BILL BARRETT CORP

WELD COUNTY, COLORADO
COFFELT 5-61-35_36 NWNW PAD
COFFELT 5-61-35-0108BH2

Wellbore #1

Plan: Design #1

Standard Planning Report

08 September, 2014

Bill Barrett Corporation

COMPANY DETAILS: BILL BARRETT CORP

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 COFFELT 5-61-35-0108BH2, True North
Vertical (TVD) Reference: KB @ 4515.0ft (Original Well Elev)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: KB @ 4515.0ft (Original Well Elev)
Calculation Method: Minimum Curvature

WELL DETAILS: COFFELT 5-61-35-0108BH2

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1377730.20	3366590.51	40° 21' 46.102 N	104° 11' 3.908 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	1250.5	5.01	305.52	1250.1	6.4	-8.9	2.00	305.52	-8.7	
4	4902.7	5.01	305.52	4888.4	191.7	-268.4	0.00	0.00	-263.5	
5	5153.1	0.00	89.72	5138.5	198.0	-277.4	2.00	180.00	-272.3	
6	5403.1	0.00	89.72	5388.5	198.0	-277.4	0.00	89.72	-272.3	
7	6153.4	90.03	89.72	5866.0	200.4	200.4	12.00	89.72	205.3	C 35-0108BH2 LP
8	15773.4	90.03	89.72	5861.0	247.9	9820.3	0.00	0.00	9823.4	C 35-0108BH2 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

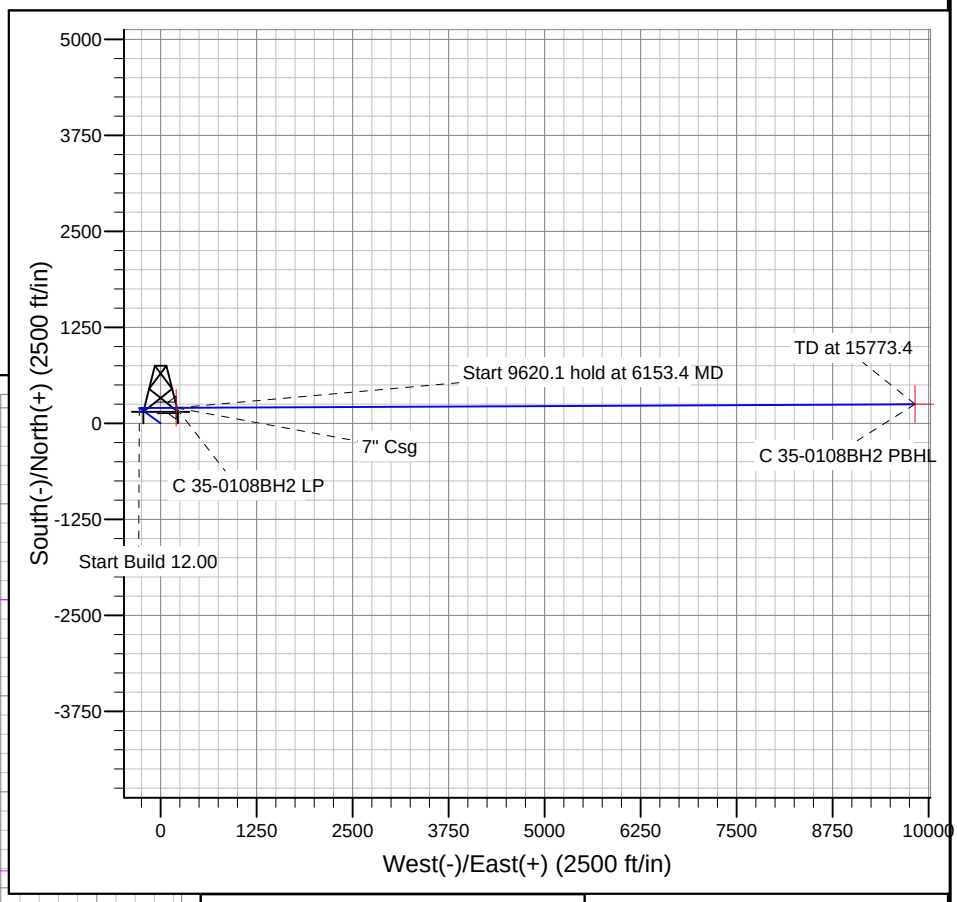
TVDPath	MDPath	Formation
		BASE B2 TARGET
0.0	0.0	FOX HILLS BASE
4237.0	4248.8	SHANNON
5627.0	5652.8	SHARON SPRINGS
5728.0	5780.7	NIOBRARA
5772.0	5848.4	A CHALK
5781.0	5863.8	A MARL
5839.0	5991.8	TOP B2 TARGET

