

## The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2841079	Quote #:	Sales Order #: 8014929
Customer: PDC ENERGY EBUS		Customer Rep:	
Well Name: Pfenning	Well #: 44-31	API/UWI #: 05-123-22574	
Field: WATTENBERG	City (SAP): GALETON	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Svc Supervisor: SANFORD, DALE	MBU ID Emp #: 219527	

  

Job Personnel									
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	
BANUELOS,	4	372277	BARNES, BRIAN L	4	485204	SANFORD, DALE A	4	219527	
GUADALUPE									
TAYLOR, JOSHUA	4	485939							
Lin									

  

Equipment									
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248063C	43 mile	10866493C	43 mile	10982754C	43 mile	11518550	43 mile		
11542778	43 mile								

  

Job Hours									
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	
3-4-11	4	2							
TOTAL			Total is the sum of each column separately						

  

Job Times									
Formation Name	Formation Depth (MD)	Top	Bottom	Date	Time	Time Zone			
Form Type			BHST	04 - Mar - 2011	09:30	MST			
Job depth MD	2252. ft		Job Depth TVD	04 - Mar - 2011	14:00	MST			
Water Depth			Wk Ht Above Floor	04 - Mar - 2011	14:44	MST			
Perforation Depth (MD)	From	To	Job Completed	04 - Mar - 2011	17:00	MST			
			Departed Loc	04 - Mar - 2011	18:00	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.							
Production Casing	Unknown		4.5	4.052	10.5		J-55	454.	2464.		
Surface Casing	Unknown		8.625	8.097	24.		J-55		408.		
TUBING	Unknown		1.25	.671	3.02				2260.		

  

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

Stage/Plug #: 1				Fluid Data							
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	Clay/Fix 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	Cal/Fix 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)	230.0	sacks	11.3	2.25	11.9	2.0	11.9		
11.9 Gal			FRESH WATER								
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	145.0	sacks	13.	1.74	8.95	2.0	8.95		
8.95 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		
The Information Stated Herein Is Correct				Customer Representative Signature							



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Well Name: Pfennig		Well #: 44-31		API/UWI #: 05-123-22574			
Field: WATTENBERG		City (SAP): GALETON		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:		Ticket Amount:			
Job Purpose: Recement Service		Job Type: Recement Service					
Well Type: Development Well		Srv Supervisor: SANFORD, DALE		MBU ID Emp #: 219527			
Sales Person: FLING, MATTHEW							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	03/04/2011 14:45						3500. 0	Water test ok
Pump Spacer 1	03/04/2011 14:49		2	10			2100. 0	Clay Fix Water
Pump Spacer 1	03/04/2011 14:50		2	12			2100. 0	Mud flush
Pump Spacer 1	03/04/2011 14:55		2	10			2100. 0	Clay Fix Water
Pump Lead Cement	03/04/2011 15:00		2	30			2100. 0	230 Sks Cmt @ 11.3#
Shutdown	03/04/2011 15:16							Pipe got stuck pooh 11 fts
Pump Lead Cement	03/04/2011 15:35		2	62			2100. 0	Finish pumping lead cmt
Pump Tail Cement	03/04/2011 15:38		2	45			600.0	145 Sks Cmt @13#
Pump Displacement	03/04/2011 16:13		2	1			2100. 0	Water
Shutdown	03/04/2011 16:15							POOH to Approx 814'
Pump Displacement	03/04/2011 16:54		2	0.5			600.0	Water
End Job	03/04/2011 16:55							35 bb cmt to pit