



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. | SR 24-12 |
| County & State | Garfield County, CO |
| SDI Job No. | OP.007728 |
| 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 91 feet to a measured depth of 9,542 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

23-Feb-18

Date

Mel Mireles Jr.

Grand Junction Assistant Well Planner
Scientific Drilling - Colorado District

| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well SR 24-12 - Slot SR 24-12 (A11) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 7478' & RKB 24' @ 7502.00usft (H&P 318) |
| Site: | SR 23-12 Pad | MD Reference: | GL 7478' & RKB 24' @ 7502.00usft (H&P 318) |
| Well: | SR 24-12 | 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 | | SR 23-12 Pad | | | |
| Site Position: | | Northing: | 1,597,713.40 usft | Latitude: | 39.4511965 |
| From: | Map | Easting: | 2,340,229.70 usft | Longitude: | -107.8367194 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in | Grid Convergence: | -1.47 ° |

| Well | | SR 24-12 - Slot SR 24-12 (A11) | | | | |
|----------------------|-------|--------------------------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,597,643.50 usft | Latitude: | 39.4510066 |
| | +E/-W | 0.00 usft | Easting: | 2,340,256.80 usft | Longitude: | -107.8366171 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 7,478.00 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 1/30/2018 | 9.22 | 65.62 | 51,621 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| 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 | 220.63 | |

| | | | | | |
|-----------------------|------------------|--|------------------|------------------------------------|--|
| Survey Program | Date | 2/23/2018 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 91.00 | 489.00 | Survey #1 - Gyro MWD Survey (OH) | SDI Gyro MWD 104 | SDI Gyro MWD Error Model Ver 1.0.4 | |
| 566.00 | 1,062.00 | Survey #2 - Surface MWD Survey (OH) | SDI MWD | SDI MWD - Standard ver 1.0.1 | |
| 1,180.00 | 9,542.00 | Survey #3 - Production MWD Survey (OH) | 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 | |
| 91.00 | 0.53 | 125.86 | 91.00 | -0.25 | 0.34 | -0.04 | 0.58 | 0.58 | 0.00 | |
| First SDI Gyro MWD Survey | | | | | | | | | | |
| 122.00 | 0.44 | 105.29 | 122.00 | -0.36 | 0.57 | -0.10 | 0.63 | -0.29 | -66.35 | |
| 214.00 | 1.58 | 221.13 | 213.99 | -1.41 | 0.08 | 1.02 | 1.97 | 1.24 | 125.91 | |
| 305.00 | 2.82 | 229.39 | 304.92 | -3.81 | -2.45 | 4.49 | 1.40 | 1.36 | 9.08 | |
| 398.00 | 4.75 | 233.61 | 397.71 | -7.59 | -7.28 | 10.50 | 2.10 | 2.08 | 4.54 | |
| 489.00 | 7.13 | 225.88 | 488.22 | -13.75 | -14.37 | 19.80 | 2.75 | 2.62 | -8.49 | |

