

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Kaufman 6 Pad

Kaufman 21B-24-692

Wellbore #1

Design: Wellbore #1

Standard Survey Report

03 November, 2011



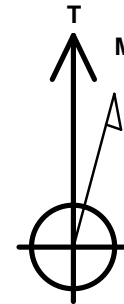
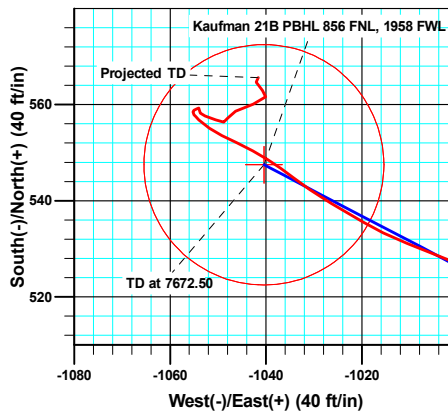
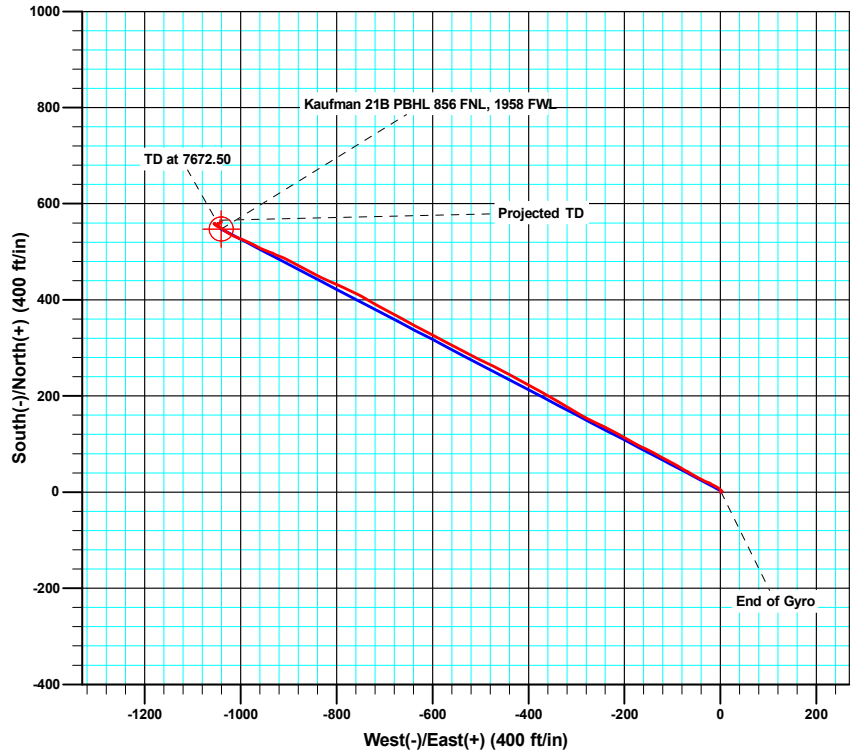
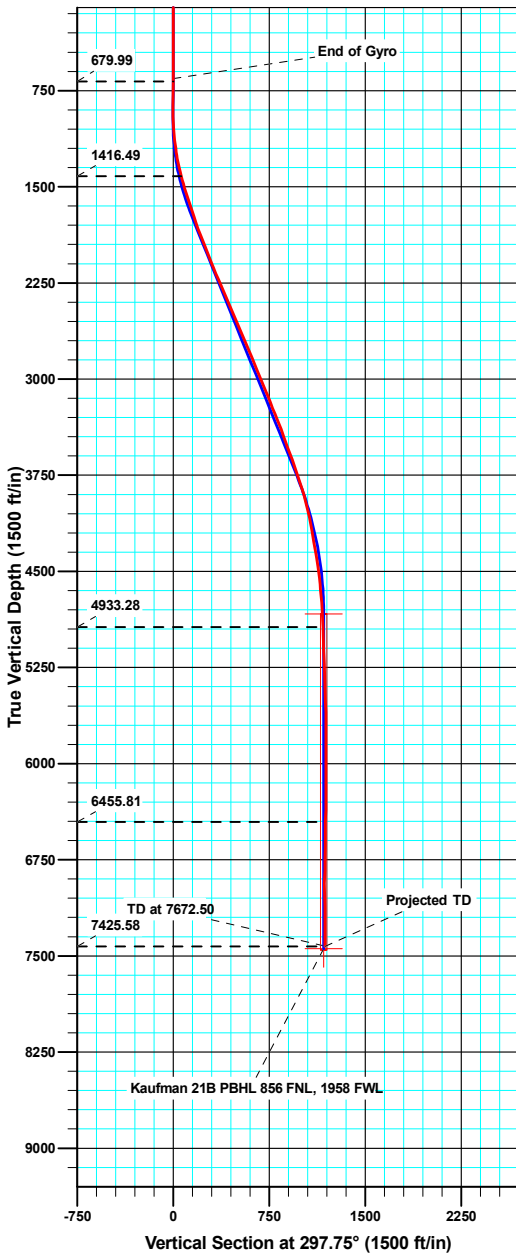
WELL DETAILS: Kaufman 21B-24-692



