



Survey Certification

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

Operator	HighPoint Resources
Well Name & No.	Critter Creek 15-6302B
API #	05-123-47303
County & State	Weld County, CO
SDI Job #	OP.013206
Rig	Cade 24
Survey Date	26-Sep-2018

I, Seth M. Burstad, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 1493 feet to a measured depth of 17727 feet is true and correct as determined from all available records.

Seth M. Burstad

Signature

27-Sep-2018

Date

Seth M. Burstad

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



Project: Weld County, CO NAD 83
Site: Critter Creek 15 SW
Well: Critter Creek 15-6302B
Wellbore: OH
Design: OH



WELL DETAILS: Critter Creek 15-6302B

Design: OH (Critter Creek 15-6302B/OH)

Created By: Seth Burstad

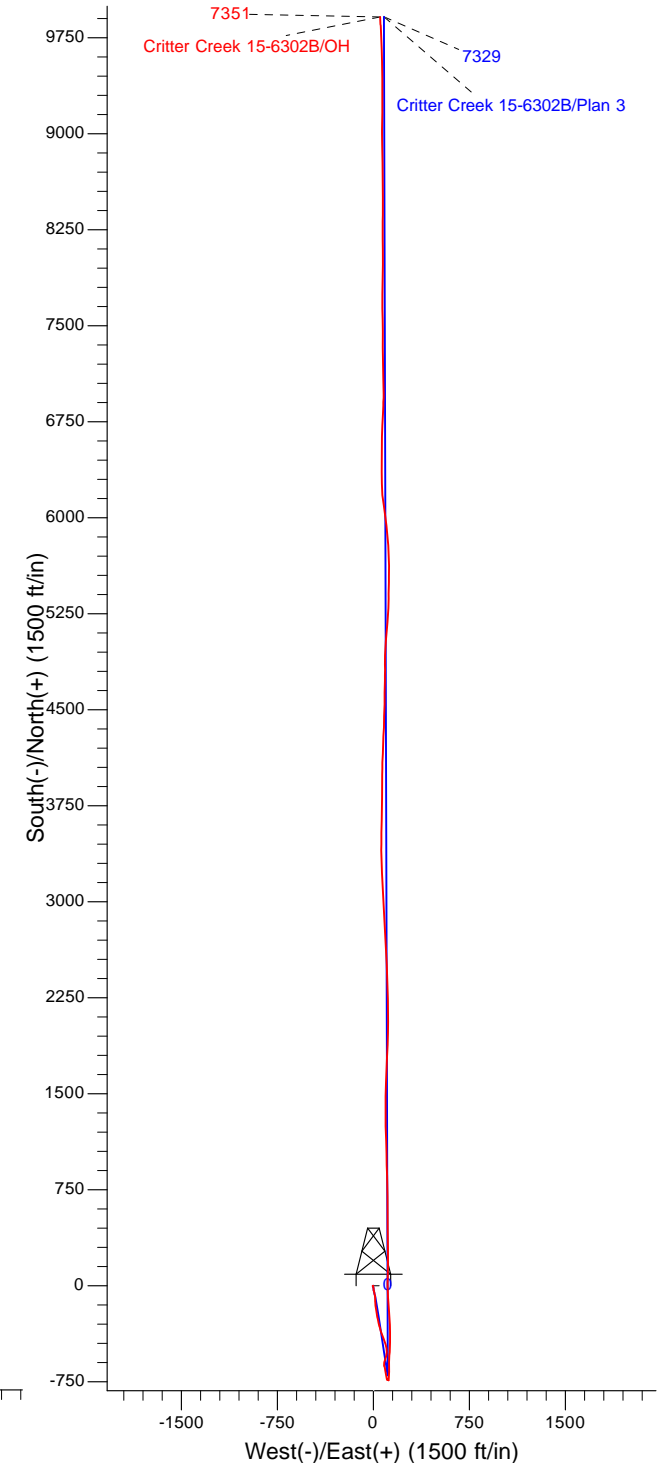
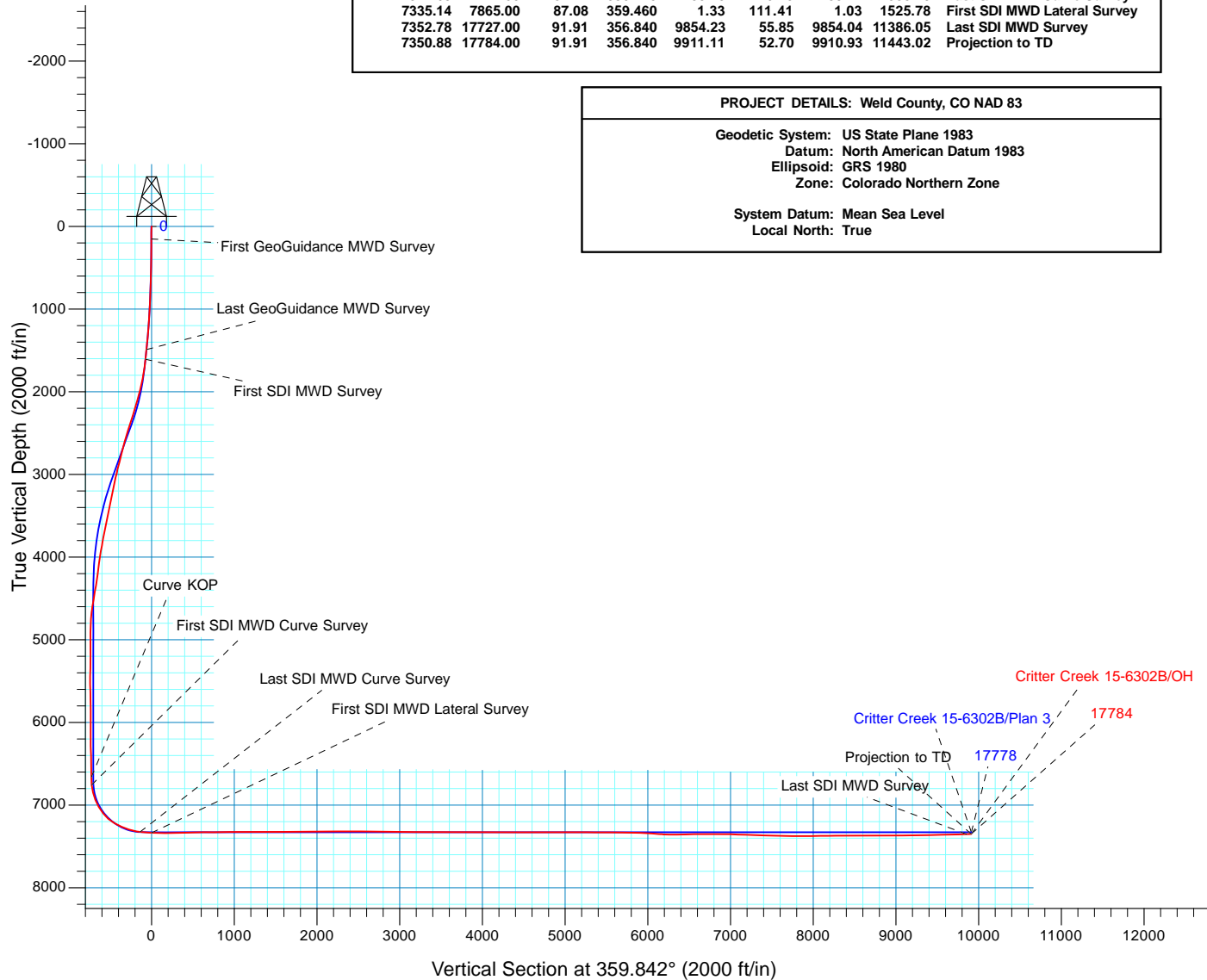
ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
152.99	153.00	1.05	243.200	-0.63	-1.25	-0.63	1.40	First GeoGuidance MWD Survey
1490.86	1493.00	5.93	166.910	-60.85	7.87	-60.87	66.20	Last GeoGuidance MWD Survey
1606.23	1609.00	6.06	169.990	-72.72	10.29	-72.75	78.32	First SDI MWD Survey
6660.24	6741.00	0.88	62.290	-727.15	119.22	-727.48	795.94	Curve KOP
6754.06	6835.00	5.78	3.800	-722.09	120.18	-722.42	801.40	First SDI MWD Curve Survey
7324.69	7724.00	84.42	356.220	-139.15	116.70	-139.47	1385.19	Last SDI MWD Curve Survey
7335.14	7865.00	87.08	359.460	1.33	111.41	1.03	1525.78	First SDI MWD Lateral Survey
7352.78	17727.00	91.91	356.840	9854.23	55.85	9854.04	11386.05	Last SDI MWD Survey
7350.88	17784.00	91.91	356.840	9911.11	52.70	9910.93	11443.02	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 15 SW

Critter Creek 15-6302B

OH

Design: OH

Standard Survey Report

27 September, 2018



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 15-6302B
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Site:	Critter Creek 15 SW	MD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Well:	Critter Creek 15-6302B	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 15 SW			
Site Position:		Northing:	1,578,441.59 usft	Latitude:	40° 54' 58.471 N
From:	Lat/Long	Easting:	3,297,253.35 usft	Longitude:	104° 25' 28.150 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.69 °

