

BILL BARRETT CORP

Weld Cty, CO

Circle B 6-66-9 Pad

Circle B 6-66-9-0461CDH

Wellbore #1

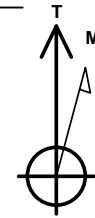
Plan: Design #1

Standard Planning Report

17 October, 2013

BILL BARRETT CORP
Circle B 6-66-9-0461CDH
Weld Cty, CO

Geodetic System: US State Plane 1983
Zone: Colorado Northern Zone
WELL @ 4837.0usft (Original Well Elev)
Ground Level: 4814.0
Latitude: 40° 30' 33.372 N
Longitude: 104° 47' 5.892 W
Magnetic North is 8.61° East of True North (Magnetic Declination)



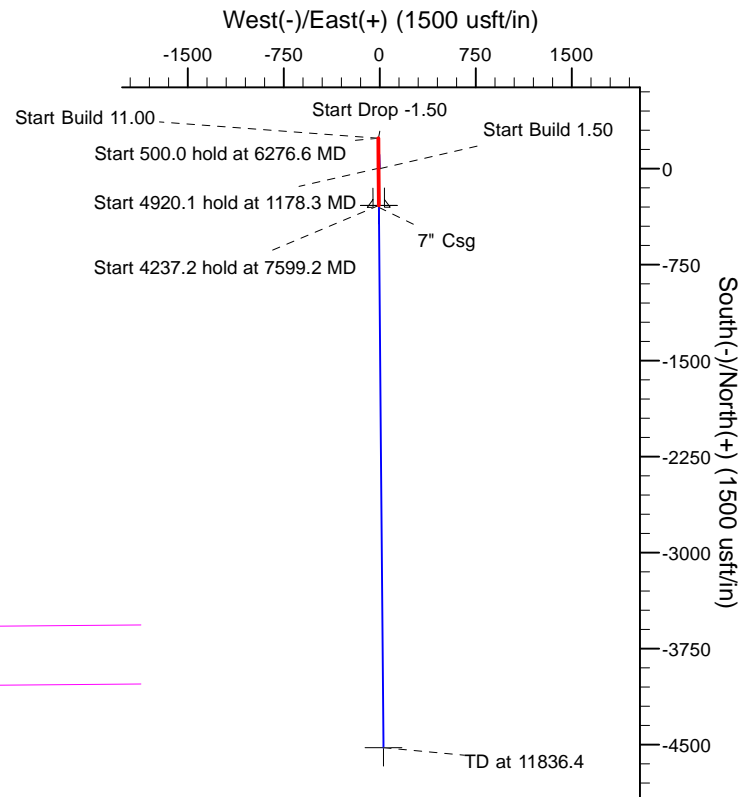
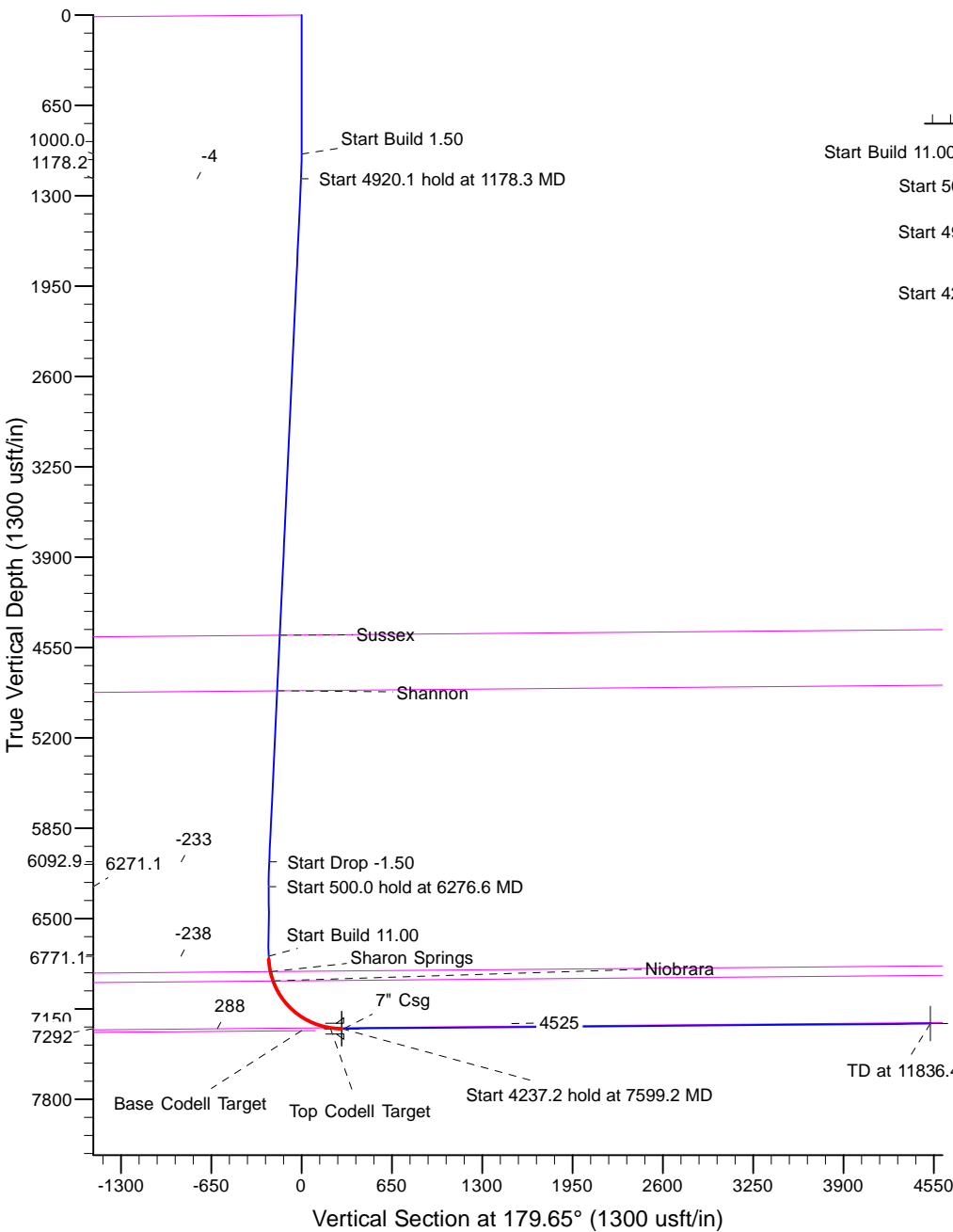
Azimuths to True North
Magnetic North: 8.62°

