

HALLIBURTON

Cementing Job Log

BILL BARRETT CORPORATION

**CBS 31C-21-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
07-Nov-2011

Job Site Documents

Sold To # : 343492

Ship To # :2889244

Quote # :

Sales Order # : 90435

SUMMIT Version: 7.2.27

Monday, November 7, 2011

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2889244	Quote #:	Sales Order #: 9043538
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lauer, Casey	
Well Name: CBS	Well #: 31C-21-692	API/UWI #: 05-045-20119	
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.571 secs.		Long: W 107.671 deg. OR W -108 deg. 19 min. 42.845 secs.	
Contractor: PROPETRO		Rig/Platform Name/Num: PROPETRO	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srvc Supervisor: JAMISON, PRICE	MBU ID Emp #: 229155

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEUSSEN, EDWARD Eric	6	485182	JAMISON, PRICE W	6	229155	JENSEN, SHANE Lynn	6	441759
VANALSTYNE, TROY L	6	420256						

Equipment

HES Unit #	Distance-1 way						
10867322	60 mile	10897891	60 mile	11560046	60 mile	11562538	60 mile
11583934	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/6/11	3	0	11/7/11	3	2			

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	06 - Nov - 2011	14:30 MST
Form Type	BHST			On Location	06 - Nov - 2011	21:00 MST
Job depth MD	816.9 ft	Job Depth TVD	840. ft	Job Started	07 - Nov - 2011	00:56 MST
Water Depth		Wk Ht Above Floor	. ft	Job Completed	07 - Nov - 2011	01:45 MST
Perforation Depth (MD) From		To		Departed Loc	07 - Nov - 2011	03:00 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				12.25				.	840.	.	840.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	816.9	.	816.9

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			
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 ³ /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	VersaCem	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	6.0	13.77
	13.77 Gal	FRESH WATER							
3	SwiftCem	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	6.0	6.85
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT		59.8	bbl	8.4			6.0	
Calculated Values		Pressures			Volumes				
Displacement	59.8	Shut In: Instant		Lost Returns	NO	Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	59.6	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	160
Rates									
Circulating	NONE	Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	43.3 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID	ID	ID
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

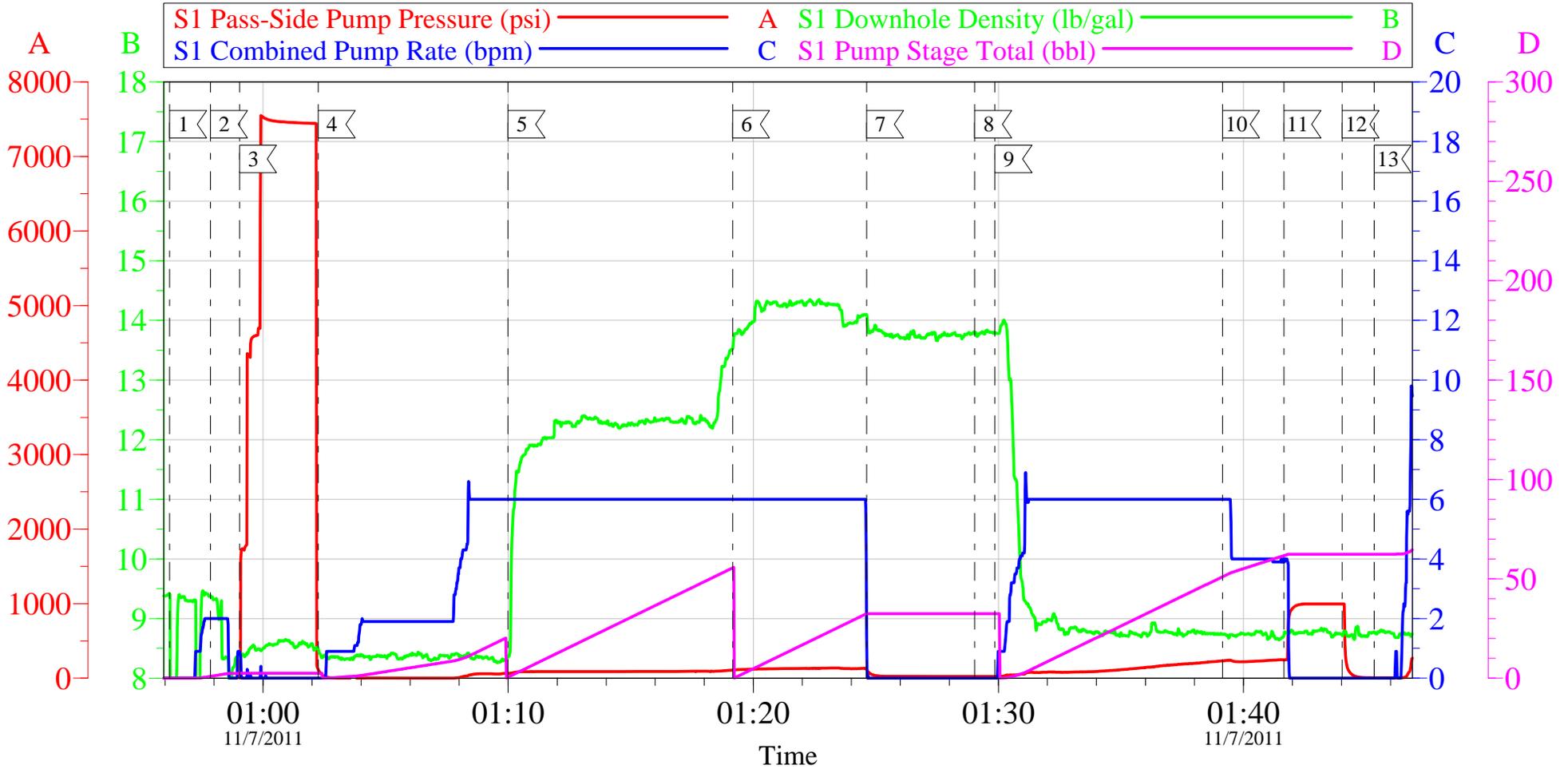
Sold To #: 343492	Ship To #: 2889244	Quote #:	Sales Order #: 9043538
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lauer, Casey	
Well Name: CBS		Well #: 31C-21-692	API/UWI #: 05-045-20119
Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.571 secs.		Long: W 107.671 deg. OR W -108 deg. 19 min. 42.845 secs.	
Contractor: PROPETRO		Rig/Platform Name/Num: PROPETRO	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srv Supervisor: JAMISON, PRICE	MBU ID Emp #: 229155

