



**Bill Barrett Corporation**

## **Bill Barrett Corp.**

Garfield County, Colorado

MDP 6 Pad

GGU Miller Fed 34C-32-691

Wellbore #1

Survey: Surveys

## **Standard Survey Report**

29 November, 2010



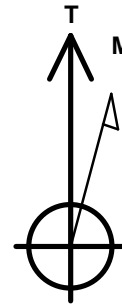
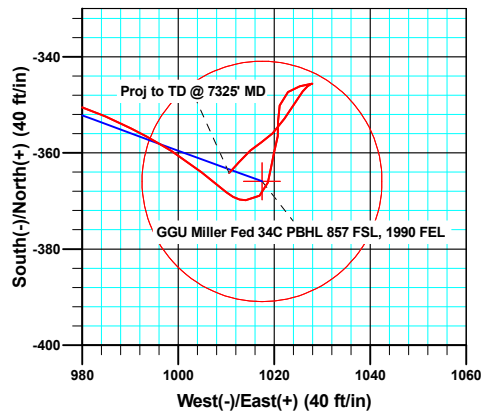
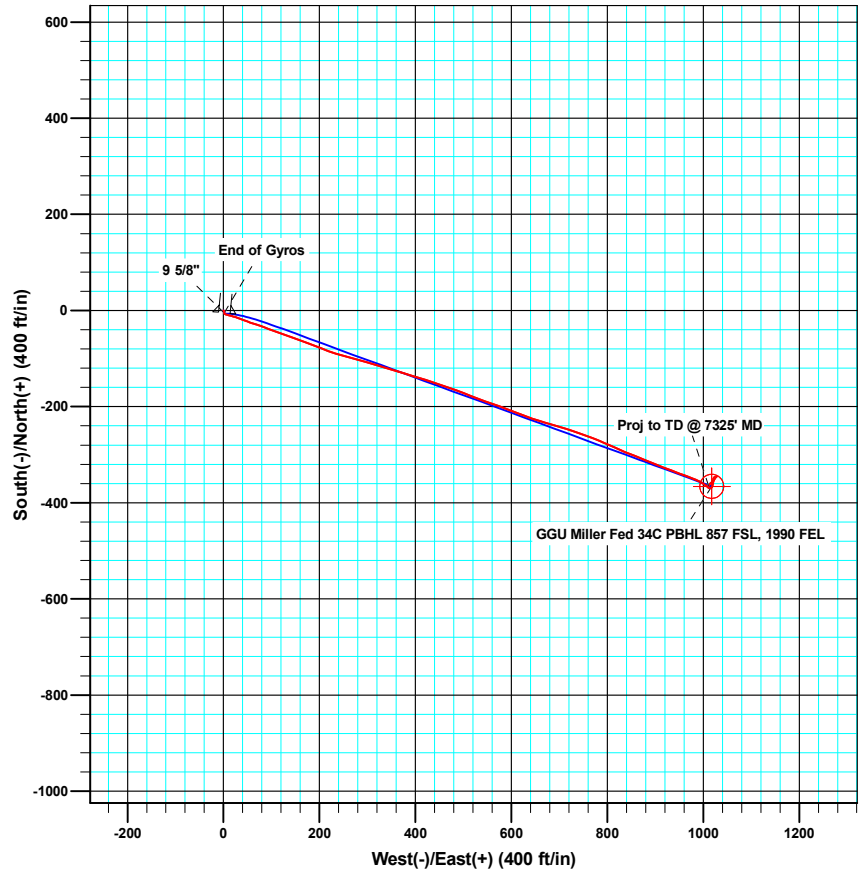
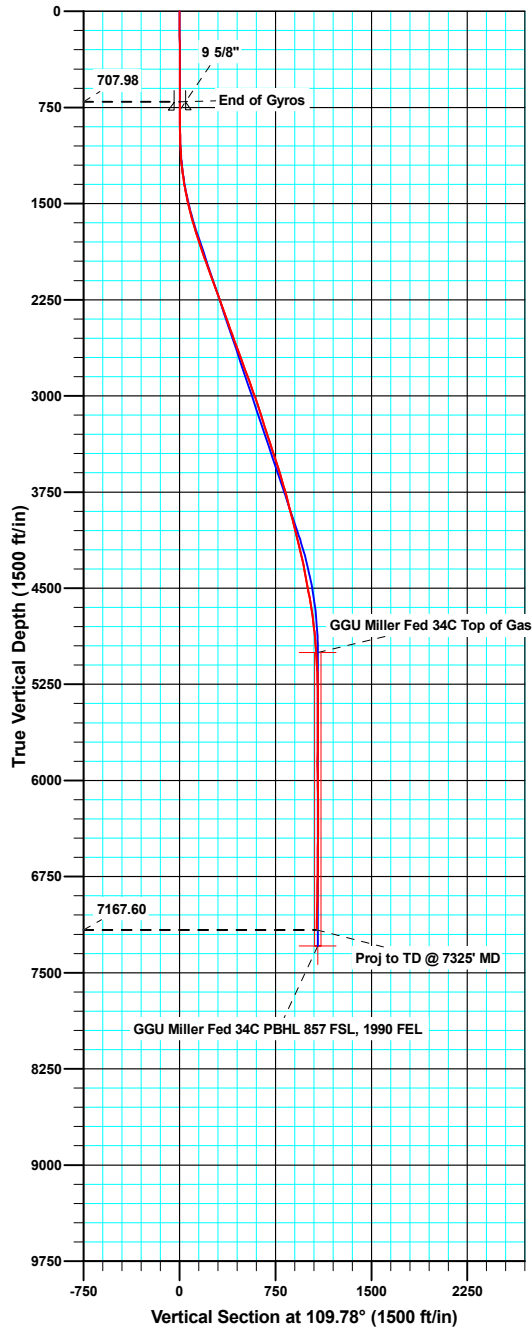