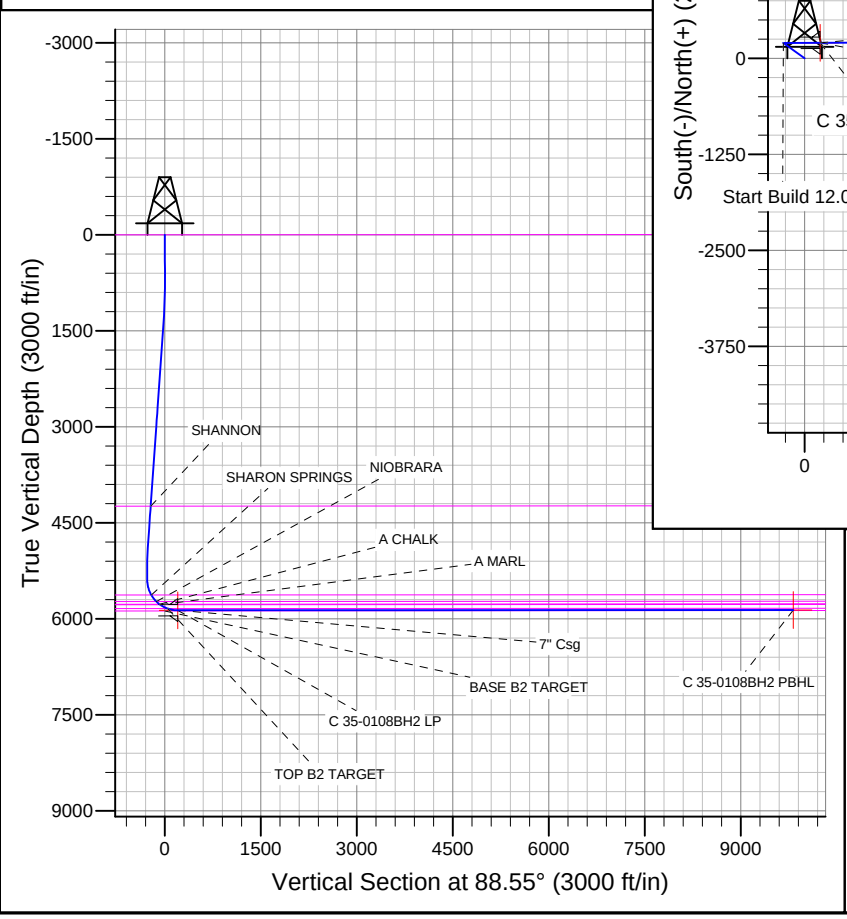
WELLBORE TARGET DETAILS

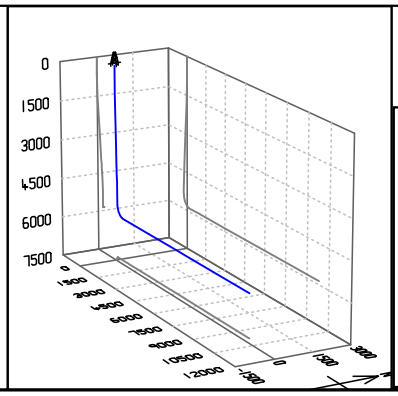
Name	TVD	+N/-S	+E/-W	Shape
C 35-0108BH2 PBHL	5861.0	247.9	9820.3	Point
C 35-0108BH2 LP	5866.0	200.4	200.4	Point

