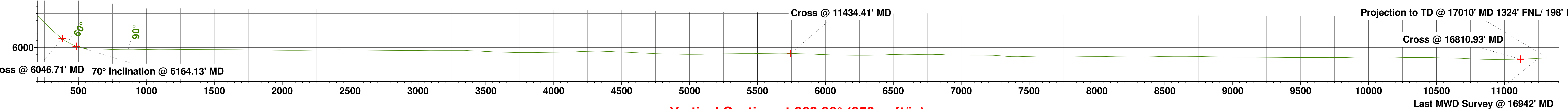


Vertical Section at 269.38° (250 usft/in)



Vertical Section at 269.38° (250 usft/in)

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

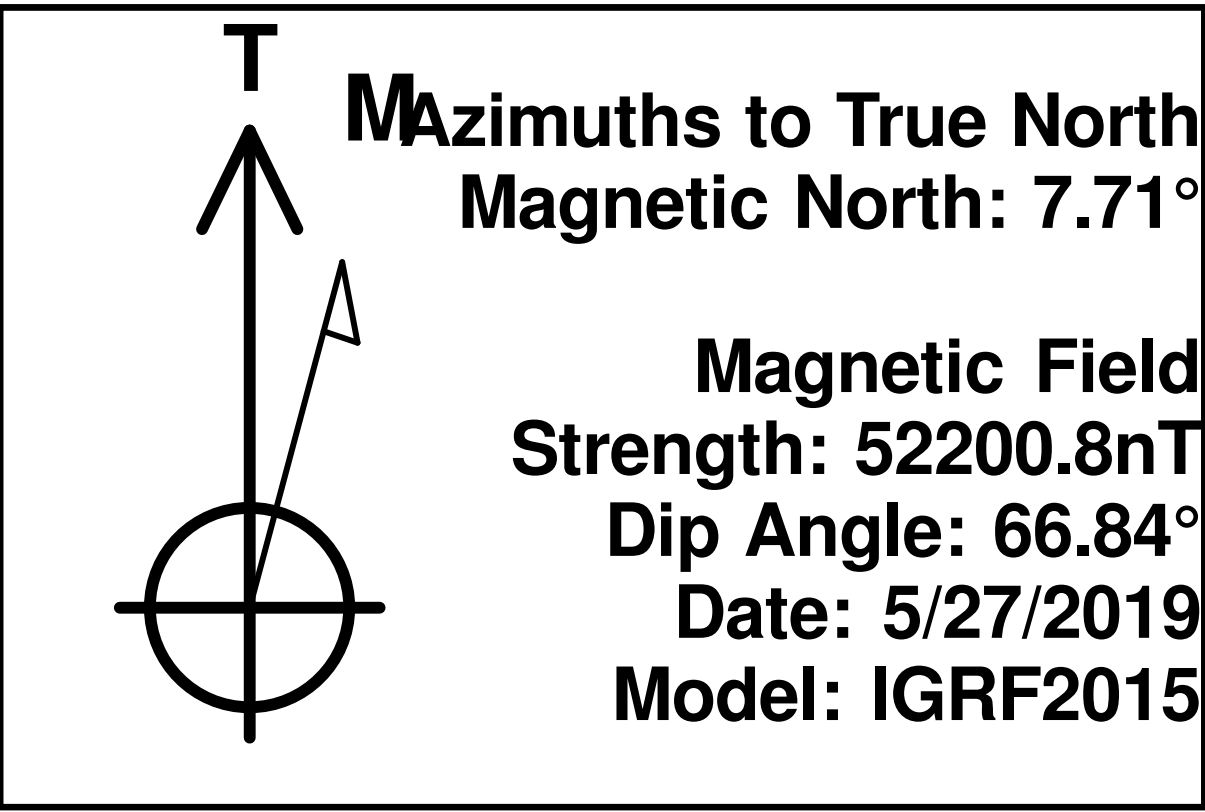
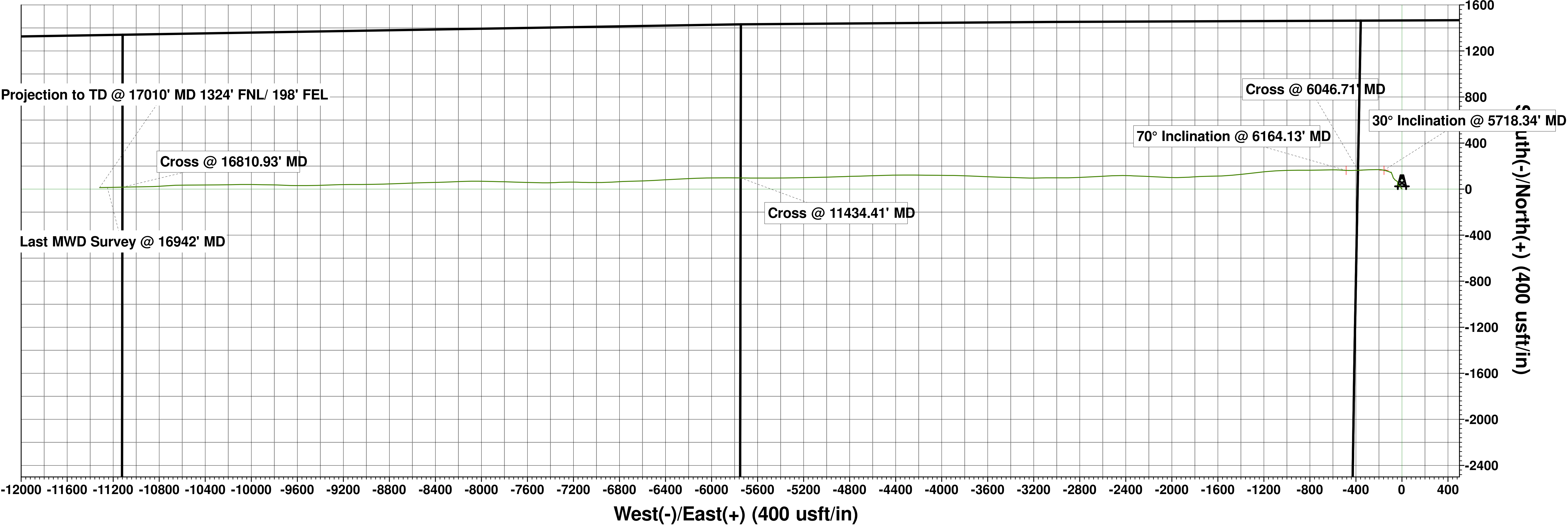
HighPoint Resources
Project: Weld County, CO (NAD83)
Site: Sec 04-T04N-R61W RSU
Well: RSU Anschutz Fed 4-61-05-0909CS
Wellbore: Wellbore #1
Design: Wellbore #1 (RSU Anschutz Fed 4-61-05-0909CS/Wellbore #1)
Cade 23

