

Well Name: **Riverbend 32-18**

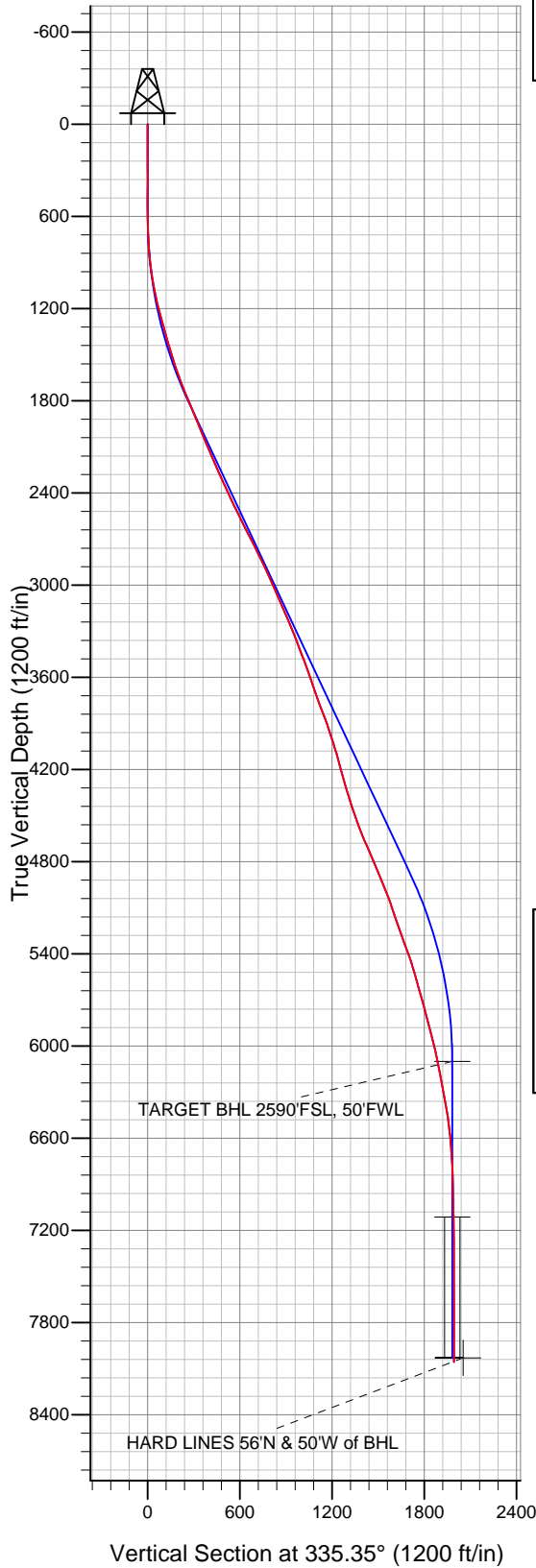
Surface Location: Riverbend 13-18 Pad Sec.18-T1N-R66W  
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4919.0

