



Directional Survey Certification

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

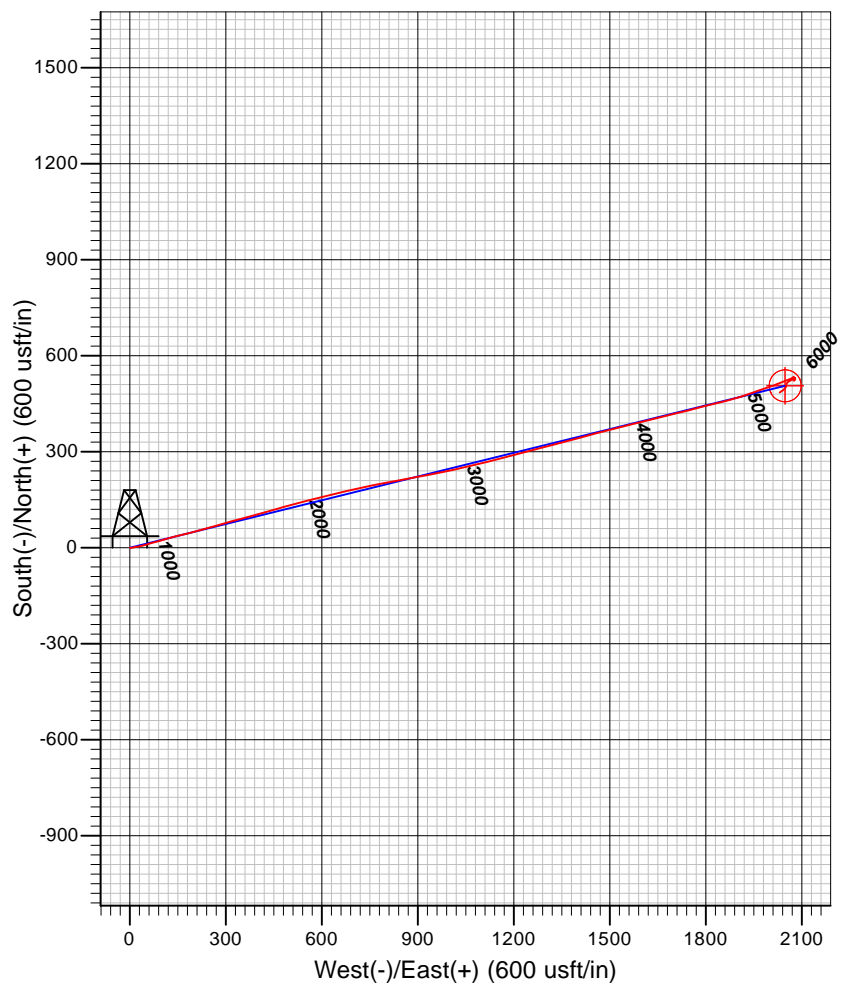
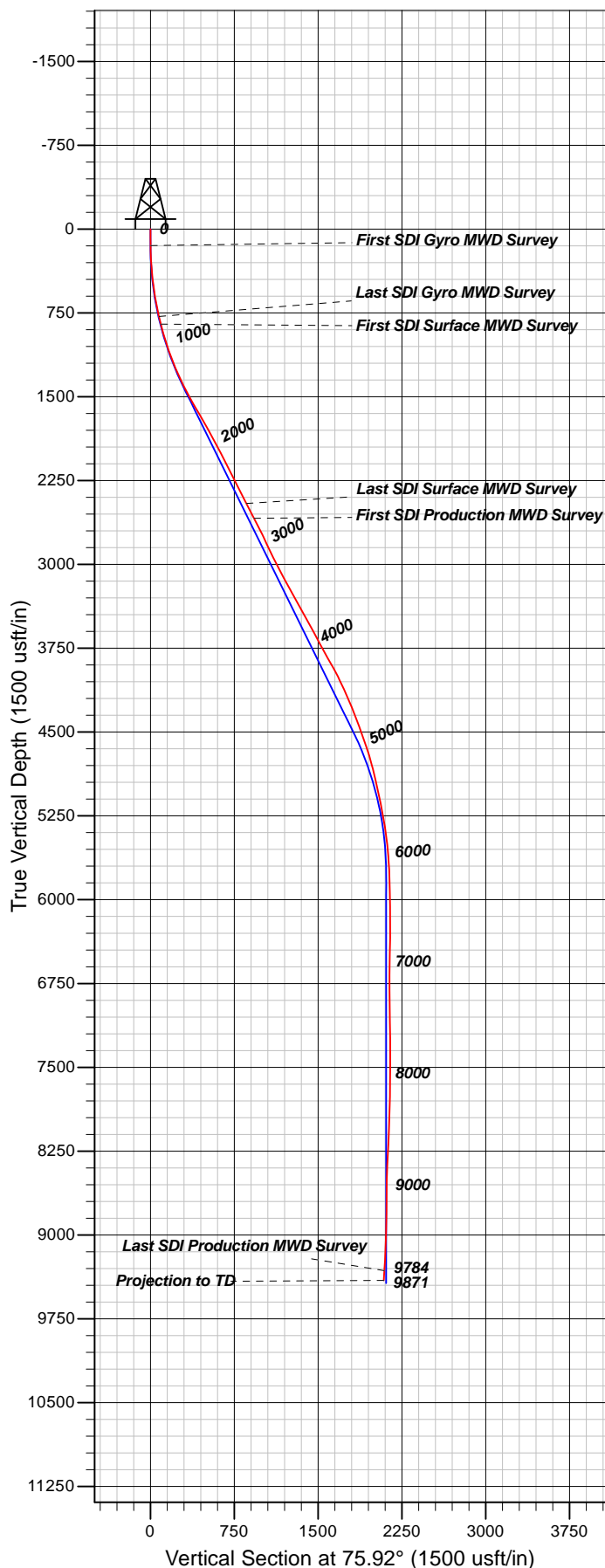
| | |
|-----------------|------------------------------------|
| Operator | TEP Rocky Mountain, LLC. |
| Well Name & No. | TR 324-21-597 |
| County & State | Garfield County, CO |
| SDI Job No. | 420117DEFK411041 & 420317DEF423897 |
| Rig | H&P 271 |

