



Bill Barrett Corporation

Bill Barrett Corp.

Weld Co., CO

Sec.33-T4N-R62W

Anschutz Eq Farms 4-62-33-1724BH2

Wellbore #1

Plan: Design #1

Standard Planning Report

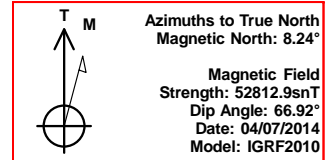
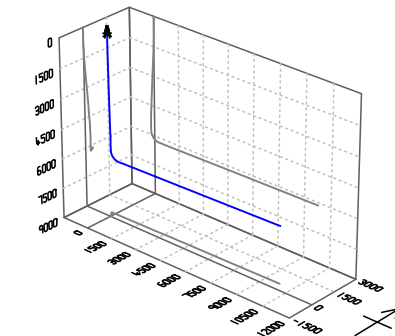
07 April, 2014

Archer



Bill Barrett Corp.
Project: Weld Co., CO
Site: Sec.33-T4N-R62W
Well: Anschutz Eq Farms 4-62-33-1724BH2
Wellbore: Wellbore #1
Design: Design #1
Lat: 40° 16' 12.979 N
Long: 104° 20' 15.050 W
Pad GL: 4658.00
KB: WELL @ 4674.00usft (Original Well Elev)

Archer



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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 1.50
1273.75	5.61	324.51	1273.15	14.88	-10.61	1.50	324.51	-10.39	Start 3646.68 hold at 1273.75 MD
4920.43	5.61	324.51	4902.39	304.93	-217.43	0.00	0.00	-212.89	Start Drop -1.50
5294.17	0.00	0.00	5275.54	319.81	-228.04	1.50	180.00	-223.27	Start 500.03 hold at 5294.17 MD
5794.20	0.00	0.00	5775.57	319.81	-228.04	0.00	0.00	-223.27	Start Build 12.00
6549.72	90.66	89.15	6253.00	326.94	254.89	12.00	89.15	259.71	Start 9525.67 hold at 6549.72 MD
16075.39	90.66	89.15	6143.00	467.50	9778.89	0.00	0.00	9784.75	TD at 16075.39

WELL DETAILS: Anschutz Eq Farms 4-62-33-1724BH2

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude	Slot
0.00	0.00	1343427.738	4658.00	40° 16' 12.979 N	104° 20' 15.050 W	

