

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 5-62-26_25 SE27
Well: Anschutz State 5-62-26-6457CN
Wellbore: OH
Design: Plan 1



Azimuths to True North
Magnetic North: 8.20°



Magnetic Field
Strength: 52306.2nT
Dip Angle: 67.02°
Date: 9/18/2017
Model: HDGM

Plan: Plan 1 (Anschutz State 5-62-26-6457CN/OH)

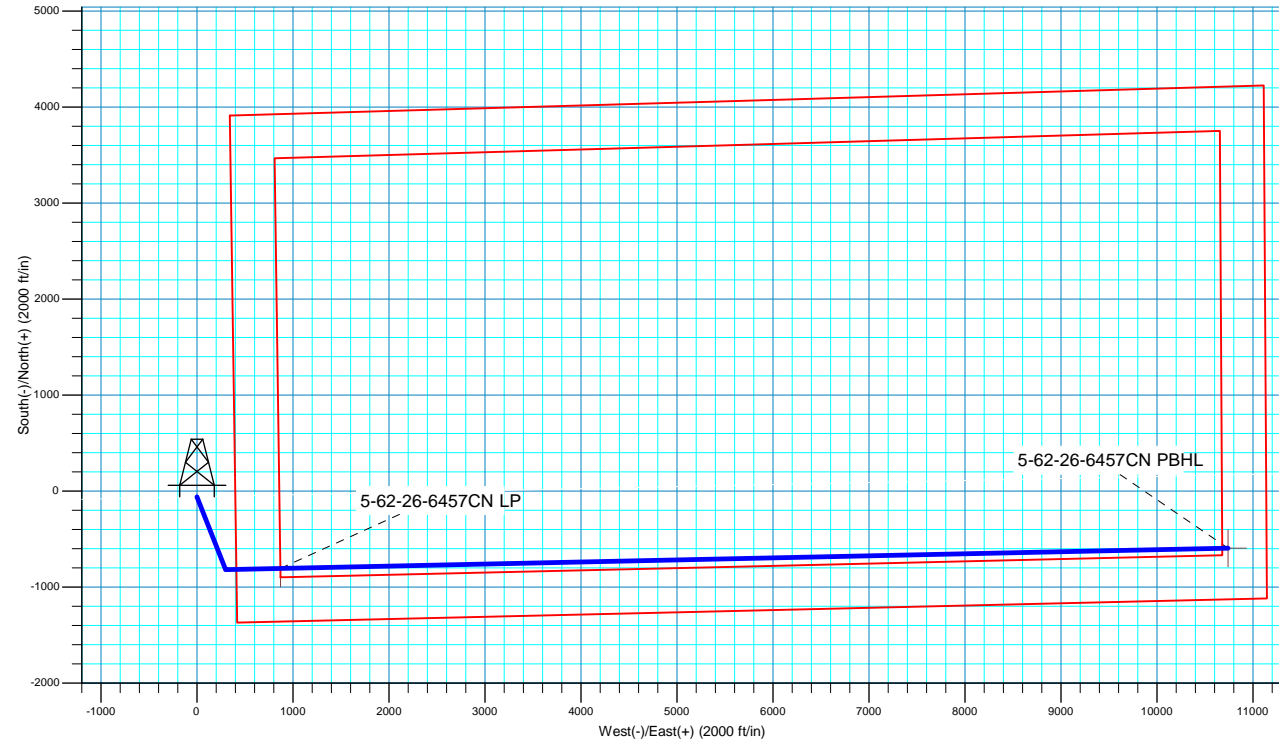
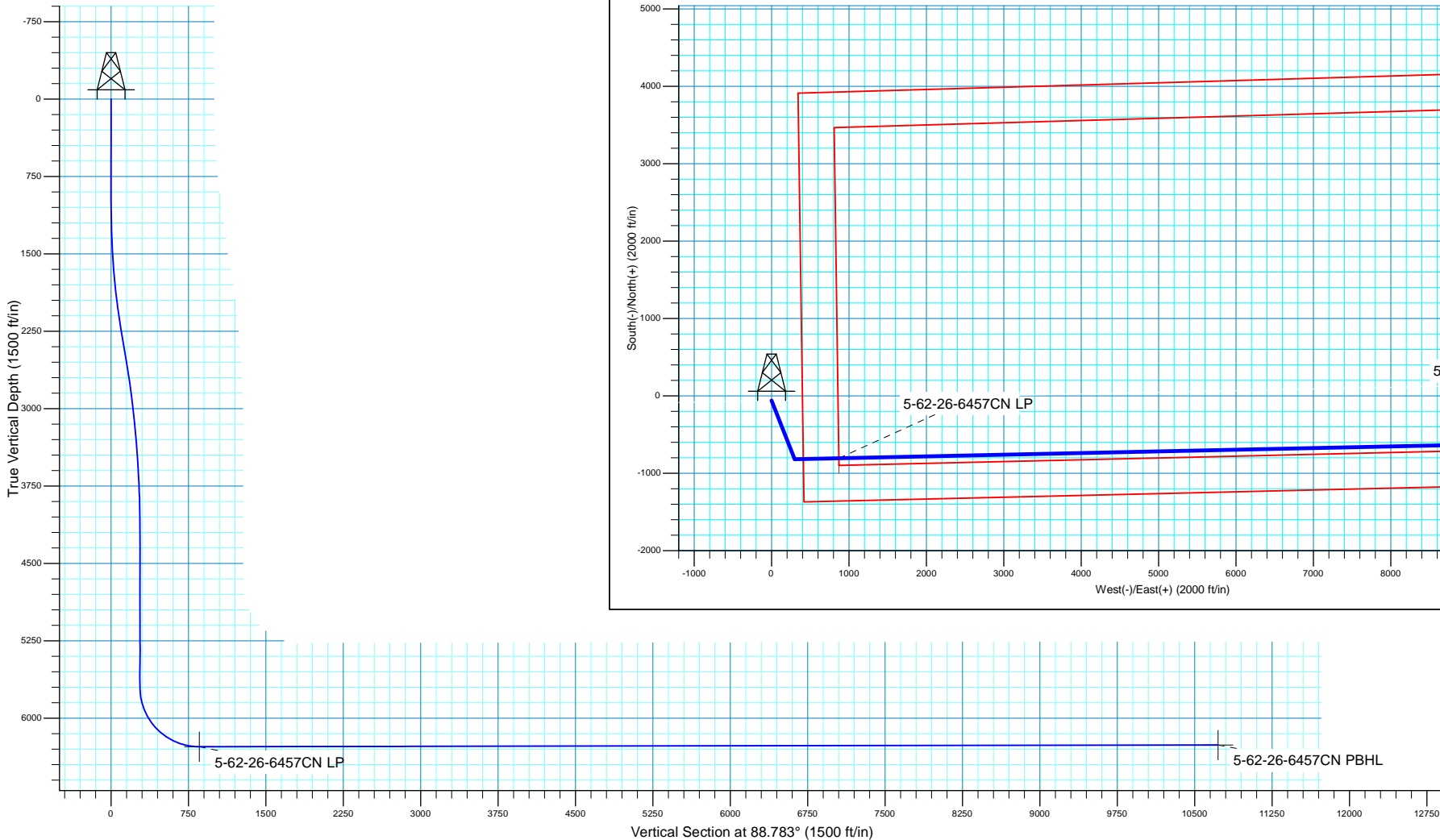
Created By: Seth Burstad Date: 9-18-2017

