



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

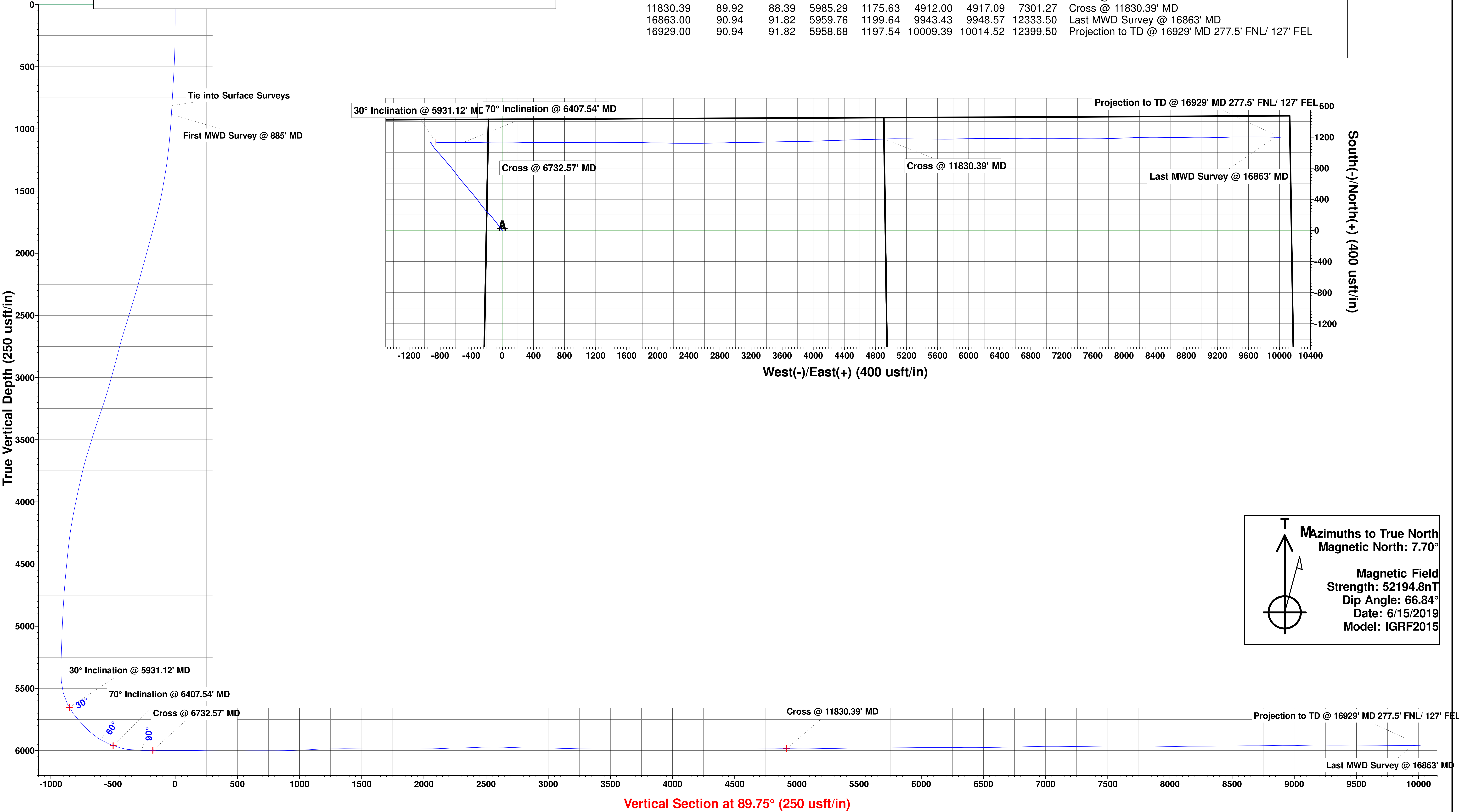
WELL DETAILS: RSU Anschutz Fed 4-61-04-0808C

