HALLIBURTON

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

FEDERAL 32B-20-691

Pro Petro

Post Job Summary
Cement Surface Casing

Prepared for: JOSH H.
Date Prepared: 6.3.2011
Version: 1

Service Supervisor: ARNOLD, EDWARD

Submitted by: HALLIBURTON

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 343492	**Ship To #:** 2855775	**Quote #:**	**Sales Order #:** 8107305
Customer: BILL BARRETT CORPORATION E-BILL		**Customer Rep:** Henderson, Josh	
Well Name: FEDERAL	**Well #:** 32B-20-691		**API/UWI #:** 05-045-19678
Field: MAMM CREEK	**City (SAP):** UNKNOWN	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.513 deg. OR N 39 deg. 30 min. 47.945 secs.		**Long:** W 107.575 deg. OR W -108 deg. 25 min. 30.119 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	16	321604	ARNOLD, EDWARD John	16	439784	BRENNECKE, ANDREW Bailey	16	486345
CUNNINGHAM, TANNER Wade	16	445660						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	120 mile	10592964	120 mile	10722398	120 mile	10744549	120 mile
10829465	120 mile	10973571	120 mile	11139330	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6.3.2011	16	3						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	850. ft	**Job Depth TVD**	850. ft		
Water Depth		**Wk Ht Above Floor**	. ft		
Perforation Depth (MD)	**From**		**To**		

Job Times

	Date	Time	Time Zone
Called Out	03 - Jun - 2011	04:30	MST
On Location	03 - Jun - 2011	08:00	MST
Job Started	03 - Jun - 2011	09:09	MST
Job Completed	03 - Jun - 2011	10:22	MST
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				12.325				.	850.		
Surface Pipe	Unknown		9.625	8.921	36.		J-55	.	831.3		

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

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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		10.00	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		60.00	bbl	.	.0	.0	4	

Calculated Values		Pressures		Volumes					
Displacement	60.7	Shut In: Instant		Lost Returns		Cement Slurry	115.2	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	60.7	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	185.9

Rates							
Circulating		Mixing	5	Displacement	4	Avg. Job	4.5
Cement Left In Pipe	Amount 44.4 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

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Cementing Job Log

The Road to Excellence Starts with Safety

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Legal Description:			
Lat: N 39.513 deg. OR N 39 deg. 30 min. 47.945 secs.		**Long:** W 107.575 deg. OR W -108 deg. 25 min. 30.119 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 04:30							
Pre-Convoy Safety Meeting	06/03/2011 05:45							Including entire cement crew
Arrive At Loc	06/03/2011 08:00							Rig running casing.
Assessment Of Location Safety Meeting	06/03/2011 08:05							Water test: PH 7; Hardness 120; So4 <200; Fe 0; KCl 250; Chlorides 0; Temp 60 deg; TDS 600.
Pre-Rig Up Safety Meeting	06/03/2011 08:10							Including entire cement crew
Rig-Up Equipment	06/03/2011 08:15							1 Elite # 2; 1 660 bulk truck; 1 hard line from pump to well head; 1 line to upright. 9.625" screw in head #B0679 Pump Truck And Top Out Truck already on location.
Rig-Up Completed	06/03/2011 08:45							
Pre-Job Safety Meeting	06/03/2011 08:50							Including everyone on location
Start Job	06/03/2011 09:09							TD 850; TP 831.3; SJ 44.4; OH 12.375"; CASING 9.625" 36# J-55.
Other	06/03/2011 09:15		2	2			12.0	Fill lines with fresh water.
Pressure Test	06/03/2011 09:21						2330.0	PSI test good, no leaks.
Pump Spacer 1	06/03/2011 09:25		5	10			129.0	10 BBL fresh water.
Activity Description	**Date/Time**	**Cht**	**Rate bbl/min**	**Volume bbl**		**Pressure psig**		**Comments**

