



CEMENT BOND LOG W/
VARIABLE DENSITY,
GAMMA RAY, CCL, TEMP

Company GREAT WESTERN OIL & GAS
Well B-FARMS LD 18-392HC
Field WATTENBERG
County ADAMS State COLO

Location: API # : 05-001-10094
LAT: 39.983706
LONG:-104.933671
NENW
SEC 7 TWP 1S RGE 67W
Permanent Datum GL Elevation 5124.5
Log Measured From KB 20'
Drilling Measured From KB
Other Services
NONE
Elevation
K.B. 5144.5
D.F.
G.L. 5124.5

Company GREAT WESTERN OIL & GAS
Well B-FARMS LD 18-392HC
Field WATTENBERG
County ADAMS
State COLO

Date

MAR-25-2019

Run Number	TWO
Depth Driller	18619'
Depth Logger	8510'
Bottom Logged Interval	8510'
Top Log Interval	SURFACE
Open Hole Size	8.5
Type Fluid	WATER
Density / Viscosity	8.34 PPG
Max. Recorded Temp.	275
Estimated Cement Top	SEE LOG
Time Well Ready	ROA
Time Logger on Bottom	4:30
Equipment Number	34
Location	PLATTEVILLE, CO
Recorded By	R.RODRIGUEZ
Witnessed By	DAVID POZAS

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Mgt/Ft	Top	Bottom
Surface String	9 5/8	36	SURFACE	1756
Prot. String				
Production String	5.5	17	SURFACE	18619
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.

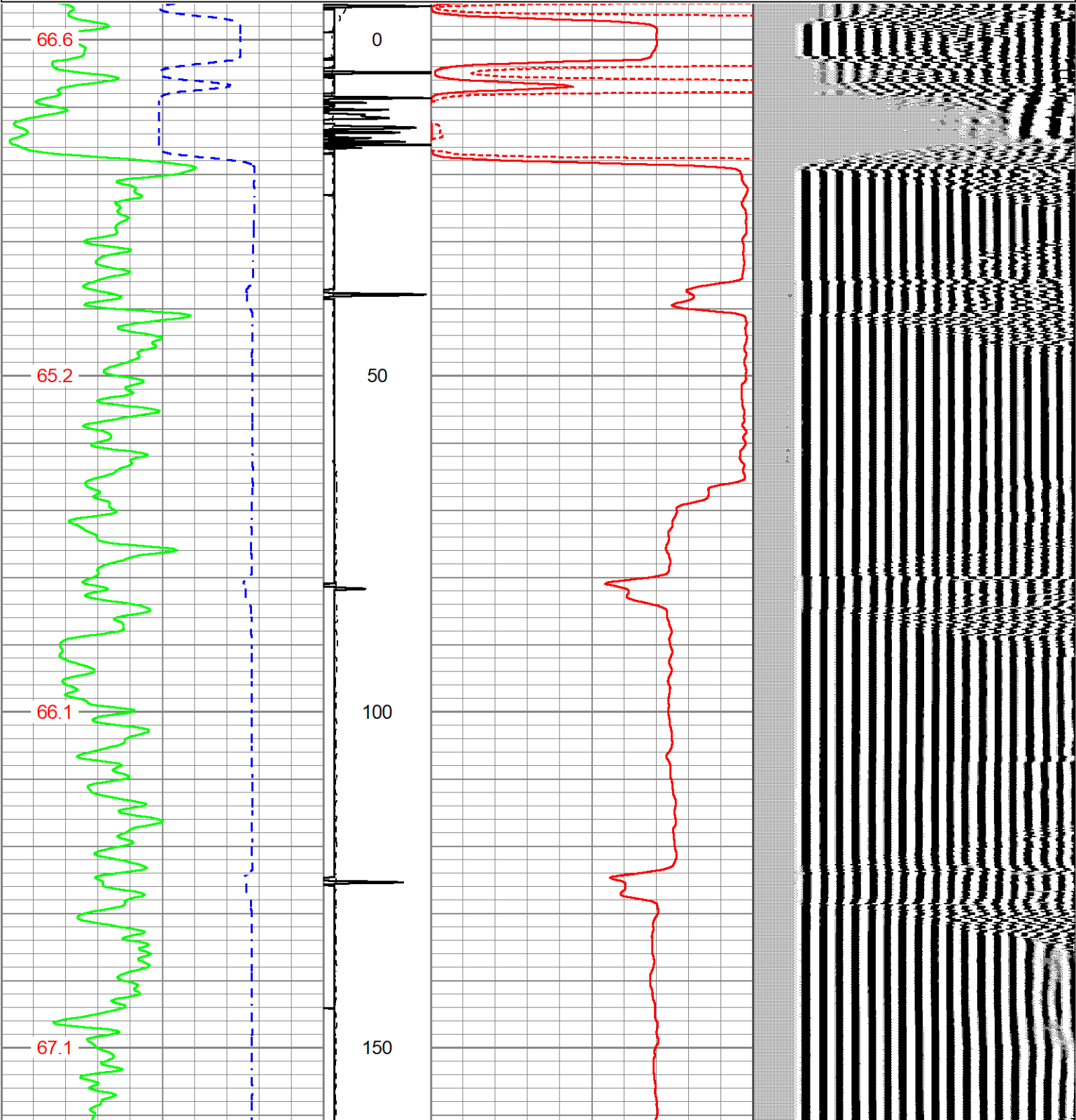
Comments

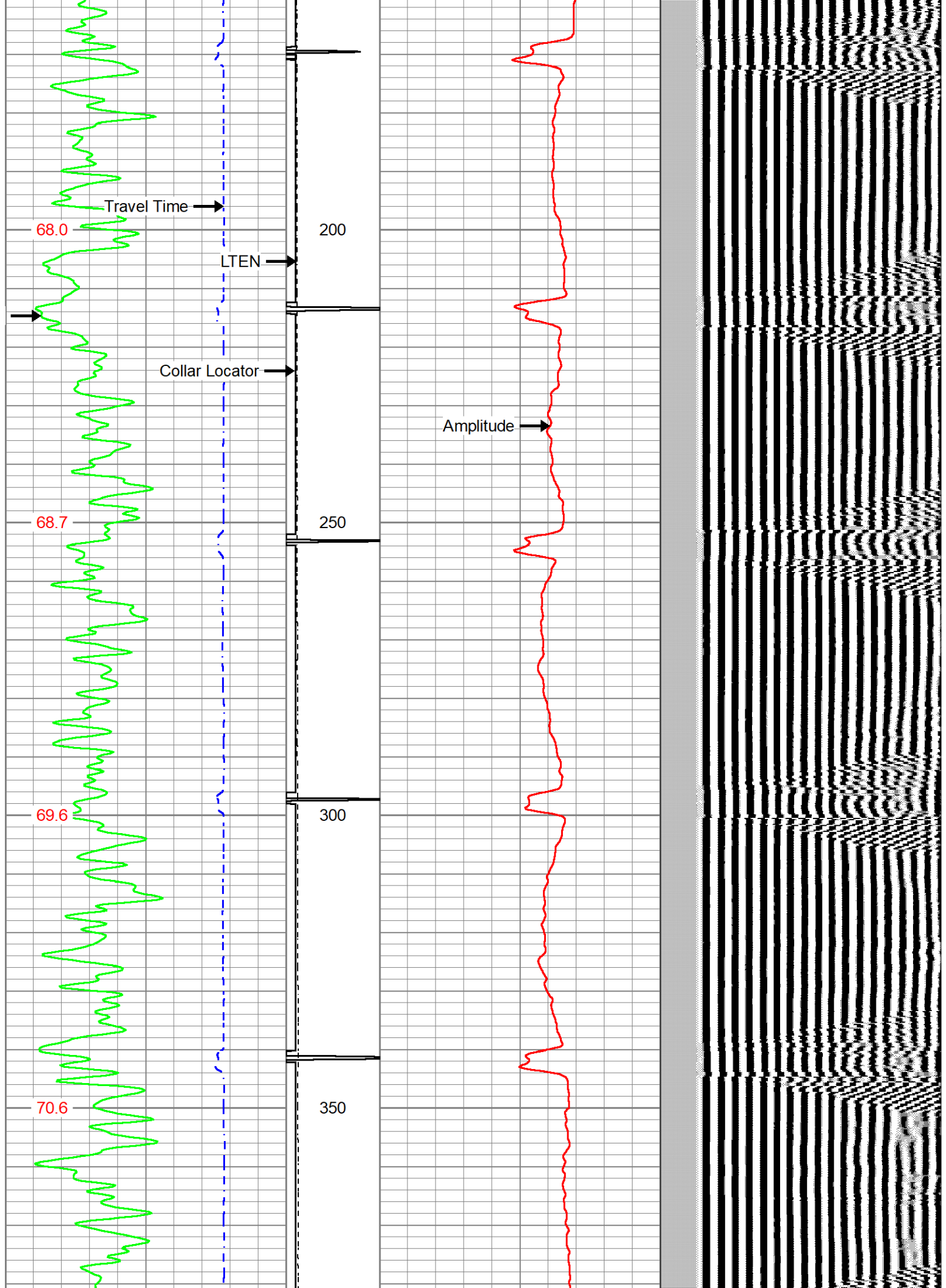
LOGGED UNDER 4000 INDUCED PSI
CORRELATED TO MARKER JOINT 7540-7550
RAN TOOL WITH 3 GIMCO CENTRALIZERS
THANK YOU FOR USING KLX ENERGY SERVICES

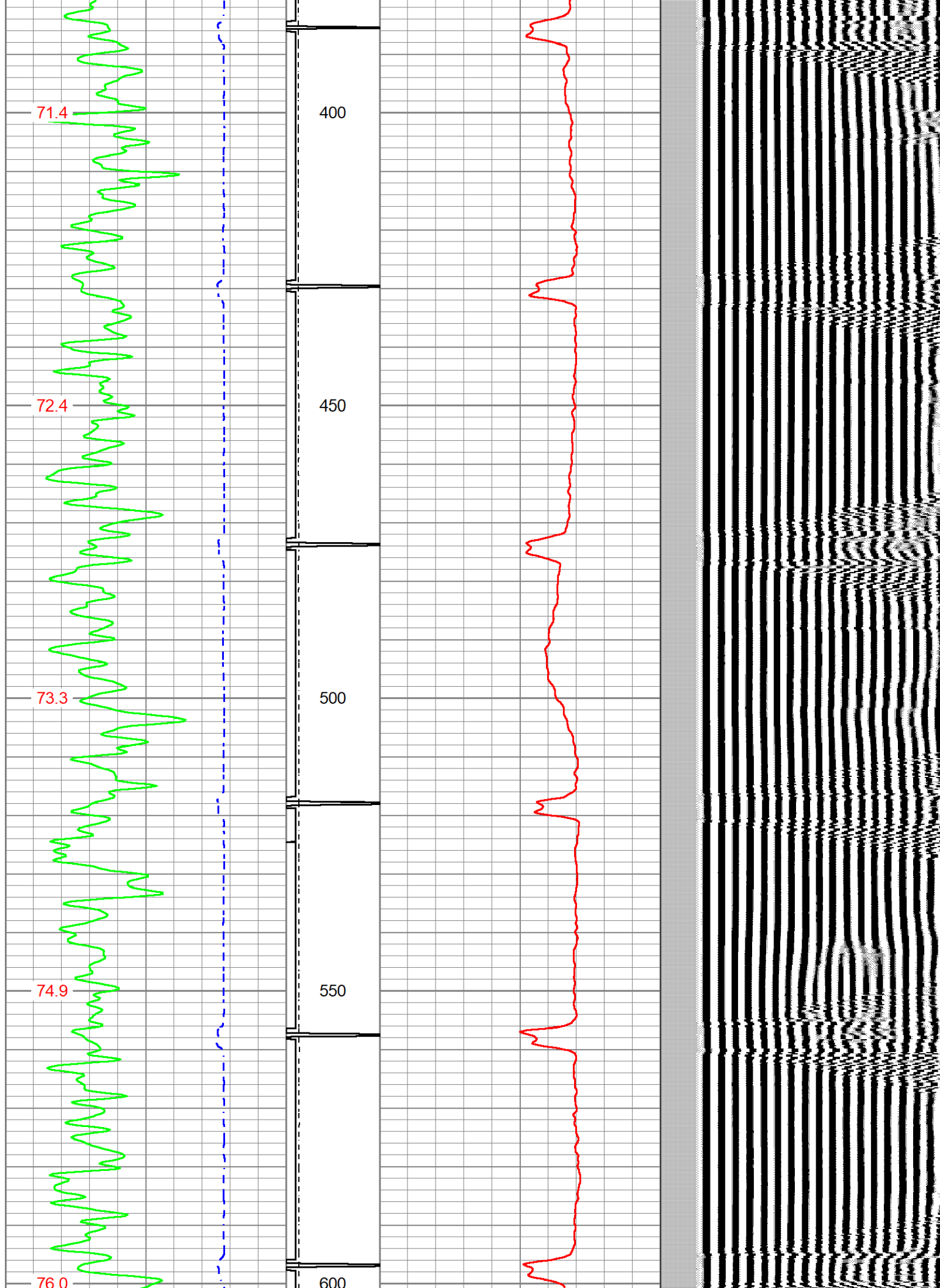


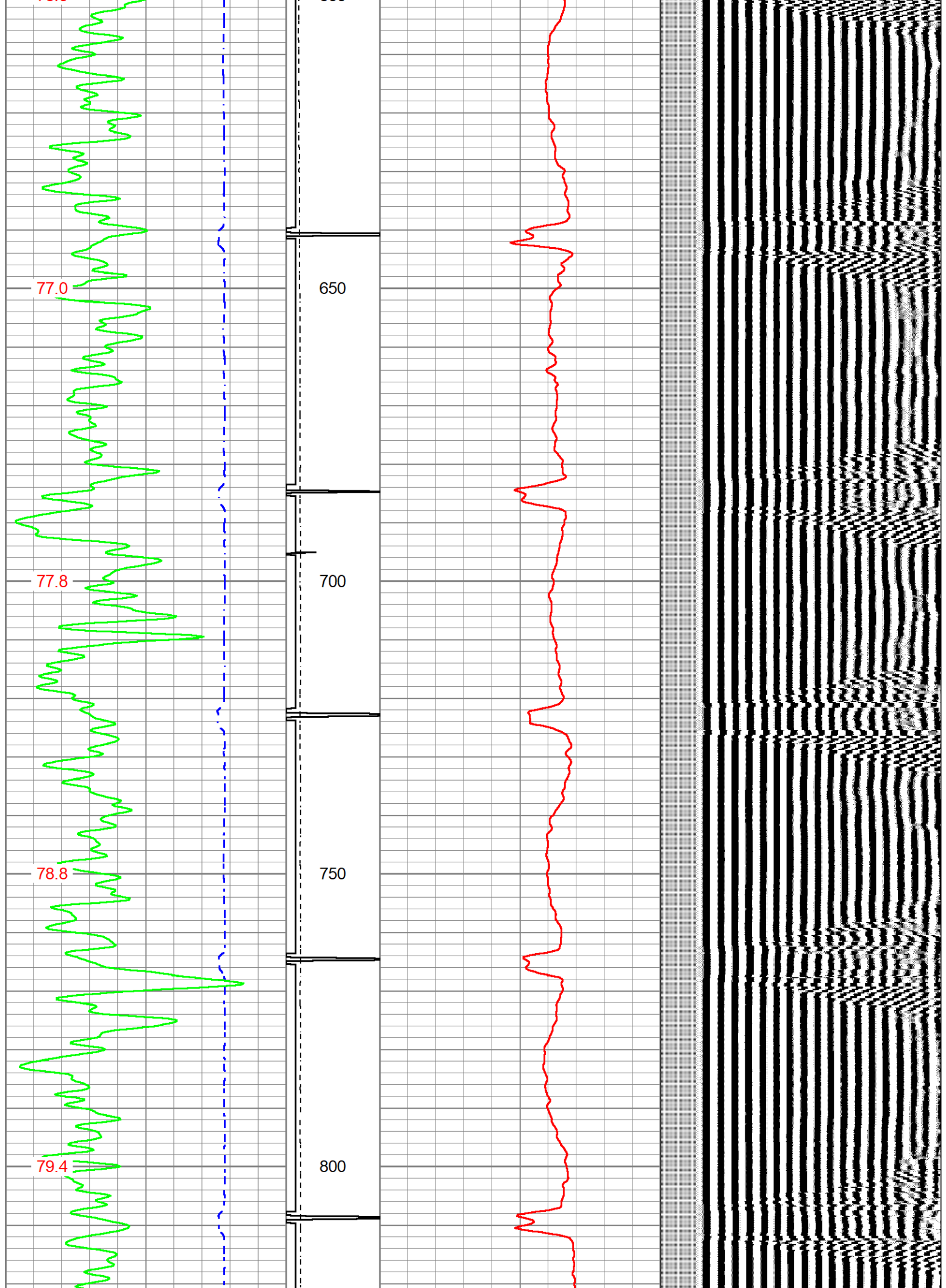
MAIN PASS 4000 PSI.

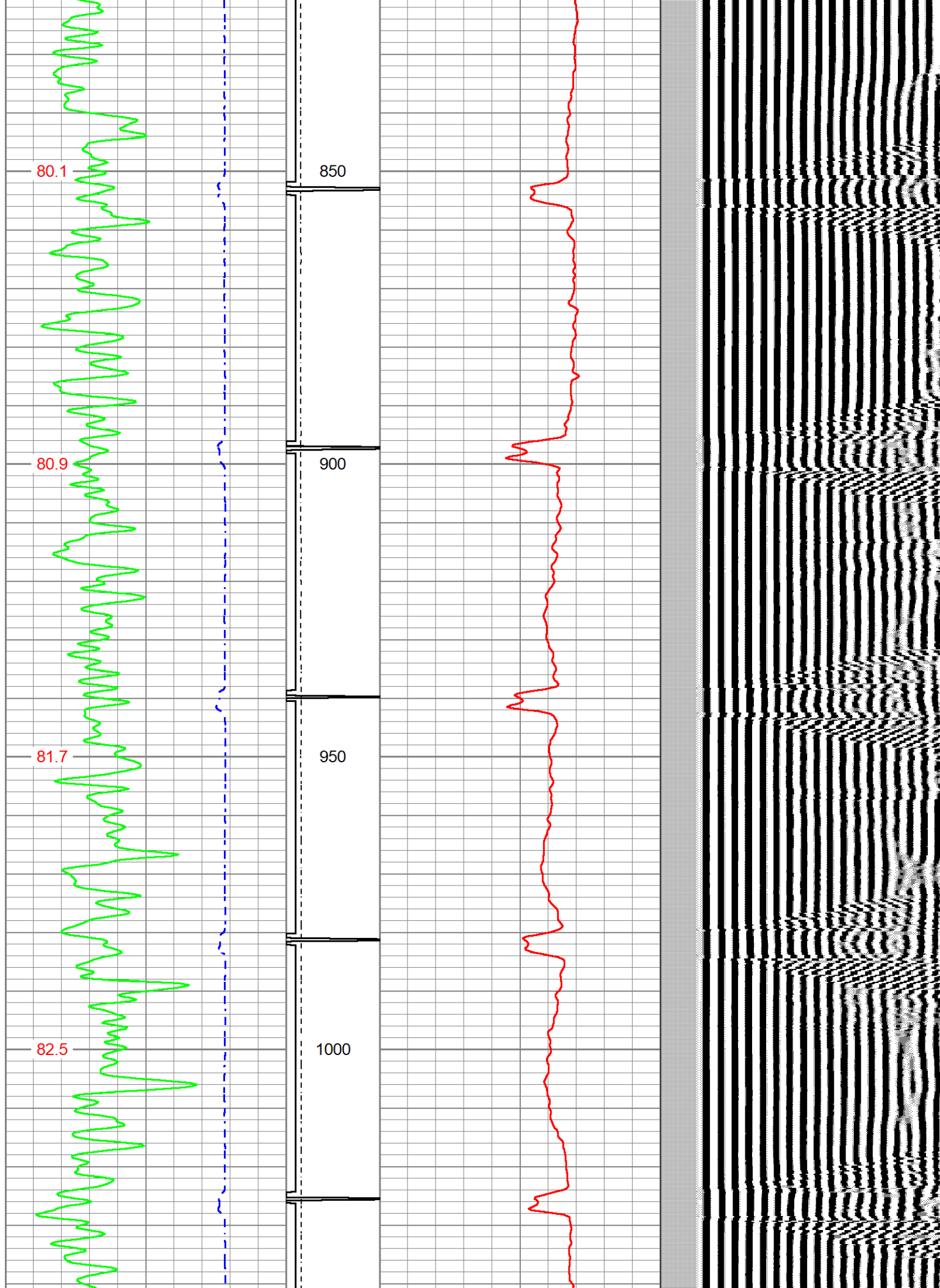
420	Travel Time (usec)	220	Collar Location	0	Amplified Amplitude (mV)	10	200	Variable Density (usec)	1200
0	Gamma Ray (GAPI)	150	-1 9	0	Amplitude (mV)	100			
Temp		Line Speed							
(degF)		(ft/min)							
		0 200							
		LTEN							
		0 (lb2000)							

