
BILL BARRETT CORPORATION E-BILL

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

Cement Surface Casing
12-Nov-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 343492		Ship To #: 2889248		Quote #:		Sales Order #: 9043544	
Customer: BILL BARRETT CORPORATION E-BILL				Customer Rep: Lauer, Casey			
Well Name: CBS			Well #: 32D-21-692			API/UWI #: 05-045-20127	
Field: MAMM CREEK		City (SAP): UNKNOWN		County/Parish: Garfield			State: Colorado
Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.492 secs.				Long: W 107.671 deg. OR W -108 deg. 19 min. 43.241 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: 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 #
HUGENTOBLE, LOGAN Mark	9	447333	LINN, PAUL Andrew	9	479143	SILVERTHORN, AARON Jacob	9	491305
SINGLETON, AUSTIN W	9	487406						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867531	120 mile	10989685	120 mile	11560046	120 mile	11562538	120 mile
11583932	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/12/11	9	1						

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	12 - Nov - 2011	11:00	MST
Form Type		BHST	Job Started	12 - Nov - 2011	14:00	MST
Job depth MD	800. ft	Job Depth TVD	Job Completed	12 - Nov - 2011	19:03	MST
Water Depth		Wk Ht Above Floor	Departed Loc	12 - Nov - 2011	20:08	MST
Perforation Depth (MD)	From	To		12 - Nov - 2011	23:00	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
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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			8	
Calculated Values		Pressures		Volumes					
Displacement	57	Shut In: Instant		Lost Returns	0	Cement Slurry	80	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	57	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	6	Displacement	8	Avg. Job		7	
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					

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Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
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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

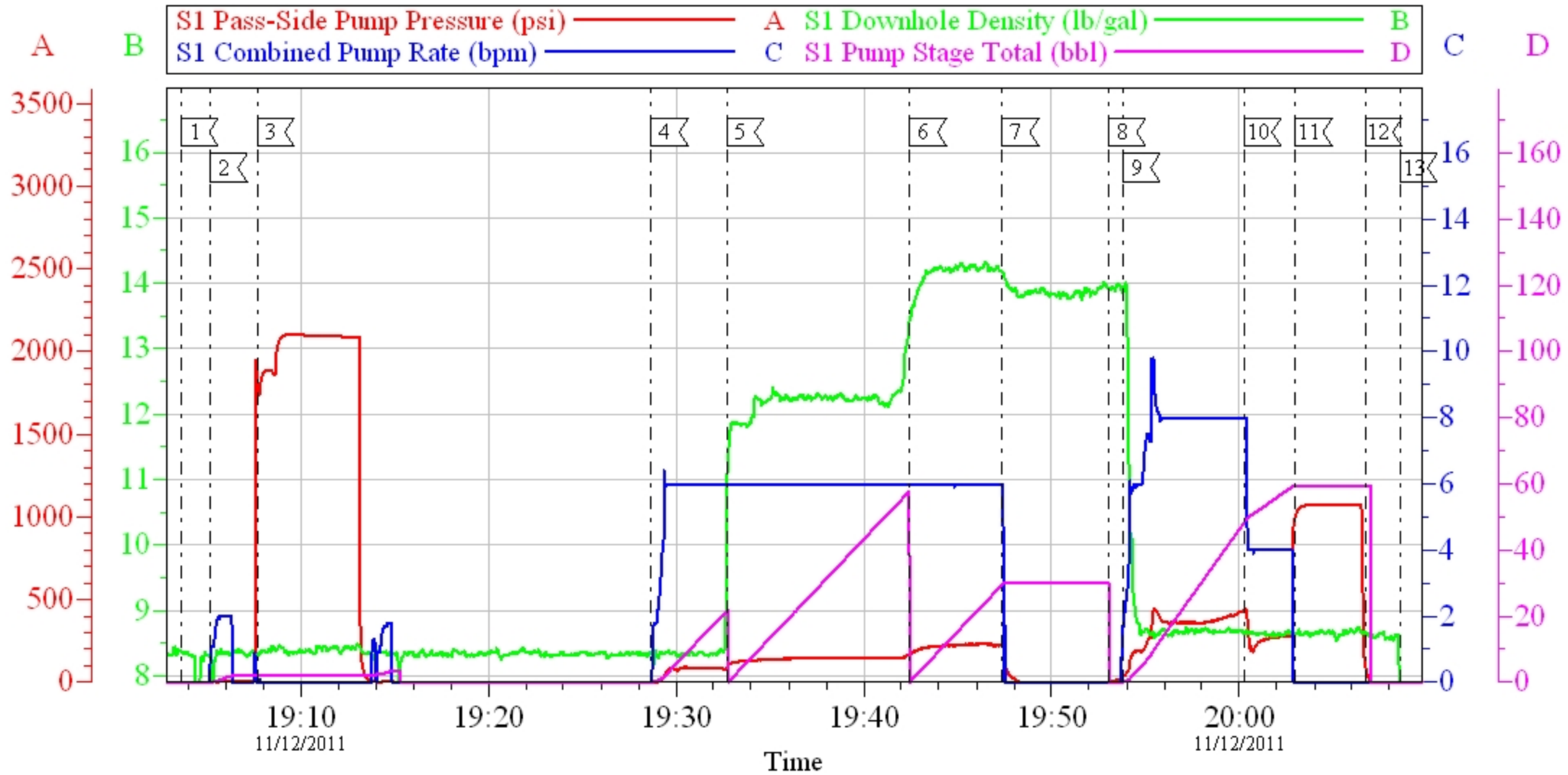
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/12/2011 11:00							
Pre-Convoy Safety Meeting	11/12/2011 11:55							ALL HES EMPLOYEES
Arrive At Loc	11/12/2011 14:00							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	11/12/2011 14:50							ALL HES EMPLOYEES
Rig-Up Equipment	11/12/2011 15:00							1 HT-400 PUMP TRUCK, 1 660 BULK TRUCK, 1 F-550 P/U, 1 PLUG CONTAINER
Pre-Job Safety Meeting	11/12/2011 18:45							ALL HES EMPLOYEES, RIG CREW, CO REP AND ANY 3RD PARTY VENDORS
Start Job	11/12/2011 19:03							TP 785 FT, TD 810 FT, FC 741 FT, HOLE 12.25", MUD WT AIR, RATE WILL BE 6, WILL BUMP 500 PSI OVER LAND PSI
Pump Water	11/12/2011 19:05		2	2			14.0	FILL LINES PRIOR TO PRESSURE TESTING LINES
Pressure Test	11/12/2011 19:07							NO LEAKS, KICK OUTS SET TO 2000 PSI FOR TEST.
Pump Spacer 1	11/12/2011 19:28		6	20			89.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Cementing Job Log

