



Well Details: NR 44-3

| TVD Reference: GL 6720 & RKB 24' @ 6744.00usft | | Ground Level: 6720.00 | | Slot | |
|--|-------|-----------------------|------------|------------|----------------------------|
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| 0.00 | 0.00 | 1634892.53 | 2329766.62 | 39.5524900 | -107.8772047 NR 44-3 (A12) |

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well NR 44-3 - Slot NR 44-3 (A12), True North
 Vertical (TVD) Reference: GL 6720 & RKB 24' @ 6744.00usft
 Section (VS) Reference: Slot - NR 44-3 (A12)(0.00N, 0.00E)
 Measured Depth Reference: GL 6720 & RKB 24' @ 6744.00usft
 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

17:49, November 30 2018
 Created By: Mel Mireles Jr.



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 44-3 |
| County & State | Garfield County, CO |
| SDI Job No. | OP.014456 |
| 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 213 feet to a measured depth of 10,623 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-Nov-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 44-3 - Slot NR 44-3 (A12) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 6720 & RKB 24' @ 6744.00usft |
| Site: | NR 23-3 Pad | MD Reference: | GL 6720 & RKB 24' @ 6744.00usft |
| Well: | NR 44-3 | 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 ° |

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|----------------------|------------------------------|-----------|---------------------|-------------------|---------------|---------------|
| Well | NR 44-3 - Slot NR 44-3 (A12) | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,634,892.53 usft | Latitude: | 39.5524900 |
| | +E/-W | 0.00 usft | Easting: | 2,329,766.62 usft | Longitude: | -107.8772048 |
| 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 | 11/9/2018 | 9.42 | 65.78 | 51,520 |

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|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| 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 | 109.43 | |

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|-----------------------|------------------|--|------------------|--------------------------------|--|
| Survey Program | Date | 11/30/2018 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 213.00 | 489.00 | Survey #1 - Gyro MWD Survey (OH) | Gyro MWD 105 | Gyro MWD Error Model Ver 1.0.5 | |
| 559.00 | 1,069.00 | Survey #2 - Surface MWD Survey (OH) | MWD+HDGM | OWSG MWD + HDGM | |
| 1,181.00 | 10,623.00 | 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 | |
| 213.00 | 2.20 | 143.35 | 212.95 | -3.28 | 2.44 | 3.39 | 1.03 | 1.03 | 0.00 | |
| First SDI Gyro MWD Survey | | | | | | | | | | |
| 305.00 | 3.78 | 109.60 | 304.83 | -5.71 | 6.35 | 7.89 | 2.50 | 1.72 | -36.68 | |
| 397.00 | 6.95 | 112.15 | 396.41 | -8.83 | 14.37 | 16.49 | 3.45 | 3.45 | 2.77 | |
| 489.00 | 10.12 | 113.82 | 487.38 | -14.20 | 26.92 | 30.11 | 3.46 | 3.45 | 1.82 | |
| Last SDI Gyro MWD Survey | | | | | | | | | | |
| 559.00 | 12.49 | 111.04 | 556.02 | -19.40 | 39.61 | 43.81 | 3.47 | 3.39 | -3.97 | |

