



Bill Barrett Corporation

Bill Barrett Corp.

Weld Co., CO

Sec.15-T4N-R62W

Anschutz Eq Farms 4-62-15-0560BH2

Wellbore #1

Plan: Design #1

Standard Planning Report

11 April, 2014

Archer



Bill Barrett Corporation

Bill Barrett Corp.
Project: Weld Co., CO
Site: Sec.15-T4N-R62W
Well: Anschutz Eq Farms 4-62-15-0560BH2
Wellbore: Wellbore #1
Design: Design #1
Lat: 40° 19' 8.511 N
Long: 104° 18' 36.000 W
Pad GL: 4514.00
KB: WELL @ 4537.00usft (Original Well Elev)

Archer

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
1218.81	4.78	307.49	1218.44	8.09	-10.55	1.50	307.49	-8.38	Start 3562.06 hold at 1218.81 MD
4780.87	4.78	307.49	4768.10	188.84	-246.17	0.00	0.00	-195.59	Start Drop -1.50
5099.68	0.00	0.00	5086.54	196.93	-256.72	1.50	180.00	-203.98	Start 500.00 hold at 5099.68 MD
5599.68	0.00	0.00	5586.54	196.93	-256.72	0.00	0.00	-203.98	Start Build 12.00
6352.13	90.29	178.41	6064.00	-282.80	-243.42	12.00	178.41	275.93	Start 9758.35 hold at 6352.13 MD
16110.48	90.29	178.41	6014.00	-10037.27	27.06	0.00	0.00	10034.16	TD at 16110.48

WELL DETAILS: Anschutz Eq Farms 4-62-15-0560BH2

+N/-S	+E/-W	Northing	Ground Level: Easting	4514.00 Latitude	Longitude	Slot
0.00	0.00	1361290.350	3331813.202	40° 19' 8.511 N	104° 18' 36.000 W	

WELLBORE TARGET DETAILS (LAT/LONG)

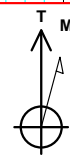
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
Anschutz Eq Farms4-62-15-0560BH2 tgt	6014.00	-10037.27	27.06	40° 17' 29.321 N	104° 18' 35.651 W	

