



Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	HighPoint Resources
Well Name & No.	Critter Creek 16-6302BE
API #	05-123-47295
County & State	Weld County, CO
SDI Job #	OP.016265
Rig	Savanna 802
Survey Date	5-Feb-2019

I, Seth M. Burstad, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 7859.5 feet to a measured depth of 17861 feet is true and correct as determined from all available records.

Seth Burstad

Signature

6-Feb-2019

Date

Seth M. Burstad

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



Project: Weld County, CO NAD 83
Site: Critter Creek 16 SW Pad
Well: Critter Creek 16-6302BE
Wellbore: OH
Design: OH



WELL DETAILS: Critter Creek 16-6302BE

GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802) 5267.40
Northing 1578526.06 Easting 3291673.85 Latitude 40° 54' 59.968 N Longitude 104° 26' 40.805 W

Design: OH (Critter Creek 16-6302BE/OH)

Created By: Seth Burstad

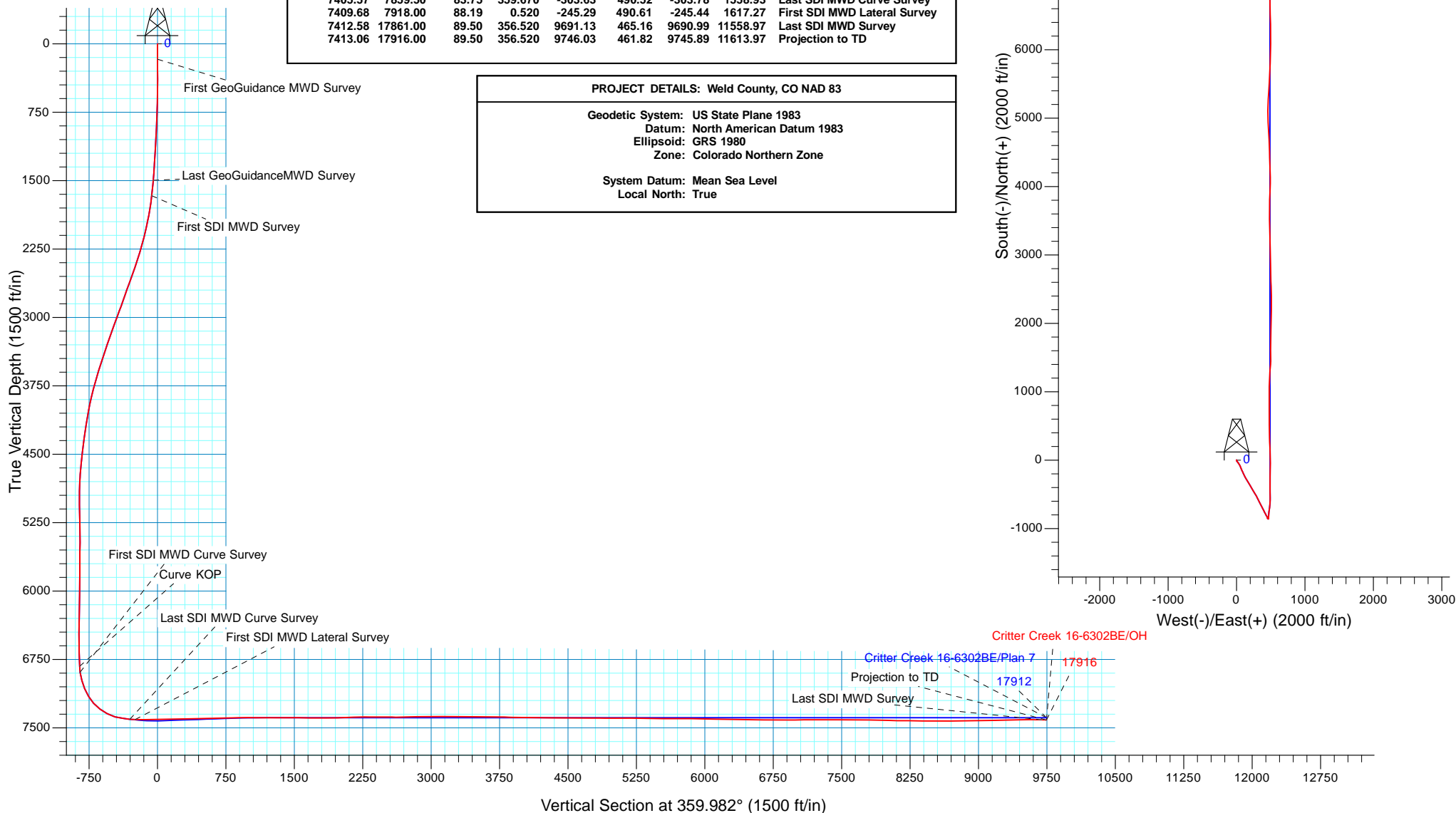
ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V	Sect	Departure	Annotation
169.50	169.50	0.13	281.820	0.04	-0.19	0.04	0.19		First GeoGuidance MWD Survey
1495.65	1497.50	6.15	146.160	-46.25	28.27	-46.26	57.76		Last GeoGuidanceMWD Survey
1665.43	1668.50	7.51	149.220	-63.46	39.09	-63.47	78.09		First SDI MWD Survey
6827.57	6973.50	3.43	1.983	-855.60	466.40	-855.75	1007.04		Curve KOP
6890.13	7036.50	9.63	1.090	-848.44	466.56	-848.59	1012.48		First SDI MWD Curve Survey
7405.57	7859.50	83.75	359.670	-303.63	490.52	-303.78	1558.93		Last SDI MWD Curve Survey
7409.68	7918.00	88.19	0.520	-245.29	490.61	-245.44	1617.27		First SDI MWD Lateral Survey
7412.58	17861.00	89.50	356.520	9691.13	465.16	9690.99	11558.97		Last SDI MWD Survey
7413.06	17916.00	89.50	356.520	9746.03	461.82	9745.89	11613.97		Projection to TD

