



Directional Survey Certification

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

| | |
|----------------------------|------------------|
| Operator | WPX Energy |
| Well Name & No. | GM 542-8 |
| County & State | Garfield, CO |
| SDI Job No. | 420616DEFK364471 |
| 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 113 feet to a measured depth of 6,961 feet is true and correct as determined from all available records.



Signature

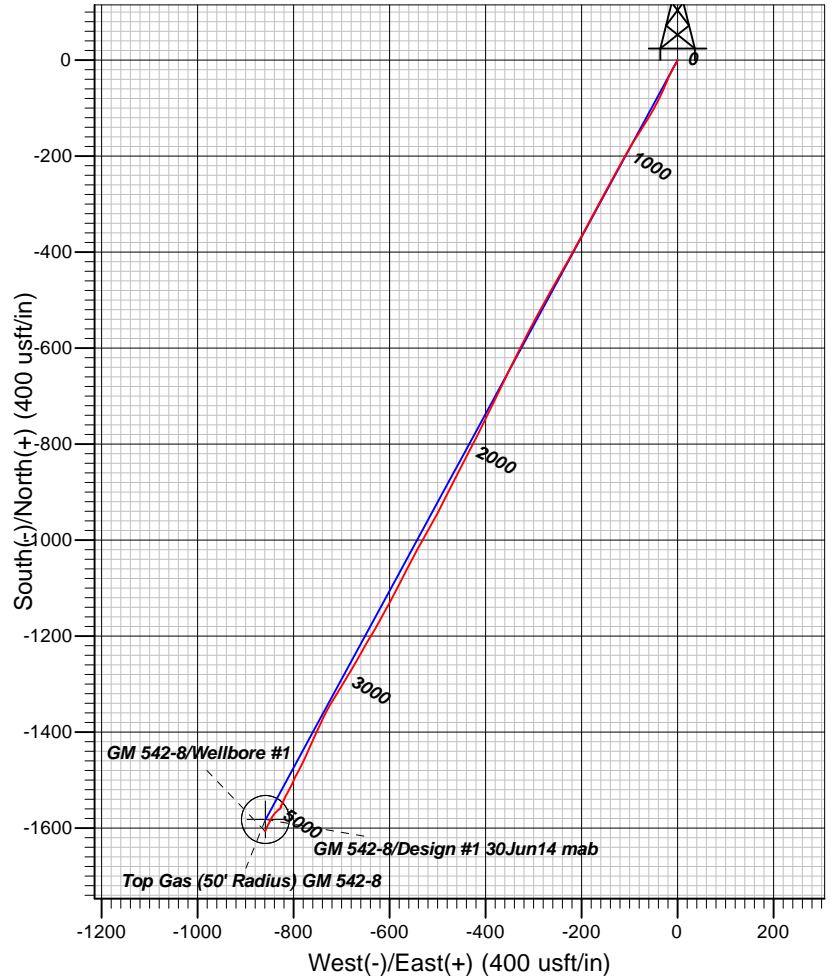
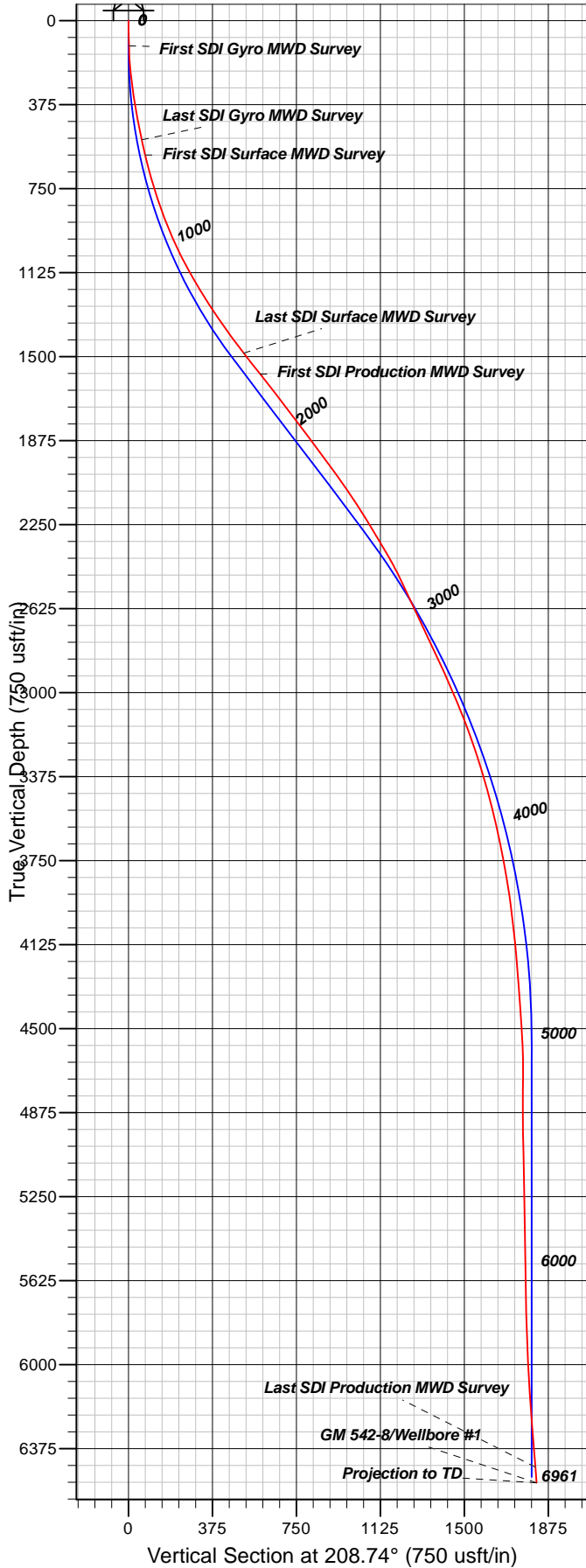
8-Jun-16

