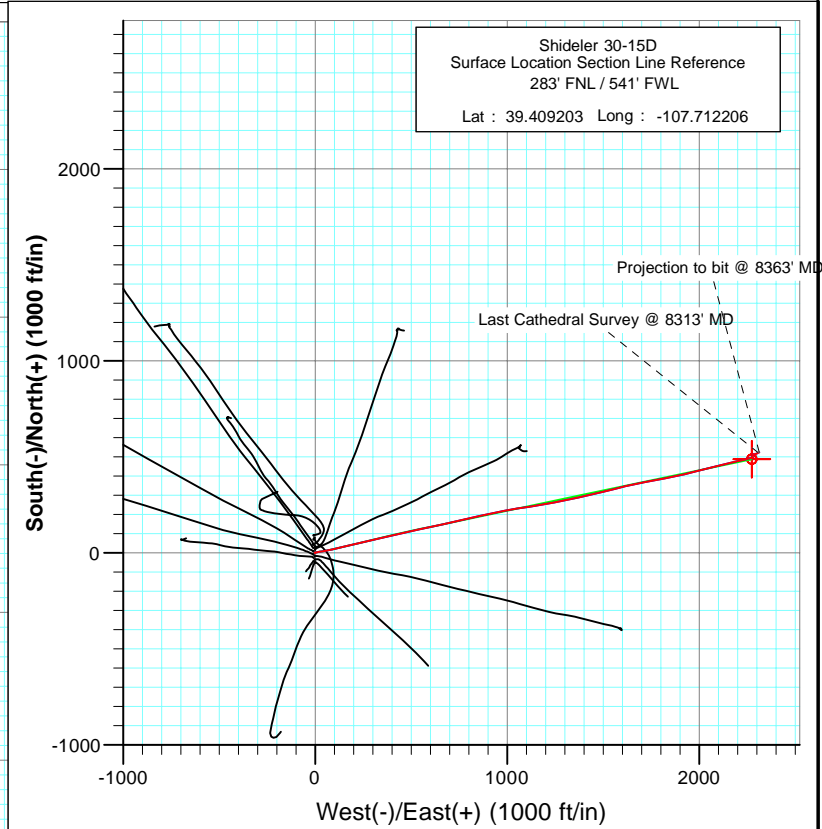
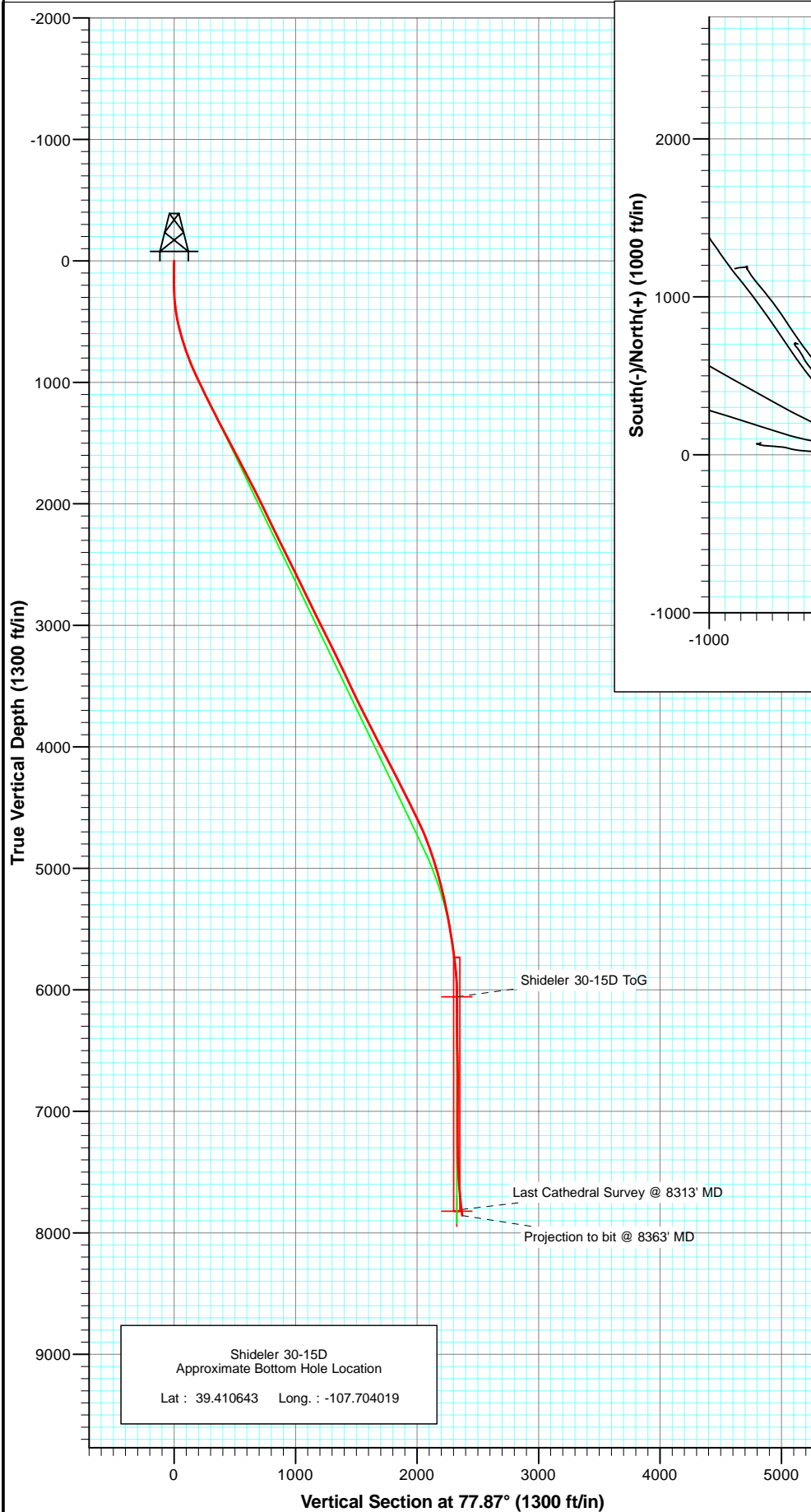




