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**BILL BARRETT CORPORATION E-BILL**

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**EPPERLY 13C-23-692  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
20-Nov-2011

**Job Site Documents**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2890423	<b>Quote #:</b>	<b>Sales Order #:</b> 9057862
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> Lauer, Casey	
<b>Well Name:</b> EPPERLY		<b>Well #:</b> 13C-23-692	<b>API/UWI #:</b>
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.512 deg. OR N 39 deg. 30 min. 42.606 secs.		<b>Long:</b> W 107.641 deg. OR W -108 deg. 21 min. 33.7 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> ANGLESTEIN, TROY	<b>MBU ID Emp #:</b> 436099

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	5	436099	KEANE, JOHN Donovon	5	486519	WALPOLE, DARREN Livingston	5	485294

**Equipment**

HES Unit #	Distance-1 way						
10297346	120 mile	10551730C	120 mile	10951245	120 mile	10973571	120 mile
11071559	120 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/20/2011	5	1						

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

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Form Type</b>		BHST	<b>On Location</b>	20 - Nov - 2011	09:00	MST
<b>Job depth MD</b>	810. ft	<b>Job Depth TVD</b>	<b>Job Started</b>	20 - Nov - 2011	12:56	MST
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	<b>Job Completed</b>	20 - Nov - 2011	13:41	MST
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>	<b>Departed Loc</b>			

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

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	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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk				
Stage/Plug #: 1													

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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	8.34	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	6	13.77
	0.25 lbm	POLY-E-FLAKE (101216940)							
	13.77 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	6	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT		57.00	bbl	8.33			6	
Calculated Values		Pressures		Volumes					
Displacement	56.8	Shut In: Instant		Lost Returns	0	Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	56.8	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	159
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	44.47 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					

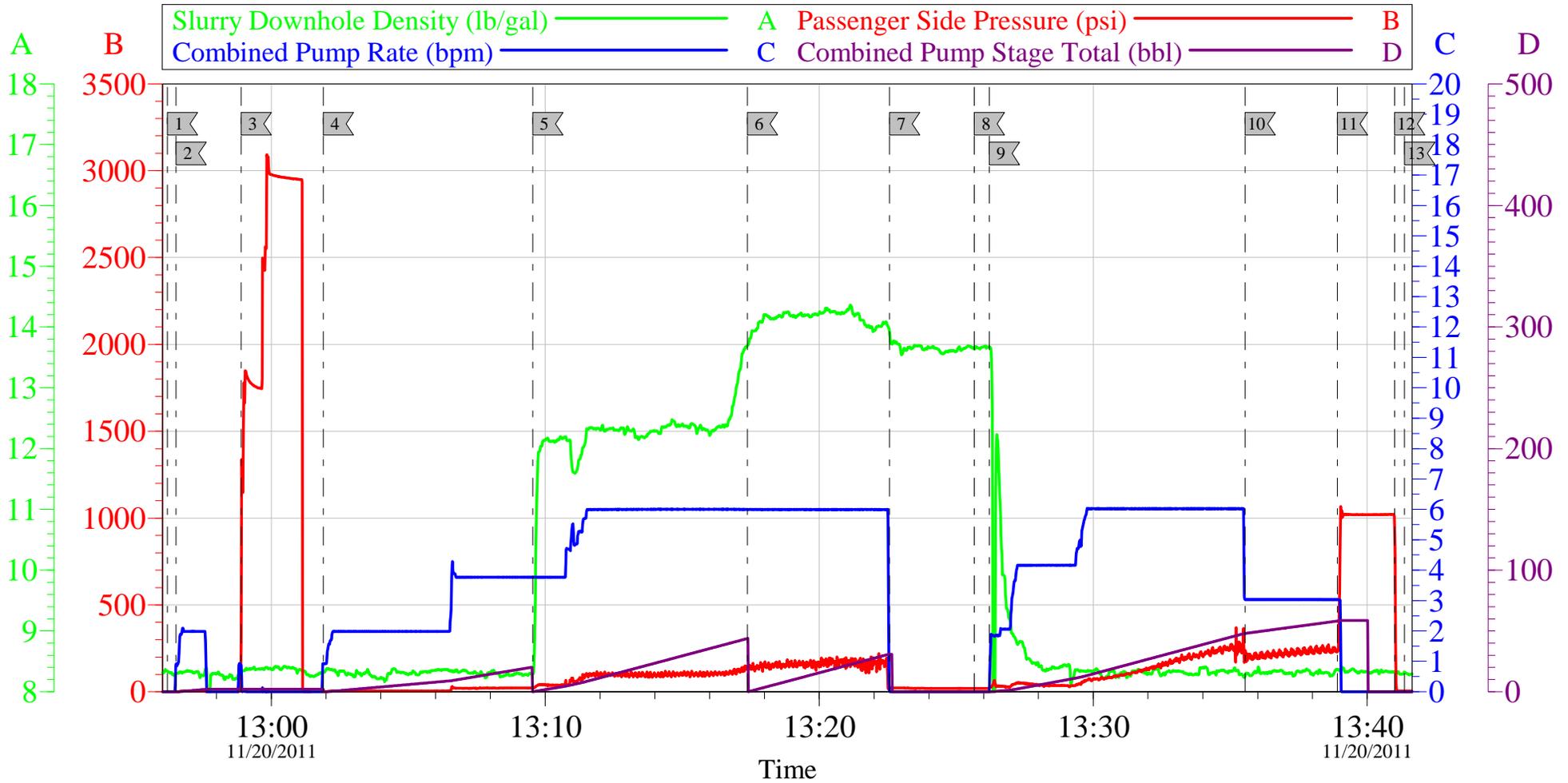
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<b>Legal Description:</b>			
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<b>Contractor:</b> PROPETRO		<b>Rig/Platform Name/Num:</b> PROPETRO	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> METLI, MARSHALL		<b>Srvc Supervisor:</b> ANGLESTEIN, TROY	<b>MBU ID Emp #:</b> 436099

