
BILL BARRETT CORPORATION E-BILL

**EPERLY 13A-23-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
22-Nov-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492		Ship To #: 2890421		Quote #:		Sales Order #: 9057399	
Customer: BILL BARRETT CORPORATION E-BILL				Customer Rep: Lauer, Casey			
Well Name: EPPERLY			Well #: 13A-23-692			API/UWI #: 05-045-20947	
Field: MAMM CREEK		City (SAP): SILT		County/Parish: Garfield		State: Colorado	
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.188 secs.				Long: W 107.641 deg. OR W -108 deg. 21 min. 33.703 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: MUHLESTEIN, RYAN			MBU ID Emp #: 453609	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHASTAIN, DERICK Allan	10	455848	LESTER, LEVI William	10	474117	MUHLESTEIN, RYAN Herrick	10	453609

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025118	120 mile	10551730C	120 mile	10741259	120 mile	10951250	120 mile
10973571	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/22/11	10	2						

TOTAL Total is the sum of each column separately

Job

Formation Name					Date				Time		Time Zone						
Formation Depth (MD)		Top		Bottom		Called Out				22 - Nov - 2011		08:30		MST			
Form Type				BHST		On Location				22 - Nov - 2011		14:00		MST			
Job depth MD		765. ft		Job Depth TVD		765. ft		Job Started				22 - Nov - 2011		19:57		MST	
Water Depth				Wk Ht Above Floor		4. ft		Job Completed				22 - Nov - 2011		20:57		MST	
Perforation Depth (MD)		From				To		Departed Loc				22 - Nov - 2011		22:00		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 SECTION				12.25				.	765.		
SURFACE CASING	Unknown		9.625	8.921	36.		K-55	.	742.		

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	3.0		
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	5.0	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	5.0	6.85	
	0.25 lbm	POLY-E-FLAKE (101216940)								
	6.85 Gal	FRESH WATER								
4	DISPLACEMENT		54.00	bbl	8.33			5.0		
Calculated Values		Pressures		Volumes						
Displacement	54	Shut In: Instant		Lost Returns	0	Cement Slurry	81.5	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	17	Actual Displacement	54	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	155.5	
Rates										
Circulating		Mixing	5	Displacement	5	Avg. Job			5	
Cement Left In Pipe	Amount	43.4 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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Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.188 secs.		Long: W 107.641 deg. OR W -108 deg. 21 min. 33.703 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: MUHLESTEIN, RYAN	MBU ID Emp #: 453609