Date

Janie Collins
Colorado District Well Planner
Scientific Drilling International



Company: WPX Energy Rocky Mountain, LLC
Project: Garfield County, CO NAD83
Site: MV 16-9 Pad
Well: GM 542-8
Wellbore: Wellbore #1
Design: Wellbore #1



Well Details: GM 542-8

| | | | | |
|-------|-------|--|------------------------|------|
| +N/-S | +E/-W | TVD Reference: KB @ 6111.00usft (HP 318) | Ground Level: 6087.00 | Slot |
| 0.00 | 0.00 | Northing 1601950.30 | Easting 2260326.60 | A07 |
| | | Latitude 39.4568406 | Longitude -108.1199977 | |

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well GM 542-8 - Slot A07, True North
Vertical (TVD) Reference: KB @ 6111.00usft (HP 318)
Section (VS) Reference: Slot - A07(0.00N, 0.00E)
Measured Depth Reference: KB @ 6111.00usft (HP 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

13:09, June 08 2016
Created By: Janie Collins



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|------------------|--------------------------------|-------------------------------------|---------------------------|
| Company: | WPX Energy Rocky Mountain, LLC | Local Co-ordinate Reference: | Well GM 542-8 - Slot A07 |
| Project: | Garfield County, CO NAD83 | TVD Reference: | KB @ 6111.00usft (HP 318) |
| Site: | MV 16-9 Pad | MD Reference: | KB @ 6111.00usft (HP 318) |
| Well: | GM 542-8 | 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 | MV 16-9 Pad | | | |
| Site Position: | | Northing: | 1,601,987.30 usft | Latitude: 39.4569442 |
| From: Map | | Easting: | 2,260,352.30 usft | Longitude: -108.1199106 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.20 in | Grid Convergence: -1.65 ° |

