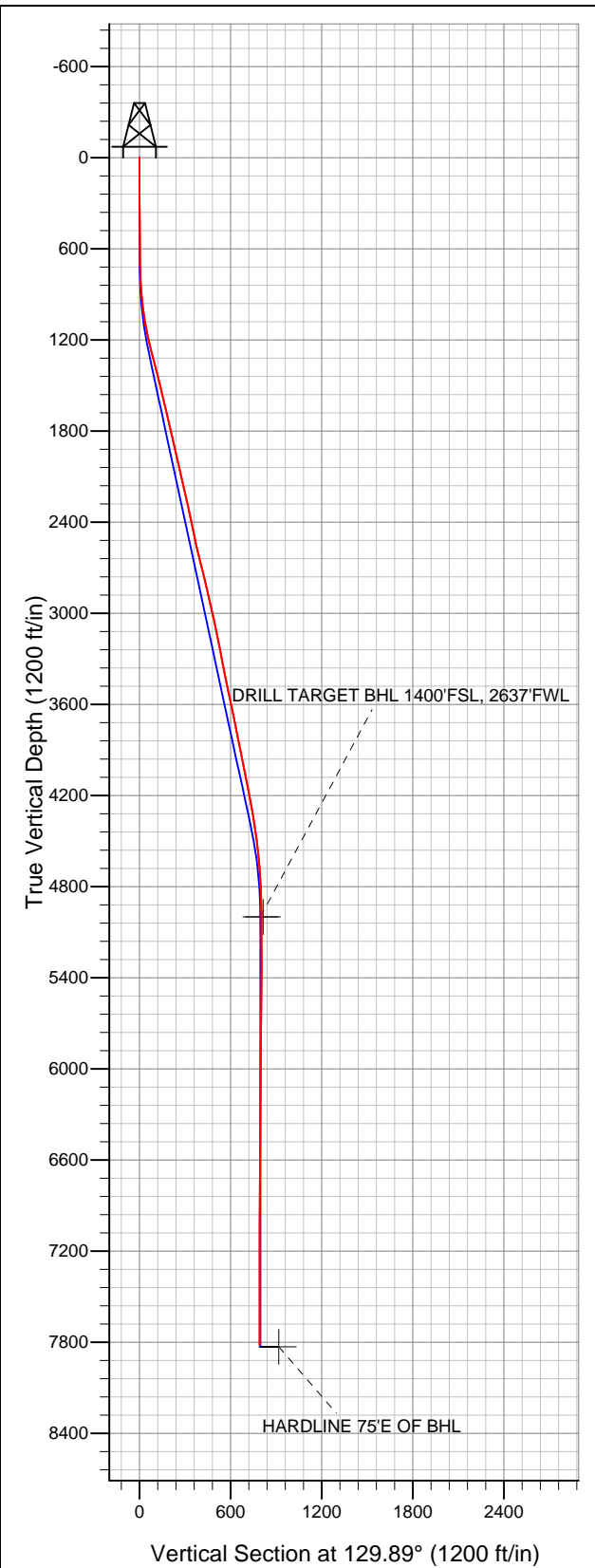


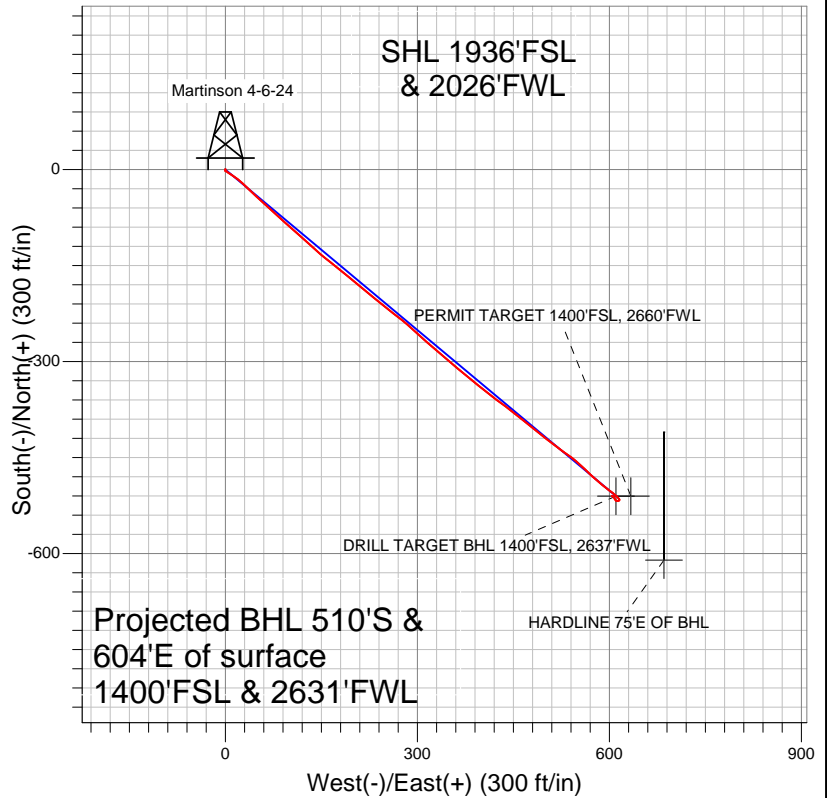
# Well Name: Martinson 4-6-24

Surface Location: Martinson 4-6-24 Pad Sec.24-T4N-R66W  
North American Datum 1983 US State Plane 1983Colorado Northern Zone  
Ground Elevation: 4737.0

| +N/-S | +E/-W | Northing           | Easting    | Latitude                             | Longitude   | Slot |
|-------|-------|--------------------|------------|--------------------------------------|-------------|------|
| 0.0   | 0.0   | 1351513.73         | 3215430.02 | 40.295730                            | -104.727670 |      |
|       |       | Original Well Elev |            | WELL @ 4750.0ft (Original Well Elev) |             |      |



## EnCana Oil & Gas Weld County CO



### LEGEND

- Survey #1
- Martinson 4-6-24, Wellbore #1, Plan #1 (12-2-11) V0
- Wellbore #1

## Final Survey Plot

Projected Final Survey -  
7900'MD & 7817'TVD @ 791'VS  
0.20 deg Inc 138.10 deg AZ

Project: SEC.24-T4N-R66W  
Site: Martinson 4-6-24 Pad Sec.24-T4N-R66W  
Well: Martinson 4-6-24  
Plan: Wellbore #1



# **EnCana Oil & Gas Weld County CO**

**SEC.24-T4N-R66W**

**Martinson 4-6-24 Pad Sec.24-T4N-R66W**

**Martinson 4-6-24**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**23 January, 2012**

|                  |                                      |                                     |                                      |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas Weld County CO      | <b>Local Co-ordinate Reference:</b> | Well Martinson 4-6-24                |
| <b>Project:</b>  | SEC.24-T4N-R66W                      | <b>TVD Reference:</b>               | WELL @ 4750.0ft (Original Well Elev) |
| <b>Site:</b>     | Martinson 4-6-24 Pad Sec.24-T4N-R66W | <b>MD Reference:</b>                | WELL @ 4750.0ft (Original Well Elev) |