CASING DETAILS

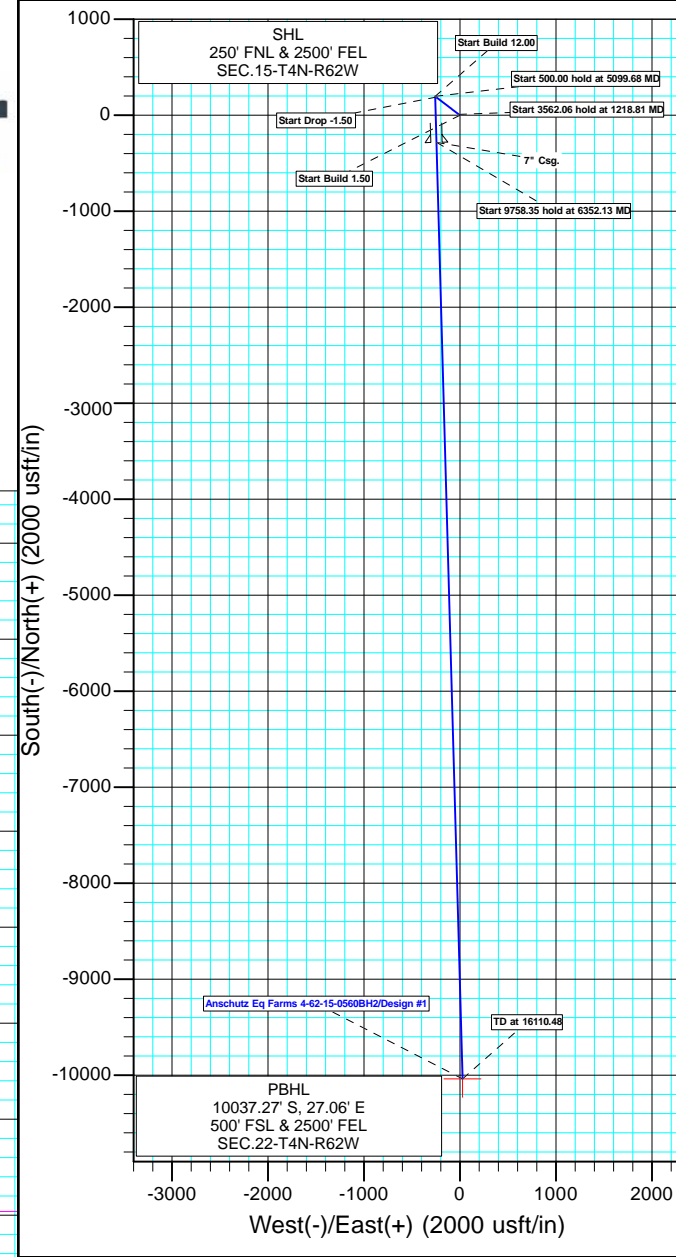
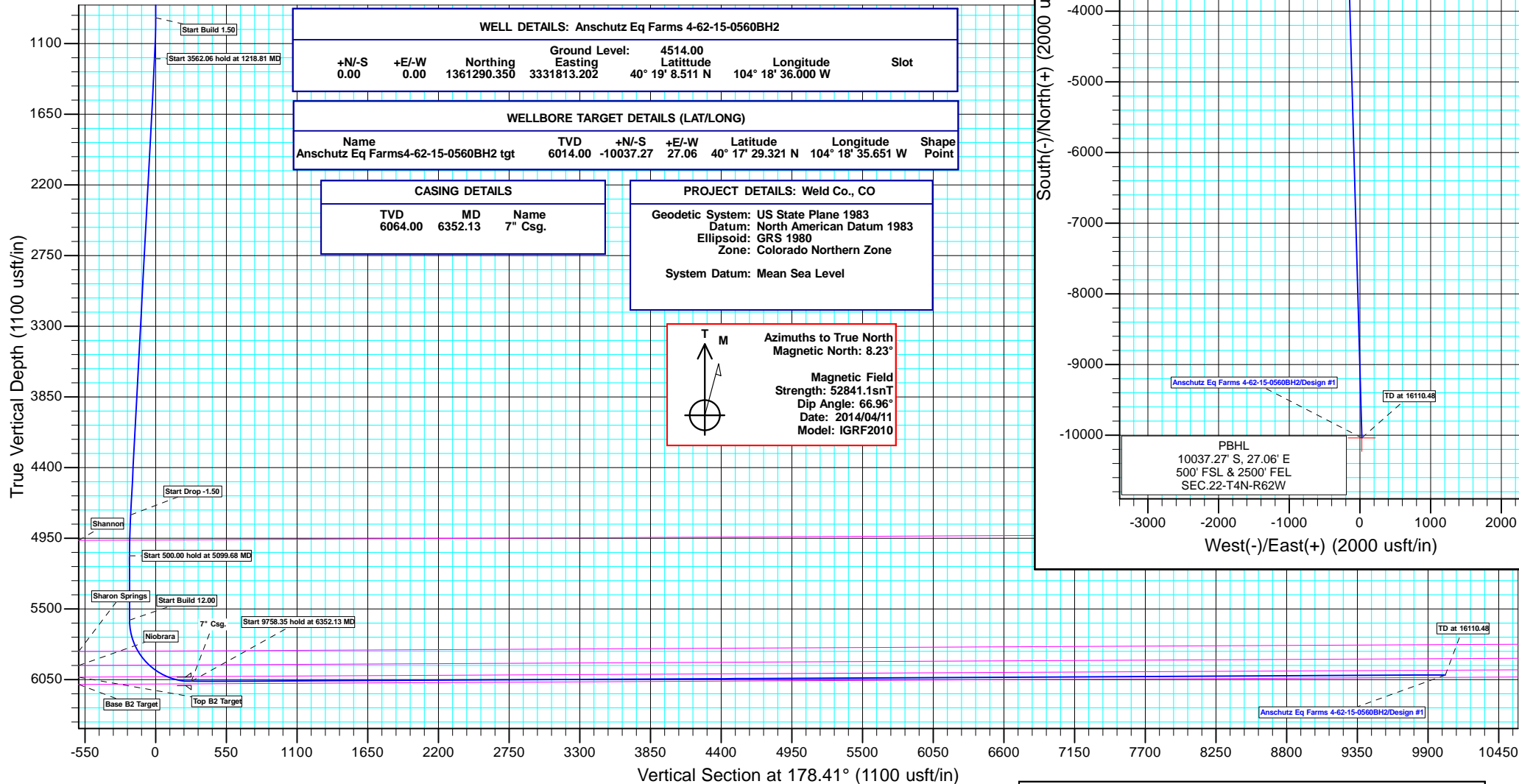
TVD	MD	Name
6064.00	6352.13	7" Csg.