I, Mel Mireles Jr., having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 148 feet to a measured depth of 9,871 feet is true and correct as determined from all available records.


Signature

14-Mar-17
Date

Mel Mireles Jr.
Grand Junction Assistant Well Planner
Scientific Drilling - Colorado District



Well Details: Chevron TR 324-21-597

TVD Reference: GL 8292' & RKB 24' @ 8316.00usft (H&P 271) and Level: 8292.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1653235.30 2215067.30 39.5938808 -108.2857832 (TR 324-21-597)

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Chevron TR 324-21-597 - Slot A3 (TR 324-21-597), True North
 Vertical (TVD) Reference: GL 8292' & RKB 24' @ 8316.00usft (H&P 271)
 Section (VS) Reference: Slot - A3 (TR 324-21-597)(0.00N, 0.00E)
 Measured Depth Reference: GL 8292' & RKB 24' @ 8316.00usft (H&P 271)
 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

10:58, March 14 2017
 Created By: Janie Collins

| | | | |
|------------------|---------------------------|-------------------------------------|--|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well Chevron TR 324-21-597 - Slot A3 (TR 324-21-597) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 8292' & RKB 24' @ 8316.00usft (H&P 271) |
| Site: | TR 24-21-597 Pad | MD Reference: | GL 8292' & RKB 24' @ 8316.00usft (H&P 271) |
| Well: | Chevron TR 324-21-597 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | 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 | | |

| | | | | | |
|-----------------------|-----------|------------------|-------------------|-------------------|--------------|
| Site | | TR 24-21-597 Pad | | | |
| Site Position: | | Northing: | 1,653,248.80 usft | Latitude: | 39.5939185 |
| From: | Map | Easting: | 2,215,073.70 usft | Longitude: | -108.2857609 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in | Grid Convergence: | -1.76 ° |

| Well | Chevron TR 324-21-597 - Slot A3 (TR 324-21-597) | | | | | |
|----------------------|---|-----------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,653,235.30 usft | Latitude: | 39.5938809 |
| | +E/-W | 0.00 usft | Easting: | 2,215,067.30 usft | Longitude: | -108.2857821 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 8,292.00 usft |

