



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: Anschutz State 5-62-22. 23 SWSW Pad  
Well: Anschutz State Fed 5-62-27-0263C2  
Wellbore: OH  
Design: Plan 1



Azimuths to True North  
Magnetic North: 8.26°



Magnetic Field  
Strength: 52634.1nT  
Dip Angle: 67.02°  
Date: 11/11/2015  
Model: BGGM2015

Plan: Plan 1 (Anschutz State Fed 5-62-27-0263C2/OH)

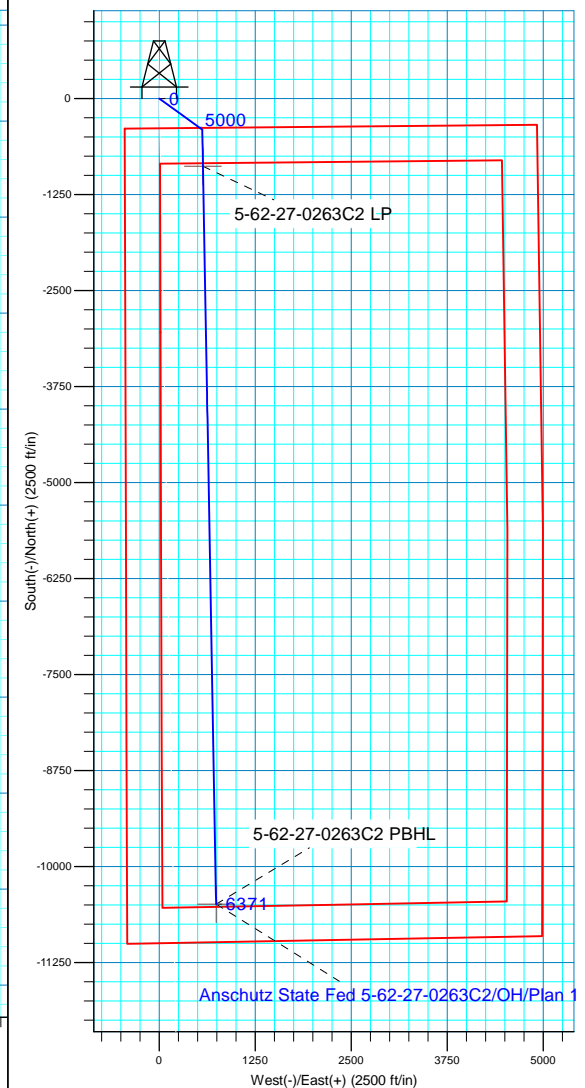
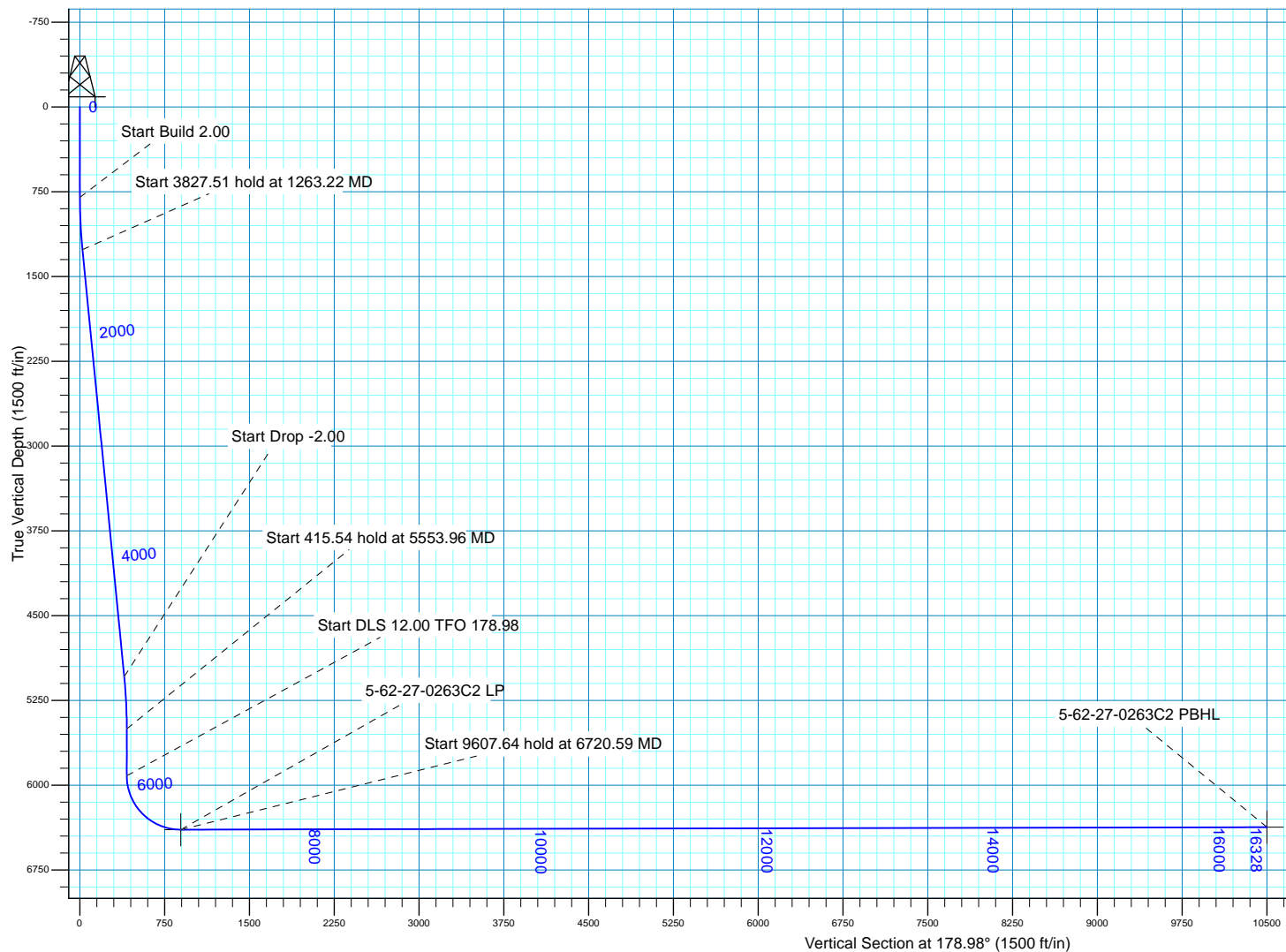
Created By: Seth Burstad Date: 11-11-2015

### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00
1263.22	9.26	125.80	1261.21	-21.86	30.31	2.00	125.80	22.40
5090.73	9.26	125.80	5038.79	-382.33	530.07	0.00	0.00	391.70
5553.96	0.00	0.00	5500.00	-404.19	560.38	2.00	180.00	414.10
5969.50	0.00	0.00	5915.54	-404.19	560.38	0.00	0.00	414.10
6720.59	90.13	178.98	6393.00	-882.67	568.92	12.00	178.98	892.66
16328.22	90.13	178.98	6371.00	-10488.75	740.27	0.00	0.00	10500.27

### WELL DETAILS: Anschutz State Fed 5-62-27-0263C2

		GL 4680' & KB 16' @ 4696.00ft		4680.00	Longitude
+N/-S	+E/-W	Northing	Easting	Latitude	
0.00	0.00	1383138.39	3329293.25	40° 22' 44.731 N	104° 19' 4.771 W





## **Bill Barrett Corp.**

Weld County, CO NAD 83  
Anchut State 5-62-22\_23 SWSW Pad  
Anschutz State Fed 5-62-27-0263C2

OH

Plan: Plan 1

## **Standard Planning Report**

11 November, 2015



<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz State Fed 5-62-27-0263C2
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Site:</b>	Anchutz State 5-62-22_23 SWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz State Fed 5-62-27-0263C2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1		

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

Site Anchutz State 5-62-22_23 SWSW Pad, Site Center: 5-62-27-0164B2B					
Site Position:		Northing:	1,383,138.54 usft	Latitude:	40° 22' 44.738 N
From:	Lat/Long	Easting:	3,329,248.39 usft	Longitude:	104° 19' 5.351 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.76 °