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|------------------|---------------------------|-------------------------------------|-----------------------------------|
| Company: | TEP Rocky Mountain LLC | Local Co-ordinate Reference: | Well NR 44-3 - Slot NR 44-3 (A12) |
| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 6720 & RKB 24' @ 6744.00usft |
| Site: | NR 23-3 Pad | MD Reference: | GL 6720 & RKB 24' @ 6744.00usft |
| Well: | NR 44-3 | 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 | | | | | | | | | |
| 651.00 | 14.92 | 106.63 | 645.39 | -26.36 | 60.25 | 65.59 | 2.87 | 2.64 | -4.79 |
| 745.00 | 18.11 | 105.91 | 735.51 | -33.83 | 85.90 | 92.26 | 3.40 | 3.39 | -0.77 |
| 840.00 | 21.48 | 107.60 | 824.88 | -43.14 | 116.69 | 124.39 | 3.60 | 3.55 | 1.78 |
| 934.00 | 24.71 | 107.96 | 911.33 | -54.40 | 151.79 | 161.25 | 3.44 | 3.44 | 0.38 |
| 1,028.00 | 27.61 | 109.18 | 995.70 | -67.62 | 191.06 | 202.68 | 3.14 | 3.09 | 1.30 |
| 1,069.00 | 28.31 | 108.38 | 1,031.91 | -73.81 | 209.26 | 221.90 | 1.94 | 1.71 | -1.95 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 1,181.00 | 28.98 | 108.67 | 1,130.20 | -90.87 | 260.17 | 275.58 | 0.61 | 0.60 | 0.26 |
| First SDI Production MWD Survey | | | | | | | | | |
| 1,275.00 | 30.19 | 108.52 | 1,211.94 | -105.67 | 304.16 | 321.98 | 1.29 | 1.29 | -0.16 |
| 1,369.00 | 31.57 | 107.42 | 1,292.62 | -120.54 | 350.05 | 370.21 | 1.59 | 1.47 | -1.17 |
| 1,464.00 | 32.50 | 107.00 | 1,373.15 | -135.45 | 398.18 | 420.56 | 1.01 | 0.98 | -0.44 |
| 1,558.00 | 34.12 | 106.28 | 1,451.71 | -150.22 | 447.64 | 472.12 | 1.77 | 1.72 | -0.77 |
| 1,653.00 | 33.15 | 110.32 | 1,530.81 | -166.71 | 497.58 | 524.70 | 2.57 | -1.02 | 4.25 |
| 1,748.00 | 34.47 | 110.23 | 1,609.74 | -185.03 | 547.17 | 577.56 | 1.39 | 1.39 | -0.09 |
| 1,842.00 | 32.36 | 111.99 | 1,688.20 | -203.65 | 595.46 | 629.29 | 2.47 | -2.24 | 1.87 |
| 1,937.00 | 29.37 | 109.88 | 1,769.74 | -221.10 | 640.95 | 678.00 | 3.35 | -3.15 | -2.22 |
| 2,031.00 | 27.54 | 109.65 | 1,852.38 | -236.25 | 683.10 | 722.79 | 1.95 | -1.95 | -0.24 |
| 2,126.00 | 27.97 | 108.82 | 1,936.45 | -250.82 | 724.87 | 767.03 | 0.61 | 0.45 | -0.87 |
| 2,220.00 | 26.67 | 107.97 | 2,019.96 | -264.44 | 765.81 | 810.16 | 1.44 | -1.38 | -0.90 |