Project: Mamm Creek
Site: C31E Pad (NENW 31-7S-92W)
Well: Shideler 30-15D
Wellbore: Final
Plan: DD

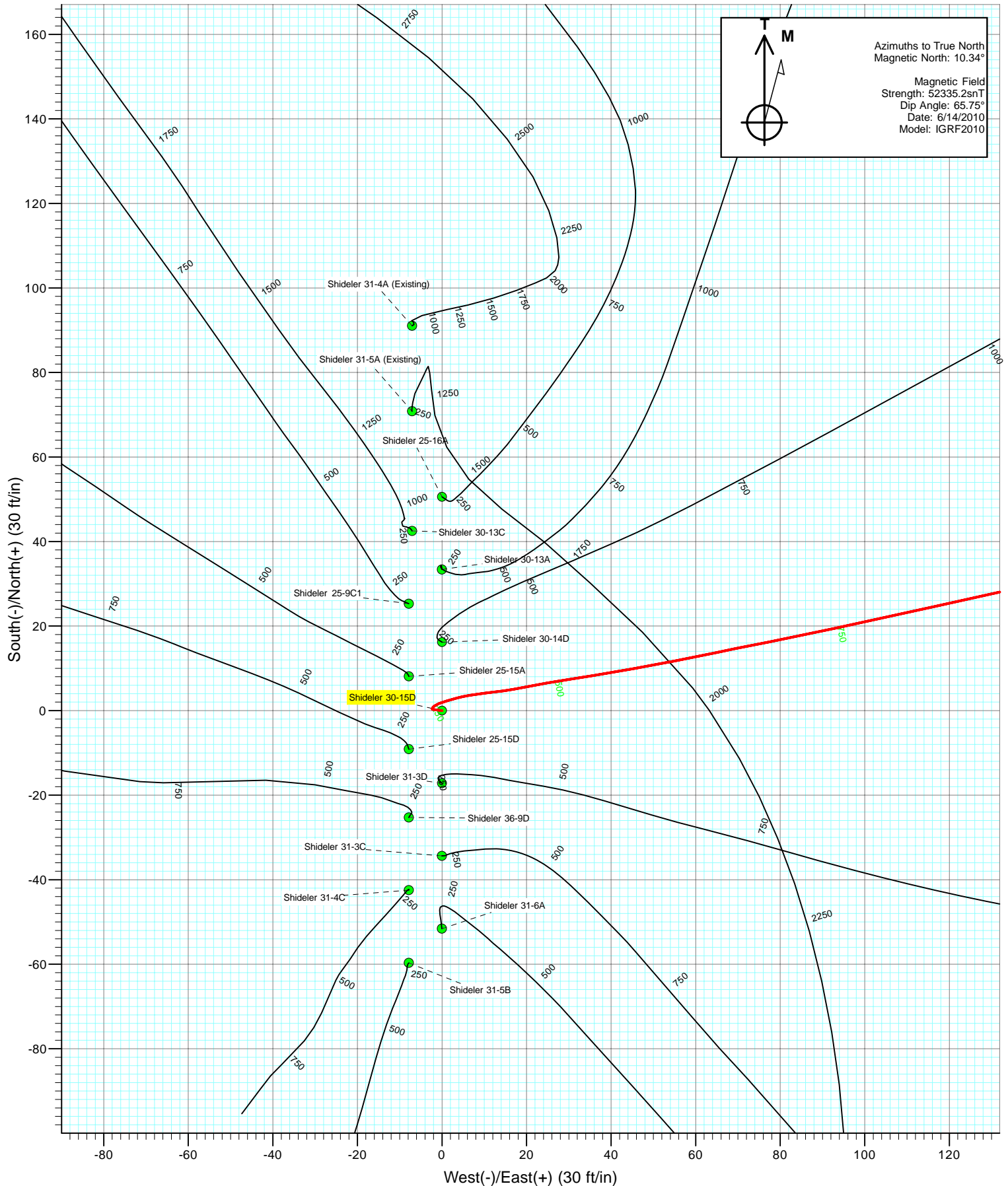


Azimuths to True North
Magnetic North: 10.34°
Magnetic Field
Strength: 52335.2nT
Dip Angle: 65.75°
Date: 6/14/2010
Model: IGRF2010

| DESIGN DETAILS: DD | | | | | |
|----------------------------------|---------|-------------|-----|-----|----------|
| Job# 105148 (SH) 105252 (MH): KR | | | | | |
| KBE @ 6772.0ft (Nabors M15) | | | | | |
| Target | Azimuth | Origin Type | N/S | E/W | From TVD |
| Shideler 30-15D BHL | 77.87 | Slot | 0.0 | 0.0 | 0.0 |

