

**BILL BARRETT CORPORATION E-BILL  
DO NOT MAIL-1099 18TH ST,STE 2300W  
DENVER, Colorado**

Kunsemiller 5-61-21-0108BH

**Cade 24**

## **Post Job Summary** **Cement Surface Casing**

Date Prepared: 12/02/2013  
Version: 1

Service Supervisor: BIRCHELL, DEVIN

Submitted by: HINDS, MOLLYE

**HALLIBURTON**

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## Wellbore Geometry

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Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Open Hole Section	13 1/2" Open Hole		13.500		0.00	830.00
Casing	9 5/8" Surface Casing	9.63	8.921	36.00	0.00	830.00

## Pumping Schedule

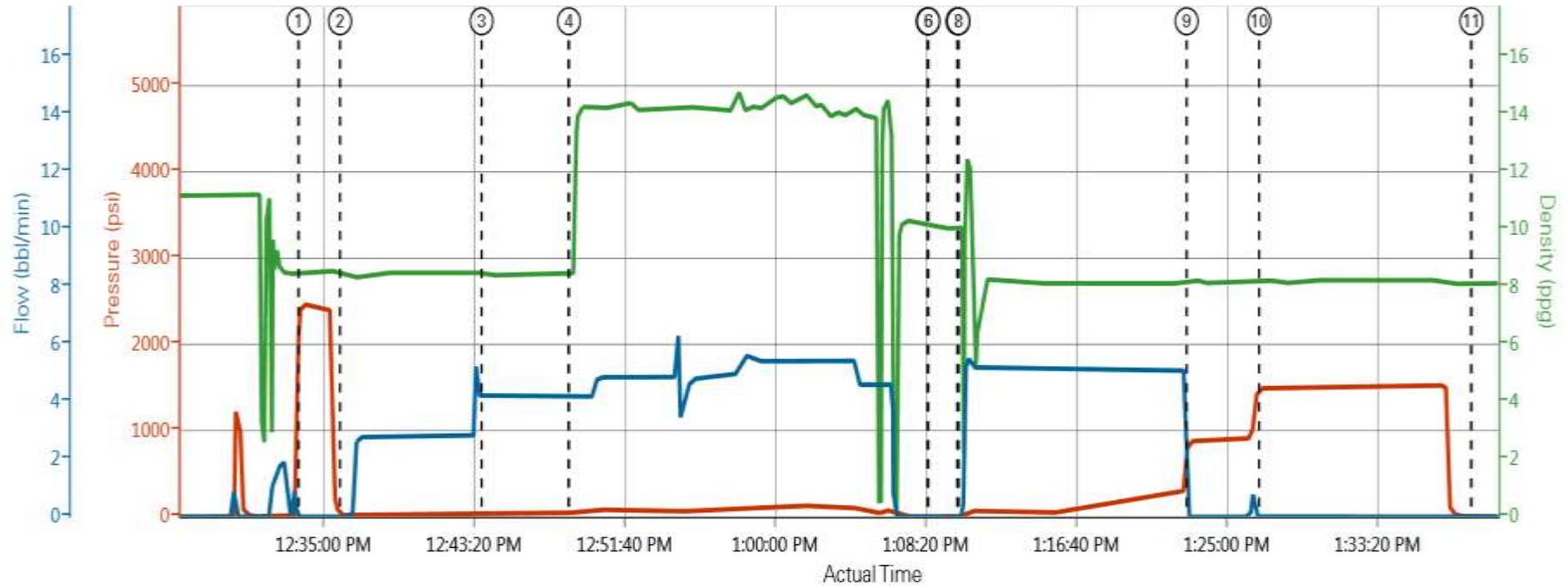
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Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Dyed Water Spacer	8.33	3.00	20.0 bbl	20.0 bbl
1	1	Spacer	FRESH WATER	8.33	4.00	20.0 bbl	20.0 bbl
1	2	Cement Slurry	Tail Cement	14.20	5.00	260.0 sks	260.0 sks
1	3	Spacer	DISPLACEMENT	8.33	5.00	60.0 bbl	60.0 bbl

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## Data Acquisition

Bill Barrett Kunsemiller 5-61-21-01108BH



Truck 1 Pr (psi)    Truck 1 Dens (ppg)    Truck 1 Slry Rt (bbl/min)

- |                             |                                |                               |                           |
|-----------------------------|--------------------------------|-------------------------------|---------------------------|
| ① Test Lines 2458;8.52;0    | ④ Pump Lead Cement 48;8.46;4.2 | ⑦ Drop Top Plug 4;10.08;0     | ⑩ Casing Test 1498;8.26;0 |
| ② Pump Spacer 1 14;8.46;0   | ⑤ Shutdown 3;10.16;0           | ⑧ Pump Displacement 4;10.04;0 | ⑪ End Job 5;8.15;0        |
| ③ Pump Spacer 2 44;8.49;4.2 | ⑥ Clean Lines 3;10.11;0        | ⑨ Bump Plug 868;8.16;0        |                           |

