

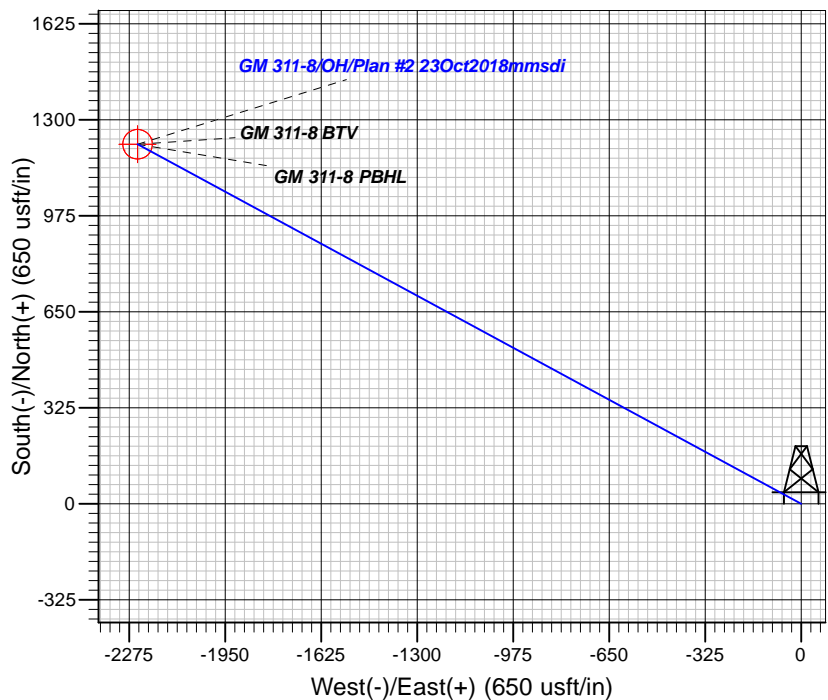
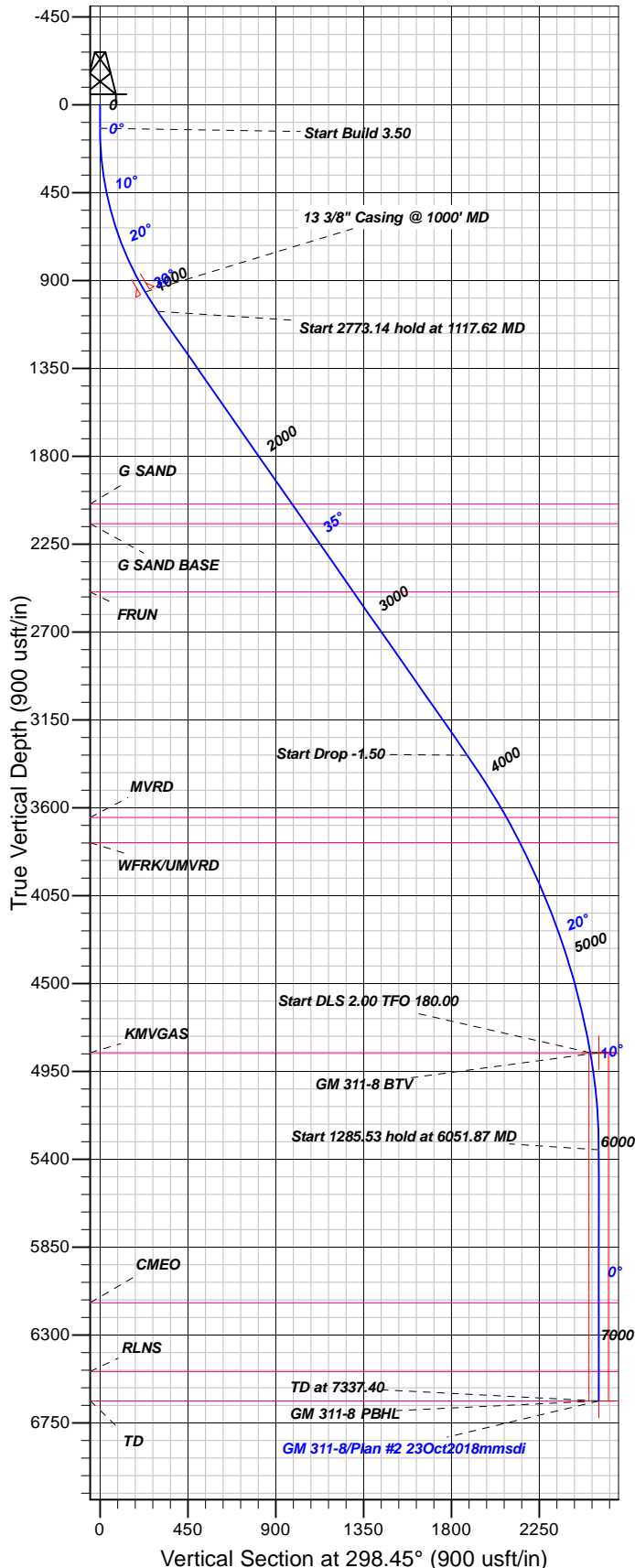


