



Project: Weld County, CO NAD 83
Site: Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD]
Well: Anschutz Equus Farms 4-62-29-2532CS
Wellbore: OH
Design: OH

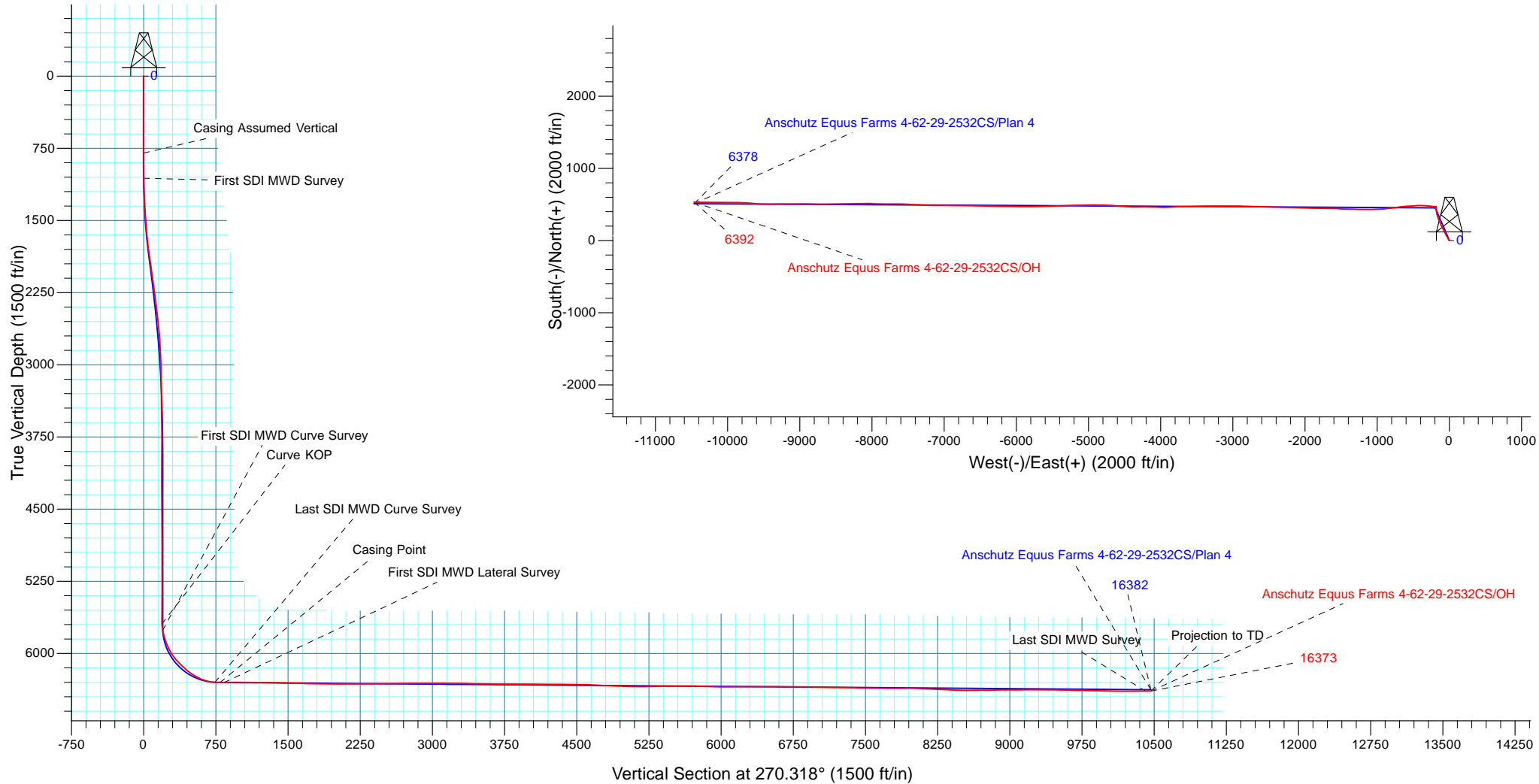


WELL DETAILS: Anschutz Equus Farms 4-62-29-2532CS				
GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)				
Northing	Easting	Latitude	Longitude	
1347545.28	3324350.92	40° 16' 53.669 N	104° 20' 14.660 W	

