



Project: Weld County, CO NAD 83  
Site: Anschutz Equus Farms 3-62-4\_5 CE2 Pad [GOOD]  
Well: Anschutz Equus Farm 3-62-4-2532XCN  
Wellbore: OH  
Design: OH

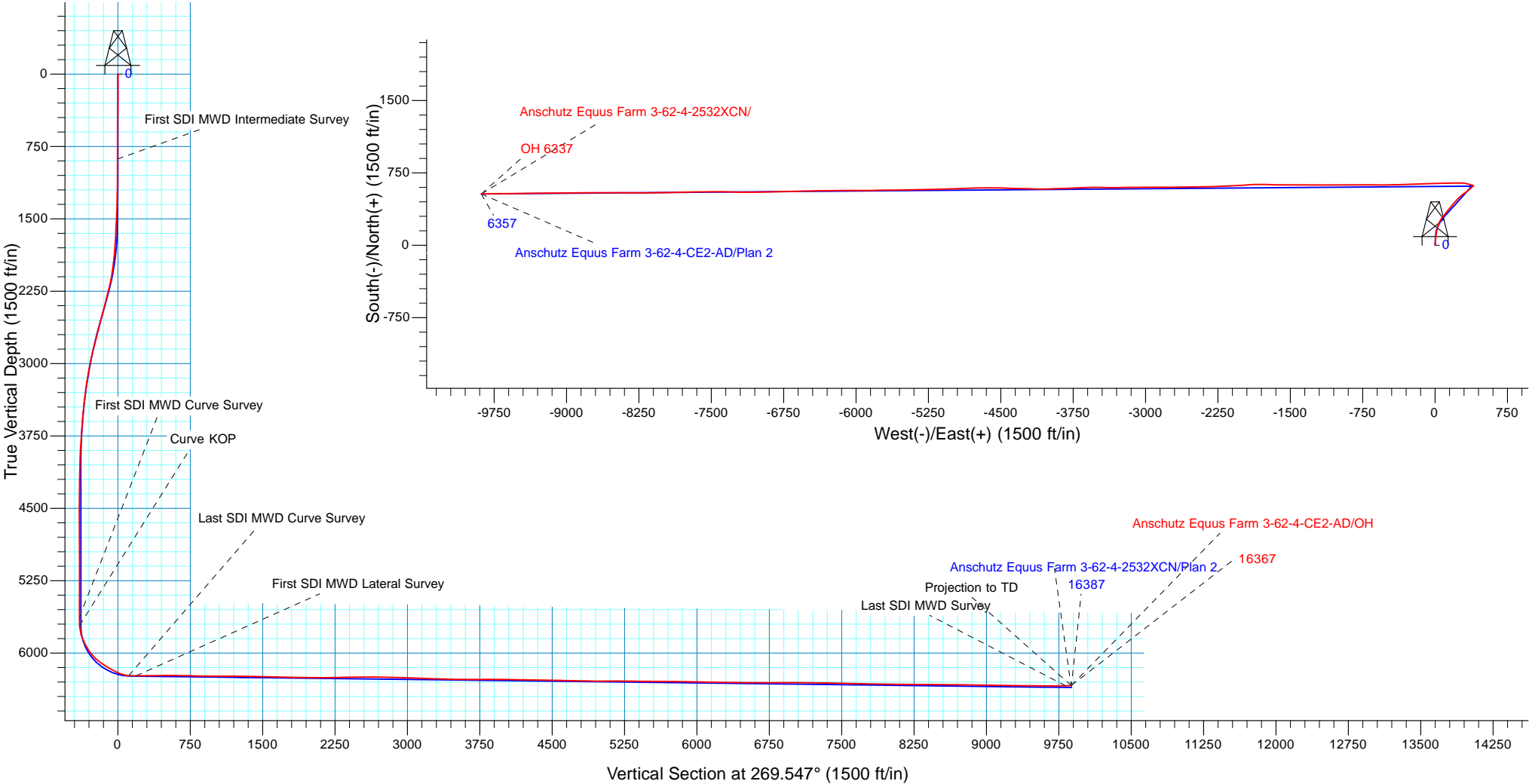


WELL DETAILS: Anschutz Equus Farm 3-62-4-CE2-AD			
GL 4612.6' & KB 20' @ 4632.60ft (Savanna 802)	4612.60		
Northing	Easting	Latitude	Longitude
1337858.38	3329197.15	40° 15' 17.316 N	104° 19' 13.795 W

