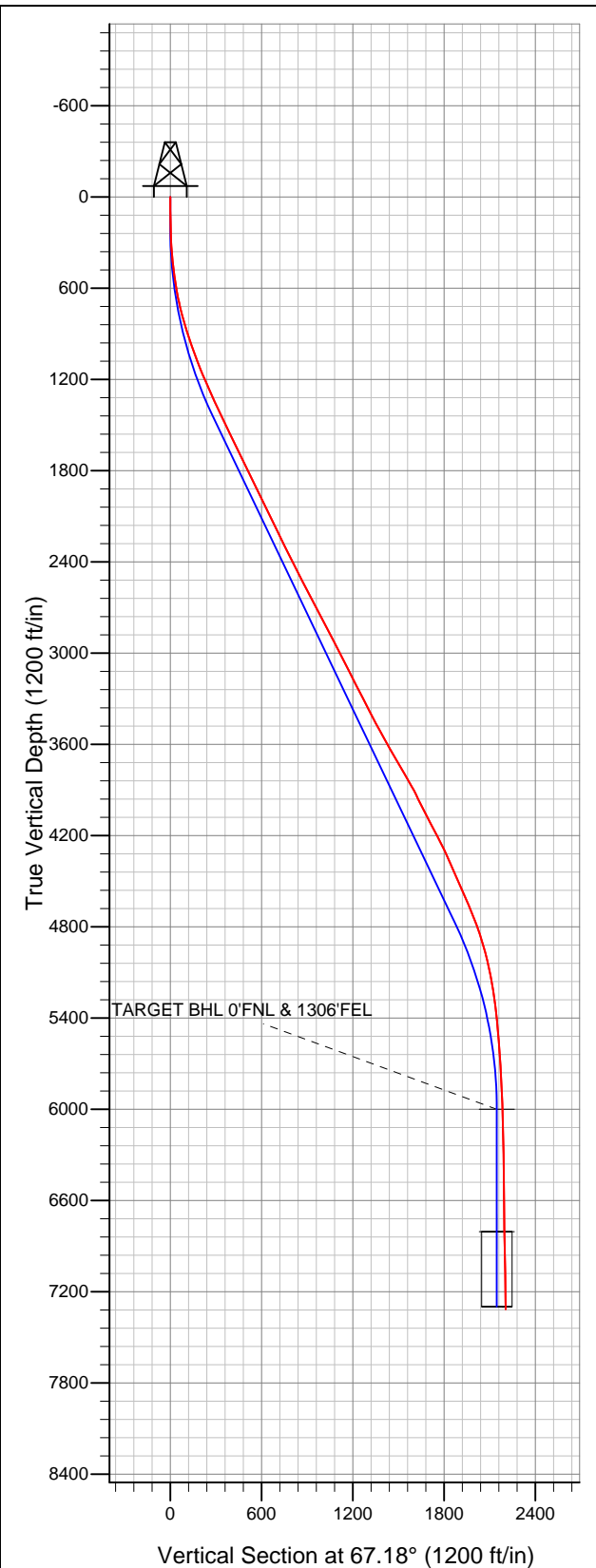


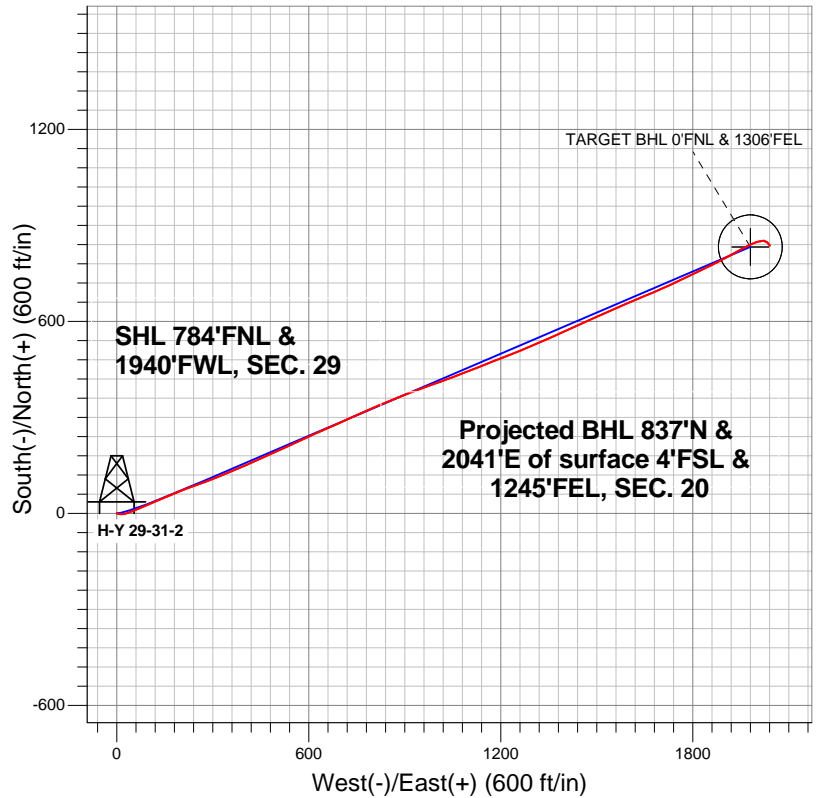
**Well Name: H-Y 29-31-2**

Surface Location: H-Y (East) Pad Sec.29-T6N-R67W  
North American Datum 1983 US State Plane 1983Colorado Northern Zone  
Ground Elevation: 4782.0

|                    |       |                                      |            |           |             |      |
|--------------------|-------|--------------------------------------|------------|-----------|-------------|------|
| +N/-S              | +E/-W | Northing                             | Easting    | Latitude  | Longitude   | Slot |
| 0.0                | 0.0   | 1412030.86                           | 3161526.98 | 40.462975 | -104.919489 |      |
| Original Well Elev |       | WELL @ 4796.0ft (Original Well Elev) |            |           |             |      |



**Great Western**



**LEGEND**

- Wellbore #1
- H-Y 29-31-2, Wellbore #1, Plan #2 (7-2-12) R V0
- Survey #1

**Final Survey Plot**

Projected Final Survey -  
7787'MD & 7314'TVD @ 2206'VS  
2.70 deg Inc 143.10 deg AZ

Project: SEC.29-T6N-R67W  
Site: H-Y (East) Pad Sec.29-T6N-R67W  
Well: H-Y 29-31-2  
Plan: Wellbore #1



## **Great Western**

**SEC.29-T6N-R67W**

**H-Y (East) Pad Sec.29-T6N-R67W**

**H-Y 29-31-2**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**14 July, 2012**

|                  |                                |                                     |                                      |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Great Western                  | <b>Local Co-ordinate Reference:</b> | Well H-Y 29-31-2                     |
| <b>Project:</b>  | SEC.29-T6N-R67W                | <b>TVD Reference:</b>               | WELL @ 4796.0ft (Original Well Elev) |
