1.30 | |
| 7,478.0 | 14.50 | 326.20 | 7,246.3 | 1,378.1 | -1,038.0 | 1,725.1 | 0.41 | -0.33 | |
| 7,569.0 | 13.80 | 326.00 | 7,334.5 | 1,396.6 | -1,050.4 | 1,747.3 | 0.77 | -0.77 | |
| 7,660.0 | 13.20 | 324.40 | 7,423.0 | 1,414.0 | -1,062.5 | 1,768.5 | 0.78 | -0.66 | |
| 7,752.0 | 13.50 | 318.90 | 7,512.5 | 1,430.7 | -1,075.7 | 1,789.7 | 1.42 | 0.33 | |
| 7,844.0 | 12.70 | 317.80 | 7,602.1 | 1,446.2 | -1,089.5 | 1,810.5 | 0.91 | -0.87 | |
| 7,935.0 | 13.80 | 322.60 | 7,690.7 | 1,462.3 | -1,102.8 | 1,831.4 | 1.71 | 1.21 | |
| 8,027.0 | 14.70 | 322.00 | 7,779.9 | 1,480.2 | -1,116.7 | 1,854.0 | 0.99 | 0.98 | |
| 8,118.0 | 14.30 | 320.90 | 7,868.0 | 1,498.0 | -1,130.9 | 1,876.8 | 0.53 | -0.44 | |
| 8,210.0 | 13.30 | 320.40 | 7,957.3 | 1,515.0 | -1,144.8 | 1,898.7 | 1.09 | -1.09 | |
| 8,301.0 | 12.60 | 321.00 | 8,046.0 | 1,530.8 | -1,157.7 | 1,919.1 | 0.78 | -0.77 | |
| 8,393.0 | 10.90 | 320.10 | 8,136.1 | 1,545.2 | -1,169.6 | 1,937.8 | 1.86 | -1.85 | |
| 8,484.0 | 10.30 | 318.10 | 8,225.5 | 1,557.9 | -1,180.6 | 1,954.6 | 0.77 | -0.66 | |
| 8,576.0 | 9.60 | 315.40 | 8,316.1 | 1,569.5 | -1,191.4 | 1,970.4 | 0.91 | -0.76 | |
| 8,667.0 | 8.80 | 315.90 | 8,406.0 | 1,579.9 | -1,201.6 | 1,984.8 | 0.88 | -0.88 | |
| 8,759.0 | 9.40 | 317.10 | 8,496.8 | 1,590.4 | -1,211.6 | 1,999.3 | 0.68 | 0.65 | |
| 8,850.0 | 9.30 | 317.70 | 8,586.6 | 1,601.3 | -1,221.6 | 2,014.0 | 0.15 | -0.11 | |
| 8,941.0 | 6.40 | 319.30 | 8,676.7 | 1,610.6 | -1,229.9 | 2,026.4 | 3.20 | -3.19 | |
| 9,033.0 | 2.20 | 321.80 | 8,768.5 | 1,615.9 | -1,234.3 | 2,033.3 | 4.57 | -4.57 | |
| 9,125.0 | 1.80 | 307.20 | 8,860.4 | 1,618.1 | -1,236.6 | 2,036.5 | 0.70 | -0.43 | |
| 9,216.0 | 2.00 | 358.20 | 8,951.4 | 1,620.6 | -1,237.8 | 2,039.2 | 1.81 | 0.22 | |
| 9,308.0 | 1.70 | 82.30 | 9,043.3 | 1,622.4 | -1,236.4 | 2,039.8 | 2.70 | -0.33 | |
| 9,399.0 | 1.00 | 100.40 | 9,134.3 | 1,622.4 | -1,234.3 | 2,038.5 | 0.89 | -0.77 | |
| 9,491.0 | 0.70 | 197.50 | 9,226.3 | 1,621.7 | -1,233.7 | 2,037.6 | 1.40 | -0.33 | |
| 9,582.0 | 1.50 | 194.20 | 9,317.3 | 1,620.0 | -1,234.2 | 2,036.5 | 0.88 | 0.88 | |
| 9,674.0 | 1.20 | 207.60 | 9,409.3 | 1,618.0 | -1,234.9 | 2,035.4 | 0.47 | -0.33 | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well SGU 8504D-25 (was 3B) |
