



Directional Survey Certification

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

| | |
|----------------------------|-----------------------|
| Operator | Terra Energy Partners |
| Well Name & No. | RU 323-7 |
| County & State | Garfield, CO |
| SDI Job No. | 420816DEFK381061 |
| Rig | H&P 318 |

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 115 feet to a measured depth of 9,565 feet is true and correct as determined from all available records.

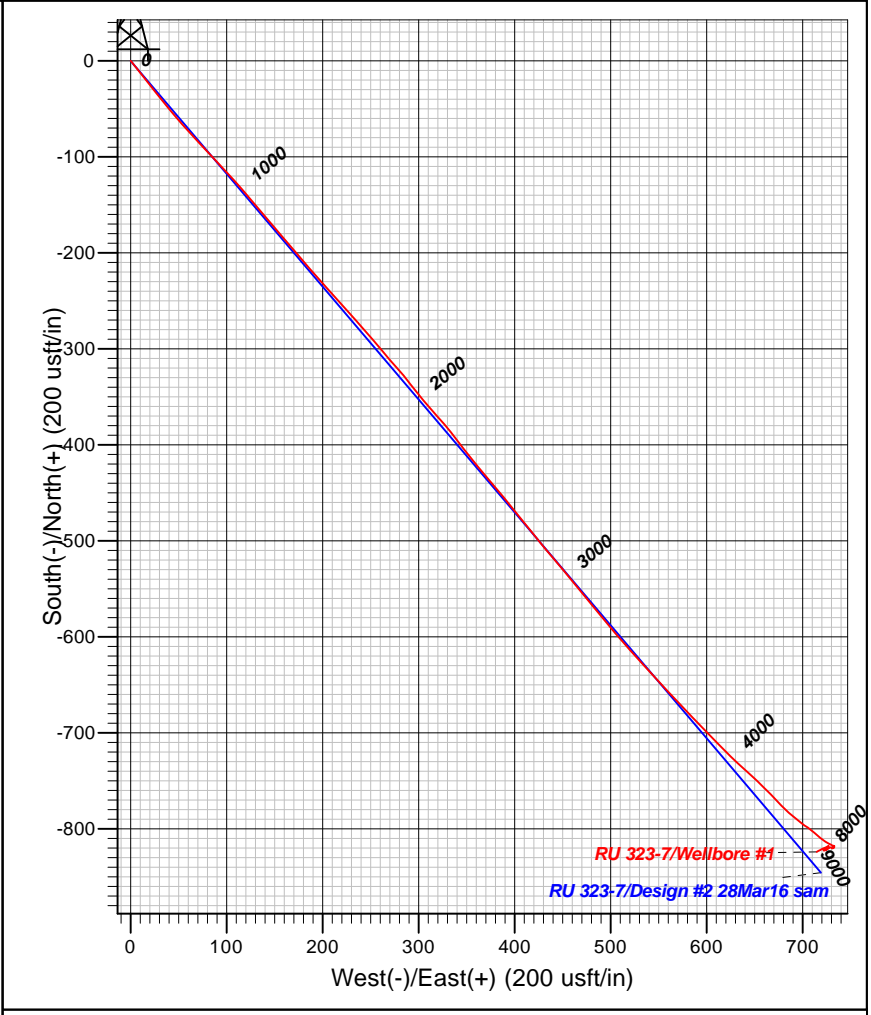
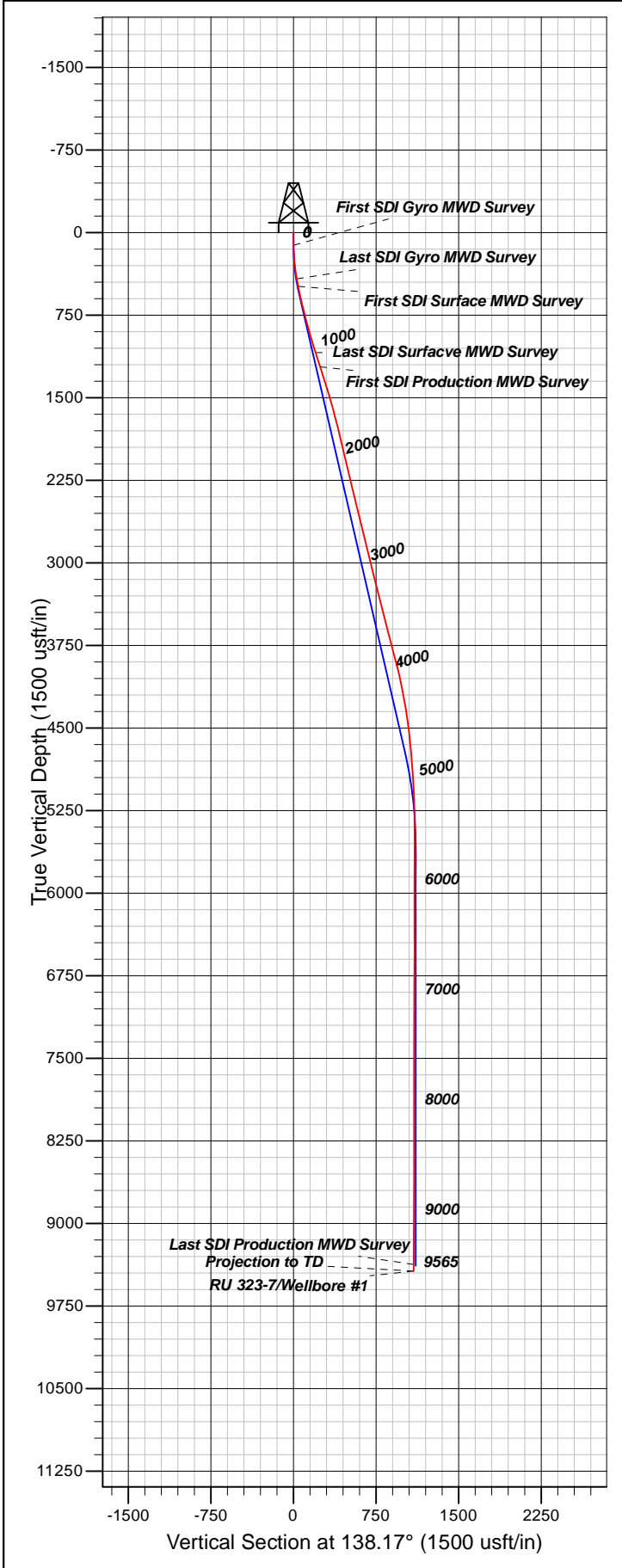
Signature

