



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. | NR 11-3 |
| County & State | Garfield County, CO |
| SDI Job No. | OP.011578 |
| Rig | H&P 318 |

I, Mel Mireles Jr., having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 122 feet to a measured depth of 11,176 feet is true and correct as determined from all available records.

A handwritten signature in black ink, appearing to read 'Mel Mireles Jr.', written over a horizontal line.

Signature

30-Jul-18

Date

Mel Mireles Jr.

Grand Junction Assistant Well Planner
Scientific Drilling - Colorado District

| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well NR 11-3 - Slot NR 11-3 (B3) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 6720' & RKB 24' @ 6744.00usft (H&P 318) |
| Site: | NR 23-3 Pad | MD Reference: | GL 6720' & RKB 24' @ 6744.00usft (H&P 318) |
| Well: | NR 11-3 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | Grand Junction District |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| 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 | | NR 23-3 Pad | | | |
| Site Position: | | Northing: | 1,634,904.55 usft | Latitude: | 39.5525224 |
| From: | Map | Easting: | 2,329,757.66 usft | Longitude: | -107.8772377 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in | Grid Convergence: | -1.50 ° |

| Well | | NR 11-3 - Slot NR 11-3 (B3) | | | | |
|----------------------|-------|-----------------------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,634,952.63 usft | Latitude: | 39.5526527 |
| | +E/-W | 0.00 usft | Easting: | 2,329,734.31 usft | Longitude: | -107.8773249 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 6,720.00 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 7/13/2018 | 9.45 | 65.80 | 51,558 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | OH | | | | |
| 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 | 338.84 | |

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|-----------------------|------------------|--|------------------|--------------------------------|--|
| Survey Program | Date | 7/30/2018 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 122.00 | 399.00 | Survey #1 - Gyro MWD Survey (OH) | Gyro MWD 105 | Gyro MWD Error Model Ver 1.0.5 | |
| 468.00 | 1,070.00 | Survey #2 - Surface MWD Survey (OH) | MWD+HDGM | OWSG MWD + HDGM | |
| 1,179.00 | 11,176.00 | Survey #3 - Production MWD Survey (OH) | MWD+HDGM | OWSG MWD + HDGM | |

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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 | |
| 122.00 | 0.62 | 0.88 | 122.00 | 0.66 | 0.01 | 0.61 | 0.51 | 0.51 | 0.00 | |
| First SDI Gyro MWD Survey | | | | | | | | | | |
| 214.00 | 3.61 | 22.85 | 213.93 | 3.83 | 1.14 | 3.16 | 3.31 | 3.25 | 23.88 | |
| 307.00 | 4.49 | 19.25 | 306.69 | 9.96 | 3.48 | 8.03 | 0.98 | 0.95 | -3.87 | |
| 399.00 | 6.16 | 359.47 | 398.30 | 18.30 | 4.62 | 15.40 | 2.67 | 1.82 | -21.50 | |
| Lat SDI Gyro MWD Survey | | | | | | | | | | |
| 468.00 | 8.11 | 345.81 | 466.77 | 26.72 | 3.39 | 23.69 | 3.73 | 2.83 | -19.80 | |