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|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well SR 24-12 - Slot SR 24-12 (A11) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 7478' & RKB 24' @ 7502.00usft (H&P 318) |
| Site: | SR 23-12 Pad | MD Reference: | GL 7478' & RKB 24' @ 7502.00usft (H&P 318) |
| Well: | SR 24-12 | 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) |
| Last SDI Gyro MWD Survey | | | | | | | | | |
| 566.00 | 7.27 | 225.82 | 564.61 | -20.48 | -21.30 | 29.41 | 0.18 | 0.18 | -0.08 |
| First SDI Surface MWD Survey | | | | | | | | | |
| 685.00 | 7.57 | 226.93 | 682.61 | -31.08 | -32.42 | 44.70 | 0.28 | 0.25 | 0.93 |
| 753.00 | 7.69 | 224.73 | 750.01 | -37.37 | -38.90 | 53.69 | 0.46 | 0.18 | -3.24 |
| 847.00 | 8.31 | 227.16 | 843.10 | -46.45 | -48.30 | 66.71 | 0.75 | 0.66 | 2.59 |
| 941.00 | 8.62 | 227.19 | 936.07 | -55.86 | -58.45 | 80.46 | 0.33 | 0.33 | 0.03 |
| 1,036.00 | 8.88 | 223.23 | 1,029.97 | -66.04 | -68.70 | 94.85 | 0.69 | 0.27 | -4.17 |
| 1,062.00 | 9.06 | 223.94 | 1,055.65 | -68.98 | -71.49 | 98.90 | 0.81 | 0.69 | 2.73 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 1,180.00 | 9.87 | 223.88 | 1,172.04 | -82.96 | -84.95 | 118.28 | 0.69 | 0.69 | -0.05 |
| First SDI Production MWD Survey | | | | | | | | | |
| 1,275.00 | 9.69 | 225.27 | 1,265.66 | -94.45 | -96.27 | 134.37 | 0.31 | -0.19 | 1.46 |
| 1,369.00 | 9.25 | 224.89 | 1,358.38 | -105.37 | -107.22 | 149.79 | 0.47 | -0.47 | -0.40 |
| 1,464.00 | 8.49 | 224.07 | 1,452.24 | -115.82 | -117.49 | 164.41 | 0.81 | -0.80 | -0.86 |
| 1,558.00 | 8.27 | 221.36 | 1,545.24 | -125.88 | -126.78 | 178.09 | 0.48 | -0.23 | -2.88 |
| 1,653.00 | 7.81 | 219.30 | 1,639.31 | -136.00 | -135.39 | 191.38 | 0.57 | -0.48 | -2.17 |
| 1,747.00 | 7.75 | 220.94 | 1,732.44 | -145.73 | -143.59 | 204.10 | 0.24 | -0.06 | 1.74 |
| 1,842.00 | 9.55 | 222.83 | 1,826.36 | -156.35 | -153.14 | 218.38 | 1.92 | 1.89 | 1.99 |
| 1,936.00 | 9.32 | 224.40 | 1,919.09 | -167.51 | -163.77 | 233.77 | 0.37 | -0.24 | 1.67 |
| 2,030.00 | 8.84 | 221.41 | 2,011.91 | -178.36 | -173.87 | 248.59 | 0.72 | -0.51 | -3.18 |
| 2,125.00 | 8.81 | 223.63 | 2,105.78 | -189.11 | -183.72 | 263.15 | 0.36 | -0.03 | 2.34 |
| 2,219.00 | 7.96 | 224.10 | 2,198.78 | -198.99 | -193.22 | 276.84 | 0.91 | -0.90 | 0.50 |
| 2,314.00 | 7.41 | 225.98 | 2,292.92 | -207.97 | -202.20 | 289.50 | 0.64 | -0.58 | 1.98 |
| 2,408.00 | 7.25 | 222.36 | 2,386.16 | -216.57 | -210.55 | 301.47 | 0.52 | -0.17 | -3.85 |
| 2,503.00 | 6.93 | 226.07 | 2,480.43 | -224.97 | -218.72 | 313.16 | 0.59 | -0.34 | 3.91 |
| 2,597.00 | 8.30 | 224.44 | 2,573.60 | -233.75 | -227.56 | 325.58 | 1.48 | 1.46 | -1.73 |
| 2,692.00 | 8.27 | 223.76 | 2,667.61 | -243.58 | -237.08 | 339.24 | 0.11 | -0.03 | -0.72 |
| 2,786.00 | 7.69 | 220.90 | 2,760.70 | -253.22 | -245.88 | 352.28 | 0.75 | -0.62 | -3.04 |
| 2,880.00 | 9.77 | 221.63 | 2,853.60 | -263.93 | -255.29 | 366.55 | 2.22 | 2.21 | 0.78 |
| 2,975.00 | 9.50 | 218.93 | 2,947.26 | -276.06 | -265.57 | 382.44 | 0.55 | -0.28 | -2.84 |
| 3,069.00 | 9.76 | 219.63 | 3,039.94 | -288.23 | -275.53 | 398.16 | 0.30 | 0.28 | 0.74 |
| 3,164.00 | 9.24 | 219.69 | 3,133.64 | -300.30 | -285.54 | 413.84 | 0.55 | -0.55 | 0.06 |
| 3,258.00 | 9.06 | 223.35 | 3,226.44 | -311.49 | -295.44 | 428.78 | 0.65 | -0.19 | 3.89 |
| 3,353.00 | 8.82 | 221.42 | 3,320.29 | -322.39 | -305.39 | 443.53 | 0.40 | -0.25 | -2.03 |
| 3,447.00 | 8.09 | 219.37 | 3,413.26 | -332.91 | -314.35 | 457.35 | 0.84 | -0.78 | -2.18 |
| 3,542.00 | 9.57 | 213.80 | 3,507.14 | -344.64 | -322.99 | 471.88 | 1.80 | 1.56 | -5.86 |
| 3,636.00 | 9.39 | 214.41 | 3,599.85 | -357.46 | -331.67 | 487.26 | 0.22 | -0.19 | 0.65 |
| 3,730.00 | 9.13 | 215.26 | 3,692.63 | -369.87 | -340.31 | 502.31 | 0.31 | -0.28 | 0.90 |
| 3,825.00 | 8.60 | 216.93 | 3,786.49 | -381.70 | -348.93 | 516.90 | 0.62 | -0.56 | 1.76 |
| 3,919.00 | 8.79 | 215.77 | 3,879.41 | -393.15 | -357.35 | 531.07 | 0.28 | 0.20 | -1.23 |
| 4,014.00 | 8.38 | 216.34 | 3,973.35 | -404.62 | -365.69 | 545.20 | 0.44 | -0.43 | 0.60 |
| 4,109.00 | 7.91 | 214.80 | 4,067.39 | -415.56 | -373.52 | 558.61 | 0.55 | -0.49 | -1.62 |
| 4,204.00 | 6.99 | 215.12 | 4,161.59 | -425.66 | -380.58 | 570.87 | 0.97 | -0.97 | 0.34 |

