
BILL BARRETT CORPORATION E-BILL

**EPERLY 13B-23-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
21-Nov-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2890422	Quote #:	Sales Order #: 9057803
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: EPPERLY	Well #: 13B-23-692	API/UWI #:	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.527 secs.	Long: W 107.641 deg. OR W -108 deg. 21 min. 33.703 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: 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	9	436099	KEANE, JOHN Donovan	9	486519	WALPOLE, DARREN Livingston	9	485294

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	120 mile	10784064	120 mile	10951245	120 mile	11006314	120 mile
11360871	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	1	0	11/21/2011	8	1			

TOTAL Total is the sum of each column separately

Job

Formation Name	Job	Job Times	Date	Time	Time Zone
Formation Depth (MD)	Top Bottom	Called Out			
Form Type	BHST	On Location	20 - Nov - 2011	23:00	MST
Job depth MD	800. ft	Job Started	21 - Nov - 2011	06:33	MST
Water Depth	Wk Ht Above Floor	Job Completed	21 - Nov - 2011	07:22	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
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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 Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
Fluid #	Stage Type							

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		58.00	bbl	8.33			6	
Calculated Values		Pressures		Volumes					
Displacement	57.5	Shut In: Instant		Lost Returns	0	Cement Slurry	81.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	57.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	159
Rates									
Circulating		Mixing		Displacement		Avg. Job			
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