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| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 6720' & RKB 24' @ 6744.00usft (H&P 318) |
| Site: | NR 23-3 Pad | MD Reference: | GL 6720' & RKB 24' @ 6744.00usft (H&P 318) |
| Well: | NR 11-3 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | 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) |
| First SDI Surface MWD Survey | | | | | | | | | |
| 559.00 | 10.75 | 336.28 | 556.53 | 40.72 | -1.59 | 38.55 | 3.36 | 2.90 | -10.47 |
| 654.00 | 13.40 | 334.97 | 649.42 | 58.81 | -9.82 | 58.38 | 2.80 | 2.79 | -1.38 |
| 748.00 | 16.62 | 335.70 | 740.21 | 80.93 | -19.96 | 82.68 | 3.43 | 3.43 | 0.78 |
| 842.00 | 19.58 | 339.26 | 829.55 | 107.92 | -31.07 | 111.86 | 3.36 | 3.15 | 3.79 |
| 937.00 | 22.68 | 340.63 | 918.15 | 140.10 | -42.79 | 146.09 | 3.30 | 3.26 | 1.44 |
| 1,029.00 | 26.55 | 340.22 | 1,001.77 | 176.19 | -55.63 | 184.39 | 4.21 | 4.21 | -0.45 |
| 1,070.00 | 27.26 | 340.36 | 1,038.33 | 193.66 | -61.89 | 202.94 | 1.74 | 1.73 | 0.34 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 1,179.00 | 29.53 | 339.78 | 1,134.22 | 242.38 | -79.57 | 254.76 | 2.10 | 2.08 | -0.53 |
| First SDI Production MWD Survey | | | | | | | | | |
| 1,274.00 | 31.56 | 338.06 | 1,216.03 | 287.41 | -96.95 | 303.03 | 2.33 | 2.14 | -1.81 |
| 1,368.00 | 34.24 | 336.84 | 1,294.95 | 334.56 | -116.55 | 354.07 | 2.94 | 2.85 | -1.30 |
| 1,462.00 | 34.15 | 333.37 | 1,372.70 | 382.46 | -138.77 | 406.77 | 2.08 | -0.10 | -3.69 |
| 1,557.00 | 34.41 | 331.90 | 1,451.20 | 429.97 | -163.37 | 459.96 | 0.91 | 0.27 | -1.55 |
| 1,651.00 | 34.01 | 333.56 | 1,528.94 | 476.94 | -187.59 | 512.50 | 1.08 | -0.43 | 1.77 |
| 1,746.00 | 33.96 | 331.12 | 1,607.72 | 523.97 | -212.23 | 565.25 | 1.44 | -0.05 | -2.57 |
| 1,840.00 | 33.17 | 334.83 | 1,686.05 | 570.24 | -235.85 | 616.93 | 2.34 | -0.84 | 3.95 |
| 1,935.00 | 33.09 | 336.73 | 1,765.61 | 617.58 | -257.15 | 668.77 | 1.10 | -0.08 | 2.00 |
| 2,029.00 | 32.51 | 334.39 | 1,844.63 | 663.94 | -278.21 | 719.60 | 1.48 | -0.62 | -2.49 |
| 2,124.00 | 31.55 | 338.38 | 1,925.17 | 710.07 | -298.40 | 769.91 | 2.45 | -1.01 | 4.20 |
