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**BILL BARRETT CORPORATION**

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**KAUFMAN 12B-30-691  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**09-Sep-2011**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2874910	Quote #:	Sales Order #: 8428208
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Henderson, Josh		
Well Name: KAUFMAN	Well #: 12B-30-691	API/UWI #: 05-045-20741	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.501 deg. OR N 39 deg. 30 min. 4.162 secs.	Long: W 107.603 deg. OR W -108 deg. 23 min. 50.773 secs.		
Contractor: ProPetro Services Inc.	Rig/Platform Name/Num: ProPetro		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: METLI, MARSHALL	Srv Supervisor: KUKUS, CRAIG	MBU ID Emp #: 369124	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BURKE, BRENDAN Patrick	12.5	487782	KUKUS, CRAIG A	12.5	369124	SMITH, DUSTIN Michael	12.5	418015
WYCKOFF, RYAN Scott	12.5	476117						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10829469	120 mile	10867322	120 mile	10872429	120 mile	10897891	120 mile
11360883	120 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/8/11	6	0	9/9/11	6.5	2.5			

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

## Job

## Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	08 - Sep - 2011	18:01	MST
Form Type		BHST	Job Started	08 - Sep - 2011	18:01	MST
Job depth MD	795. ft	Job Depth TVD	Job Started	09 - Sep - 2011	04:42	MST
Water Depth		Wk Ht Above Floor	Job Completed	09 - Sep - 2011	05:38	MST
Perforation Depth (MD)	From	To	Departed Loc	09 - Sep - 2011	06:45	MST

## 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
12 1/4" Open Hole				12.25				.	800.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	800.		

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		

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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	4	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	4	13.77
	13.77 Gal	FRESH WATER							
3	SwiftCem Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	4	6.85
	6.85 Gal	FRESH WATER							
4	Displacement		56.00	bbl	8.34			6	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	56	Shut In: Instant		Lost Returns	0	Cement Slurry	81	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	23	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	158
<b>Rates</b>									
Circulating	NONE	Mixing	4	Displacement	6	Avg. Job			5
Cement Left In Pipe	Amount	44.30 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*