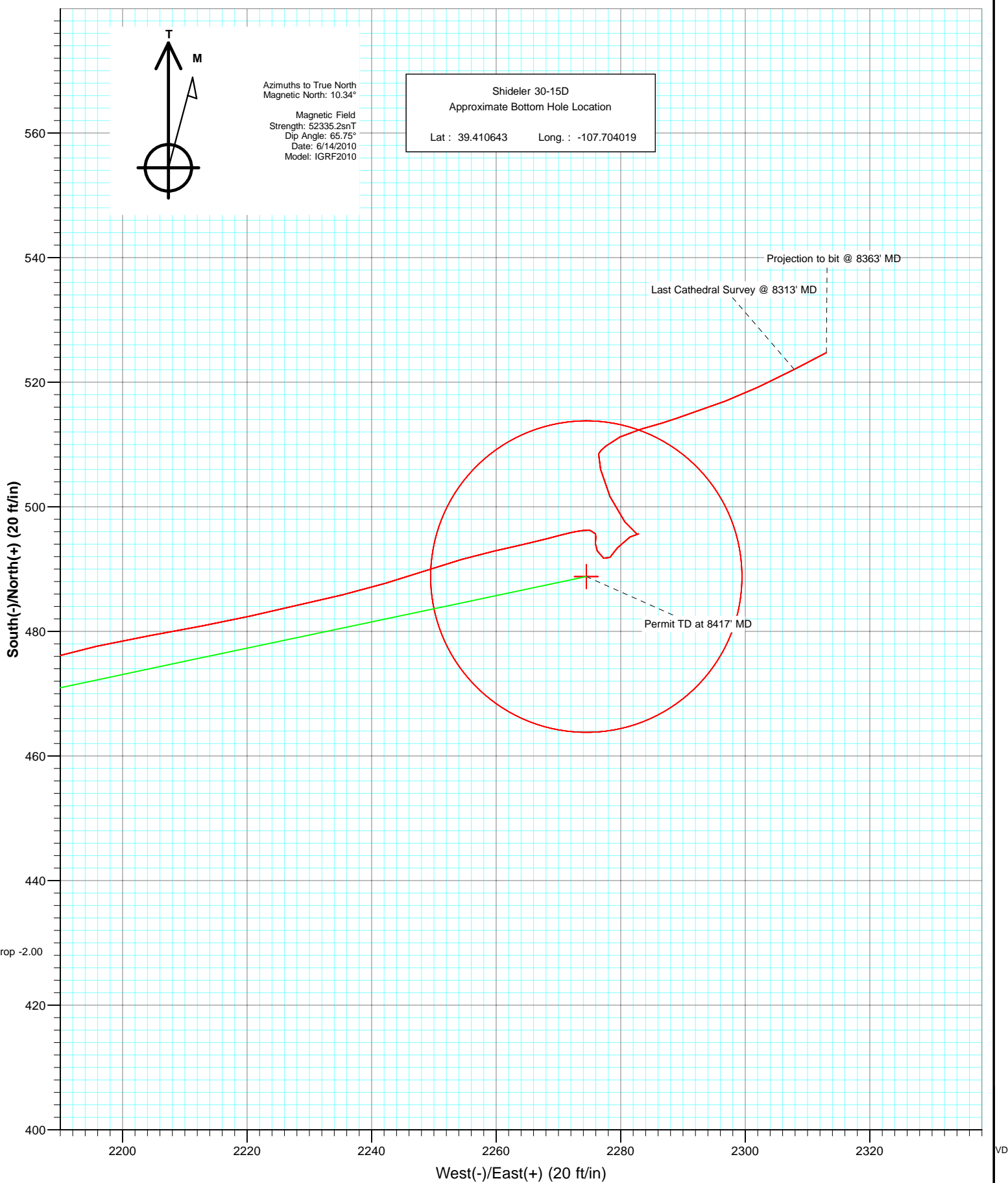


Project: Mamm Creek
Site: C31E Pad (NENW 31-7S-92W)
Well: Shideler 30-15D
Wellbore: Final
Design: DD





Project: Mamm Creek
Site: C31E Pad (NENW 31-7S-92W)
Well: Shideler 30-15D
Wellbore: Final
Plan: DD



Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Shideler 30-15D |
| Project: | Mamm Creek | TVD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Site: | C31E Pad (NENW 31-7S-92W) | MD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Well: | Shideler 30-15D | North Reference: | True |
| Wellbore: | Final | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | EDM 5000.1 US Multi Users Db |

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

| Site | | C31E Pad (NENW 31-7S-92W) | | | |
|-----------------------|----------|---------------------------|-----------------|-------------------|-------------|
| Site Position: | | Northing: | 1,581,611.55 ft | Latitude: | 39.409394 |
| From: | Lat/Long | Easting: | 2,375,162.79 ft | Longitude: | -107.711675 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.39 ° |

| | | | | | | |
|----------------------|-----------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Shideler 30-15D | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,581,545.38 ft | Latitude: | 39.409203 |
| | +E/-W | 0.0 ft | Easting: | 2,375,011.22 ft | Longitude: | -107.712206 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 6,750.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Final | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/14/2010 | 10.34 | 65.75 | 52,335 |

| | | | | | |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| 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 | 77.87 | |

