



# CEMENT BOND LOG GR/CCL LOG

Company GREAT WESTERN OIL AND GAS COMPANY		Country USA	
Well	MARCUS LD 11-371HNX		
Field			
County	WELD		
State	COLORADO		
Company GREAT WESTERN OIL AND GAS COMPANY		Country USA	
Well MARCUS LD 11-371HNX			
Field			
County WELD			
State COLORADO			
Location:		API # : 05-123-45383	
SEC 34 TWP 1N RGE 67W		Other Services 4.60" GAUGE TO 8,582'	
Permanent Datum	GL	Elevation	5,042'
Log Measured From	KB		
Drilling Measured From	KELLY BUSHING		
Date	5JAN2018		
Run Number	TWO		
Depth Driller	17,598'		
Depth Logger	8,625'		
Bottom Logged Interval	8,621'		
Top Log Interval	SURFACE		
Open Hole Size	N/A		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	SURFACE		
Time Well Ready	12.10		
Time Logger on Bottom	12.45		
Equipment Number	41		
location	PLATTEVILLE		
Recorded By	J. OSTLER		
Witnessed By	D. POZAS		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
		From	To
Casing Record	Size	Wgt/Ft	Top
Surface String	9.625"	36#	0'
Prod. String			
Production String	5.5"	17#	0'
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

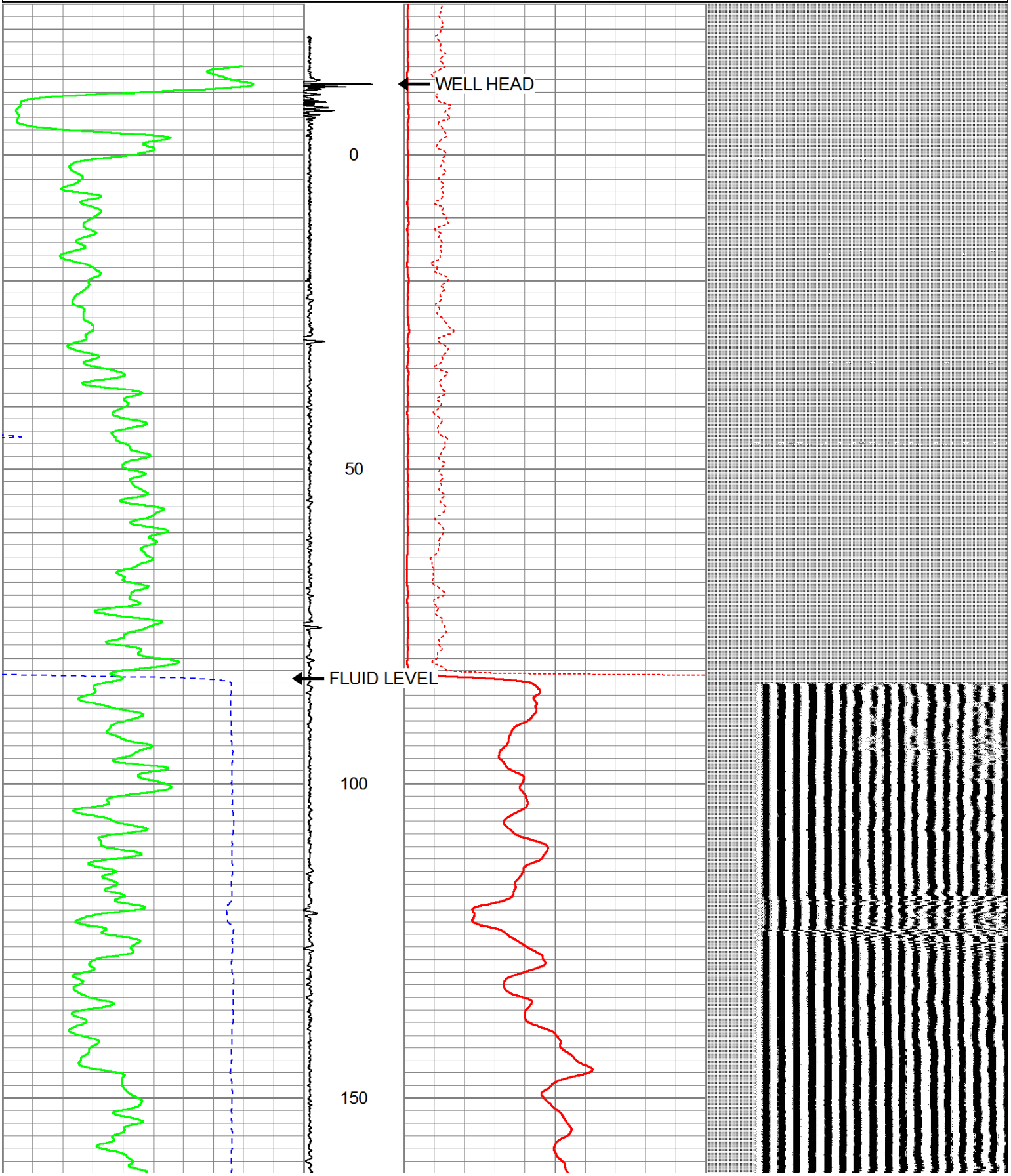
WELL WAS LOGGED WITH ZERO PSI AT THE WELL HEAD  
LOG WAS SHIFTED UP - 24' TO MATCH A CASING TALLY MARKER JOINT AT 8,030'

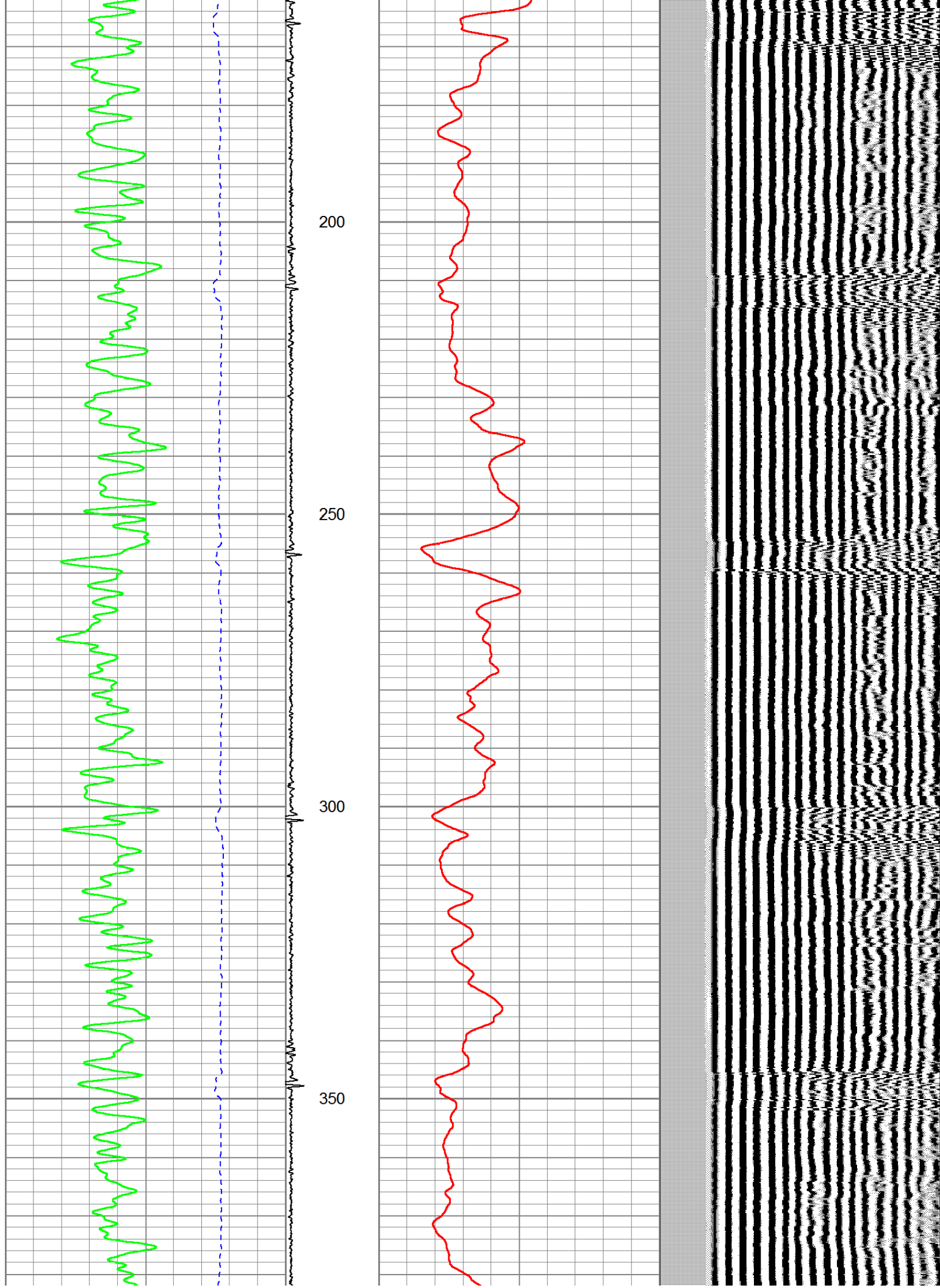


# MAIN PASS

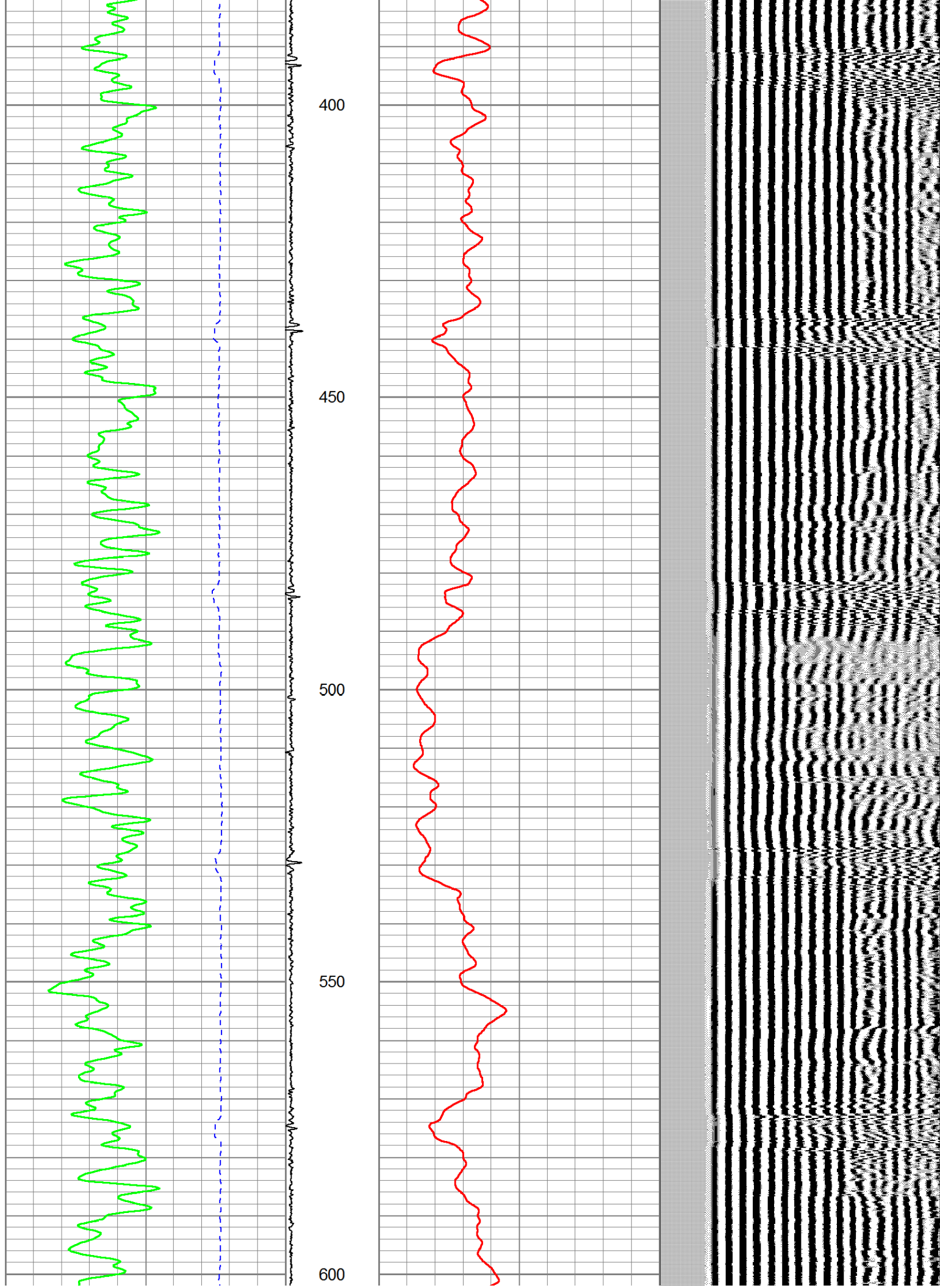
Database File: gw\_marcus\_id\_11-371hnx\_cbl\_5jan2018.db  
Dataset Pathname: pass7  
Presentation Format: cbl10-11  
Dataset Creation: Fri Jan 05 12:46:41 2018 by Log Std Casedhole 10081  
Charted by: Depth in Feet scaled 1:240

