
BILL BARRETT CORPORATION E-BILL

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

Cement Surface Casing
22-Nov-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2890430	Quote #:	Sales Order #: 9064340
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: EPPERLY	Well #: 23D-23-692	API/UWI #: 05-045-20949	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.689 secs.	Long: W 107.641 deg. OR W -108 deg. 21 min. 33.826 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	Srv Supervisor: ANGLESTEIN, TROY	MBU ID Emp #: 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	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10001431	120 mile	10551730C	120 mile	10724643	120 mile	10951245	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
11/22/2011	5	1						

TOTAL Total is the sum of each column separately

Job

Formation Name					Job Times					
Formation Depth (MD)		Top	Bottom		Called Out	Date	Time	Time Zone		
Form Type		BHST			On Location	22 - Nov - 2011	00:00	MST		
Job depth MD		800. ft		Job Depth TVD		800. ft	Job Started	22 - Nov - 2011	03:00	MST
Water Depth				Wk Ht Above Floor		4. ft	Job Completed	22 - Nov - 2011	03:53	MST
Perforation Depth (MD)		From	To			Departed Loc	22 - Nov - 2011	05:00	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 SECTION				12.25				.	800.		
SURFACE CASING	Unknown		9.625	8.921	36.		H-40	.	773.2		

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	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	SWIFTCES (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		56.00	bbl	8.33			6	
Calculated Values		Pressures		Volumes					
Displacement	56.3	Shut In: Instant		Lost Returns	0	Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	56.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	158
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	44.37 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

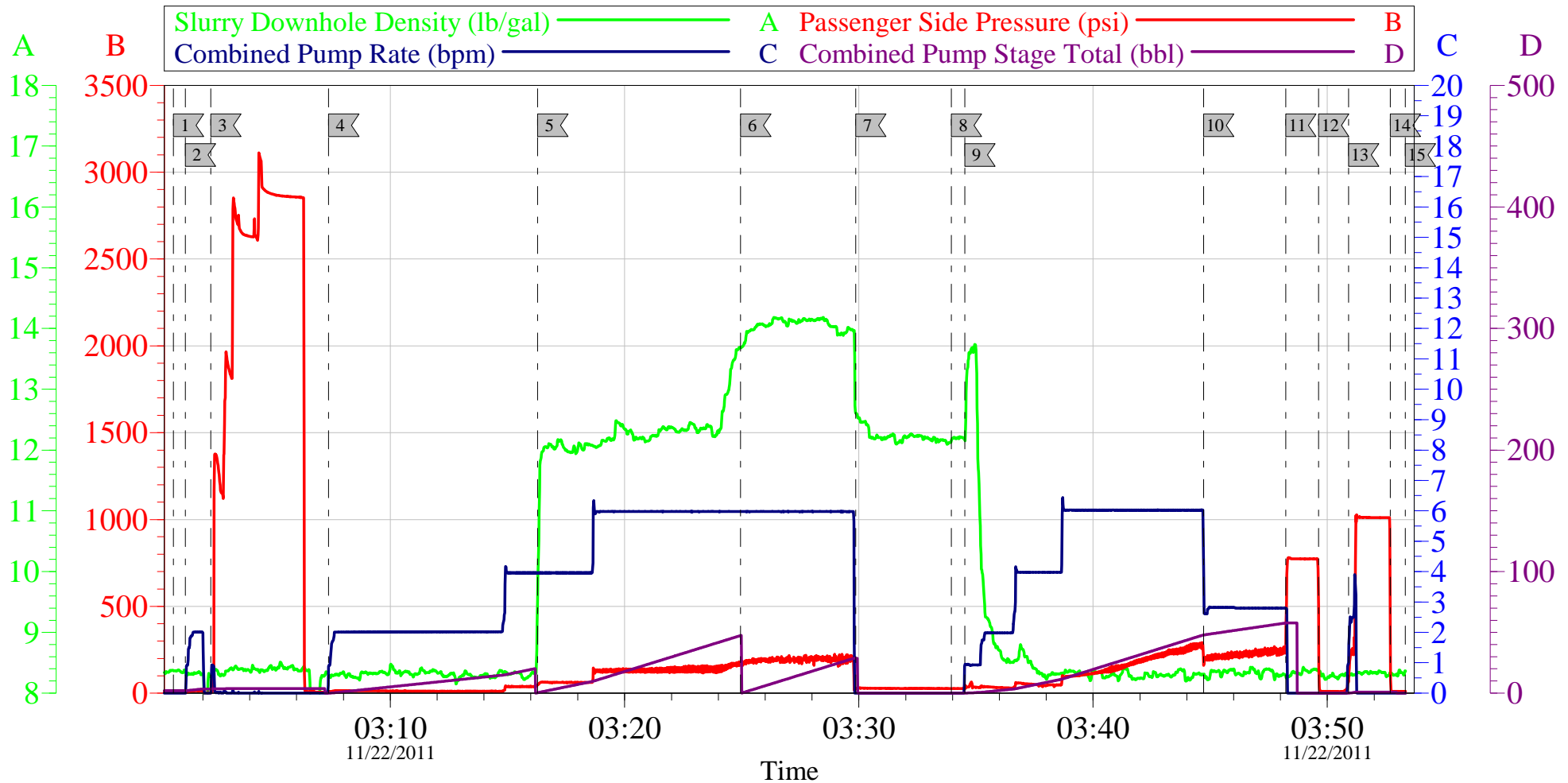
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Well Name: EPPERLY	Well #: 23D-23-692	API/UWI #: 05-045-20949	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.689 secs.		Long: W 107.641 deg. OR W -108 deg. 21 min. 33.826 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: ANGLESTEIN, TROY	MBU ID Emp #: 436099

