
BILL BARRETT CORPORATION E-BILL

**JOLLEY 42B-20-691
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
29-May-2011

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2855728	Quote #:	Sales Order #: 8195681
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Henderson, Josh		
Well Name: JOLLEY	Well #: 42B-20-691	API/UWI #: 05-045-19679	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.513 deg. OR N 39 deg. 30 min. 47.927 secs.	Long: W 107.575 deg. OR W -108 deg. 25 min. 30.245 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: 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 #
BROWN, TRAVIS A	60	396848	CHASTAIN, DERICK Allan	60	455848	DEUSSEN, EDWARD Eric	60	485182
HUGENTOBLE, LOGAN Mark	60	447333						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10297346	120 mile	10551730C	120 mile	10867304	120 mile	10867322	120 mile
10973571	120 mile	10998054	120 mile	10998512	120 mile	11071559	120 mile
11259884	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/26/11	14	2	5/28/11	24	4	5/29/11	22	4

TOTAL Total is the sum of each column separately

Job

Formation Name					Date				Time	Time Zone		
Formation Depth (MD)	Top			Bottom	Called Out				26 - May - 2011	06:00	MST	
Form Type				BHST		On Location			26 - May - 2011	09:00	MST	
Job depth MD	860. ft			Job Depth TVD		860. ft			Job Started	26 - May - 2011	16:45	MST
Water Depth				Wk Ht Above Floor		2. ft			Job Completed	29 - May - 2011	19:19	MST
Perforation Depth (MD)	From			To	Departed Loc			29 - May - 2011	23:05	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				13.5				.	800.		
Surface	New		9.625	8.921	36.		J-55	.	800.		

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		
KIT,HALL WELD-A	8	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)	120.0	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		61.00	bbl	.	.0	.0	5	
Calculated Values		Pressures		Volumes					
Displacement	61	Shut In: Instant		Lost Returns	0	Cement Slurry	80	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	61	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	0 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					

JOB PROCEDURE PRO PETRO

Pre-Planned Job Procedure Surface Pipe

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		DENSITY OVER RATE			
6	Test Lines	3000				
10	H2O Spacer	20.0		8.33		
	Lead Cement	50.9	120	12.3	2.38	13.75
15	Tail Cement	30.6	120	14.2	1.43	6.58
	Shut Down		500 psi over			
22	Drop Plug					
	Slow Rate	51.0				
23	Displace W/H2O	61.0				
26	Land Plug	194.5				
2	End Job					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
61.04	834.8	45.12	789.68	0.0773	154	
PSI to Lift Pipe	412.8	*****Use Mud Scales on Each Tier*****				
Total Displacement	61.04					
CALCULATED DIFFERENTIAL PSI	194	TOTAL FLUID PUMPED	162			
Collapse	1400	Burst	2270	SO#	8195679	

The Road to Excellence Starts with Safety

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Well Name: JOLLEY	Well #: 42B-20-691	API/UWI #: 05-045-19679	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.513 deg. OR N 39 deg. 30 min. 47.927 secs.		Long: W 107.575 deg. OR W -108 deg. 25 min. 30.245 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		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	05/26/2011 06:00							
Pre-Convoy Safety Meeting	05/26/2011 07:00							ALL HES EMPLOYEES
Arrive At Loc	05/26/2011 09:00							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	05/26/2011 09:10							ALL HES EMPLOYEES
Rig-Up Equipment	05/26/2011 09:15							1 HT-400 PUMP TRUCK, 4 660 BULK TRUCK, 1 F-450 P/U, 1 PLUG CONTAINER
Pre-Job Safety Meeting	05/26/2011 16:30							ALL HES EMPLOYEES, RIG CREW, CO REP AND ANY 3RD PARTY VENDORS
Start Job	05/26/2011 16:45							TP 834.8 FT, TD 855 FT, FC 789.7 FT, HOLE 12.25", MUD WT AIR, RATE WILL BE 5, WILL BUMP 500 PSI OVER LAND PSI
Pump Water	05/26/2011 16:46		2	2			16.0	FILL LINES PRIOR TO PRESSURE TESTING LINES
Pressure Test	05/26/2011 16:54							NO LEAKS, KICK OUTS SET TO 3000 PSI FOR TEST.
Pump Spacer 1	05/26/2011 17:01		5	20			78.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	05/26/2011 17:05		5	50			127.0	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	05/26/2011 17:15		5	30			147.0	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	05/26/2011 17:20							
Drop Plug	05/26/2011 17:21							PLUG LAUNCHED
Pump Displacement	05/26/2011 17:21		5	61			247.0	FRESH WATER
Slow Rate	05/26/2011 17:31		4				289.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	05/26/2011 17:34						775.0	PLUG LANDED
Check Floats	05/26/2011 17:37							FLOATS HOLDING, NO CEMENT TO SURFACE
End Job	05/26/2011 17:38							THANK YOU FOR USING HES LOGAN HUGENTOBLE AND CREW
Start Job	05/28/2011 07:47							USED LEAD CEMENT FROM WELL 42A-20- 691
Pump Cement	05/28/2011 07:49		2	50			45.0	120 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.38 YIELD, 13.77 GAL/SK, PUMPED 50 BBLS NO CEMENT RETURNS.
End Job	05/28/2011 08:13							ORDERED MORE CEMENT
Start Job	05/28/2011 17:05							
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Cementing Job Log

