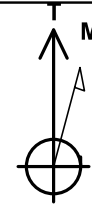




Company: TEP Rocky Mountain LLC  
Project: Garfield County, CO NAD83  
Site: GM 12-20 Pad  
Well: GM 431-19

Plan: Plan 2 13Jan2020 sbsdi



Azimuths to True North  
Magnetic North: 9.42°

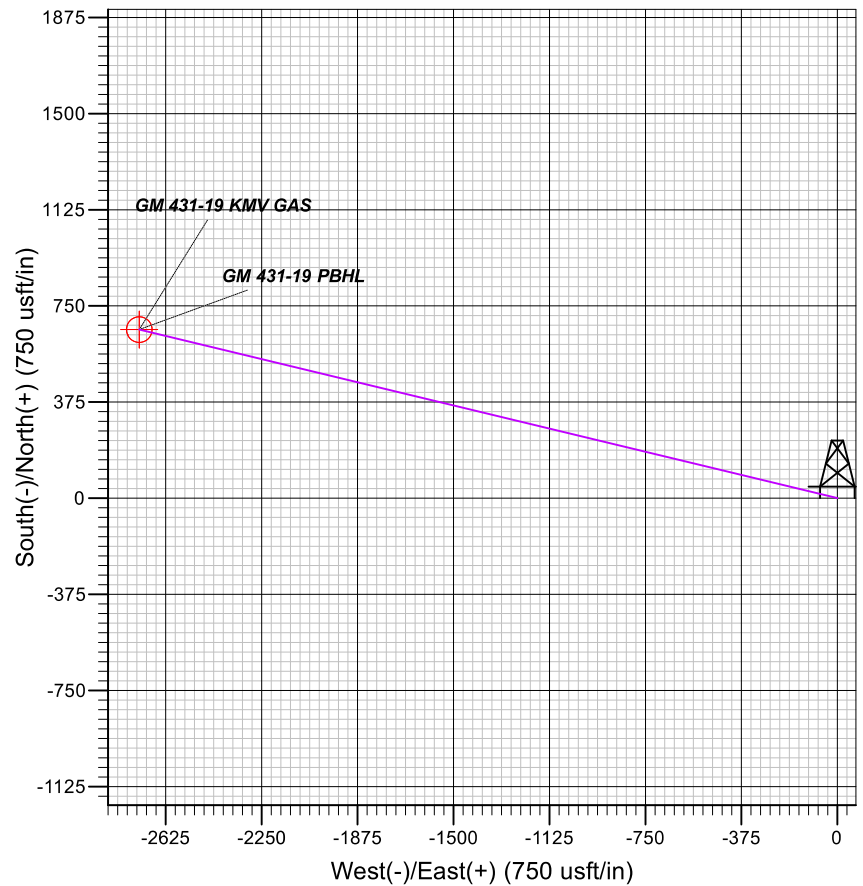
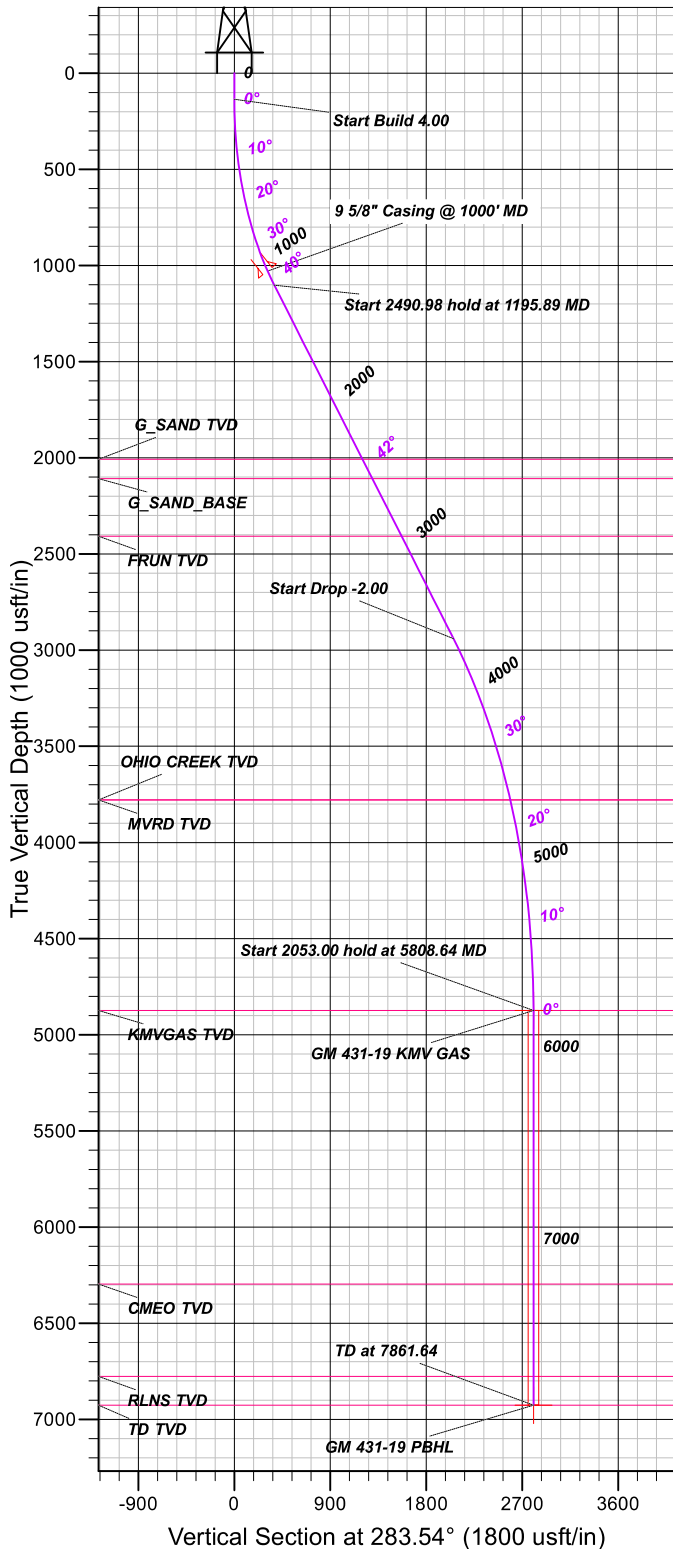
Magnetic Field  
Strength: 51454.4nT  
Dip Angle: 65.77°  
Date: 1/13/2020  
Model: HDGM\_FILE

