



HighPoint Resources
Project: Weld County, CO (NAD83)
Site: Sec 34-T12N-R63W
Well: Fox Creek 34-0164D
Wellbore: Wellbore #1
Design: Wellbore #1 (Fox Creek 34-0164D/Wellbore #1)
Savanna 802

PROJECT DETAILS: Weld County, CO (NAD83)
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

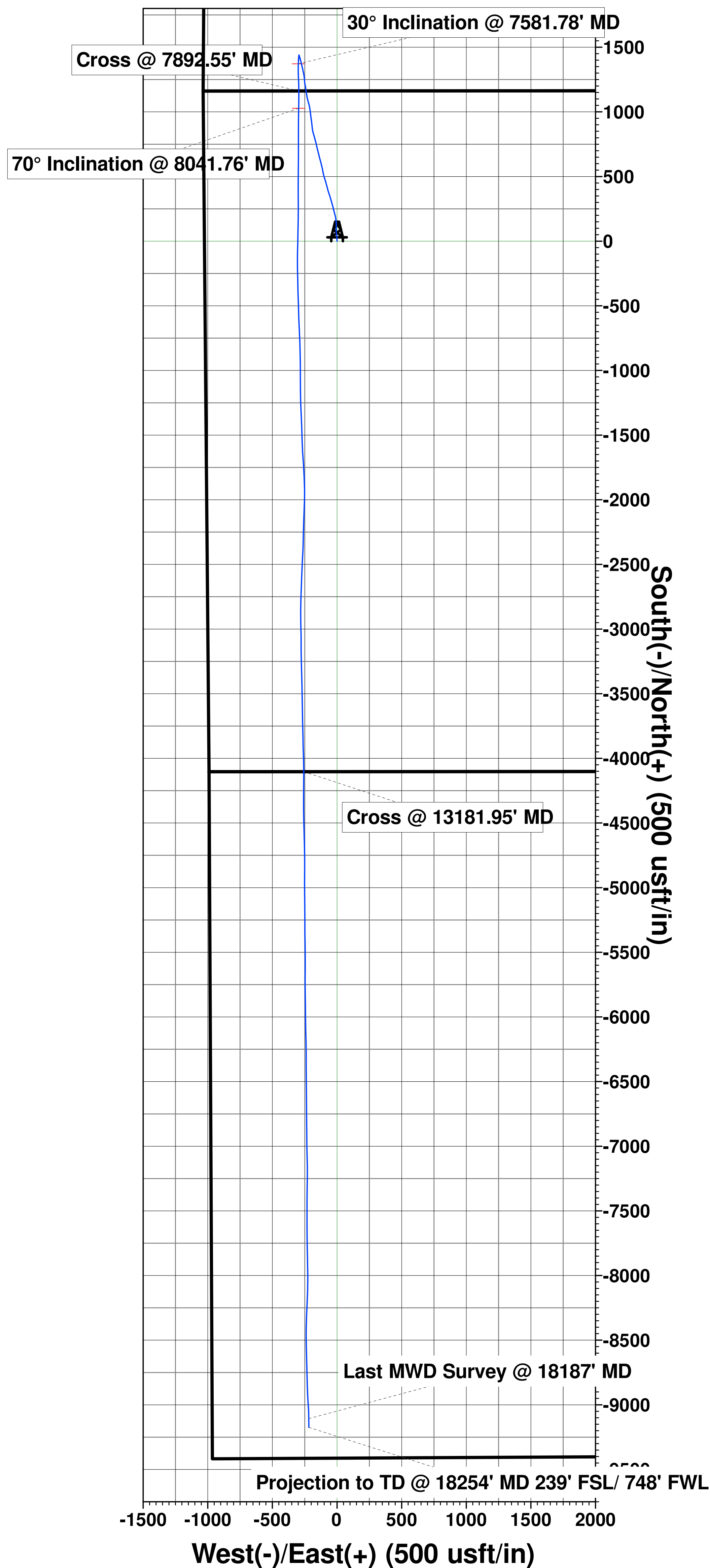
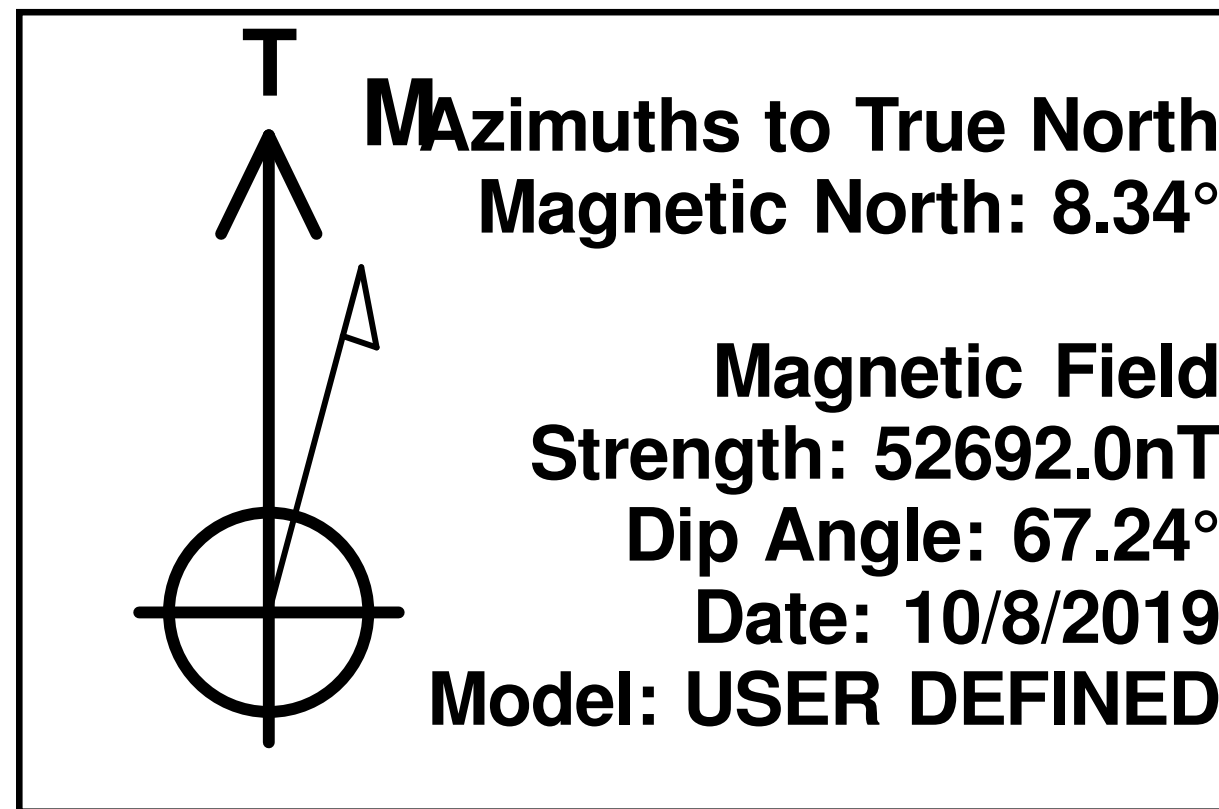
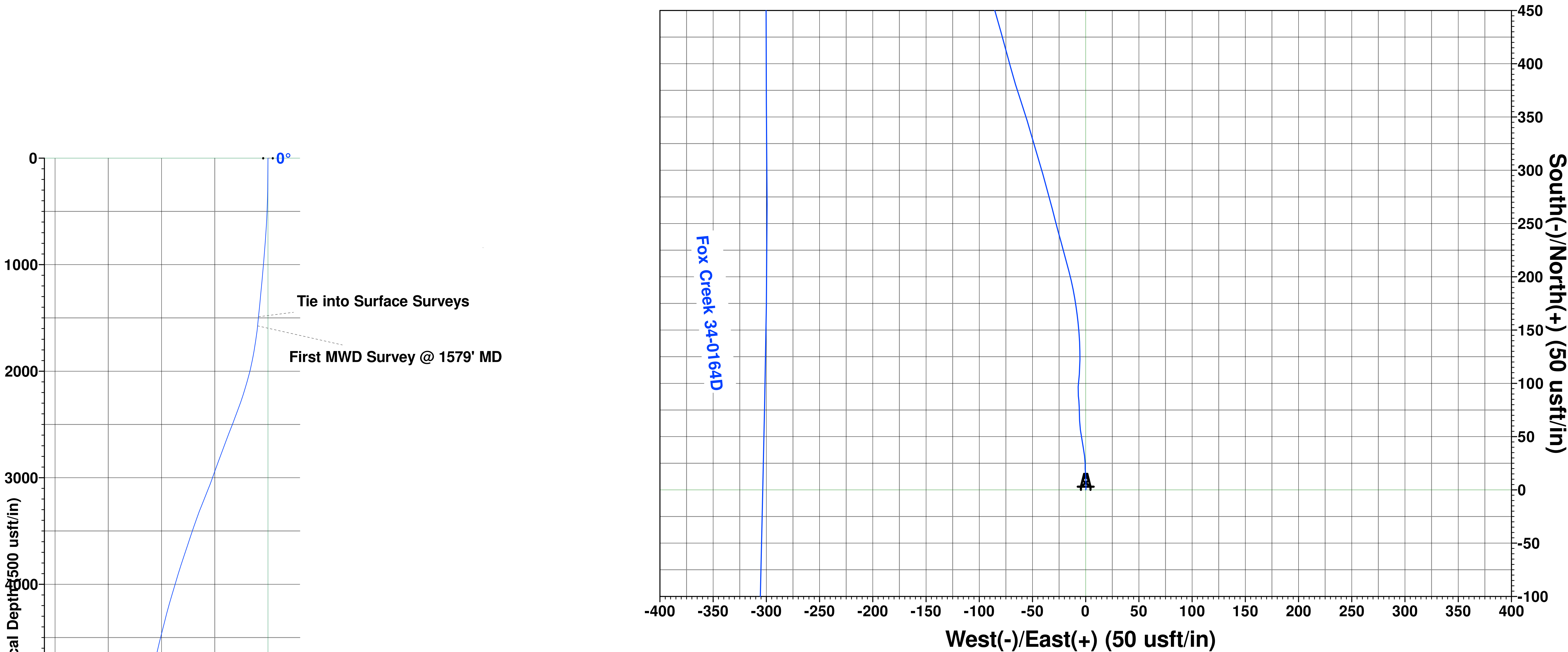
WELL DETAILS: Fox Creek 34-0164D

