



**Radial Cement Bond  
Gamma Ray  
Casing Collar Log**

Company	WPX Energy Rocky Mountain LLC	Company	WPX Energy Rocky Mountain LLC
Well	Jolley KP 533-17	Well	Jolley KP 533-17
Field	Kokopelli	Field	Kokopelli
County	Garfield	County	Garfield
State	Colorado	State	Colorado
Location:	API #: 05-045-17112		Other Services
Permanent Datum	SEC 17 TWP 6S RGE 91W	Ground Level	Elevation 6198'
Log Measured From	Kelly Bushing	Elevation	22 FT
Drilling Measured From	Kelly Bushing	K.B. 6220'	D.F. 6219'
		G.L. 6198'	

Date	28-APR-2015
Run Number	Two
Depth Driller	7243 FT
Depth Logger	5413 FT
Bottom Logged Interval	4732 FT
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lb/gal
Max. Recorded Temp.	---
Estimated Cement Top	292 FT
Time Well Ready	13:20
Time Logger on Bottom	14:10
Equipment Number	HD-0264
Location	Grand Junction, CO
Recorded By	Dustin Shannon
Witnessed By	Justin Skalla

Run Number	Borehole Record			Tubing Record			
	Bit	From	To	Size	Weight	From	To
1	24"	Surface	60 FT				
2	13.5"	60 FT	1123 FT				
3	7.875"	1123 FT	7243 FT				

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9 5/8	32.3	---	Surface	1353 FT
Intermediate #1					
Intermediate #2	4 1/2	11.6	---	Surface	7156 FT
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**

Log ran as per customer request  
 Depth referenced to a marker joint reported top @ 3649 FT  
 Adjusted log +7 FT to correlate on depth to the marker joint  
 A plug was set @ 4740 and the entire well was filled with water 2.5 hrs prior to Logging  
 Gauge ring/junk basket ran to 5413 FT, could not pass with 3.75" ring  
 Log ran from tubing set plug to surface  
 Fluid level at 44 FT

Thank you for choosing FMC Technologies Completion Services, Inc.!

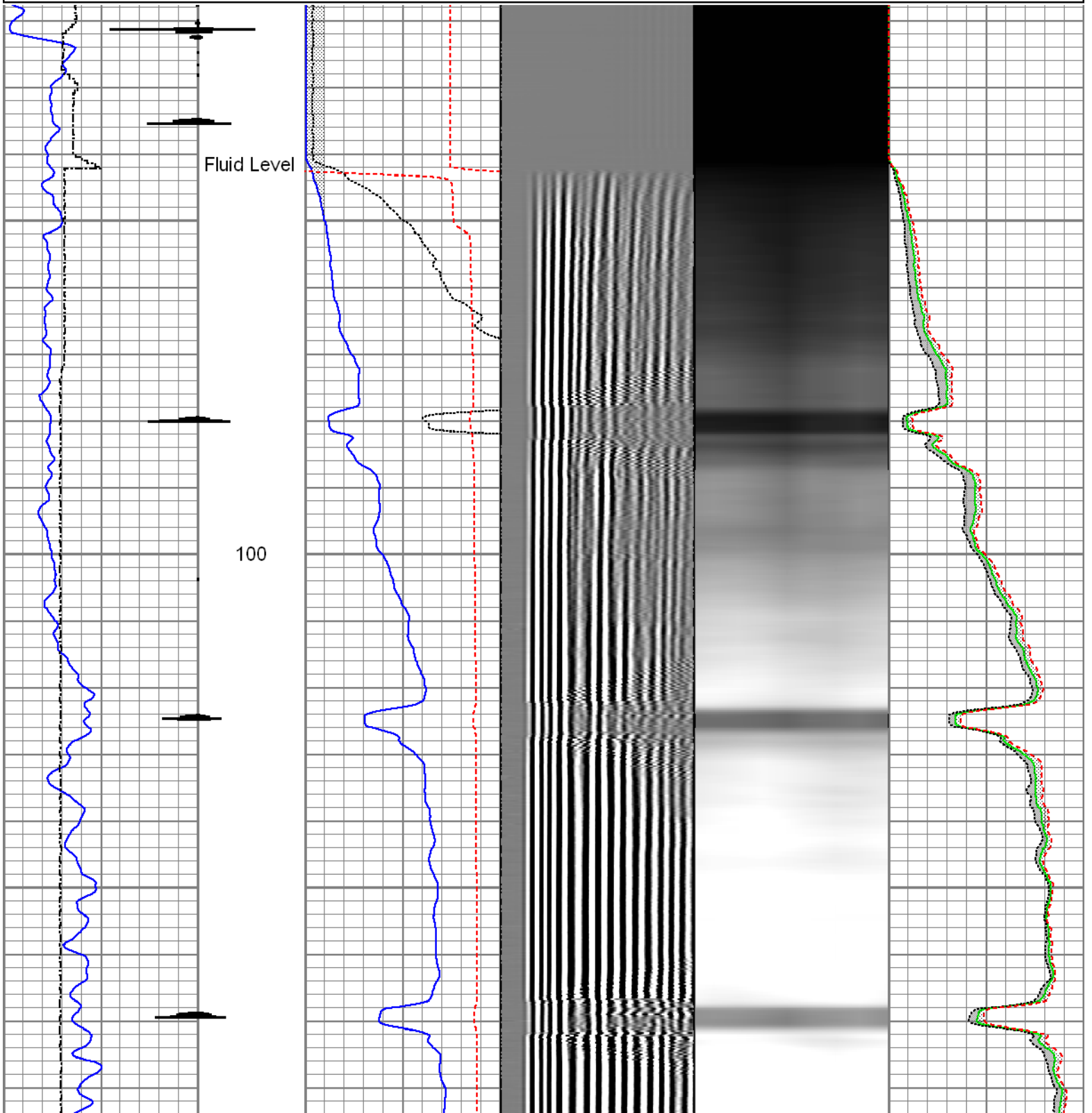


**Main Pass**

Logged With -0- PSI Well Head Pressure

Database File: 04-28-15\_wpx\_jolley kp 533-17\_rbl.db  
 Dataset Pathname: main1.3  
 Presentation Format: rbt007  
 Dataset Creation: Wed Apr 29 13:03:29 2015 by Calc SCH 120430  
 Charted by: Depth in Feet scaled 1:240

Gamma Ray 0 (GAPI) 150	3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Casing Collar Locator	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100
Line Speed -100 (ft/min) 100	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100