PROJECT DETAILS: Weld Co., CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level



Azimuths to True North
Magnetic North: 8.23°
Magnetic Field
Strength: 52841.1snT
Dip Angle: 66.96°
Date: 2014/04/11
Model: IGRF2010



Plan: Design #1 (Anschutz Eq Farms 4-62-15-0560BH2/Wellbore #1)

Created By: Ricky Osburn

Date: 13:47, April 11 2014

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-15-0560BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4537.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4537.00usft (Original Well Elev)
Site:	Sec.15-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-15-0560BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Weld Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Sec.15-T4N-R62W				
Site Position:		Northing:	1,361,232.866 usft	Latitude:	40° 19' 8.231 N
From:	Lat/Long	Easting:	3,329,639.637 usft	Longitude:	104° 19' 4.069 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.76 °

Well	Anschutz Eq Farms 4-62-15-0560BH2					
Well Position	+N/-S	28.50 usft	Northing:	1,361,290.350 usft	Latitude:	40° 19' 8.511 N
	+E/-W	2,174.14 usft	Easting:	3,331,813.202 usft	Longitude:	104° 18' 36.000 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,514.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2014/04/11	8.23	66.96	52,841

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	178.41

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,218.81	4.78	307.49	1,218.44	8.09	-10.55	1.50	1.50	0.00	307.49	
4,780.87	4.78	307.49	4,768.10	188.84	-246.17	0.00	0.00	0.00	0.00	
5,099.68	0.00	0.00	5,086.54	196.93	-256.72	1.50	-1.50	0.00	180.00	
5,599.68	0.00	0.00	5,586.54	196.93	-256.72	0.00	0.00	0.00	0.00	
6,352.13	90.29	178.41	6,064.00	-282.80	-243.42	12.00	12.00	0.00	178.41	Anschutz Eq Farms4-
16,110.48	90.29	178.41	6,014.00	-10,037.27	27.06	0.00	0.00	0.00	0.00	Anschutz Eq Farms4-

