
BILL BARRETT CORPORATION E-BILL

**FEDERAL 44B-33-691
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
19-Dec-2011

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2896396	Quote #:	Sales Order #: 9132808
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Hartnett, Jack		
Well Name: FEDERAL	Well #: 44B-33-691	API/UWI #: 05-045-20860	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.479 deg. OR N 39 deg. 28 min. 45.077 secs.	Long: W 107.553 deg. OR W -108 deg. 26 min. 47.994 secs.		
Contractor: PROPETRO	Rig/Platform Name/Num: PROPETRO 1		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: FLING, MATTHEW	Srvc Supervisor: SLAUGHTER, JESSE	MBU ID Emp #: 454315	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
REEVES, BRANDON W	2	287883	SLAUGHTER, JESSE Dean	2	454315	SPARKS, CLIFFORD Paul	2	502476

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	120 mile	10867322	120 mile	10998512	120 mile	11583931	120 mile
11808827	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-19-2011	2	2						

TOTAL Total is the sum of each column separately

Job

Formation Name													Date		Time		Time Zone	
Formation Depth (MD)		Top				Bottom				Called Out		19 - Dec - 2011		00:00		MST		
Form Type				BHST						On Location								
Job depth MD		879.1 ft		Job Depth TVD		879.1 ft				Job Started		19 - Dec - 2011		17:15		MST		
Water Depth				Wk Ht Above Floor		1. ft				Job Completed		19 - Dec - 2011		17:57		MST		
Perforation Depth (MD)		From				To				Departed Loc		19 - Dec - 2011		19:10		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
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		
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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

1	WATER SPACER	FRESH WATER	20.00	bbl	8.34	.0	.0	4	
2	VERSACEM	VERSACEM (TM) SYSTEM (452010)	125.0	sacks	12.3	2.38	13.77	6	13.77
	0.25 lbm	POLY-E-FLAKE (101216940)							
	13.77 Gal	FRESH WATER							
3	SWIFTCEM	SWIFTCEM (TM) SYSTEM (452990)	125.0	sacks	14.2	1.43	6.85	6	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT	FRESH WATER	64.5	bbl	8.3			6	
Calculated Values		Pressures		Volumes					
Displacement	64.5	Shut In: Instant		Lost Returns	NO	Cement Slurry	84.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	64.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	172
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
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					

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Legal Description:			
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Contractor: PROPETRO		Rig/Platform Name/Num: PROPETRO 1	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srvc Supervisor: SLAUGHTER, JESSE	MBU ID Emp #: 454315

