

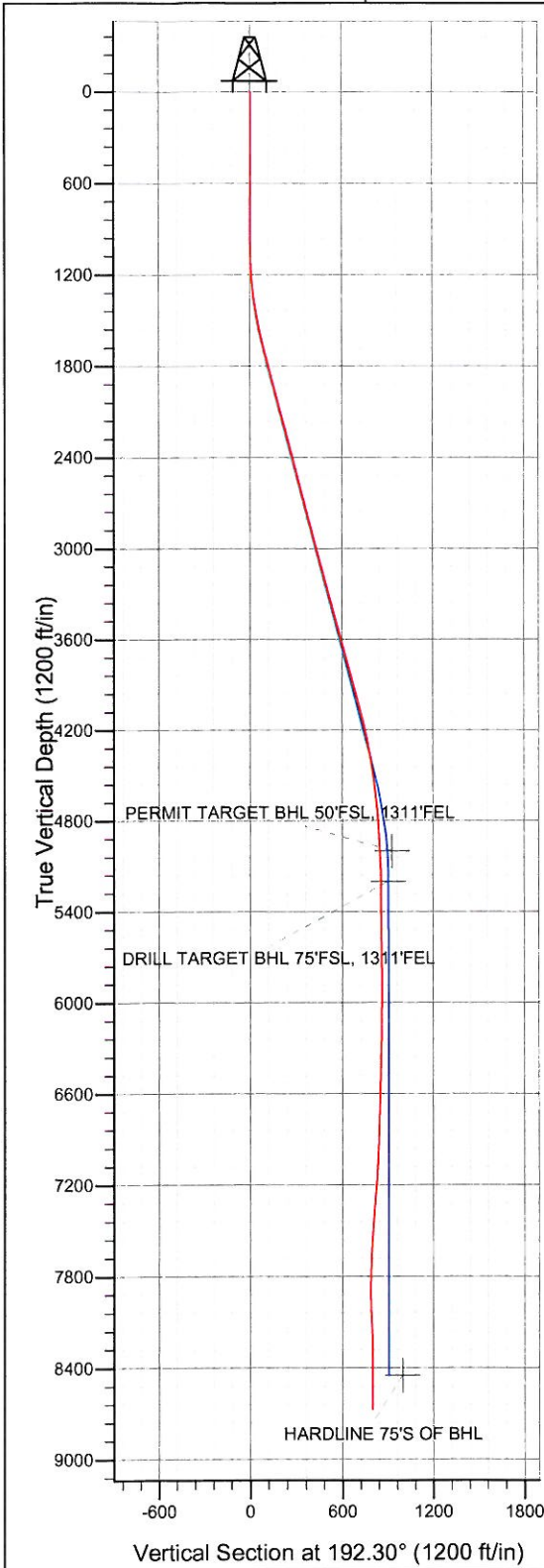


Well Name: **Pratt 29TD**

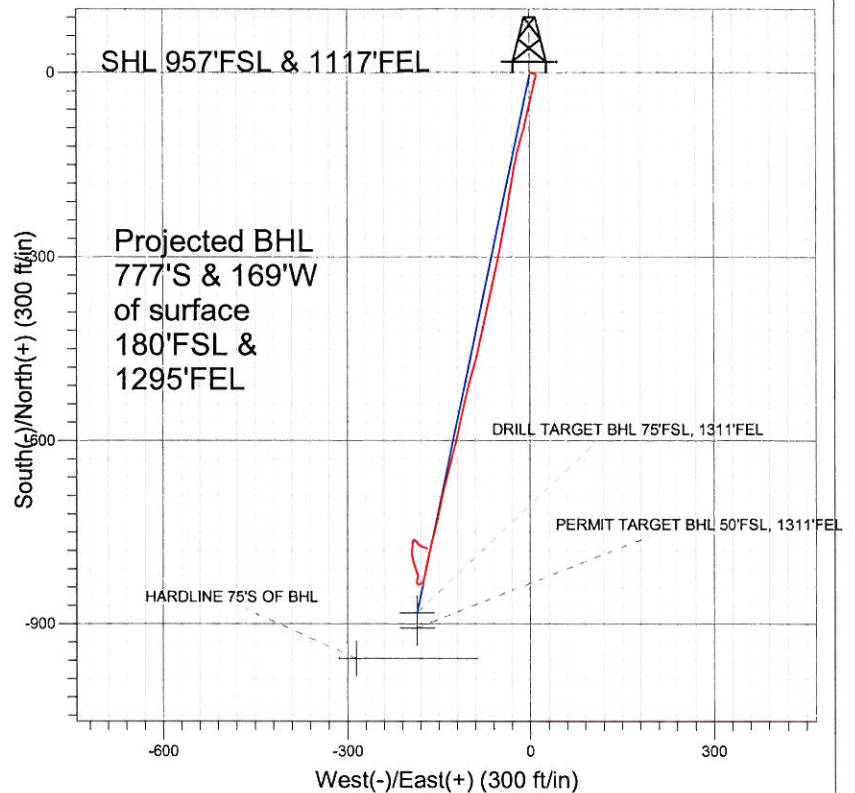
Surface Location: Pratt 34-29D Pad Sec.29-T1N-R68W  
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone  
 Ground Elevation: 5179.0

