



**GAMMA RAY C.C.L  
CEMENT BOND V.D.L.**

Company		CONFLUENCE DJ LLC	
Well		UPRR 33 PAN AM NAV#1	
Field		WATTENBERG	
County		ADAMS	
State		COLORADO	
Location:		API # : 05-001-06229	
Permanent Datum		GL	
Log Measured From		KB	
Drilling Measured From		KB	
SEC 9		TWP 1S	
RGE 65W		Other Services	
Elevation		5145'	
K.B. 5151'		D.F. 5150'	
G.L. 5145'			
Date		9-AUG-2018	
Run Number		ONE	
Depth Driller		8124'	
Depth Logger		7400'	
Bottom Logged Interval		7399'	
Top Log Interval		SURFACE	
Open Hole Size		7-7/8"	
Type Fluid		WATER	
Density / Viscosity		8.33PPG	
Max. Recorded Temp.		N/A	
Estimated Cement Top		764'	
Time Well Ready		AM	
Time Logger on Bottom		10:38AM	
Equipment Number		41	
location		STERLING	
Recorded By		LEROY HOBBS	
Witnessed By		LARRY WEBB	
Borehole Record		Tubing Record	
Run Number		Bit	
From		To	
Size		Weight	
From		To	
Casing Record		Size	
Surface String		8-5/8"	
Prod. String		24#	
Production String		4-1/2"	
Liner		10.5# & 11.6#	
		SURFACE	
		SURFACE	
		8120'	

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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

THANK YOU FOR USING KLX ENERGY SERVICES.

Calibration Report

Database File: uprr\_33\_pan\_am\_nav\_#1.db  
Dataset Pathname: pass2  
Dataset Creation: Thu Aug 09 10:34:38 2018 by Log Std Casedhole 10081

Serial Number: 080325  
Tool Model: Probe  
Performed: Thu Aug 09 09:57:15 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.7500 GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: 275HT  
Tool Model: PTS275HT

Calibration Casing Diameter: 4.500 in

Calibration Depth: 4269.917 ft

Master Calibration, performed Thu Aug 09 10:17:11 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	0.736	1.000	81.196	95.330	1.166
CAL	-0.001	0.851				
5'	-0.002	0.521	1.000	81.196	153.314	1.247
SUM						
S1	-0.001	0.739	0.000	81.196	109.637	0.153
S2	-0.001	0.706	0.000	81.196	114.847	0.156
S3	-0.002	0.693	0.000	81.196	116.795	0.208
S4	-0.002	0.690	0.000	81.196	117.378	0.176
S5	-0.001	0.733	0.000	81.196	110.572	0.146
S6	-0.001	0.759	0.000	81.196	106.794	0.159
S7	-0.002	0.767	0.000	81.196	105.571	0.180
S8	-0.001	0.777	0.000	81.196	104.275	0.132

Internal Reference Calibration, performed Wed Oct 27 09:00:55 2010:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.001	0.851	1.000	0.000

Air Zero Calibration, performed Sat Jun 16 10:42:57 2018:

	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	

### Temperature Calibration Report

Serial Number: 275HT  
Tool Model: PTS275HT  
Performed: Sun Jun 13 14:33:21 1993

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	1.00 degF	1.00 cps
Gain:	1.00	
Offset:	0.00	
Delta Spacing	1	

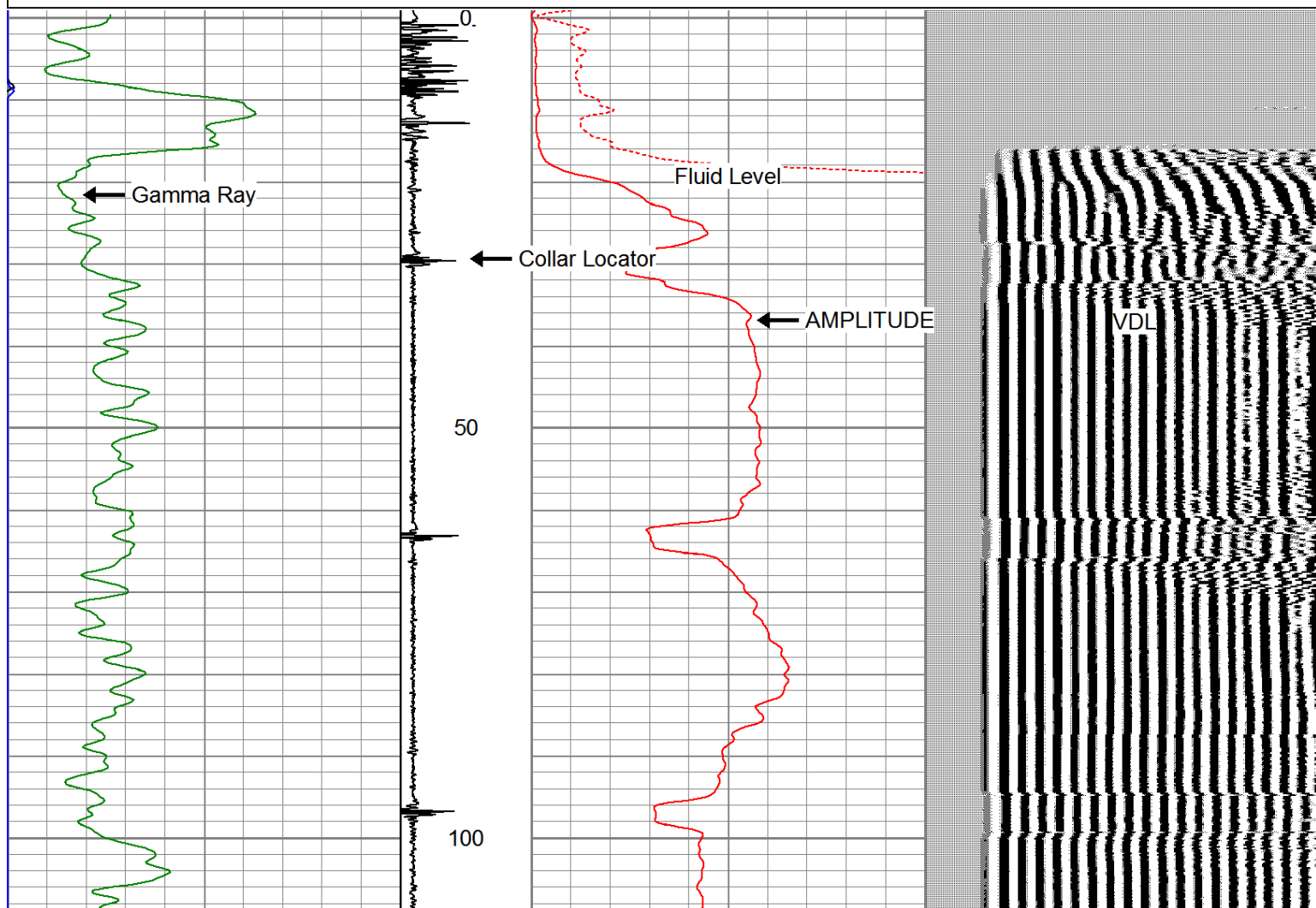


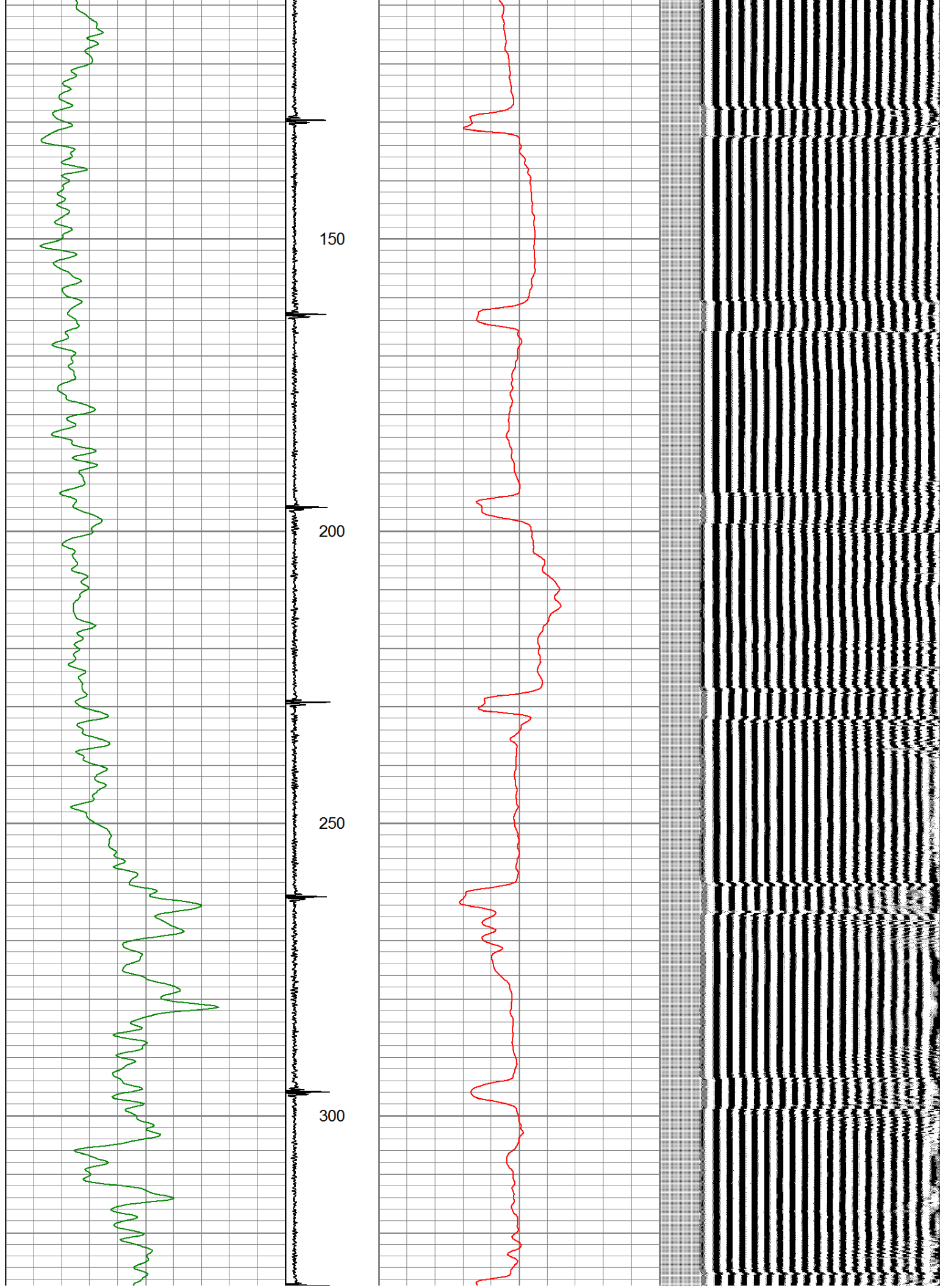
## CONFLUENCE DJ LLC

UPRR 33 PAN AM NAV#1  
05-001-06229

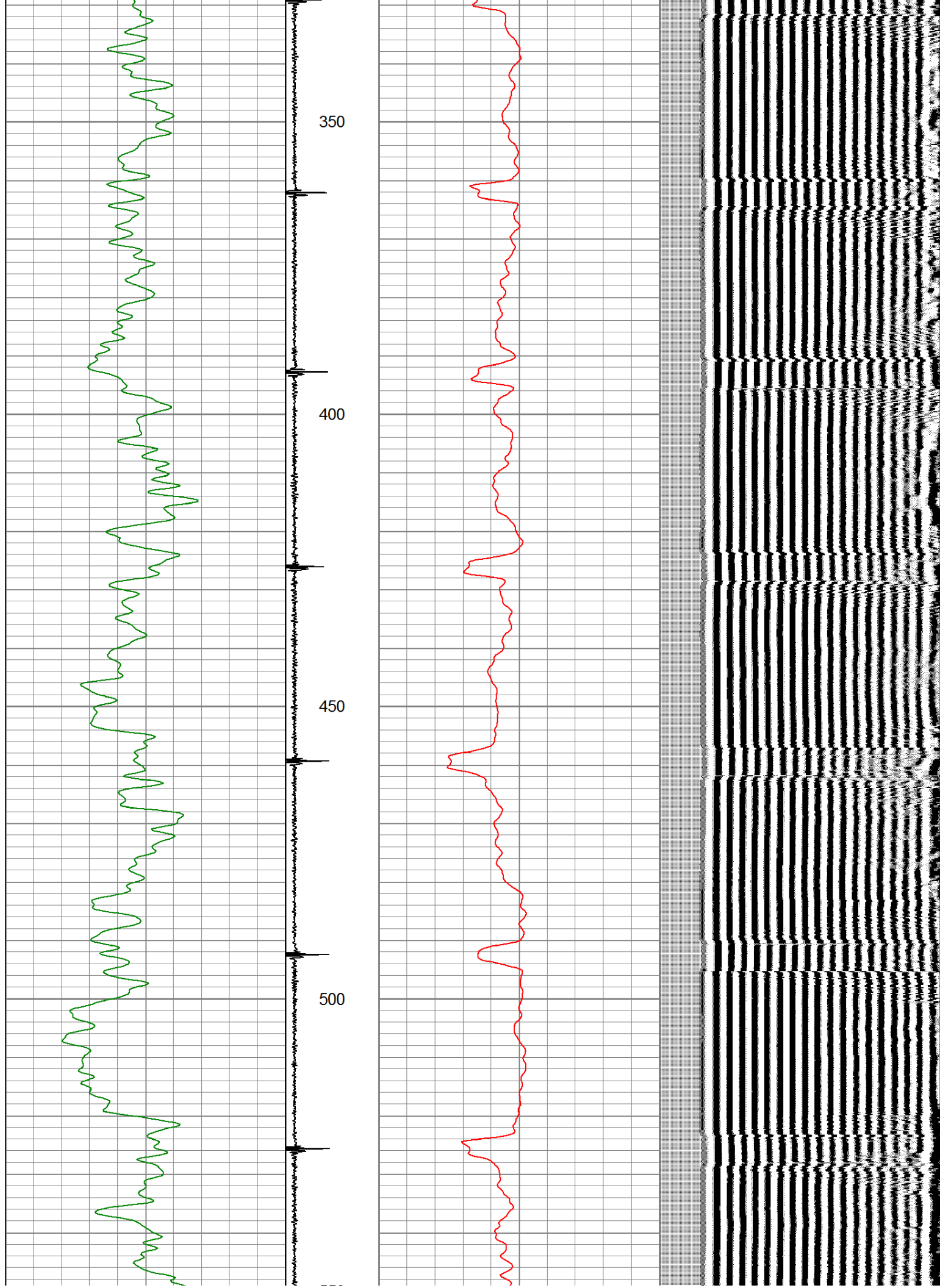
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Dataset Pathname: pass2  
Presentation Format: cbl\_drs\_  
Dataset Creation: Thu Aug 09 10:34:38 2018 by Log Std Casedhole 10081  
Charted by: Depth in Feet scaled 1:240

