

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

Kaufman 7 Pad

Kaufman 23B-24-692

Wellbore #1

Design: Wellbore #1

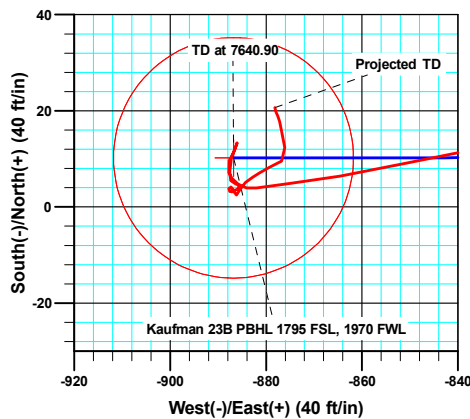
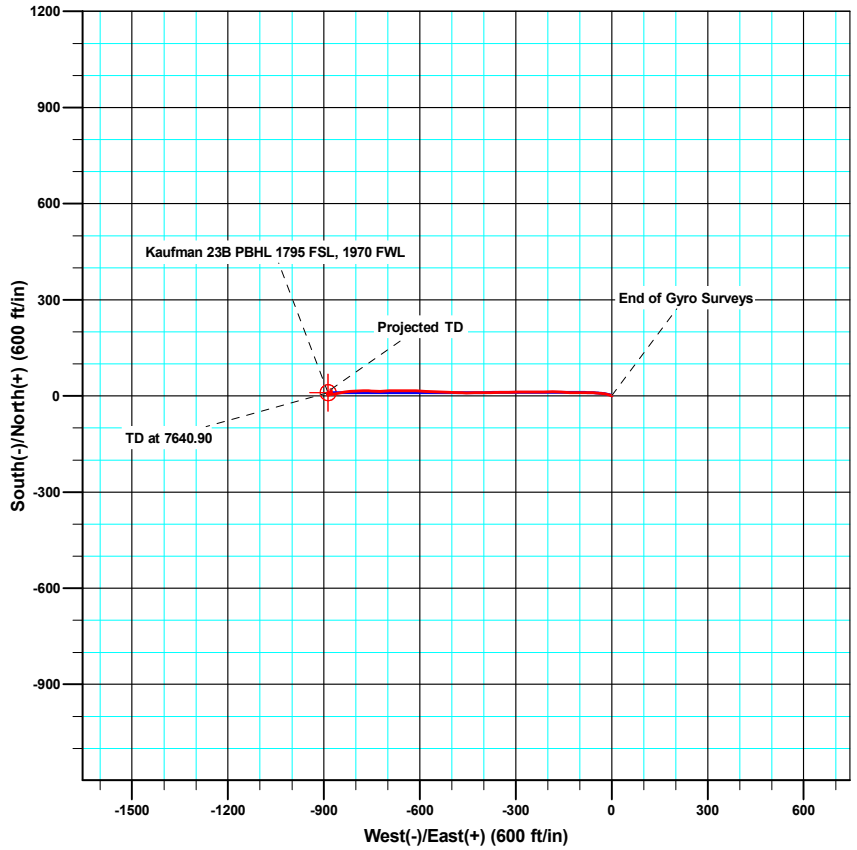
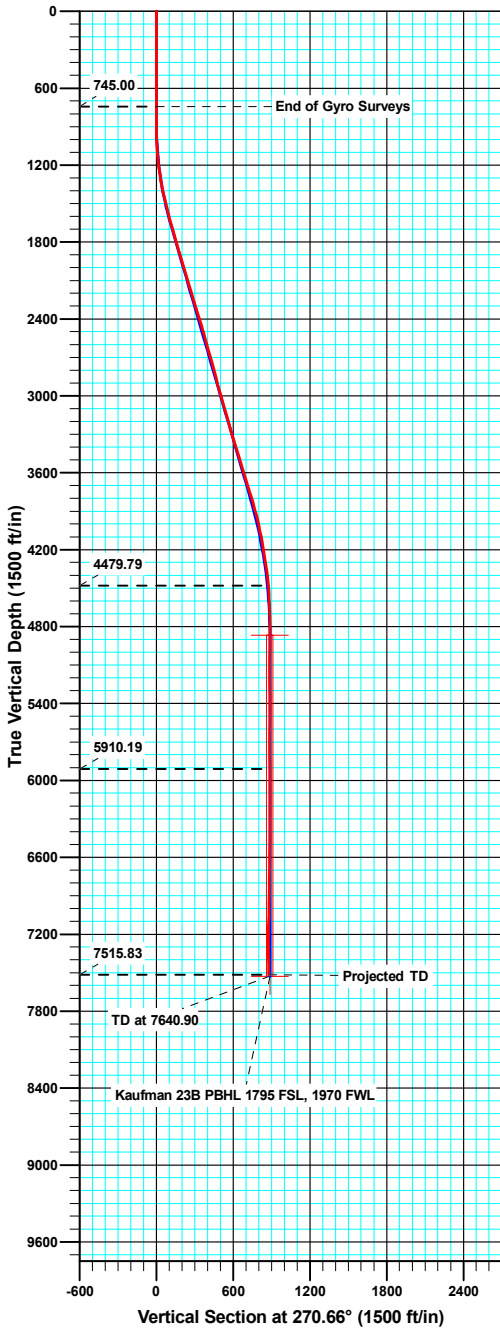
Standard Survey Report

