



## Directional Survey Certification

2948 I-70 Business Loop  
Grand Junction, CO 81504  
(970)-245-9447 Fax (970)-245-9454

|                 |                          |
|-----------------|--------------------------|
| Operator        | TEP Rocky Mountain, LLC. |
| Well Name & No. | PA 543-26                |
| County & State  | Garfield County, CO      |
| SDI Job No.     | OP.006257                |
| Rig             | H&P 271                  |

I,                     Mel Mireles Jr.                    , having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of           124           feet to a measured depth of   8,615   feet is true and correct as determined from all available records.

Signature

                    18-Dec-17                    

Date

### **Mel Mireles Jr.**

Grand Junction Assistant Well Planner  
Scientific Drilling - Colorado District



## **TEP Rocky Mountain LLC**

**Garfield County, CO NAD83**

**PA 22-25 Pad**

**PA 543-26 - Slot PA 543-26 (A4)**

**OH**

**Design: OH**

## **Standard Survey Report**

**31 January, 2018**



|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>Local Co-ordinate Reference:</b> | Well PA 543-26 - Slot PA 543-26 (A4) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>TVD Reference:</b>               | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Site:</b>     | PA 22-25 Pad              | <b>MD Reference:</b>                | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Well:</b>     | PA 543-26                 | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Grand Junction District              |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <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>                  | PA 22-25 Pad |                     |                   |                          |              |
| <b>Site Position:</b>        |              | <b>Northing:</b>    | 1,615,186.77 usft | <b>Latitude:</b>         | 39.4968742   |
| <b>From:</b>                 | Map          | <b>Easting:</b>     | 2,308,728.18 usft | <b>Longitude:</b>        | -107.9499045 |
| <b>Position Uncertainty:</b> | 0.00 usft    | <b>Slot Radius:</b> | 13.20 in          | <b>Grid Convergence:</b> | -1.55 °      |

|                             |                                     |           |                            |                   |                      |               |
|-----------------------------|-------------------------------------|-----------|----------------------------|-------------------|----------------------|---------------|
| <b>Well</b>                 | PA 543-26 - Slot PA 543-26 (A4), A4 |           |                            |                   |                      |               |
| <b>Well Position</b>        | <b>+N/-S</b>                        | 0.00 usft | <b>Northing:</b>           | 1,615,189.49 usft | <b>Latitude:</b>     | 39.4968837    |
|                             | <b>+E/-W</b>                        | 0.00 usft | <b>Easting:</b>            | 2,308,755.28 usft | <b>Longitude:</b>    | -107.9498088  |
| <b>Position Uncertainty</b> |                                     | 0.00 usft | <b>Wellhead Elevation:</b> | 0.00 usft         | <b>Ground Level:</b> | 5,224.00 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              | 11/29/2017         | 9.42                   | 65.78                | 51,681                     |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <b>Design</b>            | OH                             |                     |                     |                      |      |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>       | ACTUAL              | <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                | 131.81               |      |

|                       |                  |  |                  |                                    |  |
|-----------------------|------------------|--|------------------|------------------------------------|--|
| <b>Survey Program</b> | <b>Date</b>      | 1/31/2018                              |                  |                                    |  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>               | <b>Tool Name</b> | <b>Description</b>                 |  |
| 124.00                | 306.00           | Survey #1 - Gyro MWD Survey (OH)       | SDI Gyro MWD 104 | SDI Gyro MWD Error Model Ver 1.0.4 |  |
| 398.00                | 1,073.00         | Survey #2 - Surface MWD Survey (OH)    | SDI MWD          | SDI MWD - Standard ver 1.0.1       |  |
| 1,266.00              | 8,615.00         | Survey #3 - Production MWD Survey (OH) | SDI MWD          | SDI MWD - Standard ver 1.0.1       |  |