| 2,219.00 | 31.32 | 340.97 | 2,006.23 | 756.52 | -315.61 | 819.44 | 1.44 | -0.24 | 2.73 |
| 2,313.00 | 31.74 | 343.17 | 2,086.36 | 803.28 | -330.74 | 868.51 | 1.30 | 0.45 | 2.34 |
| 2,407.00 | 33.35 | 343.93 | 2,165.60 | 851.78 | -345.05 | 918.91 | 1.77 | 1.71 | 0.81 |
| 2,502.00 | 33.73 | 342.89 | 2,244.78 | 902.08 | -360.04 | 971.23 | 0.73 | 0.40 | -1.09 |
| 2,597.00 | 34.19 | 342.18 | 2,323.57 | 952.70 | -375.97 | 1,024.18 | 0.64 | 0.48 | -0.75 |
| 2,691.00 | 33.54 | 341.85 | 2,401.63 | 1,002.53 | -392.14 | 1,076.48 | 0.72 | -0.69 | -0.35 |
| 2,786.00 | 34.39 | 340.93 | 2,480.42 | 1,052.82 | -409.08 | 1,129.50 | 1.05 | 0.89 | -0.97 |
| 2,881.00 | 34.82 | 340.08 | 2,558.61 | 1,103.68 | -427.09 | 1,183.43 | 0.68 | 0.45 | -0.89 |
| 2,975.00 | 33.51 | 339.13 | 2,636.39 | 1,153.16 | -445.48 | 1,236.21 | 1.50 | -1.39 | -1.01 |
| 3,070.00 | 33.77 | 339.35 | 2,715.48 | 1,202.37 | -464.13 | 1,288.84 | 0.30 | 0.27 | 0.23 |
| 3,164.00 | 33.96 | 337.98 | 2,793.53 | 1,251.16 | -483.19 | 1,341.22 | 0.84 | 0.20 | -1.46 |
| 3,259.00 | 34.56 | 338.87 | 2,872.05 | 1,300.89 | -502.85 | 1,394.69 | 0.82 | 0.63 | 0.94 |
| 3,353.00 | 33.30 | 337.23 | 2,950.04 | 1,349.55 | -522.45 | 1,447.15 | 1.66 | -1.34 | -1.74 |
| 3,448.00 | 33.17 | 340.05 | 3,029.51 | 1,398.03 | -541.41 | 1,499.21 | 1.63 | -0.14 | 2.97 |
| 3,542.00 | 34.57 | 339.56 | 3,107.56 | 1,447.20 | -559.50 | 1,551.58 | 1.52 | 1.49 | -0.52 |
| 3,637.00 | 33.83 | 338.16 | 3,186.13 | 1,497.00 | -578.75 | 1,604.98 | 1.14 | -0.78 | -1.47 |
| 3,731.00 | 34.92 | 338.21 | 3,263.71 | 1,546.27 | -598.47 | 1,658.05 | 1.16 | 1.16 | 0.05 |
| 3,826.00 | 34.06 | 337.24 | 3,342.01 | 1,596.05 | -618.86 | 1,711.83 | 1.07 | -0.91 | -1.02 |
| 3,920.00 | 33.31 | 334.87 | 3,420.23 | 1,643.70 | -640.00 | 1,763.90 | 1.61 | -0.80 | -2.52 |
| 4,015.00 | 34.45 | 336.30 | 3,499.10 | 1,691.92 | -661.88 | 1,816.76 | 1.46 | 1.20 | 1.51 |
| 4,109.00 | 32.40 | 335.25 | 3,577.55 | 1,739.14 | -683.11 | 1,868.47 | 2.27 | -2.18 | -1.12 |
| 4,204.00 | 32.22 | 336.99 | 3,657.85 | 1,785.56 | -703.67 | 1,919.18 | 1.00 | -0.19 | 1.83 |
| 4,298.00 | 32.84 | 338.19 | 3,737.10 | 1,832.29 | -722.94 | 1,969.72 | 0.95 | 0.66 | 1.28 |

