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# **BLACK HILLS EXPLORATION & PROD-EBUS**

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**Ute 34-21  
LA PLATA  
La Plata County , Colorado**

**Cement Surface Casing**  
**21-Jun-2010**

**Job Site Documents**

## Cementing Job Summary

## *The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 359739	<b>Ship To #:</b> 359739	<b>Quote #:</b>	<b>Sales Order #:</b> 7448791
<b>Customer:</b> BLACK HILLS EXPLORATION & PROD-EBUS		<b>Customer Rep:</b>	
<b>Well Name:</b> Ute		<b>Well #:</b> 34-21	<b>API/UWI #:</b>
<b>Field:</b> LA PLATA	<b>City (SAP):</b> GOLDEN	<b>County/Parish:</b> La Plata	<b>State:</b> Colorado
<b>Contractor:</b> AWS		<b>Rig/Platform Name/Num:</b> 507	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> SNYDER, RANDALL		<b>Srvs Supervisor:</b> OMSBERG, TROY	<b>MBU ID Emp #:</b> 462388

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AXT, STEPHEN Gary	3	434802	OMSBERG, TROY L	3	462388	RICHSIN, ANTHONY Ray	3	412961

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025039	45 mile	10823383	45 mile	10829467	45 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
	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	21 - Jun - 2010	02:20	MST
Form Type			BHST			On Location	21 - Jun - 2010	06:00	MST
Job depth MD	468. ft		Job Depth TVD	468. ft		Job Started	21 - Jun - 2010	09:28	MST
Water Depth			Wk Ht Above Floor	5. ft		Job Completed	21 - Jun - 2010	09:56	MST
Perforation Depth (MD)	From			To		Departed Loc	21 - Jun - 2010	11:15	MST

## Well Data

<i>Description</i>	<b>New / Used</b>	<b>Max pressure psig</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>
12.25" Open Hole				12.25				.	468.		
8.625" Surface Casing	Unknown		8.625	8.097	24.			.	468.		

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
SUGAR, GRANULATED, IMPERIAL	150	LB		
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	H2O Spacer		20.00	bbl	8.33	.0	.0	.0		
2	Surface Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	270.0	sacks	15.8	1.17	5.01		5.01	
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)								
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)								
	0.125 lbm	POLY-E-FLAKE (101216940)								
	5.013 Gal	FRESH WATER								
3	H2O Displacement		28.00	bbl	8.33	.0	.0	.0		
Calculated Values		Pressures		Volumes						
Displacement	28.1	Shut In: Instant		Lost Returns	NO	Cement Slurry	56.3	Pad		
Top Of Cement	SURF	5 Min		Cement Returns	3	Actual Displacement	13	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	90	
Rates										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe	Amount	42 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						

*The Road to Excellence Starts with Safety*

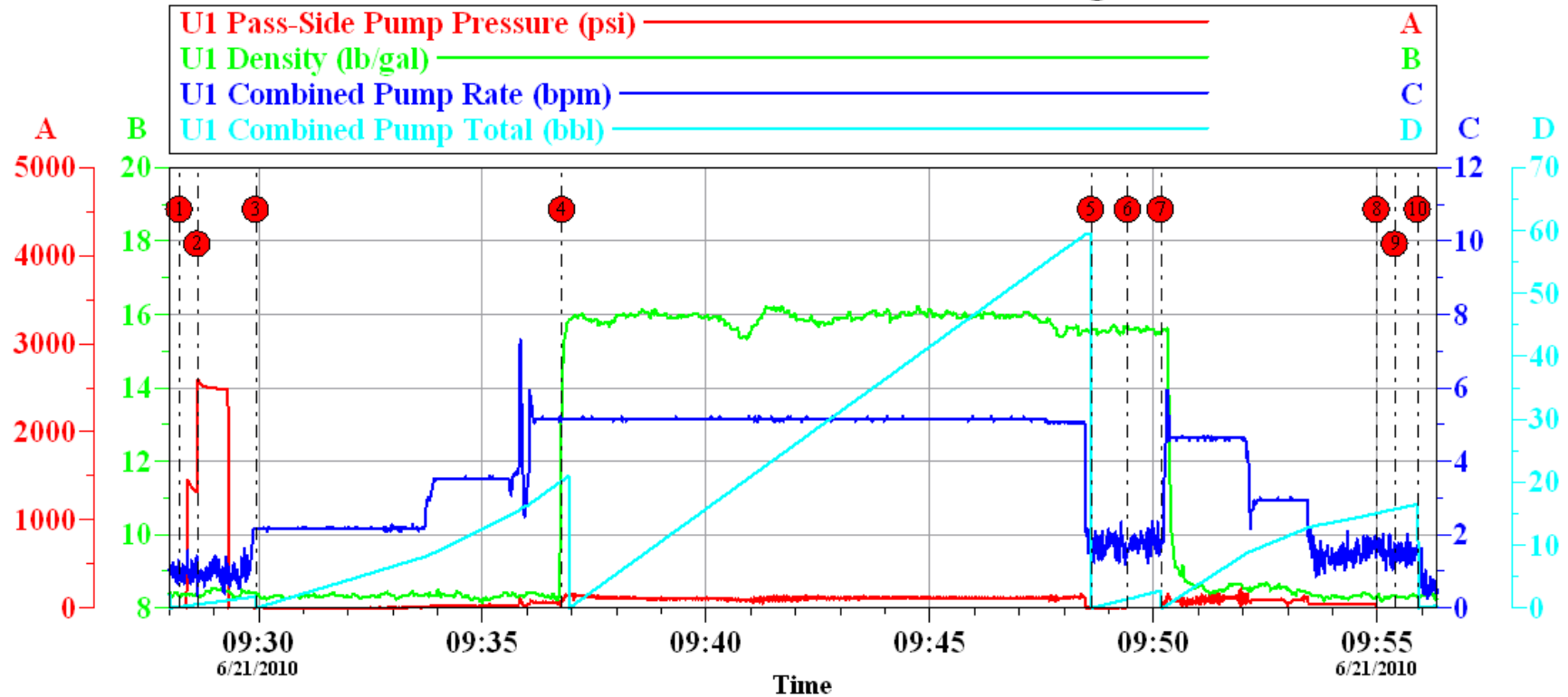
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<b>Well Name:</b> Ute	<b>Well #:</b> 34-21	<b>API/UWI #:</b>	
<b>Field:</b> LA PLATA	<b>City (SAP):</b> GOLDEN	<b>County/Parish:</b> La Plata	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b>		<b>Long:</b>	
<b>Contractor:</b> AWS		<b>Rig/Platform Name/Num:</b> 507	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> SNYDER, RANDALL		<b>Srv Supervisor:</b> OMSBERG, TROY	<b>MBU ID Emp #:</b> 462388

