



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado

MDP 15 Pad

GGU Swanson 32B-29-691

Wellbore #1

Survey: Surveys

Standard Survey Report

24 November, 2010

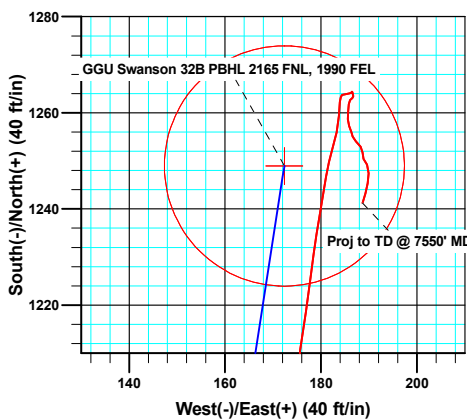
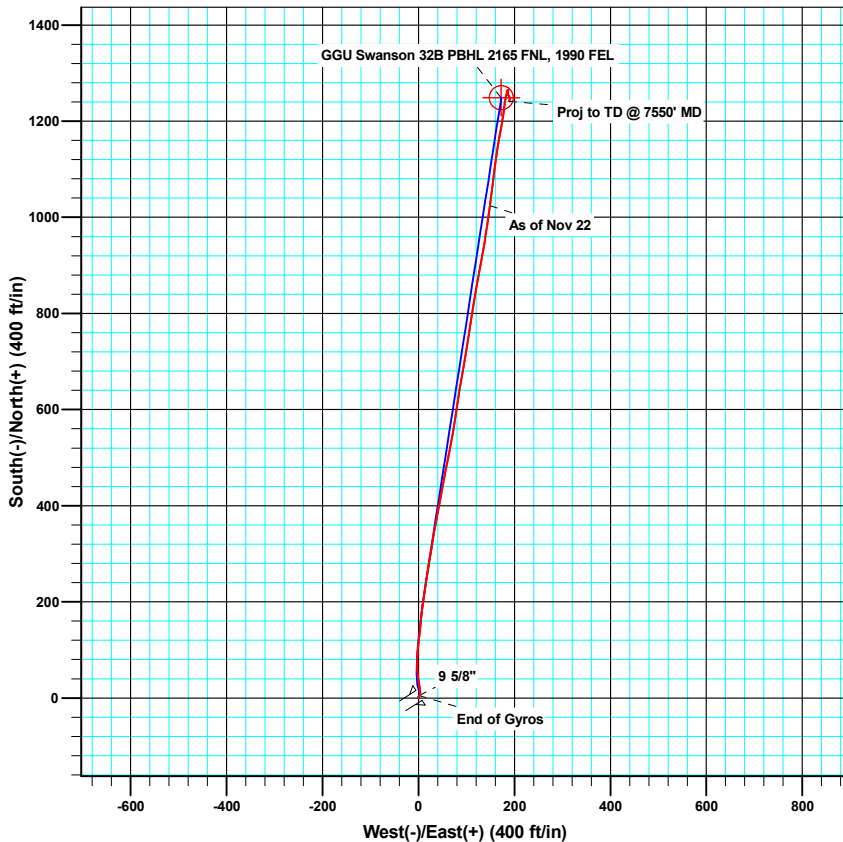
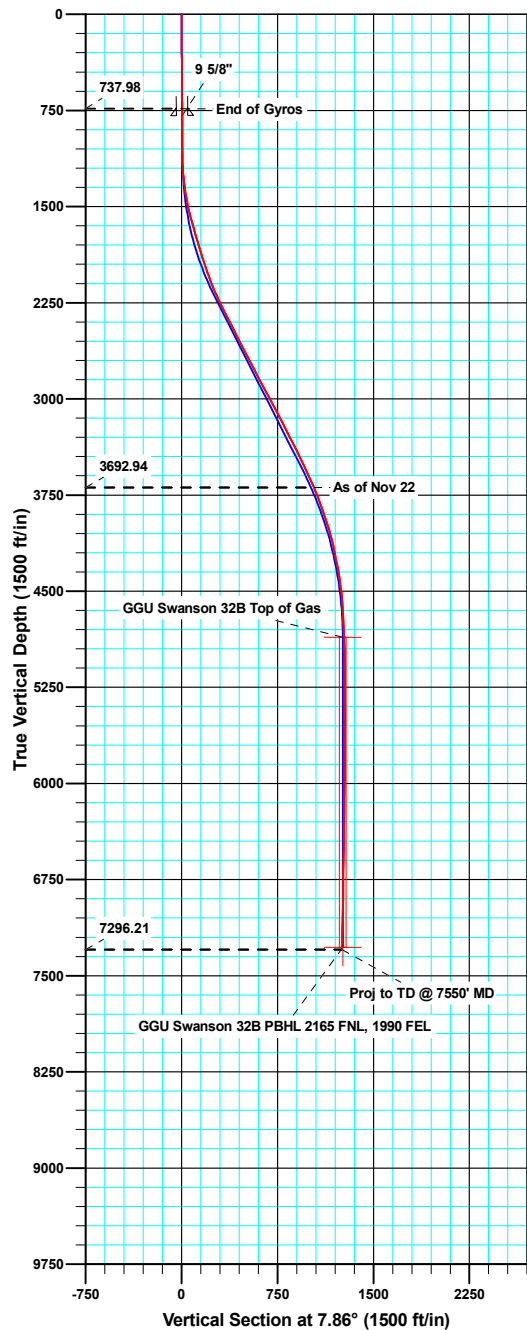