| <b>Site:</b>     | H-Y (East) Pad Sec.29-T6N-R67W | <b>MD Reference:</b>                | WELL @ 4796.0ft (Original Well Elev) |
| <b>Well:</b>     | H-Y 29-31-2                    | <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-T6N-R67W, Weld County, CO |                      |                             |
| <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                  |          | H-Y (East) Pad Sec.29-T6N-R67W |                 |                   |               |
| Site Position:        |          | Northing:                      | 1,412,090.58 ft | Latitude:         | 40.463139 °   |
| From:                 | Lat/Long | Easting:                       | 3,161,521.31 ft | Longitude:        | -104.919508 ° |
| Position Uncertainty: | 0.0 ft   | Slot Radius:                   | "               | Grid Convergence: | 0.38 °        |

|                             |              |        |                            |                 |                                 |
|-----------------------------|--------------|--------|----------------------------|-----------------|---------------------------------|
| <b>Well</b>                 | H-Y 29-31-2  |        |                            |                 |                                 |
| <b>Well Position</b>        | <b>+N/-S</b> | 0.0 ft | <b>Northing:</b>           | 1,412,030.86 ft | <b>Latitude:</b> 40.462975      |
|                             | <b>+E/-W</b> | 0.0 ft | <b>Easting:</b>            | 3,161,526.98 ft | <b>Longitude:</b> -104.919489   |
| <b>Position Uncertainty</b> |              | 0.0 ft | <b>Wellhead Elevation:</b> | ft              | <b>Ground Level:</b> 4,782.0 ft |

