



Radial Cement Bond  
Gamma Ray  
Casing Collar Log

Company				Kerr-McGee Oil & Gas Onshore, L.P.				
Well				Kerbs 32C-14HZ				
Field				Wattenberg				
County				Weld				
State				Colorado				
Location:				API # : 05-123-38184				
SHL: 1921' FNL 313' FEL Lat/Long: 40.228429/-104.942864				Other Services Gauge Ring CIL				
SEC 13 TWP 3N RGE 68W				Elevation				
Permanent Datum		Ground Level		Elevation		4874'		
Log Measured From		Kelly Bushing		25 FT		K.B. 4899' D.F. 4898' G.L. 4874'		
Drilling Measured From		Kelly Bushing						
Date				12-APR-2014				
Run Number				Two				
Depth Driller				17191 FT				
Depth Logger				7510 FT				
Bottom Logged Interval				7505 FT				
Top Log Interval				Surface				
Open Hole Size				8.750"				
Type Fluid				Water				
Density / Viscosity				8.4 lbm/gal				
Max. Recorded Temp.				224°F				
Estimated Cement Top				Surface				
Time Well Ready				ROA				
Time Logger on Bottom				4:30 P.M.				
Equipment Number				HD 119				
Location				Fort Lupton, CO				
Recorded By				Wayne Wacker				
Witnessed By				Edgar Chavez				
Borehole Record				Tubing Record				
Run Number		Bit	From	To	Size	Weight	From	To
Casing Record		Size (in)	Wgt. (lbs/Ft)	Grade	Top	Bottom		
Surface Casing		9-5/8"	36#	J-55	Surface	1094 FT		
Intermediate #1		7"	26#	HPC-110 LTC	Surface	7613 FT		
Intermediate #2								
Liner		4-1/2"	11.6#	P-110	6590 FT	17181 FT		

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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

Radial Cement Bond Log - Casing Inspection Log is first recorded log in hole.  
Log correlated to reported casing tally at top of liner @ 6590 FT  
Adjusted 1 FT to liner top at 6590 FT  
RCBL-CIL ran at 2200 PSI surface induced pressure  
Estimated Cement Top recorded at Surface

Thank you for choosing FMC Technologies Completion Services, Inc.



7 Inch Main Pass

Logged With 2200 PSI At Surface

Database File: 0512338184\_anadarko\_kerbs 32c-14hz\_04-12-14\_mit\_rbl.db

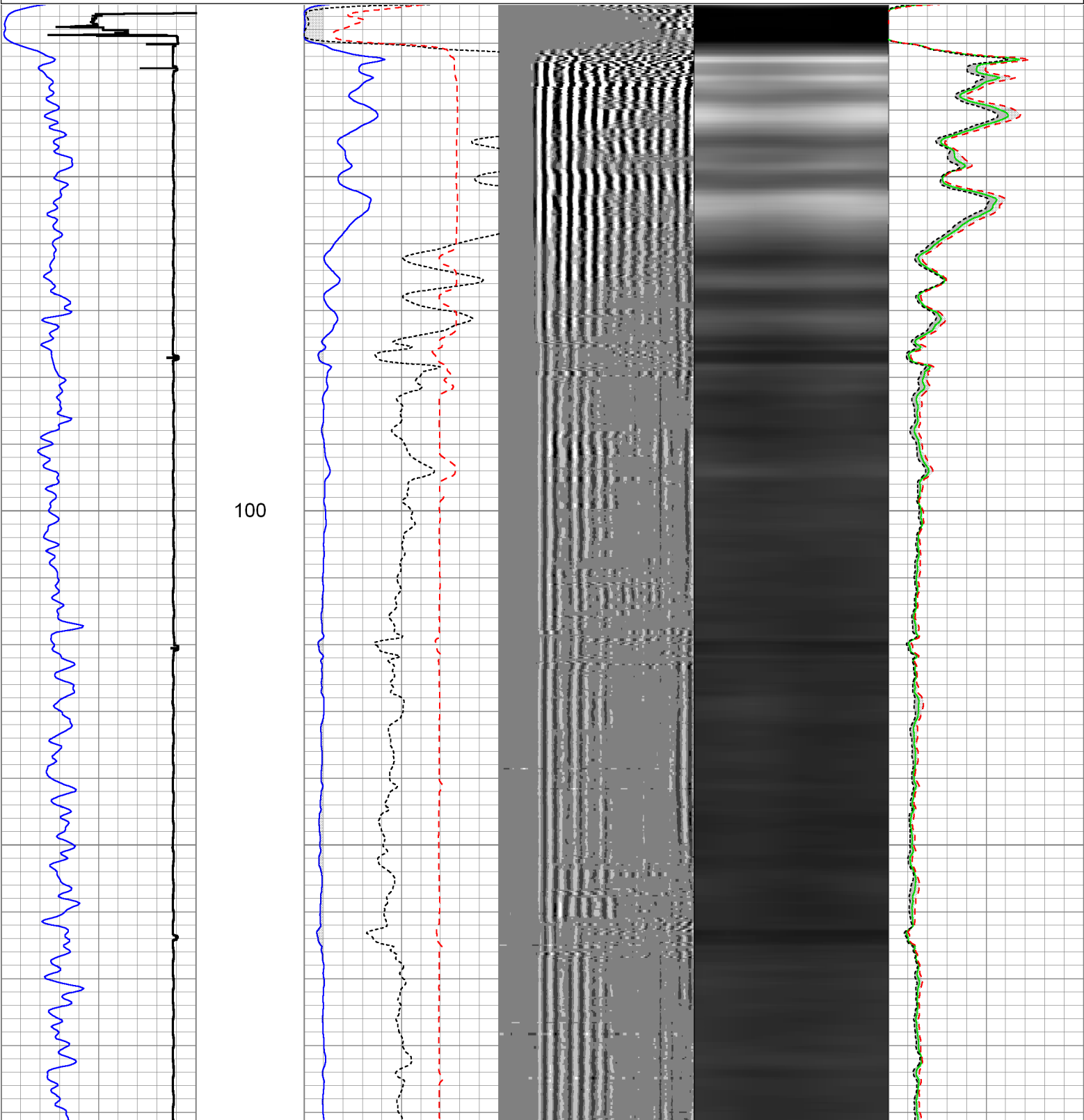
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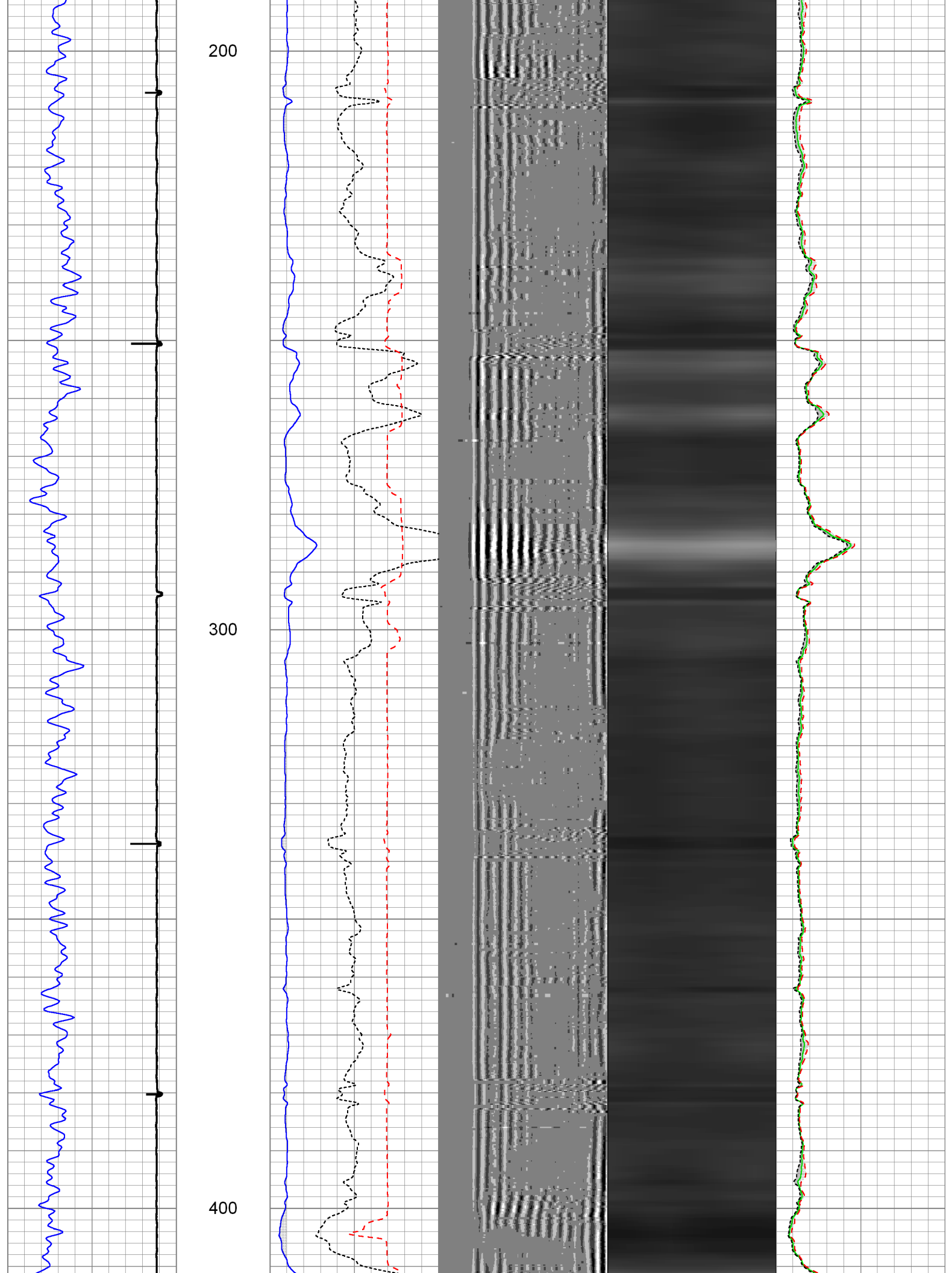
Presentation Format: rbt007

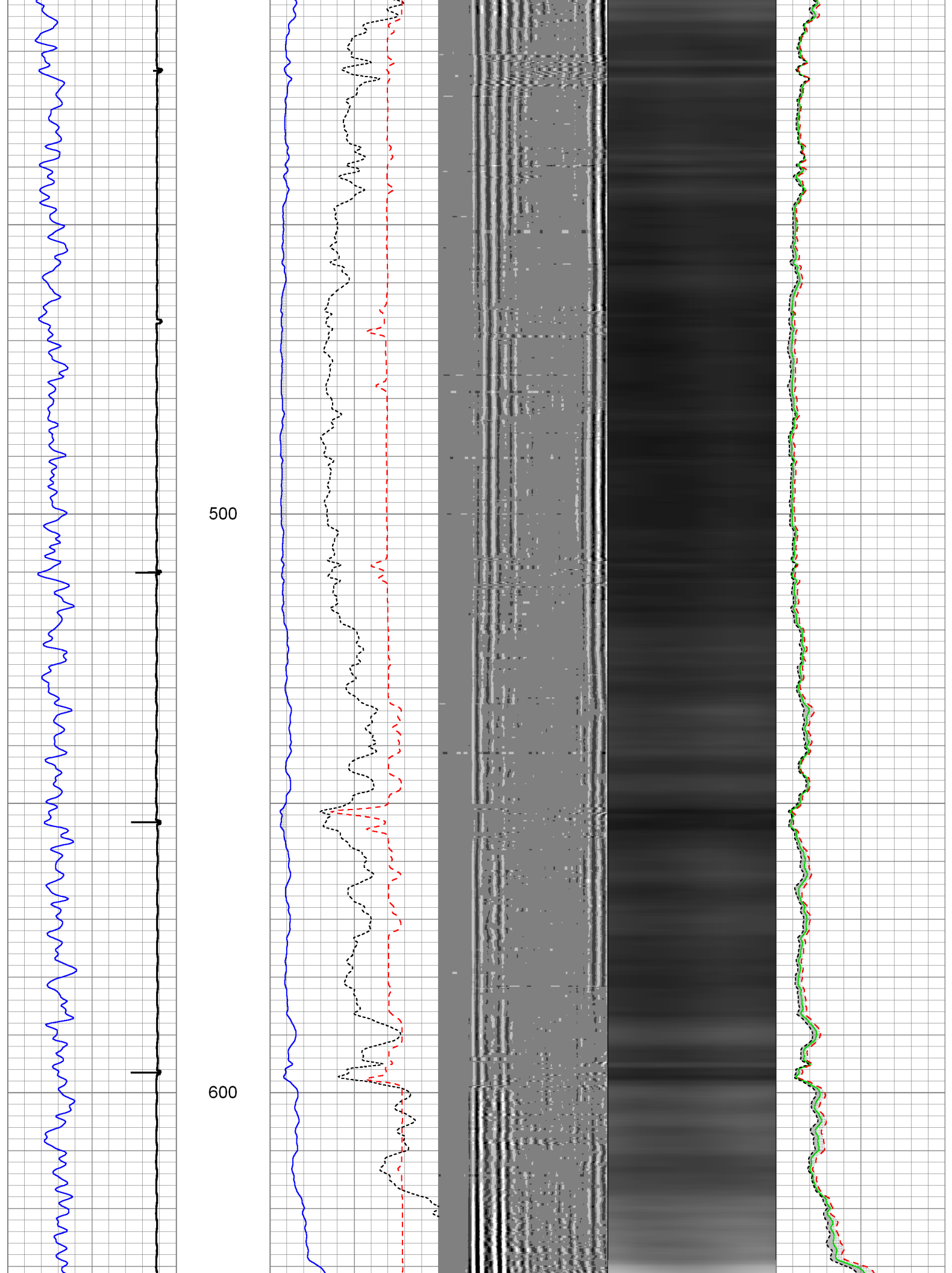
Dataset Creation: Sat Apr 12 17:14:16 2014 by Log Sondex V7.03

Charted by: Depth in Feet scaled 1:240

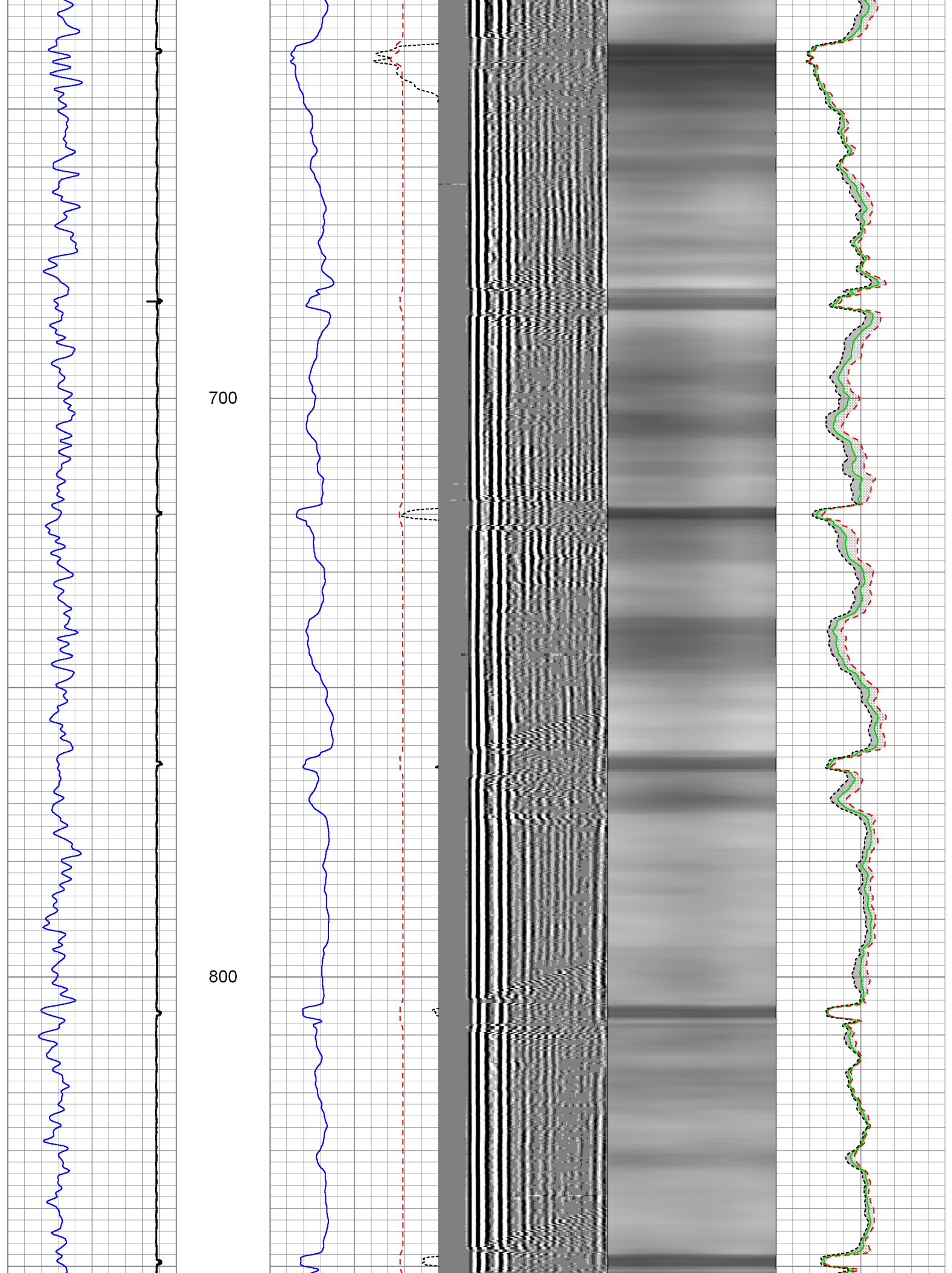
Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120		0 (mV) 100	200 1200		0 100
Collar Locator		3' Amplitude x 5			Minimum Amplitude
		0 (mV) 20			0 100
		3' Travel Time			Maximum Amplitude
		650 (usec) 150			0 100

