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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*

<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2896410	<b>Quote #:</b>	<b>Sales Order #:</b> 9132175
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> Lauer, Casey	
<b>Well Name:</b> FEDERAL 43D-33-691	<b>Well #:</b> 43D-33-691	<b>API/UWI #:</b> 05-045-20856	
<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. 45.217 secs.		<b>Long:</b> W 107.553 deg. OR W -108 deg. 26 min. 47.609 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 #
BRENNECKE, ANDREW Bailey	3	486345	REEVES, BRANDON W	3	287883	SLAUGHTER, JESSE Dean	3	454315

**Equipment**

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**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Form Type</b>		BHST	<b>On Location</b>	13 - Dec - 2011	04:00	MST
<b>Job depth MD</b>	872.2 ft	<b>Job Depth TVD</b>	<b>Job Started</b>	13 - Dec - 2011	05:43	MST
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	<b>Job Completed</b>	13 - Dec - 2011	06:31	MST
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>	<b>Departed Loc</b>	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
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>											

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	<b>WATER SPACER</b>	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	<b>Lead Cement</b>	<b>VERSACEM (TM) SYSTEM (452010)</b>	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	<b>Tail Cement</b>	<b>SWIFTCEM (TM) SYSTEM (452990)</b>	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	<b>DISPLACEMENT</b>	FRESH WATER	64	bbl	8.4			6	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
<i>Displacement</i>	64	<b>Shut In: Instant</b>		<b>Lost Returns</b>	NO	<i>Cement Slurry</i>	84.8	<b>Pad</b>	
<b>Top Of Cement</b>	SURFACE	<b>5 Min</b>		<b>Cement Returns</b>	15	<b>Actual Displacement</b>	64	<b>Treatment</b>	
<b>Frac Gradient</b>		<b>15 Min</b>		<b>Spacers</b>	20	<b>Load and Breakdown</b>		<b>Total Job</b>	169
<b>Rates</b>									
<i>Circulating</i>		<i>Mixing</i>	5.6	<i>Displacement</i>	6	<b>Avg. Job</b>	5.8		
<i>Cement Left In Pipe</i>	<b>Amount</b>	<b>0 ft</b>	<i>Reason</i>	<b>Shoe Joint</b>					
<i>Frac Ring # 1 @</i>	<i>ID</i>	<i>Frac ring # 2 @</i>	<i>ID</i>	<i>Frac Ring # 3 @</i>	<i>ID</i>	<i>Frac Ring # 4 @</i>	<i>ID</i>		
<i>The Information Stated Herein Is Correct</i>				<b>Customer Representative Signature</b>					

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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>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	12/12/2011 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

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.