
BILL BARRETT CORPORATION E-BILL

**EPERLY 23C-23-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
27-Nov-2011

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2890429	Quote #:	Sales Order #: 9064321
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: EPPERLY	Well #: 23C-23-692	API/UWI #: 05-045-20950	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.61 secs.	Long: W 107.641 deg. OR W -108 deg. 21 min. 33.829 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	Srvc Supervisor: CHASTAIN, DERICK	MBU ID Emp #: 455848	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHASTAIN, DERICK Allan	6	455848	LESTER, LEVI William	6	474117	MAGERS, MICHAEL Gerard	12	339439

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10744549	120 mile	10857016	120 mile	10872429	120 mile	10951248	120 mile
11018454	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/27/2011	12	2						

TOTAL Total is the sum of each column separately

Job					Job Times			
Formation Name					Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom			Called Out			
Form Type	BHST				On Location			
Job depth MD	765. ft		Job Depth TVD	765. ft	Job Started	27 - Nov - 2011	11:15	MST
Water Depth			Wk Ht Above Floor	1. ft	Job Completed	27 - Nov - 2011	12:08	MST
Perforation Depth (MD)	From	To			Departed Loc			

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				12.375				.	765.	.	765.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	759.	.	759.

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 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 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		56.00	bbl	8.33			6	
Calculated Values		Pressures		Volumes					
Displacement	55.2	Shut In: Instant		Lost Returns	0	Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	37	Actual Displacement	55.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	157
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job		6	
Cement Left In Pipe	Amount	44.5 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

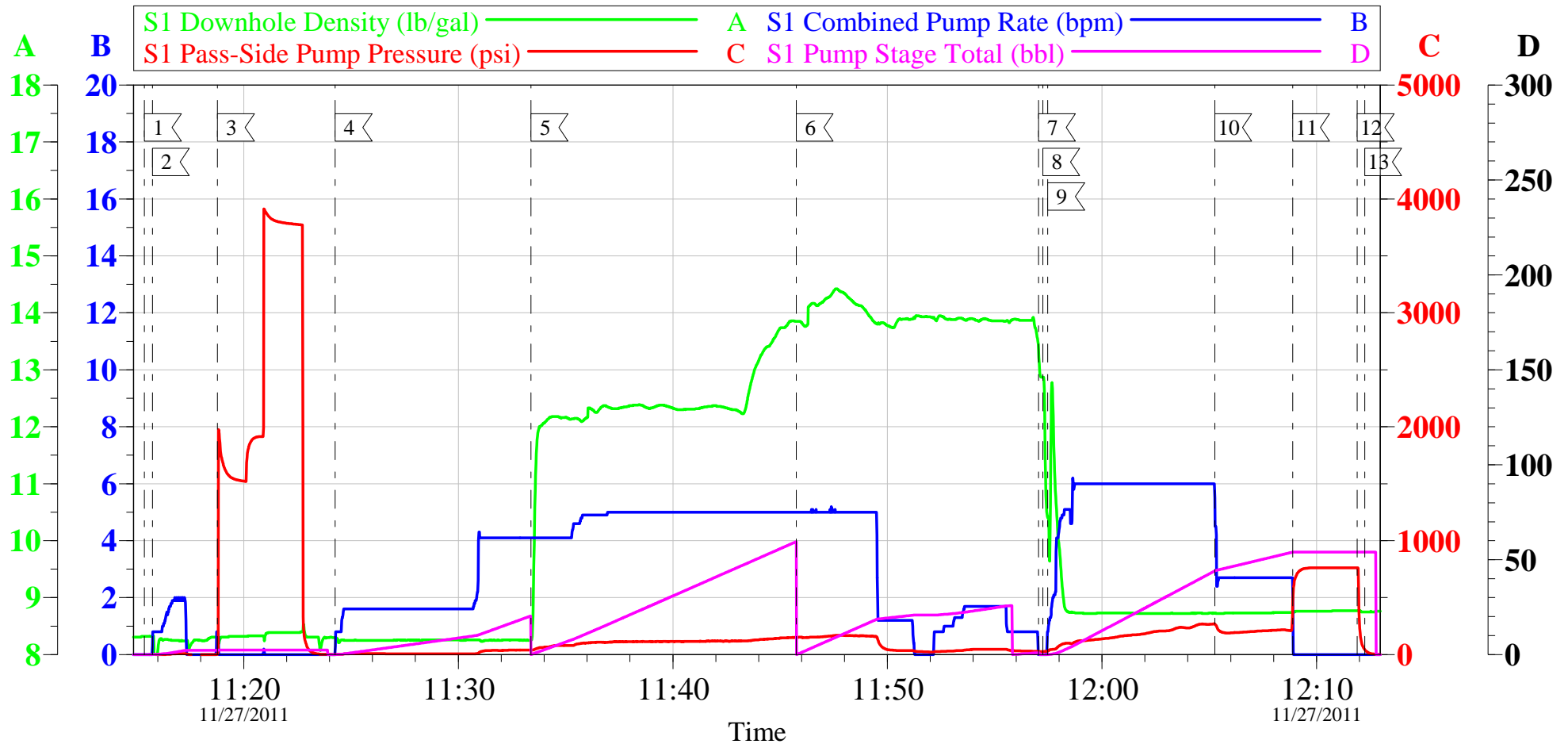
Sold To #: 343492	Ship To #: 2890429	Quote #:	Sales Order #: 9064321
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lauer, Casey	
Well Name: EPPERLY	Well #: 23C-23-692	API/UWI #: 05-045-20950	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.61 secs.		Long: W 107.641 deg. OR W -108 deg. 21 min. 33.829 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		Srvc Supervisor: CHASTAIN, DERICK	MBU ID Emp #: 455848