| +N/-S | +E/-W | Northing   | Easting    | Latitude       | Longitude        | Slot |
|-------|-------|------------|------------|----------------|------------------|------|
| 0.0   | 0.0   | 1249534.53 | 3133841.13 | 40° 1' 2.528 N | 105° 1' 19.682 W |      |

Original Well Elev WELL @ 5192.0ft (Original Well Elev)



## Synergy Resources



## LEGEND

- Pratt 29TD, Wellbore #1, Plan #2 (12-15-10) V0
- Wellbore #1
- Survey #1

## Final Survey Plot

Projected Final Survey -  
 8777'MD & 8674'TVD @ 795' VS  
 1.5 deg Inc 104.3 deg AZ

Project: SEC.29-T1N-R68W  
 Site: Pratt 34-29D Pad Sec.29-T1N-R68W  
 Well: Pratt 29TD  
 Plan: Wellbore #1



## **Directional**

### **Synergy Resources**

**SEC.29-T1N-R68W**

**Pratt 34-29D Pad Sec.29-T1N-R68W**

**Pratt 29TD**

**Wellbore #1**

**Survey: Survey #1**

### **Standard Survey Report**

**05 January, 2011**

|                  |                                  |                                     |                                      |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Synergy Resources                | <b>Local Co-ordinate Reference:</b> | Well Pratt 29TD                      |
| <b>Project:</b>  | SEC.29-T1N-R68W                  | <b>TVD Reference:</b>               | WELL @ 5192.0ft (Original Well Elev) |
| <b>Site:</b>     | Pratt 34-29D Pad Sec.29-T1N-R68W | <b>MD Reference:</b>                | WELL @ 5192.0ft (Original Well Elev) |
| <b>Well:</b>     | Pratt 29TD                       | <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>                    | Landmark                             |

|                    |  |                             |                |
|--------------------|--|-----------------------------|----------------|
| <b>Project</b>     | SEC.29-T1N-R68W, Weld 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 Northern Zone                 | Using geodetic scale factor |                |

|                       |                                  |              |                 |                   |                  |
|-----------------------|----------------------------------|--------------|-----------------|-------------------|------------------|
| Site                  | Pratt 34-29D Pad Sec.29-T1N-R68W |              |                 |                   |                  |
| Site Position:        |                                  | Northing:    | 1,249,588.32 ft | Latitude:         | 40° 1' 3.065 N   |
| From:                 | Lat/Long                         | Easting:     | 3,133,748.69 ft | Longitude:        | 105° 1' 20.867 W |
| Position Uncertainty: | 0.0 ft                           | Slot Radius: | "               | Grid Convergence: | 0.31 °           |

|                      |            |        |                     |                 |               |                  |
|----------------------|------------|--------|---------------------|-----------------|---------------|------------------|
| Well                 | Pratt 29TD |        |                     |                 |               |                  |
| Well Position        | +N/-S      | 0.0 ft | Northing:           | 1,249,534.53 ft | Latitude:     | 40° 1' 2.528 N   |
|                      | +E/-W      | 0.0 ft | Easting:            | 3,133,841.13 ft | Longitude:    | 105° 1' 19.682 W |
| Position Uncertainty |            | 0.0 ft | Wellhead Elevation: | ft              | Ground Level: | 5,179.0 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> |
|                  | IGRF2010          | 12/29/2010         | 9.03                   | 66.71                | 52,947                     |

|                   |                          |               |               |                  |     |
|-------------------|--------------------------|---------------|---------------|------------------|-----|
| Design            | Wellbore #1              |               |               |                  |     |
| Audit Notes:      |                          |               |               |                  |     |
| Version:          | 1.0                      | Phase:        | ACTUAL        | Tie On Depth:    | 0.0 |
| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |     |
|                   | 0.0                      | 0.0           | 0.0           | 192.30           |     |