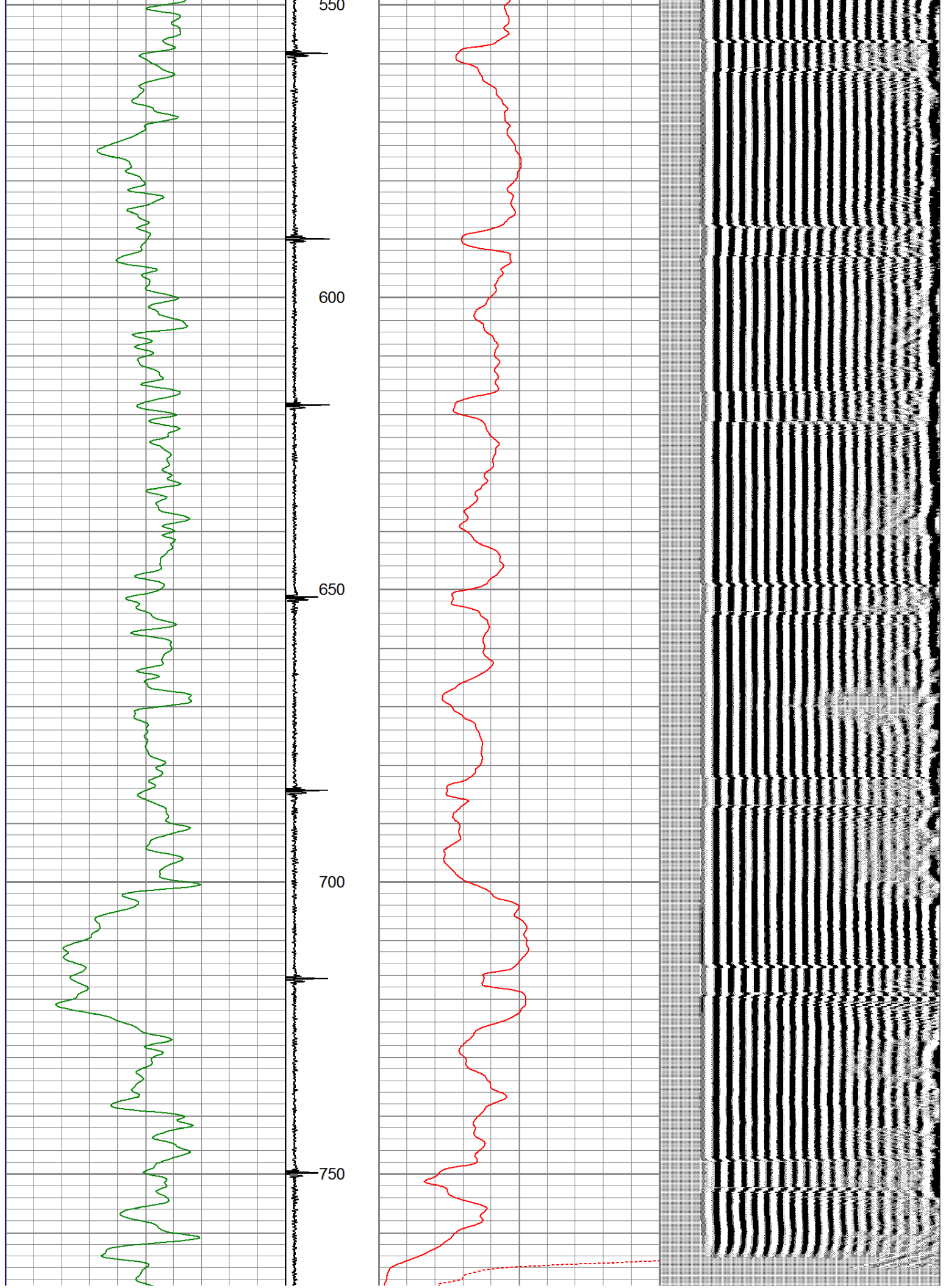
0	Gamma Ray (GAPI)	150	Collar Locator	0	AMP AMPLITUDE (mV)	10	200	VDL	1200
0	Line Speed (ft/min)	100	-1	9	0	AMPLITUDE (mV)	100		
0	DTMP (degF)	300	TEMP						
0	TEMP (degF)	300	(degF)						



