

**HALLIBURTON**

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**BILL BARRETT CORPORATION E-BILL**

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**KAUFMAN 24C-24-692  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing  
16-Jun-2011**

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2858897	<b>Quote #:</b>	<b>Sales Order #:</b> 8235665
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> South, Jody	
<b>Well Name:</b> KAUFMAN		<b>Well #:</b> 24C-24-692	<b>API/UWI #:</b> 05-045-19650
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.51 deg. OR N 39 deg. 30 min. 37.393 secs.		<b>Long:</b> W 107.615 deg. OR W -108 deg. 23 min. 7.04 secs.	
<b>Contractor:</b> PATTERSON 307		<b>Rig/Platform Name/Num:</b> PATTERSON 307	
<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> KUKUS, CRAIG	<b>MBU ID Emp #:</b> 369124

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BECK, MICHAEL George	10.5	489151	BURKE, BRENDAN Patrick	5.5	487782	KUKUS, CRAIG A	10.5	369124
WYCKOFF, RYAN Scott	10.5	476117						

**Equipment**

HES Unit #	Distance-1 way						
10829469	120 mile	10867094	120 mile	10872429	120 mile	11018454	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
6/15/11	5.5	0	6/16/11	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
<b>Form Type</b>	BHST		<b>On Location</b>	15 - Jun - 2011	17:31	MST
<b>Job depth MD</b>	850. ft	<b>Job Depth TVD</b>	850. ft	<b>Job Started</b>	16 - Jun - 2011	03:02
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	4. ft	<b>Job Completed</b>	16 - Jun - 2011	03:55
<b>Perforation Depth (MD)</b>	From	To	<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
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>											

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

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	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	4	13.77
	13.77 Gal	FRESH WATER							
3	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		62.00	bbl	.	.0	.0	6	
Calculated Values		Pressures		Volumes					
Displacement	62	Shut In: Instant		Lost Returns	0	Cement Slurry	81.3	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	23	Actual Displacement	62	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	163
Rates									
Circulating	NONE	Mixing	4	Displacement	6	Avg. Job	5		
Cement Left In Pipe	Amount	44.8 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>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
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<b>Contractor:</b> PATTERSON 307		<b>Rig/Platform Name/Num:</b> PATTERSON 307	
<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> KUKUS, CRAIG	<b>MBU ID Emp #:</b> 369124

