

Bill Barrett Corp.

Garfield County, Colorado [NAD83]

MDP 13 Pad

Federal 32A-20-691

Wellbore #1

Design: Wellbore #1

Standard Survey Report

29 August, 2011

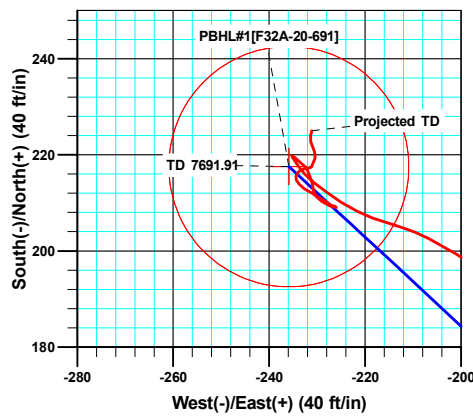
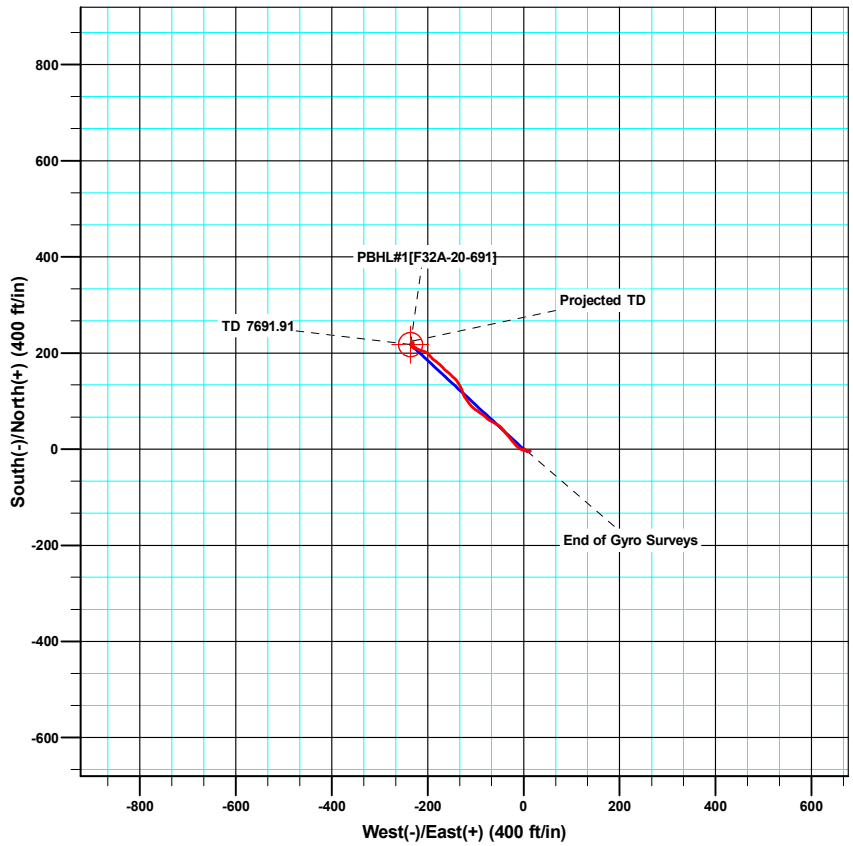
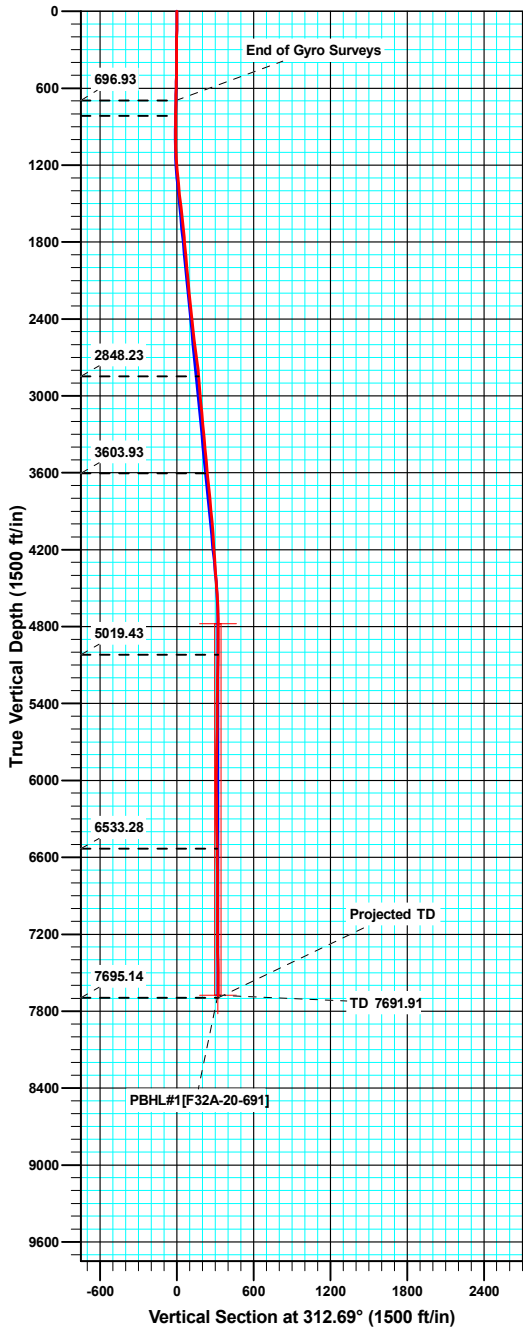
WELL DETAILS: Federal 32A-20-691