Ground Elevation:: 5450.80
RKB Elevation: KB @ 5470.80usft (Savanna 802)
Rig Name: Savanna 802

Northing	Easting	Latitude	Longitude
1598002.64	3296880.47	40.969937	-104.424977

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1493.00	5.56	351.80	1489.49	88.17	-6.89	-88.21	88.88	Tie into Surface Surveys
1579.00	6.09	5.65	1575.05	96.83	-7.04	-96.88	97.60	First MWD Survey @ 1579' MD
7581.78	29.99	182.44	7373.03	1372.47	-299.51	-1374.43	1548.68	30° Inclination @ 7581.78' MD
7892.55	57.09	179.46	7598.38	1162.00	-294.87	-1163.93	1758.22	Cross @ 7892.55' MD
8041.76	70.00	181.24	7663.23	1028.00	-296.67	-1029.95	1891.45	70° Inclination @ 8041.76' MD
13181.95	90.30	180.01	7713.21	-4103.00	-256.96	4101.20	7024.23	Cross @ 13181.95' MD
18187.00	90.18	179.54	7707.62	-9106.52	-218.38	9104.87	12028.76	Last MWD Survey @ 18187' MD
18254.00	90.18	179.54	7707.41	-9173.52	-217.84	9171.87	12095.76	Projection to TD @ 18254' MD 239' FSL/ 748' FWL



HighPoint Resources

Weld County, CO (NAD83)

Sec 34-T12N-R63W

Fox Creek 34-0164D

Wellbore #1

Design: Wellbore #1

Standard Survey Report

15 November, 2019

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Fox Creek 34-0164D
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 5470.80usft (Savanna 802)
Site:	Sec 34-T12N-R63W	MD Reference:	KB @ 5470.80usft (Savanna 802)
Well:	Fox Creek 34-0164D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Project	Weld County, CO (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 34-T12N-R63W			
Site Position:		Northing:	1,599,151.60 usft	Latitude:	40.973125
From:	Lat/Long	Easting:	3,295,830.61 usft	Longitude:	-104.428728
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.69 °

Well		Fox Creek 34-0164D				
Well Position	+N/-S	0.00 usft	Northing:	1,598,002.63 usft	Latitude:	40.969937
	+E/-W	0.00 usft	Easting:	3,296,880.48 usft	Longitude:	-104.424977
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,450.80 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	10/8/2019	8.34	67.24	52,692.00000000

Design	Wellbore #1				
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	179.62	

Survey Program	Date	11/15/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
209.00	1,493.00	Surface Surveys (Wellbore #1)	MWD	MWD - Standard	
1,579.00	18,254.00	Atlas MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
209.00	0.59	17.66	209.00	1.03	0.33	-1.02	0.28	0.28	0.00	
304.00	0.96	344.67	303.99	2.26	0.26	-2.26	0.60	0.39	-34.73	
494.00	2.36	5.83	493.90	7.69	0.24	-7.68	0.79	0.74	11.14	
618.00	3.52	351.16	617.74	13.99	-0.08	-13.99	1.11	0.94	-11.83	
708.00	3.78	2.00	707.56	19.68	-0.41	-19.68	0.82	0.29	12.04	
781.00	4.24	356.97	780.38	24.78	-0.46	-24.78	0.79	0.63	-6.89	
876.00	4.33	353.61	875.12	31.85	-1.05	-31.86	0.28	0.09	-3.54	
971.00	4.94	349.54	969.80	39.44	-2.19	-39.45	0.73	0.64	-4.28	
1,161.00	5.43	352.07	1,159.03	56.39	-4.92	-56.42	0.28	0.26	1.33	

