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# **BILL BARRETT CORPORATION E-BILL**

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**Kaufman 32C-24-692  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**16-Aug-2011**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2871019	Quote #:	Sales Order #: 8382268
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Henderson, Josh		
Well Name: Kaufman	Well #: 32C-24-692	API/UWI #: 05-045-19912	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.516 deg. OR N 39 deg. 30 min. 57.78 secs.	Long: W 107.614 deg. OR W -108 deg. 23 min. 9.557 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: MAGERS, MICHAEL	MBU ID Emp #: 339439	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BORSZICH, STEPHEN A	11	412388	MAGERS, MICHAEL Gerard	11	339439	SINCLAIR, DAN J	11	338784
WILKERSON, JAMES Michael	11	496763						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025118	120 mile	10829469	120 mile	10872429	120 mile	11071463	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
08/16/2011	11	1						

**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	16 - Aug - 2011	09:00	MST
Form Type		BHST	Job Started	16 - Aug - 2011	19:04	MST
Job depth MD	840. ft	Job Depth TVD	Job Completed	16 - Aug - 2011	19:57	MST
Water Depth		Wk Ht Above Floor	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
12 1/4" Open Hole				12.25				.	840.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	835.7		

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	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	SWAGE	
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	.	.0	.0	.0		
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77		13.77	
	13.77 Gal	FRESH WATER								
3	SwiftCem Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85		6.85	
	6.85 Gal	FRESH WATER								
4	Displacement		62.00	bbl	.	.0	.0	.0		
Calculated Values		Pressures		Volumes						
Displacement	62.2	Shut In: Instant		Lost Returns	0	Cement Slurry	81.5	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	15	Actual Displacement	52.2	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	164	
Rates										
Circulating	NONE	Mixing	5	Displacement	5/2	Avg. Job	5			
Cement Left In Pipe	Amount	45.2 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*

