

## The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2843338	Quote #:	Sales Order #: 8040142
Customer: PDC ENERGY EBUS	Well Name: Wells Ranch	Well #: 42-5	Customer Rep: Green, Dan
Field: WATTENBERG	City (SAP): KERSEY	County/Parish: Weld	API/UWI #: 05-123-21803
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	Svc Supervisor: WHEELER, JUSTIN	MBU ID Emp #: 196470	
Sales Person: FLING, MATTHEW			

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments	
				Stage	Total	Tubing	Casing
Depart from Service Center or Other Site	03/16/2011 12:30						
Arrive At Loc	03/16/2011 14:30						
Safety Meeting - Pre Rig-Up	03/16/2011 14:45						
Test Lines	03/16/2011 15:17						
Pump Spacer	03/16/2011 15:18		2	10		1930.0	Pump Clayfix Water
Pump Spacer	03/16/2011 15:24		2	12		1765.0	Pump Mud Flush
Pump Spacer	03/16/2011 15:29		2	10		1780.0	Pump Clayfix Water
Pump Cement	03/16/2011 15:34		2	145.3		1835.0	Mix and Pump 340 sks Cement @ 11.3 lb/gal
Cement Returns to Surface	03/16/2011 16:52		2			2450.0	5 bbls Cement to Surface
Shutdown	03/16/2011 16:54						
Safety Meeting - Pre Rig-Down	03/16/2011 17:30						
Safety Meeting - Departing Location	03/16/2011 18:00						

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Quote #:

Sales Order #:

8040142

SUMMIT Version: 7.20.130

Wednesday, March 16, 2011 05:14:00

# HALLIBURTON

## Cementing Job Summary

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Field: WATTENBERG	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: FLING, MATTHEW		Srvc Supervisor: WHEELER, JUSTIN	MBU ID Emp #: 196470

  

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
COPELAND,	3.5	429242	FANTASIA, JOSEPH	3.5	485445	SNYDER, JONATHAN	3.5
GEORGE Willard			Brandon			Leroy	
WHEELER, JUSTIN	3.5	196470	WILEY, JAMES A	3.5	440080		

  

Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857080C	56 mile	10867419C	56 mile	10948694	56 mile	10972458	56 mile
11019275	56 mile	11398319	56 mile	11542778	56 mile	11562562	56 mile

  

Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Date	On Location Hours	Operating Hours
3-16-11	3.5	2.5					
TOTAL							

Total is the sum of each column separately

  

Job Times							
Formation Name	Top	Bottom	Called Out	On Location	Job Started	Job Completed	Departed Loc
Formation Depth (MD)			16 - Mar - 2011	00:00	16 - Mar - 2011	16 - Mar - 2011	16 - Mar - 2011
Form Type		BHST	16 - Mar - 2011	14:30	16 - Mar - 2011	15:16	MST
Job depth MD	3457. ft	Job Depth TVD	3457. ft		Job Started	16 - Mar - 2011	16:55
Water Depth		Wk ft Above Floor			Job Completed	16 - Mar - 2011	18:00
Perforation Depth (MD)	From	To			Departed Loc	16 - Mar - 2011	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
Open Hole				9.				367.	3457.		
Production Casing	Unknown		4.5	4.052	10.5		J-55		6942.		
Surface Casing	Unknown		8.625	8.097	24.		J-55		367.		
TUBING	Unknown		1.25	671	3.02				3457.		

  

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	Conc	Surfactant	Conc	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Conc	Inhibitor	Conc	Conc	Sand Type	Size	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	ClayFix III Water Spacer		10	bbl	8.33	.0	.0	2.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12	bbl	8.4	.0	.0	2.0	
3	CalvFix III Water Spacer		10	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal CLAYFIX 3, TOTETANK (101583425)									
4	Extendacem 11.3#	EXTENDACEM (TM) SYSTEM (452981)	340	sacks	11.3	2.4	13.85	2.0	13.85
13.85 Gal FRESH WATER									
Calculated Values			Pressures			Volumes			
Displacement	2	Shut In: Instant	2450	Lost Returns	No	Cement Slurry	145.3	Pad	
Top Of Cement	Surface	5 Min		Cement Returns	5 bbls	Actual Displacement	0	Treatment	
Frac Gradient		15 Min		Spacers	32 bbls	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	ID	
The Information Stated Herein Is Correct				Customer Representative Signature					