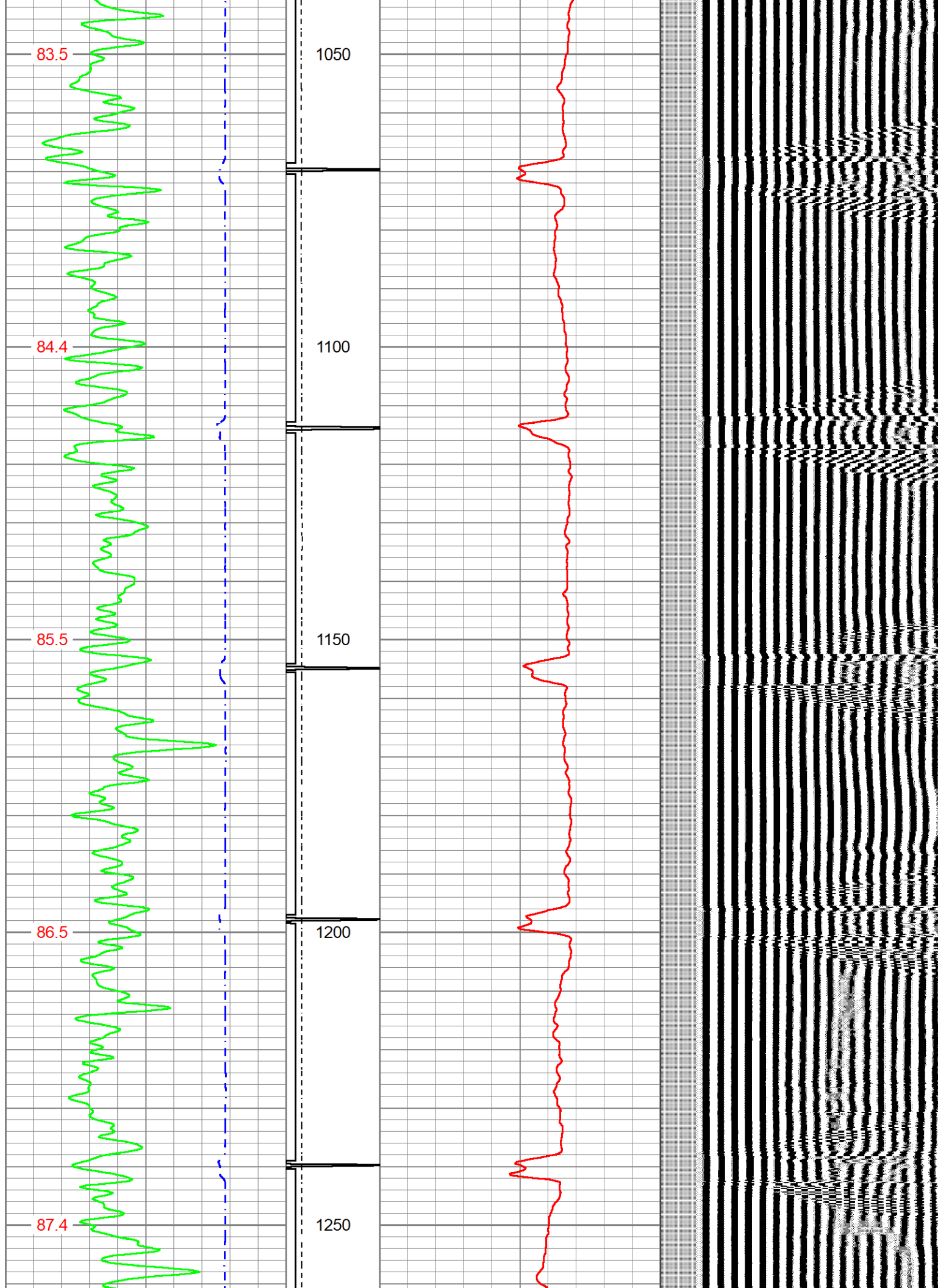


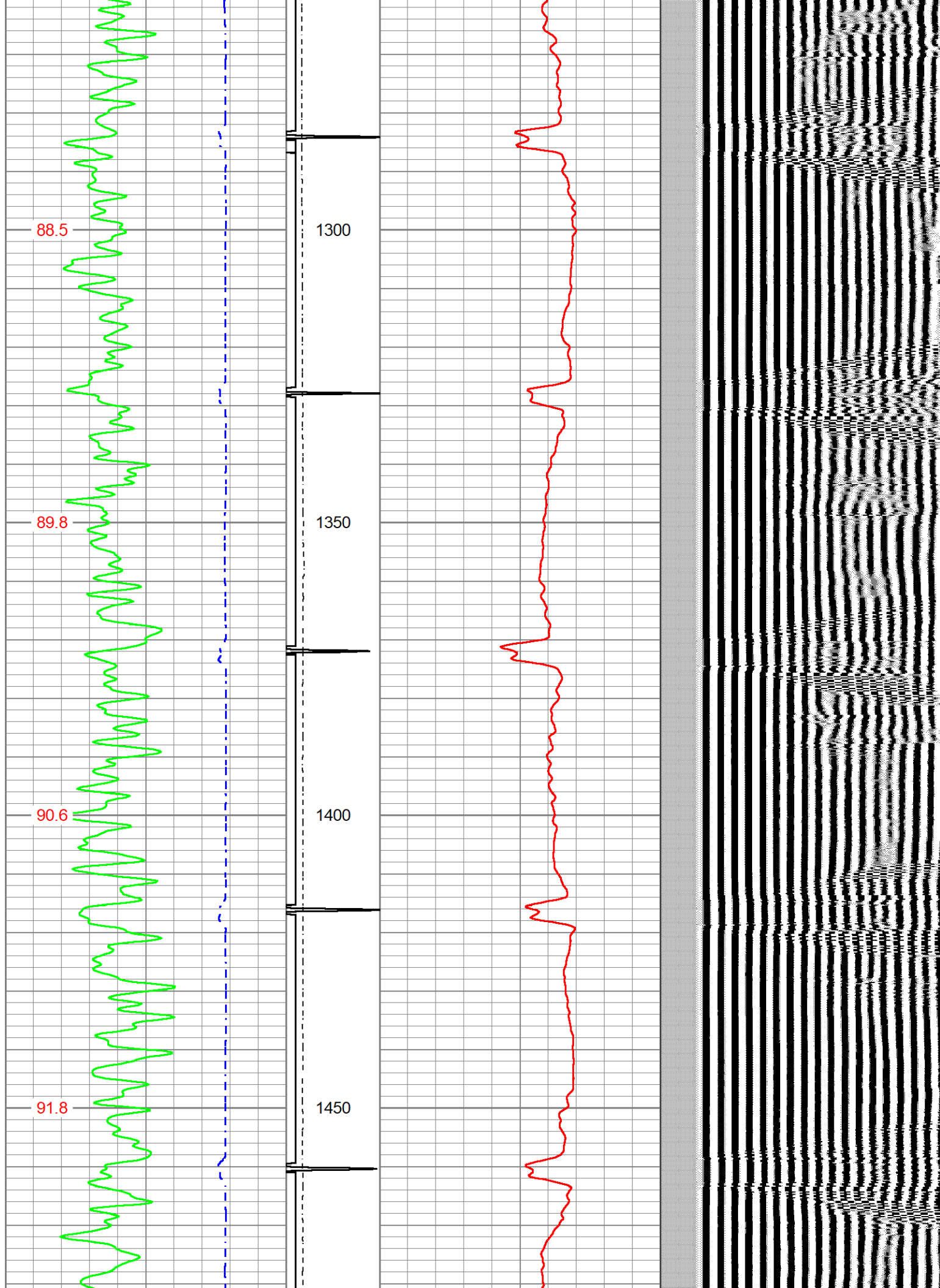


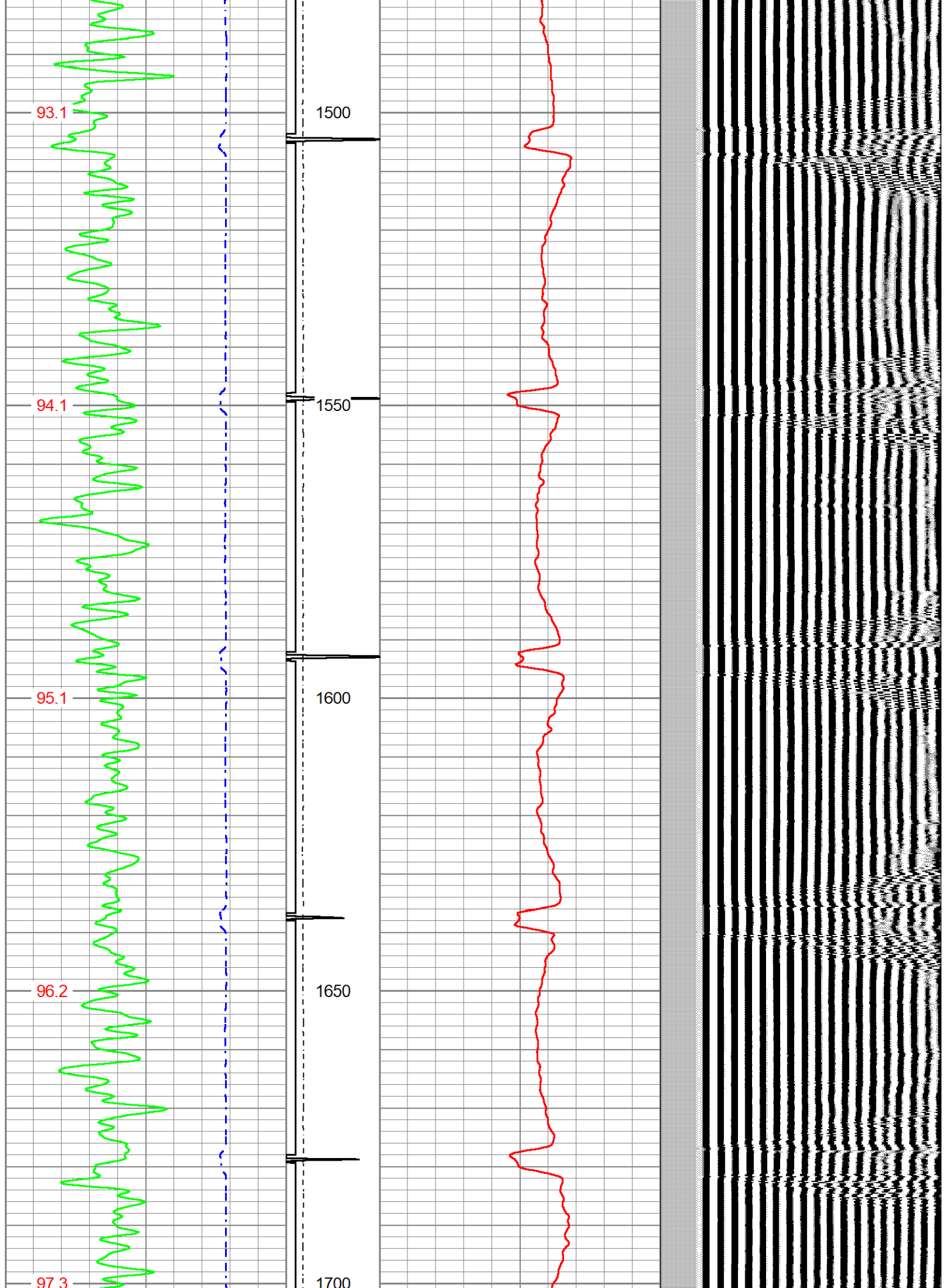


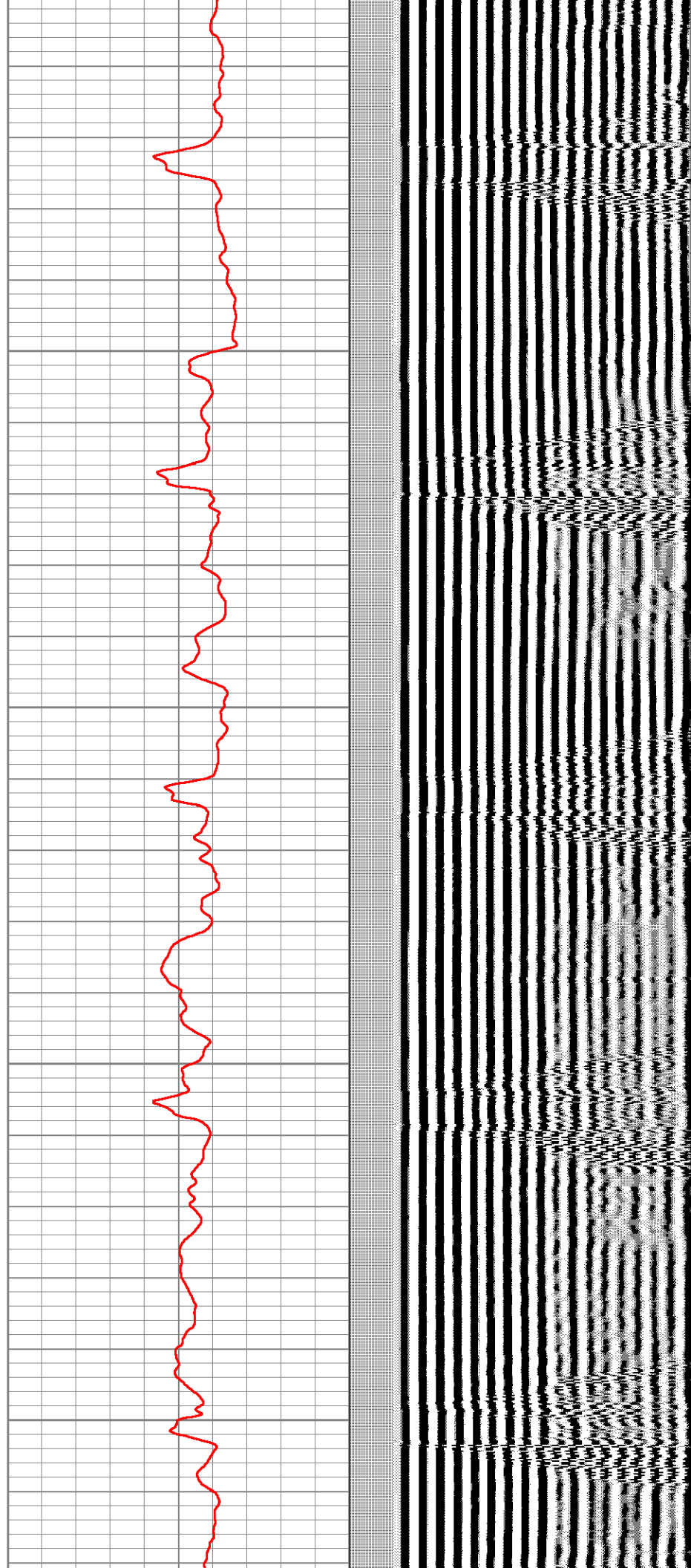
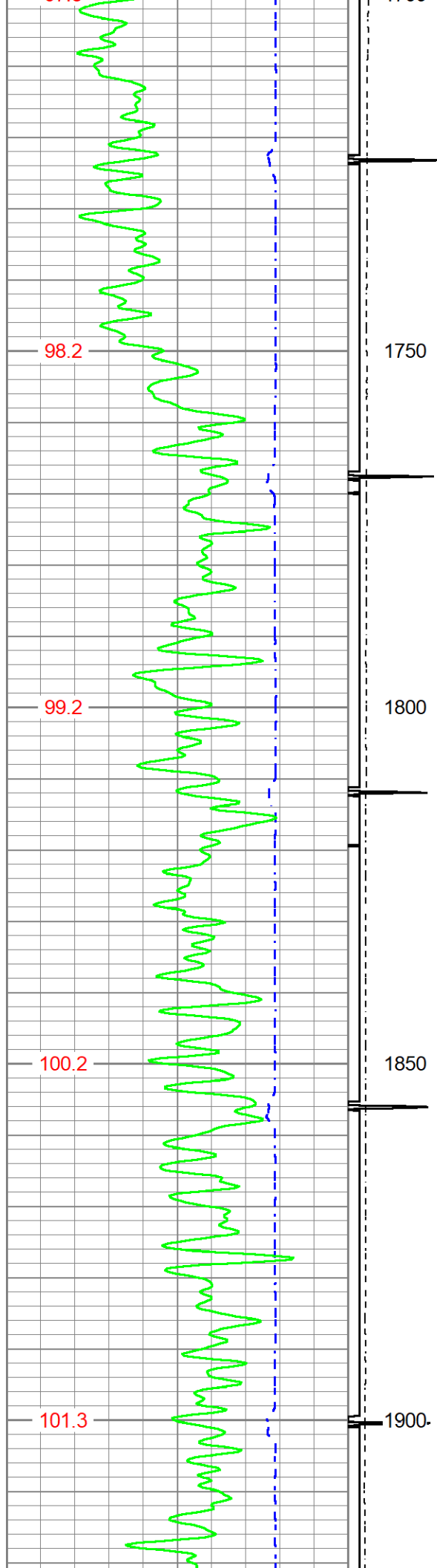


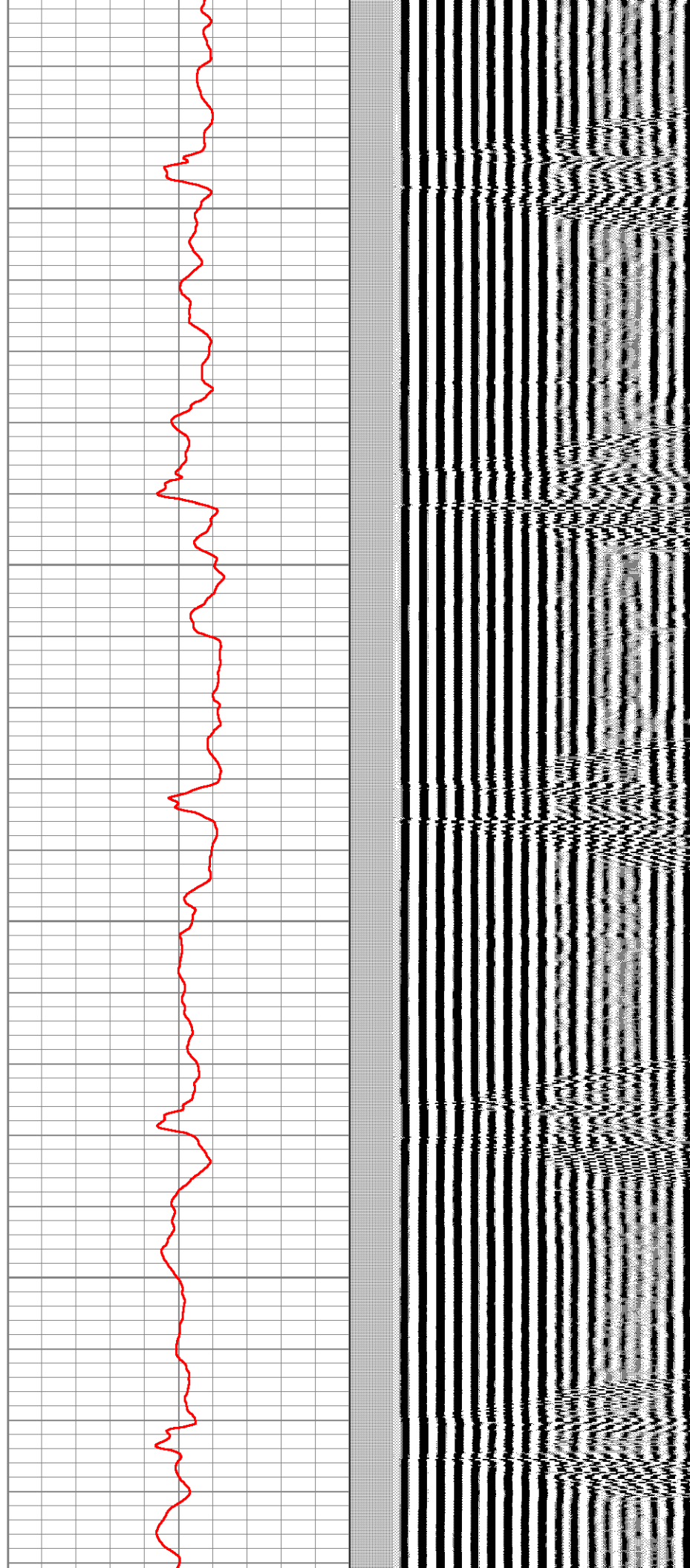
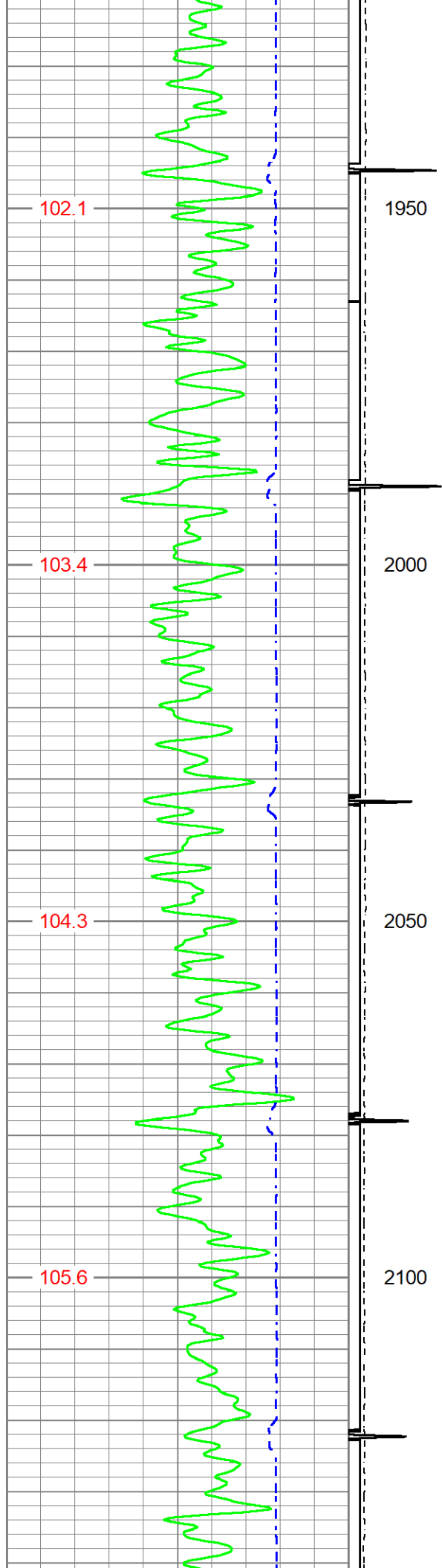