Well	Anschutz State Fed 5-62-27-0263C2, 388' FSL 445' FWL Sec 22 T5N R62W					
Well Position	+N/-S	-0.75 ft	Northing:	1,383,138.39 usft	Latitude:	40° 22' 44.731 N
	+E/-W	44.85 ft	Easting:	3,329,293.25 usft	Longitude:	104° 19' 4.771 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,680.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2015	11/11/2015	8.26	67.02	52,634

<b>Design</b>	Plan 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	178.98

<b>Plan Sections</b>										
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,263.22	9.26	125.80	1,261.21	-21.86	30.31	2.00	2.00	0.00	125.80	
5,090.73	9.26	125.80	5,038.79	-382.33	530.07	0.00	0.00	0.00	0.00	
5,553.96	0.00	0.00	5,500.00	-404.19	560.38	2.00	-2.00	0.00	180.00	
5,969.50	0.00	0.00	5,915.54	-404.19	560.38	0.00	0.00	0.00	0.00	
6,720.59	90.13	178.98	6,393.00	-882.67	568.92	12.00	12.00	23.83	178.98	
16,328.22	90.13	178.98	6,371.00	-10,488.75	740.27	0.00	0.00	0.00	0.00	5-62-27-0263C2 PBH

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz State Fed 5-62-27-0263C2
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Site:</b>	Anchutz State 5-62-22_23 SWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz State Fed 5-62-27-0263C2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
900.00	2.00	125.80	899.98	-1.02	1.42	1.05	2.00	2.00	0.00
1,000.00	4.00	125.80	999.84	-4.08	5.66	4.18	2.00	2.00	0.00
1,100.00	6.00	125.80	1,099.45	-9.18	12.73	9.41	2.00	2.00	0.00
1,200.00	8.00	125.80	1,198.70	-16.31	22.61	16.71	2.00	2.00	0.00
1,263.22	9.26	125.80	1,261.21	-21.86	30.31	22.40	2.00	2.00	0.00
<b>Start 3827.51 hold at 1263.22 MD</b>									
1,300.00	9.26	125.80	1,297.50	-25.32	35.11	25.94	0.00	0.00	0.00
1,400.00	9.26	125.80	1,396.20	-34.74	48.17	35.59	0.00	0.00	0.00
1,500.00	9.26	125.80	1,494.90	-44.16	61.22	45.24	0.00	0.00	0.00
1,600.00	9.26	125.80	1,593.59	-53.58	74.28	54.89	0.00	0.00	0.00
1,700.00	9.26	125.80	1,692.29	-63.00	87.34	64.54	0.00	0.00	0.00
1,800.00	9.26	125.80	1,790.98	-72.41	100.40	74.19	0.00	0.00	0.00
1,900.00	9.26	125.80	1,889.68	-81.83	113.45	83.84	0.00	0.00	0.00
2,000.00	9.26	125.80	1,988.37	-91.25	126.51	93.49	0.00	0.00	0.00
2,100.00	9.26	125.80	2,087.07	-100.67	139.57	103.14	0.00	0.00	0.00
2,200.00	9.26	125.80	2,185.76	-110.08	152.62	112.78	0.00	0.00	0.00
2,300.00	9.26	125.80	2,284.46	-119.50	165.68	122.43	0.00	0.00	0.00
2,400.00	9.26	125.80	2,383.16	-128.92	178.74	132.08	0.00	0.00	0.00
2,500.00	9.26	125.80	2,481.85	-138.34	191.80	141.73	0.00	0.00	0.00
2,600.00	9.26	125.80	2,580.55	-147.76	204.85	151.38	0.00	0.00	0.00
2,700.00	9.26	125.80	2,679.24	-157.17	217.91	161.03	0.00	0.00	0.00
2,800.00	9.26	125.80	2,777.94	-166.59	230.97	170.68	0.00	0.00	0.00
2,900.00	9.26	125.80	2,876.63	-176.01	244.02	180.33	0.00	0.00	0.00
3,000.00	9.26	125.80	2,975.33	-185.43	257.08	189.97	0.00	0.00	0.00
3,100.00	9.26	125.80	3,074.02	-194.85	270.14	199.62	0.00	0.00	0.00
3,200.00	9.26	125.80	3,172.72	-204.26	283.20	209.27	0.00	0.00	0.00
3,300.00	9.26	125.80	3,271.42	-213.68	296.25	218.92	0.00	0.00	0.00
3,400.00	9.26	125.80	3,370.11	-223.10	309.31	228.57	0.00	0.00	0.00
3,500.00	9.26	125.80	3,468.81	-232.52	322.37	238.22	0.00	0.00	0.00
3,600.00	9.26	125.80	3,567.50	-241.93	335.42	247.87	0.00	0.00	0.00
3,700.00	9.26	125.80	3,666.20	-251.35	348.48	257.52	0.00	0.00	0.00
3,800.00	9.26	125.80	3,764.89	-260.77	361.54	267.16	0.00	0.00	0.00
3,900.00	9.26	125.80	3,863.59	-270.19	374.60	276.81	0.00	0.00	0.00
4,000.00	9.26	125.80	3,962.28	-279.61	387.65	286.46	0.00	0.00	0.00
4,100.00	9.26	125.80	4,060.98	-289.02	400.71	296.11	0.00	0.00	0.00
4,200.00	9.26	125.80	4,159.68	-298.44	413.77	305.76	0.00	0.00	0.00
4,300.00	9.26	125.80	4,258.37	-307.86	426.82	315.41	0.00	0.00	0.00
4,400.00	9.26	125.80	4,357.07	-317.28	439.88	325.06	0.00	0.00	0.00
4,500.00	9.26	125.80	4,455.76	-326.70	452.94	334.71	0.00	0.00	0.00
4,600.00	9.26	125.80	4,554.46	-336.11	466.00	344.35	0.00	0.00	0.00
4,700.00	9.26	125.80	4,653.15	-345.53	479.05	354.00	0.00	0.00	0.00
4,743.41	9.26	125.80	4,696.00	-349.62	484.72	358.19	0.00	0.00	0.00
<b>BASE OF FOX HILLS</b>									

