

BILL BARRETT CORP

WELD COUNTY, COLORADO

Will 6-62-15_22 NENW Pad

WILL 6-62-15-0560CDH2

Wellbore #1

Plan: Design #1

Standard Planning Report

22 August, 2014



Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well WILL 6-62-15-0560CDH2, True North
Vertical (TVD) Reference: KB @ 4772.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: KB @ 4772.0ft (Original Well Elev)
Calculation Method: Minimum Curvature

WELL DETAILS: WILL 6-62-15-0560CDH2

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1424896.72	3331090.02	40° 29' 37.111 N	104° 18' 34.312 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1585.2	11.70	71.78	1581.1	18.6	56.6	2.00	71.78	-13.8	
4	5430.4	11.70	71.78	5346.4	262.5	797.5	0.00	0.00	-194.8	
5	6015.6	0.00	180.22	5927.6	281.1	854.1	2.00	180.00	-208.6	
6	6265.6	0.00	180.22	6177.6	281.1	854.1	0.00	0.00	-208.6	
7	7019.6	90.48	180.22	6655.0	-200.3	852.2	12.00	0.00	271.0	W 15-0560CDH2 LP
8	16521.5	90.48	180.22	6575.0	-9701.8	815.2	0.00	0.00	9736.0	W 15-0560CDH2 PBHL