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



HighPoint Resources
Project: Weld County, CO (NAD83)
Site: Sec 04-T04N-R61W
Well: RSU Anschutz Fed 4-61-04-0808C
Wellbore: Wellbore #1
Design: Wellbore #1 (RSU Anschutz Fed 4-61-04-0808C/Wellbore #1)
Cade 23

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
814.00	5.26	321.50	812.30	33.35	-26.34	-26.19	42.63	Tie into Surface Surveys	
885.00	5.30	319.70	883.00	38.40	-30.49	-30.32	49.16	First MWD Survey @ 885' MD	
5931.12	30.00	95.77	5653.71	1135.77	-856.99	-852.02	1532.73	30° Inclination @ 5931.12' MD	
6407.54	70.00	90.48	5960.49	1130.94	-504.43	-499.49	1884.29	70° Inclination @ 6407.54' MD	
6732.57	89.93	90.77	5998.66	1127.23	-184.00	-179.08	2204.32	Cross @ 6732.57' MD	
11830.39	89.92	88.39	5985.29	1175.63	4912.00	4917.09	7301.27	Cross @ 11830.39' MD	
16863.00	90.94	91.82	5959.76	1199.64	9943.43	9948.57	12333.50	Last MWD Survey @ 16863' MD	
16929.00	90.94	91.82	5958.68	1197.54	10009.39	10014.52	12399.50	Projection to TD @ 16929' MD 277.5' FNL/ 127' FEL	



Vertical Section at 89.75° (250 usft/in)

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Mazimuths to True North
Magnetic North: 7.70°

Magnetic Field
Strength: 52194.8nT
Dip Angle: 66.84°
Date: 6/15/2019
Model: IGRF2015

HighPoint Resources

Weld County, CO (NAD83)

Sec 04-T04N-R61W

RSU Anschutz Fed 4-61-04-0808C

Wellbore #1

Design: Wellbore #1

Standard Survey Report

12 July, 2019

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0808C
Project:	Weld County, CO (NAD83)	TVD Reference:	kb @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W	MD Reference:	kb @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-04-0808C	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						
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 4-61-04-0808C					
Well Position	+N/-S	0.00 usft	Northing:	1,371,465.70 usft	Latitude:	40.346060
	+E/-W	0.00 usft	Easting:	3,355,406.67 usft	Longitude:	-104.224872
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	6/15/2019	7.70	66.84	52,194.78929850

