

# **BILL BARRETT CORP**

**GARFIELD COUNTY, COLORADO NAD 1983**

**Kaufman Pad #4 NWNW-30-691**

**Kaufman 42B-25-692**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**31 December, 2009**

# BBC

## Planning Report

|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | Compass                            | <b>Local Co-ordinate Reference:</b> | Well Kaufman 42B-25-692               |
| <b>Company:</b>  | BILL BARRETT CORP                  | <b>TVD Reference:</b>               | WELL @ 5786.00ft (Original Well Elev) |
| <b>Project:</b>  | GARFIELD COUNTY, COLORADO NAD 1983 | <b>MD Reference:</b>                | WELL @ 5786.00ft (Original Well Elev) |
| <b>Site:</b>     | Kaufman Pad #4 NWNW-30-691         | <b>North Reference:</b>             | True                                  |
| <b>Well:</b>     | Kaufman 42B-25-692                 | <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              |                      |                |

| Site                  |  |  |           |  |  | Kaufman Pad #4 NWNW-30-691 |  |  |                  |  |  |                   |  |  |                    |  |  |
|-----------------------|--|--|-----------|--|--|----------------------------|--|--|------------------|--|--|-------------------|--|--|--------------------|--|--|
| Site Position:        |  |  | Northing: |  |  | 1,614,920.309ft            |  |  | Latitude:        |  |  | 39° 30' 10.271 N  |  |  |                    |  |  |
| From:                 |  |  | Lat/Long  |  |  | Easting:                   |  |  | 2,406,245.151 ft |  |  | Longitude:        |  |  | 107° 36' 15.8796 W |  |  |
| Position Uncertainty: |  |  | 0.00 ft   |  |  | Slot Radius:               |  |  | "                |  |  | Grid Convergence: |  |  | -1.33 °            |  |  |

|                      |                    |           |                     |                  |               |                    |
|----------------------|--------------------|-----------|---------------------|------------------|---------------|--------------------|
| Well                 | Kaufman 42B-25-692 |           |                     |                  |               |                    |
| Well Position        | +N-S               | 29.13 ft  | Northing:           | 1,614,949.739 ft | Latitude:     | 39° 30' 10.559 N   |
|                      | +E-W               | -13.26 ft | Easting:            | 2,406,232.567 ft | Longitude:    | 107° 36' 16.0488 W |
| Position Uncertainty |                    | 0.00 ft   | Wellhead Elevation: | ft               | Ground Level: | 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> |
|                  | BGGM2007          | 12/29/2009         | 10.42                  | 65.84                | 52,432                     |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <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                 | 222.90               |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                    |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target             |
| 0.00                 | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 760.00               | 0.00            | 0.00        | 760.00              | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 1,710.38             | 23.76           | 222.90      | 1,683.38            | -142.29    | -132.23    | 2.50                  | 2.50                 | 0.00                | 222.90  |                    |
| 4,459.00             | 23.76           | 222.90      | 4,199.04            | -953.52    | -886.07    | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 6,042.97             | 0.00            | 0.00        | 5,738.00            | -1,190.67  | -1,106.45  | 1.50                  | -1.50                | 0.00                | 180.00  |                    |
| 7,542.97             | 0.00            | 0.00        | 7,238.00            | -1,190.67  | -1,106.45  | 0.00                  | 0.00                 | 0.00                | 0.00    | Kaufman 42B-25-692 |