Survey Report

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Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 5470.80usft (Savanna 802)
Site:	Sec 34-T12N-R63W	MD Reference:	KB @ 5470.80usft (Savanna 802)
Well:	Fox Creek 34-0164D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,255.00	5.37	357.64	1,252.61	65.19	-5.71	-65.22	0.56	-0.06	5.93
1,381.00	5.70	358.79	1,378.02	77.34	-6.09	-77.37	0.28	0.26	0.91
1,446.00	5.50	355.58	1,442.71	83.67	-6.39	-83.71	0.57	-0.31	-4.94
1,493.00	5.56	351.80	1,489.49	88.17	-6.89	-88.21	0.79	0.13	-8.04
Tie into Surface Surveys									
1,579.00	6.09	5.65	1,575.05	96.83	-7.04	-96.88	1.74	0.62	16.10
First MWD Survey @ 1579' MD									
1,674.00	8.01	4.76	1,669.33	108.44	-5.99	-108.48	2.02	2.02	-0.94
1,769.00	9.02	0.62	1,763.28	122.49	-5.36	-122.52	1.24	1.06	-4.36
1,864.00	10.73	357.40	1,856.87	138.77	-5.68	-138.80	1.89	1.80	-3.39
1,959.00	12.35	353.61	1,949.95	157.70	-7.21	-157.75	1.88	1.71	-3.99
2,054.00	15.00	350.80	2,042.25	179.94	-10.31	-180.00	2.87	2.79	-2.96
2,149.00	16.87	345.28	2,133.60	205.41	-15.78	-205.51	2.53	1.97	-5.81
2,244.00	18.21	344.55	2,224.18	233.05	-23.24	-233.20	1.43	1.41	-0.77
2,340.00	21.00	345.86	2,314.61	264.19	-31.44	-264.40	2.94	2.91	1.36
2,434.00	20.83	343.34	2,402.42	296.54	-40.34	-296.80	0.97	-0.18	-2.68
2,528.00	21.89	344.22	2,489.96	329.41	-49.90	-329.74	1.18	1.13	0.94
2,623.00	22.41	341.48	2,577.95	363.63	-60.47	-364.02	1.22	0.55	-2.88
2,718.00	21.05	344.74	2,666.20	397.26	-70.71	-397.72	1.91	-1.43	3.43
2,812.00	21.09	344.86	2,753.92	429.87	-79.57	-430.39	0.06	0.04	0.13
2,907.00	21.05	343.16	2,842.57	462.70	-88.98	-463.28	0.64	-0.04	-1.79
3,002.00	20.41	342.93	2,931.42	494.87	-98.79	-495.51	0.68	-0.67	-0.24
3,097.00	20.69	348.41	3,020.38	527.15	-107.02	-527.84	2.05	0.29	5.77
3,192.00	22.12	348.50	3,108.82	561.11	-113.96	-561.86	1.51	1.51	0.09
3,287.00	22.55	346.13	3,196.70	596.33	-121.89	-597.12	1.05	0.45	-2.49
3,381.00	22.28	344.60	3,283.60	631.00	-130.94	-631.86	0.68	-0.29	-1.63
3,476.00	20.07	345.65	3,372.18	664.16	-139.77	-665.08	2.36	-2.33	1.11
3,571.00	20.07	345.68	3,461.41	695.75	-147.84	-696.71	0.01	0.00	0.03
3,665.00	19.00	346.44	3,550.00	726.25	-155.42	-727.27	1.17	-1.14	0.81
3,761.00	18.66	347.20	3,640.86	756.42	-162.48	-757.48	0.44	-0.35	0.79
3,855.00	18.80	345.38	3,729.88	785.74	-169.64	-786.85	0.64	0.15	-1.94
3,951.00	18.88	343.44	3,820.74	815.60	-177.97	-816.76	0.66	0.08	-2.02
4,045.00	17.48	346.90	3,910.05	843.93	-185.50	-845.14	1.88	-1.49	3.68
4,140.00	16.44	352.36	4,000.92	871.15	-190.53	-872.39	2.00	-1.09	5.75
4,235.00	16.43	354.12	4,092.04	897.84	-193.69	-899.10	0.52	-0.01	1.85
4,330.00	16.07	352.51	4,183.24	924.24	-196.78	-925.52	0.61	-0.38	-1.69
4,424.00	15.12	351.94	4,273.78	949.28	-200.19	-950.58	1.02	-1.01	-0.61
4,519.00	14.40	352.61	4,365.65	973.26	-203.45	-974.59	0.78	-0.76	0.71
4,614.00	13.82	353.40	4,457.78	996.25	-206.27	-997.59	0.64	-0.61	0.83
4,709.00	14.37	351.68	4,549.92	1,019.18	-209.28	-1,020.55	0.73	0.58	-1.81
4,804.00	13.34	348.86	4,642.16	1,041.60	-213.11	-1,042.99	1.30	-1.08	-2.97
4,899.00	11.25	345.41	4,734.97	1,061.32	-217.56	-1,062.74	2.33	-2.20	-3.63
4,994.00	10.95	341.71	4,828.20	1,078.86	-222.73	-1,080.31	0.81	-0.32	-3.89

