



HighPoint Resources

WELD COUNTY, CO
CRITTER CREEK 14 SW
CRITTER CREEK 240-1411H
CRITTER CREEK 240-1411H

Design: CRITTER CREEK 240-1411H

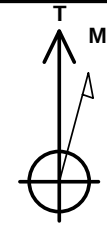
FINAL SURVEY REPORT

04 October, 2018



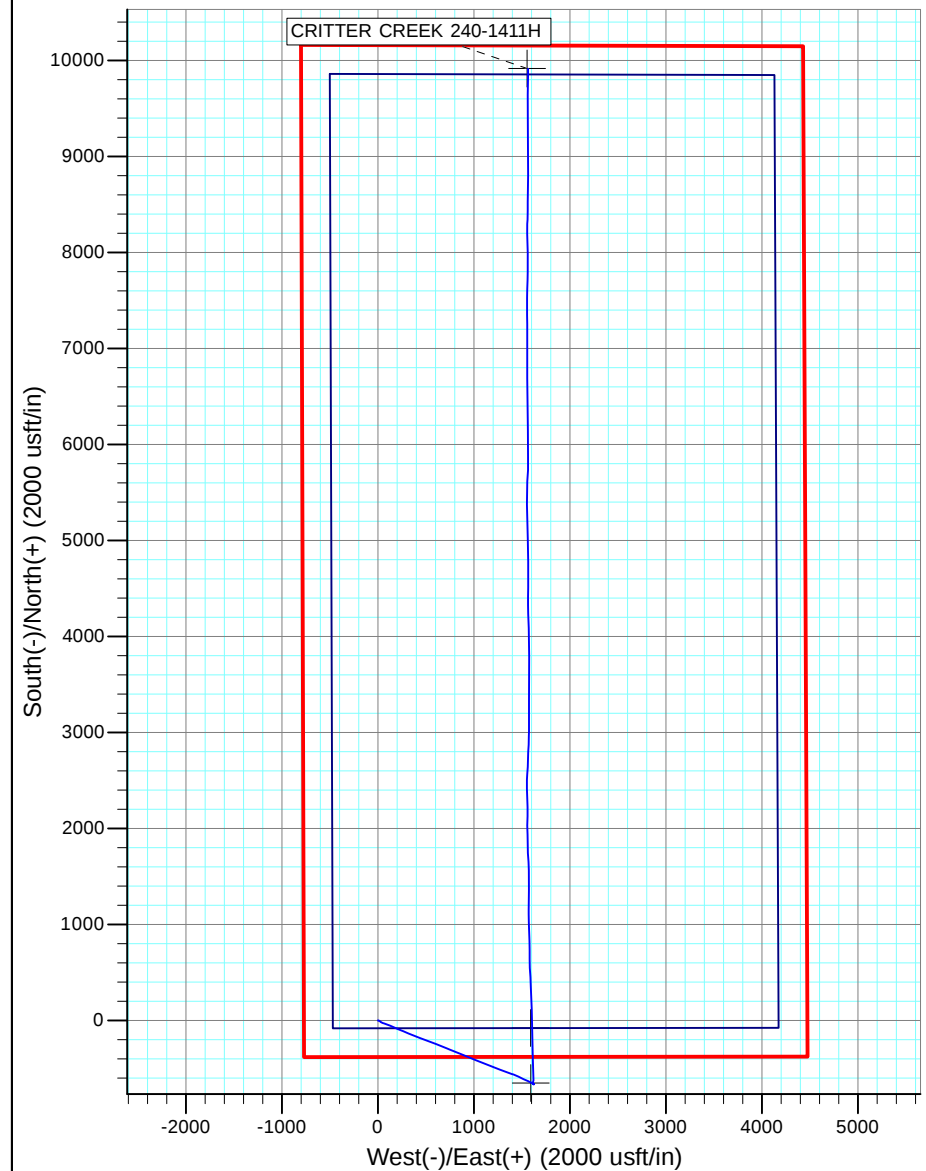
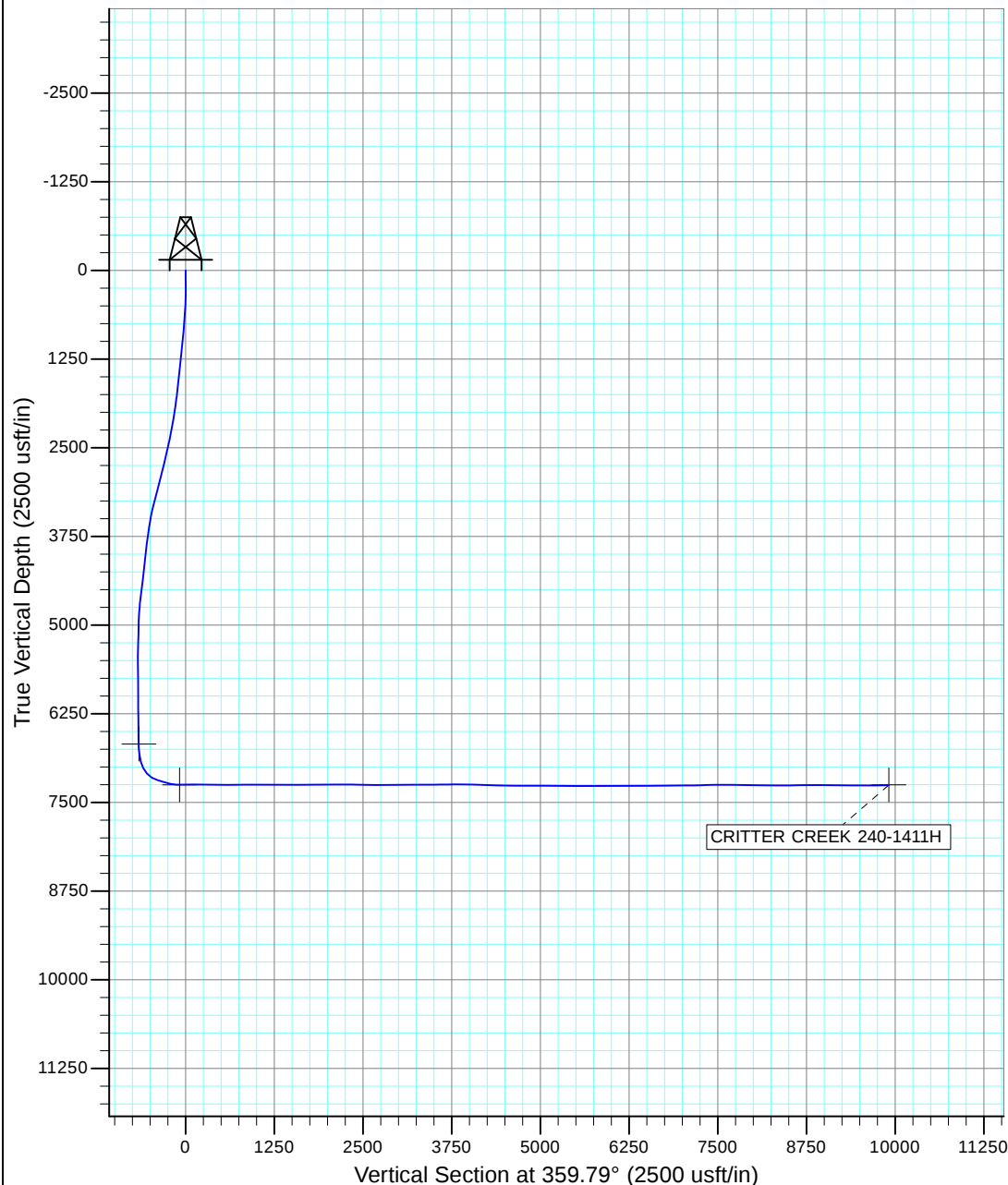


