

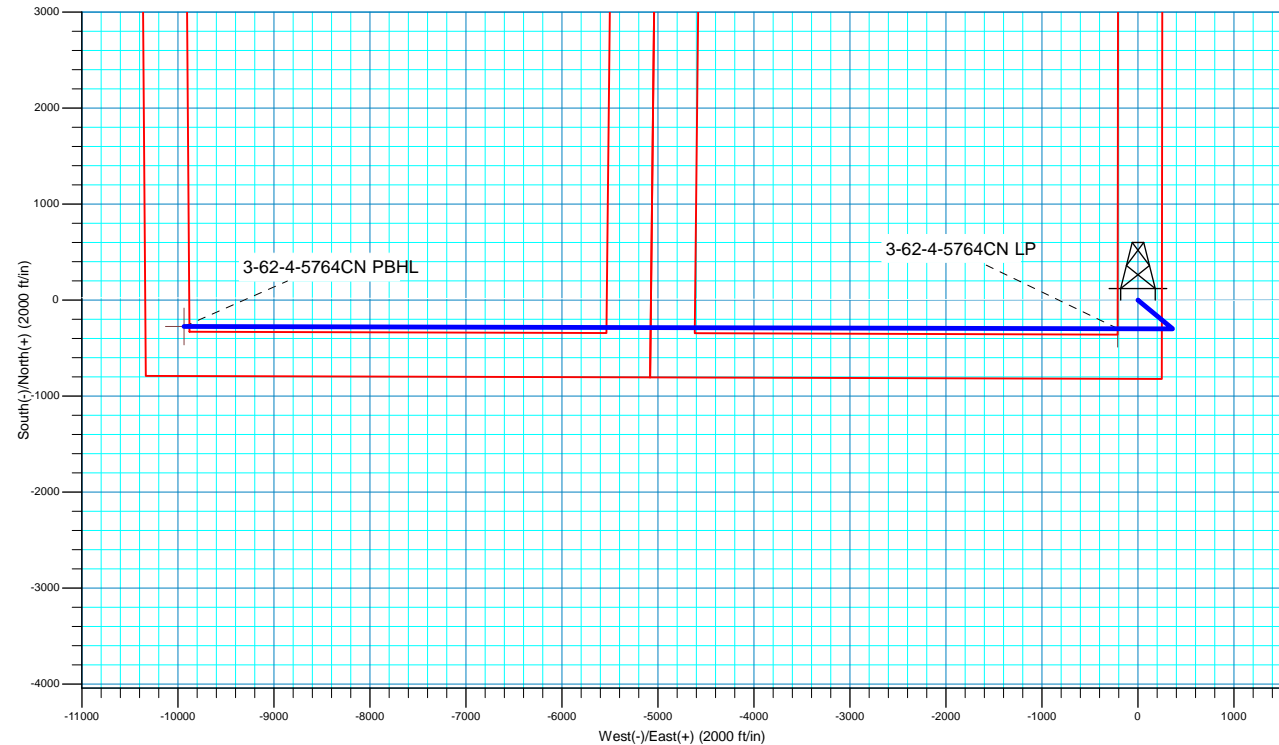