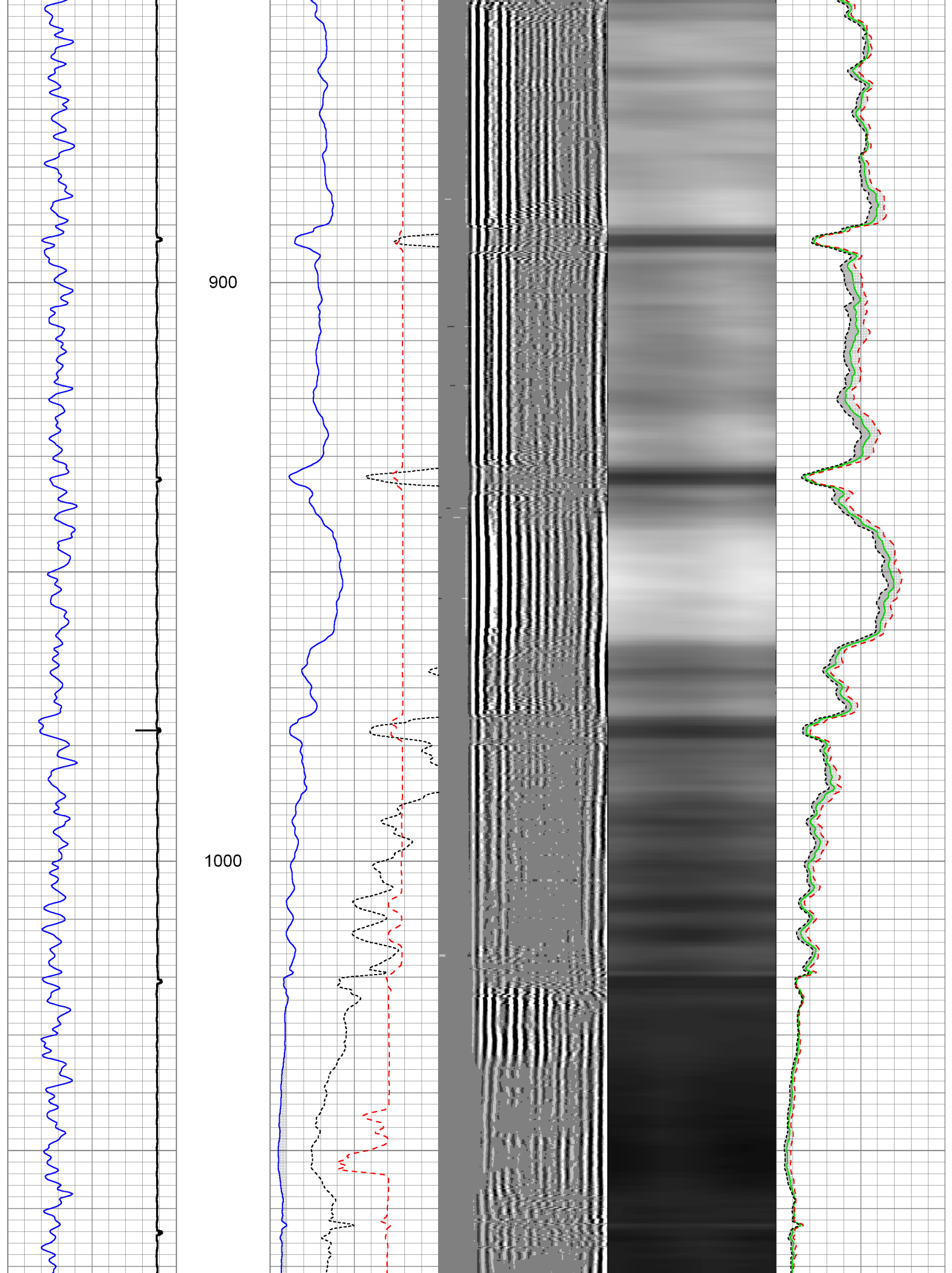


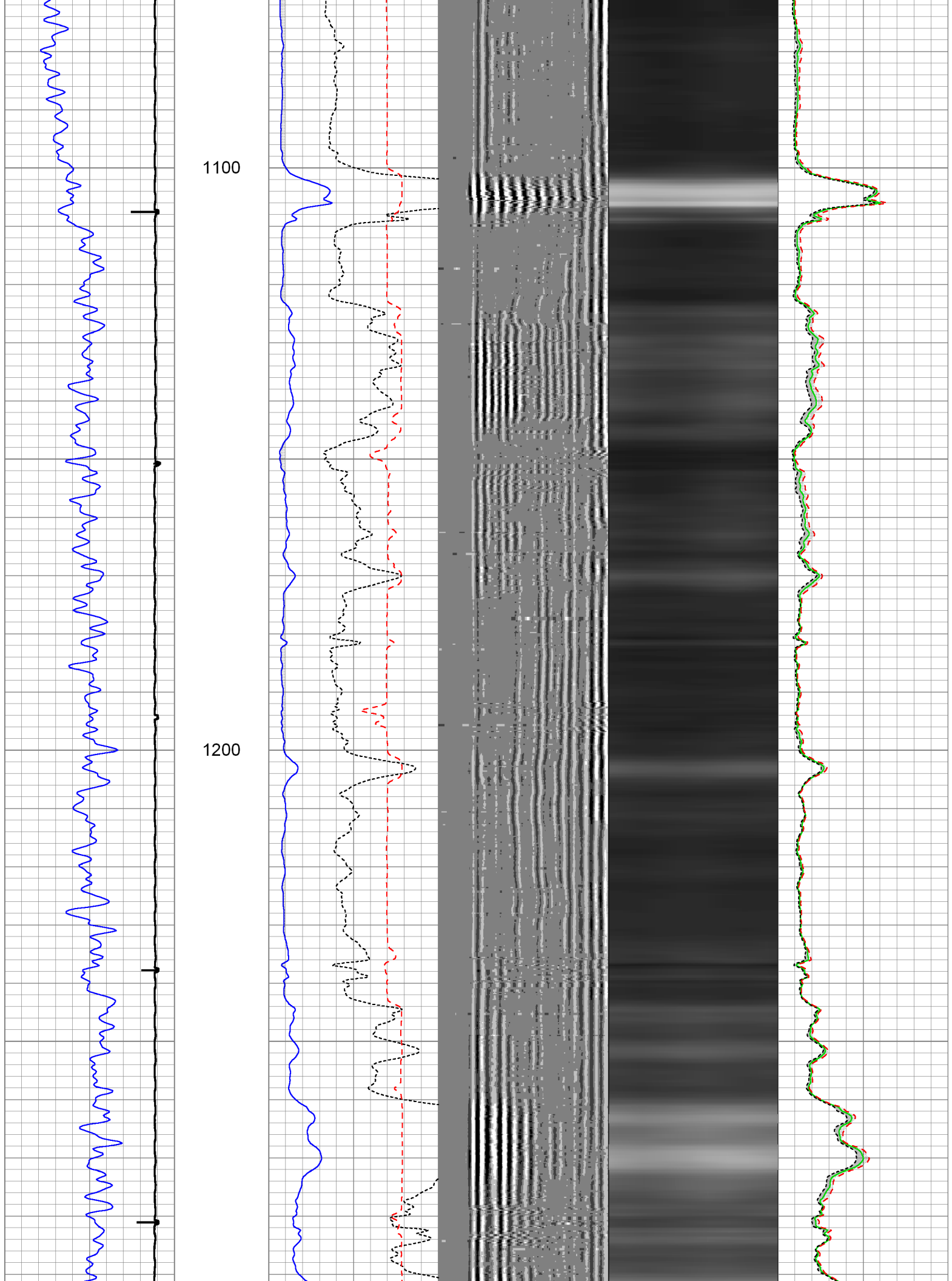


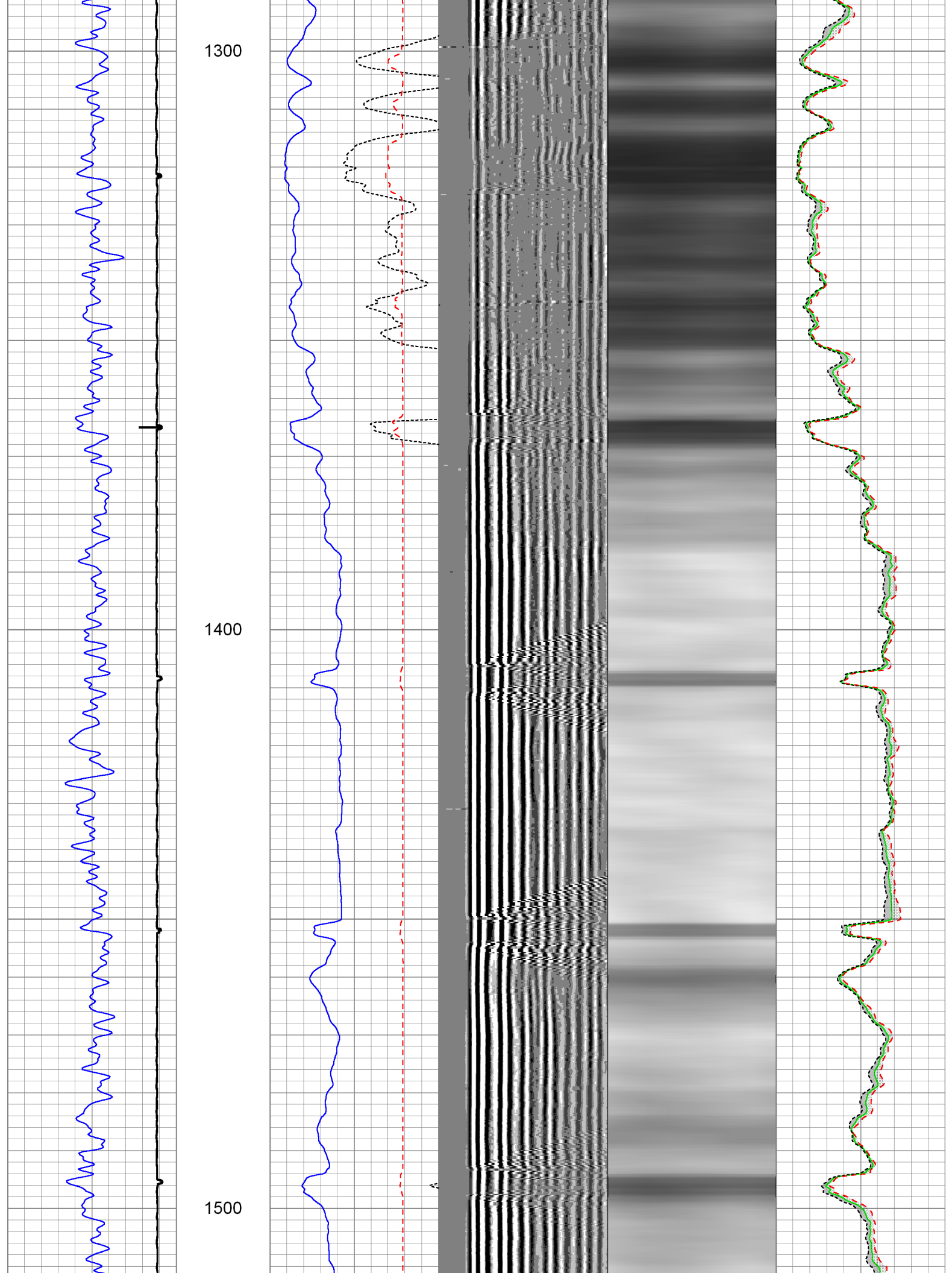


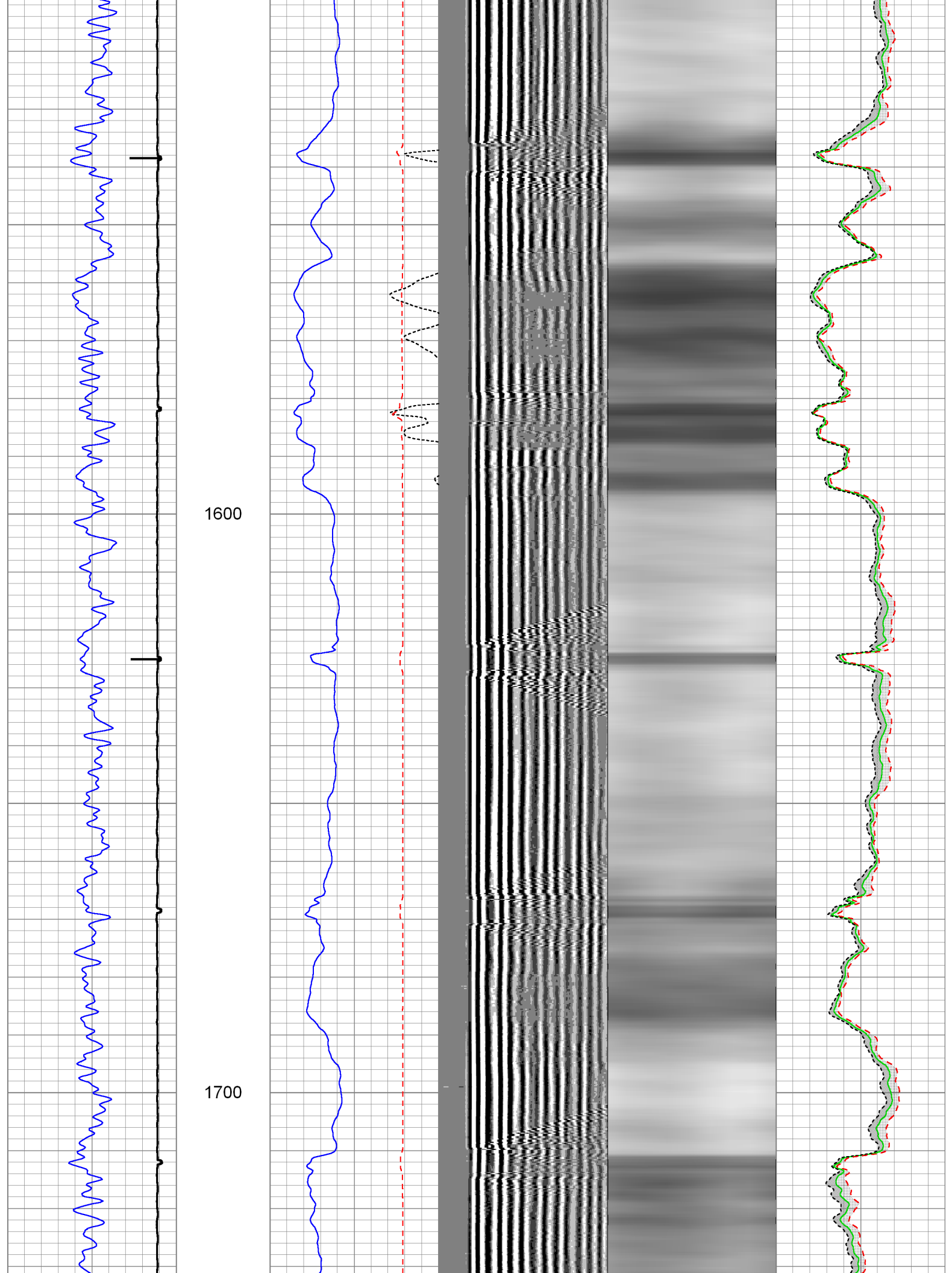




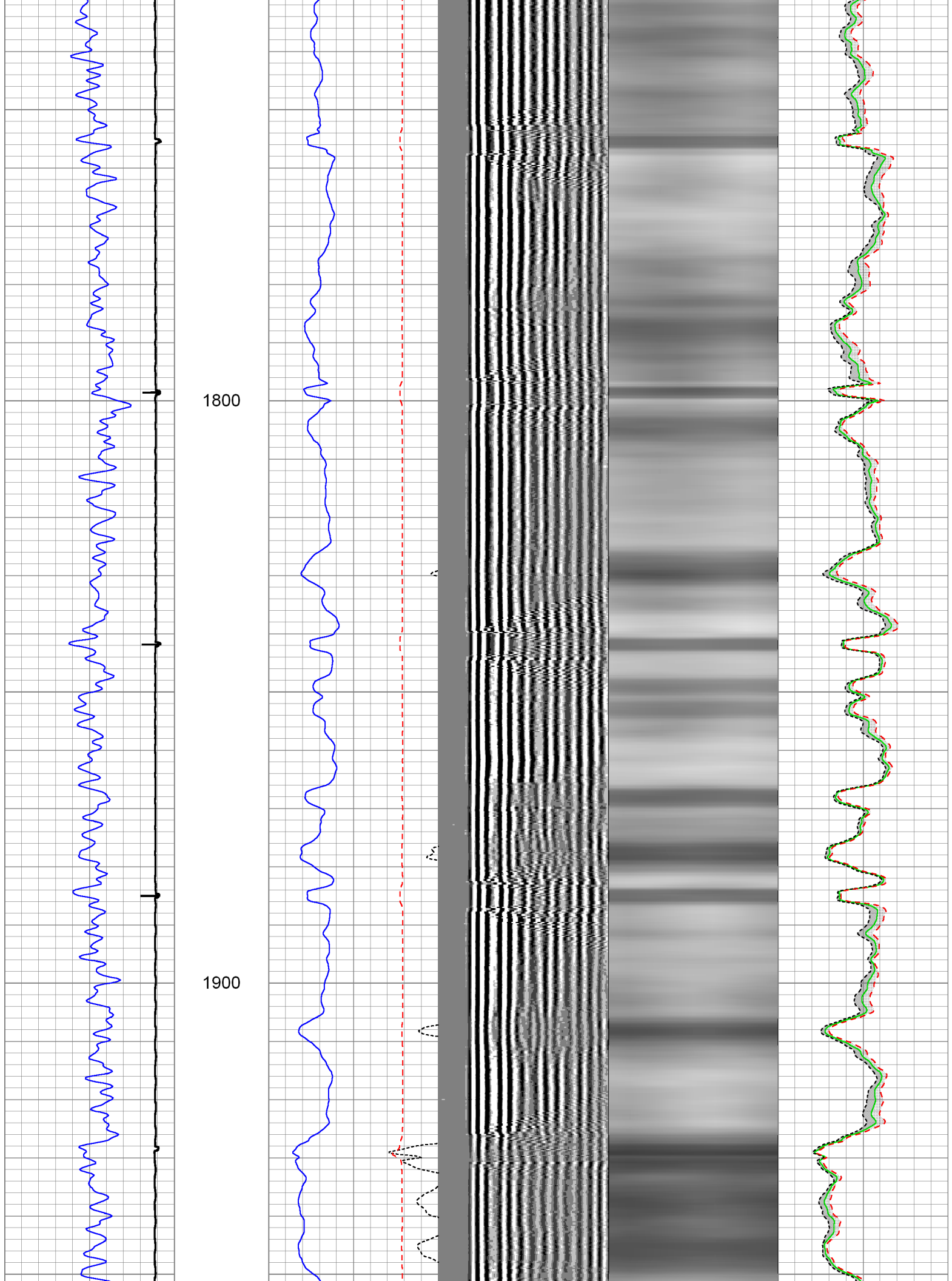








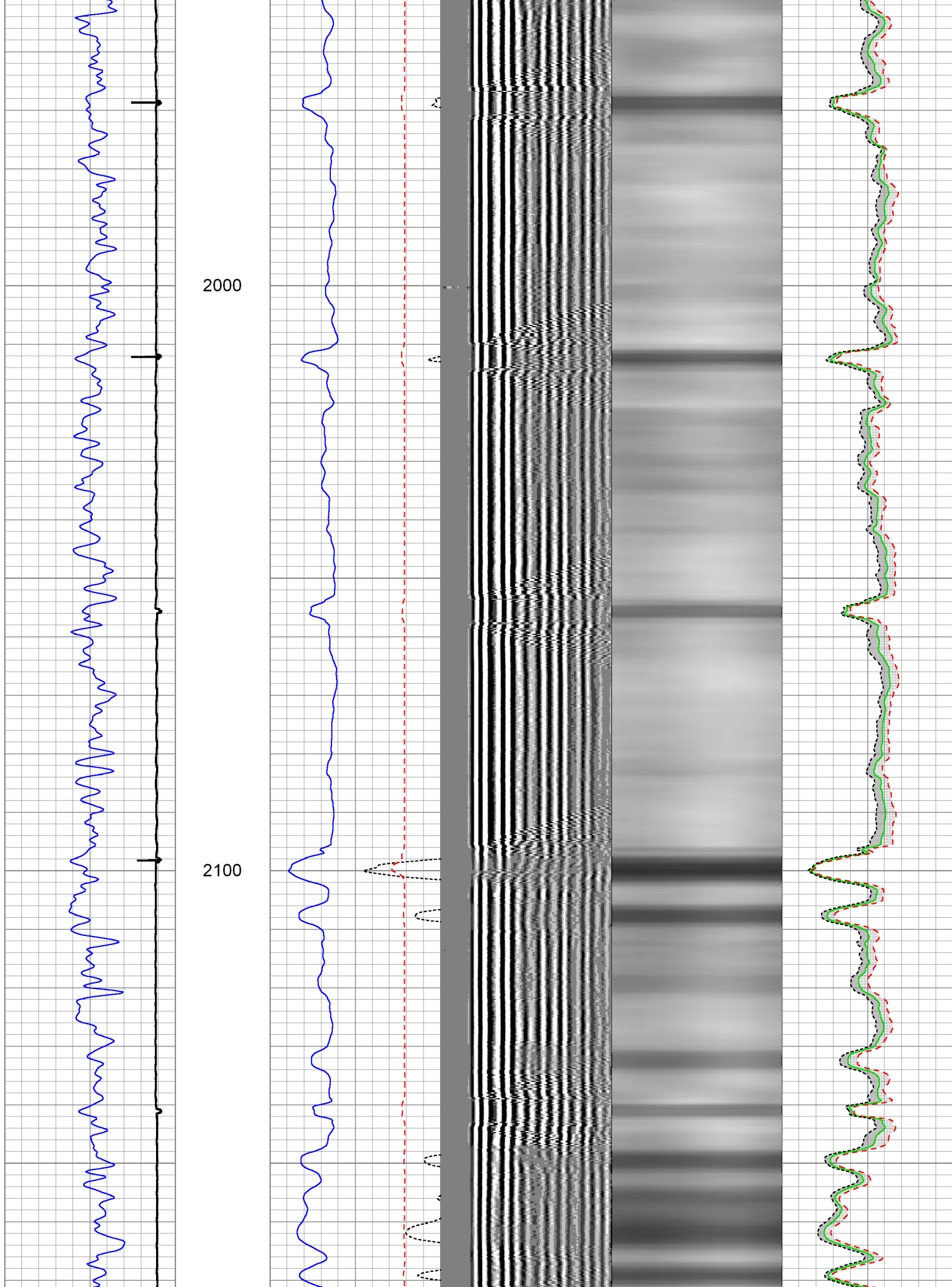






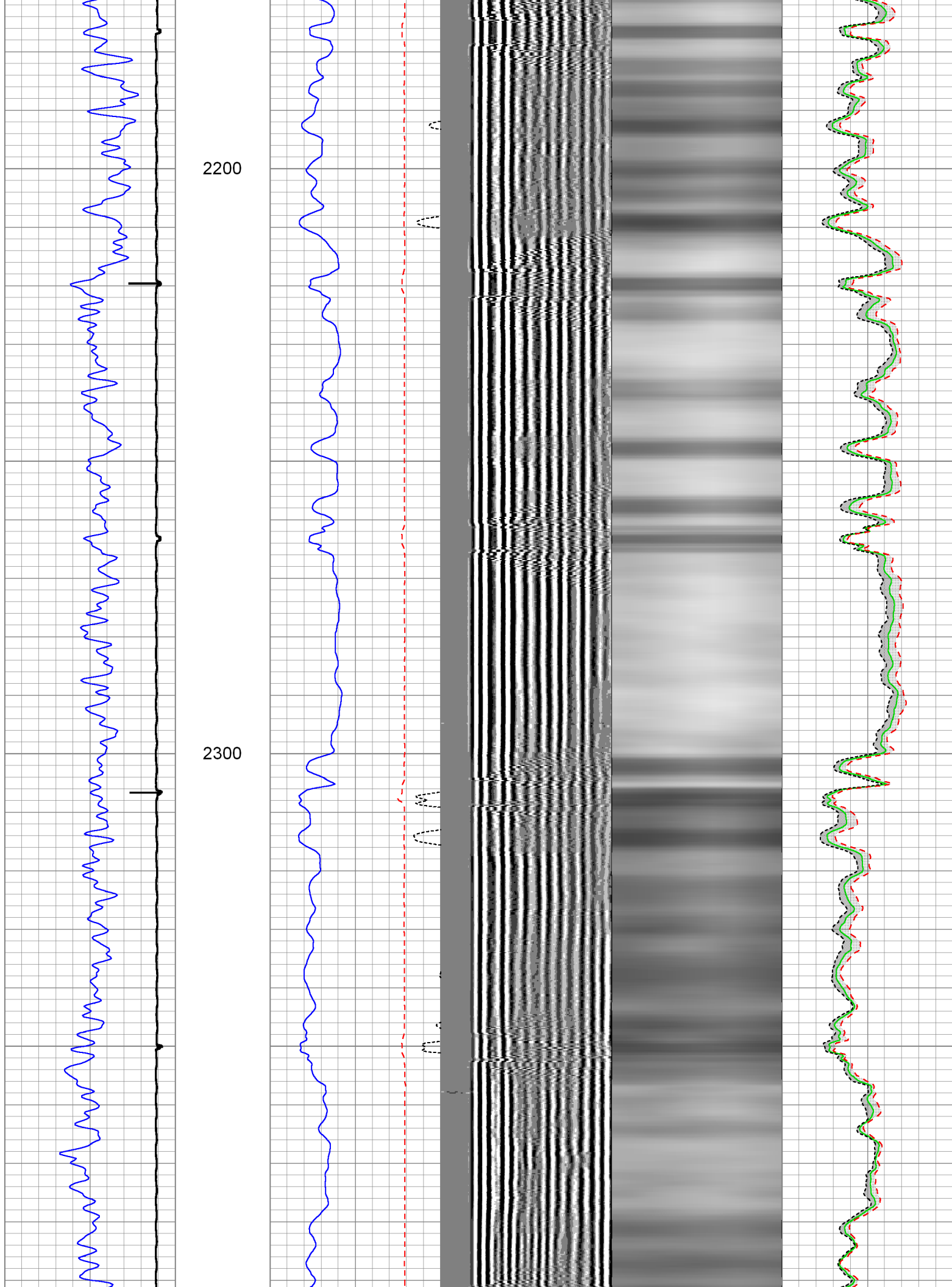
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2100