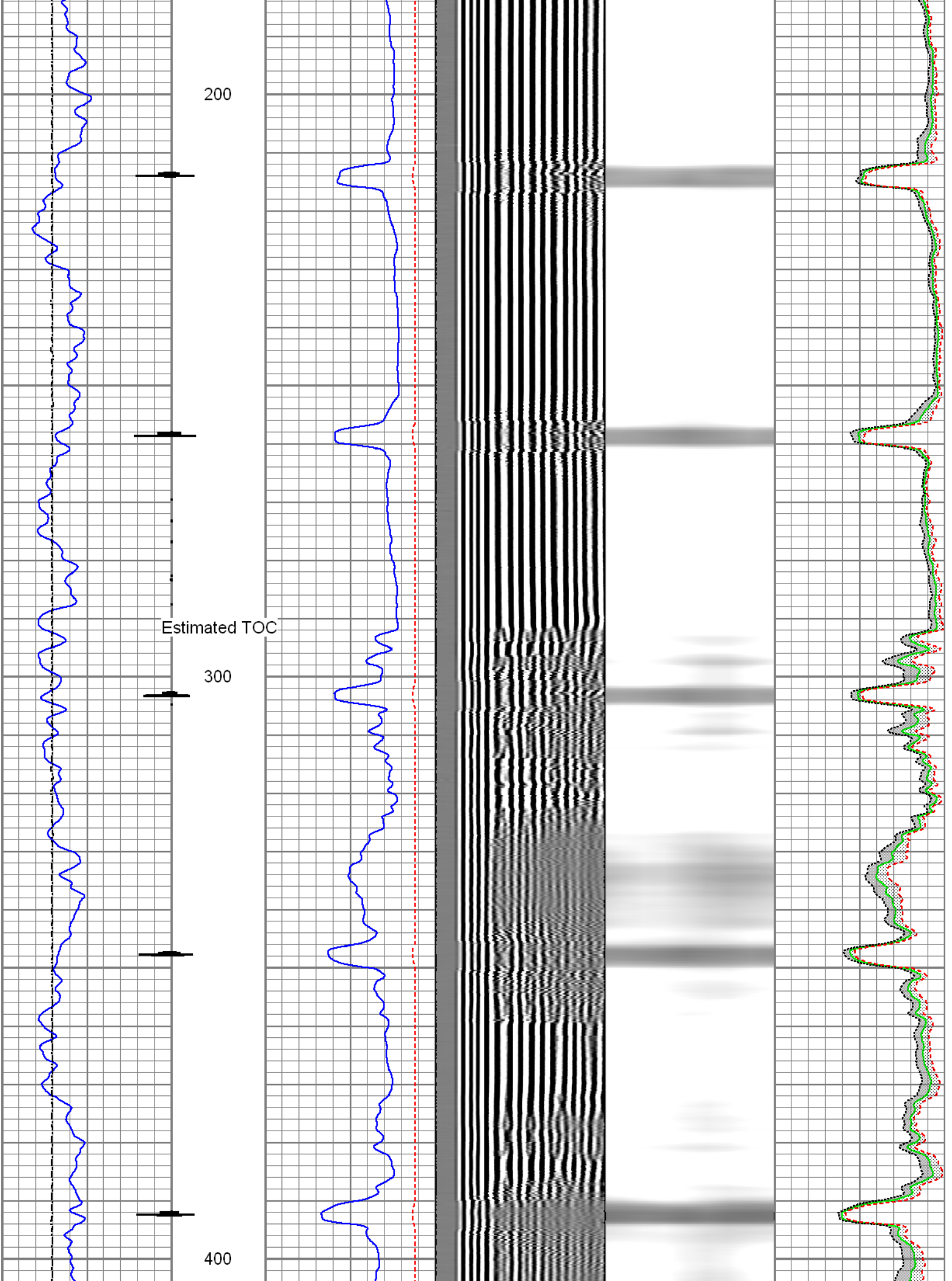


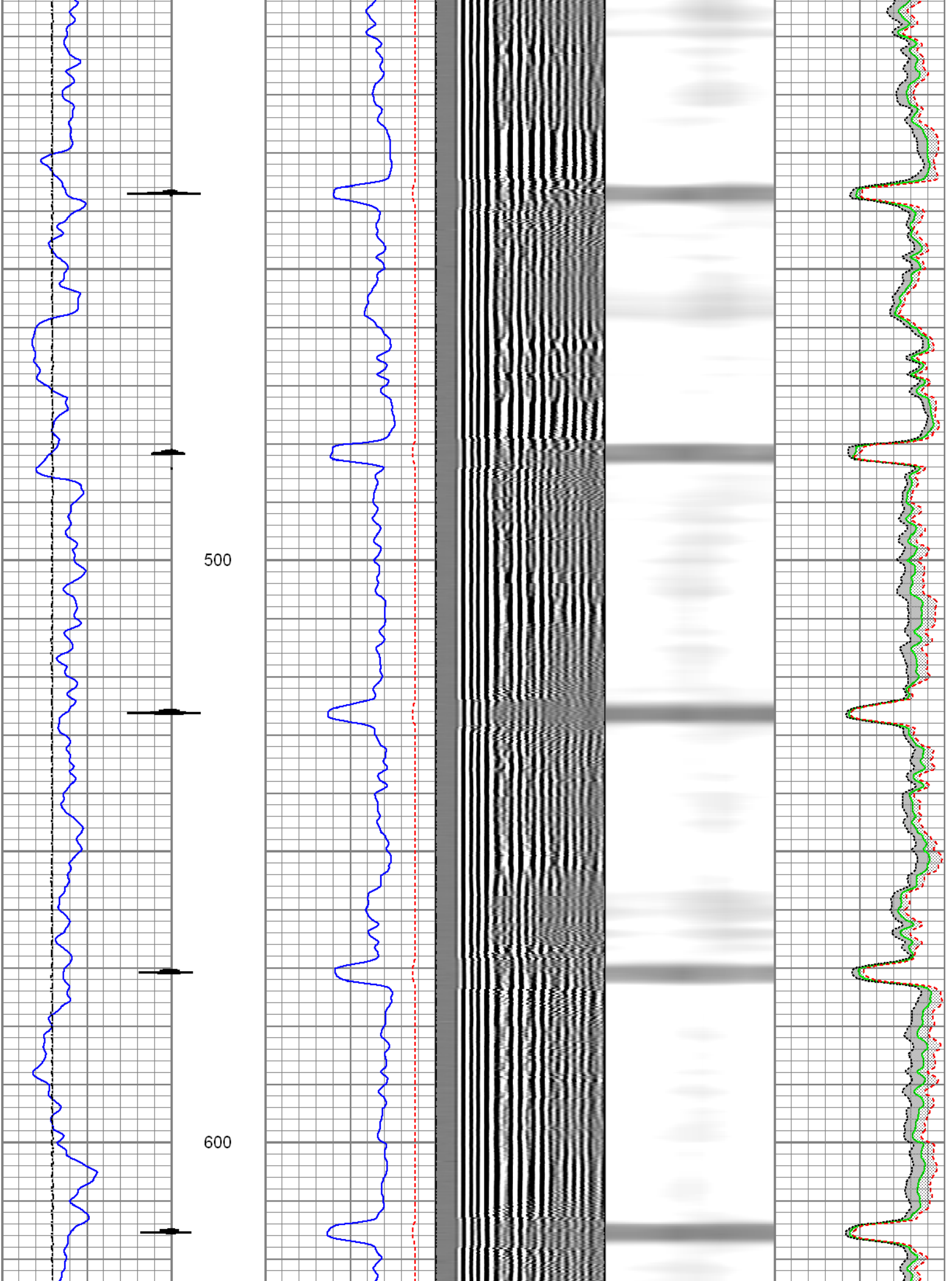
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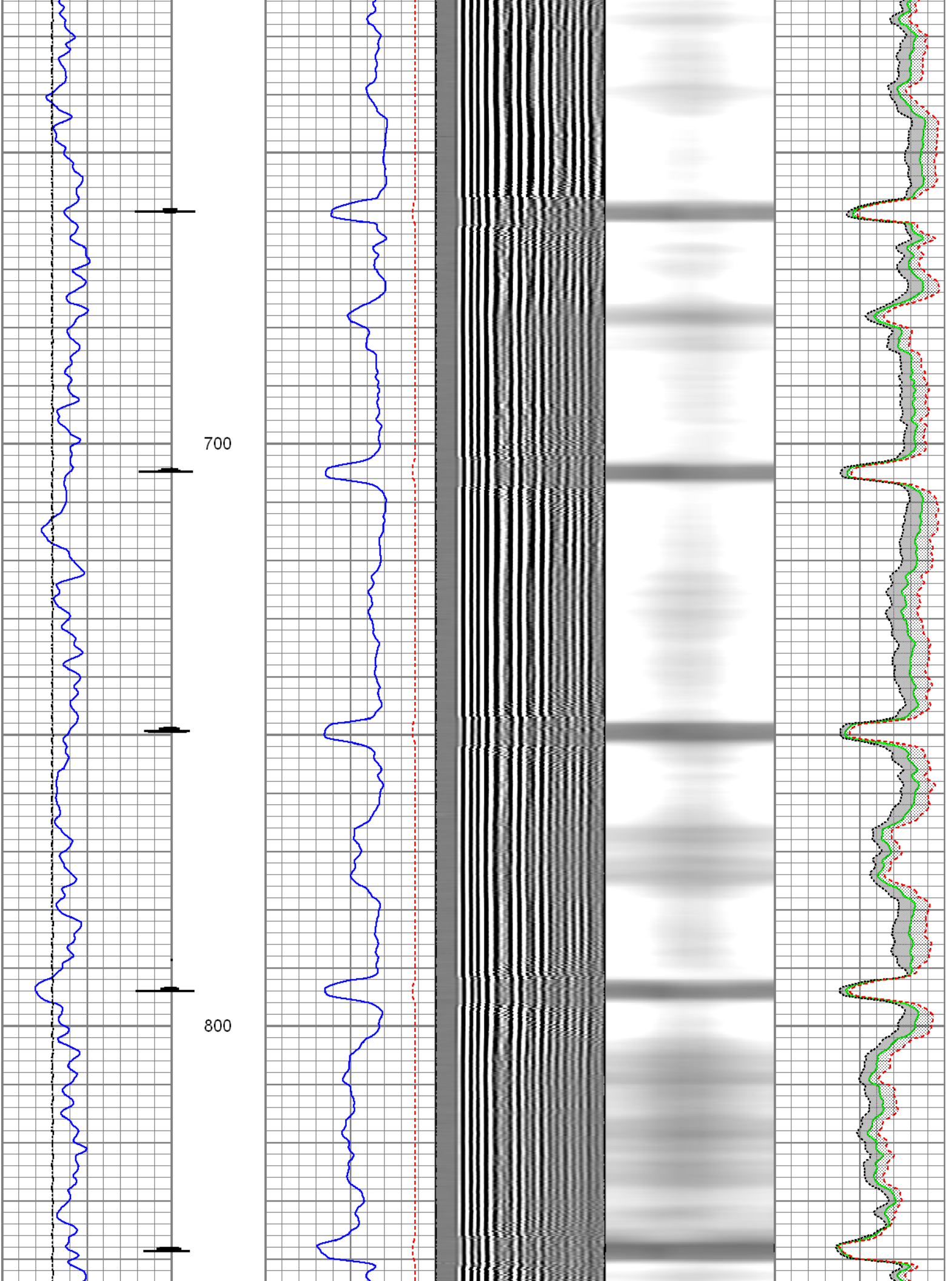
Estimated TOC

