



CEMENT BOND LOG
GAMMA RAY CCL VDL

Company EXTRACTION OIL & GAS INC.

Well HIPPEN 2-32

Field WATTENBERG

County WELD State COLORADO

Location: API #: 05-123-15113

NWSW

SEC 32 TWP 1N RGE 68W

Permanent Datum GL
Log Measured From KB
Drilling Measured From KB

Elevation 5,181'
K.B. 5,194'
D.F.
G.L. 5,181'

Other Services
NONE

Date 25 OCT 2019

Run Number ONE

Depth Driller

Depth Logger 7,318'

Bottom Logged Interval 7,316'

Top Log Interval SURFACE

Open Hole Size 7-7/8"

Type Fluid WATER

Density / Viscosity

Max. Recorded Temp. N/A

Estimated Cement Top SEE LOG

Time Well Ready ROA

Time Logger on Bottom 14.15

Equipment Number 65

Location PLATTEVILLE, CO

Recorded By B. TURNBULL

Witnessed By N. SCOTT

Run Number

Bit From To

Size

Weight

From To

Size

Weight

From To

Size

Weight

Size 8-5/8" Wgt/Ft 24#

Top SURFACE Bottom 318'

Size 4-1/2" Wgt/Ft 11.6#

Top SURFACE Bottom 8,643'

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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 RECORDED AS PER CUSTOMER REQUEST
LOGGED UNDER 0 PSI INDUCED SURFACE PRESSURE & 13' KB
CORRELATED TO DV TOOL @ 1,214'

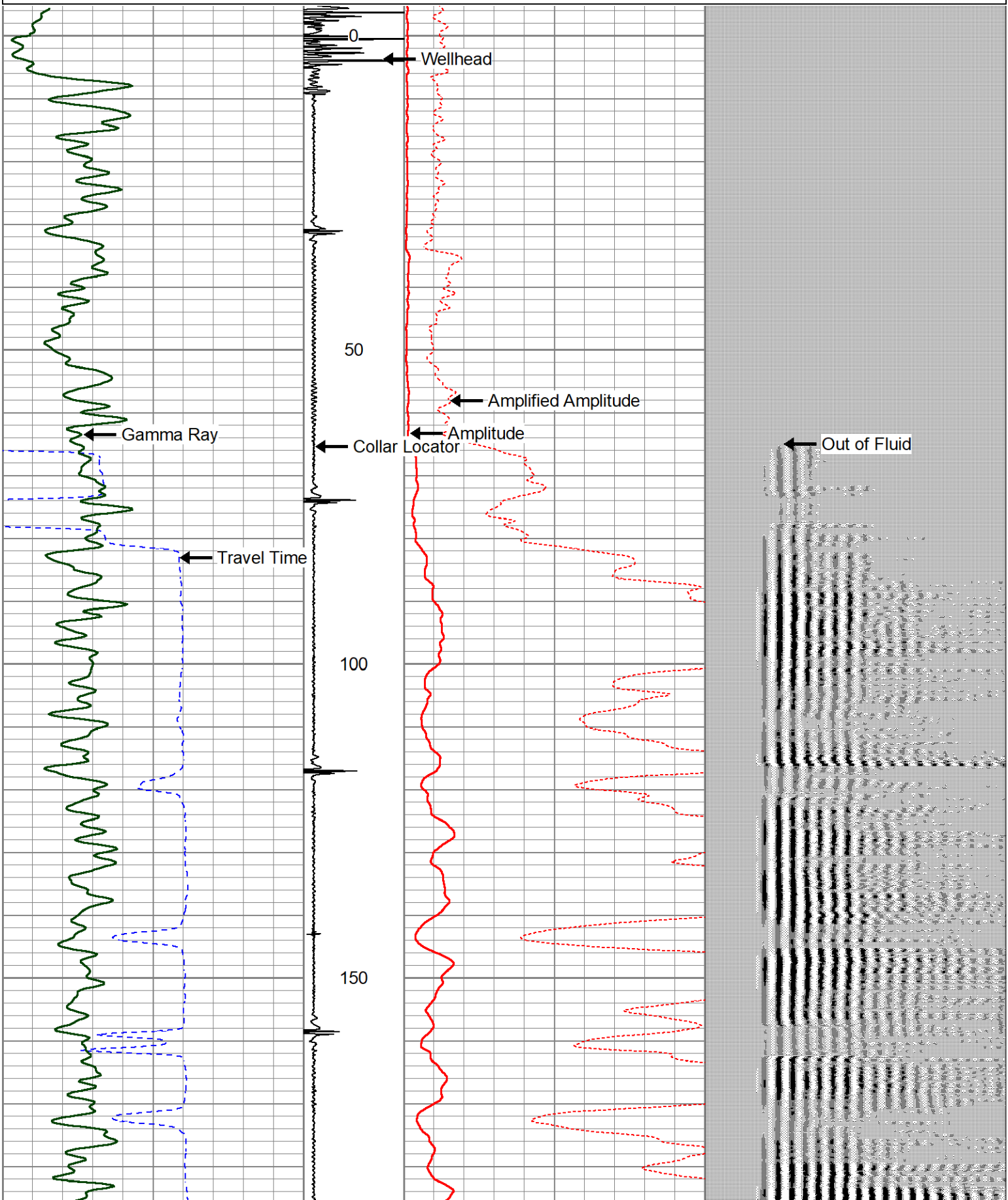
THANK YOU FOR USING KLX ENERGY SERVICES

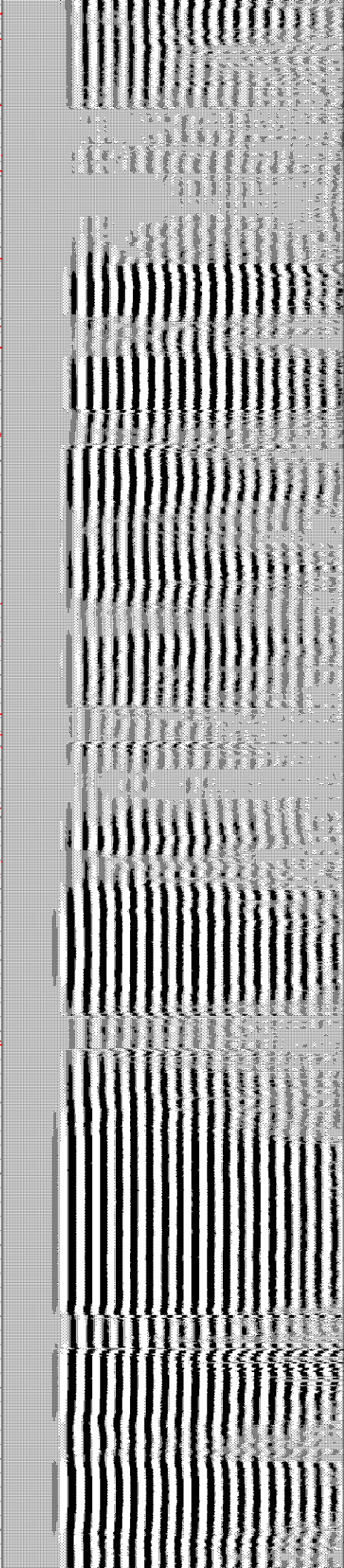
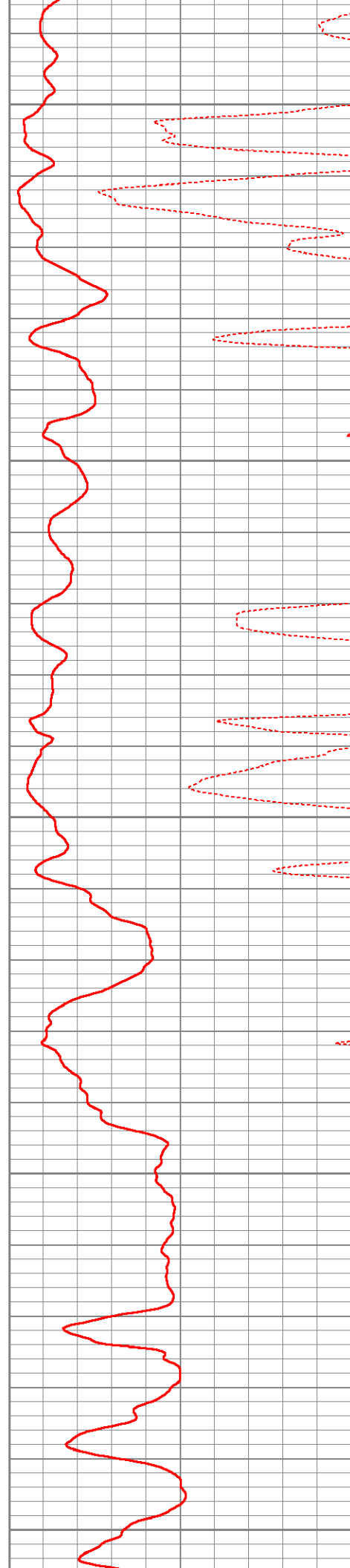
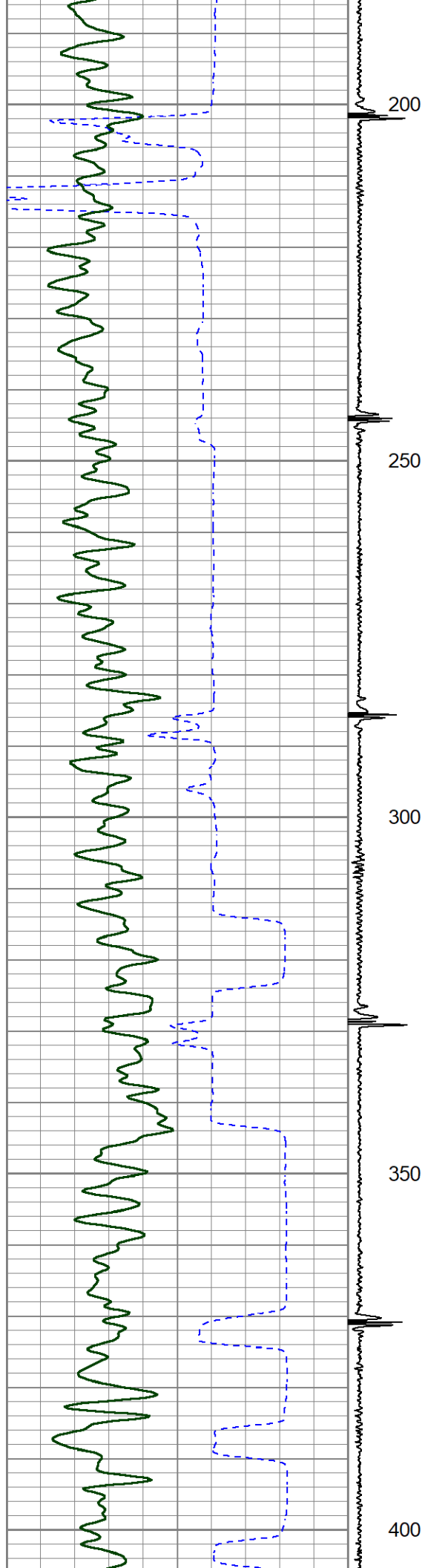


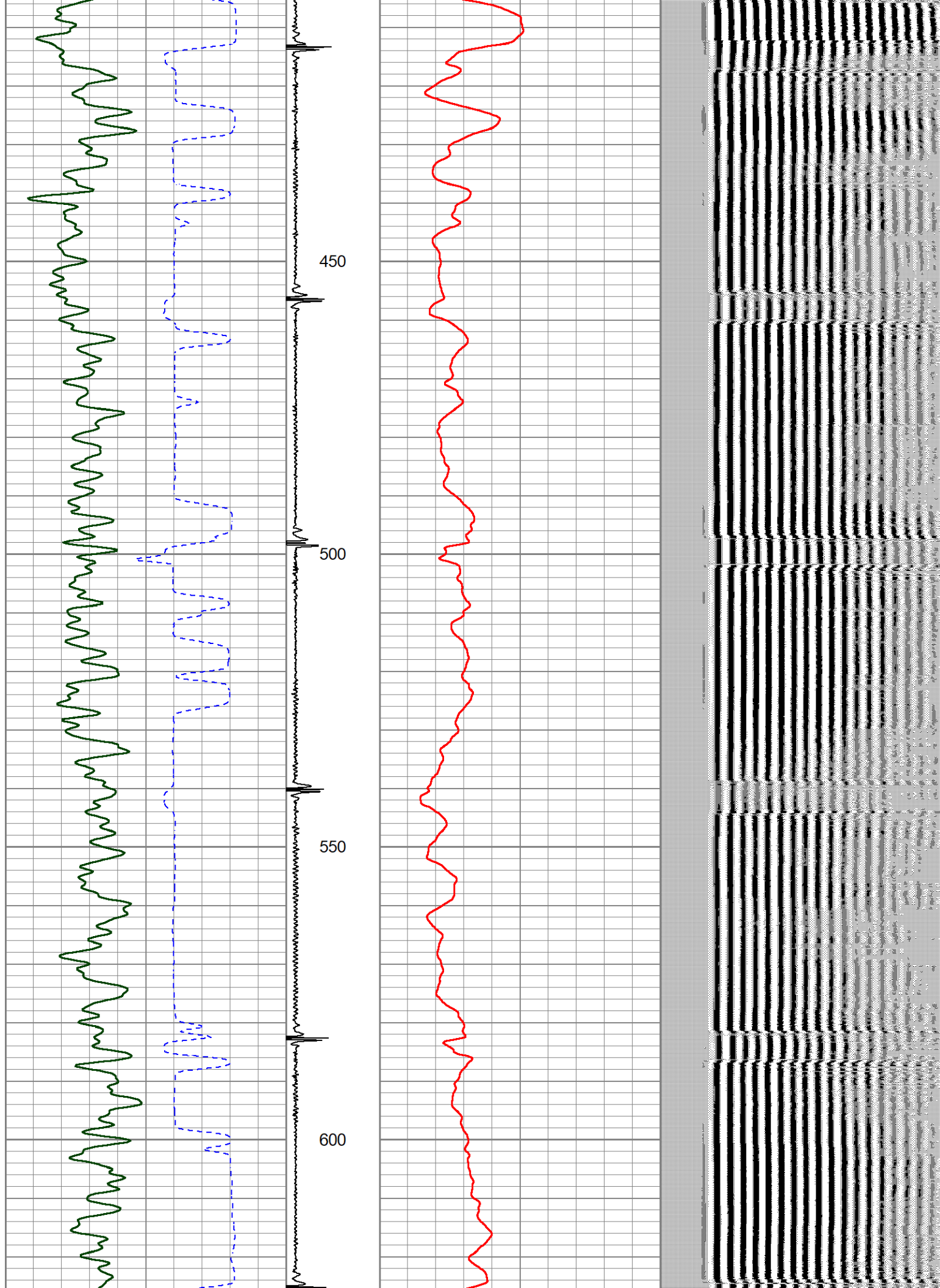
MAIN PASS - 5"/100'

