

Well Planning Proposal FOR

Bill Barrett Corp.
70 Ranch 5-63-22-58H
Weld Co., CO

Well File: Design #1 (1/30/12)

Presented By:

Pat Rasmussen
Regional Manager

Bret Wolford
Well Planner



Sharewell
Energy Services, LP



Bill Barrett Corp.
Project: Weld Co., CO
Site: Sec.22-T5N-R63W
Well: 70 Ranch 5-63-22-58H
Wellbore: Wellbore #1
Design: Design #1
Lat: 40° 23' 29.004 N
Long: 104° 24' 54.396 W
Pad GL: 4637.00
KB: WELL @ 4655.00usft



WELL DETAILS: 70 Ranch 5-63-22-58H

+N/-S	+E/-W	Northing	Ground Level: Easting	4637.00 Latitude	Longitude	Slot
0.00	0.00	1387272.348	3302183.937	40° 23' 29.004 N	104° 24' 54.396 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
70 Ranch 5-63-22-58H PBHL	6466.00	-4445.71	142.98	40° 23' 25.546 N	104° 24' 54.132 W	Point
LP	6466.00	-349.91	20.46	40° 23' 25.546 N	104° 24' 54.132 W	Point

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	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00°
1300.00	6.00	0.86	1299.45	15.69	0.23	2.00	0.86	-15.68	Start 1831.36° hold at 1300.00 MD
3131.36	6.00	0.86	3120.78	207.10	3.09	0.00	0.00	-206.89	Start Drop -2.00°
3431.36	0.00	0.00	3420.23	222.79	3.33	2.00	180.00	-222.57	Start 2472.81° hold at 3431.36 MD
5904.17	0.00	0.00	5893.04	222.79	3.33	0.00	0.00	-222.57	KOP / Start Build 10.00°
6804.17	90.00	178.29	6466.00	-349.91	20.46	10.00	178.29	350.39	EOC / Start 4097.63° hold at 6804.17 MD
10901.80	90.00	178.29	6466.00	-4445.71	142.98	0.00	0.00	4448.01	TD at 10901.80

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
355.00	355.00	Pierre
4154.00	4165.13	Terry/Sussex
4719.00	4730.13	Shannon
6190.00	6216.35	Sharon Springs
6349.00	6431.48	Niobrara
6441.00	6634.30	Top B2 Tgt

