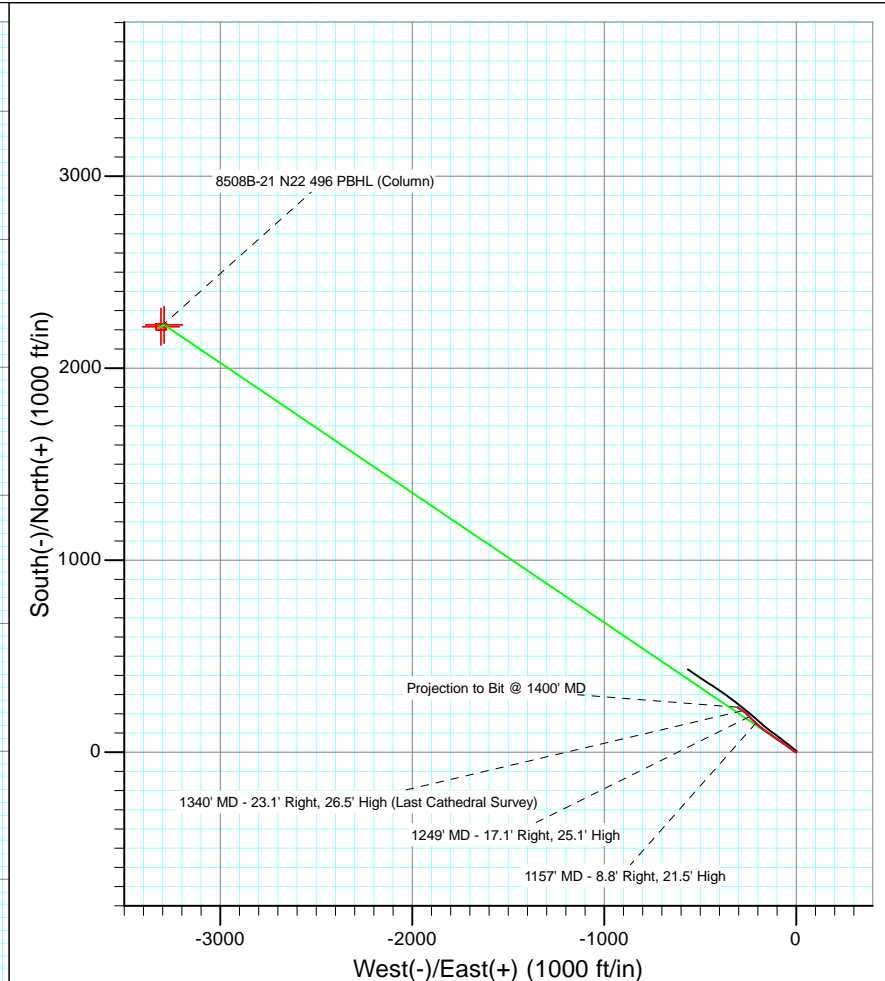
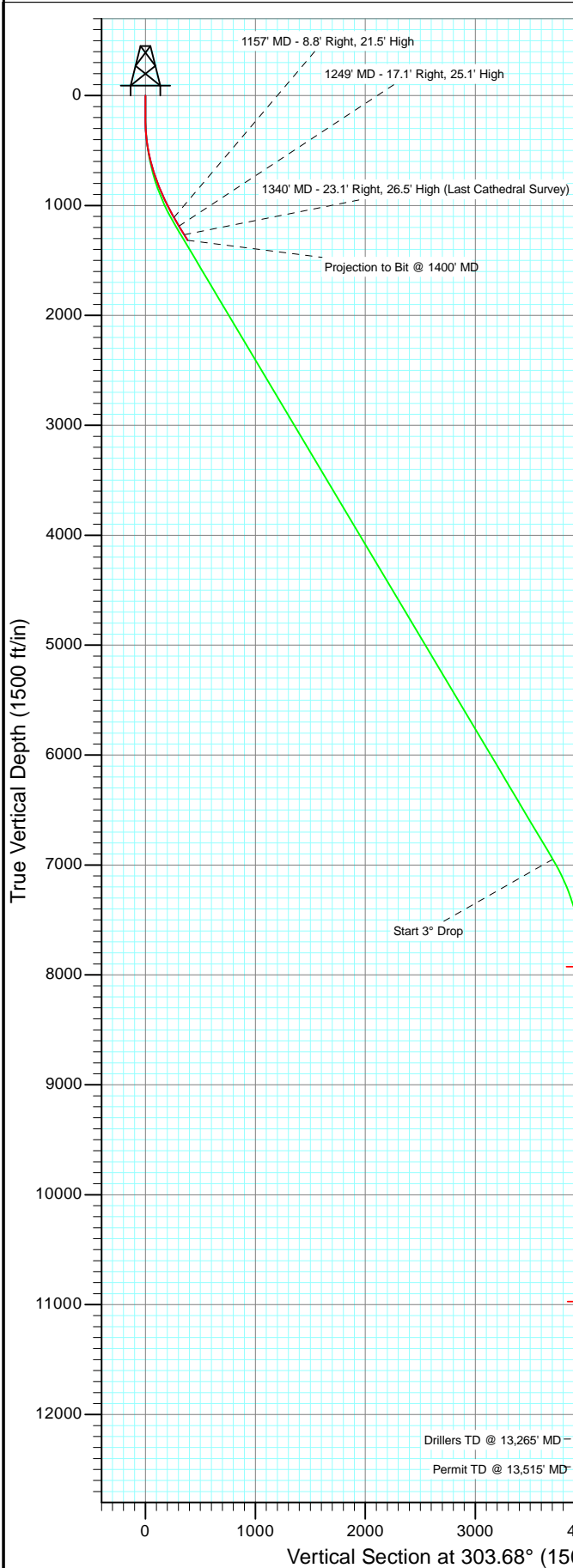