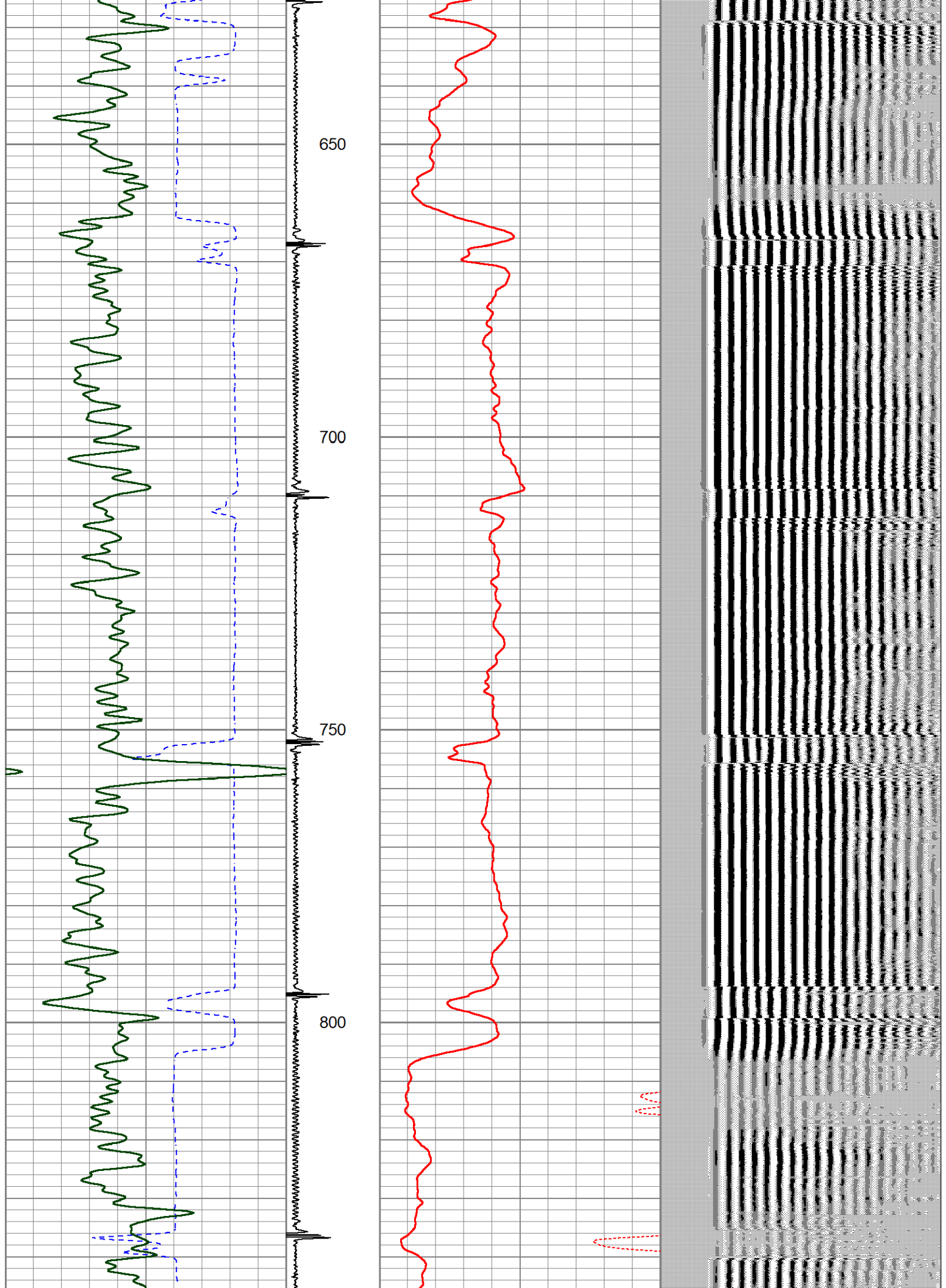
0 PSI

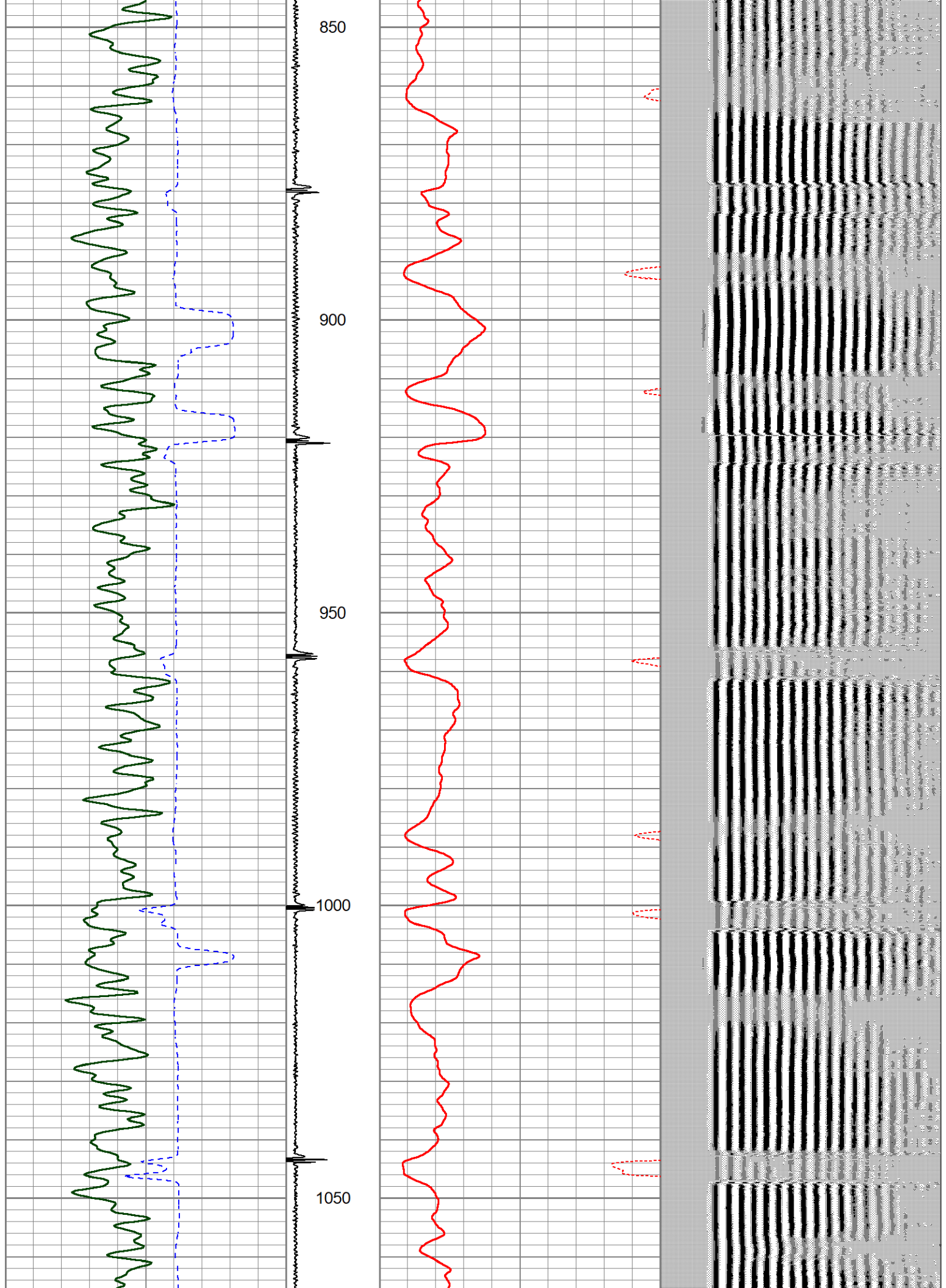
400	Travel Time (usec)	200	Collar Locator	0	Amplified Amplitude (mV)	10	200	Variable Density (usec)	1200
0	Gamma Ray (GAPI)	150	-1	9 0	Amplitude (mV)	100			