| Wellbore | OH | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 1/12/2017 | 9.83 | 65.92 | 51,665 |
| | HDGM | 3/8/2017 | 9.82 | 65.92 | 51,647 |

| 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 | 75.92 | |

| Survey Program | Date | 3/14/2017 | | | |
|-----------------------|------------------|--|------------------|------------------------------------|--|
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 148.00 | 787.00 | Survey #1 - Gyro MWD Survey (OH) | SDI Gyro MWD 104 | SDI Gyro MWD Error Model Ver 1.0.4 | |
| 858.00 | 2,641.00 | Survey #2 - Surface MWD Survey (OH) | SDI MWD | SDI MWD - Standard ver 1.0.1 | |
| 2,789.00 | 9,871.00 | Survey #3 - Production MWD Survey (OH) | SDI MWD | SDI MWD - Standard ver 1.0.1 | |

| 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 | |
| 148.00 | 1.06 | 100.81 | 147.99 | -0.26 | 1.34 | 1.24 | 0.72 | 0.72 | 0.00 | |
| First SDI Gyro MWD Survey | | | | | | | | | | |
| 240.00 | 2.29 | 86.57 | 239.95 | -0.31 | 4.02 | 3.82 | 1.40 | 1.34 | -15.48 | |
| 331.00 | 3.61 | 76.11 | 330.83 | 0.49 | 8.61 | 8.47 | 1.56 | 1.45 | -11.49 | |
| 422.00 | 5.81 | 80.86 | 421.52 | 1.91 | 15.94 | 15.93 | 2.45 | 2.42 | 5.22 | |
| 511.00 | 7.92 | 80.68 | 509.87 | 3.62 | 26.44 | 26.53 | 2.37 | 2.37 | -0.20 | |