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| Site: | SR 23-12 Pad | MD Reference: | GL 7478' & RKB 24' @ 7502.00usft (H&P 318) |
| Well: | SR 24-12 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | Grand Junction District |

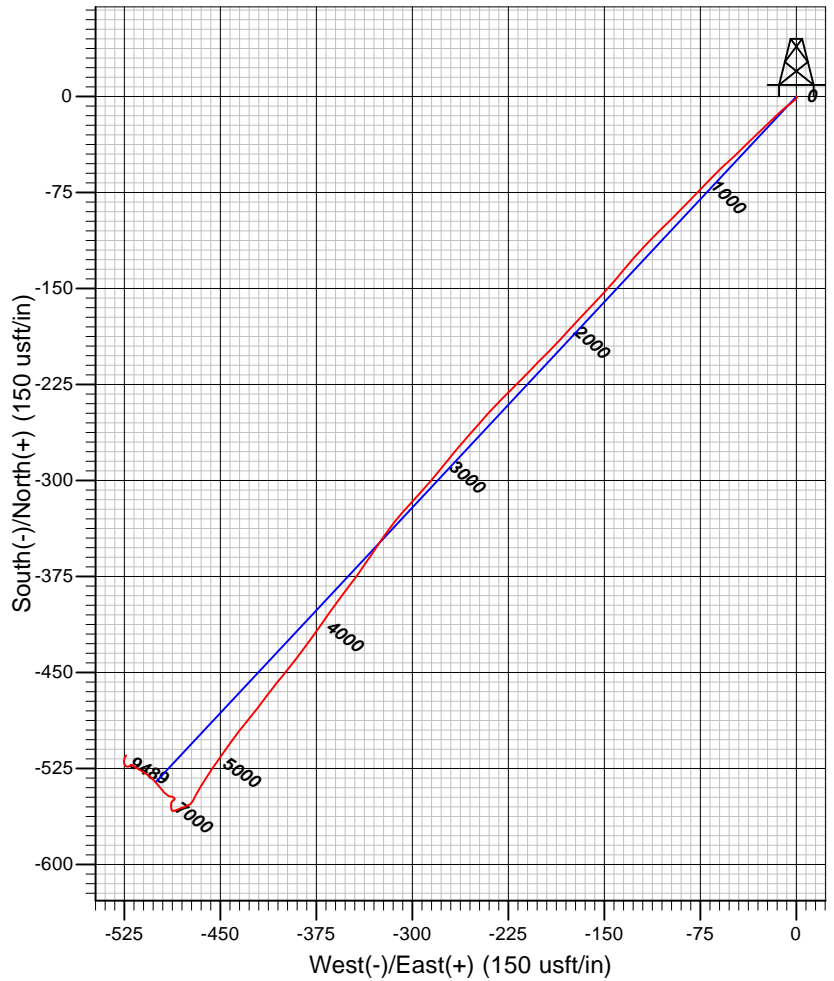
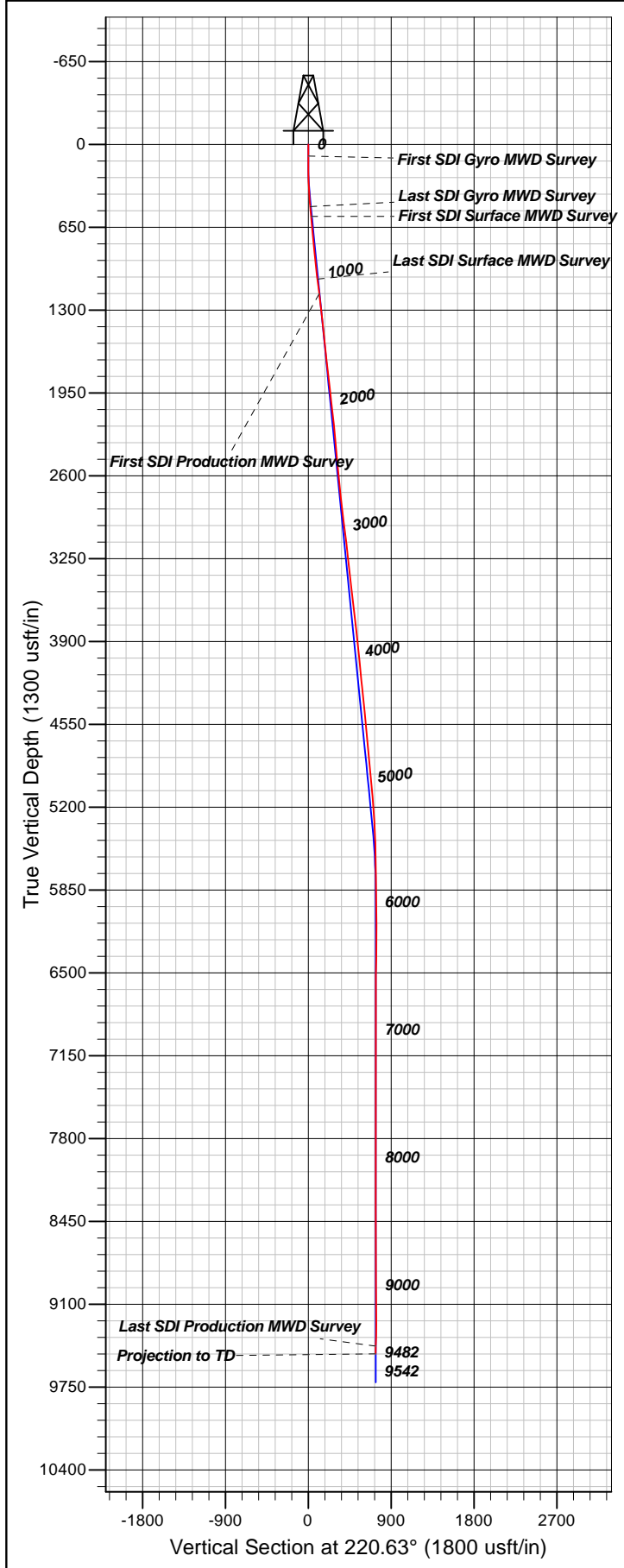
| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 4,299.00 | 8.91 | 218.06 | 4,255.67 | -436.18 | -388.44 | 583.97 | 2.07 | 2.02 | 3.09 | |
| 4,394.00 | 8.31 | 218.31 | 4,349.60 | -447.36 | -397.23 | 598.18 | 0.63 | -0.63 | 0.26 | |
| 4,489.00 | 7.72 | 218.85 | 4,443.67 | -457.71 | -405.49 | 611.42 | 0.63 | -0.62 | 0.57 | |
| 4,584.00 | 7.65 | 217.00 | 4,537.82 | -467.73 | -413.30 | 624.11 | 0.27 | -0.07 | -1.95 | |
| 4,678.00 | 7.39 | 217.26 | 4,631.01 | -477.54 | -420.73 | 636.39 | 0.28 | -0.28 | 0.28 | |
| 4,773.00 | 6.74 | 221.57 | 4,725.29 | -486.58 | -428.12 | 648.06 | 0.88 | -0.68 | 4.54 | |
| 4,867.00 | 7.39 | 215.41 | 4,818.58 | -495.63 | -435.29 | 659.60 | 1.06 | 0.69 | -6.55 | |
| 4,961.00 | 7.65 | 217.26 | 4,911.77 | -505.54 | -442.58 | 671.86 | 0.38 | 0.28 | 1.97 | |
| 5,056.00 | 7.13 | 213.22 | 5,005.98 | -515.50 | -449.64 | 684.02 | 0.77 | -0.55 | -4.25 | |
| 5,150.00 | 6.90 | 215.15 | 5,099.27 | -525.00 | -456.08 | 695.43 | 0.35 | -0.24 | 2.05 | |
| 5,244.00 | 6.21 | 212.57 | 5,192.66 | -533.90 | -462.07 | 706.08 | 0.80 | -0.73 | -2.74 | |
| 5,338.00 | 5.63 | 210.67 | 5,286.16 | -542.15 | -467.16 | 715.66 | 0.65 | -0.62 | -2.02 | |
