**Bill Barrett Corporation**

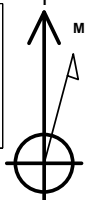
PROJECT DETAILS: Weld County, CO NAD 83

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

Plan: Plan 1 (RSU Anschutz Fed 4-62-02-4956C/OH)


Created By: Seth Burstad

Project: Weld County, CO NAD 83
Site: RSU Anschutz Fed 4-62-2_1 SE3 Pad
Well: RSU Anschutz Fed 4-62-02-4956C
Wellbore: OH
Design: Plan 1

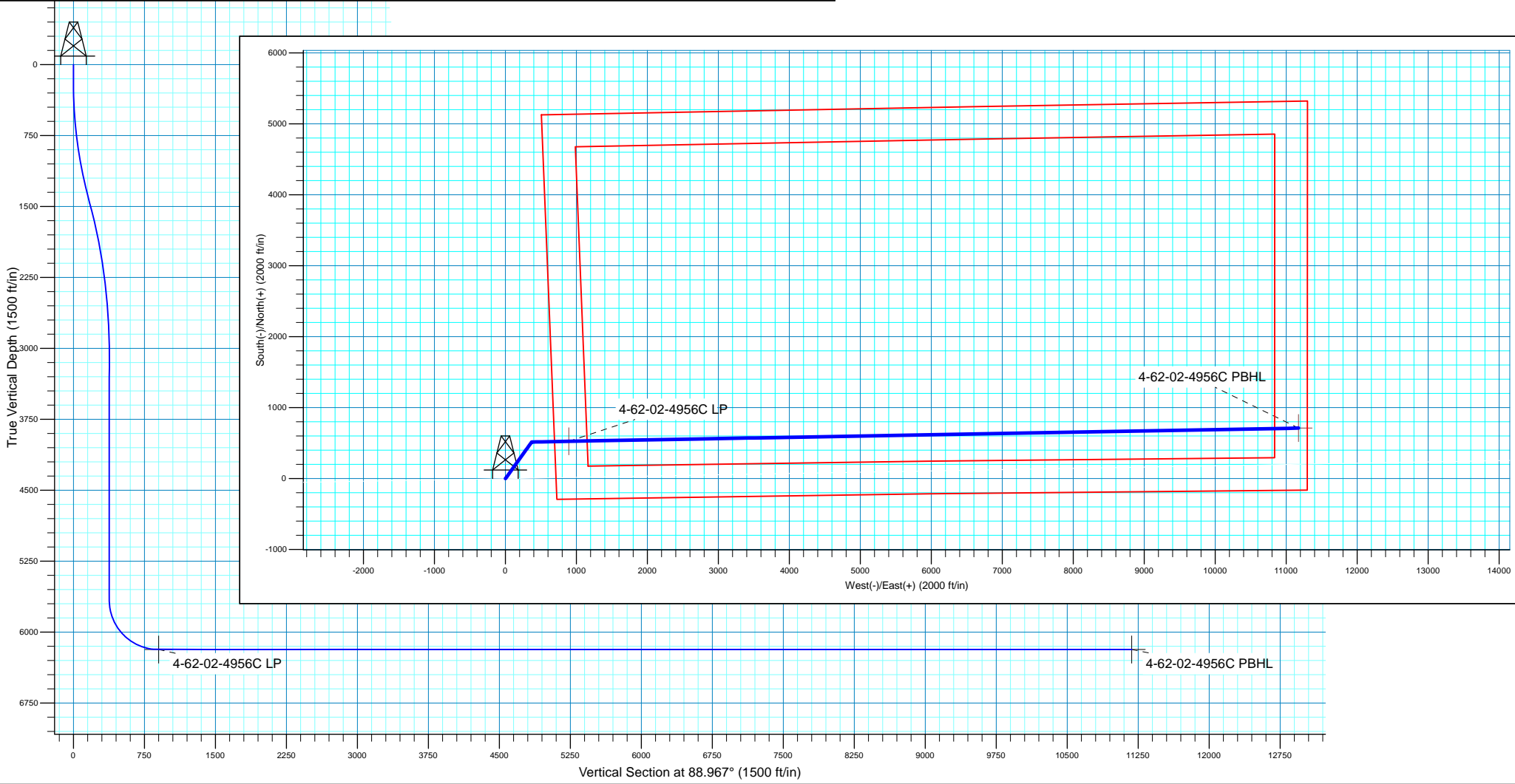


Azimuths to True North
Magnetic North: 8.20°

Magnetic Field
Strength: 52288.8nT
Dip Angle: 66.97°
Date: 1/3/2018
Model: HDGM



SECTION DETAILS									WELL DETAILS: RSU Anschutz Fed 4-62-02-4956C			
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	GL 4523' & KB 20' @ 4543.00ft 4523.00			
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	+N/-S	+E/-W	Northing	Longitude
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1367141.44	104° 18' 16.751 W
1336.00	22.72	35.605	1306.47	180.74	129.42	2.00	35.60	132.66	Latitude			
1636.01	22.72	35.605	1583.19	274.95	196.88	0.00	0.00	201.80	40° 20' 6.140 N			
3150.68	0.00	0.000	3058.48	515.94	369.44	1.50	180.00	378.68				
5756.33	0.00	0.000	5664.13	515.94	369.44	0.00	0.00	378.68				
6574.51	90.00	88.967	6185.00	525.33	890.23	11.00	88.97	899.55				
16856.82	90.00	88.967	6185.00	710.73	11170.86	0.00	0.00	11181.86				





Bill Barrett Corporation

Bill Barrett Corp.

Weld County, CO NAD 83

RSU Anschutz Fed 4-62-2_1 SE3 Pad

RSU Anschutz Fed 4-62-02-4956C

OH

Plan: Plan 1

Standard Planning Report

03 January, 2018



Scientific Drilling

www.scientificdrilling.com



Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4956C
Company:	Bill Barrett Corp.	TVD Reference:	GL 4523' & KB 20' @ 4543.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4523' & KB 20' @ 4543.00ft
Site:	RSU Anschutz Fed 4-62-2_1 SE3 Pad	North Reference:	True
Well:	RSU Anschutz Fed 4-62-02-4956C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	Weld County, CO NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	RSU Anschutz Fed 4-62-2_1 SE3 Pad, Site Center : RSU Anschutz Fed 4-62-11-0108C			
Site Position:		Northing:	1,367,111.95 usft	Latitude: 40° 20' 5.849 N
From:	Lat/Long	Easting:	3,333,225.84 usft	Longitude: 104° 18' 16.751 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.77 °

Well	RSU Anschutz Fed 4-62-02-4956C, 298' FSL 712' FEL Sec 3 T4N R62W			
Well Position	+N/-S	29.50 ft	Northing:	1,367,141.45 usft
	+E/-W	0.00 ft	Easting:	3,333,225.44 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft
			Ground Level:	4,523.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/3/2018	8.20	66.97	52,289

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	88.967

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,336.00	22.72	35.605	1,306.47	180.74	129.42	2.00	2.00	0.00	35.60	
1,636.01	22.72	35.605	1,583.19	274.95	196.88	0.00	0.00	0.00	0.00	
3,150.68	0.00	0.000	3,058.48	515.94	369.44	1.50	-1.50	0.00	180.00	
5,756.33	0.00	0.000	5,664.13	515.94	369.44	0.00	0.00	0.00	0.00	
6,574.51	90.00	88.967	6,185.00	525.33	890.23	11.00	11.00	10.87	88.97	
16,856.82	90.00	88.967	6,185.00	710.72	11,170.86	0.00	0.00	0.00	0.00	4-62-02-4956C PBHL