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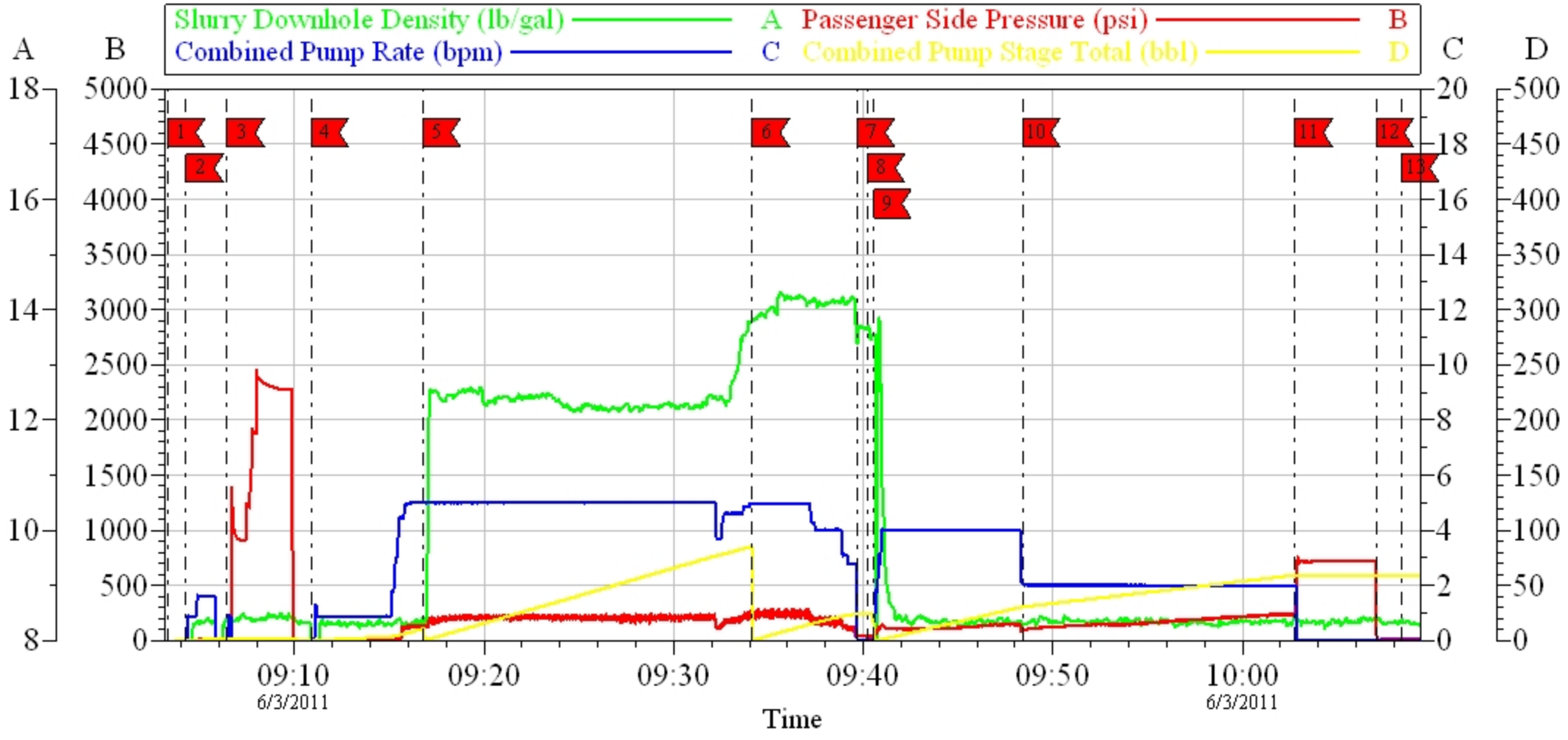
Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Pump Lead Cement	06/03/2011 09:30		5	84.7			230.0	200 SKs Lead cement, 12.3 ppg; 2.38 cf3; 13.75 gal/sk.
Pump Tail Cement	06/03/2011 09:48		5	30.5			100.0	120 SKs Tail cement, 14.2 ppg; 1.43 cf3; 6.88 gal/sk.
Shutdown	06/03/2011 09:53							
Drop Plug	06/03/2011 09:54							Plug left container.
Pump Displacement	06/03/2011 09:55		4	30			148.0	Fresh Water Displacement
Slow Rate	06/03/2011 10:02		2	30.7			240.0	Slow rate last ten BBLs
Bump Plug	06/03/2011 10:17				60.7		740.0	Bumped plug took 500 psi over.
Check Floats	06/03/2011 10:21							Floats held. 1 BBL back.
End Job	06/03/2011 10:22							
Pre-Rig Down Safety Meeting	06/03/2011 12:00							Including entire cement crew. Wait to rig down to see if Top Out was needed.
Standby - Other - see comments	06/03/2011 12:30							Wait on location for next job.
Other	06/03/2011 12:30							Thank You for using Halliburton. Ed Arnold and crew.

