



HighPoint Resources

WELD COUNTY, CO
CRITTER CREEK 14 SW
CRITTER CREEK 540-1411H
CRITTER CREEK 540-1411H

Design: CRITTER CREEK 540-1411H

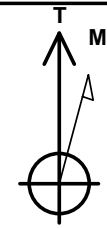
FINAL SURVEY REPORT

04 October, 2018



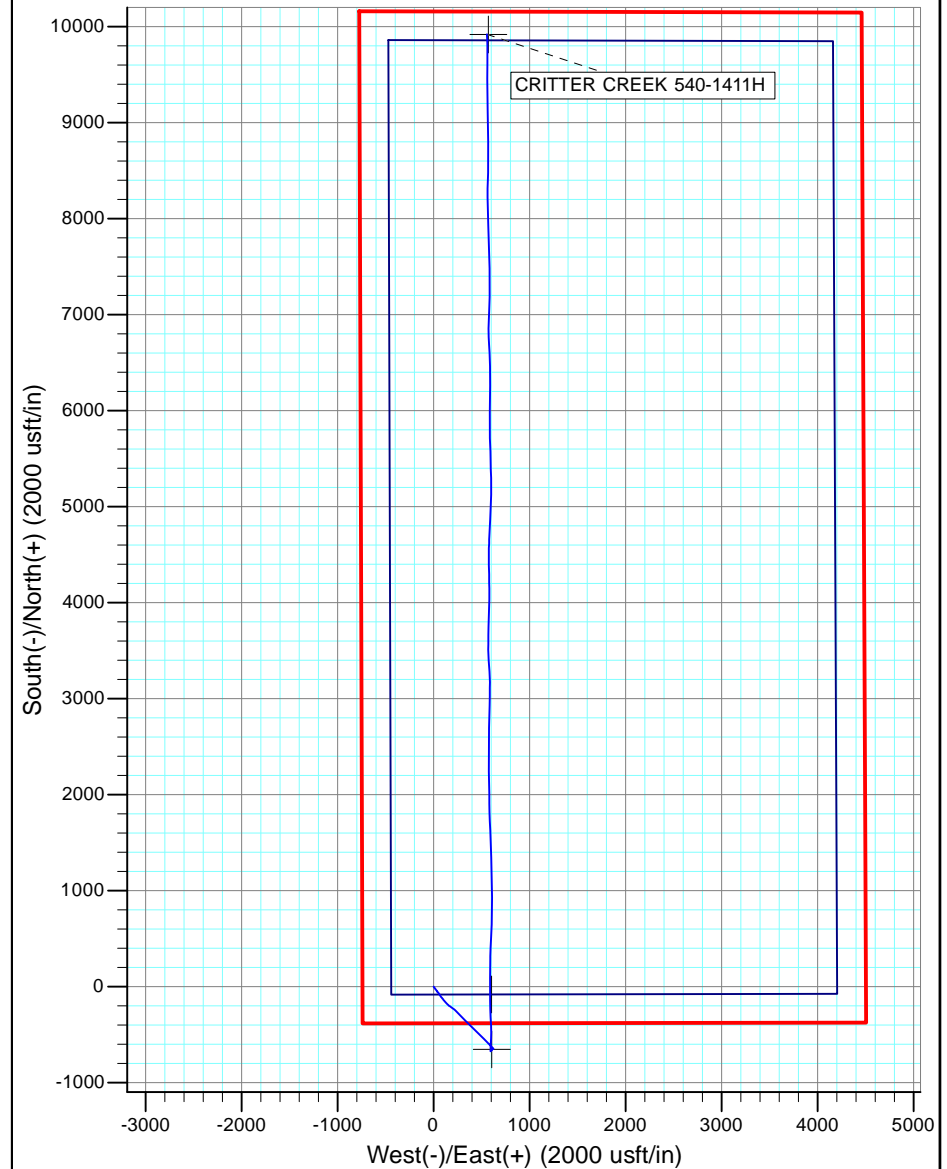
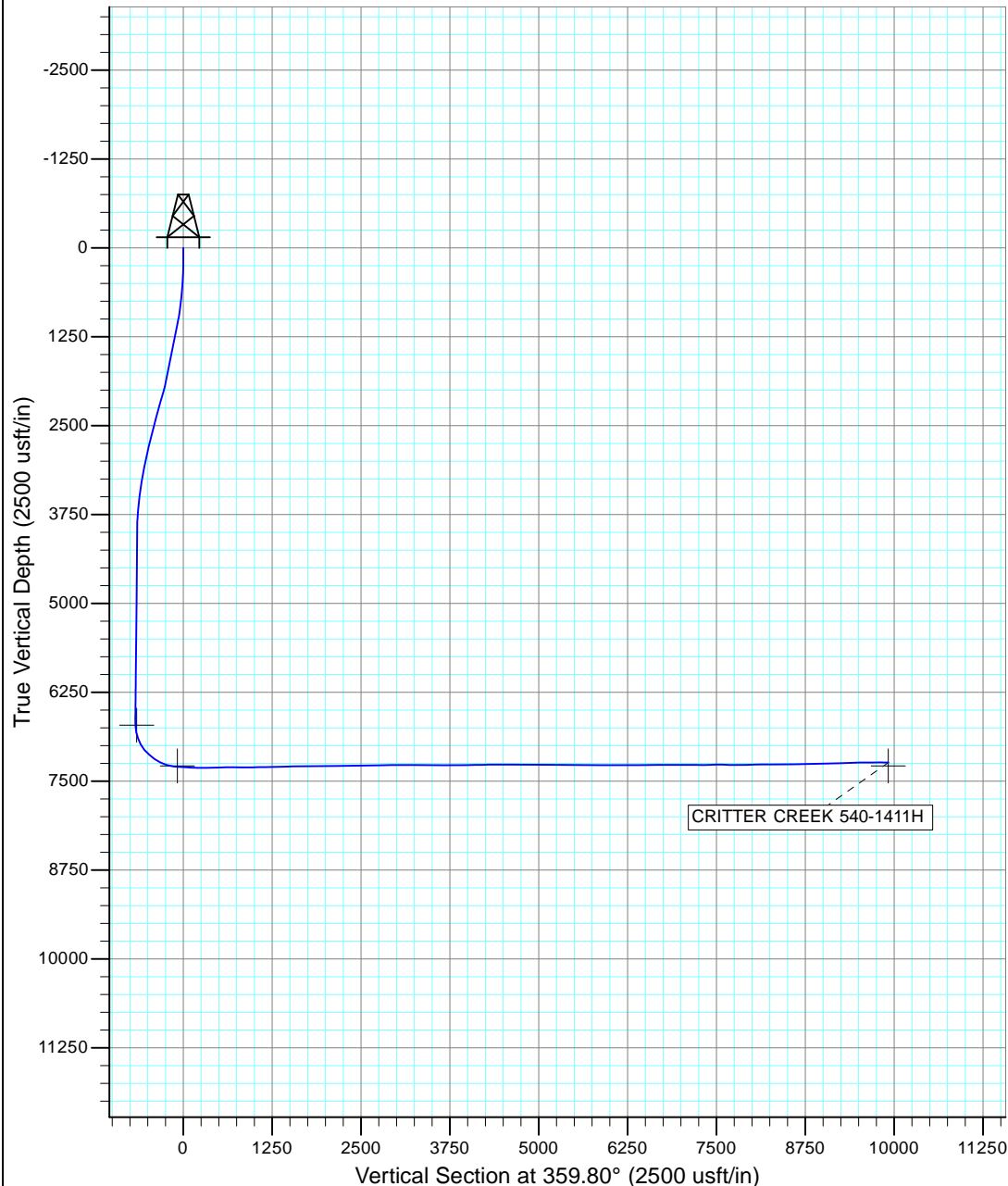


