





**Bill Barrett Corporation**

## **Bill Barrett Corp.**

Weld County, CO NAD 83

Anschutz Equus Farms 4-62-28\_27 NWSW Pad

Anschutz Equus Farms 4-62-29-2532CS

OH

Plan: Plan 2

## **Standard Planning Report**

28 June, 2017



**Scientific Drilling**

[www.scientificdrilling.com](http://www.scientificdrilling.com)



<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farms 4-62-29-2532CS
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4624' & KB 20' @ 4644.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4624' & KB 20' @ 4644.00ft
<b>Site:</b>	Anschutz Equus Farms 4-62-28_27 NWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz Equus Farms 4-62-29-2532CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2		

<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		

<b>Site</b>	Anschutz Equus Farms 4-62-28_27 NWSW Pad, Site Center : Anschutz Equus Farms 4-62-28-3240C		
<b>Site Position:</b>		<b>Northing:</b>	1,347,562.99 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,324,530.53 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	40° 16' 53.821 N
		<b>Longitude:</b>	104° 20' 12.340 W
		<b>Grid Convergence:</b>	0.75 °

<b>Well</b>	Anschutz Equus Farms 4-62-29-2532CS, 2158' FSL 306' FWL Sec 28 T4N R62W		
<b>Well Position</b>	<b>+N/-S</b>	-14.23 ft	<b>Northing:</b> 1,347,546.40 usft
	<b>+E/-W</b>	-179.95 ft	<b>Easting:</b> 3,324,350.78 usft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	0.00 ft
		<b>Latitude:</b>	40° 16' 53.681 N
		<b>Longitude:</b>	104° 20' 14.662 W
		<b>Ground Level:</b>	4,624.00 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>
	HDGM	4/28/2017	8.28	66.95	52,386
	HDGM	6/28/2017	8.27	66.95	52,366

<b>Design</b>	Plan 2			
<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	270.318

<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	0.000	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	
1,922.58	18.45	327.278	1,906.72	123.90	-79.61	2.00	2.00	0.00	327.28	
2,222.86	18.45	327.278	2,191.56	203.86	-130.99	0.00	0.00	0.00	0.00	
4,068.03	0.00	0.000	4,005.00	451.67	-290.21	1.00	-1.00	0.00	180.00	
5,869.58	0.00	0.000	5,806.55	451.67	-290.21	0.00	0.00	0.00	0.00	
6,615.79	89.55	270.319	6,284.00	454.30	-763.88	12.00	12.00	-12.02	270.32	
16,317.63	89.55	270.319	6,361.00	508.24	-10,465.26	0.00	0.00	0.00	0.00	4-62-29-2532CS PBH

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farms 4-62-29-2532CS
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<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4624' & KB 20' @ 4644.00ft
<b>Site:</b>	Anschutz Equus Farms 4-62-28_27 NWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz Equus Farms 4-62-29-2532CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2		

