Casedhole Solutions

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

Company PDC Energy
Well Elbert 4N
Field Wattenberg
County Weld State CO

Location: API #: 05-123-44329
2164' FSL & 710' FWL
NW / SW
SEC 21 TWP 5N RGE 65W

Other Services

Permanent Datum GL Elevation 4638'
Log Measured From GL
Drilling Measured From KB

Elevation
K.B.
D.F.
G.L. 4638'

Company	PDC Energy
Well	Elbert 4N
Field	Wattenberg
County	Weld
State	CO

Date	September 11, 2017
Run Number	1
Depth Driller	17,174'
Depth Logger	7000'
Bottom Logged Interval	7000'-0'
Top Log Interval	
Casing Size	
Type Fluid	WATER
Max. Recorded Temp.	N/A
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	923856
Tool Size / ID Number	2-3/4" Probe Radii
Location	37thAVE&1stSTR,N4/10,Einto
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

Elbert 12 Well Pad

<NORTH> O O O X O O O O O O O O <SOUTH>

X = Elbert 4N

Database File: pdce4n.db
Dataset Pathname: pass2
Presentation Format: sector2
Dataset Creation: Mon Sep 11 19:35:27 2017 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	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					

0	GR (GAPI)	200	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: pdce4n.db
Dataset Pathname: pass1
Presentation Format: sector2
Dataset Creation: Mon Sep 11 18:57:50 2017 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

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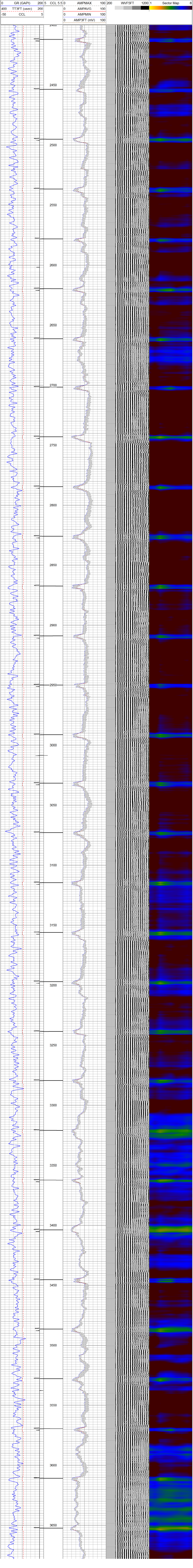
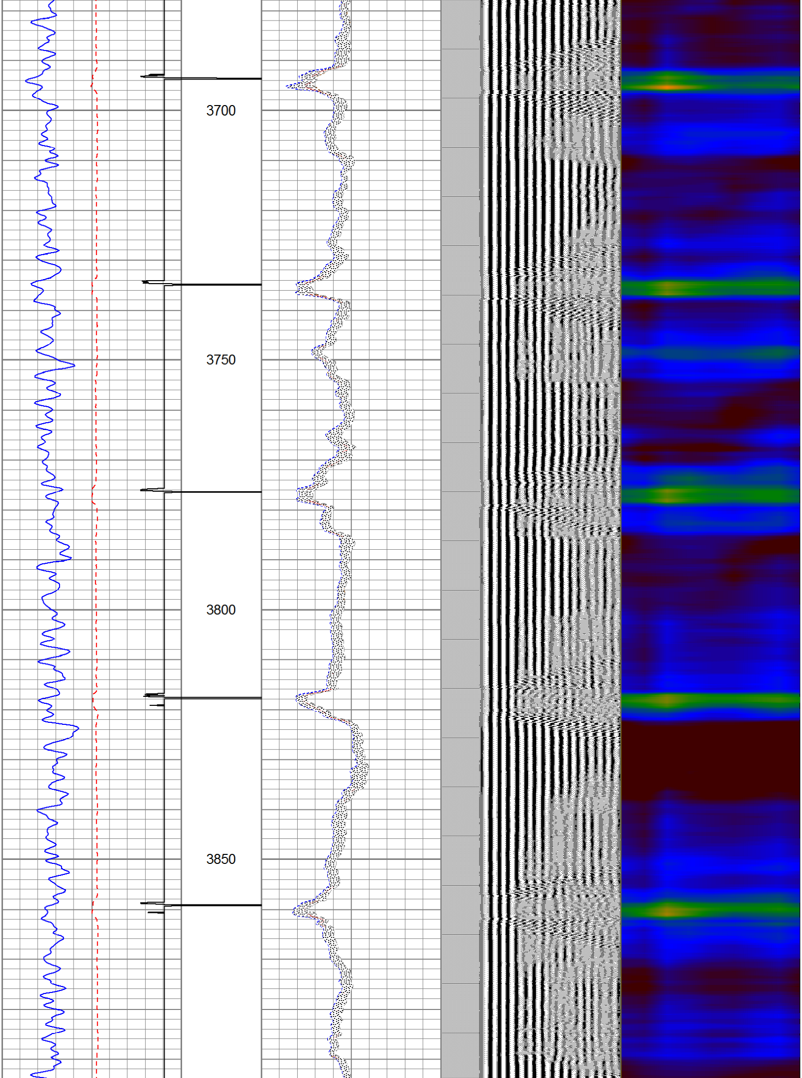
400	TT3FT (usec)	200		0	AMPAVG	100					
-50	CCL	5		0	AMPMIN	100					
				0	AMP3FT (mV)	100					