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	11/22/2011 00:00							HES PUMP ALREADY ON LOCATION, BULK TRUCK ARRIVED AT 24:00
Assessment Of Location Safety Meeting	11/22/2011 00:15							ALL HES EMPLOYEES
Rig-Up Equipment	11/22/2011 02:30							1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 9.625 PLUG CONTAINER, 1 F 450 P/U
Pre-Job Safety Meeting	11/22/2011 02:50							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	11/22/2011 03:00							9.625 CASING SET AT 773.18', FC 728.8', TD: 800, OPEN HOLE 12.25", AIR DRILLED, 400 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.
Pump Water	11/22/2011 03:01		2	2			10.0	FILL LINES
Pressure Test	11/22/2011 03:02		0.5	0.5		2860.0		NO LEAKS
Pump Spacer 1	11/22/2011 03:07		4	20			35.0	FRESH WATER
Pump Lead Cement	11/22/2011 03:16		6	50.9			143.0	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	11/22/2011 03:24		6	30.6			192.0	120 SKS VERSACEM 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	11/22/2011 03:29							FOR NO MORE THEN 5 MINUTES,
Drop Plug	11/22/2011 03:33							PLUG LAUNCHED
Pump Displacement	11/22/2011 03:34		6	56.3			237.0	FRESHWATER, GOT RETURNS 10 BBLS INTO DISPLACEMENT
Cement Returns to Surface	11/22/2011 03:40		6	36			178.0	20 BBLS OF CEMENT TO SURFACE.
Slow Rate	11/22/2011 03:44		2	46			200.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/22/2011 03:48		2	56.3			245.0	PLUG LANDED AT 720 HELD FOR TWO MINUTES
Check Floats	11/22/2011 03:49							FLOATS NOT HOLDING
Bump Plug	11/22/2011 03:50		3	1			220.0	PLUG LANDED AT 1001 HELD FOR TWO MINUTES
Check Floats	11/22/2011 03:52							FLOATS HELD
End Job	11/22/2011 03:53							THANK YOU FOR USING HES FROM TROY ANGLESTEIN AND CREW.
Post-Job Safety Meeting (Pre Rig-Down)	11/22/2011 04:00							ALL HES EMPLOYEES
Rig-Down Equipment	11/22/2011 04:30							SAFELY
Crew Leave Location	11/22/2011 05:00							HES TO LEAVE PUMP ON LOCATION.

