

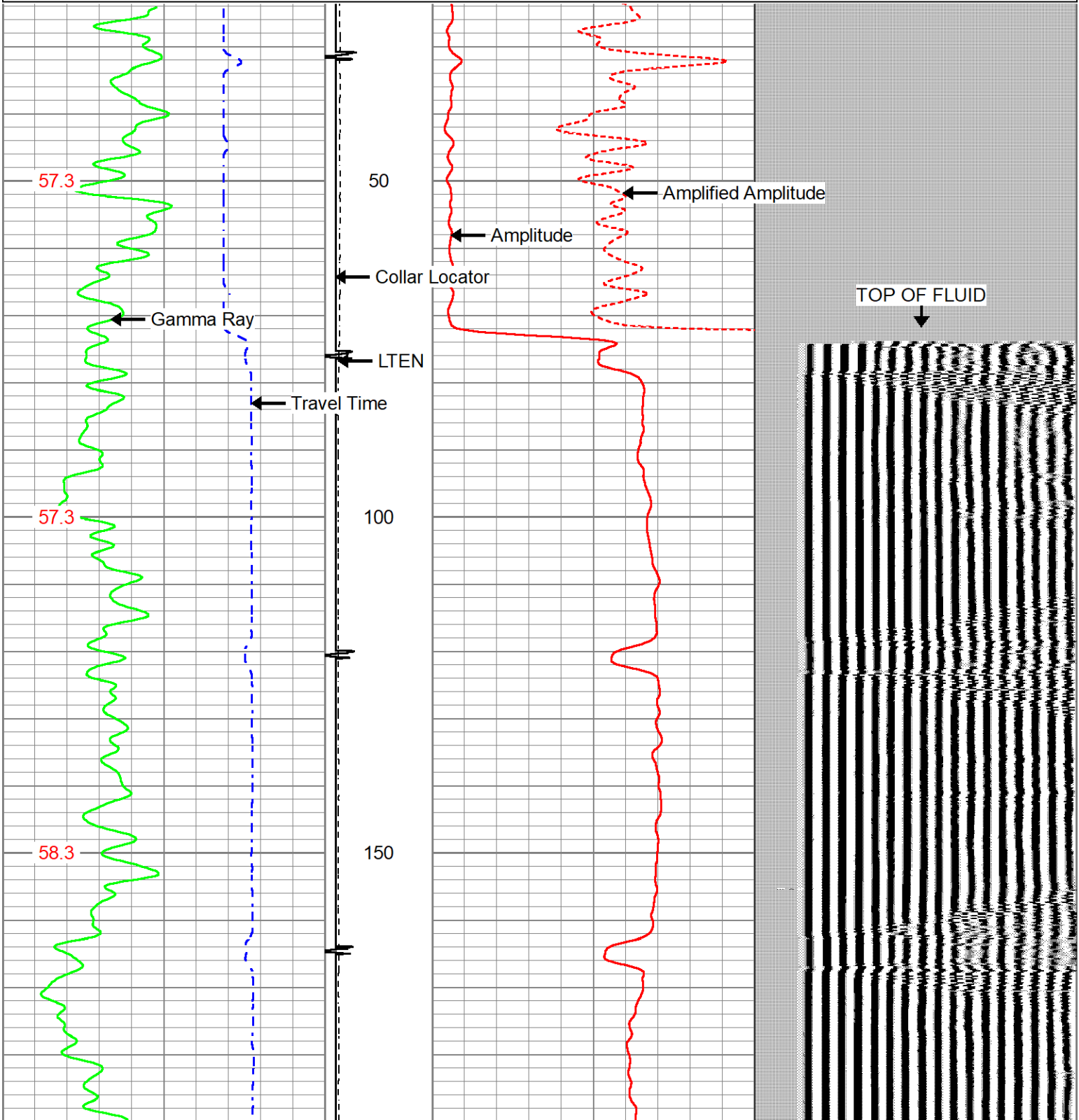


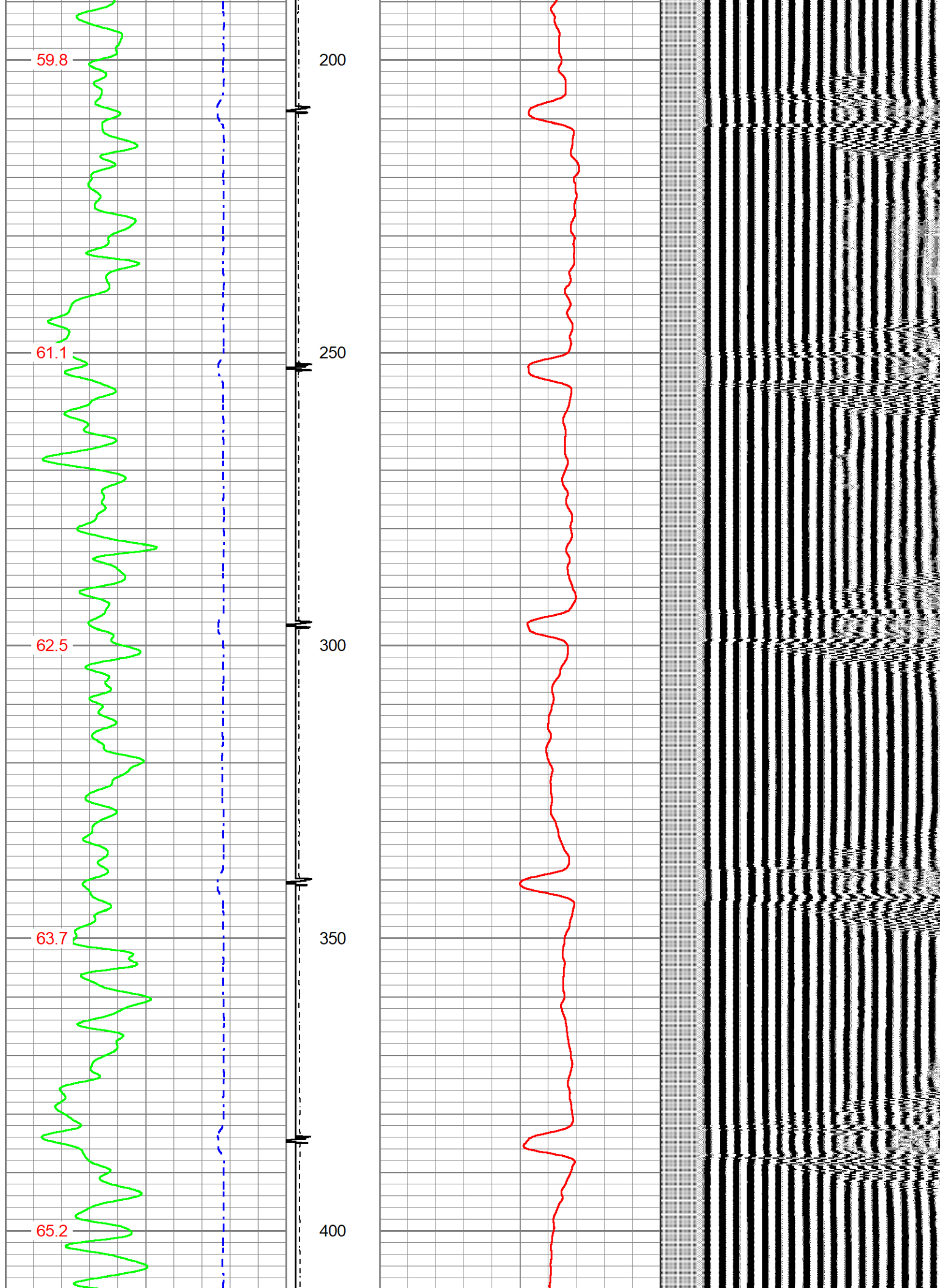
<<< Fotd Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
TOOLS RUN AS PER TOOL DIAGRAM TOOLSTRING CENTRALIZED VIA 2 X GEMCO CENTRALIZERS LOG CORRELATED TO MARKER JOINT @ 10254' - 10263' THANK YOU FOR CHOOSING KLX ENERGY SERVICES

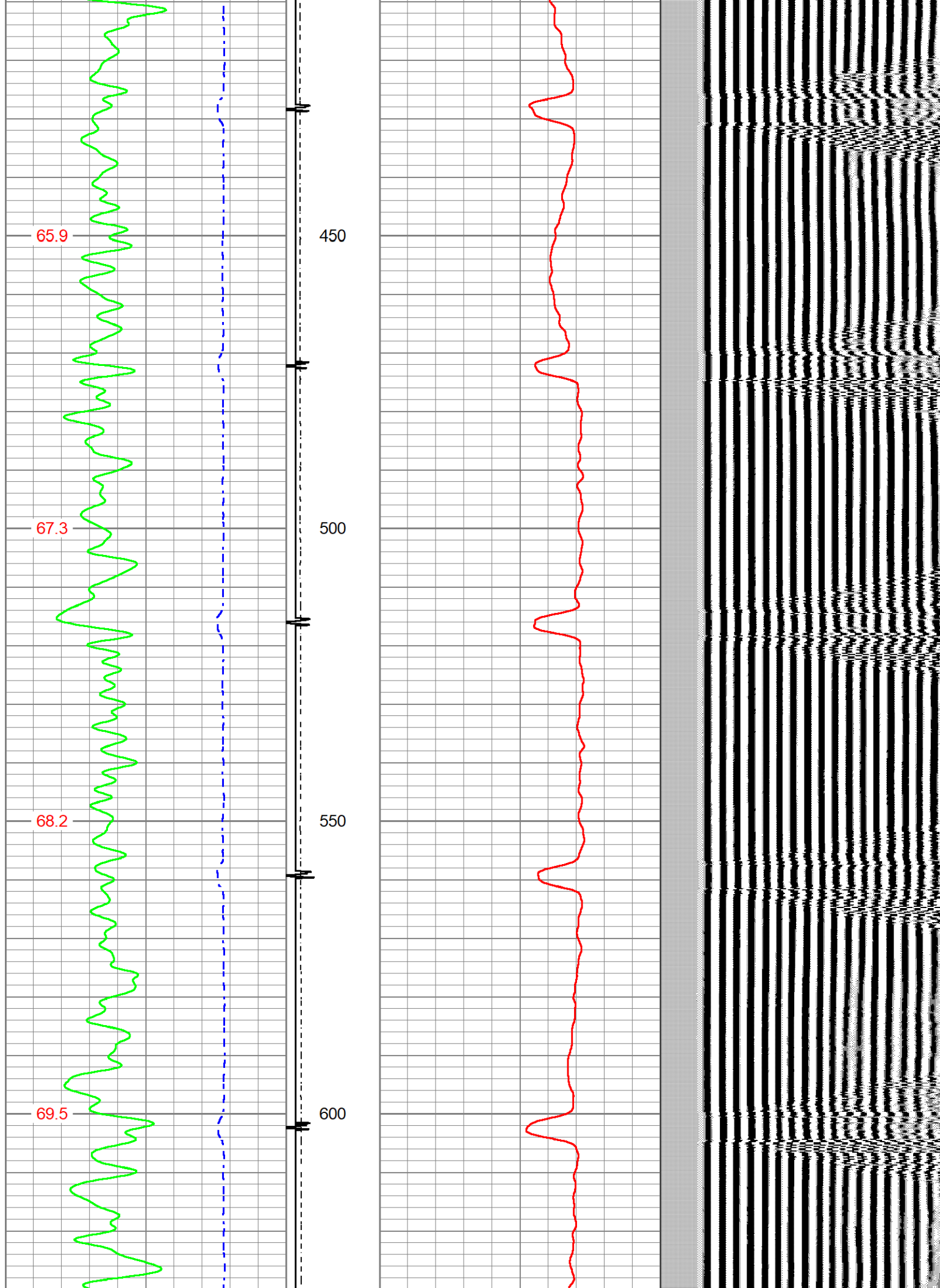


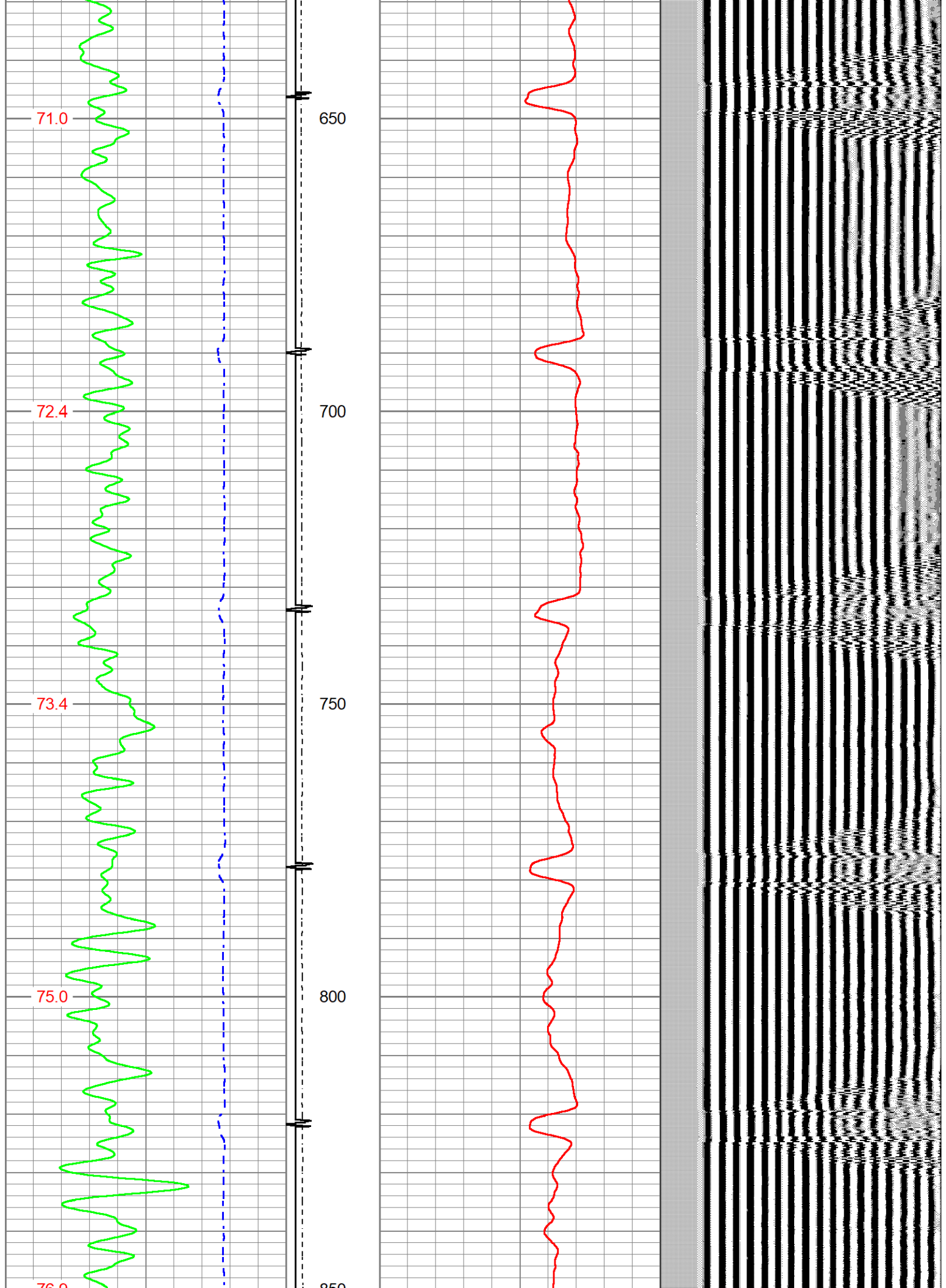
Database File	gw_ottesen_06-370hc.db
Dataset Pathname	run2cbl/pass9
Presentation Format	cbl_cs
Dataset Creation	Fri Jan 25 14:46:33 2019
Charted by	Depth in Feet scaled 1:240

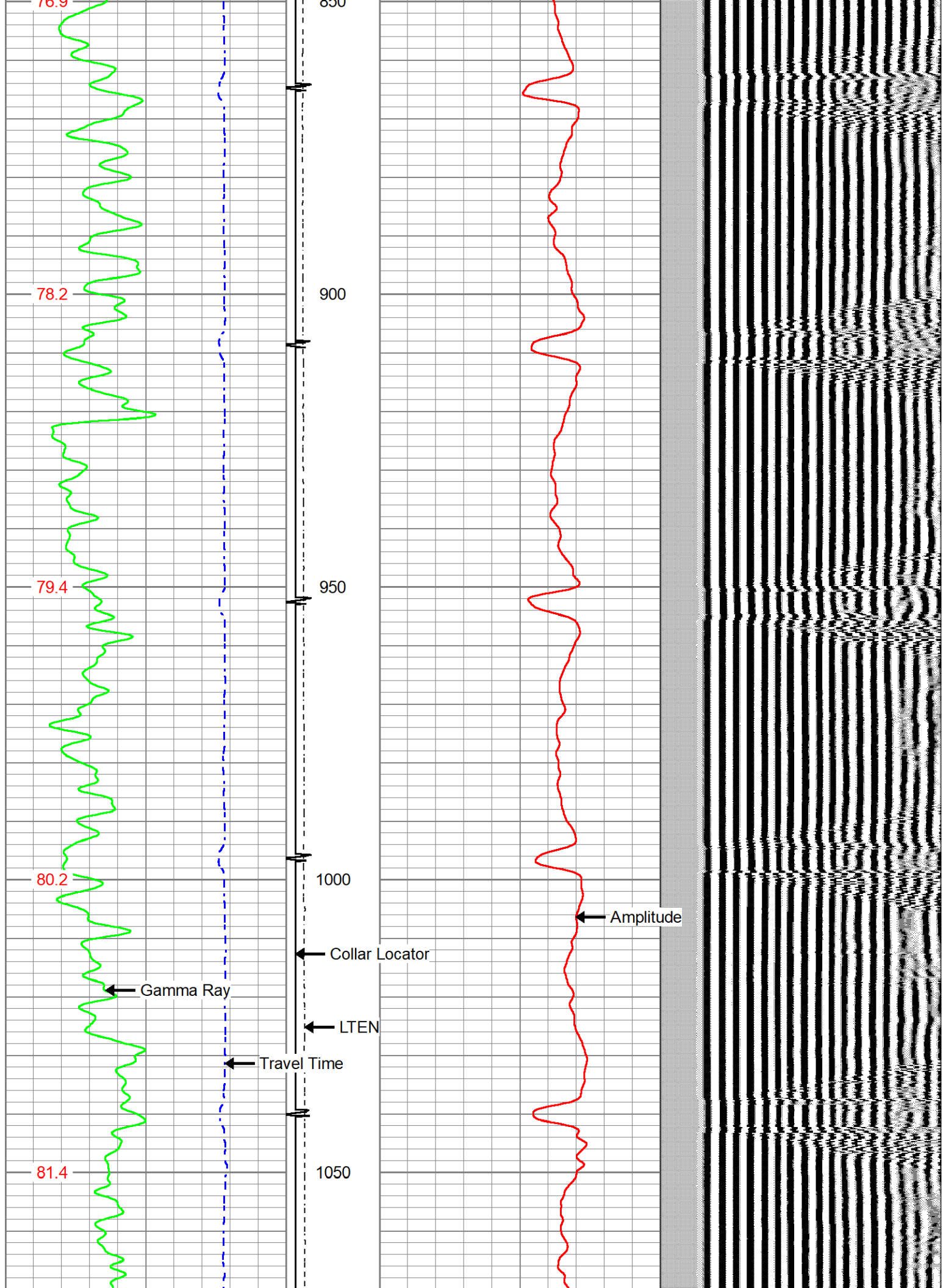
420	Travel Time (usec)	220	Collar Locator	0	Amplified Amplitude (mV)	10	200	Variable Density (usec)	1200
0	Gamma Ray (GAPI)	150	-1	9	0	Amplitude (mV)	100		
Temp (degF)		Line Speed (ft/min)							
		0	200						
		LTEN							
		0	(lb2000						