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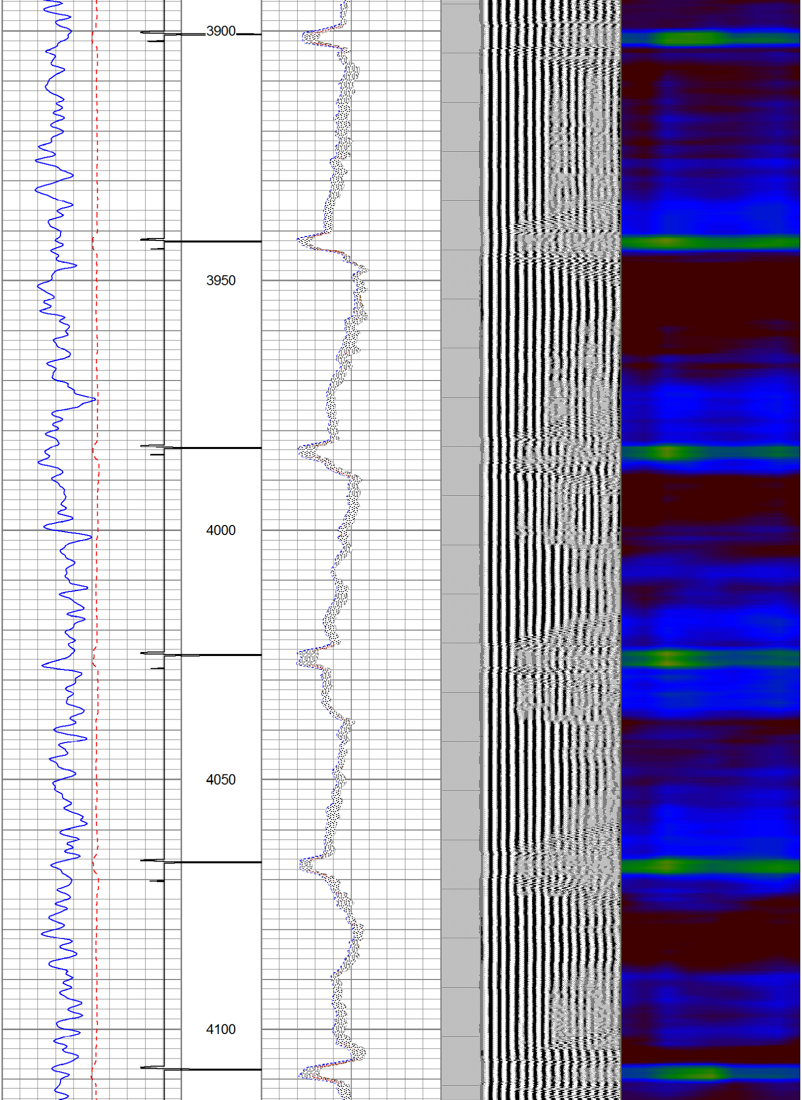
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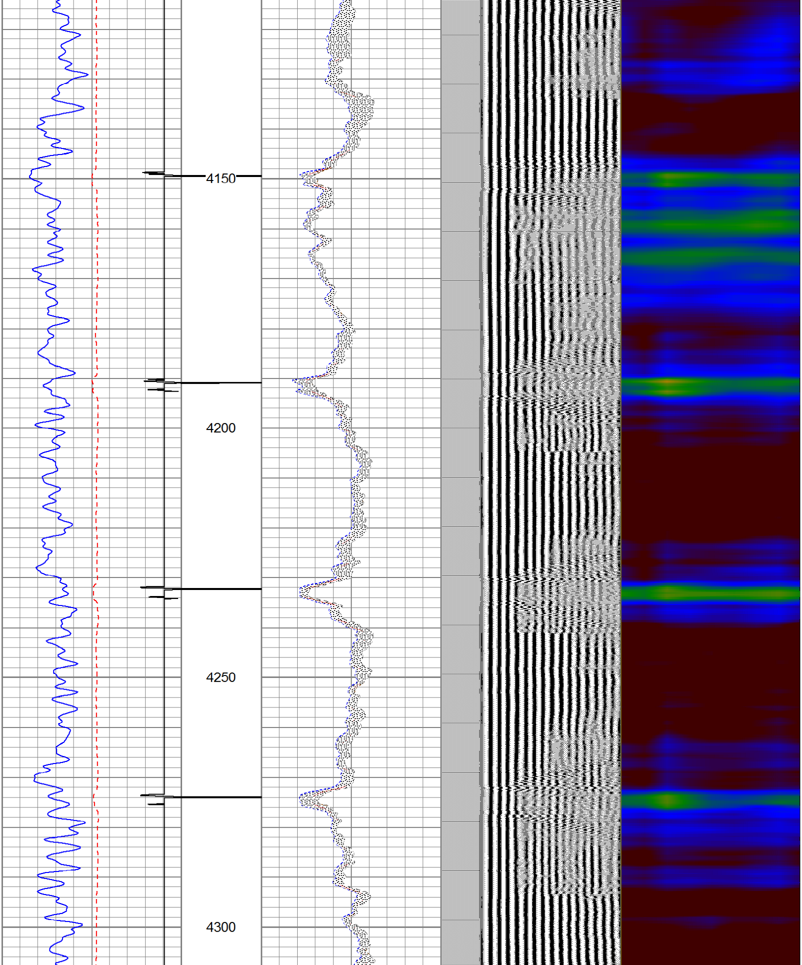