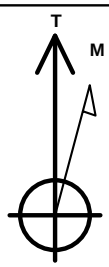
CASING DETAILS

TVD	MD	Name	Size
5866.0	6153.4	7" Csg	7









Azimuths to True North
Magnetic North: 8.11°

Magnetic Field
Strength: 52833.4snT
Dip Angle: 67.00°
Date: 9/8/2014
Model: IGRF2010

Bill Barrett Corp
Planning Report

Database:	Compass	**Local Co-ordinate Reference:**	Well COFFELT 5-61-35-0108BH2
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	**MD Reference:**	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	**North Reference:**	True
Well:	COFFELT 5-61-35-0108BH2	**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 COFFELT 5-61-35_36 NWNW PAD

Site Position:		**Northing:**	1,377,730.21 ft	**Latitude:**	40° 21' 46.102 N
From:	Lat/Long	**Easting:**	3,366,590.51 ft	**Longitude:**	104° 11' 3.908 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.85 °

Well COFFELT 5-61-35-0108BH2

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,377,730.20 ft	**Latitude:**	40° 21' 46.102 N
	+E/-W	0.0 ft	**Easting:**	3,366,590.51 ft	**Longitude:**	104° 11' 3.908 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,499.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/8/2014	8.11	67.00	52,833

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	88.55

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	
1,250.5	5.01	305.52	1,250.1	6.4	-8.9	2.00	2.00	0.00	305.52	
4,902.7	5.01	305.52	4,888.4	191.7	-268.4	0.00	0.00	0.00	0.00	
5,153.1	0.00	89.72	5,138.5	198.0	-277.4	2.00	-2.00	0.00	180.00	
5,403.1	0.00	89.72	5,388.5	198.0	-277.4	0.00	0.00	0.00	89.72	
6,153.4	90.03	89.72	5,866.0	200.4	200.4	12.00	12.00	0.00	89.72	C 35-0108BH2 LP
15,773.4	90.03	89.72	5,861.0	247.9	9,820.3	0.00	0.00	0.00	0.00	C 35-0108BH2 PBH

