



Survey Certification

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

Operator	HighPoint Resources
Well Name & No.	Critter Creek 16-5708D
API #	05-123-47312
County & State	Weld County, CO
SDI Job #	OP.013856
Rig	Savanna 802
Survey Date	24-Oct-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 1503.5 feet to a measured depth of 17923 feet is true and correct as determined from all available records.

Seth M. Burstad

Signature

25-Oct-2018

Date

Seth M. Burstad

Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



Project: Weld County, CO NAD 83
Site: Critter Creek 16 SE Pad
Well: Critter Creek 16-5708D
Wellbore: OH
Design: OH

WELL DETAILS: Critter Creek 16-5708D

GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802) 5251.30
Northing 1578434.18 Easting 3295164.61 Latitude 40° 54' 58.647 N Longitude 104° 25' 55.355 W

Design: OH (Critter Creek 16-5708D/OH)

Created By: Seth Burstad

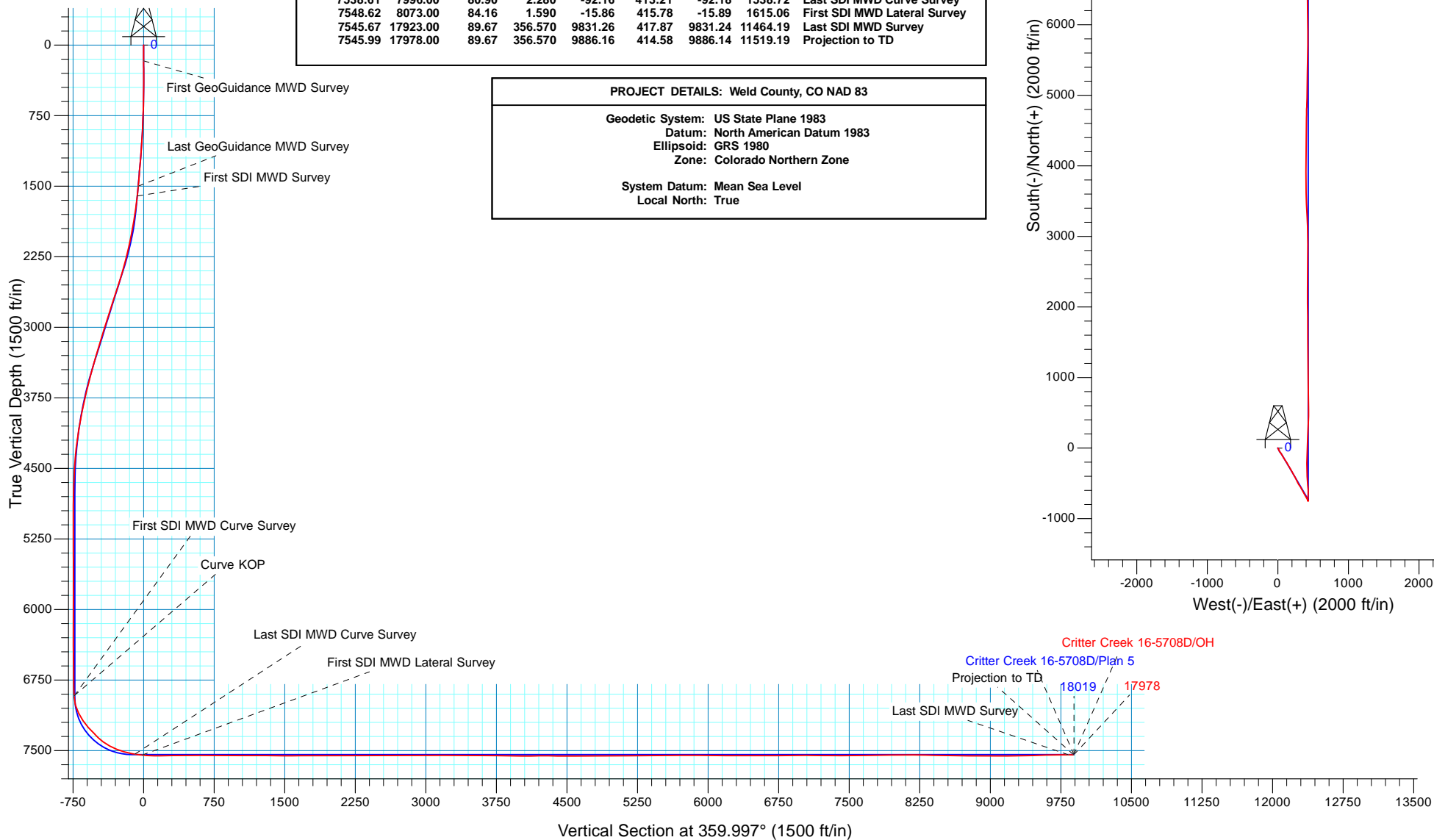
ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V	Sect	Departure	Annotation
169.50	169.50	0.48	329.650	0.61	-0.36	0.61	0.71		First GeoGuidance MWD Survey
1500.78	1503.50	6.24	145.300	-57.73	32.00	-57.74	70.23		Last GeoGuidance MWD Survey
1603.64	1607.00	6.43	142.610	-66.96	38.72	-66.97	81.65		First SDI MWD Survey
6918.54	7033.00	2.00	345.075	-739.48	424.13	-739.51	890.33		Curve KOP
6920.54	7035.00	2.02	345.150	-739.42	424.11	-739.44	890.38		First SDI MWD Curve Survey
7538.61	7996.00	80.90	2.280	-92.16	413.21	-92.18	1538.72		Last SDI MWD Curve Survey
7548.62	8073.00	84.16	1.590	-15.86	415.78	-15.89	1615.06		First SDI MWD Lateral Survey
7545.67	17923.00	89.67	356.570	9831.26	417.87	9831.24	11464.19		Last SDI MWD Survey
7545.99	17978.00	89.67	356.570	9886.16	414.58	9886.14	11519.19		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
Crittter Creek 16 SE Pad
Crittter Creek 16-5708D