Well	Critter Creek 15-6302B, 400' FSL 1130' FWL Sec 15 T11N R63W					
Well Position	+N/-S	0.00 ft	Northing:	1,578,441.92 usft	Latitude:	40° 54' 58.471 N
	+E/-W	0.00 ft	Easting:	3,297,283.20 usft	Longitude:	104° 25' 27.761 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,242.30 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/17/2018	8.27	67.18	52,754

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	359.842	

Survey Program	Date	9/27/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
153.00	1,493.00	Survey #1 - Surface (OH)	OWSG MWD	OWSG MWD - Standard	
1,609.00	7,724.00	Survey #2 - Intermediate (OH)	OWSG MWD	OWSG MWD - Standard	
7,865.00	17,784.00	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	
153.00	1.05	243.200	152.99	-0.63	-1.25	-0.63	0.69	0.69	0.00	
First GeoGuidance MWD Survey										
197.00	1.23	252.560	196.98	-0.96	-2.06	-0.95	0.59	0.41	21.27	
240.00	1.24	257.170	239.97	-1.20	-2.96	-1.19	0.23	0.02	10.72	
284.00	1.05	265.660	283.96	-1.33	-3.82	-1.32	0.58	-0.43	19.30	
328.00	0.66	249.000	327.96	-1.45	-4.46	-1.44	1.04	-0.89	-37.86	
372.00	0.62	207.560	371.96	-1.76	-4.81	-1.74	1.03	-0.09	-94.18	
417.00	1.20	177.290	416.95	-2.44	-4.90	-2.43	1.63	1.29	-67.27	

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 15-6302B
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Site:	Critter Creek 15 SW	MD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Well:	Critter Creek 15-6302B	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)
461.00	1.30	172.210	460.94	-3.40	-4.81	-3.38	0.34	0.23	-11.55
505.00	1.37	172.120	504.93	-4.41	-4.67	-4.40	0.16	0.16	-0.20
549.00	1.80	151.880	548.91	-5.54	-4.27	-5.53	1.59	0.98	-46.00
594.00	2.07	154.340	593.89	-6.90	-3.59	-6.89	0.63	0.60	5.47
638.00	2.24	157.810	637.86	-8.41	-2.92	-8.40	0.49	0.39	7.89
682.00	2.07	166.160	681.82	-9.98	-2.40	-9.97	0.81	-0.39	18.98
726.00	2.11	164.550	725.79	-11.53	-2.00	-11.53	0.16	0.09	-3.66
771.00	1.80	164.980	770.77	-13.01	-1.59	-13.01	0.69	-0.69	0.96
815.00	1.67	155.260	814.75	-14.26	-1.14	-14.26	0.73	-0.30	-22.09
859.00	2.07	164.930	858.73	-15.61	-0.67	-15.61	1.15	0.91	21.98
904.00	2.33	163.090	903.69	-17.27	-0.19	-17.27	0.60	0.58	-4.09