Database:	Compass	**Local Co-ordinate Reference:**	Well COFFELT 5-61-35-0108BH2
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	**MD Reference:**	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	**North Reference:**	True
Well:	COFFELT 5-61-35-0108BH2	**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
FOX HILLS BASE									
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	2.00	305.52	1,100.0	1.0	-1.4	-1.4	2.00	2.00	0.00
1,200.0	4.00	305.52	1,199.8	4.1	-5.7	-5.6	2.00	2.00	0.00
1,250.5	5.01	305.52	1,250.1	6.4	-8.9	-8.7	2.00	2.00	0.00
1,300.0	5.01	305.52	1,299.5	8.9	-12.4	-12.2	0.00	0.00	0.00
1,400.0	5.01	305.52	1,399.1	13.9	-19.5	-19.2	0.00	0.00	0.00
1,500.0	5.01	305.52	1,498.7	19.0	-26.6	-26.1	0.00	0.00	0.00
1,600.0	5.01	305.52	1,598.3	24.1	-33.7	-33.1	0.00	0.00	0.00
1,700.0	5.01	305.52	1,698.0	29.2	-40.9	-40.1	0.00	0.00	0.00
1,800.0	5.01	305.52	1,797.6	34.2	-48.0	-47.1	0.00	0.00	0.00
1,900.0	5.01	305.52	1,897.2	39.3	-55.1	-54.1	0.00	0.00	0.00
2,000.0	5.01	305.52	1,996.8	44.4	-62.2	-61.0	0.00	0.00	0.00
2,100.0	5.01	305.52	2,096.4	49.5	-69.3	-68.0	0.00	0.00	0.00
2,200.0	5.01	305.52	2,196.1	54.5	-76.4	-75.0	0.00	0.00	0.00
2,300.0	5.01	305.52	2,295.7	59.6	-83.5	-82.0	0.00	0.00	0.00
2,400.0	5.01	305.52	2,395.3	64.7	-90.6	-88.9	0.00	0.00	0.00
2,500.0	5.01	305.52	2,494.9	69.8	-97.7	-95.9	0.00	0.00	0.00
2,600.0	5.01	305.52	2,594.5	74.8	-104.8	-102.9	0.00	0.00	0.00
2,700.0	5.01	305.52	2,694.1	79.9	-111.9	-109.9	0.00	0.00	0.00
2,800.0	5.01	305.52	2,793.8	85.0	-119.0	-116.8	0.00	0.00	0.00
2,900.0	5.01	305.52	2,893.4	90.0	-126.1	-123.8	0.00	0.00	0.00
3,000.0	5.01	305.52	2,993.0	95.1	-133.2	-130.8	0.00	0.00	0.00
3,100.0	5.01	305.52	3,092.6	100.2	-140.3	-137.8	0.00	0.00	0.00
3,200.0	5.01	305.52	3,192.2	105.3	-147.4	-144.7	0.00	0.00	0.00
3,300.0	5.01	305.52	3,291.9	110.3	-154.6	-151.7	0.00	0.00	0.00
3,400.0	5.01	305.52	3,391.5	115.4	-161.7	-158.7	0.00	0.00	0.00
3,500.0	5.01	305.52	3,491.1	120.5	-168.8	-165.7	0.00	0.00	0.00
3,600.0	5.01	305.52	3,590.7	125.6	-175.9	-172.6	0.00	0.00	0.00
3,700.0	5.01	305.52	3,690.3	130.6	-183.0	-179.6	0.00	0.00	0.00
3,800.0	5.01	305.52	3,789.9	135.7	-190.1	-186.6	0.00	0.00	0.00
3,900.0	5.01	305.52	3,889.6	140.8	-197.2	-193.6	0.00	0.00	0.00
4,000.0	5.01	305.52	3,989.2	145.9	-204.3	-200.6	0.00	0.00	0.00
4,100.0	5.01	305.52	4,088.8	150.9	-211.4	-207.5	0.00	0.00	0.00
4,200.0	5.01	305.52	4,188.4	156.0	-218.5	-214.5	0.00	0.00	0.00
4,248.8	5.01	305.52	4,237.0	158.5	-222.0	-217.9	0.00	0.00	0.00
SHANNON									
4,300.0	5.01	305.52	4,288.0	161.1	-225.6	-221.5	0.00	0.00	0.00
4,400.0	5.01	305.52	4,387.7	166.1	-232.7	-228.5	0.00	0.00	0.00
4,500.0	5.01	305.52	4,487.3	171.2	-239.8	-235.4	0.00	0.00	0.00
4,600.0	5.01	305.52	4,586.9	176.3	-246.9	-242.4	0.00	0.00	0.00
4,700.0	5.01	305.52	4,686.5	181.4	-254.0	-249.4	0.00	0.00	0.00
4,800.0	5.01	305.52	4,786.1	186.4	-261.2	-256.4	0.00	0.00	0.00
4,900.0	5.01	305.52	4,885.7	191.5	-268.3	-263.3	0.00	0.00	0.00