WELL DETAILS: GGU Swanson 32B-29-691

Ground Level: 6030.20

| North American Datum 1983 | | US State Plane 1983 | | Colorado Central Zone | |
|---------------------------|-------|---------------------|------------|-----------------------|------------------|
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| 0.00 | 0.00 | 1612508.97 | 2414167.45 | 39° 29' 48.25 N | 107° 34' 34.13 W |



Azimuths to True North
Magnetic North: 10.23°

Magnetic Field
Strength: 52411.5nT
Dip Angle: 65.85°
Date: 09/10/2010
Model: IGRF200510

ANNOTATIONS

| TVD | MD | Inc | Azi | +N/-S | +E/-W | Vsect | Departure | Annotation |
|---------|---------|-------|--------|---------|--------|---------|-----------|-----------------------|
| 3692.94 | 3915.00 | 23.50 | 7.90 | 1024.71 | 148.52 | 1035.40 | 1034.71 | As of Nov 22 |
| 7296.21 | 7550.00 | 0.90 | 199.40 | 1241.22 | 188.67 | 1255.36 | 1304.56 | Proj to TD @ 7550' MD |

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well GGU Swanson 32B-29-691 |
| Project: | Garfield County, Colorado | TVD Reference: | KB @ 6053.20ft |
| Site: | MDP 15 Pad | MD Reference: | KB @ 6053.20ft |
| Well: | GGU Swanson 32B-29-691 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Compass VM |

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

| | | | | | |
|-----------------------|----------|--------------|-------------------|-------------------|------------------|
| Site | | MDP 15 Pad | | | |
| Site Position: | | Northing: | 1,612,474.12 usft | Latitude: | 39° 29' 47.92 N |
| From: | Lat/Long | Easting: | 2,414,257.84 usft | Longitude: | 107° 34' 32.97 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 1.10 ft | Grid Convergence: | -1.31 ° |

| | | | | | | |
|----------------------|------------------------|---------|---------------------|-------------------|---------------|------------------|
| Well | GGU Swanson 32B-29-691 | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 1,612,508.97 usft | Latitude: | 39° 29' 48.25 N |
| | +E/-W | 0.00 ft | Easting: | 2,414,167.46 usft | Longitude: | 107° 34' 34.13 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | ft | Ground Level: | 6,030.20 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 09/10/10 | 10.24 | 65.85 | 52,411 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| 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 | 7.86 | |

| | | | | | |
|-----------------------|----------------|----------------------------|------------------|--------------------|--|
| Survey Program | Date | 11/24/10 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 50.00 | 738.00 | Gyro Surveys (Wellbore #1) | MWD | MWD - Standard | |
| 876.00 | 7,550.00 | Surveys (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) | |
| 738.00 | 0.52 | 39.86 | 737.98 | 4.91 | 0.70 | 4.96 | 0.00 | 0.00 | 0.00 | |
| 790.70 | 0.37 | 57.58 | 790.68 | 5.18 | 0.99 | 5.27 | 0.39 | -0.29 | 33.62 | |
| 9 5/8" | | | | | | | | | | |
| 876.00 | 0.30 | 116.20 | 875.98 | 5.23 | 1.42 | 5.37 | 0.39 | -0.08 | 68.73 | |
| 967.00 | 0.20 | 123.60 | 966.98 | 5.04 | 1.77 | 5.23 | 0.12 | -0.11 | 8.13 | |
| 1,062.00 | 0.30 | 83.20 | 1,061.98 | 4.97 | 2.15 | 5.22 | 0.21 | 0.11 | -42.53 | |
| 1,157.00 | 2.40 | 11.30 | 1,156.95 | 6.95 | 2.79 | 7.27 | 2.45 | 2.21 | -75.68 | |
| 1,252.00 | 5.40 | 357.80 | 1,251.72 | 13.37 | 3.01 | 13.66 | 3.28 | 3.16 | -14.21 | |
| 1,347.00 | 8.20 | 352.00 | 1,346.04 | 24.55 | 1.89 | 24.58 | 3.03 | 2.95 | -6.11 | |
| 1,443.00 | 10.90 | 350.60 | 1,440.70 | 40.29 | -0.54 | 39.84 | 2.82 | 2.81 | -1.46 | |

