
BILL BARRETT CORPORATION E-BILL

**KAUFMAN 21C-25-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
08-Dec-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2894960	Quote #:	Sales Order #: 9112144
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lauer, Casey	
Well Name: KAUFMAN		Well #: 21C-25-692	API/UWI #: 05-045-21147
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Lat: N 39.502 deg. OR N 39 deg. 30 min. 8.773 secs.		Long: W 100.618 deg. OR W -101 deg. 22 min. 53.839 secs.	
Contractor: PROPETRO		Rig/Platform Name/Num: PROPETRO	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	6	439784	BRENNECKE, ANDREW Bailey	6	486345	RAMSEY, STANTON Michael	6	477609

Equipment

HES Unit #	Distance-1 way						
10783493	120 mile	10822007	120 mile	11360871	120 mile	11542767	120 mile
11583933	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12.8.2011	6	2						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type		BHST	On Location	08 - Dec - 2011	03:30	MST
Job depth MD	745. ft	Job Depth TVD	Job Started	08 - Dec - 2011	07:05	MST
Water Depth		Wk Ht Above Floor	Job Completed	08 - Dec - 2011	07:53	MST
Perforation Depth (MD)	From	To	Departed Loc	08 - Dec - 2011	09:30	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
Open Hole				12.387				.	745.		
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	727.8		

Sales/Rental/3rd 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					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 ³ /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	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	6	13.77
	0.25 lbm	POLY-E-FLAKE (101216940)							
	13.77 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	6	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT		52.00	bbl	8.4			6	
Calculated Values		Pressures			Volumes				
Displacement	52.8	Shut In: Instant		Lost Returns		Cement Slurry	81.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	17	Actual Displacement	52.8	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	154.2
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
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