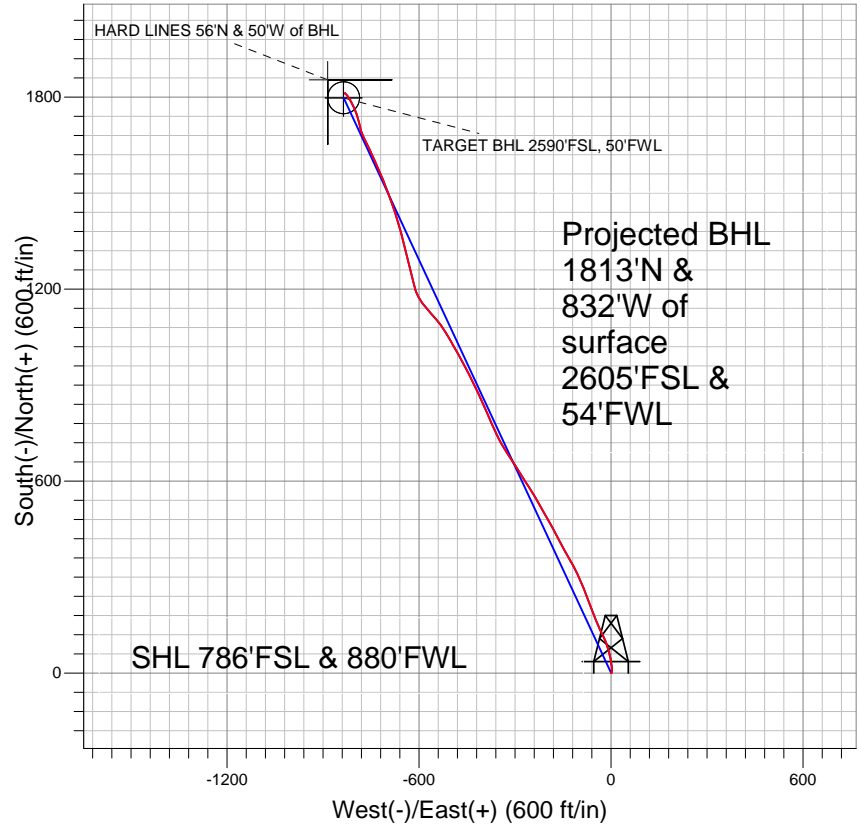
| +N/-S | +E/-W | Northing   | Easting    | Latitude        | Longitude         |
|-------|-------|------------|------------|-----------------|-------------------|
| 0.0   | 0.0   | 1260321.23 | 3188540.35 | 40° 2' 45.618 N | 104° 49' 35.580 W |

Original Well Elev WELL @ 4934.0ft (Original Well Elev)

Slot



## Anadarko, Weld County CO



### LEGEND

- × Riverbend 32-18, Wellbore #1, Plan #1 (10-12-10) V0
- Wellbore #1
- Survey #1

## Final Survey Plot

Projected Final Survey -  
8411'MD & 8057'TVD @ 1994' VS  
0.1 deg Inc 315.4 deg AZ

Project: SEC.18-T1N-R66W  
Site: Riverbend 13-18 Pad Sec.18-T1N-R66W  
Well: Riverbend 32-18  
Plan: Wellbore #1



## **Directional**

### **Anadarko, Weld County CO**

**SEC.18-T1N-R66W**

**Riverbend 13-18 Pad Sec.18-T1N-R66W**

**Riverbend 32-18**

**Wellbore #1**

**Design: Wellbore #1**

### **Standard Survey Report**

**09 November, 2010**

|                  |                                     |                                     |                                      |
|------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Anadarko, Weld County CO            | <b>Local Co-ordinate Reference:</b> | Well Riverbend 32-18                 |
| <b>Project:</b>  | SEC.18-T1N-R66W                     | <b>TVD Reference:</b>               | WELL @ 4934.0ft (Original Well Elev) |
| <b>Site:</b>     | Riverbend 13-18 Pad Sec.18-T1N-R66W | <b>MD Reference:</b>                | WELL @ 4934.0ft (Original Well Elev) |
| <b>Well:</b>     | Riverbend 32-18                     | <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.18-T1N-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 |

|                              |                                     |                          |                   |
|------------------------------|-------------------------------------|--------------------------|-------------------|
| <b>Site</b>                  | Riverbend 13-18 Pad Sec.18-T1N-R66W |                          |                   |
| <b>Site Position:</b>        |                                     | <b>Northing:</b>         | 1,260,291.37 ft   |
| <b>From:</b>                 | Lat/Long                            | <b>Easting:</b>          | 3,188,540.86 ft   |
| <b>Position Uncertainty:</b> | 0.0 ft                              | <b>Slot Radius:</b>      | "                 |
|                              |                                     | <b>Latitude:</b>         | 40° 2' 45.323 N   |
|                              |                                     | <b>Longitude:</b>        | 104° 49' 35.576 W |
|                              |                                     | <b>Grid Convergence:</b> | 0.44 °            |