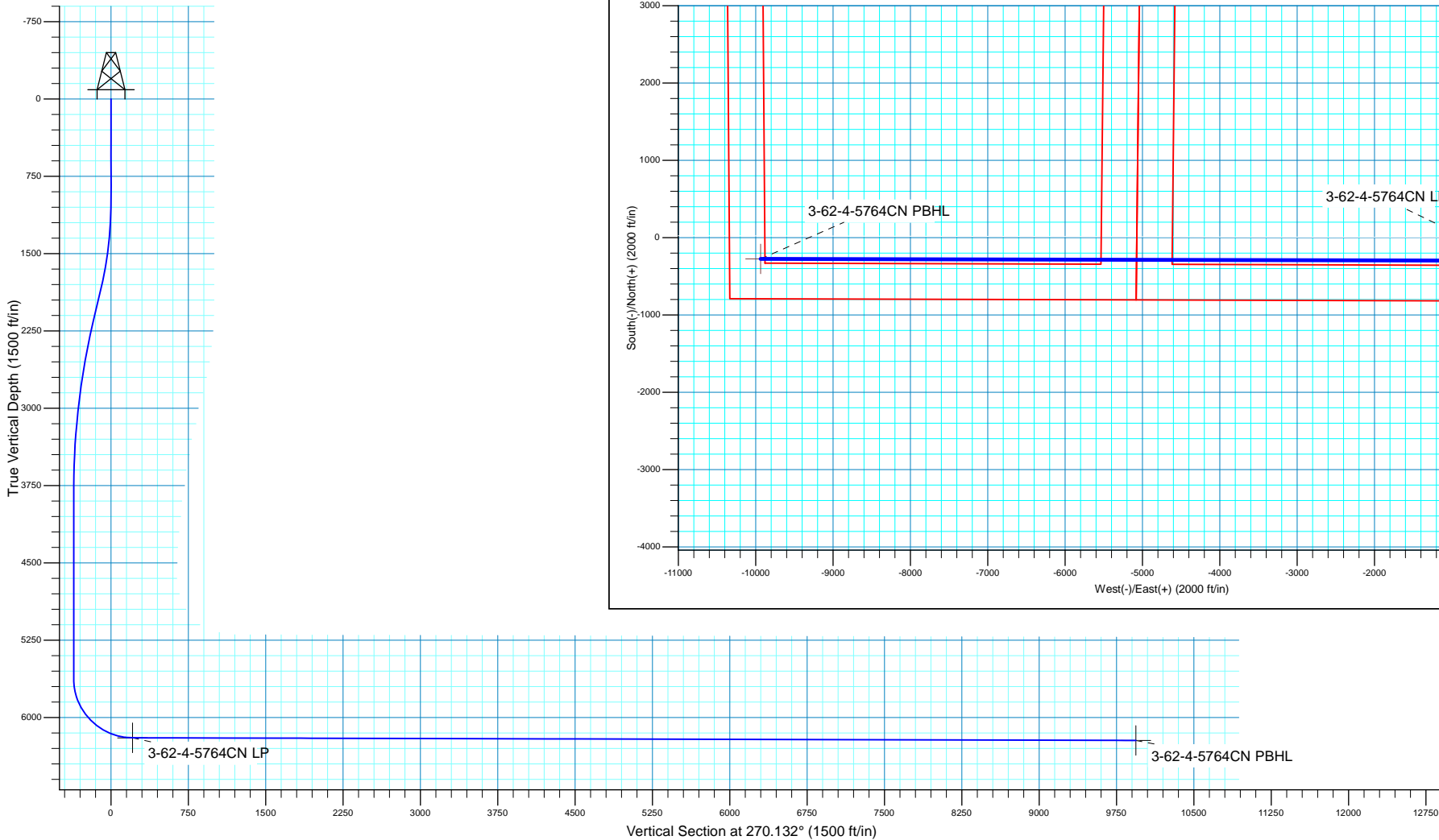