**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
<b>Start Build 2.00</b>									
1,100.00	2.00	327.278	1,099.98	1.47	-0.94	0.95	2.00	2.00	0.00
1,200.00	4.00	327.278	1,199.84	5.87	-3.77	3.80	2.00	2.00	0.00
1,300.00	6.00	327.278	1,299.45	13.20	-8.48	8.56	2.00	2.00	0.00
1,400.00	8.00	327.278	1,398.70	23.46	-15.07	15.20	2.00	2.00	0.00
1,500.00	10.00	327.278	1,497.47	36.62	-23.53	23.73	2.00	2.00	0.00
1,600.00	12.00	327.278	1,595.62	52.67	-33.84	34.13	2.00	2.00	0.00
1,700.00	14.00	327.278	1,693.06	71.59	-46.00	46.40	2.00	2.00	0.00
1,800.00	16.00	327.278	1,789.64	93.37	-59.99	60.51	2.00	2.00	0.00
1,900.00	18.00	327.278	1,885.27	117.96	-75.79	76.45	2.00	2.00	0.00
1,922.58	18.45	327.278	1,906.72	123.90	-79.61	80.30	2.00	2.00	0.00
<b>Start 300.28 hold at 1922.58 MD</b>									
2,000.00	18.45	327.278	1,980.16	144.52	-92.86	93.66	0.00	0.00	0.00
2,100.00	18.45	327.278	2,075.01	171.15	-109.97	110.91	0.00	0.00	0.00
2,200.00	18.45	327.278	2,169.87	197.77	-127.07	128.17	0.00	0.00	0.00
2,222.86	18.45	327.278	2,191.56	203.86	-130.99	132.12	0.00	0.00	0.00
<b>Start Drop -1.00</b>									
2,300.00	17.68	327.278	2,264.89	223.99	-143.92	145.16	1.00	-1.00	0.00
2,400.00	16.68	327.278	2,360.43	248.84	-159.88	161.26	1.00	-1.00	0.00
2,500.00	15.68	327.278	2,456.47	272.28	-174.95	176.46	1.00	-1.00	0.00
2,600.00	14.68	327.278	2,552.98	294.31	-189.10	190.73	1.00	-1.00	0.00
2,700.00	13.68	327.278	2,649.93	314.92	-202.34	204.09	1.00	-1.00	0.00
2,800.00	12.68	327.278	2,747.30	334.10	-214.67	216.52	1.00	-1.00	0.00
2,900.00	11.68	327.278	2,845.04	351.85	-226.07	228.02	1.00	-1.00	0.00
3,000.00	10.68	327.278	2,943.14	368.17	-236.56	238.60	1.00	-1.00	0.00
3,100.00	9.68	327.278	3,041.57	383.03	-246.11	248.23	1.00	-1.00	0.00
3,200.00	8.68	327.278	3,140.29	396.46	-254.73	256.93	1.00	-1.00	0.00
3,300.00	7.68	327.278	3,239.27	408.43	-262.43	264.69	1.00	-1.00	0.00
3,400.00	6.68	327.278	3,338.48	418.94	-269.18	271.50	1.00	-1.00	0.00
3,500.00	5.68	327.278	3,437.90	428.00	-275.00	277.37	1.00	-1.00	0.00
3,600.00	4.68	327.278	3,537.49	435.60	-279.88	282.30	1.00	-1.00	0.00
3,700.00	3.68	327.278	3,637.22	441.73	-283.82	286.27	1.00	-1.00	0.00
3,800.00	2.68	327.278	3,737.07	446.40	-286.82	289.29	1.00	-1.00	0.00
3,900.00	1.68	327.278	3,836.99	449.60	-288.88	291.37	1.00	-1.00	0.00
4,000.00	0.68	327.278	3,936.97	451.33	-289.99	292.49	1.00	-1.00	0.00
4,068.03	0.00	0.000	4,005.00	451.67	-290.21	292.71	1.00	-1.00	0.00
<b>Start 1801.55 hold at 4068.03 MD</b>									
4,100.00	0.00	0.000	4,036.97	451.67	-290.21	292.71	0.00	0.00	0.00
4,200.00	0.00	0.000	4,136.97	451.67	-290.21	292.71	0.00	0.00	0.00
4,300.00	0.00	0.000	4,236.97	451.67	-290.21	292.71	0.00	0.00	0.00
4,400.00	0.00	0.000	4,336.97	451.67	-290.21	292.71	0.00	0.00	0.00
4,500.00	0.00	0.000	4,436.97	451.67	-290.21	292.71	0.00	0.00	0.00

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<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4624' & KB 20' @ 4644.00ft
<b>Site:</b>	Anschutz Equus Farms 4-62-28_27 NWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz Equus Farms 4-62-29-2532CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2		