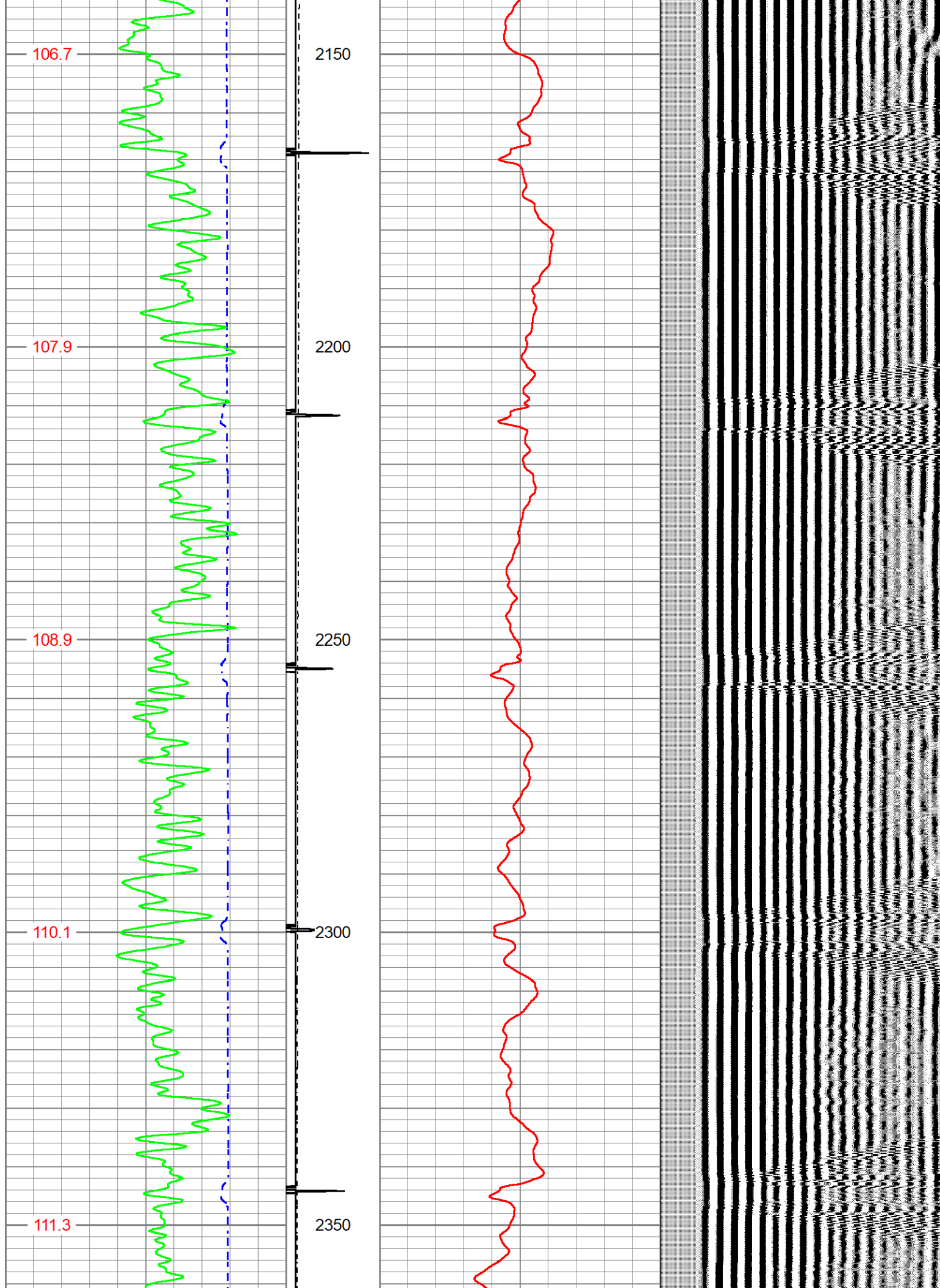


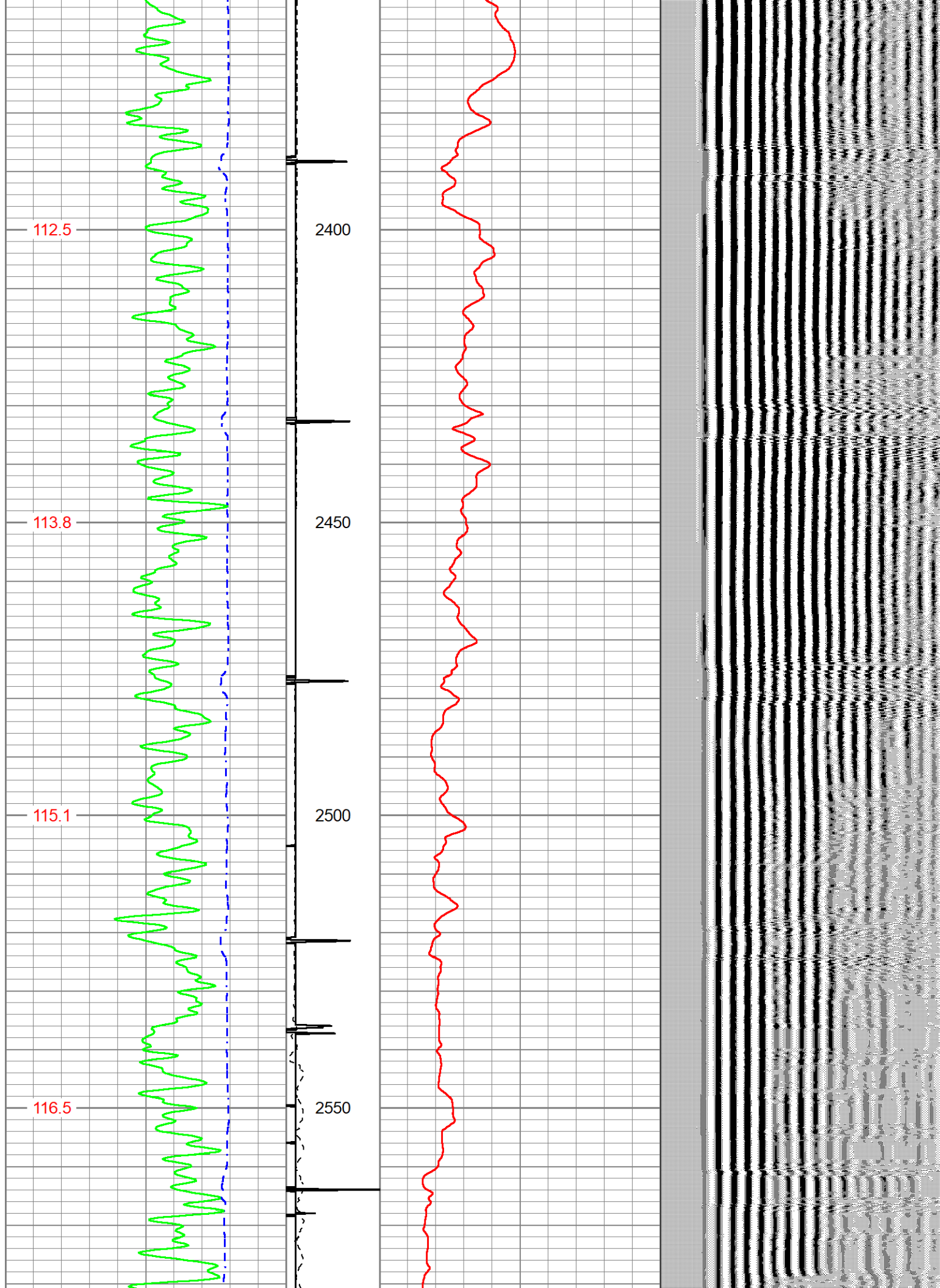


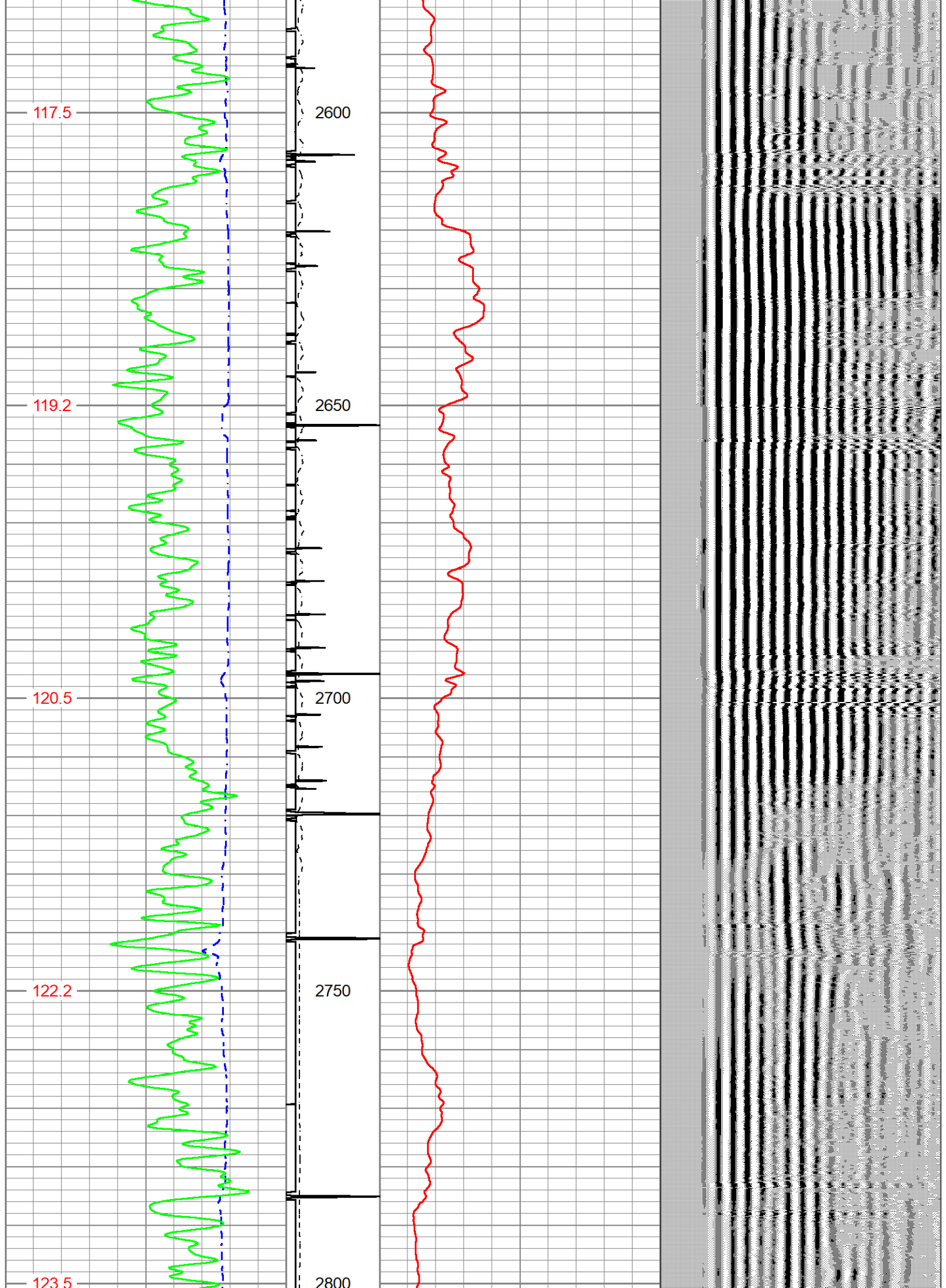


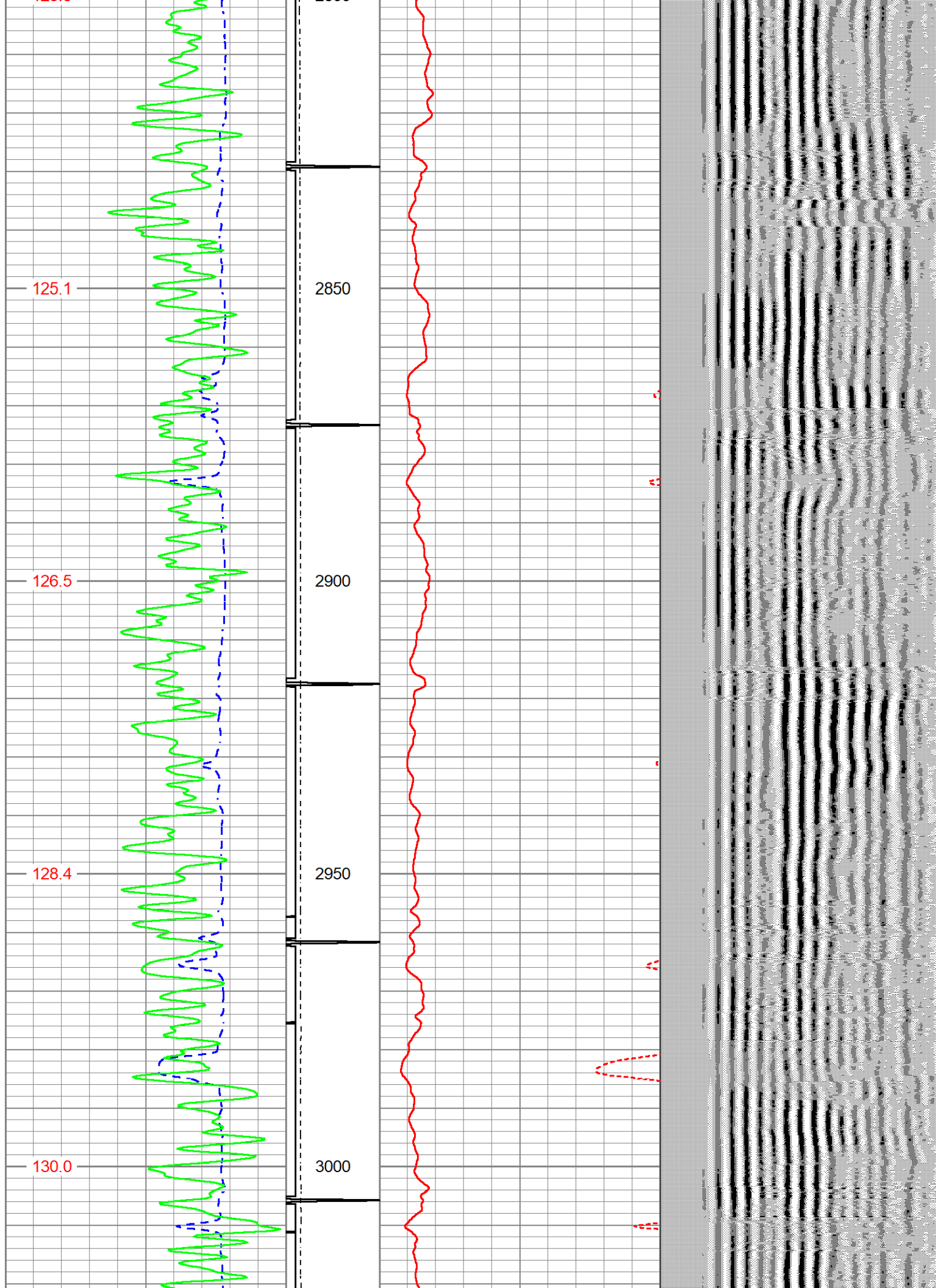


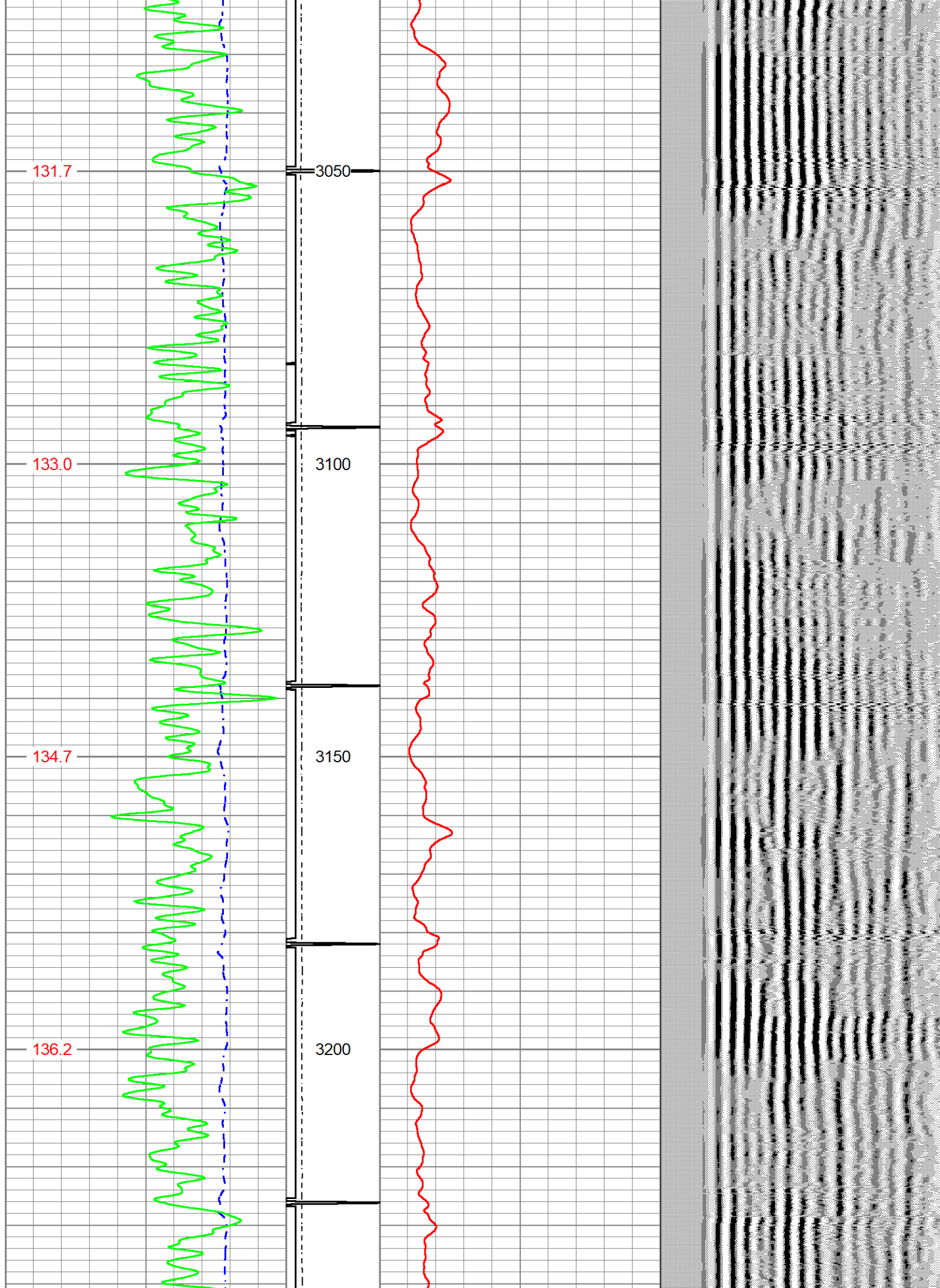


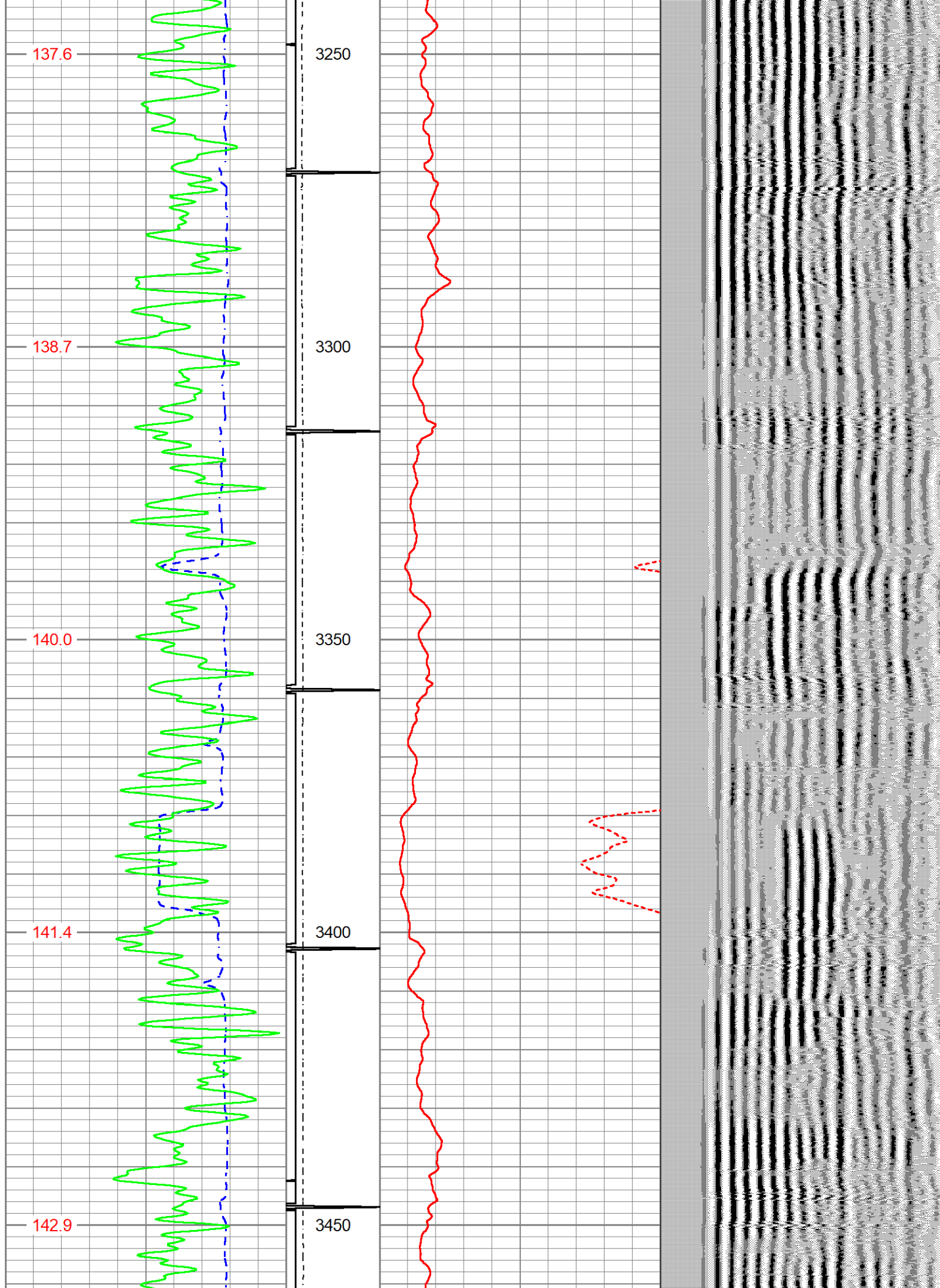


