**Bill Barrett Corporation**

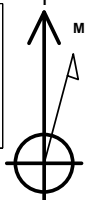
Plan: Plan 1 (RSU Anschutz Fed 4-62-02-4841CS/OH)

Created By: Seth Burstad

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

Project: Weld County, CO NAD 83
Site: RSU Anschutz Fed 4-62-2_1 SE3 Pad
Well: RSU Anschutz Fed 4-62-02-4841CS
Wellbore: OH
Design: Plan 1

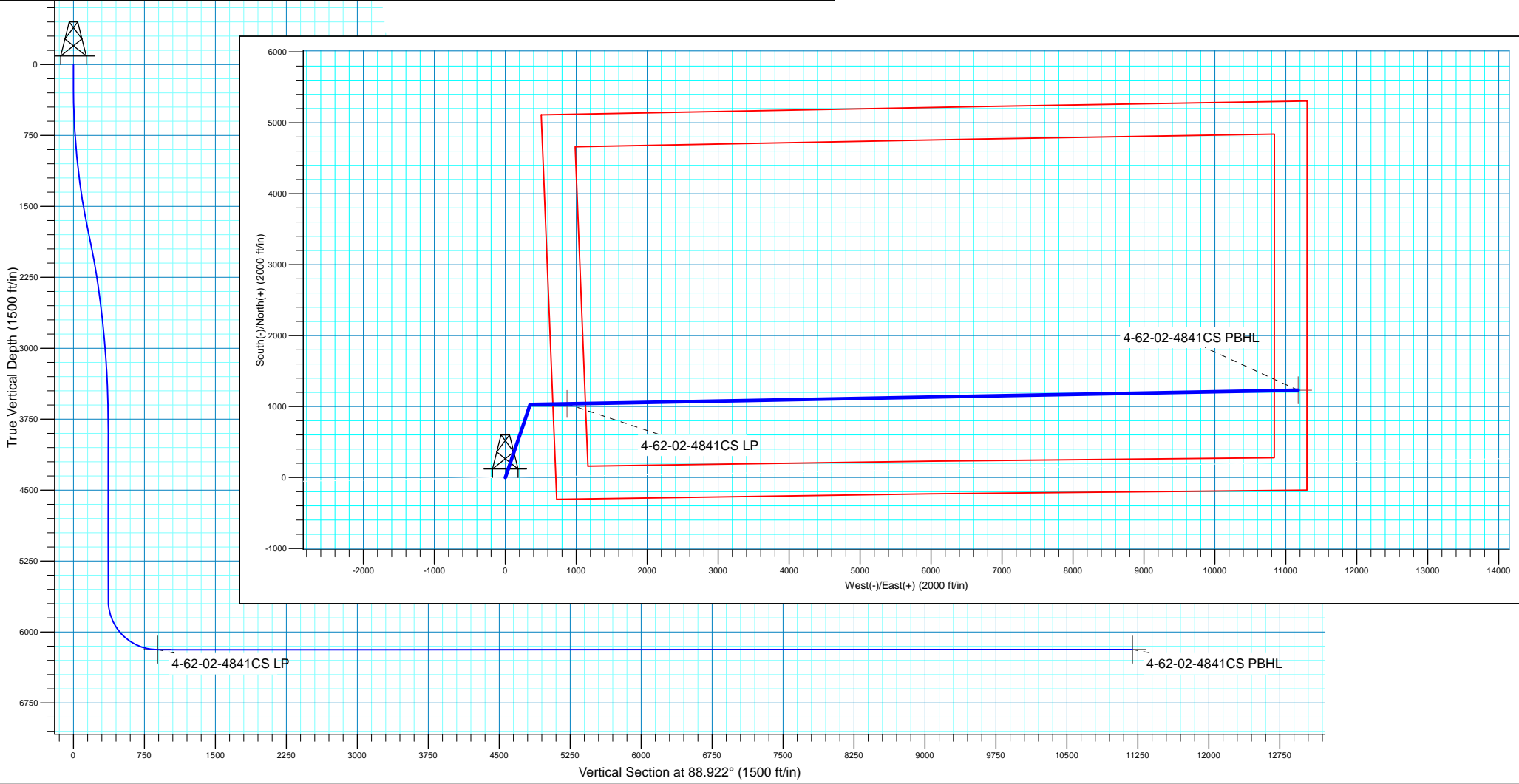


Azimuths to True North
Magnetic North: 8.20°

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



SECTION DETAILS									WELL DETAILS: RSU Anschutz Fed 4-62-02-4841CS			
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	1367156.74	104° 18' 16.751 W
1731.13	30.62	18.761	1659.27	378.29	128.50	2.00	18.76	135.59				
2031.12	30.62	18.761	1917.42	522.98	177.64	0.00	0.00	187.45				
4072.62	0.00	0.000	3863.11	1027.37	348.97	1.50	180.00	368.24				
5874.64	0.00	0.000	5665.13	1027.37	348.97	0.00	0.00	368.24				
6692.82	90.00	88.922	6186.00	1037.17	869.75	11.00	88.92	889.11				
16996.35	90.00	88.922	6186.00	1230.94	11171.46	0.00	0.00	11192.64				





Bill Barrett Corporation

Bill Barrett Corp.