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	89.75	

Survey Program	Date	7/12/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
149.00	814.00	Surface Surveys (Wellbore #1)	MWD	MWD - Standard	
885.00	16,929.00	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	0.22	341.16	149.00	0.27	-0.09	-0.09	0.15	0.15	0.00	
241.00	0.93	302.64	240.99	0.84	-0.78	-0.77	0.84	0.77	-41.87	
333.00	2.08	321.86	332.96	2.56	-2.44	-2.43	1.35	1.25	20.89	
425.00	3.49	323.35	424.85	6.12	-5.14	-5.11	1.53	1.53	1.62	
517.00	5.17	324.99	516.59	11.76	-9.19	-9.14	1.83	1.83	1.78	
608.00	5.52	321.90	607.19	18.56	-14.24	-14.16	0.50	0.38	-3.40	
700.00	5.30	319.83	698.78	25.29	-19.71	-19.60	0.32	-0.24	-2.25	
792.00	5.21	321.02	790.39	31.78	-25.08	-24.94	0.15	-0.10	1.29	
814.00	5.26	321.50	812.30	33.35	-26.34	-26.19	0.30	0.23	2.18	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0808C
Project:	Weld County, CO (NAD83)	TVD Reference:	kb @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W	MD Reference:	kb @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-04-0808C	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)
Tie into Surface Surveys									
885.00	5.30	319.70	883.00	38.40	-30.49	-30.32	0.24	0.06	-2.54
First MWD Survey @ 885' MD									
977.00	6.89	323.88	974.48	46.10	-36.49	-36.29	1.79	1.73	4.54
1,070.00	8.79	325.51	1,066.60	56.46	-43.80	-43.55	2.06	2.04	1.75
1,161.00	10.47	324.59	1,156.32	68.93	-52.53	-52.23	1.85	1.85	-1.01
1,253.00	12.33	322.21	1,246.50	83.51	-63.39	-63.03	2.08	2.02	-2.59
1,345.00	14.23	320.75	1,336.04	100.03	-76.57	-76.13	2.10	2.07	-1.59
1,437.00	15.86	321.55	1,424.88	118.63	-91.54	-91.02	1.79	1.77	0.87
1,529.00	16.88	321.15	1,513.15	138.88	-107.74	-107.13	1.12	1.11	-0.43
1,624.00	19.09	319.04	1,603.50	161.36	-126.57	-125.87	2.42	2.33	-2.22
1,719.00	20.46	317.32	1,692.90	185.29	-148.02	-147.21	1.57	1.44	-1.81
1,814.00	21.48	316.17	1,781.61	210.05	-171.32	-170.40	1.16	1.07	-1.21
1,909.00	22.18	317.80	1,869.79	235.88	-195.41	-194.38	0.97	0.74	1.72
2,004.00	22.54	319.87	1,957.65	263.09	-219.19	-218.04	0.91	0.38	2.18
2,100.00	23.33	319.39	2,046.06	291.59	-243.42	-242.15	0.85	0.82	-0.50
2,196.00	24.08	321.59	2,133.96	321.37	-267.96	-266.56	1.21	0.78	2.29
2,291.00	25.10	326.62	2,220.36	353.38	-291.09	-289.55	2.45	1.07	5.29
2,386.00	26.34	323.05	2,305.95	387.05	-314.85	-313.16	2.09	1.31	-3.76
2,481.00	25.72	320.75	2,391.31	419.86	-340.56	-338.73	1.25	-0.65	-2.42
2,575.00	25.54	320.14	2,476.06	451.21	-366.46	-364.48	0.34	-0.19	-0.65
2,671.00	25.67	319.48	2,562.64	482.90	-393.23	-391.12	0.33	0.14	-0.69
2,765.00	25.06	318.38	2,647.58	513.26	-419.68	-417.44	0.82	-0.65	-1.17
2,859.00	23.02	321.72	2,733.42	542.58	-444.29	-441.92	2.61	-2.17	3.55
2,954.00	21.96	320.58	2,821.20	570.88	-467.08	-464.58	1.21	-1.12	-1.20
3,049.00	22.85	318.99	2,909.02	598.52	-490.46	-487.85	1.13	0.94	-1.67
3,144.00	23.07	318.82	2,996.50	626.45	-514.82	-512.08	0.24	0.23	-0.18
3,238.00	24.53	320.75	3,082.50	655.42	-539.30	-536.43	1.76	1.55	2.05
3,333.00	27.66	323.00	3,167.81	688.32	-565.05	-562.04	3.45	3.29	2.37
3,428.00	29.96	322.96	3,251.05	724.87	-592.61	-589.45	2.42	2.42	-0.04
3,522.00	29.21	322.12	3,332.79	761.71	-620.84	-617.51	0.91	-0.80	-0.89
3,617.00	27.40	321.33	3,416.43	797.07	-648.73	-645.25	1.95	-1.91	-0.83
3,712.00	25.45	318.95	3,501.50	829.54	-675.80	-672.17	2.34	-2.05	-2.51
3,807.00	25.01	319.48	3,587.44	860.20	-702.25	-698.49	0.52	-0.46	0.56
3,901.00	23.99	319.39	3,672.97	889.81	-727.60	-723.71	1.09	-1.09	-0.10
3,996.00	19.84	319.56	3,761.09	916.75	-750.64	-746.63	4.37	-4.37	0.18
4,092.00	19.31	320.45	3,851.54	941.39	-771.31	-767.20	0.63	-0.55	0.93
4,186.00	17.50	317.85	3,940.73	963.85	-790.69	-786.48	2.11	-1.93	-2.77
4,281.00	16.48	316.48	4,031.58	984.21	-809.56	-805.26	1.15	-1.07	-1.44
4,376.00	15.29	316.83	4,122.95	1,003.12	-827.41	-823.02	1.26	-1.25	0.37
4,471.00	12.99	316.92	4,215.07	1,020.06	-843.27	-838.81	2.42	-2.42	0.09
4,566.00	11.40	321.55	4,307.93	1,035.21	-856.40	-851.88	1.96	-1.67	4.87
4,661.00	10.21	323.58	4,401.24	1,049.34	-867.24	-862.66	1.31	-1.25	2.14