Database:	Compass	**Local Co-ordinate Reference:**	Well COFFELT 5-61-35-0108BH2
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	**MD Reference:**	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	**North Reference:**	True
Well:	COFFELT 5-61-35-0108BH2	**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)
4,902.7	5.01	305.52	4,888.4	191.7	-268.4	-263.5	0.00	0.00	0.00
5,000.0	3.06	305.52	4,985.5	195.6	-274.0	-269.0	2.00	-2.00	0.00
5,100.0	1.06	305.52	5,085.4	197.7	-276.9	-271.9	2.00	-2.00	0.00
5,153.1	0.00	89.72	5,138.5	198.0	-277.4	-272.3	2.00	-2.00	0.00
5,200.0	0.00	89.72	5,185.4	198.0	-277.4	-272.3	0.00	0.00	0.00
5,300.0	0.00	89.72	5,285.4	198.0	-277.4	-272.3	0.00	0.00	0.00
5,400.0	0.00	89.72	5,385.4	198.0	-277.4	-272.3	0.00	0.00	0.00
5,403.1	0.00	89.72	5,388.5	198.0	-277.4	-272.3	0.00	0.00	0.00
5,500.0	11.63	89.72	5,484.7	198.1	-267.6	-262.5	12.00	12.00	0.00
5,600.0	23.63	89.72	5,579.9	198.2	-237.3	-232.3	12.00	12.00	0.00
5,652.8	29.96	89.72	5,627.0	198.3	-213.5	-208.5	12.00	12.00	0.00
SHARON SPRINGS									
5,700.0	35.63	89.72	5,666.7	198.4	-188.0	-182.9	12.00	12.00	0.00
5,780.7	45.31	89.72	5,728.0	198.7	-135.6	-130.6	12.00	12.00	0.00
NIOBRARA									
5,800.0	47.63	89.72	5,741.3	198.8	-121.7	-116.6	12.00	12.00	0.00
5,848.4	53.43	89.72	5,772.0	199.0	-84.4	-79.3	12.00	12.00	0.00
A CHALK									
5,863.8	55.28	89.72	5,781.0	199.0	-71.8	-66.8	12.00	12.00	0.00
A MARL									
5,900.0	59.63	89.72	5,800.5	199.2	-41.3	-36.3	12.00	12.00	0.00
5,991.8	70.64	89.72	5,839.0	199.6	41.8	46.8	12.00	12.00	0.00
TOP B2 TARGET									
6,000.0	71.63	89.72	5,841.7	199.6	49.6	54.6	12.00	12.00	0.00
6,100.0	83.63	89.72	5,863.0	200.1	147.1	152.1	12.00	12.00	0.00
6,153.4	90.03	89.72	5,866.0	200.4	200.4	205.3	11.99	11.99	0.00
7" Csg - C 35-0108BH2 LP									
6,200.0	90.03	89.72	5,866.0	200.6	247.0	252.0	0.01	0.01	0.00
6,300.0	90.03	89.72	5,865.9	201.1	347.0	351.9	0.00	0.00	0.00
6,400.0	90.03	89.72	5,865.9	201.6	447.0	451.9	0.00	0.00	0.00
6,500.0	90.03	89.72	5,865.8	202.1	547.0	551.9	0.00	0.00	0.00
6,600.0	90.03	89.72	5,865.8	202.6	647.0	651.9	0.00	0.00	0.00
6,700.0	90.03	89.72	5,865.7	203.1	747.0	751.9	0.00	0.00	0.00
6,800.0	90.03	89.72	5,865.7	203.6	847.0	851.8	0.00	0.00	0.00
6,900.0	90.03	89.72	5,865.6	204.1	947.0	951.8	0.00	0.00	0.00
7,000.0	90.03	89.72	5,865.6	204.5	1,047.0	1,051.8	0.00	0.00	0.00
7,100.0	90.03	89.72	5,865.5	205.0	1,147.0	1,151.8	0.00	0.00	0.00
7,200.0	90.03	89.72	5,865.5	205.5	1,247.0	1,251.8	0.00	0.00	0.00
7,300.0	90.03	89.72	5,865.4	206.0	1,347.0	1,351.7	0.00	0.00	0.00
7,400.0	90.03	89.72	5,865.4	206.5	1,447.0	1,451.7	0.00	0.00	0.00
7,500.0	90.03	89.72	5,865.3	207.0	1,547.0	1,551.7	0.00	0.00	0.00
7,600.0	90.03	89.72	5,865.2	207.5	1,647.0	1,651.7	0.00	0.00	0.00
7,700.0	90.03	89.72	5,865.2	208.0	1,747.0	1,751.7	0.00	0.00	0.00
7,800.0	90.03	89.72	5,865.1	208.5	1,847.0	1,851.6	0.00	0.00	0.00
7,900.0	90.03	89.72	5,865.1	209.0	1,947.0	1,951.6	0.00	0.00	0.00
8,000.0	90.03	89.72	5,865.0	209.5	2,047.0	2,051.6	0.00	0.00	0.00
8,100.0	90.03	89.72	5,865.0	210.0	2,147.0	2,151.6	0.00	0.00	0.00
8,200.0	90.03	89.72	5,864.9	210.5	2,247.0	2,251.6	0.00	0.00	0.00
8,300.0	90.03	89.72	5,864.9	211.0	2,347.0	2,351.5	0.00	0.00	0.00
8,400.0	90.03	89.72	5,864.8	211.5	2,447.0	2,451.5	0.00	0.00	0.00
8,500.0	90.03	89.72	5,864.8	212.0	2,547.0	2,551.5	0.00	0.00	0.00
8,600.0	90.03	89.72	5,864.7	212.4	2,647.0	2,651.5	0.00	0.00	0.00
8,700.0	90.03	89.72	5,864.7	212.9	2,747.0	2,751.5	0.00	0.00	0.00