Magnetic Field
Strength: 52975.0snT
Dip Angle: 67.07°
Date: 6/17/2013
Model: IGRF2010

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0
1178.3	2.67	356.92	1178.2	4.2	-0.2	1.50	356.92	-4.2
6098.3	2.67	356.92	6092.9	233.3	-12.6	0.00	0.00	-233.4
6276.6	0.00	0.00	6271.1	237.5	-12.8	1.50	180.00	-237.6
6776.6	0.00	0.00	6771.1	237.5	-12.8	0.00	0.00	-237.6
7599.2	90.49	179.51	7291.9	-287.8	-8.3	11.00	179.51	287.7
11836.4	90.49	179.51	7256.0	-4524.7	27.9	0.00	0.00	4524.8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4462.3	4466.0	Sussex
4861.5	4865.6	Shannon
6882.9	6889.3	Sharon Springs
6949.7	6958.9	Niobrara
7286.2	7517.4	Top Codell Target



Plan: Design #1 (Circle B 6-66-9-0461CDH/Wellbore #1)

Created By: Mike Kirby Date: 14:41, October 17 2013
Checked: Date:
Reviewed: Date:
Approved: x Date: x

Planning Report

Database:	Rocky Mountain R5000 Database	Local Co-ordinate Reference:	Well Circle B 6-66-9-0461CDH
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 4837.0usft (Original Well Elev)
Project:	Weld Cty, CO	MD Reference:	WELL @ 4837.0usft (Original Well Elev)
Site:	Circle B 6-66-9 Pad	North Reference:	True
Well:	Circle B 6-66-9-0461CDH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site		Circle B 6-66-9 Pad			
Site Position:		Northing:	1,429,173.75 usft	Latitude:	40° 30' 33.408 N
From:	Lat/Long	Easting:	3,198,931.31 usft	Longitude:	104° 47' 4.452 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	Circle B 6-66-9-0461CDH					
Well Position	+N/-S	0.0 usft	Northing:	1,429,173.56 usft	Latitude:	40° 30' 33.408 N
	+E/-W	-22.2 usft	Easting:	3,198,909.07 usft	Longitude:	104° 47' 4.740 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,814.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/17/2013	8.61	67.07	52,975