Pump Lead Cement	11/12/2011 19:32		6	50			129.0	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	11/12/2011 19:42		6	30			199.0	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	11/12/2011 19:47							
Drop Plug	11/12/2011 19:53							PLUG LAUNCHED
Pump Displacement	11/12/2011 19:53		8	57			442.0	FRESH WATER
Slow Rate	11/12/2011 20:00						322.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/12/2011 20:02						875.0	PLUG LANDED
Check Floats	11/12/2011 20:06							FLOATS HOLDING, 25 BBLS CEMENT TO SURFACE
End Job	11/12/2011 20:08							THANK YOU FOR USING HES LOGAN HUGENTOBLE AND CREW
Post-Job Safety Meeting (Pre Rig-Down)	11/12/2011 20:10							ALL HES EMPLOYEES
Rig-Down Equipment	11/12/2011 20:15							
Pre-Convoy Safety Meeting	11/12/2011 22:50							ALL HES EMPLOYEES
Crew Leave Location	11/12/2011 23:00							LOCATION CLEAN

BILL BARRETT-CBS/32D-21-692

SURFACE



Local Event Log

1 START JOB	19:03:39	2 PRIME LINES	19:05:11	3 PRESSURE TEST	19:07:42
4 PUMP H2O SPACER	19:28:41	5 PUMP LEAD CEMENT	19:32:43	6 PUMP TAIL CEMENT	19:42:26
7 SHUTDOWN	19:47:21	8 DROP PLUG	19:53:02	9 PUMP DISPLACEMENT	19:53:48
10 SLOW RATE	20:00:15	11 BUMP PLUG	20:02:59	12 CHECK FLOATS	20:06:42
13 END JOB	20:08:33				