| Project: | Story Gulch | TVD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Site: | F25 496 | MD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Well: | SGU 8504D-25 (was 3B) | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|------------------------------------|
| 9,766.0 | 0.50 | 233.50 | 9,501.2 | 1,616.9 | -1,235.7 | 2,035.0 | 0.85 | -0.76 | |
| 9,857.0 | 0.60 | 7.00 | 9,592.2 | 1,617.2 | -1,235.9 | 2,035.3 | 1.11 | 0.11 | |
| 9,949.0 | 0.70 | 350.70 | 9,684.2 | 1,618.2 | -1,236.0 | 2,036.2 | 0.23 | 0.11 | |
| 10,041.0 | 0.70 | 299.20 | 9,776.2 | 1,619.0 | -1,236.6 | 2,037.2 | 0.66 | 0.00 | |
| 10,133.0 | 0.70 | 156.50 | 9,868.2 | 1,618.8 | -1,236.8 | 2,037.2 | 1.44 | 0.00 | |
| 10,225.0 | 1.30 | 115.20 | 9,960.2 | 1,617.8 | -1,235.7 | 2,035.7 | 0.98 | 0.65 | |
| 10,316.0 | 2.40 | 75.30 | 10,051.2 | 1,617.9 | -1,232.9 | 2,034.0 | 1.79 | 1.21 | |
| 10,408.0 | 2.50 | 90.20 | 10,143.1 | 1,618.4 | -1,229.0 | 2,032.0 | 0.70 | 0.11 | |
| 10,499.0 | 1.50 | 88.90 | 10,234.0 | 1,618.4 | -1,225.8 | 2,030.1 | 1.10 | -1.10 | |
| 10,591.0 | 0.50 | 28.70 | 10,326.0 | 1,618.7 | -1,224.4 | 2,029.5 | 1.44 | -1.09 | |
| 10,682.0 | 0.70 | 314.30 | 10,417.0 | 1,619.5 | -1,224.6 | 2,030.3 | 0.82 | 0.22 | |
| 10,774.0 | 0.90 | 262.00 | 10,509.0 | 1,619.8 | -1,225.8 | 2,031.2 | 0.79 | 0.22 | |
| 10,865.0 | 1.10 | 257.50 | 10,600.0 | 1,619.5 | -1,227.3 | 2,031.9 | 0.24 | 0.22 | |
| 10,957.0 | 1.40 | 243.70 | 10,692.0 | 1,618.8 | -1,229.2 | 2,032.5 | 0.46 | 0.33 | |
| 11,048.0 | 0.60 | 321.90 | 10,783.0 | 1,618.7 | -1,230.5 | 2,033.2 | 1.54 | -0.88 | |
| 11,140.0 | 0.50 | 357.30 | 10,875.0 | 1,619.5 | -1,230.8 | 2,034.0 | 0.38 | -0.11 | |
| 11,230.0 | 0.80 | 321.10 | 10,965.0 | 1,620.3 | -1,231.2 | 2,035.0 | 0.55 | 0.33 | |
| 11,323.0 | 0.40 | 305.00 | 11,057.9 | 1,621.0 | -1,231.9 | 2,035.9 | 0.46 | -0.43 | |
| 11,414.0 | 0.30 | 323.20 | 11,148.9 | 1,621.4 | -1,232.3 | 2,036.5 | 0.16 | -0.11 | |
| 11,506.0 | 0.40 | 269.40 | 11,240.9 | 1,621.6 | -1,232.8 | 2,036.9 | 0.36 | 0.11 | |
| 11,598.0 | 0.50 | 241.20 | 11,332.9 | 1,621.4 | -1,233.4 | 2,037.1 | 0.26 | 0.11 | |
| 11,689.0 | 0.90 | 250.40 | 11,423.9 | 1,621.0 | -1,234.4 | 2,037.4 | 0.46 | 0.44 | |
| 11,781.0 | 1.60 | 238.80 | 11,515.9 | 1,620.1 | -1,236.2 | 2,037.8 | 0.81 | 0.76 | |
| 11,872.0 | 2.10 | 241.40 | 11,606.9 | 1,618.6 | -1,238.8 | 2,038.2 | 0.56 | 0.55 | |