16 August, 2011

Well Details: Kaufman 23B-24-692



Ground Level: 5843.00
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1617738.92 2403401.63 39.510408 -107.614718



Azimuths to True North
 Magnetic North: 10.20°

Magnetic Field
 Strength: 52320.6snT
 Dip Angle: 65.83°
 Date: 05/03/2011
 Model: IGRF2010

ANNOTATIONS

| TVD | MD | Inc | Azi | +N/-S | +E/-W | Vsect | Departure | Annotation |
|---------|---------|------|--------|-------|---------|--------|-----------|---------------------|
| 745.00 | 745.00 | 0.32 | 32.00 | 0.69 | 0.10 | -0.09 | 2.38 | End of Gyro Surveys |
| 4479.79 | 4596.00 | 5.60 | 261.70 | 4.90 | -875.06 | 875.06 | 881.40 | As of Aug 9 |
| 5910.19 | 6027.00 | 0.90 | 263.40 | 3.15 | -887.01 | 886.99 | 915.94 | As of Aug. 10 |
| 7515.83 | 7633.00 | 1.30 | 340.60 | 20.66 | -878.20 | 878.38 | 947.20 | Projected TD |



Sharewell Survey Report

| | |
|---|---|
| Company: Bill Barrett Corp. | Local Co-ordinate Reference: Well Kaufman 23B-24-692 |
| Project: Garfield County, Colorado [NAD83] | TVD Reference: KB @ 5866.00ft |
| Site: Kaufman 7 Pad | MD Reference: KB @ 5866.00ft |
| Well: Kaufman 23B-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 7 Pad | | | | | |
| Site Position: | | Northing: | 1,617,736.60 usft | Latitude: | 39.510401 |
| From: Lat/Long | | Easting: | 2,403,391.98 usft | Longitude: | -107.614752 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 1.10 ft | Grid Convergence: | -1.33 ° |

| | | | | | | |
|--------------------------------|--------------|---------|----------------------------|-------------------|----------------------|-------------|
| Well Kaufman 23B-24-692 | | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 1,617,738.92 usft | Latitude: | 39.510408 |
| | +E/-W | 0.00 ft | Easting: | 2,403,401.63 usft | Longitude: | -107.614718 |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | ft | Ground Level: | 5,843.00 ft |

| | | | | | |
|-----------------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore Wellbore #1 | | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | IGRF2010 | 05/03/11 | (°) | (°) | (nT) |
| | | | 10.20 | 65.83 | 52,321 |