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0808C
Project:	Weld County, CO (NAD83)	TVD Reference:	kb @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W	MD Reference:	kb @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-04-0808C	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)
4,757.00	9.24	324.81	4,495.86	1,062.49	-876.74	-872.09	1.03	-1.01	1.28
4,852.00	9.41	323.84	4,589.60	1,074.99	-885.71	-881.01	0.24	0.18	-1.02
4,947.00	7.91	326.57	4,683.52	1,086.72	-893.90	-889.15	1.64	-1.58	2.87
5,043.00	6.58	327.54	4,778.75	1,096.87	-900.49	-895.69	1.39	-1.39	1.01
5,138.00	5.52	323.66	4,873.22	1,105.14	-906.12	-901.29	1.20	-1.12	-4.08
5,234.00	4.46	324.81	4,968.85	1,111.91	-911.01	-906.15	1.11	-1.10	1.20
5,329.00	3.93	324.06	5,063.60	1,117.57	-915.04	-910.16	0.56	-0.56	-0.79
5,424.00	3.36	323.93	5,158.41	1,122.45	-918.59	-913.69	0.60	-0.60	-0.14
5,520.00	2.87	327.67	5,254.27	1,126.76	-921.54	-916.61	0.55	-0.51	3.90
5,614.00	1.10	324.50	5,348.21	1,129.48	-923.32	-918.38	1.89	-1.88	-3.37
5,709.00	5.52	46.44	5,443.05	1,133.38	-920.54	-915.58	5.76	4.65	86.25
5,805.00	14.94	82.88	5,537.49	1,138.11	-904.86	-899.89	11.45	9.81	37.96
5,900.00	26.38	96.28	5,626.28	1,137.31	-871.60	-866.63	12.96	12.04	14.11
5,931.12	30.00	95.77	5,653.71	1,135.77	-856.99	-852.02	11.65	11.63	-1.65
30° Inclination @ 5931.12' MD									
5,995.00	37.43	95.00	5,706.81	1,132.47	-821.71	-816.76	11.65	11.63	-1.20
6,090.00	43.44	91.12	5,779.09	1,129.31	-760.23	-755.29	6.86	6.33	-4.08
6,185.00	45.34	88.92	5,846.98	1,129.31	-693.78	-688.85	2.57	2.00	-2.32
6,280.00	58.33	88.78	5,905.56	1,130.82	-619.27	-614.33	13.67	13.67	-0.15
6,375.00	67.57	90.59	5,948.72	1,131.23	-534.76	-529.82	9.87	9.73	1.91
6,407.54	70.00	90.48	5,960.49	1,130.94	-504.43	-499.49	7.47	7.47	-0.34
70° Inclination @ 6407.54' MD									
6,469.00	74.59	90.28	5,979.18	1,130.56	-445.89	-440.96	7.47	7.47	-0.32
6,526.00	81.75	90.50	5,990.86	1,130.18	-390.14	-385.21	12.57	12.56	0.39
6,652.00	90.72	91.03	5,999.12	1,128.50	-264.55	-259.63	7.13	7.12	0.42
6,732.57	89.93	90.77	5,998.66	1,127.23	-184.00	-179.08	1.03	-0.98	-0.33
Cross @ 6732.57' MD									
6,747.00	89.79	90.72	5,998.70	1,127.04	-169.57	-164.65	1.03	-0.98	-0.33
6,842.00	89.93	91.25	5,998.93	1,125.41	-74.58	-69.67	0.58	0.15	0.56
6,938.00	89.79	89.36	5,999.17	1,124.90	21.41	26.32	1.97	-0.15	-1.97
7,033.00	90.01	89.09	5,999.33	1,126.19	116.40	121.32	0.37	0.23	-0.28
7,127.00	88.29	89.14	6,000.73	1,127.64	210.38	215.30	1.83	-1.83	0.05
7,222.00	89.84	88.96	6,002.28	1,129.21	305.35	310.27	1.64	1.63	-0.19
7,318.00	89.66	88.87	6,002.69	1,131.03	401.33	406.26	0.21	-0.19	-0.09
7,412.00	89.93	89.80	6,003.03	1,132.12	495.32	500.26	1.03	0.29	0.99
7,508.00	91.43	90.63	6,001.89	1,131.76	591.31	596.25	1.79	1.56	0.86
7,603.00	89.09	90.24	6,001.46	1,131.04	686.30	691.23	2.50	-2.46	-0.41
7,698.00	90.50	90.41	6,001.80	1,130.50	781.30	786.22	1.49	1.48	0.18
7,793.00	90.99	90.68	6,000.57	1,129.60	876.28	881.21	0.59	0.52	0.28
7,888.00	92.22	88.83	5,997.90	1,130.00	971.24	976.16	2.34	1.29	-1.95
7,984.00	93.24	89.18	5,993.33	1,131.67	1,067.12	1,072.04	1.12	1.06	0.36
8,048.00	92.31	88.61	5,990.23	1,132.90	1,131.03	1,135.96	1.70	-1.45	-0.89
8,080.00	92.31	88.74	5,988.94	1,133.64	1,162.99	1,167.93	0.41	0.00	0.41
8,175.00	91.21	90.02	5,986.03	1,134.67	1,257.94	1,262.88	1.78	-1.16	1.35

