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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

Cement Bond Log ran as per customer request
Depth Correlated to Casing Tally reported Marker Joint @ 7062 FT
Adjusted log +13 FT to correlate with Marker Joint
Retrievable Bridge Plug Set @ 7526 FT.
Log ran from 7450 FT to Surface
Log ran with 4000 PSI Surface Induced Pressure.

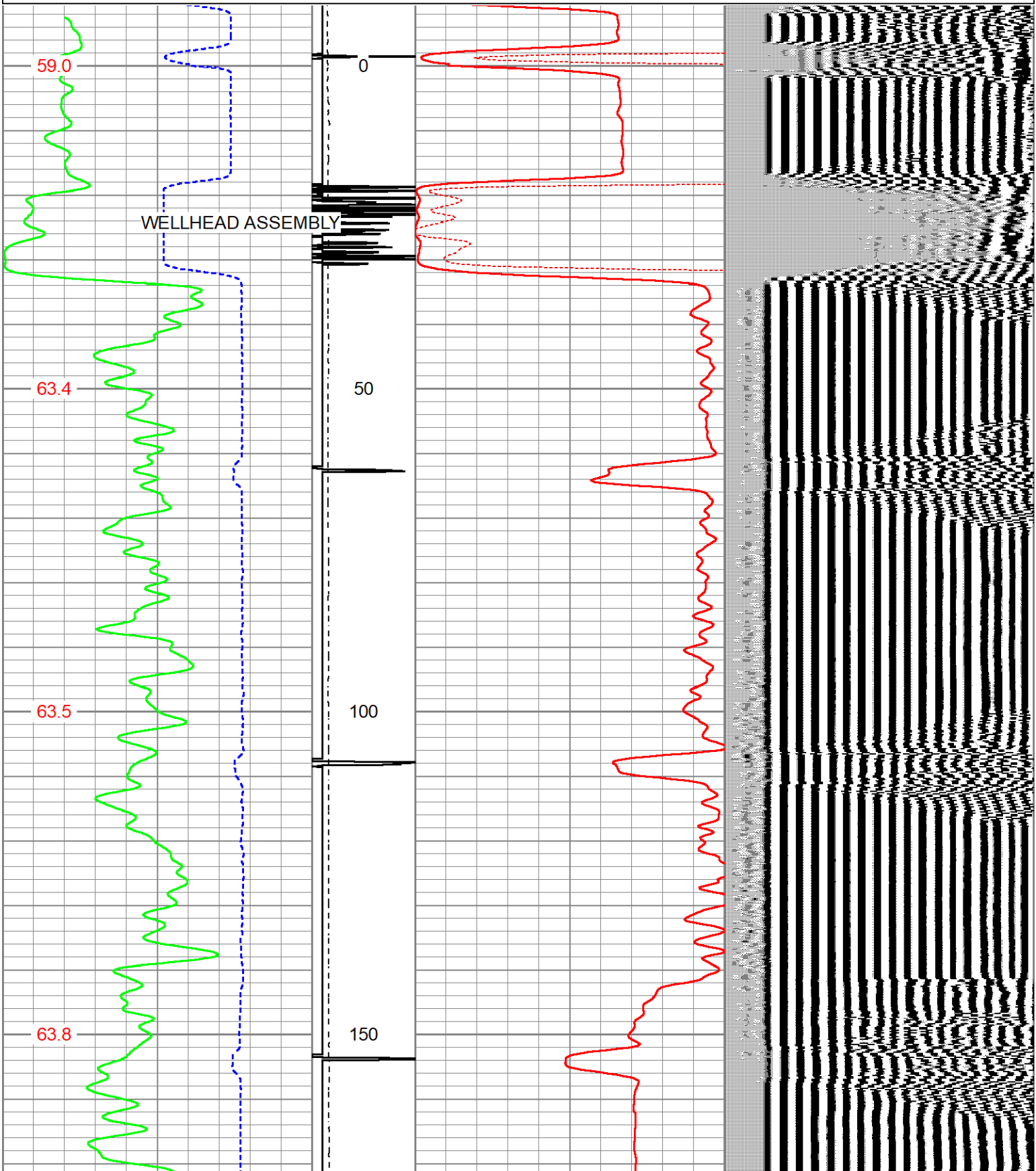
Thank you for choosing KLX Energy Services!!

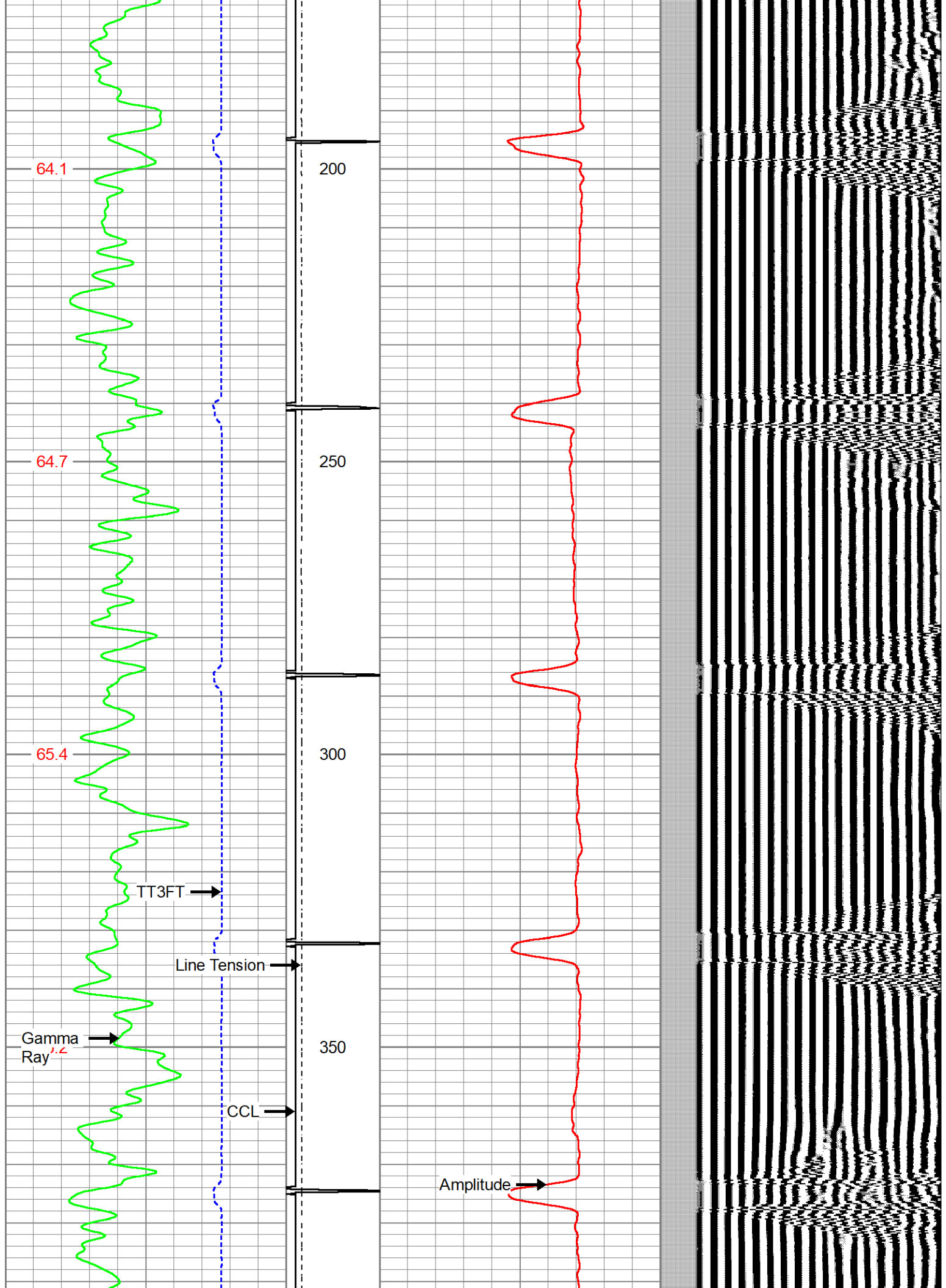


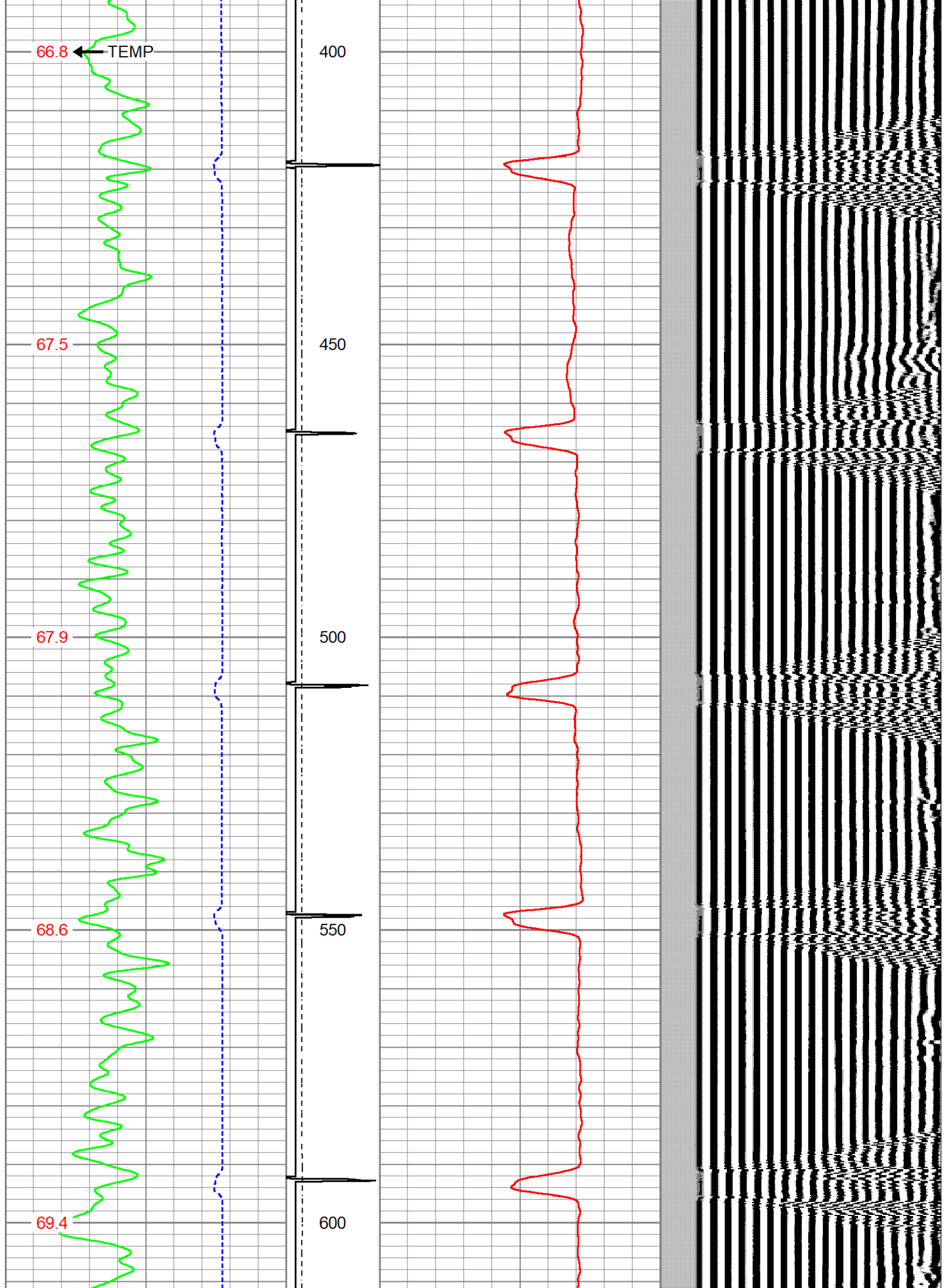
RECORDED WITH 4000 PSI SURFACE INDUCED PRESSURE.

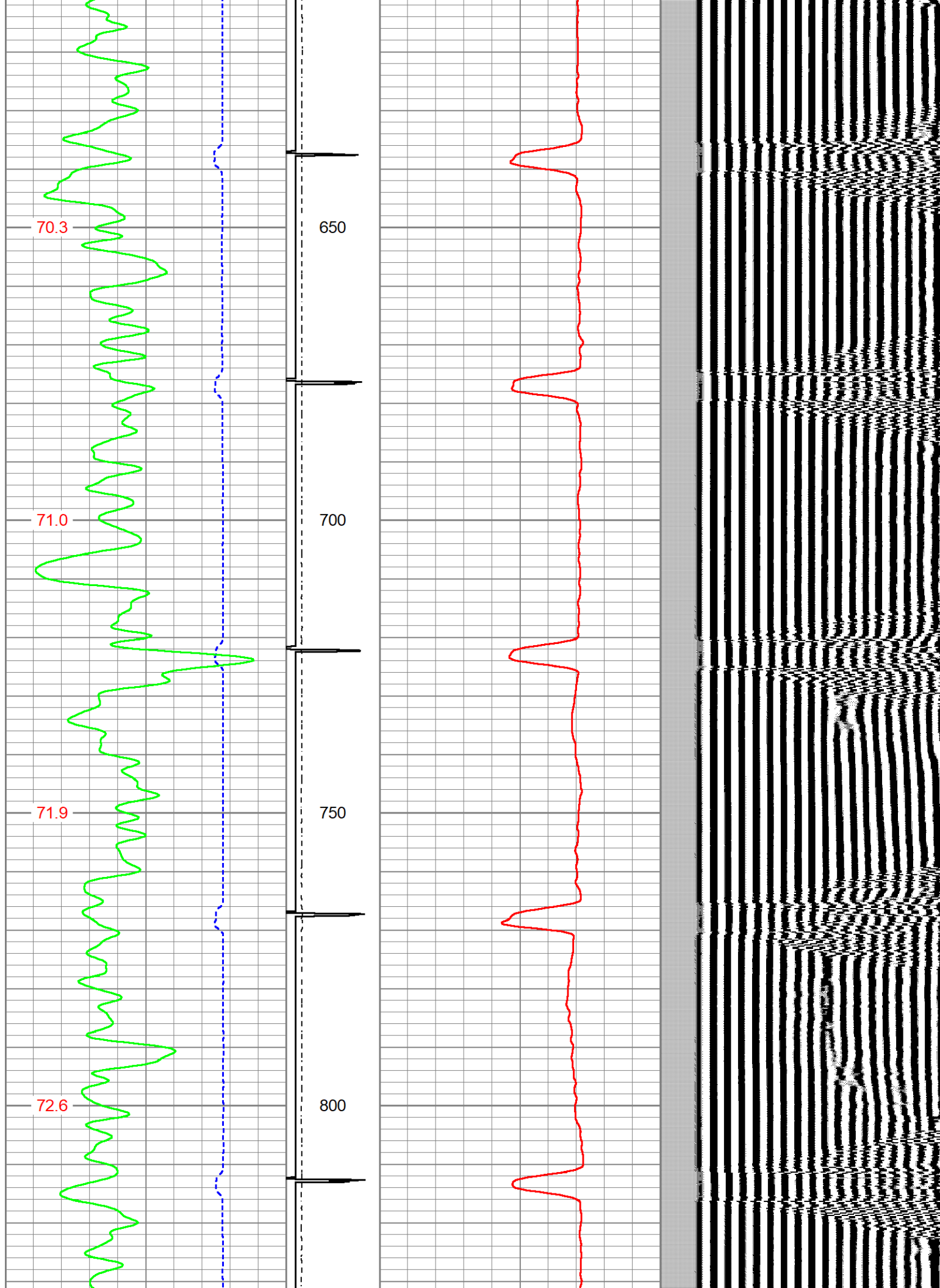
Database File	b_farm_id_18-391hnx_6_april_2019_4000psi_cbl.db
Dataset Pathname	391hx/run1/pass11
Presentation Format	cbl_cs
Dataset Creation	Sat Apr 06 21:42:19 2019
Charted by	Depth in Feet scaled 1:240