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|-----------------------------|---------------------|-----------|----------------------------|-------------------|
| Well | GM 542-8 - Slot A07 | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,601,950.29 usft |
| | +E/-W | 0.00 usft | Easting: | 2,260,326.60 usft |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | 0.00 usft |
| | | | Ground Level: | 6,087.00 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | BGGM2016 | 5/19/2016 | 9.76 | 65.59 | 51,621 |

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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 | 208.74 |

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|-----------------------|------------------|--|------------------|------------------------------------|
| Survey Program | Date | 6/8/2016 | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 113.00 | 537.00 | Survey #1 - Gyro MWD (Wellbore #1) | SDI Gyro MWD 104 | SDI Gyro MWD Error Model Ver 1.0.4 |
| 607.00 | 1,603.00 | Survey #2 - Surface MWD (Wellbore #1) | MWD SDI | MWD - Standard ver 1.0.1 |
| 1,721.00 | 6,961.00 | Survey #3 - Production MWD (Wellbore #1) | 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 |
| 113.00 | 1.85 | 192.66 | 112.98 | -1.78 | -0.40 | 1.75 | 1.64 | 1.64 | 0.00 |
| First SDI Gyro MWD Survey | | | | | | | | | |
| 173.00 | 3.43 | 208.74 | 172.92 | -4.30 | -1.48 | 4.48 | 2.88 | 2.63 | 26.80 |
| 264.00 | 6.77 | 215.07 | 263.54 | -11.08 | -5.87 | 12.53 | 3.72 | 3.67 | 6.96 |
| 355.00 | 9.15 | 206.37 | 353.66 | -21.95 | -12.16 | 25.10 | 2.92 | 2.62 | -9.56 |
| 446.00 | 10.73 | 203.91 | 443.29 | -36.18 | -18.81 | 40.77 | 1.80 | 1.74 | -2.70 |
| 537.00 | 12.40 | 202.24 | 532.44 | -52.97 | -25.94 | 58.92 | 1.87 | 1.84 | -1.84 |