|           |             |             |                 |               |                     |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | Wellbore #1 |             |                 |               |                     |
| Magnetics | Model Name  | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2010    | 7/2/2012    | 8.81            | 67.04         | 53,038              |

|                   |                          |               |               |                  |     |
|-------------------|--------------------------|---------------|---------------|------------------|-----|
| 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           | 67.18            |     |

| Survey Program |         | Date                    | 7/12/2012 |                |  |
|----------------|---------|-------------------------|-----------|----------------|--|
| From (ft)      | To (ft) | Survey (Wellbore)       | Tool Name | Description    |  |
| 87.0           | 7,787.0 | 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 Data | 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
|             | 87.0                | 1.00            | 100.40      | 87.0                | -0.1       | 0.7        | 0.6                   | 1.15                  | 1.15                 | 0.00                |
|             | 180.0               | 1.50            | 105.90      | 180.0               | -0.6       | 2.7        | 2.3                   | 0.55                  | 0.54                 | 5.91                |
|             | 274.0               | 3.20            | 102.50      | 273.9               | -1.5       | 6.5        | 5.4                   | 1.81                  | 1.81                 | -3.62               |
|             | 366.0               | 5.00            | 92.90       | 365.7               | -2.3       | 13.0       | 11.1                  | 2.09                  | 1.96                 | -10.43              |
|             | 456.0               | 6.60            | 81.30       | 455.2               | -1.7       | 22.0       | 19.6                  | 2.20                  | 1.78                 | -12.89              |
|             | 547.0               | 8.30            | 70.70       | 545.4               | 1.3        | 33.4       | 31.3                  | 2.39                  | 1.87                 | -11.65              |
|             | 638.0               | 10.90           | 68.90       | 635.1               | 6.5        | 47.6       | 46.4                  | 2.88                  | 2.86                 | -1.98               |
|             | 729.0               | 13.40           | 68.10       | 724.1               | 13.6       | 65.4       | 65.6                  | 2.75                  | 2.75                 | -0.88               |
|             | 827.0               | 15.70           | 65.40       | 818.9               | 23.3       | 88.0       | 90.2                  | 2.45                  | 2.35                 | -2.76               |
|             | 916.0               | 17.60           | 66.70       | 904.2               | 33.7       | 111.3      | 115.7                 | 2.18                  | 2.13                 | 1.46                |
|             | 1,011.0             | 20.10           | 67.20       | 994.1               | 45.7       | 139.6      | 146.4                 | 2.64                  | 2.63                 | 0.53                |
|             | 1,106.0             | 21.30           | 67.00       | 1,083.0             | 58.7       | 170.5      | 179.9                 | 1.27                  | 1.26                 | -0.21               |