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4956C
Company:	Bill Barrett Corp.	TVD Reference:	GL 4523' & KB 20' @ 4543.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4523' & KB 20' @ 4543.00ft
Site:	RSU Anschutz Fed 4-62-2_1 SE3 Pad	North Reference:	True
Well:	RSU Anschutz Fed 4-62-02-4956C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
300.00	2.00	35.605	299.98	1.42	1.02	1.04	2.00	2.00	0.00
400.00	4.00	35.605	399.84	5.67	4.06	4.16	2.00	2.00	0.00
500.00	6.00	35.605	499.45	12.76	9.14	9.37	2.00	2.00	0.00
600.00	8.00	35.605	598.70	22.67	16.23	16.64	2.00	2.00	0.00
700.00	10.00	35.605	697.47	35.39	25.34	25.97	2.00	2.00	0.00
800.00	12.00	35.605	795.62	50.90	36.45	37.36	2.00	2.00	0.00
900.00	14.00	35.605	893.06	69.19	49.54	50.78	2.00	2.00	0.00
1,000.00	16.00	35.605	989.64	90.23	64.61	66.23	2.00	2.00	0.00
1,100.00	18.00	35.605	1,085.27	114.00	81.63	83.67	2.00	2.00	0.00
1,200.00	20.00	35.605	1,179.82	140.47	100.58	103.10	2.00	2.00	0.00
1,300.00	22.00	35.605	1,273.17	169.61	121.45	124.48	2.00	2.00	0.00
1,336.00	22.72	35.605	1,306.47	180.74	129.42	132.66	2.00	2.00	0.00
Start 300.00 hold at 1336.00 MD									
1,400.00	22.72	35.605	1,365.50	200.84	143.81	147.41	0.00	0.00	0.00
1,500.00	22.72	35.605	1,457.74	232.24	166.30	170.46	0.00	0.00	0.00
1,600.00	22.72	35.605	1,549.98	263.64	188.78	193.50	0.00	0.00	0.00
1,636.01	22.72	35.605	1,583.19	274.95	196.88	201.80	0.00	0.00	0.00
Start Drop -1.50									
1,700.00	21.76	35.605	1,642.42	294.64	210.98	216.26	1.50	-1.50	0.00
1,800.00	20.26	35.605	1,735.77	323.79	231.85	237.65	1.50	-1.50	0.00
1,900.00	18.76	35.605	1,830.03	350.95	251.30	257.58	1.50	-1.50	0.00
2,000.00	17.26	35.605	1,925.12	376.08	269.30	276.03	1.50	-1.50	0.00
2,100.00	15.76	35.605	2,021.00	399.19	285.84	292.99	1.50	-1.50	0.00
2,200.00	14.26	35.605	2,117.58	420.25	300.92	308.45	1.50	-1.50	0.00
2,300.00	12.76	35.605	2,214.81	439.24	314.52	322.39	1.50	-1.50	0.00
2,400.00	11.26	35.605	2,312.62	456.16	326.63	334.80	1.50	-1.50	0.00
2,500.00	9.76	35.605	2,410.94	470.99	337.25	345.69	1.50	-1.50	0.00
2,600.00	8.26	35.605	2,509.70	483.72	346.37	355.03	1.50	-1.50	0.00
2,700.00	6.76	35.605	2,608.84	494.35	353.98	362.83	1.50	-1.50	0.00
2,800.00	5.26	35.605	2,708.29	502.86	360.07	369.08	1.50	-1.50	0.00
2,900.00	3.76	35.605	2,807.98	509.25	364.65	373.77	1.50	-1.50	0.00
3,000.00	2.26	35.605	2,907.84	513.52	367.71	376.91	1.50	-1.50	0.00
3,100.00	0.76	35.605	3,007.80	515.67	369.24	378.48	1.50	-1.50	0.00
3,150.68	0.00	0.000	3,058.48	515.94	369.44	378.68	1.50	-1.50	0.00
Start 2605.65 hold at 3150.68 MD									
3,200.00	0.00	0.000	3,107.80	515.94	369.44	378.68	0.00	0.00	0.00
3,300.00	0.00	0.000	3,207.80	515.94	369.44	378.68	0.00	0.00	0.00
3,400.00	0.00	0.000	3,307.80	515.94	369.44	378.68	0.00	0.00	0.00
3,500.00	0.00	0.000	3,407.80	515.94	369.44	378.68	0.00	0.00	0.00
3,600.00	0.00	0.000	3,507.80	515.94	369.44	378.68	0.00	0.00	0.00
