



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

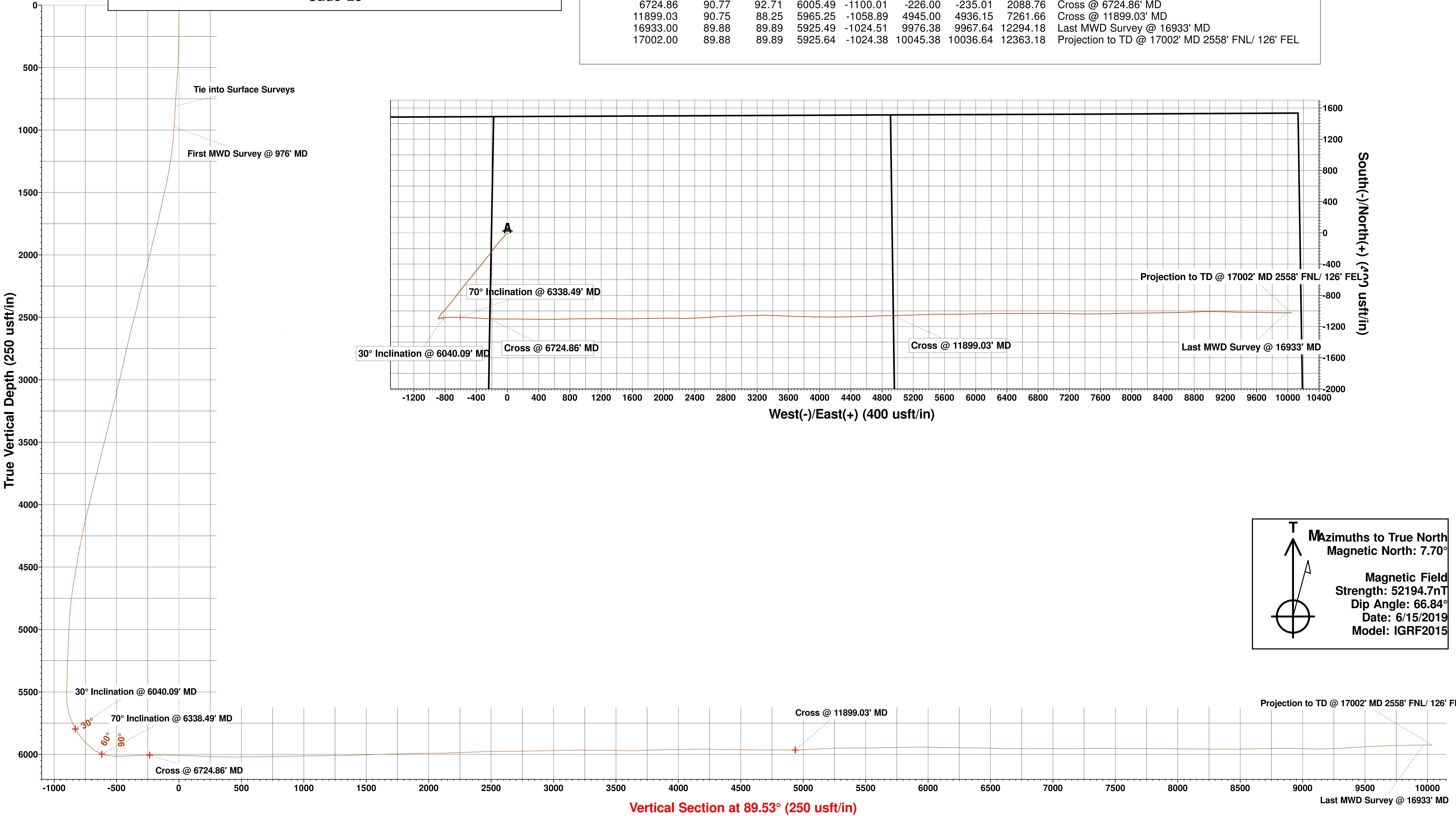
WELL DETAILS: RSU Anschutz Fed 4-61-04-2525C