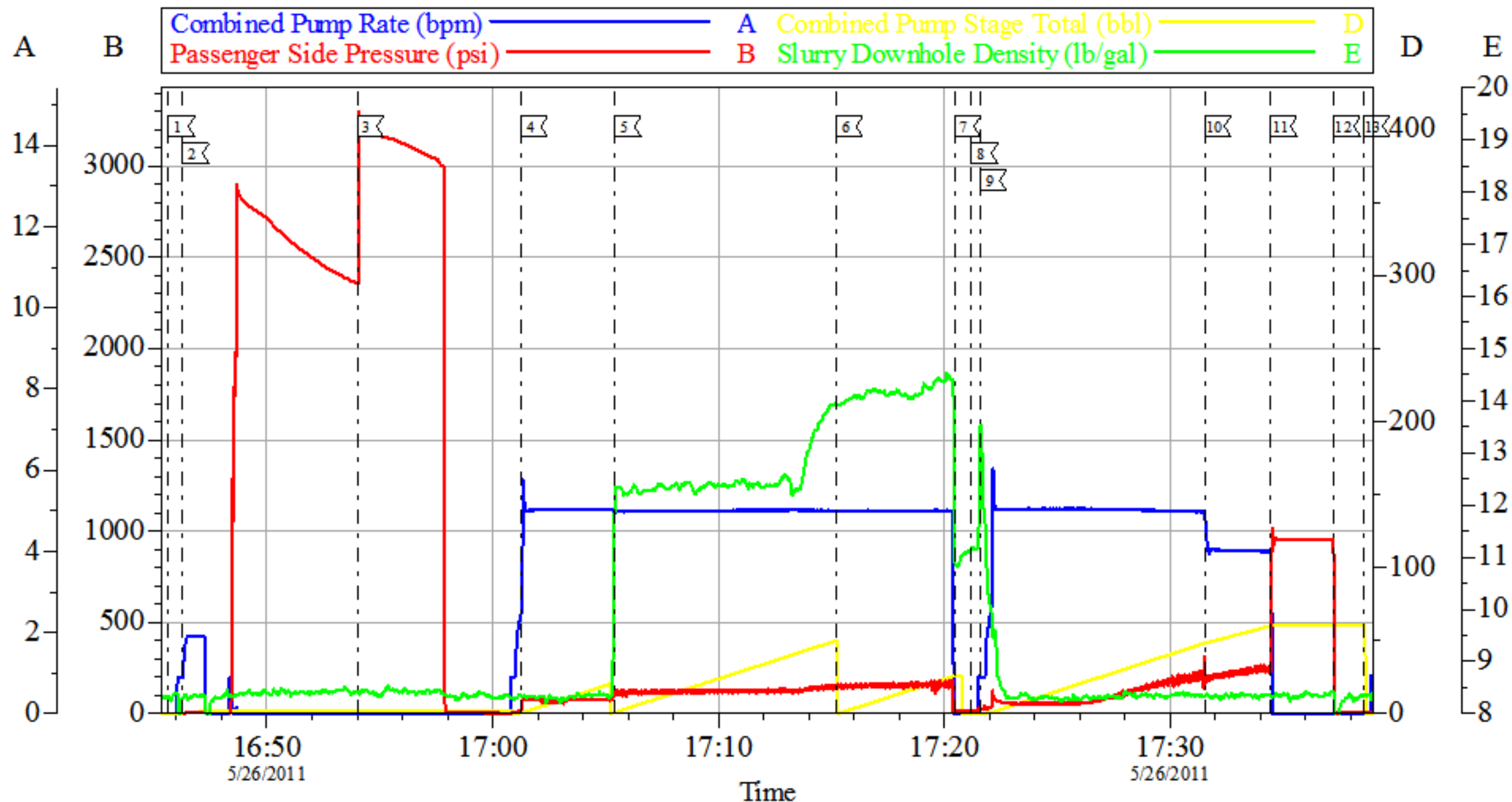
Pump Cement	05/28/2011 17:07		2	50			55.0	188 SKS TOP-OUT CEMENT TO BE MIXED 14 PPG, 1.51 YEILD, 7.71 GAL/SK, PUMPED 50 BBLS, NO CEMENT RETURNS
End Job	05/28/2011 17:30							
Start Job	05/28/2011 19:17							
Pump Cement	05/28/2011 19:19		2	50			58.0	187 SKS TOP-OUT CEMENT TO BE MIXED 14 PPG, 1.51 YEILD, 7.71 GAL/SK, PUMPED 50 BBLS, NO CEMENT RETURNS
End Job	05/28/2011 19:43							ORDERED MORE CEMENT
Start Job	05/29/2011 07:11							
Pump Cement	05/29/2011 07:13		2	43			45.0	188 SKS TOP-OUT CEMENT TO BE MIXED 15 PPG, 1.28 YEILD, 6.02 GAL/SK, PUMPED 50 BBLS, ADDED 7 SKS CALCIUM CHLORIDE TO CEMENT NO CEMENT RETURNS
End Job	05/29/2011 07:32							
Start Job	05/29/2011 09:36							
Pump Cement	05/29/2011 09:37		2	43			53.0	187 SKS TOP-OUT CEMENT TO BE MIXED 15 PPG, 1.28 YEILD, 6.02 GAL/SK, PUMPED 50 BBLS, ADDED 7 SKS CALCIUM CHLORIDE TO CEMENT NO CEMENT RETURNS
End Job	05/29/2011 09:56							ORDERED MORE CEMENT
Start Job	05/29/2011 18:58							
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Cementing Job Log