North American Datum 1983 US State Plane 1983 Colorado Central Zone
 +N/-S +E/-W Northing ' Easting Latitude Longitude
 0.00 0.00 1619794.65 2403568.30 39.516061 -107.614297

Ground Level: 5771.00

GL @ 5771.00ft (Original Well Elev)



Azimuths to True North
 Magnetic North: 10.29°

Magnetic Field
 Strength: 52446.1snT
 Dip Angle: 65.87°
 Date: 06/02/2010
 Model: IGRF200510

ANNOTATIONS

| TVD | MD | Inc | Azi | +N/-S | +E/-W | VSect | Departure | Annotation |
|---------|---------|-------|--------|--------|----------|---------|-----------|--------------|
| 679.99 | 680.00 | 0.47 | 96.24 | 1.13 | 1.16 | -0.50 | 2.57 | End of Gyro |
| 1416.49 | 1422.00 | 14.30 | 298.90 | 33.56 | -52.52 | 62.10 | 71.12 | As of Oct 31 |
| 4933.28 | 5132.00 | 2.30 | 307.80 | 544.81 | -1034.24 | 1168.96 | 1178.86 | As of Nov 1 |
| 6455.81 | 6655.00 | 1.80 | 107.60 | 556.82 | -1050.52 | 1188.96 | 1210.69 | As of Nov 2 |
| 7425.58 | 7625.00 | 0.30 | 26.40 | 565.62 | -1041.57 | 1185.14 | 1228.09 | Projected TD |



| | | | |
|------------------|-----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Kaufman 21B-24-692 |
| Project: | Garfield County, Colorado [NAD83] | TVD Reference: | GL @ 5771.00ft (Original Well Elev) |
| Site: | Kaufman 6 Pad | MD Reference: | GL @ 5771.00ft (Original Well Elev) |
| Well: | Kaufman 21B-24-692 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Compass VM |

| | | | |
|--------------------|-----------------------------------|----------------------|----------------|
| Project | Garfield County, Colorado [NAD83] | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | | |
|------------------------------|---------------|---------------------|-------------------|--------------------------|-------------|
| Site | Kaufman 6 Pad | | | | |
| Site Position: | | Northing: | 1,619,793.95 usft | Latitude: | 39.516058 |
| From: | Lat/Long | Easting: | 2,403,552.20 usft | Longitude: | -107.614354 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 0.00 ft | Grid Convergence: | -1.33 ° |

