

Well Name: **Aristocrat Angus 6-2-8**

Surface Location: Aristocrat Angus 6-0-8 Pad Sec.8-T3N-R65W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

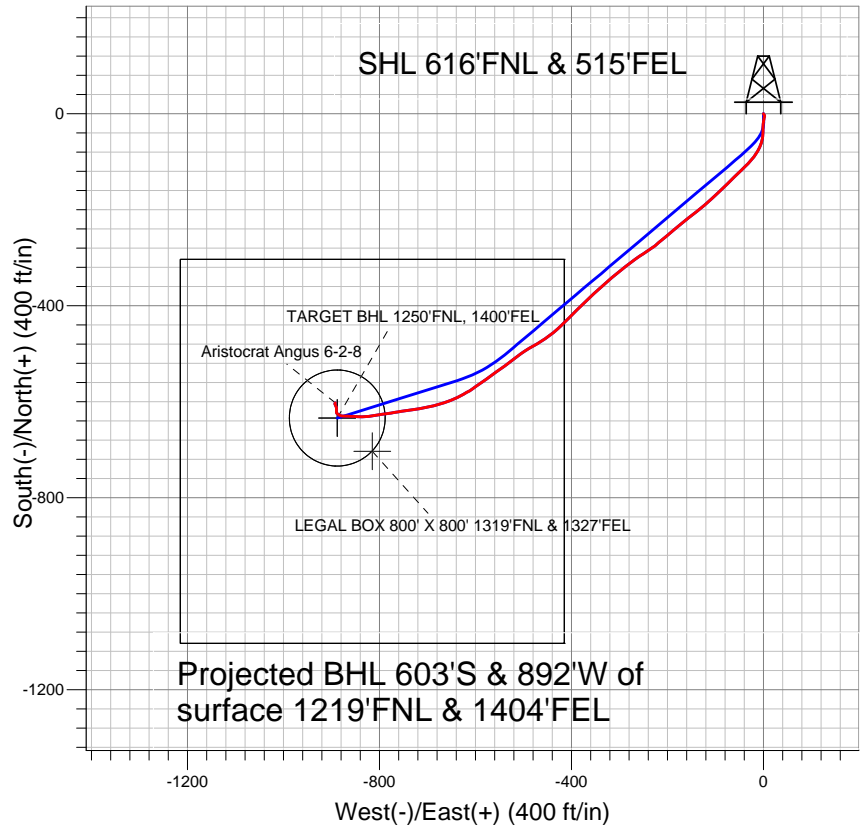
Ground Elevation: 4861.0

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|------------|------------|-----------|-------------|
| 0.0 | 0.0 | 1333315.04 | 3229021.51 | 40.245440 | -104.679550 |

Original Well Elev WELL @ 4873.0ft (Original Well Elev)