| | | | | | |
|---------------------------|-------------------------|---------------|--------------|----------------------|------|
| Design Wellbore #1 | | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction | |
| | (ft) | (ft) | (ft) | (°) | |
| | 0.00 | 0.00 | 0.00 | 270.66 | |

| | | |
|-----------------------|-----------|----------------------------|
| Survey Program | | Date 08/16/11 |
| From | To | Survey (Wellbore) |
| (ft) | (ft) | |
| | | Tool Name |
| | | Description |
| 100.00 | 745.00 | Gyro Surveys (Wellbore #1) |
| | | MWD |
| 884.00 | 7,633.00 | MWD Surveys (Wellbore #1) |
| | | MWD |
| | | MWD - Standard |
| | | MWD - Standard |

| | | | | | | | | | | |
|-----------------|--------------------|----------------|-----------------|--------------|--------------|-----------------|------------------|------------------|------------------|------|
| Survey | | | | | | | | | | |
| Measured | Inclination | Azimuth | Vertical | +N/-S | +E/-W | Vertical | Dogleg | Build | Turn | |
| Depth | (°) | (°) | Depth | (ft) | (ft) | Section | Rate | Rate | Rate | |
| (ft) | | | (ft) | | | (ft) | (°/100ft) | (°/100ft) | (°/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 | 0.15 | 347.92 | 100.00 | 0.13 | -0.03 | 0.03 | 0.15 | 0.15 | 0.00 | |
| 200.00 | 0.19 | 34.35 | 200.00 | 0.39 | 0.04 | -0.03 | 0.14 | 0.04 | 46.43 | |
| 300.00 | 0.29 | 115.72 | 300.00 | 0.42 | 0.36 | -0.36 | 0.32 | 0.10 | 81.37 | |
| 400.00 | 0.15 | 207.00 | 400.00 | 0.19 | 0.53 | -0.53 | 0.33 | -0.14 | 91.28 | |
| 500.00 | 0.19 | 265.68 | 500.00 | 0.06 | 0.30 | -0.30 | 0.17 | 0.04 | 58.68 | |
| 600.00 | 0.16 | 334.77 | 600.00 | 0.18 | 0.08 | -0.08 | 0.20 | -0.03 | 69.09 | |
| 700.00 | 0.22 | 2.46 | 700.00 | 0.50 | 0.03 | -0.02 | 0.11 | 0.06 | 27.69 | |
| 745.00 | 0.32 | 32.00 | 745.00 | 0.69 | 0.10 | -0.09 | 0.37 | 0.22 | 65.64 | |
| 884.00 | 0.40 | 185.20 | 884.00 | 0.54 | 0.26 | -0.25 | 0.50 | 0.06 | 110.22 | |