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.65

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,178.3	2.67	356.92	1,178.2	4.2	-0.2	1.50	1.50	0.00	356.92	
6,098.3	2.67	356.92	6,092.9	233.3	-12.6	0.00	0.00	0.00	0.00	
6,276.6	0.00	0.00	6,271.1	237.5	-12.8	1.50	-1.50	0.00	180.00	
6,776.6	0.00	0.00	6,771.1	237.5	-12.8	0.00	0.00	0.00	0.00	
7,599.2	90.49	179.51	7,291.9	-287.8	-8.3	11.00	11.00	0.00	179.51	
11,836.4	90.49	179.51	7,256.0	-4,524.7	27.9	0.00	0.00	0.00	0.00	CB 0461CDH PBHL (

Planning Report

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Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 4837.0usft (Original Well Elev)
Project:	Weld Cty, CO	MD Reference:	WELL @ 4837.0usft (Original Well Elev)
Site:	Circle B 6-66-9 Pad	North Reference:	True
Well:	Circle B 6-66-9-0461CDH	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	1.50	356.92	1,100.0	1.3	-0.1	-1.3	1.50	1.50	0.00
1,178.3	2.67	356.92	1,178.2	4.2	-0.2	-4.2	1.50	1.50	0.00
1,200.0	2.67	356.92	1,199.9	5.2	-0.3	-5.2	0.00	0.00	0.00
1,300.0	2.67	356.92	1,299.8	9.8	-0.5	-9.8	0.00	0.00	0.00
1,400.0	2.67	356.92	1,399.7	14.5	-0.8	-14.5	0.00	0.00	0.00
1,500.0	2.67	356.92	1,499.6	19.1	-1.0	-19.1	0.00	0.00	0.00
1,600.0	2.67	356.92	1,599.5	23.8	-1.3	-23.8	0.00	0.00	0.00
1,700.0	2.67	356.92	1,699.4	28.5	-1.5	-28.5	0.00	0.00	0.00
1,800.0	2.67	356.92	1,799.3	33.1	-1.8	-33.1	0.00	0.00	0.00
1,900.0	2.67	356.92	1,899.1	37.8	-2.0	-37.8	0.00	0.00	0.00
2,000.0	2.67	356.92	1,999.0	42.4	-2.3	-42.4	0.00	0.00	0.00
2,100.0	2.67	356.92	2,098.9	47.1	-2.5	-47.1	0.00	0.00	0.00
2,200.0	2.67	356.92	2,198.8	51.7	-2.8	-51.8	0.00	0.00	0.00
2,300.0	2.67	356.92	2,298.7	56.4	-3.0	-56.4	0.00	0.00	0.00
2,400.0	2.67	356.92	2,398.6	61.1	-3.3	-61.1	0.00	0.00	0.00
2,500.0	2.67	356.92	2,498.5	65.7	-3.5	-65.7	0.00	0.00	0.00
2,600.0	2.67	356.92	2,598.4	70.4	-3.8	-70.4	0.00	0.00	0.00
2,700.0	2.67	356.92	2,698.3	75.0	-4.0	-75.1	0.00	0.00	0.00
2,800.0	2.67	356.92	2,798.2	79.7	-4.3	-79.7	0.00	0.00	0.00
2,900.0	2.67	356.92	2,898.1	84.4	-4.5	-84.4	0.00	0.00	0.00
3,000.0	2.67	356.92	2,998.0	89.0	-4.8	-89.0	0.00	0.00	0.00
3,100.0	2.67	356.92	3,097.8	93.7	-5.0	-93.7	0.00	0.00	0.00
3,200.0	2.67	356.92	3,197.7	98.3	-5.3	-98.4	0.00	0.00	0.00
3,300.0	2.67	356.92	3,297.6	103.0	-5.6	-103.0	0.00	0.00	0.00
3,400.0	2.67	356.92	3,397.5	107.6	-5.8	-107.7	0.00	0.00	0.00
3,500.0	2.67	356.92	3,497.4	112.3	-6.1	-112.3	0.00	0.00	0.00
3,600.0	2.67	356.92	3,597.3	117.0	-6.3	-117.0	0.00	0.00	0.00
3,700.0	2.67	356.92	3,697.2	121.6	-6.6	-121.7	0.00	0.00	0.00
3,800.0	2.67	356.92	3,797.1	126.3	-6.8	-126.3	0.00	0.00	0.00
3,900.0	2.67	356.92	3,897.0	130.9	-7.1	-131.0	0.00	0.00	0.00
4,000.0	2.67	356.92	3,996.9	135.6	-7.3	-135.6	0.00	0.00	0.00
4,100.0	2.67	356.92	4,096.8	140.3	-7.6	-140.3	0.00	0.00	0.00
4,200.0	2.67	356.92	4,196.6	144.9	-7.8	-145.0	0.00	0.00	0.00
4,300.0	2.67	356.92	4,296.5	149.6	-8.1	-149.6	0.00	0.00	0.00
4,400.0	2.67	356.92	4,396.4	154.2	-8.3	-154.3	0.00	0.00	0.00
4,466.0	2.67	356.92	4,462.3	157.3	-8.5	-157.4	0.00	0.00	0.00
Sussex									
4,500.0	2.67	356.92	4,496.3	158.9	-8.6	-158.9	0.00	0.00	0.00
4,600.0	2.67	356.92	4,596.2	163.6	-8.8	-163.6	0.00	0.00	0.00
4,700.0	2.67	356.92	4,696.1	168.2	-9.1	-168.3	0.00	0.00	0.00
4,800.0	2.67	356.92	4,796.0	172.9	-9.3	-172.9	0.00	0.00	0.00
4,865.6	2.67	356.92	4,861.5	175.9	-9.5	-176.0	0.00	0.00	0.00
Shannon									