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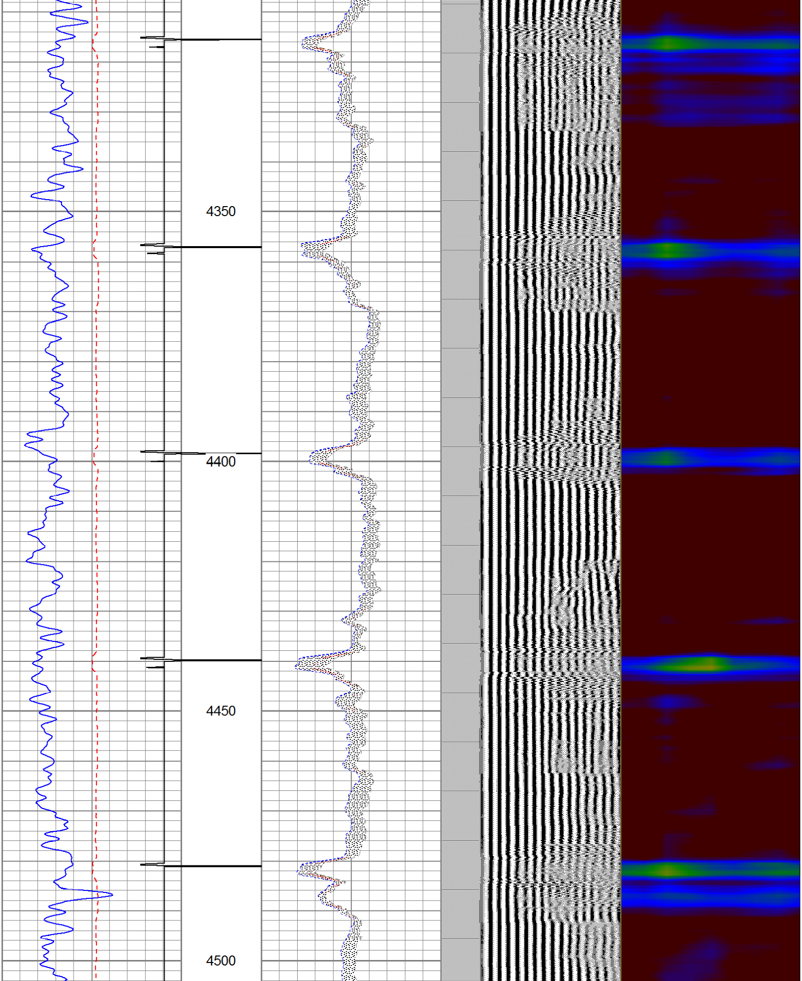
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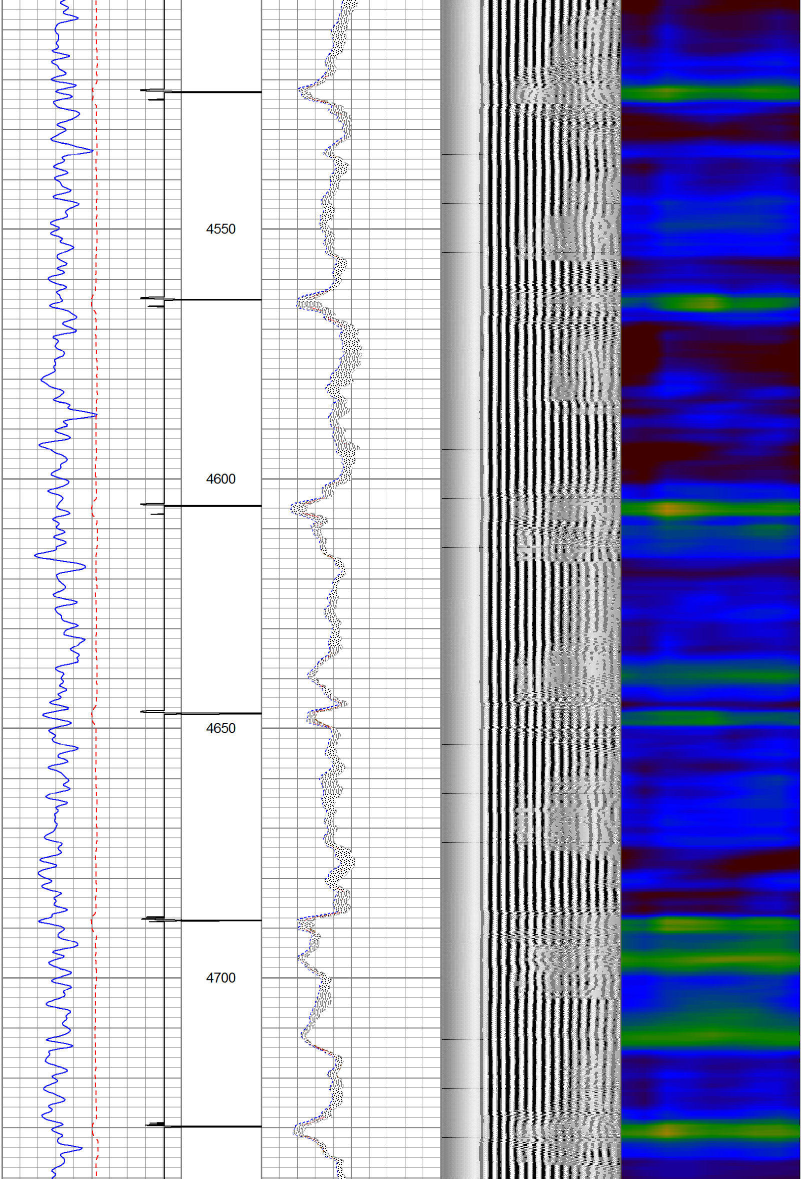
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