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# **BILL BARRETT CORPORATION E-BILL**

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**KAUFMAN 11A-30-691  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**14-Sep-2011**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2874921	Quote #:	Sales Order #: 8428216
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Henderson, Josh		
Well Name: KAUFMAN	Well #: 11A-30-691	API/UWI #: 05-045-20735	
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Lat: N 39.501 deg. OR N 39 deg. 30 min. 4.921 secs.	Long: W 107.603 deg. OR W -108 deg. 23 min. 50.039 secs.		
Contractor: PROPETRO	Rig/Platform Name/Num: PRO PETRO		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: METLI, MARSHALL	Srvs Supervisor: HUGENTOBLE, LOGAN	MBU ID Emp #: 447333	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	8	371353	COSTELDIA, BROCK James	8	476115	HUGENTOBLE, LOGAN Mark	8	447333
SINGLETON, AUSTIN W	8	487406						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10592964	120 mile	10744549	120 mile	10871245	120 mile	10951247	120 mile
11360881	120 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/14/11	8	2						

TOTAL	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	14 - Sep - 2011	06:00	MST
Form Type	BHST		Job Started	14 - Sep - 2011	09:00	MST
Job depth MD	780. ft	Job Depth TVD	Job Started	14 - Sep - 2011	12:00	MST
Water Depth		Wk Ht Above Floor	Job Completed	14 - Sep - 2011	12:53	MST
Perforation Depth (MD)	From	To	Departed Loc	14 - Sep - 2011	14:00	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
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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		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
R/A DENSOMETER W/CHART RECORDER,/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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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		10.00	bbl	8.34	.0	.0	5	
2	VersaCem	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	6	13.77
	13.77 Gal	FRESH WATER							
3	SwiftCem	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	6	6.85
	6.85 Gal	FRESH WATER							
4	Displacement		55.00	bbl	.	.0	.0	8	
Calculated Values		Pressures		Volumes					
Displacement	55	Shut In: Instant		Lost Returns	0	Cement Slurry	80	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	55	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	6	Displacement	8	Avg. Job	7		
Cement Left In Pipe	Amount	44ft	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*