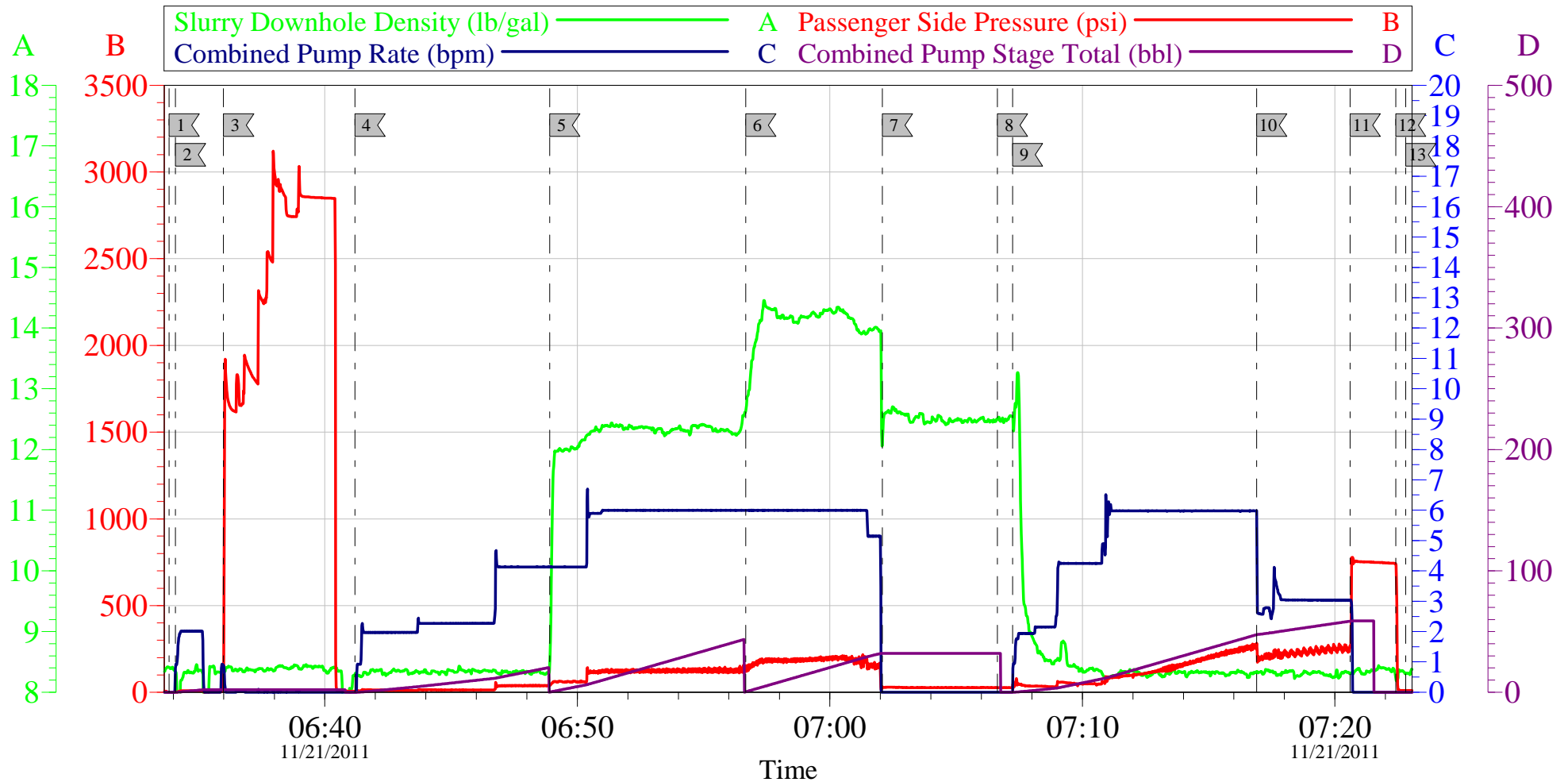
Sold To #: 343492	Ship To #: 2890422	Quote #:	Sales Order #: 9057803
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Well Name: EPPERLY	Well #: 13B-23-692	API/UWI #:	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.512 deg. OR N 39 deg. 30 min. 42.527 secs.		Long: W 107.641 deg. OR W -108 deg. 21 min. 33.703 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	11/20/2011 23:00							HES PUMP ALREADY ON LOCATION, BULK TRUCK ARRIVED AT 23:00
Assessment Of Location Safety Meeting	11/20/2011 23:10							ALL HES EMPLOYEES
Rig-Up Equipment	11/21/2011 05:00							1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 9.625 PLUG CONTAINER, 1 F 450 P/U
Pre-Job Safety Meeting	11/21/2011 06:20							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	11/21/2011 06:33							9.625 CASING SET AT 787.94', FC 743.17', TD: 800, OPEN HOLE 12.25", AIR DRILLED, 400 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.
Pump Water	11/21/2011 06:34		2	2			6.0	FILL LINES
Pressure Test	11/21/2011 06:35		0.5	0.5		2886.0		NO LEAKS
Pump Spacer 1	11/21/2011 06:41		4	20			53.0	FRESH WATER
Pump Lead Cement	11/21/2011 06:48		6	50.9			163.0	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	11/21/2011 06:56		6	30.6			198.0	120 SKS SWIFTCM 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	11/21/2011 07:02							FOR NO MORE THEN 5 MINUTES,
Drop Plug	11/21/2011 07:06							PLUG LAUNCHED
Pump Displacement	11/21/2011 07:07		6	57.5			230.0	FRESHWATER, GOT RETURNS 10 BBLS INTO DISPLACEMENT
Cement Returns to Surface	11/21/2011 07:10		6	37			190.0	20 BBLS OF CEMENT TO SURFACE.
Slow Rate	11/21/2011 07:16		3	47			198.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/21/2011 07:20		3	57.5			251.0	PLUG LANDED AT 731 HELD FOR TWO MINUTES
Check Floats	11/21/2011 07:22							FLOATS HOLDING, NO ANNULAR FLOW NOTED
End Job	11/21/2011 07:22							THANK YOU FOR USING HES FROM TROY ANGLESTEIN AND CREW.
Post-Job Safety Meeting (Pre Rig-Down)	11/21/2011 08:00							ALL HES EMPLOYEES
Rig-Down Equipment	11/21/2011 08:10							SAFELY, HES PUMP TO REMAIN ON LOCATION FOR NEXT SURFACE

