



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

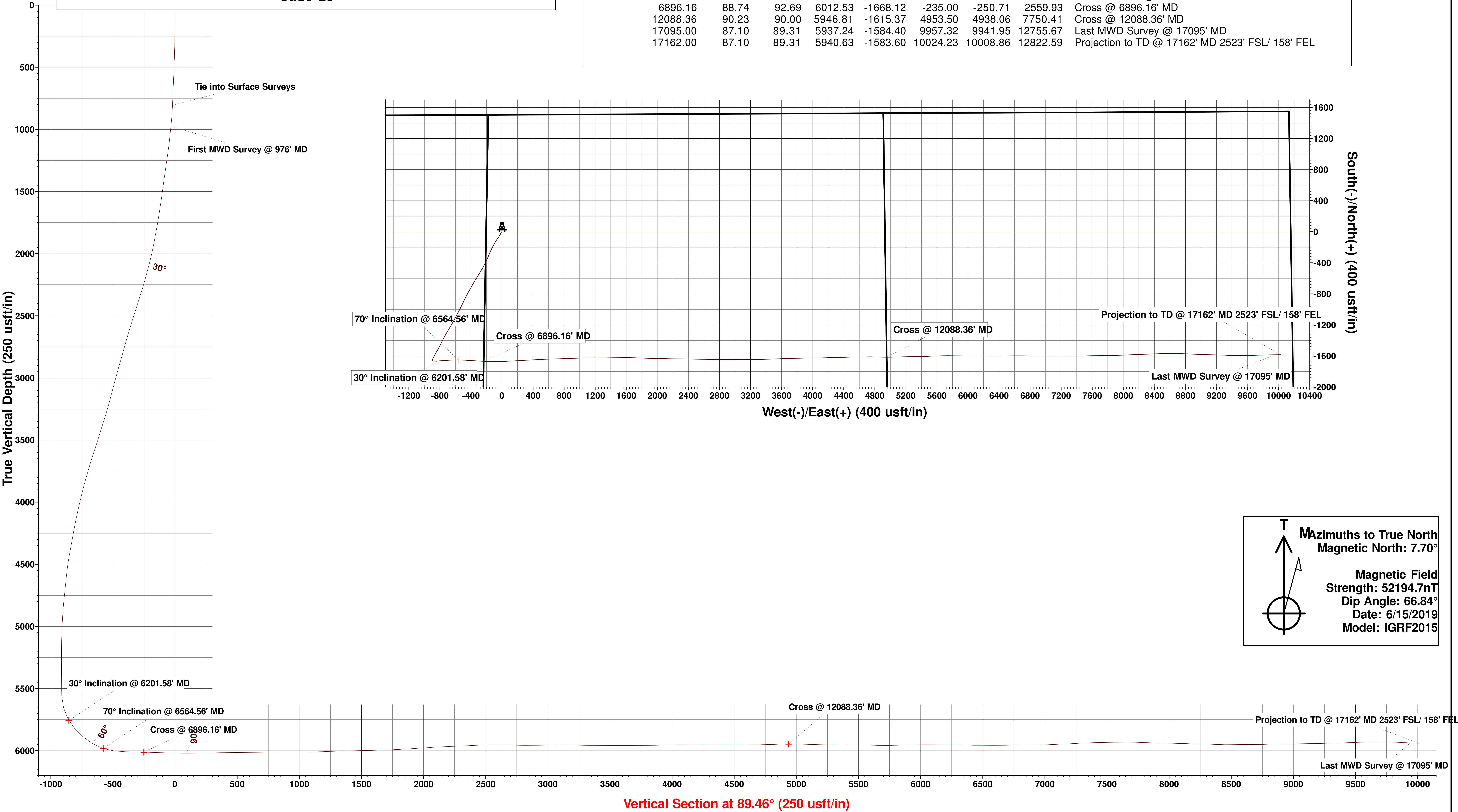
WELL DETAILS: RSU Anschutz Fed 4-61-04-4040C