Project: WELD COUNTY, CO
Site: CRITTER CREEK 14 SW
Well: CRITTER CREEK 240-1411H
Wellpath: CRITTER CREEK 240-1411H
Design: CRITTER CREEK 240-1411H



Azimuths to True North
Magnetic North: 7.95°

Magnetic Field
Strength: 52578.4snT
Dip Angle: 67.29°
Date: 6/13/2018
Model: IGRF2015



FINAL PLOT



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Project	WELD COUNTY, CO		
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 14 SW		
Site Position:		Northing:	1,578,513.31 usft
From:	Map	Easting:	3,302,162.92 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	40.916274
		Longitude:	-104.406721
		Grid Convergence:	0.71 °

Well		CRITTER CREEK 240-1411H, SUR N. 1578513.31 E. 3302162.92				
Well Position	+N/-S	0.00 usft	Northing:	1,578,513.31 usft	Latitude:	40.916274
	+E/-W	0.00 usft	Easting:	3,302,162.92 usft	Longitude:	-104.406721
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,237.80 usft	Ground Level:	5,217.80 usft

Wellbore	CRITTER CREEK 240-1411H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/13/2018	7.95	67.29	52,578

Design	CRITTER CREEK 240-1411H			
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	359.79

Survey Program	Date	10/4/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
135.00	17,992.00	Survey #1 (CRITTER CREEK 240-1411H)	MWD+IGRF	OWSG MWD + IGRF or WMM