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 4-61-04-2525C
Wellbore: Wellbore #1
Design: Wellbore #1 (RSU Anschutz Fed 4-61-04-2525C/Wellbore #1)
Cade 23

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
809.00	5.08	221.47	807.45	-28.15	-29.23	-29.46	41.21	Tie into Surface Surveys
976.00	5.30	215.87	973.77	-39.94	-38.65	-38.98	56.32	First MWD Survey @ 976' MD
6040.09	29.90	78.92	5796.78	-1087.50	-821.69	-830.58	1494.36	30° Inclination @ 6040.09' MD
6338.49	70.00	91.23	5998.65	-1082.99	-609.65	-618.51	1706.17	70° Inclination @ 6338.49' MD
6724.86	90.77	92.71	6005.49	-1100.01	-226.00	-235.01	2088.76	Cross @ 6724.86' MD
11899.03	90.75	88.25	5965.25	-1058.89	4945.00	4936.15	7261.66	Cross @ 11899.03' MD
16933.00	89.88	89.89	5925.49	-1024.51	9976.38	9967.64	12294.18	Last MWD Survey @ 16933' MD
17002.00	89.88	89.89	5925.64	-1024.38	10045.38	10036.64	12363.18	Projection to TD @ 17002' MD 2558' FNL/ 126' FEL



HighPoint Resources

Weld County, CO (NAD83)

Sec 04-T04N-R61W

RSU Anschutz Fed 4-61-04-2525C

Wellbore #1

Design: Wellbore #1

Standard Survey Report

03 October, 2019

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-2525C
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 4-61-04-2525C	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 4-61-04-2525C					
Well Position	+N/-S	0.00 usft	Northing:	1,371,405.95 usft	Latitude:	40.345896
	+E/-W	0.00 usft	Easting:	3,355,406.42 usft	Longitude:	-104.224876
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	52,194.71227591