OH

Design: OH

Standard Survey Report

25 October, 2018



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-5708D
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Site:	Critter Creek 16 SE Pad	MD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Well:	Critter Creek 16-5708D	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 SE Pad, Site Center : Critter Creek 16-5708B			
Site Position:		Northing:	1,578,436.56 usft	Latitude:	40° 54' 58.651 N
From:	Lat/Long	Easting:	3,295,329.88 usft	Longitude:	104° 25' 53.202 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.69 °

Well	Critter Creek 16-5708D, 430' FSL 989' FEL Sec 16 T11N R63W					
Well Position	+N/-S	0.00 ft	Northing:	1,578,434.17 usft	Latitude:	40° 54' 58.647 N
	+E/-W	0.00 ft	Easting:	3,295,164.61 usft	Longitude:	104° 25' 55.355 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,251.30 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/21/2018	8.28	67.20	52,778

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	359.997	

Survey Program	Date	10/25/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
169.50	1,503.50	Survey #1 - Surface (OH)	OWSG MWD	OWSG MWD - Standard	
1,607.00	7,996.00	Survey #2 - Intermediate (OH)	OWSG MWD	OWSG MWD - Standard	
8,073.00	17,978.00	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	0.48	329.650	169.50	0.61	-0.36	0.61	0.28	0.28	0.00	
First GeoGuidance MWD Survey										
213.50	0.18	336.770	213.50	0.84	-0.48	0.84	0.69	-0.68	16.18	
257.50	0.57	0.460	257.50	1.12	-0.50	1.12	0.94	0.89	53.84	
302.50	0.40	358.880	302.49	1.50	-0.51	1.50	0.38	-0.38	-3.51	
346.50	0.04	329.960	346.49	1.67	-0.52	1.67	0.83	-0.82	-65.73	
435.50	0.40	220.710	435.49	1.46	-0.73	1.46	0.47	0.40	-122.75	
479.50	0.70	166.570	479.49	1.08	-0.77	1.08	1.29	0.68	-123.05	