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	0.00
1855.66	17.11	129.610	1843.00	-80.87	97.72	2.00	129.61	-97.90
2155.97	17.11	129.610	2130.01	-137.21	165.80	0.00	0.00	-166.11
3867.29	0.00	0.000	3816.00	-298.94	361.23	1.00	180.00	-361.92
5674.33	0.00	0.000	5623.04	-298.94	361.23	0.00	0.00	-361.92
6572.80	89.85	270.132	6196.00	-297.62	-210.19	10.00	270.13	209.51
16300.55	89.85	270.132	6222.00	-275.21	-9937.88	0.00	0.00	9937.22

WELL DETAILS: Anschutz Equus Farm 3-62-4-5764CN

		GL 4591.4' & KB 20' @ 4611.40ft		4591.40		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1336099.22	3329293.88	40° 14' 59.921 N	104° 19' 12.850 W	





Bill Barrett Corporation

Bill Barrett Corp.

Weld County, CO NAD 83

Anschutz Equus Farms 3-62-4_5 SESE Pad

Anschutz Equus Farm 3-62-4-5764CN

OH

Plan: Plan 1

Standard Planning Report

06 September, 2017



Scientific Drilling

www.scientificdrilling.com



Database:	Casper District	Local Co-ordinate Reference:	Well Anschutz Equus Farm 3-62-4-5764CN
Company:	Bill Barrett Corp.	TVD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Site:	Anschutz Equus Farms 3-62-4_5 SESE Pad	North Reference:	True
Well:	Anschutz Equus Farm 3-62-4-5764CN	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						Anschutz Equus Farms 3-62-4_5 SESE Pad, Site Center : Anschutz Equus Farm 3-62-4-4148C											
Site Position:			Northing:			1,336,129.47 usft			Latitude:			40° 15' 0.220 N					
From:			Lat/Long			Easting:			3,329,293.49 usft			Longitude:			104° 19' 12.850 W		
Position Uncertainty:			0.00 ft			Slot Radius:			13.200 in			Grid Convergence:			0.76 °		

Well	Anschutz Equus Farm 3-62-4-5764CN, 820' FSL 250' FEL Sec 4 T3N R62W					
Well Position	+N/-S	-30.25 ft	Northing:	1,336,099.22 usft	Latitude:	40° 14' 59.921 N
	+E/-W	0.00 ft	Easting:	3,329,293.89 usft	Longitude:	104° 19' 12.850 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,591.40 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/6/2017	8.27	66.92	52,359

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	270.132

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	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,855.66	17.11	129.610	1,843.00	-80.87	97.72	2.00	2.00	0.00	129.61	
2,155.97	17.11	129.610	2,130.01	-137.21	165.80	0.00	0.00	0.00	0.00	
3,867.29	0.00	0.000	3,816.00	-298.94	361.23	1.00	-1.00	0.00	180.00	
5,674.33	0.00	0.000	5,623.04	-298.94	361.23	0.00	0.00	0.00	0.00	
6,572.80	89.85	270.132	6,196.00	-297.62	-210.19	10.00	10.00	-10.00	270.13	
16,300.55	89.85	270.132	6,222.00	-275.21	-9,937.88	0.00	0.00	0.00	0.00	3-62-4-5764CN PBHL