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
0.00	0.00	0.00	0.00	5,237.80	0.00	0.00	1,578,513.31	3,302,162.92	0.00	0.00
135.00	0.79	331.65	135.00	5,102.80	0.82	-0.44	1,578,514.12	3,302,162.47	0.59	0.82
227.00	0.48	354.41	226.99	5,010.81	1.76	-0.78	1,578,515.06	3,302,162.12	0.43	1.76
318.00	2.02	112.28	317.97	4,919.83	1.53	0.67	1,578,514.85	3,302,163.57	2.51	1.53
409.00	3.38	111.13	408.87	4,828.93	-0.04	4.65	1,578,513.32	3,302,167.57	1.50	-0.06
500.00	4.75	119.48	499.64	4,738.16	-2.86	10.44	1,578,510.57	3,302,173.39	1.64	-2.90
589.00	6.90	118.89	588.17	4,649.63	-7.26	18.32	1,578,506.28	3,302,181.33	2.42	-7.33
680.00	8.66	135.86	678.34	4,559.46	-14.82	27.88	1,578,498.83	3,302,190.98	3.16	-14.92
771.00	9.80	114.03	768.19	4,469.61	-22.89	39.73	1,578,490.91	3,302,202.93	4.02	-23.04
862.00	12.44	106.65	857.48	4,380.32	-28.86	56.20	1,578,485.15	3,302,219.47	3.29	-29.06
953.00	15.34	110.78	945.81	4,291.99	-35.94	76.85	1,578,478.32	3,302,240.21	3.37	-36.22
1,045.00	14.99	110.96	1,034.61	4,203.19	-44.51	99.34	1,578,470.03	3,302,262.80	0.38	-44.87
1,136.00	16.35	112.45	1,122.22	4,115.58	-53.61	122.17	1,578,461.21	3,302,285.74	1.56	-54.06
1,226.00	16.13	112.89	1,208.63	4,029.17	-63.31	145.39	1,578,451.79	3,302,309.08	0.28	-63.84
1,318.00	15.08	113.68	1,297.24	3,940.56	-73.09	168.13	1,578,442.30	3,302,331.93	1.16	-73.71
1,409.00	16.22	112.80	1,384.87	3,852.93	-82.77	190.68	1,578,432.90	3,302,354.61	1.28	-83.47
1,473.00	16.26	113.33	1,446.31	3,791.49	-89.78	207.15	1,578,426.09	3,302,371.16	0.24	-90.54
1,606.00	15.65	110.69	1,574.19	3,663.61	-103.49	241.03	1,578,412.80	3,302,405.21	0.71	-104.38
1,697.00	14.90	111.22	1,661.97	3,575.83	-112.07	263.42	1,578,404.50	3,302,427.70	0.84	-113.03
1,789.00	16.40	112.36	1,750.56	3,487.24	-121.29	286.46	1,578,395.56	3,302,450.85	1.66	-122.34
1,880.00	18.29	115.26	1,837.42	3,400.38	-132.27	311.26	1,578,384.89	3,302,475.78	2.28	-133.41
1,970.00	20.31	114.03	1,922.36	3,315.44	-144.66	338.30	1,578,372.83	3,302,502.97	2.29	-145.90
2,060.00	23.34	111.13	2,005.90	3,231.90	-157.45	369.20	1,578,360.43	3,302,534.03	3.57	-158.80
2,150.00	24.92	109.90	2,088.04	3,149.76	-170.33	403.66	1,578,347.97	3,302,568.65	1.84	-171.81
2,241.00	26.37	110.52	2,170.07	3,067.73	-183.94	440.62	1,578,334.82	3,302,605.77	1.62	-185.55
2,332.00	27.25	111.66	2,251.29	2,986.51	-198.71	478.91	1,578,320.51	3,302,644.24	1.12	-200.47
2,426.00	28.13	111.05	2,334.52	2,903.28	-214.62	519.59	1,578,305.11	3,302,685.12	0.98	-216.52