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	89.53	

Survey Program	Date	10/3/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
149.00	809.00	Surface Surveys (Wellbore #1)	MWD	MWD - Standard	
976.00	17,002.00	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	270.34	149.00	0.00	-0.81	-0.81	0.42	0.42	0.00	
241.00	0.80	218.83	240.99	-0.49	-1.71	-1.71	0.69	0.20	-55.99	
333.00	2.03	207.72	332.96	-2.44	-2.87	-2.89	1.36	1.34	-12.08	
425.00	3.31	222.00	424.86	-5.85	-5.40	-5.45	1.56	1.39	15.52	
517.00	4.95	227.38	516.62	-10.51	-10.10	-10.19	1.83	1.78	5.85	
608.00	5.21	226.71	607.26	-16.01	-16.00	-16.13	0.29	0.29	-0.74	
700.00	5.21	231.91	698.88	-21.45	-22.33	-22.50	0.51	0.00	5.65	
792.00	4.99	221.21	790.52	-27.03	-28.25	-28.47	1.06	-0.24	-11.63	
809.00	5.08	221.47	807.45	-28.15	-29.23	-29.46	0.55	0.53	1.53	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-2525C
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 4-61-04-2525C	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									
976.00	5.30	215.87	973.77	-39.94	-38.65	-38.98	0.33	0.13	-3.35
First MWD Survey @ 976' MD									
1,068.00	7.56	224.82	1,065.19	-47.68	-45.41	-45.80	2.68	2.46	9.73
1,160.00	9.72	223.19	1,156.14	-57.64	-54.99	-55.46	2.36	2.35	-1.77
1,252.00	12.68	221.25	1,246.38	-70.89	-66.97	-67.54	3.24	3.22	-2.11
1,344.00	15.64	220.72	1,335.57	-87.89	-81.72	-82.43	3.22	3.22	-0.58
1,436.00	18.47	220.24	1,423.52	-108.42	-99.22	-100.11	3.08	3.08	-0.52
1,527.00	19.31	218.08	1,509.62	-131.26	-117.82	-118.89	1.20	0.92	-2.37
1,622.00	19.71	219.31	1,599.16	-156.02	-137.65	-138.93	0.60	0.42	1.29
1,718.00	19.40	217.64	1,689.62	-181.17	-157.65	-159.13	0.67	-0.32	-1.74
1,813.00	21.43	218.65	1,778.65	-207.22	-178.12	-179.82	2.17	2.14	1.06
1,908.00	22.05	217.50	1,866.90	-234.93	-199.82	-201.74	0.79	0.65	-1.21
2,003.00	21.21	216.18	1,955.21	-262.94	-220.82	-222.97	1.02	-0.88	-1.39
2,099.00	21.74	219.05	2,044.54	-290.77	-242.27	-244.65	1.23	0.55	2.99
2,194.00	22.32	219.75	2,132.61	-318.30	-264.89	-267.49	0.67	0.61	0.74
2,289.00	21.61	218.87	2,220.71	-345.79	-287.40	-290.23	0.82	-0.75	-0.93
2,384.00	21.03	217.42	2,309.21	-372.95	-308.74	-311.79	0.82	-0.61	-1.53
2,479.00	20.15	217.06	2,398.14	-399.55	-328.96	-332.23	0.94	-0.93	-0.38
2,574.00	21.52	221.03	2,486.93	-425.75	-350.26	-353.74	2.07	1.44	4.18
2,669.00	21.56	220.59	2,575.30	-452.15	-373.06	-376.75	0.18	0.04	-0.46
2,764.00	20.37	220.02	2,664.01	-478.07	-395.05	-398.95	1.27	-1.25	-0.60
2,858.00	19.62	218.34	2,752.34	-502.98	-415.36	-419.47	1.00	-0.80	-1.79
2,952.00	20.33	215.48	2,840.69	-528.65	-434.63	-438.95	1.28	0.76	-3.04
3,047.00	20.46	220.28	2,929.74	-554.76	-454.94	-459.48	1.77	0.14	5.05
3,142.00	19.97	220.24	3,018.89	-579.81	-476.15	-480.89	0.52	-0.52	-0.04
3,236.00	19.71	220.02	3,107.31	-604.20	-496.72	-501.66	0.29	-0.28	-0.23
3,331.00	20.55	219.36	3,196.50	-629.36	-517.59	-522.74	0.92	0.88	-0.69
3,426.00	21.52	218.34	3,285.17	-655.92	-538.98	-544.34	1.09	1.02	-1.07
3,521.00	21.74	217.28	3,373.48	-683.59	-560.44	-566.03	0.47	0.23	-1.12
3,616.00	22.05	218.78	3,461.63	-711.49	-582.27	-588.08	0.67	0.33	1.58
3,710.00	22.01	218.65	3,548.77	-739.00	-604.32	-610.36	0.07	-0.04	-0.14
3,805.00	21.34	216.67	3,637.05	-766.77	-625.76	-632.03	1.04	-0.71	-2.08
3,900.00	22.27	216.93	3,725.25	-795.02	-646.90	-653.40	0.98	0.98	0.27
3,995.00	22.05	217.11	3,813.24	-823.63	-668.48	-675.21	0.24	-0.23	0.19
4,090.00	21.21	216.45	3,901.55	-851.68	-689.45	-696.41	0.92	-0.88	-0.69
4,185.00	20.50	220.63	3,990.33	-878.13	-710.49	-717.67	1.74	-0.75	4.40
4,280.00	19.75	221.96	4,079.53	-902.69	-732.05	-739.43	0.92	-0.79	1.40
4,375.00	18.34	220.28	4,169.32	-926.03	-752.45	-760.02	1.59	-1.48	-1.77
4,469.00	17.41	219.40	4,258.79	-948.18	-770.94	-778.69	1.03	-0.99	-0.94
4,564.00	16.53	217.46	4,349.65	-969.89	-788.18	-796.11	1.10	-0.93	-2.04
4,660.00	15.51	216.36	4,441.92	-991.06	-804.09	-812.20	1.11	-1.06	-1.15
4,756.00	13.43	224.73	4,534.88	-1,009.32	-819.55	-827.81	3.07	-2.17	8.72