### Well Details: GM 431-19

| +N/-S | +E/-W | Northing     | Easting      | Latitude   | Longitude    | Slot      |
|-------|-------|--------------|--------------|------------|--------------|-----------|
| 0.00  | 0.00  | 1622126.8300 | 2255383.7100 | 39.5118183 | -108.1395721 | GM 431-19 |

### DESIGN TARGET DETAILS

| Name              | TVD     | +N/-S  | +E/-W    | Northing     | Easting      | Latitude   | Longitude    | Circle (Radius: 50.00) | Shape                  |
|-------------------|---------|--------|----------|--------------|--------------|------------|--------------|------------------------|------------------------|
| GM 431-19 KMV GAS | 4873.00 | 657.28 | -2728.46 | 1622863.1000 | 2252675.5000 | 39.5136224 | -108.1492430 |                        | Circle (Radius: 50.00) |
| GM 431-19 PBHL    | 6926.00 | 657.28 | -2728.46 | 1622863.1000 | 2252675.5000 | 39.5136224 | -108.1492430 |                        | Point                  |



| FORMATION TOP DETAILS |         |                | PROJECT DETAILS: Garfield County, CO NAD83   |  |
|-----------------------|---------|----------------|--|--|
| TVDPath               | MDPath  | Formation      | Geodetic System: US State Plane 1983<br>Datum: North American Datum 1983<br>Ellipsoid: GRS 1980<br>Zone: Colorado Central Zone<br><br>System Datum: Mean Sea Level |  |
| 2008.00               | 2424.11 | G_SAND TVD     |  |  |
| 2108.00               | 2559.61 | G_SAND BASE    |  |  |
| 2408.00               | 2966.09 | FRUN TVD       |  |  |
| 3778.00               | 4685.05 | MVRD TVD       |  |  |
| 3778.00               | 4685.05 | OHIO CREEK TVD |  |  |
| 4873.00               | 5808.64 | KMGVAS TVD     |  |  |
| 6296.00               | 7231.64 | CMEO TVD       |  |  |
| 6776.00               | 7711.64 | RLNS TVD       |  |  |
| 6926.00               | 7861.64 | TD TVD         |  |  |

| CASING DETAILS |         |                          |      |  |
|----------------|---------|--------------------------|------|--|
| TVD            | MD      | Name                     | Size |  |
| 1028.64        | 1100.00 | 9 5/8" Casing @ 1000' MD | 9.62 |  |

| SECTION DETAILS |       |        |         |        |          |      |        |         |  |
|-----------------|-------|--------|---------|--------|----------|------|--------|---------|--|
| MD              | Inc   | Azi    | TVD     | +N/-S  | +E/-W    | Dleg | TFace  | VSect   |  |
| 0.00            | 0.00  | 0.00   | 0.00    | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    |  |
| 135.00          | 0.00  | 0.00   | 135.00  | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    |  |
| 1195.89         | 42.44 | 283.54 | 1101.52 | 87.88  | -364.80  | 4.00 | 283.54 | 375.23  |  |
| 3686.86         | 42.44 | 283.54 | 2939.96 | 481.52 | -1998.86 | 0.00 | 0.00   | 2056.04 |  |
| 5808.64         | 0.00  | 0.00   | 4873.00 | 657.28 | -2728.46 | 2.00 | 180.00 | 2806.51 |  |
| 7861.64         | 0.00  | 0.00   | 6926.00 | 657.28 | -2728.46 | 0.00 | 0.00   | 2806.51 |  |

# **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**GM 12-20 Pad**

**GM 431-19 - Slot GM 431-19**

**OH**

**Plan: Plan 2 13Jan2020 sbsdi**

## **Standard Planning Report**

**13 January, 2020**



# Scientific Drilling, Intl

## Planning Report

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | Grand Junction            | <b>Local Co-ordinate Reference:</b> | Well GM 431-19 - Slot GM 431-19             |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Site:</b>     | GM 12-20 Pad              | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | GM 431-19                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | OH                        |                                     |   |
| <b>Design:</b>   | Plan 2 13Jan2020 sbsdi    |                                     |   |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <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     |                      |                |

|                              |                                      |                          |                     |
|------------------------------|--------------------------------------|--------------------------|---------------------|
| <b>Site</b>                  | GM 12-20 Pad, Site Center : GM 31-19 |                          |                     |
| <b>Site Position:</b>        |                                      | <b>Northing:</b>         | 1,622,131.3600 usft |
| <b>From:</b>                 | Map                                  | <b>Easting:</b>          | 2,255,369.4200 usft |
| <b>Position Uncertainty:</b> | 0.00 usft                            | <b>Slot Radius:</b>      | 13.20 in            |
|                              |                                      | <b>Latitude:</b>         | 39.5118297          |
|                              |                                      | <b>Longitude:</b>        | -108.1396232        |
|                              |                                      | <b>Grid Convergence:</b> | -1.66 °             |