|                                     |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
|-------------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <b>Survey</b>                       |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| <b>Measured Depth (usft)</b>        | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |  |
| 0.00                                | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| <b>SHL (PA 543-26)</b>              |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| 124.00                              | 0.26                   | 30.94              | 124.00                       | 0.24                | 0.14                | -0.05                          | 0.21                           | 0.21                          | 0.00                         |  |
| <b>First SDI Gyro MWD Survey</b>    |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| 214.00                              | 0.35                   | 129.38             | 214.00                       | 0.24                | 0.46                | 0.18                           | 0.52                           | 0.10                          | 109.38                       |  |
| 306.00                              | 2.20                   | 148.27             | 305.97                       | -1.44               | 1.61                | 2.16                           | 2.04                           | 2.01                          | 20.53                        |  |
| <b>Last SDI Gyro MWD Survey</b>     |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| 398.00                              | 4.22                   | 162.25             | 397.82                       | -6.16               | 3.57                | 6.77                           | 2.34                           | 2.20                          | 15.20                        |  |
| <b>First SDI Surface MWD Survey</b> |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |

|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>Local Co-ordinate Reference:</b> | Well PA 543-26 - Slot PA 543-26 (A4) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>TVD Reference:</b>               | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Site:</b>     | PA 22-25 Pad              | <b>MD Reference:</b>                | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Well:</b>     | PA 543-26                 | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Grand Junction District              |