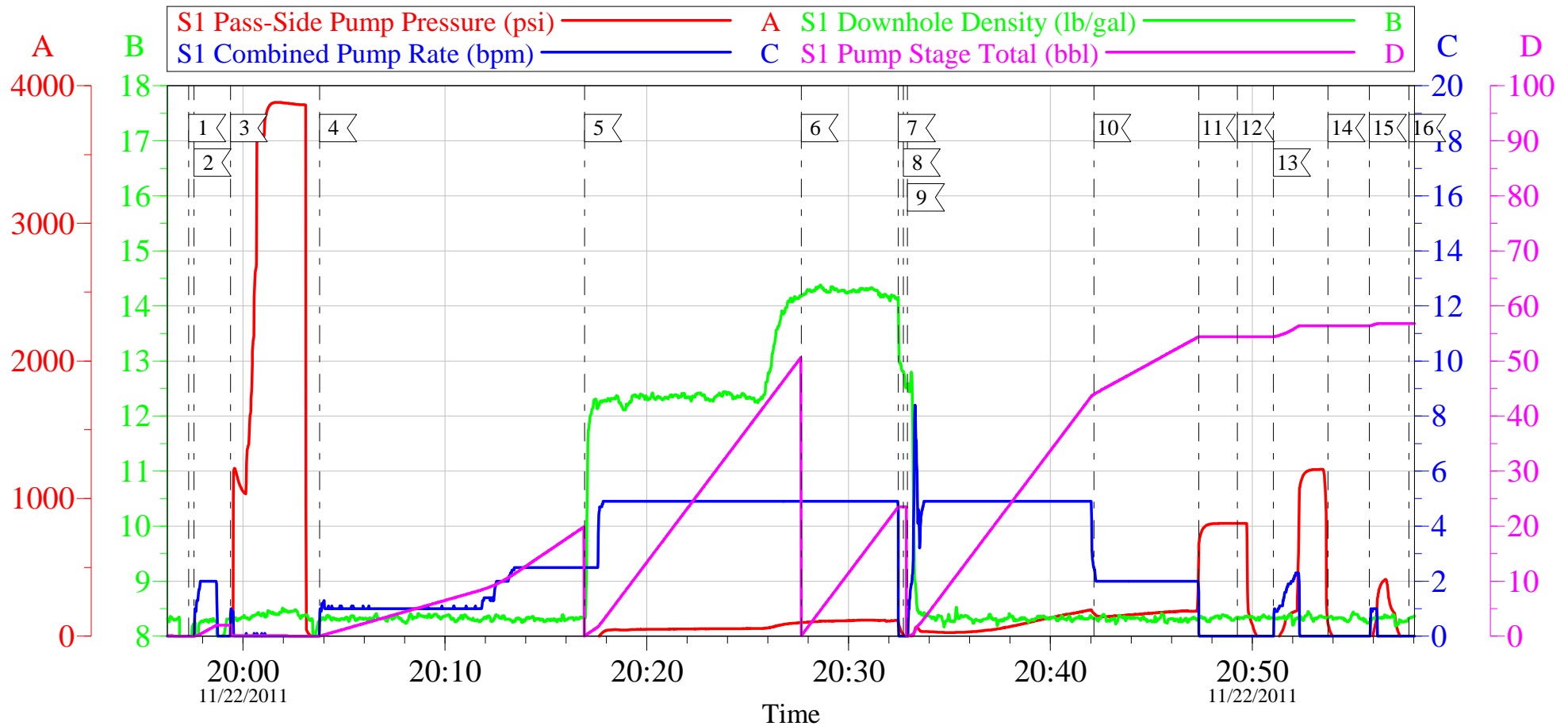
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/22/2011 08:30							
Pre-Convoy Safety Meeting	11/22/2011 11:30							WITH ALL HES PERSONNEL SAFE DRIVING PRACTICES AND TRAVEL ROUTE REVIEWED
Arrive at Location from Service Center	11/22/2011 14:00							PUMP ON LOCATION FROM PREVIOUS JOB, REQUESTED ON LOCATION TIME 1600, PER CO REP. HIT LIST SHOWING RELIEF CREW TIME
Assessment Of Location Safety Meeting	11/22/2011 15:00							WITH ALL HES PERSONNEL
Other	11/22/2011 15:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	11/22/2011 18:00							WITH ALL HES PERSONNEL
Rig-Up Equipment	11/22/2011 18:30							1 HT 400 PUMP, 1 660 BULK TRAILER, 1 F-450 PICK-UP, 1 PLUG CONTAINER
Pre-Job Safety Meeting	11/22/2011 19:45							WITH ALL PERSONNEL ON LOCATION
Start Job	11/22/2011 19:57							TD 765', TP 742', SJ 43.4', FC 698.7, 9 5/8" 36# CASING, 12 1/4" AIR DRILLED HOLE
Pump Water	11/22/2011 19:57		2	2			6.0	FRESH H2O TO PRIME LINES
Test Lines	11/22/2011 19:59							HELD 3905 PSI FOR 2 MIN, NO LEAKS
Pump Spacer 1	11/22/2011 20:03		3	20			8.0	FRESH H2O SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	11/22/2011 20:16		5	50.9			135.0	120 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK, VERIFIED VIA MUD SCALES WET AND DRY SAMPLES SUBMITTED
Pump Tail Cement	11/22/2011 20:27		5	30.6			100.0	120 SKS, 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK, VERIFIED VIA MUD SCALES WET AND DRY SAMPLES SUBMITTED
Shutdown	11/22/2011 20:32							
Drop Top Plug	11/22/2011 20:32							LAUNCH PLUG, VERIFY PLUG LEFT CONTAINER
Pump Displacement	11/22/2011 20:32		5	54			235.0	DISPLACE FRESH WATER, CEMENT RETURNS TO SURFACE AT 37 BBLS AWAY, 17 BBLS CEMENT TO SURFACE, NO SUGAR USED.
Slow Rate	11/22/2011 20:42		2	44			205.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/22/2011 20:47		2	54			868.0	PLUG BUMPED PLUG AT 255 PSI, PRESSURED UP TO 868
Check Floats	11/22/2011 20:49							FLOAT DID NOT HOLD 2.5 BBLS BACK TO PUMP
Bump Plug	11/22/2011 20:51						1230.0	RE BUMP PLUG
Check Floats	11/22/2011 20:53							FLOAT DID NOT HOLD 1.5 BBLS BACK TO PUMP
Shut In Well	11/22/2011 20:55						235.0	PER CO REP. WELL SHUT IN WITH 235 PSI
End Job	11/22/2011 20:57							
Pre-Rig Down Safety Meeting	11/22/2011 21:00							WITH ALL HES PERSONNEL

