



Bill Barrett Corporation

Bill Barrett Corp.

Weld Co., CO

Sec.15-T6N-R62W

Will 6-62-15-0202BH2

Wellbore #1

Plan: Design #1

Standard Planning Report

08 April, 2015

Archer



Bill Barrett Corp.
Project: Weld Co., CO
Site: Sec.15-T6N-R62W
Well: Will 6-62-15-0202BH2
Wellbore: Wellbore #1
Design: Design #1
Lat: 40° 29' 37.061 N
Long: 104° 18' 49.770 W
Pad GL: 4761.00
KB: Well @ 4777.00usft

Plan: Design #1 (Will 6-62-15-0202BH2/Wellbore #1)

Created By: Ricky Osburn Date: 11:29, April 08 2015

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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 2.00
1171.85	5.44	312.70	1171.44	8.74	-9.47	2.00	312.70	-8.76	Start 4088.05 hold at 1171.85 MD
5259.90	5.44	312.70	5241.10	271.41	-294.15	0.00	0.00	-272.18	Start Drop -2.00
5531.75	0.00	0.00	5512.54	280.15	-303.62	2.00	180.00	-280.94	Start 500.02 hold at 5531.75 MD
6031.77	0.00	0.00	6012.56	280.15	-303.62	0.00	0.00	-280.94	Start Build 12.00
6786.33	90.55	179.85	6490.00	-201.87	-302.32	12.00	179.85	201.08	Start 5233.79 hold at 6786.33 MD
12020.12	90.55	179.85	6440.00	-5435.41	-288.20	0.00	0.00	5434.64	TD at 12020.12

WELL DETAILS: Will 6-62-15-0202BH2

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude	Slot
0.00	0.00	1424875.626	3329895.922	40° 29' 37.061 N	104° 18' 49.770 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
Will 6-62-15-0202BH2 tgt	6440.00	-5435.41	-288.20	40° 28' 43.349 N	104° 18' 53.500 W	

CASING DETAILS

TVD	MD	Name
6490.00	6786.33	7" Csg.