Design: OH (Anschutz Equus Farms 4-62-29-2532CS/OH)	
Created By: Seth Burstad	Date: 9-9-2017

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

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
800.00	800.00	0.00	0.000	0.00	0.00	0.00	0.00	Casing Assumed Vertical	
1062.99	1063.00	0.71	289.630	0.55	-1.53	1.54	1.63	First SDI MWD Survey	
5691.95	5750.00	2.57	286.177	462.12	-188.16	190.73	521.59	Curve KOP	
5759.40	5818.00	11.17	278.490	463.52	-196.16	198.73	528.72	First SDI MWD Curve Survey	
6301.23	6639.00	87.02	260.700	457.31	-737.56	740.08	1073.10	Last SDI MWD Curve Survey	
6302.98	6694.00	89.34	262.623	449.34	-791.94	794.42	1128.08	Casing Point	
6302.82	6736.00	91.11	264.090	444.48	-833.66	836.11	1170.07	First SDI MWD Lateral Survey	
6392.30	16316.00	90.44	270.740	530.02	-10407.26	10410.04	10748.22	Last SDI MWD Survey	
6391.86	16373.00	90.44	270.740	530.76	-10464.25	10467.04	10805.22	Projection to TD	





Bill Barrett Corporation

Bill Barrett Corp.

Weld County, CO NAD 83

Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD]

Anschutz Equus Farms 4-62-29-2532CS

OH

Design: OH

Standard Survey Report

09 September, 2017



Scientific Drilling

www.scientificdrilling.com



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz Equus Farms 4-62-29-2532CS
Project:	Weld County, CO NAD 83	TVD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Site:	Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD]	MD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-29-2532CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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 4-62-28_27 NWSW Pad [GOOD], Site Center : Anschutz Equus Farms 4-62-28-3240C				
Site Position:		Northing:	1,347,562.98 usft	Latitude:	40° 16' 53.821 N
From:	Lat/Long	Easting:	3,324,530.53 usft	Longitude:	104° 20' 12.340 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.75 °

Well	Anschutz Equus Farms 4-62-29-2532CS, 2158' FSL 306' FWL Sec 28 T4N R62W					
Well Position	+N/-S	0.00 ft	Northing:	1,347,545.28 usft	Latitude:	40° 16' 53.669 N
	+E/-W	0.00 ft	Easting:	3,324,350.92 usft	Longitude:	104° 20' 14.660 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,624.30 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/30/2017	8.25	66.95	52,345

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	270.318	

Survey Program	Date	9/9/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
800.00	6,639.00	Survey #1 - Intermediate (OH)	OWSG MWD	OWSG MWD - Standard	
6,736.00	16,373.00	Survey #2 - Lateral (OH)	OWSG MWD	OWSG MWD - Standard	