Survey Report

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Project:	Weld County, CO (NAD83)	TVD Reference:	kb @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W	MD Reference:	kb @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-04-0808C	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)	
8,271.00	89.93	90.50	5,985.07	1,134.23	1,353.93	1,358.87	1.42	-1.33	0.50	
8,366.00	89.35	90.28	5,985.67	1,133.58	1,448.93	1,453.86	0.65	-0.61	-0.23	
8,461.00	88.42	90.86	5,987.52	1,132.64	1,543.90	1,548.83	1.15	-0.98	0.61	
8,556.00	90.19	90.90	5,988.67	1,131.18	1,638.88	1,643.80	1.86	1.86	0.04	
8,650.00	89.35	90.50	5,989.05	1,130.03	1,732.87	1,737.79	0.99	-0.89	-0.43	
8,745.00	90.63	91.43	5,989.06	1,128.43	1,827.86	1,832.76	1.67	1.35	0.98	
8,840.00	91.38	90.77	5,987.40	1,126.61	1,922.82	1,927.72	1.05	0.79	-0.69	
8,934.00	89.70	90.24	5,986.51	1,125.78	2,016.81	2,021.70	1.87	-1.79	-0.56	
9,029.00	92.27	91.47	5,984.88	1,124.36	2,111.78	2,116.66	3.00	2.71	1.29	
9,124.00	91.87	91.16	5,981.45	1,122.19	2,206.69	2,211.56	0.53	-0.42	-0.33	
9,219.00	91.52	89.93	5,978.64	1,121.28	2,301.64	2,306.51	1.35	-0.37	-1.29	
9,314.00	91.96	89.67	5,975.75	1,121.61	2,396.60	2,401.47	0.54	0.46	-0.27	
9,408.00	91.87	90.28	5,972.61	1,121.65	2,490.54	2,495.41	0.66	-0.10	0.65	
9,503.00	88.42	89.00	5,972.37	1,122.25	2,585.53	2,590.40	3.87	-3.63	-1.35	
9,598.00	88.25	89.09	5,975.13	1,123.83	2,680.47	2,685.35	0.20	-0.18	0.09	
9,693.00	88.64	89.67	5,977.71	1,124.86	2,775.43	2,780.31	0.74	0.41	0.61	
9,788.00	89.35	87.81	5,979.37	1,126.95	2,870.39	2,875.28	2.10	0.75	-1.96	
9,883.00	89.35	88.52	5,980.45	1,129.99	2,965.33	2,970.24	0.75	0.00	0.75	
9,978.00	88.95	89.00	5,981.86	1,132.05	3,060.30	3,065.21	0.66	-0.42	0.51	
10,074.00	88.73	90.11	5,983.80	1,132.79	3,156.28	3,161.19	1.18	-0.23	1.16	
10,168.00	88.91	88.83	5,985.74	1,133.66	3,250.25	3,255.17	1.37	0.19	-1.36	
10,263.00	89.79	88.92	5,986.82	1,135.53	3,345.22	3,350.15	0.93	0.93	0.09	
10,358.00	89.09	88.74	5,987.75	1,137.47	3,440.20	3,445.13	0.76	-0.74	-0.19	
10,453.00	90.41	89.14	5,988.16	1,139.23	3,535.18	3,540.12	1.45	1.39	0.42	
10,548.00	89.97	88.87	5,987.85	1,140.87	3,630.16	3,635.11	0.54	-0.46	-0.28	
10,642.00	88.95	89.49	5,988.73	1,142.22	3,724.15	3,729.10	1.27	-1.09	0.66	
10,737.00	90.37	88.65	5,989.30	1,143.76	3,819.13	3,824.09	1.74	1.49	-0.88	