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| Site: | NR 23-3 Pad | MD Reference: | GL 6720' & RKB 24' @ 6744.00usft (H&P 318) |
| Well: | NR 11-3 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | 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) | |
| 4,393.00 | 30.88 | 338.18 | 3,817.78 | 1,878.85 | -741.57 | 2,019.85 | 2.06 | -2.06 | -0.01 | |
| 4,488.00 | 31.90 | 337.68 | 3,898.88 | 1,924.70 | -760.16 | 2,069.33 | 1.11 | 1.07 | -0.53 | |
| 4,582.00 | 32.64 | 337.65 | 3,978.36 | 1,971.12 | -779.24 | 2,119.51 | 0.79 | 0.79 | -0.03 | |
| 4,676.00 | 32.96 | 337.52 | 4,057.37 | 2,018.20 | -798.65 | 2,170.41 | 0.35 | 0.34 | -0.14 | |
| 4,771.00 | 31.01 | 336.17 | 4,137.95 | 2,064.46 | -818.42 | 2,220.70 | 2.19 | -2.05 | -1.42 | |
| 4,865.00 | 31.00 | 335.92 | 4,218.52 | 2,108.71 | -838.08 | 2,269.06 | 0.14 | -0.01 | -0.27 | |
| 4,959.00 | 31.95 | 335.55 | 4,298.68 | 2,153.46 | -858.25 | 2,318.07 | 1.03 | 1.01 | -0.39 | |
| 5,054.00 | 31.13 | 336.19 | 4,379.65 | 2,198.81 | -878.57 | 2,367.70 | 0.93 | -0.86 | 0.67 | |
| 5,148.00 | 32.71 | 337.19 | 4,459.43 | 2,244.45 | -898.23 | 2,417.36 | 1.77 | 1.68 | 1.06 | |
| 5,243.00 | 33.79 | 336.85 | 4,538.88 | 2,292.40 | -918.57 | 2,469.42 | 1.15 | 1.14 | -0.36 | |
| 5,337.00 | 33.90 | 339.34 | 4,616.95 | 2,340.97 | -938.09 | 2,521.76 | 1.48 | 0.12 | 2.65 | |
| 5,432.00 | 35.21 | 338.44 | 4,695.19 | 2,391.23 | -957.51 | 2,575.64 | 1.48 | 1.38 | -0.95 | |
| 5,527.00 | 36.40 | 337.40 | 4,772.24 | 2,442.73 | -978.40 | 2,631.21 | 1.41 | 1.25 | -1.09 | |
| 5,621.00 | 35.94 | 335.23 | 4,848.13 | 2,493.53 | -1,000.68 | 2,686.62 | 1.45 | -0.49 | -2.31 | |
| 5,716.00 | 34.57 | 335.77 | 4,925.70 | 2,543.42 | -1,023.42 | 2,741.36 | 1.48 | -1.44 | 0.57 | |
| 5,810.00 | 34.37 | 337.77 | 5,003.20 | 2,592.30 | -1,044.41 | 2,794.53 | 1.22 | -0.21 | 2.13 | |
| 5,905.00 | 34.60 | 337.43 | 5,081.50 | 2,642.03 | -1,064.90 | 2,848.30 | 0.32 | 0.24 | -0.36 | |
| 5,999.00 | 34.37 | 337.87 | 5,158.99 | 2,691.26 | -1,085.14 | 2,901.51 | 0.36 | -0.24 | 0.47 | |
| 6,094.00 | 35.31 | 337.17 | 5,236.96 | 2,741.40 | -1,105.90 | 2,955.77 | 1.08 | 0.99 | -0.74 | |
| 6,189.00 | 33.58 | 336.23 | 5,315.30 | 2,790.75 | -1,127.14 | 3,009.46 | 1.91 | -1.82 | -0.99 | |