PROJECT DETAILS: Weld Co., CO

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

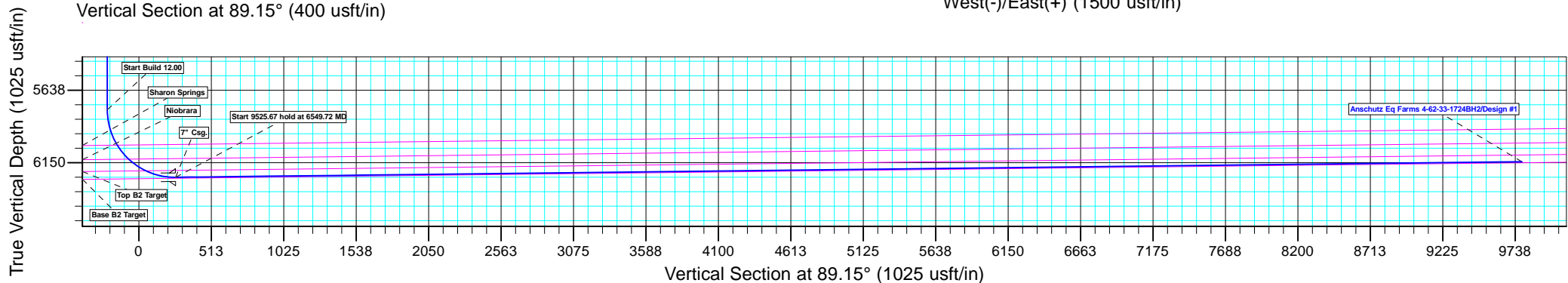
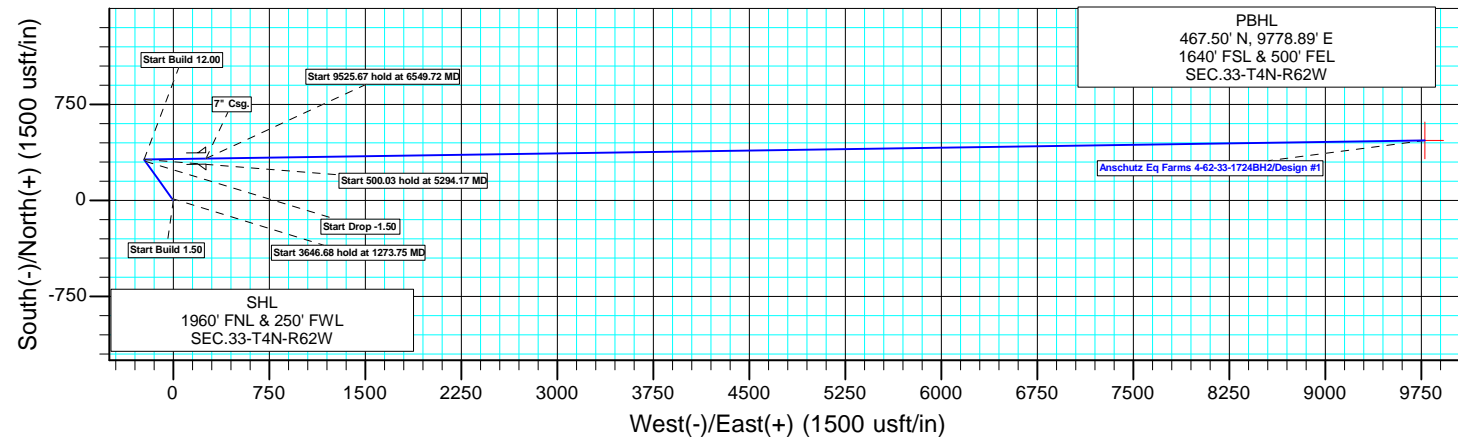
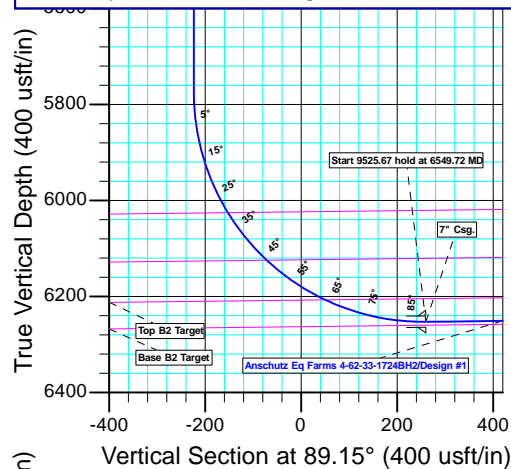
System Datum: Mean Sea Level

CASING DETAILS

TVD	MD	Name
6253.00	6549.72	7" Csg.

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Anschutz Eq Farms 4-62-33-1724BH2 tgt	6143.00	467.50	9778.89	40° 16' 17.580 N	104° 18' 8.888 W	Point



Plan: Design #1 (Anschutz Eq Farms 4-62-33-1724BH2/Wellbore #1)

Created By: Ricky Osburn Date: 9:36, April 07 2014

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-33-1724BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4674.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4674.00usft (Original Well Elev)
Site:	Sec.33-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-33-1724BH2	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.33-T4N-R62W			
Site Position:		Northing:	1,342,329.373 usft	Latitude:	40° 16' 2.122 N
From:	Lat/Long	Easting:	3,324,406.065 usft	Longitude:	104° 20' 14.831 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.75 °

Well	Anschutz Eq Farms 4-62-33-1724BH2					
Well Position	+N/-S	1,098.68 usft	Northing:	1,343,427.738 usft	Latitude:	40° 16' 12.979 N
	+E/-W	-17.02 usft	Easting:	3,324,374.641 usft	Longitude:	104° 20' 15.050 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,658.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2014/04/07	8.24	66.92	52,813