PROJECT DETAILS: Weld Co., CO

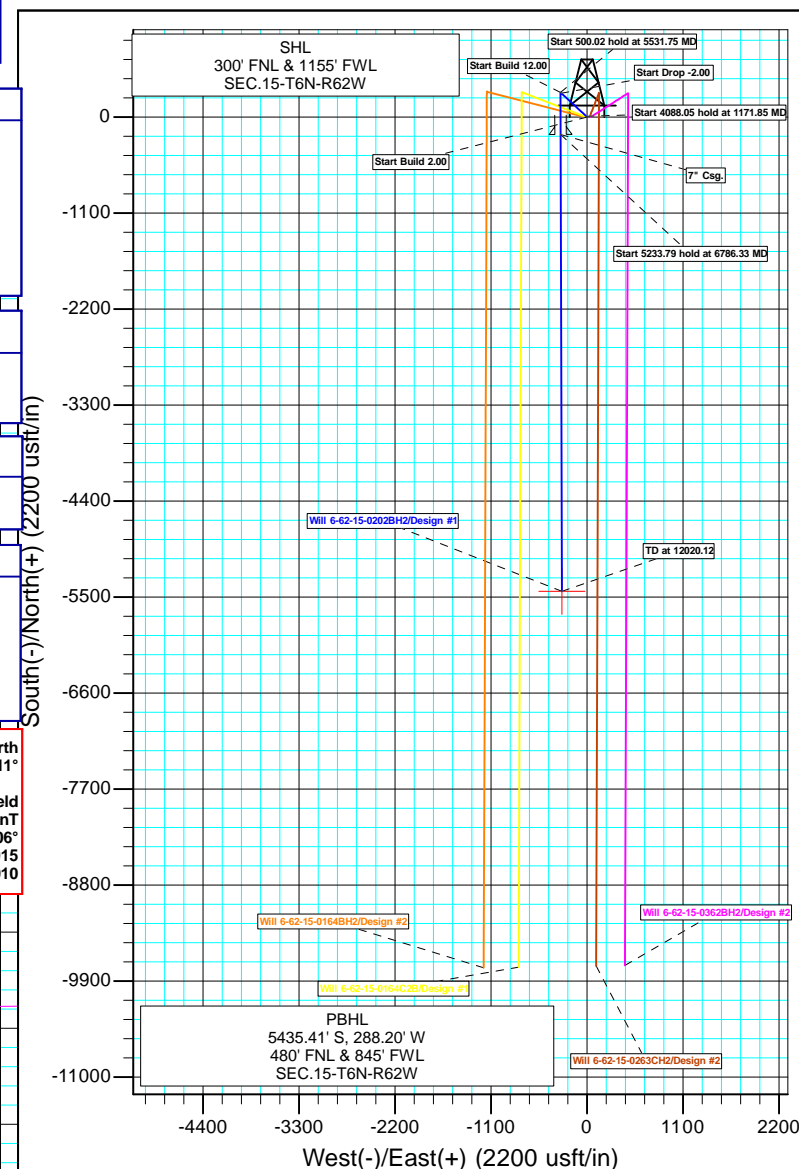
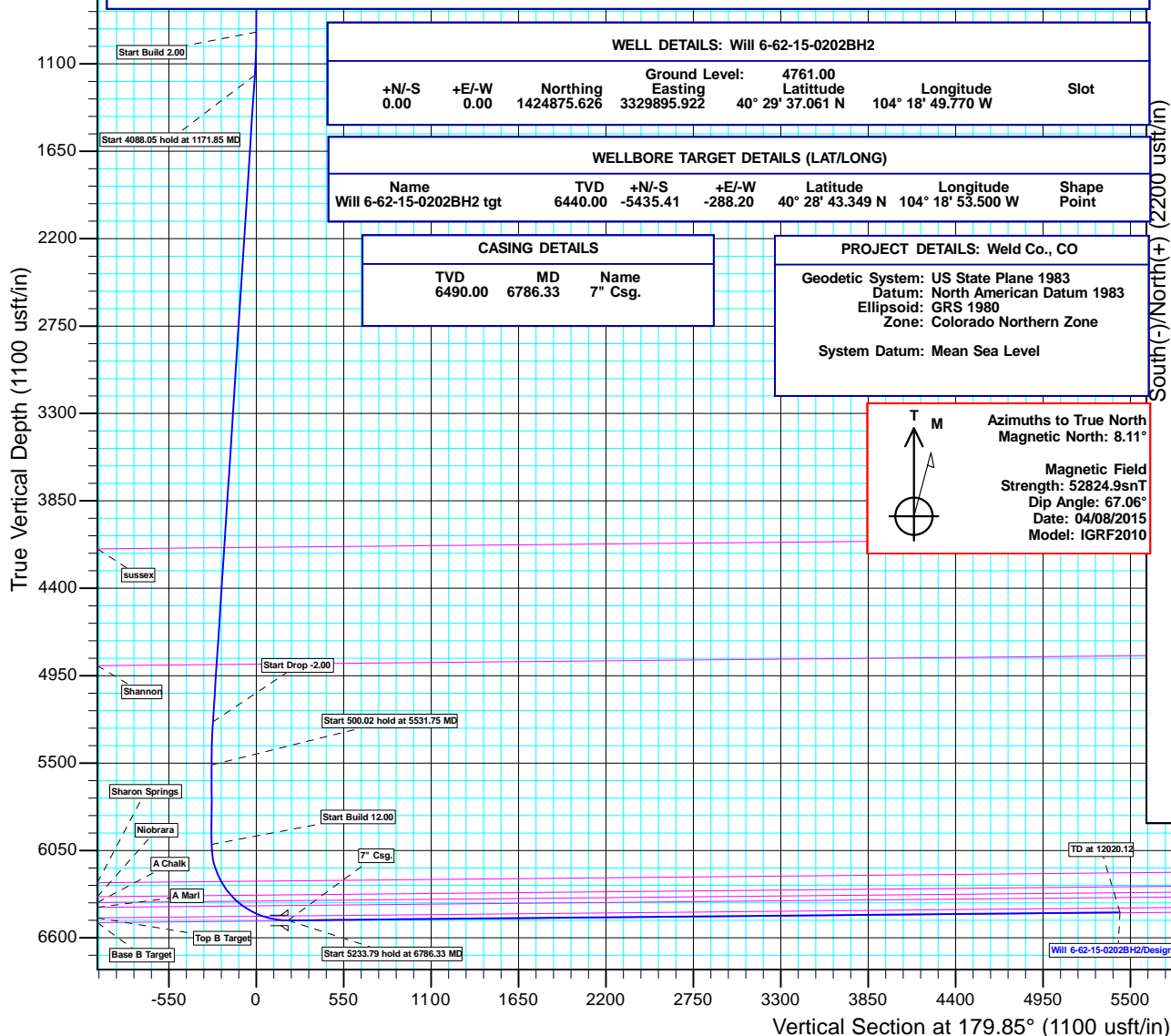
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level