10,833.00	90.32	88.17	5,988.72	1,146.43	3,915.09	3,920.06	0.50	-0.05	-0.50	
10,927.00	90.37	88.83	5,988.15	1,148.89	4,009.06	4,014.03	0.70	0.05	0.70	
11,022.00	90.41	88.08	5,987.50	1,151.45	4,104.02	4,109.01	0.79	0.04	-0.79	
11,117.00	89.70	87.81	5,987.41	1,154.85	4,198.96	4,203.96	0.80	-0.75	-0.28	
11,212.00	89.62	87.81	5,987.98	1,158.48	4,293.89	4,298.90	0.08	-0.08	0.00	
11,308.00	89.31	87.81	5,988.87	1,162.15	4,389.81	4,394.84	0.32	-0.32	0.00	
11,404.00	90.68	88.96	5,988.88	1,164.86	4,485.77	4,490.81	1.86	1.43	1.20	
11,499.00	90.59	88.87	5,987.83	1,166.66	4,580.75	4,585.80	0.13	-0.09	-0.09	
11,594.00	90.68	88.12	5,986.78	1,169.15	4,675.71	4,680.77	0.80	0.09	-0.79	
11,689.00	90.41	88.43	5,985.87	1,172.01	4,770.66	4,775.73	0.43	-0.28	0.33	
11,781.00	90.23	88.65	5,985.36	1,174.36	4,862.63	4,867.71	0.31	-0.20	0.24	
11,830.39	89.92	88.39	5,985.29	1,175.63	4,912.00	4,917.09	0.81	-0.62	-0.52	
Cross @ 11830.39' MD										
11,873.00	89.66	88.17	5,985.45	1,176.91	4,954.59	4,959.68	0.81	-0.62	-0.52	
11,964.00	89.75	89.44	5,985.92	1,178.81	5,045.57	5,050.67	1.40	0.10	1.40	
12,057.00	90.85	91.08	5,985.43	1,178.38	5,138.56	5,143.66	2.12	1.18	1.76	
12,148.00	90.85	90.41	5,984.08	1,177.20	5,229.55	5,234.63	0.74	0.00	-0.74	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0808C
Project:	Weld County, CO (NAD83)	TVD Reference:	kb @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W	MD Reference:	kb @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-04-0808C	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)
12,240.00	90.99	90.19	5,982.60	1,176.72	5,321.53	5,326.62	0.28	0.15	-0.24
12,332.00	90.59	90.19	5,981.33	1,176.41	5,413.52	5,418.61	0.43	-0.43	0.00
12,424.00	90.10	89.93	5,980.78	1,176.32	5,505.52	5,510.60	0.60	-0.53	-0.28
12,516.00	91.30	90.55	5,979.66	1,175.93	5,597.51	5,602.59	1.47	1.30	0.67
12,608.00	90.68	90.37	5,978.07	1,175.19	5,689.49	5,694.57	0.70	-0.67	-0.20
12,700.00	89.93	89.44	5,977.58	1,175.35	5,781.49	5,786.56	1.30	-0.82	-1.01
12,792.00	90.63	87.99	5,977.13	1,177.41	5,873.46	5,878.55	1.75	0.76	-1.58
12,884.00	90.37	89.49	5,976.32	1,179.43	5,965.44	5,970.53	1.65	-0.28	1.63
12,976.00	90.32	89.36	5,975.77	1,180.36	6,057.43	6,062.52	0.15	-0.05	-0.14
13,068.00	89.40	89.18	5,975.99	1,181.53	6,149.42	6,154.52	1.02	-1.00	-0.20
13,163.00	90.77	89.27	5,975.85	1,182.81	6,244.41	6,249.51	1.45	1.44	0.09
