

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #:	304535	Ship To #:	2848312	Quote #:		Sales Order #:	8100555
Customer:	PDC ENERGY EBUS						
Well Name:	Wells Ranch	Well #:	33-34	Customer Rep:		API/UWI #:	05-123-20977
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:	SALINAS, JOSE	MBU ID Emp #:	100319		

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
BORDEN, RYAN	3	476216	SALINAS, JOSE R	3	100319	TAYLOR, JOSHUA Lin	33
VASQUEZ, ALVARO A	3	401745					

Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10948695	50 mile	11019824C	50 mile	11362287C	50 mile		

Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
4-12-11	3	1					
TOTAL							

Total is the sum of each column separately

Job Times							
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	12 - Apr - 2011	03:00	Time Zone
Form Type			BHST	On Location	12 - Apr - 2011	06:30	MST
Job depth MD	1650. ft	Job Depth TVD	1650. ft	Job Started	12 - Apr - 2011	08:50	MST
Water Depth		Wk Ht Above Floor		Job Completed	12 - Apr - 2011	09:52	MST
Perforation Depth (MD)	From	To		Departed Loc	12 - Apr - 2011	11:00	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.				405.	1650.		
Production Casing	Unknown		4.5	4.052	10.5		J-55		6943.		
Surface Casing	Unknown		8.625	8.097	24.		J-55		405.		
TUBING	Unknown		1.25	.671	3.02				1650.		

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	Inhibitor	Conc	Conc	Acid Type	Qty	Conc %
Treatment Fld		Conc		Inhibitor		Conc	Sand Type	Size	Qty

Stage/Plug #: 1				Fluid Data							
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 (101583425)							
4	Extendacem 11.3#	EXTENDACEM (TM) SYSTEM (452981)		217.0	sacks	11.3	2.4	13.83	2.0	13.83	
		13.83 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	ID	ID	ID	
The Information Stated Herein Is Correct				Customer Representative Signature							

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Cementing Job Log

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Customer:	PDC ENERGY EBUS			Customer Rep:			
Well Name:	Wells Ranch	Well #:	33-34	API/UWI #:	05-123-20977		
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		Srvc Supervisor: SALINAS, JOSE		MBU ID Emp #: 100319	
Activity Description		Date/Time	Cht #	Rate bbl/min	Volume bbl	Stage	Total	Pressure psig	Comments
								Tubing	Casing
Call Out		04/12/2011 03:00							
Depart Yard Safety Meeting		04/12/2011 05:00							
Arrive at Location from Service Center		04/12/2011 06:26							
Pre-Rig Up Safety Meeting		04/12/2011 06:30							
Rig-Up Equipment		04/12/2011 06:45							
Pre-Job Safety Meeting		04/12/2011 08:00							
Start Job		04/12/2011 08:51							
Test Lines		04/12/2011 08:52	2	2	2			3000.0	TEST LINES WITH WATER
Pump Spacer 1		04/12/2011 08:58	2	2	10			1046.0	PUMP CLAYFIX WATER SPACER @ 8.33 PPG
Pump Spacer 2		04/12/2011 09:02	2	2	12			1341.0	PUMP MUD FLUSD SPACER @ 8.4 PPG
Pump Spacer 1		04/12/2011 09:07	2	2	10			1265.0	PUMP CLAYFIX WATER SPACER @ 8.3 PPG
Pump Lead Cement		04/12/2011 09:11	2	2	92.7			1347.0	PUMP LEAD CMT EXPANDACEM (92.7 BBL) @ 11.3 PPG
Pump Displacement		04/12/2011 09:50	1	1	1			2340.0	PUMP WATER DISPLACEMENT
Shutdown		04/12/2011 09:52	0	0	0			81.0	SHUT DOWN
Bleeding Tubing Or Casing		04/12/2011 09:53	0	0	0			.0	BLEED OFF PSI
Pre-Rig Down Safety Meeting		04/12/2011 09:55							