|                             |                            |                            |                                      |
|-----------------------------|----------------------------|----------------------------|--------------------------------------|
| <b>Well</b>                 | GM 431-19 - Slot GM 431-19 |                            |                                      |
| <b>Well Position</b>        | <b>+N/-S</b>               | -4.11 usft                 | <b>Northing:</b> 1,622,126.8300 usft |
|                             | <b>+E/-W</b>               | 14.42 usft                 | <b>Easting:</b> 2,255,383.7100 usft  |
| <b>Position Uncertainty</b> | 0.00 usft                  | <b>Wellhead Elevation:</b> | <b>Latitude:</b> 39.5118184          |
|                             |                            |                            | <b>Longitude:</b> -108.1395721       |
|                             |                            |                            | <b>Ground Level:</b> 5,752.10 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_FILE         | 1/13/2020          | 9.42                   | 65.77                | 51,454.40000000            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan 2 13Jan2020 sbsdi         |                     |                      |                      |
| <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                 | 283.54               |

| <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    |                   |
| 135.00                | 0.00            | 0.00        | 135.00                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 1,195.89              | 42.44           | 283.54      | 1,101.52              | 87.88        | -364.80      | 4.00                    | 4.00                   | 0.00                  | 283.54  |                   |
| 3,686.86              | 42.44           | 283.54      | 2,939.96              | 481.52       | -1,998.86    | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 5,808.64              | 0.00            | 0.00        | 4,873.00              | 657.28       | -2,728.46    | 2.00                    | -2.00                  | 0.00                  | 180.00  | GM 431-19 KMV GAS |
| 7,861.64              | 0.00            | 0.00        | 6,926.00              | 657.28       | -2,728.46    | 0.00                    | 0.00                   | 0.00                  | 0.00    | GM 431-19 PBHL    |

# Scientific Drilling, Intl

## Planning Report

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | Grand Junction            | <b>Local Co-ordinate Reference:</b> | Well GM 431-19 - Slot GM 431-19             |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Site:</b>     | GM 12-20 Pad              | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | GM 431-19                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | OH                        |                                     |   |
| <b>Design:</b>   | Plan 2 13Jan2020 sbsdi    |                                     |   |