3,700.00	0.00	0.000	3,607.80	515.94	369.44	378.68	0.00	0.00	0.00
3,800.00	0.00	0.000	3,707.80	515.94	369.44	378.68	0.00	0.00	0.00
3,900.00	0.00	0.000	3,807.80	515.94	369.44	378.68	0.00	0.00	0.00
4,000.00	0.00	0.000	3,907.80	515.94	369.44	378.68	0.00	0.00	0.00
4,100.00	0.00	0.000	4,007.80	515.94	369.44	378.68	0.00	0.00	0.00
4,200.00	0.00	0.000	4,107.80	515.94	369.44	378.68	0.00	0.00	0.00
4,300.00	0.00	0.000	4,207.80	515.94	369.44	378.68	0.00	0.00	0.00
4,400.00	0.00	0.000	4,307.80	515.94	369.44	378.68	0.00	0.00	0.00
4,500.00	0.00	0.000	4,407.80	515.94	369.44	378.68	0.00	0.00	0.00
4,600.00	0.00	0.000	4,507.80	515.94	369.44	378.68	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4956C
Company:	Bill Barrett Corp.	TVD Reference:	GL 4523' & KB 20' @ 4543.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4523' & KB 20' @ 4543.00ft
Site:	RSU Anschutz Fed 4-62-2_1 SE3 Pad	North Reference:	True
Well:	RSU Anschutz Fed 4-62-02-4956C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,700.00	0.00	0.000	4,607.80	515.94	369.44	378.68	0.00	0.00	0.00
4,800.00	0.00	0.000	4,707.80	515.94	369.44	378.68	0.00	0.00	0.00
4,900.00	0.00	0.000	4,807.80	515.94	369.44	378.68	0.00	0.00	0.00
5,000.00	0.00	0.000	4,907.80	515.94	369.44	378.68	0.00	0.00	0.00
5,100.00	0.00	0.000	5,007.80	515.94	369.44	378.68	0.00	0.00	0.00
5,200.00	0.00	0.000	5,107.80	515.94	369.44	378.68	0.00	0.00	0.00
5,300.00	0.00	0.000	5,207.80	515.94	369.44	378.68	0.00	0.00	0.00
5,400.00	0.00	0.000	5,307.80	515.94	369.44	378.68	0.00	0.00	0.00
5,500.00	0.00	0.000	5,407.80	515.94	369.44	378.68	0.00	0.00	0.00
5,600.00	0.00	0.000	5,507.80	515.94	369.44	378.68	0.00	0.00	0.00
5,700.00	0.00	0.000	5,607.80	515.94	369.44	378.68	0.00	0.00	0.00
5,756.33	0.00	0.000	5,664.13	515.94	369.44	378.68	0.00	0.00	0.00
Start DLS 11.00 TFO 88.97									
5,800.00	4.80	88.967	5,707.75	515.97	371.27	380.51	11.00	11.00	0.00
5,900.00	15.80	88.967	5,805.98	516.29	389.12	398.37	11.00	11.00	0.00
6,000.00	26.80	88.967	5,899.01	516.95	425.39	434.64	11.00	11.00	0.00
6,100.00	37.80	88.967	5,983.40	517.91	478.74	488.00	11.00	11.00	0.00
6,200.00	48.80	88.967	6,056.06	519.15	547.21	556.48	11.00	11.00	0.00
6,300.00	59.80	88.967	6,114.32	520.61	628.29	637.57	11.00	11.00	0.00
6,400.00	70.80	88.967	6,156.04	522.24	718.99	728.28	11.00	11.00	0.00
6,500.00	81.80	88.967	6,179.68	523.99	815.98	825.29	11.00	11.00	0.00
6,574.51	90.00	88.967	6,185.00	525.33	890.23	899.55	11.00	11.00	0.00
Start 10282.31 hold at 6574.51 MD									
6,600.00	90.00	88.967	6,185.00	525.79	915.71	925.04	0.00	0.00	0.00
6,700.00	90.00	88.967	6,185.00	527.59	1,015.69	1,025.04	0.00	0.00	0.00
6,800.00	90.00	88.967	6,185.00	529.40	1,115.67	1,125.04	0.00	0.00	0.00
6,900.00	90.00	88.967	6,185.00	531.20	1,215.66	1,225.04	0.00	0.00	0.00
7,000.00	90.00	88.967	6,185.00	533.00	1,315.64	1,325.04	0.00	0.00	0.00
7,100.00	90.00	88.967	6,185.00	534.81	1,415.63	1,425.04	0.00	0.00	0.00