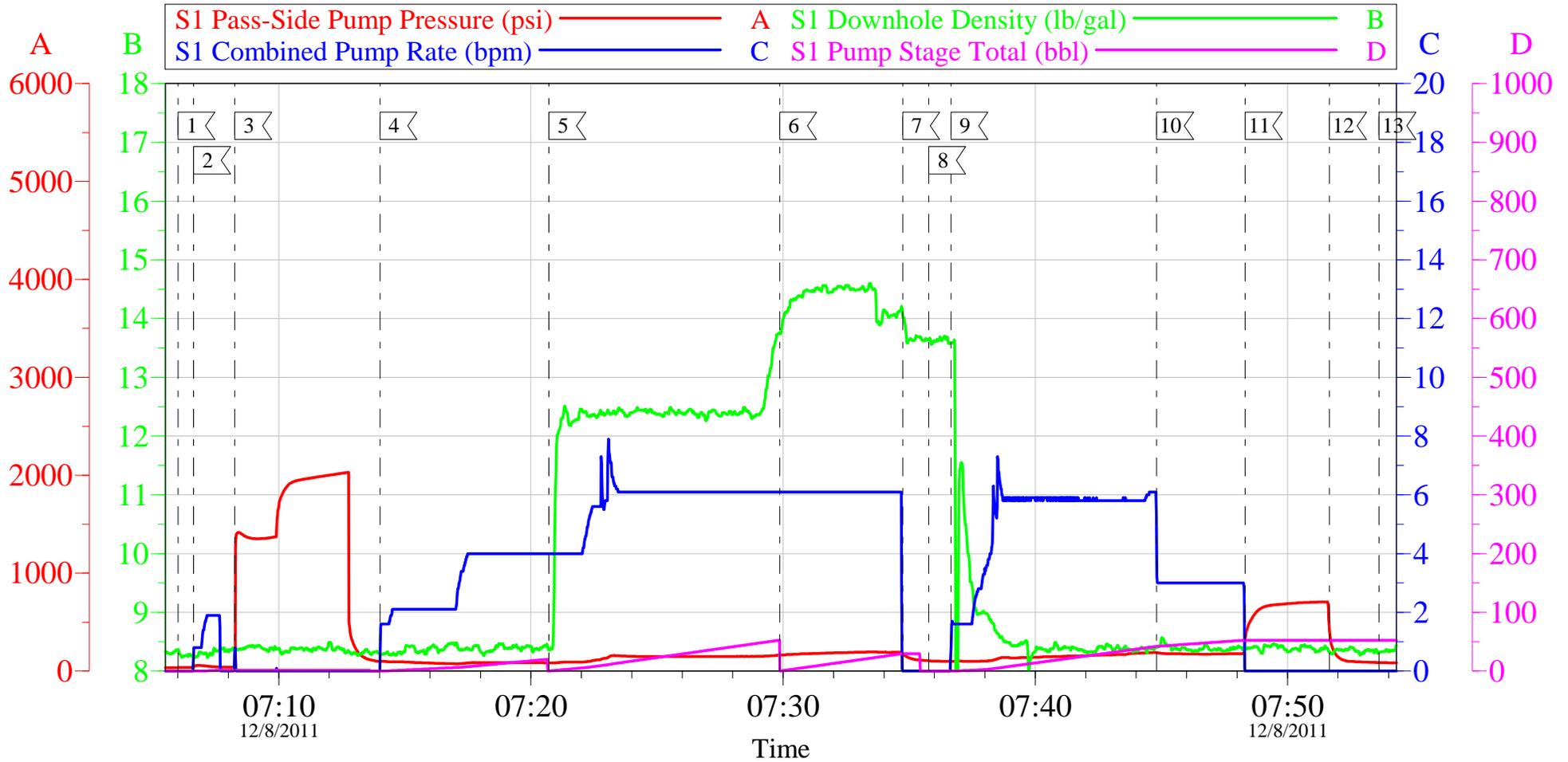
Sold To #: 343492	Ship To #: 2894960	Quote #:	Sales Order #: 9112144
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lauer, Casey	
Well Name: KAUFMAN		Well #: 21C-25-692	API/UWI #: 05-045-21147
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.502 deg. OR N 39 deg. 30 min. 8.773 secs.		Long: W 100.618 deg. OR W -101 deg. 22 min. 53.839 secs.	
Contractor: PROPETRO		Rig/Platform Name/Num: PROPETRO	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/07/2011 21:00							Crew returning from service center with new bulk truck. Pump truck stayed on location. No add hours.
Pre-Convoy Safety Meeting	12/08/2011 00:45							Including entire cement crew.
Crew Leave Yard	12/08/2011 01:00							
Arrive At Loc	12/08/2011 03:15							
Assessment Of Location Safety Meeting	12/08/2011 03:20							Water; PH 7; KCL 250; So4 <200; Fe 3; Calcium 120; Chlorides 0; Temp 40; TDS 190.
Pre-Rig Up Safety Meeting	12/08/2011 06:20							Including entire cement crew.
Rig-Up Equipment	12/08/2011 06:25							1 Elite # 1; 1 660 bulk truck; 1 hard line to well head; 1 line to upright, 9 5/8" screw in head
Rig-Up Completed	12/08/2011 06:45							
Pre-Job Safety Meeting	12/08/2011 06:50							Including everyone on location.
Start Job	12/08/2011 07:05							TD 745; TP 727.83; SJ 45.2; OH 12 3/8; Casing 9.625" 36# J-55; Air Drilled Hole.
Pump Water	12/08/2011 07:06		2	2			50.0	Fill lines with fresh water.
Test Lines	12/08/2011 07:08						1970.0	Good pressure test, no leaks.
Pump Spacer 1	12/08/2011 07:14		4	20			86.0	20 BBL fresh water spacer.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	12/08/2011 07:20		6	50.8			160.0	120 sks Lead Cement, 12.3 ppg, 2.38 cf3, 13.77 gal/sk.
Pump Tail Cement	12/08/2011 07:29		6	30.6			170.0	120 sks Tail Cement, 14.2 ppg, 1.43 cf3, 6.85 gal/sk.
Shutdown	12/08/2011 07:34							
Drop Plug	12/08/2011 07:35							Plug left container.
Pump Displacement	12/08/2011 07:36		6	42.8			188.0	Fresh water displacement.
Slow Rate	12/08/2011 07:44		3	10			180.0	Slow rate 10 BBL's prior to bumping the plug.
Bump Plug	12/08/2011 07:48				52.8		704.0	Bumped plug, took 500 PSI over.
Check Floats	12/08/2011 07:51							Floats held, .5 BBL back. 17 BBL's Good cement to surface.
End Job	12/08/2011 07:53							
Pre-Rig Down Safety Meeting	12/08/2011 08:00							Including entire cement crew.
Rig-Down Equipment	12/08/2011 08:05							
Rig-Down Completed	12/08/2011 09:00							
Pre-Convoy Safety Meeting	12/08/2011 09:15							Including entire cement crew.
Crew Leave Location	12/08/2011 09:30							Crew leave location for Service Center or another location. Relive coming to relive current crew.
Other	12/08/2011 09:30							Thank You for using Halliburton. Ed Arnold and Crew.

