

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2366415	Quote #:	Sales Order #: 9037223
Customer: PDC ENERGY EBUS	Well #: 24-12	Customer Rep:	
Well Name: Schrant	City (SAP): LUCERNE	County/Parish: Weld	API/UWI #:
Field: Wattenberg	Job Purpose: Recement Service	Job Type: Recement Service	State: Colorado
Sales Person: FLING, MATTHEW	Svc Supervisor: ROSALES, MATTHEW	MBU ID Emp #: 392095	

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
CHAVEZ, JEROME	4.5	458298	CONGDON, RICHARD S.	4.5	320306	FLYNN, SHAD Michael	4.5
Christophe			ROSALES, MATTHEW	4.5	392095		
KUNERT, RANDY	4.5	477850	John				
Joe							

Equipment							
HES Unit #	Distance-1 way						
10866493C	45 mile	11019275C	45 mile	11488570C	45 mile	11605598	45 mile

Job Hours								
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	
11/03/11	4.5	2.15						
TOTAL			<i>Total is the sum of each column separately</i>					

Job Times							
Formation Name	Top	Bottom	Date	Time	Time Zone		
Formation Depth (MD)			03 - Nov - 2011	07:00	MST		
Form Type	BHST		03 - Nov - 2011	11:00	MST		
Job depth MD	2730. ft	Job Depth TVD	03 - Nov - 2011	12:00	MST		
Water Depth		Wk Ht Above Floor	03 - Nov - 2011	14:15	MST		
Perforation Depth (MD)	From	To	03 - Nov - 2011	15:30	MST		

Well Data											
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbn/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Open Hole			4.5	9.	10.5		J-55	407.	2730.		
Production Casing	Unknow ⁿ		4.5	4.052	10.5		J-55		2730.		
Surface Casing	Unknow ⁿ		8.625	8.097	24.		J-55		407.		
TUBING	Unknow ⁿ		1.25	.671	3.02				2730.		

Tools and Accessories											
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size
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											
Treatment Fld	Conc	Conc	Surfactant	Inhibitor	Conc	Conc	Acid Type	Sand Type	Qty	Size	Conc %

Fluid Data											
Stage/Plug #:	1	Fluid Name	Qty	Qty uom	Mixing Density lbn/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		
Fluid #	Stage Type										

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	CalFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal CLAYFIX 3, TOTETANK (101583425)									
4	Varicem 12.0#	VARICEM (TM) CEMENT (452009)	265.0	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal FRESH WATER									
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	175.0	sacks	13.	1.71	8.84	2.0	8.84
8.84 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		
The Information Stated Herein Is Correct						Customer Representative Signature			

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Well Name: Schrant	City (SAP): LUCERNE	County/Parish: Weld	State: Colorado
Field: Wattenberg	Well #:	County/Parish: Weld	State: Colorado
Legal Description:	Long:		
Lat:	Rig/Platform Name/Num:	Ticket Amount:	
Contractor:	Job Purpose: Recement Service		
Job Purpose: Recement Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Svc Supervisor: ROSALES, MATTHEW/MBU ID Emp #: 392095		

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments
				Stage Total	Tubing Casing	
Arrive at Location from Other Job or Site	11/03/2011 10:30					
Assessment Of Location Safety Meeting	11/03/2011 10:35					Conducted Hazard Hunt. lcy, Ruttid Location
Pre-Job Safety Meeting	11/03/2011 11:50					Conducted Safety Meeting with all Third party personell on Location
Test Lines	11/03/2011 12:03					
Start Job	11/03/2011 12:03					
Pump Spacer 1	11/03/2011 12:05	2		10	10	1700.0 Water w/Clayfix
Pump Spacer 2	11/03/2011 12:11	2		12	22	1690.0 Mudflush
Pump Spacer 1	11/03/2011 12:16	2		10	32	1750.0 Water w/Clayfix
Pump Lead Cement	11/03/2011 12:21	2		103	135	2000.0 265sks, 577.7cuft, 2.18cuft/sk, 12.34gal/sk, 12#gal, Mixed with water provided by PDC
Pump Displacement	11/03/2011 13:14	2		1.5	136.5	1980.0 Water Displace
Wait on Customer or Customer Sub-Contractor Equip	11/03/2011 13:15					Pull tubing out of hole to 1050'
Pump Tail Cement	11/03/2011 13:48	2.5		53	189.5	1300.0 175sks, 299.2cuft, 1.71cuft/sk, 8.84gal/sk, 13#gal, Mixed with water provided by PDC
Pump Displacement	11/03/2011 14:13	2.5		1	190.5	700.0 Water Displace
End Job	11/03/2011 14:15					

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Thursday, November 03, 2011 02:40:00