

# Noble Energy

Weld County, CO (NAD 83)

Sec. 6-T7N-R63W

Jones AC06-75HN

Sidetrack #1

Plan: Plan C - Rev 0 Proposal

## Sperry Drilling Services

### Proposal Report

06 July, 2012

Well Coordinates: 1,461,715.65 N, 3,283,748.70 E (40° 35' 46.75" N, 104° 28' 41.56" W)

Ground Level: 4,891.00 ft

Local Coordinate Origin:

Centered on Well Jones AC06-75HN

Viewing Datum:

KB @ 4915.00ft (H&P 322)

TVDs to System:

N

North Reference:

Grid

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 43I

**HALLIBURTON**

## Plan Report for Jones AC06-75HN - Plan C - Rev 0 Proposal

| 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) | Toolface Azimuth (°) |
|--|-----------------|-------------|---------------------|-----------|-----------|-----------------------|-----------------------|----------------------|---------------------|----------------------|
| 6,250.00   | 5.48            | 10.25       | 6,197.11            | -237.90   | -379.24   | -233.04               | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| <b>Tie-On to Original Wellbore MWD Survey / Begin Sidetrack #1</b> |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 6,296.95   | 10.00           | 20.00       | 6,243.62            | -231.86   | -377.45   | -227.03               | 10.00                 | 9.64                 | 20.78               | 21.07                |
| <b>Begin 41.65ft Tangent at 6296.95ft</b>                          |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 6,300.00   | 10.00           | 20.00       | 6,246.62            | -231.37   | -377.26   | -226.53               | 0.01                  | 0.01                 | 0.01                | 11.39                |
| 6,338.60   | 10.00           | 20.00       | 6,284.63            | -225.07   | -374.97   | -220.26               | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| <b>KOP - Begin 8.0°/100ft Build at 6338.60ft</b>                   |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 6,400.00   | 14.91           | 20.00       | 6,344.57            | -212.63   | -370.44   | -207.88               | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 6,500.00   | 22.91           | 20.00       | 6,439.10            | -182.19   | -359.37   | -177.59               | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 6,600.00   | 30.91           | 20.00       | 6,528.19            | -139.70   | -343.90   | -135.29               | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 6,700.00   | 38.91           | 20.00       | 6,610.13            | -85.96    | -324.34   | -81.81                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 6,800.00   | 46.91           | 20.00       | 6,683.31            | -22.03    | -301.07   | -18.19                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 6,900.00   | 54.91           | 20.00       | 6,746.31            | 50.85     | -274.55   | 54.35                 | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 6,901.20   | 55.01           | 20.00       | 6,747.00            | 51.77     | -274.21   | 55.26                 | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>Sharon Springs Mrkr</b>   |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 6,924.41   | 56.86           | 20.00       | 6,760.00            | 69.84     | -267.64   | 73.25                 | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>Niobrara</b>  |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 6,952.71   | 59.13           | 20.00       | 6,775.00            | 92.39     | -259.43   | 95.69                 | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>Niobrara A</b>  |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 6,985.13   | 61.72           | 20.00       | 6,791.00            | 118.88    | -249.78   | 122.06                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>Niobrara A Marl</b>   |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 7,000.00   | 62.91           | 20.00       | 6,797.91            | 131.25    | -245.28   | 134.37                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 7,100.00   | 70.91           | 20.00       | 6,837.09            | 217.63    | -213.84   | 220.34                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 7,166.97   | 76.27           | 20.00       | 6,856.00            | 277.97    | -191.88   | 280.40                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>Niobrara B</b>  |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 7,200.00   | 78.91           | 20.00       | 6,863.10            | 308.28    | -180.85   | 310.57                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 7,276.10   | 85.00           | 20.00       | 6,873.74            | 379.06    | -155.09   | 381.01                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>Begin 75.00ft Tangent at 7276.10ft - 7" Csg</b>                 |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 7,300.00   | 85.00           | 20.00       | 6,875.83            | 401.43    | -146.95   | 403.27                | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 7,351.10   | 85.00           | 20.00       | 6,880.28            | 449.26    | -129.53   | 450.88                | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| <b>Continue 8.0°/100ft Build at 7351.10ft</b>                      |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 7,400.00   | 88.91           | 20.00       | 6,882.88            | 495.14    | -112.84   | 496.54                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| 7,411.10   | 89.80           | 20.00       | 6,883.00            | 505.57    | -109.04   | 506.92                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>Nio B Target</b>  |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 7,413.60   | 90.00           | 20.00       | 6,883.00            | 507.92    | -108.19   | 509.26                | 8.00                  | 8.00                 | 0.00                | 0.00                 |
| <b>End of Build / Begin 3.0°/100ft Turn at 7413.60ft</b>           |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 7,500.00   | 90.00           | 17.41       | 6,883.00            | 589.75    | -80.48    | 590.73                | 3.00                  | 0.00                 | -3.00               | -90.00               |
| 7,600.00   | 90.00           | 14.41       | 6,883.00            | 685.91    | -53.07    | 686.53                | 3.00                  | 0.00                 | -3.00               | -90.00               |
| 7,700.00   | 90.00           | 11.41       | 6,883.00            | 783.37    | -30.74    | 783.70                | 3.00                  | 0.00                 | -3.00               | -90.00               |
| 7,800.00   | 90.00           | 8.41        | 6,883.00            | 881.87    | -13.53    | 881.97                | 3.00                  | 0.00                 | -3.00               | -90.00               |
| 7,900.00   | 90.00           | 5.41        | 6,883.00            | 981.13    | -1.51     | 981.07                | 3.00                  | 0.00                 | -3.00               | -90.00               |
| 8,000.00   | 90.00           | 2.41        | 6,883.00            | 1,080.89  | 5.31      | 1,080.73              | 3.00                  | 0.00                 | -3.00               | -90.00               |
| 8,100.00   | 90.00           | 359.41      | 6,883.00            | 1,180.86  | 6.89      | 1,180.68              | 3.00                  | 0.00                 | -3.00               | -90.00               |
| 8,117.48   | 90.00           | 358.88      | 6,883.00            | 1,198.34  | 6.63      | 1,198.16              | 3.00                  | 0.00                 | -3.00               | -90.00               |
| <b>End of Turn at 8117.48ft</b>                                    |                 |             |                     |           |           |                       |                       |                      |                     |                      |
| 8,200.00   | 90.00           | 358.88      | 6,883.00            | 1,280.85  | 5.02      | 1,280.68              | 0.00                  | 0.00                 | 0.00                | -90.00               |
| 8,300.00   | 90.00           | 358.88      | 6,883.00            | 1,380.83  | 3.08      | 1,380.68              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 8,400.00   | 90.00           | 358.88      | 6,883.00            | 1,480.81  | 1.13      | 1,480.67              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 8,500.00   | 90.00           | 358.88      | 6,883.00            | 1,580.79  | -0.82     | 1,580.67              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 8,600.00   | 90.00           | 358.88      | 6,883.00            | 1,680.77  | -2.77     | 1,680.67              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 8,700.00   | 90.00           | 358.88      | 6,883.00            | 1,780.75  | -4.72     | 1,780.67              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 8,800.00   | 90.00           | 358.88      | 6,883.00            | 1,880.73  | -6.67     | 1,880.66              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 8,900.00   | 90.00           | 358.88      | 6,883.00            | 1,980.71  | -8.61     | 1,980.66              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,000.00   | 90.00           | 358.88      | 6,883.00            | 2,080.69  | -10.56    | 2,080.66              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,100.00   | 90.00           | 358.88      | 6,883.00            | 2,180.68  | -12.51    | 2,180.66              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,200.00   | 90.00           | 358.88      | 6,883.00            | 2,280.66  | -14.46    | 2,280.66              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,300.00   | 90.00           | 358.88      | 6,883.00            | 2,380.64  | -16.41    | 2,380.65              | 0.00                  | 0.00                 | 0.00                | 0.00                 |