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
2,519.00	28.97	111.05	2,416.21	2,821.59	-230.58	561.07	1,578,289.66	3,302,726.79	0.90	-232.64
2,613.00	31.12	110.69	2,497.58	2,740.22	-247.34	605.05	1,578,273.45	3,302,770.97	2.30	-249.56
2,707.00	31.43	111.57	2,577.92	2,659.88	-264.94	650.56	1,578,256.42	3,302,816.70	0.59	-267.32
2,801.00	32.40	110.96	2,657.71	2,580.09	-282.95	696.87	1,578,238.97	3,302,863.23	1.09	-285.51
2,894.00	33.93	112.10	2,735.56	2,502.24	-301.63	744.19	1,578,220.87	3,302,910.77	1.78	-304.36
2,988.00	35.38	112.28	2,812.88	2,424.92	-321.82	793.68	1,578,201.30	3,302,960.51	1.55	-324.73
3,082.00	35.38	111.92	2,889.52	2,348.28	-342.30	844.11	1,578,181.44	3,303,011.19	0.22	-345.39
3,176.00	34.24	111.57	2,966.70	2,271.10	-362.18	893.95	1,578,162.18	3,303,061.27	1.23	-365.45
3,269.00	33.41	113.33	3,043.96	2,193.84	-381.94	941.79	1,578,143.01	3,303,109.35	1.38	-385.39
3,363.00	35.12	112.72	3,121.64	2,116.16	-402.63	990.50	1,578,122.92	3,303,158.31	1.86	-406.26
3,457.00	34.24	111.49	3,198.94	2,038.86	-422.77	1,040.05	1,578,103.40	3,303,208.10	1.20	-426.57
3,551.00	33.54	110.96	3,276.97	1,960.83	-441.74	1,088.91	1,578,085.03	3,303,257.19	0.81	-445.73
3,646.00	30.68	112.72	3,357.43	1,880.37	-460.50	1,135.78	1,578,066.85	3,303,304.29	3.17	-464.66
3,740.00	27.47	111.22	3,439.57	1,798.23	-477.61	1,178.12	1,578,050.26	3,303,346.84	3.50	-481.92
3,834.00	26.15	110.17	3,523.47	1,714.33	-492.60	1,217.78	1,578,035.76	3,303,386.68	1.49	-497.06
3,928.00	25.54	110.43	3,608.07	1,629.73	-506.82	1,256.21	1,578,022.02	3,303,425.29	0.66	-511.42
4,022.00	23.74	110.61	3,693.50	1,544.30	-520.55	1,292.92	1,578,008.74	3,303,462.16	1.92	-525.29
4,116.00	22.77	110.52	3,779.87	1,457.93	-533.59	1,327.66	1,577,996.13	3,303,497.06	1.03	-538.45
4,210.00	21.54	109.64	3,866.92	1,370.88	-545.77	1,360.95	1,577,984.37	3,303,530.50	1.36	-550.75
4,305.00	16.75	108.67	3,956.64	1,281.16	-556.01	1,390.37	1,577,974.48	3,303,560.03	5.05	-561.11
4,399.00	13.76	107.09	4,047.32	1,190.48	-563.64	1,413.89	1,577,967.15	3,303,583.65	3.21	-568.82
4,493.00	13.14	115.09	4,138.75	1,099.05	-571.45	1,434.25	1,577,959.58	3,303,604.11	2.08	-576.71
4,587.00	15.12	117.73	4,229.90	1,007.90	-581.69	1,454.78	1,577,949.60	3,303,624.76	2.21	-587.02
4,681.00	16.10	116.41	4,320.44	917.36	-593.19	1,477.31	1,577,938.38	3,303,647.43	1.11	-598.60
4,775.00	17.49	115.70	4,410.42	827.38	-605.12	1,501.71	1,577,926.75	3,303,671.98	1.49	-610.62
4,869.00	17.01	112.28	4,500.20	737.60	-616.46	1,527.16	1,577,915.73	3,303,697.57	1.19	-622.05
4,963.00	15.30	113.42	4,590.48	647.32	-626.60	1,551.27	1,577,905.88	3,303,721.80	1.85	-632.28



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
5,058.00	12.97	114.74	4,682.60	555.20	-636.04	1,572.46	1,577,896.70	3,303,743.10	2.48	-641.80
5,152.00	10.02	121.94	4,774.71	463.09	-644.79	1,588.98	1,577,888.16	3,303,759.73	3.48	-650.61
5,246.00	7.91	116.14	4,867.56	370.24	-651.96	1,601.73	1,577,881.14	3,303,772.56	2.44	-657.83
5,340.00	4.88	102.96	4,960.97	276.83	-655.71	1,611.43	1,577,877.52	3,303,782.31	3.56	-661.61
5,435.00	3.38	125.20	5,055.72	182.08	-658.23	1,617.66	1,577,875.07	3,303,788.57	2.28	-664.16
5,529.00	1.93	98.13	5,149.62	88.18	-660.05	1,621.49	1,577,873.30	3,303,792.43	2.00	-665.99
5,623.00	1.32	190.76	5,243.60	-5.80	-661.34	1,622.86	1,577,872.03	3,303,793.81	2.54	-667.28
5,716.00	1.32	170.55	5,336.57	-98.77	-663.45	1,622.83	1,577,869.92	3,303,793.81	0.50	-669.39
5,810.00	1.49	165.80	5,430.55	-192.75	-665.70	1,623.31	1,577,867.67	3,303,794.31	0.22	-671.65
5,903.00	0.79	292.89	5,523.54	-285.74	-666.63	1,623.02	1,577,866.75	3,303,794.03	2.22	-672.57
5,996.00	0.92	338.51	5,616.53	-378.73	-665.68	1,622.15	1,577,867.68	3,303,793.16	0.72	-671.62
6,089.00	1.14	356.79	5,709.51	-471.71	-664.06	1,621.83	1,577,869.29	3,303,792.81	0.42	-670.00
6,182.00	1.14	26.67	5,802.49	-564.69	-662.31	1,622.19	1,577,871.05	3,303,793.15	0.63	-668.25
6,276.00	0.48	289.73	5,896.49	-658.69	-661.34	1,622.24	1,577,872.02	3,303,793.19	1.37	-667.28
6,370.00	0.79	255.19	5,990.48	-752.68	-661.38	1,621.24	1,577,871.97	3,303,792.19	0.51	-667.31
6,464.00	0.18	321.72	6,084.48	-846.68	-661.43	1,620.52	1,577,871.91	3,303,791.48	0.78	-667.36
6,558.00	1.49	279.36	6,178.47	-940.67	-661.11	1,619.23	1,577,872.21	3,303,790.17	1.45	-667.04
6,652.00	0.70	292.98	6,272.45	-1,034.65	-660.69	1,617.49	1,577,872.61	3,303,788.43	0.88	-666.61
6,746.00	1.27	280.59	6,366.43	-1,128.63	-660.27	1,615.94	1,577,873.01	3,303,786.88	0.64	-666.19
6,840.00	0.70	293.51	6,460.42	-1,222.62	-659.85	1,614.39	1,577,873.41	3,303,785.32	0.65	-665.76
6,933.00	0.88	23.33	6,553.41	-1,315.61	-658.97	1,614.15	1,577,874.29	3,303,785.07	1.21	-664.88
7,027.00	0.31	266.96	6,647.41	-1,409.61	-658.32	1,614.18	1,577,874.94	3,303,785.10	1.12	-664.23
7,120.00	5.14	0.74	6,740.29	-1,502.49	-654.17	1,613.99	1,577,879.09	3,303,784.85	5.56	-660.08
7,215.00	9.85	16.21	6,834.46	-1,596.66	-642.10	1,616.31	1,577,891.19	3,303,787.02	5.35	-648.02
7,309.00	13.10	2.15	6,926.58	-1,688.78	-623.73	1,618.96	1,577,909.59	3,303,789.44	4.54	-629.65
7,403.00	26.64	357.23	7,014.79	-1,776.99	-591.88	1,618.33	1,577,941.43	3,303,788.43	14.50	-597.81
7,496.00	40.66	357.67	7,092.01	-1,854.21	-540.53	1,616.08	1,577,992.75	3,303,785.54	15.08	-546.45