WELL DETAILS: RSU Anschutz Fed 4-61-05-0909CS

Ground Elevation:: 4501.50
RKB Elevation: KB @ 4518.00usft (Cade 23)
Rig Name: Cade 23

Northing	Easting	Latitude	Longitude
1371434.41	3355586.36	40.345967	-104.224229

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
774.00	2.56	336.50	773.69	14.52	-9.98	9.82	19.14	Tie into Surface Surveys
890.00	3.19	330.85	889.54	19.71	-12.58	12.37	24.96	First MWD Survey @ 890' MD
5718.34	29.98	282.93	5699.94	163.66	-155.76	153.98	265.98	30° Inclination @ 5718.34' MD
6046.71	53.92	267.30	5934.95	163.29	-382.00	380.21	493.54	Cross @ 6046.71' MD
6164.13	69.99	272.25	5990.58	162.86	-484.94	483.15	596.38	70° Inclination @ 6164.13' MD
11434.41	88.46	271.10	6043.72	97.25	-5747.00	5745.61	5861.93	Cross @ 11434.41' MD
16810.93	91.63	269.00	6085.85	17.07	-11119.50	11118.66	11236.98	Cross @ 16810.93' MD
16942.00	93.28	269.03	6080.17	14.62	-11250.42	11249.60	11367.92	Last MWD Survey @ 16942' MD
17010.00	93.28	269.03	6076.28	13.47	-11318.29	11317.49	11435.81	Projection to TD @ 17010' MD 1324' FNL/ 198' FEL



HighPoint Resources

Weld County, CO (NAD83)

Sec 04-T04N-R61W RSU

RSU Anschutz Fed 4-61-05-0909CS

Wellbore #1

Design: Wellbore #1

Standard Survey Report

13 November, 2019

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-05-0909CS
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W RSU	MD Reference:	KB @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-05-0909CS	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 04-T04N-R61W RSU			
Site Position:		Northing:	1,372,892.85 usft	Latitude:	40.349985
From:	Lat/Long	Easting:	3,355,207.48 usft	Longitude:	-104.225513
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.82 °

