



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

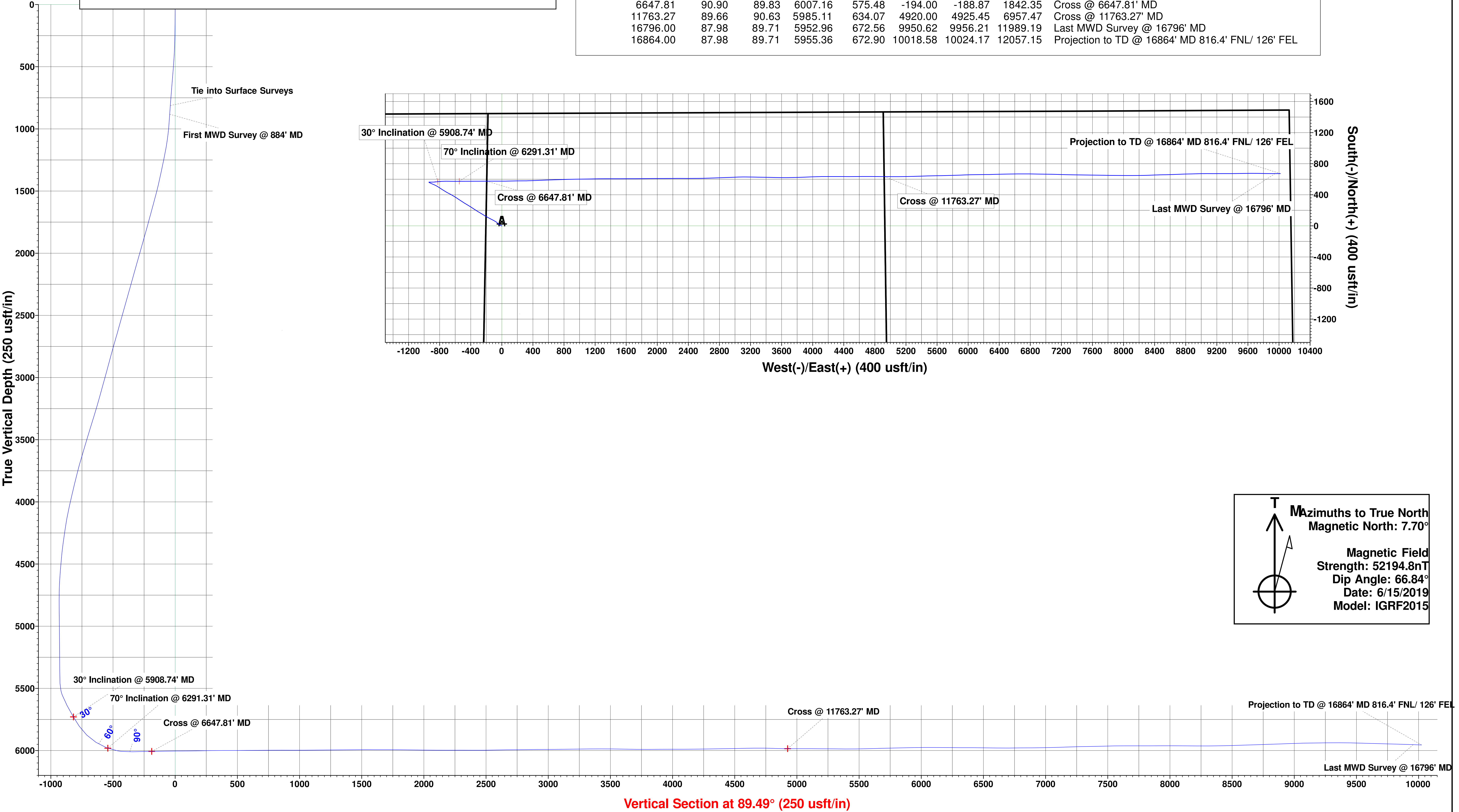
WELL DETAILS: RSU Anschutz Fed 4-61-04-0909CN

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 4-61-04-0909CN
Wellbore: Wellbore #1
Design: Wellbore #1 (RSU Anschutz Fed 4-61-04-0909CN/Wellbore #1)
Cade 23