|                       |                |                          |                  |                    |  |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | Date 1/5/2011  |                          |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| 1,020.0               | 8,777.0        | Survey #1 (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> |  |
| 0.0                        | 0.00                   | 0.00               | 0.0                        | 0.0               | 0.0               | 0.0                          | 0.00                         | 0.00                        | 0.00                       |  |
| 1,020.0                    | 1.10                   | 109.80             | 1,019.9                    | -3.3              | 9.2               | 1.3                          | 0.11                         | 0.11                        | 0.00                       |  |
| 1,114.0                    | 1.80                   | 176.60             | 1,113.9                    | -5.1              | 10.1              | 2.8                          | 1.81                         | 0.74                        | 71.06                      |  |
| 1,208.0                    | 3.90                   | 203.30             | 1,207.8                    | -9.5              | 9.0               | 7.4                          | 2.59                         | 2.23                        | 28.40                      |  |
| 1,300.0                    | 6.90                   | 191.70             | 1,299.4                    | -17.8             | 6.6               | 16.0                         | 3.45                         | 3.26                        | -12.61                     |  |
| 1,394.0                    | 8.50                   | 190.00             | 1,392.5                    | -30.2             | 4.3               | 28.6                         | 1.72                         | 1.70                        | -1.81                      |  |
| 1,488.0                    | 10.30                  | 195.20             | 1,485.3                    | -45.1             | 0.9               | 43.9                         | 2.12                         | 1.91                        | 5.53                       |  |
| 1,581.0                    | 12.20                  | 192.70             | 1,576.5                    | -62.7             | -3.5              | 62.0                         | 2.11                         | 2.04                        | -2.69                      |  |
| 1,675.0                    | 13.20                  | 192.50             | 1,668.2                    | -82.9             | -8.0              | 82.7                         | 1.06                         | 1.06                        | -0.21                      |  |
| 1,769.0                    | 14.30                  | 198.20             | 1,759.5                    | -104.4            | -13.9             | 105.0                        | 1.86                         | 1.17                        | 6.06                       |  |
| 1,862.0                    | 15.10                  | 193.10             | 1,849.4                    | -127.1            | -20.3             | 128.5                        | 1.64                         | 0.86                        | -5.48                      |  |
| 1,957.0                    | 14.30                  | 191.00             | 1,941.3                    | -150.7            | -25.3             | 152.6                        | 1.01                         | -0.84                       | -2.21                      |  |
| 2,051.0                    | 15.00                  | 190.70             | 2,032.3                    | -174.0            | -29.8             | 176.4                        | 0.75                         | 0.74                        | -0.32                      |  |