|                  |                                |                                     |                                      |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Great Western                  | <b>Local Co-ordinate Reference:</b> | Well H-Y 29-31-2                     |
| <b>Project:</b>  | SEC.29-T6N-R67W                | <b>TVD Reference:</b>               | WELL @ 4796.0ft (Original Well Elev) |
| <b>Site:</b>     | H-Y (East) Pad Sec.29-T6N-R67W | <b>MD Reference:</b>                | WELL @ 4796.0ft (Original Well Elev) |
| <b>Well:</b>     | H-Y 29-31-2                    | <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) |  |
| 1,202.0             | 22.30           | 68.60       | 1,172.1             | 72.2       | 203.5      | 215.6                 | 1.21                  | 1.04                 | 1.67                |  |
| 1,297.0             | 23.90           | 70.90       | 1,259.5             | 85.1       | 238.5      | 252.8                 | 1.93                  | 1.68                 | 2.42                |  |
| 1,392.0             | 24.90           | 68.80       | 1,346.0             | 98.6       | 275.3      | 292.0                 | 1.39                  | 1.05                 | -2.21               |  |
| 1,488.0             | 25.10           | 68.20       | 1,433.0             | 113.5      | 313.1      | 332.6                 | 0.34                  | 0.21                 | -0.63               |  |
| 1,582.0             | 26.00           | 67.50       | 1,517.8             | 128.8      | 350.6      | 373.1                 | 1.01                  | 0.96                 | -0.74               |  |
| 1,677.0             | 25.90           | 67.40       | 1,603.2             | 144.7      | 389.0      | 414.7                 | 0.11                  | -0.11                | -0.11               |  |
| 1,773.0             | 25.90           | 65.80       | 1,689.6             | 161.4      | 427.5      | 456.6                 | 0.73                  | 0.00                 | -1.67               |  |
| 1,868.0             | 25.80           | 66.00       | 1,775.1             | 178.3      | 465.3      | 498.0                 | 0.14                  | -0.11                | 0.21                |  |
| 1,963.0             | 26.20           | 64.90       | 1,860.5             | 195.6      | 503.2      | 539.6                 | 0.66                  | 0.42                 | -1.16               |  |
| 2,058.0             | 26.20           | 65.40       | 1,945.7             | 213.2      | 541.2      | 581.5                 | 0.23                  | 0.00                 | 0.53                |  |
| 2,153.0             | 26.10           | 64.60       | 2,031.0             | 230.9      | 579.2      | 623.4                 | 0.39                  | -0.11                | -0.84               |  |
| 2,247.0             | 26.50           | 66.30       | 2,115.3             | 248.2      | 617.0      | 665.0                 | 0.91                  | 0.43                 | 1.81                |  |
| 2,342.0             | 25.10           | 66.10       | 2,200.8             | 264.9      | 654.9      | 706.3                 | 1.48                  | -1.47                | -0.21               |  |
| 2,437.0             | 26.00           | 66.00       | 2,286.5             | 281.5      | 692.3      | 747.3                 | 0.95                  | 0.95                 | -0.11               |  |
| 2,532.0             | 27.30           | 66.50       | 2,371.4             | 298.7      | 731.3      | 789.9                 | 1.39                  | 1.37                 | 0.53                |  |
| 2,627.0             | 27.40           | 65.40       | 2,455.8             | 316.5      | 771.2      | 833.6                 | 0.54                  | 0.11                 | -1.16               |  |
| 2,722.0             | 27.00           | 65.60       | 2,540.3             | 334.5      | 810.7      | 877.0                 | 0.43                  | -0.42                | 0.21                |  |
| 2,817.0             | 26.70           | 68.40       | 2,625.0             | 351.2      | 850.2      | 919.9                 | 1.37                  | -0.32                | 2.95                |  |
| 2,912.0             | 27.40           | 68.90       | 2,709.7             | 367.0      | 890.4      | 963.0                 | 0.77                  | 0.74                 | 0.53                |  |
| 3,007.0             | 28.20           | 69.70       | 2,793.7             | 382.6      | 931.9      | 1,007.3               | 0.93                  | 0.84                 | 0.84                |  |
| 3,102.0             | 28.10           | 69.30       | 2,877.5             | 398.3      | 973.8      | 1,052.1               | 0.22                  | -0.11                | -0.42               |  |
| 3,195.0             | 26.70           | 70.90       | 2,960.0             | 412.9      | 1,014.1    | 1,094.8               | 1.70                  | -1.51                | 1.72                |  |
| 3,287.0             | 27.30           | 68.90       | 3,042.0             | 427.2      | 1,053.3    | 1,136.6               | 1.18                  | 0.65                 | -2.17               |  |
| 3,380.0             | 26.90           | 68.60       | 3,124.8             | 442.6      | 1,092.8    | 1,178.9               | 0.45                  | -0.43                | -0.32               |  |
| 3,475.0             | 27.30           | 68.40       | 3,209.4             | 458.5      | 1,133.0    | 1,222.2               | 0.43                  | 0.42                 | -0.21               |  |