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 4-61-04-2525C	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)
4,851.00	12.59	226.80	4,627.44	-1,024.25	-834.87	-843.24	1.01	-0.88	2.18
4,946.00	11.53	223.50	4,720.34	-1,038.23	-848.95	-857.44	1.33	-1.12	-3.47
5,042.00	9.06	214.24	4,814.80	-1,051.44	-859.81	-868.40	3.09	-2.57	-9.65
5,136.00	7.95	210.01	4,907.76	-1,063.18	-867.22	-875.92	1.35	-1.18	-4.50
5,232.00	7.16	206.05	5,002.93	-1,074.31	-873.17	-881.96	0.99	-0.82	-4.13
5,327.00	4.68	207.94	5,097.42	-1,083.05	-877.59	-886.44	2.62	-2.61	1.99
5,423.00	4.20	206.40	5,193.13	-1,089.66	-880.99	-889.90	0.52	-0.50	-1.60
5,519.00	3.00	219.62	5,288.94	-1,094.75	-884.15	-893.10	1.51	-1.25	13.77
5,613.00	3.05	210.89	5,382.81	-1,098.79	-887.00	-895.99	0.49	0.05	-9.29
5,708.00	1.77	276.03	5,477.74	-1,100.80	-889.76	-898.76	2.96	-1.35	68.57
5,804.00	1.02	35.68	5,573.72	-1,099.95	-890.74	-899.73	2.54	-0.78	124.64
5,899.00	18.16	87.99	5,667.08	-1,098.74	-875.33	-884.31	18.48	18.04	55.06
5,994.00	24.08	72.83	5,755.72	-1,092.48	-841.96	-850.90	8.43	6.23	-15.96
6,040.09	29.90	78.92	5,796.78	-1,087.50	-821.69	-830.58	13.96	12.62	13.22
30° Inclination @ 6040.09' MD									
6,090.00	36.41	83.45	5,838.55	-1,083.41	-794.73	-803.59	13.96	13.05	9.07
6,184.00	42.42	91.60	5,911.19	-1,081.11	-735.23	-744.07	8.43	6.39	8.67
6,279.00	57.27	90.33	5,972.28	-1,082.24	-662.83	-671.69	15.66	15.63	-1.34
6,338.49	70.00	91.23	5,998.65	-1,082.99	-609.65	-618.51	21.44	21.40	1.51
70° Inclination @ 6338.49' MD									
6,374.00	77.60	91.69	6,008.55	-1,083.86	-575.58	-584.46	21.44	21.40	1.31
6,468.00	92.58	92.00	6,016.57	-1,086.87	-482.24	-491.14	15.94	15.94	0.33
6,557.00	93.81	93.41	6,011.61	-1,091.06	-393.49	-402.42	2.10	1.38	1.58
6,652.00	91.69	93.01	6,007.05	-1,096.37	-298.75	-307.73	2.27	-2.23	-0.42
6,724.86	90.77	92.71	6,005.49	-1,100.01	-226.00	-235.01	1.33	-1.27	-0.41
Cross @ 6724.86' MD									
6,746.00	90.50	92.62	6,005.26	-1,100.99	-204.88	-213.91	1.33	-1.27	-0.41
6,842.00	88.82	89.80	6,005.83	-1,103.02	-108.92	-117.96	3.42	-1.75	-2.94
6,938.00	88.91	90.19	6,007.73	-1,103.01	-12.94	-21.98	0.42	0.09	0.41
7,032.00	88.11	90.41	6,010.17	-1,103.50	81.03	71.97	0.88	-0.85	0.23
7,127.00	86.92	91.12	6,014.29	-1,104.77	175.93	166.86	1.46	-1.25	0.75
7,222.00	88.11	90.28	6,018.41	-1,105.93	270.83	261.75	1.53	1.25	-0.88
7,318.00	89.62	90.50	6,020.31	-1,106.58	366.81	357.72	1.59	1.57	0.23
7,412.00	89.88	90.41	6,020.72	-1,107.33	460.80	451.70	0.29	0.28	-0.10
7,507.00	91.21	89.49	6,019.82	-1,107.24	555.79	546.69	1.70	1.40	-0.97
7,602.00	90.50	88.78	6,018.40	-1,105.81	650.77	641.68	1.06	-0.75	-0.75
7,697.00	90.10	88.70	6,017.90	-1,103.72	745.75	736.67	0.43	-0.42	-0.08
7,792.00	91.21	89.00	6,016.82	-1,101.81	840.72	831.65	1.21	1.17	0.32
7,887.00	91.69	90.02	6,014.41	-1,101.00	935.69	926.62	1.19	0.51	1.07
7,983.00	90.90	89.80	6,012.24	-1,100.85	1,031.66	1,022.59	0.85	-0.82	-0.23
8,079.00	90.59	89.40	6,010.99	-1,100.18	1,127.65	1,118.59	0.53	-0.32	-0.42
8,175.00	90.50	88.78	6,010.08	-1,098.66	1,223.63	1,214.58	0.65	-0.09	-0.65
8,270.00	91.30	90.90	6,008.59	-1,098.39	1,318.61	1,309.56	2.38	0.84	2.23
8,365.00	91.52	92.22	6,006.25	-1,100.98	1,413.55	1,404.47	1.41	0.23	1.39