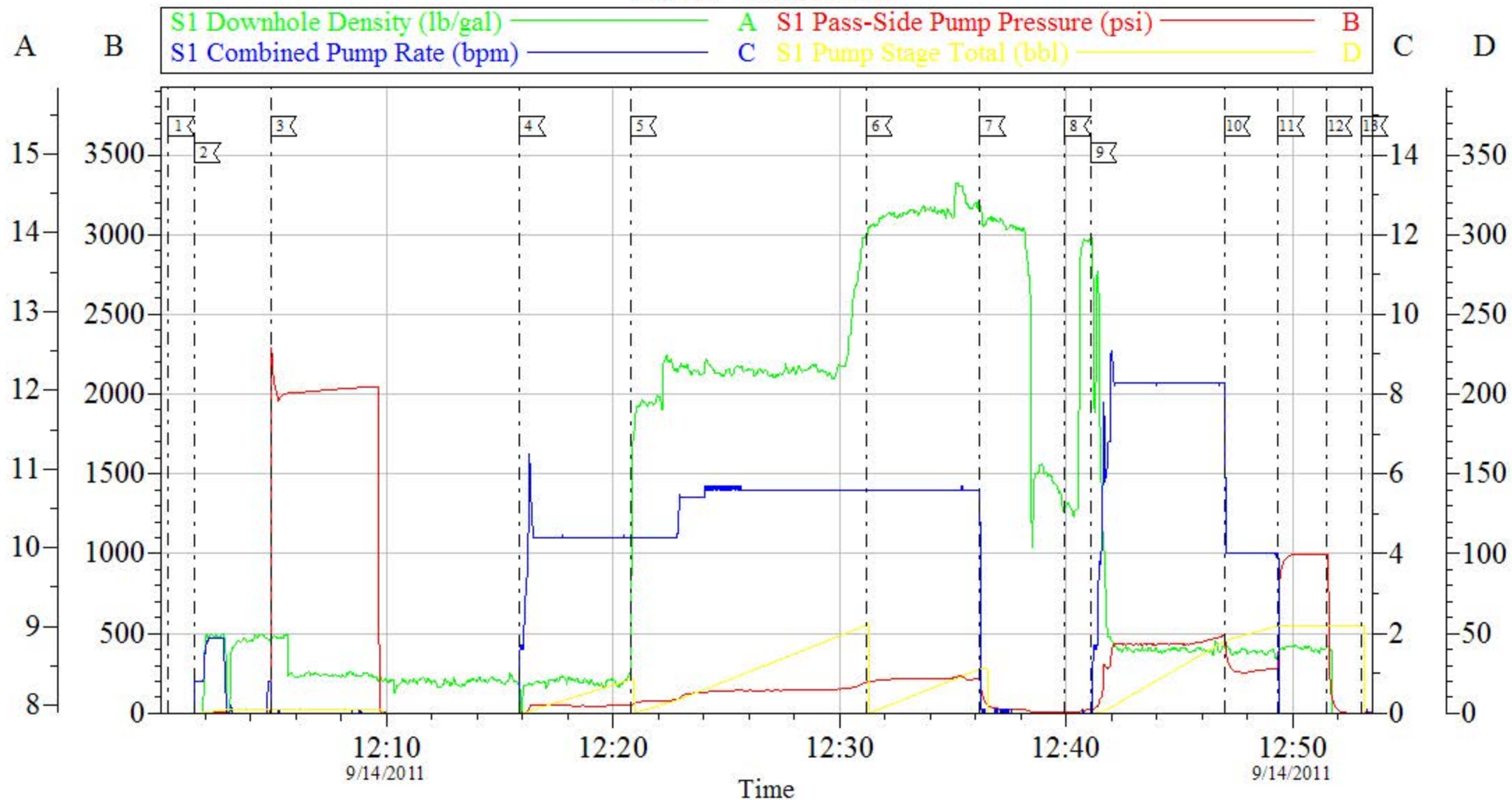
<b>Sold To #:</b> 343492		<b>Ship To #:</b> 2874921		<b>Quote #:</b>		<b>Sales Order #:</b> 8428216	
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL				<b>Customer Rep:</b> Henderson, Josh			
<b>Well Name:</b> KAUFMAN			<b>Well #:</b> 11A-30-691			<b>API/UWI #:</b> 05-045-20735	
<b>Field:</b> MAMM CREEK		<b>City (SAP):</b> UNKNOWN		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.501 deg. OR N 39 deg. 30 min. 4.921 secs.				<b>Long:</b> W 107.603 deg. OR W -108 deg. 23 min. 50.039 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>Srv Supervisor:</b> HUGENTOBLE, LOGAN			<b>MBU ID Emp #:</b> 447333	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/14/2011 06:00							
Pre-Convoy Safety Meeting	09/14/2011 07:00							ALL HES EMPLOYEES
Arrive At Loc	09/14/2011 09:00							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	09/14/2011 09:00							ALL HES EMPLOYEES
Rig-Up Equipment	09/14/2011 09:10							1 HT-400 PUMP TRUCK, 1 660 BULK TRUCK, 1 F-450 P/U, 1 PLUG CONTAINER
Pre-Job Safety Meeting	09/14/2011 11:45							ALL HES EMPLOYEES, RIG CREW, CO REP AND ANY 3RD PARTY VENDORS
Start Job	09/14/2011 12:00							TP 766 FT, TD 800 FT, FC 722 FT, HOLE 12.25", MUD WT AIR, RATE WILL BE 5, WILL BUMP 500 PSI OVER LAND PSI
