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# **BILL BARRETT CORPORATION E-BILL**

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**FEDERAL 13B-34-691  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**18-Dec-2011**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2896404	Quote #:	Sales Order #: 9132799
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: FEDERAL	Well #: 13B-34-691	API/UWI #: 05-045-20857	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.479 deg. OR N 39 deg. 28 min. 45.088 secs.	Long: W 107.553 deg. OR W -108 deg. 26 min. 47.893 secs.		
Contractor: PROPETRO	Rig/Platform Name/Num: PROPETRO		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: FLING, MATTHEW	Srvc Supervisor: SLAUGHTER, JESSE	MBU ID Emp #: 454315	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
LYNGSTAD, FREDRICK D	2	403742	REEVES, BRANDON W	2	287883	SLAUGHTER, JESSE Dean	2	454315
SPARKS, CLIFFORD Paul	2	502476						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-18-2011	2	2						

TOTAL Total is the sum of each column separately

## Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	879.7 ft	879.7 ft				

## Job Times

Date	Time	Time Zone
18 - Dec - 2011	04:00	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
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Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
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		
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
1	WATER SPACER	FRESH WATER	20.00	bbl	8.34	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	125.0	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)	125.0	sacks	14.2	1.43	6.85	6	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT	FRESH WATER	64.6	bbl	8.4			6	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	64.6	Shut In: Instant		Lost Returns	NO	Cement Slurry	84.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	64.6	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	170
<b>Rates</b>									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	0 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>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> FLING, MATTHEW		<b>Srvc Supervisor:</b> SLAUGHTER, JESSE	<b>MBU ID Emp #:</b> 454315

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/18/2011 04:00							TD 890 FT, TP 879.72 FT, SHOE 44.08 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 12 3/8 IN
Arrive At Loc	12/18/2011 06:40							CREW STAYED ON LOCATION FROM PREVIOUS JOB
Assessment Of Location Safety Meeting	12/18/2011 06:50							WITH ALL HES PERSONNEL
Other	12/18/2011 07:00							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/18/2011 07:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	12/18/2011 07:25							
Pre-Job Safety Meeting	12/18/2011 07:30							WITH ALL PERSONNEL ON LOCATION
Start Job	12/18/2011 07:35							
Other	12/18/2011 07:35		2	2			20.0	FILL LINES WITH FRESH WATER
Test Lines	12/18/2011 07:37							TESTED LINES 2150 PSI PRESSURE HOLDING
Pump Spacer 1	12/18/2011 07:40		4	20			50.0	FRESH WATER
Pump Lead Cement	12/18/2011 07:46		6	53			165.0	125 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Pump Tail Cement	12/18/2011 07:55		6	31.8			215.0	125 SKS AT 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK
Shutdown	12/18/2011 08:00							
Drop Top Plug	12/18/2011 08:01							PLUG LAUNCHED

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	12/18/2011 08:01		6	54.6			280.0	FRESH WATER
Slow Rate	12/18/2011 08:11		3	10			270.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/18/2011 08:14		3		64.6		1180.0	PLUG BUMPED
Check Floats	12/18/2011 08:16							FLOATS HOLDING. HES RETURNED 1 BBL H2O TP PUMP
End Job	12/18/2011 08:18							PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB, HES RETURNED 20 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	12/18/2011 08:25							WITH ALL HES PERSONNEL
Rig-Down Equipment	12/18/2011 08:30							
Pre-Convoy Safety Meeting	12/18/2011 09:30							WITH ALL HES PERSONNEL
Crew Leave Location	12/18/2011 09:40							
Comment	12/18/2011 09:41							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.