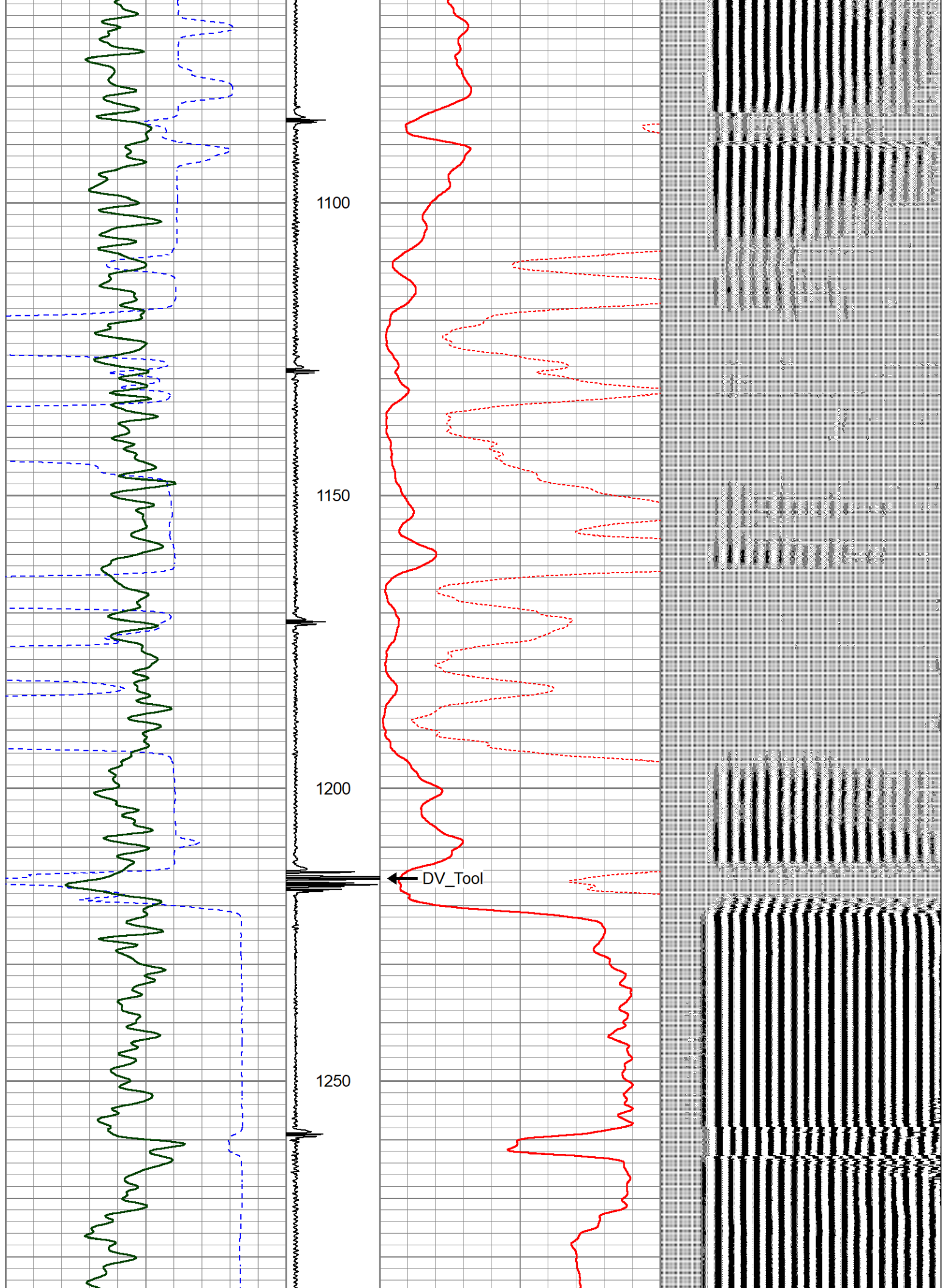


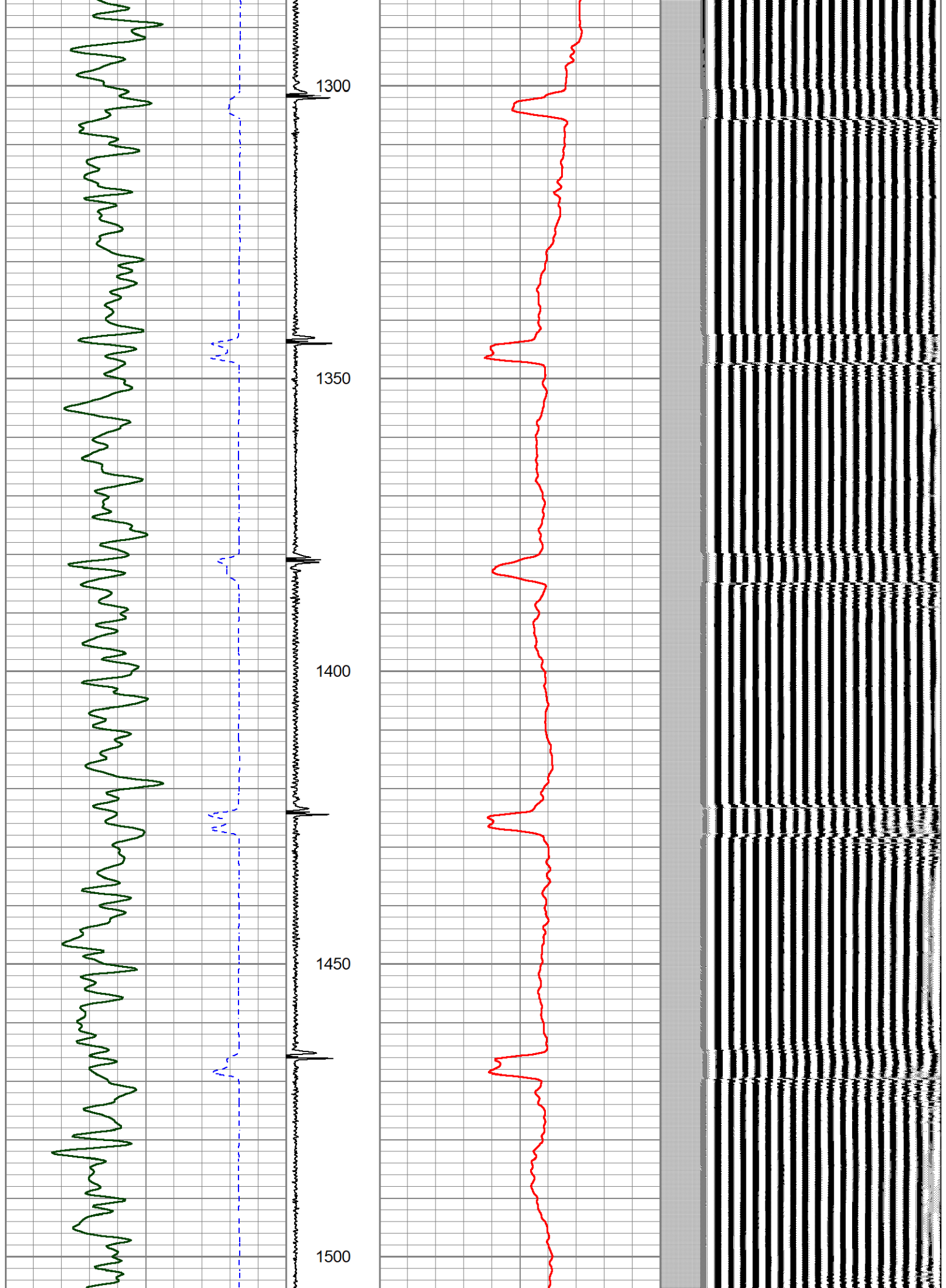


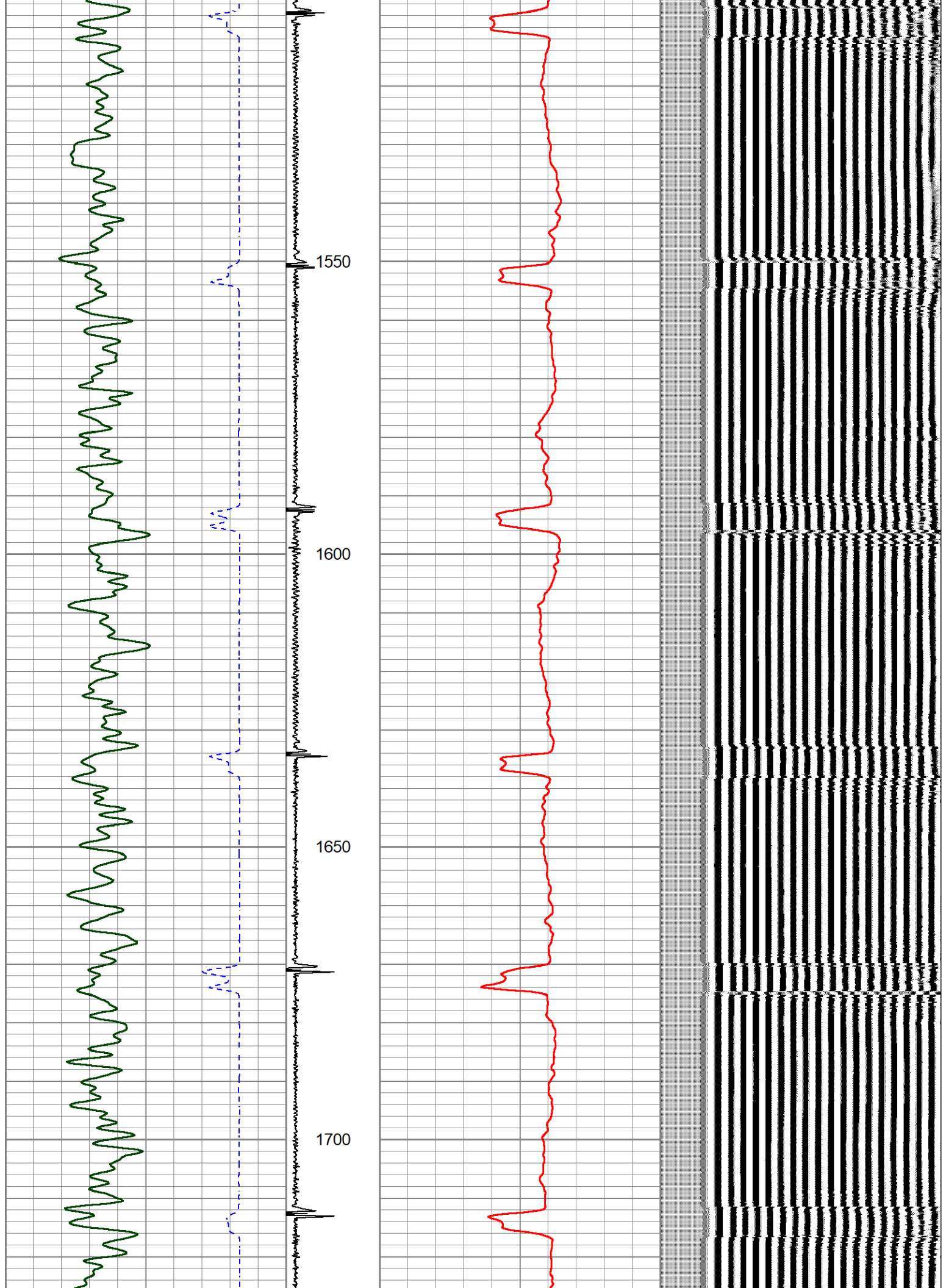


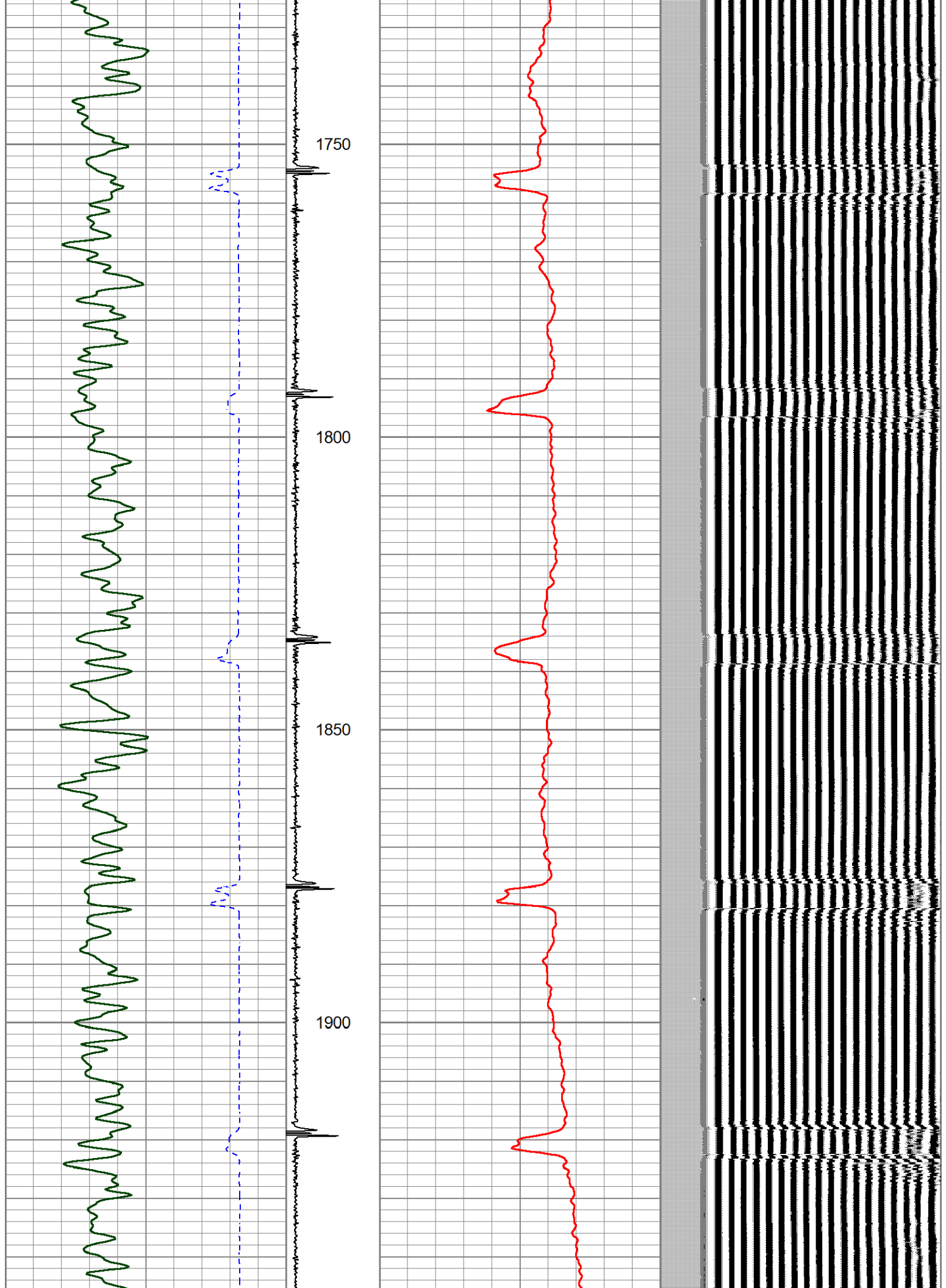


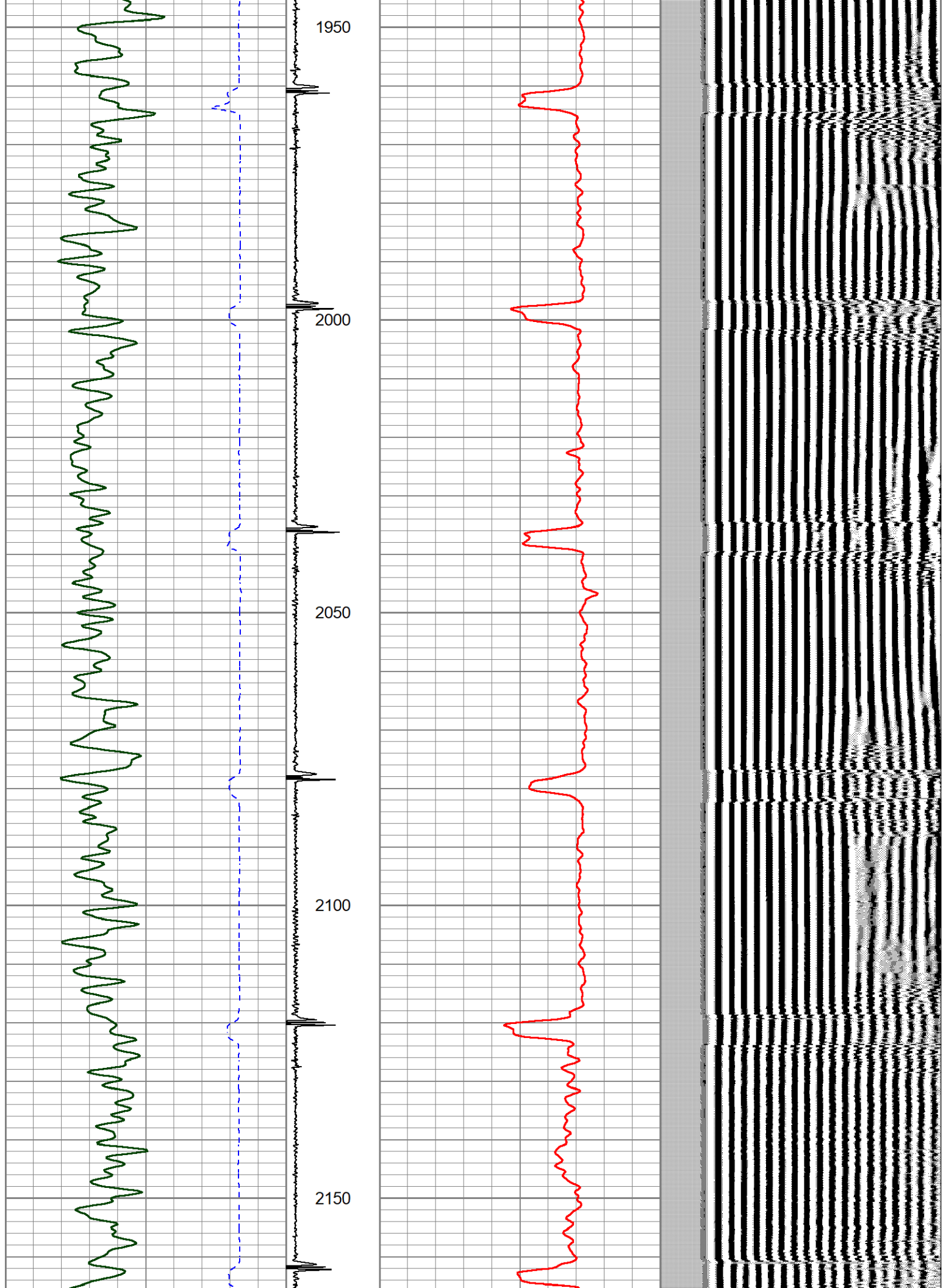


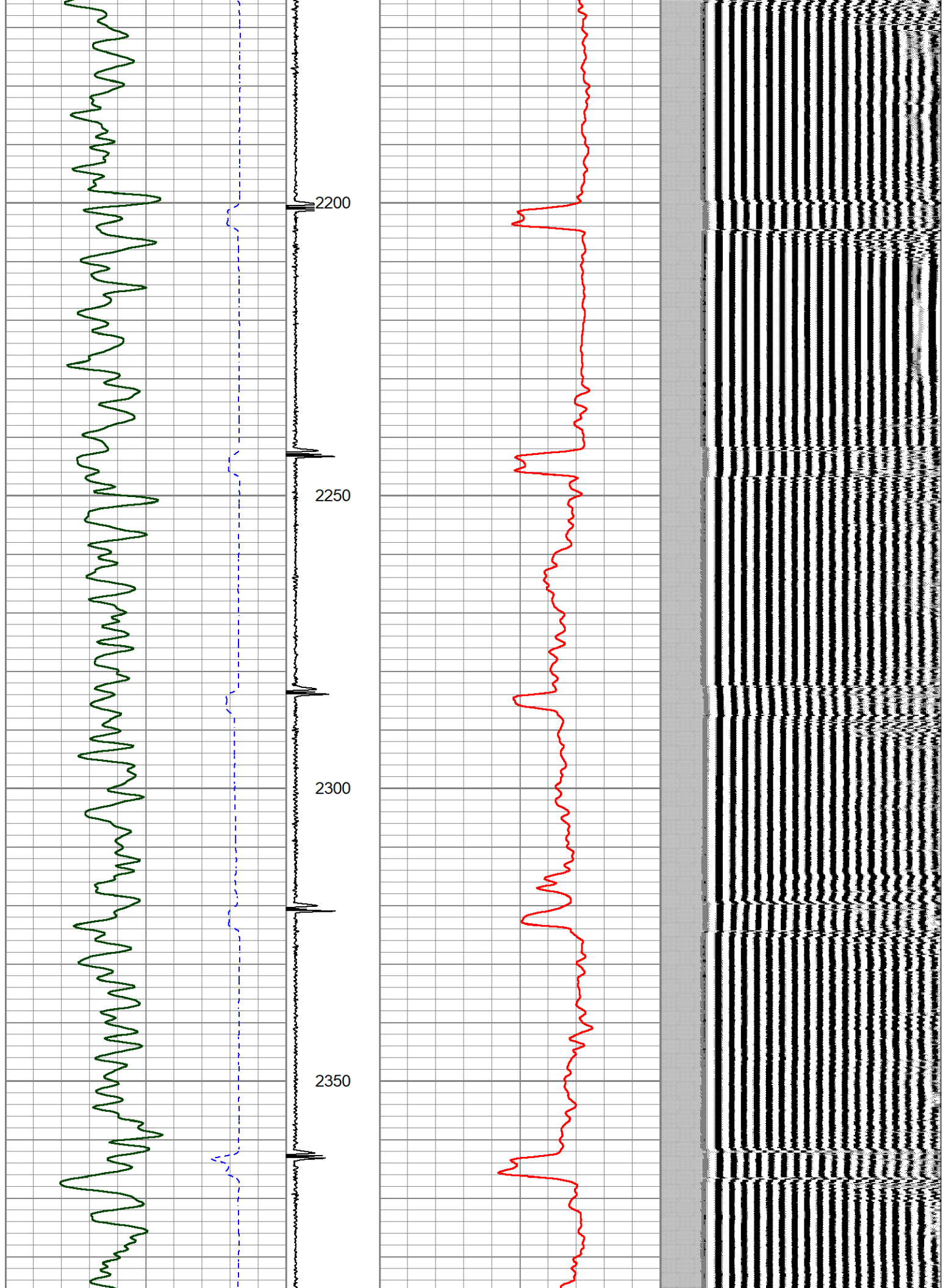


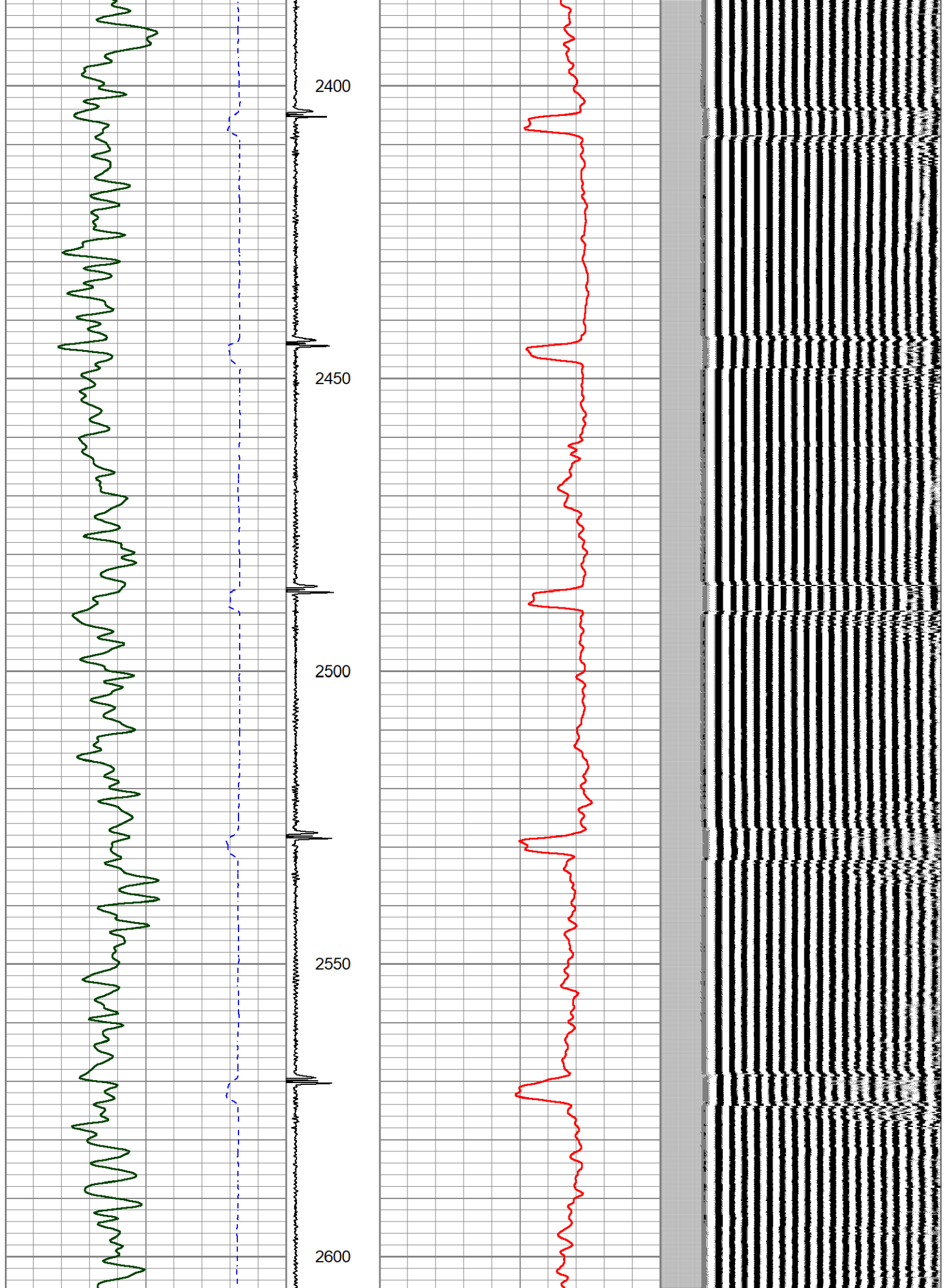


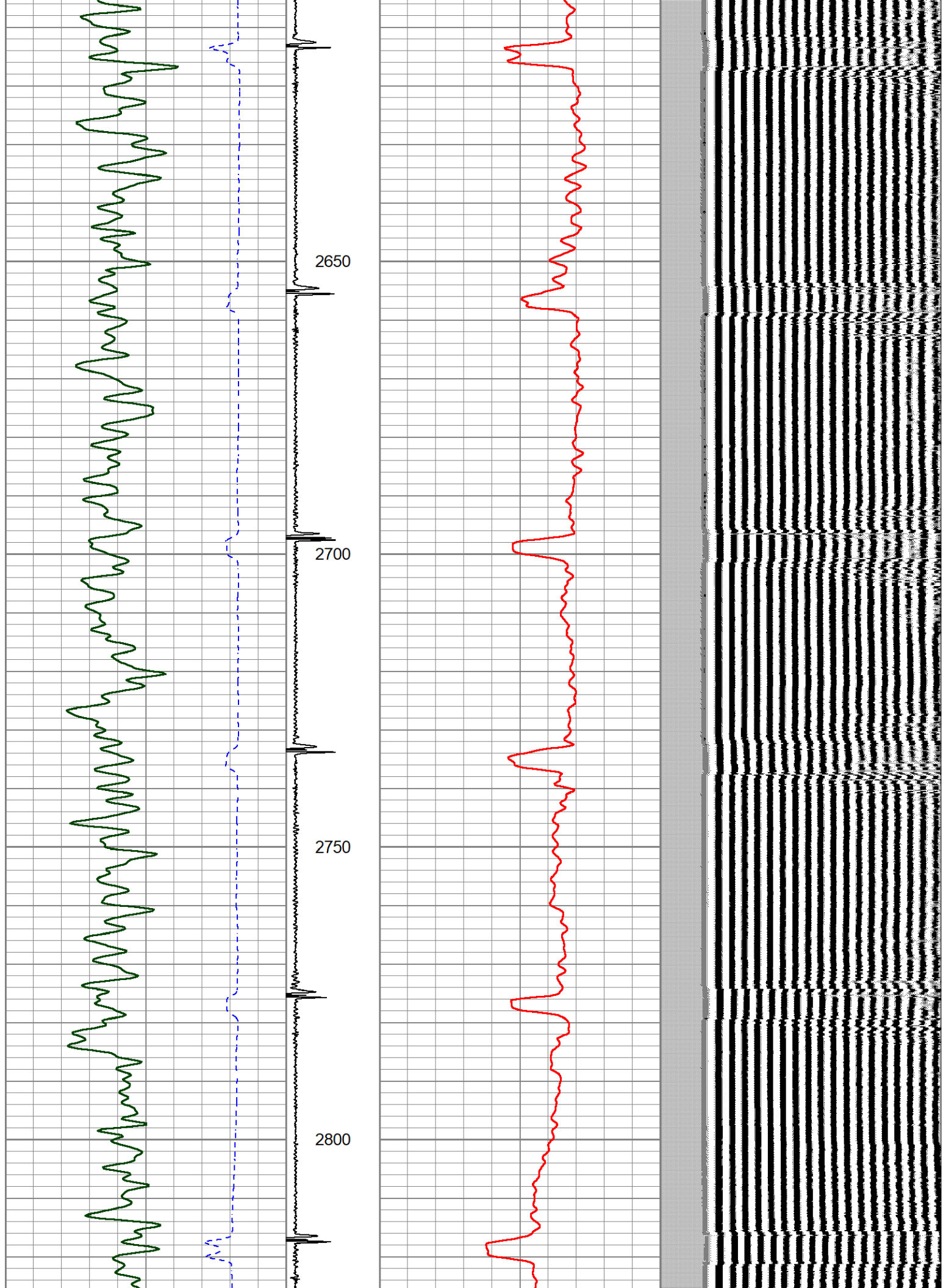


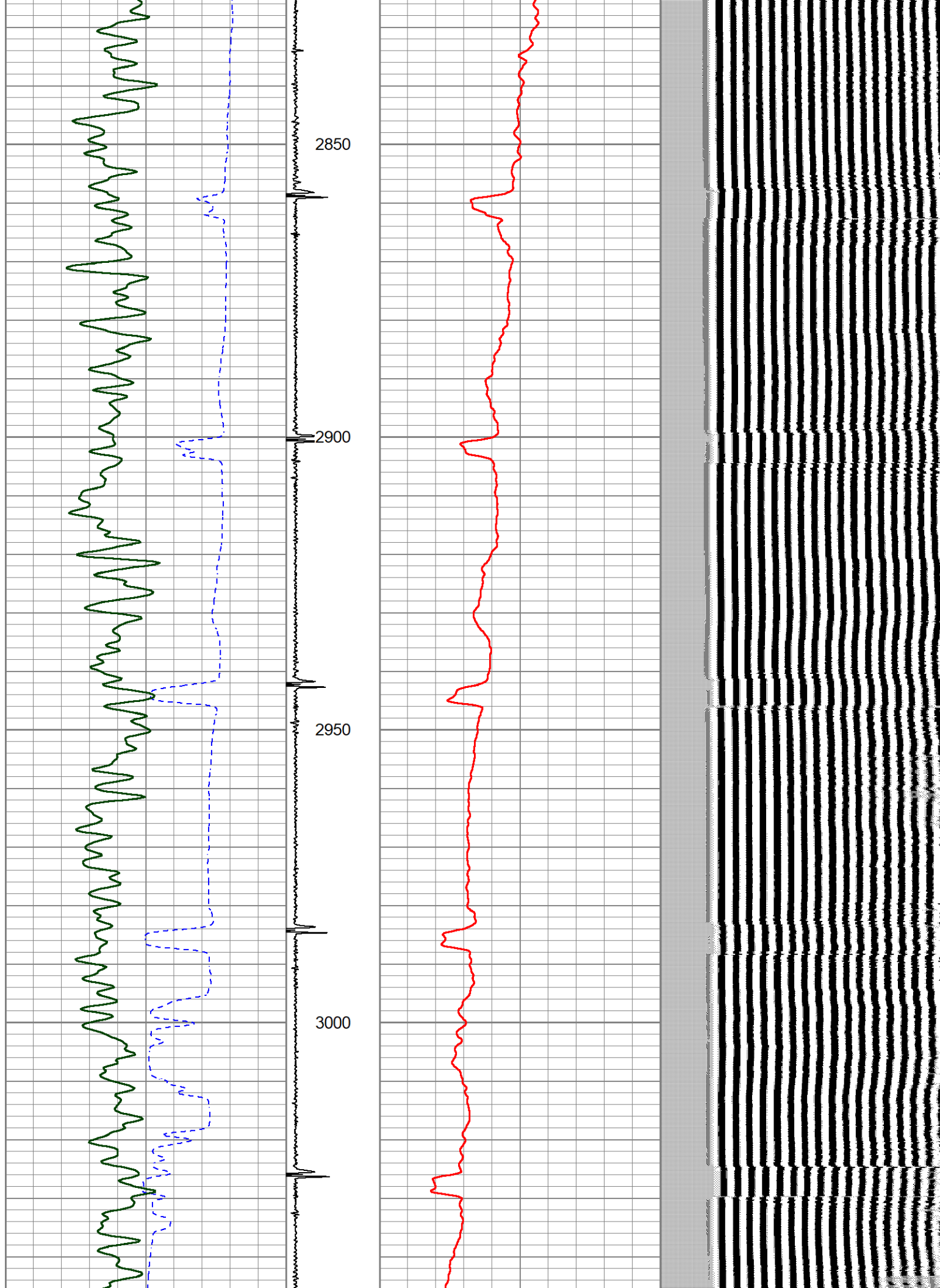


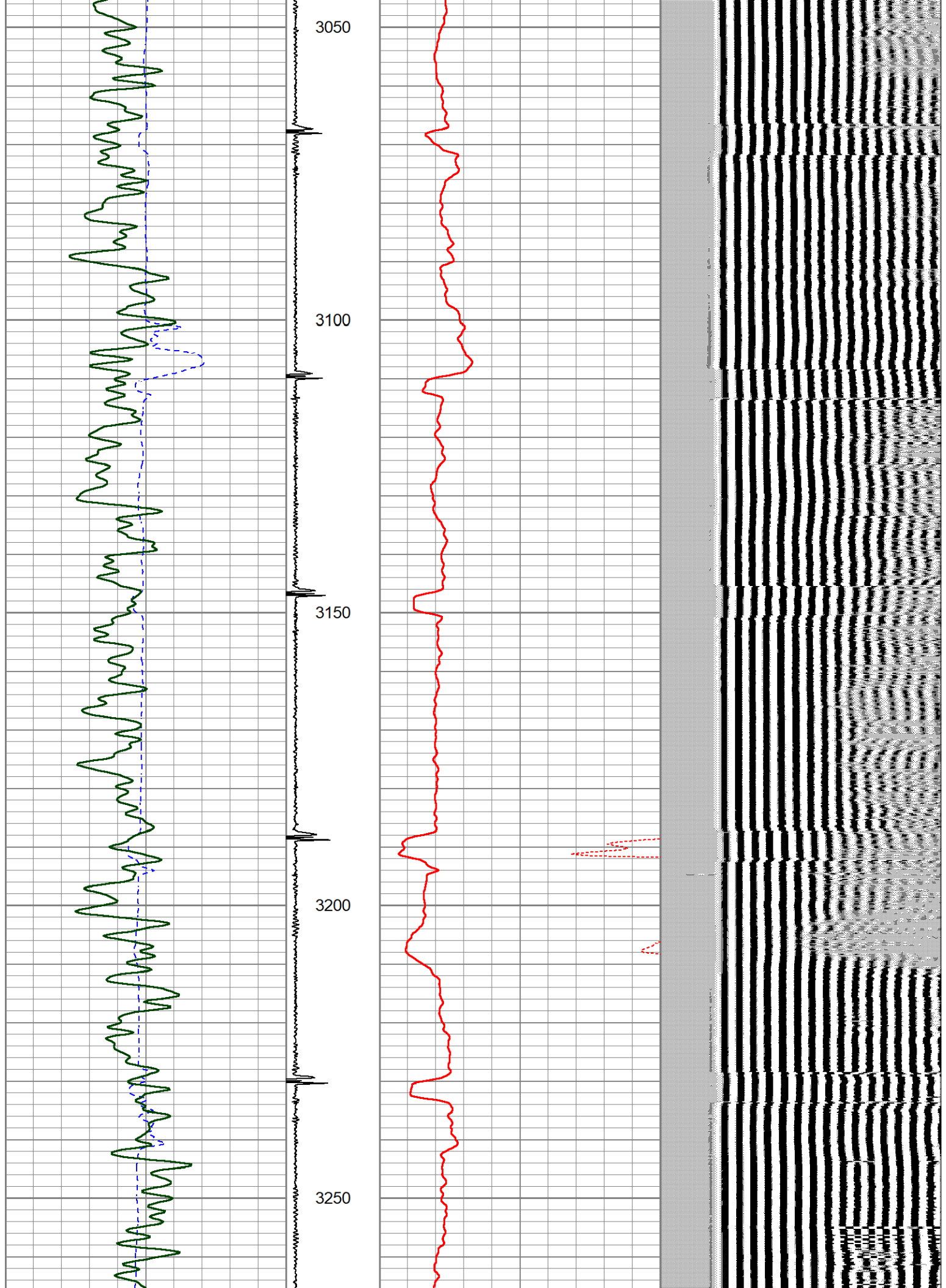


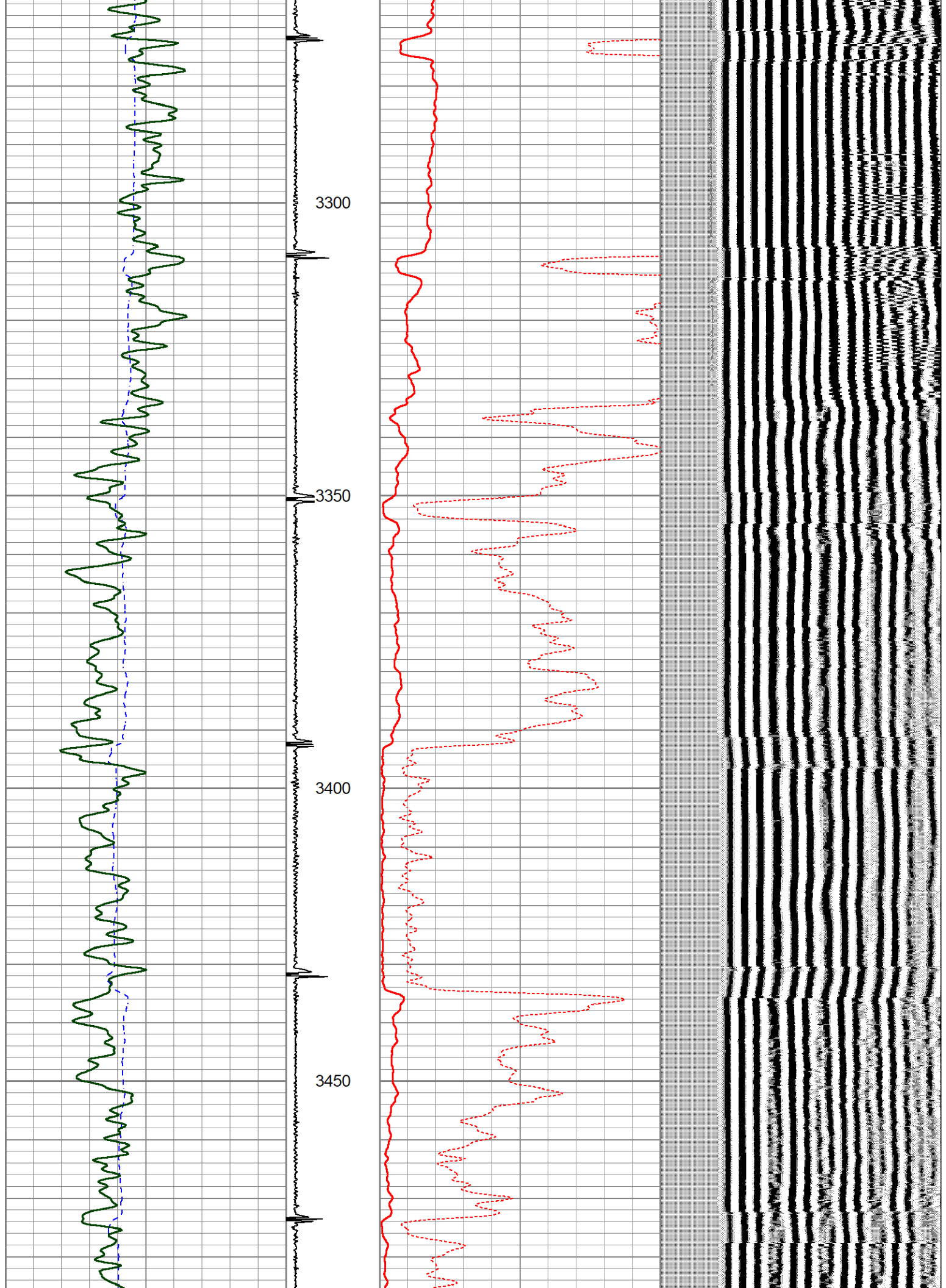


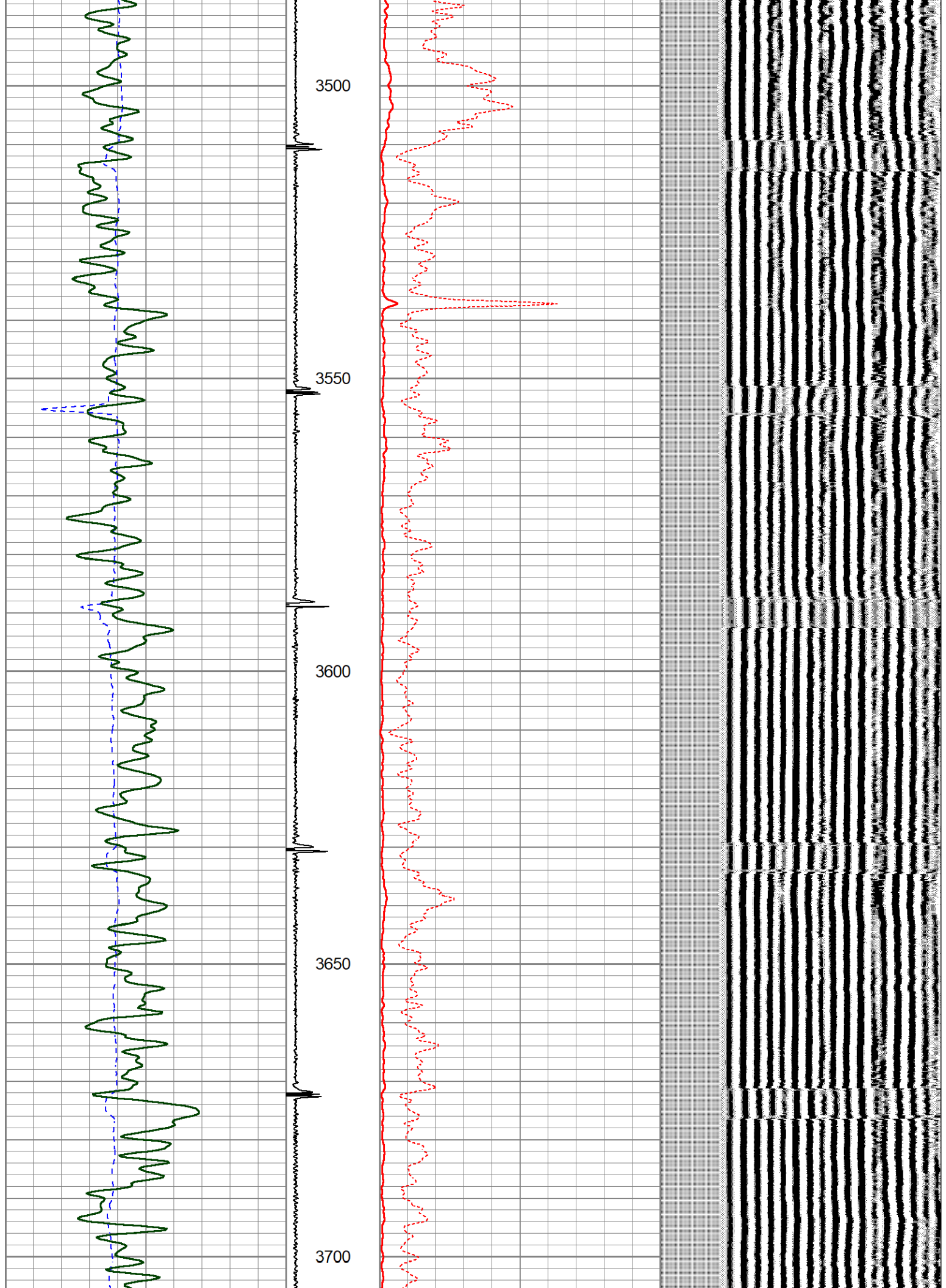


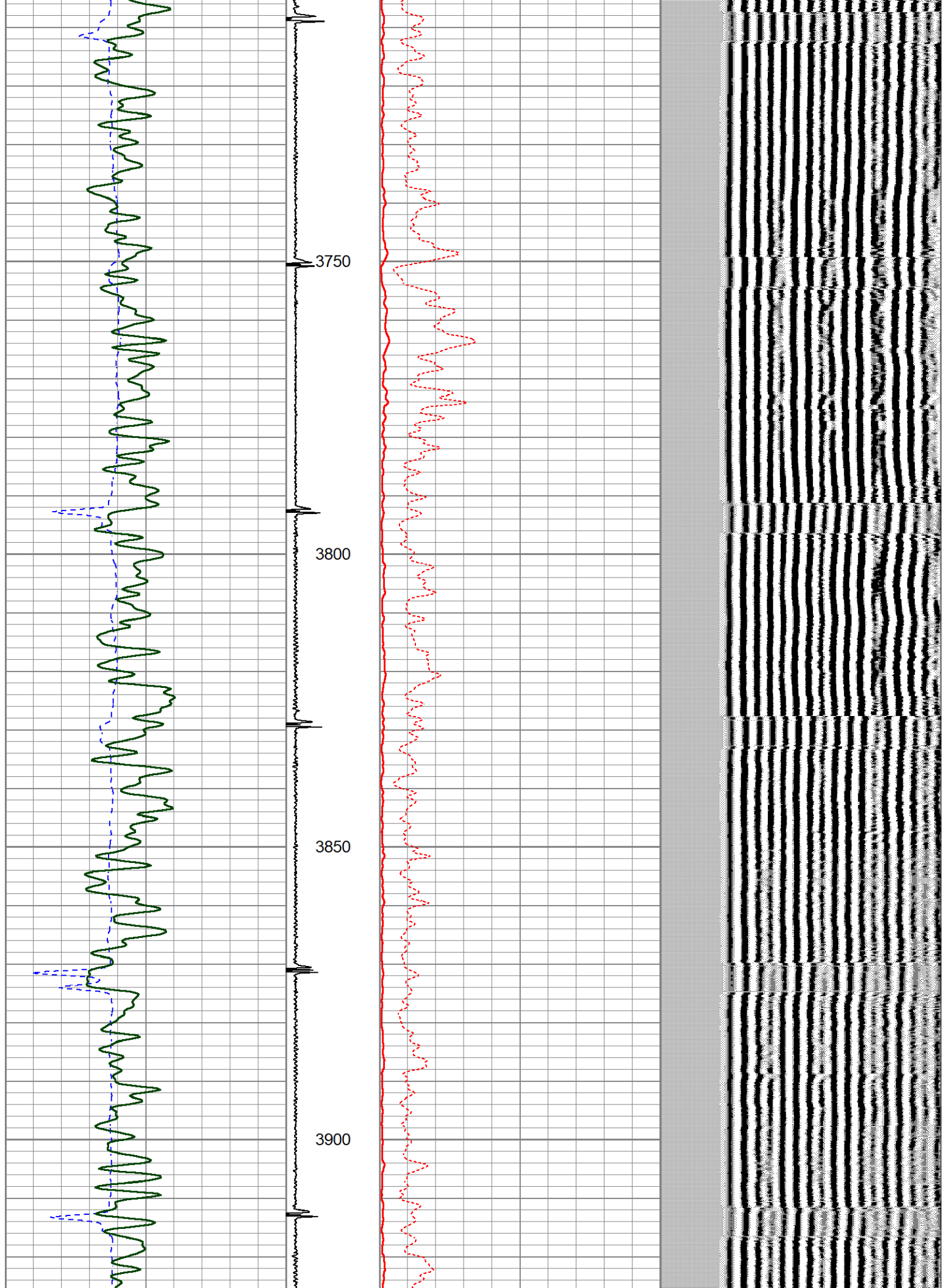


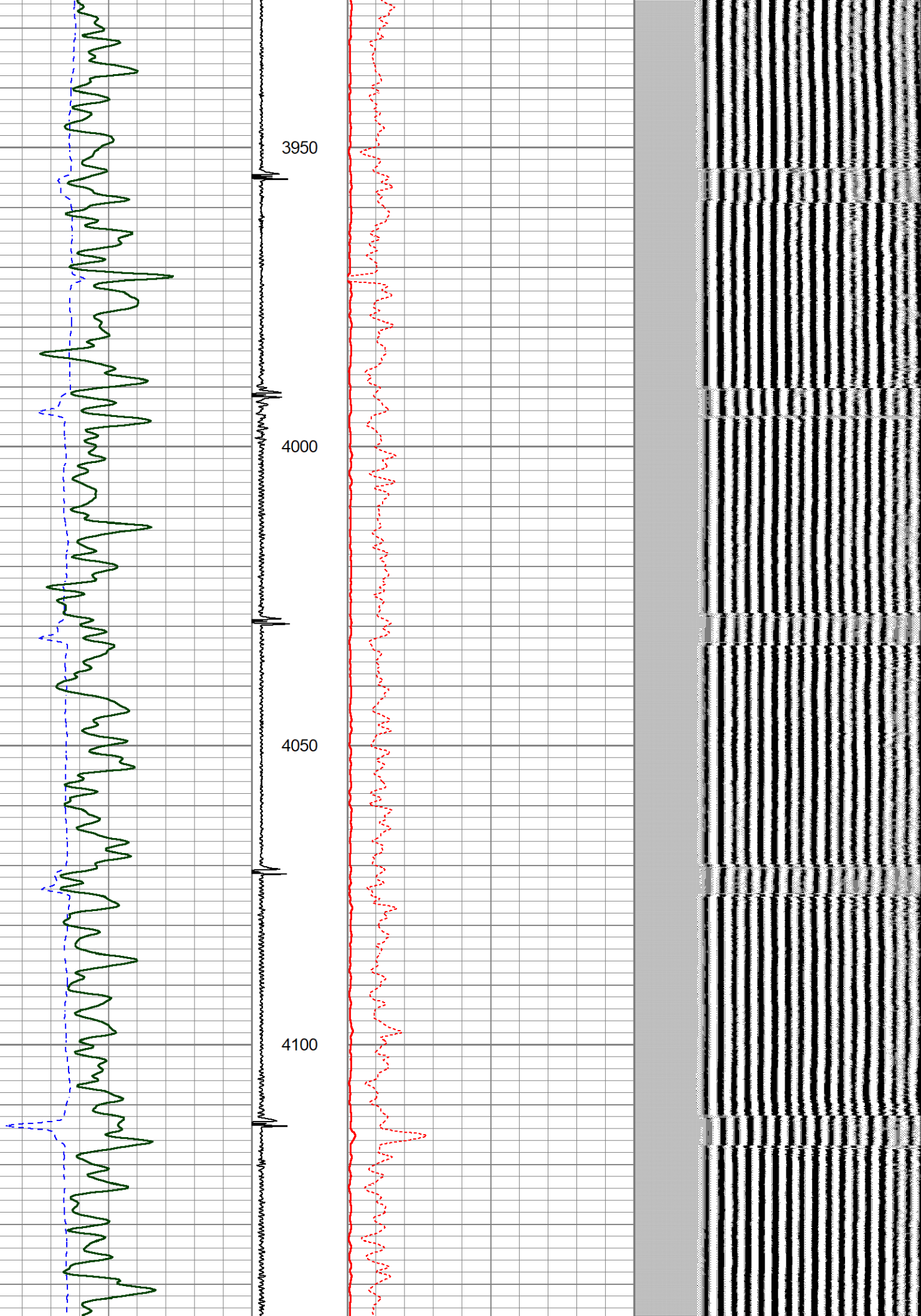