| 6,284.00 | 33.73 | 337.16 | 5,394.38 | 2,839.11 | -1,147.97 | 3,062.07 | 0.57 | 0.16 | 0.98 | |
| 6,378.00 | 34.25 | 337.44 | 5,472.31 | 2,887.59 | -1,168.25 | 3,114.60 | 0.58 | 0.55 | 0.30 | |
| 6,473.00 | 35.53 | 335.63 | 5,550.24 | 2,937.42 | -1,189.90 | 3,168.89 | 1.73 | 1.35 | -1.91 | |
| 6,567.00 | 34.34 | 336.11 | 5,627.30 | 2,986.54 | -1,211.90 | 3,222.65 | 1.30 | -1.27 | 0.51 | |
| 6,662.00 | 33.62 | 338.16 | 5,706.08 | 3,035.46 | -1,232.54 | 3,275.71 | 1.42 | -0.76 | 2.16 | |
| 6,757.00 | 34.12 | 338.99 | 5,784.96 | 3,084.74 | -1,251.88 | 3,328.65 | 0.72 | 0.53 | 0.87 | |
| 6,852.00 | 33.70 | 336.63 | 5,863.80 | 3,133.81 | -1,271.88 | 3,381.64 | 1.45 | -0.44 | -2.48 | |
| 6,946.00 | 31.34 | 336.27 | 5,943.06 | 3,180.13 | -1,292.07 | 3,432.12 | 2.52 | -2.51 | -0.38 | |
| 7,041.00 | 28.50 | 335.26 | 6,025.39 | 3,223.34 | -1,311.50 | 3,479.43 | 3.04 | -2.99 | -1.06 | |
| 7,135.00 | 29.02 | 335.48 | 6,107.79 | 3,264.46 | -1,330.35 | 3,524.58 | 0.56 | 0.55 | 0.23 | |
| 7,230.00 | 25.53 | 334.97 | 6,192.22 | 3,303.98 | -1,348.58 | 3,568.02 | 3.68 | -3.67 | -0.54 | |
| 7,325.00 | 26.73 | 335.79 | 6,277.51 | 3,342.02 | -1,366.00 | 3,609.78 | 1.32 | 1.26 | 0.86 | |
| 7,419.00 | 23.57 | 335.26 | 6,362.59 | 3,378.38 | -1,382.54 | 3,649.66 | 3.37 | -3.36 | -0.56 | |
| 7,514.00 | 23.65 | 336.58 | 6,449.63 | 3,413.11 | -1,398.06 | 3,687.66 | 0.56 | 0.08 | 1.39 | |
| 7,608.00 | 23.43 | 336.32 | 6,535.81 | 3,447.53 | -1,413.06 | 3,725.17 | 0.26 | -0.23 | -0.28 | |
| 7,702.00 | 20.98 | 335.56 | 6,622.83 | 3,479.97 | -1,427.53 | 3,760.64 | 2.62 | -2.61 | -0.81 | |
| 7,796.00 | 20.58 | 334.62 | 6,710.72 | 3,510.22 | -1,441.58 | 3,793.92 | 0.55 | -0.43 | -1.00 | |
| 7,891.00 | 17.97 | 336.63 | 6,800.39 | 3,538.76 | -1,454.55 | 3,825.22 | 2.83 | -2.75 | 2.12 | |
| 7,985.00 | 13.80 | 341.11 | 6,890.78 | 3,562.69 | -1,463.94 | 3,850.92 | 4.62 | -4.44 | 4.77 | |
| 8,080.00 | 10.55 | 342.86 | 6,983.63 | 3,581.73 | -1,470.17 | 3,870.93 | 3.44 | -3.42 | 1.84 | |
| 8,175.00 | 8.87 | 341.48 | 7,077.27 | 3,596.98 | -1,475.06 | 3,886.92 | 1.79 | -1.77 | -1.45 | |
| 8,269.00 | 7.07 | 337.15 | 7,170.36 | 3,609.19 | -1,479.61 | 3,899.94 | 2.02 | -1.91 | -4.61 | |
| 8,363.00 | 5.52 | 337.22 | 7,263.79 | 3,618.69 | -1,483.60 | 3,910.25 | 1.65 | -1.65 | 0.07 | |