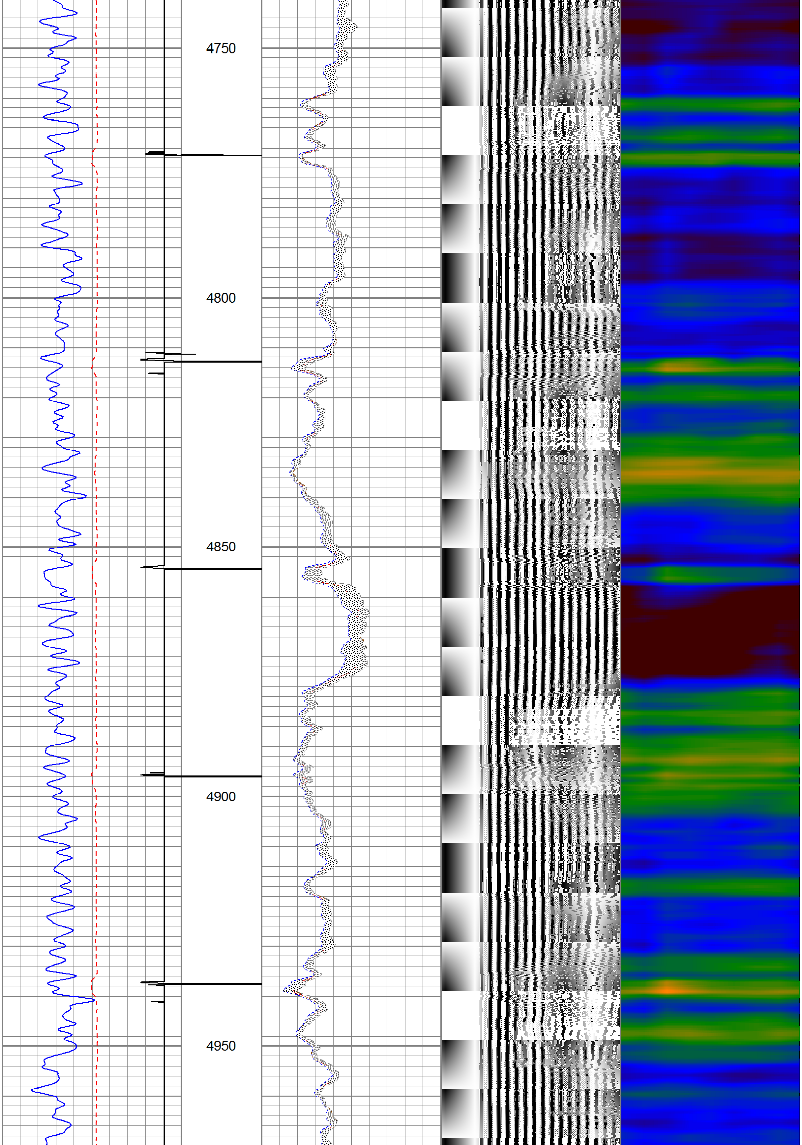
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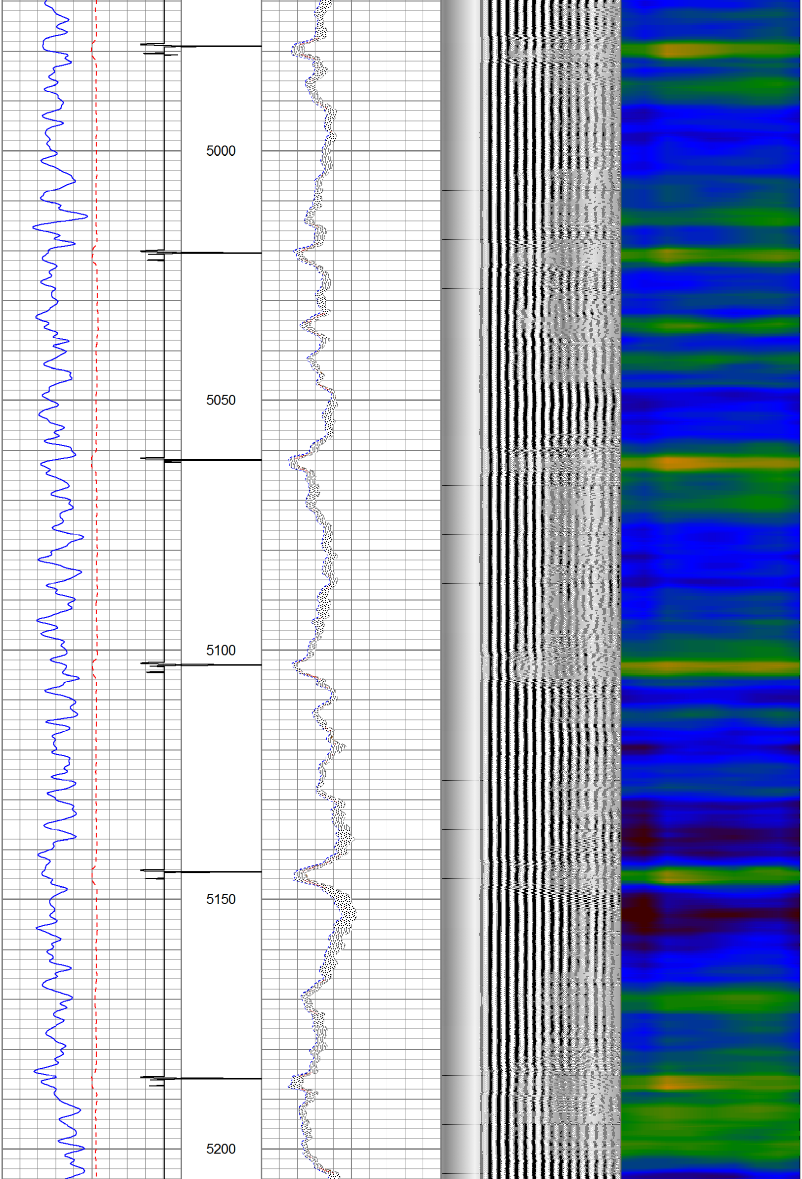
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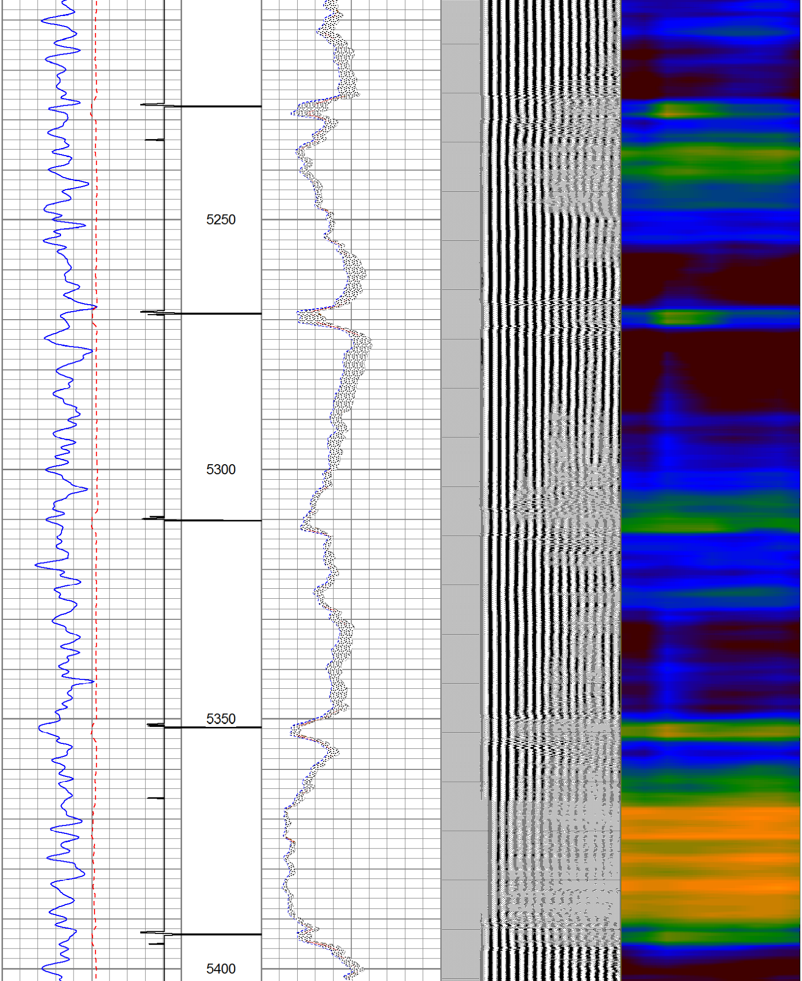