300

400

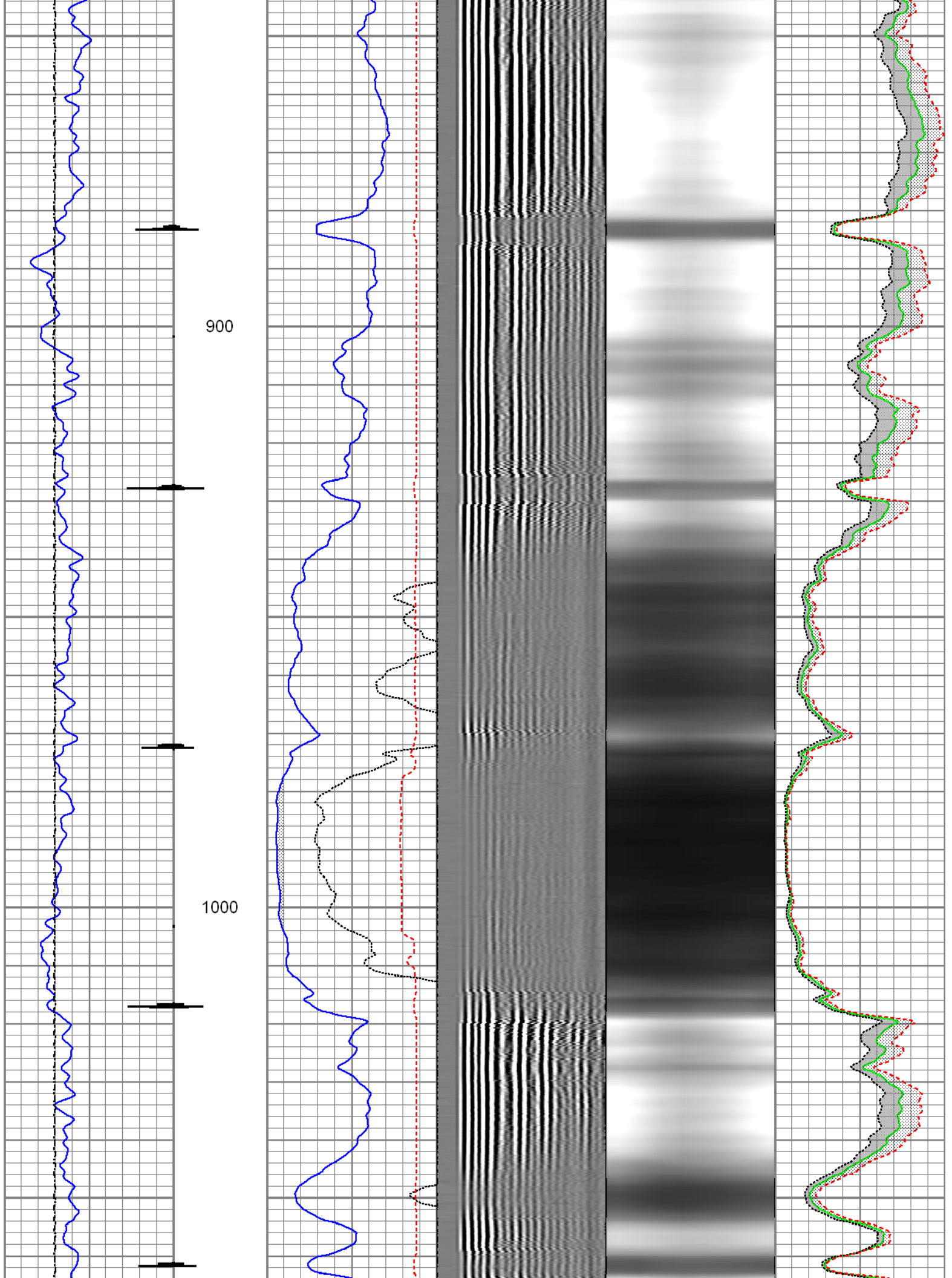


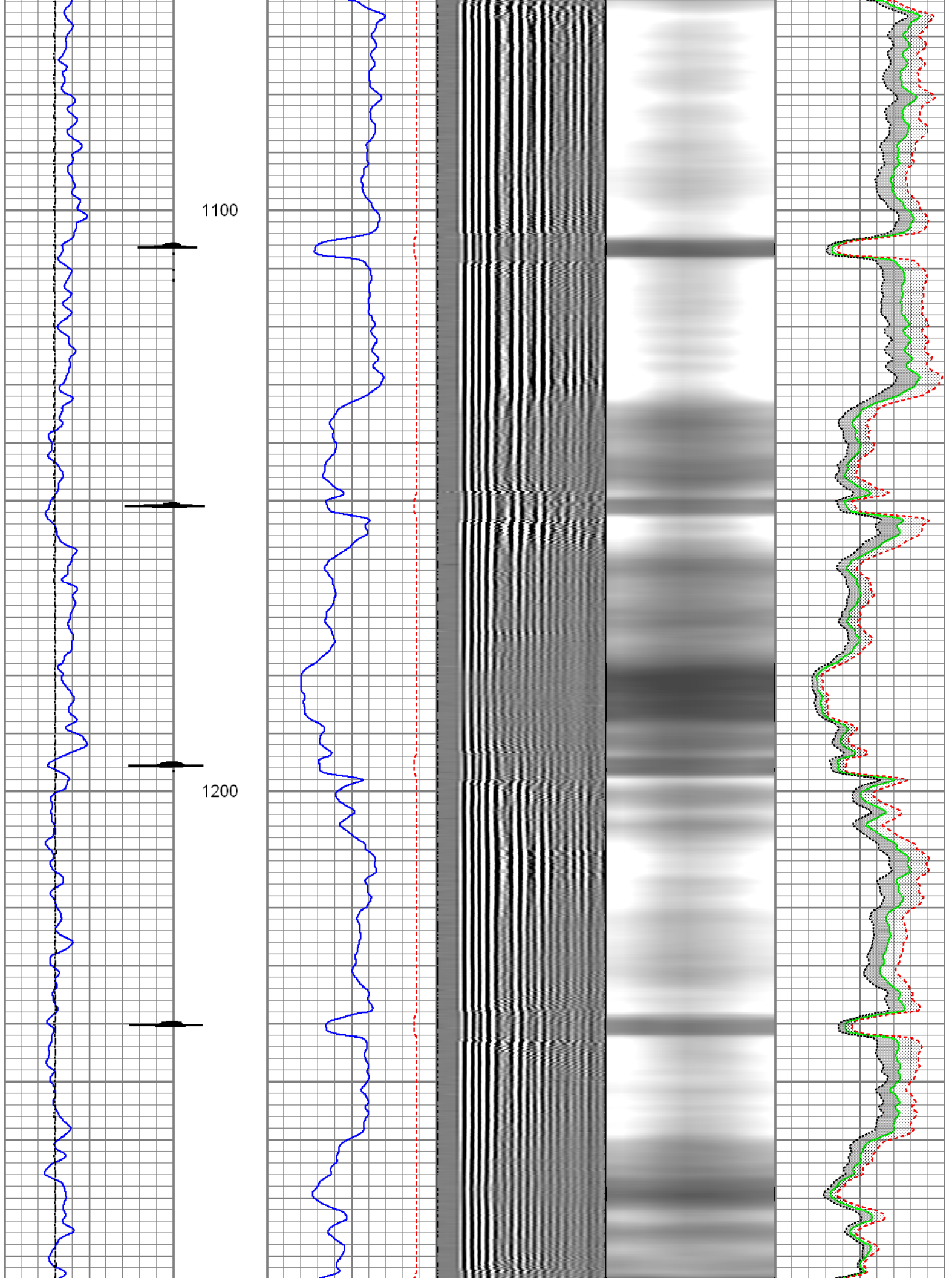


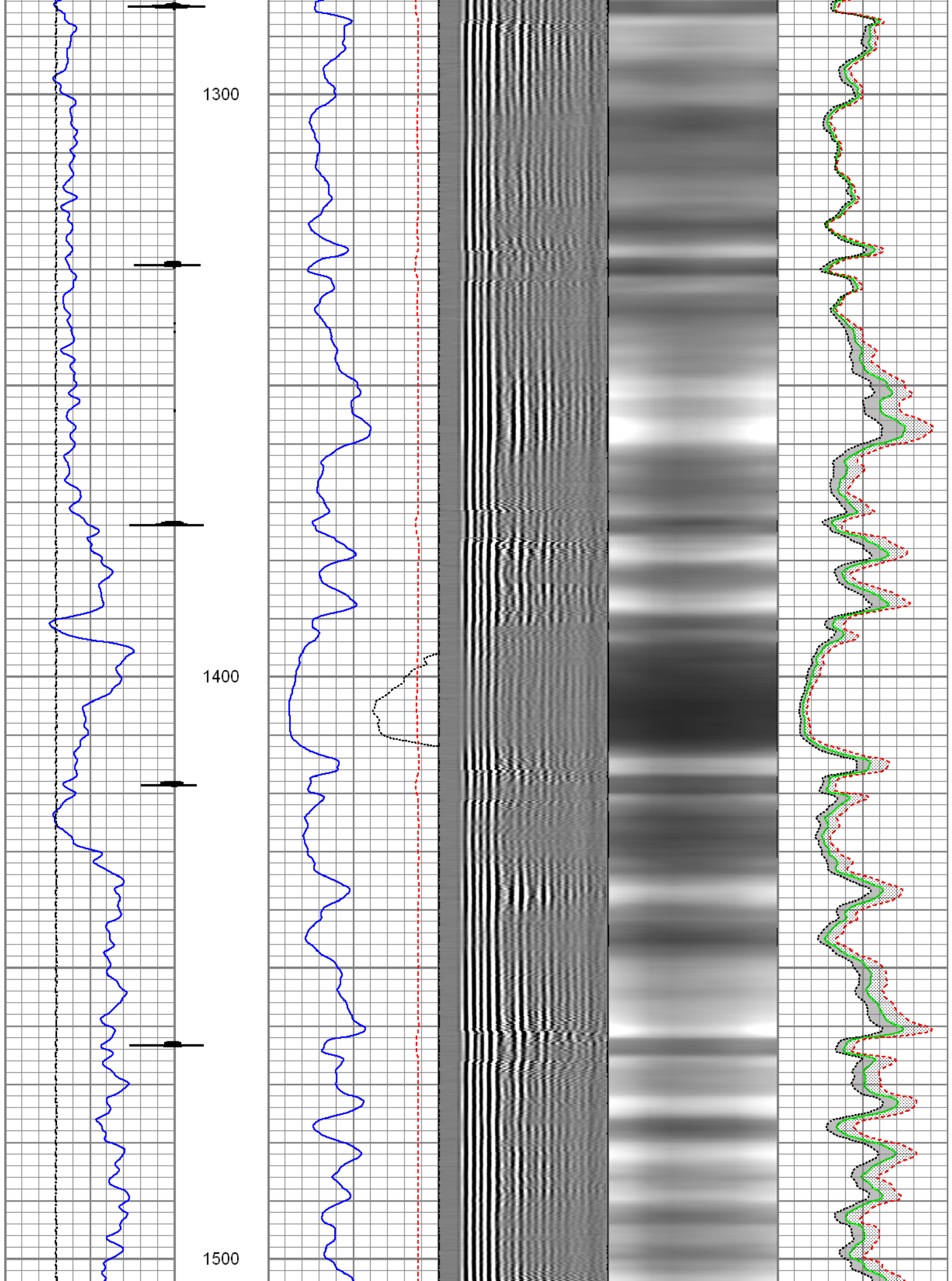


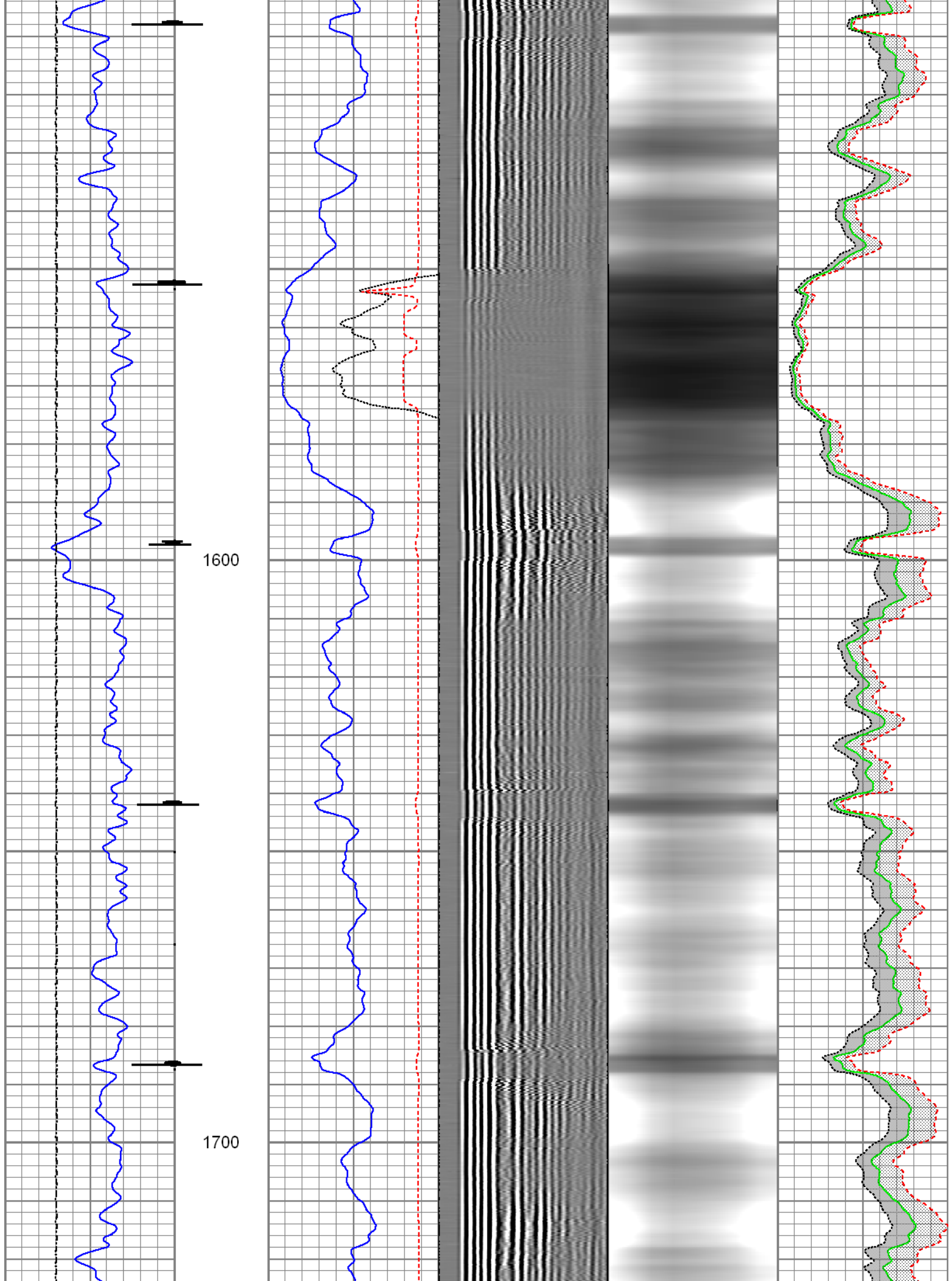