PROJECT DETAILS: Weld County, CO NAD 83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

System Datum: Mean Sea Level
Local North: True





HighPoint Resources

Weld County, CO NAD 83

Critter Creek 16 SW Pad

Critter Creek 16-6302BE

OH

Design: OH

Standard Survey Report

06 February, 2019



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-6302BE
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Site:	Critter Creek 16 SW Pad	MD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Well:	Critter Creek 16-6302BE	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Project	Weld County, CO NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Critter Creek 16 SW Pad, Site Center : Critter Creek 16-6104B				
Site Position:		Northing:	1,578,526.67 usft	Latitude:	40° 54' 59.969 N
From:	Lat/Long	Easting:	3,291,718.90 usft	Longitude:	104° 26' 40.218 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.68 °

Well	Critter Creek 16-6302BE, 575' FSL 785' FWL Sec 16 T11N R63W					
Well Position	+N/-S	0.00 ft	Northing:	1,578,526.06 usft	Latitude:	40° 54' 59.968 N
	+E/-W	0.00 ft	Easting:	3,291,673.86 usft	Longitude:	104° 26' 40.805 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,267.40 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/19/2018	8.27	67.17	52,722

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.982	

Survey Program	Date	2/6/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
169.50	1,497.50	Survey #1 - Surface (OH)	OWSG MWD	OWSG MWD - Standard	
1,668.50	7,859.50	Survey #2 - Intermediate (OH)	OWSG MWD	OWSG MWD - Standard	
7,918.00	17,916.00	Survey #3 - Lateral (OH)	OWSG MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
169.50	0.13	281.820	169.50	0.04	-0.19	0.04	0.08	0.08	0.00	
First GeoGuidance MWD Survey										
213.50	0.40	330.990	213.50	0.18	-0.31	0.18	0.75	0.61	111.75	
257.50	0.48	335.430	257.50	0.49	-0.46	0.49	0.20	0.18	10.09	
301.50	0.44	85.600	301.50	0.67	-0.37	0.67	1.72	-0.09	250.39	
345.50	0.26	147.040	345.50	0.60	-0.15	0.60	0.89	-0.41	139.64	
390.50	0.18	281.900	390.50	0.52	-0.16	0.52	0.91	-0.18	299.69	
434.50	0.48	61.910	434.50	0.63	-0.07	0.63	1.43	0.68	318.20	

