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# **BILL BARRETT CORPORATION E-BILL**

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**FEDERAL 43D-33-691 43D-33-691  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**13-Dec-2011**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2896410	Quote #:	Sales Order #: 9132175
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: FEDERAL 43D-33-691	Well #: 43D-33-691	API/UWI #: 05-045-20856	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.479 deg. OR N 39 deg. 28 min. 45.217 secs.	Long: W 107.553 deg. OR W -108 deg. 26 min. 47.609 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	Srv 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 #
BRENNECKE, ANDREW Bailey	3	486345	REEVES, BRANDON W	3	287883	SLAUGHTER, JESSE Dean	3	454315

## 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	10973571	120 mile
11583931	120 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-13-2011	3	3						

**TOTAL** Total is the sum of each column separately

## Job

Formation Name													Date		Time		Time Zone	
Formation Depth (MD)		Top				Bottom				Called Out		12 - Dec - 2011		22:30		MST		
Form Type				BHST						On Location		13 - Dec - 2011		04:00		MST		
Job depth MD		872.2 ft		Job Depth TVD		872.2 ft				Job Started		13 - Dec - 2011		05:43		MST		
Water Depth				Wk Ht Above Floor		1. ft				Job Completed		13 - Dec - 2011		06:31		MST		
Perforation Depth (MD)		From				To				Departed Loc		13 - Dec - 2011		07:05		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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

1	WATER SPACER	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	125.0	sacks	12.3	2.38	13.77	5.6	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	5.6	6.85
	0.25 lbm	POLY-E-FLAKE (101216940)							
	6.85 Gal	FRESH WATER							
4	DISPLACEMENT	FRESH WATER	64	bbl	8.4			6	
Calculated Values		Pressures		Volumes					
Displacement	64	Shut In: Instant		Lost Returns	NO	Cement Slurry	84.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	15	Actual Displacement	64	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	169
Rates									
Circulating		Mixing	5.6	Displacement	6	Avg. Job	5.8		
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>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> FLING, MATTHEW		<b>Srv 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	12/12/2011 22:30							TD 890 FT, TP 872.18 FT, SHOE 43.65 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 12 3/8 IN
Pre-Convoy Safety Meeting	12/13/2011 00:50							WITH ALL HES PERSONNEL
Crew Leave Yard	12/13/2011 01:00							
Arrive At Loc	12/13/2011 04:00							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	12/13/2011 04:20							WITH ALL HES PERSONNEL
Other	12/13/2011 04:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/13/2011 04:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	12/13/2011 05:00							
Pre-Job Safety Meeting	12/13/2011 05:35							WITH ALL PERSONNEL ON LOCATION
Start Job	12/13/2011 05:43							
Other	12/13/2011 05:43		2	2			25.0	FILL LINES WITH FRESH WATER
Test Lines	12/13/2011 05:45							TESTED LINES TO 1310 PSI PRESSURE HOLDING
Pump Spacer 1	12/13/2011 05:49							FRESH WATER
Pump Lead Cement	12/13/2011 05:57		5.6	53			130.0	125 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Pump Tail Cement	12/13/2011 06:09		5.6	31.8			160.0	125 SKS AT 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	12/13/2011 06:13							
Drop Top Plug	12/13/2011 06:14							PLUG LAUNCHED
Pump Displacement	12/13/2011 06:15		6	54			285.0	FRESH WATER
Slow Rate	12/13/2011 06:24		3	10			270.0	SLOW RATE 10 BBLs PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/13/2011 06:28		3		64		630.0	PLUG BUMPED
Check Floats	12/13/2011 06:30							FLOATS HOLDING. HES RETURNED 1 BBL H2O TO PUMP
End Job	12/13/2011 06:31							PIPE WAS STATIC THROUGHOUT JOB, GOOD CIRCULATION DURING JOB, HES RETURNED 15 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	12/13/2011 06:45							WITH ALL HES PERSONNEL
Rig-Down Equipment	12/13/2011 06:50							
Pre-Convoy Safety Meeting	12/13/2011 07:00							WITH ALL HES PERSONNEL
Crew Leave Location	12/13/2011 07:05							
Comment	12/13/2011 07:06							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.