**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)
4,600.00	0.00	0.000	4,536.97	451.67	-290.21	292.71	0.00	0.00	0.00
4,700.00	0.00	0.000	4,636.97	451.67	-290.21	292.71	0.00	0.00	0.00
4,800.00	0.00	0.000	4,736.97	451.67	-290.21	292.71	0.00	0.00	0.00
4,900.00	0.00	0.000	4,836.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,000.00	0.00	0.000	4,936.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,100.00	0.00	0.000	5,036.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,200.00	0.00	0.000	5,136.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,300.00	0.00	0.000	5,236.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,400.00	0.00	0.000	5,336.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,500.00	0.00	0.000	5,436.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,600.00	0.00	0.000	5,536.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,700.00	0.00	0.000	5,636.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,800.00	0.00	0.000	5,736.97	451.67	-290.21	292.71	0.00	0.00	0.00
5,869.58	0.00	0.000	5,806.55	451.67	-290.21	292.71	0.00	0.00	0.00
<b>Start DLS 12.00 TFO 270.32</b>									
5,900.00	3.65	270.319	5,836.95	451.68	-291.18	293.68	12.00	12.00	0.00
6,000.00	15.65	270.319	5,935.35	451.77	-307.91	310.41	12.00	12.00	0.00
6,100.00	27.65	270.319	6,028.13	451.97	-344.74	347.24	12.00	12.00	0.00
6,200.00	39.65	270.319	6,111.22	452.28	-400.05	402.55	12.00	12.00	0.00
6,300.00	51.65	270.319	6,181.00	452.68	-471.42	473.93	12.00	12.00	0.00
6,400.00	63.65	270.319	6,234.41	453.15	-555.75	558.25	12.00	12.00	0.00
6,500.00	75.65	270.319	6,269.12	453.67	-649.33	651.84	12.00	12.00	0.00
6,600.00	87.65	270.319	6,283.61	454.22	-748.09	750.60	12.00	12.00	0.00
6,615.79	89.55	270.319	6,284.00	454.30	-763.88	766.39	12.00	12.00	0.00
<b>Start 9701.84 hold at 6615.79 MD</b>									
6,700.00	89.55	270.319	6,284.67	454.77	-848.08	850.59	0.00	0.00	0.00
6,800.00	89.55	270.319	6,285.46	455.33	-948.08	950.59	0.00	0.00	0.00
6,900.00	89.55	270.319	6,286.26	455.88	-1,048.07	1,050.59	0.00	0.00	0.00
7,000.00	89.55	270.319	6,287.05	456.44	-1,148.07	1,150.58	0.00	0.00	0.00
7,100.00	89.55	270.319	6,287.84	456.99	-1,248.06	1,250.58	0.00	0.00	0.00
7,200.00	89.55	270.319	6,288.64	457.55	-1,348.06	1,350.58	0.00	0.00	0.00
7,300.00	89.55	270.319	6,289.43	458.11	-1,448.05	1,450.57	0.00	0.00	0.00
7,400.00	89.55	270.319	6,290.22	458.66	-1,548.05	1,550.57	0.00	0.00	0.00
7,500.00	89.55	270.319	6,291.02	459.22	-1,648.05	1,650.57	0.00	0.00	0.00
7,600.00	89.55	270.319	6,291.81	459.77	-1,748.04	1,750.57	0.00	0.00	0.00
7,700.00	89.55	270.319	6,292.60	460.33	-1,848.04	1,850.56	0.00	0.00	0.00
7,800.00	89.55	270.319	6,293.40	460.89	-1,948.03	1,950.56	0.00	0.00	0.00
7,900.00	89.55	270.319	6,294.19	461.44	-2,048.03	2,050.56	0.00	0.00	0.00
8,000.00	89.55	270.319	6,294.99	462.00	-2,148.02	2,150.55	0.00	0.00	0.00
8,100.00	89.55	270.319	6,295.78	462.55	-2,248.02	2,250.55	0.00	0.00	0.00
8,200.00	89.55	270.319	6,296.57	463.11	-2,348.01	2,350.55	0.00	0.00	0.00
8,300.00	89.55	270.319	6,297.37	463.67	-2,448.01	2,450.54	0.00	0.00	0.00
8,400.00	89.55	270.319	6,298.16	464.22	-2,548.00	2,550.54	0.00	0.00	0.00
8,500.00	89.55	270.319	6,298.95	464.78	-2,648.00	2,650.54	0.00	0.00	0.00
8,600.00	89.55	270.319	6,299.75	465.33	-2,747.99	2,750.53	0.00	0.00	0.00
8,700.00	89.55	270.319	6,300.54	465.89	-2,847.99	2,850.53	0.00	0.00	0.00
8,800.00	89.55	270.319	6,301.34	466.45	-2,947.98	2,950.53	0.00	0.00	0.00
8,900.00	89.55	270.319	6,302.13	467.00	-3,047.98	3,050.52	0.00	0.00	0.00
9,000.00	89.55	270.319	6,302.92	467.56	-3,147.97	3,150.52	0.00	0.00	0.00
9,100.00	89.55	270.319	6,303.72	468.11	-3,247.97	3,250.52	0.00	0.00	0.00
9,200.00	89.55	270.319	6,304.51	468.67	-3,347.97	3,350.51	0.00	0.00	0.00
9,300.00	89.55	270.319	6,305.30	469.22	-3,447.96	3,450.51	0.00	0.00	0.00
9,400.00	89.55	270.319	6,306.10	469.78	-3,547.96	3,550.51	0.00	0.00	0.00