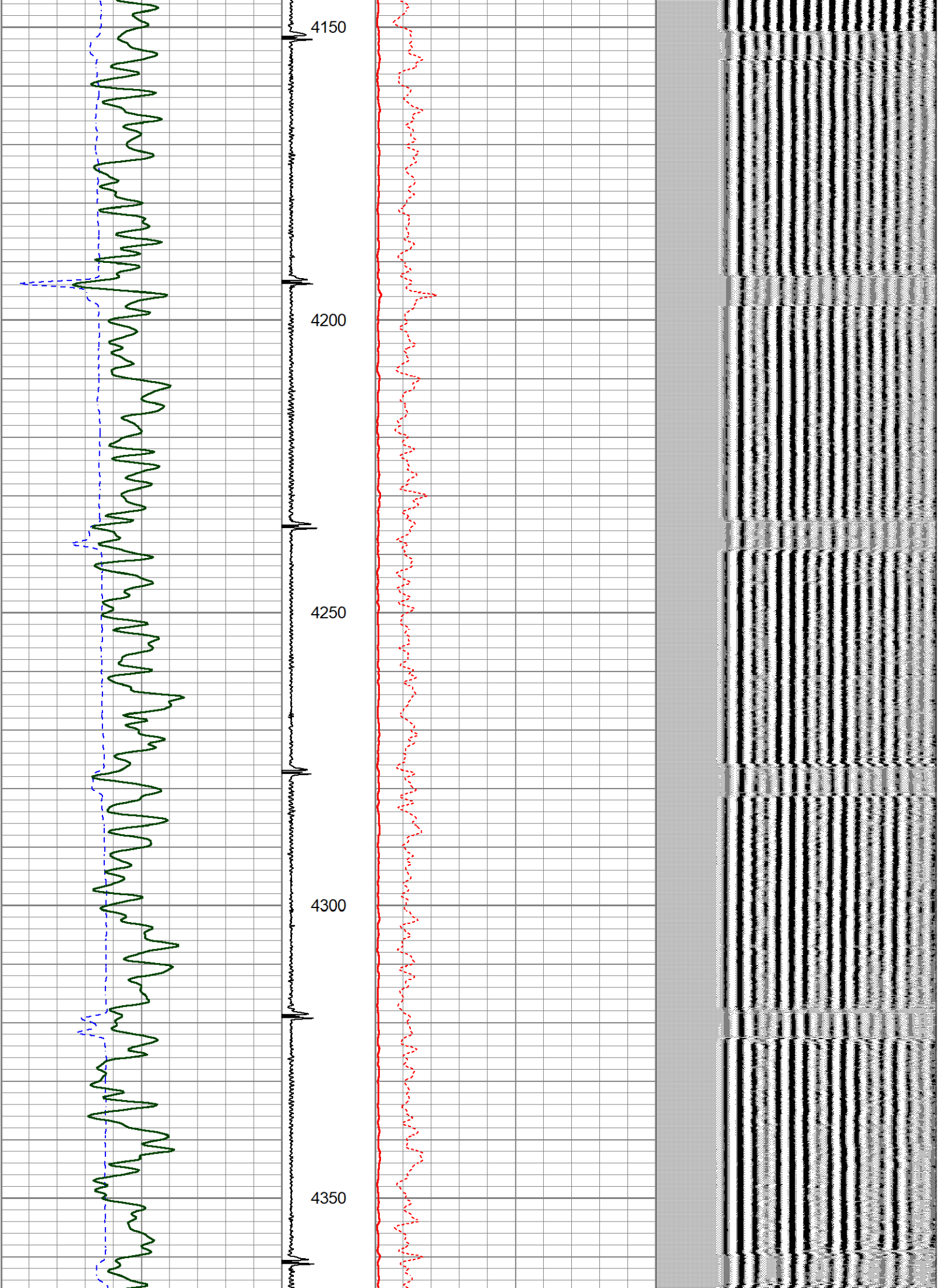


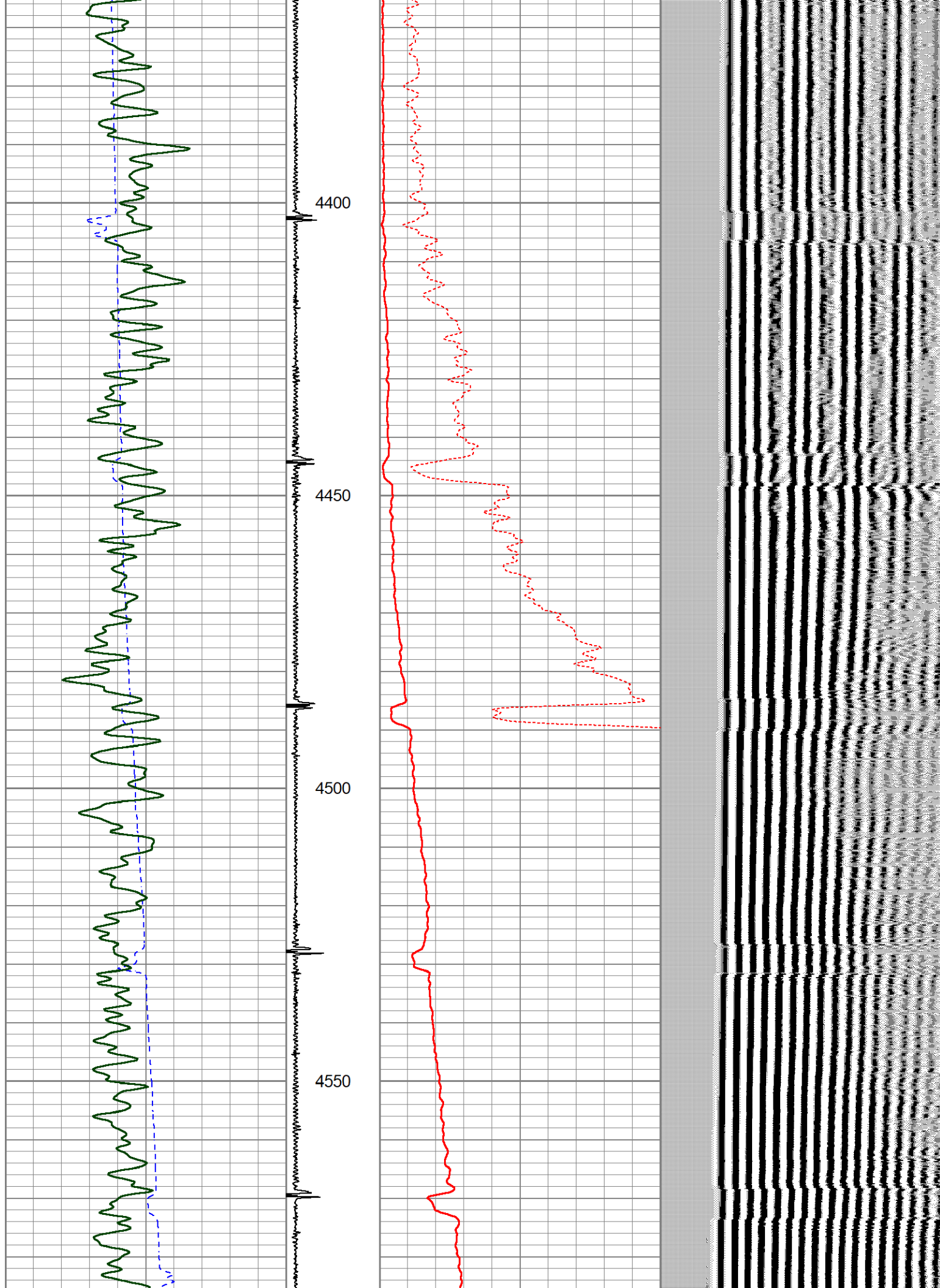


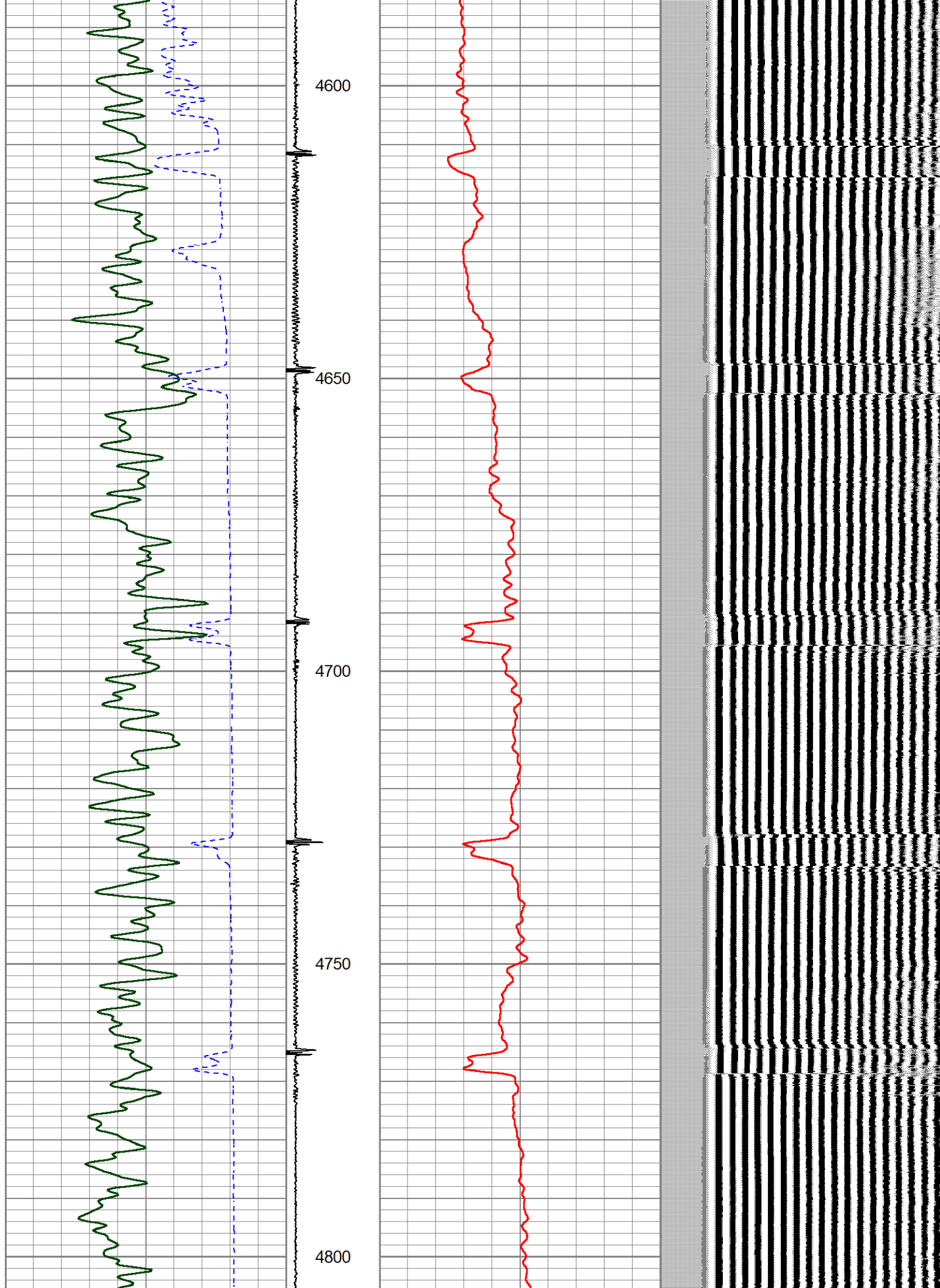


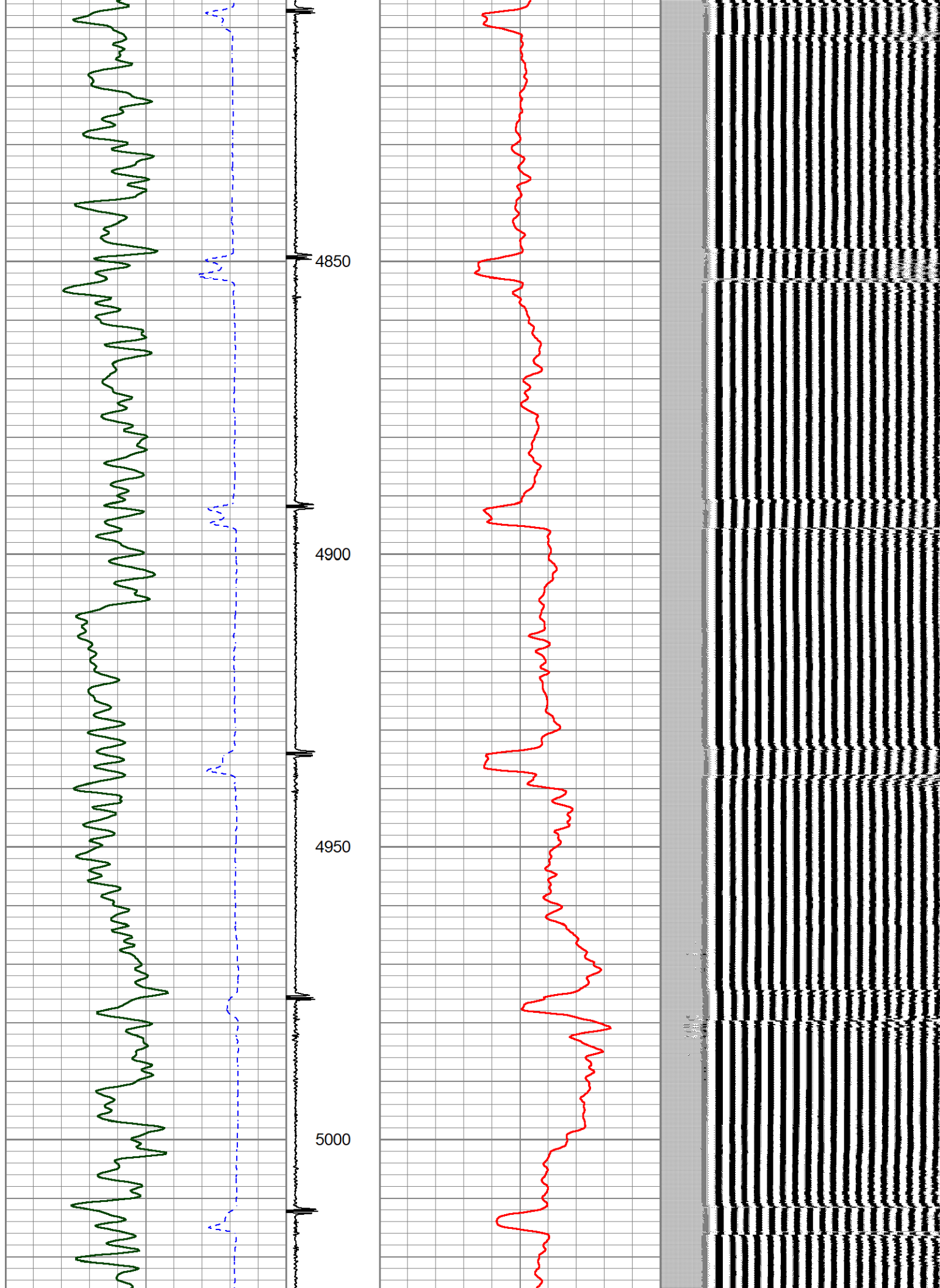


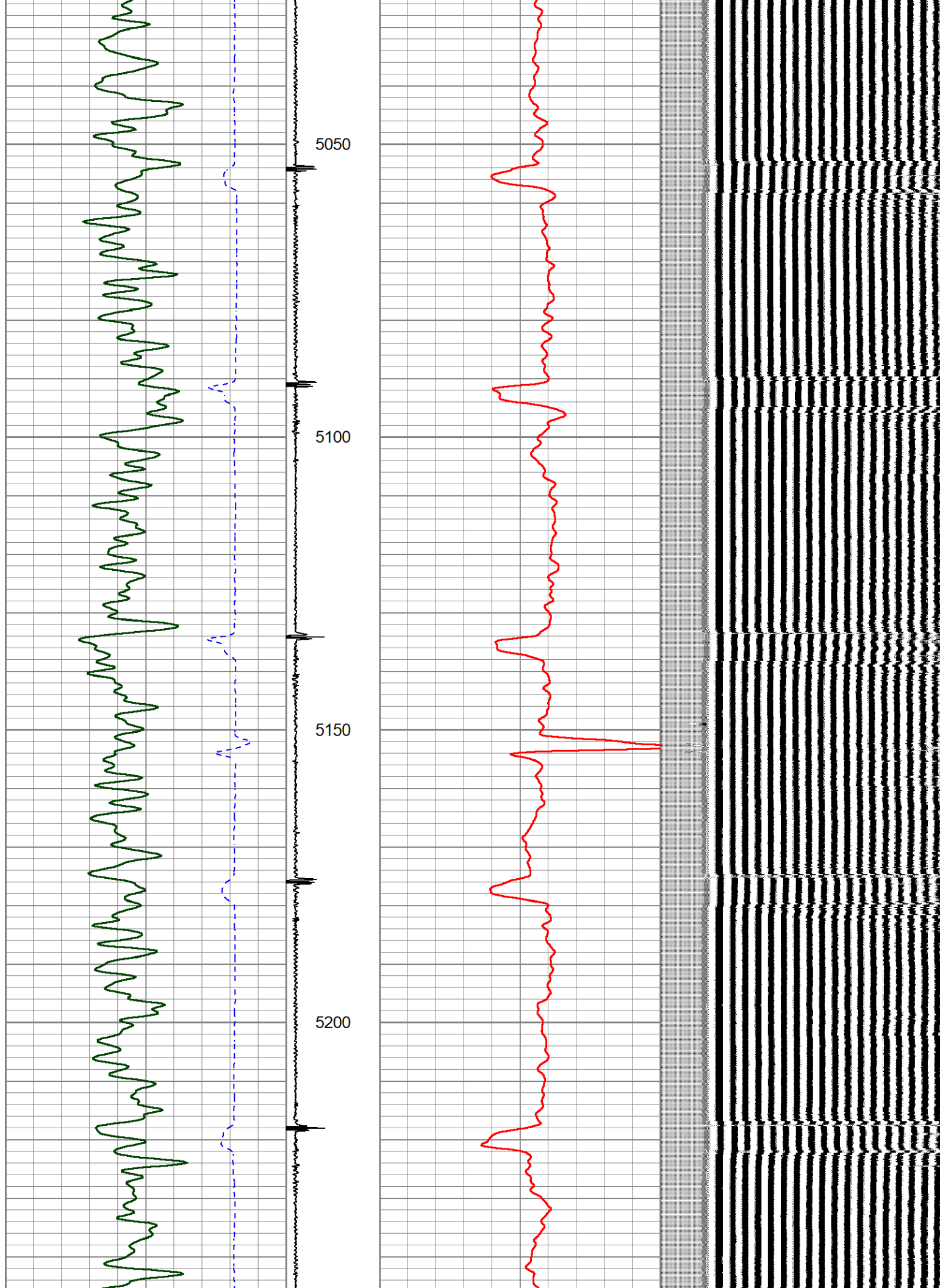


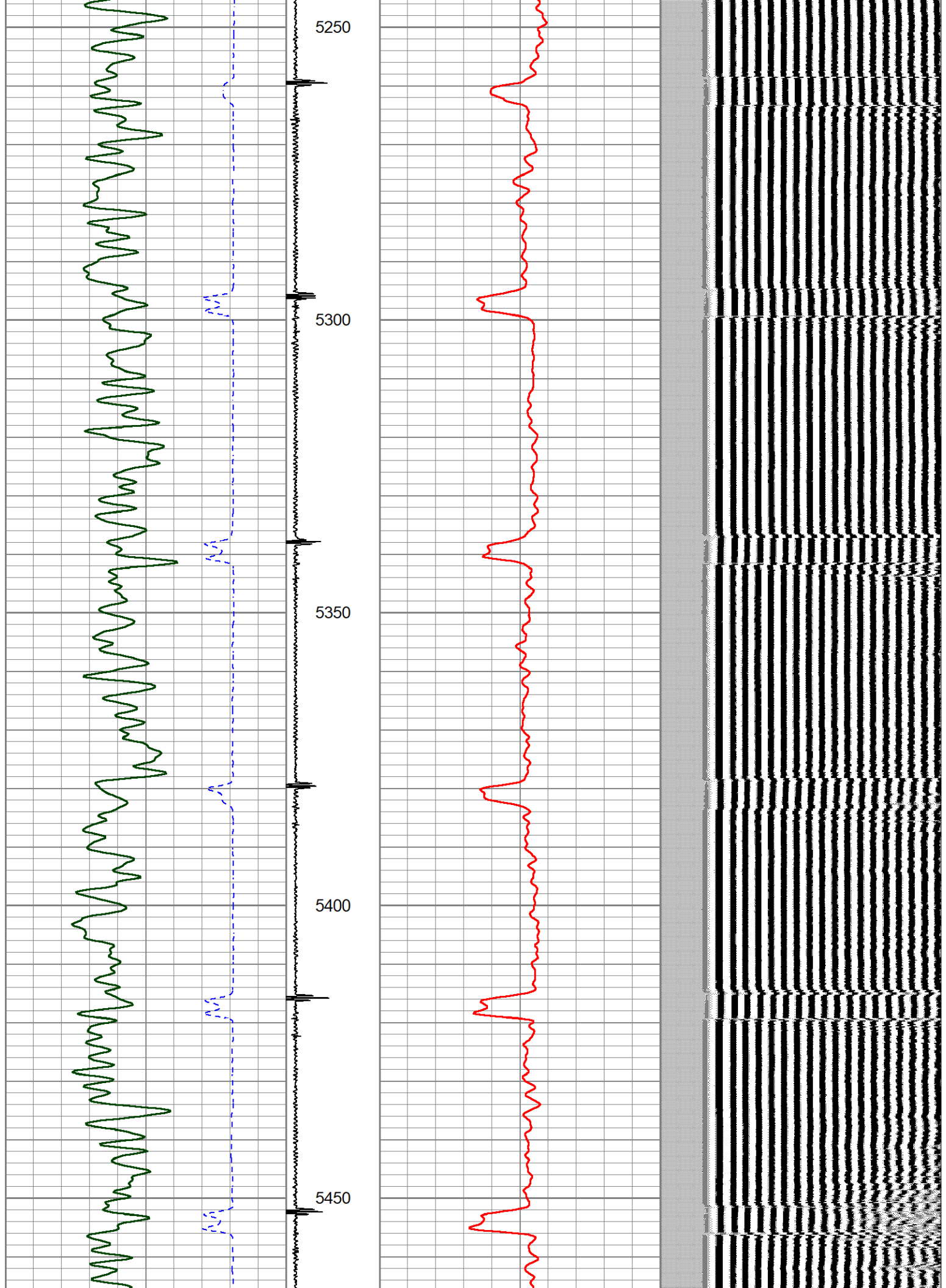


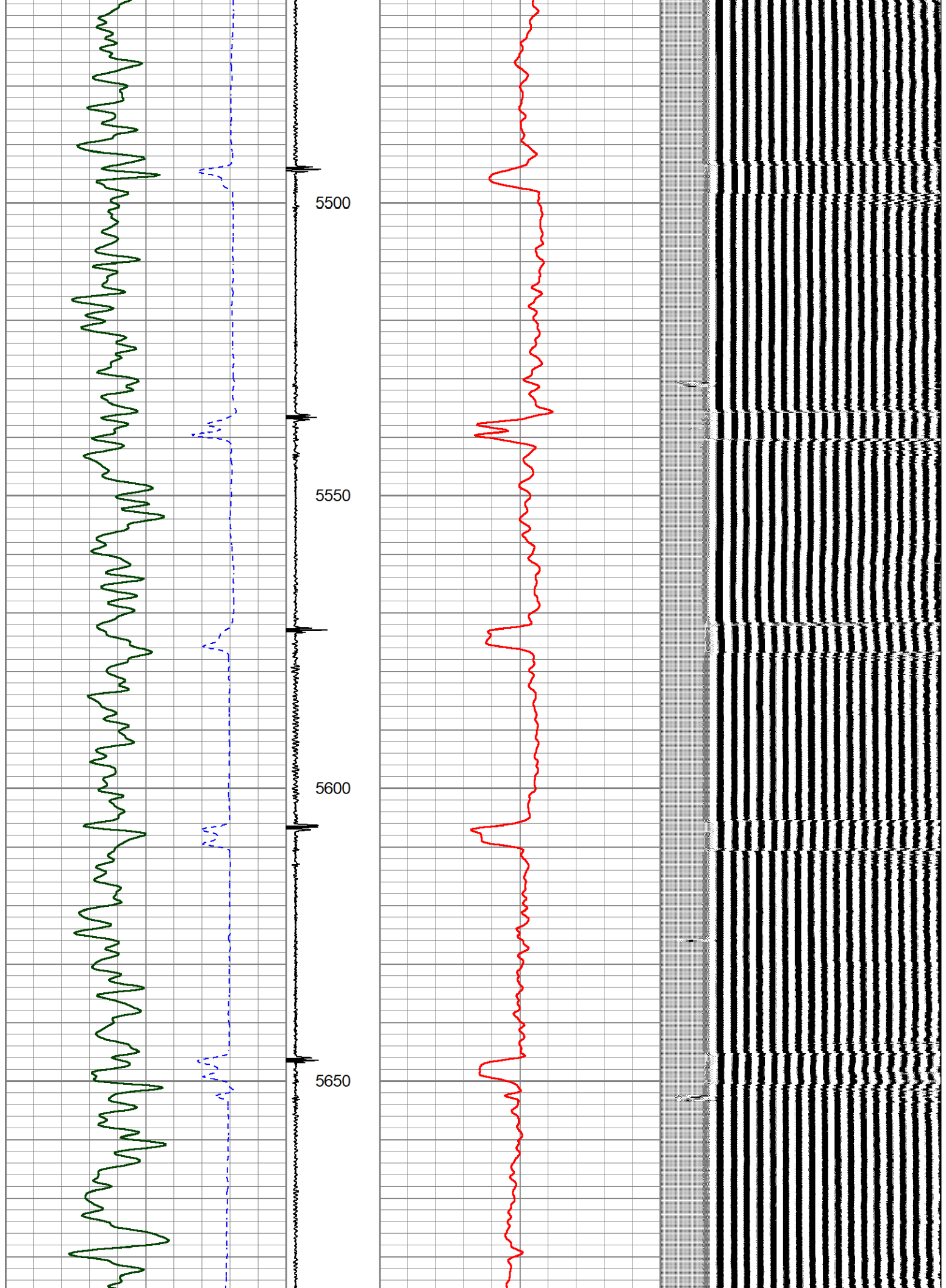


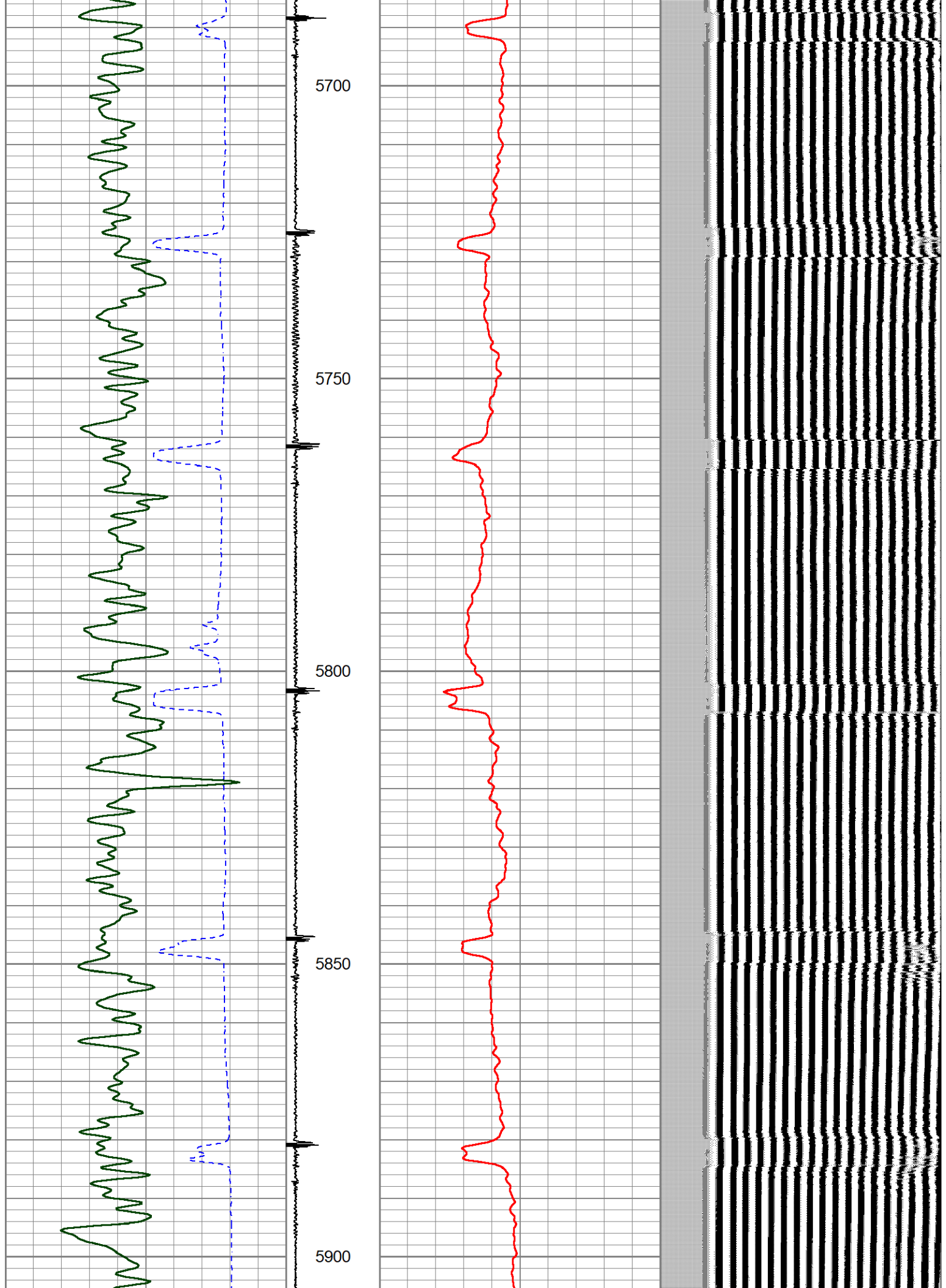


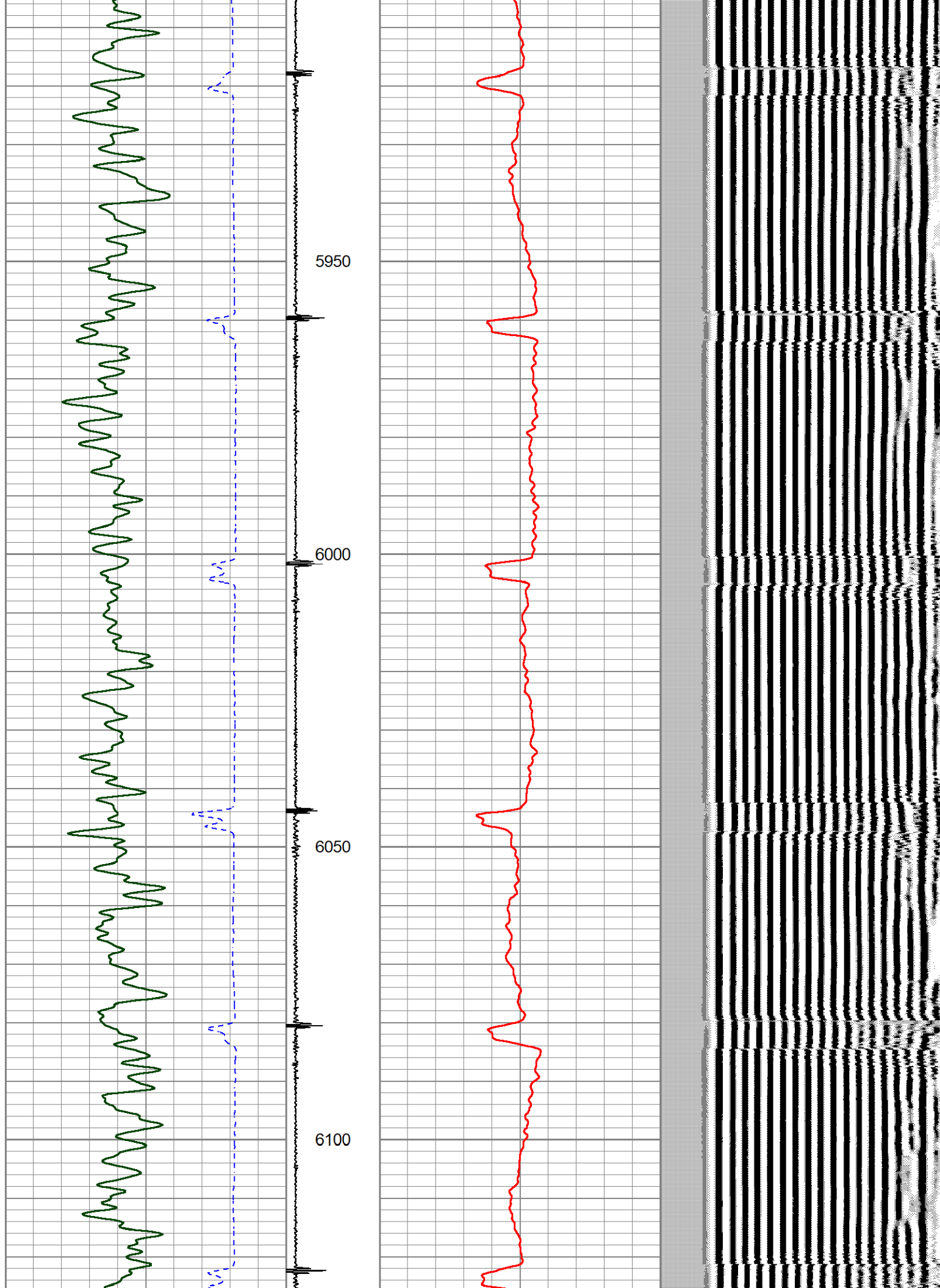


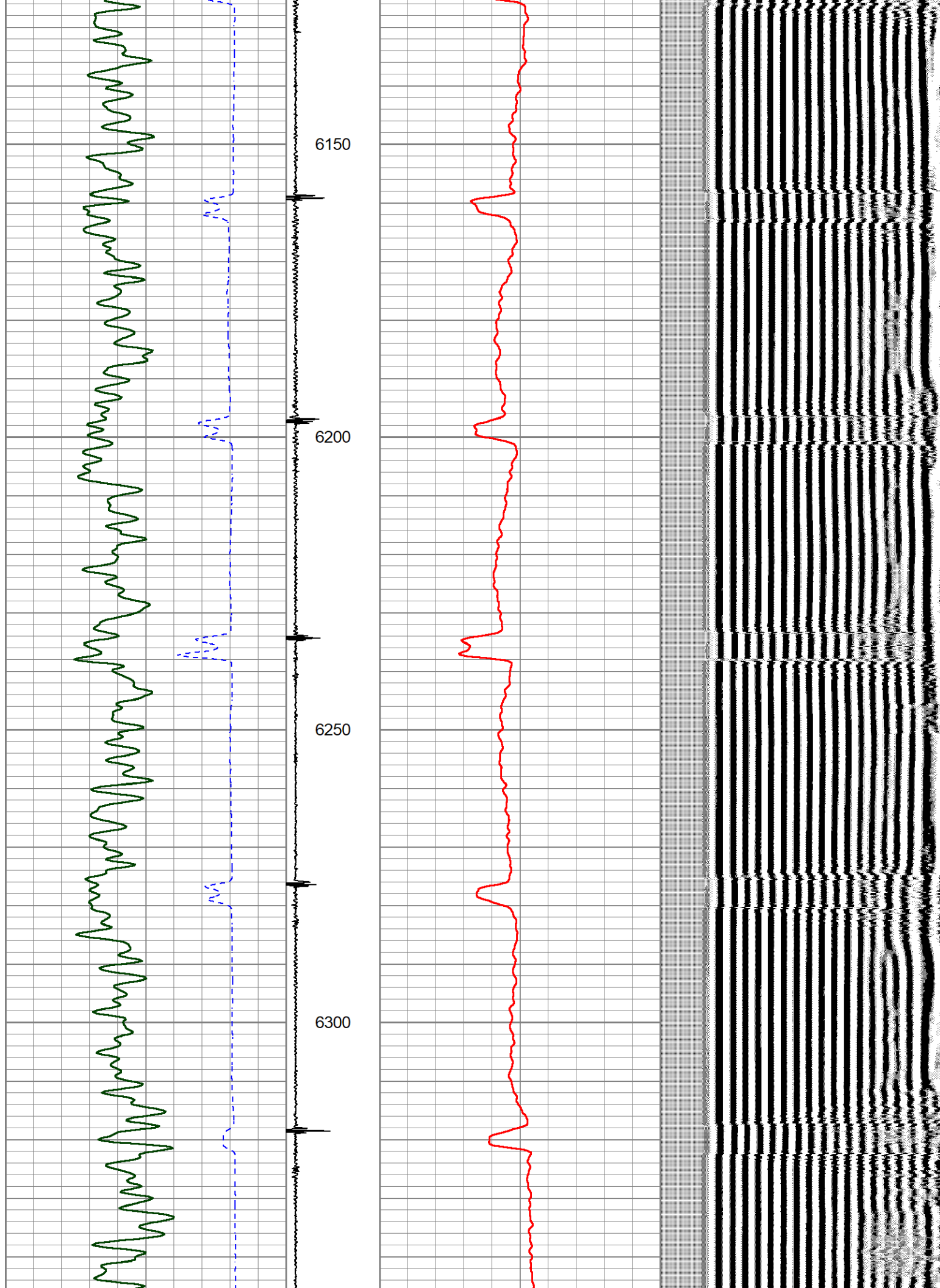


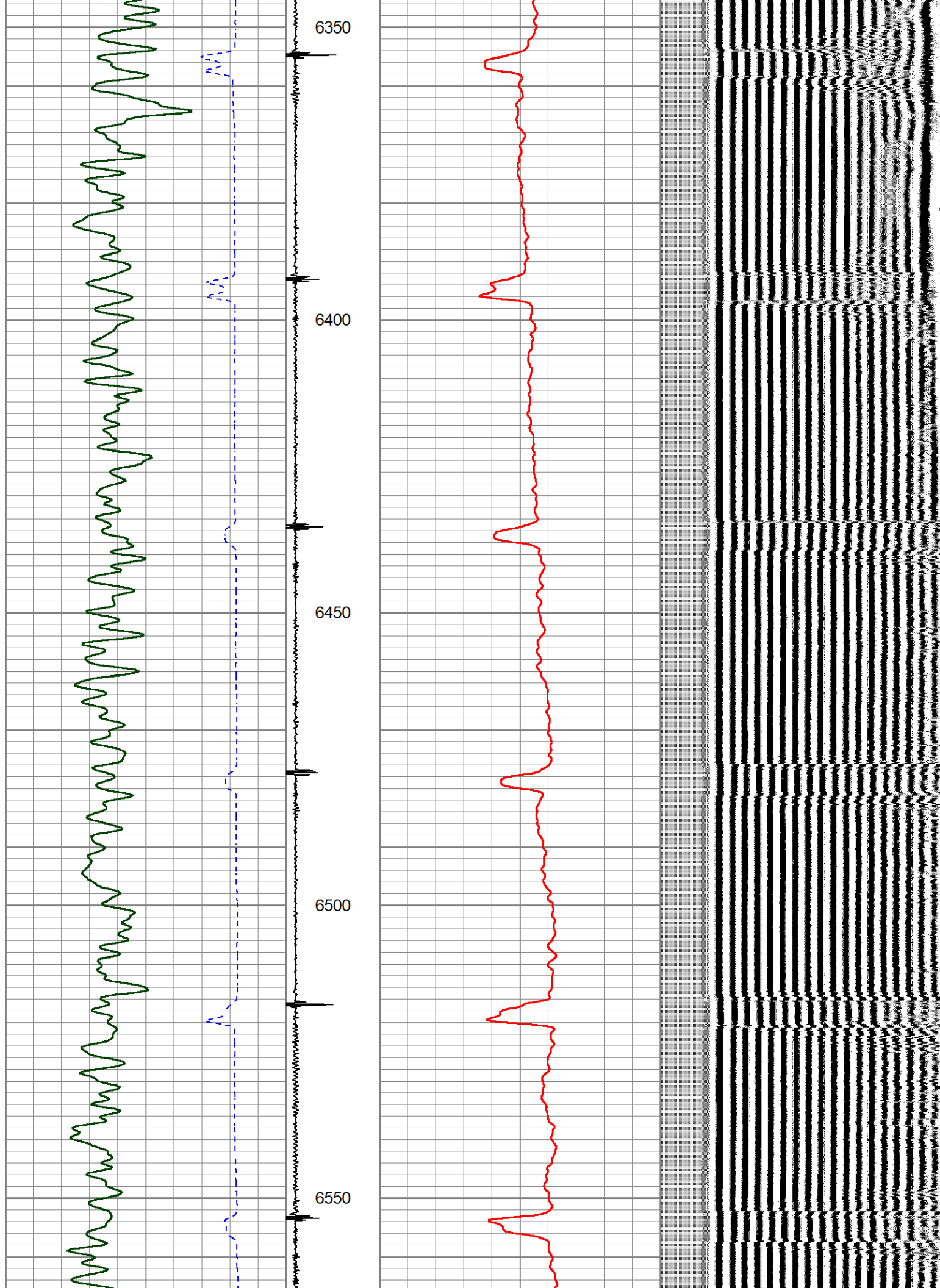


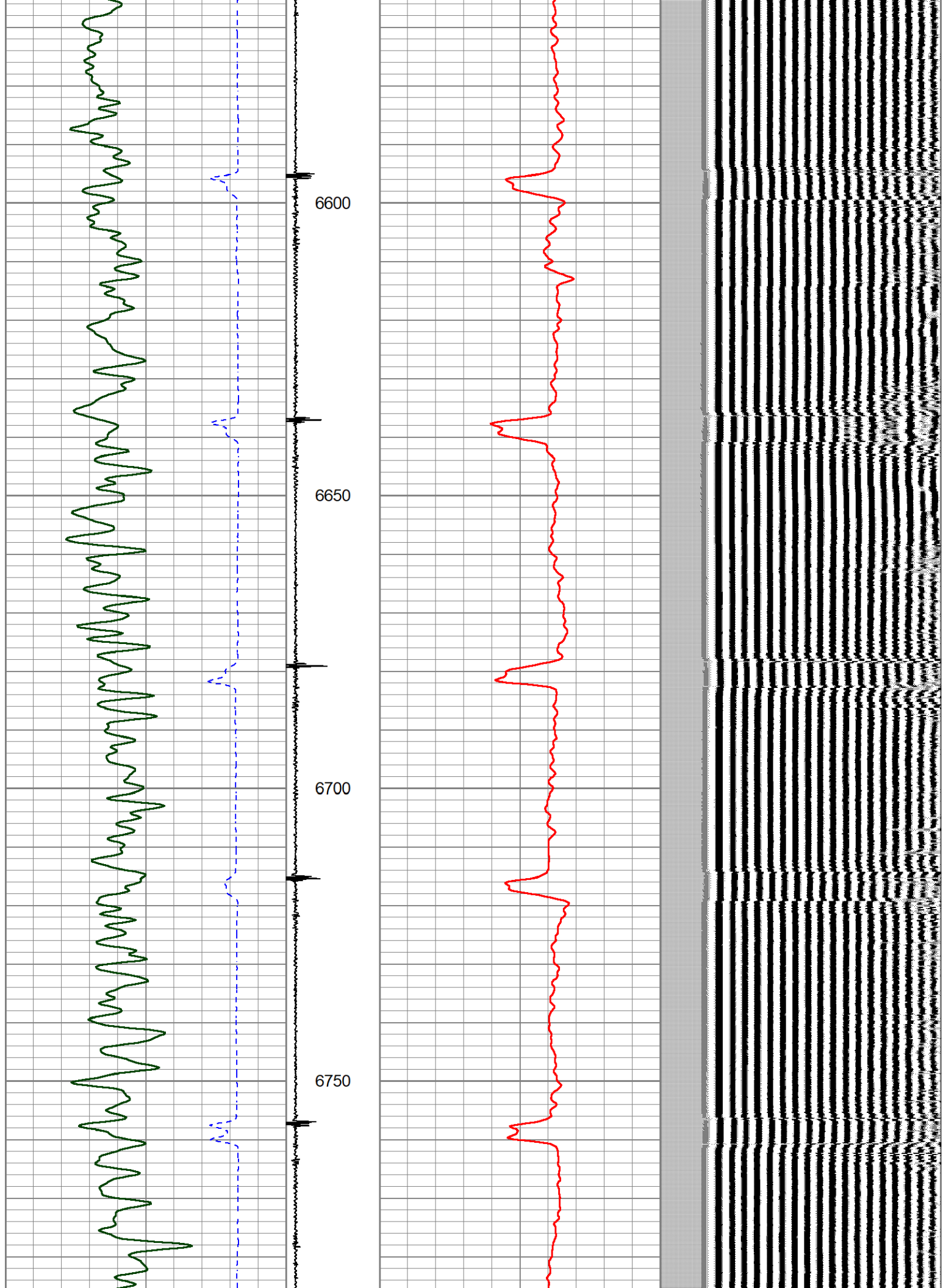


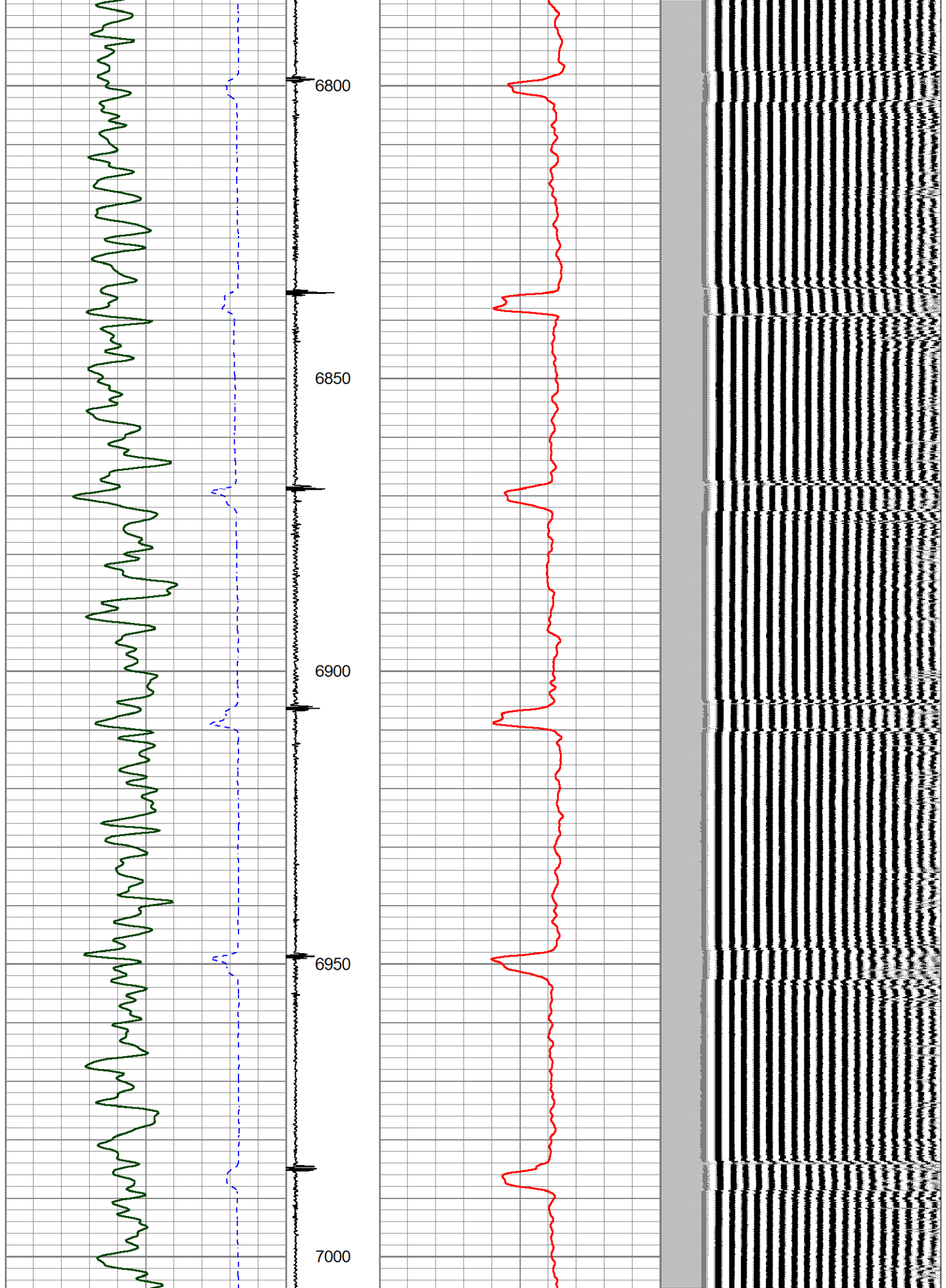