400	Travel Time (usec)	200	Collar Locator	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	-1	15	Amplitude (mV)	100			

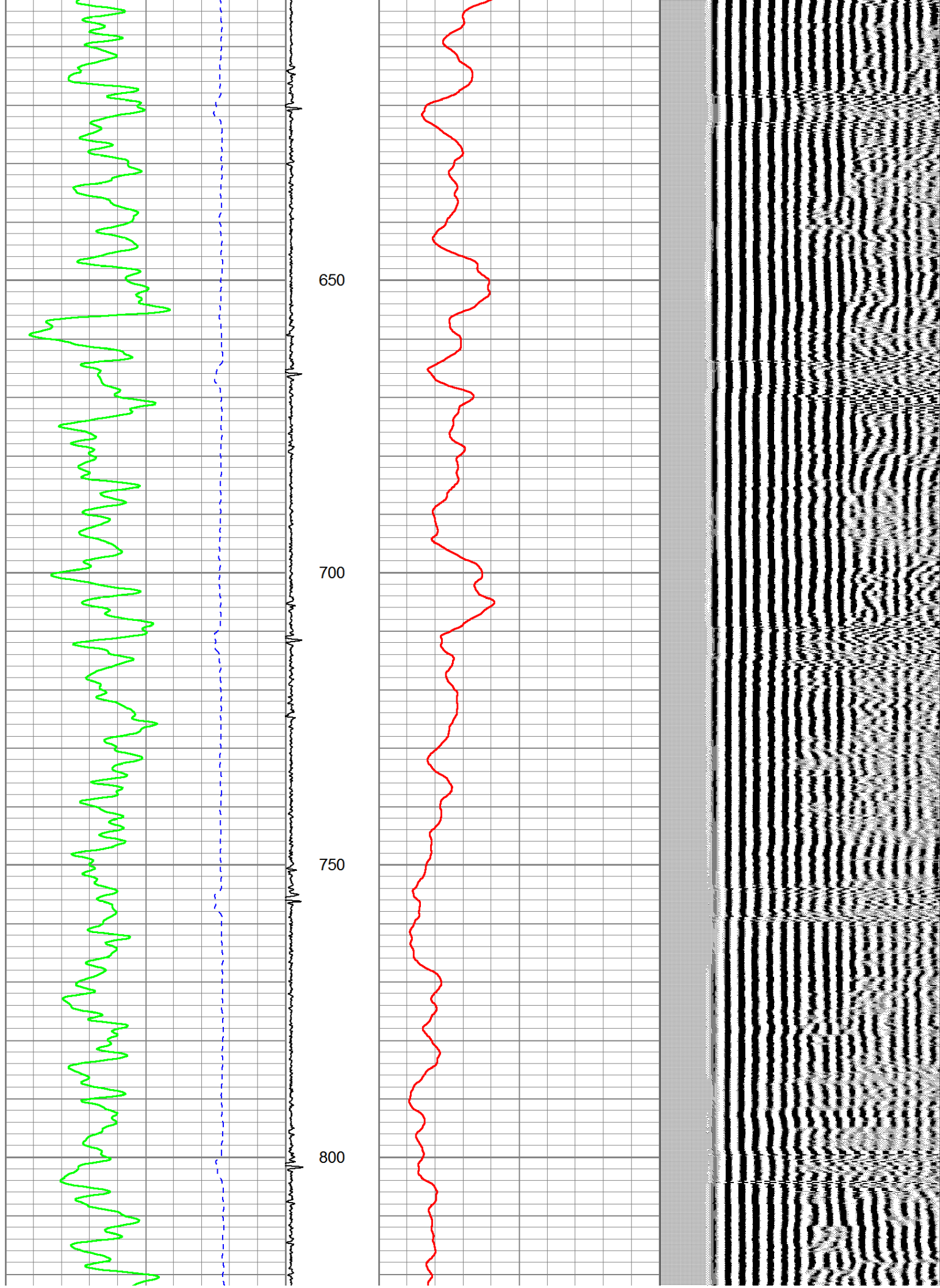


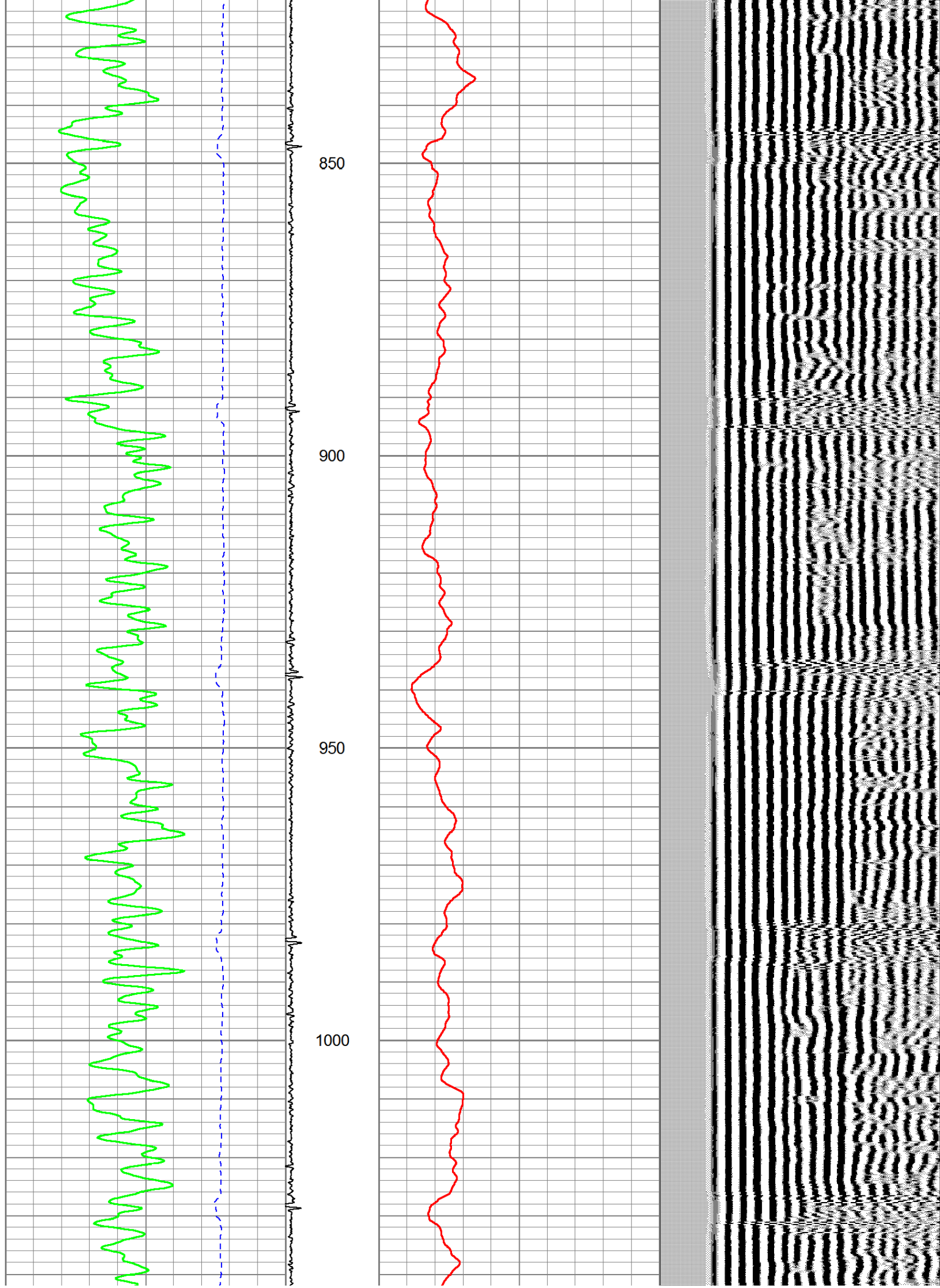




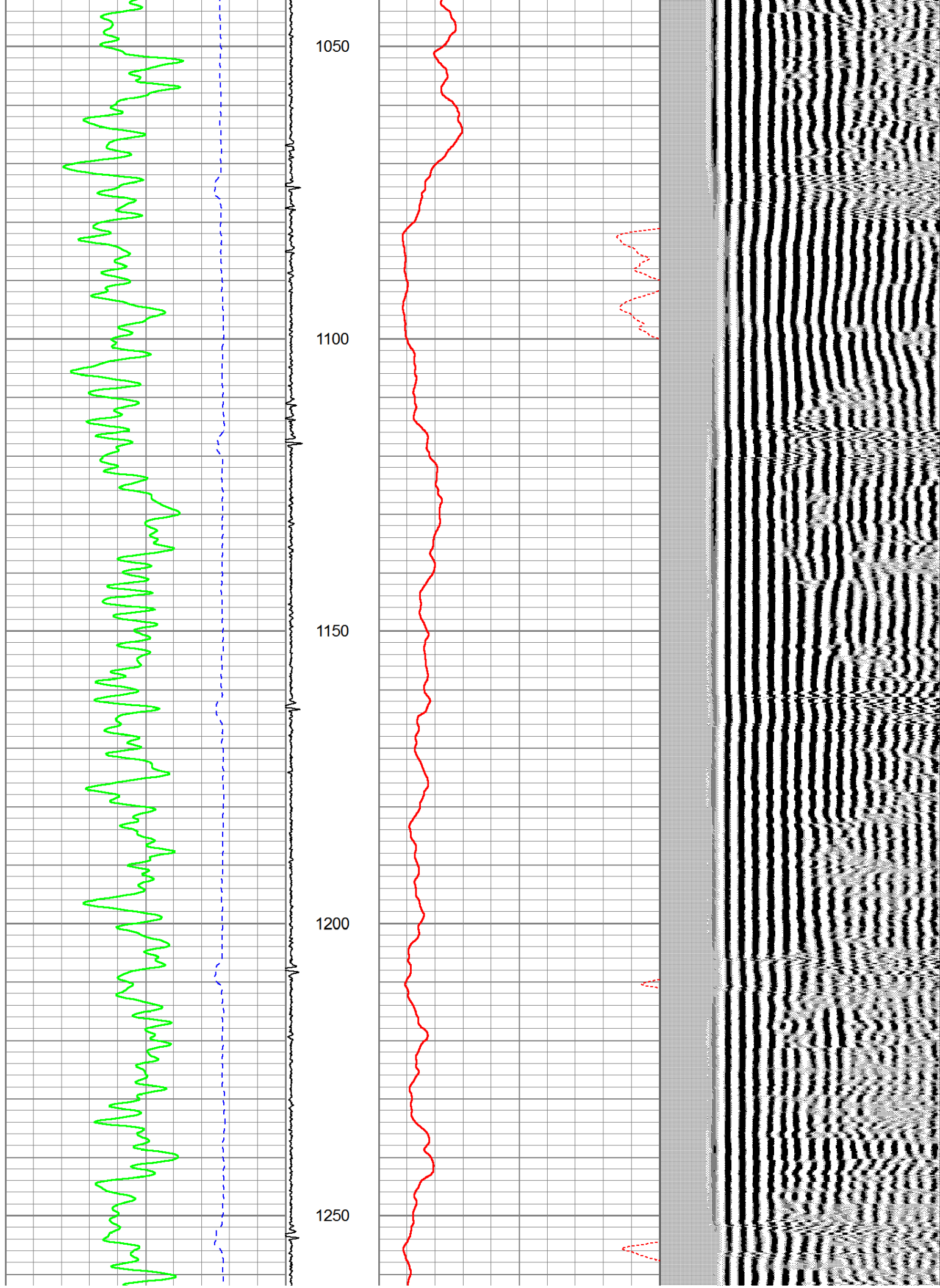




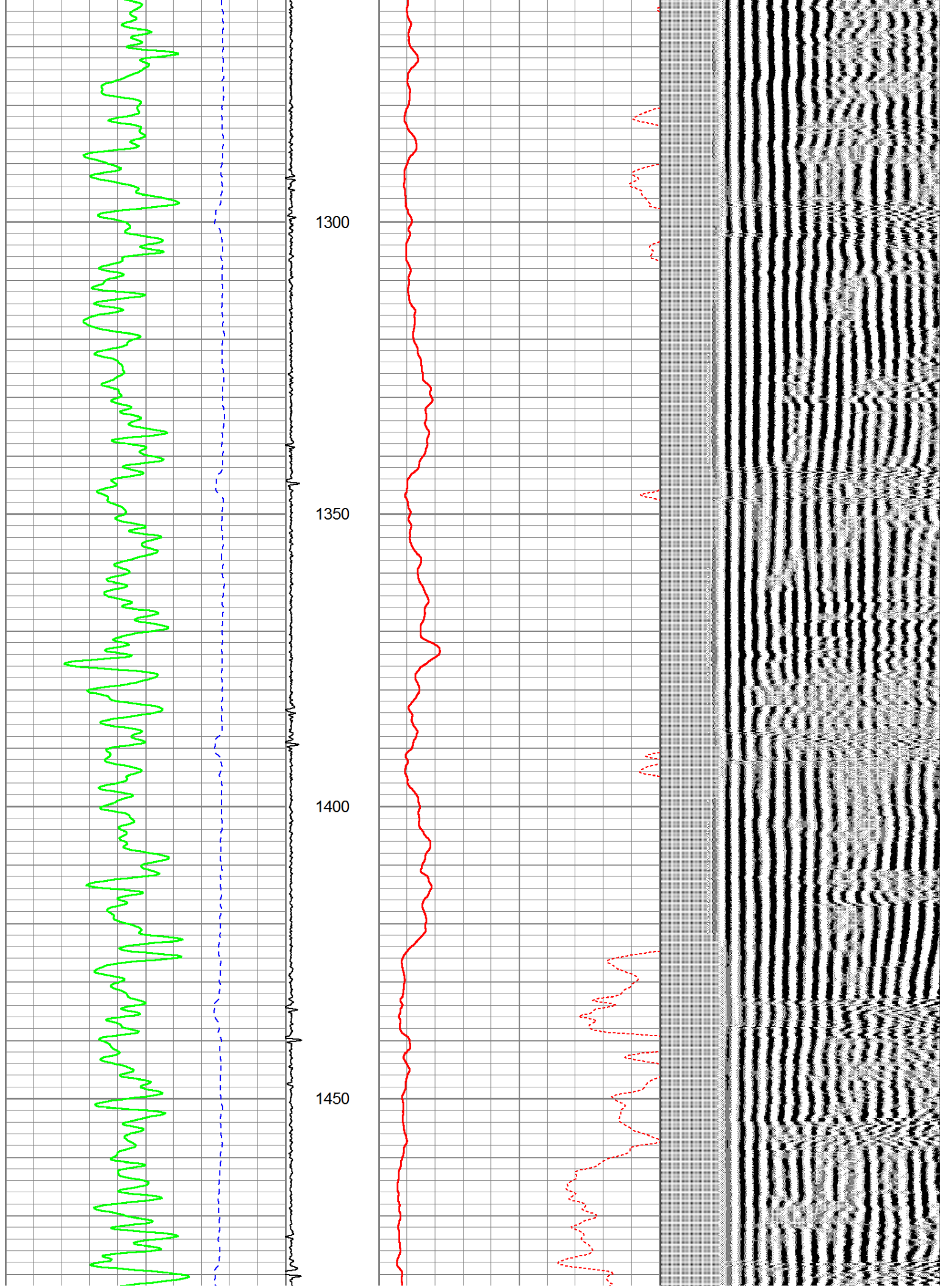


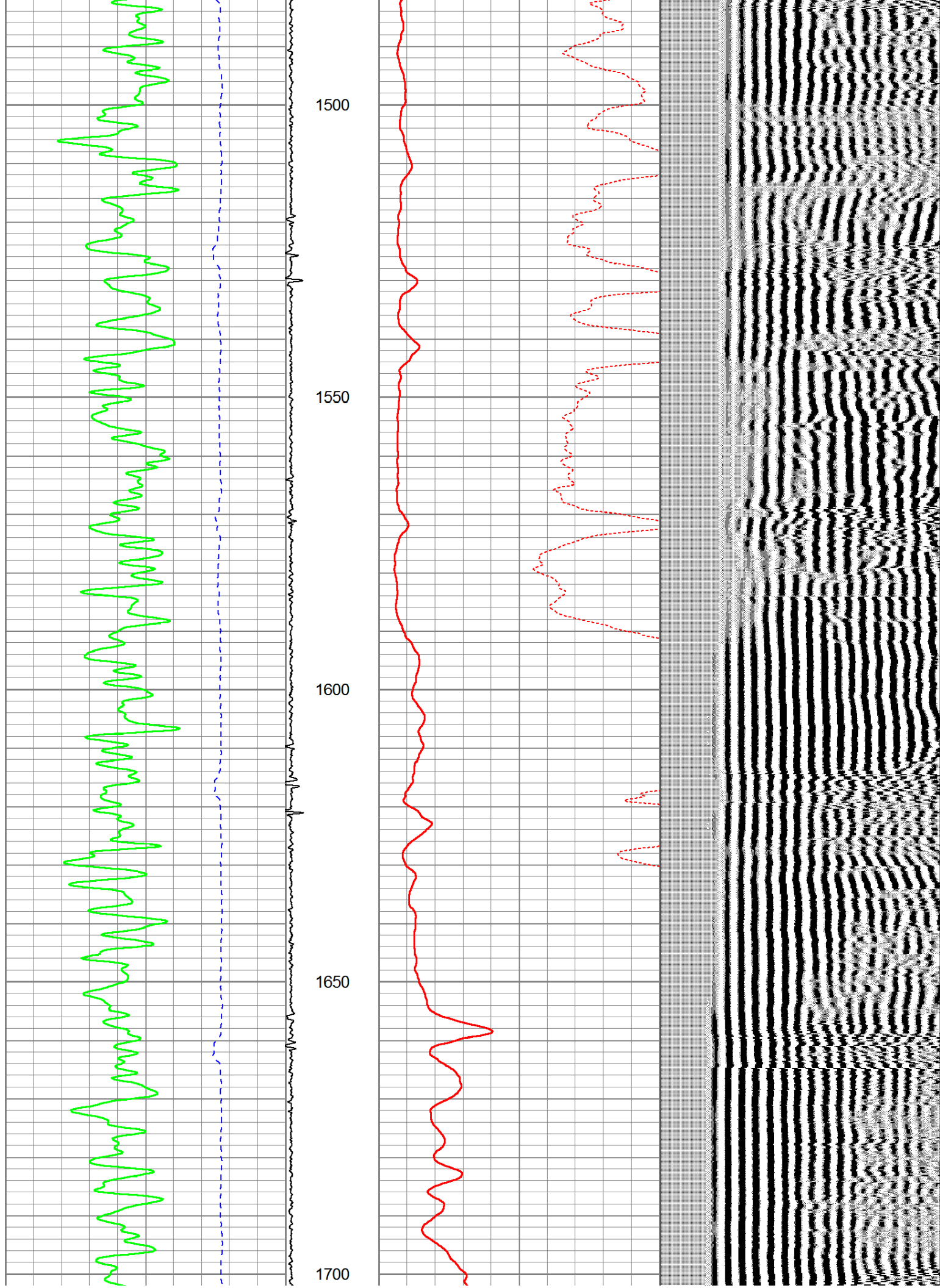




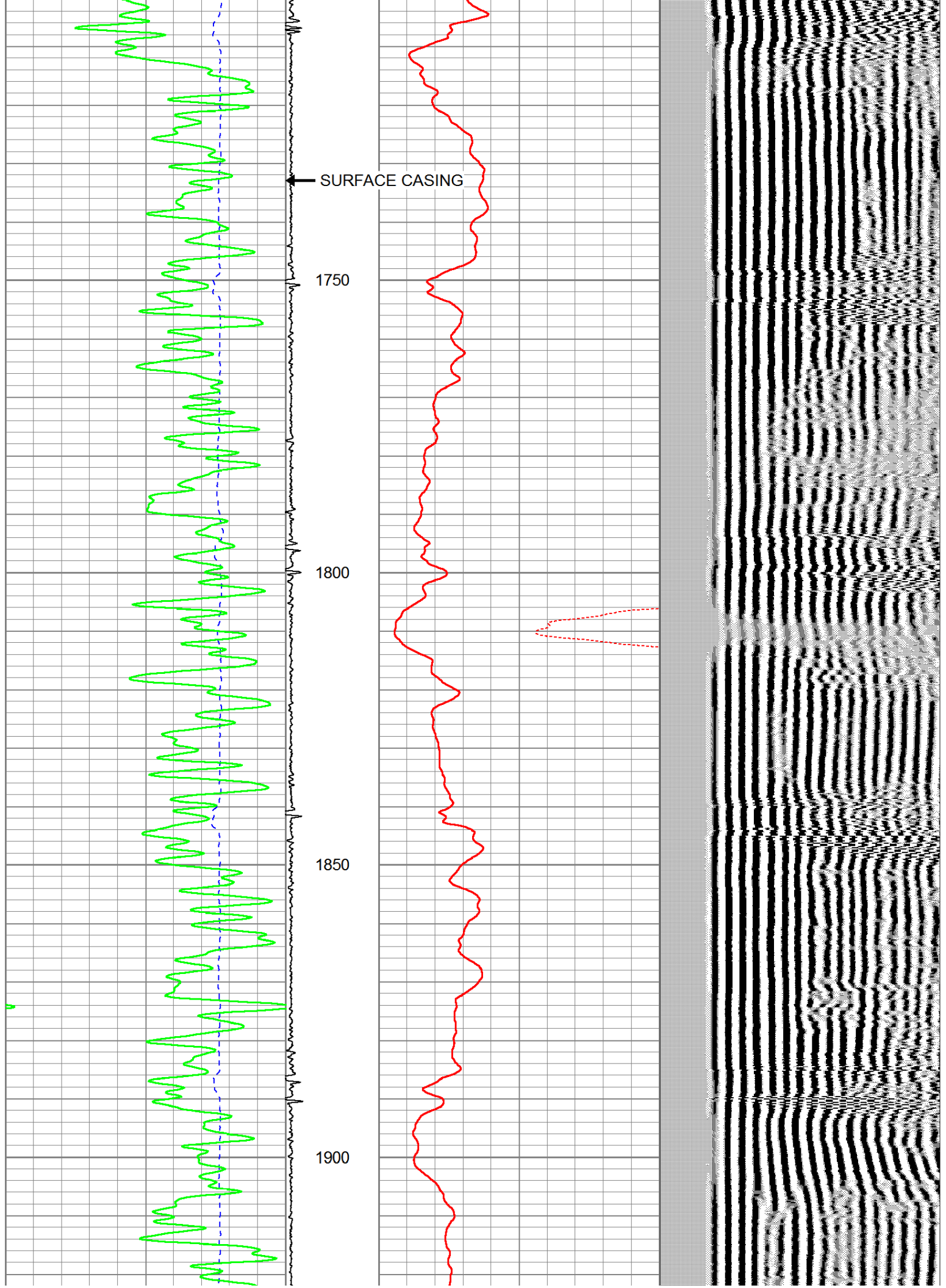




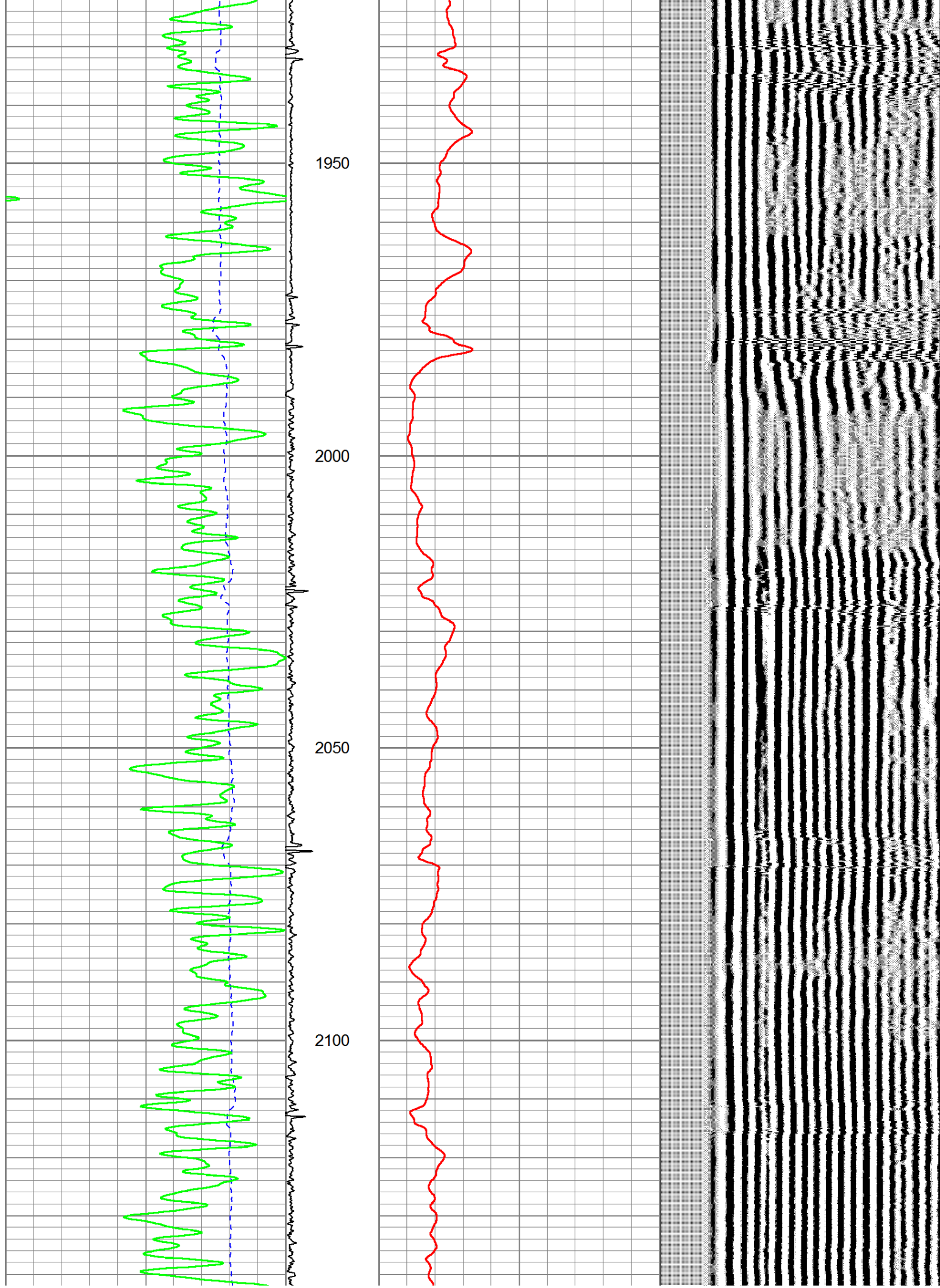


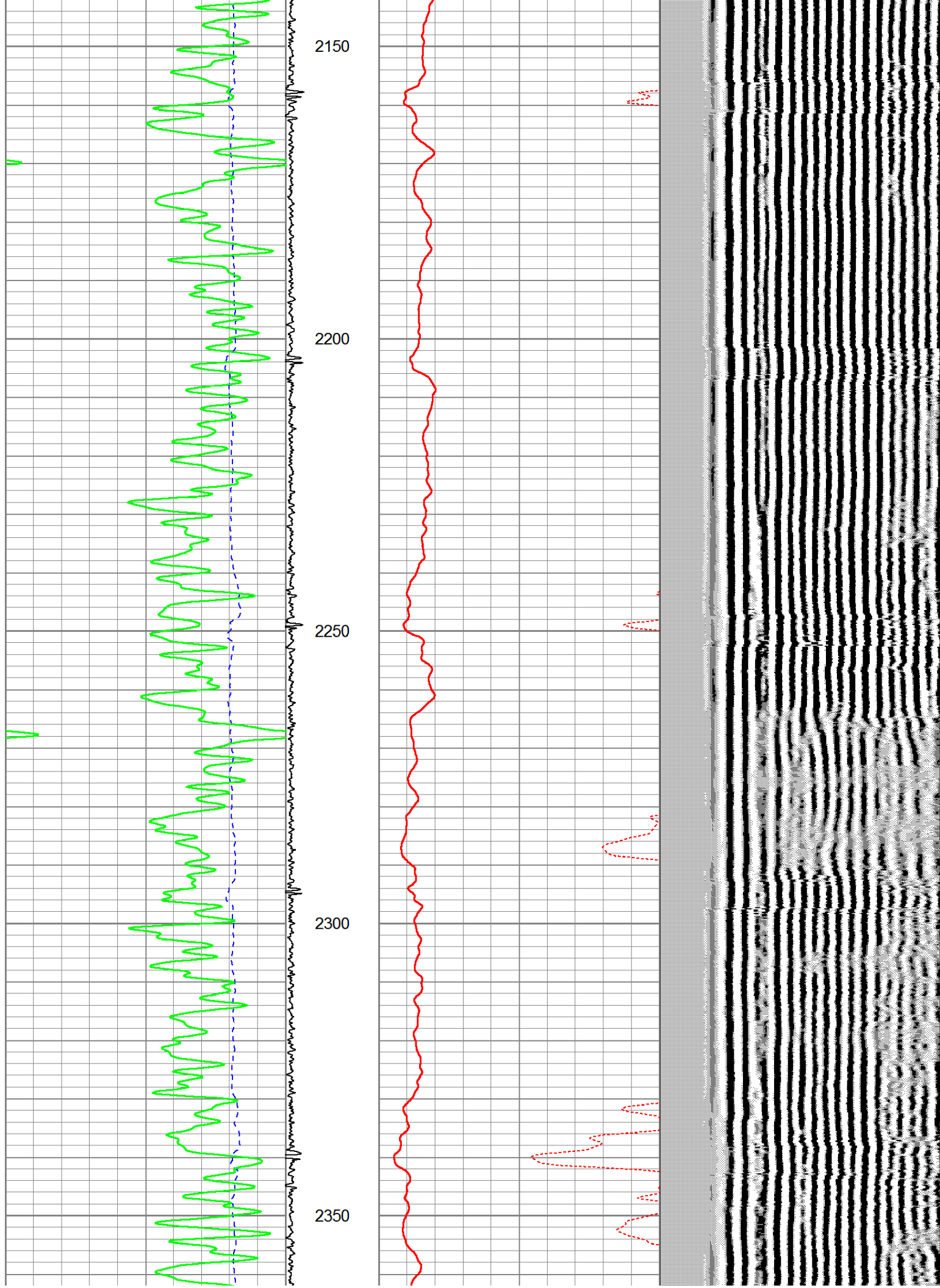




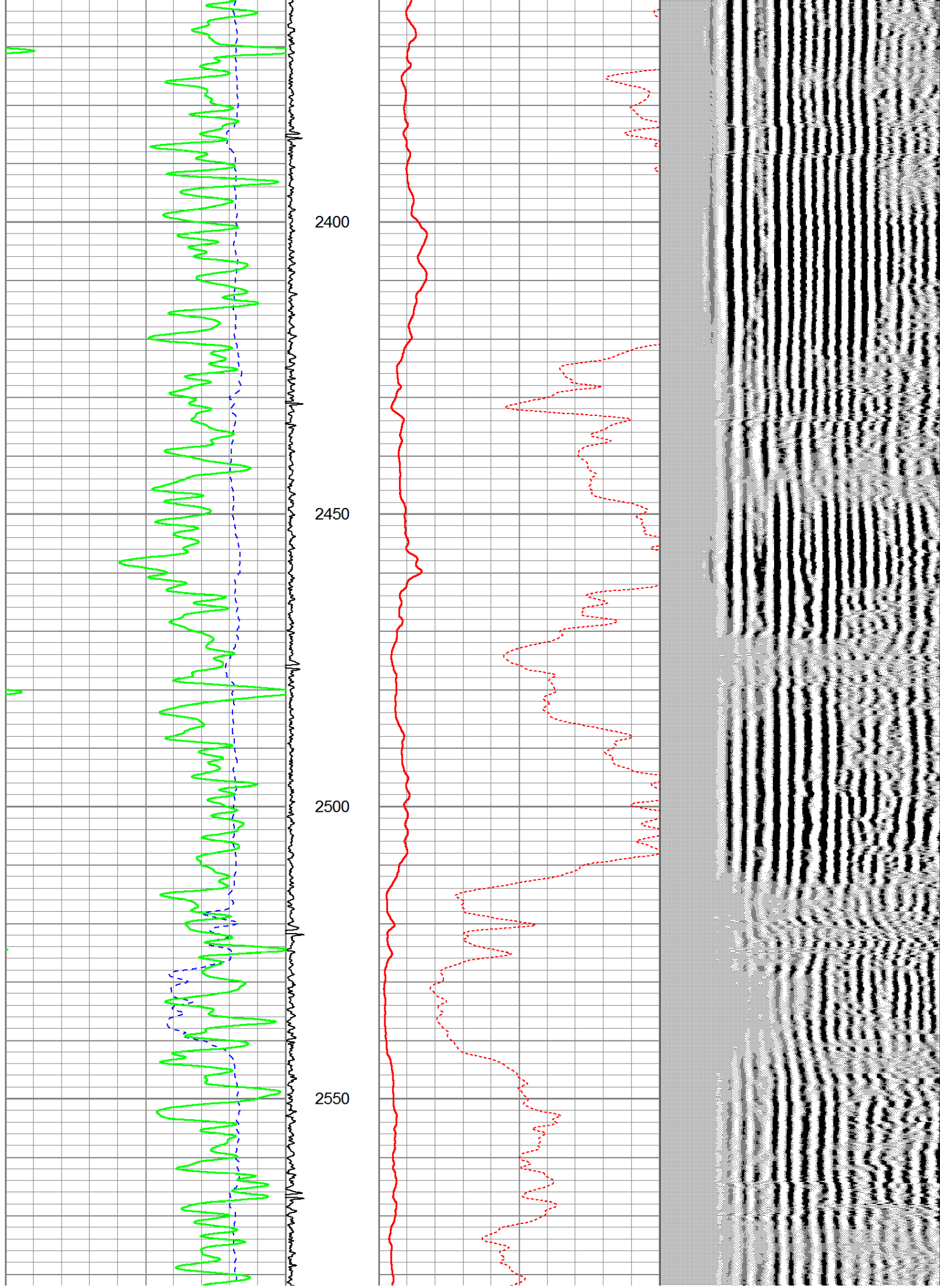




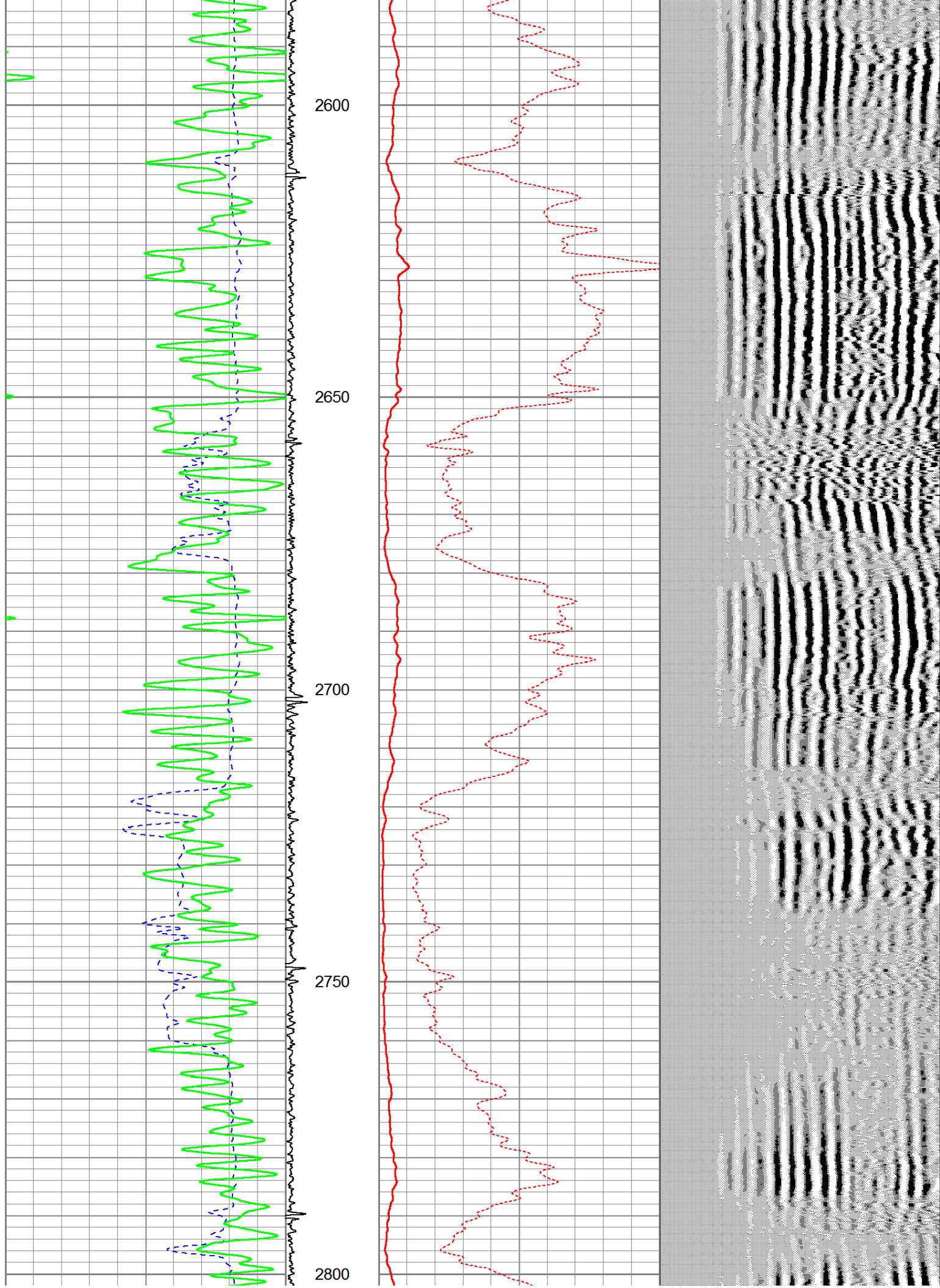