935.00	2.35	160.810	934.67	-18.48	0.20	-18.48	0.31	0.06	-7.35
967.00	2.37	159.570	966.64	-19.72	0.65	-19.72	0.17	0.06	-3.88
999.00	2.81	171.390	998.61	-21.11	0.99	-21.11	2.16	1.38	36.94
1,030.00	3.15	180.370	1,029.56	-22.71	1.10	-22.72	1.86	1.10	28.97
1,062.00	3.21	184.580	1,061.52	-24.49	1.03	-24.49	0.75	0.19	13.16
1,094.00	3.52	184.180	1,093.46	-26.36	0.88	-26.36	0.97	0.97	-1.25
1,125.00	3.65	178.290	1,124.40	-28.29	0.84	-28.30	1.26	0.42	-19.00
1,157.00	3.96	171.820	1,156.33	-30.41	1.03	-30.41	1.65	0.97	-20.22
1,189.00	4.65	171.300	1,188.24	-32.78	1.38	-32.79	2.16	2.16	-1.63
1,221.00	5.19	165.550	1,220.12	-35.47	1.94	-35.47	2.28	1.69	-17.97
1,252.00	4.97	168.180	1,251.00	-38.14	2.57	-38.15	1.03	-0.71	8.48
1,284.00	4.88	162.210	1,282.88	-40.79	3.27	-40.80	1.63	-0.28	-18.66
1,316.00	5.41	164.630	1,314.75	-43.54	4.08	-43.55	1.79	1.66	7.56
1,347.00	5.84	168.800	1,345.60	-46.50	4.78	-46.51	1.91	1.39	13.45
1,379.00	5.80	167.700	1,377.44	-49.67	5.44	-49.69	0.37	-0.13	-3.44
1,411.00	5.67	168.760	1,409.28	-52.80	6.09	-52.82	0.52	-0.41	3.31
1,443.00	5.71	167.480	1,441.12	-55.91	6.74	-55.93	0.42	0.13	-4.00
1,493.00	5.93	166.910	1,490.86	-60.85	7.87	-60.87	0.45	0.44	-1.14
Last GeoGuidance MWD Survey									
1,609.00	6.06	169.990	1,606.23	-72.72	10.29	-72.75	0.30	0.11	2.66
First SDI MWD Survey									
1,700.00	7.16	175.230	1,696.62	-83.10	11.59	-83.13	1.38	1.21	5.76
1,792.00	9.39	176.190	1,787.66	-96.31	12.57	-96.34	2.43	2.42	1.04
1,883.00	12.46	177.990	1,877.00	-113.53	13.41	-113.56	3.39	3.37	1.98
1,974.00	13.95	175.170	1,965.59	-134.27	14.68	-134.31	1.78	1.64	-3.10
2,065.00	14.72	174.020	2,053.76	-156.70	16.80	-156.74	0.90	0.85	-1.26
2,156.00	15.99	169.820	2,141.51	-180.54	20.22	-180.59	1.85	1.40	-4.62
2,247.00	17.25	172.560	2,228.71	-206.25	24.19	-206.32	1.63	1.38	3.01
2,338.00	19.56	170.240	2,315.05	-234.65	28.52	-234.73	2.66	2.54	-2.55
2,432.00	16.88	166.020	2,404.33	-263.41	34.48	-263.50	3.18	-2.85	-4.49
2,525.00	17.71	167.750	2,493.13	-290.33	40.75	-290.44	1.05	0.89	1.86
2,619.00	16.55	167.390	2,582.96	-317.37	46.70	-317.50	1.24	-1.23	-0.38
2,712.00	14.55	159.390	2,672.56	-341.24	53.71	-341.38	3.15	-2.15	-8.60

