Company	PDC Energy
Well	Blanca 3N
Field	Wattenberg
County	Weld
State	CO

C&J ENERGY SERVICES

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

Company	PDC Energy		
Well	Blanca 3N		
Field	Wattenberg		
County	Weld	State	CO
Location:	API #: 05-123-46306 2631' FNL & 2354' FWL SE / NW		Other Services
	SEC 29 TWP 5N RGE 64W		
Permanent Datum	GL	Elevation 4689'	Elevation
Log Measured From	GL		K.B.
Drilling Measured From	KB		D.F. G.L. 4689'

Date	September 11, 2018
Run Number	1
Depth Driller	15,188'
Depth Logger	6900'
Bottom Logged Interval	6900'-0'
Top Log Interval	
Casing Size	
Type Fluid	WATER
Max. Recorded Temp.	240° F
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	923856
Tool Size / ID Number	2-3/4" Probe Radii
Location	WCRs54+51,S3/10,E1/2,Simto
Recorded By	Meisner
Witnessed By	Gardella

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	5.5"			
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

Blanca 15 Well Pad

<WEST> O O O O O O O O O O O O X O O <EAST>

X = Blanca 3N

Database File:	pdcb3n.db
Dataset Pathname:	pass2
Presentation Format:	sector2
Dataset Creation:	Tue Sep 11 10:48:27 2018 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