## Plan Report for Jones AC06-75HN - Plan C - Rev 0 Proposal

| 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) | Toolface Azimuth (°) |
|-----------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|----------------------|
| 9,400.00                    | 90.00           | 358.88      | 6,883.00            | 2,480.62   | -18.36     | 2,480.65              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,500.00                    | 90.00           | 358.88      | 6,883.00            | 2,580.60   | -20.30     | 2,580.65              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,600.00                    | 90.00           | 358.88      | 6,883.00            | 2,680.58   | -22.25     | 2,680.65              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,700.00                    | 90.00           | 358.88      | 6,883.00            | 2,780.56   | -24.20     | 2,780.64              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| <b>Hold Angle at 90.00°</b> |                 |             |                     |            |            |                       |                       |                      |                     |                      |
| 9,800.00                    | 90.00           | 358.88      | 6,883.00            | 2,880.54   | -26.15     | 2,880.64              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 9,900.00                    | 90.00           | 358.88      | 6,883.00            | 2,980.52   | -28.10     | 2,980.64              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,000.00                   | 90.00           | 358.88      | 6,883.00            | 3,080.50   | -30.05     | 3,080.64              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,100.00                   | 90.00           | 358.88      | 6,883.00            | 3,180.49   | -31.99     | 3,180.64              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,200.00                   | 90.00           | 358.88      | 6,883.00            | 3,280.47   | -33.94     | 3,280.63              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,300.00                   | 90.00           | 358.88      | 6,883.00            | 3,380.45   | -35.89     | 3,380.63              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,400.00                   | 90.00           | 358.88      | 6,883.00            | 3,480.43   | -37.84     | 3,480.63              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,500.00                   | 90.00           | 358.88      | 6,883.00            | 3,580.41   | -39.79     | 3,580.63              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,600.00                   | 90.00           | 358.88      | 6,883.00            | 3,680.39   | -41.74     | 3,680.62              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,700.00                   | 90.00           | 358.88      | 6,883.00            | 3,780.37   | -43.68     | 3,780.62              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,800.00                   | 90.00           | 358.88      | 6,883.00            | 3,880.35   | -45.63     | 3,880.62              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 10,900.00                   | 90.00           | 358.88      | 6,883.00            | 3,980.33   | -47.58     | 3,980.62              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 11,000.00                   | 90.00           | 358.88      | 6,883.00            | 4,080.32   | -49.53     | 4,080.61              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 11,100.00                   | 90.00           | 358.88      | 6,883.00            | 4,180.30   | -51.48     | 4,180.61              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 11,200.00                   | 90.00           | 358.88      | 6,883.00            | 4,280.28   | -53.42     | 4,280.61              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 11,300.00                   | 90.00           | 358.88      | 6,883.00            | 4,380.26   | -55.37     | 4,380.61              | 0.00                  | 0.00                 | 0.00                | 0.00                 |
| 11,382.38                   | 90.00           | 358.88      | 6,883.00            | 4,462.62   | -56.98     | 4,462.98              | 0.00                  | 0.00                 | 0.00                | 0.00                 |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment   |
|---------------------|---------------------|-------------------|------------|---|
|                     |                     | +N/-S (ft)        | +E/-W (ft) |   |
| 6,250.00            | 6,197.11            | -237.90           | -379.24    | Tie-On to Original Wellbore MWD Survey / Begin Sidetrack #1 |
| 6,296.95            | 6,243.62            | -231.86           | -377.45    | Begin 41.65ft Tangent at 6296.95ft                          |
| 6,338.60            | 6,284.63            | -225.07           | -374.97    | KOP - Begin 8.0°/100ft Build at 6338.60ft                   |
| 7,276.10            | 6,873.74            | 379.06            | -155.09    | Begin 75.00ft Tangent at 7276.10ft                          |
| 7,351.10            | 6,880.28            | 449.26            | -129.53    | Continue 8.0°/100ft Build at 7351.10ft                      |
| 7,413.60            | 6,883.00            | 507.92            | -108.19    | End of Build / Begin 3.0°/100ft Turn at 7413.60ft           |
| 8,117.48            | 6,883.00            | 1,198.34          | 6.63       | End of Turn at 8117.48ft                                    |
| 9,700.00            | 6,883.00            | 2,780.56          | -24.20     | Hold Angle at 90.00°  |
| 11,382.38           | 6,883.00            | 4,462.62          | -56.98     | Total Depth at 11382.38ft                                   |

Vertical Section Information

| Angle Type | Target                               | Azimuth (°) | Origin Type | Origin     |            | Start TVD (ft) |
|------------|--------------------------------------|-------------|-------------|------------|------------|----------------|
|            |                                      |             |             | +N/-S (ft) | +E/-W (ft) |                |
| Target     | Jones AC06-75HN_PlanC - Rev0_BHL Tgt | 359.27      | Slot        | 0.00       | 0.00       | 0.00           |