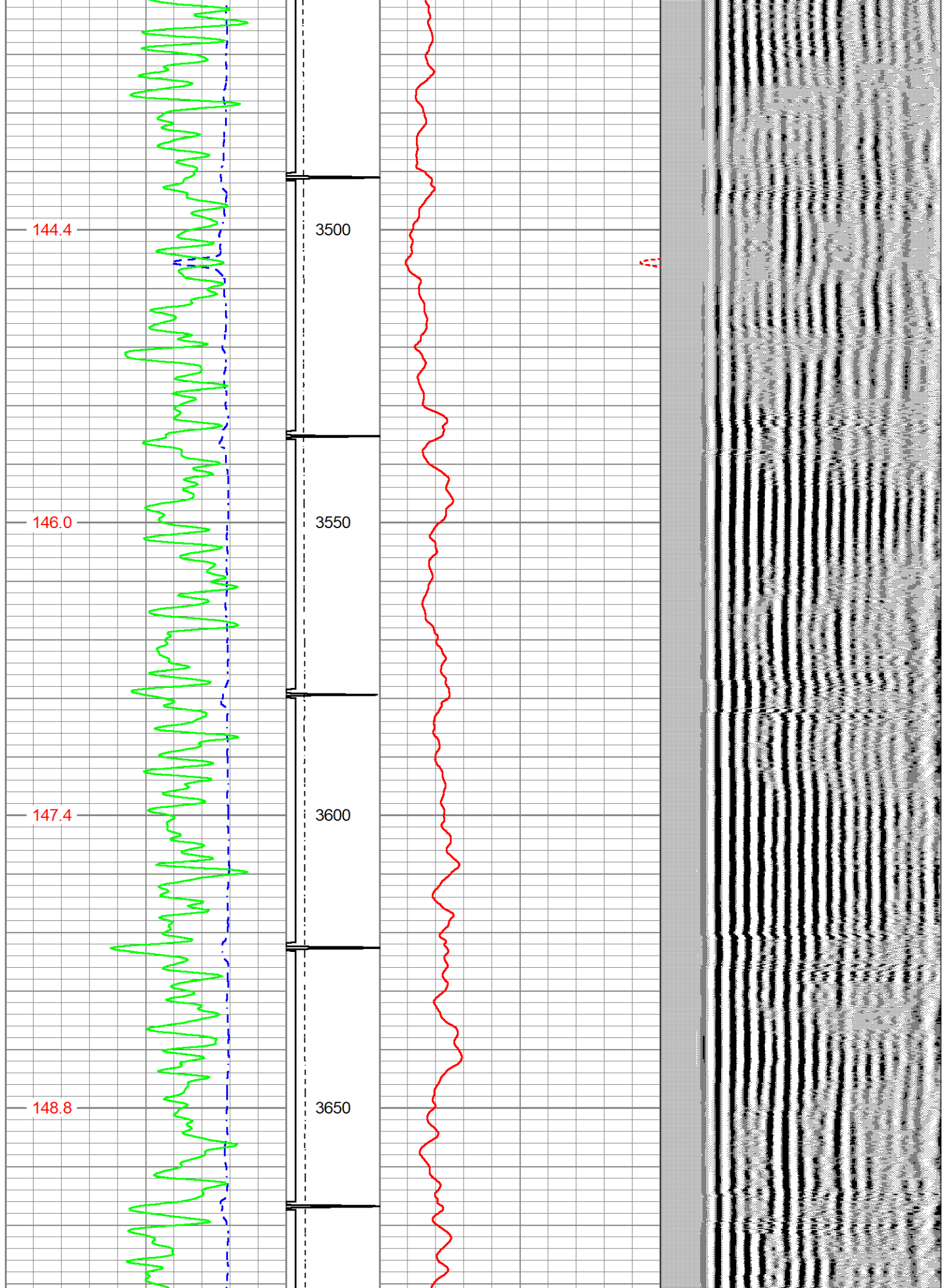


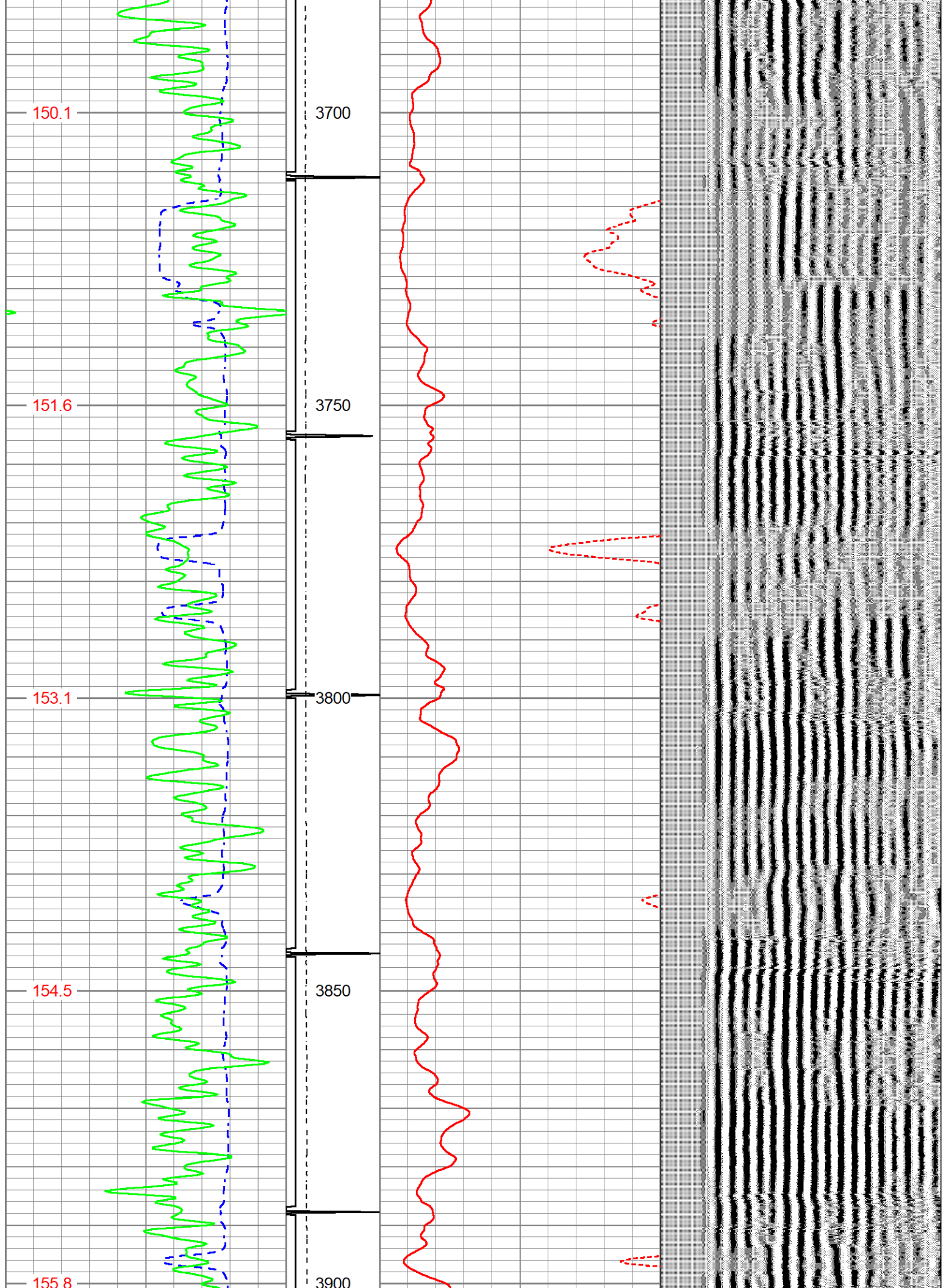


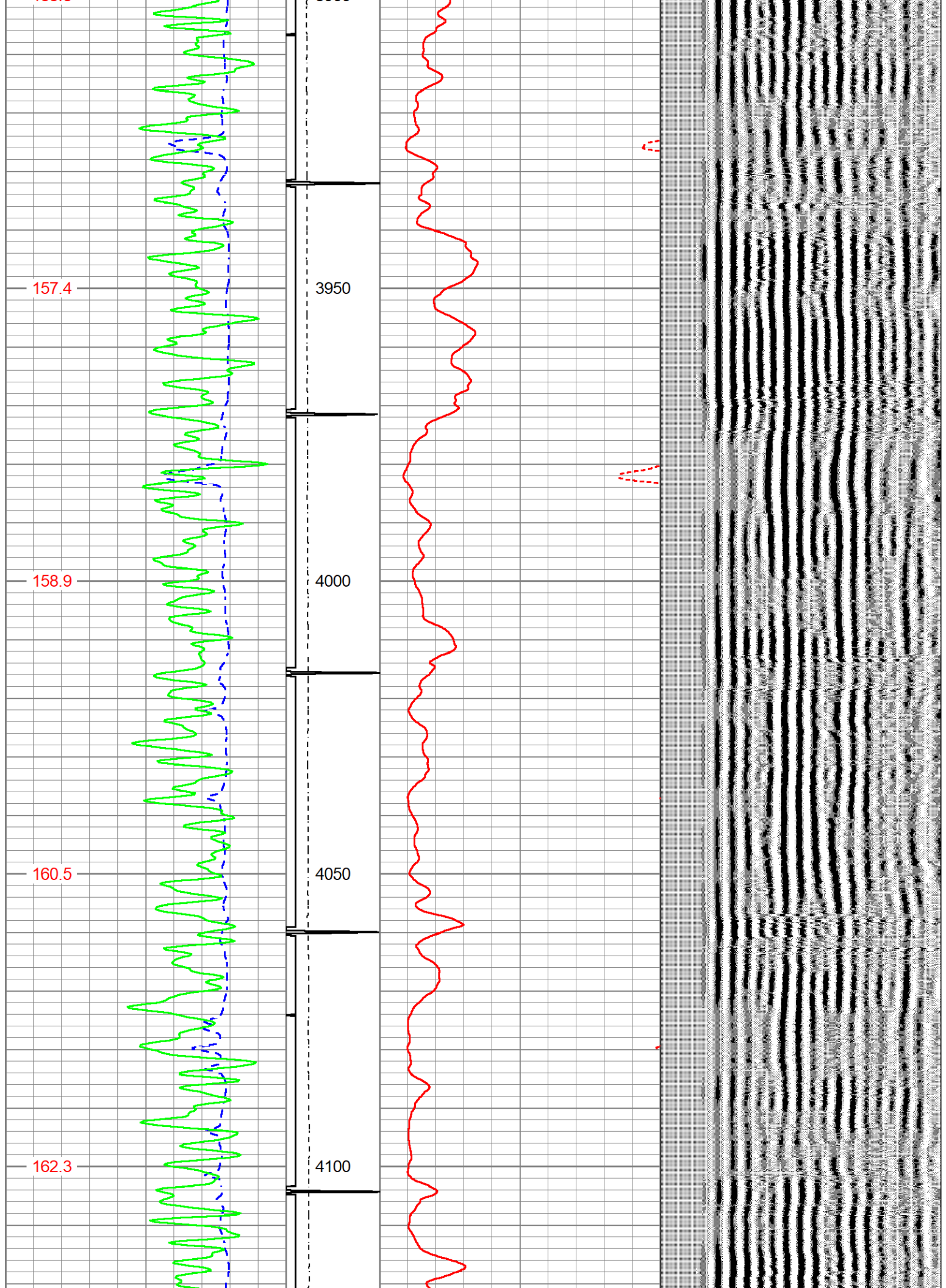


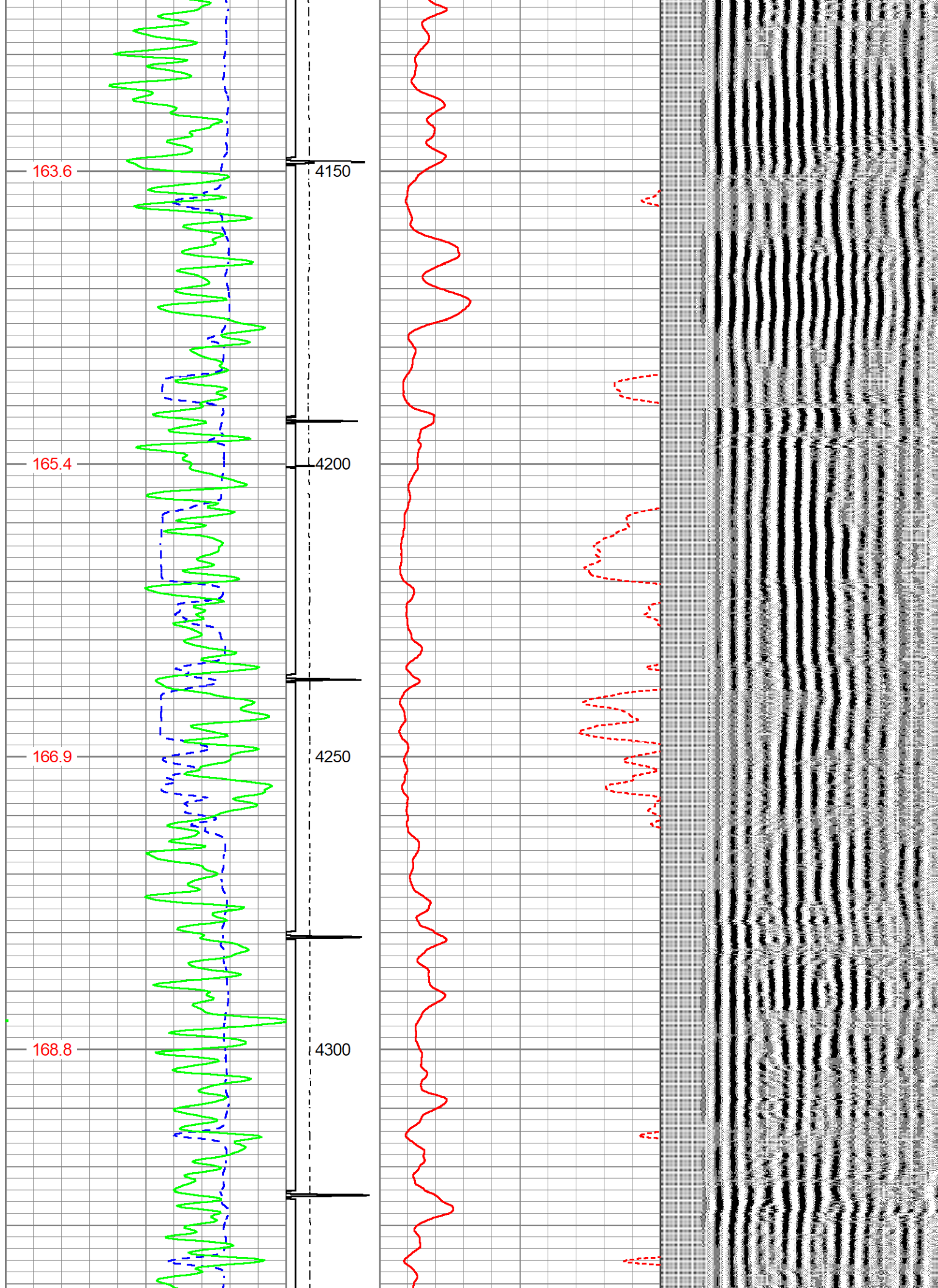


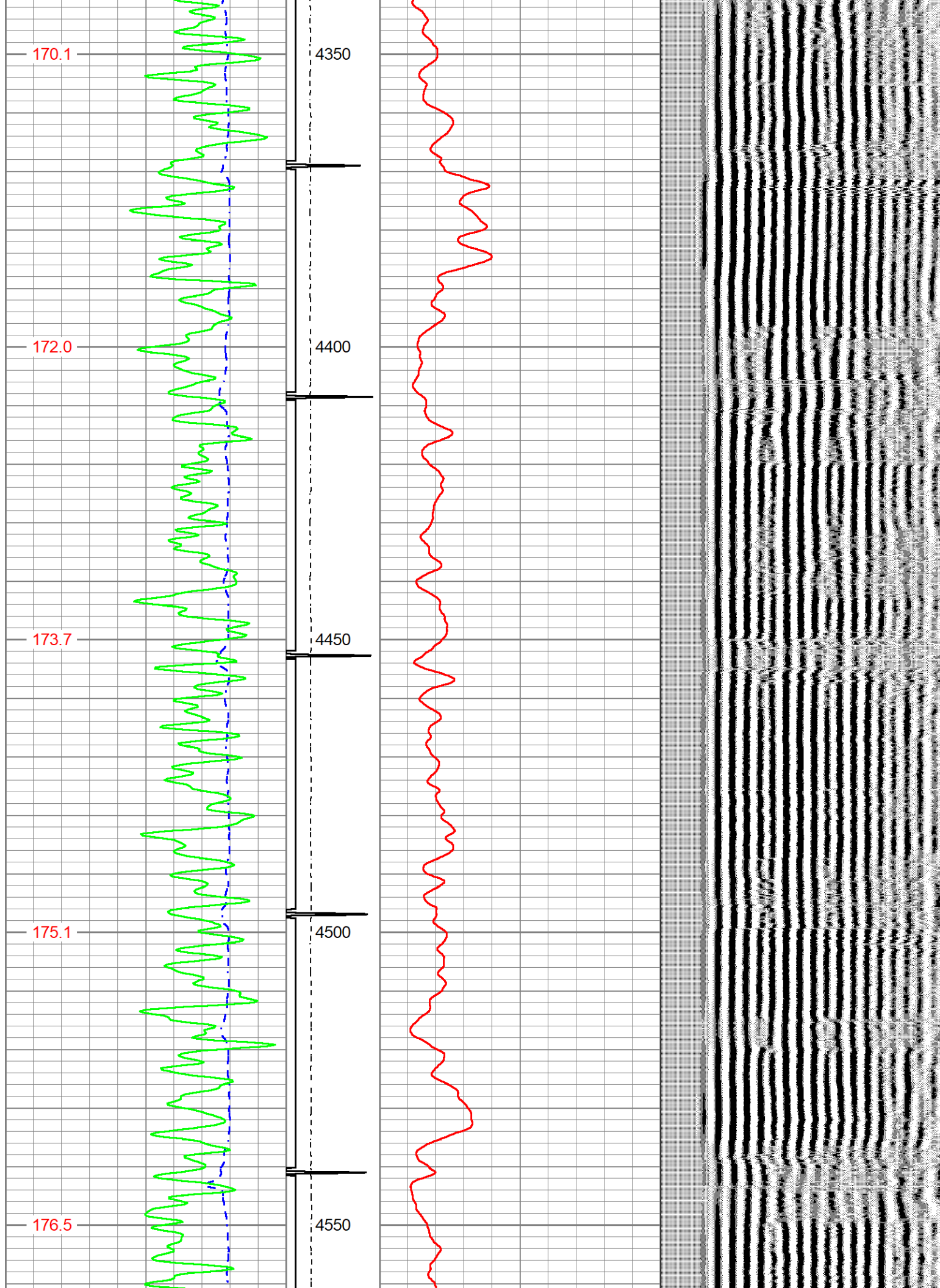


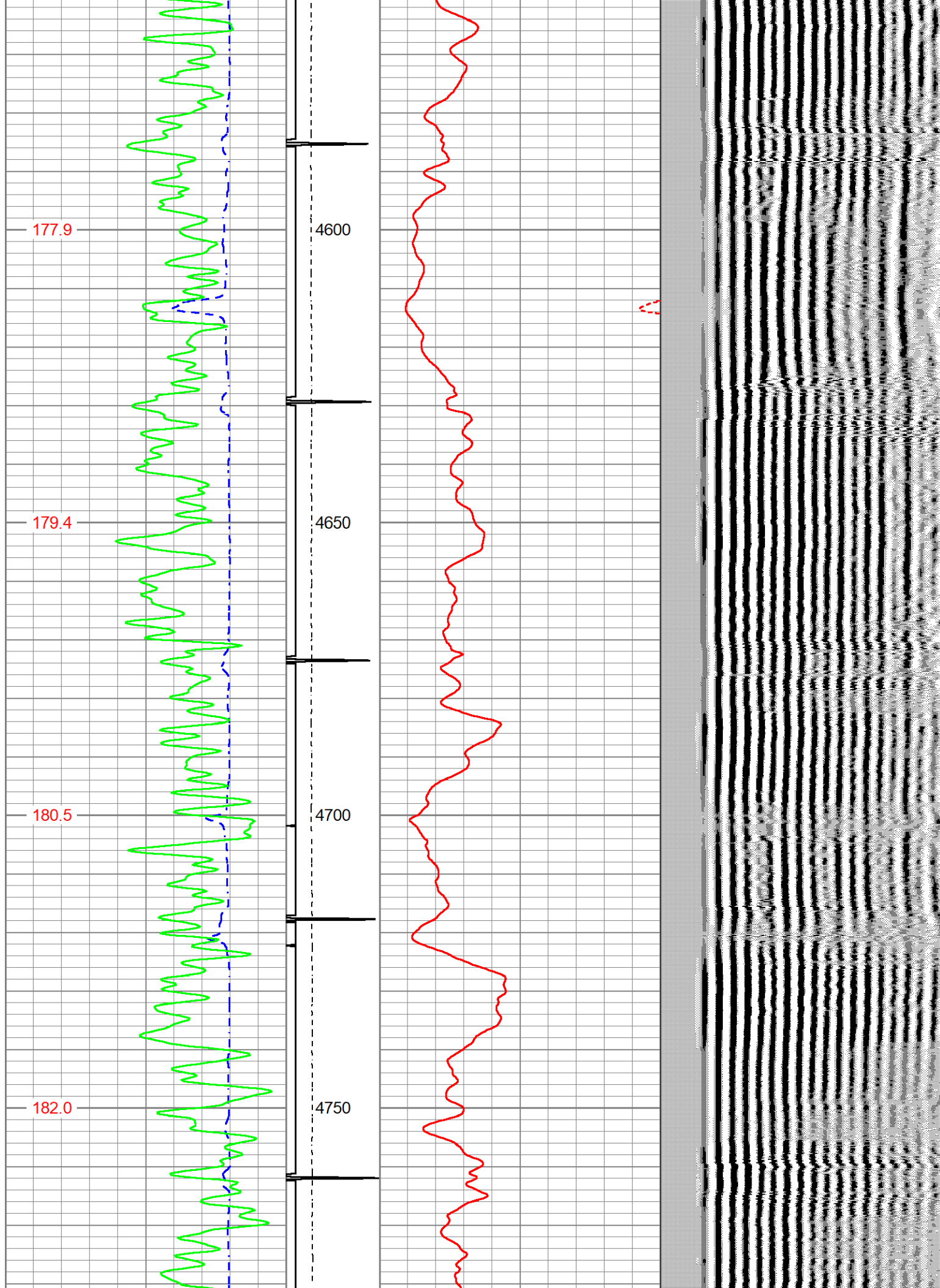