7-Sep-16

Date

Janie Collins

Colorado District Well Planner
Scientific Drilling International



| | |
|--|---------------------------|
| Well Details: RU 323-7 | |
| TVD Reference: GL 7339' & RKB 24' @ 7363.00usft (H&P 318) and Level: 7339.00 | |
| +N/-S 0.00 | +E/-W 0.00 |
| Northing 1599687.80 | Easting 2345090.86 |
| Latitude 39.4569574 | Longitude -107.8196885 |
| RU 323-7 (A4) | |
| REFERENCE INFORMATION | |
| Co-ordinate (N/E) Reference: Well RU 323-7 - Slot RU 323-7 (A4), True North | |
| Vertical (TVD) Reference: GL 7339' & RKB 24' @ 7363.00usft (H&P 318) | |
| Section (VS) Reference: Slot - RU 323-7 (A4)(0.00N, 0.00E) | |
| Measured Depth Reference: GL 7339' & RKB 24' @ 7363.00usft (H&P 318) | |
| Calculation Method: Minimum Curvature | |
| 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 | |
| Plan: Wellbore #1 | |
| 17:22, September 07 2016 Created By: Janie Collins | |

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|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well RU 323-7 - Slot RU 323-7 (A4) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Site: | RU 22-7 Pad | MD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Well: | RU 323-7 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Grand Junction District |

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|--------------------|---------------------------|----------------------|----------------|
| Project | Garfield County, CO NAD83 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

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|------------------------------|-------------|---------------------|-------------------|--------------------------|--------------|
| Site | RU 22-7 Pad | | | | |
| Site Position: | | Northing: | 1,599,673.59 usft | Latitude: | 39.4569181 |
| From: | Map | Easting: | 2,345,086.00 usft | Longitude: | -107.8197045 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in | Grid Convergence: | -1.46 ° |

