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# **BILL BARRETT CORPORATION E-BILL**

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**DIXON FED 32C-23-692  
MAMM CREEK  
Garfield County , Colorado**

**Cement Surface Casing**  
**04-Apr-2012**

**Job Site Documents**

## The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2919078	Quote #:	Sales Order #: 9405515
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: DIXON FED	Well #: 32C-23-692	API/UWI #: 05-045-21115	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.52 secs.	Long: W 107.635 deg. OR W -108 deg. 21 min. 54.31 secs.		
Contractor: ProPetro Services Inc.	Rig/Platform Name/Num: ProPetro		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: METLI, MARSHALL	Srv Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HARDRICK, RAYMOND Frank	14	391324	TRIPLETT, MICHEAL Anthony	14	447908	WEAVER, CARLTON Russell	14	457698

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10784064	120 mile	10951245	120 mile	11006314	120 mile	11542767	120 mile
11808835	120 mile						

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
04/03/2012	5	1	04/04/2012	9	1			

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

## Job

## Job Times

Formation Name												Date		Time		Time Zone	
Formation Depth (MD)		Top				Bottom				Called Out		03 - Apr - 2012		23:00		MST	
Form Type				BHST						On Location							
Job depth MD		800. ft		Job Depth TVD		800. ft				Job Started		04 - Apr - 2012		08:25		MST	
Water Depth				Wk Ht Above Floor		2. ft				Job Completed		04 - Apr - 2012		09:20		MST	
Perforation Depth (MD)		From				To				Departed Loc		04 - Apr - 2012		09:30		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
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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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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
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1	Water Spacer		20.00	bbl	8.34			4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	120.0	sacks	12.3	2.38	13.77	6	13.77
	13.77 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	120.0	sacks	14.2	1.43	6.85	6	6.85
	6.85 Gal	FRESH WATER							
4	Displacement		56.00	bbl	8.33			6	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	55.7	Shut In: Instant		Lost Returns	0	Cement Slurry	81	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	160
<b>Rates</b>									
Circulating	0	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				
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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	04/04/2012 01:30							CEMENT ARRIVED ON LOCATION, REST OF CREW ON LOCATION FROM PREVIOUS JOB.
Assessment Of Location Safety Meeting	04/04/2012 01:35							REVIEWED EMERGENCY PLAN, ASSESSED WORK AREA AND SPOTTED EQUIPMENT.
Pre-Rig Up Safety Meeting	04/04/2012 07:30							ENTIRE CREW, WALKED THROUGH RIG UP LOOKING FOR HAZARDS.
Rig-Up Equipment	04/04/2012 07:35							1 PICK UP, 1 HT400 PUMP TRUCK, 1 660 BULK CEMENT TRUCK, 1 SCREW IN HEAD WITH PLUG,
Pre-Job Safety Meeting	04/04/2012 08:15							ENTIRE CREW AND RIG CREW.
Start Job	04/04/2012 08:25							TD 800' TP 780.87 SJ 44.85', 9 5/8 36# CASING IN 12 1/2" HOLE. AIR DRILLED HOLE.
Pump Water	04/04/2012 08:26		2	2			4.0	FILL LINES BEFORE TESTING
Pressure Test	04/04/2012 08:29						3000	HELD PRESSURE FOR 2 MIN, PRESSURE HELD, NO LEAKS.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

## Cementing Job Log

Pump Spacer 1	04/04/2012 08:33		4	20			60.0	FRESH WATER, PUMPED AT 2 BPM UNTIL CEMENT TUB UP TO WEIGHT AND WEIGHED WITH SCALES, SPED RATE TO 5 BPM AT 6 BBLs GONE.
Pump Lead Cement	04/04/2012 08:40		6	50.9			130.0	120 SKS VERSACEM, 12.3 PPG, 2.38 CUFT/SK, 13.77 GAL/SK.
Pump Tail Cement	04/04/2012 08:48		6	30.6			175.0	120 SKS VERSACEM, 14.2 PPG, 1.43 CUFT/SK, 6.85 GAL/SK.
Shutdown	04/04/2012 08:53							
Drop Top Plug	04/04/2012 09:05							VARIIFIED PLUG LEFT CONTAINER.
Pump Displacement	04/04/2012 09:06		6	56.7			220.0	FRESH WATER, CEMENT TO SURFACE AT 36 BBLs GONE, 20 BBLs OF CEMENT TO SURFACE. DID NOT USE ANY SUGAR.
Slow Rate	04/04/2012 09:13		6	46.7			200.0	SLOWED RATE TO 2 BPM TO BUMP PLUG.
Bump Plug	04/04/2012 09:18						240.0	PLUG LANDED AT 240 PSI, BUMPED UP TO 850 PSI AND HELD FOR 2 MIN.
Check Floats	04/04/2012 09:19							FLOATS HELD, WHEN RELEASED PRESSURE GOT 3/4 BBL OF WATER BACK TO TRUCK.
End Job	04/04/2012 09:20							RETURNS TO SURFACE AT 24 BBLs GONE ON TAIL CEMENT GOOD RETURNS REMAINDER. GOT CEMENT BACK WITH 33 BBLs GONE ON DISPLACEMENT, 20 BBLs OF CEMENT TO SURFACE. NO SUGAR USED, NO ADDITONAL HOURS.
Post-Job Safety Meeting (Pre Rig-Down)	04/04/2012 09:22							ENTIRE CREW
Rig-Down Equipment	04/04/2012 09:23							

***Cementing Job Log***

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	04/04/2012 09:30							CREW WILL STAY ON LOCATION FOR NEXT JOB.