

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Dixon SWNW-23-692**

**Dixon Federal 41A-22-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**04 August, 2011**

# Bill Barrett Corp

## Planning Report

|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | Compass                            | <b>Local Co-ordinate Reference:</b> | Well Dixon Federal 41A-22-692         |
| <b>Company:</b>  | BILL BARRETT CORP                  | <b>TVD Reference:</b>               | WELL @ 5815.00ft (Original Well Elev) |
| <b>Project:</b>  | GARFIELD COUNTY, COLORADO NAD 1983 | <b>MD Reference:</b>                | WELL @ 5815.00ft (Original Well Elev) |
| <b>Site:</b>     | Dixon SWNW-23-692                  | <b>North Reference:</b>             | True                                  |
| <b>Well:</b>     | Dixon Federal 41A-22-692           | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                       |
| <b>Design:</b>   | Design #1                          |                                     |                                       |

|                    |                                    |                      |                |
|--------------------|------------------------------------|----------------------|----------------|
| <b>Project</b>     | GARFIELD COUNTY, COLORADO NAD 1983 |                      |                |
| <b>Map System:</b> | US State Plane 1983                | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983          |                      |                |
| <b>Map Zone:</b>   | Colorado Central Zone              |                      |                |

|                              |                   |                          |                    |
|------------------------------|-------------------|--------------------------|--------------------|
| <b>Site</b>                  | Dixon SWNW-23-692 |                          |                    |
| <b>Site Position:</b>        |                   | <b>Northing:</b>         | 1,620,383.301 ft   |
| <b>From:</b>                 | Lat/Long          | <b>Easting:</b>          | 2,395,551.941 ft   |
| <b>Position Uncertainty:</b> | 0.00 ft           | <b>Slot Radius:</b>      | "                  |
|                              |                   | <b>Latitude:</b>         | 39° 31' 1.780 N    |
|                              |                   | <b>Longitude:</b>        | 107° 38' 33.9108 W |
|                              |                   | <b>Grid Convergence:</b> | -1.35 °            |

|                             |                          |            |                            |
|-----------------------------|--------------------------|------------|----------------------------|
| <b>Well</b>                 | Dixon Federal 41A-22-692 |            |                            |
| <b>Well Position</b>        | <b>+N/-S</b>             | -512.50 ft | <b>Northing:</b>           |
|                             | <b>+E/-W</b>             | 38.09 ft   | <b>Easting:</b>            |
| <b>Position Uncertainty</b> |                          | 0.00 ft    | <b>Wellhead Elevation:</b> |
|                             |                          |            | ft                         |
|                             |                          |            | <b>Latitude:</b>           |
|                             |                          |            | 39° 30' 56.714 N           |
|                             |                          |            | <b>Longitude:</b>          |
|                             |                          |            | 107° 38' 33.4248 W         |
|                             |                          |            | <b>Ground Level:</b>       |
|                             |                          |            | 0.00 ft                    |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF200510        | 12/31/2009         | 10.36                  | 65.87                | 52,483                     |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Design #1                    |                   |                      |                      |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                | PROTOTYPE         | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.00                         | 0.00              | 0.00                 | 287.20               |

|                            |                        |                    |                            |                   |                   |                              |                             |                            |                |                    |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|-----------------------------|----------------------------|----------------|--------------------|
| <b>Plan Sections</b>       |                        |                    |                            |                   |                   |                              |                             |                            |                |                    |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> | <b>TFO (°)</b> | <b>Target</b>      |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                    |
| 800.00                     | 0.00                   | 0.00               | 800.00                     | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                    |
| 1,353.33                   | 13.83                  | 287.20             | 1,347.97                   | 19.66             | -63.50            | 2.50                         | 2.50                        | 0.00                       | 287.20         |                    |
| 4,872.14                   | 13.83                  | 287.20             | 4,764.72                   | 268.49            | -867.20           | 0.00                         | 0.00                        | 0.00                       | 0.00           |                    |
| 5,794.35                   | 0.00                   | 0.00               | 5,678.00                   | 301.26            | -973.03           | 1.50                         | -1.50                       | 0.00                       | 180.00         |                    |
| 7,794.35                   | 0.00                   | 0.00               | 7,678.00                   | 301.26            | -973.03           | 0.00                         | 0.00                        | 0.00                       | 0.00           | Dixon Federal 41A- |

