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# **BILL BARRETT CORPORATION E-BILL**

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**KAUFMAN 31C-25-692  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**11-Dec-2011**

**Post Job Report**

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 343492		<b>Ship To #:</b> 2894960		<b>Quote #:</b>		<b>Sales Order #:</b> 9112144	
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL				<b>Customer Rep:</b> Lauer, Casey			
<b>Well Name:</b> KAUFMAN			<b>Well #:</b> 31C-25-692		<b>API/UWI #:</b> 05-045-21147		
<b>Field:</b> MAMM CREEK		<b>City (SAP):</b> UNKNOWN		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Lat:</b> N 39.502 deg. OR N 39 deg. 30 min. 8.773 secs.				<b>Long:</b> W 100.618 deg. OR W -101 deg. 22 min. 53.839 secs.			
<b>Contractor:</b> PROPETRO			<b>Rig/Platform Name/Num:</b> PROPETRO				
<b>Job Purpose:</b> Cement Surface Casing							
<b>Well Type:</b> Development Well			<b>Job Type:</b> Cement Surface Casing				
<b>Sales Person:</b> FLING, MATTHEW			<b>Srvc Supervisor:</b> PHILLIPS, MARK			<b>MBU ID Emp #:</b> 445272	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
JENSEN, JESSE Robert	13	478774	KEANE, JOHN Donovan	13	486519	PHILLIPS, MARK Bejar	13	445272
WALPOLE, DARREN Livingston	13	485294						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10565341	120 mile	10804567	120 mile	10951249	120 mile	11360871	120 mile
11542767	120 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-11-2011	13	2						

<b>TOTAL</b>	Total is the sum of each column separately							
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### Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	11 - Dec - 2011	06:00	MST
Form Type	BHST		Job Started	11 - Dec - 2011	10:59	MST
Job depth MD	755. ft	Job Depth TVD	755. ft	Job Completed	11 - Dec - 2011	11:39
Water Depth		Wk Ht Above Floor	2. ft	Departed Loc		
Perforation Depth (MD)	From	To				

### 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
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### 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		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		

### 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				693.92	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	Qty	

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	WATER SPACER		20.00	bbl	8.34	.0	.0	6.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	6.0	13.77
	0.25 lbm	POLY-E-FLAKE (101216940)							
	13.77 Gal	FRESH WATER							
3	Tail Cement	SWIFTCES (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	6.0	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT		53.60	bbl	8.4			6.0	
Calculated Values		Pressures		Volumes					
Displacement	53.6	Shut In: Instant		Lost Returns	0	Cement Slurry	81	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	53.6	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	154
Rates									
Circulating	AIR	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	44.03 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					

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<b>Well Name:</b> KAUFMAN		<b>Well #:</b> 31C-25-692	<b>API/UWI #:</b> 05-045-21147
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> UNKNOWN	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.502 deg. OR N 39 deg. 30 min. 8.773 secs.		<b>Long:</b> W 100.618 deg. OR W -101 deg. 22 min. 53.839 secs.	
<b>Contractor:</b> PROPETRO		<b>Rig/Platform Name/Num:</b> PROPETRO	
<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> FLING, MATTHEW		<b>Srv Supervisor:</b> PHILLIPS, MARK	<b>MBU ID Emp #:</b> 445272