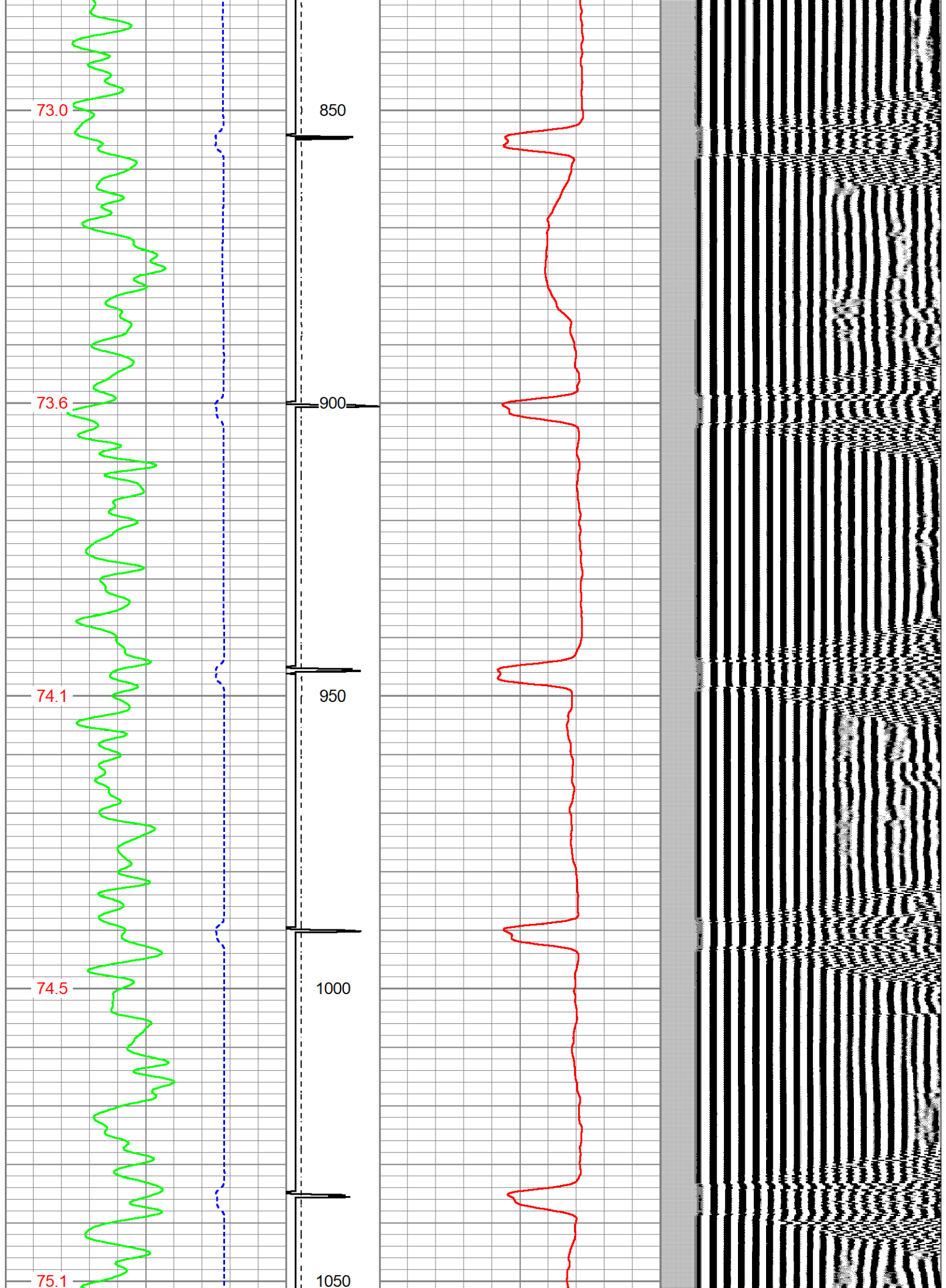
420	TT3FT (usec)	220	CCL	0	Amplitude (mV)	100	200	Variable Density (usec)	1200
0	Gamma Ray (GAPI)	150	Line Tension	0	Amplified Amplitude (mV)	10			
Temp		0	(lb)2500						
(degF)									