| | | | | | | |
|-----------------------------|--------------------|---------|----------------------------|-------------------|----------------------|-------------|
| Well | Kaufman 21B-24-692 | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 1,619,794.65 usft | Latitude: | 39.516061 |
| | +E/-W | 0.00 ft | Easting: | 2,403,568.30 usft | Longitude: | -107.614297 |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | ft | Ground Level: | 5,771.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 06/02/10 | 10.29 | 65.87 | 52,446 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| Design | Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 297.75 | |

| | | | | | |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 11/03/11 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 100.00 | 680.00 | Survey #1 (Wellbore #1) | MWD | MWD - Standard | |
| 859.00 | 7,625.00 | MWD (Wellbore #1) | MWD | MWD - Standard | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|------|
| 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 | 0.00 |
| 100.00 | 0.14 | 298.24 | 100.00 | 0.06 | -0.11 | 0.12 | 0.14 | 0.14 | 0.00 | |
| 200.00 | 0.10 | 313.97 | 200.00 | 0.18 | -0.28 | 0.33 | 0.05 | -0.04 | 15.73 | |
| 300.00 | 0.18 | 353.94 | 300.00 | 0.39 | -0.36 | 0.50 | 0.12 | 0.08 | 39.97 | |
| 400.00 | 0.16 | 23.79 | 400.00 | 0.68 | -0.32 | 0.60 | 0.09 | -0.02 | 29.85 | |
| 500.00 | 0.39 | 53.77 | 500.00 | 1.01 | 0.01 | 0.46 | 0.26 | 0.23 | 29.98 | |
| 600.00 | 0.35 | 94.67 | 600.00 | 1.18 | 0.59 | 0.03 | 0.26 | -0.04 | 40.90 | |
| 680.00 | 0.47 | 96.24 | 679.99 | 1.13 | 1.16 | -0.50 | 0.15 | 0.15 | 1.96 | |
| 859.00 | 0.80 | 99.20 | 858.98 | 0.85 | 3.13 | -2.37 | 0.19 | 0.18 | 1.65 | |
| 952.00 | 1.40 | 337.00 | 951.97 | 1.79 | 3.32 | -2.11 | 2.09 | 0.65 | -131.40 | |

