
BILL BARRETT CORPORATION E-BILL

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

Cement Surface Casing
07-Dec-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492		Ship To #: 2894957		Quote #:		Sales Order #: 9112140	
Customer: BILL BARRETT CORPORATION E-BILL				Customer Rep: Lauer, Casey			
Well Name: KAUFMAN			Well #: 21D-25-692			API/UWI #: 05-045-21150	
Field: MAMM CREEK		City (SAP): UNKNOWN		County/Parish: Garfield		State: Colorado	
Lat: N 39.502 deg. OR N 39 deg. 30 min. 8.705 secs.				Long: W 107.618 deg. OR W -108 deg. 22 min. 53.785 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 #
ANDREWS, ANTHONY Michael	12	321604	ARNOLD, EDWARD John	12	439784	BRENNECKE, ANDREW Bailey	12	486345
RAMSEY, STANTON Michael	12	477609						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10533645	120 mile	11139328	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
12.7.2011	12	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	07 - Dec - 2011	08:30	MST
Form Type	BHST		Job Started	07 - Dec - 2011	18:42	MST
Job depth MD	745. ft	Job Depth TVD	Job Completed	07 - Dec - 2011	19:29	MST
Water Depth		Wk Ht Above Floor	Departed Loc	07 - Dec - 2011	20:45	MST
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
Open Hole				12.387				.	745.		
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	727.1		

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	SWIFTCES (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	52.6	Shut In: Instant		Lost Returns	0	Cement Slurry	81.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	18	Actual Displacement	52.6	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	154
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	44.73 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