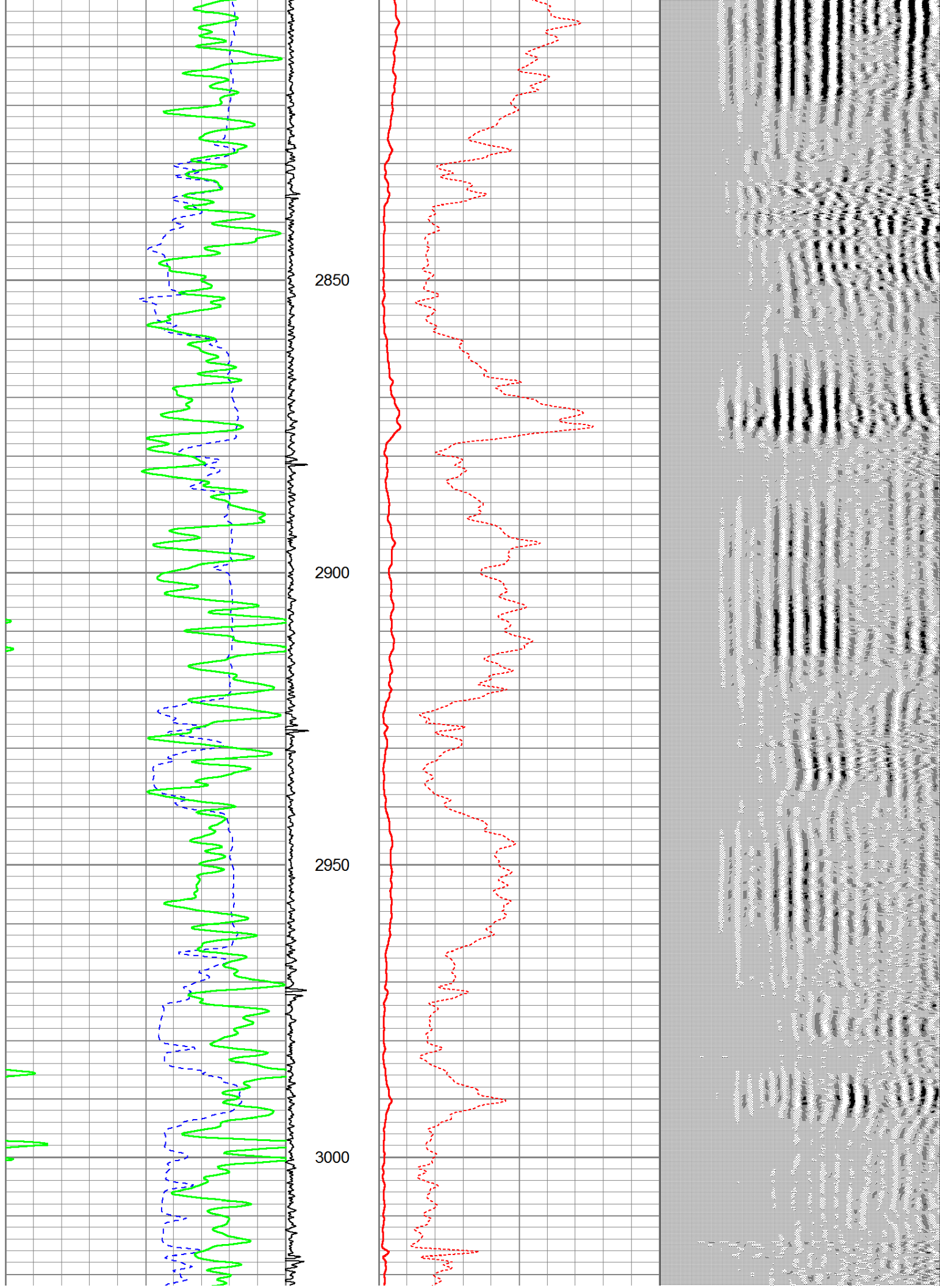




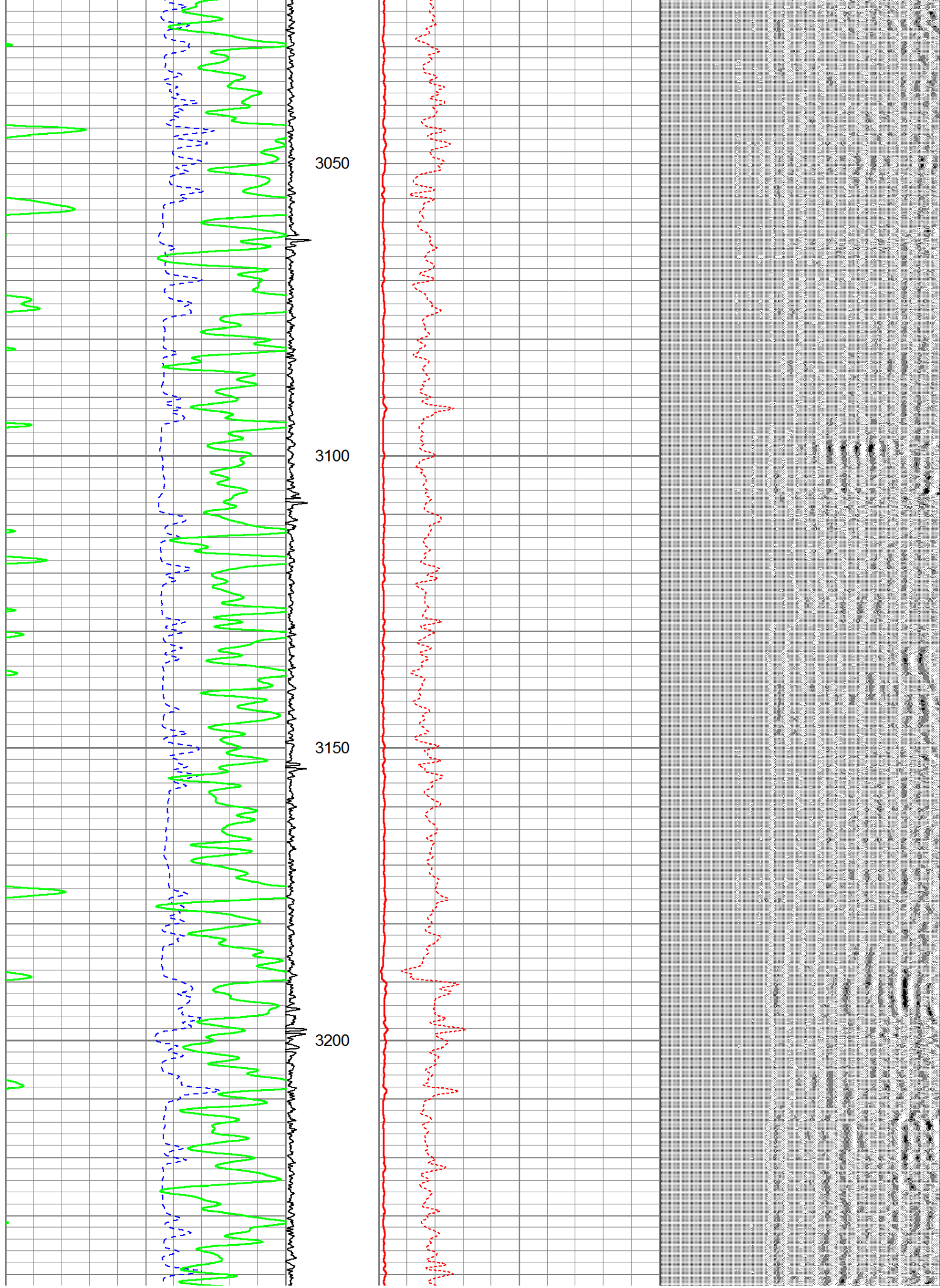




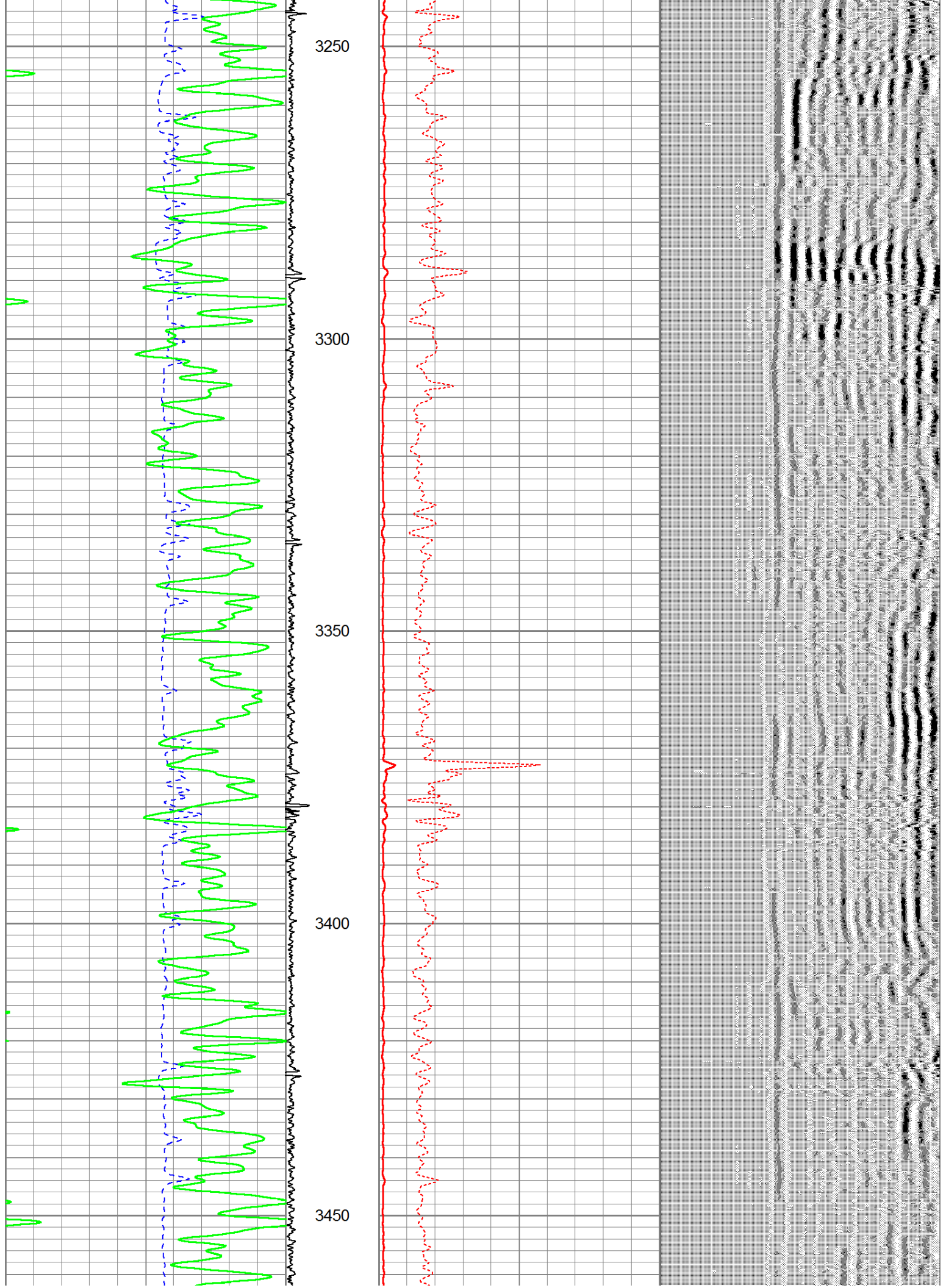




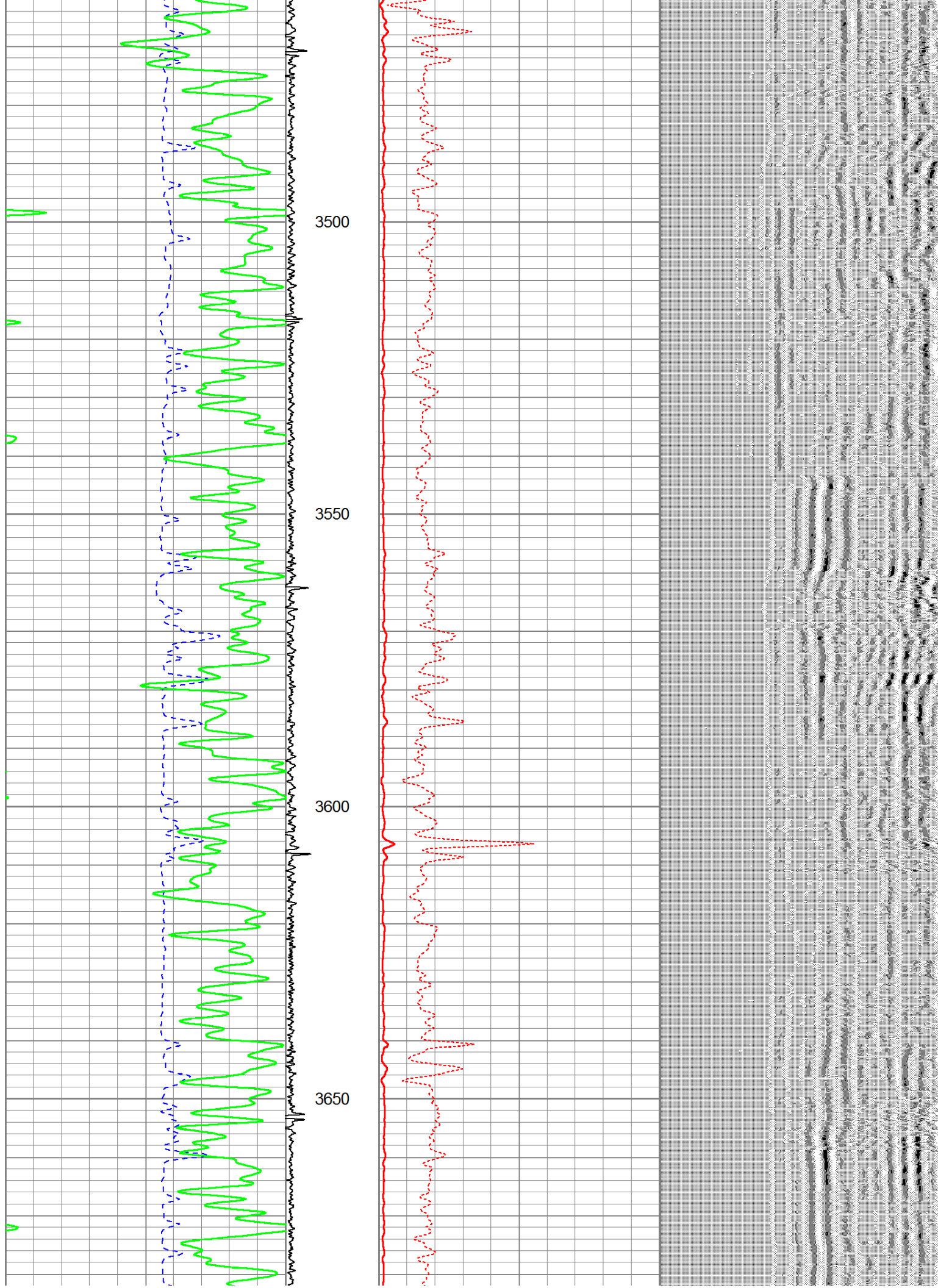




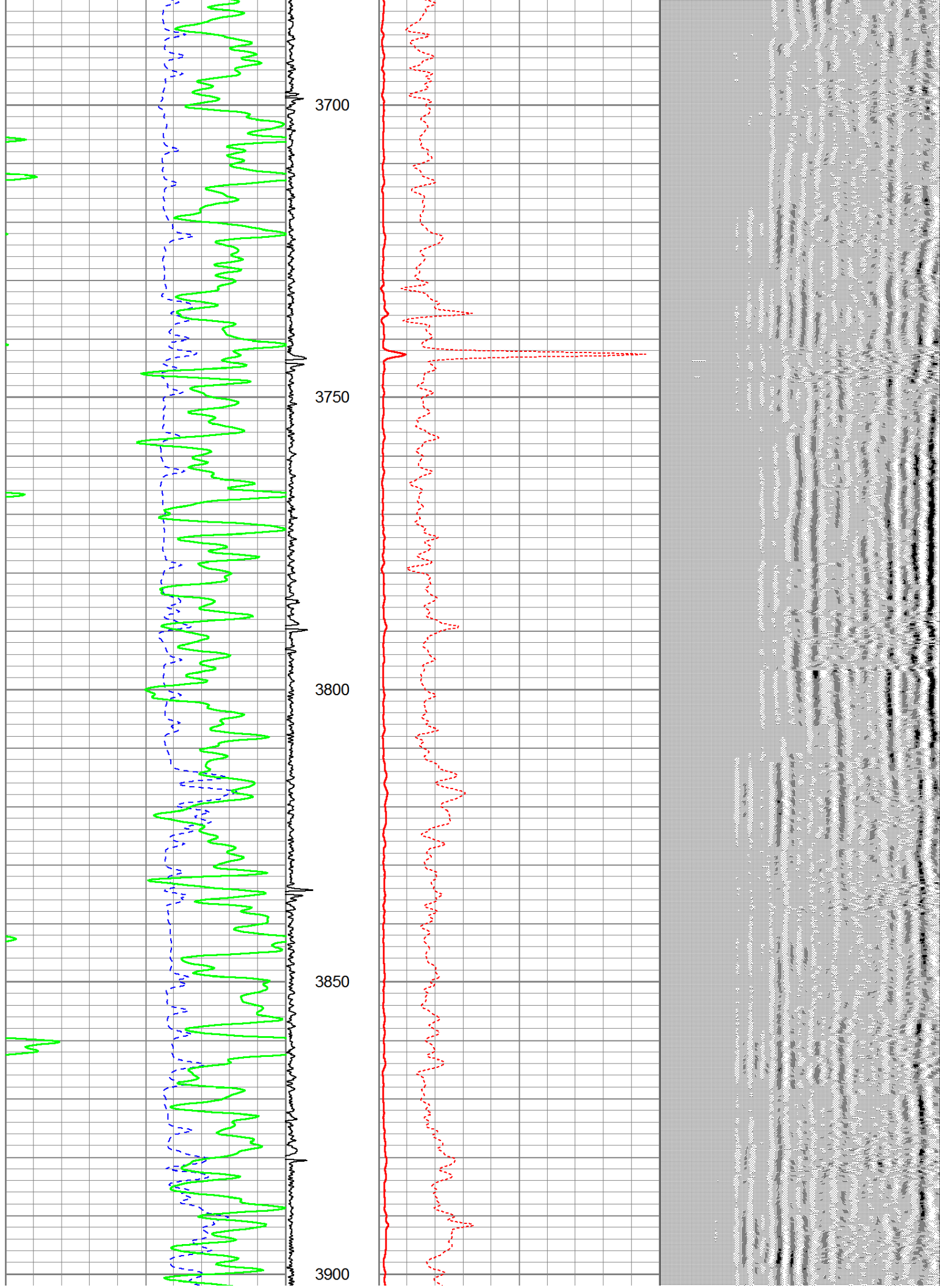


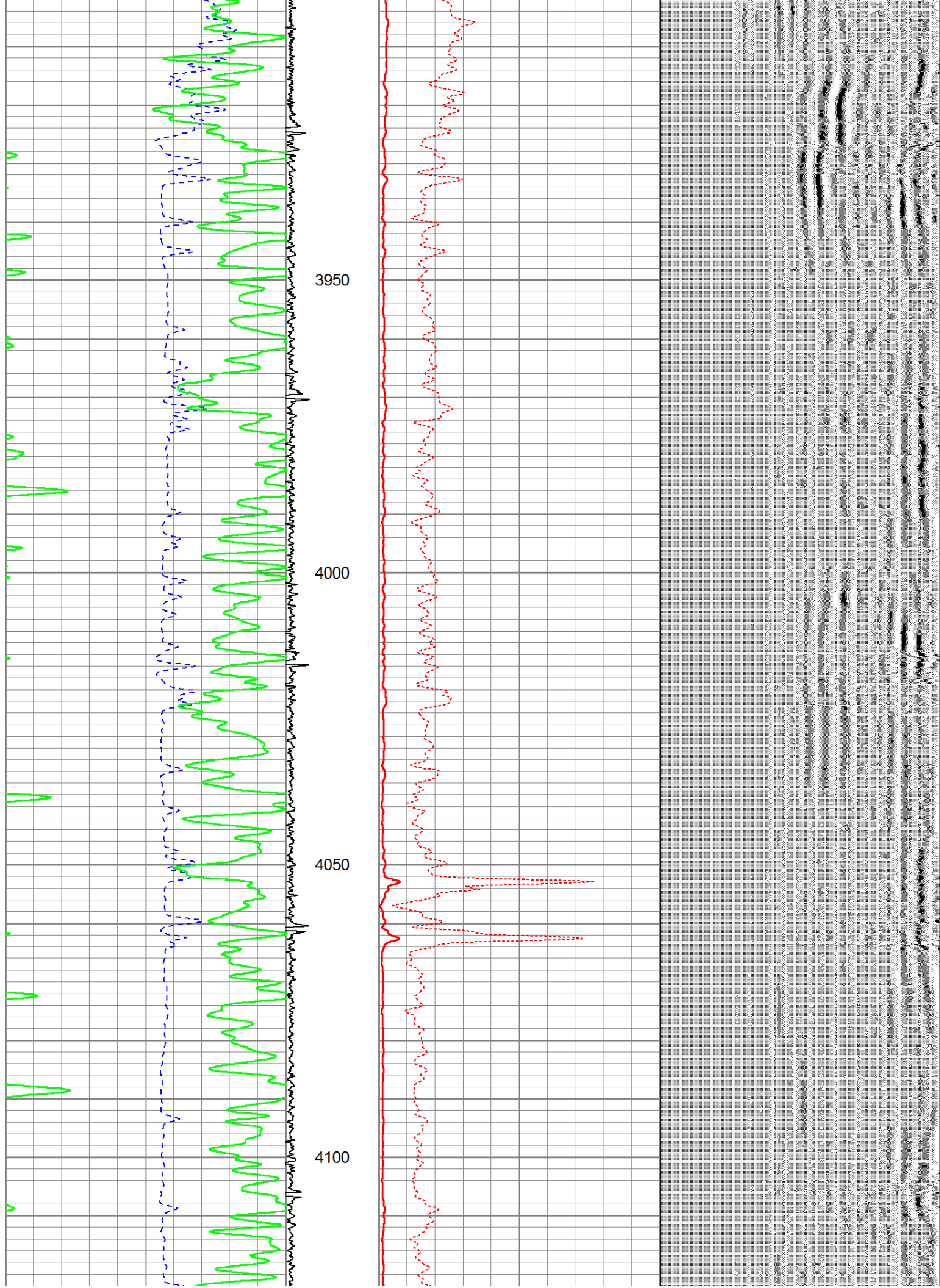




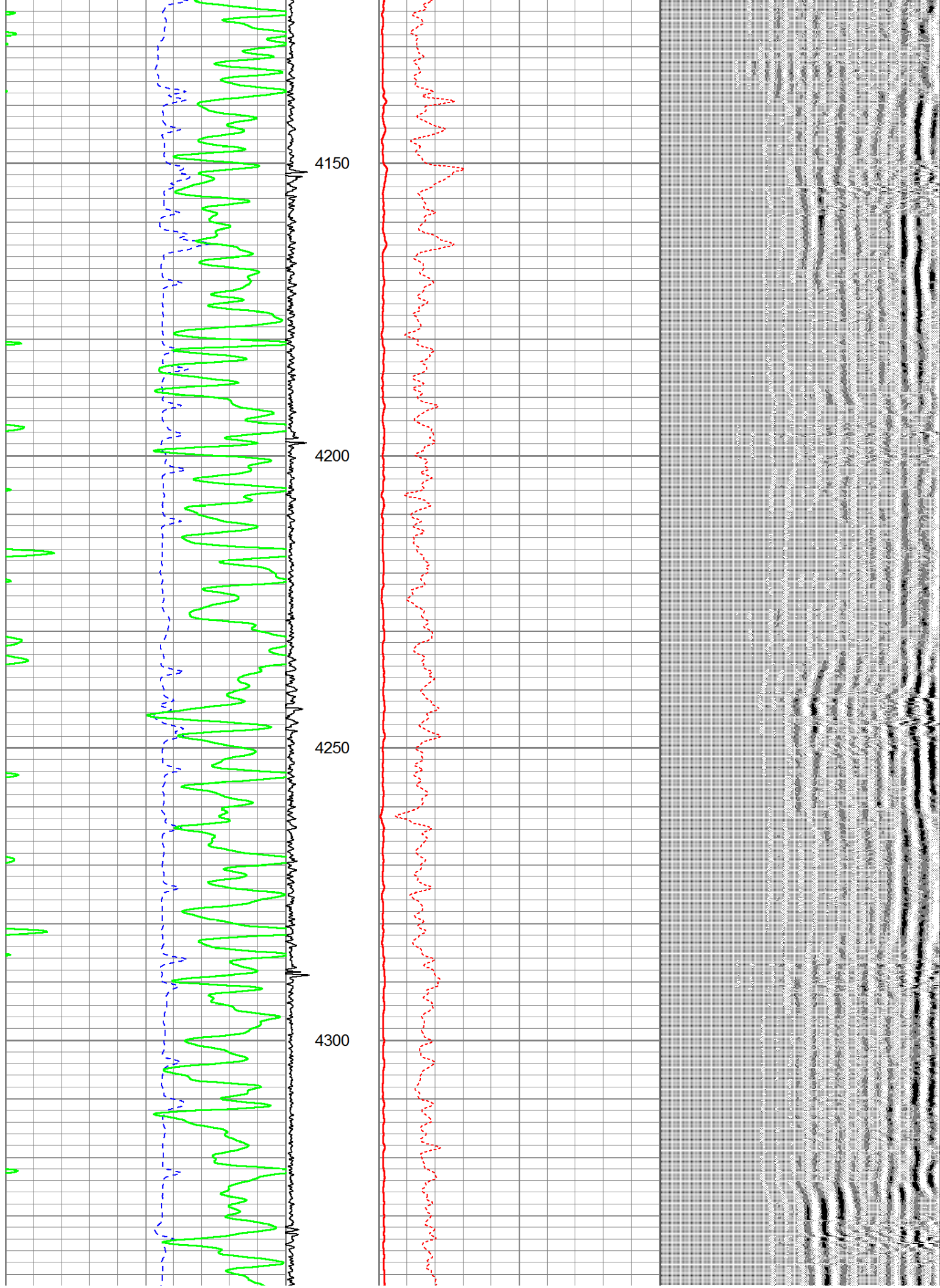


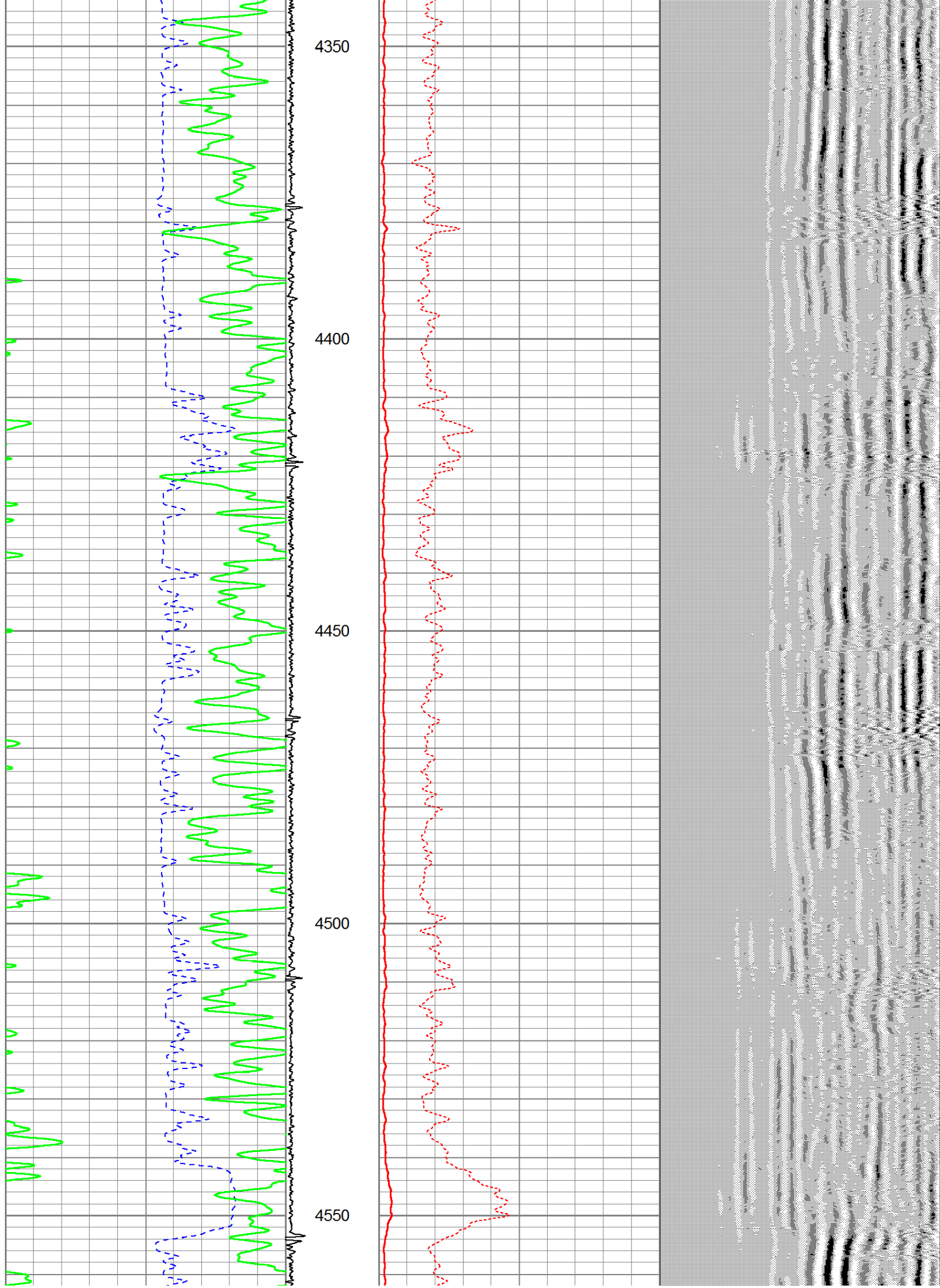




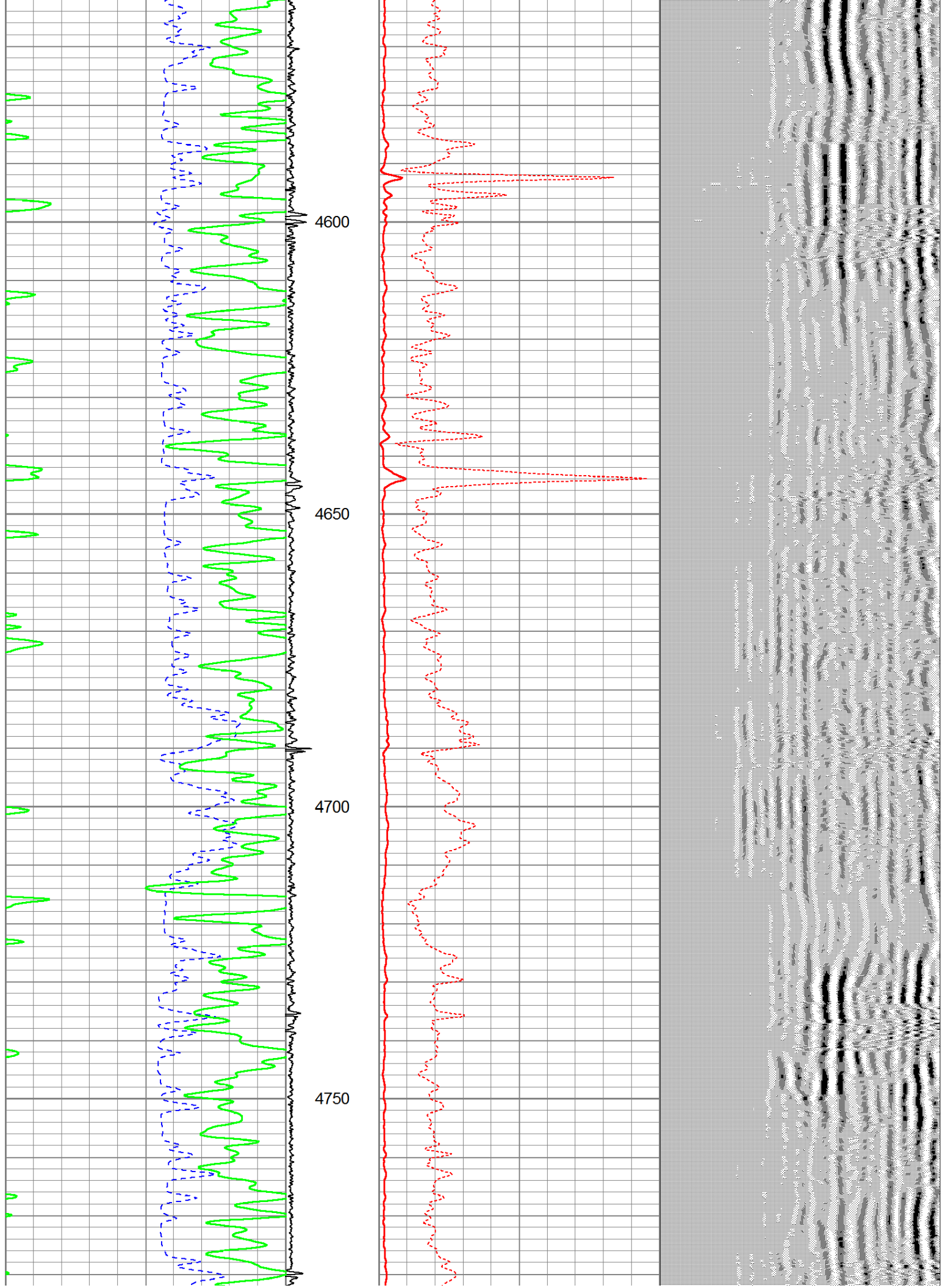


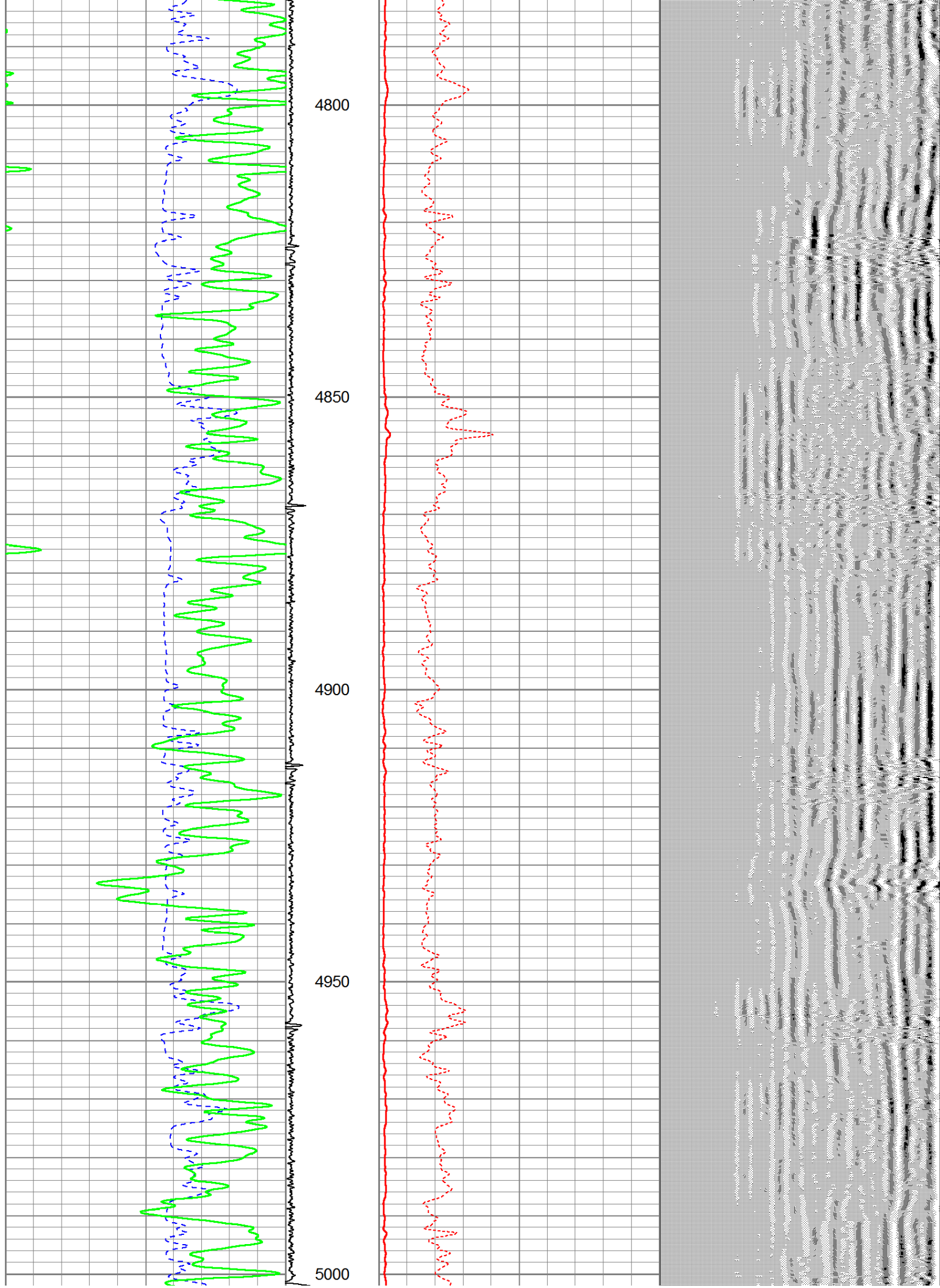




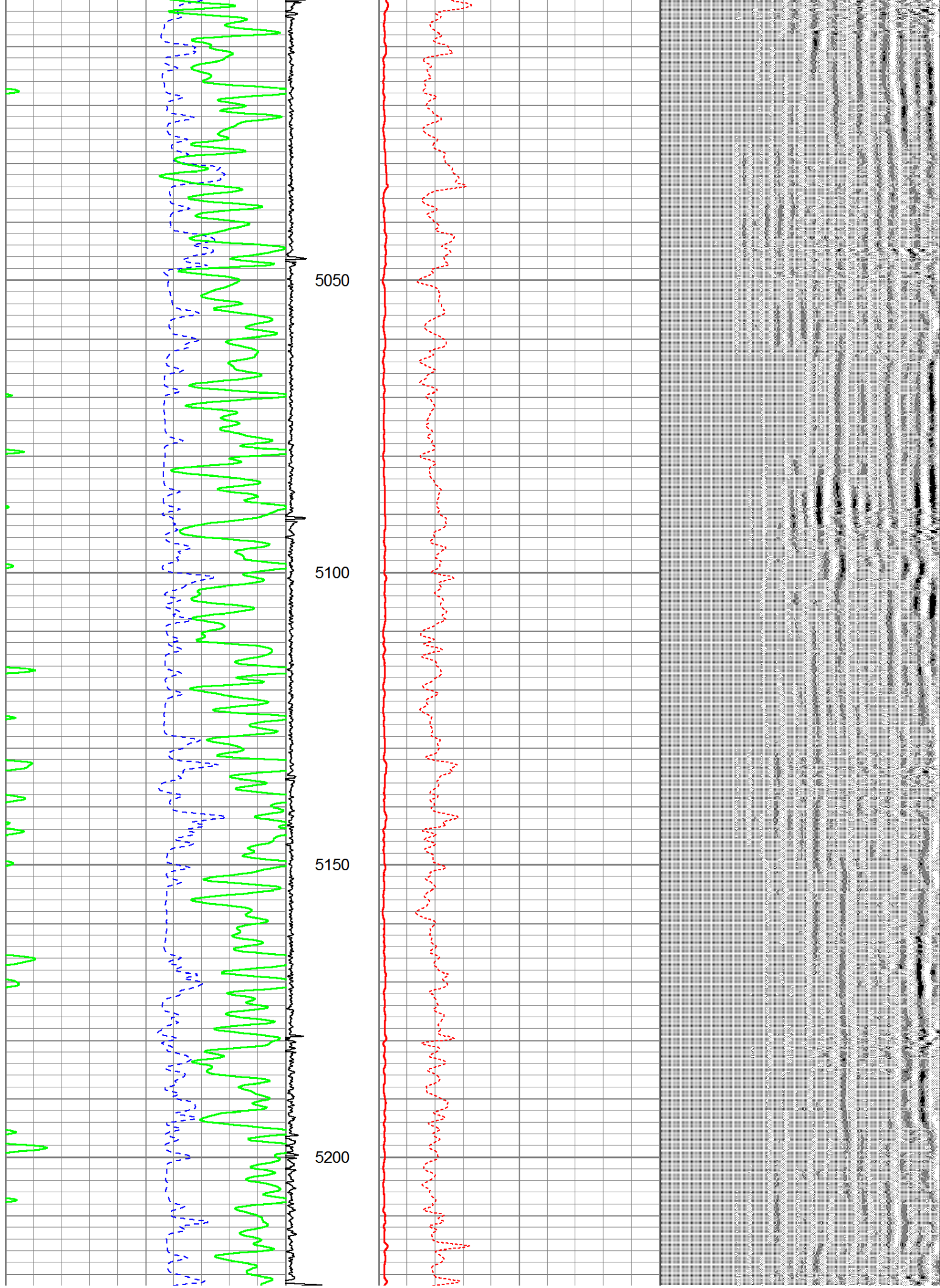


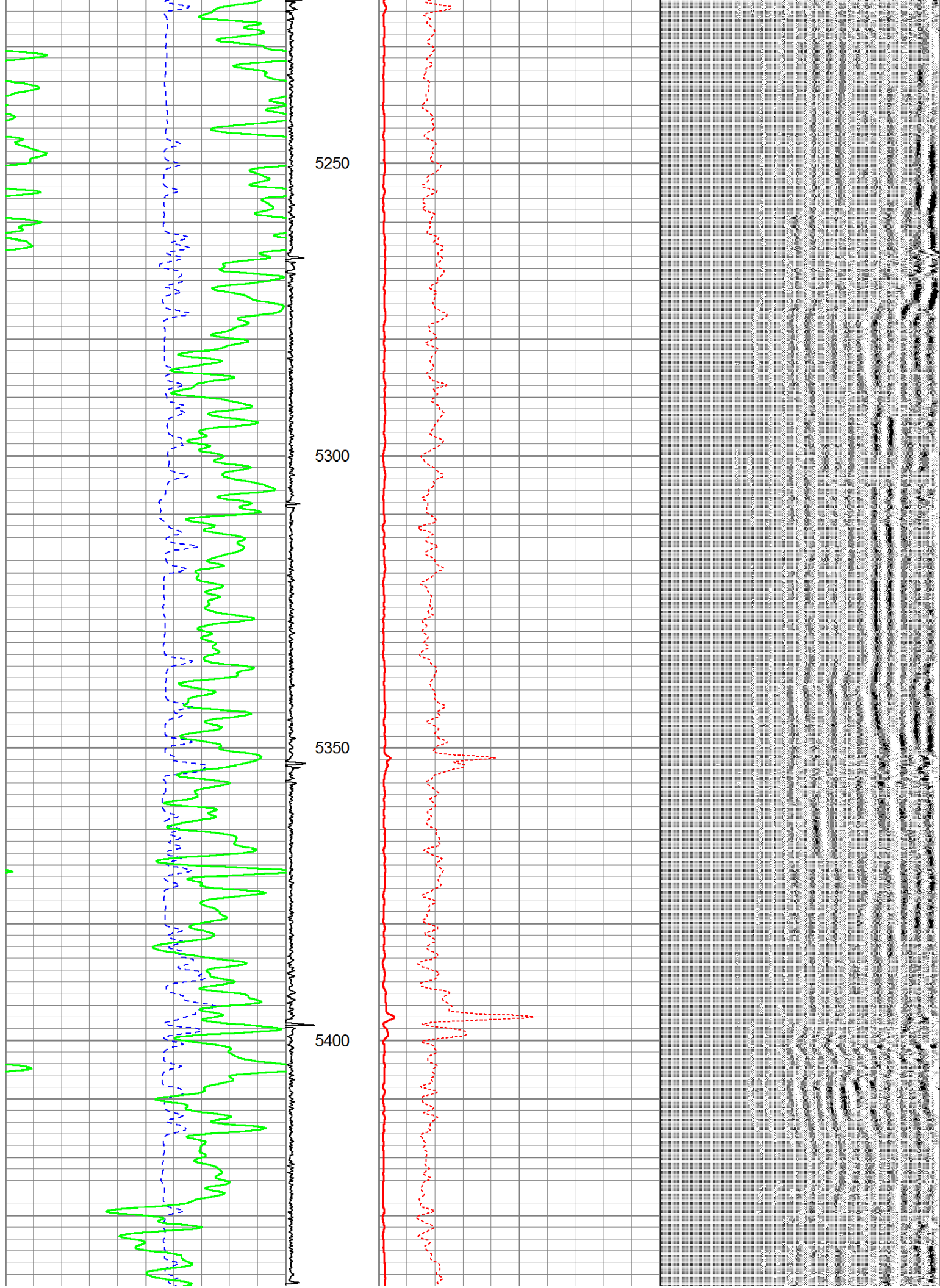