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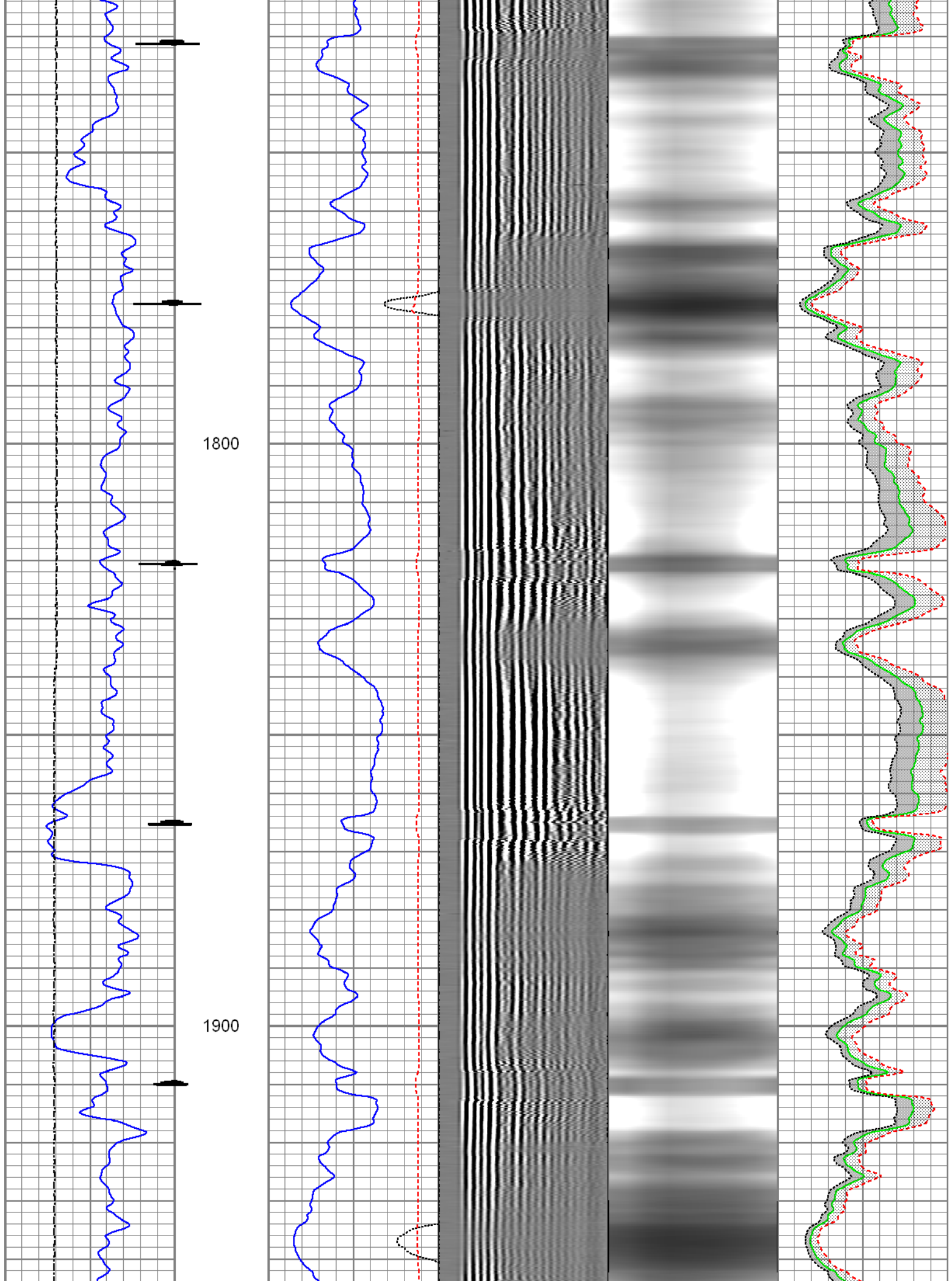
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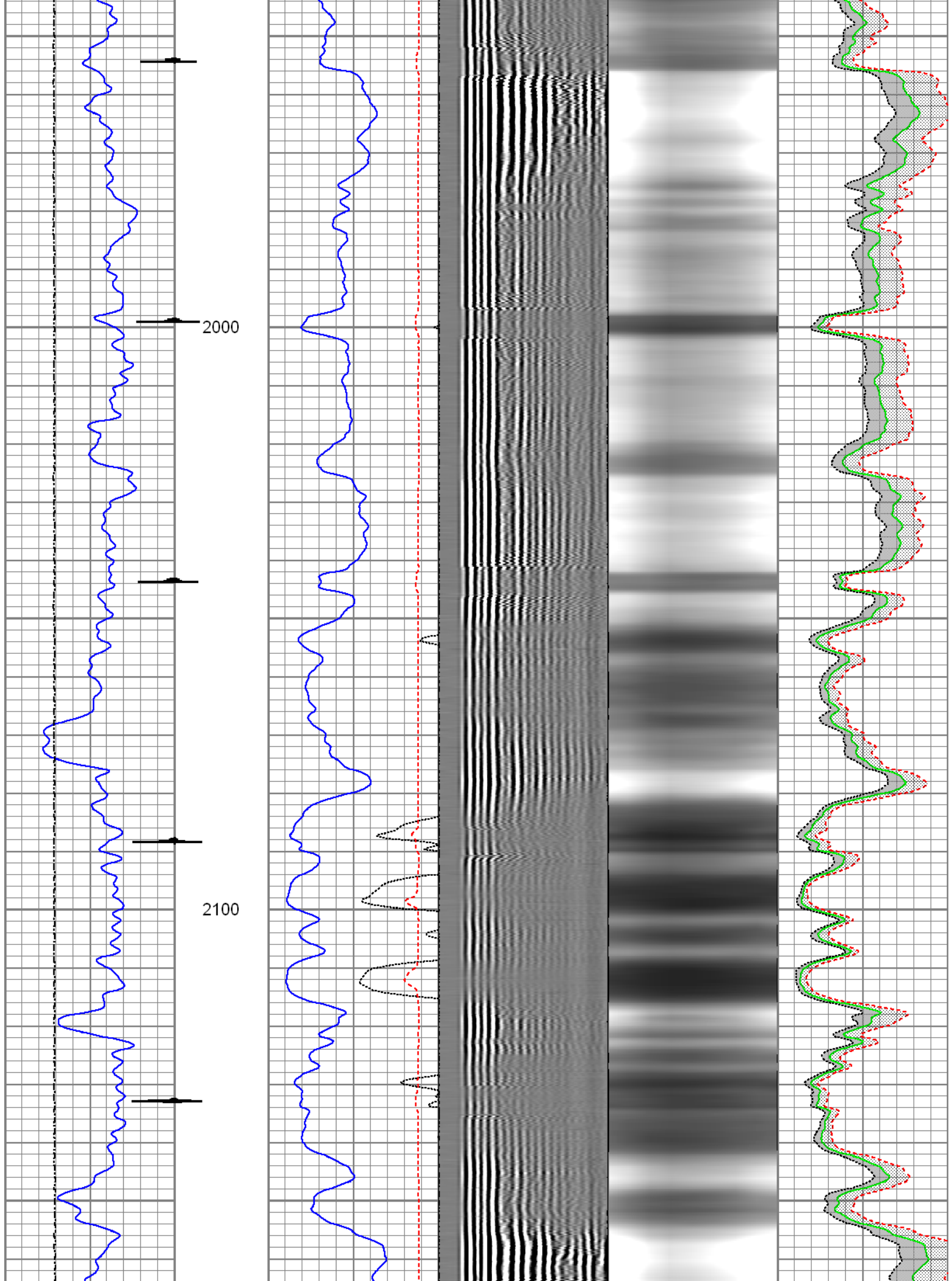