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-15-0560BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4537.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4537.00usft (Original Well Elev)
Site:	Sec.15-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-15-0560BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	1.50	307.49	999.99	0.80	-1.04	-0.83	1.50	1.50	0.00
1,100.00	3.00	307.49	1,099.91	3.19	-4.15	-3.30	1.50	1.50	0.00
1,200.00	4.50	307.49	1,199.69	7.17	-9.34	-7.42	1.50	1.50	0.00
Start 3562.06 hold at 1218.81 MD									
1,218.81	4.78	307.49	1,218.44	8.09	-10.55	-8.38	1.50	1.50	0.00
1,300.00	4.78	307.49	1,299.35	12.21	-15.92	-12.65	0.00	0.00	0.00
1,400.00	4.78	307.49	1,399.00	17.29	-22.54	-17.91	0.00	0.00	0.00
1,500.00	4.78	307.49	1,498.65	22.36	-29.15	-23.16	0.00	0.00	0.00
1,600.00	4.78	307.49	1,598.30	27.44	-35.76	-28.42	0.00	0.00	0.00
1,700.00	4.78	307.49	1,697.95	32.51	-42.38	-33.67	0.00	0.00	0.00
1,800.00	4.78	307.49	1,797.61	37.58	-48.99	-38.93	0.00	0.00	0.00
1,900.00	4.78	307.49	1,897.26	42.66	-55.61	-44.18	0.00	0.00	0.00
2,000.00	4.78	307.49	1,996.91	47.73	-62.22	-49.44	0.00	0.00	0.00
2,100.00	4.78	307.49	2,096.56	52.81	-68.84	-54.70	0.00	0.00	0.00
2,200.00	4.78	307.49	2,196.21	57.88	-75.45	-59.95	0.00	0.00	0.00
2,300.00	4.78	307.49	2,295.87	62.95	-82.07	-65.21	0.00	0.00	0.00
2,400.00	4.78	307.49	2,395.52	68.03	-88.68	-70.46	0.00	0.00	0.00
2,500.00	4.78	307.49	2,495.17	73.10	-95.30	-75.72	0.00	0.00	0.00
2,600.00	4.78	307.49	2,594.82	78.18	-101.91	-80.97	0.00	0.00	0.00
2,700.00	4.78	307.49	2,694.47	83.25	-108.53	-86.23	0.00	0.00	0.00
2,800.00	4.78	307.49	2,794.13	88.32	-115.14	-91.49	0.00	0.00	0.00
2,900.00	4.78	307.49	2,893.78	93.40	-121.76	-96.74	0.00	0.00	0.00
3,000.00	4.78	307.49	2,993.43	98.47	-128.37	-102.00	0.00	0.00	0.00
3,100.00	4.78	307.49	3,093.08	103.55	-134.99	-107.25	0.00	0.00	0.00
3,200.00	4.78	307.49	3,192.73	108.62	-141.60	-112.51	0.00	0.00	0.00
3,300.00	4.78	307.49	3,292.39	113.70	-148.21	-117.76	0.00	0.00	0.00
3,400.00	4.78	307.49	3,392.04	118.77	-154.83	-123.02	0.00	0.00	0.00
3,500.00	4.78	307.49	3,491.69	123.84	-161.44	-128.28	0.00	0.00	0.00
3,600.00	4.78	307.49	3,591.34	128.92	-168.06	-133.53	0.00	0.00	0.00
3,700.00	4.78	307.49	3,690.99	133.99	-174.67	-138.79	0.00	0.00	0.00
3,800.00	4.78	307.49	3,790.64	139.07	-181.29	-144.04	0.00	0.00	0.00
3,900.00	4.78	307.49	3,890.30	144.14	-187.90	-149.30	0.00	0.00	0.00
4,000.00	4.78	307.49	3,989.95	149.21	-194.52	-154.55	0.00	0.00	0.00
4,100.00	4.78	307.49	4,089.60	154.29	-201.13	-159.81	0.00	0.00	0.00
4,200.00	4.78	307.49	4,189.25	159.36	-207.75	-165.07	0.00	0.00	0.00
4,300.00	4.78	307.49	4,288.90	164.44	-214.36	-170.32	0.00	0.00	0.00
4,400.00	4.78	307.49	4,388.56	169.51	-220.98	-175.58	0.00	0.00	0.00
4,500.00	4.78	307.49	4,488.21	174.59	-227.59	-180.83	0.00	0.00	0.00
4,600.00	4.78	307.49	4,587.86	179.66	-234.21	-186.09	0.00	0.00	0.00
4,700.00	4.78	307.49	4,687.51	184.73	-240.82	-191.34	0.00	0.00	0.00
Start Drop -1.50									
4,780.87	4.78	307.49	4,768.10	188.84	-246.17	-195.59	0.00	0.00	0.00