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-2525C
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 4-61-04-2525C	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	91.78	90.02	6,003.49	-1,102.85	1,509.48	1,500.39	2.31	0.27	-2.29	
8,555.00	91.91	87.90	6,000.46	-1,101.15	1,603.41	1,594.33	2.26	0.14	-2.26	
8,650.00	91.38	87.90	5,997.73	-1,097.67	1,698.31	1,689.25	0.56	-0.56	0.00	
8,745.00	91.30	89.31	5,995.51	-1,095.35	1,793.25	1,784.21	1.49	-0.08	1.48	
8,840.00	90.81	89.71	5,993.76	-1,094.54	1,888.23	1,879.19	0.67	-0.52	0.42	
8,934.00	91.52	89.40	5,991.85	-1,093.81	1,982.21	1,973.17	0.82	0.76	-0.33	
9,029.00	90.28	89.18	5,990.36	-1,092.63	2,077.19	2,068.16	1.33	-1.31	-0.23	
9,124.00	91.60	92.09	5,988.80	-1,093.69	2,172.16	2,163.11	3.36	1.39	3.06	
9,219.00	92.71	89.89	5,985.23	-1,095.33	2,267.07	2,258.01	2.59	1.17	-2.32	
9,313.00	92.09	87.42	5,981.29	-1,093.12	2,360.95	2,351.91	2.71	-0.66	-2.63	
9,407.00	91.21	87.42	5,978.58	-1,088.89	2,454.82	2,445.80	0.94	-0.94	0.00	
9,502.00	91.21	86.49	5,976.58	-1,083.85	2,549.66	2,540.69	0.98	0.00	-0.98	
9,597.00	90.28	86.10	5,975.34	-1,077.71	2,644.46	2,635.53	1.06	-0.98	-0.41	
9,692.00	90.59	87.02	5,974.62	-1,072.01	2,739.28	2,730.39	1.02	0.33	0.97	
9,788.00	91.30	88.39	5,973.04	-1,068.17	2,835.19	2,826.33	1.61	0.74	1.43	
9,883.00	90.99	87.59	5,971.14	-1,064.83	2,930.11	2,921.28	0.90	-0.33	-0.84	
9,978.00	91.30	88.92	5,969.24	-1,061.94	3,025.04	3,016.23	1.44	0.33	1.40	
10,074.00	91.52	88.52	5,966.88	-1,059.80	3,120.99	3,112.19	0.48	0.23	-0.42	
10,168.00	89.40	88.52	5,966.12	-1,057.37	3,214.95	3,206.17	2.26	-2.26	0.00	
10,262.00	90.10	91.03	5,966.53	-1,057.00	3,308.94	3,300.16	2.77	0.74	2.67	
10,358.00	89.70	91.12	5,966.70	-1,058.80	3,404.92	3,396.12	0.43	-0.42	0.09	
10,452.00	88.51	93.01	5,968.17	-1,062.19	3,498.85	3,490.01	2.38	-1.27	2.01	
10,547.00	88.38	91.78	5,970.75	-1,066.16	3,593.73	3,584.86	1.30	-0.14	-1.29	
10,642.00	93.11	92.49	5,969.51	-1,069.70	3,688.62	3,679.73	5.03	4.98	0.75	
10,737.00	91.12	90.81	5,966.01	-1,072.43	3,783.51	3,774.59	2.74	-2.09	-1.77	
10,832.00	91.52	92.40	5,963.82	-1,075.09	3,878.45	3,869.50	1.73	0.42	1.67	
10,927.00	91.69	89.89	5,961.16	-1,076.99	3,973.38	3,964.41	2.65	0.18	-2.64	
11,021.00	90.50	89.80	5,959.36	-1,076.73	4,067.36	4,058.39	1.27	-1.27	-0.10	