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<b>Well:</b>	Anschutz Equus Farms 4-62-29-2532CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2		

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	89.55	270.319	6,306.89	470.34	-3,647.95	3,650.51	0.00	0.00	0.00
9,600.00	89.55	270.319	6,307.68	470.89	-3,747.95	3,750.50	0.00	0.00	0.00
9,700.00	89.55	270.319	6,308.48	471.45	-3,847.94	3,850.50	0.00	0.00	0.00
9,800.00	89.55	270.319	6,309.27	472.00	-3,947.94	3,950.50	0.00	0.00	0.00
9,900.00	89.55	270.319	6,310.07	472.56	-4,047.93	4,050.49	0.00	0.00	0.00
10,000.00	89.55	270.319	6,310.86	473.12	-4,147.93	4,150.49	0.00	0.00	0.00
10,100.00	89.55	270.319	6,311.65	473.67	-4,247.92	4,250.49	0.00	0.00	0.00
10,200.00	89.55	270.319	6,312.45	474.23	-4,347.92	4,350.48	0.00	0.00	0.00
10,300.00	89.55	270.319	6,313.24	474.78	-4,447.91	4,450.48	0.00	0.00	0.00
10,400.00	89.55	270.319	6,314.03	475.34	-4,547.91	4,550.48	0.00	0.00	0.00
10,500.00	89.55	270.319	6,314.83	475.90	-4,647.90	4,650.47	0.00	0.00	0.00
10,600.00	89.55	270.319	6,315.62	476.45	-4,747.90	4,750.47	0.00	0.00	0.00
10,700.00	89.55	270.319	6,316.41	477.01	-4,847.89	4,850.47	0.00	0.00	0.00
10,800.00	89.55	270.319	6,317.21	477.56	-4,947.89	4,950.46	0.00	0.00	0.00
10,900.00	89.55	270.319	6,318.00	478.12	-5,047.89	5,050.46	0.00	0.00	0.00
11,000.00	89.55	270.319	6,318.80	478.68	-5,147.88	5,150.46	0.00	0.00	0.00
11,100.00	89.55	270.319	6,319.59	479.23	-5,247.88	5,250.46	0.00	0.00	0.00
11,200.00	89.55	270.319	6,320.38	479.79	-5,347.87	5,350.45	0.00	0.00	0.00
11,300.00	89.55	270.319	6,321.18	480.34	-5,447.87	5,450.45	0.00	0.00	0.00
11,400.00	89.55	270.319	6,321.97	480.90	-5,547.86	5,550.45	0.00	0.00	0.00
11,500.00	89.55	270.319	6,322.76	481.45	-5,647.86	5,650.44	0.00	0.00	0.00
11,600.00	89.55	270.319	6,323.56	482.01	-5,747.85	5,750.44	0.00	0.00	0.00
11,700.00	89.55	270.319	6,324.35	482.57	-5,847.85	5,850.44	0.00	0.00	0.00
11,800.00	89.55	270.319	6,325.15	483.12	-5,947.84	5,950.43	0.00	0.00	0.00
11,900.00	89.55	270.319	6,325.94	483.68	-6,047.84	6,050.43	0.00	0.00	0.00