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 4-61-04-4040C
Wellbore: Wellbore #1
Design: Wellbore #1 (RSU Anschutz Fed 4-61-04-4040C/Wellbore #1)
Cade 23

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
807.00	5.83	205.30	805.57	-30.37	-20.33	-20.62	39.09	Tie into Surface Surveys	
976.00	10.65	212.66	972.78	-51.29	-32.43	-32.92	63.31	First MWD Survey @ 976' MD	
6201.58	30.00	85.15	5756.92	-1665.24	-838.53	-854.19	1956.83	30° Inclination @ 6201.58' MD	
6564.56	70.00	90.91	5982.57	-1650.74	-563.37	-578.91	2231.08	70° Inclination @ 6564.56' MD	
6896.16	88.74	92.69	6012.53	-1668.12	-235.00	-250.71	2559.93	Cross @ 6896.16' MD	
12088.36	90.23	90.00	5946.81	-1615.37	4953.50	4938.06	7750.41	Cross @ 12088.36' MD	
17095.00	87.10	89.31	5937.24	-1584.40	9957.32	9941.95	12755.67	Last MWD Survey @ 17095' MD	
17162.00	87.10	89.31	5940.63	-1583.60	10024.23	10008.86	12822.59	Projection to TD @ 17162' MD 2523' FSL/ 158' FEL	



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Azimuths to True North

Magnetic North: 7.70°

Magnetic Field

Strength: 52194.7nT

Dip Angle: 66.84°

Date: 6/15/2019

Model: IGRF2015

HighPoint Resources

Weld County, CO (NAD83)

Sec 04-T04N-R61W

RSU Anschutz Fed 4-61-04-4040C

Wellbore #1

Design: Wellbore #1

Standard Survey Report

26 August, 2019

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-4040C
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 4-61-04-4040C	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 4-61-04-4040C				
Well Position	+N/-S	0.00 usft	Northing:	1,371,390.64 usft	Latitude:	40.345854
	+E/-W	0.00 usft	Easting:	3,355,406.08 usft	Longitude:	-104.224878
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	52,194.69119649

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	89.46	

Survey Program	Date	8/26/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
149.00	17,162.00	Atlas MWD Surface 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	0.71	320.58	149.00	0.71	-0.59	-0.58	0.48	0.48	0.00
241.00	0.80	253.90	240.99	0.98	-1.57	-1.56	0.91	0.10	-72.48
333.00	1.72	226.27	332.97	-0.16	-3.18	-3.18	1.17	1.00	-30.03
425.00	2.87	221.43	424.89	-2.84	-5.70	-5.73	1.27	1.25	-5.26
517.00	4.15	209.57	516.72	-7.46	-8.87	-8.94	1.59	1.39	-12.89
608.00	4.68	207.19	607.45	-13.63	-12.19	-12.32	0.62	0.58	-2.62
700.00	5.48	205.87	699.09	-20.92	-15.82	-16.02	0.88	0.87	-1.43
792.00	5.70	205.25	790.65	-29.00	-19.69	-19.96	0.25	0.24	-0.67
807.00	5.83	205.30	805.57	-30.37	-20.33	-20.62	0.87	0.87	0.33
Tie into Surface Surveys									