Survey tool program

| From (ft) | To (ft)   | Survey/Plan                             | Survey Tool |
|-----------|-----------|---|-------------|
| 840.00    | 6,250.00  | Original Wellbore MWD Surveys (From DD) | MWD         |
| 6,250.00  | 11,382.38 | Plan C - Rev 0 Proposal                 | MWD         |

## Plan Report for Jones AC06-75HN - Plan C - Rev 0 Proposal

### Casing Details

| Measured Depth (ft) | Vertical Depth (ft) | Name   | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 7,276.10            | 6,873.74            | 7" Csg | 7                   | 8-3/4             |

### Formation Details

| Measured Depth (ft) | Vertical Depth (ft) | Name                | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|---------------------|-----------|---------|-------------------|
| 6,901.20            | 6,747.00            | Sharon Springs Mrkr |           | 0.00    | 359.40            |
| 6,924.41            | 6,760.00            | Niobrara            |           | 0.00    | 359.40            |
| 6,952.71            | 6,775.00            | Niobrara A          |           | 0.00    | 359.40            |
| 6,985.13            | 6,791.00            | Niobrara A Marl     |           | 0.00    | 359.40            |
| 7,166.97            | 6,856.00            | Niobrara B          |           | 0.00    | 359.40            |
| 7,411.10            | 6,883.00            | Nio B Target        |           | 0.00    |                   |

### Targets associated with this wellbore

| Target Name                            | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Shape   |
|--|----------|------------|------------|---------|
| Jones AC06-75HN_PlanC - Rev0_BHL Tgt   | 6,883.00 | 4,462.62   | -56.98     | Point   |
| Jones AC06-75HN_Sec. 6 460' Setbacks   | 0.00     | 0.00       | 0.00       | Polygon |
| Jones AC06-75-1HN_PlanB - Rev0_BHL Tgt | 6,883.00 | 4,462.62   | -56.98     | Point   |
| Jones AC06-75HN_Sec. 6 Lines           | 0.00     | 0.00       | 0.00       | Polygon |

**North Reference Sheet for Sec. 6-T7N-R63W - Jones AC06-75HN - Sidetrack #1**

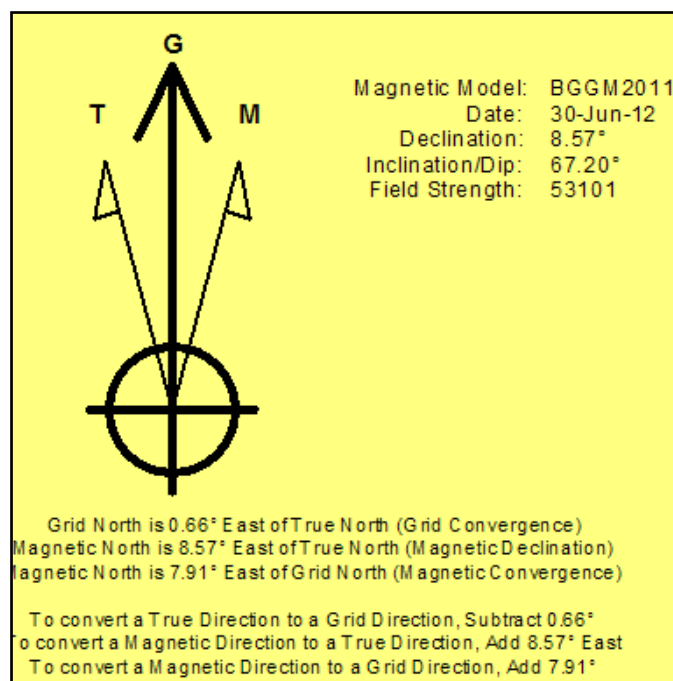
All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.  
Vertical Depths are relative to KB @ 4915.00ft (H&P 322). Northing and Easting are relative to Jones AC06-75HN  
Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)  
Central Meridian is -105.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 47' 0.000 N°  
False Easting: 3,000,000.00ft, False Northing: 1,000,000.00ft, Scale Reduction: 0.99997500

Grid Coordinates of Well: 1,461,715.65 ft N, 3,283,748.70 ft E  
Geographical Coordinates of Well: 40° 35' 46.75" N, 104° 28' 41.56" W  
Grid Convergence at Surface is: 0.66°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,382.38ft  
the Bottom Hole Displacement is 4,462.98ft in the Direction of 359.27° (Grid).