Well	RSU Anschutz Fed 4-61-05-0909CS					
Well Position	+N/-S	0.00 usft	Northing:	1,371,434.41 usft	Latitude:	40.345967
	+E/-W	0.00 usft	Easting:	3,355,586.36 usft	Longitude:	-104.224229
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,501.50 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/27/2019	7.71	66.84	52,200.78836379

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	269.38	

Survey Program	Date	11/13/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
149.00	774.00	Surface Surveys (Wellbore #1)	MWD	MWD - Standard	
890.00	17,010.00	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	
149.00	0.84	359.46	148.99	1.09	-0.01	0.00	0.56	0.56	0.00	
242.00	0.75	21.19	241.99	2.34	0.20	-0.23	0.34	-0.10	23.37	
334.00	0.88	297.23	333.98	3.23	-0.21	0.17	1.19	0.14	-91.26	
426.00	1.28	297.19	425.96	4.02	-1.75	1.71	0.43	0.43	-0.04	
517.00	2.30	306.75	516.92	5.58	-4.12	4.06	1.16	1.12	10.51	
610.00	2.43	324.16	609.84	8.29	-6.77	6.68	0.78	0.14	18.72	
701.00	2.43	335.70	700.76	11.61	-8.69	8.56	0.54	0.00	12.68	
774.00	2.56	336.50	773.69	14.52	-9.98	9.82	0.18	0.18	1.10	
Tie into Surface Surveys										

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-05-0909CS
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W RSU	MD Reference:	KB @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-05-0909CS	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)
890.00	3.19	330.85	889.54	19.71	-12.58	12.37	0.59	0.54	-4.87
First MWD Survey @ 890' MD									
981.00	4.51	304.48	980.34	23.95	-16.76	16.50	2.39	1.45	-28.98
1,073.00	4.82	301.71	1,072.04	28.03	-23.03	22.73	0.42	0.34	-3.01
1,165.00	4.68	301.22	1,163.72	32.01	-29.53	29.18	0.16	-0.15	-0.53
1,257.00	4.02	315.27	1,255.46	36.24	-35.01	34.62	1.36	-0.72	15.27
1,350.00	2.25	315.89	1,348.32	39.87	-38.58	38.14	1.90	-1.90	0.67
1,442.00	1.42	24.18	1,440.28	42.21	-39.37	38.91	2.36	-0.90	74.23
1,534.00	1.42	25.21	1,532.25	44.28	-38.41	37.93	0.03	0.00	1.12
1,629.00	3.32	17.56	1,627.16	47.97	-37.08	36.56	2.02	2.00	-8.05
1,725.00	3.63	1.73	1,722.99	53.65	-36.15	35.57	1.05	0.32	-16.49
1,820.00	4.49	336.65	1,817.76	60.07	-37.54	36.88	2.05	0.91	-26.40
1,916.00	4.69	321.25	1,913.45	66.59	-41.48	40.76	1.30	0.21	-16.04
2,011.00	4.81	300.16	2,008.13	71.62	-47.36	46.58	1.83	0.13	-22.20
2,106.00	3.40	302.19	2,102.89	75.12	-53.19	52.37	1.49	-1.48	2.14
2,202.00	2.84	298.34	2,198.75	77.76	-57.69	56.84	0.62	-0.58	-4.01
2,297.00	3.47	322.63	2,293.60	81.17	-61.50	60.62	1.54	0.66	25.57
2,393.00	3.39	323.35	2,389.43	85.75	-64.96	64.03	0.09	-0.08	0.75
2,488.00	3.07	317.53	2,484.28	89.88	-68.36	67.38	0.48	-0.34	-6.13
2,583.00	2.73	312.18	2,579.16	93.28	-71.75	70.74	0.46	-0.36	-5.63
2,679.00	2.94	334.71	2,675.05	97.04	-74.50	73.44	1.17	0.22	23.47
2,774.00	3.11	341.09	2,769.91	101.68	-76.37	75.27	0.40	0.18	6.72
2,870.00	3.29	341.54	2,865.76	106.76	-78.09	76.93	0.19	0.19	0.47
2,966.00	3.25	341.20	2,961.61	111.95	-79.84	78.62	0.05	-0.04	-0.35
3,061.00	3.06	341.31	3,056.46	116.90	-81.52	80.25	0.20	-0.20	0.12
3,157.00	2.87	336.91	3,152.34	121.53	-83.28	81.96	0.31	-0.20	-4.58
3,252.00	3.08	339.40	3,247.21	126.11	-85.11	83.74	0.26	0.22	2.62
3,347.00	3.48	338.15	3,342.05	131.18	-87.08	85.66	0.43	0.42	-1.32
3,443.00	3.56	340.99	3,437.87	136.70	-89.14	87.65	0.20	0.08	2.96
3,539.00	2.86	325.42	3,533.72	141.49	-91.47	89.93	1.16	-0.73	-16.22
3,635.00	1.53	312.99	3,629.65	144.33	-93.77	92.20	1.46	-1.39	-12.95
3,731.00	0.52	312.20	3,725.63	145.50	-95.03	93.45	1.05	-1.05	-0.82
3,826.00	0.52	4.19	3,820.63	146.22	-95.31	93.73	0.48	0.00	54.73
3,922.00	0.38	351.74	3,916.63	146.97	-95.33	93.73	0.18	-0.15	-12.97
4,018.00	0.08	21.81	4,012.62	147.35	-95.35	93.75	0.33	-0.31	31.32
4,114.00	0.30	92.21	4,108.62	147.40	-95.07	93.47	0.30	0.23	73.33
4,210.00	0.31	119.86	4,204.62	147.26	-94.60	93.00	0.15	0.01	28.80
4,305.00	0.26	149.29	4,299.62	146.95	-94.26	92.67	0.16	-0.05	30.98
4,400.00	0.23	156.12	4,394.62	146.59	-94.08	92.48	0.04	-0.03	7.19
4,494.00	0.36	145.62	4,488.62	146.17	-93.83	92.25	0.15	0.14	-11.17
4,589.00	0.43	168.20	4,583.62	145.58	-93.59	92.01	0.18	0.07	23.77
4,685.00	0.57	171.20	4,679.61	144.75	-93.45	91.87	0.15	0.15	3.13
4,781.00	0.64	139.90	4,775.61	143.87	-93.03	91.46	0.35	0.07	-32.60