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-15-0560BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4537.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4537.00usft (Original Well Elev)
Site:	Sec.15-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-15-0560BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	4.50	307.49	4,787.17	189.78	-247.40	-196.57	1.50	-1.50	0.00
4,900.00	3.00	307.49	4,886.95	193.75	-252.58	-200.69	1.50	-1.50	0.00
Shannon									
4,977.15	1.84	307.49	4,964.03	195.73	-255.16	-202.74	1.50	-1.50	0.00
5,000.00	1.50	307.49	4,986.87	196.14	-255.69	-203.16	1.50	-1.50	0.00
Start 500.00 hold at 5099.68 MD									
5,099.68	0.00	0.00	5,086.54	196.93	-256.72	-203.98	1.50	-1.50	0.00
5,200.00	0.00	0.00	5,186.86	196.93	-256.72	-203.98	0.00	0.00	0.00
5,300.00	0.00	0.00	5,286.86	196.93	-256.72	-203.98	0.00	0.00	0.00
5,400.00	0.00	0.00	5,386.86	196.93	-256.72	-203.98	0.00	0.00	0.00
5,500.00	0.00	0.00	5,486.86	196.93	-256.72	-203.98	0.00	0.00	0.00
Start Build 12.00									
5,599.68	0.00	0.00	5,586.54	196.93	-256.72	-203.98	0.00	0.00	0.00
5,625.00	3.04	178.41	5,611.85	196.26	-256.70	-203.31	12.00	12.00	0.00
5,650.00	6.04	178.41	5,636.77	194.28	-256.65	-201.33	12.00	12.00	0.00
5,675.00	9.04	178.41	5,661.55	191.00	-256.56	-198.05	12.00	12.00	0.00
5,700.00	12.04	178.41	5,686.12	186.43	-256.43	-193.48	12.00	12.00	0.00
5,725.00	15.04	178.41	5,710.43	180.58	-256.27	-187.63	12.00	12.00	0.00
5,750.00	18.04	178.41	5,734.39	173.47	-256.07	-180.51	12.00	12.00	0.00
5,775.00	21.04	178.41	5,757.95	165.11	-255.84	-172.15	12.00	12.00	0.00
5,800.00	24.04	178.41	5,781.03	155.54	-255.57	-162.57	12.00	12.00	0.00
5,825.00	27.04	178.41	5,803.59	144.76	-255.27	-151.79	12.00	12.00	0.00
5,850.00	30.04	178.41	5,825.55	132.83	-254.94	-139.85	12.00	12.00	0.00
Sharon Springs									
5,853.65	30.48	178.41	5,828.70	130.99	-254.89	-138.01	12.00	12.00	0.00
5,875.00	33.04	178.41	5,846.85	119.76	-254.58	-126.77	12.00	12.00	0.00
5,900.00	36.04	178.41	5,867.45	105.59	-254.19	-112.60	12.00	12.00	0.00
5,925.00	39.04	178.41	5,887.27	90.36	-253.77	-97.37	12.00	12.00	0.00
5,950.00	42.04	178.41	5,906.26	74.12	-253.31	-81.12	12.00	12.00	0.00
5,975.00	45.04	178.41	5,924.38	56.91	-252.84	-63.90	12.00	12.00	0.00
Niobrara									
5,993.58	47.27	178.41	5,937.26	43.52	-252.47	-50.51	12.00	12.00	0.00
6,000.00	48.04	178.41	5,941.58	38.77	-252.33	-45.76	12.00	12.00	0.00
6,025.00	51.04	178.41	5,957.80	19.76	-251.81	-26.74	12.00	12.00	0.00
6,050.00	54.04	178.41	5,973.01	-0.07	-251.26	-6.90	12.00	12.00	0.00
6,075.00	57.04	178.41	5,987.15	-20.67	-250.69	13.71	12.00	12.00	0.00
6,100.00	60.04	178.41	6,000.20	-41.99	-250.10	35.03	12.00	12.00	0.00
6,125.00	63.04	178.41	6,012.11	-63.96	-249.49	57.01	12.00	12.00	0.00
6,150.00	66.04	178.41	6,022.86	-86.52	-248.86	79.58	12.00	12.00	0.00
Top B2 Target									
6,161.87	67.46	178.41	6,027.54	-97.42	-248.56	90.48	12.00	12.00	0.00
6,175.00	69.04	178.41	6,032.41	-109.61	-248.22	102.68	12.00	12.00	0.00
6,200.00	72.04	178.41	6,040.73	-133.17	-247.57	126.25	12.00	12.00	0.00
6,225.00	75.04	178.41	6,047.82	-157.13	-246.90	150.22	12.00	12.00	0.00
6,250.00	78.04	178.41	6,053.64	-181.43	-246.23	174.53	12.00	12.00	0.00
6,275.00	81.04	178.41	6,058.18	-206.00	-245.55	199.11	12.00	12.00	0.00
6,300.00	84.04	178.41	6,061.42	-230.78	-244.86	223.90	12.00	12.00	0.00
6,325.00	87.04	178.41	6,063.37	-255.69	-244.17	248.82	12.00	12.00	0.00
Start 9758.35 hold at 6352.13 MD - 7" Csg.									
6,352.13	90.29	178.41	6,064.00	-282.80	-243.42	275.94	12.00	12.00	0.00
6,400.00	90.29	178.41	6,063.75	-330.65	-242.09	323.81	0.00	0.00	0.00
6,500.00	90.29	178.41	6,063.24	-430.61	-239.32	423.81	0.00	0.00	0.00
6,600.00	90.29	178.41	6,062.73	-530.57	-236.55	523.80	0.00	0.00	0.00

