



**Bill Barrett Corporation**

Well Name and Number:

**Specialty 41B-28-692**

Patterson 301  
Garfield County, Colorado

Directional Services Provided By:

**Sharewell Energy Services, LP**





July 28, 2010

**Troy Schindler**  
**Drilling Manager**

**Bill Barrett Corporation**  
**1099 18<sup>th</sup> Street**  
**Suite 2300**  
**Denver, CO 80202**

Well Reference: **Specialty 41B-28-692**  
**Garfield County, Colorado**

Dear Troy,

Enclosed you will find our End of Well Report for the above referenced well.

If you have any questions or comments, please do not hesitate to contact me at anytime.

Thank you very much for your confidence and this opportunity to serve **Bill Barrett Corporation**.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Williams".

Stephen Williams



[swilliams@sharewell.com](mailto:swilliams@sharewell.com)



**Bill Barrett Corporation**

## **Bill Barrett Corp.**

Garfield County, Colorado

Specialty 4 Pad

Specialty 41B-28-692

Wellbore #1

Survey: Surveys

## **Standard Survey Report**

28 July, 2010

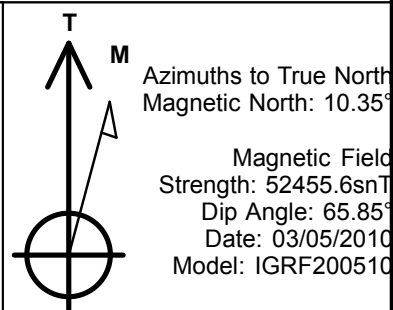
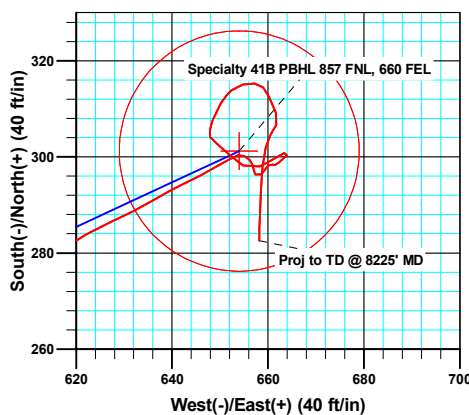
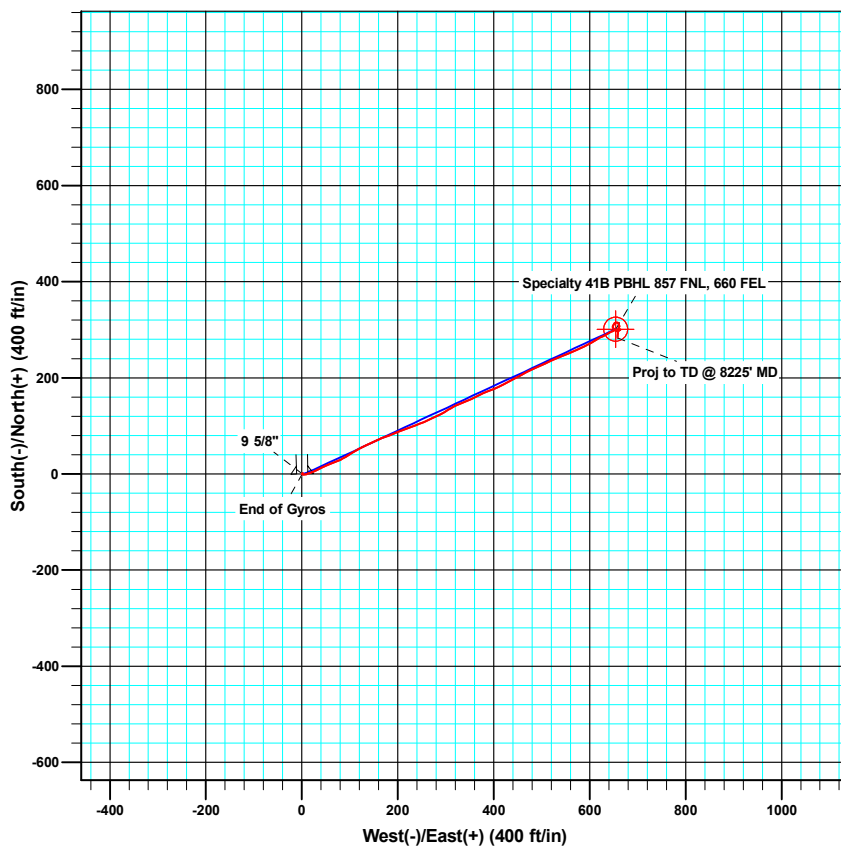
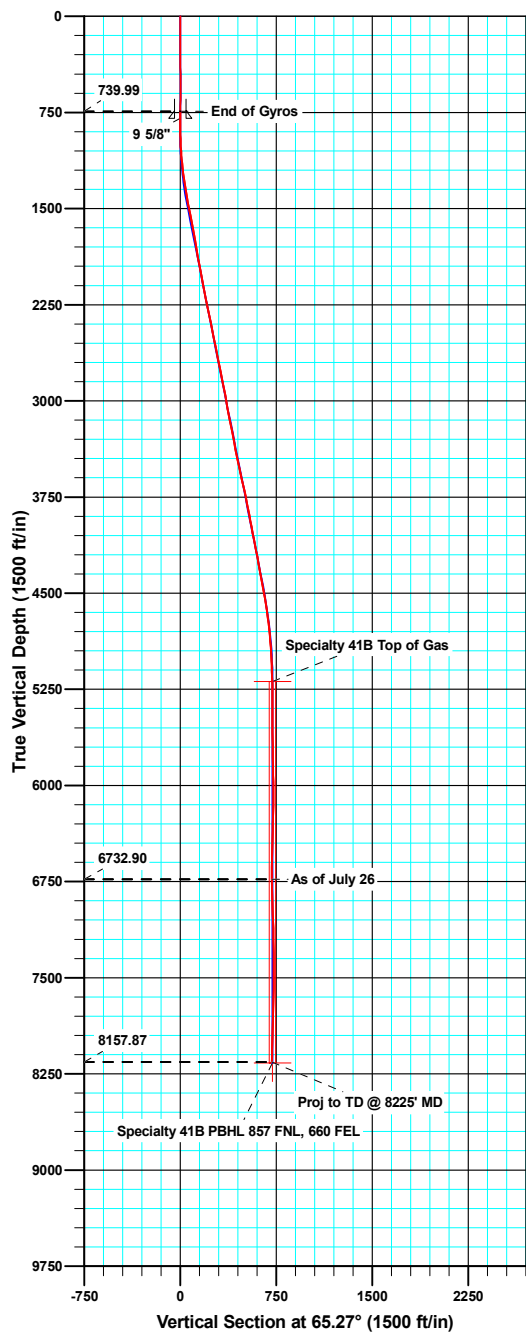




WELL DETAILS: Specialty 41B-28-692

Ground Level: 5775.00

North American Datum 1983		US State Plane 1983		Colorado Central Zone	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1615042.24	2388615.98	39.502050	-107.666880



#### ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
6732.90	6799.00	1.70	347.30	304.15	647.94	715.76	761.24	As of July 26
8157.87	8225.00	3.10	180.60	282.61	658.20	716.06	813.35	Proj to TD @ 8225' MD