Project: WELD COUNTY, CO
Site: CRITTER CREEK 14 SW
Well: CRITTER CREEK 540-1411H
Wellpath: CRITTER CREEK 540-1411H
Design: CRITTER CREEK 540-1411H



Azimuths to True North
Magnetic North: 7.85°

Magnetic Field
Strength: 52466.1snT
Dip Angle: 67.27°
Date: 6/5/2019
Model: IGRF2015



FINAL PLOT



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 540-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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 540-1411H, SUR N. 1578512.93 E. 3302133.04				
Well Position	+N/-S	0.00 usft	Northing:	1,578,512.93 usft	Latitude:	40.916274
	+E/-W	0.00 usft	Easting:	3,302,133.04 usft	Longitude:	-104.406829
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,237.80 usft	Ground Level:	5,217.80 usft

Wellbore	CRITTER CREEK 540-1411H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/5/2019	7.85	67.27	52,466

Design	CRITTER CREEK 540-1411H			
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	359.80



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Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	Database:	ROCKIES

Survey Program		Date 10/4/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
126.50	1,496.50	Survey #1 (CRITTER CREEK 540-1411H)	MWD+IGRF	OWSG MWD + IGRF or WMM
1,613.00	17,761.00	Survey #2 (CRITTER CREEK 540-1411H)	MWD+IGRF	OWSG MWD + IGRF or WMM

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	1,578,512.93	3,302,133.04	0.00	0.00
126.50	0.26	301.83	126.50	5,111.30	0.15	-0.24	1,578,513.08	3,302,132.80	0.21	0.15
170.50	0.31	15.79	170.50	5,067.30	0.32	-0.30	1,578,513.24	3,302,132.74	0.78	0.32
214.50	0.57	135.28	214.50	5,023.30	0.28	-0.11	1,578,513.21	3,302,132.93	1.75	0.28
259.50	1.71	140.73	259.49	4,978.31	-0.40	0.47	1,578,512.53	3,302,133.52	2.54	-0.40
303.50	2.24	140.25	303.46	4,934.34	-1.57	1.44	1,578,511.38	3,302,134.50	1.21	-1.58
347.50	2.99	144.77	347.42	4,890.38	-3.17	2.65	1,578,509.79	3,302,135.73	1.77	-3.18
391.50	3.35	143.20	391.35	4,846.45	-5.14	4.08	1,578,507.84	3,302,137.19	0.84	-5.15
436.50	3.86	145.51	436.26	4,801.54	-7.44	5.73	1,578,505.56	3,302,138.86	1.18	-7.46
480.50	4.56	147.07	480.14	4,757.66	-10.13	7.52	1,578,502.90	3,302,140.68	1.61	-10.15
524.50	5.01	142.66	523.99	4,713.81	-13.12	9.63	1,578,499.93	3,302,142.84	1.32	-13.16
569.50	5.23	140.91	568.81	4,668.99	-16.28	12.12	1,578,496.80	3,302,145.36	0.60	-16.32
613.50	5.71	142.01	612.61	4,625.19	-19.56	14.73	1,578,493.56	3,302,148.01	1.12	-19.61
657.50	6.68	143.06	656.35	4,581.45	-23.33	17.62	1,578,489.82	3,302,150.94	2.22	-23.39
701.50	7.16	142.14	700.03	4,537.77	-27.54	20.84	1,578,485.65	3,302,154.22	1.12	-27.61
745.50	7.47	143.76	743.67	4,494.13	-32.01	24.21	1,578,481.22	3,302,157.64	0.85	-32.09
790.50	7.82	143.85	788.27	4,449.53	-36.84	27.74	1,578,476.43	3,302,161.24	0.78	-36.94
834.50	8.66	143.28	831.82	4,405.98	-41.91	31.49	1,578,471.41	3,302,165.05	1.92	-42.02
878.50	15.00	143.00	874.86	4,362.94	-49.12	36.90	1,578,464.26	3,302,170.55	14.41	-49.25
923.50	9.92	145.01	918.79	4,319.01	-56.96	42.64	1,578,456.50	3,302,176.38	11.33	-57.10
954.50	10.85	144.95	949.28	4,288.52	-61.53	45.84	1,578,451.97	3,302,179.64	3.00	-61.69