| 5,433.00 | 3.52 | 205.41 | 5,380.85 | -548.80 | -470.79 | 723.06 | 2.26 | -2.22 | -5.54 | |
| 5,527.00 | 1.69 | 228.44 | 5,474.75 | -552.32 | -473.07 | 727.22 | 2.21 | -1.95 | 24.50 | |
| 5,622.00 | 1.76 | 240.55 | 5,569.71 | -553.97 | -475.38 | 729.98 | 0.39 | 0.07 | 12.75 | |
| 5,716.00 | 1.80 | 256.15 | 5,663.66 | -555.03 | -478.08 | 732.54 | 0.52 | 0.04 | 16.60 | |
| 5,811.00 | 1.76 | 245.56 | 5,758.62 | -555.99 | -480.85 | 735.08 | 0.35 | -0.04 | -11.15 | |
| 5,905.00 | 1.14 | 249.25 | 5,852.59 | -556.92 | -483.04 | 737.21 | 0.67 | -0.66 | 3.93 | |
| 5,918.58 | 1.13 | 249.19 | 5,866.16 | -557.02 | -483.29 | 737.44 | 0.08 | -0.08 | -0.44 | |
| SR 24-12 BTV | | | | | | | | | | |
| 6,000.00 | 1.06 | 248.81 | 5,947.57 | -557.58 | -484.74 | 738.81 | 0.08 | -0.08 | -0.47 | |
| 6,094.00 | 1.40 | 248.52 | 6,041.55 | -558.31 | -486.62 | 740.59 | 0.36 | 0.36 | -0.31 | |
| 6,189.00 | 1.11 | 335.27 | 6,136.53 | -557.90 | -488.09 | 741.24 | 1.83 | -0.31 | 91.32 | |
| 6,283.00 | 1.67 | 357.27 | 6,230.51 | -555.70 | -488.53 | 739.86 | 0.81 | 0.60 | 23.40 | |
| 6,378.00 | 1.41 | 4.30 | 6,325.47 | -553.16 | -488.51 | 737.91 | 0.34 | -0.27 | 7.40 | |
| 6,472.00 | 0.62 | 32.25 | 6,419.46 | -551.57 | -488.15 | 736.48 | 0.97 | -0.84 | 29.73 | |
| 6,567.00 | 0.26 | 10.98 | 6,514.45 | -550.93 | -487.84 | 735.78 | 0.41 | -0.38 | -22.39 | |
| 6,662.00 | 0.36 | 38.90 | 6,609.45 | -550.48 | -487.61 | 735.30 | 0.19 | 0.11 | 29.39 | |