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## Planning Report

|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | Compass                            | <b>Local Co-ordinate Reference:</b> | Well Dixon Federal 41A-22-692         |
| <b>Company:</b>  | BILL BARRETT CORP                  | <b>TVD Reference:</b>               | WELL @ 5815.00ft (Original Well Elev) |
| <b>Project:</b>  | GARFIELD COUNTY, COLORADO NAD 1983 | <b>MD Reference:</b>                | WELL @ 5815.00ft (Original Well Elev) |
| <b>Site:</b>     | Dixon SWNW-23-692                  | <b>North Reference:</b>             | True                                  |
| <b>Well:</b>     | Dixon Federal 41A-22-692           | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                       |
| <b>Design:</b>   | Design #1                          |                                     |                                       |

| Planned 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) |  |
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 100.00              | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 200.00              | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 300.00              | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 400.00              | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 500.00              | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 600.00              | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 700.00              | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 800.00              | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 900.00              | 2.50            | 287.20      | 899.97              | 0.65       | -2.08      | 2.18                  | 2.50                  | 2.50                 | 0.00                |  |
| 1,000.00            | 5.00            | 287.20      | 999.75              | 2.58       | -8.33      | 8.72                  | 2.50                  | 2.50                 | 0.00                |  |
| 1,100.00            | 7.50            | 287.20      | 1,099.14            | 5.80       | -18.73     | 19.61                 | 2.50                  | 2.50                 | 0.00                |  |
| 1,200.00            | 10.00           | 287.20      | 1,197.97            | 10.30      | -33.26     | 34.82                 | 2.50                  | 2.50                 | 0.00                |  |
| 1,300.00            | 12.50           | 287.20      | 1,296.04            | 16.07      | -51.90     | 54.33                 | 2.50                  | 2.50                 | 0.00                |  |
| 1,353.33            | 13.83           | 287.20      | 1,347.97            | 19.66      | -63.50     | 66.47                 | 2.50                  | 2.50                 | 0.00                |  |
| 1,400.00            | 13.83           | 287.20      | 1,393.29            | 22.96      | -74.16     | 77.63                 | 0.00                  | 0.00                 | 0.00                |  |
| 1,500.00            | 13.83           | 287.20      | 1,490.39            | 30.03      | -97.00     | 101.54                | 0.00                  | 0.00                 | 0.00                |  |
| 1,600.00            | 13.83           | 287.20      | 1,587.49            | 37.10      | -119.84    | 125.45                | 0.00                  | 0.00                 | 0.00                |  |
| 1,700.00            | 13.83           | 287.20      | 1,684.59            | 44.17      | -142.68    | 149.36                | 0.00                  | 0.00                 | 0.00                |  |
| 1,800.00            | 13.83           | 287.20      | 1,781.68            | 51.25      | -165.52    | 173.27                | 0.00                  | 0.00                 | 0.00                |  |
| 1,900.00            | 13.83           | 287.20      | 1,878.78            | 58.32      | -188.36    | 197.18                | 0.00                  | 0.00                 | 0.00                |  |
| 2,000.00            | 13.83           | 287.20      | 1,975.88            | 65.39      | -211.20    | 221.09                | 0.00                  | 0.00                 | 0.00                |  |
| 2,100.00            | 13.83           | 287.20      | 2,072.98            | 72.46      | -234.04    | 245.00                | 0.00                  | 0.00                 | 0.00                |  |
| 2,200.00            | 13.83           | 287.20      | 2,170.08            | 79.53      | -256.88    | 268.91                | 0.00                  | 0.00                 | 0.00                |  |
| 2,300.00            | 13.83           | 287.20      | 2,267.18            | 86.60      | -279.72    | 292.82                | 0.00                  | 0.00                 | 0.00                |  |
| 2,400.00            | 13.83           | 287.20      | 2,364.28            | 93.67      | -302.56    | 316.73                | 0.00                  | 0.00                 | 0.00                |  |
| 2,500.00            | 13.83           | 287.20      | 2,461.38            | 100.75     | -325.40    | 340.64                | 0.00                  | 0.00                 | 0.00                |  |