Database:	Casper District	Local Co-ordinate Reference:	Well Anschutz Equus Farm 3-62-4-5764CN
Company:	Bill Barrett Corp.	TVD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Site:	Anschutz Equus Farms 3-62-4_5 SESE Pad	North Reference:	True
Well:	Anschutz Equus Farm 3-62-4-5764CN	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
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	2.00	129.610	1,099.98	-1.11	1.34	-1.35	2.00	2.00	0.00
1,200.00	4.00	129.610	1,199.84	-4.45	5.38	-5.39	2.00	2.00	0.00
1,300.00	6.00	129.610	1,299.45	-10.01	12.09	-12.11	2.00	2.00	0.00
1,400.00	8.00	129.610	1,398.70	-17.78	21.48	-21.52	2.00	2.00	0.00
1,500.00	10.00	129.610	1,497.47	-27.75	33.53	-33.59	2.00	2.00	0.00
1,600.00	12.00	129.610	1,595.62	-39.91	48.23	-48.32	2.00	2.00	0.00
1,700.00	14.00	129.610	1,693.06	-54.25	65.56	-65.68	2.00	2.00	0.00
1,800.00	16.00	129.610	1,789.64	-70.75	85.50	-85.66	2.00	2.00	0.00
1,855.66	17.11	129.610	1,843.00	-80.87	97.72	-97.90	2.00	2.00	0.00
Start 300.31 hold at 1855.66 MD									
1,900.00	17.11	129.610	1,885.37	-89.18	107.77	-107.97	0.00	0.00	0.00
2,000.00	17.11	129.610	1,980.94	-107.95	130.44	-130.69	0.00	0.00	0.00
2,100.00	17.11	129.610	2,076.52	-126.71	153.11	-153.40	0.00	0.00	0.00
2,155.97	17.11	129.610	2,130.01	-137.21	165.80	-166.11	0.00	0.00	0.00
Start Drop -1.00									
2,200.00	16.67	129.610	2,172.14	-145.36	175.65	-175.99	1.00	-1.00	0.00
2,300.00	15.67	129.610	2,268.18	-163.12	197.11	-197.49	1.00	-1.00	0.00
2,400.00	14.67	129.610	2,364.69	-179.81	217.28	-217.69	1.00	-1.00	0.00
2,500.00	13.67	129.610	2,461.65	-195.42	236.14	-236.59	1.00	-1.00	0.00
2,600.00	12.67	129.610	2,559.01	-209.95	253.70	-254.18	1.00	-1.00	0.00
2,700.00	11.67	129.610	2,656.76	-223.39	269.94	-270.45	1.00	-1.00	0.00
2,800.00	10.67	129.610	2,754.87	-235.75	284.87	-285.41	1.00	-1.00	0.00
2,900.00	9.67	129.610	2,853.29	-247.01	298.47	-299.04	1.00	-1.00	0.00
3,000.00	8.67	129.610	2,952.01	-257.17	310.76	-311.35	1.00	-1.00	0.00
3,100.00	7.67	129.610	3,051.00	-266.23	321.71	-322.32	1.00	-1.00	0.00
3,200.00	6.67	129.610	3,150.21	-274.19	331.33	-331.96	1.00	-1.00	0.00
3,300.00	5.67	129.610	3,249.63	-281.05	339.61	-340.26	1.00	-1.00	0.00
3,400.00	4.67	129.610	3,349.22	-286.80	346.56	-347.22	1.00	-1.00	0.00
3,500.00	3.67	129.610	3,448.96	-291.44	352.16	-352.83	1.00	-1.00	0.00
3,600.00	2.67	129.610	3,548.80	-294.97	356.43	-357.11	1.00	-1.00	0.00
3,700.00	1.67	129.610	3,648.73	-297.38	359.35	-360.03	1.00	-1.00	0.00
3,800.00	0.67	129.610	3,748.71	-298.69	360.93	-361.61	1.00	-1.00	0.00
3,867.29	0.00	0.000	3,816.00	-298.94	361.23	-361.92	1.00	-1.00	0.00
Start 1807.04 hold at 3867.29 MD									