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well GGU Swanson 32B-29-691 |
| Project: | Garfield County, Colorado | TVD Reference: | KB @ 6053.20ft |
| Site: | MDP 15 Pad | MD Reference: | KB @ 6053.20ft |
| Well: | GGU Swanson 32B-29-691 | 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) | |
| 1,538.00 | 13.50 | 356.60 | 1,533.55 | 60.22 | -2.67 | 59.29 | 3.04 | 2.74 | 6.32 | |
| 1,632.00 | 15.50 | 2.20 | 1,624.56 | 83.73 | -2.83 | 82.56 | 2.60 | 2.13 | 5.96 | |
| 1,728.00 | 16.80 | 6.10 | 1,716.77 | 110.34 | -0.87 | 109.19 | 1.76 | 1.35 | 4.06 | |
| 1,823.00 | 17.10 | 6.40 | 1,807.64 | 137.88 | 2.15 | 136.87 | 0.33 | 0.32 | 0.32 | |
| 1,918.00 | 17.10 | 5.50 | 1,898.44 | 165.66 | 5.04 | 164.79 | 0.28 | 0.00 | -0.95 | |
| 2,013.00 | 18.50 | 8.70 | 1,988.90 | 194.46 | 8.66 | 193.82 | 1.80 | 1.47 | 3.37 | |
| 2,108.00 | 21.10 | 8.00 | 2,078.27 | 226.30 | 13.32 | 226.00 | 2.75 | 2.74 | -0.74 | |
| 2,203.00 | 23.60 | 8.70 | 2,166.13 | 262.04 | 18.58 | 262.12 | 2.65 | 2.63 | 0.74 | |
| 2,298.00 | 26.40 | 9.30 | 2,252.22 | 301.68 | 24.87 | 302.25 | 2.96 | 2.95 | 0.63 | |
| 2,393.00 | 26.80 | 10.20 | 2,337.16 | 343.61 | 32.08 | 344.76 | 0.60 | 0.42 | 0.95 | |
| 2,488.00 | 27.20 | 10.20 | 2,421.81 | 386.05 | 39.71 | 387.86 | 0.42 | 0.42 | 0.00 | |
| 2,583.00 | 27.30 | 10.90 | 2,506.27 | 428.82 | 47.68 | 431.31 | 0.35 | 0.11 | 0.74 | |
| 2,678.00 | 27.30 | 11.10 | 2,590.69 | 471.59 | 55.99 | 474.81 | 0.10 | 0.00 | 0.21 | |
| 2,773.00 | 27.60 | 11.30 | 2,674.99 | 514.54 | 64.50 | 518.53 | 0.33 | 0.32 | 0.21 | |
| 2,869.00 | 27.50 | 9.50 | 2,760.11 | 558.21 | 72.51 | 562.88 | 0.87 | -0.10 | -1.88 | |
| 2,964.00 | 27.90 | 8.60 | 2,844.22 | 601.82 | 79.46 | 607.03 | 0.61 | 0.42 | -0.95 | |
| 3,058.00 | 28.20 | 9.40 | 2,927.18 | 645.48 | 86.37 | 651.23 | 0.51 | 0.32 | 0.85 | |
| 3,154.00 | 28.30 | 9.20 | 3,011.74 | 690.32 | 93.72 | 696.65 | 0.14 | 0.10 | -0.21 | |
| 3,249.00 | 27.60 | 9.40 | 3,095.66 | 734.26 | 100.91 | 741.16 | 0.74 | -0.74 | 0.21 | |
| 3,344.00 | 27.20 | 8.80 | 3,180.00 | 777.43 | 107.83 | 784.87 | 0.51 | -0.42 | -0.63 | |