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz State Fed 5-62-27-0263C2
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Site:</b>	Anchutz State 5-62-22_23 SWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz State Fed 5-62-27-0263C2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	9.26	125.80	4,751.85	-354.95	492.11	363.65	0.00	0.00	0.00
4,900.00	9.26	125.80	4,850.54	-364.37	505.17	373.30	0.00	0.00	0.00
5,000.00	9.26	125.80	4,949.24	-373.78	518.22	382.95	0.00	0.00	0.00
5,090.73	9.26	125.80	5,038.79	-382.33	530.07	391.70	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
5,100.00	9.08	125.80	5,047.94	-383.19	531.27	392.59	2.00	-2.00	0.00
5,200.00	7.08	125.80	5,146.94	-391.41	542.67	401.01	2.00	-2.00	0.00
5,271.50	5.65	125.80	5,218.00	-396.05	549.10	405.76	2.00	-2.00	0.00
<b>SHANNON</b>									
5,300.00	5.08	125.80	5,246.37	-397.61	551.26	407.36	2.00	-2.00	0.00
5,400.00	3.08	125.80	5,346.12	-401.77	557.03	411.62	2.00	-2.00	0.00
5,500.00	1.08	125.80	5,446.04	-403.89	559.97	413.80	2.00	-2.00	0.00
5,553.96	0.00	0.00	5,500.00	-404.19	560.38	414.10	2.00	-2.00	0.00
<b>Start 415.54 hold at 5553.96 MD</b>									
5,600.00	0.00	0.00	5,546.04	-404.19	560.38	414.10	0.00	0.00	0.00
5,700.00	0.00	0.00	5,646.04	-404.19	560.38	414.10	0.00	0.00	0.00
5,800.00	0.00	0.00	5,746.04	-404.19	560.38	414.10	0.00	0.00	0.00
5,900.00	0.00	0.00	5,846.04	-404.19	560.38	414.10	0.00	0.00	0.00
5,969.50	0.00	0.00	5,915.54	-404.19	560.38	414.10	0.00	0.00	0.00
<b>Start DLS 12.00 TFO 178.98</b>									
6,000.00	3.66	178.98	5,946.02	-405.16	560.40	415.08	12.00	12.00	0.00
6,100.00	15.66	178.98	6,044.42	-421.91	560.70	431.83	12.00	12.00	0.00
6,140.60	20.53	178.98	6,083.00	-434.51	560.92	444.43	12.00	12.00	0.00
<b>SHARON SPRINGS</b>									
6,200.00	27.66	178.98	6,137.19	-458.75	561.35	468.67	12.00	12.00	0.00
6,253.39	34.07	178.98	6,183.00	-486.12	561.84	496.04	12.00	12.00	0.00
<b>NIOBRARA</b>									
6,300.00	39.66	178.98	6,220.27	-514.06	562.34	523.99	12.00	12.00	0.00
6,400.00	51.66	178.98	6,290.04	-585.44	563.61	595.38	12.00	12.00	0.00
6,500.00	63.66	178.98	6,343.43	-669.76	565.12	679.72	12.00	12.00	0.00
6,564.29	71.38	178.98	6,368.00	-729.12	566.18	739.08	12.00	12.00	0.00
<b>TOP C CHALK TARGET</b>									
6,573.98	72.54	178.98	6,371.00	-738.32	566.34	748.29	12.00	12.00	0.00
<b>TD (HORIZONTAL)</b>									
6,600.00	75.66	178.98	6,378.13	-763.34	566.79	773.31	12.00	12.00	0.00
6,700.00	87.66	178.98	6,392.61	-862.09	568.55	872.07	12.00	12.00	0.00
6,717.35	89.74	178.98	6,393.00	-879.43	568.86	889.42	12.00	12.00	0.00
<b>LANDING POINT</b>									
6,720.59	90.13	178.98	6,393.00	-882.67	568.92	892.66	12.00	12.00	0.00
<b>Start 9607.64 hold at 6720.59 MD</b>									
6,800.00	90.13	178.98	6,392.82	-962.07	570.33	972.07	0.00	0.00	0.00
6,900.00	90.13	178.98	6,392.59	-1,062.05	572.11	1,072.07	0.00	0.00	0.00
7,000.00	90.13	178.98	6,392.36	-1,162.03	573.90	1,172.07	0.00	0.00	0.00
7,100.00	90.13	178.98	6,392.13	-1,262.02	575.68	1,272.07	0.00	0.00	0.00
7,200.00	90.13	178.98	6,391.91	-1,362.00	577.47	1,372.07	0.00	0.00	0.00
7,300.00	90.13	178.98	6,391.68	-1,461.99	579.25	1,472.07	0.00	0.00	0.00
7,400.00	90.13	178.98	6,391.45	-1,561.97	581.03	1,572.07	0.00	0.00	0.00
7,500.00	90.13	178.98	6,391.22	-1,661.95	582.82	1,672.07	0.00	0.00	0.00
7,600.00	90.13	178.98	6,390.99	-1,761.94	584.60	1,772.06	0.00	0.00	0.00
7,700.00	90.13	178.98	6,390.76	-1,861.92	586.38	1,872.06	0.00	0.00	0.00
7,800.00	90.13	178.98	6,390.53	-1,961.91	588.17	1,972.06	0.00	0.00	0.00
7,900.00	90.13	178.98	6,390.30	-2,061.89	589.95	2,072.06	0.00	0.00	0.00
8,000.00	90.13	178.98	6,390.07	-2,161.87	591.73	2,172.06	0.00	0.00	0.00