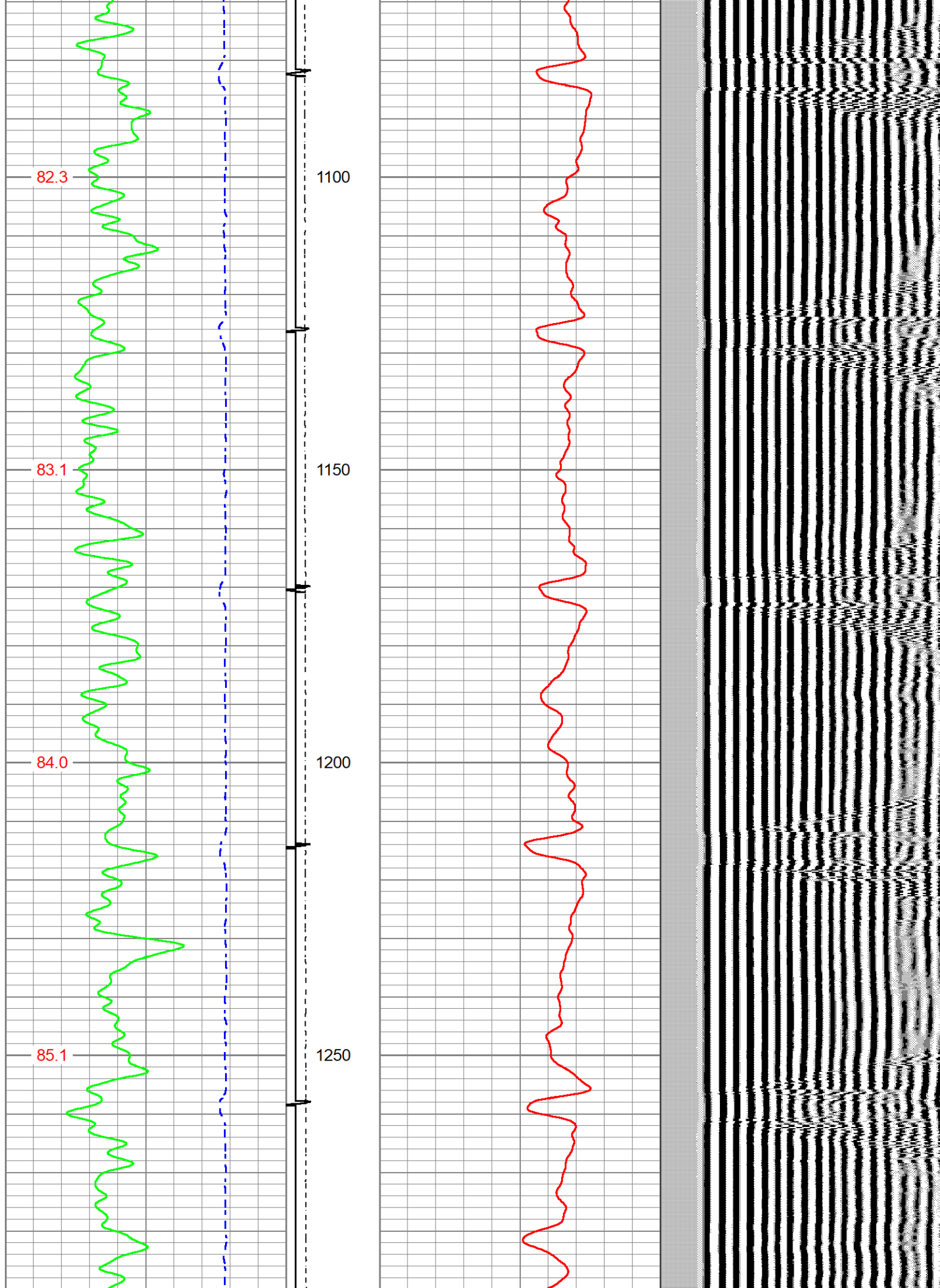


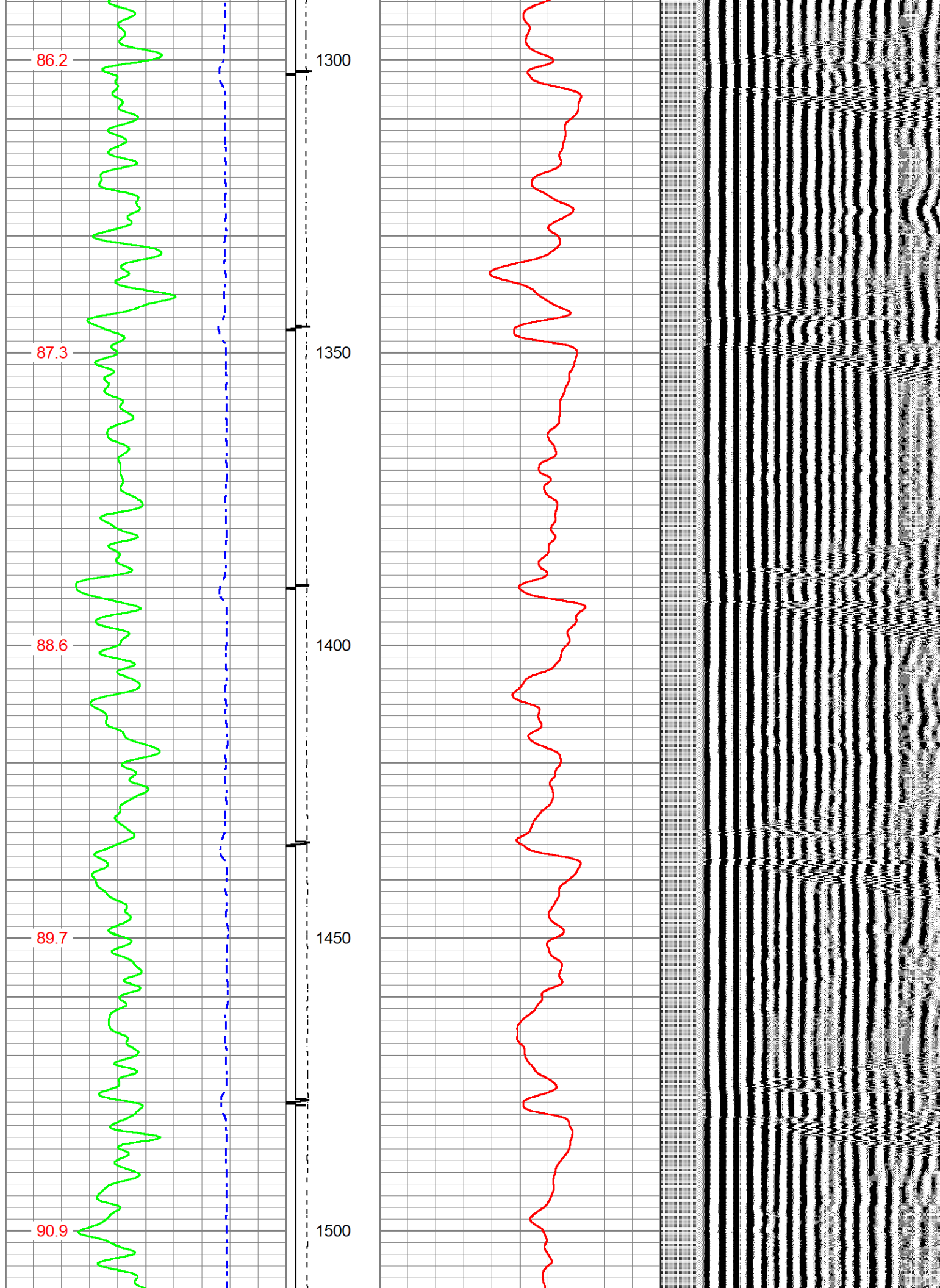


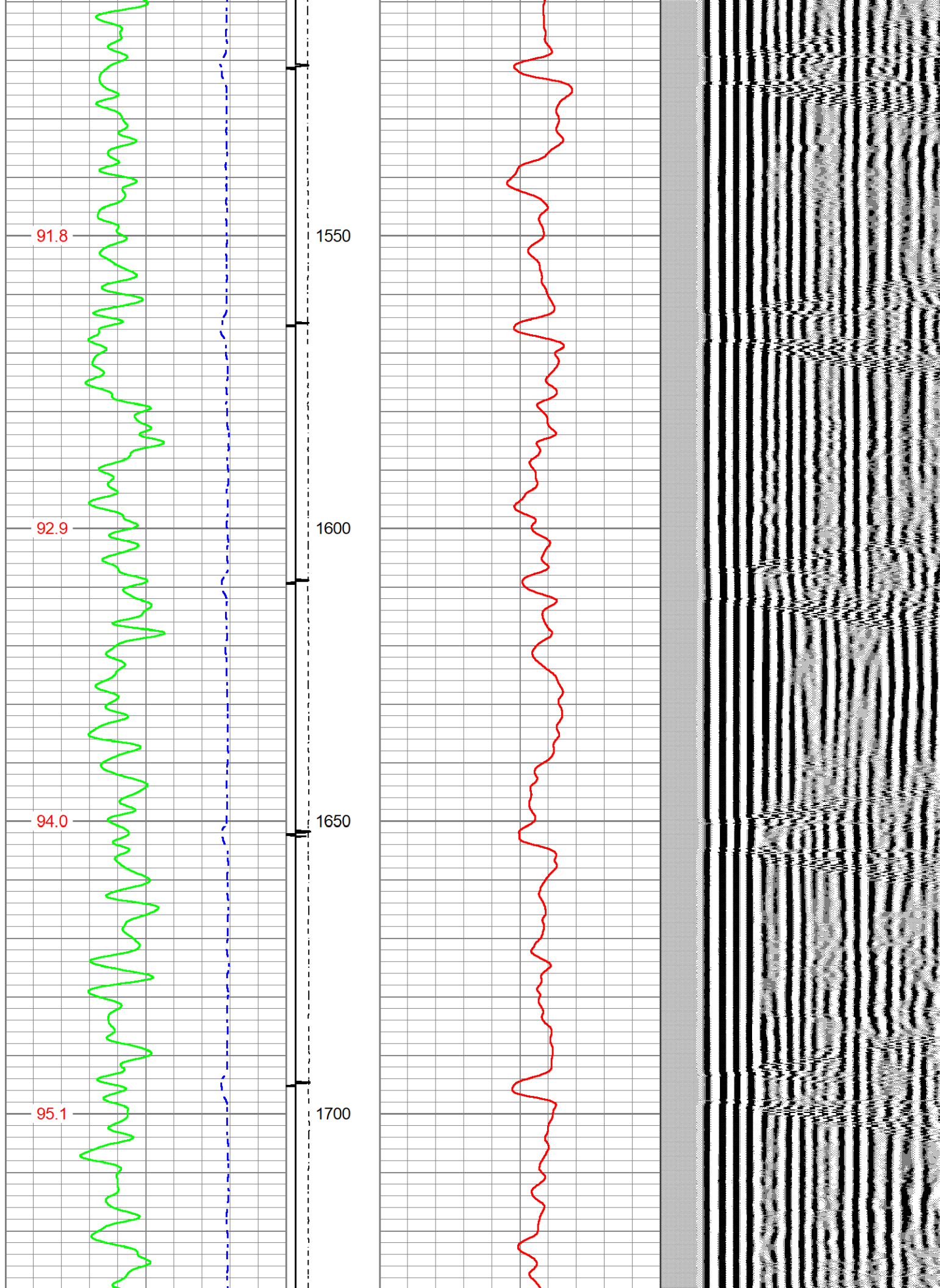


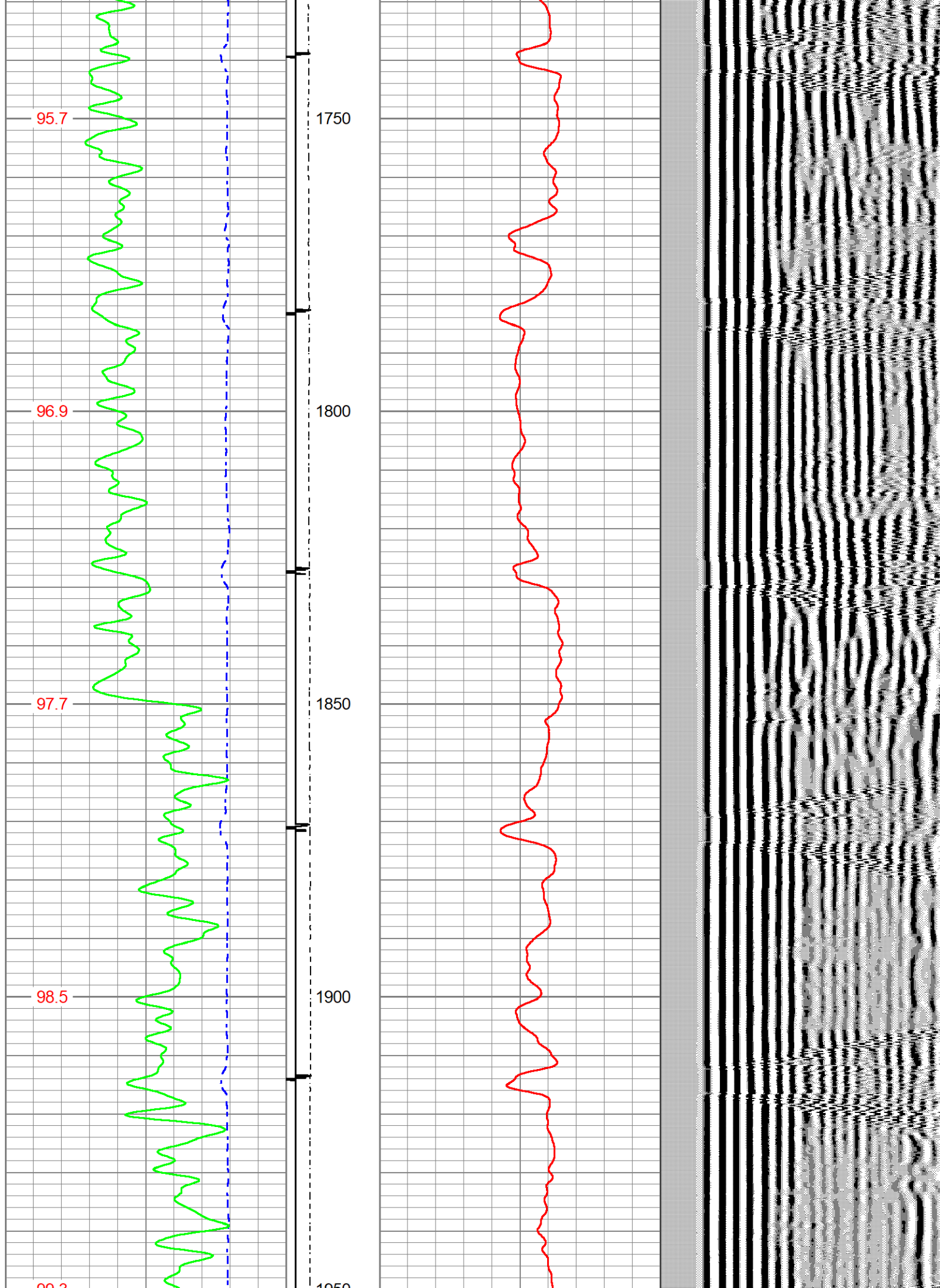


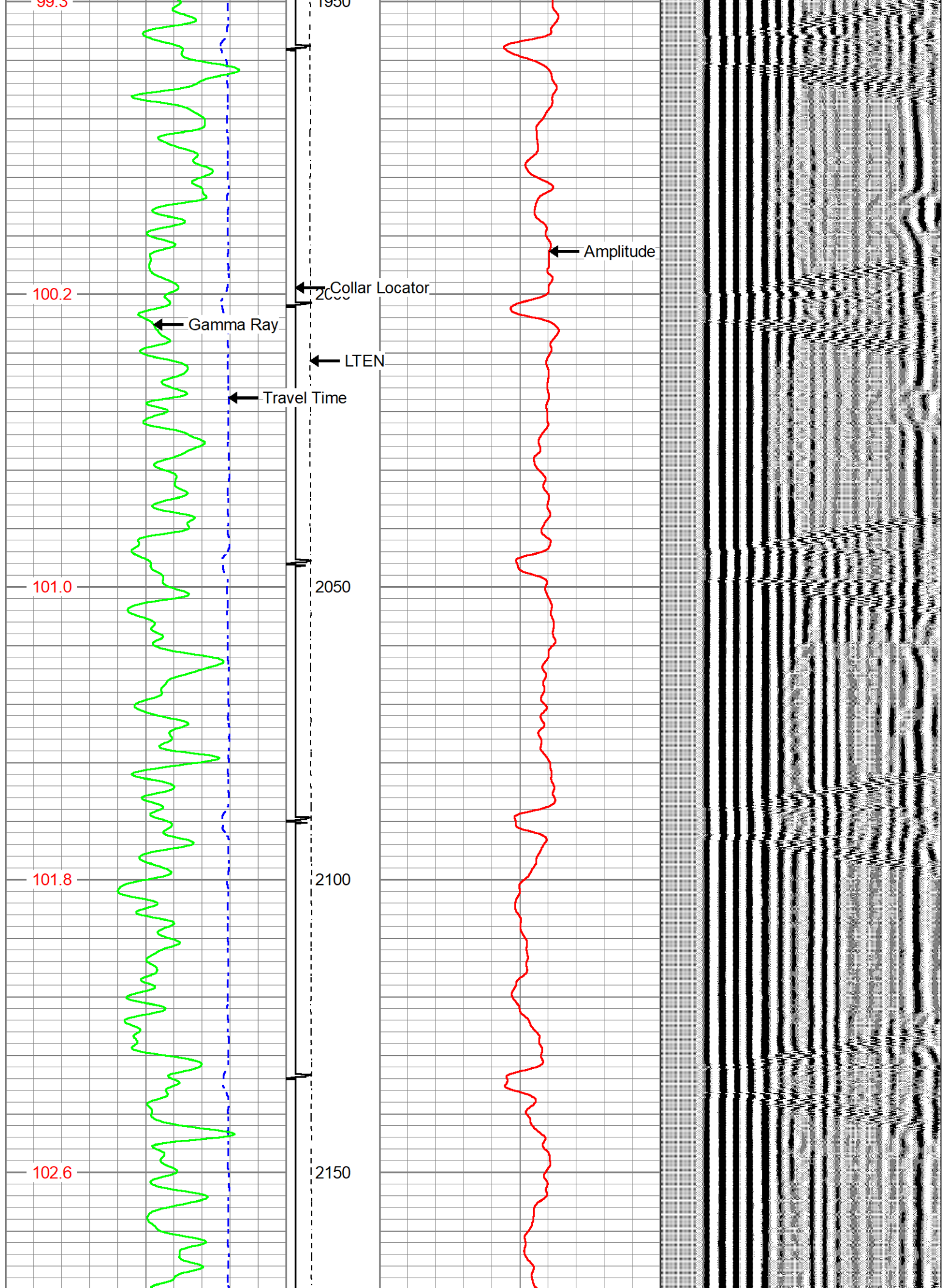


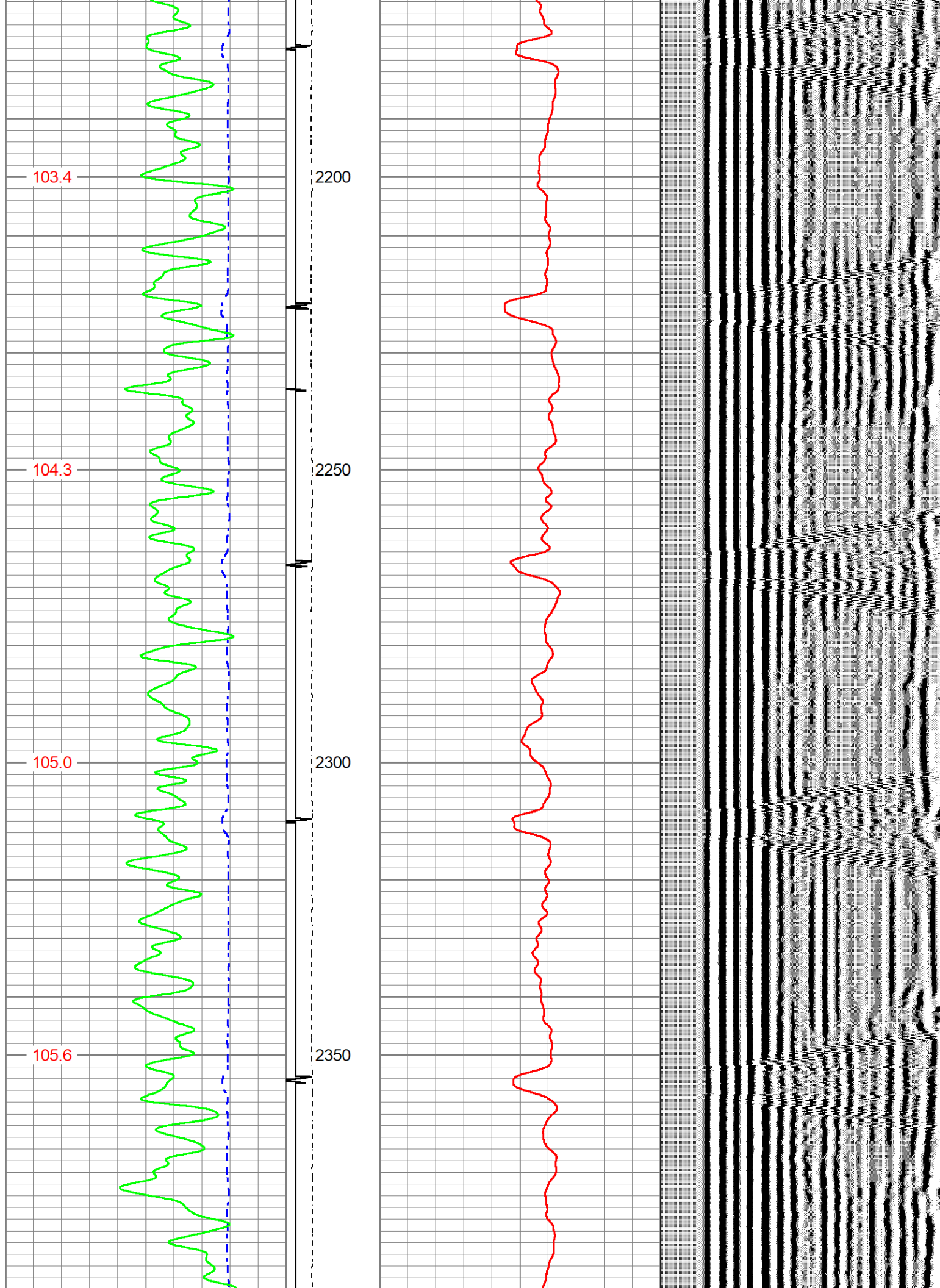


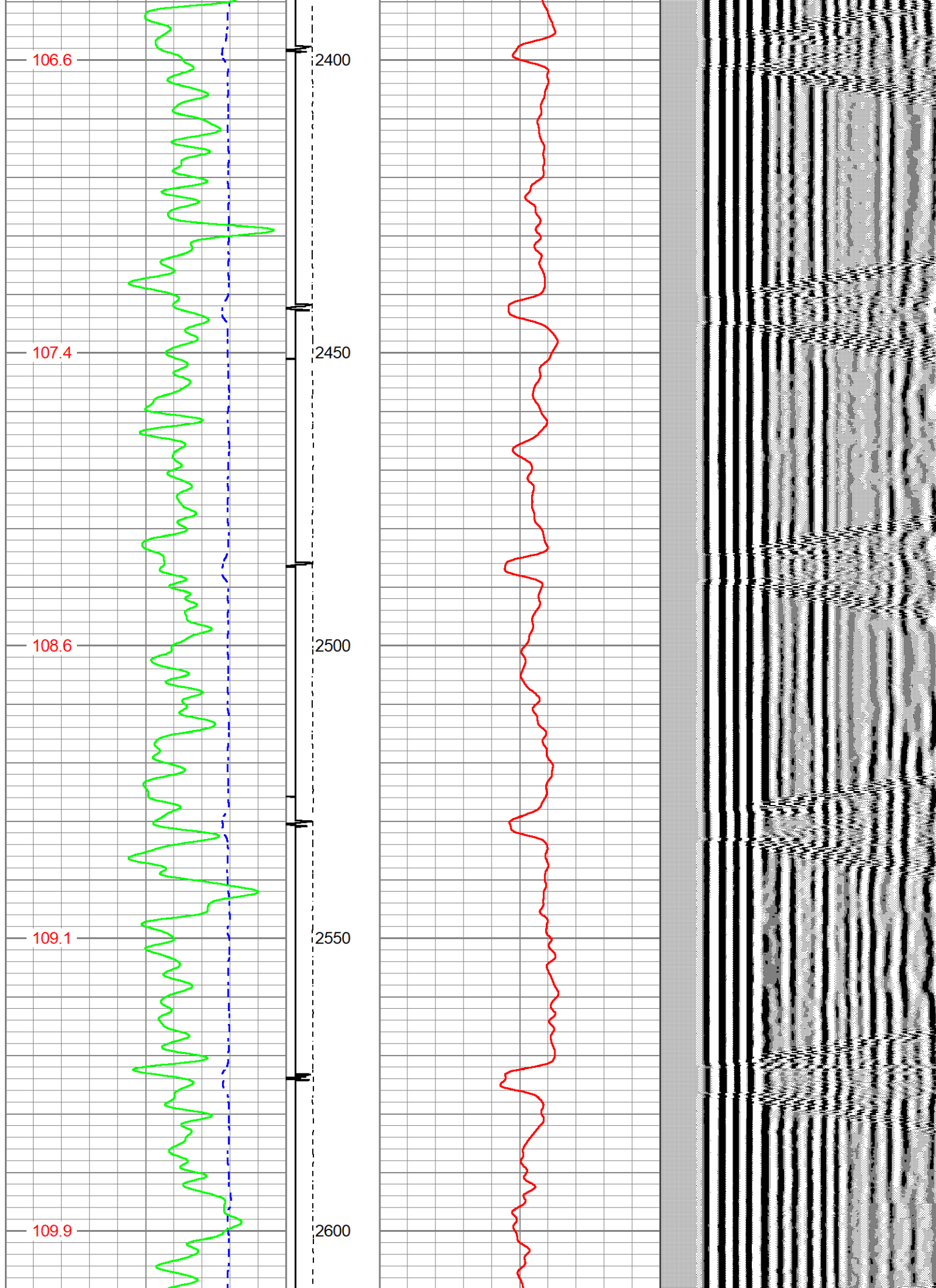


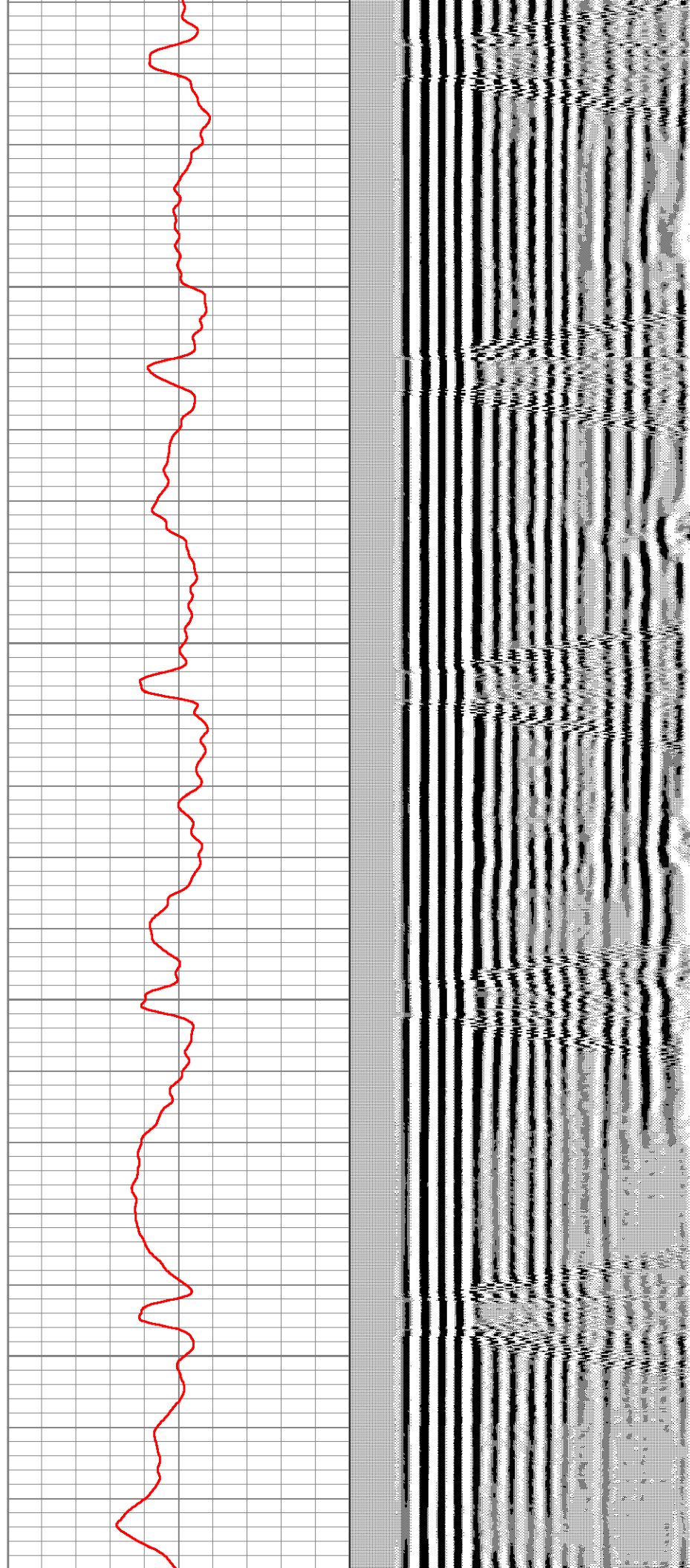
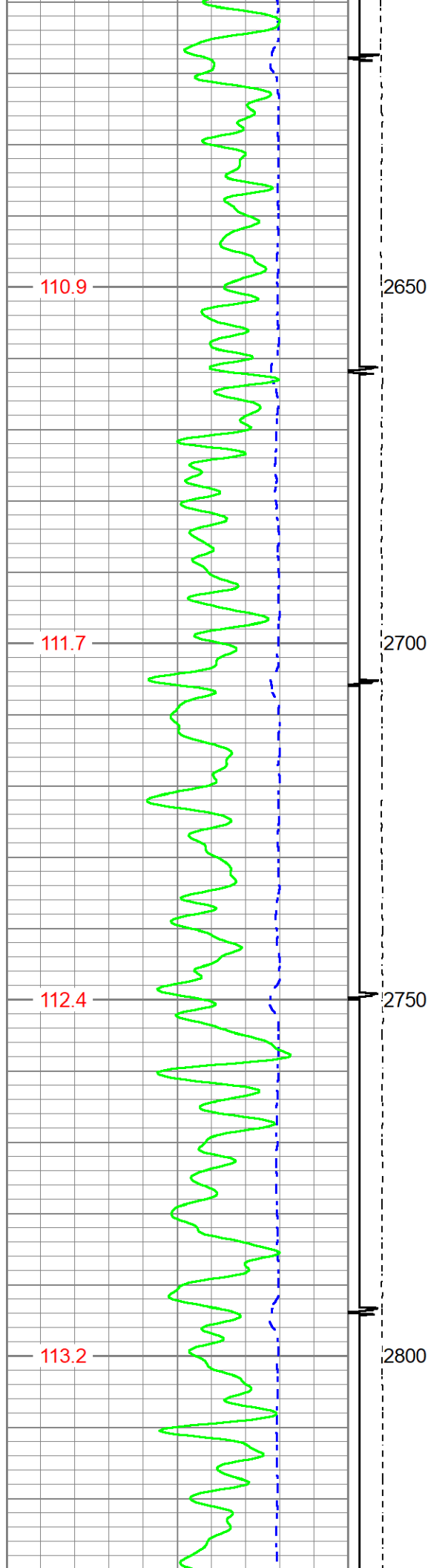


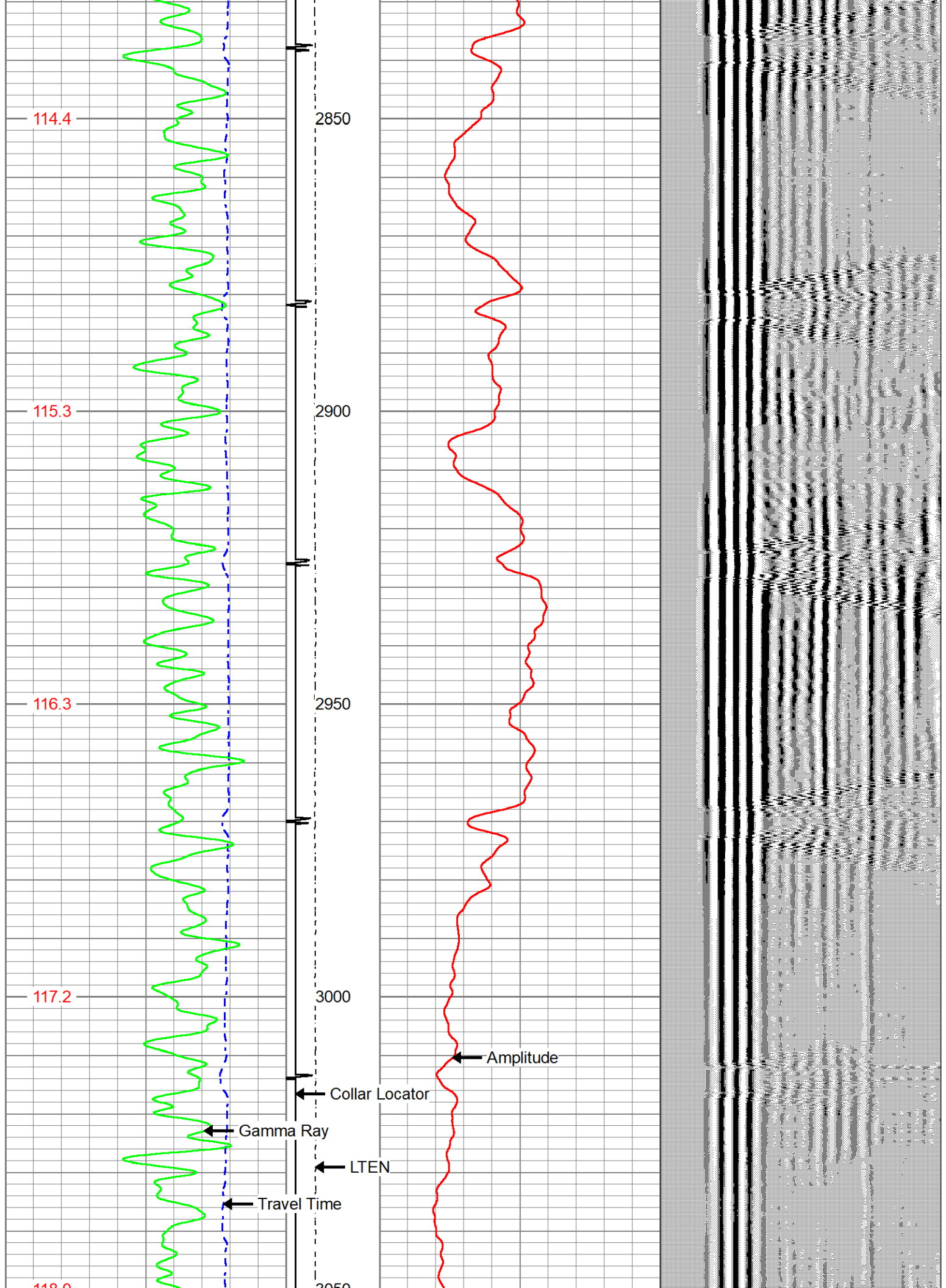


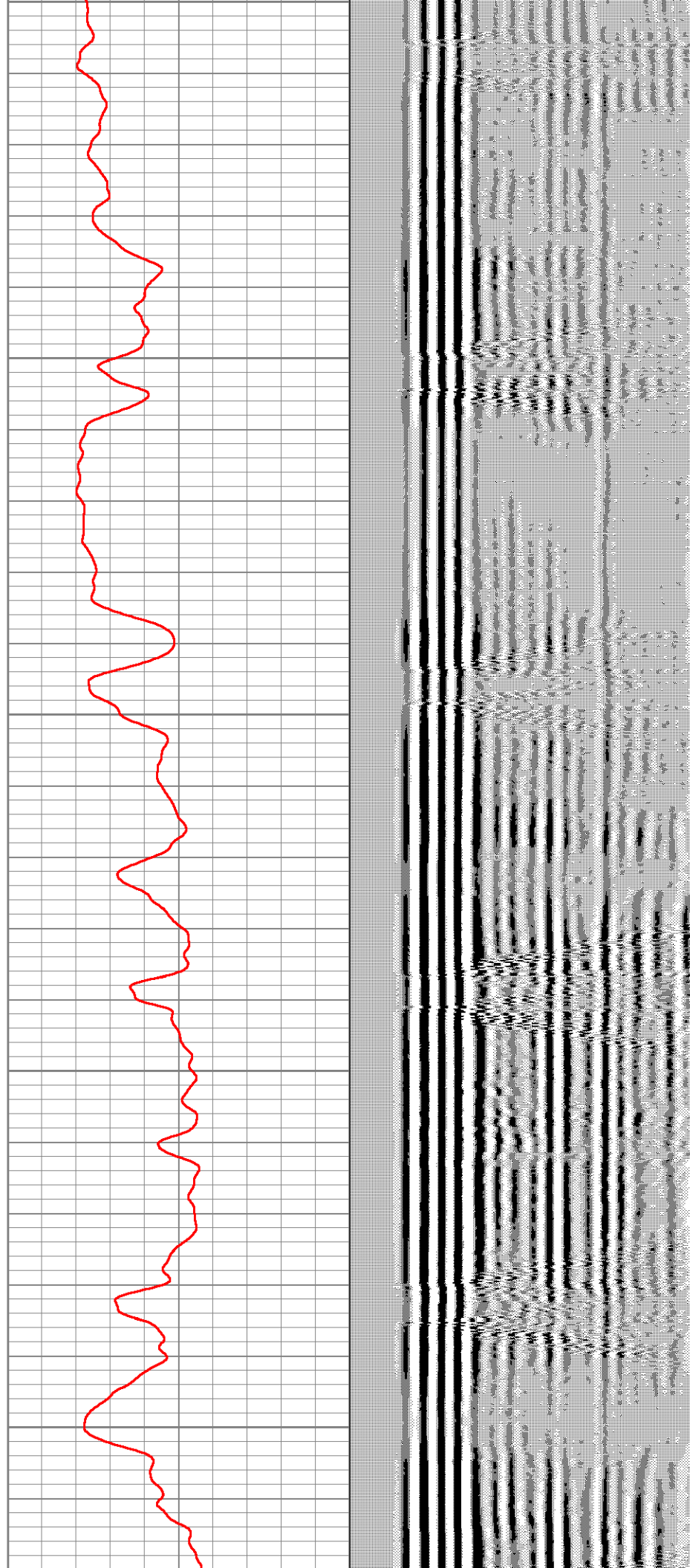
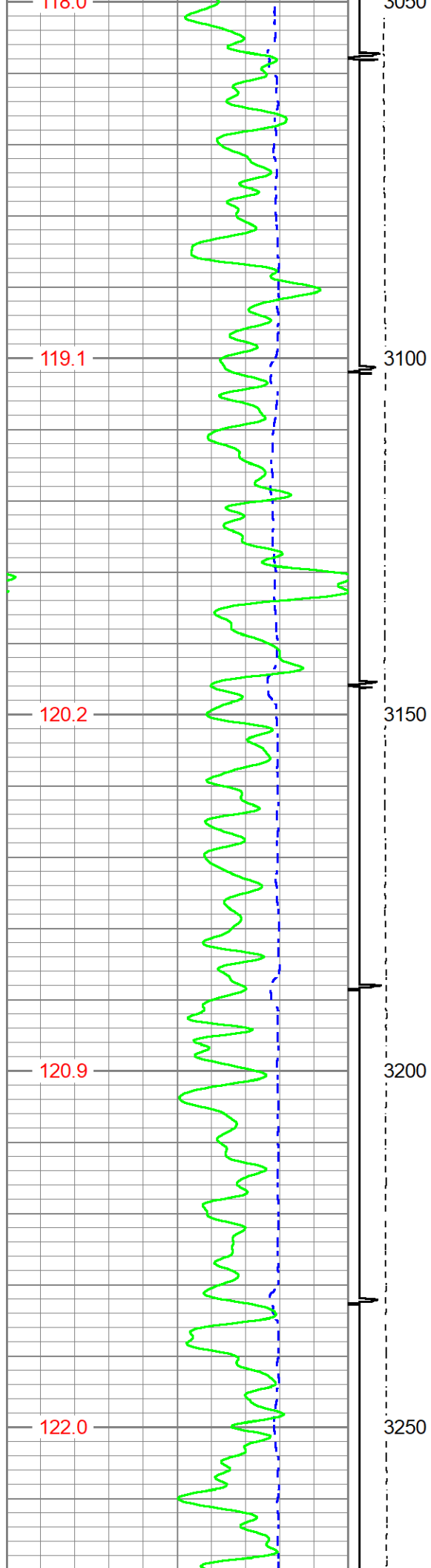