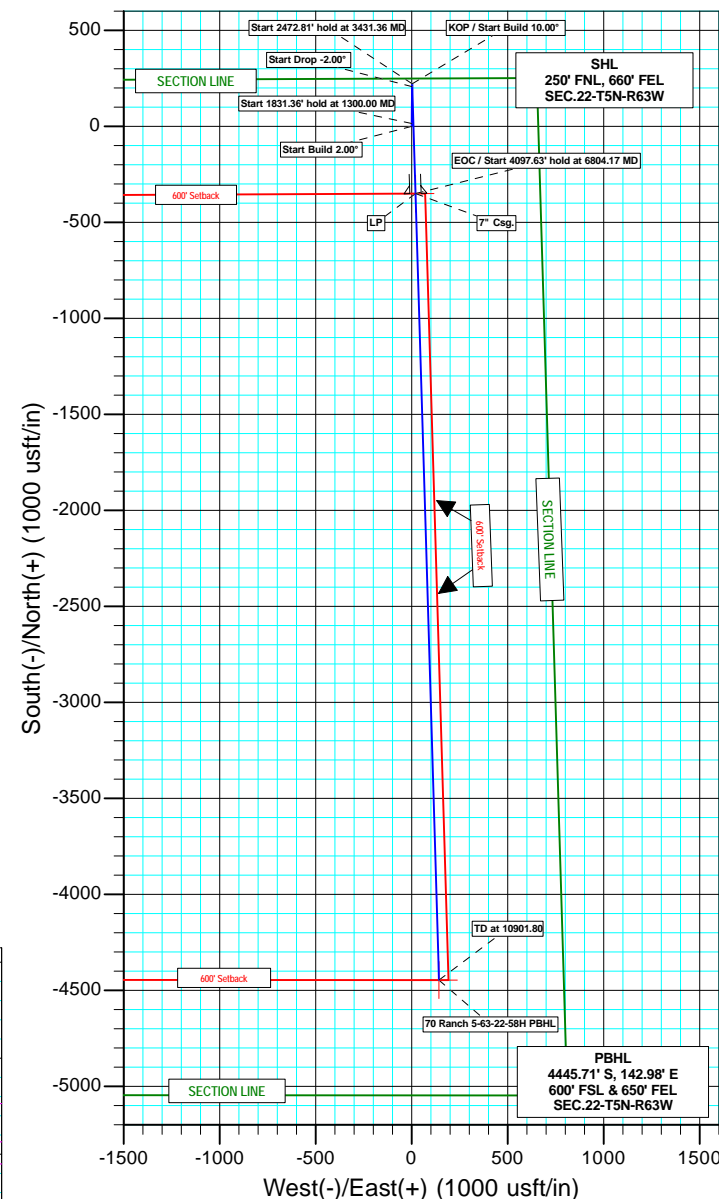
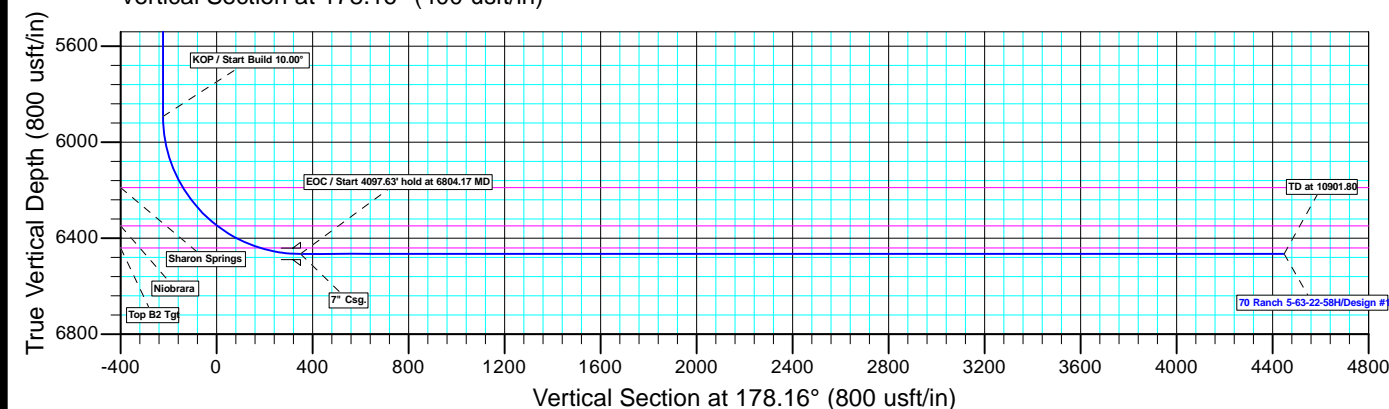
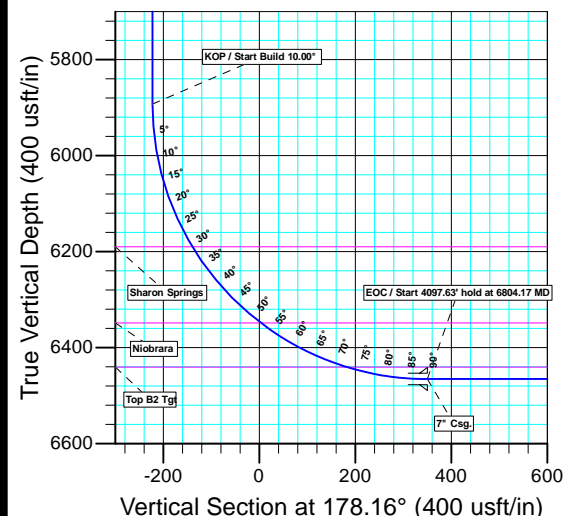
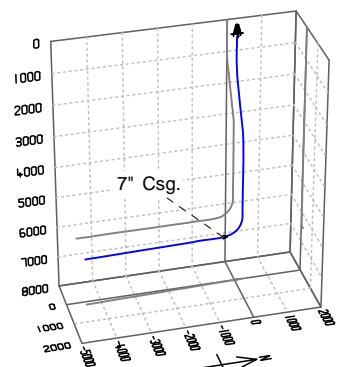
PROJECT DETAILS: Weld Co., CO

