

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To 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		Srv Supervisor: LAVALLEY, LARRY											
		MBU ID Emp #: 419296											
Job Personnel													
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #								
FLYNN, SHAD	3	476484	LAVALLEY, LARRY P	3	419296								
Michael			RAMOS, REFUGIO	3	435413								
			Castro										
Equipment													
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								
4/18/11	3	1.5											
TOTAL													
Total is the sum of each column separately													
Job Times													
Formation Name	Top	Bottom	Date	Time	Time Zone								
Formation Depth (MD)			18 - Apr - 2011	04:00	MST								
Form Type		BHST	18 - Apr - 2011	07:15	MST								
Job depth MD	1820. ft	Job Depth TVD	18 - Apr - 2011	08:22	MST								
Water Depth		Wk Ht Above Floor	18 - Apr - 2011	09:35	MST								
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	Bottom MD ft	Top TVD ft	Bottom TVD ft		
Open Hole				9.				408.	1820.				
Production Casing	Unknown		4.5	4.052	10.5		J-55		6908.				
Surface Casing	Unknown		8.625	8.097	24.		J-55		408.				
TUBING	Unknown		1.25	.671	3.02				1820.				
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 Fid			Conc		Inhibitor			Conc		Sand Type		Size	Qty

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	42.0	2.0						
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	42.0	2.0						
3	CalxFix III Water Spacer		10.00	bbl	8.33	.0	42.0	2.0						
59.525 gal/Mgal										CLAYFIX 3, TOTETANK (101583425)				
4	Surface Varicem 13#		107.0	sacks	13.	1.74	8.95	2.0	8.95					
8.95 Gal										FRESH WATER				
5	Surface Varicem 12#		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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Well Type: Development Well	Job Type: Recement Service		
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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 THROUGH JOB WEIGHT OF 12# CEMENT WAS BETWEEN 12# AND 12.4#

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Monday, April 18, 2011 09:45:00