PROJECT DETAILS: WELD COUNTY, COLORADO

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

FORMATION TOP DETAILS

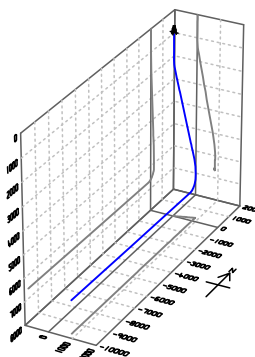
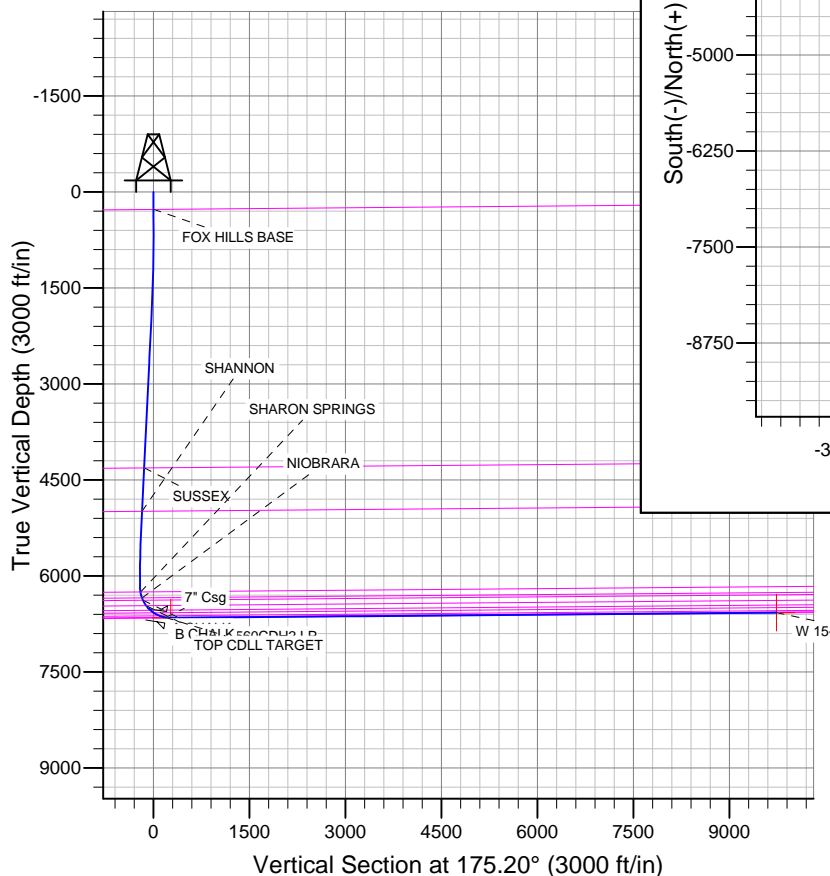
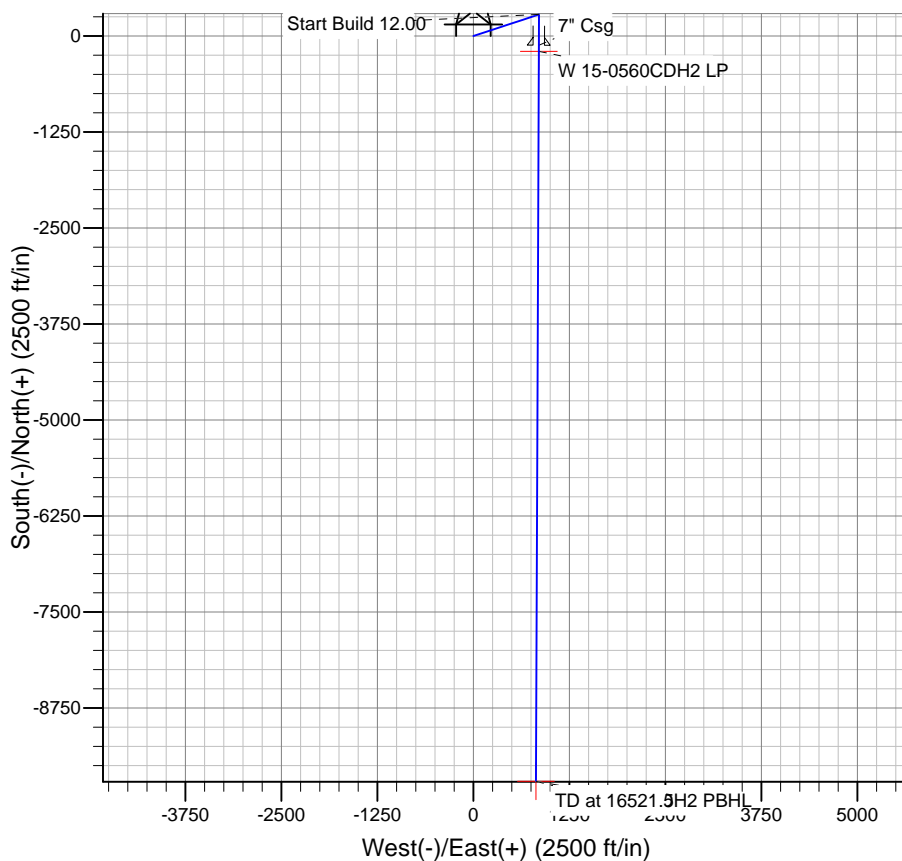
TVDP	Path	MDP	Path	Formation
272.0	272.0			BASE CDLL TARGET
4311.7	4317.3			FOX HILLS BASE
4992.0	5068.5			SUSSEX
6252.3	6340.7			SHANNON
6345.1	6436.8			SHARON SPRINGS
6380.0	6474.7			NIOBRARA
6466.6	6576.0			A CHALK
6539.0	6675.6			B CHALK
6577.6	6739.8			C CHALK
6623.8	6842.0			C MARL
6648.1	6934.0			FT HAYS
				TOP CDLL TARGET

CASING DETAILS

TVD	MD	Name	Size
6649.0	6939.9	7" Csg	7

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
W 15-0560CD165730L	165730	-9701.8	815.5	Point
W 15-0560CD165570	165570	-200.3	852.2	Point



Azimuths to True North
Magnetic North: 8.21°

Magnetic Field
Strength: 52902.8snT
Dip Angle: 67.09°
Date: 7/15/2014
Model: IGRF2010

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well WILL 6-62-15-0560CDH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4772.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4772.0ft (Original Well Elev)
Site:	Will 6-62-15_22 NENW Pad	North Reference:	True
Well:	WILL 6-62-15-0560CDH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	WELD COUNTY, COLORADO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Will 6-62-15_22 NENW Pad				
Site Position:		Northing:	1,424,895.52 ft	Latitude:	40° 29' 37.111 N	
From:	Lat/Long	Easting:	3,330,999.60 ft	Longitude:	104° 18' 35.482 W	
Position Uncertainty:		0.0 ft	Slot Radius:	"	Grid Convergence:	0.77 °