|                             |                 |        |                            |
|-----------------------------|-----------------|--------|----------------------------|
| <b>Well</b>                 | Riverbend 32-18 |        |                            |
| <b>Well Position</b>        | <b>+N/-S</b>    | 0.0 ft | <b>Northing:</b>           |
|                             | <b>+E/-W</b>    | 0.0 ft | <b>Easting:</b>            |
| <b>Position Uncertainty</b> |                 | 0.0 ft | <b>Wellhead Elevation:</b> |
|                             |                 |        | <b>Latitude:</b>           |
|                             |                 |        | <b>Longitude:</b>          |
|                             |                 |        | <b>Ground Level:</b>       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <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          | 10/12/2010         | 8.96                   | 66.78                | 53,008                     |

|                          |                              |                   |                   |                      |     |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| <b>Design</b>            | Wellbore #1                  |                   |                   |                      |     |
| <b>Audit Notes:</b>      |                              |                   |                   |                      |     |
| <b>Version:</b>          | 1.0                          | <b>Phase:</b>     | ACTUAL            | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b> |     |
|                          | 0.0                          | 0.0               | 0.0               | 335.35               |     |

|                       |                |                          |                  |                    |  |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 11/9/2010                |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| 177.0                 | 8,411.0        | 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                       |  |
| 177.0                      | 0.50                   | 30.20              | 177.0                      | 0.7               | 0.4               | 0.4                          | 0.28                         | 0.28                        | 0.00                       |  |
| 270.0                      | 1.10                   | 40.30              | 270.0                      | 1.7               | 1.2               | 1.1                          | 0.66                         | 0.65                        | 10.86                      |  |
| 365.0                      | 0.40                   | 110.40             | 365.0                      | 2.3               | 2.1               | 1.2                          | 1.09                         | -0.74                       | 73.79                      |  |
| 455.0                      | 0.40                   | 84.60              | 455.0                      | 2.2               | 2.7               | 0.9                          | 0.20                         | 0.00                        | -28.67                     |  |
| 545.0                      | 1.10                   | 279.00             | 545.0                      | 2.4               | 2.1               | 1.3                          | 1.66                         | 0.78                        | -184.00                    |  |
| 634.0                      | 0.80                   | 30.40              | 634.0                      | 3.0               | 1.6               | 2.1                          | 1.77                         | -0.34                       | 125.17                     |  |
| 721.0                      | 2.50                   | 9.10               | 720.9                      | 5.4               | 2.2               | 4.0                          | 2.04                         | 1.95                        | -24.48                     |  |
| 812.0                      | 4.40                   | 3.70               | 811.8                      | 10.9              | 2.8               | 8.7                          | 2.12                         | 2.09                        | -5.93                      |  |
| 907.0                      | 7.30                   | 350.20             | 906.3                      | 20.5              | 2.0               | 17.8                         | 3.36                         | 3.05                        | -14.21                     |  |
| 1,038.0                    | 10.50                  | 349.90             | 1,035.7                    | 40.4              | -1.5              | 37.4                         | 2.44                         | 2.44                        | -0.23                      |  |
| 1,125.0                    | 11.90                  | 348.80             | 1,121.0                    | 57.0              | -4.7              | 53.8                         | 1.63                         | 1.61                        | -1.26                      |  |
| 1,216.0                    | 14.50                  | 342.20             | 1,209.6                    | 77.1              | -10.0             | 74.2                         | 3.30                         | 2.86                        | -7.25                      |  |