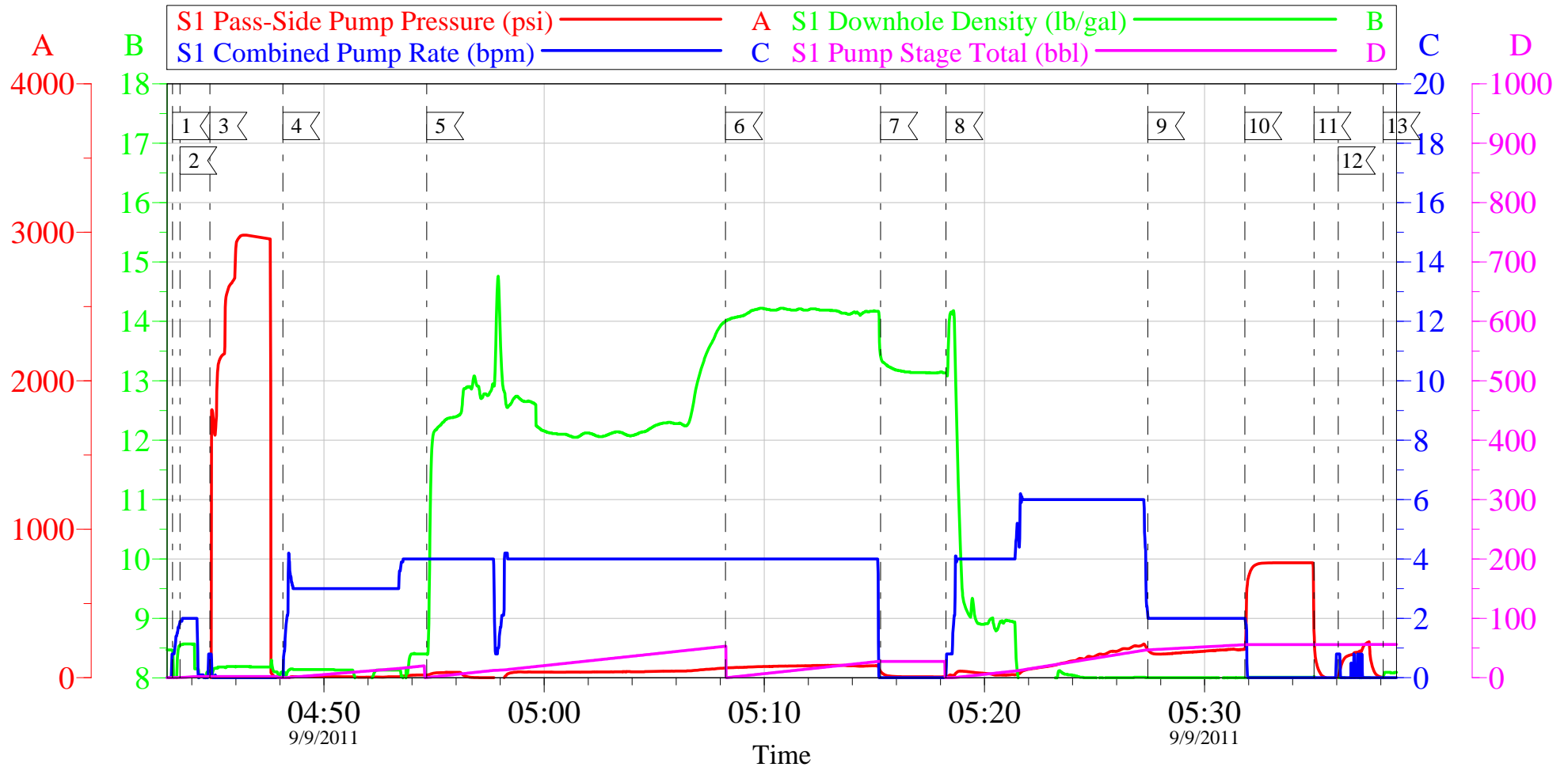
<b>Sold To #:</b> 343492		<b>Ship To #:</b> 2874910		<b>Quote #:</b>		<b>Sales Order #:</b> 8428208	
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL				<b>Customer Rep:</b> Henderson, Josh			
<b>Well Name:</b> KAUFMAN			<b>Well #:</b> 12B-30-691			<b>API/UWI #:</b> 05-045-20741	
<b>Field:</b> MAMM CREEK		<b>City (SAP):</b> SILT		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.501 deg. OR N 39 deg. 30 min. 4.162 secs.				<b>Long:</b> W 107.603 deg. OR W -108 deg. 23 min. 50.773 secs.			
<b>Contractor:</b> ProPetro Services Inc.			<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> METLI, MARSHALL			<b>Srv Supervisor:</b> KUKUS, CRAIG			<b>MBU ID Emp #:</b> 369124	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	09/08/2011 18:01							CREW ON LOCATION
Call Out	09/08/2011 18:01							CREW ON LOCATION
Assessment Of Location Safety Meeting	09/09/2011 03:00							ASSESSMENT OF LOCATION INVOLVING THE ENTIRE CMT CREW
Pre-Rig Up Safety Meeting	09/09/2011 03:15							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Up Equipment	09/09/2011 03:30							RIG UP IRON TO OFF LINE WELL
Circulate Well	09/09/2011 03:30							RIG DONE WITH CSG/NO CIRCULATION
Pre-Job Safety Meeting	09/09/2011 04:30							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	09/09/2011 04:42							TD 795 FT TP 775.59 FT SJ 44.30 FT OH 12 1/4 IN MUD WT 8.3# PIPE 9 5/8 IN J-55 36#
Other	09/09/2011 04:43		2	2			7.0	FILL LINES WITH FRESH WATER
