

## The Road to Excellence Starts with Safety

Sold To #: 304535		Ship To #: 3007348		Quote #:		Sales Order #: 900558607	
Customer: PDC ENERGY EBUS				Customer Rep: Sailors, Chad			
Well Name: Frank		Well #: 1-21C		API/UWI #: 05-123-12549			
Field: WATTENBERG		City (SAP): LA SALLE		County/Parish: Weld		State: Colorado	
Lat: N 40.206 deg. OR N 40 deg. 12 min. 22.813 secs.				Long: W 104.672 deg. OR W -105 deg. 19 min. 40.091 secs.			
Contractor: WORKOVER		Rig/Platform Name/Num: Workover					
Job Purpose: Squeeze Perfs							
Well Type: Development Well		Job Type: Squeeze Perfs					
Sales Person: PLEINESS, RYAN		Srvc Supervisor: MCBRIDE, NATHAN		MBU ID Emp #: 313810			
Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
CHISLUM, DENNIS	8.0	512130	MARKOVICH, STEVEN	8.0	502964	MCBRIDE, NATHAN	8.0
			Michael			Charles	
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10822531C	30 mile	11064046C	30 mile	11362287C	30 mile	11633848	30 mile
12010170	30 mile						
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
TOTAL							
Total is the sum of each column separately							
Job							
Job Times							
Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone	
Formation Depth (MD)				01 - Jul - 2013	04:30	MST	
Form Type	BHST		On Location	01 - Jul - 2013	08:00	MST	
Job depth MD	3515. ft	Job Depth TVD	3515. ft	01 - Jul - 2013	10:34	MST	
Water Depth	Wk Ht Above Floor		5. ft	01 - Jul - 2013	14:34	MST	
Perforation Depth (MD)	From 4,600.00 ft	To	5,200.00 ft	Departed Loc	01 - Jul - 2013	16:00	MST
Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
Perforation Interval							Top MD ft
Perforation Interval							Bottom MD ft
Perforation Interval							Top TVD ft
Perforation Interval							Bottom TVD ft
10" Open Hole			10.				
12" Open Hole			12.				
4 1/2"	Unknown		4.5	4.	11.6		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.		
Retainer	Unknown		3.5	2.992	9.3		
Tubing	Unknown		2.375	1.995	4.7	8 RD	J-55
							3515.

## 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		Surfactant		Conc		Acid Type		Qty		Conc	%							
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty								
Fluid Data																				
Stage/Plug #: 1																				
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk									
1	Econocem B3 12.5#	ECONOCCEM (TM) SYSTEM (452992)			90.0	sacks	12.5	1.89	10.27		10.27									
	10.27 Gal	FRESH WATER																		
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)			12.00	bbl	8.4	.0	.0	.0										
	42 gal/bbl	FRESH WATER																		
	3.33 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)																		
3	Varicem 12.5	VARICEM (TM) CEMENT (452009)			125.0	sacks	12.	2.18	12.33		12.33									
Calculated Values																				
				Pressures			Volumes													
Displacement		Shut In: Instant			Lost Returns		Cement Slurry		Pad											
Top Of Cement		5 Min			Cement Returns	8	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										
The Information Stated Herein Is Correct					Customer Representative Signature															