11,116.00	90.81	91.60	5,958.27	-1,077.89	4,162.35	4,153.36	1.92	0.33	1.89	
11,212.00	89.09	88.39	5,958.36	-1,077.88	4,258.33	4,249.34	3.79	-1.79	-3.34	
11,308.00	88.38	89.62	5,960.48	-1,076.22	4,354.29	4,345.31	1.48	-0.74	1.28	
11,400.00	89.88	87.90	5,961.87	-1,074.23	4,446.25	4,437.29	2.48	1.63	-1.87	
11,491.00	88.51	88.61	5,963.15	-1,071.45	4,537.20	4,528.26	1.70	-1.51	0.78	
11,583.00	89.22	87.81	5,964.98	-1,068.58	4,629.13	4,620.21	1.16	0.77	-0.87	
11,676.00	90.68	88.21	5,965.06	-1,065.35	4,722.07	4,713.18	1.63	1.57	0.43	
11,767.00	90.10	88.52	5,964.44	-1,062.76	4,813.03	4,804.15	0.72	-0.64	0.34	
11,859.00	89.00	88.21	5,965.16	-1,060.13	4,904.99	4,896.13	1.24	-1.20	-0.34	
11,899.03	90.75	88.25	5,965.25	-1,058.89	4,945.00	4,936.15	4.37	4.37	0.10	
Cross @ 11899.03' MD										
11,951.00	93.02	88.30	5,963.54	-1,057.33	4,996.92	4,988.08	4.37	4.37	0.10	
12,043.00	93.50	88.92	5,958.31	-1,055.10	5,088.74	5,079.91	0.85	0.52	0.67	
12,135.00	91.91	88.08	5,953.97	-1,052.70	5,180.60	5,171.79	1.95	-1.73	-0.91	
12,227.00	92.31	88.61	5,950.58	-1,050.04	5,272.50	5,263.71	0.72	0.43	0.58	
12,319.00	89.62	87.59	5,949.03	-1,046.99	5,364.43	5,355.66	3.13	-2.92	-1.11	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-2525C
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 4-61-04-2525C	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)
12,411.00	89.48	87.29	5,949.75	-1,042.88	5,456.33	5,447.59	0.36	-0.15	-0.33
12,503.00	92.31	91.30	5,948.31	-1,041.75	5,548.29	5,539.55	5.33	3.08	4.36
12,595.00	90.59	90.02	5,945.99	-1,042.81	5,640.25	5,631.50	2.33	-1.87	-1.39
12,687.00	90.59	89.80	5,945.04	-1,042.66	5,732.24	5,723.49	0.24	0.00	-0.24
12,782.00	91.21	88.61	5,943.55	-1,041.35	5,827.22	5,818.48	1.41	0.65	-1.25
12,878.00	90.50	89.18	5,942.11	-1,039.49	5,923.19	5,914.46	0.95	-0.74	0.59
12,972.00	88.69	89.49	5,942.78	-1,038.40	6,017.18	6,008.45	1.95	-1.93	0.33
13,067.00	88.32	88.52	5,945.26	-1,036.75	6,112.13	6,103.42	1.09	-0.39	-1.02
13,162.00	89.62	89.31	5,946.96	-1,034.96	6,207.09	6,198.39	1.60	1.37	0.83
13,257.00	89.79	88.78	5,947.45	-1,033.37	6,302.08	6,293.39	0.59	0.18	-0.56
13,352.00	89.00	89.89	5,948.46	-1,032.27	6,397.06	6,388.38	1.43	-0.83	1.17
13,447.00	88.11	90.28	5,950.85	-1,032.41	6,492.03	6,483.34	1.02	-0.94	0.41
13,542.00	89.22	90.28	5,953.07	-1,032.88	6,587.00	6,578.31	1.17	1.17	0.00
