

BILL BARRETT CORPORATION E-BILL
DO NOT MAIL-1099 18TH ST,STE 2300W
DENVER, Colorado

FEDERAL 32A-20-691

Pro Petro

Post Job Summary

Cement Surface Casing

Prepared for: Josh Hendrson
Date Prepared: 6.4.2011
Version: 1

Service Supervisor: ARNOLD, EDWARD

Submitted by:

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2855778	Quote #:	Sales Order #: 8195677
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Henderson, Josh	
Well Name: FEDERAL	Well #: 32A-20-691	API/UWI #: 05-045-19676	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.513 deg. OR N 39 deg. 30 min. 47.79 secs.		Long: W 107.575 deg. OR W -108 deg. 25 min. 30.079 secs.	
Contractor: Pro Petro		Rig/Platform Name/Num: Pro Petro	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		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	15	321604	ARNOLD, EDWARD John	15	439784	BRENNECKE, ANDREW Bailey	15	486345
CUNNINGHAM, TANNER Wade	15	445660						

Equipment

HES Unit #	Distance-1 way						
10551730C	120 mile	10592964	120 mile	10744549	120 mile	10829465	120 mile
10973571	120 mile	11021972	120 mile	11027039	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6.4.2011	15	3						

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	03 - Jun - 2011 18:00 MST
Form Type	BHST	On Location	03 - Jun - 2011 22:00 MST
Job depth MD 840. ft	Job Depth TVD 840. ft	Job Started	04 - Jun - 2011 10:51 MST
Water Depth	Wk Ht Above Floor . ft	Job Completed	04 - Jun - 2011 13:43 MST
Perforation Depth (MD) From	To	Departed Loc	04 - Jun - 2011 15:00 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				12.375				.	840.		
Surface Casing	Unknown		9.625	8.921	36.		J-55	.	817.3		

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		

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	.	.0	.0	5	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	200.0	sacks	12.3	2.38	13.75	5	13.75
	13.75 Gal	FRESH WATER							
3	SwiftCem Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	5	6.85
	6.85 Gal	FRESH WATER							
4	Displacement		59.00	bbl	.	.0	.0	5	
Calculated Values		Pressures			Volumes				
Displacement	59.6	Shut In: Instant		Lost Returns		Cement Slurry	115.2	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	27	Actual Displacement	59.6	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	194.8
Rates									
Circulating	5	MIXING	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	45.1 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 39.513 deg. OR N 39 deg. 30 min. 47.79 secs.		Long: W 107.575 deg. OR W -108 deg. 25 min. 30.079 secs.	
Contractor: Pro Petro		Rig/Platform Name/Num: Pro Petro	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srvc 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	06/03/2011 18:00							
Pre-Convoy Safety Meeting	06/03/2011 19:00							Including entire cement crew
Arrive At Loc	06/03/2011 21:40							Rig still drilling.
Assessment Of Location Safety Meeting	06/03/2011 22:00							Water test: PH 7; Hardness 120; So4 <200; Fe 0; KCl 250; Chlorides 0; Temp 60 deg; TDS 400.
Pre-Rig Up Safety Meeting	06/04/2011 10:00							Including entire cement crew
Rig-Up Equipment	06/04/2011 10:10							1 Elite # 2; 1 660 bulk truck; 1 hard line from pump to well head; 1 lines to upright. 9.625" screw in head #B0679. Pump And Top Out already on location.
Rig-Up Completed	06/04/2011 10:40							
Pre-Job Safety Meeting	06/04/2011 10:45							Including everyone on location
Start Job	06/04/2011 10:51							TD 840; TP 817.25; SJ 45.1; OH 12.375"; CASING 9.625" 36# J-55.
Pump Water	06/04/2011 10:53			130			200.0	Pumped water down casing to wash casing down into hole. Max Pressure for this was 500PSI.
Shutdown	06/04/2011 11:24							Got casing to bottom shut down to let rig land casing.