|                  |                                     |                                     |                                      |
|------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Anadarko, Weld County CO            | <b>Local Co-ordinate Reference:</b> | Well Riverbend 32-18                 |
| <b>Project:</b>  | SEC.18-T1N-R66W                     | <b>TVD Reference:</b>               | WELL @ 4934.0ft (Original Well Elev) |
| <b>Site:</b>     | Riverbend 13-18 Pad Sec.18-T1N-R66W | <b>MD Reference:</b>                | WELL @ 4934.0ft (Original Well Elev) |
| <b>Well:</b>     | Riverbend 32-18                     | <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) |  |
| 1,306.0             | 15.50           | 339.10      | 1,296.5             | 99.0       | -17.7      | 97.4                  | 1.42                  | 1.11                 | -3.44               |  |
| 1,397.0             | 16.60           | 331.40      | 1,384.0             | 121.8      | -28.3      | 122.5                 | 2.63                  | 1.21                 | -8.46               |  |
| 1,485.0             | 16.30           | 337.20      | 1,468.4             | 144.2      | -39.1      | 147.4                 | 1.90                  | -0.34                | 6.59                |  |
| 1,574.0             | 17.60           | 339.30      | 1,553.5             | 168.3      | -48.7      | 173.3                 | 1.61                  | 1.46                 | 2.36                |  |
| 1,665.0             | 20.20           | 338.50      | 1,639.6             | 195.8      | -59.3      | 202.7                 | 2.87                  | 2.86                 | -0.88               |  |
| 1,753.0             | 22.10           | 340.20      | 1,721.7             | 225.5      | -70.5      | 234.4                 | 2.27                  | 2.16                 | 1.93                |  |
| 1,844.0             | 22.90           | 336.70      | 1,805.8             | 257.9      | -83.3      | 269.2                 | 1.71                  | 0.88                 | -3.85               |  |
| 1,932.0             | 23.10           | 337.40      | 1,886.8             | 289.6      | -96.7      | 303.5                 | 0.39                  | 0.23                 | 0.80                |  |
| 2,023.0             | 21.70           | 333.40      | 1,970.9             | 321.1      | -111.1     | 338.2                 | 2.27                  | -1.54                | -4.40               |  |
| 2,113.0             | 22.30           | 329.60      | 2,054.4             | 350.7      | -127.2     | 371.8                 | 1.72                  | 0.67                 | -4.22               |  |
| 2,203.0             | 23.40           | 331.60      | 2,137.3             | 381.2      | -144.3     | 406.6                 | 1.50                  | 1.22                 | 2.22                |  |
| 2,294.0             | 23.80           | 332.40      | 2,220.7             | 413.3      | -161.4     | 443.0                 | 0.56                  | 0.44                 | 0.88                |  |
| 2,385.0             | 25.10           | 331.90      | 2,303.5             | 446.6      | -179.0     | 480.6                 | 1.45                  | 1.43                 | -0.55               |  |
| 2,474.0             | 23.80           | 329.80      | 2,384.5             | 478.8      | -196.9     | 517.3                 | 1.76                  | -1.46                | -2.36               |  |
| 2,564.0             | 25.80           | 330.40      | 2,466.2             | 511.5      | -215.8     | 554.9                 | 2.24                  | 2.22                 | 0.67                |  |
| 2,653.0             | 26.90           | 329.80      | 2,546.0             | 545.8      | -235.5     | 594.2                 | 1.27                  | 1.24                 | -0.67               |  |