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	11/27/2011 02:00							CREW ON LOCATION FROM PREVIOUS JOB
Pre-Rig Up Safety Meeting	11/27/2011 09:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	11/27/2011 10:00							1 HT 400 PUMP, 1 660 BULK TRAILER, 1 F-450 PICK-UP, 1 PLUG CONTAINER
Pre-Job Safety Meeting	11/27/2011 11:00							WITH ALL PERSONNEL ON LOCATION
Start Job	11/27/2011 11:15							TD 765', TP 759.31', SJ 44.52', FC 714.79, 9 5/8" 36# CASING, 12 3/8" AIR DRILLED HOLE
Pump Water	11/27/2011 11:15		2	2			9.0	FILL LINES
Test Lines	11/27/2011 11:18							STAGED TEST AT 1825 PSI THEN TESTED TO 3800 PSI. HELD PRESSURE FOR 2 MIN, NO LEAKS
Pump Spacer 1	11/27/2011 11:24		4	20			39.0	PUMP FRESH WATER AT 2 BPM UNTIL TUB WEIGHED UP, THEN SPED RATE TO 4 BPM
Pump Lead Cement	11/27/2011 11:33		6	50.9			151.0	120 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Pump Tail Cement	11/27/2011 11:45		6	30.6			164.0	120 SKS, 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK. H2O RETURNS AT 15 GONE ON TAIL
Shutdown	11/27/2011 11:57						.0	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	11/27/2011 11:57							LAUNCH PLUG, VERIFY PLUG LEFT CONTAINER
Pump Displacement	11/27/2011 11:57		6	55.2			272.0	FRESH WATER. CEMENT RETURNS AT 18 GONE ON DISPLACEMENT
Slow Rate	11/27/2011 12:05		3	45			219.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/27/2011 12:08		3	55.2			810.0	PLUG BUMPED PLUG AT 219 PSI, PRESSURED UP TO 810
Check Floats	11/27/2011 12:11						.0	FLOATS HELD. 1/2 BBL BACK TO TRUCK.
End Job	11/27/2011 12:12							37 BBLS CEMENT TO SURFACE. NO DERRICK CHARGE, NO ADD HOURS CHARGED, NO SUGAR USED.
Pre-Rig Down Safety Meeting	11/27/2011 12:15							WITH ALL HES PERSONNEL
Rig-Down Equipment	11/27/2011 12:30							BLOW DOWN PUMP AND GET READY FOR NEXT WELL.
Comment	11/27/2011 12:30							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. DERICK CHASTAIN AND CREW

BILL BARRETT - EPPERLY 23C-23-692

SURFACE CASING



1 START JOB	11:15:22	2 FILL LINES	11:15:45	3 TEST LINES	11:18:46
4 PUMP SPACER	11:24:16	5 PUMP LEAD CEMENT	11:33:23	6 PUMP TAIL CEMENT	11:45:45
7 SHUTDOWN	11:57:02	8 DROP PLUG	11:57:15	9 PUMP DISPLACEMENT	11:57:28
10 SLOW RATE	12:05:15	11 BUMP PLUG	12:08:53	12 CHECK FLOATS	12:11:54
13 END JOB	12:12:14				