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz State Fed 5-62-27-0263C2
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Site:</b>	Anschutz State 5-62-22_23 SWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz State Fed 5-62-27-0263C2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
8,100.00	90.13	178.98	6,389.84	-2,261.86	593.52	2,272.06	0.00	0.00	0.00
8,200.00	90.13	178.98	6,389.62	-2,361.84	595.30	2,372.06	0.00	0.00	0.00
8,300.00	90.13	178.98	6,389.39	-2,461.82	597.08	2,472.06	0.00	0.00	0.00
8,400.00	90.13	178.98	6,389.16	-2,561.81	598.87	2,572.06	0.00	0.00	0.00
8,500.00	90.13	178.98	6,388.93	-2,661.79	600.65	2,672.06	0.00	0.00	0.00
8,600.00	90.13	178.98	6,388.70	-2,761.78	602.43	2,772.06	0.00	0.00	0.00
8,700.00	90.13	178.98	6,388.47	-2,861.76	604.22	2,872.06	0.00	0.00	0.00
8,800.00	90.13	178.98	6,388.24	-2,961.74	606.00	2,972.06	0.00	0.00	0.00
8,900.00	90.13	178.98	6,388.01	-3,061.73	607.78	3,072.06	0.00	0.00	0.00
9,000.00	90.13	178.98	6,387.78	-3,161.71	609.57	3,172.06	0.00	0.00	0.00
9,100.00	90.13	178.98	6,387.55	-3,261.69	611.35	3,272.06	0.00	0.00	0.00
9,200.00	90.13	178.98	6,387.33	-3,361.68	613.14	3,372.06	0.00	0.00	0.00
9,300.00	90.13	178.98	6,387.10	-3,461.66	614.92	3,472.06	0.00	0.00	0.00
9,400.00	90.13	178.98	6,386.87	-3,561.65	616.70	3,572.06	0.00	0.00	0.00
9,500.00	90.13	178.98	6,386.64	-3,661.63	618.49	3,672.06	0.00	0.00	0.00
9,600.00	90.13	178.98	6,386.41	-3,761.61	620.27	3,772.06	0.00	0.00	0.00
9,700.00	90.13	178.98	6,386.18	-3,861.60	622.05	3,872.06	0.00	0.00	0.00
9,800.00	90.13	178.98	6,385.95	-3,961.58	623.84	3,972.06	0.00	0.00	0.00
9,900.00	90.13	178.98	6,385.72	-4,061.57	625.62	4,072.06	0.00	0.00	0.00
10,000.00	90.13	178.98	6,385.49	-4,161.55	627.40	4,172.06	0.00	0.00	0.00
10,100.00	90.13	178.98	6,385.26	-4,261.53	629.19	4,272.06	0.00	0.00	0.00
10,200.00	90.13	178.98	6,385.04	-4,361.52	630.97	4,372.06	0.00	0.00	0.00
10,300.00	90.13	178.98	6,384.81	-4,461.50	632.75	4,472.06	0.00	0.00	0.00
10,400.00	90.13	178.98	6,384.58	-4,561.48	634.54	4,572.06	0.00	0.00	0.00
10,500.00	90.13	178.98	6,384.35	-4,661.47	636.32	4,672.06	0.00	0.00	0.00