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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)
2,806.00	15.25	162.760	2,763.40	-364.09	61.53	-364.26	1.18	0.74	3.59
2,899.00	15.44	160.710	2,853.08	-387.46	69.24	-387.65	0.62	0.20	-2.20
2,993.00	14.70	158.020	2,943.85	-410.33	77.84	-410.54	1.08	-0.79	-2.86
3,087.00	13.36	164.280	3,035.05	-431.85	85.25	-432.08	2.15	-1.43	6.66
3,180.00	11.87	161.150	3,125.80	-451.24	91.25	-451.49	1.76	-1.60	-3.37
3,274.00	12.47	164.260	3,217.69	-470.16	97.13	-470.43	0.95	0.64	3.31
3,369.00	11.49	164.320	3,310.62	-489.14	102.47	-489.42	1.03	-1.03	0.06
3,463.00	11.74	179.130	3,402.72	-507.72	105.14	-508.01	3.17	0.27	15.76
3,557.00	13.07	193.280	3,494.54	-527.64	102.84	-527.92	3.52	1.41	15.05
3,651.00	11.92	194.040	3,586.31	-547.40	98.05	-547.67	1.24	-1.22	0.81
3,744.00	11.41	193.490	3,677.39	-565.66	93.57	-565.92	0.56	-0.55	-0.59
3,839.00	10.71	193.870	3,770.63	-583.37	89.26	-583.61	0.74	-0.74	0.40
3,932.00	9.60	194.340	3,862.17	-599.27	85.27	-599.50	1.20	-1.19	0.51
4,026.00	10.71	179.470	3,954.71	-615.60	83.41	-615.83	3.02	1.18	-15.82
4,120.00	7.46	166.170	4,047.53	-630.27	84.95	-630.50	4.09	-3.46	-14.15
4,214.00	6.57	156.370	4,140.83	-641.12	88.56	-641.36	1.58	-0.95	-10.43
4,308.00	9.48	173.810	4,233.91	-653.75	91.56	-654.00	4.00	3.10	18.55
4,401.00	9.21	171.740	4,325.68	-668.73	93.45	-668.98	0.46	-0.29	-2.23
4,495.00	9.56	170.440	4,418.42	-683.87	95.83	-684.13	0.44	0.37	-1.38
4,589.00	9.72	168.860	4,511.09	-699.35	98.66	-699.62	0.33	0.17	-1.68
4,683.00	8.88	171.040	4,603.86	-714.30	101.32	-714.58	0.97	-0.89	2.32
4,777.00	6.34	164.670	4,697.02	-726.48	103.82	-726.76	2.84	-2.70	-6.78
4,870.00	3.37	143.690	4,789.68	-733.64	106.80	-733.93	3.67	-3.19	-22.56
4,964.00	1.05	121.150	4,883.61	-736.31	109.17	-736.61	2.59	-2.47	-23.98
5,058.00	1.38	108.080	4,977.59	-737.11	110.99	-737.41	0.46	0.35	-13.90
5,151.00	1.60	100.070	5,070.56	-737.68	113.33	-737.99	0.33	0.24	-8.61
5,245.00	2.29	99.890	5,164.50	-738.23	116.47	-738.55	0.73	0.73	-0.19
5,338.00	1.42	109.510	5,257.45	-738.94	119.39	-739.26	0.99	-0.94	10.34
5,432.00	0.90	264.940	5,351.44	-739.39	119.75	-739.72	2.41	-0.55	165.35
5,526.00	0.75	213.370	5,445.44	-739.97	118.68	-740.29	0.78	-0.16	-54.86
5,619.00	0.97	314.890	5,538.43	-739.92	117.79	-740.24	1.44	0.24	109.16
5,712.00	0.94	320.570	5,631.42	-738.78	116.74	-739.10	0.11	-0.03	6.11
5,806.00	1.26	339.290	5,725.40	-737.21	115.89	-737.53	0.51	0.34	19.91
5,899.00	0.89	345.580	5,818.38	-735.56	115.35	-735.87	0.42	-0.40	6.76
5,993.00	0.62	342.860	5,912.38	-734.37	115.01	-734.68	0.29	-0.29	-2.89
6,086.00	0.60	245.520	6,005.37	-734.09	114.42	-734.40	0.99	-0.02	-104.67
6,180.00	0.44	174.410	6,099.37	-734.65	114.01	-734.96	0.66	-0.17	-75.65
6,274.00	0.38	207.120	6,193.37	-735.29	113.90	-735.60	0.25	-0.06	34.80
6,367.00	2.10	19.290	6,286.35	-733.95	114.33	-734.26	2.66	1.85	185.13
6,461.00	1.88	27.950	6,380.29	-730.96	115.62	-731.28	0.40	-0.23	9.21
6,555.00	1.07	37.610	6,474.26	-728.91	116.88	-729.23	0.90	-0.86	10.28
6,647.00	0.86	57.990	6,566.25	-727.86	117.99	-728.18	0.43	-0.23	22.15
6,741.00	0.88	62.290	6,660.24	-727.15	119.22	-727.48	0.07	0.02	4.57