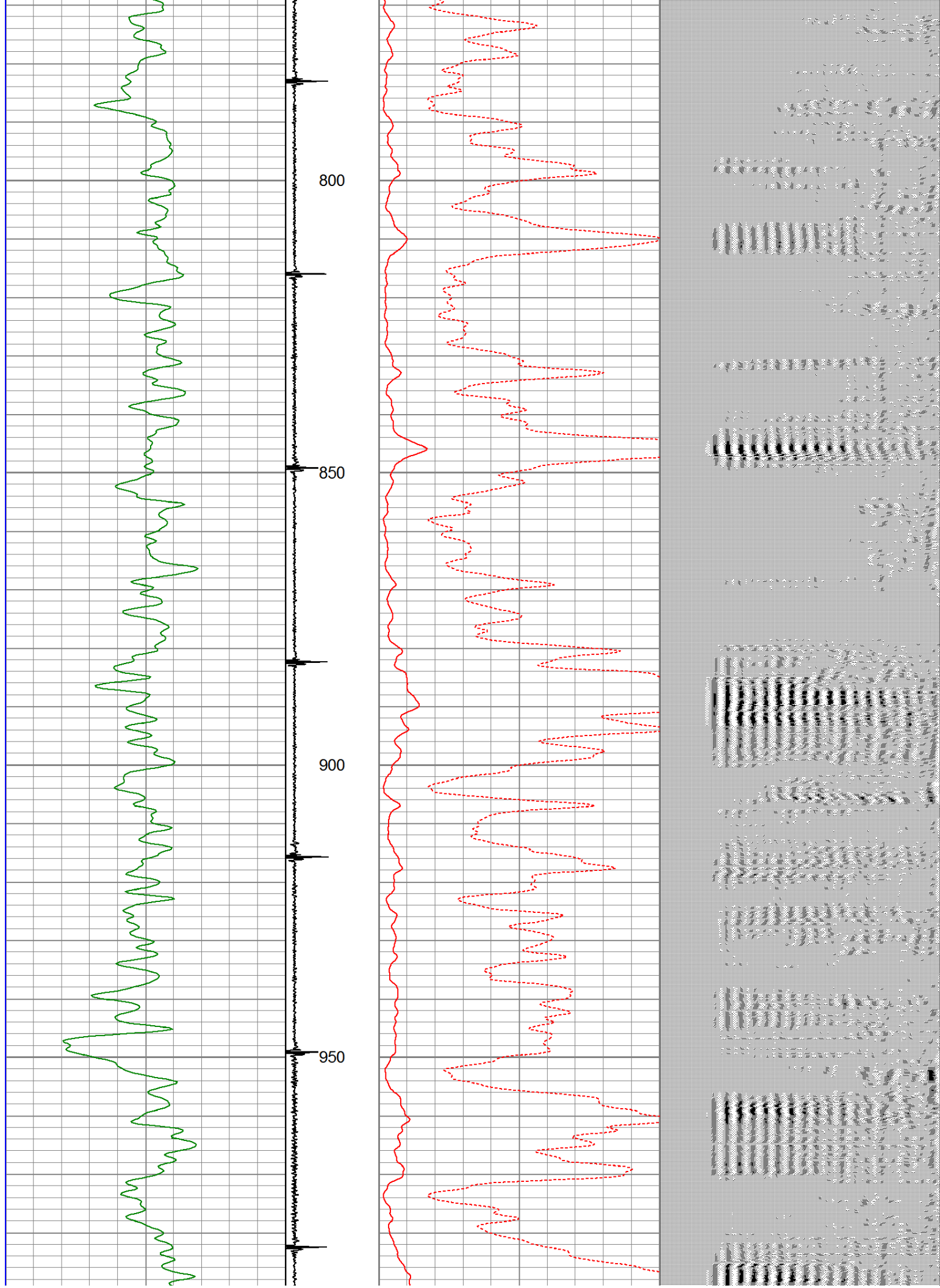


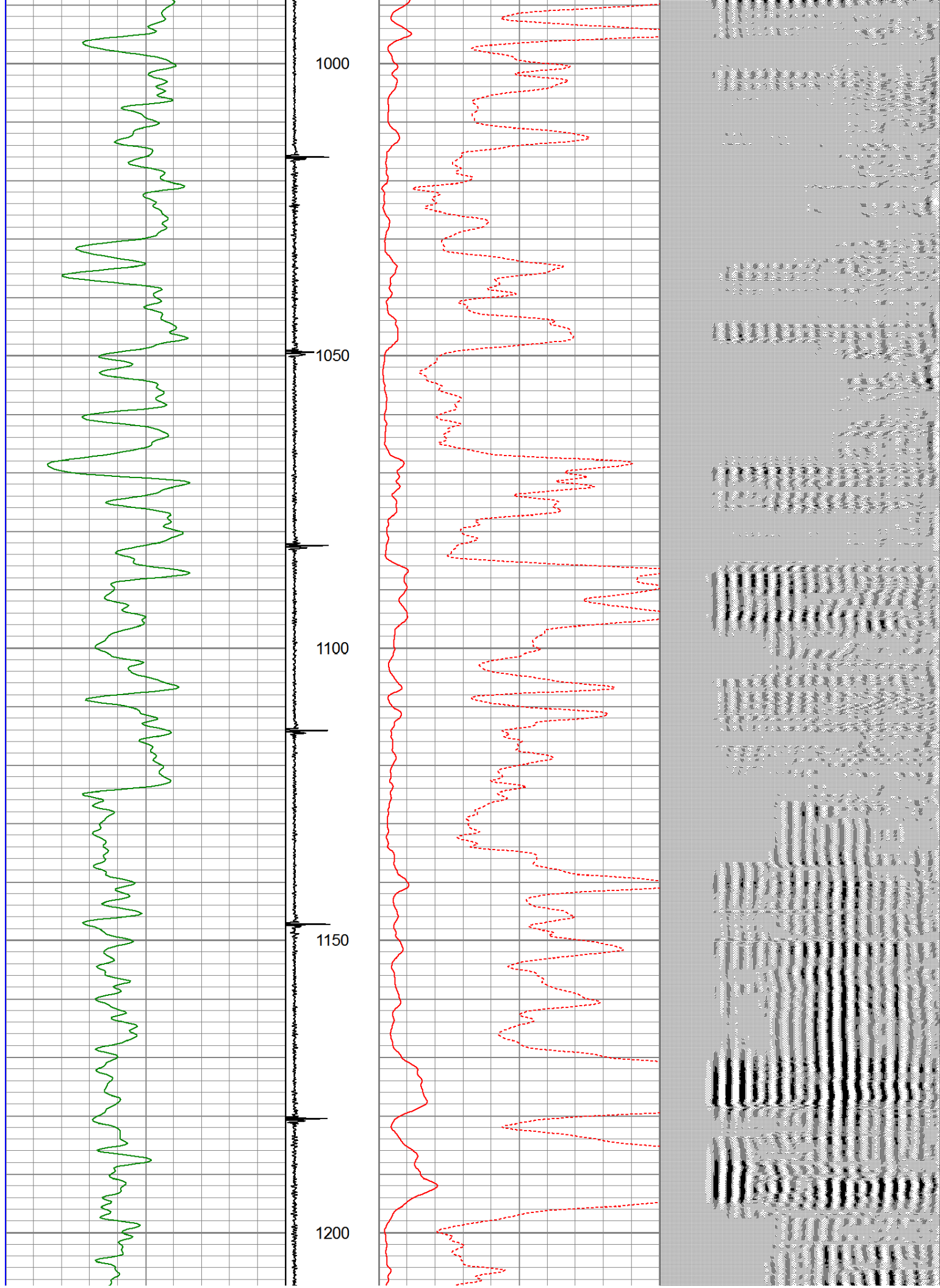




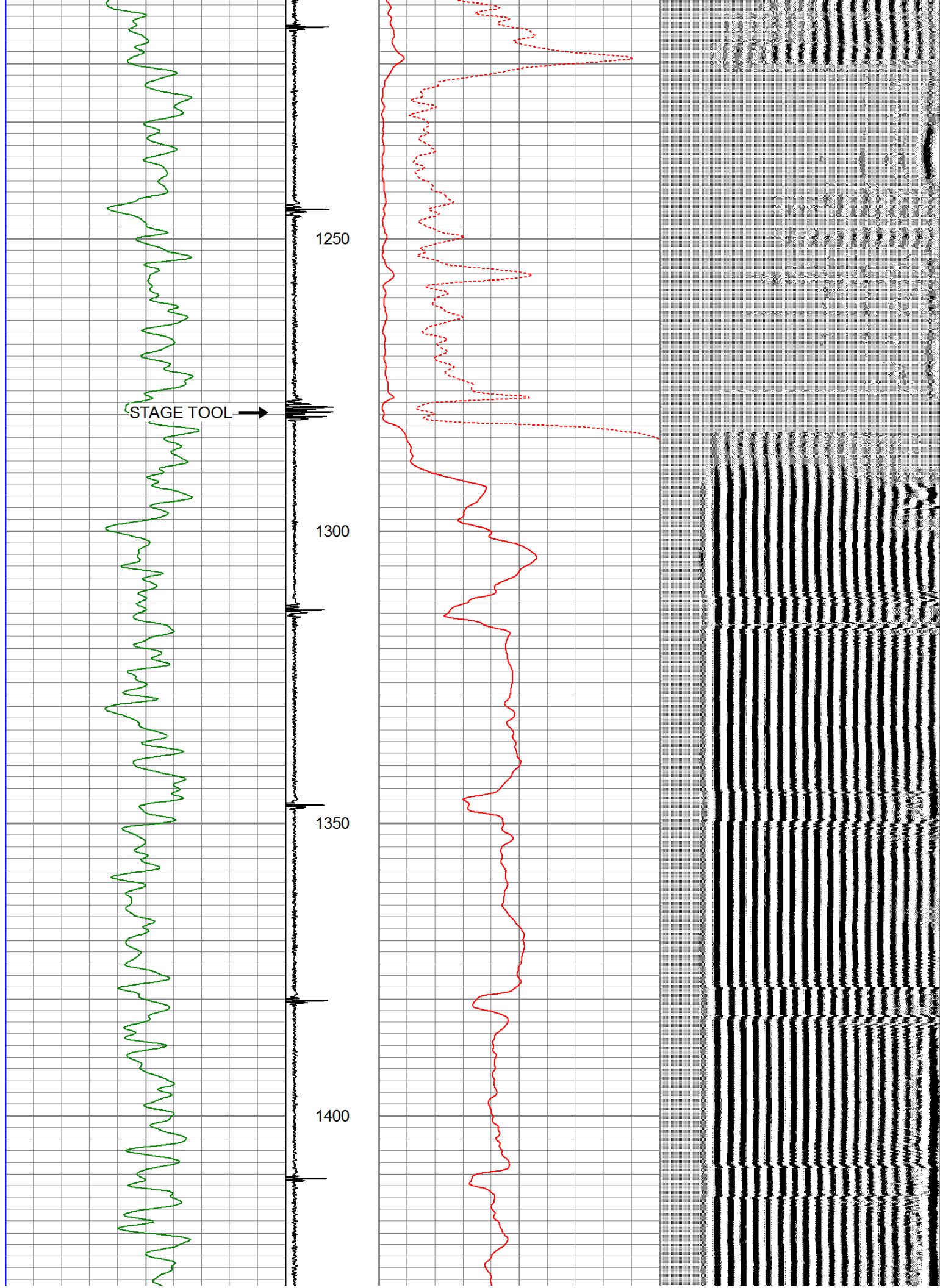


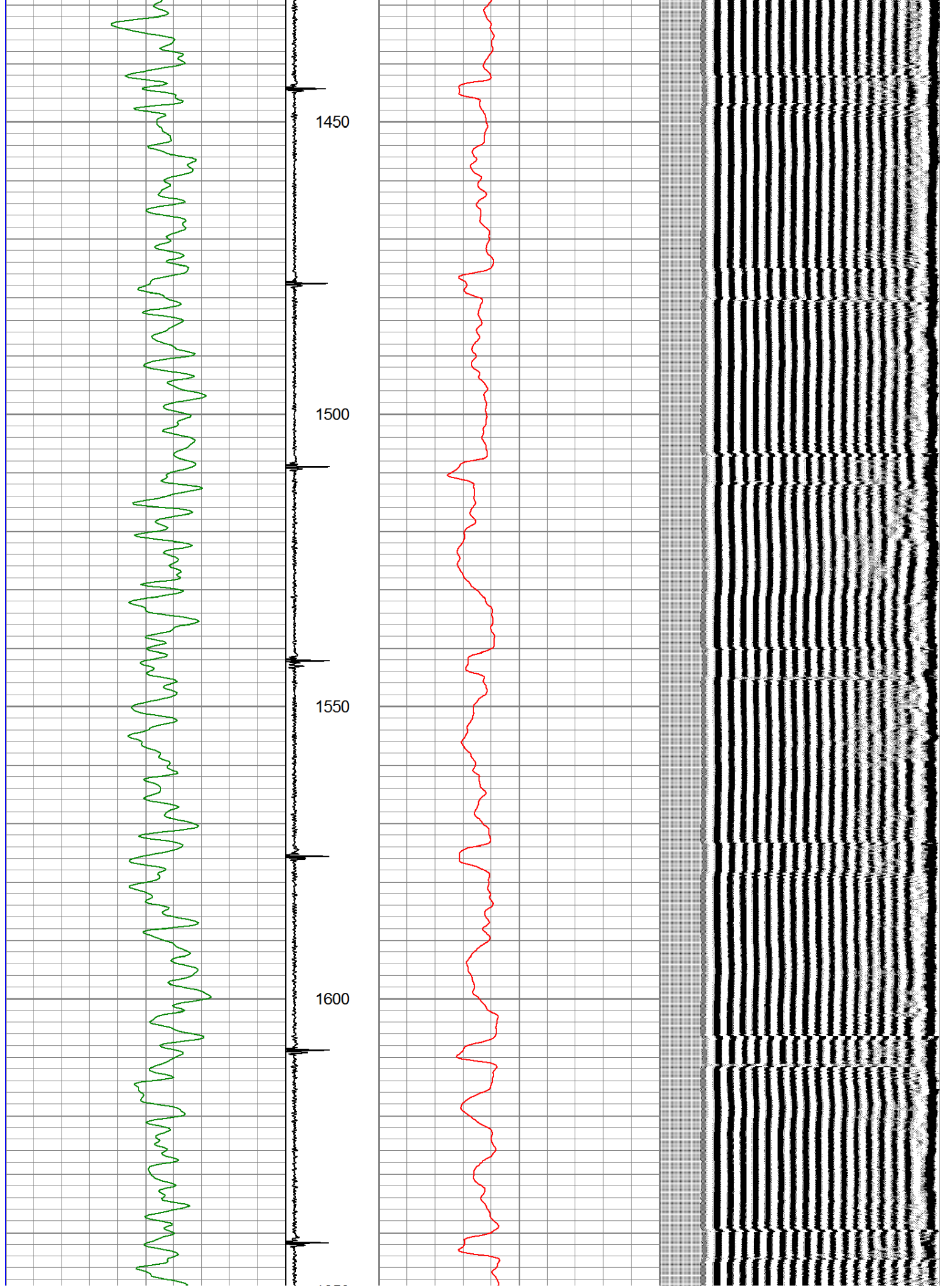