| 2,742.0             | 26.80           | 327.20      | 2,625.4             | 580.0      | -256.4     | 634.1                 | 1.32                  | -0.11                | -2.92               |  |
| 2,830.0             | 27.70           | 328.40      | 2,703.6             | 614.1      | -277.9     | 674.1                 | 1.20                  | 1.02                 | 1.36                |  |
| 2,921.0             | 26.20           | 326.50      | 2,784.7             | 648.9      | -300.1     | 714.9                 | 1.90                  | -1.65                | -2.09               |  |
| 3,011.0             | 25.40           | 327.30      | 2,865.8             | 681.7      | -321.5     | 753.7                 | 0.97                  | -0.89                | 0.89                |  |
| 3,100.0             | 24.70           | 330.20      | 2,946.4             | 713.9      | -341.0     | 791.1                 | 1.59                  | -0.79                | 3.26                |  |
| 3,190.0             | 24.00           | 334.30      | 3,028.4             | 746.7      | -358.3     | 828.1                 | 2.03                  | -0.78                | 4.56                |  |
| 3,279.0             | 23.40           | 336.40      | 3,109.9             | 779.2      | -373.2     | 863.9                 | 1.16                  | -0.67                | 2.36                |  |
| 3,368.0             | 23.10           | 337.70      | 3,191.7             | 811.6      | -386.9     | 899.0                 | 0.67                  | -0.34                | 1.46                |  |
| 3,457.0             | 23.20           | 334.10      | 3,273.5             | 843.5      | -401.2     | 934.0                 | 1.59                  | 0.11                 | -4.04               |  |
| 3,546.0             | 21.00           | 336.40      | 3,356.0             | 873.9      | -415.3     | 967.5                 | 2.66                  | -2.47                | 2.58                |  |
| 3,636.0             | 20.70           | 333.60      | 3,440.1             | 902.9      | -428.8     | 999.5                 | 1.16                  | -0.33                | -3.11               |  |
| 3,727.0             | 19.90           | 333.50      | 3,525.4             | 931.2      | -442.9     | 1,031.0               | 0.88                  | -0.88                | -0.11               |  |
| 3,817.0             | 19.20           | 332.60      | 3,610.2             | 958.0      | -456.5     | 1,061.1               | 0.85                  | -0.78                | -1.00               |  |
| 3,907.0             | 18.90           | 328.60      | 3,695.3             | 983.6      | -470.9     | 1,090.4               | 1.49                  | -0.33                | -4.44               |  |
| 3,998.0             | 21.20           | 331.90      | 3,780.8             | 1,010.7    | -486.3     | 1,121.5               | 2.82                  | 2.53                 | 3.63                |  |
| 4,086.0             | 20.10           | 330.30      | 3,863.1             | 1,037.9    | -501.3     | 1,152.4               | 1.40                  | -1.25                | -1.82               |  |
| 4,177.0             | 18.50           | 327.40      | 3,949.0             | 1,063.6    | -516.9     | 1,182.3               | 2.05                  | -1.76                | -3.19               |  |
| 4,267.0             | 18.00           | 325.00      | 4,034.5             | 1,087.1    | -532.5     | 1,210.1               | 1.00                  | -0.56                | -2.67               |  |
| 4,358.0             | 16.30           | 319.10      | 4,121.5             | 1,108.2    | -549.0     | 1,236.2               | 2.67                  | -1.87                | -6.48               |  |