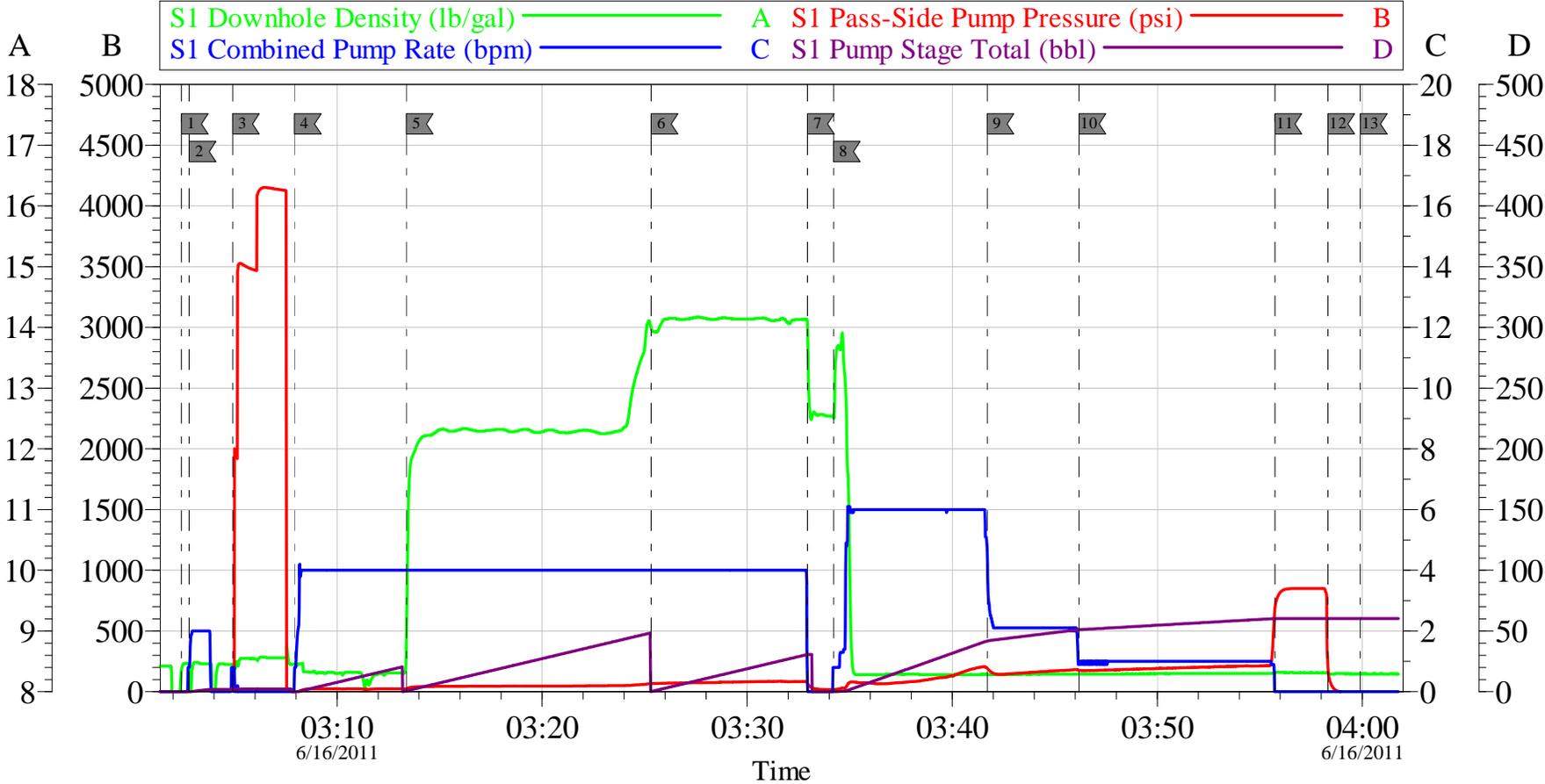
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/15/2011 17:31							CREW STAYED ON LOCATION
Arrive At Loc	06/15/2011 17:31							CREW STAYED ON LOCATION FOR NEXT JOB
Assessment Of Location Safety Meeting	06/16/2011 02:00							ASSESSMENT OF LOCATION INVOLVING THE ENTIRE CMT CREW
Circulate Well	06/16/2011 02:00							RIG DONE RUNNING CSG / NO CIRCULATION
Pre-Rig Up Safety Meeting	06/16/2011 02:15							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Up Equipment	06/16/2011 02:30							RESET HEAD TO NEXT WELL AND RIG UP IRON / LOAD PLUG
Pre-Job Safety Meeting	06/16/2011 02:45							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	06/16/2011 03:02							T D 850 FT TP 837.45 FT SJ 44.8 FT OH 12 1/4 IN MUD WT 8.3# PIPE 9 5/8 IN 36 # J-55
Other	06/16/2011 03:02		2	2			14.0	FILL LINES FRESH WATER
Pressure Test	06/16/2011 03:04		0.5			4000.0		PRESSURE TEST GOOD
Pump Spacer 1	06/16/2011 03:07		4	20			41.0	PUMP FRESH WATER SPACER
Pump Lead Cement	06/16/2011 03:13		4	50.8			64.0	PUMP 120 SKS LEAD CEMENT AT 12.3 PPG 2.38 Y 13.75 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	06/16/2011 03:25		4	30.5			102.0	PUMP 120 SKS TAIL CEMENT AT 14.2 PPG 1.43 Y 6.85 GAL/SK / GOT RETURNS AT 19 BBLs TAIL CEMENT GONE
Shutdown	06/16/2011 03:32							
Drop Top Plug	06/16/2011 03:32							PLUG LEFT THE PLUG CONTAINER
Pump Displacement	06/16/2011 03:34		6	61.3			222.0	PUMP H2O DISPLACEMENT
Slow Rate	06/16/2011 03:41		2	40			196.0	SLOWED RATE AT 40 BBLs GONE / GOT CEMENT BACK TO SURFACE AT 36 BBLs DISPLACEMENT GONE / TOTAL TO SURFACE 23 BBLs
Bump Plug	06/16/2011 03:55		1	62			855.0	PLUG LANDED AT 220 PSI
Check Floats	06/16/2011 03:58							FLOATS HELD / GOT 1/2 BBL BACK TO TANKS / AND SHUT IN WELL
End Job	06/16/2011 03:59							
Pre-Rig Down Safety Meeting	06/16/2011 04:00							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Down Equipment	06/16/2011 04:15							RIG DOWN TO CLEAN UP LINE TO PIT AND SHUT DOWN
Comment	06/16/2011 05:00							THANK YOU FOR USING HALLIBURTON, CRAIG KUKUS AND CREW