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| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well Chevron TR 324-21-597 - Slot A3 (TR 324-21-597) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 8292' & RKB 24' @ 8316.00usft (H&P 271) |
| Site: | TR 24-21-597 Pad | MD Reference: | GL 8292' & RKB 24' @ 8316.00usft (H&P 271) |
| Well: | Chevron TR 324-21-597 | 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) |
| 602.00 | 9.41 | 75.50 | 599.83 | 6.50 | 39.83 | 40.21 | 1.85 | 1.64 | -5.69 |
| 695.00 | 11.17 | 73.83 | 691.33 | 10.91 | 55.84 | 56.82 | 1.92 | 1.89 | -1.80 |
| 787.00 | 12.93 | 74.44 | 781.30 | 16.15 | 74.32 | 76.02 | 1.92 | 1.91 | 0.66 |
| Last SDI Gyro MWD Survey | | | | | | | | | |
| 858.00 | 14.42 | 73.82 | 850.29 | 20.75 | 90.46 | 92.79 | 2.11 | 2.10 | -0.87 |
| First SDI Surface MWD Survey | | | | | | | | | |
| 953.00 | 16.08 | 74.58 | 941.94 | 27.54 | 114.51 | 117.77 | 1.76 | 1.75 | 0.80 |
| 1,047.00 | 17.92 | 75.02 | 1,031.83 | 34.74 | 141.03 | 145.24 | 1.96 | 1.96 | 0.47 |
| 1,142.00 | 20.03 | 76.24 | 1,121.66 | 42.39 | 170.95 | 176.13 | 2.26 | 2.22 | 1.28 |
| 1,237.00 | 22.13 | 75.68 | 1,210.30 | 50.69 | 204.10 | 210.30 | 2.22 | 2.21 | -0.59 |
| 1,331.00 | 24.10 | 74.07 | 1,296.75 | 60.33 | 239.71 | 247.19 | 2.20 | 2.10 | -1.71 |
| 1,426.00 | 26.12 | 74.39 | 1,382.77 | 71.29 | 278.51 | 287.48 | 2.13 | 2.13 | 0.34 |
| 1,520.00 | 27.83 | 74.48 | 1,466.54 | 82.73 | 319.58 | 330.10 | 1.82 | 1.82 | 0.10 |
| 1,615.00 | 29.47 | 75.36 | 1,549.90 | 94.57 | 363.56 | 375.64 | 1.78 | 1.73 | 0.93 |
| 1,709.00 | 30.83 | 74.45 | 1,631.19 | 106.87 | 409.14 | 422.85 | 1.53 | 1.45 | -0.97 |
| 1,804.00 | 29.93 | 73.51 | 1,713.14 | 120.12 | 455.32 | 470.86 | 1.07 | -0.95 | -0.99 |
| 1,898.00 | 28.55 | 75.16 | 1,795.16 | 132.53 | 499.52 | 516.76 | 1.70 | -1.47 | 1.76 |
| 1,993.00 | 28.64 | 74.91 | 1,878.58 | 144.27 | 543.45 | 562.22 | 0.16 | 0.09 | -0.26 |
| 2,087.00 | 27.57 | 76.87 | 1,961.49 | 155.08 | 586.38 | 606.49 | 1.50 | -1.14 | 2.09 |
| 2,182.00 | 27.41 | 76.93 | 2,045.77 | 165.02 | 629.09 | 650.34 | 0.17 | -0.17 | 0.06 |
| 2,276.00 | 27.17 | 75.53 | 2,129.30 | 175.28 | 670.95 | 693.43 | 0.73 | -0.26 | -1.49 |
| 2,371.00 | 26.97 | 77.47 | 2,213.90 | 185.37 | 712.98 | 736.66 | 0.95 | -0.21 | 2.04 |
| 2,466.00 | 27.26 | 78.74 | 2,298.46 | 194.29 | 755.35 | 779.92 | 0.68 | 0.31 | 1.34 |
| 2,560.00 | 26.51 | 79.92 | 2,382.30 | 202.17 | 797.12 | 822.35 | 0.98 | -0.80 | 1.26 |
| 2,641.00 | 27.26 | 78.83 | 2,454.54 | 208.92 | 833.12 | 858.91 | 1.11 | 0.93 | -1.35 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 2,789.00 | 26.87 | 79.50 | 2,586.34 | 221.58 | 899.26 | 926.15 | 0.33 | -0.26 | 0.45 |
| First SDI Production MWD Survey | | | | | | | | | |
| 2,884.00 | 27.60 | 79.34 | 2,670.80 | 229.57 | 941.99 | 969.54 | 0.77 | 0.77 | -0.17 |
| 2,978.00 | 24.76 | 78.64 | 2,755.15 | 237.47 | 982.70 | 1,010.95 | 3.04 | -3.02 | -0.74 |
| 3,072.00 | 24.56 | 77.83 | 2,840.58 | 245.47 | 1,021.09 | 1,050.13 | 0.42 | -0.21 | -0.86 |
| 3,167.00 | 26.48 | 76.02 | 2,926.31 | 254.75 | 1,060.95 | 1,091.05 | 2.18 | 2.02 | -1.91 |
| 3,262.00 | 28.10 | 76.16 | 3,010.73 | 265.22 | 1,103.23 | 1,134.61 | 1.71 | 1.71 | 0.15 |
| 3,356.00 | 29.25 | 75.48 | 3,093.20 | 276.27 | 1,146.96 | 1,179.71 | 1.27 | 1.22 | -0.72 |
| 3,451.00 | 28.72 | 75.92 | 3,176.30 | 287.65 | 1,191.56 | 1,225.74 | 0.60 | -0.56 | 0.46 |
| 3,545.00 | 28.94 | 75.43 | 3,258.65 | 298.86 | 1,235.48 | 1,271.07 | 0.34 | 0.23 | -0.52 |
| 3,640.00 | 28.07 | 75.70 | 3,342.13 | 310.16 | 1,279.39 | 1,316.41 | 0.93 | -0.92 | 0.28 |
| 3,734.00 | 28.31 | 74.63 | 3,424.99 | 321.53 | 1,322.31 | 1,360.81 | 0.60 | 0.26 | -1.14 |
| 3,829.00 | 28.38 | 75.84 | 3,508.60 | 333.03 | 1,365.92 | 1,405.91 | 0.61 | 0.07 | 1.27 |
| 3,923.00 | 29.14 | 74.98 | 3,591.00 | 344.42 | 1,409.69 | 1,451.13 | 0.92 | 0.81 | -0.91 |
| 4,018.00 | 28.33 | 74.81 | 3,674.30 | 356.33 | 1,453.78 | 1,496.79 | 0.86 | -0.85 | -0.18 |
| 4,112.00 | 29.36 | 75.83 | 3,756.64 | 367.81 | 1,497.65 | 1,542.14 | 1.21 | 1.10 | 1.09 |
| 4,206.00 | 28.96 | 76.00 | 3,838.72 | 378.96 | 1,542.08 | 1,587.94 | 0.43 | -0.43 | 0.18 |