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-05-0909CS
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W RSU	MD Reference:	KB @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-05-0909CS	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)
4,877.00	0.65	144.68	4,871.60	143.02	-92.37	90.81	0.06	0.01	4.98
4,973.00	0.63	141.60	4,967.60	142.16	-91.72	90.18	0.04	-0.02	-3.21
5,069.00	0.11	31.87	5,063.60	141.82	-91.35	89.81	0.70	-0.54	-114.30
5,164.00	0.37	33.26	5,158.59	142.16	-91.13	89.59	0.27	0.27	1.46
5,259.00	0.30	308.13	5,253.59	142.57	-91.16	89.61	0.48	-0.07	-89.61
5,355.00	0.16	236.52	5,349.59	142.65	-91.47	89.92	0.30	-0.15	-74.59
5,449.00	0.29	237.67	5,443.59	142.45	-91.78	90.23	0.14	0.14	1.22
5,545.00	6.73	296.72	5,539.37	144.85	-97.01	95.44	6.86	6.71	61.51
5,639.00	24.73	289.02	5,629.48	153.81	-120.72	119.05	19.24	19.15	-8.19
5,718.34	29.98	282.93	5,699.94	163.66	-155.76	153.98	7.49	6.61	-7.68
30° Inclination @ 5718.34' MD									
5,734.00	31.04	281.95	5,713.43	165.37	-163.52	161.72	7.49	6.79	-6.23
5,829.00	45.75	268.14	5,787.82	169.37	-221.92	220.07	17.84	15.48	-14.54
5,924.00	45.42	268.99	5,854.30	167.67	-289.75	287.92	0.73	-0.35	0.89
6,019.00	50.42	266.06	5,917.96	164.55	-360.16	358.36	5.74	5.26	-3.08
6,046.71	53.92	267.30	5,934.95	163.29	-382.00	380.21	13.12	12.64	4.49
Cross @ 6046.71' MD									
6,114.00	62.47	269.92	5,970.38	161.97	-439.11	437.34	13.12	12.70	3.89
6,164.13	69.99	272.25	5,990.58	162.86	-484.94	483.15	15.59	15.00	4.66
70° Inclination @ 6164.13' MD									
6,209.00	76.74	274.16	6,003.42	165.28	-527.84	526.02	15.59	15.05	4.25
6,240.00	83.83	272.34	6,008.65	167.01	-558.33	556.49	23.59	22.87	-5.87
6,274.00	89.25	269.62	6,010.70	167.59	-592.24	590.40	17.83	15.94	-8.00
6,298.00	89.50	268.80	6,010.96	167.25	-616.24	614.39	3.57	1.04	-3.42
6,394.00	87.73	269.04	6,013.28	165.45	-712.19	710.36	1.86	-1.84	0.25
6,490.00	88.54	269.52	6,016.40	164.24	-808.13	806.31	0.98	0.84	0.50
6,585.00	90.89	269.92	6,016.88	163.78	-903.12	901.30	2.51	2.47	0.42
6,681.00	91.75	268.69	6,014.67	162.61	-999.09	997.27	1.56	0.90	-1.28
6,777.00	89.82	266.79	6,013.35	158.83	-1,094.99	1,093.21	2.82	-2.01	-1.98
6,872.00	89.52	264.35	6,013.90	151.49	-1,189.70	1,187.99	2.59	-0.32	-2.57
6,967.00	89.68	262.81	6,014.56	140.87	-1,284.10	1,282.50	1.63	0.17	-1.62
7,063.00	89.52	264.64	6,015.23	130.37	-1,379.52	1,378.03	1.91	-0.17	1.91
7,158.00	89.51	264.26	6,016.04	121.19	-1,474.07	1,472.67	0.40	-0.01	-0.40
7,253.00	89.99	267.38	6,016.45	114.26	-1,568.81	1,567.48	3.32	0.51	3.28
7,349.00	89.52	270.01	6,016.86	112.08	-1,664.77	1,663.46	2.78	-0.49	2.74
7,444.00	89.52	266.93	6,017.66	109.54	-1,759.72	1,758.43	3.24	0.00	-3.24
7,539.00	89.09	265.73	6,018.81	103.46	-1,854.52	1,853.29	1.34	-0.45	-1.26
7,634.00	89.43	269.89	6,020.04	99.83	-1,949.42	1,948.23	4.39	0.36	4.38
7,729.00	89.48	273.10	6,020.94	102.31	-2,044.37	2,043.14	3.38	0.05	3.38
7,824.00	90.34	272.75	6,021.09	107.16	-2,139.25	2,137.96	0.98	0.91	-0.37
7,920.00	91.24	272.19	6,019.77	111.29	-2,235.15	2,233.81	1.10	0.94	-0.58
8,015.00	91.13	272.52	6,017.80	115.20	-2,330.05	2,328.66	0.37	-0.12	0.35
8,110.00	89.46	271.00	6,017.31	118.11	-2,424.99	2,423.57	2.38	-1.76	-1.60
8,206.00	89.17	266.77	6,018.46	116.25	-2,520.95	2,519.54	4.42	-0.30	-4.41