| 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                  |  |
| 135.00                           | 0.00            | 0.00        | 135.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| Start Build 4.00                 |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 200.00                           | 2.60            | 283.54      | 199.98                | 0.35         | -1.43        | 1.47                    | 4.00                    | 4.00                   | 0.00                  |  |
| 300.00                           | 6.60            | 283.54      | 299.63                | 2.22         | -9.23        | 9.49                    | 4.00                    | 4.00                   | 0.00                  |  |
| 400.00                           | 10.60           | 283.54      | 398.49                | 5.72         | -23.76       | 24.44                   | 4.00                    | 4.00                   | 0.00                  |  |
| 500.00                           | 14.60           | 283.54      | 496.06                | 10.83        | -44.97       | 46.25                   | 4.00                    | 4.00                   | 0.00                  |  |
| 600.00                           | 18.60           | 283.54      | 591.87                | 17.52        | -72.74       | 74.82                   | 4.00                    | 4.00                   | 0.00                  |  |
| 700.00                           | 22.60           | 283.54      | 685.46                | 25.76        | -106.93      | 109.99                  | 4.00                    | 4.00                   | 0.00                  |  |
| 800.00                           | 26.60           | 283.54      | 776.37                | 35.51        | -147.40      | 151.61                  | 4.00                    | 4.00                   | 0.00                  |  |
| 900.00                           | 30.60           | 283.54      | 864.15                | 46.72        | -193.92      | 199.47                  | 4.00                    | 4.00                   | 0.00                  |  |
| 1,000.00                         | 34.60           | 283.54      | 948.37                | 59.33        | -246.29      | 253.34                  | 4.00                    | 4.00                   | 0.00                  |  |
| 1,100.00                         | 38.60           | 283.54      | 1,028.64              | 73.29        | -304.25      | 312.95                  | 4.00                    | 4.00                   | 0.00                  |  |
| 9 5/8" Casing @ 1000' MD         |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 1,195.89                         | 42.44           | 283.54      | 1,101.52              | 87.88        | -364.80      | 375.23                  | 4.00                    | 4.00                   | 0.00                  |  |
| Start 2490.98 hold at 1195.89 MD |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 1,200.00                         | 42.44           | 283.54      | 1,104.56              | 88.53        | -367.49      | 378.01                  | 0.00                    | 0.00                   | 0.00                  |  |
| 1,300.00                         | 42.44           | 283.54      | 1,178.36              | 104.33       | -433.09      | 445.48                  | 0.00                    | 0.00                   | 0.00                  |  |
| 1,400.00                         | 42.44           | 283.54      | 1,252.16              | 120.13       | -498.69      | 512.96                  | 0.00                    | 0.00                   | 0.00                  |  |
| 1,500.00                         | 42.44           | 283.54      | 1,325.97              | 135.94       | -564.29      | 580.43                  | 0.00                    | 0.00                   | 0.00                  |  |
| 1,600.00                         | 42.44           | 283.54      | 1,399.77              | 151.74       | -629.89      | 647.91                  | 0.00                    | 0.00                   | 0.00                  |  |
| 1,700.00                         | 42.44           | 283.54      | 1,473.57              | 167.54       | -695.49      | 715.39                  | 0.00                    | 0.00                   | 0.00                  |  |
| 1,800.00                         | 42.44           | 283.54      | 1,547.38              | 183.35       | -761.09      | 782.86                  | 0.00                    | 0.00                   | 0.00                  |  |
| 1,900.00                         | 42.44           | 283.54      | 1,621.18              | 199.15       | -826.69      | 850.34                  | 0.00                    | 0.00                   | 0.00                  |  |
| 2,000.00                         | 42.44           | 283.54      | 1,694.98              | 214.95       | -892.29      | 917.81                  | 0.00                    | 0.00                   | 0.00                  |  |