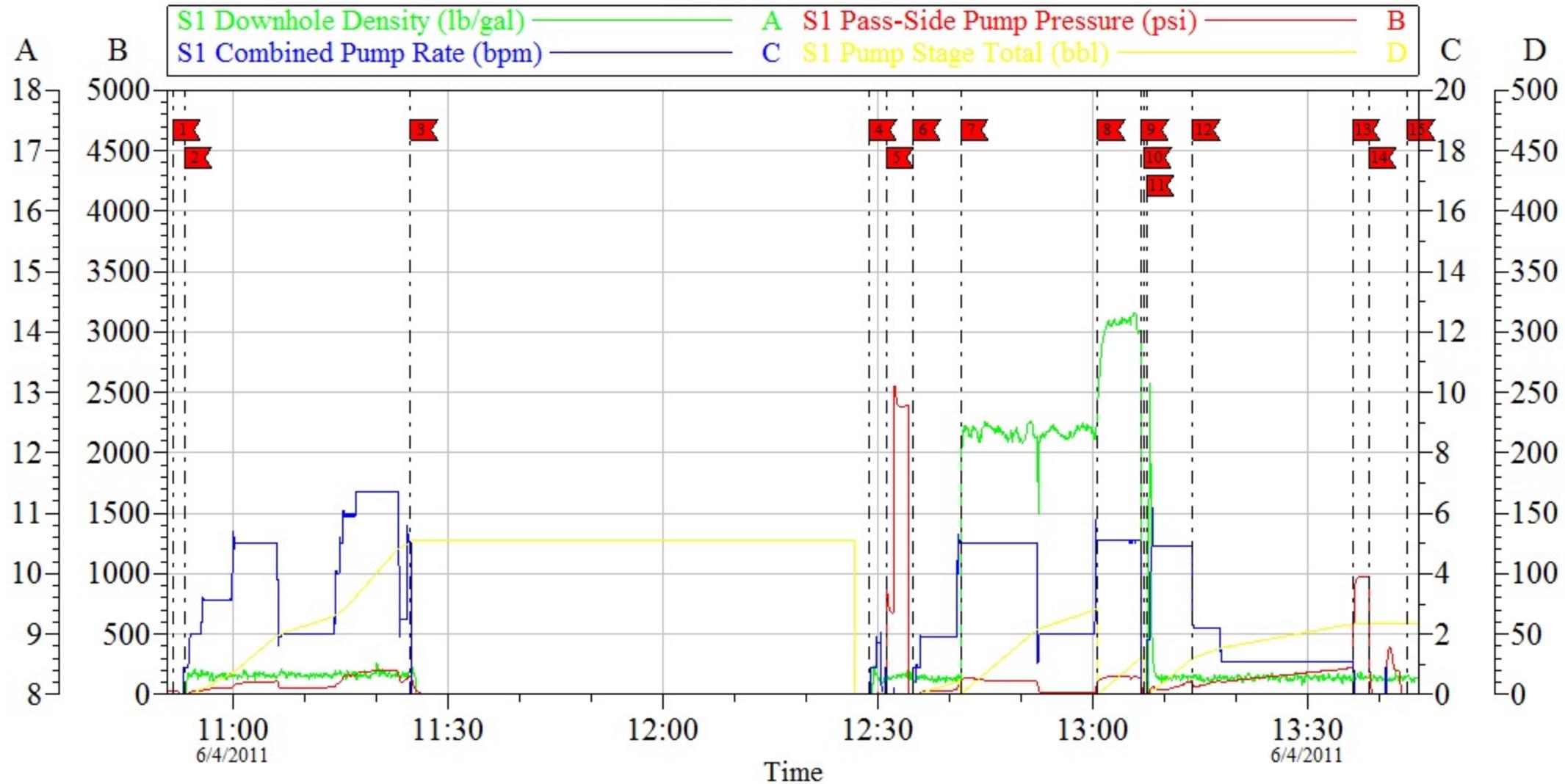
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	06/04/2011 12:28		2	2			14.0	Fill lines with fresh water.
Pressure Test	06/04/2011 12:31						2460.0	PSI test good, no leaks.
Pump Spacer 1	06/04/2011 12:34		5	20			33.0	20 BBL fresh water.
Pump Lead Cement	06/04/2011 12:41		5	84.7			100.0	200 SKs Lead cement, 12.3 ppg; 2.38 cf3; 13.75 gal/sk.
Pump Tail Cement	06/04/2011 13:00		5	30.5			150.0	120 SKs Tail cement, 14.2 ppg; 1.43 cf3; 6.88 gal/sk.
Shutdown	06/04/2011 13:06							
Drop Plug	06/04/2011 13:07							Plug left container.
Pump Displacement	06/04/2011 13:07		5	30			150.0	Fresh Water Displacement
Slow Rate	06/04/2011 13:14		2	29.6			220.0	Slowed rate to let cement fill voids. 27 BBL Cement to Surface.
Bump Plug	06/04/2011 13:36						930.0	Bumped plug took 500 psi over.
Check Floats	06/04/2011 13:38							Floats held. 1.5 BBL back. Left 200 PSI on well and shut in.
End Job	06/04/2011 13:43							
Pre-Rig Down Safety Meeting	06/04/2011 13:50							Including entire cement crew.
Rig-Down Completed	06/04/2011 15:00							
Crew Leave Location	06/04/2011 15:10							
Other	06/04/2011 15:10							Thank You for using Halliburton. Ed Arnold and crew. Left Top Out Truck on next Location.