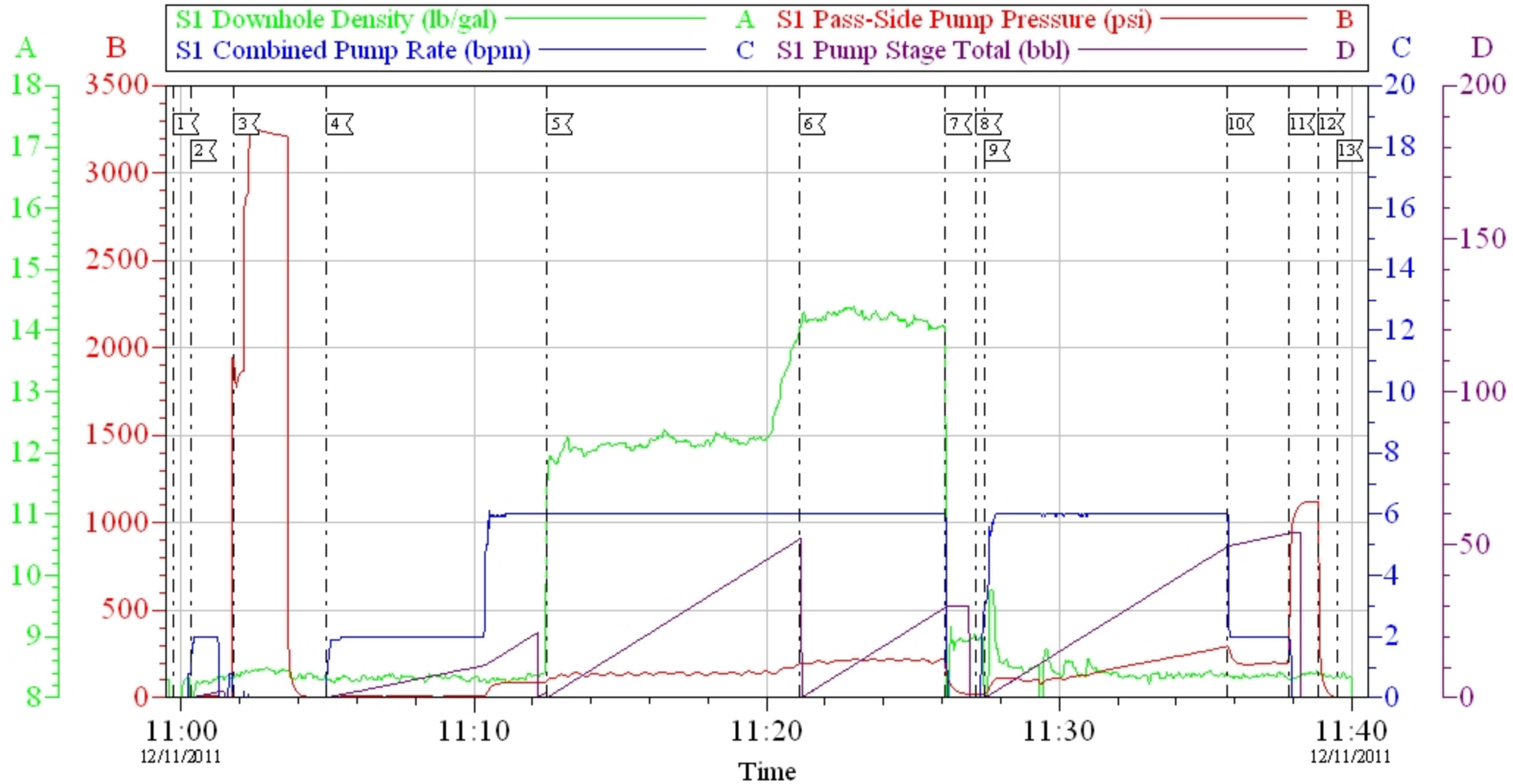
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/11/2011 00:00							BULK TRUCK DRIVERS AND SUPERVISOR OPERATOR STAYED ON LOCATION.
Pre-Convoy Safety Meeting	12/11/2011 04:00							ALL HES EMPLOYEES
Arrive At Loc	12/11/2011 06:30							RIG CREW DRILLING
Assessment Of Location Safety Meeting	12/11/2011 06:45							ALL HES EMPLOYEES, LOCATION ASSESSED BEFORE START OF EACH JOB.
Rig-Up Equipment	12/11/2011 07:00							1 HT-400 CEMENT PUMP, 1 660FT3 BULK TRUCK, 1 9.625" SCREW ON PLUG CONTAINER
Pre-Job Safety Meeting	12/11/2011 10:30							ALL HES EMPLOYEES, RIG CREW, COMPANY REP, 3RD PARTY VENDORS
Start Job	12/11/2011 10:59							TD:755 FT TP:737.95 FT SJ:44.03 , OPEN HOLE: 12.375" CASING: 9.625", J55 8RD, 36 LB/FT
Pump Water	12/11/2011 11:00		2	2			20.0	FRESH WATER
Pressure Test	12/11/2011 11:01		0.5			3250.0		NO LEAKS