**Bill Barrett Corporation**

WELL DETAILS: GGU Miller Fed 34C-32-691

Ground Level: 6120.00

| North American Datum 1983 |       | US State Plane 1983 |            | Colorado Central Zone |                  |
|---------------------------|-------|---------------------|------------|-----------------------|------------------|
| +N/-S                     | +E/-W | Northing            | Easting    | Latitude              | Longitude        |
| 0.00                      | 0.00  | 1606600.83          | 2413279.70 | 39° 28' 49.67 N       | 107° 34' 43.73 W |



Azimuths to True North  
Magnetic North: 10.22°

Magnetic Field  
Strength: 52392.4snT  
Dip Angle: 65.83°  
Date: 10/14/2010  
Model: IGRF200510

#### ANNOTATIONS

| TVD     | MD      | Inc  | Azi    | +N/-S   | +E/-W   | VSect   | Departure | Annotation            |
|---------|---------|------|--------|---------|---------|---------|-----------|-----------------------|
| 7167.60 | 7325.00 | 2.60 | 222.50 | -364.15 | 1010.64 | 1074.24 | 1137.50   | Proj to TD @ 7325' MD |

|                  |                           |                                     |                                |
|------------------|---------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Bill Barrett Corp.        | <b>Local Co-ordinate Reference:</b> | Well GGU Miller Fed 34C-32-691 |
| <b>Project:</b>  | Garfield County, Colorado | <b>TVD Reference:</b>               | KB @ 6142.00ft                 |
| <b>Site:</b>     | MDP 6 Pad                 | <b>MD Reference:</b>                | KB @ 6142.00ft                 |
| <b>Well:</b>     | GGU Miller Fed 34C-32-691 | <b>North Reference:</b>             | True                           |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | Compass VM                     |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Garfield County, Colorado |                      |                |
| <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>                  | MDP 6 Pad |                          |                   |
| <b>Site Position:</b>        |           | <b>Northing:</b>         | 1,606,603.61 usft |
| <b>From:</b>                 | Lat/Long  | <b>Easting:</b>          | 2,413,270.17 usft |
| <b>Position Uncertainty:</b> | 0.00 ft   | <b>Slot Radius:</b>      | 1.10 ft           |
|                              |           | <b>Latitude:</b>         | 39° 28' 49.69 N   |
|                              |           | <b>Longitude:</b>        | 107° 34' 43.85 W  |
|                              |           | <b>Grid Convergence:</b> | -1.31 °           |