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|-----------------------------|-------------------------------|-----------|----------------------------|-------------------|----------------------|---------------|
| Well | RU 323-7 - Slot RU 323-7 (A4) | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,599,687.79 usft | Latitude: | 39.4569574 |
| | +E/-W | 0.00 usft | Easting: | 2,345,090.86 usft | Longitude: | -107.8196886 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 7,339.00 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 8/26/2016 | 9.35 | 65.68 | 51,788 |

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|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 138.17 | |

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|-----------------------|------------------|--|------------------|------------------------------------|--|
| Survey Program | Date | 9/7/2016 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 115.00 | 422.00 | Survey #1 - Gyro Survey (Wellbore #1) | SDI Gyro MWD 104 | SDI Gyro MWD Error Model Ver 1.0.4 | |
| 491.00 | 1,114.00 | Survey #2 - Surface MWD Survey (Wellbo | SDI MWD | SDI MWD - Standard ver 1.0.1 | |
| 1,249.00 | 9,565.00 | Survey #3 - Production MWD Survey (Wel | SDI MWD | SDI MWD - Standard ver 1.0.1 | |

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|----------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|------|
| 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 | 0.00 |
| 115.00 | 0.88 | 139.48 | 115.00 | -0.67 | 0.57 | 0.88 | 0.77 | 0.77 | 0.77 | 0.00 |
| First SDI Gyro MWD Survey | | | | | | | | | | |
| 150.00 | 1.76 | 141.33 | 149.99 | -1.30 | 1.08 | 1.69 | 2.52 | 2.51 | 5.29 | |
| 240.00 | 4.40 | 142.03 | 239.85 | -5.10 | 4.07 | 6.51 | 2.93 | 2.93 | 0.78 | |
| 331.00 | 7.21 | 140.54 | 330.37 | -12.26 | 9.85 | 15.70 | 3.09 | 3.09 | -1.64 | |
| 422.00 | 10.12 | 142.38 | 420.32 | -23.00 | 18.36 | 29.39 | 3.21 | 3.20 | 2.02 | |
| Last SDI Gyro MWD Survey | | | | | | | | | | |