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-5708D
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Site:	Critter Creek 16 SE Pad	MD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Well:	Critter Creek 16-5708D	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)
523.50	0.83	150.660	523.49	0.54	-0.55	0.54	0.56	0.30	-36.16
567.50	1.45	145.430	567.48	-0.20	-0.08	-0.20	1.43	1.41	-11.89
611.50	1.71	150.620	611.46	-1.23	0.56	-1.23	0.67	0.59	11.80
656.50	2.11	146.620	656.44	-2.50	1.34	-2.50	0.94	0.89	-8.89
700.50	2.02	138.580	700.41	-3.76	2.30	-3.76	0.69	-0.20	-18.27
744.50	2.12	147.760	744.38	-5.03	3.25	-5.03	0.79	0.23	20.86
789.50	2.24	151.670	789.35	-6.51	4.11	-6.51	0.42	0.27	8.69
831.50	2.50	154.000	831.31	-8.06	4.90	-8.06	0.66	0.62	5.55
875.50	2.90	150.400	875.26	-9.89	5.87	-9.89	0.99	0.91	-8.18
919.50	3.30	147.280	919.20	-11.92	7.10	-11.92	0.99	0.91	-7.09
964.50	3.78	152.380	964.11	-14.32	8.49	-14.32	1.27	1.07	11.33
995.50	4.17	156.330	995.04	-16.26	9.42	-16.26	1.54	1.26	12.74
1,027.50	4.39	159.500	1,026.95	-18.47	10.31	-18.47	1.01	0.69	9.91
1,059.50	4.79	160.680	1,058.85	-20.88	11.19	-20.88	1.28	1.25	3.69
1,090.50	4.78	158.540	1,089.74	-23.30	12.09	-23.31	0.58	-0.03	-6.90
1,122.50	4.66	158.310	1,121.63	-25.75	13.05	-25.75	0.38	-0.38	-0.72
1,154.50	4.53	155.230	1,153.53	-28.11	14.06	-28.11	0.87	-0.41	-9.63
1,185.50	4.61	152.590	1,184.43	-30.33	15.15	-30.33	0.73	0.26	-8.52
1,217.50	5.01	151.010	1,216.32	-32.69	16.42	-32.69	1.32	1.25	-4.94
1,249.50	5.67	154.200	1,248.18	-35.34	17.78	-35.34	2.26	2.06	9.97
1,281.50	5.93	153.650	1,280.01	-38.24	19.21	-38.24	0.83	0.81	-1.72
1,312.50	5.98	152.550	1,310.85	-41.11	20.66	-41.11	0.40	0.16	-3.55
1,344.50	5.76	152.770	1,342.68	-44.02	22.16	-44.02	0.69	-0.69	0.69
1,376.50	6.06	145.170	1,374.51	-46.83	23.86	-46.83	2.62	0.94	-23.75
1,407.50	6.11	141.700	1,405.33	-49.47	25.82	-49.47	1.20	0.16	-11.19
1,439.50	6.06	142.140	1,437.15	-52.14	27.91	-52.14	0.21	-0.16	1.38
1,471.50	6.28	144.030	1,468.97	-54.89	29.98	-54.89	0.94	0.69	5.91
1,503.50	6.24	145.300	1,500.78	-57.73	32.00	-57.74	0.45	-0.13	3.97
Last GeoGuidance MWD Survey									
1,607.00	6.43	142.610	1,603.64	-66.96	38.72	-66.97	0.34	0.18	-2.60
First SDI MWD Survey									
1,697.00	8.86	145.710	1,692.84	-76.69	45.68	-76.70	2.74	2.70	3.44
1,788.00	10.71	150.420	1,782.51	-89.84	53.81	-89.84	2.21	2.03	5.18
1,880.00	11.18	150.580	1,872.84	-105.04	62.41	-105.05	0.51	0.51	0.17
1,970.00	12.48	150.030	1,960.93	-121.07	71.55	-121.07	1.45	1.44	-0.61
2,062.00	12.47	148.020	2,050.75	-138.10	81.78	-138.11	0.47	-0.01	-2.18
2,153.00	15.04	148.720	2,139.14	-156.53	93.11	-156.54	2.83	2.82	0.77
2,244.00	16.31	145.660	2,226.75	-177.17	106.45	-177.18	1.66	1.40	-3.36
2,336.00	16.55	145.520	2,314.99	-198.64	121.16	-198.65	0.26	0.26	-0.15
2,430.00	19.12	151.100	2,404.48	-223.16	136.18	-223.17	3.28	2.73	5.94
2,524.00	19.95	148.030	2,493.07	-250.25	152.11	-250.25	1.40	0.88	-3.27
2,619.00	20.54	151.970	2,582.20	-278.71	168.53	-278.72	1.56	0.62	4.15
2,712.00	20.38	151.310	2,669.34	-307.31	183.97	-307.32	0.30	-0.17	-0.71
2,807.00	20.21	149.810	2,758.44	-336.01	200.16	-336.02	0.58	-0.18	-1.58