| 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) |  |
| 489.00                                 | 5.81            | 165.67      | 488.47                | -13.82       | 5.73         | 13.48                   | 1.78                    | 1.75                   | 3.76                  |  |
| 580.00                                 | 5.72            | 173.94      | 579.01                | -22.79       | 7.35         | 20.67                   | 0.92                    | -0.10                  | 9.09                  |  |
| 672.00                                 | 4.75            | 200.57      | 670.64                | -30.92       | 6.49         | 25.45                   | 2.81                    | -1.05                  | 28.95                 |  |
| 765.00                                 | 3.43            | 232.29      | 763.42                | -36.22       | 2.94         | 26.34                   | 2.76                    | -1.42                  | 34.11                 |  |
| 857.00                                 | 2.55            | 260.51      | 855.29                | -38.24       | -1.26        | 24.56                   | 1.84                    | -0.96                  | 30.67                 |  |
| 950.00                                 | 1.06            | 306.30      | 948.25                | -38.08       | -3.99        | 22.41                   | 2.11                    | -1.60                  | 49.24                 |  |
| 1,025.00                               | 1.14            | 326.07      | 1,023.24              | -37.05       | -4.97        | 21.00                   | 0.51                    | 0.11                   | 26.36                 |  |
| 1,073.00                               | 1.67            | 333.28      | 1,071.22              | -36.03       | -5.55        | 19.88                   | 1.16                    | 1.10                   | 15.02                 |  |
| <b>Last SDI Surface MWD Survey</b>     |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 1,266.00                               | 0.96            | 283.07      | 1,264.17              | -33.15       | -8.39        | 15.85                   | 0.67                    | -0.37                  | -26.02                |  |
| <b>First SDI Production MWD Survey</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 1,361.00                               | 0.51            | 275.65      | 1,359.17              | -32.93       | -9.58        | 14.81                   | 0.48                    | -0.47                  | -7.81                 |  |
| 1,456.00                               | 0.77            | 231.45      | 1,454.16              | -33.28       | -10.50       | 14.36                   | 0.57                    | 0.27                   | -46.53                |  |
| 1,550.00                               | 3.45            | 220.44      | 1,548.09              | -35.83       | -12.83       | 14.32                   | 2.87                    | 2.85                   | -11.71                |  |
| 1,645.00                               | 6.10            | 212.49      | 1,642.75              | -42.26       | -17.40       | 15.21                   | 2.87                    | 2.79                   | -8.37                 |  |
| 1,740.00                               | 7.68            | 232.59      | 1,737.08              | -50.38       | -25.15       | 14.84                   | 3.01                    | 1.66                   | 21.16                 |  |
| 1,835.00                               | 9.42            | 229.12      | 1,831.02              | -59.32       | -36.07       | 12.66                   | 1.91                    | 1.83                   | -3.65                 |  |
| 1,929.00                               | 11.65           | 232.82      | 1,923.43              | -70.10       | -49.45       | 9.87                    | 2.48                    | 2.37                   | 3.94                  |  |
| 2,024.00                               | 16.02           | 236.15      | 2,015.65              | -83.20       | -67.99       | 4.79                    | 4.67                    | 4.60                   | 3.51                  |  |
| 2,119.00                               | 19.47           | 234.10      | 2,106.12              | -99.79       | -91.71       | -1.83                   | 3.69                    | 3.63                   | -2.16                 |  |
| 2,213.00                               | 21.77           | 233.56      | 2,194.09              | -119.33      | -118.43      | -8.72                   | 2.46                    | 2.45                   | -0.57                 |  |
| 2,308.00                               | 24.41           | 232.91      | 2,281.47              | -141.64      | -148.26      | -16.09                  | 2.79                    | 2.78                   | -0.68                 |  |
| 2,402.00                               | 28.24           | 232.77      | 2,365.71              | -166.82      | -181.48      | -24.06                  | 4.08                    | 4.07                   | -0.15                 |  |
| 2,497.00                               | 30.60           | 233.87      | 2,448.45              | -194.68      | -218.91      | -33.38                  | 2.55                    | 2.48                   | 1.16                  |  |
| 2,591.00                               | 32.82           | 234.43      | 2,528.42              | -223.61      | -258.96      | -43.95                  | 2.38                    | 2.36                   | 0.60                  |  |
| 2,686.00                               | 35.62           | 235.18      | 2,606.96              | -254.38      | -302.62      | -55.97                  | 2.98                    | 2.95                   | 0.79                  |  |
| 2,780.00                               | 37.88           | 233.87      | 2,682.28              | -287.03      | -348.41      | -68.34                  | 2.54                    | 2.40                   | -1.39                 |  |
| 2,875.00                               | 37.28           | 233.94      | 2,757.56              | -321.17      | -395.22      | -80.48                  | 0.63                    | -0.63                  | 0.07                  |  |
| 2,969.00                               | 38.28           | 232.11      | 2,831.86              | -355.81      | -441.22      | -91.67                  | 1.60                    | 1.06                   | -1.95                 |  |
| 3,064.00                               | 40.26           | 231.87      | 2,905.40              | -392.84      | -488.59      | -102.29                 | 2.09                    | 2.08                   | -0.25                 |  |
| 3,158.00                               | 39.97           | 231.49      | 2,977.29              | -430.39      | -536.11      | -112.67                 | 0.40                    | -0.31                  | -0.40                 |  |
| 3,253.00                               | 38.86           | 231.40      | 3,050.68              | -467.99      | -583.28      | -122.77                 | 1.17                    | -1.17                  | -0.09                 |  |
| 3,347.00                               | 40.77           | 231.42      | 3,122.88              | -505.53      | -630.32      | -132.81                 | 2.03                    | 2.03                   | 0.02                  |  |
| 3,442.00                               | 40.26           | 231.14      | 3,195.10              | -544.13      | -678.47      | -142.96                 | 0.57                    | -0.54                  | -0.29                 |  |
| 3,536.00                               | 42.43           | 232.06      | 3,265.67              | -582.69      | -727.14      | -153.53                 | 2.40                    | 2.31                   | 0.98                  |  |
| 3,631.00                               | 41.58           | 232.44      | 3,336.26              | -621.61      | -777.41      | -165.05                 | 0.93                    | -0.89                  | 0.40                  |  |
| 3,726.00                               | 40.38           | 232.23      | 3,407.98              | -659.68      | -826.72      | -176.43                 | 1.27                    | -1.26                  | -0.22                 |  |
| 3,821.00                               | 42.38           | 232.36      | 3,479.26              | -698.08      | -876.41      | -187.86                 | 2.11                    | 2.11                   | 0.14                  |  |
| 3,916.00                               | 42.03           | 232.67      | 3,549.63              | -736.92      | -927.05      | -199.72                 | 0.43                    | -0.37                  | 0.33                  |  |
| 4,011.00                               | 42.30           | 233.35      | 3,620.05              | -775.29      | -977.98      | -212.11                 | 0.56                    | 0.28                   | 0.72                  |  |
| 4,105.00                               | 41.28           | 232.27      | 3,690.13              | -813.15      | -1,027.89    | -224.06                 | 1.33                    | -1.09                  | -1.15                 |  |
| 4,200.00                               | 40.90           | 232.39      | 3,761.73              | -851.30      | -1,077.31    | -235.46                 | 0.41                    | -0.40                  | 0.13                  |  |
| 4,295.00                               | 40.96           | 232.86      | 3,833.51              | -889.08      | -1,126.77    | -247.14                 | 0.33                    | 0.06                   | 0.49                  |  |