| 2,315.00 | 27.61 | 107.77 | 2,104.50 | -277.73 | 807.05 | 853.48 | 0.99 | 0.99 | -0.21 |
| 2,410.00 | 26.82 | 107.86 | 2,188.99 | -291.03 | 848.41 | 896.91 | 0.83 | -0.83 | 0.09 |
| 2,505.00 | 27.65 | 107.52 | 2,273.46 | -304.24 | 889.84 | 940.36 | 0.89 | 0.87 | -0.36 |
| 2,599.00 | 28.38 | 105.85 | 2,356.44 | -316.90 | 932.13 | 984.46 | 1.14 | 0.78 | -1.78 |
| 2,694.00 | 26.89 | 106.15 | 2,440.60 | -329.05 | 974.48 | 1,028.44 | 1.58 | -1.57 | 0.32 |
| 2,789.00 | 27.32 | 106.51 | 2,525.17 | -341.22 | 1,016.02 | 1,071.67 | 0.48 | 0.45 | 0.38 |
| 2,883.00 | 27.43 | 105.53 | 2,608.64 | -353.14 | 1,057.56 | 1,114.81 | 0.49 | 0.12 | -1.04 |
| 2,978.00 | 27.91 | 103.91 | 2,692.78 | -364.35 | 1,100.23 | 1,158.77 | 0.94 | 0.51 | -1.71 |
| 3,073.00 | 28.21 | 106.77 | 2,776.62 | -376.17 | 1,143.31 | 1,203.34 | 1.45 | 0.32 | 3.01 |
| 3,167.00 | 28.95 | 105.85 | 2,859.16 | -388.80 | 1,186.47 | 1,248.24 | 0.92 | 0.79 | -0.98 |
| 3,262.00 | 27.44 | 108.74 | 2,942.89 | -402.11 | 1,229.32 | 1,293.07 | 2.14 | -1.59 | 3.04 |
| 3,357.00 | 27.96 | 108.52 | 3,027.00 | -416.22 | 1,271.17 | 1,337.23 | 0.56 | 0.55 | -0.23 |
| 3,451.00 | 28.50 | 108.26 | 3,109.82 | -430.24 | 1,313.36 | 1,381.69 | 0.59 | 0.57 | -0.28 |
| 3,546.00 | 28.75 | 108.21 | 3,193.21 | -444.48 | 1,356.59 | 1,427.19 | 0.26 | 0.26 | -0.05 |
| 3,640.00 | 29.60 | 107.49 | 3,275.29 | -458.53 | 1,400.20 | 1,472.99 | 0.98 | 0.90 | -0.77 |
| 3,734.00 | 28.49 | 111.99 | 3,357.47 | -473.90 | 1,443.14 | 1,518.60 | 2.61 | -1.18 | 4.79 |
| 3,829.00 | 28.67 | 112.21 | 3,440.90 | -491.00 | 1,485.25 | 1,564.00 | 0.22 | 0.19 | 0.23 |
| 3,923.00 | 27.52 | 112.08 | 3,523.82 | -507.69 | 1,526.25 | 1,608.21 | 1.23 | -1.22 | -0.14 |
| 4,018.00 | 30.00 | 110.51 | 3,607.10 | -524.26 | 1,568.84 | 1,653.89 | 2.73 | 2.61 | -1.65 |
| 4,112.00 | 29.55 | 109.35 | 3,688.69 | -540.17 | 1,612.72 | 1,700.57 | 0.78 | -0.48 | -1.23 |
| 4,206.00 | 30.07 | 109.53 | 3,770.25 | -555.73 | 1,656.79 | 1,747.30 | 0.56 | 0.55 | 0.19 |
| 4,301.00 | 29.85 | 109.24 | 3,852.55 | -571.47 | 1,701.54 | 1,794.74 | 0.28 | -0.23 | -0.31 |
| 4,396.00 | 29.90 | 108.56 | 3,934.93 | -586.80 | 1,746.31 | 1,842.06 | 0.36 | 0.05 | -0.72 |