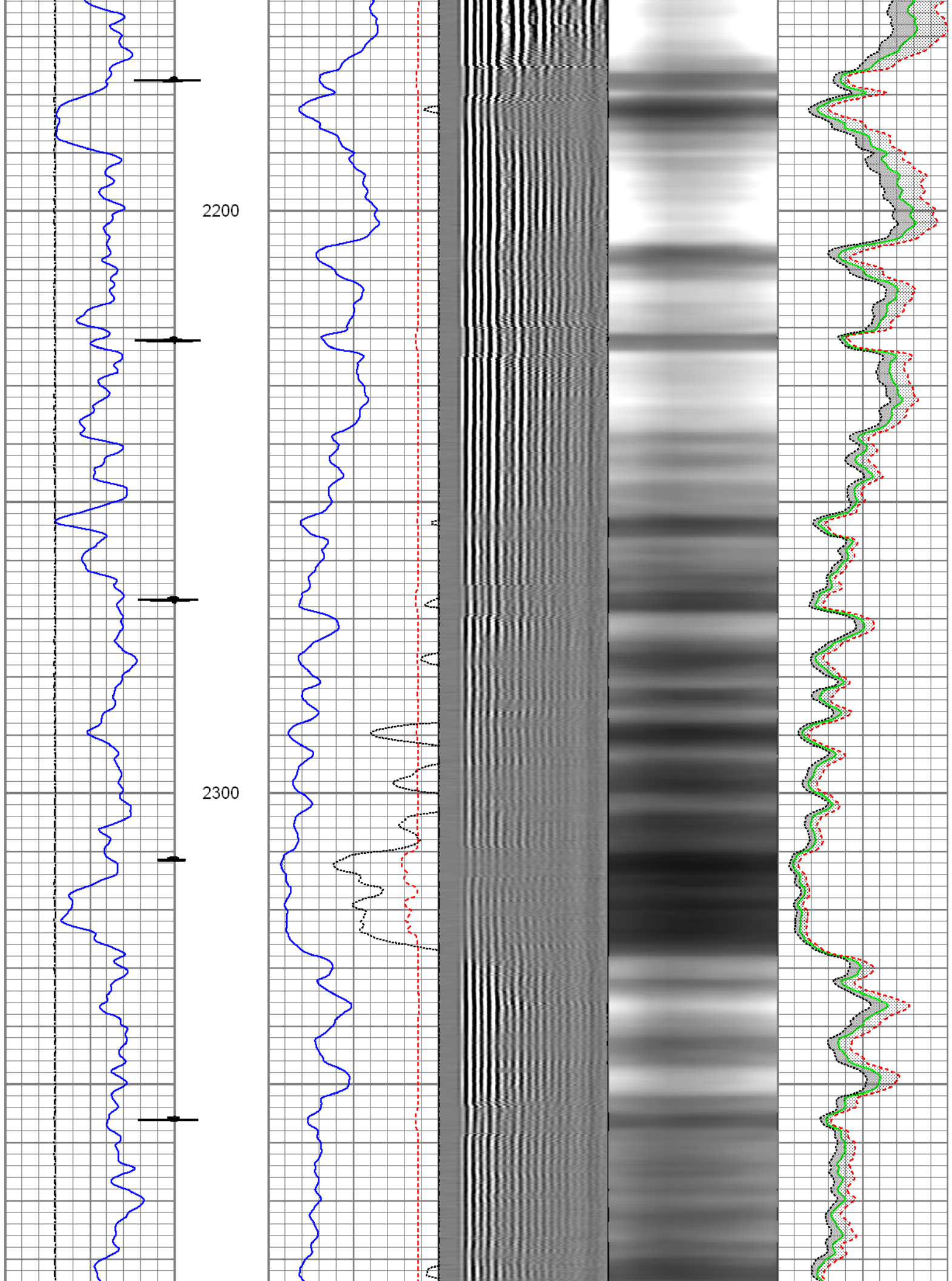


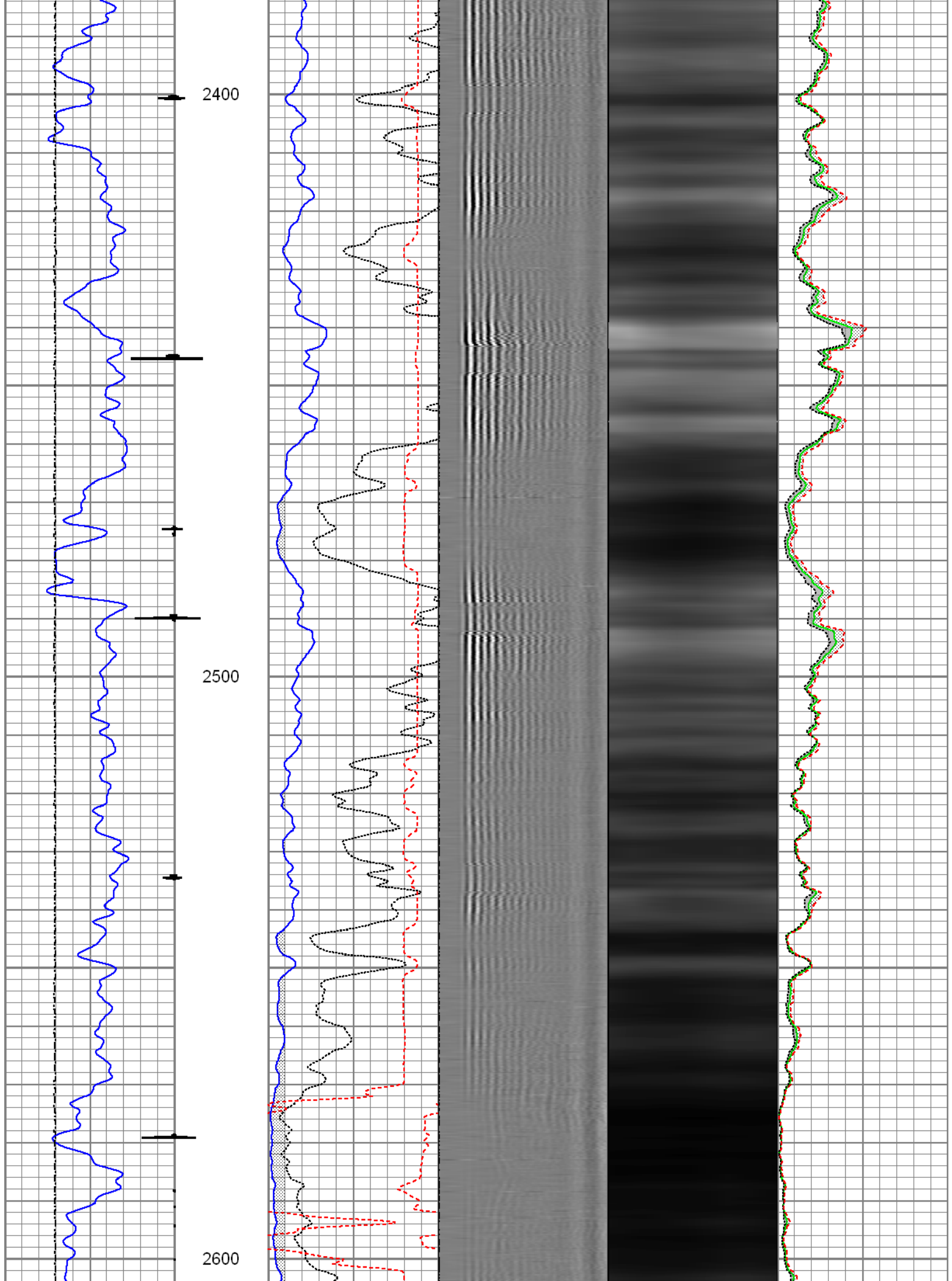


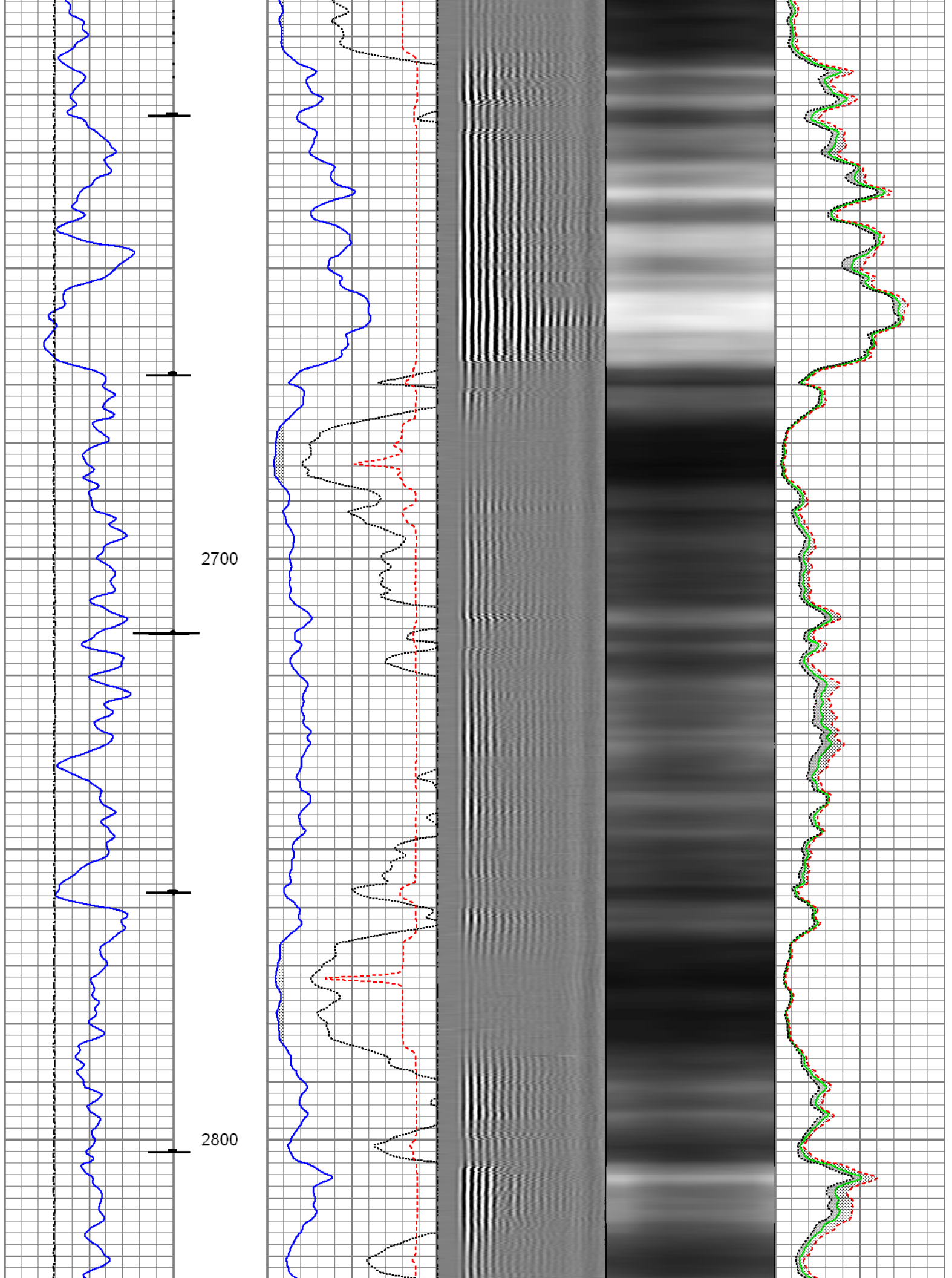


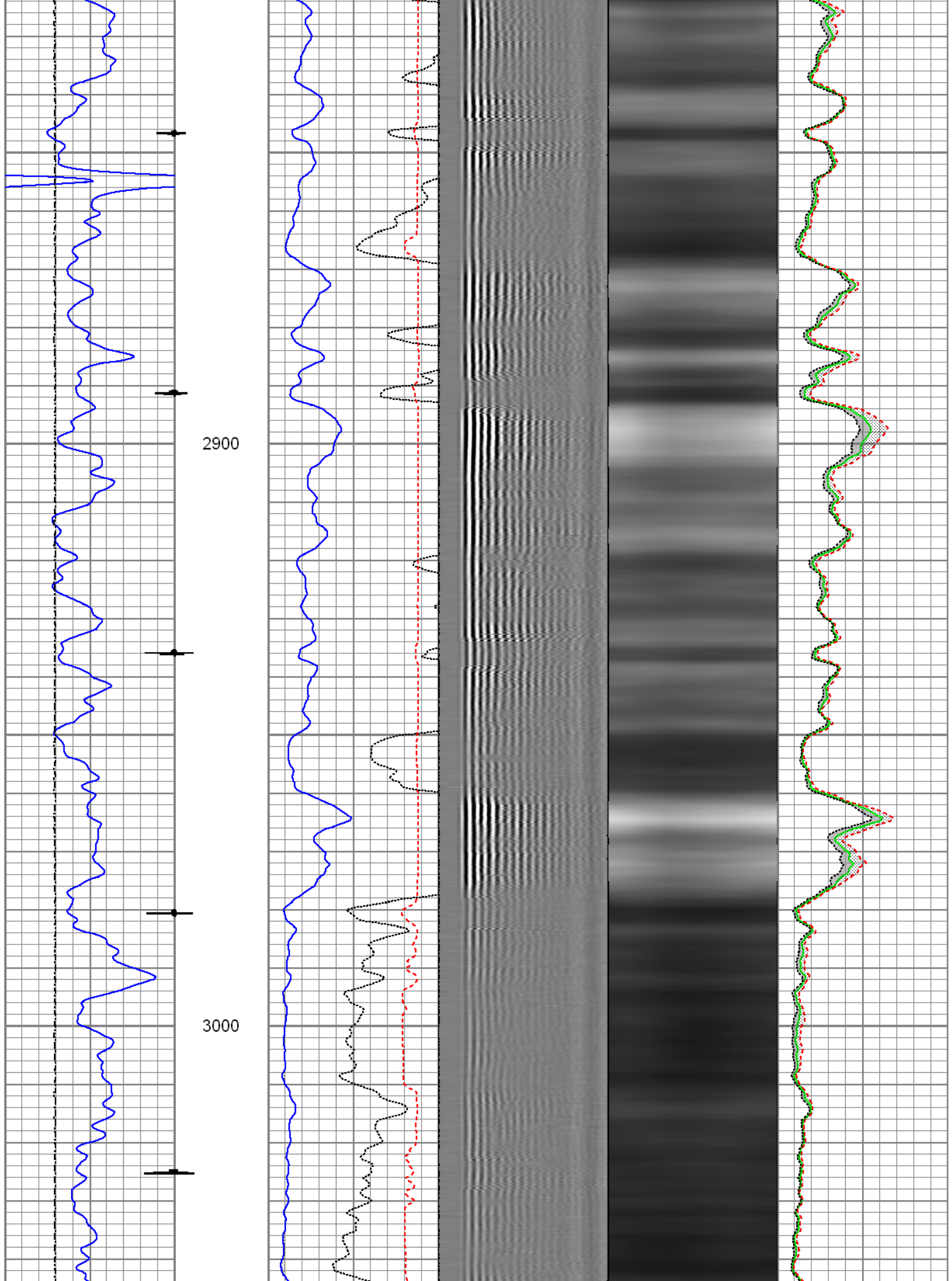


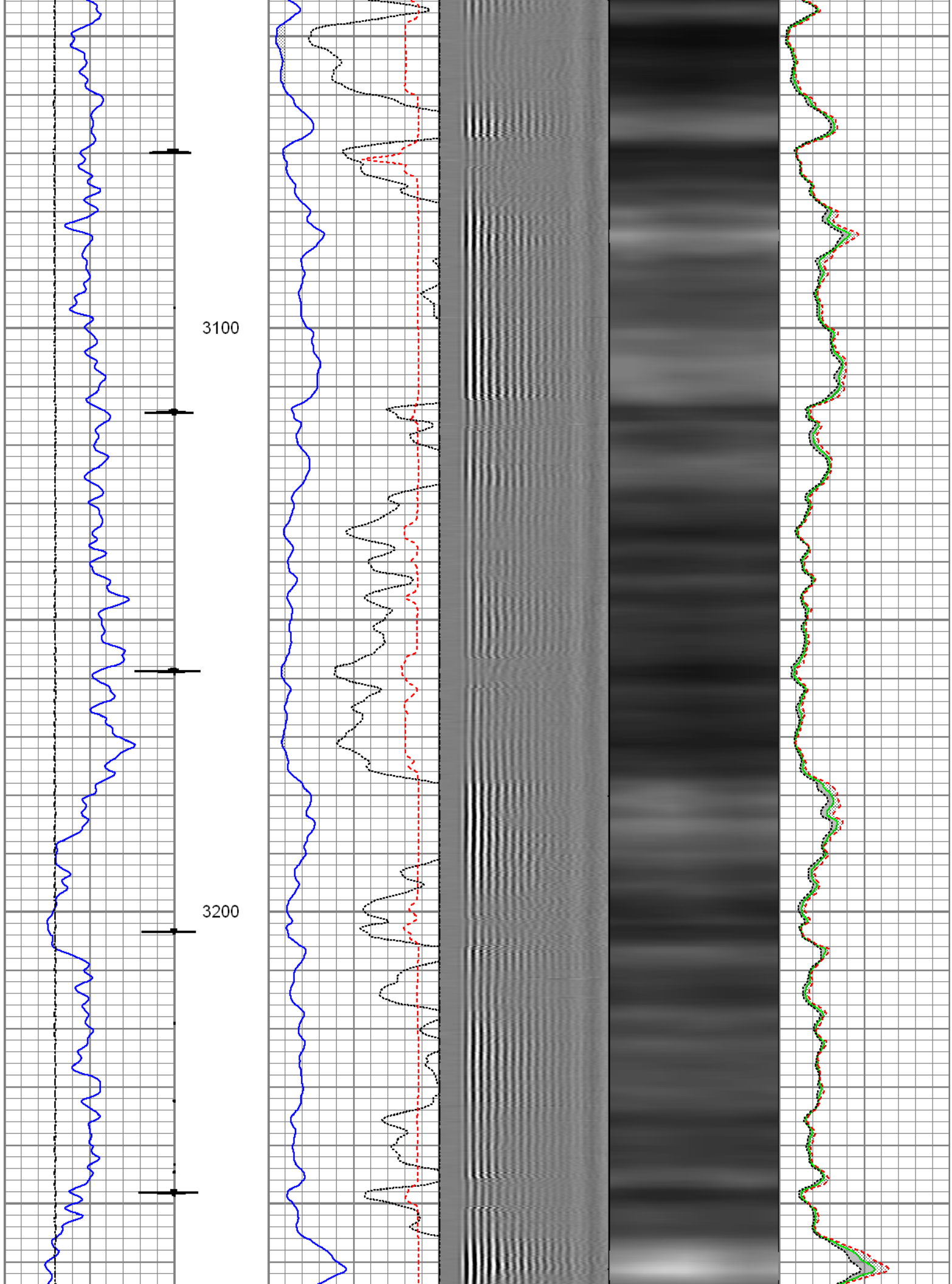