13,257.00	90.37	90.46	5,974.92	1,183.03	6,338.40	6,343.50	1.34	-0.43	1.27
13,352.00	89.66	90.72	5,974.89	1,182.06	6,433.40	6,438.49	0.80	-0.75	0.27
13,447.00	89.70	90.81	5,975.42	1,180.79	6,528.39	6,533.48	0.10	0.04	0.09
13,542.00	91.52	90.11	5,974.41	1,180.02	6,623.37	6,628.46	2.05	1.92	-0.74
13,636.00	91.47	90.24	5,971.96	1,179.74	6,717.34	6,722.43	0.15	-0.05	0.14
13,731.00	91.12	89.22	5,969.81	1,180.19	6,812.32	6,817.40	1.13	-0.37	-1.07
13,826.00	91.07	90.50	5,968.00	1,180.42	6,907.30	6,912.38	1.35	-0.05	1.35
13,921.00	90.46	90.50	5,966.73	1,179.59	7,002.28	7,007.36	0.64	-0.64	0.00
14,015.00	89.53	89.18	5,966.74	1,179.85	7,096.28	7,101.36	1.72	-0.99	-1.40
14,111.00	89.84	89.89	5,967.27	1,180.63	7,192.27	7,197.36	0.81	0.32	0.74
14,205.00	89.00	90.63	5,968.22	1,180.20	7,286.27	7,291.35	1.19	-0.89	0.79
14,300.00	89.66	90.02	5,969.33	1,179.66	7,381.26	7,386.33	0.95	0.69	-0.64
14,395.00	89.00	90.86	5,970.44	1,178.94	7,476.25	7,481.32	1.12	-0.69	0.88
14,490.00	90.19	89.62	5,971.11	1,178.54	7,571.24	7,576.31	1.81	1.25	-1.31
14,585.00	89.44	89.89	5,971.42	1,178.94	7,666.24	7,671.31	0.84	-0.79	0.28
14,680.00	91.25	88.21	5,970.84	1,180.52	7,761.22	7,766.29	2.60	1.91	-1.77
14,775.00	89.70	87.46	5,970.06	1,184.11	7,856.14	7,861.23	1.81	-1.63	-0.79
14,869.00	91.38	88.21	5,969.17	1,187.66	7,950.07	7,955.17	1.96	1.79	0.80
14,964.00	91.21	88.52	5,967.02	1,190.37	8,045.00	8,050.12	0.37	-0.18	0.33
15,059.00	90.10	86.85	5,965.94	1,194.21	8,139.91	8,145.05	2.11	-1.17	-1.76
15,154.00	90.37	89.05	5,965.55	1,197.60	8,234.85	8,239.99	2.33	0.28	2.32
15,249.00	90.01	88.70	5,965.23	1,199.47	8,329.83	8,334.98	0.53	-0.38	-0.37
15,345.00	91.43	91.47	5,964.03	1,199.33	8,425.81	8,430.96	3.24	1.48	2.89
15,440.00	90.63	91.34	5,962.32	1,197.00	8,520.76	8,525.91	0.85	-0.84	-0.14
15,535.00	90.10	90.94	5,961.71	1,195.11	8,615.74	8,620.88	0.70	-0.56	-0.42
15,630.00	90.06	90.41	5,961.58	1,193.99	8,710.74	8,715.86	0.56	-0.04	-0.56
15,725.00	91.96	90.94	5,959.91	1,192.87	8,805.71	8,810.83	2.08	2.00	0.56
15,820.00	89.84	90.19	5,958.41	1,191.93	8,900.69	8,905.80	2.37	-2.23	-0.79
15,915.00	89.26	89.97	5,959.16	1,191.80	8,995.68	9,000.80	0.65	-0.61	-0.23
16,010.00	88.29	89.36	5,961.19	1,192.36	9,090.66	9,095.77	1.21	-1.02	-0.64
16,105.00	90.10	87.95	5,962.53	1,194.59	9,185.62	9,190.74	2.42	1.91	-1.48
16,200.00	90.59	88.08	5,961.95	1,197.88	9,280.56	9,285.70	0.53	0.52	0.14