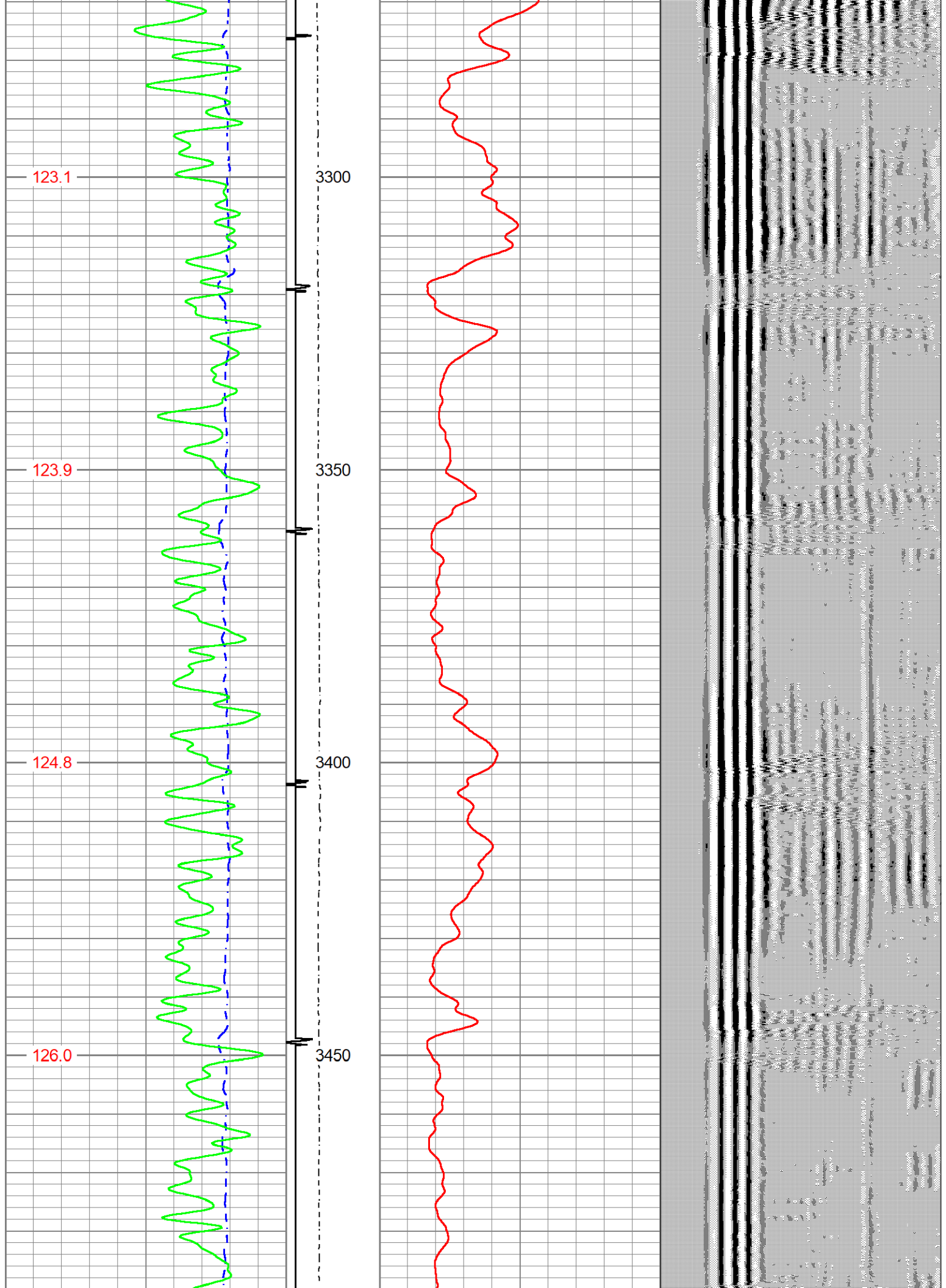


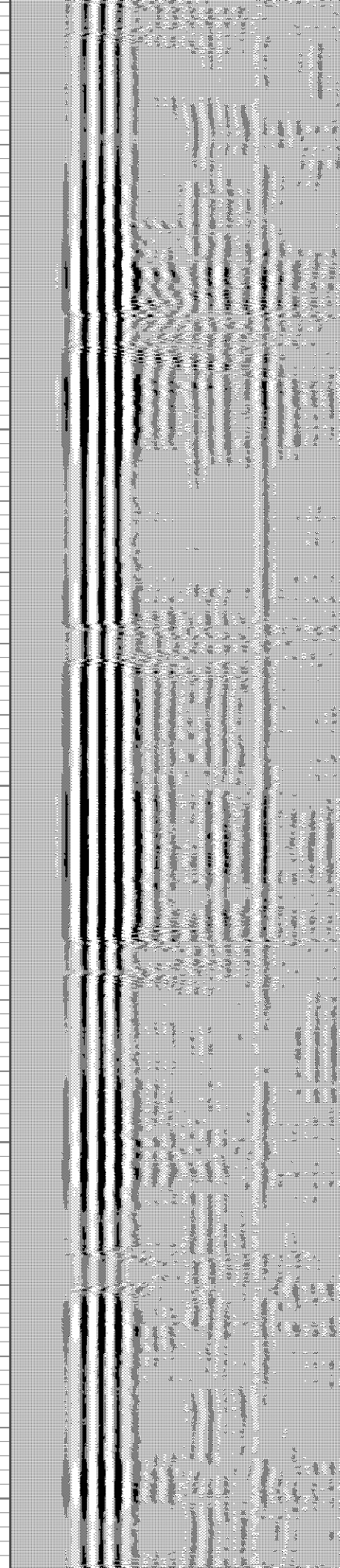
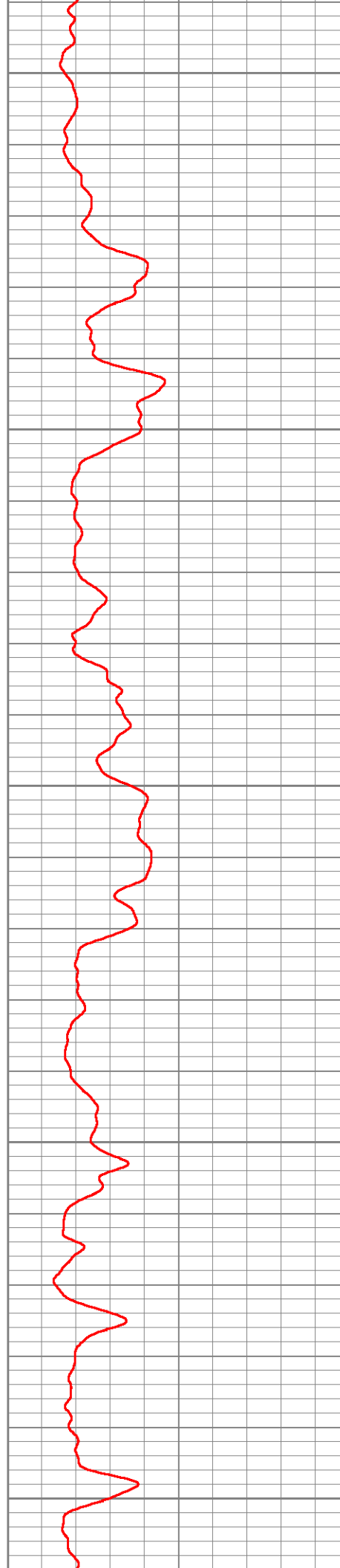
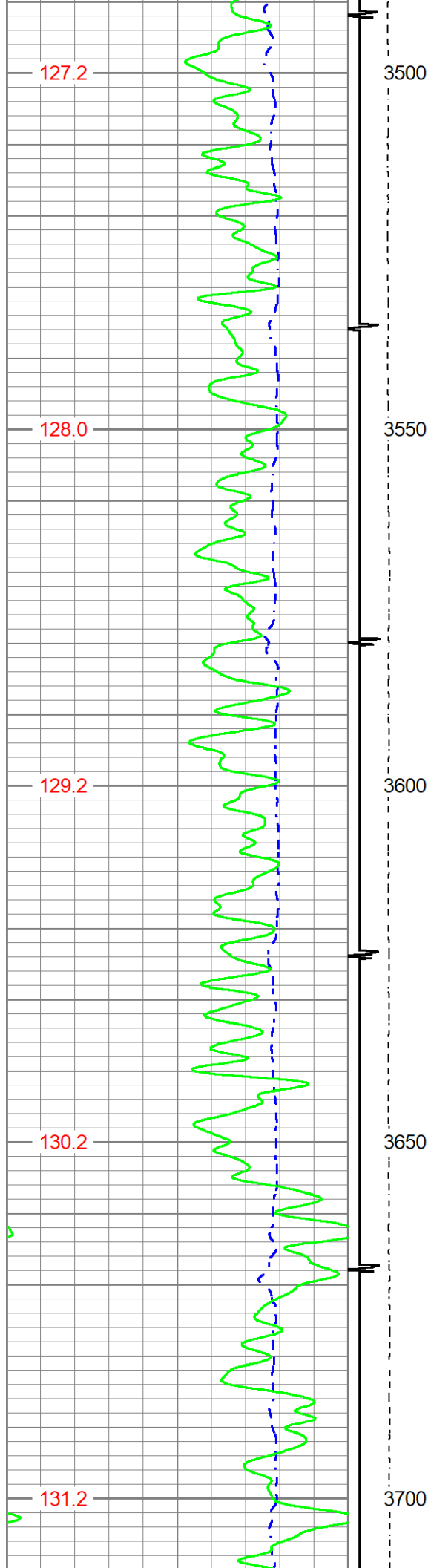


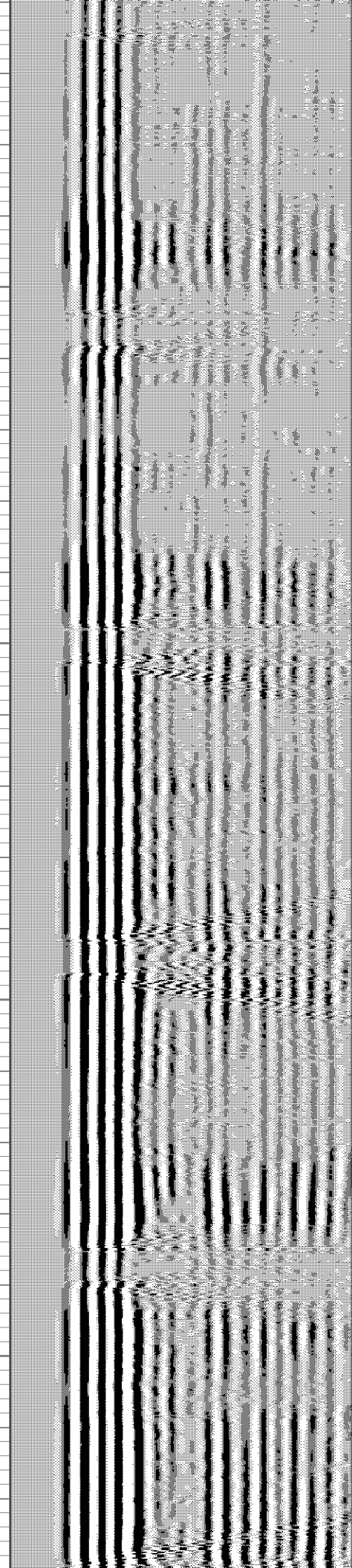
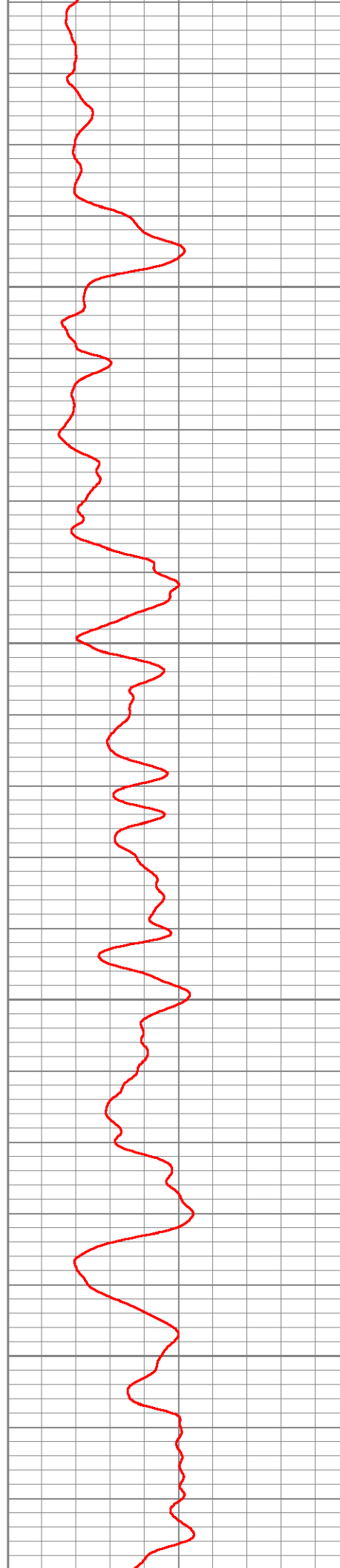
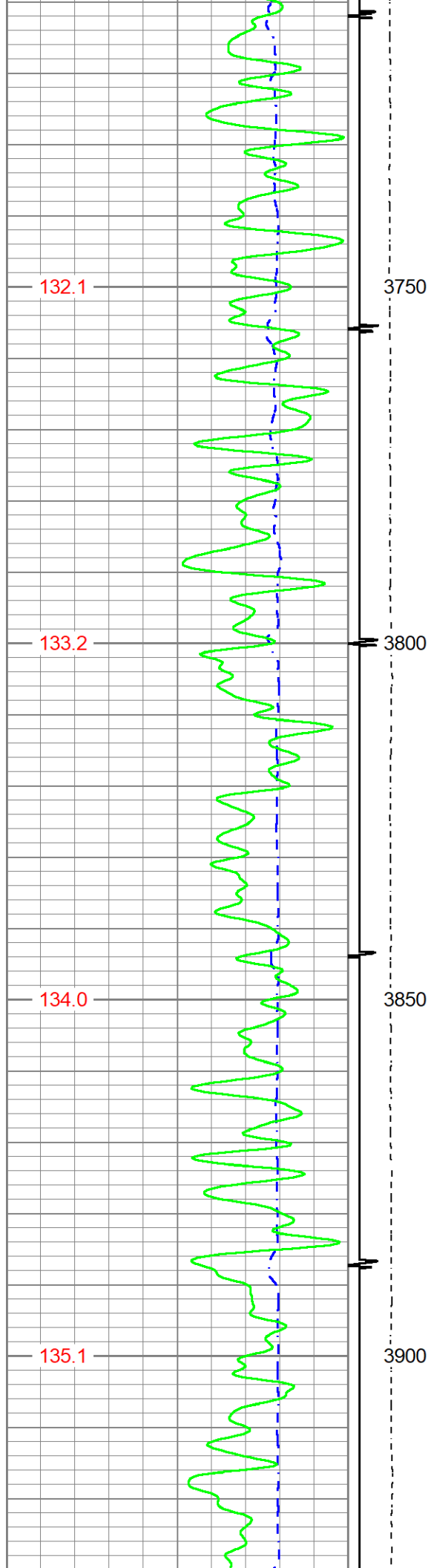


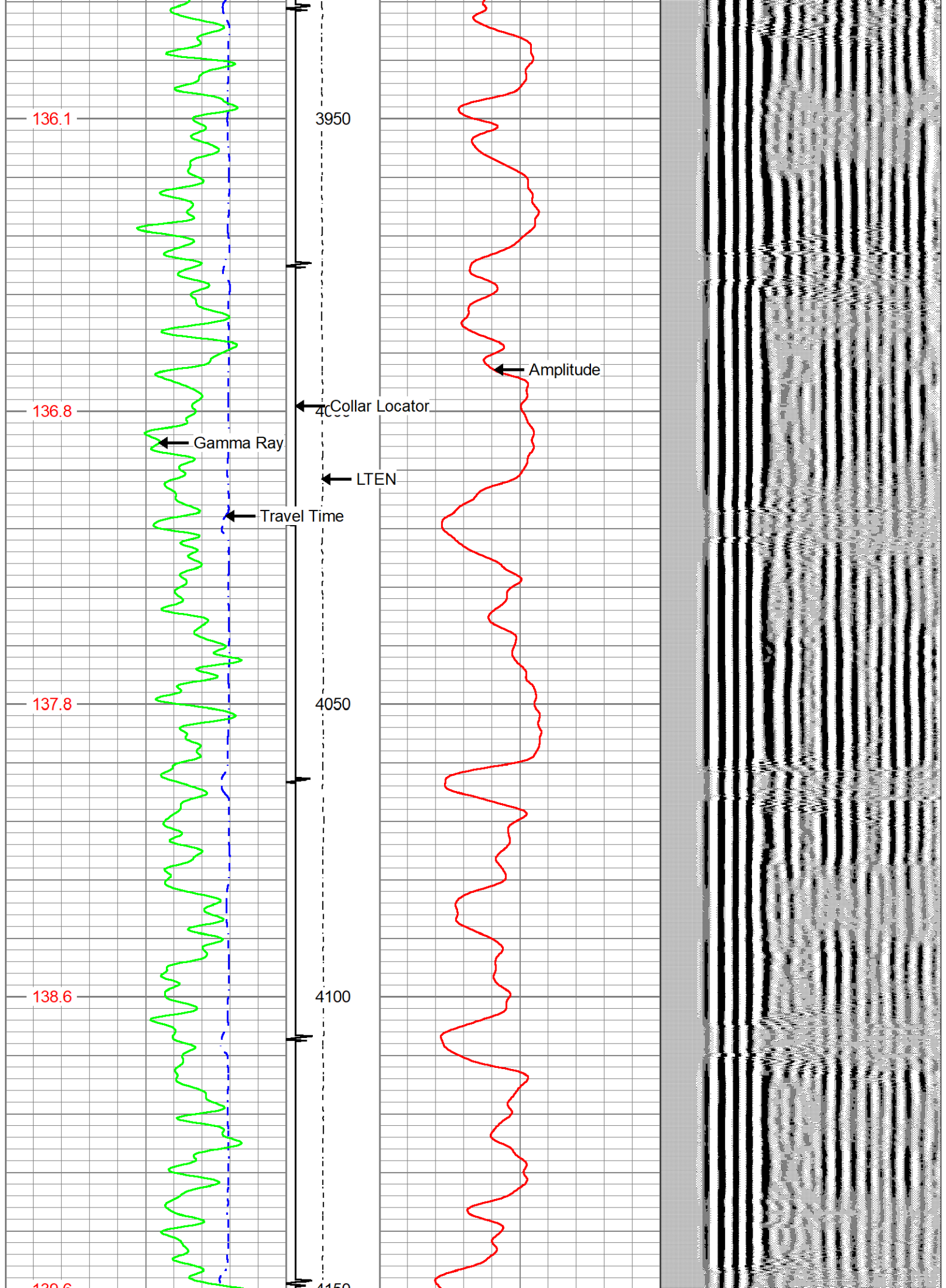


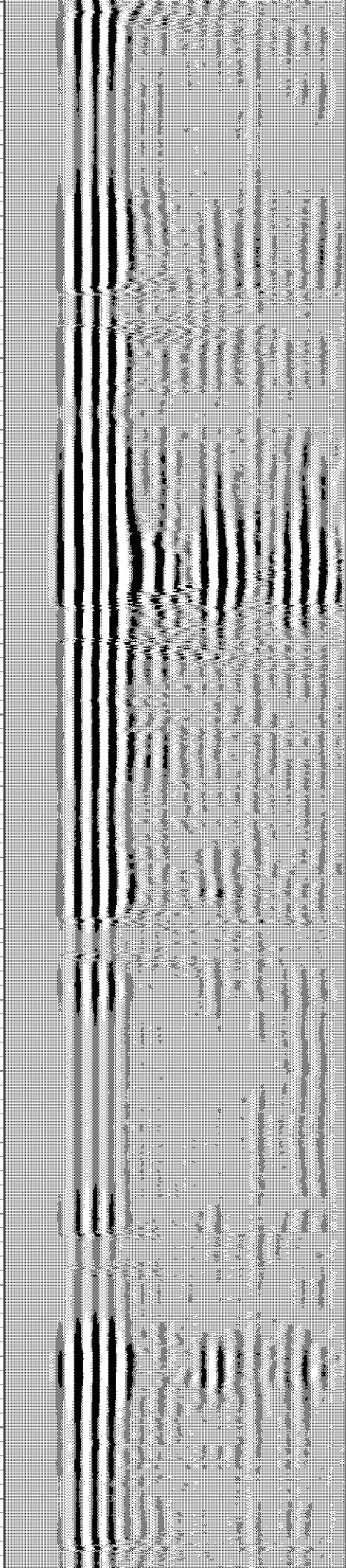
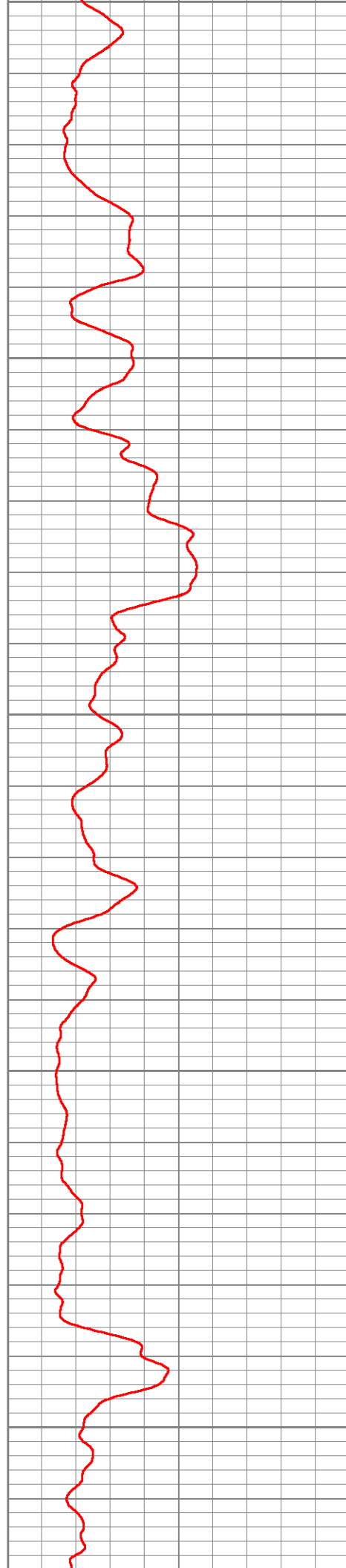
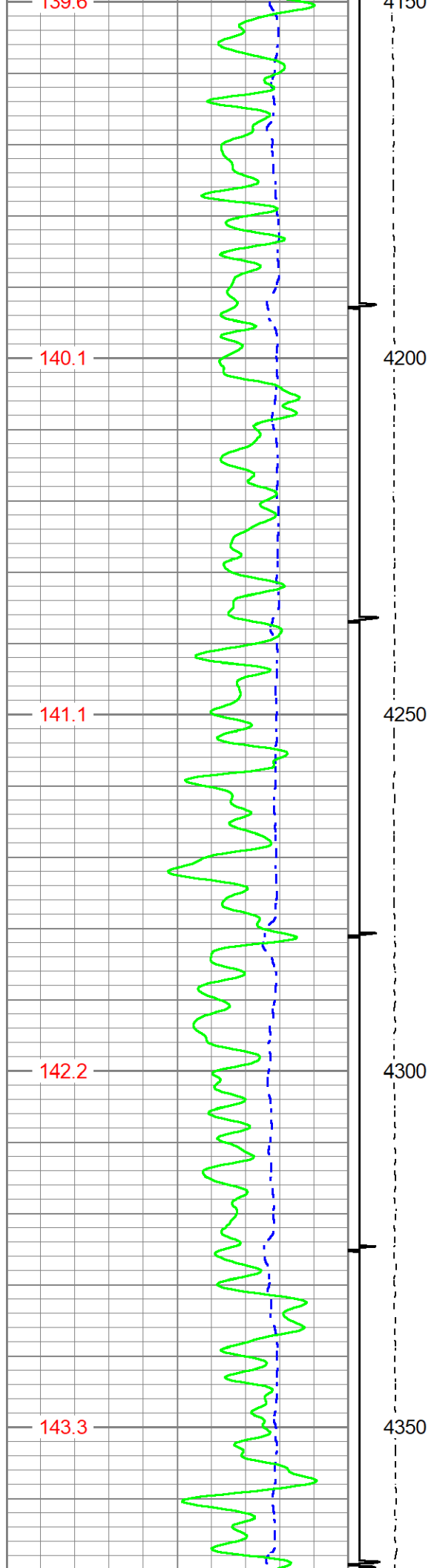


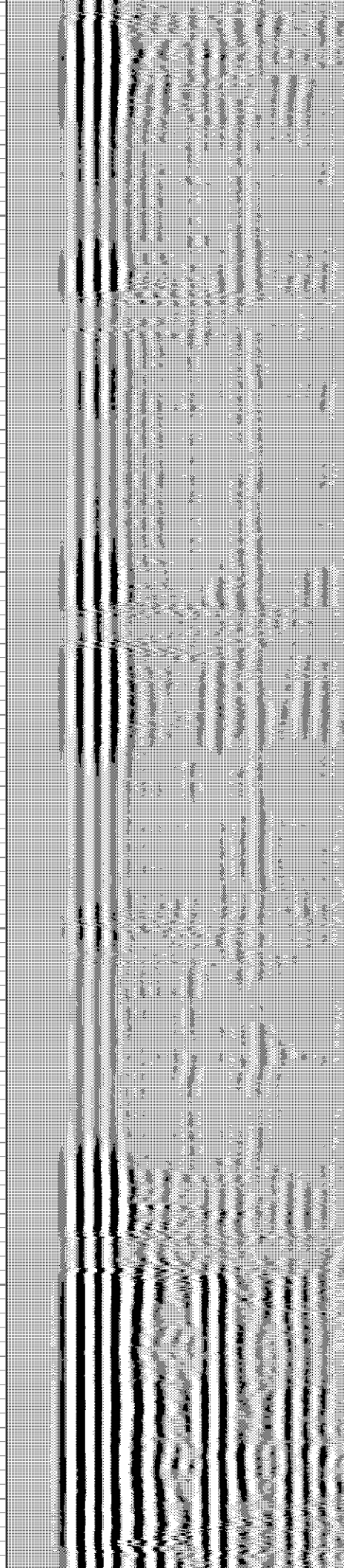
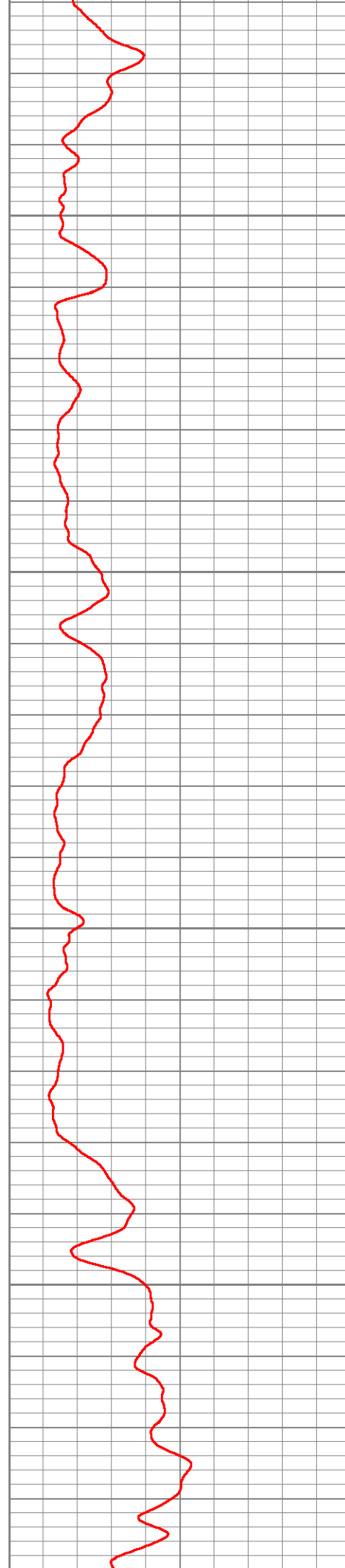
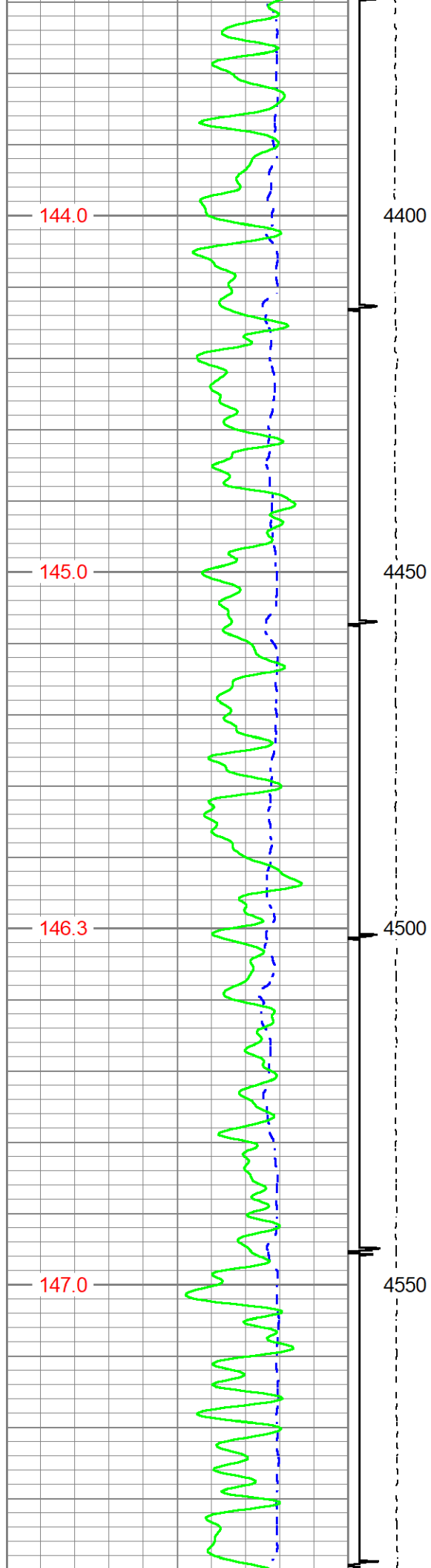