| <b>Well:</b>     | Martinson 4-6-24                     | <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.24-T4N-R66W, 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              |                      | Using Well Reference Point  |
| <b>Map Zone:</b>   | Colorado Northern Zone                 |                      | Using geodetic scale factor |

|                       |          |                                      |                |                   |             |
|-----------------------|----------|--------------------------------------|----------------|-------------------|-------------|
| Site                  |          | Martinson 4-6-24 Pad Sec.24-T4N-R66W |                |                   |             |
| Site Position:        |          | Northing:                            | 1,351,513.74ft | Latitude:         | 40.295730   |
| From:                 | Lat/Long | Easting:                             | 3,215,430.02ft | Longitude:        | -104.727670 |
| Position Uncertainty: | 0.0 ft   | Slot Radius:                         | "              | Grid Convergence: | 0.50 °      |

| Well                 | Martinson 4-6-24 |        |                     |                 |               |             |
|----------------------|------------------|--------|---------------------|-----------------|---------------|-------------|
| Well Position        | +N/-S            | 0.0 ft | Northing:           | 1,351,513.73 ft | Latitude:     | 40.295730   |
|                      | +E/-W            | 0.0 ft | Easting:            | 3,215,430.02 ft | Longitude:    | -104.727670 |
| Position Uncertainty |                  | 0.0 ft | Wellhead Elevation: | ft              | Ground Level: | 4,737.0 ft  |