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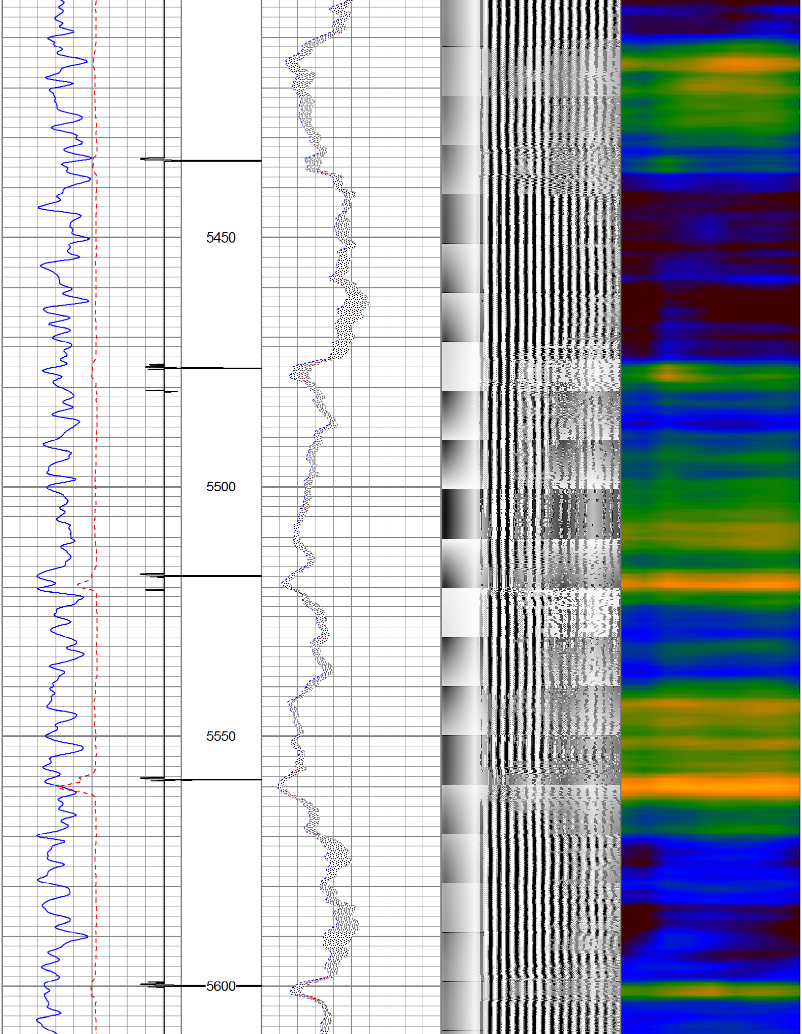
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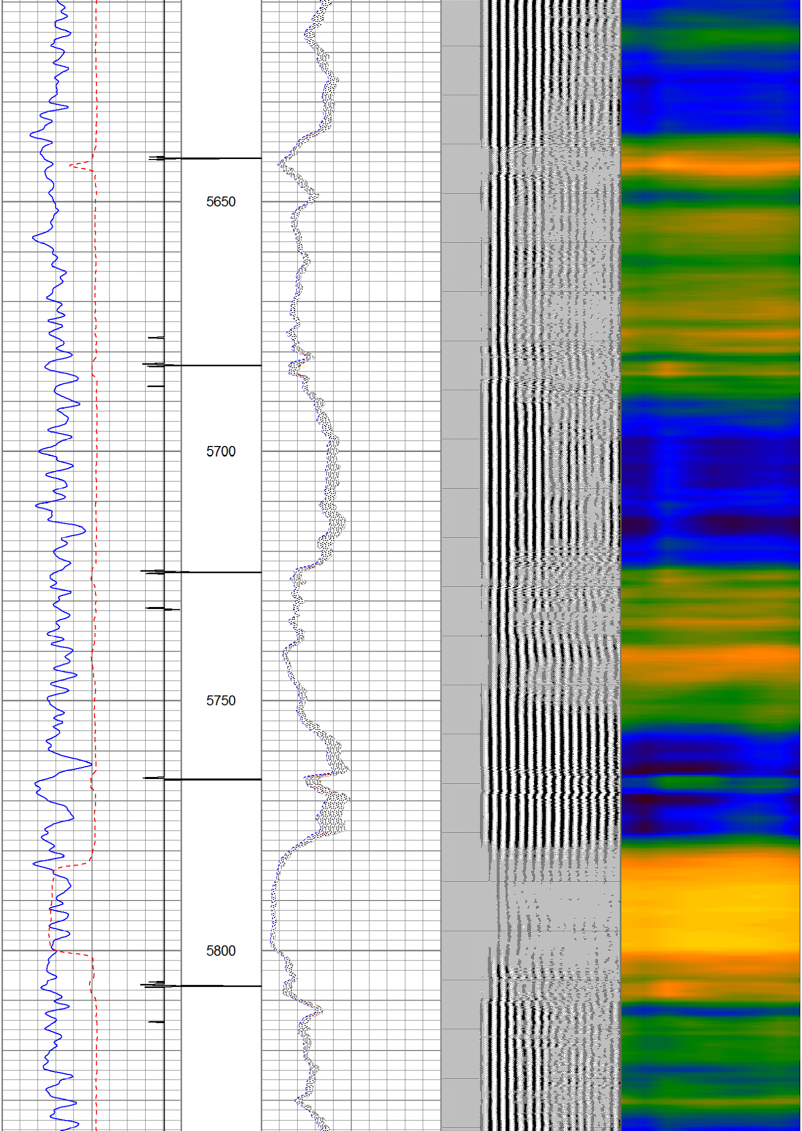