Pump Cement	05/29/2011 19:00		2	38			52.0	110 SKS HALCEM CEMENT TO BE MIXED 12.5 PPG, 1.97 YEILD, 10.96 GAL/SK, PUMPED 20 BBLS, GOT CEMENT TO SURFACE PUMPED 18 MORE BBLS INTO TWO OTHER WELLS NEEDING TOP-OUT
End Job	05/29/2011 19:19							LEFT 265 SKS OF CEMENT ON LOCATION FOR OTHER TOP-OUTS
Post-Job Safety Meeting (Pre Rig-Down)	05/29/2011 20:00							ALL HES EMPLOYEES
Rig-Down Equipment	05/29/2011 20:05							THANK YOU FOR USING HES LOGAN HUGENTOBLE AND CREW
Pre-Convoy Safety Meeting	05/29/2011 23:00							ALL HES EMPLOYEES
Crew Leave Location	05/29/2011 23:05							LOCATION CLEAN

BILL BARRETT

9.625 SURFACE



Local Event Log			
1 START JOB	16:45:39	2 PRIME LINES	16:46:17
3 PRESSURE TEST	16:54:00	4 PUMP H2O SPACER	17:01:16
5 PUMP LEAD CEMENT	17:05:24	6 PUMP TAIL CEMENT	17:15:13
7 SHUTDOWN	17:20:27	8 DROP PLUG	17:21:13
9 PUMP DISPLACEMENT	17:21:36	10 SLOW RATE	17:31:32
11 BUMP PLUG	17:34:28	12 CHECK FLOATS	17:37:16
13 END JOB	17:38:33		

Customer: BILL BARRETT
Well Description: 42B-20-691
Company Rep: JOSH HENDERSON

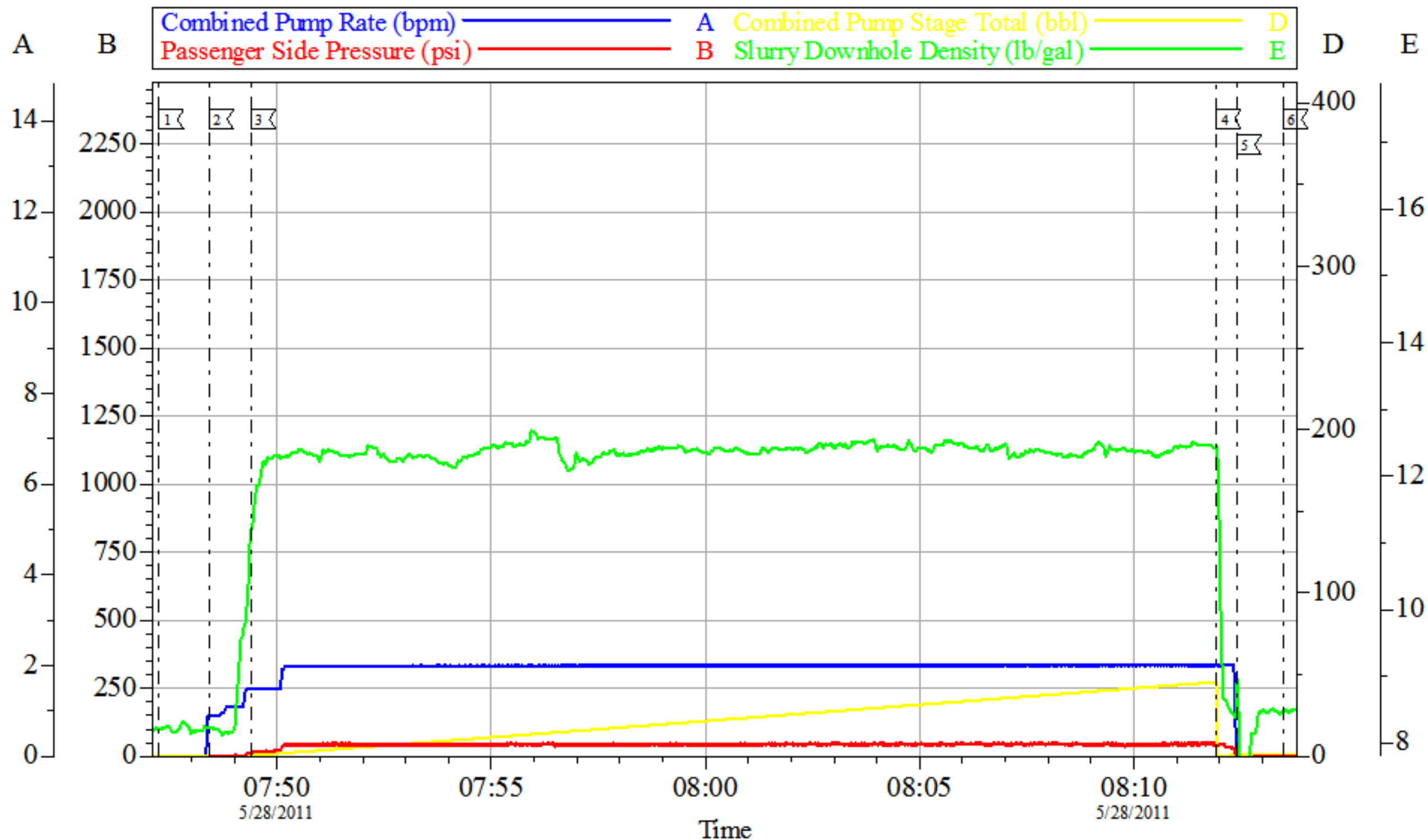
Job Date: 26-May-2011
Job Type: SURFACE
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 8195679
ADC Used: YES
Elite #2 / Operator: ED DUESSEN