|           |             |             |                 |               |                     |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | Wellbore #1 |             |                 |               |                     |
| Magnetics | Model Name  | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2010    | 12/2/2011   | 8.77            | 66.96         | 53,032              |

|                   |                          |               |               |                   |
|-------------------|--------------------------|---------------|---------------|-------------------|
| 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           | 129.89            |

| Survey Program |         | Date                    | 1/23/2012 |                |  |
|----------------|---------|-------------------------|-----------|----------------|--|
| From (ft)      | To (ft) | Survey (Wellbore)       | Tool Name | Description    |  |
| 94.0           | 7,900.0 | Survey #1 (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) |
| Survey A | 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
|          | 94.0                | 0.20            | 15.50       | 94.0                | 0.2        | 0.0        | -0.1                  | 0.21                  | 0.21                 | 0.00                |
|          | 185.0               | 0.00            | 20.50       | 185.0               | 0.3        | 0.1        | -0.1                  | 0.22                  | -0.22                | 0.00                |
|          | 277.0               | 0.50            | 186.80      | 277.0               | -0.1       | 0.0        | 0.1                   | 0.54                  | 0.54                 | 0.00                |
|          | 368.0               | 0.60            | 199.70      | 368.0               | -0.9       | -0.2       | 0.5                   | 0.17                  | 0.11                 | 14.18               |
|          | 461.0               | 0.70            | 170.10      | 461.0               | -1.9       | -0.2       | 1.1                   | 0.37                  | 0.11                 | -31.83              |
|          | 583.0               | 0.60            | 81.60       | 583.0               | -2.6       | 0.5        | 2.1                   | 0.75                  | -0.08                | -72.54              |
|          | 675.0               | 0.60            | 99.80       | 675.0               | -2.6       | 1.5        | 2.8                   | 0.21                  | 0.00                 | 19.78               |
|          | 769.0               | 1.80            | 134.90      | 769.0               | -3.7       | 3.0        | 4.7                   | 1.44                  | 1.28                 | 37.34               |
|          | 855.0               | 4.10            | 121.80      | 854.8               | -6.3       | 6.6        | 9.1                   | 2.77                  | 2.67                 | -15.23              |
|          | 948.0               | 6.10            | 123.80      | 947.5               | -10.8      | 13.5       | 17.3                  | 2.16                  | 2.15                 | 2.15                |
|          | 1,042.0             | 8.40            | 130.90      | 1,040.7             | -18.1      | 22.9       | 29.1                  | 2.62                  | 2.45                 | 7.55                |
| 1,136.0  | 11.10               | 133.90          | 1,133.3     | -28.8               | 34.6       | 45.0       | 2.92                  | 2.87                  | 3.19                 |                     |

