

The Road to Excellence Starts with Safety

Sold To #: 304535		Ship To #: 2844949		Quote #:		Sales Order #: 8056566	
Customer: PDC ENERGY EBUS				Customer Rep: Sailors, Chad			
Well Name: State		Well #: 21-4		API/UWI #: 05-123-20930			
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: BWS		Rig/Platform Name/Num: #12					
Job Purpose: Recement Service		Job Type: Recement Service		Ticket Amount:			
Well Type: Development Well		MBU ID Emp #: 419296					
Sales Person: FLING, MATTHEW		Srvc Supervisor: LAVALLEY, LARRY					

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart from Service Center or Other Site	03/24/2011 11:00							
Arrive At Loc	03/24/2011 12:30							
Wait on Customer or Customer Sub-Contractor Equip	03/24/2011 12:30							Tubing Stuck in Hole
HES Resources on Location and Available to Perform	03/24/2011 12:30							
Other	03/24/2011 14:30							Customer Rep. Released HES From Location
Start Job	03/29/2011 08:17							WELL CIRCULATED 1 HOUR PRIOR TO CEMENTING
Test Lines	03/29/2011 08:17				3500.0			TEST LINES WITH RIG WATER
Pump Spacer 1	03/29/2011 08:20	2	10	10	1015.0			RIG WATER WITH CLAYFIX III
Pump Spacer 2	03/29/2011 08:26	2	12	22	1542.0			RIG WATER WITH MUDDFLUSH III
Pump Spacer 1	03/29/2011 08:31	2	10	32	1488.0			RIG WATER WITH CLAYFIX III
Pump Lead Cement	03/29/2011 08:36	2	120	152	1549.0			280 SKS EXTENDACEM 11.3 PPG MIXED WITH RIG WATER
Pump Displacement	03/29/2011 09:40	2	1	153	1396.0			RIG WATER
Shutdown	03/29/2011 09:41							SHUTDOWN WHILE RIG PULLED 65 JOINTS OF TUBING
Pump Tail Cement	03/29/2011 10:26	2	48	201	570.0			140 SKS VARICEM 13 PPG MIXED WITH RIG WATER

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SUMMIT Version: 7.20.130

Tuesday, March 29, 2011 11:03:00

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 (528768)		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 (101563425)							
4	Extendacem 11.3#	EXTENDACEM (TM) SYSTEM (452981)		280.0	sacks	11.3	2.4	13.83	2.0	13.83	
13.83 Gal				FRESH WATER							
5	Varicem 13.0#	VARICEM (TM) CEMENT (452009)		114.0	sacks	13.	1.74	8.98	2.0	8.98	
8.98 Gal				FRESH WATER							
Calculated Values		Pressures		Volumes							
Displacement	1	Shut In: Instant		Lost Returns	0	Cement Slurry		168	Pad		
Top Of Cement		5 Min		Cement Returns	2	Actual Displacement	1	Treatment			
Frac Gradient		15 Min		Spacers	32	Load and Breakdown		Total Job	201		
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							