7,200.00	90.00	88.967	6,185.00	536.61	1,515.61	1,525.04	0.00	0.00	0.00
7,300.00	90.00	88.967	6,185.00	538.41	1,615.59	1,625.04	0.00	0.00	0.00
7,400.00	90.00	88.967	6,185.00	540.21	1,715.58	1,725.04	0.00	0.00	0.00
7,500.00	90.00	88.967	6,185.00	542.02	1,815.56	1,825.04	0.00	0.00	0.00
7,600.00	90.00	88.967	6,185.00	543.82	1,915.54	1,925.04	0.00	0.00	0.00
7,700.00	90.00	88.967	6,185.00	545.62	2,015.53	2,025.04	0.00	0.00	0.00
7,800.00	90.00	88.967	6,185.00	547.43	2,115.51	2,125.04	0.00	0.00	0.00
7,900.00	90.00	88.967	6,185.00	549.23	2,215.50	2,225.04	0.00	0.00	0.00
8,000.00	90.00	88.967	6,185.00	551.03	2,315.48	2,325.04	0.00	0.00	0.00
8,100.00	90.00	88.967	6,185.00	552.84	2,415.46	2,425.04	0.00	0.00	0.00
8,200.00	90.00	88.967	6,185.00	554.64	2,515.45	2,525.04	0.00	0.00	0.00
8,300.00	90.00	88.967	6,185.00	556.44	2,615.43	2,625.04	0.00	0.00	0.00
8,400.00	90.00	88.967	6,185.00	558.24	2,715.41	2,725.04	0.00	0.00	0.00
8,500.00	90.00	88.967	6,185.00	560.05	2,815.40	2,825.04	0.00	0.00	0.00
8,600.00	90.00	88.967	6,185.00	561.85	2,915.38	2,925.04	0.00	0.00	0.00
8,700.00	90.00	88.967	6,185.00	563.65	3,015.37	3,025.04	0.00	0.00	0.00
8,800.00	90.00	88.967	6,185.00	565.46	3,115.35	3,125.04	0.00	0.00	0.00
8,900.00	90.00	88.967	6,185.00	567.26	3,215.33	3,225.04	0.00	0.00	0.00
9,000.00	90.00	88.967	6,185.00	569.06	3,315.32	3,325.04	0.00	0.00	0.00
9,100.00	90.00	88.967	6,185.00	570.87	3,415.30	3,425.04	0.00	0.00	0.00
9,200.00	90.00	88.967	6,185.00	572.67	3,515.28	3,525.04	0.00	0.00	0.00
9,300.00	90.00	88.967	6,185.00	574.47	3,615.27	3,625.04	0.00	0.00	0.00
9,400.00	90.00	88.967	6,185.00	576.27	3,715.25	3,725.04	0.00	0.00	0.00
9,500.00	90.00	88.967	6,185.00	578.08	3,815.24	3,825.04	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4956C
Company:	Bill Barrett Corp.	TVD Reference:	GL 4523' & KB 20' @ 4543.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4523' & KB 20' @ 4543.00ft
Site:	RSU Anschutz Fed 4-62-2_1 SE3 Pad	North Reference:	True
Well:	RSU Anschutz Fed 4-62-02-4956C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,600.00	90.00	88.967	6,185.00	579.88	3,915.22	3,925.04	0.00	0.00	0.00
9,700.00	90.00	88.967	6,185.00	581.68	4,015.20	4,025.04	0.00	0.00	0.00
9,800.00	90.00	88.967	6,185.00	583.49	4,115.19	4,125.04	0.00	0.00	0.00
9,900.00	90.00	88.967	6,185.00	585.29	4,215.17	4,225.04	0.00	0.00	0.00
10,000.00	90.00	88.967	6,185.00	587.09	4,315.15	4,325.04	0.00	0.00	0.00
10,100.00	90.00	88.967	6,185.00	588.90	4,415.14	4,425.04	0.00	0.00	0.00
10,200.00	90.00	88.967	6,185.00	590.70	4,515.12	4,525.04	0.00	0.00	0.00
10,300.00	90.00	88.967	6,185.00	592.50	4,615.11	4,625.04	0.00	0.00	0.00
10,400.00	90.00	88.967	6,185.00	594.30	4,715.09	4,725.04	0.00	0.00	0.00
10,500.00	90.00	88.967	6,185.00	596.11	4,815.07	4,825.04	0.00	0.00	0.00
10,600.00	90.00	88.967	6,185.00	597.91	4,915.06	4,925.04	0.00	0.00	0.00