12,000.00	89.55	270.319	6,326.73	484.23	-6,147.83	6,150.43	0.00	0.00	0.00
12,100.00	89.55	270.319	6,327.53	484.79	-6,247.83	6,250.42	0.00	0.00	0.00
12,200.00	89.55	270.319	6,328.32	485.35	-6,347.82	6,350.42	0.00	0.00	0.00
12,300.00	89.55	270.319	6,329.11	485.90	-6,447.82	6,450.42	0.00	0.00	0.00
12,400.00	89.55	270.319	6,329.91	486.46	-6,547.82	6,550.41	0.00	0.00	0.00
12,500.00	89.55	270.319	6,330.70	487.01	-6,647.81	6,650.41	0.00	0.00	0.00
12,600.00	89.55	270.319	6,331.49	487.57	-6,747.81	6,750.41	0.00	0.00	0.00
12,700.00	89.55	270.319	6,332.29	488.13	-6,847.80	6,850.40	0.00	0.00	0.00
12,800.00	89.55	270.319	6,333.08	488.68	-6,947.80	6,950.40	0.00	0.00	0.00
12,900.00	89.55	270.319	6,333.88	489.24	-7,047.79	7,050.40	0.00	0.00	0.00
13,000.00	89.55	270.319	6,334.67	489.79	-7,147.79	7,150.40	0.00	0.00	0.00
13,100.00	89.55	270.319	6,335.46	490.35	-7,247.78	7,250.39	0.00	0.00	0.00
13,200.00	89.55	270.319	6,336.26	490.90	-7,347.78	7,350.39	0.00	0.00	0.00
13,300.00	89.55	270.319	6,337.05	491.46	-7,447.77	7,450.39	0.00	0.00	0.00
13,400.00	89.55	270.319	6,337.84	492.02	-7,547.77	7,550.38	0.00	0.00	0.00
13,500.00	89.55	270.319	6,338.64	492.57	-7,647.76	7,650.38	0.00	0.00	0.00
13,600.00	89.55	270.319	6,339.43	493.13	-7,747.76	7,750.38	0.00	0.00	0.00
13,700.00	89.55	270.319	6,340.22	493.68	-7,847.75	7,850.37	0.00	0.00	0.00
13,800.00	89.55	270.319	6,341.02	494.24	-7,947.75	7,950.37	0.00	0.00	0.00
13,900.00	89.55	270.319	6,341.81	494.80	-8,047.74	8,050.37	0.00	0.00	0.00
14,000.00	89.55	270.319	6,342.61	495.35	-8,147.74	8,150.36	0.00	0.00	0.00
14,100.00	89.55	270.319	6,343.40	495.91	-8,247.74	8,250.36	0.00	0.00	0.00
14,200.00	89.55	270.319	6,344.19	496.46	-8,347.73	8,350.36	0.00	0.00	0.00
14,300.00	89.55	270.319	6,344.99	497.02	-8,447.73	8,450.35	0.00	0.00	0.00
14,400.00	89.55	270.319	6,345.78	497.58	-8,547.72	8,550.35	0.00	0.00	0.00
14,500.00	89.55	270.319	6,346.57	498.13	-8,647.72	8,650.35	0.00	0.00	0.00
14,600.00	89.55	270.319	6,347.37	498.69	-8,747.71	8,750.34	0.00	0.00	0.00
14,700.00	89.55	270.319	6,348.16	499.24	-8,847.71	8,850.34	0.00	0.00	0.00