| 6,756.00 | 0.53 | 54.75 | 6,703.45 | -550.00 | -487.07 | 734.58 | 0.22 | 0.18 | 16.86 | |
| 6,851.00 | 0.21 | 136.81 | 6,798.45 | -549.88 | -486.59 | 734.17 | 0.57 | -0.34 | 86.38 | |
| 6,946.00 | 0.53 | 36.73 | 6,893.45 | -549.65 | -486.21 | 733.75 | 0.64 | 0.34 | -105.35 | |
| 7,041.00 | 0.26 | 42.80 | 6,988.44 | -549.14 | -485.80 | 733.10 | 0.29 | -0.28 | 6.39 | |
| 7,135.00 | 0.28 | 354.57 | 7,082.44 | -548.75 | -485.68 | 732.73 | 0.24 | 0.02 | -51.31 | |
| 7,230.00 | 0.62 | 321.32 | 7,177.44 | -548.12 | -486.02 | 732.47 | 0.44 | 0.36 | -35.00 | |
| 7,325.00 | 0.45 | 305.22 | 7,272.44 | -547.51 | -486.65 | 732.41 | 0.24 | -0.18 | -16.95 | |
| 7,419.00 | 0.97 | 284.50 | 7,366.43 | -547.09 | -487.72 | 732.80 | 0.61 | 0.55 | -22.04 | |
| 7,514.00 | 0.74 | 274.10 | 7,461.42 | -546.85 | -489.11 | 733.51 | 0.29 | -0.24 | -10.95 | |
| 7,609.00 | 0.53 | 290.39 | 7,556.41 | -546.65 | -490.13 | 734.03 | 0.29 | -0.22 | 17.15 | |
| 7,704.00 | 0.35 | 322.64 | 7,651.41 | -546.27 | -490.72 | 734.12 | 0.32 | -0.19 | 33.95 | |
| 7,798.00 | 0.79 | 294.08 | 7,745.40 | -545.78 | -491.49 | 734.25 | 0.54 | 0.47 | -30.38 | |
| 7,893.00 | 0.88 | 317.19 | 7,840.39 | -544.97 | -492.58 | 734.35 | 0.36 | 0.09 | 24.33 | |
| 7,987.00 | 1.08 | 309.71 | 7,934.38 | -543.88 | -493.75 | 734.28 | 0.25 | 0.21 | -7.96 | |
| 8,082.00 | 1.85 | 324.49 | 8,029.35 | -542.06 | -495.33 | 733.93 | 0.90 | 0.81 | 15.56 | |
| 8,177.00 | 1.71 | 319.08 | 8,124.30 | -539.74 | -497.15 | 733.36 | 0.23 | -0.15 | -5.69 | |