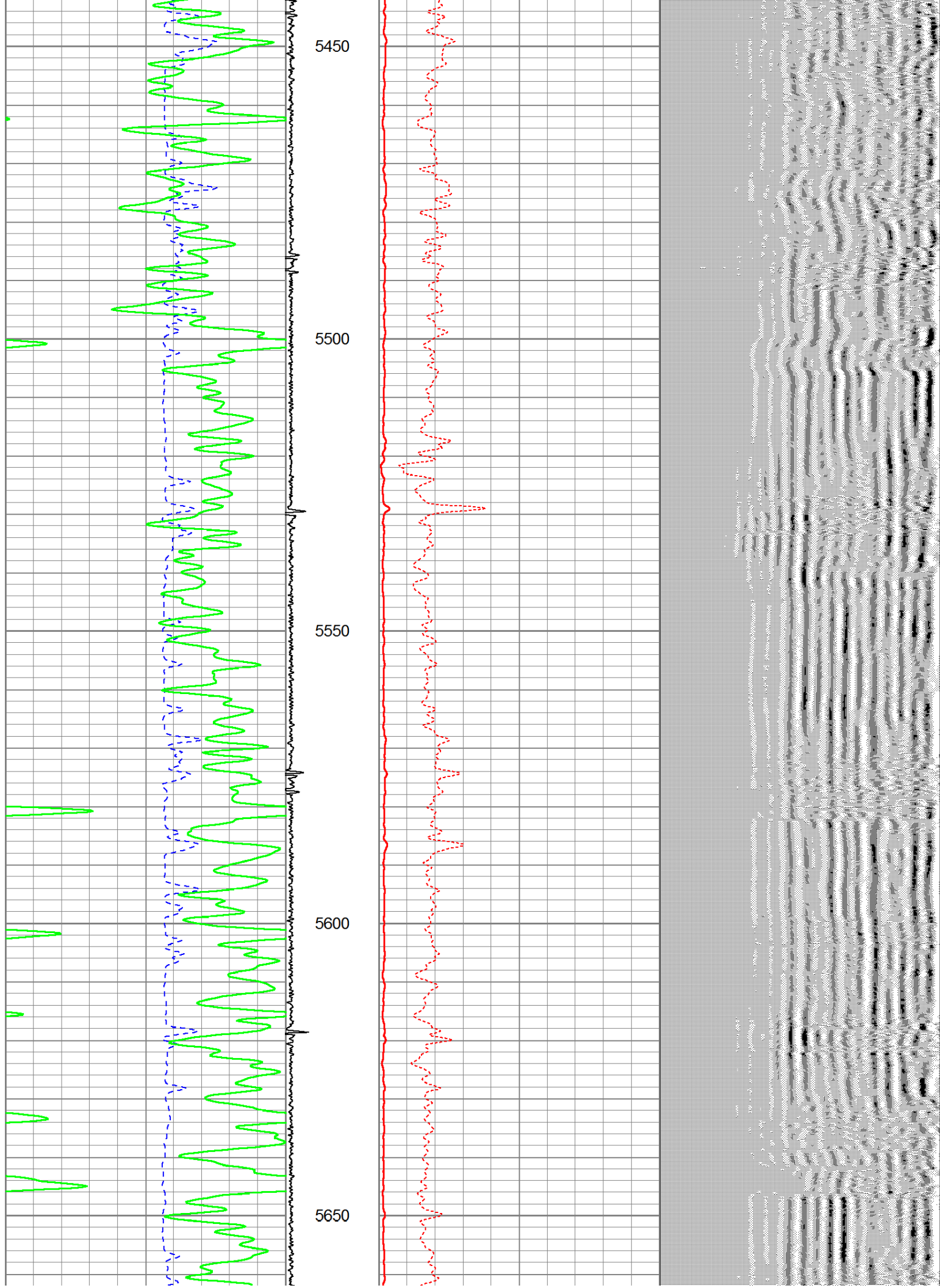




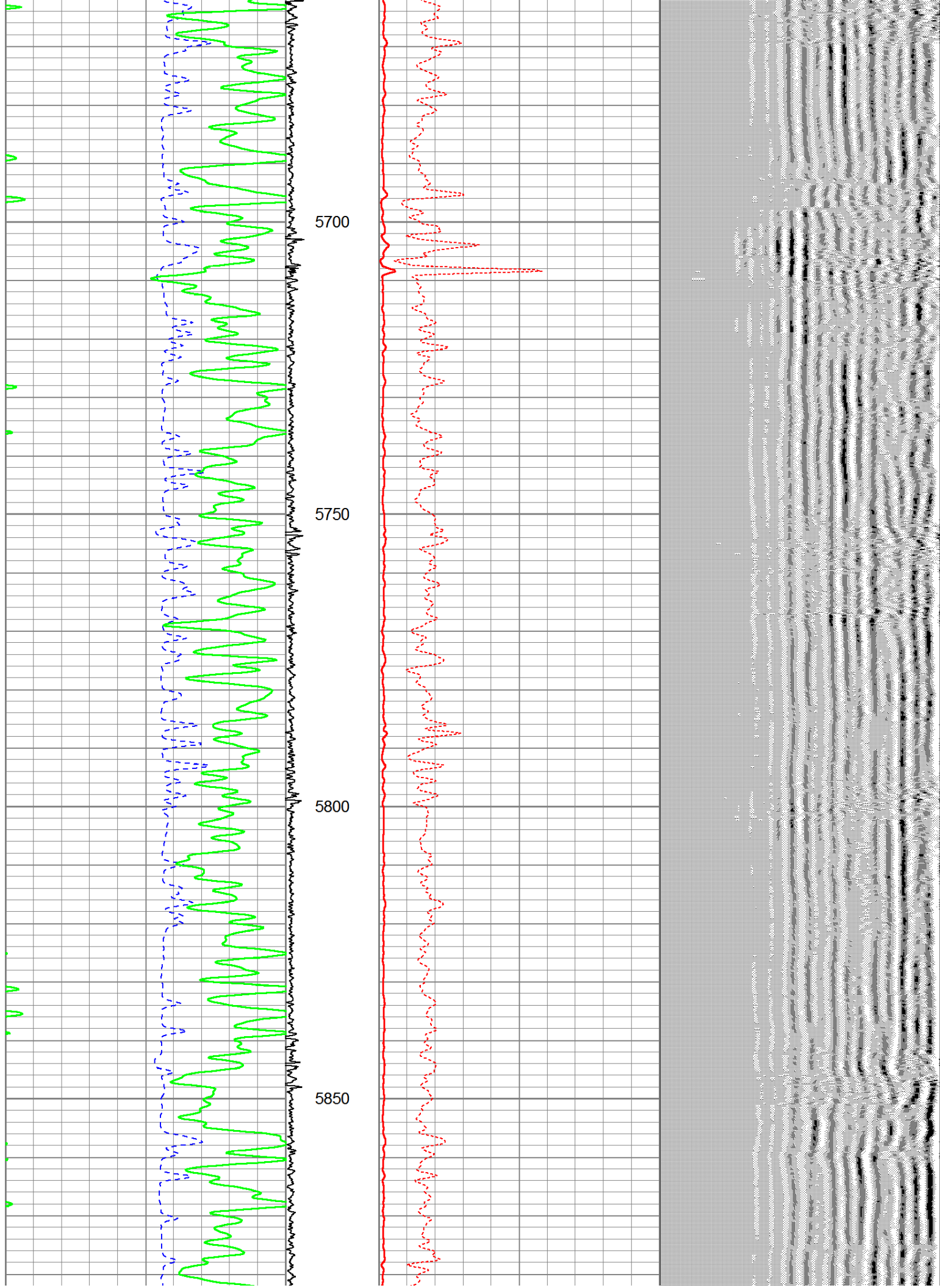




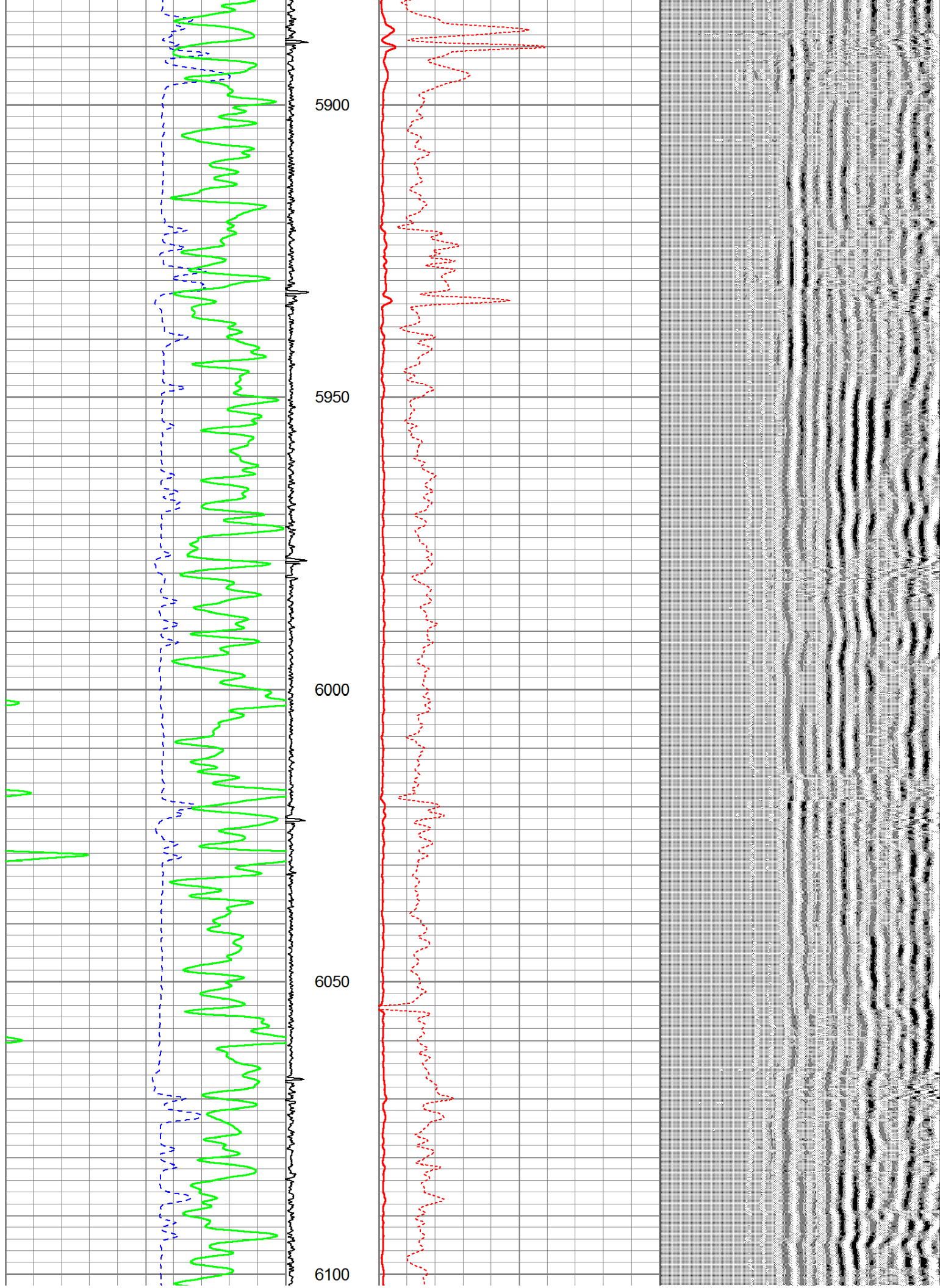




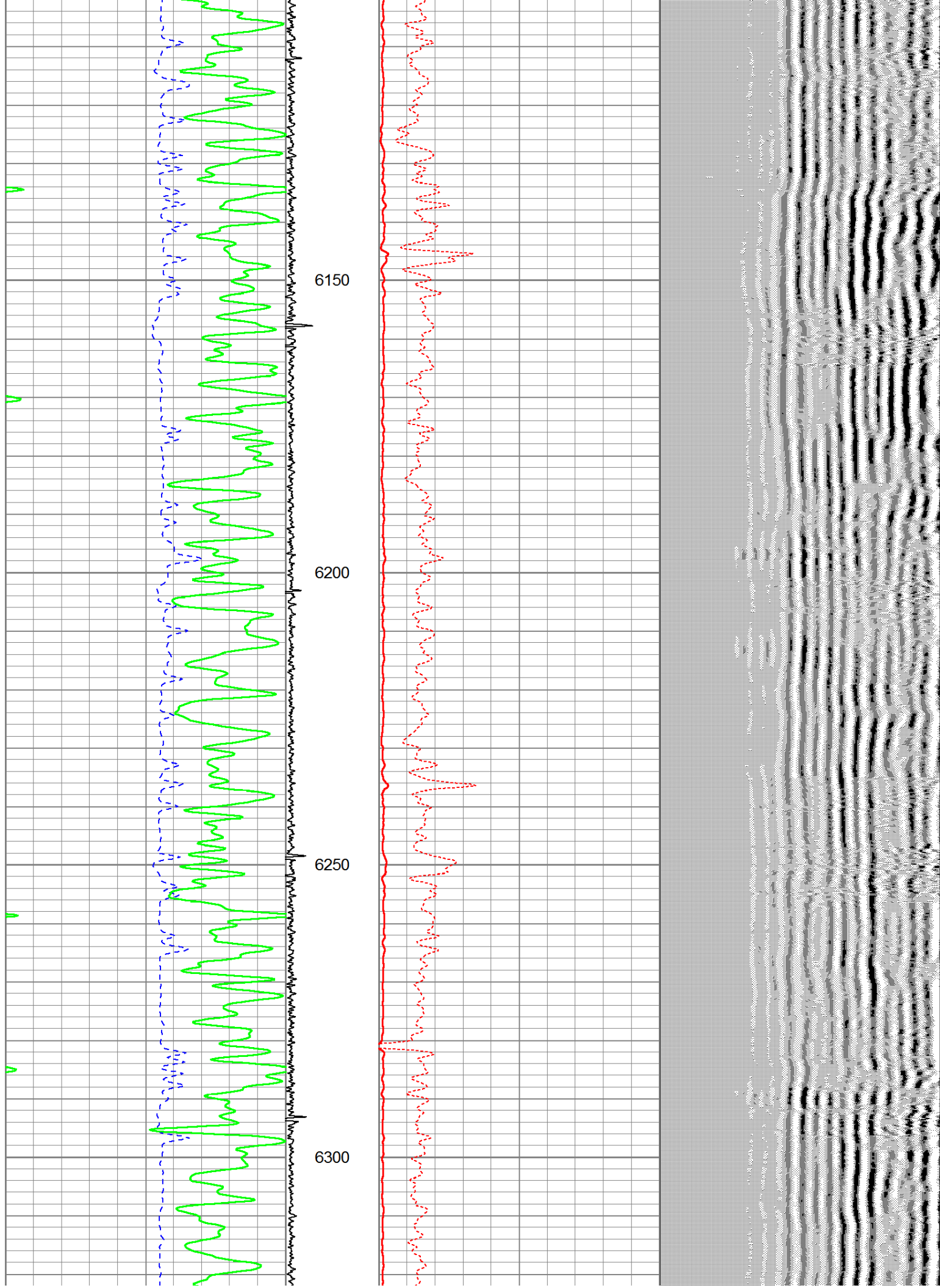




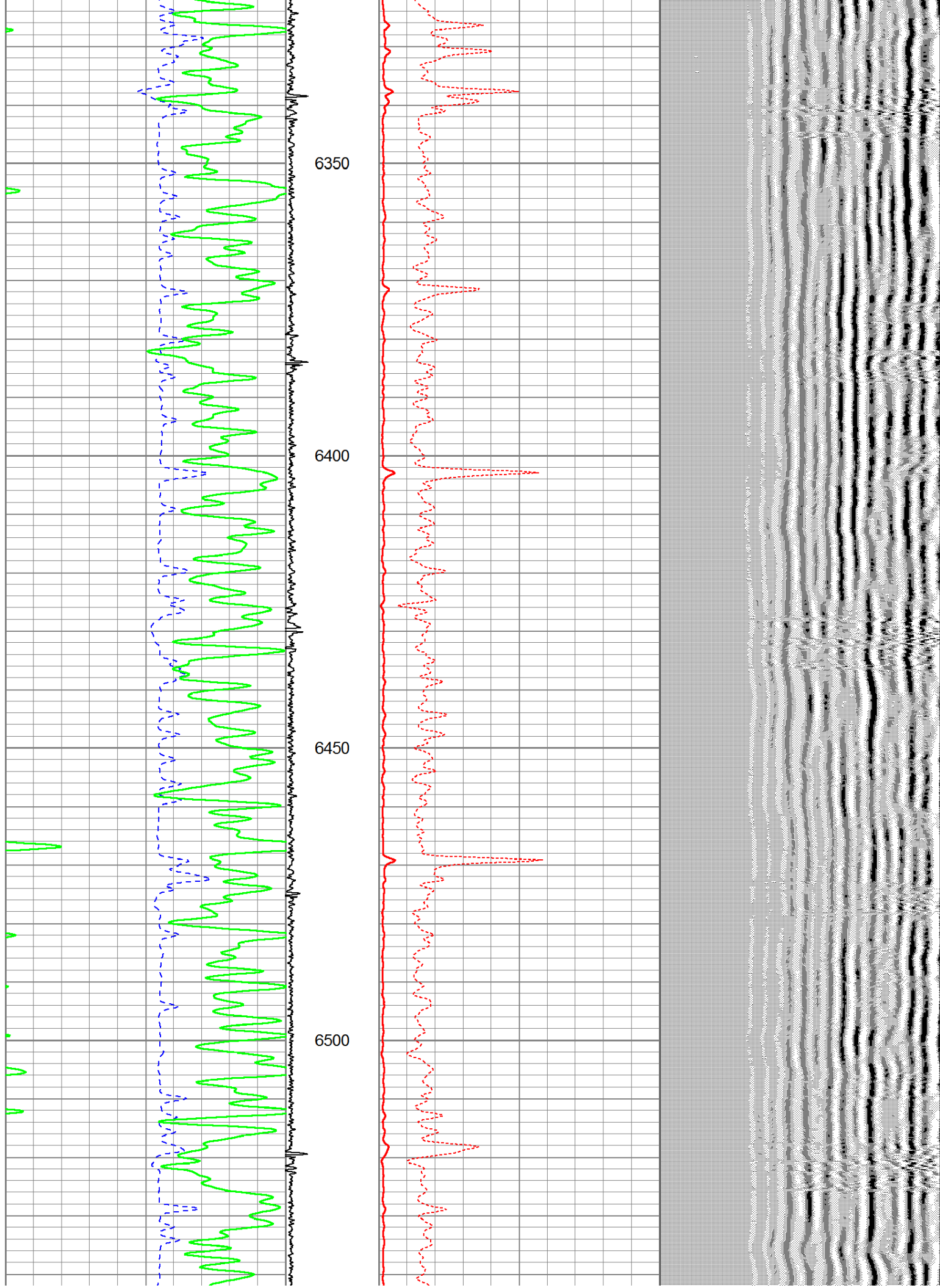




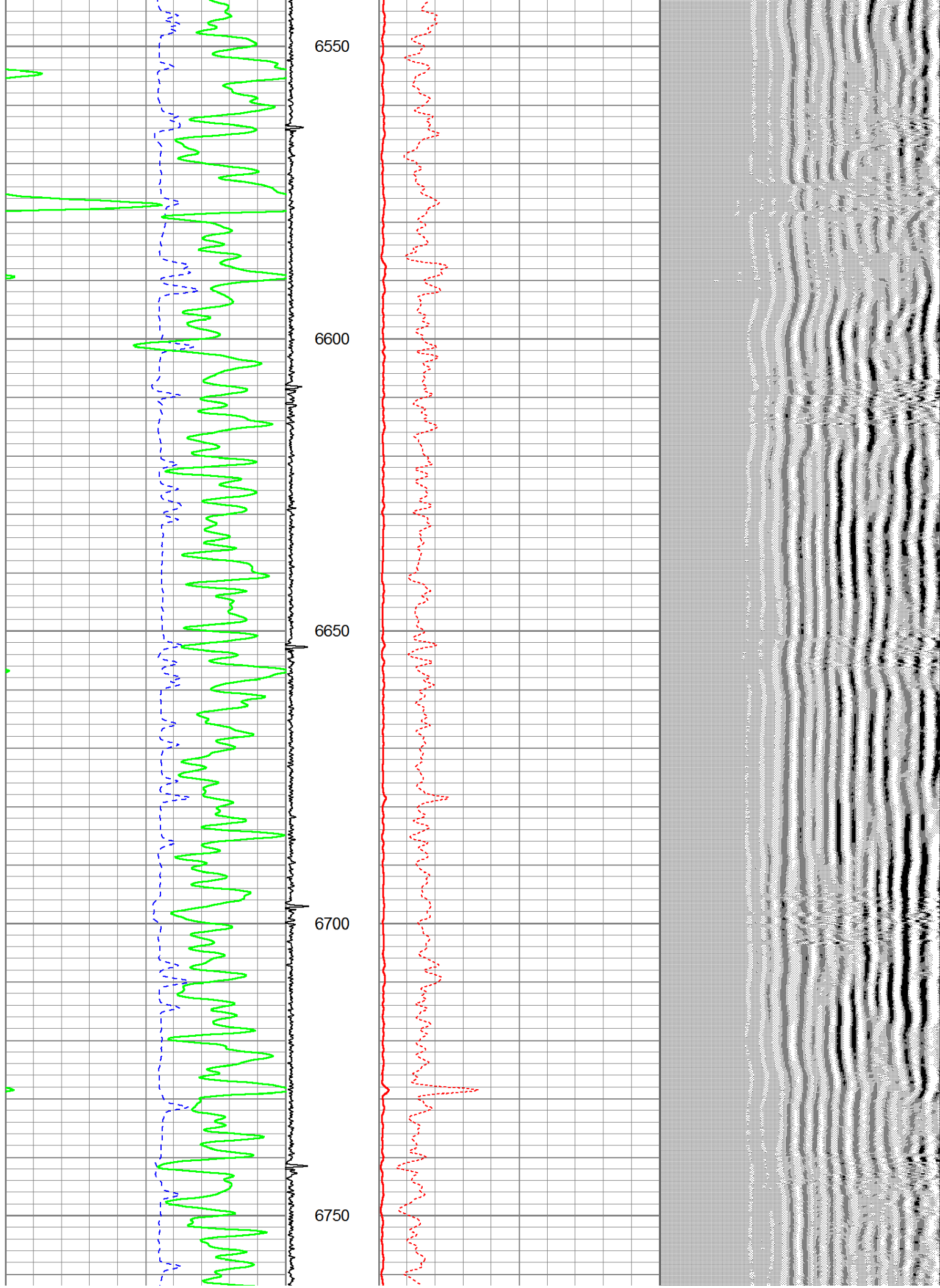




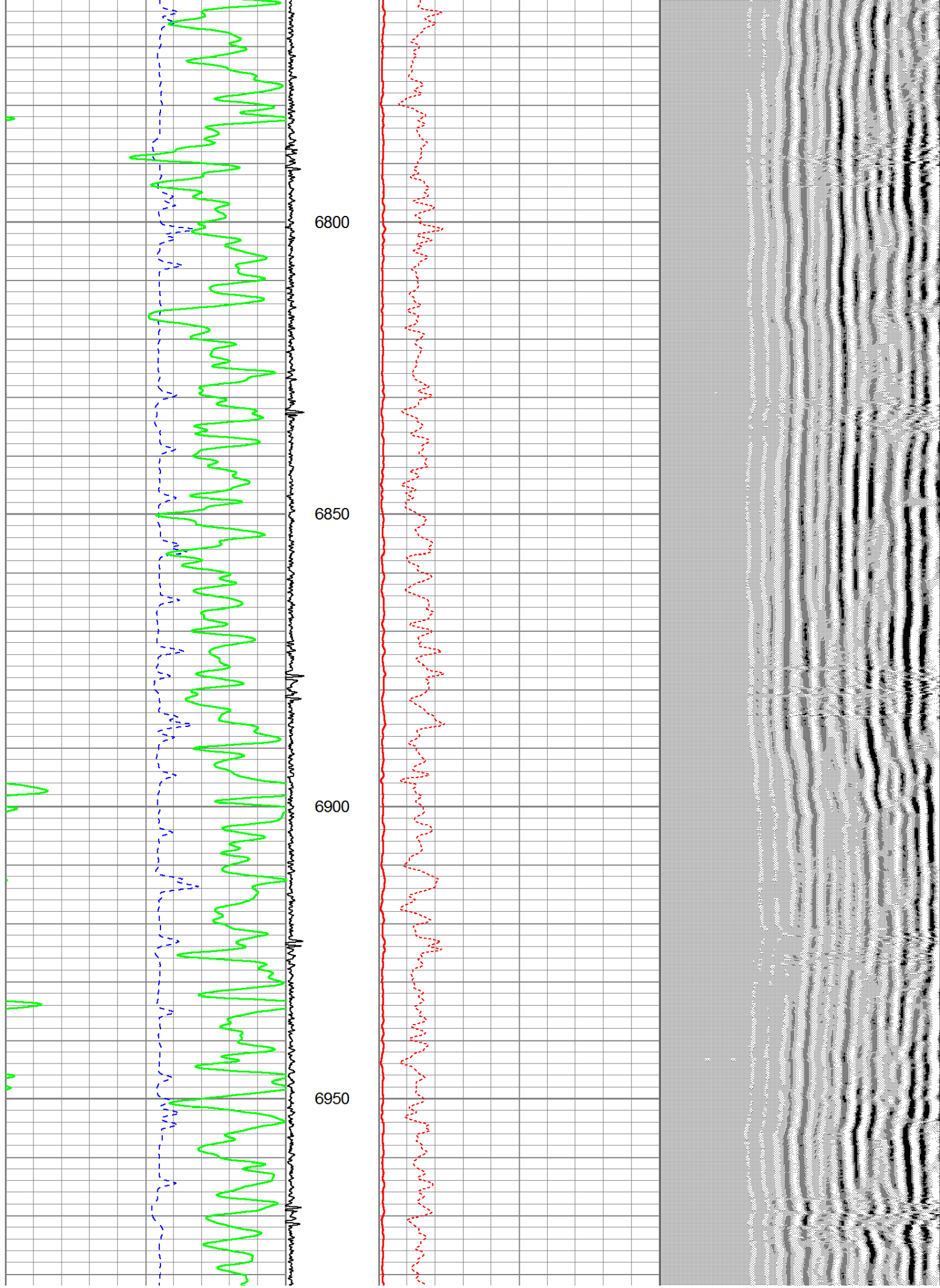


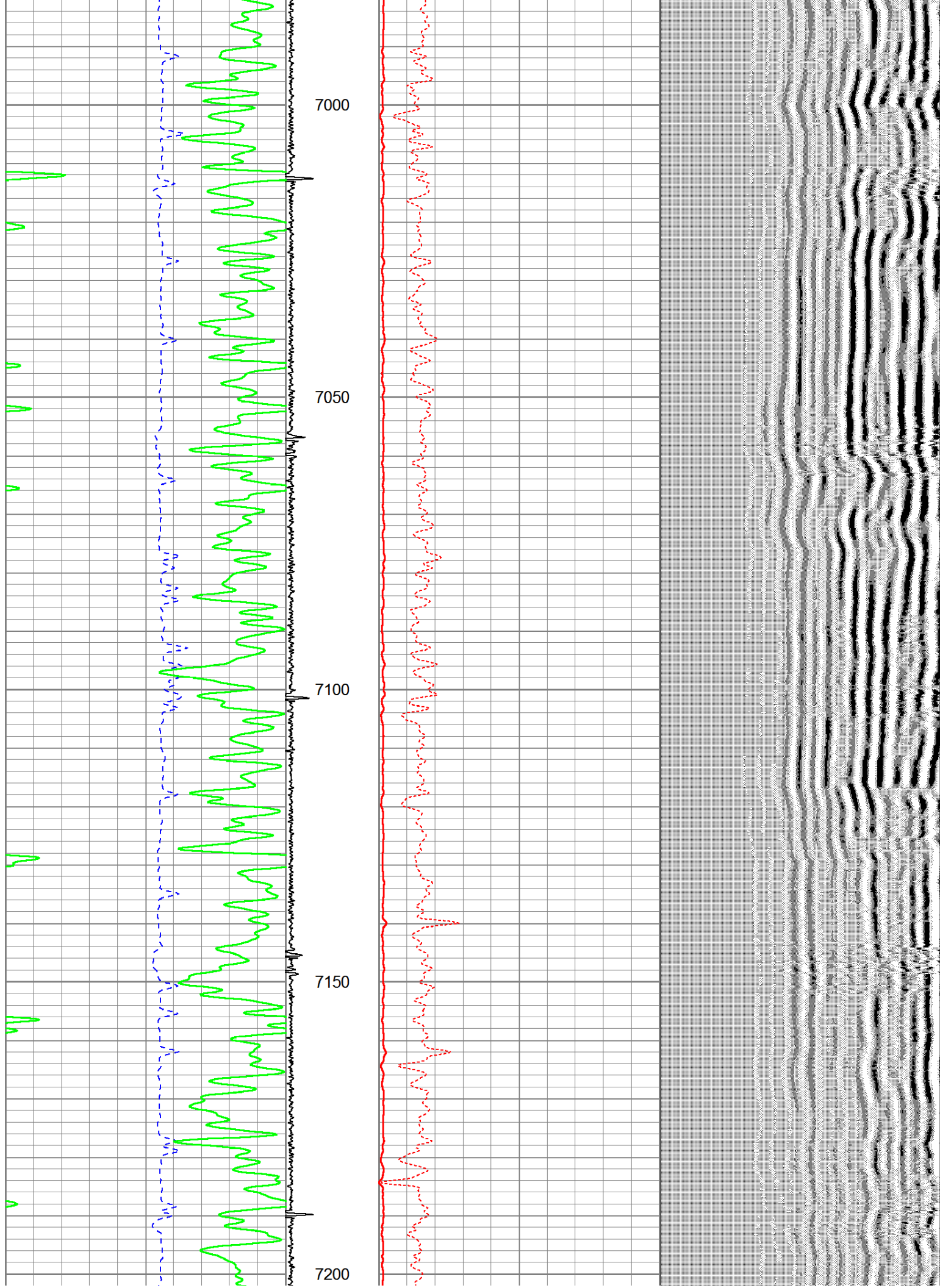




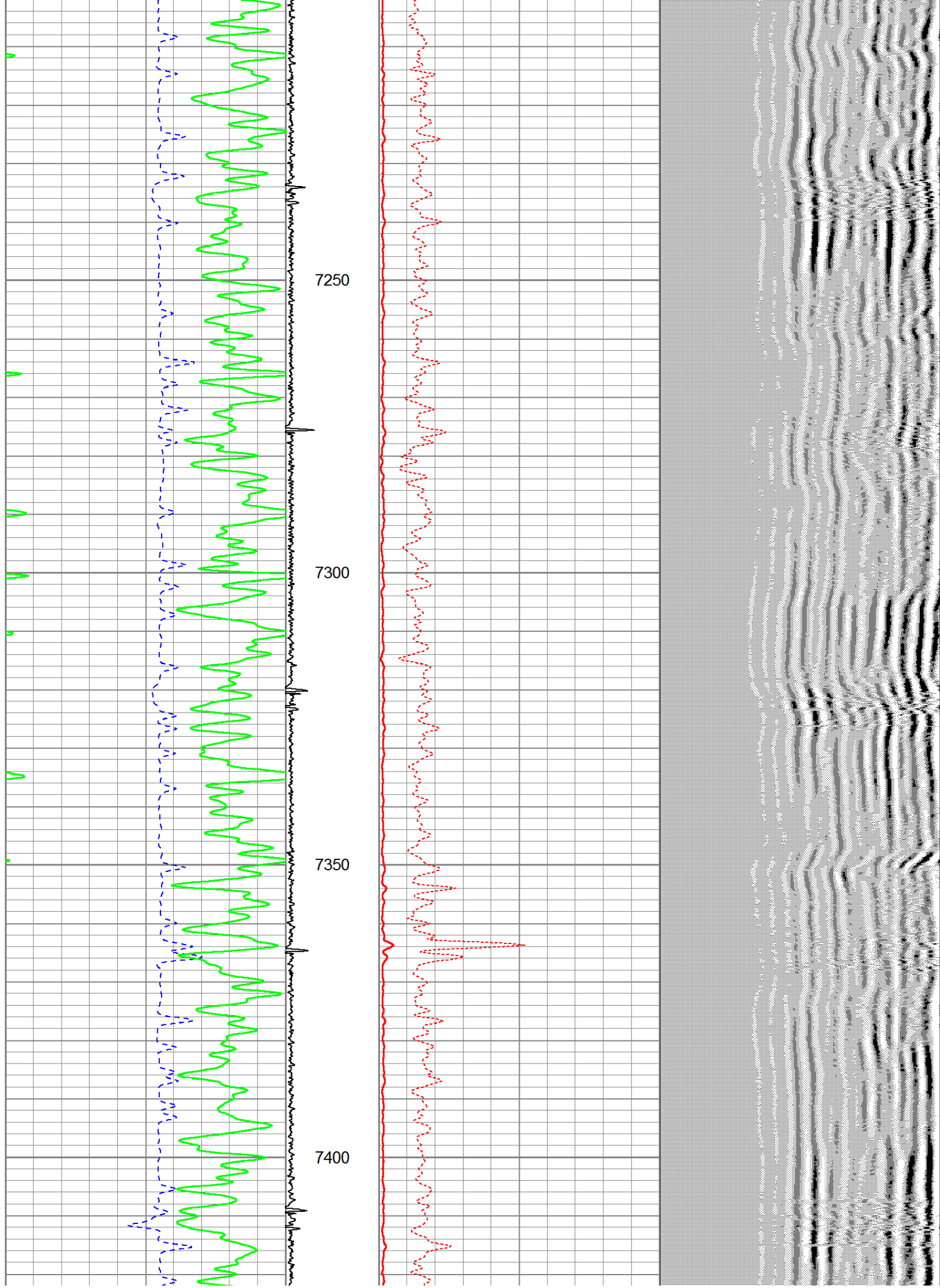


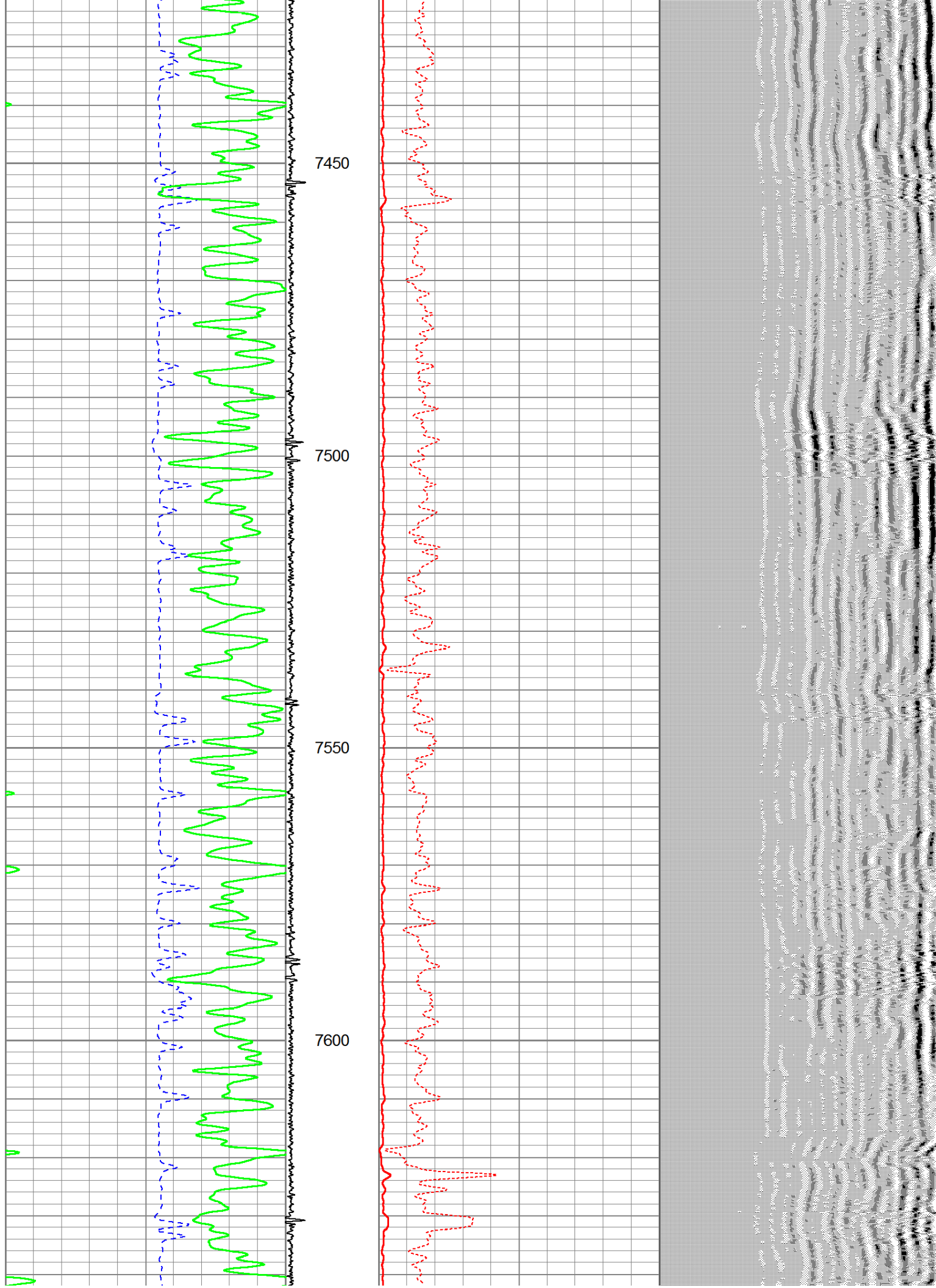




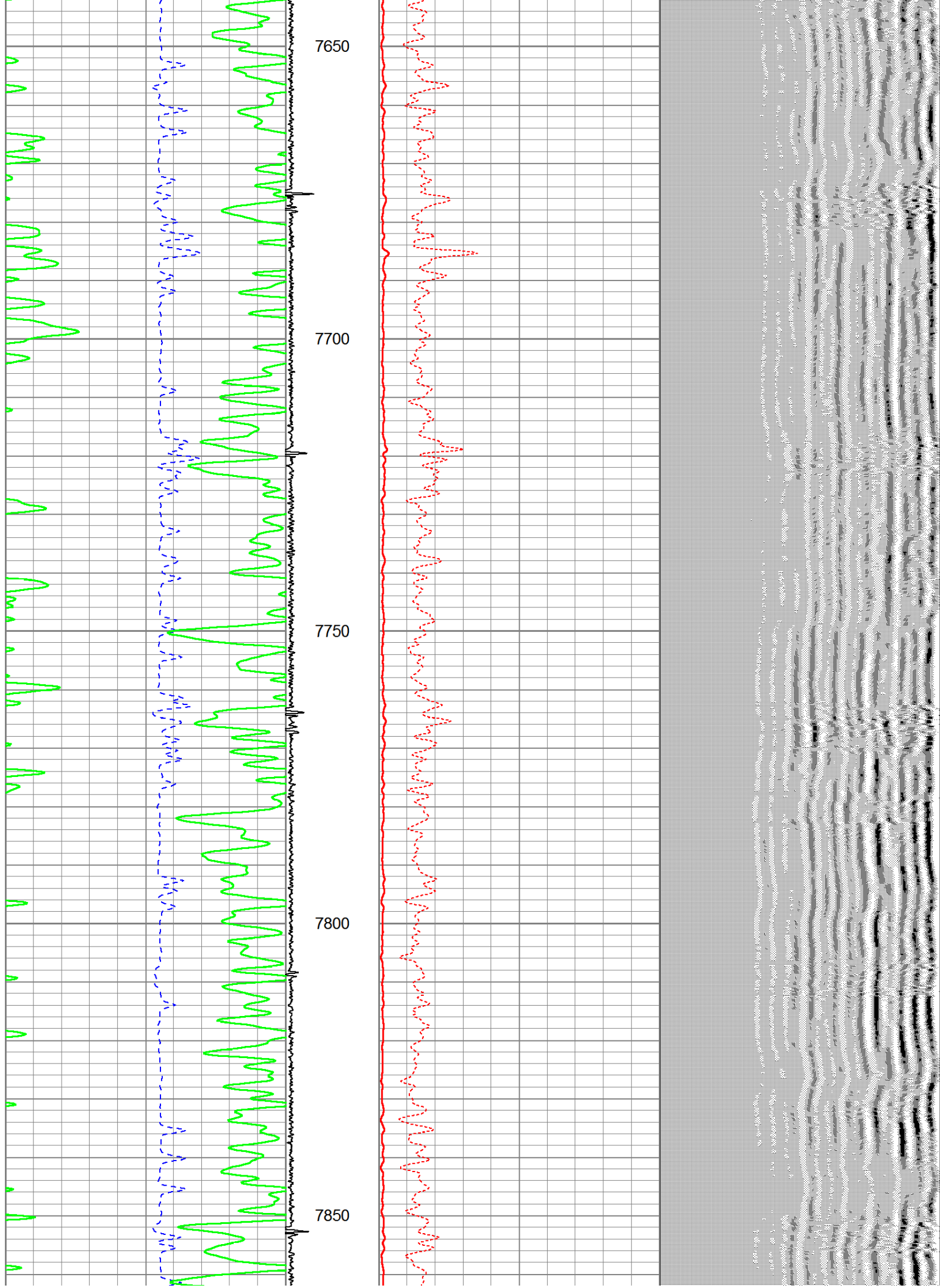


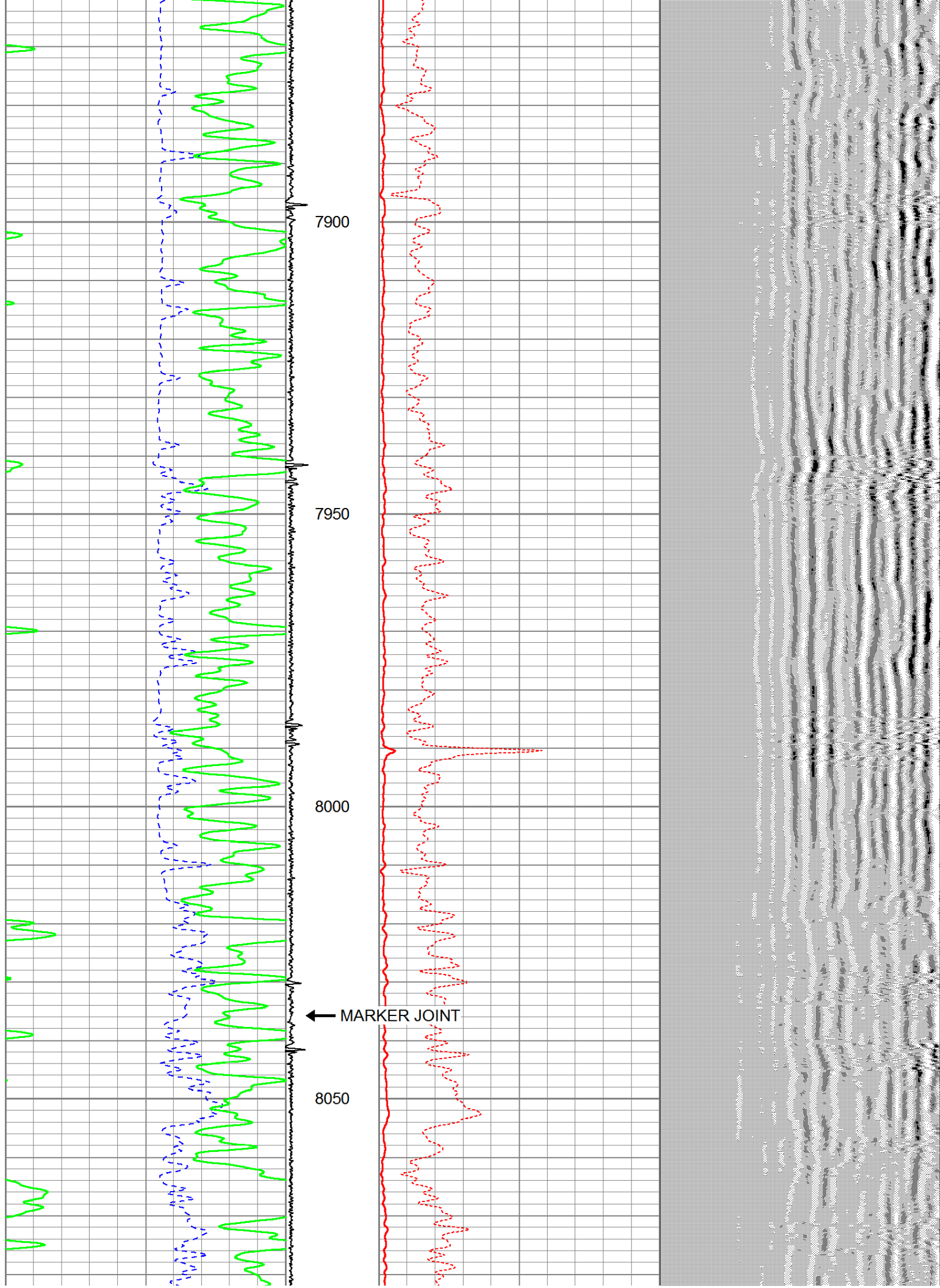




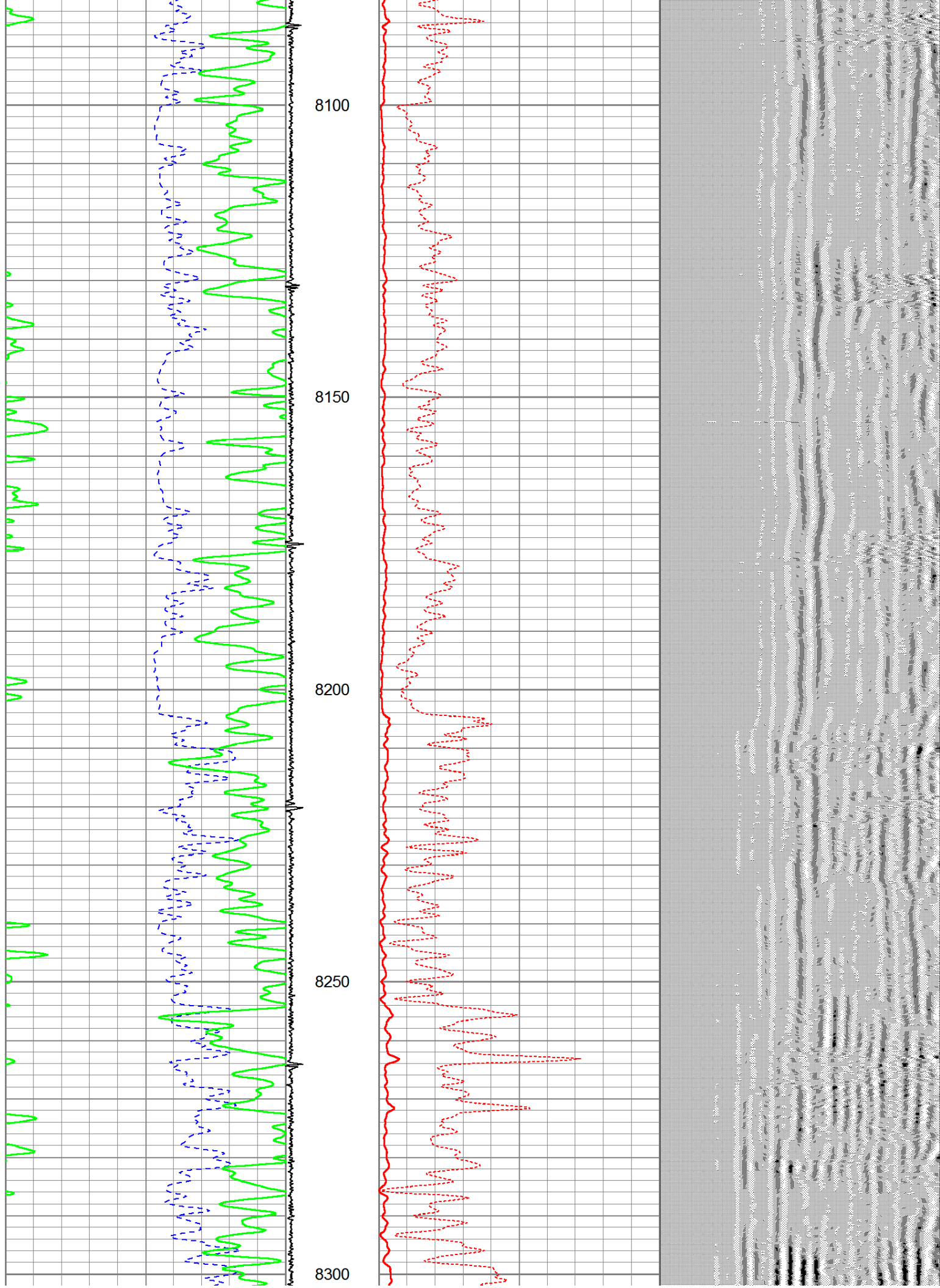