| 3,439.00 | 27.20 | 9.80 | 3,264.50 | 820.28 | 114.85 | 828.28 | 0.48 | 0.00 | 1.05 | |
| 3,534.00 | 27.20 | 9.80 | 3,348.99 | 863.07 | 122.24 | 871.68 | 0.00 | 0.00 | 0.00 | |
| 3,725.00 | 25.20 | 10.20 | 3,520.36 | 946.12 | 136.87 | 955.94 | 1.05 | -1.05 | 0.21 | |
| 3,820.00 | 25.10 | 7.80 | 3,606.36 | 985.99 | 143.18 | 996.30 | 1.08 | -0.11 | -2.53 | |
| 3,915.00 | 23.50 | 7.90 | 3,692.94 | 1,024.71 | 148.52 | 1,035.40 | 1.68 | -1.68 | 0.11 | |
| 4,010.00 | 20.30 | 7.10 | 3,781.07 | 1,059.83 | 153.16 | 1,070.82 | 3.38 | -3.37 | -0.84 | |
| 4,105.00 | 20.00 | 6.90 | 3,870.26 | 1,092.32 | 157.15 | 1,103.54 | 0.32 | -0.32 | -0.21 | |
| 4,200.00 | 17.60 | 8.30 | 3,960.18 | 1,122.66 | 161.18 | 1,134.16 | 2.57 | -2.53 | 1.47 | |
| 4,295.00 | 15.50 | 9.80 | 4,051.24 | 1,149.38 | 165.41 | 1,161.21 | 2.26 | -2.21 | 1.58 | |
| 4,390.00 | 13.60 | 10.00 | 4,143.19 | 1,172.90 | 169.51 | 1,185.06 | 2.00 | -2.00 | 0.21 | |
| 4,485.00 | 11.40 | 9.10 | 4,235.93 | 1,193.17 | 172.94 | 1,205.61 | 2.32 | -2.32 | -0.95 | |
| 4,580.00 | 10.10 | 8.90 | 4,329.26 | 1,210.67 | 175.71 | 1,223.32 | 1.37 | -1.37 | -0.21 | |
| 4,675.00 | 8.70 | 7.20 | 4,422.99 | 1,226.03 | 177.90 | 1,238.84 | 1.50 | -1.47 | -1.79 | |
| 4,771.00 | 6.20 | 9.30 | 4,518.17 | 1,238.35 | 179.65 | 1,251.28 | 2.62 | -2.60 | 2.19 | |
| 4,866.00 | 4.10 | 10.10 | 4,612.78 | 1,246.76 | 181.07 | 1,259.80 | 2.21 | -2.21 | 0.84 | |
| 4,961.00 | 2.50 | 16.40 | 4,707.62 | 1,252.09 | 182.25 | 1,265.25 | 1.72 | -1.68 | 6.63 | |
| 5,056.00 | 2.30 | 12.80 | 4,802.53 | 1,255.93 | 183.26 | 1,269.20 | 0.26 | -0.21 | -3.79 | |
| 5,151.00 | 1.90 | 1.40 | 4,897.47 | 1,259.37 | 183.72 | 1,272.66 | 0.61 | -0.42 | -12.00 | |
| 5,246.00 | 1.60 | 7.50 | 4,992.43 | 1,262.26 | 183.93 | 1,275.55 | 0.37 | -0.32 | 6.42 | |
| 5,341.00 | 0.40 | 62.40 | 5,087.41 | 1,263.72 | 184.40 | 1,277.07 | 1.48 | -1.26 | 57.79 | |
| 5,436.00 | 0.50 | 86.10 | 5,182.41 | 1,263.91 | 185.11 | 1,277.35 | 0.22 | 0.11 | 24.95 | |
| 5,531.00 | 0.60 | 69.80 | 5,277.40 | 1,264.11 | 185.99 | 1,277.67 | 0.19 | 0.11 | -17.16 | |
| 5,626.00 | 0.10 | 50.40 | 5,372.40 | 1,264.33 | 186.52 | 1,277.96 | 0.53 | -0.53 | -20.42 | |