Opti Cem v6.4.10
26-May-11 18:37

BILL BARRETT

TOP-OUT#1



Local Event Log

1 START JOB	07:47:14	2 PUMP H2O AHEAD	07:48:24	3 PUMP TOP-OUT CEMENT	07:49:23
4 PUMP H2O BEHIND	08:11:56	5 SHUTDOWN	08:12:24	6 END JOB	08:13:29

Customer: BILL BARRETT
Well Description: 42B-20-691
Company Rep: JOSH HENDERSON

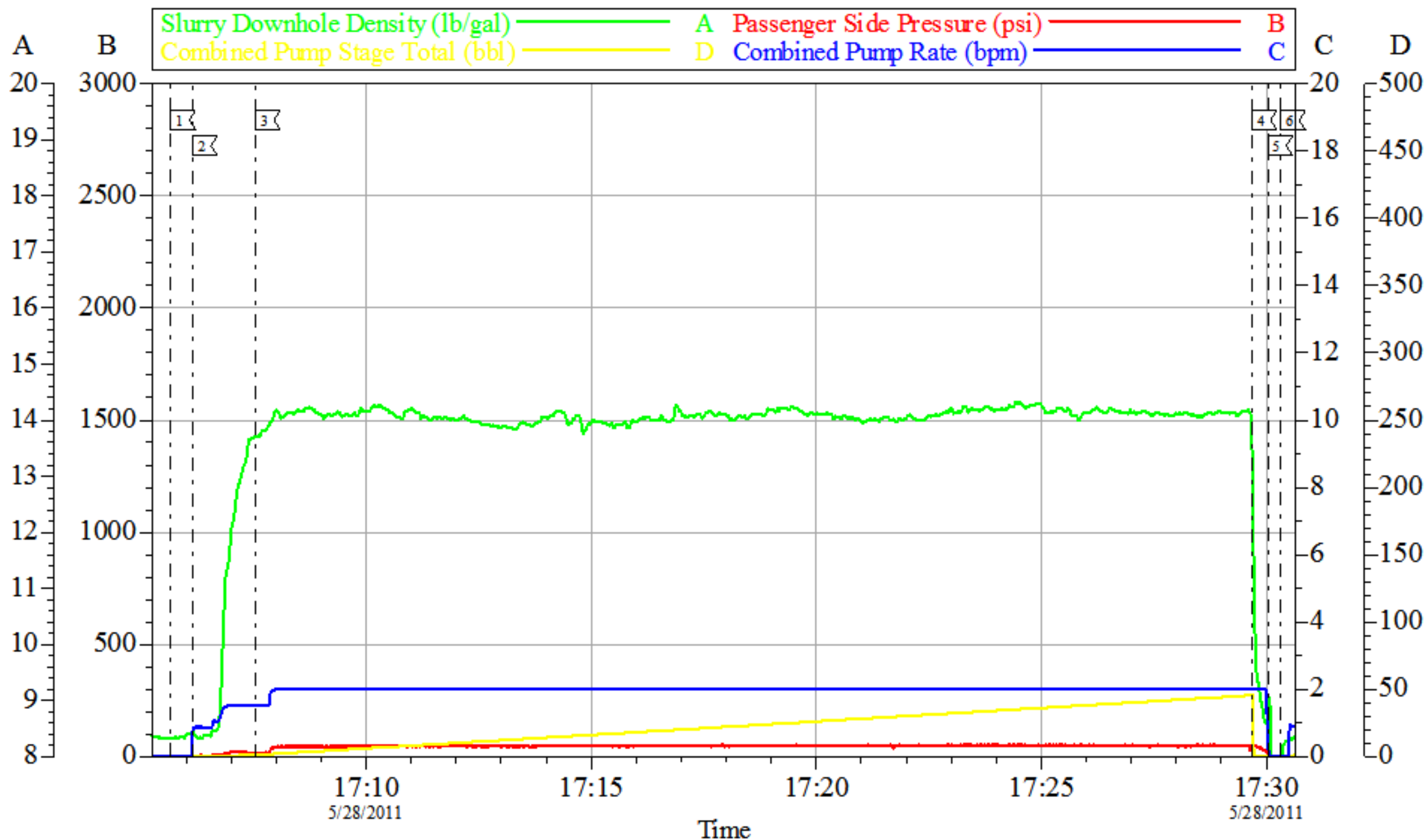
Job Date: 28-May-2011
Job Type: TOP-OUT#1
Cement Supervisor: LOGAN HUGENTOBLER