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-4040C
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 4-61-04-4040C	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)
976.00	10.65	212.66	972.78	-51.29	-32.43	-32.92	2.91	2.85	4.36
First MWD Survey @ 976' MD									
1,068.00	10.78	213.41	1,063.18	-65.62	-41.76	-42.38	0.21	0.14	0.82
1,160.00	13.08	214.95	1,153.19	-81.34	-52.46	-53.23	2.52	2.50	1.67
1,252.00	13.21	216.09	1,242.78	-98.37	-64.62	-65.54	0.32	0.14	1.24
1,344.00	15.51	212.00	1,331.90	-117.30	-77.33	-78.43	2.73	2.50	-4.45
1,436.00	15.02	210.89	1,420.65	-137.96	-89.97	-91.27	0.62	-0.53	-1.21
1,527.00	15.73	206.75	1,508.40	-159.10	-101.58	-103.07	1.44	0.78	-4.55
1,623.00	17.28	209.53	1,600.44	-183.12	-114.46	-116.18	1.81	1.61	2.90
1,718.00	19.22	206.18	1,690.66	-209.44	-128.32	-130.28	2.32	2.04	-3.53
1,813.00	22.09	205.47	1,779.54	-239.60	-142.90	-145.15	3.03	3.02	-0.75
1,908.00	24.97	203.05	1,866.64	-274.19	-158.44	-161.01	3.20	3.03	-2.55
2,003.00	26.96	202.52	1,952.04	-312.54	-174.54	-177.47	2.11	2.09	-0.56
2,099.00	29.43	204.73	2,036.65	-354.07	-192.74	-196.07	2.79	2.57	2.30
2,194.00	30.71	207.19	2,118.87	-396.85	-213.59	-217.32	1.87	1.35	2.59
2,289.00	30.53	205.61	2,200.62	-440.18	-235.11	-239.24	0.87	-0.19	-1.66
2,385.00	30.84	211.34	2,283.20	-483.20	-258.45	-262.99	3.06	0.32	5.97
2,479.00	31.07	211.64	2,363.81	-524.43	-283.71	-288.64	0.29	0.24	0.32
2,574.00	30.98	211.56	2,445.22	-566.13	-309.36	-314.68	0.10	-0.09	-0.08
2,669.00	30.76	211.60	2,526.76	-607.66	-334.89	-340.60	0.23	-0.23	0.04
2,764.00	30.49	210.50	2,608.51	-649.12	-359.85	-365.95	0.65	-0.28	-1.16
2,858.00	29.65	209.70	2,689.86	-689.86	-383.47	-389.96	0.99	-0.89	-0.85
2,953.00	28.72	209.40	2,772.80	-730.16	-406.32	-413.19	0.99	-0.98	-0.32
3,047.00	30.58	208.69	2,854.49	-770.81	-428.89	-436.14	2.01	1.98	-0.76
3,142.00	30.80	208.21	2,936.18	-813.45	-451.99	-459.63	0.35	0.23	-0.51
3,237.00	30.53	206.31	3,017.90	-856.51	-474.18	-482.23	1.06	-0.28	-2.00
3,331.00	30.53	205.92	3,098.87	-899.39	-495.20	-503.65	0.21	0.00	-0.41
3,426.00	31.37	204.90	3,180.34	-943.52	-516.16	-525.03	1.04	0.88	-1.07
3,521.00	32.21	207.63	3,261.09	-988.38	-538.31	-547.60	1.75	0.88	2.87
3,616.00	33.32	208.21	3,340.98	-1,033.81	-562.39	-572.11	1.21	1.17	0.61
3,710.00	33.58	207.55	3,419.41	-1,079.60	-586.62	-596.77	0.48	0.28	-0.70
3,805.00	33.50	207.41	3,498.59	-1,126.17	-610.84	-621.42	0.12	-0.08	-0.15
3,900.00	33.14	210.45	3,577.98	-1,171.84	-636.07	-647.08	1.80	-0.38	3.20
3,995.00	30.62	210.59	3,658.64	-1,215.05	-661.54	-672.97	2.65	-2.65	0.15
4,090.00	29.43	210.54	3,740.89	-1,255.98	-685.72	-697.52	1.25	-1.25	-0.05
4,185.00	28.99	210.45	3,823.81	-1,295.93	-709.24	-721.43	0.47	-0.46	-0.09
4,280.00	27.00	209.09	3,907.69	-1,334.63	-731.40	-743.94	2.20	-2.09	-1.43
4,375.00	26.60	207.55	3,992.49	-1,372.33	-751.72	-764.62	0.84	-0.42	-1.62
4,469.00	25.85	206.84	4,076.81	-1,409.27	-770.71	-783.95	0.86	-0.80	-0.76
4,565.00	23.51	206.27	4,164.04	-1,445.12	-788.63	-802.22	2.45	-2.44	-0.59
4,660.00	21.48	207.41	4,251.80	-1,477.56	-805.03	-818.92	2.19	-2.14	1.20
4,756.00	20.33	208.78	4,341.48	-1,507.78	-821.15	-835.32	1.30	-1.20	1.43
4,851.00	18.69	211.20	4,431.03	-1,535.27	-836.98	-851.41	1.92	-1.73	2.55