Sharewell

Survey Report

| | | | |
|------------------|-----------------------------------|-------------------------------------|-------------------------|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well Kaufman 23B-24-692 |
| Project: | Garfield County, Colorado [NAD83] | TVD Reference: | KB @ 5866.00ft |
| Site: | Kaufman 7 Pad | MD Reference: | KB @ 5866.00ft |
| Well: | Kaufman 23B-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) | |
| 977.00 | 1.70 | 297.00 | 976.98 | 0.84 | -1.00 | 1.01 | 2.03 | 1.40 | 120.22 | |
| 1,069.00 | 3.40 | 286.50 | 1,068.89 | 2.23 | -4.83 | 4.86 | 1.91 | 1.85 | -11.41 | |
| 1,161.00 | 6.20 | 286.30 | 1,160.56 | 4.40 | -12.22 | 12.27 | 3.04 | 3.04 | -0.22 | |
| 1,256.00 | 8.30 | 278.10 | 1,254.79 | 6.81 | -23.93 | 24.01 | 2.46 | 2.21 | -8.63 | |
| 1,352.00 | 10.50 | 274.50 | 1,349.50 | 8.47 | -39.51 | 39.61 | 2.37 | 2.29 | -3.75 | |
| 1,447.00 | 12.80 | 273.80 | 1,442.54 | 9.85 | -58.64 | 58.75 | 2.43 | 2.42 | -0.74 | |
| 1,543.00 | 14.70 | 269.00 | 1,535.78 | 10.34 | -81.44 | 81.55 | 2.31 | 1.98 | -5.00 | |
| 1,638.00 | 15.60 | 269.20 | 1,627.48 | 9.95 | -106.26 | 106.37 | 0.95 | 0.95 | 0.21 | |
| 1,734.00 | 15.80 | 273.30 | 1,719.90 | 10.52 | -132.22 | 132.33 | 1.17 | 0.21 | 4.27 | |
| 1,829.00 | 15.90 | 274.60 | 1,811.29 | 12.31 | -158.10 | 158.23 | 0.39 | 0.11 | 1.37 | |
| 1,925.00 | 17.10 | 267.10 | 1,903.35 | 12.65 | -185.31 | 185.44 | 2.54 | 1.25 | -7.81 | |
| 2,020.00 | 16.40 | 271.50 | 1,994.32 | 12.30 | -212.67 | 212.79 | 1.52 | -0.74 | 4.63 | |
| 2,115.00 | 16.40 | 268.20 | 2,085.46 | 12.23 | -239.48 | 239.60 | 0.98 | 0.00 | -3.47 | |
| 2,211.00 | 16.80 | 272.40 | 2,177.46 | 12.38 | -266.89 | 267.01 | 1.32 | 0.42 | 4.38 | |
| 2,306.00 | 17.20 | 267.90 | 2,268.31 | 12.44 | -294.64 | 294.76 | 1.45 | 0.42 | -4.74 | |
| 2,402.00 | 17.10 | 270.10 | 2,360.04 | 11.95 | -322.94 | 323.06 | 0.68 | -0.10 | 2.29 | |
| 2,497.00 | 17.80 | 266.80 | 2,450.67 | 11.16 | -351.40 | 351.51 | 1.28 | 0.74 | -3.47 | |
| 2,592.00 | 15.80 | 271.30 | 2,541.62 | 10.64 | -378.84 | 378.93 | 2.51 | -2.11 | 4.74 | |
| 2,688.00 | 15.30 | 268.80 | 2,634.10 | 10.67 | -404.57 | 404.66 | 0.87 | -0.52 | -2.60 | |