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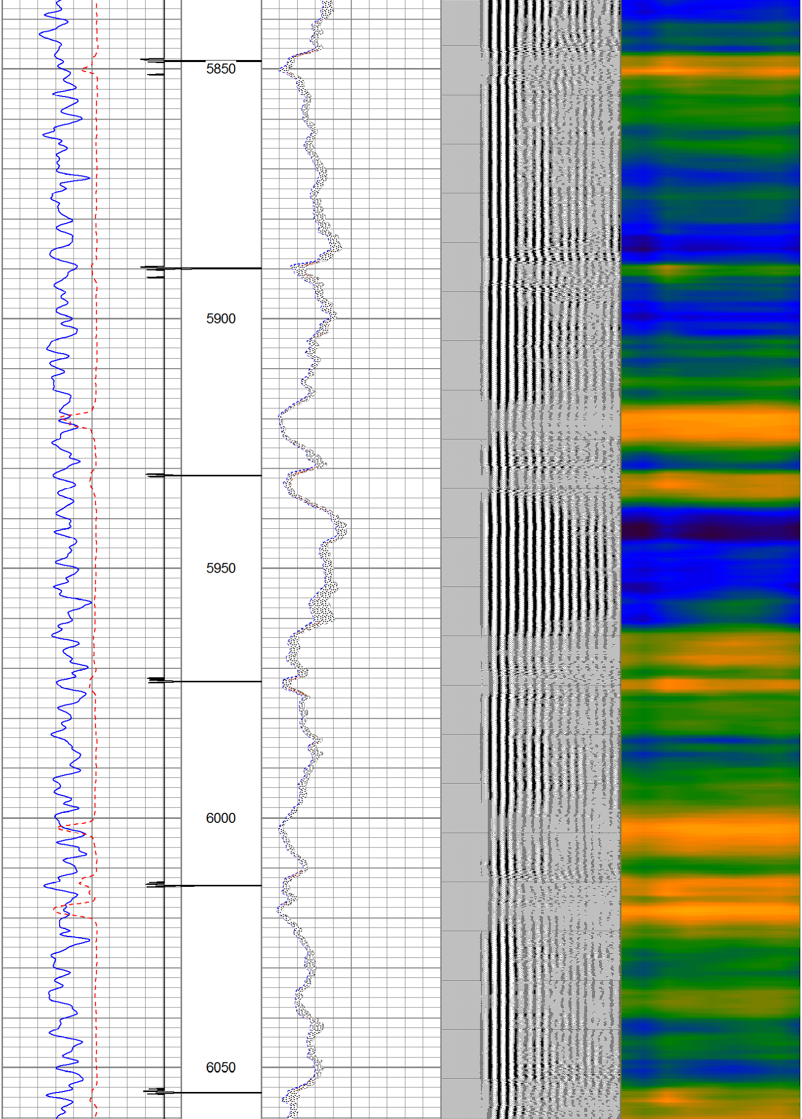
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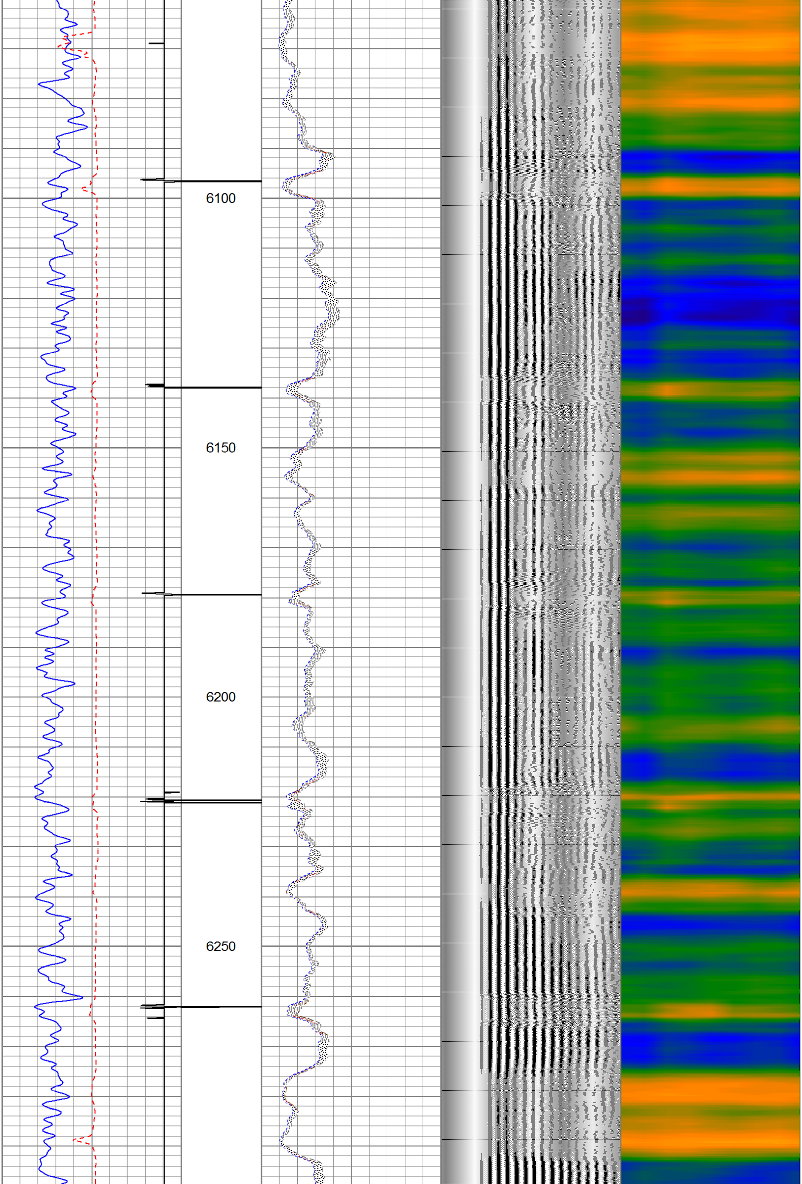
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