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| Site: | SR 23-12 Pad | MD Reference: | GL 7478' & RKB 24' @ 7502.00usft (H&P 318) |
| Well: | SR 24-12 | 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) |
| 8,271.00 | 1.93 | 316.58 | 8,218.26 | -537.53 | -499.16 | 732.99 | 0.25 | 0.23 | -2.66 |
| 8,366.00 | 2.29 | 319.56 | 8,313.19 | -534.92 | -501.49 | 732.53 | 0.40 | 0.38 | 3.14 |
| 8,461.00 | 2.55 | 310.60 | 8,408.11 | -532.10 | -504.32 | 732.23 | 0.48 | 0.27 | -9.43 |
| 8,555.00 | 3.17 | 304.71 | 8,501.99 | -529.26 | -508.05 | 732.50 | 0.73 | 0.66 | -6.27 |
| 8,650.00 | 3.34 | 301.02 | 8,596.84 | -526.34 | -512.58 | 733.24 | 0.28 | 0.18 | -3.88 |
| 8,745.00 | 1.76 | 300.14 | 8,691.74 | -524.18 | -516.21 | 733.96 | 1.66 | -1.66 | -0.93 |
| 8,839.00 | 1.76 | 315.52 | 8,785.70 | -522.43 | -518.47 | 734.10 | 0.50 | 0.00 | 16.36 |
| 8,934.00 | 0.79 | 198.45 | 8,880.68 | -522.01 | -519.70 | 734.59 | 2.35 | -1.02 | -123.23 |
| 9,029.00 | 1.06 | 236.07 | 8,975.67 | -523.12 | -520.64 | 736.04 | 0.68 | 0.28 | 39.60 |
| 9,123.00 | 1.14 | 269.47 | 9,069.65 | -523.61 | -522.29 | 737.49 | 0.68 | 0.09 | 35.53 |
| 9,218.00 | 0.97 | 302.78 | 9,164.64 | -523.19 | -523.92 | 738.22 | 0.66 | -0.18 | 35.06 |
| 9,312.00 | 1.41 | 339.16 | 9,258.62 | -521.67 | -525.00 | 737.78 | 0.91 | 0.47 | 38.70 |
| 9,407.00 | 1.85 | 2.19 | 9,353.58 | -519.05 | -525.35 | 736.02 | 0.82 | 0.46 | 24.24 |
| 9,482.00 | 2.02 | 28.30 | 9,428.54 | -516.68 | -524.68 | 733.78 | 1.19 | 0.23 | 34.81 |
| Last SDI Production MWD Survey | | | | | | | | | |
| 9,542.00 | 2.02 | 28.30 | 9,488.50 | -514.81 | -523.68 | 731.72 | 0.00 | 0.00 | 0.00 |
| Projection to TD - SR 24-12 PBHL | | | | | | | | | |