|                             |                           |                            |                                    |
|-----------------------------|---------------------------|----------------------------|------------------------------------|
| <b>Well</b>                 | GGU Miller Fed 34C-32-691 |                            |                                    |
| <b>Well Position</b>        | <b>+N/-S</b>              | 0.00 ft                    | <b>Northing:</b> 1,606,600.83 usft |
|                             | <b>+E/-W</b>              | 0.00 ft                    | <b>Easting:</b> 2,413,279.70 usft  |
| <b>Position Uncertainty</b> | 0.00 ft                   | <b>Wellhead Elevation:</b> | ft                                 |
|                             |                           | <b>Latitude:</b>           | 39° 28' 49.67 N                    |
|                             |                           | <b>Longitude:</b>          | 107° 34' 43.73 W                   |
|                             |                           | <b>Ground Level:</b>       | 6,120.00 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        | 10/14/10           | 10.22                  | 65.83                | 52,392                     |

|                          |                              |                   |                   |                      |      |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| <b>Design</b>            | Wellbore #1                  |                   |                   |                      |      |
| <b>Audit Notes:</b>      |                              |                   |                   |                      |      |
| <b>Version:</b>          | 1.0                          | <b>Phase:</b>     | ACTUAL            | <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              | 109.78               |      |

|                       |                |                            |                  |                    |  |
|-----------------------|----------------|----------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 11/29/10                   |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>   | <b>Tool Name</b> | <b>Description</b> |  |
| 50.00                 | 708.00         | Gyro Surveys (Wellbore #1) | MWD              | MWD - Standard     |  |
| 883.00                | 7,325.00       | Surveys (Wellbore #1)      | MWD              | MWD - Standard     |  |

|                            |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|--|
| <b>Survey</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>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> |  |
| 708.00                     | 0.39                   | 178.39             | 707.98                     | -4.79             | 1.90              | 3.40                         | 0.00                         | 0.00                        | 0.00                       |  |
| 770.80                     | 0.46                   | 185.98             | 770.78                     | -5.25             | 1.88              | 3.54                         | 0.14                         | 0.11                        | 12.08                      |  |
| <b>9 5/8"</b>              |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| 883.00                     | 0.60                   | 194.80             | 882.97                     | -6.27             | 1.68              | 3.70                         | 0.14                         | 0.12                        | 7.86                       |  |
| 976.00                     | 1.30                   | 112.00             | 975.96                     | -7.13             | 2.53              | 4.80                         | 1.46                         | 0.75                        | -89.03                     |  |
| 1,068.00                   | 2.60                   | 112.90             | 1,067.91                   | -8.34             | 5.42              | 7.92                         | 1.41                         | 1.41                        | 0.98                       |  |
| 1,160.00                   | 4.70                   | 103.50             | 1,159.72                   | -10.03            | 11.01             | 13.76                        | 2.37                         | 2.28                        | -10.22                     |  |
| 1,252.00                   | 7.30                   | 106.20             | 1,251.20                   | -12.54            | 20.29             | 23.34                        | 2.84                         | 2.83                        | 2.93                       |  |
| 1,347.00                   | 9.20                   | 111.00             | 1,345.22                   | -16.94            | 33.18             | 36.95                        | 2.13                         | 2.00                        | 5.05                       |  |
| 1,443.00                   | 11.50                  | 109.60             | 1,439.65                   | -22.91            | 49.36             | 54.20                        | 2.41                         | 2.40                        | -1.46                      |  |

|                  |                           |                                     |                                |
|------------------|---------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Bill Barrett Corp.        | <b>Local Co-ordinate Reference:</b> | Well GGU Miller Fed 34C-32-691 |
| <b>Project:</b>  | Garfield County, Colorado | <b>TVD Reference:</b>               | KB @ 6142.00ft                 |
| <b>Site:</b>     | MDP 6 Pad                 | <b>MD Reference:</b>                | KB @ 6142.00ft                 |
| <b>Well:</b>     | GGU Miller Fed 34C-32-691 | <b>North Reference:</b>             | True                           |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | Compass VM                     |

