

Bill Barrett Corp. (IV)

Garfield County, Colorado [NAD83]

MDP 13 Pad

Jolley 42B-20-691

Wellbore #1

Design: Wellbore #1

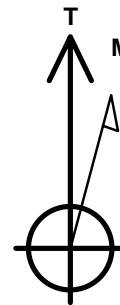
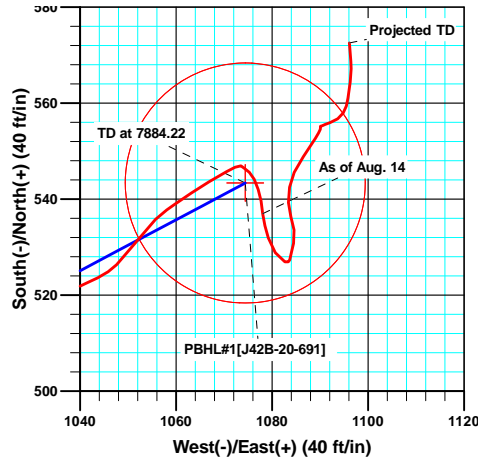
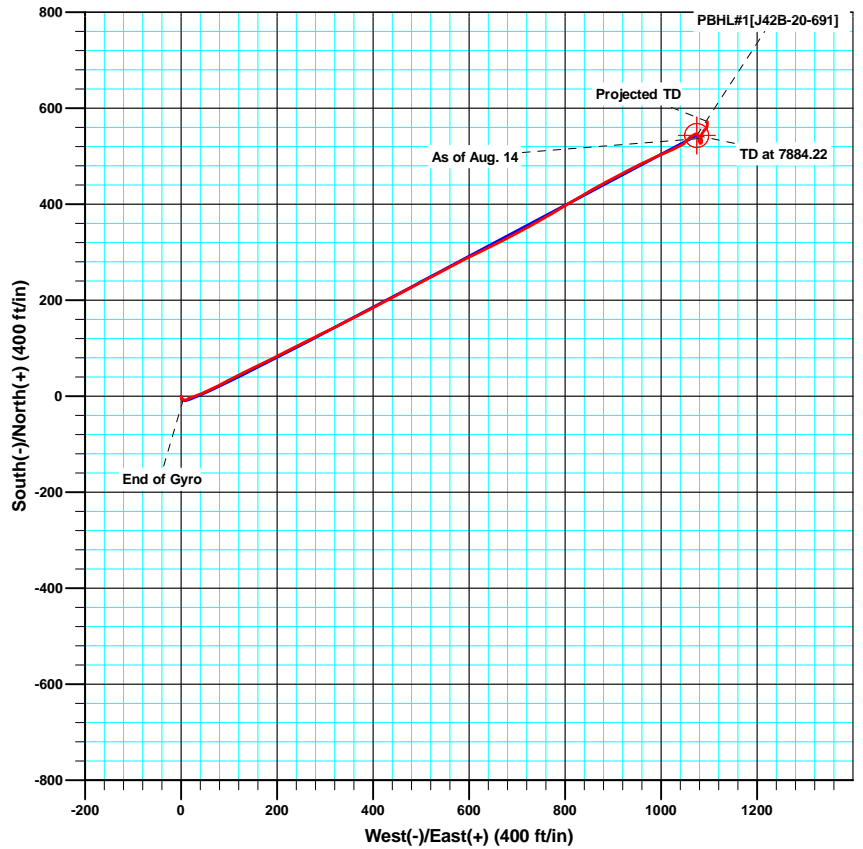
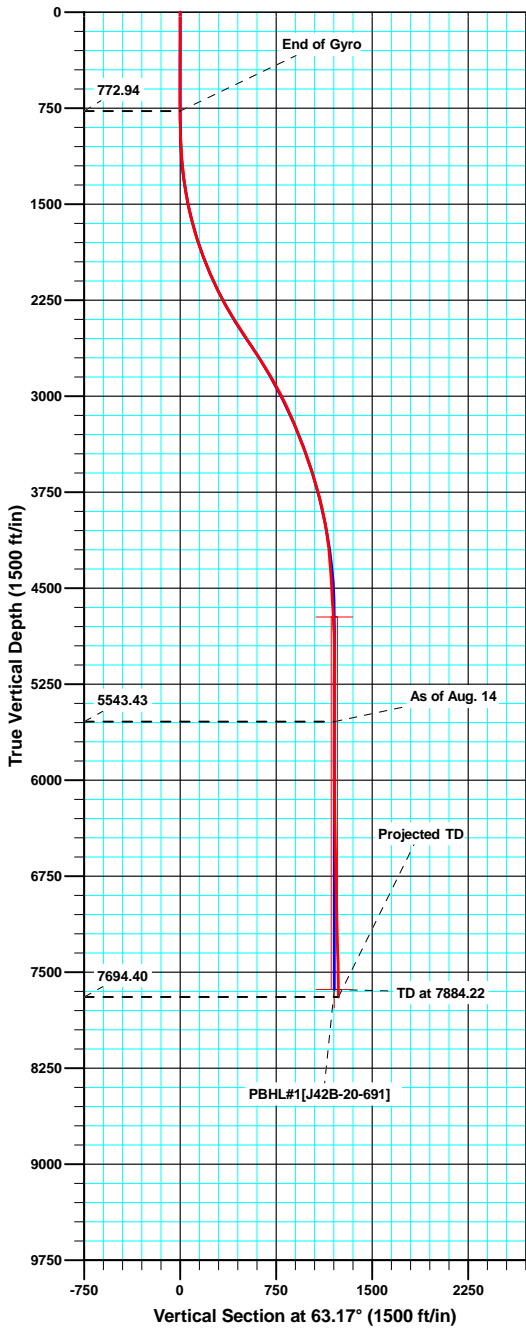
Standard Survey Report