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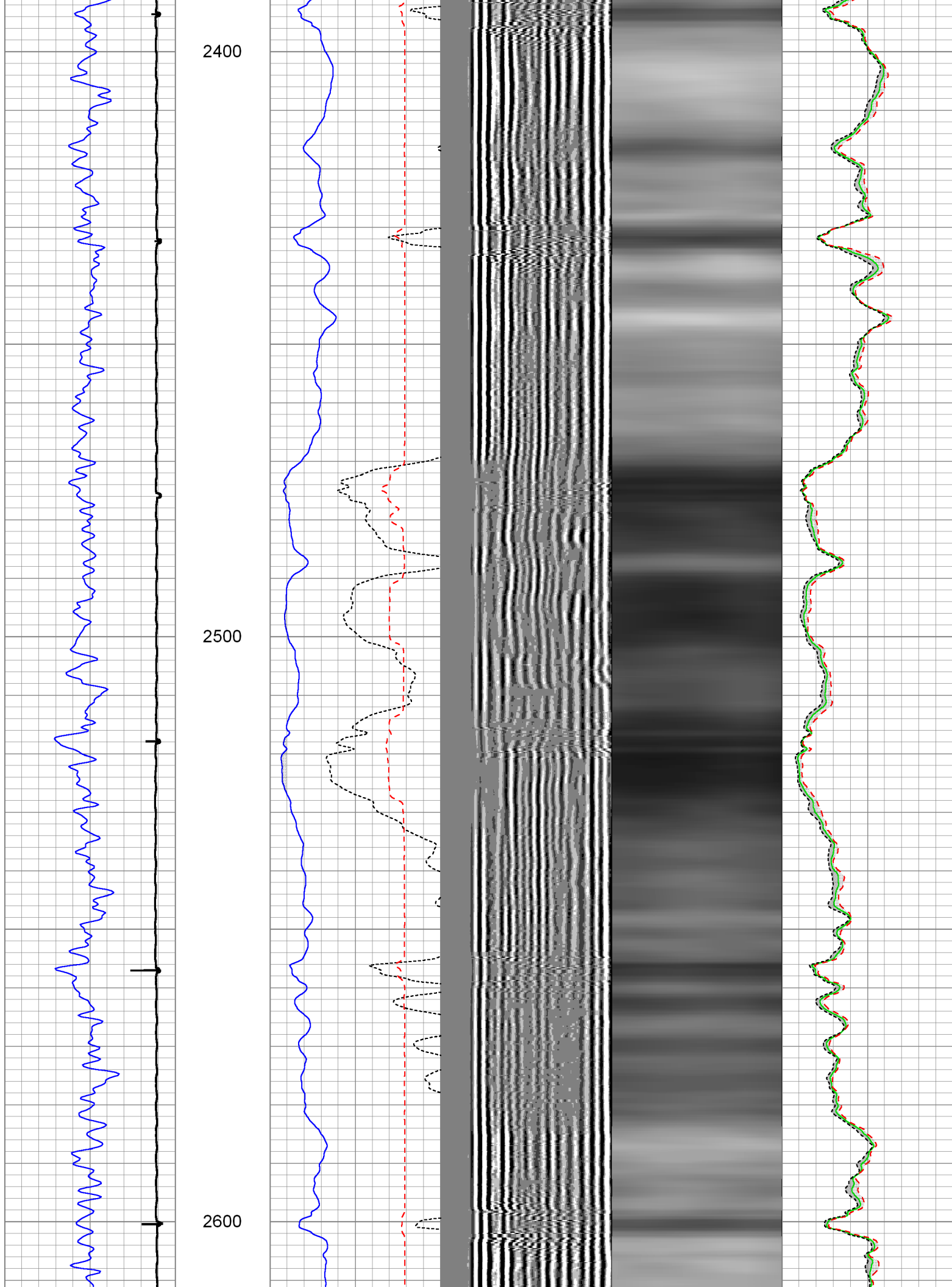
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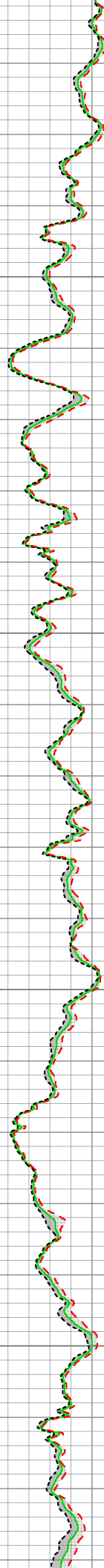
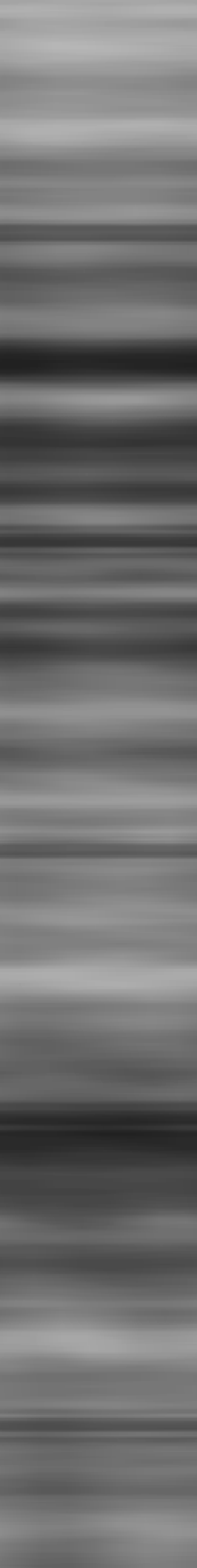
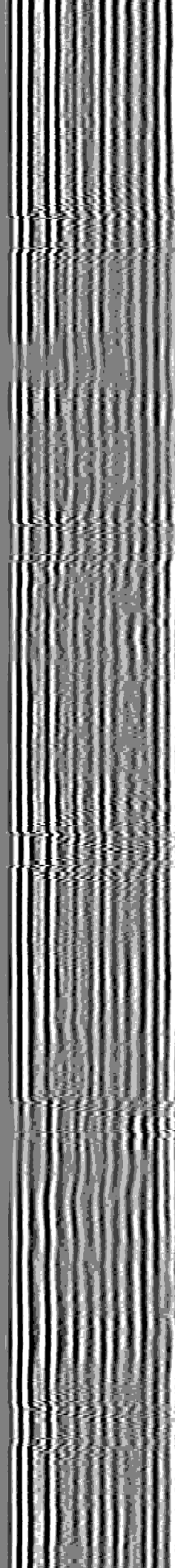
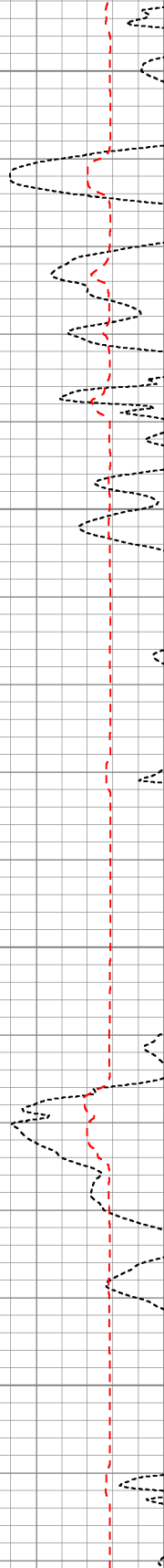
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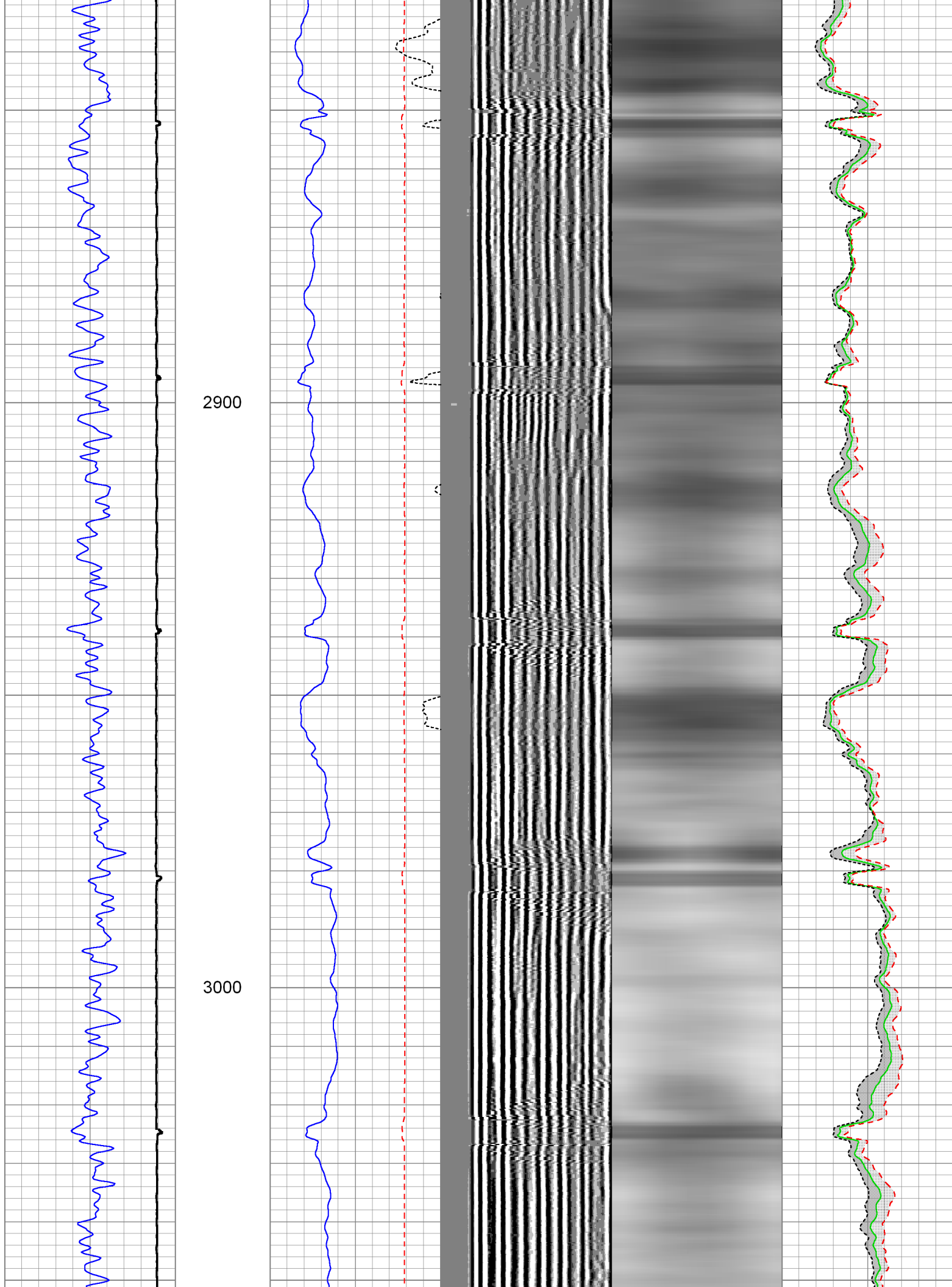
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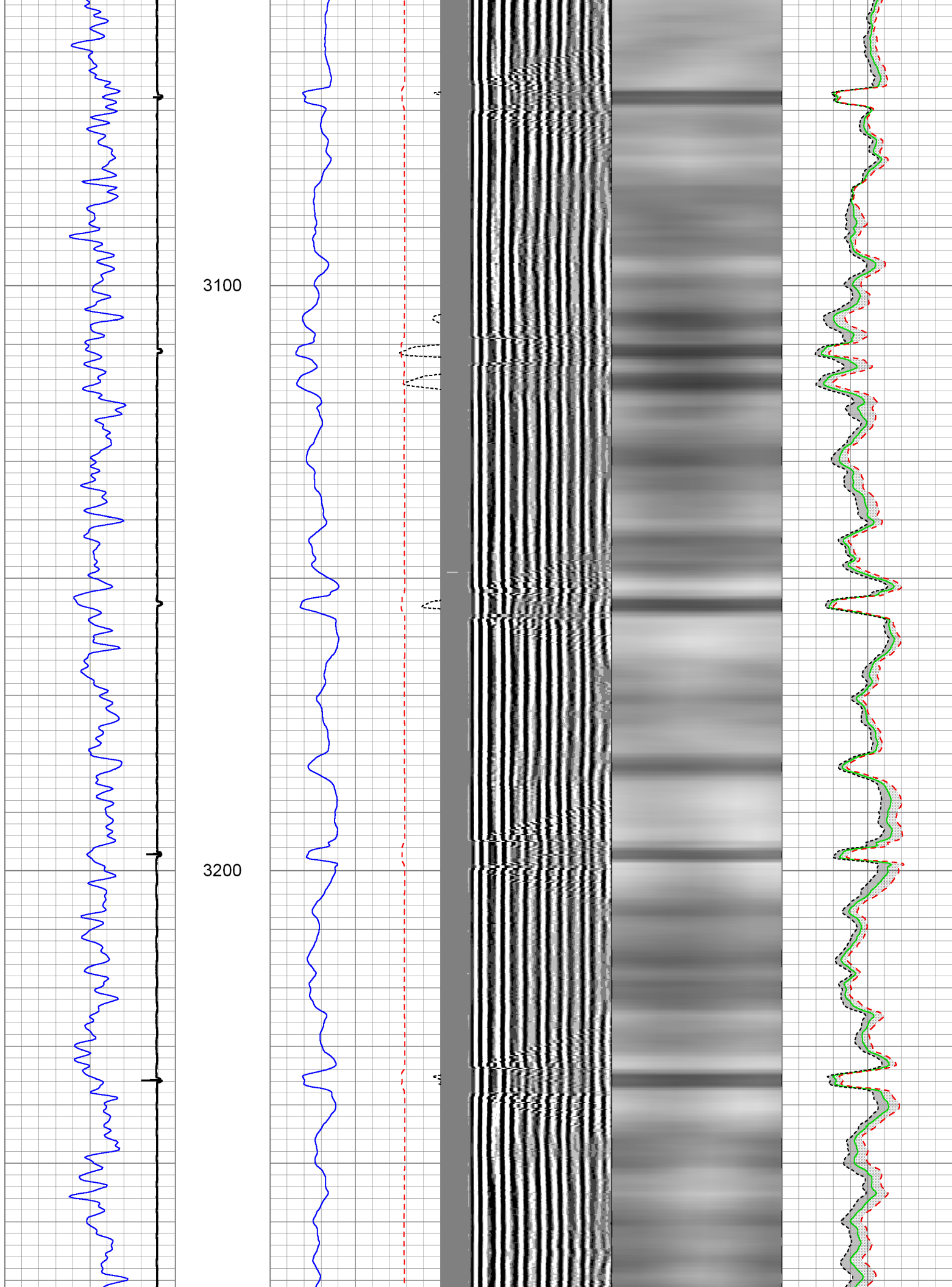