| 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) |
| 1,538.00            | 13.90           | 108.50      | 1,532.32            | -29.70     | 69.11      | 75.08                 | 2.54                  | 2.53                 | -1.16               |
| 1,633.00            | 16.00           | 110.60      | 1,624.10            | -37.93     | 92.18      | 99.58                 | 2.28                  | 2.21                 | 2.21                |
| 1,729.00            | 17.70           | 109.80      | 1,715.97            | -47.53     | 118.30     | 127.41                | 1.79                  | 1.77                 | -0.83               |
| 1,824.00            | 18.40           | 108.90      | 1,806.30            | -57.28     | 146.08     | 156.84                | 0.79                  | 0.74                 | -0.95               |
| 1,919.00            | 18.10           | 111.40      | 1,896.52            | -67.52     | 174.00     | 186.58                | 0.88                  | -0.32                | 2.63                |
| 2,015.00            | 20.20           | 111.40      | 1,987.20            | -79.01     | 203.32     | 218.06                | 2.19                  | 2.19                 | 0.00                |
| 2,110.00            | 20.20           | 106.30      | 2,076.37            | -89.60     | 234.34     | 250.83                | 1.85                  | 0.00                 | -5.37               |
| 2,205.00            | 20.10           | 104.90      | 2,165.55            | -98.40     | 265.85     | 283.47                | 0.52                  | -0.11                | -1.47               |
| 2,300.00            | 20.00           | 107.20      | 2,254.80            | -107.40    | 297.15     | 315.96                | 0.84                  | -0.11                | 2.42                |
| 2,396.00            | 19.80           | 105.60      | 2,345.07            | -116.63    | 328.49     | 348.58                | 0.60                  | -0.21                | -1.67               |
| 2,491.00            | 20.30           | 106.70      | 2,434.31            | -125.69    | 359.77     | 381.08                | 0.66                  | 0.53                 | 1.16                |
| 2,586.00            | 19.10           | 107.70      | 2,523.75            | -135.15    | 390.37     | 413.07                | 1.31                  | -1.26                | 1.05                |
| 2,682.00            | 20.60           | 107.50      | 2,614.04            | -145.01    | 421.44     | 445.64                | 1.56                  | 1.56                 | -0.21               |
| 2,777.00            | 20.60           | 108.40      | 2,702.97            | -155.31    | 453.23     | 479.05                | 0.33                  | 0.00                 | 0.95                |
| 2,872.00            | 20.40           | 109.10      | 2,791.95            | -166.00    | 484.74     | 512.32                | 0.33                  | -0.21                | 0.74                |
| 2,968.00            | 19.60           | 112.00      | 2,882.16            | -177.51    | 515.48     | 545.14                | 1.33                  | -0.83                | 3.02                |
| 3,063.00            | 19.80           | 110.10      | 2,971.60            | -189.01    | 545.36     | 577.15                | 0.71                  | 0.21                 | -2.00               |
| 3,158.00            | 18.20           | 109.30      | 3,061.42            | -199.44    | 574.48     | 608.08                | 1.71                  | -1.68                | -0.84               |
| 3,254.00            | 17.80           | 110.20      | 3,152.73            | -209.46    | 602.40     | 637.74                | 0.51                  | -0.42                | 0.94                |
| 3,349.00            | 17.70           | 111.30      | 3,243.20            | -219.72    | 629.48     | 666.70                | 0.37                  | -0.11                | 1.16                |
| 3,444.00            | 17.70           | 107.40      | 3,333.71            | -229.29    | 656.72     | 695.56                | 1.25                  | 0.00                 | -4.11               |