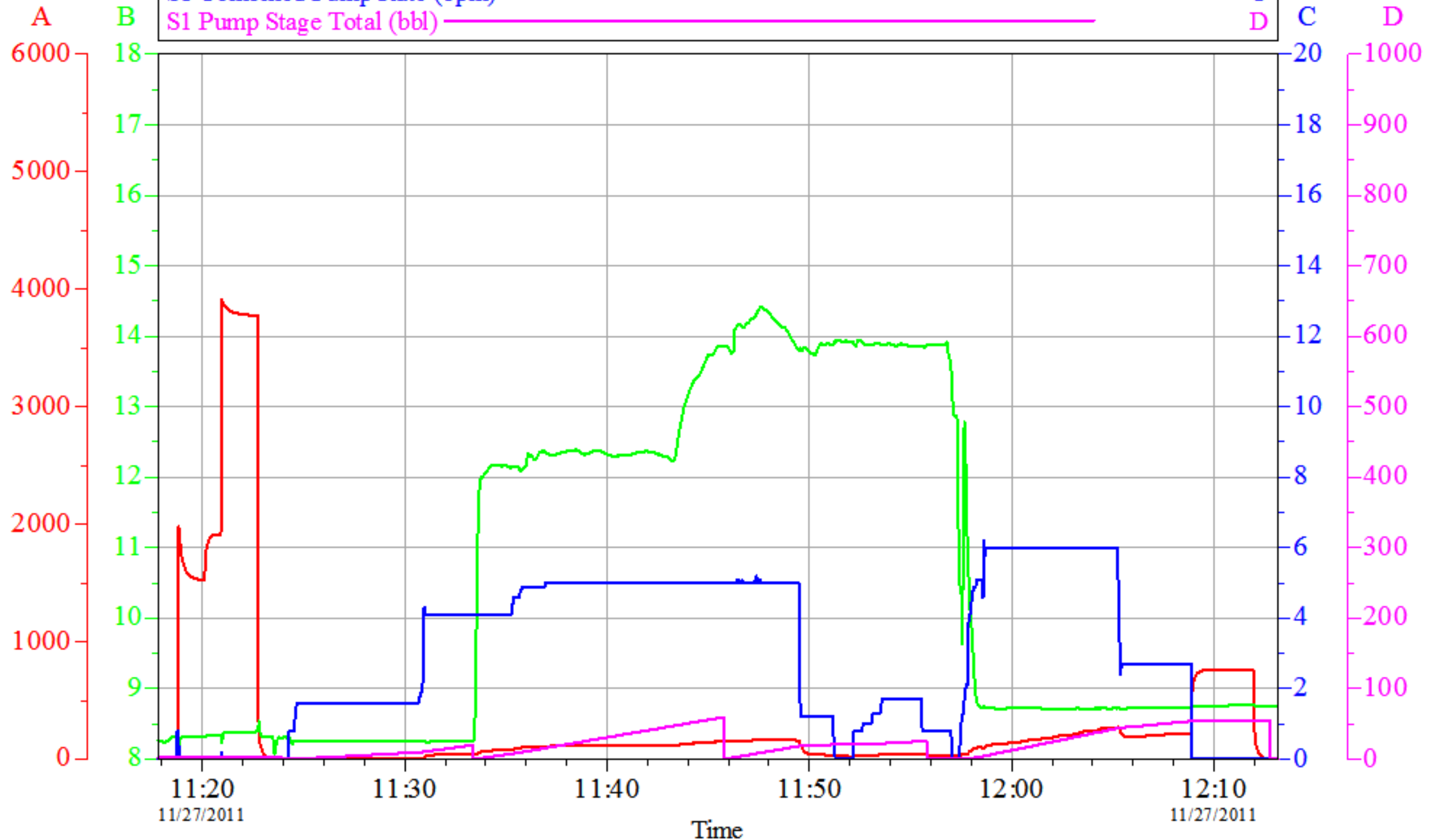
Customer: BILL BARRETT	Job Date: 27-Nov-2011	Sales Order #: 9064321
Well Description: EPPERLY 23C-23-692	Job Type: SURFACE	ADC Used: YES
Customer Rep: CASEY LAUER	Service Supervisor: DERICK CHASTAIN	Pump #/Operator: 7 / MIKE MAGERS

OptiCem v6.4.10
27-Nov-11 12:32

Company Name - Well Name/Number

Type of Job (Surface Production Sqz)

S1 Pass-Side Pump Pressure (psi)	A
S1 Downhole Density (lb/gal)	B
S1 Combined Pump Rate (bpm)	C
S1 Pump Stage Total (bbl)	D



Customer: Bill Barrett
Well Description: Epperly 23C-23-692
Company Rep: Casey Lauer

Job Date: 27-Nov-2011
Job Type: Surface
Cement Supervisor: Derick Chastain

Sales Order #: 9064321
ADC Used: yes
Elite #X: 7, Mike Majors

OptiCem v6.4.6
29-Nov-11 15:14

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT
Submitted by: DERICK CHASTAIN
Attention: J. Trout
Lease: EPPERLY
Well #: 23C-23-692

Date: 11/27/2011
Date Rec.: 11/27/2011
S.O.#: 9064321
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6
Potassium (K)	<i>5000</i>	2000 Mg / L
Calcium (Ca)	<i>500</i>	0 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	1000 Mg / L
Sulfates (SO ₄)	<i>1500</i>	500 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	45 Deg
Total Dissolved Solids		200 Mg / L

Respectfully: DERICK CHASTAIN

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

Sales Order #: 9064321	Line Item: 10	Survey Conducted Date: 11/27/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20950
Well Name: EPPERLY		Well Number: 23C-23-692
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	11/27/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	DERICK CHASTAIN (HB23225)
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	NONE

CUSTOMER SIGNATURE

Sales Order #: 9064321	Line Item: 10	Survey Conducted Date: 11/27/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20950
Well Name: EPPERLY		Well Number: 23C-23-692
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	11/27/2011

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	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

Sales Order #: 9064321	Line Item: 10	Survey Conducted Date: 11/27/2011
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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20950
Well Name: EPPERLY		Well Number: 23C-23-692
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	95
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	99
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