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/06/2011 14:30		2					TD 840 HOLE SIZE 12.25 TP 816.94 CASING 9.625 36 # J-55 SHOE JOINT 43.34 NO MUD AIR MIST DRILLED
Depart Yard Safety Meeting	11/06/2011 15:20							
Crew Leave Yard	11/06/2011 15:30							
Arrive At Loc	11/06/2011 17:30							
Assessment Of Location Safety Meeting	11/06/2011 17:40							
Pre-Rig Up Safety Meeting	11/06/2011 22:30							
Pre-Job Safety Meeting	11/07/2011 00:30							
Start Job	11/07/2011 00:56							
Prime Pumps	11/07/2011 00:57		2	2			2.0	FRESH WATER
Test Lines	11/07/2011 00:59						5000. 0	
Pump Spacer 1	11/07/2011 01:02		6	20			61.0	FRESH WATER
Pump Lead Cement	11/07/2011 01:10		6	50.9			92.0	MIXED @ 12.3 PPG YIELD 2.38 WAT/REQ 13.77 120 SKS
Pump Tail Cement	11/07/2011 01:19		6	30.6			137.0	MIXED @ 14.2 PPG YIELD 1.43 WAT/REQ 6.85 120 SKS
Shutdown	11/07/2011 01:24							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Plug	11/07/2011 01:28							
Pump Displacement	11/07/2011 01:29		6					FRESH WATER
Slow Rate	11/07/2011 01:39		4	50			240.0	
Bump Plug	11/07/2011 01:41		4	59.8			254.0	PRESSURE UP TO 996 PSI
Check Floats	11/07/2011 01:44							FLOATS HELD
End Job	11/07/2011 01:45							CEMENT BACK TO SURFACE 25 BBLS
Post-Job Safety Meeting (Pre Rig-Down)	11/07/2011 01:50							GOT RETURNS ON DISPLACEMENT
Depart Location Safety Meeting	11/07/2011 02:50							CASING WAS NOT MOVED THROUGHOUT JOB
Crew Leave Location	11/07/2011 03:00							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