BILL BARRETT - KAUFMAN 21C-25-692

9 5/8" SURFACE



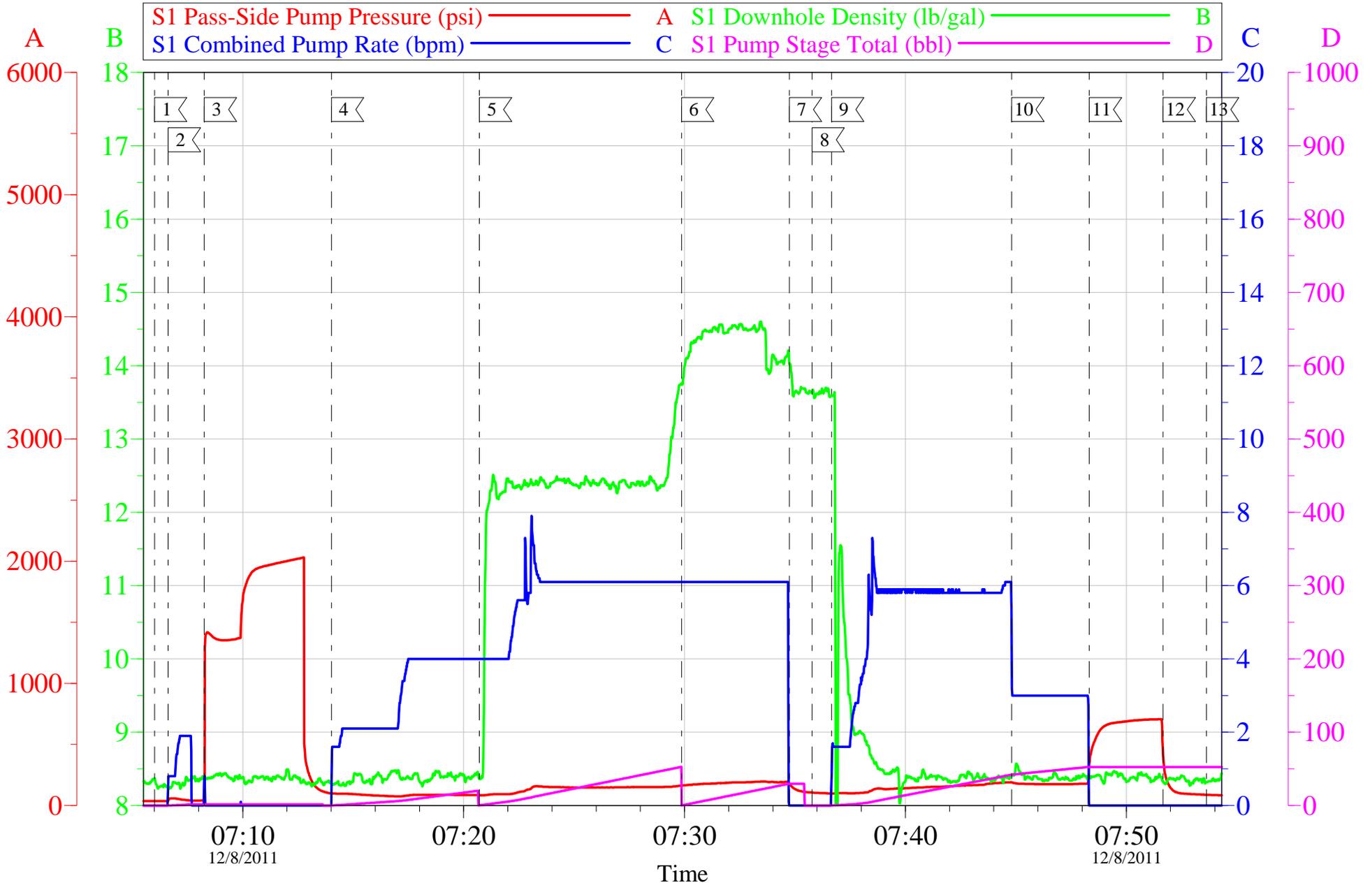
Local Event Log								
1	START JOB	07:06:00	2	FILL LINES	07:06:37	3	TEST LINES	07:08:15
4	H2O SPACER	07:14:01	5	LEAD CEMENT	07:20:43	6	TAIL CEMENT	07:29:52
7	SHUT DOWN	07:34:44	8	DROP PLUG	07:35:46	9	H2O DISPLACEMENT	07:36:39
10	SLOW RATE	07:44:49	11	BUMP PLUG	07:48:19	12	CHECK FLOATS	07:51:40
13	END JOB	07:53:38						