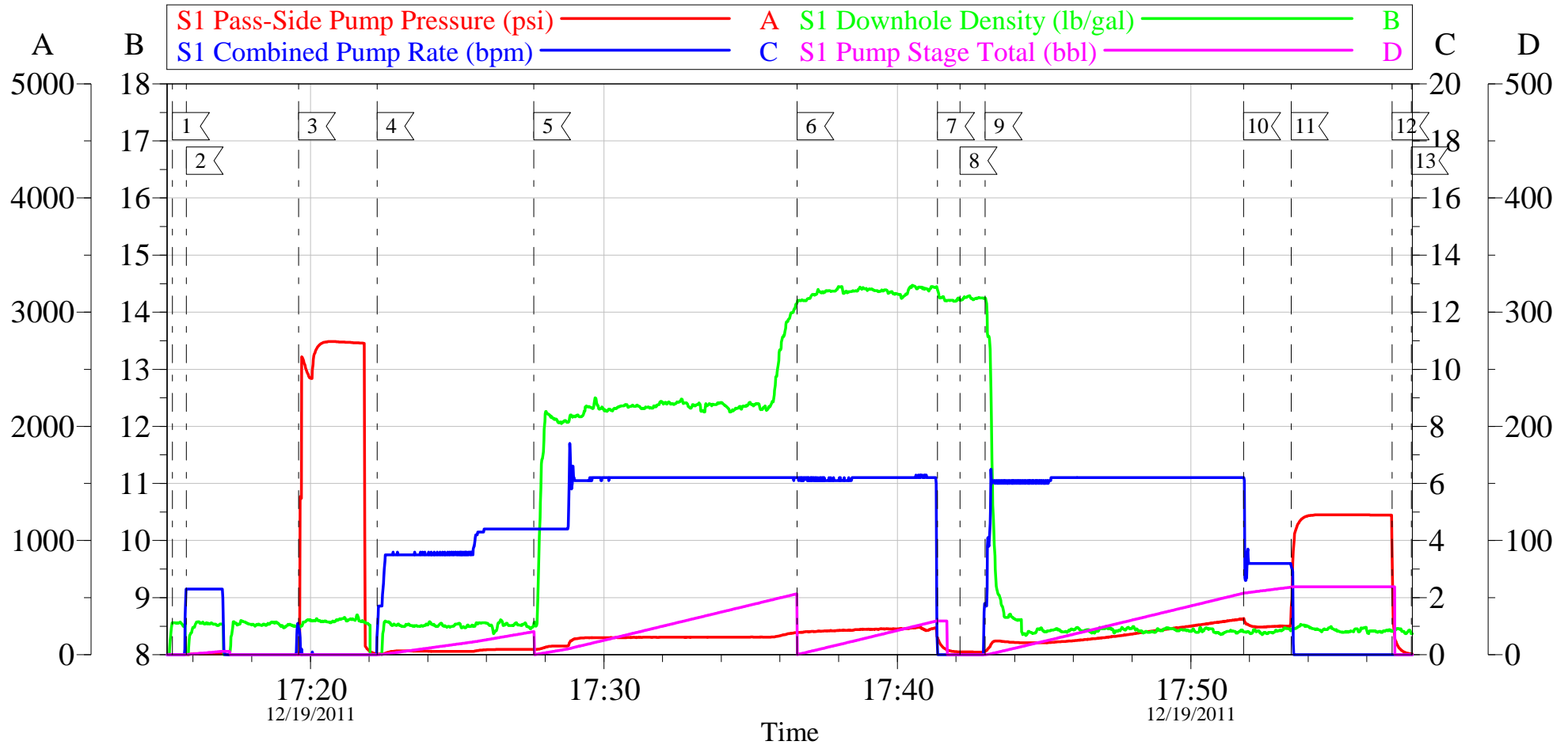
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/19/2011 00:00							TD 890 FT, TP 879.1 FT, SHOE 44.70 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 12 3/8 IN
Arrive At Loc	12/19/2011 02:00							CREW STAYED ON LOCATION FROM PREVIOUS JOB
Assessment Of Location Safety Meeting	12/19/2011 16:40							WITH ALL HES PERSONNEL
Other	12/19/2011 16:45							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/19/2011 16:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	12/19/2011 16:55							
Pre-Job Safety Meeting	12/19/2011 17:05							WITH ALL PERSONNEL ON LOCATION
Start Job	12/19/2011 17:15							
Other	12/19/2011 17:15		2	2			10.0	FILL LINES WITH FRESH WATER
Test Lines	12/19/2011 17:19							TESTED LINES TO 2740 PSI PRESSURE HOLDING
Pump Spacer 1	12/19/2011 17:22		4	20			50.0	FRESH WATER
Pump Lead Cement	12/19/2011 17:27		6	53			165.0	125 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Pump Tail Cement	12/19/2011 17:36		6	31.8			250.0	125 SKS AT 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK
Shutdown	12/19/2011 17:41							
Drop Top Plug	12/19/2011 17:42							PLUG LAUNCHED

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	12/19/2011 17:43		6	54.5			290.0	FRESH WATER
Slow Rate	12/19/2011 17:51		3	10			250.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/19/2011 17:53		3		64.5		1180. 0	PLUG BUMPED
Check Floats	12/19/2011 17:56							FLOATS HOLDING. HES RETURNED 1 BBL H2O TO PUMP
End Job	12/19/2011 17:57							PIPE WAS STATIC THROUGHOUT JOB, GOOD CIRCULATION THROUGHOUT JOB, HES RETURNED 30 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	12/19/2011 18:00							WITH ALL HES PERSONNEL
Rig-Down Equipment	12/19/2011 18:10							
Pre-Convoy Safety Meeting	12/19/2011 19:00							WITH ALL HES PERSONNEL
Crew Leave Location	12/19/2011 19:10							LEFT PUMP ON LOCATION
Comment	12/19/2011 19:11							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.

BILL BARRETT FEDERAL 44B-33-691

9 5/8 SURFACE



Local Event Log

1 START JOB	17:15:18	2 PRIME LINES	17:15:46	3 TEST LINES	17:19:36
4 PUMP H2O SPACER	17:22:17	5 PUMP LEAD CEMENT	17:27:37	6 PUMP TAIL CEMENT	17:36:35
7 SHUTDOWN	17:41:22	8 DROP TOP PLUG	17:42:08	9 PUMP DISPLACEMENT	17:43:00
10 SLOW RATE	17:51:48	11 BUMP PLUG	17:53:25	12 CHECK FLOATS	17:56:52
13 END JOB	17:57:31				

Customer: BILL BARRETT
Well Description: FEDERAL 44D-33-691
Customer Rep: CASEY LAUER