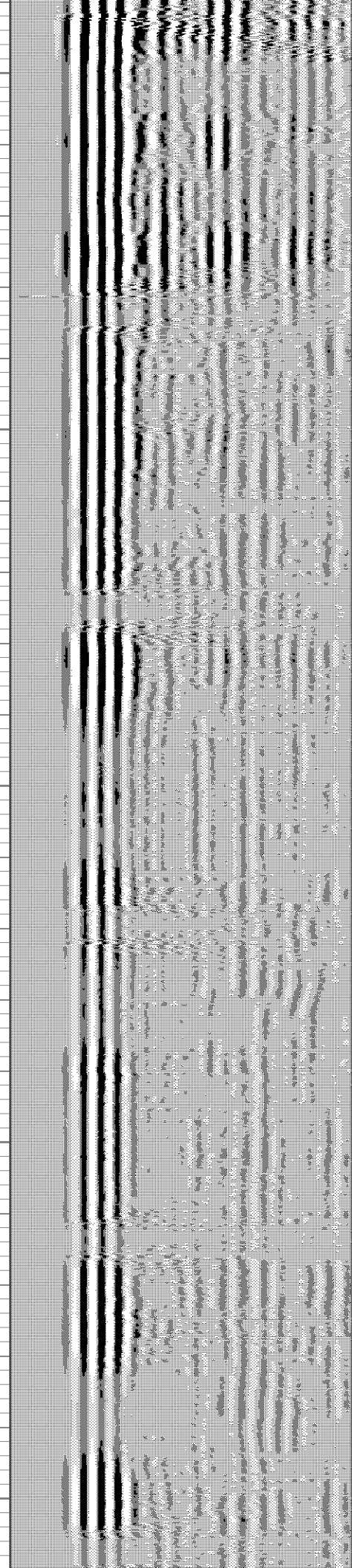
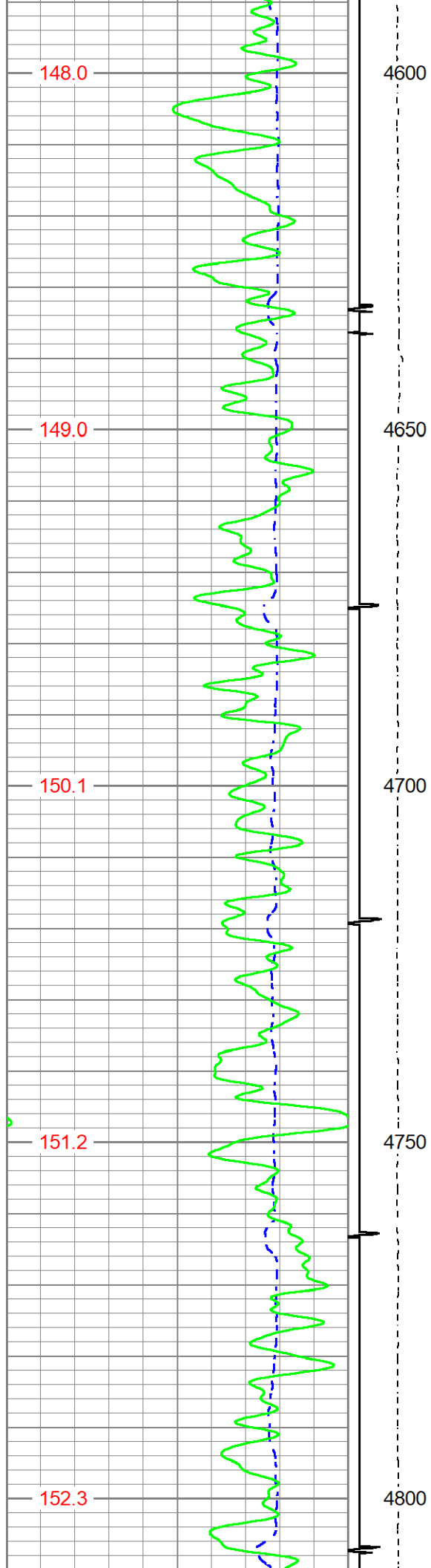


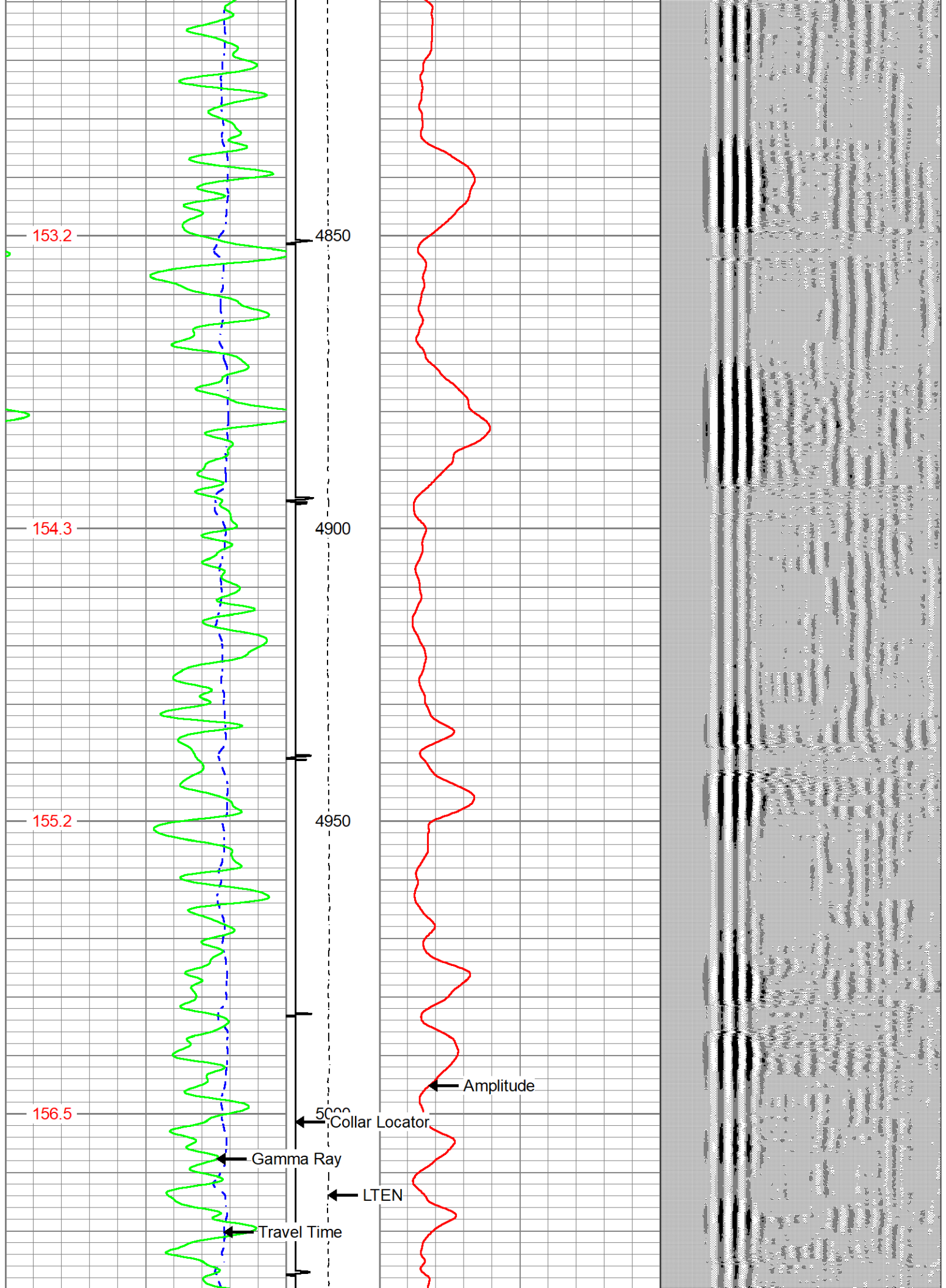


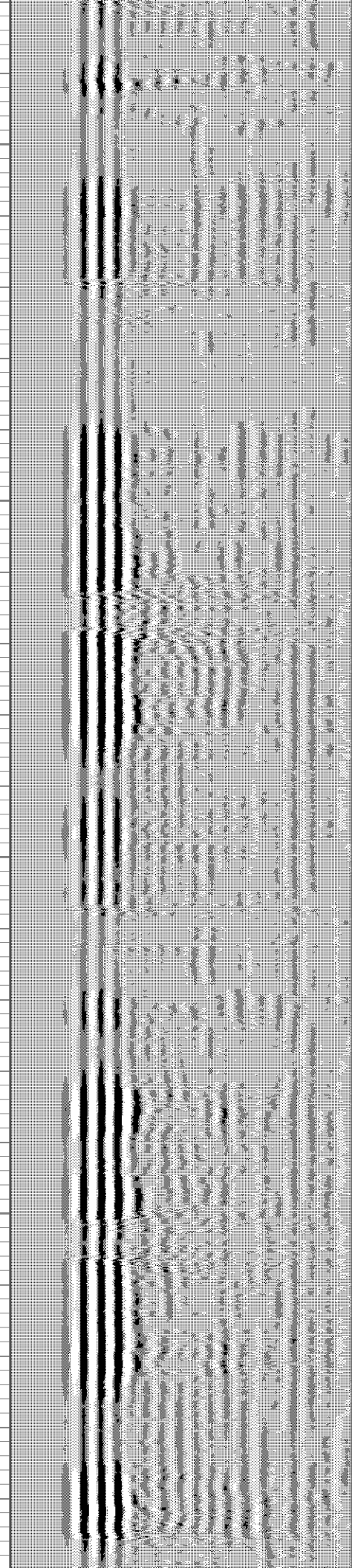
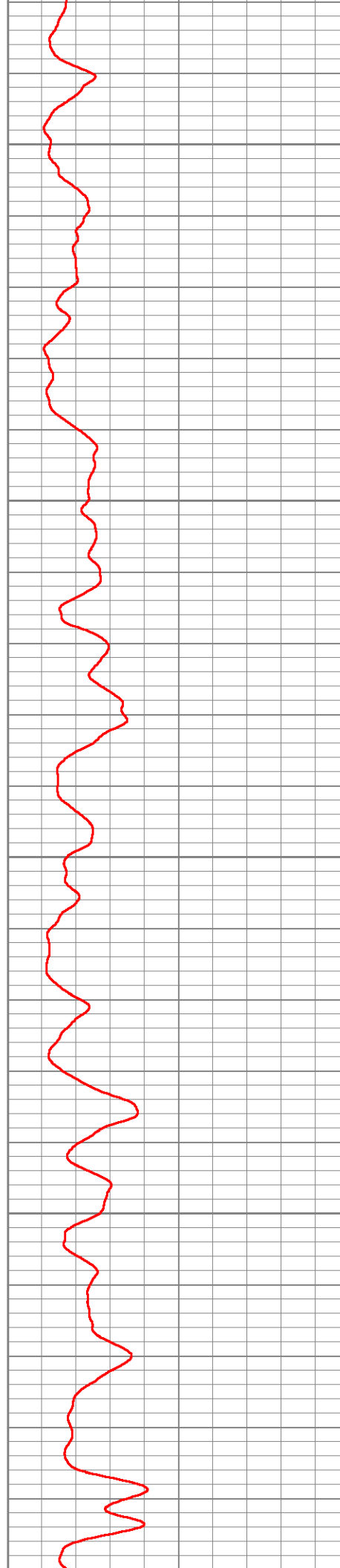
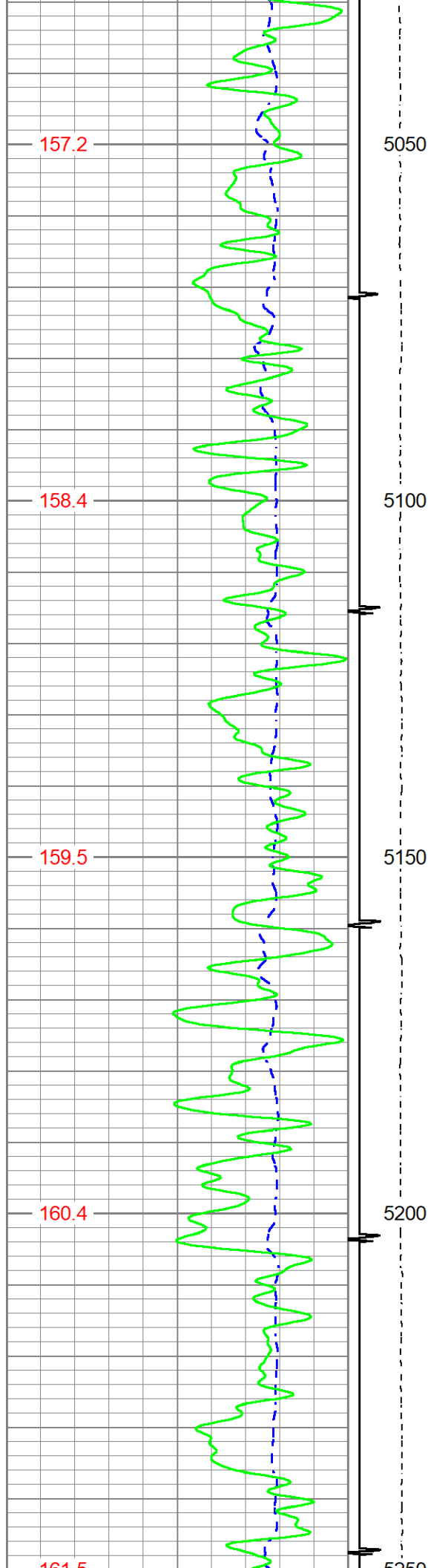


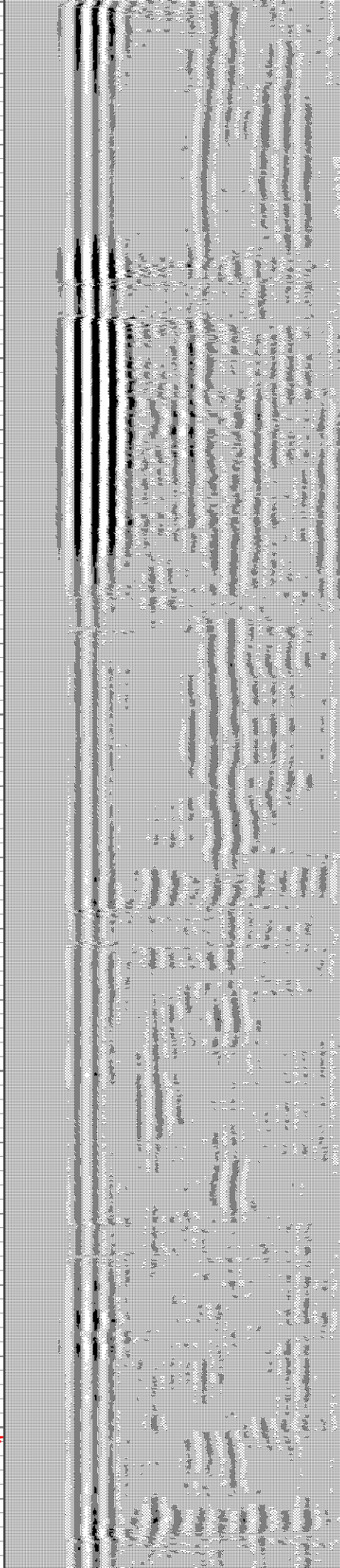
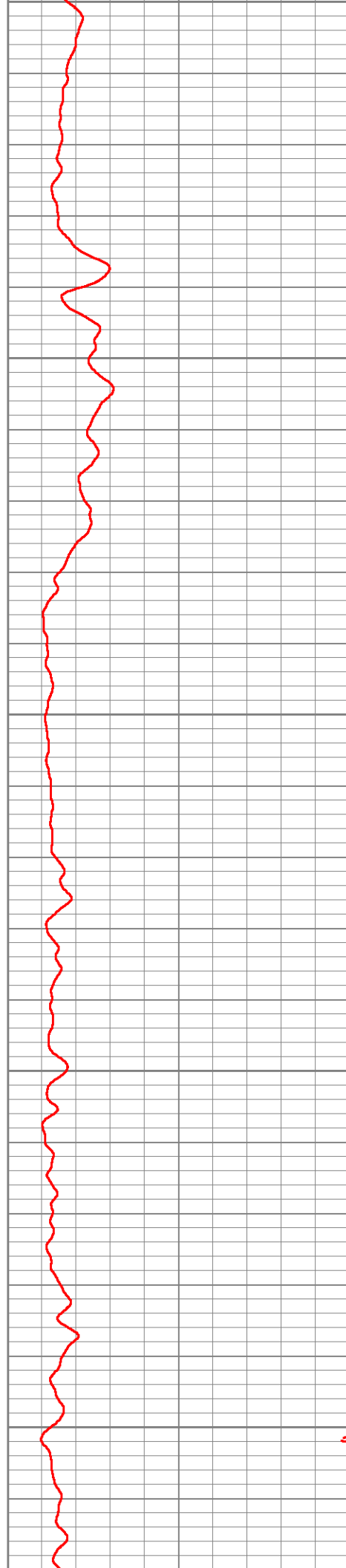
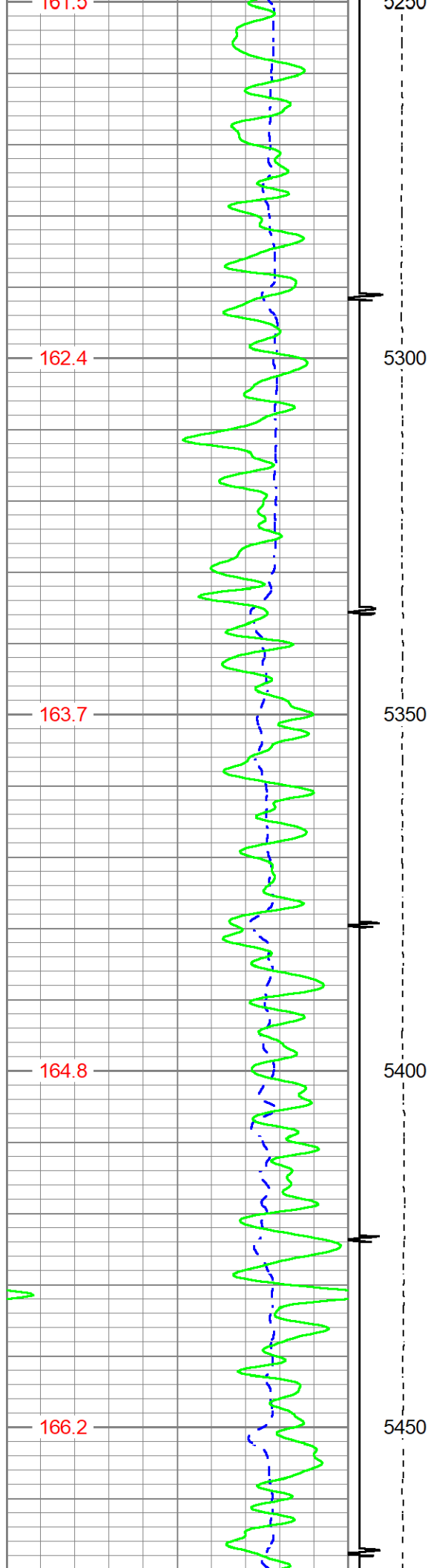


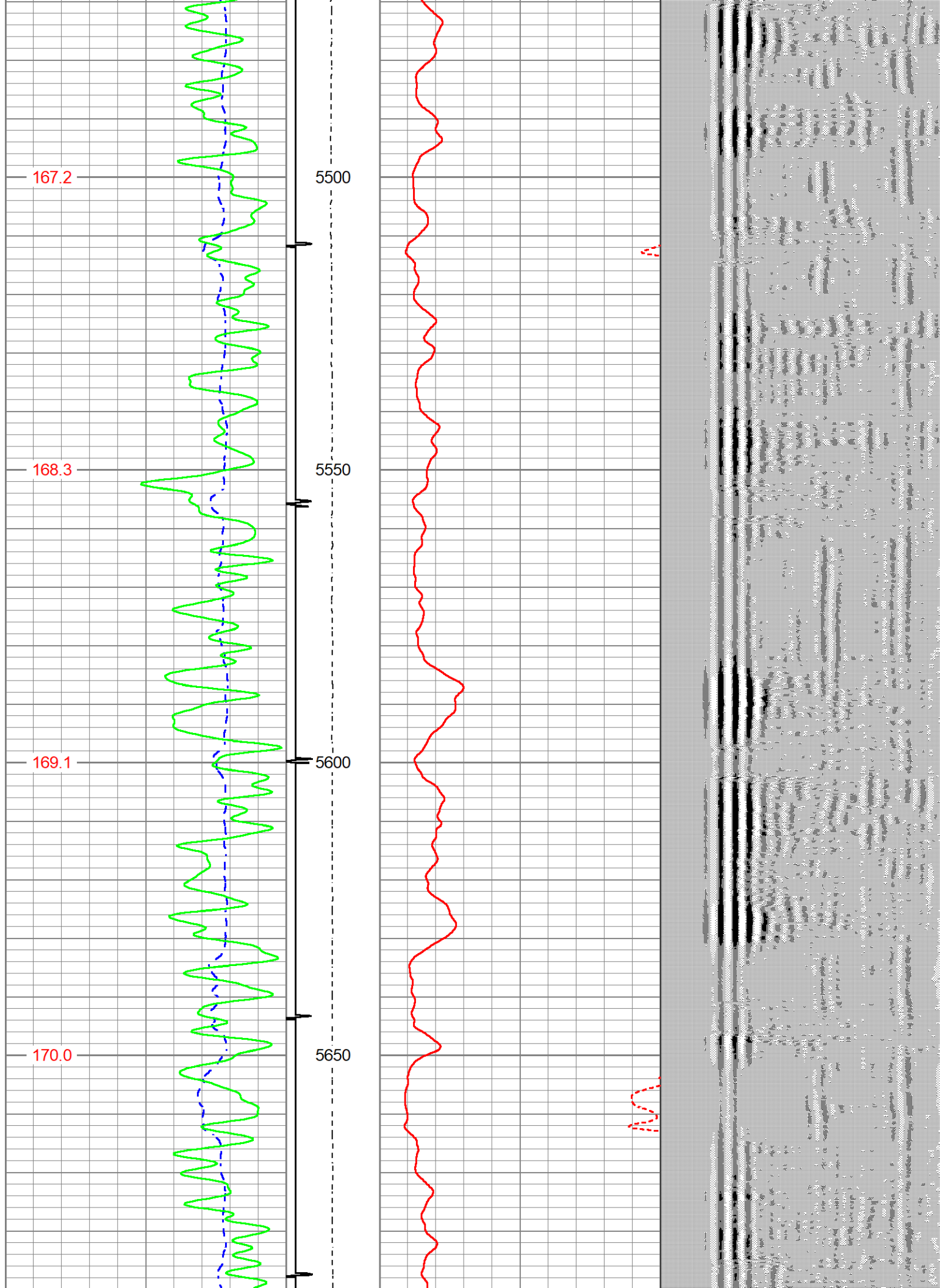


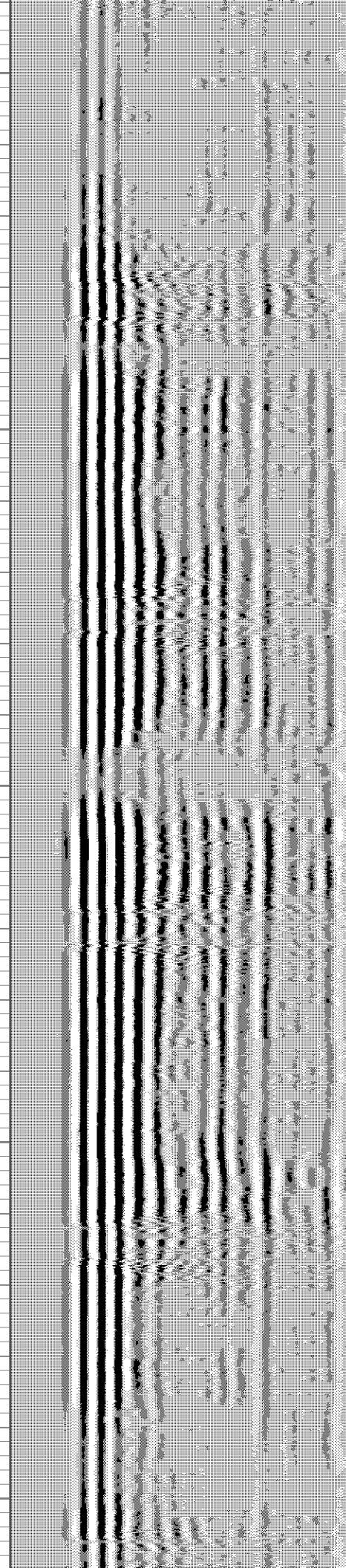
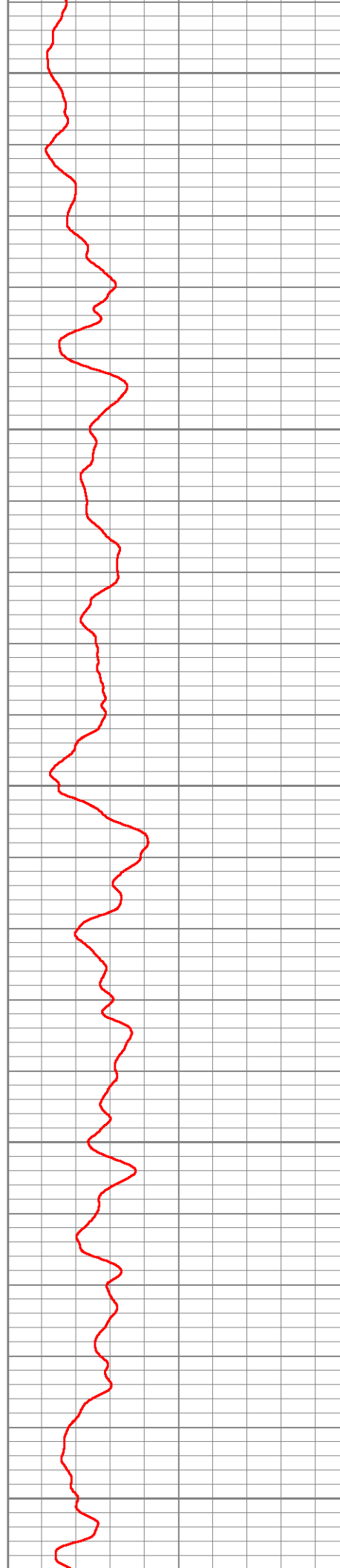
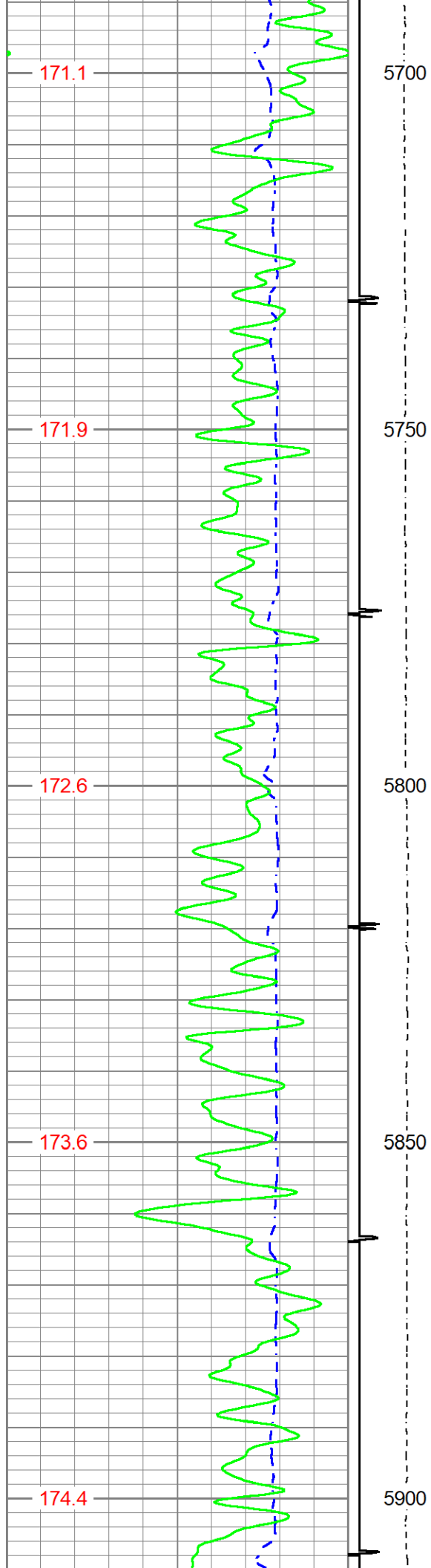