|                  |                                      |                                     |                                      |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas Weld County CO      | <b>Local Co-ordinate Reference:</b> | Well Martinson 4-6-24                |
| <b>Project:</b>  | SEC.24-T4N-R66W                      | <b>TVD Reference:</b>               | WELL @ 4750.0ft (Original Well Elev) |
| <b>Site:</b>     | Martinson 4-6-24 Pad Sec.24-T4N-R66W | <b>MD Reference:</b>                | WELL @ 4750.0ft (Original Well Elev) |
| <b>Well:</b>     | Martinson 4-6-24                     | <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) |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 1,229.0                                    | 13.50           | 133.00      | 1,224.2             | -42.5      | 49.0       | 64.8                  | 2.59                  | 2.58                 | -0.97               |
| 1,323.0                                    | 14.50           | 131.90      | 1,315.4             | -57.8      | 65.7       | 87.5                  | 1.10                  | 1.06                 | -1.17               |
| 1,417.0                                    | 14.50           | 133.00      | 1,406.4             | -73.7      | 83.1       | 111.0                 | 0.29                  | 0.00                 | 1.17                |
| 1,510.0                                    | 13.80           | 131.20      | 1,496.6             | -88.9      | 100.0      | 133.7                 | 0.89                  | -0.75                | -1.94               |
| 1,604.0                                    | 13.10           | 131.80      | 1,588.0             | -103.4     | 116.3      | 155.6                 | 0.76                  | -0.74                | 0.64                |
| 1,698.0                                    | 13.50           | 132.20      | 1,679.5             | -117.9     | 132.4      | 177.2                 | 0.44                  | 0.43                 | 0.43                |
| 1,791.0                                    | 13.00           | 131.10      | 1,770.0             | -132.1     | 148.3      | 198.5                 | 0.60                  | -0.54                | -1.18               |
| 1,885.0                                    | 12.90           | 126.00      | 1,861.6             | -145.2     | 164.8      | 219.5                 | 1.22                  | -0.11                | -5.43               |
| 1,979.0                                    | 13.70           | 130.90      | 1,953.1             | -158.6     | 181.7      | 241.1                 | 1.47                  | 0.85                 | 5.21                |
| 2,072.0                                    | 12.90           | 129.80      | 2,043.6             | -172.5     | 198.0      | 262.5                 | 0.90                  | -0.86                | -1.18               |
| 2,166.0                                    | 12.50           | 129.70      | 2,135.3             | -185.7     | 213.9      | 283.2                 | 0.43                  | -0.43                | -0.11               |
| 2,260.0                                    | 12.80           | 128.00      | 2,227.0             | -198.6     | 229.9      | 303.8                 | 0.51                  | 0.32                 | -1.81               |
| 2,353.0                                    | 12.00           | 128.80      | 2,317.9             | -211.0     | 245.6      | 323.7                 | 0.88                  | -0.86                | 0.86                |
| 2,447.0                                    | 11.80           | 128.60      | 2,409.8             | -223.1     | 260.7      | 343.1                 | 0.22                  | -0.21                | -0.21               |
| 2,541.0                                    | 11.90           | 128.00      | 2,501.8             | -235.1     | 275.8      | 362.4                 | 0.17                  | 0.11                 | -0.64               |
| 2,634.0                                    | 12.90           | 132.80      | 2,592.7             | -248.1     | 291.0      | 382.4                 | 1.54                  | 1.08                 | 5.16                |
| 2,728.0                                    | 14.30           | 131.60      | 2,684.0             | -262.9     | 307.4      | 404.5                 | 1.52                  | 1.49                 | -1.28               |
| 2,822.0                                    | 13.90           | 130.50      | 2,775.2             | -277.9     | 324.7      | 427.3                 | 0.51                  | -0.43                | -1.17               |
| 2,915.0                                    | 13.70           | 131.40      | 2,865.5             | -292.5     | 341.4      | 449.5                 | 0.32                  | -0.22                | 0.97                |
| 3,009.0                                    | 12.20           | 129.90      | 2,957.1             | -306.2     | 357.4      | 470.6                 | 1.64                  | -1.60                | -1.60               |
| 3,103.0                                    | 12.00           | 129.10      | 3,049.0             | -318.7     | 372.6      | 490.3                 | 0.28                  | -0.21                | -0.85               |
| 3,196.0                                    | 11.90           | 129.90      | 3,140.0             | -331.0     | 387.5      | 509.5                 | 0.21                  | -0.11                | 0.86                |
| 3,290.0                                    | 11.00           | 126.50      | 3,232.2             | -342.5     | 402.1      | 528.2                 | 1.20                  | -0.96                | -3.62               |
| 3,384.0                                    | 11.10           | 130.90      | 3,324.4             | -353.8     | 416.1      | 546.2                 | 0.90                  | 0.11                 | 4.68                |
| 3,477.0                                    | 11.30           | 124.30      | 3,415.6             | -364.8     | 430.4      | 564.2                 | 1.39                  | 0.22                 | -7.10               |