Well		WILL 6-62-15-0560CDH2				
Well Position	+N-S	0.0 ft	Northing:	1,424,896.72 ft	Latitude:	40° 29' 37.111 N
	+E-W	90.4 ft	Easting:	3,331,090.02 ft	Longitude:	104° 18' 34.312 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,750.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/15/2014	8.21	67.09	52,903

Design	Design #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	175.20	

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
0.0	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	
1,585.2	11.70	71.78	1,581.1	18.6	56.6	2.00	2.00	0.00	71.78	
5,430.4	11.70	71.78	5,346.4	262.5	797.5	0.00	0.00	0.00	0.00	
6,015.6	0.00	180.22	5,927.6	281.1	854.1	2.00	-2.00	0.00	180.00	
6,265.6	0.00	180.22	6,177.6	281.1	854.1	0.00	0.00	0.00	0.00	
7,019.6	90.48	180.22	6,655.0	-200.3	852.2	12.00	12.00	0.00	0.00	W 15-0560CDH2 LI
16,521.5	90.48	180.22	6,575.0	-9,701.8	815.2	0.00	0.00	0.00	0.00	W 15-0560CDH2 P

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well WILL 6-62-15-0560CDH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4772.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4772.0ft (Original Well Elev)
Site:	Will 6-62-15_22 NENW Pad	North Reference:	True
Well:	WILL 6-62-15-0560CDH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
0.0	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
272.0	0.00	0.00	272.0	0.0	0.0	0.0	0.00	0.00	0.00
FOX HILLS BASE									
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	2.00	71.78	1,100.0	0.5	1.7	-0.4	2.00	2.00	0.00
1,200.0	4.00	71.78	1,199.8	2.2	6.6	-1.6	2.00	2.00	0.00
1,300.0	6.00	71.78	1,299.5	4.9	14.9	-3.6	2.00	2.00	0.00
1,400.0	8.00	71.78	1,398.7	8.7	26.5	-6.5	2.00	2.00	0.00
1,500.0	10.00	71.78	1,497.5	13.6	41.3	-10.1	2.00	2.00	0.00
1,585.2	11.70	71.78	1,581.1	18.6	56.6	-13.8	2.00	2.00	0.00
1,600.0	11.70	71.78	1,595.6	19.6	59.4	-14.5	0.00	0.00	0.00
1,700.0	11.70	71.78	1,693.6	25.9	78.7	-19.2	0.00	0.00	0.00
1,800.0	11.70	71.78	1,791.5	32.2	98.0	-23.9	0.00	0.00	0.00
1,900.0	11.70	71.78	1,889.4	38.6	117.2	-28.6	0.00	0.00	0.00
2,000.0	11.70	71.78	1,987.3	44.9	136.5	-33.3	0.00	0.00	0.00
2,100.0	11.70	71.78	2,085.2	51.3	155.8	-38.1	0.00	0.00	0.00
2,200.0	11.70	71.78	2,183.2	57.6	175.0	-42.8	0.00	0.00	0.00
2,300.0	11.70	71.78	2,281.1	64.0	194.3	-47.5	0.00	0.00	0.00
2,400.0	11.70	71.78	2,379.0	70.3	213.6	-52.2	0.00	0.00	0.00
2,500.0	11.70	71.78	2,476.9	76.6	232.8	-56.9	0.00	0.00	0.00
2,600.0	11.70	71.78	2,574.8	83.0	252.1	-61.6	0.00	0.00	0.00
2,700.0	11.70	71.78	2,672.8	89.3	271.4	-66.3	0.00	0.00	0.00
2,800.0	11.70	71.78	2,770.7	95.7	290.6	-71.0	0.00	0.00	0.00
2,900.0	11.70	71.78	2,868.6	102.0	309.9	-75.7	0.00	0.00	0.00
3,000.0	11.70	71.78	2,966.5	108.4	329.2	-80.4	0.00	0.00	0.00
3,100.0	11.70	71.78	3,064.4	114.7	348.5	-85.1	0.00	0.00	0.00
3,200.0	11.70	71.78	3,162.4	121.0	367.7	-89.8	0.00	0.00	0.00
3,300.0	11.70	71.78	3,260.3	127.4	387.0	-94.5	0.00	0.00	0.00
3,400.0	11.70	71.78	3,358.2	133.7	406.3	-99.2	0.00	0.00	0.00
3,500.0	11.70	71.78	3,456.1	140.1	425.5	-104.0	0.00	0.00	0.00
3,600.0	11.70	71.78	3,554.0	146.4	444.8	-108.7	0.00	0.00	0.00
3,700.0	11.70	71.78	3,652.0	152.8	464.1	-113.4	0.00	0.00	0.00
3,800.0	11.70	71.78	3,749.9	159.1	483.3	-118.1	0.00	0.00	0.00
3,900.0	11.70	71.78	3,847.8	165.4	502.6	-122.8	0.00	0.00	0.00
4,000.0	11.70	71.78	3,945.7	171.8	521.9	-127.5	0.00	0.00	0.00
4,100.0	11.70	71.78	4,043.7	178.1	541.1	-132.2	0.00	0.00	0.00
4,200.0	11.70	71.78	4,141.6	184.5	560.4	-136.9	0.00	0.00	0.00
4,300.0	11.70	71.78	4,239.5	190.8	579.7	-141.6	0.00	0.00	0.00
4,373.7	11.70	71.78	4,311.7	195.5	593.9	-145.1	0.00	0.00	0.00
SUSSEX									
4,400.0	11.70	71.78	4,337.4	197.2	598.9	-146.3	0.00	0.00	0.00
4,500.0	11.70	71.78	4,435.3	203.5	618.2	-151.0	0.00	0.00	0.00
4,600.0	11.70	71.78	4,533.3	209.8	637.5	-155.7	0.00	0.00	0.00
4,700.0	11.70	71.78	4,631.2	216.2	656.7	-160.4	0.00	0.00	0.00
4,800.0	11.70	71.78	4,729.1	222.5	676.0	-165.2	0.00	0.00	0.00