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	89.15

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	
1,273.75	5.61	324.51	1,273.15	14.88	-10.61	1.50	1.50	0.00	324.51	
4,920.43	5.61	324.51	4,902.39	304.93	-217.43	0.00	0.00	0.00	0.00	
5,294.17	0.00	0.00	5,275.54	319.81	-228.04	1.50	-1.50	0.00	180.00	
5,794.20	0.00	0.00	5,775.57	319.81	-228.04	0.00	0.00	0.00	0.00	
6,549.72	90.66	89.15	6,253.00	326.94	254.89	12.00	12.00	0.00	89.15	Anschutz Eq Farms 4
16,075.39	90.66	89.15	6,143.00	467.50	9,778.89	0.00	0.00	0.00	0.00	Anschutz Eq Farms 4

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-33-1724BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4674.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4674.00usft (Original Well Elev)
Site:	Sec.33-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-33-1724BH2	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 1.50									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	1.50	324.51	999.99	1.07	-0.76	-0.74	1.50	1.50	0.00
1,100.00	3.00	324.51	1,099.91	4.26	-3.04	-2.98	1.50	1.50	0.00
1,200.00	4.50	324.51	1,199.69	9.59	-6.84	-6.69	1.50	1.50	0.00
Start 3646.68 hold at 1273.75 MD									
1,273.75	5.61	324.51	1,273.15	14.88	-10.61	-10.39	1.50	1.50	0.00
1,300.00	5.61	324.51	1,299.28	16.96	-12.10	-11.84	0.00	0.00	0.00
1,400.00	5.61	324.51	1,398.80	24.92	-17.77	-17.40	0.00	0.00	0.00
1,500.00	5.61	324.51	1,498.32	32.87	-23.44	-22.95	0.00	0.00	0.00
1,600.00	5.61	324.51	1,597.84	40.83	-29.11	-28.50	0.00	0.00	0.00
1,700.00	5.61	324.51	1,697.37	48.78	-34.78	-34.06	0.00	0.00	0.00
1,800.00	5.61	324.51	1,796.89	56.73	-40.45	-39.61	0.00	0.00	0.00
1,900.00	5.61	324.51	1,896.41	64.69	-46.13	-45.16	0.00	0.00	0.00
2,000.00	5.61	324.51	1,995.93	72.64	-51.80	-50.71	0.00	0.00	0.00
2,100.00	5.61	324.51	2,095.45	80.60	-57.47	-56.27	0.00	0.00	0.00
2,200.00	5.61	324.51	2,194.97	88.55	-63.14	-61.82	0.00	0.00	0.00
2,300.00	5.61	324.51	2,294.50	96.50	-68.81	-67.37	0.00	0.00	0.00
2,400.00	5.61	324.51	2,394.02	104.46	-74.48	-72.93	0.00	0.00	0.00
2,500.00	5.61	324.51	2,493.54	112.41	-80.16	-78.48	0.00	0.00	0.00
2,600.00	5.61	324.51	2,593.06	120.37	-85.83	-84.03	0.00	0.00	0.00
2,700.00	5.61	324.51	2,692.58	128.32	-91.50	-89.59	0.00	0.00	0.00
2,800.00	5.61	324.51	2,792.10	136.27	-97.17	-95.14	0.00	0.00	0.00
2,900.00	5.61	324.51	2,891.63	144.23	-102.84	-100.69	0.00	0.00	0.00
3,000.00	5.61	324.51	2,991.15	152.18	-108.51	-106.24	0.00	0.00	0.00
3,100.00	5.61	324.51	3,090.67	160.14	-114.19	-111.80	0.00	0.00	0.00
3,200.00	5.61	324.51	3,190.19	168.09	-119.86	-117.35	0.00	0.00	0.00
3,300.00	5.61	324.51	3,289.71	176.04	-125.53	-122.90	0.00	0.00	0.00
3,400.00	5.61	324.51	3,389.23	184.00	-131.20	-128.46	0.00	0.00	0.00
3,500.00	5.61	324.51	3,488.76	191.95	-136.87	-134.01	0.00	0.00	0.00
3,600.00	5.61	324.51	3,588.28	199.91	-142.54	-139.56	0.00	0.00	0.00
3,700.00	5.61	324.51	3,687.80	207.86	-148.21	-145.11	0.00	0.00	0.00
3,800.00	5.61	324.51	3,787.32	215.81	-153.89	-150.67	0.00	0.00	0.00
3,900.00	5.61	324.51	3,886.84	223.77	-159.56	-156.22	0.00	0.00	0.00
4,000.00	5.61	324.51	3,986.36	231.72	-165.23	-161.77	0.00	0.00	0.00
4,100.00	5.61	324.51	4,085.89	239.68	-170.90	-167.33	0.00	0.00	0.00
4,200.00	5.61	324.51	4,185.41	247.63	-176.57	-172.88	0.00	0.00	0.00
4,300.00	5.61	324.51	4,284.93	255.59	-182.24	-178.43	0.00	0.00	0.00
4,400.00	5.61	324.51	4,384.45	263.54	-187.92	-183.99	0.00	0.00	0.00
4,500.00	5.61	324.51	4,483.97	271.49	-193.59	-189.54	0.00	0.00	0.00
4,600.00	5.61	324.51	4,583.49	279.45	-199.26	-195.09	0.00	0.00	0.00
4,700.00	5.61	324.51	4,683.02	287.40	-204.93	-200.64	0.00	0.00	0.00
4,800.00	5.61	324.51	4,782.54	295.36	-210.60	-206.20	0.00	0.00	0.00
4,900.00	5.61	324.51	4,882.06	303.31	-216.27	-211.75	0.00	0.00	0.00