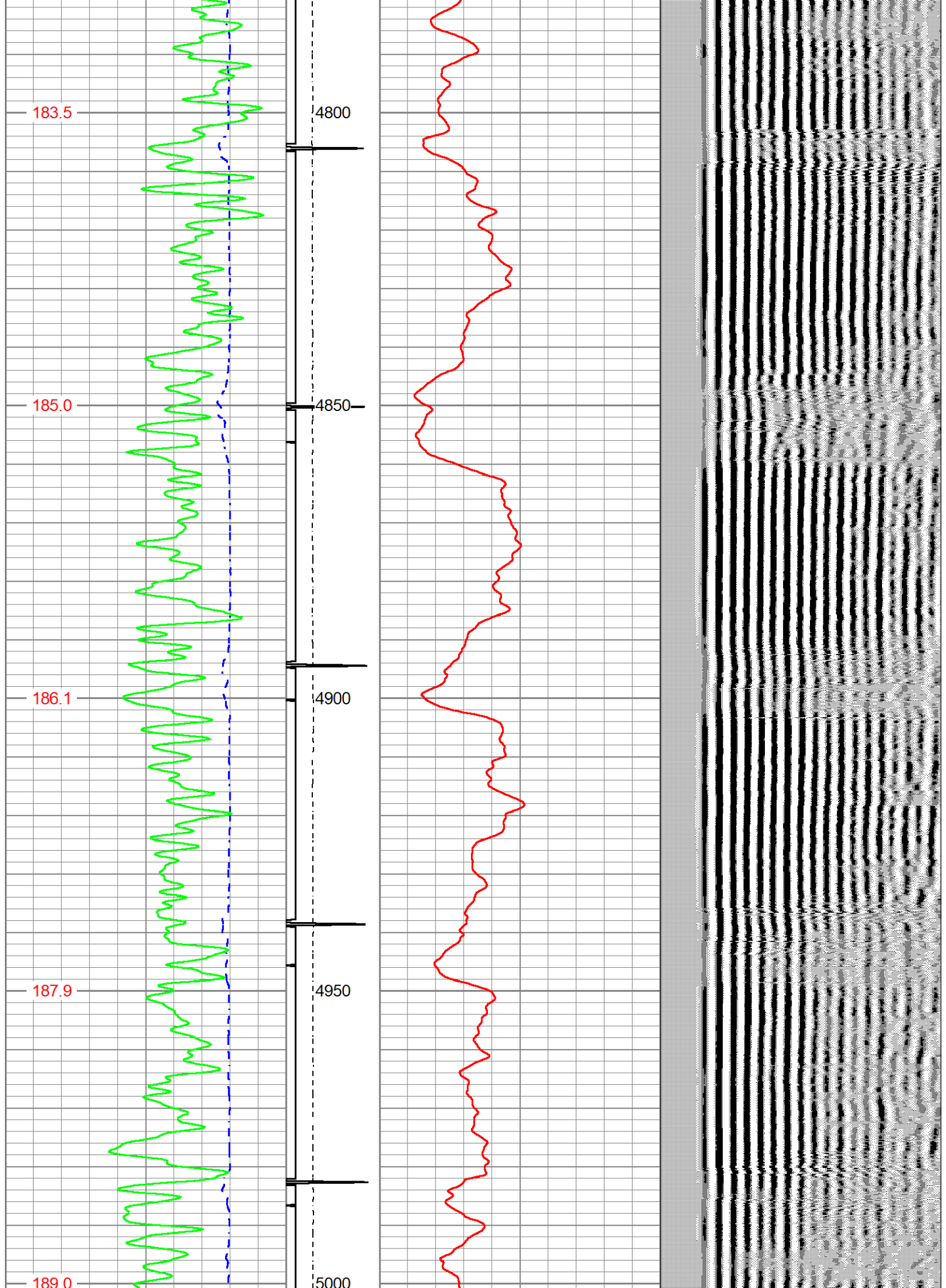


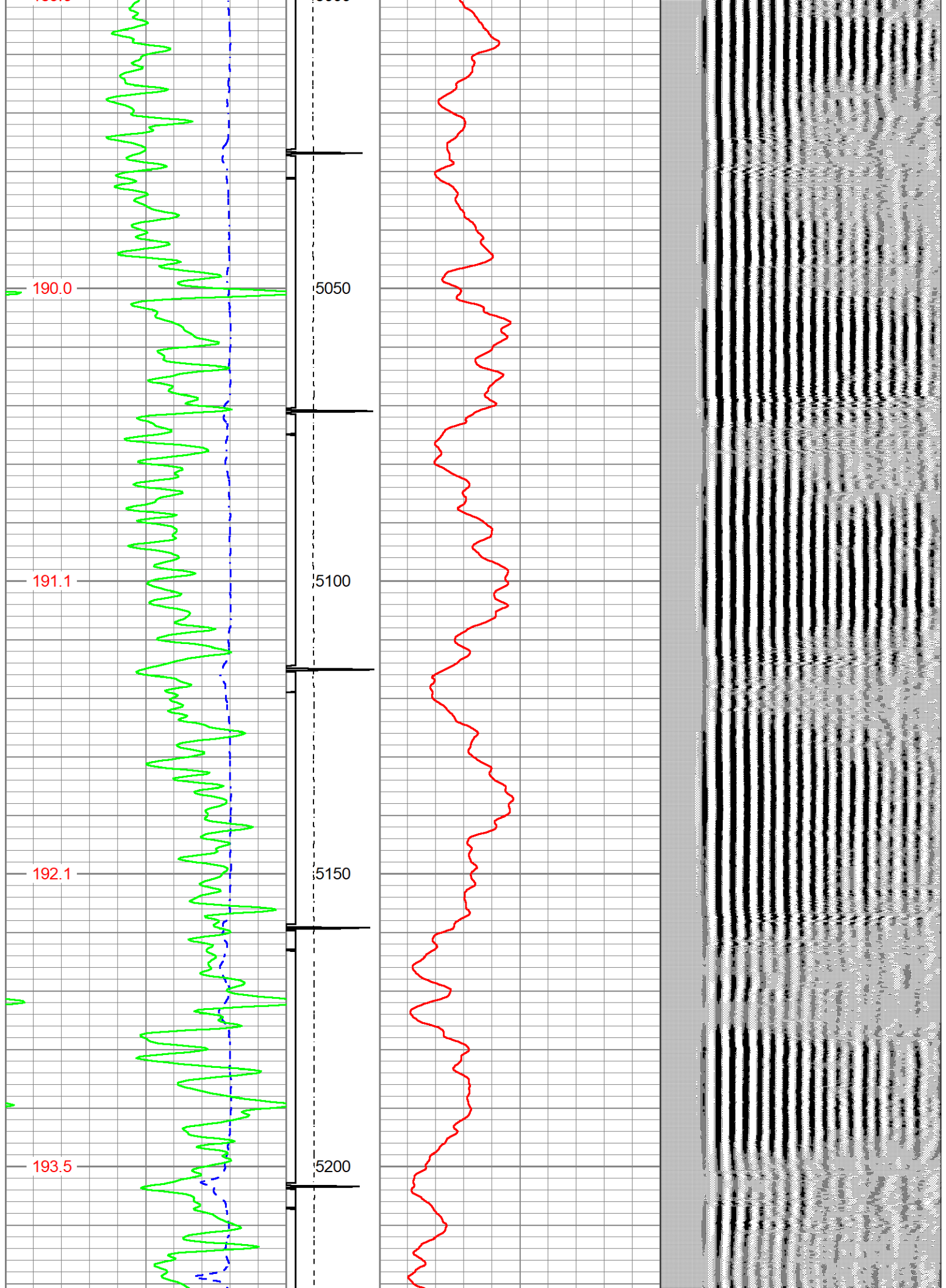


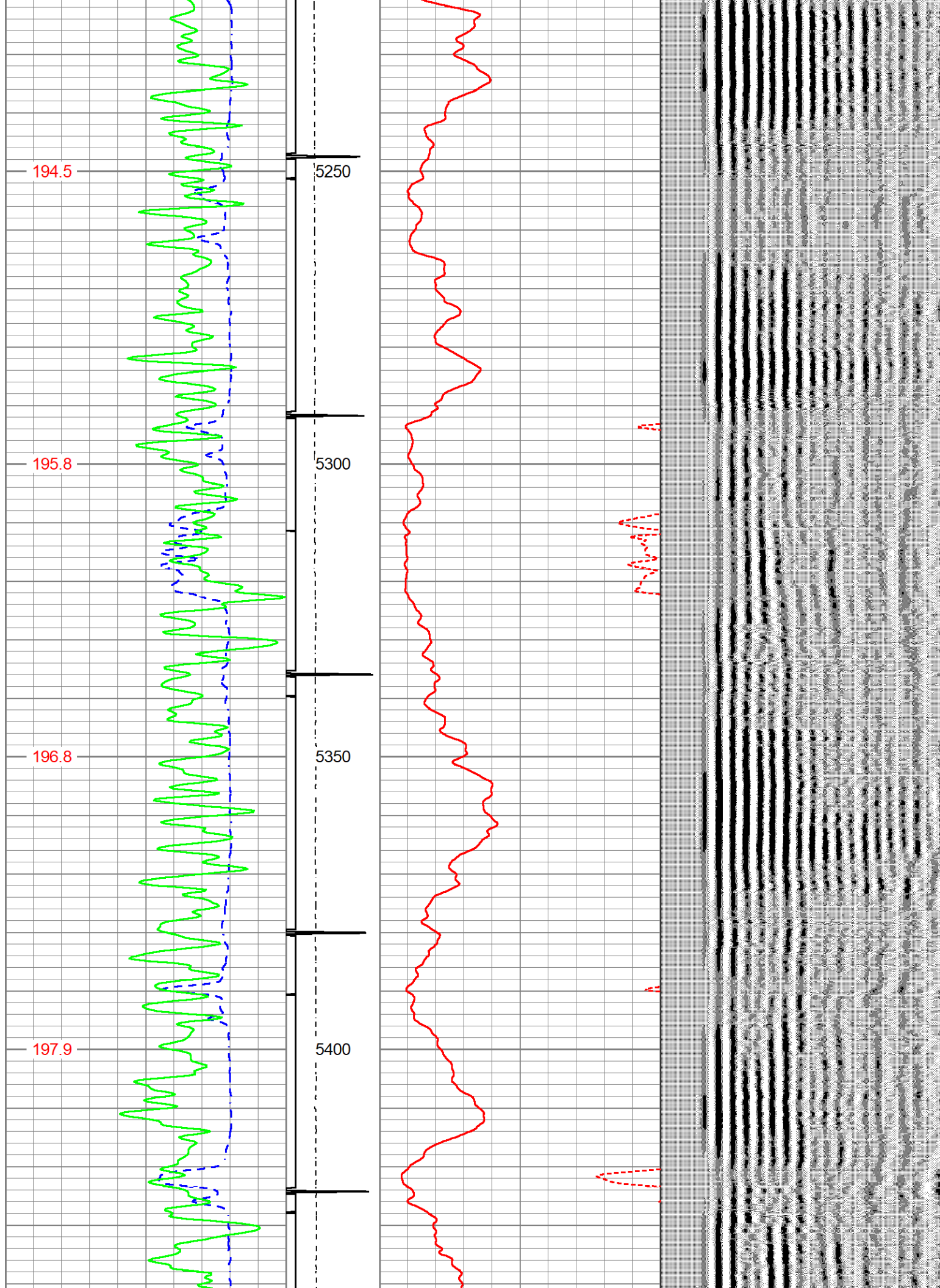


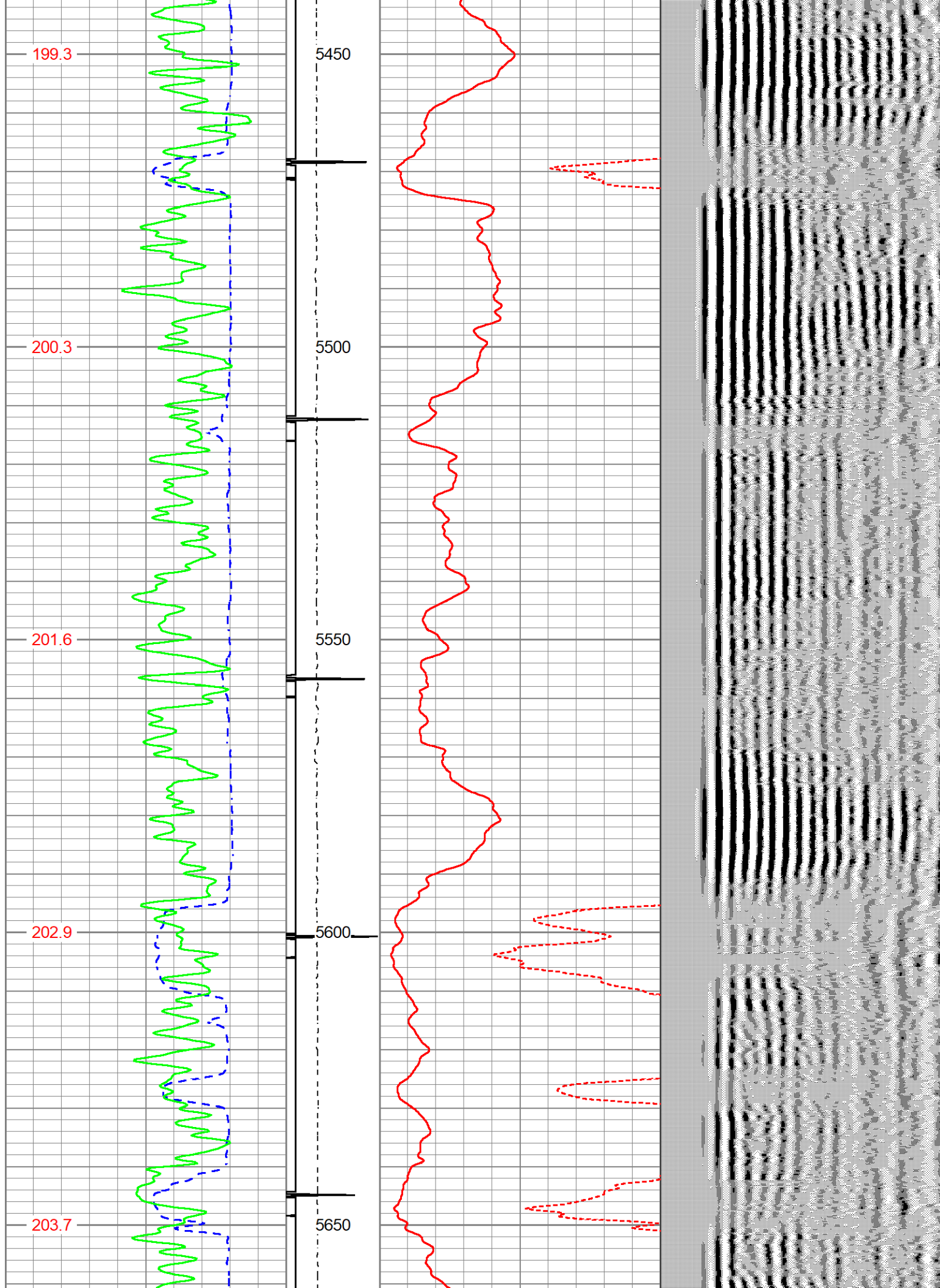


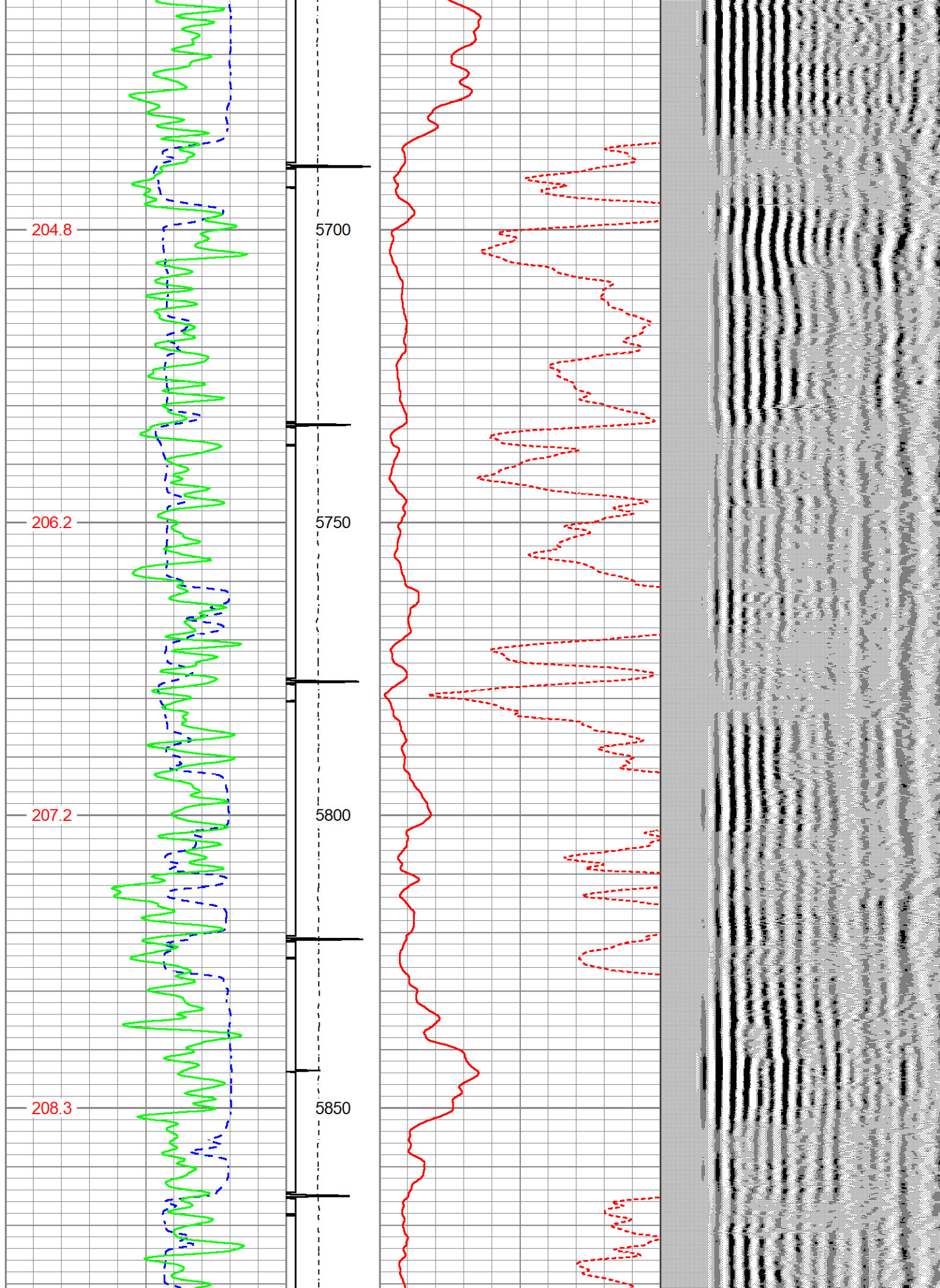


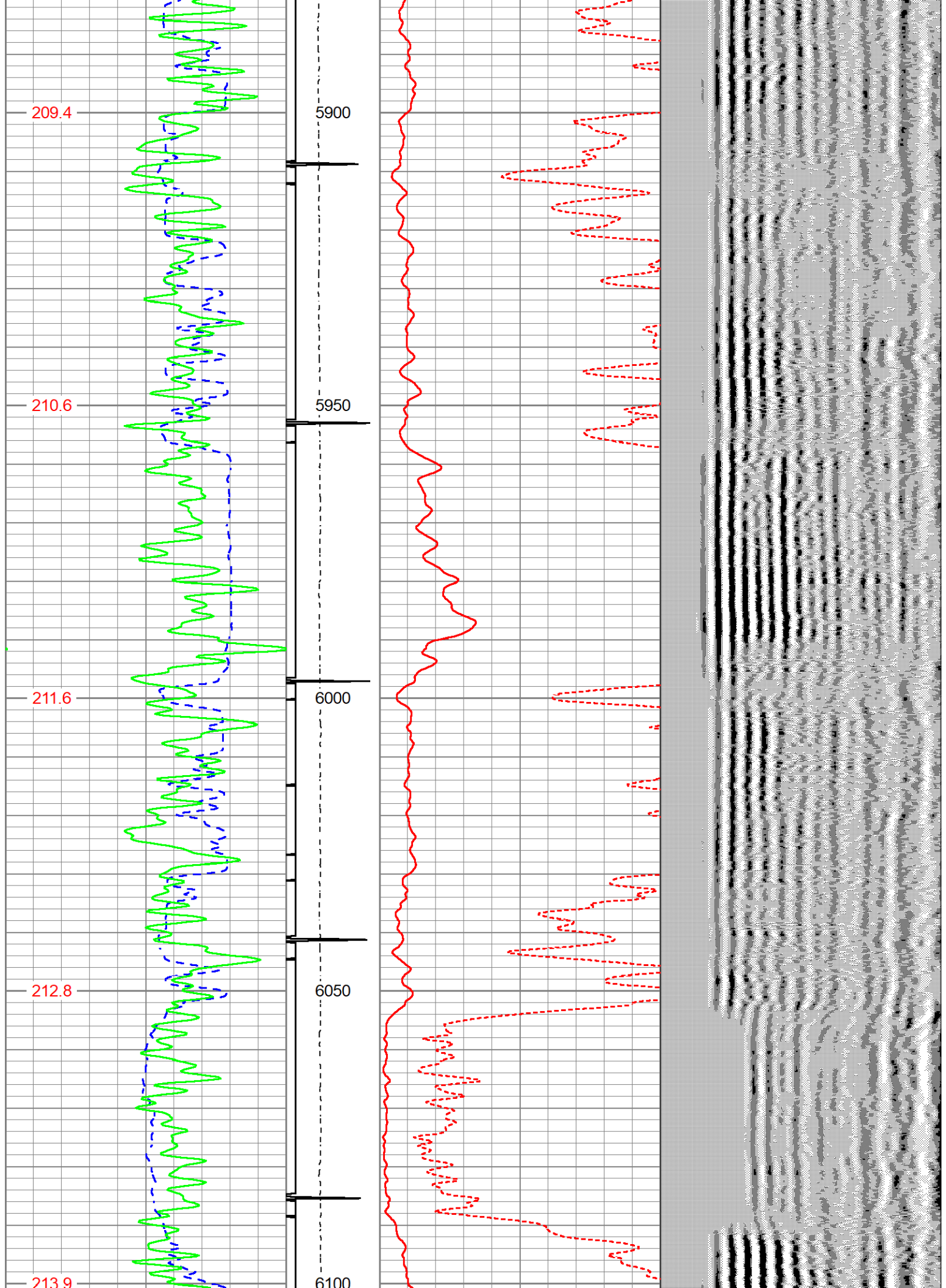


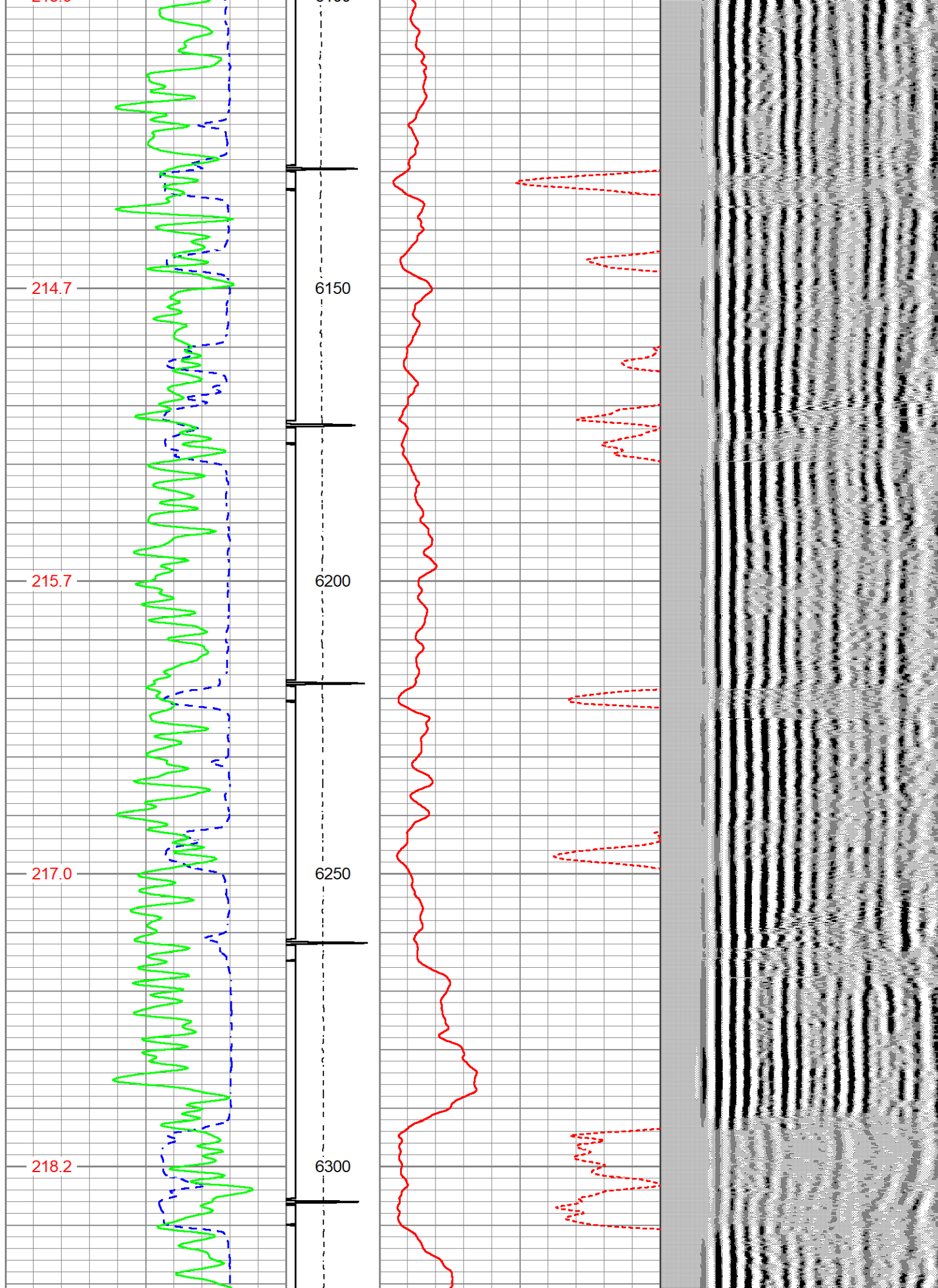