Slot

EnCana Oil & Gas Weld County CO



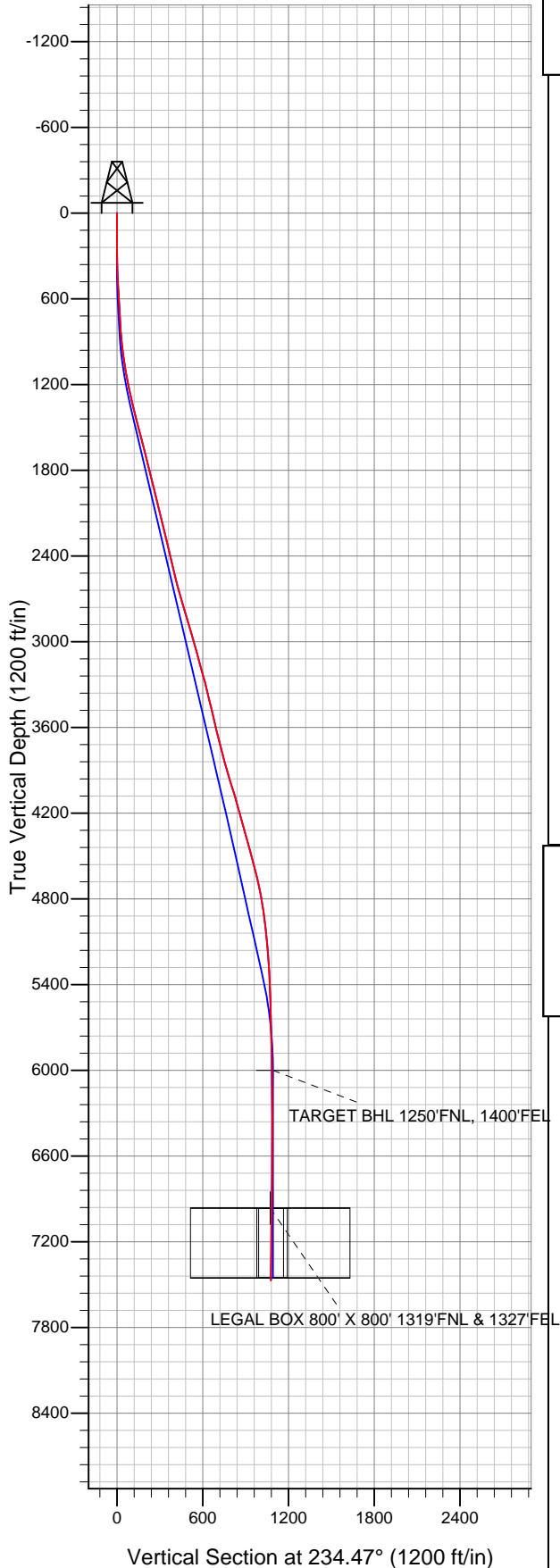
LEGEND

- ✕ Aristocrat Angus 6-2-8, Wellbore #1, Plan #2 (11-08-12) R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7606'MD & 7470'TVD @ 1076'VS
1.1 deg Inc 66.3 deg AZ

Project: SEC.8-T3N-R65W
Site: Aristocrat Angus 6-0-8 Pad Sec.8-T3N-R65W
Well: Aristocrat Angus 6-2-8
Plan: Wellbore #1