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-4040C
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 4-61-04-4040C	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)
4,946.00	15.91	208.29	4,521.72	-1,559.76	-851.04	-865.70	3.06	-2.93	-3.06
5,042.00	13.35	203.18	4,614.61	-1,581.54	-861.64	-876.51	2.98	-2.67	-5.32
5,137.00	11.67	210.85	4,707.35	-1,599.87	-870.89	-885.92	2.48	-1.77	8.07
5,232.00	10.87	210.94	4,800.52	-1,615.80	-880.42	-895.61	0.84	-0.84	0.09
5,328.00	8.31	206.09	4,895.17	-1,629.80	-888.12	-903.45	2.79	-2.67	-5.05
5,423.00	5.35	206.00	4,989.49	-1,639.95	-893.09	-908.50	3.12	-3.12	-0.09
5,519.00	4.68	201.68	5,085.12	-1,647.61	-896.49	-911.98	0.80	-0.70	-4.50
5,614.00	2.56	193.40	5,179.93	-1,653.27	-898.42	-913.96	2.29	-2.23	-8.72
5,709.00	2.65	175.73	5,274.83	-1,657.53	-898.75	-914.33	0.85	0.09	-18.60
5,804.00	0.84	162.24	5,369.78	-1,660.38	-898.37	-913.98	1.94	-1.91	-14.20
5,899.00	0.71	141.80	5,464.77	-1,661.51	-897.79	-913.41	0.32	-0.14	-21.52
5,994.00	1.81	122.80	5,559.75	-1,662.78	-896.17	-911.80	1.22	1.16	-20.00
6,090.00	16.17	99.23	5,654.33	-1,665.76	-881.62	-897.28	15.13	14.96	-24.55
6,184.00	27.49	84.99	5,741.51	-1,665.97	-846.95	-862.62	13.21	12.04	-15.15
6,201.58	30.00	85.15	5,756.92	-1,665.24	-838.53	-854.19	14.28	14.27	0.93
30° Inclination @ 6201.58' MD									
6,279.00	41.05	85.66	5,819.83	-1,661.67	-793.76	-809.39	14.28	14.27	0.65
6,374.00	48.96	86.18	5,886.95	-1,656.92	-726.80	-742.38	8.34	8.33	0.55
6,468.00	59.79	86.85	5,941.62	-1,652.31	-650.65	-666.19	11.54	11.52	0.71
6,564.00	69.91	90.90	5,982.38	-1,650.74	-563.90	-579.43	11.21	10.54	4.22
6,564.56	70.00	90.91	5,982.57	-1,650.74	-563.37	-578.91	16.15	16.01	2.22
70° Inclination @ 6564.56' MD									
6,655.00	84.49	92.79	6,002.49	-1,653.63	-475.45	-491.02	16.15	16.02	2.08
6,747.00	88.11	94.20	6,008.43	-1,659.23	-383.83	-399.45	4.22	3.93	1.53
6,842.00	88.51	93.19	6,011.23	-1,665.34	-289.07	-304.75	1.14	0.42	-1.06
6,896.16	88.74	92.69	6,012.53	-1,668.12	-235.00	-250.71	1.01	0.42	-0.92
Cross @ 6896.16' MD									
6,938.00	88.91	92.31	6,013.39	-1,669.95	-193.21	-208.94	1.01	0.42	-0.92
7,033.00	87.72	89.89	6,016.18	-1,671.77	-98.28	-114.03	2.84	-1.25	-2.55
7,127.00	88.82	88.30	6,019.02	-1,670.29	-4.33	-20.08	2.06	1.17	-1.69
7,222.00	88.91	87.20	6,020.90	-1,666.56	90.57	74.86	1.16	0.09	-1.16
7,254.00	90.81	87.02	6,020.98	-1,664.95	122.53	106.83	5.96	5.94	-0.56
7,318.00	90.90	86.58	6,020.03	-1,661.37	186.42	170.76	0.70	0.14	-0.69
7,413.00	90.99	86.58	6,018.46	-1,655.71	281.24	265.62	0.09	0.09	0.00
7,508.00	91.38	87.59	6,016.49	-1,650.88	376.10	360.52	1.14	0.41	1.06
7,603.00	90.41	86.58	6,015.01	-1,646.05	470.96	455.42	1.47	-1.02	-1.06
7,698.00	90.50	87.90	6,014.26	-1,641.47	565.84	550.35	1.39	0.09	1.39
7,793.00	90.59	88.52	6,013.35	-1,638.51	660.79	645.32	0.66	0.09	0.65
7,888.00	91.12	88.39	6,011.94	-1,635.94	755.75	740.30	0.57	0.56	-0.14
7,984.00	89.79	87.59	6,011.17	-1,632.58	851.68	836.26	1.62	-1.39	-0.83
8,079.00	89.62	87.81	6,011.66	-1,628.76	946.60	931.21	0.29	-0.18	0.23
8,175.00	90.01	88.78	6,011.97	-1,625.91	1,042.56	1,027.19	1.09	0.41	1.01
8,271.00	92.18	90.02	6,010.14	-1,624.90	1,138.53	1,123.16	2.60	2.26	1.29
8,366.00	92.00	90.02	6,006.67	-1,624.94	1,233.47	1,218.10	0.19	-0.19	0.00