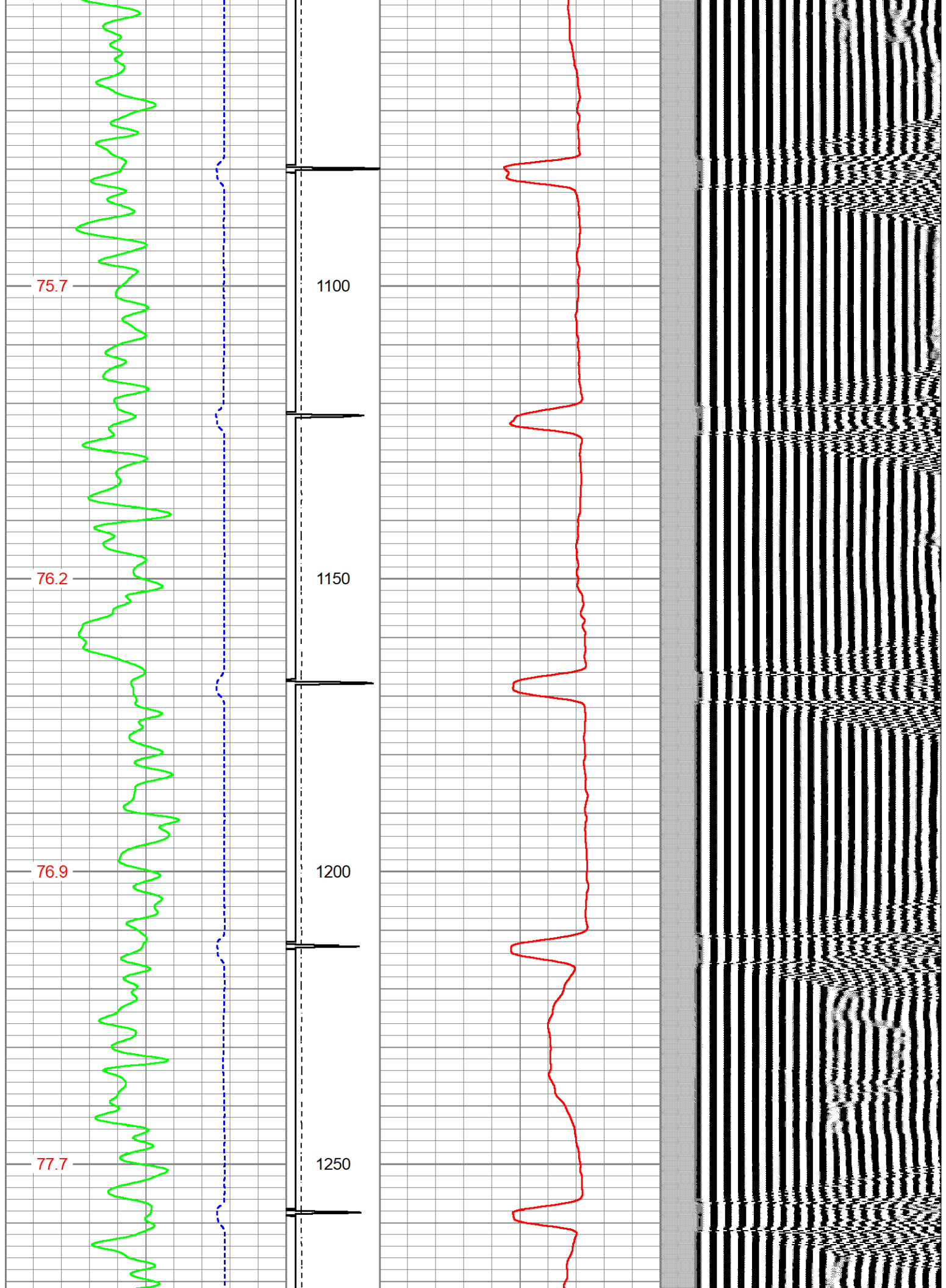


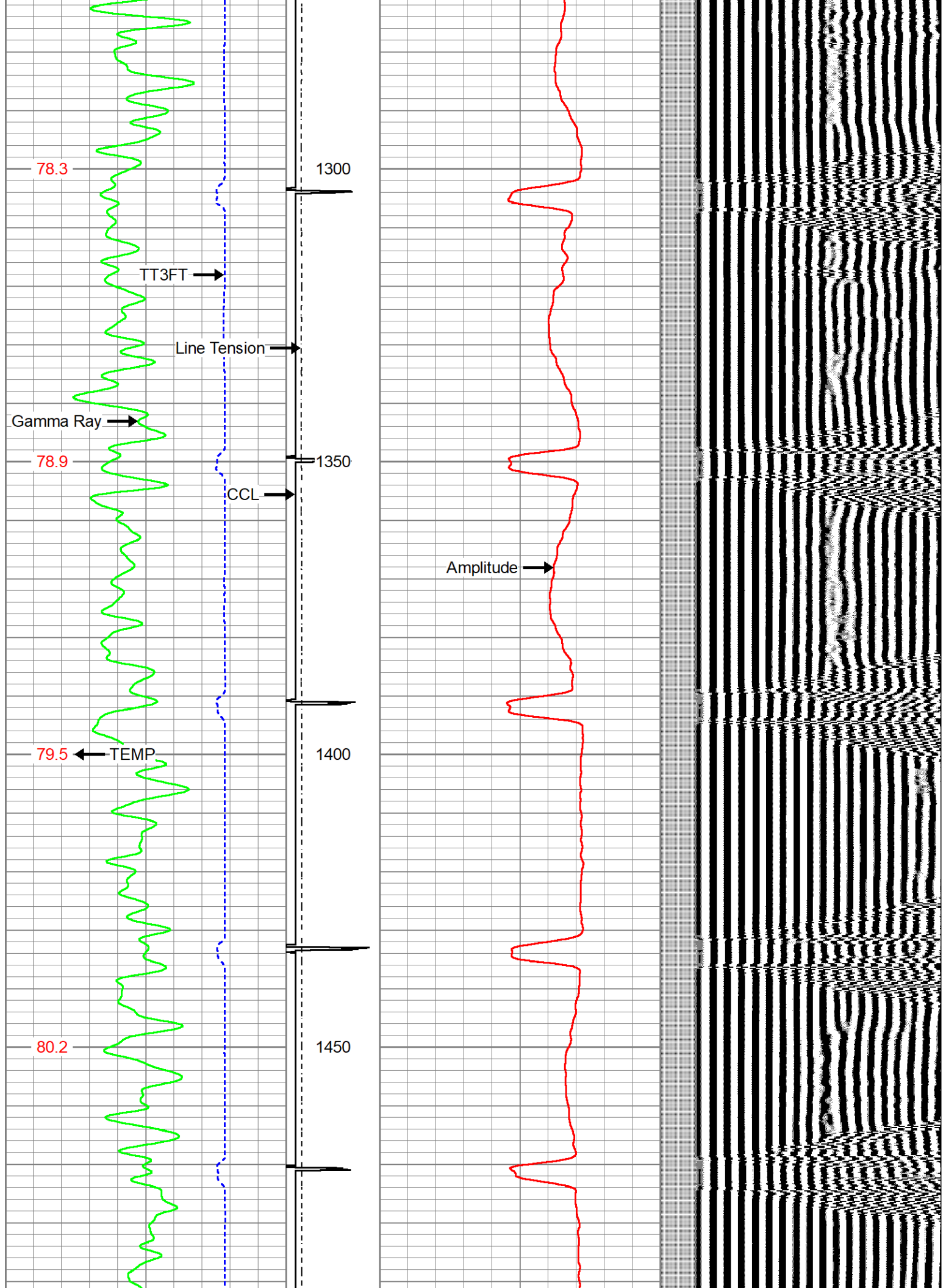


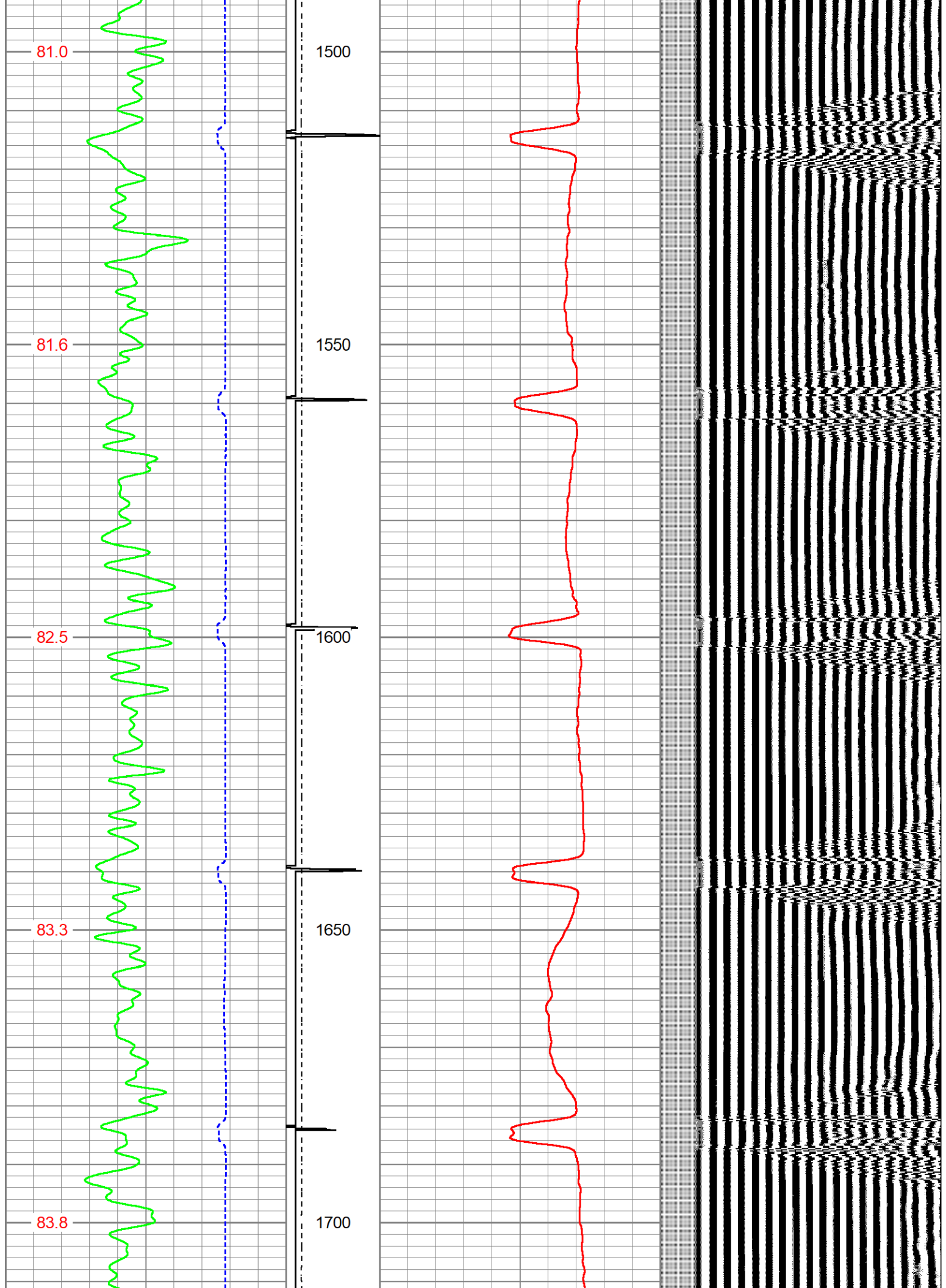


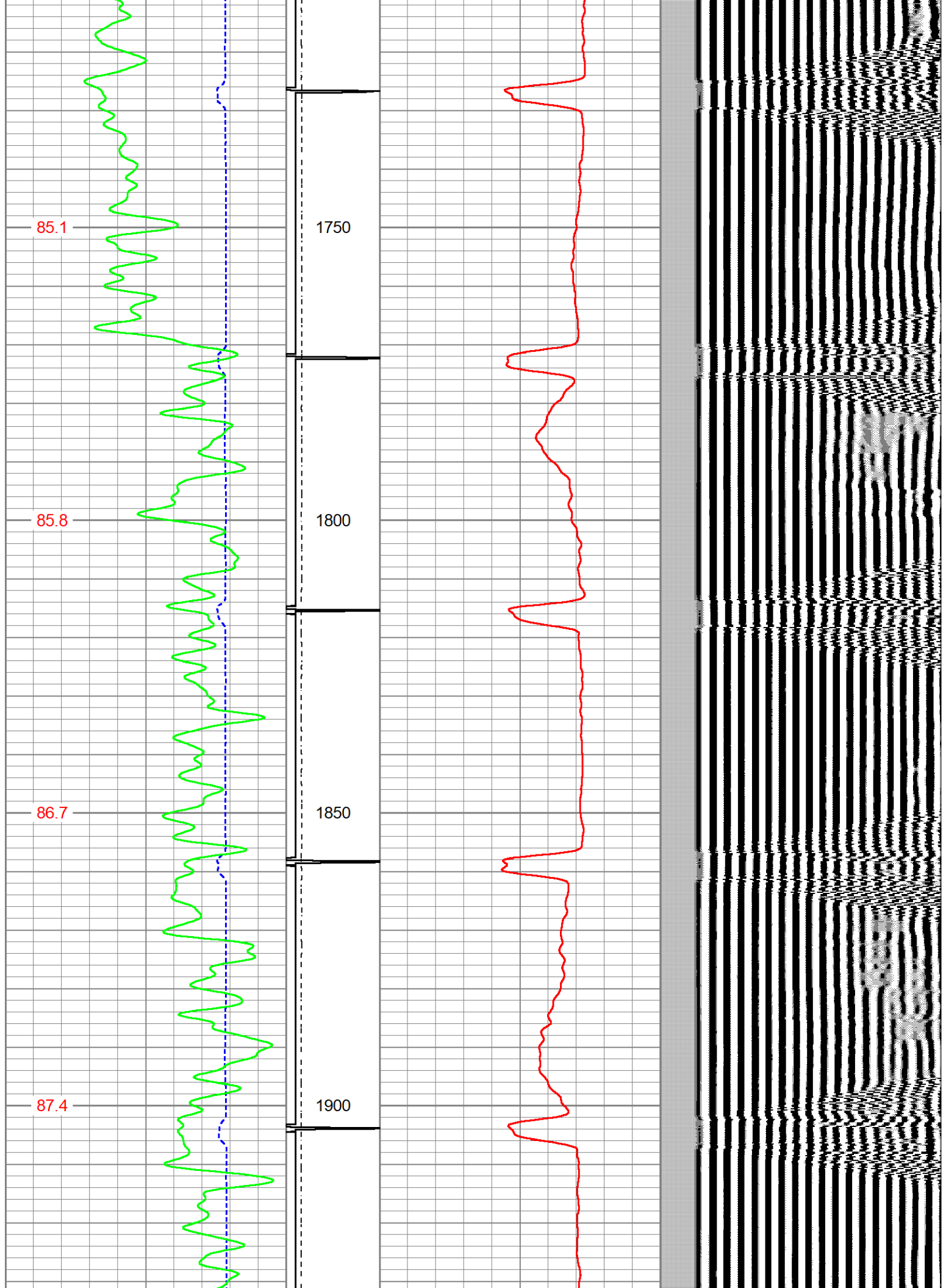


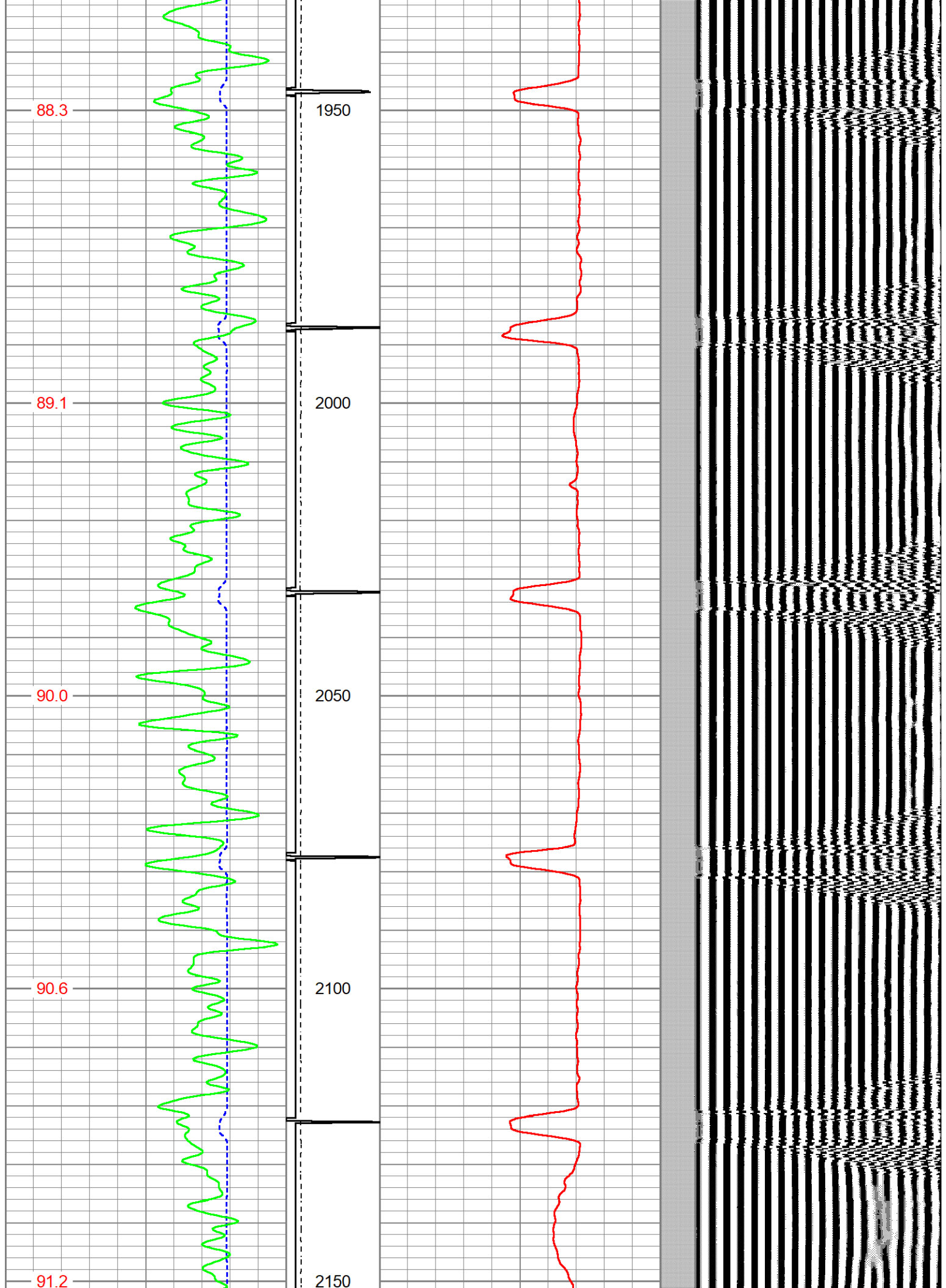


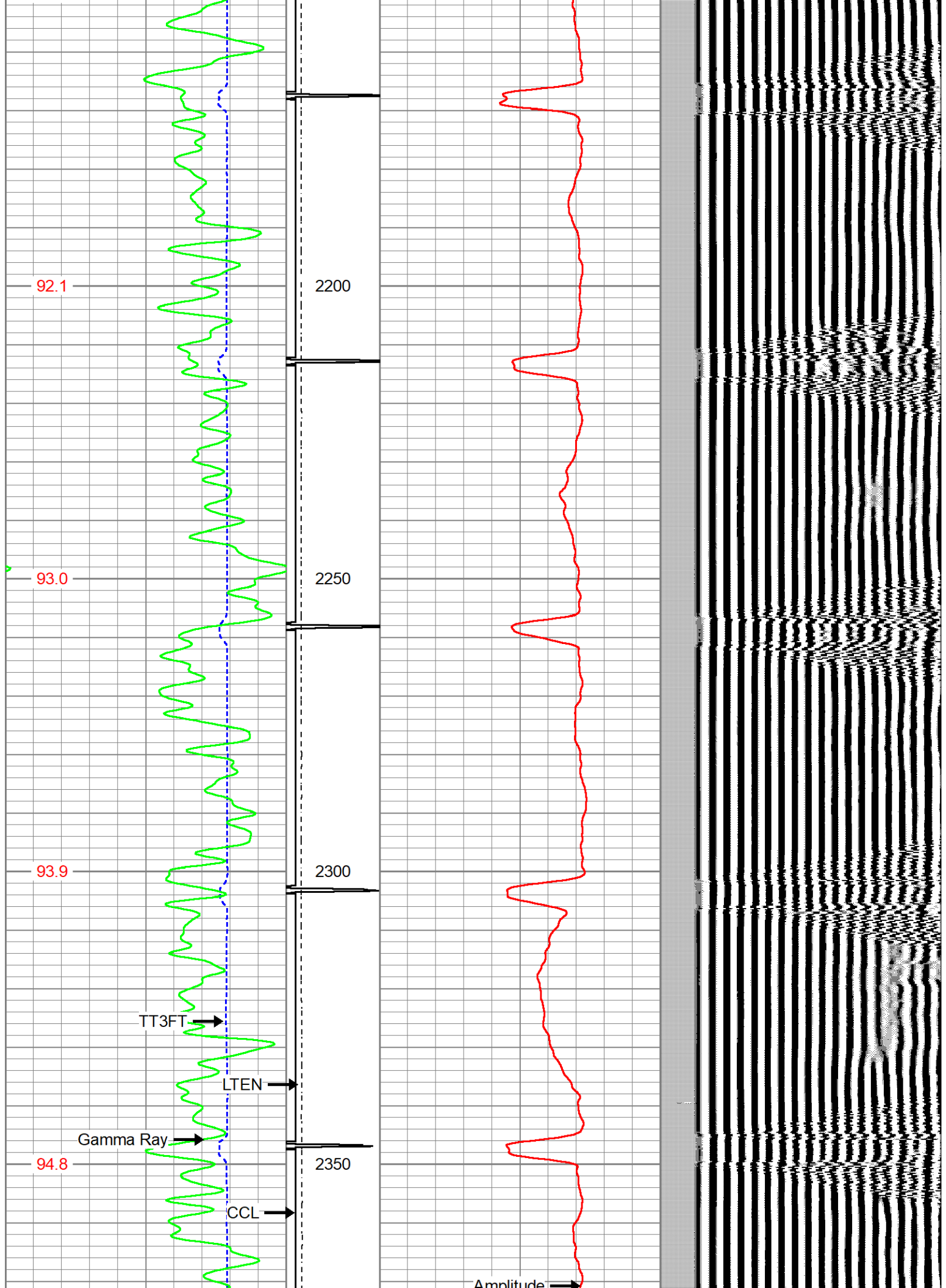