Azimuths to True North
Magnetic North: 8.11°

Magnetic Field
Strength: 52824.9snT
Dip Angle: 67.06°
Date: 04/08/2015
Model: IGRF2010

Archer



Database:	EDMDBBW	Local Co-ordinate Reference:	Well Will 6-62-15-0202BH2
Company:	Bill Barrett Corp.	TVD Reference:	Well @ 4777.00usft
Project:	Weld Co., CO	MD Reference:	Well @ 4777.00usft
Site:	Sec.15-T6N-R62W	North Reference:	True
Well:	Will 6-62-15-0202BH2	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-T6N-R62W				
Site Position:		Northing:	1,424,875.232 usft	Latitude:	40° 29' 37.061 N
From:	Lat/Long	Easting:	3,329,865.887 usft	Longitude:	104° 18' 50.159 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.77 °

Well	Will 6-62-15-0202BH2					
Well Position	+N/-S	-0.01 usft	Northing:	1,424,875.626 usft	Latitude:	40° 29' 37.061 N
	+E/-W	30.04 usft	Easting:	3,329,895.922 usft	Longitude:	104° 18' 49.770 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,761.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2015/04/08	8.11	67.06	52,825

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	179.85

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	
1,171.85	5.44	312.70	1,171.44	8.74	-9.47	2.00	2.00	0.00	312.70	
5,259.90	5.44	312.70	5,241.10	271.41	-294.15	0.00	0.00	0.00	0.00	
5,531.75	0.00	0.00	5,512.54	280.15	-303.62	2.00	-2.00	0.00	180.00	
6,031.77	0.00	0.00	6,012.56	280.15	-303.62	0.00	0.00	0.00	0.00	
6,786.33	90.55	179.85	6,490.00	-201.87	-302.32	12.00	12.00	0.00	179.85	Will 6-62-15-0202BH2
12,020.12	90.55	179.85	6,440.00	-5,435.41	-288.20	0.00	0.00	0.00	0.00	Will 6-62-15-0202BH2