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-05-0909CS
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W RSU	MD Reference:	KB @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-05-0909CS	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)	
8,301.00	89.55	266.25	6,019.52	110.46	-2,615.76	2,614.42	0.68	0.40	-0.55	
8,396.00	89.22	268.30	6,020.54	105.95	-2,710.65	2,709.34	2.19	-0.35	2.16	
8,491.00	89.26	266.32	6,021.80	101.49	-2,805.53	2,804.27	2.08	0.04	-2.08	
8,586.00	89.52	269.28	6,022.81	97.84	-2,900.44	2,899.21	3.13	0.27	3.12	
8,681.00	90.66	271.31	6,022.66	98.33	-2,995.43	2,994.19	2.45	1.20	2.14	
8,777.00	91.05	268.30	6,021.23	98.01	-3,091.41	3,090.17	3.16	0.41	-3.14	
8,873.00	88.87	269.20	6,021.30	95.91	-3,187.38	3,186.16	2.46	-2.27	0.94	
8,968.00	90.95	272.50	6,021.45	97.32	-3,282.35	3,281.11	4.11	2.19	3.47	
9,064.00	86.85	271.20	6,023.29	100.42	-3,378.26	3,376.98	4.48	-4.27	-1.35	
9,159.00	87.38	271.63	6,028.07	102.76	-3,473.11	3,471.80	0.72	0.56	0.45	
9,253.00	87.69	272.45	6,032.11	106.11	-3,566.97	3,565.61	0.93	0.33	0.87	
9,348.00	88.15	272.44	6,035.56	110.16	-3,661.82	3,660.41	0.48	0.48	-0.01	
9,443.00	89.70	272.31	6,037.34	114.09	-3,756.72	3,755.26	1.64	1.63	-0.14	
9,538.00	90.61	271.63	6,037.09	117.36	-3,851.66	3,850.16	1.20	0.96	-0.72	
9,633.00	90.98	270.34	6,035.77	118.99	-3,946.63	3,945.11	1.41	0.39	-1.36	
9,727.00	90.68	270.45	6,034.41	119.64	-4,040.62	4,039.09	0.34	-0.32	0.12	
9,823.00	91.56	270.64	6,032.53	120.55	-4,136.60	4,135.05	0.94	0.92	0.20	
9,918.00	92.66	270.63	6,029.03	121.60	-4,231.52	4,229.96	1.16	1.16	-0.01	
10,013.00	89.19	269.85	6,027.50	122.00	-4,326.50	4,324.92	3.74	-3.65	-0.82	
10,109.00	87.51	269.24	6,030.26	121.24	-4,422.45	4,420.88	1.86	-1.75	-0.64	
10,204.00	87.60	268.22	6,034.32	119.14	-4,517.34	4,515.78	1.08	0.09	-1.07	
10,299.00	87.15	268.15	6,038.67	116.13	-4,612.19	4,610.66	0.48	-0.47	-0.07	
10,394.00	87.27	268.03	6,043.29	112.97	-4,707.03	4,705.53	0.18	0.13	-0.13	
10,489.00	88.07	268.90	6,047.15	110.43	-4,801.91	4,800.43	1.24	0.84	0.92	
10,535.00	88.73	267.77	6,048.44	109.09	-4,847.87	4,846.41	2.84	1.43	-2.46	
10,584.00	88.81	268.01	6,049.49	107.29	-4,896.83	4,895.38	0.52	0.16	0.49	
10,680.00	89.83	268.44	6,050.63	104.31	-4,992.77	4,991.35	1.15	1.06	0.45	
10,776.00	90.75	268.59	6,050.14	101.83	-5,088.74	5,087.34	0.97	0.96	0.16	
10,872.00	91.34	268.77	6,048.39	99.61	-5,184.70	5,183.32	0.64	0.61	0.19	
10,968.00	90.95	269.22	6,046.47	97.93	-5,280.66	5,279.29	0.62	-0.41	0.47	
11,063.00	90.29	269.29	6,045.45	96.70	-5,375.65	5,374.29	0.70	-0.69	0.07	
11,159.00	90.07	269.46	6,045.15	95.65	-5,471.64	5,470.29	0.29	-0.23	0.18	
11,254.00	91.83	270.65	6,043.57	95.74	-5,566.62	5,565.26	2.24	1.85	1.25	
11,349.00	89.67	270.10	6,042.33	96.36	-5,661.61	5,660.23	2.35	-2.27	-0.58	
11,434.41	88.46	271.10	6,043.72	97.25	-5,747.00	5,745.61	1.84	-1.42	1.17	
Cross @ 11434.41' MD										
11,445.00	88.31	271.22	6,044.02	97.47	-5,757.58	5,756.19	1.84	-1.42	1.17	
11,541.00	87.79	269.55	6,047.29	98.11	-5,853.52	5,852.12	1.82	-0.54	-1.74	
11,637.00	87.48	269.79	6,051.25	97.56	-5,949.44	5,948.03	0.41	-0.32	0.25	
11,729.00	88.94	269.35	6,054.12	96.87	-6,041.39	6,039.99	1.66	1.59	-0.48	
11,821.00	88.96	267.31	6,055.81	94.19	-6,133.33	6,131.95	2.22	0.02	-2.22	
11,913.00	88.78	267.04	6,057.62	89.65	-6,225.20	6,223.86	0.35	-0.20	-0.29	
12,005.00	91.42	267.47	6,057.46	85.25	-6,317.08	6,315.79	2.91	2.87	0.47	