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Site:	Critter Creek 16 SE Pad	MD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Well:	Critter Creek 16-5708D	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)
2,901.00	19.66	149.660	2,846.81	-363.69	216.31	-363.70	0.59	-0.59	-0.16
2,995.00	19.70	147.440	2,935.32	-390.69	232.83	-390.70	0.80	0.04	-2.36
3,089.00	19.85	156.050	3,023.79	-418.63	247.84	-418.65	3.10	0.16	9.16
3,183.00	19.15	155.550	3,112.40	-447.26	260.70	-447.27	0.77	-0.74	-0.53
3,276.00	19.09	155.460	3,200.27	-474.98	273.33	-474.99	0.07	-0.06	-0.10
3,370.00	18.62	148.430	3,289.24	-501.75	287.57	-501.76	2.47	-0.50	-7.48
3,464.00	18.39	147.650	3,378.38	-527.06	303.36	-527.08	0.36	-0.24	-0.83
3,558.00	18.20	147.250	3,467.63	-551.93	319.24	-551.95	0.24	-0.20	-0.43
3,652.00	16.80	150.040	3,557.27	-576.05	333.96	-576.07	1.74	-1.49	2.97
3,746.00	14.79	152.600	3,647.72	-598.47	346.27	-598.49	2.26	-2.14	2.72
3,841.00	14.89	150.800	3,739.55	-619.89	357.80	-619.91	0.50	0.11	-1.89
3,935.00	14.62	151.250	3,830.45	-640.84	369.40	-640.86	0.31	-0.29	0.48
4,029.00	12.00	150.640	3,921.92	-659.76	379.90	-659.78	2.79	-2.79	-0.65
4,123.00	11.68	148.830	4,013.92	-676.42	389.62	-676.44	0.52	-0.34	-1.93
4,217.00	10.21	151.770	4,106.21	-691.90	398.48	-691.92	1.67	-1.56	3.13
4,311.00	8.58	152.540	4,198.94	-705.46	405.66	-705.48	1.74	-1.73	0.82
4,405.00	7.16	151.230	4,292.06	-716.82	411.71	-716.84	1.52	-1.51	-1.39
4,499.00	5.38	144.020	4,385.49	-725.52	417.12	-725.54	2.07	-1.89	-7.67
4,593.00	4.96	147.170	4,479.11	-732.50	421.91	-732.52	0.54	-0.45	3.35
4,686.00	3.62	148.150	4,571.85	-738.37	425.64	-738.40	1.44	-1.44	1.05
4,780.00	2.15	155.340	4,665.73	-742.50	427.94	-742.52	1.61	-1.56	7.65
4,874.00	0.65	207.930	4,759.70	-744.57	428.43	-744.59	1.95	-1.60	55.95
4,968.00	0.53	187.670	4,853.69	-745.47	428.12	-745.50	0.25	-0.13	-21.55
5,062.00	0.54	197.870	4,947.69	-746.33	427.93	-746.35	0.10	0.01	10.85
5,156.00	0.57	196.080	5,041.68	-747.20	427.66	-747.22	0.04	0.03	-1.90
5,249.00	0.17	39.080	5,134.68	-747.53	427.62	-747.56	0.78	-0.43	-168.82
5,343.00	0.52	70.990	5,228.68	-747.29	428.11	-747.31	0.41	0.37	33.95
5,436.00	0.54	65.670	5,321.68	-746.97	428.91	-746.99	0.06	0.02	-5.72
5,530.00	0.57	54.620	5,415.67	-746.52	429.69	-746.54	0.12	0.03	-11.76
5,625.00	0.71	61.130	5,510.67	-745.96	430.60	-745.98	0.17	0.15	6.85
5,719.00	0.68	73.290	5,604.66	-745.52	431.64	-745.54	0.16	-0.03	12.94
5,813.00	0.57	70.970	5,698.65	-745.20	432.62	-745.23	0.12	-0.12	-2.47
5,907.00	0.85	213.570	5,792.65	-745.63	432.67	-745.65	1.43	0.30	151.70
6,002.00	0.65	237.670	5,887.64	-746.51	431.83	-746.53	0.39	-0.21	25.37
6,096.00	0.50	254.550	5,981.64	-746.90	430.98	-746.92	0.24	-0.16	17.96
6,190.00	0.75	264.890	6,075.63	-747.07	429.97	-747.09	0.29	0.27	11.00
6,284.00	0.54	268.430	6,169.63	-747.13	428.92	-747.16	0.23	-0.22	3.77
6,378.00	0.74	266.900	6,263.62	-747.18	427.87	-747.20	0.21	0.21	-1.63
6,472.00	0.81	255.410	6,357.61	-747.38	426.62	-747.40	0.18	0.07	-12.22
6,566.00	0.94	1.460	6,451.61	-746.77	426.00	-746.80	1.49	0.14	112.82
6,659.00	0.69	354.390	6,544.60	-745.45	425.96	-745.48	0.29	-0.27	-7.60
6,753.00	0.81	332.630	6,638.59	-744.30	425.60	-744.32	0.33	0.13	-23.15
6,847.00	0.80	351.980	6,732.58	-743.06	425.20	-743.08	0.29	-0.01	20.59

