

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	ClayWeb 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	ClayWeb Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal									
CLA-WEB - TOTE (101985045)									
4	FillCem 11.8#	EXTENDACEM (TM) SYSTEM (452981)	355.0	sacks	11.8	2.06	12.34	2.0	12.34
12.34 Gal FRESH WATER									
Calculated Values									
Displacement		Pressures		Volumes					
Top Of Cement	.5	Shut In: Instant		Lost Returns	0	Cement Slurry	130	Pad	
Frac Gradient	0	5 Min		Cement Returns	11 BBL	Actual Displacement	.5	Treatment	
				Spacers	32	Load and Breakdown		Total Job	
Rates									
Circulating		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					

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2911373	Quote #:	Sales Order #: 9313259
Customer: PDC ENERGY EBUS		Customer Rep: ALVARODO, PHILIP	
Well Name: National Hog Farm	Well #: 31-21	API/UWI #: 05-123-21183	
Field: Wattenberg	City (SAP): KERSEY	County/Parish: Weld	State: Colorado
Legal Description:			
Lat: N 40.39 deg. OR N 40 deg. 23 min. 25.39 secs.	Long: W 104.439 deg. OR W -105 deg. 33 min. 40.392 secs.		
Contractor: Basic	Rig/Platform Name/Num: 1548		
Job Purpose: Recement Service		Ticket Amount:	
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srv Supervisor: PICKELL, CHRISTOPHER	MBU ID Emp #: 396838	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments		
Start Job	02/27/2012 09:00			Stage	Total	Tubing	Casing	
Test Lines	02/27/2012 09:01	1				3490.0		PRESSURE TEST LINES TO 3500 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
Pump Spacer 1	02/27/2012 09:03	2	10			1650.0		PUMP WATER SPACER WITH CLAYWEB AND ESTABLISH OUR RATE. WATER PROVIDED BY THE RIG
Pump Spacer 2	02/27/2012 09:09	2	12	22		1550.0		PUMP MUDDLUSH SPACER. WATER PROVIDED BY THE RIG
Pump Spacer 1	02/27/2012 09:15	2	10	32		1550.0		PUMP WATER SPACER WITH CLAYWEB. WATER PROVIDED BY THE RIG
Pump Cement	02/27/2012 09:21	1.7	80	112		1700.0		PUMP FILLCEM CEMENT 218 SKS 11.8 PPG 2.06 CUFT/SK 12.34 GAL/SK MIXED WITH RIG WATER
Shutdown	02/27/2012 10:09							SHUTDOWN FOR RIG TO PULL 44 JOINTS
Pump Cement	02/27/2012 10:32	2	50	162		1200.0		PUMP FILLCEM CEMENT 137 SKS 11.8 PPG 2.06 CUFT/SK 12.34 GAL/SK MIXED WITH RIG WATER