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Project:	Weld Co., CO	MD Reference:	WELL @ 4674.00usft (Original Well Elev)
Site:	Sec.33-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-33-1724BH2	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)	
Start Drop -1.50										
4,920.43	5.61	324.51	4,902.39	304.93	-217.43	-212.89	0.00	0.00	0.00	
5,000.00	4.41	324.51	4,981.66	310.59	-221.47	-216.83	1.50	-1.50	0.00	
5,100.00	2.91	324.51	5,081.45	315.79	-225.18	-220.47	1.50	-1.50	0.00	
Shannon										
5,171.17	1.85	324.51	5,152.56	318.20	-226.89	-222.14	1.50	-1.50	0.00	
5,200.00	1.41	324.51	5,181.37	318.86	-227.37	-222.61	1.50	-1.50	0.00	
Start 500.03 hold at 5294.17 MD										
5,294.17	0.00	0.00	5,275.54	319.81	-228.04	-223.27	1.50	-1.50	0.00	
5,300.00	0.00	0.00	5,281.37	319.81	-228.04	-223.27	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,381.37	319.81	-228.04	-223.27	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,481.37	319.81	-228.04	-223.27	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,581.37	319.81	-228.04	-223.27	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,681.37	319.81	-228.04	-223.27	0.00	0.00	0.00	
Start Build 12.00										
5,794.20	0.00	0.00	5,775.57	319.81	-228.04	-223.27	0.00	0.00	0.00	
5,800.00	0.70	89.15	5,781.37	319.81	-228.00	-223.24	12.00	12.00	0.00	
5,825.00	3.70	89.15	5,806.34	319.82	-227.05	-222.28	12.00	12.00	0.00	
5,850.00	6.70	89.15	5,831.24	319.86	-224.78	-220.01	12.00	12.00	0.00	
5,875.00	9.70	89.15	5,855.98	319.91	-221.22	-216.45	12.00	12.00	0.00	
5,900.00	12.70	89.15	5,880.50	319.98	-216.37	-211.60	12.00	12.00	0.00	
5,925.00	15.70	89.15	5,904.74	320.07	-210.24	-205.47	12.00	12.00	0.00	
5,950.00	18.70	89.15	5,928.62	320.18	-202.85	-198.08	12.00	12.00	0.00	
5,975.00	21.70	89.15	5,952.08	320.31	-194.22	-189.45	12.00	12.00	0.00	
6,000.00	24.70	89.15	5,975.05	320.45	-184.38	-179.60	12.00	12.00	0.00	
6,025.00	27.70	89.15	5,997.48	320.62	-173.34	-168.57	12.00	12.00	0.00	
6,050.00	30.70	89.15	6,019.30	320.80	-161.15	-156.37	12.00	12.00	0.00	
Sharon Springs										
6,057.54	31.60	89.15	6,025.76	320.85	-157.25	-152.47	12.00	12.00	0.00	
6,075.00	33.70	89.15	6,040.46	320.99	-147.83	-143.06	12.00	12.00	0.00	
6,100.00	36.70	89.15	6,060.88	321.21	-133.43	-128.65	12.00	12.00	0.00	
6,125.00	39.70	89.15	6,080.53	321.43	-117.97	-113.19	12.00	12.00	0.00	
6,150.00	42.70	89.15	6,099.34	321.68	-101.51	-96.73	12.00	12.00	0.00	
6,175.00	45.70	89.15	6,117.26	321.93	-84.09	-79.30	12.00	12.00	0.00	
Niobrara										
6,185.95	47.01	89.15	6,124.82	322.05	-76.16	-71.38	12.00	12.00	0.00	
6,200.00	48.70	89.15	6,134.25	322.21	-65.75	-60.96	12.00	12.00	0.00	
6,225.00	51.70	89.15	6,150.25	322.49	-46.55	-41.76	12.00	12.00	0.00	
6,250.00	54.70	89.15	6,165.22	322.78	-26.53	-21.74	12.00	12.00	0.00	
6,275.00	57.70	89.15	6,179.13	323.09	-5.77	-0.97	12.00	12.00	0.00	
6,300.00	60.70	89.15	6,191.93	323.41	15.70	20.50	12.00	12.00	0.00	
6,325.00	63.70	89.15	6,203.59	323.73	37.81	42.61	12.00	12.00	0.00	
Top B2 Target										
6,333.79	64.75	89.15	6,207.42	323.85	45.73	50.53	12.00	12.00	0.00	
6,350.00	66.70	89.15	6,214.08	324.07	60.50	65.30	12.00	12.00	0.00	
6,375.00	69.70	89.15	6,223.37	324.41	83.71	88.51	12.00	12.00	0.00	
6,400.00	72.70	89.15	6,231.42	324.76	107.37	112.17	12.00	12.00	0.00	
6,425.00	75.70	89.15	6,238.23	325.12	131.42	136.22	12.00	12.00	0.00	
6,450.00	78.70	89.15	6,243.77	325.47	155.79	160.60	12.00	12.00	0.00	
6,475.00	81.70	89.15	6,248.03	325.84	180.42	185.23	12.00	12.00	0.00	
6,500.00	84.70	89.15	6,250.99	326.20	205.24	210.05	12.00	12.00	0.00	
6,525.00	87.70	89.15	6,252.65	326.57	230.18	234.99	12.00	12.00	0.00	
Start 9525.67 hold at 6549.72 MD - 7" Csg.										