Bill Barrett

9.625 Surface

Federal 32B-20-691



Local Event Log

1	Start Job	09:03:19	2	Fill Lines	09:04:18	3	Test Lines	09:06:27
4	H2O Spacer	09:10:53	5	Lead Cenent	09:16:47	6	Tail Cement	09:34:08
7	Shut Down	09:39:42	8	Drop Plug	09:40:13	9	H2O Displacement	09:40:33
10	Slow Rate	09:48:25	11	Bump Plug	10:02:47	12	Check Floats	10:07:03
13	End Job	10:08:24						

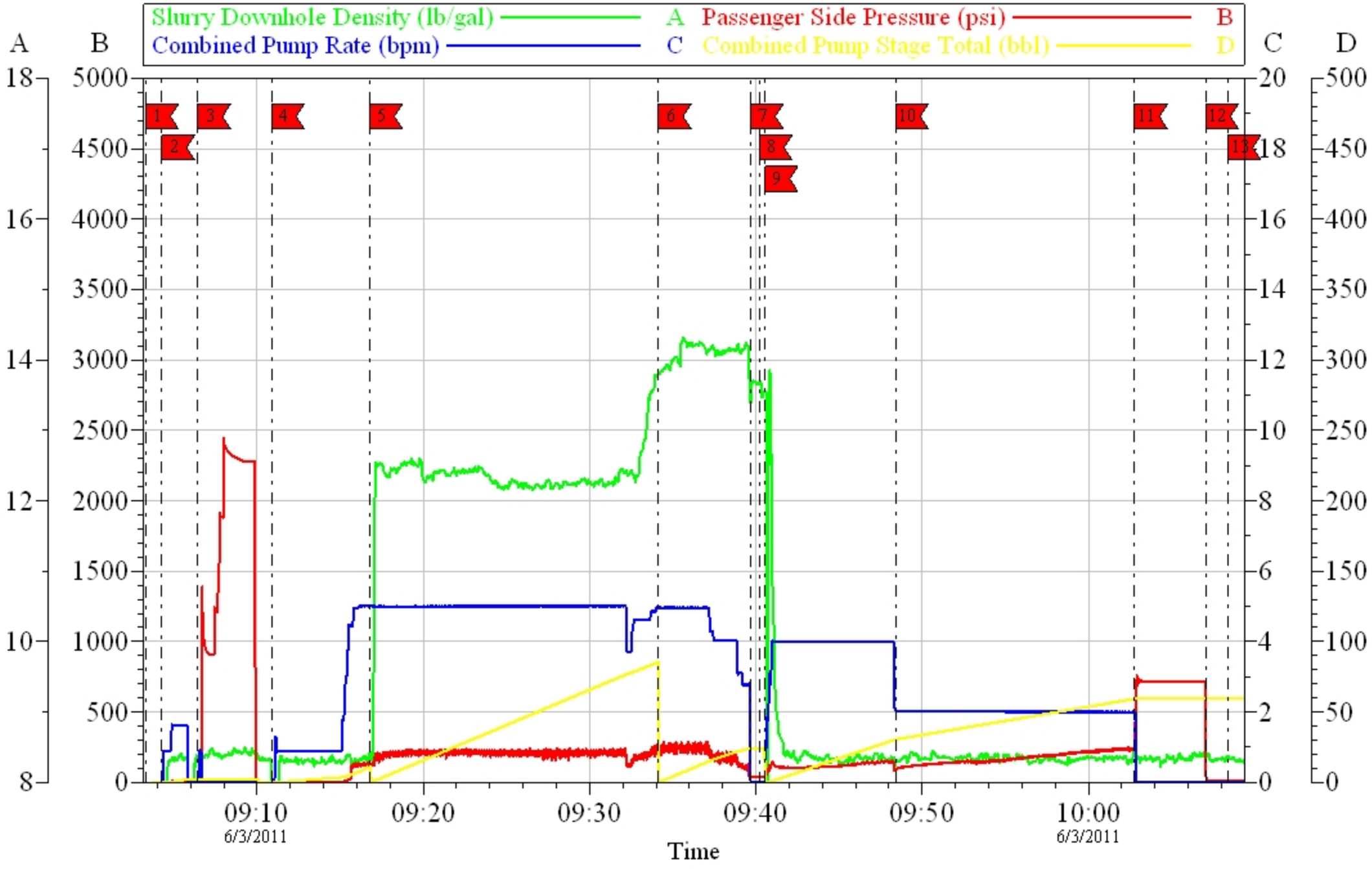
Customer:	Bill Barrett	Job Date:	03-Jun-2011	Sales Order #:	09:03:44
Well Description:	Federal 32-B-20-691	Type:	9.625 Surface	ADC Used:	Yes
Co Rep:	Josh Henderson	Cement Super:	Ed Arnold	Elite # 2:	Tenner Cunningham