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

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

Database File:	pdcb3n.db
Dataset Pathname:	pass1
Presentation Format:	sector2
Dataset Creation:	Tue Sep 11 10:15:36 2018 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

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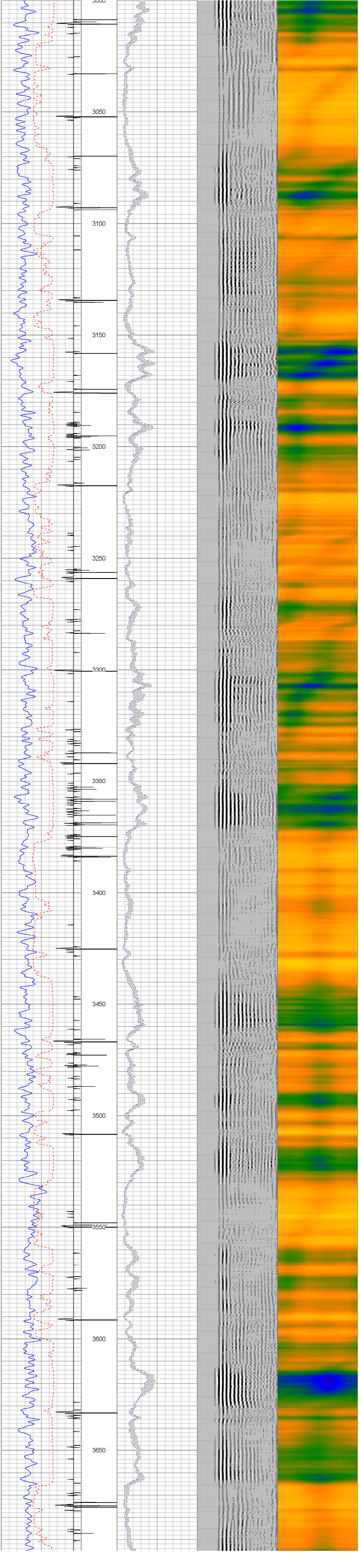