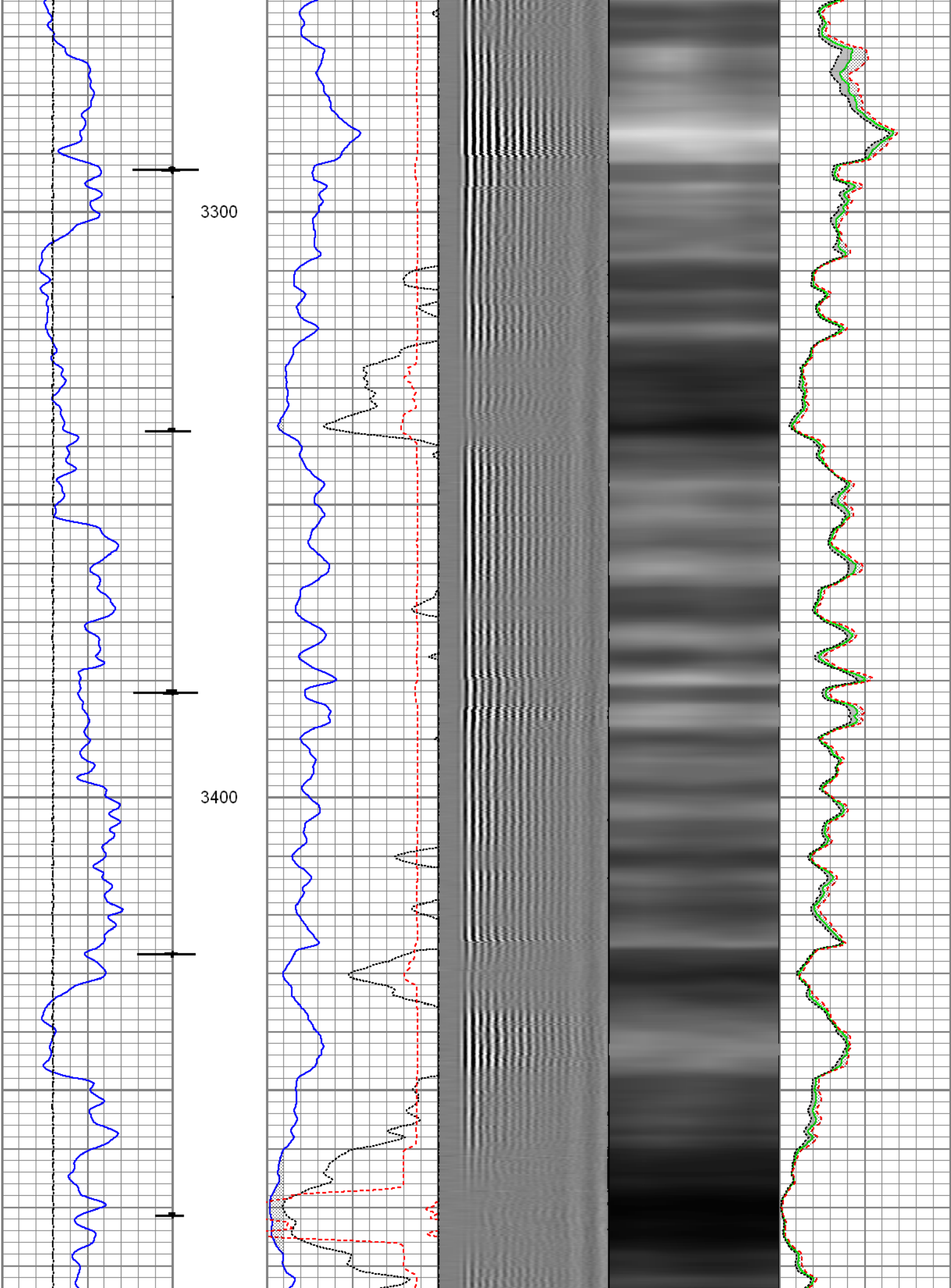








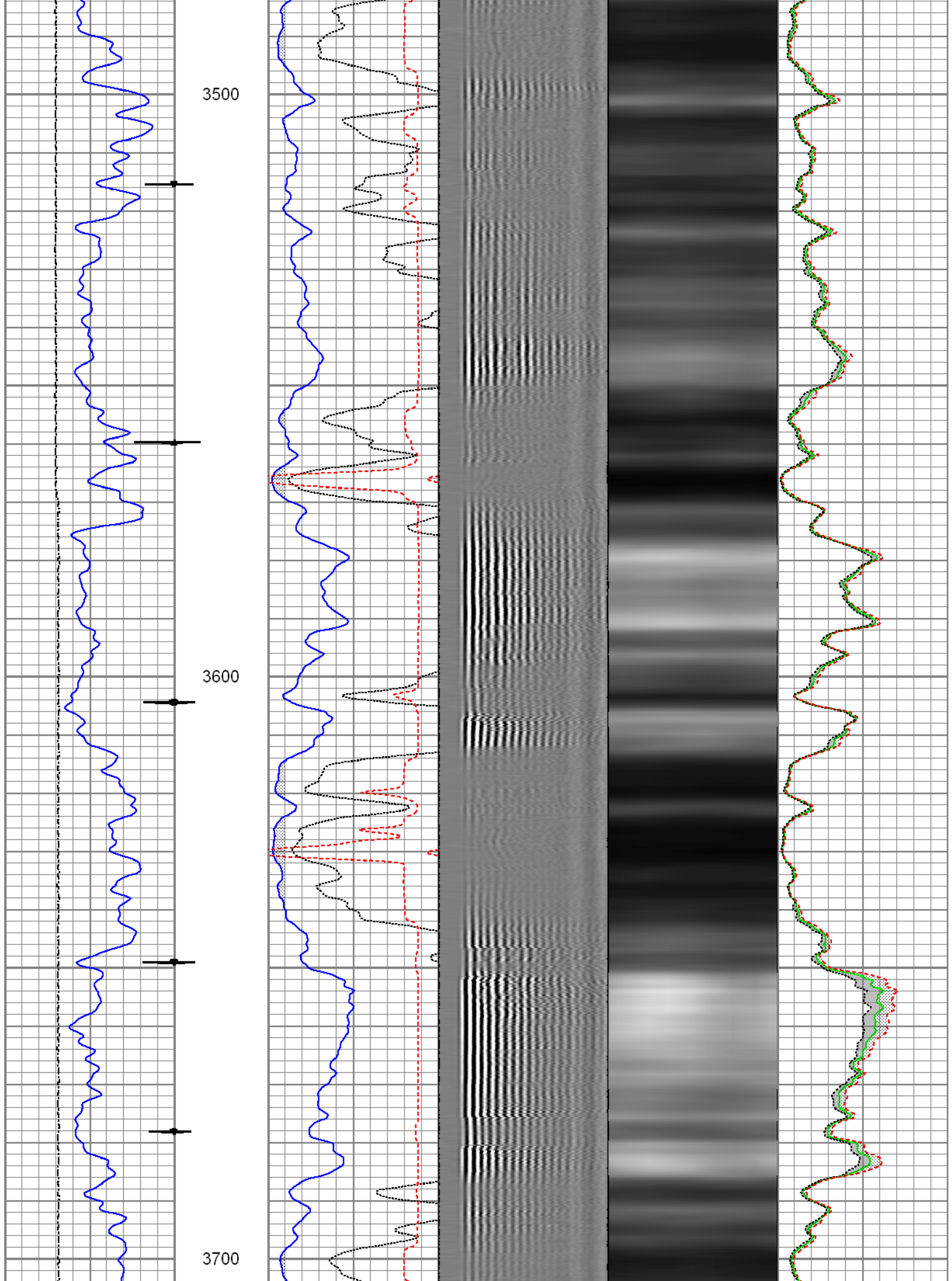


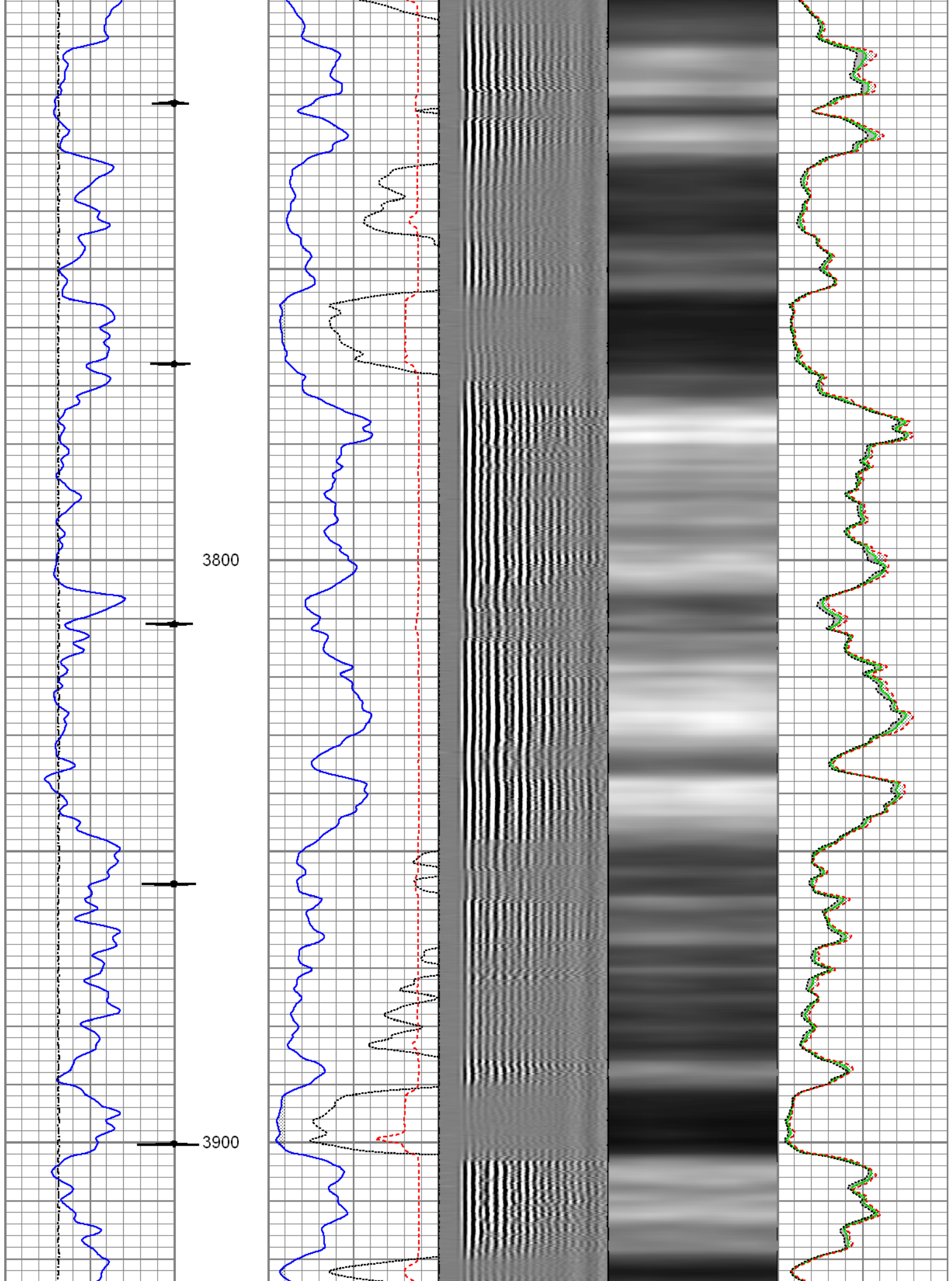


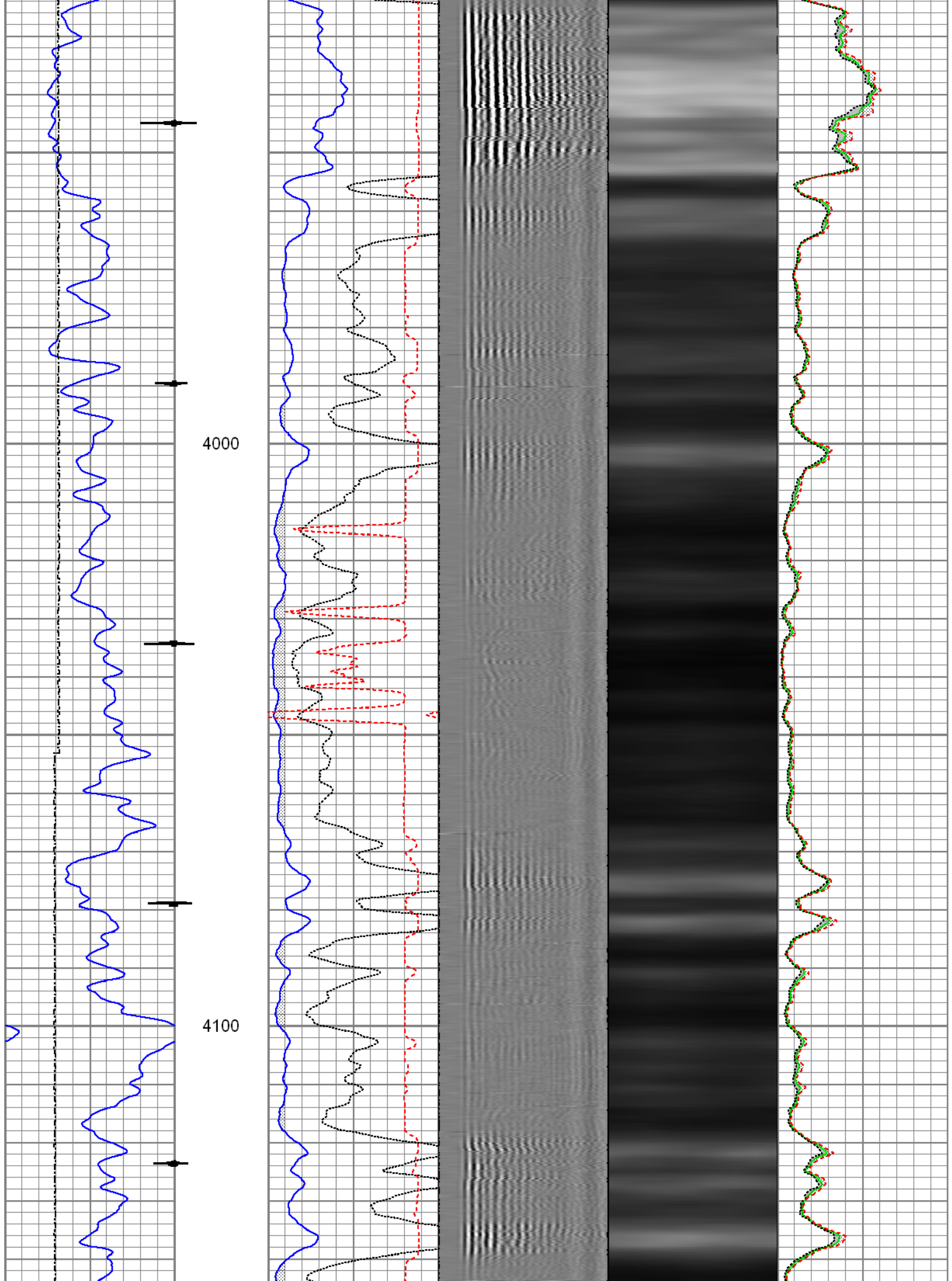
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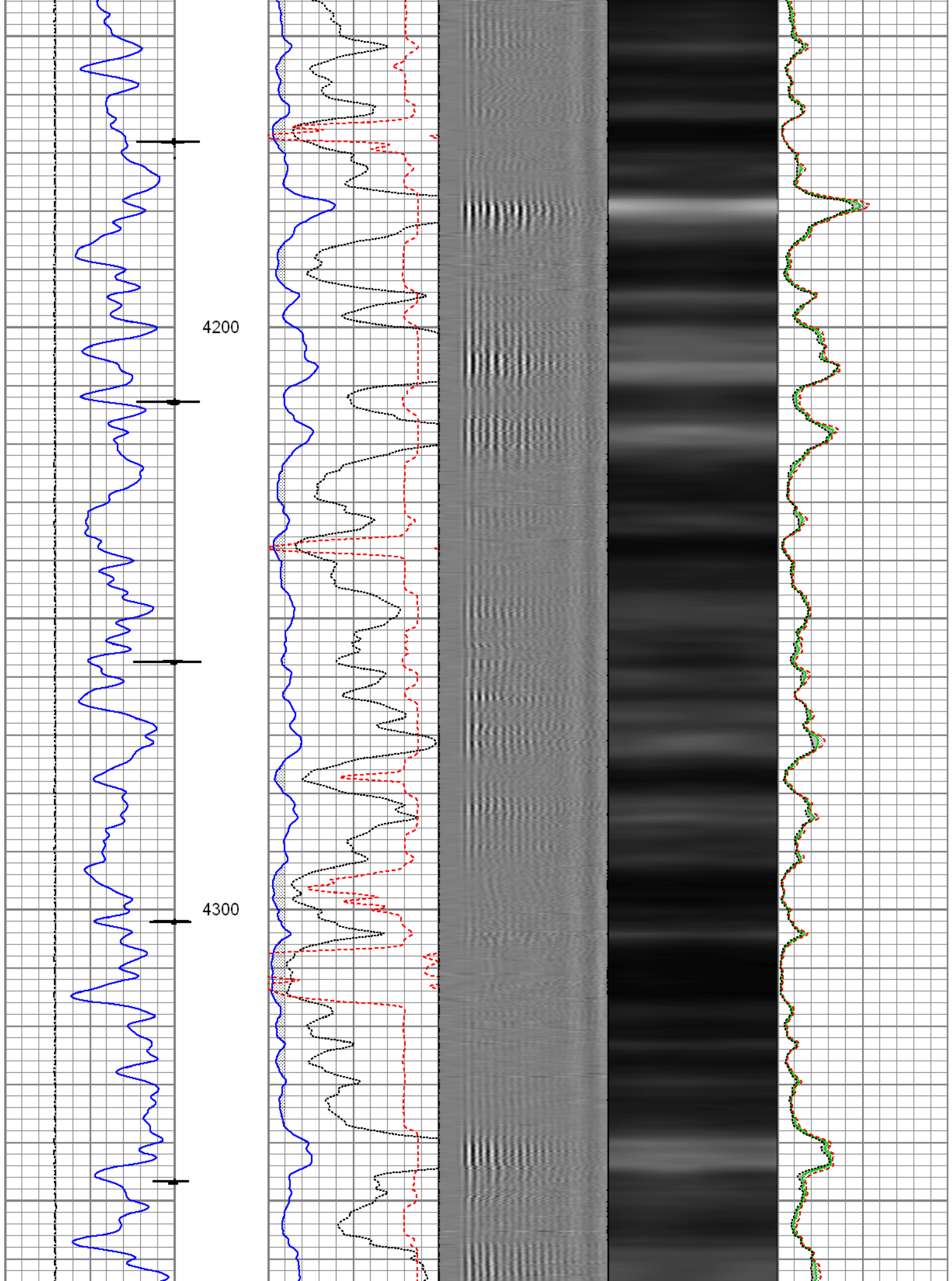