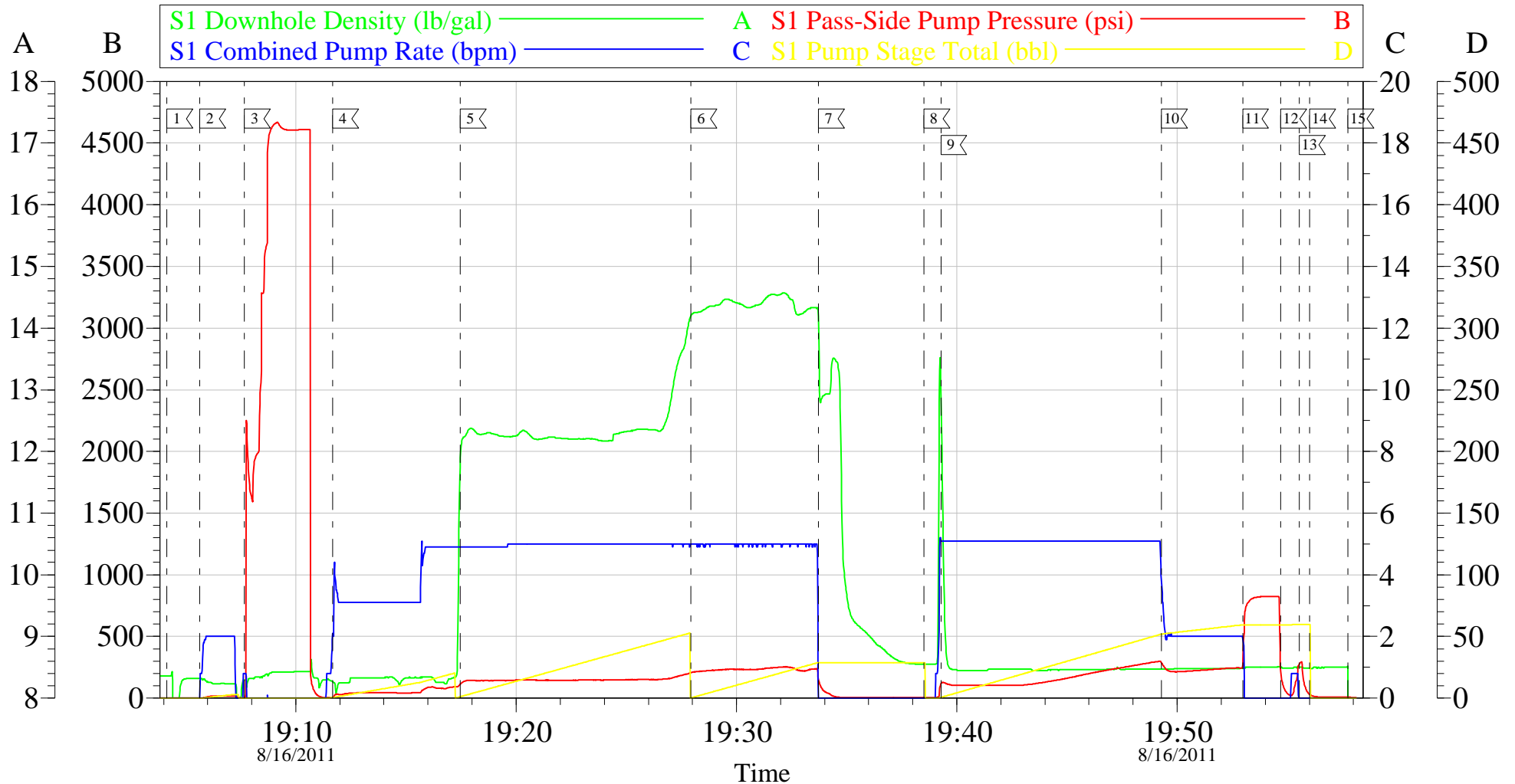
<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2871019	<b>Quote #:</b>	<b>Sales Order #:</b> 8382268
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> Henderson, Josh	
<b>Well Name:</b> Kaufman	<b>Well #:</b> 32C-24-692	<b>API/UWI #:</b> 05-045-19912	
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.516 deg. OR N 39 deg. 30 min. 57.78 secs.		<b>Long:</b> W 107.614 deg. OR W -108 deg. 23 min. 9.557 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>Srvc Supervisor:</b> MAGERS, MICHAEL	<b>MBU ID Emp #:</b> 339439

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	08/16/2011 09:00							HES ALL READY ON LOCATION WAITING FOR RIG TO DRILL NEW HOLE AND RUN CASING
Pre-Rig Up Safety Meeting	08/16/2011 18:45							
Rig-Up Equipment	08/16/2011 18:50							TD-840 TP-835.7 SJ-45.2 MW-8.33 CSG-9 5/8 36# J-55 OH-12 1/4"
Safety Huddle	08/16/2011 19:00							HES ALL PRESENT
Start Job	08/16/2011 19:04							
Other	08/16/2011 19:05		2	2			17.0	FILL LINES
Pressure Test	08/16/2011 19:07		0.5	0.5			4606.0	PSI TEST OK
Pump Spacer 1	08/16/2011 19:11		3	20			44.0	FRESH WATER
Pump Lead Cement	08/16/2011 19:17		5	50.9			156.0	VERSACEM 120 SKS 12.3 PPG 2.38 FT3/SK 13.77 GAL/SK
Pump Tail Cement	08/16/2011 19:27		5	30.6			250.0	SWIFTCESM 120 SKS 14.2 PPG 1.43 FT3/SK 6.85 GAL/SK GOT RETURNS AT 26 BBLS
Shutdown	08/16/2011 19:33							
Drop Plug	08/16/2011 19:38							PLUG AWAY NO PROBLEMS
Pump Displacement	08/16/2011 19:39		5	62.2			290.0	FRESH WATER/GOT RETURNS AT 9 BBLS
Slow Rate	08/16/2011 19:49		2	52			223.0	GOT 15 BBLS OF CEMENT TO SURFACE