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Rig-Down Equipment	11/22/2011 21:30							
Pre-Convoy Safety Meeting	11/22/2011 21:55							WITH ALL HES PERSONNEL
Depart Location for Service Center or Other Site	11/22/2011 22:00							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. RYAN MUHLESTEIN AND CREW

BILL BARRETT - EPPERLY 13A-23-692

9 5/8" SURFACE CASING



Local Event Log

1 START JOB	19:57:19	2 PRIME LINES	19:57:35	3 PRESSURE TEST	19:59:23
4 PUMP H2O SPACER	20:03:48	5 PUMP LEAD CMT	20:16:56	6 PUMP TAIL CMT	20:27:39
7 SHUT DOWN	20:32:28	8 DROP PLUG	20:32:42	9 PUMP DISPLACEMENT	20:32:55
10 SLOW RATE	20:42:09	11 BUMP PLUG	20:47:21	12 CHECK FLOATS	20:49:16
13 RE-BUMP PLUG	20:51:03	14 CHECK FLOATS	20:53:45	15 SHUT IN WITH PRESSURE	20:55:48
16 END JOB	20:57:46				

Customer: BILL BARRETT
Well Description: EPPERLY 13A-23-692
Company Rep: CASEY LAUER

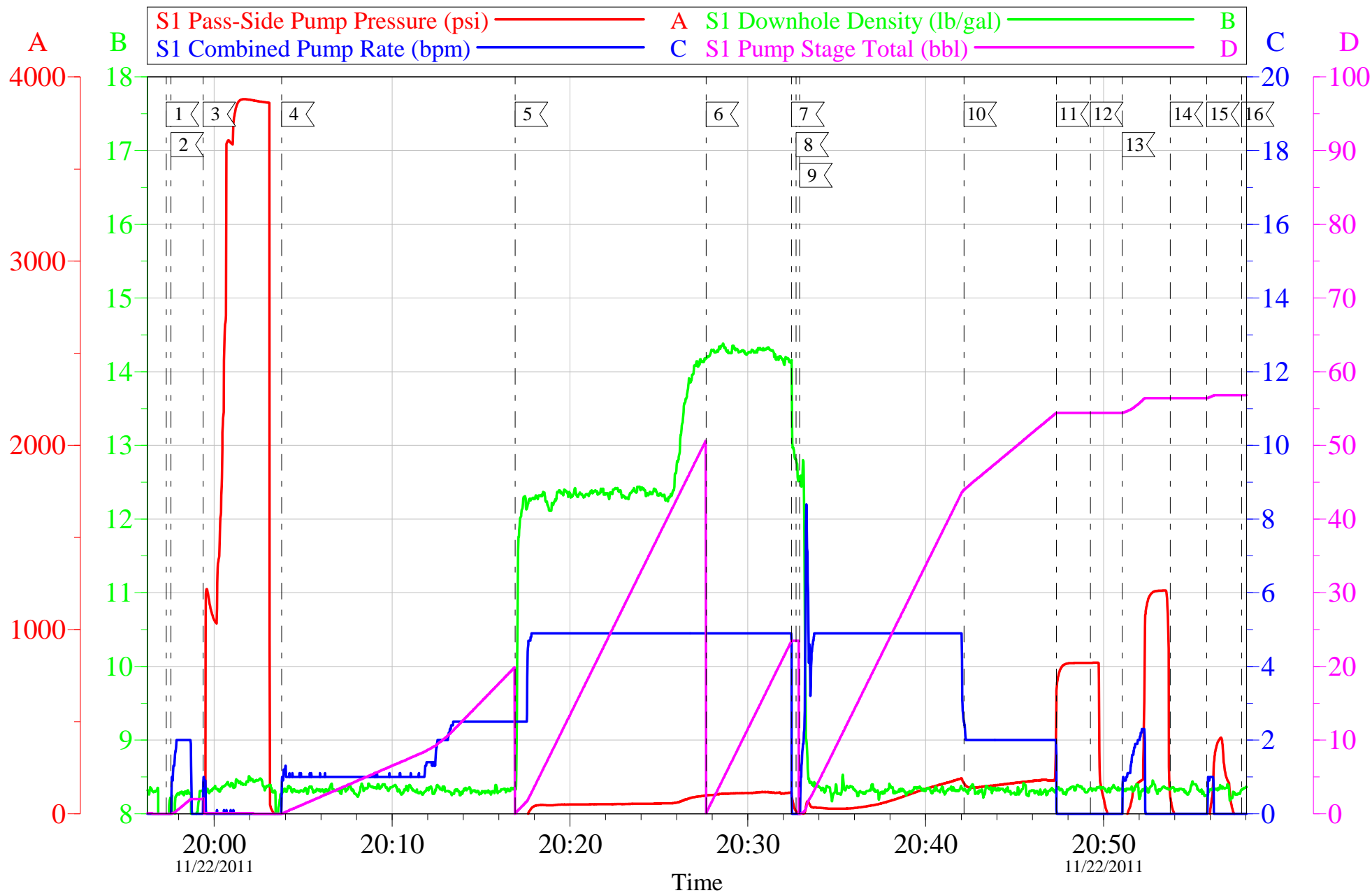
Job Date: 22-Nov-2011
Job Type: SURFACE
Cement Supervisor: RYAN MUHLESTEIN

Sales Order #: 9057399
ADC Used: YES
Elite # 2 LEVI LESTER

OptiCem v6.4.10
22-Nov-11 21:18

BILL BARRETT - EPPERLY 13A-23-692

9 5/8" SURFACE CASING



Customer: BILL BARRETT
Well Description: EPPERLY 13A-23-692
Company Rep: CASEY LAUER

Job Date: 22-Nov-2011
Job Type: SURFACE
Cement Supervisor: RYAN MUHLESTEIN

Sales Order #: 9057399
ADC Used: YES
Elite # 2 LEVI LESTER

OptiCem v6.4.10
22-Nov-11 21:30

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT

Submitted by: RYAN MUHLESTEIN

Attention: J. Trout

Lease EPPERLY

Well # 13A-23-692

Date: 11/22/2011

Date Rec.: 11/22/2011

S.O.# 9057399

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 Mg / L
Calcium (Ca)	<i>500</i>	425 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	250 Mg / L
Sulfates (SO ₄)	<i>1500</i>	250 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		270 Mg / L

Respectfully: RYAN MUHLESTEIN

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

Sales Order #: 9057399	Line Item: 10	Survey Conducted Date: 11/22/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20947
Well Name: EPPERLY		Well Number: 13A-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	11/22/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYAN MUHLESTEIN (HB21105)
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 #: 9057399	Line Item: 10	Survey Conducted Date: 11/22/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20947
Well Name: EPPERLY		Well Number: 13A-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	11/22/2011

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

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Well Name: EPPERLY		Well Number: 13A-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	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