| Design Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 91.00 | 91.00 | -0.25 | 0.34 | First SDI Gyro MWD Survey |
| 489.00 | 488.22 | -13.75 | -14.37 | Last SDI Gyro MWD Survey |
| 566.00 | 564.61 | -20.48 | -21.30 | First SDI Surface MWD Survey |
| 1,062.00 | 1,055.65 | -68.98 | -71.49 | Last SDI Surface MWD Survey |
| 1,180.00 | 1,172.04 | -82.96 | -84.95 | First SDI Production MWD Survey |
| 9,482.00 | 9,428.54 | -516.68 | -524.68 | Last SDI Production MWD Survey |
| 9,542.00 | 9,488.50 | -514.81 | -523.68 | Projection to TD |

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



Well Details: SR 24-12

TVD Reference: GL 7478' & RKB 24' @ 7502.00usft (H&B 318) Level: 7478.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1597643.50 2340256.80 39.4510066 -107.8366170SR 24-12 (A11)

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SR 24-12 - Slot SR 24-12 (A11), True North
 Vertical (TVD) Reference: GL 7478' & RKB 24' @ 7502.00usft (H&P 318)
 Section (VS) Reference: Slot - SR 24-12 (A11)(0.00N, 0.00E)
 Measured Depth Reference: GL 7478' & RKB 24' @ 7502.00usft (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

12:01, February 23 2018
 Created By: Mel Mireles Jr.