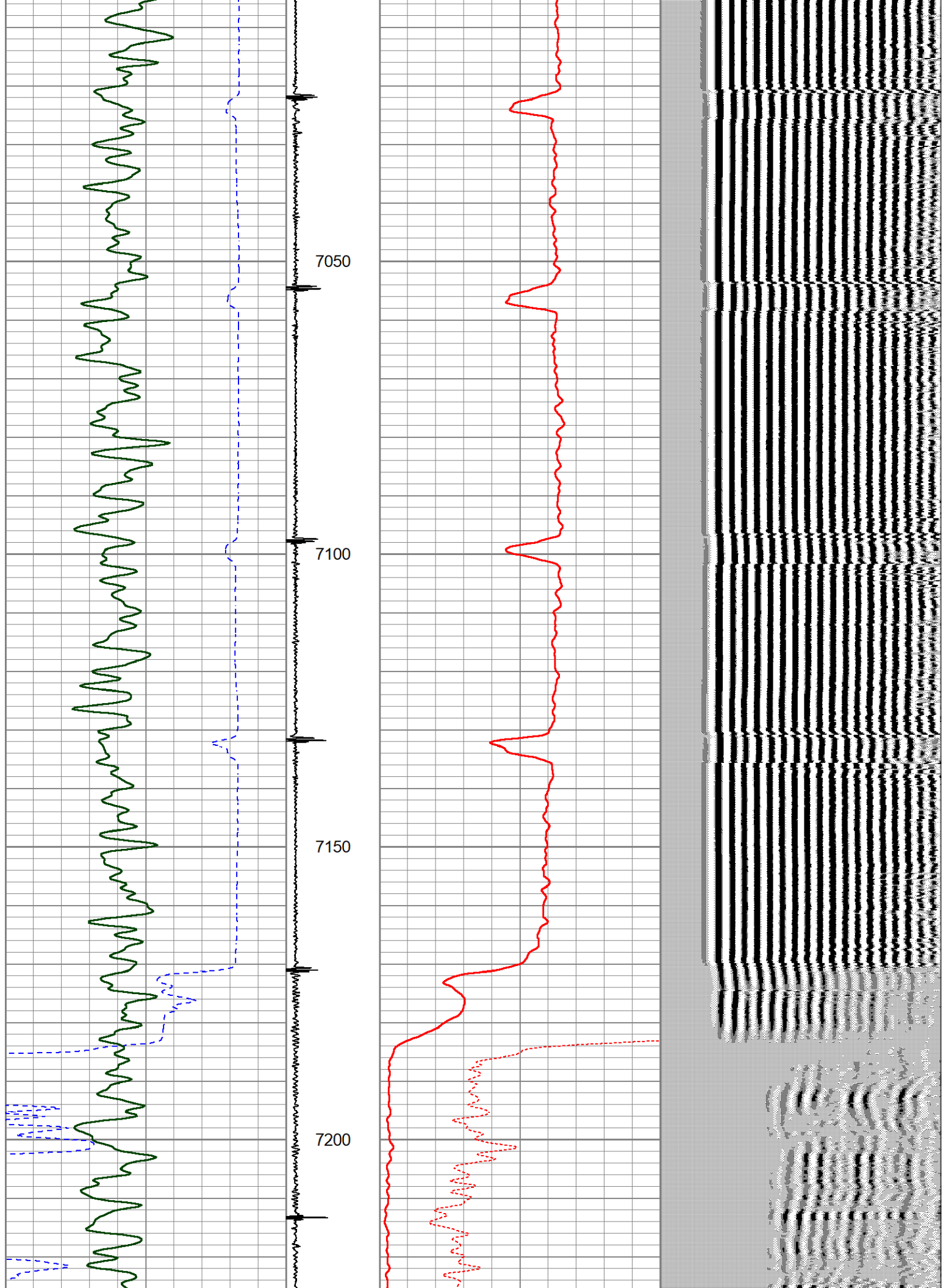


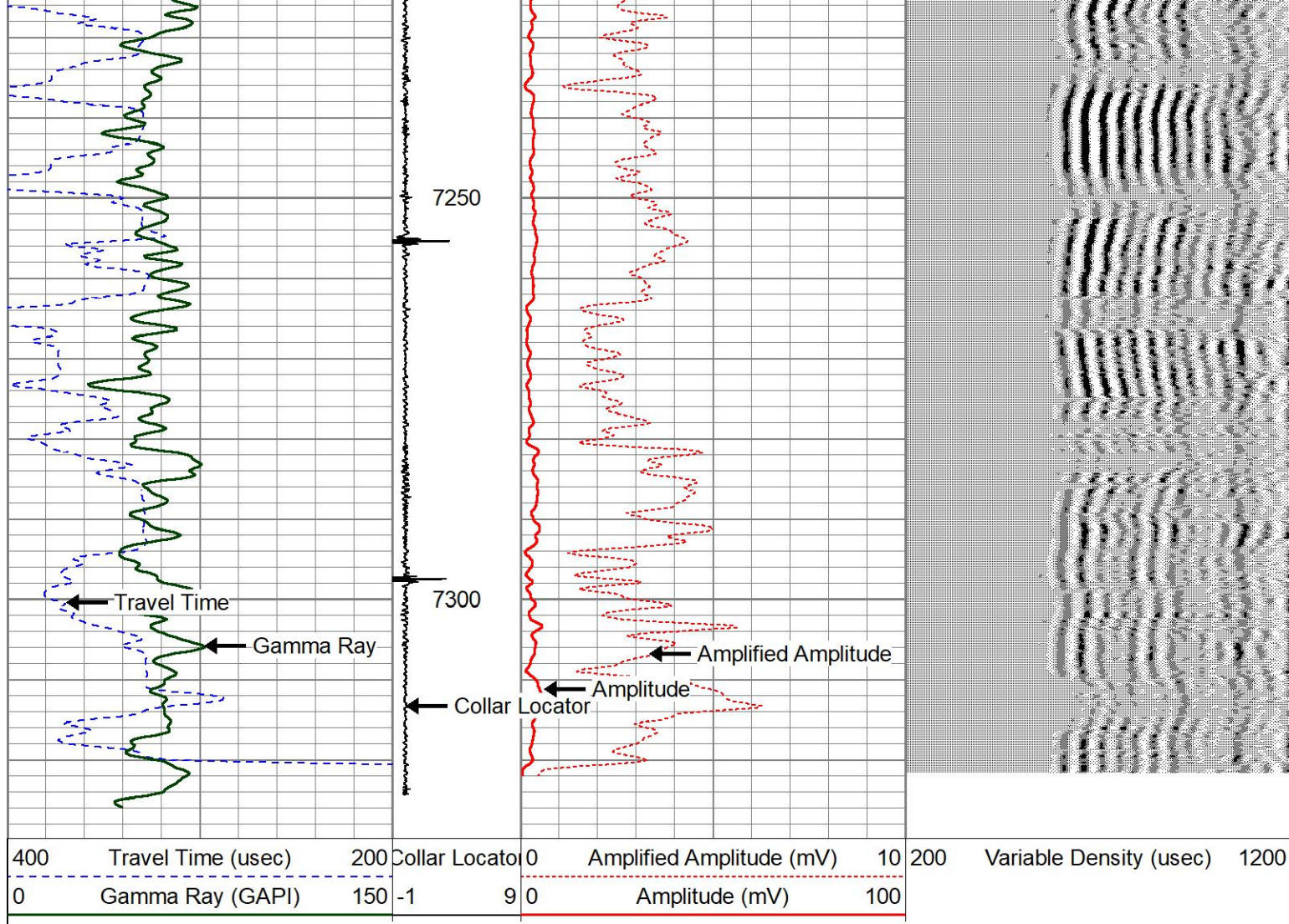








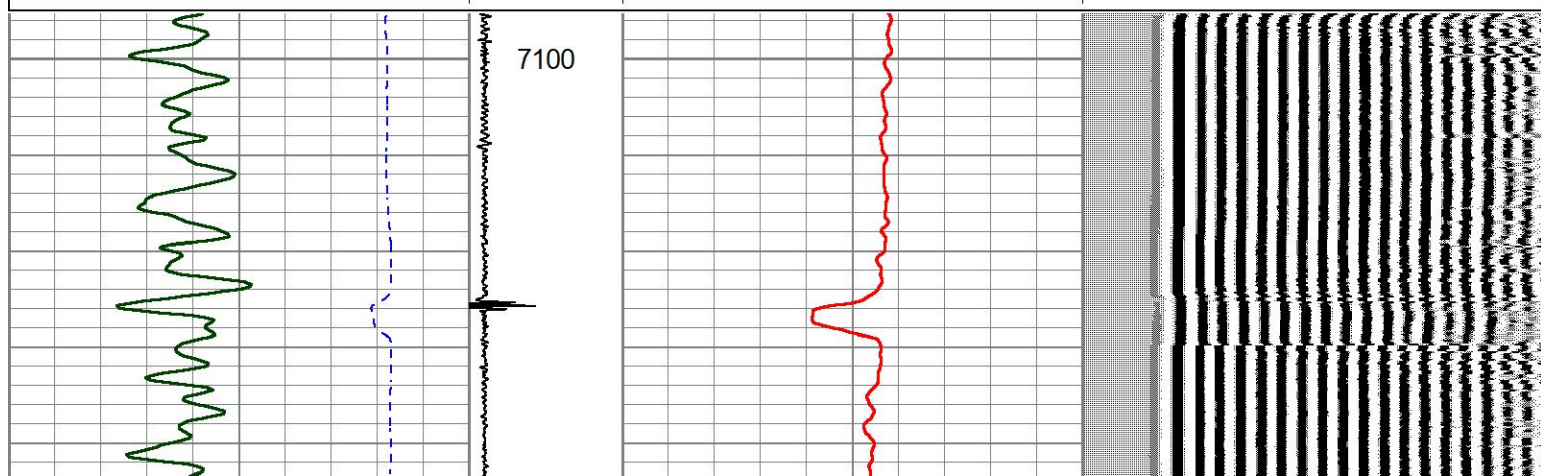
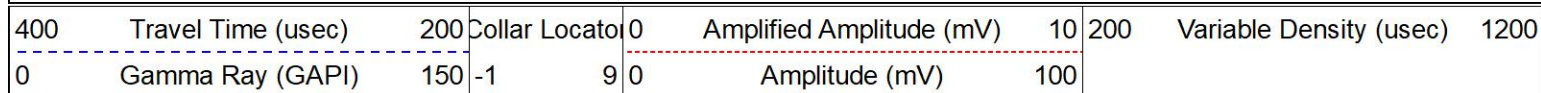


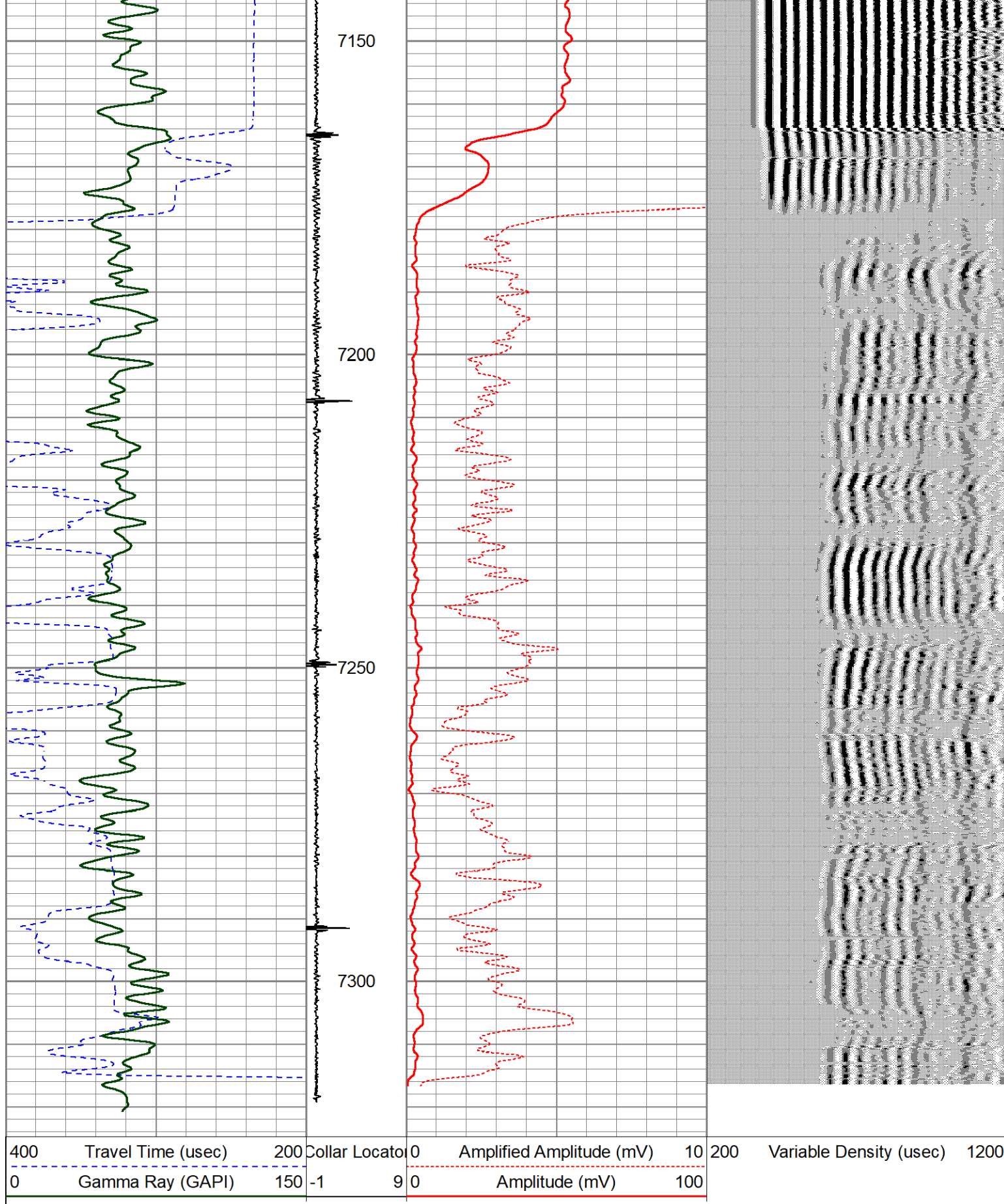


REPEAT PASS - 5"/100'

0 PSI

Database File xog_hippen2-32_cbl_10-25-19.db
 Dataset Pathname pass2
 Presentation Format cbl01
 Dataset Creation Fri Oct 25 14:12:58 2019
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File xog_hippen2-32_cbl_10-25-19.db
Dataset Pathname pass4
Dataset Creation Fri Oct 25 15:26:57 2019

Serial Number: 080832
Tool Model: Probe275dig
Performed: Thu Sep 18 08:13:22 2008

