

Cementing Job Summary

HALLIBURTON

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk														
1	ClayFix III		10.00	bbl	8.33	.0	.0	2.0															
	Water Spacer																						
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	.0	2.0															
	Water Spacer																						
3	CalFix III		10.00	bbl	8.33	.0	.0	2.0															
	Water Spacer																						
CLAYFIX 3, TOTETANK (101583425)																							
4	Varicem 12#	VARICEM (TM) CEMENT (452009)	270.0	sacks	12.	2.18	12.34	2.0	12.34														
FRESH WATER																							
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	140.0	sacks	13.	1.71	8.84	2.0	8.84														
FRESH WATER																							
8.84 Gal																							
Calculated Values			Pressures			Volumes																	
Displacement			Shut In: Instant			Lost Returns			no	Cement Slurry	147.4	Pad											
Top Of Cement			Surface			5 Min			Cement Returns			5 bbls	Actual Displacement	Treatment	Total Job								
Frac Gradient			15 Min			Spacers			Load and Breakdown														
Circulating			Mixing			Displacement			Avg. Job														
Cement Left in Pipe			Amount			0 π			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								

The Road to Excellence Starts with Safety

Sold To #: 304535		Ship To #: 2884471		Quote #:		Sales Order #: 8545771	
Customer: PDC ENERGY EBUS				Customer Rep: Alvarado, Phillip			
Well Name: Wells Ranch				Well #: 14-15			
Field:				City (SAP): GREELEY			
				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:							
Job Purpose: Recement Service							
Well Type: Development Well							
Job Type: Recement Service							
Sales Person: FLING, MATTHEW							
Svc Supervisor: WHEELER, JUSTIN							
MBU ID Emp #: 196470							

Activity Description	Date/Time	#	Rate bbl/ min	Volume bbl	Pressure psig	Comments
Depart from Service Center or Other Site	10/14/2011 06:30					
Arrive At Loc	10/14/2011 07:15					
Safety Meeting - Pre Rig-Up	10/14/2011 07:30					
Test Lines	10/14/2011 08:30					Pressure Test Lines to 3500 PSI, Tubing Set @ 2757'
Pump Spacer	10/14/2011 08:33	1	10	485.0		Pump Clayfix Water
Pump Spacer	10/14/2011 08:38	2	12	1650.	0	Pump Mud Flush
Pump Spacer	10/14/2011 08:43	2	10	1640.	0	Pump Clayfix Water
Pump Cement	10/14/2011 08:49	2	104.8	1615.	0	Mix and Pump 270 sks Varicem Cement @ 12 lb/gal
Pump Displacement	10/14/2011 09:46	2	1.5	1855.	0	Pump Fresh Water Displacement
Shutdown	10/14/2011 09:48					Shut-Down, POOH 54 Jts.
Pump Cement	10/14/2011 10:35	2	42.6	470.0		Mix and Pump 140 sks Varicem Cement @ 13 lb/gal
Pump Displacement	10/14/2011 10:55	1.5	0.5	1220.	0	Pump Fresh Water Displacement
Shutdown	10/14/2011 11:09					5 bbls Cement to Surface
Safety Meeting - Pre Rig- Down	10/14/2011 11:09					
Safety Meeting - Departing Location	10/14/2011 11:09					