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-6302BE
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Site:	Critter Creek 16 SW Pad	MD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Well:	Critter Creek 16-6302BE	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
478.50	0.31	82.920	478.49	0.73	0.21	0.73	0.50	-0.39	47.75
520.50	0.35	119.310	520.49	0.68	0.44	0.68	0.50	0.10	86.64
565.50	1.19	163.470	565.49	0.16	0.69	0.16	2.16	1.87	98.13
609.50	1.80	177.050	609.48	-0.97	0.86	-0.97	1.59	1.39	30.86
653.50	1.93	167.510	653.45	-2.38	1.05	-2.38	0.76	0.30	-21.68
698.50	1.67	152.480	698.43	-3.70	1.52	-3.70	1.19	-0.58	-33.40
742.50	1.94	164.530	742.41	-4.99	2.01	-4.99	1.06	0.61	27.39
786.50	2.25	176.890	786.38	-6.57	2.26	-6.57	1.24	0.70	28.09
830.50	1.89	159.430	830.35	-8.11	2.56	-8.11	1.64	-0.82	-39.68
875.50	3.08	162.020	875.31	-9.95	3.20	-9.95	2.66	2.64	5.76
919.50	2.99	153.580	919.25	-12.11	4.07	-12.11	1.03	-0.20	-19.18
963.50	3.00	153.000	963.19	-14.16	5.10	-14.16	0.07	0.02	-1.32
995.50	2.50	149.630	995.15	-15.51	5.84	-15.51	1.64	-1.56	-10.53
1,027.50	3.13	144.170	1,027.11	-16.82	6.70	-16.82	2.14	1.97	-17.06
1,058.50	3.43	144.620	1,058.06	-18.26	7.73	-18.26	0.97	0.97	1.45
1,090.50	3.25	151.560	1,090.01	-19.84	8.72	-19.84	1.38	-0.56	21.69
1,122.50	3.60	150.020	1,121.95	-21.51	9.65	-21.51	1.13	1.09	-4.81
1,153.50	3.87	142.380	1,152.88	-23.18	10.78	-23.18	1.82	0.87	-24.65
1,185.50	4.17	145.850	1,184.80	-25.00	12.09	-25.00	1.21	0.94	10.84
1,217.50	4.61	137.980	1,216.71	-26.91	13.61	-26.92	2.33	1.38	-24.59
1,248.50	4.70	138.770	1,247.61	-28.79	15.28	-28.80	0.36	0.29	2.55
1,280.50	4.53	139.300	1,279.50	-30.74	16.96	-30.74	0.55	-0.53	1.66
1,312.50	4.66	145.150	1,311.40	-32.76	18.53	-32.77	1.52	0.41	18.28
1,343.50	4.97	145.890	1,342.29	-34.91	20.00	-34.91	1.02	1.00	2.39
1,375.50	4.75	140.880	1,374.18	-37.08	21.62	-37.09	1.49	-0.69	-15.66
1,407.50	5.51	141.440	1,406.05	-39.31	23.41	-39.32	2.38	2.38	1.75
1,438.50	5.10	147.300	1,436.92	-41.64	25.08	-41.64	2.19	-1.32	18.90
1,470.50	5.32	143.960	1,468.78	-44.03	26.72	-44.04	1.17	0.69	-10.44
1,497.50	6.15	146.160	1,495.65	-46.25	28.27	-46.26	3.18	3.07	8.15
Last GeoGuidanceMWD Survey									
1,668.50	7.51	149.220	1,665.43	-63.46	39.09	-63.47	0.82	0.80	1.79
First SDI MWD Survey									
1,763.50	9.07	150.800	1,759.44	-75.33	45.92	-75.34	1.66	1.64	1.66
1,858.50	10.80	155.970	1,853.01	-89.99	53.20	-90.01	2.05	1.82	5.44
1,951.50	12.73	158.870	1,944.05	-107.51	60.44	-107.53	2.17	2.08	3.12
2,045.50	14.14	157.520	2,035.48	-127.78	68.56	-127.80	1.54	1.50	-1.44
2,140.50	15.54	155.480	2,127.31	-150.08	78.28	-150.11	1.57	1.47	-2.15
2,234.50	17.01	155.710	2,217.54	-174.07	89.16	-174.10	1.57	1.56	0.24
2,328.50	18.77	155.420	2,306.99	-200.36	101.11	-200.39	1.87	1.87	-0.31
2,423.50	20.31	152.770	2,396.52	-228.92	115.01	-228.96	1.87	1.62	-2.79
2,517.50	21.22	151.360	2,484.41	-258.36	130.63	-258.40	1.10	0.97	-1.50
2,611.50	22.85	149.750	2,571.54	-289.06	147.98	-289.10	1.85	1.73	-1.71
2,705.50	23.77	148.780	2,657.87	-321.02	167.00	-321.08	1.06	0.98	-1.03
2,800.50	22.51	146.580	2,745.23	-352.58	186.94	-352.64	1.61	-1.33	-2.32