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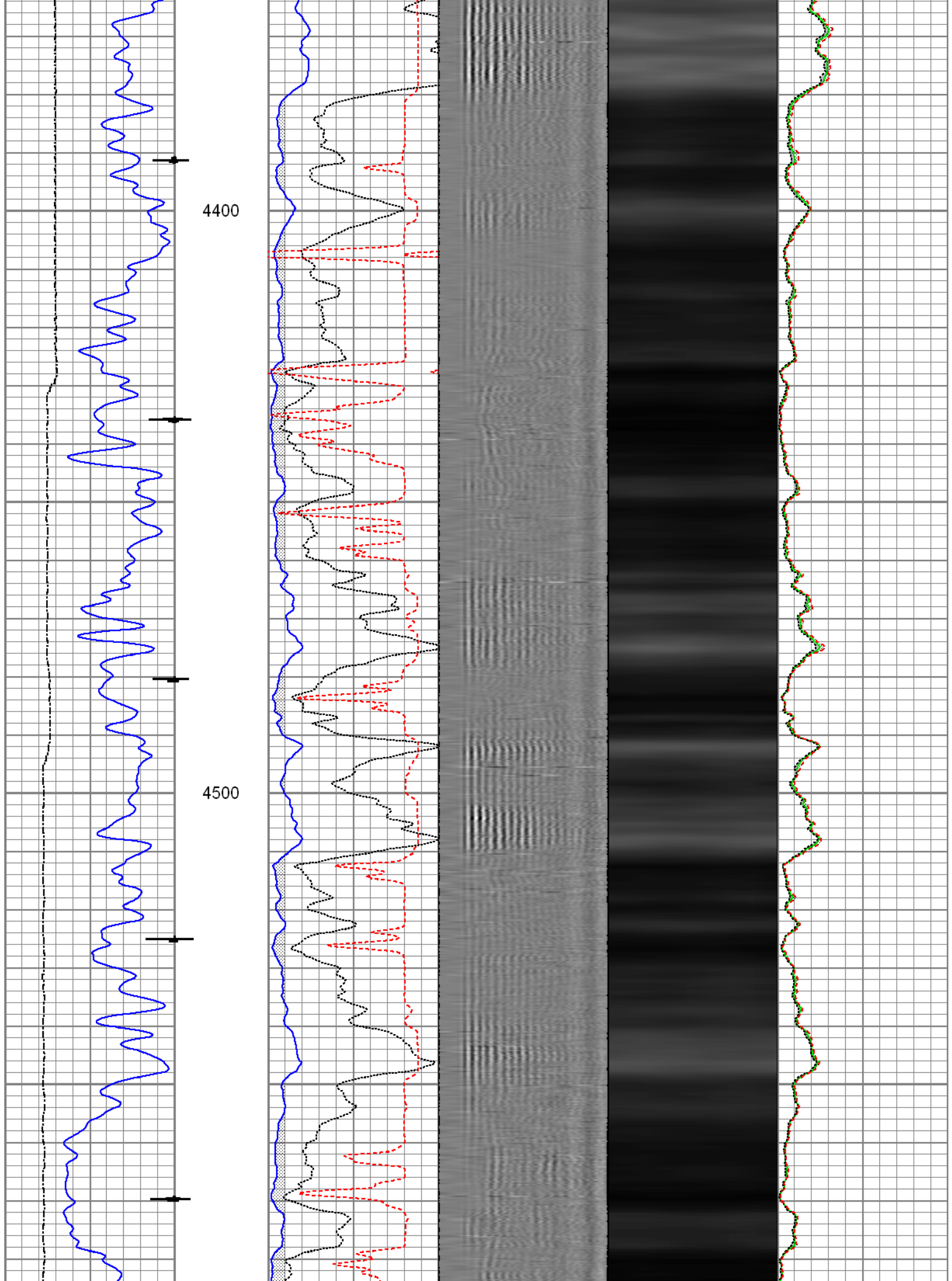
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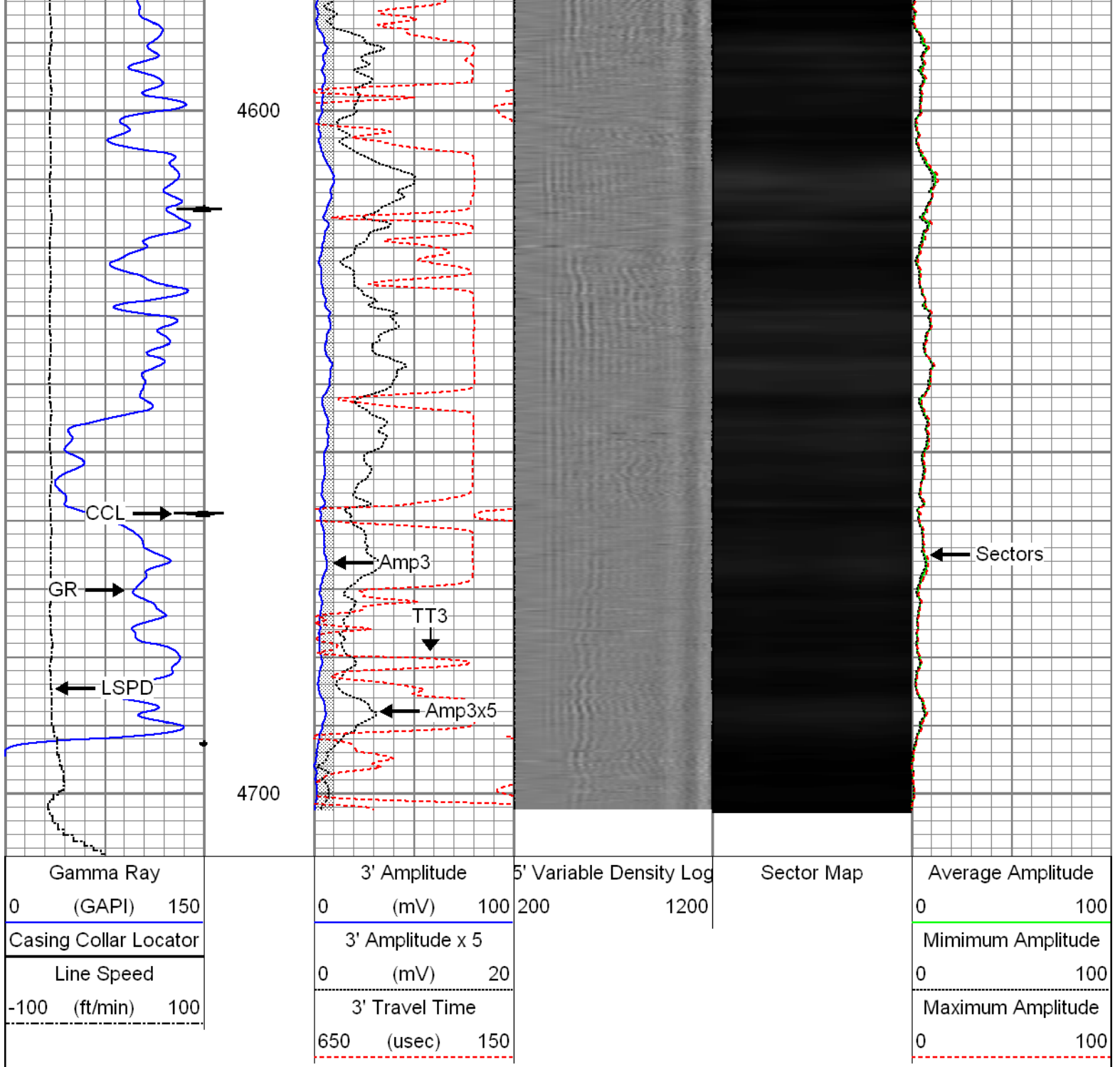