|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>Local Co-ordinate Reference:</b> | Well PA 543-26 - Slot PA 543-26 (A4) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>TVD Reference:</b>               | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Site:</b>     | PA 22-25 Pad              | <b>MD Reference:</b>                | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Well:</b>     | PA 543-26                 | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Grand Junction District              |

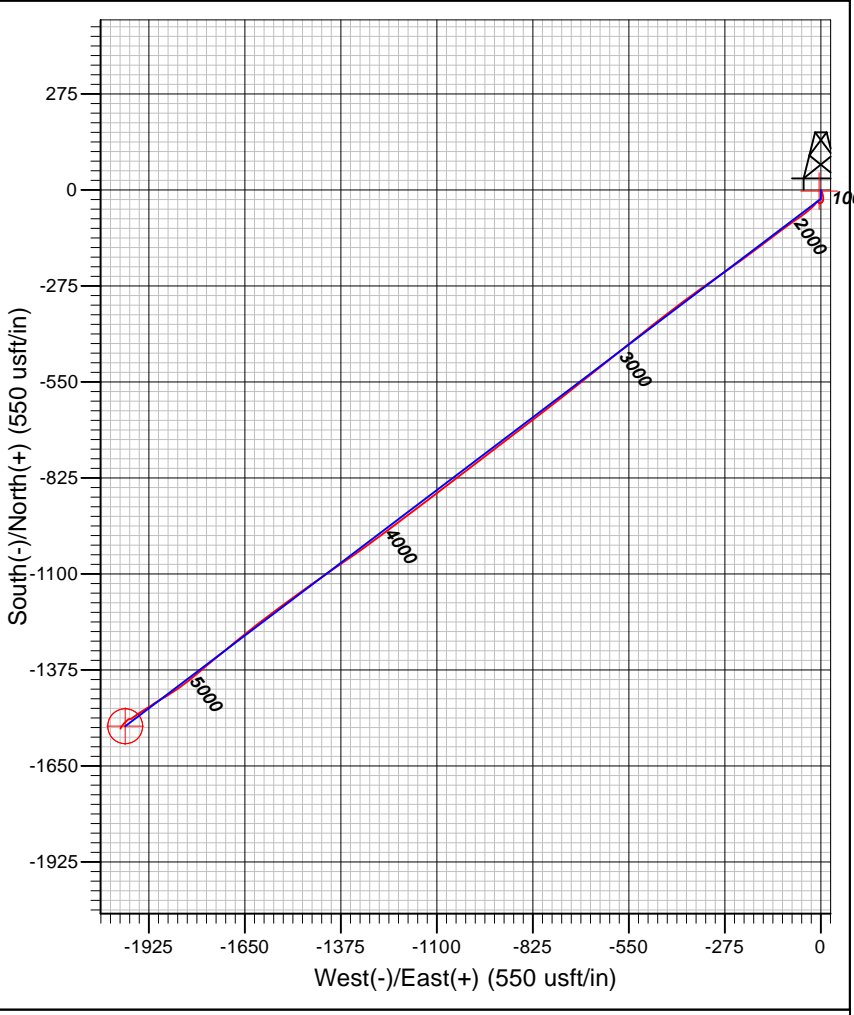
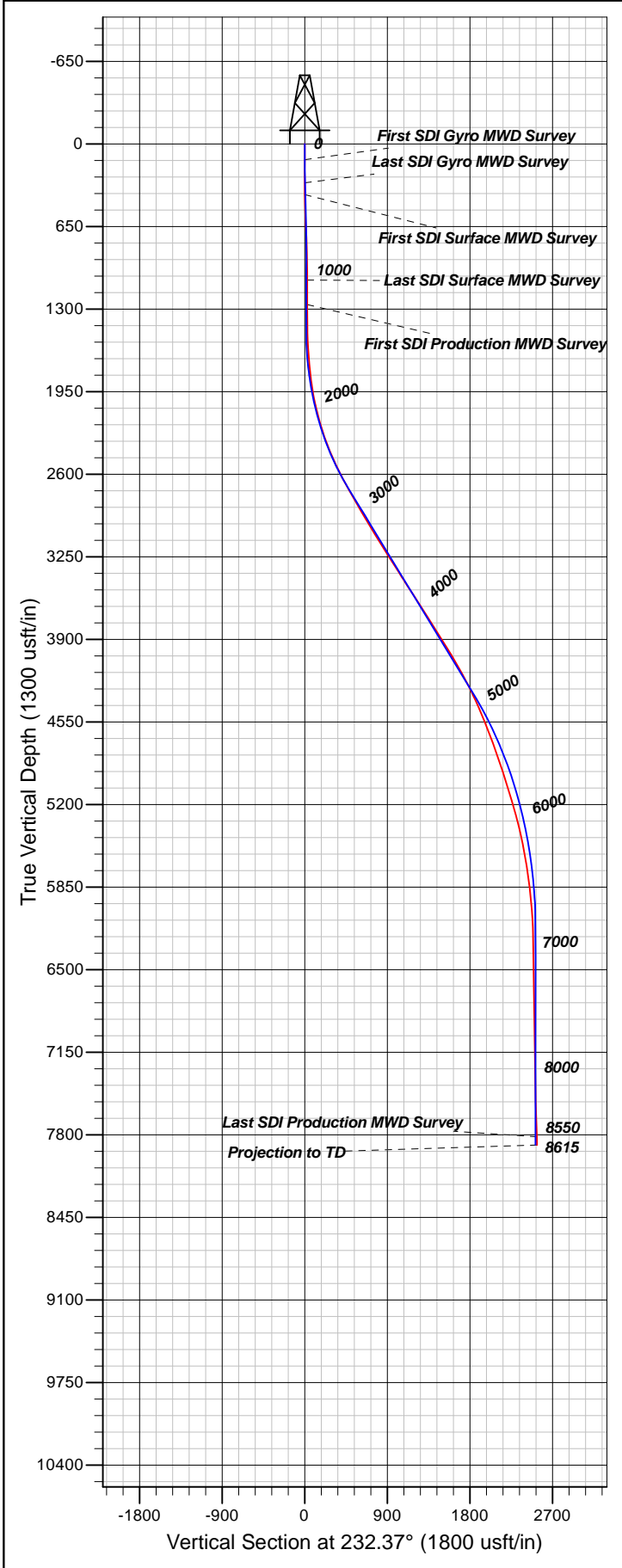
| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| 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) |  |
| 4,390.00              | 40.77           | 233.02      | 3,905.35              | -926.54      | -1,176.37    | -259.14                 | 0.23                    | -0.20                  | 0.17                  |  |
| 4,505.00              | 40.54           | 232.91      | 3,992.59              | -971.67      | -1,236.18    | -273.64                 | 0.21                    | -0.20                  | -0.10                 |  |
| 4,579.00              | 39.31           | 233.35      | 4,049.34              | -1,000.16    | -1,274.17    | -282.96                 | 1.71                    | -1.66                  | 0.59                  |  |
| 4,706.00              | 37.81           | 235.37      | 4,148.65              | -1,046.30    | -1,338.48    | -300.14                 | 1.54                    | -1.18                  | 1.59                  |  |
| 4,769.00              | 36.60           | 235.93      | 4,198.83              | -1,067.80    | -1,369.93    | -309.25                 | 1.99                    | -1.92                  | 0.89                  |  |
| 4,864.00              | 34.45           | 234.75      | 4,276.14              | -1,099.18    | -1,415.34    | -322.17                 | 2.38                    | -2.26                  | -1.24                 |  |
| 4,959.00              | 32.82           | 235.11      | 4,355.23              | -1,129.41    | -1,458.40    | -334.11                 | 1.73                    | -1.72                  | 0.38                  |  |
| 5,054.00              | 30.97           | 233.07      | 4,435.89              | -1,158.83    | -1,499.06    | -344.81                 | 2.25                    | -1.95                  | -2.15                 |  |
| 5,148.00              | 30.03           | 233.74      | 4,516.88              | -1,187.27    | -1,537.36    | -354.40                 | 1.06                    | -1.00                  | 0.71                  |  |
| 5,220.24              | 28.93           | 233.63      | 4,579.77              | -1,208.33    | -1,566.01    | -361.71                 | 1.53                    | -1.53                  | -0.16                 |  |
| <b>PA 543-26 MVRD</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 5,243.00              | 28.58           | 233.59      | 4,599.72              | -1,214.82    | -1,574.82    | -363.95                 | 1.53                    | -1.53                  | -0.16                 |  |
| 5,338.00              | 27.88           | 232.57      | 4,683.42              | -1,241.81    | -1,610.75    | -372.74                 | 0.89                    | -0.74                  | -1.07                 |  |