| 3,571.0                                    | 12.00           | 127.90      | 3,507.7             | -376.0     | 445.8      | 583.1                 | 1.07                  | 0.74                 | 3.83                |
| 3,665.0                                    | 11.50           | 129.00      | 3,599.7             | -387.9     | 460.8      | 602.3                 | 0.58                  | -0.53                | 1.17                |
| 3,758.0                                    | 11.50           | 130.70      | 3,690.9             | -399.8     | 475.0      | 620.8                 | 0.36                  | 0.00                 | 1.83                |
| 3,852.0                                    | 11.40           | 128.00      | 3,783.0             | -411.6     | 489.4      | 639.5                 | 0.58                  | -0.11                | -2.87               |
| 3,946.0                                    | 11.60           | 127.70      | 3,875.1             | -423.1     | 504.2      | 658.2                 | 0.22                  | 0.21                 | -0.32               |
| 4,039.0                                    | 11.80           | 125.00      | 3,966.2             | -434.3     | 519.4      | 677.0                 | 0.63                  | 0.22                 | -2.90               |
| 4,133.0                                    | 10.40           | 125.80      | 4,058.4             | -444.7     | 534.2      | 695.1                 | 1.50                  | -1.49                | 0.85                |
| 4,227.0                                    | 11.40           | 132.30      | 4,150.7             | -456.0     | 547.9      | 712.8                 | 1.68                  | 1.06                 | 6.91                |
| 4,320.0                                    | 11.30           | 131.90      | 4,241.9             | -468.2     | 561.5      | 731.1                 | 0.14                  | -0.11                | -0.43               |
| 4,414.0                                    | 9.10            | 133.20      | 4,334.4             | -479.5     | 573.8      | 747.7                 | 2.35                  | -2.34                | 1.38                |
| 4,508.0                                    | 8.00            | 130.30      | 4,427.4             | -488.8     | 584.2      | 761.7                 | 1.26                  | -1.17                | -3.09               |
| 4,601.0                                    | 7.30            | 127.80      | 4,519.5             | -496.6     | 593.8      | 774.1                 | 0.83                  | -0.75                | -2.69               |
| 4,695.0                                    | 5.70            | 127.30      | 4,612.9             | -503.1     | 602.2      | 784.7                 | 1.70                  | -1.70                | -0.53               |
| 4,789.0                                    | 3.90            | 130.40      | 4,706.6             | -508.0     | 608.4      | 792.6                 | 1.93                  | -1.91                | 3.30                |
| 4,882.0                                    | 2.00            | 132.10      | 4,799.5             | -511.1     | 612.0      | 797.3                 | 2.04                  | -2.04                | 1.83                |
| 4,976.0                                    | 1.70            | 143.40      | 4,893.4             | -513.3     | 614.0      | 800.3                 | 0.50                  | -0.32                | 12.02               |
| 5,070.0                                    | 0.80            | 136.00      | 4,987.4             | -514.9     | 615.3      | 802.3                 | 0.97                  | -0.96                | -7.87               |
| 5,082.5                                    | 0.73            | 140.76      | 4,999.9             | -515.1     | 615.4      | 802.5                 | 0.78                  | -0.60                | 38.03               |
| <b>DRILL TARGET BHL 1400'FSL, 2637'FWL</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,082.6                                    | 0.72            | 140.80      | 5,000.0             | -515.1     | 615.4      | 802.5                 | 0.78                  | -0.58                | 41.95               |
| <b>PERMIT TARGET 1400'FSL, 2660'FWL</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,163.0                                    | 0.50            | 199.40      | 5,080.4             | -515.8     | 615.6      | 803.1                 | 0.78                  | -0.28                | 72.90               |
| 5,257.0                                    | 0.40            | 235.00      | 5,174.4             | -516.4     | 615.2      | 803.2                 | 0.31                  | -0.11                | 37.87               |
| 5,350.0                                    | 0.40            | 190.40      | 5,267.4             | -516.9     | 614.9      | 803.3                 | 0.33                  | 0.00                 | -47.96              |
| 5,444.0                                    | 0.50            | 220.80      | 5,361.4             | -517.5     | 614.6      | 803.4                 | 0.27                  | 0.11                 | 32.34               |
| 5,538.0                                    | 0.80            | 282.60      | 5,455.4             | -517.7     | 613.7      | 802.8                 | 0.76                  | 0.32                 | 65.74               |
| 5,631.0                                    | 0.90            | 262.90      | 5,548.4             | -517.6     | 612.3      | 801.8                 | 0.33                  | 0.11                 | -21.18              |
| 5,725.0                                    | 0.90            | 279.70      | 5,642.4             | -517.6     | 610.8      | 800.6                 | 0.28                  | 0.00                 | 17.87               |
| 5,819.0                                    | 0.60            | 329.20      | 5,736.4             | -517.0     | 609.9      | 799.5                 | 0.73                  | -0.32                | 52.66               |