13,635.00	88.69	90.19	5,954.76	-1,033.26	6,679.99	6,671.29	0.58	-0.57	-0.10
13,730.00	90.99	89.62	5,955.03	-1,033.10	6,774.98	6,766.28	2.49	2.42	-0.60
13,825.00	89.79	88.78	5,954.38	-1,031.77	6,869.97	6,861.27	1.54	-1.26	-0.88
13,920.00	90.01	89.62	5,954.55	-1,030.45	6,964.96	6,956.27	0.91	0.23	0.88
14,015.00	90.81	91.69	5,953.87	-1,031.53	7,059.94	7,051.24	2.34	0.84	2.18
14,110.00	90.50	91.69	5,952.78	-1,034.33	7,154.89	7,146.17	0.33	-0.33	0.00
14,205.00	89.79	91.78	5,952.54	-1,037.21	7,249.85	7,241.10	0.75	-0.75	0.09
14,300.00	90.50	89.80	5,952.30	-1,038.52	7,344.83	7,336.07	2.21	0.75	-2.08
14,395.00	89.40	90.11	5,952.38	-1,038.45	7,439.83	7,431.06	1.20	-1.16	0.33
14,490.00	89.00	89.18	5,953.71	-1,037.86	7,534.82	7,526.05	1.07	-0.42	-0.98
14,584.00	90.19	89.80	5,954.37	-1,037.02	7,628.81	7,620.05	1.43	1.27	0.66
14,679.00	90.50	88.52	5,953.80	-1,035.63	7,723.80	7,715.04	1.39	0.33	-1.35
14,774.00	89.70	88.21	5,953.64	-1,032.92	7,818.76	7,810.02	0.90	-0.84	-0.33
14,868.00	89.22	87.99	5,954.52	-1,029.80	7,912.70	7,903.99	0.56	-0.51	-0.23
14,963.00	89.79	89.80	5,955.34	-1,027.97	8,007.68	7,998.97	2.00	0.60	1.91
15,059.00	89.48	90.41	5,955.95	-1,028.14	8,103.67	8,094.97	0.71	-0.32	0.64
15,154.00	89.40	88.92	5,956.88	-1,027.59	8,198.66	8,189.96	1.57	-0.08	-1.57
15,249.00	89.31	88.39	5,957.95	-1,025.36	8,293.63	8,284.94	0.57	-0.09	-0.56
15,345.00	89.79	89.89	5,958.71	-1,023.92	8,389.62	8,380.93	1.64	0.50	1.56
15,439.00	91.38	88.78	5,957.75	-1,022.83	8,483.60	8,474.92	2.06	1.69	-1.18
15,534.00	90.90	88.78	5,955.86	-1,020.81	8,578.56	8,569.90	0.51	-0.51	0.00
15,629.00	90.72	88.08	5,954.51	-1,018.20	8,673.51	8,664.87	0.76	-0.19	-0.74
15,724.00	90.81	87.68	5,953.24	-1,014.69	8,768.44	8,759.82	0.43	0.09	-0.42
15,820.00	90.41	87.68	5,952.22	-1,010.80	8,864.36	8,855.77	0.42	-0.42	0.00
15,914.00	88.60	89.31	5,953.03	-1,008.33	8,958.31	8,949.74	2.59	-1.93	1.73
16,009.00	88.38	90.90	5,955.54	-1,008.51	9,053.28	9,044.70	1.69	-0.23	1.67
16,104.00	90.28	91.52	5,956.65	-1,010.51	9,148.24	9,139.65	2.10	2.00	0.65
16,199.00	92.80	91.30	5,954.10	-1,012.85	9,243.17	9,234.55	2.66	2.65	-0.23
16,295.00	93.11	91.91	5,949.15	-1,015.54	9,339.01	9,330.36	0.71	0.32	0.64
16,389.00	93.59	90.41	5,943.65	-1,017.44	9,432.82	9,424.16	1.67	0.51	-1.60