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-33-1724BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4674.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4674.00usft (Original Well Elev)
Site:	Sec.33-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-33-1724BH2	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)	
6,549.72	90.66	89.15	6,253.00	326.94	254.89	259.71	12.00	12.00	0.00	
6,600.00	90.66	89.15	6,252.42	327.68	305.16	309.99	0.00	0.00	0.00	
6,700.00	90.66	89.15	6,251.27	329.15	405.14	409.98	0.00	0.00	0.00	
6,800.00	90.66	89.15	6,250.11	330.63	505.12	509.97	0.00	0.00	0.00	
6,900.00	90.66	89.15	6,248.96	332.11	605.11	609.97	0.00	0.00	0.00	
7,000.00	90.66	89.15	6,247.80	333.58	705.09	709.96	0.00	0.00	0.00	
7,100.00	90.66	89.15	6,246.65	335.06	805.07	809.95	0.00	0.00	0.00	
7,200.00	90.66	89.15	6,245.49	336.53	905.05	909.95	0.00	0.00	0.00	
7,300.00	90.66	89.15	6,244.34	338.01	1,005.04	1,009.94	0.00	0.00	0.00	
7,400.00	90.66	89.15	6,243.18	339.48	1,105.02	1,109.93	0.00	0.00	0.00	
7,500.00	90.66	89.15	6,242.03	340.96	1,205.00	1,209.93	0.00	0.00	0.00	
7,600.00	90.66	89.15	6,240.87	342.44	1,304.98	1,309.92	0.00	0.00	0.00	
7,700.00	90.66	89.15	6,239.72	343.91	1,404.97	1,409.91	0.00	0.00	0.00	
7,800.00	90.66	89.15	6,238.56	345.39	1,504.95	1,509.91	0.00	0.00	0.00	
7,900.00	90.66	89.15	6,237.41	346.86	1,604.93	1,609.90	0.00	0.00	0.00	
8,000.00	90.66	89.15	6,236.25	348.34	1,704.91	1,709.89	0.00	0.00	0.00	
8,100.00	90.66	89.15	6,235.10	349.81	1,804.90	1,809.89	0.00	0.00	0.00	
8,200.00	90.66	89.15	6,233.94	351.29	1,904.88	1,909.88	0.00	0.00	0.00	
8,300.00	90.66	89.15	6,232.79	352.76	2,004.86	2,009.87	0.00	0.00	0.00	
8,400.00	90.66	89.15	6,231.64	354.24	2,104.84	2,109.87	0.00	0.00	0.00	
8,500.00	90.66	89.15	6,230.48	355.72	2,204.82	2,209.86	0.00	0.00	0.00	
8,600.00	90.66	89.15	6,229.33	357.19	2,304.81	2,309.85	0.00	0.00	0.00	
8,700.00	90.66	89.15	6,228.17	358.67	2,404.79	2,409.85	0.00	0.00	0.00	
8,800.00	90.66	89.15	6,227.02	360.14	2,504.77	2,509.84	0.00	0.00	0.00	
8,900.00	90.66	89.15	6,225.86	361.62	2,604.75	2,609.83	0.00	0.00	0.00	