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



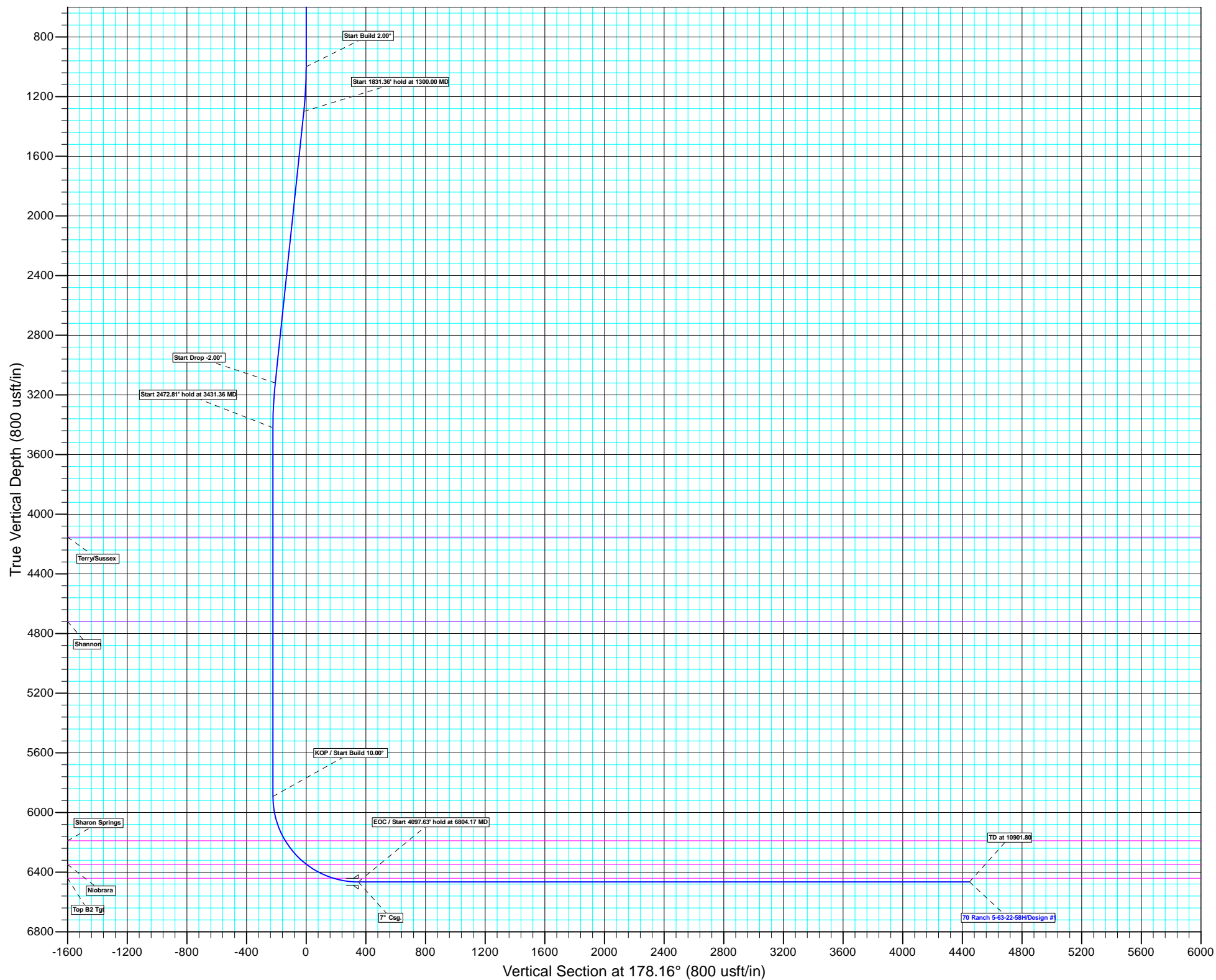
Azimuths to True North
Magnetic North: 8.59°

Magnetic Field
Strength: 53099.5snT
Dip Angle: 67.08°
Date: 2012/01/30
Model: IGRF2010



Plan: Design #1 (70 Ranch 5-63-22-58H/Wellbore #1)

Created By: Bret Wolford Date: 15:48, January 30 2012





Bill Barrett Corporation

Bill Barrett Corp.