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|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well RU 323-7 - Slot RU 323-7 (A4) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Site: | RU 22-7 Pad | MD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Well: | RU 323-7 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | 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) | |
| 491.00 | 11.32 | 141.56 | 488.12 | -33.11 | 26.27 | 42.19 | 1.75 | 1.74 | -1.19 | |
| First SDI Surface MWD Survey | | | | | | | | | | |
| 583.00 | 12.52 | 140.80 | 578.13 | -47.91 | 38.19 | 61.17 | 1.32 | 1.30 | -0.83 | |
| 673.00 | 13.54 | 138.72 | 665.82 | -63.39 | 51.31 | 81.45 | 1.25 | 1.13 | -2.31 | |
| 764.00 | 14.73 | 137.67 | 754.06 | -79.95 | 66.12 | 103.67 | 1.34 | 1.31 | -1.15 | |
| 855.00 | 15.35 | 136.27 | 841.94 | -97.20 | 82.24 | 127.28 | 0.79 | 0.68 | -1.54 | |
| 946.00 | 16.09 | 136.75 | 929.54 | -115.09 | 99.21 | 151.92 | 0.83 | 0.81 | 0.53 | |
| 1,036.00 | 16.49 | 139.68 | 1,015.93 | -133.91 | 116.02 | 177.16 | 1.02 | 0.44 | 3.26 | |
| 1,114.00 | 17.32 | 139.52 | 1,090.55 | -151.19 | 130.72 | 199.83 | 1.07 | 1.06 | -0.21 | |
| Last SDI Surface MWD Survey | | | | | | | | | | |
| 1,249.00 | 18.11 | 139.90 | 1,219.15 | -182.52 | 157.28 | 240.90 | 0.59 | 0.59 | 0.28 | |
| First SDI Production MWD Survey | | | | | | | | | | |
| 1,344.00 | 18.32 | 139.19 | 1,309.39 | -205.12 | 176.55 | 270.58 | 0.32 | 0.22 | -0.75 | |
| 1,438.00 | 16.71 | 138.10 | 1,399.03 | -226.36 | 195.23 | 298.87 | 1.75 | -1.71 | -1.16 | |
| 1,533.00 | 16.93 | 138.06 | 1,489.97 | -246.81 | 213.60 | 326.36 | 0.23 | 0.23 | -0.04 | |
| 1,627.00 | 15.36 | 138.80 | 1,580.26 | -266.36 | 230.94 | 352.49 | 1.68 | -1.67 | 0.79 | |
| 1,722.00 | 14.23 | 137.65 | 1,672.11 | -284.46 | 247.10 | 376.75 | 1.23 | -1.19 | -1.21 | |
| 1,816.00 | 14.20 | 141.53 | 1,763.23 | -302.02 | 262.05 | 399.82 | 1.01 | -0.03 | 4.13 | |
| 1,911.00 | 13.78 | 137.56 | 1,855.41 | -319.50 | 276.94 | 422.76 | 1.10 | -0.44 | -4.18 | |
| 2,005.00 | 13.67 | 142.83 | 1,946.73 | -336.61 | 291.20 | 445.03 | 1.33 | -0.12 | 5.61 | |
| 2,099.00 | 13.37 | 139.82 | 2,038.13 | -353.76 | 304.93 | 466.96 | 0.81 | -0.32 | -3.20 | |
| 2,194.00 | 13.27 | 137.66 | 2,130.57 | -370.22 | 319.36 | 488.84 | 0.53 | -0.11 | -2.27 | |
| 2,288.00 | 13.93 | 142.03 | 2,221.94 | -387.11 | 333.59 | 510.92 | 1.30 | 0.70 | 4.65 | |
| 2,382.00 | 13.77 | 142.03 | 2,313.21 | -404.85 | 347.43 | 533.37 | 0.17 | -0.17 | 0.00 | |
| 2,477.00 | 13.24 | 140.64 | 2,405.58 | -422.17 | 361.29 | 555.52 | 0.65 | -0.56 | -1.46 | |
| 2,571.00 | 13.09 | 139.98 | 2,497.11 | -438.65 | 374.96 | 576.92 | 0.23 | -0.16 | -0.70 | |
| 2,666.00 | 12.69 | 140.51 | 2,589.72 | -454.94 | 388.51 | 598.10 | 0.44 | -0.42 | 0.56 | |
| 2,760.00 | 14.15 | 140.85 | 2,681.15 | -471.82 | 402.33 | 619.89 | 1.56 | 1.55 | 0.36 | |
| 2,854.00 | 14.03 | 141.37 | 2,772.32 | -489.63 | 416.70 | 642.74 | 0.19 | -0.13 | 0.55 | |
| 2,949.00 | 13.89 | 140.35 | 2,864.51 | -507.41 | 431.16 | 665.64 | 0.30 | -0.15 | -1.07 | |
| 3,043.00 | 13.76 | 140.22 | 2,955.79 | -524.68 | 445.52 | 688.08 | 0.14 | -0.14 | -0.14 | |
| 3,137.00 | 13.43 | 139.87 | 3,047.16 | -541.62 | 459.71 | 710.17 | 0.36 | -0.35 | -0.37 | |
| 3,232.00 | 15.36 | 140.64 | 3,139.17 | -559.79 | 474.80 | 733.77 | 2.04 | 2.03 | 0.81 | |
| 3,326.00 | 14.68 | 140.88 | 3,229.96 | -578.65 | 490.21 | 758.10 | 0.73 | -0.72 | 0.26 | |
| 3,421.00 | 13.51 | 139.64 | 3,322.10 | -596.45 | 504.99 | 781.22 | 1.27 | -1.23 | -1.31 | |
| 3,515.00 | 14.62 | 138.16 | 3,413.28 | -613.65 | 520.01 | 804.06 | 1.24 | 1.18 | -1.57 | |
| 3,610.00 | 13.62 | 137.43 | 3,505.40 | -630.82 | 535.58 | 827.23 | 1.07 | -1.05 | -0.77 | |
| 3,704.00 | 15.57 | 137.13 | 3,596.37 | -648.22 | 551.65 | 850.92 | 2.08 | 2.07 | -0.32 | |
| 3,798.00 | 15.14 | 137.22 | 3,687.01 | -666.48 | 568.57 | 875.80 | 0.46 | -0.46 | 0.10 | |
| 3,892.00 | 14.74 | 135.92 | 3,777.83 | -684.08 | 585.23 | 900.03 | 0.56 | -0.43 | -1.38 | |
| 3,987.00 | 14.13 | 135.62 | 3,869.83 | -701.05 | 601.74 | 923.69 | 0.65 | -0.64 | -0.32 | |
| 4,081.00 | 13.49 | 135.51 | 3,961.12 | -717.07 | 617.45 | 946.10 | 0.68 | -0.68 | -0.12 | |
| 4,175.00 | 11.92 | 132.99 | 4,052.81 | -731.51 | 632.24 | 966.72 | 1.77 | -1.67 | -2.68 | |
| 4,269.00 | 11.47 | 131.74 | 4,144.86 | -744.35 | 646.31 | 985.68 | 0.55 | -0.48 | -1.33 | |