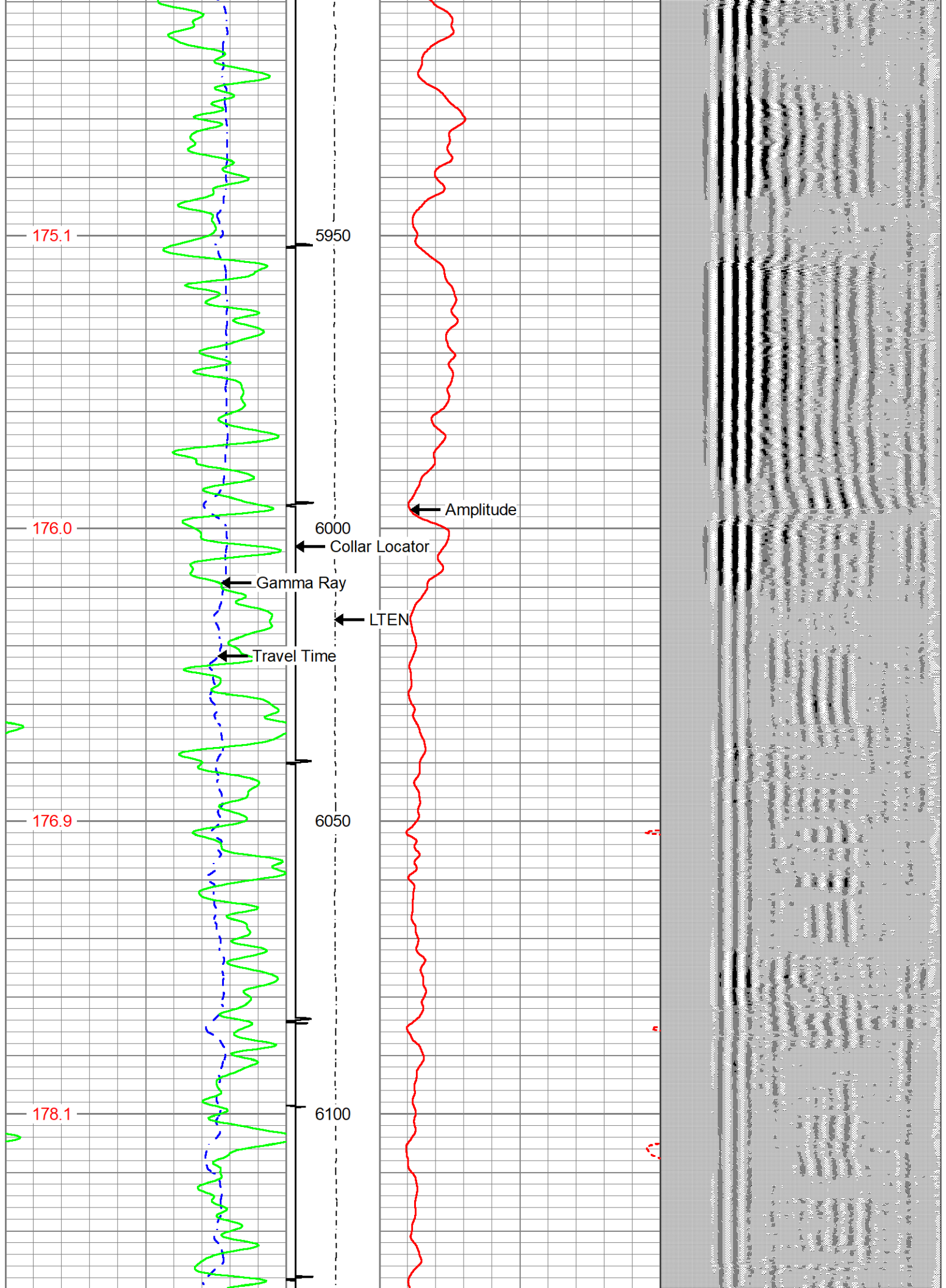


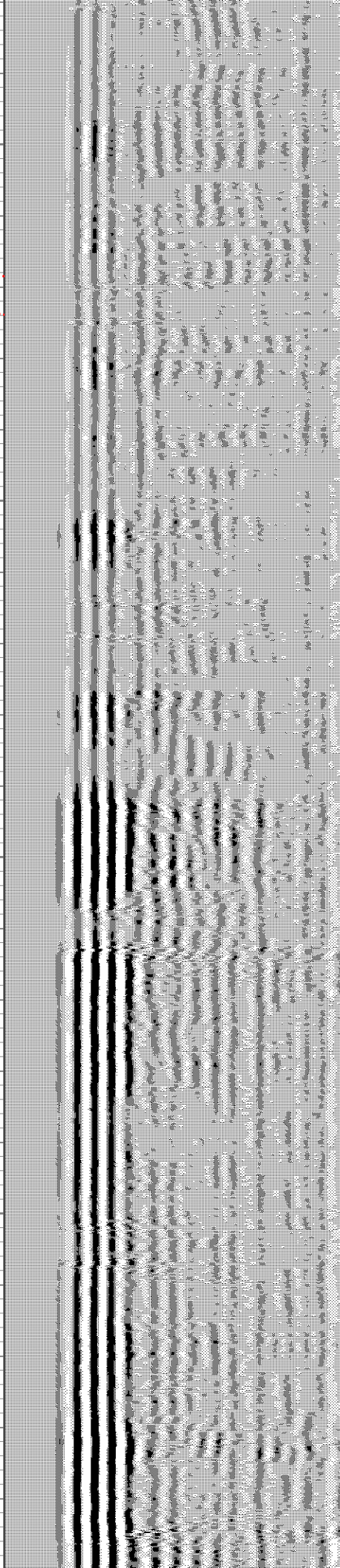
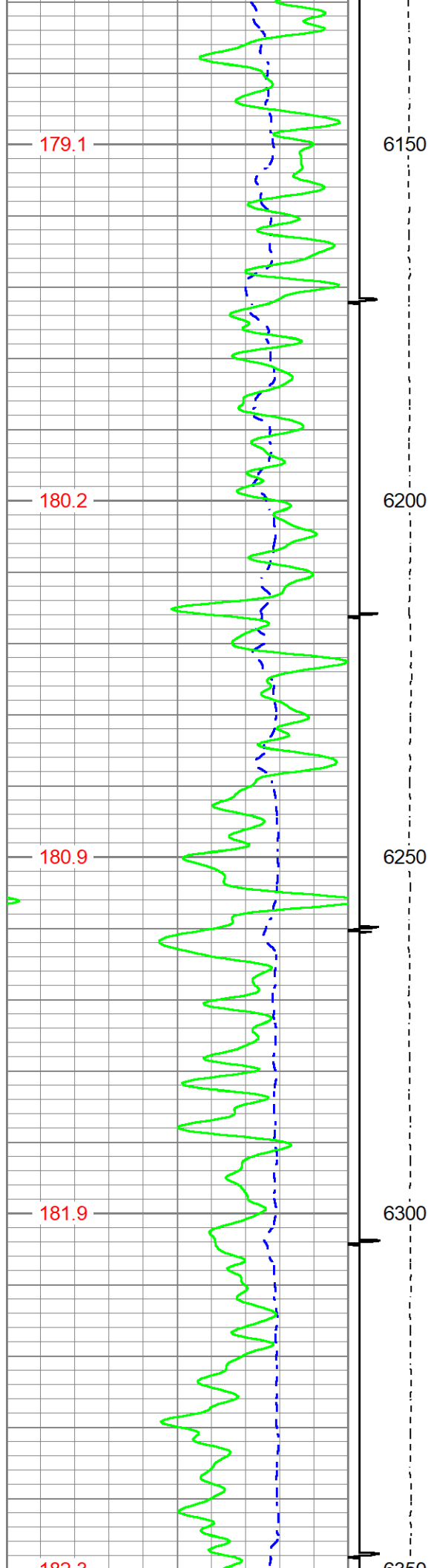


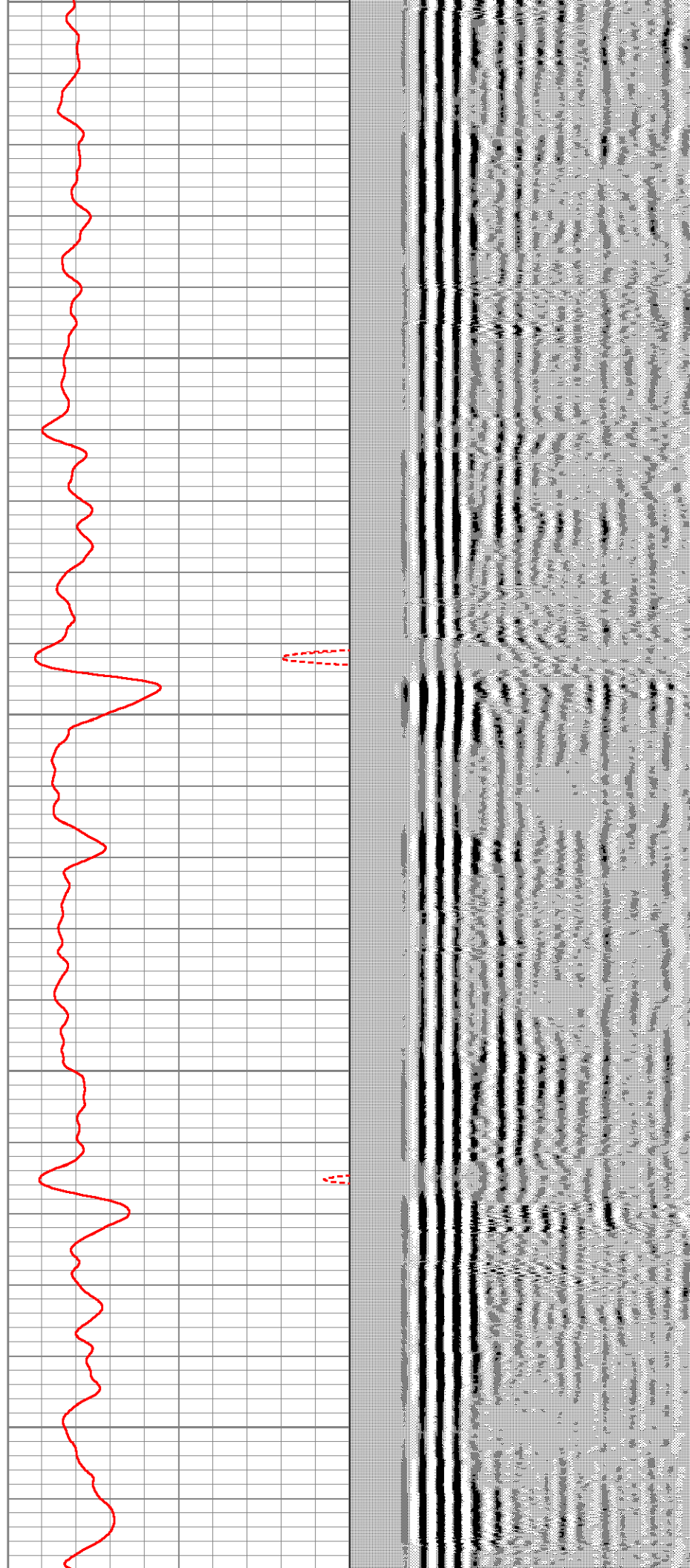
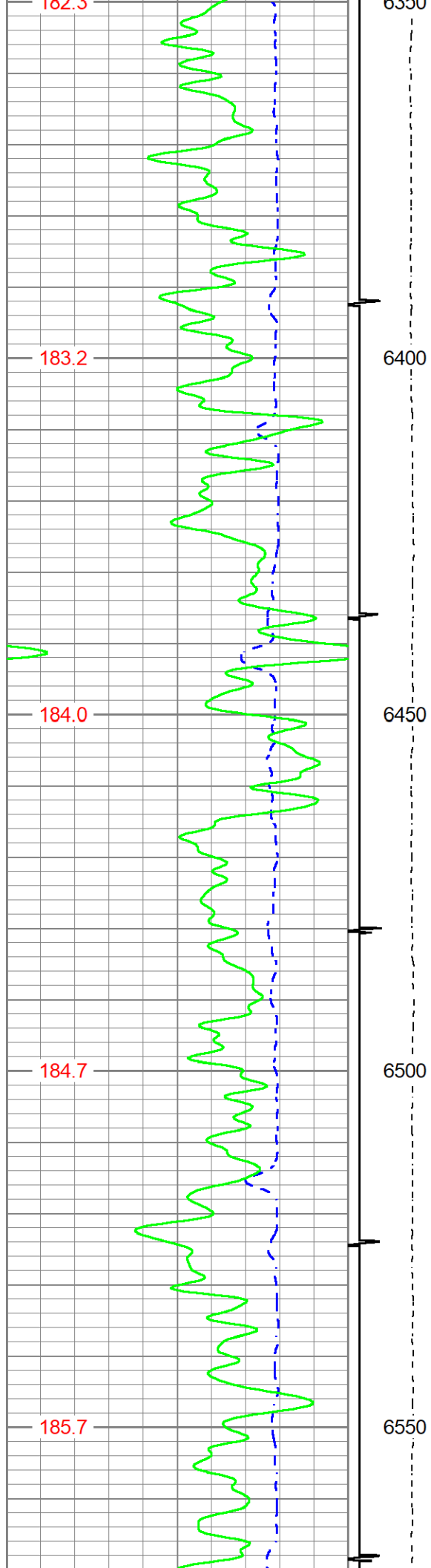


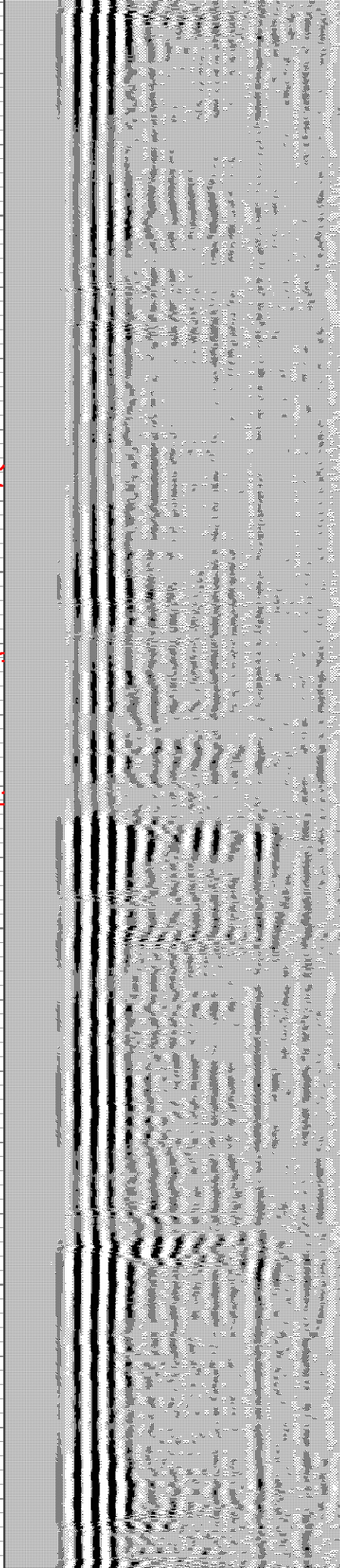
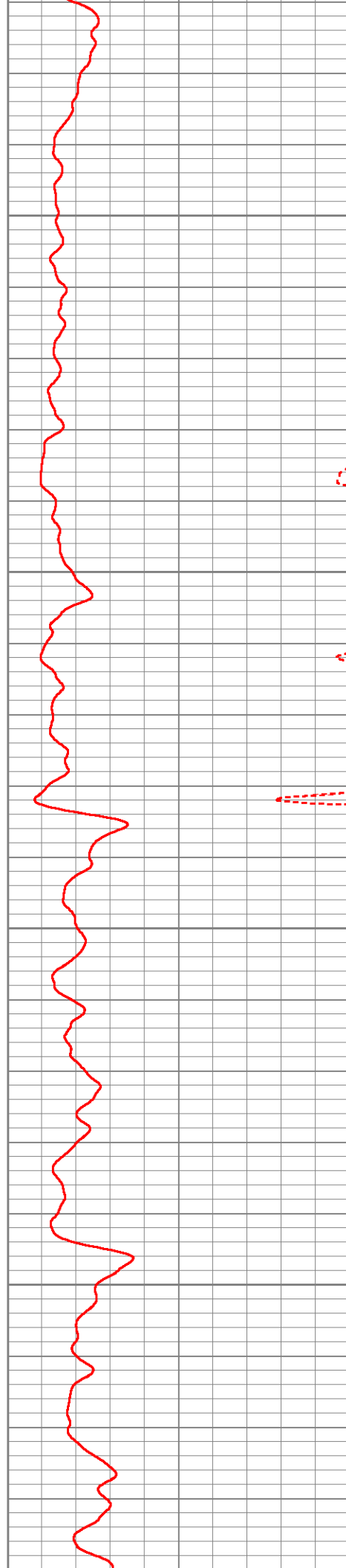
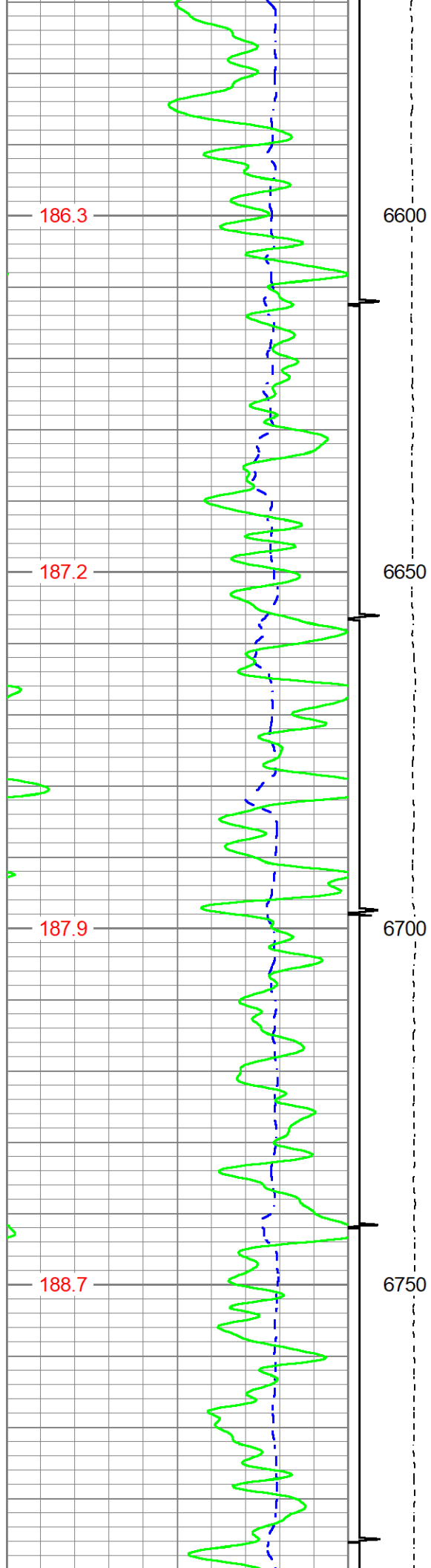


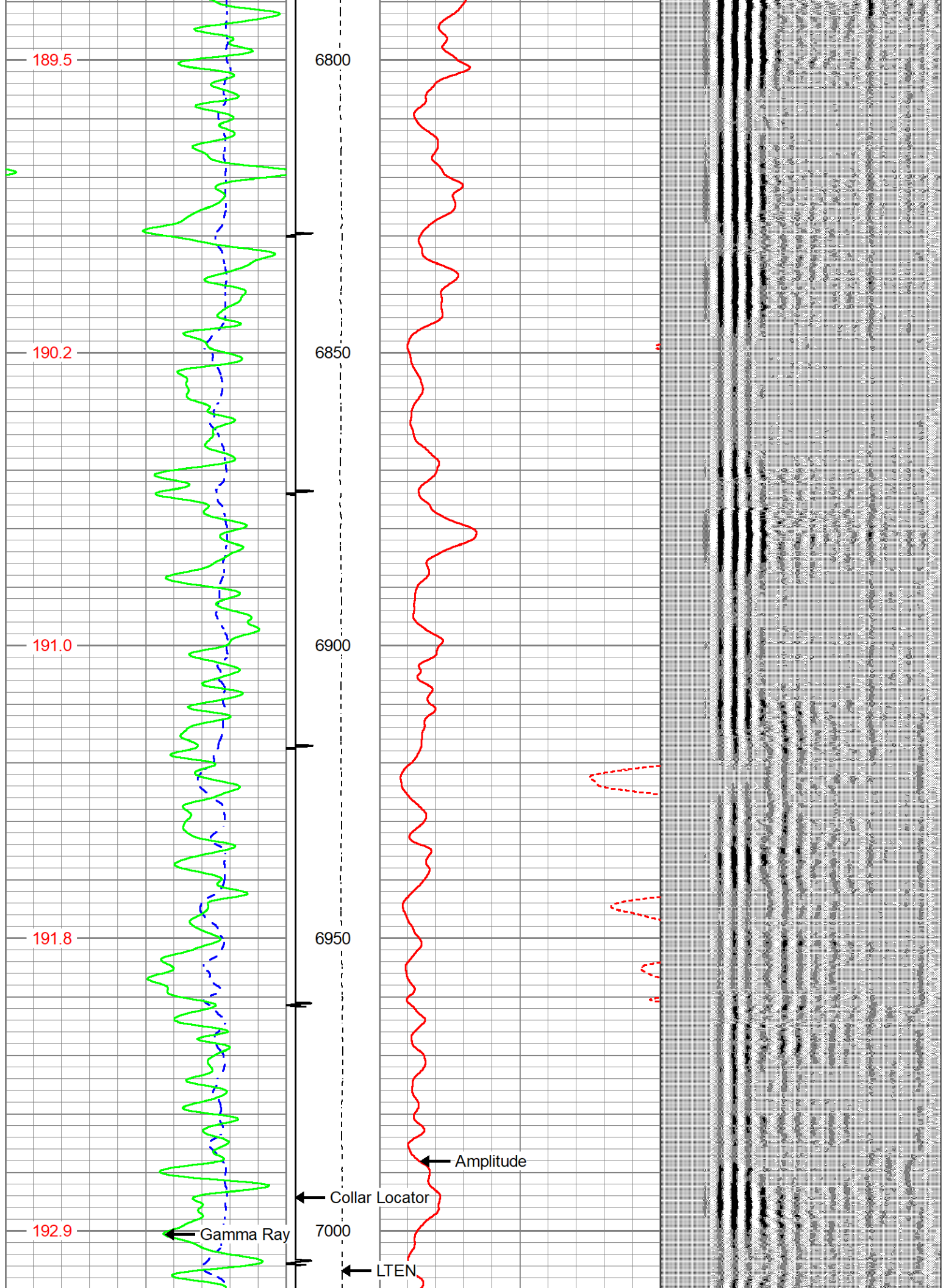


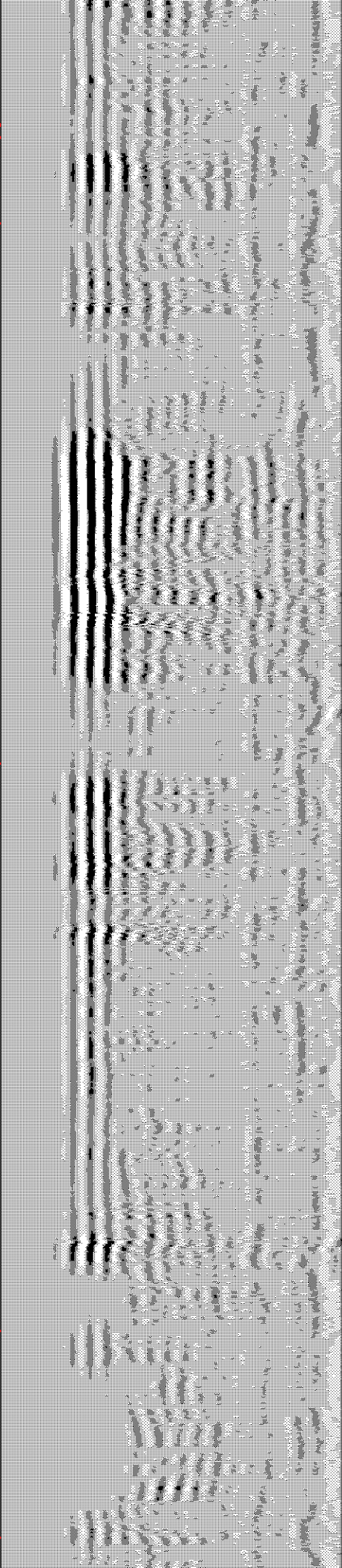
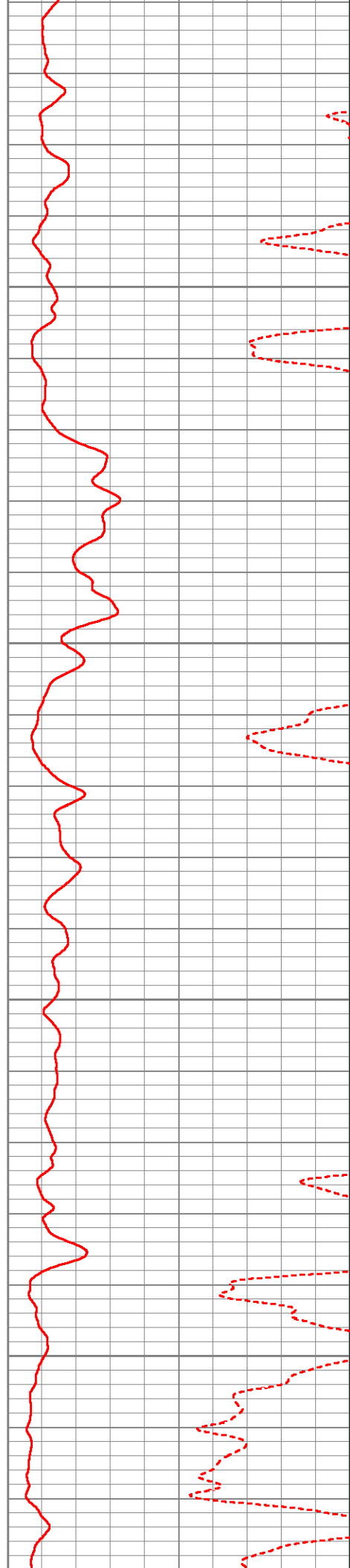
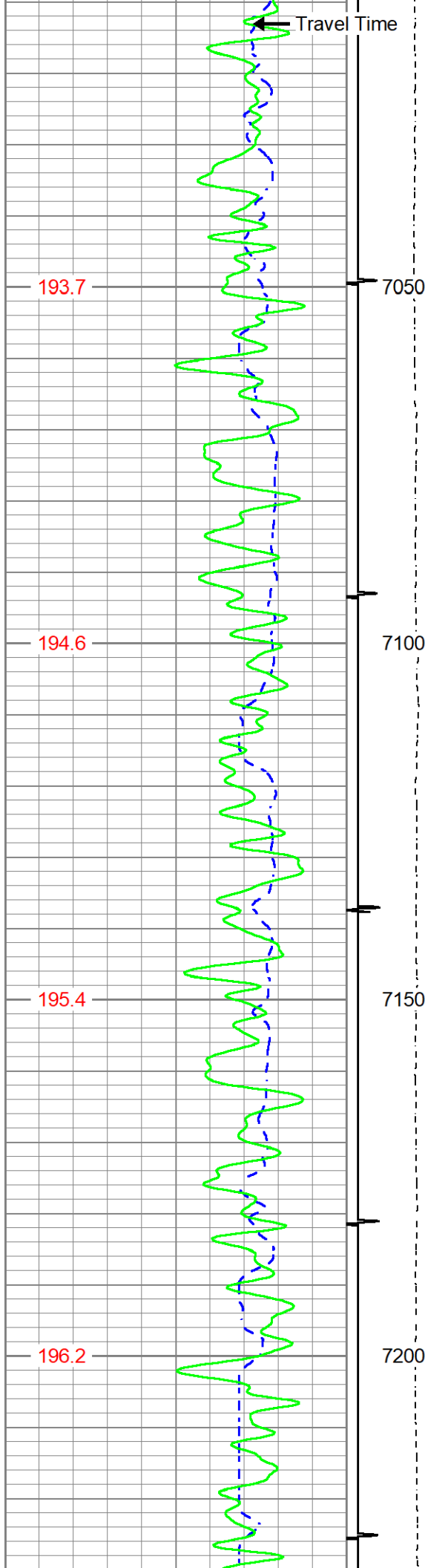