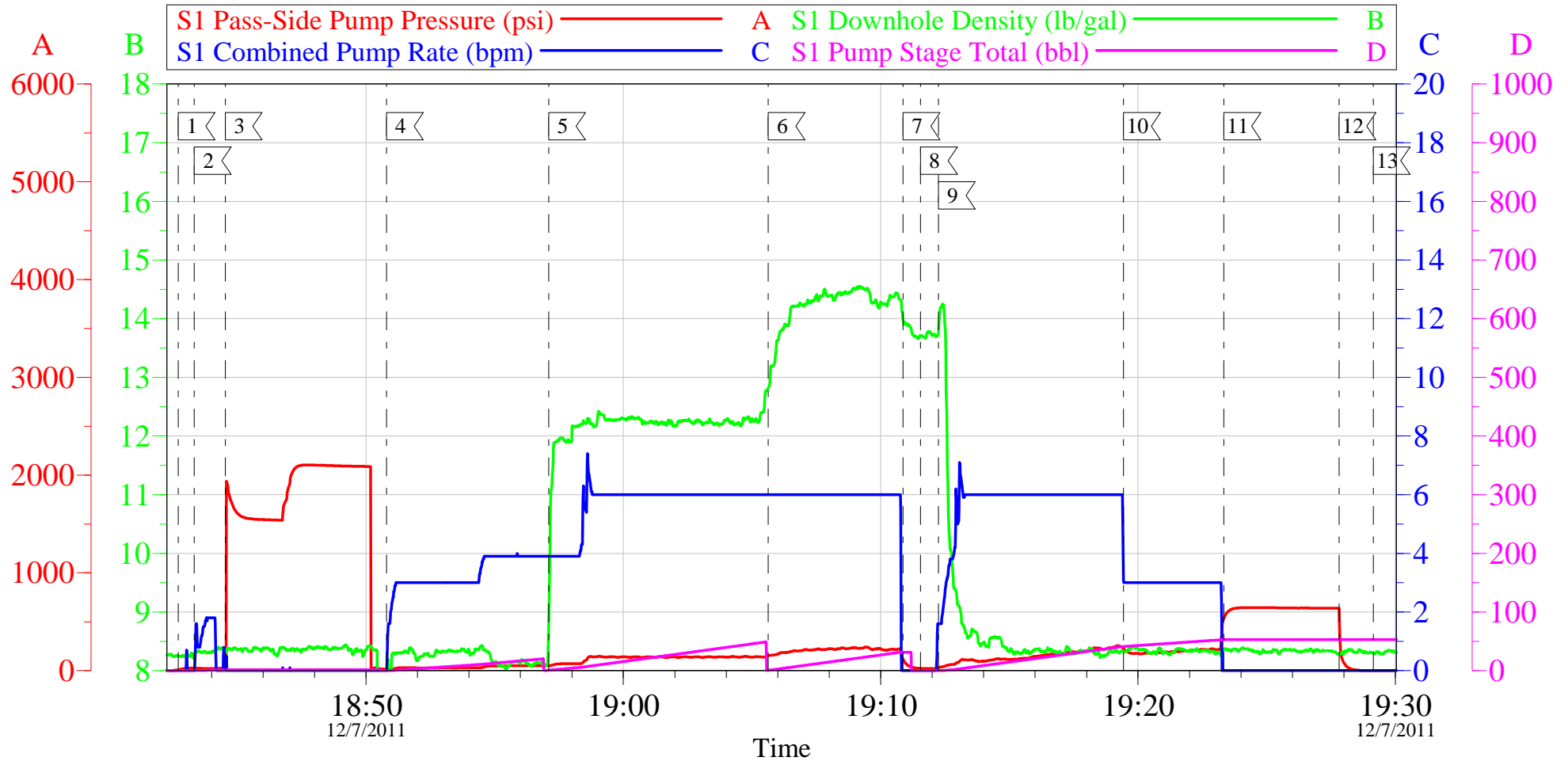
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Well Name: KAUFMAN	Well #: 21D-25-692	API/UWI #: 05-045-21150	
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.502 deg. OR N 39 deg. 30 min. 8.705 secs.		Long: W 107.618 deg. OR W -108 deg. 22 min. 53.785 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		Srv 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 08:30							Crew on location from previous job. Pump stayed on location. No add hours.
Assessment Of Location Safety Meeting	12/07/2011 08:35							Water; PH 7; KCL 250; So4 <200; Fe 3; Calcium 120; Chlorides 0; Temp 40; TDS 190.
Pre-Rig Up Safety Meeting	12/07/2011 18:10							Including entire cement crew.
Rig-Up Equipment	12/07/2011 18:15							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	12/07/2011 18:25							
Pre-Job Safety Meeting	12/07/2011 18:30							Including everyone on location.
Start Job	12/07/2011 18:42							TD 745; TP 727.05; SJ 445.73; OH 12 3/8; Casing 9.625" 36# J-55; Air Drilled Hole.
Pump Water	12/07/2011 18:43		2	2			20.0	Fill lines with fresh water.
Test Lines	12/07/2011 18:44					2100.0		Good pressure test, no leaks.
Pump Spacer 1	12/07/2011 18:50		4	20			50.0	20 BBL fresh water spacer.
Pump Lead Cement	12/07/2011 18:57		6	50.8			156.0	120 sks Lead Cement, 12.3 ppg, 2.38 cf3, 13.77 gal/sk.
Pump Tail Cement	12/07/2011 19:05		6	30.6			145.0	120 sks Tail Cement, 14.2 ppg, 1.43 cf3, 6.85 gal/sk.
Shutdown	12/07/2011 19:10							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Plug	12/07/2011 19:11							Plug left container.
Pump Displacement	12/07/2011 19:12		6	42.6			225.0	Fresh water displacement.
Slow Rate	12/07/2011 19:19		3	10			218.0	Slow rate 10 BBL's prior to bumping the plug.
Bump Plug	12/07/2011 19:23				52.6		644.0	Bumped plug, took 500 PSI over.
Check Floats	12/07/2011 19:27							Floats held, .5 BBL back. 18 BBL's good cement to surface.
End Job	12/07/2011 19:29							
Pre-Rig Down Safety Meeting	12/07/2011 19:35							Including entire cement crew.
Rig-Down Equipment	12/07/2011 19:40							
Rig-Down Completed	12/07/2011 20:30							
Pre-Convoy Safety Meeting	12/07/2011 20:40							Including entire cement crew.
Crew Leave Location	12/07/2011 20:45							Crew leave location for Service Center to pick up new bulk trucks.
Other	12/07/2011 20:45							Thank You for using Halliburton. Ed Arnold and Crew.

BILL BARRETT - KAUFMAN 21D-25-692

9 5/8" SURFACE



Local Event Log

1 START JOB	18:42:42	2 FILL LINES	18:43:19	3 TEST LINES	18:44:32
4 H2O SPACER	18:50:48	5 LEAD CEMENT	18:57:06	6 TAIL CEMENT	19:05:38
7 SHUT DOWN	19:10:52	8 DROP PLUG	19:11:33	9 H2O DISPLACEMENT	19:12:15
10 SLOW RATE	19:19:26	11 BUMP PLUG	19:23:20	12 CHECK FLOATS	19:27:49
13 END JOB	19:29:08				

Customer: Bill Barrett
Well Description: Kaufman 21D-25-692
Company Rep: Casey Lauer