10,700.00	90.00	88.967	6,185.00	599.71	5,015.04	5,025.04	0.00	0.00	0.00
10,800.00	90.00	88.967	6,185.00	601.52	5,115.02	5,125.04	0.00	0.00	0.00
10,900.00	90.00	88.967	6,185.00	603.32	5,215.01	5,225.04	0.00	0.00	0.00
11,000.00	90.00	88.967	6,185.00	605.12	5,314.99	5,325.04	0.00	0.00	0.00
11,100.00	90.00	88.967	6,185.00	606.93	5,414.98	5,425.04	0.00	0.00	0.00
11,200.00	90.00	88.967	6,185.00	608.73	5,514.96	5,525.04	0.00	0.00	0.00
11,300.00	90.00	88.967	6,185.00	610.53	5,614.94	5,625.04	0.00	0.00	0.00
11,400.00	90.00	88.967	6,185.00	612.33	5,714.93	5,725.04	0.00	0.00	0.00
11,500.00	90.00	88.967	6,185.00	614.14	5,814.91	5,825.04	0.00	0.00	0.00
11,600.00	90.00	88.967	6,185.00	615.94	5,914.89	5,925.04	0.00	0.00	0.00
11,700.00	90.00	88.967	6,185.00	617.74	6,014.88	6,025.04	0.00	0.00	0.00
11,800.00	90.00	88.967	6,185.00	619.55	6,114.86	6,125.04	0.00	0.00	0.00
11,900.00	90.00	88.967	6,185.00	621.35	6,214.85	6,225.04	0.00	0.00	0.00
12,000.00	90.00	88.967	6,185.00	623.15	6,314.83	6,325.04	0.00	0.00	0.00
12,100.00	90.00	88.967	6,185.00	624.96	6,414.81	6,425.04	0.00	0.00	0.00
12,200.00	90.00	88.967	6,185.00	626.76	6,514.80	6,525.04	0.00	0.00	0.00
12,300.00	90.00	88.967	6,185.00	628.56	6,614.78	6,625.04	0.00	0.00	0.00
12,400.00	90.00	88.967	6,185.00	630.36	6,714.76	6,725.04	0.00	0.00	0.00
12,500.00	90.00	88.967	6,185.00	632.17	6,814.75	6,825.04	0.00	0.00	0.00
12,600.00	90.00	88.967	6,185.00	633.97	6,914.73	6,925.04	0.00	0.00	0.00
12,700.00	90.00	88.967	6,185.00	635.77	7,014.72	7,025.04	0.00	0.00	0.00
12,800.00	90.00	88.967	6,185.00	637.58	7,114.70	7,125.04	0.00	0.00	0.00
12,900.00	90.00	88.967	6,185.00	639.38	7,214.68	7,225.04	0.00	0.00	0.00
13,000.00	90.00	88.967	6,185.00	641.18	7,314.67	7,325.04	0.00	0.00	0.00
13,100.00	90.00	88.967	6,185.00	642.99	7,414.65	7,425.04	0.00	0.00	0.00
13,200.00	90.00	88.967	6,185.00	644.79	7,514.63	7,525.04	0.00	0.00	0.00
13,300.00	90.00	88.967	6,185.00	646.59	7,614.62	7,625.04	0.00	0.00	0.00
13,400.00	90.00	88.967	6,185.00	648.39	7,714.60	7,725.04	0.00	0.00	0.00
13,500.00	90.00	88.967	6,185.00	650.20	7,814.59	7,825.04	0.00	0.00	0.00
13,600.00	90.00	88.967	6,185.00	652.00	7,914.57	7,925.04	0.00	0.00	0.00
13,700.00	90.00	88.967	6,185.00	653.80	8,014.55	8,025.04	0.00	0.00	0.00
13,800.00	90.00	88.967	6,185.00	655.61	8,114.54	8,125.04	0.00	0.00	0.00
13,900.00	90.00	88.967	6,185.00	657.41	8,214.52	8,225.04	0.00	0.00	0.00
14,000.00	90.00	88.967	6,185.00	659.21	8,314.50	8,325.04	0.00	0.00	0.00
14,100.00	90.00	88.967	6,185.00	661.02	8,414.49	8,425.04	0.00	0.00	0.00
14,200.00	90.00	88.967	6,185.00	662.82	8,514.47	8,525.04	0.00	0.00	0.00
14,300.00	90.00	88.967	6,185.00	664.62	8,614.46	8,625.04	0.00	0.00	0.00
14,400.00	90.00	88.967	6,185.00	666.42	8,714.44	8,725.04	0.00	0.00	0.00
14,500.00	90.00	88.967	6,185.00	668.23	8,814.42	8,825.04	0.00	0.00	0.00
14,600.00	90.00	88.967	6,185.00	670.03	8,914.41	8,925.04	0.00	0.00	0.00