| | | | |
|------------------|-----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Kaufman 21B-24-692 |
| Project: | Garfield County, Colorado [NAD83] | TVD Reference: | GL @ 5771.00ft (Original Well Elev) |
| Site: | Kaufman 6 Pad | MD Reference: | GL @ 5771.00ft (Original Well Elev) |
| Well: | Kaufman 21B-24-692 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | 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) |
| 1,044.00 | 4.00 | 311.40 | 1,043.87 | 4.95 | 0.48 | 1.88 | 3.05 | 2.83 | -27.83 |
| 1,136.00 | 6.80 | 304.70 | 1,135.45 | 10.17 | -6.41 | 10.41 | 3.11 | 3.04 | -7.28 |
| 1,232.00 | 8.80 | 293.60 | 1,230.56 | 16.35 | -17.81 | 23.38 | 2.60 | 2.08 | -11.56 |
| 1,327.00 | 12.00 | 295.90 | 1,323.99 | 23.57 | -33.36 | 40.50 | 3.40 | 3.37 | 2.42 |
| 1,422.00 | 14.30 | 298.90 | 1,416.49 | 33.56 | -52.52 | 62.10 | 2.52 | 2.42 | 3.16 |
| 1,518.00 | 16.50 | 300.80 | 1,509.04 | 46.27 | -74.61 | 87.57 | 2.35 | 2.29 | 1.98 |
| 1,613.00 | 18.20 | 298.00 | 1,599.72 | 60.14 | -99.30 | 115.88 | 1.99 | 1.79 | -2.95 |
| 1,709.00 | 18.50 | 298.60 | 1,690.84 | 74.47 | -125.91 | 146.11 | 0.37 | 0.31 | 0.63 |
| 1,804.00 | 19.60 | 296.60 | 1,780.63 | 88.82 | -153.39 | 177.11 | 1.35 | 1.16 | -2.11 |
| 1,899.00 | 21.40 | 298.80 | 1,869.61 | 104.31 | -182.83 | 210.37 | 2.06 | 1.89 | 2.32 |
| 1,994.00 | 21.80 | 298.80 | 1,957.94 | 121.16 | -213.48 | 245.34 | 0.42 | 0.42 | 0.00 |
| 2,089.00 | 21.20 | 295.10 | 2,046.34 | 136.94 | -244.49 | 280.13 | 1.56 | -0.63 | -3.89 |
| 2,184.00 | 22.60 | 297.80 | 2,134.48 | 152.74 | -276.20 | 315.55 | 1.81 | 1.47 | 2.84 |
| 2,279.00 | 23.60 | 300.30 | 2,221.86 | 170.85 | -308.76 | 352.80 | 1.47 | 1.05 | 2.63 |
| 2,374.00 | 23.50 | 300.80 | 2,308.95 | 190.14 | -341.45 | 390.71 | 0.24 | -0.11 | 0.53 |
| 2,469.00 | 23.40 | 298.90 | 2,396.11 | 208.96 | -374.24 | 428.49 | 0.80 | -0.11 | -2.00 |
| 2,564.00 | 23.60 | 298.60 | 2,483.23 | 227.18 | -407.45 | 466.37 | 0.25 | 0.21 | -0.32 |
| 2,659.00 | 22.90 | 297.90 | 2,570.51 | 244.93 | -440.48 | 503.86 | 0.79 | -0.74 | -0.74 |
| 2,754.00 | 23.40 | 296.70 | 2,657.86 | 262.06 | -473.67 | 541.21 | 0.72 | 0.53 | -1.26 |