**Company:** Synergy Resources  
**Project:** SEC.29-T1N-R68W  
**Site:** Pratt 34-29D Pad Sec.29-T1N-R68W  
**Well:** Pratt 29TD  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well Pratt 29TD  
**TVD Reference:** WELL @ 5192.0ft (Original Well Elev)  
**MD Reference:** WELL @ 5192.0ft (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) |
|------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 2,145.0                            | 15.30           | 189.00      | 2,123.0             | -198.2     | -34.0      | 200.9                 | 0.57                  | 0.32                 | -1.81               |
| 2,238.0                            | 14.80           | 188.90      | 2,212.8             | -222.1     | -37.8      | 225.0                 | 0.54                  | -0.54                | -0.11               |
| 2,332.0                            | 14.40           | 191.10      | 2,303.8             | -245.4     | -41.9      | 248.7                 | 0.73                  | -0.43                | 2.34                |
| 2,426.0                            | 14.00           | 189.90      | 2,394.9             | -268.1     | -46.1      | 271.8                 | 0.53                  | -0.43                | -1.28               |
| 2,520.0                            | 14.70           | 191.90      | 2,486.0             | -291.0     | -50.5      | 295.0                 | 0.91                  | 0.74                 | 2.13                |
| 2,613.0                            | 14.90           | 190.20      | 2,575.9             | -314.3     | -55.0      | 318.8                 | 0.51                  | 0.22                 | -1.83               |
| 2,706.0                            | 14.40           | 193.10      | 2,665.9             | -337.3     | -59.8      | 342.3                 | 0.95                  | -0.54                | 3.12                |
| 2,800.0                            | 13.80           | 193.00      | 2,757.0             | -359.6     | -64.9      | 365.2                 | 0.64                  | -0.64                | -0.11               |
| 2,894.0                            | 14.20           | 190.00      | 2,848.2             | -381.9     | -69.5      | 387.9                 | 0.88                  | 0.43                 | -3.19               |
| 2,988.0                            | 15.10           | 194.40      | 2,939.2             | -405.1     | -74.5      | 411.7                 | 1.52                  | 0.96                 | 4.68                |
| 3,081.0                            | 15.50           | 193.20      | 3,028.9             | -428.9     | -80.4      | 436.2                 | 0.55                  | 0.43                 | -1.29               |
| 3,175.0                            | 14.90           | 192.00      | 3,119.6             | -453.0     | -85.7      | 460.9                 | 0.72                  | -0.64                | -1.28               |
| 3,269.0                            | 14.70           | 196.30      | 3,210.5             | -476.3     | -91.6      | 484.8                 | 1.19                  | -0.21                | 4.57                |
| 3,362.0                            | 14.60           | 195.60      | 3,300.5             | -498.9     | -98.1      | 508.3                 | 0.22                  | -0.11                | -0.75               |
| 3,457.0                            | 16.00           | 192.30      | 3,392.1             | -523.2     | -104.1     | 533.4                 | 1.73                  | 1.47                 | -3.47               |
| 3,550.0                            | 15.70           | 193.70      | 3,481.6             | -548.0     | -109.8     | 558.8                 | 0.52                  | -0.32                | 1.51                |
| 3,644.0                            | 14.70           | 190.80      | 3,572.3             | -572.0     | -115.0     | 583.4                 | 1.34                  | -1.06                | -3.09               |
| 3,738.0                            | 14.10           | 192.30      | 3,663.3             | -594.9     | -119.7     | 606.8                 | 0.75                  | -0.64                | 1.60                |
| 3,832.0                            | 14.70           | 193.70      | 3,754.4             | -617.7     | -125.0     | 630.1                 | 0.74                  | 0.64                 | 1.49                |
| 3,925.0                            | 15.00           | 195.50      | 3,844.3             | -640.8     | -131.0     | 654.0                 | 0.59                  | 0.32                 | 1.94                |
| 4,019.0                            | 15.30           | 194.60      | 3,935.0             | -664.5     | -137.4     | 678.5                 | 0.41                  | 0.32                 | -0.96               |
| 4,112.0                            | 14.90           | 193.40      | 4,024.8             | -688.0     | -143.2     | 702.7                 | 0.55                  | -0.43                | -1.29               |
| 4,206.0                            | 14.70           | 192.00      | 4,115.7             | -711.4     | -148.5     | 726.7                 | 0.44                  | -0.21                | -1.49               |
| 4,300.0                            | 12.80           | 192.50      | 4,207.0             | -733.2     | -153.2     | 749.1                 | 2.03                  | -2.02                | 0.53                |
| 4,394.0                            | 10.70           | 194.60      | 4,299.0             | -751.9     | -157.7     | 768.2                 | 2.28                  | -2.23                | 2.23                |
| 4,487.0                            | 9.70            | 193.30      | 4,390.5             | -767.8     | -161.7     | 784.7                 | 1.10                  | -1.08                | -1.40               |
| 4,581.0                            | 8.40            | 192.40      | 4,483.4             | -782.3     | -165.0     | 799.4                 | 1.39                  | -1.38                | -0.96               |
| 4,675.0                            | 7.30            | 193.30      | 4,576.5             | -794.8     | -167.8     | 812.3                 | 1.18                  | -1.17                | 0.96                |
| 4,769.0                            | 5.40            | 193.20      | 4,669.9             | -804.9     | -170.2     | 822.7                 | 2.02                  | -2.02                | -0.11               |
| 4,863.0                            | 4.00            | 186.40      | 4,763.6             | -812.5     | -171.6     | 830.4                 | 1.60                  | -1.49                | -7.23               |
| 4,957.0                            | 3.80            | 188.50      | 4,857.4             | -818.8     | -172.4     | 836.7                 | 0.26                  | -0.21                | 2.23                |
| 5,051.0                            | 3.60            | 195.20      | 4,951.2             | -824.7     | -173.6     | 842.8                 | 0.51                  | -0.21                | 7.13                |
| 5,104.5                            | 3.29            | 201.71      | 5,004.5             | -827.8     | -174.6     | 846.0                 | 0.93                  | -0.57                | 12.18               |
| PERMIT TARGET BHL 50'FSL, 1311'FEL |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,144.0                            | 3.10            | 207.30      | 5,044.0             | -829.8     | -175.6     | 848.1                 | 0.93                  | -0.49                | 14.13               |
| 5,238.0                            | 0.60            | 181.70      | 5,137.9             | -832.5     | -176.7     | 851.1                 | 2.74                  | -2.66                | -27.23              |
| 5,300.5                            | 0.52            | 188.68      | 5,200.4             | -833.1     | -176.8     | 851.7                 | 0.17                  | -0.13                | 11.18               |
| DRILL TARGET BHL 75'FSL, 1311'FEL  |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,425.0                            | 0.40            | 210.00      | 5,324.9             | -834.1     | -177.1     | 852.6                 | 0.17                  | -0.10                | 17.12               |
| 5,613.0                            | 0.70            | 249.70      | 5,512.9             | -835.0     | -178.5     | 853.9                 | 0.25                  | 0.16                 | 21.12               |
| 5,801.0                            | 0.80            | 238.80      | 5,700.9             | -836.1     | -180.7     | 855.4                 | 0.09                  | 0.05                 | -5.80               |
| 5,989.0                            | 0.50            | 255.90      | 5,888.9             | -837.0     | -182.6     | 856.7                 | 0.19                  | -0.16                | 9.10                |
| 6,177.0                            | 0.60            | 301.80      | 6,076.9             | -836.7     | -184.2     | 856.7                 | 0.23                  | 0.05                 | 24.41               |
| 6,364.0                            | 0.70            | 317.50      | 6,263.9             | -835.3     | -185.8     | 855.7                 | 0.11                  | 0.05                 | 8.40                |
| 6,551.0                            | 1.60            | 10.00       | 6,450.8             | -831.9     | -186.2     | 852.5                 | 0.69                  | 0.48                 | 28.07               |
| 6,738.0                            | 2.00            | 15.10       | 6,637.8             | -826.2     | -184.9     | 846.6                 | 0.23                  | 0.21                 | 2.73                |
| 6,926.0                            | 2.30            | 343.20      | 6,825.6             | -819.4     | -185.1     | 840.0                 | 0.65                  | 0.16                 | -16.97              |
| 7,114.0                            | 3.30            | 336.00      | 7,013.4             | -810.8     | -188.4     | 832.4                 | 0.56                  | 0.53                 | -3.83               |
| 7,301.0                            | 4.00            | 344.60      | 7,200.0             | -799.6     | -192.3     | 822.3                 | 0.47                  | 0.37                 | 4.60                |
| 7,489.0                            | 4.30            | 358.00      | 7,387.5             | -786.3     | -194.3     | 809.6                 | 0.54                  | 0.16                 | 7.13                |
| 7,675.0                            | 4.40            | 5.80        | 7,573.0             | -772.2     | -193.8     | 795.8                 | 0.32                  | 0.05                 | 4.19                |
| 7,862.0                            | 1.10            | 59.30       | 7,759.8             | -764.2     | -191.6     | 787.4                 | 2.06                  | -1.76                | 28.61               |
| 8,050.0                            | 1.90            | 138.90      | 7,947.7             | -765.6     | -188.0     | 788.0                 | 1.07                  | 0.43                 | 42.34               |
| 8,237.0                            | 2.20            | 138.80      | 8,134.6             | -770.6     | -183.5     | 792.0                 | 0.16                  | 0.16                 | -0.05               |