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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)
Curve KOP									
6,835.00	5.78	3.800	6,754.06	-722.09	120.18	-722.42	5.72	5.21	-62.22
First SDI MWD Curve Survey									
6,930.00	13.34	5.370	6,847.67	-706.38	121.52	-706.71	7.96	7.96	1.65
7,023.00	21.10	2.250	6,936.44	-678.93	123.18	-679.27	8.40	8.34	-3.35
7,117.00	29.97	357.940	7,021.18	-638.48	123.00	-638.81	9.64	9.44	-4.59
7,211.00	39.44	2.120	7,098.38	-585.05	123.27	-585.38	10.38	10.07	4.45
7,306.00	47.35	4.100	7,167.36	-519.94	126.89	-520.29	8.45	8.33	2.08
7,399.00	61.21	0.570	7,221.53	-444.69	129.75	-445.05	15.21	14.90	-3.80
7,493.00	65.58	0.070	7,263.62	-360.67	130.21	-361.02	4.67	4.65	-0.53
7,587.00	74.49	356.090	7,295.69	-272.48	127.17	-272.83	10.28	9.48	-4.23
7,681.00	77.93	354.890	7,318.10	-181.49	119.99	-181.82	3.86	3.66	-1.28
7,724.00	84.42	356.220	7,324.69	-139.15	116.70	-139.47	15.40	15.09	3.09
Last SDI MWD Curve Survey									
7,865.00	87.08	359.460	7,335.14	1.33	111.41	1.03	2.97	1.89	2.30
First SDI MWD Lateral Survey									
7,959.00	89.50	1.610	7,337.95	95.28	112.29	94.97	3.44	2.57	2.29
8,053.00	89.93	359.980	7,338.42	189.26	113.59	188.95	1.79	0.46	-1.73
8,147.00	90.97	359.920	7,337.68	283.26	113.51	282.94	1.11	1.11	-0.06
8,240.00	91.58	358.780	7,335.61	376.23	112.45	375.92	1.39	0.66	-1.23
8,334.00	91.41	359.660	7,333.16	470.19	111.17	469.88	0.95	-0.18	0.94
8,427.00	90.77	0.030	7,331.39	563.17	110.92	562.86	0.79	-0.69	0.40
8,521.00	91.31	359.520	7,329.68	657.15	110.55	656.84	0.79	0.57	-0.54
8,615.00	90.50	358.620	7,328.20	751.12	109.03	750.82	1.29	-0.86	-0.96
8,710.00	91.07	358.400	7,326.89	846.08	106.56	845.79	0.64	0.60	-0.23
8,804.00	90.13	358.250	7,325.91	940.04	103.81	939.75	1.01	-1.00	-0.16
8,898.00	91.24	359.520	7,324.79	1,034.01	101.98	1,033.72	1.79	1.18	1.35
8,992.00	89.80	357.540	7,323.93	1,127.97	99.57	1,127.69	2.60	-1.53	-2.11
9,085.00	89.66	357.930	7,324.37	1,220.89	95.89	1,220.62	0.45	-0.15	0.42
9,179.00	90.40	359.700	7,324.32	1,314.87	93.95	1,314.60	2.04	0.79	1.88
9,273.00	89.93	359.840	7,324.05	1,408.87	93.57	1,408.60	0.52	-0.50	0.15
9,367.00	90.10	2.040	7,324.03	1,502.85	95.12	1,502.58	2.35	0.18	2.34
9,461.00	90.30	2.470	7,323.70	1,596.78	98.81	1,596.50	0.50	0.21	0.46
9,555.00	90.03	1.910	7,323.43	1,690.71	102.41	1,690.42	0.66	-0.29	-0.60
9,648.00	89.77	2.560	7,323.59	1,783.63	106.03	1,783.34	0.75	-0.28	0.70
9,743.00	89.97	2.690	7,323.81	1,878.53	110.38	1,878.22	0.25	0.21	0.14
9,837.00	89.87	0.860	7,323.94	1,972.49	113.30	1,972.17	1.95	-0.11	-1.95
9,931.00	91.04	359.860	7,323.19	2,066.48	113.89	2,066.16	1.64	1.24	-1.06
10,025.00	90.94	0.140	7,321.57	2,160.46	113.89	2,160.14	0.32	-0.11	0.30
10,118.00	91.54	359.520	7,319.55	2,253.44	113.61	2,253.12	0.93	0.65	-0.67
10,212.00	90.00	357.470	7,318.29	2,347.39	111.14	2,347.08	2.73	-1.64	-2.18
10,306.00	89.83	356.640	7,318.43	2,441.27	106.31	2,440.96	0.90	-0.18	-0.88
10,400.00	89.73	357.710	7,318.79	2,535.15	101.68	2,534.86	1.14	-0.11	1.14
10,494.00	89.29	356.910	7,319.59	2,629.04	97.27	2,628.76	0.97	-0.47	-0.85