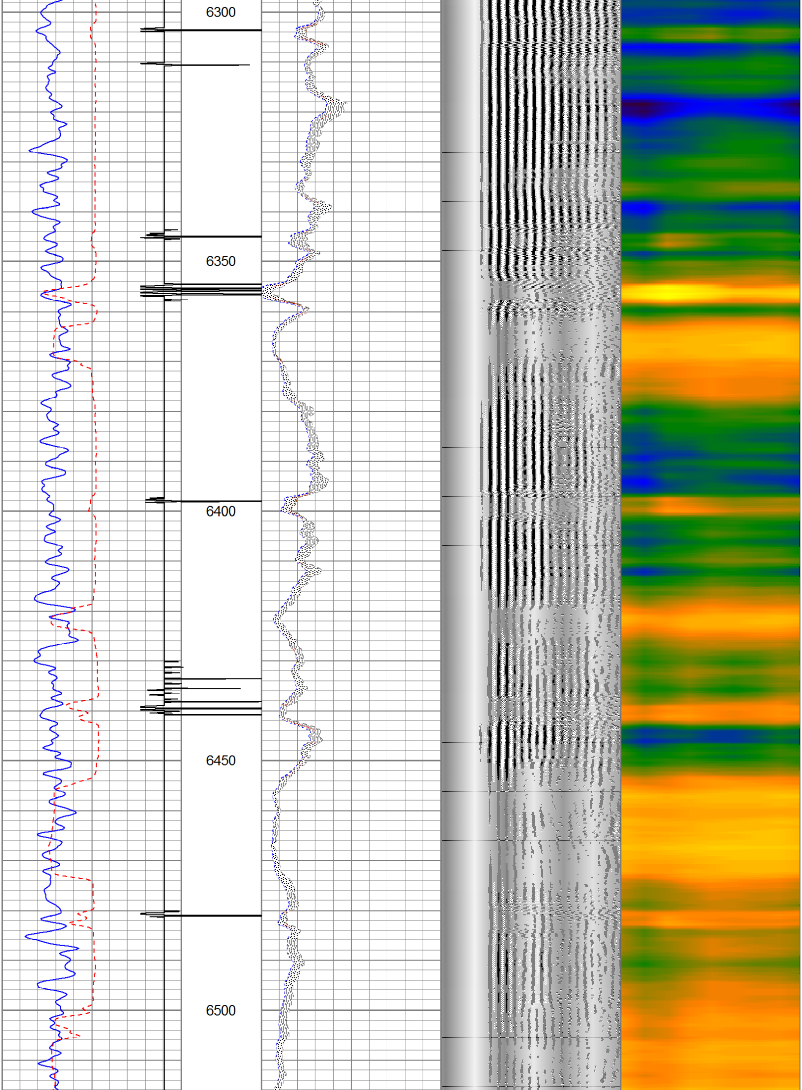
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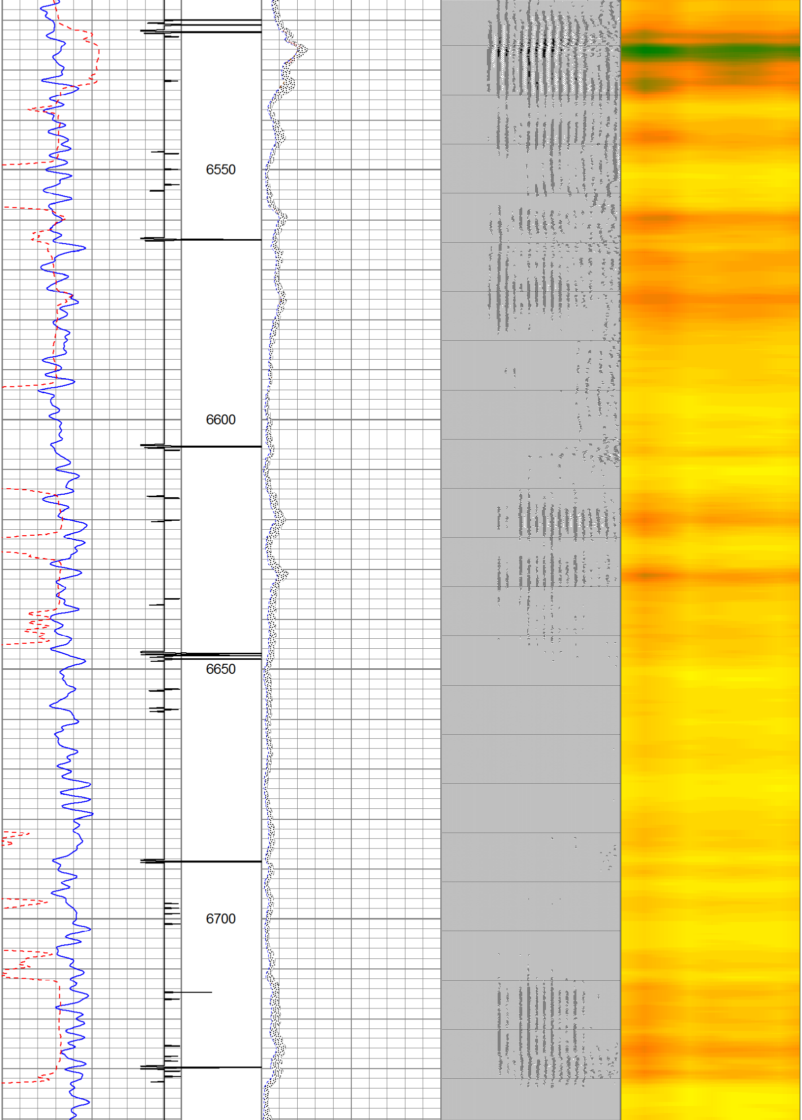
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