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-4040C
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 4-61-04-4040C	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)
8,461.00	91.52	88.92	6,003.75	-1,624.06	1,328.42	1,313.05	1.26	-0.51	-1.16
8,556.00	91.78	90.02	6,001.02	-1,623.18	1,423.37	1,408.01	1.19	0.27	1.16
8,650.00	90.59	88.70	5,999.08	-1,622.13	1,517.34	1,501.99	1.89	-1.27	-1.40
8,745.00	91.38	90.68	5,997.44	-1,621.62	1,612.32	1,596.97	2.24	0.83	2.08
8,841.00	91.60	91.30	5,994.95	-1,623.27	1,708.27	1,692.90	0.69	0.23	0.65
8,934.00	93.11	92.09	5,991.12	-1,626.02	1,801.15	1,785.75	1.83	1.62	0.85
9,029.00	93.42	92.71	5,985.71	-1,629.99	1,895.91	1,880.47	0.73	0.33	0.65
9,124.00	93.59	91.12	5,979.91	-1,633.16	1,990.68	1,975.20	1.68	0.18	-1.67
9,219.00	94.21	90.81	5,973.44	-1,634.76	2,085.44	2,069.94	0.73	0.65	-0.33
9,250.00	93.42	90.99	5,971.38	-1,635.24	2,116.37	2,100.87	2.61	-2.55	0.58
9,314.00	92.89	90.99	5,967.86	-1,636.35	2,180.26	2,164.75	0.83	-0.83	0.00
9,408.00	91.78	90.11	5,964.03	-1,637.25	2,274.18	2,258.65	1.51	-1.18	-0.94
9,503.00	93.02	90.90	5,960.05	-1,638.09	2,369.09	2,353.55	1.55	1.31	0.83
9,598.00	91.60	91.30	5,956.22	-1,639.91	2,463.99	2,448.43	1.55	-1.49	0.42
9,693.00	90.10	90.81	5,954.81	-1,641.66	2,558.96	2,543.38	1.66	-1.58	-0.52
9,788.00	89.88	91.21	5,954.83	-1,643.33	2,653.95	2,638.34	0.48	-0.23	0.42
9,883.00	88.60	91.21	5,956.09	-1,645.34	2,748.92	2,733.29	1.35	-1.35	0.00
9,979.00	90.10	89.71	5,957.18	-1,646.11	2,844.90	2,829.26	2.21	1.56	-1.56
10,074.00	90.50	89.00	5,956.68	-1,645.04	2,939.89	2,924.26	0.86	0.42	-0.75
10,168.00	91.21	89.09	5,955.28	-1,643.47	3,033.87	3,018.25	0.76	0.76	0.10
10,263.00	90.10	90.59	5,954.19	-1,643.21	3,128.86	3,113.23	1.96	-1.17	1.58
10,358.00	88.38	90.81	5,955.45	-1,644.37	3,223.84	3,208.20	1.83	-1.81	0.23
10,453.00	89.22	88.78	5,957.44	-1,644.03	3,318.81	3,303.17	2.31	0.88	-2.14
10,548.00	90.50	87.59	5,957.67	-1,641.02	3,413.76	3,398.14	1.84	1.35	-1.25
10,643.00	89.40	88.92	5,957.76	-1,638.13	3,508.71	3,493.12	1.82	-1.16	1.40
10,737.00	90.50	87.90	5,957.84	-1,635.52	3,602.67	3,587.10	1.60	1.17	-1.09
10,833.00	89.48	87.68	5,957.86	-1,631.82	3,698.60	3,683.06	1.09	-1.06	-0.23
10,928.00	90.90	89.09	5,957.54	-1,629.14	3,793.56	3,778.04	2.11	1.49	1.48
11,022.00	90.19	88.39	5,956.65	-1,627.07	3,887.53	3,872.02	1.06	-0.76	-0.74
11,117.00	92.18	90.81	5,954.68	-1,626.41	3,982.50	3,966.99	3.30	2.09	2.55
11,213.00	90.19	88.21	5,952.70	-1,625.59	4,078.46	4,062.96	3.41	-2.07	-2.71
11,308.00	89.62	88.61	5,952.85	-1,622.95	4,173.42	4,157.94	0.73	-0.60	0.42
11,400.00	89.88	88.08	5,953.26	-1,620.29	4,265.38	4,249.92	0.64	0.28	-0.58
11,492.00	90.28	88.70	5,953.13	-1,617.71	4,357.34	4,341.91	0.80	0.43	0.67
11,584.00	89.48	87.68	5,953.32	-1,614.80	4,449.30	4,433.88	1.41	-0.87	-1.11
11,676.00	90.19	89.89	5,953.58	-1,612.85	4,541.27	4,525.87	2.52	0.77	2.40
11,768.00	90.41	89.31	5,953.10	-1,612.21	4,633.27	4,617.87	0.67	0.24	-0.63
11,859.00	90.50	89.80	5,952.38	-1,611.50	4,724.26	4,708.86	0.55	0.10	0.54
11,951.00	92.18	91.60	5,950.23	-1,612.63	4,816.22	4,800.81	2.68	1.83	1.96
12,044.00	91.30	91.21	5,947.40	-1,614.91	4,909.15	4,893.71	1.03	-0.95	-0.42
12,088.36	90.23	90.00	5,946.81	-1,615.37	4,953.50	4,938.06	3.63	-2.40	-2.73
Cross @ 12088.36' MD									
12,136.00	89.09	88.70	5,947.09	-1,614.83	5,001.14	4,985.69	3.63	-2.40	-2.73