BILL BARRETT- CBS 31C-21-692

SURFACE



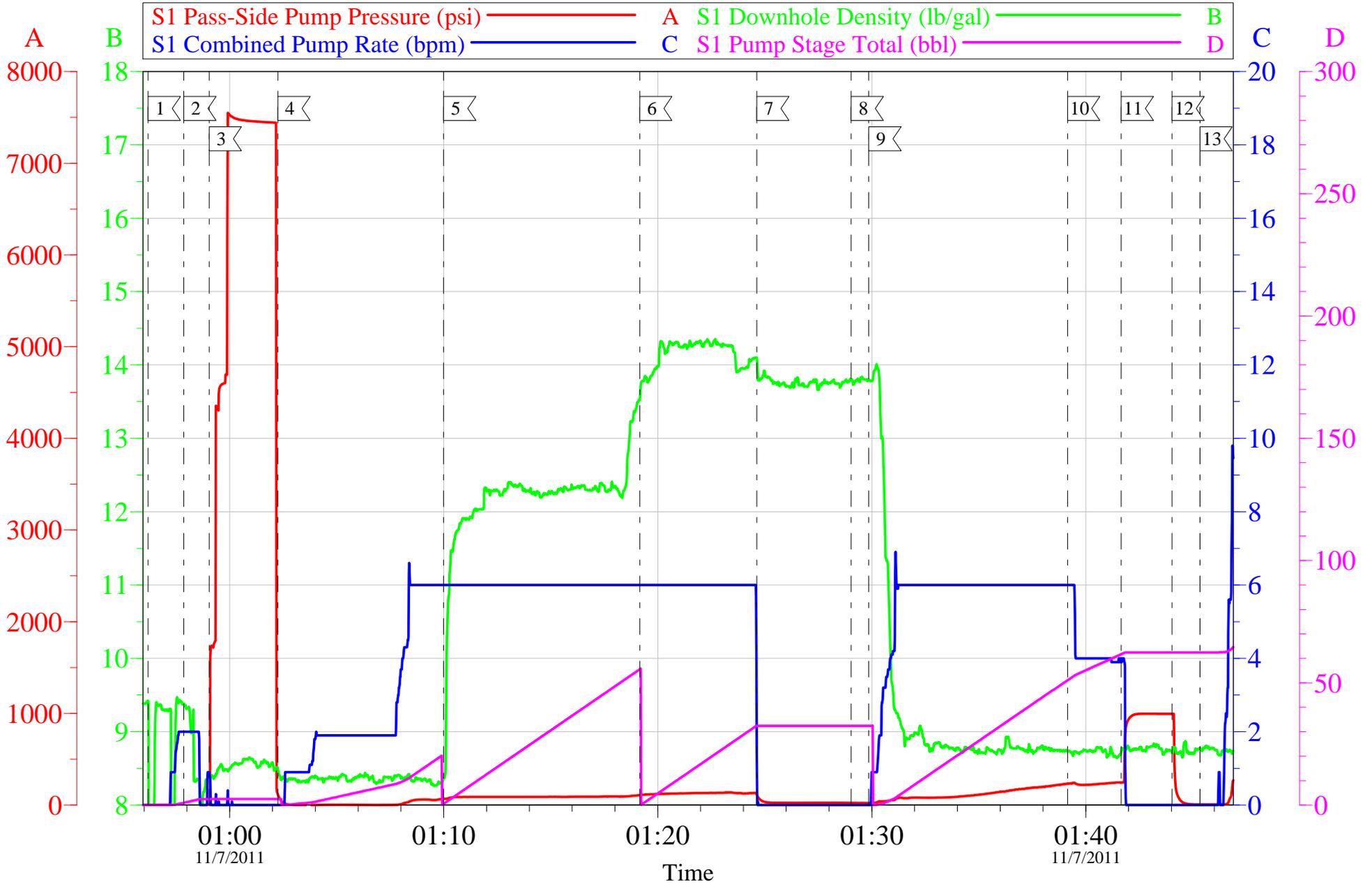
Local Event Log								
1	START JOB	00:56:11	2	PRIME LINES	00:57:51	3	TEST LINES	00:59:02
4	START WATER SPACER	01:02:15	5	LEAD CEMENT	01:10:00	6	TAIL CEMENT	01:19:09
7	SHUT DOWN	01:24:38	8	DROP PLUG	01:29:02	9	DISPLACEMENT	01:29:52
10	SLOW RATE	01:39:09	11	BUMP PLUG	01:41:39	12	CHECK FLOATS	01:44:01
13	END JOB	01:45:20						

Customer:	BILL BARRETT	Job Date:	07-Nov-2011	Sales Order #:	9043538
Well Description:	CBS 31C-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 09:31

BILL BARRETT- CBS 31C-21-692

SURFACE



Customer: BILL BARRETT	Job Date: 07-Nov-2011	Sales Order #: 9043538
Well Description: CBS 31C-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 09:30

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT

Date: 11/6/2011

Submitted by: BILL JAMISON

Date Rec.: 11/6/2011

Attention: JON TROUT

S.O.# 9043538

Lease CBS

Job Type: 9 5/8" SURFACE

Well # 31C-21-692

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.8
Potassium (K)	<i>5000</i>	450 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>	40 Deg
Total Dissolved Solids		530 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

Sales Order #: 9043538	Line Item: 10	Survey Conducted Date: 11/7/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20119
Well Name: CBS		Well Number: 31C-21-692
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	11/7/2011
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

CUSTOMER SIGNATURE

Sales Order #: 9043538	Line Item: 10	Survey Conducted Date: 11/7/2011
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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20119
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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	11/7/2011
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)	2
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
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

Sales Order #: 9043538	Line Item: 10	Survey Conducted Date: 11/7/2011
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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20119
Well Name: CBS		Well Number: 31C-21-692
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