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|------------------|---------------------------|-------------------------------------|--|
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| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Site: | RU 22-7 Pad | MD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Well: | RU 323-7 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | 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) | |
| 4,364.00 | 9.67 | 136.10 | 4,238.25 | -756.39 | 658.89 | 1,003.04 | 2.07 | -1.89 | 4.59 | |
| 4,458.00 | 10.40 | 135.04 | 4,330.81 | -768.08 | 670.36 | 1,019.40 | 0.80 | 0.78 | -1.13 | |
| 4,553.00 | 7.81 | 136.77 | 4,424.60 | -778.86 | 680.85 | 1,034.42 | 2.74 | -2.73 | 1.82 | |
| 4,647.00 | 6.49 | 126.29 | 4,517.87 | -786.66 | 689.50 | 1,046.00 | 1.97 | -1.40 | -11.15 | |
| 4,741.00 | 6.37 | 130.56 | 4,611.28 | -793.19 | 697.75 | 1,056.37 | 0.52 | -0.13 | 4.54 | |
| 4,835.00 | 5.65 | 122.89 | 4,704.77 | -799.09 | 705.59 | 1,066.00 | 1.15 | -0.77 | -8.16 | |
| 4,930.00 | 4.22 | 132.22 | 4,799.42 | -803.98 | 712.11 | 1,073.99 | 1.72 | -1.51 | 9.82 | |
| 5,024.00 | 3.99 | 130.71 | 4,893.17 | -808.44 | 717.15 | 1,080.67 | 0.27 | -0.24 | -1.61 | |
| 5,119.00 | 3.59 | 122.80 | 4,987.97 | -812.21 | 722.16 | 1,086.82 | 0.69 | -0.42 | -8.33 | |
| 5,213.00 | 3.33 | 119.80 | 5,081.80 | -815.16 | 727.00 | 1,092.25 | 0.34 | -0.28 | -3.19 | |
| 5,307.00 | 1.95 | 115.04 | 5,175.69 | -817.19 | 730.82 | 1,096.31 | 1.49 | -1.47 | -5.06 | |
| 5,401.00 | 0.49 | 90.10 | 5,269.67 | -817.87 | 732.67 | 1,098.05 | 1.62 | -1.55 | -26.53 | |
| 5,496.00 | 0.25 | 214.99 | 5,364.67 | -818.04 | 732.96 | 1,098.37 | 0.70 | -0.25 | 131.46 | |
| 5,590.00 | 0.34 | 172.67 | 5,458.67 | -818.48 | 732.87 | 1,098.64 | 0.24 | 0.10 | -45.02 | |
| 5,684.00 | 0.71 | 197.61 | 5,552.66 | -819.32 | 732.73 | 1,099.17 | 0.45 | 0.39 | 26.53 | |
| 5,778.00 | 0.37 | 17.86 | 5,646.66 | -819.58 | 732.65 | 1,099.31 | 1.15 | -0.36 | -191.22 | |
| 5,872.00 | 0.31 | 334.65 | 5,740.66 | -819.06 | 732.63 | 1,098.92 | 0.27 | -0.06 | -45.97 | |
| 5,967.00 | 0.30 | 348.05 | 5,835.66 | -818.59 | 732.47 | 1,098.45 | 0.08 | -0.01 | 14.11 | |
| 6,062.00 | 0.09 | 336.21 | 5,930.66 | -818.28 | 732.39 | 1,098.17 | 0.22 | -0.22 | -12.46 | |
