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# **BILL BARRETT CORPORATION**

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**CBS 42B-21-692  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
10-Nov-2011

**Job Site Documents**

Sold To # : 343492

Ship To # :2889252

Quote # :

Sales Order # : 9043

SUMMIT Version: 7.2.27

Thursday, November 10, 2011

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343492		<b>Ship To #:</b> 2889252		<b>Quote #:</b>		<b>Sales Order #:</b> 9043550	
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL				<b>Customer Rep:</b> Lauer, Casey			
<b>Well Name:</b> CBS			<b>Well #:</b> 42B-21-692			<b>API/UWI #:</b> 05-045-20128	
<b>Field:</b> MAMM CREEK		<b>City (SAP):</b> SILT		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Lat:</b> N 39.515 deg. OR N 39 deg. 30 min. 52.452 secs.				<b>Long:</b> W 107.671 deg. OR W -108 deg. 19 min. 43.439 secs.			
<b>Contractor:</b> PROPETRO			<b>Rig/Platform Name/Num:</b> PROPETRO				
<b>Job Purpose:</b> Cement Surface Casing							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Surface Casing			
<b>Sales Person:</b> METLI, MARSHALL			<b>Srvc Supervisor:</b> JAMISON, PRICE			<b>MBU ID Emp #:</b> 229155	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
JAMISON, PRICE W	8	229155	JENSEN, SHANE Lynn	8	441759	VANALSTYNE, TROY L	8	420256

**Equipment**

HES Unit #	Distance-1 way						
10297346	120 mile	11071559	120 mile	11560046	120 mile	11562538	120 mile
11583934	120 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/9/11	4	0	11/10/11	4	3			

**TOTAL** *Total is the sum of each column separately*

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					09 - Nov - 2011	16:00	MST
<b>Form Type</b>			<b>BHST</b>	<b>On Location</b>	09 - Nov - 2011	20:00	MST
<b>Job depth MD</b>	823. ft		<b>Job Depth TVD</b>	840. ft	<b>Job Started</b>	10 - Nov - 2011	02:31
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	. ft	<b>Job Completed</b>	10 - Nov - 2011	03:18
<b>Perforation Depth (MD)</b>	<b>From</b>		<b>To</b>		<b>Departed Loc</b>	10 - Nov - 2011	04:00

**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				12.25				.	840.	.	840.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	823.	.	823.

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HW, 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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

1	WATER SPACER		20.00	bbl	8.4	.0	.0	6.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.75	6.0	13.75
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.88	6.0	6.88
	6.88 Gal	FRESH WATER							
4	DISPLACEMENT		60.2	bbl	8.4			6.0	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	60.2	Shut In: Instant		Lost Returns	NO	Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	60.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	160
<b>Rates</b>									
Circulating	NONE	Mixing	6	Displacement	6	Avg. Job			6
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	ID	ID
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