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	08/16/2011 19:52		2	62.2			240.0	BUMPED PLUG
Check Floats	08/16/2011 19:54			62.2			800.0	FLOATS HELD/GOT .5 BBL BACK
Shut In Well	08/16/2011 19:55						250.0	SHUT IN WELL 2' LO- TORC VALVE WITH
Release Casing Pressure	08/16/2011 19:56							RELEASE PRESSURE ON LINE
End Job	08/16/2011 19:57							THANKS FOR USING HES AND THE CREW OF MIKE MAGERS

# BILL BARRETT PRO PETRO

## 9.625 SURFACE



### Local Event Log

1 START JOB	19:04:09	2 FILL LINES	19:05:38	3 PRESSURE TEST	19:07:40
4 PUMP H2O SPACER	19:11:40	5 PUMP LEAD CEMENT	19:17:27	6 PUMP TAIL CEMENT	19:27:56
7 SHUT DOWN	19:33:44	8 DROP PLUG	19:38:30	9 PUMP FRSH WTR DISPLACEMENT	19:39:17
10 SLOW RATE	19:49:17	11 BUMP PLUG	19:52:58	12 CHECK FLOATS	19:54:41
13 SHUT IN WELL	19:55:33	14 RELEASE PRESSURE IN LINE	19:56:01	15 END JOB	19:57:45

Customer: BILL BARRETT PRO PETRO  
Well Description: KAUFMAN 32C-24-692  
Company Rep: JOSH HENDERSON

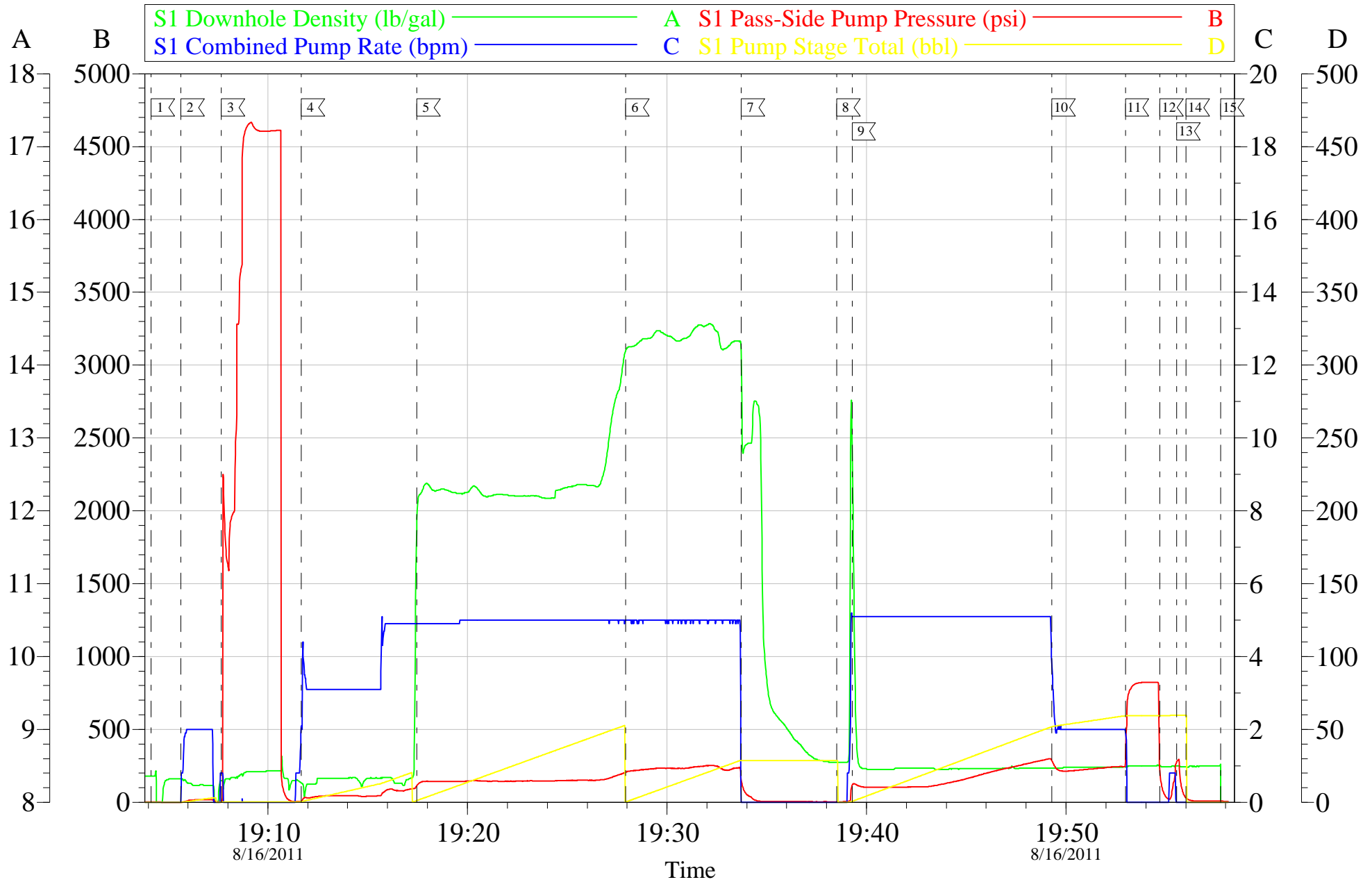
Job Date: 16-Aug-2011  
Job Type: SURFACE  
Cement Supervisor: MIKE MAGERS

