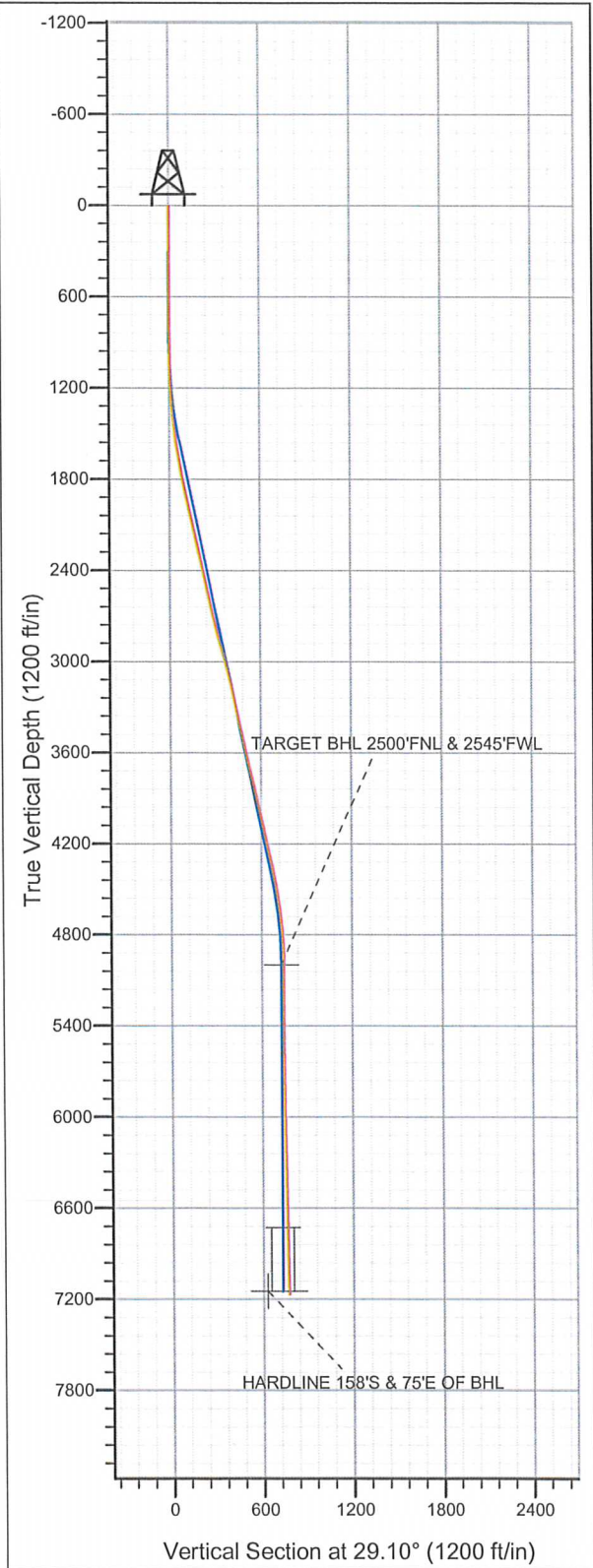




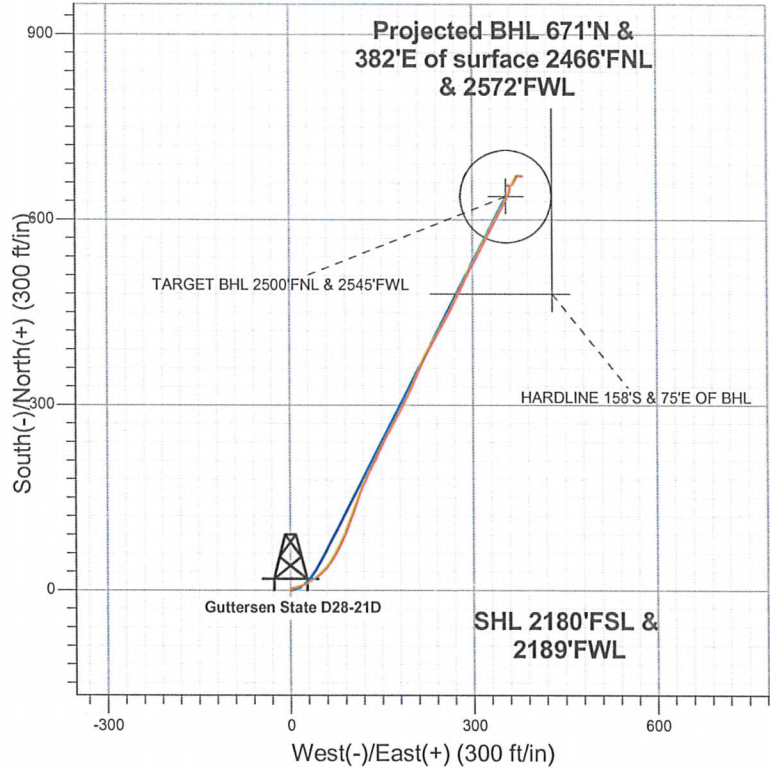
Well Name: Guttersen State D28-21D

Surface Location: Guttersen State D28-21D Pad Sec.28-T3N-R64W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4800.0

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|--------------------|-------|------------|------------|--------------------------------------|-------------|------|
| 0.0 | 0.0 | 1315304.55 | 3263172.79 | 40.195070 | -104.557900 | |
| Original Well Elev | | | | WELL @ 4813.0ft (Original Well Elev) | | |



NOBLE ENERGY INC WELD COUNTY CO



- LEGEND
- Wellbore #1
 - Guttersen State D28-21D, Wellbore #1, Noble Guttersen State D28-21D Plan #1 (1-24-12) V0
 - Survey #1

Final Survey Plot

Projected Final Survey -
7250'MD & 7170'TVD @ 772'VS
1.00 deg Inc 80.20 deg AZ

Project: SEC.28-T3N-R64W
Site: Guttersen State D28-21D Pad Sec.28-T3N-R64W
Well: Guttersen State D28-21D
Plan: Wellbore #1



Directional

**NOBLE ENERGY INC WELD
COUNTY CO**

SEC.28-T3N-R64W

Guttersen State D28-21D Pad Sec.28-T3N-R64W

Guttersen State D28-21D

Wellbore #1

Survey: Survey #1

Standard Survey Report

18 June, 2012



Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.28-T3N-R64W
Site: Gutttersen State D28-21D Pad
Sec.28-T3N-R64W
Well: Gutttersen State D28-21D
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Gutttersen State D28-21D
TVD Reference: WELL @ 4813.0ft (Original Well Elev)