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-61-04-2525C
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 4-61-04-2525C	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)	
16,485.00	92.40	90.50	5,938.64	-1,018.20	9,528.69	9,520.02	1.24	-1.24	0.09	
16,580.00	93.28	90.02	5,933.93	-1,018.63	9,623.57	9,614.89	1.05	0.93	-0.51	
16,674.00	91.21	91.78	5,930.25	-1,020.10	9,717.48	9,708.78	2.89	-2.20	1.87	
16,770.00	91.52	90.68	5,927.96	-1,022.16	9,813.43	9,804.71	1.19	0.32	-1.15	
16,865.00	90.90	91.30	5,925.96	-1,023.81	9,908.39	9,899.66	0.92	-0.65	0.65	
16,933.00	89.88	89.89	5,925.49	-1,024.51	9,976.38	9,967.64	2.56	-1.50	-2.07	
Last MWD Survey @ 16933' MD										
17,002.00	89.88	89.89	5,925.64	-1,024.38	10,045.38	10,036.64	0.00	0.00	0.00	
Projection to TD @ 17002' MD 2558' 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 @ 6040.0	0.00	0.00	5,796.76	-1,087.29	-821.69	1,370,306.95	3,354,600.45	40.342911	-104.227824	
- actual wellpath misses target center by 0.20usft at 6040.09usft MD (5796.78 TVD, -1087.50 N, -821.69 E)										
- Point										
Cross @ 11899.03' MD	0.00	0.00	5,965.25	-1,058.89	4,945.00	1,370,418.27	3,360,366.12	40.342988	-104.207136	
- actual wellpath hits target center										
- Point										
70° Inclination @ 6338.4	0.00	0.00	5,998.65	-1,082.97	-609.65	1,370,314.33	3,354,812.40	40.342923	-104.227063	
- actual wellpath misses target center by 0.02usft at 6338.49usft MD (5998.65 TVD, -1082.99 N, -609.65 E)										
- Point										
Cross @ 6724.86' MD	0.00	0.00	6,005.49	-1,100.01	-226.00	1,370,302.80	3,355,196.26	40.342876	-104.225687	
- actual wellpath hits target center										
- Point										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
809.00	807.45	-28.15	-29.23	Tie into Surface Surveys	
976.00	973.77	-39.94	-38.65	First MWD Survey @ 976' MD	
6,040.09	5,796.78	-1,087.50	-821.69	30° Inclination @ 6040.09' MD	
6,338.49	5,998.65	-1,082.99	-609.65	70° Inclination @ 6338.49' MD	
6,724.86	6,005.49	-1,100.01	-226.00	Cross @ 6724.86' MD	
11,899.03	5,965.25	-1,058.89	4,945.00	Cross @ 11899.03' MD	
16,933.00	5,925.49	-1,024.51	9,976.38	Last MWD Survey @ 16933' MD	
17,002.00	5,925.64	-1,024.38	10,045.38	Projection to TD @ 17002' MD 2558' FNL/ 126' FEL	

Checked By: _____ Approved By: _____ Date: _____