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0808C
Project:	Weld County, CO (NAD83)	TVD Reference:	kb @ 4518.00usft (Cade 23)
Site:	Sec 04-T04N-R61W	MD Reference:	kb @ 4518.00usft (Cade 23)
Well:	RSU Anschutz Fed 4-61-04-0808C	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)	
16,295.00	89.44	87.86	5,961.93	1,201.24	9,375.50	9,380.65	1.23	-1.21	-0.23	
16,390.00	90.28	90.59	5,962.16	1,202.53	9,470.48	9,475.63	3.01	0.88	2.87	
16,485.00	90.01	89.49	5,961.92	1,202.46	9,565.48	9,570.63	1.19	-0.28	-1.16	
16,580.00	90.54	89.80	5,961.47	1,203.05	9,660.47	9,665.63	0.65	0.56	0.33	
16,675.00	90.94	90.94	5,960.24	1,202.43	9,755.46	9,760.61	1.27	0.42	1.20	
16,770.00	89.35	90.33	5,960.00	1,201.38	9,850.45	9,855.60	1.79	-1.67	-0.64	
16,863.00	90.94	91.82	5,959.76	1,199.64	9,943.43	9,948.57	2.34	1.71	1.60	
Last MWD Survey @ 16863' MD										
16,929.00	90.94	91.82	5,958.68	1,197.54	10,009.39	10,014.52	0.00	0.00	0.00	
Projection to TD @ 16929' MD 277.5' FNL/ 127' FEL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
30° Inclination @ 5931.1	0.00	0.00	5,653.71	1,135.76	-856.99	1,372,589.02	3,354,533.45	40.349178	-104.227947	
- actual wellpath misses target center by 0.01usft at 5931.12usft MD (5653.71 TVD, 1135.77 N, -856.99 E)										
- Point										
70° Inclination @ 6407.5	0.00	0.00	5,960.49	1,130.94	-504.43	1,372,589.27	3,354,886.04	40.349165	-104.226682	
- actual wellpath hits target center										
- Point										
Cross @ 11830.39' MD	0.00	0.00	5,985.29	1,175.63	4,912.00	1,372,711.84	3,360,301.25	40.349286	-104.207249	
- actual wellpath hits target center										
- Point										
Cross @ 6732.57' MD	0.00	0.00	5,998.66	1,127.23	-184.00	1,372,590.17	3,355,206.48	40.349154	-104.225532	
- actual wellpath hits target center										
- Point										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
814.00	812.30	33.35	-26.34	Tie into Surface Surveys	
885.00	883.00	38.40	-30.49	First MWD Survey @ 885' MD	
5,931.12	5,653.71	1,135.77	-856.99	30° Inclination @ 5931.12' MD	
6,407.54	5,960.49	1,130.94	-504.43	70° Inclination @ 6407.54' MD	
6,732.57	5,998.66	1,127.23	-184.00	Cross @ 6732.57' MD	
11,830.39	5,985.29	1,175.63	4,912.00	Cross @ 11830.39' MD	
16,863.00	5,959.76	1,199.64	9,943.43	Last MWD Survey @ 16863' MD	
16,929.00	5,958.68	1,197.54	10,009.39	Projection to TD @ 16929' MD 277.5' FNL/ 127' FEL	

Checked By: _____ Approved By: _____ Date: _____