
BILL BARRETT CORPORATION E-BILL

**EPERLY 14D-23-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
23-Nov-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492		Ship To #: 2890420		Quote #:		Sales Order #: 9057396	
Customer: BILL BARRETT CORPORATION E-BILL				Customer Rep: Lauer, Casey			
Well Name: EPPERLY			Well #: 14D-23-692			API/UWI #: 05-045-20979	
Field: MAMM CREEK		City (SAP): SILT		County/Parish: Garfield		State: Colorado	
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.368 secs.				Long: W 107.641 deg. OR W -108 deg. 21 min. 33.707 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: MUHLESTEIN, RYAN			MBU ID Emp #: 453609	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHASTAIN, DERICK Allan	8	455848	LESTER, LEVI William	8	474117	MUHLESTEIN, RYAN Herrick	8	453609

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	120 mile	10784080	120 mile	10804579	120 mile	10951250	120 mile
10973571	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/23/11	8	3						

TOTAL Total is the sum of each column separately

Job

JOB						JOB TIMES				
Formation Name							Date	Time	Time Zone	
Formation Depth (MD)	Top			Bottom		Called Out	23 - Nov - 2011	02:00	MST	
Form Type		BHST				On Location	23 - Nov - 2011	05:00	MST	
Job depth MD		765. ft		Job Depth TVD		765. ft	Job Started	23 - Nov - 2011	10:40	MST
Water Depth				Wk Ht Above Floor		4. ft	Job Completed	23 - Nov - 2011	11:51	MST
Perforation Depth (MD)	From			To			Departed Loc	23 - Nov - 2011	1300	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 SECTION				12.14				.	765.		
SURFACE CASING	Unknown		9.625	8.921	36.		K-55	.	744.1		

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		
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		

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	8.34	.0	.0	2.5	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	5.0	13.77
	0.25 lbm	POLY-E-FLAKE (101216940)							
	13.77 Gal	FRESH WATER							
3	Tail Cement	SWIFTCES (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	5.0	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT		54.00	bbl	8.33			5.0	
Calculated Values		Pressures		Volumes					
Displacement	54.2	Shut In: Instant		Lost Returns		Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	54.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	155.6
Rates									
Circulating		Mixing	5	Displacement	5	Avg. Job			5
Cement Left In Pipe	Amount	43.5 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					

The Road to Excellence Starts with Safety

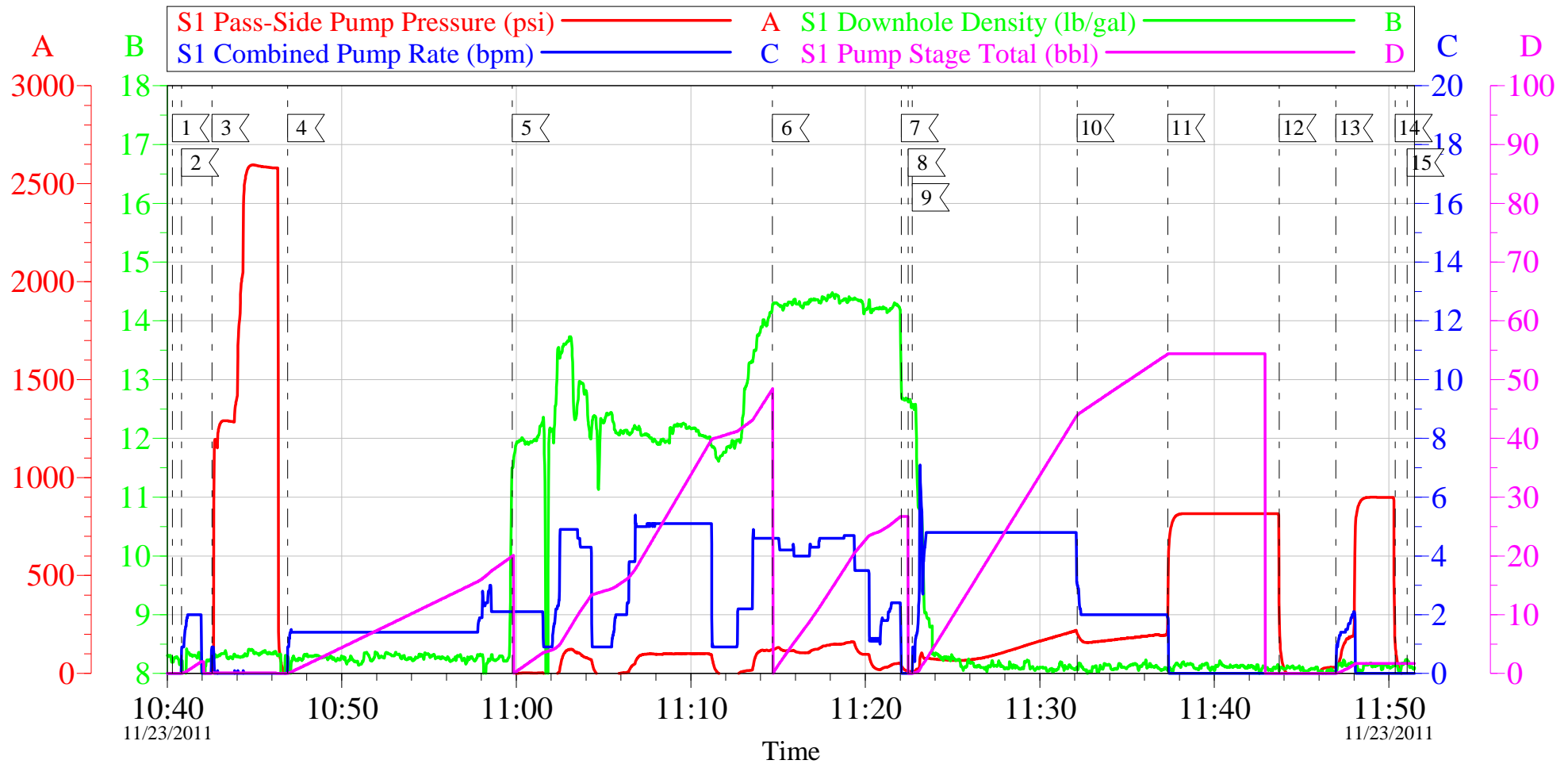
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Legal Description:			
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Contractor: PROPETRO		Rig/Platform Name/Num: PROPETRO	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srvc Supervisor: MUHLESTEIN, RYAN	MBU ID Emp #: 453609