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
814.00	5.08	305.20	812.24	20.84	-39.27	-39.08	44.93	Tie into Surface Surveys	
884.00	5.08	307.58	881.97	24.51	-44.26	-44.04	51.12	First MWD Survey @ 884' MD	
5908.74	30.00	84.06	5729.72	568.66	-823.43	-818.33	1212.92	30° Inclination @ 5908.74' MD	
6291.31	70.00	89.44	5981.11	573.99	-547.06	-541.93	1489.57	70° Inclination @ 6291.31' MD	
6647.81	90.90	89.83	6007.16	575.48	-194.00	-188.87	1842.35	Cross @ 6647.81' MD	
11763.27	89.66	90.63	5985.11	634.07	4920.00	4925.45	6957.47	Cross @ 11763.27' MD	
16796.00	87.98	89.71	5952.96	672.56	9950.62	9956.21	11989.19	Last MWD Survey @ 16796' MD	
16864.00	87.98	89.71	5955.36	672.90	10018.58	10024.17	12057.15	Projection to TD @ 16864' MD 816.4' FNL/ 126' FEL	



HighPoint Resources

Weld County, CO (NAD83)

Sec 04-T04N-R61W

RSU Anschutz Fed 4-61-04-0909CN

Wellbore #1

Design: Wellbore #1

Standard Survey Report

26 July, 2019

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0909CN
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 4-61-04-0909CN	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 4-61-04-0909CN					
Well Position	+N/-S	0.00 usft	Northing:	1,371,450.76 usft	Latitude:	40.346019
	+E/-W	0.00 usft	Easting:	3,355,406.33 usft	Longitude:	-104.224874
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	52,194.77034443