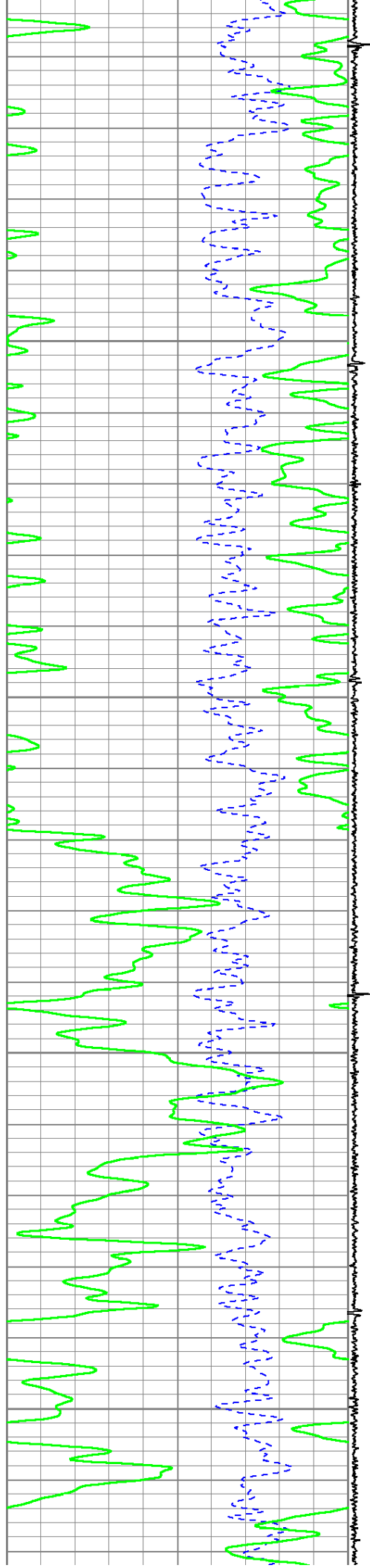










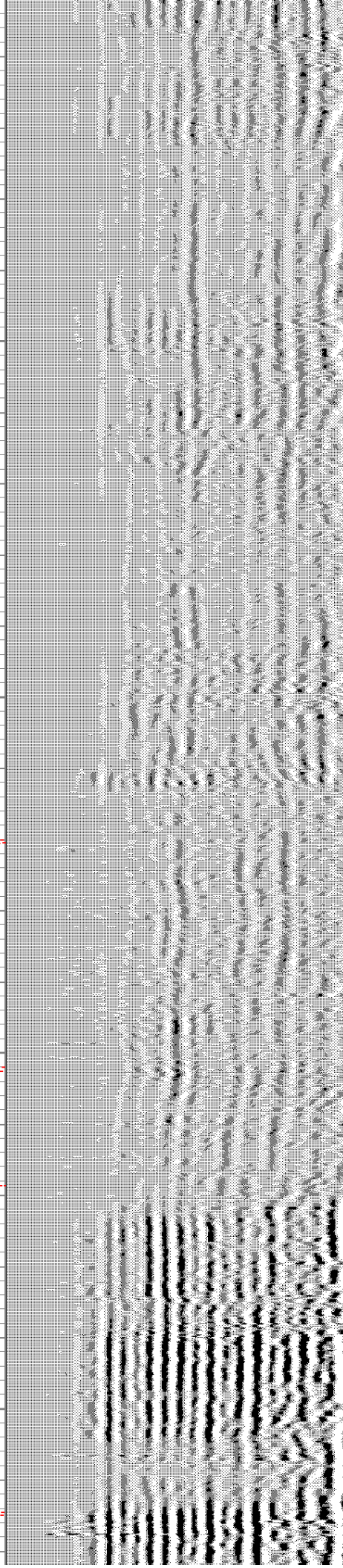
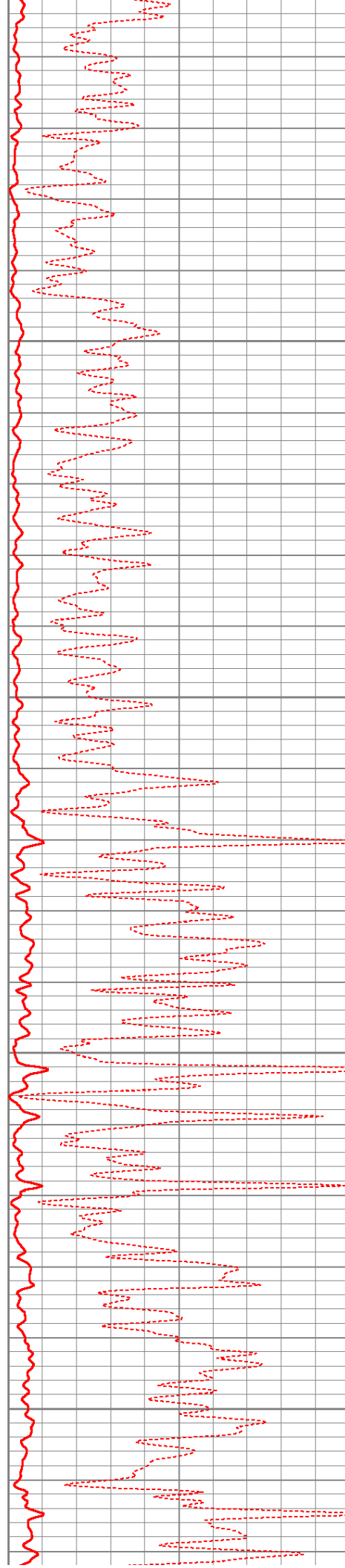


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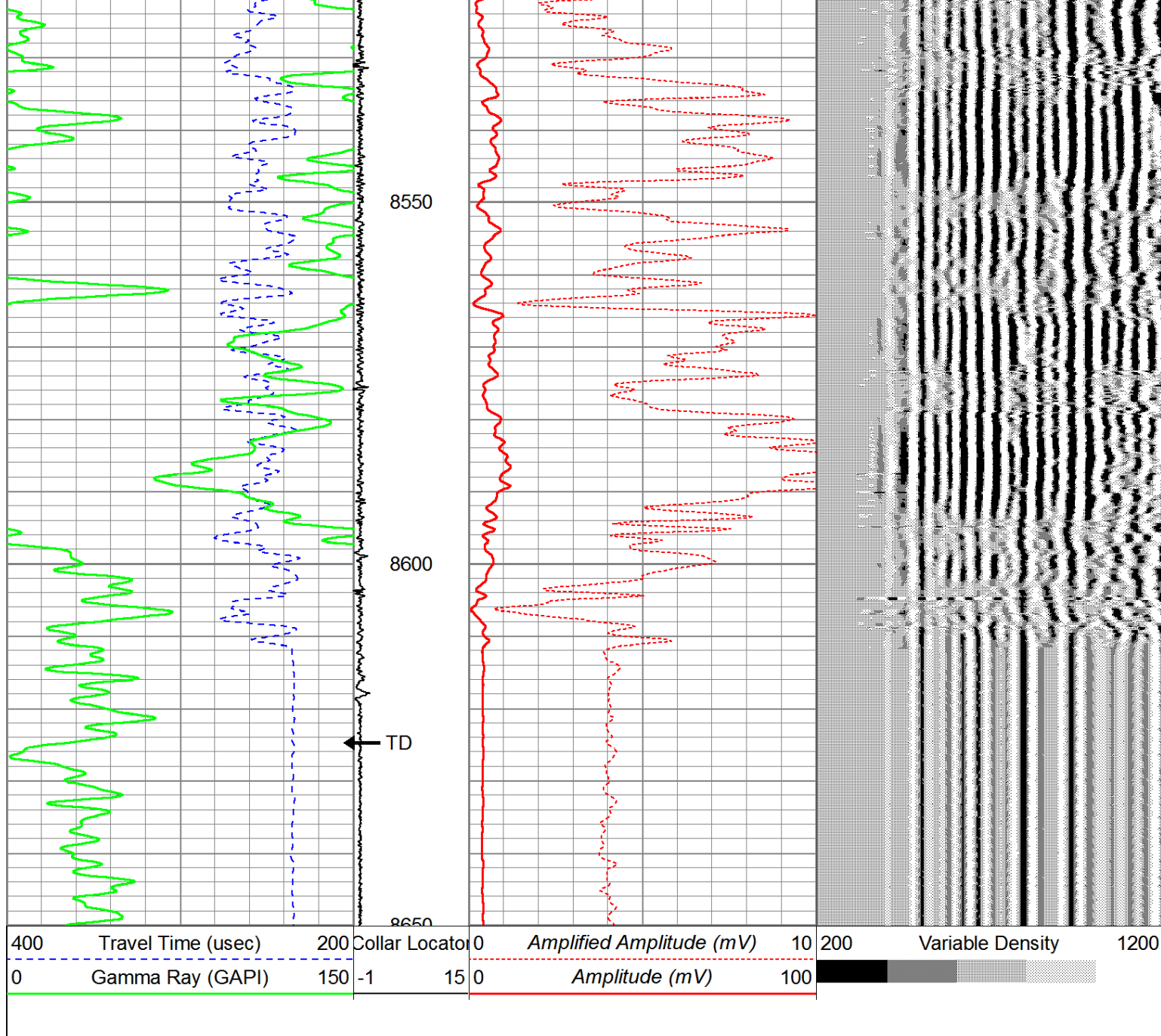
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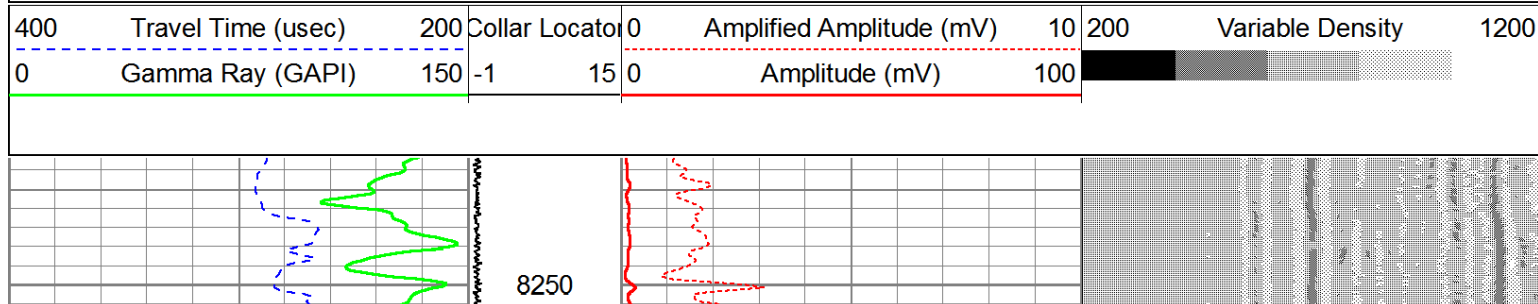


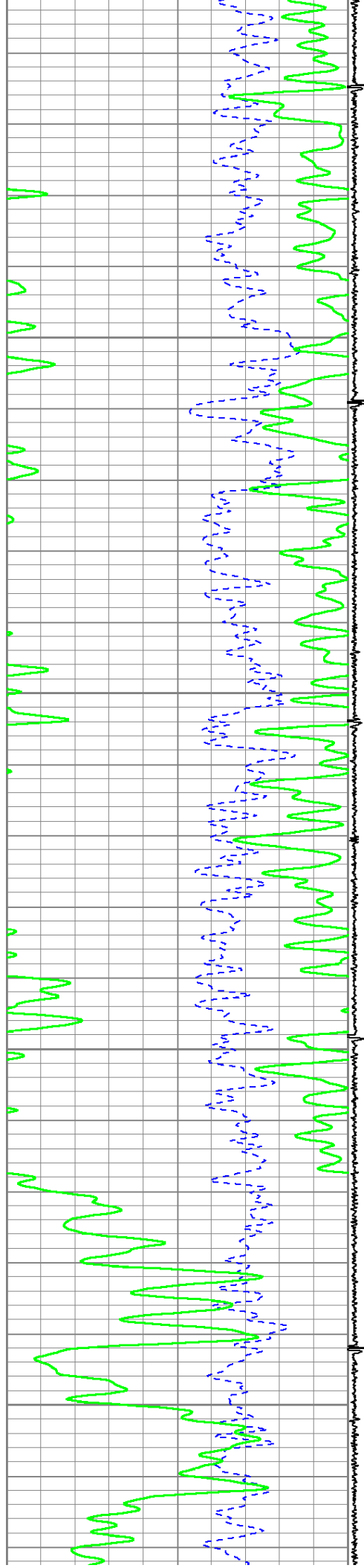




# REPEAT PASS

Database File: gw\_marcus\_id\_11-371hnx\_cbl\_5jan2018.db  
 Dataset Pathname: pass4  
 Presentation Format: cbl10-11  
 Dataset Creation: Fri Jan 05 12:35:13 2018 by Log Std Casedhole 10081  