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Will 6-62-15-0202BH2
Company:	Bill Barrett Corp.	TVD Reference:	Well @ 4777.00usft
Project:	Weld Co., CO	MD Reference:	Well @ 4777.00usft
Site:	Sec.15-T6N-R62W	North Reference:	True
Well:	Will 6-62-15-0202BH2	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 2.00									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	2.00	312.70	999.98	1.18	-1.28	-1.19	2.00	2.00	0.00
1,100.00	4.00	312.70	1,099.84	4.73	-5.13	-4.75	2.00	2.00	0.00
Start 4088.05 hold at 1171.85 MD									
1,171.85	5.44	312.70	1,171.44	8.74	-9.47	-8.76	2.00	2.00	0.00
1,200.00	5.44	312.70	1,199.47	10.55	-11.43	-10.58	0.00	0.00	0.00
1,300.00	5.44	312.70	1,299.02	16.97	-18.40	-17.02	0.00	0.00	0.00
1,400.00	5.44	312.70	1,398.57	23.40	-25.36	-23.47	0.00	0.00	0.00
1,500.00	5.44	312.70	1,498.12	29.82	-32.32	-29.91	0.00	0.00	0.00
1,600.00	5.44	312.70	1,597.67	36.25	-39.29	-36.35	0.00	0.00	0.00
1,700.00	5.44	312.70	1,697.22	42.68	-46.25	-42.80	0.00	0.00	0.00
1,800.00	5.44	312.70	1,796.77	49.10	-53.21	-49.24	0.00	0.00	0.00
1,900.00	5.44	312.70	1,896.32	55.53	-60.18	-55.68	0.00	0.00	0.00
2,000.00	5.44	312.70	1,995.87	61.95	-67.14	-62.13	0.00	0.00	0.00
2,100.00	5.44	312.70	2,095.42	68.38	-74.11	-68.57	0.00	0.00	0.00
2,200.00	5.44	312.70	2,194.97	74.80	-81.07	-75.01	0.00	0.00	0.00
2,300.00	5.44	312.70	2,294.52	81.23	-88.03	-81.46	0.00	0.00	0.00
2,400.00	5.44	312.70	2,394.07	87.65	-95.00	-87.90	0.00	0.00	0.00
2,500.00	5.44	312.70	2,493.62	94.08	-101.96	-94.34	0.00	0.00	0.00
2,600.00	5.44	312.70	2,593.17	100.50	-108.92	-100.79	0.00	0.00	0.00
2,700.00	5.44	312.70	2,692.72	106.93	-115.89	-107.23	0.00	0.00	0.00
2,800.00	5.44	312.70	2,792.27	113.35	-122.85	-113.68	0.00	0.00	0.00
2,900.00	5.44	312.70	2,891.82	119.78	-129.81	-120.12	0.00	0.00	0.00
3,000.00	5.44	312.70	2,991.37	126.20	-136.78	-126.56	0.00	0.00	0.00
3,100.00	5.44	312.70	3,090.92	132.63	-143.74	-133.01	0.00	0.00	0.00
3,200.00	5.44	312.70	3,190.47	139.06	-150.70	-139.45	0.00	0.00	0.00
3,300.00	5.44	312.70	3,290.02	145.48	-157.67	-145.89	0.00	0.00	0.00
3,400.00	5.44	312.70	3,389.57	151.91	-164.63	-152.34	0.00	0.00	0.00
3,500.00	5.44	312.70	3,489.12	158.33	-171.60	-158.78	0.00	0.00	0.00
3,600.00	5.44	312.70	3,588.67	164.76	-178.56	-165.22	0.00	0.00	0.00
3,700.00	5.44	312.70	3,688.22	171.18	-185.52	-171.67	0.00	0.00	0.00
3,800.00	5.44	312.70	3,787.77	177.61	-192.49	-178.11	0.00	0.00	0.00
3,900.00	5.44	312.70	3,887.32	184.03	-199.45	-184.55	0.00	0.00	0.00
4,000.00	5.44	312.70	3,986.87	190.46	-206.41	-191.00	0.00	0.00	0.00
4,100.00	5.44	312.70	4,086.42	196.88	-213.38	-197.44	0.00	0.00	0.00
sussex									
4,157.77	5.44	312.70	4,143.93	200.59	-217.40	-201.16	0.00	0.00	0.00
4,200.00	5.44	312.70	4,185.97	203.31	-220.34	-203.88	0.00	0.00	0.00
4,300.00	5.44	312.70	4,285.52	209.73	-227.30	-210.33	0.00	0.00	0.00
4,400.00	5.44	312.70	4,385.07	216.16	-234.27	-216.77	0.00	0.00	0.00
4,500.00	5.44	312.70	4,484.62	222.58	-241.23	-223.21	0.00	0.00	0.00
4,600.00	5.44	312.70	4,584.17	229.01	-248.19	-229.66	0.00	0.00	0.00
4,700.00	5.44	312.70	4,683.72	235.43	-255.16	-236.10	0.00	0.00	0.00