Survey Report

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Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,089.00	9.68	347.45	4,921.66	1,095.22	-227.29	-1,096.71	1.72	-1.34	6.04	
5,183.00	9.32	347.30	5,014.37	1,110.36	-230.68	-1,111.87	0.38	-0.38	-0.16	
5,278.00	9.83	351.83	5,108.05	1,125.89	-233.53	-1,127.42	0.96	0.54	4.77	
5,372.00	9.82	351.86	5,200.67	1,141.77	-235.80	-1,143.31	0.01	-0.01	0.03	
5,466.00	9.63	351.03	5,293.32	1,157.47	-238.16	-1,159.03	0.25	-0.20	-0.88	
5,561.00	10.41	350.75	5,386.87	1,173.79	-240.78	-1,175.37	0.82	0.82	-0.29	
5,655.00	10.33	350.20	5,479.34	1,190.48	-243.58	-1,192.07	0.14	-0.09	-0.59	
5,750.00	9.93	350.09	5,572.85	1,206.94	-246.44	-1,208.55	0.42	-0.42	-0.12	
5,846.00	9.12	350.33	5,667.53	1,222.60	-249.14	-1,224.22	0.84	-0.84	0.25	
5,941.00	8.84	358.16	5,761.37	1,237.32	-250.64	-1,238.95	1.32	-0.29	8.24	
6,036.00	10.47	354.75	5,855.02	1,253.21	-251.67	-1,254.85	1.82	1.72	-3.59	
6,131.00	9.75	352.24	5,948.55	1,269.78	-253.54	-1,271.43	0.89	-0.76	-2.64	
6,225.00	10.08	347.78	6,041.14	1,285.70	-256.36	-1,287.37	0.89	0.35	-4.74	
6,319.00	10.81	349.70	6,133.59	1,302.41	-259.68	-1,304.11	0.86	0.78	2.04	
6,413.00	11.44	348.23	6,225.82	1,320.21	-263.15	-1,321.93	0.73	0.67	-1.56	
6,508.00	10.35	347.37	6,319.11	1,337.76	-266.94	-1,339.51	1.16	-1.15	-0.91	
6,602.00	9.74	347.48	6,411.66	1,353.77	-270.51	-1,355.53	0.65	-0.65	0.12	
6,696.00	10.97	344.97	6,504.13	1,370.17	-274.56	-1,371.96	1.39	1.31	-2.67	
6,790.00	10.07	345.51	6,596.55	1,386.76	-278.93	-1,388.58	0.96	-0.96	0.57	
6,885.00	8.98	346.72	6,690.24	1,402.02	-282.71	-1,403.86	1.17	-1.15	1.27	
6,979.00	8.42	344.81	6,783.16	1,415.80	-286.20	-1,417.67	0.67	-0.60	-2.03	
7,073.00	7.39	340.47	6,876.26	1,428.14	-290.03	-1,430.03	1.27	-1.10	-4.62	
7,168.00	3.66	348.17	6,970.81	1,436.87	-292.69	-1,438.78	3.99	-3.93	8.11	
7,262.00	1.26	344.65	7,064.71	1,440.80	-293.58	-1,442.72	2.56	-2.55	-3.74	
7,357.00	5.59	188.21	7,159.59	1,437.23	-294.52	-1,439.15	7.12	4.56	-164.67	
7,451.00	14.40	185.21	7,252.07	1,421.02	-296.24	-1,422.96	9.39	9.37	-3.19	
7,545.00	25.05	183.75	7,340.43	1,389.44	-298.61	-1,391.39	11.34	11.33	-1.55	
7,581.78	29.99	182.44	7,373.03	1,372.47	-299.51	-1,374.43	13.54	13.44	-3.55	
30° Inclination @ 7581.78' MD										
7,639.00	37.70	181.04	7,420.52	1,340.64	-300.44	-1,342.60	13.54	13.47	-2.45	
7,733.00	40.57	177.12	7,493.44	1,281.35	-299.42	-1,283.31	4.03	3.05	-4.17	
7,828.00	50.15	177.44	7,560.11	1,213.91	-296.23	-1,215.85	10.09	10.08	0.34	
7,892.55	57.09	179.46	7,598.38	1,162.00	-294.87	-1,163.93	11.04	10.75	3.13	
Cross @ 7892.55' MD										
7,923.00	60.37	180.30	7,614.18	1,135.97	-294.82	-1,137.90	11.04	10.78	2.77	
8,017.00	68.77	181.43	7,654.51	1,051.17	-296.13	-1,053.11	9.00	8.94	1.20	
8,041.76	70.00	181.24	7,663.23	1,028.00	-296.67	-1,029.95	5.02	4.97	-0.75	
70° Inclination @ 8041.76' MD										
8,111.00	73.44	180.74	7,684.95	962.28	-297.80	-964.23	5.02	4.97	-0.73	
8,205.00	79.14	180.04	7,707.22	871.00	-298.42	-872.96	6.11	6.06	-0.74	
8,262.00	85.67	179.61	7,714.75	814.53	-298.24	-816.49	11.48	11.46	-0.75	
8,337.00	88.20	180.18	7,718.76	739.64	-298.11	-741.60	3.46	3.37	0.76	
8,431.00	90.58	180.17	7,719.76	645.65	-298.39	-647.62	2.53	2.53	-0.01	
8,526.00	90.26	180.88	7,719.06	550.66	-299.26	-552.63	0.82	-0.34	0.75	