Pump Water	09/14/2011 12:01		2	2			21.0	FILL LINES PRIOR TO PRESSURE TESTING LINES
Pressure Test	09/14/2011 12:04							NO LEAKS, KICK OUTS SET TO 3000 PSI FOR TEST.
Pump Spacer 1	09/14/2011 12:15		5	20			88.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	09/14/2011 12:20		6	50			189.0	120 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.38 YIELD, 13.77 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES WET AND DRY SAMPLES SUBMITTED.
Pump Tail Cement	09/14/2011 12:31		6	30			202.0	120 SKS SWIFTCM CMT TO BE MIXED AT 14.2 PPG, 1.43 YIELD, 6.85 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED,
Shutdown	09/14/2011 12:36							
Drop Plug	09/14/2011 12:39							PLUG LAUNCHED
Pump Displacement	09/14/2011 12:41		8	55			338.0	FRESH WATER
Slow Rate	09/14/2011 12:46		4				228.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	09/14/2011 12:49						922.0	PLUG LANDED
Check Floats	09/14/2011 12:51							FLOATS HOLDING, 20 BBLS CEMENT TO SURFACE
End Job	09/14/2011 12:53							THANK YOU FOR USING HES LOGAN HUGENTOBLE AND CREW
Post-Job Safety Meeting (Pre Rig-Down)	09/14/2011 12:55							ALL HES EMPLOYEES
Rig-Down Equipment	09/14/2011 13:00							
Pre-Convoy Safety Meeting	09/14/2011 14:00							ALL HES EMPLOYEES
Crew Leave Location	09/14/2011 14:00							LOCATION CLEAN

