
BILL BARRETT CORPORATION E-BILL

**CBS 32B-21-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
11-Nov-2011

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2889251	Quote #:	Sales Order #: 9043548
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: CBS	Well #: 32B-21-692	API/UWI #: 08-045-20120	
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.434 secs.	Long: W 107.671 deg. OR W -108 deg. 19 min. 43.536 secs.		
Contractor: PROPETRO	Rig/Platform Name/Num: PROPETRO		
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 #
BURKE, BRENDAN Patrick	13	487782	HUGENTOBLE, LOGAN Mark	13	447333	SILVERTHORN, AARON Jacob	13	491305

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867304	mile	10998054	mile	11560046	mile	11562538	mile
11583932	mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/10/11	10	1	11/11/11	3	1			
TOTAL	Total is the sum of each column separately							

Job

Formation Name	Job	Job Times	Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom	Called Out	10 - Nov - 2011	10:00 MST
Form Type	BHST	On Location	10 - Nov - 2011	14:00	MST
Job depth MD	810. ft	Job Depth TVD	810. ft	Job Started	10 - Nov - 2011 23:34 MST
Water Depth	Wk Ht Above Floor	1. ft	Job Completed	11 - Nov - 2011	00:25 MST
Perforation Depth (MD)	From	To	Departed Loc	11 - Nov - 2011	02:30 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
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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	6	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	6	13.77
	13.77 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	6	6.85
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT		57.00	bbl	8.33			6	
Calculated Values		Pressures		Volumes					
Displacement	57	Shut In: Instant		Lost Returns		Cement Slurry	80	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	27	Actual Displacement	57	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	44 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: CBS	Well #: 32B-21-692	API/UWI #: 08-045-20120	
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.434 secs.		Long: W 107.671 deg. OR W -108 deg. 19 min. 43.536 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: METLI, MARSHALL		Srv Supervisor: HUGENTOBLE, LOGAN	MBU ID Emp #: 447333

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/10/2011 10:00							
Pre-Convoy Safety Meeting	11/10/2011 11:50							ALL HES EMPLOYEES
Arrive At Loc	11/10/2011 14:00							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	11/10/2011 21:45							ALL HES EMPLOYEES
Rig-Up Equipment	11/10/2011 22:00							1 HT-400 PUMP TRUCK, 1 660 BULK TRUCK, 1 F-550 P/U, 1 PLUG CONTAINER
Pre-Job Safety Meeting	11/10/2011 23:20							ALL HES EMPLOYEES, RIG CREW, CO REP AND ANY 3RD PARTY VENDORS
Start Job	11/10/2011 23:34							TP 783FT, TD 810 FT, FC 739 FT, HOLE 12.25", MUD WT AIR, RATE WILL BE 6, WILL BUMP 500 PSI OVER LAND PSI
Pump Water	11/10/2011 23:35		2	2			22.0	FILL LINES PRIOR TO PRESSURE TESTING LINES
Pressure Test	11/10/2011 23:37							NO LEAKS, KICK OUTS SET TO 2000 PSI FOR TEST.
Pump Spacer 1	11/10/2011 23:41		6	20			176.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	11/10/2011 23:49		6	50			199.0	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	11/10/2011 23:57		6	30			221.0	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	11/11/2011 00:03							
Drop Plug	11/11/2011 00:06							PLUG LAUNCHED
Pump Displacement	11/11/2011 00:07		6	57			479.0	FRESH WATER
Slow Rate	11/11/2011 00:15		4				355.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/11/2011 00:18						879.0	PLUG LANDED
Check Floats	11/11/2011 00:20							SHUT IN WELL, 27 BBLS CEMENT TO SURFACE
End Job	11/11/2011 00:25							THANK YOU FOR USING HES LOGAN HUGENTOBLE AND CREW
Post-Job Safety Meeting (Pre Rig-Down)	11/11/2011 00:30							ALL HES EMPLOYEES
Rig-Down Equipment	11/11/2011 00:45							
Pre-Convoy Safety Meeting	11/11/2011 02:20							ALL HES EMPLOYEES
Crew Leave Location	11/11/2011 02:30							LOCATION CLEAN

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT

Submitted by: LOGAN HUGENTOBLER

Attention:

Lease CBS

Well # 32B-21-692

Date: 11/16/2011

Date Rec.: 11/16/2011

S.O.# 9043548

Job Type: 9.625 SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>240</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 ₄)	<i>1500</i>	<i>below 200</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>45</i> Deg
Total Dissolved Solids		<i>280</i> Mg / L