| 2,600.00            | 13.83           | 287.20      | 2,558.48            | 107.82     | -348.24    | 364.55                | 0.00                  | 0.00                 | 0.00                |  |
| 2,700.00            | 13.83           | 287.20      | 2,655.58            | 114.89     | -371.08    | 388.46                | 0.00                  | 0.00                 | 0.00                |  |
| 2,800.00            | 13.83           | 287.20      | 2,752.68            | 121.96     | -393.92    | 412.37                | 0.00                  | 0.00                 | 0.00                |  |
| 2,900.00            | 13.83           | 287.20      | 2,849.78            | 129.03     | -416.76    | 436.28                | 0.00                  | 0.00                 | 0.00                |  |
| 3,000.00            | 13.83           | 287.20      | 2,946.88            | 136.10     | -439.60    | 460.19                | 0.00                  | 0.00                 | 0.00                |  |
| 3,100.00            | 13.83           | 287.20      | 3,043.98            | 143.17     | -462.44    | 484.10                | 0.00                  | 0.00                 | 0.00                |  |
| 3,200.00            | 13.83           | 287.20      | 3,141.08            | 150.25     | -485.28    | 508.01                | 0.00                  | 0.00                 | 0.00                |  |
| 3,300.00            | 13.83           | 287.20      | 3,238.18            | 157.32     | -508.12    | 531.91                | 0.00                  | 0.00                 | 0.00                |  |
| 3,400.00            | 13.83           | 287.20      | 3,335.28            | 164.39     | -530.96    | 555.82                | 0.00                  | 0.00                 | 0.00                |  |
| 3,500.00            | 13.83           | 287.20      | 3,432.38            | 171.46     | -553.80    | 579.73                | 0.00                  | 0.00                 | 0.00                |  |
| 3,600.00            | 13.83           | 287.20      | 3,529.48            | 178.53     | -576.64    | 603.64                | 0.00                  | 0.00                 | 0.00                |  |
| 3,700.00            | 13.83           | 287.20      | 3,626.58            | 185.60     | -599.48    | 627.55                | 0.00                  | 0.00                 | 0.00                |  |
| 3,800.00            | 13.83           | 287.20      | 3,723.68            | 192.67     | -622.32    | 651.46                | 0.00                  | 0.00                 | 0.00                |  |
| 3,900.00            | 13.83           | 287.20      | 3,820.78            | 199.75     | -645.16    | 675.37                | 0.00                  | 0.00                 | 0.00                |  |
| 4,000.00            | 13.83           | 287.20      | 3,917.88            | 206.82     | -668.00    | 699.28                | 0.00                  | 0.00                 | 0.00                |  |
| 4,100.00            | 13.83           | 287.20      | 4,014.98            | 213.89     | -690.84    | 723.19                | 0.00                  | 0.00                 | 0.00                |  |
| 4,200.00            | 13.83           | 287.20      | 4,112.07            | 220.96     | -713.68    | 747.10                | 0.00                  | 0.00                 | 0.00                |  |
| 4,300.00            | 13.83           | 287.20      | 4,209.17            | 228.03     | -736.52    | 771.01                | 0.00                  | 0.00                 | 0.00                |  |
| 4,400.00            | 13.83           | 287.20      | 4,306.27            | 235.10     | -759.36    | 794.92                | 0.00                  | 0.00                 | 0.00                |  |
| 4,500.00            | 13.83           | 287.20      | 4,403.37            | 242.17     | -782.20    | 818.83                | 0.00                  | 0.00                 | 0.00                |  |
| 4,600.00            | 13.83           | 287.20      | 4,500.47            | 249.25     | -805.04    | 842.74                | 0.00                  | 0.00                 | 0.00                |  |
| 4,700.00            | 13.83           | 287.20      | 4,597.57            | 256.32     | -827.88    | 866.65                | 0.00                  | 0.00                 | 0.00                |  |
| 4,800.00            | 13.83           | 287.20      | 4,694.67            | 263.39     | -850.72    | 890.56                | 0.00                  | 0.00                 | 0.00                |  |
| 4,872.14            | 13.83           | 287.20      | 4,764.72            | 268.49     | -867.20    | 907.81                | 0.00                  | 0.00                 | 0.00                |  |
| 4,900.00            | 13.42           | 287.20      | 4,791.80            | 270.43     | -873.46    | 914.37                | 1.50                  | -1.50                | 0.00                |  |
| 5,000.00            | 11.92           | 287.20      | 4,889.36            | 276.92     | -894.41    | 936.30                | 1.50                  | -1.50                | 0.00                |  |