01 December, 2011

WELL DETAILS: Jolley 42B-20-691



North American Datum 1983 US State Plane 1983 Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1618538.27 2414647.77 39° 30' 47.93 N 107° 34' 29.76 W
 MDP 13 Pad



Azimuths to True North
 Magnetic North: 10.16°

Magnetic Field
 Strength: 52310.4snT
 Dip Angle: 65.83°
 Date: 6/16/2011
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
772.94	773.00	0.920	133.42	-6.85	4.57	0.99	9.64	End of Gyro
5543.43	5791.00	1.700	172.40	537.00	1078.06	1204.37	1229.52	As of Aug. 14
7694.40	7943.00	1.800	356.00	572.54	1096.14	1236.55	1293.55	Projected TD



Sharewell Survey Report

Company: Bill Barrett Corp. (IV)	Local Co-ordinate Reference: Well Jolley 42B-20-691
Project: Garfield County, Colorado [NAD83]	TVD Reference: WELL @ 6452.00ft (Original Well Elev)
Site: MDP 13 Pad	MD Reference: WELL @ 6452.00ft (Original Well Elev)
Well: Jolley 42B-20-691	North Reference: True
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: Compass VM

Project Garfield County, Colorado [NAD83]			
Map System: US State Plane 1983	System Datum: Mean Sea Level		
Geo Datum: North American Datum 1983			
Map Zone: Colorado Central Zone			

Site MDP 13 Pad, Sec 20, T-6-S, R-91-W			
Site Position:	Northing: 1,618,553.18 usft	Latitude: 39° 30' 48.08 N	
From: Lat/Long	Easting: 2,414,651.31 usft	Longitude: 107° 34' 29.72 W	
Position Uncertainty: 0.00 ft	Slot Radius: 1.10 ft	Grid Convergence: -1.31 °	

Well Jolley 42B-20-691			
Well Position	+N/-S 0.00 ft	Northing: 1,618,538.26 usft	Latitude: 39° 30' 47.93 N
	+E/-W 0.00 ft	Easting: 2,414,647.78 usft	Longitude: 107° 34' 29.76 W
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 0.00 ft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/16/2011	10.16	65.83	52,310

Design Wellbore #1					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00			
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	63.17	

Survey Program		Date 12/1/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	773.00	Gyro (Wellbore #1)	Gyro	Gyro	
800.00	7,943.00	MWD Surveys (Wellbore #1)			