Sales Order #: 8195681
ADC Used: YES
Elite # 2/ Operator: TRAVIS BROWN

Opti Cem v6.4.10
28-May-11 15:07

BILL BARRETT

TOP-OUT #2



Local Event Log					
1	START JOB	17:05:40	2	PUMP H2O AHEAD	17:06:08
3	PUMP CEMENT	17:07:33	4	PUMP H2O BEHIND	17:29:41
5	SHUT DOWN	17:30:02	6	END JOB	17:30:19

Customer: BILL BARRETT
Well Description: 42B-20-691
Company Rep: JOSH HENDERSON

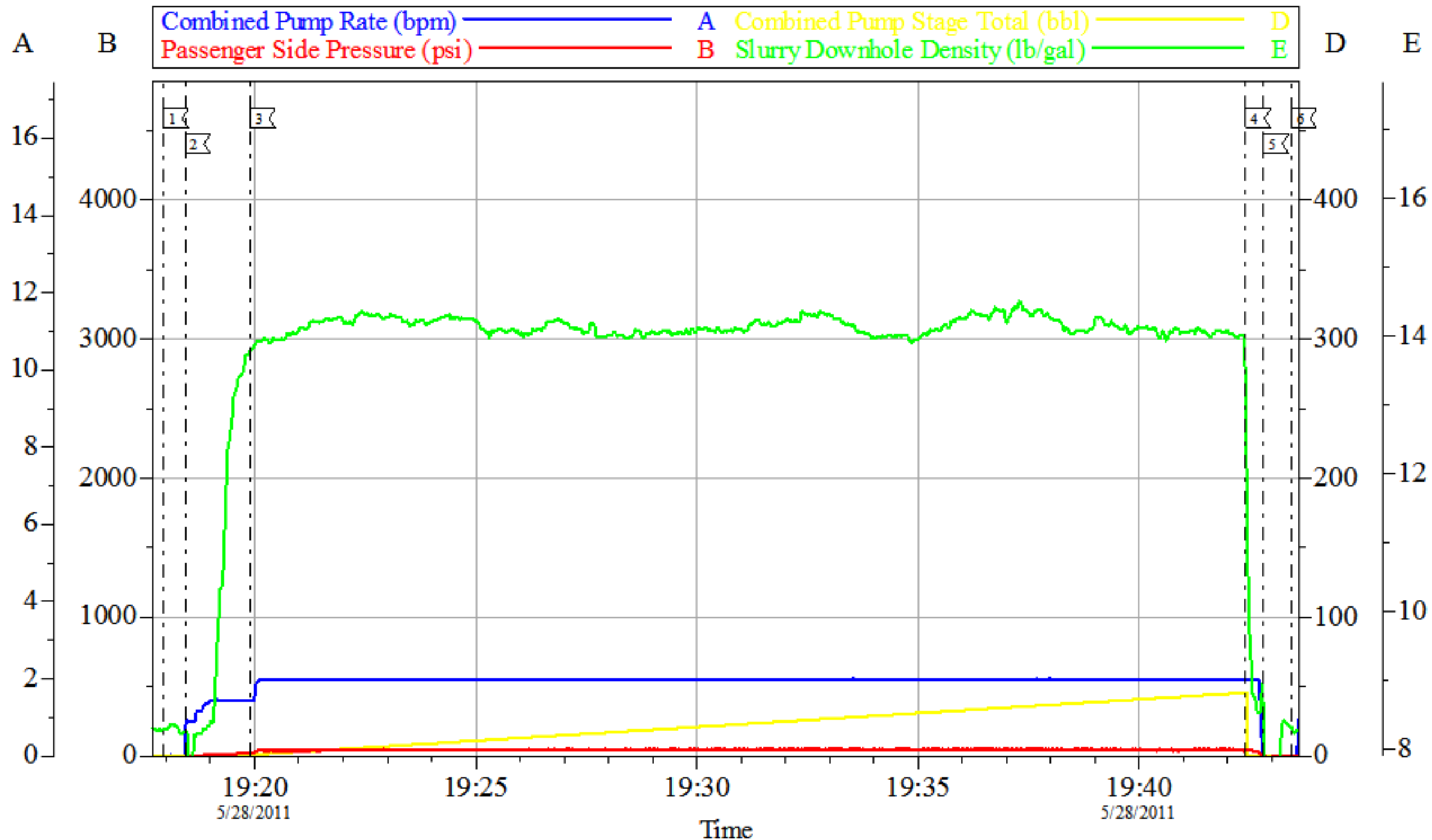
Job Date: 28-May-2011
Job Type: TOP-OUT#2
Cement Supervisor: LOGAN HUGENTOBLER

Sales Order #: 8195681
ADC Used: YES
Elite # 2/ Operator: TRAVIS BROWN

Opti Cem v6.4.10
29-May-11 09:30

BILL BARRETT

TOP-OUT#3



Local Event Log

1 START JOB	19:17:56	2 PUMP H2O AHEAD	19:18:26	3 PUMP CEMENT	19:19:54
4 PUMP H2O BEHIND	19:42:25	5 SHUTDOWN	19:42:49	6 END JOB	19:43:27