3,900.00	0.00	0.000	3,848.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,000.00	0.00	0.000	3,948.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,100.00	0.00	0.000	4,048.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,200.00	0.00	0.000	4,148.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,300.00	0.00	0.000	4,248.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,400.00	0.00	0.000	4,348.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,500.00	0.00	0.000	4,448.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,600.00	0.00	0.000	4,548.71	-298.94	361.23	-361.92	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well Anschutz Equus Farm 3-62-4-5764CN
Company:	Bill Barrett Corp.	TVD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Site:	Anschutz Equus Farms 3-62-4_5 SESE Pad	North Reference:	True
Well:	Anschutz Equus Farm 3-62-4-5764CN	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	4,648.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,800.00	0.00	0.000	4,748.71	-298.94	361.23	-361.92	0.00	0.00	0.00
4,900.00	0.00	0.000	4,848.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,000.00	0.00	0.000	4,948.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,100.00	0.00	0.000	5,048.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,200.00	0.00	0.000	5,148.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,300.00	0.00	0.000	5,248.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,400.00	0.00	0.000	5,348.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,500.00	0.00	0.000	5,448.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,600.00	0.00	0.000	5,548.71	-298.94	361.23	-361.92	0.00	0.00	0.00
5,674.33	0.00	0.000	5,623.04	-298.94	361.23	-361.92	0.00	0.00	0.00
Start DLS 10.00 TFO 270.13									
5,700.00	2.57	270.132	5,648.70	-298.94	360.66	-361.34	10.00	10.00	0.00
5,800.00	12.57	270.132	5,747.70	-298.91	347.50	-348.19	10.00	10.00	0.00
5,900.00	22.57	270.132	5,842.92	-298.84	317.36	-318.05	10.00	10.00	0.00
6,000.00	32.57	270.132	5,931.45	-298.73	271.14	-271.83	10.00	10.00	0.00
6,100.00	42.57	270.132	6,010.62	-298.59	210.25	-210.94	10.00	10.00	0.00
6,200.00	52.57	270.132	6,078.00	-298.42	136.54	-137.23	10.00	10.00	0.00
6,300.00	62.57	270.132	6,131.57	-298.23	52.24	-52.93	10.00	10.00	0.00
6,400.00	72.57	270.132	6,169.68	-298.02	-40.07	39.38	10.00	10.00	0.00
6,500.00	82.57	270.132	6,191.18	-297.79	-137.60	136.91	10.00	10.00	0.00
6,572.80	89.85	270.132	6,196.00	-297.62	-210.19	209.51	10.00	10.00	0.00
Start 9727.74 hold at 6572.80 MD									
6,600.00	89.85	270.132	6,196.07	-297.56	-237.39	236.71	0.00	0.00	0.00
6,700.00	89.85	270.132	6,196.34	-297.33	-337.39	336.71	0.00	0.00	0.00
6,800.00	89.85	270.132	6,196.60	-297.10	-437.39	436.71	0.00	0.00	0.00
6,900.00	89.85	270.132	6,196.87	-296.87	-537.39	536.71	0.00	0.00	0.00
7,000.00	89.85	270.132	6,197.14	-296.64	-637.39	636.70	0.00	0.00	0.00
7,100.00	89.85	270.132	6,197.41	-296.41	-737.39	736.70	0.00	0.00	0.00
7,200.00	89.85	270.132	6,197.67	-296.18	-837.39	836.70	0.00	0.00	0.00