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,896.50	22.20	149.530	2,834.01	-383.55	206.25	-383.61	1.21	-0.32	3.07
2,990.50	23.51	149.850	2,920.63	-415.07	224.68	-415.14	1.40	1.39	0.34
3,081.50	23.27	149.890	3,004.15	-446.31	242.81	-446.39	0.26	-0.26	0.04
3,176.50	22.48	149.750	3,091.68	-478.24	261.38	-478.32	0.83	-0.83	-0.15
3,269.50	21.87	147.790	3,177.80	-508.25	279.57	-508.34	1.03	-0.66	-2.11
3,363.50	21.34	154.240	3,265.21	-538.47	296.33	-538.57	2.59	-0.56	6.86
3,456.50	21.40	154.190	3,351.82	-568.99	311.07	-569.08	0.07	0.06	-0.05
3,549.50	20.94	153.740	3,438.54	-599.16	325.81	-599.27	0.52	-0.49	-0.48
3,643.50	19.40	151.730	3,526.78	-627.98	340.64	-628.09	1.80	-1.64	-2.14
3,737.50	17.51	153.490	3,615.94	-654.39	354.35	-654.50	2.10	-2.01	1.87
3,831.50	17.14	152.040	3,705.67	-679.28	367.15	-679.39	0.60	-0.39	-1.54
3,926.50	17.10	151.390	3,796.46	-703.90	380.41	-704.02	0.21	-0.04	-0.68
4,019.50	15.27	153.770	3,885.78	-726.89	392.37	-727.02	2.09	-1.97	2.56
4,114.50	12.44	154.360	3,978.00	-747.34	402.33	-747.47	2.98	-2.98	0.62
4,208.50	10.86	152.990	4,070.06	-764.36	410.73	-764.49	1.71	-1.68	-1.46
4,303.50	9.82	153.950	4,163.52	-779.61	418.35	-779.74	1.11	-1.09	1.01
4,397.50	9.57	154.070	4,256.18	-793.84	425.29	-793.98	0.27	-0.27	0.13
4,491.50	9.26	149.270	4,348.91	-807.37	432.57	-807.51	0.90	-0.33	-5.11
4,585.50	7.94	144.380	4,441.85	-819.15	440.22	-819.29	1.60	-1.40	-5.20
4,678.50	6.86	152.030	4,534.08	-829.28	446.56	-829.42	1.57	-1.16	8.23
4,772.50	5.39	168.970	4,627.55	-838.57	450.04	-838.71	2.46	-1.56	18.02
4,866.50	5.28	170.020	4,721.14	-847.16	451.64	-847.31	0.16	-0.12	1.12
4,960.50	2.76	151.320	4,814.91	-853.41	453.47	-853.55	2.99	-2.68	-19.89
5,054.50	1.23	84.320	4,908.86	-855.30	455.56	-855.44	2.71	-1.63	-71.28
5,149.50	1.08	60.840	5,003.84	-854.76	457.36	-854.90	0.52	-0.16	-24.72
5,243.50	1.40	55.080	5,097.82	-853.67	459.07	-853.81	0.36	0.34	-6.13
5,338.50	1.69	54.960	5,192.78	-852.20	461.17	-852.35	0.31	0.31	-0.13
5,432.50	1.85	49.110	5,286.74	-850.41	463.45	-850.56	0.26	0.17	-6.22
5,526.50	0.14	194.550	5,380.72	-849.53	464.57	-849.68	2.09	-1.82	154.72
5,621.50	0.32	156.380	5,475.72	-849.89	464.65	-850.03	0.24	0.19	-40.18
5,716.50	0.78	211.020	5,570.72	-850.68	464.42	-850.83	0.68	0.48	57.52
5,810.50	0.27	268.530	5,664.71	-851.24	463.87	-851.38	0.72	-0.54	61.18
5,905.50	0.57	298.200	5,759.71	-851.02	463.23	-851.16	0.38	0.32	31.23
5,999.50	0.55	287.560	5,853.71	-850.66	462.39	-850.81	0.11	-0.02	-11.32
6,094.50	1.63	174.370	5,948.69	-851.87	462.09	-852.01	2.02	1.14	-119.15
6,189.50	1.65	178.160	6,043.65	-854.58	462.26	-854.73	0.12	0.02	3.99
6,282.50	1.13	176.380	6,136.63	-856.83	462.36	-856.98	0.56	-0.56	-1.91
6,374.50	0.57	138.990	6,228.62	-858.08	462.72	-858.23	0.83	-0.61	-40.64
6,468.50	0.64	132.090	6,322.61	-858.79	463.42	-858.93	0.11	0.07	-7.34
6,563.50	0.48	108.390	6,417.61	-859.27	464.19	-859.42	0.29	-0.17	-24.95
6,657.50	0.86	55.690	6,511.60	-859.00	465.15	-859.14	0.73	0.40	-56.06
6,752.50	0.50	43.990	6,606.59	-858.30	466.02	-858.44	0.40	-0.38	-12.32
6,847.50	0.69	357.910	6,701.59	-857.43	466.29	-857.57	0.52	0.20	-48.51