Database:	Compass	**Local Co-ordinate Reference:**	Well COFFELT 5-61-35-0108BH2
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	**MD Reference:**	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	**North Reference:**	True
Well:	COFFELT 5-61-35-0108BH2	**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)
8,800.0	90.03	89.72	5,864.6	213.4	2,847.0	2,851.4	0.00	0.00	0.00
8,900.0	90.03	89.72	5,864.6	213.9	2,947.0	2,951.4	0.00	0.00	0.00
9,000.0	90.03	89.72	5,864.5	214.4	3,047.0	3,051.4	0.00	0.00	0.00
9,100.0	90.03	89.72	5,864.5	214.9	3,147.0	3,151.4	0.00	0.00	0.00
9,200.0	90.03	89.72	5,864.4	215.4	3,246.9	3,251.4	0.00	0.00	0.00
9,300.0	90.03	89.72	5,864.4	215.9	3,346.9	3,351.3	0.00	0.00	0.00
9,400.0	90.03	89.72	5,864.3	216.4	3,446.9	3,451.3	0.00	0.00	0.00
9,500.0	90.03	89.72	5,864.3	216.9	3,546.9	3,551.3	0.00	0.00	0.00
9,600.0	90.03	89.72	5,864.2	217.4	3,646.9	3,651.3	0.00	0.00	0.00
9,700.0	90.03	89.72	5,864.2	217.9	3,746.9	3,751.2	0.00	0.00	0.00
9,800.0	90.03	89.72	5,864.1	218.4	3,846.9	3,851.2	0.00	0.00	0.00
9,900.0	90.03	89.72	5,864.1	218.9	3,946.9	3,951.2	0.00	0.00	0.00
10,000.0	90.03	89.72	5,864.0	219.4	4,046.9	4,051.2	0.00	0.00	0.00
10,100.0	90.03	89.72	5,863.9	219.8	4,146.9	4,151.2	0.00	0.00	0.00
10,200.0	90.03	89.72	5,863.9	220.3	4,246.9	4,251.1	0.00	0.00	0.00
10,300.0	90.03	89.72	5,863.8	220.8	4,346.9	4,351.1	0.00	0.00	0.00
10,400.0	90.03	89.72	5,863.8	221.3	4,446.9	4,451.1	0.00	0.00	0.00
10,500.0	90.03	89.72	5,863.7	221.8	4,546.9	4,551.1	0.00	0.00	0.00
10,600.0	90.03	89.72	5,863.7	222.3	4,646.9	4,651.1	0.00	0.00	0.00
10,700.0	90.03	89.72	5,863.6	222.8	4,746.9	4,751.0	0.00	0.00	0.00
10,800.0	90.03	89.72	5,863.6	223.3	4,846.9	4,851.0	0.00	0.00	0.00
10,900.0	90.03	89.72	5,863.5	223.8	4,946.9	4,951.0	0.00	0.00	0.00
11,000.0	90.03	89.72	5,863.5	224.3	5,046.9	5,051.0	0.00	0.00	0.00
11,100.0	90.03	89.72	5,863.4	224.8	5,146.9	5,151.0	0.00	0.00	0.00
11,200.0	90.03	89.72	5,863.4	225.3	5,246.9	5,250.9	0.00	0.00	0.00