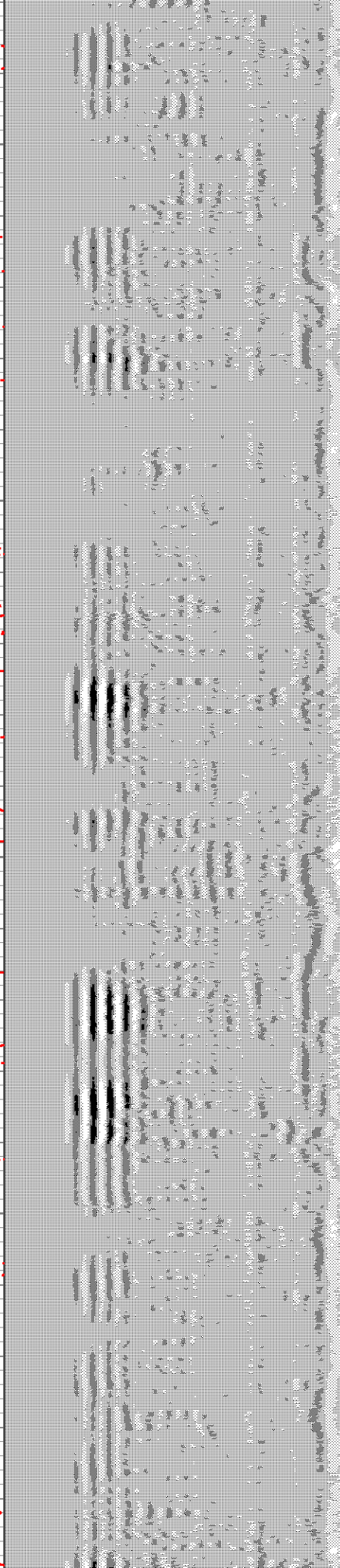
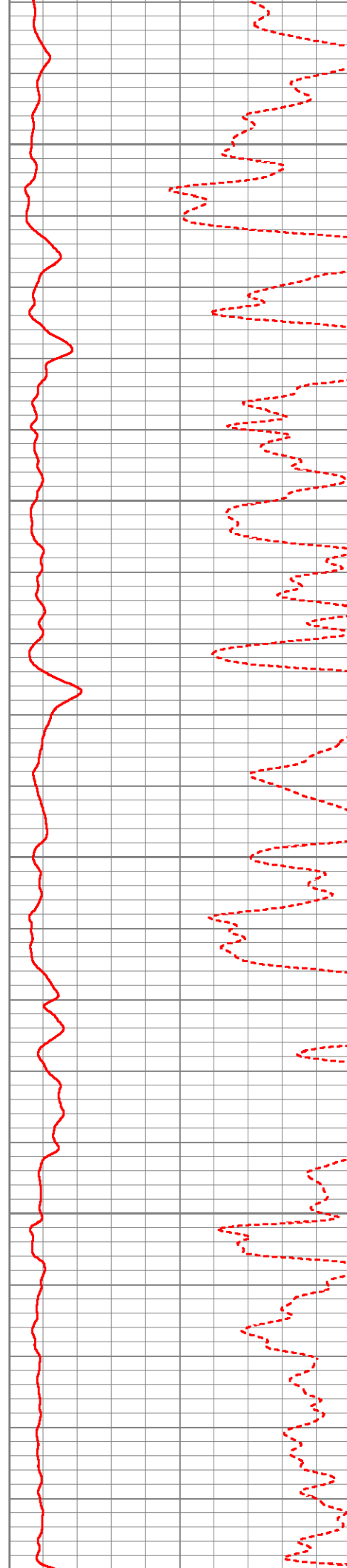
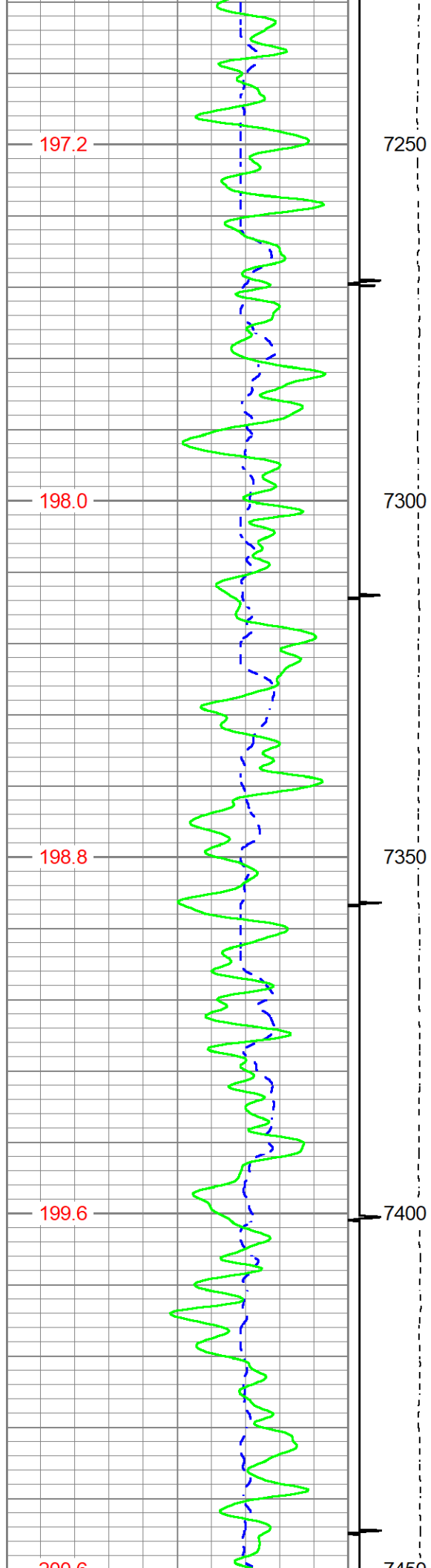


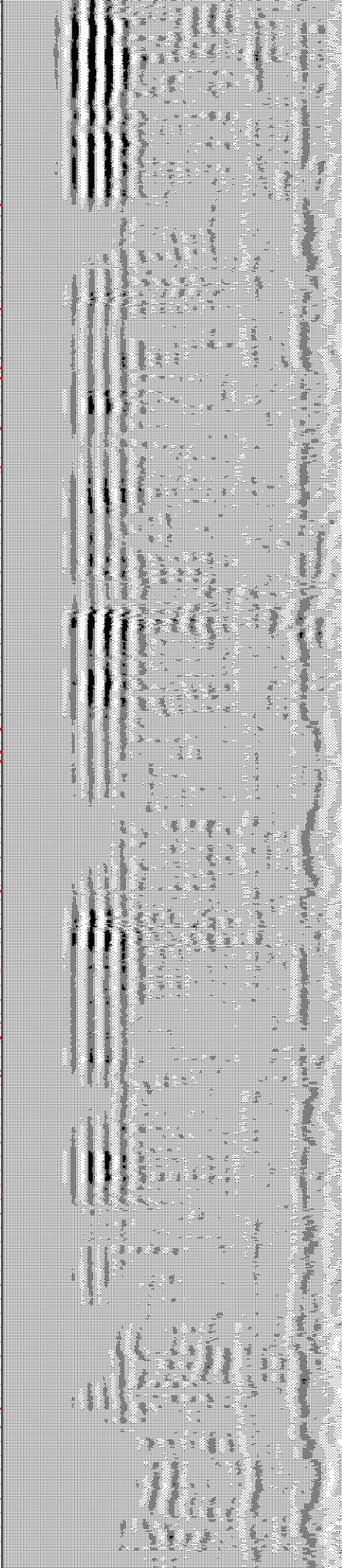
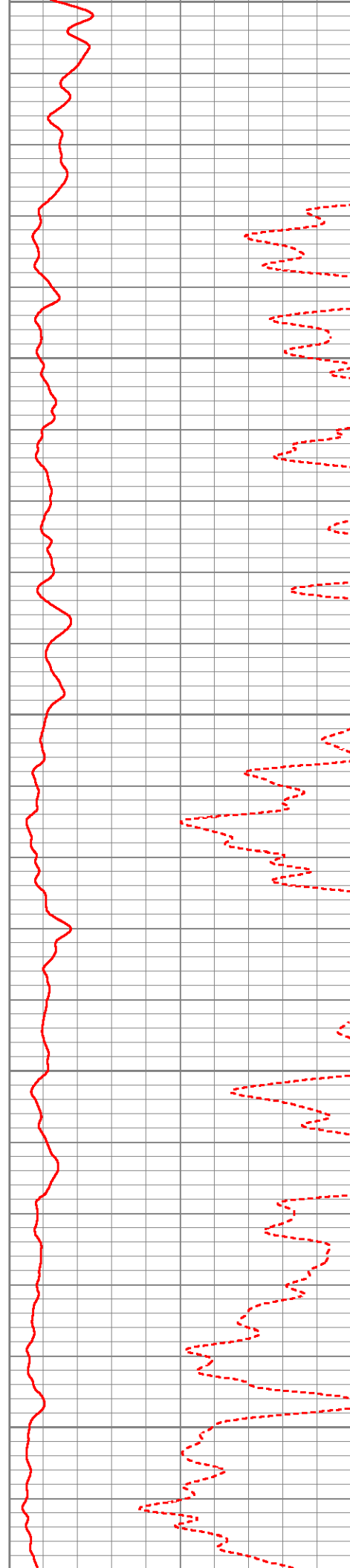
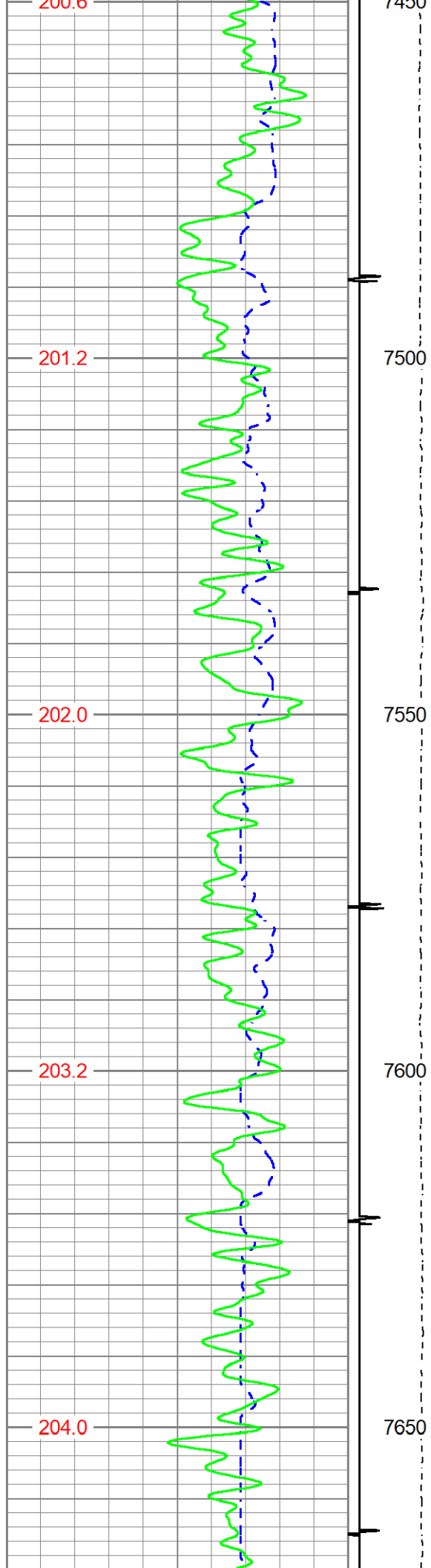


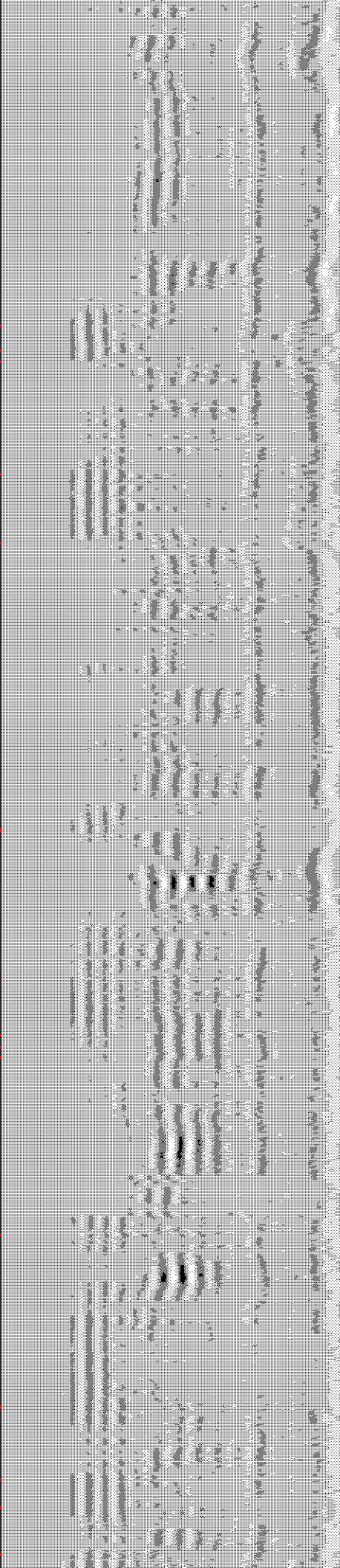
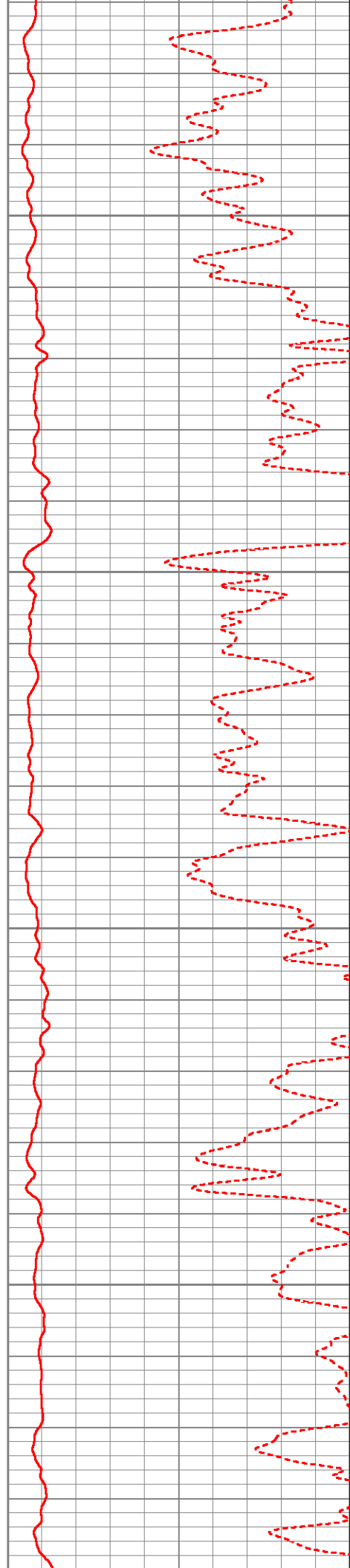
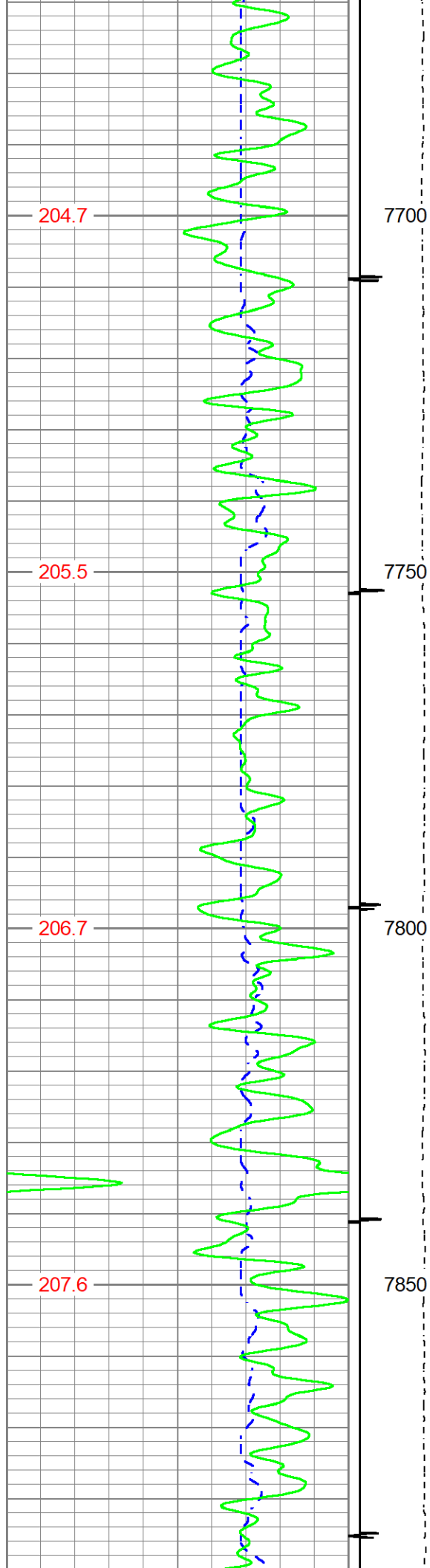


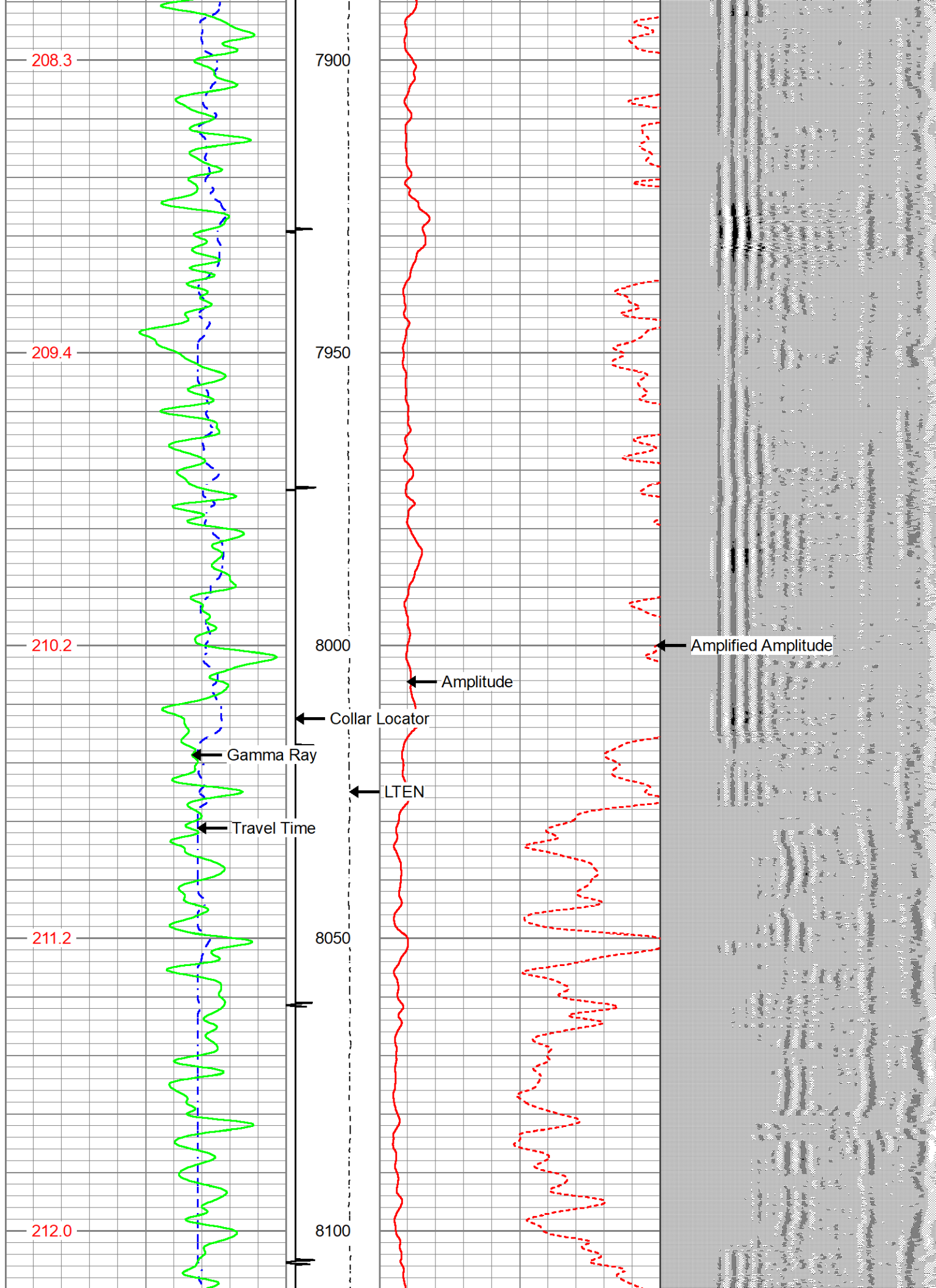


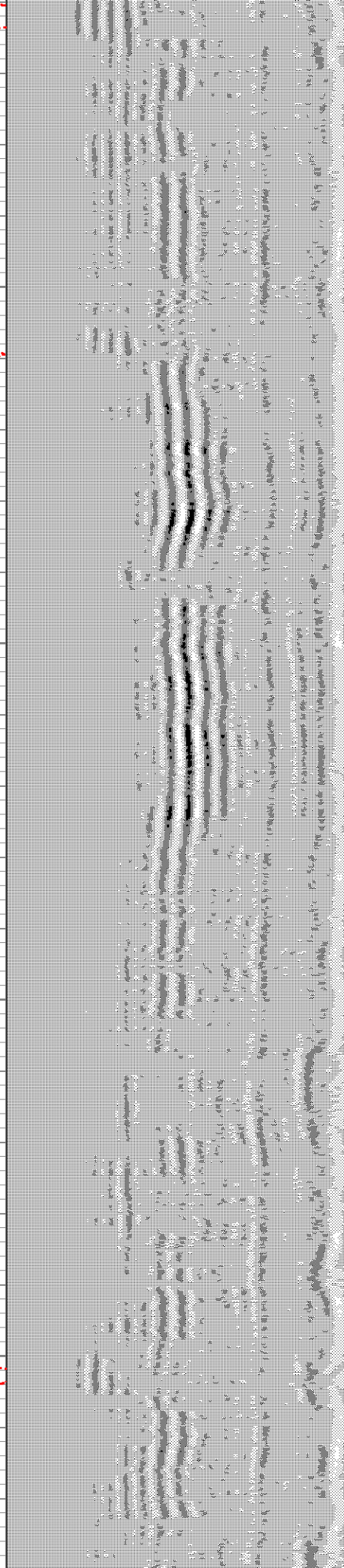
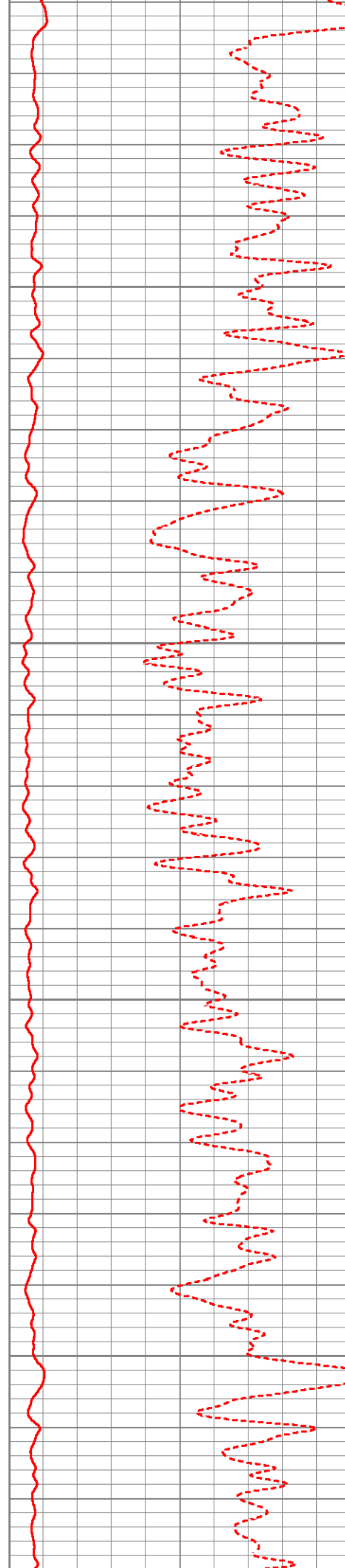
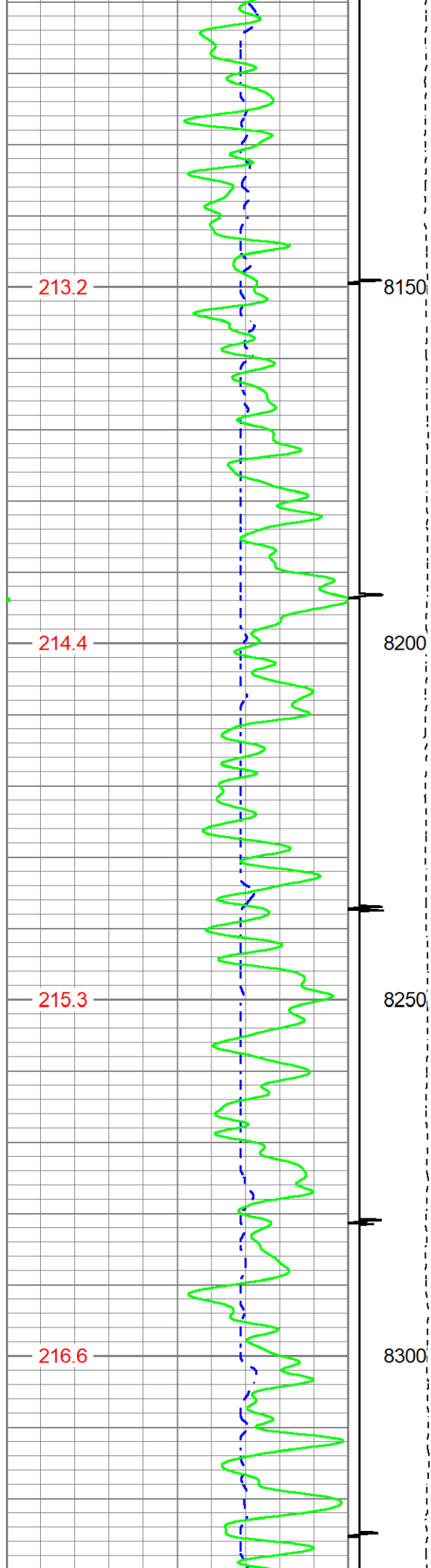


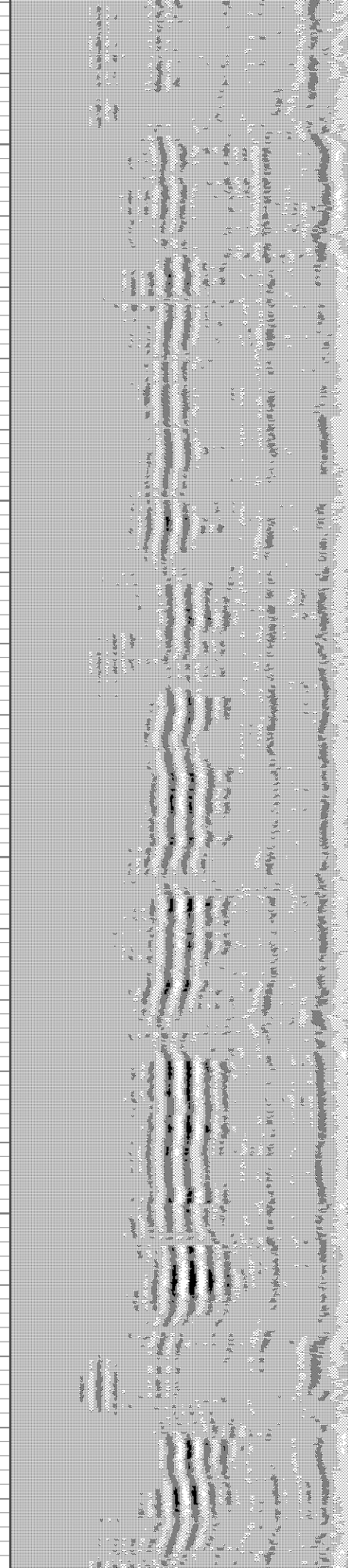
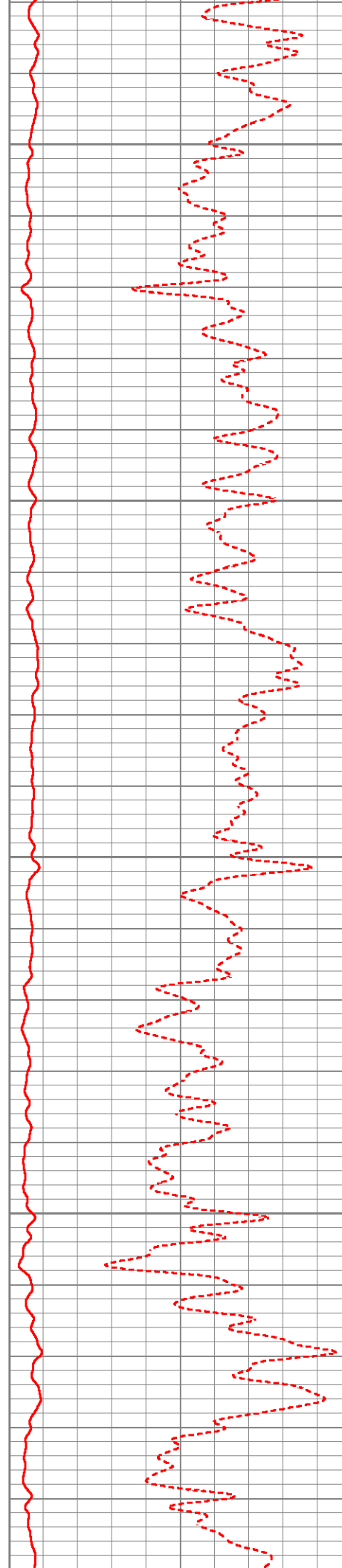
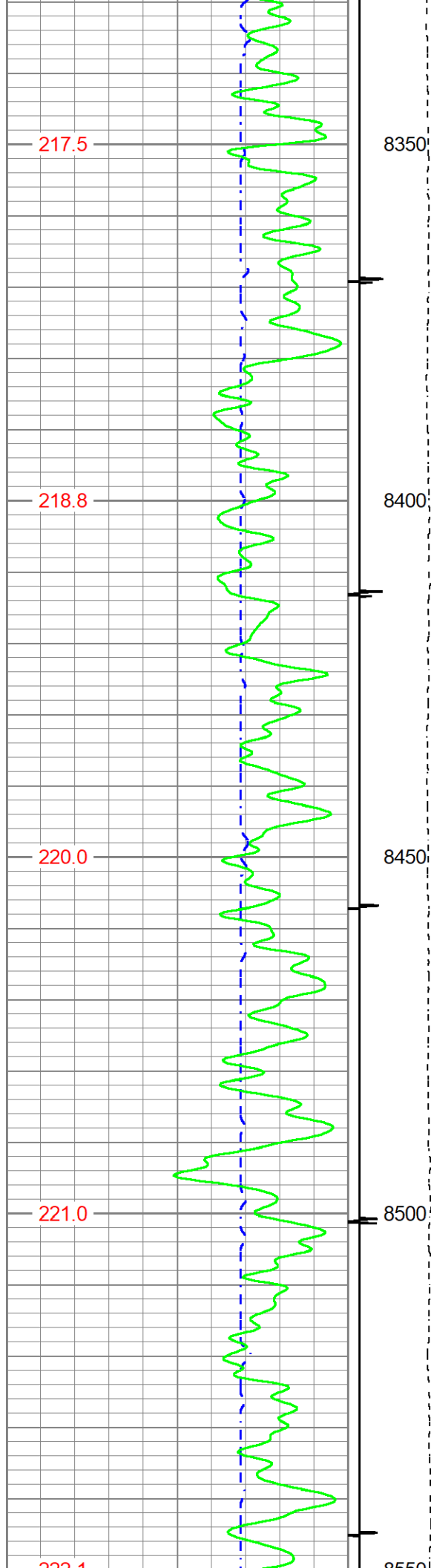