10,600.00	90.13	178.98	6,384.12	-4,761.45	638.10	4,772.06	0.00	0.00	0.00
10,700.00	90.13	178.98	6,383.89	-4,861.44	639.89	4,872.06	0.00	0.00	0.00
10,800.00	90.13	178.98	6,383.66	-4,961.42	641.67	4,972.06	0.00	0.00	0.00
10,900.00	90.13	178.98	6,383.43	-5,061.40	643.45	5,072.06	0.00	0.00	0.00
11,000.00	90.13	178.98	6,383.20	-5,161.39	645.24	5,172.06	0.00	0.00	0.00
11,100.00	90.13	178.98	6,382.97	-5,261.37	647.02	5,272.06	0.00	0.00	0.00
11,200.00	90.13	178.98	6,382.74	-5,361.36	648.81	5,372.06	0.00	0.00	0.00
11,300.00	90.13	178.98	6,382.52	-5,461.34	650.59	5,472.06	0.00	0.00	0.00
11,400.00	90.13	178.98	6,382.29	-5,561.32	652.37	5,572.05	0.00	0.00	0.00
11,500.00	90.13	178.98	6,382.06	-5,661.31	654.16	5,672.05	0.00	0.00	0.00
11,600.00	90.13	178.98	6,381.83	-5,761.29	655.94	5,772.05	0.00	0.00	0.00
11,700.00	90.13	178.98	6,381.60	-5,861.27	657.72	5,872.05	0.00	0.00	0.00
11,800.00	90.13	178.98	6,381.37	-5,961.26	659.51	5,972.05	0.00	0.00	0.00
11,900.00	90.13	178.98	6,381.14	-6,061.24	661.29	6,072.05	0.00	0.00	0.00
12,000.00	90.13	178.98	6,380.91	-6,161.23	663.07	6,172.05	0.00	0.00	0.00
12,100.00	90.13	178.98	6,380.68	-6,261.21	664.86	6,272.05	0.00	0.00	0.00
12,200.00	90.13	178.98	6,380.45	-6,361.19	666.64	6,372.05	0.00	0.00	0.00
12,300.00	90.13	178.98	6,380.23	-6,461.18	668.42	6,472.05	0.00	0.00	0.00
12,400.00	90.13	178.98	6,380.00	-6,561.16	670.21	6,572.05	0.00	0.00	0.00
12,500.00	90.13	178.98	6,379.77	-6,661.15	671.99	6,672.05	0.00	0.00	0.00
12,600.00	90.13	178.98	6,379.54	-6,761.13	673.77	6,772.05	0.00	0.00	0.00
12,700.00	90.13	178.98	6,379.31	-6,861.11	675.56	6,872.05	0.00	0.00	0.00
12,800.00	90.13	178.98	6,379.08	-6,961.10	677.34	6,972.05	0.00	0.00	0.00
12,900.00	90.13	178.98	6,378.85	-7,061.08	679.12	7,072.05	0.00	0.00	0.00
13,000.00	90.13	178.98	6,378.62	-7,161.06	680.91	7,172.05	0.00	0.00	0.00
13,100.00	90.13	178.98	6,378.39	-7,261.05	682.69	7,272.05	0.00	0.00	0.00
13,200.00	90.13	178.98	6,378.16	-7,361.03	684.48	7,372.05	0.00	0.00	0.00
13,300.00	90.13	178.98	6,377.94	-7,461.02	686.26	7,472.05	0.00	0.00	0.00
13,400.00	90.13	178.98	6,377.71	-7,561.00	688.04	7,572.05	0.00	0.00	0.00