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| Well: | Chevron TR 324-21-597 | 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) |
| 4,301.00 | 28.66 | 75.72 | 3,921.96 | 390.14 | 1,586.47 | 1,633.72 | 0.35 | -0.32 | -0.29 |
| 4,396.00 | 26.92 | 76.91 | 4,006.00 | 400.63 | 1,629.50 | 1,678.01 | 1.92 | -1.83 | 1.25 |
| 4,490.00 | 24.89 | 75.61 | 4,090.56 | 410.37 | 1,669.39 | 1,719.07 | 2.24 | -2.16 | -1.38 |
| 4,585.00 | 23.84 | 76.30 | 4,177.09 | 419.88 | 1,707.41 | 1,758.26 | 1.15 | -1.11 | 0.73 |
| 4,679.00 | 22.28 | 75.82 | 4,263.58 | 428.75 | 1,743.14 | 1,795.08 | 1.67 | -1.66 | -0.51 |
| 4,774.00 | 21.51 | 76.22 | 4,351.73 | 437.31 | 1,777.52 | 1,830.50 | 0.83 | -0.81 | 0.42 |
| 4,868.00 | 20.36 | 75.84 | 4,439.52 | 445.41 | 1,810.11 | 1,864.09 | 1.23 | -1.22 | -0.40 |
| 4,963.00 | 19.35 | 75.35 | 4,528.87 | 453.44 | 1,841.36 | 1,896.36 | 1.08 | -1.06 | -0.52 |
| 5,057.00 | 18.51 | 76.21 | 4,617.79 | 460.93 | 1,870.92 | 1,926.85 | 0.94 | -0.89 | 0.91 |
| 5,152.00 | 16.67 | 72.34 | 4,708.34 | 468.66 | 1,898.55 | 1,955.53 | 2.29 | -1.94 | -4.07 |
| 5,246.00 | 15.81 | 71.84 | 4,798.59 | 476.74 | 1,923.57 | 1,981.76 | 0.93 | -0.91 | -0.53 |
| 5,341.00 | 13.22 | 70.12 | 4,890.55 | 484.47 | 1,946.09 | 2,005.48 | 2.76 | -2.73 | -1.81 |
| 5,435.00 | 12.69 | 71.57 | 4,982.16 | 491.39 | 1,965.99 | 2,026.47 | 0.66 | -0.56 | 1.54 |
| 5,530.00 | 11.90 | 71.39 | 5,074.98 | 497.82 | 1,985.17 | 2,046.64 | 0.83 | -0.83 | -0.19 |
| 5,625.00 | 11.40 | 71.54 | 5,168.02 | 503.91 | 2,003.36 | 2,065.76 | 0.53 | -0.53 | 0.16 |
| 5,719.00 | 9.68 | 67.53 | 5,260.44 | 509.88 | 2,019.48 | 2,082.85 | 1.99 | -1.83 | -4.27 |
| 5,814.00 | 9.51 | 68.41 | 5,354.11 | 515.82 | 2,034.15 | 2,098.53 | 0.24 | -0.18 | 0.93 |
| 5,908.00 | 7.34 | 70.03 | 5,447.09 | 520.73 | 2,047.02 | 2,112.20 | 2.32 | -2.31 | 1.72 |
| 6,003.00 | 5.02 | 67.67 | 5,541.53 | 524.38 | 2,056.57 | 2,122.35 | 2.46 | -2.44 | -2.48 |
| 6,097.00 | 4.59 | 68.76 | 5,635.20 | 527.30 | 2,063.88 | 2,130.15 | 0.47 | -0.46 | 1.16 |
| 6,191.00 | 2.66 | 49.81 | 5,729.01 | 530.07 | 2,069.05 | 2,135.85 | 2.39 | -2.05 | -20.16 |