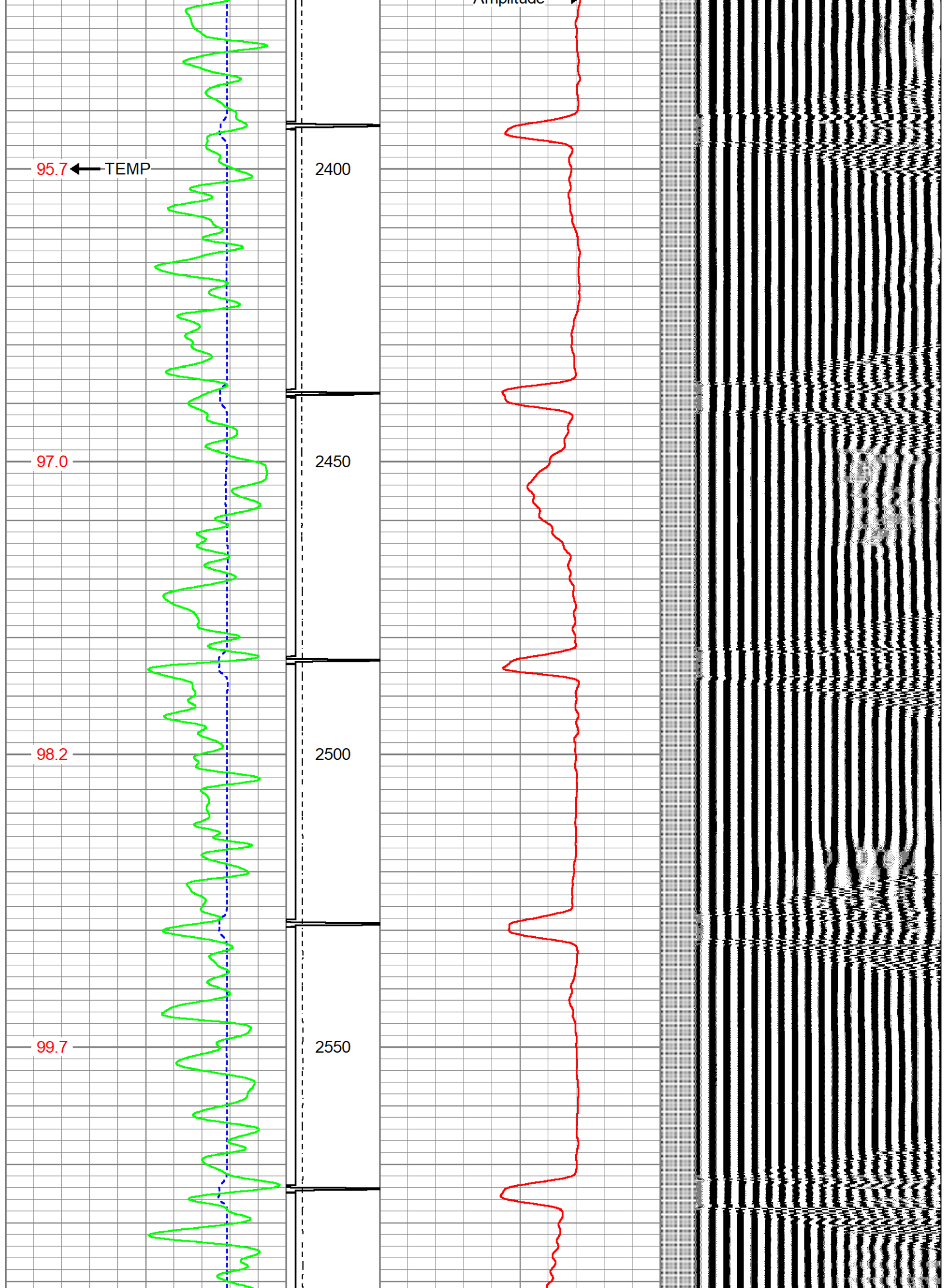


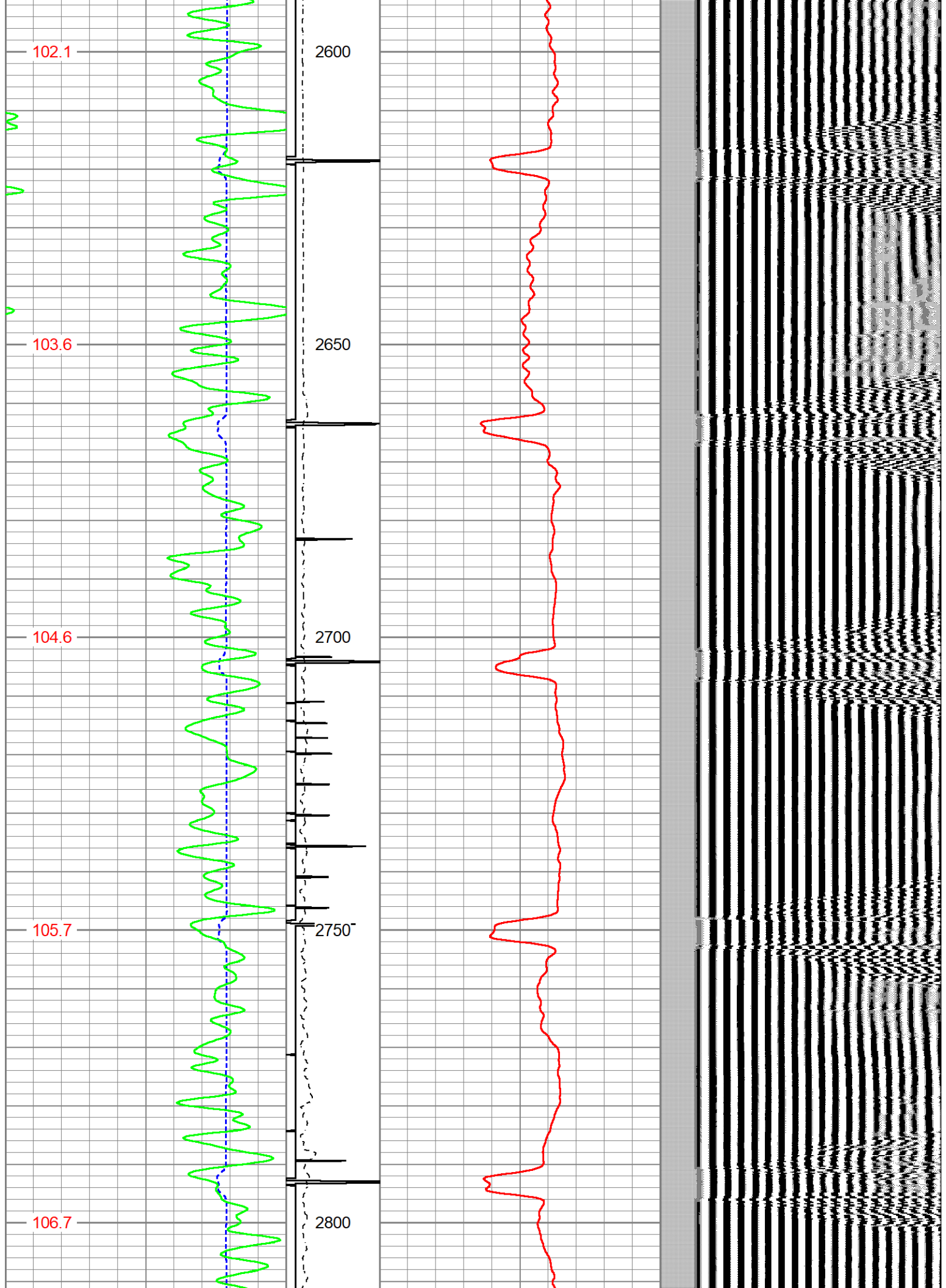


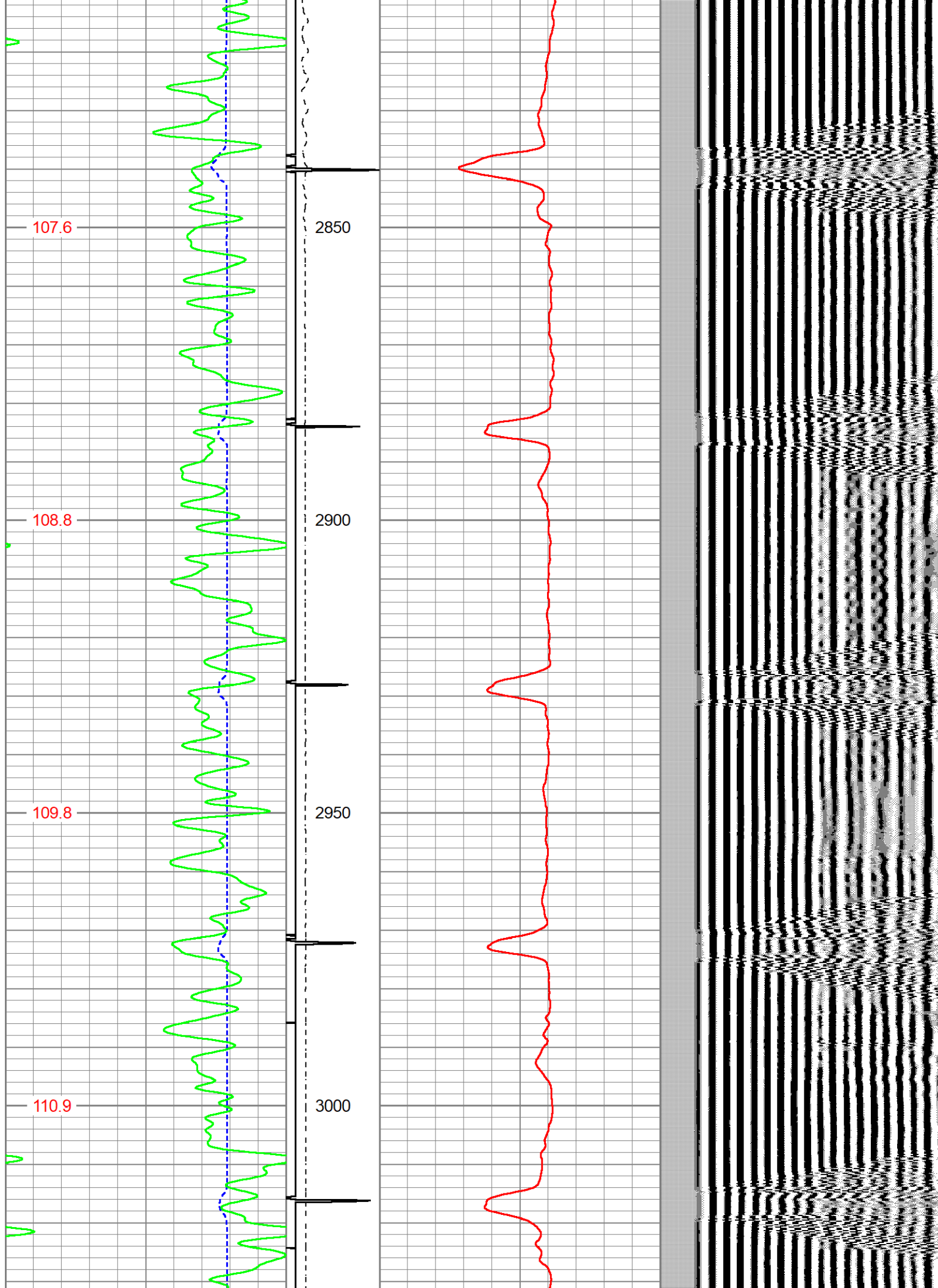


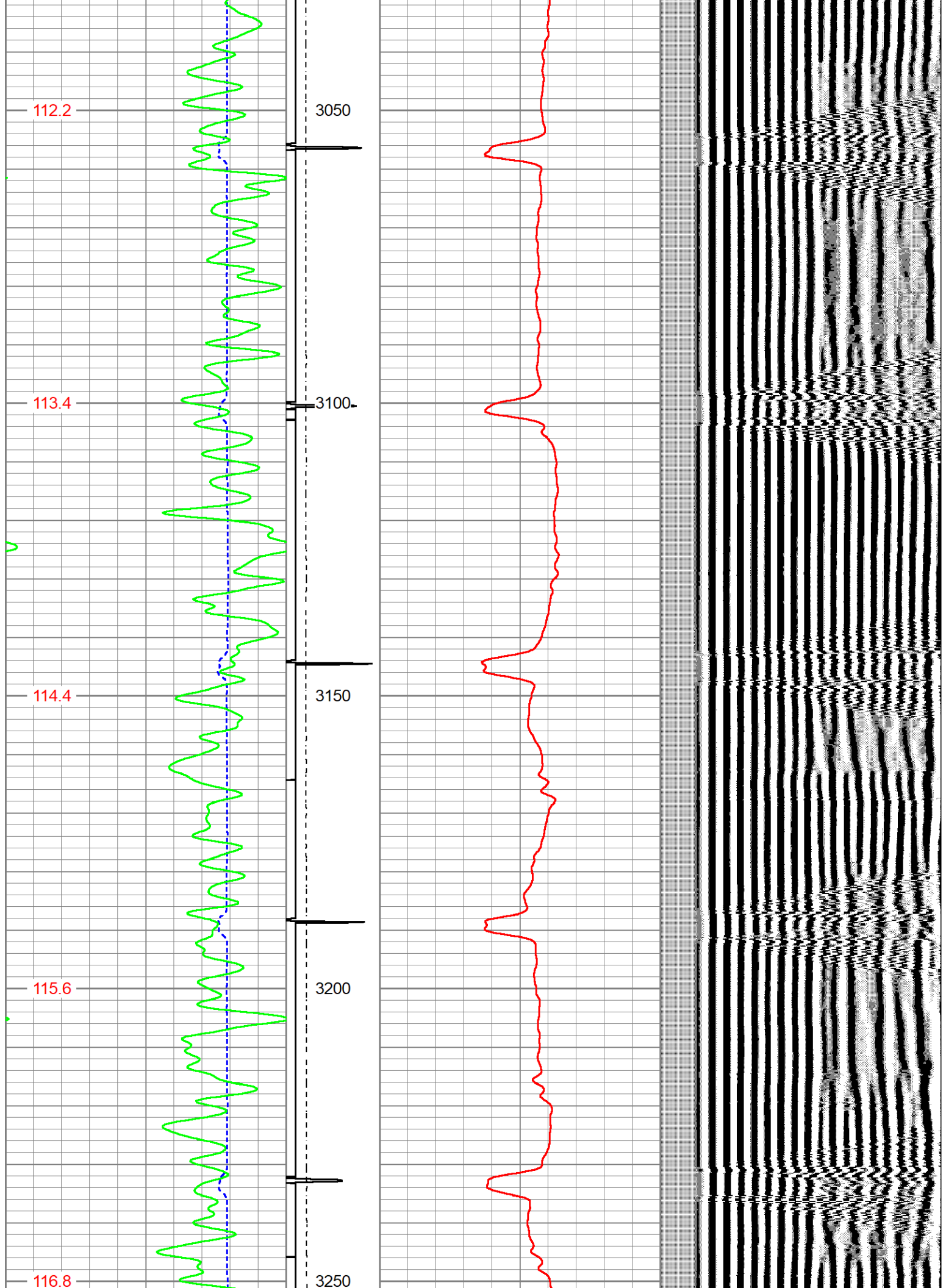


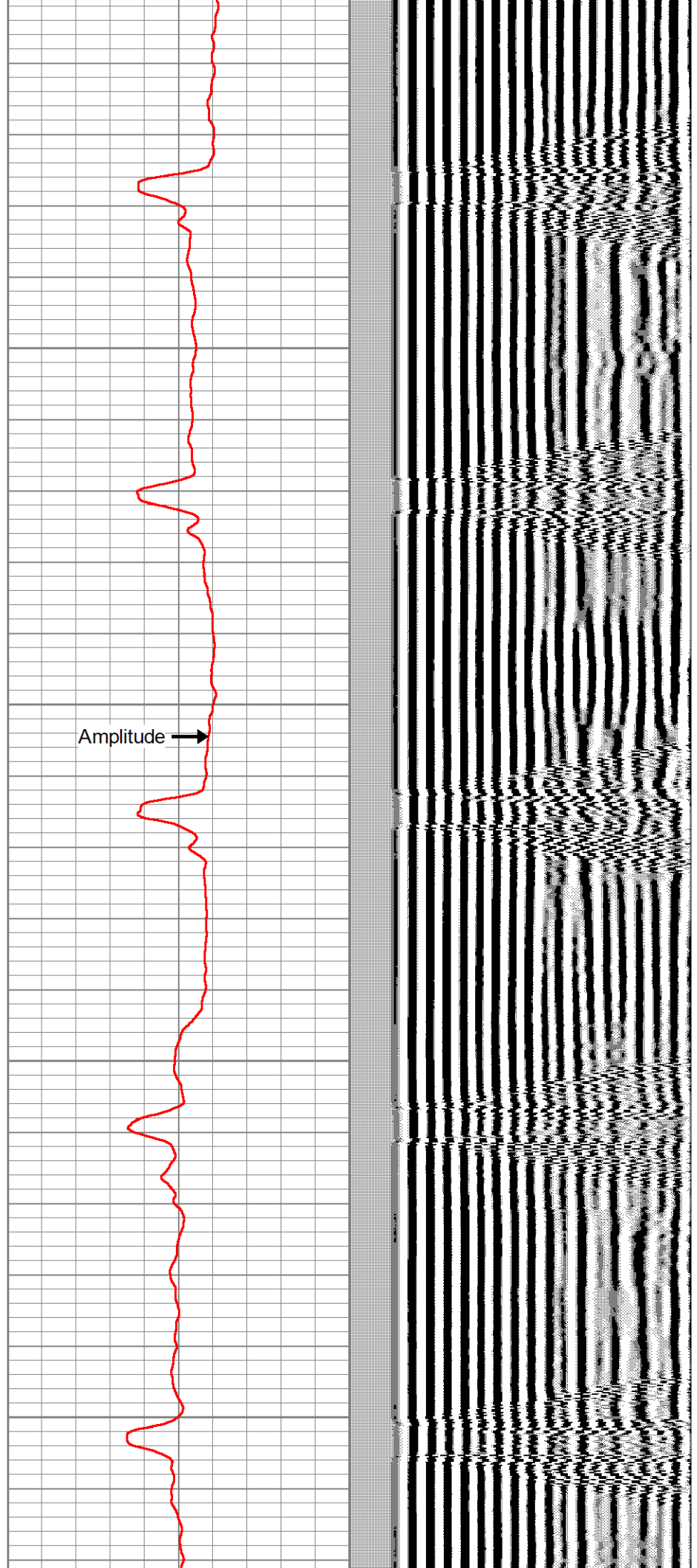
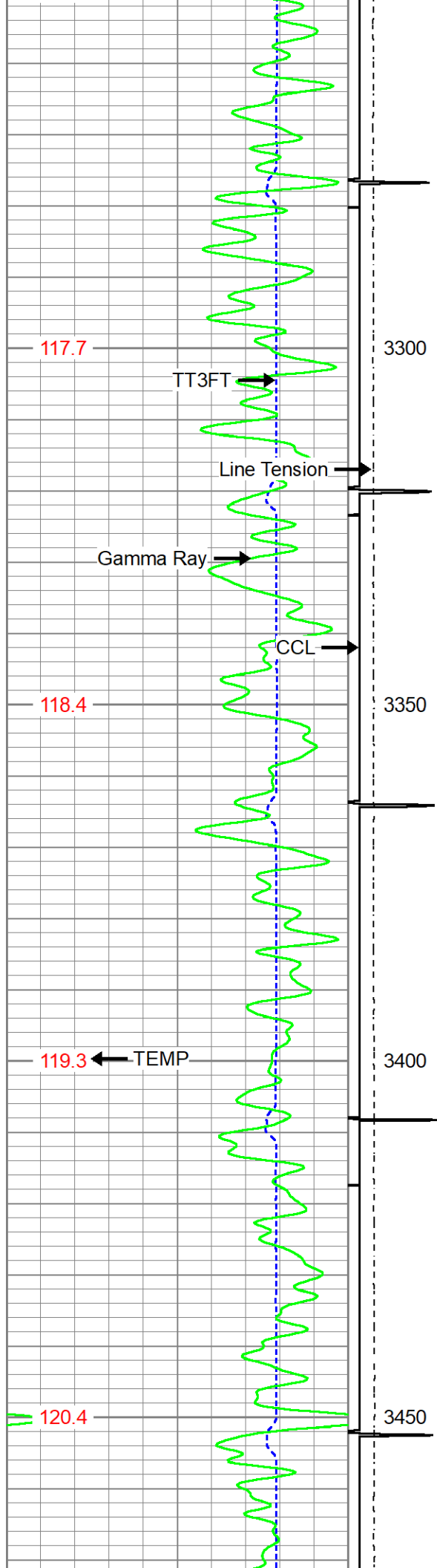