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| Well: | NR 11-3 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
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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) | |
| 8,458.00 | 3.96 | 324.01 | 7,358.46 | 3,625.55 | -1,487.30 | 3,917.98 | 1.99 | -1.64 | -13.91 | |
| 8,552.00 | 3.19 | 306.10 | 7,452.28 | 3,629.72 | -1,491.32 | 3,923.32 | 1.43 | -0.82 | -19.05 | |
| 8,594.62 | 2.93 | 301.00 | 7,494.84 | 3,630.98 | -1,493.21 | 3,925.18 | 0.88 | -0.61 | -11.97 | |
| NR 11-3 BTV | | | | | | | | | | |
| 8,647.00 | 2.65 | 293.44 | 7,547.16 | 3,632.15 | -1,495.47 | 3,927.09 | 0.88 | -0.54 | -14.43 | |
| 8,740.00 | 3.10 | 273.72 | 7,640.04 | 3,633.17 | -1,499.95 | 3,929.66 | 1.16 | 0.48 | -21.20 | |
| 8,835.00 | 3.66 | 262.39 | 7,734.88 | 3,632.94 | -1,505.52 | 3,931.45 | 0.91 | 0.59 | -11.93 | |
| 8,931.00 | 2.03 | 263.53 | 7,830.76 | 3,632.34 | -1,510.25 | 3,932.60 | 1.70 | -1.70 | 1.19 | |
| 9,025.00 | 0.48 | 18.73 | 7,924.74 | 3,632.52 | -1,511.78 | 3,933.32 | 2.42 | -1.65 | 122.55 | |
| 9,120.00 | 0.31 | 341.46 | 8,019.74 | 3,633.14 | -1,511.73 | 3,933.88 | 0.32 | -0.18 | -39.23 | |
| 9,214.00 | 0.09 | 209.84 | 8,113.74 | 3,633.32 | -1,511.85 | 3,934.09 | 0.40 | -0.23 | -140.02 | |
| 9,308.00 | 0.44 | 249.44 | 8,207.74 | 3,633.13 | -1,512.23 | 3,934.05 | 0.40 | 0.37 | 42.13 | |
| 9,402.00 | 0.30 | 78.65 | 8,301.73 | 3,633.05 | -1,512.32 | 3,934.01 | 0.78 | -0.15 | -181.69 | |
| 9,500.00 | 1.07 | 79.22 | 8,399.73 | 3,633.27 | -1,511.17 | 3,933.80 | 0.79 | 0.79 | 0.58 | |
| 9,591.00 | 0.72 | 156.03 | 8,490.72 | 3,632.91 | -1,510.10 | 3,933.08 | 1.26 | -0.38 | 84.41 | |
| 9,686.00 | 1.55 | 170.65 | 8,585.70 | 3,631.10 | -1,509.65 | 3,931.22 | 0.92 | 0.87 | 15.39 | |
| 9,780.00 | 0.97 | 127.31 | 8,679.68 | 3,629.36 | -1,508.81 | 3,929.30 | 1.14 | -0.62 | -46.11 | |
| 9,874.00 | 1.43 | 77.35 | 8,773.66 | 3,629.13 | -1,507.04 | 3,928.45 | 1.17 | 0.49 | -53.15 | |
| 9,968.00 | 2.09 | 82.76 | 8,867.61 | 3,629.61 | -1,504.19 | 3,927.86 | 0.72 | 0.70 | 5.76 | |
| 10,063.00 | 1.60 | 97.77 | 8,962.57 | 3,629.65 | -1,501.16 | 3,926.80 | 0.72 | -0.52 | 15.80 | |
| 10,158.00 | 1.67 | 148.59 | 9,057.53 | 3,628.29 | -1,499.12 | 3,924.80 | 1.48 | 0.07 | 53.49 | |
| 10,252.00 | 2.17 | 165.87 | 9,151.48 | 3,625.39 | -1,497.97 | 3,921.69 | 0.81 | 0.53 | 18.38 | |
| 10,346.00 | 2.49 | 170.89 | 9,245.40 | 3,621.65 | -1,497.22 | 3,917.92 | 0.40 | 0.34 | 5.34 | |
| 10,441.00 | 2.73 | 174.95 | 9,340.30 | 3,617.36 | -1,496.69 | 3,913.73 | 0.32 | 0.25 | 4.27 | |
| 10,535.00 | 2.64 | 189.89 | 9,434.20 | 3,613.00 | -1,496.87 | 3,909.73 | 0.75 | -0.10 | 15.89 | |
| 10,630.00 | 1.85 | 206.85 | 9,529.13 | 3,609.47 | -1,497.93 | 3,906.83 | 1.08 | -0.83 | 17.85 | |
| 10,724.00 | 1.23 | 212.83 | 9,623.09 | 3,607.27 | -1,499.17 | 3,905.22 | 0.68 | -0.66 | 6.36 | |
| 10,818.00 | 0.79 | 187.43 | 9,717.08 | 3,605.78 | -1,499.80 | 3,904.06 | 0.66 | -0.47 | -27.02 | |
| 10,912.00 | 1.23 | 181.54 | 9,811.06 | 3,604.13 | -1,499.91 | 3,902.56 | 0.48 | 0.47 | -6.27 | |
| 11,006.00 | 1.48 | 159.35 | 9,905.04 | 3,601.98 | -1,499.51 | 3,900.41 | 0.61 | 0.27 | -23.61 | |
| 11,101.00 | 1.41 | 142.25 | 10,000.01 | 3,599.91 | -1,498.36 | 3,898.06 | 0.46 | -0.07 | -18.00 | |
| 11,116.00 | 1.67 | 150.16 | 10,015.00 | 3,599.58 | -1,498.14 | 3,897.67 | 2.24 | 1.73 | 52.73 | |
| Last SDI Production MWD Survey | | | | | | | | | | |
| 11,176.00 | 1.67 | 150.16 | 10,074.98 | 3,598.06 | -1,497.27 | 3,895.94 | 0.00 | 0.00 | 0.00 | |
| Projection to TD - NR 11-3 PBHL | | | | | | | | | | |