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	89.49	

Survey Program	Date	7/26/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
149.00	814.00	Surface Surveys (Wellbore #1)	MWD	MWD - Standard	
814.00	16,864.00	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	0.62	260.07	149.00	-0.14	-0.79	-0.80	0.42	0.42	0.00	
241.00	1.15	278.93	240.99	-0.08	-2.20	-2.20	0.65	0.58	20.50	
333.00	2.52	295.46	332.94	0.93	-4.93	-4.93	1.58	1.49	17.97	
425.00	3.93	302.47	424.79	3.49	-9.42	-9.39	1.59	1.53	7.62	
517.00	5.17	298.59	516.50	7.17	-15.72	-15.66	1.39	1.35	-4.22	
608.00	5.35	295.90	607.11	10.98	-23.14	-23.04	0.34	0.20	-2.96	
700.00	5.30	301.45	698.72	15.08	-30.62	-30.48	0.56	-0.05	6.03	
792.00	5.21	305.20	790.33	19.70	-37.66	-37.48	0.39	-0.10	4.08	
814.00	5.08	305.20	812.24	20.84	-39.27	-39.08	0.59	-0.59	0.00	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0909CN
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 4-61-04-0909CN	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									
884.00	5.08	307.58	881.97	24.51	-44.26	-44.04	0.30	0.00	3.40
First MWD Survey @ 884' MD									
976.00	6.58	317.58	973.49	30.89	-51.04	-50.77	1.96	1.63	10.87
1,069.00	10.52	314.19	1,065.44	40.75	-60.73	-60.36	4.27	4.24	-3.65
1,161.00	12.20	302.91	1,155.65	51.88	-74.91	-74.45	3.02	1.83	-12.26
1,252.00	12.99	298.41	1,244.46	61.97	-91.98	-91.43	1.38	0.87	-4.95
1,344.00	13.79	298.10	1,333.96	72.06	-110.75	-110.11	0.87	0.87	-0.34
1,436.00	13.92	296.61	1,423.28	82.18	-130.32	-129.58	0.41	0.14	-1.62
1,528.00	16.62	298.28	1,512.02	93.37	-151.80	-150.96	2.97	2.93	1.82
1,623.00	17.01	298.50	1,602.96	106.44	-175.98	-175.02	0.42	0.41	0.23
1,718.00	17.10	297.80	1,693.78	119.58	-200.54	-199.47	0.24	0.09	-0.74
1,813.00	18.12	302.38	1,784.34	134.01	-225.38	-224.18	1.81	1.07	4.82
1,908.00	18.52	301.72	1,874.52	149.85	-250.69	-249.34	0.47	0.42	-0.69
2,003.00	18.60	301.10	1,964.58	165.61	-276.49	-275.01	0.22	0.08	-0.65
2,099.00	18.12	299.69	2,055.69	180.91	-302.57	-300.95	0.68	-0.50	-1.47
2,195.00	18.60	303.79	2,146.81	196.82	-328.27	-326.50	1.43	0.50	4.27
2,290.00	18.91	304.01	2,236.77	213.86	-353.62	-351.70	0.33	0.33	0.23
2,385.00	18.78	302.69	2,326.67	230.73	-379.25	-377.18	0.47	-0.14	-1.39
2,480.00	18.38	301.59	2,416.72	246.84	-404.88	-402.66	0.56	-0.42	-1.16
2,574.00	18.21	301.01	2,505.97	262.17	-430.09	-427.74	0.26	-0.18	-0.62
2,670.00	17.72	300.70	2,597.29	277.35	-455.51	-453.02	0.52	-0.51	-0.32
2,764.00	19.09	302.29	2,686.48	292.87	-480.80	-478.18	1.55	1.46	1.69
2,858.00	18.69	303.22	2,775.42	309.33	-506.40	-503.62	0.53	-0.43	0.99
2,953.00	17.72	303.30	2,865.66	325.61	-531.22	-528.30	1.02	-1.02	0.08
3,048.00	18.29	303.79	2,956.01	341.84	-555.69	-552.62	0.62	0.60	0.52
3,143.00	18.29	302.91	3,046.21	358.22	-580.59	-577.38	0.29	0.00	-0.93
3,237.00	18.21	301.98	3,135.48	374.02	-605.43	-602.08	0.32	-0.09	-0.99
3,332.00	18.60	300.22	3,225.62	389.51	-631.12	-627.62	0.71	0.41	-1.85
3,427.00	19.18	298.28	3,315.51	404.52	-657.95	-654.32	0.90	0.61	-2.04
3,521.00	19.40	296.61	3,404.23	418.83	-685.51	-681.75	0.63	0.23	-1.78
3,616.00	19.35	301.45	3,493.86	434.11	-713.04	-709.15	1.69	-0.05	5.09
3,711.00	19.49	301.72	3,583.45	450.66	-739.95	-735.91	0.18	0.15	0.28
3,806.00	18.82	302.11	3,673.19	467.13	-766.41	-762.22	0.72	-0.71	0.41
3,900.00	16.70	303.08	3,762.71	482.57	-790.57	-786.25	2.28	-2.26	1.03
3,995.00	16.39	302.86	3,853.77	497.29	-813.27	-808.81	0.33	-0.33	-0.23
4,091.00	15.11	300.79	3,946.17	511.04	-835.40	-830.81	1.46	-1.33	-2.16
4,185.00	13.83	296.17	4,037.19	522.27	-856.00	-851.32	1.83	-1.36	-4.91
4,280.00	11.40	293.30	4,129.89	530.99	-874.82	-870.06	2.64	-2.56	-3.02
4,375.00	9.15	293.83	4,223.36	537.76	-890.36	-885.53	2.37	-2.37	0.56
4,470.00	8.84	291.63	4,317.19	543.50	-904.05	-899.18	0.49	-0.33	-2.32
4,565.00	6.36	295.99	4,411.35	548.50	-915.57	-910.65	2.68	-2.61	4.59
4,660.00	5.79	297.58	4,505.82	553.03	-924.55	-919.59	0.63	-0.60	1.67