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## Planning Report

|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | Compass                            | <b>Local Co-ordinate Reference:</b> | Well Dixon Federal 41A-22-692         |
| <b>Company:</b>  | BILL BARRETT CORP                  | <b>TVD Reference:</b>               | WELL @ 5815.00ft (Original Well Elev) |
| <b>Project:</b>  | GARFIELD COUNTY, COLORADO NAD 1983 | <b>MD Reference:</b>                | WELL @ 5815.00ft (Original Well Elev) |
| <b>Site:</b>     | Dixon SWNW-23-692                  | <b>North Reference:</b>             | True                                  |
| <b>Well:</b>     | Dixon Federal 41A-22-692           | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                       |
| <b>Design:</b>   | Design #1                          |                                     |                                       |

### Planned 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 5,100.00            | 10.42           | 287.20      | 4,987.46            | 282.64     | -912.91    | 955.66                | 1.50                  | -1.50                | 0.00                |
| 5,200.00            | 8.92            | 287.20      | 5,086.04            | 287.61     | -928.94    | 972.45                | 1.50                  | -1.50                | 0.00                |
| 5,300.00            | 7.42            | 287.20      | 5,185.03            | 291.81     | -942.51    | 986.65                | 1.50                  | -1.50                | 0.00                |
| 5,400.00            | 5.92            | 287.20      | 5,284.35            | 295.24     | -953.60    | 998.26                | 1.50                  | -1.50                | 0.00                |
| 5,500.00            | 4.42            | 287.20      | 5,383.94            | 297.90     | -962.20    | 1,007.26              | 1.50                  | -1.50                | 0.00                |
| 5,600.00            | 2.92            | 287.20      | 5,483.73            | 299.79     | -968.30    | 1,013.65              | 1.50                  | -1.50                | 0.00                |
| 5,700.00            | 1.42            | 287.20      | 5,583.66            | 300.91     | -971.91    | 1,017.43              | 1.50                  | -1.50                | 0.00                |
| 5,794.35            | 0.00            | 0.00        | 5,678.00            | 301.26     | -973.03    | 1,018.60              | 1.50                  | -1.50                | 0.00                |
| 5,800.00            | 0.00            | 0.00        | 5,683.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 5,900.00            | 0.00            | 0.00        | 5,783.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,000.00            | 0.00            | 0.00        | 5,883.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,100.00            | 0.00            | 0.00        | 5,983.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 0.00            | 0.00        | 6,083.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 0.00            | 0.00        | 6,183.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 0.00            | 0.00        | 6,283.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,500.00            | 0.00            | 0.00        | 6,383.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 0.00            | 0.00        | 6,483.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,700.00            | 0.00            | 0.00        | 6,583.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,800.00            | 0.00            | 0.00        | 6,683.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 6,900.00            | 0.00            | 0.00        | 6,783.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,000.00            | 0.00            | 0.00        | 6,883.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,100.00            | 0.00            | 0.00        | 6,983.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,200.00            | 0.00            | 0.00        | 7,083.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,300.00            | 0.00            | 0.00        | 7,183.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,400.00            | 0.00            | 0.00        | 7,283.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,500.00            | 0.00            | 0.00        | 7,383.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,600.00            | 0.00            | 0.00        | 7,483.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,700.00            | 0.00            | 0.00        | 7,583.65            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |
| 7,794.35            | 0.00            | 0.00        | 7,678.00            | 301.26     | -973.03    | 1,018.60              | 0.00                  | 0.00                 | 0.00                |

### Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name   | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 780.00              | 780.00              | 9 5/8" | 9-5/8               | 12-1/4            |

### Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name       | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|------------|-----------|---------|-------------------|
| 3,814.75            | 3,738.00            | Mesaverde  |           | 0.00    |                   |
| 4,762.23            | 4,658.00            | Price Coal |           | 0.00    |                   |
| 5,534.15            | 5,418.00            | Top Gas    |           | 0.00    |                   |
| 7,494.35            | 7,378.00            | Rollins    |           | 0.00    |                   |
| 7,794.35            | 7,678.00            | TD         |           | 0.00    |                   |

# WELL DETAILS: Dixon Federal 41A-22-692

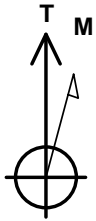
|       |       |             |               |                                     |           |      |
|-------|-------|-------------|---------------|-------------------------------------|-----------|------|
|       |       |             | Ground Level: | 0.00                                |           |      |
| +N/-S | +E/-W | Northing    | Easting       | Latitude                            | Longitude | Slot |
| 0.00  | 0.00  | 1619870.048 | 2395577.930   | 39° 30' 56.714 N 107° 38' 33.4248 W |           |      |

## SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W   | DLeg | TFace  | VSec    | Target                        |
|-----|---------|-------|--------|---------|--------|---------|------|--------|---------|-------------------------------|
| 1   | 0.00    | 0.00  | 0.00   | 0.00    | 0.00   | 0.00    | 0.00 | 0.00   | 0.00    |                               |
| 2   | 800.00  | 0.00  | 0.00   | 800.00  | 0.00   | 0.00    | 0.00 | 0.00   | 0.00    |                               |
| 3   | 1353.33 | 13.83 | 287.20 | 1347.97 | 19.66  | -63.50  | 2.50 | 287.20 | 66.47   |                               |
| 4   | 4872.14 | 13.83 | 287.20 | 4764.72 | 268.49 | -867.20 | 0.00 | 0.00   | 907.81  |                               |
| 5   | 5794.35 | 0.00  | 0.00   | 5678.00 | 301.26 | -973.03 | 1.50 | 180.00 | 1018.60 |                               |
| 6   | 7794.35 | 0.00  | 0.00   | 7678.00 | 301.26 | -973.03 | 0.00 | 0.00   | 1018.60 | Dixon Federal 41A-22-692 (TD) |