Weld County, CO NAD 83

RSU Anschutz Fed 4-62-2_1 SE3 Pad

RSU Anschutz Fed 4-62-02-4841CS

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 4-62-02-4841CS
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 4-62-02-4841CS	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 4-62-02-4841CS, 313' FSL 711' FEL Sec 3 T4N R62W					
Well Position	+N/-S	44.80 ft	Northing:	1,367,156.74 usft	Latitude:	40° 20' 6.291 N
	+E/-W	0.00 ft	Easting:	3,333,225.23 usft	Longitude:	104° 18' 16.751 W
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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	88.922

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	
1,731.13	30.62	18.761	1,659.27	378.29	128.50	2.00	2.00	0.00	18.76	
2,031.12	30.62	18.761	1,917.42	522.98	177.64	0.00	0.00	0.00	0.00	
4,072.62	0.00	0.000	3,863.11	1,027.37	348.97	1.50	-1.50	0.00	180.00	
5,874.64	0.00	0.000	5,665.13	1,027.37	348.97	0.00	0.00	0.00	0.00	
6,692.82	90.00	88.922	6,186.00	1,037.17	869.75	11.00	11.00	10.87	88.92	
16,996.35	90.00	88.922	6,186.00	1,230.93	11,171.46	0.00	0.00	0.00	0.00	4-62-02-4841CS PBH

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CS
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 4-62-02-4841CS	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	18.761	299.98	1.65	0.56	0.59	2.00	2.00	0.00
400.00	4.00	18.761	399.84	6.61	2.24	2.37	2.00	2.00	0.00
500.00	6.00	18.761	499.45	14.86	5.05	5.33	2.00	2.00	0.00
600.00	8.00	18.761	598.70	26.40	8.97	9.46	2.00	2.00	0.00
700.00	10.00	18.761	697.47	41.21	14.00	14.77	2.00	2.00	0.00
800.00	12.00	18.761	795.62	59.28	20.13	21.25	2.00	2.00	0.00
900.00	14.00	18.761	893.06	80.58	27.37	28.88	2.00	2.00	0.00
1,000.00	16.00	18.761	989.64	105.08	35.69	37.66	2.00	2.00	0.00
1,100.00	18.00	18.761	1,085.27	132.76	45.10	47.59	2.00	2.00	0.00
1,200.00	20.00	18.761	1,179.82	163.59	55.57	58.63	2.00	2.00	0.00
1,300.00	22.00	18.761	1,273.17	197.52	67.09	70.80	2.00	2.00	0.00
1,400.00	24.00	18.761	1,365.21	234.51	79.66	84.06	2.00	2.00	0.00
1,500.00	26.00	18.761	1,455.84	274.53	93.25	98.40	2.00	2.00	0.00
1,600.00	28.00	18.761	1,544.94	317.51	107.85	113.81	2.00	2.00	0.00
1,700.00	30.00	18.761	1,632.39	363.42	123.44	130.26	2.00	2.00	0.00
1,731.13	30.62	18.761	1,659.27	378.29	128.50	135.59	2.00	2.00	0.00
Start 299.99 hold at 1731.13 MD									
1,800.00	30.62	18.761	1,718.53	411.51	139.78	147.50	0.00	0.00	0.00
1,900.00	30.62	18.761	1,804.59	459.74	156.16	164.78	0.00	0.00	0.00
2,000.00	30.62	18.761	1,890.64	507.97	172.54	182.07	0.00	0.00	0.00
2,031.12	30.62	18.761	1,917.42	522.98	177.64	187.45	0.00	0.00	0.00
Start Drop -1.50									
2,100.00	29.59	18.761	1,977.01	555.70	188.76	199.18	1.50	-1.50	0.00
2,200.00	28.09	18.761	2,064.60	601.37	204.27	215.55	1.50	-1.50	0.00
2,300.00	26.59	18.761	2,153.43	644.85	219.04	231.13	1.50	-1.50	0.00
2,400.00	25.09	18.761	2,243.43	686.12	233.06	245.92	1.50	-1.50	0.00
2,500.00	23.59	18.761	2,334.54	725.14	246.31	259.91	1.50	-1.50	0.00
2,600.00	22.09	18.761	2,426.70	761.89	258.80	273.08	1.50	-1.50	0.00
2,700.00	20.59	18.761	2,519.84	796.35	270.50	285.43	1.50	-1.50	0.00
2,800.00	19.09	18.761	2,613.90	828.48	281.41	296.95	1.50	-1.50	0.00
2,900.00	17.59	18.761	2,708.82	858.28	291.53	307.63	1.50	-1.50	0.00
3,000.00	16.09	18.761	2,804.53	885.70	300.85	317.46	1.50	-1.50	0.00
3,100.00	14.59	18.761	2,900.96	910.75	309.36	326.44	1.50	-1.50	0.00
3,200.00	13.09	18.761	2,998.06	933.40	317.05	334.56	1.50	-1.50	0.00
3,300.00	11.59	18.761	3,095.75	953.63	323.92	341.81	1.50	-1.50	0.00
3,400.00	10.09	18.761	3,193.96	971.44	329.97	348.19	1.50	-1.50	0.00
3,500.00	8.59	18.761	3,292.63	986.81	335.19	353.70	1.50	-1.50	0.00
3,600.00	7.09	18.761	3,391.69	999.72	339.58	358.33	1.50	-1.50	0.00
3,700.00	5.59	18.761	3,491.08	1,010.17	343.13	362.07	1.50	-1.50	0.00
3,800.00	4.09	18.761	3,590.72	1,018.16	345.84	364.94	1.50	-1.50	0.00
3,900.00	2.59	18.761	3,690.55	1,023.68	347.72	366.91	1.50	-1.50	0.00