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Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well WILL 6-62-15-0560CDH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4772.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4772.0ft (Original Well Elev)
Site:	Will 6-62-15_22 NENW Pad	North Reference:	True
Well:	WILL 6-62-15-0560CDH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
4,900.0	11.70	71.78	4,827.0	228.9	695.3	-169.9	0.00	0.00	0.00
5,000.0	11.70	71.78	4,924.9	235.2	714.5	-174.6	0.00	0.00	0.00
5,068.5	11.70	71.78	4,992.0	239.6	727.8	-177.8	0.00	0.00	0.00
SHANNON									
5,100.0	11.70	71.78	5,022.9	241.6	733.8	-179.3	0.00	0.00	0.00
5,200.0	11.70	71.78	5,120.8	247.9	753.1	-184.0	0.00	0.00	0.00
5,300.0	11.70	71.78	5,218.7	254.2	772.4	-188.7	0.00	0.00	0.00
5,400.0	11.70	71.78	5,316.6	260.6	791.6	-193.4	0.00	0.00	0.00
5,430.4	11.70	71.78	5,346.4	262.5	797.5	-194.8	0.00	0.00	0.00
5,500.0	10.31	71.78	5,414.7	266.7	810.1	-197.9	2.00	-2.00	0.00
5,600.0	8.31	71.78	5,513.4	271.7	825.5	-201.7	2.00	-2.00	0.00
5,700.0	6.31	71.78	5,612.6	275.7	837.6	-204.6	2.00	-2.00	0.00
5,800.0	4.31	71.78	5,712.1	278.6	846.4	-206.8	2.00	-2.00	0.00
5,900.0	2.31	71.78	5,812.0	280.4	851.8	-208.1	2.00	-2.00	0.00
6,000.0	0.31	71.78	5,911.9	281.1	854.0	-208.6	2.00	-2.00	0.00
6,015.6	0.00	180.22	5,927.6	281.1	854.1	-208.6	2.00	-2.00	0.00
6,100.0	0.00	180.22	6,011.9	281.1	854.1	-208.6	0.00	0.00	0.00
6,200.0	0.00	180.22	6,111.9	281.1	854.1	-208.6	0.00	0.00	0.00
6,265.6	0.00	180.22	6,177.6	281.1	854.1	-208.6	0.00	0.00	0.00
6,300.0	4.13	180.22	6,211.9	279.9	854.1	-207.4	12.00	12.00	0.00
6,340.7	9.01	180.22	6,252.3	275.3	854.0	-202.8	12.00	12.00	0.00
SHARON SPRINGS									
6,400.0	16.13	180.22	6,310.2	262.4	854.0	-189.9	12.00	12.00	0.00
6,436.8	20.55	180.22	6,345.1	250.8	853.9	-178.4	12.00	12.00	0.00
NIOBRARA									
6,474.7	25.09	180.22	6,380.0	236.1	853.9	-163.8	12.00	12.00	0.00
A CHALK									
6,500.0	28.13	180.22	6,402.6	224.8	853.8	-152.5	12.00	12.00	0.00
6,576.0	37.25	180.22	6,466.6	183.7	853.7	-111.6	12.00	12.00	0.00
B CHALK									
6,600.0	40.13	180.22	6,485.3	168.8	853.6	-96.7	12.00	12.00	0.00
6,675.6	49.20	180.22	6,539.0	115.7	853.4	-43.8	12.00	12.00	0.00
C CHALK									
6,700.0	52.13	180.22	6,554.4	96.8	853.3	-25.0	12.00	12.00	0.00
6,739.8	56.91	180.22	6,577.6	64.4	853.2	7.3	12.00	12.00	0.00
C MARL									
6,800.0	64.13	180.22	6,607.2	12.0	853.0	59.4	12.00	12.00	0.00
6,842.0	69.17	180.22	6,623.8	-26.5	852.9	97.8	12.00	12.00	0.00
FT HAYS									
6,900.0	76.13	180.22	6,641.1	-81.8	852.6	152.9	12.00	12.00	0.00
6,934.0	80.21	180.22	6,648.1	-115.1	852.5	186.1	12.00	12.00	0.00
TOP CDLL TARGET									
6,939.9	80.91	180.22	6,649.0	-120.9	852.5	191.9	12.00	12.00	0.00
7" Csg									
7,000.0	88.13	180.22	6,654.8	-180.7	852.3	251.4	12.00	12.00	0.00
7,019.6	90.48	180.22	6,655.0	-200.3	852.2	271.0	12.00	12.00	0.00
W 15-0560CDH2 LP									
7,100.0	90.48	180.22	6,654.3	-280.7	851.9	351.0	0.00	0.00	0.00
7,200.0	90.48	180.22	6,653.5	-380.7	851.5	450.6	0.00	0.00	0.00
7,300.0	90.48	180.22	6,652.6	-480.7	851.1	550.3	0.00	0.00	0.00
7,400.0	90.48	180.22	6,651.8	-580.7	850.7	649.9	0.00	0.00	0.00
7,500.0	90.48	180.22	6,651.0	-680.7	850.3	749.5	0.00	0.00	0.00
7,600.0	90.48	180.22	6,650.1	-780.7	849.9	849.1	0.00	0.00	0.00