*The Road to Excellence Starts with Safety*

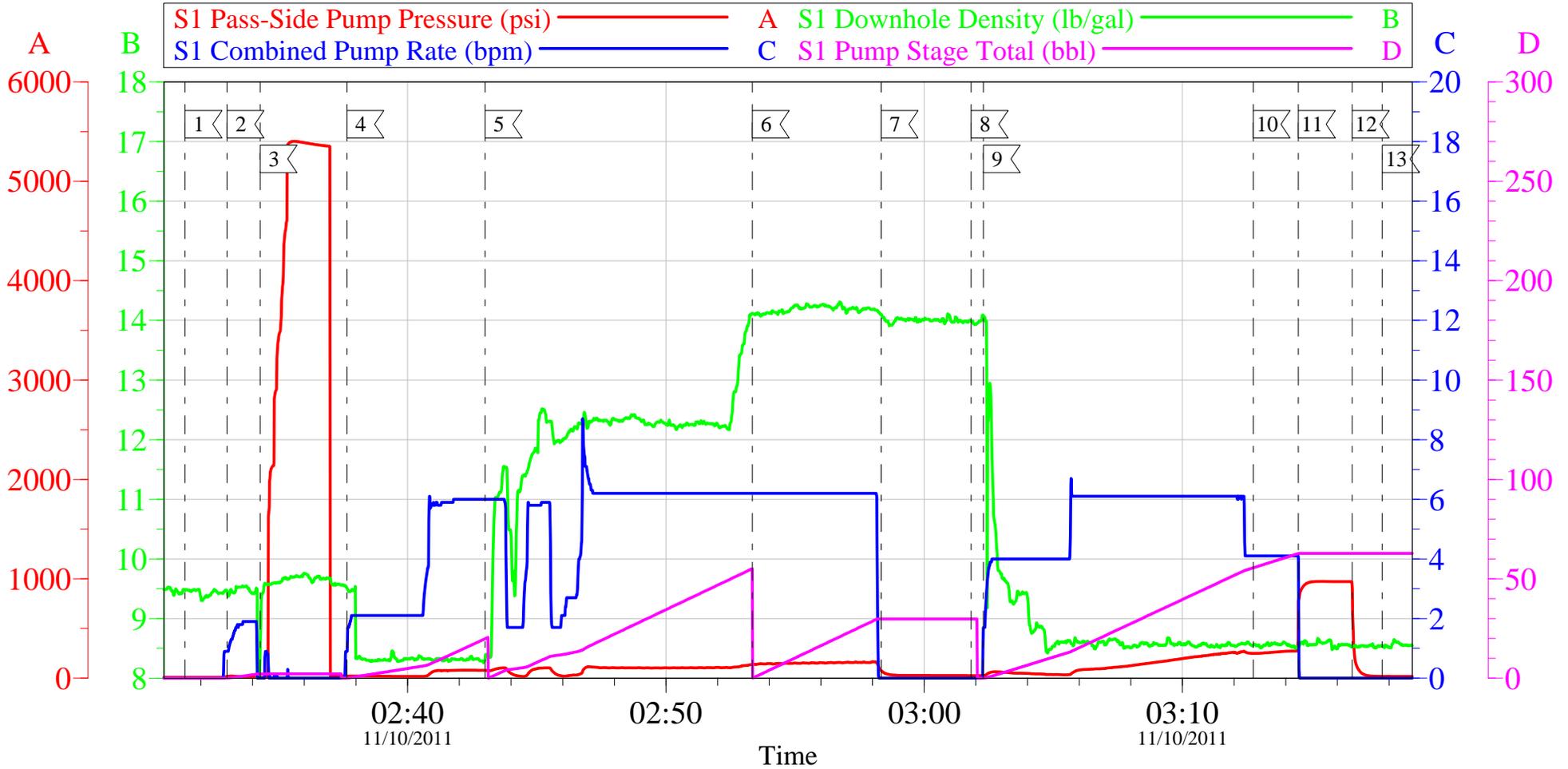
<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2889252	<b>Quote #:</b>	<b>Sales Order #:</b> 9043550
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> Lauer, Casey	
<b>Well Name:</b> CBS		<b>Well #:</b> 42B-21-692	<b>API/UWI #:</b> 05-045-20128
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.515 deg. OR N 39 deg. 30 min. 52.452 secs.		<b>Long:</b> W 107.671 deg. OR W -108 deg. 19 min. 43.439 secs.	
<b>Contractor:</b> PROPETRO		<b>Rig/Platform Name/Num:</b> PROPETRO	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> METLI, MARSHALL		<b>Srv Supervisor:</b> JAMISON, PRICE	<b>MBU ID Emp #:</b> 229155