| 3,540.00            | 18.70           | 106.10      | 3,424.91            | -237.92    | 685.43     | 725.50                | 1.12                  | 1.04                 | -1.35               |
| 3,635.00            | 18.50           | 107.20      | 3,514.94            | -246.60    | 714.46     | 755.76                | 0.43                  | -0.21                | 1.16                |
| 3,731.00            | 17.10           | 109.80      | 3,606.35            | -255.89    | 742.29     | 785.09                | 1.68                  | -1.46                | 2.71                |
| 3,826.00            | 16.90           | 109.80      | 3,697.20            | -265.29    | 768.42     | 812.86                | 0.21                  | -0.21                | 0.00                |
| 3,921.00            | 14.20           | 114.00      | 3,788.71            | -274.71    | 792.07     | 838.30                | 3.08                  | -2.84                | 4.42                |
| 4,017.00            | 14.60           | 114.50      | 3,881.70            | -284.52    | 813.83     | 862.10                | 0.44                  | 0.42                 | 0.52                |
| 4,112.00            | 15.00           | 112.90      | 3,973.55            | -294.27    | 836.05     | 886.31                | 0.60                  | 0.42                 | -1.68               |
| 4,208.00            | 14.20           | 111.20      | 4,066.45            | -303.36    | 858.48     | 910.49                | 0.95                  | -0.83                | -1.77               |
| 4,302.00            | 13.50           | 112.10      | 4,157.71            | -311.66    | 879.39     | 932.97                | 0.78                  | -0.74                | 0.96                |
| 4,398.00            | 12.70           | 111.40      | 4,251.21            | -319.73    | 899.60     | 954.72                | 0.85                  | -0.83                | -0.73               |
| 4,494.00            | 10.50           | 112.20      | 4,345.25            | -326.88    | 917.52     | 974.01                | 2.30                  | -2.29                | 0.83                |
| 4,589.00            | 11.00           | 111.30      | 4,438.58            | -333.45    | 933.98     | 991.72                | 0.56                  | 0.53                 | -0.95               |
| 4,684.00            | 10.50           | 109.50      | 4,531.91            | -339.63    | 950.59     | 1,009.44              | 0.63                  | -0.53                | -1.89               |
| 4,780.00            | 8.90            | 110.80      | 4,626.54            | -345.18    | 965.78     | 1,025.61              | 1.68                  | -1.67                | 1.35                |
| 4,875.00            | 8.00            | 110.00      | 4,720.50            | -350.06    | 978.86     | 1,039.57              | 0.96                  | -0.95                | -0.84               |
| 4,970.00            | 6.90            | 116.90      | 4,814.70            | -354.90    | 990.16     | 1,051.84              | 1.49                  | -1.16                | 7.26                |
| 5,066.00            | 4.80            | 122.70      | 4,910.20            | -359.68    | 998.68     | 1,061.48              | 2.27                  | -2.19                | 6.04                |
| 5,161.00            | 4.40            | 127.90      | 5,004.89            | -364.06    | 1,004.90   | 1,068.82              | 0.61                  | -0.42                | 5.47                |
| 5,256.00            | 3.50            | 129.00      | 5,099.67            | -368.13    | 1,010.03   | 1,075.02              | 0.95                  | -0.95                | 1.16                |
| 5,352.00            | 2.10            | 85.00       | 5,195.56            | -369.82    | 1,014.06   | 1,079.38              | 2.57                  | -1.46                | -45.83              |
| 5,447.00            | 1.70            | 55.90       | 5,290.51            | -368.88    | 1,016.96   | 1,081.79              | 1.08                  | -0.42                | -30.63              |
| 5,543.00            | 2.40            | 16.40       | 5,386.45            | -366.15    | 1,018.71   | 1,082.51              | 1.60                  | 0.73                 | -41.15              |