Weld Co., CO

Sec.22-T5N-R63W

70 Ranch 5-63-22-58H

Wellbore #1

Plan: Design #1

Standard Planning Report

30 January, 2012



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 70 Ranch 5-63-22-58H
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4655.00usft
Project:	Weld Co., CO	MD Reference:	WELL @ 4655.00usft
Site:	Sec.22-T5N-R63W	North Reference:	True
Well:	70 Ranch 5-63-22-58H	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.22-T5N-R63W			
Site Position:		Northing:	1,387,272.352 usft	Latitude:	40° 23' 29.004 N
From:	Lat/Long	Easting:	3,302,183.936 usft	Longitude:	104° 24' 54.396 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.70 °

Well	70 Ranch 5-63-22-58H					
Well Position	+N/-S	0.00 usft	Northing:	1,387,272.348 usft	Latitude:	40° 23' 29.004 N
	+E/-W	0.00 usft	Easting:	3,302,183.937 usft	Longitude:	104° 24' 54.396 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,637.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/30/12	8.59	67.08	53,099

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 (°)
	6,466.00	0.00	0.00	178.16

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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	6.00	0.86	1,299.45	15.69	0.23	2.00	2.00	0.00	0.86	
3,131.36	6.00	0.86	3,120.78	207.10	3.09	0.00	0.00	0.00	0.00	
3,431.36	0.00	0.00	3,420.23	222.79	3.33	2.00	-2.00	0.00	180.00	
5,904.17	0.00	0.00	5,893.04	222.79	3.33	0.00	0.00	0.00	0.00	
6,804.17	90.00	178.29	6,466.00	-349.91	20.46	10.00	10.00	0.00	178.29 LP	
10,901.80	90.00	178.29	6,466.00	-4,445.71	142.98	0.00	0.00	0.00	0.00	70 Ranch 5-63-22-58H

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Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4655.00usft
Project:	Weld Co., CO	MD Reference:	WELL @ 4655.00usft
Site:	Sec.22-T5N-R63W	North Reference:	True
Well:	70 Ranch 5-63-22-58H	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
Pierre									
355.00	0.00	0.00	355.00	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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00°									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	2.00	0.86	1,099.98	1.74	0.03	-1.74	2.00	2.00	0.00
1,200.00	4.00	0.86	1,199.84	6.98	0.10	-6.97	2.00	2.00	0.00