| | | | | | |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 7/19/2010 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 111.0 | 8,363.0 | Survey #1 (Final) | 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 | | |
| 111.0 | 1.40 | 278.40 | 111.0 | 0.2 | -1.3 | -1.3 | 1.26 | 1.26 | | |
| 142.0 | 1.00 | 268.60 | 142.0 | 0.2 | -2.0 | -1.9 | 1.45 | -1.29 | | |
| 172.0 | 0.40 | 339.90 | 172.0 | 0.3 | -2.3 | -2.2 | 3.17 | -2.00 | | |
| 202.0 | 0.70 | 18.70 | 202.0 | 0.6 | -2.3 | -2.1 | 1.54 | 1.00 | | |
| 233.0 | 1.80 | 50.70 | 233.0 | 1.1 | -1.8 | -1.6 | 4.07 | 3.55 | | |
| 264.0 | 2.80 | 67.90 | 263.9 | 1.7 | -0.7 | -0.4 | 3.89 | 3.23 | | |
| 295.0 | 4.30 | 74.50 | 294.9 | 2.3 | 1.1 | 1.5 | 5.01 | 4.84 | | |
| 326.0 | 5.10 | 74.30 | 325.8 | 3.0 | 3.5 | 4.1 | 2.58 | 2.58 | | |
| 357.0 | 6.50 | 80.80 | 356.6 | 3.6 | 6.6 | 7.2 | 4.98 | 4.52 | | |
| 387.0 | 7.70 | 83.20 | 386.4 | 4.1 | 10.3 | 10.9 | 4.12 | 4.00 | | |
| 418.0 | 8.50 | 82.20 | 417.1 | 4.7 | 14.6 | 15.2 | 2.62 | 2.58 | | |
| 449.0 | 9.90 | 78.70 | 447.7 | 5.5 | 19.5 | 20.2 | 4.86 | 4.52 | | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Shideler 30-15D |
| Project: | Mamm Creek | TVD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Site: | C31E Pad (NENW 31-7S-92W) | MD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Well: | Shideler 30-15D | North Reference: | True |
| Wellbore: | Final | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | EDM 5000.1 US 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 480.0 | 10.80 | 80.10 | 478.2 | 6.5 | 24.9 | 25.8 | 3.01 | 2.90 | |
| 511.0 | 11.70 | 80.90 | 508.6 | 7.5 | 30.9 | 31.8 | 2.95 | 2.90 | |
| 542.0 | 13.20 | 81.00 | 538.9 | 8.6 | 37.5 | 38.5 | 4.84 | 4.84 | |
| 573.0 | 14.70 | 79.40 | 568.9 | 9.9 | 44.9 | 45.9 | 5.00 | 4.84 | |
| 603.0 | 15.20 | 79.70 | 597.9 | 11.3 | 52.5 | 53.7 | 1.69 | 1.67 | |
| 634.0 | 16.60 | 78.30 | 627.7 | 12.9 | 60.8 | 62.2 | 4.68 | 4.52 | |
| 665.0 | 17.10 | 78.20 | 657.4 | 14.7 | 69.6 | 71.2 | 1.62 | 1.61 | |
| 696.0 | 17.50 | 79.20 | 687.0 | 16.5 | 78.7 | 80.4 | 1.61 | 1.29 | |
| 727.0 | 18.50 | 77.90 | 716.5 | 18.4 | 88.0 | 89.9 | 3.48 | 3.23 | |
| 758.0 | 19.50 | 77.40 | 745.8 | 20.6 | 97.9 | 100.0 | 3.27 | 3.23 | |
| 789.0 | 20.20 | 77.90 | 775.0 | 22.8 | 108.2 | 110.6 | 2.32 | 2.26 | |
| 819.0 | 20.60 | 77.90 | 803.1 | 25.0 | 118.4 | 121.0 | 1.33 | 1.33 | |
| 850.0 | 21.90 | 77.30 | 832.0 | 27.5 | 129.4 | 132.3 | 4.25 | 4.19 | |
