
BILL BARRETT CORPORATION E-BILL

**FEDERAL 43C-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 #: 2896409	Quote #:	Sales Order #: 9132758
Customer: BILL BARRETT CORPORATION E-BILL	Customer Rep: Lauer, Casey		
Well Name: FEDERAL	Well #: 43C-33-691	API/UWI #: 05-045-20864	
Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.479 deg. OR N 39 deg. 28 min. 45.12 secs.	Long: W 107.553 deg. OR W -108 deg. 26 min. 47.591 secs.		
Contractor: PROPETRO	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: 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	2	486345	REEVES, BRANDON W	2	287883	SLAUGHTER, JESSE Dean	2	454315
SPARKS, CLIFFORD Paul	2	502476						

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	10867531	120 mile
10973571	120 mile	10989685	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	2	2						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	13 - Dec - 2011	12:00	MST
Form Type	BHST		Job Started	13 - Dec - 2011	22:14	MST
Job depth MD	851.2 ft	Job Depth TVD	Job Completed	13 - Dec - 2011	22:58	MST
Water Depth		Wk Ht Above Floor	Departed Loc			
Perforation Depth (MD)	From	To				

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/3rd 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 ³ /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	SWIFTCES (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	62.4	bbl	8.4			6	
Calculated Values		Pressures		Volumes					
Displacement	62.4	Shut In: Instant		Lost Returns	NO	Cement Slurry	84.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	62.4	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	167
Rates									
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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Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: METLI, MARSHALL		Srv Supervisor: SLAUGHTER, JESSE	MBU ID Emp #: 454315

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/13/2011 12:00							TD 870 FT, TP 851.23 FT, SHOE 44.61 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 12 3/8 IN
Arrive At Loc	12/13/2011 12:30							CREW STAYED ON LOCATION FROM PREVIOUS JOB
Assessment Of Location Safety Meeting	12/13/2011 21:40							WITH ALL HES PERSONNEL
Other	12/13/2011 21:45							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/13/2011 21:55							WITH ALL HES PERSONNEL
Rig-Up Equipment	12/13/2011 22:00							
Pre-Job Safety Meeting	12/13/2011 22:10							WITH ALL PERSONNEL ON LOCATION
Start Job	12/13/2011 22:14							
Other	12/13/2011 22:14		2	2			22.0	FILL LINES WITH FRESH WATER
Test Lines	12/13/2011 22:17							TESTED LINES 2220 PSI PRESSURE HOLDING
Pump Spacer 1	12/13/2011 22:21		4	20			50.0	FRESH WATER
Pump Lead Cement	12/13/2011 22:26		6	53			160.0	125 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Pump Tail Cement	12/13/2011 22:35		6	31.8			165.0	125 SKS AT 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK
Shutdown	12/13/2011 22:40							
Drop Top Plug	12/13/2011 22:41							PLUG LAUNCHED

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	12/13/2011 22:42		6	52.4			285.0	FRESH WATER
Slow Rate	12/13/2011 22:51		3	10			270.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/13/2011 22:54		3		62.4		1200.0	PLUG BUMPED
Check Floats	12/13/2011 22:57							FLOATS HOLDING. RETURNED 1 BBL H2O TO PUMP
End Job	12/13/2011 22:58							PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB, HES RETURNED 20 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	12/13/2011 23:05							WITH ALL HES PERSONNEL
Rig-Down Equipment	12/13/2011 23:10							
Crew Leave Location	12/13/2011 23:15							HES CREW WILL STAY ON LOCATION FOR THE NEXT JOB
Comment	12/13/2011 23:16							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.