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Will 6-62-15-0202BH2
Company:	Bill Barrett Corp.	TVD Reference:	Well @ 4777.00usft
Project:	Weld Co., CO	MD Reference:	Well @ 4777.00usft
Site:	Sec.15-T6N-R62W	North Reference:	True
Well:	Will 6-62-15-0202BH2	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	5.44	312.70	4,783.27	241.86	-262.12	-242.55	0.00	0.00	0.00
Shannon									
4,897.56	5.44	312.70	4,880.39	248.13	-268.92	-248.83	0.00	0.00	0.00
4,900.00	5.44	312.70	4,882.82	248.29	-269.09	-248.99	0.00	0.00	0.00
5,000.00	5.44	312.70	4,982.37	254.71	-276.05	-255.43	0.00	0.00	0.00
5,100.00	5.44	312.70	5,081.92	261.14	-283.01	-261.88	0.00	0.00	0.00
5,200.00	5.44	312.70	5,181.47	267.56	-289.98	-268.32	0.00	0.00	0.00
Start Drop -2.00									
5,259.90	5.44	312.70	5,241.10	271.41	-294.15	-272.18	0.00	0.00	0.00
5,300.00	4.63	312.70	5,281.05	273.80	-296.73	-274.57	2.00	-2.00	0.00
5,400.00	2.63	312.70	5,380.84	278.10	-301.39	-278.88	2.00	-2.00	0.00
5,500.00	0.63	312.70	5,480.79	280.03	-303.49	-280.82	2.00	-2.00	0.00
Start 500.02 hold at 5531.75 MD									
5,531.75	0.00	0.00	5,512.54	280.15	-303.62	-280.94	2.00	-2.00	0.00
5,600.00	0.00	0.00	5,580.79	280.15	-303.62	-280.94	0.00	0.00	0.00
5,700.00	0.00	0.00	5,680.79	280.15	-303.62	-280.94	0.00	0.00	0.00
5,800.00	0.00	0.00	5,780.79	280.15	-303.62	-280.94	0.00	0.00	0.00
5,900.00	0.00	0.00	5,880.79	280.15	-303.62	-280.94	0.00	0.00	0.00
6,000.00	0.00	0.00	5,980.79	280.15	-303.62	-280.94	0.00	0.00	0.00
Start Build 12.00									
6,031.77	0.00	0.00	6,012.56	280.15	-303.62	-280.94	0.00	0.00	0.00
6,050.00	2.19	179.85	6,030.79	279.80	-303.62	-280.60	12.00	12.00	0.00
6,075.00	5.19	179.85	6,055.73	278.19	-303.61	-278.99	12.00	12.00	0.00
6,100.00	8.19	179.85	6,080.56	275.28	-303.61	-276.08	12.00	12.00	0.00
6,125.00	11.19	179.85	6,105.20	271.08	-303.60	-271.87	12.00	12.00	0.00
6,150.00	14.19	179.85	6,129.59	265.59	-303.58	-266.38	12.00	12.00	0.00
6,175.00	17.19	179.85	6,153.65	258.83	-303.56	-259.62	12.00	12.00	0.00
6,200.00	20.19	179.85	6,177.33	250.82	-303.54	-251.61	12.00	12.00	0.00
6,225.00	23.19	179.85	6,200.56	241.58	-303.52	-242.37	12.00	12.00	0.00
6,250.00	26.19	179.85	6,223.27	231.14	-303.49	-231.93	12.00	12.00	0.00
Sharon Springs									
6,274.67	29.15	179.85	6,245.12	219.69	-303.46	-220.48	12.00	12.00	0.00
6,275.00	29.19	179.85	6,245.41	219.52	-303.46	-220.32	12.00	12.00	0.00
6,300.00	32.19	179.85	6,266.90	206.77	-303.42	-207.56	12.00	12.00	0.00
6,325.00	35.19	179.85	6,287.70	192.90	-303.38	-193.70	12.00	12.00	0.00
6,350.00	38.19	179.85	6,307.75	177.97	-303.34	-178.76	12.00	12.00	0.00
6,375.00	41.19	179.85	6,326.99	162.00	-303.30	-162.80	12.00	12.00	0.00
Niobrara									
6,382.40	42.08	179.85	6,332.52	157.09	-303.29	-157.88	12.00	12.00	0.00
6,400.00	44.19	179.85	6,345.36	145.06	-303.26	-145.85	12.00	12.00	0.00
6,425.00	47.19	179.85	6,362.82	127.17	-303.21	-127.96	12.00	12.00	0.00
A Chalk									
6,435.92	48.50	179.85	6,370.15	119.07	-303.19	-119.87	12.00	12.00	0.00
6,450.00	50.19	179.85	6,379.32	108.39	-303.16	-109.19	12.00	12.00	0.00
6,475.00	53.19	179.85	6,394.82	88.78	-303.10	-89.57	12.00	12.00	0.00
A Marl									
6,481.72	53.99	179.85	6,398.81	83.37	-303.09	-84.17	12.00	12.00	0.00
6,500.00	56.19	179.85	6,409.27	68.38	-303.05	-69.17	12.00	12.00	0.00
6,525.00	59.19	179.85	6,422.63	47.26	-302.99	-48.05	12.00	12.00	0.00
6,550.00	62.19	179.85	6,434.87	25.46	-302.93	-26.25	12.00	12.00	0.00
6,575.00	65.19	179.85	6,445.95	3.05	-302.87	-3.84	12.00	12.00	0.00
6,600.00	68.19	179.85	6,455.84	-19.91	-302.81	19.11	12.00	12.00	0.00
Top B Target									