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz State Fed 5-62-27-0263C2
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Site:</b>	Anchutz State 5-62-22_23 SWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz State Fed 5-62-27-0263C2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
13,500.00	90.13	178.98	6,377.48	-7,660.98	689.83	7,672.05	0.00	0.00	0.00
13,600.00	90.13	178.98	6,377.25	-7,760.97	691.61	7,772.05	0.00	0.00	0.00
13,700.00	90.13	178.98	6,377.02	-7,860.95	693.39	7,872.05	0.00	0.00	0.00
13,800.00	90.13	178.98	6,376.79	-7,960.94	695.18	7,972.05	0.00	0.00	0.00
13,900.00	90.13	178.98	6,376.56	-8,060.92	696.96	8,072.05	0.00	0.00	0.00
14,000.00	90.13	178.98	6,376.33	-8,160.90	698.74	8,172.05	0.00	0.00	0.00
14,100.00	90.13	178.98	6,376.10	-8,260.89	700.53	8,272.05	0.00	0.00	0.00
14,200.00	90.13	178.98	6,375.87	-8,360.87	702.31	8,372.05	0.00	0.00	0.00
14,300.00	90.13	178.98	6,375.65	-8,460.85	704.09	8,472.05	0.00	0.00	0.00
14,400.00	90.13	178.98	6,375.42	-8,560.84	705.88	8,572.05	0.00	0.00	0.00
14,500.00	90.13	178.98	6,375.19	-8,660.82	707.66	8,672.05	0.00	0.00	0.00
14,600.00	90.13	178.98	6,374.96	-8,760.81	709.44	8,772.05	0.00	0.00	0.00
14,700.00	90.13	178.98	6,374.73	-8,860.79	711.23	8,872.05	0.00	0.00	0.00
14,800.00	90.13	178.98	6,374.50	-8,960.77	713.01	8,972.05	0.00	0.00	0.00
14,900.00	90.13	178.98	6,374.27	-9,060.76	714.79	9,072.05	0.00	0.00	0.00
15,000.00	90.13	178.98	6,374.04	-9,160.74	716.58	9,172.05	0.00	0.00	0.00
15,100.00	90.13	178.98	6,373.81	-9,260.72	718.36	9,272.05	0.00	0.00	0.00
15,200.00	90.13	178.98	6,373.58	-9,360.71	720.15	9,372.05	0.00	0.00	0.00
15,300.00	90.13	178.98	6,373.35	-9,460.69	721.93	9,472.04	0.00	0.00	0.00
15,400.00	90.13	178.98	6,373.13	-9,560.68	723.71	9,572.04	0.00	0.00	0.00
15,500.00	90.13	178.98	6,372.90	-9,660.66	725.50	9,672.04	0.00	0.00	0.00
15,600.00	90.13	178.98	6,372.67	-9,760.64	727.28	9,772.04	0.00	0.00	0.00
15,700.00	90.13	178.98	6,372.44	-9,860.63	729.06	9,872.04	0.00	0.00	0.00
15,800.00	90.13	178.98	6,372.21	-9,960.61	730.85	9,972.04	0.00	0.00	0.00
15,900.00	90.13	178.98	6,371.98	-10,060.60	732.63	10,072.04	0.00	0.00	0.00
16,000.00	90.13	178.98	6,371.75	-10,160.58	734.41	10,172.04	0.00	0.00	0.00
16,100.00	90.13	178.98	6,371.52	-10,260.56	736.20	10,272.04	0.00	0.00	0.00
16,200.00	90.13	178.98	6,371.29	-10,360.55	737.98	10,372.04	0.00	0.00	0.00
16,300.00	90.13	178.98	6,371.06	-10,460.53	739.76	10,472.04	0.00	0.00	0.00
16,328.22	90.13	178.98	6,371.00	-10,488.75	740.27	10,500.26	0.00	0.00	0.00
TD at 16328.23									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
5-62-27-0263C2 PBHL - hit/miss target - Shape - Point	0.00	0.00	6,371.00	-10,488.75	740.27	1,372,660.46	3,330,173.26	40° 21' 1.080 N	104° 18' 55.210 W
5-62-27-0263C2 LP - plan hits target center - Point	0.00	0.00	6,393.00	-882.66	568.92	1,382,263.39	3,329,873.88	40° 22' 36.008 N	104° 18' 57.420 W

