

---

**BILL BARRETT CORPORATION E-BILL**

---

**GGU MILLER 24B-32-691  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
07-Oct-2010

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2810703	<b>Quote #:</b>	<b>Sales Order #:</b> 7677921
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> South, Jody	
<b>Well Name:</b> GGU MILLER	<b>Well #:</b> 24B-32-691	<b>API/UWI #:</b> 05-045-19425	
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.48 deg. OR N 39 deg. 28 min. 49.231 secs.		<b>Long:</b> W 107.579 deg. OR W -108 deg. 25 min. 15.992 secs.	
<b>Contractor:</b> PROPETRO		<b>Rig/Platform Name/Num:</b> PRO PETRO	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> METLI, MARSHALL		<b>Srvc Supervisor:</b> MUHLESTEIN, RYAN <b>MBU ID Emp #:</b> 453609	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	5	371353	MUHLESTEIN, RYAN Herrick	55	453609	STILLSON, ERIC W	5	393789

**Equipment**

HES Unit #	Distance-1 way						
10616651C	120 mile	10867304	120 mile	10951246	120 mile	10995025	120 mile
10998054	120 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/07/10	5	1						

**TOTAL** *Total is the sum of each column separately*

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>						
<b>Form Type</b>		BHST	<b>On Location</b>			
<b>Job depth MD</b>	790. ft	<b>Job Depth TVD</b>	790. ft	<b>Job Started</b>	07 - Oct - 2010	16:06 MST
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	4. ft	<b>Job Completed</b>	07 - Oct - 2010	16:56 MST
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>	<b>Departed Loc</b>			

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
OPEN HOLE SECTION				12.375				.	790.		
SURFACE CASING	Unknown		9.625	8.921	36.		H-40	.	770.4		

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		HES

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers			

**Miscellaneous Materials**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Conc	Qty

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	WATER SPACER		10.00	bbl	8.33	.0	.0	5.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.37	13.76	5.0	13.42
		13.418 Gal FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.88	5.0	6.72
		6.715 Gal FRESH WATER							
4	DISPLACEMENT		20.00	bbl	8.33	.0	.0	5.0	
Calculated Values		Pressures		Volumes					
Displacement	56.2	Shut In: Instant		Lost Returns	0	Cement Slurry	81	Pad	
Top Of Cement	0	5 Min		Cement Returns	25	Actual Displacement	56	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	5	Displacement	5	Avg. Job		5	
Cement Left In Pipe	Amount	44.34 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2810703	<b>Quote #:</b>	<b>Sales Order #:</b> 7677921
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> South, Jody	
<b>Well Name:</b> GGU MILLER		<b>Well #:</b> 24B-32-691	<b>API/UWI #:</b> 05-045-19425
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.48 deg. OR N 39 deg. 28 min. 49.231 secs.		<b>Long:</b> W 107.579 deg. OR W -108 deg. 25 min. 15.992 secs.	
<b>Contractor:</b> PROPETRO		<b>Rig/Platform Name/Num:</b> PRO PETRO	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> METLI, MARSHALL		<b>Srvc Supervisor:</b> MUHLESTEIN, RYAN	<b>MBU ID Emp #:</b> 453609