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Will 6-62-15-0202BH2
Company:	Bill Barrett Corp.	TVD Reference:	Well @ 4777.00usft
Project:	Weld Co., CO	MD Reference:	Well @ 4777.00usft
Site:	Sec.15-T6N-R62W	North Reference:	True
Well:	Will 6-62-15-0202BH2	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)	
6,622.22	70.85	179.85	6,463.62	-40.72	-302.75	39.93	12.00	12.00	0.00	
6,625.00	71.19	179.85	6,464.52	-43.35	-302.75	42.55	12.00	12.00	0.00	
6,650.00	74.19	179.85	6,471.96	-67.21	-302.68	66.42	12.00	12.00	0.00	
6,675.00	77.19	179.85	6,478.14	-91.43	-302.62	90.64	12.00	12.00	0.00	
6,700.00	80.19	179.85	6,483.04	-115.95	-302.55	115.15	12.00	12.00	0.00	
6,725.00	83.19	179.85	6,486.65	-140.68	-302.48	139.89	12.00	12.00	0.00	
6,750.00	86.19	179.85	6,488.97	-165.57	-302.42	164.78	12.00	12.00	0.00	
6,775.00	89.19	179.85	6,489.98	-190.55	-302.35	189.75	12.00	12.00	0.00	
Start 5233.79 hold at 6786.33 MD - 7" Csg.										
6,786.33	90.55	179.85	6,490.00	-201.88	-302.32	201.08	12.00	12.00	0.00	
6,800.00	90.55	179.85	6,489.87	-215.54	-302.28	214.75	0.00	0.00	0.00	
6,900.00	90.55	179.85	6,488.92	-315.54	-302.01	314.75	0.00	0.00	0.00	
7,000.00	90.55	179.85	6,487.96	-415.54	-301.74	414.74	0.00	0.00	0.00	
7,100.00	90.55	179.85	6,487.01	-515.53	-301.47	514.74	0.00	0.00	0.00	
7,200.00	90.55	179.85	6,486.05	-615.53	-301.20	614.73	0.00	0.00	0.00	
7,300.00	90.55	179.85	6,485.10	-715.52	-300.93	714.73	0.00	0.00	0.00	
7,400.00	90.55	179.85	6,484.14	-815.52	-300.66	814.73	0.00	0.00	0.00	
7,500.00	90.55	179.85	6,483.19	-915.51	-300.39	914.72	0.00	0.00	0.00	
7,600.00	90.55	179.85	6,482.23	-1,015.51	-300.12	1,014.72	0.00	0.00	0.00	
7,700.00	90.55	179.85	6,481.27	-1,115.50	-299.86	1,114.71	0.00	0.00	0.00	
7,800.00	90.55	179.85	6,480.32	-1,215.50	-299.59	1,214.71	0.00	0.00	0.00	
7,900.00	90.55	179.85	6,479.36	-1,315.49	-299.32	1,314.70	0.00	0.00	0.00	
8,000.00	90.55	179.85	6,478.41	-1,415.49	-299.05	1,414.70	0.00	0.00	0.00	
8,100.00	90.55	179.85	6,477.45	-1,515.48	-298.78	1,514.69	0.00	0.00	0.00	
8,200.00	90.55	179.85	6,476.50	-1,615.48	-298.51	1,614.69	0.00	0.00	0.00	
8,300.00	90.55	179.85	6,475.54	-1,715.47	-298.24	1,714.68	0.00	0.00	0.00	
8,400.00	90.55	179.85	6,474.59	-1,815.47	-297.97	1,814.68	0.00	0.00	0.00	
8,500.00	90.55	179.85	6,473.63	-1,915.46	-297.70	1,914.68	0.00	0.00	0.00	
8,600.00	90.55	179.85	6,472.68	-2,015.46	-297.43	2,014.67	0.00	0.00	0.00	
8,700.00	90.55	179.85	6,471.72	-2,115.45	-297.16	2,114.67	0.00	0.00	0.00	
8,800.00	90.55	179.85	6,470.77	-2,215.45	-296.89	2,214.66	0.00	0.00	0.00	
8,900.00	90.55	179.85	6,469.81	-2,315.44	-296.62	2,314.66	0.00	0.00	0.00	
9,000.00	90.55	179.85	6,468.86	-2,415.44	-296.35	2,414.65	0.00	0.00	0.00	
9,100.00	90.55	179.85	6,467.90	-2,515.43	-296.08	2,514.65	0.00	0.00	0.00	
9,200.00	90.55	179.85	6,466.95	-2,615.43	-295.81	2,614.64	0.00	0.00	0.00	
9,300.00	90.55	179.85	6,465.99	-2,715.42	-295.54	2,714.64	0.00	0.00	0.00	
9,400.00	90.55	179.85	6,465.03	-2,815.42	-295.27	2,814.63	0.00	0.00	0.00	
9,500.00	90.55	179.85	6,464.08	-2,915.41	-295.00	2,914.63	0.00	0.00	0.00	
9,600.00	90.55	179.85	6,463.12	-3,015.41	-294.73	3,014.62	0.00	0.00	0.00	
9,700.00	90.55	179.85	6,462.17	-3,115.40	-294.46	3,114.62	0.00	0.00	0.00	
9,800.00	90.55	179.85	6,461.21	-3,215.40	-294.19	3,214.62	0.00	0.00	0.00	
9,900.00	90.55	179.85	6,460.26	-3,315.39	-293.92	3,314.61	0.00	0.00	0.00	
10,000.00	90.55	179.85	6,459.30	-3,415.39	-293.65	3,414.61	0.00	0.00	0.00	
10,100.00	90.55	179.85	6,458.35	-3,515.38	-293.38	3,514.60	0.00	0.00	0.00	
10,200.00	90.55	179.85	6,457.39	-3,615.38	-293.11	3,614.60	0.00	0.00	0.00	
10,300.00	90.55	179.85	6,456.44	-3,715.37	-292.84	3,714.59	0.00	0.00	0.00	
10,400.00	90.55	179.85	6,455.48	-3,815.37	-292.57	3,814.59	0.00	0.00	0.00	
10,500.00	90.55	179.85	6,454.53	-3,915.36	-292.30	3,914.58	0.00	0.00	0.00	
10,600.00	90.55	179.85	6,453.57	-4,015.36	-292.03	4,014.58	0.00	0.00	0.00	
10,700.00	90.55	179.85	6,452.62	-4,115.35	-291.76	4,114.57	0.00	0.00	0.00	
10,800.00	90.55	179.85	6,451.66	-4,215.35	-291.49	4,214.57	0.00	0.00	0.00	
10,900.00	90.55	179.85	6,450.70	-4,315.34	-291.22	4,314.57	0.00	0.00	0.00	
11,000.00	90.55	179.85	6,449.75	-4,415.34	-290.95	4,414.56	0.00	0.00	0.00	