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	11/23/2011 02:00							PUMP ON LOCATION FROM PREVIOUS JOB
Assessment Of Location Safety Meeting	11/23/2011 10:00							WITH ALL HES PERSONNEL
Pre-Rig Up Safety Meeting	11/23/2011 10:15							WITH ALL HES PERSONNEL
Rig-Up Equipment	11/23/2011 10:30							1 HT 400 PUMP, 1 660 BULK TRAILER, 1 F-450 PICK-UP, 1 PLUG CONTAINER
Pre-Job Safety Meeting	11/23/2011 10:35							WITH ALL PERSONNEL ON LOCATION
Start Job	11/23/2011 10:40							TD 765', TP 744.1', SJ 43.5', FC 700.6, 9 5/8" 36# CASING, 12 1/4" AIR DRILLED HOLE
Pump Water	11/23/2011 10:41		2	2			6.0	FRESH H2O TO PRIME LINES
Test Lines	11/23/2011 10:42							HELD 2632 PSI FOR 2 MIN, NO LEAKS
Pump Spacer 1	11/23/2011 10:46		2.5	20			8.0	FRESH H2O SPACER
Pump Lead Cement	11/23/2011 10:59		5	50.9			95.0	120 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK, VERIFIED VIA MUD SCALES WET AND DRY SAMPLES SUBMITTED
Pump Tail Cement	11/23/2011 11:14		5	30.6			135.0	120 SKS, 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK, VERIFIED VIA MUD SCALES WET AND DRY SAMPLES SUBMITTED
Shutdown	11/23/2011 11:22							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	11/23/2011 11:22							LAUNCH PLUG, VERIFY PLUG LEFT CONTAINER
Pump Displacement	11/23/2011 11:22		5	54.2			219.0	DISPLACE FRESH WATER, CAUGHT RETURNS RIGHT AWAY, CEMENT TO SURFACE AT 34 BBLS AWAY, 20 BBLS CEMENT TO SURFACE, NO SUGAR USED.
Slow Rate	11/23/2011 11:32		2	44			198.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/23/2011 11:37		2	54.2			830.0	PLUG BUMPED PLUG AT 195 PSI
Check Floats	11/23/2011 11:43							FLOAT DID NOT HOLD 1.5 BBL BACK TO TRUCK
Bump Plug	11/23/2011 11:46						900.0	RE BUMP PLUG
Check Floats	11/23/2011 11:50							FLOAT HELD .5 BBL BACK TO TRUCK
End Job	11/23/2011 11:51							
Pre-Rig Down Safety Meeting	11/23/2011 12:00							WITH ALL HES PERSONNEL
Rig-Down Equipment	11/23/2011 12:30							
Pre-Convoy Safety Meeting	11/23/2011 12:45							WITH ALL HES PERSONNEL
Depart Location for Service Center or Other Site	11/23/2011 13:00							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. RYAN MUHLESTEIN AND CREW

BILL BARRETT- EPPERLY 14D-23-692

9 5/8" SURFACE CASING



Customer: BILL BARRETT
Well Description: EPPERLY 14D-23-692
Company Rep: CASEY LAUER