Sales Order #: 8382268  
ADC Used: YES  
Elite #: 7 DAN SINCLAIR

OptiCem v6.3.4  
16-Aug-11 20:08

# BILL BARRETT PRO PETRO

## 9.625 SURFACE



Customer: BILL BARRETT PRO PETRO  
 Well Description: KAUFMAN 32C-24-692  
 Company Rep: JOSH HENDERSON

Job Date: 16-Aug-2011  
 Job Type: SURFACE  
 Cement Supervisor: MIKE MAGERS

Sales Order #: 8382268  
 ADC Used: YES  
 Elite #: 7 DAN SINCLAIR

OptiCem v6.3.4  
 16-Aug-11 20:08

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
6	Test Lines	5000.0				
9	H2O Spacer	20.0	3 bbls/min			
13	Pump Lead Cement	50.9	120	12.3	2.38	13.77
15	Pump Tail Cement	30.6	120	14.2	1.43	6.85
48	Shut Down					
32	Drop Plug					
23	Pump Frsh Wtr Displacement	62.2	5 bbls/min			
1085	Slow Rate	52.0	2 bbls/min			
26	Bump Plug	208 PSI	Plus	500	Over	708 PSI
511	Check Floats					
2	Release Psi / Job Over					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
62.21	835.7	45.20		790.50	0.0787	170
PSI to Lift Pipe	301	***** <u>Use Mud Scales on Each Tier</u> *****				
Total Displacement	62.21					
CALCULATED DIFFERENTIAL PSI		206		TOTAL FLUID PUMPED		164
Collapse	2020	BURST	3520		SO#	8382268



<b>Sales Order #:</b> 8382268	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/16/2011
<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> 05-045-19912
<b>Well Name:</b> Kaufman		<b>Well Number:</b> 32C-24-692
<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	8/16/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MICHAEL MAGERS (HX13672)
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> 8382268	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/16/2011
<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> 05-045-19912
<b>Well Name:</b> Kaufman		<b>Well Number:</b> 32C-24-692
<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>	8/16/2011
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>	1.5
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>	1
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>	Workover
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	4
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> 8382268	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/16/2011
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<b>Customer Representative:</b> JOSH HENDERSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-19912
<b>Well Name:</b> Kaufman		<b>Well Number:</b> 32C-24-692
<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	93
<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	95
<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