

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2842494	Quote #:	Sales Order #: 8029521
Customer: PDC ENERGY EBUS	Customer Rep:		
Well Name: Cecil	Well #: 13-1	API/UWI #: 05-123-22347	
Field: WATTENBERG	City (SAP): GALETON	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srvc Supervisor: SANFORD, DALE	MBU ID Emp #: 219527	
Job Personnel			
HES Emp Name	Exp Hrs	Emp #	HES Emp Name
BANUELOS,	4	372277	DIXON, ROBERT E
GUADALUPE		4	480071
SANFORD, DALE A	4	219527	OLSON, NICHOLAS
			Martin
Equipment			
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036295	48 mile	11064046	48 mile
		11488570C	48 mile
			11518550
			48 mile
Job Hours			
Date	On Location Hours	Operating Hours	Date
3-11-11	4	3	
TOTAL	Total is the sum of each column separately		
Job Times			
Formation Name	Top	Bottom	Date
Formation Depth (MD)			Called Out
Form Type	BHST		On Location
Job depth MD	2895	Job Depth TVD	2895
Water Depth		Wk Ht Above Floor	
Perforation Depth (MD)	From	To	Departed Loc
Well Data			
Description	New / Used	Max pressure psig	Size in in
Open Hole			9.
Production	Unknown		4.5
Casing	Unknown		4.052
Surface Casing	Unknown		8.625
TUBING	Unknown		8.097
			24
			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	Conc	Surfactant
Treatment Fld	Conc	Conc	Inhibitor
			Conc
			Conc
			Acid Type
			Sand Type
			Qty
			Conc
			%

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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	CalFix 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)		370.0	sacks	11.3	2.4	11.9	2.0	11.9	
11.9 Gal				FRESH WATER							
Calculated Values		Pressures		Volumes							
Displacement		Shut In: Instant		Lost Returns		Cement Slurry	58	Pad			
Top Of Cement		5 Min		Cement Returns	24	Actual Displacement	1	Treatment			
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job			
				Rates							
Circulating	2	Mixing	2	Displacement	2	Avg. Job	2				
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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Field: WATTENBERG	City (SAP): GALETON	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: SANFORD, DALE	MBU ID Emp #: 219527	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments	
				Stage	Total	Tubing	
Test Lines	03/11/2011 14:10					3400.0	Water test ok
Pump Spacer 1	03/11/2011 14:17		2	10		2100.0	Clayfix Water td 2895'
Pump Spacer 1	03/11/2011 14:22		2	12		2100.0	Mud Flush
Pump Spacer 1	03/11/2011 14:27		2	10		2100.0	Clayfix Water
Pump Cement	03/11/2011 14:32		2	79		2100.0	185 Sks Cmt @ 11.3#
Pump Displacement	03/11/2011 15:11		2	1		2100.0	Water
Shutdown	03/11/2011 15:12						POOH to 1675'
Pump Cement	03/11/2011 15:42		2	79		2100.0	185 Sks @ 11.3#
Shutdown	03/11/2011 16:17						24 Bbl Good Cmt to pit