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz State Fed 5-62-27-0263C2
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4680' & KB 16' @ 4696.00ft
<b>Site:</b>	Anchutz State 5-62-22_23 SWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz State Fed 5-62-27-0263C2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,743.41	4,696.00	BASE OF FOX HILLS		0.00	
5,271.50	5,218.00	SHANNON		0.00	
6,140.60	6,083.00	SHARON SPRINGS		0.00	
6,253.39	6,183.00	NIOBRARA		0.00	
6,564.29	6,368.00	TOP C CHALK TARGET		0.00	
6,573.98	6,371.00	TD (HORIZONTAL)		0.00	
6,717.35	6,393.00	LANDING POINT		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
800.00	800.00	0.00	0.00	Start Build 2.00	
1,263.22	1,261.21	-21.86	30.31	Start 3827.51 hold at 1263.22 MD	
5,090.73	5,038.79	-382.33	530.07	Start Drop -2.00	
5,553.96	5,500.00	-404.19	560.38	Start 415.54 hold at 5553.96 MD	
5,969.50	5,915.54	-404.19	560.38	Start DLS 12.00 TFO 178.98	
6,720.59	6,393.00	-882.67	568.92	Start 9607.64 hold at 6720.59 MD	
16,328.22	6,371.00	-10,488.75	740.27	TD at 16328.23	