Start 1831.36° hold at 1300.00 MD									
1,300.00	6.00	0.86	1,299.45	15.69	0.23	-15.68	2.00	2.00	0.00
1,400.00	6.00	0.86	1,398.90	26.14	0.39	-26.12	0.00	0.00	0.00
1,500.00	6.00	0.86	1,498.36	36.60	0.55	-36.56	0.00	0.00	0.00
1,600.00	6.00	0.86	1,597.81	47.05	0.70	-47.00	0.00	0.00	0.00
1,700.00	6.00	0.86	1,697.26	57.50	0.86	-57.44	0.00	0.00	0.00
1,800.00	6.00	0.86	1,796.71	67.95	1.02	-67.88	0.00	0.00	0.00
1,900.00	6.00	0.86	1,896.17	78.40	1.17	-78.32	0.00	0.00	0.00
2,000.00	6.00	0.86	1,995.62	88.85	1.33	-88.77	0.00	0.00	0.00
2,100.00	6.00	0.86	2,095.07	99.31	1.48	-99.21	0.00	0.00	0.00
2,200.00	6.00	0.86	2,194.52	109.76	1.64	-109.65	0.00	0.00	0.00
2,300.00	6.00	0.86	2,293.97	120.21	1.80	-120.09	0.00	0.00	0.00
2,400.00	6.00	0.86	2,393.43	130.66	1.95	-130.53	0.00	0.00	0.00
2,500.00	6.00	0.86	2,492.88	141.11	2.11	-140.97	0.00	0.00	0.00
2,600.00	6.00	0.86	2,592.33	151.56	2.26	-151.41	0.00	0.00	0.00
2,700.00	6.00	0.86	2,691.78	162.02	2.42	-161.85	0.00	0.00	0.00
2,800.00	6.00	0.86	2,791.23	172.47	2.58	-172.30	0.00	0.00	0.00
2,900.00	6.00	0.86	2,890.69	182.92	2.73	-182.74	0.00	0.00	0.00
3,000.00	6.00	0.86	2,990.14	193.37	2.89	-193.18	0.00	0.00	0.00
3,100.00	6.00	0.86	3,089.59	203.82	3.04	-203.62	0.00	0.00	0.00
Start Drop -2.00°									
3,131.36	6.00	0.86	3,120.78	207.10	3.09	-206.89	0.00	0.00	0.00
3,200.00	4.63	0.86	3,189.12	213.46	3.19	-213.24	2.00	-2.00	0.00
3,300.00	2.63	0.86	3,288.92	219.78	3.28	-219.56	2.00	-2.00	0.00
3,400.00	0.63	0.86	3,388.87	222.62	3.33	-222.40	2.00	-2.00	0.00
Start 2472.81° hold at 3431.36 MD									
3,431.36	0.00	0.00	3,420.23	222.79	3.33	-222.57	2.00	-2.00	0.00
3,500.00	0.00	0.00	3,488.87	222.79	3.33	-222.57	0.00	0.00	0.00
3,600.00	0.00	0.00	3,588.87	222.79	3.33	-222.57	0.00	0.00	0.00
3,700.00	0.00	0.00	3,688.87	222.79	3.33	-222.57	0.00	0.00	0.00
3,800.00	0.00	0.00	3,788.87	222.79	3.33	-222.57	0.00	0.00	0.00
3,900.00	0.00	0.00	3,888.87	222.79	3.33	-222.57	0.00	0.00	0.00
4,000.00	0.00	0.00	3,988.87	222.79	3.33	-222.57	0.00	0.00	0.00
4,100.00	0.00	0.00	4,088.87	222.79	3.33	-222.57	0.00	0.00	0.00
Terry/Sussex									
4,165.13	0.00	0.00	4,154.00	222.79	3.33	-222.57	0.00	0.00	0.00
4,200.00	0.00	0.00	4,188.87	222.79	3.33	-222.57	0.00	0.00	0.00