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)	
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	0.530	137.66	50.00	-0.17	0.16	0.06	1.06	1.06	0.00	
100.00	1.020	137.76	99.99	-0.67	0.61	0.24	0.98	0.98	0.20	
150.00	0.840	164.87	149.99	-1.35	1.01	0.29	0.94	-0.36	54.22	
200.00	0.750	172.93	199.98	-2.03	1.14	0.10	0.29	-0.18	16.12	
250.00	0.780	185.80	249.98	-2.70	1.15	-0.19	0.35	0.06	25.74	
300.00	0.670	189.02	299.97	-3.32	1.07	-0.55	0.23	-0.22	6.44	
350.00	0.530	206.40	349.97	-3.82	0.92	-0.90	0.46	-0.28	34.76	
400.00	0.530	202.21	399.97	-4.24	0.73	-1.26	0.08	0.00	-8.38	
450.00	0.480	129.07	449.97	-4.59	0.80	-1.35	1.21	-0.10	-146.28	

Sharewell

Survey Report

Company:	Bill Barrett Corp. (IV)	Local Co-ordinate Reference:	Well Jolley 42B-20-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	WELL @ 6452.00ft (Original Well Elev)
Site:	MDP 13 Pad	MD Reference:	WELL @ 6452.00ft (Original Well Elev)
Well:	Jolley 42B-20-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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)
500.00	0.500	107.56	499.97	-4.78	1.17	-1.11	0.37	0.04	-43.02
550.00	0.670	97.90	549.96	-4.89	1.67	-0.72	0.39	0.34	-19.32
600.00	0.890	113.08	599.96	-5.08	2.32	-0.23	0.60	0.44	30.36
650.00	1.080	127.26	649.95	-5.52	3.05	0.23	0.62	0.38	28.36
700.00	0.900	128.73	699.94	-6.05	3.73	0.60	0.36	-0.36	2.94
750.00	0.910	136.61	749.94	-6.59	4.31	0.87	0.25	0.02	15.76
773.00	0.920	133.42	772.94	-6.85	4.57	0.99	0.23	0.04	-13.87
800.00	0.920	133.42	799.93	-7.14	4.89	1.14	0.00	0.00	0.00
834.80	0.920	133.42	834.73	-7.53	5.29	1.32	0.00	0.00	0.00
898.00	0.700	151.70	897.92	-8.22	5.84	1.51	0.53	-0.35	28.92
959.00	1.700	104.50	958.91	-8.77	6.90	2.20	2.18	1.64	-77.38
1,053.00	3.000	53.70	1,052.84	-7.66	10.23	5.67	2.48	1.38	-54.04
1,148.00	4.700	69.00	1,147.62	-4.80	15.87	11.99	2.08	1.79	16.11
1,243.00	6.200	67.90	1,242.19	-1.47	24.25	20.98	1.58	1.58	-1.16
1,338.00	8.600	70.40	1,336.39	2.84	35.70	33.14	2.55	2.53	2.63
1,433.00	10.100	63.80	1,430.13	8.90	49.87	48.52	1.94	1.58	-6.95
1,528.00	12.000	65.80	1,523.36	16.63	66.35	66.71	2.04	2.00	2.11
1,623.00	14.000	62.70	1,615.93	25.95	85.57	88.07	2.23	2.11	-3.26
1,718.00	15.900	62.30	1,707.71	37.27	107.31	112.58	2.00	2.00	-0.42
1,813.00	18.500	63.50	1,798.45	50.05	132.32	140.66	2.76	2.74	1.26
1,907.00	20.400	64.30	1,887.08	63.81	160.43	171.96	2.04	2.02	0.85
2,002.00	22.500	63.00	1,975.50	79.24	191.55	206.70	2.27	2.21	-1.37
2,098.00	23.400	63.30	2,063.90	96.15	224.95	244.13	0.95	0.94	0.31
2,193.00	24.600	63.20	2,150.68	113.54	259.45	282.77	1.26	1.26	-0.11
2,288.00	27.900	64.20	2,235.87	132.13	297.12	324.78	3.50	3.47	1.05
2,383.00	30.800	62.90	2,318.67	152.89	338.80	371.33	3.13	3.05	-1.37
2,477.00	32.100	62.80	2,398.86	175.27	382.44	420.37	1.38	1.38	-0.11
2,572.00	32.800	62.10	2,479.03	198.85	427.63	471.34	0.84	0.74	-0.74
2,667.00	33.200	61.90	2,558.70	223.14	473.31	523.07	0.44	0.42	-0.21
2,762.00	33.800	61.50	2,637.92	248.00	519.48	575.49	0.67	0.63	-0.42
2,857.00	32.900	62.90	2,717.28	272.36	565.67	627.70	1.25	-0.95	1.47
2,951.00	30.600	64.00	2,797.20	294.48	609.90	677.16	2.52	-2.45	1.17
3,047.00	29.500	63.50	2,880.30	315.74	653.02	725.23	1.18	-1.15	-0.52
3,142.00	28.600	61.70	2,963.35	336.96	693.97	771.35	1.32	-0.95	-1.89
3,236.00	26.500	61.70	3,046.69	357.57	732.25	814.81	2.23	-2.23	0.00
3,331.00	23.600	59.00	3,132.74	377.42	767.22	854.98	3.28	-3.05	-2.84
3,426.00	21.900	59.30	3,220.35	396.26	798.76	891.62	1.79	-1.79	0.32
3,521.00	21.400	59.90	3,308.65	414.00	828.99	926.60	0.58	-0.53	0.63
3,615.00	21.400	59.60	3,396.17	431.27	858.62	960.84	0.12	0.00	-0.32
3,710.00	19.600	62.70	3,485.15	447.35	887.73	994.07	2.21	-1.89	3.26
3,805.00	17.900	61.80	3,575.11	461.56	914.76	1,024.61	1.82	-1.79	-0.95
3,901.00	16.500	63.20	3,666.81	474.68	939.93	1,052.99	1.52	-1.46	1.46
3,995.00	14.700	63.20	3,757.34	486.08	962.49	1,078.27	1.91	-1.91	0.00