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-15-0560BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4537.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4537.00usft (Original Well Elev)
Site:	Sec.15-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-15-0560BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,700.00	90.29	178.41	6,062.22	-630.53	-233.78	623.80	0.00	0.00	0.00
6,800.00	90.29	178.41	6,061.70	-730.49	-231.00	723.80	0.00	0.00	0.00
6,900.00	90.29	178.41	6,061.19	-830.45	-228.23	823.80	0.00	0.00	0.00
7,000.00	90.29	178.41	6,060.68	-930.41	-225.46	923.80	0.00	0.00	0.00
7,100.00	90.29	178.41	6,060.17	-1,030.37	-222.69	1,023.80	0.00	0.00	0.00
7,200.00	90.29	178.41	6,059.65	-1,130.33	-219.92	1,123.80	0.00	0.00	0.00
7,300.00	90.29	178.41	6,059.14	-1,230.29	-217.15	1,223.79	0.00	0.00	0.00
7,400.00	90.29	178.41	6,058.63	-1,330.25	-214.37	1,323.79	0.00	0.00	0.00
7,500.00	90.29	178.41	6,058.12	-1,430.21	-211.60	1,423.79	0.00	0.00	0.00
7,600.00	90.29	178.41	6,057.61	-1,530.17	-208.83	1,523.79	0.00	0.00	0.00
7,700.00	90.29	178.41	6,057.09	-1,630.13	-206.06	1,623.79	0.00	0.00	0.00
7,800.00	90.29	178.41	6,056.58	-1,730.10	-203.29	1,723.79	0.00	0.00	0.00
7,900.00	90.29	178.41	6,056.07	-1,830.06	-200.51	1,823.79	0.00	0.00	0.00
8,000.00	90.29	178.41	6,055.56	-1,930.02	-197.74	1,923.79	0.00	0.00	0.00
8,100.00	90.29	178.41	6,055.04	-2,029.98	-194.97	2,023.78	0.00	0.00	0.00
8,200.00	90.29	178.41	6,054.53	-2,129.94	-192.20	2,123.78	0.00	0.00	0.00
8,300.00	90.29	178.41	6,054.02	-2,229.90	-189.43	2,223.78	0.00	0.00	0.00
8,400.00	90.29	178.41	6,053.51	-2,329.86	-186.66	2,323.78	0.00	0.00	0.00
8,500.00	90.29	178.41	6,052.99	-2,429.82	-183.88	2,423.78	0.00	0.00	0.00
8,600.00	90.29	178.41	6,052.48	-2,529.78	-181.11	2,523.78	0.00	0.00	0.00
8,700.00	90.29	178.41	6,051.97	-2,629.74	-178.34	2,623.78	0.00	0.00	0.00
8,800.00	90.29	178.41	6,051.46	-2,729.70	-175.57	2,723.78	0.00	0.00	0.00
8,900.00	90.29	178.41	6,050.95	-2,829.66	-172.80	2,823.77	0.00	0.00	0.00
9,000.00	90.29	178.41	6,050.43	-2,929.62	-170.03	2,923.77	0.00	0.00	0.00
9,100.00	90.29	178.41	6,049.92	-3,029.58	-167.25	3,023.77	0.00	0.00	0.00