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
7,590.00	60.48	359.78	7,151.42	-1,913.62	-468.30	1,614.67	1,578,064.95	3,303,783.24	21.15	-474.22
7,683.00	72.92	357.75	7,188.14	-1,950.34	-383.08	1,612.76	1,578,150.14	3,303,780.28	13.52	-388.99
7,777.00	73.58	359.69	7,215.23	-1,977.43	-293.10	1,610.75	1,578,240.09	3,303,777.16	2.10	-299.00
7,871.00	76.92	359.16	7,239.16	-2,001.36	-202.21	1,609.84	1,578,330.96	3,303,775.13	3.59	-208.11
7,954.00	89.23	358.28	7,249.15	-2,011.35	-120.00	1,607.99	1,578,413.14	3,303,772.27	14.87	-125.89
8,059.00	90.99	358.28	7,248.95	-2,011.15	-15.05	1,604.84	1,578,518.05	3,303,767.82	1.68	-20.93
8,153.00	91.16	357.67	7,247.18	-2,009.38	78.87	1,601.52	1,578,611.92	3,303,763.34	0.67	73.00
8,247.00	89.19	358.28	7,246.90	-2,009.10	172.81	1,598.20	1,578,705.81	3,303,758.86	2.19	166.95
8,341.00	89.19	358.02	7,248.22	-2,010.42	266.75	1,595.16	1,578,799.71	3,303,754.67	0.28	260.90
8,435.00	89.41	357.41	7,249.37	-2,011.57	360.67	1,591.41	1,578,893.57	3,303,749.77	0.69	354.83
8,528.00	88.97	356.96	7,250.69	-2,012.89	453.55	1,586.85	1,578,986.39	3,303,744.06	0.68	447.73
8,621.00	90.15	357.67	7,251.40	-2,013.60	546.44	1,582.49	1,579,079.22	3,303,738.55	1.48	540.64
8,715.00	90.02	359.60	7,251.26	-2,013.46	640.41	1,580.25	1,579,173.15	3,303,735.16	2.06	634.61
8,809.00	90.33	358.90	7,250.97	-2,013.17	734.40	1,579.02	1,579,267.12	3,303,732.77	0.81	728.61
8,903.00	90.51	358.99	7,250.29	-2,012.49	828.38	1,577.29	1,579,361.07	3,303,729.88	0.21	822.59
8,997.00	89.98	358.46	7,249.88	-2,012.08	922.36	1,575.20	1,579,455.02	3,303,726.63	0.80	916.58
9,090.00	89.27	357.58	7,250.49	-2,012.69	1,015.30	1,571.99	1,579,547.91	3,303,722.27	1.22	1,009.53
9,182.00	89.45	359.69	7,251.52	-2,013.72	1,107.26	1,569.80	1,579,639.84	3,303,718.94	2.30	1,101.50
9,272.00	90.29	0.74	7,251.72	-2,013.92	1,197.26	1,570.13	1,579,729.83	3,303,718.17	1.49	1,191.49
9,363.00	90.20	0.92	7,251.34	-2,013.54	1,288.25	1,571.45	1,579,820.83	3,303,718.37	0.22	1,282.48
9,454.00	90.29	0.66	7,250.95	-2,013.15	1,379.24	1,572.71	1,579,911.83	3,303,718.50	0.30	1,373.46
9,546.00	91.08	0.48	7,249.85	-2,012.05	1,471.23	1,573.62	1,580,003.82	3,303,718.28	0.88	1,465.45
9,638.00	90.07	357.93	7,248.92	-2,011.12	1,563.20	1,572.34	1,580,095.78	3,303,715.87	2.98	1,557.43
9,728.00	89.93	356.35	7,248.92	-2,011.12	1,653.09	1,567.85	1,580,185.60	3,303,710.27	1.76	1,647.33
9,819.00	89.58	357.14	7,249.31	-2,011.51	1,743.94	1,562.69	1,580,276.38	3,303,703.99	0.95	1,738.20
9,914.00	90.20	358.55	7,249.49	-2,011.69	1,838.87	1,559.12	1,580,371.26	3,303,699.25	1.62	1,833.14
10,010.00	90.07	359.16	7,249.27	-2,011.47	1,934.85	1,557.20	1,580,467.21	3,303,696.14	0.65	1,929.13