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	11/20/2011 09:00							HES PUMP ALREADY ON LOCATION, BULK TRUCK ARRIVED AT 09:00
Assessment Of Location Safety Meeting	11/20/2011 09:30							ALL HES EMPLOYEES
Rig-Up Equipment	11/20/2011 12:00							1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 9.625 PLUG CONTAINER, 1 F 450 P/U
Pre-Job Safety Meeting	11/20/2011 12:40							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	11/20/2011 12:56							9.625 CASING SET AT 779.68', FC 735.21', TD: 810, OPEN HOLE 12.25", AIR DRILLED, 400 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.
Pump Water	11/20/2011 12:56		2	2			6.0	FILL LINES
Pressure Test	11/20/2011 12:58		0.5	0.5			2996.0	NO LEAKS
Pump Spacer 1	11/20/2011 13:01		4	20			35.0	FRESH WATER
Pump Lead Cement	11/20/2011 13:09		6	50.9			130.0	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

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	11/20/2011 13:17		6	30.6			145.0	120 SKS SWIFTCEM 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	11/20/2011 13:22							FOR NO MORE THEN 5 MINUTES,
Drop Plug	11/20/2011 13:25							PLUG LAUNCHED
Pump Displacement	11/20/2011 13:26		6	56.8			224.0	FRESHWATER
Cement Returns to Surface	11/20/2011 13:30		6	36			157.0	20 BBLS OF CEMENT TO SURFACE.
Slow Rate	11/20/2011 13:35		3	46			198.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/20/2011 13:38		3	56.8			270.0	PLUG LANDED AT 1025 HELD FOR TWO MINUTES
Check Floats	11/20/2011 13:41							FLOATS HOLDING, NO ANNULAR FLOW NOTED
End Job	11/20/2011 13:41							THANK YOU FOR USING HES FROM TROY ANGLESTEIN AND CREW.
Post-Job Safety Meeting (Pre Rig-Down)	11/20/2011 13:45							ALL HES EMPLOYEES
Rig-Down Equipment	11/20/2011 14:00							SAFELY