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 540-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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)
986.50	12.08	144.11	980.64	4,257.16	-66.71	49.53	1,578,446.84	3,302,183.40	3.88	-66.88
1,018.50	12.44	143.32	1,011.91	4,225.89	-72.19	53.56	1,578,441.41	3,302,187.48	1.24	-72.37
1,049.50	12.30	143.90	1,042.19	4,195.61	-77.53	57.50	1,578,436.11	3,302,191.49	0.60	-77.73
1,081.50	12.83	144.33	1,073.42	4,164.38	-83.17	61.58	1,578,430.52	3,302,195.64	1.68	-83.39
1,113.50	13.36	143.54	1,104.59	4,133.21	-89.03	65.85	1,578,424.72	3,302,199.98	1.75	-89.26
1,144.50	13.89	143.98	1,134.72	4,103.08	-94.92	70.16	1,578,418.88	3,302,204.37	1.74	-95.17
1,176.50	14.28	144.91	1,165.76	4,072.04	-101.26	74.69	1,578,412.60	3,302,208.97	1.41	-101.52
1,207.50	14.50	143.85	1,195.78	4,042.02	-107.52	79.18	1,578,406.39	3,302,213.54	1.11	-107.80
1,239.50	14.37	143.98	1,226.77	4,011.03	-113.97	83.88	1,578,400.00	3,302,218.32	0.42	-114.26
1,271.50	14.38	144.03	1,257.77	3,980.03	-120.40	88.54	1,578,393.64	3,302,223.06	0.05	-120.70
1,302.50	14.81	139.24	1,287.77	3,950.03	-126.51	93.39	1,578,387.58	3,302,227.99	4.13	-126.84
1,334.50	14.55	140.12	1,318.73	3,919.07	-132.69	98.64	1,578,381.46	3,302,233.31	1.07	-133.04
1,366.50	14.99	139.81	1,349.67	3,888.13	-138.94	103.89	1,578,375.28	3,302,238.64	1.40	-139.30
1,397.50	14.46	139.59	1,379.65	3,858.15	-144.95	108.98	1,578,369.33	3,302,243.81	1.72	-145.33
1,429.50	14.77	138.84	1,410.62	3,827.18	-151.06	114.26	1,578,363.29	3,302,249.15	1.13	-151.46
1,460.50	14.90	139.37	1,440.58	3,797.22	-157.06	119.45	1,578,357.35	3,302,254.42	0.61	-157.48
1,496.50	15.12	139.19	1,475.35	3,762.45	-164.13	125.54	1,578,350.36	3,302,260.59	0.62	-164.57
1,613.00	17.98	133.11	1,587.03	3,650.77	-187.92	148.60	1,578,326.85	3,302,283.95	2.87	-188.44
1,703.00	15.52	125.72	1,673.21	3,564.59	-204.45	168.52	1,578,310.57	3,302,304.07	3.61	-205.04
1,795.00	17.19	124.84	1,761.48	3,476.32	-219.41	189.68	1,578,295.88	3,302,325.41	1.84	-220.07
1,886.00	18.90	129.50	1,848.01	3,389.79	-236.46	212.09	1,578,279.10	3,302,348.03	2.46	-237.20
1,976.00	20.22	131.96	1,932.82	3,304.98	-256.14	234.90	1,578,259.71	3,302,371.08	1.73	-256.95
2,066.00	22.11	134.25	2,016.74	3,221.06	-278.36	258.60	1,578,237.78	3,302,395.06	2.29	-279.26
2,156.00	22.24	137.32	2,100.09	3,137.71	-302.70	282.28	1,578,213.74	3,302,419.03	1.30	-303.68
2,247.00	22.15	136.27	2,184.35	3,053.45	-327.75	305.81	1,578,188.97	3,302,442.87	0.45	-328.82
2,338.00	21.45	136.62	2,268.84	2,968.96	-352.24	329.10	1,578,164.77	3,302,466.46	0.78	-353.39
2,432.00	20.84	136.09	2,356.51	2,881.29	-376.78	352.50	1,578,140.52	3,302,490.16	0.68	-378.01