| 2,849.00 | 22.80 | 296.20 | 2,745.25 | 278.66 | -507.04 | 578.47 | 0.66 | -0.63 | -0.53 |
| 2,944.00 | 21.90 | 297.90 | 2,833.11 | 295.08 | -539.21 | 614.59 | 1.17 | -0.95 | 1.79 |
| 3,039.00 | 22.60 | 296.60 | 2,921.04 | 311.54 | -571.19 | 650.56 | 0.90 | 0.74 | -1.37 |
| 3,134.00 | 22.90 | 298.20 | 3,008.65 | 328.45 | -603.80 | 687.29 | 0.72 | 0.32 | 1.68 |
| 3,229.00 | 22.50 | 298.60 | 3,096.29 | 345.89 | -636.05 | 723.95 | 0.45 | -0.42 | 0.42 |
| 3,324.00 | 21.30 | 298.20 | 3,184.43 | 362.74 | -667.22 | 759.38 | 1.27 | -1.26 | -0.42 |
| 3,419.00 | 22.60 | 297.80 | 3,272.54 | 379.41 | -698.57 | 794.89 | 1.38 | 1.37 | -0.42 |
| 3,514.00 | 21.30 | 301.00 | 3,360.66 | 396.81 | -729.51 | 830.37 | 1.86 | -1.37 | 3.37 |
| 3,609.00 | 20.00 | 295.90 | 3,449.56 | 412.79 | -758.92 | 863.84 | 2.33 | -1.37 | -5.37 |
| 3,704.00 | 19.70 | 294.40 | 3,538.91 | 426.51 | -788.12 | 896.06 | 0.62 | -0.32 | -1.58 |
| 3,800.00 | 20.10 | 294.40 | 3,629.18 | 440.00 | -817.88 | 928.68 | 0.42 | 0.42 | 0.00 |
| 3,895.00 | 19.10 | 297.10 | 3,718.68 | 453.83 | -846.58 | 960.52 | 1.42 | -1.05 | 2.84 |
| 3,990.00 | 18.30 | 298.30 | 3,808.66 | 467.98 | -873.55 | 990.98 | 0.93 | -0.84 | 1.26 |
| 4,085.00 | 16.20 | 297.50 | 3,899.38 | 481.17 | -898.44 | 1,019.15 | 2.22 | -2.21 | -0.84 |
| 4,179.00 | 13.60 | 293.10 | 3,990.22 | 491.57 | -920.24 | 1,043.28 | 3.01 | -2.77 | -4.68 |
| 4,275.00 | 10.90 | 291.30 | 4,084.02 | 499.29 | -939.08 | 1,063.55 | 2.84 | -2.81 | -1.88 |
| 4,370.00 | 11.10 | 293.70 | 4,177.28 | 506.23 | -955.82 | 1,081.60 | 0.53 | 0.21 | 2.53 |
| 4,465.00 | 9.90 | 297.50 | 4,270.69 | 513.68 | -971.44 | 1,098.89 | 1.46 | -1.26 | 4.00 |
| 4,561.00 | 9.90 | 295.10 | 4,365.26 | 520.99 | -986.24 | 1,115.39 | 0.43 | 0.00 | -2.50 |
| 4,656.00 | 7.60 | 291.60 | 4,459.15 | 526.77 | -999.47 | 1,129.79 | 2.48 | -2.42 | -3.68 |
| 4,751.00 | 6.90 | 291.60 | 4,553.39 | 531.18 | -1,010.62 | 1,141.71 | 0.74 | -0.74 | 0.00 |
| 4,846.00 | 5.50 | 300.90 | 4,647.83 | 535.62 | -1,019.83 | 1,151.93 | 1.81 | -1.47 | 9.79 |
| 4,941.00 | 3.70 | 300.30 | 4,742.52 | 539.50 | -1,026.39 | 1,159.54 | 1.90 | -1.89 | -0.63 |
| 5,036.00 | 2.70 | 305.00 | 4,837.37 | 542.33 | -1,030.87 | 1,164.82 | 1.09 | -1.05 | 4.95 |