| 881.0 | 22.40 | 77.50 | 860.7 | 30.0 | 140.8 | 143.9 | 1.63 | 1.61 | |
| 912.0 | 23.70 | 76.00 | 889.2 | 32.8 | 152.6 | 156.1 | 4.60 | 4.19 | |
| 974.0 | 25.00 | 77.00 | 945.7 | 38.8 | 177.5 | 181.6 | 2.20 | 2.10 | |
| 1,066.0 | 25.70 | 75.90 | 1,028.8 | 48.0 | 215.7 | 221.0 | 0.92 | 0.76 | |
| 1,162.0 | 26.60 | 75.60 | 1,115.0 | 58.4 | 256.8 | 263.3 | 0.95 | 0.94 | |
| 1,260.0 | 26.60 | 78.50 | 1,202.6 | 68.2 | 299.5 | 307.2 | 1.32 | 0.00 | |
| 1,355.0 | 26.80 | 77.70 | 1,287.5 | 77.0 | 341.3 | 349.8 | 0.43 | 0.21 | |
| 1,450.0 | 27.40 | 77.10 | 1,372.1 | 86.5 | 383.5 | 393.1 | 0.69 | 0.63 | |
| 1,545.0 | 28.70 | 76.50 | 1,455.9 | 96.7 | 427.0 | 437.8 | 1.40 | 1.37 | |
| 1,640.0 | 27.50 | 77.10 | 1,539.7 | 106.9 | 470.6 | 482.5 | 1.30 | -1.26 | |
| 1,735.0 | 27.90 | 77.00 | 1,623.8 | 116.8 | 513.6 | 526.7 | 0.42 | 0.42 | |
| 1,830.0 | 27.00 | 78.50 | 1,708.1 | 126.1 | 556.4 | 570.5 | 1.19 | -0.95 | |
| 1,925.0 | 27.30 | 78.10 | 1,792.7 | 134.9 | 598.8 | 613.8 | 0.37 | 0.32 | |
| 2,021.0 | 27.40 | 77.40 | 1,877.9 | 144.3 | 641.9 | 657.9 | 0.35 | 0.10 | |
| 2,115.0 | 26.40 | 78.00 | 1,961.8 | 153.3 | 683.5 | 700.4 | 1.10 | -1.06 | |
| 2,211.0 | 26.00 | 77.70 | 2,047.9 | 162.2 | 724.9 | 742.8 | 0.44 | -0.42 | |
| 2,305.0 | 25.40 | 76.90 | 2,132.6 | 171.2 | 764.7 | 783.6 | 0.74 | -0.64 | |
| 2,400.0 | 25.40 | 76.30 | 2,218.4 | 180.6 | 804.3 | 824.3 | 0.27 | 0.00 | |
| 2,495.0 | 26.80 | 76.20 | 2,303.7 | 190.6 | 844.9 | 866.1 | 1.47 | 1.47 | |
| 2,590.0 | 26.60 | 79.60 | 2,388.6 | 199.5 | 886.6 | 908.8 | 1.62 | -0.21 | |
| 2,686.0 | 26.20 | 79.30 | 2,474.6 | 207.3 | 928.6 | 951.4 | 0.44 | -0.42 | |
| 2,780.0 | 26.10 | 78.50 | 2,559.0 | 215.3 | 969.3 | 992.9 | 0.39 | -0.11 | |
| 2,875.0 | 25.70 | 78.00 | 2,644.4 | 223.8 | 1,009.9 | 1,034.4 | 0.48 | -0.42 | |
| 2,971.0 | 26.70 | 81.30 | 2,730.6 | 231.3 | 1,051.6 | 1,076.7 | 1.84 | 1.04 | |
| 3,066.0 | 26.00 | 81.90 | 2,815.7 | 237.5 | 1,093.3 | 1,118.8 | 0.79 | -0.74 | |
| 3,161.0 | 25.60 | 81.10 | 2,901.2 | 243.6 | 1,134.2 | 1,160.0 | 0.56 | -0.42 | |
| 3,256.0 | 27.00 | 80.40 | 2,986.4 | 250.4 | 1,175.7 | 1,202.1 | 1.51 | 1.47 | |
| 3,351.0 | 26.80 | 79.70 | 3,071.1 | 257.8 | 1,218.0 | 1,245.0 | 0.39 | -0.21 | |
| 3,446.0 | 26.20 | 78.60 | 3,156.1 | 265.8 | 1,259.7 | 1,287.4 | 0.82 | -0.63 | |
| 3,541.0 | 25.90 | 78.30 | 3,241.5 | 274.1 | 1,300.5 | 1,329.1 | 0.34 | -0.32 | |