| 2,783.00 | 15.60 | 267.20 | 2,725.67 | 9.79 | -429.86 | 429.94 | 0.55 | 0.32 | -1.68 | |
| 2,879.00 | 14.50 | 271.20 | 2,818.38 | 9.41 | -454.77 | 454.84 | 1.58 | -1.15 | 4.17 | |
| 2,974.00 | 15.60 | 273.10 | 2,910.12 | 10.35 | -479.41 | 479.50 | 1.27 | 1.16 | 2.00 | |
| 3,069.00 | 15.60 | 272.30 | 3,001.62 | 11.55 | -504.93 | 505.03 | 0.23 | 0.00 | -0.84 | |
| 3,165.00 | 16.70 | 272.00 | 3,093.83 | 12.55 | -531.61 | 531.72 | 1.15 | 1.15 | -0.31 | |
| 3,260.00 | 16.10 | 272.60 | 3,184.97 | 13.63 | -558.41 | 558.53 | 0.66 | -0.63 | 0.63 | |
| 3,355.00 | 15.90 | 272.60 | 3,276.29 | 14.81 | -584.57 | 584.71 | 0.21 | -0.21 | 0.00 | |
| 3,451.00 | 16.90 | 271.10 | 3,368.38 | 15.68 | -611.66 | 611.80 | 1.13 | 1.04 | -1.56 | |
| 3,546.00 | 17.30 | 271.10 | 3,459.18 | 16.21 | -639.59 | 639.73 | 0.42 | 0.42 | 0.00 | |
| 3,642.00 | 17.20 | 269.80 | 3,550.86 | 16.44 | -668.06 | 668.20 | 0.41 | -0.10 | -1.35 | |
| 3,737.00 | 16.90 | 266.80 | 3,641.69 | 15.62 | -695.89 | 696.02 | 0.98 | -0.32 | -3.16 | |
| 3,832.00 | 17.20 | 270.40 | 3,732.52 | 14.95 | -723.72 | 723.85 | 1.15 | 0.32 | 3.79 | |
| 3,928.00 | 16.80 | 272.00 | 3,824.32 | 15.53 | -751.78 | 751.91 | 0.64 | -0.42 | 1.67 | |
| 4,023.00 | 14.40 | 268.90 | 3,915.82 | 15.78 | -777.32 | 777.45 | 2.67 | -2.53 | -3.26 | |
| 4,119.00 | 12.60 | 267.10 | 4,009.16 | 15.02 | -799.71 | 799.83 | 1.93 | -1.88 | -1.88 | |
| 4,214.00 | 10.80 | 266.80 | 4,102.18 | 14.00 | -818.95 | 819.06 | 1.90 | -1.89 | -0.32 | |
| 4,310.00 | 9.30 | 260.30 | 4,196.71 | 12.19 | -835.58 | 835.66 | 1.96 | -1.56 | -6.77 | |
| 4,405.00 | 9.70 | 257.10 | 4,290.41 | 9.11 | -850.94 | 850.99 | 0.70 | 0.42 | -3.37 | |
| 4,500.00 | 7.10 | 261.50 | 4,384.38 | 6.46 | -864.55 | 864.57 | 2.82 | -2.74 | 4.63 | |
| 4,596.00 | 5.60 | 261.70 | 4,479.79 | 4.90 | -875.06 | 875.06 | 1.56 | -1.56 | 0.21 | |
| 4,691.00 | 2.80 | 262.60 | 4,574.53 | 3.94 | -881.95 | 881.93 | 2.95 | -2.95 | 0.95 | |
| 4,787.00 | 2.30 | 306.10 | 4,670.44 | 4.77 | -885.83 | 885.82 | 2.03 | -0.52 | 45.31 | |
| 4,882.00 | 1.60 | 344.30 | 4,765.39 | 7.17 | -887.73 | 887.75 | 1.51 | -0.74 | 40.21 | |
| 4,978.00 | 1.50 | 19.40 | 4,861.35 | 9.64 | -887.67 | 887.73 | 0.98 | -0.10 | 36.56 | |

