

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2855184	Quote #:	Sales Order #: 8187042
Customer: PDC ENERGY EBUS		Customer Rep:	
Well Name: Wells Ranch	Well #: 13-33	API/UWI #:	
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	Svc Supervisor: ROSALES, MATTHEW	MBU ID Emp #: 392095	
Job Personnel			
HES Emp Name	Exp Hrs	Emp #	HES Emp Name
HERNDON, SCOTT E	5.5	485448	ROSALES, MATTHEW
			John
Equipment			
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857080C	56 mile	11398319	56 mile
			11410470C
			56 mile
			11605598
			56 mile
Job Hours			
Date	On Location Hours	Operating Hours	Date
05/20/11	5.5	2	
TOTAL			Total is the sum of each column separately
Job Times			
Formation Name	Top	Bottom	
Formation Depth (MD)			
Form Type	BHST		
Job depth MD	2131 ft	Job Depth TVD	2131 ft
Water Depth	Wk Ht Above Floor	4 ft	
Perforation Depth (MD)	From	To	
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
			Acid Type
			Sand Type
			Qty
			Size
			Qty
			Conc %

Fluid Data

Stage/Plug #: 1	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
Fluid #	Stage Type							

Stage/Plug #: 1

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Stage/Plug #: 1												
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	CalvFix III Water Spacer			10.00	bbl	8.33	.0	.0	2.0			
59.525 gal/Mgal		CLAYFIX 3, TOTETANK (101563425)										
4	Varicem B1 12#	VARICEM (TM) CEMENT (452009)		297.0	sacks	12.	2.18	12.34	2.0	12.34		
12.34 Gal		FRESH WATER										
Calculated Values				Pressures		Volumes						
Displacement		Shut In: Instant		Lost Returns		N	Cement Slurry		105	Pad		
Top Of Cement		5 Min		Cement Returns 8BBL		Actual Displacement						
Frac Gradient		15 Min		Spacers		32	Load and Breakdown		Total Job		140.5	
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								

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Well Name: Wells Ranch		Well #: 13-33		API/UWI #:			
Field: Wattenberg		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Legal Description:				Lat: Long:			
Contractor:		Rig/Platform Name/Num:					
Job Purpose: Recement Service		Job Type: Recement Service		Ticket Amount:			
Well Type: Development Well		Sync Supervisor: ROSALES, MATTHEW/MBU ID Emp #: 392095					
Sales Person: FLING, MATTHEW							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Job Safety Meeting	05/20/2011 09:40							PUMP SCHEDULE, LOCATION HAZARDS, JOB HAZARDS, OFF LIMIT AREAS, MUSTER POINT, LOCATION OF EMERGENCY STATIONS, HEAD COUNT
Start Job	05/20/2011 09:55							
Pump Water	05/20/2011 09:55	2	1	1		45.0		FILL LINES
Test Lines	05/20/2011 09:55	0.5	0.5	1.5		3706.0		RESET KICK OUTS TO 2500 AFTER TEST
Pump Spacer 1	05/20/2011 09:58	2	10	11.5		1110.0		WATER SPACER WITH CLAYFIX
Pump Spacer 2	05/20/2011 10:04	2	12	23.5		1260.0		MUD FLUSH
Pump Spacer 1	05/20/2011 10:10	2	10	33.5		1195.0		WATER SPACER WITH CLAYFIX
Pump Lead Cement	05/20/2011 10:18	2	67	100.5		1550.0		172sks of 12#/gal LEAD CEMENT
Pump Displacement	05/20/2011 10:52	2	1.5	102		1656.0		
Pause	05/20/2011 10:53							PAUSE TO PULL TUBING OUT OF HOLE
Resume	05/20/2011 11:14							
Pump Tail Cement	05/20/2011 11:14	2	38	140		1150.0		125SKS OF 13# GAL TAIL CEMENT
Pump Displacement	05/20/2011 11:32	2	0.5	140.5		1000.0		
End Job	05/20/2011 11:35							

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SUMMIT Version: 7.20.130

Friday, May 20, 2011 12:03:00