Azimuths to True North  
Magnetic North: 9.52°

Magnetic Field  
Strength: 51678.7snT  
Dip Angle: 65.68°  
Date: 6/18/2018  
Model: HDGM

## Well Details: GM 311-8

| +N/-S | +E/-W | Northing   | Easting    | Latitude   | Longitude    | Slot           |
|-------|-------|------------|------------|------------|--------------|----------------|
| 0.00  | 0.00  | 1601173.41 | 2257371.67 | 39.4544741 | -108.1303789 | GM 311-8 (B10) |



## FORMATION TOP DETAILS

| TVDPth  | MDPath  | Formation   |
|---------|---------|-------------|
| 2045.00 | 2322.51 | G SAND      |
| 2145.00 | 2444.46 | G SAND BASE |
| 2494.81 | 2871.07 | FRUN        |
| 3649.00 | 4266.37 | MVRD        |
| 3779.00 | 4413.85 | WFRK/UMVRD  |
| 4854.00 | 5551.87 | KMGAS       |
| 6135.00 | 6835.40 | CMEO        |
| 6487.00 | 7187.40 | RLNS        |
| 6637.00 | 7337.40 | TD          |

Plan: Plan #2 23Oct2018mmsdi

9:30, November 02 2018  
Created By: Mel Mireles

PROJECT DETAILS: Garfield County, CO NAD83

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone

System Datum: Mean Sea Level

## CASING DETAILS

| TVD    | MD      | Name                   | Size  |
|--------|---------|------------------------|-------|
| 958.23 | 1000.00 | 3/8" Casing @ 1000' MD | 13.37 |

## SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W    | Dleg | TFace  | Vsect   | Target        |
|-----|---------|-------|--------|---------|---------|----------|------|--------|---------|---------------|
| 1   | 0.00    | 0.00  | 0.00   | 0.00    | 0.00    | 0.00     | 0.00 | 0.00   | 0.00    |               |
| 2   | 120.00  | 0.00  | 0.00   | 120.00  | 0.00    | 0.00     | 0.00 | 0.00   | 0.00    |               |
| 3   | 1117.62 | 34.92 | 298.45 | 1057.00 | 140.39  | -259.10  | 3.50 | 298.45 | 294.69  |               |
| 4   | 3890.76 | 34.92 | 298.45 | 3330.94 | 896.57  | -1654.70 | 0.00 | 0.00   | 1881.99 |               |
| 5   | 5551.87 | 10.00 | 298.45 | 4854.00 | 1196.50 | -2208.24 | 1.50 | 180.00 | 2511.56 |               |
| 6   | 6051.87 | 0.00  | 0.00   | 5351.47 | 1217.23 | -2246.51 | 2.00 | 180.00 | 2555.08 |               |
| 7   | 7337.40 | 0.00  | 0.00   | 6637.00 | 1217.23 | -2246.51 | 0.00 | 0.00   | 2555.08 | GM 311-8 PBHL |

## DESIGN TARGET DETAILS

| Name  | TVD     | +N/-S   | +E/-W    | Northing   | Easting    | Latitude   | Longitude    | Shape                  |
|---|---------|---------|----------|------------|------------|------------|--------------|------------------------|
| GM 311-8 BTM  | 4854.00 | 1217.23 | -2246.51 | 1602455.17 | 2255161.34 | 39.4578157 | -108.1383353 | Circle (Radius: 50.00) |
| - plan misses target center by 42.88usft at 5559.06usft MD (4861.09 TVD, 1197.09 N, -2209.33 E) |         |         |          |            |            |            |              |                        |
| GM 311-8 PBHL   | 6637.00 | 1217.23 | -2246.51 | 1602455.17 | 2255161.34 | 39.4578157 | -108.1383353 | Point                  |
| - plan hits target center   |         |         |          |            |            |            |              |                        |



# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**MV 60-8D Pad**

**GM 311-8 - Slot GM 311-8 (B10)**

**OH**

**Plan: Plan #2 23Oct2018mmsdi**

## **Standard Planning Report**

**02 November, 2018**



[www.scientificdrilling.com](http://www.scientificdrilling.com)



|                  |                           |                                     |                                     |
|------------------|---------------------------|-------------------------------------|-------------------------------------|
| <b>Database:</b> | Grand Junction District   | <b>Local Co-ordinate Reference:</b> | Well GM 311-8 - Slot GM 311-8 (B10) |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Site:</b>     | MV 60-8D Pad              | <b>North Reference:</b>             | True                                |
| <b>Well:</b>     | GM 311-8                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Wellbore:</b> | OH                        |                                     |                                     |
| <b>Design:</b>   | Plan #2 23Oct2018mmsdi    |                                     |                                     |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Garfield County, CO NAD83 |                      |                |
| <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 Central Zone     |                      |                |

|                       |           |              |                   |                   |              |
|-----------------------|-----------|--------------|-------------------|-------------------|--------------|
| Site                  |           | MV 60-8D Pad |                   |                   |              |
| Site Position:        |           | Northing:    | 1,601,172.03 usft | Latitude:         | 39.4544712   |
| From:                 | Map       | Easting:     | 2,257,381.57 usft | Longitude:        | -108.1303437 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in          | Grid Convergence: | -1.66 °      |

|                      |                                |            |                     |                   |               |               |
|----------------------|--------------------------------|------------|---------------------|-------------------|---------------|---------------|
| Well                 | GM 311-8 - Slot GM 311-8 (B10) |            |                     |                   |               |               |
| Well Position        | +N/-S                          | 1.09 usft  | Northing:           | 1,601,173.41 usft | Latitude:     | 39.4544742    |
|                      | +E/-W                          | -9.94 usft | Easting:            | 2,257,371.67 usft | Longitude:    | -108.1303789  |
| Position Uncertainty |                                | 0.00 usft  | Wellhead Elevation: | 0.00 usft         | Ground Level: | 6,175.00 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | HDGM              | 6/18/2018          | 9.52                   | 65.68                | 51,679                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #2 23Oct2018mmsdi         |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 298.45               |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |               |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target        |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 120.00                | 0.00            | 0.00        | 120.00                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 1,117.62              | 34.92           | 298.45      | 1,057.00              | 140.39       | -259.10      | 3.50                    | 3.50                   | 0.00                  | 298.45  |               |
| 3,890.76              | 34.92           | 298.45      | 3,330.94              | 896.57       | -1,654.70    | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 5,551.87              | 10.00           | 298.45      | 4,854.00              | 1,196.50     | -2,208.24    | 1.50                    | -1.50                  | 0.00                  | 180.00  |               |
| 6,051.87              | 0.00            | 0.00        | 5,351.47              | 1,217.23     | -2,246.51    | 2.00                    | -2.00                  | 12.31                 | 180.00  |               |
| 7,337.40              | 0.00            | 0.00        | 6,637.00              | 1,217.23     | -2,246.51    | 0.00                    | 0.00                   | 0.00                  | 0.00    | GM 311-8 PBHL |

|                  |                           |                                     |                                     |
|------------------|---------------------------|-------------------------------------|-------------------------------------|
| <b>Database:</b> | Grand Junction District   | <b>Local Co-ordinate Reference:</b> | Well GM 311-8 - Slot GM 311-8 (B10) |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Site:</b>     | MV 60-8D Pad              | <b>North Reference:</b>             | True                                |
| <b>Well:</b>     | GM 311-8                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Wellbore:</b> | OH                        |                                     |                                     |
| <b>Design:</b>   | Plan #2 23Oct2018mmsdi    |                                     |                                     |