Sharewell

Survey Report

| | |
|---|---|
| Company: Bill Barrett Corp. | Local Co-ordinate Reference: Well Kaufman 23B-24-692 |
| Project: Garfield County, Colorado [NAD83] | TVD Reference: KB @ 5866.00ft |
| Site: Kaufman 7 Pad | MD Reference: KB @ 5866.00ft |
| Well: Kaufman 23B-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) | |
| 5,073.00 | 0.90 | 42.50 | 4,956.33 | 11.37 | -886.76 | 886.83 | 0.80 | -0.63 | 24.32 | |
| 5,168.00 | 1.00 | 2.00 | 5,051.32 | 12.75 | -886.22 | 886.31 | 0.70 | 0.11 | -42.63 | |
| 5,264.00 | 0.30 | 141.00 | 5,147.32 | 13.39 | -886.04 | 886.13 | 1.29 | -0.73 | 144.79 | |
| 5,359.00 | 1.10 | 209.40 | 5,242.31 | 12.40 | -886.33 | 886.41 | 1.08 | 0.84 | 72.00 | |
| 5,454.00 | 1.80 | 196.70 | 5,337.28 | 10.18 | -887.20 | 887.26 | 0.81 | 0.74 | -13.37 | |
| 5,550.00 | 1.70 | 176.80 | 5,433.24 | 7.31 | -887.56 | 887.58 | 0.64 | -0.10 | -20.73 | |
| 5,645.00 | 0.50 | 158.90 | 5,528.22 | 5.52 | -887.33 | 887.33 | 1.30 | -1.26 | -18.84 | |
| 5,740.00 | 1.10 | 110.10 | 5,623.21 | 4.82 | -886.32 | 886.32 | 0.90 | 0.63 | -51.37 | |
| 5,836.00 | 0.10 | 200.70 | 5,719.20 | 4.42 | -885.49 | 885.48 | 1.15 | -1.04 | 94.38 | |
| 5,931.00 | 0.80 | 213.80 | 5,814.20 | 3.79 | -885.89 | 885.87 | 0.74 | 0.74 | 13.79 | |
| 6,027.00 | 0.90 | 263.40 | 5,910.19 | 3.15 | -887.01 | 886.99 | 0.75 | 0.10 | 51.67 | |
| 6,122.00 | 0.90 | 1.20 | 6,005.18 | 3.81 | -887.73 | 887.72 | 1.43 | 0.00 | 102.95 | |
| 6,217.00 | 0.70 | 132.50 | 6,100.18 | 4.16 | -887.29 | 887.28 | 1.54 | -0.21 | 138.21 | |
| 6,313.00 | 0.50 | 149.90 | 6,196.17 | 3.41 | -886.65 | 886.63 | 0.28 | -0.21 | 18.13 | |
| 6,408.00 | 0.40 | 316.60 | 6,291.17 | 3.29 | -886.67 | 886.65 | 0.94 | -0.11 | 175.47 | |
| 6,504.00 | 0.20 | 323.60 | 6,387.17 | 3.67 | -887.00 | 886.98 | 0.21 | -0.21 | 7.29 | |
| 6,599.00 | 1.00 | 145.20 | 6,482.17 | 3.12 | -886.62 | 886.60 | 1.26 | 0.84 | -187.79 | |
| 6,694.00 | 0.10 | 13.90 | 6,577.16 | 2.52 | -886.13 | 886.10 | 1.12 | -0.95 | -138.21 | |
| 6,790.00 | 1.20 | 34.20 | 6,673.15 | 3.43 | -885.54 | 885.52 | 1.15 | 1.15 | 21.15 | |
| 6,885.00 | 1.30 | 39.70 | 6,768.13 | 5.08 | -884.30 | 884.30 | 0.16 | 0.11 | 5.79 | |
| 6,980.00 | 1.00 | 74.10 | 6,863.11 | 6.14 | -882.81 | 882.82 | 0.78 | -0.32 | 36.21 | |
| 7,075.00 | 1.20 | 42.40 | 6,958.10 | 7.10 | -881.34 | 881.37 | 0.66 | 0.21 | -33.37 | |
| 7,170.00 | 1.70 | 73.60 | 7,053.07 | 8.23 | -879.32 | 879.36 | 0.96 | 0.53 | 32.84 | |
| 7,266.00 | 1.80 | 51.80 | 7,149.02 | 9.57 | -876.77 | 876.82 | 0.70 | 0.10 | -22.71 | |
| 7,361.00 | 2.30 | 344.70 | 7,243.97 | 12.33 | -876.10 | 876.18 | 2.42 | 0.53 | -70.63 | |
| 7,456.00 | 2.30 | 353.10 | 7,338.90 | 16.06 | -876.83 | 876.96 | 0.35 | 0.00 | 8.84 | |
| 7,551.00 | 1.30 | 333.90 | 7,433.85 | 18.92 | -877.53 | 877.69 | 1.22 | -1.05 | -20.21 | |
| 7,586.00 | 1.30 | 340.60 | 7,468.84 | 19.65 | -877.84 | 878.01 | 0.43 | 0.00 | 19.14 | |
| 7,633.00 | 1.30 | 340.60 | 7,515.83 | 20.66 | -878.20 | 878.38 | 0.00 | 0.00 | 0.00 | |

| Design Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|---------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 745.00 | 745.00 | 0.69 | 0.10 | End of Gyro Surveys | |
| 4,596.00 | 4,479.79 | 4.90 | -875.06 | As of Aug 9 | |
| 6,027.00 | 5,910.19 | 3.15 | -887.01 | As of Aug. 10 | |
| 7,633.00 | 7,515.83 | 20.66 | -878.20 | Projected TD | |

Checked By: _____ Approved By: _____ Date: _____