Sharewell

Survey Report

Company:	Bill Barrett Corp. (IV)	Local Co-ordinate Reference:	Well Jolley 42B-20-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	WELL @ 6452.00ft (Original Well Elev)
Site:	MDP 13 Pad	MD Reference:	WELL @ 6452.00ft (Original Well Elev)
Well:	Jolley 42B-20-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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)	
4,090.00	13.600	65.90	3,849.46	496.07	983.44	1,101.48	1.35	-1.16	2.84	
4,185.00	11.300	67.10	3,942.22	504.26	1,002.22	1,121.92	2.44	-2.42	1.26	
4,280.00	9.500	66.80	4,035.66	510.97	1,018.00	1,139.03	1.90	-1.89	-0.32	
4,374.00	8.300	60.60	4,128.53	517.36	1,031.04	1,153.55	1.63	-1.28	-6.60	
4,469.00	5.400	67.70	4,222.84	522.42	1,041.15	1,164.86	3.17	-3.05	7.47	
4,563.00	4.000	46.70	4,316.53	526.35	1,047.63	1,172.42	2.34	-1.49	-22.34	
4,658.00	3.600	33.80	4,411.32	531.10	1,051.70	1,178.19	0.99	-0.42	-13.58	
4,752.00	4.000	47.40	4,505.11	535.77	1,055.76	1,183.92	1.05	0.43	14.47	
4,847.00	2.700	57.40	4,599.95	539.22	1,060.08	1,189.34	1.50	-1.37	10.53	
4,940.00	3.300	56.50	4,692.82	541.87	1,064.16	1,194.17	0.65	0.65	-0.97	
5,034.00	3.500	59.70	4,786.66	544.82	1,068.89	1,199.72	0.29	0.21	3.40	
5,129.00	1.200	66.80	4,881.57	546.67	1,072.31	1,203.61	2.44	-2.42	7.47	
5,224.00	0.400	112.70	4,976.56	546.93	1,073.53	1,204.82	1.02	-0.84	48.32	
5,319.00	0.700	132.00	5,071.56	546.42	1,074.27	1,205.25	0.37	0.32	20.32	
5,414.00	0.900	128.70	5,166.55	545.56	1,075.28	1,205.76	0.22	0.21	-3.47	
5,508.00	1.300	156.00	5,260.53	544.13	1,076.29	1,206.02	0.69	0.43	29.04	
5,602.00	1.500	159.30	5,354.50	542.00	1,077.16	1,205.83	0.23	0.21	3.51	
5,696.00	1.500	173.60	5,448.47	539.63	1,077.73	1,205.27	0.40	0.00	15.21	
5,791.00	1.700	172.40	5,543.43	537.00	1,078.06	1,204.37	0.21	0.21	-1.26	
5,885.00	1.400	164.70	5,637.40	534.51	1,078.54	1,203.69	0.39	-0.32	-8.19	
5,980.00	1.800	166.00	5,732.36	531.94	1,079.21	1,203.12	0.42	0.42	1.37	
6,075.00	2.400	145.60	5,827.30	528.85	1,080.70	1,203.05	1.00	0.63	-21.47	
