

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2901834	Quote #:	Sales Order #: 9198980
Customer: PDC ENERGY EBUS		Customer Rep: SAILORS, CHAD	

Well Name: Skurich-Roth	Well #: #6D	API/UWI #: 05-123-20247
Field: Wattenberg	City (SAP): KERSEY	County/Parish: Weld
		State: Colorado

Job Purpose: Recement Service

Well Type: Development Well Job Type: Recement Service

Sales Person: FLING, MATTHEW Srvc Supervisor: KELEHER, JASON MBU ID Emp #: 437348

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HALE, ROBERT E	5.5	470588	HOLLOWAY, DUSTIN Craig	5.5	504032	KELEHER, JASON E	5.5	437348
MARKOVICH, STEVEN Michael	5.5	502964	MCKAY, ADAM	5.5	498253	MEADOWS, DANIEL Graham	5.5	500668
OTERI, VAUGHN Steeves	5.5	443828	SINCLAIR, RICHARD	5.5	368195			

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10547939	50 mile	10822531C	50 mile	10866493C	50 mile	10982754C	50 mile
11019275C	50 mile	11036301	50 mile	11341988C	50 mile	11518548	50 mile
11633846C	50 mile	11764054C	50 mile				

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1-11-12	5.5	3						

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top		Bottom	Called Out	11 - Jan - 2012	06:00	MST
Form Type		BHST		On Location	11 - Jan - 2012	11:30	MST
Job depth MD	3440. ft	Job Depth TVD	3440. ft	Job Started	11 - Jan - 2012	12:56	MST
Water Depth		Wk Ht Above Floor		Job Completed	11 - Jan - 2012	16:12	MST
Perforation Depth (MD)	From	To		Departed Loc	11 - Jan - 2012	17:00	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				12.				408.	3800.	.	.
Production Casing	Used		4.5	4.052	10.5		J-55	.	8450.		
Surface Casing	Used		8.625	8.097	24.		J-55	.	408.		
TUBING	Unknown		1.25	.671	3.02			.	3440.		

## 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 Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

## Fluid Data

Stage/Plug #: 1									
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	ClayWeb 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	ClayWeb Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal		CLA-WEB - TOTE (101985045)							
4	Surface Varicem 13#	VARICEM (TM) CEMENT (452009)	595.0	sacks	13.	1.71	8.84	2.0	8.84
8.84 Gal		FRESH WATER							
5	Varicem 12#	VARICEM (TM) CEMENT (452009)	167.0	sacks	12.	2.18	12.34		12.34
12.34 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	1	Shut In: Instant		Lost Returns	N	Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	Y	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: Skurich-Roth		Well #: #6D	API/UWI #: 05-123-20247
Field: Wattenberg	City (SAP): KERSEY	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:	
Job Purpose: Recement Service			Ticket Amount:
Well Type: Development Well		Job Type: Recement Service	
Sales Person: FLING, MATTHEW		Srvc Supervisor: KELEHER, JASON	MBU ID Emp #: 437348

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	01/11/2012 11:30							
Assessment Of Location Safety Meeting	01/11/2012 11:45							
Test Lines	01/11/2012 12:56							PRESSURE TEST TO 3500 PSI
Pump Spacer 1	01/11/2012 12:59		2	10			1703.0	RIG WATER WITH CLAYWEB ADDED
Pump Spacer 2	01/11/2012 13:05		2	12			1696.0	MUDFLUSH III MIXED IN RIG WATER
Pump Spacer 1	01/11/2012 13:11		2	10			1631.0	RIG WATER WITH CLAYWEB ADDED
Pump Cement	01/11/2012 13:16		2	67			2131.0	220 SKS SURFACE VARICEM B1 MIXED AT 13.0 PPG WITH RIG WATER
Pump Displacement	01/11/2012 13:48		2	1			1831.0	RIG WATER
Shutdown	01/11/2012 13:49							RIG TO PULL 15 JOINTS
Pump Cement	01/11/2012 14:05		2	114			2183.0	375 SKS SURFACE VARICEM B1 MIXED AT 13.0 PPG WITH RIG WATER
Pump Displacement	01/11/2012 15:07		1	1			926.0	RIG WATER
Shutdown	01/11/2012 15:08							RIG TO PULL JOINTS OUT
Pump Cement	01/11/2012 15:33		2	70			1475.0	167 SKS SURFACE VARICEM MIXED AT 12.0 PPG WITH RIG WATER
Pump Displacement	01/11/2012 16:11		2	1			1592.0	RIG WATER

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	01/11/2012 16:12							GOOD RETURNS THROUGHOUT JOB. AT 11BBLs AWAY IN LAST STAGE CEMENT BACK TO SURFACE.
End Job	01/11/2012 16:12							RIG CREW GAVE OUR CREW WRONG LINE TO WASH UP TO AND WE PUMPED 4 BBL DIRTY CEMENT WATER. SPOKE WITH COMPANY MAN AND SAID IT WAS OK.

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QUANTITY: 70.010

WEIGHT: 11.00000000