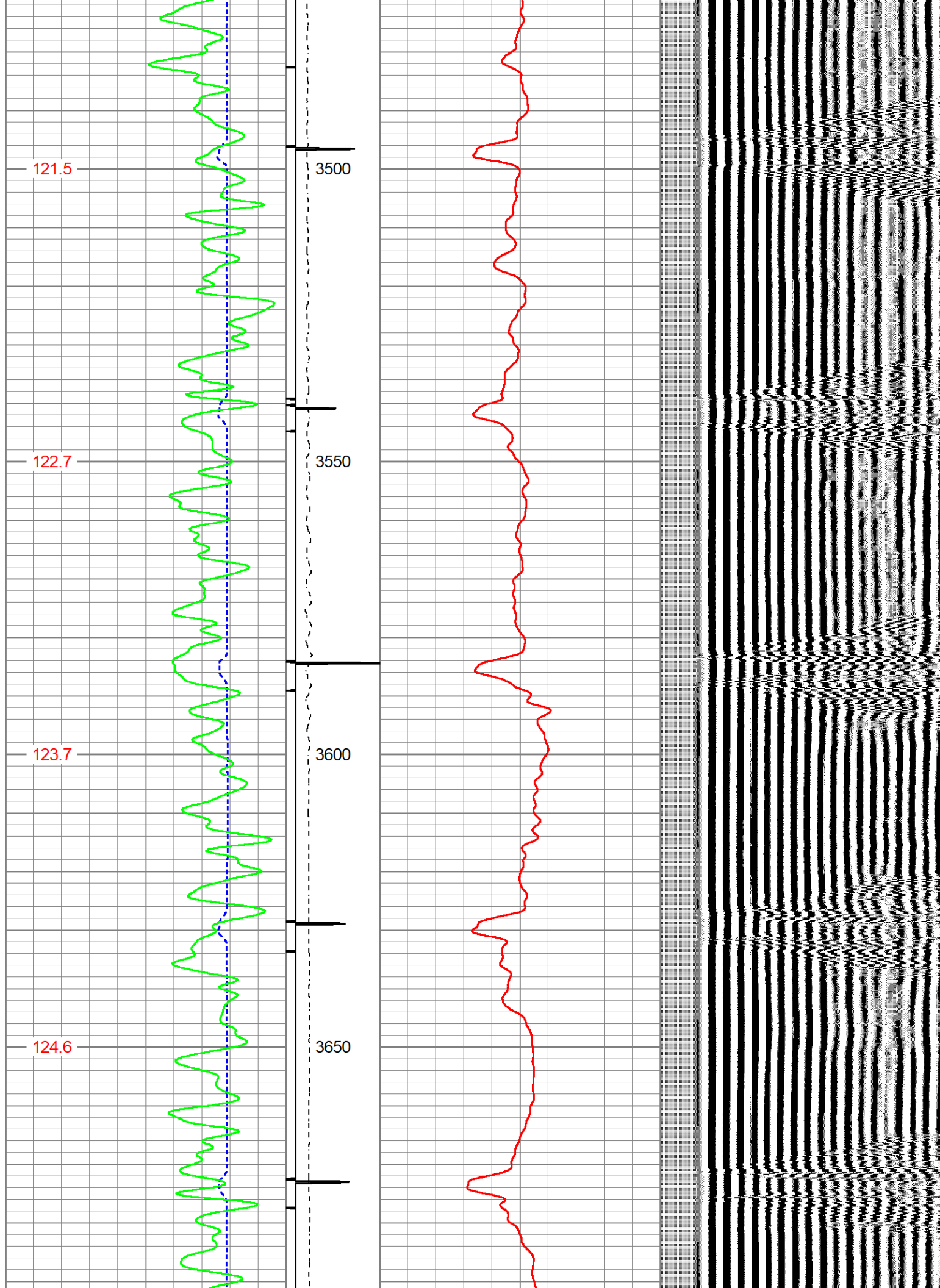


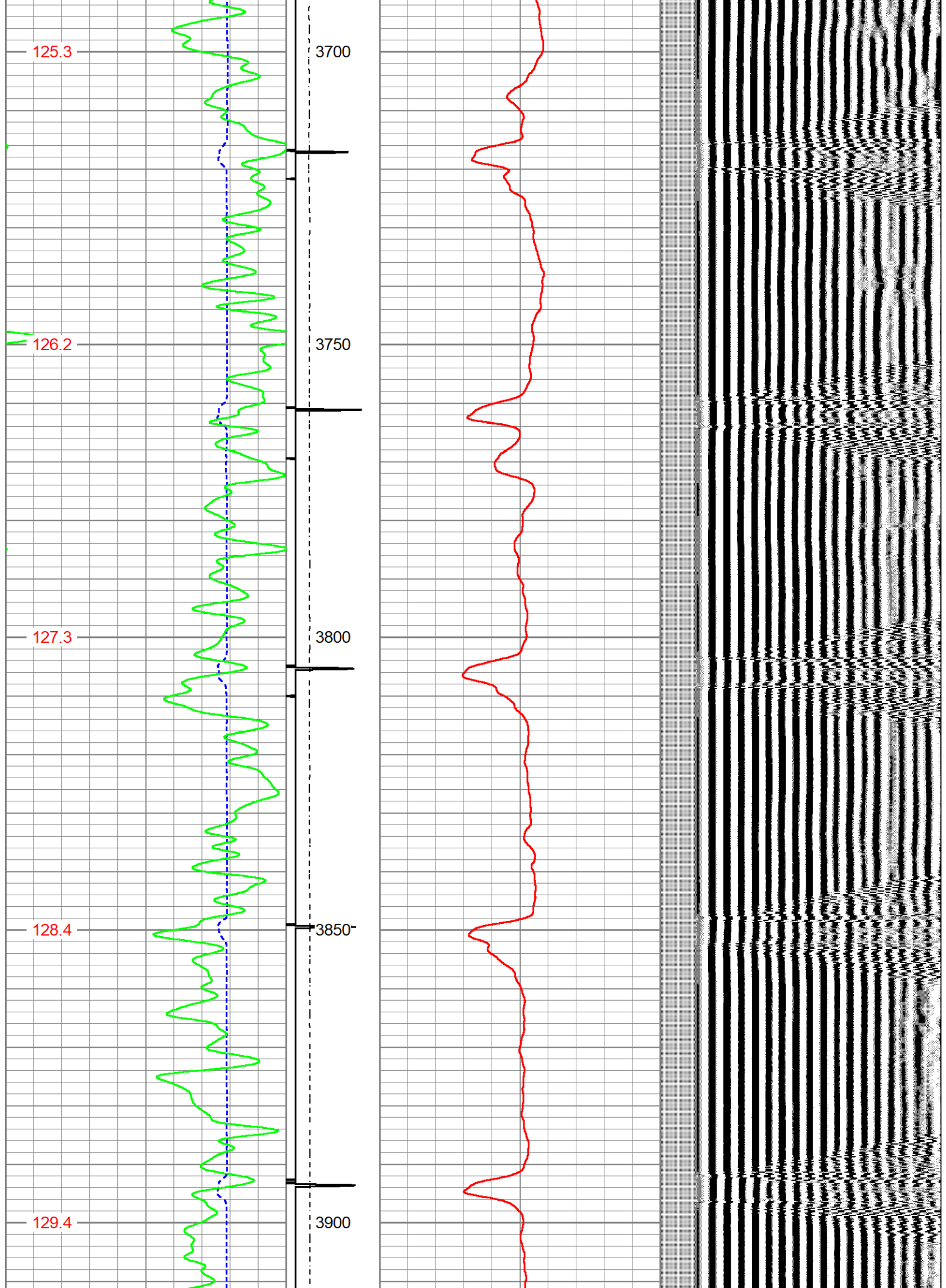


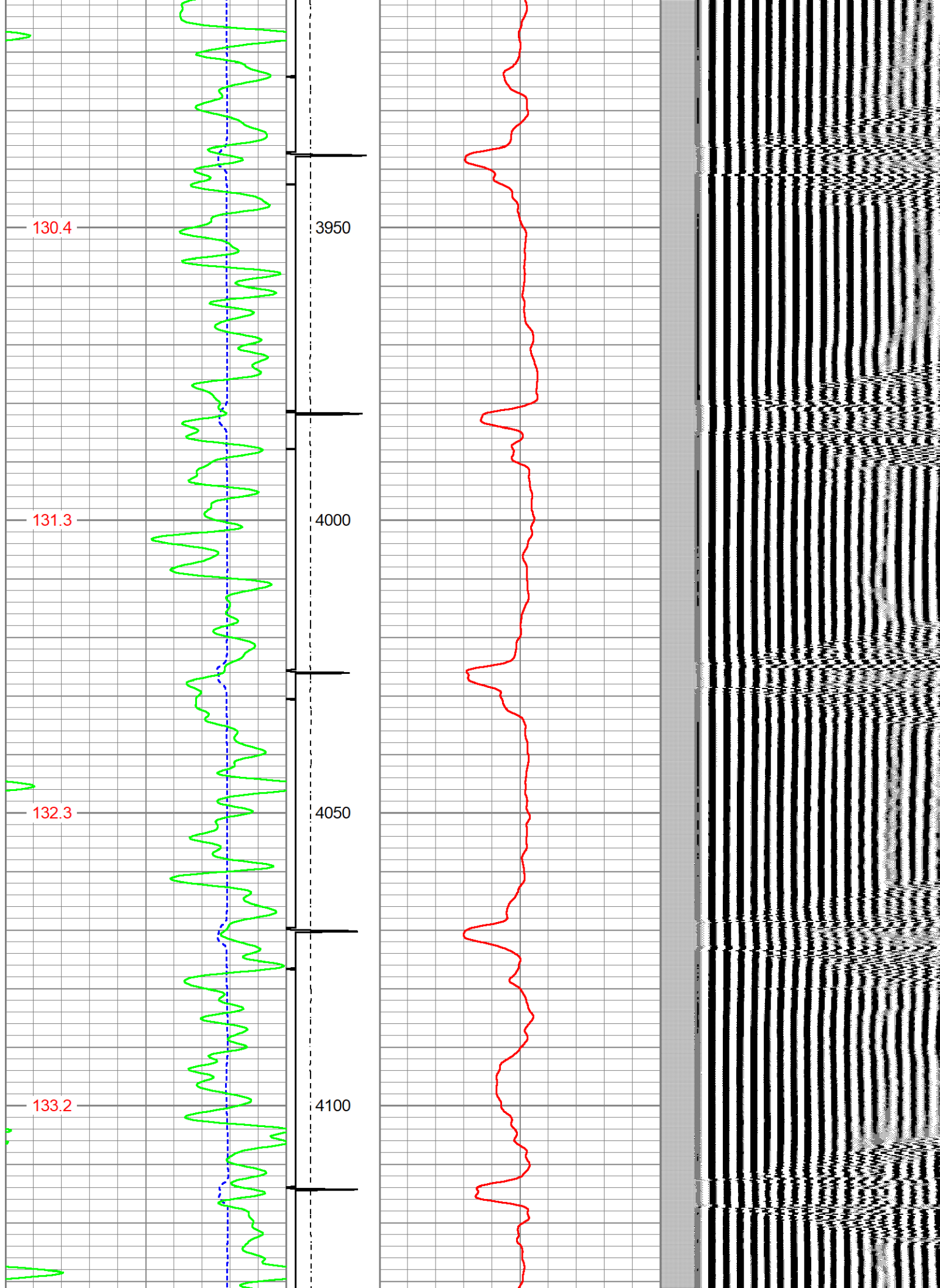


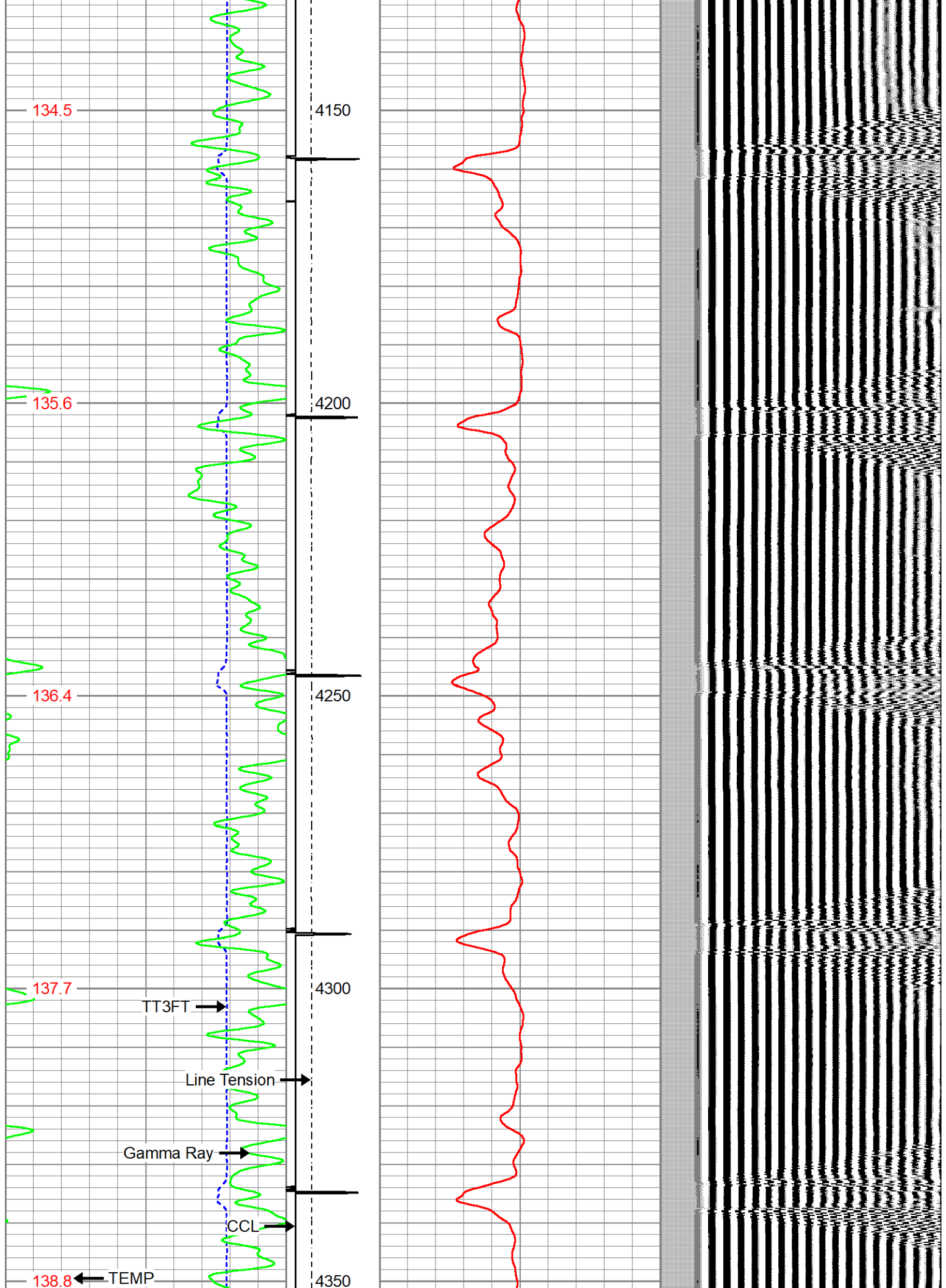


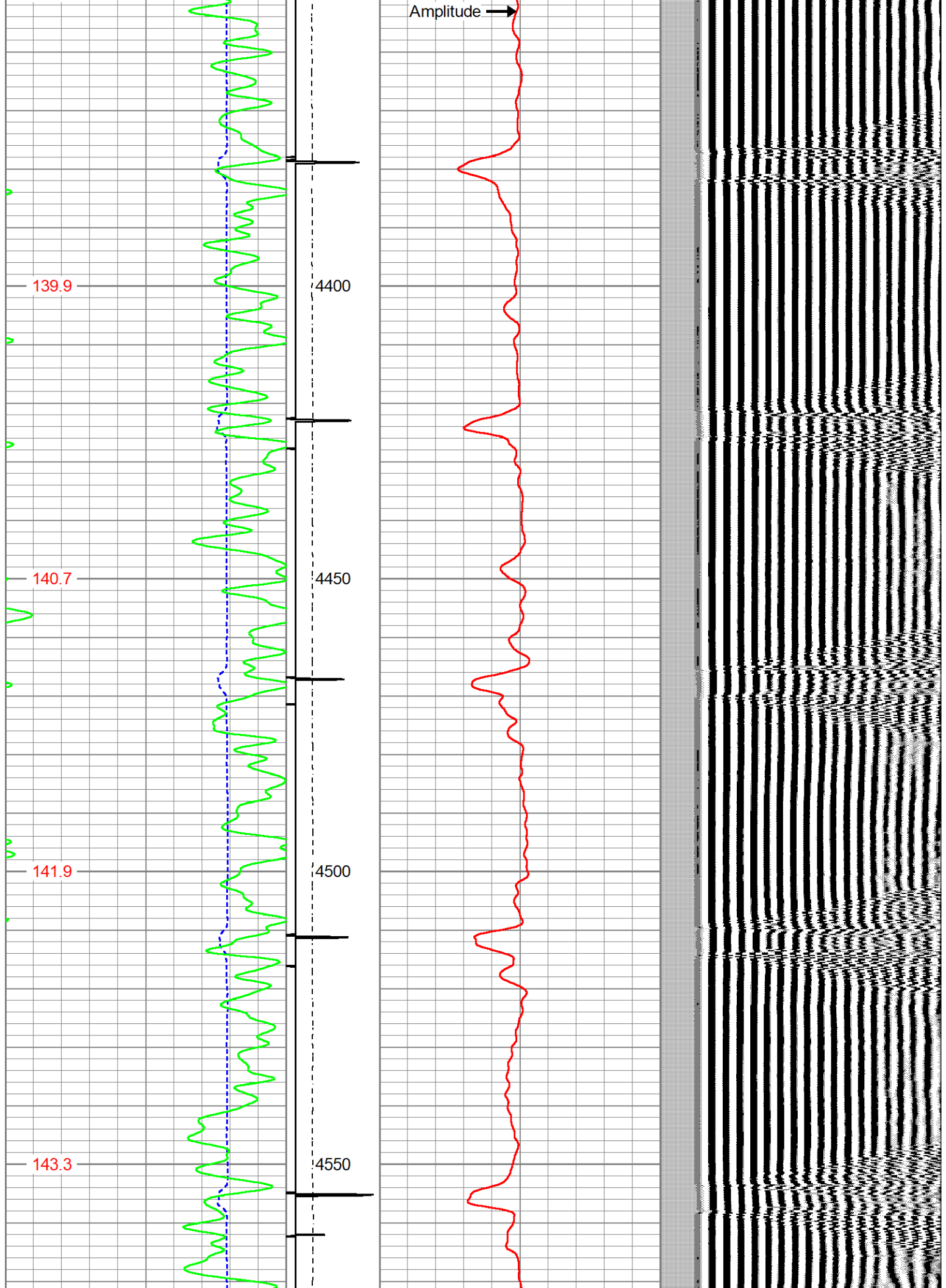


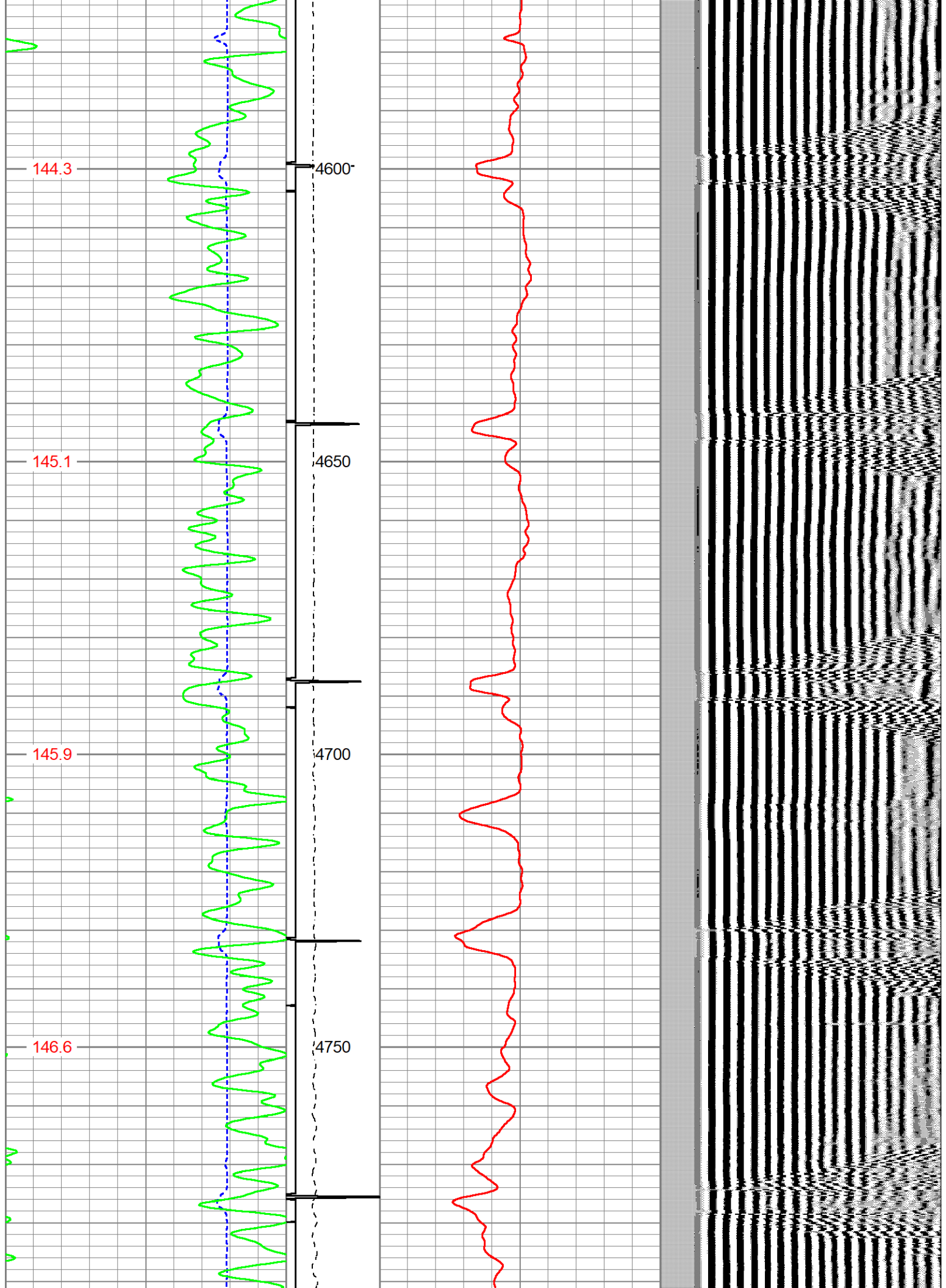


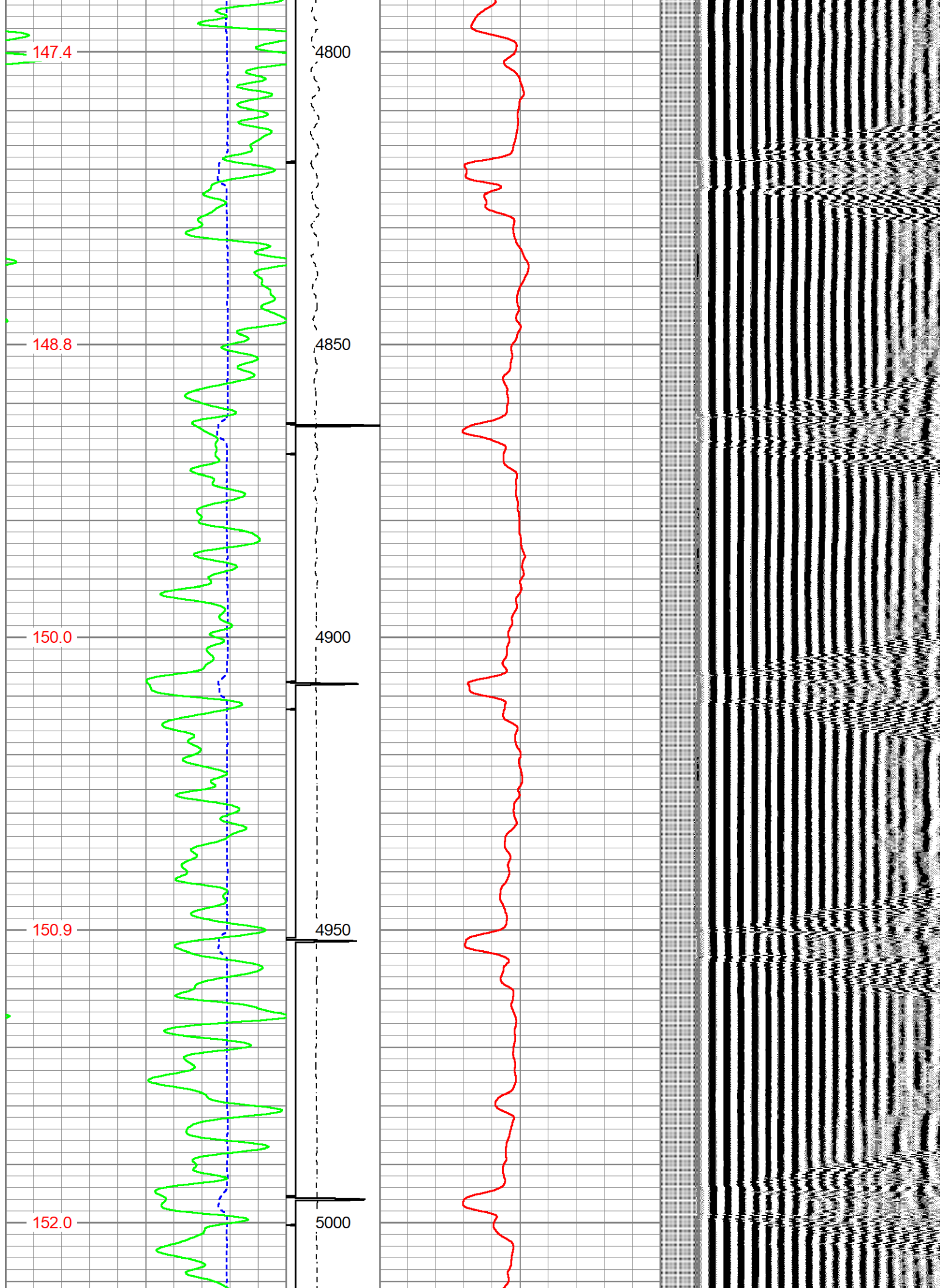


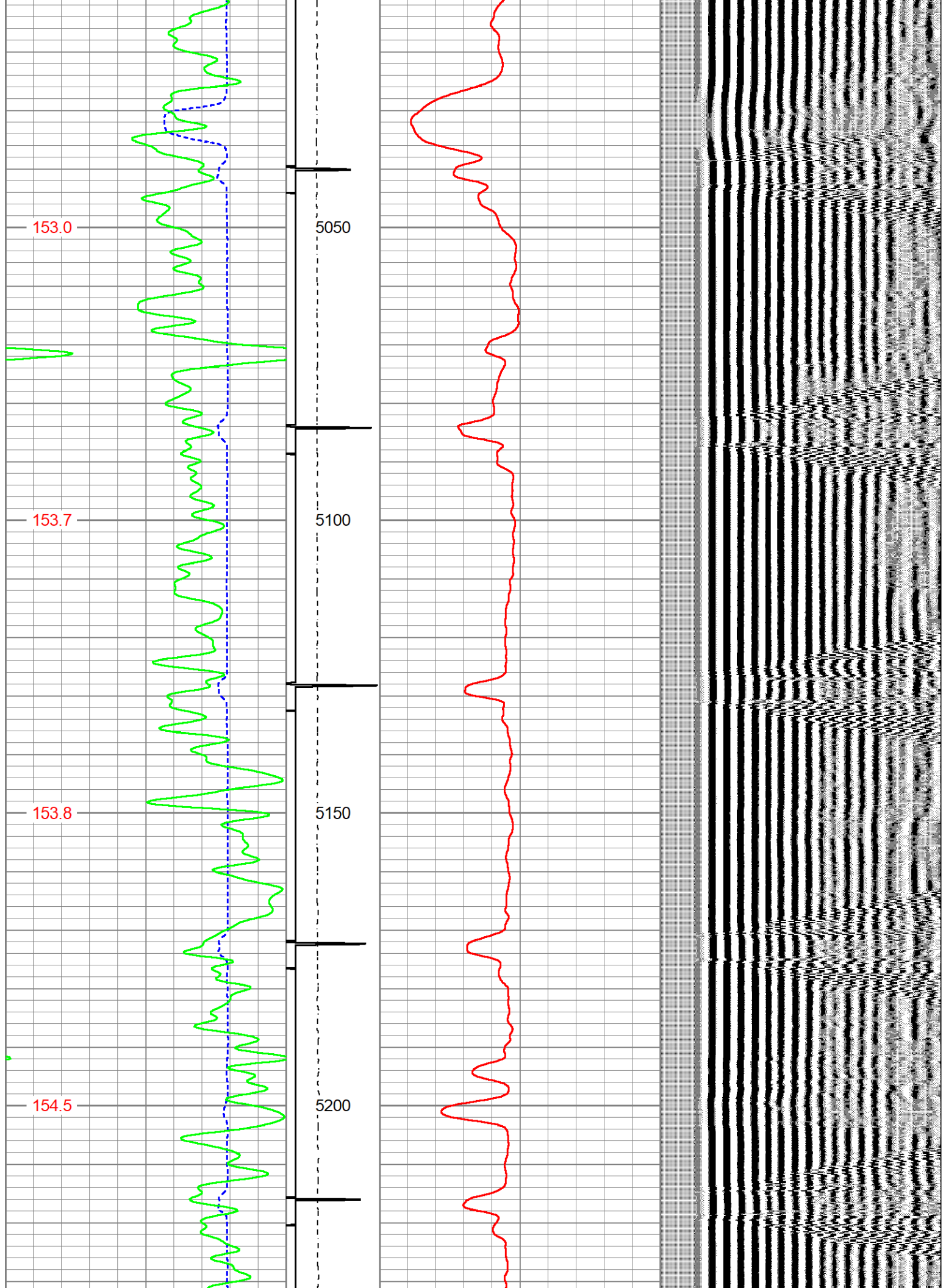


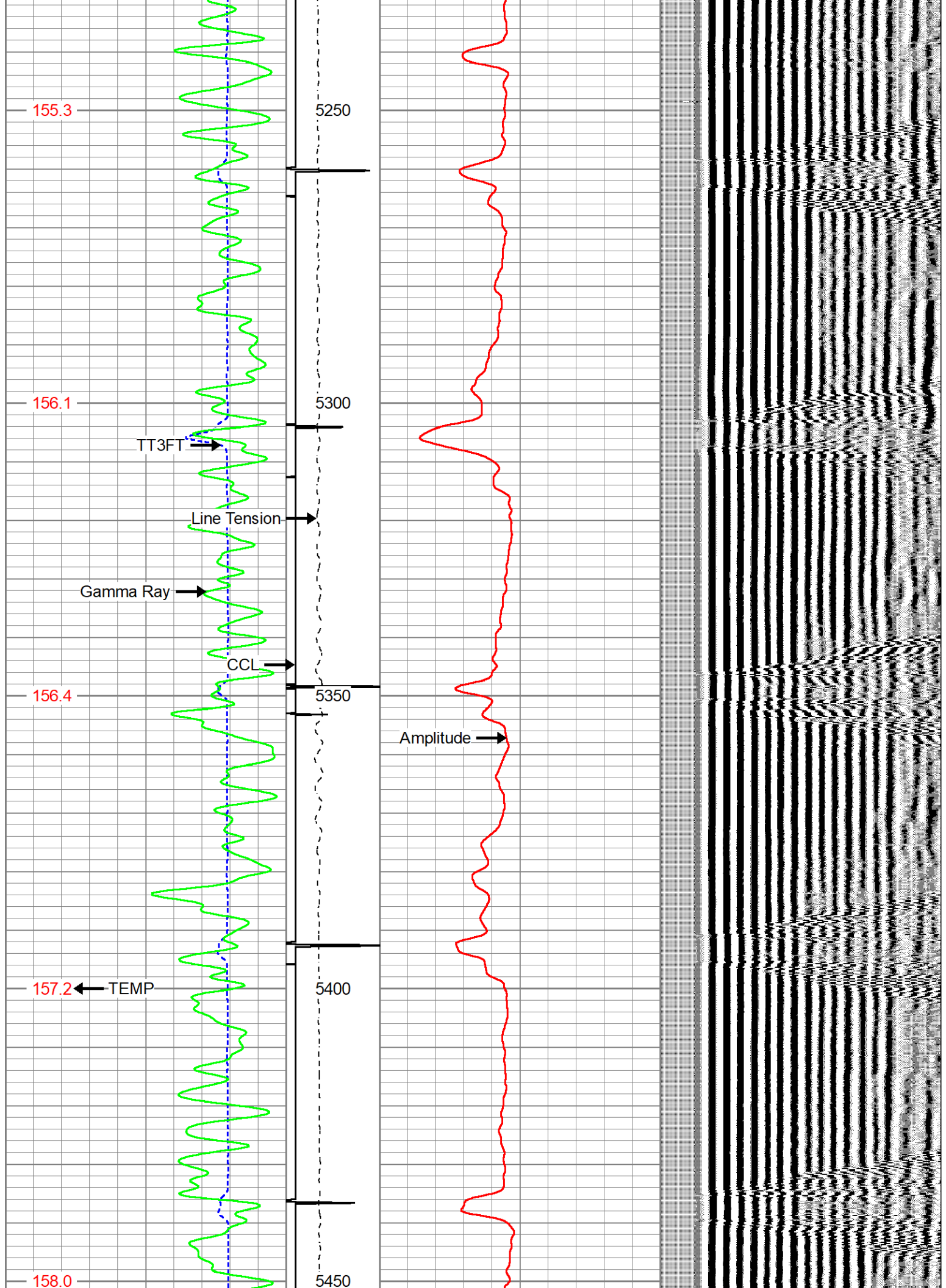


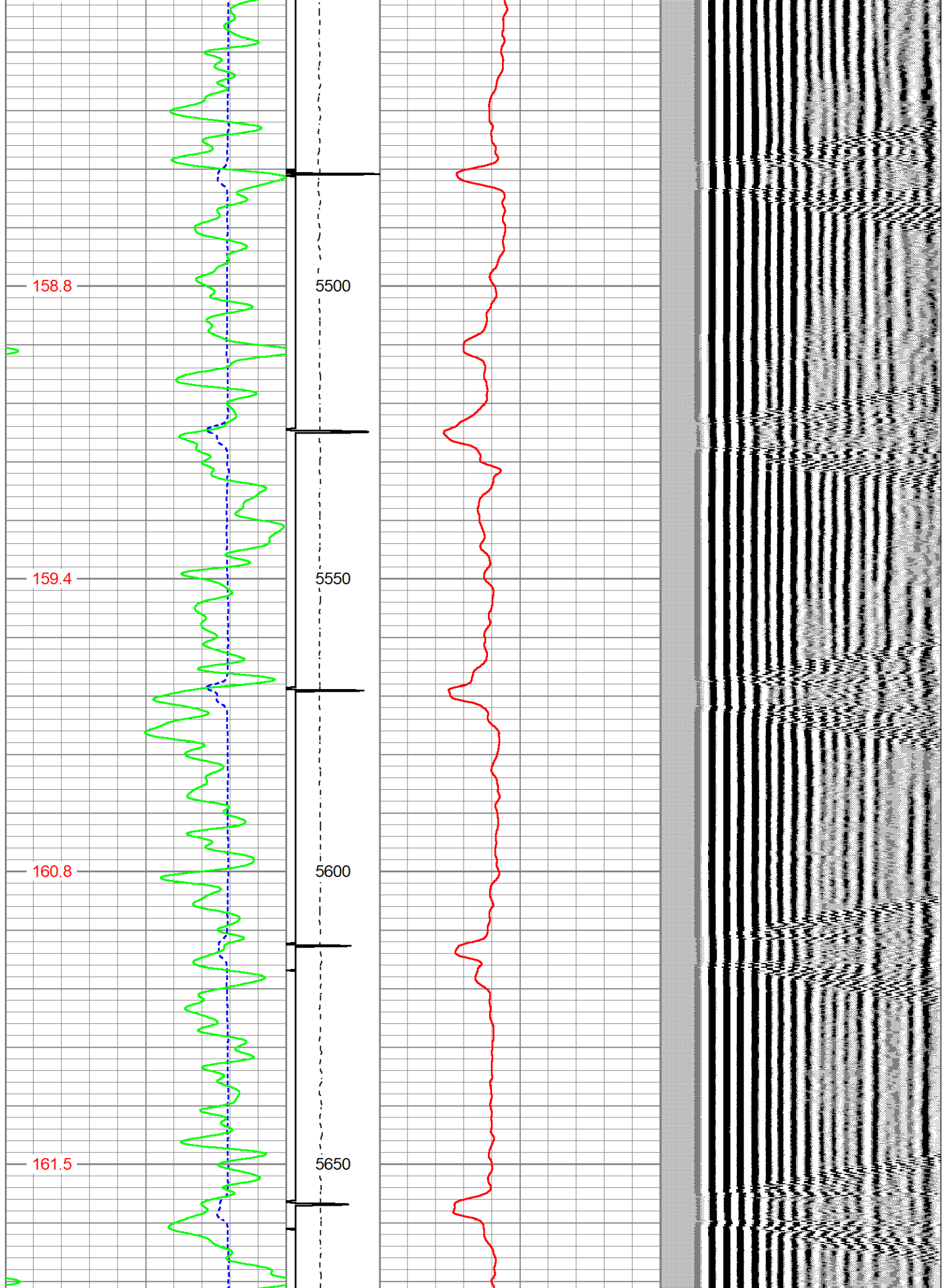


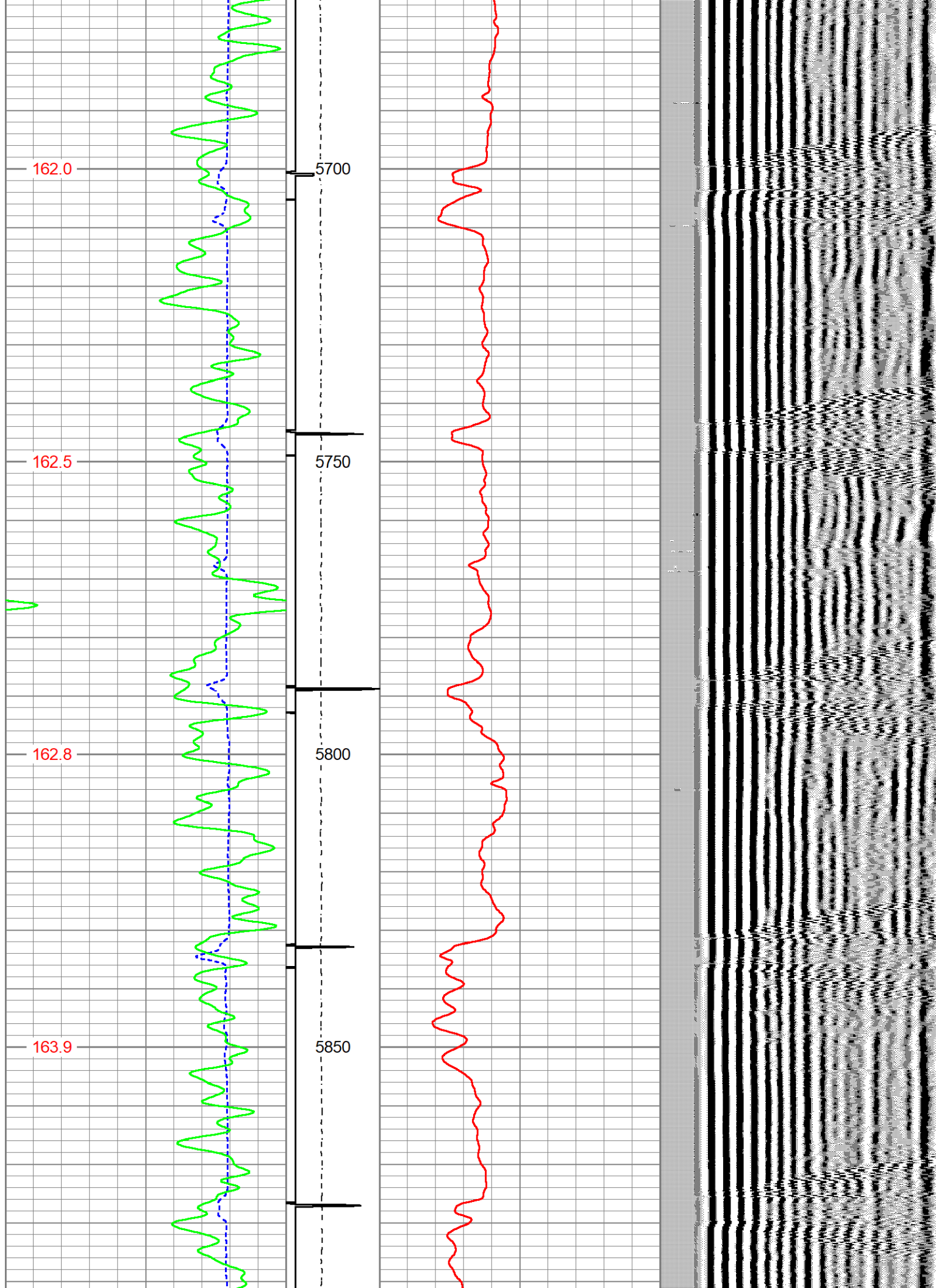


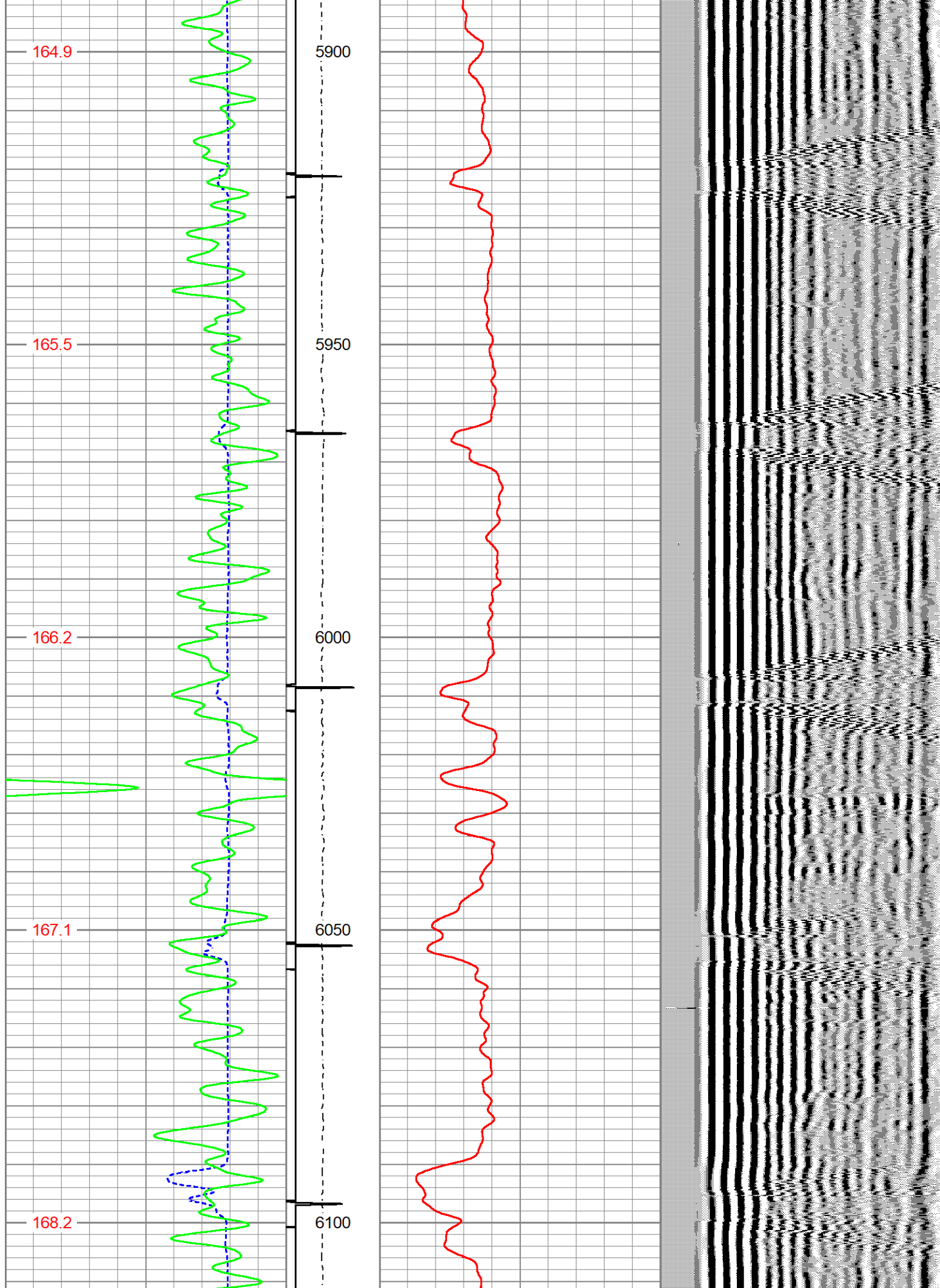


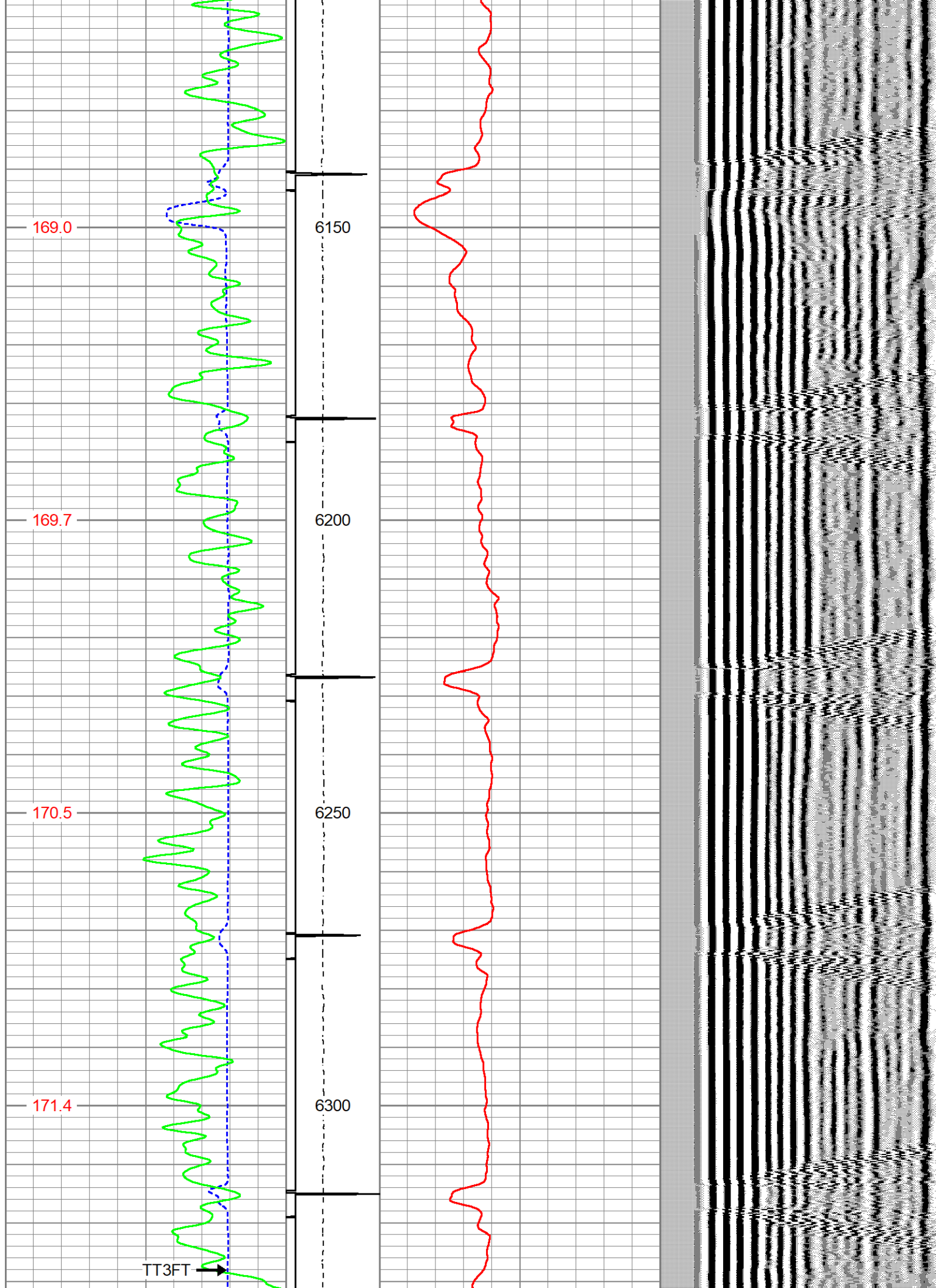


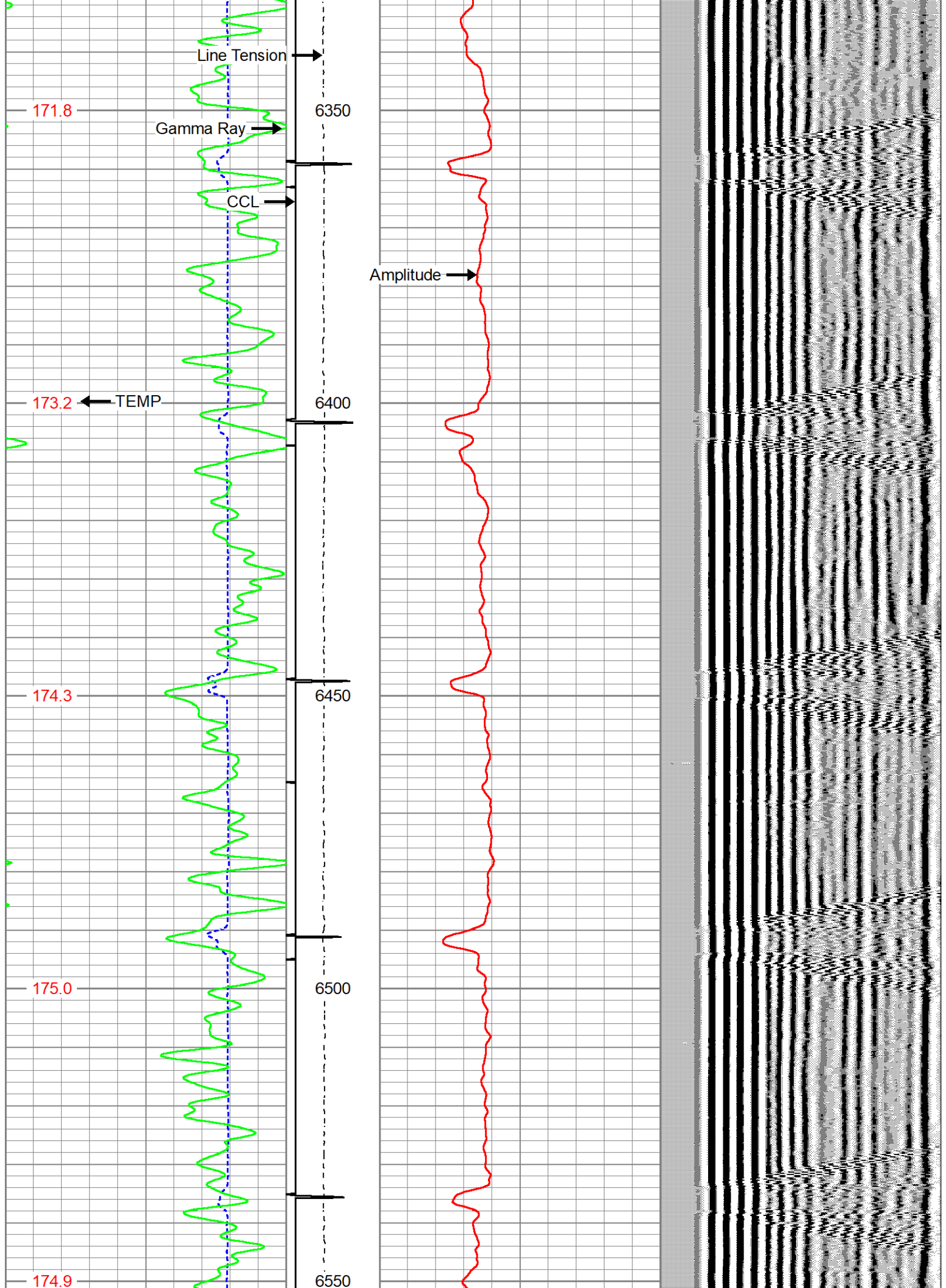


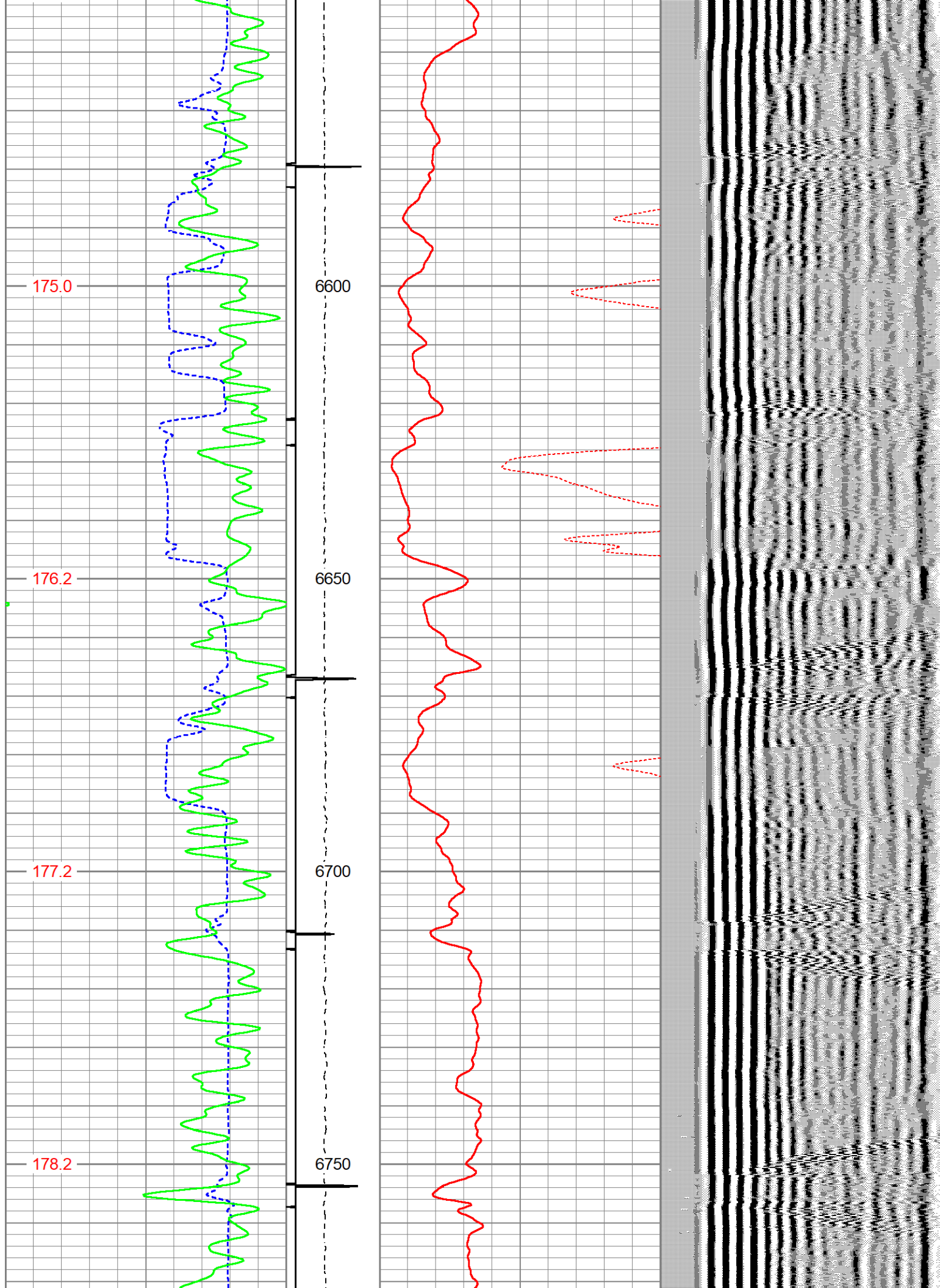


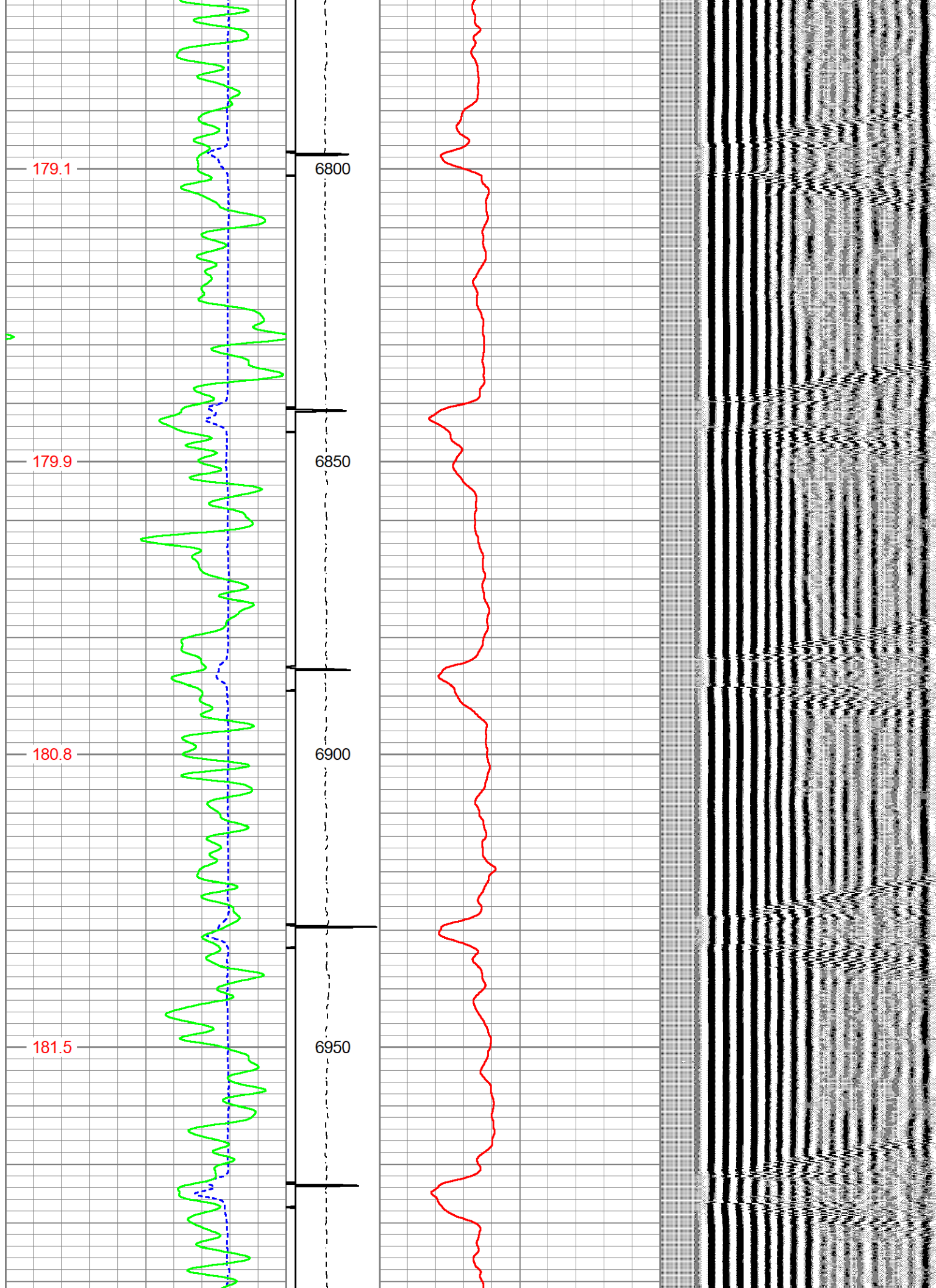


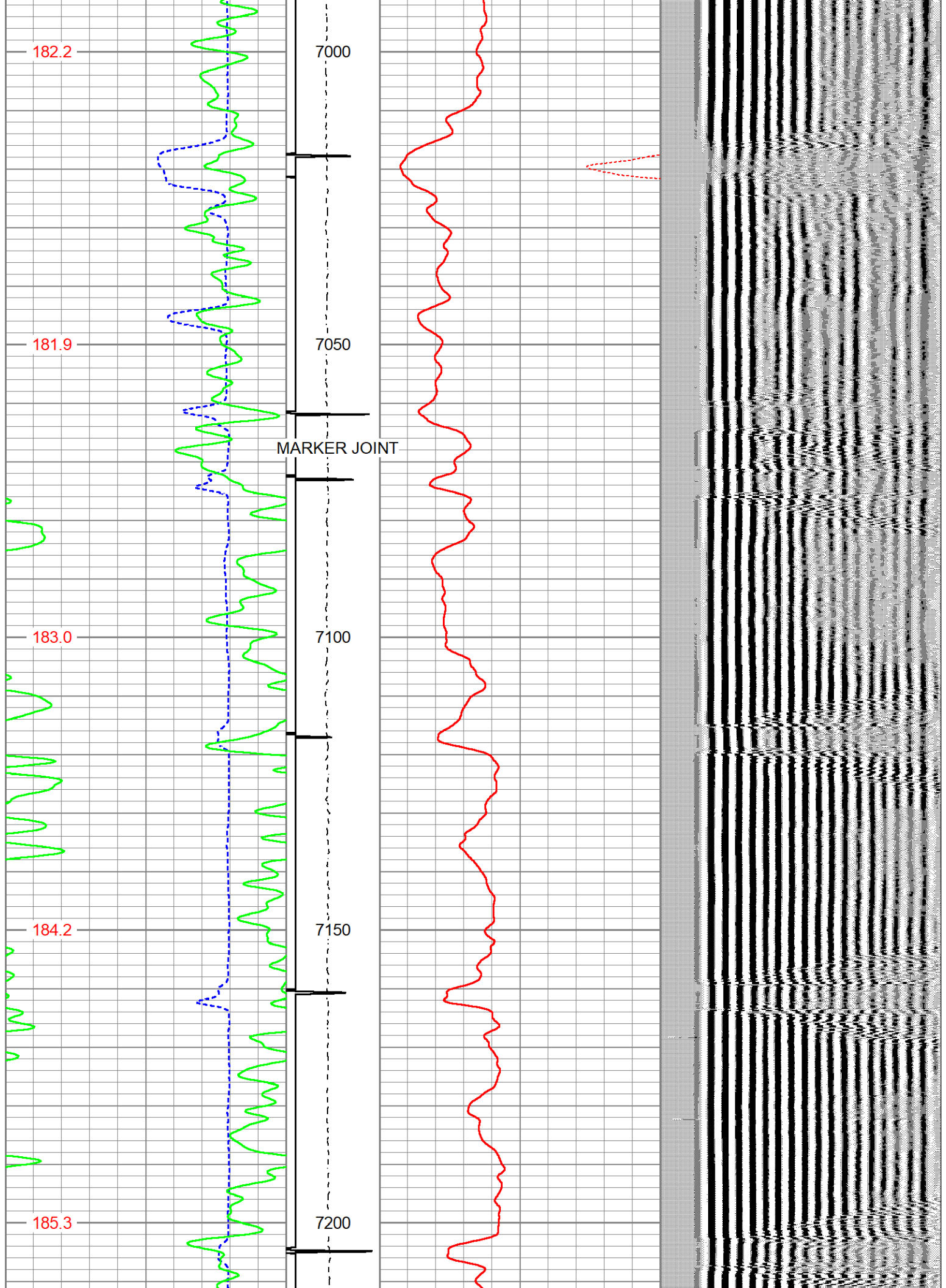


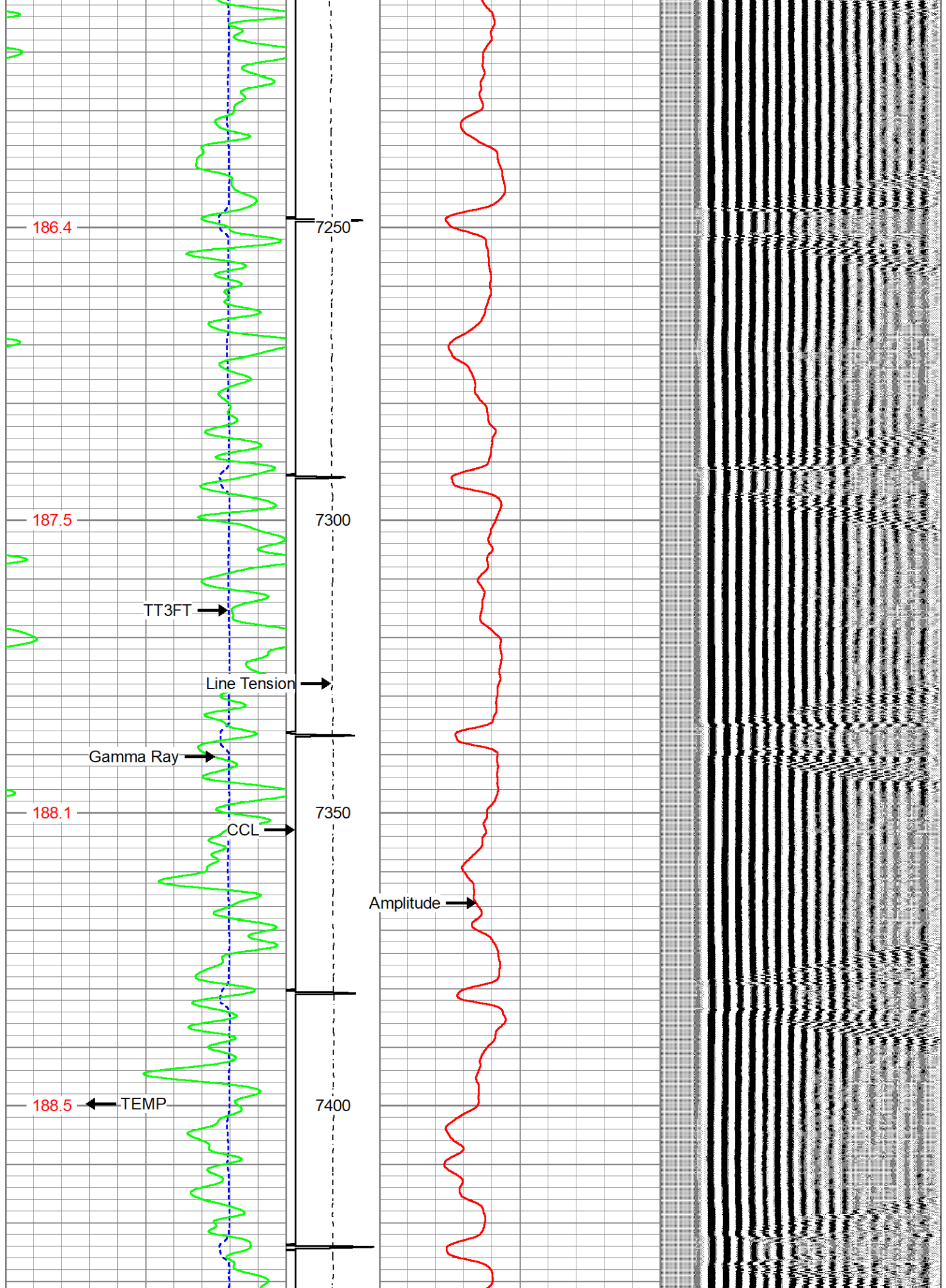


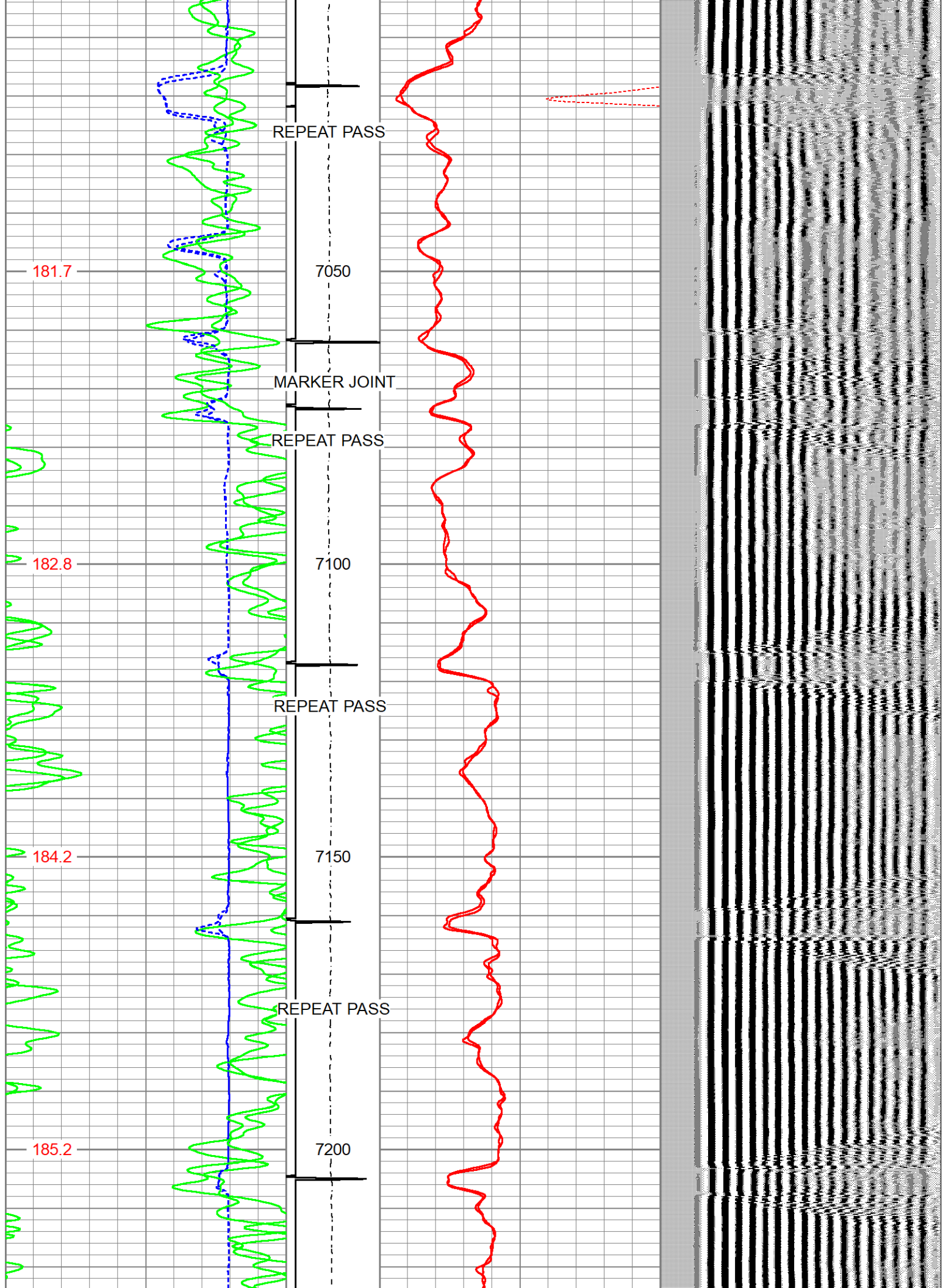