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-4040C
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 4-61-04-4040C	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)
12,228.00	88.69	88.52	5,948.87	-1,612.60	5,093.09	5,077.67	0.48	-0.43	-0.20
12,320.00	88.29	88.92	5,951.30	-1,610.55	5,185.04	5,169.63	0.61	-0.43	0.43
12,412.00	89.62	89.09	5,952.98	-1,608.95	5,277.00	5,261.61	1.46	1.45	0.18
12,504.00	89.40	88.70	5,953.76	-1,607.18	5,368.98	5,353.60	0.49	-0.24	-0.42
12,596.00	89.22	87.99	5,954.87	-1,604.52	5,460.94	5,445.57	0.80	-0.20	-0.77
12,687.00	90.01	88.30	5,955.48	-1,601.57	5,551.89	5,536.55	0.93	0.87	0.34
12,783.00	88.20	87.99	5,956.98	-1,598.47	5,647.82	5,632.51	1.91	-1.89	-0.32
12,878.00	90.81	90.81	5,957.80	-1,597.47	5,742.79	5,727.48	4.04	2.75	2.97
12,973.00	90.99	90.11	5,956.31	-1,598.23	5,837.78	5,822.46	0.76	0.19	-0.74
13,068.00	91.78	91.52	5,954.01	-1,599.59	5,932.74	5,917.40	1.70	0.83	1.48
13,163.00	90.10	88.92	5,952.46	-1,599.95	6,027.71	6,012.37	3.26	-1.77	-2.74
13,257.00	89.88	90.59	5,952.47	-1,599.55	6,121.71	6,106.36	1.79	-0.23	1.78
13,353.00	88.82	90.11	5,953.56	-1,600.13	6,217.70	6,202.34	1.21	-1.10	-0.50
13,448.00	89.79	91.12	5,954.71	-1,601.15	6,312.68	6,297.31	1.47	1.02	1.06
13,542.00	88.51	88.21	5,956.11	-1,600.60	6,406.66	6,391.29	3.38	-1.36	-3.10
13,636.00	90.59	90.02	5,956.85	-1,599.15	6,500.64	6,485.28	2.93	2.21	1.93
13,731.00	89.22	89.49	5,957.00	-1,598.75	6,595.63	6,580.27	1.55	-1.44	-0.56
13,826.00	90.90	90.19	5,956.90	-1,598.48	6,690.63	6,675.27	1.92	1.77	0.74
13,921.00	90.72	90.99	5,955.56	-1,599.46	6,785.61	6,770.24	0.86	-0.19	0.84
14,016.00	89.79	90.41	5,955.14	-1,600.62	6,880.60	6,865.21	1.15	-0.98	-0.61
14,111.00	91.52	90.19	5,954.05	-1,601.12	6,975.59	6,960.19	1.84	1.82	-0.23