Magnetic Convergence at surface is: -7.91° (30 June 2012, , BGGM2011)



Project: Weld County, CO (NAD 83)  
 Site: Sec. 6-T7N-R63W  
 Well: Jones AC06-75HN  
 Wellbore: Sidetrack #1  
 Design: Plan C - Rev 0 Proposal

# Noble Energy

**HALLIBURTON**  
 Sperry Drilling

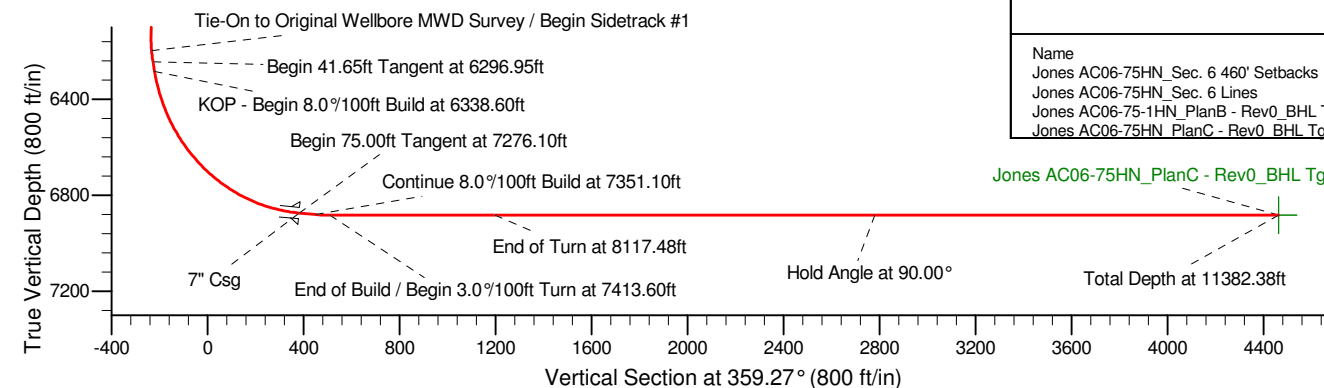
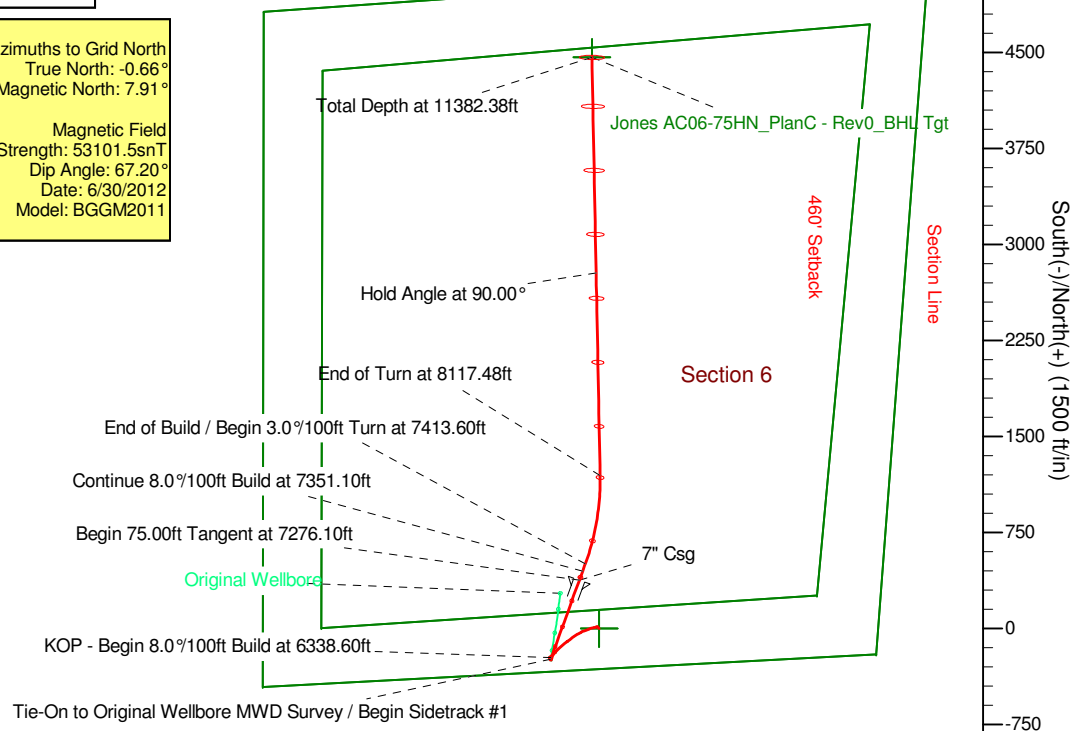
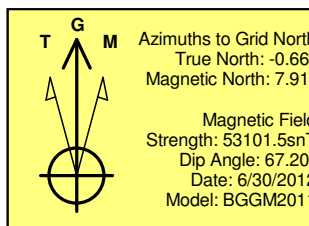
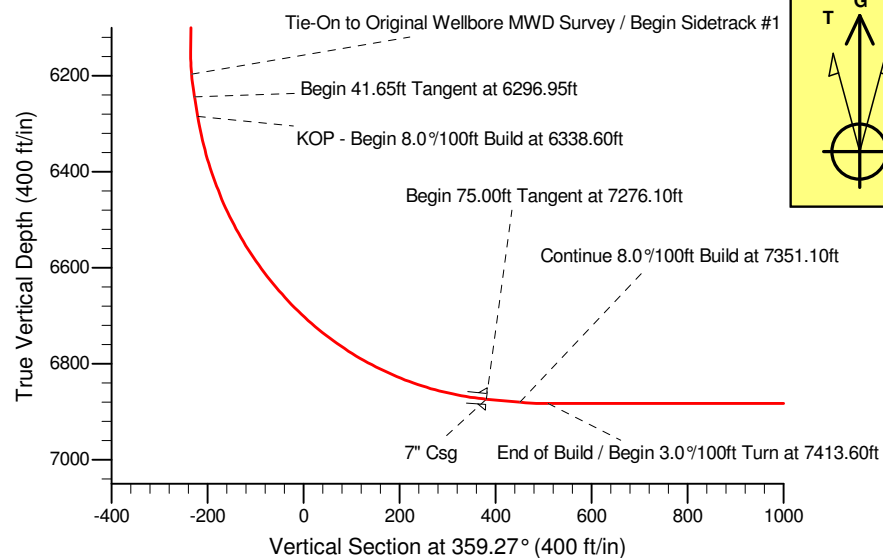
## SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | DLeg  | TFace  | VSec    | Target                               |
|-----|----------|-------|--------|---------|---------|---------|-------|--------|---------|--------------------------------------|
| 1   | 6250.00  | 5.48  | 10.25  | 6197.11 | -237.90 | -379.24 | 0.00  | 0.00   | -233.04 |                                      |
| 2   | 6296.95  | 10.00 | 20.00  | 6243.62 | -231.86 | -377.45 | 10.00 | 21.07  | -227.03 |                                      |
| 3   | 6338.60  | 10.00 | 20.00  | 6284.64 | -225.07 | -374.97 | 0.00  | 0.00   | -220.26 |                                      |
| 4   | 7276.10  | 85.00 | 20.00  | 6873.74 | 379.06  | -155.09 | 8.00  | 0.00   | 381.01  |                                      |
| 5   | 7351.10  | 85.00 | 20.00  | 6880.28 | 449.27  | -129.53 | 0.00  | 0.00   | 450.88  |                                      |
| 6   | 7413.60  | 90.00 | 20.00  | 6883.00 | 507.92  | -108.18 | 8.00  | 0.00   | 509.26  |                                      |
| 7   | 8117.48  | 90.00 | 358.88 | 6883.00 | 1198.34 | 6.63    | 3.00  | -90.00 | 1198.16 |                                      |
| 8   | 11382.38 | 90.00 | 358.88 | 6883.00 | 4462.62 | -56.98  | 0.00  | 0.00   | 4462.98 | Jones AC06-75HN_PlanC - Rev0_BHL Tgt |