# BBC

## Planning Report

|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | Compass                            | <b>Local Co-ordinate Reference:</b> | Well Kaufman 42B-25-692               |
| <b>Company:</b>  | BILL BARRETT CORP                  | <b>TVD Reference:</b>               | WELL @ 5786.00ft (Original Well Elev) |
| <b>Project:</b>  | GARFIELD COUNTY, COLORADO NAD 1983 | <b>MD Reference:</b>                | WELL @ 5786.00ft (Original Well Elev) |
| <b>Site:</b>     | Kaufman Pad #4 NWNW-30-691         | <b>North Reference:</b>             | True                                  |
| <b>Well:</b>     | Kaufman 42B-25-692                 | <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                |
| 760.00              | 0.00            | 0.00        | 760.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>9 5/8"</b>       |                 |             |                     |            |            |                       |                       |                      |                     |
| 800.00              | 1.00            | 222.90      | 800.00              | -0.26      | -0.24      | 0.35                  | 2.50                  | 2.50                 | 0.00                |
| 900.00              | 3.50            | 222.90      | 899.91              | -3.13      | -2.91      | 4.27                  | 2.50                  | 2.50                 | 0.00                |
| 1,000.00            | 6.00            | 222.90      | 999.56              | -9.20      | -8.55      | 12.55                 | 2.50                  | 2.50                 | 0.00                |
| 1,100.00            | 8.50            | 222.90      | 1,098.75            | -18.44     | -17.14     | 25.17                 | 2.50                  | 2.50                 | 0.00                |
| 1,200.00            | 11.00           | 222.90      | 1,197.30            | -30.85     | -28.66     | 42.11                 | 2.50                  | 2.50                 | 0.00                |
| 1,300.00            | 13.50           | 222.90      | 1,295.02            | -46.39     | -43.11     | 63.32                 | 2.50                  | 2.50                 | 0.00                |
| 1,400.00            | 16.00           | 222.90      | 1,391.71            | -65.04     | -60.44     | 88.78                 | 2.50                  | 2.50                 | 0.00                |
| 1,500.00            | 18.50           | 222.90      | 1,487.21            | -86.76     | -80.62     | 118.43                | 2.50                  | 2.50                 | 0.00                |
| 1,600.00            | 21.00           | 222.90      | 1,581.32            | -111.51    | -103.62    | 152.22                | 2.50                  | 2.50                 | 0.00                |
| 1,700.00            | 23.50           | 222.90      | 1,673.87            | -139.24    | -129.39    | 190.08                | 2.50                  | 2.50                 | 0.00                |
| 1,710.38            | 23.76           | 222.90      | 1,683.38            | -142.29    | -132.23    | 194.25                | 2.50                  | 2.50                 | 0.00                |
| 1,800.00            | 23.76           | 222.90      | 1,765.40            | -168.74    | -156.81    | 230.35                | 0.00                  | 0.00                 | 0.00                |
| 1,900.00            | 23.76           | 222.90      | 1,856.92            | -198.26    | -184.23    | 270.64                | 0.00                  | 0.00                 | 0.00                |
| 2,000.00            | 23.76           | 222.90      | 1,948.45            | -227.77    | -211.66    | 310.93                | 0.00                  | 0.00                 | 0.00                |
| 2,100.00            | 23.76           | 222.90      | 2,039.97            | -257.28    | -239.09    | 351.22                | 0.00                  | 0.00                 | 0.00                |
| 2,200.00            | 23.76           | 222.90      | 2,131.50            | -286.80    | -266.51    | 391.51                | 0.00                  | 0.00                 | 0.00                |
| 2,300.00            | 23.76           | 222.90      | 2,223.02            | -316.31    | -293.94    | 431.80                | 0.00                  | 0.00                 | 0.00                |
| 2,400.00            | 23.76           | 222.90      | 2,314.55            | -345.83    | -321.36    | 472.09                | 0.00                  | 0.00                 | 0.00                |