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Will 6-62-15-0202BH2
Company:	Bill Barrett Corp.	TVD Reference:	Well @ 4777.00usft
Project:	Weld Co., CO	MD Reference:	Well @ 4777.00usft
Site:	Sec.15-T6N-R62W	North Reference:	True
Well:	Will 6-62-15-0202BH2	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)
11,100.00	90.55	179.85	6,448.79	-4,515.33	-290.68	4,514.56	0.00	0.00	0.00
11,200.00	90.55	179.85	6,447.84	-4,615.33	-290.41	4,614.55	0.00	0.00	0.00
11,300.00	90.55	179.85	6,446.88	-4,715.32	-290.14	4,714.55	0.00	0.00	0.00
11,400.00	90.55	179.85	6,445.93	-4,815.32	-289.87	4,814.54	0.00	0.00	0.00
11,500.00	90.55	179.85	6,444.97	-4,915.31	-289.60	4,914.54	0.00	0.00	0.00
11,600.00	90.55	179.85	6,444.02	-5,015.31	-289.33	5,014.53	0.00	0.00	0.00
11,700.00	90.55	179.85	6,443.06	-5,115.30	-289.07	5,114.53	0.00	0.00	0.00
11,800.00	90.55	179.85	6,442.11	-5,215.30	-288.80	5,214.52	0.00	0.00	0.00
11,900.00	90.55	179.85	6,441.15	-5,315.29	-288.53	5,314.52	0.00	0.00	0.00
12,000.00	90.55	179.85	6,440.20	-5,415.29	-288.26	5,414.52	0.00	0.00	0.00
TD at 12020.12									
12,020.12	90.55	179.85	6,440.00	-5,435.41	-288.20	5,434.64	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									
Will 6-62-15-0202BH2 tc	0.00	0.00	6,440.00	-5,435.41	-288.20	1,419,436.849	3,329,680.451	40° 28' 43.349 N	104° 18' 53.500 W
- plan hits target center									
- Point									