Pressure Test	09/09/2011 04:44		0.5			3500. 0		PRESSURE TEST GOOD
Pump Spacer 1	09/09/2011 04:48		4	20			35.0	FRESH WATER SPACER
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	09/09/2011 04:54		4	50.8			72.0	PUMP 120 SKS LEAD CEMENT AT 12.3 PPG 2.38 Y 13.77 GAL/SK / DURING PUMPING LEAD CEMENT RELEASE LINE 1 IN VALVE FELL OPEN CAUSING SPIKE IN DENSITY READING ON DOWN HOLE /SLOWED AND FIXED PROBLEM
Pump Tail Cement	09/09/2011 05:08		4	30.5			98.0	PUMP 120 SKS TAIL CEMENT AT 14.2 PPG 1.43 Y 6.85 GAL/SK
Shutdown	09/09/2011 05:15							
Drop Top Plug	09/09/2011 05:15							PLUG LEFT THE PLUG CONTAINER
Pump Displacement	09/09/2011 05:18		6	56.5			235.0	PUMP H2O DISPLACEMENT / WASHED ON TOP OF PLUG
Slow Rate	09/09/2011 05:27		2	46			180.0	SLOWED RATE LAST 10 BBLS
Bump Plug	09/09/2011 05:31		2	56			787.0	PLUG LANDED AT 210 PSI
Check Floats	09/09/2011 05:34							FLOATS HELD / GOT 1/2 BBL BACK TO TANKS / GOT RETURNS 15 BBLS INTO TAIL CEMENT AND GOT CEMENT TO SURFACE TOTAL 23 BBLS
Other	09/09/2011 05:36						220.0	PRESSURE CSG UP / SHUT IN 2 IN ON WELL
End Job	09/09/2011 05:38							RIG DOWN AND WASH TO PIT
Pre-Rig Down Safety Meeting	09/09/2011 05:40							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Down Equipment	09/09/2011 05:45							
Safety Meeting - Departing Location	09/09/2011 06:30							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Comment	09/09/2011 06:45							THANK YOU FOR USING HALLIBURTON, CRAIG KUKUS AND CREW