# BILL BARRETT

## 9.625" SURFACE



### Local Event Log

1 START JOB	12:00:22	2 PRIME LINES	12:01:31	3 PRESSURE TEST	12:04:52
4 PUMP H2O SPACER	12:15:51	5 PUMP LEAD CEMENT	12:20:46	6 PUMP TAIL CEMENT	12:31:11
7 SHUTDOWN	12:36:10	8 DROP PLUG	12:39:57	9 PUMP DISPLACEMENT	12:41:06
10 SLOW RATE	12:46:59	11 BUMP PLUG	12:49:22	12 CHECK FLOATS	12:51:30
13 END JOB	12:53:03				

Customer: BILL BARRETT  
Well Description: 11A-30-691  
Company Rep: JOSH HENDERSON

Job Date: 14-Sep-2011  
Job Type: SURFACE  
Cement Supervisor: LOGAN HUGENTOBLE

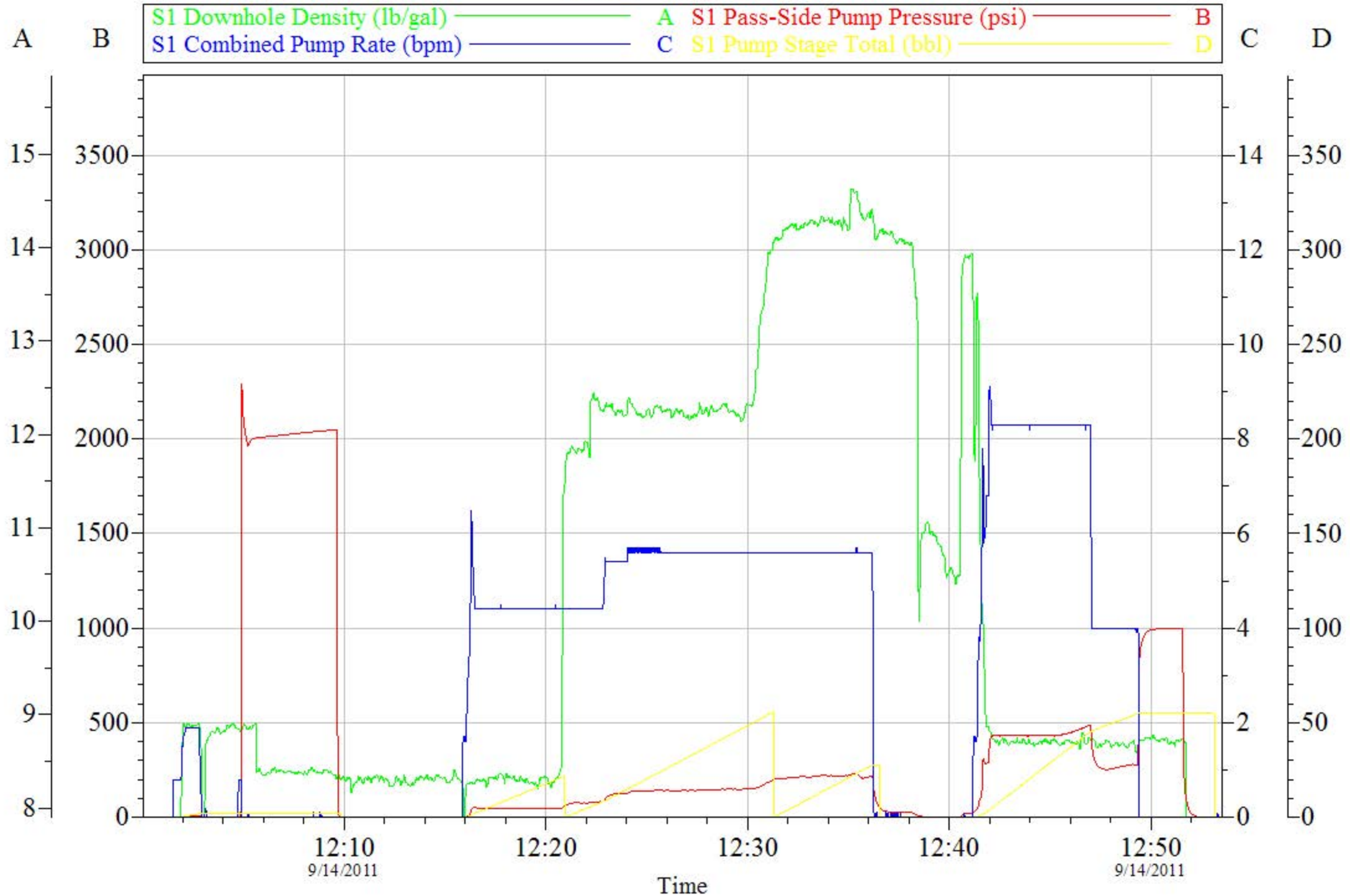
Sales Order #: 8428216  
ADC Used: YES  
Elite #8 / Operator: AUSTIN SINGLETON

OptiCem v6.4.10  
14-Sep-11 13:13



# BILL BARRETT

## 9.625" SURFACE



Customer: BILL BARRETT  
Well Description: 11A-30-691  
Company Rep: JOSH HENDERSON

Job Date: 14-Sep-2011  
Job Type: SURFACE  
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 8428216  
ADC Used: YES  
Elite #8 / Operator: AUSTIN SINGLETON

OptiCem v6.4.10  
14-Sep-11 13:13

<b>Sales Order #:</b> 8428216	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/14/2011
<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> 05-045-20735
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 11A-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	9/14/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	LOGAN HUGENTOBLE (HB15210)
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> 8428216	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/14/2011
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<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 11A-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>	9/14/2011
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	6
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0
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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	6
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 8428216	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/14/2011
<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> 05-045-20735
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 11A-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	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

# HALLIBURTON

## Water Analysis Report

Company: BILL BARRETT

Submitted by: LOGAN HUGENTOBLER

Attention: \_\_\_\_\_

Lease KAUFMAN

Well # 11A-30-691

Date: 9/17/2011

Date Rec.: 9/17/2011

S.O.# 8428216

Job Type: 9.625 SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>190</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>below 200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>65</b> Deg
Total Dissolved Solids		<b>310</b> Mg / L

Respectfully: LOGAN HUGENTOBLER

Title: CEMENTING SUPERVISOR

Location: Grand Junction, 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 its