West(-)/East(+) (1500 ft/in)

BHL: 535' FNL, 2520' FEL

Surface: 316' FSL, 2171' FEL  
 Casing Pt: 703' FSL, 2357' FEL



## WELLBORE TARGET DETAILS (LAT/LONG)

| Name                                   | TVD     | +N/-S   | +E/-W  | Latitude         | Longitude         | Shape   |
|--|---------|---------|--------|------------------|-------------------|---------|
| Jones AC06-75HN_Sec. 6 460' Setbacks   | 0.00    | 0.00    | 0.00   | 40° 35' 46.752 N | 104° 28' 41.556 W | Polygon |
| Jones AC06-75HN_Sec. 6 Lines           | 0.00    | 0.00    | 0.00   | 40° 35' 46.752 N | 104° 28' 41.556 W | Polygon |
| Jones AC06-75-1HN_PlanB - Rev0_BHL Tgt | 6883.00 | 4462.62 | -56.98 | 40° 36' 30.852 N | 104° 28' 41.628 W | Point   |
| Jones AC06-75HN_PlanC - Rev0_BHL Tgt   | 6883.00 | 4462.62 | -56.98 | 40° 36' 30.852 N | 104° 28' 41.628 W | Point   |

## WELL DETAILS: Jones AC06-75HN

|               |                   |
|---------------|-------------------|
| Ground Level: | 4891.00           |
| Northing      | 1461715.65        |
| Easting       | 3283748.70        |
| Latitude      | 40° 35' 46.752 N  |
| Longitude     | 104° 28' 41.556 W |

Plan: Plan C - Rev 0 Proposal (Jones AC06-75HN/Sidetrack #1)

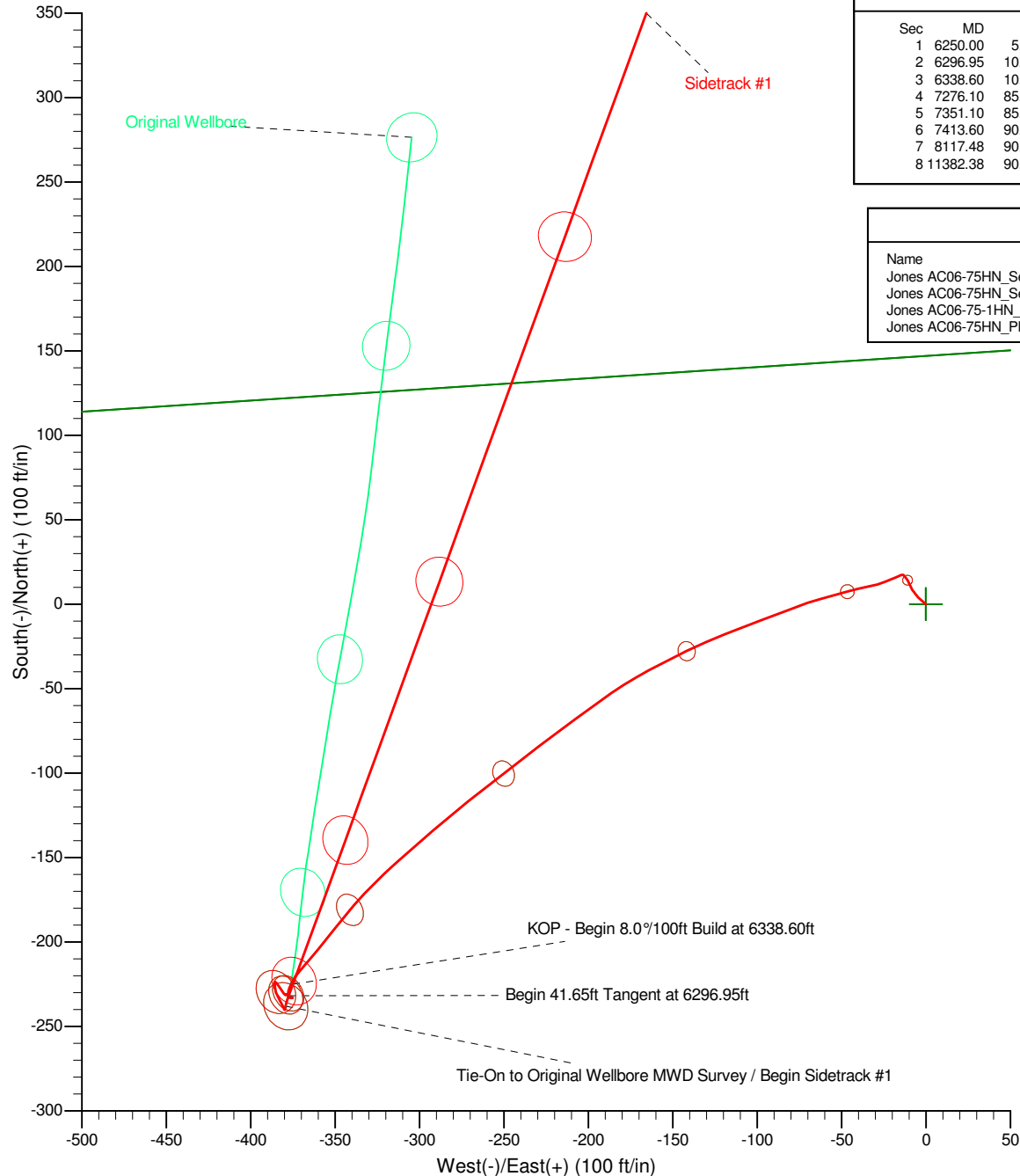
Created By: Jay Lantz Date: 9:30, July 06 2012