| Planned Survey                          |                 |             |                       |              |              |                         |                         |                        |                       |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                   | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00                                    | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                                  | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 120.00                                  | 0.00            | 0.00        | 120.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build 3.50</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 200.00                                  | 2.80            | 298.45      | 199.97                | 0.93         | -1.72        | 1.95                    | 3.50                    | 3.50                   | 0.00                  |
| 300.00                                  | 6.30            | 298.45      | 299.64                | 4.71         | -8.69        | 9.89                    | 3.50                    | 3.50                   | 0.00                  |
| 400.00                                  | 9.80            | 298.45      | 398.64                | 11.38        | -21.00       | 23.89                   | 3.50                    | 3.50                   | 0.00                  |
| 500.00                                  | 13.30           | 298.45      | 496.60                | 20.92        | -38.60       | 43.91                   | 3.50                    | 3.50                   | 0.00                  |
| 600.00                                  | 16.80           | 298.45      | 593.15                | 33.29        | -61.43       | 69.87                   | 3.50                    | 3.50                   | 0.00                  |
| 700.00                                  | 20.30           | 298.45      | 687.94                | 48.44        | -89.40       | 101.68                  | 3.50                    | 3.50                   | 0.00                  |
| 800.00                                  | 23.80           | 298.45      | 780.61                | 66.32        | -122.40      | 139.21                  | 3.50                    | 3.50                   | 0.00                  |
| 900.00                                  | 27.30           | 298.45      | 870.82                | 86.86        | -160.32      | 182.34                  | 3.50                    | 3.50                   | 0.00                  |
| 1,000.00                                | 30.80           | 298.45      | 958.23                | 109.99       | -203.00      | 230.89                  | 3.50                    | 3.50                   | 0.00                  |
| <b>13 3/8" Casing @ 1000' MD</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,100.00                                | 34.30           | 298.45      | 1,042.50              | 135.62       | -250.30      | 284.68                  | 3.50                    | 3.50                   | 0.00                  |
| 1,117.62                                | 34.92           | 298.45      | 1,057.00              | 140.39       | -259.10      | 294.69                  | 3.50                    | 3.50                   | 0.00                  |
| <b>Start 2773.14 hold at 1117.62 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,200.00                                | 34.92           | 298.45      | 1,124.56              | 162.85       | -300.56      | 341.84                  | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00                                | 34.92           | 298.45      | 1,206.56              | 190.12       | -350.88      | 399.08                  | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00                                | 34.92           | 298.45      | 1,288.55              | 217.39       | -401.21      | 456.32                  | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                                | 34.92           | 298.45      | 1,370.55              | 244.66       | -451.53      | 513.56                  | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00                                | 34.92           | 298.45      | 1,452.55              | 271.92       | -501.86      | 570.79                  | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00                                | 34.92           | 298.45      | 1,534.55              | 299.19       | -552.19      | 628.03                  | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                                | 34.92           | 298.45      | 1,616.55              | 326.46       | -602.51      | 685.27                  | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00                                | 34.92           | 298.45      | 1,698.55              | 353.73       | -652.84      | 742.51                  | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                                | 34.92           | 298.45      | 1,780.55              | 381.00       | -703.16      | 799.75                  | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                                | 34.92           | 298.45      | 1,862.54              | 408.27       | -753.49      | 856.99                  | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                                | 34.92           | 298.45      | 1,944.54              | 435.53       | -803.81      | 914.22                  | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                                | 34.92           | 298.45      | 2,026.54              | 462.80       | -854.14      | 971.46                  | 0.00                    | 0.00                   | 0.00                  |
| 2,322.51                                | 34.92           | 298.45      | 2,045.00              | 468.94       | -865.47      | 984.35                  | 0.00                    | 0.00                   | 0.00                  |
| <b>G SAND</b>                           |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,400.00                                | 34.92           | 298.45      | 2,108.54              | 490.07       | -904.47      | 1,028.70                | 0.00                    | 0.00                   | 0.00                  |
| 2,444.46                                | 34.92           | 298.45      | 2,145.00              | 502.19       | -926.84      | 1,054.15                | 0.00                    | 0.00                   | 0.00                  |
| <b>G SAND BASE</b>                      |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,500.00                                | 34.92           | 298.45      | 2,190.54              | 517.34       | -954.79      | 1,085.94                | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                                | 34.92           | 298.45      | 2,272.54              | 544.61       | -1,005.12    | 1,143.18                | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                                | 34.92           | 298.45      | 2,354.54              | 571.87       | -1,055.44    | 1,200.42                | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                                | 34.92           | 298.45      | 2,436.54              | 599.14       | -1,105.77    | 1,257.65                | 0.00                    | 0.00                   | 0.00                  |
| 2,871.07                                | 34.92           | 298.45      | 2,494.81              | 618.52       | -1,141.53    | 1,298.33                | 0.00                    | 0.00                   | 0.00                  |
| <b>FRUN</b>                             |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,900.00                                | 34.92           | 298.45      | 2,518.53              | 626.41       | -1,156.09    | 1,314.89                | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                                | 34.92           | 298.45      | 2,600.53              | 653.68       | -1,206.42    | 1,372.13                | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                                | 34.92           | 298.45      | 2,682.53              | 680.95       | -1,256.75    | 1,429.37                | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                                | 34.92           | 298.45      | 2,764.53              | 708.22       | -1,307.07    | 1,486.61                | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                                | 34.92           | 298.45      | 2,846.53              | 735.48       | -1,357.40    | 1,543.85                | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                                | 34.92           | 298.45      | 2,928.53              | 762.75       | -1,407.72    | 1,601.08                | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                                | 34.92           | 298.45      | 3,010.53              | 790.02       | -1,458.05    | 1,658.32                | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                                | 34.92           | 298.45      | 3,092.52              | 817.29       | -1,508.37    | 1,715.56                | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                                | 34.92           | 298.45      | 3,174.52              | 844.56       | -1,558.70    | 1,772.80                | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                                | 34.92           | 298.45      | 3,256.52              | 871.82       | -1,609.03    | 1,830.04                | 0.00                    | 0.00                   | 0.00                  |
| 3,890.76                                | 34.92           | 298.45      | 3,330.94              | 896.57       | -1,654.70    | 1,881.99                | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Drop -1.50</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,900.00                                | 34.78           | 298.45      | 3,338.53              | 899.09       | -1,659.34    | 1,887.27                | 1.50                    | -1.50                  | 0.00                  |