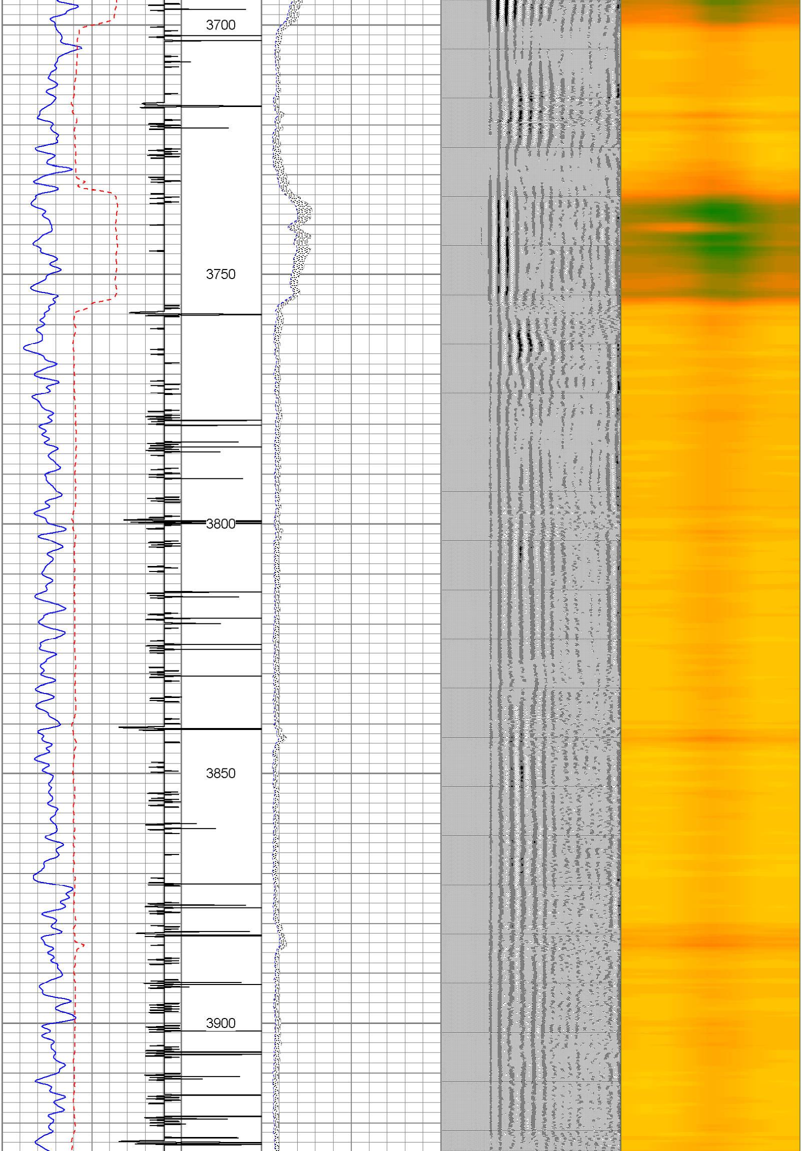
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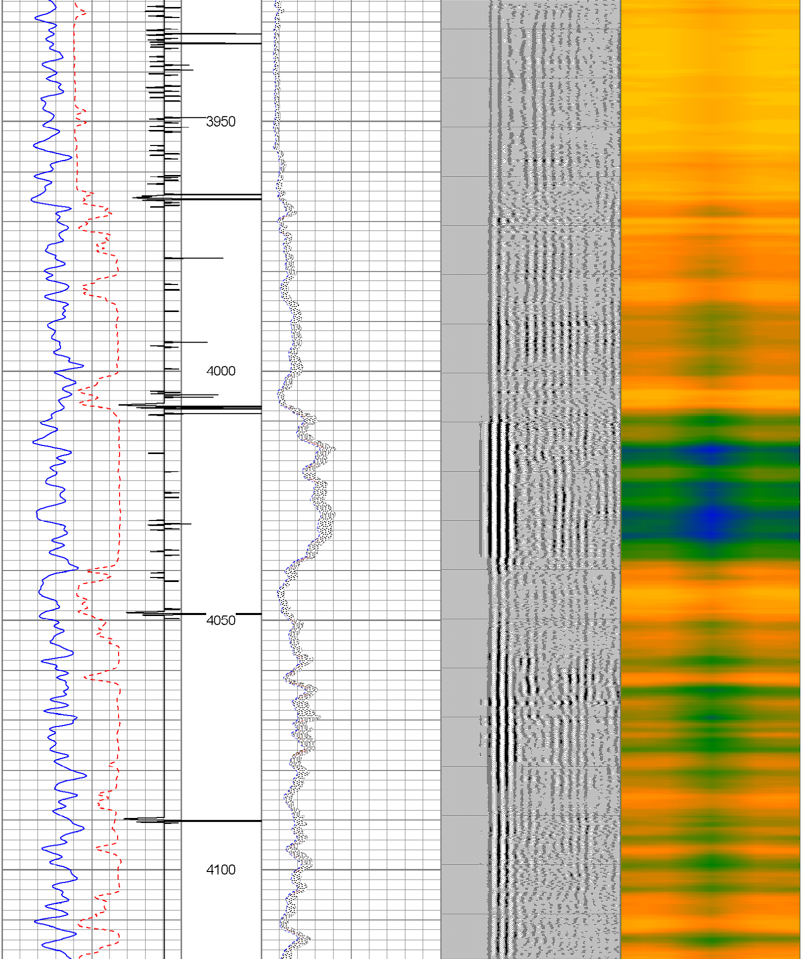
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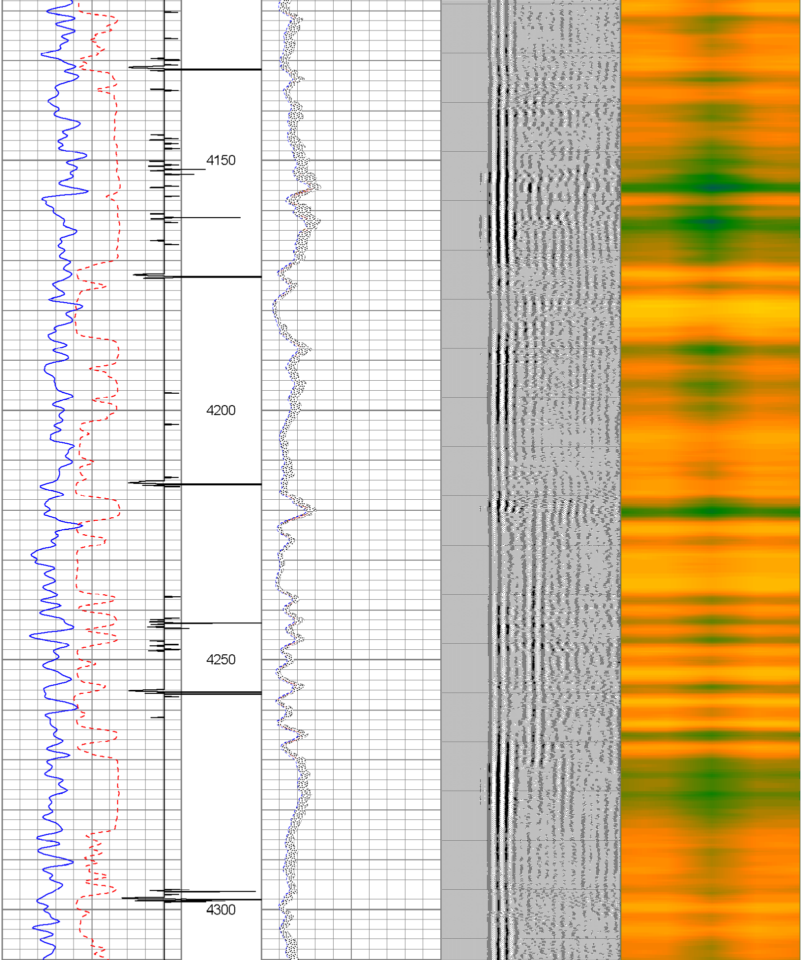
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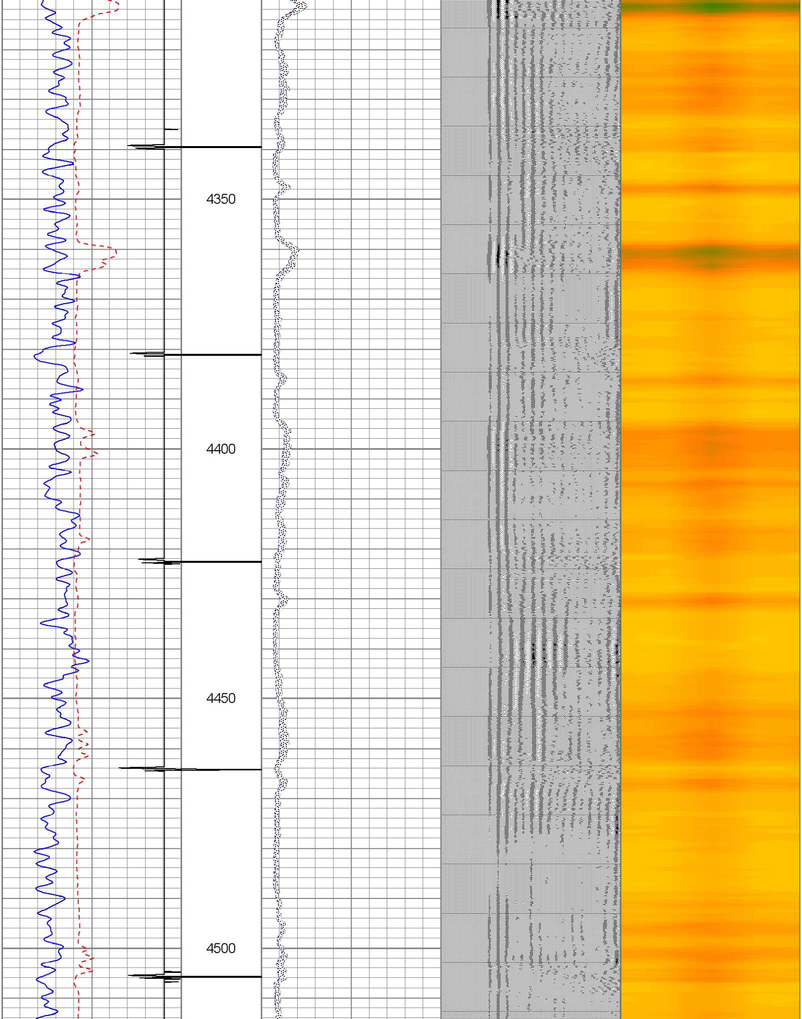