Casing Points						Casing Diameter (")	Hole Diameter (")
Measured Depth (usft)	Vertical Depth (usft)	Name					
6,786.33	6,490.00	7" Csg.				7	8-3/4

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,157.77	4,142.00	sussex		-0.55	179.85	
4,897.56	4,878.00	Shannon		-0.55	179.85	
6,274.67	6,243.00	Sharon Springs		-0.55	179.85	
6,382.40	6,331.00	Niobrara		-0.55	179.85	
6,435.92	6,369.00	A Chalk		-0.55	179.85	
6,481.72	6,398.00	A Marl		-0.55	179.85	
6,622.22	6,464.00	Top B Target		-0.55	179.85	

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Will 6-62-15-0202BH2
Company:	Bill Barrett Corp.	TVD Reference:	Well @ 4777.00usft
Project:	Weld Co., CO	MD Reference:	Well @ 4777.00usft
Site:	Sec.15-T6N-R62W	North Reference:	True
Well:	Will 6-62-15-0202BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
900.00	900.00	0.00	0.00	Start Build 2.00
1,171.85	1,171.44	8.74	-9.47	Start 4088.05 hold at 1171.85 MD
5,259.90	5,241.10	271.41	-294.15	Start Drop -2.00
5,531.75	5,512.54	280.15	-303.62	Start 500.02 hold at 5531.75 MD
6,031.77	6,012.56	280.15	-303.62	Start Build 12.00
6,786.33	6,490.00	-201.87	-302.32	Start 5233.79 hold at 6786.33 MD
12,020.12	6,440.00	-5,435.41	-288.20	TD at 12020.12