Pump Spacer 1	12/11/2011 11:04		6	20			80.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	12/11/2011 11:12		6	51			140.0	120SKS VERSACEM MIXED @ 12.3PPG, 2.38FT3/SK, 13.75GALS/SK, WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED
Pump Tail Cement	12/11/2011 11:21		6	31			200.0	120SKS SWIFTCM MIXED @ 14.2PPG, 1.43FT3/SK, 6.88GALS/SK, WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED, RETURNS NOTED TO SURFACE WITH 20 BBLS AWAY ON TAIL CMT.
Shutdown	12/11/2011 11:26							
Drop Plug	12/11/2011 11:27							PLUG LAUNCHED
Pump Displacement	12/11/2011 11:27		6	53.6			200.0	FRESH WATER
Cement Returns to Surface	12/11/2011 11:31		6	23			180.0	30 BBLS CMT RETURNED TO SURFACE
Slow Rate	12/11/2011 11:35		2	45			250.0	SLOW RATE 10BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/11/2011 11:37		2	53.6			1100.0	PLUG LANDED
Check Floats	12/11/2011 11:38							FLOATS HELD
End Job	12/11/2011 11:39							THANK YOU FOR USING HALLIBURTON ENERGY SERVICES FROM MARK PHILLIPS AND CREW
Post-Job Safety Meeting (Pre Rig-Down)	12/11/2011 11:45							ALL HES EMPLOYEES