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
11/20/2013 07:00		Call Out					Called Out Cement Crew For Bill Barrett Kunsemiller 5-61-21-0108BH Surface
11/20/2013 09:40		Pre-Convoy Safety Meeting					Discussed Hazards On Route To Location, Weather, Other Traffic, Route
11/20/2013 10:00		Depart from Service Center or Other Site					
11/20/2013 11:30		Arrive At Loc					Arrived To Location Talked With Company Rep On Volumes, Rates, Depths
11/20/2013 11:35		Pre-Rig Up Safety Meeting					Discussed Hazards With Cement Crew For Rigging Up Iron and Water Hoses
11/20/2013 11:40		Rig-Up Equipment					
11/20/2013 12:10		Pre-Job Safety Meeting					Discussed Job Procedures With Cement and Rig Crews
11/20/2013 12:25		Rig-Up Completed					Finished Rigging Up To The Floor And Well Head
11/20/2013 12:30		Prime Pumps					Primed Pumps and Lines For Pressure Test
11/20/2013 12:33		Pressure Test				2425.0	Test Pump and Lines to 2425 psi
11/20/2013 12:36		Pump Spacer	3	20		37.0	Pumped 20 bbls Dyed Water Spacer
11/20/2013 12:43		Pump Spacer 1	4	20		45.0	Pumped 20 bbls Fresh Water Spacer
11/20/2013 12:48		Pump Cement	5	91		82.0	Pumped 91 bbls ( 260sks) 14.2 ppg Slurry, Yield 1.55 ft3/sk Water 7.68 gal/sk
11/20/2013 13:08		Drop Plug					Dropped Plug With Driller Witnessing
11/20/2013 13:10		Pump Displacement					Pumped 60 bbls Fresh Water Displacement
11/20/2013 13:10		Clean Lines	5			35.0	Washed Pump and Lines on Plug
11/20/2013 13:11		Spacer Returns to Surface	5	18		45.0	20 bbls Dyed Water, 10 bbls Fresh Water
11/20/2013 13:21		Cement Returns to Surface	5	58		625.0	2 bbls Cement Returns To Surface
11/20/2013 13:22		Bump Plug	5	60		648.0	Bumped Plug With 648 psi Took Pressure to 903 psi
11/20/2013 13:26		Pressure Up				1500.0	Pressured casing to 1500 psi and held for 10 minutes
11/20/2013 13:36		Check Floats					Checked Floats, Floats Held With .5 bbls Back To Truck
11/20/2013 13:38		Job Complete					
11/20/2013 13:40		Post-Job Safety Meeting (Pre Rig-Down)					Discussed Hazards With Crew For Rigging Down Iron and Water Hoses
11/20/2013 13:45		Rig-Down Equipment					
11/20/2013 14:20		Rig-Down Completed					
11/20/2013 14:25		Pre-Convoy Safety Meeting					Discussed Hazards On Route To Service Center, Weather, Other Traffic, Route
11/20/2013 14:30		Depart Location for Service Center or Other Site					Thank You For Using Halliburton Energy Services

# HALLIBURTON

**The Road to Excellence Starts with Safety**

Sold To #: 343492	Ship To #: 3202716	Quote #:	Sales Order #: 900914812
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**Customer:** BILL BARRETT CORPORATION E-BILL **Customer Rep:** Gritts, Kim

**Well Name:** Kunsemiller **Well #:** 5-61-21-0108BH **API/UWI #:** 05-123-38211

**Field:** WATTENBURG **City (SAP):** KERSEY **County/Parish:** Weld **State:** Colorado

**Job Purpose:** Cement Surface Casing

**Well Type:** Development Well **Job Type:** Cement Surface Casing

**Sales Person:** PLIENESS, RYAN **Srvc Supervisor:** BIRCHELL, DEVIN **MBU ID Emp #:** 466993

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BIRCHELL, DEVIN Ray	0.0	466993	LANGE, TIMOTHY Paul	0.0	520811	MILLER, GEOFFREY Alan	0.0	460232

### Equipment

HES Unit #	Distance-1 way						
11764054C	45 mile	11764737	45 mile	11812069C	45 mile	12010171	45 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

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

### Job

### Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD) From	To	Date	Time	Time Zone
			BHST	830. ft	827. ft				20 - Nov - 2013	07:00	MST
									20 - Nov - 2013	11:30	MST
									20 - Nov - 2013	12:33	MST
									20 - Nov - 2013	13:38	MST
									20 - Nov - 2013	14:30	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
13 1/2" Open Hole				13.5				.	830.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	830.		

### 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	FRESH WATER		40.0	bbl	8.33	.0	.0	4.0	
2	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	260.0	sacks	14.2	1.55	7.68	5.0	7.68
		FRESH WATER							
3	DISPLACEMENT		60.0	bbl	8.33	.0	.0	5.0	

*The Information Stated Herein Is Correct* **Customer Representative Signature**