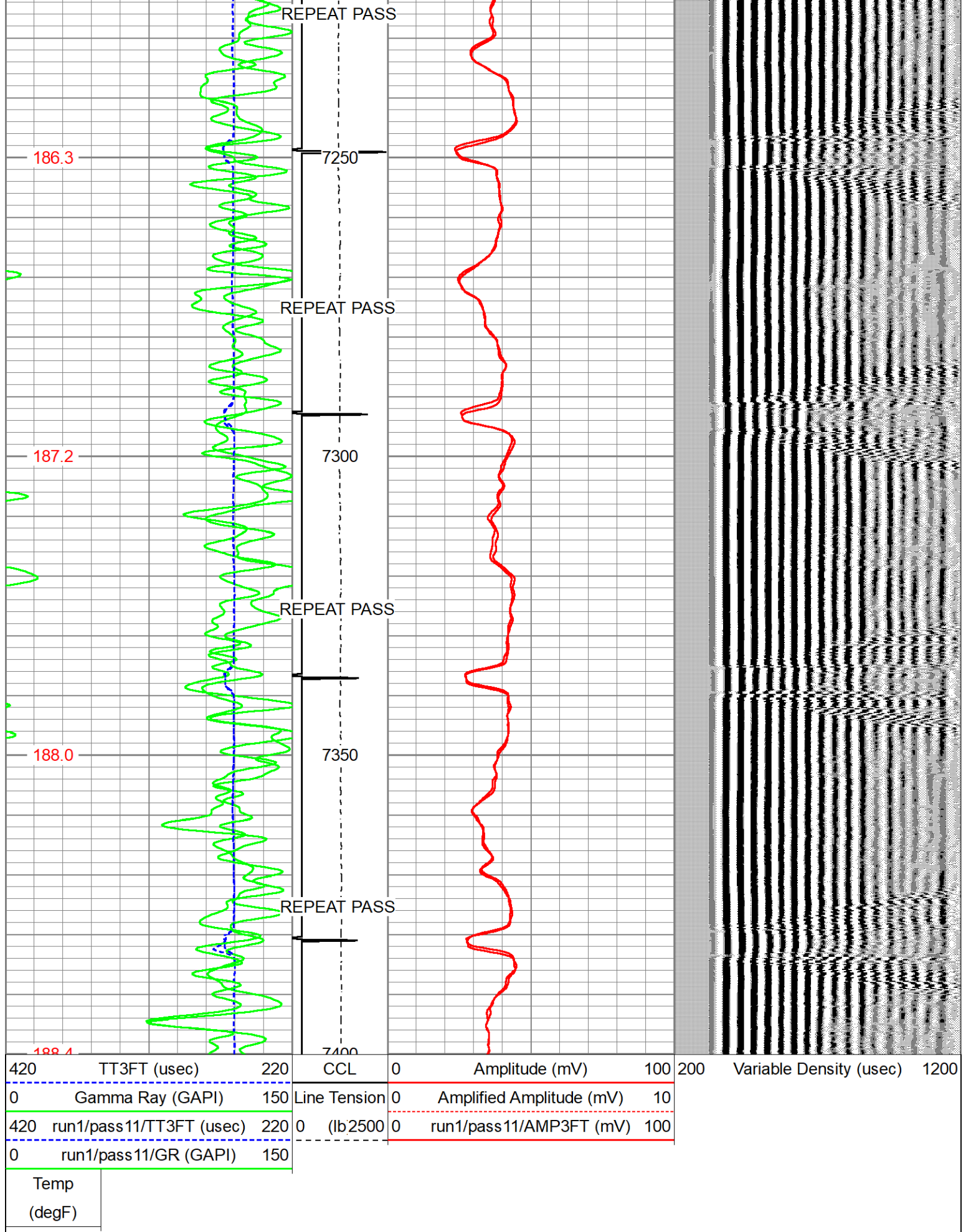












Log Variables

DatabaseC:\ProgramData\Warrior\Data\b_farm_ld_18-391hnx_6_apr_2019_4000psi_cbl.db
 Dataset field/391hx/run1/pass11/_vars_

Top - Bottom

BHTEMP_Src TEMP	BOREID in 7.875	BOTTEMP degF 235	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 17	MAXAMPL mV 71.9	MINAMPL mV 1
MINATTN db/ft 0.8	PERFS No	PPT usec 263	SRFTEMP degF 0	TDEPTH ft 0			

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude

MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File b_farm_Id_18-391hnx_6_apr1_2019_4000psi_cbl.db
Dataset Pathname 391hx/run1/pass11
Dataset Creation Sat Apr 06 21:42:19 2019

Gamma Ray Calibration Report

Serial Number: 081054
Tool Model: Probe
Performed: (Not Performed)

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1306-47