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,941.50	0.29	17.170	6,795.59	-856.63	466.34	-856.78	0.45	-0.43	20.49
6,973.50	3.43	1.983	6,827.57	-855.60	466.40	-855.75	9.84	9.81	-47.46
Curve KOP									
7,036.50	9.63	1.090	6,890.13	-848.44	466.56	-848.59	9.84	9.84	-1.42
First SDI MWD Curve Survey									
7,130.50	15.51	7.150	6,981.84	-828.09	468.28	-828.24	6.40	6.26	6.45
7,224.50	22.01	2.100	7,070.80	-797.98	470.49	-798.13	7.12	6.91	-5.37
7,318.50	31.21	8.280	7,154.77	-756.18	474.65	-756.33	10.21	9.79	6.57
7,412.50	41.73	5.500	7,230.26	-700.78	481.18	-700.94	11.33	11.19	-2.96
7,507.50	53.95	7.790	7,293.91	-630.99	489.44	-631.15	12.99	12.86	2.41
7,602.50	60.60	357.320	7,345.34	-551.36	492.72	-551.52	11.61	7.00	-11.02
7,696.50	75.32	359.840	7,380.52	-464.50	490.67	-464.66	15.85	15.66	2.68
7,790.50	83.41	0.120	7,397.85	-372.19	490.64	-372.35	8.61	8.61	0.30
7,859.50	83.75	359.670	7,405.57	-303.63	490.52	-303.78	0.81	0.49	-0.65
Last SDI MWD Curve Survey									
7,918.00	88.19	0.520	7,409.68	-245.29	490.61	-245.44	7.73	7.59	1.45
First SDI MWD Lateral Survey									
8,013.00	90.77	1.160	7,410.54	-150.31	492.01	-150.46	2.80	2.72	0.67
8,108.00	91.17	1.220	7,408.93	-55.34	493.98	-55.50	0.43	0.42	0.06
8,203.00	90.44	358.200	7,407.60	39.63	493.50	39.48	3.27	-0.77	-3.18
8,298.00	91.58	357.340	7,405.92	134.54	489.80	134.39	1.50	1.20	-0.91
8,352.00	91.24	356.980	7,404.60	188.46	487.13	188.31	0.92	-0.63	-0.67
8,394.00	90.94	356.510	7,403.80	230.39	484.74	230.23	1.33	-0.71	-1.12
8,430.00	90.87	357.990	7,403.23	266.34	483.02	266.19	4.12	-0.19	4.11
8,488.00	91.01	358.680	7,402.28	324.31	481.33	324.16	1.21	0.24	1.19
8,584.00	91.98	358.970	7,399.77	420.25	479.36	420.10	1.05	1.01	0.30
8,679.00	91.01	359.680	7,397.29	515.21	478.25	515.06	1.27	-1.02	0.75
8,775.00	91.37	358.820	7,395.30	611.18	476.99	611.03	0.97	0.38	-0.90
8,869.00	91.54	359.630	7,392.91	705.14	475.72	704.99	0.88	0.18	0.86
8,965.00	90.47	0.080	7,391.23	801.13	475.47	800.98	1.21	-1.11	0.47
9,060.00	91.11	1.310	7,389.92	896.11	476.63	895.96	1.46	0.67	1.29
9,156.00	90.03	0.180	7,388.96	992.09	477.88	991.94	1.63	-1.13	-1.18
9,251.00	89.80	0.440	7,389.10	1,087.09	478.39	1,086.94	0.37	-0.24	0.27
9,347.00	89.90	2.340	7,389.36	1,183.06	480.72	1,182.91	1.98	0.10	1.98
9,443.00	89.77	5.130	7,389.63	1,278.84	486.97	1,278.69	2.91	-0.14	2.91
9,538.00	90.00	5.120	7,389.82	1,373.46	495.46	1,373.31	0.24	0.24	-0.01
9,634.00	90.03	0.020	7,389.80	1,469.33	499.76	1,469.18	5.31	0.03	-5.31
9,730.00	89.60	357.370	7,390.11	1,565.30	497.57	1,565.14	2.80	-0.45	-2.76
9,826.00	89.80	0.600	7,390.61	1,661.27	495.87	1,661.12	3.37	0.21	3.36
9,922.00	89.73	0.890	7,391.00	1,757.26	497.12	1,757.11	0.31	-0.07	0.30
10,017.00	89.53	2.110	7,391.62	1,852.23	499.61	1,852.07	1.30	-0.21	1.28
10,113.00	91.71	3.090	7,390.58	1,948.11	503.96	1,947.96	2.49	2.27	1.02
10,208.00	92.15	1.110	7,387.38	2,042.99	507.44	2,042.83	2.13	0.46	-2.08
10,304.00	91.48	0.090	7,384.34	2,138.94	508.45	2,138.78	1.27	-0.70	-1.06