| 5,432.00              | 26.03           | 230.43      | 4,767.21              | -1,268.31    | -1,644.10    | -379.93                 | 2.22                    | -1.97                  | -2.28                 |  |
| 5,527.00              | 25.24           | 230.92      | 4,852.86              | -1,294.36    | -1,675.90    | -386.27                 | 0.86                    | -0.83                  | 0.52                  |  |
| 5,622.00              | 23.91           | 230.68      | 4,939.25              | -1,319.33    | -1,706.51    | -392.44                 | 1.40                    | -1.40                  | -0.25                 |  |
| 5,717.00              | 23.28           | 230.89      | 5,026.31              | -1,343.37    | -1,735.97    | -398.37                 | 0.67                    | -0.66                  | 0.22                  |  |
| 5,812.00              | 22.75           | 229.93      | 5,113.75              | -1,367.04    | -1,764.60    | -403.93                 | 0.68                    | -0.56                  | -1.01                 |  |
| 5,906.00              | 22.22           | 229.86      | 5,200.60              | -1,390.19    | -1,792.10    | -408.99                 | 0.56                    | -0.56                  | -0.07                 |  |
| 6,001.00              | 20.90           | 232.36      | 5,288.95              | -1,412.12    | -1,819.25    | -414.61                 | 1.69                    | -1.39                  | 2.63                  |  |
| 6,095.00              | 18.57           | 235.80      | 5,377.43              | -1,430.78    | -1,844.91    | -421.30                 | 2.77                    | -2.48                  | 3.66                  |  |
| 6,190.00              | 16.71           | 238.09      | 5,467.96              | -1,446.50    | -1,869.02    | -428.78                 | 2.09                    | -1.96                  | 2.41                  |  |
| 6,285.00              | 14.45           | 240.69      | 5,559.46              | -1,459.53    | -1,890.95    | -436.45                 | 2.49                    | -2.38                  | 2.74                  |  |
| 6,379.00              | 12.85           | 235.66      | 5,650.81              | -1,471.16    | -1,909.81    | -442.75                 | 2.12                    | -1.70                  | -5.35                 |  |
| 6,474.00              | 11.41           | 237.69      | 5,743.69              | -1,482.15    | -1,926.47    | -447.85                 | 1.58                    | -1.52                  | 2.14                  |  |
| 6,568.00              | 10.05           | 237.86      | 5,836.04              | -1,491.48    | -1,941.28    | -452.66                 | 1.45                    | -1.45                  | 0.18                  |  |
| 6,663.00              | 7.33            | 235.52      | 5,929.94              | -1,499.32    | -1,953.29    | -456.39                 | 2.89                    | -2.86                  | -2.46                 |  |
| 6,757.00              | 6.01            | 235.36      | 6,023.30              | -1,505.51    | -1,962.29    | -458.96                 | 1.40                    | -1.40                  | -0.17                 |  |