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Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4655.00usft
Project:	Weld Co., CO	MD Reference:	WELL @ 4655.00usft
Site:	Sec.22-T5N-R63W	North Reference:	True
Well:	70 Ranch 5-63-22-58H	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)	
4,300.00	0.00	0.00	4,288.87	222.79	3.33	-222.57	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,388.87	222.79	3.33	-222.57	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,488.87	222.79	3.33	-222.57	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,588.87	222.79	3.33	-222.57	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,688.87	222.79	3.33	-222.57	0.00	0.00	0.00	
Shannon										
4,730.13	0.00	0.00	4,719.00	222.79	3.33	-222.57	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,788.87	222.79	3.33	-222.57	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,888.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,988.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,088.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,188.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,288.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,388.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,488.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,588.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,688.87	222.79	3.33	-222.57	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,788.87	222.79	3.33	-222.57	0.00	0.00	0.00	
KOP / Start Build 10.00°										
5,904.17	0.00	0.00	5,893.04	222.79	3.33	-222.57	0.00	0.00	0.00	
5,950.00	4.58	178.29	5,938.82	220.96	3.38	-220.74	10.00	10.00	0.00	
6,000.00	9.58	178.29	5,988.43	214.80	3.57	-214.57	10.00	10.00	0.00	
6,050.00	14.58	178.29	6,037.30	204.34	3.88	-204.11	10.00	10.00	0.00	
6,100.00	19.58	178.29	6,085.08	189.66	4.32	-189.43	10.00	10.00	0.00	
6,150.00	24.58	178.29	6,131.40	170.88	4.88	-170.64	10.00	10.00	0.00	
6,200.00	29.58	178.29	6,175.90	148.13	5.56	-147.88	10.00	10.00	0.00	
Sharon Springs										
6,216.35	31.22	178.29	6,190.00	139.87	5.81	-139.61	10.00	10.00	0.00	
6,250.00	34.58	178.29	6,218.25	121.60	6.36	-121.33	10.00	10.00	0.00	
6,300.00	39.58	178.29	6,258.13	91.47	7.26	-91.19	10.00	10.00	0.00	
6,350.00	44.58	178.29	6,295.22	57.99	8.26	-57.69	10.00	10.00	0.00	
6,400.00	49.58	178.29	6,329.26	21.40	9.35	-21.09	10.00	10.00	0.00	
Niobrara										
6,431.48	52.73	178.29	6,349.00	-3.11	10.09	3.43	10.00	10.00	0.00	
6,450.00	54.58	178.29	6,359.98	-18.02	10.53	18.35	10.00	10.00	0.00	
6,500.00	59.58	178.29	6,387.14	-59.96	11.79	60.31	10.00	10.00	0.00	
6,550.00	64.58	178.29	6,410.54	-104.11	13.11	104.47	10.00	10.00	0.00	
6,600.00	69.58	178.29	6,430.00	-150.12	14.48	150.51	10.00	10.00	0.00	
Top B2 Tgt										
6,634.30	73.01	178.29	6,441.00	-182.59	15.45	182.99	10.00	10.00	0.00	
6,650.00	74.58	178.29	6,445.38	-197.66	15.91	198.07	10.00	10.00	0.00	
6,700.00	79.58	178.29	6,456.55	-246.36	17.36	246.79	10.00	10.00	0.00	
6,750.00	84.58	178.29	6,463.44	-295.85	18.84	296.30	10.00	10.00	0.00	
EOC / Start 4097.63' hold at 6804.17 MD - 7" Csg. - LP										
6,804.17	90.00	178.29	6,466.00	-349.91	20.46	350.39	10.00	10.00	0.00	
6,900.00	90.00	178.29	6,466.00	-445.70	23.33	446.22	0.00	0.00	0.00	
7,000.00	90.00	178.29	6,466.00	-545.65	26.32	546.22	0.00	0.00	0.00	
7,100.00	90.00	178.29	6,466.00	-645.61	29.31	646.22	0.00	0.00	0.00	
7,200.00	90.00	178.29	6,466.00	-745.56	32.30	746.22	0.00	0.00	0.00	
7,300.00	90.00	178.29	6,466.00	-845.52	35.29	846.22	0.00	0.00	0.00	
7,400.00	90.00	178.29	6,466.00	-945.48	38.28	946.22	0.00	0.00	0.00	
7,500.00	90.00	178.29	6,466.00	-1,045.43	41.27	1,046.22	0.00	0.00	0.00	
7,600.00	90.00	178.29	6,466.00	-1,145.39	44.26	1,146.22	0.00	0.00	0.00	