Directional

EnCana Oil & Gas Weld County CO

SEC.8-T3N-R65W

Aristocrat Angus 6-0-8 Pad Sec.8-T3N-R65W

Aristocrat Angus 6-2-8

Wellbore #1

Survey: Survey #1

Standard Survey Report

16 November, 2012

| | | | |
|------------------|---|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas Weld County CO | Local Co-ordinate Reference: | Well Aristocrat Angus 6-2-8 |
| Project: | SEC.8-T3N-R65W | TVD Reference: | WELL @ 4873.0ft (Original Well Elev) |
| Site: | Aristocrat Angus 6-0-8 Pad Sec.8-T3N-R65W | MD Reference: | WELL @ 4873.0ft (Original Well Elev) |
| Well: | Aristocrat Angus 6-2-8 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 992.0 | 9.00 | 201.30 | 988.7 | -64.8 | -5.7 | 42.3 | 2.58 | 1.63 | 13.95 |
| 1,077.0 | 10.10 | 210.10 | 1,072.6 | -77.5 | -11.9 | 54.7 | 2.15 | 1.29 | 10.35 |
| 1,163.0 | 11.10 | 216.40 | 1,157.1 | -90.7 | -20.6 | 69.4 | 1.78 | 1.16 | 7.33 |
| 1,248.0 | 12.00 | 224.70 | 1,240.4 | -103.5 | -31.6 | 85.9 | 2.22 | 1.06 | 9.76 |
| 1,334.0 | 13.80 | 227.10 | 1,324.2 | -116.9 | -45.4 | 104.9 | 2.18 | 2.09 | 2.79 |
| 1,420.0 | 14.40 | 224.70 | 1,407.6 | -131.5 | -60.5 | 125.6 | 0.97 | 0.70 | -2.79 |
| 1,505.0 | 14.80 | 225.20 | 1,489.9 | -146.6 | -75.6 | 146.7 | 0.49 | 0.47 | 0.59 |
| 1,591.0 | 14.90 | 226.10 | 1,573.0 | -162.0 | -91.4 | 168.5 | 0.29 | 0.12 | 1.05 |
| 1,676.0 | 14.20 | 227.80 | 1,655.3 | -176.6 | -107.0 | 189.7 | 0.96 | -0.82 | 2.00 |
| 1,762.0 | 14.10 | 229.90 | 1,738.7 | -190.5 | -122.8 | 210.6 | 0.61 | -0.12 | 2.44 |
| 1,848.0 | 14.20 | 232.00 | 1,822.1 | -203.7 | -139.1 | 231.6 | 0.61 | 0.12 | 2.44 |
| 1,933.0 | 13.70 | 231.50 | 1,904.5 | -216.4 | -155.2 | 252.1 | 0.61 | -0.59 | -0.59 |
| 2,019.0 | 13.60 | 230.30 | 1,988.1 | -229.2 | -171.0 | 272.3 | 0.35 | -0.12 | -1.40 |
| 2,104.0 | 13.80 | 230.60 | 2,070.7 | -242.0 | -186.5 | 292.4 | 0.25 | 0.24 | 0.35 |
| 2,190.0 | 14.20 | 229.40 | 2,154.1 | -255.4 | -202.4 | 313.1 | 0.57 | 0.47 | -1.40 |
| 2,276.0 | 13.60 | 229.90 | 2,237.6 | -268.7 | -218.2 | 333.7 | 0.71 | -0.70 | 0.58 |
| 2,361.0 | 13.30 | 235.60 | 2,320.3 | -280.7 | -233.9 | 353.5 | 1.60 | -0.35 | 6.71 |
| 2,447.0 | 12.70 | 237.10 | 2,404.1 | -291.4 | -250.0 | 372.8 | 0.80 | -0.70 | 1.74 |
| 2,532.0 | 13.80 | 235.20 | 2,486.8 | -302.3 | -266.2 | 392.3 | 1.39 | 1.29 | -2.24 |
| 2,618.0 | 14.20 | 231.70 | 2,570.3 | -314.7 | -282.9 | 413.1 | 1.09 | 0.47 | -4.07 |
| 2,704.0 | 15.20 | 230.60 | 2,653.5 | -328.4 | -299.8 | 434.8 | 1.21 | 1.16 | -1.28 |
| 2,789.0 | 16.50 | 229.40 | 2,735.2 | -343.3 | -317.6 | 458.0 | 1.58 | 1.53 | -1.41 |
| 2,875.0 | 17.10 | 228.70 | 2,817.6 | -359.6 | -336.4 | 482.7 | 0.74 | 0.70 | -0.81 |