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/09/2011 15:00							TD 840 HOLE SIZE 12.25 TP 823 CASING 9.625 36 # J-55 SHOE JOINT 44.0 NO MUD AIR MIST DRILLED
Depart Yard Safety Meeting	11/09/2011 16:50							
Crew Leave Yard	11/09/2011 18:00							
Arrive At Loc	11/09/2011 20:00							
Assessment Of Location Safety Meeting	11/09/2011 20:20							
Pre-Rig Up Safety Meeting	11/10/2011 01:30							
Pre-Job Safety Meeting	11/10/2011 02:10							
Start Job	11/10/2011 02:31							
Prime Pumps	11/10/2011 02:32		2	2			13.0	FRESH WATER
Test Lines	11/10/2011 02:34						5000. 0	
Pump Spacer 1	11/10/2011 02:37		6	20			80.0	FRESH WATER
Pump Lead Cement	11/10/2011 02:43		6	50.9			106.0	MIXED @ 12.3 PPG YIELD 2.38 WAT/REQ 13.77 120 SKS
Pump Tail Cement	11/10/2011 02:53		6	30.6			162.0	MIXED @ 14.2 PPG YIELD 1.43 WAT/REQ 6.85 120 SKS
Shutdown	11/10/2011 02:58							
Drop Plug	11/10/2011 03:00							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	11/10/2011 03:02		6					FRESH WATER
Slow Rate	11/10/2011 03:12		4	50			270.0	
Bump Plug	11/10/2011 03:14		4	60.2			279.0	PRESSURE UP TO 974 PSI
Check Floats	11/10/2011 03:16							FLOATS HELD
End Job	11/10/2011 03:18							CEMENT BACK TO SURFACE 25 BBLS
Post-Job Safety Meeting (Pre Rig-Down)	11/10/2011 03:20							GOT RETURNS ON DISPLACEMENT
Depart Location Safety Meeting	11/10/2011 03:55							CASING WAS NOT MOVED THROUGHOUT JOB
Crew Leave Location	11/10/2011 04:00							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