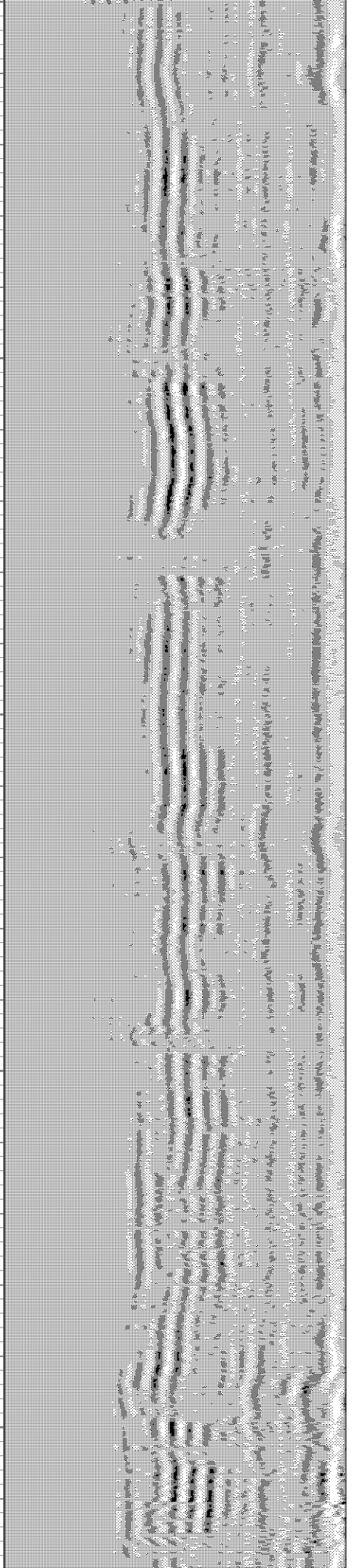
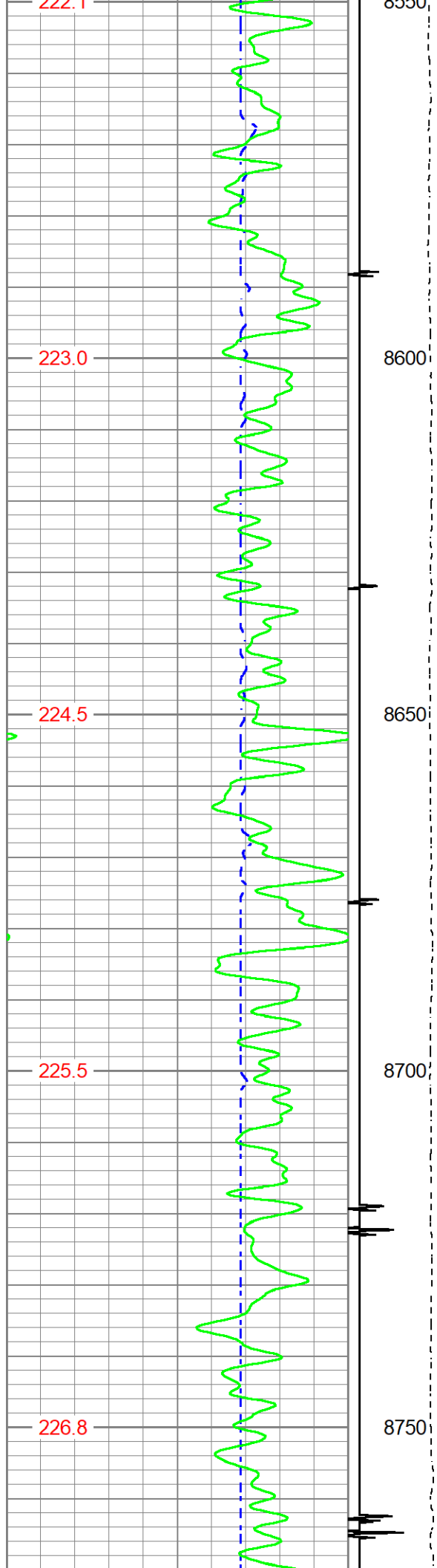


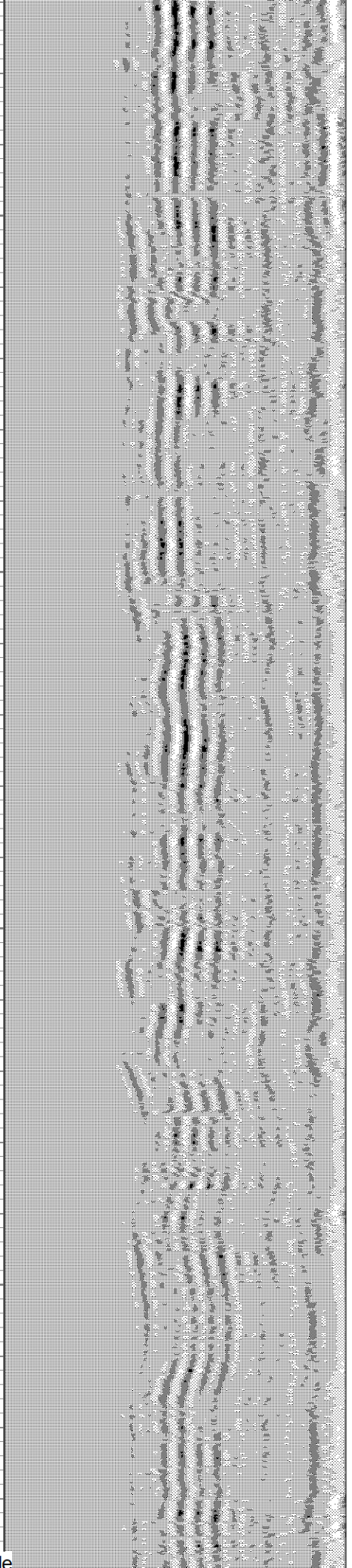
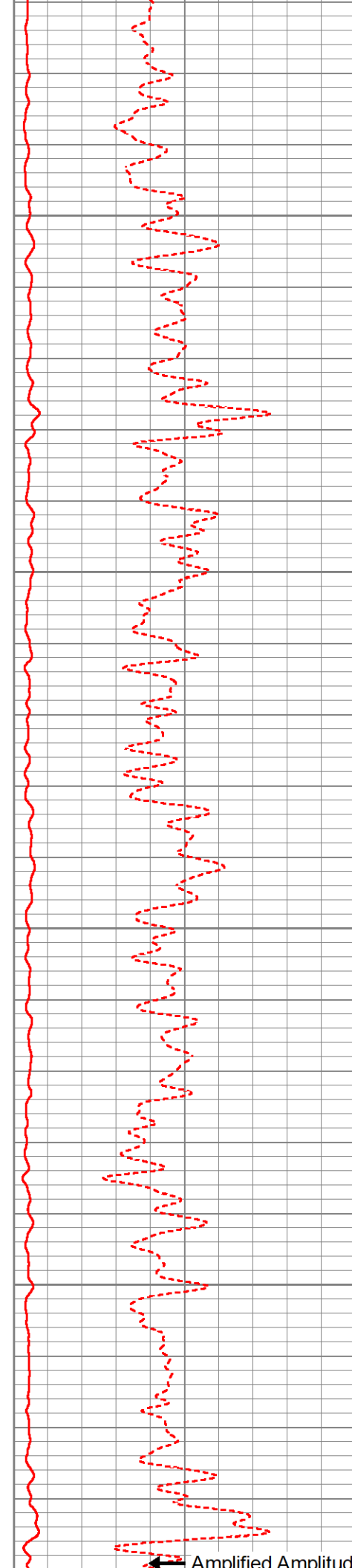
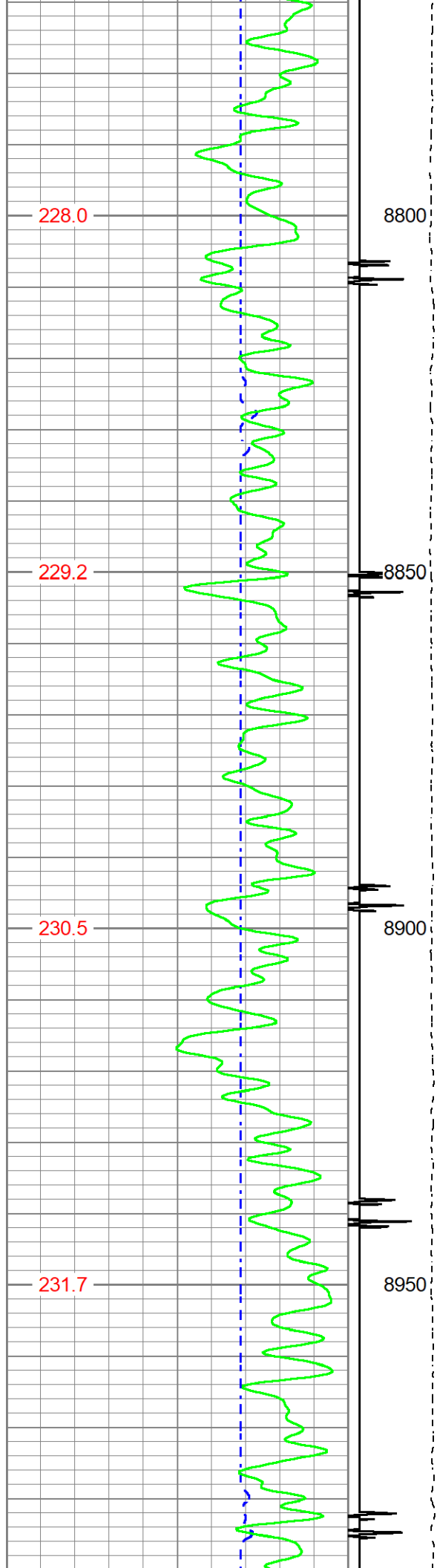




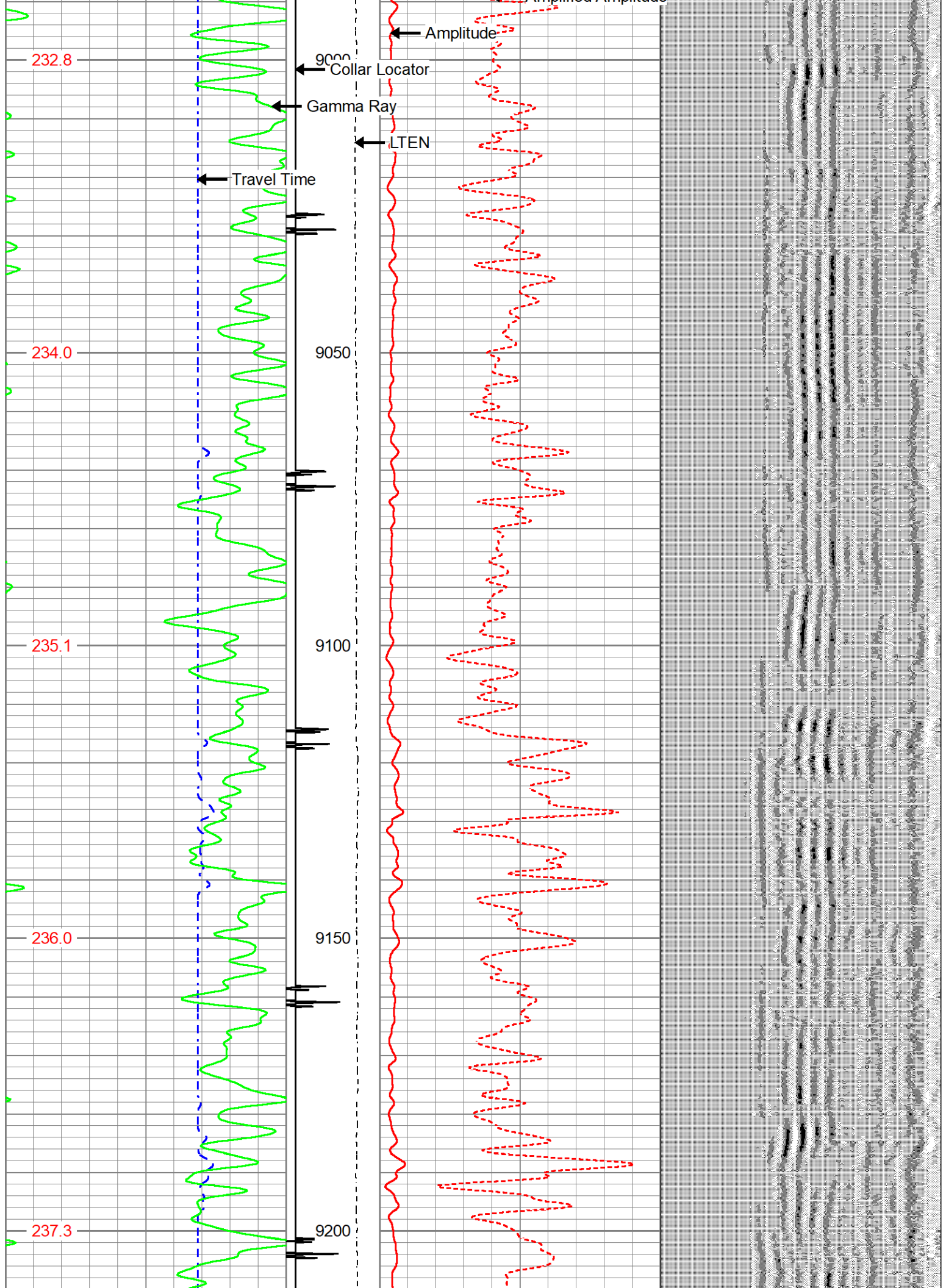


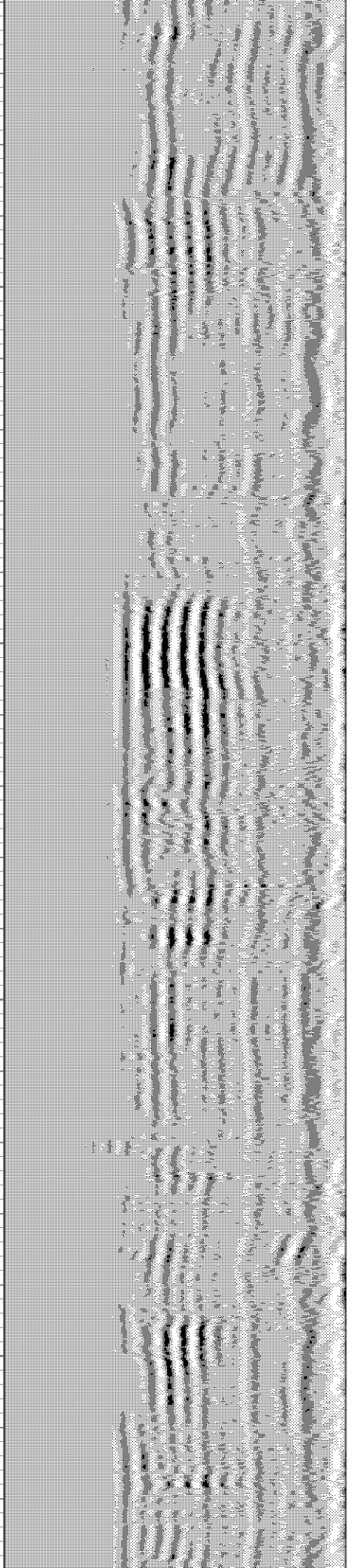
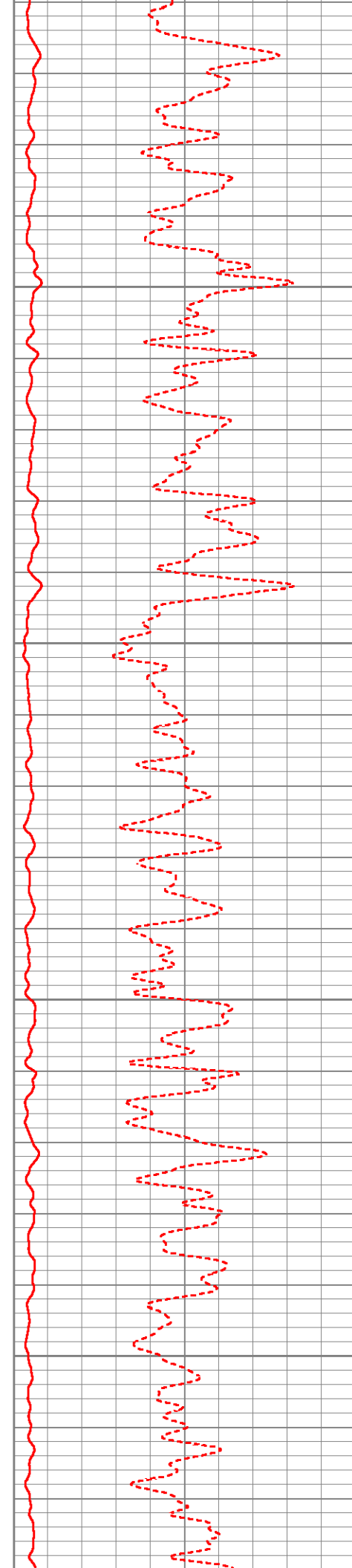
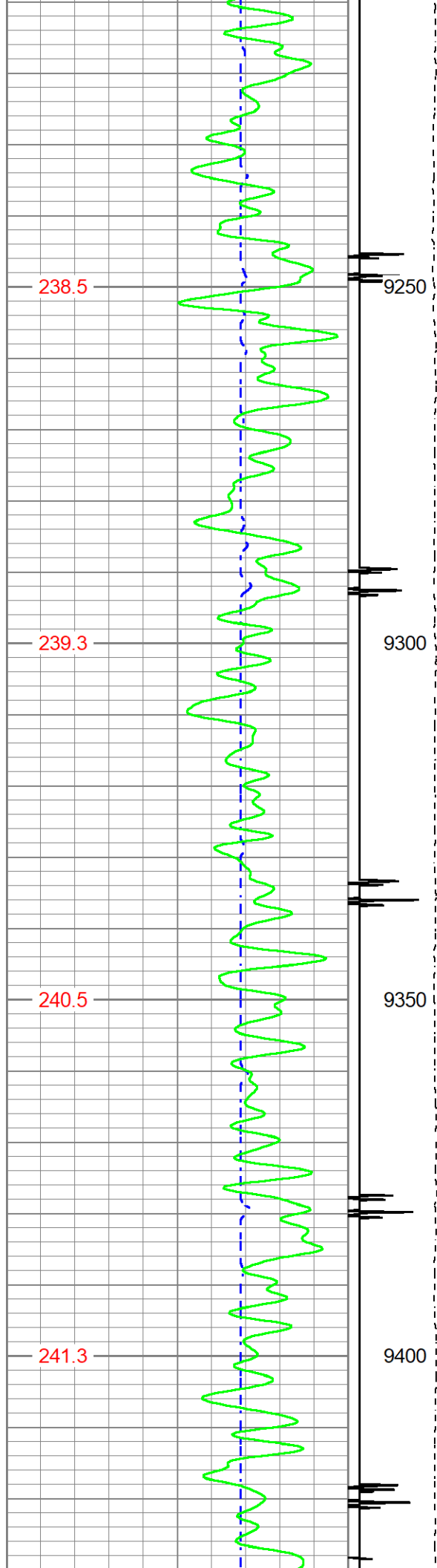


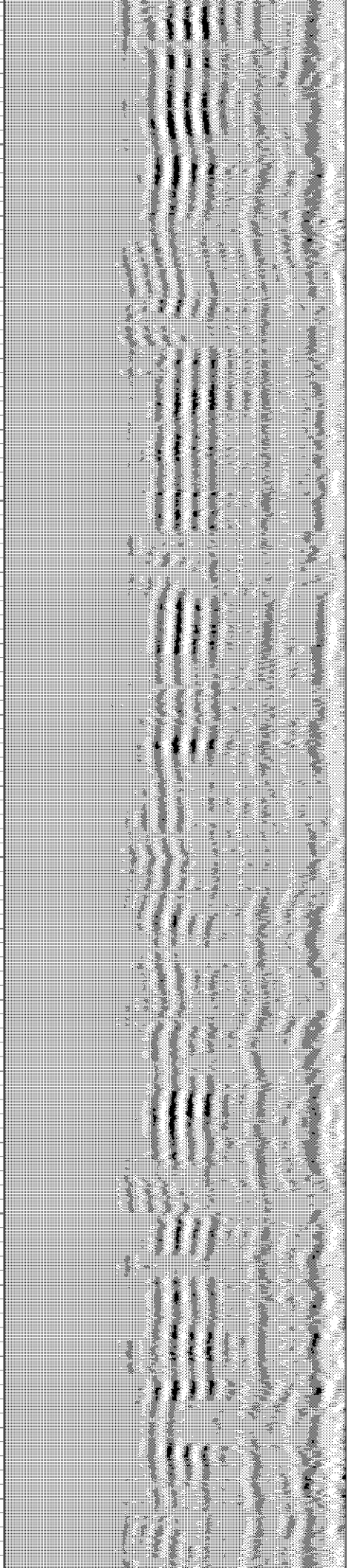
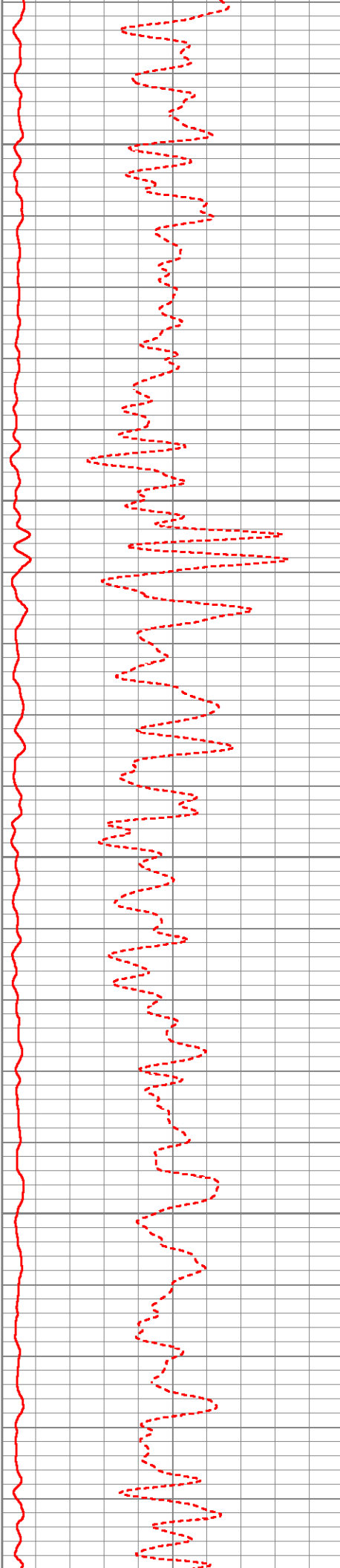
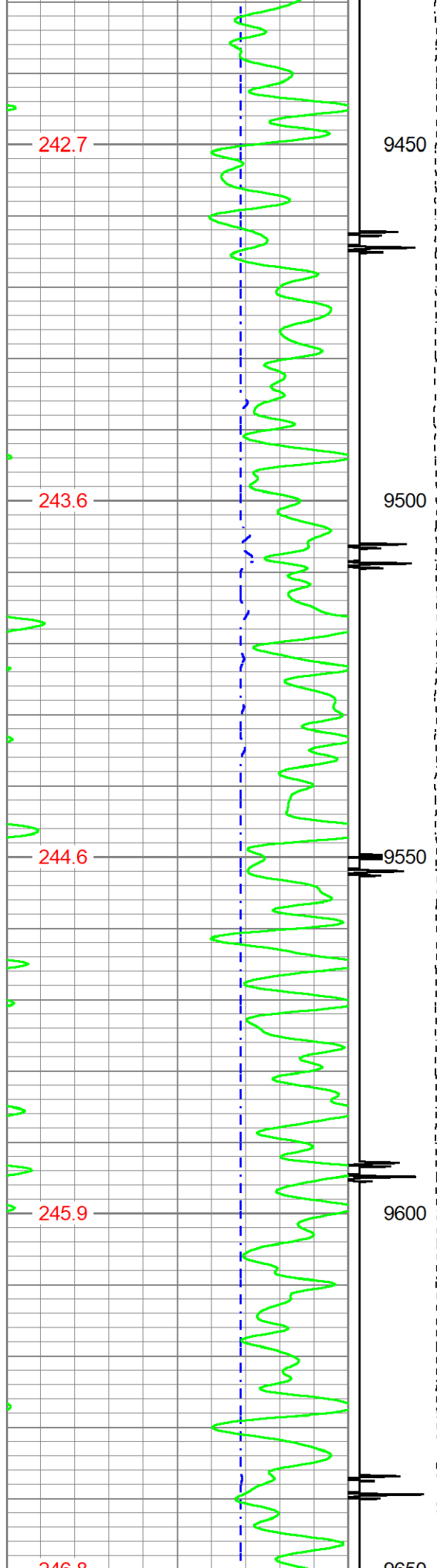


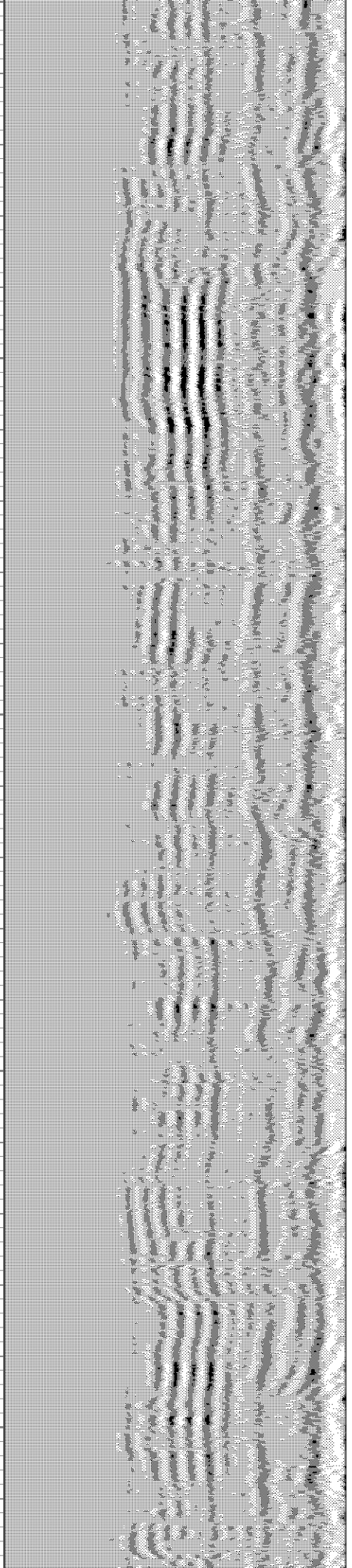
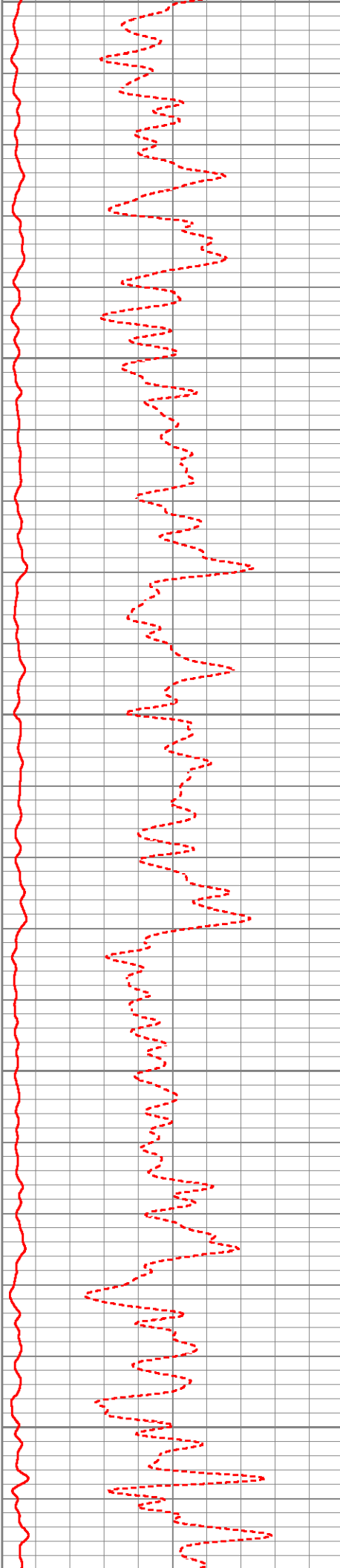
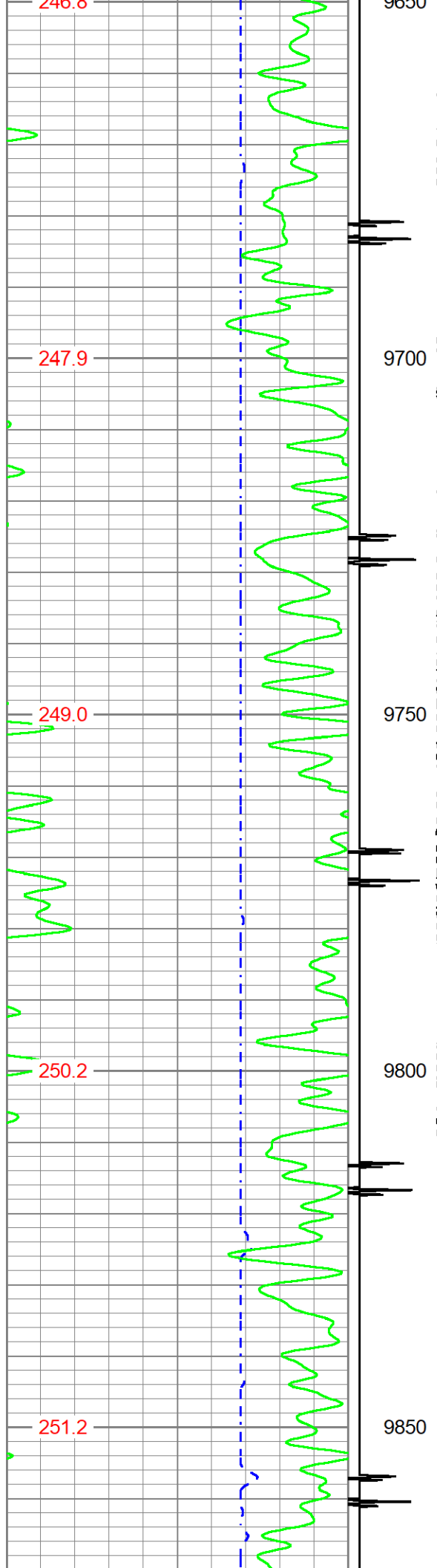