Approved: Date:

Project: Weld County, CO (NAD 83)  
 Site: Sec. 6-T7N-R63W  
 Well: Jones AC06-75HN  
 Wellbore: Sidetrack #1  
 Design: Plan C - Rev 0 Proposal

# Noble Energy

**HALLIBURTON**  
 Sperry Drilling



## SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | DLeg  | TFace  | VSec    | Target                               |
|-----|----------|-------|--------|---------|---------|---------|-------|--------|---------|--------------------------------------|
| 1   | 6250.00  | 5.48  | 10.25  | 6197.11 | -237.90 | -379.24 | 0.00  | 0.00   | -233.04 |                                      |
| 2   | 6296.95  | 10.00 | 20.00  | 6243.62 | -231.86 | -377.45 | 10.00 | 21.07  | -227.03 |                                      |
| 3   | 6338.60  | 10.00 | 20.00  | 6284.64 | -225.07 | -374.97 | 0.00  | 0.00   | -220.26 |                                      |
| 4   | 7276.10  | 85.00 | 20.00  | 6873.74 | 379.06  | -155.09 | 8.00  | 0.00   | 381.01  |                                      |
| 5   | 7351.10  | 85.00 | 20.00  | 6880.28 | 449.27  | -129.53 | 0.00  | 0.00   | 450.88  |                                      |
| 6   | 7413.60  | 90.00 | 20.00  | 6883.00 | 507.92  | -108.18 | 8.00  | 0.00   | 509.26  |                                      |
| 7   | 8117.48  | 90.00 | 358.88 | 6883.00 | 1198.34 | 6.63    | 3.00  | -90.00 | 1198.16 |                                      |
| 8   | 11382.38 | 90.00 | 358.88 | 6883.00 | 4462.62 | -56.98  | 0.00  | 0.00   | 4462.98 | Jones AC06-75HN_PlanC - Rev0_BHL Tgt |

## WELLBORE TARGET DETAILS (LAT/LONG)

| Name                                   | TVD     | +N/-S   | +E/-W  | Latitude         | Longitude         | Shape   |
|--|---------|---------|--------|------------------|-------------------|---------|
| Jones AC06-75HN_Sec. 6 460' Setbacks   | 0.00    | 0.00    | 0.00   | 40° 35' 46.752 N | 104° 28' 41.556 W | Polygon |
| Jones AC06-75HN_Sec. 6 Lines           | 0.00    | 0.00    | 0.00   | 40° 35' 46.752 N | 104° 28' 41.556 W | Polygon |
| Jones AC06-75-1HN_PlanB - Rev0_BHL Tgt | 6883.00 | 4462.62 | -56.98 | 40° 36' 30.852 N | 104° 28' 41.628 W | Point   |
| Jones AC06-75HN_PlanC - Rev0_BHL Tgt   | 6883.00 | 4462.62 | -56.98 | 40° 36' 30.852 N | 104° 28' 41.628 W | Point   |

## WELL DETAILS: Jones AC06-75HN

|                       |                   |
|-----------------------|-------------------|
| Ground Level: 4891.00 |                   |
| Northing              | Easting           |
| 1461715.65            | 3283748.70        |
| Latitude              | Longitude         |
| 40° 35' 46.752 N      | 104° 28' 41.556 W |

Plan: Plan C - Rev 0 Proposal (Jones AC06-75HN/Sidetrack #1)

Created By: Jay Lantz Date: 9:34, July 06 2012

Approved: Date:

