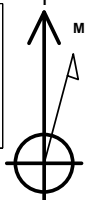
**Bill Barrett Corporation**

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

Project: Weld County, CO NAD 83
Site: RSU Anschutz Fed 4-62-2_1 SE3 Pad
Well: RSU Anschutz Fed 4-62-02-4841CN
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



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

Created By: Seth Burstad

SECTION DETAILS									WELL DETAILS: RSU Anschutz Fed 4-62-02-4841CN			
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	Easting	Latitude
2083.03	37.66	12.014	1950.34	583.82	124.24	2.00	12.01	135.45	1367171.67	3333225.03	40° 20' 6.439 N	104° 18' 16.751 W
2383.04	37.66	12.014	2187.84	763.11	162.39	0.00	0.00	177.04				
4893.75	0.00	0.000	4521.62	1541.54	328.05	1.50	180.00	357.64				
6040.26	0.00	0.000	5668.13	1541.54	328.05	0.00	0.00	357.64				
6858.44	90.00	88.898	6189.00	1551.55	848.82	11.00	88.90	878.51				
17182.74	90.00	88.898	6189.00	1750.05	11171.22	0.00	0.00	11202.81				

True Vertical Depth (1500 ft/in)

South(-)/North(+) (2000 ft/in)

West(-)/East(+) (2000 ft/in)

Vertical Section at 88.898° (1500 ft/in)

4-62-02-4841CN LP

4-62-02-4841CN PBHL



Bill Barrett Corporation

Bill Barrett Corp.

Weld County, CO NAD 83

RSU Anschutz Fed 4-62-2_1 SE3 Pad

RSU Anschutz Fed 4-62-02-4841CN

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 4-62-02-4841CN
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 4-62-02-4841CN	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 4-62-02-4841CN, 328' FSL 711' FEL Sec 3 T4N R62W			
Well Position	+N/-S	59.73 ft	Northing:	1,367,171.68 usft
	+E/-W	0.00 ft	Easting:	3,333,225.03 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	88.898

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	
2,083.03	37.66	12.014	1,950.34	583.82	124.24	2.00	2.00	0.00	12.01	
2,383.04	37.66	12.014	2,187.84	763.11	162.39	0.00	0.00	0.00	0.00	
4,893.75	0.00	0.000	4,521.62	1,541.54	328.05	1.50	-1.50	0.00	180.00	
6,040.26	0.00	0.000	5,668.13	1,541.54	328.05	0.00	0.00	0.00	0.00	
6,858.44	90.00	88.898	6,189.00	1,551.55	848.82	11.00	11.00	10.87	88.90	
17,182.74	90.00	88.898	6,189.00	1,750.05	11,171.22	0.00	0.00	0.00	0.00	4-62-02-4841CN PBI-

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CN
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 4-62-02-4841CN	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	12.014	299.98	1.71	0.36	0.40	2.00	2.00	0.00
400.00	4.00	12.014	399.84	6.83	1.45	1.58	2.00	2.00	0.00
500.00	6.00	12.014	499.45	15.35	3.27	3.56	2.00	2.00	0.00
600.00	8.00	12.014	598.70	27.27	5.80	6.33	2.00	2.00	0.00
700.00	10.00	12.014	697.47	42.57	9.06	9.88	2.00	2.00	0.00
800.00	12.00	12.014	795.62	61.23	13.03	14.21	2.00	2.00	0.00
900.00	14.00	12.014	893.06	83.23	17.71	19.31	2.00	2.00	0.00
1,000.00	16.00	12.014	989.64	108.55	23.10	25.18	2.00	2.00	0.00
1,100.00	18.00	12.014	1,085.27	137.14	29.18	31.82	2.00	2.00	0.00
1,200.00	20.00	12.014	1,179.82	168.98	35.96	39.20	2.00	2.00	0.00
1,300.00	22.00	12.014	1,273.17	204.03	43.42	47.34	2.00	2.00	0.00
1,400.00	24.00	12.014	1,365.21	242.25	51.55	56.20	2.00	2.00	0.00
1,500.00	26.00	12.014	1,455.84	283.58	60.35	65.79	2.00	2.00	0.00
1,600.00	28.00	12.014	1,544.94	327.99	69.80	76.09	2.00	2.00	0.00
1,700.00	30.00	12.014	1,632.39	375.40	79.89	87.09	2.00	2.00	0.00
1,800.00	32.00	12.014	1,718.11	425.78	90.61	98.78	2.00	2.00	0.00
1,900.00	34.00	12.014	1,801.97	479.04	101.94	111.14	2.00	2.00	0.00
2,000.00	36.00	12.014	1,883.88	535.14	113.88	124.15	2.00	2.00	0.00
2,083.03	37.66	12.014	1,950.34	583.82	124.24	135.45	2.00	2.00	0.00
Start 300.01 hold at 2083.03 MD									
2,100.00	37.66	12.014	1,963.77	593.96	126.40	137.80	0.00	0.00	0.00
2,200.00	37.66	12.014	2,042.94	653.72	139.12	151.66	0.00	0.00	0.00
2,300.00	37.66	12.014	2,122.10	713.48	151.83	165.53	0.00	0.00	0.00
2,383.04	37.66	12.014	2,187.84	763.11	162.39	177.04	0.00	0.00	0.00
Start Drop -1.50									
2,400.00	37.41	12.014	2,201.29	773.22	164.55	179.39	1.50	-1.50	0.00
2,500.00	35.91	12.014	2,281.51	831.61	176.97	192.93	1.50	-1.50	0.00
2,600.00	34.41	12.014	2,363.26	887.93	188.96	206.00	1.50	-1.50	0.00
2,700.00	32.91	12.014	2,446.50	942.13	200.49	218.57	1.50	-1.50	0.00
2,800.00	31.41	12.014	2,531.16	994.19	211.57	230.65	1.50	-1.50	0.00
2,900.00	29.91	12.014	2,617.18	1,044.06	222.18	242.22	1.50	-1.50	0.00
3,000.00	28.41	12.014	2,704.51	1,091.71	232.32	253.28	1.50	-1.50	0.00
3,100.00	26.91	12.014	2,793.08	1,137.11	241.98	263.81	1.50	-1.50	0.00
3,200.00	25.41	12.014	2,882.84	1,180.22	251.16	273.81	1.50	-1.50	0.00
3,300.00	23.91	12.014	2,973.72	1,221.02	259.84	283.28	1.50	-1.50	0.00
3,400.00	22.41	12.014	3,065.66	1,259.49	268.03	292.20	1.50	-1.50	0.00
3,500.00	20.91	12.014	3,158.60	1,295.58	275.71	300.57	1.50	-1.50	0.00
3,600.00	19.41	12.014	3,252.47	1,329.28	282.88	308.39	1.50	-1.50	0.00
3,700.00	17.91	12.014	3,347.21	1,360.57	289.54	315.65	1.50	-1.50	0.00
3,800.00	16.41	12.014	3,442.76	1,389.42	295.68	322.35	1.50	-1.50	0.00
3,900.00	14.91	12.014	3,539.05	1,415.82	301.29	328.47	1.50	-1.50	0.00
4,000.00	13.41	12.014	3,636.01	1,439.74	306.39	334.02	1.50	-1.50	0.00
4,100.00	11.91	12.014	3,733.57	1,461.16	310.95	338.99	1.50	-1.50	0.00
4,200.00	10.41	12.014	3,831.68	1,480.09	314.97	343.38	1.50	-1.50	0.00
4,300.00	8.91	12.014	3,930.26	1,496.49	318.46	347.19	1.50	-1.50	0.00
4,400.00	7.41	12.014	4,029.25	1,510.37	321.42	350.41	1.50	-1.50	0.00
4,500.00	5.91	12.014	4,128.57	1,521.71	323.83	353.04	1.50	-1.50	0.00
4,600.00	4.41	12.014	4,228.16	1,530.50	325.70	355.07	1.50	-1.50	0.00
4,700.00	2.91	12.014	4,327.96	1,536.74	327.03	356.52	1.50	-1.50	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CN
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 4-62-02-4841CN	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)
4,800.00	1.41	12.014	4,427.88	1,540.41	327.81	357.38	1.50	-1.50	0.00
4,893.75	0.00	0.000	4,521.62	1,541.54	328.05	357.64	1.50	-1.50	0.00
Start 1146.51 hold at 4893.75 MD									
4,900.00	0.00	0.000	4,527.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,000.00	0.00	0.000	4,627.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,100.00	0.00	0.000	4,727.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,200.00	0.00	0.000	4,827.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,300.00	0.00	0.000	4,927.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,400.00	0.00	0.000	5,027.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,500.00	0.00	0.000	5,127.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,600.00	0.00	0.000	5,227.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,700.00	0.00	0.000	5,327.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,800.00	0.00	0.000	5,427.87	1,541.54	328.05	357.64	0.00	0.00	0.00
5,900.00	0.00	0.000	5,527.87	1,541.54	328.05	357.64	0.00	0.00	0.00
6,000.00	0.00	0.000	5,627.87	1,541.54	328.05	357.64	0.00	0.00	0.00
6,040.26	0.00	0.000	5,668.13	1,541.54	328.05	357.64	0.00	0.00	0.00
Start DLS 11.00 TFO 88.90									
6,100.00	6.57	88.898	5,727.74	1,541.61	331.47	361.06	11.00	11.00	0.00
6,200.00	17.57	88.898	5,825.38	1,542.01	352.35	381.94	11.00	11.00	0.00
6,300.00	28.57	88.898	5,917.24	1,542.76	391.47	421.07	11.00	11.00	0.00
6,400.00	39.57	88.898	5,999.95	1,543.84	447.40	477.01	11.00	11.00	0.00
6,500.00	50.57	88.898	6,070.46	1,545.19	518.07	547.70	11.00	11.00	0.00
6,600.00	61.57	88.898	6,126.19	1,546.79	600.91	630.54	11.00	11.00	0.00
6,700.00	72.57	88.898	6,165.09	1,548.55	692.85	722.50	11.00	11.00	0.00
6,800.00	83.57	88.898	6,185.73	1,550.43	790.52	820.19	11.00	11.00	0.00
6,858.44	90.00	88.898	6,189.00	1,551.55	848.82	878.51	11.00	11.00	0.00
Start 10324.30 hold at 6858.44 MD									
6,900.00	90.00	88.898	6,189.00	1,552.35	890.38	920.07	0.00	0.00	0.00
7,000.00	90.00	88.898	6,189.00	1,554.28	990.36	1,020.07	0.00	0.00	0.00
7,100.00	90.00	88.898	6,189.00	1,556.20	1,090.34	1,120.07	0.00	0.00	0.00
7,200.00	90.00	88.898	6,189.00	1,558.12	1,190.32	1,220.07	0.00	0.00	0.00
7,300.00	90.00	88.898	6,189.00	1,560.04	1,290.30	1,320.07	0.00	0.00	0.00
7,400.00	90.00	88.898	6,189.00	1,561.97	1,390.29	1,420.07	0.00	0.00	0.00
7,500.00	90.00	88.898	6,189.00	1,563.89	1,490.27	1,520.07	0.00	0.00	0.00
7,600.00	90.00	88.898	6,189.00	1,565.81	1,590.25	1,620.07	0.00	0.00	0.00
7,700.00	90.00	88.898	6,189.00	1,567.73	1,690.23	1,720.07	0.00	0.00	0.00
7,800.00	90.00	88.898	6,189.00	1,569.66	1,790.21	1,820.07	0.00	0.00	0.00
7,900.00	90.00	88.898	6,189.00	1,571.58	1,890.19	1,920.07	0.00	0.00	0.00
8,000.00	90.00	88.898	6,189.00	1,573.50	1,990.18	2,020.07	0.00	0.00	0.00
8,100.00	90.00	88.898	6,189.00	1,575.42	2,090.16	2,120.07	0.00	0.00	0.00
8,200.00	90.00	88.898	6,189.00	1,577.35	2,190.14	2,220.07	0.00	0.00	0.00
8,300.00	90.00	88.898	6,189.00	1,579.27	2,290.12	2,320.07	0.00	0.00	0.00
8,400.00	90.00	88.898	6,189.00	1,581.19	2,390.10	2,420.07	0.00	0.00	0.00
8,500.00	90.00	88.898	6,189.00	1,583.11	2,490.08	2,520.07	0.00	0.00	0.00
8,600.00	90.00	88.898	6,189.00	1,585.04	2,590.06	2,620.07	0.00	0.00	0.00
8,700.00	90.00	88.898	6,189.00	1,586.96	2,690.05	2,720.07	0.00	0.00	0.00
8,800.00	90.00	88.898	6,189.00	1,588.88	2,790.03	2,820.07	0.00	0.00	0.00
8,900.00	90.00	88.898	6,189.00	1,590.81	2,890.01	2,920.07	0.00	0.00	0.00
9,000.00	90.00	88.898	6,189.00	1,592.73	2,989.99	3,020.07	0.00	0.00	0.00
9,100.00	90.00	88.898	6,189.00	1,594.65	3,089.97	3,120.07	0.00	0.00	0.00
9,200.00	90.00	88.898	6,189.00	1,596.57	3,189.95	3,220.07	0.00	0.00	0.00
9,300.00	90.00	88.898	6,189.00	1,598.50	3,289.93	3,320.07	0.00	0.00	0.00
9,400.00	90.00	88.898	6,189.00	1,600.42	3,389.92	3,420.07	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CN
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 4-62-02-4841CN	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)
9,500.00	90.00	88.898	6,189.00	1,602.34	3,489.90	3,520.07	0.00	0.00	0.00
9,600.00	90.00	88.898	6,189.00	1,604.26	3,589.88	3,620.07	0.00	0.00	0.00
9,700.00	90.00	88.898	6,189.00	1,606.19	3,689.86	3,720.07	0.00	0.00	0.00
9,800.00	90.00	88.898	6,189.00	1,608.11	3,789.84	3,820.07	0.00	0.00	0.00
9,900.00	90.00	88.898	6,189.00	1,610.03	3,889.82	3,920.07	0.00	0.00	0.00
10,000.00	90.00	88.898	6,189.00	1,611.95	3,989.81	4,020.07	0.00	0.00	0.00
10,100.00	90.00	88.898	6,189.00	1,613.88	4,089.79	4,120.07	0.00	0.00	0.00
10,200.00	90.00	88.898	6,189.00	1,615.80	4,189.77	4,220.07	0.00	0.00	0.00
10,300.00	90.00	88.898	6,189.00	1,617.72	4,289.75	4,320.07	0.00	0.00	0.00
10,400.00	90.00	88.898	6,189.00	1,619.64	4,389.73	4,420.07	0.00	0.00	0.00
10,500.00	90.00	88.898	6,189.00	1,621.57	4,489.71	4,520.07	0.00	0.00	0.00
10,600.00	90.00	88.898	6,189.00	1,623.49	4,589.69	4,620.07	0.00	0.00	0.00
10,700.00	90.00	88.898	6,189.00	1,625.41	4,689.68	4,720.07	0.00	0.00	0.00
10,800.00	90.00	88.898	6,189.00	1,627.33	4,789.66	4,820.07	0.00	0.00	0.00
10,900.00	90.00	88.898	6,189.00	1,629.26	4,889.64	4,920.07	0.00	0.00	0.00
11,000.00	90.00	88.898	6,189.00	1,631.18	4,989.62	5,020.07	0.00	0.00	0.00
11,100.00	90.00	88.898	6,189.00	1,633.10	5,089.60	5,120.07	0.00	0.00	0.00
11,200.00	90.00	88.898	6,189.00	1,635.03	5,189.58	5,220.07	0.00	0.00	0.00
11,300.00	90.00	88.898	6,189.00	1,636.95	5,289.57	5,320.07	0.00	0.00	0.00
11,400.00	90.00	88.898	6,189.00	1,638.87	5,389.55	5,420.07	0.00	0.00	0.00
11,500.00	90.00	88.898	6,189.00	1,640.79	5,489.53	5,520.07	0.00	0.00	0.00
11,600.00	90.00	88.898	6,189.00	1,642.72	5,589.51	5,620.07	0.00	0.00	0.00
11,700.00	90.00	88.898	6,189.00	1,644.64	5,689.49	5,720.07	0.00	0.00	0.00
11,800.00	90.00	88.898	6,189.00	1,646.56	5,789.47	5,820.07	0.00	0.00	0.00
11,900.00	90.00	88.898	6,189.00	1,648.48	5,889.45	5,920.07	0.00	0.00	0.00
12,000.00	90.00	88.898	6,189.00	1,650.41	5,989.44	6,020.07	0.00	0.00	0.00
12,100.00	90.00	88.898	6,189.00	1,652.33	6,089.42	6,120.07	0.00	0.00	0.00
12,200.00	90.00	88.898	6,189.00	1,654.25	6,189.40	6,220.07	0.00	0.00	0.00
12,300.00	90.00	88.898	6,189.00	1,656.17	6,289.38	6,320.07	0.00	0.00	0.00
12,400.00	90.00	88.898	6,189.00	1,658.10	6,389.36	6,420.07	0.00	0.00	0.00
12,500.00	90.00	88.898	6,189.00	1,660.02	6,489.34	6,520.07	0.00	0.00	0.00
12,600.00	90.00	88.898	6,189.00	1,661.94	6,589.32	6,620.07	0.00	0.00	0.00
12,700.00	90.00	88.898	6,189.00	1,663.86	6,689.31	6,720.07	0.00	0.00	0.00
12,800.00	90.00	88.898	6,189.00	1,665.79	6,789.29	6,820.07	0.00	0.00	0.00
12,900.00	90.00	88.898	6,189.00	1,667.71	6,889.27	6,920.07	0.00	0.00	0.00
13,000.00	90.00	88.898	6,189.00	1,669.63	6,989.25	7,020.07	0.00	0.00	0.00
13,100.00	90.00	88.898	6,189.00	1,671.55	7,089.23	7,120.07	0.00	0.00	0.00
13,200.00	90.00	88.898	6,189.00	1,673.48	7,189.21	7,220.07	0.00	0.00	0.00
13,300.00	90.00	88.898	6,189.00	1,675.40	7,289.20	7,320.07	0.00	0.00	0.00
13,400.00	90.00	88.898	6,189.00	1,677.32	7,389.18	7,420.07	0.00	0.00	0.00
13,500.00	90.00	88.898	6,189.00	1,679.25	7,489.16	7,520.07	0.00	0.00	0.00
13,600.00	90.00	88.898	6,189.00	1,681.17	7,589.14	7,620.07	0.00	0.00	0.00
13,700.00	90.00	88.898	6,189.00	1,683.09	7,689.12	7,720.07	0.00	0.00	0.00
13,800.00	90.00	88.898	6,189.00	1,685.01	7,789.10	7,820.07	0.00	0.00	0.00
13,900.00	90.00	88.898	6,189.00	1,686.94	7,889.08	7,920.07	0.00	0.00	0.00
14,000.00	90.00	88.898	6,189.00	1,688.86	7,989.07	8,020.07	0.00	0.00	0.00
14,100.00	90.00	88.898	6,189.00	1,690.78	8,089.05	8,120.07	0.00	0.00	0.00
14,200.00	90.00	88.898	6,189.00	1,692.70	8,189.03	8,220.07	0.00	0.00	0.00
14,300.00	90.00	88.898	6,189.00	1,694.63	8,289.01	8,320.07	0.00	0.00	0.00
14,400.00	90.00	88.898	6,189.00	1,696.55	8,388.99	8,420.07	0.00	0.00	0.00
14,500.00	90.00	88.898	6,189.00	1,698.47	8,488.97	8,520.07	0.00	0.00	0.00
14,600.00	90.00	88.898	6,189.00	1,700.39	8,588.96	8,620.07	0.00	0.00	0.00
14,700.00	90.00	88.898	6,189.00	1,702.32	8,688.94	8,720.07	0.00	0.00	0.00
14,800.00	90.00	88.898	6,189.00	1,704.24	8,788.92	8,820.07	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well RSU Anschutz Fed 4-62-02-4841CN
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 4-62-02-4841CN	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)	
14,900.00	90.00	88.898	6,189.00	1,706.16	8,888.90	8,920.07	0.00	0.00	0.00	
15,000.00	90.00	88.898	6,189.00	1,708.08	8,988.88	9,020.07	0.00	0.00	0.00	
15,100.00	90.00	88.898	6,189.00	1,710.01	9,088.86	9,120.07	0.00	0.00	0.00	
15,200.00	90.00	88.898	6,189.00	1,711.93	9,188.84	9,220.07	0.00	0.00	0.00	
15,300.00	90.00	88.898	6,189.00	1,713.85	9,288.83	9,320.07	0.00	0.00	0.00	
15,400.00	90.00	88.898	6,189.00	1,715.77	9,388.81	9,420.07	0.00	0.00	0.00	
15,500.00	90.00	88.898	6,189.00	1,717.70	9,488.79	9,520.07	0.00	0.00	0.00	
15,600.00	90.00	88.898	6,189.00	1,719.62	9,588.77	9,620.07	0.00	0.00	0.00	
15,700.00	90.00	88.898	6,189.00	1,721.54	9,688.75	9,720.07	0.00	0.00	0.00	
15,800.00	90.00	88.898	6,189.00	1,723.46	9,788.73	9,820.07	0.00	0.00	0.00	
15,900.00	90.00	88.898	6,189.00	1,725.39	9,888.72	9,920.07	0.00	0.00	0.00	
16,000.00	90.00	88.898	6,189.00	1,727.31	9,988.70	10,020.07	0.00	0.00	0.00	
16,100.00	90.00	88.898	6,189.00	1,729.23	10,088.68	10,120.07	0.00	0.00	0.00	
16,200.00	90.00	88.898	6,189.00	1,731.16	10,188.66	10,220.07	0.00	0.00	0.00	
16,300.00	90.00	88.898	6,189.00	1,733.08	10,288.64	10,320.07	0.00	0.00	0.00	
16,400.00	90.00	88.898	6,189.00	1,735.00	10,388.62	10,420.07	0.00	0.00	0.00	
16,500.00	90.00	88.898	6,189.00	1,736.92	10,488.60	10,520.07	0.00	0.00	0.00	
16,600.00	90.00	88.898	6,189.00	1,738.85	10,588.59	10,620.07	0.00	0.00	0.00	
16,700.00	90.00	88.898	6,189.00	1,740.77	10,688.57	10,720.07	0.00	0.00	0.00	
16,800.00	90.00	88.898	6,189.00	1,742.69	10,788.55	10,820.07	0.00	0.00	0.00	
16,900.00	90.00	88.898	6,189.00	1,744.61	10,888.53	10,920.07	0.00	0.00	0.00	
17,000.00	90.00	88.898	6,189.00	1,746.54	10,988.51	11,020.07	0.00	0.00	0.00	
17,100.00	90.00	88.898	6,189.00	1,748.46	11,088.49	11,120.07	0.00	0.00	0.00	
17,182.74	90.00	88.898	6,189.00	1,750.05	11,171.22	11,202.81	0.00	0.00	0.00	
TD at 17182.74										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
4-62-02-4841CN LP	0.00	0.000	6,189.00	1,551.55	848.82	1,368,734.53	3,334,052.86	40° 20' 21.772 N	104° 18' 5.789 W	
- plan hits target center										
- Point										
4-62-02-4841CN PBHL	0.00	0.000	6,189.00	1,750.05	11,171.22	1,369,072.15	3,344,371.62	40° 20' 23.708 N	104° 15' 52.481 W	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.00	200.00	0.00	0.00	Start Build 2.00	
2,083.03	1,950.34	583.82	124.24	Start 300.01 hold at 2083.03 MD	
2,383.04	2,187.84	763.11	162.39	Start Drop -1.50	
4,893.75	4,521.62	1,541.54	328.05	Start 1146.51 hold at 4893.75 MD	
6,040.26	5,668.13	1,541.54	328.05	Start DLS 11.00 TFO 88.90	
6,858.44	6,189.00	1,551.55	848.82	Start 10324.30 hold at 6858.44 MD	
17,182.74	6,189.00	1,750.05	11,171.22	TD at 17182.74	