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
10,105.00	90.11	0.22	7,249.12	-2,011.32	2,029.85	1,556.68	1,580,562.19	3,303,694.46	1.12	2,024.13
10,201.00	90.77	0.04	7,248.38	-2,010.58	2,125.84	1,556.90	1,580,658.19	3,303,693.49	0.71	2,120.12
10,296.00	90.33	0.13	7,247.47	-2,009.67	2,220.84	1,557.04	1,580,753.18	3,303,692.46	0.47	2,215.12
10,392.00	89.76	358.02	7,247.39	-2,009.59	2,316.82	1,555.49	1,580,849.13	3,303,689.73	2.28	2,311.10
10,488.00	88.70	357.84	7,248.68	-2,010.88	2,412.75	1,552.02	1,580,945.01	3,303,685.08	1.12	2,407.04
10,581.00	88.53	2.06	7,250.93	-2,013.13	2,505.70	1,551.94	1,581,037.95	3,303,683.85	4.54	2,499.99
10,672.00	88.40	4.08	7,253.37	-2,015.57	2,596.53	1,556.82	1,581,128.84	3,303,687.60	2.22	2,590.81
10,764.00	89.01	3.03	7,255.45	-2,017.65	2,688.33	1,562.52	1,581,220.70	3,303,692.18	1.32	2,682.58
10,856.00	90.64	2.06	7,255.73	-2,017.93	2,780.23	1,566.60	1,581,312.65	3,303,695.13	2.06	2,774.47
10,947.00	91.47	1.62	7,254.06	-2,016.26	2,871.17	1,569.52	1,581,403.61	3,303,696.93	1.03	2,865.40
11,038.00	90.68	1.80	7,252.35	-2,014.55	2,962.11	1,572.24	1,581,494.58	3,303,698.52	0.89	2,956.33
11,129.00	89.93	0.30	7,251.86	-2,014.06	3,053.09	1,573.91	1,581,585.57	3,303,699.07	1.84	3,047.30
11,220.00	90.46	0.66	7,251.55	-2,013.75	3,144.09	1,574.67	1,581,676.57	3,303,698.71	0.70	3,138.30
11,311.00	90.81	359.60	7,250.55	-2,012.75	3,235.08	1,574.88	1,581,767.56	3,303,697.79	1.23	3,229.29
11,401.00	90.59	359.69	7,249.45	-2,011.65	3,325.07	1,574.32	1,581,857.54	3,303,696.12	0.26	3,319.28
11,493.00	89.71	0.30	7,249.21	-2,011.41	3,417.07	1,574.31	1,581,949.53	3,303,694.98	1.16	3,411.28
11,584.00	90.42	359.95	7,249.10	-2,011.30	3,508.07	1,574.51	1,582,040.53	3,303,694.06	0.87	3,502.28
11,675.00	90.68	0.57	7,248.23	-2,010.43	3,599.06	1,574.92	1,582,131.52	3,303,693.35	0.74	3,593.27
11,766.00	90.15	0.66	7,247.57	-2,009.77	3,690.06	1,575.90	1,582,222.51	3,303,693.20	0.59	3,684.26
11,857.00	90.46	359.95	7,247.09	-2,009.29	3,781.05	1,576.38	1,582,313.51	3,303,692.57	0.85	3,775.25
11,948.00	90.90	358.90	7,246.01	-2,008.21	3,872.04	1,575.47	1,582,404.48	3,303,690.53	1.25	3,866.24
12,040.00	89.54	358.81	7,245.65	-2,007.85	3,964.02	1,573.63	1,582,496.43	3,303,687.56	1.48	3,958.23
12,130.00	88.75	358.11	7,247.00	-2,009.20	4,053.98	1,571.21	1,582,586.35	3,303,684.03	1.17	4,048.19
12,220.00	88.18	358.19	7,249.41	-2,011.61	4,143.90	1,568.31	1,582,676.23	3,303,680.02	0.64	4,138.12
12,310.00	87.43	358.28	7,252.85	-2,015.05	4,233.79	1,565.54	1,582,766.08	3,303,676.14	0.84	4,228.02
12,401.00	87.12	0.04	7,257.18	-2,019.38	4,324.67	1,564.21	1,582,856.94	3,303,673.69	1.96	4,318.91
12,491.00	89.05	0.30	7,260.19	-2,022.39	4,414.62	1,564.47	1,582,946.88	3,303,672.85	2.16	4,408.85