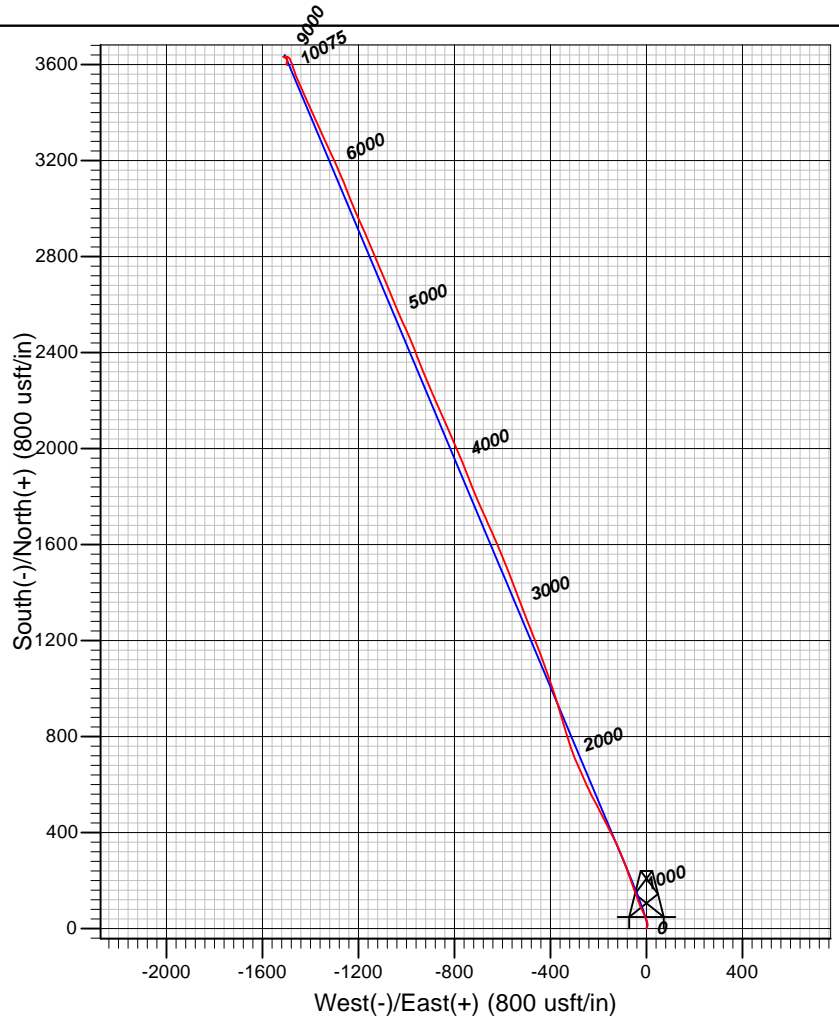
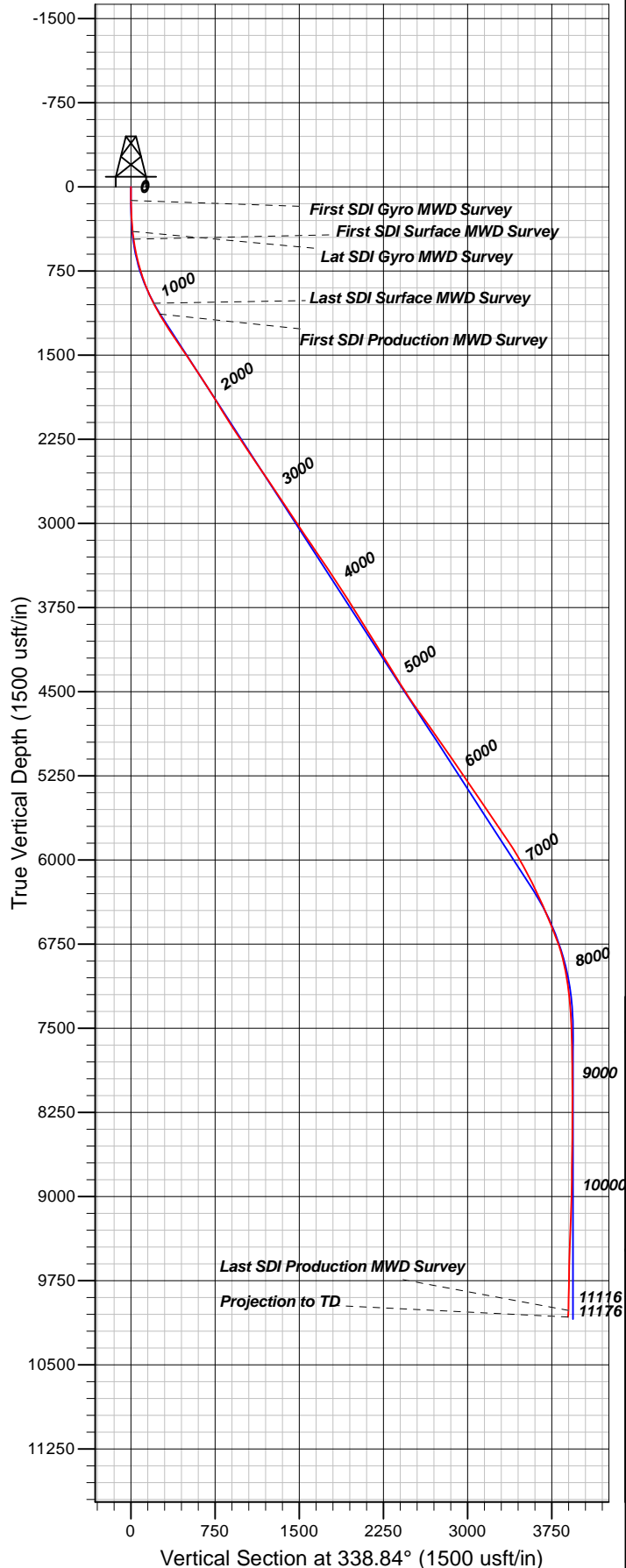