Customer: BILL BARRETT
Well Description: 42B-20-691
Company Rep: JOSH HENDERSON

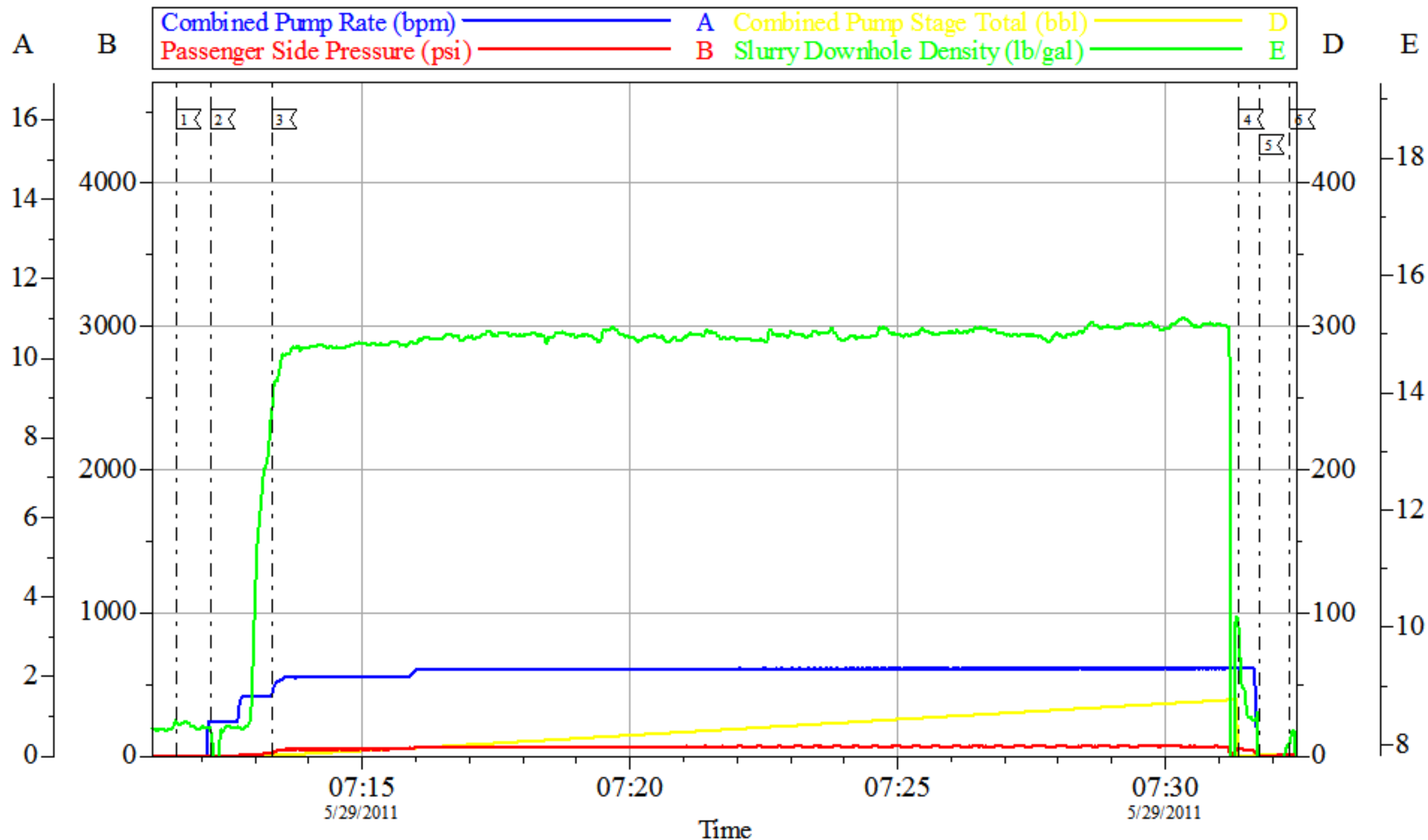
Job Date: 28-May-2011
Job Type: TOP-OUT#3
Cement Supervisor: LOGAN HUGENTOBLER

Sales Order #: 8195681
ADC Used: YES
Elite # 2/ Operator: TRAVIS BROWN

Opti Cem v6.4.10
29-May-11 20:35

BILL BARRETT

TOP-OUT #4



Local Event Log					
1	START JOB	07:11:31	2	PUMP H2O AHEAD	07:12:10
3	PUMP CEMENT	07:13:19	4	PUMP H2O BEHIND	07:31:23
5	SHUTDOWN	07:31:45	6	END JOB	07:32:20