MD Reference: WELL @ 4813.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Landmark

| | | | |
|-------------|--|---------------|-----------------------------|
| Project | SEC.28-T3N-R64W, Weld County, Colorado | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | Using Well Reference Point |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | | | |
|-----------------------|--|--------------|-----------------|-------------------|-------------|
| Site | Gutttersen State D28-21D Pad Sec.28-T3N-R64W | | | | |
| Site Position: | | Northing: | 1,315,304.56 ft | Latitude: | 40.195070 |
| From: | Lat/Long | Easting: | 3,263,172.79 ft | Longitude: | -104.557900 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.61 ° |

| | | | | | | |
|----------------------|-------------------------|---------------------|-----------|-----------------|------------|-------------|
| Well | Guttersen State D28-21D | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,315,304.55 ft | Latitude: | 40.195070 |
| | +E/-W | 0.0 ft | Easting: | 3,263,172.79 ft | Longitude: | -104.557900 |
| Position Uncertainty | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,800.0 ft | |

| | | | | | |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/11/2012 | 8.60 | 66.88 | 52,942 |

| | | | | | |
|-------------------|------------------|--------|--------|---------------|-----|
| Design | Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction | |
| | (ft) | (ft) | (ft) | (°) | |
| | 0.0 | 0.0 | 0.0 | 29.10 | |