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|------------------|--------------------------------|-------------------------------------|---------------------------|
| Company: | WPX Energy Rocky Mountain, LLC | Local Co-ordinate Reference: | Well GM 542-8 - Slot A07 |
| Project: | Garfield County, CO NAD83 | TVD Reference: | KB @ 6111.00usft (HP 318) |
| Site: | MV 16-9 Pad | MD Reference: | KB @ 6111.00usft (HP 318) |
| Well: | GM 542-8 | 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) |
| Last SDI Gyro MWD Survey | | | | | | | | | |
| 607.00 | 13.37 | 204.27 | 600.68 | -67.30 | -32.11 | 74.45 | 1.53 | 1.39 | 2.90 |
| First SDI Surface MWD Survey | | | | | | | | | |
| 698.00 | 15.41 | 207.90 | 688.82 | -87.58 | -42.10 | 97.04 | 2.45 | 2.24 | 3.99 |
| 788.00 | 17.95 | 210.04 | 775.03 | -110.16 | -54.64 | 122.86 | 2.90 | 2.82 | 2.38 |
| 879.00 | 20.38 | 212.23 | 860.98 | -135.71 | -70.11 | 152.70 | 2.78 | 2.67 | 2.41 |
| 971.00 | 22.80 | 212.66 | 946.52 | -164.27 | -88.28 | 186.48 | 2.64 | 2.63 | 0.47 |
| 1,065.00 | 26.10 | 209.21 | 1,032.08 | -197.66 | -108.20 | 225.34 | 3.82 | 3.51 | -3.67 |
| 1,159.00 | 29.00 | 209.01 | 1,115.41 | -235.64 | -129.35 | 268.81 | 3.09 | 3.09 | -0.21 |
| 1,254.00 | 31.14 | 208.08 | 1,197.62 | -277.46 | -152.08 | 316.41 | 2.31 | 2.25 | -0.98 |
| 1,348.00 | 33.12 | 207.86 | 1,277.22 | -321.61 | -175.52 | 366.39 | 2.11 | 2.11 | -0.23 |
| 1,442.00 | 34.70 | 208.65 | 1,355.23 | -367.80 | -200.36 | 418.83 | 1.74 | 1.68 | 0.84 |
| 1,537.00 | 36.95 | 209.63 | 1,432.25 | -416.36 | -227.44 | 474.43 | 2.44 | 2.37 | 1.03 |
| 1,603.00 | 37.99 | 210.07 | 1,484.64 | -451.18 | -247.43 | 514.57 | 1.63 | 1.58 | 0.67 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 1,721.00 | 38.35 | 208.26 | 1,577.41 | -514.85 | -282.96 | 587.48 | 1.00 | 0.31 | -1.53 |
| First SDI Production MWD Survey | | | | | | | | | |
| 1,815.00 | 37.91 | 207.89 | 1,651.35 | -566.07 | -310.27 | 645.52 | 0.53 | -0.47 | -0.39 |
| 1,910.00 | 37.15 | 206.61 | 1,726.69 | -617.51 | -336.78 | 703.37 | 1.15 | -0.80 | -1.35 |
| 2,004.00 | 36.69 | 205.12 | 1,801.84 | -668.31 | -361.41 | 759.76 | 1.07 | -0.49 | -1.59 |
| 2,098.00 | 38.14 | 206.28 | 1,876.50 | -719.77 | -386.18 | 816.79 | 1.72 | 1.54 | 1.23 |