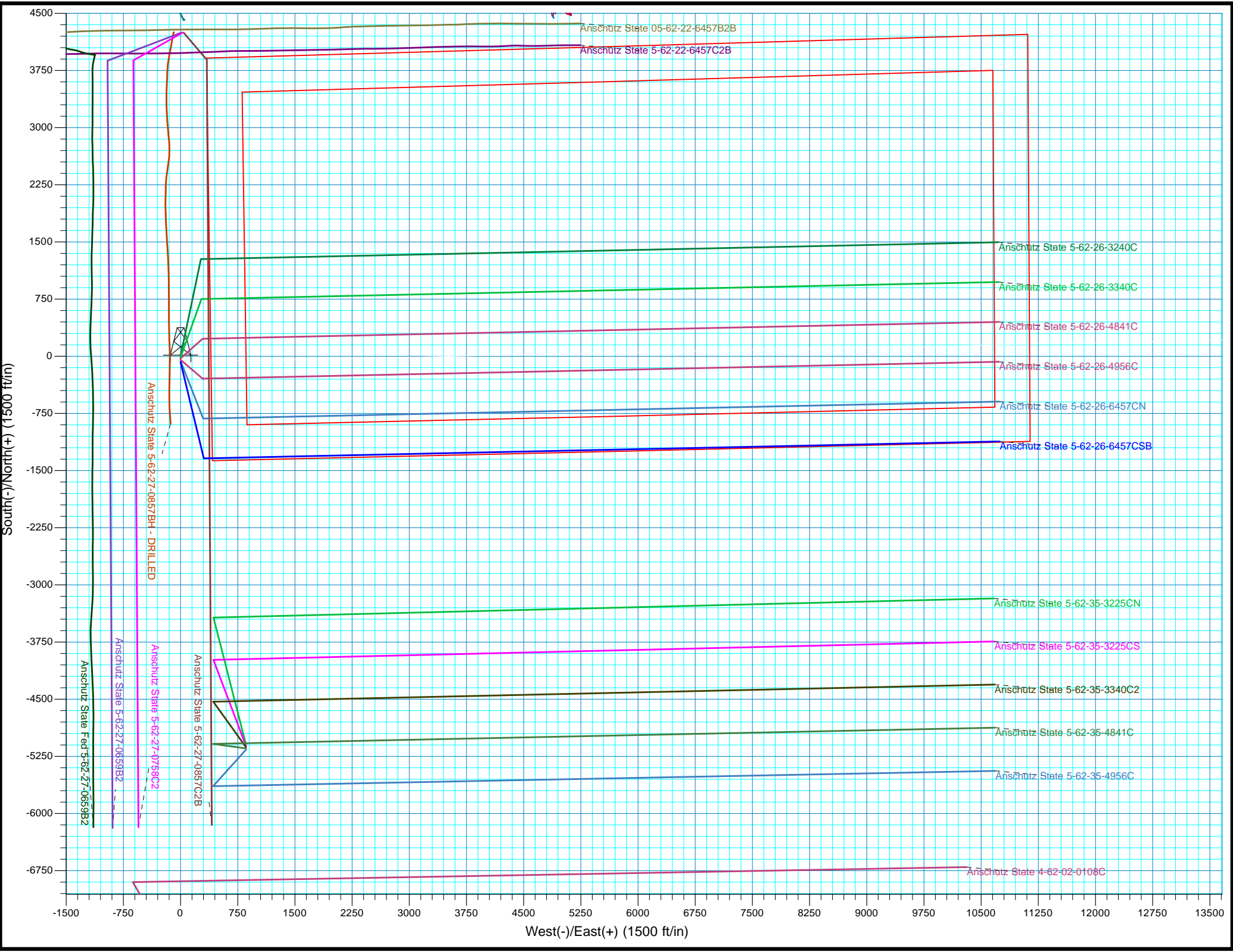
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.000	0.00	-59.76	0.84	0.00	0.00	0.00
1000.00	0.00	0.000	1000.00	-59.76	0.84	0.00	0.00	0.00
2304.42	26.09	158.574	2259.81	-331.46	107.46	2.00	158.57	100.83
2604.44	26.09	158.574	2529.26	-454.28	155.66	0.00	0.00	146.41
4343.66	0.00	0.000	4209.01	-816.55	297.82	1.50	180.00	280.84
5837.69	0.00	0.000	5703.04	-816.55	297.82	0.00	0.00	280.84
6738.68	90.10	88.783	6276.00	-804.36	871.63	10.00	88.78	854.79
16610.74	90.10	88.783	6259.00	-594.74	10741.46	0.00	0.00	10726.84