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
12,583.00	89.01	0.22	7,261.74	-2,023.94	4,506.60	1,564.89	1,583,038.86	3,303,672.13	0.10	4,500.84
12,673.00	88.66	0.39	7,263.57	-2,025.77	4,596.58	1,565.37	1,583,128.84	3,303,671.50	0.43	4,590.81
12,765.00	90.24	0.13	7,264.46	-2,026.66	4,688.57	1,565.79	1,583,220.83	3,303,670.78	1.74	4,682.80
12,856.00	90.33	359.78	7,264.00	-2,026.20	4,779.57	1,565.71	1,583,311.82	3,303,669.59	0.40	4,773.80
12,947.00	89.89	358.99	7,263.83	-2,026.03	4,870.57	1,564.74	1,583,402.80	3,303,667.49	0.99	4,864.80
13,038.00	89.36	357.84	7,264.43	-2,026.63	4,961.53	1,562.22	1,583,493.72	3,303,663.85	1.39	4,955.77
13,129.00	90.02	358.90	7,264.92	-2,027.12	5,052.49	1,559.63	1,583,584.64	3,303,660.14	1.37	5,046.74
13,220.00	89.98	357.75	7,264.92	-2,027.12	5,143.45	1,556.97	1,583,675.56	3,303,656.36	1.26	5,137.71
13,311.00	89.67	358.19	7,265.20	-2,027.40	5,234.39	1,553.75	1,583,766.46	3,303,652.02	0.59	5,228.66
13,402.00	90.20	358.19	7,265.30	-2,027.50	5,325.34	1,550.88	1,583,857.37	3,303,648.02	0.58	5,319.62
13,493.00	89.01	2.24	7,265.93	-2,028.13	5,416.32	1,551.22	1,583,948.34	3,303,647.24	4.64	5,410.60
13,584.00	88.79	2.06	7,267.67	-2,029.87	5,507.24	1,554.63	1,584,039.30	3,303,649.53	0.31	5,501.50
13,675.00	88.70	2.41	7,269.67	-2,031.87	5,598.15	1,558.18	1,584,130.24	3,303,651.96	0.40	5,592.40
13,766.00	90.20	2.15	7,270.54	-2,032.74	5,689.07	1,561.80	1,584,221.20	3,303,654.46	1.67	5,683.31
13,857.00	90.46	0.83	7,270.02	-2,032.22	5,780.03	1,564.16	1,584,312.19	3,303,655.70	1.48	5,774.26
13,948.00	90.07	358.46	7,269.60	-2,031.80	5,871.02	1,563.60	1,584,403.17	3,303,654.02	2.64	5,865.25
14,038.00	90.24	358.28	7,269.35	-2,031.55	5,960.99	1,561.04	1,584,493.09	3,303,650.35	0.28	5,955.23
14,129.00	91.43	0.83	7,268.03	-2,030.23	6,051.97	1,560.33	1,584,584.05	3,303,648.52	3.09	6,046.21
14,220.00	90.15	359.86	7,266.77	-2,028.97	6,142.95	1,560.88	1,584,675.04	3,303,647.95	1.76	6,137.19
14,311.00	90.37	0.57	7,266.36	-2,028.56	6,233.95	1,561.22	1,584,766.03	3,303,647.17	0.82	6,228.19
14,402.00	90.20	359.60	7,265.91	-2,028.11	6,324.95	1,561.36	1,584,857.03	3,303,646.18	1.08	6,319.18
14,494.00	90.24	357.84	7,265.55	-2,027.75	6,416.92	1,559.30	1,584,948.97	3,303,642.99	1.91	6,411.16
14,585.00	89.85	358.55	7,265.48	-2,027.68	6,507.88	1,556.44	1,585,039.88	3,303,639.00	0.89	6,502.13
14,676.00	90.73	0.48	7,265.02	-2,027.22	6,598.87	1,555.67	1,585,130.85	3,303,637.11	2.33	6,593.12
14,767.00	90.95	359.78	7,263.69	-2,025.89	6,689.85	1,555.87	1,585,221.84	3,303,636.20	0.81	6,684.11
14,858.00	91.34	359.51	7,261.87	-2,024.07	6,780.83	1,555.31	1,585,312.80	3,303,634.51	0.52	6,775.09
14,949.00	89.93	0.22	7,260.86	-2,023.06	6,871.83	1,555.09	1,585,403.79	3,303,633.17	1.73	6,866.08