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0909CN
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 4-61-04-0909CN	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)
4,756.00	4.51	300.00	4,601.43	557.15	-932.11	-927.11	1.35	-1.33	2.52
4,851.00	2.47	315.47	4,696.25	560.48	-936.78	-931.75	2.35	-2.15	16.28
4,946.00	0.53	15.68	4,791.21	562.36	-938.09	-933.05	2.37	-2.04	63.38
5,042.00	0.53	66.57	4,887.21	562.97	-937.57	-932.52	0.47	0.00	53.01
5,137.00	0.49	96.58	4,982.21	563.10	-936.76	-931.71	0.28	-0.04	31.59
5,233.00	0.66	85.04	5,078.20	563.10	-935.80	-930.75	0.21	0.18	-12.02
5,328.00	0.49	91.25	5,173.20	563.14	-934.85	-929.80	0.19	-0.18	6.54
5,423.00	0.53	83.28	5,268.19	563.18	-934.01	-928.96	0.09	0.04	-8.39
5,519.00	0.49	69.39	5,364.19	563.38	-933.18	-928.13	0.13	-0.04	-14.47
5,614.00	1.72	71.55	5,459.17	563.97	-931.45	-926.39	1.30	1.29	2.27
5,677.00	13.61	97.29	5,521.50	563.33	-923.17	-918.12	19.18	18.87	40.86
5,709.00	20.15	93.41	5,552.11	562.52	-913.92	-908.88	20.73	20.44	-12.13
5,804.00	29.08	84.86	5,638.41	563.62	-874.50	-869.45	10.10	9.40	-9.00
5,899.00	29.52	83.94	5,721.26	568.16	-828.24	-823.15	0.66	0.46	-0.97
5,908.74	30.00	84.06	5,729.72	568.66	-823.43	-818.33	4.96	4.92	1.23
30° Inclination @ 5908.74' MD									
5,995.00	34.25	84.99	5,802.75	573.01	-777.78	-772.65	4.96	4.93	1.08
6,090.00	46.44	90.59	5,875.04	575.00	-716.47	-711.33	13.38	12.83	5.89
6,185.00	57.00	90.94	5,933.81	573.99	-642.01	-636.88	11.12	11.12	0.37
6,280.00	68.67	89.31	5,977.11	573.87	-557.64	-552.51	12.38	12.28	-1.72
6,291.31	70.00	89.44	5,981.11	573.99	-547.06	-541.93	11.81	11.75	1.19
70° Inclination @ 6291.31' MD									
6,374.00	79.72	90.37	6,002.68	574.10	-467.34	-462.21	11.81	11.76	1.12
6,403.00	83.96	89.36	6,006.79	574.17	-438.64	-433.51	15.02	14.62	-3.48
6,493.00	91.78	90.06	6,010.14	574.62	-348.77	-343.64	8.72	8.69	0.78
6,557.00	90.94	89.44	6,008.62	574.90	-284.79	-279.66	1.63	-1.31	-0.97
6,647.81	90.90	89.83	6,007.16	575.48	-194.00	-188.87	0.43	-0.04	0.43
Cross @ 6647.81' MD									
6,651.00	90.90	89.84	6,007.11	575.49	-190.81	-185.68	0.43	-0.04	0.43
6,746.00	91.43	90.28	6,005.18	575.39	-95.83	-90.70	0.73	0.56	0.46
6,841.00	90.10	89.80	6,003.91	575.33	-0.84	4.28	1.49	-1.40	-0.51
6,937.00	90.59	88.48	6,003.33	576.77	95.15	100.28	1.47	0.51	-1.38
7,032.00	90.85	89.18	6,002.14	578.71	190.12	195.26	0.79	0.27	0.74
7,126.00	90.85	89.71	6,000.74	579.62	284.11	289.25	0.56	0.00	0.56
7,221.00	90.06	87.46	5,999.99	581.96	379.07	384.23	2.51	-0.83	-2.37
7,317.00	90.37	87.77	5,999.63	585.96	474.98	480.18	0.46	0.32	0.32
7,411.00	90.19	88.21	5,999.17	589.26	568.92	574.15	0.51	-0.19	0.47
7,507.00	90.54	87.90	5,998.56	592.51	664.87	670.11	0.49	0.36	-0.32
7,602.00	90.50	88.12	5,997.69	595.81	759.80	765.08	0.24	-0.04	0.23
7,697.00	89.84	88.52	5,997.41	598.60	854.76	860.06	0.81	-0.69	0.42
7,792.00	90.01	88.92	5,997.54	600.72	949.74	955.05	0.46	0.18	0.42
7,887.00	90.46	89.14	5,997.15	602.33	1,044.72	1,050.04	0.53	0.47	0.23
7,983.00	90.41	89.00	5,996.42	603.89	1,140.71	1,146.04	0.15	-0.05	-0.15
8,079.00	90.54	89.36	5,995.62	605.26	1,236.69	1,242.03	0.40	0.14	0.38