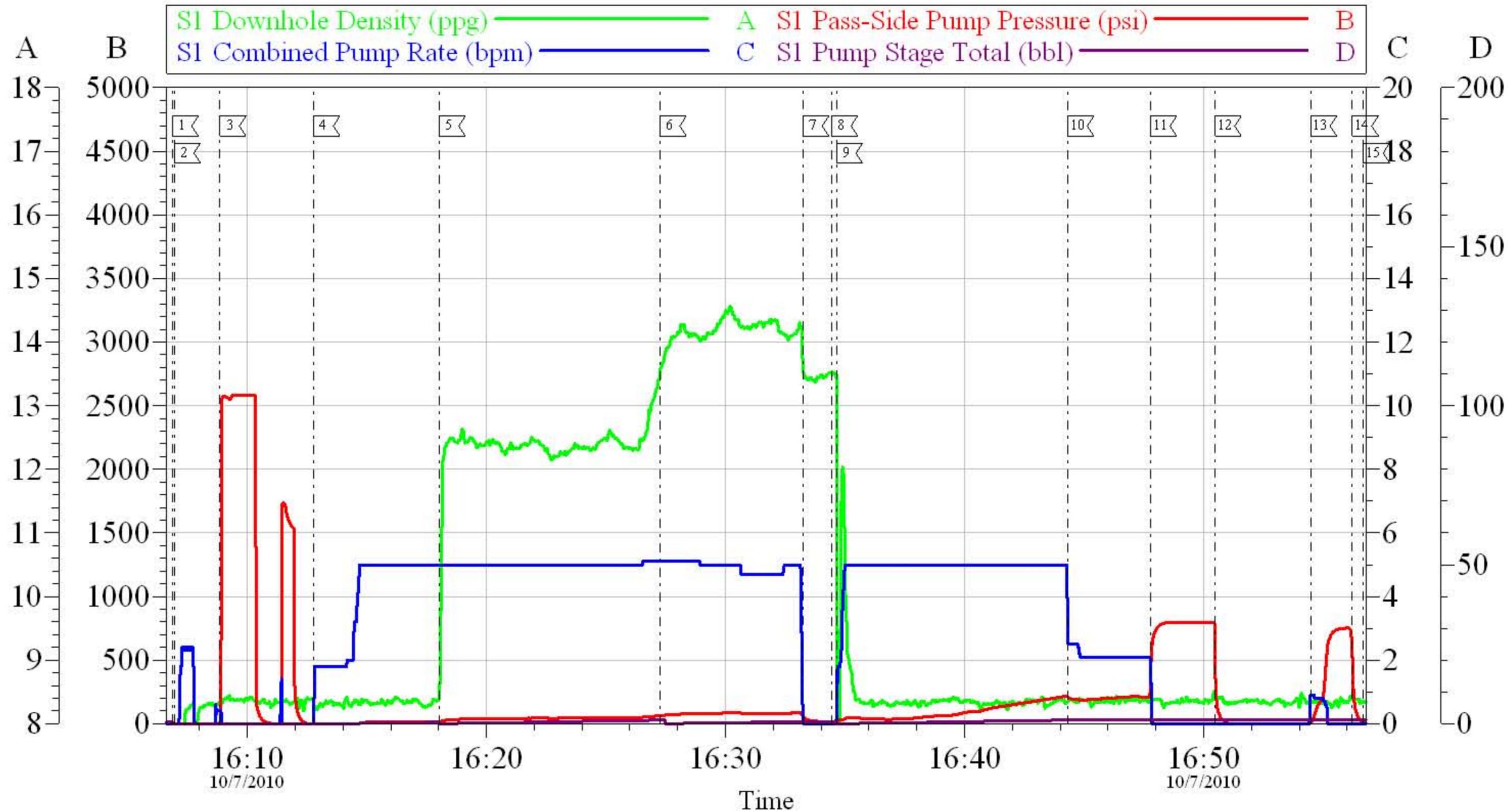
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	10/07/2010 14:00							CREW ON LOCATION FROM PREVIOUS JOB
Assessment Of Location Safety Meeting	10/07/2010 14:15							WITH ALL HES PERSONNEL
Other	10/07/2010 14:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/07/2010 14:45							WITH ALL HES PERSONNEL
Rig-Up Equipment	10/07/2010 15:00							1 HT 400 PUMP, 1 660 BULK TRAILER, 1 F-450 PICK-UP, 1 PLUG CONTAINER
Pre-Job Safety Meeting	10/07/2010 15:45							WITH ALL PERSONNEL ON LOCATION
Start Job	10/07/2010 16:06							TD 790', TP 770.42', SJ 44.34', FC 727.08, 9 5/8" 36# CASING, 12 3/8" AIR DRILLED HOLE
Pump Water	10/07/2010 16:06		2	1			18.0	FILL LINES
Test Lines	10/07/2010 16:08						2606.0	HELD PRESSURE FOR 2 MIN, NO LEAKS
Other	10/07/2010 16:09							STARTED PUMPING SPACER, REALIZED 2" VALVE ON ON HEAD DID NOT OPENED PROPERLY, PUMP OPERATOR SHUT DOWN AND VERIFIED VALVE WAS OPEN
Pump Spacer 1	10/07/2010 16:12		5	20			32.0	PUMP FRESH WATER AT 2 BPM UNTIL TUB WEIGHED UP, THEN SPED RATE TO 5 BPM, AT 5 BBLS AWAY

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	10/07/2010 16:18		5	51			80.0	120 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Pump Tail Cement	10/07/2010 16:27		5	30			98.0	120 SKS, 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK
Shutdown	10/07/2010 16:33							
Drop Top Plug	10/07/2010 16:34							LAUNCH PLUG, VERIFY PLUG LEFT CONTAINER
Pump Displacement	10/07/2010 16:34		5	56.2			240.0	FRESH WATER, CEMENT RETURNS TO SURFACE AT 31 BBLS AWAY ON DISPLACEMENT, 25 BBLS CEMENT TO SURFACE, NO SUGAR USED.
Slow Rate	10/07/2010 16:44		2	46.2			200.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	10/07/2010 16:47		2	56.2			240.0	PLUG BUMPED PLUG AT 240 PSI, PRESSURED UP TO 806
Check Floats	10/07/2010 16:50							FLOATS DID NOT HOLD FULLY, THERE WAS A STEADY TRICKLE COMING BACK.
Bump Plug	10/07/2010 16:54							RE BUMP PLUG TO 757 PSI
Check Floats	10/07/2010 16:56							FLOAT HELD 1 BBL BACK TO TRUCK
End Job	10/07/2010 16:56							
Pre-Rig Down Safety Meeting	10/07/2010 17:15							WITH ALL HES PERSONNEL
Rig-Down Equipment	10/07/2010 17:20							
Other	10/07/2010 17:45							WITH ALL HES PERSONNEL

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Comment	10/07/2010 17:46							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. RYAN MUHLESTEIN AND CREW

# BILL BARRETT

## 9 5/8 SURFACE



Local Event Log								
1	START JOB	16:06:51	2	FILL LINES	16:06:57	3	TEST LINES	16:08:51
4	PUMP SPACER	16:12:47	5	PUMP LEAD CEMENT	16:18:02	6	PUMP TAIL CEMENT	16:27:16
7	SHUT DOWN	16:33:14	8	DROP PLUG	16:34:26	9	PUMP DISPLACEMENT	16:34:39
10	SLOW RATE	16:44:19	11	BUMP PLUG	16:47:47	12	CHECK FLOATS	16:50:29
13	RE-BUMP PLUG	16:54:28	14	CHECK FLOATS	16:56:13	15	END JOB	16:56:41

Customer:	BILL BARRETT	Job Date:	07-Oct-2010	Sales Order #:	7677921
Well Description:	GGU MILLER FED 24B-32-691	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	JODY SOUTH	Cement Supervisor:	RYAN MUHLESTEIN	Elite #:	4 BRENT BANKS