14,206.00	92.18	89.80	5,950.99	-1,601.11	7,070.54	7,055.14	0.81	0.69	-0.41
14,300.00	92.71	90.02	5,946.98	-1,600.96	7,164.46	7,149.05	0.61	0.56	0.23
14,395.00	93.11	90.11	5,942.15	-1,601.07	7,259.33	7,243.92	0.43	0.42	0.09
14,490.00	92.62	89.89	5,937.40	-1,601.07	7,354.22	7,338.80	0.57	-0.52	-0.23
14,585.00	91.12	89.18	5,934.30	-1,600.30	7,449.16	7,433.75	1.75	-1.58	-0.75
14,680.00	90.59	88.61	5,932.89	-1,598.47	7,544.13	7,528.73	0.82	-0.56	-0.60
14,775.00	90.81	88.70	5,931.73	-1,596.24	7,639.10	7,623.71	0.25	0.23	0.09
14,869.00	88.60	89.18	5,932.21	-1,594.50	7,733.07	7,717.70	2.41	-2.35	0.51
14,964.00	87.98	88.61	5,935.04	-1,592.67	7,828.01	7,812.65	0.89	-0.65	-0.60
15,060.00	88.38	89.31	5,938.09	-1,590.93	7,923.95	7,908.60	0.84	0.42	0.73
15,155.00	89.09	87.20	5,940.19	-1,588.03	8,018.87	8,003.55	2.34	0.75	-2.22
15,249.00	88.69	87.81	5,942.01	-1,583.94	8,112.77	8,097.48	0.78	-0.43	0.65
15,345.00	87.58	87.02	5,945.14	-1,579.62	8,208.62	8,193.36	1.42	-1.16	-0.82
15,440.00	89.40	88.78	5,947.64	-1,576.14	8,303.51	8,288.29	2.66	1.92	1.85
15,535.00	87.72	87.90	5,950.03	-1,573.39	8,398.44	8,383.24	2.00	-1.77	-0.93
15,630.00	90.01	87.81	5,951.91	-1,569.83	8,493.35	8,478.17	2.41	2.41	-0.09
15,725.00	90.90	90.28	5,951.15	-1,568.25	8,588.32	8,573.16	2.76	0.94	2.60
15,820.00	89.79	90.28	5,950.58	-1,568.71	8,683.32	8,668.15	1.17	-1.17	0.00
15,915.00	91.69	92.49	5,949.36	-1,571.01	8,778.27	8,763.07	3.07	2.00	2.33
16,010.00	91.30	92.62	5,946.88	-1,575.24	8,873.14	8,857.90	0.43	-0.41	0.14
16,105.00	90.90	92.40	5,945.05	-1,579.40	8,968.03	8,952.75	0.48	-0.42	-0.23
16,200.00	90.28	91.38	5,944.07	-1,582.53	9,062.98	9,047.66	1.26	-0.65	-1.07
16,295.00	90.90	91.78	5,943.10	-1,585.15	9,157.93	9,142.59	0.78	0.65	0.42

