C&J ENERGY SERVICES

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.

Company PDC Energy
Well Hoshiko 42-17
Field Wattenberg
County Weld
State CO

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Field Wattenberg
County Weld **State** CO

Location: API # : 05-123-20222

1980' FNL & 662' FEL
SE / NE
SEC 17 TWP 5N RGE 64W

Other Services

Permanent Datum	G.L.	Elevation	4613'
Log Measured From	K.B.		
Drilling Measured From	K.B.		

Elevation
K.B. 4623'
D.F. 4622'
G.L. 4613'

Date	December 19, 2019		
Run Number	1		
Depth Driller	7033'		
Depth Logger	1600'		
Bottom Logged Interval	1600'-0'		
Top Log Interval			
Casing Size	4.5"		
Type Fluid	Water		
Max. Recorded Temp.			
Estimated Cement Top			
Time Well Ready			
Time Logger On Bottom			
Unit Number	200100		
Tool Size / ID Number	2-3/4" Radii		
Location	WCRs53+58,W3/10,S4/10,Winto		
Recorded By	Meisner		
Witnessed By	Bud Holman		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4.5"			
Liner				

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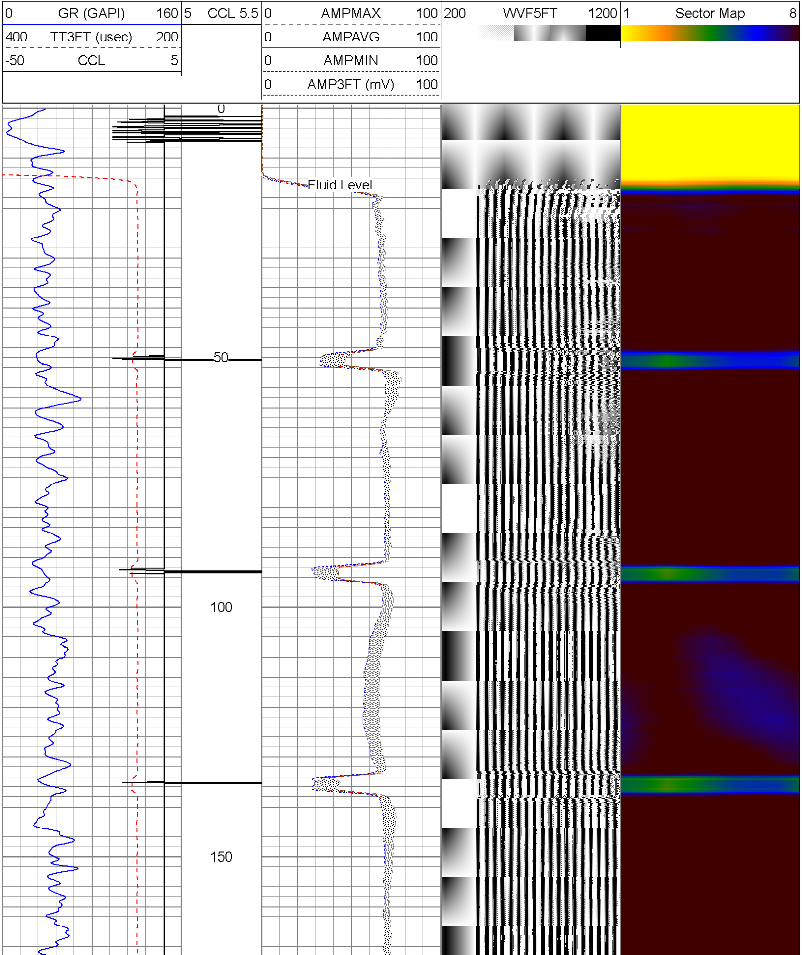
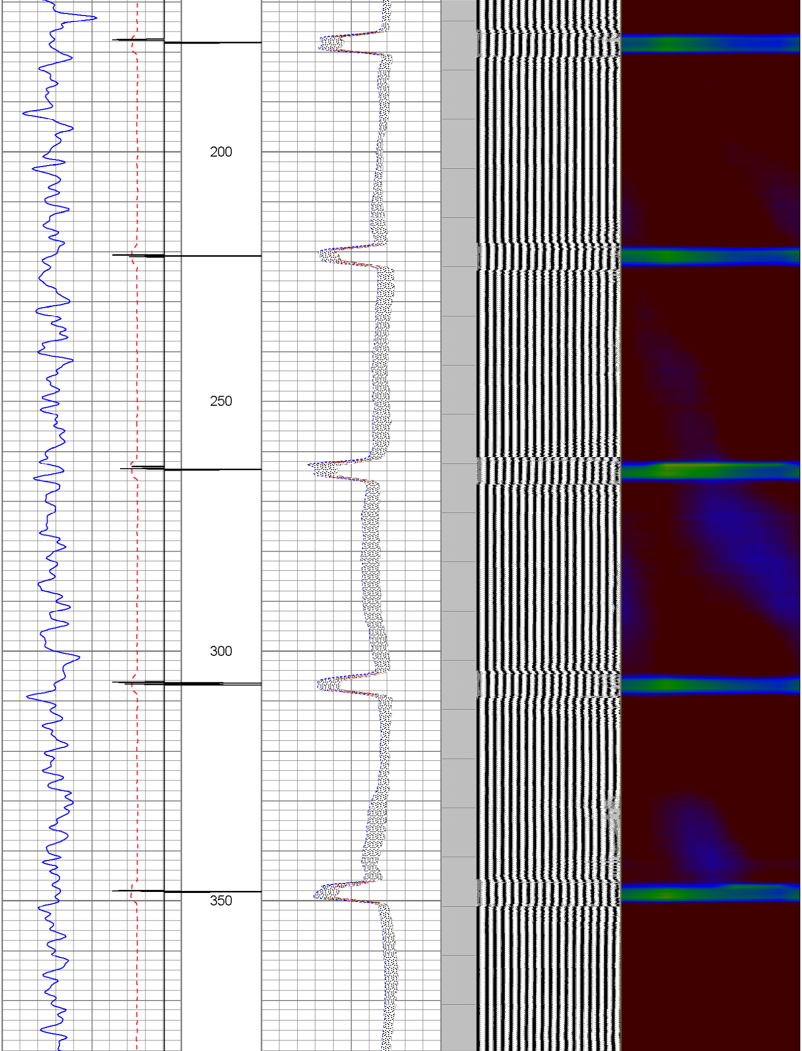
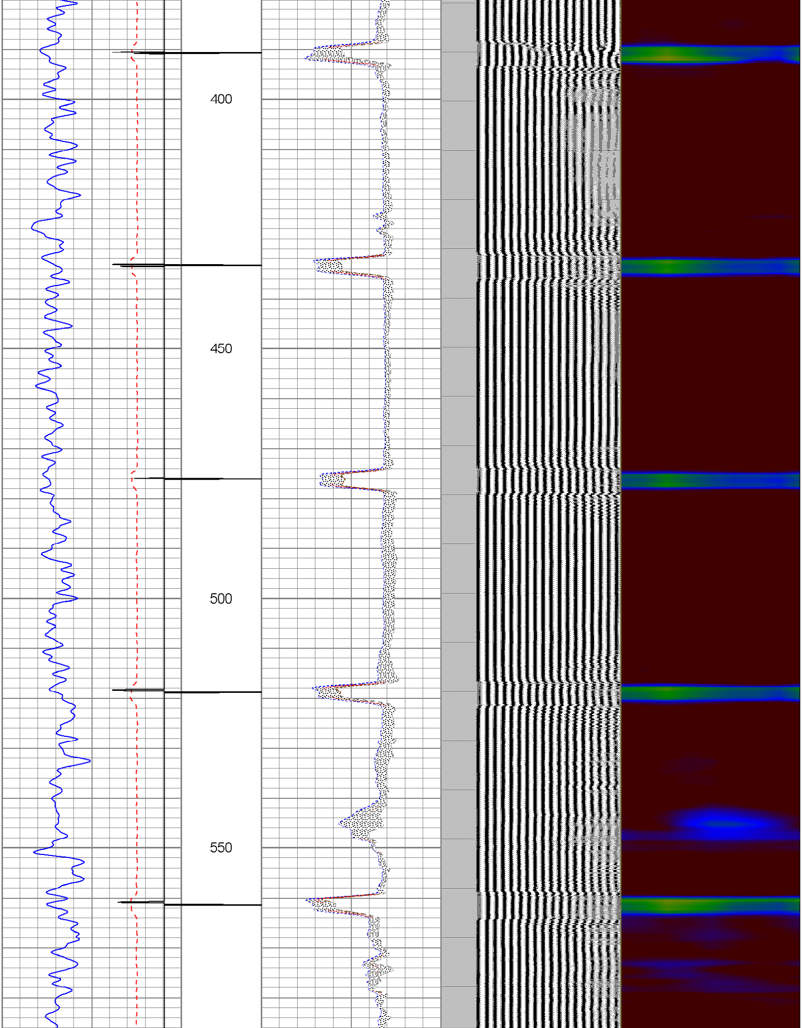
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