12,097.00	91.64	266.67	6,055.00	80.55	-6,408.93	6,407.68	0.90	0.24	-0.87	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-05-0909CS
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W RSU	MD Reference:	KB @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-05-0909CS	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)
12,186.00	92.60	266.79	6,051.71	75.47	-6,497.72	6,496.53	1.09	1.08	0.13
12,278.00	89.19	268.30	6,050.28	71.54	-6,589.61	6,588.45	4.05	-3.71	1.64
12,370.00	90.07	268.01	6,050.87	68.57	-6,681.56	6,680.43	1.01	0.96	-0.32
12,461.00	90.26	268.65	6,050.61	65.92	-6,772.52	6,771.41	0.73	0.21	0.70
12,553.00	86.83	265.30	6,052.94	61.07	-6,864.34	6,863.27	5.21	-3.73	-3.64
12,645.00	90.11	270.15	6,055.40	57.43	-6,956.19	6,955.16	6.36	3.57	5.27
12,738.00	89.05	269.70	6,056.08	57.30	-7,049.19	7,048.15	1.24	-1.14	-0.48
12,830.00	90.32	272.43	6,056.59	59.01	-7,141.16	7,140.10	3.27	1.38	2.97
12,922.00	87.98	270.21	6,057.95	61.13	-7,233.11	7,232.03	3.51	-2.54	-2.41
13,014.00	84.02	266.40	6,064.37	58.43	-7,324.81	7,323.75	5.97	-4.30	-4.14
13,046.00	87.51	267.19	6,066.74	56.64	-7,356.67	7,355.63	11.18	10.91	2.47
13,110.00	91.09	269.75	6,067.52	54.94	-7,420.63	7,419.60	6.88	5.59	4.00
13,206.00	91.70	271.07	6,065.18	55.62	-7,516.59	7,515.55	1.51	0.64	1.38
13,301.00	91.07	271.63	6,062.88	57.86	-7,611.54	7,610.47	0.89	-0.66	0.59
13,396.00	89.68	271.79	6,062.26	60.69	-7,706.49	7,705.38	1.47	-1.46	0.17
13,491.00	88.72	271.93	6,063.59	63.78	-7,801.43	7,800.29	1.02	-1.01	0.15
13,587.00	89.05	270.93	6,065.46	66.17	-7,897.38	7,896.20	1.10	0.34	-1.04
13,682.00	90.34	271.37	6,065.96	68.08	-7,992.36	7,991.16	1.43	1.36	0.46
13,777.00	88.26	269.47	6,067.12	68.78	-8,087.34	8,086.12	2.97	-2.19	-2.00
13,873.00	89.61	267.56	6,068.91	66.29	-8,183.29	8,182.09	2.44	1.41	-1.99
13,968.00	88.72	267.67	6,070.29	62.34	-8,278.19	8,277.03	0.94	-0.94	0.12
14,063.00	92.21	268.36	6,069.52	59.05	-8,373.12	8,371.99	3.74	3.67	0.73
14,159.00	91.52	268.98	6,066.40	56.82	-8,469.04	8,467.93	0.97	-0.72	0.65
14,255.00	90.04	267.47	6,065.09	53.85	-8,564.98	8,563.89	2.20	-1.54	-1.57
14,351.00	89.55	267.93	6,065.43	49.99	-8,660.90	8,659.85	0.70	-0.51	0.48
14,447.00	89.10	268.01	6,066.56	46.59	-8,756.83	8,755.82	0.48	-0.47	0.08
14,543.00	88.36	268.30	6,068.69	43.50	-8,852.76	8,851.77	0.83	-0.77	0.30
14,638.00	89.33	269.01	6,070.61	41.27	-8,947.71	8,946.74	1.27	1.02	0.75
14,734.00	89.81	269.59	6,071.33	40.10	-9,043.70	9,042.74	0.78	0.50	0.60
14,830.00	89.64	270.33	6,071.79	40.03	-9,139.70	9,138.73	0.79	-0.18	0.77
14,926.00	89.73	268.29	6,072.32	38.88	-9,235.69	9,234.72	2.13	0.09	-2.13
15,021.00	89.61	267.40	6,072.86	35.31	-9,330.62	9,329.69	0.95	-0.13	-0.94
15,116.00	89.71	268.79	6,073.43	32.15	-9,425.56	9,424.66	1.47	0.11	1.46
15,212.00	89.60	269.61	6,074.00	30.81	-9,521.55	9,520.66	0.86	-0.11	0.85
15,307.00	89.83	270.65	6,074.48	31.02	-9,616.54	9,615.65	1.12	0.24	1.09
15,403.00	89.74	272.63	6,074.84	33.77	-9,712.50	9,711.57	2.06	-0.09	2.06
15,498.00	91.24	271.09	6,074.03	36.85	-9,807.44	9,806.47	2.26	1.58	-1.62
15,594.00	91.25	270.69	6,071.94	38.34	-9,903.41	9,902.41	0.42	0.01	-0.42
15,689.00	91.25	271.40	6,069.87	40.08	-9,998.37	9,997.35	0.75	0.00	0.75
15,783.00	89.13	268.57	6,069.55	40.05	-10,092.35	10,091.33	3.76	-2.26	-3.01
15,878.00	88.19	269.21	6,071.78	38.21	-10,187.31	10,186.30	1.20	-0.99	0.67
15,973.00	89.60	268.92	6,073.61	36.66	-10,282.27	10,281.28	1.52	1.48	-0.31
16,068.00	89.97	270.61	6,073.97	36.27	-10,377.27	10,376.27	1.82	0.39	1.78

