

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535		Ship To #: 2843458		Quote #:		Sales Order #: 8040944	
Customer: PDC ENERGY EBUS		Customer Rep:					
Well Name: Wells Ranch		Well #: 24-11		API/UWI #: 05-123-22244			
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		Srv Supervisor: SANFORD, DALE		MBU ID Emp #: 219527			
Job Personnel							
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #
BANUELOS,		3.5	372277	HERNDON, SCOTT E		3.5	485448
GUADALUPE							
TAYLOR, JOSHUA		3.5	485939				
Lin							
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11488570C	55 mile	11518550	55 mile				
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
3-17-11	3.5	2.5					
TOTAL		Total is the sum of each column separately					
Job				Job Times			
Formation Name				Date		Time	Time Zone
Formation Depth (MD)		Top	Bottom	Called Out		17 - Mar - 2011	04:00 MST
Form Type		BHST		On Location		17 - Mar - 2011	07:00 MST
Job depth MD		2721. ft	Job Depth TVD	2721. ft	Job Started	17 - Mar - 2011	08:09 MST
Water Depth		Wk Ht Above Floor			Job Completed	17 - Mar - 2011	09:45 MST
Perforation Depth (MD)		From	To		Departed Loc	17 - Mar - 2011	10:30 MST
Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
Open Hole				9.			
Production Casing	Unknown		4.5	4.052	10.5		J-55
Surface Casing	Unknown		8.625	8.097	24.		J-55
TUBING	Unknown		1.25	671	3.02		
Tools and Accessories							
Type	Size	Qty	Make	Depth	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	Conc	Surfactant	Conc	Conc	Acid Type
Treatment Fld	Conc	Conc	Conc	Inhibitor	Conc	Conc	Sand Type
							Qty
							Conc
							%

Stage/Plug #: 1										Fluid Data			
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	CalvFix 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)	340.0	sacks	11.3	2.4	13.85	2.0	13.85				
13.85 Gal			FRESH WATER										
Calculated Values			Pressures		Volumes								
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad					
Top Of Cement		5 Min		Cement Returns	1 bbl	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	ID	ID				
The Information Stated Herein Is Correct				Customer Representative Signature									

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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		Srv Supervisor: SANFORD, DALE		MBU ID Emp #: 219527			

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	03/17/2011 08:09							
Pump Spacer 1	03/17/2011 08:11		2	10			2000. 0	Clay Fix Water
Pump Spacer 1	03/17/2011 08:17		2	12			2100. 0	Mud flush
Pump Spacer 1	03/17/2011 08:22		2	10			2100. 0	Clay Fix Water
Pump Cement	03/17/2011 08:27		2	145			2100. 0	340 Sks Cmt @ 11.3#
Pump Displacement	03/17/2011 09:39		2	1			2100. 0	Water
Shutdown	03/17/2011 09:40							POOH
End Job	03/17/2011 09:47							1 BBL Cement to pit