| | | | | |
|----------------|----------------|-------------------------|-----------|----------------|
| Survey Program | Date 6/18/2012 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 144.0 | 7,250.0 | Survey #1 (Wellbore #1) | MWD | MWD - Standard |

| 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 144.0 | 0.40 | 134.80 | 144.0 | -0.4 | 0.4 | -0.1 | 0.28 | 0.28 | 0.00 |
| 236.0 | 0.30 | 107.90 | 236.0 | -0.7 | 0.8 | -0.2 | 0.21 | -0.11 | -29.24 |
| 328.0 | 0.30 | 111.80 | 328.0 | -0.8 | 1.3 | -0.1 | 0.02 | 0.00 | 4.24 |
| 420.0 | 0.30 | 126.90 | 420.0 | -1.1 | 1.7 | -0.1 | 0.09 | 0.00 | 16.41 |
| 511.0 | 0.40 | 121.60 | 511.0 | -1.4 | 2.1 | -0.1 | 0.12 | 0.11 | -5.82 |
| 613.0 | 0.50 | 6.10 | 613.0 | -1.1 | 2.5 | 0.2 | 0.75 | 0.10 | -113.24 |
| 695.0 | 0.60 | 347.50 | 695.0 | -0.3 | 2.4 | 0.9 | 0.25 | 0.12 | -22.68 |
| 777.0 | 0.70 | 353.10 | 777.0 | 0.6 | 2.3 | 1.6 | 0.14 | 0.12 | 6.83 |
| 825.0 | 0.80 | 1.90 | 825.0 | 1.2 | 2.3 | 2.2 | 0.32 | 0.21 | 18.33 |
| 870.0 | 0.80 | 1.90 | 870.0 | 1.8 | 2.3 | 2.7 | 0.00 | 0.00 | 0.00 |
| 916.0 | 0.70 | 17.60 | 916.0 | 2.4 | 2.4 | 3.3 | 0.49 | -0.22 | 34.13 |

Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.28-T3N-R64W
Site: Gutteresen State D28-21D Pad
Sec.28-T3N-R64W
Well: Gutteresen State D28-21D
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Gutteresen State D28-21D
TVD Reference: WELL @ 4813.0ft (Original Well Elev)
MD Reference: WELL @ 4813.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Landmark