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/21/2010 02:20							
Safety Meeting - Service Center or other Site	06/21/2010 05:00							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Arrive At Loc	06/21/2010 06:00							1- F-450, 1-ZS-4 PUMP TRUCK 3383, 1- 660 BULK TRUCK/5039
Assessment Of Location Safety Meeting	06/21/2010 06:05							ASSESSMENT OF LOCATION INVOLVING THE ENTIRE CMT CREW
Pre-Rig Up Safety Meeting	06/21/2010 08:50							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Up Equipment	06/21/2010 09:00							
Pre-Job Safety Meeting	06/21/2010 09:15							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	06/21/2010 09:28							
Test Lines	06/21/2010 09:29						2295.0	PSI TEST GOOD - 2295 PSI
Pump Spacer 1	06/21/2010 09:30		2	20	20		25.0	20 BBLS FRESH WATER SPACER
Pump Lead Cement	06/21/2010 09:37		5	56.3	56.3		100.0	56.3 BBLS OF SURFACE CEMENT MIXED @ 15.8 LB/GAL - "G" W/ 2% CC & 1/8 LB POLY
Shutdown	06/21/2010 09:49			56.3	56.3			DROP TOP PLUG
Drop Top Plug	06/21/2010 09:50							PLUG LEFT THE PLUG CONTAINER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	06/21/2010 09:51		5	13	13		130.0	28.1 BBLS FRESH WATER DISPLACEMENT
Shutdown	06/21/2010 09:54		4	13	13		140.0	SHUTDOWN W/ 13 BBLS INTO DISPLACEMENT, COMPANY MAN REQUESTED THAT PUMP SHUTDOWN WHEN GOOD CEMENT HAD RETURNED TO SURFACE, CEMENT TO SURFACE = 3 BBLS
Check Floats	06/21/2010 09:55							FLOATS HELD
End Job	06/21/2010 09:56							GOOD CIRCULATION THROUGHOUT THE ENTIRE CMT JOB, NO PIPE MOVEMENT, CEMENT RETURNS = 3 BBLS
Pre-Rig Down Safety Meeting	06/21/2010 10:00							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Down Equipment	06/21/2010 10:20							
Safety Meeting - Departing Location	06/21/2010 11:00							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Comment	06/21/2010 11:15							THANK YOU FOR USING HALLIBURTON, ANTHONY RICHESON & CREW

# BLACK HILLS

Ute 34-21, 8 5/8" Surface Casing



## Local Event Log

Intersection		UPPP	Intersection		UPPP	Intersection		UPPP
①	Start Job	09:28:14 -19.15	②	Pressure Test	09:28:38 2295	③	Dyed Spacer	09:29:57 7.539
④	Surface Cement	09:36:47 92.70	⑤	Shutdown	09:48:37 3.322	⑥	Drop Plug	09:49:26 -0.799
⑦	Displace	09:50:10 -3.518	⑧	Shutdown	09:55:00 1.177	⑨	Check Floats	09:55:24 -12.31
⑩	End Job	09:55:55 -16.22						

Customer:  
Well Description:  
Customer Rep:

Job Date: 21-Jun-2010  
Job type:  
Service Supervisor:

Sales Order #: 7448791  
ADC Used:  
Operator/ Pump:

OptiCem v6.4.0  
21-Jun-10 10:08