WELL DETAILS: Anschutz State 5-62-26-6457CN

		GL 4656.1' & KB 20' @ 4676.10ft		4656.10		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
-59.76	0.84	1378884.05	3333927.94	40° 22' 2.078 N	104° 18' 5.630 W	







Bill Barrett Corporation

Bill Barrett Corp.

Weld County, CO NAD 83

Anschutz State 5-62-26_25 SE27

Anschutz State 5-62-26-6457CN

OH

Plan: Plan 1

Standard Planning Report

18 September, 2017



Scientific Drilling

www.scientificdrilling.com



Database:	Casper District	Local Co-ordinate Reference:	Site Anschutz State 5-62-26_25 SE27
Company:	Bill Barrett Corp.	TVD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Site:	Anschutz State 5-62-26_25 SE27	North Reference:	True
Well:	Anschutz State 5-62-26-6457CN	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 State 5-62-26_25 SE27, Site Center : Anschutz State 5-62-26-3240C			
Site Position:		Northing:	1,378,943.80 usft	Latitude: 40° 22' 2.669 N
From:	Lat/Long	Easting:	3,333,926.31 usft	Longitude: 104° 18' 5.641 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.77 °

Well	Anschutz State 5-62-26-6457CN, 1315' FSL 400' FEL Sec 27 T5N R62W			
Well Position	+N/-S	-59.76 ft	Northing:	1,378,884.05 usft
	+E/-W	0.84 ft	Easting:	3,333,927.95 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft
			Ground Level:	4,656.10 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/18/2017	8.20	67.02	52,306