9,200.00	90.29	178.41	6,049.41	-3,129.54	-164.48	3,123.77	0.00	0.00	0.00
9,300.00	90.29	178.41	6,048.90	-3,229.50	-161.71	3,223.77	0.00	0.00	0.00
9,400.00	90.29	178.41	6,048.38	-3,329.46	-158.94	3,323.77	0.00	0.00	0.00
9,500.00	90.29	178.41	6,047.87	-3,429.42	-156.17	3,423.77	0.00	0.00	0.00
9,600.00	90.29	178.41	6,047.36	-3,529.38	-153.40	3,523.76	0.00	0.00	0.00
9,700.00	90.29	178.41	6,046.85	-3,629.34	-150.62	3,623.76	0.00	0.00	0.00
9,800.00	90.29	178.41	6,046.33	-3,729.30	-147.85	3,723.76	0.00	0.00	0.00
9,900.00	90.29	178.41	6,045.82	-3,829.26	-145.08	3,823.76	0.00	0.00	0.00
10,000.00	90.29	178.41	6,045.31	-3,929.22	-142.31	3,923.76	0.00	0.00	0.00
10,100.00	90.29	178.41	6,044.80	-4,029.18	-139.54	4,023.76	0.00	0.00	0.00
10,200.00	90.29	178.41	6,044.29	-4,129.14	-136.76	4,123.76	0.00	0.00	0.00
10,300.00	90.29	178.41	6,043.77	-4,229.10	-133.99	4,223.76	0.00	0.00	0.00
10,400.00	90.29	178.41	6,043.26	-4,329.06	-131.22	4,323.75	0.00	0.00	0.00
10,500.00	90.29	178.41	6,042.75	-4,429.02	-128.45	4,423.75	0.00	0.00	0.00
10,600.00	90.29	178.41	6,042.24	-4,528.98	-125.68	4,523.75	0.00	0.00	0.00
10,700.00	90.29	178.41	6,041.72	-4,628.94	-122.91	4,623.75	0.00	0.00	0.00
10,800.00	90.29	178.41	6,041.21	-4,728.90	-120.13	4,723.75	0.00	0.00	0.00
10,900.00	90.29	178.41	6,040.70	-4,828.86	-117.36	4,823.75	0.00	0.00	0.00
11,000.00	90.29	178.41	6,040.19	-4,928.82	-114.59	4,923.75	0.00	0.00	0.00
11,100.00	90.29	178.41	6,039.67	-5,028.78	-111.82	5,023.75	0.00	0.00	0.00
11,200.00	90.29	178.41	6,039.16	-5,128.74	-109.05	5,123.74	0.00	0.00	0.00
11,300.00	90.29	178.41	6,038.65	-5,228.70	-106.28	5,223.74	0.00	0.00	0.00
11,400.00	90.29	178.41	6,038.14	-5,328.66	-103.50	5,323.74	0.00	0.00	0.00
11,500.00	90.29	178.41	6,037.62	-5,428.62	-100.73	5,423.74	0.00	0.00	0.00
11,600.00	90.29	178.41	6,037.11	-5,528.59	-97.96	5,523.74	0.00	0.00	0.00
11,700.00	90.29	178.41	6,036.60	-5,628.55	-95.19	5,623.74	0.00	0.00	0.00
11,800.00	90.29	178.41	6,036.09	-5,728.51	-92.42	5,723.74	0.00	0.00	0.00
11,900.00	90.29	178.41	6,035.58	-5,828.47	-89.64	5,823.73	0.00	0.00	0.00
12,000.00	90.29	178.41	6,035.06	-5,928.43	-86.87	5,923.73	0.00	0.00	0.00