7,300.00	89.85	270.132	6,197.94	-295.95	-937.39	936.70	0.00	0.00	0.00
7,400.00	89.85	270.132	6,198.21	-295.72	-1,037.39	1,036.70	0.00	0.00	0.00
7,500.00	89.85	270.132	6,198.47	-295.49	-1,137.39	1,136.70	0.00	0.00	0.00
7,600.00	89.85	270.132	6,198.74	-295.26	-1,237.39	1,236.70	0.00	0.00	0.00
7,700.00	89.85	270.132	6,199.01	-295.03	-1,337.39	1,336.70	0.00	0.00	0.00
7,800.00	89.85	270.132	6,199.28	-294.80	-1,437.39	1,436.70	0.00	0.00	0.00
7,900.00	89.85	270.132	6,199.54	-294.57	-1,537.38	1,536.70	0.00	0.00	0.00
8,000.00	89.85	270.132	6,199.81	-294.34	-1,637.38	1,636.70	0.00	0.00	0.00
8,100.00	89.85	270.132	6,200.08	-294.11	-1,737.38	1,736.70	0.00	0.00	0.00
8,200.00	89.85	270.132	6,200.35	-293.88	-1,837.38	1,836.70	0.00	0.00	0.00
8,300.00	89.85	270.132	6,200.61	-293.64	-1,937.38	1,936.70	0.00	0.00	0.00
8,400.00	89.85	270.132	6,200.88	-293.41	-2,037.38	2,036.70	0.00	0.00	0.00
8,500.00	89.85	270.132	6,201.15	-293.18	-2,137.38	2,136.70	0.00	0.00	0.00
8,600.00	89.85	270.132	6,201.42	-292.95	-2,237.38	2,236.70	0.00	0.00	0.00
8,700.00	89.85	270.132	6,201.68	-292.72	-2,337.38	2,336.70	0.00	0.00	0.00
8,800.00	89.85	270.132	6,201.95	-292.49	-2,437.38	2,436.70	0.00	0.00	0.00
8,900.00	89.85	270.132	6,202.22	-292.26	-2,537.38	2,536.70	0.00	0.00	0.00
9,000.00	89.85	270.132	6,202.48	-292.03	-2,637.38	2,636.70	0.00	0.00	0.00
9,100.00	89.85	270.132	6,202.75	-291.80	-2,737.38	2,736.70	0.00	0.00	0.00
9,200.00	89.85	270.132	6,203.02	-291.57	-2,837.38	2,836.70	0.00	0.00	0.00
9,300.00	89.85	270.132	6,203.29	-291.34	-2,937.38	2,936.70	0.00	0.00	0.00
9,400.00	89.85	270.132	6,203.55	-291.11	-3,037.38	3,036.70	0.00	0.00	0.00
9,500.00	89.85	270.132	6,203.82	-290.88	-3,137.37	3,136.70	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well Anschutz Equus Farm 3-62-4-5764CN
Company:	Bill Barrett Corp.	TVD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Site:	Anschutz Equus Farms 3-62-4_5 SESE Pad	North Reference:	True
Well:	Anschutz Equus Farm 3-62-4-5764CN	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	89.85	270.132	6,204.09	-290.65	-3,237.37	3,236.70	0.00	0.00	0.00
9,700.00	89.85	270.132	6,204.36	-290.42	-3,337.37	3,336.70	0.00	0.00	0.00
9,800.00	89.85	270.132	6,204.62	-290.19	-3,437.37	3,436.70	0.00	0.00	0.00
9,900.00	89.85	270.132	6,204.89	-289.96	-3,537.37	3,536.69	0.00	0.00	0.00
10,000.00	89.85	270.132	6,205.16	-289.73	-3,637.37	3,636.69	0.00	0.00	0.00
10,100.00	89.85	270.132	6,205.42	-289.50	-3,737.37	3,736.69	0.00	0.00	0.00
10,200.00	89.85	270.132	6,205.69	-289.27	-3,837.37	3,836.69	0.00	0.00	0.00
10,300.00	89.85	270.132	6,205.96	-289.04	-3,937.37	3,936.69	0.00	0.00	0.00
10,400.00	89.85	270.132	6,206.23	-288.81	-4,037.37	4,036.69	0.00	0.00	0.00
10,500.00	89.85	270.132	6,206.49	-288.58	-4,137.37	4,136.69	0.00	0.00	0.00
10,600.00	89.85	270.132	6,206.76	-288.35	-4,237.37	4,236.69	0.00	0.00	0.00