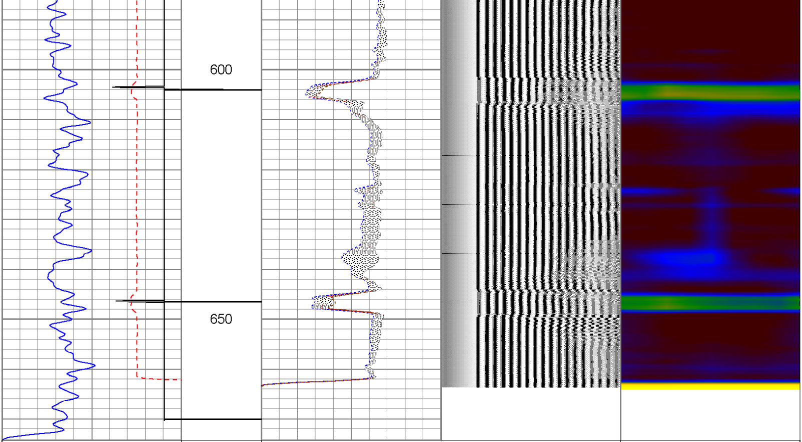
Comments

Database File:	pdch4217.db
Dataset Pathname:	pass2
Presentation Format:	sector2
Dataset Creation:	Thu Dec 19 14:01:47 2019 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240