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-6302BE
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Site:	Critter Creek 16 SW Pad	MD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Well:	Critter Creek 16-6302BE	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,399.00	90.47	359.720	7,382.72	2,233.92	508.29	2,233.76	1.13	-1.06	-0.39
10,495.00	90.60	359.600	7,381.83	2,329.92	507.72	2,329.76	0.18	0.14	-0.13
10,590.00	89.77	358.730	7,381.52	2,424.90	506.33	2,424.74	1.27	-0.87	-0.92
10,685.00	89.09	358.480	7,382.46	2,519.87	504.02	2,519.71	0.76	-0.72	-0.26
10,780.00	90.23	358.630	7,383.03	2,614.84	501.63	2,614.68	1.21	1.20	0.16
10,876.00	91.21	358.520	7,381.82	2,710.80	499.24	2,710.64	1.03	1.02	-0.11
10,970.00	91.11	359.540	7,379.92	2,804.76	497.65	2,804.61	1.09	-0.11	1.09
11,064.00	91.07	358.670	7,378.13	2,898.73	496.18	2,898.58	0.93	-0.04	-0.93
11,160.00	90.47	359.280	7,376.84	2,994.71	494.46	2,994.55	0.89	-0.63	0.64
11,256.00	90.44	358.930	7,376.08	3,090.69	492.96	3,090.54	0.37	-0.03	-0.36
11,352.00	89.06	358.300	7,376.50	3,186.66	490.64	3,186.51	1.58	-1.44	-0.66
11,447.00	89.36	357.660	7,377.81	3,281.59	487.30	3,281.44	0.74	0.32	-0.67
11,542.00	89.83	358.110	7,378.48	3,376.53	483.79	3,376.37	0.68	0.49	0.47
11,637.00	89.09	359.370	7,379.37	3,471.50	481.70	3,471.35	1.54	-0.78	1.33
11,733.00	89.80	359.580	7,380.30	3,567.49	480.82	3,567.34	0.77	0.74	0.22
11,827.00	90.20	1.570	7,380.30	3,661.48	481.76	3,661.33	2.16	0.43	2.12
11,922.00	88.66	0.950	7,381.25	3,756.45	483.85	3,756.29	1.75	-1.62	-0.65
12,018.00	87.65	2.120	7,384.34	3,852.36	486.42	3,852.21	1.61	-1.05	1.22
12,058.00	87.92	2.590	7,385.89	3,892.30	488.07	3,892.14	1.35	0.68	1.18
12,113.00	88.56	2.000	7,387.57	3,947.23	490.27	3,947.07	1.58	1.16	-1.07
12,209.00	89.80	1.650	7,388.95	4,043.16	493.32	4,043.01	1.34	1.29	-0.36
12,303.00	89.70	358.230	7,389.36	4,137.15	493.23	4,136.99	3.64	-0.11	-3.64
12,399.00	89.43	357.250	7,390.09	4,233.07	489.44	4,232.92	1.06	-0.28	-1.02
12,494.00	90.57	358.060	7,390.09	4,327.99	485.55	4,327.84	1.47	1.20	0.85
12,589.00	88.59	359.100	7,390.78	4,422.95	483.20	4,422.80	2.35	-2.08	1.09
12,683.00	89.60	0.390	7,392.27	4,516.94	482.78	4,516.78	1.74	1.07	1.37
12,779.00	89.87	356.550	7,392.71	4,612.88	480.22	4,612.73	4.01	0.28	-4.00
12,875.00	89.70	355.140	7,393.07	4,708.63	473.26	4,708.48	1.48	-0.18	-1.47
12,915.00	90.00	356.620	7,393.18	4,748.52	470.39	4,748.37	3.78	0.75	3.70
12,970.00	89.73	356.800	7,393.31	4,803.43	467.23	4,803.28	0.59	-0.49	0.33
13,005.00	89.83	357.760	7,393.44	4,838.39	465.57	4,838.24	2.76	0.29	2.74
13,065.00	89.66	357.540	7,393.71	4,898.34	463.11	4,898.19	0.46	-0.28	-0.37
13,128.00	89.83	357.420	7,393.99	4,961.28	460.34	4,961.13	0.33	0.27	-0.19
13,160.00	89.97	358.320	7,394.04	4,993.26	459.15	4,993.11	2.85	0.44	2.81
13,187.00	89.80	358.650	7,394.10	5,020.25	458.44	5,020.10	1.37	-0.63	1.22
13,223.00	89.93	359.080	7,394.18	5,056.24	457.73	5,056.10	1.25	0.36	1.19
13,255.00	89.63	0.310	7,394.31	5,088.24	457.55	5,088.09	3.96	-0.94	3.84
13,287.00	90.20	359.760	7,394.35	5,120.24	457.57	5,120.09	2.48	1.78	-1.72
13,351.00	90.03	3.150	7,394.23	5,184.21	459.20	5,184.06	5.30	-0.27	5.30
13,446.00	89.60	3.680	7,394.53	5,279.04	464.86	5,278.89	0.72	-0.45	0.56
13,542.00	88.05	2.810	7,396.50	5,374.86	470.29	5,374.71	1.85	-1.61	-0.91
13,637.00	89.36	2.870	7,398.65	5,469.72	475.00	5,469.57	1.38	1.38	0.06
13,732.00	90.13	2.700	7,399.07	5,564.60	479.61	5,564.45	0.83	0.81	-0.18