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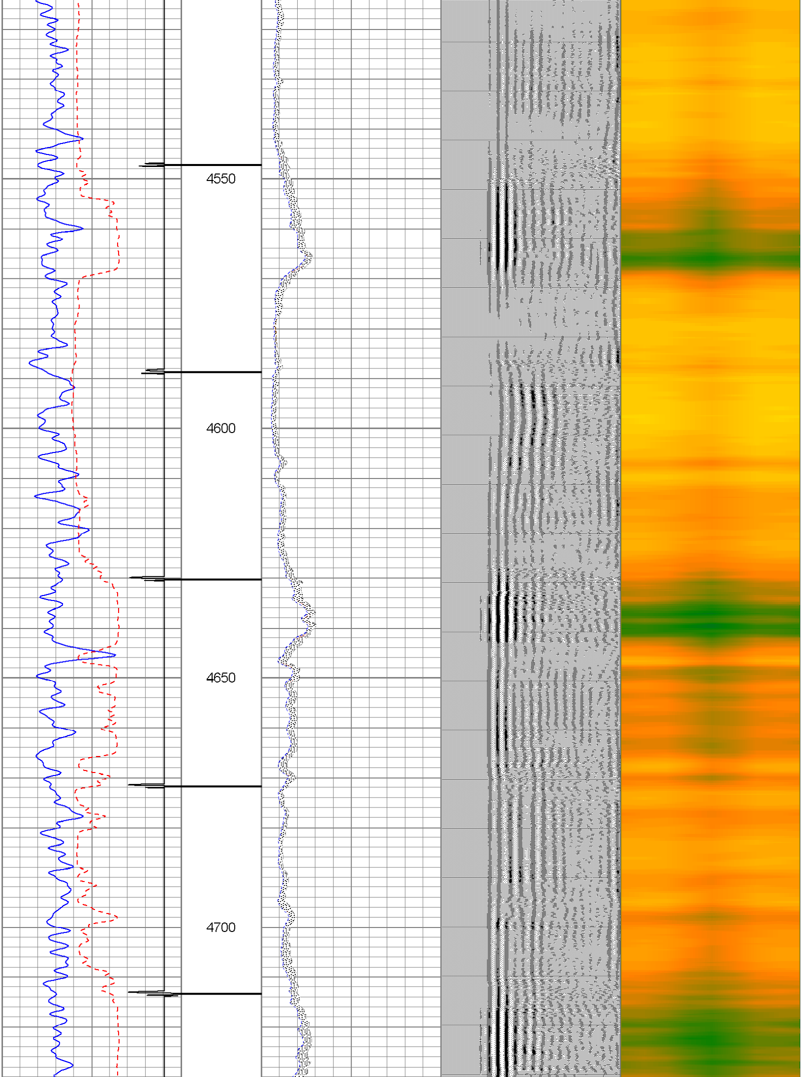
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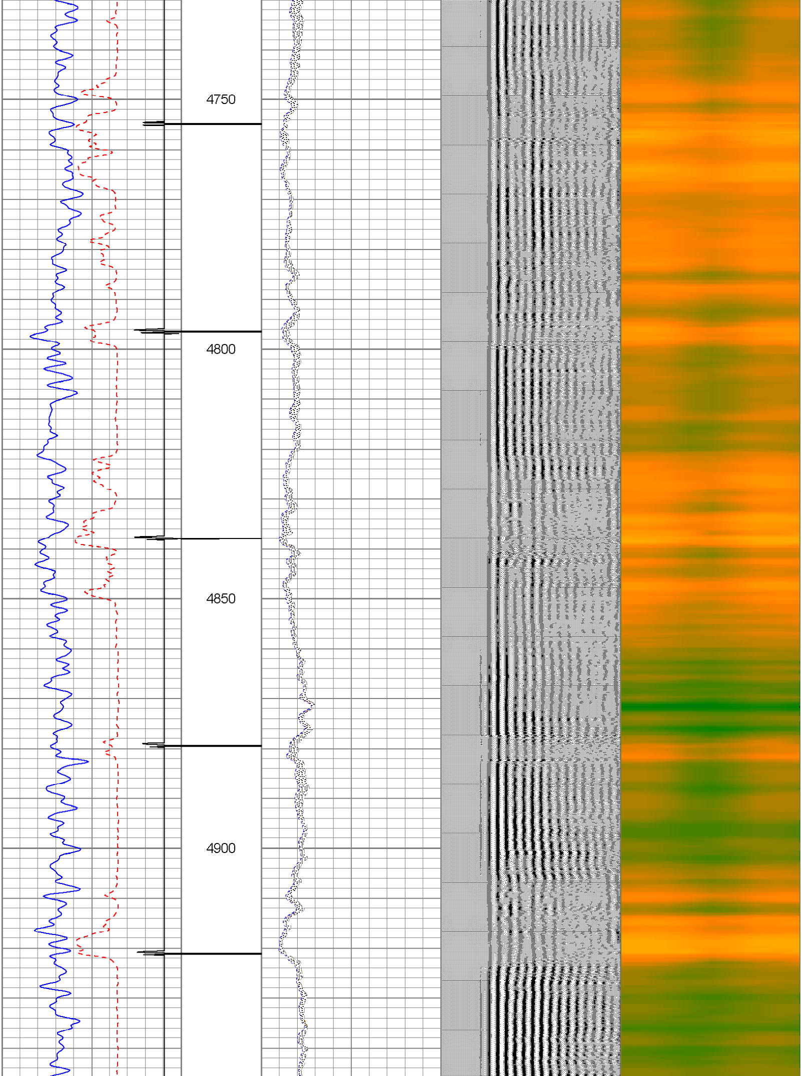
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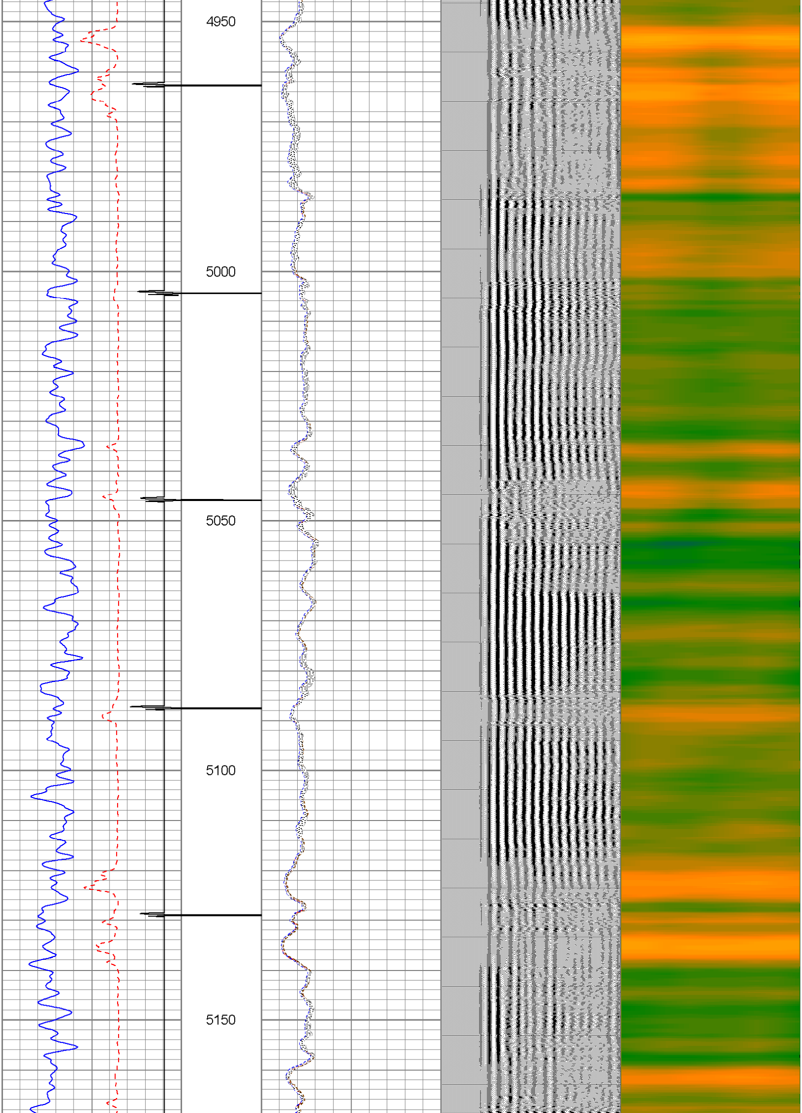
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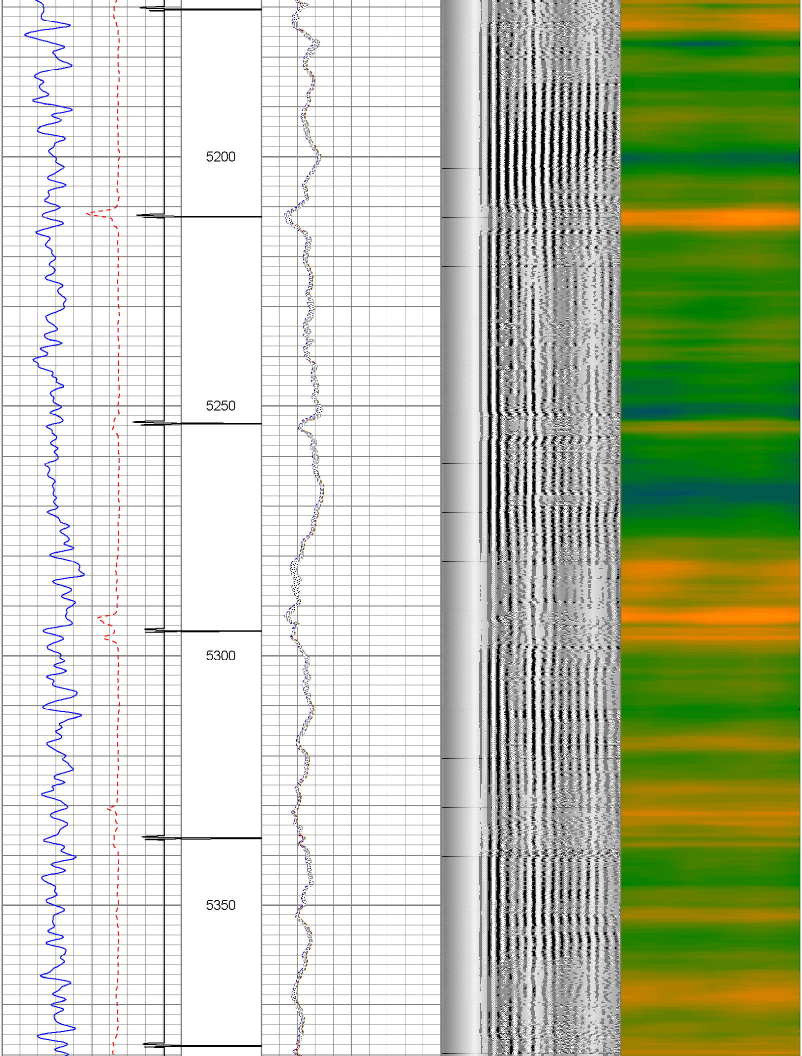
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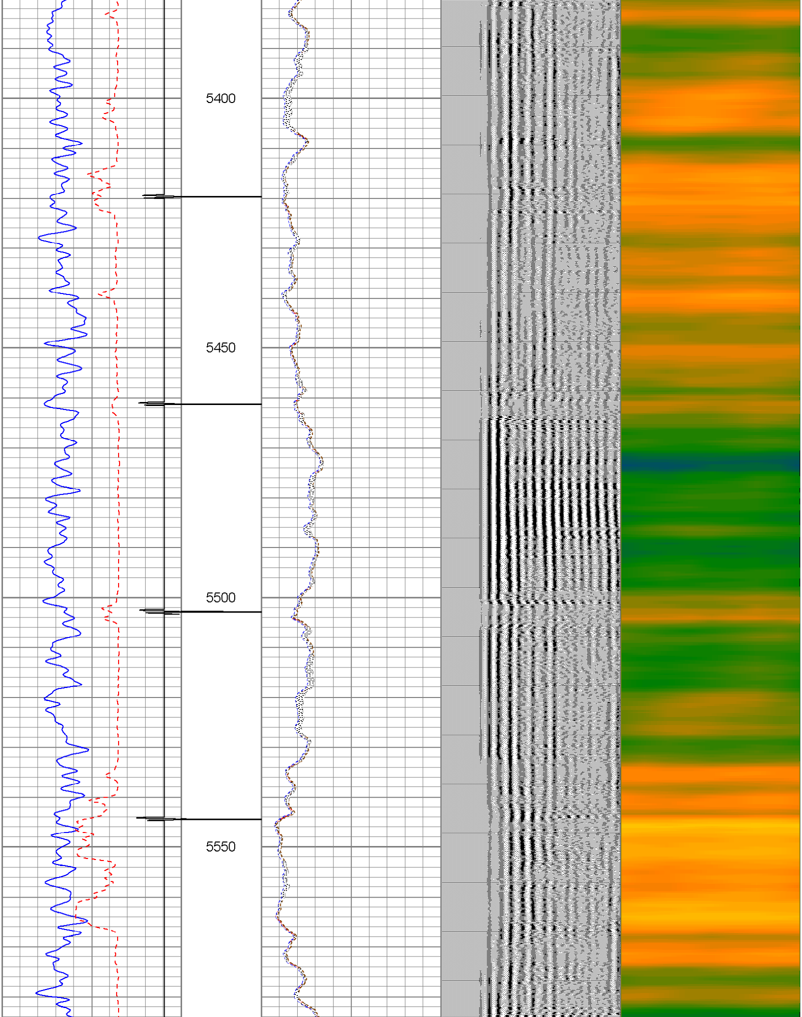