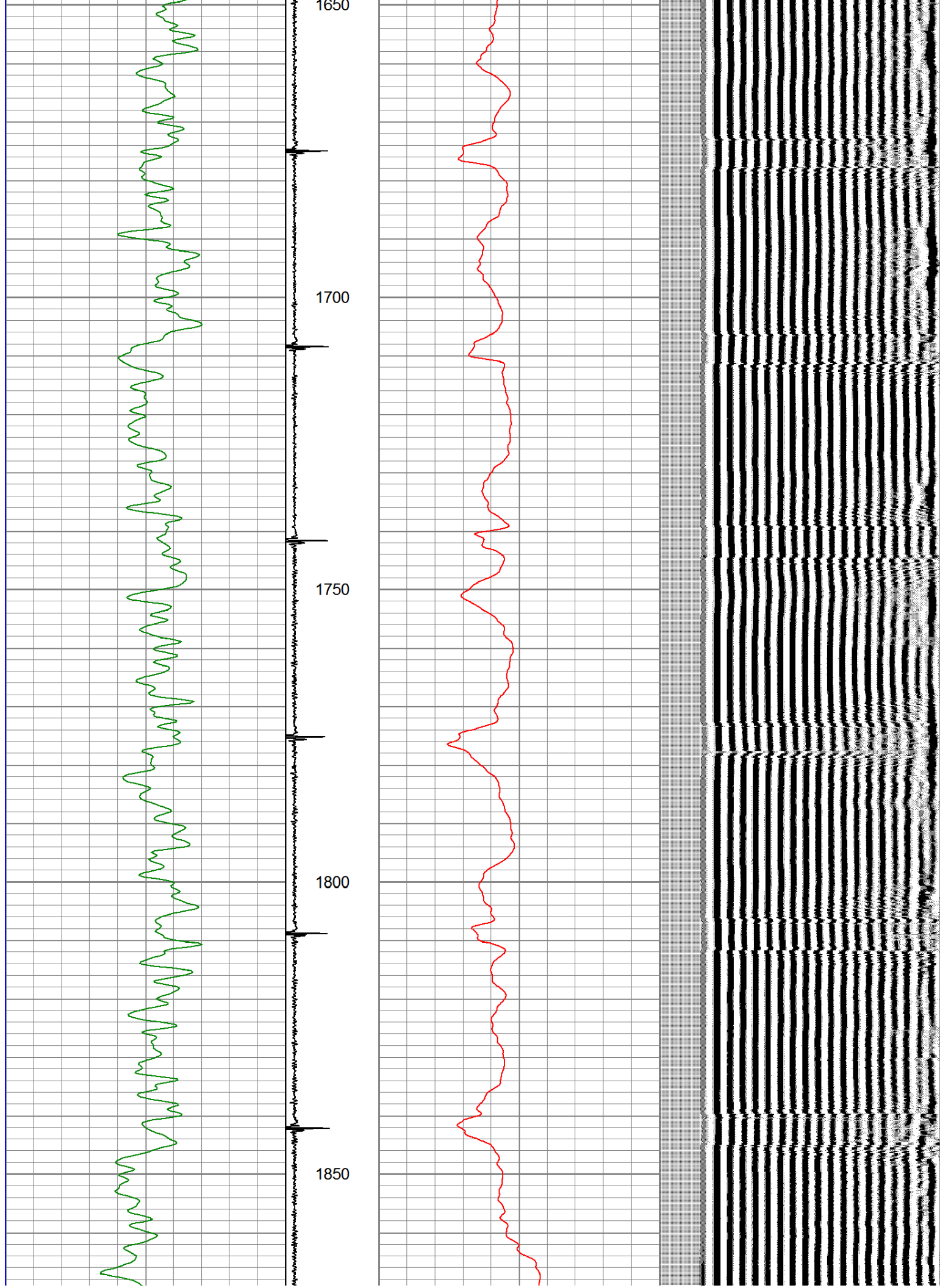




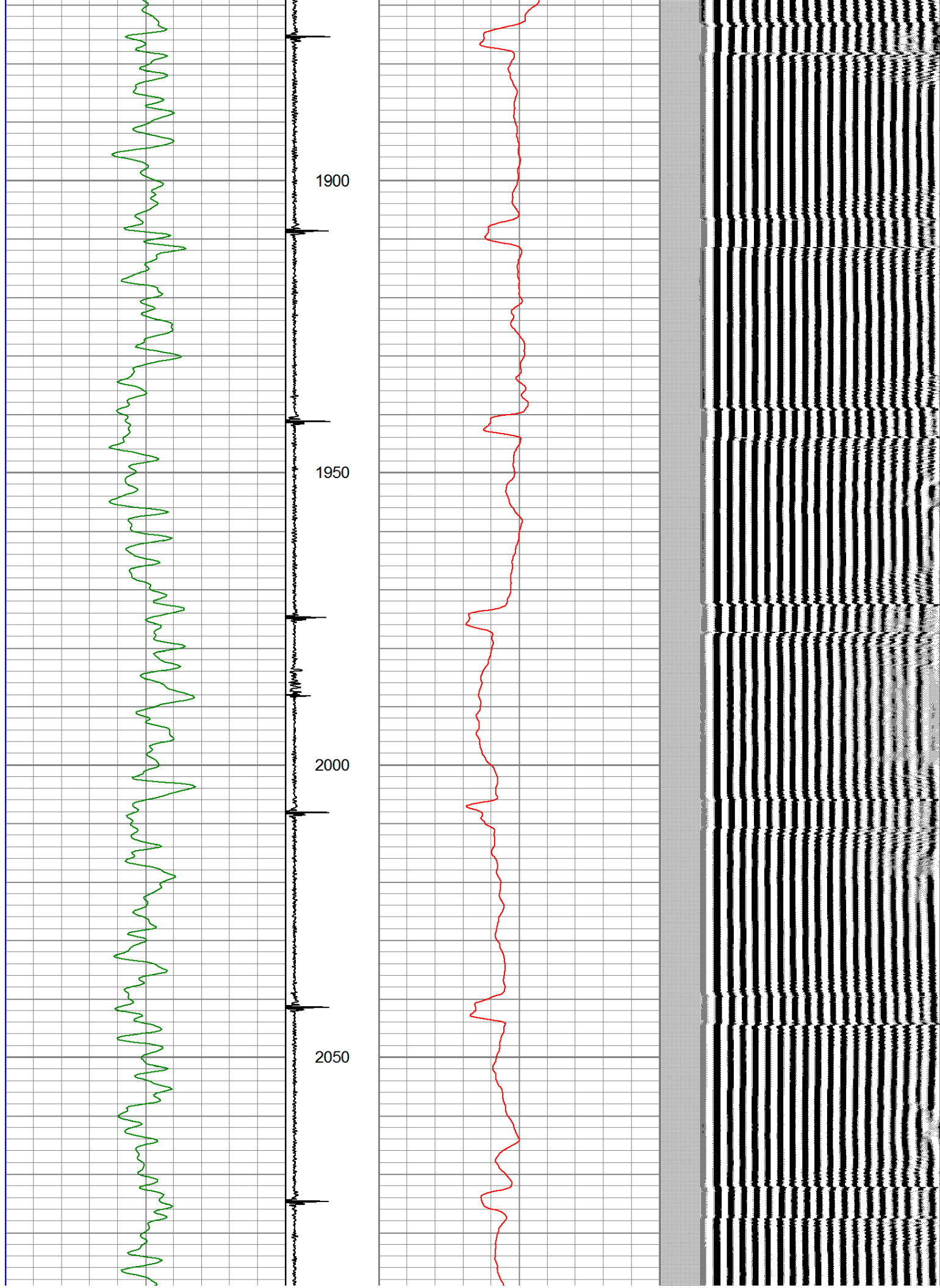


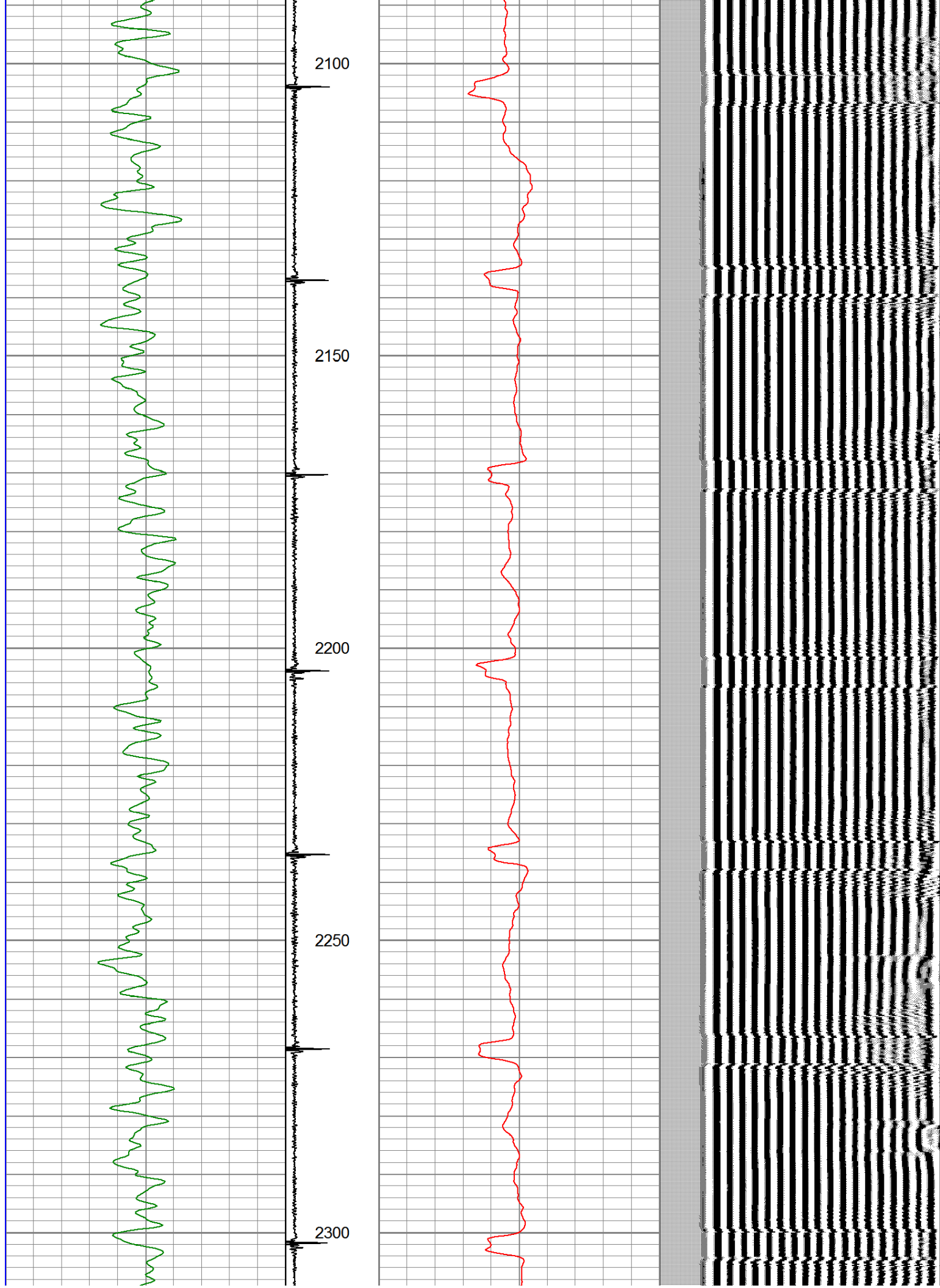


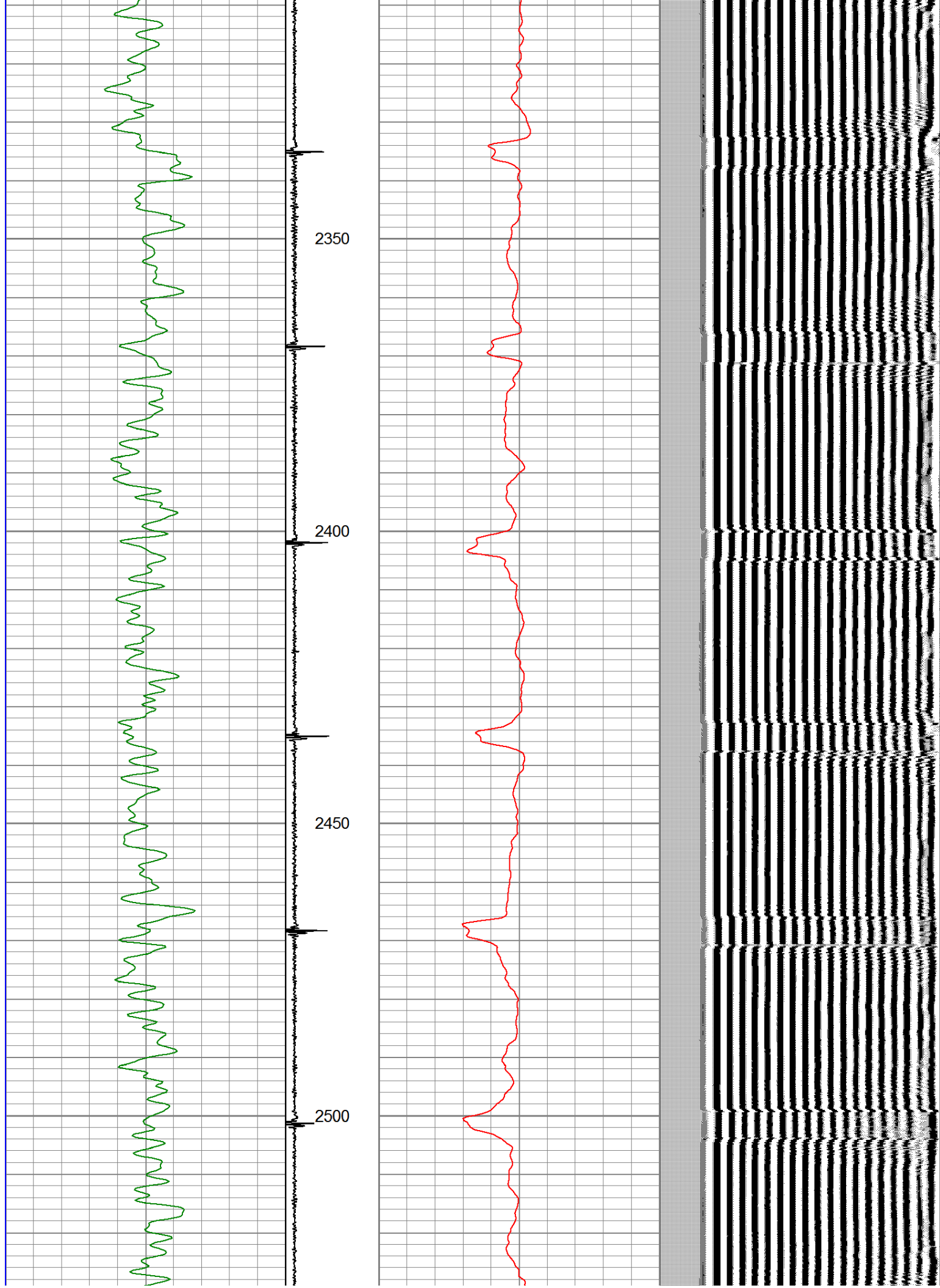