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) |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 998.0 | 1.70 | 56.10 | 998.0 | 3.6 | 3.5 | 4.9 | 1.50 | 1.22 | 46.95 |
| 1,080.0 | 2.30 | 94.90 | 1,079.9 | 4.1 | 6.2 | 6.6 | 1.76 | 0.73 | 47.32 |
| 1,161.0 | 3.30 | 72.90 | 1,160.8 | 4.7 | 10.0 | 9.0 | 1.79 | 1.23 | -27.16 |
| 1,243.0 | 4.30 | 76.30 | 1,242.6 | 6.1 | 15.3 | 12.8 | 1.25 | 1.22 | 4.15 |
| 1,325.0 | 5.60 | 66.40 | 1,324.3 | 8.4 | 21.9 | 18.0 | 1.89 | 1.59 | -12.07 |
| 1,406.0 | 6.80 | 56.20 | 1,404.8 | 12.7 | 29.5 | 25.4 | 2.01 | 1.48 | -12.59 |
| 1,488.0 | 8.30 | 59.00 | 1,486.1 | 18.4 | 38.6 | 34.9 | 1.88 | 1.83 | 3.41 |
| 1,570.0 | 9.20 | 47.60 | 1,567.2 | 25.9 | 48.6 | 46.2 | 2.38 | 1.10 | -13.90 |
| 1,652.0 | 10.10 | 42.90 | 1,648.0 | 35.6 | 58.3 | 59.4 | 1.46 | 1.10 | -5.73 |
| 1,733.0 | 10.50 | 31.50 | 1,727.7 | 47.1 | 67.0 | 73.7 | 2.56 | 0.49 | -14.07 |
| 1,815.0 | 11.70 | 29.00 | 1,808.2 | 60.7 | 74.9 | 89.5 | 1.58 | 1.46 | -3.05 |
| 1,897.0 | 12.20 | 24.80 | 1,888.4 | 75.9 | 82.6 | 106.4 | 1.22 | 0.61 | -5.12 |
| 1,978.0 | 12.30 | 23.40 | 1,967.6 | 91.5 | 89.6 | 123.6 | 0.39 | 0.12 | -1.73 |
| 2,060.0 | 12.80 | 19.50 | 2,047.6 | 108.1 | 96.1 | 141.2 | 1.20 | 0.61 | -4.76 |
| 2,142.0 | 13.20 | 21.80 | 2,127.5 | 125.4 | 102.6 | 159.5 | 0.80 | 0.49 | 2.80 |
| 2,223.0 | 13.20 | 17.60 | 2,206.4 | 142.8 | 108.8 | 177.7 | 1.18 | 0.00 | -5.19 |
| 2,305.0 | 12.90 | 21.80 | 2,286.3 | 160.2 | 115.1 | 195.9 | 1.21 | -0.37 | 5.12 |
| 2,387.0 | 12.10 | 26.70 | 2,366.3 | 176.4 | 122.3 | 213.6 | 1.62 | -0.98 | 5.98 |
| 2,468.0 | 11.80 | 24.80 | 2,445.6 | 191.5 | 129.6 | 230.4 | 0.61 | -0.37 | -2.35 |
| 2,550.0 | 12.10 | 27.20 | 2,525.8 | 206.7 | 137.1 | 247.3 | 0.71 | 0.37 | 2.93 |
| 2,632.0 | 13.10 | 24.10 | 2,605.8 | 222.9 | 144.8 | 265.2 | 1.47 | 1.22 | -3.78 |
| 2,713.0 | 13.60 | 26.70 | 2,684.6 | 239.8 | 152.8 | 283.8 | 0.96 | 0.62 | 3.21 |
| 2,795.0 | 14.50 | 29.00 | 2,764.2 | 257.3 | 162.1 | 303.7 | 1.29 | 1.10 | 2.80 |
| 2,877.0 | 14.60 | 28.10 | 2,843.5 | 275.4 | 172.0 | 324.3 | 0.30 | 0.12 | -1.10 |
| 2,958.0 | 15.50 | 27.40 | 2,921.8 | 294.1 | 181.8 | 345.3 | 1.13 | 1.11 | -0.86 |
| 3,040.0 | 14.30 | 26.70 | 3,001.0 | 312.8 | 191.4 | 366.4 | 1.48 | -1.46 | -0.85 |