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Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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)
2,525.00	19.87	134.34	2,443.70	2,794.10	-399.75	375.28	1,578,117.84	3,302,513.22	1.23	-401.05
2,619.00	19.03	134.69	2,532.34	2,705.46	-421.69	397.60	1,578,096.17	3,302,535.81	0.90	-423.07
2,713.00	17.71	134.60	2,621.54	2,616.26	-442.51	418.68	1,578,075.62	3,302,557.14	1.40	-443.97
2,807.00	19.08	133.37	2,710.74	2,527.06	-463.10	440.03	1,578,055.29	3,302,578.74	1.51	-464.63
2,900.00	18.15	131.88	2,798.87	2,438.93	-483.21	461.86	1,578,035.45	3,302,600.82	1.12	-484.82
2,994.00	18.20	134.16	2,888.18	2,349.62	-503.21	483.29	1,578,015.72	3,302,622.50	0.76	-504.89
3,088.00	17.98	135.22	2,977.54	2,260.26	-523.73	504.04	1,577,995.45	3,302,643.50	0.42	-525.49
3,182.00	17.36	134.25	3,067.10	2,170.70	-543.82	524.31	1,577,975.62	3,302,664.01	0.73	-545.64
3,275.00	15.30	138.29	3,156.35	2,081.45	-562.66	542.41	1,577,957.00	3,302,682.35	2.53	-564.55
3,369.00	13.32	135.22	3,247.43	1,990.37	-579.61	558.29	1,577,940.25	3,302,698.44	2.26	-581.55
3,464.00	11.16	135.04	3,340.26	1,897.54	-593.88	572.50	1,577,926.15	3,302,712.82	2.27	-595.88
3,557.00	9.14	138.56	3,431.80	1,806.00	-605.79	583.75	1,577,914.38	3,302,724.22	2.27	-607.82
3,652.00	9.01	137.06	3,525.62	1,712.18	-616.89	593.81	1,577,903.41	3,302,734.41	0.28	-618.96
3,746.00	6.81	136.09	3,618.72	1,619.08	-626.29	602.69	1,577,894.11	3,302,743.41	2.34	-628.39
3,840.00	6.90	136.01	3,712.04	1,525.76	-634.37	610.48	1,577,886.13	3,302,751.29	0.10	-636.50
3,934.00	6.29	133.55	3,805.42	1,432.38	-641.98	618.13	1,577,878.62	3,302,759.04	0.72	-644.14
4,028.00	2.55	139.70	3,899.13	1,338.67	-647.13	623.22	1,577,873.53	3,302,764.19	4.00	-649.30
4,122.00	0.53	269.25	3,993.10	1,244.70	-648.73	624.14	1,577,871.95	3,302,765.13	3.10	-650.90
4,216.00	0.48	290.34	4,087.09	1,150.71	-648.60	623.33	1,577,872.07	3,302,764.32	0.20	-650.77
4,311.00	1.76	253.34	4,182.07	1,055.73	-648.88	621.56	1,577,871.76	3,302,762.56	1.48	-651.04
4,405.00	1.93	251.93	4,276.03	961.77	-649.78	618.67	1,577,870.82	3,302,759.68	0.19	-651.94
4,499.00	1.89	258.35	4,369.97	867.83	-650.59	615.65	1,577,869.98	3,302,756.67	0.23	-652.73
4,593.00	2.15	258.09	4,463.92	773.88	-651.26	612.41	1,577,869.27	3,302,753.43	0.28	-653.40
4,687.00	0.66	199.73	4,557.89	679.91	-652.14	610.50	1,577,868.37	3,302,751.53	2.01	-654.26
4,782.00	0.57	203.51	4,652.88	584.92	-653.08	610.13	1,577,867.42	3,302,751.17	0.10	-655.21
4,875.00	0.70	216.51	4,745.88	491.92	-653.97	609.60	1,577,866.53	3,302,750.66	0.21	-656.09
4,969.00	0.57	204.56	4,839.87	397.93	-654.85	609.07	1,577,865.64	3,302,750.14	0.20	-656.97