|                  |                                      |                                     |                                      |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas Weld County CO      | <b>Local Co-ordinate Reference:</b> | Well Martinson 4-6-24                |
| <b>Project:</b>  | SEC.24-T4N-R66W                      | <b>TVD Reference:</b>               | WELL @ 4750.0ft (Original Well Elev) |
| <b>Site:</b>     | Martinson 4-6-24 Pad Sec.24-T4N-R66W | <b>MD Reference:</b>                | WELL @ 4750.0ft (Original Well Elev) |
| <b>Well:</b>     | Martinson 4-6-24                     | <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) |  |
| 5,912.0              | 0.60            | 339.10      | 5,829.4             | -516.2     | 609.4      | 798.6                 | 0.11                  | 0.00                 | 10.65               |  |
| 6,006.0              | 0.60            | 305.30      | 5,923.3             | -515.4     | 608.9      | 797.7                 | 0.37                  | 0.00                 | -35.96              |  |
| 6,100.0              | 0.40            | 310.70      | 6,017.3             | -514.9     | 608.2      | 796.9                 | 0.22                  | -0.21                | 5.74                |  |
| 6,193.0              | 0.40            | 1.50        | 6,110.3             | -514.4     | 608.0      | 796.4                 | 0.37                  | 0.00                 | 54.62               |  |
| 6,287.0              | 0.40            | 326.80      | 6,204.3             | -513.8     | 607.8      | 795.8                 | 0.25                  | 0.00                 | -36.91              |  |
| 6,381.0              | 0.40            | 349.00      | 6,298.3             | -513.2     | 607.6      | 795.3                 | 0.16                  | 0.00                 | 23.62               |  |
| 6,474.0              | 0.70            | 330.40      | 6,391.3             | -512.4     | 607.2      | 794.5                 | 0.37                  | 0.32                 | -20.00              |  |
| 6,568.0              | 0.40            | 328.50      | 6,485.3             | -511.6     | 606.8      | 793.6                 | 0.32                  | -0.32                | -2.02               |  |
| 6,662.0              | 0.40            | 295.50      | 6,579.3             | -511.2     | 606.3      | 793.0                 | 0.24                  | 0.00                 | -35.11              |  |
| 6,756.0              | 0.20            | 255.30      | 6,673.3             | -511.1     | 605.8      | 792.6                 | 0.30                  | -0.21                | -42.77              |  |
| 6,851.0              | 0.50            | 308.20      | 6,768.3             | -510.9     | 605.3      | 792.1                 | 0.43                  | 0.32                 | 55.68               |  |
| 6,945.0              | 0.40            | 318.50      | 6,862.3             | -510.4     | 604.8      | 791.4                 | 0.14                  | -0.11                | 10.96               |  |
| 7,039.0              | 0.30            | 322.40      | 6,956.3             | -509.9     | 604.4      | 790.8                 | 0.11                  | -0.11                | 4.15                |  |
| 7,134.0              | 0.20            | 192.70      | 7,051.3             | -509.9     | 604.2      | 790.6                 | 0.48                  | -0.11                | -136.53             |  |
| 7,228.0              | 0.20            | 311.70      | 7,145.3             | -509.9     | 604.1      | 790.5                 | 0.37                  | 0.00                 | 126.60              |  |
| 7,322.0              | 0.10            | 143.30      | 7,239.3             | -509.9     | 604.0      | 790.4                 | 0.32                  | -0.11                | -179.15             |  |
| 7,416.0              | 0.10            | 13.70       | 7,333.3             | -509.9     | 604.1      | 790.5                 | 0.19                  | 0.00                 | -137.87             |  |
| 7,511.0              | 0.20            | 201.70      | 7,428.3             | -509.9     | 604.0      | 790.5                 | 0.32                  | 0.11                 | -181.05             |  |
| 7,605.0              | 0.30            | 22.80       | 7,522.3             | -509.9     | 604.1      | 790.5                 | 0.53                  | 0.11                 | -190.32             |  |
| 7,699.0              | 0.10            | 67.90       | 7,616.3             | -509.6     | 604.3      | 790.5                 | 0.26                  | -0.21                | 47.98               |  |
| 7,794.0              | 0.10            | 212.50      | 7,711.3             | -509.7     | 604.3      | 790.5                 | 0.20                  | 0.00                 | 152.21              |  |
| 7,855.0              | 0.20            | 138.10      | 7,772.3             | -509.8     | 604.3      | 790.6                 | 0.32                  | 0.16                 | -121.97             |  |
| 7,900.0              | 0.20            | 138.10      | 7,817.3             | -509.9     | 604.4      | 790.8                 | 0.00                  | 0.00                 | 0.00                |  |
| HARDLINE 75'E OF BHL |                 |             |                     |            |            |                       |                       |                      |                     |  |

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