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	
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
Casing Assumed Vertical										
1,063.00	0.71	289.630	1,062.99	0.55	-1.53	1.54	0.27	0.27	0.00	
First SDI MWD Survey										
1,154.00	2.96	322.030	1,153.94	2.59	-3.51	3.53	2.63	2.47	35.60	
1,245.00	3.67	323.800	1,244.79	6.79	-6.68	6.72	0.79	0.78	1.95	
1,336.00	6.15	329.130	1,335.45	13.33	-10.90	10.97	2.77	2.73	5.86	
1,427.00	7.27	330.970	1,425.82	22.55	-16.19	16.32	1.25	1.23	2.02	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz Equus Farms 4-62-29-2532CS
Project:	Weld County, CO NAD 83	TVD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Site:	Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD]	MD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-29-2532CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
1,519.00	9.41	333.850	1,516.85	34.39	-22.33	22.53	2.37	2.33	3.13
1,611.00	9.14	326.750	1,607.65	47.25	-29.66	29.92	1.28	-0.29	-7.72
1,702.00	11.87	331.080	1,697.11	61.49	-38.15	38.49	3.12	3.00	4.76
1,793.00	15.05	332.150	1,785.60	80.13	-48.19	48.64	3.51	3.49	1.18
1,885.00	17.28	335.180	1,873.96	103.10	-59.51	60.08	2.59	2.42	3.29
1,975.00	17.55	332.050	1,959.84	127.22	-71.48	72.19	1.08	0.30	-3.48
2,067.00	16.70	330.410	2,047.76	150.97	-84.51	85.35	1.06	-0.92	-1.78
2,158.00	17.72	334.470	2,134.69	174.83	-96.94	97.91	1.73	1.12	4.46
2,249.00	17.55	333.390	2,221.41	199.60	-109.05	110.16	0.41	-0.19	-1.19
2,341.00	16.89	336.630	2,309.29	224.27	-120.57	121.81	1.27	-0.72	3.52
2,436.00	16.81	337.690	2,400.21	249.64	-131.25	132.64	0.33	-0.08	1.12
2,530.00	16.24	336.800	2,490.33	274.30	-141.59	143.11	0.66	-0.61	-0.95
2,625.00	15.17	339.130	2,581.78	298.13	-151.25	152.91	1.31	-1.13	2.45
2,718.00	15.13	338.770	2,671.55	320.81	-159.98	161.76	0.11	-0.04	-0.39
2,812.00	12.91	344.740	2,762.75	342.38	-167.19	169.09	2.82	-2.36	6.35
2,906.00	10.86	347.480	2,854.73	361.16	-171.88	173.88	2.26	-2.18	2.91
3,000.00	9.68	349.960	2,947.22	377.58	-175.17	177.27	1.34	-1.26	2.64
3,094.00	9.03	349.290	3,039.97	392.61	-177.92	180.10	0.70	-0.69	-0.71
3,188.00	8.02	350.340	3,132.93	406.33	-180.39	182.65	1.09	-1.07	1.12
3,283.00	6.76	354.590	3,227.14	418.43	-182.03	184.35	1.44	-1.33	4.47
3,377.00	6.69	355.110	3,320.49	429.39	-183.02	185.40	0.10	-0.07	0.55
3,471.00	5.17	351.980	3,413.99	439.04	-184.08	186.51	1.65	-1.62	-3.33
3,565.00	4.97	356.070	3,507.62	447.29	-184.95	187.43	0.44	-0.21	4.35
3,660.00	4.75	355.100	3,602.28	455.32	-185.57	188.09	0.25	-0.23	-1.02
3,754.00	2.99	348.610	3,696.06	461.60	-186.38	188.94	1.93	-1.87	-6.90
3,848.00	0.51	4.290	3,790.01	464.42	-186.84	189.41	2.66	-2.64	16.68
3,941.00	0.23	93.130	3,883.01	464.82	-186.62	189.20	0.60	-0.30	95.53
4,035.00	0.66	149.780	3,977.01	464.35	-186.16	188.73	0.60	0.46	60.27
4,129.00	0.57	169.400	4,071.00	463.42	-185.80	188.37	0.24	-0.10	20.87
4,223.00	0.17	145.500	4,165.00	462.84	-185.63	188.20	0.45	-0.43	-25.43
4,316.00	0.18	136.790	4,258.00	462.62	-185.46	188.02	0.03	0.01	-9.37
4,409.00	0.17	225.700	4,351.00	462.42	-185.45	188.02	0.26	-0.01	95.60
4,503.00	0.51	277.580	4,445.00	462.38	-185.97	188.53	0.45	0.36	55.19
4,598.00	0.59	265.660	4,539.99	462.40	-186.88	189.44	0.15	0.08	-12.55
4,692.00	0.64	252.540	4,633.99	462.20	-187.86	190.42	0.16	0.05	-13.96
4,786.00	0.50	239.630	4,727.98	461.84	-188.71	191.27	0.20	-0.15	-13.73
4,880.00	0.43	233.940	4,821.98	461.42	-189.35	191.91	0.09	-0.07	-6.05
4,974.00	0.50	243.360	4,915.98	461.03	-190.00	192.56	0.11	0.07	10.02
5,068.00	0.13	331.260	5,009.97	460.94	-190.42	192.98	0.54	-0.39	93.51
5,161.00	0.13	197.120	5,102.97	460.93	-190.50	193.06	0.26	0.00	-144.24
5,255.00	0.11	158.390	5,196.97	460.75	-190.50	193.06	0.09	-0.02	-41.20
5,349.00	0.15	74.320	5,290.97	460.70	-190.35	192.90	0.19	0.04	-89.44
5,443.00	0.42	68.560	5,384.97	460.86	-189.91	192.47	0.29	0.29	-6.13