Design: OH (Anschutz Equus Farm 3-62-4-CE2-AD/OH)	
Created By: Seth Burstad	Date: 12-11-2017

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	
880.75	882.00	5.01	1.780	39.29	3.65	-3.96	39.71	First SDI MWD Intermediate Survey	
5628.25	5728.00	0.55	9.990	617.24	394.75	-399.62	773.90	First SDI MWD Curve Survey	
5714.22	5814.00	2.71	304.935	618.81	393.16	-398.04	776.52	Curve KOP	
6233.69	6598.00	86.64	268.350	636.85	-117.36	112.32	1290.99	Last SDI MWD Curve Survey	
6235.69	6674.00	90.34	269.350	635.33	-193.30	188.27	1366.95	First SDI MWD Lateral Survey	
6338.83	16309.00	91.91	269.410	533.04	-9824.59	9820.07	11000.49	Last SDI MWD Survey	
6336.90	16367.00	91.91	269.410	532.45	-9882.56	9878.04	11058.46	Projection to TD	





**Bill Barrett Corporation**

## **Bill Barrett Corp.**

Weld County, CO NAD 83

Anschutz Equus Farms 3-62-4\_5 CE2 Pad [GOOD]

Anschutz Equus Farm 3-62-4-2532XCN

OH

Design: OH

## **Standard Survey Report**

11 December, 2017



**Scientific Drilling**

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



<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farm 3-62-4-2532XCXN GL
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802) GL
<b>Site:</b>	Anschutz Equus Farms 3-62-4_5 CE2 Pad [GOOD]	<b>MD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802)
<b>Well:</b>	Anschutz Equus Farm 3-62-4-2532XCXN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Casper District

<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	Anschutz Equus Farms 3-62-4_5 CE2 Pad [GOOD], Site Center : Anschutz Equus Farm 3-62-4-2532CN				
Site Position:		Northing:	1,337,842.68 usft	Latitude:	40° 15' 17.161 N
From:	Lat/Long	Easting:	3,329,197.84 usft	Longitude:	104° 19' 13.789 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.76 °

Well	Anschutz Equus Farm 3-62-4-2532XCXN					
Well Position	+N/-S	0.00 ft	Northing:	1,337,858.38 usft	Latitude:	40° 15' 17.316 N
	+E/-W	0.00 ft	Easting:	3,329,197.16 usft	Longitude:	104° 19' 13.795 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,612.60 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	12/2/2017	8.25	66.92	52,328

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<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		269.547