Scientific Drilling, Intl
Survey Report

| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well NR 11-3 - Slot NR 11-3 (B3) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 6720' & RKB 24' @ 6744.00usft (H&P 318) |
| Site: | NR 23-3 Pad | MD Reference: | GL 6720' & RKB 24' @ 6744.00usft (H&P 318) |
| Well: | NR 11-3 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | Grand Junction District |

| Design Annotations | | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 122.00 | 122.00 | 0.66 | 0.01 | First SDI Gyro MWD Survey | |
| 399.00 | 398.30 | 18.30 | 4.62 | Lat SDI Gyro MWD Survey | |
| 468.00 | 466.77 | 26.72 | 3.39 | First SDI Surface MWD Survey | |
| 1,070.00 | 1,038.33 | 193.66 | -61.89 | Last SDI Surface MWD Survey | |
| 1,179.00 | 1,134.22 | 242.38 | -79.57 | First SDI Production MWD Survey | |
| 11,116.00 | 10,015.00 | 3,599.58 | -1,498.14 | Last SDI Production MWD Survey | |
| 11,176.00 | 10,074.98 | 3,598.06 | -1,497.27 | Projection to TD | |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|



Well Details: NR 11-3

TVD Reference: GL 6720' & RKB 24' @ 6744.00usft (H&P 318) Level: 6720.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1634952.63 2329734.31 39.5526526 -107.8773249 NR 11-3 (B3)

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well NR 11-3 - Slot NR 11-3 (B3), True North
 Vertical (TVD) Reference: GL 6720' & RKB 24' @ 6744.00usft (H&P 318)
 Section (VS) Reference: Slot - NR 11-3 (B3)(0.00N, 0.00E)
 Measured Depth Reference: GL 6720' & RKB 24' @ 6744.00usft (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: OH

18:03, July 30 2018
 Created By: Mel Mireles Jr.