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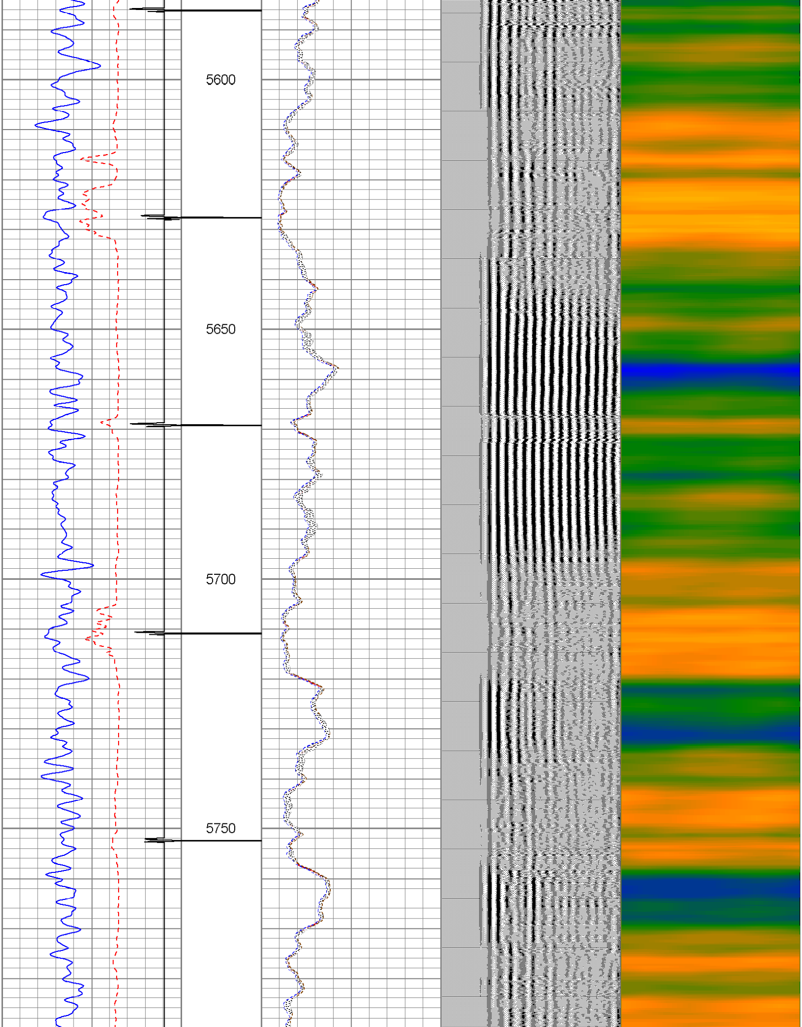
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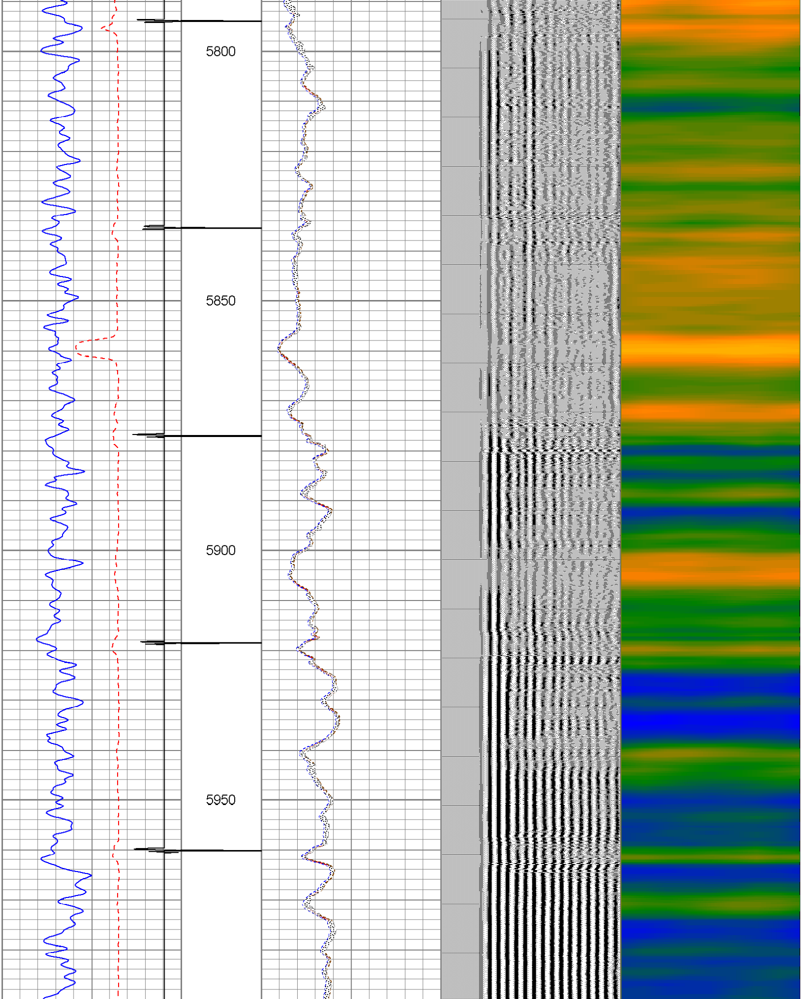
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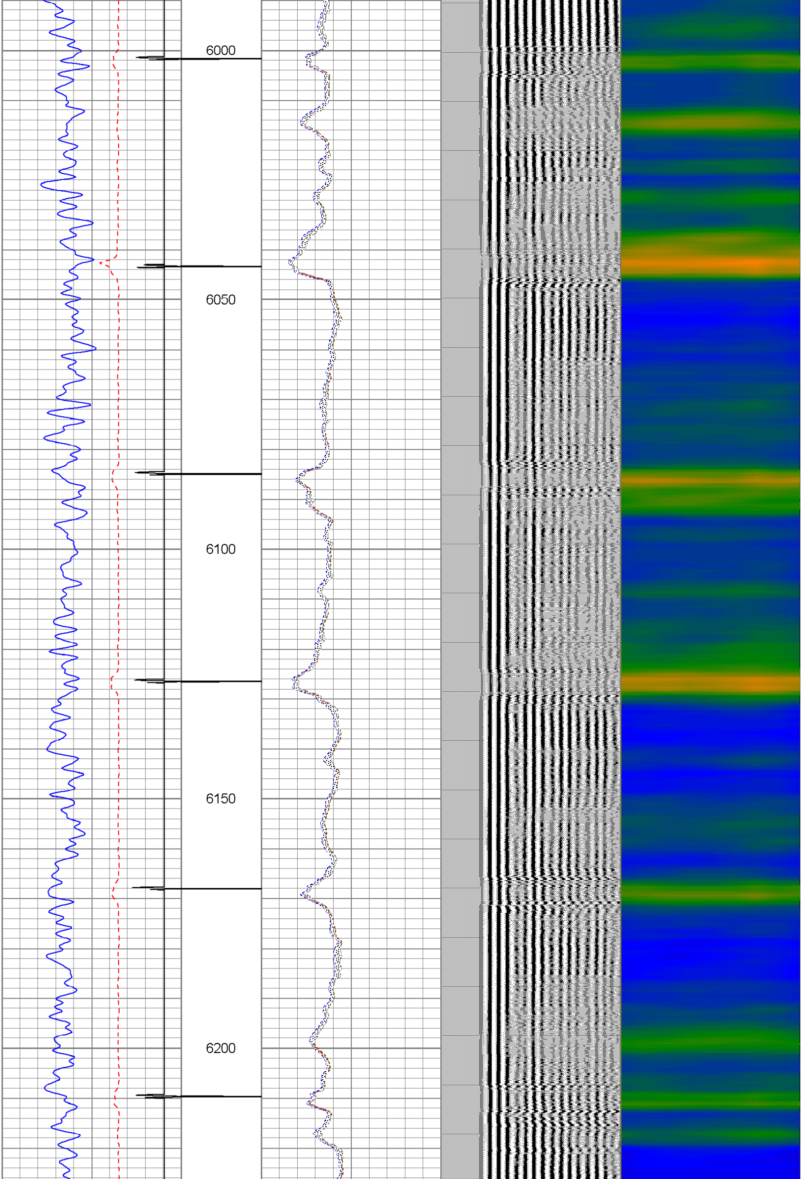
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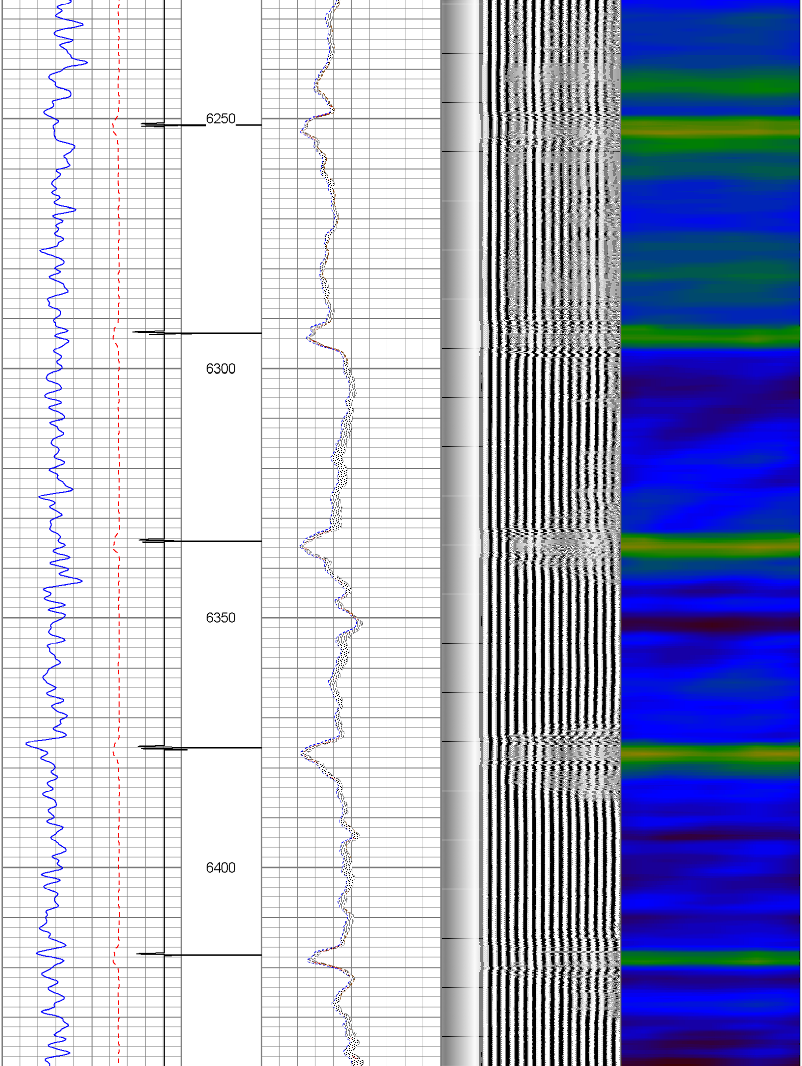