<b>Survey Program</b>	<b>Date</b>	12/11/2017			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
243.00	772.00	Survey #1 - Surface (OH)	OWSG MWD	OWSG MWD - Standard	
882.00	6,598.00	Survey #2 - Intermediate (OH)	OWSG MWD	OWSG MWD - Standard	
6,674.00	16,367.00	Survey #3 - Lateral (OH)	OWSG MWD	OWSG MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
243.00	0.84	13.720	242.99	1.73	0.42	-0.44	0.35	0.35	0.00	
426.00	3.27	9.280	425.86	8.19	1.58	-1.65	1.33	1.33	-2.43	
517.00	3.16	13.600	516.72	13.18	2.59	-2.69	0.29	-0.12	4.75	
608.00	3.44	9.490	607.57	18.32	3.63	-3.78	0.40	0.31	-4.52	
700.00	4.07	356.730	699.37	24.30	3.90	-4.09	1.13	0.68	-13.87	
772.00	4.82	358.130	771.15	29.87	3.66	-3.89	1.05	1.04	1.94	
882.00	5.01	1.780	880.75	39.29	3.65	-3.96	0.33	0.17	3.32	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farm 3-62-4-2532XCEN GL
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802) GL
<b>Site:</b>	Anschutz Equus Farms 3-62-4_5 CE2 Pad [GOOD]	<b>MD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802)
<b>Well:</b>	Anschutz Equus Farm 3-62-4-2532XCEN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)
<b>First SDI MWD Intermediate Survey</b>									
974.00	5.04	0.250	972.39	47.35	3.80	-4.17	0.15	0.03	-1.66
1,065.00	4.80	3.470	1,063.06	55.15	4.04	-4.48	0.40	-0.26	3.54
1,157.00	6.07	7.340	1,154.64	63.81	4.90	-5.40	1.44	1.38	4.21
1,247.00	8.74	6.270	1,243.89	75.33	6.25	-6.85	2.97	2.97	-1.19
1,338.00	10.68	5.690	1,333.58	90.60	7.84	-8.56	2.13	2.13	-0.64
1,430.00	12.11	8.430	1,423.76	108.63	10.10	-10.96	1.66	1.55	2.98
1,521.00	12.68	11.930	1,512.64	127.84	13.57	-14.58	1.04	0.63	3.85
1,613.00	13.09	13.050	1,602.33	147.87	18.01	-19.18	0.52	0.45	1.22
1,704.00	14.39	12.730	1,690.72	168.94	22.83	-24.16	1.43	1.43	-0.35
1,795.00	15.16	14.920	1,778.71	191.47	28.38	-29.90	1.05	0.85	2.41
1,887.00	15.36	18.510	1,867.47	214.64	35.35	-37.04	1.05	0.22	3.90
1,978.00	16.39	21.510	1,955.00	238.02	43.88	-45.76	1.45	1.13	3.30
2,070.00	15.89	31.700	2,043.39	260.82	55.26	-57.32	3.12	-0.54	11.08