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Well:	Anschutz Equus Farms 4-62-29-2532CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
5,537.00	0.34	66.980	5,478.97	461.09	-189.33	191.89	0.09	-0.09	-1.68
5,630.00	0.45	57.920	5,571.97	461.39	-188.77	191.33	0.14	0.12	-9.74
5,724.00	0.89	66.390	5,665.96	461.88	-187.79	190.35	0.48	0.47	9.01
5,750.00	2.57	286.177	5,691.95	462.12	-188.16	190.73	12.69	6.45	-539.28
Curve KOP									
5,818.00	11.17	278.490	5,759.40	463.52	-196.16	198.73	12.69	12.65	-11.30
First SDI MWD Curve Survey									
5,912.00	18.00	284.180	5,850.33	468.43	-219.27	221.87	7.42	7.27	6.05
6,005.00	24.18	277.220	5,937.07	474.35	-252.13	254.76	7.16	6.65	-7.48
6,099.00	34.61	274.000	6,018.86	478.65	-297.99	300.65	11.22	11.10	-3.43
6,193.00	44.26	273.900	6,091.37	482.75	-357.49	360.16	10.27	10.27	-0.11
6,287.00	48.49	266.450	6,156.26	482.80	-425.43	428.10	7.29	4.50	-7.93
6,381.00	55.02	268.220	6,214.42	479.42	-499.13	501.78	7.10	6.95	1.88
6,475.00	66.29	267.470	6,260.41	476.32	-580.87	583.51	12.01	11.99	-0.80
6,569.00	75.90	261.760	6,290.85	467.86	-669.25	671.84	11.72	10.22	-6.07
6,639.00	87.02	260.700	6,301.23	457.31	-737.56	740.08	15.96	15.89	-1.51
Last SDI MWD Curve Survey									
6,694.00	89.34	262.623	6,302.98	449.34	-791.94	794.42	5.48	4.22	3.50
Casing Point									
6,736.00	91.11	264.090	6,302.82	444.48	-833.66	836.11	5.48	4.22	3.49
First SDI MWD Lateral Survey									
6,768.00	91.21	264.290	6,302.17	441.24	-865.48	867.92	0.70	0.31	0.63
6,862.00	90.67	266.560	6,300.63	433.75	-959.17	961.56	2.48	-0.57	2.41
6,956.00	90.40	268.760	6,299.75	429.91	-1,053.08	1,055.45	2.36	-0.29	2.34
7,050.00	88.86	270.940	6,300.36	429.66	-1,147.07	1,149.43	2.84	-1.64	2.32
7,143.00	89.33	270.940	6,301.82	431.19	-1,240.04	1,242.42	0.51	0.51	0.00
7,237.00	88.49	271.380	6,303.61	433.09	-1,334.01	1,336.39	1.01	-0.89	0.47
7,331.00	87.85	271.420	6,306.61	435.39	-1,427.93	1,430.32	0.68	-0.68	0.04
7,425.00	89.43	273.220	6,308.85	439.19	-1,521.82	1,524.23	2.55	1.68	1.91
7,518.00	88.32	271.160	6,310.67	442.74	-1,614.73	1,617.16	2.52	-1.19	-2.22
7,613.00	88.46	270.840	6,313.34	444.40	-1,709.67	1,712.11	0.37	0.15	-0.34
7,706.00	89.03	271.430	6,315.38	446.24	-1,802.63	1,805.08	0.88	0.61	0.63
7,801.00	89.93	271.700	6,316.24	448.84	-1,897.59	1,900.05	0.99	0.95	0.28
7,894.00	90.00	272.100	6,316.30	451.92	-1,990.54	1,993.02	0.44	0.08	0.43
7,988.00	89.33	271.310	6,316.85	454.72	-2,084.50	2,086.99	1.10	-0.71	-0.84
8,082.00	89.80	270.460	6,317.56	456.17	-2,178.48	2,180.98	1.03	0.50	-0.90
8,177.00	90.57	271.060	6,317.25	457.43	-2,273.47	2,275.98	1.03	0.81	0.63
8,271.00	91.21	271.360	6,315.79	459.41	-2,367.44	2,369.95	0.75	0.68	0.32
8,364.00	90.37	272.380	6,314.51	462.45	-2,460.38	2,462.91	1.42	-0.90	1.10
8,459.00	90.40	271.860	6,313.87	465.96	-2,555.31	2,557.86	0.55	0.03	-0.55
8,552.00	90.30	271.910	6,313.30	469.02	-2,648.26	2,650.82	0.12	-0.11	0.05
8,647.00	91.31	272.780	6,311.97	472.91	-2,743.17	2,745.75	1.40	1.06	0.92
8,741.00	90.87	270.970	6,310.18	475.98	-2,837.10	2,839.69	1.98	-0.47	-1.93