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| Company: | Bill Barrett Corp. | Local Co-ordinate Reference: | Well GGU Swanson 32B-29-691 |
| Project: | Garfield County, Colorado | TVD Reference: | KB @ 6053.20ft |
| Site: | MDP 15 Pad | MD Reference: | KB @ 6053.20ft |
| Well: | GGU Swanson 32B-29-691 | 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) |
| 5,721.00 | 0.10 | 277.20 | 5,467.40 | 1,264.39 | 186.50 | 1,278.02 | 0.19 | 0.00 | -140.21 |
| 5,816.00 | 0.40 | 154.50 | 5,562.40 | 1,264.11 | 186.56 | 1,277.74 | 0.49 | 0.32 | -129.16 |
| 5,911.00 | 0.40 | 172.20 | 5,657.40 | 1,263.48 | 186.75 | 1,277.15 | 0.13 | 0.00 | 18.63 |
| 6,006.00 | 0.30 | 253.30 | 5,752.40 | 1,263.08 | 186.56 | 1,276.72 | 0.49 | -0.11 | 85.37 |
| 6,101.00 | 0.50 | 222.20 | 5,847.40 | 1,262.70 | 186.04 | 1,276.28 | 0.30 | 0.21 | -32.74 |
| 6,197.00 | 0.70 | 177.70 | 5,943.39 | 1,261.80 | 185.78 | 1,275.35 | 0.51 | 0.21 | -46.35 |
| 6,292.00 | 1.10 | 186.70 | 6,038.38 | 1,260.32 | 185.70 | 1,273.87 | 0.45 | 0.42 | 9.47 |
| 6,387.00 | 0.90 | 180.30 | 6,133.37 | 1,258.67 | 185.59 | 1,272.22 | 0.24 | -0.21 | -6.74 |
| 6,482.00 | 0.90 | 153.90 | 6,228.35 | 1,257.25 | 185.91 | 1,270.86 | 0.43 | 0.00 | -27.79 |
| 6,577.00 | 0.70 | 170.20 | 6,323.34 | 1,256.01 | 186.34 | 1,269.69 | 0.32 | -0.21 | 17.16 |
| 6,672.00 | 0.50 | 157.20 | 6,418.34 | 1,255.05 | 186.60 | 1,268.78 | 0.25 | -0.21 | -13.68 |
| 6,767.00 | 0.90 | 139.30 | 6,513.33 | 1,254.11 | 187.25 | 1,267.93 | 0.47 | 0.42 | -18.84 |
| 6,862.00 | 0.90 | 136.40 | 6,608.32 | 1,253.00 | 188.25 | 1,266.97 | 0.05 | 0.00 | -3.05 |
| 6,957.00 | 0.90 | 189.40 | 6,703.31 | 1,251.72 | 188.64 | 1,265.76 | 0.85 | 0.00 | 55.79 |
| 7,053.00 | 0.80 | 145.00 | 6,799.30 | 1,250.43 | 188.90 | 1,264.52 | 0.68 | -0.10 | -46.25 |
| 7,148.00 | 0.90 | 154.70 | 6,894.29 | 1,249.21 | 189.60 | 1,263.41 | 0.18 | 0.11 | 10.21 |
| 7,243.00 | 1.30 | 179.70 | 6,989.27 | 1,247.46 | 189.93 | 1,261.71 | 0.65 | 0.42 | 26.32 |
| 7,338.00 | 1.30 | 190.60 | 7,084.25 | 1,245.32 | 189.73 | 1,259.57 | 0.26 | 0.00 | 11.47 |
| 7,433.00 | 1.30 | 193.60 | 7,179.22 | 1,243.22 | 189.28 | 1,257.42 | 0.07 | 0.00 | 3.16 |
| 7,505.00 | 0.90 | 199.40 | 7,251.21 | 1,241.89 | 188.90 | 1,256.06 | 0.58 | -0.56 | 8.06 |
| 7,550.00 | 0.90 | 199.40 | 7,296.21 | 1,241.22 | 188.67 | 1,255.36 | 0.00 | 0.00 | 0.00 |

| Casing Points | | | | |
|---------------------|---------------------|--------|----------------------|--------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (ft) | Hole Diameter (ft) |
| 790.70 | 790.68 | 9 5/8" | 0.80 | 1.02 |

| Survey Annotations | | | | |
|---------------------|---------------------|-------------------|------------|-----------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 3,915.00 | 3,692.94 | 1,024.71 | 148.52 | As of Nov 22 |
| 7,550.00 | 7,296.21 | 1,241.22 | 188.67 | Proj to TD @ 7550' MD |

Checked By: _____ Approved By: _____ Date: _____