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Database:	Compass	Local Co-ordinate Reference:	Well WILL 6-62-15-0560CDH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4772.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4772.0ft (Original Well Elev)
Site:	Will 6-62-15_22 NENW Pad	North Reference:	True
Well:	WILL 6-62-15-0560CDH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
7,700.0	90.48	180.22	6,649.3	-880.7	849.5	948.7	0.00	0.00	0.00
7,800.0	90.48	180.22	6,648.4	-980.7	849.1	1,048.3	0.00	0.00	0.00
7,900.0	90.48	180.22	6,647.6	-1,080.7	848.8	1,147.9	0.00	0.00	0.00
8,000.0	90.48	180.22	6,646.7	-1,180.7	848.4	1,247.5	0.00	0.00	0.00
8,100.0	90.48	180.22	6,645.9	-1,280.6	848.0	1,347.2	0.00	0.00	0.00
8,200.0	90.48	180.22	6,645.1	-1,380.6	847.6	1,446.8	0.00	0.00	0.00
8,300.0	90.48	180.22	6,644.2	-1,480.6	847.2	1,546.4	0.00	0.00	0.00
8,400.0	90.48	180.22	6,643.4	-1,580.6	846.8	1,646.0	0.00	0.00	0.00
8,500.0	90.48	180.22	6,642.5	-1,680.6	846.4	1,745.6	0.00	0.00	0.00
8,600.0	90.48	180.22	6,641.7	-1,780.6	846.0	1,845.2	0.00	0.00	0.00
8,700.0	90.48	180.22	6,640.9	-1,880.6	845.6	1,944.8	0.00	0.00	0.00
8,800.0	90.48	180.22	6,640.0	-1,980.6	845.3	2,044.4	0.00	0.00	0.00
8,900.0	90.48	180.22	6,639.2	-2,080.6	844.9	2,144.0	0.00	0.00	0.00
9,000.0	90.48	180.22	6,638.3	-2,180.6	844.5	2,243.7	0.00	0.00	0.00
9,100.0	90.48	180.22	6,637.5	-2,280.6	844.1	2,343.3	0.00	0.00	0.00
9,200.0	90.48	180.22	6,636.6	-2,380.6	843.7	2,442.9	0.00	0.00	0.00
9,300.0	90.48	180.22	6,635.8	-2,480.6	843.3	2,542.5	0.00	0.00	0.00
9,400.0	90.48	180.22	6,635.0	-2,580.6	842.9	2,642.1	0.00	0.00	0.00
9,500.0	90.48	180.22	6,634.1	-2,680.6	842.5	2,741.7	0.00	0.00	0.00
9,600.0	90.48	180.22	6,633.3	-2,780.6	842.1	2,841.3	0.00	0.00	0.00
9,700.0	90.48	180.22	6,632.4	-2,880.6	841.8	2,940.9	0.00	0.00	0.00
9,800.0	90.48	180.22	6,631.6	-2,980.6	841.4	3,040.6	0.00	0.00	0.00
9,900.0	90.48	180.22	6,630.7	-3,080.6	841.0	3,140.2	0.00	0.00	0.00
10,000.0	90.48	180.22	6,629.9	-3,180.6	840.6	3,239.8	0.00	0.00	0.00
10,100.0	90.48	180.22	6,629.1	-3,280.6	840.2	3,339.4	0.00	0.00	0.00
10,200.0	90.48	180.22	6,628.2	-3,380.6	839.8	3,439.0	0.00	0.00	0.00
10,300.0	90.48	180.22	6,627.4	-3,480.6	839.4	3,538.6	0.00	0.00	0.00
10,400.0	90.48	180.22	6,626.5	-3,580.6	839.0	3,638.2	0.00	0.00	0.00
10,500.0	90.48	180.22	6,625.7	-3,680.5	838.6	3,737.8	0.00	0.00	0.00
10,600.0	90.48	180.22	6,624.9	-3,780.5	838.2	3,837.5	0.00	0.00	0.00
10,700.0	90.48	180.22	6,624.0	-3,880.5	837.9	3,937.1	0.00	0.00	0.00
10,800.0	90.48	180.22	6,623.2	-3,980.5	837.5	4,036.7	0.00	0.00	0.00
10,900.0	90.48	180.22	6,622.3	-4,080.5	837.1	4,136.3	0.00	0.00	0.00