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 15-6302B
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Site:	Critter Creek 15 SW	MD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Well:	Critter Creek 15-6302B	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)	
10,585.00	89.06	357.490	7,320.91	2,719.92	92.82	2,719.66	0.69	-0.25	0.64	
10,675.00	90.81	357.720	7,321.01	2,809.84	89.06	2,809.58	1.96	1.94	0.26	
10,766.00	88.79	356.160	7,321.33	2,900.70	84.20	2,900.46	2.80	-2.22	-1.71	
10,858.00	88.76	356.650	7,323.29	2,992.50	78.44	2,992.27	0.53	-0.03	0.53	
10,949.00	88.29	357.390	7,325.63	3,083.35	73.71	3,083.13	0.96	-0.52	0.81	
11,041.00	88.79	356.400	7,327.98	3,175.18	68.73	3,174.98	1.21	0.54	-1.08	
11,132.00	89.56	357.710	7,329.29	3,266.05	64.05	3,265.86	1.67	0.85	1.44	
11,224.00	90.10	359.610	7,329.56	3,358.02	61.90	3,357.83	2.15	0.59	2.07	
11,315.00	90.27	0.700	7,329.27	3,449.02	62.15	3,448.83	1.21	0.19	1.20	
11,406.00	90.91	0.670	7,328.33	3,540.00	63.23	3,539.82	0.70	0.70	-0.03	
11,497.00	89.40	0.170	7,328.08	3,631.00	63.90	3,630.81	1.75	-1.66	-0.55	
11,588.00	90.20	1.590	7,328.40	3,721.98	65.30	3,721.79	1.79	0.88	1.56	
11,679.00	90.07	1.350	7,328.19	3,812.95	67.63	3,812.75	0.30	-0.14	-0.26	
11,770.00	89.56	359.240	7,328.48	3,903.95	68.10	3,903.74	2.39	-0.56	-2.32	
11,861.00	89.50	1.940	7,329.23	3,994.93	69.04	3,994.73	2.97	-0.07	2.97	
11,953.00	90.03	0.300	7,329.61	4,086.91	70.84	4,086.70	1.87	0.58	-1.78	
12,044.00	90.44	3.420	7,329.23	4,177.85	73.79	4,177.63	3.46	0.45	3.43	
12,135.00	89.16	2.390	7,329.55	4,268.73	78.40	4,268.50	1.81	-1.41	-1.13	
12,226.00	89.90	1.610	7,330.30	4,359.67	81.58	4,359.43	1.18	0.81	-0.86	
12,317.00	91.24	1.570	7,329.39	4,450.63	84.10	4,450.38	1.47	1.47	-0.04	
12,408.00	89.77	1.040	7,328.59	4,541.60	86.17	4,541.34	1.72	-1.62	-0.58	
12,499.00	89.90	0.330	7,328.85	4,632.59	87.26	4,632.33	0.79	0.14	-0.78	
12,591.00	90.13	1.950	7,328.83	4,724.57	89.09	4,724.30	1.78	0.25	1.76	
12,681.00	89.90	0.690	7,328.80	4,814.54	91.17	4,814.27	1.42	-0.26	-1.40	
12,773.00	90.00	359.590	7,328.88	4,906.54	91.39	4,906.27	1.20	0.11	-1.20	
12,863.00	89.87	3.360	7,328.99	4,996.49	93.71	4,996.22	4.19	-0.14	4.19	
12,953.00	89.83	6.500	7,329.22	5,086.15	101.44	5,085.85	3.49	-0.04	3.49	
13,045.00	89.66	3.560	7,329.63	5,177.78	109.51	5,177.46	3.20	-0.18	-3.20	
13,135.00	89.93	2.910	7,329.95	5,267.64	114.59	5,267.30	0.78	0.30	-0.72	
13,226.00	89.19	0.870	7,330.65	5,358.58	117.59	5,358.24	2.38	-0.81	-2.24	
13,317.00	89.73	2.010	7,331.51	5,449.55	119.87	5,449.20	1.39	0.59	1.25	
13,408.00	89.80	0.290	7,331.88	5,540.53	121.70	5,540.17	1.89	0.08	-1.89	
13,500.00	89.60	358.940	7,332.36	5,632.52	121.08	5,632.16	1.48	-0.22	-1.47	
13,591.00	89.26	357.690	7,333.27	5,723.47	118.41	5,723.13	1.42	-0.37	-1.37	
13,682.00	89.87	357.030	7,333.96	5,814.37	114.21	5,814.04	0.99	0.67	-0.73	
13,773.00	87.75	352.510	7,335.85	5,904.95	105.92	5,904.63	5.49	-2.33	-4.97	
13,864.00	86.14	352.350	7,340.70	5,995.02	93.95	5,994.74	1.78	-1.77	-0.18	
13,955.00	85.43	351.370	7,347.39	6,084.86	81.10	6,084.61	1.33	-0.78	-1.08	
14,046.00	86.51	354.910	7,353.79	6,174.97	70.27	6,174.75	4.06	1.19	3.89	
14,137.00	89.33	359.200	7,357.09	6,265.76	65.60	6,265.55	5.64	3.10	4.71	
14,228.00	90.84	358.820	7,356.96	6,356.74	64.03	6,356.54	1.71	1.66	-0.42	
14,320.00	91.44	0.940	7,355.13	6,448.72	63.83	6,448.52	2.39	0.65	2.30	
14,412.00	90.64	1.020	7,353.46	6,540.69	65.41	6,540.48	0.87	-0.87	0.09	