10,700.00	89.85	270.132	6,207.03	-288.12	-4,337.37	4,336.69	0.00	0.00	0.00
10,800.00	89.85	270.132	6,207.30	-287.89	-4,437.37	4,436.69	0.00	0.00	0.00
10,900.00	89.85	270.132	6,207.56	-287.66	-4,537.37	4,536.69	0.00	0.00	0.00
11,000.00	89.85	270.132	6,207.83	-287.43	-4,637.37	4,636.69	0.00	0.00	0.00
11,100.00	89.85	270.132	6,208.10	-287.19	-4,737.36	4,736.69	0.00	0.00	0.00
11,200.00	89.85	270.132	6,208.37	-286.96	-4,837.36	4,836.69	0.00	0.00	0.00
11,300.00	89.85	270.132	6,208.63	-286.73	-4,937.36	4,936.69	0.00	0.00	0.00
11,400.00	89.85	270.132	6,208.90	-286.50	-5,037.36	5,036.69	0.00	0.00	0.00
11,500.00	89.85	270.132	6,209.17	-286.27	-5,137.36	5,136.69	0.00	0.00	0.00
11,600.00	89.85	270.132	6,209.43	-286.04	-5,237.36	5,236.69	0.00	0.00	0.00
11,700.00	89.85	270.132	6,209.70	-285.81	-5,337.36	5,336.69	0.00	0.00	0.00
11,800.00	89.85	270.132	6,209.97	-285.58	-5,437.36	5,436.69	0.00	0.00	0.00
11,900.00	89.85	270.132	6,210.24	-285.35	-5,537.36	5,536.69	0.00	0.00	0.00
12,000.00	89.85	270.132	6,210.50	-285.12	-5,637.36	5,636.69	0.00	0.00	0.00
12,100.00	89.85	270.132	6,210.77	-284.89	-5,737.36	5,736.69	0.00	0.00	0.00
12,200.00	89.85	270.132	6,211.04	-284.66	-5,837.36	5,836.69	0.00	0.00	0.00
12,300.00	89.85	270.132	6,211.31	-284.43	-5,937.36	5,936.69	0.00	0.00	0.00
12,400.00	89.85	270.132	6,211.57	-284.20	-6,037.36	6,036.69	0.00	0.00	0.00
12,500.00	89.85	270.132	6,211.84	-283.97	-6,137.36	6,136.69	0.00	0.00	0.00
12,600.00	89.85	270.132	6,212.11	-283.74	-6,237.36	6,236.69	0.00	0.00	0.00
12,700.00	89.85	270.132	6,212.38	-283.51	-6,337.35	6,336.68	0.00	0.00	0.00
12,800.00	89.85	270.132	6,212.64	-283.28	-6,437.35	6,436.68	0.00	0.00	0.00
12,900.00	89.85	270.132	6,212.91	-283.05	-6,537.35	6,536.68	0.00	0.00	0.00
13,000.00	89.85	270.132	6,213.18	-282.82	-6,637.35	6,636.68	0.00	0.00	0.00
13,100.00	89.85	270.132	6,213.44	-282.59	-6,737.35	6,736.68	0.00	0.00	0.00
13,200.00	89.85	270.132	6,213.71	-282.36	-6,837.35	6,836.68	0.00	0.00	0.00
13,300.00	89.85	270.132	6,213.98	-282.13	-6,937.35	6,936.68	0.00	0.00	0.00
13,400.00	89.85	270.132	6,214.25	-281.90	-7,037.35	7,036.68	0.00	0.00	0.00
13,500.00	89.85	270.132	6,214.51	-281.67	-7,137.35	7,136.68	0.00	0.00	0.00
13,600.00	89.85	270.132	6,214.78	-281.44	-7,237.35	7,236.68	0.00	0.00	0.00
13,700.00	89.85	270.132	6,215.05	-281.21	-7,337.35	7,336.68	0.00	0.00	0.00
13,800.00	89.85	270.132	6,215.32	-280.98	-7,437.35	7,436.68	0.00	0.00	0.00
13,900.00	89.85	270.132	6,215.58	-280.74	-7,537.35	7,536.68	0.00	0.00	0.00
14,000.00	89.85	270.132	6,215.85	-280.51	-7,637.35	7,636.68	0.00	0.00	0.00
14,100.00	89.85	270.132	6,216.12	-280.28	-7,737.35	7,736.68	0.00	0.00	0.00
14,200.00	89.85	270.132	6,216.38	-280.05	-7,837.35	7,836.68	0.00	0.00	0.00
14,300.00	89.85	270.132	6,216.65	-279.82	-7,937.34	7,936.68	0.00	0.00	0.00
