

*The Road to Excellence Starts with Safety*

Sold To #: 304535		Ship To #: 2378219		Quote #:		Sales Order #: 8025594	
Customer: PDC ENERGY EBUS				Customer Rep: Green, Dan			
Well Name: Cockroft		Well #: 43-11		API/UWI #: 05-123-22343			
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:			Ticket Amount:		
Job Purpose: Recement Service		Job Type: Recement Service					
Well Type: Development Well		Srvc Supervisor: KELEHER, JASON		MBU ID Emp #: 437348			
Sales Person: FLING, MATTHEW							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments
Arrive at Location from Service Center	03/10/2011 07:00					
Assessment Of Location Safety Meeting	03/10/2011 07:10					
Test Lines	03/10/2011 08:40					PRESSURE TEST TO 3000 PSI
Pump Spacer 1	03/10/2011 08:43	2	10		735.0	RIG WATER WITH CLAYFIX ADDED
Pump Spacer 2	03/10/2011 08:49	2	12		670.0	MUDFLUSH III MIXED IN RIG WATER
Pump Spacer 1	03/10/2011 08:55	2	10		730.0	RIG WATER WITH CLAYFIX ADDED
Pump Cement	03/10/2011 09:00	2	34		950.0	80 SKS HLC MIXED AT 11.3 PPG WITH RIG WATER
Shutdown	03/10/2011 09:17					RIG TO PULL 17 JOINTS PULLING UP TO 831'
Pump Cement	03/10/2011 09:33	2	42		625.0	135 SKS VARICEM MIXED AT 13.0 PPG WITH RIG WATER
Shutdown	03/10/2011 10:37					GOOD RETURNS THROUGHOUT JOB. 5 BBL CEMENT BACK TO SURFACE
End Job	03/10/2011 10:41					

# HALLIBURTON

## Cementing Job Summary

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Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srvc Supervisor: KELEHER, JASON	MBU ID Emp #: 437348	
Job Personnel			
HES Emp Name	Exp Hrs	Emp #	HES Emp Name
KELEHER, JASON E	4.5	437348	NIELSON, BRANDON K
		4.5	479703
			OTERI, VAUGHN
			4.5
			443828
Equipment			
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248053C	44 mile	11410470C	44 mile
		11518548	44 mile
Job Hours			
Date	On Location Hours	Operating Hours	Date
3-10-11	4	2	
TOTAL			Total is the sum of each column separately
Job			
Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type		BHST	
Job depth MD	1363. ft	Job Depth TVD	1363. ft
Water Depth		Wk Ht Above Floor	
Perforation Depth (MD)	From	To	
Well Data			
Description	New / Used	Max pressure psig	Size in in ID Weight lbm/ft Thread Grade Top MD Bottom MD Top TVD Bottom TVD
Open Hole			9. 10.5
Production	Unknown		4.5 4.052 10.5 J-55 546. 1400. 7990.
Casing	Unknown		8.625 8.097 24. J-55 546.
Surface Casing	Unknown		1.25 .671 3.02
TUBING	Unknown		
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	Conc	Surfactant
Treatment Fld	Conc	Conc	Inhibitor
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



# HALLIBURTON

## Cementing Job Summary

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	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	CalyFix III Water Spacer			10.00	bbl	8.33	.0	.0	2.0			
		59.525 gal/Mgal		CLAYFIX 3, TOTETANK (101583425)								
4	Extendacem 11.3#	EXTENDACEM (TM) SYSTEM (452981)		80.0	sacks	11.3	2.4	11.9	2.0	11.9		
		11.9 Gal		FRESH WATER								
5	Varicem 13#	VARICEM (TM) CEMENT (452009)		135.0	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		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							