

The Road to Excellence Starts with Safety

Sold To #: 304535		Ship To #: 2852426		Quote #:		Sales Order #: 8152096	
Customer: PDC ENERGY EBUS				Customer Rep: Sailors, Chad			
Well Name: Wells Ranch		Well #: 24-34		API/UWI #: 05-123-20981-00		State: Colorado	
Field: Wattenberg		City (SAP): KERSEY		County/Parish: Weld		Lat: N 40.438 deg. OR N 40 deg. 26 min. 15.202 secs. Long: W 104.426 deg. OR W -105 deg. 34 min. 27.984 secs.	
Contractor: BWS		Rig/Platform Name/Num: #2					
Job Purpose: Recement Service				Job Type: Recement Service			
Well Type: Development Well				Sales Person: PETERSON, ERIC			
Job Supervisor: LAYALLEY, LARRY				MBU ID Emp #: 419296			

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
LAYALLEY, LARRY P	3.5	419296	OZBUN, RYAN Jacob	3.5	475709	SIMS, DENNIS A	3.5
THOMPSON, STEVEN Darrin	3.5	445340	VIGIL, DANIEL Paul	3.5	471469	DOMINICK FRY	3.5

Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246062C	55 mile	10977079	55 mile	11488570C	55 mile	11518549	55 mile
11562544C	55 mile						

Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
5/4/11	4	2.5					
TOTAL							

Total is the sum of each column separately

Job Times							
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	04 - May - 2011	10:00	MST
Job depth MD	2832. ft		Job Depth TVD	2832. ft	Job Started	04 - May - 2011	10:45
Water Depth			Wk Ht Above Floor	6. ft	Job Completed	04 - May - 2011	13:00
Perforation Depth (MD)	From		To		Departed Loc	04 - May - 2011	13:30

Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
Open Hole			9.				411.
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		2707.

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	Conc	Surfactant	Conc	Acid Type	Qty	Conc
Treatment Fld	Conc	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	.0	2.0			
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	.0	2.0			
3	CalyFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0			
59.525 gal/Mgal			CLAYFIX 3, TOTETANK (101583425)								
4	Varicem B1 12#	VARICEM (TM) CEMENT (452009)	455.0	sacks	12.	2.18	12.34	2.0	12.34		
12.34 Gal			FRESH WATER								
Calculated Values			Pressures		Volumes						
Displacement	2.5	Shut In: Instant	Lost Returns		Cement Slurry	161	Pad				
Top Of Cement		5 Min	Cement Returns	8	Actual Displacement	2.5	Treatment				
Frac Gradient		15 Min	Spacers		Load and Breakdown		Total Job				
Circulating			Rates								
Cement Left In Pipe	Mixing	0 ft	Reason	Shoe Joint	Displacement	Avg. Job					
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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Job Purpose: Recement Service		Job Type: Recement Service	
Well Type: Development Well		Srvc Supervisor: LAVALLEY, LARRY	
Sales Person: PETERSON, ERIC		MBU ID Emp #: 419296	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments
Start Job	05/04/2011 10:47					WELL CIRCULATED 1 HOUR PRIOR TO CEMENTING
Test Lines	05/04/2011 10:48				3727.0	TEST LINES WITH RIG WATER
Pump Spacer 1	05/04/2011 10:54	2	10	10	743.0	RIG WATER WITH CLAYEIX III
Pump Spacer 2	05/04/2011 11:02	2	12	22	1157.0	RIG WATER WITH MUDDFLUSH III
Pump Lead Cement	05/04/2011 11:08	2	108	130	1496.0	280 SKS VARICEM 12.0 PPG MIXED WITH RIG WATER
Pump Displacement	05/04/2011 12:02	2	1.5	131.5	1988.0	RIG WATER
Shutdown	05/04/2011 12:03					SHUTDOWN WHILE RIG PULLED 55 STANDS
Pump Tail Cement	05/04/2011 12:32	2	53	184.5	56.0	175 SKS VARICEM 13 PPG MIXED WITH RIG WATER
Pump Displacement	05/04/2011 12:59	2	1	185.5	1142.0	RIG WATER GOT 8 BBLS CEMENT BACK TO SURFACE.
End Job	05/04/2011 13:00					