| 11,964.0 | 1.60 | 214.30 | 11,698.8 | 1,616.7 | -1,241.0 | 2,038.1 | 1.08 | -0.54 | |
| 12,055.0 | 2.20 | 208.30 | 11,789.8 | 1,614.1 | -1,242.5 | 2,037.0 | 0.69 | 0.66 | |
| 12,147.0 | 2.60 | 225.10 | 11,881.7 | 1,611.1 | -1,244.8 | 2,036.0 | 0.87 | 0.43 | |
| 12,330.0 | 3.50 | 223.70 | 12,064.4 | 1,604.2 | -1,251.6 | 2,034.7 | 0.49 | 0.49 | |
| 12,422.0 | 3.50 | 221.40 | 12,156.3 | 1,600.0 | -1,255.4 | 2,033.7 | 0.15 | 0.00 | |
| 12,460.8 | 3.32 | 223.12 | 12,195.0 | 1,598.3 | -1,257.0 | 2,033.3 | 0.53 | -0.46 | 12,195' TVD |
| 12,532.0 | 3.00 | 226.80 | 12,266.1 | 1,595.5 | -1,259.8 | 2,032.8 | 0.53 | -0.45 | Last Catyedral Survey @ 12,532' MD |
| 12,602.0 | 3.00 | 226.80 | 12,336.0 | 1,593.0 | -1,262.4 | 2,032.5 | 0.00 | 0.00 | Projection to Bit @ 12,602' |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well SGU 8504D-25 (was 3B) |
| Project: | Story Gulch | TVD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Site: | F25 496 | MD Reference: | KBE @ 8320.0ft (Patterson 306) |
| Well: | SGU 8504D-25 (was 3B) | 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) | | |
| F25 496 SGU 8504D-25 | 0.00 | 0.00 | 8,835.0 | 1,619.7 | -1,229.5 | 1,682,796.41 | 2,261,550.41 | 39° 40' 43.64 N | 108° 7' 26.22 W |
| - actual wellpath misses target center by 6.8ft at 9099.5ft MD (8834.9 TVD, 1617.6 N, -1235.9 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| F25 496 SGU 8504D-25 | 0.00 | 0.00 | 12,195.0 | 1,609.7 | -1,246.5 | 1,682,786.93 | 2,261,533.15 | 39° 40' 43.54 N | 108° 7' 26.44 W |
| - actual wellpath misses target center by 15.5ft at 12459.9ft MD (12194.1 TVD, 1598.3 N, -1256.9 E) | | | | | | | | | |
| - Rectangle (sides W30.0 H50.0 D0.0) | | | | | | | | | |

| Design Annotations | | | | |
|--------------------|----------------|-------------------|------------|------------------------------------|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment |
| (ft) | (ft) | +N/-S (ft) | +E/-W (ft) | |
| 2,970.0 | 2,887.6 | 474.6 | -337.8 | Last Cathedral svy @ 2970' MD |
| 12,460.8 | 12,195.0 | 1,598.3 | -1,257.0 | 12,195' TVD |
| 12,532.0 | 12,266.1 | 1,595.5 | -1,259.8 | Last Cathedral Survey @ 12,532' MD |
| 12,602.0 | 12,336.0 | 1,593.0 | -1,262.4 | Projection to Bit @ 12,602' |

Checked By: _____ Approved By: _____ Date: _____