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Well:	Critter Creek 16-5708D	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)
6,941.00	0.92	337.430	6,826.57	-741.71	424.82	-741.74	0.26	0.13	-15.48
7,033.00	2.00	345.075	6,918.54	-739.48	424.13	-739.51	1.19	1.17	8.31
Curve KOP									
7,035.00	2.02	345.150	6,920.54	-739.42	424.11	-739.44	1.19	1.18	3.77
First SDI MWD Curve Survey									
7,129.00	14.13	3.330	7,013.44	-726.31	424.35	-726.33	13.01	12.88	19.34
7,224.00	29.20	4.590	7,101.47	-691.43	426.89	-691.46	15.87	15.86	1.33
7,318.00	31.67	1.500	7,182.52	-643.90	429.37	-643.92	3.11	2.63	-3.29
7,411.00	43.45	357.750	7,256.12	-587.33	428.76	-587.36	12.90	12.67	-4.03
7,506.00	44.56	355.290	7,324.46	-521.47	424.74	-521.49	2.14	1.17	-2.59
7,600.00	48.55	354.660	7,389.08	-453.50	418.75	-453.52	4.27	4.24	-0.67
7,693.00	61.47	355.440	7,442.30	-377.75	412.23	-377.77	13.91	13.89	0.84
7,787.00	67.08	0.500	7,483.11	-293.19	409.32	-293.21	7.69	5.97	5.38
7,880.00	75.27	1.110	7,513.09	-205.25	410.57	-205.27	8.83	8.81	0.66
7,974.00	78.24	1.340	7,534.63	-113.78	412.52	-113.80	3.17	3.16	0.24
7,996.00	80.90	2.280	7,538.61	-92.16	413.21	-92.18	12.80	12.09	4.27
Last SDI MWD Curve Survey									
8,073.00	84.16	1.590	7,548.62	-15.86	415.78	-15.89	4.33	4.23	-0.90
First SDI MWD Lateral Survey									
8,167.00	88.16	2.480	7,554.91	77.85	419.11	77.82	4.36	4.26	0.95
8,262.00	90.64	2.530	7,555.91	172.74	423.27	172.72	2.61	2.61	0.05
8,355.00	90.64	2.440	7,554.87	265.65	427.30	265.63	0.10	0.00	-0.10
8,450.00	90.80	2.540	7,553.67	360.55	431.43	360.53	0.20	0.17	0.11
8,544.00	91.17	1.030	7,552.06	454.49	434.35	454.47	1.65	0.39	-1.61
8,637.00	90.91	0.350	7,550.37	547.47	435.47	547.44	0.78	-0.28	-0.73
8,730.00	89.56	358.110	7,549.99	640.45	434.22	640.43	2.81	-1.45	-2.41
8,824.00	88.96	358.610	7,551.20	734.40	431.53	734.38	0.83	-0.64	0.53
8,918.00	89.53	359.770	7,552.44	828.38	430.20	828.36	1.37	0.61	1.23
9,012.00	89.67	359.960	7,553.10	922.38	429.98	922.36	0.25	0.15	0.20
9,106.00	89.97	359.400	7,553.39	1,016.38	429.46	1,016.35	0.68	0.32	-0.60
9,201.00	90.74	359.390	7,552.80	1,111.37	428.45	1,111.35	0.81	0.81	-0.01
9,294.00	89.53	359.280	7,552.59	1,204.36	427.38	1,204.34	1.31	-1.30	-0.12
9,388.00	89.36	358.590	7,553.50	1,298.34	425.63	1,298.32	0.76	-0.18	-0.73
9,483.00	88.96	359.650	7,554.89	1,393.32	424.17	1,393.29	1.19	-0.42	1.12
9,577.00	89.70	0.050	7,555.99	1,487.31	423.92	1,487.29	0.89	0.79	0.43
9,671.00	90.50	0.580	7,555.82	1,581.31	424.44	1,581.28	1.02	0.85	0.56
9,765.00	90.37	0.010	7,555.11	1,675.30	424.92	1,675.28	0.62	-0.14	-0.61
9,859.00	90.40	359.730	7,554.48	1,769.30	424.71	1,769.28	0.30	0.03	-0.30
9,953.00	89.60	358.510	7,554.48	1,863.29	423.27	1,863.26	1.55	-0.85	-1.30
10,047.00	90.13	359.100	7,554.70	1,957.26	421.31	1,957.24	0.84	0.56	0.63
10,140.00	89.97	359.120	7,554.62	2,050.25	419.86	2,050.23	0.17	-0.17	0.02
10,234.00	90.27	0.450	7,554.42	2,144.25	419.51	2,144.23	1.45	0.32	1.41
10,329.00	90.40	0.260	7,553.87	2,239.25	420.10	2,239.23	0.24	0.14	-0.20
10,423.00	90.67	359.790	7,552.99	2,333.24	420.14	2,333.22	0.58	0.29	-0.50