| 6,286.00 | 2.33 | 53.80 | 5,823.92 | 532.64 | 2,072.29 | 2,139.61 | 0.39 | -0.35 | 4.20 |
| 6,380.00 | 1.22 | 110.34 | 5,917.88 | 533.42 | 2,074.77 | 2,142.21 | 2.07 | -1.18 | 60.15 |
| 6,475.00 | 1.22 | 132.29 | 6,012.86 | 532.39 | 2,076.47 | 2,143.60 | 0.49 | 0.00 | 23.11 |
| 6,570.00 | 1.13 | 147.83 | 6,107.84 | 530.91 | 2,077.72 | 2,144.45 | 0.35 | -0.09 | 16.36 |
| 6,664.00 | 1.14 | 159.04 | 6,201.82 | 529.25 | 2,078.55 | 2,144.85 | 0.24 | 0.01 | 11.93 |
| 6,759.00 | 1.01 | 181.81 | 6,296.80 | 527.54 | 2,078.86 | 2,144.74 | 0.47 | -0.14 | 23.97 |
| 6,853.00 | 1.20 | 193.93 | 6,390.79 | 525.75 | 2,078.59 | 2,144.05 | 0.32 | 0.20 | 12.89 |
| 6,948.00 | 1.43 | 211.97 | 6,485.76 | 523.78 | 2,077.73 | 2,142.73 | 0.50 | 0.24 | 18.99 |
| 7,043.00 | 0.74 | 256.16 | 6,580.74 | 522.63 | 2,076.50 | 2,141.26 | 1.09 | -0.73 | 46.52 |
| 7,137.00 | 1.14 | 262.82 | 6,674.73 | 522.37 | 2,074.99 | 2,139.73 | 0.44 | 0.43 | 7.09 |
| 7,232.00 | 0.97 | 30.73 | 6,769.72 | 522.94 | 2,074.46 | 2,139.36 | 2.00 | -0.18 | 134.64 |
| 7,326.00 | 0.74 | 27.97 | 6,863.71 | 524.16 | 2,075.15 | 2,140.32 | 0.25 | -0.24 | -2.94 |
| 7,421.00 | 0.45 | 14.52 | 6,958.71 | 525.06 | 2,075.53 | 2,140.91 | 0.34 | -0.31 | -14.16 |
| 7,515.00 | 1.41 | 36.50 | 7,052.70 | 526.35 | 2,076.31 | 2,141.98 | 1.07 | 1.02 | 23.38 |
| 7,610.00 | 1.05 | 46.55 | 7,147.67 | 527.89 | 2,077.64 | 2,143.64 | 0.44 | -0.38 | 10.58 |
| 7,704.00 | 0.64 | 44.94 | 7,241.66 | 528.85 | 2,078.64 | 2,144.84 | 0.44 | -0.44 | -1.71 |
| 7,799.00 | 0.13 | 154.64 | 7,336.66 | 529.13 | 2,079.06 | 2,145.32 | 0.73 | -0.54 | 115.47 |
| 7,893.00 | 0.54 | 210.82 | 7,430.66 | 528.65 | 2,078.88 | 2,145.03 | 0.51 | 0.44 | 59.77 |
| 7,988.00 | 0.26 | 340.04 | 7,525.66 | 528.47 | 2,078.57 | 2,144.69 | 0.77 | -0.29 | 136.02 |
| 8,083.00 | 0.35 | 291.41 | 7,620.66 | 528.78 | 2,078.23 | 2,144.43 | 0.28 | 0.09 | -51.19 |
| 8,177.00 | 0.83 | 258.87 | 7,714.65 | 528.75 | 2,077.29 | 2,143.52 | 0.60 | 0.51 | -34.62 |
| 8,272.00 | 1.44 | 257.41 | 7,809.63 | 528.36 | 2,075.45 | 2,141.64 | 0.64 | 0.64 | -1.54 |

