

## The Road to Excellence Starts with Safety

Sold To #:	304535	Ship To #:	2849175	Quote #:		Sales Order #:	8110187
Customer:	PDC ENERGY EBUS	Customer Rep:	Sailors, Chad				
Well Name:	Wells Ranch	Well #:	44-34	API/UWI #:	05-123-21007		
Field:	WATTENBERG	City (SAP):	KERSEY	County/Parish:	Weld	State:	Colorado
Lat:	N 40.438 deg.	OR N 40 deg.	26 min. 15.166 secs.	Long:	W 104.416 deg.	OR W -105 deg.	35 min. 3.516 secs.
Contractor:	BWS	Rig/Platform Name/Num:	#12				
Job Purpose:	Recement Service						
Well Type:	Development Well	Job Type:	Recement Service				
Sales Person:	FLING, MATTHEW	Svc Supervisor:	LAVALLEY, LARRY	MBU ID Emp #:	419296		
Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
FLYNN, SHAD	3	476484	LAVALLEY, LARRY P	3	419296	RAMOS, REFUGIO	3
Michael						Castro	435413
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	53 mile	10804557C	53 mile	11488570C	53 mile	11518549	53 mile
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
4/18/11	3	1.5					
TOTAL			Total is the sum of each column separately				
Job							
Formation Name						Job Times	
Formation Depth (MD)	Top		Bottom			Date	Time
						18 - Apr - 2011	04:00
Form Type			BHST			18 - Apr - 2011	07:15
Job depth MD	1820. ft		Job Depth TVD	1820. ft		18 - Apr - 2011	08:22
Water Depth			Wk Ht Above Floor	6. ft		18 - Apr - 2011	09:35
Perforation Depth (MD)	From		To			18 - Apr - 2011	10:30
							MST
Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
							Top MD ft
Open Hole				9.			Bottom MD ft
Production Casing	Unknown		4.5	4.052	10.5		J-55
Surface Casing	Unknown		8.625	8.097	24.		J-55
TUBING	Unknown		1.25	.671	3.02		
							408.
							1820.
							6908.
							408.
							1820.
Tools and Accessories							
Type	Size	Qty	Make	Depth	Type	Size	Qty
Guide Shoe					Packer		
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float							
Stage Tool							
Miscellaneous Materials							
Gelling Agt			Conc		Surfactant		
Treatment Fld			Conc		Inhibitor		
			Conc		Conc		
			Acid Type		Sand Type		
			Qty		Size		
			Conc		%		

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	ClayFix III Water Spacer		10.00	bbl	8.33	.0	42.0	2.0						
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	42.0	2.0						
3	CalvFix III Water Spacer		10.00	bbl	8.33	.0	42.0	2.0						
59.525 gal/Mgal														
4	Surface Varicem 13#	CLAYFIX 3, TOTETANK (101583425)	107.0	sacks	13.	1.74	8.95	2.0	8.95					
8.95 Gal														
5	Surface Varicem 12#	FRESH WATER	180.0	sacks	12.	2.17	12.34	2.0	12.34					
12.34 Gal														
FRESH WATER														
Calculated Values			Pressures			Volumes								
Displacement	1	Shut In: Instant	Lost Returns	0	Cement Slurry	99	Pad							
Top Of Cement		5 Min	Cement Returns	0	Actual Displacement	1	Treatment							
Frac Gradient		15 Min	Spacers	32	Load and Breakdown		Total Job	135						
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									

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Legal Description:								
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Contractor: BWS		Rig/Platform Name/Num: #12						
Job Purpose: Recement Service		Ticket Amount:						
Well Type: Development Well		Job Type: Recement Service						
Sales Person: FLING, MATTHEW		Srv Supervisor: LAVALLEY, LARRY		MBU ID Emp #: 419296				
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	04/18/2011 08:22							WELL CIRCULATED 1 HOUR PRIOR TO CEMENTING
Test Lines	04/18/2011 08:23					3367.0		TEST LINES WITH RIG WATER
Pump Spacer 1	04/18/2011 08:25		2	10	10	438.0		RIG WATER WITH CLAYFIX III
Pump Spacer 2	04/18/2011 08:31		2	12	22	597.0		RIG WATER WITH MUDDFLUSH III
Pump Spacer 1	04/18/2011 08:37		2	10	32	799.0		RIG WATER WITH CLAYFIX III
Pump Lead Cement	04/18/2011 08:42		22	33	65	685.0		107 SKS SURFACE VARICEM #13 PPG MIXED WITH RIG WATER
Pump Tail Cement	04/18/2011 08:56		2	69	134	921.0		180 SKS VARICEM # 12 PPG MIXED WITH RIG WATER
Pump Displacement	04/18/2011 09:26		2	1	135	950.0		RIG WATER
End Job	04/18/2011 09:35							NEVER SAW CEMENT TO SURFACE BUT DID SEE PREFLUSH
Other	04/18/2011 09:39							SOMETHING WAS STUCK IN RECIRC HAD TO SCALE THROUGHT JOB WEIGHT OF 12# CEMENT WAS BETWEEN 12# AND 12.4#

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SUMMIT Version: 7.20.130

Monday, April 18, 2011 09:45:00