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		<b>MAX</b> <u><b>1616</b></u>			
	FILL LINES	2				
6	Test Lines	3500.0				
9	H2O Spacer	20.0		8.3		
13	LEAD CEMENT	50.8	120	12.3	2.38	13.75
15	TAIL CEMENT	30.5	120	14.2	1.43	6.85
	SHUTDOWN					
	DROP TOP PLUG					
25	H2O DISPLACE	61.3		8.3		
	SLOW RATE	40.0		slow	2BBL	
	LAND PLUG	218.0	PLUS	500	OVER	
	CHECK FLOATS					
	END JOB		<b>Do Not Overdisplace</b>			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
61.30	837.45	44.80		792.65	.0773	200
PSI TO LIFT	362	<b>*****Use Mud Scales on Each Tier*****</b>				
Total Displacement	61.30					
CALCULATED PSI LAND		218	TOTAL FLUID PUMPED		163	
Collapse	2020	Burst	3520		SO#	8235665

# BARRETT

## SURFACE KAUFMAN 24C-24-692

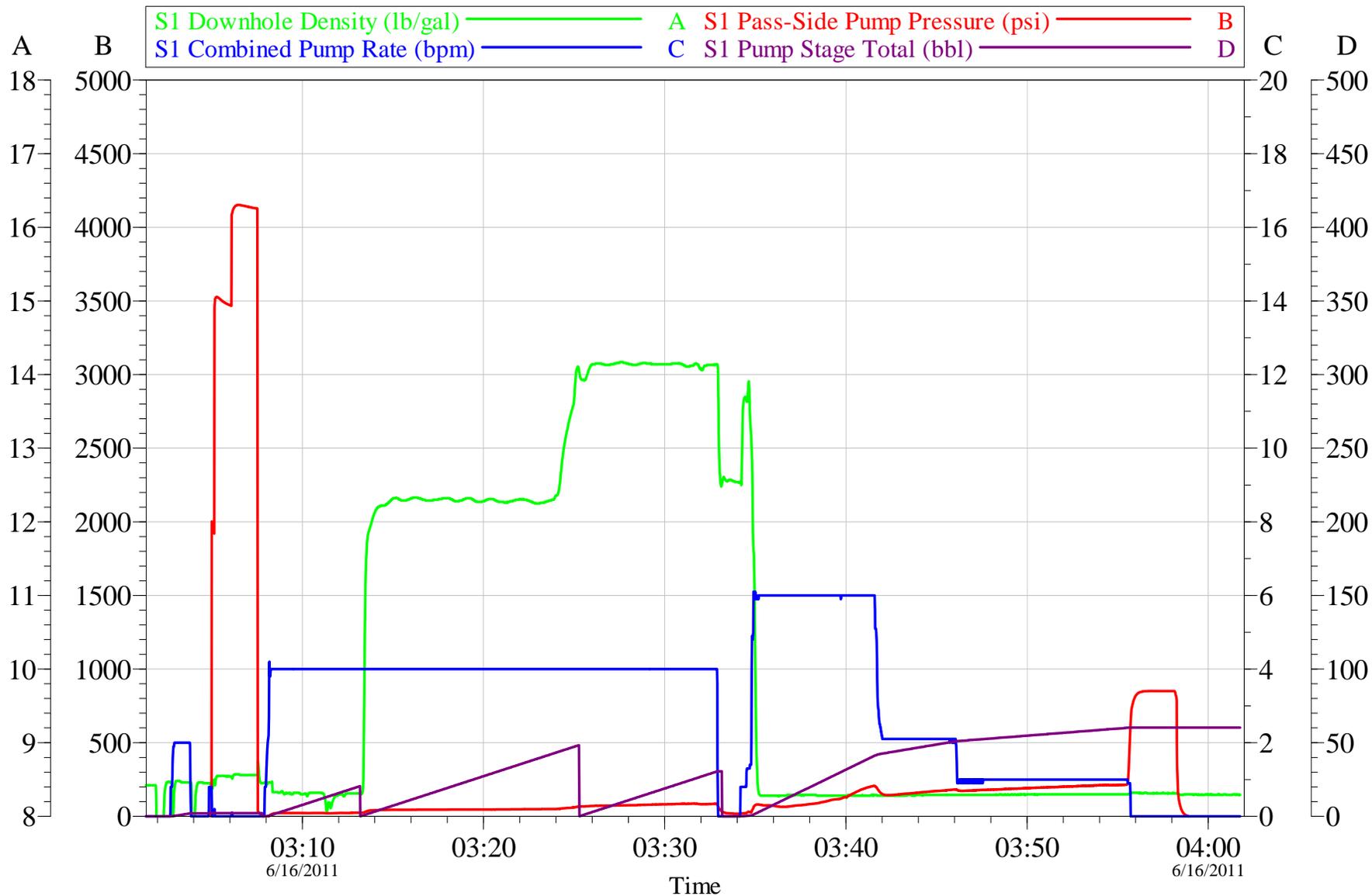


Local Event Log			
1 START JOB	03:02:24	2 PRIME LINES	03:02:47
		3 PRESSURE TEST	03:04:54
4 PUMP H2O SPACER	03:07:55	5 PUMP LEAD CEMENT	03:13:23
		6 PUMP TAIL CEMENT	03:25:19
7 SHUT DOWN/DROP PLUG	03:32:57	8 PUMP H2O DISPLACEMENT	03:34:12
		9 SLOW RATE	03:41:42
10 SLOW RATE	03:46:11	11 BUMP PLUG	03:55:44
		12 CHECK FLOATS	03:58:19
13 END JOB	03:59:54		

Customer: <b>BARRETT</b>	Job Date: <b>16-Jun-2011</b>	Sales Order #: <b>8235665</b>
Well Description: <b>KAUFMAN 24C-24-692</b>	Job Type: <b>SURFACE</b>	ADC Used: <b>YES</b>
Company Rep: <b>JOSH HENDERSON</b>	Cement Supervisor: <b>CRAIG KUKUS</b>	Elite #/Operator: <b>ELITE 7 RYAN WYCKOFF</b>

# BARRETT

## SURFACE KAUFMAN 24C-24-692



Customer: <b>BARRETT</b>	Job Date: <b>16-Jun-2011</b>	Sales Order #: <b>8235665</b>
Well Description: <b>KAUFMAN 24C-24-692</b>	Job Type: <b>SURFACE</b>	ADC Used: <b>YES</b>
Company Rep: <b>JOSH HENDERSON</b>	Cement Supervisor: <b>CRAIG KUKUS</b>	Elite #/Operator: <b>ELITE 7 RYAN WYCKOFF</b>

# HALLIBURTON

## Water Analysis Report

Company: BARRETT  
Submitted by: CRAIGKUKUS  
Attention: \_\_\_\_\_  
Lease KAUFMAN  
Well # 24C-24-692

Date: 6/16/2011  
Date Rec.: 6/16/2011  
S.O.# 8235665  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250</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>120</i> Mg / L
Temp	<i>40-80</i>	<i>65</i> Deg
Total Dissolved Solids		<i>240</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> 8235665	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 6/16/2011
<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> 05-045-19650
<b>Well Name:</b> KAUFMAN		<b>Well Number:</b> 24C-24-692
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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	6/16/2011
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.	

<b>CUSTOMER SIGNATURE</b>
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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	6/16/2011
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>	2.5
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>	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

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<b>H2S Present:</b>	<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	99
<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	99
<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