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-6302BE
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Site:	Critter Creek 16 SW Pad	MD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Well:	Critter Creek 16-6302BE	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,828.00	90.81	3.270	7,398.28	5,660.47	484.61	5,660.32	0.92	0.71	0.59	
13,923.00	88.83	2.070	7,398.58	5,755.36	489.04	5,755.20	2.44	-2.08	-1.26	
14,018.00	90.74	2.750	7,398.94	5,850.27	493.03	5,850.11	2.13	2.01	0.72	
14,113.00	89.23	1.080	7,398.96	5,945.21	496.21	5,945.05	2.37	-1.59	-1.76	
14,209.00	87.89	1.150	7,401.38	6,041.16	498.07	6,041.00	1.40	-1.40	0.07	
14,304.00	88.29	0.920	7,404.54	6,136.09	499.79	6,135.93	0.49	0.42	-0.24	
14,400.00	87.42	357.970	7,408.14	6,232.01	498.86	6,231.85	3.20	-0.91	-3.07	
14,494.00	89.03	359.020	7,411.05	6,325.93	496.39	6,325.77	2.04	1.71	1.12	
14,589.00	89.46	359.060	7,412.30	6,420.90	494.80	6,420.75	0.45	0.45	0.04	
14,684.00	90.13	358.690	7,412.64	6,515.88	492.94	6,515.73	0.81	0.71	-0.39	
14,779.00	90.07	358.800	7,412.47	6,610.86	490.85	6,610.71	0.13	-0.06	0.12	
14,874.00	89.90	358.860	7,412.50	6,705.84	488.92	6,705.69	0.19	-0.18	0.06	
14,969.00	89.83	358.150	7,412.72	6,800.81	486.44	6,800.65	0.75	-0.07	-0.75	
15,065.00	89.83	357.350	7,413.01	6,896.73	482.67	6,896.58	0.83	0.00	-0.83	
15,078.00	89.87	357.120	7,413.04	6,909.72	482.04	6,909.57	1.80	0.31	-1.77	
15,160.00	90.13	359.060	7,413.04	6,991.67	479.31	6,991.52	2.39	0.32	2.37	
15,255.00	90.23	358.800	7,412.74	7,086.65	477.53	7,086.50	0.29	0.11	-0.27	
15,351.00	89.83	0.070	7,412.69	7,182.64	476.59	7,182.49	1.39	-0.42	1.32	
15,447.00	90.37	0.690	7,412.52	7,278.64	477.22	7,278.49	0.86	0.56	0.65	
15,542.00	90.34	359.060	7,411.94	7,373.64	477.02	7,373.49	1.72	-0.03	-1.72	
15,638.00	91.37	358.300	7,410.50	7,469.60	474.81	7,469.45	1.33	1.07	-0.79	
15,733.00	88.39	359.420	7,410.70	7,564.57	472.92	7,564.42	3.35	-3.14	1.18	
15,829.00	88.42	359.700	7,413.37	7,660.53	472.18	7,660.38	0.29	0.03	0.29	
15,925.00	89.06	1.150	7,415.49	7,756.50	472.89	7,756.35	1.65	0.67	1.51	
16,020.00	89.53	0.820	7,416.65	7,851.48	474.52	7,851.33	0.60	0.49	-0.35	
16,115.00	90.90	0.650	7,416.30	7,946.46	475.74	7,946.32	1.45	1.44	-0.18	
16,210.00	86.80	1.080	7,418.20	8,041.41	477.18	8,041.26	4.34	-4.32	0.45	
16,306.00	89.26	2.140	7,421.50	8,137.31	479.87	8,137.16	2.79	2.56	1.10	
