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# **BILL BARRETT CORPORATION E-BILL**

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**GGU DALEY 24C-19-691  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**15-Mar-2011**

**Job Site Documents**

## Cementing Job Summary

***The Road to Excellence Starts with Safety***

<b>Sold To #:</b> 343492	<b>Ship To #:</b> 2841349	<b>Quote #:</b>	<b>Sales Order #:</b> 8022307
<b>Customer:</b> BILL BARRETT CORPORATION E-BILL		<b>Customer Rep:</b> MCNAMEO, MARK	
<b>Well Name:</b> GGU DALEY		<b>Well #:</b> 24C-19-691	<b>API/UWI #:</b> 05-045-19585
<b>Field:</b> MAMM CREEK	<b>City (SAP):</b> UNKNOWN	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.507 deg. OR N 39 deg. 30 min. 23.976 secs.		<b>Long:</b> W 107.599 deg. OR W -108 deg. 24 min. 3.47 secs.	
<b>Contractor:</b> Pro Petro		<b>Rig/Platform Name/Num:</b> Pro Petro	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> METLI, MARSHALL		<b>Srvs Supervisor:</b> PHILLIPS, MARK	<b>MBU ID Emp #:</b> 445272

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DOUT, JACOB J	4	430298	PHILLIPS, MARK Bejar	4	445272	WALPOLE, DARREN Livingston	4	485294

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10744648C	60 mile	10867094	60 mile	10897925	60 mile	10951250	60 mile
10998508	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03-14-2011	3.5	0	03-15-2011	3.5	1			

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

## Job Times

Formation Name				Date				Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	14 - Mar - 2011	18:00	MST	
Form Type			BHST		On Location	14 - Mar - 2011	20:30	MST	
Job depth MD	815. ft		Job Depth TVD	815. ft	Job Started	15 - Mar - 2011	00:45	MST	
Water Depth			Wk Ht Above Floor	2. ft	Job Completed	15 - Mar - 2011	01:29	MST	
Perforation Depth (MD)	From		To		Departed Loc	15 - Mar - 2011	03:30	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
OPEN HOLE				12.25				.	815.		
SURFACE CASING	New		9.625	8.921	36.		J-55	.	794.		

Sales/Rental/3<sup>rd</sup> 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		
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				750	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		20.00	bbl	8.33	.0	.0	5.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	5.0	13.77
		13.77 Gal FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	5.0	6.85
		6.85 Gal FRESH WATER							
4	DISPLACEMENT		58.00	bbl	8.33	.0	.0	5.0	
Calculated Values		Pressures		Volumes					
Displacement	58	Shut In: Instant		Lost Returns	0	Cement Slurry	81	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	162
Rates									
Circulating	AIR	Mixing	5	Displacement	5	Avg. Job		5	
Cement Left In Pipe	Amount	44 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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Field: MAMM CREEK	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.507 deg. OR N 39 deg. 30 min. 23.976 secs.		Long: W 107.599 deg. OR W -108 deg. 24 min. 3.47 secs.	
Contractor: Pro Petro	Rig/Platform Name/Num: Pro Petro		
Job Purpose: Cement Surface Casing	Ticket Amount:		
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: METLI, MARSHALL	Srvc Supervisor: PHILLIPS, MARK	MBU ID Emp #: 445272	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/14/2011 18:00							
Pre-Convoy Safety Meeting	03/14/2011 18:45							ALL HES EMPLOYEES
Arrive At Loc	03/14/2011 22:00							RIG STILL DRILLING
Assessment Of Location Safety Meeting	03/14/2011 22:11							ALL HES EMPLOYEES
Rig-Up Equipment	03/14/2011 22:30							1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 9.625" SCREW IN TYPE PLUG CONTAINER, 1 F 450 P/U.
Pre-Job Safety Meeting	03/15/2011 00:00							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	03/15/2011 00:45							TD 815', TP 794', HOLE 12.25", SJ 44', FC 750', 400 BBLs OF H2O ON LOCATION, WATER SAMPLE SUBMITTED. HOLES DRILLED WITH AIR, AIR RETURNS T/O. HOLE HAS NO FLUID IN IT.
Pump Water	03/15/2011 00:45		1	1			10.0	FILL LINES
Pressure Test	03/15/2011 00:46		0.5				2500. 0	NO LEAKS
Pump Spacer 1	03/15/2011 00:48		5	20			50.0	FRESH WATER

*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	03/15/2011 00:52		5	51			70.0	120 SKS VERSACEM CMT MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GAL/SK, CMT WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED. NO RETURNS
Pump Tail Cement	03/15/2011 01:02		5	31			100.0	120 SKS VERSACEM CMT MIXED AT 14.2 PPG, 1.43 YIELD, 6.85 GAL/SK, CMT WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED. NO RETURNS
Shutdown	03/15/2011 01:08							
Drop Plug	03/15/2011 01:09							PLUG LAUNCH
Pump Displacement	03/15/2011 01:09		5	58			200.0	FRESH WATER, GOOD RETURNS NOTED 5 BBLs INTO DISPLACEMENT.
Cement Returns to Surface	03/15/2011 01:17		5	33			220.0	25 BBLs OF CEMENT RETURNED TO SURFACE.
Slow Rate	03/15/2011 01:19		2	48			220.0	10 BBLs PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	03/15/2011 01:22		2	58			1350. 0	PLUG LANDED HOLD FOR TWO MINUTES
Check Floats	03/15/2011 01:28							FLOATS HOLDING. AFTER SECOND TIME BUMPING PLUG.
End Job	03/15/2011 01:29							THANK YOU FOR USING HES FROM MARK PHILLIPS AND CREW. BULK EQUIPMENT BLOWN DOWN ON LOCATION.

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SUMMIT Version: 7.20.130

Tuesdav. March 15. 2011 02:15:00

*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Post-Job Safety Meeting (Pre Rig-Down)	03/15/2011 01:45							ALL HES EMPLOYEES
Rig-Down Equipment	03/15/2011 02:30							SAFELY
Pre-Convoy Safety Meeting	03/15/2011 03:00							ALL HES EMPLOYEES
Crew Leave Location	03/15/2011 03:30							SITE WAS AS CLEAN AS WHEN WE ARRIVED

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Tuesday, March 15, 2011 02:15:00