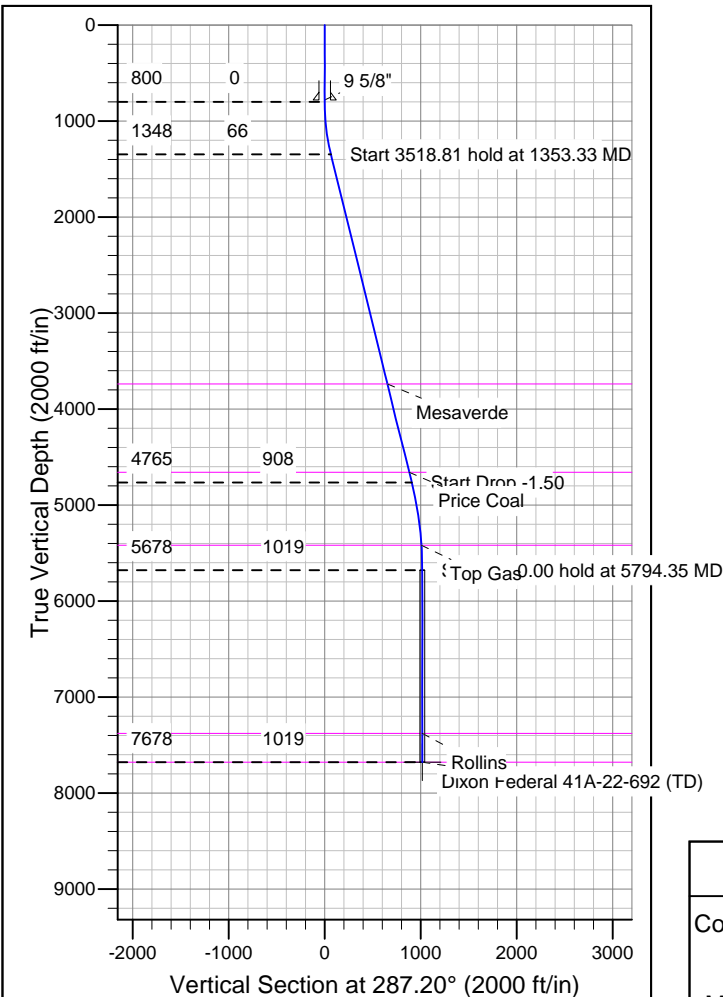
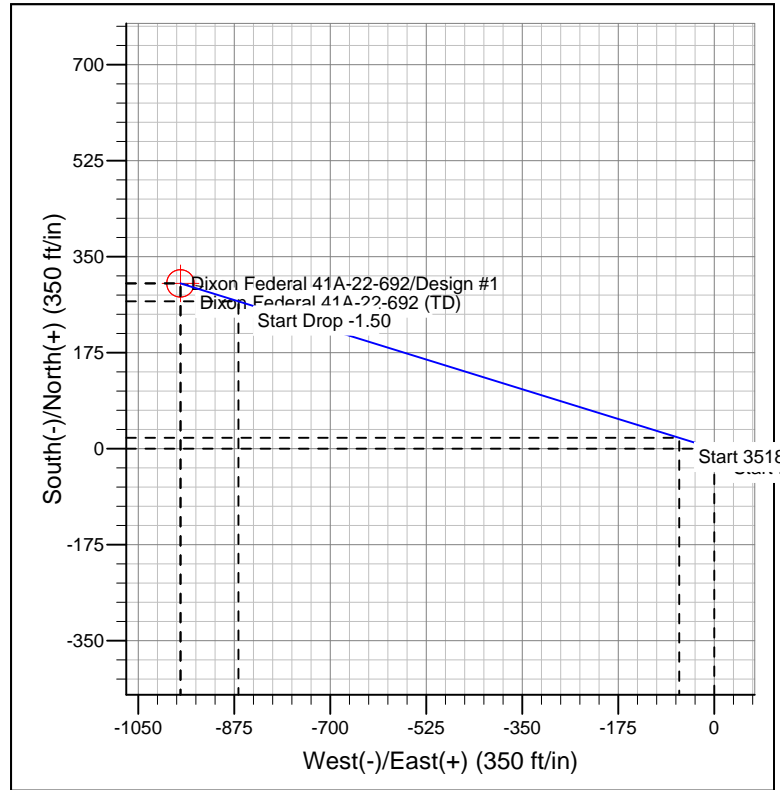
## WELLBORE TARGET DETAILS

|                               |         |        |         |                        |
|-------------------------------|---------|--------|---------|------------------------|
| Name                          | TVD     | +N/-S  | +E/-W   | Shape                  |
| Dixon Federal 41A-22-692 (TD) | 7678.00 | 301.26 | -973.03 | Circle (Radius: 25.00) |



Azimuths to True North  
Magnetic North: 10.36°

Magnetic Field  
Strength: 52483.2snT  
Dip Angle: 65.87°  
Date: 12/31/2009  
Model: IGRF200510



## FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation  |
|---------|---------|------------|
| 3738.00 | 3814.75 | Mesaverde  |
| 4658.00 | 4762.23 | Price Coal |
| 5418.00 | 5534.15 | Top Gas    |
| 7378.00 | 7494.35 | Rollins    |
| 7678.00 | 7794.35 | TD         |

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Dixon Federal 41A-22-692, True North  
Vertical (TVD) Reference: WELL @ 5815.00ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: WELL @ 5815.00ft (Original Well Elev)  
Calculation Method: Minimum Curvature