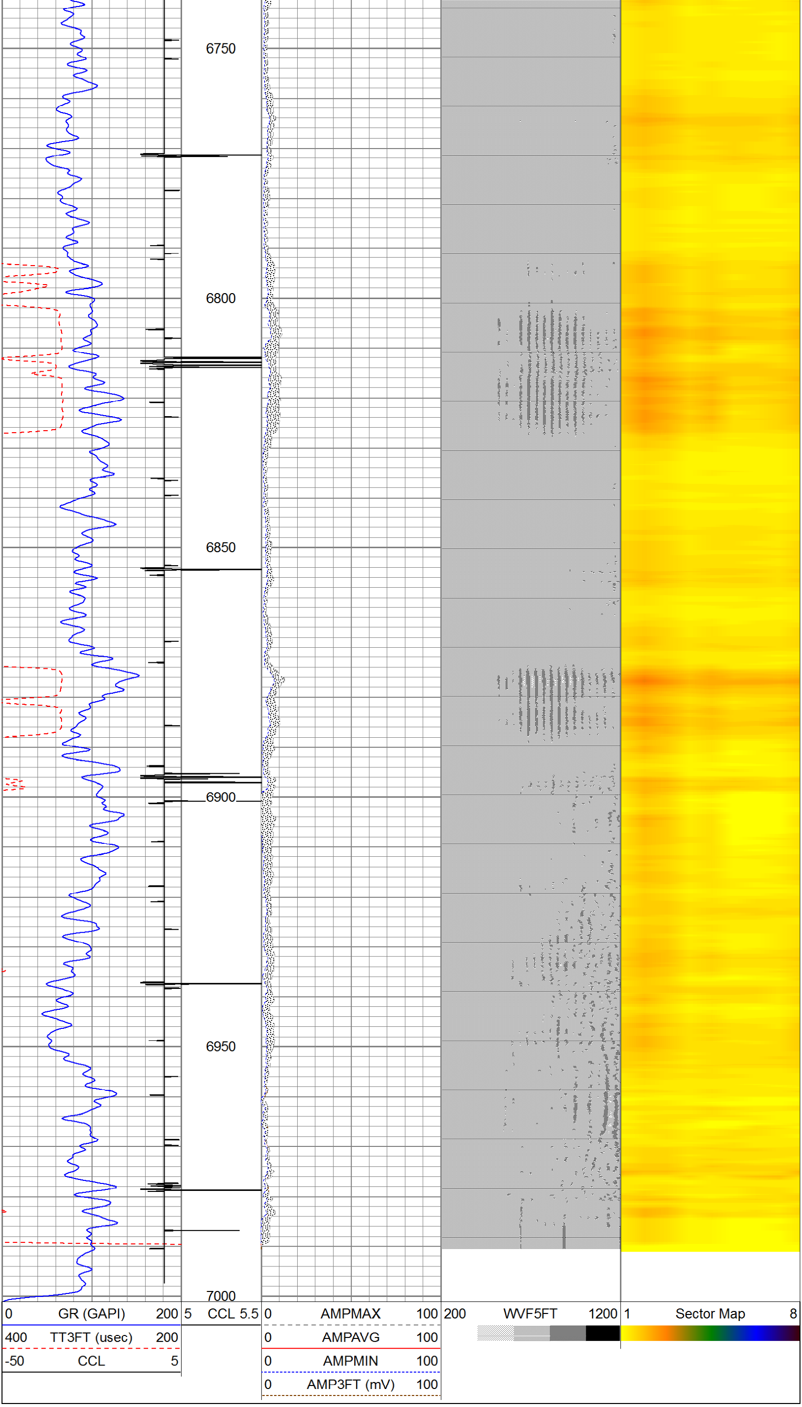
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400 TT3FT (usec) 200
-50 CCL 5
5 CCL 5.5
0 AMPMAX 100
0 AMPAVG 100
0 AMPMIN 100
0 AMP3FT (mV) 100
200 WVF5FT 1200
1 Sector Map 8