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Well:	Anschutz Equus Farms 4-62-29-2532CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
8,835.00	90.47	269.580	6,309.08	476.43	-2,931.09	2,933.69	1.54	-0.43	-1.48
8,930.00	88.86	270.580	6,309.64	476.57	-3,026.08	3,028.68	2.00	-1.69	1.05
9,024.00	89.43	270.440	6,311.04	477.40	-3,120.07	3,122.67	0.62	0.61	-0.15
9,118.00	89.23	269.870	6,312.14	477.66	-3,214.06	3,216.66	0.64	-0.21	-0.61
9,211.00	89.93	270.290	6,312.82	477.79	-3,307.05	3,309.66	0.88	0.75	0.45
9,305.00	87.55	267.930	6,314.89	476.33	-3,401.01	3,403.60	3.57	-2.53	-2.51
9,400.00	89.97	269.920	6,316.94	474.55	-3,495.96	3,498.54	3.30	2.55	2.09
9,494.00	89.56	268.190	6,317.33	473.00	-3,589.94	3,592.51	1.89	-0.44	-1.84
9,589.00	89.46	268.320	6,318.14	470.10	-3,684.89	3,687.44	0.17	-0.11	0.14
9,682.00	89.97	268.150	6,318.60	467.24	-3,777.85	3,780.38	0.58	0.55	-0.18
9,776.00	89.30	265.240	6,319.20	461.82	-3,871.68	3,874.18	3.18	-0.71	-3.10
9,871.00	89.40	271.480	6,320.28	459.10	-3,966.59	3,969.07	6.57	0.11	6.57
9,966.00	89.66	270.480	6,321.06	460.73	-4,061.57	4,064.06	1.09	0.27	-1.05
10,060.00	90.03	272.250	6,321.32	462.97	-4,155.54	4,158.04	1.92	0.39	1.88
10,154.00	89.97	269.740	6,321.32	464.60	-4,249.51	4,252.03	2.67	-0.06	-2.67
10,248.00	89.63	269.340	6,321.64	463.85	-4,343.51	4,346.02	0.56	-0.36	-0.43
10,342.00	89.13	273.170	6,322.66	465.90	-4,437.46	4,439.98	4.11	-0.53	4.07
10,434.00	89.13	275.040	6,324.06	472.49	-4,529.21	4,531.77	2.03	0.00	2.03
10,525.00	88.12	274.770	6,326.24	480.27	-4,619.85	4,622.45	1.15	-1.11	-0.30
10,616.00	87.28	272.200	6,329.89	485.79	-4,710.60	4,713.23	2.97	-0.92	-2.82
10,707.00	87.28	271.050	6,334.21	488.37	-4,801.46	4,804.10	1.26	0.00	-1.26
10,799.00	87.48	271.060	6,338.42	490.06	-4,893.35	4,896.00	0.22	0.22	0.01
10,890.00	87.95	269.880	6,342.05	490.81	-4,984.27	4,986.92	1.39	0.52	-1.30
10,981.00	88.26	268.750	6,345.06	489.72	-5,075.22	5,077.86	1.29	0.34	-1.24
11,072.00	91.21	268.930	6,345.48	487.88	-5,166.19	5,168.81	3.25	3.24	0.20
11,162.00	91.88	268.670	6,343.05	486.00	-5,256.13	5,258.75	0.80	0.74	-0.29
11,254.00	90.70	268.010	6,340.98	483.33	-5,348.07	5,350.67	1.47	-1.28	-0.72
11,344.00	90.07	267.350	6,340.37	479.69	-5,437.99	5,440.57	1.01	-0.70	-0.73
11,435.00	90.37	267.670	6,340.03	475.74	-5,528.91	5,531.46	0.48	0.33	0.35
11,526.00	90.27	268.130	6,339.52	472.40	-5,619.84	5,622.38	0.52	-0.11	0.51
11,617.00	89.56	268.090	6,339.65	469.40	-5,710.79	5,713.31	0.78	-0.78	-0.04
11,709.00	88.12	269.900	6,341.51	467.79	-5,802.75	5,805.26	2.51	-1.57	1.97
11,801.00	87.55	270.610	6,344.99	468.20	-5,894.69	5,897.19	0.99	-0.62	0.77
11,892.00	89.16	270.940	6,347.60	469.43	-5,985.64	5,988.15	1.81	1.77	0.36
11,983.00	89.77	270.790	6,348.45	470.80	-6,076.62	6,079.14	0.69	0.67	-0.16
12,075.00	90.27	270.990	6,348.42	472.23	-6,168.61	6,171.14	0.59	0.54	0.22
12,165.00	91.07	270.810	6,347.37	473.64	-6,258.59	6,261.12	0.91	0.89	-0.20
12,257.00	90.17	270.740	6,346.37	474.89	-6,350.58	6,353.12	0.98	-0.98	-0.08
12,348.00	90.30	271.450	6,346.00	476.63	-6,441.56	6,444.11	0.79	0.14	0.78
12,440.00	90.33	271.190	6,345.49	478.74	-6,533.53	6,536.09	0.28	0.03	-0.28
12,531.00	90.77	271.310	6,344.62	480.73	-6,624.51	6,627.07	0.50	0.48	0.13
12,622.00	89.33	270.300	6,344.54	482.01	-6,715.50	6,718.07	1.93	-1.58	-1.11