4,000.00	1.09	18.761	3,790.49	1,026.72	348.75	368.00	1.50	-1.50	0.00
4,072.62	0.00	0.000	3,863.11	1,027.37	348.97	368.24	1.50	-1.50	0.00
Start 1802.02 hold at 4072.62 MD									
4,100.00	0.00	0.000	3,890.49	1,027.37	348.97	368.24	0.00	0.00	0.00
4,200.00	0.00	0.000	3,990.49	1,027.37	348.97	368.24	0.00	0.00	0.00
4,300.00	0.00	0.000	4,090.49	1,027.37	348.97	368.24	0.00	0.00	0.00
4,400.00	0.00	0.000	4,190.49	1,027.37	348.97	368.24	0.00	0.00	0.00
4,500.00	0.00	0.000	4,290.49	1,027.37	348.97	368.24	0.00	0.00	0.00
4,600.00	0.00	0.000	4,390.49	1,027.37	348.97	368.24	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CS
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 4-62-02-4841CS	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	4,490.49	1,027.37	348.97	368.24	0.00	0.00	0.00
4,800.00	0.00	0.000	4,590.49	1,027.37	348.97	368.24	0.00	0.00	0.00
4,900.00	0.00	0.000	4,690.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,000.00	0.00	0.000	4,790.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,100.00	0.00	0.000	4,890.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,200.00	0.00	0.000	4,990.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,300.00	0.00	0.000	5,090.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,400.00	0.00	0.000	5,190.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,500.00	0.00	0.000	5,290.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,600.00	0.00	0.000	5,390.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,700.00	0.00	0.000	5,490.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,800.00	0.00	0.000	5,590.49	1,027.37	348.97	368.24	0.00	0.00	0.00
5,874.64	0.00	0.000	5,665.13	1,027.37	348.97	368.24	0.00	0.00	0.00
Start DLS 11.00 TFO 88.92									
5,900.00	2.79	88.922	5,690.48	1,027.38	349.59	368.85	11.00	11.00	0.00
6,000.00	13.79	88.922	5,789.28	1,027.65	363.98	383.25	11.00	11.00	0.00
6,100.00	24.79	88.922	5,883.52	1,028.27	396.96	416.23	11.00	11.00	0.00
6,200.00	35.79	88.922	5,969.74	1,029.22	447.31	466.59	11.00	11.00	0.00
6,300.00	46.79	88.922	6,044.76	1,030.46	513.18	532.48	11.00	11.00	0.00
6,400.00	57.79	88.922	6,105.84	1,031.94	592.16	611.47	11.00	11.00	0.00
6,500.00	68.79	88.922	6,150.72	1,033.62	681.33	700.66	11.00	11.00	0.00
6,600.00	79.79	88.922	6,177.75	1,035.43	777.43	796.77	11.00	11.00	0.00
6,692.82	90.00	88.922	6,186.00	1,037.17	869.75	889.11	11.00	11.00	0.00
Start 10303.53 hold at 6692.82 MD									
6,700.00	90.00	88.922	6,186.00	1,037.30	876.92	896.28	0.00	0.00	0.00
6,800.00	90.00	88.922	6,186.00	1,039.18	976.91	996.28	0.00	0.00	0.00
6,900.00	90.00	88.922	6,186.00	1,041.06	1,076.89	1,096.28	0.00	0.00	0.00
7,000.00	90.00	88.922	6,186.00	1,042.94	1,176.87	1,196.28	0.00	0.00	0.00
7,100.00	90.00	88.922	6,186.00	1,044.82	1,276.85	1,296.28	0.00	0.00	0.00
7,200.00	90.00	88.922	6,186.00	1,046.70	1,376.84	1,396.28	0.00	0.00	0.00
7,300.00	90.00	88.922	6,186.00	1,048.58	1,476.82	1,496.28	0.00	0.00	0.00
7,400.00	90.00	88.922	6,186.00	1,050.46	1,576.80	1,596.28	0.00	0.00	0.00
7,500.00	90.00	88.922	6,186.00	1,052.35	1,676.78	1,696.28	0.00	0.00	0.00
7,600.00	90.00	88.922	6,186.00	1,054.23	1,776.76	1,796.28	0.00	0.00	0.00
7,700.00	90.00	88.922	6,186.00	1,056.11	1,876.75	1,896.28	0.00	0.00	0.00
7,800.00	90.00	88.922	6,186.00	1,057.99	1,976.73	1,996.28	0.00	0.00	0.00
7,900.00	90.00	88.922	6,186.00	1,059.87	2,076.71	2,096.28	0.00	0.00	0.00
8,000.00	90.00	88.922	6,186.00	1,061.75	2,176.69	2,196.28	0.00	0.00	0.00
8,100.00	90.00	88.922	6,186.00	1,063.63	2,276.68	2,296.28	0.00	0.00	0.00
8,200.00	90.00	88.922	6,186.00	1,065.51	2,376.66	2,396.28	0.00	0.00	0.00
8,300.00	90.00	88.922	6,186.00	1,067.39	2,476.64	2,496.28	0.00	0.00	0.00
8,400.00	90.00	88.922	6,186.00	1,069.27	2,576.62	2,596.28	0.00	0.00	0.00
8,500.00	90.00	88.922	6,186.00	1,071.15	2,676.61	2,696.28	0.00	0.00	0.00
8,600.00	90.00	88.922	6,186.00	1,073.03	2,776.59	2,796.28	0.00	0.00	0.00
8,700.00	90.00	88.922	6,186.00	1,074.91	2,876.57	2,896.28	0.00	0.00	0.00
8,800.00	90.00	88.922	6,186.00	1,076.79	2,976.55	2,996.28	0.00	0.00	0.00
8,900.00	90.00	88.922	6,186.00	1,078.67	3,076.53	3,096.28	0.00	0.00	0.00
9,000.00	90.00	88.922	6,186.00	1,080.55	3,176.52	3,196.28	0.00	0.00	0.00
9,100.00	90.00	88.922	6,186.00	1,082.43	3,276.50	3,296.28	0.00	0.00	0.00
9,200.00	90.00	88.922	6,186.00	1,084.32	3,376.48	3,396.28	0.00	0.00	0.00
9,300.00	90.00	88.922	6,186.00	1,086.20	3,476.46	3,496.28	0.00	0.00	0.00
9,400.00	90.00	88.922	6,186.00	1,088.08	3,576.45	3,596.28	0.00	0.00	0.00
9,500.00	90.00	88.922	6,186.00	1,089.96	3,676.43	3,696.28	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CS
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 4-62-02-4841CS	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	88.922	6,186.00	1,091.84	3,776.41	3,796.28	0.00	0.00	0.00
9,700.00	90.00	88.922	6,186.00	1,093.72	3,876.39	3,896.28	0.00	0.00	0.00
9,800.00	90.00	88.922	6,186.00	1,095.60	3,976.38	3,996.28	0.00	0.00	0.00
9,900.00	90.00	88.922	6,186.00	1,097.48	4,076.36	4,096.28	0.00	0.00	0.00
10,000.00	90.00	88.922	6,186.00	1,099.36	4,176.34	4,196.28	0.00	0.00	0.00
10,100.00	90.00	88.922	6,186.00	1,101.24	4,276.32	4,296.28	0.00	0.00	0.00
10,200.00	90.00	88.922	6,186.00	1,103.12	4,376.30	4,396.28	0.00	0.00	0.00
10,300.00	90.00	88.922	6,186.00	1,105.00	4,476.29	4,496.28	0.00	0.00	0.00
10,400.00	90.00	88.922	6,186.00	1,106.88	4,576.27	4,596.28	0.00	0.00	0.00
10,500.00	90.00	88.922	6,186.00	1,108.76	4,676.25	4,696.28	0.00	0.00	0.00
10,600.00	90.00	88.922	6,186.00	1,110.64	4,776.23	4,796.28	0.00	0.00	0.00
10,700.00	90.00	88.922	6,186.00	1,112.52	4,876.22	4,896.28	0.00	0.00	0.00
10,800.00	90.00	88.922	6,186.00	1,114.40	4,976.20	4,996.28	0.00	0.00	0.00
10,900.00	90.00	88.922	6,186.00	1,116.28	5,076.18	5,096.28	0.00	0.00	0.00
11,000.00	90.00	88.922	6,186.00	1,118.17	5,176.16	5,196.28	0.00	0.00	0.00
11,100.00	90.00	88.922	6,186.00	1,120.05	5,276.15	5,296.28	0.00	0.00	0.00
11,200.00	90.00	88.922	6,186.00	1,121.93	5,376.13	5,396.28	0.00	0.00	0.00
11,300.00	90.00	88.922	6,186.00	1,123.81	5,476.11	5,496.28	0.00	0.00	0.00
11,400.00	90.00	88.922	6,186.00	1,125.69	5,576.09	5,596.28	0.00	0.00	0.00
11,500.00	90.00	88.922	6,186.00	1,127.57	5,676.07	5,696.28	0.00	0.00	0.00
11,600.00	90.00	88.922	6,186.00	1,129.45	5,776.06	5,796.28	0.00	0.00	0.00
11,700.00	90.00	88.922	6,186.00	1,131.33	5,876.04	5,896.28	0.00	0.00	0.00
11,800.00	90.00	88.922	6,186.00	1,133.21	5,976.02	5,996.28	0.00	0.00	0.00
11,900.00	90.00	88.922	6,186.00	1,135.09	6,076.00	6,096.28	0.00	0.00	0.00
12,000.00	90.00	88.922	6,186.00	1,136.97	6,175.99	6,196.28	0.00	0.00	0.00
12,100.00	90.00	88.922	6,186.00	1,138.85	6,275.97	6,296.28	0.00	0.00	0.00
12,200.00	90.00	88.922	6,186.00	1,140.73	6,375.95	6,396.28	0.00	0.00	0.00
12,300.00	90.00	88.922	6,186.00	1,142.61	6,475.93	6,496.28	0.00	0.00	0.00
12,400.00	90.00	88.922	6,186.00	1,144.49	6,575.92	6,596.28	0.00	0.00	0.00
12,500.00	90.00	88.922	6,186.00	1,146.37	6,675.90	6,696.28	0.00	0.00	0.00
12,600.00	90.00	88.922	6,186.00	1,148.25	6,775.88	6,796.28	0.00	0.00	0.00
12,700.00	90.00	88.922	6,186.00	1,150.14	6,875.86	6,896.28	0.00	0.00	0.00
12,800.00	90.00	88.922	6,186.00	1,152.02	6,975.84	6,996.28	0.00	0.00	0.00
12,900.00	90.00	88.922	6,186.00	1,153.90	7,075.83	7,096.28	0.00	0.00	0.00
13,000.00	90.00	88.922	6,186.00	1,155.78	7,175.81	7,196.28	0.00	0.00	0.00
13,100.00	90.00	88.922	6,186.00	1,157.66	7,275.79	7,296.28	0.00	0.00	0.00
13,200.00	90.00	88.922	6,186.00	1,159.54	7,375.77	7,396.28	0.00	0.00	0.00
13,300.00	90.00	88.922	6,186.00	1,161.42	7,475.76	7,496.28	0.00	0.00	0.00
13,400.00	90.00	88.922	6,186.00	1,163.30	7,575.74	7,596.28	0.00	0.00	0.00
13,500.00	90.00	88.922	6,186.00	1,165.18	7,675.72	7,696.28	0.00	0.00	0.00
13,600.00	90.00	88.922	6,186.00	1,167.06	7,775.70	7,796.28	0.00	0.00	0.00
13,700.00	90.00	88.922	6,186.00	1,168.94	7,875.69	7,896.28	0.00	0.00	0.00
13,800.00	90.00	88.922	6,186.00	1,170.82	7,975.67	7,996.28	0.00	0.00	0.00
13,900.00	90.00	88.922	6,186.00	1,172.70	8,075.65	8,096.28	0.00	0.00	0.00
14,000.00	90.00	88.922	6,186.00	1,174.58	8,175.63	8,196.28	0.00	0.00	0.00
14,100.00	90.00	88.922	6,186.00	1,176.46	8,275.62	8,296.28	0.00	0.00	0.00
14,200.00	90.00	88.922	6,186.00	1,178.34	8,375.60	8,396.28	0.00	0.00	0.00
14,300.00	90.00	88.922	6,186.00	1,180.22	8,475.58	8,496.28	0.00	0.00	0.00
14,400.00	90.00	88.922	6,186.00	1,182.11	8,575.56	8,596.28	0.00	0.00	0.00
14,500.00	90.00	88.922	6,186.00	1,183.99	8,675.54	8,696.28	0.00	0.00	0.00