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-05-0909CS
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W RSU	MD Reference:	KB @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-05-0909CS	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)	
16,163.00	89.02	268.92	6,074.80	35.88	-10,472.26	10,471.26	2.04	-1.00	-1.78	
16,258.00	88.50	270.04	6,076.86	35.02	-10,567.23	10,566.23	1.30	-0.55	1.18	
16,352.00	88.31	268.06	6,079.48	33.46	-10,661.18	10,660.19	2.12	-0.20	-2.11	
16,448.00	86.52	264.78	6,083.81	27.48	-10,756.88	10,755.95	3.89	-1.86	-3.42	
16,500.00	88.76	267.57	6,085.95	24.01	-10,808.71	10,807.82	6.88	4.31	5.37	
16,543.00	88.27	267.82	6,087.06	22.28	-10,851.66	10,850.78	1.28	-1.14	0.58	
16,638.00	90.21	269.51	6,088.32	20.07	-10,946.62	10,945.76	2.71	2.04	1.78	
16,733.00	90.79	268.73	6,087.49	18.61	-11,041.60	11,040.75	1.02	0.61	-0.82	
16,810.93	91.63	269.00	6,085.85	17.07	-11,119.50	11,118.66	1.13	1.07	0.35	
Cross @ 16810.93' MD										
16,828.00	91.81	269.06	6,085.34	16.78	-11,136.56	11,135.72	1.13	1.07	0.35	
16,922.00	93.13	268.77	6,081.29	15.00	-11,230.45	11,229.63	1.44	1.40	-0.31	
16,942.00	93.28	269.03	6,080.17	14.62	-11,250.42	11,249.60	1.50	0.75	1.30	
Last MWD Survey @ 16942' MD										
17,010.00	93.28	269.03	6,076.28	13.47	-11,318.29	11,317.49	0.00	0.00	0.00	
Projection to TD @ 17010' MD 1324' FNL/ 198' FEL										