| 3,572.0             | 26.60           | 69.10       | 3,295.8             | 474.4      | 1,174.0    | 1,266.1               | 0.79                  | -0.72                | 0.72                |  |
| 3,668.0             | 27.20           | 67.90       | 3,381.4             | 490.3      | 1,214.4    | 1,309.5               | 0.84                  | 0.63                 | -1.25               |  |
| 3,761.0             | 28.00           | 67.50       | 3,463.8             | 506.7      | 1,254.3    | 1,352.6               | 0.88                  | 0.86                 | -0.43               |  |
| 3,855.0             | 29.20           | 67.70       | 3,546.4             | 523.8      | 1,295.9    | 1,397.6               | 1.28                  | 1.28                 | 0.21                |  |
| 3,950.0             | 29.90           | 66.30       | 3,629.0             | 542.1      | 1,339.0    | 1,444.5               | 1.03                  | 0.74                 | -1.47               |  |
| 4,045.0             | 30.50           | 66.30       | 3,711.1             | 561.3      | 1,382.8    | 1,492.2               | 0.63                  | 0.63                 | 0.00                |  |
| 4,139.0             | 30.00           | 65.40       | 3,792.3             | 580.7      | 1,426.0    | 1,539.6               | 0.72                  | -0.53                | -0.96               |  |
| 4,235.0             | 29.00           | 65.40       | 3,875.9             | 600.4      | 1,469.0    | 1,586.8               | 1.04                  | -1.04                | 0.00                |  |
| 4,329.0             | 26.20           | 65.10       | 3,959.2             | 618.6      | 1,508.5    | 1,630.4               | 2.98                  | -2.98                | -0.32               |  |
| 4,423.0             | 27.10           | 65.60       | 4,043.2             | 636.2      | 1,546.8    | 1,672.5               | 0.99                  | 0.96                 | 0.53                |  |
| 4,516.0             | 27.30           | 67.50       | 4,125.9             | 653.1      | 1,585.8    | 1,715.0               | 0.96                  | 0.22                 | 2.04                |  |
| 4,610.0             | 27.50           | 67.70       | 4,209.4             | 669.6      | 1,625.8    | 1,758.3               | 0.23                  | 0.21                 | 0.21                |  |
| 4,705.0             | 25.90           | 66.70       | 4,294.2             | 686.1      | 1,665.2    | 1,800.9               | 1.75                  | -1.68                | -1.05               |  |
| 4,800.0             | 24.10           | 66.80       | 4,380.3             | 702.0      | 1,702.1    | 1,841.1               | 1.90                  | -1.89                | 0.11                |  |
| 4,895.0             | 23.30           | 64.90       | 4,467.3             | 717.6      | 1,736.9    | 1,879.3               | 1.16                  | -0.84                | -2.00               |  |
| 4,990.0             | 23.50           | 63.70       | 4,554.5             | 733.9      | 1,770.9    | 1,916.9               | 0.54                  | 0.21                 | -1.26               |  |
| 5,085.0             | 23.50           | 64.60       | 4,641.6             | 750.5      | 1,805.0    | 1,954.8               | 0.38                  | 0.00                 | 0.95                |  |
| 5,180.0             | 22.40           | 64.40       | 4,729.1             | 766.4      | 1,838.4    | 1,991.8               | 1.16                  | -1.16                | -0.21               |  |
| 5,275.0             | 18.70           | 63.00       | 4,818.0             | 781.1      | 1,868.3    | 2,025.0               | 3.93                  | -3.89                | -1.47               |  |
| 5,370.0             | 16.70           | 61.90       | 4,908.5             | 794.5      | 1,893.9    | 2,053.8               | 2.13                  | -2.11                | -1.16               |  |
| 5,465.0             | 14.10           | 61.20       | 5,000.1             | 806.5      | 1,916.1    | 2,078.9               | 2.74                  | -2.74                | -0.74               |  |
| 5,560.0             | 12.00           | 61.60       | 5,092.7             | 816.8      | 1,934.9    | 2,100.3               | 2.21                  | -2.21                | 0.42                |  |
| 5,655.0             | 9.60            | 61.40       | 5,186.0             | 825.3      | 1,950.6    | 2,118.0               | 2.53                  | -2.53                | -0.21               |  |
| 5,749.0             | 7.50            | 62.60       | 5,278.9             | 831.8      | 1,962.9    | 2,131.9               | 2.24                  | -2.23                | 1.28                |  |
| 5,844.0             | 6.50            | 62.40       | 5,373.2             | 837.2      | 1,973.2    | 2,143.4               | 1.05                  | -1.05                | -0.21               |  |
| 5,939.0             | 5.20            | 67.20       | 5,467.7             | 841.3      | 1,981.9    | 2,153.1               | 1.46                  | -1.37                | 5.05                |  |
| 6,034.0             | 4.40            | 68.80       | 5,562.4             | 844.3      | 1,989.3    | 2,161.0               | 0.85                  | -0.84                | 1.68                |  |
| 6,125.0             | 3.80            | 70.70       | 5,653.1             | 846.6      | 1,995.4    | 2,167.5               | 0.68                  | -0.66                | 2.09                |  |
| 6,220.0             | 3.00            | 74.60       | 5,748.0             | 848.3      | 2,000.8    | 2,173.2               | 0.88                  | -0.84                | 4.11                |  |