Survey Report

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8,620.00	89.20	180.32	7,719.50	456.67	-300.25	-458.65	1.28	-1.13	-0.60	
8,714.00	89.69	179.42	7,720.41	362.67	-300.04	-364.66	1.09	0.52	-0.96	
8,809.00	90.68	179.73	7,720.11	267.68	-299.33	-269.66	1.09	1.04	0.33	
8,904.00	89.88	181.08	7,719.64	172.68	-300.00	-174.67	1.65	-0.84	1.42	
8,998.00	91.46	180.93	7,718.54	78.71	-301.65	-80.71	1.69	1.68	-0.16	
9,093.00	90.39	181.57	7,717.01	-16.25	-303.72	14.24	1.31	-1.13	0.67	
9,187.00	91.04	181.05	7,715.84	-110.22	-305.87	108.19	0.89	0.69	-0.55	
9,282.00	90.52	178.91	7,714.54	-205.21	-305.84	203.17	2.32	-0.55	-2.25	
9,377.00	90.04	178.65	7,714.08	-300.18	-303.82	298.16	0.57	-0.51	-0.27	
9,471.00	89.69	178.55	7,714.30	-394.16	-301.52	392.15	0.39	-0.37	-0.11	
9,566.00	89.15	178.11	7,715.26	-489.11	-298.75	487.12	0.73	-0.57	-0.46	
9,661.00	90.94	178.02	7,715.19	-584.05	-295.54	582.08	1.89	1.88	-0.09	
9,757.00	90.44	177.74	7,714.03	-679.98	-291.99	678.03	0.60	-0.52	-0.29	
9,852.00	89.88	177.33	7,713.77	-774.89	-287.91	772.96	0.73	-0.59	-0.43	
9,947.00	89.62	179.36	7,714.18	-869.84	-285.16	867.93	2.15	-0.27	2.14	
10,043.00	89.26	179.23	7,715.12	-965.83	-283.98	963.93	0.40	-0.38	-0.14	
10,138.00	91.04	179.83	7,714.87	-1,060.82	-283.20	1,058.92	1.98	1.87	0.63	
10,233.00	90.61	179.40	7,713.50	-1,155.81	-282.56	1,153.91	0.64	-0.45	-0.45	
10,328.00	89.79	178.15	7,713.17	-1,250.79	-280.53	1,248.90	1.57	-0.86	-1.32	
10,423.00	89.02	177.31	7,714.16	-1,345.71	-276.77	1,343.84	1.20	-0.81	-0.88	
10,519.00	90.10	177.92	7,714.89	-1,441.62	-272.78	1,439.78	1.29	1.13	0.64	
10,614.00	91.15	178.86	7,713.86	-1,536.57	-270.11	1,534.75	1.48	1.11	0.99	
10,709.00	89.34	175.84	7,713.45	-1,631.46	-265.72	1,629.66	3.71	-1.91	-3.18	
10,803.00	88.76	176.63	7,715.01	-1,725.24	-259.54	1,723.48	1.04	-0.62	0.84	
10,899.00	89.60	177.09	7,716.38	-1,821.08	-254.29	1,819.36	1.00	0.88	0.48	
10,994.00	90.67	179.35	7,716.16	-1,916.03	-251.34	1,914.32	2.63	1.13	2.38	
11,088.00	90.31	181.56	7,715.36	-2,010.02	-252.08	2,008.30	2.38	-0.38	2.35	
11,183.00	89.83	181.99	7,715.24	-2,104.97	-255.02	2,103.23	0.68	-0.51	0.45	
11,279.00	89.79	181.74	7,715.56	-2,200.92	-258.15	2,199.16	0.26	-0.04	-0.26	
11,374.00	89.23	181.36	7,716.37	-2,295.88	-260.72	2,294.10	0.71	-0.59	-0.40	
11,469.00	90.45	182.48	7,716.64	-2,390.82	-263.90	2,389.02	1.74	1.28	1.18	
11,565.00	90.23	182.52	7,716.07	-2,486.73	-268.09	2,484.90	0.23	-0.23	0.04	
11,660.00	89.80	182.72	7,716.04	-2,581.63	-272.43	2,579.77	0.50	-0.45	0.21	
11,754.00	91.72	182.07	7,714.80	-2,675.54	-276.36	2,673.64	2.16	2.04	-0.69	
11,849.00	91.37	181.58	7,712.23	-2,770.45	-279.38	2,768.54	0.63	-0.37	-0.52	
11,944.00	90.03	180.56	7,711.07	-2,865.43	-281.16	2,863.50	1.77	-1.41	-1.07	
12,039.00	88.41	177.45	7,712.37	-2,960.39	-279.51	2,958.47	3.69	-1.71	-3.27	
12,135.00	89.22	179.94	7,714.35	-3,056.33	-277.32	3,054.43	2.73	0.84	2.59	
12,230.00	88.66	179.84	7,716.11	-3,151.32	-277.14	3,149.41	0.60	-0.59	-0.11	
12,326.00	90.55	179.02	7,716.77	-3,247.30	-276.18	3,245.40	2.15	1.97	-0.85	
12,421.00	89.59	178.15	7,716.66	-3,342.27	-273.84	3,340.38	1.36	-1.01	-0.92	
12,516.00	90.59	178.66	7,716.51	-3,437.24	-271.19	3,435.36	1.18	1.05	0.54	
12,611.00	90.95	178.74	7,715.23	-3,532.20	-269.04	3,530.34	0.39	0.38	0.08	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Fox Creek 34-0164D
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 5470.80usft (Savanna 802)