|                  |                                  |                                     |                                      |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Synergy Resources                | <b>Local Co-ordinate Reference:</b> | Well Pratt 29TD                      |
| <b>Project:</b>  | SEC.29-T1N-R68W                  | <b>TVD Reference:</b>               | WELL @ 5192.0ft (Original Well Elev) |
| <b>Site:</b>     | Pratt 34-29D Pad Sec.29-T1N-R68W | <b>MD Reference:</b>                | WELL @ 5192.0ft (Original Well Elev) |
| <b>Well:</b>     | Pratt 29TD                       | <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>                    | 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) |
|-----------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 8,425.0                     | 1.70            | 107.10      | 8,322.5             | -774.2     | -178.5     | 794.4                 | 0.62                  | -0.27                | -16.86              |
| 8,551.2                     | 1.56            | 108.98      | 8,448.7             | -775.3     | -175.1     | 794.8                 | 0.12                  | -0.11                | 1.49                |
| <b>HARDLINE 75'S OF BHL</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 8,612.0                     | 1.50            | 110.00      | 8,509.4             | -775.8     | -173.6     | 795.0                 | 0.12                  | -0.11                | 1.68                |
| 8,733.0                     | 1.50            | 104.30      | 8,630.4             | -776.7     | -170.5     | 795.2                 | 0.12                  | 0.00                 | -4.71               |
| 8,777.0                     | 1.50            | 104.30      | 8,674.4             | -777.0     | -169.4     | 795.3                 | 0.00                  | 0.00                 | 0.00                |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|