Customer: BILL BARRETT
Well Description: 42B-20-691
Company Rep: JOSH HENDERSON

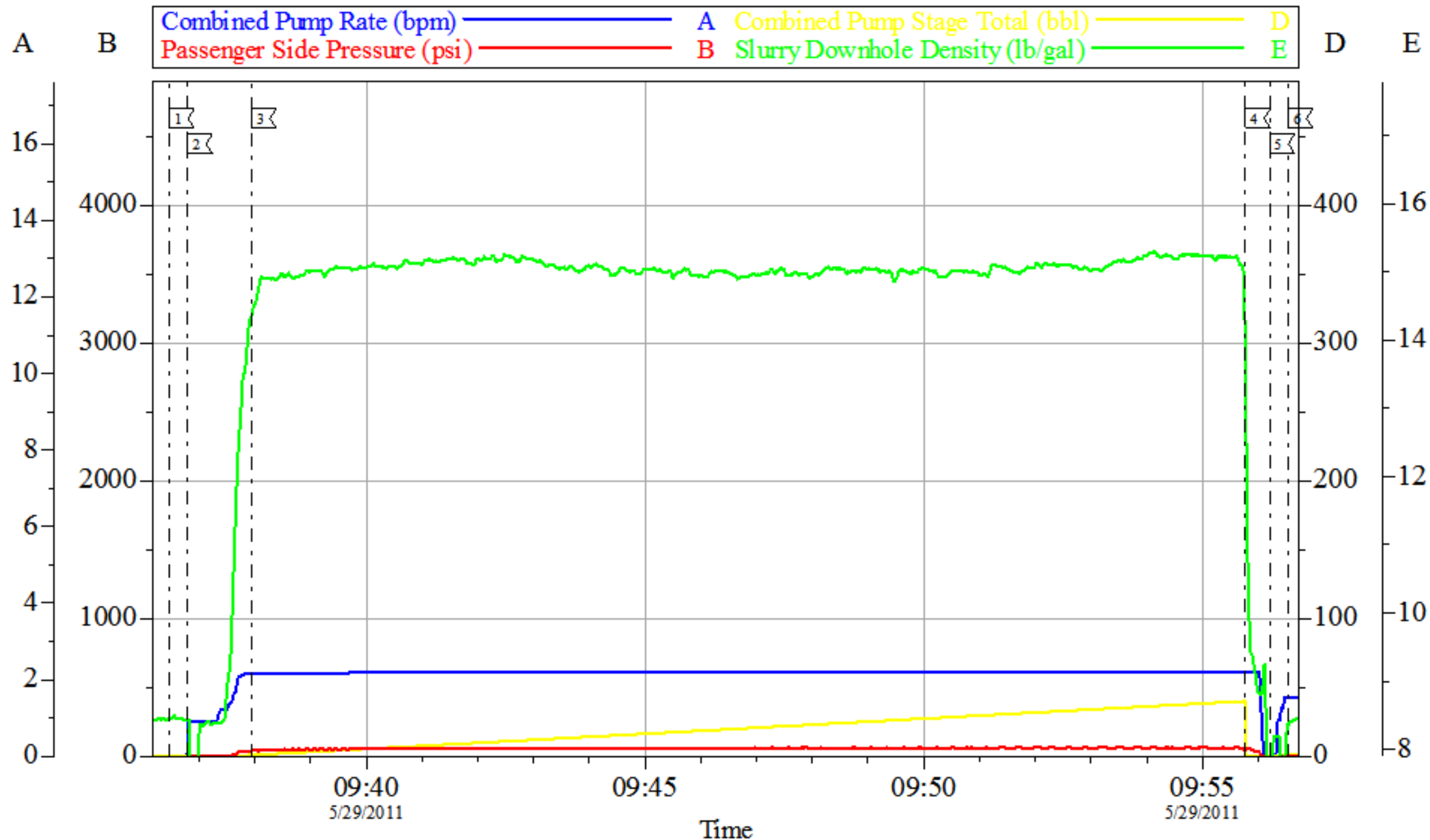
Job Date: 29-May-2011
Job Type: TOP-OUT#4
Cement Supervisor: LOGAN HUGENTOBLER

Sales Order #: 8195681
ADC Used: YES
Elite #2 / Operator: TRAVIS BROWN

Opti Cem v6.4.10
29-May-11 20:43

BILL BARRETT

TOP-OUT#5



Local Event Log

1 START JOB	09:36:28	2 PUMP H2O AHEAD	09:36:48	3 PUMP CEMENT	09:37:56
4 PUMP H2O BEHIND	09:55:46	5 SHUTDOWN	09:56:13	6 END JOB	09:56:32