| 6,157.00 | 0.65 | 195.77 | 6,025.66 | -818.73 | 732.21 | 1,098.39 | 0.76 | 0.59 | -147.83 | |
| 6,251.00 | 0.33 | 248.02 | 6,119.65 | -819.34 | 731.82 | 1,098.58 | 0.55 | -0.34 | 55.59 | |
| 6,345.00 | 0.94 | 226.65 | 6,213.65 | -819.97 | 731.01 | 1,098.51 | 0.69 | 0.65 | -22.73 | |
| 6,439.00 | 0.38 | 12.32 | 6,307.64 | -820.20 | 730.51 | 1,098.35 | 1.35 | -0.60 | 154.97 | |
| 6,534.00 | 0.34 | 127.48 | 6,402.64 | -820.06 | 730.80 | 1,098.44 | 0.64 | -0.04 | 121.22 | |
| 6,628.00 | 0.37 | 93.57 | 6,496.64 | -820.25 | 731.33 | 1,098.93 | 0.22 | 0.03 | -36.07 | |
| 6,722.00 | 0.31 | 24.98 | 6,590.64 | -820.04 | 731.74 | 1,099.04 | 0.41 | -0.06 | -72.97 | |
| 6,817.00 | 0.67 | 289.82 | 6,685.64 | -819.62 | 731.32 | 1,098.45 | 0.80 | 0.38 | -100.17 | |
| 6,911.00 | 0.51 | 239.94 | 6,779.63 | -819.64 | 730.44 | 1,097.89 | 0.55 | -0.17 | -53.06 | |
| 7,006.00 | 0.63 | 305.71 | 6,874.63 | -819.55 | 729.65 | 1,097.29 | 0.66 | 0.13 | 69.23 | |
| 7,101.00 | 0.30 | 268.45 | 6,969.63 | -819.25 | 728.98 | 1,096.62 | 0.45 | -0.35 | -39.22 | |
| 7,195.00 | 0.42 | 244.25 | 7,063.62 | -819.40 | 728.43 | 1,096.36 | 0.20 | 0.13 | -25.74 | |
| 7,290.00 | 0.50 | 257.68 | 7,158.62 | -819.64 | 727.71 | 1,096.06 | 0.14 | 0.08 | 14.14 | |
| 7,384.00 | 0.88 | 258.61 | 7,252.61 | -819.87 | 726.60 | 1,095.50 | 0.40 | 0.40 | 0.99 | |
| 7,479.00 | 0.18 | 165.92 | 7,347.61 | -820.16 | 725.92 | 1,095.26 | 0.95 | -0.74 | -97.57 | |
| 7,573.00 | 0.20 | 231.56 | 7,441.61 | -820.41 | 725.83 | 1,095.38 | 0.22 | 0.02 | 69.83 | |
| 7,668.00 | 0.07 | 12.07 | 7,536.61 | -820.45 | 725.71 | 1,095.34 | 0.27 | -0.14 | 147.91 | |
| 7,762.00 | 0.79 | 237.43 | 7,630.61 | -820.75 | 725.18 | 1,095.20 | 0.89 | 0.77 | -143.23 | |
| 7,856.00 | 0.68 | 214.12 | 7,724.60 | -821.56 | 724.32 | 1,095.23 | 0.34 | -0.12 | -24.80 | |
| 7,951.00 | 0.77 | 248.22 | 7,819.59 | -822.26 | 723.41 | 1,095.15 | 0.46 | 0.09 | 35.89 | |
| 8,045.00 | 0.47 | 244.83 | 7,913.59 | -822.66 | 722.47 | 1,094.82 | 0.32 | -0.32 | -3.61 | |
| 8,139.00 | 0.75 | 310.85 | 8,007.58 | -822.42 | 721.66 | 1,094.10 | 0.75 | 0.30 | 70.23 | |
| 8,234.00 | 0.90 | 88.60 | 8,102.58 | -822.00 | 721.93 | 1,093.97 | 1.62 | 0.16 | 145.00 | |
| 8,328.00 | 0.79 | 82.47 | 8,196.57 | -821.89 | 723.31 | 1,094.81 | 0.15 | -0.12 | -6.52 | |