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-15-0560BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4537.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4537.00usft (Original Well Elev)
Site:	Sec.15-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-15-0560BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,100.00	90.29	178.41	6,034.55	-6,028.39	-84.10	6,023.73	0.00	0.00	0.00
12,200.00	90.29	178.41	6,034.04	-6,128.35	-81.33	6,123.73	0.00	0.00	0.00
12,300.00	90.29	178.41	6,033.53	-6,228.31	-78.56	6,223.73	0.00	0.00	0.00
12,400.00	90.29	178.41	6,033.01	-6,328.27	-75.79	6,323.73	0.00	0.00	0.00
12,500.00	90.29	178.41	6,032.50	-6,428.23	-73.01	6,423.73	0.00	0.00	0.00
12,600.00	90.29	178.41	6,031.99	-6,528.19	-70.24	6,523.73	0.00	0.00	0.00
12,700.00	90.29	178.41	6,031.48	-6,628.15	-67.47	6,623.72	0.00	0.00	0.00
12,800.00	90.29	178.41	6,030.96	-6,728.11	-64.70	6,723.72	0.00	0.00	0.00
12,900.00	90.29	178.41	6,030.45	-6,828.07	-61.93	6,823.72	0.00	0.00	0.00
13,000.00	90.29	178.41	6,029.94	-6,928.03	-59.16	6,923.72	0.00	0.00	0.00
13,100.00	90.29	178.41	6,029.43	-7,027.99	-56.38	7,023.72	0.00	0.00	0.00
13,200.00	90.29	178.41	6,028.92	-7,127.95	-53.61	7,123.72	0.00	0.00	0.00
13,300.00	90.29	178.41	6,028.40	-7,227.91	-50.84	7,223.72	0.00	0.00	0.00
13,400.00	90.29	178.41	6,027.89	-7,327.87	-48.07	7,323.71	0.00	0.00	0.00
13,500.00	90.29	178.41	6,027.38	-7,427.83	-45.30	7,423.71	0.00	0.00	0.00
13,600.00	90.29	178.41	6,026.87	-7,527.79	-42.53	7,523.71	0.00	0.00	0.00
13,700.00	90.29	178.41	6,026.35	-7,627.75	-39.75	7,623.71	0.00	0.00	0.00
13,800.00	90.29	178.41	6,025.84	-7,727.71	-36.98	7,723.71	0.00	0.00	0.00
13,900.00	90.29	178.41	6,025.33	-7,827.67	-34.21	7,823.71	0.00	0.00	0.00
14,000.00	90.29	178.41	6,024.82	-7,927.63	-31.44	7,923.71	0.00	0.00	0.00
14,100.00	90.29	178.41	6,024.30	-8,027.59	-28.67	8,023.71	0.00	0.00	0.00
14,200.00	90.29	178.41	6,023.79	-8,127.55	-25.89	8,123.70	0.00	0.00	0.00
14,300.00	90.29	178.41	6,023.28	-8,227.51	-23.12	8,223.70	0.00	0.00	0.00
14,400.00	90.29	178.41	6,022.77	-8,327.47	-20.35	8,323.70	0.00	0.00	0.00
14,500.00	90.29	178.41	6,022.26	-8,427.43	-17.58	8,423.70	0.00	0.00	0.00
14,600.00	90.29	178.41	6,021.74	-8,527.39	-14.81	8,523.70	0.00	0.00	0.00
14,700.00	90.29	178.41	6,021.23	-8,627.35	-12.04	8,623.70	0.00	0.00	0.00
14,800.00	90.29	178.41	6,020.72	-8,727.31	-9.26	8,723.70	0.00	0.00	0.00
14,900.00	90.29	178.41	6,020.21	-8,827.27	-6.49	8,823.70	0.00	0.00	0.00
15,000.00	90.29	178.41	6,019.69	-8,927.23	-3.72	8,923.69	0.00	0.00	0.00
15,100.00	90.29	178.41	6,019.18	-9,027.19	-0.95	9,023.69	0.00	0.00	0.00
15,200.00	90.29	178.41	6,018.67	-9,127.15	1.82	9,123.69	0.00	0.00	0.00
15,300.00	90.29	178.41	6,018.16	-9,227.12	4.59	9,223.69	0.00	0.00	0.00
15,400.00	90.29	178.41	6,017.64	-9,327.08	7.37	9,323.69	0.00	0.00	0.00
15,500.00	90.29	178.41	6,017.13	-9,427.04	10.14	9,423.69	0.00	0.00	0.00
15,600.00	90.29	178.41	6,016.62	-9,527.00	12.91	9,523.69	0.00	0.00	0.00
15,700.00	90.29	178.41	6,016.11	-9,626.96	15.68	9,623.68	0.00	0.00	0.00
15,800.00	90.29	178.41	6,015.60	-9,726.92	18.45	9,723.68	0.00	0.00	0.00
15,900.00	90.29	178.41	6,015.08	-9,826.88	21.22	9,823.68	0.00	0.00	0.00
16,000.00	90.29	178.41	6,014.57	-9,926.84	24.00	9,923.68	0.00	0.00	0.00
16,100.00	90.29	178.41	6,014.06	-10,026.80	26.77	10,023.68	0.00	0.00	0.00
TD at 16110.48									
16,110.48	90.29	178.41	6,014.00	-10,037.27	27.06	10,034.16	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Anschutz Eq Farms4-62	0.00	0.00	6,014.00	-10,037.27	27.06	1,351,254.347	3,331,974.953	40° 17' 29.321 N	104° 18' 35.651 W
- plan hits target center									
- Point									

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-15-0560BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4537.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4537.00usft (Original Well Elev)
Site:	Sec.15-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-15-0560BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
6,352.13	6,064.00	7" Csg.	7	8-3/4	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,977.15	4,963.00	Shannon		-0.29	178.41
5,853.65	5,828.00	Sharon Springs		-0.29	178.41
5,993.58	5,937.00	Niobrara		-0.29	178.41
6,161.87	6,028.00	Top B2 Target		-0.29	178.41

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
900.00	900.00	0.00	0.00	Start Build 1.50	
1,218.81	1,218.44	8.09	-10.55	Start 3562.06 hold at 1218.81 MD	
4,780.87	4,768.10	188.84	-246.17	Start Drop -1.50	
5,099.68	5,086.54	196.93	-256.72	Start 500.00 hold at 5099.68 MD	
5,599.68	5,586.54	196.93	-256.72	Start Build 12.00	
6,352.13	6,064.00	-282.80	-243.42	Start 9758.35 hold at 6352.13 MD	
16,110.48	6,014.00	-10,037.27	27.06	TD at 16110.48	