| 2,500.00            | 23.76           | 222.90      | 2,406.07            | -375.34    | -348.79    | 512.38                | 0.00                  | 0.00                 | 0.00                |
| 2,600.00            | 23.76           | 222.90      | 2,497.60            | -404.85    | -376.22    | 552.67                | 0.00                  | 0.00                 | 0.00                |
| 2,700.00            | 23.76           | 222.90      | 2,589.12            | -434.37    | -403.64    | 592.96                | 0.00                  | 0.00                 | 0.00                |
| 2,800.00            | 23.76           | 222.90      | 2,680.64            | -463.88    | -431.07    | 633.25                | 0.00                  | 0.00                 | 0.00                |
| 2,900.00            | 23.76           | 222.90      | 2,772.17            | -493.39    | -458.50    | 673.54                | 0.00                  | 0.00                 | 0.00                |
| 3,000.00            | 23.76           | 222.90      | 2,863.69            | -522.91    | -485.92    | 713.83                | 0.00                  | 0.00                 | 0.00                |
| 3,100.00            | 23.76           | 222.90      | 2,955.22            | -552.42    | -513.35    | 754.12                | 0.00                  | 0.00                 | 0.00                |
| 3,200.00            | 23.76           | 222.90      | 3,046.74            | -581.94    | -540.78    | 794.41                | 0.00                  | 0.00                 | 0.00                |
| 3,300.00            | 23.76           | 222.90      | 3,138.27            | -611.45    | -568.20    | 834.70                | 0.00                  | 0.00                 | 0.00                |
| 3,400.00            | 23.76           | 222.90      | 3,229.79            | -640.96    | -595.63    | 874.99                | 0.00                  | 0.00                 | 0.00                |
| 3,500.00            | 23.76           | 222.90      | 3,321.32            | -670.48    | -623.05    | 915.28                | 0.00                  | 0.00                 | 0.00                |
| 3,507.30            | 23.76           | 222.90      | 3,328.00            | -672.63    | -625.06    | 918.22                | 0.00                  | 0.00                 | 0.00                |
| <b>Mesaverde</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,600.00            | 23.76           | 222.90      | 3,412.84            | -699.99    | -650.48    | 955.57                | 0.00                  | 0.00                 | 0.00                |
| 3,700.00            | 23.76           | 222.90      | 3,504.36            | -729.51    | -677.91    | 995.86                | 0.00                  | 0.00                 | 0.00                |
| 3,800.00            | 23.76           | 222.90      | 3,595.89            | -759.02    | -705.33    | 1,036.15              | 0.00                  | 0.00                 | 0.00                |
| 3,900.00            | 23.76           | 222.90      | 3,687.41            | -788.53    | -732.76    | 1,076.44              | 0.00                  | 0.00                 | 0.00                |
| 4,000.00            | 23.76           | 222.90      | 3,778.94            | -818.05    | -760.19    | 1,116.73              | 0.00                  | 0.00                 | 0.00                |
| 4,100.00            | 23.76           | 222.90      | 3,870.46            | -847.56    | -787.61    | 1,157.02              | 0.00                  | 0.00                 | 0.00                |
| 4,200.00            | 23.76           | 222.90      | 3,961.99            | -877.08    | -815.04    | 1,197.31              | 0.00                  | 0.00                 | 0.00                |
| 4,300.00            | 23.76           | 222.90      | 4,053.51            | -906.59    | -842.46    | 1,237.60              | 0.00                  | 0.00                 | 0.00                |
| 4,381.39            | 23.76           | 222.90      | 4,128.00            | -930.61    | -864.79    | 1,270.39              | 0.00                  | 0.00                 | 0.00                |
| <b>Price Coal</b>   |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,400.00            | 23.76           | 222.90      | 4,145.04            | -936.10    | -869.89    | 1,277.89              | 0.00                  | 0.00                 | 0.00                |
| 4,459.00            | 23.76           | 222.90      | 4,199.04            | -953.52    | -886.07    | 1,301.66              | 0.00                  | 0.00                 | 0.00                |