OptiCem v6.4.10
06-Jun-11 17:15

Bill Barrett

9.625 Surface

Federal 32B-20-691



Customer:	Bill Barrett	Job Date:	03-Jun-2011	Sales Order #:	09:03:44
Well Description:	Federal 32-B-20-691	Type:	9.625 Surface	ADC Used:	Yes
Co Rep:	Josh Henderson	Cement Super:	Ed Arnold	Elite # 2:	Tenner Cunningham

OptiCem v6.4.10
06-Jun-11 17:16

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
4	FILL LINES	2				
6	Test Lines	3000.0				
9	H2O Spacer	10.0				
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	60.8				
1085	SLOW RATE	50.8	2 BBL/MIN			
26	LAND PLUG	209.7				
511	CHECK FLOATS	709.7				
2	END JOB		Do Not Overdisplace			

DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.
60.83	831.3	44.40	786.90	0.0773	206
		9 5/8 SURFACE			
PSI to Lift	0.00				
CALCULATED PSI LAND		210	TOTAL FLUID PUMPED		188
Collapse	2320	Burst	3560	SO#	8107305

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Water Analysis Report

Company:	Bill Barrett	**Date:**	6/3/2011
Submitted by:	Ed Arnold	**Date Rec.:**	6/3/2011
Attention:	J.TROUT	**S.O.#**	8107305
Lease	FEDERAL	**Job Type:**	Surface
Well #	32B-20-691		

Specific Gravity	*MAX*	1	
pH	*8*	7	
Potassium (K)	*5000*	250	Mg / L
Calcium (Ca)	*500*	120	Mg / L
Iron (FE2)	*300*	0	Mg / L
Chlorides (Cl)	*3000*	0	Mg / L
Sulfates (SO_4)	*1500*	<200	Mg / L
Chlorine (Cl_2)		0	Mg / L
Temp	*40-80*	60	Deg
Total Dissolved Solids		600	Mg / L

Respectfully: Ed Arnold

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
8107305	10	6/3/2011
Customer:		**Job Type (BOM):**
BILL BARRETT CORPORATION E-BILL		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JOSH HENDERSON		05-045-19678
Well Name:		**Well Number:**
FEDERAL		32B-20-691
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	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**	**6/3/2011**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**EDWARD ARNOLD (HX46731)**
Customer Participation	**Did the customer partipcipate 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

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
8107305	10	6/3/2011
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BILL BARRETT CORPORATION E-BILL		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JOSH HENDERSON		05-045-19678
Well Name:		**Well Number:**
FEDERAL		32B-20-691
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	6/3/2011

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.	3
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	5
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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JOSH HENDERSON		05-045-19678
Well Name:		**Well Number:**
FEDERAL		32B-20-691
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	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 cment 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	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