2,161.00	17.46	38.580	2,130.57	282.09	70.32	-72.55	2.77	1.73	7.56
2,253.00	21.03	37.710	2,217.41	305.95	89.03	-91.45	3.89	3.88	-0.95
2,344.00	22.13	38.310	2,302.03	332.31	109.65	-112.27	1.23	1.21	0.66
2,437.00	22.73	39.730	2,388.00	359.88	131.99	-134.83	0.87	0.65	1.53
2,531.00	22.54	39.110	2,474.76	387.82	154.96	-158.02	0.32	-0.20	-0.66
2,625.00	22.27	38.950	2,561.66	415.66	177.53	-180.81	0.29	-0.29	-0.17
2,720.00	20.41	41.060	2,650.15	442.15	199.72	-203.21	2.12	-1.96	2.22
2,813.00	20.28	42.660	2,737.35	466.23	221.30	-224.98	0.61	-0.14	1.72
2,907.00	18.93	46.810	2,825.90	488.65	243.46	-247.31	2.06	-1.44	4.41
3,001.00	17.75	48.030	2,915.12	508.66	265.23	-269.24	1.32	-1.26	1.30
3,095.00	14.14	51.820	3,005.49	525.35	284.91	-289.06	3.99	-3.84	4.03
3,189.00	12.04	54.540	3,097.05	538.14	301.93	-306.17	2.33	-2.23	2.89
3,284.00	11.07	55.020	3,190.12	549.11	317.47	-321.80	1.03	-1.02	0.51
3,378.00	9.03	54.810	3,282.67	558.54	330.89	-335.30	2.17	-2.17	-0.22
3,472.00	7.70	47.850	3,375.67	567.02	341.59	-346.06	1.78	-1.41	-7.40
3,566.00	6.95	47.890	3,468.91	575.06	350.48	-355.02	0.80	-0.80	0.04
3,660.00	6.84	46.880	3,562.23	582.70	358.78	-363.38	0.17	-0.12	-1.07
3,754.00	5.66	47.110	3,655.67	589.68	366.27	-370.92	1.26	-1.26	0.24
3,848.00	5.23	52.920	3,749.24	595.41	373.08	-377.78	0.74	-0.46	6.18
3,942.00	5.06	53.100	3,842.86	600.49	379.81	-384.55	0.18	-0.18	0.19
4,036.00	3.22	38.290	3,936.62	605.05	384.77	-389.54	2.25	-1.96	-15.76
4,130.00	2.21	43.860	4,030.51	608.43	387.66	-392.46	1.11	-1.07	5.93
4,224.00	1.84	52.010	4,124.45	610.66	390.10	-394.92	0.50	-0.39	8.67
4,318.00	2.01	36.230	4,218.40	612.92	392.27	-397.10	0.59	0.18	-16.79
4,412.00	2.29	41.930	4,312.33	615.65	394.50	-399.35	0.37	0.30	6.06
4,506.00	1.30	37.120	4,406.29	617.90	396.39	-401.27	1.06	-1.05	-5.12
4,600.00	0.94	253.600	4,500.28	618.53	396.30	-401.18	2.27	-0.38	-152.68
4,694.00	0.73	219.910	4,594.27	617.85	395.17	-400.05	0.56	-0.22	-35.84
4,788.00	0.60	240.040	4,688.26	617.15	394.36	-399.23	0.28	-0.14	21.41