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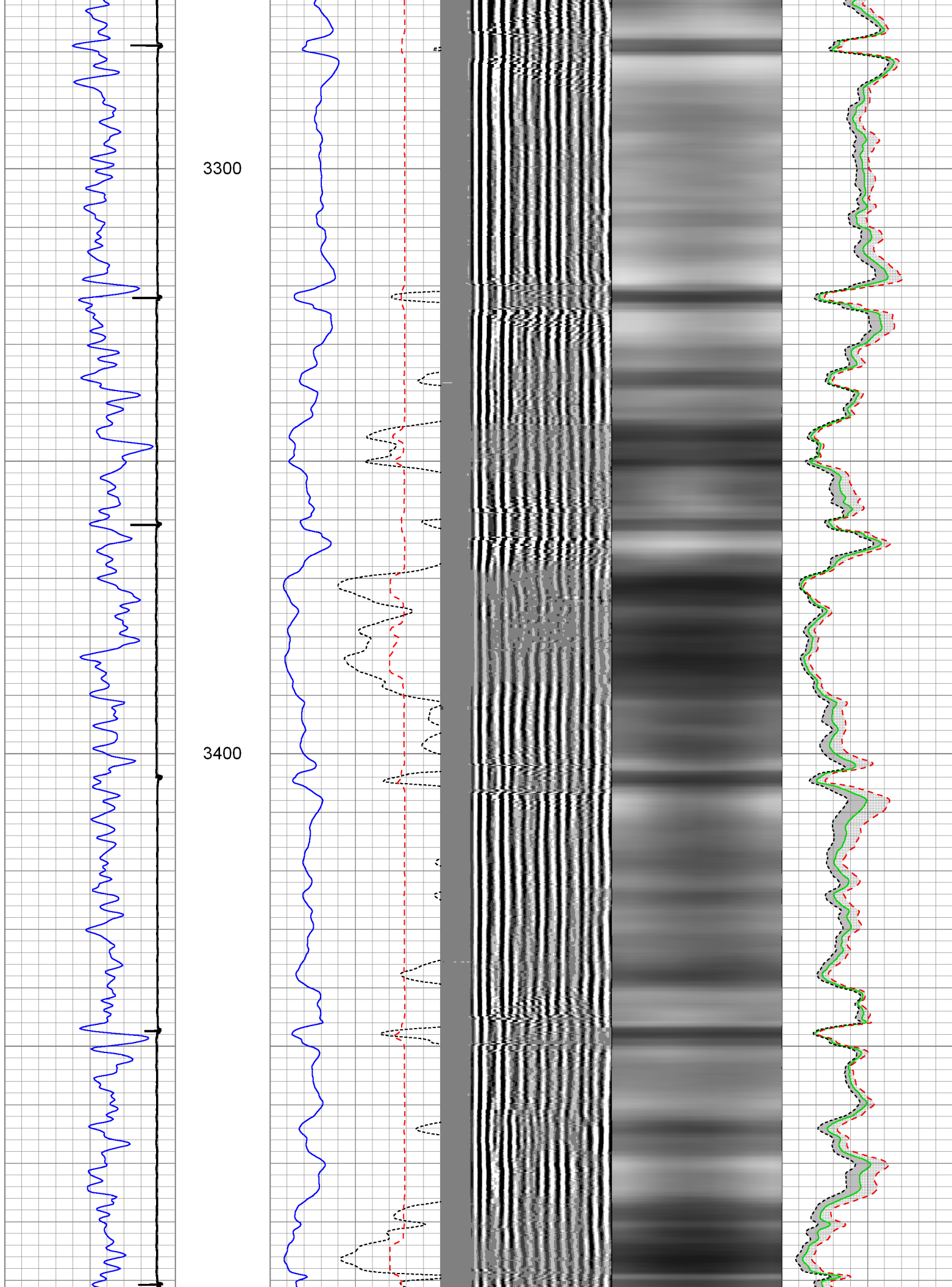
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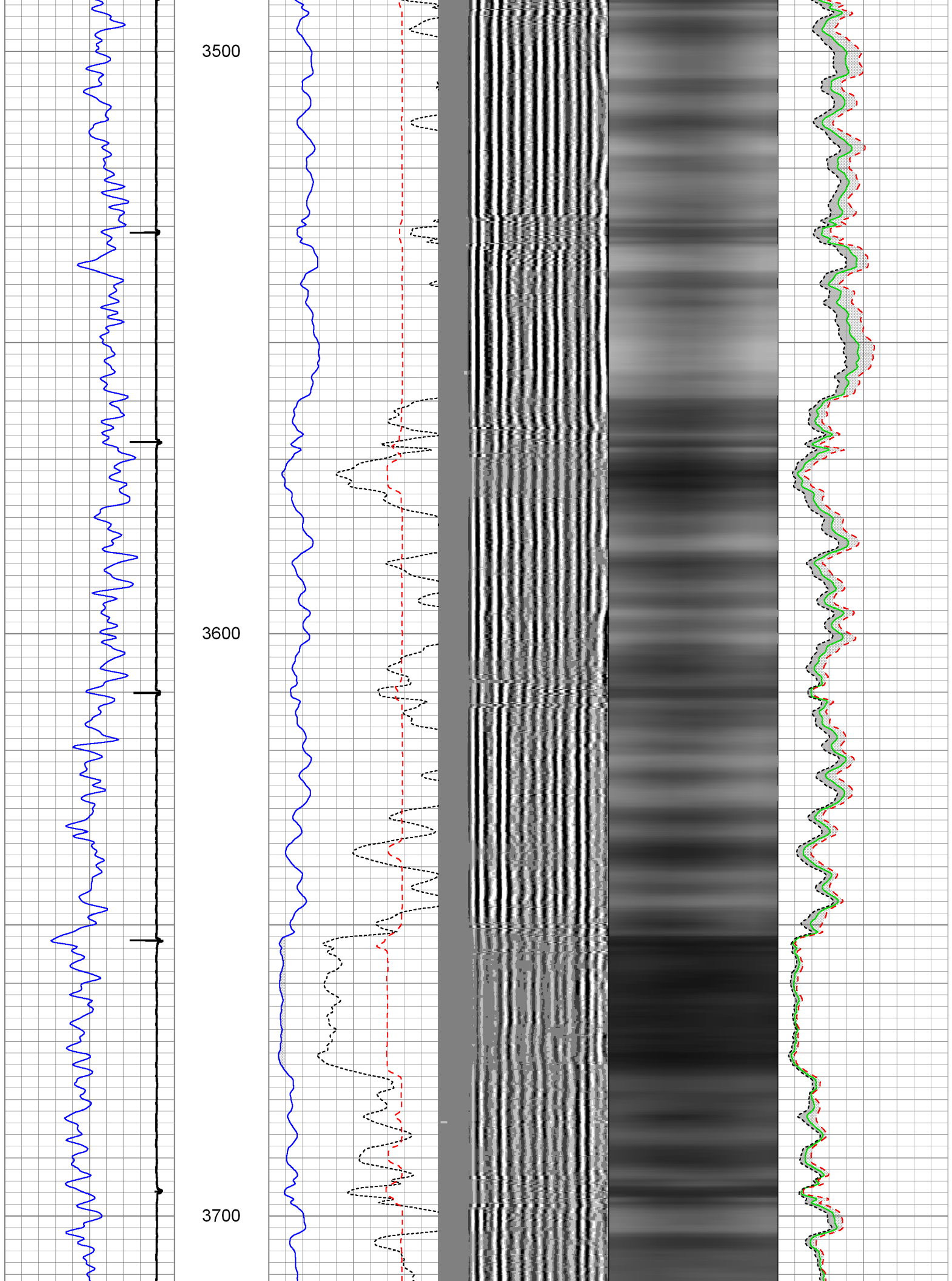
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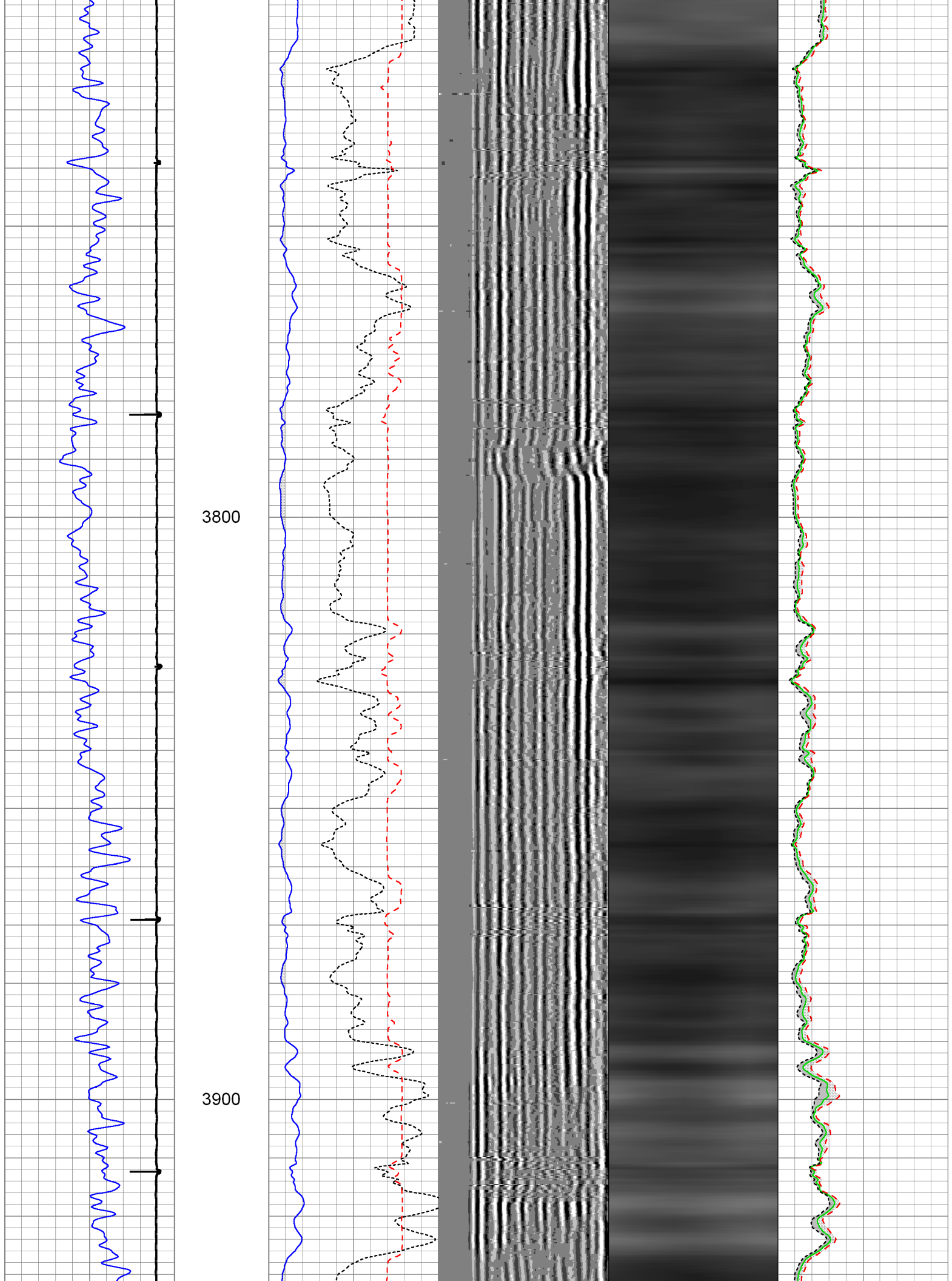
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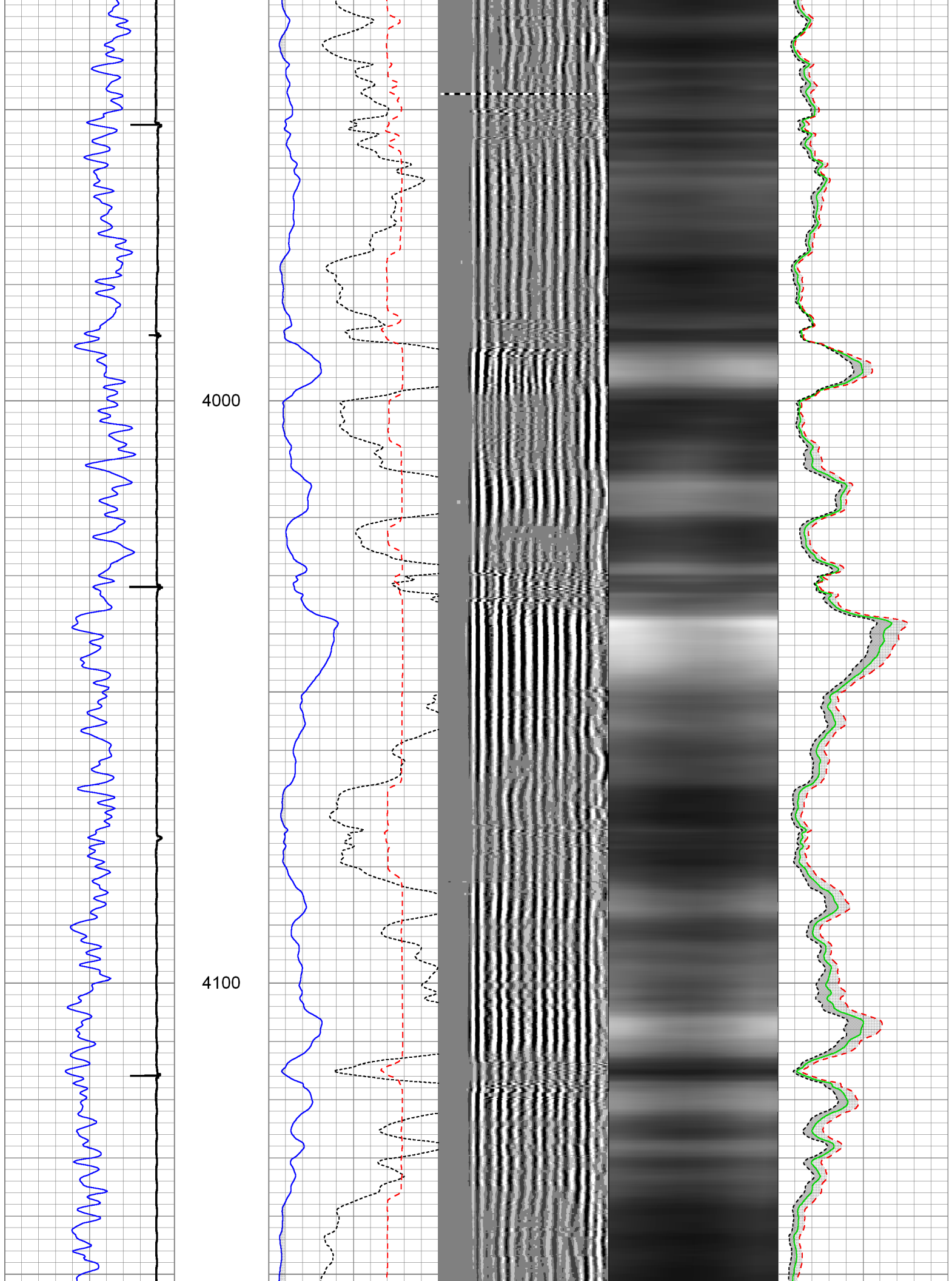
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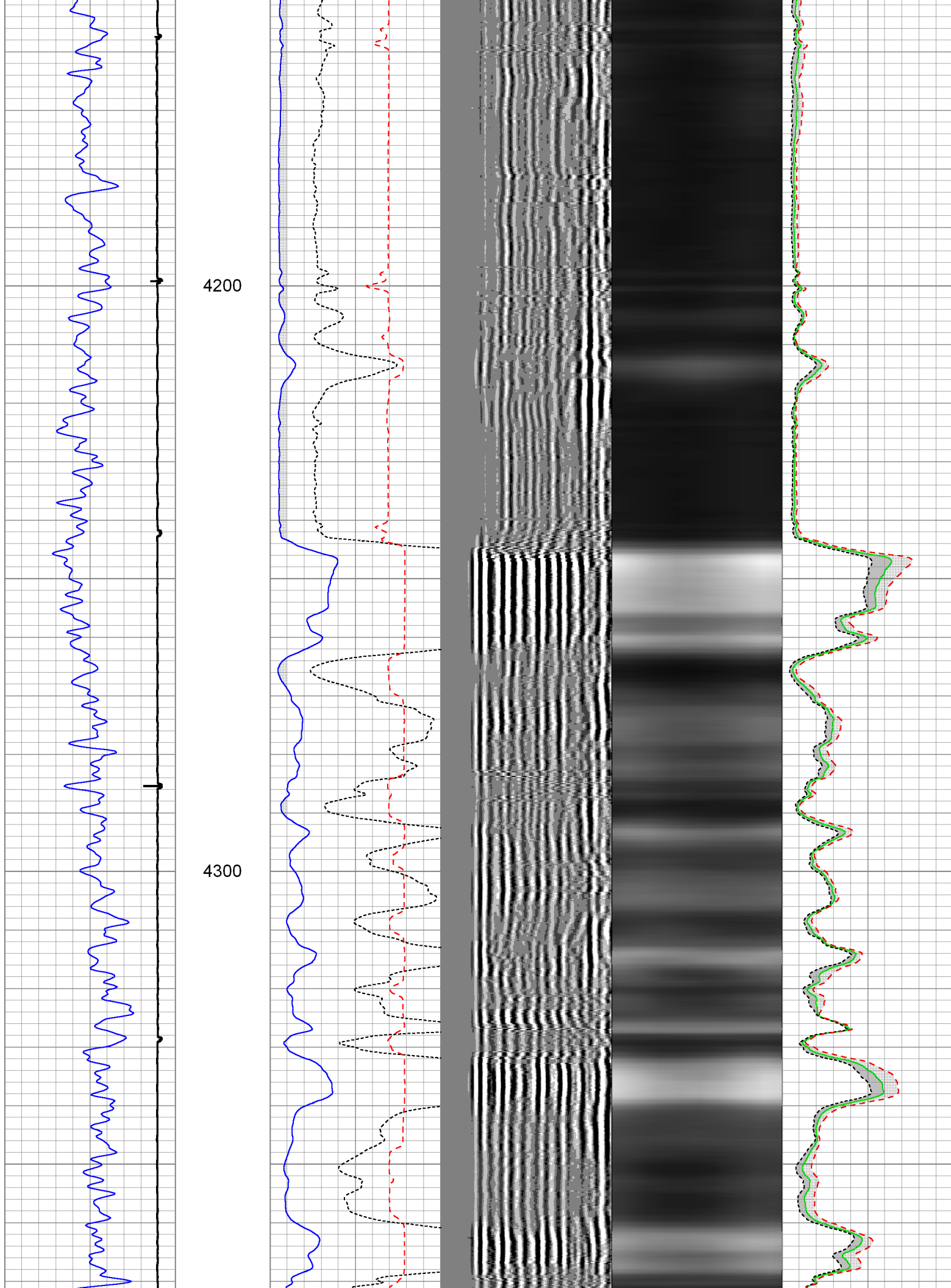
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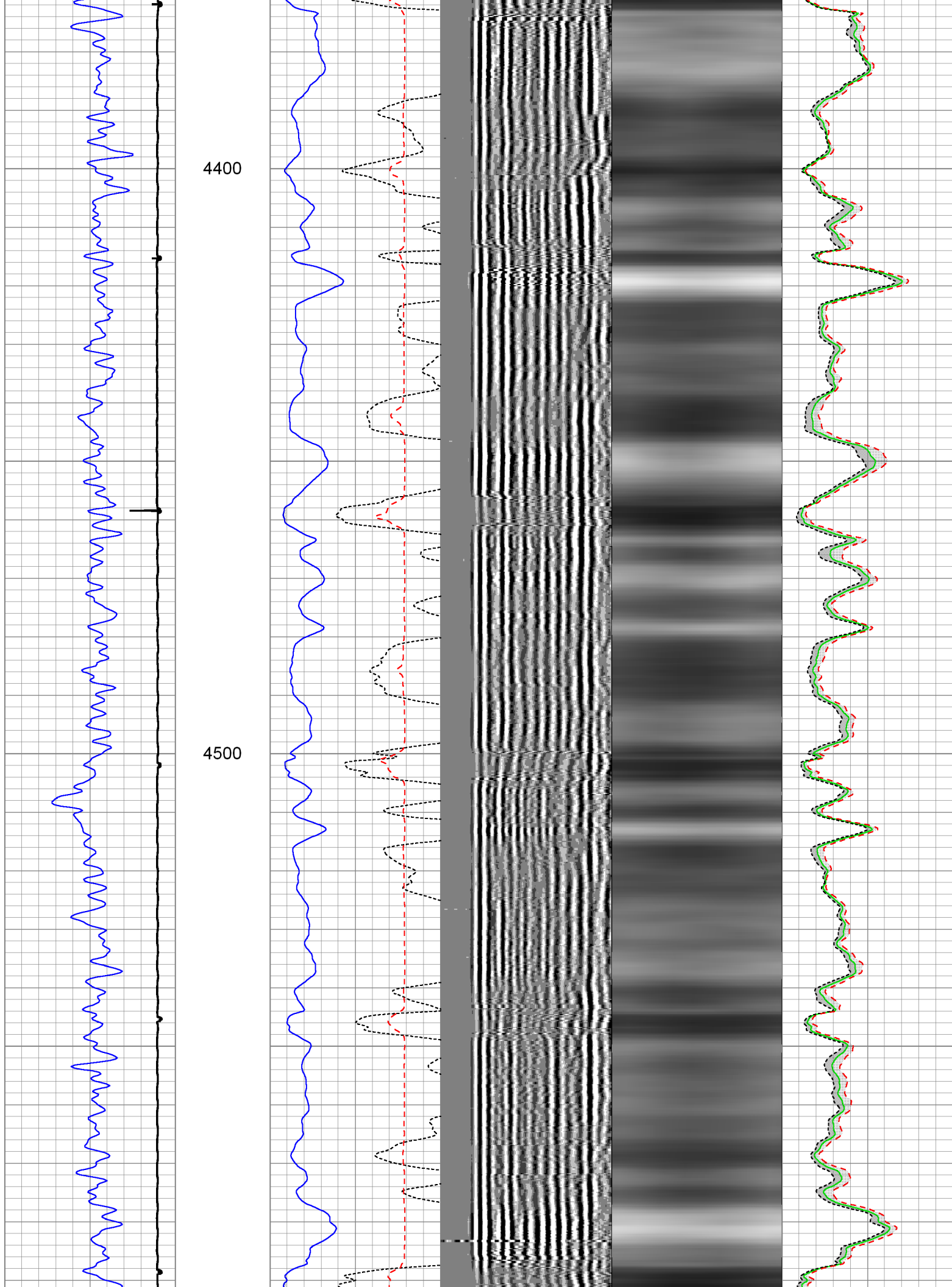