| | | | |
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| Site: | NR 23-3 Pad | MD Reference: | GL 6720 & RKB 24' @ 6744.00usft |
| Well: | NR 44-3 | 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) |
| 4,490.00 | 29.72 | 108.38 | 4,016.49 | -601.61 | 1,790.63 | 1,888.78 | 0.21 | -0.19 | -0.19 |
| 4,585.00 | 29.98 | 108.48 | 4,098.89 | -616.56 | 1,835.49 | 1,936.06 | 0.28 | 0.27 | 0.11 |
| 4,679.00 | 29.92 | 108.72 | 4,180.33 | -631.52 | 1,879.97 | 1,982.98 | 0.14 | -0.06 | 0.26 |
| 4,773.00 | 29.72 | 108.85 | 4,261.89 | -646.58 | 1,924.22 | 2,029.72 | 0.22 | -0.21 | 0.14 |
| 4,868.00 | 28.70 | 109.60 | 4,344.81 | -661.84 | 1,968.00 | 2,076.08 | 1.14 | -1.07 | 0.79 |
| 4,962.00 | 28.31 | 110.41 | 4,427.41 | -677.18 | 2,010.15 | 2,120.94 | 0.58 | -0.41 | 0.86 |
| 5,056.00 | 27.76 | 110.58 | 4,510.38 | -692.65 | 2,051.53 | 2,165.11 | 0.59 | -0.59 | 0.18 |
| 5,151.00 | 27.43 | 110.45 | 4,594.58 | -708.07 | 2,092.75 | 2,209.11 | 0.35 | -0.35 | -0.14 |
| 5,245.00 | 28.75 | 109.88 | 4,677.50 | -723.32 | 2,134.30 | 2,253.36 | 1.43 | 1.40 | -0.61 |
| 5,340.00 | 28.90 | 109.83 | 4,760.73 | -738.88 | 2,177.38 | 2,299.17 | 0.16 | 0.16 | -0.05 |
| 5,434.00 | 28.31 | 109.44 | 4,843.26 | -754.00 | 2,219.76 | 2,344.17 | 0.66 | -0.63 | -0.41 |
| 5,528.00 | 27.70 | 109.00 | 4,926.25 | -768.54 | 2,261.44 | 2,388.31 | 0.69 | -0.65 | -0.47 |
| 5,622.00 | 27.40 | 108.73 | 5,009.59 | -782.59 | 2,302.58 | 2,431.78 | 0.35 | -0.32 | -0.29 |
| 5,716.00 | 27.52 | 109.18 | 5,093.00 | -796.67 | 2,343.58 | 2,475.13 | 0.26 | 0.13 | 0.48 |
| 5,811.00 | 26.88 | 108.72 | 5,177.49 | -810.78 | 2,384.65 | 2,518.55 | 0.71 | -0.67 | -0.48 |
| 5,905.00 | 26.47 | 109.62 | 5,261.49 | -824.63 | 2,424.51 | 2,560.75 | 0.61 | -0.44 | 0.96 |
| 6,000.00 | 25.94 | 110.49 | 5,346.73 | -839.02 | 2,463.91 | 2,602.69 | 0.69 | -0.56 | 0.92 |
| 6,094.00 | 24.98 | 110.93 | 5,431.60 | -853.30 | 2,501.71 | 2,643.09 | 1.04 | -1.02 | 0.47 |
| 6,189.00 | 24.27 | 110.05 | 5,517.96 | -867.16 | 2,538.79 | 2,682.67 | 0.84 | -0.75 | -0.93 |
| 6,283.00 | 24.45 | 110.58 | 5,603.59 | -880.62 | 2,575.15 | 2,721.43 | 0.30 | 0.19 | 0.56 |
| 6,378.00 | 25.33 | 109.51 | 5,689.76 | -894.32 | 2,612.71 | 2,761.41 | 1.04 | 0.93 | -1.13 |