11,000.0	90.48	180.22	6,621.5	-4,180.5	836.7	4,235.9	0.00	0.00	0.00
11,100.0	90.48	180.22	6,620.6	-4,280.5	836.3	4,335.5	0.00	0.00	0.00
11,200.0	90.48	180.22	6,619.8	-4,380.5	835.9	4,435.1	0.00	0.00	0.00
11,300.0	90.48	180.22	6,619.0	-4,480.5	835.5	4,534.7	0.00	0.00	0.00
11,400.0	90.48	180.22	6,618.1	-4,580.5	835.1	4,634.3	0.00	0.00	0.00
11,500.0	90.48	180.22	6,617.3	-4,680.5	834.7	4,734.0	0.00	0.00	0.00
11,600.0	90.48	180.22	6,616.4	-4,780.5	834.4	4,833.6	0.00	0.00	0.00
11,700.0	90.48	180.22	6,615.6	-4,880.5	834.0	4,933.2	0.00	0.00	0.00
11,800.0	90.48	180.22	6,614.8	-4,980.5	833.6	5,032.8	0.00	0.00	0.00
11,900.0	90.48	180.22	6,613.9	-5,080.5	833.2	5,132.4	0.00	0.00	0.00
12,000.0	90.48	180.22	6,613.1	-5,180.5	832.8	5,232.0	0.00	0.00	0.00
12,100.0	90.48	180.22	6,612.2	-5,280.5	832.4	5,331.6	0.00	0.00	0.00
12,200.0	90.48	180.22	6,611.4	-5,380.5	832.0	5,431.2	0.00	0.00	0.00
12,300.0	90.48	180.22	6,610.5	-5,480.5	831.6	5,530.9	0.00	0.00	0.00
12,400.0	90.48	180.22	6,609.7	-5,580.5	831.2	5,630.5	0.00	0.00	0.00
12,500.0	90.48	180.22	6,608.9	-5,680.5	830.9	5,730.1	0.00	0.00	0.00
12,600.0	90.48	180.22	6,608.0	-5,780.5	830.5	5,829.7	0.00	0.00	0.00
12,700.0	90.48	180.22	6,607.2	-5,880.5	830.1	5,929.3	0.00	0.00	0.00
12,800.0	90.48	180.22	6,606.3	-5,980.4	829.7	6,028.9	0.00	0.00	0.00
12,900.0	90.48	180.22	6,605.5	-6,080.4	829.3	6,128.5	0.00	0.00	0.00
13,000.0	90.48	180.22	6,604.6	-6,180.4	828.9	6,228.1	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well WILL 6-62-15-0560CDH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4772.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4772.0ft (Original Well Elev)
Site:	Will 6-62-15_22 NENW Pad	North Reference:	True
Well:	WILL 6-62-15-0560CDH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	
13,100.0	90.48	180.22	6,603.8	-6,280.4	828.5	6,327.8	0.00	0.00	0.00	
13,200.0	90.48	180.22	6,603.0	-6,380.4	828.1	6,427.4	0.00	0.00	0.00	
13,300.0	90.48	180.22	6,602.1	-6,480.4	827.7	6,527.0	0.00	0.00	0.00	
13,400.0	90.48	180.22	6,601.3	-6,580.4	827.3	6,626.6	0.00	0.00	0.00	
13,500.0	90.48	180.22	6,600.4	-6,680.4	827.0	6,726.2	0.00	0.00	0.00	
13,600.0	90.48	180.22	6,599.6	-6,780.4	826.6	6,825.8	0.00	0.00	0.00	
13,700.0	90.48	180.22	6,598.8	-6,880.4	826.2	6,925.4	0.00	0.00	0.00	
13,800.0	90.48	180.22	6,597.9	-6,980.4	825.8	7,025.0	0.00	0.00	0.00	
13,900.0	90.48	180.22	6,597.1	-7,080.4	825.4	7,124.6	0.00	0.00	0.00	
14,000.0	90.48	180.22	6,596.2	-7,180.4	825.0	7,224.3	0.00	0.00	0.00	
14,100.0	90.48	180.22	6,595.4	-7,280.4	824.6	7,323.9	0.00	0.00	0.00	
14,200.0	90.48	180.22	6,594.5	-7,380.4	824.2	7,423.5	0.00	0.00	0.00	