# BBC

## Planning Report

|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | Compass                            | <b>Local Co-ordinate Reference:</b> | Well Kaufman 42B-25-692               |
| <b>Company:</b>  | BILL BARRETT CORP                  | <b>TVD Reference:</b>               | WELL @ 5786.00ft (Original Well Elev) |
| <b>Project:</b>  | GARFIELD COUNTY, COLORADO NAD 1983 | <b>MD Reference:</b>                | WELL @ 5786.00ft (Original Well Elev) |
| <b>Site:</b>     | Kaufman Pad #4 NWNW-30-691         | <b>North Reference:</b>             | True                                  |
| <b>Well:</b>     | Kaufman 42B-25-692                 | <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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,500.00            | 23.14           | 222.90      | 4,236.65            | -965.47    | -897.18    | 1,317.98              | 1.50                  | -1.50                | 0.00                |
| 4,600.00            | 21.64           | 222.90      | 4,329.10            | -993.38    | -923.11    | 1,356.07              | 1.50                  | -1.50                | 0.00                |
| 4,700.00            | 20.14           | 222.90      | 4,422.52            | -1,019.50  | -947.39    | 1,391.74              | 1.50                  | -1.50                | 0.00                |
| 4,705.83            | 20.06           | 222.90      | 4,428.00            | -1,020.97  | -948.75    | 1,393.74              | 1.50                  | -1.50                | 0.00                |
| <b>Top Gas</b>      |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,800.00            | 18.64           | 222.90      | 4,516.85            | -1,043.83  | -970.00    | 1,424.94              | 1.50                  | -1.50                | 0.00                |
| 4,900.00            | 17.14           | 222.90      | 4,612.01            | -1,066.33  | -990.91    | 1,455.67              | 1.50                  | -1.50                | 0.00                |
| 5,000.00            | 15.64           | 222.90      | 4,707.94            | -1,087.01  | -1,010.12  | 1,483.89              | 1.50                  | -1.50                | 0.00                |
| 5,100.00            | 14.14           | 222.90      | 4,804.58            | -1,105.84  | -1,027.62  | 1,509.60              | 1.50                  | -1.50                | 0.00                |
| 5,200.00            | 12.64           | 222.90      | 4,901.85            | -1,122.81  | -1,043.39  | 1,532.76              | 1.50                  | -1.50                | 0.00                |
| 5,300.00            | 11.14           | 222.90      | 4,999.70            | -1,137.91  | -1,057.42  | 1,553.37              | 1.50                  | -1.50                | 0.00                |
| 5,400.00            | 9.64            | 222.90      | 5,098.06            | -1,151.12  | -1,069.70  | 1,571.42              | 1.50                  | -1.50                | 0.00                |
| 5,500.00            | 8.14            | 222.90      | 5,196.85            | -1,162.45  | -1,080.23  | 1,586.88              | 1.50                  | -1.50                | 0.00                |
| 5,600.00            | 6.64            | 222.90      | 5,296.02            | -1,171.88  | -1,088.99  | 1,599.75              | 1.50                  | -1.50                | 0.00                |
| 5,700.00            | 5.14            | 222.90      | 5,395.49            | -1,179.40  | -1,095.98  | 1,610.02              | 1.50                  | -1.50                | 0.00                |
| 5,800.00            | 3.64            | 222.90      | 5,495.19            | -1,185.01  | -1,101.19  | 1,617.68              | 1.50                  | -1.50                | 0.00                |
| 5,900.00            | 2.14            | 222.90      | 5,595.06            | -1,188.71  | -1,104.63  | 1,622.73              | 1.50                  | -1.50                | 0.00                |
| 6,000.00            | 0.64            | 222.90      | 5,695.03            | -1,190.49  | -1,106.29  | 1,625.16              | 1.50                  | -1.50                | 0.00                |
| 6,042.97            | 0.00            | 0.00        | 5,738.00            | -1,190.67  | -1,106.45  | 1,625.40              | 1.50                  | -1.50                | 0.00                |
| 6,100.00            | 0.00            | 0.00        | 5,795.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 0.00            | 0.00        | 5,895.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 0.00            | 0.00        | 5,995.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 0.00            | 0.00        | 6,095.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,500.00            | 0.00            | 0.00        | 6,195.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 0.00            | 0.00        | 6,295.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,700.00            | 0.00            | 0.00        | 6,395.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,800.00            | 0.00            | 0.00        | 6,495.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 6,900.00            | 0.00            | 0.00        | 6,595.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 7,000.00            | 0.00            | 0.00        | 6,695.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 7,100.00            | 0.00            | 0.00        | 6,795.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 7,200.00            | 0.00            | 0.00        | 6,895.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 7,227.97            | 0.00            | 0.00        | 6,923.00            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| <b>Rollins</b>      |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,300.00            | 0.00            | 0.00        | 6,995.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 7,400.00            | 0.00            | 0.00        | 7,095.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 7,500.00            | 0.00            | 0.00        | 7,195.03            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |
| 7,542.97            | 0.00            | 0.00        | 7,238.00            | -1,190.67  | -1,106.45  | 1,625.40              | 0.00                  | 0.00                 | 0.00                |

### Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name   | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 760.00              | 760.00              | 9 5/8" | 9-5/8               | 12-1/4            |

# BBC

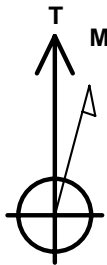
## Planning Report

|                  |                                    |                                     |                                       |
|------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | Compass                            | <b>Local Co-ordinate Reference:</b> | Well Kaufman 42B-25-692               |
| <b>Company:</b>  | BILL BARRETT CORP                  | <b>TVD Reference:</b>               | WELL @ 5786.00ft (Original Well Elev) |
| <b>Project:</b>  | GARFIELD COUNTY, COLORADO NAD 1983 | <b>MD Reference:</b>                | WELL @ 5786.00ft (Original Well Elev) |
| <b>Site:</b>     | Kaufman Pad #4 NWNW-30-691         | <b>North Reference:</b>             | True                                  |
| <b>Well:</b>     | Kaufman 42B-25-692                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                       |
| <b>Design:</b>   | Design #1                          |                                     |                                       |

| Formations          |                     |            |           |         |                   |  |
|---------------------|---------------------|------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name       | Lithology | Dip (°) | Dip Direction (°) |  |
| 3,507.30            | 3,328.00            | Mesaverde  |           | 0.00    |                   |  |
| 4,381.39            | 4,128.00            | Price Coal |           | 0.00    |                   |  |
| 4,705.83            | 4,428.00            | Top Gas    |           | 0.00    |                   |  |
| 7,227.97            | 6,923.00            | Rollins    |           | 0.00    |                   |  |

WELL DETAILS: Kaufman 42B-25-692

Ground Level: 0.00  
+N/-S+E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1614949.739 2406232.567 30° 10.567' N 16.0488 W