| 3,637.0 | 25.80 | 76.90 | 3,327.9 | 283.1 | 1,341.4 | 1,371.0 | 0.64 | -0.10 | |
| 3,732.0 | 25.50 | 78.40 | 3,413.5 | 291.9 | 1,381.6 | 1,412.1 | 0.75 | -0.32 | |
| 3,827.0 | 25.00 | 78.10 | 3,499.4 | 300.2 | 1,421.3 | 1,452.6 | 0.54 | -0.53 | |
| 3,922.0 | 26.50 | 76.00 | 3,585.0 | 309.4 | 1,461.5 | 1,493.9 | 1.85 | 1.58 | |
| 4,017.0 | 26.10 | 76.30 | 3,670.2 | 319.5 | 1,502.3 | 1,535.9 | 0.44 | -0.42 | |
| 4,112.0 | 26.00 | 77.00 | 3,755.5 | 329.2 | 1,542.9 | 1,577.7 | 0.34 | -0.11 | |
| 4,207.0 | 27.00 | 75.50 | 3,840.5 | 339.2 | 1,584.1 | 1,620.0 | 1.27 | 1.05 | |
| 4,302.0 | 27.20 | 76.90 | 3,925.1 | 349.6 | 1,626.1 | 1,663.3 | 0.70 | 0.21 | |
| 4,397.0 | 26.60 | 76.00 | 4,009.8 | 359.6 | 1,667.9 | 1,706.2 | 0.76 | -0.63 | |
| 4,492.0 | 27.80 | 80.20 | 4,094.3 | 368.5 | 1,710.4 | 1,749.6 | 2.38 | 1.26 | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Shideler 30-15D |
| Project: | Mamm Creek | TVD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Site: | C31E Pad (NENW 31-7S-92W) | MD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Well: | Shideler 30-15D | North Reference: | True |
| Wellbore: | Final | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | EDM 5000.1 US 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 4,587.0 | 27.70 | 81.40 | 4,178.4 | 375.6 | 1,754.1 | 1,793.8 | 0.60 | -0.11 | |
| 4,682.0 | 27.20 | 78.80 | 4,262.7 | 383.1 | 1,797.2 | 1,837.6 | 1.37 | -0.53 | |
| 4,777.0 | 27.10 | 78.00 | 4,347.2 | 391.9 | 1,839.7 | 1,880.9 | 0.40 | -0.11 | |
| 4,872.0 | 26.70 | 77.60 | 4,432.0 | 400.9 | 1,881.7 | 1,923.9 | 0.46 | -0.42 | |
| 4,967.0 | 26.20 | 76.50 | 4,517.0 | 410.4 | 1,922.9 | 1,966.2 | 0.74 | -0.53 | |
| 5,062.0 | 25.20 | 75.60 | 4,602.6 | 420.3 | 1,962.9 | 2,007.4 | 1.13 | -1.05 | |
| 5,157.0 | 23.20 | 76.70 | 4,689.3 | 429.7 | 2,000.7 | 2,046.3 | 2.16 | -2.11 | |
| 5,252.0 | 21.00 | 76.20 | 4,777.3 | 438.0 | 2,035.4 | 2,082.0 | 2.32 | -2.32 | |
| 5,347.0 | 19.00 | 75.30 | 4,866.5 | 446.0 | 2,066.9 | 2,114.5 | 2.13 | -2.11 | |
| 5,442.0 | 17.60 | 76.60 | 4,956.7 | 453.3 | 2,095.9 | 2,144.3 | 1.53 | -1.47 | |
| 5,536.0 | 16.10 | 76.10 | 5,046.7 | 459.7 | 2,122.3 | 2,171.5 | 1.60 | -1.60 | |
| 5,632.0 | 13.70 | 77.40 | 5,139.5 | 465.4 | 2,146.4 | 2,196.2 | 2.52 | -2.50 | |
| 5,727.0 | 12.90 | 76.00 | 5,231.9 | 470.4 | 2,167.6 | 2,218.1 | 0.91 | -0.84 | |
| 5,822.0 | 11.40 | 74.90 | 5,324.8 | 475.4 | 2,187.0 | 2,238.0 | 1.60 | -1.58 | |