| 2,960.0 | 16.80 | 227.10 | 2,898.9 | -376.2 | -354.8 | 507.3 | 0.65 | -0.35 | -1.88 |
| 3,046.0 | 16.50 | 225.70 | 2,981.3 | -393.2 | -372.6 | 531.7 | 0.58 | -0.35 | -1.63 |
| 3,132.0 | 14.80 | 224.80 | 3,064.1 | -409.5 | -389.1 | 554.6 | 2.00 | -1.98 | -1.05 |
| 3,217.0 | 16.00 | 225.50 | 3,146.0 | -425.4 | -405.1 | 576.9 | 1.43 | 1.41 | 0.82 |
| 3,303.0 | 15.70 | 225.90 | 3,228.7 | -441.8 | -421.9 | 600.1 | 0.37 | -0.35 | 0.47 |
| 3,388.0 | 14.00 | 230.50 | 3,310.9 | -456.4 | -438.1 | 621.8 | 2.43 | -2.00 | 5.41 |
| 3,474.0 | 13.40 | 236.30 | 3,394.5 | -468.5 | -454.4 | 642.1 | 1.74 | -0.70 | 6.74 |
| 3,560.0 | 12.90 | 240.10 | 3,478.2 | -478.9 | -471.1 | 661.6 | 1.16 | -0.58 | 4.42 |
| 3,645.0 | 13.70 | 239.10 | 3,560.9 | -488.8 | -487.9 | 681.1 | 0.98 | 0.94 | -1.18 |
| 3,731.0 | 13.70 | 234.50 | 3,644.5 | -499.9 | -504.9 | 701.4 | 1.27 | 0.00 | -5.35 |
| 3,816.0 | 14.20 | 231.90 | 3,727.0 | -512.2 | -521.3 | 721.9 | 0.94 | 0.59 | -3.06 |
| 3,902.0 | 14.50 | 234.90 | 3,810.3 | -524.9 | -538.5 | 743.2 | 0.93 | 0.35 | 3.49 |
| 3,988.0 | 16.60 | 234.50 | 3,893.1 | -538.2 | -557.3 | 766.3 | 2.45 | 2.44 | -0.47 |
| 4,073.0 | 17.80 | 233.60 | 3,974.3 | -553.0 | -577.6 | 791.4 | 1.45 | 1.41 | -1.06 |
| 4,159.0 | 17.10 | 235.00 | 4,056.4 | -568.0 | -598.5 | 817.2 | 0.95 | -0.81 | 1.63 |
| 4,244.0 | 15.00 | 239.80 | 4,138.1 | -580.7 | -618.3 | 840.6 | 2.92 | -2.47 | 5.65 |
| 4,330.0 | 15.40 | 244.30 | 4,221.1 | -591.3 | -638.2 | 863.0 | 1.45 | 0.47 | 5.23 |
| 4,416.0 | 17.10 | 250.50 | 4,303.6 | -600.4 | -660.4 | 886.4 | 2.82 | 1.98 | 7.21 |
| 4,501.0 | 15.80 | 255.60 | 4,385.2 | -607.5 | -683.4 | 909.2 | 2.28 | -1.53 | 6.00 |
| 4,587.0 | 16.10 | 259.60 | 4,467.8 | -612.6 | -706.5 | 930.9 | 1.32 | 0.35 | 4.65 |
| 4,672.0 | 17.00 | 261.70 | 4,549.3 | -616.5 | -730.4 | 952.6 | 1.27 | 1.06 | 2.47 |
| 4,758.0 | 15.70 | 261.70 | 4,631.8 | -620.0 | -754.3 | 974.1 | 1.51 | -1.51 | 0.00 |
| 4,844.0 | 13.40 | 260.00 | 4,715.1 | -623.4 | -775.6 | 993.5 | 2.72 | -2.67 | -1.98 |
| 4,929.0 | 11.00 | 260.90 | 4,798.2 | -626.4 | -793.4 | 1,009.6 | 2.83 | -2.82 | 1.06 |
| 5,015.0 | 9.70 | 264.00 | 4,882.8 | -628.4 | -808.7 | 1,023.3 | 1.64 | -1.51 | 3.60 |
| 5,100.0 | 7.80 | 260.00 | 4,966.8 | -630.2 | -821.5 | 1,034.7 | 2.35 | -2.24 | -4.71 |
| 5,186.0 | 7.00 | 270.50 | 5,052.0 | -631.1 | -832.5 | 1,044.2 | 1.82 | -0.93 | 12.21 |
| 5,272.0 | 6.10 | 270.90 | 5,137.5 | -631.0 | -842.3 | 1,052.2 | 1.05 | -1.05 | 0.47 |
| 5,357.0 | 4.90 | 272.60 | 5,222.1 | -630.8 | -850.4 | 1,058.6 | 1.42 | -1.41 | 2.00 |
| 5,443.0 | 4.10 | 271.60 | 5,307.8 | -630.5 | -857.1 | 1,064.0 | 0.93 | -0.93 | -1.16 |
| 5,528.0 | 3.20 | 273.30 | 5,392.7 | -630.3 | -862.6 | 1,068.3 | 1.07 | -1.06 | 2.00 |