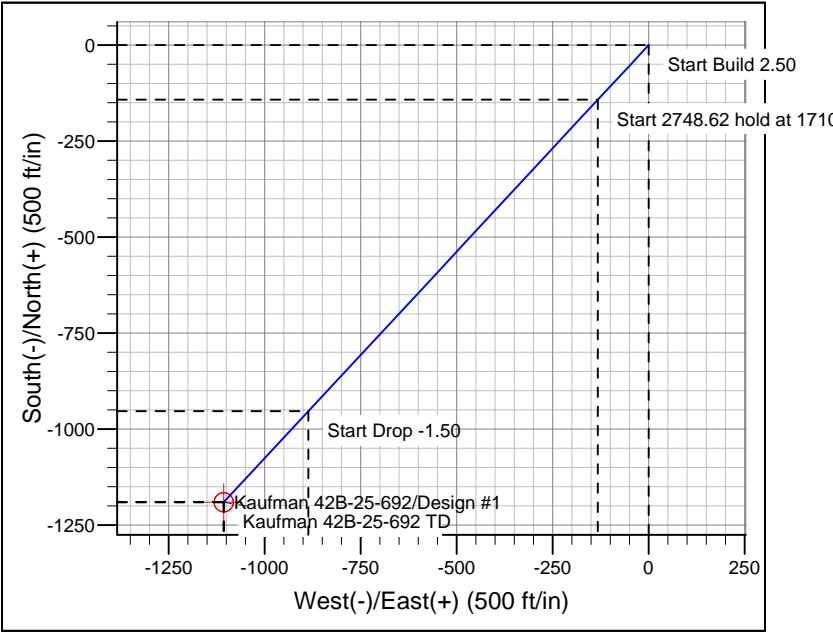
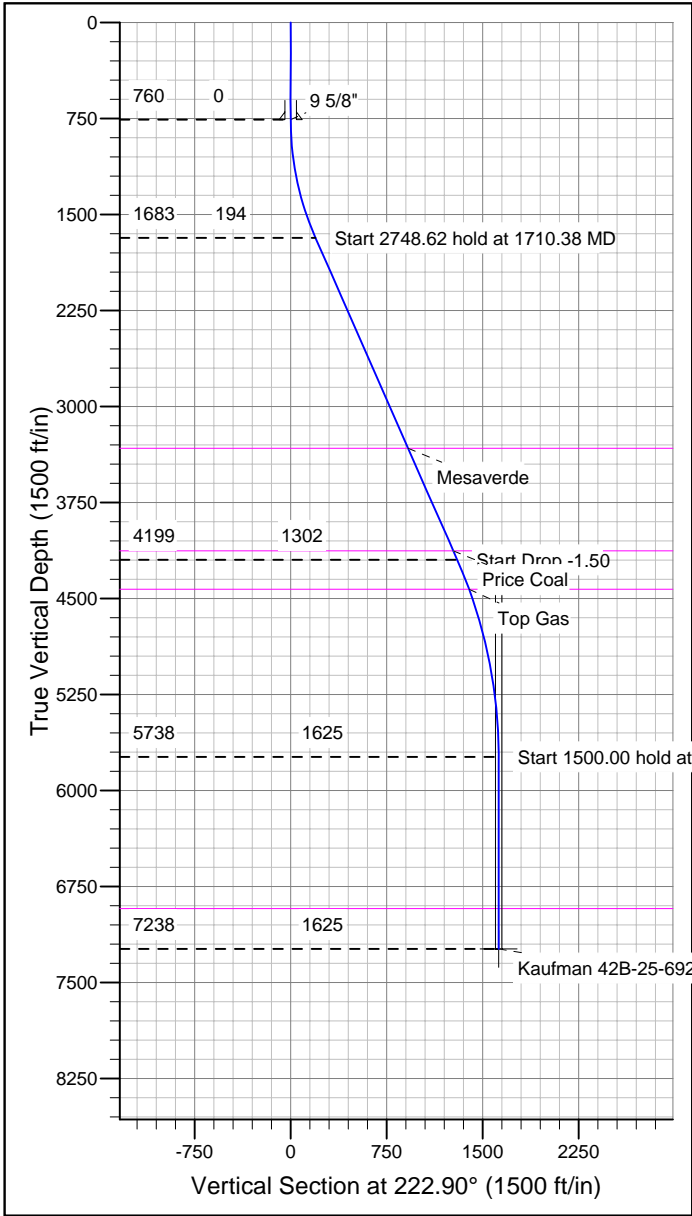
Azimuths to True North  
Magnetic North: 10.42°  
Magnetic Field  
Strength: 52432.3snT  
Dip Angle: 65.84°  
Date: 12/29/2009  
Model: BGGM2007

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   | 760.00  | 0.00  | 0.00   | 760.00  | 0.00    | 0.00    | 0.00 | 0.00   | 0.00   |                       |
| 3   | 1710.38 | 23.76 | 222.90 | 1683.38 | -142.29 | -132.23 | 2.50 | 222.90 | 194.25 |                       |
| 4   | 4159.00 | 23.76 | 222.90 | 4199.04 | -953.52 | -886.07 | 0.00 | 0.00   | 301.66 |                       |
| 5   | 6042.97 | 0.00  | 0.00   | 5738.09 | 1190.67 | 1106.45 | 1.50 | 180.00 | 625.40 |                       |
| 6   | 6042.97 | 0.00  | 0.00   | 7238.09 | 1190.67 | 1106.45 | 0.00 | 0.00   | 625.40 | Kaufman 42B-25-692 TD |

WELLBORE TARGET DETAILS

Name TVD +N/-S +E/-W Shape  
Kaufman 42B-25-692 TD 6042.97 -1106.45 Circle (Radius: 25.00)



CASING DETAILS

TVD MD Name Size  
760.00 760.00 9 5/8" 9-5/8

FORMATION TOP DETAILS

TVD Path MD Path Formation  
3328.00 3507.30 Mesaverde  
4128.00 4381.39 Price Coal  
4428.00 4705.83 Top Gas  
6923.00 7227.97 Rollins

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Kaufman 42B-25-692, True North  
Vertical (TVD) Reference: WELL @ 5786.00ft (Original Well Elev)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: WELL @ 5786.00ft (Original Well Elev)  
Calculation Method: Minimum Curvature