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-4040C
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 4-61-04-4040C	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)	
16,390.00	91.21	91.38	5,941.35	-1,587.77	9,252.88	9,237.51	0.53	0.33	-0.42	
16,485.00	92.18	92.88	5,938.54	-1,591.30	9,347.77	9,332.36	1.88	1.02	1.58	
16,581.00	91.12	90.50	5,935.77	-1,594.13	9,443.68	9,428.24	2.71	-1.10	-2.48	
16,675.00	92.09	89.71	5,933.14	-1,594.30	9,537.64	9,522.19	1.33	1.03	-0.84	
16,771.00	91.38	88.08	5,930.23	-1,592.45	9,633.58	9,618.14	1.85	-0.74	-1.70	
16,865.00	89.48	88.52	5,929.53	-1,589.66	9,727.53	9,712.11	2.07	-2.02	0.47	
16,961.00	87.98	88.92	5,931.66	-1,587.52	9,823.48	9,808.08	1.62	-1.56	0.42	
17,056.00	87.50	88.30	5,935.40	-1,585.22	9,918.37	9,902.99	0.82	-0.51	-0.65	
17,095.00	87.10	89.31	5,937.24	-1,584.40	9,957.32	9,941.95	2.78	-1.03	2.59	
Last MWD Survey @ 17095' MD										
17,162.00	87.10	89.31	5,940.63	-1,583.60	10,024.23	10,008.86	0.00	0.00	0.00	
Projection to TD @ 17162' MD 2523' FSL/ 158' 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 @ 6201.5 - actual wellpath hits target center - Point	0.00	0.00	5,756.93	-1,665.24	-838.53	1,369,713.51	3,354,591.58	40.341283	-104.227886	
Cross @ 12088.36' MD - actual wellpath hits target center - Point	0.00	0.00	5,946.81	-1,615.37	4,953.50	1,369,846.66	3,360,382.29	40.341418	-104.207108	
70° Inclination @ 6564.5 - actual wellpath hits target center - Point	0.00	0.00	5,982.57	-1,650.74	-563.37	1,369,731.97	3,354,866.50	40.341323	-104.226899	
Cross @ 6896.16' MD - actual wellpath hits target center - Point	0.00	0.00	6,012.53	-1,668.12	-235.00	1,369,719.31	3,355,195.09	40.341275	-104.225721	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
807.00	805.57	-30.37	-20.33	Tie into Surface Surveys	
976.00	972.78	-51.29	-32.43	First MWD Survey @ 976' MD	
6,201.58	5,756.92	-1,665.24	-838.53	30° Inclination @ 6201.58' MD	
6,564.56	5,982.57	-1,650.74	-563.37	70° Inclination @ 6564.56' MD	
6,896.16	6,012.53	-1,668.12	-235.00	Cross @ 6896.16' MD	
12,088.36	5,946.81	-1,615.37	4,953.50	Cross @ 12088.36' MD	
17,095.00	5,937.24	-1,584.40	9,957.32	Last MWD Survey @ 17095' MD	
17,162.00	5,940.63	-1,583.60	10,024.23	Projection to TD @ 17162' MD 2523' FSL/ 158' FEL	

Checked By: _____	Approved By: _____	Date: _____
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