Tool Model: Probe 2.75 Radii W/Temp

Calibration Casing Diameter: 5.500 in
Calibration Depth: 676.908 ft

Master Calibration, performed Sat Apr 06 21:05:04 2019:


	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	0.368	1.000	72.000	196.830	-0.449
CAL	0.008	0.581				
5'	0.006	0.381	1.000	72.000	189.630	-0.185
SUM						
S1	0.047	0.381	0.000	72.000	215.280	-10.120
S2	0.006	0.362	0.000	72.000	202.306	-1.163
S3	0.009	0.385	0.000	72.000	191.757	-1.807
S4	0.009	0.396	0.000	72.000	186.199	-1.718
S5	0.009	0.414	0.000	72.000	178.012	-1.617
S6	0.009	0.396	0.000	72.000	186.088	-1.695
S7	0.009	0.369	0.000	72.000	199.940	-1.728
S8	0.032	0.355	0.000	72.000	222.954	-7.041


Internal Reference Calibration, performed (Not Performed):


	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.581	1.000	0.000

Air Zero Calibration, performed Mon Mar 25 06:30:30 2019:

	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	13.67		CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
Temp	10.82		RBT-Probe 2.75 Radii W/Temp (FW1306-49.39) Probe 2.75" Radial with Integral Temperature Sub		2.75	90.00
WVFS8	8.58					
WVFS7	8.58					
WVFS6	8.58					
WVFS5	8.58					
WVFS4	8.58					
WVFS3	8.58					
WVFS2	8.58					
WVFS1	8.58					
WVFCAL	8.58					
WVFF3FT	8.58					

WVF5FT	7.58				
HEADVOLT	4.33				
CCL	3.64				
GR	0.90		4.33	2.75	30.00
Dataset: b_farm_ld_18-391hnx_6_apr1_2019_4000psi_cbl.db: field/391hx/run1/pass11 Total length: 14.73 ft Total weight: 125.00 lb O.D.: 2.75 in					

	Company	Great Western	
	Well	B FARM LD 18-391HNX	
	Field	Wattenberg	
	County	ADAMS	
	State	Colorado	Country