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farm 3-62-4-CE2-AD
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4612.6' & KB 20' @ 4632.60ft (Savanna 802)
<b>Site:</b>	Anschutz Equus Farms 3-62-4_5 CE2 Pad [GOOD]	<b>MD Reference:</b>	GL 4612.6' & KB 20' @ 4632.60ft (Savanna 802)
<b>Well:</b>	Anschutz Equus Farm 3-62-4-2532XC�	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)
4,882.00	0.19	223.270	4,782.26	616.79	393.83	-398.69	0.45	-0.44	-17.84
4,976.00	0.07	247.480	4,876.26	616.65	393.67	-398.53	0.14	-0.13	25.76
5,070.00	0.11	215.810	4,970.26	616.56	393.56	-398.43	0.07	0.04	-33.69
5,165.00	0.24	49.420	5,065.26	616.61	393.66	-398.52	0.37	0.14	-175.15
5,259.00	0.21	140.230	5,159.26	616.61	393.92	-398.78	0.34	-0.03	96.61
5,353.00	0.34	146.910	5,253.26	616.24	394.18	-399.04	0.14	0.14	7.11
5,446.00	0.29	47.350	5,346.26	616.17	394.51	-399.37	0.52	-0.05	-107.05
5,540.00	0.09	260.490	5,440.26	616.32	394.61	-399.47	0.39	-0.21	-156.23
5,634.00	0.31	15.720	5,534.26	616.55	394.61	-399.47	0.38	0.23	122.59
5,728.00	0.55	9.990	5,628.25	617.24	394.75	-399.62	0.26	0.26	-6.10
First SDI MWD Curve Survey									
5,814.00	2.71	304.935	5,714.22	618.81	393.16	-398.04	2.94	2.51	-75.65
Curve KOP									
5,822.00	2.94	304.030	5,722.21	619.03	392.83	-397.72	2.94	2.89	-11.31
5,915.00	18.27	288.470	5,813.36	625.02	376.93	-381.86	16.62	16.48	-16.73
6,010.00	28.60	286.120	5,900.40	636.08	340.87	-345.89	10.92	10.87	-2.47
6,104.00	34.03	275.350	5,980.74	644.80	292.99	-298.08	8.28	5.78	-11.46
6,198.00	46.22	267.020	6,052.54	645.49	232.64	-237.74	14.15	12.97	-8.86
6,293.00	57.14	269.800	6,111.36	643.56	158.26	-163.35	11.72	11.49	2.93
6,387.00	59.06	268.460	6,161.03	642.34	78.47	-83.55	2.37	2.04	-1.43
6,480.00	65.50	268.750	6,204.27	640.34	-3.78	-1.28	6.93	6.92	0.31
6,574.00	81.17	267.840	6,231.14	637.64	-93.51	88.47	16.70	16.67	-0.97
6,598.00	86.64	268.350	6,233.69	636.85	-117.36	112.32	22.89	22.79	2.13
Last SDI MWD Curve Survey									
6,674.00	90.34	269.350	6,235.69	635.33	-193.30	188.27	5.04	4.87	1.32
First SDI MWD Lateral Survey									
6,768.00	90.37	266.310	6,235.11	631.77	-287.22	282.22	3.23	0.03	-3.23
6,862.00	90.60	267.850	6,234.31	626.98	-381.09	376.12	1.66	0.24	1.64
6,956.00	90.84	269.440	6,233.13	624.76	-475.05	470.10	1.71	0.26	1.69
7,049.00	89.73	270.970	6,232.67	625.09	-568.05	563.09	2.03	-1.19	1.65
7,143.00	88.49	270.290	6,234.13	626.12	-662.03	657.06	1.50	-1.32	-0.72
7,237.00	88.69	269.560	6,236.44	626.00	-756.00	751.03	0.80	0.21	-0.78
7,331.00	89.13	269.680	6,238.23	625.38	-849.98	845.01	0.49	0.47	0.13
7,425.00	89.87	270.390	6,239.05	625.43	-943.98	939.00	1.09	0.79	0.76
7,519.00	89.26	270.910	6,239.76	626.50	-1,037.97	1,032.98	0.85	-0.65	0.55
7,613.00	89.53	269.260	6,240.76	626.64	-1,131.96	1,126.97	1.78	0.29	-1.76
7,706.00	89.02	269.630	6,241.93	625.74	-1,224.95	1,219.96	0.68	-0.55	0.40
7,800.00	89.87	269.780	6,242.84	625.25	-1,318.94	1,313.95	0.92	0.90	0.16
7,895.00	88.89	270.430	6,243.87	625.43	-1,413.93	1,408.94	1.24	-1.03	0.68
7,988.00	89.40	269.750	6,245.26	625.57	-1,506.92	1,501.93	0.91	0.55	-0.73
8,081.00	88.69	270.780	6,246.81	626.00	-1,599.90	1,594.90	1.35	-0.76	1.11
8,175.00	89.16	271.800	6,248.57	628.12	-1,693.86	1,688.84	1.19	0.50	1.09
8,269.00	88.76	270.660	6,250.28	630.14	-1,787.82	1,782.79	1.29	-0.43	-1.21