Project: Story Gulch
 Site: S22-T4S-R96W (N22 496) (Column Pattern)
 Well: 8508B-21 N22 496
 Wellbore: DD
 Design: DD



Azimuths to True North
 Magnetic North: 10.52°
 Magnetic Field
 Strength: 52372.3snT
 Dip Angle: 65.88°
 Date: 12/2/2010
 Model: IGRF2010

| | | | | | | |
|--|----------------------|---------|-----------|-----------------|-----|-----------------|
| DD 8508B-21 N22 496 115530/123555; SC | | | | | | |
| WELL @ 7602.0ft (Original Well Elev) North American Datum 1983 Well 8508B-21 N22 496, True North | | | | | | |
| Type | Target | Azimuth | Origin | N/S | E/W | From TVD |
| User | No Target (Freehand) | 303.68 | Type Slot | 0.0 | 0.0 | 0.0 |
| Name | TVD | +N/-S | +E/-W | Latitude | | Longitude |
| 8508B-21 N22 496 TGT (Column) | 7312.0 | 2226.2 | -3292.0 | 39° 41' 24.94 N | | 108° 10' 7.50 W |
| 8508B-21 N22 496 TGT (Column) (2) | 7925.3 | 2226.2 | -3292.0 | 39° 41' 24.94 N | | 108° 10' 7.50 W |
| 8508B-21 N22 496 PBHL (Column) | 10972.0 | 2216.2 | -3309.0 | 39° 41' 24.84 N | | 108° 10' 7.71 W |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|---|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well 8508B-21 N22 496 |
| Project: | Story Gulch | TVD Reference: | WELL @ 7602.0ft (Original Well Elev) |
| Site: | S22-T4S-R96W (N22 496) (Column Pattern) | MD Reference: | WELL @ 7602.0ft (Original Well Elev) |
| Well: | 8508B-21 N22 496 | 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 | | S22-T4S-R96W (N22 496) (Column Pattern) | | | |
|-----------------------|----------|---|-----------------|-------------------|-----------------|
| Site Position: | | Northing: | 1,685,048.56 ft | Latitude: | 39° 41' 3.24 N |
| From: | Lat/Long | Easting: | 2,252,316.79 ft | Longitude: | 108° 9' 25.11 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.68 ° |

| | | | | | | |
|----------------------|------------------|--------|---------------------|-----------------|---------------|-----------------|
| Well | 8508B-21 N22 496 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,685,019.14 ft | Latitude: | 39° 41' 2.94 N |
| | +E/-W | 0.0 ft | Easting: | 2,252,294.47 ft | Longitude: | 108° 9' 25.38 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 7,569.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 12/2/2010 | 10.52 | 65.88 | 52,372 |

| | | | | | |
|--------------------------|-------------------------|-------------------|-------------------|----------------------|-----|
| Design | DD | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 303.68 | |