| 4,446.0             | 15.20           | 315.80      | 4,206.1             | 1,125.8    | -565.1     | 1,258.9               | 1.61                  | -1.25                | -3.75               |  |
| 4,535.0             | 18.00           | 321.50      | 4,291.4             | 1,145.0    | -581.8     | 1,283.3               | 3.64                  | 3.15                 | 6.40                |  |
| 4,624.0             | 17.80           | 328.30      | 4,376.1             | 1,167.3    | -597.5     | 1,310.1               | 2.36                  | -0.22                | 7.64                |  |
| 4,713.0             | 17.20           | 339.40      | 4,461.0             | 1,191.2    | -609.3     | 1,336.8               | 3.80                  | -0.67                | 12.47               |  |
| 4,800.0             | 20.00           | 345.80      | 4,543.5             | 1,217.7    | -617.5     | 1,364.2               | 3.98                  | 3.22                 | 7.36                |  |
| 4,891.0             | 23.30           | 348.00      | 4,628.1             | 1,250.4    | -625.0     | 1,397.1               | 3.73                  | 3.63                 | 2.42                |  |
| 4,968.0             | 24.40           | 346.00      | 4,698.5             | 1,280.7    | -632.0     | 1,427.6               | 1.77                  | 1.43                 | -2.60               |  |
| 5,062.0             | 23.20           | 345.10      | 4,784.5             | 1,317.4    | -641.5     | 1,464.9               | 1.33                  | -1.28                | -0.96               |  |
| 5,153.0             | 22.50           | 345.10      | 4,868.4             | 1,351.6    | -650.6     | 1,499.8               | 0.77                  | -0.77                | 0.00                |  |
| 5,239.0             | 23.40           | 345.30      | 4,947.5             | 1,384.0    | -659.1     | 1,532.8               | 1.05                  | 1.05                 | 0.23                |  |
| 5,330.0             | 20.70           | 344.30      | 5,031.9             | 1,417.0    | -668.1     | 1,566.5               | 3.00                  | -2.97                | -1.10               |  |
| 5,421.0             | 18.30           | 340.70      | 5,117.7             | 1,445.9    | -677.2     | 1,596.6               | 2.95                  | -2.64                | -3.96               |  |
| 5,507.0             | 18.60           | 339.20      | 5,199.2             | 1,471.5    | -686.5     | 1,623.7               | 0.65                  | 0.35                 | -1.74               |  |
| 5,598.0             | 20.20           | 339.60      | 5,285.1             | 1,499.8    | -697.1     | 1,653.9               | 1.76                  | 1.76                 | 0.44                |  |
| 5,687.0             | 21.00           | 339.70      | 5,368.4             | 1,529.2    | -708.0     | 1,685.1               | 0.90                  | 0.90                 | 0.11                |  |
| 5,778.0             | 17.80           | 334.90      | 5,454.2             | 1,557.1    | -719.6     | 1,715.3               | 3.93                  | -3.52                | -5.27               |  |
| 5,866.0             | 15.90           | 338.00      | 5,538.4             | 1,580.4    | -729.8     | 1,740.8               | 2.39                  | -2.16                | 3.52                |  |
| 5,955.0             | 15.60           | 335.40      | 5,624.1             | 1,602.6    | -739.3     | 1,764.9               | 0.86                  | -0.34                | -2.92               |  |
| 6,046.0             | 15.60           | 335.90      | 5,711.7             | 1,624.9    | -749.4     | 1,789.4               | 0.15                  | 0.00                 | 0.55                |  |