14,300.0	90.48	180.22	6,593.7	-7,480.4	823.8	7,523.1	0.00	0.00	0.00	
14,400.0	90.48	180.22	6,592.9	-7,580.4	823.5	7,622.7	0.00	0.00	0.00	
14,500.0	90.48	180.22	6,592.0	-7,680.4	823.1	7,722.3	0.00	0.00	0.00	
14,600.0	90.48	180.22	6,591.2	-7,780.4	822.7	7,821.9	0.00	0.00	0.00	
14,700.0	90.48	180.22	6,590.3	-7,880.4	822.3	7,921.5	0.00	0.00	0.00	
14,800.0	90.48	180.22	6,589.5	-7,980.4	821.9	8,021.2	0.00	0.00	0.00	
14,900.0	90.48	180.22	6,588.7	-8,080.4	821.5	8,120.8	0.00	0.00	0.00	
15,000.0	90.48	180.22	6,587.8	-8,180.4	821.1	8,220.4	0.00	0.00	0.00	
15,100.0	90.48	180.22	6,587.0	-8,280.3	820.7	8,320.0	0.00	0.00	0.00	
15,200.0	90.48	180.22	6,586.1	-8,380.3	820.3	8,419.6	0.00	0.00	0.00	
15,300.0	90.48	180.22	6,585.3	-8,480.3	819.9	8,519.2	0.00	0.00	0.00	
15,400.0	90.48	180.22	6,584.4	-8,580.3	819.6	8,618.8	0.00	0.00	0.00	
15,500.0	90.48	180.22	6,583.6	-8,680.3	819.2	8,718.4	0.00	0.00	0.00	
15,600.0	90.48	180.22	6,582.8	-8,780.3	818.8	8,818.1	0.00	0.00	0.00	
15,700.0	90.48	180.22	6,581.9	-8,880.3	818.4	8,917.7	0.00	0.00	0.00	
15,800.0	90.48	180.22	6,581.1	-8,980.3	818.0	9,017.3	0.00	0.00	0.00	
15,900.0	90.48	180.22	6,580.2	-9,080.3	817.6	9,116.9	0.00	0.00	0.00	
16,000.0	90.48	180.22	6,579.4	-9,180.3	817.2	9,216.5	0.00	0.00	0.00	
16,100.0	90.48	180.22	6,578.5	-9,280.3	816.8	9,316.1	0.00	0.00	0.00	
16,200.0	90.48	180.22	6,577.7	-9,380.3	816.4	9,415.7	0.00	0.00	0.00	
16,300.0	90.48	180.22	6,576.9	-9,480.3	816.1	9,515.3	0.00	0.00	0.00	
16,400.0	90.48	180.22	6,576.0	-9,580.3	815.7	9,614.9	0.00	0.00	0.00	
16,500.0	90.48	180.22	6,575.2	-9,680.3	815.3	9,714.6	0.00	0.00	0.00	
16,521.5	90.48	180.22	6,575.0	-9,701.8	815.2	9,735.9	0.00	0.00	0.00	
W 15-0560CDH2 PBHL										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,939.9	6,649.0	7" Csg	7	8-3/4	

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well WILL 6-62-15-0560CDH2
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4772.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB @ 4772.0ft (Original Well Elev)
Site:	Will 6-62-15_22 NENW Pad	North Reference:	True
Well:	WILL 6-62-15-0560CDH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
272.0	272.0	FOX HILLS BASE		-0.48	180.22
4,373.7	4,310.0	SUSSEX		-0.48	180.22
5,068.5	4,990.0	SHANNON		-0.48	180.22
6,340.7	6,250.0	SHARON SPRINGS		-0.48	180.22
6,436.8	6,343.0	NIOBRARA		-0.48	180.22
6,474.7	6,378.0	A CHALK		-0.48	180.22
6,576.0	6,465.0	B CHALK		-0.48	180.22
6,675.6	6,538.0	C CHALK		-0.48	180.22
6,739.8	6,577.0	C MARL		-0.48	180.22
6,842.0	6,624.0	FT HAYS		-0.48	180.22
6,934.0	6,649.0	TOP CDLL TARGET		-0.48	180.22
	6,659.0	BASE CDLL TARGET		-0.48	180.22