Customer:	Bill Barrett	Job Date:	08-Dec-2011	Sales Order #:	9112144
Well Description:	Kaufman 21C-25-692	Job Type:	Surface	ADC Used:	Yes
Company Rep:	Casey Lauer	Cement Supervisor:	Ed Arnold	Elite #1:	Andrew Brennecke

OptiCem v6.4.10
08-Dec-11 08:06

BILL BARRETT - KAUFMAN 21C-25-692

9 5/8" SURFACE



Customer: Bill Barrett	Job Date: 08-Dec-2011	Sales Order #: 9112144
Well Description: Kaufman 21C-25-692	Job Type: Surface	ADC Used: Yes
Company Rep: Casey Lauer	Cement Supervisor: Ed Arnold	Elite #1: Andrew Brennecke

OptiCem v6.4.10
08-Dec-11 08:07

HALLIBURTON

Water Analysis Report

Company:	<u>Bill Barrett</u>	Date:	<u>12/8/2011</u>
Submitted by:	<u>ED ARNOLD</u>	Date Rec.:	<u>12/8/2011</u>
Attention:	<u>J.TROUT</u>	S.O.#	<u>9112144</u>
Lease	<u>Kaufman</u>	Job Type:	<u>Surface</u>
Well #	<u>21C-25-692</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	40 Deg
Total Dissolved Solids		190 Mg / L

Respectfully: ED ARNOLD

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 use

Sales Order #: 9112144	Line Item: 10	Survey Conducted Date: 12/8/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-21147
Well Name: KAUFMAN		Well Number: 21C-25-692
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: 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	12/8/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
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	

CUSTOMER SIGNATURE

Sales Order #: 9112144	Line Item: 10	Survey Conducted Date: 12/8/2011
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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-21147
Well Name: KAUFMAN		Well Number: 21C-25-692
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	12/8/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	2
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Well Name: KAUFMAN		Well Number: 21C-25-692
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	93
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate 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	97
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0