| 6,852.00              | 4.61            | 229.61      | 6,117.89              | -1,510.82    | -1,969.29    | -460.65                 | 1.57                    | -1.47                  | -6.05                 |  |
| 6,946.00              | 3.02            | 244.38      | 6,211.68              | -1,514.33    | -1,974.40    | -462.11                 | 1.98                    | -1.69                  | 15.71                 |  |
| 7,041.00              | 1.62            | 286.62      | 6,306.61              | -1,515.03    | -1,977.94    | -464.28                 | 2.23                    | -1.47                  | 44.46                 |  |
| 7,135.00              | 0.51            | 259.35      | 6,400.59              | -1,514.73    | -1,979.62    | -465.74                 | 1.27                    | -1.18                  | -29.01                |  |
| 7,230.00              | 1.02            | 236.08      | 6,495.58              | -1,515.28    | -1,980.74    | -466.21                 | 0.62                    | 0.54                   | -24.49                |  |
| 7,324.00              | 1.12            | 231.25      | 6,589.57              | -1,516.32    | -1,982.15    | -466.56                 | 0.14                    | 0.11                   | -5.14                 |  |
| 7,419.00              | 1.37            | 245.10      | 6,684.55              | -1,517.38    | -1,983.91    | -467.17                 | 0.41                    | 0.26                   | 14.58                 |  |
| 7,513.00              | 1.17            | 235.57      | 6,778.52              | -1,518.40    | -1,985.72    | -467.84                 | 0.31                    | -0.21                  | -10.14                |  |
| 7,608.00              | 1.52            | 226.04      | 6,873.50              | -1,519.82    | -1,987.42    | -468.16                 | 0.44                    | 0.37                   | -10.03                |  |
| 7,702.00              | 1.43            | 215.51      | 6,967.47              | -1,521.64    | -1,989.00    | -468.13                 | 0.30                    | -0.10                  | -11.20                |  |
| 7,797.00              | 1.43            | 226.18      | 7,062.44              | -1,523.43    | -1,990.55    | -468.09                 | 0.28                    | 0.00                   | 11.23                 |  |
| 7,891.00              | 1.31            | 233.39      | 7,156.41              | -1,524.88    | -1,992.26    | -468.39                 | 0.22                    | -0.13                  | 7.67                  |  |
| 7,986.00              | 0.74            | 245.99      | 7,251.39              | -1,525.78    | -1,993.69    | -468.86                 | 0.64                    | -0.60                  | 13.26                 |  |
| 8,080.00              | 0.97            | 219.02      | 7,345.38              | -1,526.64    | -1,994.74    | -469.07                 | 0.49                    | 0.24                   | -28.69                |  |
| 8,174.00              | 1.68            | 214.78      | 7,439.36              | -1,528.39    | -1,996.03    | -468.86                 | 0.76                    | 0.76                   | -4.51                 |  |
| 8,267.00              | 2.41            | 223.96      | 7,532.30              | -1,530.92    | -1,998.16    | -468.77                 | 0.86                    | 0.78                   | 9.87                  |  |