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Site:	Sec.22-T5N-R63W	North Reference:	True
Well:	70 Ranch 5-63-22-58H	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)
7,700.00	90.00	178.29	6,466.00	-1,245.34	47.25	1,246.22	0.00	0.00	0.00
7,800.00	90.00	178.29	6,466.00	-1,345.30	50.24	1,346.22	0.00	0.00	0.00
7,900.00	90.00	178.29	6,466.00	-1,445.25	53.23	1,446.22	0.00	0.00	0.00
8,000.00	90.00	178.29	6,466.00	-1,545.21	56.22	1,546.22	0.00	0.00	0.00
8,100.00	90.00	178.29	6,466.00	-1,645.16	59.21	1,646.22	0.00	0.00	0.00
8,200.00	90.00	178.29	6,466.00	-1,745.12	62.20	1,746.21	0.00	0.00	0.00
8,300.00	90.00	178.29	6,466.00	-1,845.07	65.19	1,846.21	0.00	0.00	0.00
8,400.00	90.00	178.29	6,466.00	-1,945.03	68.18	1,946.21	0.00	0.00	0.00
8,500.00	90.00	178.29	6,466.00	-2,044.98	71.17	2,046.21	0.00	0.00	0.00
8,600.00	90.00	178.29	6,466.00	-2,144.94	74.16	2,146.21	0.00	0.00	0.00
8,700.00	90.00	178.29	6,466.00	-2,244.89	77.15	2,246.21	0.00	0.00	0.00
8,800.00	90.00	178.29	6,466.00	-2,344.85	80.14	2,346.21	0.00	0.00	0.00
8,900.00	90.00	178.29	6,466.00	-2,444.80	83.13	2,446.21	0.00	0.00	0.00
9,000.00	90.00	178.29	6,466.00	-2,544.76	86.12	2,546.21	0.00	0.00	0.00
9,100.00	90.00	178.29	6,466.00	-2,644.72	89.11	2,646.21	0.00	0.00	0.00
9,200.00	90.00	178.29	6,466.00	-2,744.67	92.10	2,746.21	0.00	0.00	0.00
9,300.00	90.00	178.29	6,466.00	-2,844.63	95.09	2,846.21	0.00	0.00	0.00
9,400.00	90.00	178.29	6,466.00	-2,944.58	98.08	2,946.21	0.00	0.00	0.00
9,500.00	90.00	178.29	6,466.00	-3,044.54	101.07	3,046.21	0.00	0.00	0.00
9,600.00	90.00	178.29	6,466.00	-3,144.49	104.06	3,146.21	0.00	0.00	0.00
9,700.00	90.00	178.29	6,466.00	-3,244.45	107.05	3,246.21	0.00	0.00	0.00
9,800.00	90.00	178.29	6,466.00	-3,344.40	110.04	3,346.21	0.00	0.00	0.00
9,900.00	90.00	178.29	6,466.00	-3,444.36	113.03	3,446.21	0.00	0.00	0.00
10,000.00	90.00	178.29	6,466.00	-3,544.31	116.02	3,546.21	0.00	0.00	0.00
10,100.00	90.00	178.29	6,466.00	-3,644.27	119.01	3,646.21	0.00	0.00	0.00
10,200.00	90.00	178.29	6,466.00	-3,744.22	122.00	3,746.21	0.00	0.00	0.00
10,300.00	90.00	178.29	6,466.00	-3,844.18	124.99	3,846.21	0.00	0.00	0.00
10,400.00	90.00	178.29	6,466.00	-3,944.13	127.98	3,946.21	0.00	0.00	0.00
10,500.00	90.00	178.29	6,466.00	-4,044.09	130.97	4,046.21	0.00	0.00	0.00
10,600.00	90.00	178.29	6,466.00	-4,144.04	133.96	4,146.21	0.00	0.00	0.00
10,700.00	90.00	178.29	6,466.00	-4,244.00	136.95	4,246.21	0.00	0.00	0.00
10,800.00	90.00	178.29	6,466.00	-4,343.95	139.94	4,346.21	0.00	0.00	0.00
TD at 10901.80 - 70 Ranch 5-63-22-58H PBHL									
10,901.80	90.00	178.29	6,466.00	-4,445.71	142.98	4,448.01	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									
LP	0.00	0.00	6,466.00	-349.91	20.46	1,386,922.715	3,302,208.676	40° 23' 25.546 N	104° 24' 54.132 W
- plan hits target center									
- Point									
70 Ranch 5-63-22-58H F	0.00	0.00	6,466.00	-4,445.71	142.98	1,382,828.720	3,302,381.295	40° 22' 45.071 N	104° 24' 52.548 W
- plan hits target center									
- Point									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 70 Ranch 5-63-22-58H
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4655.00usft
Project:	Weld Co., CO	MD Reference:	WELL @ 4655.00usft
Site:	Sec.22-T5N-R63W	North Reference:	True
Well:	70 Ranch 5-63-22-58H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
6,804.17	6,466.00	7" Csg.	7	8-3/4	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
355.00	355.00	Pierre		0.00	
4,165.13	4,154.00	Terry/Sussex		0.00	
4,730.13	4,719.00	Shannon		0.00	
6,216.35	6,190.00	Sharon Springs		0.00	
6,431.48	6,349.00	Niobrara		0.00	
6,634.30	6,441.00	Top B2 Tgt		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,000.00	1,000.00	0.00	0.00	Start Build 2.00°	
1,300.00	1,299.45	15.69	0.23	Start 1831.36' hold at 1300.00 MD	
3,131.36	3,120.78	207.10	3.09	Start Drop -2.00°	
3,431.36	3,420.23	222.79	3.33	Start 2472.81' hold at 3431.36 MD	
5,904.17	5,893.04	222.79	3.33	KOP / Start Build 10.00°	
6,804.17	6,466.00	-349.91	20.46	EOC / Start 4097.63' hold at 6804.17 MD	
10,901.80	6,466.00	-4,445.71	142.98	TD at 10901.80	