
BILL BARRETT CORPORATION E-BILL

**EPPELY 24D-23-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
28-Nov-2011

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2890426	Quote #:	Sales Order #: 9058446
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: EPPERLY	Well #: 24D-23-692	API/UWI #: 05-045-20946	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.372 secs.	Long: W 107.641 deg. OR W -108 deg. 21 min. 33.833 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: CHASTAIN, DERICK	MBU ID Emp #: 455848	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHASTAIN, DERICK Allan	12	455848	LESTER, LEVI William	12	474117	MAGERS, MICHAEL Gerard	6	339439

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10533645	120 mile	10857016	120 mile	10872429	120 mile	10951248	120 mile
11139328	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/28/2011	12	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			
Form Type	BHST				On Location			
Job depth MD	755. ft		Job Depth TVD	755. ft	Job Started	28 - Nov - 2011	21:19	MST
Water Depth			Wk Ht Above Floor	1. ft	Job Completed	28 - Nov - 2011	22:17	MST
Perforation Depth (MD)	From		To		Departed Loc			

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				12.375				.	755.	.	755.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	737.6	.	737.6

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 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	5	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	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT		54.00	bbl	8.33			6	
Calculated Values		Pressures		Volumes					
Displacement	53.6	Shut In: Instant		Lost Returns	0	Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	29	Actual Displacement	53.6	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	155
Rates									
Circulating		Mixing	5	Displacement	6	Avg. Job		5	
Cement Left In Pipe	Amount	44.7 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

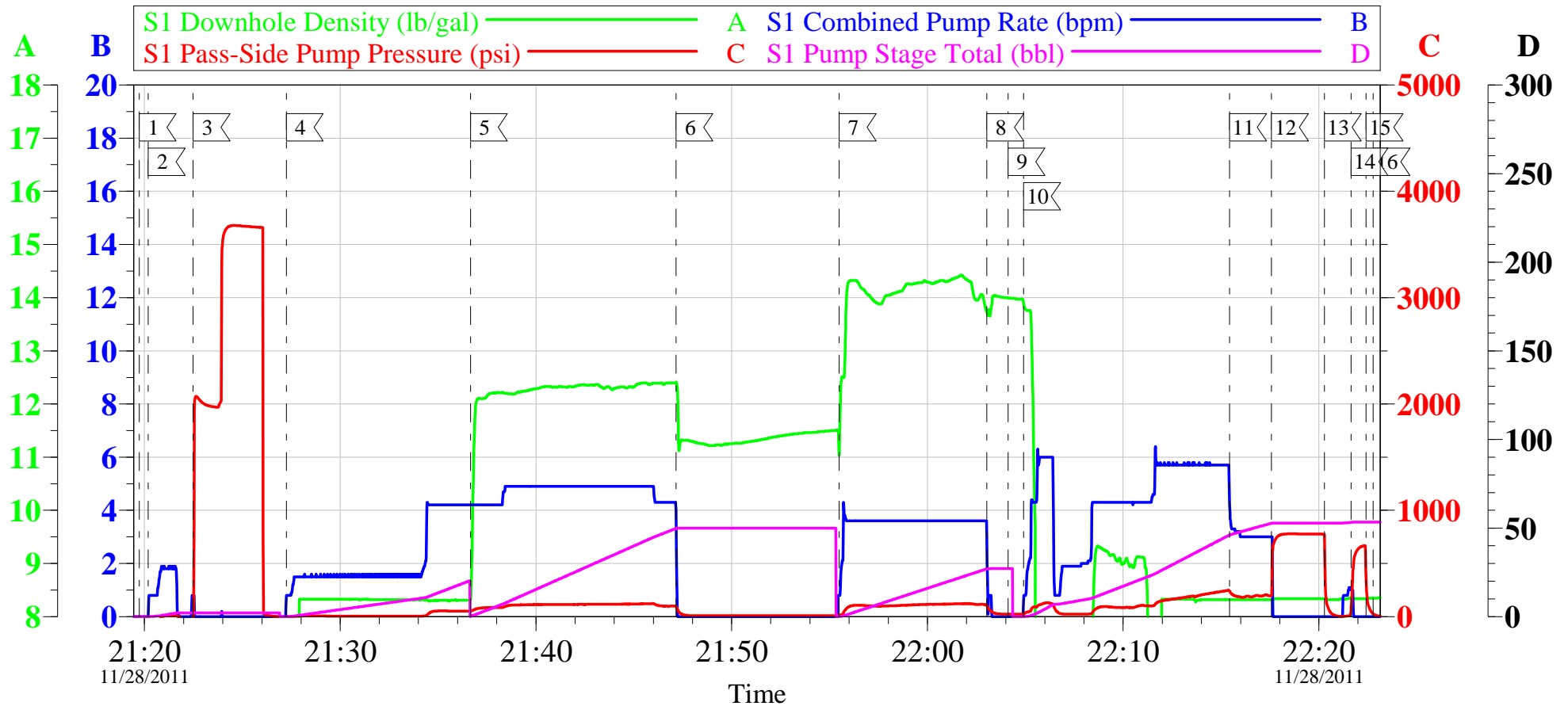
Sold To #: 343492	Ship To #: 2890426	Quote #:	Sales Order #: 9058446
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lauer, Casey	
Well Name: EPPERLY	Well #: 24D-23-692	API/UWI #: 05-045-20946	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.372 secs.		Long: W 107.641 deg. OR W -108 deg. 21 min. 33.833 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		Srvc Supervisor: CHASTAIN, DERICK	MBU ID Emp #: 455848