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4300





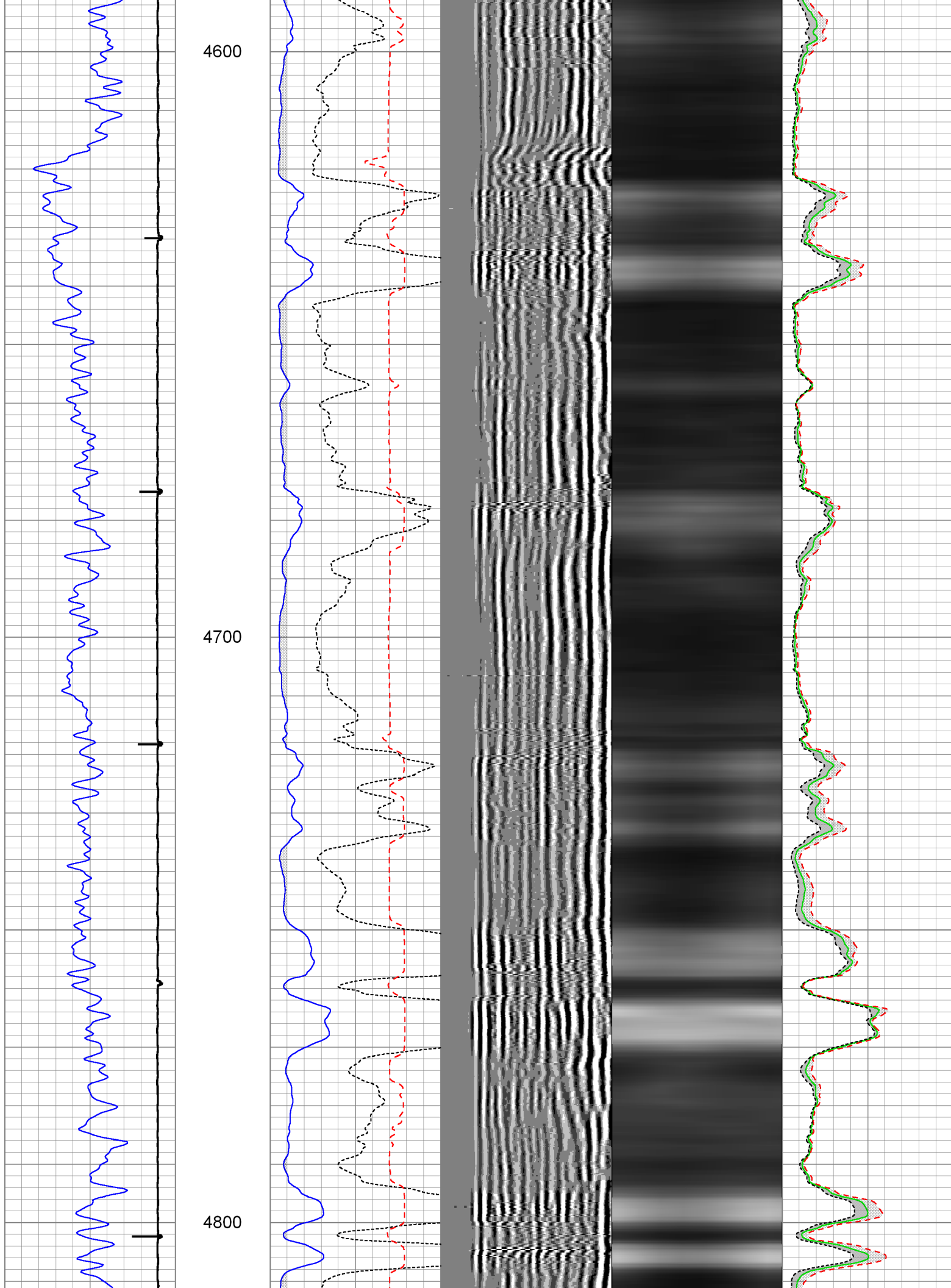


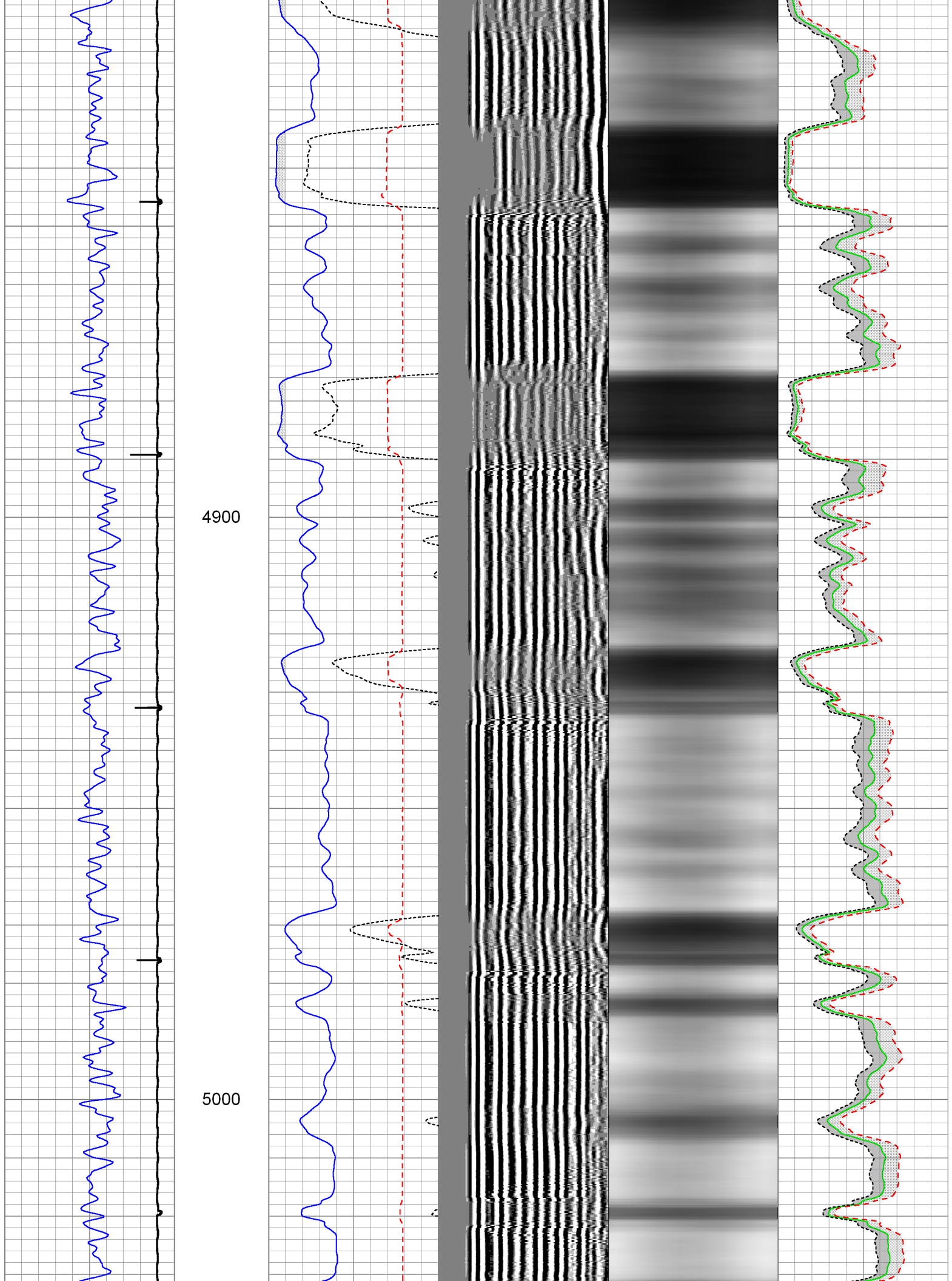


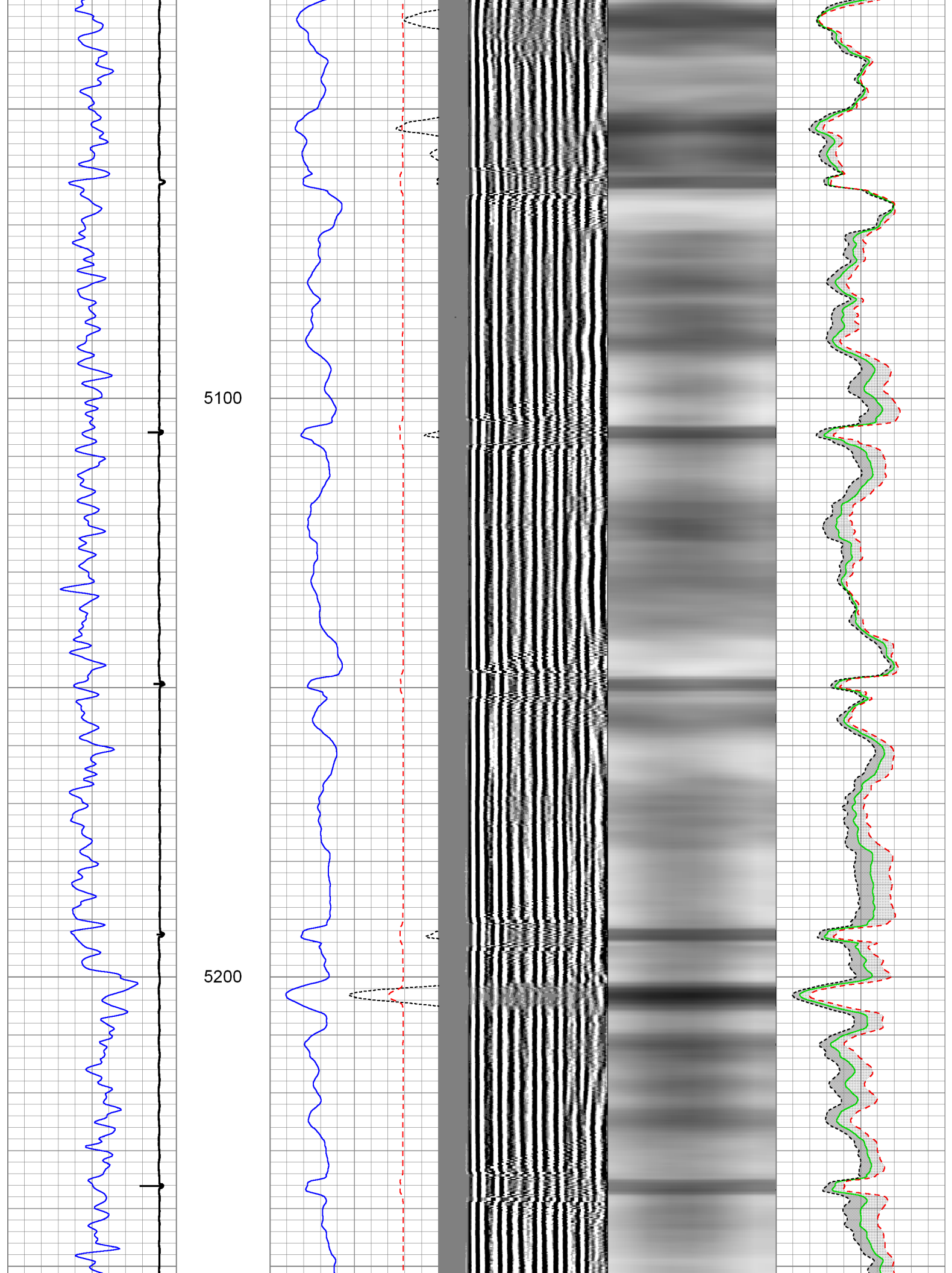
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4800