9,000.00	90.66	89.15	6,224.71	363.09	2,704.74	2,709.83	0.00	0.00	0.00	
9,100.00	90.66	89.15	6,223.55	364.57	2,804.72	2,809.82	0.00	0.00	0.00	
9,200.00	90.66	89.15	6,222.40	366.05	2,904.70	2,909.81	0.00	0.00	0.00	
9,300.00	90.66	89.15	6,221.24	367.52	3,004.68	3,009.81	0.00	0.00	0.00	
9,400.00	90.66	89.15	6,220.09	369.00	3,104.67	3,109.80	0.00	0.00	0.00	
9,500.00	90.66	89.15	6,218.93	370.47	3,204.65	3,209.79	0.00	0.00	0.00	
9,600.00	90.66	89.15	6,217.78	371.95	3,304.63	3,309.79	0.00	0.00	0.00	
9,700.00	90.66	89.15	6,216.62	373.42	3,404.61	3,409.78	0.00	0.00	0.00	
9,800.00	90.66	89.15	6,215.47	374.90	3,504.60	3,509.77	0.00	0.00	0.00	
9,900.00	90.66	89.15	6,214.31	376.37	3,604.58	3,609.77	0.00	0.00	0.00	
10,000.00	90.66	89.15	6,213.16	377.85	3,704.56	3,709.76	0.00	0.00	0.00	
10,100.00	90.66	89.15	6,212.00	379.33	3,804.54	3,809.75	0.00	0.00	0.00	
10,200.00	90.66	89.15	6,210.85	380.80	3,904.53	3,909.75	0.00	0.00	0.00	
10,300.00	90.66	89.15	6,209.69	382.28	4,004.51	4,009.74	0.00	0.00	0.00	
10,400.00	90.66	89.15	6,208.54	383.75	4,104.49	4,109.73	0.00	0.00	0.00	
10,500.00	90.66	89.15	6,207.38	385.23	4,204.47	4,209.73	0.00	0.00	0.00	
10,600.00	90.66	89.15	6,206.23	386.70	4,304.46	4,309.72	0.00	0.00	0.00	
10,700.00	90.66	89.15	6,205.07	388.18	4,404.44	4,409.71	0.00	0.00	0.00	
10,800.00	90.66	89.15	6,203.92	389.66	4,504.42	4,509.71	0.00	0.00	0.00	
10,900.00	90.66	89.15	6,202.76	391.13	4,604.40	4,609.70	0.00	0.00	0.00	
11,000.00	90.66	89.15	6,201.61	392.61	4,704.39	4,709.69	0.00	0.00	0.00	
11,100.00	90.66	89.15	6,200.45	394.08	4,804.37	4,809.69	0.00	0.00	0.00	
11,200.00	90.66	89.15	6,199.30	395.56	4,904.35	4,909.68	0.00	0.00	0.00	
11,300.00	90.66	89.15	6,198.14	397.03	5,004.33	5,009.67	0.00	0.00	0.00	
11,400.00	90.66	89.15	6,196.99	398.51	5,104.32	5,109.67	0.00	0.00	0.00	
11,500.00	90.66	89.15	6,195.84	399.98	5,204.30	5,209.66	0.00	0.00	0.00	
11,600.00	90.66	89.15	6,194.68	401.46	5,304.28	5,309.65	0.00	0.00	0.00	
11,700.00	90.66	89.15	6,193.53	402.94	5,404.26	5,409.65	0.00	0.00	0.00	
11,800.00	90.66	89.15	6,192.37	404.41	5,504.25	5,509.64	0.00	0.00	0.00	