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5,064.00	0.18	202.63	4,934.87	302.93	-655.42	608.81	1,577,865.07	3,302,749.89	0.41	-657.54
5,158.00	0.22	304.58	5,028.87	208.93	-655.45	608.61	1,577,865.03	3,302,749.68	0.33	-657.57
5,252.00	1.41	224.60	5,122.86	114.94	-656.17	607.65	1,577,864.30	3,302,748.73	1.48	-658.29
5,346.00	1.01	216.69	5,216.84	20.96	-657.66	606.34	1,577,862.79	3,302,747.44	0.46	-659.77
5,441.00	0.92	217.48	5,311.82	-74.02	-658.94	605.38	1,577,861.50	3,302,746.50	0.10	-661.05
5,535.00	0.88	225.83	5,405.81	-168.01	-660.04	604.40	1,577,860.39	3,302,745.53	0.15	-662.15
5,629.00	0.44	187.95	5,499.81	-262.01	-660.90	603.83	1,577,859.52	3,302,744.98	0.64	-663.00
5,722.00	0.48	115.09	5,592.80	-355.00	-661.42	604.14	1,577,859.01	3,302,745.29	0.59	-663.52
5,816.00	0.44	68.51	5,686.80	-449.00	-661.45	604.83	1,577,858.98	3,302,745.98	0.39	-663.56
5,909.00	1.05	206.49	5,779.80	-542.00	-662.09	604.78	1,577,858.35	3,302,745.94	1.51	-664.19
6,002.00	0.97	219.68	5,872.78	-634.98	-663.46	603.90	1,577,856.97	3,302,745.07	0.26	-665.56
6,095.00	0.97	206.58	5,965.77	-727.97	-664.76	603.04	1,577,855.65	3,302,744.23	0.24	-666.87
6,188.00	0.48	209.31	6,058.76	-820.96	-665.81	602.50	1,577,854.60	3,302,743.70	0.53	-667.91
6,282.00	1.05	234.88	6,152.75	-914.95	-666.65	601.60	1,577,853.75	3,302,742.82	0.69	-668.74
6,376.00	0.84	227.41	6,246.74	-1,008.94	-667.61	600.39	1,577,852.77	3,302,741.62	0.26	-669.70
6,470.00	0.84	224.42	6,340.73	-1,102.93	-668.57	599.40	1,577,851.80	3,302,740.64	0.05	-670.66
6,564.00	1.63	230.14	6,434.71	-1,196.91	-669.92	597.89	1,577,850.43	3,302,739.15	0.85	-672.00
6,658.00	1.23	223.02	6,528.68	-1,290.88	-671.51	596.18	1,577,848.82	3,302,737.45	0.46	-673.59
6,752.00	1.41	227.50	6,622.65	-1,384.85	-673.03	594.64	1,577,847.28	3,302,735.93	0.22	-675.10
6,846.00	2.15	338.42	6,716.63	-1,478.83	-672.17	593.14	1,577,848.12	3,302,734.42	3.15	-674.24
6,939.00	12.22	5.23	6,808.79	-1,570.99	-660.72	593.39	1,577,859.58	3,302,734.53	11.12	-662.78
7,033.00	19.87	2.76	6,899.06	-1,661.26	-634.81	595.07	1,577,885.50	3,302,735.89	8.17	-636.89
7,126.00	28.79	3.03	6,983.72	-1,745.92	-596.59	597.02	1,577,923.75	3,302,737.37	9.59	-598.67
7,221.00	40.04	1.62	7,061.96	-1,824.16	-543.03	599.10	1,577,977.33	3,302,738.79	11.87	-545.11
7,315.00	49.23	359.34	7,128.79	-1,890.99	-477.06	599.54	1,578,043.29	3,302,738.42	9.92	-479.15
7,409.00	54.99	357.58	7,186.50	-1,948.70	-402.94	597.51	1,578,117.38	3,302,735.47	6.30	-405.03
7,502.00	63.08	357.14	7,234.31	-1,996.51	-323.35	593.82	1,578,196.93	3,302,730.81	8.71	-325.42



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 540-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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)
7,596.00	72.13	358.55	7,270.08	-2,032.28	-236.59	590.59	1,578,283.64	3,302,726.51	9.73	-238.65
7,689.00	82.33	358.46	7,290.61	-2,052.81	-146.04	588.23	1,578,374.15	3,302,723.03	10.97	-148.10
7,730.00	85.85	0.13	7,294.83	-2,057.03	-105.27	587.73	1,578,414.91	3,302,722.03	9.49	-107.32
7,871.00	86.73	359.86	7,303.96	-2,066.16	35.43	587.72	1,578,555.60	3,302,720.28	0.65	33.38
7,965.00	87.25	0.48	7,308.89	-2,071.09	129.30	588.00	1,578,649.47	3,302,719.40	0.86	127.25
8,058.00	89.27	0.74	7,311.72	-2,073.92	222.25	588.99	1,578,742.42	3,302,719.24	2.19	220.19
8,153.00	91.52	1.80	7,311.06	-2,073.26	317.21	591.09	1,578,837.41	3,302,720.18	2.62	315.15
8,247.00	91.78	2.33	7,308.36	-2,070.56	411.11	594.48	1,578,931.34	3,302,722.41	0.63	409.04
8,340.00	91.16	1.80	7,305.97	-2,068.17	504.02	597.83	1,579,024.28	3,302,724.61	0.88	501.93
8,434.00	90.11	2.33	7,304.93	-2,067.13	597.95	601.21	1,579,118.25	3,302,726.84	1.25	595.85
8,527.00	90.42	2.59	7,304.50	-2,066.70	690.87	605.21	1,579,211.20	3,302,729.68	0.44	688.75
8,622.00	89.19	0.74	7,304.82	-2,067.02	785.82	607.97	1,579,306.18	3,302,731.27	2.34	783.69
8,716.00	89.76	0.39	7,305.68	-2,067.88	879.81	608.89	1,579,400.18	3,302,731.04	0.71	877.68
8,809.00	91.52	0.39	7,304.64	-2,066.84	972.80	609.53	1,579,493.17	3,302,730.53	1.89	970.67
8,903.00	91.08	359.16	7,302.51	-2,064.71	1,066.77	609.16	1,579,587.13	3,302,729.00	1.39	1,064.64
8,997.00	90.46	357.58	7,301.25	-2,063.45	1,160.72	606.48	1,579,681.04	3,302,725.17	1.81	1,158.60
9,090.00	92.26	357.84	7,299.04	-2,061.24	1,253.62	602.77	1,579,773.88	3,302,720.31	1.96	1,251.51
9,184.00	91.91	357.84	7,295.62	-2,057.82	1,347.49	599.23	1,579,867.70	3,302,715.61	0.37	1,345.39
9,277.00	90.73	357.84	7,293.48	-2,055.68	1,440.40	595.72	1,579,960.56	3,302,710.96	1.27	1,438.31
9,371.00	90.68	358.18	7,292.32	-2,054.52	1,534.33	592.46	1,580,054.45	3,302,706.54	0.37	1,532.26
9,465.00	90.73	357.93	7,291.17	-2,053.37	1,628.27	589.27	1,580,148.34	3,302,702.19	0.27	1,626.20
9,559.00	90.99	358.19	7,289.75	-2,051.95	1,722.21	586.09	1,580,242.23	3,302,697.85	0.39	1,720.15
9,653.00	89.76	357.84	7,289.14	-2,051.34	1,816.15	582.83	1,580,336.12	3,302,693.44	1.36	1,814.10
9,746.00	91.03	359.51	7,288.50	-2,050.70	1,909.11	580.68	1,580,429.06	3,302,690.14	2.26	1,907.08
9,841.00	91.25	0.04	7,286.61	-2,048.81	2,004.09	580.31	1,580,524.03	3,302,688.60	0.60	2,002.06
9,934.00	90.51	359.34	7,285.18	-2,047.38	2,097.08	579.80	1,580,617.00	3,302,686.95	1.10	2,095.04
10,027.00	90.20	358.19	7,284.60	-2,046.80	2,190.06	577.80	1,580,709.94	3,302,683.80	1.28	2,188.03