11,300.0	90.03	89.72	5,863.3	225.8	5,346.9	5,350.9	0.00	0.00	0.00
11,400.0	90.03	89.72	5,863.3	226.3	5,446.9	5,450.9	0.00	0.00	0.00
11,500.0	90.03	89.72	5,863.2	226.8	5,546.9	5,550.9	0.00	0.00	0.00
11,600.0	90.03	89.72	5,863.2	227.3	5,646.9	5,650.9	0.00	0.00	0.00
11,700.0	90.03	89.72	5,863.1	227.7	5,746.9	5,750.8	0.00	0.00	0.00
11,800.0	90.03	89.72	5,863.1	228.2	5,846.9	5,850.8	0.00	0.00	0.00
11,900.0	90.03	89.72	5,863.0	228.7	5,946.9	5,950.8	0.00	0.00	0.00
12,000.0	90.03	89.72	5,863.0	229.2	6,046.9	6,050.8	0.00	0.00	0.00
12,100.0	90.03	89.72	5,862.9	229.7	6,146.9	6,150.8	0.00	0.00	0.00
12,200.0	90.03	89.72	5,862.9	230.2	6,246.9	6,250.7	0.00	0.00	0.00
12,300.0	90.03	89.72	5,862.8	230.7	6,346.9	6,350.7	0.00	0.00	0.00
12,400.0	90.03	89.72	5,862.8	231.2	6,446.9	6,450.7	0.00	0.00	0.00
12,500.0	90.03	89.72	5,862.7	231.7	6,546.9	6,550.7	0.00	0.00	0.00
12,600.0	90.03	89.72	5,862.6	232.2	6,646.9	6,650.6	0.00	0.00	0.00
12,700.0	90.03	89.72	5,862.6	232.7	6,746.9	6,750.6	0.00	0.00	0.00
12,800.0	90.03	89.72	5,862.5	233.2	6,846.9	6,850.6	0.00	0.00	0.00
12,900.0	90.03	89.72	5,862.5	233.7	6,946.9	6,950.6	0.00	0.00	0.00
13,000.0	90.03	89.72	5,862.4	234.2	7,046.9	7,050.6	0.00	0.00	0.00
13,100.0	90.03	89.72	5,862.4	234.7	7,146.9	7,150.5	0.00	0.00	0.00
13,200.0	90.03	89.72	5,862.3	235.2	7,246.9	7,250.5	0.00	0.00	0.00
13,300.0	90.03	89.72	5,862.3	235.6	7,346.9	7,350.5	0.00	0.00	0.00
13,400.0	90.03	89.72	5,862.2	236.1	7,446.9	7,450.5	0.00	0.00	0.00
13,500.0	90.03	89.72	5,862.2	236.6	7,546.9	7,550.5	0.00	0.00	0.00
13,600.0	90.03	89.72	5,862.1	237.1	7,646.9	7,650.4	0.00	0.00	0.00
13,700.0	90.03	89.72	5,862.1	237.6	7,746.9	7,750.4	0.00	0.00	0.00
13,800.0	90.03	89.72	5,862.0	238.1	7,846.9	7,850.4	0.00	0.00	0.00
13,900.0	90.03	89.72	5,862.0	238.6	7,946.9	7,950.4	0.00	0.00	0.00
14,000.0	90.03	89.72	5,861.9	239.1	8,046.9	8,050.4	0.00	0.00	0.00
14,100.0	90.03	89.72	5,861.9	239.6	8,146.9	8,150.3	0.00	0.00	0.00