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	-59.76	0.84	88.783

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	-59.76	0.84	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	-59.76	0.84	0.00	0.00	0.00	0.00	
2,304.42	26.09	158.574	2,259.81	-331.46	107.46	2.00	2.00	0.00	158.57	
2,604.44	26.09	158.574	2,529.26	-454.28	155.66	0.00	0.00	0.00	0.00	
4,343.66	0.00	0.000	4,209.01	-816.55	297.82	1.50	-1.50	0.00	180.00	
5,837.69	0.00	0.000	5,703.04	-816.55	297.82	0.00	0.00	0.00	0.00	
6,738.68	90.10	88.783	6,276.00	-804.36	871.63	10.00	10.00	9.85	88.78	
16,610.74	90.10	88.783	6,259.00	-594.74	10,741.46	0.00	0.00	0.00	0.00	5-62-26-6457CN PBI-

Database:	Casper District	Local Co-ordinate Reference:	Site Anschutz State 5-62-26_25 SE27
Company:	Bill Barrett Corp.	TVD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Site:	Anschutz State 5-62-26_25 SE27	North Reference:	True
Well:	Anschutz State 5-62-26-6457CN	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	-59.76	0.84	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	-59.76	0.84	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	-59.76	0.84	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	-59.76	0.84	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	-59.76	0.84	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	-59.76	0.84	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	-59.76	0.84	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	-59.76	0.84	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	-59.76	0.84	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	-59.76	0.84	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	-59.76	0.84	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	2.00	158.574	1,099.98	-61.39	1.47	0.60	2.00	2.00	0.00
1,200.00	4.00	158.574	1,199.84	-66.26	3.39	2.41	2.00	2.00	0.00
1,300.00	6.00	158.574	1,299.45	-74.37	6.57	5.42	2.00	2.00	0.00
1,400.00	8.00	158.574	1,398.70	-85.71	11.02	9.63	2.00	2.00	0.00
1,500.00	10.00	158.574	1,497.47	-100.28	16.73	15.03	2.00	2.00	0.00
1,600.00	12.00	158.574	1,595.62	-118.04	23.70	21.63	2.00	2.00	0.00
1,700.00	14.00	158.574	1,693.06	-138.98	31.92	29.40	2.00	2.00	0.00
1,800.00	16.00	158.574	1,789.64	-163.07	41.38	38.34	2.00	2.00	0.00
1,900.00	18.00	158.574	1,885.27	-190.28	52.06	48.44	2.00	2.00	0.00
2,000.00	20.00	158.574	1,979.82	-220.59	63.95	59.68	2.00	2.00	0.00
2,100.00	22.00	158.574	2,073.17	-253.95	77.04	72.06	2.00	2.00	0.00
2,200.00	24.00	158.574	2,165.21	-290.32	91.31	85.56	2.00	2.00	0.00
2,300.00	26.00	158.574	2,255.84	-329.66	106.75	100.16	2.00	2.00	0.00
2,304.42	26.09	158.574	2,259.81	-331.46	107.46	100.83	2.00	2.00	0.00
Start 300.02 hold at 2304.42 MD									
2,400.00	26.09	158.574	2,345.65	-370.59	122.81	115.35	0.00	0.00	0.00
2,500.00	26.09	158.574	2,435.47	-411.53	138.88	130.54	0.00	0.00	0.00
2,600.00	26.09	158.574	2,525.28	-452.46	154.94	145.73	0.00	0.00	0.00
2,604.44	26.09	158.574	2,529.26	-454.28	155.66	146.41	0.00	0.00	0.00
Start Drop -1.50									
2,700.00	24.65	158.574	2,615.61	-492.40	170.61	160.55	1.50	-1.50	0.00
2,800.00	23.15	158.574	2,707.03	-530.12	185.42	174.55	1.50	-1.50	0.00
2,900.00	21.65	158.574	2,799.47	-565.60	199.34	187.72	1.50	-1.50	0.00
3,000.00	20.15	158.574	2,892.89	-598.81	212.37	200.04	1.50	-1.50	0.00
3,100.00	18.65	158.574	2,987.21	-629.74	224.51	211.52	1.50	-1.50	0.00
3,200.00	17.15	158.574	3,082.36	-658.36	235.74	222.14	1.50	-1.50	0.00
3,300.00	15.65	158.574	3,178.29	-684.65	246.06	231.89	1.50	-1.50	0.00
3,400.00	14.15	158.574	3,274.92	-708.59	255.45	240.78	1.50	-1.50	0.00
3,500.00	12.65	158.574	3,372.19	-730.17	263.92	248.79	1.50	-1.50	0.00
3,600.00	11.15	158.574	3,470.04	-749.37	271.46	255.91	1.50	-1.50	0.00
3,700.00	9.65	158.574	3,568.39	-766.18	278.06	262.15	1.50	-1.50	0.00
3,800.00	8.15	158.574	3,667.18	-780.59	283.71	267.50	1.50	-1.50	0.00
3,900.00	6.65	158.574	3,766.35	-792.59	288.42	271.95	1.50	-1.50	0.00
4,000.00	5.15	158.574	3,865.81	-802.17	292.18	275.51	1.50	-1.50	0.00
4,100.00	3.65	158.574	3,965.51	-809.32	294.98	278.16	1.50	-1.50	0.00
4,200.00	2.15	158.574	4,065.38	-814.03	296.83	279.91	1.50	-1.50	0.00
4,300.00	0.65	158.574	4,165.35	-816.32	297.73	280.76	1.50	-1.50	0.00
4,343.66	0.00	0.000	4,209.01	-816.55	297.82	280.84	1.50	-1.50	0.00
Start 1494.03 hold at 4343.66 MD									