# BILL BARRETT- CBS 42B-21-692

SURFACE

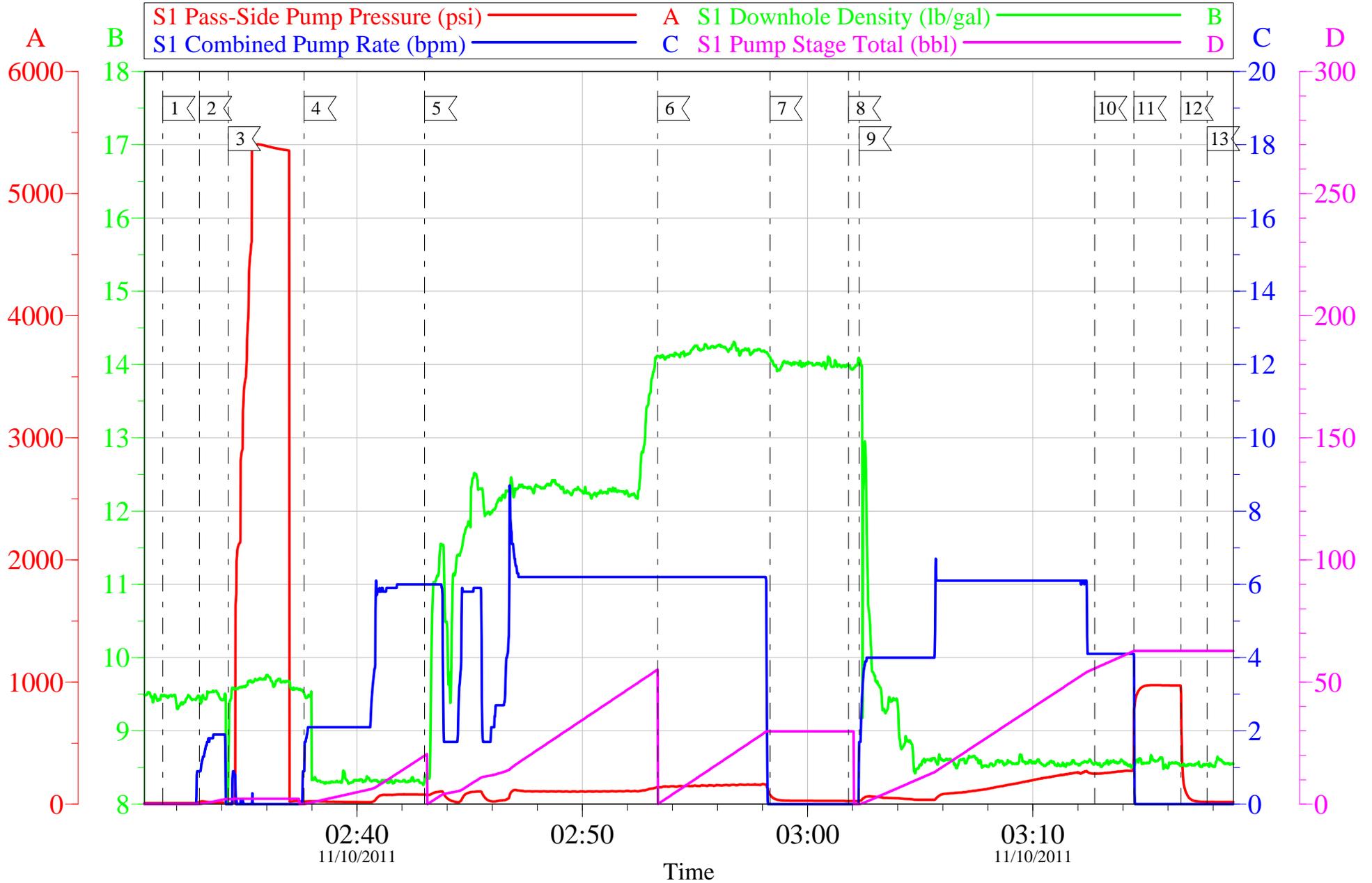


Local Event Log								
1	START JOB	02:31:23	2	PRIME LINES	02:33:00	3	TEST LINES	02:34:17
4	WATER SPACER	02:37:39	5	LEAD CEMENT	02:43:00	6	TAIL CEMENT	02:53:21
7	SHUT DOWN	02:58:20	8	DROP PLUG	03:01:49	9	START DISPLACEMENT	03:02:17
10	SLOW RATE	03:12:44	11	BUMP PLUG	03:14:29	12	CHECK FLOATS	03:16:34
13	END JOB	03:17:45						

Customer:	BILL BARRETT	Job Date:	10-Nov-2011	Sales Order #:	9043550
Well Description:	CBS 42B-21-692	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	CASEY LAUER	Cement Supervisor:	BILL JAMISON	Elite #X:	5/TROY VANALSTYNE

# BILL BARRETT- CBS 42B-21-692

SURFACE



Customer: BILL BARRETT	Job Date: 10-Nov-2011	Sales Order #: 9043550
Well Description: CBS 42B-21-692	Job Type: SURFACE	ADC Used: YES
Company Rep: CASEY LAUER	Cement Supervisor: BILL JAMISON	Elite #X: 5/TROY VANALSTYNE

OptiCem v6.4.9  
12-Nov-11 10:33

# HALLIBURTON

## Water Analysis Report

Company: BILL BARRETT

Date: 11/9/2011

Submitted by: BILL JAMISON

Date Rec.: 11/9/2011

Attention: JON TROUT

S.O.# 9043550

Lease CBS

Job Type: 9 5/8" SURFACE

Well # 42B-21-692

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.8</b>
Potassium (K)	<i>5000</i>	<b>450</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>-200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>40</b> Deg
Total Dissolved Solids		<b>530</b> Mg / L

Respectfully: BILL JAMISON

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

<b>Sales Order #:</b> 9043550	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/10/2011
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> CASEY LAUER		<b>API / UWI: (leave blank if unknown)</b> 05-045-20128
<b>Well Name:</b> CBS		<b>Well Number:</b> 42B-21-692
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> 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	11/10/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	PRICE JAMISON (HAL9235)
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	NONE

<b>CUSTOMER SIGNATURE</b>
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<b>Well Name:</b> CBS		<b>Well Number:</b> 42B-21-692
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	11/10/2011
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	3
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 9043550	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/10/2011
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<b>Well Name:</b> CBS		<b>Well Number:</b> 42B-21-692
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0