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farm 3-62-4-2532XCEN GL
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802) GL
<b>Site:</b>	Anschutz Equus Farms 3-62-4_5 CE2 Pad [GOOD]	<b>MD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802)
<b>Well:</b>	Anschutz Equus Farm 3-62-4-2532XCEN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)
8,363.00	88.59	267.840	6,252.45	628.91	-1,881.78	1,876.75	3.00	-0.18	-3.00
8,457.00	88.66	266.730	6,254.71	624.46	-1,975.65	1,970.65	1.18	0.07	-1.18
8,557.00	88.76	266.470	6,256.96	618.53	-2,075.45	2,070.49	0.28	0.10	-0.26
8,645.00	91.04	267.290	6,257.11	613.74	-2,163.31	2,158.39	2.75	2.59	0.93
8,738.00	91.34	267.450	6,255.18	609.47	-2,256.19	2,251.30	0.37	0.32	0.17
8,832.00	91.65	268.300	6,252.73	605.99	-2,350.09	2,345.23	0.96	0.33	0.90
8,926.00	90.40	269.350	6,251.05	604.06	-2,444.05	2,439.20	1.74	-1.33	1.12
9,020.00	90.94	269.550	6,249.95	603.16	-2,538.04	2,533.20	0.61	0.57	0.21
9,114.00	90.74	270.040	6,248.57	602.82	-2,632.03	2,627.18	0.56	-0.21	0.52
9,208.00	87.98	269.940	6,249.62	602.80	-2,726.02	2,721.17	2.94	-2.94	-0.11
9,302.00	88.69	269.240	6,252.35	602.13	-2,819.97	2,815.13	1.06	0.76	-0.74
9,396.00	88.96	269.770	6,254.28	601.32	-2,913.95	2,909.11	0.63	0.29	0.56
9,490.00	87.82	269.640	6,256.92	600.84	-3,007.91	3,003.07	1.22	-1.21	-0.14
9,584.00	87.76	269.570	6,260.55	600.19	-3,101.84	3,097.00	0.10	-0.06	-0.07
9,678.00	87.82	269.360	6,264.17	599.31	-3,195.76	3,190.93	0.23	0.06	-0.22
9,772.00	88.19	269.840	6,267.44	598.66	-3,289.70	3,284.87	0.64	0.39	0.51
9,867.00	88.49	270.160	6,270.19	598.66	-3,384.66	3,379.83	0.46	0.32	0.34
9,961.00	88.76	270.940	6,272.45	599.56	-3,478.63	3,473.78	0.88	0.29	0.83
10,055.00	89.26	268.120	6,274.07	598.79	-3,572.61	3,567.76	3.05	0.53	-3.00
10,149.00	89.83	268.210	6,274.82	595.78	-3,666.55	3,661.73	0.61	0.61	0.10
10,242.00	90.30	267.740	6,274.72	592.49	-3,759.50	3,754.69	0.71	0.51	-0.51
10,337.00	90.57	268.100	6,273.99	589.04	-3,854.43	3,849.65	0.47	0.28	0.38
10,428.00	89.33	267.830	6,274.07	585.81	-3,945.37	3,940.62	1.39	-1.36	-0.30
10,519.00	89.33	269.170	6,275.14	583.43	-4,036.33	4,031.59	1.47	0.00	1.47
10,611.00	89.06	270.770	6,276.43	583.38	-4,128.32	4,123.58	1.76	-0.29	1.74
10,702.00	89.23	271.580	6,277.79	585.25	-4,219.29	4,214.53	0.91	0.19	0.89
10,793.00	89.16	271.680	6,279.07	587.84	-4,310.24	4,305.46	0.13	-0.08	0.11
10,885.00	89.33	271.810	6,280.28	590.64	-4,402.19	4,397.38	0.23	0.18	0.14
10,976.00	88.55	271.700	6,281.96	593.42	-4,493.13	4,488.30	0.87	-0.86	-0.12
11,067.00	88.39	270.400	6,284.39	595.09	-4,584.08	4,579.24	1.44	-0.18	-1.43
11,158.00	89.23	270.070	6,286.28	595.46	-4,675.06	4,670.21	0.99	0.92	-0.36
11,250.00	88.69	268.150	6,287.95	594.04	-4,767.03	4,762.19	2.17	-0.59	-2.09
11,341.00	88.93	267.590	6,289.84	590.65	-4,857.95	4,853.13	0.67	0.26	-0.62
11,432.00	89.63	267.660	6,290.99	586.88	-4,948.86	4,944.07	0.77	0.77	0.08
11,523.00	90.24	268.140	6,291.09	583.55	-5,039.80	5,035.03	0.85	0.67	0.53
11,615.00	90.54	268.140	6,290.46	580.56	-5,131.75	5,127.00	0.33	0.33	0.00
11,706.00	89.30	268.650	6,290.59	578.01	-5,222.71	5,217.98	1.47	-1.36	0.56
11,798.00	90.03	269.280	6,291.13	576.35	-5,314.69	5,309.97	1.05	0.79	0.68
11,889.00	88.79	269.120	6,292.06	575.08	-5,405.68	5,400.96	1.37	-1.36	-0.18
11,980.00	89.70	268.780	6,293.26	573.41	-5,496.65	5,491.95	1.07	1.00	-0.37
12,072.00	88.42	269.100	6,294.77	571.71	-5,588.62	5,583.93	1.43	-1.39	0.35
12,163.00	89.33	269.150	6,296.56	570.32	-5,679.60	5,674.91	1.00	1.00	0.05