|                  |                           |                                     |                                     |
|------------------|---------------------------|-------------------------------------|-------------------------------------|
| <b>Database:</b> | Grand Junction District   | <b>Local Co-ordinate Reference:</b> | Well GM 311-8 - Slot GM 311-8 (B10) |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Site:</b>     | MV 60-8D Pad              | <b>North Reference:</b>             | True                                |
| <b>Well:</b>     | GM 311-8                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Wellbore:</b> | OH                        |                                     |                                     |
| <b>Design:</b>   | Plan #2 23Oct2018mmsdi    |                                     |                                     |

| Planned Survey                            |                 |             |                       |              |              |                         |                         |                        |                       |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                     | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,000.00                                  | 33.28           | 298.45      | 3,421.40              | 925.75       | -1,708.54    | 1,943.23                | 1.50                    | -1.50                  | 0.00                  |
| 4,100.00                                  | 31.78           | 298.45      | 3,505.71              | 951.36       | -1,755.82    | 1,997.00                | 1.50                    | -1.50                  | 0.00                  |
| 4,200.00                                  | 30.28           | 298.45      | 3,591.40              | 975.92       | -1,801.14    | 2,048.54                | 1.50                    | -1.50                  | 0.00                  |
| 4,266.37                                  | 29.28           | 298.45      | 3,649.00              | 991.62       | -1,830.12    | 2,081.50                | 1.50                    | -1.50                  | 0.00                  |
| <b>MVRD</b>                               |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,300.00                                  | 28.78           | 298.45      | 3,678.41              | 999.40       | -1,844.47    | 2,097.82                | 1.50                    | -1.50                  | 0.00                  |
| 4,400.00                                  | 27.28           | 298.45      | 3,766.68              | 1,021.78     | -1,885.78    | 2,144.81                | 1.50                    | -1.50                  | 0.00                  |
| 4,413.85                                  | 27.07           | 298.45      | 3,779.00              | 1,024.79     | -1,891.35    | 2,151.14                | 1.50                    | -1.50                  | 0.00                  |
| <b>WFRK/UMVRD</b>                         |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,500.00                                  | 25.78           | 298.45      | 3,856.15              | 1,043.06     | -1,925.05    | 2,189.47                | 1.50                    | -1.50                  | 0.00                  |
| 4,600.00                                  | 24.28           | 298.45      | 3,946.75              | 1,063.21     | -1,962.25    | 2,231.78                | 1.50                    | -1.50                  | 0.00                  |
| 4,700.00                                  | 22.78           | 298.45      | 4,038.44              | 1,082.23     | -1,997.35    | 2,271.70                | 1.50                    | -1.50                  | 0.00                  |
| 4,800.00                                  | 21.28           | 298.45      | 4,131.14              | 1,100.10     | -2,030.32    | 2,309.20                | 1.50                    | -1.50                  | 0.00                  |
| 4,900.00                                  | 19.78           | 298.45      | 4,224.78              | 1,116.80     | -2,061.15    | 2,344.27                | 1.50                    | -1.50                  | 0.00                  |
| 5,000.00                                  | 18.28           | 298.45      | 4,319.32              | 1,132.33     | -2,089.82    | 2,376.87                | 1.50                    | -1.50                  | 0.00                  |
| 5,100.00                                  | 16.78           | 298.45      | 4,414.67              | 1,146.68     | -2,116.30    | 2,406.99                | 1.50                    | -1.50                  | 0.00                  |
| 5,200.00                                  | 15.28           | 298.45      | 4,510.78              | 1,159.83     | -2,140.57    | 2,434.60                | 1.50                    | -1.50                  | 0.00                  |
| 5,300.00                                  | 13.78           | 298.45      | 4,607.58              | 1,171.78     | -2,162.63    | 2,459.68                | 1.50                    | -1.50                  | 0.00                  |