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6250 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1307-48
Tool Model: Probe 2.75 Radii HT

Calibration Casing Diameter: 4.500 in
Calibration Depth: 3.667 ft

Master Calibration, performed Fri Oct 25 13:20:40 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.596	1.000	81.196	150.000	0.667
CAL	0.002	0.710				
5'	0.002	0.567	1.000	81.196	142.133	0.648
SUM						
S1	0.002	0.596	0.000	100.000	168.619	-0.416
S2	0.002	0.586	0.000	100.000	171.252	-0.422
S3	0.002	0.586	0.000	100.000	171.395	-0.418
S4	0.002	0.588	0.000	100.000	170.756	-0.417
S5	0.002	0.602	0.000	100.000	166.833	-0.403
S6	0.002	0.608	0.000	100.000	165.095	-0.403
S7	0.002	0.596	0.000	100.000	168.556	-0.409
S8	0.002	0.589	0.000	100.000	170.557	-0.421

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.710	1.000	0.000

Air Zero Calibration, performed Fri Oct 25 13:21:03 2019:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.004	0.000	-0.001
5'	0.008	0.000	-0.006
SUM			
S1	0.015	0.000	-0.012
S2	0.005	0.000	-0.002
S3	0.004	0.000	-0.001
S4	0.004	0.000	-0.001
S5	0.004	0.000	-0.002
S6	0.004	0.000	-0.002
S7	0.003	0.000	-0.001
S8	0.004	0.000	-0.002

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-Titan Titan 1 7/16" GO Cablehead	1.00	1.44	5.00
			RBT-Probe 2.75 Radii HT (FW1307-48) RADII HT	11.28	2.75	130.00
WVFS8	9.35					
WVFS7	9.35					
WVFS6	9.35					
WVFS5	9.35					
WVFS4	9.35					
WVFS3	9.35					
WVFS2	9.35					
WVFS1	9.35					
WVFCAL	9.35					
WVF3FT	9.35					
WVF5FT	8.35					
CCL	5.44					
			GR-Probe275dig (080832) HT Probe 2 3/4" Gamma CCL	5.17	1.69	57.00
GR	1.42					

Dataset:
xog_hippen2-32_cbl_10-25-19.db: field/well/run1/pass4

Total length:
17.45 ft

Total weight:
192.00 lb

O.D.:
2.75 in