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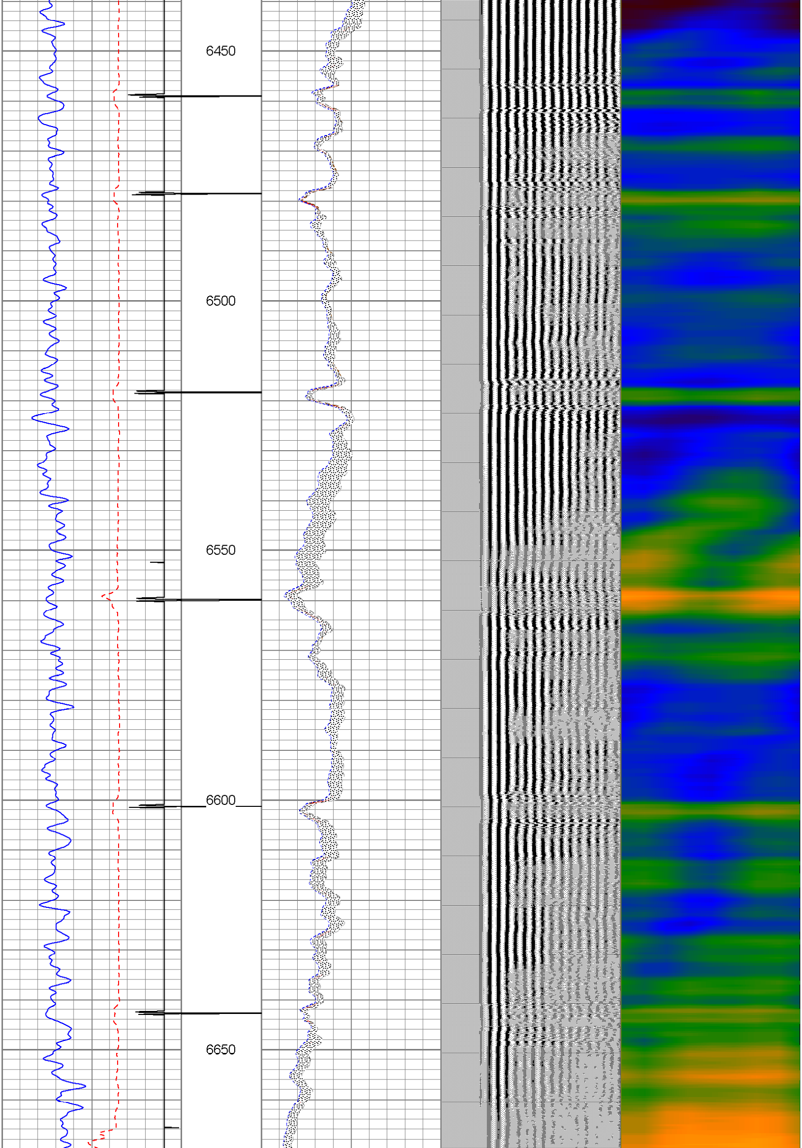
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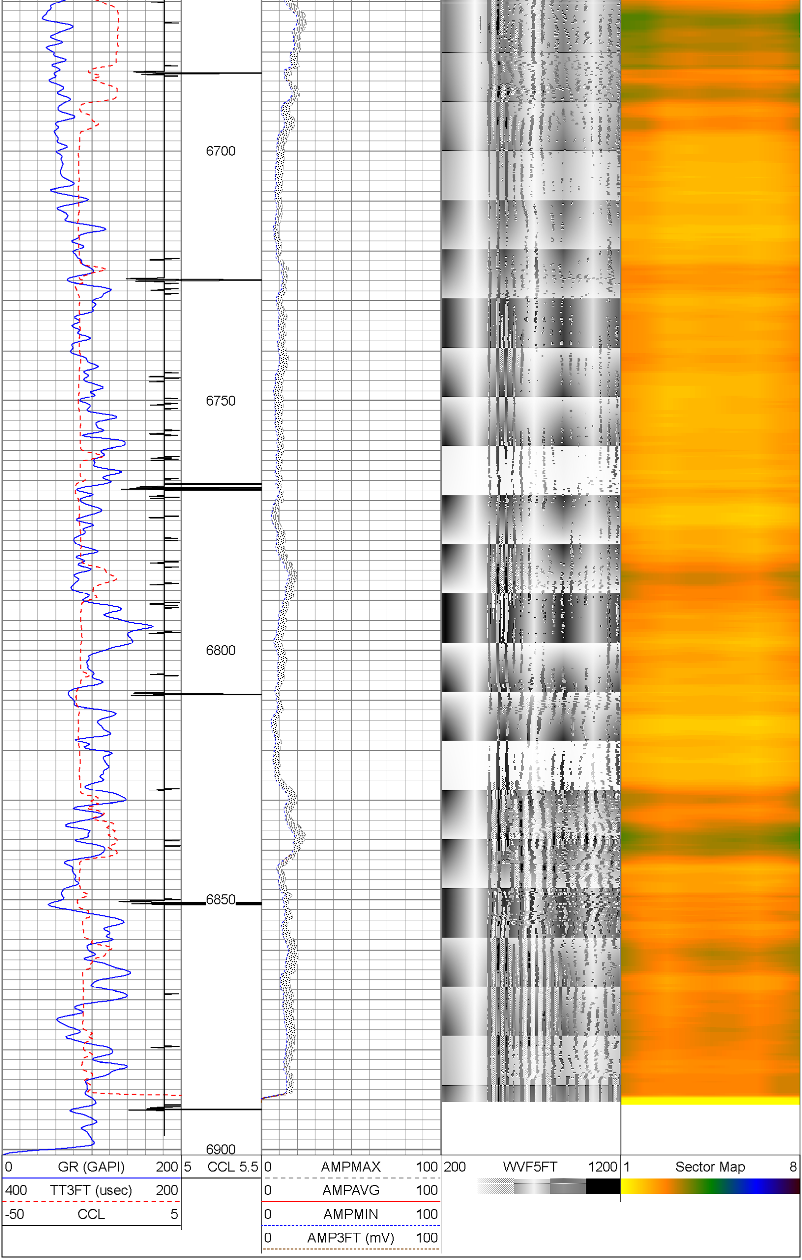
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-50 CCL 5
5 CCL 5.5
0 AMPMAX 100
0 AMPAVG 100
0 AMPMIN 100
0 AMP3FT (mV) 100
200 WVF5FT 1200
1 Sector Map 8