Ground Level: 6452.00



North American Datum 1983	US State Plane 1983	Colorado Central Zone
+N/-S	+E/-W	Northing
0.00	0.00	1618524.39
		2414634.91
		39.513275
		-107.574978

MDP 13 Pad



Azimuths to True North
Magnetic North: 10.16°

Magnetic Field
Strength: 52310.4snT
Dip Angle: 65.83°
Date: 06/16/2011
Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
696.93	697.00	1.47	95.51	-3.56	7.02	-7.58	9.08	End of Gyro Surveys
817.19	817.30	1.47	95.51	-3.86	10.10	-10.04	12.16	As of Aug. 22
2848.23	2858.00	5.40	341.10	114.07	-125.59	169.65	200.97	As of Aug. 23
3603.93	3617.00	5.30	322.40	168.94	-168.02	238.04	271.82	As of Aug 24
5019.43	5036.00	0.70	131.60	219.33	-234.51	321.08	358.86	As of Aug 25
6533.28	6550.00	1.10	300.00	212.05	-231.07	313.62	380.33	As of Aug 26
7695.14	7712.00	0.30	2.80	225.02	-231.14	322.46	398.41	Projected TD



Sharewell Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well Federal 32A-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: Federal 32A-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:	39.513355
From: Lat/Long	Easting: 2,414,651.31 usft	Longitude:	-107.574922
Position Uncertainty: 0.00 ft	Slot Radius: 1.10 ft	Grid Convergence:	-1.31 °

Well Federal 32A-20-691			
Well Position	+N/-S 0.00 ft	Northing: 1,618,524.38 usft	Latitude: 39.513275
	+E/-W 0.00 ft	Easting: 2,414,634.92 usft	Longitude: -107.574978
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 6,452.00 ft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/16/11	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	312.69	

Survey Program		Date 08/29/11		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
50.00	697.00	Gyro (Wellbore #1)	Gyro	Gyro
700.00	7,712.00	MWD Surveys (Wellbore #1)		

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	0.34	87.61	50.00	0.01	0.15	-0.10	0.68	0.68	0.00
100.00	0.72	111.20	100.00	-0.10	0.59	-0.50	0.86	0.76	47.18
150.00	0.71	145.20	149.99	-0.47	1.06	-1.10	0.84	-0.02	68.00
200.00	0.56	169.39	199.99	-0.96	1.28	-1.59	0.61	-0.30	48.38
250.00	0.16	217.26	249.99	-1.26	1.28	-1.80	0.94	-0.80	95.74
300.00	0.44	183.87	299.99	-1.51	1.23	-1.92	0.64	0.56	-66.78
350.00	0.63	66.25	349.99	-1.59	1.47	-2.15	1.84	0.38	-235.24
400.00	0.83	78.51	399.98	-1.40	2.07	-2.48	0.51	0.40	24.52
450.00	0.83	104.58	449.98	-1.42	2.78	-3.01	0.75	0.00	52.14