|                  |                                |                                     |                                      |
|------------------|--------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Great Western                  | <b>Local Co-ordinate Reference:</b> | Well H-Y 29-31-2                     |
| <b>Project:</b>  | SEC.29-T6N-R67W                | <b>TVD Reference:</b>               | WELL @ 4796.0ft (Original Well Elev) |
| <b>Site:</b>     | H-Y (East) Pad Sec.29-T6N-R67W | <b>MD Reference:</b>                | WELL @ 4796.0ft (Original Well Elev) |
| <b>Well:</b>     | H-Y 29-31-2                    | <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) |  |
| 6,315.0                        | 2.60            | 75.50       | 5,842.9             | 849.5     | 2,005.2   | 2,177.7               | 0.42                  | -0.42                | 0.95                |  |
| 6,409.0                        | 2.20            | 79.50       | 5,936.8             | 850.3     | 2,009.1   | 2,181.6               | 0.46                  | -0.43                | 4.26                |  |
| 6,471.1                        | 1.94            | 80.59       | 5,998.8             | 850.7     | 2,011.3   | 2,183.8               | 0.43                  | -0.42                | 1.76                |  |
| TARGET BHL 0'FNL & 1306'FEL    |                 |             |                     |           |           |                       |                       |                      |                     |  |
| 6,504.0                        | 1.80            | 81.30       | 6,031.7             | 850.9     | 2,012.4   | 2,184.8               | 0.43                  | -0.42                | 2.15                |  |
| 6,599.0                        | 1.50            | 81.80       | 6,126.7             | 851.3     | 2,015.1   | 2,187.5               | 0.32                  | -0.32                | 0.53                |  |
| 6,789.0                        | 1.10            | 77.60       | 6,316.6             | 852.0     | 2,019.3   | 2,191.7               | 0.22                  | -0.21                | -2.21               |  |
| 6,978.0                        | 0.90            | 102.00      | 6,505.6             | 852.1     | 2,022.5   | 2,194.7               | 0.25                  | -0.11                | 12.91               |  |
| 7,168.0                        | 0.40            | 165.30      | 6,695.6             | 851.2     | 2,024.1   | 2,195.8               | 0.42                  | -0.26                | 33.32               |  |
| 7,276.8                        | 1.14            | 114.58      | 6,804.4             | 850.4     | 2,025.2   | 2,196.5               | 0.86                  | 0.68                 | -46.61              |  |
| TARGET CIRCLE 0'FNL & 1306'FEL |                 |             |                     |           |           |                       |                       |                      |                     |  |
| 7,357.0                        | 1.80            | 107.30      | 6,884.6             | 849.7     | 2,027.2   | 2,198.0               | 0.86                  | 0.83                 | -9.08               |  |
| 7,547.0                        | 2.70            | 132.80      | 7,074.4             | 845.7     | 2,033.3   | 2,202.1               | 0.70                  | 0.47                 | 13.42               |  |
| 7,737.0                        | 2.70            | 143.10      | 7,264.2             | 839.1     | 2,039.3   | 2,205.1               | 0.26                  | 0.00                 | 5.42                |  |
| 7,787.0                        | 2.70            | 143.10      | 7,314.2             | 837.2     | 2,040.7   | 2,205.6               | 0.00                  | 0.00                 | 0.00                |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_