Site:	Sec 34-T12N-R63W	MD Reference:	KB @ 5470.80usft (Savanna 802)
Well:	Fox Creek 34-0164D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,707.00	90.27	179.40	7,714.21	-3,628.18	-267.48	3,626.33	0.99	-0.71	0.69
12,802.00	89.94	178.53	7,714.03	-3,723.17	-265.77	3,721.32	0.98	-0.35	-0.92
12,897.00	89.70	179.16	7,714.33	-3,818.15	-263.85	3,816.31	0.71	-0.25	0.66
12,993.00	90.54	178.40	7,714.13	-3,914.12	-261.81	3,912.30	1.18	0.88	-0.79
13,087.00	90.14	177.85	7,713.57	-4,008.07	-258.73	4,006.27	0.72	-0.43	-0.59
13,181.95	90.30	180.01	7,713.21	-4,103.00	-256.96	4,101.20	2.28	0.17	2.27
Cross @ 13181.95' MD									
13,183.00	90.30	180.03	7,713.20	-4,104.05	-256.96	4,102.25	2.28	0.17	2.27
13,278.00	90.39	180.80	7,712.63	-4,199.04	-257.64	4,197.24	0.82	0.09	0.81
13,373.00	89.71	180.41	7,712.55	-4,294.04	-258.65	4,292.23	0.83	-0.72	-0.41
13,468.00	89.63	179.63	7,713.10	-4,389.03	-258.68	4,387.22	0.83	-0.08	-0.82
13,563.00	88.72	178.54	7,714.46	-4,484.01	-257.16	4,482.21	1.49	-0.96	-1.15
13,658.00	89.78	178.69	7,715.71	-4,578.97	-254.87	4,577.18	1.13	1.12	0.16
13,753.00	88.90	178.02	7,716.80	-4,673.93	-252.14	4,672.15	1.16	-0.93	-0.71
13,848.00	90.20	179.70	7,717.55	-4,768.90	-250.25	4,767.13	2.24	1.37	1.77
13,943.00	91.48	180.56	7,716.16	-4,863.88	-250.47	4,862.12	1.62	1.35	0.91
14,039.00	91.39	179.59	7,713.75	-4,959.85	-250.59	4,958.08	1.01	-0.09	-1.01
14,133.00	90.51	180.00	7,712.19	-5,053.84	-250.26	5,052.07	1.03	-0.94	0.44
14,229.00	89.74	178.75	7,711.98	-5,149.83	-249.21	5,148.06	1.53	-0.80	-1.30
14,324.00	90.24	179.98	7,712.00	-5,244.82	-248.16	5,243.06	1.40	0.53	1.29
14,420.00	90.01	179.91	7,711.79	-5,340.82	-248.06	5,339.06	0.25	-0.24	-0.07
14,516.00	89.11	178.75	7,712.53	-5,436.81	-246.94	5,435.05	1.53	-0.94	-1.21
14,611.00	92.17	180.25	7,711.47	-5,531.79	-246.11	5,530.03	3.59	3.22	1.58
14,707.00	91.72	180.15	7,708.21	-5,627.73	-246.45	5,625.97	0.48	-0.47	-0.10
14,802.00	91.27	180.08	7,705.73	-5,722.70	-246.64	5,720.94	0.48	-0.47	-0.07
14,897.00	89.92	178.90	7,704.74	-5,817.68	-245.79	5,815.93	1.89	-1.42	-1.24
14,993.00	89.33	179.54	7,705.37	-5,913.67	-244.48	5,911.92	0.91	-0.61	0.67
15,088.00	89.03	178.93	7,706.73	-6,008.65	-243.22	6,006.91	0.72	-0.32	-0.64
15,183.00	90.03	179.21	7,707.51	-6,103.64	-241.67	6,101.90	1.09	1.05	0.29
15,278.00	88.87	178.37	7,708.42	-6,198.61	-239.67	6,196.88	1.51	-1.22	-0.88
15,373.00	90.06	179.76	7,709.31	-6,293.59	-238.12	6,291.87	1.93	1.25	1.46
15,469.00	91.49	180.12	7,708.01	-6,389.58	-238.02	6,387.86	1.54	1.49	0.38
15,563.00	90.61	179.44	7,706.29	-6,483.56	-237.66	6,481.84	1.18	-0.94	-0.72
15,658.00	89.32	179.24	7,706.35	-6,578.55	-236.56	6,576.84	1.37	-1.36	-0.21
15,753.00	90.61	179.82	7,706.40	-6,673.54	-235.78	6,671.83	1.49	1.36	0.61
15,848.00	90.12	179.76	7,705.80	-6,768.54	-235.44	6,766.83	0.52	-0.52	-0.06
15,944.00	89.42	178.97	7,706.19	-6,864.53	-234.37	6,862.83	1.10	-0.73	-0.82
16,039.00	90.24	179.83	7,706.47	-6,959.53	-233.38	6,957.83	1.25	0.86	0.91
16,134.00	88.67	178.08	7,707.37	-7,054.50	-231.64	7,052.81	2.47	-1.65	-1.84
16,229.00	90.29	178.92	7,708.23	-7,149.46	-229.16	7,147.78	1.92	1.71	0.88
16,324.00	90.64	180.97	7,707.46	-7,244.45	-229.07	7,242.77	2.19	0.37	2.16
16,420.00	89.89	180.87	7,707.02	-7,340.44	-230.61	7,338.75	0.79	-0.78	-0.10
16,515.00	90.63	180.79	7,706.59	-7,435.43	-231.98	7,433.72	0.78	0.78	-0.08
16,609.00	89.28	179.49	7,706.66	-7,529.42	-232.21	7,527.71	1.99	-1.44	-1.38