|                  |                                     |                                     |                                      |
|------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Anadarko, Weld County CO            | <b>Local Co-ordinate Reference:</b> | Well Riverbend 32-18                 |
| <b>Project:</b>  | SEC.18-T1N-R66W                     | <b>TVD Reference:</b>               | WELL @ 4934.0ft (Original Well Elev) |
| <b>Site:</b>     | Riverbend 13-18 Pad Sec.18-T1N-R66W | <b>MD Reference:</b>                | WELL @ 4934.0ft (Original Well Elev) |
| <b>Well:</b>     | Riverbend 32-18                     | <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) |
|------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,135.0                                  | 14.70           | 333.60      | 5,797.6             | 1,645.9    | -759.3     | 1,812.6               | 1.22                  | -1.01                | -2.58               |
| 6,224.0                                  | 14.20           | 332.80      | 5,883.8             | 1,665.8    | -769.3     | 1,834.8               | 0.60                  | -0.56                | -0.90               |
| 6,313.0                                  | 14.70           | 339.10      | 5,970.0             | 1,686.0    | -778.4     | 1,857.0               | 1.85                  | 0.56                 | 7.08                |
| 6,402.0                                  | 12.70           | 346.10      | 6,056.5             | 1,706.1    | -784.7     | 1,877.9               | 2.92                  | -2.25                | 7.87                |
| 6,465.4                                  | 11.48           | 346.65      | 6,118.4             | 1,719.0    | -787.9     | 1,890.9               | 1.94                  | -1.93                | 0.87                |
| <b>TARGET BHL 2590'FSL, 50'FWL</b>       |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,490.0                                  | 11.00           | 346.90      | 6,142.6             | 1,723.6    | -789.0     | 1,895.6               | 1.94                  | -1.93                | 1.00                |
| 6,580.0                                  | 10.50           | 343.90      | 6,231.0             | 1,739.9    | -793.2     | 1,912.2               | 0.83                  | -0.56                | -3.33               |
| 6,669.0                                  | 10.60           | 338.20      | 6,318.5             | 1,755.3    | -798.5     | 1,928.3               | 1.18                  | 0.11                 | -6.40               |
| 6,758.0                                  | 9.90            | 333.70      | 6,406.1             | 1,769.7    | -804.9     | 1,944.2               | 1.19                  | -0.79                | -5.06               |
| 6,849.0                                  | 7.60            | 332.00      | 6,496.0             | 1,782.1    | -811.2     | 1,958.0               | 2.54                  | -2.53                | -1.87               |
| 6,937.0                                  | 5.60            | 329.80      | 6,583.5             | 1,790.9    | -816.1     | 1,968.1               | 2.29                  | -2.27                | -2.50               |
| 7,028.0                                  | 4.20            | 329.30      | 6,674.1             | 1,797.6    | -820.0     | 1,975.8               | 1.54                  | -1.54                | -0.55               |
| 7,118.0                                  | 3.20            | 328.20      | 6,763.9             | 1,802.6    | -823.0     | 1,981.6               | 1.11                  | -1.11                | -1.22               |
| 7,208.0                                  | 1.90            | 316.40      | 6,853.8             | 1,805.8    | -825.4     | 1,985.5               | 1.55                  | -1.44                | -13.11              |
| 7,299.0                                  | 1.30            | 311.90      | 6,944.8             | 1,807.6    | -827.2     | 1,987.9               | 0.67                  | -0.66                | -4.95               |
| 7,389.0                                  | 1.10            | 301.20      | 7,034.8             | 1,808.7    | -828.7     | 1,989.5               | 0.33                  | -0.22                | -11.89              |
| 7,466.2                                  | 1.10            | 305.70      | 7,112.0             | 1,809.5    | -829.9     | 1,990.8               | 0.11                  | 0.00                 | 5.83                |
| <b>TARGET CIRCLE 2590'FSL, 50'FWL</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,480.0                                  | 1.10            | 306.50      | 7,125.8             | 1,809.7    | -830.1     | 1,991.0               | 0.11                  | 0.00                 | 5.82                |
| 7,569.0                                  | 0.50            | 321.10      | 7,214.8             | 1,810.5    | -831.1     | 1,992.1               | 0.71                  | -0.67                | 16.40               |
| 7,657.0                                  | 0.30            | 322.60      | 7,302.8             | 1,811.0    | -831.5     | 1,992.7               | 0.23                  | -0.23                | 1.70                |
| 7,747.0                                  | 0.10            | 334.30      | 7,392.8             | 1,811.2    | -831.6     | 1,993.0               | 0.23                  | -0.22                | 13.00               |
| 7,837.0                                  | 0.10            | 3.20        | 7,482.8             | 1,811.4    | -831.7     | 1,993.2               | 0.06                  | 0.00                 | 32.11               |
| 7,927.0                                  | 0.20            | 29.50       | 7,572.8             | 1,811.6    | -831.6     | 1,993.3               | 0.13                  | 0.11                 | 29.22               |
| 8,018.0                                  | 0.13            | 29.90       | 7,663.8             | 1,811.8    | -831.5     | 1,993.5               | 0.08                  | -0.08                | 0.44                |
| 8,108.0                                  | 0.35            | 3.51        | 7,753.8             | 1,812.2    | -831.4     | 1,993.8               | 0.27                  | 0.24                 | -29.32              |
| 8,198.0                                  | 0.10            | 264.20      | 7,843.8             | 1,812.5    | -831.4     | 1,994.1               | 0.42                  | -0.28                | -110.34             |
| 8,289.0                                  | 0.10            | 347.50      | 7,934.8             | 1,812.5    | -831.5     | 1,994.2               | 0.15                  | 0.00                 | 91.54               |
| 8,366.0                                  | 0.10            | 315.40      | 8,011.8             | 1,812.6    | -831.6     | 1,994.3               | 0.07                  | 0.00                 | -41.69              |
| <b>HARD LINES 56°N &amp; 50°W of BHL</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 8,411.0                                  | 0.10            | 315.40      | 8,056.8             | 1,812.7    | -831.7     | 1,994.4               | 0.00                  | 0.00                 | 0.00                |

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