# BILL BARRETT GGU KAUFMAN 12B-30-691

SURFACE



## Local Event Log

1 START JOB	04:43:07	2 PRIME LINES	04:43:28	3 PRESSURE TEST	04:44:49
4 PUMP SPACER	04:48:08	5 PUMP LEAD CEMENT	04:54:40	6 PUMP TAIL CEMENT	05:08:14
7 SHUT DOWN/DROP PLUG	05:15:17	8 PUMP H2O DISPLACEMENT	05:18:15	9 SLOW RATE	05:27:25
10 BUMP PLUG	05:31:50	11 CHECK FLOATS	05:34:58	12 PRESSURE CSG/SHUT IN	05:36:04
13 END JOB	05:38:07				

Customer: BILL BARRETT  
Well Description: GGU KAUFMAN 12B-30-691  
Company Rep: JOSH HENDERSON

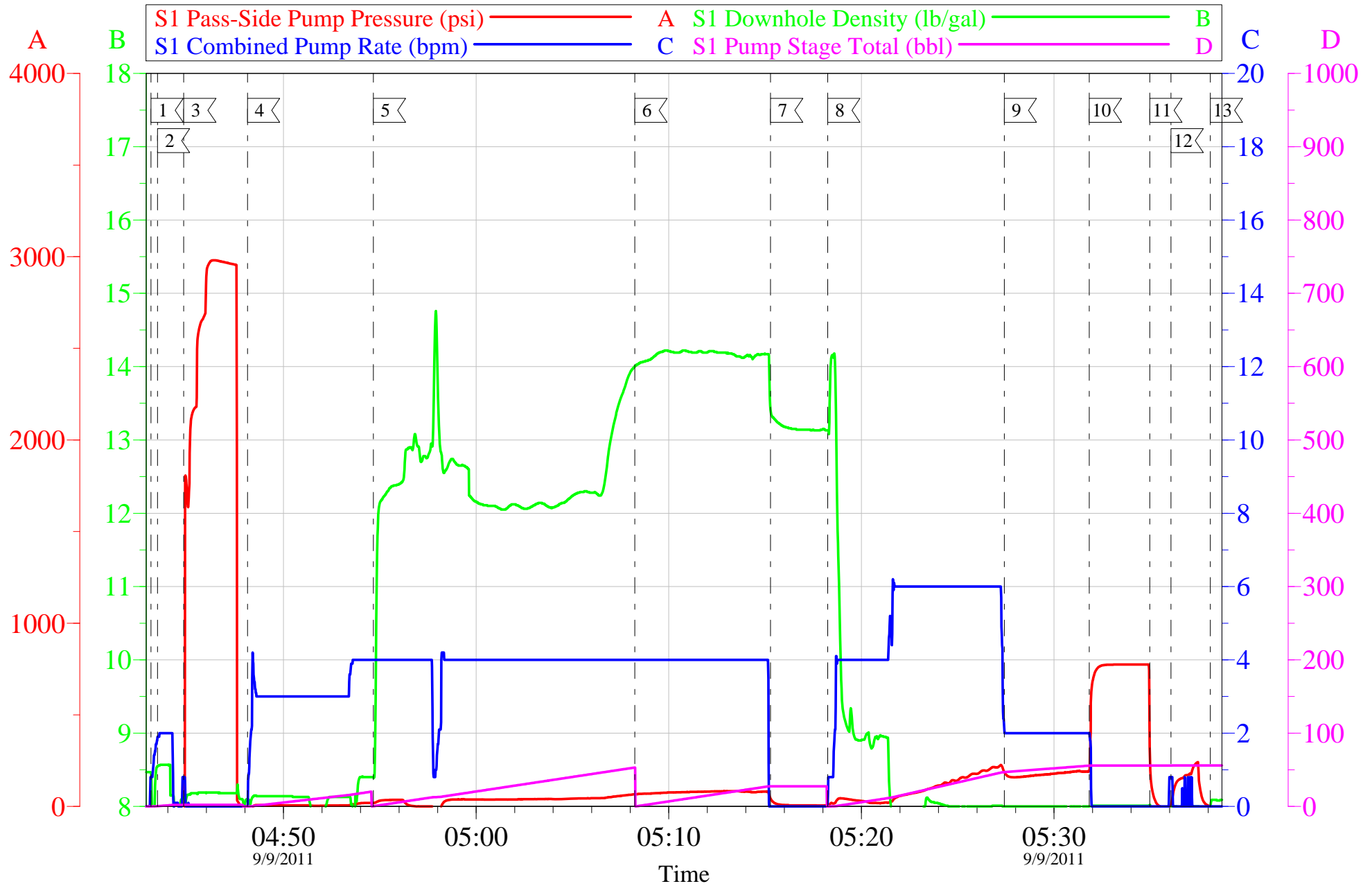
Job Date: 09-Sep-2011  
Job Type: SURFACE  
Cement Supervisor: CRAIG KUKUS

Sales Order #: 8428208  
ADC Used: YES  
ELITE 7 RYAN WYCKOFF

OptiCem v6.4.9  
28-Feb-12 16:09

# BILL BARRETT GGU KAUFMAN 12B-30-691

SURFACE



Customer: BILL BARRETT  
Well Description: GGU KAUFMAN 12B-30-691  
Company Rep: JOSH HENDERSON

Job Date: 09-Sep-2011  
Job Type: SURFACE  
Cement Supervisor: CRAIG KUKUS

Sales Order #: 8428208  
ADC Used: YES  
ELITE 7 RYAN WYCKOFF

OptiCem v6.4.9  
28-Feb-12 16:11

# HALLIBURTON

## Water Analysis Report

Company: BARRETT  
Submitted by: CRAIGKUKUS  
Attention:   
Lease: KAUFMAN  
Well #: 12B-30-691

Date: 9/9/2011  
Date Rec.: 9/9/2011  
S.O.#: 8428208  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	
pH	<i>8</i>	<i>8</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>below200</i> Mg / L
Chlorine (Cl <sub>2</sub> )		<i>250</i> Mg / L
Temp	<i>40-80</i>	<i>59</i> Deg
Total Dissolved Solids		<i>350</i> Mg / L

Respectfully: CRAIGKUKUS

Title: CEMENTING SUPERVISOR

Location: GRANDJUNCTION CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or



<b>Sales Order #:</b> 8428208	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/9/2011
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> JOSH HENDERSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-20741
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 32D-30-691
<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	9/9/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CRAIG KUKUS (HX19742)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JOSH HENDERSON
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	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	No
Time	Please enter hours in decimal format to nearest quarter hour.	
Other	Enter short text for other efficiencies gained.	
Customer Initials	Customer's Initials	
Please provide details	Please describe how the job efficiencies were gained.	

CUSTOMER SIGNATURE

<b>Sales Order #:</b> 8428208	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/9/2011
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> JOSH HENDERSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-20741
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 32D-30-691
<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	9/9/2011

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.	2.5
<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> 8428208	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/9/2011
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<b>Customer Representative:</b> JOSH HENDERSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-20741
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 32D-30-691
<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	97
<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