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 540-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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)
10,121.00	91.03	359.34	7,283.59	-2,045.79	2,284.03	575.77	1,580,803.88	3,302,680.62	1.51	2,282.00
10,215.00	91.52	0.39	7,281.50	-2,043.70	2,378.00	575.55	1,580,897.84	3,302,679.24	1.23	2,375.98
10,308.00	90.20	359.16	7,280.11	-2,042.31	2,470.99	575.19	1,580,990.82	3,302,677.72	1.94	2,468.96
10,402.00	90.42	1.18	7,279.60	-2,041.80	2,564.98	575.47	1,581,084.81	3,302,676.84	2.16	2,562.95
10,495.00	89.71	1.71	7,279.49	-2,041.69	2,657.95	577.81	1,581,177.80	3,302,678.04	0.95	2,655.92
10,588.00	92.79	2.06	7,277.46	-2,039.66	2,750.86	580.87	1,581,270.75	3,302,679.96	3.33	2,748.82
10,677.00	91.38	0.92	7,274.23	-2,036.43	2,839.77	583.18	1,581,359.68	3,302,681.17	2.04	2,837.72
10,768.00	90.73	0.83	7,272.55	-2,034.75	2,930.75	584.57	1,581,450.66	3,302,681.44	0.72	2,928.69
10,859.00	90.15	1.18	7,271.85	-2,034.05	3,021.73	586.17	1,581,541.65	3,302,681.91	0.74	3,019.66
10,950.00	89.49	0.13	7,272.14	-2,034.34	3,112.72	587.21	1,581,632.65	3,302,681.83	1.36	3,110.65
11,042.00	89.76	358.99	7,272.74	-2,034.94	3,204.71	586.50	1,581,724.63	3,302,679.99	1.27	3,202.65
11,133.00	89.76	354.85	7,273.12	-2,035.32	3,295.56	581.61	1,581,815.41	3,302,673.98	4.55	3,293.51
11,224.00	90.68	356.96	7,272.77	-2,034.97	3,386.32	575.11	1,581,906.08	3,302,666.37	2.53	3,384.29
11,315.00	89.23	358.02	7,272.84	-2,035.04	3,477.23	571.13	1,581,996.94	3,302,661.26	1.97	3,475.22
11,407.00	89.45	0.30	7,273.90	-2,036.10	3,569.21	569.78	1,582,088.89	3,302,658.78	2.49	3,567.20
11,498.00	89.45	1.01	7,274.78	-2,036.98	3,660.20	570.82	1,582,179.89	3,302,658.70	0.78	3,658.18
11,588.00	89.85	1.45	7,275.33	-2,037.53	3,750.18	572.75	1,582,269.88	3,302,659.52	0.66	3,748.15
11,679.00	89.85	1.27	7,275.56	-2,037.76	3,841.15	574.91	1,582,360.88	3,302,660.56	0.20	3,839.12
11,771.00	92.00	1.62	7,274.08	-2,036.28	3,933.10	577.23	1,582,452.85	3,302,661.75	2.37	3,931.06
11,862.00	91.78	1.01	7,271.08	-2,033.28	4,024.03	579.32	1,582,543.79	3,302,662.71	0.71	4,021.98
11,952.00	91.38	0.30	7,268.60	-2,030.80	4,113.99	580.35	1,582,633.76	3,302,662.63	0.91	4,111.94
12,043.00	89.36	357.75	7,268.01	-2,030.21	4,204.96	578.80	1,582,724.71	3,302,659.96	3.57	4,202.91
12,135.00	91.03	0.39	7,267.70	-2,029.90	4,296.94	577.31	1,582,816.66	3,302,657.33	3.40	4,294.90
12,226.00	89.19	358.99	7,267.52	-2,029.72	4,387.93	576.81	1,582,907.64	3,302,655.72	2.54	4,385.89
12,317.00	90.37	0.22	7,267.87	-2,030.07	4,478.92	576.19	1,582,998.62	3,302,653.97	1.87	4,476.88
12,406.00	90.15	0.48	7,267.47	-2,029.67	4,567.92	576.73	1,583,087.61	3,302,653.42	0.38	4,565.88
12,497.00	90.02	1.62	7,267.33	-2,029.53	4,658.90	578.40	1,583,178.61	3,302,653.96	1.26	4,656.86



