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**BILL BARRETT CORPORATION E-BILL**

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

**Cement Surface Casing**  
17-Dec-2011

**Job Site Documents**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2896398	<b>Quote #:</b>	<b>Sales Order #:</b> 9132803
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> Lauer, Casey	
<b>Well Name:</b> FEDERAL		<b>Well #:</b> 13D-34-691	<b>API/UWI #:</b> 05-045-20870
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.479 deg. OR N 39 deg. 28 min. 45.185 secs.		<b>Long:</b> W 107.553 deg. OR W -108 deg. 26 min. 47.911 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> FLING, MATTHEW		<b>Srvc Supervisor:</b> SLAUGHTER, JESSE <b>MBU ID Emp #:</b> 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						
10616651C	120 mile	10867304	120 mile	10998054	120 mile	11583931	120 mile
11808827	120 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-17-2011	2	2						
<b>TOTAL</b>	<i>Total is the sum of each column separately</i>							

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>			<b>On Location</b>	17 - Dec - 2011	05:30	MST
<b>Form Type</b>		BHST	<b>Job Started</b>	17 - Dec - 2011	11:00	MST
<b>Job depth MD</b>	878.6 ft	<b>Job Depth TVD</b>	878.6 ft	<b>Job Completed</b>	17 - Dec - 2011	15:58
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	1. ft	<b>Departed Loc</b>	17 - Dec - 2011	16:40
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>				

**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>											

**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	SWIFTCEM (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	64.5	bbl	8.4			6	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	64.5	Shut In: Instant		Lost Returns	NO	Cement Slurry	84.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	64.5	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	12/17/2011 05:30							TD 870 FT, TP 851.23 FT, SHOE 44.61 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 12 3/8 IN
Pre-Convoy Safety Meeting	12/17/2011 07:50							WITH ALL HES PERSONNEL
Crew Leave Yard	12/17/2011 08:00							
Arrive At Loc	12/17/2011 11:00							RIG WAS DRILLING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	12/17/2011 15:35							WITH ALL HES PERSONNEL
Other	12/17/2011 15:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/17/2011 15:45							WITH ALL HES PERSONNEL
Rig-Up Equipment	12/17/2011 15:50							
Pre-Job Safety Meeting	12/17/2011 15:50							WITH ALL PERSONNEL ON LOCATION
Start Job	12/17/2011 15:58							
Other	12/17/2011 15:58		2	2			5.0	FILL LINES WITH FRESH WATER
Test Lines	12/17/2011 16:00							TESTED LINES TO 1920 PSI PRESSURE HOLDING
Pump Spacer 1	12/17/2011 16:03		4	20			45.0	FRESH WATER
Pump Lead Cement	12/17/2011 16:08		6	53			150.0	125 SKS AT 12.3 PPG, 2.38 FT <sup>3</sup> /SK, 13.77 GAL/SK
Pump Tail Cement	12/17/2011 16:18		6	31.8			180.0	125 SKS AT 14.2 PPG, 1.43 FT <sup>3</sup> /SK, 6.85 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	12/17/2011 16:23							
Drop Top Plug	12/17/2011 16:24							PLUG LAUNCHED
Pump Displacement	12/17/2011 16:24		6				270.0	FRESH WATER
Slow Rate	12/17/2011 16:33		3	10			255.0	SLOW RATE 10 BBLs PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/17/2011 16:36		3				1150.0	PLUG BUMPED
Check Floats	12/17/2011 16:39							FLOATS HOLDING. HES RETURNED 1 BBL H2O TO PUMP
End Job	12/17/2011 16:40							PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB, HES RETURNED 30 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	12/17/2011 16:45							WITH ALL HES PERSONNEL
Rig-Down Equipment	12/17/2011 16:50							
Crew Leave Location	12/17/2011 16:55							HES CREW WILL STAY ON LOCATION FOR THE NEXT JOB
Comment	12/17/2011 16:56							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.