BILL BARRETT

EPPEPLY 13B-23-692 SURFACE



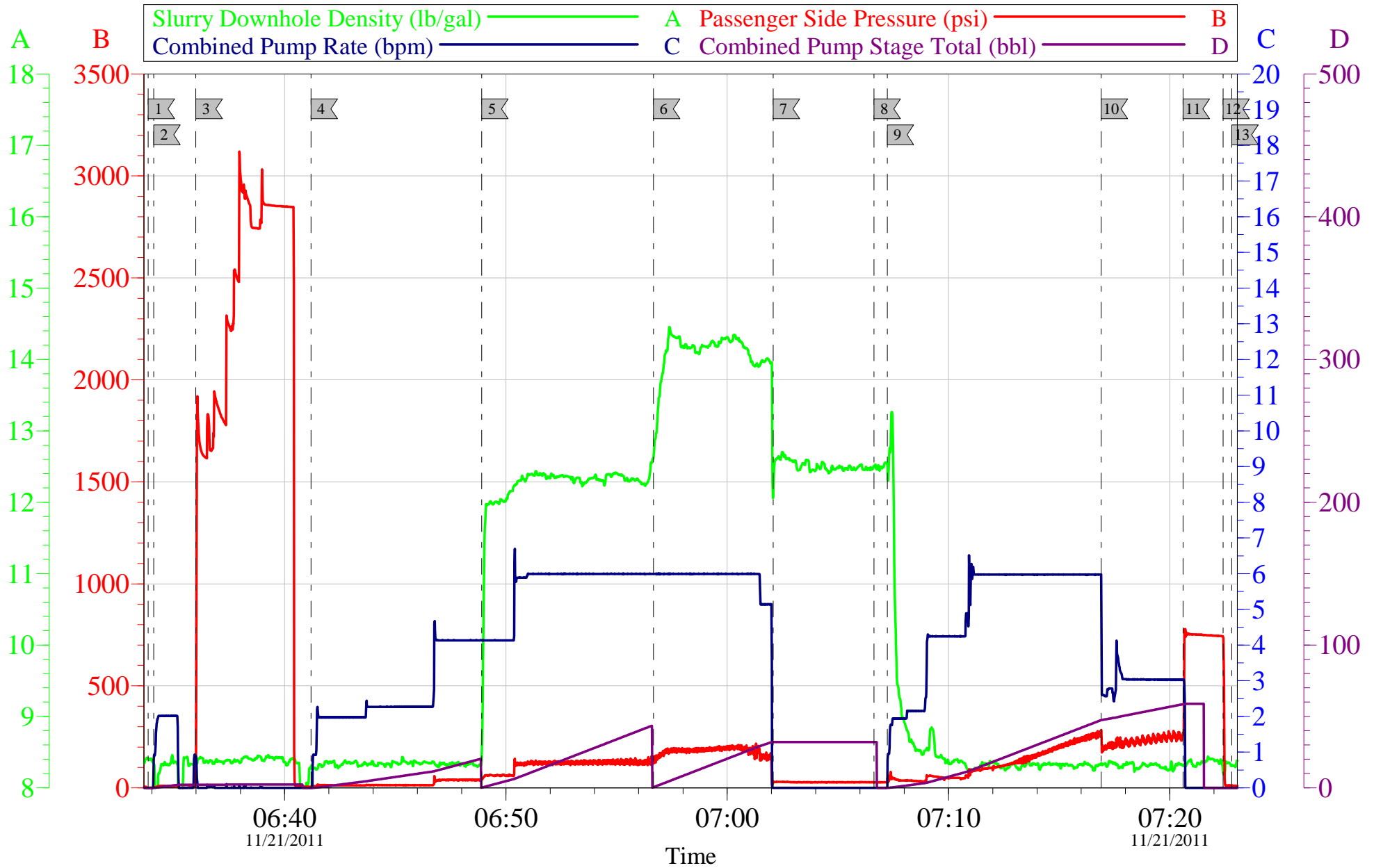
Local Event Log								
1	START JOB	06:33:50	2	FILL LINES	06:34:05	3	TEST LINES	06:35:59
4	PUMP H2O SPACER	06:41:12	5	PUMP LEAD CEMENT	06:48:54	6	PUMP TAIL CEMENT	06:56:40
7	SHUTDOWN	07:02:05	8	DROP PLUG	07:06:38	9	PUMP DISPLACEMENT	07:07:14
10	SLOW RATE	07:16:54	11	BUMP PLUG	07:20:36	12	CHECK FLOATS	07:22:24
13	END JOB	07:22:48						

Customer:	BILL BARRETT	Job Date:	21-Nov-2011	Sales Order #:	9057803
Well Description:	EPPEPLY 13B-23-692	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	CASEY LAUER	Cement Supervisor:	TROY ANGLESTEIN	Elite 2:	JOHN KEANE

OptiCem v6.4.10
21-Nov-11 07:42

BILL BARRETT

EPPERLY 13B-23-692 SURFACE



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Customer Rep:	CASEY LAUER	Cement Supervisor:	TROY ANGLESTEIN	Elite 2:	JOHN KEANE

OptiCem v6.4.10
21-Nov-11 07:42

Sales Order #: 9057803	Line Item: 10	Survey Conducted Date: 11/21/2011
Customer: BILL BARRETT CORPORATION E-BILL		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CASEY LAUER		API / UWI: (leave blank if unknown) AFEYS32M4ZJ3NFBAAA
Well Name: EPPERLY		Well Number: 13B-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	11/21/2011
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	

CUSTOMER SIGNATURE

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Well Name: EPPERLY		Well Number: 13B-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	11/21/2011

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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Well Name: EPPERLY		Well Number: 13B-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