

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2856249	Quote #:	Sales Order #: 8202308
Customer: PDC ENERGY EBUS		Customer Rep:	
Well Name: Wells Ranch	Well #: 23-33	API/UWI #: 05-123-33323	
Field:	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: FLING, MATTHEW		Srv Supervisor: SIPNEFSKI, ROBERT	
		TMBU ID Emp #: 419391	
Job Personnel			
HES Emp Name	Exp Hrs	Emp #	HES Emp Name
SIPNEFSKI, ROBERT Anthony	4	419391	TAYLOR, JOSHUA Lin
		4	485039
			THOMPSON, STEVEN
			Darrin
			4
			445340
Equipment			
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11142999	54 mile	11341988C	54 mile
			11527037
			54 mile
			11645063
			54 mile
Job Hours			
Date	On Location Hours	Operating Hours	Date
5/26/11	4	2	
TOTAL			
Total is the sum of each column separately			
Job Times			
Formation Name	Top	Bottom	Date
Formation Depth (MD)	Top	Bottom	Called Out
Form Type		BHST	On Location
Job depth MD	2600. ft	Job Depth TVD	2600. ft
Water Depth		Wk Ht Above Floor	Job Completed
Perforation Depth (MD)	From	To	Departed Loc
Well Data			
Description	New / Used	Max pressure psig	Size in in
Open Hole			9.
Production Casing	Unknown		4.5
Surface Casing	Unknown		8.625
TUBING	Unknown		1.25
			.671
			3.02
Tools and Accessories			
Type	Size	Qty	Make
Guide Shoe			Packer
Float Shoe			Bridge Plug
Float Collar			Retainer
Insert Float			
Stage Tool			
Miscellaneous Materials			
Gelling Agt	Conc	Surfactant	Conc
Treatment Fid	Conc	Inhibitor	Conc
Fluid Data			
Fluid #	Stage Type	Fluid Name	Qty
			Qty
			um
			Density lbm/gal
			Yield ft3/sk
			Mix Fluid Gall/sk
			Rate bbl/min
			Total Mix Fluid Gall/sk

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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	Clay/Fix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0				
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	.0	2.0				
3	Caly/Fix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0				
59.525 gal/Mgal		CLAYFIX 3, TOTETANK (101583425)										
4	Varicem B1 12#	VARICEM (TM) CEMENT (452009)		sacks	12.	2.18	12.34	2.0	12.34			
12.34 Gal		FRESH WATER										
Calculated Values			Pressures			Volumes						
Displacement		Shut In: Instant	Lost Returns		Cement Slurry		Pad					
Top Of Cement		5 Min	Cement Returns	8BBL	Actual Displacement		Treatment					
Frac Gradient		15 Min	Spacers		Load and Breakdown		Total Job					
Rates												
Circulating		Mixing		Displacement		Avg. Job						
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 Name: Wells Ranch		Well #: 23-33		API/UWI #: 05-123-33323		State: Colorado	
Field:		City (SAP): KERSEY		County/Parish: Weld			
Legal Description:				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.							
Contractor:		Rig/Platform Name/Num:					
Job Purpose: Recement Service		Ticket Amount:					
Well Type: Development Well		Job Type: Recement Service					
Sales Person: FLING, MATTHEW		Svc Supervisor: SIPNEFSKI, ROBERT MBU ID Emp #: 419391					

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	05/26/2011 07:30							
Rig-Up Equipment	05/26/2011 07:40							PERFORMED LOCATION ASSESSMENT PRIOR TO RIG UP.
Safety Meeting	05/26/2011 08:00							HELD SAFETY MEETING WITH ALL 3RD PARTY PERSONNEL.
Start Job	05/26/2011 08:15							
Test Lines	05/26/2011 08:18							
Pump Spacer 1	05/26/2011 08:20		2	10				10BBL OF CLAYFIX WATER SUPPLIED BY RIG.
Pump Spacer 2	05/26/2011 08:24		2	12				12BBL OF MUDDFLUSH III MIXED WITH WATER, SUPPLIED BY RIG.
Pump Spacer 1	05/26/2011 08:31		2	10				10BBL OF CLAYFIX WATER SUPPLIED BY RIG.
Pump Cement	05/26/2011 08:36		2	90				232SKS OF VARICEM CMT. @ 12PPG MIXED WITH WATER SUPPLIED BY RIG.
Pump Displacement	05/26/2011 09:21		2	1.5				PUMPED 1.5BBL OF WATER
Pause	05/26/2011 09:23							PAUSE RIG TRIP OUT 46 JNTS.
Resume	05/26/2011 09:43							RESUME PUMPING

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## *Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	05/26/2011 09:47		2	53				174SKS OF VARICEM CMT.@13PPG MIXED WITH WATER SUPPLIED BY RIG.
Pump Displacement	05/26/2011 10:11		2	1				PUMPED 1BBL OF WATER SUPPLIED BY RIG
End Job	05/26/2011 10:17							8BBL RETURNED BACK TO PIT.

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