| 2,100.00                         | 42.44           | 283.54      | 1,768.79              | 230.75       | -957.89      | 985.29                  | 0.00                    | 0.00                   | 0.00                  |  |
| 2,200.00                         | 42.44           | 283.54      | 1,842.59              | 246.56       | -1,023.49    | 1,052.77                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,300.00                         | 42.44           | 283.54      | 1,916.40              | 262.36       | -1,089.09    | 1,120.24                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,400.00                         | 42.44           | 283.54      | 1,990.20              | 278.16       | -1,154.68    | 1,187.72                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,424.11                         | 42.44           | 283.54      | 2,008.00              | 281.97       | -1,170.51    | 1,203.99                | 0.00                    | 0.00                   | 0.00                  |  |
| G_SAND TVD                       |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 2,500.00                         | 42.44           | 283.54      | 2,064.00              | 293.97       | -1,220.28    | 1,255.19                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,559.61                         | 42.44           | 283.54      | 2,108.00              | 303.39       | -1,259.39    | 1,295.42                | 0.00                    | 0.00                   | 0.00                  |  |
| G_SAND_BASE                      |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 2,599.99                         | 42.44           | 283.54      | 2,137.81              | 309.77       | -1,285.88    | 1,322.67                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,699.99                         | 42.44           | 283.54      | 2,211.61              | 325.57       | -1,351.48    | 1,390.14                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,799.99                         | 42.44           | 283.54      | 2,285.41              | 341.37       | -1,417.08    | 1,457.62                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,899.99                         | 42.44           | 283.54      | 2,359.22              | 357.18       | -1,482.68    | 1,525.10                | 0.00                    | 0.00                   | 0.00                  |  |
| 2,966.09                         | 42.44           | 283.54      | 2,408.00              | 367.62       | -1,526.04    | 1,569.70                | 0.00                    | 0.00                   | 0.00                  |  |
| FRUN TVD                         |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 2,999.99                         | 42.44           | 283.54      | 2,433.02              | 372.98       | -1,548.28    | 1,592.57                | 0.00                    | 0.00                   | 0.00                  |  |
| 3,099.99                         | 42.44           | 283.54      | 2,506.82              | 388.78       | -1,613.88    | 1,660.05                | 0.00                    | 0.00                   | 0.00                  |  |
| 3,199.99                         | 42.44           | 283.54      | 2,580.63              | 404.58       | -1,679.48    | 1,727.52                | 0.00                    | 0.00                   | 0.00                  |  |
| 3,299.99                         | 42.44           | 283.54      | 2,654.43              | 420.39       | -1,745.08    | 1,795.00                | 0.00                    | 0.00                   | 0.00                  |  |
| 3,399.99                         | 42.44           | 283.54      | 2,728.24              | 436.19       | -1,810.68    | 1,862.47                | 0.00                    | 0.00                   | 0.00                  |  |
| 3,499.99                         | 42.44           | 283.54      | 2,802.04              | 451.99       | -1,876.28    | 1,929.95                | 0.00                    | 0.00                   | 0.00                  |  |
| 3,599.99                         | 42.44           | 283.54      | 2,875.84              | 467.80       | -1,941.88    | 1,997.43                | 0.00                    | 0.00                   | 0.00                  |  |
| 3,686.86                         | 42.44           | 283.54      | 2,939.96              | 481.52       | -1,998.86    | 2,056.04                | 0.00                    | 0.00                   | 0.00                  |  |
| Start Drop -2.00                 |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 3,699.99                         | 42.17           | 283.54      | 2,949.67              | 483.59       | -2,007.45    | 2,064.88                | 2.00                    | -2.00                  | 0.00                  |  |
| 3,799.99                         | 40.17           | 283.54      | 3,024.94              | 499.01       | -2,071.45    | 2,130.71                | 2.00                    | -2.00                  | 0.00                  |  |