Planning Report

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Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 4837.0usft (Original Well Elev)
Project:	Weld Cty, CO	MD Reference:	WELL @ 4837.0usft (Original Well Elev)
Site:	Circle B 6-66-9 Pad	North Reference:	True
Well:	Circle B 6-66-9-0461CDH	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)
4,900.0	2.67	356.92	4,895.9	177.5	-9.6	-177.6	0.00	0.00	0.00
5,000.0	2.67	356.92	4,995.8	182.2	-9.8	-182.2	0.00	0.00	0.00
5,100.0	2.67	356.92	5,095.7	186.8	-10.1	-186.9	0.00	0.00	0.00
5,200.0	2.67	356.92	5,195.6	191.5	-10.3	-191.6	0.00	0.00	0.00
5,300.0	2.67	356.92	5,295.4	196.2	-10.6	-196.2	0.00	0.00	0.00
5,400.0	2.67	356.92	5,395.3	200.8	-10.8	-200.9	0.00	0.00	0.00
5,500.0	2.67	356.92	5,495.2	205.5	-11.1	-205.5	0.00	0.00	0.00
5,600.0	2.67	356.92	5,595.1	210.1	-11.3	-210.2	0.00	0.00	0.00
5,700.0	2.67	356.92	5,695.0	214.8	-11.6	-214.9	0.00	0.00	0.00
5,800.0	2.67	356.92	5,794.9	219.5	-11.8	-219.5	0.00	0.00	0.00
5,900.0	2.67	356.92	5,894.8	224.1	-12.1	-224.2	0.00	0.00	0.00
6,000.0	2.67	356.92	5,994.7	228.8	-12.3	-228.8	0.00	0.00	0.00
6,098.3	2.67	356.92	6,092.9	233.3	-12.6	-233.4	0.00	0.00	0.00
6,100.0	2.65	356.92	6,094.6	233.4	-12.6	-233.5	1.50	-1.50	0.00
6,200.0	1.15	356.92	6,194.5	236.7	-12.8	-236.8	1.50	-1.50	0.00
6,276.6	0.00	0.00	6,271.1	237.5	-12.8	-237.6	1.50	-1.50	0.00
6,300.0	0.00	0.00	6,294.5	237.5	-12.8	-237.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,394.5	237.5	-12.8	-237.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,494.5	237.5	-12.8	-237.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,594.5	237.5	-12.8	-237.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,694.5	237.5	-12.8	-237.6	0.00	0.00	0.00
6,776.6	0.00	0.00	6,771.1	237.5	-12.8	-237.6	0.00	0.00	0.00
6,800.0	2.58	179.51	6,794.5	237.0	-12.8	-237.0	11.00	11.00	0.00
6,889.3	12.40	179.51	6,882.9	225.4	-12.7	-225.4	11.00	11.00	0.00
Sharon Springs									
6,900.0	13.58	179.51	6,893.4	222.9	-12.7	-223.0	11.00	11.00	0.00
6,958.9	20.06	179.51	6,949.7	205.9	-12.5	-206.0	11.00	11.00	0.00
Niobrara									
7,000.0	24.58	179.51	6,987.7	190.3	-12.4	-190.4	11.00	11.00	0.00
7,100.0	35.58	179.51	7,074.1	140.3	-12.0	-140.3	11.00	11.00	0.00
7,200.0	46.58	179.51	7,149.4	74.7	-11.4	-74.7	11.00	11.00	0.00
7,300.0	57.58	179.51	7,210.8	-4.1	-10.7	4.0	11.00	11.00	0.00
7,400.0	68.58	179.51	7,256.0	-93.1	-10.0	93.0	11.00	11.00	0.00
7,500.0	79.58	179.51	7,283.4	-189.1	-9.2	189.1	11.00	11.00	0.00
7,517.4	81.49	179.51	7,286.2	-206.3	-9.0	206.2	11.00	11.00	0.00
Top Codell Target									
7,599.2	90.49	179.51	7,291.9	-287.8	-8.3	287.7	11.00	11.00	0.00
7" Csg									
7,600.0	90.49	179.51	7,291.9	-288.6	-8.3	288.5	0.00	0.00	0.00
7,700.0	90.49	179.51	7,291.1	-388.6	-7.4	388.5	0.00	0.00	0.00
7,800.0	90.49	179.51	7,290.2	-488.6	-6.6	488.5	0.00	0.00	0.00
7,900.0	90.49	179.51	7,289.4	-588.6	-5.7	588.5	0.00	0.00	0.00
8,000.0	90.49	179.51	7,288.5	-688.6	-4.9	688.5	0.00	0.00	0.00
8,100.0	90.49	179.51	7,287.7	-788.6	-4.0	788.5	0.00	0.00	0.00
8,200.0	90.49	179.51	7,286.8	-888.6	-3.2	888.5	0.00	0.00	0.00
8,300.0	90.49	179.51	7,286.0	-988.5	-2.3	988.5	0.00	0.00	0.00
8,400.0	90.49	179.51	7,285.1	-1,088.5	-1.5	1,088.5	0.00	0.00	0.00
8,500.0	90.49	179.51	7,284.3	-1,188.5	-0.6	1,188.5	0.00	0.00	0.00
8,600.0	90.49	179.51	7,283.4	-1,288.5	0.3	1,288.5	0.00	0.00	0.00
8,700.0	90.49	179.51	7,282.6	-1,388.5	1.1	1,388.5	0.00	0.00	0.00
8,800.0	90.49	179.51	7,281.8	-1,488.5	2.0	1,488.5	0.00	0.00	0.00
8,900.0	90.49	179.51	7,280.9	-1,588.5	2.8	1,588.5	0.00	0.00	0.00
9,000.0	90.49	179.51	7,280.1	-1,688.5	3.7	1,688.5	0.00	0.00	0.00