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0909CN
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 4-61-04-0909CN	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)	
8,174.00	90.41	89.67	5,994.83	606.06	1,331.69	1,337.03	0.35	-0.14	0.33	
8,270.00	90.85	90.37	5,993.78	606.03	1,427.68	1,433.02	0.86	0.46	0.73	
8,365.00	89.93	89.40	5,993.13	606.22	1,522.68	1,528.01	1.41	-0.97	-1.02	
8,460.00	89.84	89.89	5,993.32	606.81	1,617.67	1,623.01	0.52	-0.09	0.52	
8,555.00	89.84	89.84	5,993.59	607.03	1,712.67	1,718.01	0.05	0.00	-0.05	
8,649.00	89.62	89.14	5,994.03	607.87	1,806.67	1,812.01	0.78	-0.23	-0.74	
8,744.00	88.95	89.62	5,995.22	608.90	1,901.65	1,907.00	0.87	-0.71	0.51	
8,839.00	89.75	89.71	5,996.29	609.45	1,996.65	2,001.99	0.85	0.84	0.09	
8,933.00	89.26	90.11	5,997.11	609.60	2,090.64	2,095.99	0.67	-0.52	0.43	
9,028.00	90.23	89.40	5,997.53	610.01	2,185.64	2,190.98	1.27	1.02	-0.75	
9,123.00	89.97	90.11	5,997.36	610.41	2,280.64	2,285.98	0.80	-0.27	0.75	
9,218.00	89.35	89.97	5,997.93	610.35	2,375.63	2,380.97	0.67	-0.65	-0.15	
9,313.00	91.07	89.58	5,997.58	610.72	2,470.63	2,475.97	1.86	1.81	-0.41	
9,407.00	91.03	88.96	5,995.86	611.92	2,564.61	2,569.95	0.66	-0.04	-0.66	
9,502.00	90.68	88.17	5,994.44	614.30	2,659.56	2,664.93	0.91	-0.37	-0.83	
9,597.00	90.59	88.12	5,993.39	617.37	2,754.51	2,759.89	0.11	-0.09	-0.05	
9,692.00	90.72	88.12	5,992.30	620.49	2,849.45	2,854.86	0.14	0.14	0.00	
9,787.00	90.01	87.55	5,991.69	624.08	2,944.38	2,949.82	0.96	-0.75	-0.60	
9,882.00	90.94	87.68	5,990.91	628.03	3,039.29	3,044.76	0.99	0.98	0.14	
9,977.00	90.46	90.02	5,989.75	629.94	3,134.26	3,139.74	2.51	-0.51	2.46	
10,073.00	90.99	91.82	5,988.53	628.39	3,230.24	3,235.70	1.95	0.55	1.88	
10,167.00	90.54	90.99	5,987.28	626.09	3,324.20	3,329.64	1.00	-0.48	-0.88	
10,262.00	90.01	90.90	5,986.82	624.52	3,419.18	3,424.61	0.57	-0.56	-0.09	
10,357.00	89.22	91.74	5,987.46	622.34	3,514.16	3,519.56	1.21	-0.83	0.88	
10,452.00	89.04	90.46	5,988.90	620.51	3,609.13	3,614.51	1.36	-0.19	-1.35	
10,547.00	88.82	88.39	5,990.68	621.46	3,704.10	3,709.48	2.19	-0.23	-2.18	
10,641.00	90.54	88.65	5,991.20	623.89	3,798.06	3,803.46	1.85	1.83	0.28	
10,736.00	90.46	87.77	5,990.37	626.86	3,893.01	3,898.44	0.93	-0.08	-0.93	
10,832.00	90.28	87.81	5,989.75	630.56	3,988.94	3,994.39	0.19	-0.19	0.04	
10,926.00	89.88	88.26	5,989.62	633.78	4,082.88	4,088.36	0.64	-0.43	0.48	
11,021.00	90.63	90.46	5,989.20	634.85	4,177.87	4,183.35	2.45	0.79	2.32	
11,116.00	90.99	89.80	5,987.85	634.63	4,272.86	4,278.34	0.79	0.38	-0.69	
11,211.00	91.07	90.37	5,986.15	634.49	4,367.84	4,373.32	0.61	0.08	0.60	
11,307.00	90.90	89.97	5,984.50	634.20	4,463.83	4,469.30	0.45	-0.18	-0.42	
11,399.00	91.12	89.18	5,982.87	634.89	4,555.81	4,561.28	0.89	0.24	-0.86	
11,491.00	91.07	89.71	5,981.12	635.78	4,647.79	4,653.26	0.58	-0.05	0.58	
11,583.00	88.82	90.33	5,981.20	635.75	4,739.78	4,745.25	2.54	-2.45	0.67	
11,675.00	88.29	90.59	5,983.52	635.01	4,831.75	4,837.21	0.64	-0.58	0.28	
11,763.27	89.66	90.63	5,985.11	634.07	4,920.00	4,925.45	1.55	1.55	0.04	
Cross @ 11763.27' MD										
11,766.00	89.70	90.63	5,985.12	634.04	4,922.73	4,928.18	1.55	1.55	0.04	
11,858.00	90.19	90.15	5,985.21	633.41	5,014.73	5,020.16	0.75	0.53	-0.52	
11,950.00	89.66	89.49	5,985.33	633.70	5,106.72	5,112.16	0.92	-0.58	-0.72	