| 5,916.0 | 10.50 | 79.90 | 5,417.1 | 479.3 | 2,204.4 | 2,255.9 | 1.39 | -0.96 | |
| 6,011.0 | 9.30 | 78.00 | 5,510.7 | 482.5 | 2,220.4 | 2,272.2 | 1.31 | -1.26 | |
| 6,106.0 | 9.10 | 76.10 | 5,604.4 | 485.9 | 2,235.2 | 2,287.4 | 0.38 | -0.21 | |
| 6,201.0 | 7.80 | 71.20 | 5,698.4 | 489.7 | 2,248.6 | 2,301.3 | 1.56 | -1.37 | |
| 6,296.0 | 6.30 | 77.60 | 5,792.7 | 492.9 | 2,259.8 | 2,312.9 | 1.78 | -1.58 | |
| 6,358.0 | 5.10 | 76.50 | 5,854.4 | 494.3 | 2,265.8 | 2,319.1 | 1.94 | -1.94 | |
| 6,422.0 | 3.80 | 74.60 | 5,918.2 | 495.5 | 2,270.6 | 2,324.0 | 2.04 | -2.03 | |
| 6,487.0 | 2.30 | 85.70 | 5,983.1 | 496.2 | 2,274.0 | 2,327.5 | 2.47 | -2.31 | |
| 6,519.0 | 1.40 | 89.00 | 6,015.1 | 496.3 | 2,275.0 | 2,328.5 | 2.83 | -2.81 | |
| 6,582.0 | 1.10 | 164.90 | 6,078.1 | 495.7 | 2,275.9 | 2,329.3 | 2.47 | -0.48 | |
| 6,614.0 | 1.10 | 185.10 | 6,110.1 | 495.1 | 2,276.0 | 2,329.2 | 1.21 | 0.00 | |
| 6,677.0 | 0.70 | 181.90 | 6,173.0 | 494.1 | 2,275.9 | 2,328.9 | 0.64 | -0.63 | |
| 6,772.0 | 0.80 | 152.00 | 6,268.0 | 492.9 | 2,276.2 | 2,329.0 | 0.42 | 0.11 | |
| 6,867.0 | 1.10 | 129.00 | 6,363.0 | 491.8 | 2,277.2 | 2,329.7 | 0.50 | 0.32 | |
| 6,962.0 | 0.90 | 23.90 | 6,458.0 | 491.9 | 2,278.3 | 2,330.8 | 1.68 | -0.21 | |
| 7,057.0 | 1.50 | 47.00 | 6,553.0 | 493.4 | 2,279.5 | 2,332.3 | 0.80 | 0.63 | |
| 7,153.0 | 1.70 | 50.40 | 6,649.0 | 495.2 | 2,281.5 | 2,334.6 | 0.23 | 0.21 | |
| 7,247.0 | 0.60 | 141.60 | 6,742.9 | 495.7 | 2,282.9 | 2,336.1 | 1.93 | -1.17 | |
| 7,342.0 | 0.80 | 300.10 | 6,837.9 | 495.6 | 2,282.6 | 2,335.8 | 1.45 | 0.21 | |
| 7,437.0 | 2.60 | 320.20 | 6,932.9 | 497.6 | 2,280.6 | 2,334.3 | 1.97 | 1.89 | |
| 7,532.0 | 3.10 | 337.40 | 7,027.8 | 501.6 | 2,278.3 | 2,332.8 | 1.04 | 0.53 | |
| 7,627.0 | 2.50 | 345.60 | 7,122.7 | 506.0 | 2,276.8 | 2,332.3 | 0.76 | -0.63 | |
| 7,722.0 | 0.60 | 21.00 | 7,217.6 | 508.5 | 2,276.4 | 2,332.5 | 2.15 | -2.00 | |
| 7,817.0 | 1.50 | 51.10 | 7,312.6 | 509.7 | 2,277.6 | 2,333.8 | 1.08 | 0.95 | |
| 7,912.0 | 1.80 | 61.80 | 7,407.6 | 511.2 | 2,279.9 | 2,336.4 | 0.45 | 0.32 | |
| 8,007.0 | 2.60 | 74.90 | 7,502.5 | 512.5 | 2,283.3 | 2,340.0 | 0.99 | 0.84 | |
| 8,102.0 | 4.60 | 72.30 | 7,597.3 | 514.2 | 2,289.0 | 2,345.9 | 2.11 | 2.11 | |
| 8,197.0 | 5.40 | 68.90 | 7,692.0 | 517.0 | 2,296.8 | 2,354.1 | 0.90 | 0.84 | |
| 8,313.0 | 6.70 | 62.40 | 7,807.3 | 522.1 | 2,307.9 | 2,366.0 | 1.27 | 1.12 | |
| 8,363.0 | 6.70 | 62.40 | 7,857.0 | 524.8 | 2,313.0 | 2,371.7 | 0.00 | 0.00 | |