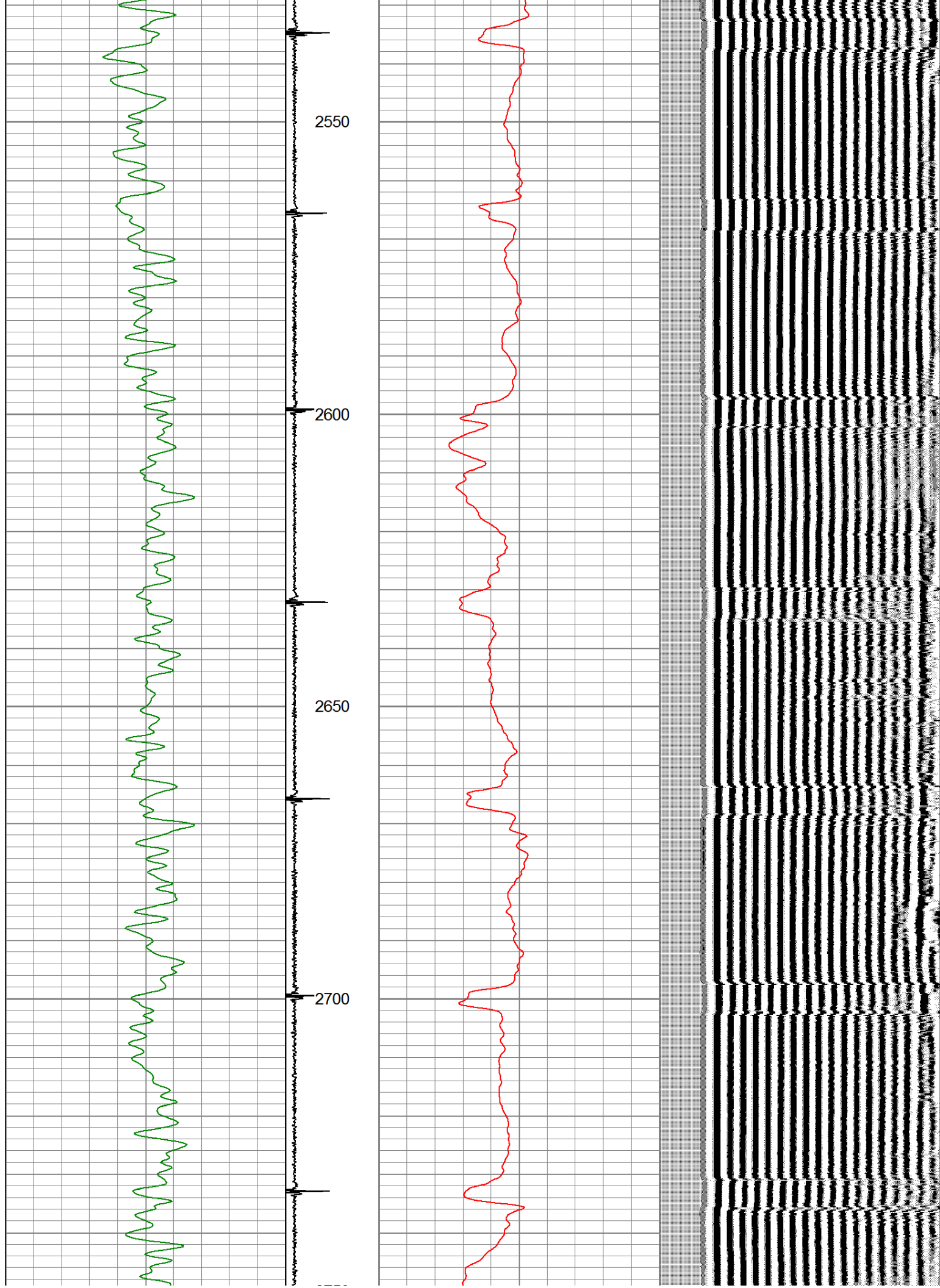


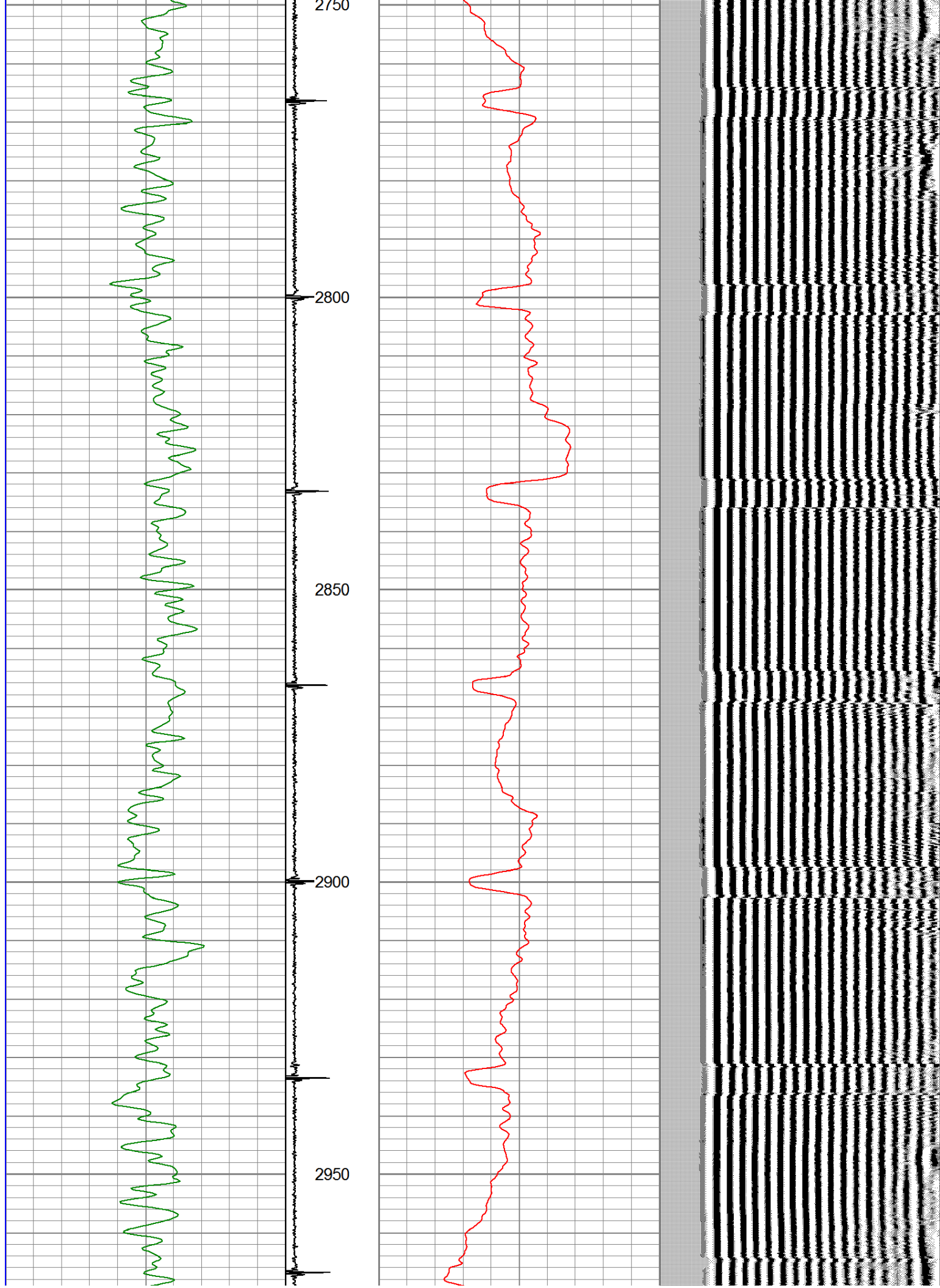


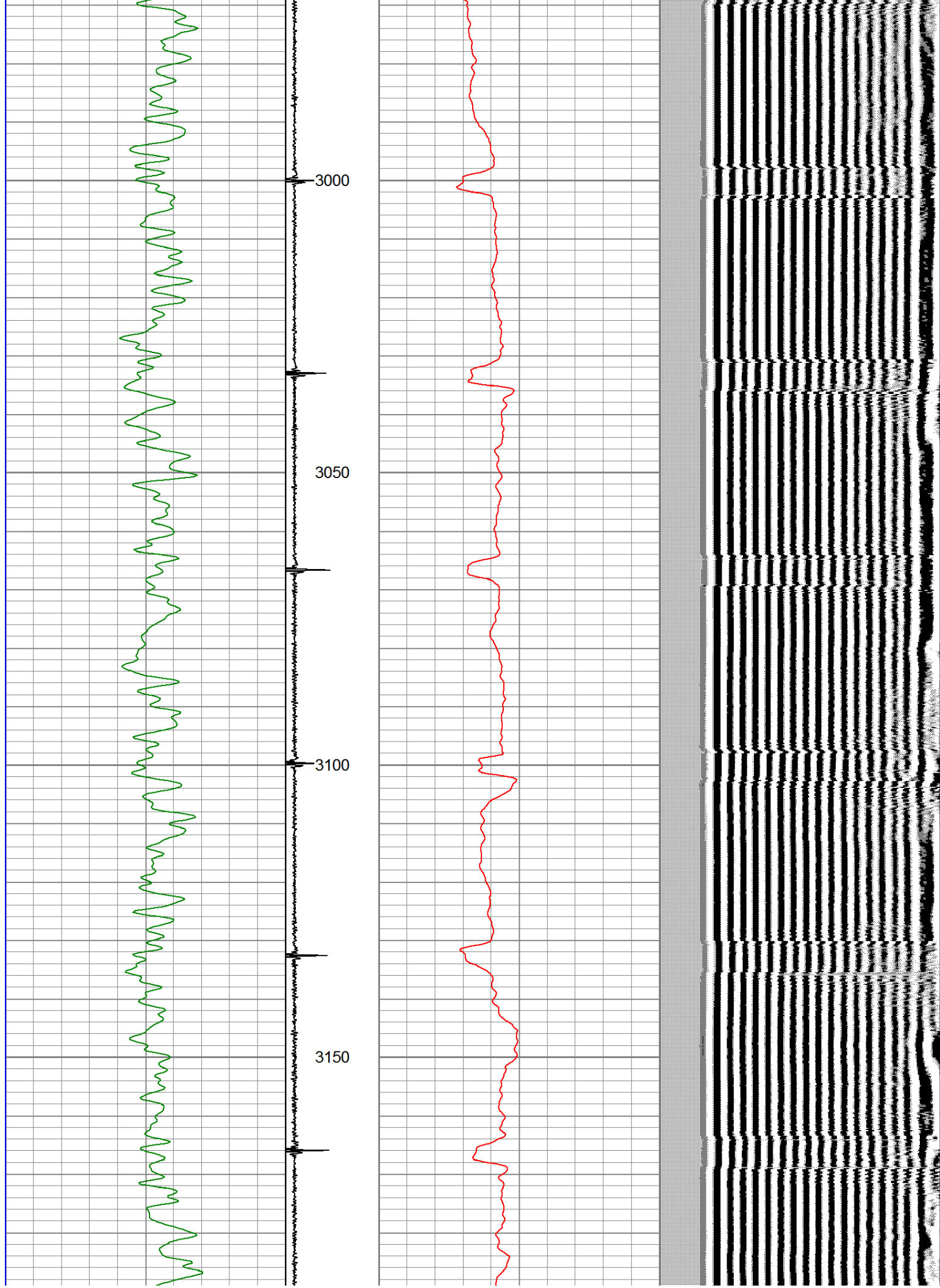




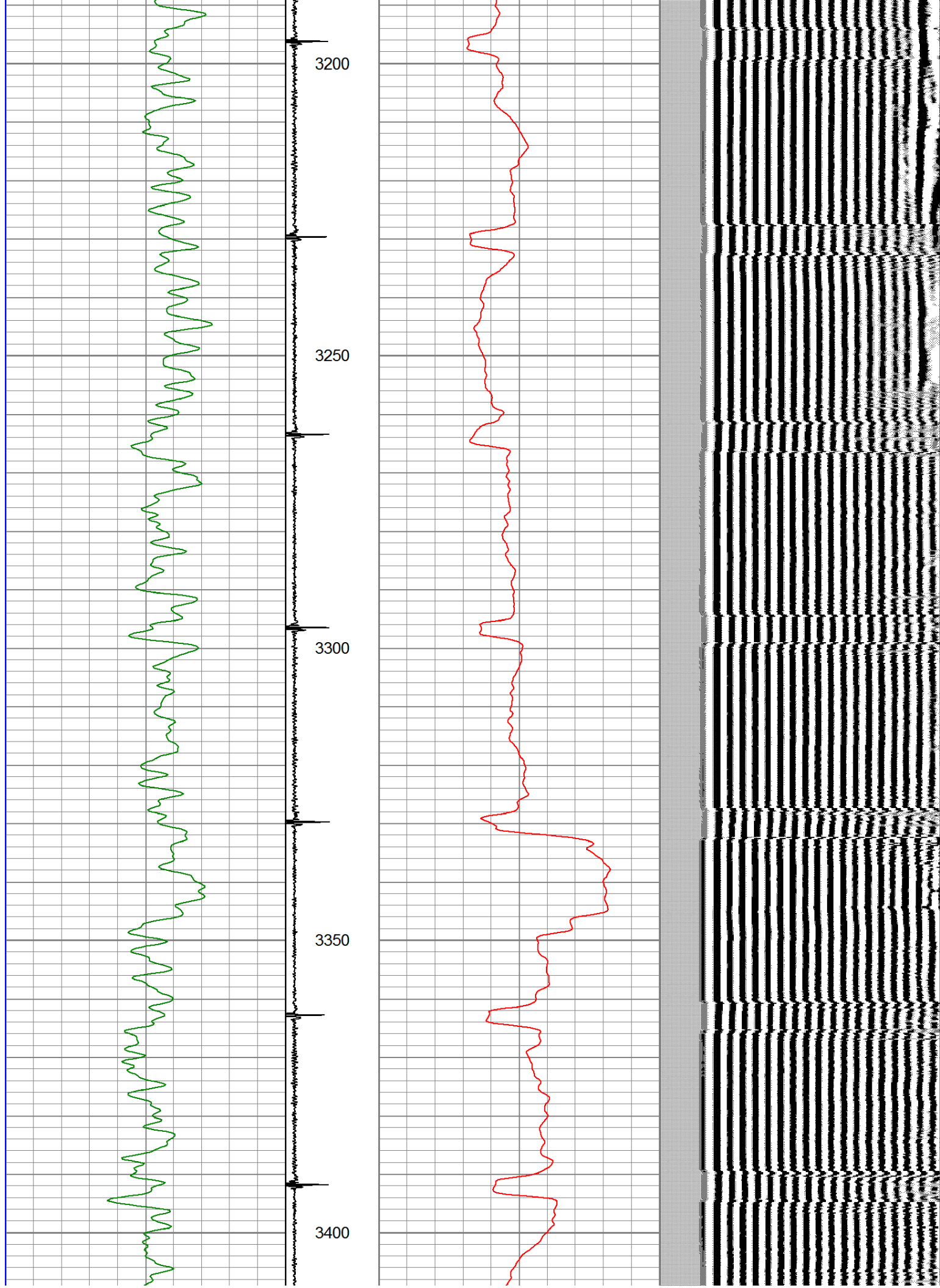