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz Equus Farms 4-62-29-2532CS
Project:	Weld County, CO NAD 83	TVD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Site:	Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD]	MD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-29-2532CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
12,713.00	88.96	270.390	6,345.90	482.56	-6,806.48	6,809.06	0.42	-0.41	0.10
12,804.00	88.66	271.060	6,347.79	483.71	-6,897.46	6,900.03	0.81	-0.33	0.74
12,895.00	88.52	270.360	6,350.03	484.83	-6,988.42	6,991.00	0.78	-0.15	-0.77
12,986.00	88.52	269.900	6,352.38	485.04	-7,079.39	7,081.97	0.51	0.00	-0.51
13,078.00	88.56	271.660	6,354.72	486.29	-7,171.35	7,173.94	1.91	0.04	1.91
13,169.00	88.83	272.340	6,356.79	489.47	-7,262.27	7,264.87	0.80	0.30	0.75
13,260.00	88.96	273.350	6,358.55	493.98	-7,353.14	7,355.77	1.12	0.14	1.11
13,351.00	89.23	272.610	6,359.99	498.71	-7,444.00	7,446.66	0.87	0.30	-0.81
13,442.00	89.50	271.650	6,361.00	502.10	-7,534.93	7,537.60	1.10	0.30	-1.05
13,534.00	89.40	271.340	6,361.88	504.50	-7,626.90	7,629.58	0.35	-0.11	-0.34
13,624.00	89.50	270.100	6,362.74	505.63	-7,716.88	7,719.57	1.38	0.11	-1.38
13,715.00	89.90	270.740	6,363.22	506.29	-7,807.88	7,810.57	0.83	0.44	0.70
13,806.00	90.30	271.340	6,363.06	507.95	-7,898.86	7,901.56	0.79	0.44	0.66
13,898.00	89.66	271.210	6,363.09	509.99	-7,990.84	7,993.55	0.71	-0.70	-0.14
13,989.00	87.28	269.500	6,365.52	510.56	-8,081.80	8,084.51	3.22	-2.62	-1.88
14,081.00	87.18	269.440	6,369.97	509.71	-8,173.69	8,176.39	0.13	-0.11	-0.07
14,173.00	87.45	269.990	6,374.28	509.25	-8,265.58	8,268.28	0.67	0.29	0.60
14,264.00	88.12	269.240	6,377.79	508.64	-8,356.51	8,359.21	1.10	0.74	-0.82
14,355.00	87.85	268.540	6,380.99	506.88	-8,447.44	8,450.12	0.82	-0.30	-0.77
14,447.00	89.16	269.010	6,383.39	504.91	-8,539.38	8,542.05	1.51	1.42	0.51
14,539.00	91.14	269.960	6,383.15	504.08	-8,631.37	8,634.04	2.39	2.15	1.03
14,630.00	90.40	270.070	6,381.93	504.11	-8,722.36	8,725.03	0.82	-0.81	0.12
14,721.00	90.23	270.650	6,381.43	504.68	-8,813.36	8,816.03	0.66	-0.19	0.64
14,813.00	91.31	271.860	6,380.19	506.69	-8,905.33	8,908.00	1.76	1.17	1.32
14,904.00	89.20	269.050	6,379.79	507.42	-8,996.31	8,998.99	3.86	-2.32	-3.09
14,995.00	90.03	269.400	6,380.40	506.19	-9,087.30	9,089.97	0.99	0.91	0.38