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|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well RU 323-7 - Slot RU 323-7 (A4) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Site: | RU 22-7 Pad | MD Reference: | GL 7339' & RKB 24' @ 7363.00usft (H&P 318) |
| Well: | RU 323-7 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | 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) | |
| 8,423.00 | 0.91 | 73.51 | 8,291.56 | -821.59 | 724.69 | 1,095.50 | 0.19 | 0.13 | -9.43 | |
| 8,517.00 | 0.79 | 63.73 | 8,385.55 | -821.09 | 725.98 | 1,095.99 | 0.20 | -0.13 | -10.40 | |
| 8,612.00 | 0.43 | 7.56 | 8,480.54 | -820.45 | 726.62 | 1,095.94 | 0.69 | -0.38 | -59.13 | |
| 8,706.00 | 0.28 | 4.38 | 8,574.54 | -819.87 | 726.68 | 1,095.55 | 0.16 | -0.16 | -3.38 | |
| 8,801.00 | 0.18 | 294.71 | 8,669.54 | -819.58 | 726.56 | 1,095.25 | 0.29 | -0.11 | -73.34 | |
| 8,895.00 | 0.75 | 19.63 | 8,763.54 | -818.94 | 726.64 | 1,094.82 | 0.80 | 0.61 | 90.34 | |
| 8,989.00 | 0.44 | 19.02 | 8,857.53 | -818.02 | 726.96 | 1,094.35 | 0.33 | -0.33 | -0.65 | |
| 9,084.00 | 0.27 | 263.86 | 8,952.53 | -817.70 | 726.86 | 1,094.04 | 0.64 | -0.18 | -121.22 | |
| 9,178.00 | 1.06 | 233.65 | 9,046.52 | -818.23 | 725.94 | 1,093.83 | 0.89 | 0.84 | -32.14 | |
| 9,272.00 | 1.87 | 246.24 | 9,140.49 | -819.37 | 723.83 | 1,093.27 | 0.92 | 0.86 | 13.39 | |
| 9,366.00 | 2.13 | 245.39 | 9,234.44 | -820.71 | 720.84 | 1,092.28 | 0.28 | 0.28 | -0.90 | |
| 9,461.00 | 2.10 | 239.65 | 9,329.37 | -822.33 | 717.73 | 1,091.41 | 0.23 | -0.03 | -6.04 | |
| 9,505.00 | 1.93 | 243.49 | 9,373.34 | -823.07 | 716.37 | 1,091.06 | 0.49 | -0.39 | 8.73 | |
| Last SDI Production MWD Survey | | | | | | | | | | |
| 9,565.00 | 1.93 | 243.49 | 9,433.31 | -823.97 | 714.57 | 1,090.52 | 0.00 | 0.00 | 0.00 | |
| Projection to TD | | | | | | | | | | |

| Design Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 115.00 | 115.00 | -0.67 | 0.57 | First SDI Gyro MWD Survey | |
| 422.00 | 420.32 | -23.00 | 18.36 | Last SDI Gyro MWD Survey | |
| 491.00 | 488.12 | -33.11 | 26.27 | First SDI Surface MWD Survey | |
| 1,114.00 | 1,090.55 | -151.19 | 130.72 | Last SDI Surface MWD Survey | |
| 1,249.00 | 1,219.15 | -182.52 | 157.28 | First SDI Production MWD Survey | |
| 9,505.00 | 9,373.34 | -823.07 | 716.37 | Last SDI Production MWD Survey | |
| 9,565.00 | 9,433.31 | -823.97 | 714.57 | Projection to TD | |

Checked By: _____ Approved By: _____ Date: _____