Scientific Drilling, Intl Survey Report



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Critter Creek 16-5708D
Project:	Weld County, CO NAD 83	TVD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Site:	Critter Creek 16 SE Pad	MD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Well:	Critter Creek 16-5708D	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)
10,517.00	90.27	0.920	7,552.22	2,427.24	420.72	2,427.21	1.28	-0.43	1.20
10,611.00	89.36	0.390	7,552.52	2,521.23	421.80	2,521.21	1.12	-0.97	-0.56
10,705.00	90.70	1.020	7,552.47	2,615.22	422.95	2,615.20	1.58	1.43	0.67
10,799.00	90.90	0.610	7,551.16	2,709.20	424.29	2,709.18	0.49	0.21	-0.44
10,893.00	89.10	359.830	7,551.16	2,803.19	424.65	2,803.17	2.09	-1.91	-0.83
10,986.00	90.10	359.720	7,551.81	2,896.19	424.29	2,896.17	1.08	1.08	-0.12
11,080.00	89.50	358.520	7,552.14	2,990.18	422.84	2,990.15	1.43	-0.64	-1.28
11,174.00	90.54	359.070	7,552.10	3,084.15	420.86	3,084.13	1.25	1.11	0.59
11,268.00	90.90	359.170	7,550.92	3,178.13	419.42	3,178.11	0.40	0.38	0.11
11,361.00	89.23	356.710	7,550.82	3,271.06	416.08	3,271.04	3.20	-1.80	-2.65
11,456.00	89.87	356.010	7,551.56	3,365.87	410.05	3,365.85	1.00	0.67	-0.74
11,550.00	89.77	357.420	7,551.86	3,459.71	404.66	3,459.69	1.50	-0.11	1.50
11,644.00	89.50	358.600	7,552.46	3,553.65	401.40	3,553.63	1.29	-0.29	1.26
11,738.00	89.90	358.780	7,552.95	3,647.62	399.25	3,647.60	0.47	0.43	0.19
11,832.00	88.96	359.510	7,553.88	3,741.61	397.85	3,741.59	1.27	-1.00	0.78
11,926.00	88.86	0.220	7,555.67	3,835.59	397.62	3,835.57	0.76	-0.11	0.76
12,020.00	89.30	0.660	7,557.18	3,929.57	398.35	3,929.55	0.66	0.47	0.47
12,113.00	90.37	1.020	7,557.45	4,022.56	399.71	4,022.54	1.21	1.15	0.39
12,207.00	90.13	0.570	7,557.04	4,116.55	401.01	4,116.53	0.54	-0.26	-0.48
12,301.00	90.40	0.220	7,556.61	4,210.55	401.66	4,210.53	0.47	0.29	-0.37
12,395.00	89.63	359.060	7,556.58	4,304.55	401.07	4,304.52	1.48	-0.82	-1.23
12,489.00	89.80	0.010	7,557.05	4,398.54	400.31	4,398.52	1.03	0.18	1.01
12,583.00	89.53	0.650	7,557.60	4,492.54	400.85	4,492.52	0.74	-0.29	0.68
12,677.00	90.23	2.140	7,557.79	4,586.50	403.14	4,586.48	1.75	0.74	1.59
12,771.00	89.90	1.470	7,557.69	4,680.46	406.10	4,680.44	0.79	-0.35	-0.71
12,865.00	89.23	0.190	7,558.40	4,774.44	407.46	4,774.42	1.54	-0.71	-1.36
12,960.00	90.77	2.200	7,558.40	4,869.41	409.44	4,869.39	2.67	1.62	2.12
13,054.00	91.84	2.840	7,556.26	4,963.30	413.57	4,963.28	1.33	1.14	0.68
13,148.00	89.83	0.470	7,554.89	5,057.24	416.29	5,057.21	3.31	-2.14	-2.52
13,242.00	89.83	359.910	7,555.17	5,151.23	416.60	5,151.21	0.60	0.00	-0.60
13,336.00	90.07	0.100	7,555.25	5,245.23	416.61	5,245.21	0.33	0.26	0.20
13,430.00	91.07	1.000	7,554.32	5,339.22	417.51	5,339.20	1.43	1.06	0.96
13,524.00	90.23	1.260	7,553.25	5,433.20	419.36	5,433.18	0.94	-0.89	0.28
13,618.00	90.44	1.040	7,552.70	5,527.18	421.25	5,527.16	0.32	0.22	-0.23
13,712.00	91.47	1.410	7,551.13	5,621.14	423.26	5,621.12	1.16	1.10	0.39
13,806.00	89.70	0.320	7,550.17	5,715.12	424.68	5,715.10	2.21	-1.88	-1.16
13,899.00	90.13	359.960	7,550.31	5,808.12	424.90	5,808.10	0.60	0.46	-0.39
13,994.00	90.10	359.830	7,550.12	5,903.12	424.73	5,903.10	0.14	-0.03	-0.14
14,088.00	89.40	359.080	7,550.53	5,997.11	423.84	5,997.09	1.09	-0.74	-0.80
14,182.00	89.20	358.840	7,551.68	6,091.09	422.13	6,091.07	0.33	-0.21	-0.26
14,276.00	89.06	359.810	7,553.11	6,185.07	421.02	6,185.05	1.04	-0.15	1.03
14,370.00	89.23	359.040	7,554.51	6,279.06	420.08	6,279.03	0.84	0.18	-0.82
14,465.00	89.46	358.970	7,555.60	6,374.04	418.43	6,374.01	0.25	0.24	-0.07