Respectfully: LOGAN HUGENTOBLER

Title: CEMENTING SUPERVISOR

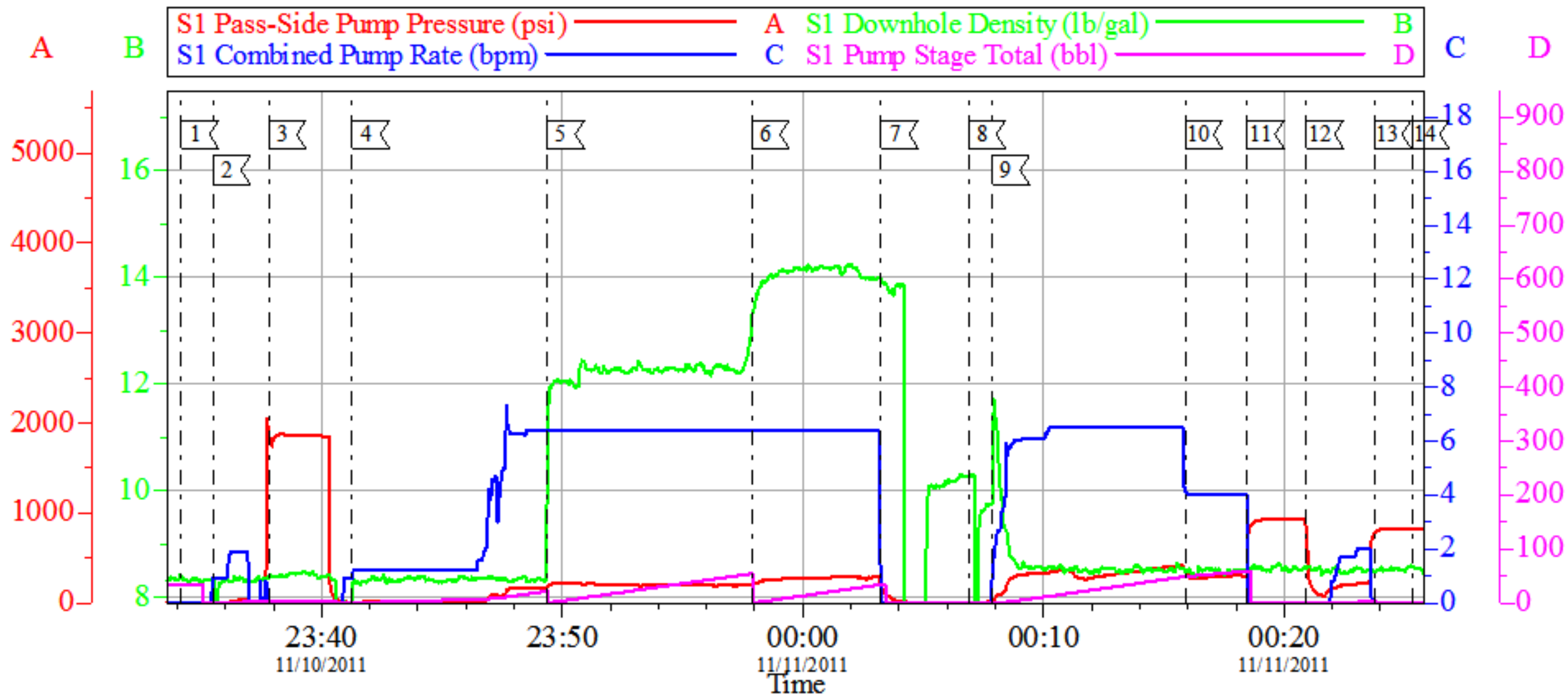
Location: Grand Junction, CO

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 c

BILL BARRETT-32B-21-692

SURFACE



Local Event Log

1	START JOB	11/10/2011 23:34:10	2	PRIME LINES	11/10/2011 23:35:29
3	PRESSURE TEST	11/10/2011 23:37:48	4	PUMP H2O SPACER	11/10/2011 23:41:16
5	PUMP LEAD CEMENT	11/10/2011 23:49:22	6	PUMP TAIL CEMENT	11/10/2011 23:57:53
7	SHUTDOWN	11/11/2011 00:03:15	8	DROP PLUG	11/11/2011 00:06:53
9	PUMP DISPLACEMENT	11/11/2011 00:07:52	10	SLOW RATE	11/11/2011 00:15:54
11	BUMP PLUG	11/11/2011 00:18:27	12	CHECK FLOATS	11/11/2011 00:20:56
13	SHUT-IN WELL	11/11/2011 00:23:44	14	END JOB	11/11/2011 00:25:19