# Scientific Drilling, Intl

## Planning Report

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | Grand Junction            | <b>Local Co-ordinate Reference:</b> | Well GM 431-19 - Slot GM 431-19             |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Site:</b>     | GM 12-20 Pad              | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | GM 431-19                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | OH                        |                                     |   |
| <b>Design:</b>   | Plan 2 13Jan2020 sbsdi    |                                     |   |

| 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) |
| 3,899.99  | 38.17           | 283.54      | 3,102.46              | 513.80       | -2,132.86    | 2,193.87                | 2.00                    | -2.00                  | 0.00                  |
| 3,999.99  | 36.17           | 283.54      | 3,182.13              | 527.95       | -2,191.60    | 2,254.29                | 2.00                    | -2.00                  | 0.00                  |
| 4,099.99  | 34.17           | 283.54      | 3,263.87              | 541.44       | -2,247.60    | 2,311.89                | 2.00                    | -2.00                  | 0.00                  |
| 4,199.99  | 32.17           | 283.54      | 3,347.57              | 554.26       | -2,300.79    | 2,366.61                | 2.00                    | -2.00                  | 0.00                  |
| 4,299.99  | 30.17           | 283.54      | 3,433.12              | 566.38       | -2,351.11    | 2,418.37                | 2.00                    | -2.00                  | 0.00                  |
| 4,399.99  | 28.17           | 283.54      | 3,520.44              | 577.79       | -2,398.49    | 2,467.11                | 2.00                    | -2.00                  | 0.00                  |
| 4,499.99  | 26.17           | 283.54      | 3,609.39              | 588.49       | -2,442.89    | 2,512.77                | 2.00                    | -2.00                  | 0.00                  |
| 4,599.99  | 24.17           | 283.54      | 3,699.89              | 598.45       | -2,484.24    | 2,555.31                | 2.00                    | -2.00                  | 0.00                  |
| 4,685.05  | 22.47           | 283.54      | 3,778.00              | 606.34       | -2,516.98    | 2,588.98                | 2.00                    | -2.00                  | 0.00                  |
| <b>OHIO CREEK TVD - MVRD TVD</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,699.99  | 22.17           | 283.54      | 3,791.82              | 607.67       | -2,522.49    | 2,594.66                | 2.00                    | -2.00                  | 0.00                  |
| 4,799.99  | 20.17           | 283.54      | 3,885.06              | 616.12       | -2,557.61    | 2,630.77                | 2.00                    | -2.00                  | 0.00                  |
| 4,899.99  | 18.17           | 283.54      | 3,979.51              | 623.82       | -2,589.53    | 2,663.61                | 2.00                    | -2.00                  | 0.00                  |
| 4,999.99  | 16.17           | 283.54      | 4,075.05              | 630.73       | -2,618.24    | 2,693.14                | 2.00                    | -2.00                  | 0.00                  |
| 5,099.99  | 14.17           | 283.54      | 4,171.56              | 636.86       | -2,643.68    | 2,719.31                | 2.00                    | -2.00                  | 0.00                  |
| 5,199.99  | 12.17           | 283.54      | 4,268.92              | 642.20       | -2,665.83    | 2,742.10                | 2.00                    | -2.00                  | 0.00                  |
| 5,299.99  | 10.17           | 283.54      | 4,367.02              | 646.73       | -2,684.67    | 2,761.47                | 2.00                    | -2.00                  | 0.00                  |
| 5,399.99  | 8.17            | 283.54      | 4,465.74              | 650.47       | -2,700.17    | 2,777.41                | 2.00                    | -2.00                  | 0.00                  |
| 5,499.99  | 6.17            | 283.54      | 4,564.95              | 653.39       | -2,712.31    | 2,789.90                | 2.00                    | -2.00                  | 0.00                  |
| 5,599.99  | 4.17            | 283.54      | 4,664.54              | 655.50       | -2,721.07    | 2,798.91                | 2.00                    | -2.00                  | 0.00                  |
| 5,699.99  | 2.17            | 283.54      | 4,764.38              | 656.80       | -2,726.45    | 2,804.45                | 2.00                    | -2.00                  | 0.00                  |
| 5,799.99  | 0.17            | 283.54      | 4,864.35              | 657.28       | -2,728.44    | 2,806.50                | 2.00                    | -2.00                  | 0.00                  |
| 5,808.64  | 0.00            | 0.00        | 4,873.00              | 657.28       | -2,728.46    | 2,806.51                | 2.00                    | -2.00                  | 884.04                |
| <b>Start 2053.00 hold at 5808.64 MD - KMGAS TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,899.99  | 0.00            | 0.00        | 4,964.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 5,999.99  | 0.00            | 0.00        | 5,064.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,099.99  | 0.00            | 0.00        | 5,164.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,199.99  | 0.00            | 0.00        | 5,264.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,299.99  | 0.00            | 0.00        | 5,364.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,399.99  | 0.00            | 0.00        | 5,464.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,499.99  | 0.00            | 0.00        | 5,564.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,599.99  | 0.00            | 0.00        | 5,664.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,699.99  | 0.00            | 0.00        | 5,764.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,799.99  | 0.00            | 0.00        | 5,864.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,899.99  | 0.00            | 0.00        | 5,964.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,999.99  | 0.00            | 0.00        | 6,064.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,099.99  | 0.00            | 0.00        | 6,164.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,199.99  | 0.00            | 0.00        | 6,264.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,231.64  | 0.00            | 0.00        | 6,296.00              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| <b>CMEO TVD</b>                                     |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,299.99  | 0.00            | 0.00        | 6,364.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,399.99  | 0.00            | 0.00        | 6,464.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,499.99  | 0.00            | 0.00        | 6,564.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,599.98  | 0.00            | 0.00        | 6,664.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,699.98  | 0.00            | 0.00        | 6,764.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,711.64  | 0.00            | 0.00        | 6,776.00              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| <b>RLNS TVD</b>                                     |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,799.98  | 0.00            | 0.00        | 6,864.35              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| 7,861.64  | 0.00            | 0.00        | 6,926.00              | 657.28       | -2,728.46    | 2,806.51                | 0.00                    | 0.00                   | 0.00                  |
| <b>TD at 7861.64 - TD TVD</b>                       |                 |             |                       |              |              |                         |                         |                        |                       |