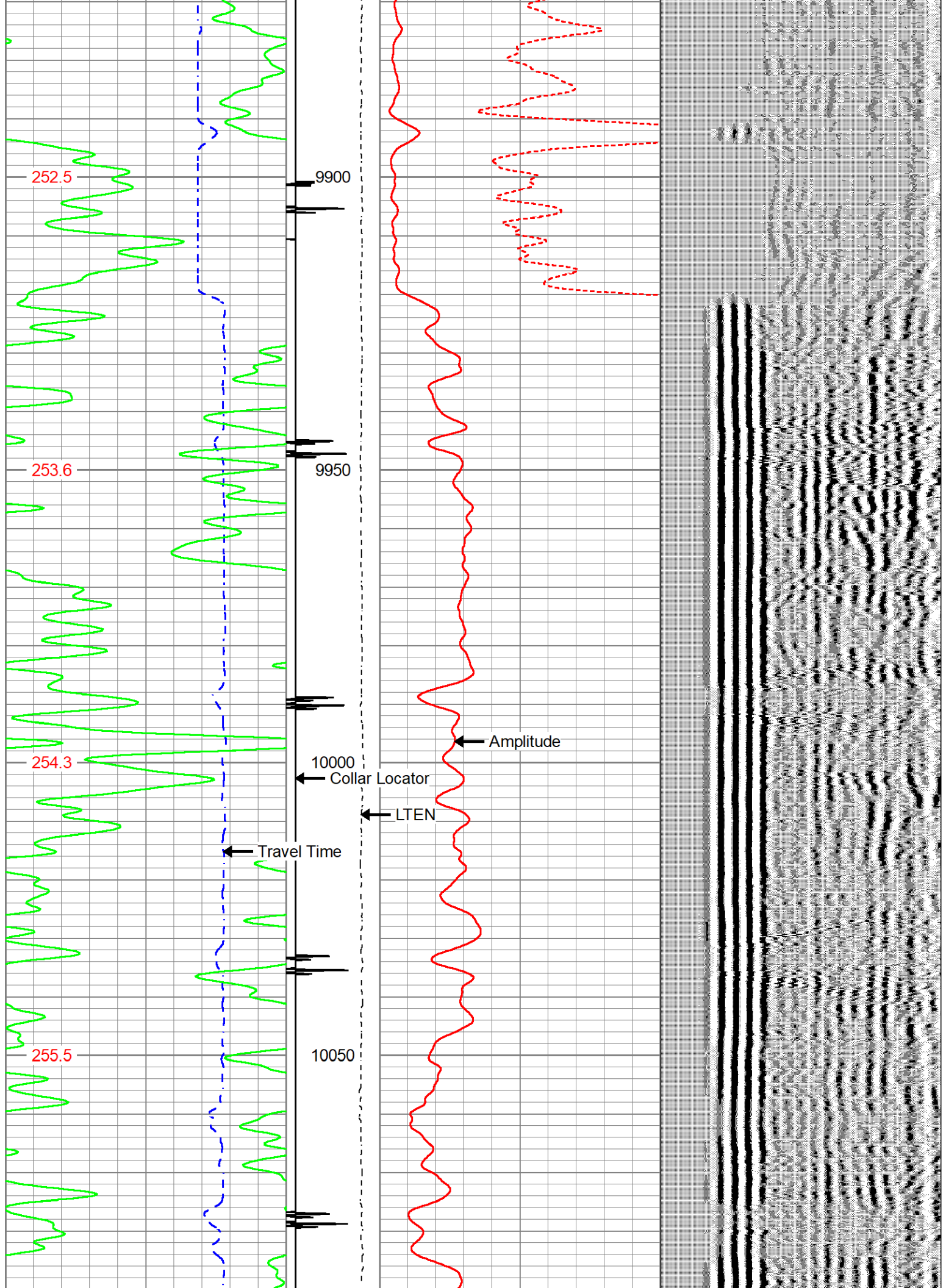
← Amplified Amplitude

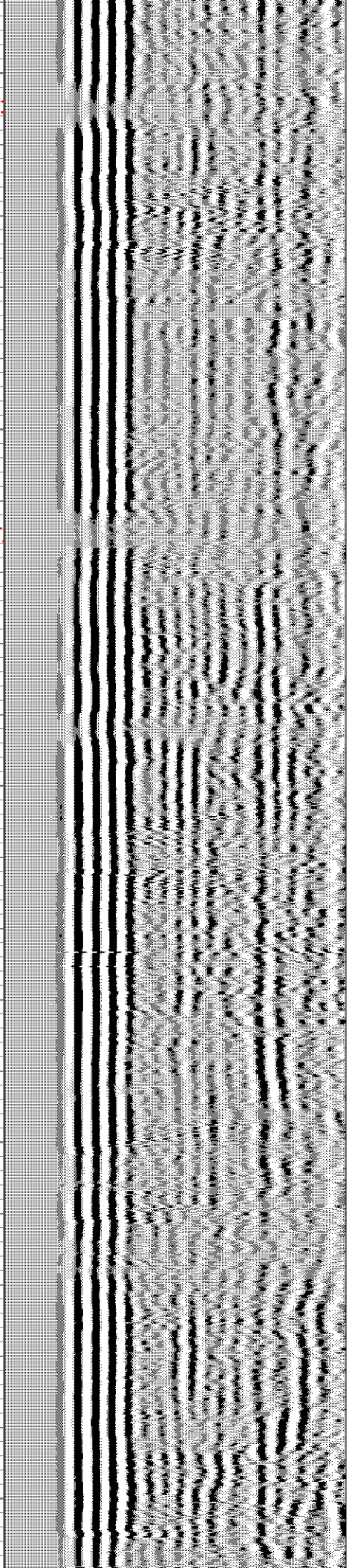
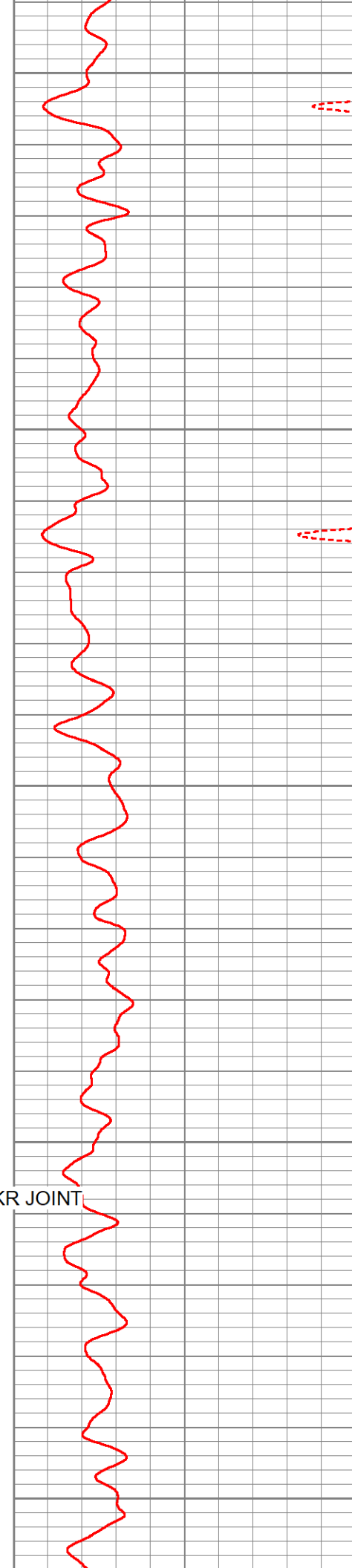
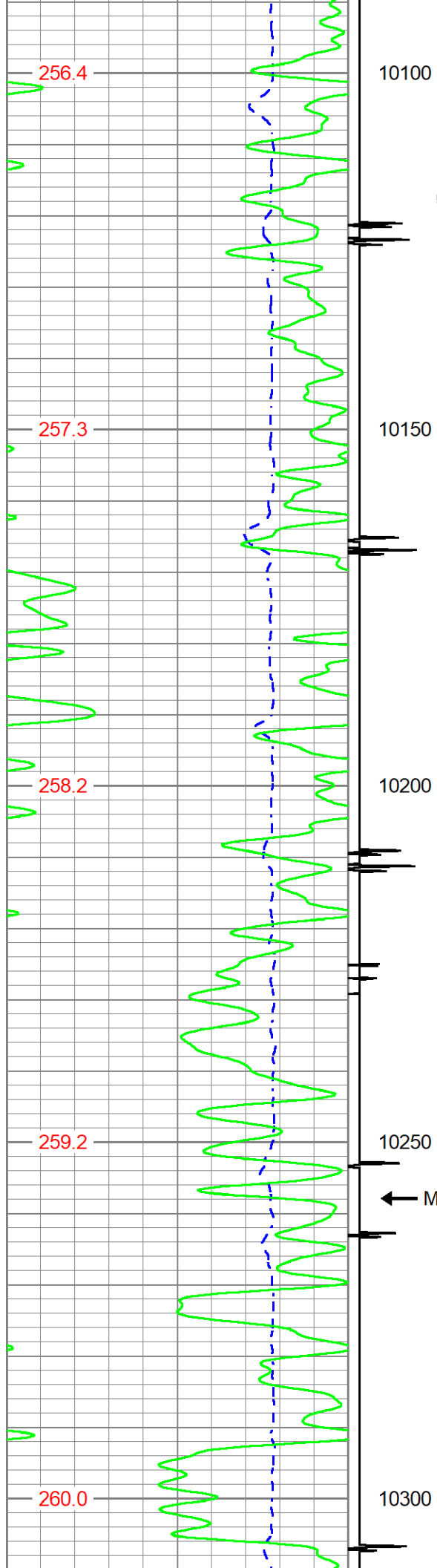


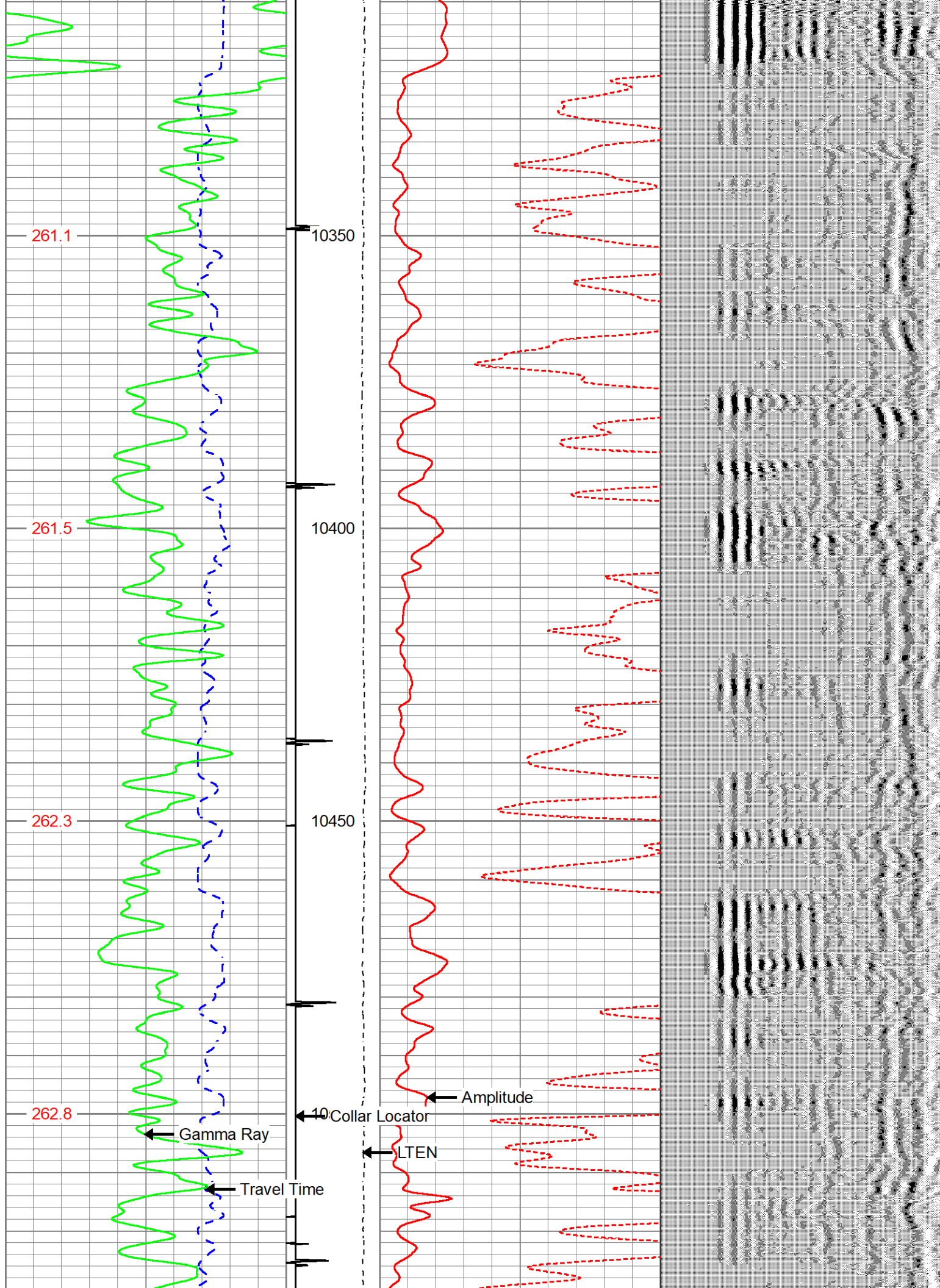


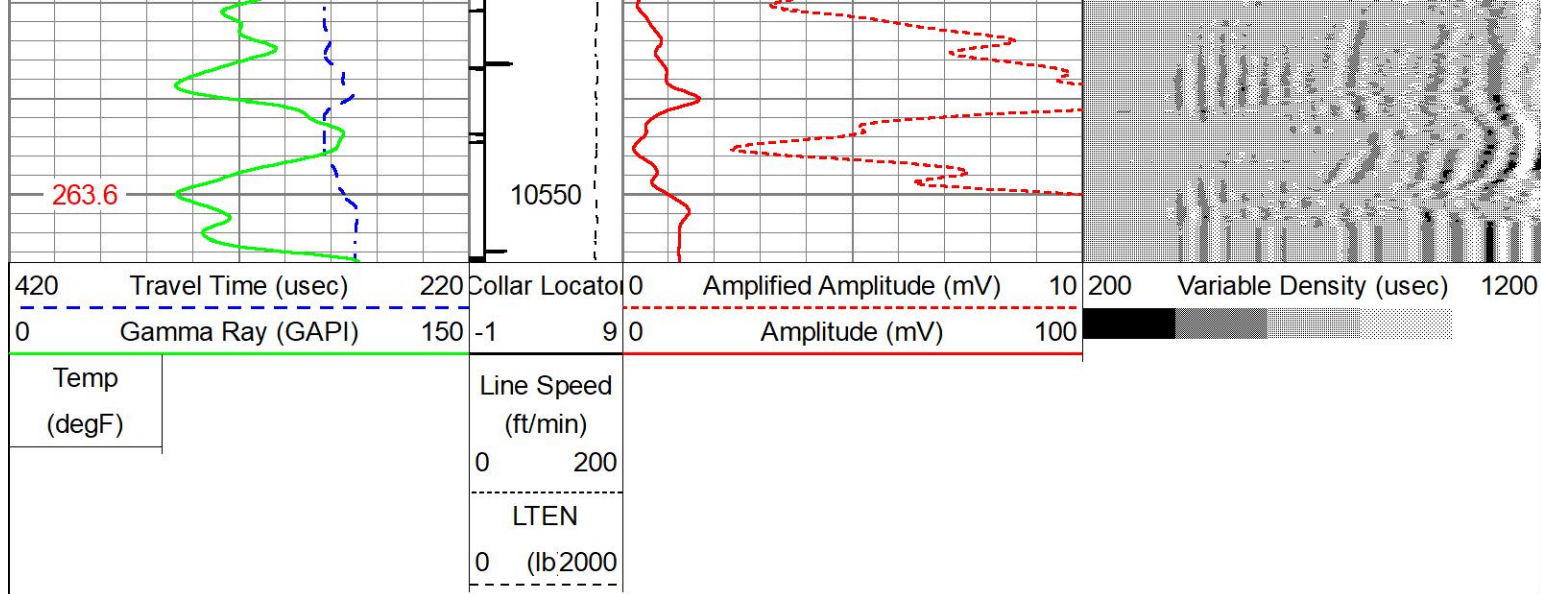






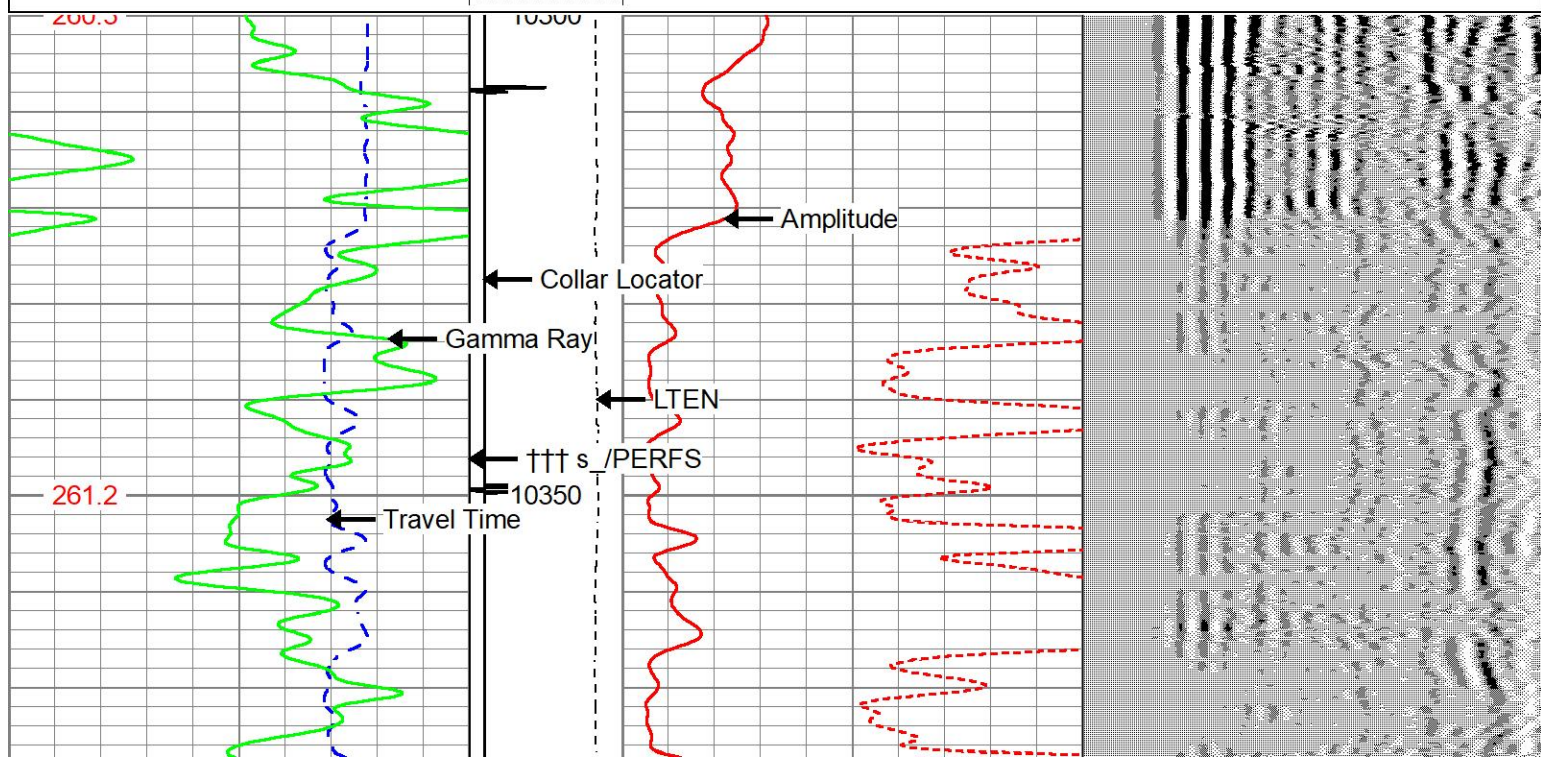
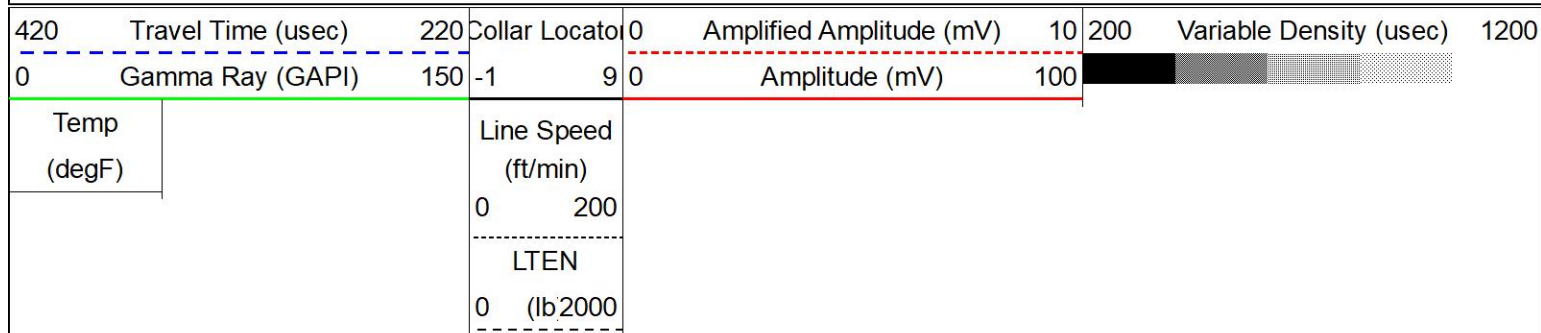


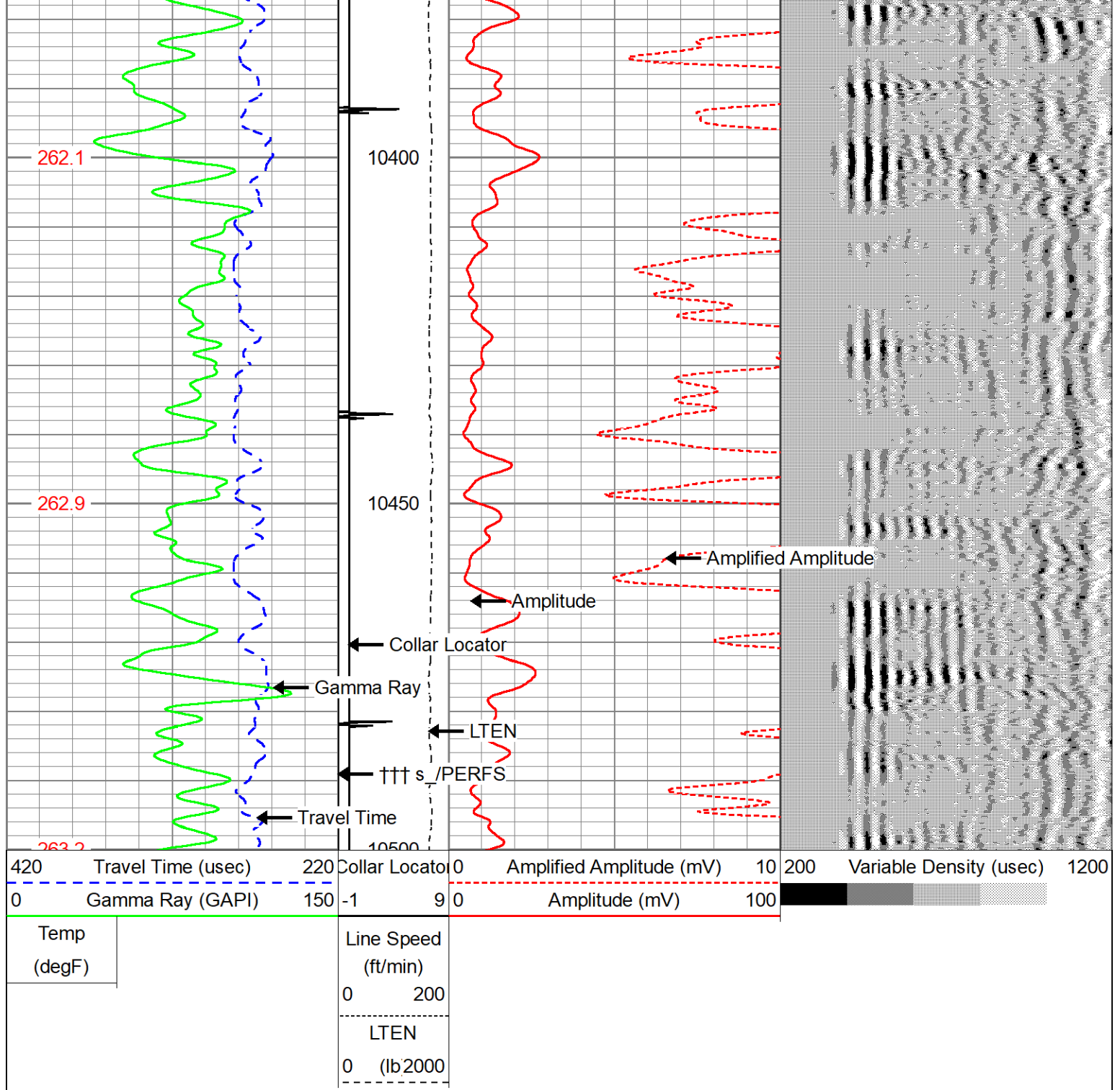




REPEAT PASS - 5 INCH

Database File gw_ottesen_06-370hc.db
 Dataset Pathname run2cbl/pass8
 Presentation Format cbl_cs
 Dataset Creation Fri Jan 25 14:41:21 2019
 Charted by Depth in Feet scaled 1:240





Log Variables

Database: C:\ProgramData\Warrior\Data\gw_ottesen_06-370hc.db
Dataset: field/well/run2cbl/pass9/_vars_

Top - Bottom

BHTEMP_Src TEMP	BOREID in 7.875	BOTTEMP degF 100	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 0	SRFTEMP degF 0	TDEPTH ft 0			

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector

BOREID : Borehole ID

MINAMPL : Minimum Amplitude

MINATTN : Minimum Attenuation

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

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

Calibration Report

Database File gw_ottesen_06-370hc.db
Dataset Pathname run2cbl/pass9
Dataset Creation Fri Jan 25 14:46:33 2019

Gamma Ray Calibration Report

Serial Number: FW1304-44
Tool Model: Probe275
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: FW1808-069
Tool Model: Probe 2.75 Radii W/Temp

Calibration Casing Diameter: 5.500 in
Calibration Depth: 553.708 ft

Master Calibration, performed Fri Jan 25 14:02:43 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	0.347	1.000	71.921	205.804	0.432
CAL	0.004	0.716				
5'	0.049	0.321	1.000	71.921	260.228	-11.697
SUM						
S1	0.002	0.386	0.000	71.921	187.278	-0.290
S2	-0.003	0.324	0.000	71.921	220.162	0.570
S3	0.003	0.332	0.000	71.921	218.968	-0.668
S4	0.003	0.331	0.000	71.921	219.498	-0.691
S5	0.001	0.328	0.000	71.921	219.883	-0.126
S6	0.004	0.333	0.000	71.921	218.724	-0.929
S7	0.004	0.331	0.000	71.921	219.686	-0.839
S8	0.003	0.327	0.000	71.921	222.163	-0.626

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.716	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	9.05		RBT-Probe 2.75 Radii W/Temp (FW1808-C9.39) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	90.00
WVFS7	9.05					
WVFS6	9.05					
WVFS5	9.05					
WVFS4	9.05					
WVFS3	9.05					
WVFS2	9.05					
WVFS1	9.05					
WVFCAL	9.05					
WVF3FT	9.05					
WVF5FT	8.05					
HEADVOLT	4.80					
CCL	3.92					
GR	2.58		GR-Probe275 (FW1304-44) Probe 2.75" Radial with Integral Gamma Ray Sub	4.80	2.75	57.00



Dataset:	gw_ottesen_06-370hc.db: field/well/run2cbl/pass9
Total length:	15.19 ft
Total weight:	152.00 lb
O.D.:	2.75 in



Company	GREAT WESTERN OIL & GAS
Well	OTTESEN LE 06-370HC
Field	WATTENBERG
County	WELD
State	COLORADO

Country	USA
---------	-----