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 15-6302B
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Site:	Critter Creek 15 SW	MD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Well:	Critter Creek 15-6302B	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)
14,503.00	90.80	0.530	7,352.31	6,631.67	66.64	6,631.46	0.57	0.18	-0.54
14,594.00	89.60	3.350	7,351.99	6,722.61	69.72	6,722.39	3.37	-1.32	3.10
14,685.00	89.97	3.160	7,352.34	6,813.46	74.88	6,813.23	0.46	0.41	-0.21
14,776.00	90.40	1.180	7,352.04	6,904.39	78.33	6,904.15	2.23	0.47	-2.18
14,868.00	88.22	0.050	7,353.15	6,996.37	79.32	6,996.13	2.67	-2.37	-1.23
14,959.00	87.92	358.760	7,356.22	7,087.31	78.37	7,087.07	1.45	-0.33	-1.42
15,051.00	87.79	357.140	7,359.66	7,179.19	75.08	7,178.95	1.77	-0.14	-1.76
15,142.00	87.99	359.990	7,363.01	7,270.09	72.81	7,269.86	3.14	0.22	3.13
15,233.00	87.79	0.610	7,366.36	7,361.03	73.28	7,360.80	0.72	-0.22	0.68
15,324.00	88.96	359.660	7,368.94	7,451.99	73.50	7,451.75	1.66	1.29	-1.04
15,415.00	89.46	358.590	7,370.20	7,542.96	72.11	7,542.74	1.30	0.55	-1.18
15,506.00	88.19	358.520	7,372.06	7,633.91	69.81	7,633.69	1.40	-1.40	-0.08
15,598.00	88.86	0.920	7,374.43	7,725.88	69.37	7,725.66	2.71	0.73	2.61
15,689.00	90.13	1.880	7,375.23	7,816.84	71.59	7,816.62	1.75	1.40	1.05
15,781.00	90.10	359.240	7,375.05	7,908.83	72.49	7,908.60	2.87	-0.03	-2.87
15,872.00	90.47	1.070	7,374.59	7,999.82	72.73	7,999.59	2.05	0.41	2.01
15,962.00	90.70	358.630	7,373.68	8,089.81	72.50	8,089.58	2.72	0.26	-2.71
16,053.00	90.64	0.440	7,372.61	8,180.80	71.76	8,180.57	1.99	-0.07	1.99
16,144.00	90.77	359.500	7,371.49	8,271.79	71.71	8,271.56	1.04	0.14	-1.03
16,236.00	90.67	1.420	7,370.34	8,363.78	72.45	8,363.55	2.09	-0.11	2.09
16,327.00	90.17	359.770	7,369.67	8,454.77	73.40	8,454.53	1.89	-0.55	-1.81
16,418.00	89.83	359.180	7,369.67	8,545.76	72.56	8,545.53	0.75	-0.37	-0.65
16,509.00	89.73	359.230	7,370.02	8,636.75	71.30	8,636.52	0.12	-0.11	0.05
16,600.00	90.60	0.320	7,369.76	8,727.75	70.94	8,727.52	1.53	0.96	1.20
16,691.00	90.24	358.560	7,369.09	8,818.74	70.05	8,818.51	1.97	-0.40	-1.93
16,782.00	89.46	359.500	7,369.33	8,909.72	68.51	8,909.50	1.34	-0.86	1.03
16,873.00	90.07	359.360	7,369.70	9,000.72	67.61	9,000.50	0.69	0.67	-0.15
16,966.00	90.97	1.470	7,368.86	9,093.71	68.28	9,093.48	2.47	0.97	2.27
17,060.00	91.01	1.220	7,367.23	9,187.67	70.49	9,187.44	0.27	0.04	-0.27
17,154.00	91.17	359.210	7,365.44	9,281.64	70.84	9,281.41	2.14	0.17	-2.14
17,247.00	91.04	359.710	7,363.65	9,374.62	69.96	9,374.39	0.56	-0.14	0.54
17,342.00	91.27	359.360	7,361.74	9,469.60	69.19	9,469.37	0.44	0.24	-0.37
17,435.00	91.14	358.730	7,359.78	9,562.56	67.64	9,562.34	0.69	-0.14	-0.68
17,529.00	91.27	357.760	7,357.80	9,656.50	64.76	9,656.28	1.04	0.14	-1.03
17,623.00	91.34	357.530	7,355.66	9,750.39	60.90	9,750.19	0.26	0.07	-0.24
17,717.00	91.78	356.960	7,353.10	9,844.25	56.39	9,844.06	0.77	0.47	-0.61
17,727.00	91.91	356.840	7,352.78	9,854.23	55.85	9,854.04	1.77	1.30	-1.20
Last SDI MWD Survey									
17,784.00	91.91	356.840	7,350.88	9,911.11	52.70	9,910.93	0.00	0.00	0.00
Projection to TD									



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Site:	Critter Creek 15 SW	MD Reference:	GL 5242.3' & KB 16.5' @ 5258.80ft (Cade 24)
Well:	Critter Creek 15-6302B	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
153.00	152.99	-0.63	-1.25	First GeoGuidance MWD Survey
1,493.00	1,490.86	-60.85	7.87	Last GeoGuidance MWD Survey
1,609.00	1,606.23	-72.72	10.29	First SDI MWD Survey
6,741.00	6,660.24	-727.15	119.22	Curve KOP
6,835.00	6,754.06	-722.09	120.18	First SDI MWD Curve Survey
7,724.00	7,324.69	-139.15	116.70	Last SDI MWD Curve Survey
7,865.00	7,335.14	1.33	111.41	First SDI MWD Lateral Survey
17,727.00	7,352.78	9,854.23	55.85	Last SDI MWD Survey
17,784.00	7,350.88	9,911.11	52.70	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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