Customer: BILL BARRETT

Well Description: 32B-21-692

Company Rep: CASEY LAUER

Job Date: 10-Nov-2011

Job Type: SURFACE

Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 9043548

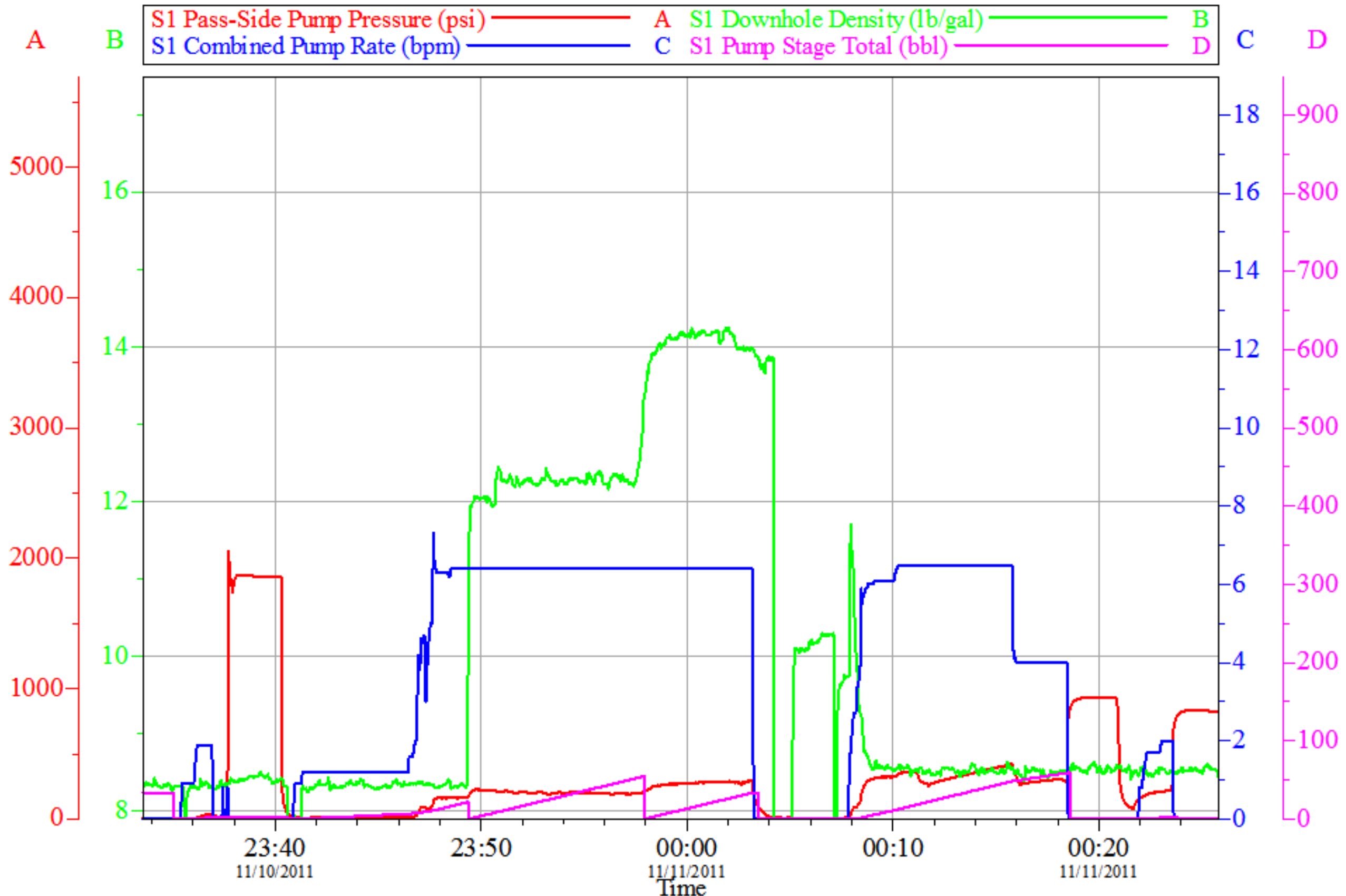
ADC Used: YES

Elite #5: AARON SILVERTHORN

OptiCem v6.4.10
11-Nov-11 00:49

BILL BARRETT-32B-21-692

SURFACE



Customer: BILL BARRETT
Well Description: 32B-21-692
Company Rep: CASEY LAUER

Job Date: 10-Nov-2011
Job Type: SURFACE
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 9043548
ADC Used: YES
Elite #5: AARON SILVERTHORN

OptiCem v6.4.10
11-Nov-11 00:50

Sales Order #: 9043548	Line Item: 10	Survey Conducted Date: 11/11/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 08-045-20120
Well Name: CBS		Well Number: 32B-21-692
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	11/11/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	LOGAN HUGENTOBLER (HB15210)
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 #: 9043548	Line Item: 10	Survey Conducted Date: 11/11/2011
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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 08-045-20120
Well Name: CBS		Well Number: 32B-21-692
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	11/11/2011

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.	5
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	6
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) 08-045-20120
Well Name: CBS		Well Number: 32B-21-692
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	98
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