| 6,472.00 | 23.86 | 108.44 | 5,775.23 | -907.05 | 2,649.70 | 2,800.53 | 1.63 | -1.56 | -1.14 |
| 6,567.00 | 22.07 | 109.44 | 5,862.70 | -919.07 | 2,684.76 | 2,837.59 | 1.93 | -1.88 | 1.05 |
| 6,662.00 | 19.68 | 109.74 | 5,951.46 | -930.41 | 2,716.65 | 2,871.44 | 2.52 | -2.52 | 0.32 |
| 6,756.00 | 18.99 | 109.09 | 6,040.16 | -940.76 | 2,746.00 | 2,902.56 | 0.77 | -0.73 | -0.69 |
| 6,851.00 | 16.88 | 108.82 | 6,130.53 | -950.27 | 2,773.67 | 2,931.82 | 2.22 | -2.22 | -0.28 |
| 6,945.00 | 16.27 | 108.21 | 6,220.63 | -958.79 | 2,799.09 | 2,958.63 | 0.67 | -0.65 | -0.65 |
| 7,040.00 | 14.51 | 108.30 | 6,312.22 | -966.68 | 2,823.04 | 2,983.83 | 1.85 | -1.85 | 0.09 |
| 7,135.00 | 14.33 | 107.77 | 6,404.22 | -974.01 | 2,845.53 | 3,007.48 | 0.23 | -0.19 | -0.56 |
| 7,229.00 | 11.87 | 112.34 | 6,495.77 | -981.23 | 2,865.55 | 3,028.77 | 2.84 | -2.62 | 4.86 |
| 7,323.00 | 9.85 | 113.04 | 6,588.09 | -988.06 | 2,881.90 | 3,046.45 | 2.15 | -2.15 | 0.74 |
| 7,417.00 | 7.47 | 108.12 | 6,681.01 | -993.10 | 2,895.10 | 3,060.59 | 2.65 | -2.53 | -5.23 |
| 7,512.00 | 5.63 | 101.00 | 6,775.39 | -995.91 | 2,905.55 | 3,071.37 | 2.11 | -1.94 | -7.49 |
| 7,606.00 | 5.19 | 96.61 | 6,868.97 | -997.28 | 2,914.30 | 3,080.08 | 0.64 | -0.47 | -4.67 |
| 7,700.00 | 5.98 | 101.44 | 6,962.52 | -998.74 | 2,923.32 | 3,089.07 | 0.98 | 0.84 | 5.14 |
| 7,795.00 | 6.07 | 103.64 | 7,057.00 | -1,000.91 | 2,933.05 | 3,098.97 | 0.26 | 0.09 | 2.32 |
| 7,890.00 | 5.63 | 112.16 | 7,151.50 | -1,003.85 | 2,942.25 | 3,108.62 | 1.02 | -0.46 | 8.97 |
| 7,984.00 | 4.66 | 102.32 | 7,245.13 | -1,006.41 | 2,950.25 | 3,117.02 | 1.39 | -1.03 | -10.47 |
| 8,078.00 | 4.22 | 76.74 | 7,338.85 | -1,006.43 | 2,957.35 | 3,123.72 | 2.14 | -0.47 | -27.21 |
| 8,081.92 | 4.17 | 76.10 | 7,342.77 | -1,006.36 | 2,957.63 | 3,123.96 | 1.68 | -1.18 | -16.39 |
| NR 44-3 BTV | | | | | | | | | |
| 8,173.00 | 3.29 | 56.59 | 7,433.65 | -1,004.12 | 2,963.03 | 3,128.31 | 1.68 | -0.97 | -21.42 |
| 8,267.00 | 2.99 | 23.66 | 7,527.52 | -1,000.39 | 2,966.26 | 3,130.12 | 1.92 | -0.32 | -35.03 |
| 8,362.00 | 2.81 | 7.40 | 7,622.40 | -995.81 | 2,967.56 | 3,129.81 | 0.88 | -0.19 | -17.12 |

