

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	ClayFix 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	CalFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal									
CLAYFIX 3, TOTETANK (101583425)									
4	Surface Varicem B1 12#	VARICEM (TM) CEMENT (452009)	263.0	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal									
FRESH WATER									
5	Surface Varicem 13#	VARICEM (TM) CEMENT (452009)	307.0	sacks	13.	1.74	8.95	2.0	8.95
8.95 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				

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2853236	Quote #:	Sales Order #: 8163260
Customer: PDC ENERGY EBUS		Customer Rep:	
Well Name: Wells Ranch	Well #: 23-34	API/UWI #: 05-123-20972	
Field: Wattenberg	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 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	Srvc Supervisor: SIPNEFSKI, ROBERT	MBU ID Emp #: 419391	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments
Arrive at Location from Service Center	05/10/2011 07:00					
Rig-Up Equipment	05/10/2011 07:15					HELD PRE-RIG UP SAFETY MEETING TO ASSESS LOCATION.
Safety Meeting	05/10/2011 07:45					HELD SAFETY MEETING WITH ALL 3RD PARTY PERSONNEL.
Start Job	05/10/2011 08:14					
Test Lines	05/10/2011 08:14					CUSTOMER REQUEST MAX PSI 2500. TESTED LINES TO 3500 PSI
Pump Spacer 1	05/10/2011 08:17	2	10		1436.0	PUMPED 10 BBLs OF CLAYFIX WATER.
Pump Spacer 2	05/10/2011 08:23	2	12		1438.0	PUMPED 12 BBLs OF MUDFLUSH III MIXED WITH WATER SUPPLIED BY CUSTOMER.
Pump Spacer 1	05/10/2011 08:28	2	10		1457.0	PUMPED 10 BBLs OF CLAYFIX WATER.
Pump Cement	05/10/2011 08:34	2	101		1342.0	PUMPED 260 SKS OF SURFACE VARICEM @ 12PPG MIXED WITH WATER SUPPLIED BY CUSTOMER.
Pump Displacement	05/10/2011 09:21	2	1.5		1124.0	PUMPED 1.5 BBLs OF WATER SUPPLIED BY CUSTOMER.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments

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Cementing Job Log

Pause	05/10/2011 09:25							RIG CREW PULLING 52 STANDS TO PREPARE FOR 2ND STAGE.
Pump Cement	05/10/2011 10:00	2	54			467.0	PUMPED 174 SKS OF SURFACE VARICEM @ 13PPG MIXED WITH WATER SUPPLIED BY CUSTOMER.	
Pump Displacement	05/10/2011 10:55	2	1			555.0	PUMPED 1 BBL OF WATER SUPPLIED BY CUSTOMER.	
End Job	05/10/2011 11:01							
Rig-Down Equipment	05/10/2011 11:15							
Depart Location for Service Center or Other Site	05/10/2011 12:00						HELD PRE-RIG DOWN SAFETY MEETING. AND PREPARED FOR RETURN TRIP BACK TO SERVICE CENTER.	

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