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		Max PSI <u>1616</u>			
4	FILL LINES	2				
6	Test Lines	2000.0				
9	H2O Spacer	20.0				
13	LEAD CEMENT	84.8	200	12.3	2.38	13.75
15	TAIL CEMENT	30.6	120	14.2	1.43	6.85
11	SHUTDOWN					
32	DROP TOP PLUG					
25	DISPLACEMENT	59.7				
1085	SLOW RATE	49.7	2 BBL/MIN			
26	LAND PLUG	194.7				
511	CHECK FLOATS	694.7				
2	END JOB		Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
59.69	817.25	45.10		772.15	0.0773	215
		<u>9 5/8 SURFACE</u>				
PSI to Lift	400.00					
CALCULATED PSI LAND		195		TOTAL FLUID PUMPED		197
Collapse	2020	Burst	3520		SO#	8195677

BILL BARRETT

9.625 Surface

Federal 32A-20-691



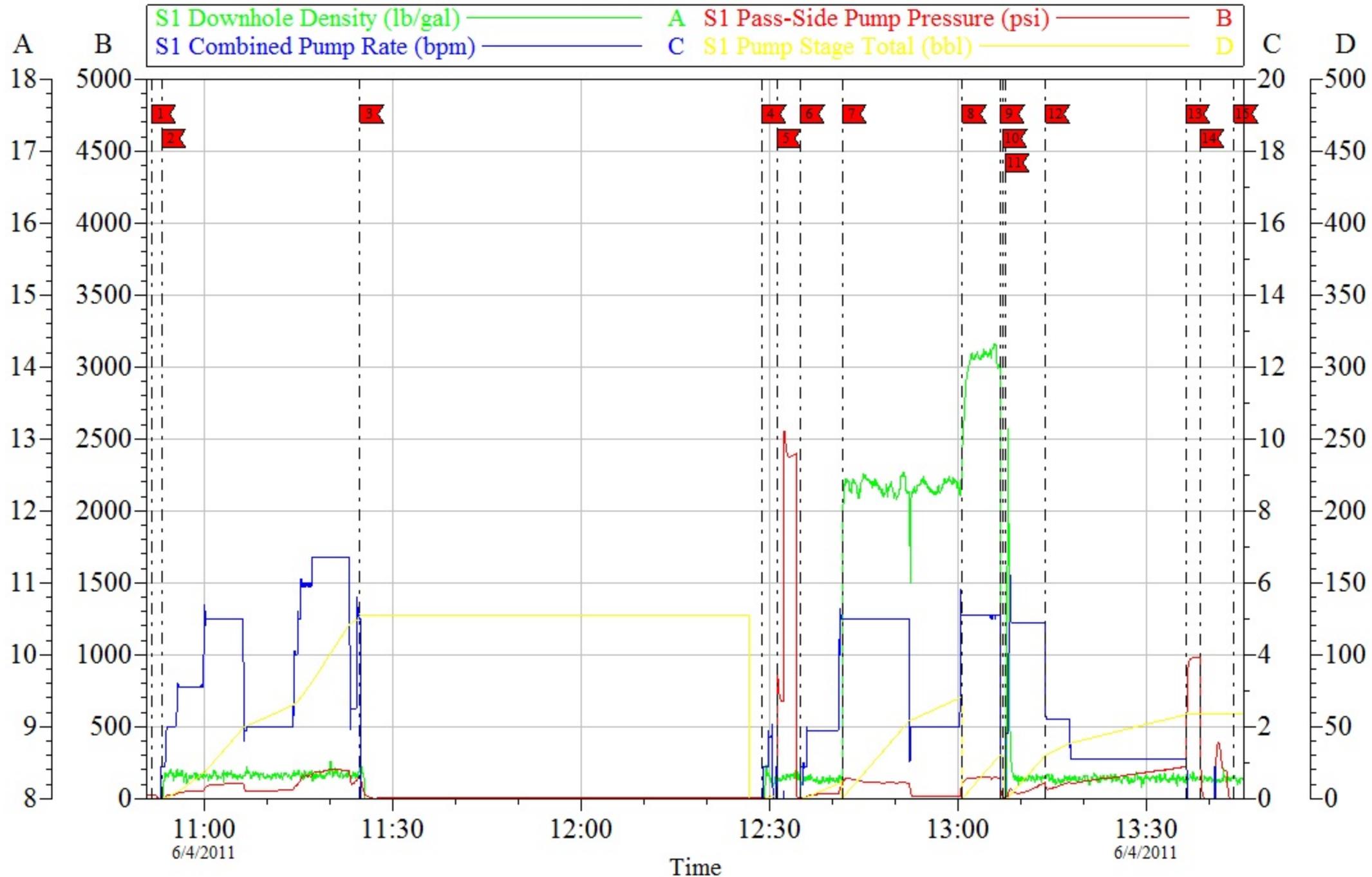
Local Event Log								
1	Start Job	10:51:39	2	Pump Down Casing	10:53:12	3	Shut Down	11:24:48
4	Fill Lines	12:28:50	5	Test Lines	12:31:11	6	H2O Spacer	12:34:56
7	Lead Cement	12:41:36	8	Tail Cement	13:00:43	9	Shut Down	13:06:47
10	Drop Plug	13:07:11	11	H2O Displacement	13:07:33	12	Slow Rate	13:14:00
13	Bump Plug	13:36:19	14	Check Floats	13:38:33	15	End Job	13:43:59

Customer: Bill Barrett	Job Date: 04-Jun-2011	Sales Order #: 8195677
Well Description: Federal 32A-20-691	Job Type: 9 5/8 Surface	ADC Used: yes
Company Rep: Josh Henderson	Cement Supervisor: Ed Arnold	Elite # 2: Anthony Andrews

BILL BARRETT

9.625 Surface

Federal 32A-20-691



Customer: Bill Barrett
Well Description: Federal 32A-20-691
Company Rep: Josh Henderson

Job Date: 04-Jun-2011
Job Type: 9 5/8 Surface
Cement Supervisor: Ed Arnold

Sales Order #: 8195677
ADC Used: yes
Elite # 2: Anthony Andrews

OptiCem v6.4.10
04-Jun-11 13:59

HALLIBURTON

Water Analysis Report

Company: Bill Barrett
Submitted by: Ed Arnold
Attention: J.TROUT
Lease Federal
Well # 32A-20-691

Date: 6/4/2011
Date Rec.: 6/4/2011
S.O.# 8195677
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>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		400 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 i

Sales Order #: 8195677	Line Item: 10	Survey Conducted Date: 6/4/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH HENDERSON		API / UWI: (leave blank if unknown) 05-045-19676
Well Name: FEDERAL		Well Number: 32A-20-691
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	6/4/2011
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	JOSH HENDERSON
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	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	No
Time	Please enter hours in decimal format to nearest quarter hour.	
Other	Enter short text for other efficiencies gained.	
Customer Initials	Customer's Initials	
Please provide details	Please describe how the job efficiencies were gained.	

CUSTOMER SIGNATURE

Sales Order #: 8195677	Line Item: 10	Survey Conducted Date: 6/4/2011
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Customer Representative: JOSH HENDERSON		API / UWI: (leave blank if unknown) 05-045-19676
Well Name: FEDERAL		Well Number: 32A-20-691
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	6/4/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	5
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
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