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-33-1724BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4674.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4674.00usft (Original Well Elev)
Site:	Sec.33-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-33-1724BH2	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)
11,900.00	90.66	89.15	6,191.22	405.89	5,604.23	5,609.63	0.00	0.00	0.00
12,000.00	90.66	89.15	6,190.06	407.36	5,704.21	5,709.63	0.00	0.00	0.00
12,100.00	90.66	89.15	6,188.91	408.84	5,804.19	5,809.62	0.00	0.00	0.00
12,200.00	90.66	89.15	6,187.75	410.31	5,904.18	5,909.61	0.00	0.00	0.00
12,300.00	90.66	89.15	6,186.60	411.79	6,004.16	6,009.61	0.00	0.00	0.00
12,400.00	90.66	89.15	6,185.44	413.27	6,104.14	6,109.60	0.00	0.00	0.00
12,500.00	90.66	89.15	6,184.29	414.74	6,204.12	6,209.59	0.00	0.00	0.00
12,600.00	90.66	89.15	6,183.13	416.22	6,304.11	6,309.59	0.00	0.00	0.00
12,700.00	90.66	89.15	6,181.98	417.69	6,404.09	6,409.58	0.00	0.00	0.00
12,800.00	90.66	89.15	6,180.82	419.17	6,504.07	6,509.57	0.00	0.00	0.00
12,900.00	90.66	89.15	6,179.67	420.64	6,604.05	6,609.57	0.00	0.00	0.00
13,000.00	90.66	89.15	6,178.51	422.12	6,704.03	6,709.56	0.00	0.00	0.00
13,100.00	90.66	89.15	6,177.36	423.59	6,804.02	6,809.55	0.00	0.00	0.00
13,200.00	90.66	89.15	6,176.20	425.07	6,904.00	6,909.55	0.00	0.00	0.00
13,300.00	90.66	89.15	6,175.05	426.55	7,003.98	7,009.54	0.00	0.00	0.00
13,400.00	90.66	89.15	6,173.89	428.02	7,103.96	7,109.53	0.00	0.00	0.00
13,500.00	90.66	89.15	6,172.74	429.50	7,203.95	7,209.53	0.00	0.00	0.00
13,600.00	90.66	89.15	6,171.58	430.97	7,303.93	7,309.52	0.00	0.00	0.00
13,700.00	90.66	89.15	6,170.43	432.45	7,403.91	7,409.51	0.00	0.00	0.00
13,800.00	90.66	89.15	6,169.27	433.92	7,503.89	7,509.51	0.00	0.00	0.00
13,900.00	90.66	89.15	6,168.12	435.40	7,603.88	7,609.50	0.00	0.00	0.00
14,000.00	90.66	89.15	6,166.96	436.88	7,703.86	7,709.49	0.00	0.00	0.00
14,100.00	90.66	89.15	6,165.81	438.35	7,803.84	7,809.49	0.00	0.00	0.00
14,200.00	90.66	89.15	6,164.65	439.83	7,903.82	7,909.48	0.00	0.00	0.00
14,300.00	90.66	89.15	6,163.50	441.30	8,003.81	8,009.47	0.00	0.00	0.00
14,400.00	90.66	89.15	6,162.34	442.78	8,103.79	8,109.47	0.00	0.00	0.00
14,500.00	90.66	89.15	6,161.19	444.25	8,203.77	8,209.46	0.00	0.00	0.00
14,600.00	90.66	89.15	6,160.04	445.73	8,303.75	8,309.45	0.00	0.00	0.00
14,700.00	90.66	89.15	6,158.88	447.20	8,403.74	8,409.45	0.00	0.00	0.00
14,800.00	90.66	89.15	6,157.73	448.68	8,503.72	8,509.44	0.00	0.00	0.00
14,900.00	90.66	89.15	6,156.57	450.16	8,603.70	8,609.43	0.00	0.00	0.00
15,000.00	90.66	89.15	6,155.42	451.63	8,703.68	8,709.43	0.00	0.00	0.00
15,100.00	90.66	89.15	6,154.26	453.11	8,803.67	8,809.42	0.00	0.00	0.00
15,200.00	90.66	89.15	6,153.11	454.58	8,903.65	8,909.41	0.00	0.00	0.00
15,300.00	90.66	89.15	6,151.95	456.06	9,003.63	9,009.41	0.00	0.00	0.00
15,400.00	90.66	89.15	6,150.80	457.53	9,103.61	9,109.40	0.00	0.00	0.00
15,500.00	90.66	89.15	6,149.64	459.01	9,203.60	9,209.39	0.00	0.00	0.00
15,600.00	90.66	89.15	6,148.49	460.49	9,303.58	9,309.39	0.00	0.00	0.00
15,700.00	90.66	89.15	6,147.33	461.96	9,403.56	9,409.38	0.00	0.00	0.00
15,800.00	90.66	89.15	6,146.18	463.44	9,503.54	9,509.37	0.00	0.00	0.00
15,900.00	90.66	89.15	6,145.02	464.91	9,603.53	9,609.37	0.00	0.00	0.00
16,000.00	90.66	89.15	6,143.87	466.39	9,703.51	9,709.36	0.00	0.00	0.00
TD at 16075.39									
16,075.39	90.66	89.15	6,143.00	467.50	9,778.89	9,784.75	0.00	0.00	0.00