Cathedral Energy Services

Survey Report

| | | | |
|------------------|----------------------------|-------------------------------------|------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Shideler 30-15D |
| Project: | Mamm Creek | TVD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Site: | C31E Pad (NENW 31-7S-92W) | MD Reference: | KBE @ 6772.0ft (Nabors M15) |
| Well: | Shideler 30-15D | North Reference: | True |
| Wellbore: | Final | Survey Calculation Method: | Minimum Curvature |
| Design: | DD | Database: | EDM 5000.1 US 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 | | | | | | | | | |
| Shideler 30-15D BHL | 0.00 | 0.00 | 7,822.0 | 488.8 | 2,274.5 | 1,581,978.66 | 2,377,296.93 | 39.410544 | -107.704156 |
| - survey misses target center by 49.4ft at 8313.0ft MD (7807.3 TVD, 522.1 N, 2307.9 E) | | | | | | | | | |
| - Circle (radius 25.0) | | | | | | | | | |
| Shideler 30-15D ToG | 0.00 | 0.00 | 6,057.0 | 488.8 | 2,274.5 | 1,581,978.66 | 2,377,296.93 | 39.410544 | -107.704156 |
| - survey misses target center by 7.3ft at 6561.0ft MD (6057.0 TVD, 496.0 N, 2275.8 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| Survey Annotations | | | | | |
|--------------------|----------------|-------------------|---------|----------------------------------|--|
| Measured Depth | Vertical Depth | Local Coordinates | | | |
| (ft) | (ft) | +N/-S | +E/-W | Comment | |
| (ft) | (ft) | (ft) | (ft) | | |
| 8,313.0 | 7,807.3 | 522.1 | 2,307.9 | Last Cathedral Survey @ 8313' MD | |
| 8,363.0 | 7,857.0 | 524.8 | 2,313.0 | Projection to bit @ 8363' MD | |

Checked By: _____ Approved By: _____ Date: _____