Sharewell

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Site:	MDP 13 Pad	MD Reference:	WELL @ 6452.00ft (Original Well Elev)
Well:	Federal 32A-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	1.09	115.46	499.97	-1.72	3.56	-3.78	0.63	0.52	21.76
550.00	0.94	133.52	549.96	-2.21	4.29	-4.65	0.70	-0.30	36.12
600.00	1.15	131.18	599.96	-2.82	4.96	-5.56	0.43	0.42	-4.68
650.00	1.35	108.21	649.94	-3.33	5.90	-6.60	1.07	0.40	-45.94
697.00	1.47	95.51	696.93	-3.56	7.02	-7.58	0.71	0.26	-27.02
700.00	1.47	95.51	699.93	-3.57	7.10	-7.64	0.00	0.00	0.00
800.00	1.47	95.51	799.90	-3.82	9.65	-9.68	0.00	0.00	0.00
817.30	1.47	95.51	817.19	-3.86	10.10	-10.04	0.00	0.00	0.00
870.00	1.10	117.50	869.88	-4.16	11.22	-11.07	1.16	-0.70	41.73
960.00	0.70	310.20	959.87	-4.20	11.56	-11.35	1.99	-0.44	-185.89
1,055.00	2.50	274.90	1,054.83	-3.65	9.06	-9.13	2.07	1.89	-37.16
1,150.00	3.90	274.60	1,149.68	-3.22	3.77	-4.95	1.47	1.47	-0.32
1,245.00	5.30	291.10	1,244.38	-1.38	-3.54	1.67	2.01	1.47	17.37
1,339.00	5.90	309.30	1,337.94	3.25	-11.33	10.53	1.98	0.64	19.36
1,434.00	6.80	321.40	1,432.36	10.74	-18.62	20.97	1.69	0.95	12.74
1,529.00	6.30	320.10	1,526.74	19.13	-25.47	31.69	0.55	-0.53	-1.37
1,624.00	5.70	318.60	1,621.22	26.67	-31.94	41.56	0.65	-0.63	-1.58
1,719.00	6.40	322.30	1,715.69	34.40	-38.29	51.47	0.84	0.74	3.89
1,814.00	5.40	319.80	1,810.18	42.00	-44.42	61.13	1.09	-1.05	-2.63
1,909.00	4.90	305.20	1,904.80	47.75	-50.62	69.58	1.47	-0.53	-15.37
2,004.00	5.20	299.10	1,999.44	52.18	-57.70	77.79	0.65	0.32	-6.42
2,099.00	5.40	300.30	2,094.03	56.53	-65.32	86.34	0.24	0.21	1.26
2,194.00	5.30	304.40	2,188.62	61.27	-72.80	95.05	0.42	-0.11	4.32
2,289.00	6.10	313.60	2,283.15	67.23	-80.07	104.44	1.28	0.84	9.68
2,384.00	5.60	304.50	2,377.65	73.33	-87.55	114.07	1.11	-0.53	-9.58
2,479.00	6.90	303.30	2,472.09	79.09	-96.14	124.29	1.38	1.37	-1.26
2,574.00	7.70	312.40	2,566.32	86.52	-105.61	136.29	1.48	0.84	9.58
2,668.00	7.00	324.10	2,659.55	95.40	-113.62	148.20	1.75	-0.74	12.45
2,763.00	7.30	323.80	2,753.81	104.96	-120.58	159.80	0.32	0.32	-0.32
2,858.00	5.40	341.10	2,848.23	114.07	-125.59	169.65	2.82	-2.00	18.21
2,952.00	5.00	339.70	2,941.85	122.09	-128.44	177.19	0.45	-0.43	-1.49
3,047.00	5.40	330.00	3,036.46	129.85	-132.12	185.15	1.02	0.42	-10.21
3,142.00	5.40	330.20	3,131.04	137.60	-136.57	193.68	0.02	0.00	0.21
3,237.00	5.90	314.90	3,225.58	144.92	-142.25	202.82	1.66	0.53	-16.11
3,332.00	5.50	318.40	3,320.11	151.77	-148.73	212.23	0.56	-0.42	3.68
3,427.00	5.40	309.70	3,414.68	158.03	-155.20	221.23	0.88	-0.11	-9.16
3,522.00	4.90	304.30	3,509.30	163.18	-161.99	229.70	0.73	-0.53	-5.68
3,617.00	5.30	322.40	3,603.93	168.94	-168.02	238.04	1.74	0.42	19.05
3,712.00	5.90	310.00	3,698.48	175.55	-174.43	247.24	1.42	0.63	-13.05
3,807.00	5.50	305.90	3,793.01	181.36	-181.86	256.64	0.60	-0.42	-4.32
3,901.00	5.60	314.90	3,886.57	187.24	-188.76	265.70	0.93	0.11	9.57
3,996.00	5.60	320.20	3,981.12	194.07	-195.01	274.93	0.54	0.00	5.58
4,092.00	4.00	299.80	4,076.78	199.34	-200.92	282.84	2.41	-1.67	-21.25