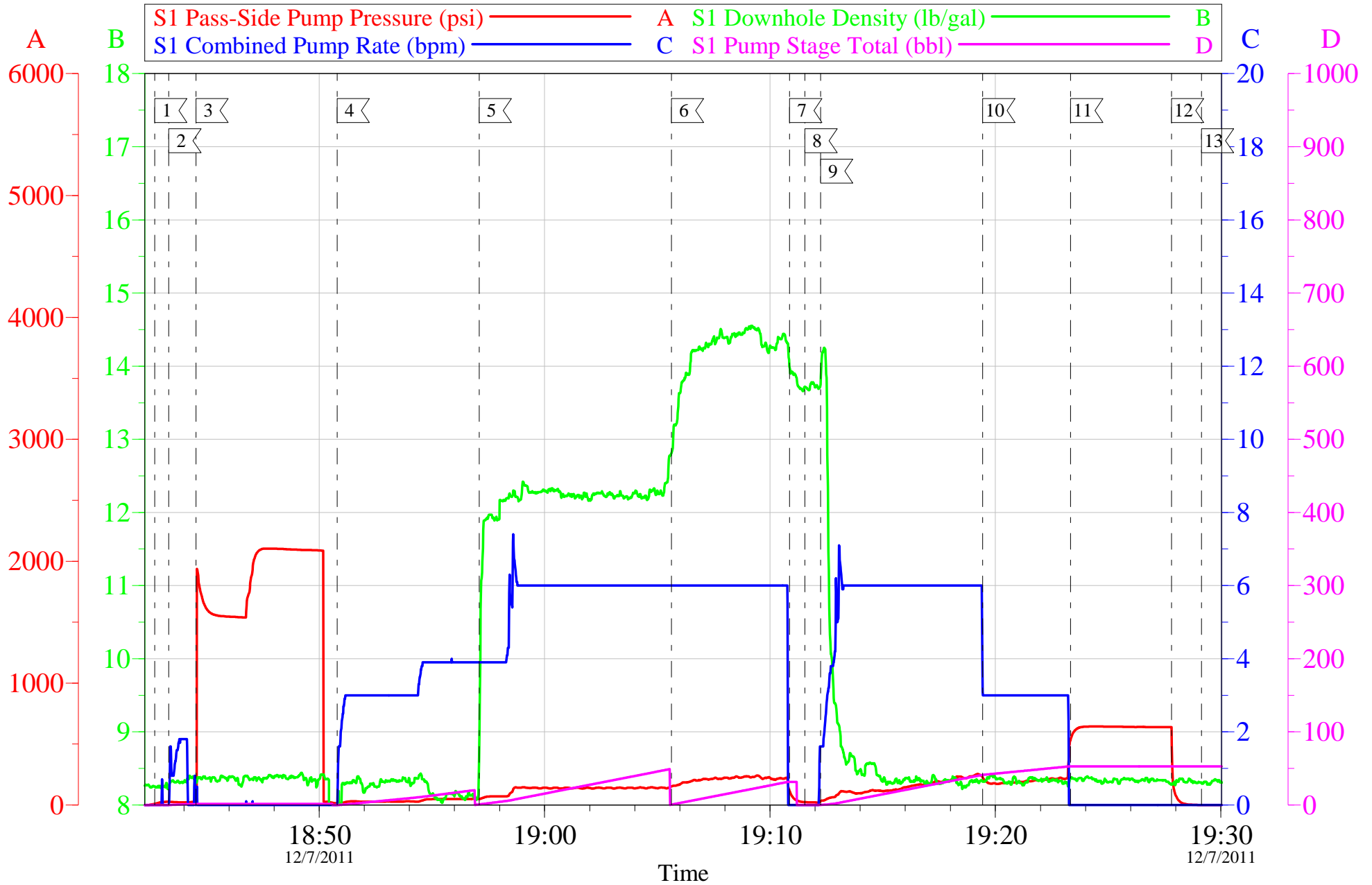
Job Date: 07-Dec-2011
Job Type: Surface
Cement Supervisor: Ed Arnold

Sales Order #: 9112140
ADC Used: Yes
Elite #1: Andrew Brennecke

OptiCem v6.4.10
07-Dec-11 19:41

BILL BARRETT - KAUFMAN 21D-25-692

9 5/8" SURFACE



Customer: Bill Barrett
Well Description: Kaufman 21D-25-692
Company Rep: Casey Lauer

Job Date: 07-Dec-2011
Job Type: Surface
Cement Supervisor: Ed Arnold

Sales Order #: 9112140
ADC Used: Yes
Elite #1: Andrew Brennecke

OptiCem v6.4.10
07-Dec-11 19:44

HALLIBURTON

Water Analysis Report

Company:	Bill Barrett	Date:	12/7/2011
Submitted by:	ED ARNOLD	Date Rec.:	12/7/2011
Attention:	J.TROUT	S.O.#	9112140
Lease	Kaufman	Job Type:	Surface
Well #	21D-25-692		

Specific Gravity	MAX	1
pH	8	7
Potassium (K)	5000	250 Mg / L
Calcium (Ca)	500	120 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO ₄)	1500	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	40-80	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 #: 9112140	Line Item: 10	Survey Conducted Date: 12/7/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-21150
Well Name: KAUFMAN		Well Number: 21D-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 #: 9112140	Line Item: 10	Survey Conducted Date: 12/7/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-21150
Well Name: KAUFMAN		Well Number: 21D-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 The date the survey was conducted	12/7/2011

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

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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-21150
Well Name: KAUFMAN		Well Number: 21D-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	97
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	98
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