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| Site: | TR 24-21-597 Pad | MD Reference: | GL 8292' & RKB 24' @ 8316.00usft (H&P 271) |
| Well: | Chevron TR 324-21-597 | 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) | |
| 8,366.00 | 1.84 | 244.74 | 7,903.59 | 527.46 | 2,072.94 | 2,138.98 | 0.57 | 0.43 | -13.48 | |
| 8,461.00 | 1.95 | 237.72 | 7,998.54 | 525.94 | 2,070.19 | 2,135.95 | 0.27 | 0.12 | -7.39 | |
| 8,555.00 | 2.29 | 237.47 | 8,092.48 | 524.08 | 2,067.25 | 2,132.64 | 0.36 | 0.36 | -0.27 | |
| 8,650.00 | 2.32 | 244.46 | 8,187.40 | 522.23 | 2,063.92 | 2,128.96 | 0.30 | 0.03 | 7.36 | |
| 8,744.00 | 2.85 | 238.78 | 8,281.31 | 520.20 | 2,060.20 | 2,124.86 | 0.63 | 0.56 | -6.04 | |
| 8,839.00 | 3.44 | 232.59 | 8,376.16 | 517.24 | 2,055.92 | 2,119.99 | 0.72 | 0.62 | -6.52 | |
| 8,933.00 | 3.38 | 205.73 | 8,470.00 | 513.03 | 2,052.48 | 2,115.62 | 1.69 | -0.06 | -28.57 | |
| 9,028.00 | 1.42 | 179.27 | 8,564.92 | 509.33 | 2,051.28 | 2,113.56 | 2.32 | -2.06 | -27.85 | |
| 9,122.00 | 1.30 | 171.38 | 8,658.89 | 507.11 | 2,051.45 | 2,113.19 | 0.24 | -0.13 | -8.39 | |
| 9,217.00 | 1.28 | 187.04 | 8,753.87 | 505.00 | 2,051.48 | 2,112.70 | 0.37 | -0.02 | 16.48 | |
| 9,312.00 | 1.43 | 208.28 | 8,848.84 | 502.90 | 2,050.79 | 2,111.52 | 0.55 | 0.16 | 22.36 | |
| 9,406.00 | 1.89 | 214.92 | 8,942.80 | 500.60 | 2,049.35 | 2,109.56 | 0.53 | 0.49 | 7.06 | |
| 9,501.00 | 2.12 | 219.71 | 9,037.74 | 497.96 | 2,047.33 | 2,106.96 | 0.30 | 0.24 | 5.04 | |
| 9,595.00 | 2.96 | 229.68 | 9,131.65 | 495.05 | 2,044.37 | 2,103.38 | 1.01 | 0.89 | 10.61 | |
| 9,690.00 | 3.42 | 233.68 | 9,226.50 | 491.79 | 2,040.21 | 2,098.56 | 0.54 | 0.48 | 4.21 | |
| 9,784.00 | 3.89 | 233.96 | 9,320.31 | 488.25 | 2,035.38 | 2,093.01 | 0.50 | 0.50 | 0.30 | |
| Last SDI Production MWD Survey | | | | | | | | | | |
| 9,871.00 | 3.89 | 233.96 | 9,407.11 | 484.78 | 2,030.60 | 2,087.53 | 0.00 | 0.00 | 0.00 | |
| Projection to TD | | | | | | | | | | |

| Design Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 148.00 | 147.99 | -0.26 | 1.34 | First SDI Gyro MWD Survey | |
| 787.00 | 781.30 | 16.15 | 74.32 | Last SDI Gyro MWD Survey | |
| 858.00 | 850.29 | 20.75 | 90.46 | First SDI Surface MWD Survey | |
| 2,641.00 | 2,454.54 | 208.92 | 833.12 | Last SDI Surface MWD Survey | |
| 2,789.00 | 2,586.34 | 221.58 | 899.26 | First SDI Production MWD Survey | |
| 9,784.00 | 9,320.31 | 488.25 | 2,035.38 | Last SDI Production MWD Survey | |
| 9,871.00 | 9,407.11 | 484.78 | 2,030.60 | Projection to TD | |

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