BILL BARRETT

EPPEPLY 23D-23-692 SURFACE



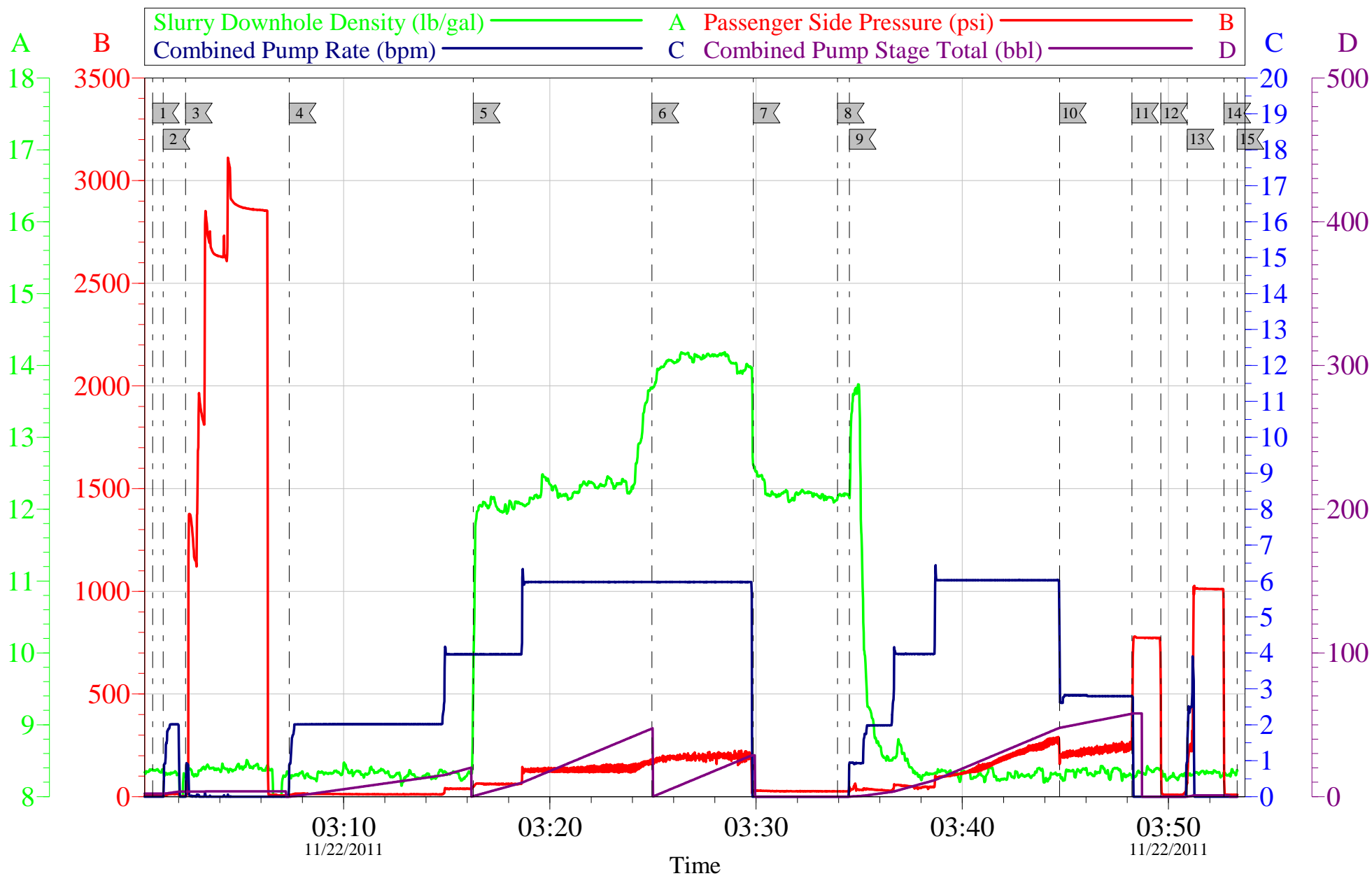
Local Event Log					
1	START JOB	03:00:44	2	FILL LINES	03:01:15
3	TEST LINES	03:02:20	4	PUMP H2O SPACER	03:07:22
5	PUMP LEAD CEMENT	03:16:18	6	PUMP TAIL CEMENT	03:24:57
7	SHUTDOWN	03:29:52	8	DROP PLUG	03:33:57
9	PUMP DISPLACEMENT	03:34:31	10	SLOW RATE	03:44:43
11	BUMP PLUG	03:48:13	12	CHECK FLOATS	03:49:38
13	BUMP PLUG	03:50:54	14	CHECK FLOATS	03:52:41
15	END JOB	03:53:19			

Customer:	BILL BARRETT	Job Date:	22-Nov-2011	Sales Order #:	9064340
Well Description:	EPPEPLY 23D-23-692	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	CASEY LAUER	Cement Supervisor:	TROY ANGLESTEIN	Elite 2:	JOHN KEANE

OptiCem v6.4.10
22-Nov-11 04:13

BILL BARRETT

EPPERLY 23D-23-692 SURFACE



Customer:	BILL BARRETT	Job Date:	22-Nov-2011	Sales Order #:	9064340
Well Description:	EPPERLY 23D-23-692	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	CASEY LAUER	Cement Supervisor:	TROY ANGLESTEIN	Elite 2:	JOHN KEANE

Sales Order #: 9064340	Line Item: 10	Survey Conducted Date: 11/22/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20949
Well Name: EPPERLY		Well Number: 23D-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	11/22/2011
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)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 9064340	Line Item: 10	Survey Conducted Date: 11/22/2011
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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20949
Well Name: EPPERLY		Well Number: 23D-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	11/22/2011
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)	2
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 #: 9064340	Line Item: 10	Survey Conducted Date: 11/22/2011
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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20949
Well Name: EPPERLY		Well Number: 23D-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	97
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	97
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