| | | | |
|------------------|-----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Kaufman 21B-24-692 |
| Project: | Garfield County, Colorado [NAD83] | TVD Reference: | GL @ 5771.00ft (Original Well Elev) |
| Site: | Kaufman 6 Pad | MD Reference: | GL @ 5771.00ft (Original Well Elev) |
| Well: | Kaufman 21B-24-692 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | 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) | |
| 5,132.00 | 2.30 | 307.80 | 4,933.28 | 544.81 | -1,034.24 | 1,168.96 | 0.44 | -0.42 | 2.92 | |
| 5,227.00 | 1.60 | 304.50 | 5,028.23 | 546.73 | -1,036.84 | 1,172.16 | 0.75 | -0.74 | -3.47 | |
| 5,322.00 | 2.50 | 301.90 | 5,123.16 | 548.58 | -1,039.69 | 1,175.54 | 0.95 | 0.95 | -2.74 | |
| 5,417.00 | 1.80 | 299.50 | 5,218.10 | 550.41 | -1,042.75 | 1,179.10 | 0.74 | -0.74 | -2.53 | |
| 5,513.00 | 2.50 | 294.50 | 5,314.03 | 552.02 | -1,045.97 | 1,182.70 | 0.75 | 0.73 | -5.21 | |
| 5,608.00 | 1.80 | 298.80 | 5,408.96 | 553.60 | -1,049.16 | 1,186.26 | 0.76 | -0.74 | 4.53 | |
| 5,703.00 | 1.90 | 301.00 | 5,503.91 | 555.13 | -1,051.82 | 1,189.32 | 0.13 | 0.11 | 2.32 | |
| 5,799.00 | 1.40 | 317.20 | 5,599.87 | 556.81 | -1,053.98 | 1,192.01 | 0.71 | -0.52 | 16.88 | |
| 5,893.00 | 0.40 | 320.30 | 5,693.86 | 557.90 | -1,054.97 | 1,193.40 | 1.06 | -1.06 | 3.30 | |
| 5,988.00 | 0.40 | 359.30 | 5,788.86 | 558.49 | -1,055.18 | 1,193.87 | 0.28 | 0.00 | 41.05 | |
| 6,083.00 | 0.20 | 84.00 | 5,883.86 | 558.84 | -1,055.02 | 1,193.89 | 0.45 | -0.21 | 89.16 | |
| 6,179.00 | 0.60 | 53.00 | 5,979.85 | 559.16 | -1,054.46 | 1,193.53 | 0.46 | 0.42 | -32.29 | |
| 6,274.00 | 0.20 | 145.10 | 6,074.85 | 559.32 | -1,053.96 | 1,193.17 | 0.67 | -0.42 | 96.95 | |
| 6,369.00 | 0.40 | 175.90 | 6,169.85 | 558.85 | -1,053.84 | 1,192.85 | 0.26 | 0.21 | 32.42 | |
| 6,462.00 | 0.40 | 149.10 | 6,262.85 | 558.25 | -1,053.65 | 1,192.40 | 0.20 | 0.00 | -28.82 | |
| 6,560.00 | 1.00 | 113.90 | 6,360.84 | 557.61 | -1,052.70 | 1,191.26 | 0.73 | 0.61 | -35.92 | |
| 6,655.00 | 1.80 | 107.60 | 6,455.81 | 556.82 | -1,050.52 | 1,188.96 | 0.86 | 0.84 | -6.63 | |
| 6,751.00 | 0.30 | 91.30 | 6,551.79 | 556.36 | -1,048.83 | 1,187.25 | 1.58 | -1.56 | -16.98 | |
| 6,846.00 | 1.30 | 36.50 | 6,646.78 | 557.22 | -1,047.94 | 1,186.86 | 1.21 | 1.05 | -57.68 | |
| 6,942.00 | 1.30 | 59.50 | 6,742.76 | 558.65 | -1,046.35 | 1,186.13 | 0.54 | 0.00 | 23.96 | |
| 7,037.00 | 3.50 | 70.80 | 6,837.67 | 560.15 | -1,042.69 | 1,183.58 | 2.36 | 2.32 | 11.89 | |
| 7,132.00 | 0.70 | 346.40 | 6,932.61 | 561.67 | -1,040.08 | 1,181.98 | 3.69 | -2.95 | -88.84 | |
| 7,227.00 | 1.10 | 325.60 | 7,027.60 | 562.99 | -1,040.73 | 1,183.17 | 0.54 | 0.42 | -21.89 | |
| 7,323.00 | 0.50 | 314.40 | 7,123.59 | 564.04 | -1,041.55 | 1,184.39 | 0.64 | -0.63 | -11.67 | |
| 7,418.00 | 0.40 | 336.10 | 7,218.58 | 564.63 | -1,041.98 | 1,185.05 | 0.21 | -0.11 | 22.84 | |
| 7,443.00 | 0.30 | 26.40 | 7,243.58 | 564.77 | -1,041.99 | 1,185.12 | 1.24 | -0.40 | 201.20 | |
| 7,625.00 | 0.30 | 26.40 | 7,425.58 | 565.62 | -1,041.57 | 1,185.14 | 0.00 | 0.00 | 0.00 | |

| Design Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|--------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 680.00 | 679.99 | 1.13 | 1.16 | End of Gyro | |
| 1,422.00 | 1,416.49 | 33.56 | -52.52 | As of Oct 31 | |
| 5,132.00 | 4,933.28 | 544.81 | -1,034.24 | As of Nov 1 | |
| 6,655.00 | 6,455.81 | 556.82 | -1,050.52 | As of Nov 2 | |
| 7,625.00 | 7,425.58 | 565.62 | -1,041.57 | Projected TD | |

Checked By: _____ Approved By: _____ Date: _____