| 5,400.00                                  | 12.28           | 298.45      | 4,705.00              | 1,182.52     | -2,182.45    | 2,482.22                | 1.50                    | -1.50                  | 0.00                  |
| 5,500.00                                  | 10.78           | 298.45      | 4,802.98              | 1,192.04     | -2,200.02    | 2,502.21                | 1.50                    | -1.50                  | 0.00                  |
| 5,551.87                                  | 10.00           | 298.45      | 4,854.00              | 1,196.50     | -2,208.24    | 2,511.56                | 1.50                    | -1.50                  | 0.00                  |
| <b>Start DLS 2.00 TFO 180.00 - KMGAS</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,559.06                                  | 9.86            | 298.45      | 4,861.09              | 1,197.09     | -2,209.33    | 2,512.80                | 2.00                    | -2.00                  | 0.00                  |
| <b>GM 311-8 BTV</b>                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,600.00                                  | 9.04            | 298.45      | 4,901.47              | 1,200.29     | -2,215.24    | 2,519.52                | 2.00                    | -2.00                  | 0.00                  |
| 5,700.00                                  | 7.04            | 298.45      | 5,000.48              | 1,206.95     | -2,227.53    | 2,533.50                | 2.00                    | -2.00                  | 0.00                  |
| 5,800.00                                  | 5.04            | 298.45      | 5,099.92              | 1,211.96     | -2,236.78    | 2,544.02                | 2.00                    | -2.00                  | 0.00                  |
| 5,900.00                                  | 3.04            | 298.45      | 5,199.67              | 1,215.32     | -2,242.97    | 2,551.06                | 2.00                    | -2.00                  | 0.00                  |
| 6,000.00                                  | 1.04            | 298.45      | 5,299.60              | 1,217.01     | -2,246.09    | 2,554.61                | 2.00                    | -2.00                  | 0.00                  |
| 6,051.87                                  | 0.00            | 0.00        | 5,351.47              | 1,217.23     | -2,246.51    | 2,555.08                | 2.00                    | -2.00                  | 118.67                |
| <b>Start 1285.53 hold at 6051.87 MD</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,100.00                                  | 0.00            | 0.00        | 5,399.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                                  | 0.00            | 0.00        | 5,499.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                                  | 0.00            | 0.00        | 5,599.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                                  | 0.00            | 0.00        | 5,699.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                                  | 0.00            | 0.00        | 5,799.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                                  | 0.00            | 0.00        | 5,899.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                                  | 0.00            | 0.00        | 5,999.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                                  | 0.00            | 0.00        | 6,099.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 6,835.40                                  | 0.00            | 0.00        | 6,135.00              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| <b>CME0</b>                               |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,900.00                                  | 0.00            | 0.00        | 6,199.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                                  | 0.00            | 0.00        | 6,299.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                                  | 0.00            | 0.00        | 6,399.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 7,187.40                                  | 0.00            | 0.00        | 6,487.00              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| <b>RLNS</b>                               |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,200.00                                  | 0.00            | 0.00        | 6,499.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                                  | 0.00            | 0.00        | 6,599.60              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| 7,337.40                                  | 0.00            | 0.00        | 6,637.00              | 1,217.23     | -2,246.51    | 2,555.08                | 0.00                    | 0.00                   | 0.00                  |
| <b>TD at 7337.40 - TD - GM 311-8 PBHL</b> |                 |             |                       |              |              |                         |                         |                        |                       |