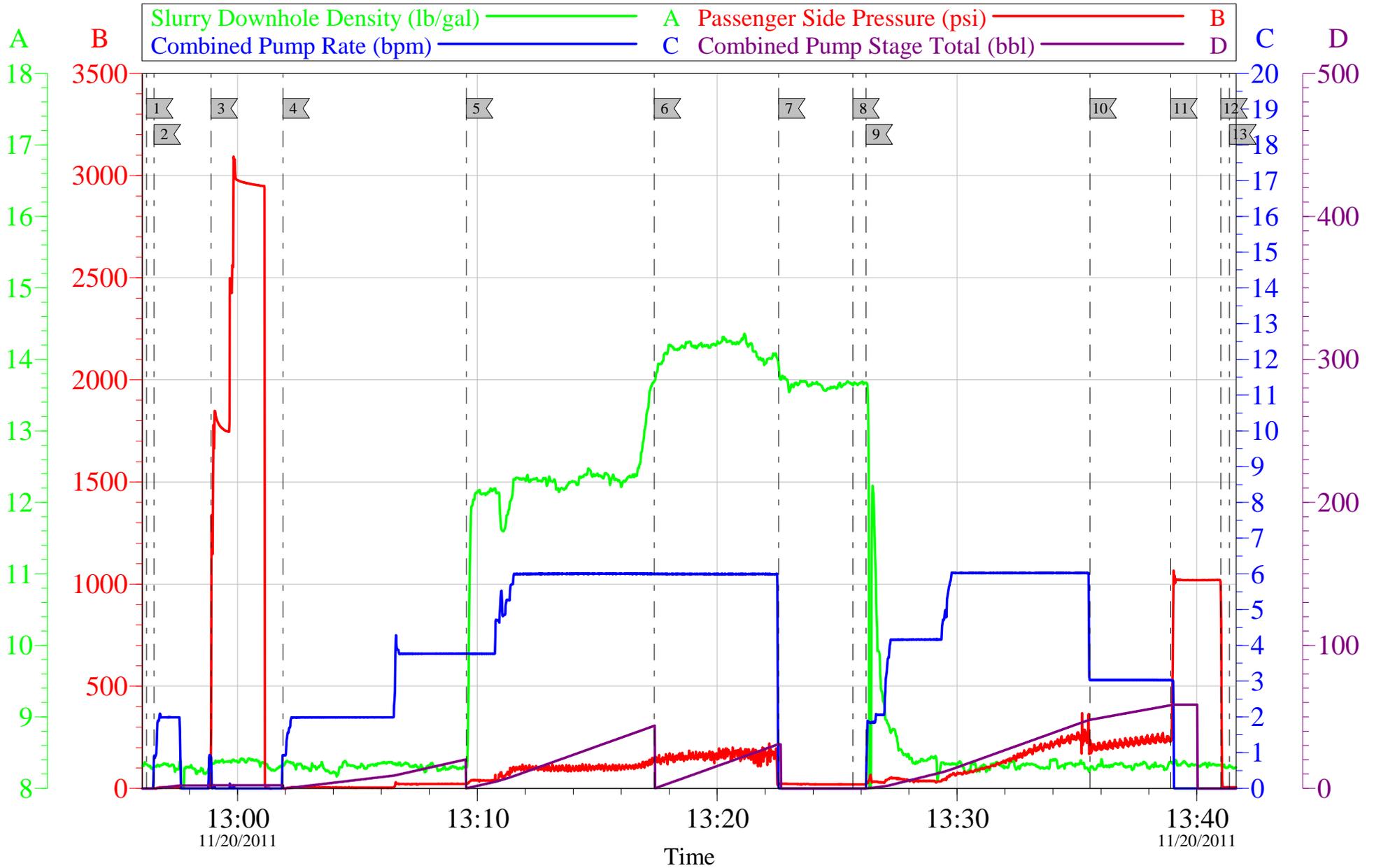
# BILL BARRETT EPPERLY 13C-23-692 SURFACE



Local Event Log			
1 START JOB	12:56:13	2 FILL LINES	12:56:32
3 TEST LINES	12:58:54	4 PUMP H2O SPACER	13:01:54
5 PUMP LEAD CEMENT	13:09:33	6 PUMP TAIL CEMENT	13:17:23
7 SHUTDOWN	13:22:34	8 DROP PLUG	13:25:40
9 PUMP DISPLACEMENT	13:26:12	10 SLOW RATE	13:35:32
11 BUMP PLUG	13:38:55	12 CHECK FLOATS	13:41:00
13 END JOB	13:41:22		

Customer: BILL BARRETT	Job Date: 20-Nov-2011	Sales Order #: 9057862
Well Description: EPPERLY 13C-23-692	Job Type: SURFACE	ADC Used: YES
Customer Rep: CASEY LAUER	Cement Supervisor: TROY ANGLESTEIN	Elite 2: JOHN KEANE

# BILL BARRETT EPPERLY 13C-23-692 SURFACE



Customer: BILL BARRETT	Job Date: 20-Nov-2011	Sales Order #: 9057862
Well Description: EPPERLY 13C-23-692	Job Type: SURFACE	ADC Used: YES
Customer Rep: CASEY LAUER	Cement Supervisor: TROY ANGLESTEIN	Elite 2: JOHN KEANE

# HALLIBURTON

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## Water Analysis Report

Company: BILL BARRETT

Date: 11/20/2011

Submitted by: TROY ANGLESTEIN

Date Rec.: \_\_\_\_\_

Attention: LAB

S.O.# 9057862

Lease EPPERLY

Job Type: SURFACE

Well # 13C-23-692

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6</b>
Potassium (K)	<i>5000</i>	<b>220</b> Mg / L
Hrdness	<i>500</i>	<b>0</b> Mg / L
Iron (FE2)	<i>300</i>	<b>200</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>60</b> Deg
Total Dissolved Solids		<b>380</b> Mg / L

Respectfully: TROY ANGLESTEIN

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 it

<b>Sales Order #:</b> 9057862	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/20/2011
<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> AFEYKHW2TZJIW5QNAAA
<b>Well Name:</b> EPPERLY		<b>Well Number:</b> 13C-23-692
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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	11/20/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	TROY ANGLESTEIN (HX45574)
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	

<b>CUSTOMER SIGNATURE</b>
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<b>Well Name:</b> EPPERLY		<b>Well Number:</b> 13C-23-692
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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	11/20/2011
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>	2
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>	4
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

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<b>Well Name:</b> EPPERLY		<b>Well Number:</b> 13C-23-692
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<b>H2S Present:</b>	<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	97
<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	97
<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