<b>Database:</b>	Casper District	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farms 4-62-29-2532CS
<b>Company:</b>	Bill Barrett Corp.	<b>TVD Reference:</b>	GL 4624' & KB 20' @ 4644.00ft
<b>Project:</b>	Weld County, CO NAD 83	<b>MD Reference:</b>	GL 4624' & KB 20' @ 4644.00ft
<b>Site:</b>	Anschutz Equus Farms 4-62-28_27 NWSW Pad	<b>North Reference:</b>	True
<b>Well:</b>	Anschutz Equus Farms 4-62-29-2532CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2		

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)	
14,800.00	89.55	270.319	6,348.96	499.80	-8,947.70	8,950.34	0.00	0.00	0.00	
14,900.00	89.55	270.319	6,349.75	500.36	-9,047.70	9,050.34	0.00	0.00	0.00	
15,000.00	89.55	270.319	6,350.54	500.91	-9,147.69	9,150.33	0.00	0.00	0.00	
15,100.00	89.55	270.319	6,351.34	501.47	-9,247.69	9,250.33	0.00	0.00	0.00	
15,200.00	89.55	270.319	6,352.13	502.02	-9,347.68	9,350.33	0.00	0.00	0.00	
15,300.00	89.55	270.319	6,352.92	502.58	-9,447.68	9,450.32	0.00	0.00	0.00	
15,400.00	89.55	270.319	6,353.72	503.13	-9,547.67	9,550.32	0.00	0.00	0.00	
15,500.00	89.55	270.319	6,354.51	503.69	-9,647.67	9,650.32	0.00	0.00	0.00	
15,600.00	89.55	270.319	6,355.30	504.25	-9,747.67	9,750.31	0.00	0.00	0.00	
15,700.00	89.55	270.319	6,356.10	504.80	-9,847.66	9,850.31	0.00	0.00	0.00	
15,800.00	89.55	270.319	6,356.89	505.36	-9,947.66	9,950.31	0.00	0.00	0.00	
15,900.00	89.55	270.319	6,357.69	505.91	-10,047.65	10,050.30	0.00	0.00	0.00	
16,000.00	89.55	270.319	6,358.48	506.47	-10,147.65	10,150.30	0.00	0.00	0.00	
16,100.00	89.55	270.319	6,359.27	507.03	-10,247.64	10,250.30	0.00	0.00	0.00	
16,200.00	89.55	270.319	6,360.07	507.58	-10,347.64	10,350.29	0.00	0.00	0.00	
16,300.00	89.55	270.319	6,360.86	508.14	-10,447.63	10,450.29	0.00	0.00	0.00	
16,317.63	89.55	270.319	6,361.00	508.24	-10,465.26	10,467.92	0.00	0.00	0.00	
TD at 16317.63										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
4-62-29-2532CS LP - hit/miss target - Shape - Point	0.00	0.000	6,284.00	454.30	-763.88	1,347,990.65	3,323,581.01	40° 16' 58.170 N	104° 20' 24.518 W	
4-62-29-2532CS PBHL - plan hits target center - Point	0.00	0.000	6,361.00	508.24	-10,465.26	1,347,917.39	3,313,879.78	40° 16' 58.681 N	104° 22' 29.701 W	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	Start Build 2.00	
1,922.58	1,906.72	123.90	-79.61	Start 300.28 hold at 1922.58 MD	
2,222.86	2,191.56	203.86	-130.99	Start Drop -1.00	
4,068.03	4,005.00	451.67	-290.21	Start 1801.55 hold at 4068.03 MD	
5,869.58	5,806.55	451.67	-290.21	Start DLS 12.00 TFO 270.32	
6,615.79	6,284.00	454.30	-763.88	Start 9701.84 hold at 6615.79 MD	
16,317.63	6,361.00	508.24	-10,465.26	TD at 16317.63	