 Charted by: Depth in Feet scaled 1:240



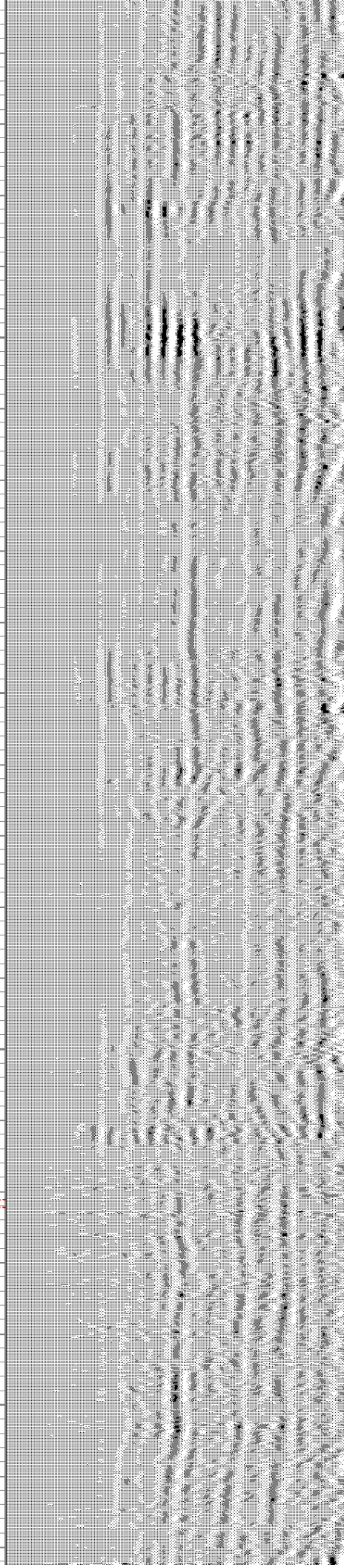
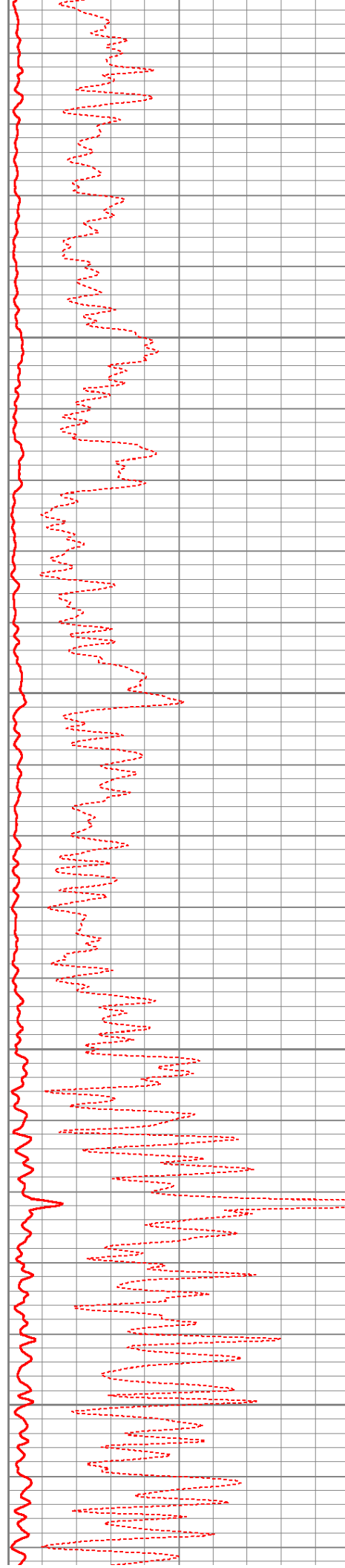


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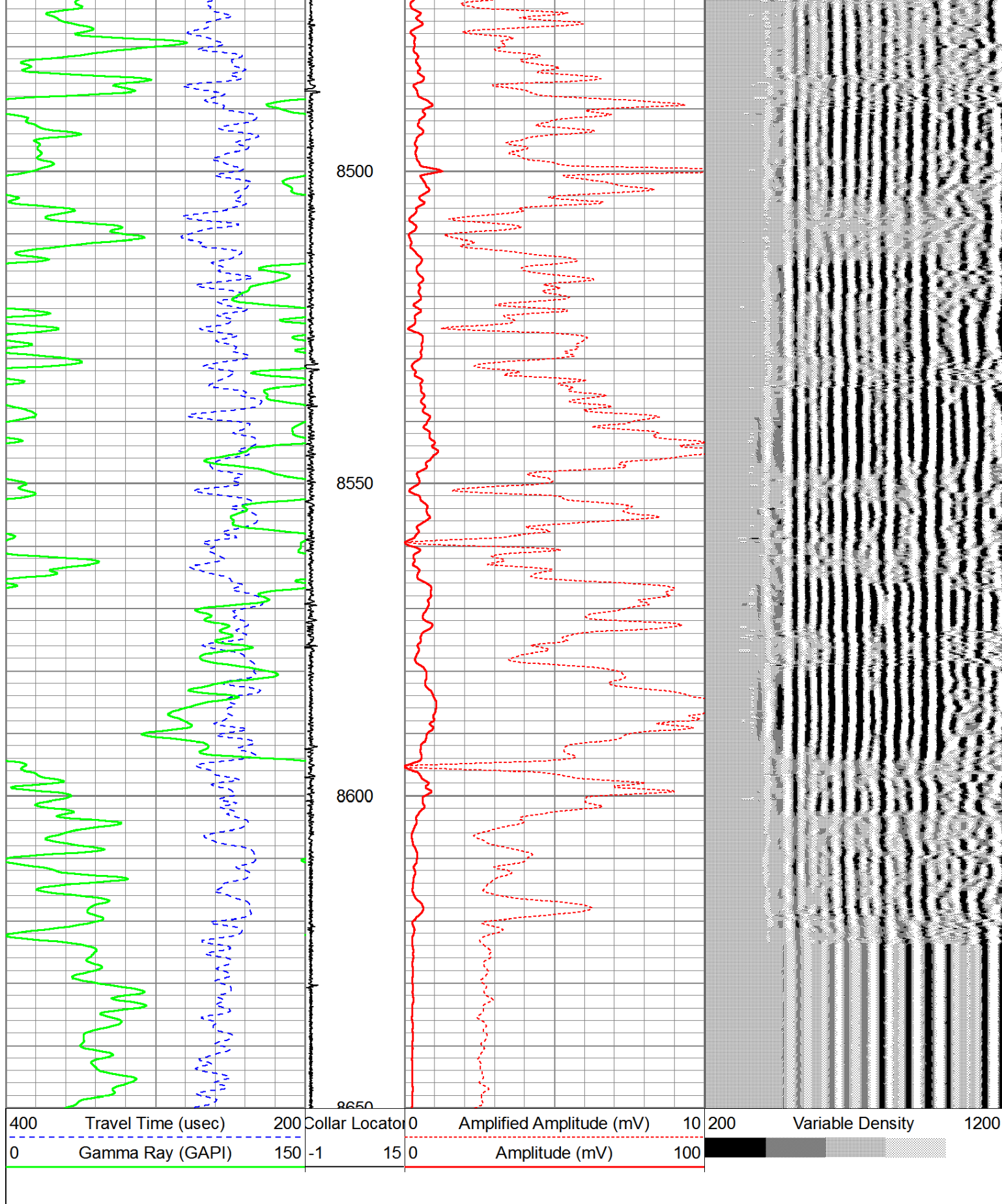
8350

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8450







### Calibration Report

Database File: gw\_marcus\_ld\_11-371hnx\_cbl\_5jan2018.db  
Dataset Pathname: pass7  
Dataset Creation: Fri Jan 05 12:46:41 2018 by Log Std Casedhole 10081


Serial Number:	080220	
Tool Model:	Probe	