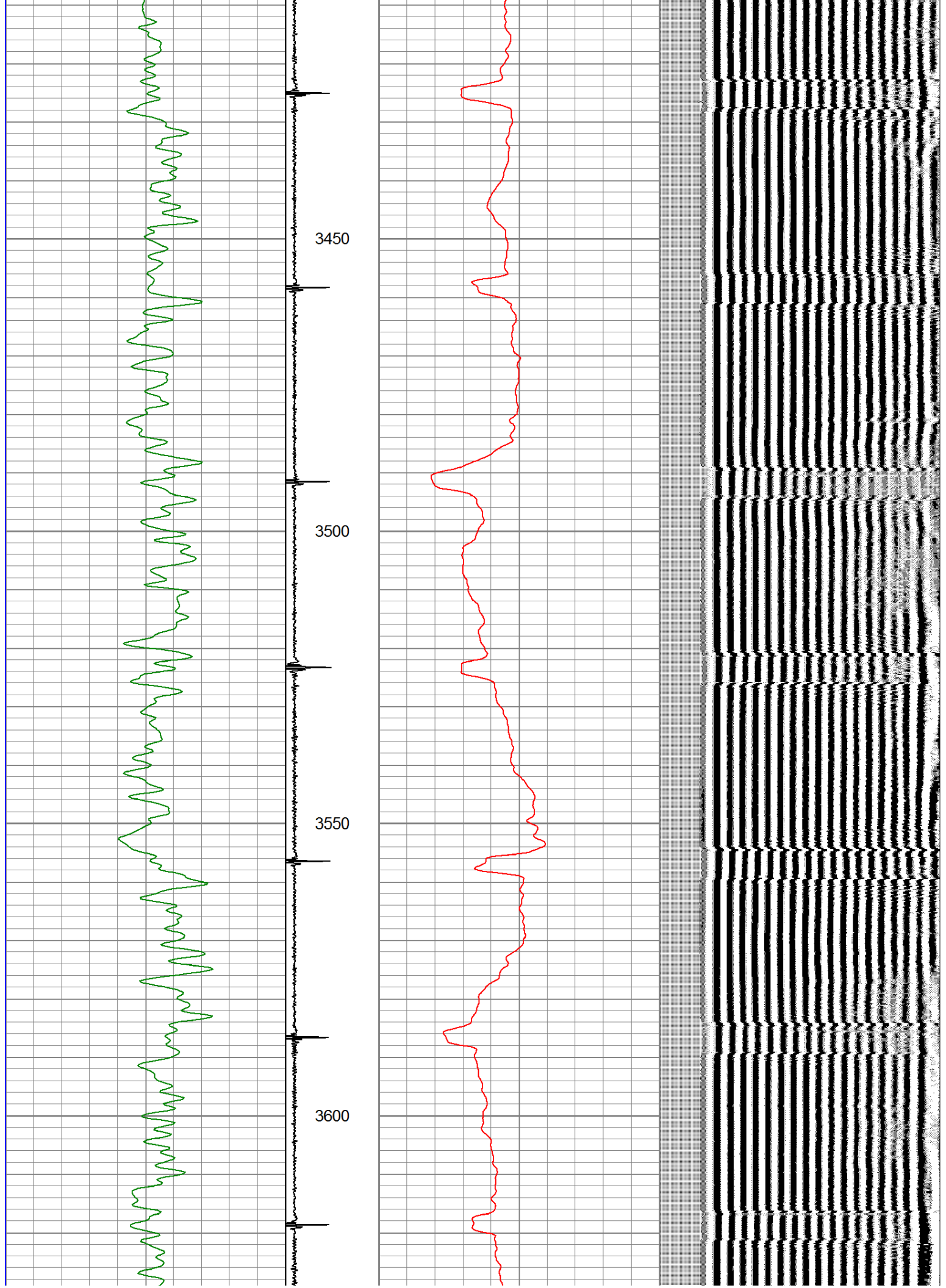


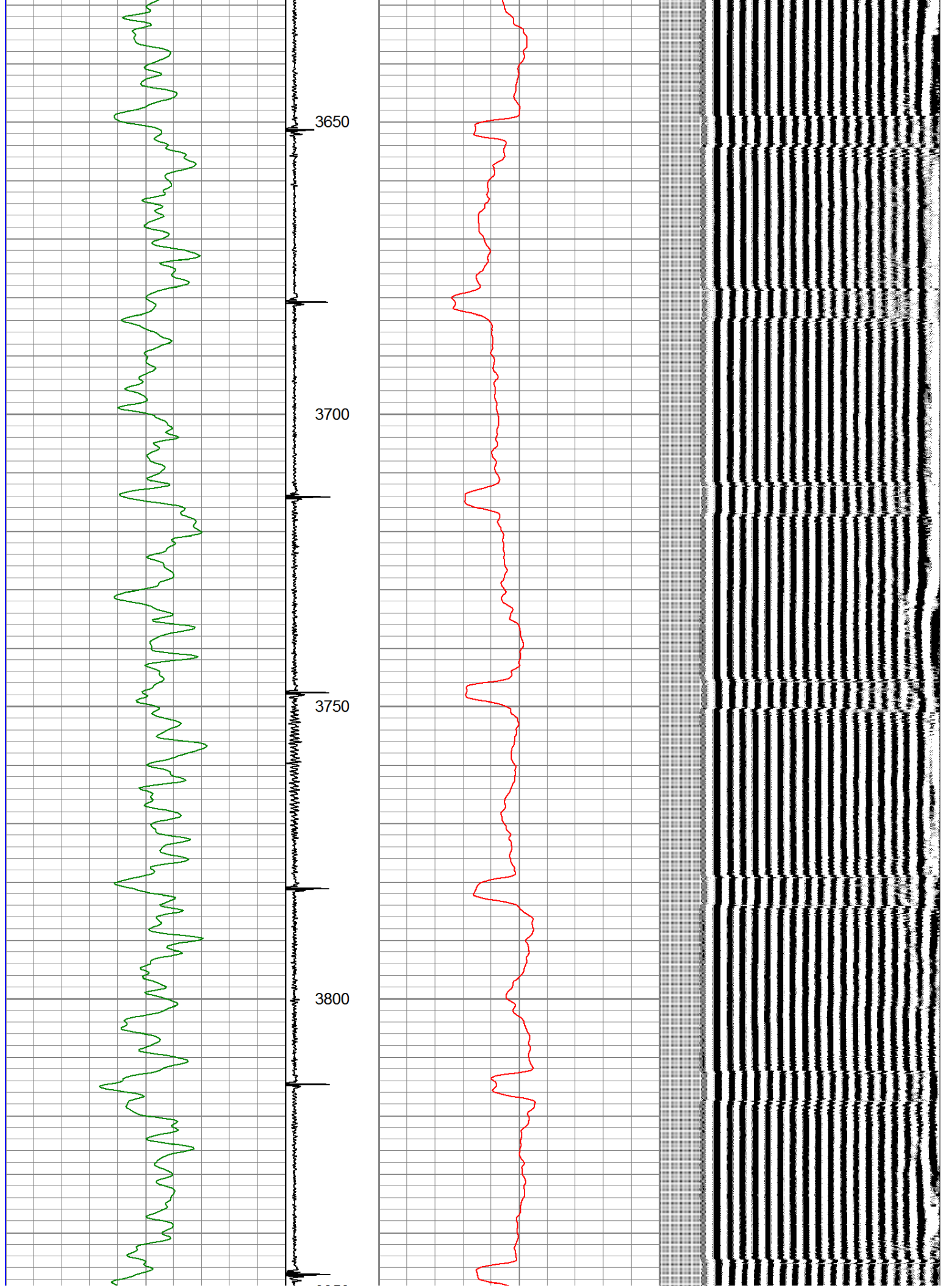




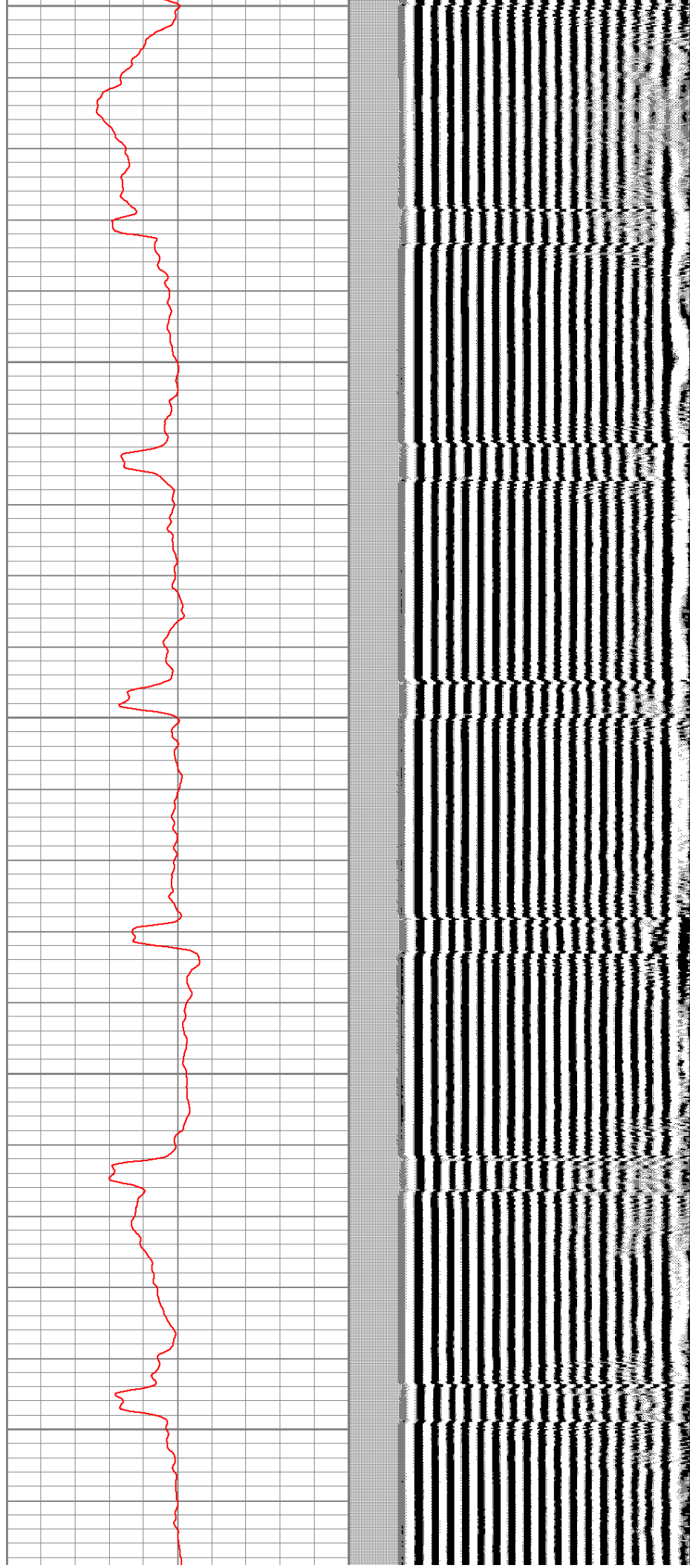
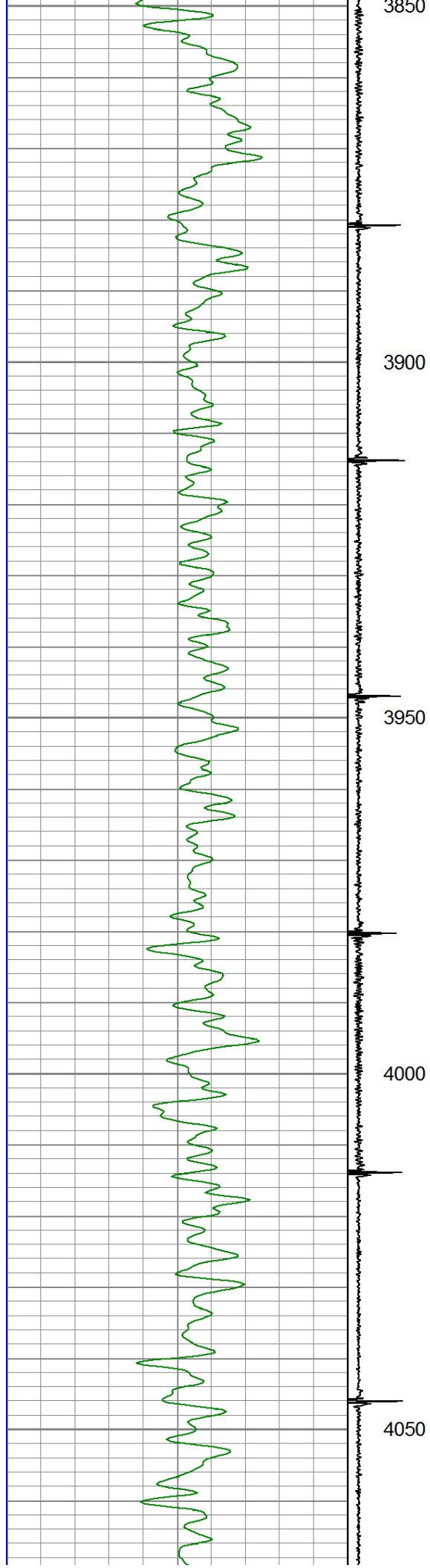