| 2,192.00 | 36.13 | 206.87 | 1,951.44 | -770.52 | -411.56 | 873.50 | 2.17 | -2.14 | 0.63 |
| 2,286.00 | 35.66 | 206.74 | 2,027.59 | -819.71 | -436.42 | 928.58 | 0.51 | -0.50 | -0.14 |
| 2,381.00 | 33.82 | 207.67 | 2,105.65 | -867.86 | -461.16 | 982.69 | 2.02 | -1.94 | 0.98 |
| 2,475.00 | 33.35 | 206.53 | 2,183.96 | -914.15 | -484.85 | 1,034.66 | 0.84 | -0.50 | -1.21 |
| 2,569.00 | 30.92 | 208.95 | 2,263.55 | -958.40 | -508.08 | 1,084.64 | 2.92 | -2.59 | 2.57 |
| 2,663.00 | 30.50 | 209.07 | 2,344.37 | -1,000.39 | -531.36 | 1,132.65 | 0.45 | -0.45 | 0.13 |
| 2,757.00 | 28.94 | 208.23 | 2,426.00 | -1,041.28 | -553.71 | 1,179.25 | 1.72 | -1.66 | -0.89 |
| 2,851.00 | 25.79 | 206.29 | 2,509.48 | -1,079.66 | -573.53 | 1,222.43 | 3.48 | -3.35 | -2.06 |
| 2,946.00 | 24.96 | 207.99 | 2,595.31 | -1,115.89 | -592.09 | 1,263.12 | 1.16 | -0.87 | 1.79 |
| 3,040.00 | 24.60 | 208.68 | 2,680.66 | -1,150.57 | -610.79 | 1,302.52 | 0.49 | -0.38 | 0.73 |
| 3,134.00 | 25.18 | 210.49 | 2,765.93 | -1,184.96 | -630.33 | 1,342.07 | 1.02 | 0.62 | 1.93 |
| 3,229.00 | 24.71 | 210.33 | 2,852.06 | -1,219.52 | -650.61 | 1,382.12 | 0.50 | -0.49 | -0.17 |
| 3,323.00 | 24.77 | 209.53 | 2,937.44 | -1,253.61 | -670.23 | 1,421.45 | 0.36 | 0.06 | -0.85 |
| 3,417.00 | 23.15 | 210.53 | 3,023.33 | -1,286.66 | -689.33 | 1,459.61 | 1.78 | -1.72 | 1.06 |
| 3,512.00 | 21.12 | 212.83 | 3,111.33 | -1,317.13 | -708.10 | 1,495.35 | 2.32 | -2.14 | 2.42 |
| 3,606.00 | 19.52 | 209.28 | 3,199.48 | -1,345.06 | -724.96 | 1,527.95 | 2.15 | -1.70 | -3.78 |
| 3,701.00 | 17.94 | 205.59 | 3,289.45 | -1,372.10 | -739.04 | 1,558.43 | 2.08 | -1.66 | -3.88 |
| 3,795.00 | 16.11 | 204.53 | 3,379.33 | -1,397.03 | -750.71 | 1,585.90 | 1.97 | -1.95 | -1.13 |
| 3,889.00 | 15.43 | 204.27 | 3,469.79 | -1,420.29 | -761.27 | 1,611.37 | 0.73 | -0.72 | -0.28 |
| 3,984.00 | 13.31 | 202.86 | 3,561.81 | -1,441.89 | -770.71 | 1,634.85 | 2.26 | -2.23 | -1.48 |
| 4,079.00 | 11.56 | 206.99 | 3,654.58 | -1,460.45 | -779.28 | 1,655.25 | 2.07 | -1.84 | 4.35 |
| 4,173.00 | 11.04 | 208.58 | 3,746.76 | -1,476.75 | -787.86 | 1,673.66 | 0.64 | -0.55 | 1.69 |
| 4,268.00 | 9.49 | 206.21 | 3,840.23 | -1,491.76 | -795.67 | 1,690.58 | 1.69 | -1.63 | -2.49 |