# Scientific Drilling, Intl

## Planning Report

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | Grand Junction            | <b>Local Co-ordinate Reference:</b> | Well GM 431-19 - Slot GM 431-19             |
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>TVD Reference:</b>               | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>MD Reference:</b>                | GL 5752.1' & KB 24' @ 5776.10usft (H&P 318) |
| <b>Site:</b>     | GM 12-20 Pad              | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | GM 431-19                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | OH                        |                                     |   |
| <b>Design:</b>   | Plan 2 13Jan2020 sbsdi    |                                     |   |

| Design Targets  |                  |                 |               |                 |                 |                    |                   |            |              |
|---|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------|--------------|
| Target Name<br>- hit/miss target<br>- Shape                               | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude   | Longitude    |
| GM 431-19 KMV GAS<br>- plan hits target center<br>- Circle (radius 50.00) | 0.00             | 0.00            | 4,873.00      | 657.28          | -2,728.46       | 1,622,863.1000     | 2,252,675.5000    | 39.5136225 | -108.1492430 |
| GM 431-19 PBHL<br>- plan hits target center<br>- Point                    | 0.00             | 0.00            | 6,926.00      | 657.28          | -2,728.46       | 1,622,863.1000     | 2,252,675.5000    | 39.5136225 | -108.1492430 |

| Casing Points               |                             |                          |                            |                          |  |
|-----------------------------|-----------------------------|--------------------------|----------------------------|--------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name                     | Casing<br>Diameter<br>(in) | Hole<br>Diameter<br>(in) |  |
| 1,100.00                    | 1,028.64                    | 9 5/8" Casing @ 1000' MD | 9.62                       | 13.50                    |  |

| Formations                  |                             |                |           |            |                         |  |
|-----------------------------|-----------------------------|----------------|-----------|------------|-------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name           | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |  |
| 2,424.11                    | 2,008.00                    | G_SAND TVD     |           | 0.00       |                         |  |
| 2,559.61                    | 2,108.00                    | G_SAND_BASE    |           | 0.00       |                         |  |
| 2,966.09                    | 2,408.00                    | FRUN TVD       |           | 0.00       |                         |  |
| 4,685.05                    | 3,778.00                    | OHIO CREEK TVD |           | 0.00       |                         |  |
| 4,685.05                    | 3,778.00                    | MVRD TVD       |           | 0.00       |                         |  |
| 5,808.64                    | 4,873.00                    | KMVGAS TVD     |           | 0.00       |                         |  |
| 7,231.64                    | 6,296.00                    | CMEO TVD       |           | 0.00       |                         |  |
| 7,711.64                    | 6,776.00                    | RLNS TVD       |           | 0.00       |                         |  |
| 7,861.64                    | 6,926.00                    | TD TVD         |           | 0.00       |                         |  |

| Plan Annotations            |                             |                   |                 |                                  |  |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                          |  |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                  |  |
| 135.00                      | 135.00                      | 0.00              | 0.00            | Start Build 4.00                 |  |
| 1,195.89                    | 1,101.52                    | 87.88             | -364.80         | Start 2490.98 hold at 1195.89 MD |  |
| 3,686.86                    | 2,939.96                    | 481.52            | -1,998.86       | Start Drop -2.00                 |  |
| 5,808.64                    | 4,873.00                    | 657.28            | -2,728.46       | Start 2053.00 hold at 5808.64 MD |  |
| 7,861.64                    | 6,926.00                    | 657.28            | -2,728.46       | TD at 7861.64                    |  |