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	11/28/2011 11:00							CREW ON LOCATION FROM PREVIOUS JOB
Pre-Rig Up Safety Meeting	11/28/2011 19:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	11/28/2011 20:00							1 HT 400 PUMP, 1 660 BULK TRAILER, 1 F-450 PICK-UP, 1 PLUG CONTAINER
Pre-Job Safety Meeting	11/28/2011 21:00							WITH ALL PERSONNEL ON LOCATION
Start Job	11/28/2011 21:19							TD 755', TP 737.55', SJ 44.7', FC 692.85', 9 5/8" 36# CASING, 12 3/8" AIR DRILLED HOLE
Pump Water	11/28/2011 21:20		2	2			8.0	FILL LINES
Test Lines	11/28/2011 21:22							STAGED TEST AT 1975 PSI THEN TESTED TO 3675 PSI. HELD PRESSURE FOR 2 MIN, NO LEAKS
Pump Spacer 1	11/28/2011 21:27		4	20			55.0	PUMP FRESH WATER AT 2 BPM UNTIL TUB WEIGHED UP, THEN SPED RATE TO 4 BPM
Pump Lead Cement	11/28/2011 21:36		5	50.9			126.0	120 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Shutdown	11/28/2011 21:47						.0	SHUTDOWN TO BUILD TUB.
Pump Tail Cement	11/28/2011 21:55		5	30.6			112.0	120 SKS, 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK. H2O RETURNS AT 18 AWAY ON TAIL

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	11/28/2011 22:03						.0	
Drop Top Plug	11/28/2011 22:04							LAUNCH PLUG, VERIFY PLUG LEFT CONTAINER
Pump Displacement	11/28/2011 22:04		6	53.6			270.0	FRESH WATER. CEMENT RETURNS AT 24 AWAY ON DISPLACEMENT
Slow Rate	11/28/2011 22:15		3	43			195.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/28/2011 22:17		3	53.6			780.0	PLUG BUMPED PLUG AT 195 PSI, PRESSURED UP TO 780 PSI
Check Floats	11/28/2011 22:20						.0	FLOATS DID NOT HOLD.
Bump Plug	11/28/2011 22:21		2				650.0	PRESSURED UP TO 650 PSI
Check Floats	11/28/2011 22:22						.0	FLOAT HELD 1/2 BBL BACK TO TRUCK
End Job	11/28/2011 22:22							29 BBLS CEMENT TO SURFACE. NO DERRICK CHARGE, NO SUGAR USED, NO ADD HOURS CHARGED.
Pre-Rig Down Safety Meeting	11/28/2011 22:40							WITH ALL HES PERSONNEL
Rig-Down Equipment	11/28/2011 23:00							BLOW DOWN PUMP AND GET READY FOR NEXT WELL.
Comment	11/28/2011 23:00							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. DERICK CHASTAIN AND CREW