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| Site: | Aristocrat Angus 6-0-8 Pad Sec.8-T3N-R65W | MD Reference: | WELL @ 4873.0ft (Original Well Elev) |
| Well: | Aristocrat Angus 6-2-8 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| Survey | | | | | | | | | | |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 5,614.0 | 2.60 | 274.80 | 5,478.5 | -630.0 | -866.9 | 1,071.6 | 0.70 | -0.70 | 1.74 | |
| 5,700.0 | 2.10 | 273.70 | 5,564.5 | -629.8 | -870.4 | 1,074.3 | 0.58 | -0.58 | -1.28 | |
| 5,871.0 | 1.70 | 267.70 | 5,735.4 | -629.7 | -876.1 | 1,078.9 | 0.26 | -0.23 | -3.51 | |
| 6,042.0 | 1.40 | 287.40 | 5,906.3 | -629.1 | -880.6 | 1,082.2 | 0.36 | -0.18 | 11.52 | |
| 6,135.8 | 1.22 | 296.14 | 6,000.0 | -628.3 | -882.6 | 1,083.4 | 0.29 | -0.19 | 9.32 | |
| TARGET BHL 1250'FNL, 1400'FEL | | | | | | | | | | |
| 6,213.0 | 1.10 | 305.30 | 6,077.3 | -627.6 | -883.9 | 1,084.0 | 0.29 | -0.16 | 11.86 | |
| 6,384.0 | 1.10 | 308.50 | 6,248.2 | -625.6 | -886.6 | 1,085.0 | 0.04 | 0.00 | 1.87 | |
| 6,556.0 | 0.60 | 308.70 | 6,420.2 | -624.0 | -888.6 | 1,085.7 | 0.29 | -0.29 | 0.12 | |
| 6,727.0 | 0.80 | 352.30 | 6,591.2 | -622.3 | -889.4 | 1,085.4 | 0.32 | 0.12 | 25.50 | |
| 6,898.0 | 1.10 | 358.60 | 6,762.2 | -619.4 | -889.6 | 1,083.9 | 0.19 | 0.18 | 3.68 | |
| 7,069.0 | 1.10 | 8.80 | 6,933.2 | -616.2 | -889.4 | 1,081.9 | 0.11 | 0.00 | 5.96 | |
| 7,097.3 | 1.20 | 3.78 | 6,961.4 | -615.6 | -889.3 | 1,081.5 | 0.50 | 0.36 | -17.77 | |
| LEGAL BOX 800' X 800' 1319'FNL & 1327'FEL | | | | | | | | | | |
| 7,098.4 | 1.21 | 3.59 | 6,962.5 | -615.6 | -889.3 | 1,081.5 | 0.50 | 0.37 | -16.20 | |
| TARGET CIRCLE 1250'FNL & 1400'FEL | | | | | | | | | | |
| 7,240.0 | 1.80 | 348.10 | 7,104.1 | -611.9 | -889.7 | 1,079.7 | 0.50 | 0.42 | -10.94 | |
| 7,412.0 | 2.10 | 328.00 | 7,276.0 | -606.6 | -891.9 | 1,078.4 | 0.43 | 0.17 | -11.69 | |
| 7,564.0 | 1.20 | 35.80 | 7,428.0 | -602.9 | -892.5 | 1,076.7 | 1.31 | -0.59 | 44.61 | |
| 7,606.0 | 1.10 | 66.30 | 7,469.9 | -602.4 | -891.8 | 1,075.9 | 1.46 | -0.24 | 72.62 | |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|