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Project:	Weld Cty, CO	MD Reference:	WELL @ 4837.0usft (Original Well Elev)
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Well:	Circle B 6-66-9-0461CDH	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)	
9,100.0	90.49	179.51	7,279.2	-1,788.5	4.5	1,788.5	0.00	0.00	0.00	
9,200.0	90.49	179.51	7,278.4	-1,888.5	5.4	1,888.5	0.00	0.00	0.00	
9,300.0	90.49	179.51	7,277.5	-1,988.5	6.2	1,988.5	0.00	0.00	0.00	
9,400.0	90.49	179.51	7,276.7	-2,088.5	7.1	2,088.5	0.00	0.00	0.00	
9,500.0	90.49	179.51	7,275.8	-2,188.5	7.9	2,188.5	0.00	0.00	0.00	
9,600.0	90.49	179.51	7,275.0	-2,288.5	8.8	2,288.5	0.00	0.00	0.00	
9,700.0	90.49	179.51	7,274.1	-2,388.4	9.7	2,388.5	0.00	0.00	0.00	
9,800.0	90.49	179.51	7,273.3	-2,488.4	10.5	2,488.5	0.00	0.00	0.00	
9,900.0	90.49	179.51	7,272.4	-2,588.4	11.4	2,588.5	0.00	0.00	0.00	
10,000.0	90.49	179.51	7,271.6	-2,688.4	12.2	2,688.4	0.00	0.00	0.00	
10,100.0	90.49	179.51	7,270.7	-2,788.4	13.1	2,788.4	0.00	0.00	0.00	
10,200.0	90.49	179.51	7,269.9	-2,888.4	13.9	2,888.4	0.00	0.00	0.00	
10,300.0	90.49	179.51	7,269.0	-2,988.4	14.8	2,988.4	0.00	0.00	0.00	
10,400.0	90.49	179.51	7,268.2	-3,088.4	15.6	3,088.4	0.00	0.00	0.00	
10,500.0	90.49	179.51	7,267.3	-3,188.4	16.5	3,188.4	0.00	0.00	0.00	
10,600.0	90.49	179.51	7,266.5	-3,288.4	17.4	3,288.4	0.00	0.00	0.00	
10,700.0	90.49	179.51	7,265.6	-3,388.4	18.2	3,388.4	0.00	0.00	0.00	
10,800.0	90.49	179.51	7,264.8	-3,488.4	19.1	3,488.4	0.00	0.00	0.00	
10,900.0	90.49	179.51	7,263.9	-3,588.4	19.9	3,588.4	0.00	0.00	0.00	
11,000.0	90.49	179.51	7,263.1	-3,688.4	20.8	3,688.4	0.00	0.00	0.00	
11,100.0	90.49	179.51	7,262.2	-3,788.3	21.6	3,788.4	0.00	0.00	0.00	
11,200.0	90.49	179.51	7,261.4	-3,888.3	22.5	3,888.4	0.00	0.00	0.00	
11,300.0	90.49	179.51	7,260.5	-3,988.3	23.3	3,988.4	0.00	0.00	0.00	
11,400.0	90.49	179.51	7,259.7	-4,088.3	24.2	4,088.4	0.00	0.00	0.00	
11,500.0	90.49	179.51	7,258.9	-4,188.3	25.1	4,188.4	0.00	0.00	0.00	
11,600.0	90.49	179.51	7,258.0	-4,288.3	25.9	4,288.4	0.00	0.00	0.00	
11,700.0	90.49	179.51	7,257.2	-4,388.3	26.8	4,388.4	0.00	0.00	0.00	
11,800.0	90.49	179.51	7,256.3	-4,488.3	27.6	4,488.4	0.00	0.00	0.00	
11,836.4	90.49	179.51	7,256.0	-4,524.7	27.9	4,524.8	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
CB 0461CDH PBHL (coi - plan hits target center - Point	0.00	358.35	7,256.0	-4,524.7	27.9	1,424,649.27	3,198,973.47	40° 29' 48.696 N		104° 47' 4.379 W
CD0461CDH LP - plan misses target center by 0.1usft at 7599.2usft MD (7291.9 TVD, -287.8 N, -8.3 E) - Point	0.00	0.00	7,291.9	-287.8	-8.3	1,428,885.71	3,198,903.05	40° 30' 30.564 N		104° 47' 4.848 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
7,599.2	7,291.9	7" Csg		7	8-3/4

Planning Report

Database:	Rocky Mountain R5000 Database	Local Co-ordinate Reference:	Well Circle B 6-66-9-0461CDH
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 4837.0usft (Original Well Elev)
Project:	Weld Cty, CO	MD Reference:	WELL @ 4837.0usft (Original Well Elev)
Site:	Circle B 6-66-9 Pad	North Reference:	True
Well:	Circle B 6-66-9-0461CDH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,466.0	4,462.3	Sussex		-0.49	179.51	
4,865.6	4,861.5	Shannon		-0.49	179.51	
6,889.3	6,882.9	Sharon Springs		-0.49	179.51	
6,958.9	6,949.7	Niobrara		-0.49	179.51	
7,517.4	7,286.2	Top Codell Target		-0.49	179.51	