4,400.00	0.00	0.000	4,265.35	-816.55	297.82	280.84	0.00	0.00	0.00
4,500.00	0.00	0.000	4,365.35	-816.55	297.82	280.84	0.00	0.00	0.00
4,600.00	0.00	0.000	4,465.35	-816.55	297.82	280.84	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Site Anschutz State 5-62-26_25 SE27
Company:	Bill Barrett Corp.	TVD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Site:	Anschutz State 5-62-26_25 SE27	North Reference:	True
Well:	Anschutz State 5-62-26-6457CN	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	4,565.35	-816.55	297.82	280.84	0.00	0.00	0.00
4,800.00	0.00	0.000	4,665.35	-816.55	297.82	280.84	0.00	0.00	0.00
4,900.00	0.00	0.000	4,765.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,000.00	0.00	0.000	4,865.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,100.00	0.00	0.000	4,965.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,200.00	0.00	0.000	5,065.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,300.00	0.00	0.000	5,165.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,400.00	0.00	0.000	5,265.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,500.00	0.00	0.000	5,365.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,600.00	0.00	0.000	5,465.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,700.00	0.00	0.000	5,565.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,800.00	0.00	0.000	5,665.35	-816.55	297.82	280.84	0.00	0.00	0.00
5,837.69	0.00	0.000	5,703.04	-816.55	297.82	280.84	0.00	0.00	0.00
Start DLS 10.00 TFO 88.78									
5,900.00	6.23	88.783	5,765.23	-816.48	301.20	284.23	10.00	10.00	0.00
6,000.00	16.23	88.783	5,863.19	-816.06	320.65	303.68	10.00	10.00	0.00
6,100.00	26.23	88.783	5,956.28	-815.30	356.81	339.85	10.00	10.00	0.00
6,200.00	36.23	88.783	6,041.68	-814.20	408.58	391.63	10.00	10.00	0.00
6,300.00	46.23	88.783	6,116.79	-812.80	474.39	457.45	10.00	10.00	0.00
6,400.00	56.23	88.783	6,179.33	-811.14	552.24	535.32	10.00	10.00	0.00
6,500.00	66.23	88.783	6,227.40	-809.29	639.77	622.87	10.00	10.00	0.00
6,600.00	76.23	88.783	6,259.53	-807.28	734.31	717.43	10.00	10.00	0.00
6,700.00	86.23	88.783	6,274.76	-805.18	832.99	816.14	10.00	10.00	0.00
6,738.68	90.10	88.783	6,276.00	-804.36	871.63	854.79	10.00	10.00	0.00
Start 9872.06 hold at 6738.68 MD									
6,800.00	90.10	88.783	6,275.89	-803.06	932.94	916.11	0.00	0.00	0.00
6,900.00	90.10	88.783	6,275.72	-800.94	1,032.92	1,016.11	0.00	0.00	0.00
7,000.00	90.10	88.783	6,275.55	-798.81	1,132.90	1,116.11	0.00	0.00	0.00
7,100.00	90.10	88.783	6,275.37	-796.69	1,232.87	1,216.11	0.00	0.00	0.00
7,200.00	90.10	88.783	6,275.20	-794.57	1,332.85	1,316.11	0.00	0.00	0.00
7,300.00	90.10	88.783	6,275.03	-792.44	1,432.83	1,416.11	0.00	0.00	0.00
7,400.00	90.10	88.783	6,274.86	-790.32	1,532.81	1,516.11	0.00	0.00	0.00
7,500.00	90.10	88.783	6,274.69	-788.20	1,632.78	1,616.11	0.00	0.00	0.00
7,600.00	90.10	88.783	6,274.51	-786.07	1,732.76	1,716.11	0.00	0.00	0.00
7,700.00	90.10	88.783	6,274.34	-783.95	1,832.74	1,816.11	0.00	0.00	0.00
7,800.00	90.10	88.783	6,274.17	-781.83	1,932.72	1,916.11	0.00	0.00	0.00
7,900.00	90.10	88.783	6,274.00	-779.70	2,032.69	2,016.11	0.00	0.00	0.00
8,000.00	90.10	88.783	6,273.83	-777.58	2,132.67	2,116.11	0.00	0.00	0.00
8,100.00	90.10	88.783	6,273.65	-775.46	2,232.65	2,216.11	0.00	0.00	0.00
8,200.00	90.10	88.783	6,273.48	-773.33	2,332.62	2,316.11	0.00	0.00	0.00
8,300.00	90.10	88.783	6,273.31	-771.21	2,432.60	2,416.11	0.00	0.00	0.00
8,400.00	90.10	88.783	6,273.14	-769.09	2,532.58	2,516.11	0.00	0.00	0.00
8,500.00	90.10	88.783	6,272.96	-766.96	2,632.56	2,616.11	0.00	0.00	0.00
8,600.00	90.10	88.783	6,272.79	-764.84	2,732.53	2,716.11	0.00	0.00	0.00
8,700.00	90.10	88.783	6,272.62	-762.72	2,832.51	2,816.11	0.00	0.00	0.00
8,800.00	90.10	88.783	6,272.45	-760.59	2,932.49	2,916.11	0.00	0.00	0.00
8,900.00	90.10	88.783	6,272.28	-758.47	3,032.47	3,016.11	0.00	0.00	0.00
9,000.00	90.10	88.783	6,272.10	-756.35	3,132.44	3,116.11	0.00	0.00	0.00
9,100.00	90.10	88.783	6,271.93	-754.22	3,232.42	3,216.11	0.00	0.00	0.00
9,200.00	90.10	88.783	6,271.76	-752.10	3,332.40	3,316.11	0.00	0.00	0.00
9,300.00	90.10	88.783	6,271.59	-749.98	3,432.38	3,416.11	0.00	0.00	0.00
9,400.00	90.10	88.783	6,271.42	-747.85	3,532.35	3,516.11	0.00	0.00	0.00
9,500.00	90.10	88.783	6,271.24	-745.73	3,632.33	3,616.11	0.00	0.00	0.00