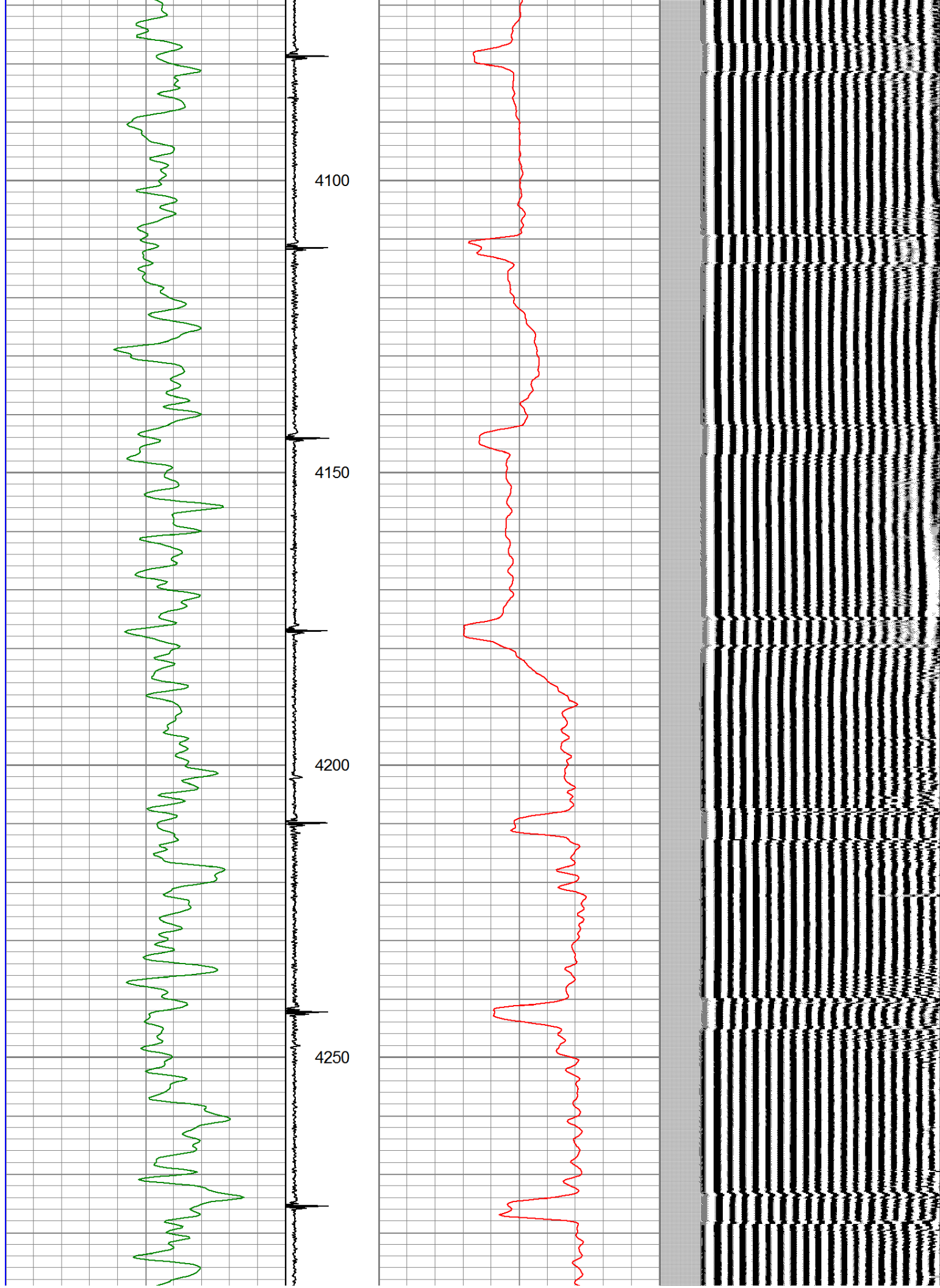


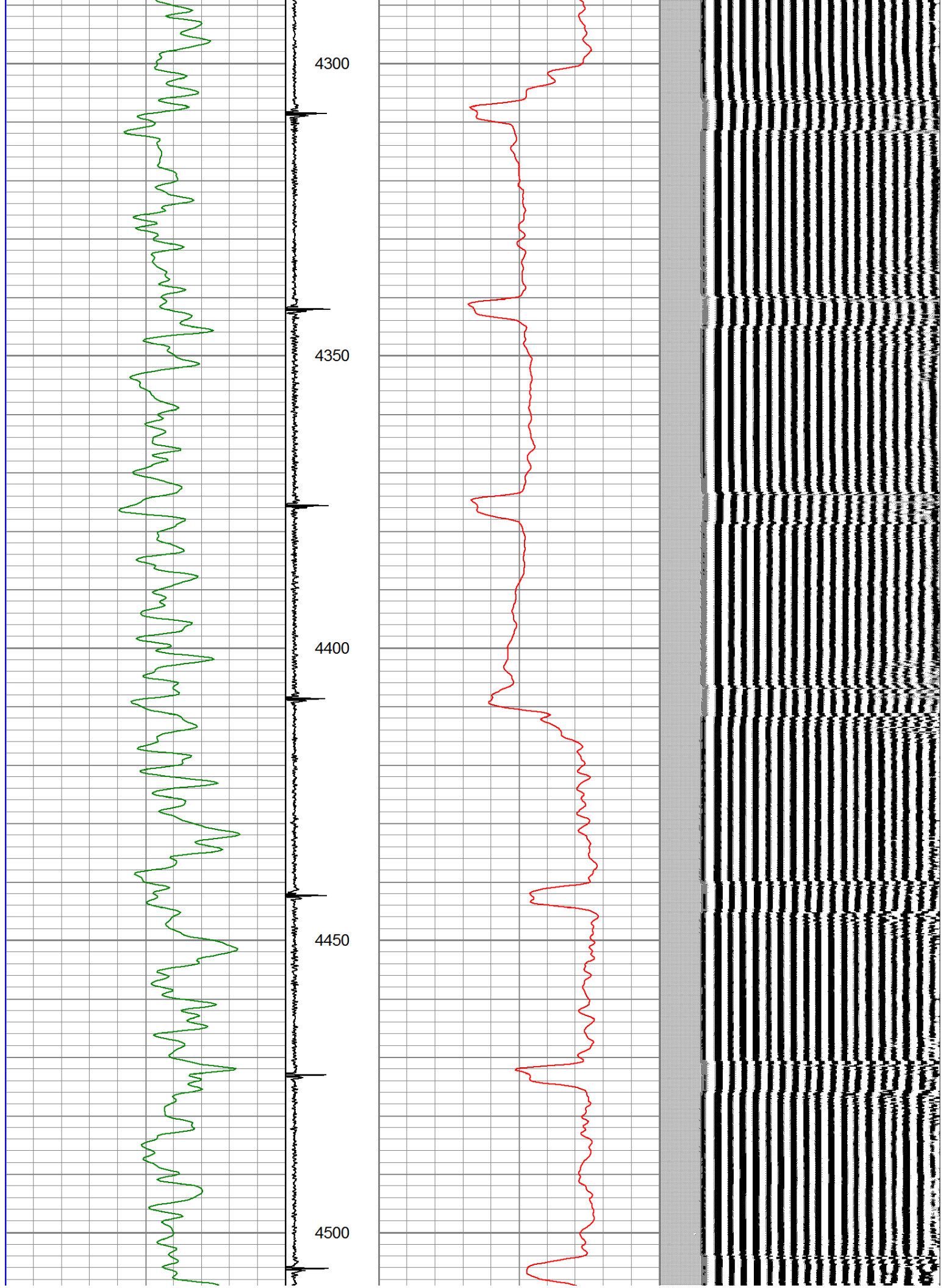




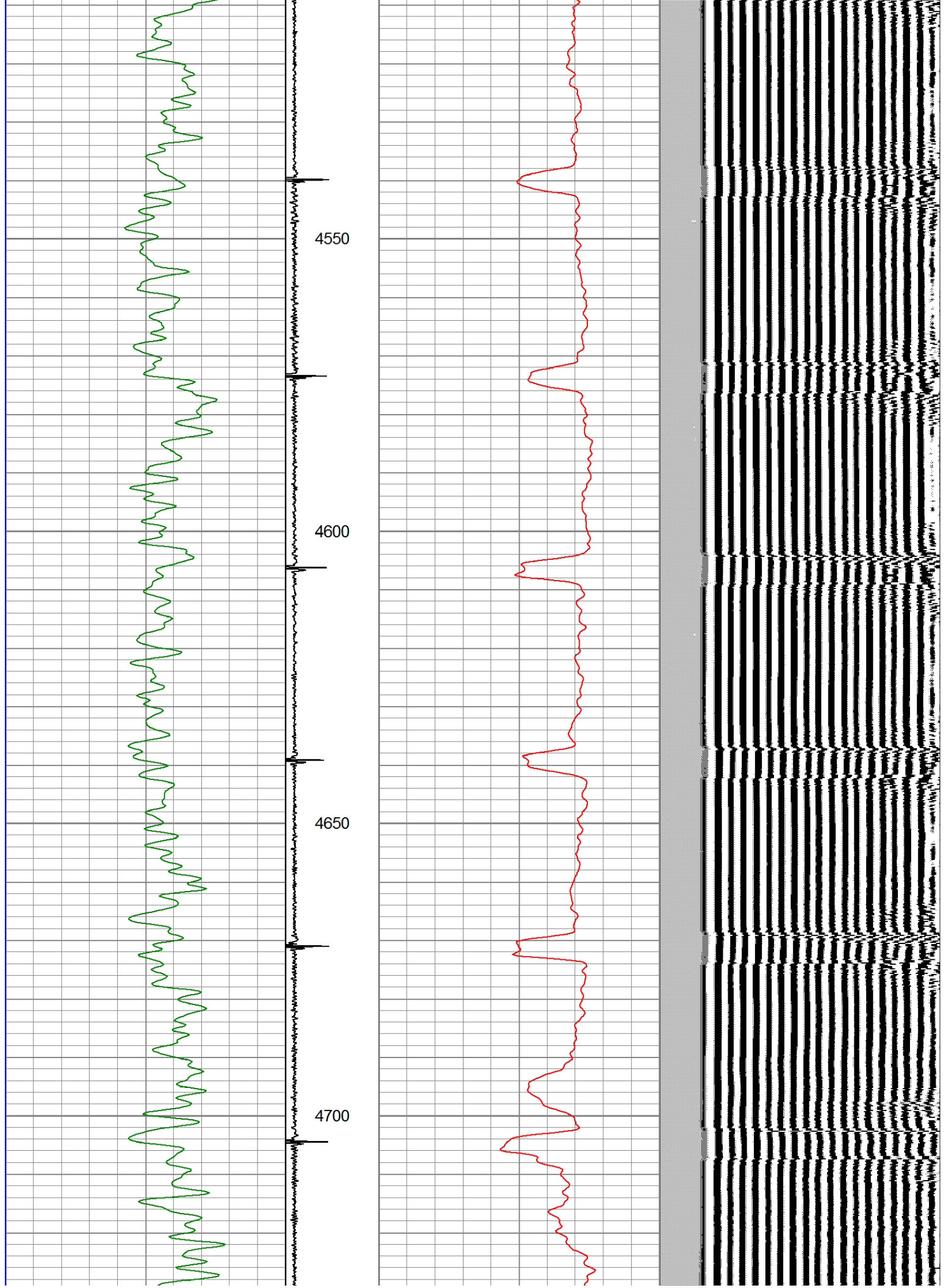