14,600.00	90.00	88.922	6,186.00	1,185.87	8,775.53	8,796.28	0.00	0.00	0.00
14,700.00	90.00	88.922	6,186.00	1,187.75	8,875.51	8,896.28	0.00	0.00	0.00
14,800.00	90.00	88.922	6,186.00	1,189.63	8,975.49	8,996.28	0.00	0.00	0.00
14,900.00	90.00	88.922	6,186.00	1,191.51	9,075.47	9,096.28	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CS
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 4-62-02-4841CS	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	88.922	6,186.00	1,193.39	9,175.46	9,196.28	0.00	0.00	0.00
15,100.00	90.00	88.922	6,186.00	1,195.27	9,275.44	9,296.28	0.00	0.00	0.00
15,200.00	90.00	88.922	6,186.00	1,197.15	9,375.42	9,396.28	0.00	0.00	0.00
15,300.00	90.00	88.922	6,186.00	1,199.03	9,475.40	9,496.28	0.00	0.00	0.00
15,400.00	90.00	88.922	6,186.00	1,200.91	9,575.39	9,596.28	0.00	0.00	0.00
15,500.00	90.00	88.922	6,186.00	1,202.79	9,675.37	9,696.28	0.00	0.00	0.00
15,600.00	90.00	88.922	6,186.00	1,204.67	9,775.35	9,796.28	0.00	0.00	0.00
15,700.00	90.00	88.922	6,186.00	1,206.55	9,875.33	9,896.28	0.00	0.00	0.00
15,800.00	90.00	88.922	6,186.00	1,208.43	9,975.31	9,996.28	0.00	0.00	0.00
15,900.00	90.00	88.922	6,186.00	1,210.31	10,075.30	10,096.28	0.00	0.00	0.00
16,000.00	90.00	88.922	6,186.00	1,212.19	10,175.28	10,196.28	0.00	0.00	0.00
16,100.00	90.00	88.922	6,186.00	1,214.08	10,275.26	10,296.28	0.00	0.00	0.00
16,200.00	90.00	88.922	6,186.00	1,215.96	10,375.24	10,396.28	0.00	0.00	0.00
16,300.00	90.00	88.922	6,186.00	1,217.84	10,475.23	10,496.28	0.00	0.00	0.00
16,400.00	90.00	88.922	6,186.00	1,219.72	10,575.21	10,596.28	0.00	0.00	0.00
16,500.00	90.00	88.922	6,186.00	1,221.60	10,675.19	10,696.28	0.00	0.00	0.00
16,600.00	90.00	88.922	6,186.00	1,223.48	10,775.17	10,796.28	0.00	0.00	0.00
16,700.00	90.00	88.922	6,186.00	1,225.36	10,875.16	10,896.28	0.00	0.00	0.00
16,800.00	90.00	88.922	6,186.00	1,227.24	10,975.14	10,996.28	0.00	0.00	0.00
16,900.00	90.00	88.922	6,186.00	1,229.12	11,075.12	11,096.28	0.00	0.00	0.00
16,996.35	90.00	88.922	6,186.00	1,230.93	11,171.46	11,192.64	0.00	0.00	0.00
TD at 16996.35									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
4-62-02-4841CS LP - hit/miss target - Shape - Point	0.00	0.000	6,186.00	1,037.17	869.75	1,368,205.54	3,334,080.92	40° 20' 16.541 N	104° 18' 5.519 W
4-62-02-4841CS PBHL - plan hits target center - Point	0.00	0.000	6,186.00	1,230.93	11,171.46	1,368,538.15	3,344,379.06	40° 20' 18.431 N	104° 15' 52.481 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
1,731.13	1,659.27	378.29	128.50	Start 299.99 hold at 1731.13 MD
2,031.12	1,917.42	522.98	177.64	Start Drop -1.50
4,072.62	3,863.11	1,027.37	348.97	Start 1802.02 hold at 4072.62 MD
5,874.64	5,665.13	1,027.37	348.97	Start DLS 11.00 TFO 88.92
6,692.82	6,186.00	1,037.17	869.75	Start 10303.53 hold at 6692.82 MD
16,996.35	6,186.00	1,230.93	11,171.46	TD at 16996.35