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Company:	Bill Barrett Corp.	TVD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Site:	Anschutz State 5-62-26_25 SE27	North Reference:	True
Well:	Anschutz State 5-62-26-6457CN	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	90.10	88.783	6,271.07	-743.61	3,732.31	3,716.11	0.00	0.00	0.00	
9,700.00	90.10	88.783	6,270.90	-741.48	3,832.28	3,816.11	0.00	0.00	0.00	
9,800.00	90.10	88.783	6,270.73	-739.36	3,932.26	3,916.11	0.00	0.00	0.00	
9,900.00	90.10	88.783	6,270.55	-737.24	4,032.24	4,016.10	0.00	0.00	0.00	
10,000.00	90.10	88.783	6,270.38	-735.11	4,132.22	4,116.10	0.00	0.00	0.00	
10,100.00	90.10	88.783	6,270.21	-732.99	4,232.19	4,216.10	0.00	0.00	0.00	
10,200.00	90.10	88.783	6,270.04	-730.87	4,332.17	4,316.10	0.00	0.00	0.00	
10,300.00	90.10	88.783	6,269.87	-728.74	4,432.15	4,416.10	0.00	0.00	0.00	
10,400.00	90.10	88.783	6,269.69	-726.62	4,532.13	4,516.10	0.00	0.00	0.00	
10,500.00	90.10	88.783	6,269.52	-724.50	4,632.10	4,616.10	0.00	0.00	0.00	
10,600.00	90.10	88.783	6,269.35	-722.37	4,732.08	4,716.10	0.00	0.00	0.00	
10,700.00	90.10	88.783	6,269.18	-720.25	4,832.06	4,816.10	0.00	0.00	0.00	
10,800.00	90.10	88.783	6,269.00	-718.13	4,932.03	4,916.10	0.00	0.00	0.00	
10,900.00	90.10	88.783	6,268.83	-716.00	5,032.01	5,016.10	0.00	0.00	0.00	
11,000.00	90.10	88.783	6,268.66	-713.88	5,131.99	5,116.10	0.00	0.00	0.00	
11,100.00	90.10	88.783	6,268.49	-711.76	5,231.97	5,216.10	0.00	0.00	0.00	
11,200.00	90.10	88.783	6,268.32	-709.63	5,331.94	5,316.10	0.00	0.00	0.00	
11,300.00	90.10	88.783	6,268.14	-707.51	5,431.92	5,416.10	0.00	0.00	0.00	
11,400.00	90.10	88.783	6,267.97	-705.39	5,531.90	5,516.10	0.00	0.00	0.00	
11,500.00	90.10	88.783	6,267.80	-703.26	5,631.88	5,616.10	0.00	0.00	0.00	
11,600.00	90.10	88.783	6,267.63	-701.14	5,731.85	5,716.10	0.00	0.00	0.00	
11,700.00	90.10	88.783	6,267.46	-699.02	5,831.83	5,816.10	0.00	0.00	0.00	
11,800.00	90.10	88.783	6,267.28	-696.89	5,931.81	5,916.10	0.00	0.00	0.00	
11,900.00	90.10	88.783	6,267.11	-694.77	6,031.79	6,016.10	0.00	0.00	0.00	
12,000.00	90.10	88.783	6,266.94	-692.65	6,131.76	6,116.10	0.00	0.00	0.00	
12,100.00	90.10	88.783	6,266.77	-690.52	6,231.74	6,216.10	0.00	0.00	0.00	
12,200.00	90.10	88.783	6,266.59	-688.40	6,331.72	6,316.10	0.00	0.00	0.00	
12,300.00	90.10	88.783	6,266.42	-686.28	6,431.69	6,416.10	0.00	0.00	0.00	
12,400.00	90.10	88.783	6,266.25	-684.15	6,531.67	6,516.10	0.00	0.00	0.00	
12,500.00	90.10	88.783	6,266.08	-682.03	6,631.65	6,616.10	0.00	0.00	0.00	
12,600.00	90.10	88.783	6,265.91	-679.91	6,731.63	6,716.10	0.00	0.00	0.00	
12,700.00	90.10	88.783	6,265.73	-677.78	6,831.60	6,816.10	0.00	0.00	0.00	
12,800.00	90.10	88.783	6,265.56	-675.66	6,931.58	6,916.10	0.00	0.00	0.00	
12,900.00	90.10	88.783	6,265.39	-673.54	7,031.56	7,016.10	0.00	0.00	0.00	
13,000.00	90.10	88.783	6,265.22	-671.41	7,131.54	7,116.10	0.00	0.00	0.00	
13,100.00	90.10	88.783	6,265.04	-669.29	7,231.51	7,216.10	0.00	0.00	0.00	
13,200.00	90.10	88.783	6,264.87	-667.17	7,331.49	7,316.10	0.00	0.00	0.00	
13,300.00	90.10	88.783	6,264.70	-665.04	7,431.47	7,416.10	0.00	0.00	0.00	
13,400.00	90.10	88.783	6,264.53	-662.92	7,531.44	7,516.10	0.00	0.00	0.00	
13,500.00	90.10	88.783	6,264.36	-660.80	7,631.42	7,616.10	0.00	0.00	0.00	
13,600.00	90.10	88.783	6,264.18	-658.67	7,731.40	7,716.10	0.00	0.00	0.00	
13,700.00	90.10	88.783	6,264.01	-656.55	7,831.38	7,816.10	0.00	0.00	0.00	
13,800.00	90.10	88.783	6,263.84	-654.43	7,931.35	7,916.10	0.00	0.00	0.00	
13,900.00	90.10	88.783	6,263.67	-652.30	8,031.33	8,016.10	0.00	0.00	0.00	
14,000.00	90.10	88.783	6,263.50	-650.18	8,131.31	8,116.10	0.00	0.00	0.00	
14,100.00	90.10	88.783	6,263.32	-648.06	8,231.29	8,216.10	0.00	0.00	0.00	
14,200.00	90.10	88.783	6,263.15	-645.93	8,331.26	8,316.10	0.00	0.00	0.00	
14,300.00	90.10	88.783	6,262.98	-643.81	8,431.24	8,416.10	0.00	0.00	0.00	
14,400.00	90.10	88.783	6,262.81	-641.69	8,531.22	8,516.10	0.00	0.00	0.00	
14,500.00	90.10	88.783	6,262.63	-639.56	8,631.20	8,616.10	0.00	0.00	0.00	
14,600.00	90.10	88.783	6,262.46	-637.44	8,731.17	8,716.10	0.00	0.00	0.00	
14,700.00	90.10	88.783	6,262.29	-635.32	8,831.15	8,816.10	0.00	0.00	0.00	
14,800.00	90.10	88.783	6,262.12	-633.19	8,931.13	8,916.10	0.00	0.00	0.00	
14,900.00	90.10	88.783	6,261.95	-631.07	9,031.10	9,016.10	0.00	0.00	0.00	