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Rig-Down Equipment	12/11/2011 11:50							RIG UP TO NEXT LAST WELL AFTER RIG IS DONE DRILLING.

# BILL BARRETT CORP

## KAUFMAN 31C-25-692 SURFACE



Local Event Log			
[1] START JOB	10:59:43	[2] FILL LINES	11:00:19
[3] PRESSURE TEST	11:01:48	[4] H2O SPACER	11:04:58
[5] LEAD CEMENT	11:12:29	[6] TAIL CEMENT	11:21:08
[7] SHUT DOWN	11:26:07	[8] DROP PLUG	11:27:10
[9] START DISPLACEMENT	11:27:26	[10] SLOW RATE	11:35:46
[11] BUMP PLUG	11:37:51	[12] CHECK FLOATS	11:38:51
[13] END JOB	11:39:30		

Customer: BILL BARRETT  
 Well Description: KAUFMAN 31C-25-692  
 Company Rep: CAASEY LAUER

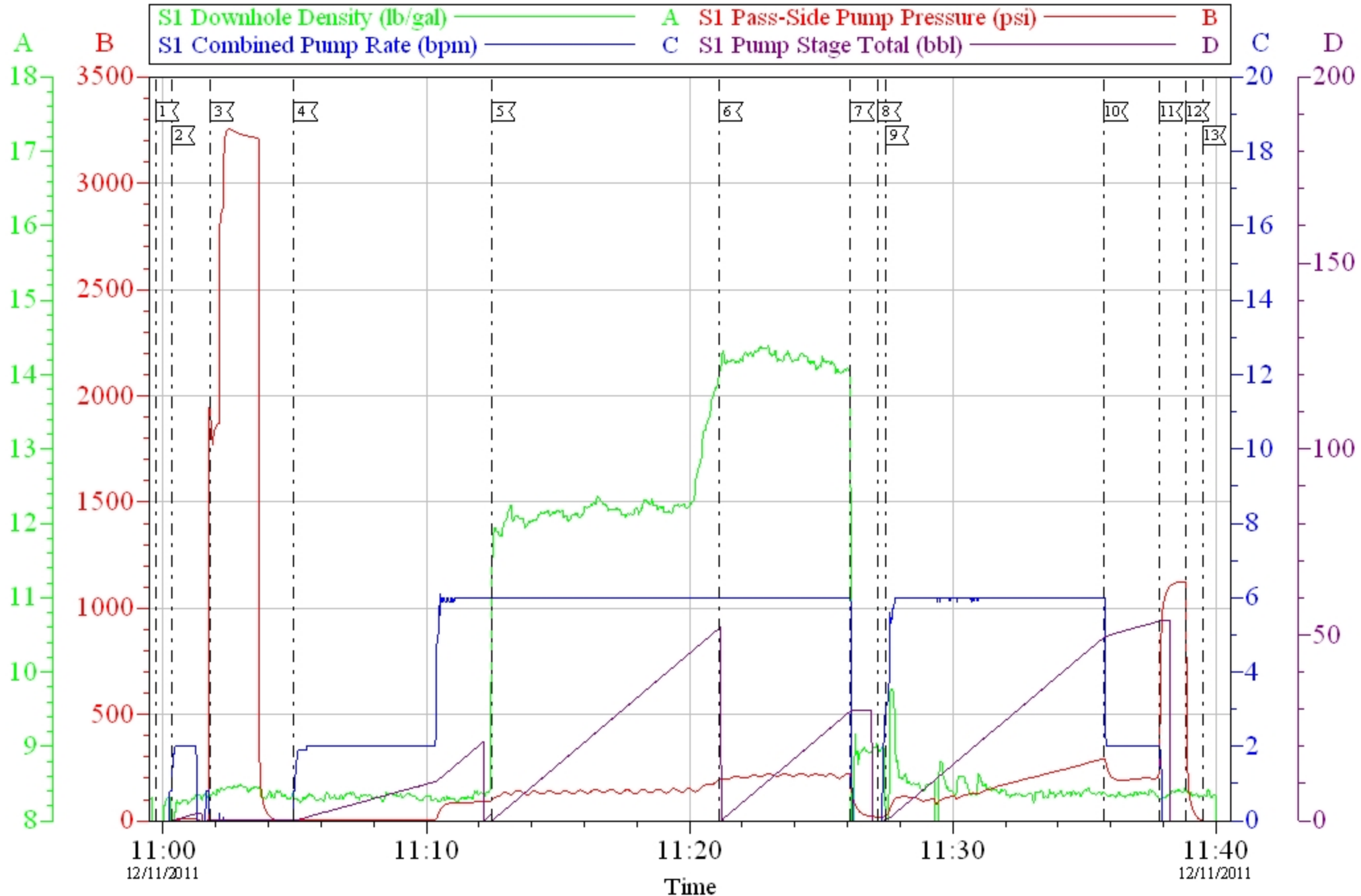
Job Date: 11-Dec-2011  
 Job Type: SURFACE  
 Cement Supervisor: MARK PHILLIPS

Sales Order #: 9112142  
 ADC Used: YES  
 Elite #: MARK PHILLIPS

OptiCem v6.4.10  
 11-Dec-11 12:17

# BILL BARRETT CORP

## KAUFMAN 31C-25-692 SURFACE



Customer: BILL BARRETT  
 Well Description: KAUFMAN 31C-25-692  
 Company Rep: CAASEY LAUER

Job Date: 11-Dec-2011  
 Job Type: SURFACE  
 Cement Supervisor: MARK PHILLIPS

Sales Order #: 9112142  
 ADC Used: YES  
 Elite #: MARK PHILLIPS

OptiCem v6.4.10  
 11-Dec-11 12:17



<b>Sales Order #:</b> 9112144	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/11/2011
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> CASEY LAUER		<b>API / UWI: (leave blank if unknown)</b> 05-045-21147
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 21C-25-692
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

### CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	12/11/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MARK PHILLIPS (HB13261)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	CASEY LAUER
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
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<b>Sales Order #:</b> 9112144	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/11/2011
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<b>Customer Representative:</b> CASEY LAUER		<b>API / UWI: (leave blank if unknown)</b> 05-045-21147
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 21C-25-692
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	12/11/2011

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	2
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Customer Non-Productive Rig Time (hrs)</b> Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	0
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 9112144	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/11/2011
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<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 21C-25-692
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	98
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0