Database:	Compass	**Local Co-ordinate Reference:**	Well COFFELT 5-61-35-0108BH2
Company:	BILL BARRETT CORP	**TVD Reference:**	KB @ 4515.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	**MD Reference:**	KB @ 4515.0ft (Original Well Elev)
Site:	COFFELT 5-61-35_36 NWNW PAD	**North Reference:**	True
Well:	COFFELT 5-61-35-0108BH2	**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)
14,200.0	90.03	89.72	5,861.8	240.1	8,246.9	8,250.3	0.00	0.00	0.00
14,300.0	90.03	89.72	5,861.8	240.6	8,346.9	8,350.3	0.00	0.00	0.00
14,400.0	90.03	89.72	5,861.7	241.1	8,446.9	8,450.3	0.00	0.00	0.00
14,500.0	90.03	89.72	5,861.7	241.6	8,546.9	8,550.3	0.00	0.00	0.00
14,600.0	90.03	89.72	5,861.6	242.1	8,646.9	8,650.2	0.00	0.00	0.00
14,700.0	90.03	89.72	5,861.6	242.6	8,746.9	8,750.2	0.00	0.00	0.00
14,800.0	90.03	89.72	5,861.5	243.0	8,846.9	8,850.2	0.00	0.00	0.00
14,900.0	90.03	89.72	5,861.5	243.5	8,946.9	8,950.2	0.00	0.00	0.00
15,000.0	90.03	89.72	5,861.4	244.0	9,046.9	9,050.2	0.00	0.00	0.00
15,100.0	90.03	89.72	5,861.4	244.5	9,146.9	9,150.1	0.00	0.00	0.00
15,200.0	90.03	89.72	5,861.3	245.0	9,246.9	9,250.1	0.00	0.00	0.00
15,300.0	90.03	89.72	5,861.2	245.5	9,346.9	9,350.1	0.00	0.00	0.00
15,400.0	90.03	89.72	5,861.2	246.0	9,446.9	9,450.1	0.00	0.00	0.00
15,500.0	90.03	89.72	5,861.1	246.5	9,546.9	9,550.1	0.00	0.00	0.00
15,600.0	90.03	89.72	5,861.1	247.0	9,646.9	9,650.0	0.00	0.00	0.00
15,700.0	90.03	89.72	5,861.0	247.5	9,746.9	9,750.0	0.00	0.00	0.00
15,773.4	90.03	89.72	5,861.0	247.9	9,820.3	9,823.4	0.00	0.00	0.00
C 35-0108BH2 PBHL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,153.4	5,866.0	7" Csg	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.0	0.0	FOX HILLS BASE		-0.03	89.72
4,248.8	4,237.0	SHANNON		-0.03	89.72
5,652.8	5,627.0	SHARON SPRINGS		-0.03	89.72
5,780.7	5,728.0	NIOBRARA		-0.03	89.72
5,848.4	5,772.0	A CHALK		-0.03	89.72
5,863.8	5,781.0	A MARL		-0.03	89.72
5,991.8	5,839.0	TOP B2 TARGET		-0.03	89.72
	5,876.0	BASE B2 TARGET		-0.03	89.72