14,400.00	89.85	270.132	6,216.92	-279.59	-8,037.34	8,036.68	0.00	0.00	0.00
14,500.00	89.85	270.132	6,217.19	-279.36	-8,137.34	8,136.68	0.00	0.00	0.00
14,600.00	89.85	270.132	6,217.45	-279.13	-8,237.34	8,236.68	0.00	0.00	0.00
14,700.00	89.85	270.132	6,217.72	-278.90	-8,337.34	8,336.68	0.00	0.00	0.00
14,800.00	89.85	270.132	6,217.99	-278.67	-8,437.34	8,436.68	0.00	0.00	0.00
14,900.00	89.85	270.132	6,218.26	-278.44	-8,537.34	8,536.68	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well Anschutz Equus Farm 3-62-4-5764CN
Company:	Bill Barrett Corp.	TVD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4591.4' & KB 20' @ 4611.40ft
Site:	Anschutz Equus Farms 3-62-4_5 SESE Pad	North Reference:	True
Well:	Anschutz Equus Farm 3-62-4-5764CN	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	89.85	270.132	6,218.52	-278.21	-8,637.34	8,636.68	0.00	0.00	0.00
15,100.00	89.85	270.132	6,218.79	-277.98	-8,737.34	8,736.68	0.00	0.00	0.00
15,200.00	89.85	270.132	6,219.06	-277.75	-8,837.34	8,836.68	0.00	0.00	0.00
15,300.00	89.85	270.132	6,219.33	-277.52	-8,937.34	8,936.68	0.00	0.00	0.00
15,400.00	89.85	270.132	6,219.59	-277.29	-9,037.34	9,036.68	0.00	0.00	0.00
15,500.00	89.85	270.132	6,219.86	-277.06	-9,137.34	9,136.67	0.00	0.00	0.00
15,600.00	89.85	270.132	6,220.13	-276.83	-9,237.34	9,236.67	0.00	0.00	0.00
15,700.00	89.85	270.132	6,220.39	-276.60	-9,337.34	9,336.67	0.00	0.00	0.00
15,800.00	89.85	270.132	6,220.66	-276.37	-9,437.34	9,436.67	0.00	0.00	0.00
15,900.00	89.85	270.132	6,220.93	-276.14	-9,537.33	9,536.67	0.00	0.00	0.00
16,000.00	89.85	270.132	6,221.20	-275.91	-9,637.33	9,636.67	0.00	0.00	0.00
16,100.00	89.85	270.132	6,221.46	-275.68	-9,737.33	9,736.67	0.00	0.00	0.00
16,200.00	89.85	270.132	6,221.73	-275.45	-9,837.33	9,836.67	0.00	0.00	0.00
16,300.00	89.85	270.132	6,222.00	-275.22	-9,937.33	9,936.67	0.00	0.00	0.00
16,300.55	89.85	270.132	6,222.00	-275.21	-9,937.88	9,937.22	0.00	0.00	0.00
TD at 16300.55									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
3-62-4-5764CN LP	0.00	0.000	6,196.00	-297.61	-210.19	1,335,798.85	3,329,087.68	40° 14' 56.980 N	104° 19' 15.560 W
- hit/miss target									
- Shape									
- plan misses target center by 0.02ft at 6572.79ft MD (6196.00 TVD, -297.62 N, -210.19 E)									
- Point									
3-62-4-5764CN PBHL	0.00	0.000	6,222.00	-275.21	-9,937.88	1,335,691.82	3,319,360.57	40° 14' 57.181 N	104° 21' 21.020 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,000.00	1,000.00	0.00	0.00	Start Build 2.00
1,855.66	1,843.00	-80.87	97.72	Start 300.31 hold at 1855.66 MD
2,155.97	2,130.01	-137.21	165.80	Start Drop -1.00
3,867.29	3,816.00	-298.94	361.23	Start 1807.04 hold at 3867.29 MD
5,674.33	5,623.04	-298.94	361.23	Start DLS 10.00 TFO 270.13
6,572.80	6,196.00	-297.62	-210.19	Start 9727.74 hold at 6572.80 MD
16,300.55	6,222.00	-275.21	-9,937.88	TD at 16300.55