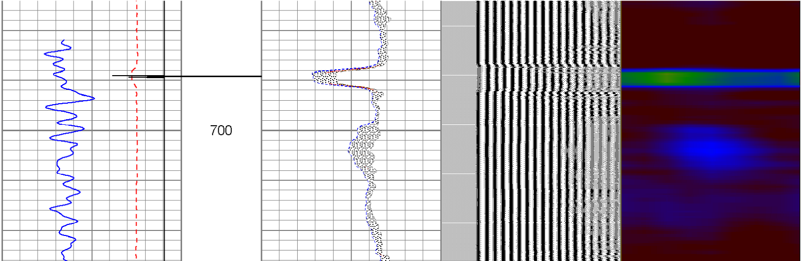
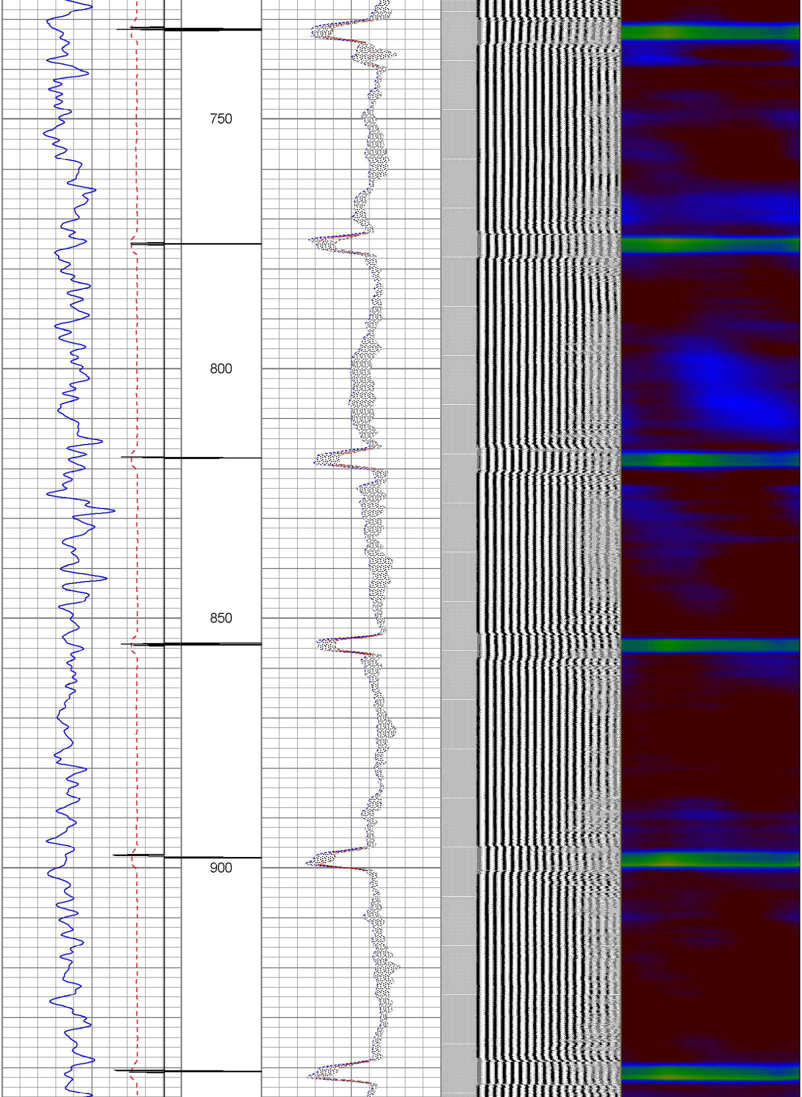
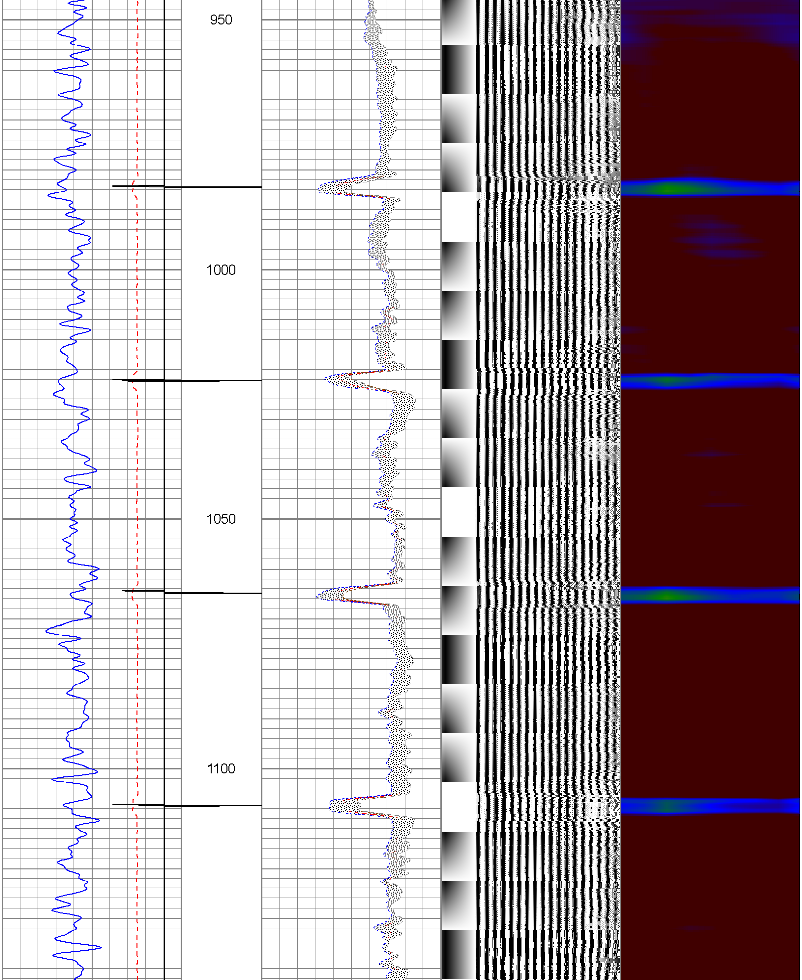
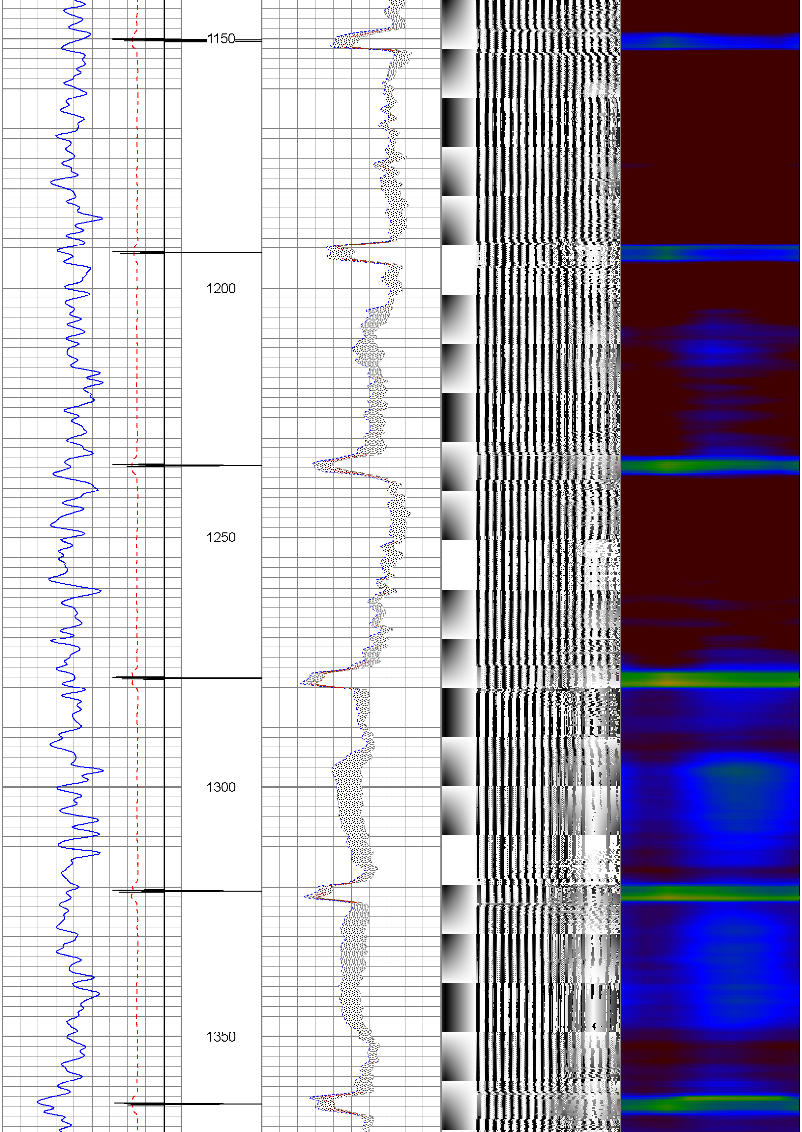
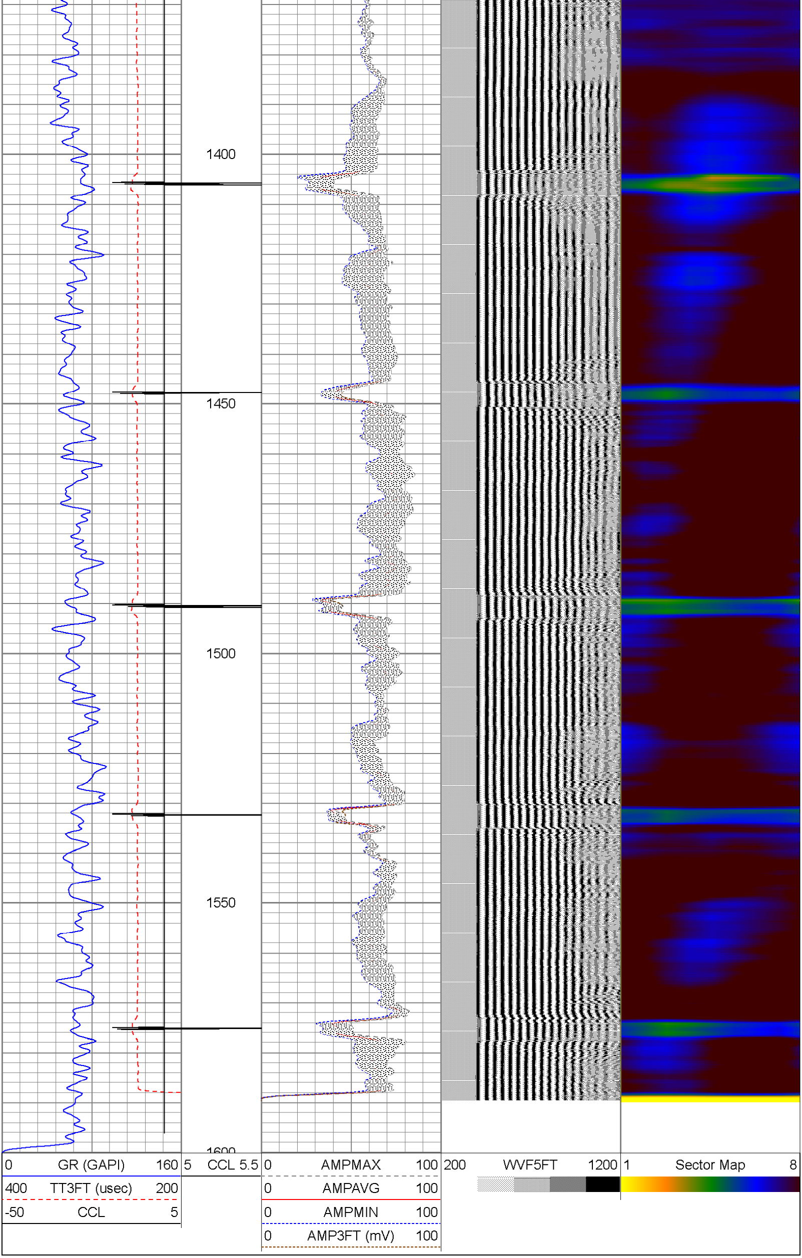






0 GR (GAPI) 160	5 CCL 5.5	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200		0 AMPAVG 100		
-50 CCL 5		0 AMPMIN 100		
		0 AMP3FT (mV) 100		

Database File: pdch4217.db
Dataset Pathname: pass1
Presentation Format: sector2
Dataset Creation: Thu Dec 19 13:50:57 2019 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 160	5 CCL 5.5	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
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