| | | | | | |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 11/18/2011 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 209.0 | 1,400.0 | 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 | | |
| 209.0 | 0.40 | 244.60 | 209.0 | -0.3 | -0.7 | 0.4 | 0.19 | 0.19 | | |
| 239.0 | 0.40 | 247.80 | 239.0 | -0.4 | -0.9 | 0.5 | 0.07 | 0.00 | | |
| 331.0 | 4.00 | 302.80 | 330.9 | 1.2 | -3.8 | 3.9 | 4.11 | 3.91 | | |
| 422.0 | 7.80 | 308.30 | 421.4 | 6.8 | -11.4 | 13.2 | 4.22 | 4.18 | | |
| 516.0 | 11.30 | 302.70 | 514.1 | 15.7 | -24.1 | 28.8 | 3.85 | 3.72 | | |
| 608.0 | 14.40 | 309.20 | 603.8 | 27.8 | -40.6 | 49.2 | 3.71 | 3.37 | | |
| 699.0 | 17.30 | 303.50 | 691.3 | 42.4 | -60.6 | 74.0 | 3.61 | 3.19 | | |
| 882.0 | 23.20 | 305.30 | 862.9 | 78.3 | -112.8 | 137.3 | 3.24 | 3.22 | | |
| 974.0 | 25.40 | 304.90 | 946.8 | 100.1 | -143.8 | 175.1 | 2.40 | 2.39 | | |
| 1,157.0 | 29.70 | 311.50 | 1,109.0 | 152.6 | -210.0 | 259.3 | 2.88 | 2.35 | 1157' MD - 8.8' Right, 21.5' High | |
| 1,249.0 | 31.00 | 317.20 | 1,188.4 | 185.1 | -243.1 | 305.0 | 3.43 | 1.41 | 1249' MD - 17.1' Right, 25.1' High | |
| 1,340.0 | 32.50 | 305.10 | 1,265.9 | 216.4 | -279.1 | 352.2 | 7.18 | 1.65 | 1340' MD - 23.1' Right, 26.5' High | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|---|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well 8508B-21 N22 496 |
| Project: | Story Gulch | TVD Reference: | WELL @ 7602.0ft (Original Well Elev) |
| Site: | S22-T4S-R96W (N22 496) (Column Pattern) | MD Reference: | WELL @ 7602.0ft (Original Well Elev) |
| Well: | 8508B-21 N22 496 | 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 |
| 1,400.0 | 32.50 | 305.10 | 1,316.5 | 234.9 | -305.5 | 384.5 | 0.00 | 0.00 | Projection to Bit @ 1400' MD - 8508B-21 N22 496 |

| Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|-----------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| 8508B-21 N22 496 TGT | 0.00 | 0.00 | 7,925.3 | 2,226.2 | -3,292.0 | 1,687,340.66 | 2,249,068.98 | 39° 41' 24.94 N | 108° 10' 7.50 W |
| - survey misses target center by 7520.7ft at 1400.0ft MD (1316.5 TVD, 234.9 N, -305.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| 8508B-21 N22 496 PBH | 0.00 | 0.00 | 10,972.0 | 2,216.2 | -3,309.0 | 1,687,331.17 | 2,249,051.72 | 39° 41' 24.84 N | 108° 10' 7.71 W |
| - survey misses target center by 10304.1ft at 1400.0ft MD (1316.5 TVD, 234.9 N, -305.5 E) | | | | | | | | | |
| - Rectangle (sides W30.0 H50.0 D0.0) | | | | | | | | | |
| 8508B-21 N22 496 TGT | 0.00 | 0.00 | 7,312.0 | 2,226.2 | -3,292.0 | 1,687,340.66 | 2,249,068.98 | 39° 41' 24.94 N | 108° 10' 7.50 W |
| - survey misses target center by 6987.9ft at 1400.0ft MD (1316.5 TVD, 234.9 N, -305.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| Survey Annotations | | | | |
|---------------------|---------------------|-------------------|------------|------------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 1,157.0 | 1,109.0 | 152.6 | -210.0 | 1157' MD - 8.8' Right, 21.5' High |
| 1,249.0 | 1,188.4 | 185.1 | -243.1 | 1249' MD - 17.1' Right, 25.1' High |
| 1,340.0 | 1,265.9 | 216.4 | -279.1 | 1340' MD - 23.1' Right, 26.5' High |
| 1,400.0 | 1,316.5 | 234.9 | -305.5 | Projection to Bit @ 1400' MD |

Checked By: _____ Approved By: _____ Date: _____