15,087.00	90.54	269.450	6,379.94	505.26	-9,179.29	9,181.95	0.56	0.55	0.05
15,178.00	90.00	269.970	6,379.51	504.80	-9,270.29	9,272.95	0.82	-0.59	0.57
15,269.00	89.63	268.310	6,379.81	503.44	-9,361.28	9,363.93	1.87	-0.41	-1.82
15,360.00	90.00	270.300	6,380.10	502.33	-9,452.26	9,454.91	2.22	0.41	2.19
15,452.00	89.97	272.420	6,380.13	504.52	-9,544.23	9,546.89	2.30	-0.03	2.30
15,543.00	88.66	276.660	6,381.21	511.72	-9,634.92	9,637.61	4.88	-1.44	4.66
15,635.00	87.89	273.620	6,383.98	519.95	-9,726.49	9,729.23	3.41	-0.84	-3.30
15,726.00	88.26	270.880	6,387.04	523.52	-9,817.36	9,820.12	3.04	0.41	-3.01
15,820.00	89.40	271.430	6,388.96	525.42	-9,911.32	9,914.09	1.35	1.21	0.59
15,914.00	88.93	269.910	6,390.33	526.52	-10,005.30	10,008.07	1.69	-0.50	-1.62
16,008.00	89.06	269.970	6,391.98	526.42	-10,099.29	10,102.06	0.15	0.14	0.06
16,103.00	89.97	270.910	6,392.78	527.15	-10,194.28	10,197.05	1.38	0.96	0.99
16,198.00	90.07	270.920	6,392.75	528.67	-10,289.27	10,292.04	0.11	0.11	0.01
16,293.00	90.30	270.430	6,392.44	529.79	-10,384.26	10,387.04	0.57	0.24	-0.52
16,316.00	90.44	270.740	6,392.30	530.02	-10,407.26	10,410.04	1.48	0.61	1.35
Last SDI MWD Survey									
16,373.00	90.44	270.740	6,391.86	530.76	-10,464.25	10,467.04	0.00	0.00	0.00

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well Anschutz Equus Farms 4-62-29-2532CS
Project:	Weld County, CO NAD 83	TVD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Site:	Anschutz Equus Farms 4-62-28_27 NWSW Pad [GOOD]	MD Reference:	GL 4624.3' & KB 20' @ 4644.30ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-29-2532CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
Projection to TD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
800.00	800.00	0.00	0.00	Casing Assumed Vertical
1,063.00	1,062.99	0.55	-1.53	First SDI MWD Survey
5,750.00	5,691.95	462.12	-188.16	Curve KOP
5,818.00	5,759.40	463.52	-196.16	First SDI MWD Curve Survey
6,639.00	6,301.23	457.31	-737.56	Last SDI MWD Curve Survey
6,694.00	6,302.98	449.34	-791.94	Casing Point
6,736.00	6,302.82	444.48	-833.66	First SDI MWD Lateral Survey
16,316.00	6,392.30	530.02	-10,407.26	Last SDI MWD Survey
16,373.00	6,391.86	530.76	-10,464.25	Projection to TD

Checked By: _____ Approved By: _____ Date: _____