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

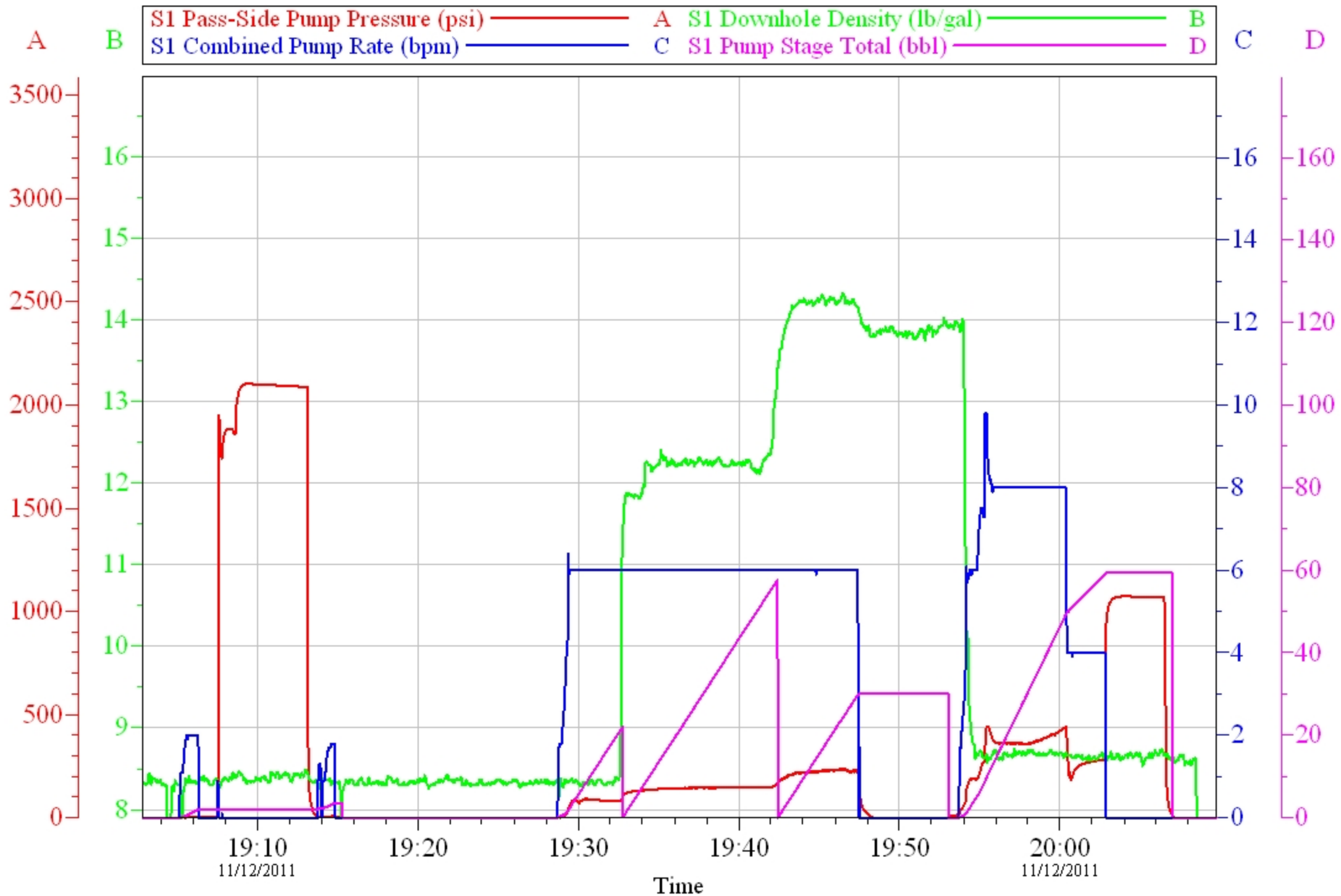
Job Date: 12-Nov-2011
Job Type: SURFACE
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 9043544
ADC Used: YES
Elite #5: AARON SILVERTHORN

OptiCem v6.4.10
12-Nov-11 20:46

BILL BARRETT-CBS/32D-21-692

SURFACE



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

Job Date: 12-Nov-2011
Job Type: SURFACE
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 9043544
ADC Used: YES
Elite #5: AARON SILVERTHORN

OptiCem v6.4.10
12-Nov-11 20:47

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT
Submitted by: OGAN HUGENTOBLER
Attention: _____
Lease: CBS
Well #: 32D-21-692

Date: 11/15/2011
Date Rec.: 11/15/2011
S.O.#: 9043544
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 (FE ₂)	<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 or its use.

Sales Order #: 9043544	Line Item: 10	Survey Conducted Date: 11/12/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20127
Well Name: CBS		Well Number: 32D-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	11/12/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	LOGAN HUGENTOBLE (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 #: 9043544	Line Item: 10	Survey Conducted Date: 11/12/2011
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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20127
Well Name: CBS		Well Number: 32D-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	11/12/2011

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.	4
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 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