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
15,040.00	90.33	0.13	7,260.65	-2,022.85	6,962.83	1,555.37	1,585,494.78	3,303,632.33	0.45	6,957.08
15,130.00	90.68	0.57	7,259.86	-2,022.06	7,052.82	1,555.92	1,585,584.78	3,303,631.77	0.62	7,047.07
15,240.00	90.37	359.42	7,258.85	-2,021.05	7,162.81	1,555.91	1,585,694.76	3,303,630.41	1.08	7,157.06
15,331.00	91.12	359.25	7,257.67	-2,019.87	7,253.80	1,554.86	1,585,785.73	3,303,628.23	0.85	7,248.05
15,422.00	91.52	358.99	7,255.57	-2,017.77	7,344.76	1,553.46	1,585,876.67	3,303,625.71	0.52	7,339.02
15,513.00	91.08	0.22	7,253.51	-2,015.71	7,435.74	1,552.83	1,585,967.63	3,303,623.96	1.44	7,429.99
15,604.00	89.98	0.57	7,252.67	-2,014.87	7,526.73	1,553.46	1,586,058.62	3,303,623.47	1.27	7,520.98
15,696.00	90.59	1.53	7,252.21	-2,014.41	7,618.71	1,555.14	1,586,150.61	3,303,624.02	1.24	7,612.96
15,787.00	89.32	1.09	7,252.28	-2,014.48	7,709.68	1,557.23	1,586,241.61	3,303,624.98	1.48	7,703.92
15,877.00	89.93	1.01	7,252.87	-2,015.07	7,799.67	1,558.87	1,586,331.60	3,303,625.52	0.68	7,793.90
15,968.00	89.36	359.86	7,253.43	-2,015.63	7,890.66	1,559.57	1,586,422.60	3,303,625.08	1.41	7,884.89
16,058.00	88.79	359.34	7,254.88	-2,017.08	7,980.65	1,558.94	1,586,512.57	3,303,623.35	0.86	7,974.88
16,149.00	88.53	359.07	7,257.01	-2,019.21	8,071.61	1,557.67	1,586,603.51	3,303,620.96	0.41	8,065.85
16,239.00	88.53	358.72	7,259.32	-2,021.52	8,161.57	1,555.94	1,586,693.44	3,303,618.12	0.39	8,155.81
16,330.00	89.58	0.39	7,260.82	-2,023.02	8,252.55	1,555.23	1,586,784.40	3,303,616.29	2.17	8,246.79
16,420.00	90.33	1.62	7,260.89	-2,023.09	8,342.53	1,556.81	1,586,874.40	3,303,616.76	1.60	8,336.77
16,511.00	90.99	1.09	7,259.85	-2,022.05	8,433.50	1,558.96	1,586,965.39	3,303,617.79	0.93	8,427.73
16,602.00	90.77	1.09	7,258.45	-2,020.65	8,524.47	1,560.69	1,587,056.37	3,303,618.40	0.24	8,518.69
16,695.00	91.56	0.74	7,256.56	-2,018.76	8,617.44	1,562.18	1,587,149.35	3,303,618.74	0.93	8,611.65
16,788.00	90.20	0.30	7,255.13	-2,017.33	8,710.42	1,563.02	1,587,242.34	3,303,618.44	1.54	8,704.63
16,881.00	89.85	359.86	7,255.09	-2,017.29	8,803.42	1,563.15	1,587,335.33	3,303,617.42	0.60	8,797.63
16,974.00	89.85	359.78	7,255.33	-2,017.53	8,896.42	1,562.86	1,587,428.32	3,303,615.98	0.09	8,890.63
17,066.00	89.27	0.57	7,256.04	-2,018.24	8,988.42	1,563.14	1,587,520.31	3,303,615.13	1.07	8,982.63
17,160.00	90.07	0.04	7,256.58	-2,018.78	9,082.41	1,563.64	1,587,614.31	3,303,614.47	1.02	9,076.62
17,253.00	89.14	359.51	7,257.22	-2,019.42	9,175.41	1,563.28	1,587,707.29	3,303,612.96	1.15	9,169.62
17,346.00	89.76	359.25	7,258.11	-2,020.31	9,268.40	1,562.27	1,587,800.26	3,303,610.80	0.72	9,262.61
17,439.00	90.90	359.42	7,257.58	-2,019.78	9,361.39	1,561.19	1,587,893.23	3,303,608.58	1.24	9,355.60



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 240-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 240-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 240-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 240-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 240-1411H	Database:	ROCKIES

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	V. Sec (usft)
17,532.00	88.92	358.72	7,257.72	-2,019.92	9,454.37	1,559.68	1,587,986.19	3,303,605.92	2.26	9,448.59
17,626.00	89.36	0.30	7,259.13	-2,021.33	9,548.35	1,558.88	1,588,080.16	3,303,603.96	1.74	9,542.58
17,720.00	90.15	1.36	7,259.54	-2,021.74	9,642.34	1,560.24	1,588,174.15	3,303,604.16	1.41	9,636.56
17,813.00	90.37	1.45	7,259.11	-2,021.31	9,735.31	1,562.52	1,588,267.14	3,303,605.30	0.26	9,729.52
17,907.00	90.55	0.48	7,258.36	-2,020.56	9,829.29	1,564.10	1,588,361.14	3,303,605.72	1.05	9,823.49
17,933.00	90.95	0.30	7,258.02	-2,020.22	9,855.29	1,564.28	1,588,387.14	3,303,605.58	1.69	9,849.49
17,992.00	90.95	0.30	7,257.04	-2,019.24	9,914.28	1,564.59	1,588,446.13	3,303,605.16	0.00	9,908.48

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,992.00	7,257.04	9,914.28	1,564.59	PROJECTION TO BIT

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