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Specialty 41B-28-692
<b>Project:</b>	Garfield County, Colorado	<b>TVD Reference:</b>	KB @ 5797.00ft
<b>Site:</b>	Specialty 4 Pad	<b>MD Reference:</b>	KB @ 5797.00ft
<b>Well:</b>	Specialty 41B-28-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Compass VM

<b>Project</b>	Garfield County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		Specialty 4 Pad			
Site Position:		Northing:	1,615,043.39 usft	Latitude:	39.502050
From:	Lat/Long	Easting:	2,388,568.03 usft	Longitude:	-107.667050
Position Uncertainty:	0.00 ft	Slot Radius:	0.00 ft	Grid Convergence:	-1.37 °

Well	Specialty 41B-28-692					
Well Position	+N/-S	0.00 ft	Northing:	1,615,042.24 usft	Latitude:	39.502050
	+E/-W	0.00 ft	Easting:	2,388,615.98 usft	Longitude:	-107.666880
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,775.00 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	03/05/10	10.35	65.85	52,456

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	65.27	

<b>Survey Program</b>	<b>Date</b>	07/28/10			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
50.00	740.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
895.00	8,225.00	Surveys (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
740.00	0.45	204.41	739.99	0.39	1.13	1.19	0.00	0.00	0.00	
797.00	0.52	178.55	796.99	-0.07	1.05	0.92	0.40	0.13	-45.37	
<b>9 5/8"</b>										
895.00	0.80	153.60	894.98	-1.13	1.36	0.76	0.40	0.28	-25.46	
987.00	2.50	82.10	986.95	-1.43	3.63	2.70	2.58	1.85	-77.72	
1,083.00	4.50	75.60	1,082.76	-0.21	9.36	8.41	2.12	2.08	-6.77	
1,178.00	6.90	72.40	1,177.29	2.45	18.41	17.74	2.55	2.53	-3.37	
1,274.00	8.30	63.10	1,272.45	7.33	30.08	30.39	1.94	1.46	-9.69	
1,370.00	9.20	64.10	1,367.33	13.81	43.17	44.99	0.95	0.94	1.04	
1,465.00	10.80	68.10	1,460.88	20.45	58.26	61.47	1.84	1.68	4.21	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Specialty 41B-28-692
<b>Project:</b>	Garfield County, Colorado	<b>TVD Reference:</b>	KB @ 5797.00ft
<b>Site:</b>	Specialty 4 Pad	<b>MD Reference:</b>	KB @ 5797.00ft
<b>Well:</b>	Specialty 41B-28-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
1,560.00	11.20	68.40	1,554.14	27.17	75.10	79.57	0.43	0.42	0.32
1,656.00	10.60	57.20	1,648.41	35.38	91.19	97.63	2.29	-0.63	-11.67
1,751.00	9.90	59.80	1,741.90	44.23	105.59	114.41	0.88	-0.74	2.74
1,846.00	9.40	59.50	1,835.55	52.27	119.33	130.26	0.53	-0.53	-0.32
1,942.00	10.80	66.00	1,930.07	59.91	134.31	147.05	1.88	1.46	6.77
2,037.00	10.40	65.70	2,023.45	67.06	150.25	164.53	0.43	-0.42	-0.32
2,132.00	11.30	67.10	2,116.75	74.21	166.64	182.40	0.99	0.95	1.47
2,227.00	10.70	70.00	2,210.00	80.85	183.50	200.50	0.86	-0.63	3.05
2,322.00	12.20	69.30	2,303.11	87.41	201.18	219.30	1.59	1.58	-0.74
2,417.00	11.50	68.60	2,396.08	94.41	219.39	238.77	0.75	-0.74	-0.74
2,513.00	11.20	70.10	2,490.21	101.08	237.07	257.61	0.44	-0.31	1.56
2,608.00	11.30	64.80	2,583.38	108.18	254.16	276.11	1.09	0.11	-5.58
2,703.00	11.10	65.90	2,676.57	115.88	270.93	294.56	0.31	-0.21	1.16
2,799.00	12.00	64.50	2,770.63	123.95	288.38	313.78	0.98	0.94	-1.46
2,894.00	11.50	56.20	2,863.64	133.47	305.16	333.01	1.85	-0.53	-8.74
2,989.00	11.00	66.70	2,956.83	142.32	321.36	351.42	2.22	-0.53	11.05
3,085.00	10.10	68.20	3,051.21	149.07	337.58	368.99	0.98	-0.94	1.56
3,180.00	10.90	63.60	3,144.62	156.16	353.36	386.28	1.22	0.84	-4.84
3,275.00	10.90	63.30	3,237.90	164.19	369.43	404.24	0.06	0.00	-0.32
3,370.00	10.40	69.70	3,331.27	171.20	385.50	421.77	1.35	-0.53	6.74
3,466.00	11.60	67.50	3,425.50	177.90	402.54	440.05	1.32	1.25	-2.29
3,561.00	13.00	62.50	3,518.32	186.49	420.85	460.27	1.85	1.47	-5.26
3,656.00	12.60	61.60	3,610.96	196.35	439.44	481.28	0.47	-0.42	-0.95
3,751.00	12.40	62.10	3,703.71	206.05	457.57	501.81	0.24	-0.21	0.53
3,846.00	11.00	63.40	3,796.73	214.89	474.69	521.05	1.50	-1.47	1.37
3,942.00	10.30	65.30	3,891.08	222.57	490.68	538.79	0.82	-0.73	1.98
4,037.00	11.70	65.40	3,984.33	230.13	507.15	556.91	1.47	1.47	0.11
4,132.00	10.50	66.40	4,077.55	237.61	523.84	575.20	1.28	-1.26	1.05
4,227.00	11.20	68.40	4,170.85	244.47	540.35	593.07	0.84	0.74	2.11
4,323.00	10.10	68.50	4,265.20	250.99	556.85	610.78	1.15	-1.15	0.10
4,418.00	10.50	65.60	4,358.67	257.62	572.49	627.76	0.69	0.42	-3.05
4,513.00	10.80	61.90	4,452.03	265.39	588.22	645.30	0.79	0.32	-3.89
4,608.00	9.90	63.10	4,545.49	273.27	603.36	662.34	0.97	-0.95	1.26
4,704.00	8.20	58.10	4,640.29	280.62	616.53	677.38	1.95	-1.77	-5.21
4,799.00	6.50	65.60	4,734.51	286.43	627.18	689.48	2.05	-1.79	7.89
4,894.00	5.40	59.90	4,829.00	290.89	635.94	699.31	1.31	-1.16	-6.00
4,989.00	4.10	64.30	4,923.67	294.60	642.87	707.16	1.42	-1.37	4.63
5,084.00	2.90	59.90	5,018.49	297.28	648.01	712.95	1.29	-1.26	-4.63
5,179.00	1.90	60.60	5,113.40	299.26	651.46	716.91	1.05	-1.05	0.74
5,274.00	1.10	71.60	5,208.37	300.32	653.70	719.39	0.89	-0.84	11.58
5,369.00	0.90	127.20	5,303.36	300.16	655.16	720.64	1.00	-0.21	58.53
5,465.00	0.50	126.40	5,399.35	299.45	656.10	721.20	0.42	-0.42	-0.83
5,560.00	1.00	162.10	5,494.34	298.42	656.69	721.30	0.70	0.53	37.58