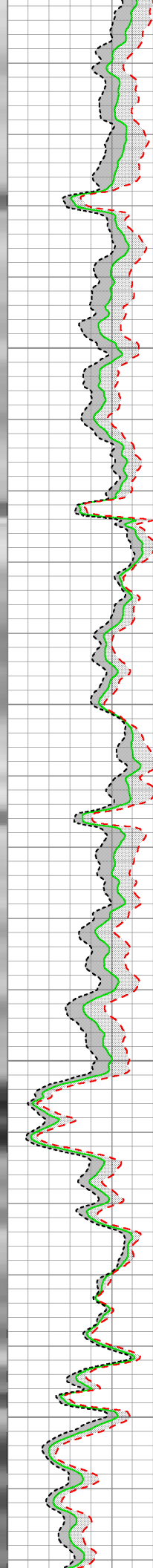
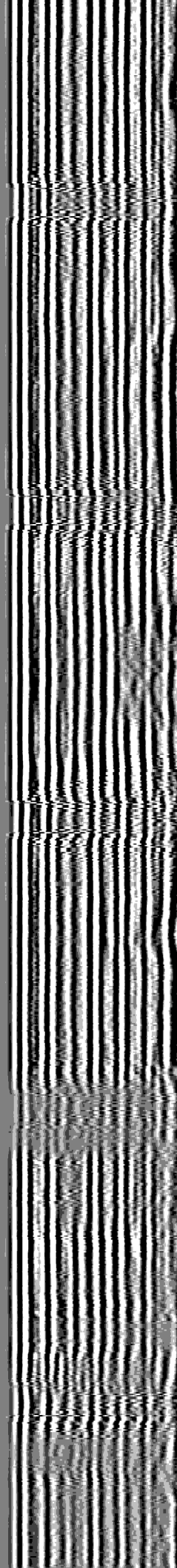






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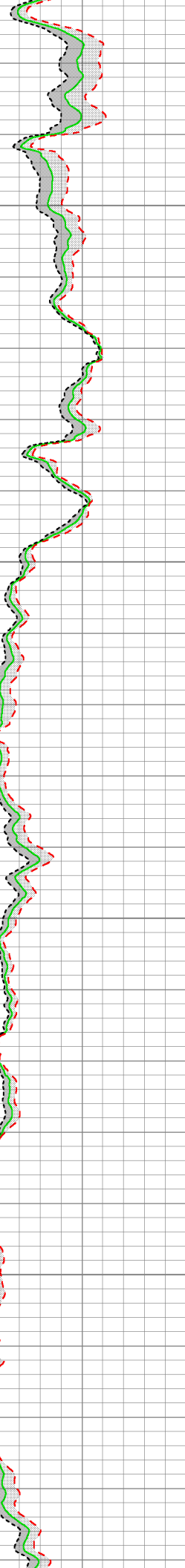
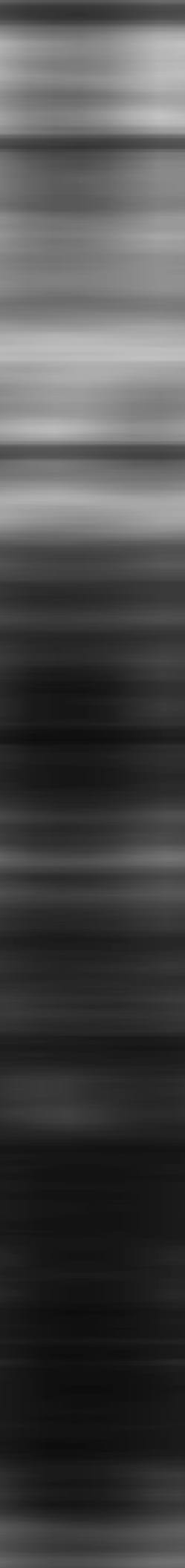
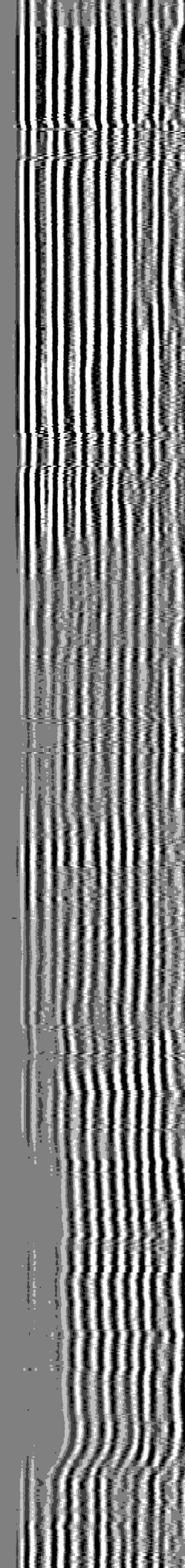
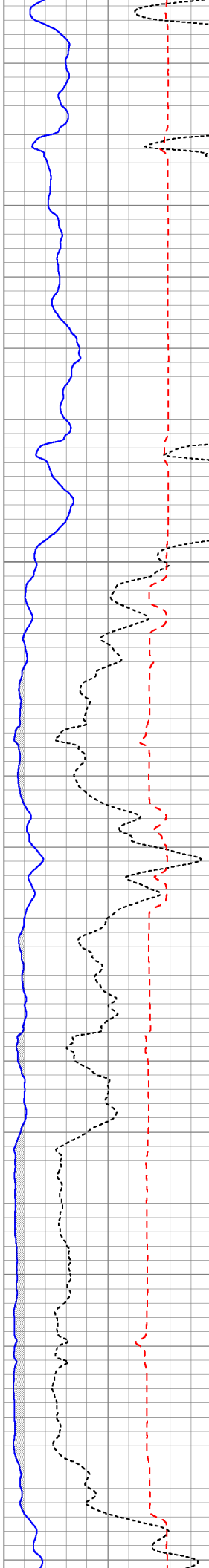
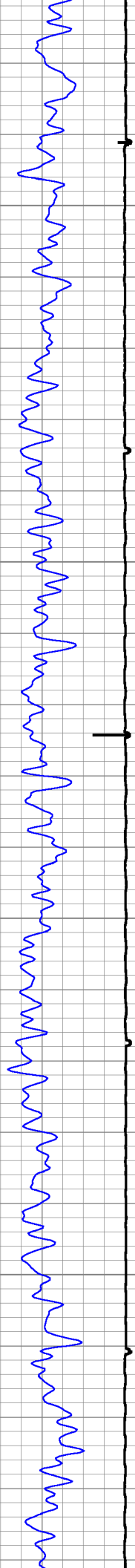
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5500

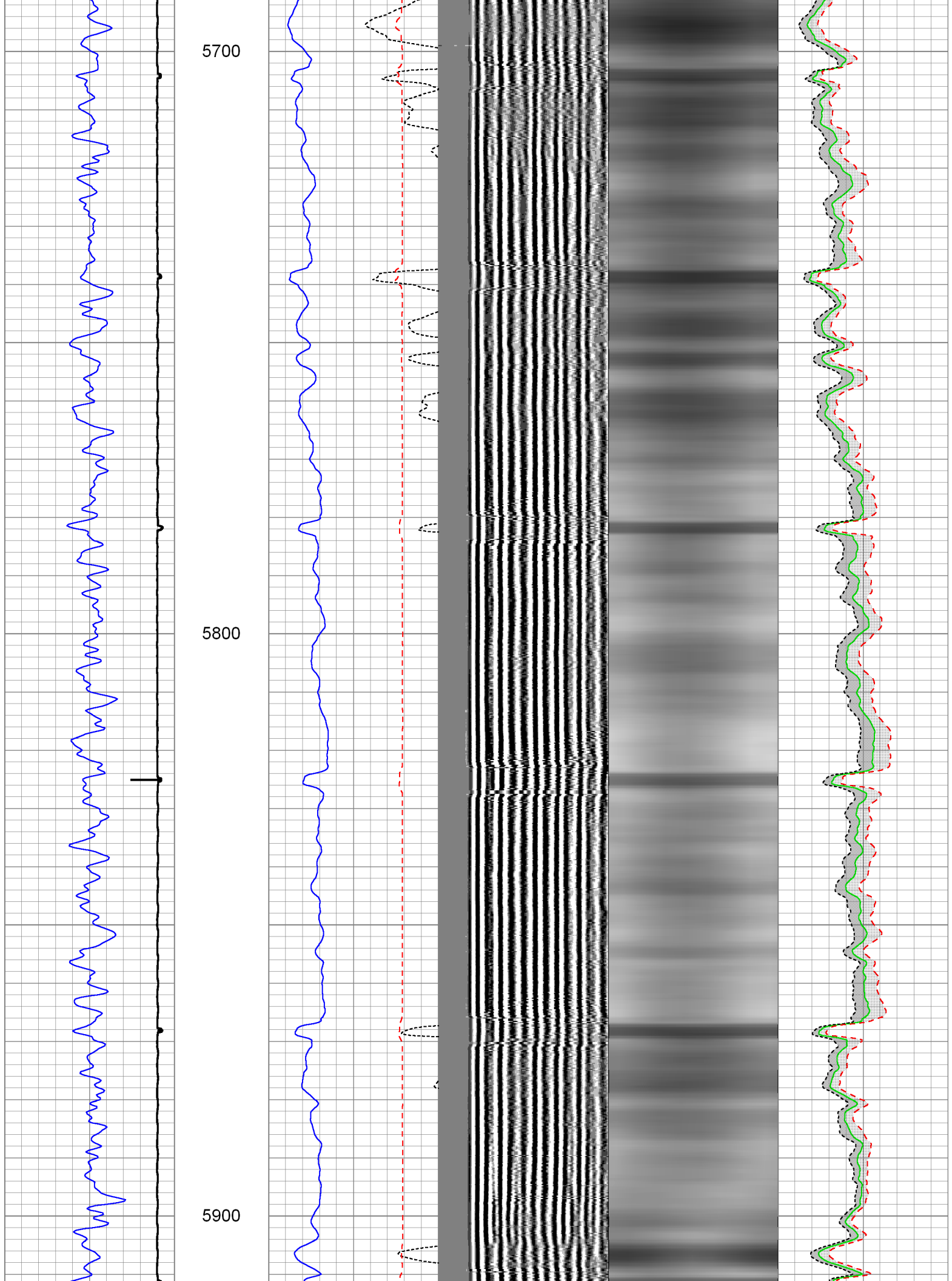
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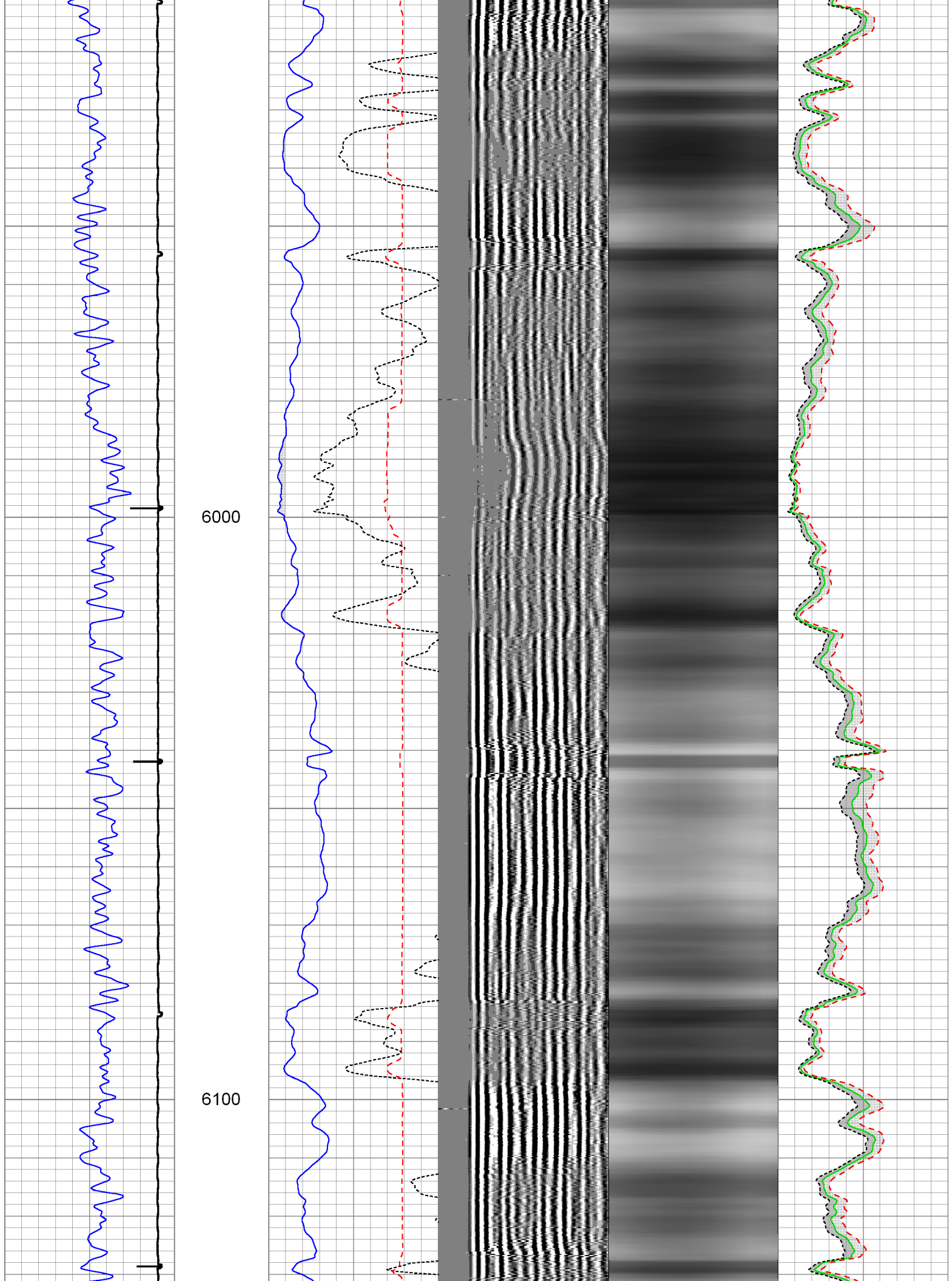
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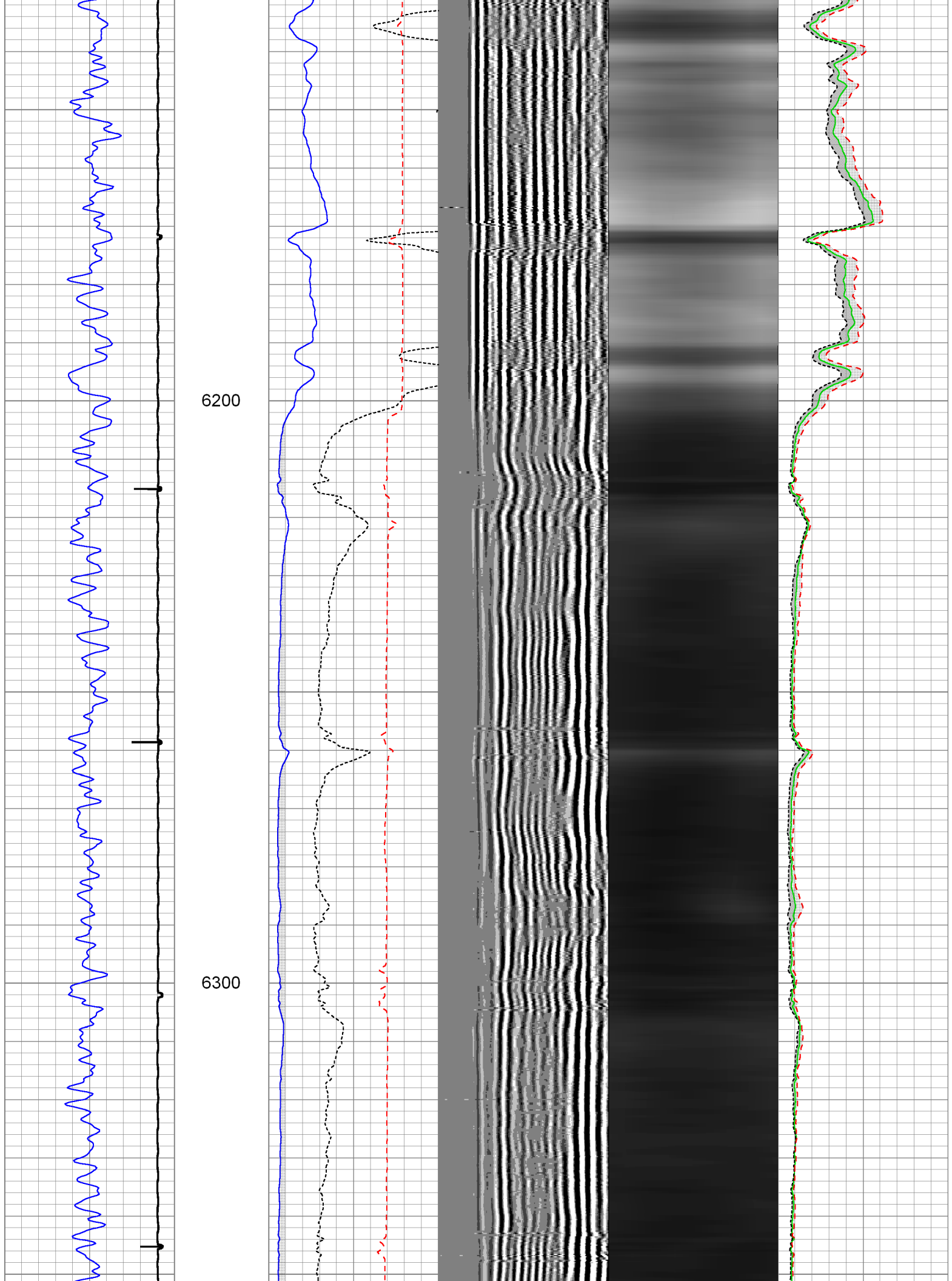
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5900