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farm 3-62-4-2532XCXN GL
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802) GL
<b>Site:</b>	Anschutz Equus Farms 3-62-4_5 CE2 Pad [GOOD]	<b>MD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802)
<b>Well:</b>	Anschutz Equus Farm 3-62-4-2532XCXN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)
12,254.00	90.40	269.340	6,296.77	569.12	-5,770.59	5,765.91	1.19	1.18	0.21
12,346.00	89.16	269.730	6,297.13	568.38	-5,862.58	5,857.90	1.41	-1.35	0.42
12,437.00	90.13	269.960	6,297.69	568.13	-5,953.58	5,948.90	1.10	1.07	0.25
12,529.00	89.16	269.710	6,298.26	567.87	-6,045.57	6,040.89	1.09	-1.05	-0.27
12,620.00	88.06	269.330	6,300.47	567.10	-6,136.54	6,131.87	1.28	-1.21	-0.42
12,711.00	88.12	269.950	6,303.50	566.53	-6,227.49	6,222.82	0.68	0.07	0.68
12,802.00	88.79	269.340	6,305.96	565.97	-6,318.45	6,313.78	1.00	0.74	-0.67
12,894.00	89.70	269.180	6,307.17	564.78	-6,410.44	6,405.77	1.00	0.99	-0.17
12,986.00	91.04	268.720	6,306.57	563.10	-6,502.42	6,497.76	1.54	1.46	-0.50
13,077.00	89.63	268.160	6,306.04	560.62	-6,593.38	6,588.74	1.67	-1.55	-0.62
13,168.00	89.50	268.590	6,306.73	558.04	-6,684.34	6,679.72	0.49	-0.14	0.47
13,260.00	89.90	268.440	6,307.21	555.65	-6,776.31	6,771.70	0.46	0.43	-0.16
13,352.00	91.11	268.800	6,306.40	553.44	-6,868.28	6,863.68	1.37	1.32	0.39
13,444.00	89.23	269.280	6,306.13	551.90	-6,960.26	6,955.68	2.11	-2.04	0.52
13,535.00	89.90	269.250	6,306.82	550.73	-7,051.25	7,046.67	0.74	0.74	-0.03
13,626.00	88.66	269.960	6,307.96	550.10	-7,142.24	7,137.66	1.57	-1.36	0.78
13,717.00	88.82	271.770	6,309.97	551.48	-7,233.20	7,228.61	2.00	0.18	1.99
13,809.00	88.99	270.630	6,311.72	553.40	-7,325.16	7,320.56	1.25	0.18	-1.24
13,901.00	89.46	270.150	6,312.97	554.03	-7,417.15	7,412.54	0.73	0.51	-0.52
13,992.00	88.93	269.680	6,314.25	553.89	-7,508.14	7,503.53	0.78	-0.58	-0.52
14,084.00	89.63	269.540	6,315.40	553.27	-7,600.13	7,595.52	0.78	0.76	-0.15
14,175.00	88.56	270.150	6,316.84	553.02	-7,691.12	7,686.50	1.35	-1.18	0.67
14,267.00	88.35	269.020	6,319.32	552.35	-7,783.08	7,778.47	1.25	-0.23	-1.23
14,359.00	88.36	266.950	6,321.96	549.12	-7,874.98	7,870.39	2.25	0.01	-2.25
14,450.00	88.76	268.790	6,324.25	545.74	-7,965.88	7,961.32	2.07	0.44	2.02
14,542.00	89.53	269.490	6,325.62	544.36	-8,057.86	8,053.31	1.13	0.84	0.76
14,634.00	90.20	269.110	6,325.84	543.24	-8,149.85	8,145.30	0.84	0.73	-0.41
14,726.00	89.29	270.870	6,326.25	543.22	-8,241.85	8,237.30	2.15	-0.99	1.91
14,817.00	89.56	270.780	6,327.16	544.53	-8,332.83	8,328.27	0.31	0.30	-0.10
14,909.00	90.50	269.860	6,327.11	545.04	-8,424.83	8,420.26	1.43	1.02	-1.00
15,000.00	89.33	269.840	6,327.25	544.81	-8,515.83	8,511.26	1.29	-1.29	-0.02
15,092.00	89.73	269.540	6,328.00	544.31	-8,607.82	8,603.25	0.54	0.43	-0.33
15,183.00	89.13	269.890	6,328.91	543.85	-8,698.82	8,694.25	0.76	-0.66	0.38
15,275.00	88.86	270.250	6,330.52	543.97	-8,790.80	8,786.23	0.49	-0.29	0.39
15,366.00	90.00	270.000	6,331.43	544.17	-8,881.80	8,877.22	1.28	1.25	-0.27
15,458.00	89.03	269.340	6,332.21	543.64	-8,973.79	8,969.21	1.28	-1.05	-0.72
15,549.00	89.43	269.480	6,333.43	542.70	-9,064.78	9,060.20	0.47	0.44	0.15
15,641.00	88.12	268.760	6,335.40	541.29	-9,156.74	9,152.18	1.62	-1.42	-0.78
15,732.00	88.49	268.830	6,338.09	539.37	-9,247.68	9,243.13	0.41	0.41	0.08
15,825.00	89.33	269.840	6,339.86	538.29	-9,340.66	9,336.11	1.41	0.90	1.09
15,919.00	90.24	269.600	6,340.21	537.84	-9,434.65	9,430.11	1.00	0.97	-0.26
16,013.00	89.33	269.250	6,340.56	536.89	-9,528.65	9,524.11	1.04	-0.97	-0.37
16,106.00	89.80	269.200	6,341.27	535.63	-9,621.64	9,617.10	0.51	0.51	-0.05