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Fox Creek 34-0164D
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 5470.80usft (Savanna 802)
Site:	Sec 34-T12N-R63W	MD Reference:	KB @ 5470.80usft (Savanna 802)
Well:	Fox Creek 34-0164D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,705.00	90.65	180.02	7,706.72	-7,625.42	-231.80	7,623.71	1.53	1.43	0.55	
16,800.00	90.04	179.38	7,706.15	-7,720.41	-231.31	7,718.71	0.93	-0.64	-0.67	
16,894.00	89.63	179.00	7,706.42	-7,814.40	-229.98	7,812.71	0.59	-0.44	-0.40	
16,989.00	89.08	178.35	7,707.49	-7,909.37	-227.78	7,907.69	0.90	-0.58	-0.68	
17,085.00	88.92	179.86	7,709.16	-8,005.34	-226.28	8,003.66	1.58	-0.17	1.57	
17,179.00	90.57	181.17	7,709.58	-8,099.33	-227.13	8,097.65	2.24	1.76	1.39	
17,274.00	92.09	182.46	7,707.38	-8,194.25	-230.13	8,192.55	2.10	1.60	1.36	
17,370.00	91.22	182.79	7,704.60	-8,290.11	-234.53	8,288.37	0.97	-0.91	0.34	
17,465.00	89.41	181.11	7,704.08	-8,385.05	-237.76	8,383.29	2.60	-1.91	-1.77	
17,560.00	88.53	179.95	7,705.79	-8,480.03	-238.64	8,478.26	1.53	-0.93	-1.22	
17,656.00	89.26	178.19	7,707.64	-8,575.99	-237.08	8,574.23	1.98	0.76	-1.83	
17,751.00	90.14	178.94	7,708.14	-8,670.96	-234.70	8,669.21	1.22	0.93	0.79	
17,847.00	91.59	178.35	7,706.69	-8,766.92	-232.43	8,765.18	1.63	1.51	-0.61	
17,942.00	90.91	178.69	7,704.62	-8,861.86	-229.98	8,860.14	0.80	-0.72	0.36	
18,007.00	88.44	176.19	7,704.98	-8,926.79	-227.08	8,925.08	5.41	-3.80	-3.85	
18,037.00	88.18	176.47	7,705.87	-8,956.71	-225.16	8,955.02	1.27	-0.87	0.93	
18,132.00	89.75	177.22	7,707.59	-9,051.55	-219.93	9,049.89	1.83	1.65	0.79	
18,187.00	90.18	179.54	7,707.62	-9,106.52	-218.38	9,104.87	4.29	0.78	4.22	
Last MWD Survey @ 18187' MD										
18,254.00	90.18	179.54	7,707.41	-9,173.52	-217.84	9,171.87	0.00	0.00	0.00	
Projection to TD @ 18254' MD 239' FSL/ 748' FWL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
30° Inclination @ 7581.7	0.00	0.00	7,373.04	1,372.47	-299.55	1,599,371.37	3,296,564.31	40.973704	-104.426062	
- hit/miss target										
- Shape										
- actual wellpath misses target center by 0.04usft at 7581.78usft MD (7373.04 TVD, 1372.47 N, -299.51 E)										
- Point										
Cross @ 7892.55' MD	0.00	0.00	7,598.38	1,162.00	-294.87	1,599,160.97	3,296,571.54	40.973126	-104.426045	
- actual wellpath hits target center										
- Point										
70° Inclination @ 8041.7	0.00	0.00	7,663.23	1,028.00	-296.67	1,599,026.96	3,296,571.37	40.972758	-104.426052	
- actual wellpath hits target center										
- Point										
Cross @ 13181.95' MD	0.00	0.00	7,713.21	-4,103.00	-256.96	1,593,896.82	3,296,673.28	40.958676	-104.425908	
- actual wellpath hits target center										
- Point										

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Fox Creek 34-0164D
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 5470.80usft (Savanna 802)
Site:	Sec 34-T12N-R63W	MD Reference:	KB @ 5470.80usft (Savanna 802)
Well:	Fox Creek 34-0164D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,493.00	1,489.49	88.17	-6.89	Tie into Surface Surveys
1,579.00	1,575.05	96.83	-7.04	First MWD Survey @ 1579' MD
7,581.78	7,373.03	1,372.47	-299.51	30° Inclination @ 7581.78' MD
7,892.55	7,598.38	1,162.00	-294.87	Cross @ 7892.55' MD
8,041.76	7,663.23	1,028.00	-296.67	70° Inclination @ 8041.76' MD
13,181.95	7,713.21	-4,103.00	-256.96	Cross @ 13181.95' MD
18,187.00	7,707.62	-9,106.52	-218.38	Last MWD Survey @ 18187' MD
18,254.00	7,707.41	-9,173.52	-217.84	Projection to TD @ 18254' MD 239' FSL/ 748' FWL

Checked By: _____	Approved By: _____	Date: _____
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