12,042.00	89.53	88.92	5,985.98	634.98	5,198.71	5,204.16	0.64	-0.14	-0.62	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0909CN
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 4-61-04-0909CN	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)
12,135.00	89.53	88.56	5,986.74	637.02	5,291.69	5,297.15	0.39	0.00	-0.39
12,227.00	89.17	87.99	5,987.79	639.79	5,383.64	5,389.12	0.73	-0.39	-0.62
12,319.00	91.30	88.74	5,987.41	642.42	5,475.59	5,481.10	2.45	2.32	0.82
12,411.00	91.38	88.78	5,985.26	644.41	5,567.55	5,573.06	0.10	0.09	0.04
12,502.00	91.52	88.74	5,982.95	646.38	5,658.50	5,664.03	0.16	0.15	-0.04
12,595.00	91.34	88.12	5,980.63	648.92	5,751.43	5,756.98	0.69	-0.19	-0.67
12,686.00	91.16	88.70	5,978.65	651.45	5,842.38	5,847.94	0.67	-0.20	0.64
12,782.00	91.65	87.42	5,976.29	654.70	5,938.29	5,943.88	1.43	0.51	-1.33
12,877.00	89.84	88.56	5,975.06	658.03	6,033.22	6,038.84	2.25	-1.91	1.20
12,972.00	89.53	89.40	5,975.58	659.72	6,128.20	6,133.83	0.94	-0.33	0.88
13,067.00	89.48	89.67	5,976.40	660.49	6,223.19	6,228.83	0.29	-0.05	0.28
13,162.00	89.79	88.43	5,977.01	662.06	6,318.18	6,323.82	1.35	0.33	-1.31
13,256.00	89.62	88.65	5,977.49	664.46	6,412.14	6,417.80	0.30	-0.18	0.23
13,351.00	89.26	88.96	5,978.42	666.44	6,507.12	6,512.79	0.50	-0.38	0.33
13,446.00	88.91	88.96	5,979.94	668.17	6,602.09	6,607.78	0.37	-0.37	0.00
13,541.00	90.81	90.02	5,980.17	669.01	6,697.08	6,702.77	2.29	2.00	1.12
13,635.00	90.59	90.33	5,979.02	668.72	6,791.07	6,796.76	0.40	-0.23	0.33
13,730.00	90.01	91.56	5,978.52	667.16	6,886.06	6,891.72	1.43	-0.61	1.29
13,825.00	91.43	90.72	5,977.33	665.27	6,981.03	6,986.67	1.74	1.49	-0.88
13,920.00	91.69	90.55	5,974.74	664.21	7,075.99	7,081.62	0.33	0.27	-0.18
14,014.00	91.87	92.66	5,971.82	661.58	7,169.90	7,175.50	2.25	0.19	2.24
14,110.00	91.25	91.12	5,969.21	658.42	7,265.81	7,271.38	1.73	-0.65	-1.60
14,204.00	91.21	91.21	5,967.19	656.51	7,359.77	7,365.32	0.10	-0.04	0.10
14,299.00	91.43	90.24	5,965.00	655.31	7,454.73	7,460.27	1.05	0.23	-1.02
14,394.00	90.99	91.16	5,963.00	654.15	7,549.70	7,555.23	1.07	-0.46	0.97
14,489.00	90.15	90.50	5,962.05	652.77	7,644.69	7,650.19	1.12	-0.88	-0.69
14,584.00	89.79	91.16	5,962.10	651.39	7,739.68	7,745.17	0.79	-0.38	0.69
14,678.00	90.15	91.16	5,962.15	649.49	7,833.66	7,839.13	0.38	0.38	0.00
14,774.00	90.15	90.11	5,961.90	648.43	7,929.65	7,935.11	1.09	0.00	-1.09
14,868.00	90.01	90.15	5,961.77	648.21	8,023.65	8,029.10	0.15	-0.15	0.04
14,963.00	89.48	89.67	5,962.19	648.36	8,118.65	8,124.10	0.75	-0.56	-0.51
15,058.00	89.31	89.40	5,963.19	649.13	8,213.64	8,219.09	0.34	-0.18	-0.28
15,153.00	90.90	88.34	5,963.02	651.01	8,308.62	8,314.08	2.01	1.67	-1.12
15,248.00	90.59	87.46	5,961.79	654.49	8,403.54	8,409.04	0.98	-0.33	-0.93
15,344.00	91.83	89.27	5,959.76	657.23	8,499.48	8,504.99	2.29	1.29	1.89
15,439.00	91.96	88.03	5,956.62	659.46	8,594.40	8,599.93	1.31	0.14	-1.31
15,534.00	91.96	87.59	5,953.37	663.09	8,689.27	8,694.83	0.46	0.00	-0.46
15,629.00	91.78	88.26	5,950.27	666.53	8,784.16	8,789.74	0.73	-0.19	0.71
15,724.00	91.87	88.74	5,947.24	669.01	8,879.08	8,884.68	0.51	0.09	0.51
15,819.00	92.62	88.48	5,943.52	671.32	8,973.98	8,979.60	0.84	0.79	-0.27
15,914.00	90.81	90.15	5,940.68	672.45	9,068.92	9,074.54	2.59	-1.91	1.76
16,009.00	90.77	89.97	5,939.37	672.35	9,163.91	9,169.53	0.19	-0.04	-0.19
16,104.00	90.81	89.89	5,938.06	672.47	9,258.90	9,264.52	0.09	0.04	-0.08