|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | TEP Rocky Mountain LLC    | <b>Local Co-ordinate Reference:</b> | Well PA 543-26 - Slot PA 543-26 (A4) |
| <b>Project:</b>  | Garfield County, CO NAD83 | <b>TVD Reference:</b>               | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Site:</b>     | PA 22-25 Pad              | <b>MD Reference:</b>                | GL 5224' RKB 24' @ 5248.00usft       |
| <b>Well:</b>     | PA 543-26                 | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Grand Junction District              |

| 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) |  |
| 8,361.00                                 | 2.73            | 217.53      | 7,626.20              | -1,534.12    | -2,000.90    | -468.68                 | 0.46                    | 0.34                   | -6.84                 |  |
| 8,455.00                                 | 2.46            | 207.68      | 7,720.11              | -1,537.68    | -2,003.20    | -468.02                 | 0.55                    | -0.29                  | -10.48                |  |
| 8,550.00                                 | 2.10            | 203.56      | 7,815.03              | -1,541.08    | -2,004.84    | -466.97                 | 0.42                    | -0.38                  | -4.34                 |  |
| <b>Last SDI Production MWD Survey</b>    |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 8,612.57                                 | 2.10            | 203.56      | 7,877.56              | -1,543.18    | -2,005.76    | -466.26                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>PA 543-26 PBHL - PBHL (PA 543-26)</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 8,615.00                                 | 2.10            | 203.56      | 7,879.99              | -1,543.26    | -2,005.80    | -466.23                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Projection to TD</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Annotations    |                       |                   |              |                                 |  |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                         |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                 |  |
| 124.00                | 124.00                | 0.24              | 0.14         | First SDI Gyro MWD Survey       |  |
| 306.00                | 305.97                | -1.44             | 1.61         | Last SDI Gyro MWD Survey        |  |
| 398.00                | 397.82                | -6.16             | 3.57         | First SDI Surface MWD Survey    |  |
| 1,073.00              | 1,071.22              | -36.03            | -5.55        | Last SDI Surface MWD Survey     |  |
| 1,266.00              | 1,264.17              | -33.15            | -8.39        | First SDI Production MWD Survey |  |
| 8,550.00              | 7,815.03              | -1,541.08         | -2,004.84    | Last SDI Production MWD Survey  |  |
| 8,615.00              | 7,879.99              | -1,543.26         | -2,005.80    | Projection to TD                |  |