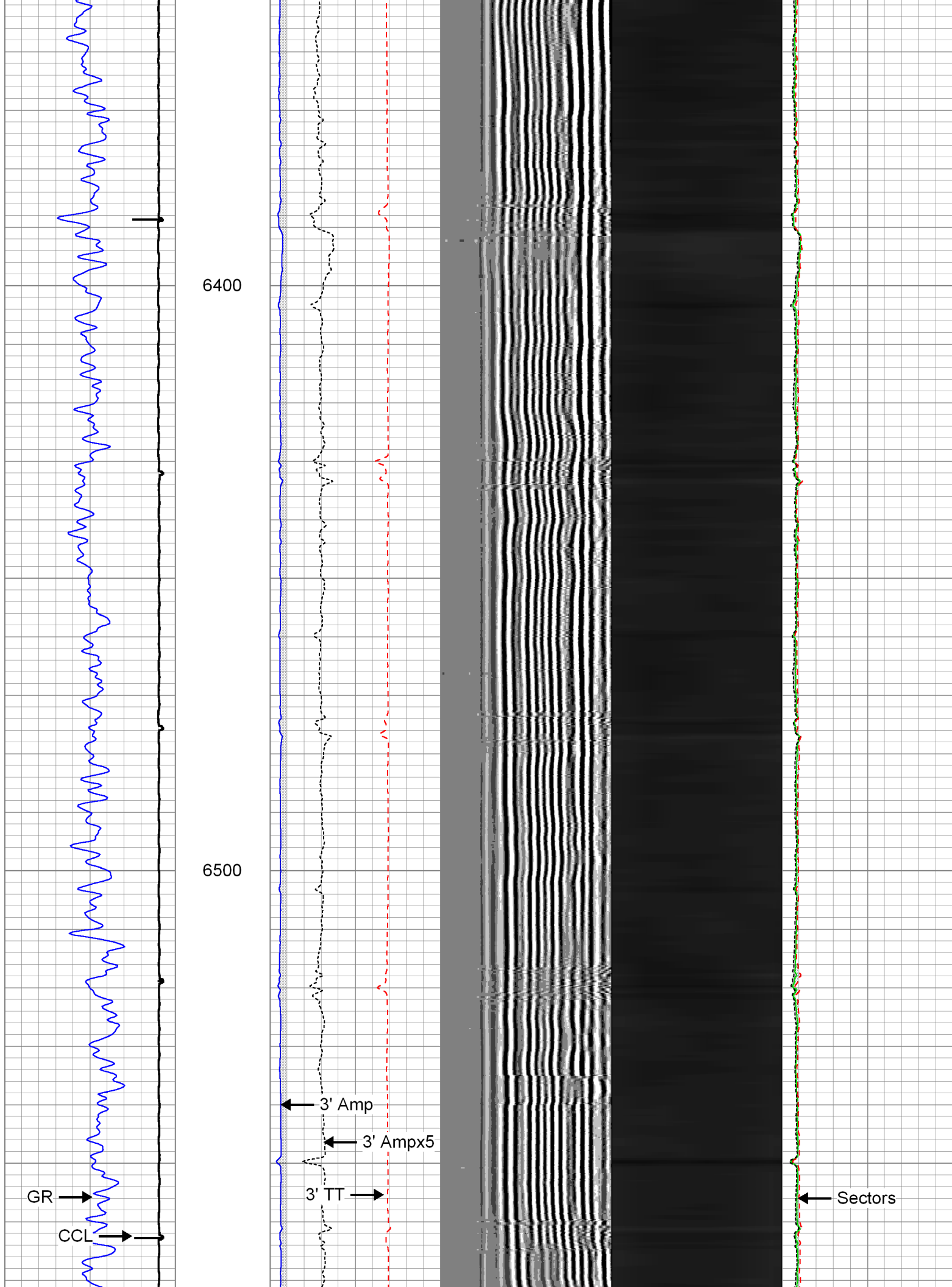
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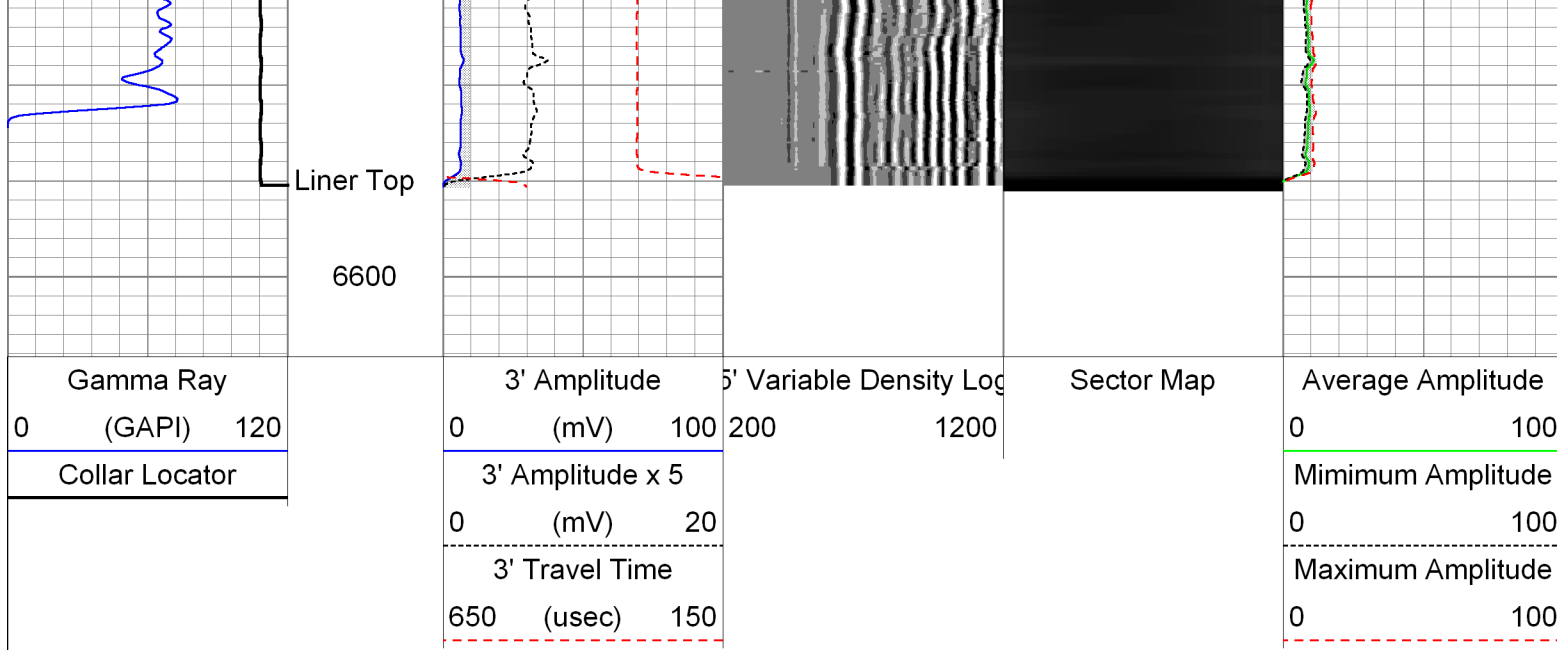
6500

GR →  
CCL →

← 3' Amp  
← 3' Ampx5  
3' TT →

← Sectors

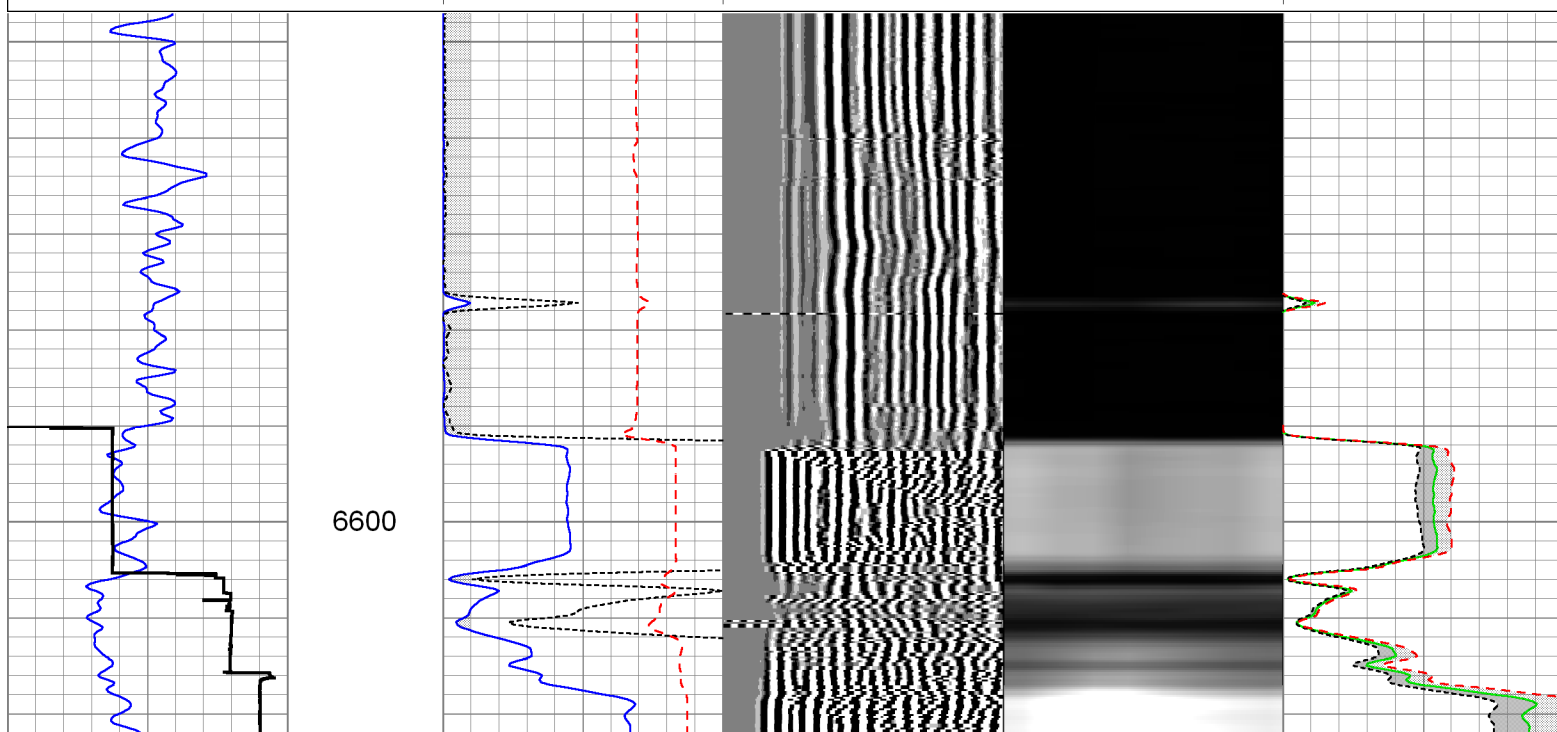
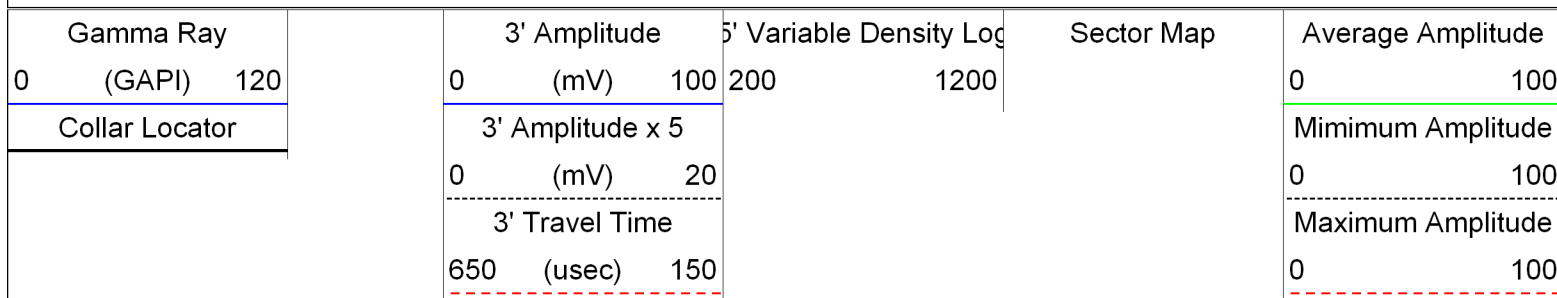




## 4.5 Inch Main Pass

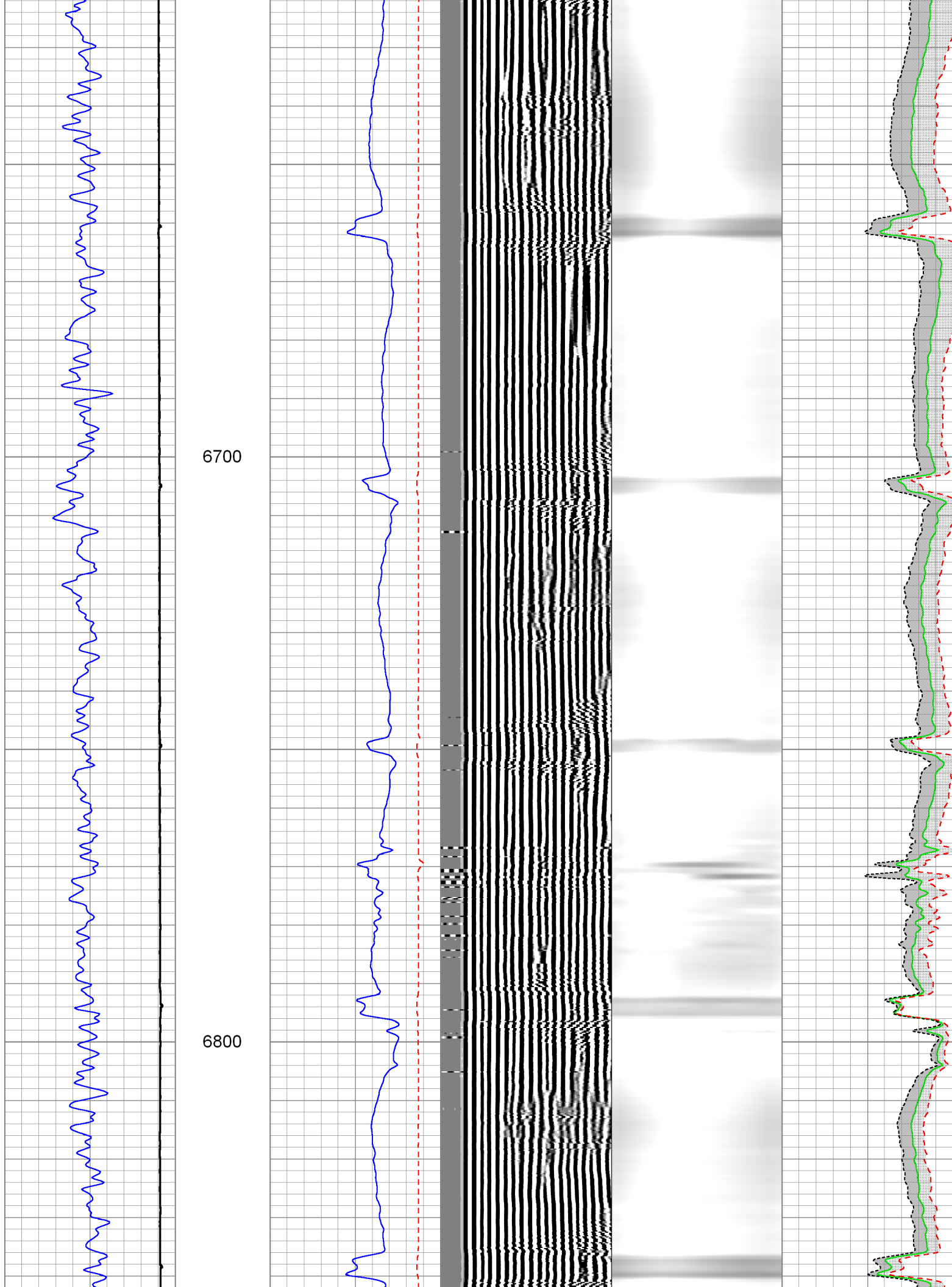
Logged With 2200 PSI At Surface

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 Dataset Pathname: 4.5mian  
 Presentation Format: rbt007  
 Dataset Creation: Sat Apr 12 16:34:07 2014 by Log Sondex V7.03  
 Charted by: Depth in Feet scaled 1:240