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Specialty 41B-28-692
<b>Project:</b>	Garfield County, Colorado	<b>TVD Reference:</b>	KB @ 5797.00ft
<b>Site:</b>	Specialty 4 Pad	<b>MD Reference:</b>	KB @ 5797.00ft
<b>Well:</b>	Specialty 41B-28-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
5,655.00	1.60	162.90	5,589.32	296.36	657.33	721.03	0.63	0.63	0.84
5,750.00	1.80	34.80	5,684.30	296.32	658.57	722.14	3.22	0.21	-134.84
5,846.00	1.10	45.00	5,780.27	298.21	660.08	724.30	0.77	-0.73	10.63
5,941.00	0.60	151.50	5,875.26	298.42	660.97	725.19	1.47	-0.53	112.11
6,036.00	1.70	52.20	5,970.25	298.84	662.32	726.59	1.99	1.16	-104.53
6,132.00	1.00	36.40	6,066.22	300.39	663.94	728.72	0.82	-0.73	-16.46
6,227.00	1.30	260.00	6,161.21	300.87	663.37	728.40	2.25	0.32	-143.58
6,367.00	2.10	227.60	6,301.15	298.87	659.91	724.42	0.87	0.57	-23.14
6,418.00	2.20	259.90	6,352.12	298.06	658.26	722.58	2.35	0.20	63.33
6,513.00	2.10	286.30	6,447.05	298.23	654.79	719.50	1.04	-0.11	27.79
6,608.00	2.10	331.00	6,542.00	300.24	652.28	718.06	1.68	0.00	47.05
6,703.00	2.00	287.40	6,636.94	302.26	649.85	716.70	1.61	-0.11	-45.89
6,799.00	1.70	347.30	6,732.90	304.15	647.94	715.76	1.94	-0.31	62.40
6,894.00	2.50	20.80	6,827.84	307.46	648.37	717.53	1.51	0.84	35.26
6,989.00	2.50	31.40	6,922.75	311.17	650.18	720.73	0.49	0.00	11.16
7,084.00	1.80	51.40	7,017.68	313.87	652.43	723.90	1.07	-0.74	21.05
7,180.00	1.50	76.70	7,113.64	315.10	654.83	726.59	0.81	-0.31	26.35
7,275.00	1.40	94.40	7,208.61	315.30	657.20	728.82	0.48	-0.11	18.63
7,370.00	1.20	136.80	7,303.59	314.48	659.03	730.15	1.01	-0.21	44.63
7,466.00	1.80	156.90	7,399.56	312.36	660.31	730.43	0.82	0.63	20.94
7,561.00	2.40	158.00	7,494.49	309.15	661.64	730.29	0.63	0.63	1.16
7,656.00	1.10	223.80	7,589.45	306.64	661.76	729.35	2.31	-1.37	69.26
7,751.00	1.60	202.90	7,684.43	304.76	660.61	727.52	0.73	0.53	-22.00
7,847.00	2.00	198.90	7,780.38	301.94	659.55	725.37	0.44	0.42	-4.17
7,942.00	2.90	183.70	7,875.29	297.98	658.85	723.09	1.16	0.95	-16.00
8,037.00	3.10	183.10	7,970.16	293.01	658.56	720.74	0.21	0.21	-0.63
8,132.00	3.30	182.50	8,065.02	287.72	658.30	718.29	0.21	0.21	-0.63
8,180.00	3.10	180.60	8,112.94	285.04	658.23	717.11	0.47	-0.42	-3.96
8,225.00	3.10	180.60	8,157.87	282.61	658.20	716.06	0.00	0.00	0.00

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
797.00	796.99	9 5/8"	0.80	1.02

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,799.00	6,732.90	304.15	647.94	As of July 26
8,225.00	8,157.87	282.61	658.20	Proj to TD @ 8225' MD

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Specialty 41B-28-692
<b>Project:</b>	Garfield County, Colorado	<b>TVD Reference:</b>	KB @ 5797.00ft
<b>Site:</b>	Specialty 4 Pad	<b>MD Reference:</b>	KB @ 5797.00ft
<b>Well:</b>	Specialty 41B-28-692	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Compass VM

Checked By: _____	Approved By: _____	Date: _____
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<b>SDI Job #:</b>	20100720	<b>Report Time:</b>	2400	1 of 4
<b>COMPANY:</b>	Bill Barrett Corp.	<b>API JOB #</b>		
<b>LOCATION:</b>	RIFLE	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	PATTERSON 301	<b>FIELD:</b>	MAMM CREEK	
<b>STATE:</b>	COLORADO	<b>Sec-Twn-Rng:</b>		
<b>COUNTY:</b>	GARFIELD	<b>AFE# &amp; District</b>		
<b>WELL NAME:</b>	Specialty 41B-28-692			

From Friday, July 23, 2010 at 0000 to Friday, July 23, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	818.00	Rotary Hours	7.13	WOB	10	Pick UP	115	Slack Off	105	SPM	
End Depth	2676.00	Circulating Hours	0.50	RAB	110	SPP	2100	FlowRate	0 - 523	140	
Total Drilled:	1858.00	Avg. Total ROP:	195.92	Mud Data							
Total Rotary Drilled:	1660.00	Avg. Rotary ROP:	232.71	Type				PV	0	SOLID	0
Total Drilled Sliding:	198.00	Avg. Slide ROP:	84.26	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	2.35	Percent Rotary:	89.34	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	13.00	Percent Slide:	10.66	Chlorides	0	WL	0			Oil %	0
PERSONNEL				Casing				BHA			
Lead Directional :	Michael Crawford			Size	Lb/ft	Set Depth		BHA # 1:8.75, 5x15, Hunting, 6.75, .24rpg, UBHO, NMDC, GAP SUB, NMDC, HWDP,			
Second Directional :	Joe Jones			Signature:							
MWD Operator1	James Hope										
MWD Operator2											
Directional Company:	Sharewell										
Geologist:											
Company Man:	Doug Miller										
Incl. In:	0	Azm. In:	0	Incl. Out:	11.3	Azm. Out:	64.8				

#### GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-Jul-10	11:00	12:00	1.00	818	818	Change BHA	P/U Dir. Tools
23-Jul-10	12:00	12:45	0.75	818	818	TIH	TIH
23-Jul-10	12:45	13:30	0.75	818	818	Drilling Cement	TIH
23-Jul-10	13:30	14:10	0.67	818	940	Drilling	Drilling: WOB 10, GPM 600, RPM 45
23-Jul-10	14:10	14:14	0.07	940	940	Survey & Conn.	Survey & Conn.
23-Jul-10	14:14	14:30	0.27	940	965	Sliding	Sliding: WOB 15, GPM 600, TFO 70
23-Jul-10	14:30	14:49	0.32	965	1032	Drilling	Drilling - (WOB:10;GPM :0;RPM:45)
23-Jul-10	14:49	14:53	0.07	1032	1032	Survey & Conn.	Survey & Conn.
23-Jul-10	14:53	15:04	0.18	1032	1052	Sliding	Sliding - (WOB:10;GPM :0;TFO:0)
23-Jul-10	15:04	15:21	0.28	1052	1128	Drilling	Drilling - (WOB:10;GPM :0;RPM:45)
23-Jul-10	15:21	15:25	0.07	1128	1128	Survey & Conn.	Survey & Conn.
23-Jul-10	15:25	15:35	0.17	1128	1148	Sliding	Sliding - (WOB:10;GPM :0;TFO:0)
23-Jul-10	15:35	15:54	0.32	1148	1223	Drilling	Drilling - (WOB:10;GPM :0;RPM:45)
23-Jul-10	15:54	15:58	0.07	1223	1223	Survey & Conn.	Survey & Conn.
23-Jul-10	15:58	16:09	0.18	1223	1243	Sliding	Sliding - (WOB:10;GPM :0;TFO:0)
23-Jul-10	16:09	16:25	0.27	1243	1319	Drilling	Drilling - (WOB:10;GPM :0;RPM:45)
23-Jul-10	16:25	16:29	0.07	1319	1319	Survey & Conn.	Survey & Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-Jul-10	16:29	16:40	0.18	1319	1329	Sliding	Sliding - (WOB:10;GPM :0;TFO:0)
23-Jul-10	16:40	17:00	0.33	1329	1415	Drilling	Drilling - (WOB:10;GPM :0;RPM:45)
23-Jul-10	17:00	17:05	0.08	1415	1415	Survey & Conn.	Survey & Conn.
23-Jul-10	17:05	17:35	0.50	1415	1415	Rig Service-Inhole	Rig Service-Inhole
23-Jul-10	17:35	17:45	0.17	1415	1435	Sliding	Sliding - (WOB:10;GPM :0;TFO:0)
23-Jul-10	17:45	18:00	0.25	1435	1510	Drilling	Drilling - (WOB:10;GPM :0;RPM:45)
23-Jul-10	18:00	18:04	0.07	1510	1510	Survey & Conn.	Survey & Conn.
23-Jul-10	18:04	18:29	0.42	1510	1605	Drilling	Drilling - (WOB:10;GPM :0;RPM:45)
23-Jul-10	18:29	18:33	0.07	1605	1605	Survey & Conn.	Survey & Conn.
23-Jul-10	18:33	18:49	0.27	1605	1620	Sliding	Sliding - (WOB:10;GPM :0;TFO:0)
23-Jul-10	18:49	19:11	0.37	1620	1701	Drilling	Drilling - (WOB:10;GPM :523;RPM:55)
23-Jul-10	19:11	19:15	0.07	1701	1701	Survey & Conn.	Survey & Conn.
23-Jul-10	19:15	19:42	0.45	1701	1796	Drilling	Drilling - (WOB:10;GPM :523;RPM:55)
23-Jul-10	19:42	19:46	0.07	1796	1796	Survey & Conn.	Survey & Conn.
23-Jul-10	19:46	20:08	0.37	1796	1891	Drilling	Drilling - (WOB:10;GPM :523;RPM:55)
23-Jul-10	20:08	20:12	0.07	1891	1891	Survey & Conn.	Survey & Conn.
23-Jul-10	20:12	20:32	0.33	1891	1911	Sliding	Sliding - (WOB:10;GPM :523;TFO:-120)
23-Jul-10	20:32	20:47	0.25	1911	1987	Drilling	Drilling - (WOB:10;GPM :523;RPM:55)
23-Jul-10	20:47	20:51	0.07	1987	1987	Survey & Conn.	Survey & Conn.
23-Jul-10	20:51	21:13	0.37	1987	2082	Drilling	Drilling - (WOB:10;GPM :523;RPM:55)
23-Jul-10	21:13	21:17	0.07	2082	2082	Survey & Conn.	Survey & Conn.
23-Jul-10	21:17	21:31	0.23	2082	2097	Sliding	Sliding - (WOB:10;GPM :523;TFO:30)
23-Jul-10	21:31	21:50	0.32	2097	2177	Drilling	Drilling - (WOB:10;GPM :523;RPM:55)
23-Jul-10	21:50	21:54	0.07	2177	2177	Survey & Conn.	Survey & Conn.
23-Jul-10	21:54	22:12	0.30	2177	2272	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
23-Jul-10	22:12	22:16	0.07	2272	2272	Survey & Conn.	Survey & Conn.
23-Jul-10	22:16	22:27	0.18	2272	2290	Sliding	Sliding - (WOB:10;GPM :523;TFO:30)
23-Jul-10	22:27	22:41	0.23	2290	2367	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
23-Jul-10	22:41	22:45	0.07	2367	2367	Survey & Conn.	Survey & Conn.
23-Jul-10	22:45	23:03	0.30	2367	2462	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
23-Jul-10	23:03	23:07	0.07	2462	2462	Survey & Conn.	Survey & Conn.
23-Jul-10	23:07	23:23	0.27	2462	2558	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
23-Jul-10	23:23	23:27	0.07	2558	2558	Survey & Conn.	Survey & Conn.
23-Jul-10	23:27	23:38	0.18	2558	2573	Sliding	Sliding - (WOB:10;GPM :523;TFO:30)
23-Jul-10	23:38	23:53	0.25	2573	2653	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
23-Jul-10	23:53	23:56	0.05	2653	2653	Survey & Conn.	Survey & Conn.
23-Jul-10	23:56	24:00	0.07	2653	2676	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)



<b>SDI Job #:</b>	20100720	<b>Report Time:</b>	2400	2 of 4
<b>COMPANY:</b>	Bill Barrett Corp.	<b>API JOB #</b>		
<b>LOCATION:</b>	RIFLE	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	PATTERSON 301	<b>FIELD:</b>	MAMM CREEK	
<b>STATE:</b>	COLORADO	<b>Sec-Twn-Rng:</b>		
<b>COUNTY:</b>	GARFIELD	<b>AFE# &amp; District</b>		
<b>WELL NAME:</b>	Specialty 41B-28-692			

From Saturday, July 24, 2010 at 0000 to Saturday, July 24, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	2676.00	Rotary Hours	9.38	WOB	20	Pick UP	150	Slack Off	120	SPM	
End Depth	4939.00	Circulating Hours	0.00	RAB	130	SPP	2500	FlowRate	523 - 627	150	
Total Drilled:	2263.00	Avg. Total ROP:	172.31	Mud Data							
Total Rotary Drilled:	2049.00	Avg. Rotary ROP:	218.37	Type		PV	0	SOLID	0		
Total Drilled Sliding:	214.00	Avg. Slide ROP:	57.07	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	3.75	Percent Rotary:	90.54	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	9.46	Chlorides	0	WL	0			Oil %	0
PERSONNEL				Casing			BHA				
Lead Directional :	Michael Crawford			Size	Lb/ft	Set Depth	BHA # 2:FXD56M 5x16, Hunting, 6.75, .24rpg, UBHO, NMDC, GAP SUB, NMDC, HWDP,				
Second Directional :	Joe Jones										
MWD Operator1	James Hope										
MWD Operator2											
Directional Company:	Sharewell										
Geologist:											
Company Man:	Doug Miller			Signature:							
Incl. In:	11.3	Azm. In:	64.8	Incl. Out:	6.5	Azm. Out:	65.6				

#### GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-Jul-10	00:00	00:13	0.22	2676	2748	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	00:13	00:16	0.05	2748	2748	Survey & Conn.	Survey & Conn.
24-Jul-10	00:16	00:25	0.15	2748	2763	Sliding	Sliding - (WOB:10;GPM :523;TFO:-60)
24-Jul-10	00:25	00:40	0.25	2763	2844	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	00:40	00:43	0.05	2844	2844	Survey & Conn.	Survey & Conn.
24-Jul-10	00:43	01:06	0.38	2844	2939	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	01:06	01:10	0.07	2939	2939	Survey & Conn.	Survey & Conn.
24-Jul-10	01:10	01:30	0.33	2939	3034	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	01:30	01:34	0.07	3034	3034	Survey & Conn.	Survey & Conn.
24-Jul-10	01:34	01:54	0.33	3034	3130	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	01:54	01:58	0.07	3130	3130	Survey & Conn.	Survey & Conn.
24-Jul-10	01:58	02:10	0.20	3130	3148	Sliding	Sliding - (WOB:10;GPM :523;TFO:-20)
24-Jul-10	02:10	02:26	0.27	3148	3225	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	02:26	02:29	0.05	3225	3225	Survey & Conn.	Survey & Conn.
24-Jul-10	02:29	02:51	0.37	3225	3320	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	02:51	02:55	0.07	3320	3320	Survey & Conn.	Survey & Conn.
24-Jul-10	02:55	03:05	0.17	3320	3338	Sliding	Sliding - (WOB:10;GPM :523;TFO:-40)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-Jul-10	03:05	03:26	0.35	3338	3415	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	03:26	03:30	0.07	3415	3415	Survey & Conn.	Survey & Conn.
24-Jul-10	03:30	03:48	0.30	3415	3435	Sliding	Sliding - (WOB:10;GPM :523;TFO:0)
24-Jul-10	03:48	04:02	0.23	3435	3511	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	04:02	04:06	0.07	3511	3511	Survey & Conn.	Survey & Conn.
24-Jul-10	04:06	04:19	0.22	3511	3529	Sliding	Sliding - (WOB:10;GPM :523;TFO:0)
24-Jul-10	04:19	04:33	0.23	3529	3606	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	04:33	04:37	0.07	3606	3606	Survey & Conn.	Survey & Conn.
24-Jul-10	04:37	05:01	0.40	3606	3701	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	05:01	05:04	0.05	3701	3701	Survey & Conn.	Survey & Conn.
24-Jul-10	05:04	05:41	0.62	3701	3796	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	05:41	05:44	0.05	3796	3796	Survey & Conn.	Survey & Conn.
24-Jul-10	05:44	06:30	0.77	3796	3891	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	06:30	06:35	0.08	3891	3891	Survey & Conn.	Survey & Conn.
24-Jul-10	06:35	07:05	0.50	3891	3902	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	07:05	10:00	2.92	3902	3902	POOH	POOH
24-Jul-10	10:00	10:10	0.17	3902	3902	Change BHA	Change BHA
24-Jul-10	10:10	16:20	6.17	3902	3902	TIH	TIH & C/O 60 Jts D.P.
24-Jul-10	16:20	16:46	0.43	3902	3987	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	18:27	18:49	0.37	4177	4195	Sliding	Sliding - (WOB:10;GPM :523;TFO:0)
24-Jul-10	18:49	19:09	0.33	4195	4272	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	19:09	19:14	0.08	4272	4272	Survey & Conn.	Survey & Conn.
24-Jul-10	19:14	19:37	0.38	4272	4368	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	19:37	19:42	0.08	4368	4368	Survey & Conn.	Survey & Conn.
24-Jul-10	19:42	20:00	0.30	4368	4388	Sliding	Sliding - (WOB:10;GPM :523;TFO:0)
24-Jul-10	20:00	20:18	0.30	4388	4463	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	20:18	20:23	0.08	4463	4463	Survey & Conn.	Survey & Conn.
24-Jul-10	20:23	20:44	0.35	4463	4481	Sliding	Sliding - (WOB:10;GPM :523;TFO:-40)
24-Jul-10	20:44	21:03	0.32	4481	4558	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	21:03	21:08	0.08	4558	4558	Survey & Conn.	Survey & Conn.
24-Jul-10	21:08	21:32	0.40	4558	4653	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	21:32	21:37	0.08	4653	4653	Survey & Conn.	Survey & Conn.
24-Jul-10	21:37	21:57	0.33	4653	4668	Sliding	Sliding - (WOB:10;GPM :523;TFO:-40)
24-Jul-10	21:57	22:20	0.38	4668	4749	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	22:20	22:25	0.08	4749	4749	Survey & Conn.	Survey & Conn.
24-Jul-10	22:25	22:48	0.38	4749	4768	Sliding	Sliding - (WOB:10;GPM :523;TFO:-130)
24-Jul-10	22:48	23:09	0.35	4768	4844	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	16:46	16:50	0.07	3987	3987	Survey & Conn.	Survey & Conn.
24-Jul-10	16:50	17:22	0.53	3987	4007	Sliding	Sliding - (WOB:10;GPM :523;TFO:-40)
24-Jul-10	17:22	17:40	0.30	4007	4082	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	17:40	17:45	0.08	4082	4082	Survey & Conn.	Survey & Conn.
24-Jul-10	17:45	18:22	0.62	4082	4177	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)
24-Jul-10	18:22	18:27	0.08	4177	4177	Survey & Conn.	Survey & Conn.
24-Jul-10	23:09	23:14	0.08	4844	4844	Survey & Conn.	Survey & Conn.
24-Jul-10	23:14	23:41	0.45	4844	4859	Sliding	Sliding - (WOB:10;GPM :523;TFO:150)
24-Jul-10	23:41	24:00	0.32	4859	4939	Drilling	Drilling - (WOB:10;GPM :523;RPM:50)



<b>SDI Job #:</b>	20100720	<b>Report Time:</b>	2400	3 of 4
<b>COMPANY:</b>	Bill Barrett Corp.	<b>API JOB #</b>		
<b>LOCATION:</b>	RIFLE	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	PATTERSON 301	<b>FIELD:</b>	MAMM CREEK	
<b>STATE:</b>	COLORADO	<b>Sec-Twn-Rng:</b>		
<b>COUNTY:</b>	GARFIELD	<b>AFE# &amp; District</b>		
<b>WELL NAME:</b>	Specialty 41B-28-692			

From Sunday, July 25, 2010 at 0000 to Sunday, July 25, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	4939.00	Rotary Hours	8.20	WOB	20	Pick UP	185	Slack Off	130	SPM	
End Depth	6272.00	Circulating Hours	0.00	RAB	160	SPP	2325	FlowRate	545 - 627	130	
Total Drilled:	1333.00	Avg. Total ROP:	113.61	Mud Data							
Total Rotary Drilled:	1175.00	Avg. Rotary ROP:	143.29	Type				PV	0	SOLID	0
Total Drilled Sliding:	158.00	Avg. Slide ROP:	44.72	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	3.53	Percent Rotary:	88.15	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	11.85	Chlorides	0	WL	0			Oil %	0
PERSONNEL				Casing				BHA			
Lead Directional :	Michael Crawford			Size	Lb/ft	Set Depth	BHA # 3:7 7/8 5x16-FX55M, Hunting, 6.5,. 16rpg, UBHO, NMDC, GAP SUB, NMDC, HWDP,				
Second Directional :	Joe Jones			Signature:							
MWD Operator1	James Hope										
MWD Operator2											
Directional Company:	Sharewell										
Geologist:											
Company Man:	Doug Miller										
Incl. In:	6.5	Azm. In:	65.6	Incl. Out:	1	Azm. Out:	36.4				

#### GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-Jul-10	00:00	00:05	0.08	4939	4939	Survey & Conn.	Survey & Conn.
25-Jul-10	00:05	00:31	0.43	4939	4954	Sliding	Sliding - (WOB:20;GPM :627;TFO:150)
25-Jul-10	00:31	01:00	0.48	4954	5034	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	01:00	01:05	0.08	5034	5034	Survey & Conn.	Survey & Conn.
25-Jul-10	01:05	01:30	0.42	5034	5052	Sliding	Sliding - (WOB:20;GPM :627;TFO:180)
25-Jul-10	01:30	02:05	0.58	5052	5129	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	02:05	02:10	0.08	5129	5129	Survey & Conn.	Survey & Conn.
25-Jul-10	02:10	02:54	0.73	5129	5224	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	02:54	02:59	0.08	5224	5224	Survey & Conn.	Survey & Conn.
25-Jul-10	02:59	03:43	0.73	5224	5319	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	03:43	03:48	0.08	5319	5319	Survey & Conn.	Survey & Conn.
25-Jul-10	03:48	04:24	0.60	5319	5414	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	04:24	04:29	0.08	5414	5414	Survey & Conn.	Survey & Conn.
25-Jul-10	04:29	05:11	0.70	5414	5432	Sliding	Sliding - (WOB:20;GPM :627;TFO:-160)
25-Jul-10	05:11	05:43	0.53	5432	5510	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	05:43	05:47	0.07	5510	5510	Survey & Conn.	Survey & Conn.
25-Jul-10	05:47	06:45	0.97	5510	5605	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-Jul-10	06:45	06:49	0.07	5605	5605	Survey & Conn.	Survey & Conn.
25-Jul-10	06:49	07:30	0.68	5605	5638	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	07:30	08:00	0.50	5638	5638	Rig repair	Rig repair
25-Jul-10	08:00	13:10	5.17	5638	5638	POOH	POOH
25-Jul-10	13:10	14:10	1.00	5638	5638	Change BHA	Change BHA
25-Jul-10	14:10	17:45	3.58	5638	5638	TIH	TIH
25-Jul-10	17:45	18:13	0.47	5638	5700	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	18:13	18:18	0.08	5700	5700	Survey & Conn.	Survey & Conn.
25-Jul-10	18:18	18:50	0.53	5700	5730	Sliding	Sliding - (WOB:20;GPM :627;TFO:40)
25-Jul-10	18:50	19:10	0.33	5730	5795	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	19:10	19:15	0.08	5795	5795	Survey & Conn.	Survey & Conn.
25-Jul-10	19:15	19:47	0.53	5795	5897	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	19:47	19:52	0.08	5897	5897	Survey & Conn.	Survey & Conn.
25-Jul-10	19:52	20:08	0.27	5897	5909	Sliding	Sliding - (WOB:20;GPM :627;TFO:0)
25-Jul-10	20:08	20:30	0.37	5909	5986	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	20:30	20:35	0.08	5986	5986	Survey & Conn.	Survey & Conn.
25-Jul-10	20:35	21:08	0.55	5986	6011	Sliding	Sliding - (WOB:20;GPM :627;TFO:270)
25-Jul-10	21:08	21:32	0.40	6011	6081	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	21:32	22:25	0.88	6081	6081	Rig repair	Rig repair
25-Jul-10	22:25	22:30	0.08	6081	6081	Survey & Conn.	Survey & Conn.
25-Jul-10	22:30	22:50	0.33	6081	6101	Sliding	Sliding - (WOB:20;GPM :627;TFO:20)
25-Jul-10	22:50	23:13	0.38	6101	6177	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)
25-Jul-10	23:13	23:18	0.08	6177	6177	Survey & Conn.	Survey & Conn.
25-Jul-10	23:18	23:36	0.30	6177	6197	Sliding	Sliding - (WOB:20;GPM :627;TFO:300)
25-Jul-10	23:36	24:00	0.40	6197	6272	Drilling	Drilling - (WOB:20;GPM :627;RPM:50)





Bill Barrett Corporation

<b>SDI Job #:</b>	20100720	<b>Report Time:</b>	2400	4 of 4
<b>COMPANY:</b>	Bill Barrett Corp.	<b>API JOB #</b>		
<b>LOCATION:</b>	RIFLE	<b>WORK ORDER#</b>		
<b>RIG NAME:</b>	PATTERSON 301	<b>FIELD:</b>	MAMM CREEK	
<b>STATE:</b>	COLORADO	<b>Sec-Twn-Rng:</b>		
<b>COUNTY:</b>	GARFIELD	<b>AFE# &amp; District</b>		
<b>WELL NAME:</b>	Specialty 41B-28-692			

From Monday, July 26, 2010 at 0000 to Monday, July 26, 2010 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	6272.00	Rotary Hours	15.97	WOB	20	Pick UP	185	Slack Off	130	SPM	
End Depth	8272.00	Circulating Hours	0.78	RAB	160	SPP	2325	FlowRate	545 - 545	130	
Total Drilled:	2000.00	Avg. Total ROP:	102.92	Mud Data							
Total Rotary Drilled:	1797.00	Avg. Rotary ROP:	112.55	Type				PV	0	SOLID	0
Total Drilled Sliding:	203.00	Avg. Slide ROP:	58.56	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	3.47	Percent Rotary:	89.85	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	10.15	Chlorides	0	WL	0			Oil %	0
PERSONNEL				Casing					BHA		
Lead Directional :	Michael Crawford			Size	Lb/ft	Set Depth		BHA # 3:7 7/8 5x16-FX55M, Hunting, 6.5,. 16rpg, UBHO, NMDC, GAP SUB, NMDC, HWDP,			
Second Directional :	Joe Jones			Signature:							
MWD Operator1	James Hope										
MWD Operator2											
Directional Company:	Sharewell										
Geologist:											
Company Man:	Doug Miller										
Incl. In:	1	Azm. In:	36.4	Incl. Out:	3.1	Azm. Out:	180.6				

## GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-Jul-10	00:00	00:05	0.08	6272	6272	Survey & Conn.	Survey & Conn.
26-Jul-10	00:05	00:32	0.45	6272	6367	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	00:32	00:37	0.08	6367	6367	Survey & Conn.	Survey & Conn.
26-Jul-10	00:37	01:03	0.43	6367	6392	Sliding	Sliding - (WOB:20;GPM :545;TFO:310)
26-Jul-10	01:03	01:21	0.30	6392	6463	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	01:21	01:26	0.08	6463	6463	Survey & Conn.	Survey & Conn.
26-Jul-10	01:26	02:00	0.57	6463	6493	Sliding	Sliding - (WOB:20;GPM :545;TFO:0)
26-Jul-10	02:00	02:24	0.40	6493	6558	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	02:24	02:29	0.08	6558	6558	Survey & Conn.	Survey & Conn.
26-Jul-10	02:29	03:00	0.52	6558	6588	Sliding	Sliding - (WOB:20;GPM :545;TFO:30)
26-Jul-10	03:00	03:26	0.43	6588	6653	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	03:26	03:31	0.08	6653	6653	Survey & Conn.	Survey & Conn.
26-Jul-10	03:31	03:51	0.33	6653	6683	Sliding	Sliding - (WOB:20;GPM :545;TFO:30)
26-Jul-10	03:51	04:11	0.33	6683	6748	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	04:11	04:16	0.08	6748	6748	Survey & Conn.	Survey & Conn.
26-Jul-10	04:16	04:47	0.52	6748	6778	Sliding	Sliding - (WOB:20;GPM :545;TFO:60)
26-Jul-10	04:47	05:15	0.47	6778	6844	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-Jul-10	05:15	05:20	0.08	6844	6844	Survey & Conn.	Survey & Conn.
26-Jul-10	05:20	05:39	0.32	6844	6862	Sliding	Sliding - (WOB:20;GPM :545;TFO:30)
26-Jul-10	05:39	06:04	0.42	6862	6939	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	06:04	06:09	0.08	6939	6939	Survey & Conn.	Survey & Conn.
26-Jul-10	06:09	06:30	0.35	6939	6957	Sliding	Sliding - (WOB:20;GPM :545;TFO:60)
26-Jul-10	06:30	07:01	0.52	6957	7034	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	07:01	07:06	0.08	7034	7034	Survey & Conn.	Survey & Conn.
26-Jul-10	07:06	08:00	0.90	7034	7129	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	08:00	08:05	0.08	7129	7129	Survey & Conn.	Survey & Conn.
26-Jul-10	08:05	08:59	0.90	7129	7225	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	08:59	09:05	0.10	7225	7225	Survey & Conn.	Survey & Conn.
26-Jul-10	09:05	10:05	1.00	7225	7320	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	10:05	10:10	0.08	7320	7320	Survey & Conn.	Survey & Conn.
26-Jul-10	16:35	16:40	0.08	7892	7892	Survey & Conn.	Survey & Conn.
26-Jul-10	16:40	17:48	1.13	7892	7987	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	17:48	17:53	0.08	7987	7987	Survey & Conn.	Survey & Conn.
26-Jul-10	17:53	19:12	1.32	7987	8082	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	19:12	19:17	0.08	8082	8082	Survey & Conn.	Survey & Conn.
26-Jul-10	19:17	20:36	1.32	8082	8177	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	20:36	20:41	0.08	8177	8177	Survey & Conn.	Survey & Conn.
26-Jul-10	20:41	21:11	0.50	8177	8272	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	21:11	21:13	0.03	8272	8272	Survey & Conn.	Survey
26-Jul-10	21:13	22:00	0.78	8272	8272	Circulating	Circulating
26-Jul-10	22:00	24:00	2.00	8272	8272	POOH	POOH, to lay down tools.
26-Jul-10	10:10	11:00	0.83	7320	7415	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	11:00	11:05	0.08	7415	7415	Survey & Conn.	Survey & Conn.
26-Jul-10	11:05	11:49	0.73	7415	7511	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	11:49	11:54	0.08	7511	7511	Survey & Conn.	Survey & Conn.
26-Jul-10	11:54	12:30	0.60	7511	7606	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	12:30	12:34	0.07	7606	7606	Survey & Conn.	Survey & Conn.
26-Jul-10	12:34	13:00	0.43	7606	7628	Sliding	Sliding - (WOB:20;GPM :545;TFO:60)
26-Jul-10	13:00	13:30	0.50	7628	7701	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	13:30	13:35	0.08	7701	7701	Survey & Conn.	Survey & Conn.
26-Jul-10	13:35	14:45	1.17	7701	7796	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)
26-Jul-10	14:45	14:50	0.08	7796	7796	Survey & Conn.	Survey & Conn.
26-Jul-10	14:50	16:35	1.75	7796	7892	Drilling	Drilling - (WOB:20;GPM :545;RPM:50)



# Well Information

**BHA #** 1



**SDI Job #:** 20100720  
**COMPANY:** Bill Barrett Corp.  
**LOCATION:** RIFLE  
**RIG NAME:** PATTERSON 301  
**STATE:** COLORADO  
**COUNTY:** GARFIELD  
**WELL NAME:** Specialty 41B-28-692

**FIELD:** MAMM CREEK  
**Sec-Twn-Rng:**  
**PO #/ DISTRICT**  
**Lead DD:** Michael Crawford  
**Co. Man:** Doug Miller  
**BHA TYPE:** Steerable Assembly

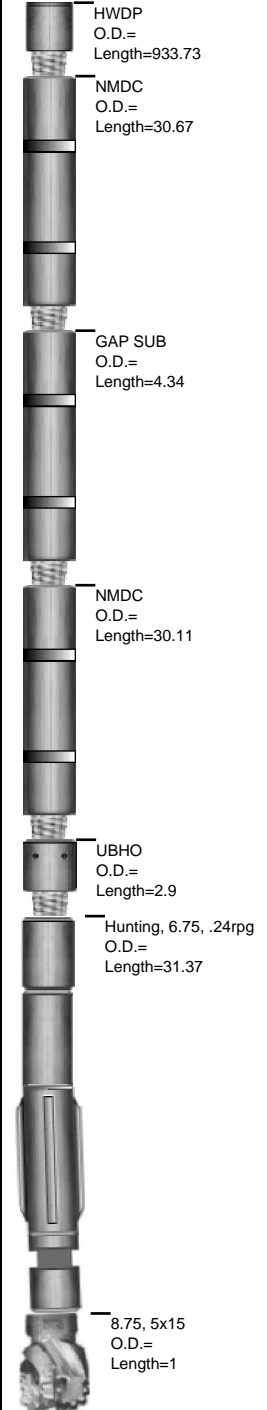
## BHA Summary Information

TIME IN - OUT		Rotary Hours		12.38		Start Depth		818.00		RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		16.27 / .50		End Depth		3902.00			
23-Jul-10 @ 12:00	24-Jul-10 @ 10:10	Slide Hours		3.38		Percent Rotary:		90.69		0 -50	0 -523
		Below Rotary Hrs.		22.17		Percent Slide:		9.31			
Total Drilled:		3084.00		Avg. Total ROP:		195.60		Incl.		Azimuth	
Total Rotary Drilled:		2797.00		Avg. Rotary ROP:		225.87		IN	OUT	IN	OUT
Total Drilled Sliding:		287.00		Avg. Slide ROP:		84.83		.0	.0	.00	.00
SPP	0 -2100	Weights	SO	0 -105	PU	0 -115	RAB	0 -110	Reason POOH		

Bit Data							Motor Data					Mud Data				
PDC		8.75, 5x15					Hunting 1.83					Type				
Type Bit				PDC			Model: Max Torque			Pad OD		WT 0 GAS 0 Solids 0				
TFA		0.862					MFG. Hunting			7.04		Vis 0 SAND 0 T ° 0				
JETS		15	15	15	15	15	Bend ° 1.83		Stator/Rotor 7/8		PV 0 PH 0 Chlor 0					
		0	0	0	0	0	Bit to Bend 6.21		Motor Diff		YP 0 WL 0 Oil % 0					
Bit Coding			IADC#		519		Rev/GAL 0.24						BHT° 0			
IR	OR	DL	Loc	BS	G	ODL	NB Stab 0		Pumps		PUMP1		PUMP1			
							Rotor Jet 0		NAME							
0	0								Model							
Bit Drop:		0 PSI @ 523 GPM					Sensor Offsets			Type						
Comments				Sensor	45	Sonic	0	Liner				.00		.00		
				Gamma	0	DNSC	0	Stroke				.00		.00		
				Restiv	0	GYRO	0	Efficiency				.00		.00		

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	8.75, 5x15	SO7278			1.00	1.00	4 1/2 REGP
2	Hunting, 6.75, .24rpg	2226			31.37	32.37	4 1/2 XHB
3	UBHO	12345			2.90	35.27	4 1/2 XHB
4	NMDC	650300314			30.11	65.38	4 1/2 XHB
5	GAP SUB	650001			4.34	69.72	4 1/2 XHB
6	NMDC	650300061			30.67	100.39	4 1/2 XHB
7	HWDP	RIG			933.73	1034.12	4 1/2 XHB