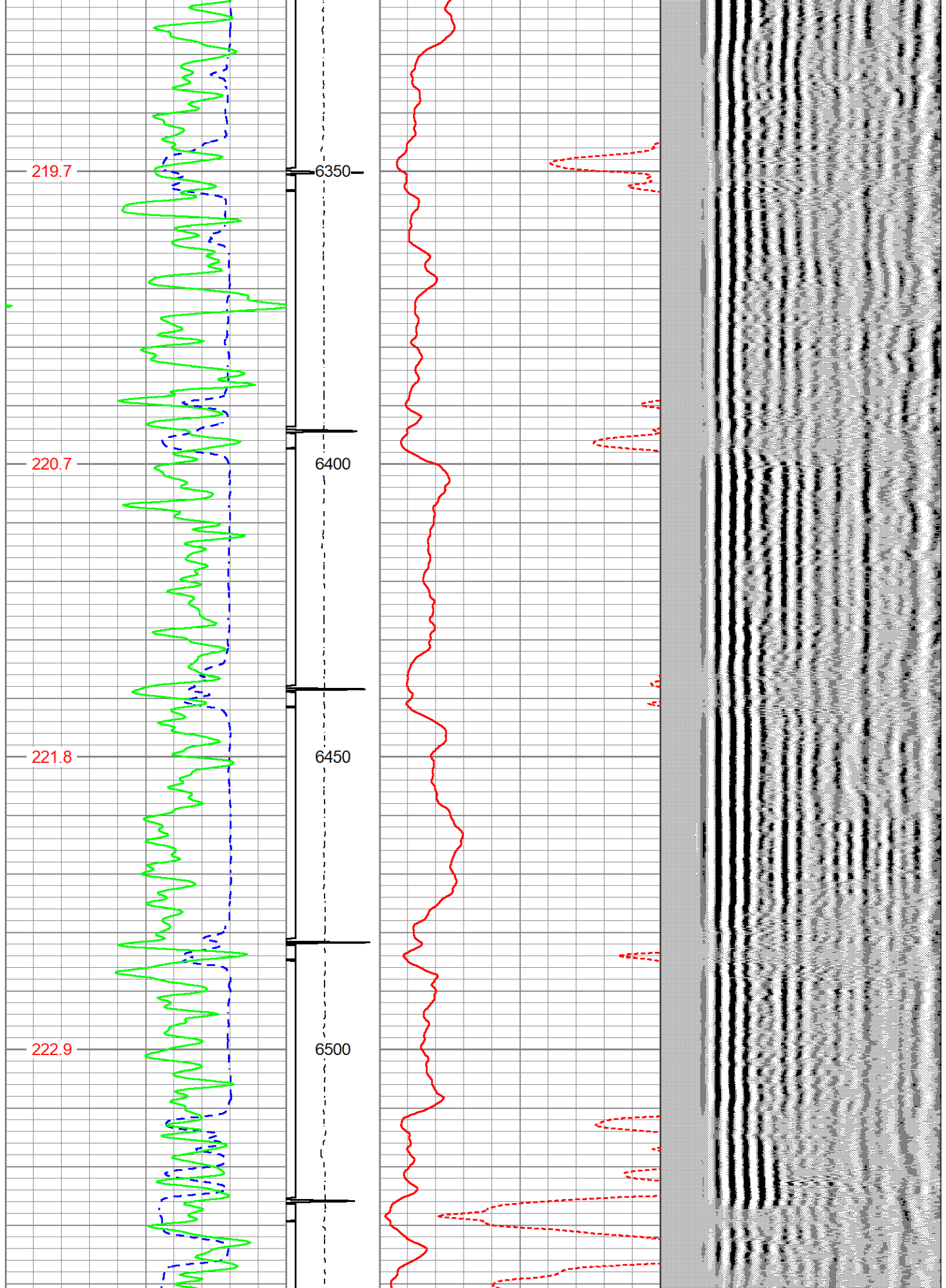


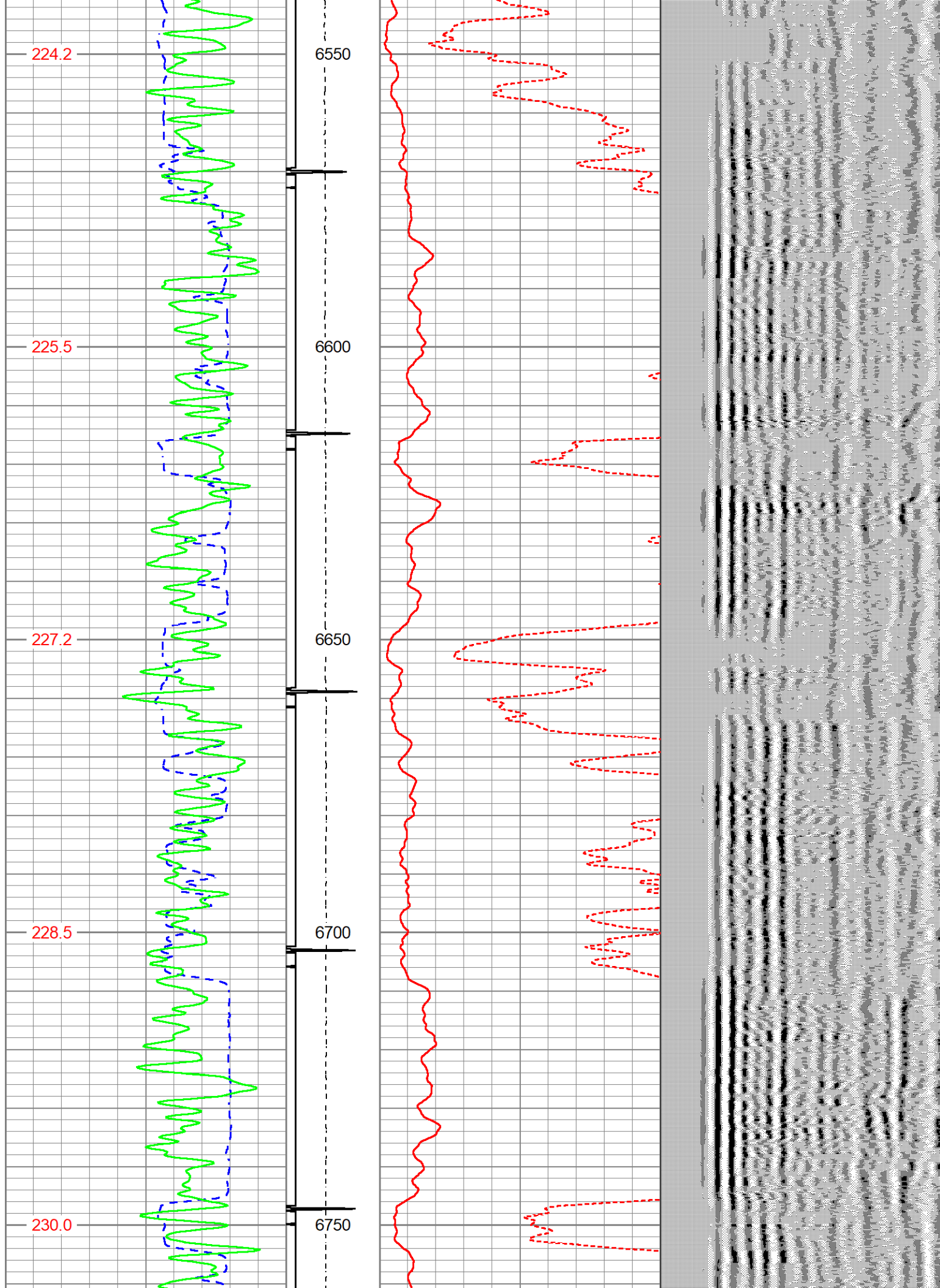


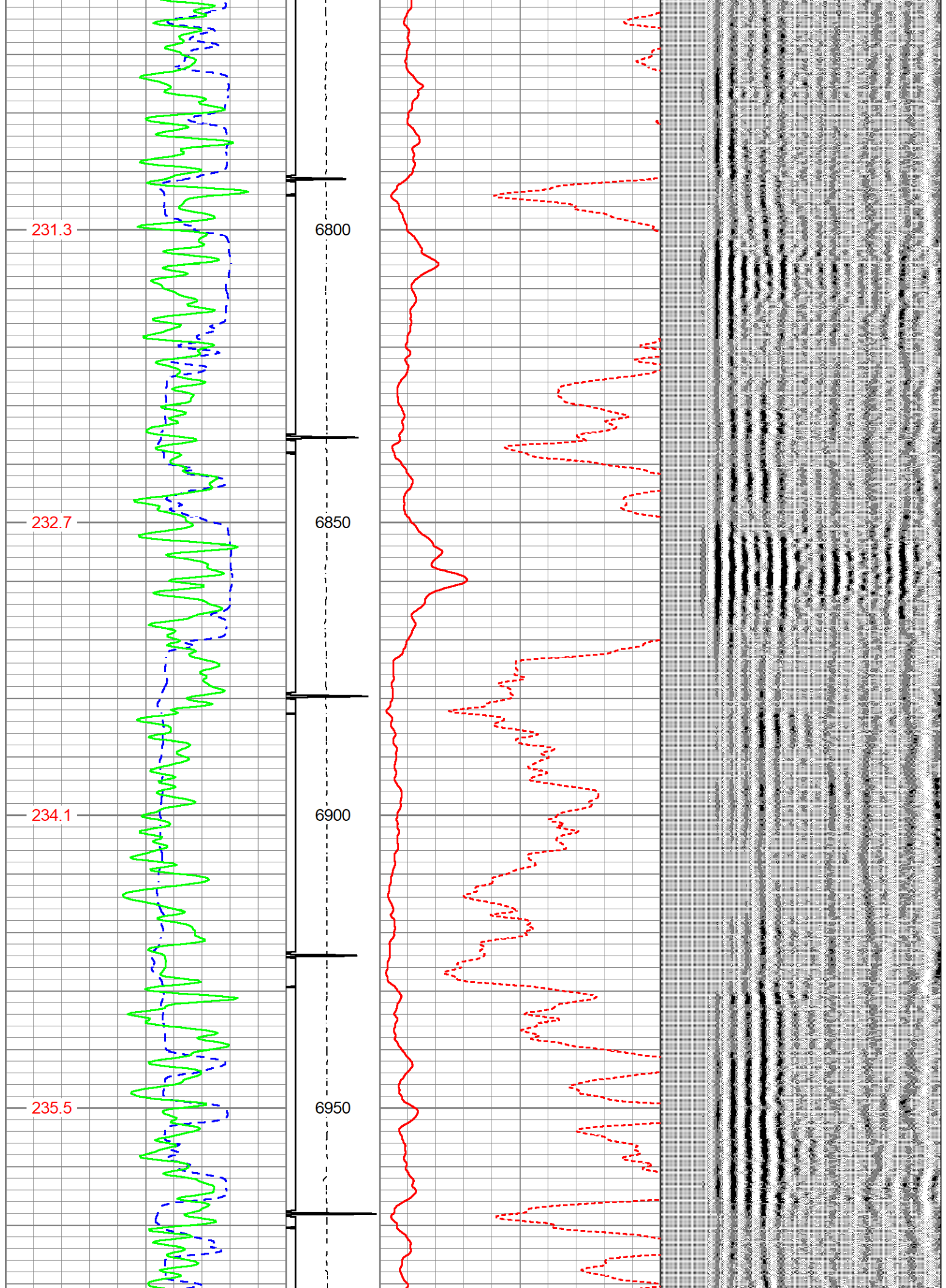


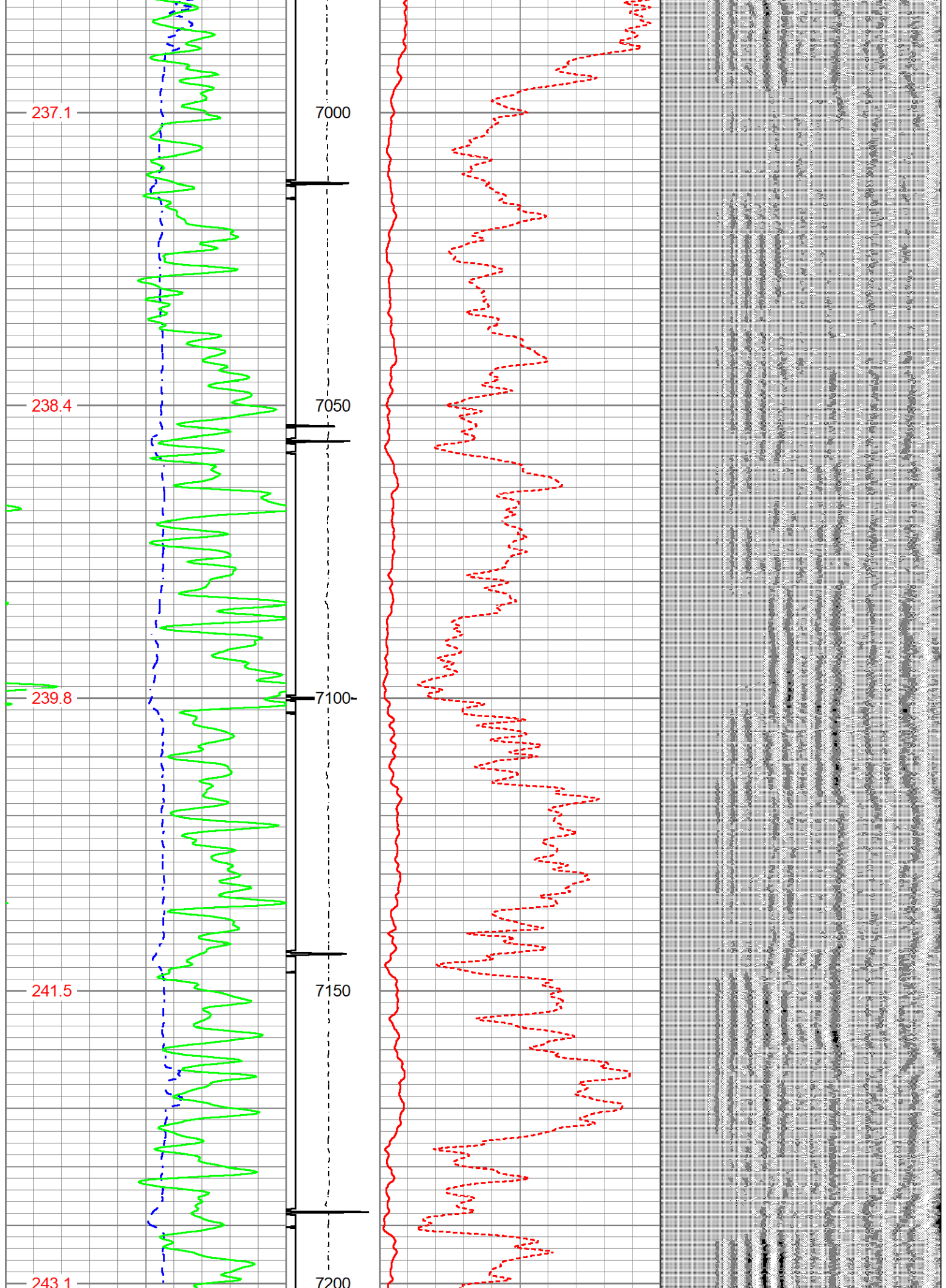


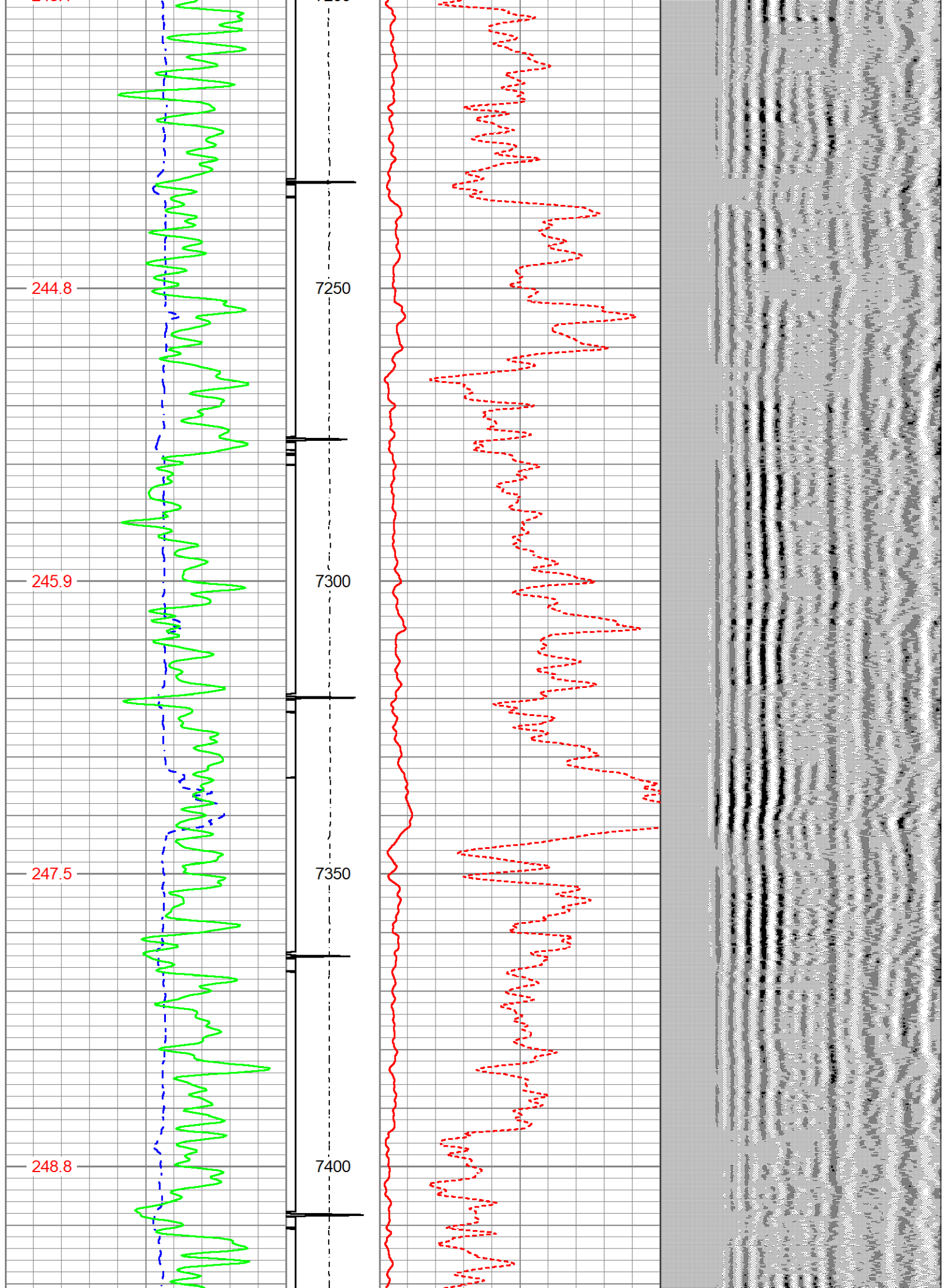


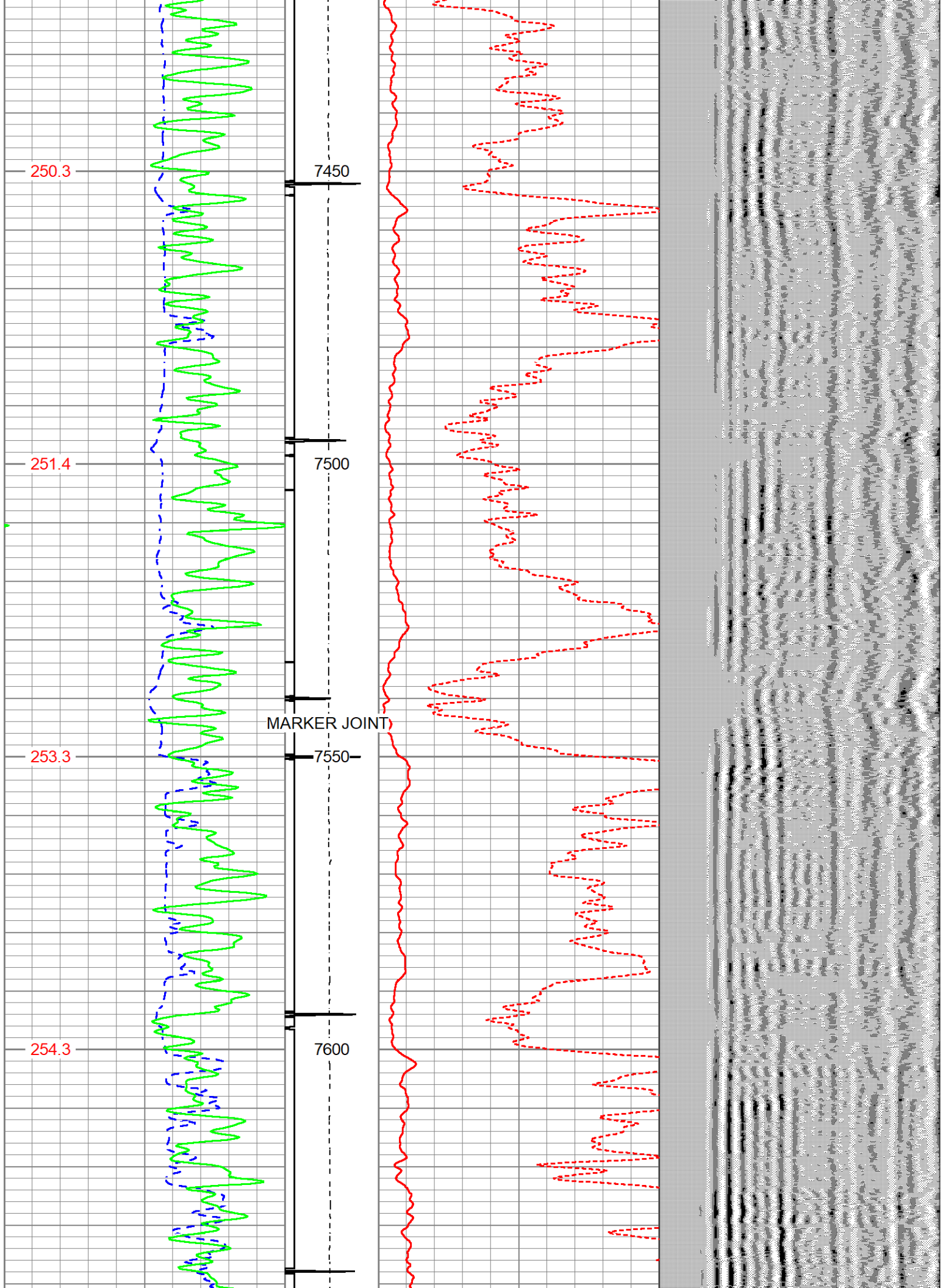