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------------------|
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| Project: | Garfield County, CO NAD83 | TVD Reference: | GL 6720 & RKB 24' @ 6744.00usft |
| Site: | NR 23-3 Pad | MD Reference: | GL 6720 & RKB 24' @ 6744.00usft |
| Well: | NR 44-3 | 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) | |
| 8,455.00 | 2.46 | 8.37 | 7,715.30 | -991.58 | 2,968.14 | 3,128.96 | 0.38 | -0.38 | 1.04 | |
| 8,549.00 | 1.32 | 357.38 | 7,809.25 | -988.50 | 2,968.39 | 3,128.16 | 1.27 | -1.21 | -11.69 | |
| 8,644.00 | 0.69 | 281.23 | 7,904.23 | -987.30 | 2,967.77 | 3,127.19 | 1.41 | -0.66 | -80.16 | |
| 8,738.00 | 0.41 | 324.40 | 7,998.23 | -986.91 | 2,967.02 | 3,126.35 | 0.51 | -0.30 | 45.93 | |
| 8,832.00 | 0.70 | 299.02 | 8,092.23 | -986.36 | 2,966.33 | 3,125.51 | 0.40 | 0.31 | -27.00 | |
| 8,927.00 | 0.87 | 250.89 | 8,187.22 | -986.32 | 2,965.14 | 3,124.37 | 0.69 | 0.18 | -50.66 | |
| 9,021.00 | 0.97 | 255.34 | 8,281.21 | -986.75 | 2,963.69 | 3,123.16 | 0.13 | 0.11 | 4.73 | |
| 9,116.00 | 1.58 | 241.28 | 8,376.18 | -987.58 | 2,961.77 | 3,121.62 | 0.72 | 0.64 | -14.80 | |
| 9,211.00 | 1.23 | 265.53 | 8,471.15 | -988.29 | 2,959.60 | 3,119.81 | 0.72 | -0.37 | 25.53 | |
| 9,305.00 | 0.88 | 291.99 | 8,565.14 | -988.10 | 2,957.93 | 3,118.17 | 0.63 | -0.37 | 28.15 | |
| 9,399.00 | 1.67 | 0.54 | 8,659.12 | -986.46 | 2,957.27 | 3,117.00 | 1.68 | 0.84 | 72.93 | |
| 9,494.00 | 1.76 | 5.46 | 8,754.08 | -983.62 | 2,957.42 | 3,116.20 | 0.18 | 0.09 | 5.18 | |
| 9,588.00 | 0.79 | 354.38 | 8,848.05 | -981.54 | 2,957.49 | 3,115.58 | 1.06 | -1.03 | -11.79 | |
| 9,683.00 | 0.51 | 1.34 | 8,943.05 | -980.47 | 2,957.44 | 3,115.17 | 0.31 | -0.29 | 7.33 | |
| 9,777.00 | 1.41 | 35.44 | 9,037.03 | -979.11 | 2,958.12 | 3,115.36 | 1.09 | 0.96 | 36.28 | |
| 9,871.00 | 0.97 | 43.52 | 9,131.01 | -977.59 | 2,959.34 | 3,116.00 | 0.50 | -0.47 | 8.60 | |
| 9,966.00 | 0.35 | 159.36 | 9,226.01 | -977.28 | 2,960.00 | 3,116.52 | 1.23 | -0.65 | 121.94 | |
| 10,060.00 | 1.74 | 205.57 | 9,319.99 | -978.83 | 2,959.48 | 3,116.55 | 1.62 | 1.48 | 49.16 | |
| 10,155.00 | 3.96 | 211.57 | 9,414.87 | -982.93 | 2,957.14 | 3,115.71 | 2.35 | 2.34 | 6.32 | |
| 10,249.00 | 5.28 | 209.28 | 9,508.56 | -989.47 | 2,953.33 | 3,114.28 | 1.42 | 1.40 | -2.44 | |
| 10,344.00 | 5.98 | 211.30 | 9,603.10 | -997.51 | 2,948.62 | 3,112.52 | 0.77 | 0.74 | 2.13 | |
| 10,438.00 | 7.12 | 213.94 | 9,696.49 | -1,006.53 | 2,942.82 | 3,110.05 | 1.25 | 1.21 | 2.81 | |
| 10,532.00 | 7.65 | 218.79 | 9,789.71 | -1,016.24 | 2,935.65 | 3,106.52 | 0.87 | 0.56 | 5.16 | |
| 10,566.00 | 7.56 | 221.06 | 9,823.41 | -1,019.69 | 2,932.76 | 3,104.94 | 0.92 | -0.26 | 6.68 | |
| Last SDI Production MWD Survey | | | | | | | | | | |
| 10,623.00 | 7.56 | 221.06 | 9,879.91 | -1,025.34 | 2,927.84 | 3,102.18 | 0.00 | 0.00 | 0.00 | |
| Projection to TD - NR 44-3 PBHL | | | | | | | | | | |

| Design Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 213.00 | 212.95 | -3.28 | 2.44 | First SDI Gyro MWD Survey | |
| 489.00 | 487.38 | -14.20 | 26.92 | Last SDI Gyro MWD Survey | |
| 559.00 | 556.02 | -19.40 | 39.61 | First SDI Surface MWD Survey | |
| 1,069.00 | 1,031.91 | -73.81 | 209.26 | Last SDI Surface MWD Survey | |
| 1,181.00 | 1,130.20 | -90.87 | 260.17 | First SDI Production MWD Survey | |
| 10,566.00 | 9,823.41 | -1,019.69 | 2,932.76 | Last SDI Production MWD Survey | |
| 10,623.00 | 9,879.91 | -1,025.34 | 2,927.84 | Projection to TD | |

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