Customer: BILL BARRETT
Well Description: 42B-20-691
Company Rep: JOSH HENDERSON

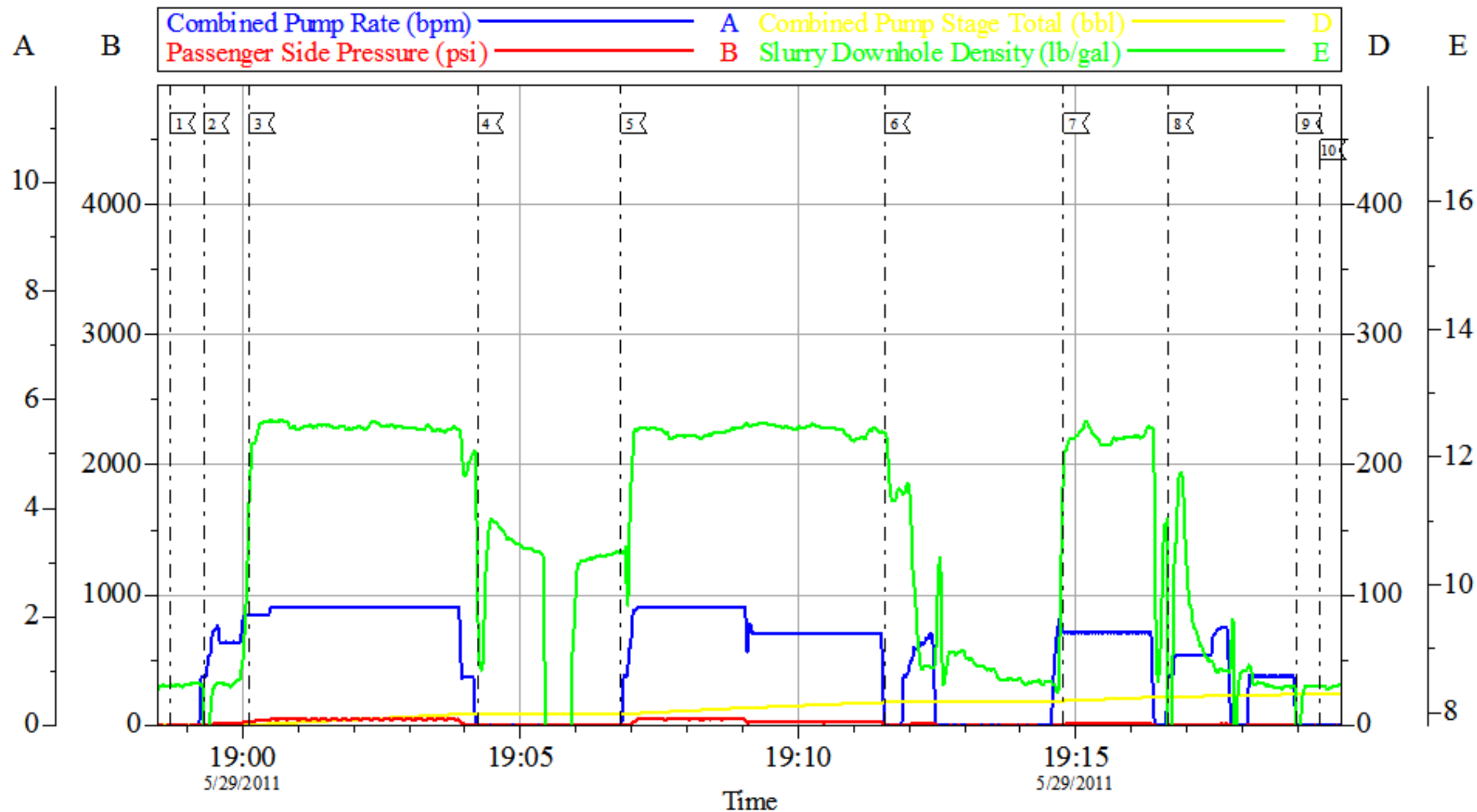
Job Date: 29-May-2011
Job Type: TOP-OUT#5
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 8195681
ADC Used: YES
Elite # 2/ Operator: TRAVIS BROWN

Opti Cem v6.4.10
29-May-11 20:50

BILL BARRETT

TOP-OUT#6



Local Event Log					
1	START JOB	18:58:41	2	PUMP H2O AHEAD	18:59:17
3	PUMP CEMENT	19:00:07	4	SHUTDOWN	19:04:14
5	PUMP CEMENT	19:06:49	6	SHUTDOWN	19:11:34
7	PUMP CEMENT	19:14:47	8	PUMP H2O BEHIND	19:16:40
9	SHUTDOWN	19:18:59	10	END JOB	19:19:24

Customer: BILL BARRETT
 Well Description: 42B-20-691
 Company Rep: JOSH HENDERSON

Job Date: 29-May-2011
 Job Type: TOP-OUT#6
 Cement Supervisor: LOGAN HUGENTOBLER

Sales Order #: 8195681
 ADC Used: YES
 Elite # 2/ Operator: TRAVIS BROWN

Opti Cem v6.4.10
 29-May-11 21:06

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT

Submitted by: LOGAN HUGENTOBLER

Attention:

Lease JOLLEY

Well # 42B-20-691

Date: 5/26/2011

Date Rec.: 5/26/2011

S.O.# 8195679

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>250</i> Mg / L
Iron (FE2)	<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>62</i> Deg
Total Dissolved Solids		<i>470</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 c

Sales Order #: 8195681	Line Item: 10	Survey Conducted Date: 5/30/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH HENDERSON		API / UWI: (leave blank if unknown) 05-045-19679
Well Name: JOLLEY		Well Number: 42B-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	5/30/2011
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	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 #: 8195681	Line Item: 10	Survey Conducted Date: 5/30/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH HENDERSON		API / UWI: (leave blank if unknown) 05-045-19679
Well Name: JOLLEY		Well Number: 42B-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 The date the survey was conducted	5/30/2011

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.	60
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.	10
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	14
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 #: 8195681	Line Item: 10	Survey Conducted Date: 5/30/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH HENDERSON		API / UWI: (leave blank if unknown) 05-045-19679
Well Name: JOLLEY		Well Number: 42B-20-691
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