Database:	EDMDBBW	Local Co-ordinate Reference:	Well Anschutz Eq Farms 4-62-33-1724BH2
Company:	Bill Barrett Corp.	TVD Reference:	WELL @ 4674.00usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4674.00usft (Original Well Elev)
Site:	Sec.33-T4N-R62W	North Reference:	True
Well:	Anschutz Eq Farms 4-62-33-1724BH2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Anschutz Eq Farms 4-62-33-1724BH2	0.00	0.00	6,143.00	467.50	9,778.89	1,344,023.391	3,334,146.560	40° 16' 17.580 N	104° 18' 8.888 W
- plan hits target center									
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
6,549.72	6,253.00	7" Csg.	7	8-3/4

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
5,171.17	5,150.00	Shannon		-0.66	89.15
6,057.54	6,024.00	Sharon Springs		-0.66	89.15
6,185.95	6,124.00	Niobrara		-0.66	89.15
6,333.79	6,208.00	Top B2 Target		-0.66	89.15

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
900.00	900.00	0.00	0.00	Start Build 1.50
1,273.75	1,273.15	14.88	-10.61	Start 3646.68 hold at 1273.75 MD
4,920.43	4,902.39	304.93	-217.43	Start Drop -1.50
5,294.17	5,275.54	319.81	-228.04	Start 500.03 hold at 5294.17 MD
5,794.20	5,775.57	319.81	-228.04	Start Build 12.00
6,549.72	6,253.00	326.94	254.89	Start 9525.67 hold at 6549.72 MD
16,075.39	6,143.00	467.50	9,778.89	TD at 16075.39