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 540-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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)
12,588.00	90.11	3.82	7,267.23	-2,029.43	4,749.80	582.72	1,583,269.55	3,302,657.16	2.42	4,747.73
12,678.00	89.98	3.47	7,267.16	-2,029.36	4,839.61	588.44	1,583,359.43	3,302,661.77	0.41	4,837.53
12,769.00	89.19	2.24	7,267.82	-2,030.02	4,930.50	592.97	1,583,450.36	3,302,665.19	1.61	4,928.40
12,860.00	90.68	2.68	7,267.92	-2,030.12	5,021.41	596.88	1,583,541.31	3,302,667.97	1.71	5,019.29
12,952.00	88.22	0.30	7,268.80	-2,031.00	5,113.36	599.27	1,583,633.29	3,302,669.23	3.72	5,111.24
13,043.00	90.20	359.25	7,270.06	-2,032.26	5,204.34	598.91	1,583,724.26	3,302,667.75	2.46	5,202.22
13,133.00	90.24	358.90	7,269.71	-2,031.91	5,294.33	597.46	1,583,814.22	3,302,665.19	0.39	5,292.21
13,224.00	90.33	359.34	7,269.26	-2,031.46	5,385.32	596.06	1,583,905.19	3,302,662.67	0.49	5,383.21
13,319.00	89.89	358.63	7,269.08	-2,031.28	5,480.30	594.38	1,584,000.14	3,302,659.82	0.88	5,478.20
13,413.00	89.36	358.63	7,269.69	-2,031.89	5,574.27	592.13	1,584,094.08	3,302,656.41	0.56	5,572.17
13,507.00	88.57	357.75	7,271.39	-2,033.59	5,668.21	589.16	1,584,187.97	3,302,652.28	1.26	5,666.12
13,601.00	89.23	359.07	7,273.20	-2,035.40	5,762.15	586.55	1,584,281.88	3,302,648.52	1.57	5,760.07
13,693.00	88.44	358.99	7,275.07	-2,037.27	5,854.12	585.00	1,584,373.82	3,302,645.83	0.86	5,852.04
13,784.00	89.67	1.62	7,276.57	-2,038.77	5,945.10	585.48	1,584,464.79	3,302,645.19	3.19	5,943.02
13,874.00	91.30	0.92	7,275.80	-2,038.00	6,035.07	587.48	1,584,554.78	3,302,646.08	1.97	6,032.98
13,965.00	90.33	0.04	7,274.51	-2,036.71	6,126.05	588.24	1,584,645.77	3,302,645.72	1.44	6,123.96
14,056.00	91.91	0.30	7,272.73	-2,034.93	6,217.03	588.51	1,584,736.75	3,302,644.86	1.76	6,214.94
14,147.00	91.21	359.86	7,270.25	-2,032.45	6,308.00	588.63	1,584,827.71	3,302,643.87	0.91	6,305.91
14,238.00	90.68	358.99	7,268.75	-2,030.95	6,398.98	587.72	1,584,918.67	3,302,641.84	1.12	6,396.89
14,330.00	89.89	358.55	7,268.30	-2,030.50	6,490.96	585.75	1,585,010.62	3,302,638.73	0.98	6,488.87
14,421.00	89.54	357.75	7,268.75	-2,030.95	6,581.91	582.81	1,585,101.52	3,302,634.67	0.96	6,579.83
14,512.00	89.41	356.96	7,269.58	-2,031.78	6,672.81	578.61	1,585,192.36	3,302,629.35	0.88	6,670.75
14,603.00	89.85	357.05	7,270.17	-2,032.37	6,763.68	573.86	1,585,283.17	3,302,623.47	0.49	6,761.64
14,694.00	90.95	1.53	7,269.53	-2,031.73	6,854.65	572.73	1,585,374.12	3,302,621.23	5.07	6,852.61
14,785.00	90.46	2.15	7,268.41	-2,030.61	6,945.59	575.65	1,585,465.09	3,302,623.03	0.87	6,943.54
14,876.00	90.15	2.24	7,267.93	-2,030.13	7,036.52	579.13	1,585,556.06	3,302,625.39	0.35	7,034.46
14,968.00	89.23	1.89	7,268.43	-2,030.63	7,128.46	582.45	1,585,648.03	3,302,627.57	1.07	7,126.39