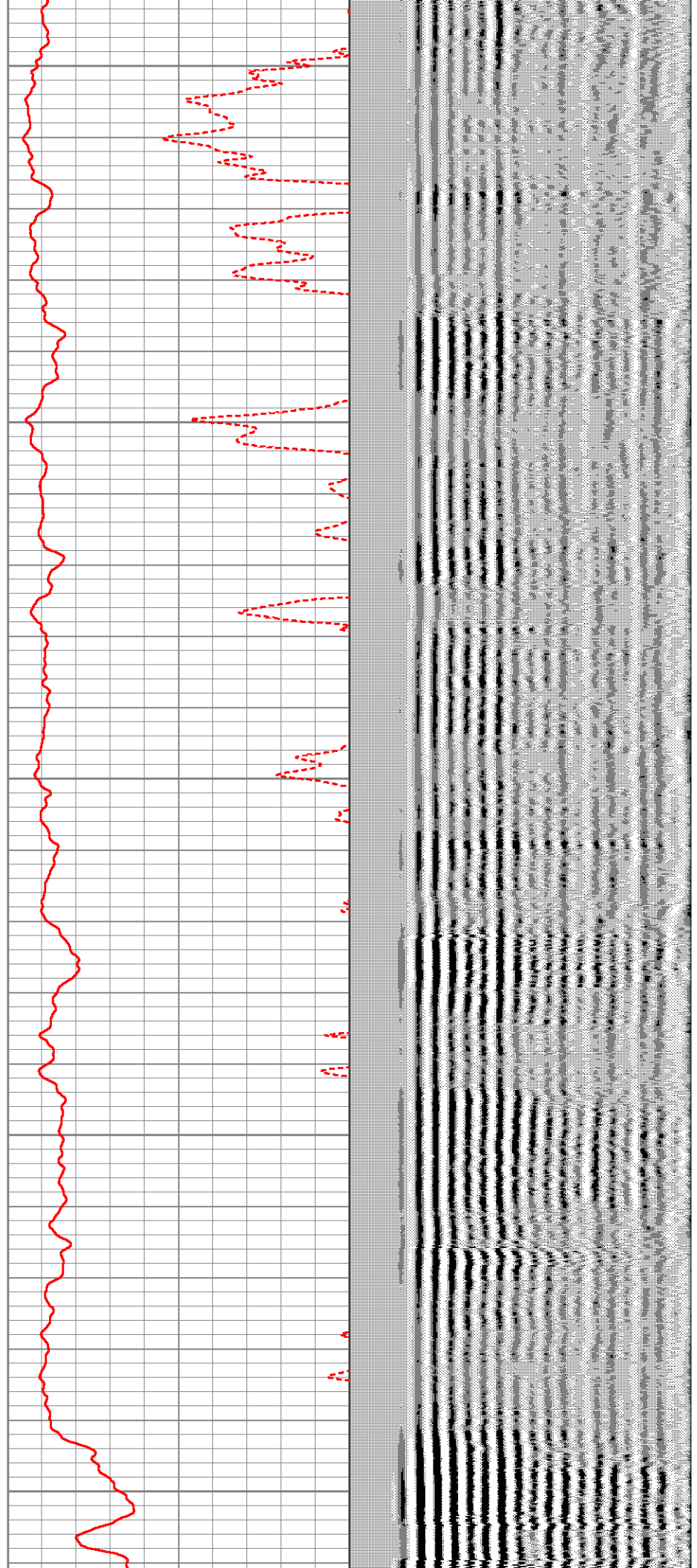
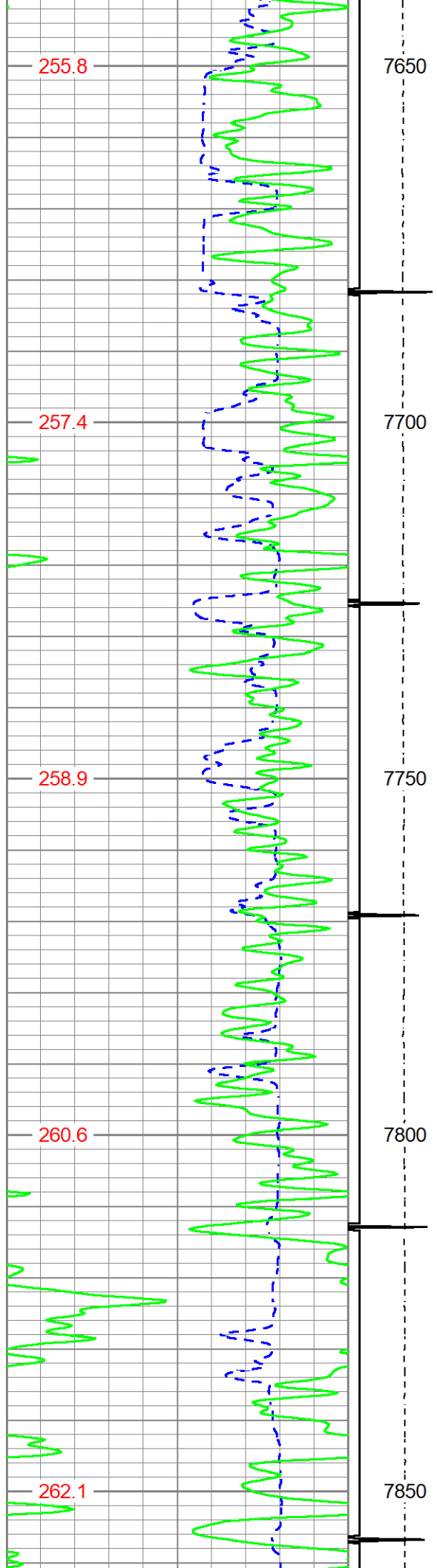


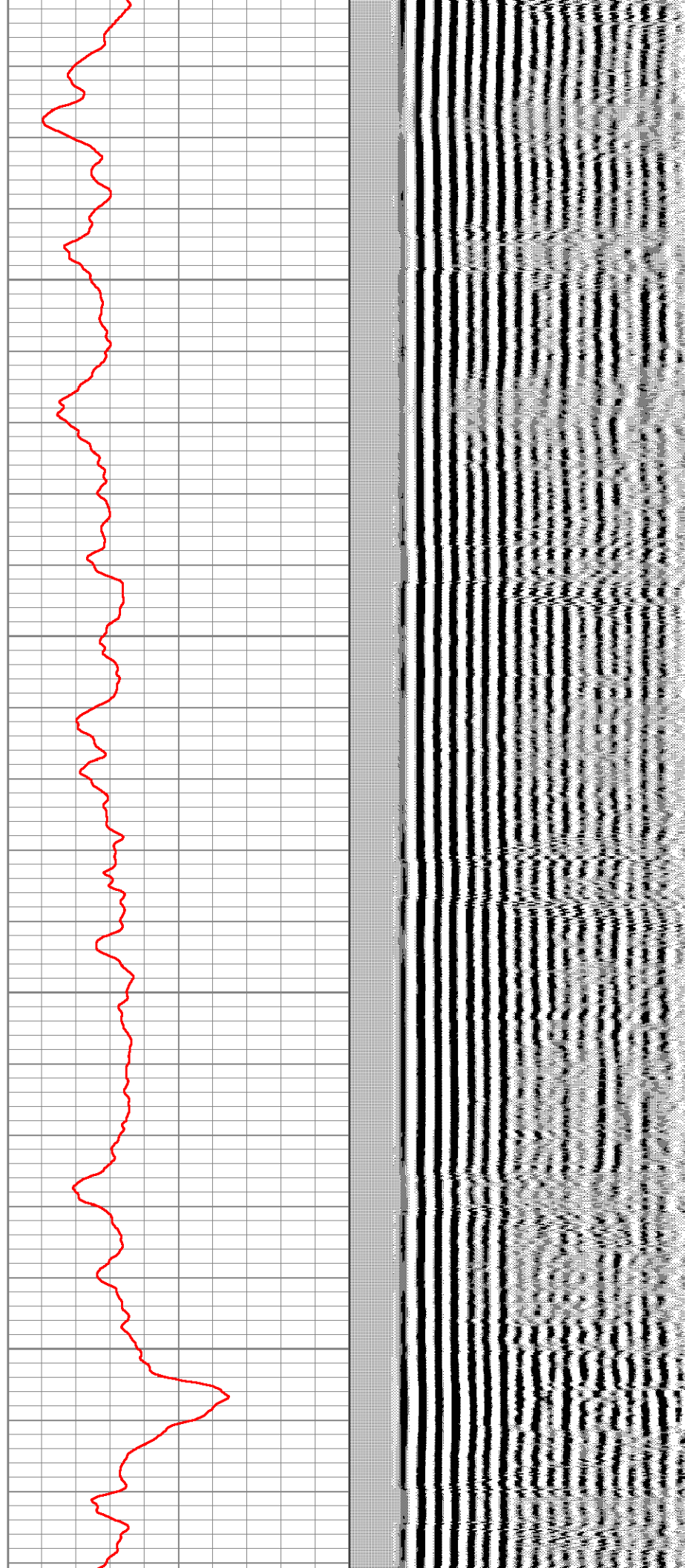
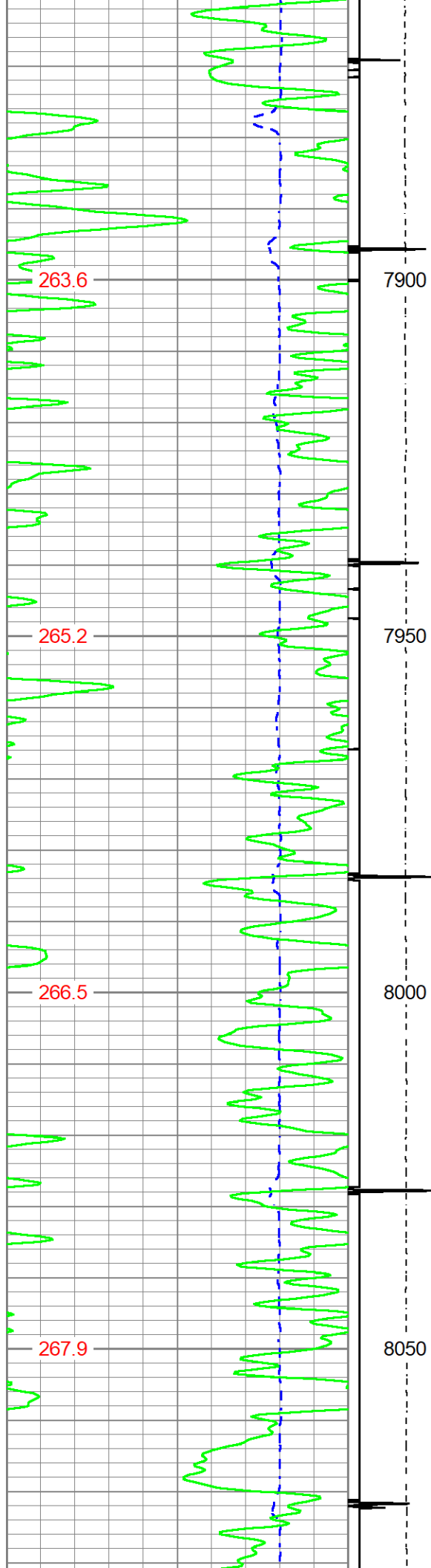


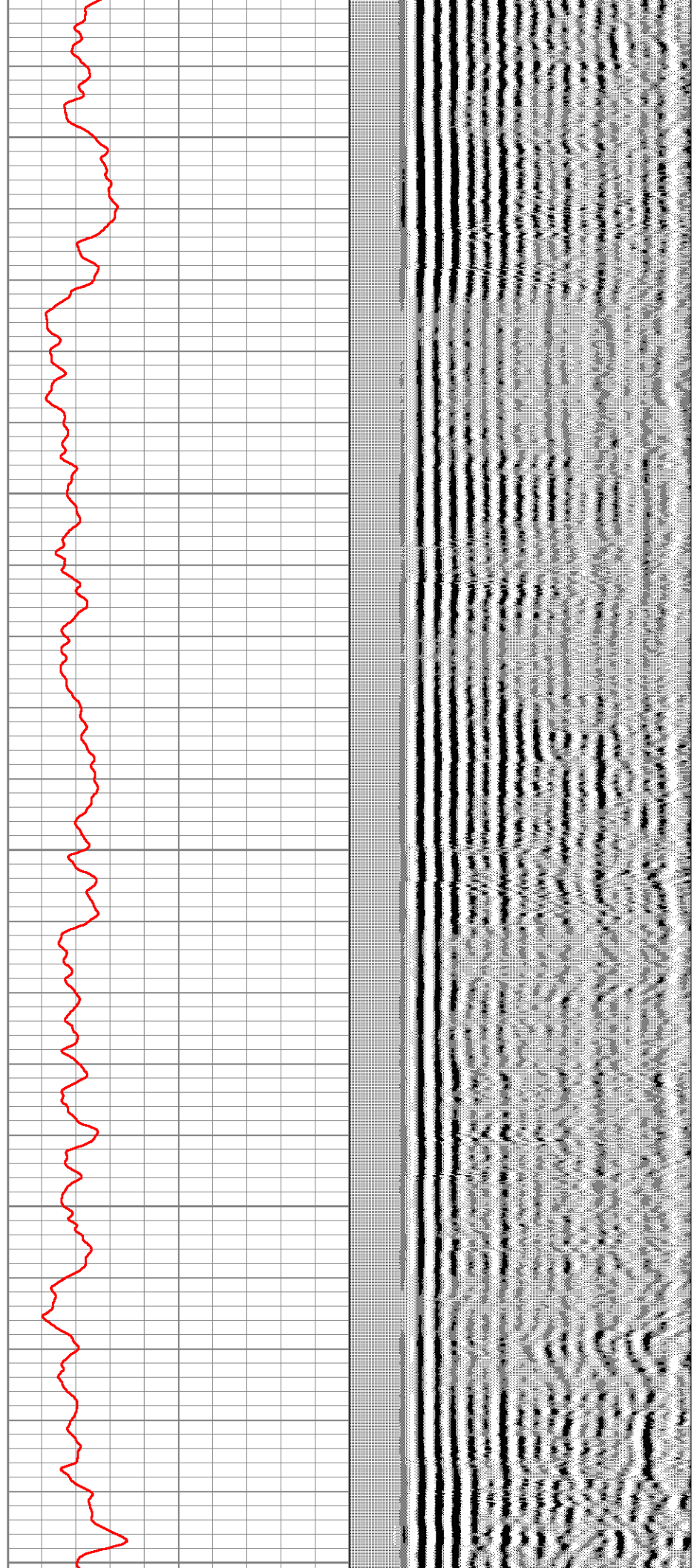
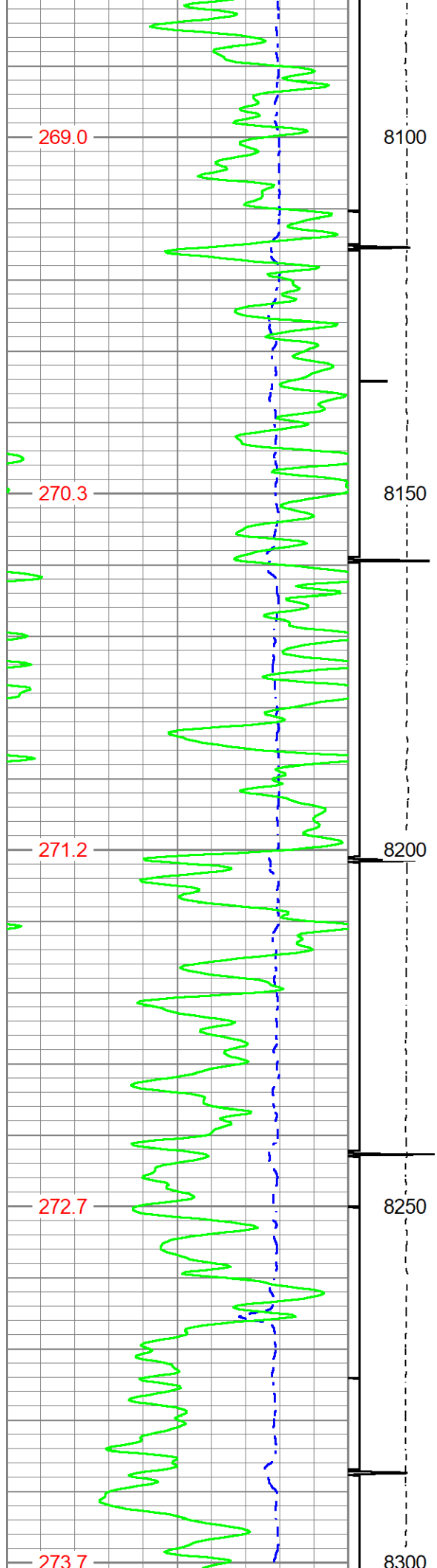