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Anschutz Equus Farm 3-62-4-2532XCN GL
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802) GL
<b>Site:</b>	Anschutz Equus Farms 3-62-4_5 CE2 Pad [GOOD]	<b>MD Reference:</b>	4612.6' & KB 20' @ 4632.60ft (Savanna 802)
<b>Well:</b>	Anschutz Equus Farm 3-62-4-2532XCN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
16,200.00	90.44	269.250	6,341.07	534.36	-9,715.63	9,711.10	0.68	0.68	0.05	
16,294.00	91.71	269.340	6,339.31	533.21	-9,809.60	9,805.08	1.35	1.35	0.10	
16,309.00	91.91	269.410	6,338.83	533.04	-9,824.59	9,820.07	1.41	1.33	0.47	
Last SDI MWD Survey										
16,367.00	91.91	269.410	6,336.90	532.45	-9,882.56	9,878.04	0.00	0.00	0.00	
Projection to TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
882.00	880.75	39.29	3.65	First SDI MWD Intermediate Survey	
5,728.00	5,628.25	617.24	394.75	First SDI MWD Curve Survey	
5,814.00	5,714.22	618.81	393.16	Curve KOP	
6,598.00	6,233.69	636.85	-117.36	Last SDI MWD Curve Survey	
6,674.00	6,235.69	635.33	-193.30	First SDI MWD Lateral Survey	
16,309.00	6,338.83	533.04	-9,824.59	Last SDI MWD Survey	
16,367.00	6,336.90	532.45	-9,882.56	Projection to TD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_