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-0909CN
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 4-61-04-0909CN	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)	
16,199.00	89.79	90.06	5,937.56	672.51	9,353.90	9,359.51	1.09	-1.07	0.18	
16,294.00	88.82	88.92	5,938.71	673.36	9,448.88	9,454.50	1.58	-1.02	-1.20	
16,389.00	88.64	89.05	5,940.82	675.04	9,543.85	9,549.48	0.23	-0.19	0.14	
16,484.00	88.25	89.44	5,943.40	676.29	9,638.80	9,644.44	0.58	-0.41	0.41	
16,579.00	88.29	91.69	5,946.26	675.35	9,733.75	9,739.37	2.37	0.04	2.37	
16,674.00	88.60	90.28	5,948.84	673.72	9,828.70	9,834.30	1.52	0.33	-1.48	
16,769.00	87.67	90.94	5,951.93	672.71	9,923.64	9,929.23	1.20	-0.98	0.69	
16,796.00	87.98	89.71	5,952.96	672.56	9,950.62	9,956.21	4.69	1.15	-4.56	
Last MWD Survey @ 16796' MD										
16,864.00	87.98	89.71	5,955.36	672.90	10,018.58	10,024.17	0.00	0.00	0.00	
Projection to TD @ 16864' MD 816.4' FNL/ 126' 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 @ 5908.7	0.00	0.00	5,729.72	568.66	-823.43	1,372,007.52	3,354,574.81	40.347580	-104.227829	
- actual wellpath hits target center										
- Point										
70° Inclination @ 6291.3	0.00	0.00	5,981.11	573.99	-547.06	1,372,016.82	3,354,851.08	40.347595	-104.226837	
- actual wellpath hits target center										
- Point										
Cross @ 11763.27' MD	0.00	0.00	5,985.11	634.07	4,920.00	1,372,155.51	3,360,316.70	40.347758	-104.207222	
- actual wellpath hits target center										
- Point										
Cross @ 6647.81' MD	0.00	0.00	6,007.16	575.48	-194.00	1,372,023.39	3,355,204.08	40.347599	-104.225570	
- 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	812.24	20.84	-39.27	Tie into Surface Surveys	
884.00	881.97	24.51	-44.26	First MWD Survey @ 884' MD	
5,908.74	5,729.72	568.66	-823.43	30° Inclination @ 5908.74' MD	
6,291.31	5,981.11	573.99	-547.06	70° Inclination @ 6291.31' MD	
6,647.81	6,007.16	575.48	-194.00	Cross @ 6647.81' MD	
11,763.27	5,985.11	634.07	4,920.00	Cross @ 11763.27' MD	
16,796.00	5,952.96	672.56	9,950.62	Last MWD Survey @ 16796' MD	
16,864.00	5,955.36	672.90	10,018.58	Projection to TD @ 16864' MD 816.4' FNL/ 126' FEL	

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