| 3,122.0 | 13.70 | 22.30 | 3,080.6 | 330.9 | 199.6 | 386.2 | 1.49 | -0.73 | -5.37 |
| 3,203.0 | 13.80 | 24.80 | 3,159.2 | 348.5 | 207.3 | 405.3 | 0.74 | 0.12 | 3.09 |
| 3,285.0 | 12.10 | 21.80 | 3,239.2 | 365.4 | 214.6 | 423.6 | 2.23 | -2.07 | -3.66 |
| 3,367.0 | 11.80 | 28.80 | 3,319.4 | 380.7 | 221.8 | 440.5 | 1.80 | -0.37 | 8.54 |
| 3,448.0 | 11.90 | 30.40 | 3,398.7 | 395.2 | 230.0 | 457.1 | 0.42 | 0.12 | 1.98 |
| 3,530.0 | 13.30 | 28.60 | 3,478.7 | 410.7 | 238.8 | 475.0 | 1.77 | 1.71 | -2.20 |
| 3,612.0 | 12.80 | 30.40 | 3,558.6 | 426.8 | 247.9 | 493.5 | 0.79 | -0.61 | 2.20 |
| 3,694.0 | 12.60 | 27.90 | 3,638.6 | 442.6 | 256.7 | 511.6 | 0.71 | -0.24 | -3.05 |
| 3,775.0 | 13.40 | 27.10 | 3,717.5 | 458.7 | 265.1 | 529.8 | 1.01 | 0.99 | -0.99 |
| 3,857.0 | 13.60 | 26.00 | 3,797.2 | 475.9 | 273.7 | 548.9 | 0.40 | 0.24 | -1.34 |
| 3,939.0 | 13.50 | 25.80 | 3,876.9 | 493.2 | 282.1 | 568.1 | 0.13 | -0.12 | -0.24 |
| 4,020.0 | 12.80 | 24.80 | 3,955.8 | 509.8 | 290.0 | 586.5 | 0.91 | -0.86 | -1.23 |
| 4,102.0 | 12.00 | 29.50 | 4,035.9 | 525.5 | 298.0 | 604.1 | 1.57 | -0.98 | 5.73 |
| 4,184.0 | 12.80 | 27.20 | 4,116.0 | 541.0 | 306.3 | 621.7 | 1.15 | 0.98 | -2.80 |
| 4,265.0 | 13.60 | 27.90 | 4,194.8 | 557.4 | 314.9 | 640.1 | 1.01 | 0.99 | 0.86 |
| 4,347.0 | 11.50 | 25.50 | 4,274.9 | 573.3 | 322.9 | 657.9 | 2.64 | -2.56 | -2.93 |
| 4,429.0 | 11.70 | 29.00 | 4,355.2 | 587.9 | 330.4 | 674.4 | 0.89 | 0.24 | 4.27 |
| 4,510.0 | 10.60 | 29.20 | 4,434.7 | 601.6 | 338.1 | 690.1 | 1.36 | -1.36 | 0.25 |
| 4,592.0 | 9.40 | 27.40 | 4,515.4 | 614.1 | 344.8 | 704.3 | 1.51 | -1.46 | -2.20 |
| 4,674.0 | 8.10 | 28.10 | 4,596.5 | 625.2 | 350.6 | 716.8 | 1.59 | -1.59 | 0.85 |
| 4,755.0 | 6.70 | 25.50 | 4,676.8 | 634.5 | 355.4 | 727.2 | 1.78 | -1.73 | -3.21 |
| 4,836.0 | 5.50 | 18.60 | 4,757.3 | 642.4 | 358.6 | 735.7 | 1.73 | -1.48 | -8.52 |
| 4,919.0 | 4.20 | 8.10 | 4,840.0 | 649.2 | 360.3 | 742.5 | 1.89 | -1.57 | -12.65 |
| 5,000.0 | 2.50 | 338.90 | 4,920.9 | 653.8 | 360.1 | 746.4 | 2.91 | -2.10 | -36.05 |
| 5,078.7 | 1.24 | 316.42 | 4,999.6 | 656.0 | 358.9 | 747.7 | 1.82 | -1.60 | -28.57 |
| TARGET BHL 2500'FNL & 2545'FWL | | | | | | | | | |
| 5,082.0 | 1.20 | 314.50 | 5,002.9 | 656.1 | 358.8 | 747.8 | 1.82 | -1.33 | -58.00 |

Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.28-T3N-R64W
Site: Gutttersen State D28-21D Pad
Sec.28-T3N-R64W
Well: Gutttersen State D28-21D
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Gutttersen State D28-21D
TVD Reference: WELL @ 4813.0ft (Original Well Elev)
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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Landmark

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) |
|-----------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 5,164.0 | 0.80 | 228.70 | 5,084.9 | 656.3 | 357.8 | 747.5 | 1.70 | -0.49 | -104.63 |
| 5,245.0 | 0.40 | 204.20 | 5,165.9 | 655.6 | 357.3 | 746.6 | 0.58 | -0.49 | -30.25 |
| 5,327.0 | 0.20 | 164.20 | 5,247.9 | 655.3 | 357.2 | 746.3 | 0.34 | -0.24 | -48.78 |
| 5,409.0 | 0.30 | 110.20 | 5,329.9 | 655.0 | 357.4 | 746.2 | 0.30 | 0.12 | -65.85 |
| 5,490.0 | 0.40 | 78.60 | 5,410.9 | 655.0 | 357.9 | 746.4 | 0.26 | 0.12 | -39.01 |
| 5,572.0 | 0.60 | 59.00 | 5,492.8 | 655.3 | 358.5 | 747.0 | 0.32 | 0.24 | -23.90 |
| 5,654.0 | 0.70 | 93.70 | 5,574.8 | 655.5 | 359.4 | 747.5 | 0.49 | 0.12 | 42.32 |
| 5,736.0 | 1.00 | 86.60 | 5,656.8 | 655.5 | 360.6 | 748.1 | 0.39 | 0.37 | -8.66 |
| 5,817.0 | 1.10 | 80.00 | 5,737.8 | 655.7 | 362.1 | 749.0 | 0.19 | 0.12 | -8.15 |
| 5,899.0 | 0.80 | 59.80 | 5,819.8 | 656.1 | 363.4 | 750.0 | 0.54 | -0.37 | -24.63 |
| 5,981.0 | 0.80 | 42.00 | 5,901.8 | 656.8 | 364.3 | 751.1 | 0.30 | 0.00 | -21.71 |
| 6,062.0 | 0.70 | 40.90 | 5,982.8 | 657.6 | 365.0 | 752.1 | 0.12 | -0.12 | -1.36 |
| 6,144.0 | 0.70 | 22.50 | 6,064.8 | 658.4 | 365.5 | 753.1 | 0.27 | 0.00 | -22.44 |
| 6,226.0 | 0.60 | 17.60 | 6,146.8 | 659.3 | 365.8 | 754.0 | 0.14 | -0.12 | -5.98 |
| 6,307.0 | 0.80 | 24.60 | 6,227.8 | 660.2 | 366.2 | 755.0 | 0.27 | 0.25 | 8.64 |
| 6,389.0 | 1.00 | 31.30 | 6,309.8 | 661.4 | 366.8 | 756.3 | 0.28 | 0.24 | 8.17 |
| 6,471.0 | 0.90 | 36.40 | 6,391.8 | 662.5 | 367.5 | 757.6 | 0.16 | -0.12 | 6.22 |
| 6,552.0 | 1.30 | 35.50 | 6,472.7 | 663.8 | 368.4 | 759.2 | 0.49 | 0.49 | -1.11 |
| 6,634.0 | 1.20 | 25.10 | 6,554.7 | 665.3 | 369.3 | 760.9 | 0.30 | -0.12 | -12.68 |
| 6,716.0 | 1.30 | 37.60 | 6,636.7 | 666.8 | 370.3 | 762.7 | 0.35 | 0.12 | 15.24 |
| 6,797.0 | 1.30 | 19.50 | 6,717.7 | 668.4 | 371.1 | 764.5 | 0.50 | 0.00 | -22.35 |
| 6,806.6 | 1.30 | 18.26 | 6,727.2 | 668.6 | 371.2 | 764.7 | 0.30 | -0.02 | -13.00 |
| TARGET CIRCLE 2500'FNL & 2545'FWL | | | | | | | | | |
| 6,879.0 | 1.30 | 8.80 | 6,799.7 | 670.2 | 371.6 | 766.3 | 0.30 | 0.00 | -13.06 |
| 6,961.0 | 1.20 | 74.20 | 6,881.6 | 671.4 | 372.6 | 767.8 | 1.65 | -0.12 | 79.76 |
| 7,042.0 | 2.00 | 106.70 | 6,962.6 | 671.2 | 374.7 | 768.7 | 1.46 | 0.99 | 40.12 |
| 7,124.0 | 2.50 | 97.50 | 7,044.6 | 670.5 | 377.9 | 769.7 | 0.75 | 0.61 | -11.22 |
| 7,206.0 | 1.50 | 61.90 | 7,126.5 | 670.8 | 380.6 | 771.2 | 1.89 | -1.22 | -43.41 |
| HARDLINE 158'S & 75'E OF BHL | | | | | | | | | |
| 7,250.0 | 1.00 | 80.20 | 7,170.5 | 671.1 | 381.5 | 772.0 | 1.44 | -1.14 | 41.59 |

Checked By: _____ Approved By: _____ Date: _____