|                  |                           |                                     |                                |
|------------------|---------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Bill Barrett Corp.        | <b>Local Co-ordinate Reference:</b> | Well GGU Miller Fed 34C-32-691 |
| <b>Project:</b>  | Garfield County, Colorado | <b>TVD Reference:</b>               | KB @ 6142.00ft                 |
| <b>Site:</b>     | MDP 6 Pad                 | <b>MD Reference:</b>                | KB @ 6142.00ft                 |
| <b>Well:</b>     | GGU Miller Fed 34C-32-691 | <b>North Reference:</b>             | True                           |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | Compass VM                     |

| 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) |  |
| 5,638.00            | 1.50            | 4.70        | 5,481.40            | -363.00    | 1,019.37   | 1,082.07              | 1.03                  | -0.95                | -12.32              |  |
| 5,733.00            | 2.20            | 16.30       | 5,576.35            | -360.01    | 1,019.99   | 1,081.64              | 0.83                  | 0.74                 | 12.21               |  |
| 5,829.00            | 2.10            | 7.50        | 5,672.28            | -356.50    | 1,020.74   | 1,081.15              | 0.36                  | -0.10                | -9.17               |  |
| 5,924.00            | 1.70            | 353.90      | 5,767.23            | -353.37    | 1,020.81   | 1,080.17              | 0.63                  | -0.42                | -14.32              |  |
| 6,020.00            | 2.30            | 14.10       | 5,863.17            | -350.09    | 1,021.13   | 1,079.36              | 0.96                  | 0.63                 | 21.04               |  |
| 6,115.00            | 1.90            | 54.50       | 5,958.11            | -347.33    | 1,022.88   | 1,080.06              | 1.58                  | -0.42                | 42.53               |  |
| 6,209.00            | 1.50            | 76.60       | 6,052.07            | -346.14    | 1,025.34   | 1,081.98              | 0.81                  | -0.43                | 23.51               |  |
| 6,305.00            | 0.80            | 79.00       | 6,148.05            | -345.72    | 1,027.22   | 1,083.61              | 0.73                  | -0.73                | 2.50                |  |
| 6,400.00            | 0.10            | 114.40      | 6,243.05            | -345.62    | 1,027.95   | 1,084.26              | 0.76                  | -0.74                | 37.26               |  |
| 6,496.00            | 0.40            | 267.00      | 6,339.05            | -345.68    | 1,027.69   | 1,084.04              | 0.51                  | 0.31                 | 158.96              |  |
| 6,591.00            | 0.70            | 224.50      | 6,434.04            | -346.11    | 1,026.95   | 1,083.49              | 0.51                  | 0.32                 | -44.74              |  |
| 6,686.00            | 1.10            | 218.10      | 6,529.03            | -347.24    | 1,025.98   | 1,082.96              | 0.43                  | 0.42                 | -6.74               |  |
| 6,877.00            | 3.00            | 213.10      | 6,719.90            | -352.87    | 1,022.12   | 1,081.23              | 1.00                  | 0.99                 | -2.62               |  |
| 6,973.00            | 1.70            | 227.80      | 6,815.82            | -355.93    | 1,019.70   | 1,079.98              | 1.48                  | -1.35                | 15.31               |  |
| 7,068.00            | 1.90            | 235.50      | 6,910.77            | -357.77    | 1,017.35   | 1,078.40              | 0.33                  | 0.21                 | 8.11                |  |
| 7,163.00            | 1.60            | 230.90      | 7,005.73            | -359.50    | 1,015.03   | 1,076.80              | 0.35                  | -0.32                | -4.84               |  |
| 7,259.00            | 2.50            | 220.10      | 7,101.66            | -361.94    | 1,012.64   | 1,075.38              | 1.02                  | 0.94                 | -11.25              |  |
| 7,278.00            | 2.60            | 222.50      | 7,120.64            | -362.58    | 1,012.08   | 1,075.07              | 0.77                  | 0.53                 | 12.63               |  |
| 7,325.00            | 2.60            | 222.50      | 7,167.60            | -364.15    | 1,010.64   | 1,074.24              | 0.00                  | 0.00                 | 0.00                |  |

| Casing Points       |                     |        |  |                      |                    |
|---------------------|---------------------|--------|--|----------------------|--------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name   |  | Casing Diameter (ft) | Hole Diameter (ft) |
| 770.80              | 770.78              | 9 5/8" |  | 0.80                 | 1.02               |

| Survey Annotations  |                     |                   |            |                       |  |
|---------------------|---------------------|-------------------|------------|-----------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment               |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                       |  |
| 7,325.00            | 7,167.60            | -364.15           | 1,010.64   | Proj to TD @ 7325' MD |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_