BILL BARRETT - EPPERLY 24D-23-692

SURFACE CASING

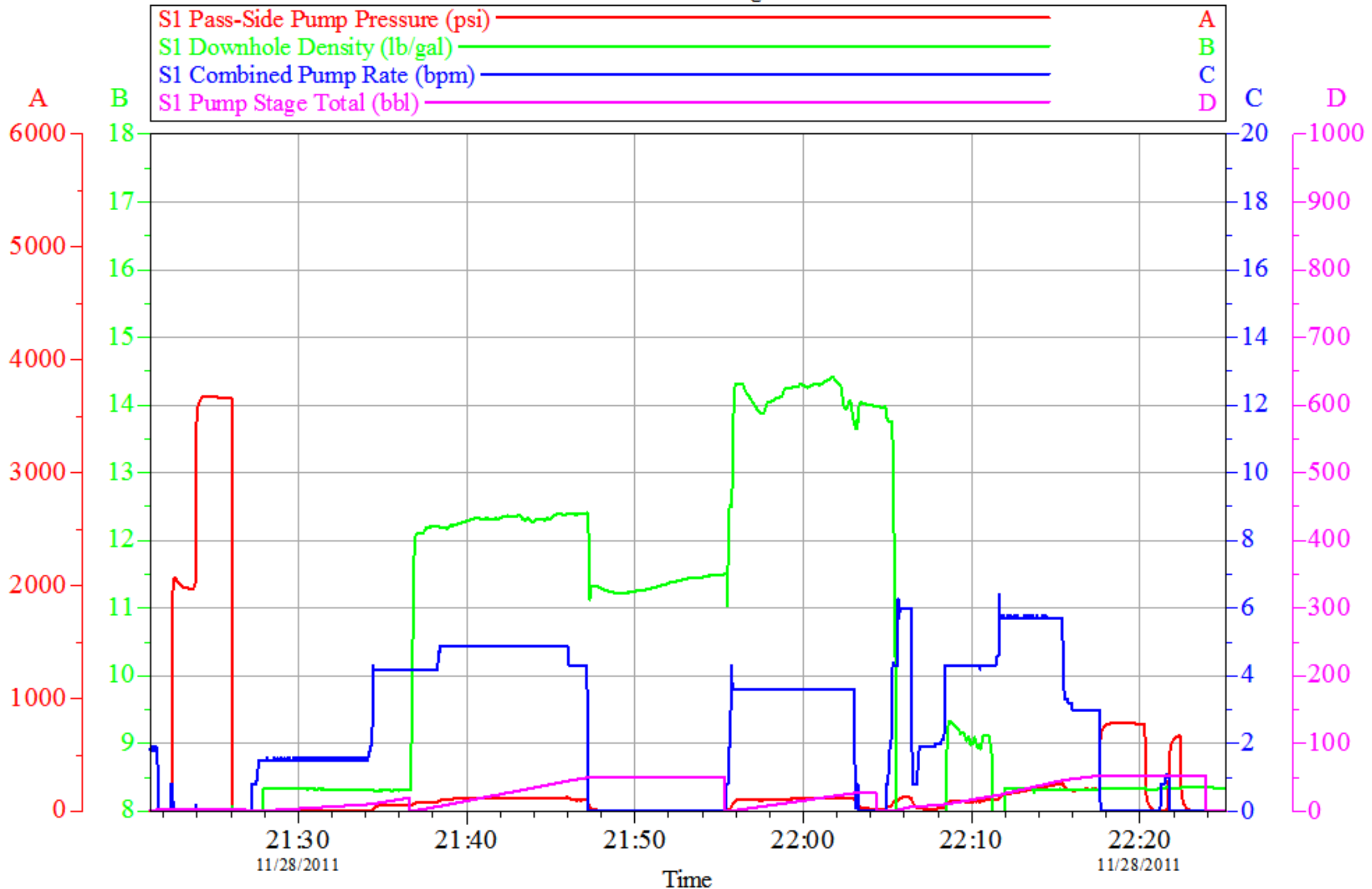


1 START JOB	21:19:44	2 FILL LINES	21:20:12	3 TEST LINES	21:22:29
4 PUMP SPACER	21:27:15	5 PUMP LEAD CEMENT	21:36:39	6 SHUTDOWN	21:47:10
7 PUMP TAIL CEMENT	21:55:30	8 SHUTDOWN	22:03:02	9 DROP PLUG	22:04:07
10 PUMP DISPLACEMENT	22:04:55	11 SLOW RATE	22:15:26	12 BUMP PLUG	22:17:35
13 CHECK FLOATS	22:20:17	14 REBUMP PLUG	22:21:39	15 CHECK FLOATS	22:22:25
16 END JOB	22:22:46				

Customer: BILL BARRETT	Job Date: 28-Nov-2011	Sales Order #: 9058446
Well Description: EPPERLY 24D-23-692	Job Type: SURFACE	ADC Used: YES
Customer Rep: CASEY LAUER	Service Supervisor: DERICK CHASTAIN	Pump #/Operator: 7 / MIKE MAGERS

Bill Barrett Epperly 24D-23-692

Surface Casing



Customer: Bill Barrett
Well Description: Epperly 24D-23-692
Company Rep: Casey Lauer

Job Date: 28-Nov-2011
Job Type: Surface
Cement Supervisor: Derick Chastain

Sales Order #: 9058446
ADC Used: yes
Elite #X: 7, Magers

OptiCem v6.4.6
20-Dec-11 15:11

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT
Submitted by: DERICK CHASTAIN
Attention: J. Trout
Lease: EPPERLY
Well #: 24D-23-692

Date: 11/28/2011
Date Rec.: 11/28/2011
S.O.#: 9058446
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6</i>
Potassium (K)	<i>5000</i>	<i>2000</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>1000</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i>500</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>45</i> Deg
Total Dissolved Solids		<i>200</i> Mg / L

Respectfully: DERICK CHASTAIN

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 c

Sales Order #: 9058446	Line Item: 10	Survey Conducted Date: 11/28/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20946
Well Name: EPPERLY		Well Number: 24D-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	11/28/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	DERICK CHASTAIN (HB23225)
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 #: 9058446	Line Item: 10	Survey Conducted Date: 11/28/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) 05-045-20946
Well Name: EPPERLY		Well Number: 24D-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	11/28/2011

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.	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	4
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) 05-045-20946
Well Name: EPPERLY		Well Number: 24D-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	96
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