6,170.00	1.100	106.00	5,922.26	526.96	1,082.70	1,203.98	1.79	-1.37	-41.68	
6,265.00	0.800	11.20	6,017.25	527.36	1,083.70	1,205.06	1.49	-0.32	-99.79	
6,359.00	1.000	12.50	6,111.24	528.80	1,084.01	1,205.99	0.21	0.21	1.38	
6,454.00	1.500	15.00	6,206.21	530.81	1,084.51	1,207.34	0.53	0.53	2.63	
6,550.00	1.900	350.90	6,302.17	533.60	1,084.58	1,208.66	0.84	0.42	-25.10	
6,644.00	1.600	343.00	6,396.13	536.39	1,083.95	1,209.36	0.41	-0.32	-8.40	
6,739.00	2.000	355.50	6,491.08	539.31	1,083.43	1,210.22	0.59	0.42	13.16	
6,834.00	1.900	12.80	6,586.03	542.50	1,083.65	1,211.85	0.63	-0.11	18.21	
6,929.00	2.000	22.30	6,680.97	545.57	1,084.63	1,214.11	0.36	0.11	10.00	
7,024.00	2.600	35.90	6,775.90	548.85	1,086.52	1,217.28	0.85	0.63	14.32	
7,119.00	2.900	31.30	6,870.79	552.65	1,089.03	1,221.23	0.39	0.32	-4.84	
7,213.00	0.300	313.00	6,964.75	554.85	1,090.09	1,223.17	3.04	-2.77	-83.30	
7,308.00	0.300	54.50	7,059.75	555.16	1,090.11	1,223.33	0.49	0.00	106.84	
7,403.00	2.300	71.10	7,154.72	555.92	1,092.12	1,225.46	2.12	2.11	17.47	
7,498.00	2.000	32.50	7,249.65	557.94	1,094.81	1,228.78	1.53	-0.32	-40.63	
7,593.00	2.100	4.10	7,344.60	561.07	1,095.83	1,231.10	1.06	0.11	-29.89	
7,687.00	2.000	12.20	7,438.54	564.40	1,096.30	1,233.02	0.33	-0.11	8.62	
7,772.00	1.800	356.00	7,523.49	567.18	1,096.52	1,234.47	0.67	-0.24	-19.06	
7,822.00	1.800	356.00	7,573.46	568.74	1,096.41	1,235.08	0.00	0.00	0.00	
7,943.00	1.800	356.00	7,694.40	572.54	1,096.14	1,236.55	0.00	0.00	0.00	

Sharewell
Survey Report

Company:	Bill Barrett Corp. (IV)	Local Co-ordinate Reference:	Well Jolley 42B-20-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	WELL @ 6452.00ft (Original Well Elev)
Site:	MDP 13 Pad	MD Reference:	WELL @ 6452.00ft (Original Well Elev)
Well:	Jolley 42B-20-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
773.00	772.94	-6.85	4.57	End of Gyro
5,791.00	5,543.43	537.00	1,078.06	As of Aug. 14
7,943.00	7,694.40	572.54	1,096.14	Projected TD

Checked By: _____ Approved By: _____ Date: _____