|                  |                           |                                     |                                     |
|------------------|---------------------------|-------------------------------------|-------------------------------------|
| <b>Database:</b> | Grand Junction District   | <b>Local Co-ordinate Reference:</b> | Well GM 311-8 - Slot GM 311-8 (B10) |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 6175' & RKB 24' @ 6199.00usft    |
| <b>Site:</b>     | MV 60-8D Pad              | <b>North Reference:</b>             | True                                |
| <b>Well:</b>     | GM 311-8                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Wellbore:</b> | OH                        |                                     |                                     |
| <b>Design:</b>   | Plan #2 23Oct2018mmsdi    |                                     |                                     |

| Design Targets  |           |          |          |          |           |              |              |            |              |
|---|-----------|----------|----------|----------|-----------|--------------|--------------|------------|--------------|
| Target Name   |           |          |          |          |           |              |              |            |              |
| - hit/miss target   | Dip Angle | Dip Dir. | TVD      | +N/-S    | +E/-W     | Northing     | Easting      | Latitude   | Longitude    |
| - Shape   | (°)       | (°)      | (usft)   | (usft)   | (usft)    | (usft)       | (usft)       |            |              |
| GM 311-8 BTV  | 0.00      | 0.00     | 4,854.00 | 1,217.23 | -2,246.51 | 1,602,455.17 | 2,255,161.34 | 39.4578158 | -108.1383353 |
| - plan misses target center by 42.88usft at 5559.06usft MD (4861.09 TVD, 1197.09 N, -2209.33 E) |           |          |          |          |           |              |              |            |              |
| - Circle (radius 50.00)   |           |          |          |          |           |              |              |            |              |
| GM 311-8 PBHL   | 0.00      | 0.00     | 6,637.00 | 1,217.23 | -2,246.51 | 1,602,455.17 | 2,255,161.34 | 39.4578158 | -108.1383353 |
| - plan hits target center   |           |          |          |          |           |              |              |            |              |
| - Point   |           |          |          |          |           |              |              |            |              |

| Casing Points         |                       |                           |                      |                    |  |
|-----------------------|-----------------------|---------------------------|----------------------|--------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name                      | Casing Diameter (in) | Hole Diameter (in) |  |
| 1,000.00              | 958.23                | 13 3/8" Casing @ 1000' MD | 13.37                | 17.50              |  |

| Formations            |                       |             |           |         |                   |
|-----------------------|-----------------------|-------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name        | Lithology | Dip (°) | Dip Direction (°) |
| 2,322.51              | 2,045.00              | G SAND      |           | 0.00    | 0.00              |
| 2,444.46              | 2,145.00              | G SAND BASE |           | 0.00    | 0.00              |
| 2,871.07              | 2,494.81              | FRUN        |           | 0.00    | 0.00              |
| 4,266.37              | 3,649.00              | MVRD        |           | 0.00    | 0.00              |
| 4,413.85              | 3,779.00              | WFRK/UMVRD  |           | 0.00    | 0.00              |
| 5,551.87              | 4,854.00              | KMVGAS      |           | 0.00    | 0.00              |
| 6,835.40              | 6,135.00              | CME0        |           | 0.00    | 0.00              |
| 7,187.40              | 6,487.00              | RLNS        |           | 0.00    | 0.00              |
| 7,337.40              | 6,637.00              | TD          |           | 0.00    | 0.00              |

| Plan Annotations      |                       |                   |              |                                  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                          |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                  |
| 120.00                | 120.00                | 0.00              | 0.00         | Start Build 3.50                 |
| 1,117.62              | 1,057.00              | 140.39            | -259.10      | Start 2773.14 hold at 1117.62 MD |
| 3,890.76              | 3,330.94              | 896.57            | -1,654.70    | Start Drop -1.50                 |
| 5,551.87              | 4,854.00              | 1,196.50          | -2,208.24    | Start DLS 2.00 TFO 180.00        |
| 6,051.87              | 5,351.47              | 1,217.23          | -2,246.51    | Start 1285.53 hold at 6051.87 MD |
| 7,337.40              | 6,637.00              | 1,217.23          | -2,246.51    | TD at 7337.40                    |