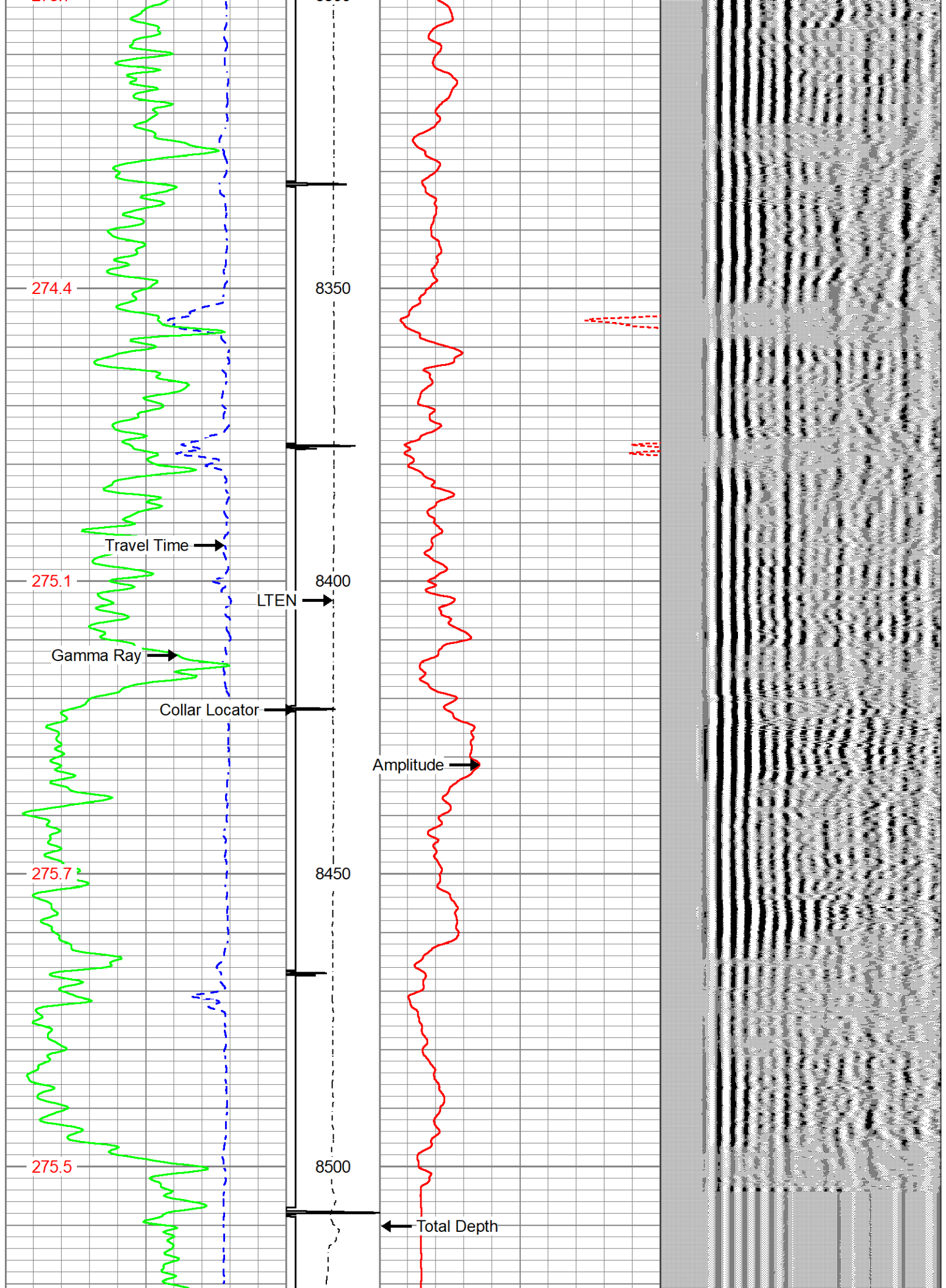


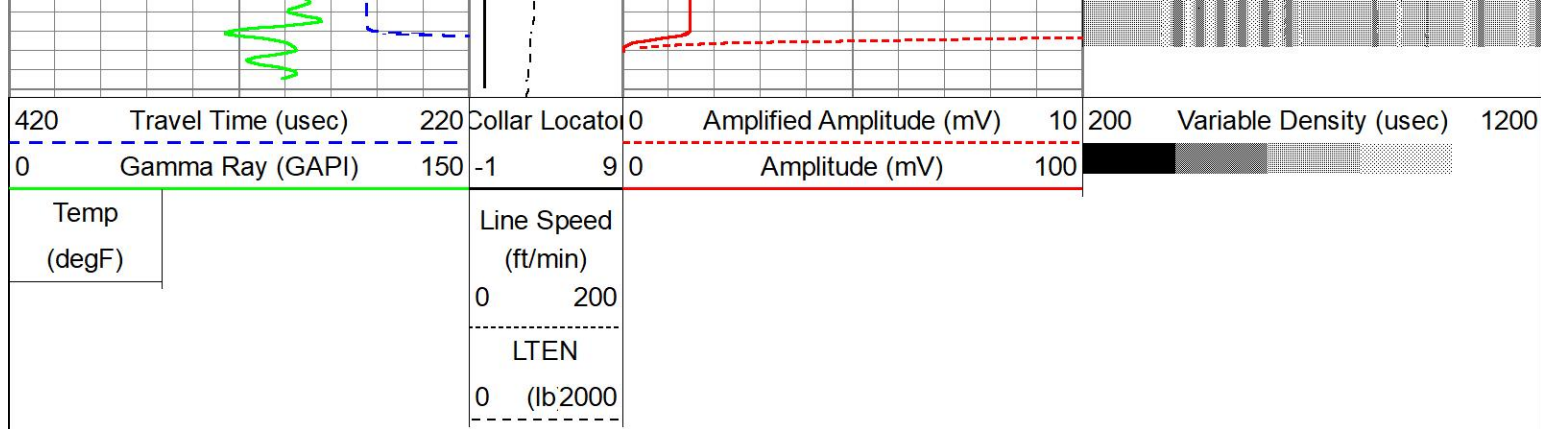






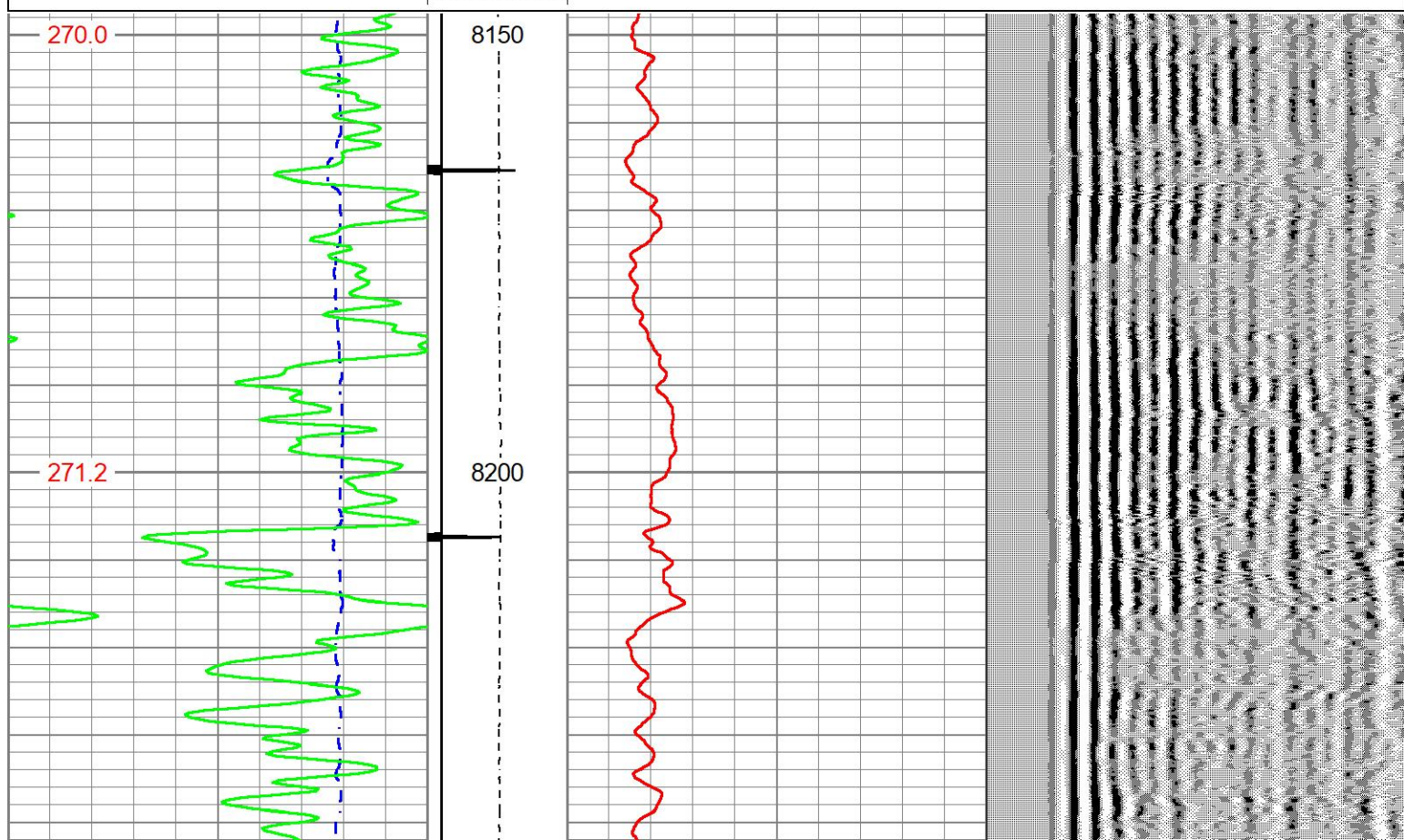
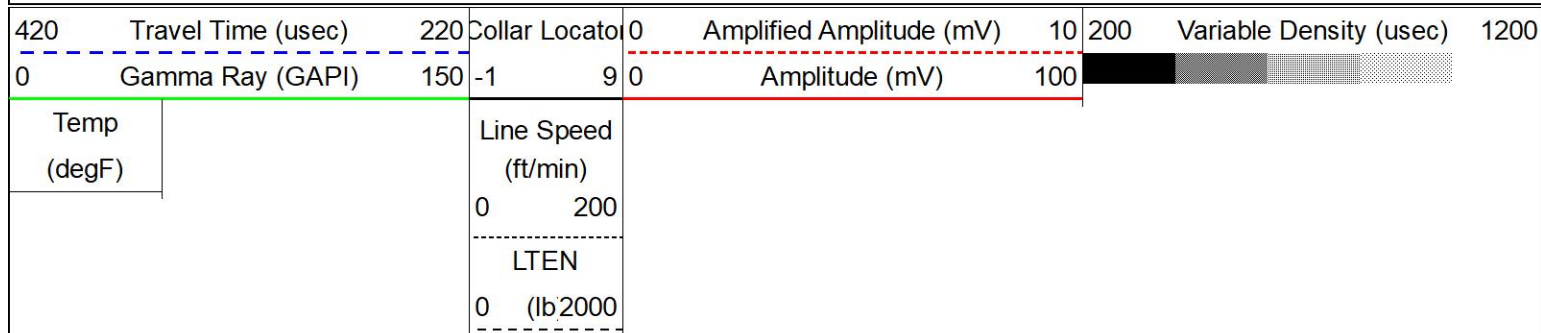


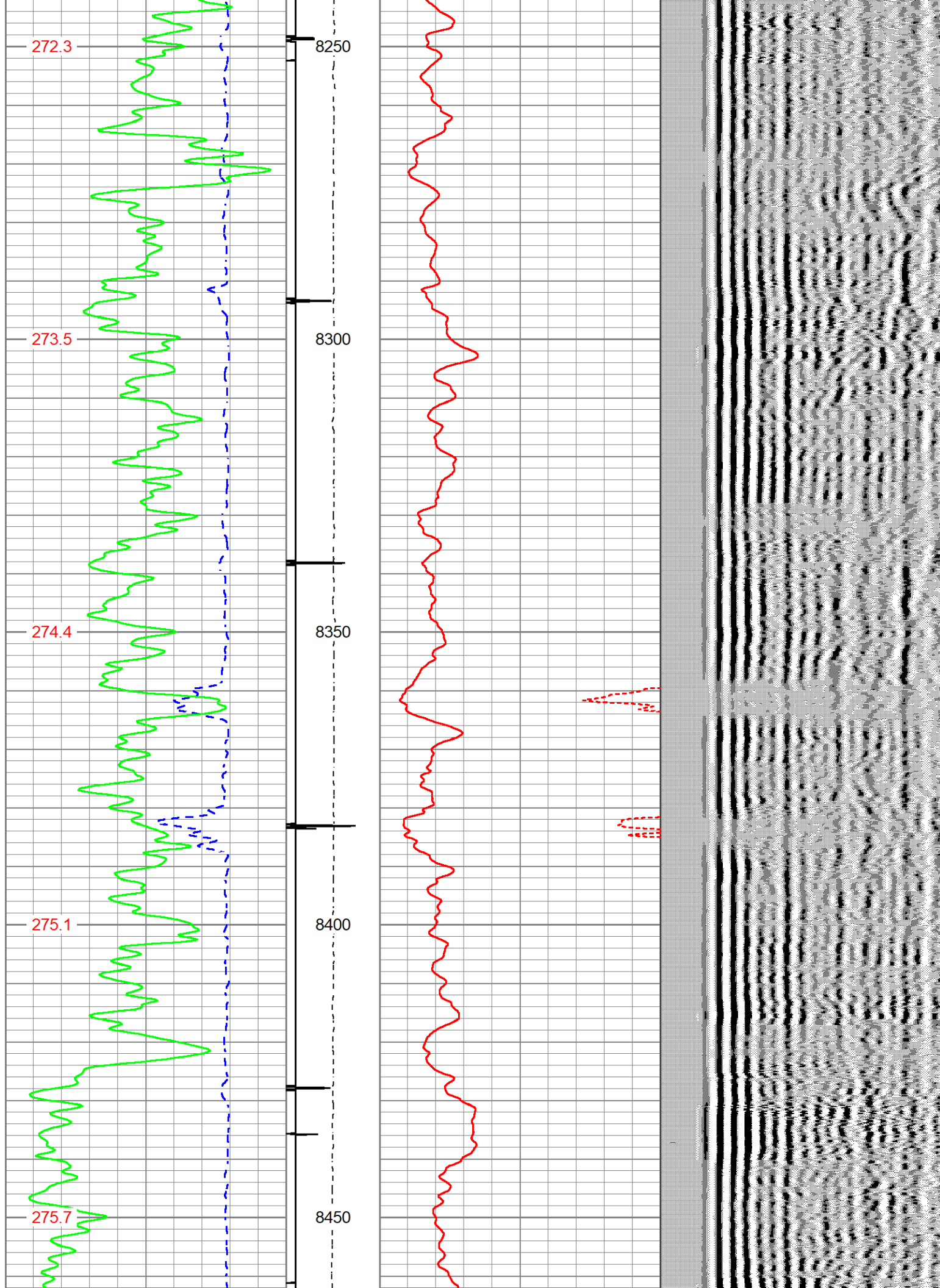


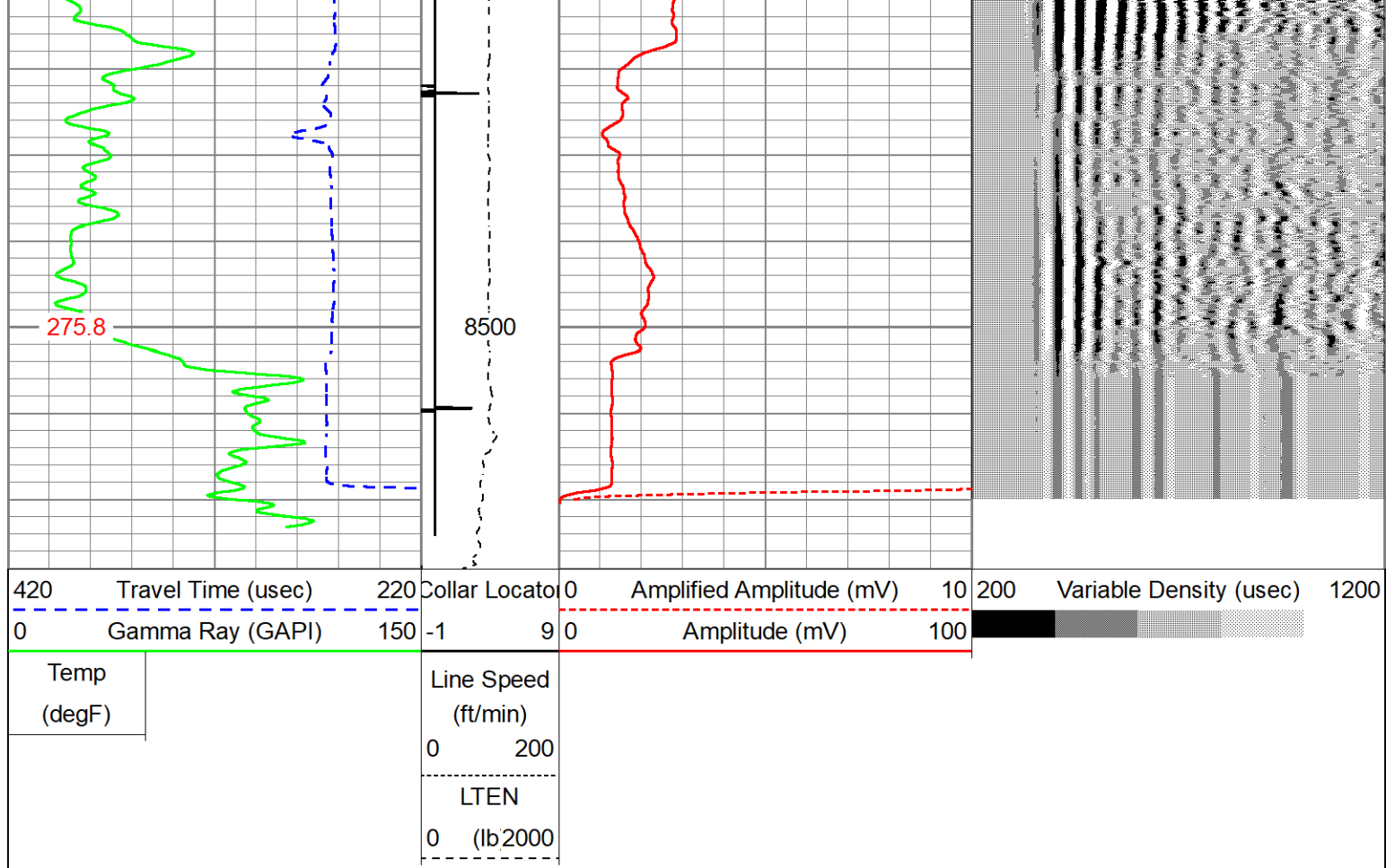


REPEAT PASS 4000 PSI.

Database File gw_b-farms Id 18-392hc.db
 Dataset Pathname run2/pass14
 Presentation Format cbl_cs
 Dataset Creation Mon Mar 25 16:06:27 2019
 Charted by Depth in Feet scaled 1:240







Calibration Report		
Database File	gw_b-farms Id 18-392hc.db	
Dataset Pathname	run2/pass16	
Dataset Creation	Mon Mar 25 17:39:05 2019	
Gamma Ray Calibration Report		
Serial Number:	121086	
Tool Model:	Probe275	
Performed:	Thu Mar 21 15:35:55 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8200	GAPI/cps
Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1808-069	
Tool Model:	Probe 2.75 Radii W/Temp	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	580.592	ft

Master Calibration, performed Mon Mar 25 08:06:04 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	0.474	1.000	72.000	151.226	0.286
CAL	0.005	0.867				

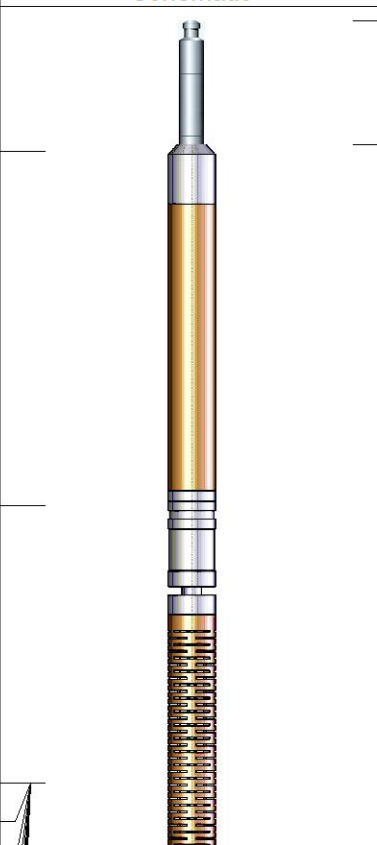
5'	0.036	0.507	1.000	72.000	150.811	-4.451
SUM						
S1	0.029	0.535	0.000	72.000	142.404	-4.200
S2	-0.005	0.493	0.000	72.000	144.480	0.716
S3	0.004	0.518	0.000	72.000	140.231	-0.611
S4	0.005	0.506	0.000	72.000	143.537	-0.689
S5	0.001	0.494	0.000	72.000	145.924	-0.155
S6	0.003	0.474	0.000	72.000	152.559	-0.385
S7	0.003	0.465	0.000	72.000	155.993	-0.537
S8	0.005	0.469	0.000	72.000	154.940	-0.728

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.005	0.867	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
HeadVolt	14.13		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
Temp	11.28					
WVFS8 WVFS7	9.05 9.05		RBT-Probe 2.75 Radii W/Temp (FW1808-C9.39) Probe 2.75" Radial with Integral Temperature Sub		2.75	90.00