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Site:	Critter Creek 16 SE Pad	MD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Well:	Critter Creek 16-5708D	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)
14,559.00	90.74	0.680	7,555.43	6,468.03	418.14	6,468.01	2.27	1.36	1.82
14,653.00	90.03	359.840	7,554.80	6,562.03	418.57	6,562.00	1.17	-0.76	-0.89
14,748.00	90.60	359.760	7,554.28	6,657.02	418.24	6,657.00	0.61	0.60	-0.08
14,842.00	91.07	359.480	7,552.91	6,751.01	417.61	6,750.99	0.58	0.50	-0.30
14,935.00	91.24	358.920	7,551.03	6,843.98	416.32	6,843.96	0.63	0.18	-0.60
15,029.00	89.63	358.790	7,550.32	6,937.96	414.44	6,937.94	1.72	-1.71	-0.14
15,123.00	89.80	359.070	7,550.79	7,031.94	412.68	7,031.92	0.35	0.18	0.30
15,217.00	89.36	0.360	7,551.48	7,125.93	412.22	7,125.91	1.45	-0.47	1.37
15,311.00	88.99	359.550	7,552.83	7,219.92	412.14	7,219.90	0.95	-0.39	-0.86
15,402.00	90.07	1.290	7,553.58	7,310.91	412.81	7,310.89	2.25	1.19	1.91
15,494.00	90.17	1.180	7,553.38	7,402.89	414.79	7,402.87	0.16	0.11	-0.12
15,584.00	90.20	1.730	7,553.09	7,492.86	417.08	7,492.84	0.61	0.03	0.61
15,676.00	90.50	1.600	7,552.53	7,584.82	419.75	7,584.80	0.36	0.33	-0.14
15,767.00	90.70	1.430	7,551.58	7,675.78	422.16	7,675.76	0.29	0.22	-0.19
15,858.00	91.17	1.460	7,550.09	7,766.74	424.45	7,766.72	0.52	0.52	0.03
15,949.00	90.30	0.070	7,548.93	7,857.72	425.66	7,857.70	1.80	-0.96	-1.53
16,040.00	90.47	359.830	7,548.31	7,948.72	425.59	7,948.70	0.32	0.19	-0.26
16,131.00	90.84	359.590	7,547.27	8,039.71	425.12	8,039.69	0.48	0.41	-0.26
16,223.00	89.73	359.650	7,546.82	8,131.71	424.51	8,131.69	1.21	-1.21	0.07
16,314.00	89.13	358.500	7,547.72	8,222.69	423.05	8,222.67	1.43	-0.66	-1.26
16,405.00	89.33	358.120	7,548.95	8,313.64	420.36	8,313.62	0.47	0.22	-0.42
16,496.00	88.53	359.580	7,550.64	8,404.61	418.54	8,404.58	1.83	-0.88	1.60
16,587.00	89.16	359.660	7,552.48	8,495.58	417.93	8,495.56	0.70	0.69	0.09
16,678.00	89.06	359.370	7,553.89	8,586.57	417.16	8,586.55	0.34	-0.11	-0.32
16,769.00	89.36	359.070	7,555.15	8,677.55	415.92	8,677.53	0.47	0.33	-0.33
16,860.00	89.56	359.690	7,556.00	8,768.54	414.94	8,768.52	0.72	0.22	0.68
16,950.00	89.30	359.240	7,556.90	8,858.53	414.10	8,858.51	0.58	-0.29	-0.50
17,041.00	89.87	0.390	7,557.56	8,949.53	413.80	8,949.51	1.41	0.63	1.26
17,132.00	89.43	359.770	7,558.12	9,040.53	413.93	9,040.51	0.84	-0.48	-0.68
17,223.00	90.34	0.390	7,558.30	9,131.53	414.06	9,131.50	1.21	1.00	0.68
17,314.00	91.17	1.740	7,557.10	9,222.50	415.75	9,222.48	1.74	0.91	1.48
17,405.00	91.24	0.740	7,555.18	9,313.46	417.72	9,313.43	1.10	0.08	-1.10
17,497.00	91.71	0.560	7,552.82	9,405.42	418.76	9,405.40	0.55	0.51	-0.20
17,588.00	91.01	1.080	7,550.66	9,496.38	420.06	9,496.36	0.96	-0.77	0.57
17,679.00	91.07	0.410	7,549.01	9,587.36	421.25	9,587.34	0.74	0.07	-0.74
17,770.00	91.17	0.020	7,547.23	9,678.34	421.59	9,678.32	0.44	0.11	-0.43
17,861.00	90.60	358.590	7,545.82	9,769.32	420.49	9,769.30	1.69	-0.63	-1.57
17,923.00	89.67	356.570	7,545.67	9,831.26	417.87	9,831.24	3.59	-1.50	-3.26
Last SDI MWD Survey									
17,978.00	89.67	356.570	7,545.99	9,886.16	414.58	9,886.14	0.00	0.00	0.00
Projection to TD									



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Site:	Critter Creek 16 SE Pad	MD Reference:	GL 5251.3' & KB 20' @ 5271.30ft (Savanna 802)
Well:	Critter Creek 16-5708D	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)	
169.50	169.50	0.61	-0.36	First GeoGuidance MWD Survey
1,503.50	1,500.78	-57.73	32.00	Last GeoGuidance MWD Survey
1,607.00	1,603.64	-66.96	38.72	First SDI MWD Survey
7,033.00	6,918.54	-739.48	424.13	Curve KOP
7,035.00	6,920.54	-739.42	424.11	First SDI MWD Curve Survey
7,996.00	7,538.61	-92.16	413.21	Last SDI MWD Curve Survey
8,073.00	7,548.62	-15.86	415.78	First SDI MWD Lateral Survey
17,923.00	7,545.67	9,831.26	417.87	Last SDI MWD Survey
17,978.00	7,545.99	9,886.16	414.58	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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