6700

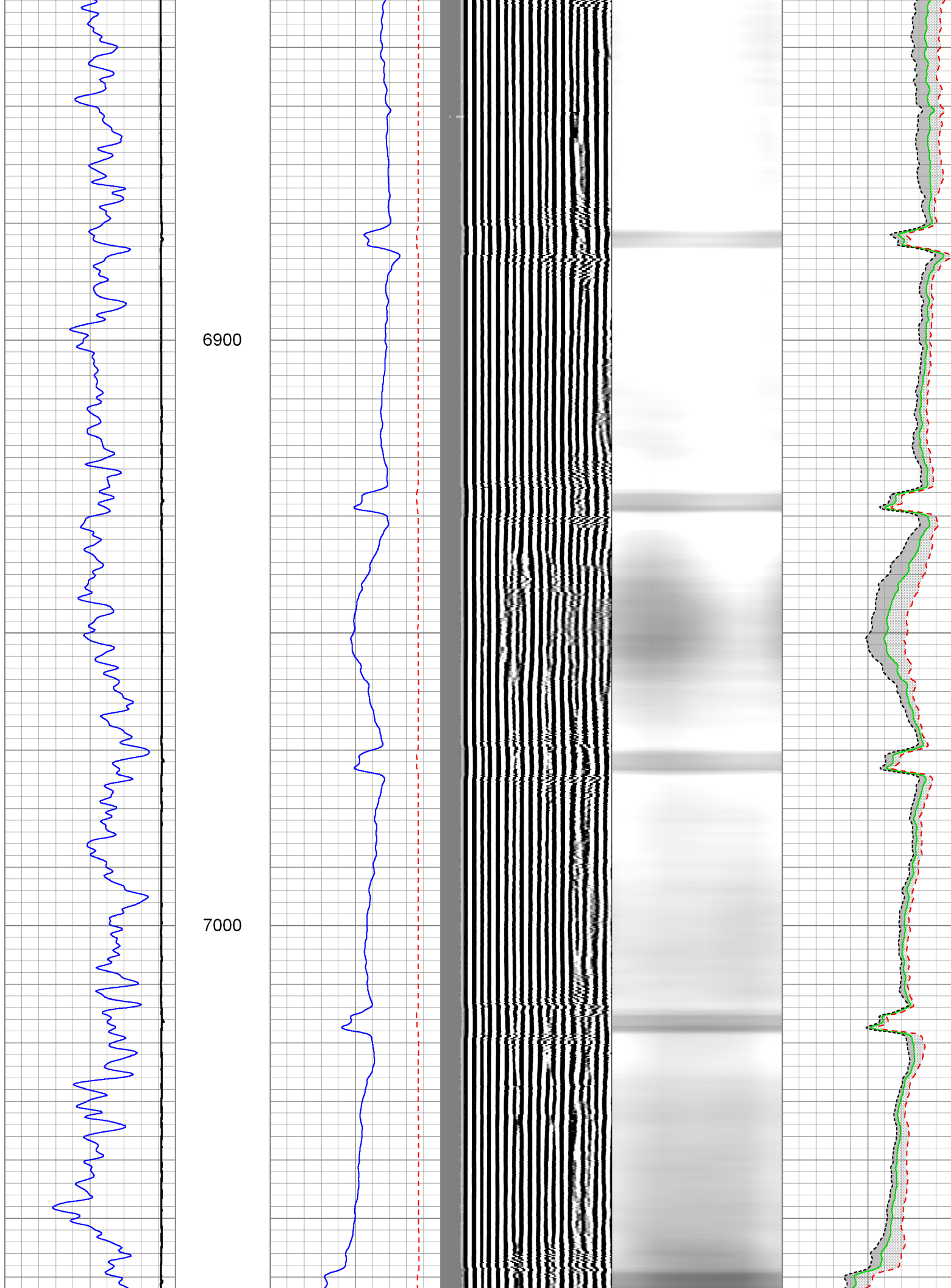
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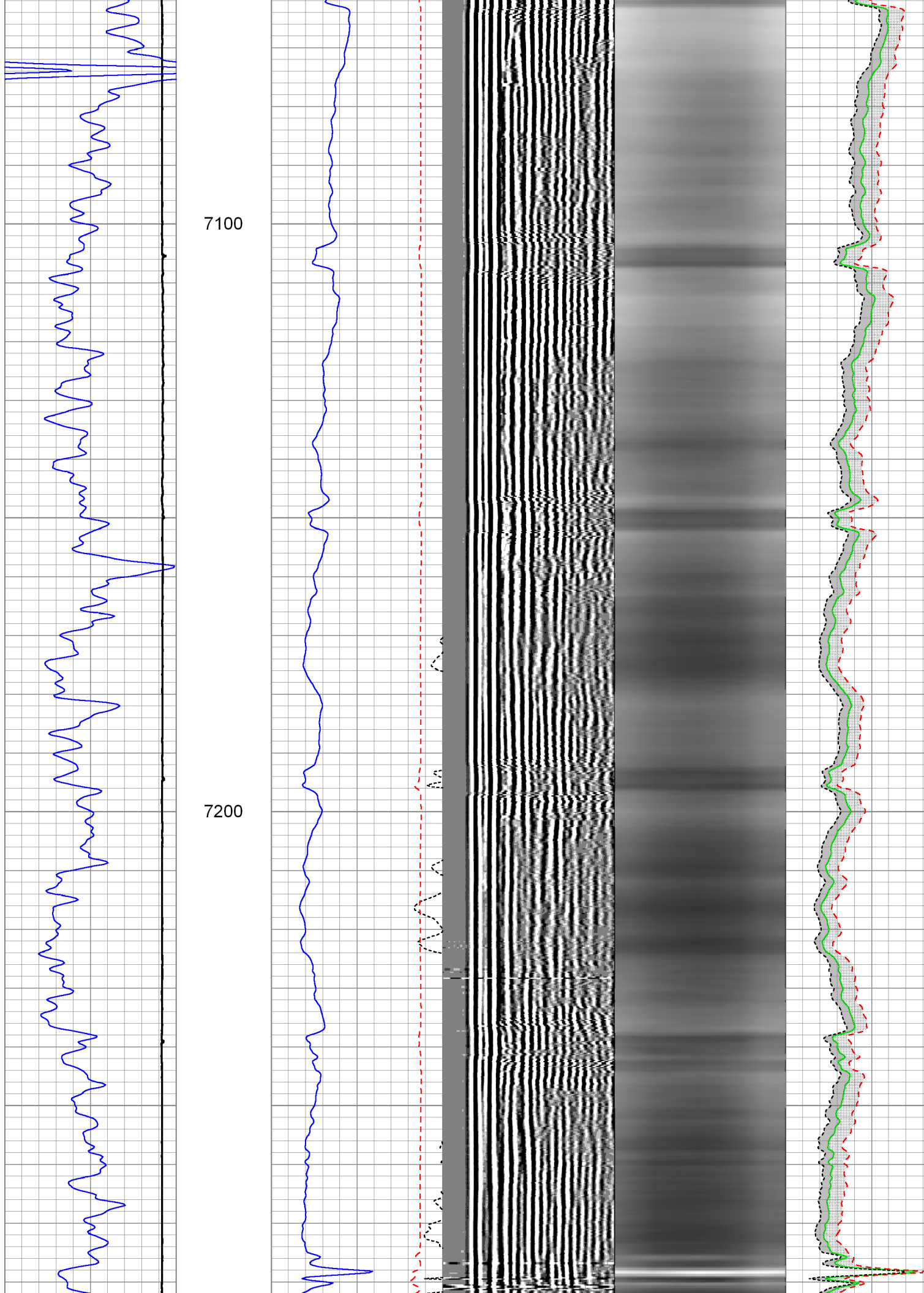
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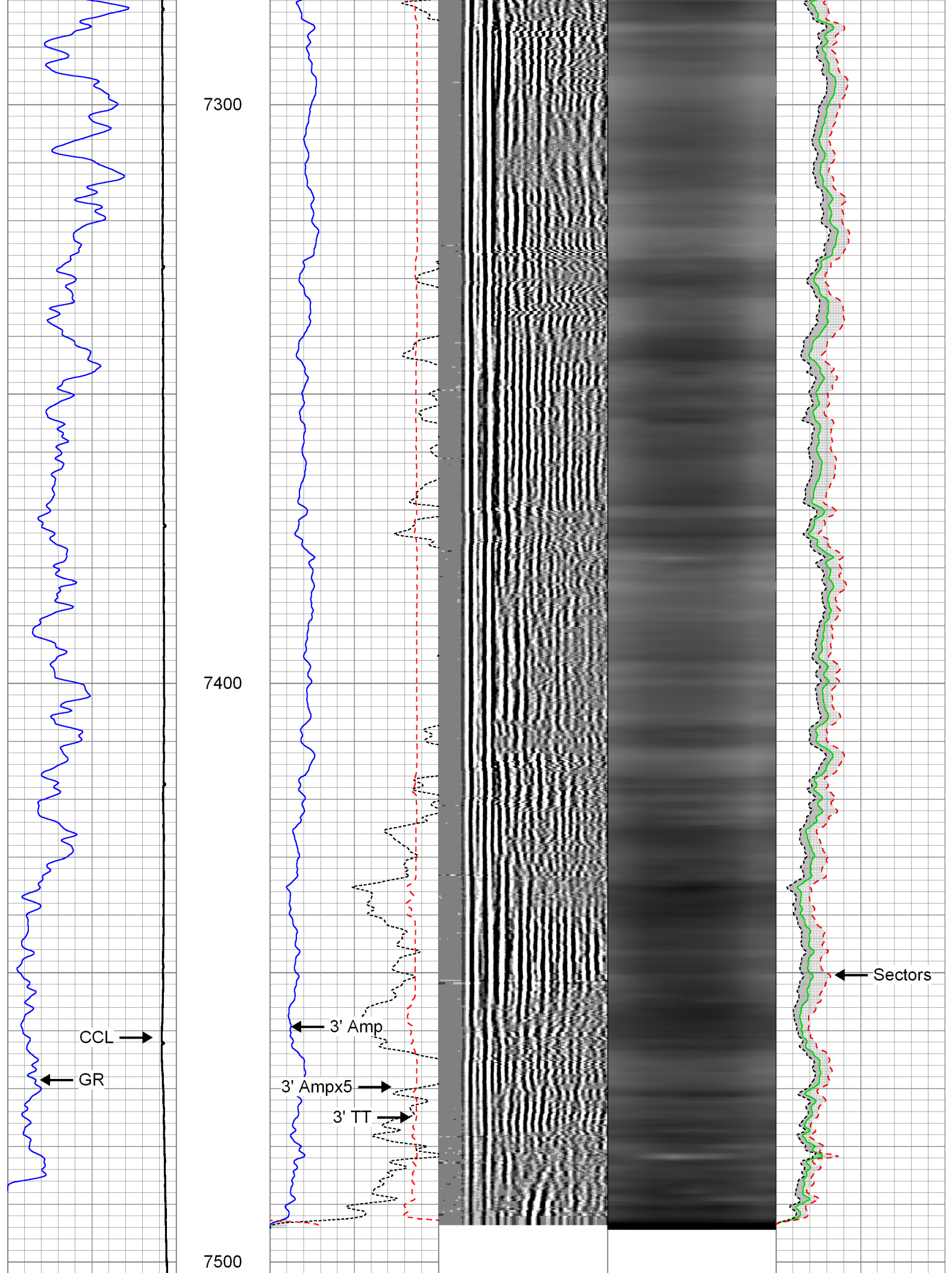
7000




7100

7200





Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120		0 (mV) 100	200 1200		0 100
Collar Locator		3' Amplitude x 5			Minimum Amplitude
		0 (mV) 20			0 100
		3' Travel Time			Maximum Amplitude
		650 (usec) 150			0 100



# Repeat Pass

Logged With 2200 PSI At Surface

Database File:

Dataset Pathname:

Presentation Format:

Dataset Creation:

Charted by:

0512338184\_anadarko\_kerbs 32c-14hz\_04-12-14\_mit\_rbl.db

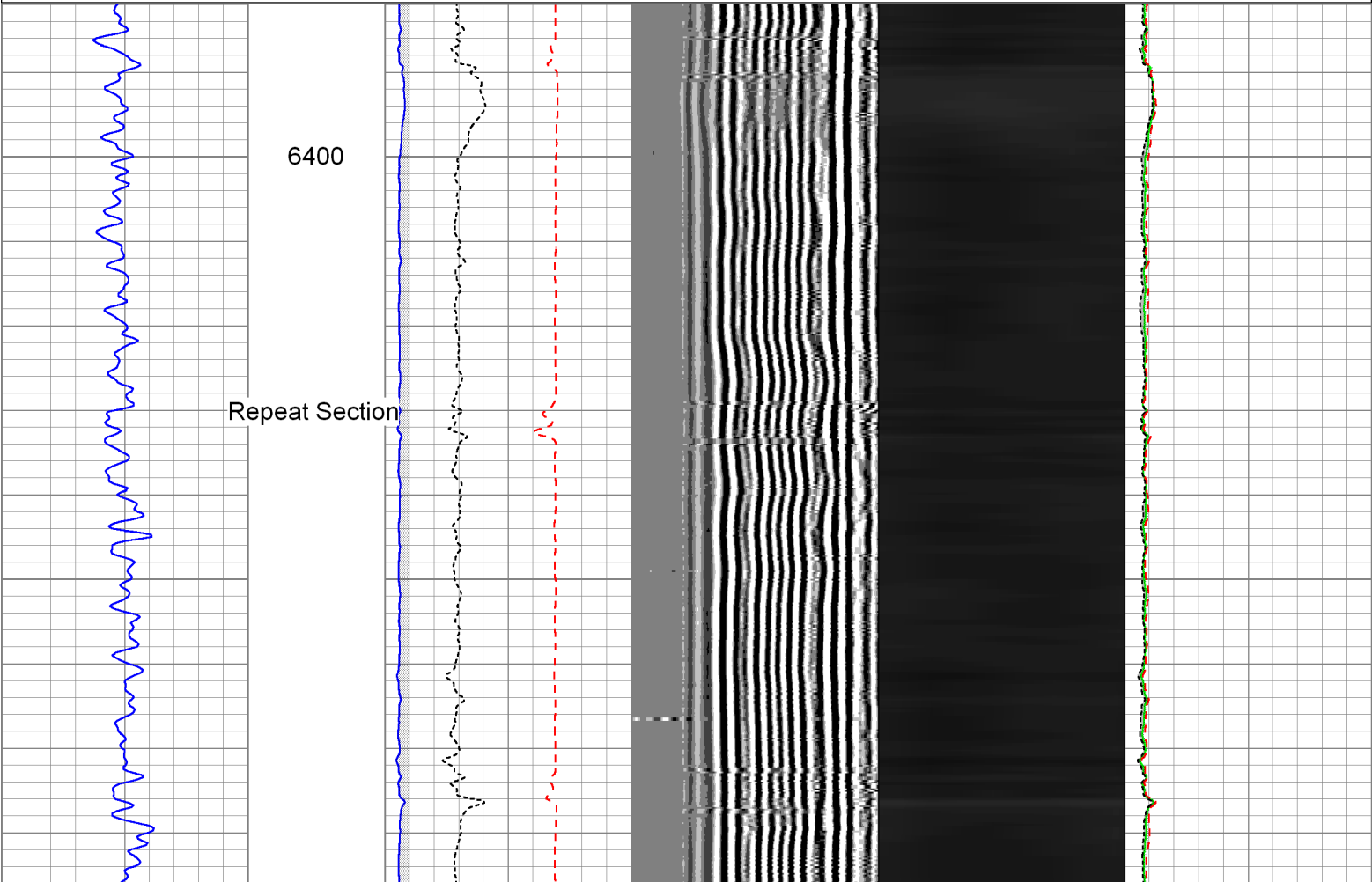
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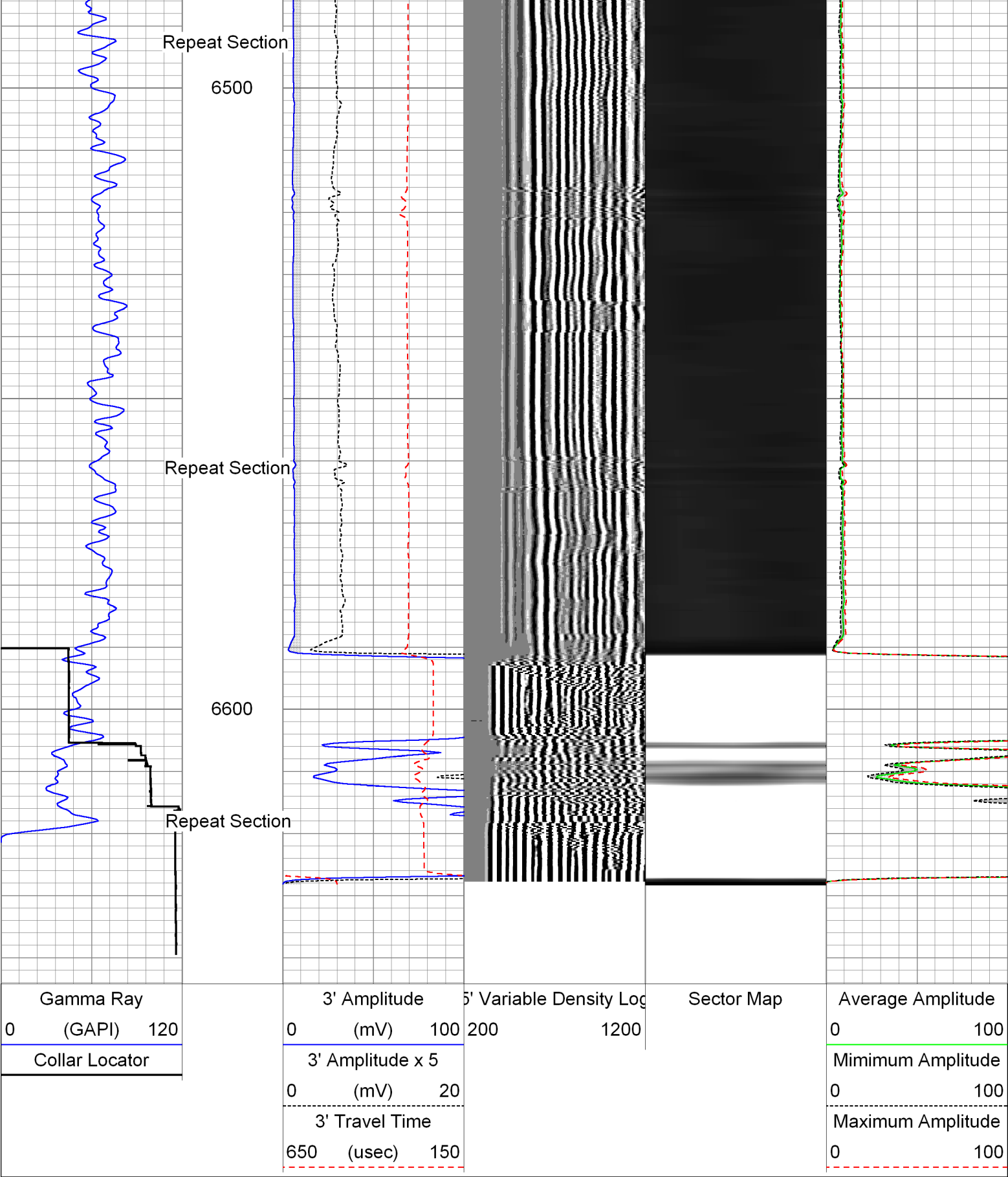
rbt007


Sat Apr 12 15:57:26 2014 by Log Sondex V7.03

Depth in Feet scaled 1:240

Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120		0 (mV) 100	200 1200		0 100
Collar Locator		3' Amplitude x 5			Minimum Amplitude
		0 (mV) 20			0 100
		3' Travel Time			Maximum Amplitude
		650 (usec) 150			0 100





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (218874) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50



GR	24.88		PGR-020 (211727) Production Gamma Ray	1.93	1.69	9.50
			PRC-017 (000002) Production Roller Centraliser (3 Arm)	2.01	1.69	7.00
WVF3FT	18.03		RBT-004 (10012639in7) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
WVFS1	18.03					
WVFS2	18.03					
WVFS3	18.03					
WVFS4	18.03					
WVFS5	18.03					
WVFS6	18.03					
WVFS7	18.03					
WVFS8	18.03					
CBLTEMP	18.03					
CBLROT	18.03					
WVF5FT	17.03		PRC-001 (10) Production Roller Centraliser (3 Arm)	1.92	1.69	7.00
			PKJ-013 (000001) Production Knuckle Joint	0.57	1.69	3.50
			PRC-034 (000006) Production Roller Centraliser (4 Arm)	2.91	1.69	13.00
MIT	5.17		MIT-042 (10014703notemp) 40 Multifinger Imaging Tool	4.54	2.75	61.10
			PRC-057 (000007) Production Roller Centraliser (4 Arm)	2.74	2.75	32.00
TSTAMP	0.00		BUL-006 (000002) Bullnose Terminator	0.22	1.69	1.20
Dataset: 0512338184_anadarko_kerbs 32c-14hz_04-12-14_mit_rbl.db: field/well/run1/7main1 Total Length: 28.92 ft Total Weight: 282.80 lb O.D. 3.13 in						