16,402.00	90.47	3.230	7,421.73	8,233.20	484.37	8,233.05	1.70	1.26	1.14	
16,497.00	89.06	1.930	7,422.12	8,328.10	488.64	8,327.95	2.02	-1.48	-1.37	
16,593.00	88.86	0.950	7,423.86	8,424.05	491.06	8,423.90	1.04	-0.21	-1.02	
16,688.00	89.50	0.910	7,425.22	8,519.03	492.60	8,518.88	0.67	0.67	-0.04	
16,783.00	89.73	1.530	7,425.86	8,614.01	494.62	8,613.85	0.70	0.24	0.65	
16,878.00	90.23	0.220	7,425.89	8,708.99	496.07	8,708.84	1.48	0.53	-1.38	
16,973.00	90.54	359.640	7,425.26	8,803.99	495.96	8,803.83	0.69	0.33	-0.61	
17,067.00	90.97	359.650	7,424.02	8,897.98	495.37	8,897.82	0.46	0.46	0.01	
17,162.00	91.61	358.820	7,421.88	8,992.95	494.11	8,992.79	1.10	0.67	-0.87	
17,257.00	91.31	358.710	7,419.46	9,087.89	492.06	9,087.74	0.34	-0.32	-0.12	
17,352.00	91.68	358.380	7,416.98	9,182.83	489.65	9,182.68	0.52	0.39	-0.35	
17,447.00	90.90	358.280	7,414.84	9,277.76	486.88	9,277.61	0.83	-0.82	-0.11	
17,542.00	91.17	357.410	7,413.12	9,372.68	483.31	9,372.53	0.96	0.28	-0.92	
17,636.00	90.74	357.040	7,411.56	9,466.56	478.76	9,466.41	0.60	-0.46	-0.39	
17,731.00	89.70	356.420	7,411.19	9,561.40	473.34	9,561.25	1.27	-1.09	-0.65	
17,826.00	89.13	356.340	7,412.16	9,656.21	467.34	9,656.06	0.61	-0.60	-0.08	

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-6302BE
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Site:	Critter Creek 16 SW Pad	MD Reference:	GL 5267.4' & KB 20' @ 5287.40ft (Savanna 802)
Well:	Critter Creek 16-6302BE	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
17,861.00	89.50	356.520	7,412.58	9,691.13	465.16	9,690.99	1.18	1.06	0.51
Last SDI MWD Survey									
17,916.00	89.50	356.520	7,413.06	9,746.03	461.82	9,745.89	0.00	0.00	0.00
Projection to TD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
169.50	169.50	0.04	-0.19	First GeoGuidance MWD Survey
1,497.50	1,495.65	-46.25	28.27	Last GeoGuidanceMWD Survey
1,668.50	1,665.43	-63.46	39.09	First SDI MWD Survey
6,973.50	6,827.57	-855.60	466.40	Curve KOP
7,036.50	6,890.13	-848.44	466.56	First SDI MWD Curve Survey
7,859.50	7,405.57	-303.63	490.52	Last SDI MWD Curve Survey
7,918.00	7,409.68	-245.29	490.61	First SDI MWD Lateral Survey
17,861.00	7,412.58	9,691.13	465.16	Last SDI MWD Survey
17,916.00	7,413.06	9,746.03	461.82	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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