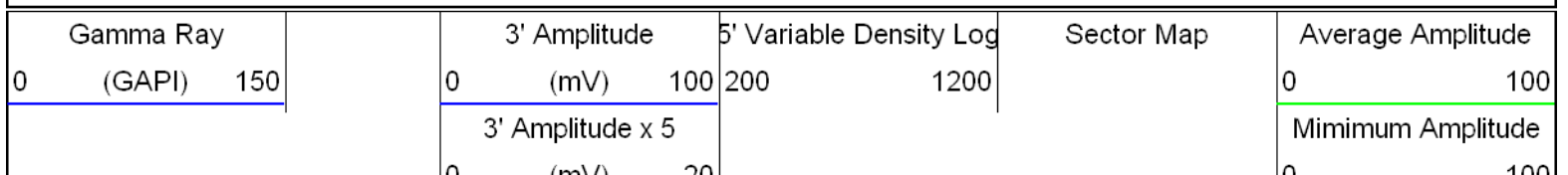




## Repeat Pass

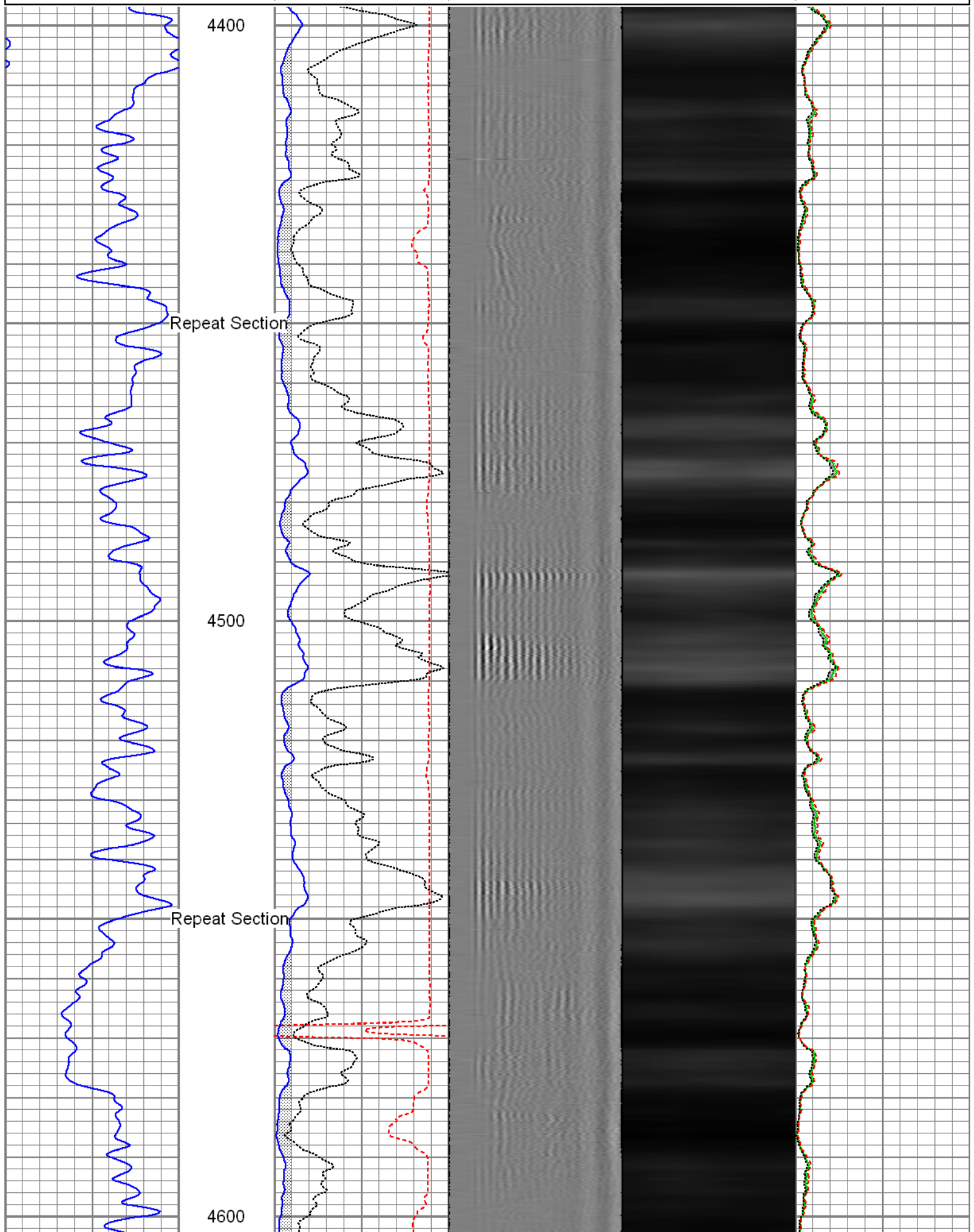
Recorded with -0- PSI surface induced pressure

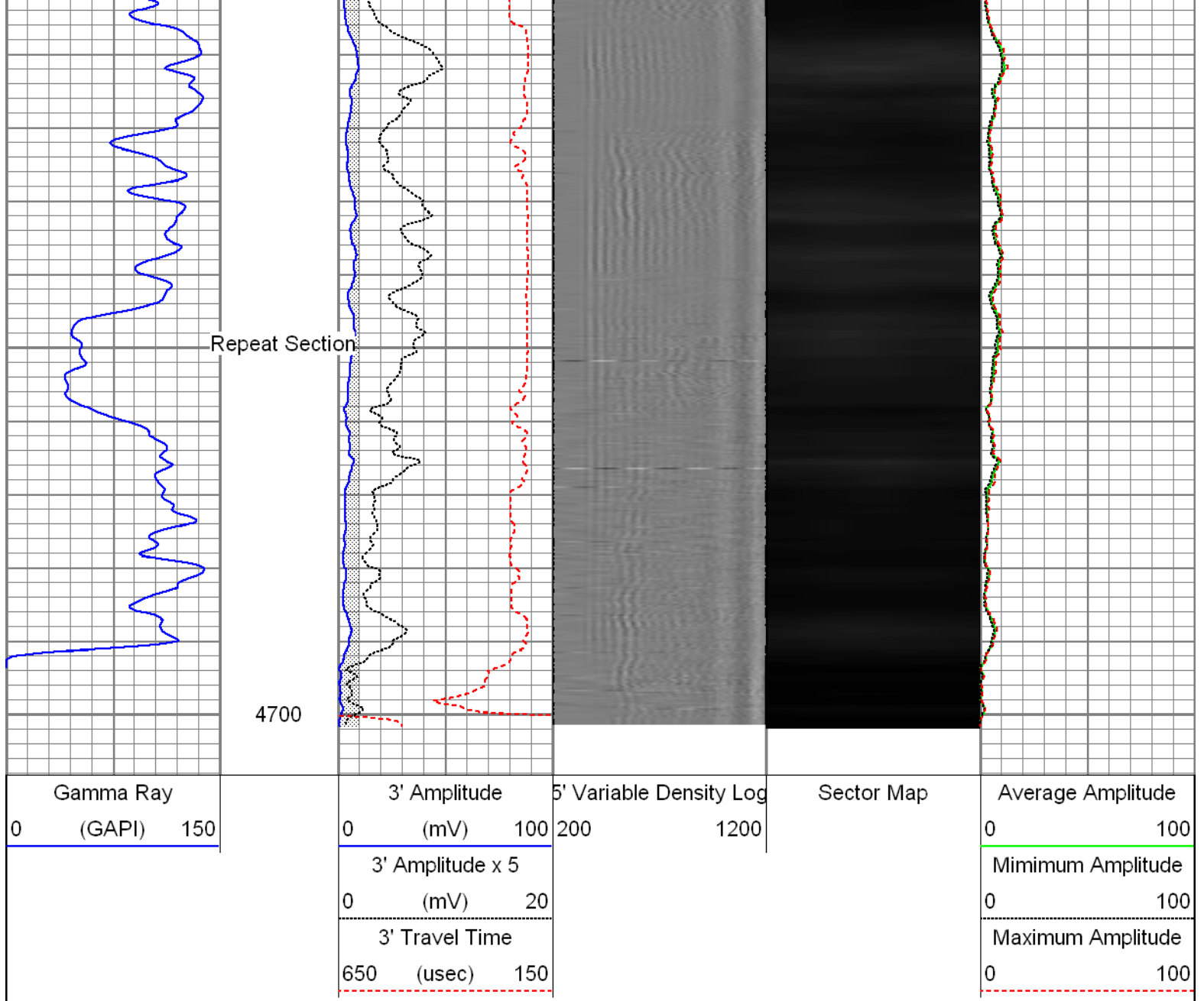
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 Dataset Pathname: rcblnd4.1  
 Presentation Format: rbt007  
 Dataset Creation: Wed Apr 29 13:12:35 2015 by Calc SCH 120430  
 Charted by: Depth in Feet scaled 1:240



0 (mV) 20  
3' Travel Time  
650 (usec) 150

0 100  
Maximum Amplitude  
0 100





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
Titan_Electric_C21.16Heads			T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
UW_AGS	20.13		UW_AGS-UW_AGS_001 (10017430) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW_XTU-UW_XTU_002 (10017430) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
GR	16.91		UW_PGR-UW_PGR_020 (10024555) Production Gamma Ray	1.93	1.69	9.50
CCL	15.38		UW_CCL-UW_CCL_028 (10024819) Ultrawire 3 1/8" Casing Collar Locator	1.61	3.13	15.00
DSS	14.80		DSS-2-3/4" (RAC.20.085SX)	2.55	2.75	

UW_RBT	12.25								
WF3FT	7.91								
WF5FT	6.91								
DSS	2.77								
UW_BUL	0.22								
TSTAMP	0.00								

Dataset: 04-28-15\_WPX\_Jolley KP 533-17\_RBL.db: field/well/run1/main1  
 Total Length: 21.16 ft  
 Total Weight: 177.20 lb  
 O.D.: 3.13 in

### Calibration Report

Database File: 04-28-15\_wpx\_jolley kp 533-17\_rbl.db  
 Dataset Pathname: main1.3  
 Dataset Creation: Wed Apr 29 13:03:29 2015 by Calc SCH 120430

### Segmented Cement Bond Log Calibration Report

Serial Number: 10012639  
 Tool Model: UW\_RBT\_004  
 Calibration Casing Diameter: 4.500 in  
 Calibration Depth: 557.967 ft

Master Calibration, performed Tue Apr 28 13:40:24 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.001	1.058	0.700	81.200	75.980	0.793
5FT	0.000	0.005	0.700	81.200	87.015	0.017

SF1	-0.003	0.825	0.700	81.200	97.315	0.947
S1	-0.001	0.983	0.000	100.000	101.635	0.129
S2	-0.004	0.950	0.000	100.000	104.836	0.408
S3	-0.003	0.994	0.000	100.000	100.384	0.268
S4	-0.004	1.058	0.000	100.000	94.135	0.360
S5	-0.002	1.124	0.000	100.000	88.885	0.133
S6	-0.003	1.172	0.000	100.000	85.153	0.223
S7	-0.003	1.127	0.000	100.000	88.495	0.298
S8	-0.002	1.031	0.000	100.000	96.814	0.208

Gamma Ray Calibration Report

Serial Number:	10024555		
Tool Model:	UW_PGR_020		
Performed:	Sun Jun 13 13:33:21 1993		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	1.0000	GAPI/cps	



Company	WPX Energy Rocky Mountain LLC
Well	Jolley KP 533-17
Field	Kokopelli
County	Garfield
State	Colorado