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| Site: | MV 16-9 Pad | MD Reference: | KB @ 6111.00usft (HP 318) |
| Well: | GM 542-8 | 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) |
| 4,362.00 | 7.65 | 200.90 | 3,933.18 | -1,504.56 | -801.33 | 1,704.52 | 2.13 | -1.96 | -5.65 |
| 4,456.00 | 6.58 | 211.23 | 4,026.46 | -1,515.01 | -806.35 | 1,716.10 | 1.77 | -1.14 | 10.99 |
| 4,550.00 | 5.82 | 208.43 | 4,119.91 | -1,523.81 | -811.41 | 1,726.25 | 0.87 | -0.81 | -2.98 |
| 4,645.00 | 4.57 | 205.94 | 4,214.52 | -1,531.45 | -815.36 | 1,734.85 | 1.34 | -1.32 | -2.62 |
| 4,739.00 | 4.27 | 204.05 | 4,308.24 | -1,538.01 | -818.42 | 1,742.07 | 0.35 | -0.32 | -2.01 |
| 4,834.00 | 4.28 | 206.04 | 4,402.97 | -1,544.43 | -821.42 | 1,749.14 | 0.16 | 0.01 | 2.09 |
| 4,928.00 | 3.43 | 207.90 | 4,496.76 | -1,550.07 | -824.28 | 1,755.46 | 0.91 | -0.90 | 1.98 |
| 5,022.00 | 2.42 | 210.16 | 4,590.64 | -1,554.27 | -826.59 | 1,760.25 | 1.08 | -1.07 | 2.40 |
| 5,117.00 | 0.51 | 84.51 | 4,685.61 | -1,555.96 | -827.18 | 1,762.02 | 2.89 | -2.01 | -132.26 |
| 5,211.00 | 1.01 | 58.45 | 4,779.60 | -1,555.49 | -826.06 | 1,761.06 | 0.63 | 0.53 | -27.72 |
| 5,306.00 | 0.41 | 188.00 | 4,874.60 | -1,555.39 | -825.39 | 1,760.65 | 1.38 | -0.63 | 136.37 |
| 5,400.00 | 1.08 | 212.24 | 4,968.59 | -1,556.47 | -825.91 | 1,761.85 | 0.77 | 0.71 | 25.79 |
| 5,494.00 | 1.44 | 212.14 | 5,062.57 | -1,558.22 | -827.01 | 1,763.92 | 0.38 | 0.38 | -0.11 |
| 5,588.00 | 1.91 | 226.61 | 5,156.53 | -1,560.29 | -828.78 | 1,766.59 | 0.67 | 0.50 | 15.39 |
| 5,683.00 | 0.70 | 250.24 | 5,251.50 | -1,561.58 | -830.47 | 1,768.53 | 1.37 | -1.27 | 24.87 |
| 5,777.00 | 0.41 | 268.09 | 5,345.50 | -1,561.78 | -831.35 | 1,769.13 | 0.36 | -0.31 | 18.99 |
| 5,871.00 | 0.45 | 244.34 | 5,439.49 | -1,561.95 | -832.02 | 1,769.60 | 0.19 | 0.04 | -25.27 |
| 5,966.00 | 0.76 | 211.82 | 5,534.49 | -1,562.65 | -832.69 | 1,770.53 | 0.47 | 0.33 | -34.23 |
| 6,060.00 | 1.44 | 224.19 | 5,628.47 | -1,564.03 | -833.84 | 1,772.29 | 0.76 | 0.72 | 13.16 |
| 6,155.00 | 1.76 | 223.61 | 5,723.43 | -1,565.94 | -835.68 | 1,774.86 | 0.34 | 0.34 | -0.61 |
| 6,249.00 | 2.11 | 225.00 | 5,817.38 | -1,568.21 | -837.90 | 1,777.91 | 0.38 | 0.37 | 1.48 |
| 6,344.00 | 2.26 | 221.27 | 5,912.31 | -1,570.85 | -840.37 | 1,781.42 | 0.22 | 0.16 | -3.93 |
| 6,438.00 | 2.76 | 212.60 | 6,006.22 | -1,574.15 | -842.81 | 1,785.49 | 0.67 | 0.53 | -9.22 |
| 6,532.00 | 3.45 | 210.19 | 6,100.08 | -1,578.50 | -845.45 | 1,790.57 | 0.75 | 0.73 | -2.56 |
| 6,627.00 | 3.88 | 208.54 | 6,194.89 | -1,583.80 | -848.42 | 1,796.64 | 0.47 | 0.45 | -1.74 |
| 6,721.00 | 4.40 | 204.98 | 6,288.64 | -1,589.86 | -851.47 | 1,803.42 | 0.62 | 0.55 | -3.79 |
| 6,815.00 | 4.60 | 201.50 | 6,382.35 | -1,596.64 | -854.37 | 1,810.76 | 0.36 | 0.21 | -3.70 |
| 6,891.00 | 4.48 | 205.33 | 6,458.12 | -1,602.15 | -856.76 | 1,816.75 | 0.43 | -0.16 | 5.04 |
| Last SDI Production MWD Survey | | | | | | | | | |
| 6,961.00 | 4.48 | 205.33 | 6,527.90 | -1,607.10 | -859.10 | 1,822.20 | 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) | |
| 113.00 | 112.98 | -1.78 | -0.40 | First SDI Gyro MWD Survey |
| 537.00 | 532.44 | -52.97 | -25.94 | Last SDI Gyro MWD Survey |
| 607.00 | 600.68 | -67.30 | -32.11 | First SDI Surface MWD Survey |
| 1,603.00 | 1,484.64 | -451.18 | -247.43 | Last SDI Surface MWD Survey |
| 1,721.00 | 1,577.41 | -514.85 | -282.96 | First SDI Production MWD Survey |
| 6,891.00 | 6,458.12 | -1,602.15 | -856.76 | Last SDI Production MWD Survey |
| 6,961.00 | 6,527.90 | -1,607.10 | -859.10 | Projection to TD |



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|------------------|--------------------------------|-------------------------------------|---------------------------|
| Company: | WPX Energy Rocky Mountain, LLC | Local Co-ordinate Reference: | Well GM 542-8 - Slot A07 |
| Project: | Garfield County, CO NAD83 | TVD Reference: | KB @ 6111.00usft (HP 318) |
| Site: | MV 16-9 Pad | MD Reference: | KB @ 6111.00usft (HP 318) |
| Well: | GM 542-8 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Grand Junction District |

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