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
30° Inclination @ 5718.3 - actual wellpath misses target center by 0.07usft at 5718.34usft MD (5699.94 TVD, 163.66 N, -155.76 E) - Point	0.00	0.00	5,699.93	163.73	-155.76	1,371,595.88	3,355,428.27	40.346416	-104.224788
Cross @ 6046.71' MD - actual wellpath hits target center - Point	0.00	0.00	5,934.95	163.29	-382.00	1,371,592.18	3,355,202.06	40.346415	-104.225600
70° Inclination @ 6164.1 - actual wellpath misses target center by 0.04usft at 6164.13usft MD (5990.58 TVD, 162.86 N, -484.94 E) - Point	0.00	0.00	5,990.57	162.82	-484.95	1,371,590.24	3,355,099.13	40.346414	-104.225969
Cross @ 11434.41' MD - actual wellpath hits target center - Point	0.00	0.00	6,043.72	97.25	-5,747.00	1,371,448.97	3,349,838.56	40.346232	-104.244848
Cross @ 16810.93' MD - actual wellpath hits target center - Point	0.00	0.00	6,085.85	17.07	-11,119.50	1,371,291.50	3,344,467.77	40.346007	-104.264122

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-05-0909CS
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W RSU	MD Reference:	KB @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-05-0909CS	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)	
774.00	773.69	14.52	-9.98	Tie into Surface Surveys
890.00	889.54	19.71	-12.58	First MWD Survey @ 890' MD
5,718.34	5,699.94	163.66	-155.76	30° Inclination @ 5718.34' MD
6,046.71	5,934.95	163.29	-382.00	Cross @ 6046.71' MD
6,164.13	5,990.58	162.86	-484.94	70° Inclination @ 6164.13' MD
11,434.41	6,043.72	97.25	-5,747.00	Cross @ 11434.41' MD
16,810.93	6,085.85	17.07	-11,119.50	Cross @ 16810.93' MD
16,942.00	6,080.17	14.62	-11,250.42	Last MWD Survey @ 16942' MD
17,010.00	6,076.28	13.47	-11,318.29	Projection to TD @ 17010' MD 1324' FNL/ 198' FEL

Checked By: _____ Approved By: _____ Date: _____