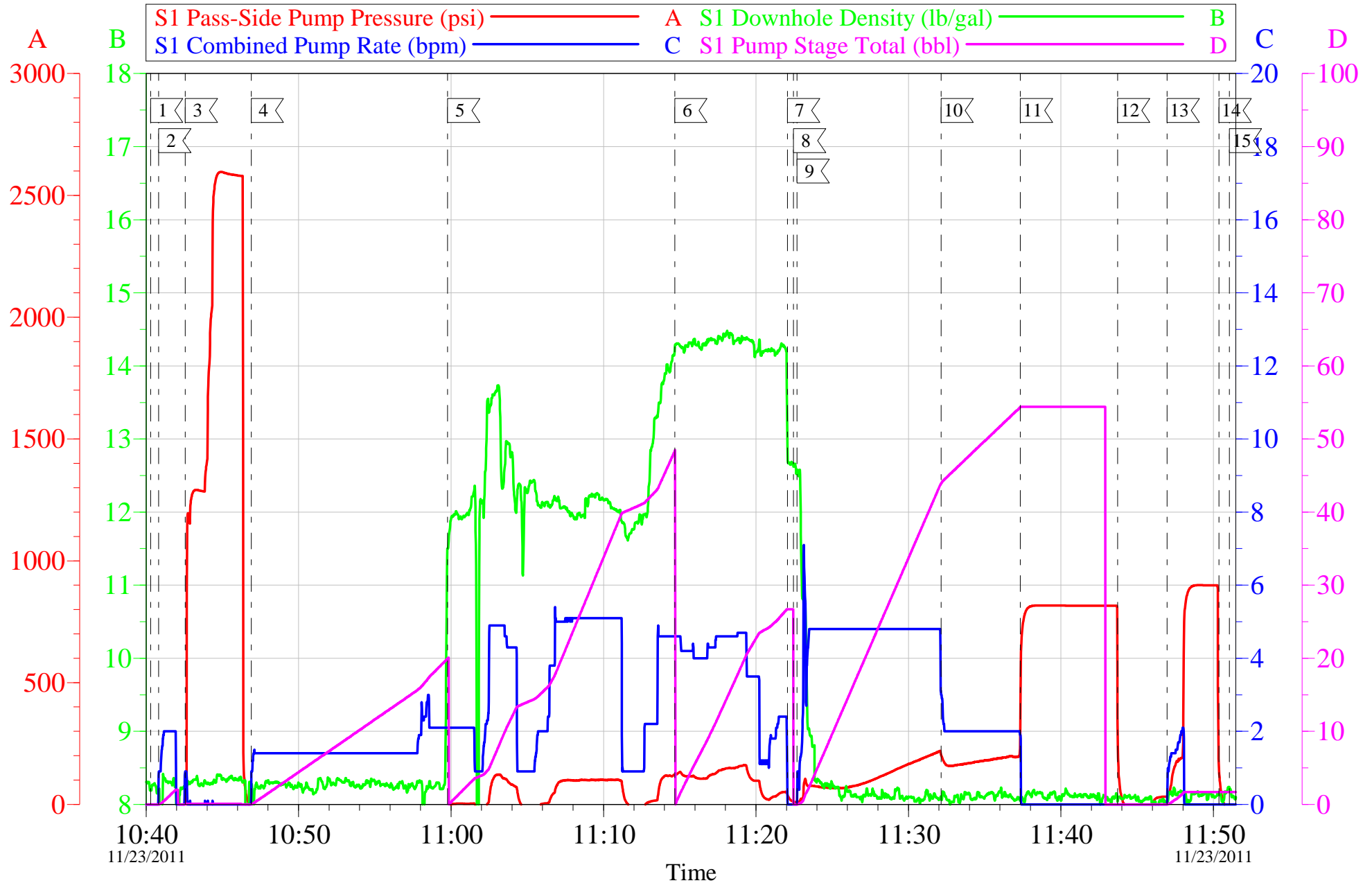
Job Date: 23-Nov-2011
Job Type: SURFACE
Cement Supervisor: RYAN MUHLESTEIN

Sales Order #: 9057396
ADC Used: YES
Elite # 2

OptiCem v6.4.10
23-Nov-11 12:06

BILL BARRETT- EPPERLY 14D-23-692

9 5/8" SURFACE CASING



Customer:	BILL BARRETT	Job Date:	23-Nov-2011	Sales Order #:	9057396
Well Description:	EPPERLY 14D-23-692	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	CASEY LAUER	Cement Supervisor:	RYAN MUHLESTEIN	Elite #	2

OptiCem v6.4.10
23-Nov-11 12:29

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT

Submitted by: RYAN MUHLESTEIN

Attention: J. Trout

Lease EPPERLY

Well # 14D-23-692

Date: 11/23/2011

Date Rec.: 11/23/2011

S.O.# 9057396

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 Mg / L
Calcium (Ca)	<i>500</i>	425 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	250 Mg / L
Sulfates (SO ₄)	<i>1500</i>	250 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		290 Mg / L

Respectfully: RYAN MUHLESTEIN

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

Sales Order #: 9057396	Line Item: 10	Survey Conducted Date: 11/23/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20979
Well Name: EPPERLY		Well Number: 14D-23-692
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	11/23/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYAN MUHLESTEIN (HB21105)
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 #: 9057396	Line Item: 10	Survey Conducted Date: 11/23/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20979
Well Name: EPPERLY		Well Number: 14D-23-692
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	11/23/2011

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	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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Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20979
Well Name: EPPERLY		Well Number: 14D-23-692
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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