
BILL BARRETT CORPORATION E-BILL

**FEDERAL 44D-33-691
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
17-Dec-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492		Ship To #: 2896405		Quote #:		Sales Order #: 9132792	
Customer: BILL BARRETT CORPORATION E-BILL				Customer Rep: Lauer, Casey			
Well Name: FEDERAL			Well #: 44D-33-691			API/UWI #: 05-045-20855	
Field: MAMM CREEK		City (SAP): SILT		County/Parish: Garfield			State: Colorado
Lat: N 39.479 deg. OR N 39 deg. 28 min. 45.098 secs.				Long: W 107.553 deg. OR W -108 deg. 26 min. 47.792 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			Srvs 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 #
LYNGSTAD, FREDRICK D	2	403742	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
10565341	120 mile	10616651C	120 mile	10804567	120 mile	11583931	120 mile
11808827	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-17-2011	2	2						

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	17 - Dec - 2011	00:00	MST
Form Type	BHST		Job Started	17 - Dec - 2011	01:25	MST
Job depth MD	868.2 ft	Job Depth TVD	868.2 ft	Job Completed	17 - Dec - 2011	02:06
Water Depth		Wk Ht Above Floor	1. ft	Departed Loc	17 - Dec - 2011	03:00
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	SWIFTCEM (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	63.7	bbl	8.4			6	
Calculated Values		Pressures		Volumes					
Displacement	63.7	Shut In: Instant		Lost Returns	NO	Cement Slurry	84.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	27	Actual Displacement	63.7	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	170
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	
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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/17/2011 00:00							TD 880 FT, TP 868.21 FT, SHOE 44.22 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 12 3/8 IN
Arrive At Loc	12/17/2011 00:40							CREW STAYED ON LOCATION FROM PREVIOUS JOB
Assessment Of Location Safety Meeting	12/17/2011 00:45							WITH ALL HES PERSONNEL
Other	12/17/2011 00:50							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/17/2011 00:55							WITH ALL HES PERSONNEL
Rig-Up Equipment	12/17/2011 01:00							
Pre-Job Safety Meeting	12/17/2011 01:15							WITH ALL PERSONNEL ON LOCATION
Start Job	12/17/2011 01:25							
Other	12/17/2011 01:25		2	2			10.0	FILL LINES WITH FRESH WATER
Test Lines	12/17/2011 01:27							TESTED LINES TO 2050 PSI PRESSURE HOLDING
Pump Spacer 1	12/17/2011 01:30		4	20			55.0	FRESH WATER
Pump Lead Cement	12/17/2011 01:35		6	53			160.0	125 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Pump Tail Cement	12/17/2011 01:45		6	31.8			200.0	125 SKS AT 14.2 PPG, 1.43 FT3/SK, 6.85 GAL/SK
Shutdown	12/17/2011 01:49							
Drop Top Plug	12/17/2011 01:50							PLUG LAUNCHED

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	12/17/2011 01:51		6	53.7			280.0	FRESH WATER
Slow Rate	12/17/2011 02:00		3	10			260.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/17/2011 02:02		3		63.7		1170.0	PLUG BUMPED
Check Floats	12/17/2011 02:05							FLOATS HOLDING. HES RETURNED 1 BBL H2O TO PUMP
End Job	12/17/2011 02:06							PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB, HES RETURNED 27 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	12/17/2011 02:10							WITH ALL HES PERSONNEL
Rig-Down Equipment	12/17/2011 02:15							
Pre-Convoy Safety Meeting	12/17/2011 02:50							WITH ALL HES PERSONNEL
Crew Leave Location	12/17/2011 03:00							
Comment	12/17/2011 03:01							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.