# Well Information

**BHA #** 2



**SDI Job #:** 20100720  
**COMPANY:** Bill Barrett Corp.  
**LOCATION:** RIFLE  
**RIG NAME:** PATTERSON 301  
**STATE:** COLORADO  
**COUNTY:** GARFIELD  
**WELL NAME:** Specialty 41B-28-692

**FIELD:** MAMM CREEK  
**Sec-Twn-Rng:**  
**PO #/ DISTRICT**  
**Lead DD:** Michael Crawford  
**Co. Man:** Doug Miller  
**BHA TYPE:** Steerable Assembly

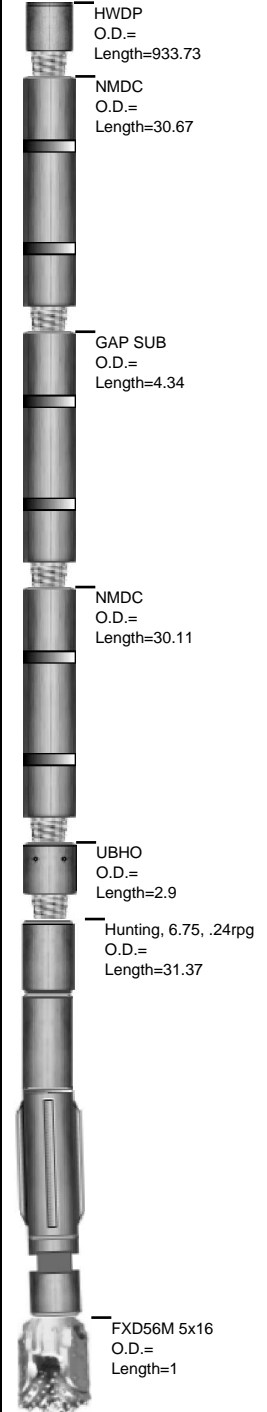
## BHA Summary Information

TIME IN - OUT		Rotary Hours		9.45		Start Depth		3902.00		RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		13.72 / .00		End Depth		5638.00			
24-Jul-10 @ 10:10	25-Jul-10 @ 14:10	Slide Hours		4.27		Percent Rotary:		89.86		50 -50	523 -627
		Below Rotary Hrs.		28.00		Percent Slide:		10.14			
Total Drilled:		1736.00		Avg. Total ROP:		126.56		Incl.		Azimuth	
Total Rotary Drilled:		1560.00		Avg. Rotary ROP:		165.08		IN	OUT	IN	OUT
Total Drilled Sliding:		176.00		Avg. Slide ROP:		41.25		.0	.0	.00	.00
SPP	2100 -2500	Weights	SO	105 -120	PU	115 -150	RAB	110 -130	Reason POOH		

Bit Data				Motor Data				Mud Data			
FXD56M 5x16				Hunting 1.83				Type			
<b>Type Bit</b>		PDC		Model: Max Torque		Pad OD		WT	0	GAS	0
TFA	0.981			MFG.	Hunting	7.04		Vis	0	SAND	0
JETS	16	16	16	Bend °	1.83	Stator/Rotor	7/8	PV	0	PH	0
	0	0	0	Bit to Bend	6.21	Motor Diff		YP	0	WL	0
<b>Bit Coding</b>		IADC#	56	Rev/GAL	0.24			<b>BHT°</b>		0	
IR	OR	DL	Loc	BS	G	ODL	NB Stab	<b>Pumps</b>		PUMP1	PUMP1
0	0						Rotor Jet	<b>NAME</b>			
<b>Bit Drop:</b>		0 PSI @ 627 GPM		<b>Sensor Offsets</b>		<b>Type</b>					
<b>Comments</b>		Sensor	45	Sonic	0	<b>Liner</b>					
		Gamma	0	DNCS	0	<b>Stroke</b>					
		Restiv	0	GYRO	0	<b>Efficiency</b>					

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	FXD56M 5x16	11544983			1.00	1.00	4 1/2 REGP
2	Hunting, 6.75, .24rpg	2226			31.37	32.37	4 1/2 XHB
3	UBHO	12345			2.90	35.27	4 1/2 XHB
4	NMDC	650300314			30.11	65.38	4 1/2 XHB
5	GAP SUB	650001			4.34	69.72	4 1/2 XHB
6	NMDC	650300061			30.67	100.39	4 1/2 XHB
7	HWDP	RIG			933.73	1034.12	4 1/2 XHB



# Well Information

**BHA #** 3



**SDI Job #:** 20100720  
**COMPANY:** Bill Barrett Corp.  
**LOCATION:** RIFLE  
**RIG NAME:** PATTERSON 301  
**STATE:** COLORADO  
**COUNTY:** GARFIELD  
**WELL NAME:** Specialty 41B-28-692

**FIELD:** MAMM CREEK  
**Sec-Twn-Rng:**  
**PO #/ DISTRICT**  
**Lead DD:** Michael Crawford  
**Co. Man:** Doug Miller  
**BHA TYPE:** Steerable Assembly

## BHA Summary Information

TIME IN - OUT		Rotary Hours		18.85		Start Depth		5638.00		RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		25.08 / .78		End Depth		8272.00			
25-Jul-10 @ 14:10	26-Jul-10 @ 24:00	Slide Hours		5.45		Percent Rotary:		88.23		50 -50	545 -627
		Below Rotary Hrs.		33.83		Percent Slide:		11.77			
Total Drilled:		2634.00		Avg. Total ROP:		108.40		Incl.		Azimuth	
Total Rotary Drilled:		2324.00		Avg. Rotary ROP:		123.29		IN	OUT	IN	OUT
Total Drilled Sliding:		310.00		Avg. Slide ROP:		56.88		.0	.0	.00	.00
SPP	2325 -2500	Weights	SO	120 -130	PU	150 -185	RAB	130 -160	Reason POOH		

Bit Data							Motor Data					Mud Data									
Security		7 7/8 5x16-FX55M					Hunting 1.83					Type									
Type Bit				PDC			Model: MAX TORQUE		Pad OD			WT	0	GAS	0	Solids	0				
TFA		0.981					MFG. Hunting		6.42			Vis	0	SAND	0	T °	0				
JETS			16	16	16	16	16	Bend °	1.83	Stator/Rotor		7/8			PV	0	PH	0	Chlor	0	
			0	0	0	0	0	0	Bit to Bend	6.02	Motor Diff			YP	0	WL	0	Oil %	0		
Bit Coding				IADC#		424		Rev/GAL	0.16									BHT°	0		
IR	OR	DL	Loc	BS	G	ODL	NB Stab		0		Pumps		PUMP1		PUMP1						
							Rotor Jet		0		NAME										
											Model										
Bit Drop:			0 PSI @ 627 GPM				Sensor Offsets					Type									
Comments					Sensor	0	Sonic	0			Liner										
					Gamma	0	DNSC	0			Stroke										
					Restiv	0	GYRO	0			Efficiency										

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	7 7/8 5x16-FX55M	11544982			1.00	1.00	4 1/2 REGP
2	Hunting, 6.5., 16rpg	6273			31.38	32.38	4 1/2 XHB
3	UBHO	12345			2.90	35.28	4 1/2 XHB
4	NMDC	650300314			30.11	65.39	4 1/2 XHB
5	GAP SUB	650001			4.34	69.73	4 1/2 XHB
6	NMDC	650300061			30.67	100.40	4 1/2 XHB
7	HWDP	RIG			933.73	1034.13	4 1/2 XHB