Database:	Casper District	Local Co-ordinate Reference:	Site Anschutz State 5-62-26_25 SE27
Company:	Bill Barrett Corp.	TVD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 4656.1' & KB 20' @ 4676.10ft
Site:	Anschutz State 5-62-26_25 SE27	North Reference:	True
Well:	Anschutz State 5-62-26-6457CN	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	90.10	88.783	6,261.77	-628.95	9,131.08	9,116.10	0.00	0.00	0.00
15,100.00	90.10	88.783	6,261.60	-626.82	9,231.06	9,216.10	0.00	0.00	0.00
15,200.00	90.10	88.783	6,261.43	-624.70	9,331.04	9,316.10	0.00	0.00	0.00
15,300.00	90.10	88.783	6,261.26	-622.58	9,431.01	9,416.10	0.00	0.00	0.00
15,400.00	90.10	88.783	6,261.08	-620.45	9,530.99	9,516.10	0.00	0.00	0.00
15,500.00	90.10	88.783	6,260.91	-618.33	9,630.97	9,616.10	0.00	0.00	0.00
15,600.00	90.10	88.783	6,260.74	-616.21	9,730.95	9,716.10	0.00	0.00	0.00
15,700.00	90.10	88.783	6,260.57	-614.08	9,830.92	9,816.10	0.00	0.00	0.00
15,800.00	90.10	88.783	6,260.40	-611.96	9,930.90	9,916.10	0.00	0.00	0.00
15,900.00	90.10	88.783	6,260.22	-609.84	10,030.88	10,016.10	0.00	0.00	0.00
16,000.00	90.10	88.783	6,260.05	-607.71	10,130.85	10,116.10	0.00	0.00	0.00
16,100.00	90.10	88.783	6,259.88	-605.59	10,230.83	10,216.10	0.00	0.00	0.00
16,200.00	90.10	88.783	6,259.71	-603.47	10,330.81	10,316.10	0.00	0.00	0.00
16,300.00	90.10	88.783	6,259.54	-601.34	10,430.79	10,416.10	0.00	0.00	0.00
16,400.00	90.10	88.783	6,259.36	-599.22	10,530.76	10,516.10	0.00	0.00	0.00
16,500.00	90.10	88.783	6,259.19	-597.10	10,630.74	10,616.10	0.00	0.00	0.00
16,600.00	90.10	88.783	6,259.02	-594.97	10,730.72	10,716.10	0.00	0.00	0.00
16,610.74	90.10	88.783	6,259.00	-594.74	10,741.46	10,726.84	0.00	0.00	0.00
TD at 16610.74									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
5-62-26-6457CN PBHL	0.00	0.000	6,259.00	-594.74	10,741.46	1,378,494.27	3,344,674.80	40° 21' 56.768 N	104° 15' 46.868 W
- plan hits target center									
- Point									
5-62-26-6457CN LP	0.00	0.000	6,276.00	-804.35	871.63	1,378,151.30	3,334,808.72	40° 21' 54.720 N	104° 17' 54.380 W
- plan misses target center by 0.01ft at 6738.67ft MD (6276.00 TVD, -804.36 N, 871.63 E)									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,000.00	1,000.00	-59.76	0.84	Start Build 2.00
2,304.42	2,259.81	-331.46	107.46	Start 300.02 hold at 2304.42 MD
2,604.44	2,529.26	-454.28	155.66	Start Drop -1.50
4,343.66	4,209.01	-816.55	297.82	Start 1494.03 hold at 4343.66 MD
5,837.69	5,703.04	-816.55	297.82	Start DLS 10.00 TFO 88.78
6,738.68	6,276.00	-804.36	871.63	Start 9872.06 hold at 6738.68 MD
16,610.74	6,259.00	-594.74	10,741.46	TD at 16610.74