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 540-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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)
15,059.00	88.48	1.09	7,270.25	-2,032.45	7,219.41	584.82	1,585,739.00	3,302,628.82	1.20	7,217.33
15,149.00	91.16	359.60	7,270.53	-2,032.73	7,309.40	585.36	1,585,828.99	3,302,628.25	3.41	7,307.31
15,240.00	91.96	359.42	7,268.05	-2,030.25	7,400.36	584.58	1,585,919.94	3,302,626.35	0.90	7,398.28
15,330.00	89.58	357.49	7,266.84	-2,029.04	7,490.31	582.15	1,586,009.85	3,302,622.81	3.40	7,488.23
15,421.00	89.36	359.34	7,267.68	-2,029.88	7,581.27	579.64	1,586,100.77	3,302,619.18	2.05	7,579.20
15,511.00	89.27	358.81	7,268.76	-2,030.96	7,671.25	578.18	1,586,190.72	3,302,616.61	0.60	7,669.18
15,602.00	88.66	357.84	7,270.40	-2,032.60	7,762.19	575.52	1,586,281.63	3,302,612.83	1.26	7,760.14
15,692.00	91.52	358.72	7,270.26	-2,032.46	7,852.14	572.82	1,586,371.54	3,302,609.02	3.32	7,850.09
15,783.00	91.34	358.37	7,267.99	-2,030.19	7,943.08	570.51	1,586,462.44	3,302,605.59	0.43	7,941.04
15,874.00	90.99	357.40	7,266.14	-2,028.34	8,034.00	567.16	1,586,553.31	3,302,601.12	1.13	8,031.97
15,967.00	91.43	358.63	7,264.18	-2,026.38	8,126.92	563.93	1,586,646.19	3,302,596.75	1.40	8,124.91
16,060.00	89.58	359.34	7,263.36	-2,025.56	8,219.90	562.29	1,586,739.14	3,302,593.96	2.13	8,217.89
16,154.00	89.49	1.27	7,264.12	-2,026.32	8,313.89	562.79	1,586,833.13	3,302,593.30	2.06	8,311.88
16,247.00	89.89	1.97	7,264.62	-2,026.82	8,406.85	565.42	1,586,926.11	3,302,594.78	0.87	8,404.83
16,340.00	92.44	1.62	7,262.73	-2,024.93	8,499.78	568.33	1,587,019.07	3,302,596.55	2.77	8,497.74
16,433.00	91.87	0.83	7,259.24	-2,021.44	8,592.69	570.32	1,587,112.00	3,302,597.39	1.05	8,590.65
16,526.00	90.68	359.42	7,257.17	-2,019.37	8,685.66	570.52	1,587,204.97	3,302,596.44	1.98	8,683.62
16,619.00	89.10	358.28	7,257.35	-2,019.55	8,778.64	568.65	1,587,297.91	3,302,593.43	2.09	8,776.60
16,712.00	91.08	359.07	7,257.20	-2,019.40	8,871.61	566.50	1,587,390.85	3,302,590.14	2.29	8,869.58
16,806.00	90.46	359.25	7,255.94	-2,018.14	8,965.59	565.12	1,587,484.81	3,302,587.60	0.69	8,963.56
16,898.00	92.62	0.04	7,253.46	-2,015.66	9,057.55	564.55	1,587,576.75	3,302,585.90	2.50	9,055.52
16,991.00	92.44	358.99	7,249.36	-2,011.56	9,150.46	563.77	1,587,669.64	3,302,583.96	1.14	9,148.43
17,084.00	93.14	359.07	7,244.83	-2,007.03	9,243.33	562.19	1,587,762.49	3,302,581.25	0.76	9,241.31
17,177.00	91.82	359.60	7,240.81	-2,003.01	9,336.24	561.12	1,587,855.37	3,302,579.02	1.53	9,334.22
17,271.00	92.26	0.39	7,237.46	-1,999.66	9,430.17	561.11	1,587,949.31	3,302,577.86	0.96	9,428.16
17,364.00	89.07	359.18	7,236.38	-1,998.58	9,523.15	560.76	1,588,042.27	3,302,576.36	3.67	9,521.14
17,457.00	90.75	0.16	7,236.53	-1,998.73	9,616.15	560.22	1,588,135.25	3,302,574.68	2.09	9,614.13



GeoGuidance Drilling FINAL SURVEY REPORT



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well CRITTER CREEK 540-1411H
Project:	WELD COUNTY, CO	TVD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Site:	CRITTER CREEK 14 SW	MD Reference:	CRITTER CREEK 540-1411H @ 5237.80usft (SAVANN
Well:	CRITTER CREEK 540-1411H	North Reference:	True
Wellbore:	CRITTER CREEK 540-1411H	Survey Calculation Method:	Minimum Curvature
Design:	CRITTER CREEK 540-1411H	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)
17,551.00	90.33	0.26	7,235.64	-1,997.84	9,710.14	560.57	1,588,229.25	3,302,573.87	0.46	9,708.13
17,645.00	90.01	359.11	7,235.36	-1,997.56	9,804.14	560.05	1,588,323.23	3,302,572.19	1.27	9,802.12
17,704.00	89.55	358.41	7,235.59	-1,997.79	9,863.12	558.77	1,588,382.19	3,302,570.19	1.42	9,861.11
17,761.00	89.55	358.41	7,236.04	-1,998.24	9,920.10	557.19	1,588,439.15	3,302,567.90	0.00	9,918.10

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
17,761.00	7,236.04	9,920.10	557.19	PROJECTION TO TD	

Checked By: _____	Approved By: _____	Date: _____
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