Performed:	Sun Jun 13 14:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report					
Serial Number:	080839				
Tool Model:	Digital HT (Probe 275 CBL)				
Performed:	Sat Oct 28 12:33:01 2017				
Depth:	3592.99	ft			
Casing Diameter:	5.5	in			
	3' Spacing		5' Spacing		
Signal Zero:	1		1	mV	
Calibrated Amplitude:	71.921		71.921	mV	
Reading at Signal Zero:	0.00202637		-0.000561523	V	
Reading in Free Pipe:	0.978564		0.959766	V	
Gain:	72.6249		73.8509		
Offset:	0.852835		1.04147		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			1.4375 Titan 1 7/16 Cablehead	1.50	1.44	2.00
			PTS275	2.83	2.75	
			CBL-Digital HT (Probe 275 CBL) (08083911.28 Probe 275 CBL HT		2.75	130.00
WVF3	14.50					
WVF5	13.50					



			PTS275	2.83	2.75	
CCL	6.47					
			GR-Probe (080220) Probe 2.75" 4 Channel Pulse	4.58	2.75	30.00
GR	3.73					
			PTS275	2.83	2.75	
Dataset: gw_marcus_ld_11-371hnx_cbl_5jan2018.db: field/well/run1/pass7 Total Length: 25.87 ft Total Weight: 162.00 lb O.D. 2.75 in						

	Company	GREAT WESTERN OIL AND GAS COMPANY				
	Well	MARCUS LD 11-371HNX				
	Field					
	County	WELD				
	State	COLORADO			Country	USA