14,700.00	90.00	88.967	6,185.00	671.83	9,014.39	9,025.04	0.00	0.00	0.00
14,800.00	90.00	88.967	6,185.00	673.64	9,114.37	9,125.04	0.00	0.00	0.00
14,900.00	90.00	88.967	6,185.00	675.44	9,214.36	9,225.04	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4956C
Company:	Bill Barrett Corp.	TVD Reference:	GL 4523' & KB 20' @ 4543.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4523' & KB 20' @ 4543.00ft
Site:	RSU Anschutz Fed 4-62-2_1 SE3 Pad	North Reference:	True
Well:	RSU Anschutz Fed 4-62-02-4956C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,000.00	90.00	88.967	6,185.00	677.24	9,314.34	9,325.04	0.00	0.00	0.00
15,100.00	90.00	88.967	6,185.00	679.05	9,414.33	9,425.04	0.00	0.00	0.00
15,200.00	90.00	88.967	6,185.00	680.85	9,514.31	9,525.04	0.00	0.00	0.00
15,300.00	90.00	88.967	6,185.00	682.65	9,614.29	9,625.04	0.00	0.00	0.00
15,400.00	90.00	88.967	6,185.00	684.45	9,714.28	9,725.04	0.00	0.00	0.00
15,500.00	90.00	88.967	6,185.00	686.26	9,814.26	9,825.04	0.00	0.00	0.00
15,600.00	90.00	88.967	6,185.00	688.06	9,914.24	9,925.04	0.00	0.00	0.00
15,700.00	90.00	88.967	6,185.00	689.86	10,014.23	10,025.04	0.00	0.00	0.00
15,800.00	90.00	88.967	6,185.00	691.67	10,114.21	10,125.04	0.00	0.00	0.00
15,900.00	90.00	88.967	6,185.00	693.47	10,214.20	10,225.04	0.00	0.00	0.00
16,000.00	90.00	88.967	6,185.00	695.27	10,314.18	10,325.04	0.00	0.00	0.00
16,100.00	90.00	88.967	6,185.00	697.08	10,414.16	10,425.04	0.00	0.00	0.00
16,200.00	90.00	88.967	6,185.00	698.88	10,514.15	10,525.04	0.00	0.00	0.00
16,300.00	90.00	88.967	6,185.00	700.68	10,614.13	10,625.04	0.00	0.00	0.00
16,400.00	90.00	88.967	6,185.00	702.48	10,714.11	10,725.04	0.00	0.00	0.00
16,500.00	90.00	88.967	6,185.00	704.29	10,814.10	10,825.04	0.00	0.00	0.00
16,600.00	90.00	88.967	6,185.00	706.09	10,914.08	10,925.04	0.00	0.00	0.00
16,700.00	90.00	88.967	6,185.00	707.89	11,014.07	11,025.04	0.00	0.00	0.00
16,800.00	90.00	88.967	6,185.00	709.70	11,114.05	11,125.04	0.00	0.00	0.00
16,856.82	90.00	88.967	6,185.00	710.72	11,170.86	11,181.86	0.00	0.00	0.00
TD at 16856.82									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
4-62-02-4956C PBHL - hit/miss target - Shape - Point	0.00	0.000	6,185.00	710.72	11,170.86	1,368,002.68	3,344,385.68	40° 20' 13.139 N	104° 15' 52.492 W
4-62-02-4956C LP - plan misses target center by 0.01ft at 6575.52ft MD (6185.00 TVD, 525.35 N, 891.23 E) - Point	0.00	0.000	6,185.00	525.34	891.23	1,367,678.75	3,334,109.51	40° 20' 11.332 N	104° 18' 5.242 W

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 2.00
1,336.00	1,306.47	180.74	129.42	Start 300.00 hold at 1336.00 MD
1,636.01	1,583.19	274.95	196.88	Start Drop -1.50
3,150.68	3,058.48	515.94	369.44	Start 2605.65 hold at 3150.68 MD
5,756.33	5,664.13	515.94	369.44	Start DLS 11.00 TFO 88.97
6,574.51	6,185.00	525.33	890.23	Start 10282.31 hold at 6574.51 MD
16,856.82	6,185.00	710.72	11,170.86	TD at 16856.82