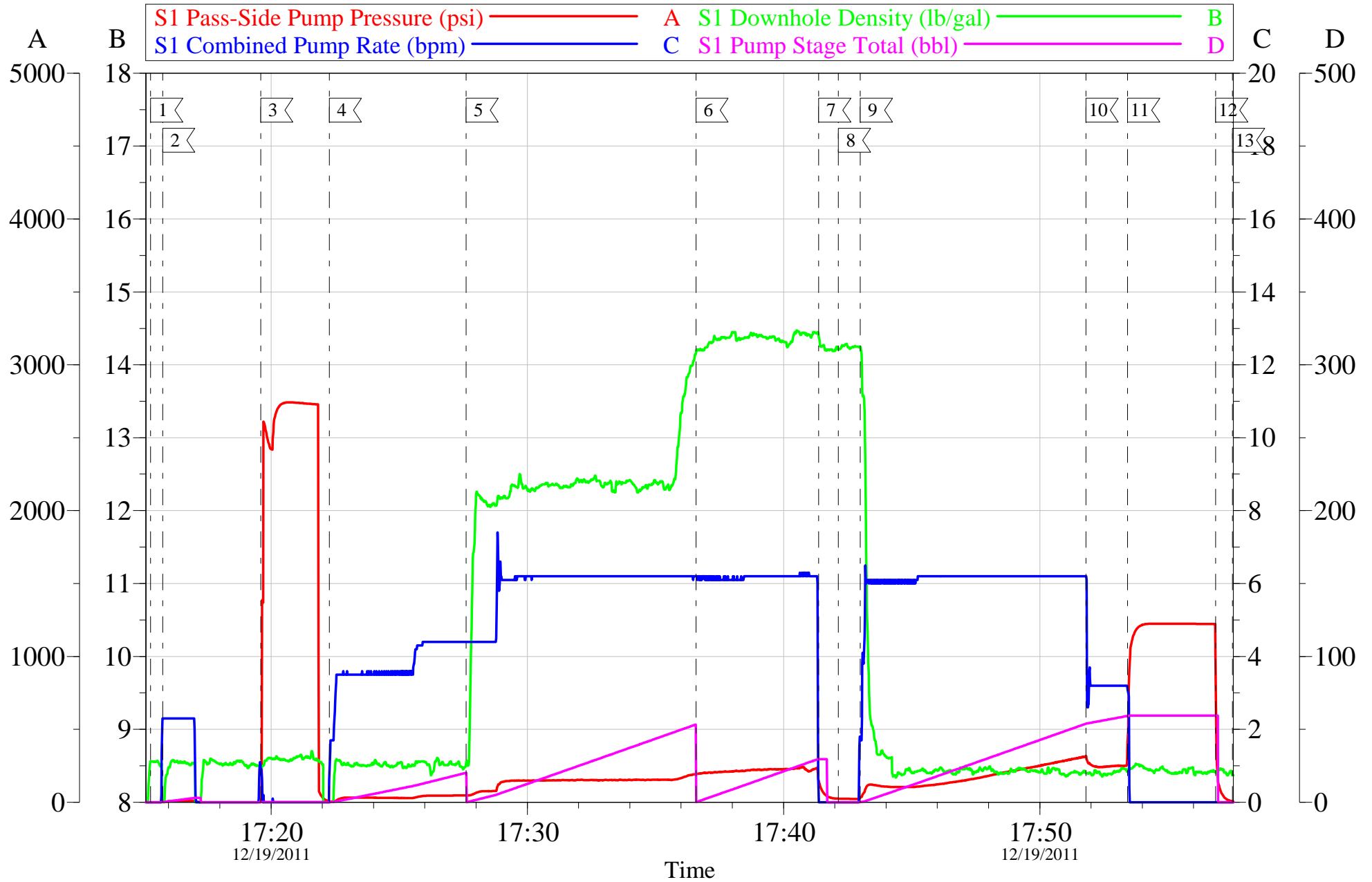
Job Date: 19-Dec-2011
Job Type: SURFACE
Cement Supervisor: JESSE SLAUGHTER

Sales Order #: 9132808
ADC Used: YES
Elite #4: BRANDON REEVES

OptiCem v6.4.10
19-Dec-11 18:07

BILL BARRETT FEDERAL 44B-33-691

9 5/8 SURFACE



Customer: BILL BARRETT	Job Date: 19-Dec-2011	Sales Order #: 9132808
Well Description: FEDERAL 44D-33-691	Job Type: SURFACE	ADC Used: YES
Customer Rep: CASEY LAUER	Cement Supervisor: JESSE SLAUGHTER	Elite #4: BRANDON REEVES

OptiCem v6.4.10
19-Dec-11 18:08

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT

Submitted by: JESSE SLAUGHTER

Attention: LAB

Lease FEDERAL

Well # 44b-33-691

Date: 12/19/2011

Date Rec.:

S.O.# 9132808

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6
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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	40 Deg
Total Dissolved Solids		200 Mg / L

Respectfully: JESSE SLAUGHTER

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 #: 9132808	Line Item: 10	Survey Conducted Date: 12/19/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20860
Well Name: FEDERAL		Well Number: 44B-33-691
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	12/19/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JESSE SLAUGHTER (HB21762)
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 #: 9132808	Line Item: 10	Survey Conducted Date: 12/19/2011
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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20860
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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	12/19/2011

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.	2
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: FEDERAL		Well Number: 44B-33-691
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	99
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