Sharewell

Survey Report

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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:	Federal 32A-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)	
4,187.00	4.00	298.80	4,171.55	202.58	-206.69	289.28	0.07	0.00	-1.05	
4,281.00	3.60	284.20	4,265.35	204.88	-212.43	295.06	1.11	-0.43	-15.53	
4,376.00	4.00	291.10	4,360.14	206.81	-218.41	300.76	0.64	0.42	7.26	
4,471.00	4.90	302.10	4,454.85	210.16	-224.94	307.83	1.30	0.95	11.58	
4,564.00	3.70	310.00	4,547.59	214.20	-230.60	314.73	1.44	-1.29	8.49	
4,659.00	2.20	326.70	4,642.47	217.69	-233.95	319.56	1.80	-1.58	17.58	
4,754.00	0.40	323.80	4,737.44	219.48	-235.15	321.66	1.90	-1.89	-3.05	
4,849.00	0.10	44.70	4,832.44	219.81	-235.29	321.98	0.42	-0.32	85.16	
4,941.00	0.20	117.90	4,924.44	219.79	-235.09	321.82	0.21	0.11	79.57	
5,036.00	0.70	131.60	5,019.43	219.33	-234.51	321.08	0.53	0.53	14.42	
5,131.00	0.70	134.90	5,114.43	218.53	-233.66	319.92	0.04	0.00	3.47	
5,225.00	0.90	127.00	5,208.42	217.68	-232.67	318.61	0.24	0.21	-8.40	
5,320.00	0.60	169.30	5,303.41	216.75	-231.98	317.47	0.64	-0.32	44.53	
5,415.00	0.90	148.90	5,398.40	215.62	-231.50	316.36	0.42	0.32	-21.47	
5,510.00	1.10	173.40	5,493.39	214.07	-231.01	314.95	0.49	0.21	25.79	
5,603.00	0.90	161.90	5,586.37	212.49	-230.68	313.64	0.30	-0.22	-12.37	
5,697.00	0.70	140.80	5,680.36	211.35	-230.09	312.42	0.38	-0.21	-22.45	
5,792.00	1.10	128.80	5,775.35	210.33	-229.01	310.94	0.46	0.42	-12.63	
5,887.00	1.10	112.80	5,870.33	209.40	-227.46	309.17	0.32	0.00	-16.84	
5,982.00	0.70	88.80	5,965.32	209.06	-226.04	307.90	0.57	-0.42	-25.26	
6,077.00	0.80	287.90	6,060.32	209.28	-226.09	308.08	1.56	0.11	-169.37	
6,172.00	0.60	282.20	6,155.31	209.58	-227.21	309.11	0.22	-0.21	-6.00	
6,267.00	1.00	315.60	6,250.30	210.28	-228.27	310.37	0.63	0.42	35.16	
6,361.00	0.30	277.80	6,344.30	210.90	-229.09	311.39	0.83	-0.74	-40.21	
6,455.00	0.70	305.10	6,438.29	211.26	-229.81	312.16	0.48	0.43	29.04	
6,550.00	1.10	300.00	6,533.28	212.05	-231.07	313.62	0.43	0.42	-5.37	
6,645.00	1.00	298.30	6,628.27	212.90	-232.59	315.32	0.11	-0.11	-1.79	
6,740.00	0.80	330.60	6,723.25	213.87	-233.64	316.75	0.56	-0.21	34.00	
6,835.00	0.60	313.10	6,818.25	214.79	-234.33	317.88	0.31	-0.21	-18.42	
6,930.00	0.60	33.60	6,913.24	215.55	-234.42	318.45	0.82	0.00	84.74	
7,025.00	0.80	28.10	7,008.24	216.55	-233.83	318.70	0.22	0.21	-5.79	
7,120.00	0.80	97.40	7,103.23	217.05	-232.86	318.33	0.96	0.00	72.95	
7,215.00	1.30	63.90	7,198.21	217.43	-231.24	317.39	0.81	0.53	-35.26	
7,310.00	1.80	355.90	7,293.19	219.40	-230.38	318.09	1.88	0.53	-71.58	
7,405.00	0.70	326.40	7,388.16	221.37	-230.80	319.74	1.30	-1.16	-31.05	
7,499.00	1.10	349.20	7,482.15	222.73	-231.29	321.03	0.56	0.43	24.26	
7,594.00	0.70	17.50	7,577.14	224.18	-231.29	322.01	0.62	-0.42	29.79	
7,662.00	0.30	2.80	7,645.14	224.76	-231.15	322.30	0.61	-0.59	-21.62	
7,712.00	0.30	2.80	7,695.14	225.02	-231.14	322.46	0.00	0.00	0.00	

Sharewell

Survey Report

Company: Bill Barrett Corp.	Local Co-ordinate Reference: Well Federal 32A-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)
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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)	
697.00	696.93	-3.56	7.02	End of Gyro Surveys
817.30	817.19	-3.86	10.10	As of Aug. 22
2,858.00	2,848.23	114.07	-125.59	As of Aug. 23
3,617.00	3,603.93	168.94	-168.02	As of Aug 24
5,036.00	5,019.43	219.33	-234.51	As of Aug 25
6,550.00	6,533.28	212.05	-231.07	As of Aug 26
7,712.00	7,695.14	225.02	-231.14	Projected TD

Checked By: _____ Approved By: _____ Date: _____