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



|   |       |            |            |            |              |
|---|-------|------------|------------|------------|--------------|
| <b>Well Details: PA 543-26</b>  |       |            |            |            |              |
| TVD Reference: WELL @ 5248.00usft (Original Well Elev) Level: 5224.00         |       |            |            |            |              |
| +N/-S   | +E/-W | Northing   | Easting    | Latitude   | Longitude    |
| 0.00  | 0.00  | 1615189.49 | 2308755.28 | 39.4968836 | -107.9498088 |
| Slot PA 543-26 (A4)   |       |            |            |            |              |
| <b>REFERENCE INFORMATION</b>  |       |            |            |            |              |
| Co-ordinate (N/E) Reference: Well PA 543-26 - Slot PA 543-26 (A4), True North |       |            |            |            |              |
| Vertical (TVD) Reference: WELL @ 5248.00usft (Original Well Elev)             |       |            |            |            |              |
| Section (VS) Reference: Slot - PA 543-26 (A4)(0.00N, 0.00E)                   |       |            |            |            |              |
| Measured Depth Reference: WELL @ 5248.00usft (Original Well Elev)             |       |            |            |            |              |
| Calculation Method: Minimum Curvature   |       |            |            |            |              |
| <b>PROJECT DETAILS: Garfield County, CO NAD83</b>                             |       |            |            |            |              |
| Geodetic System: US State Plane 1983  |       |            |            |            |              |
| Datum: North American Datum 1983  |       |            |            |            |              |
| Ellipsoid: GRS 1980   |       |            |            |            |              |
| Zone: Colorado Central Zone   |       |            |            |            |              |
| System Datum: Mean Sea Level  |       |            |            |            |              |
| Plan: Plan #1   |       |            |            |            |              |
| 10:11, January 31 2018<br>Created By: Mel Mireles Jr.                         |       |            |            |            |              |