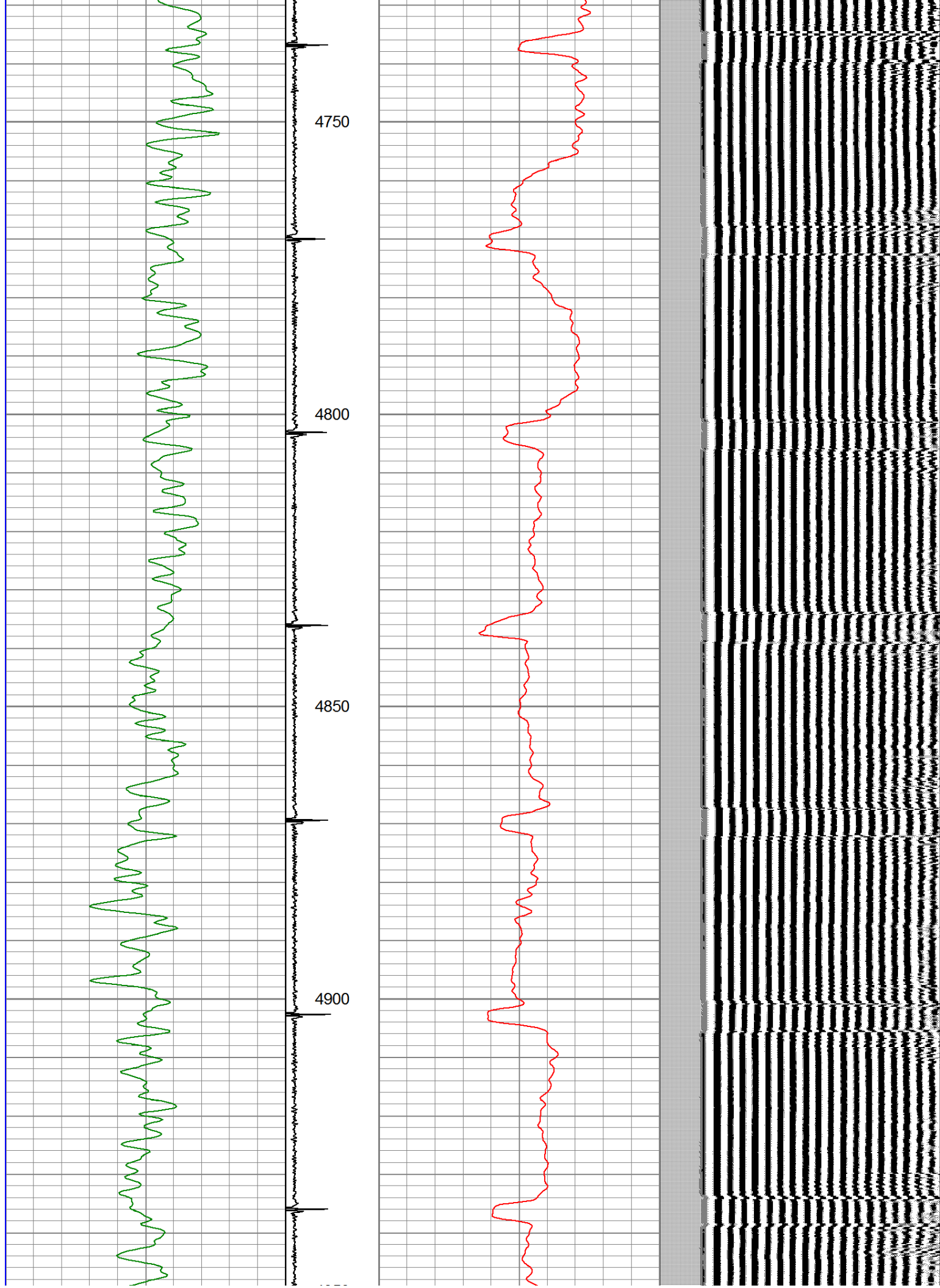


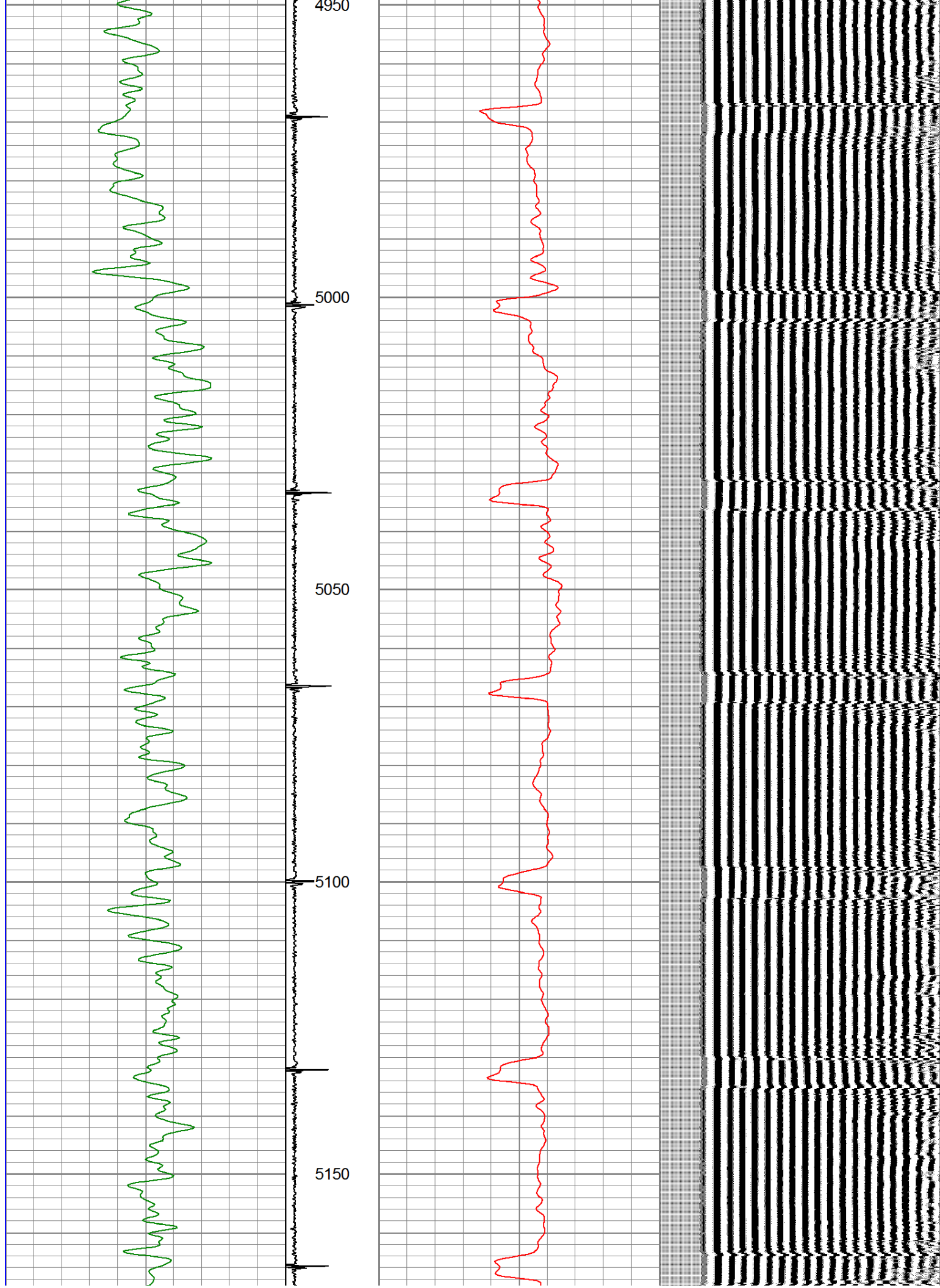




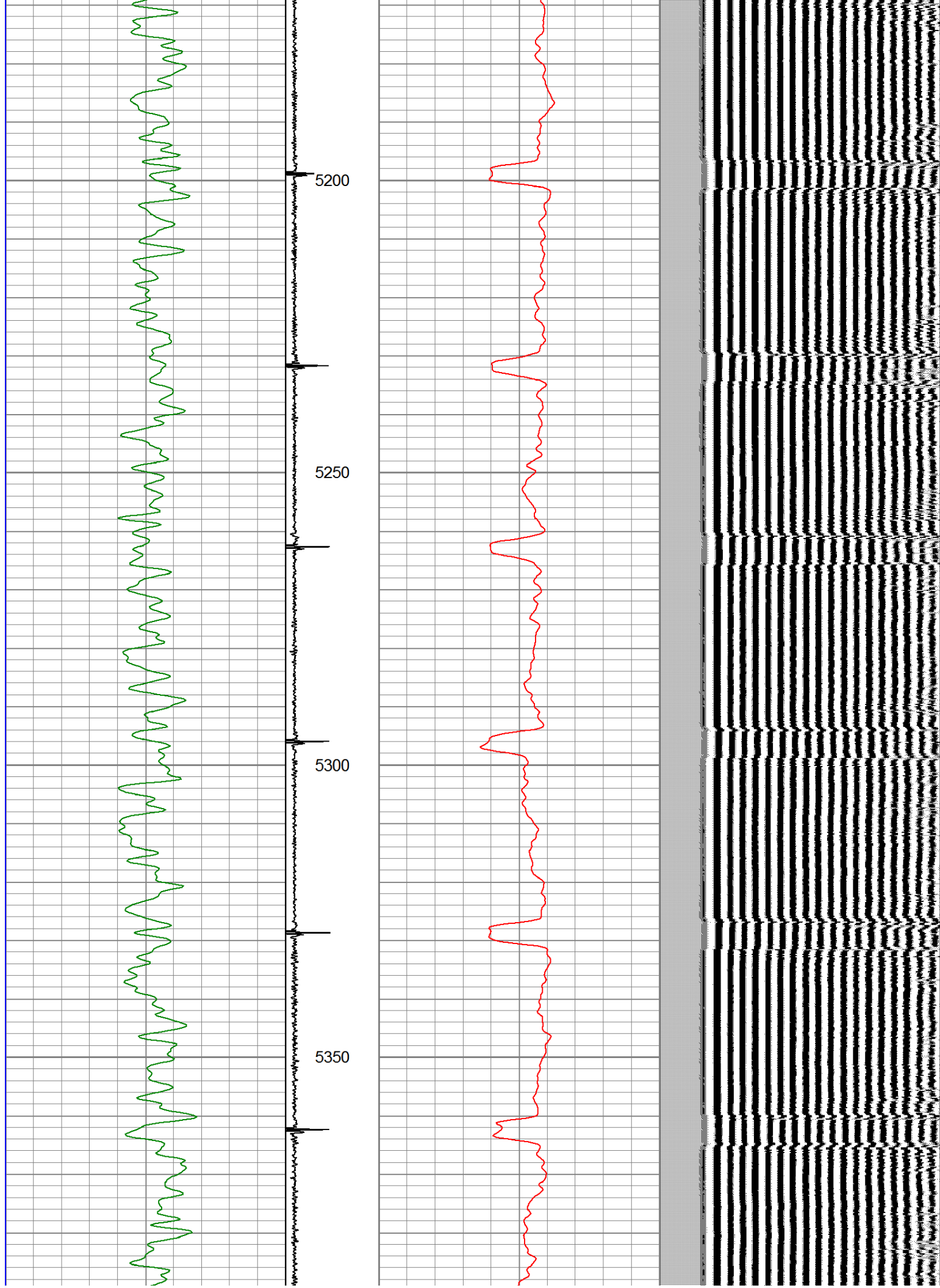


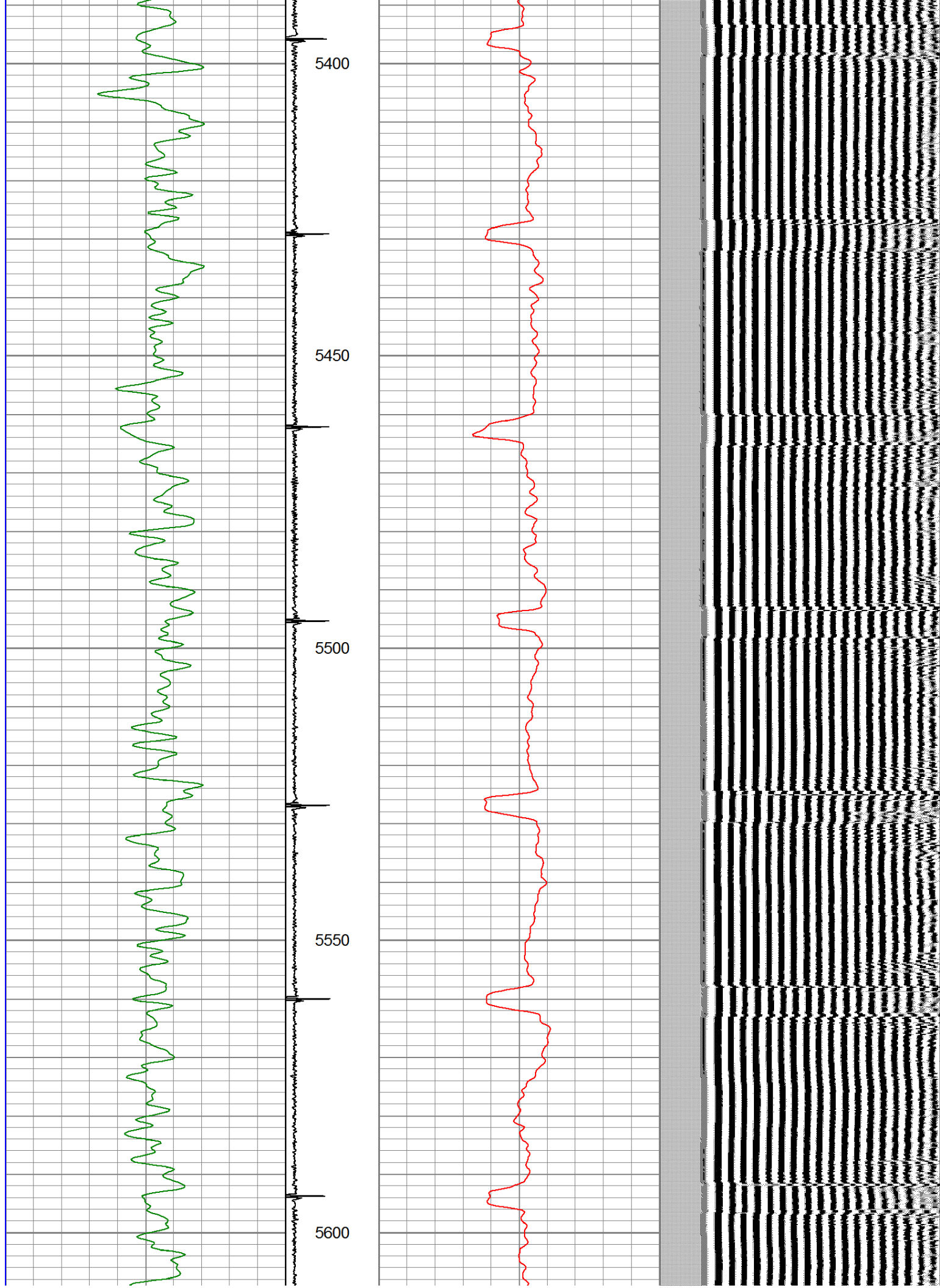


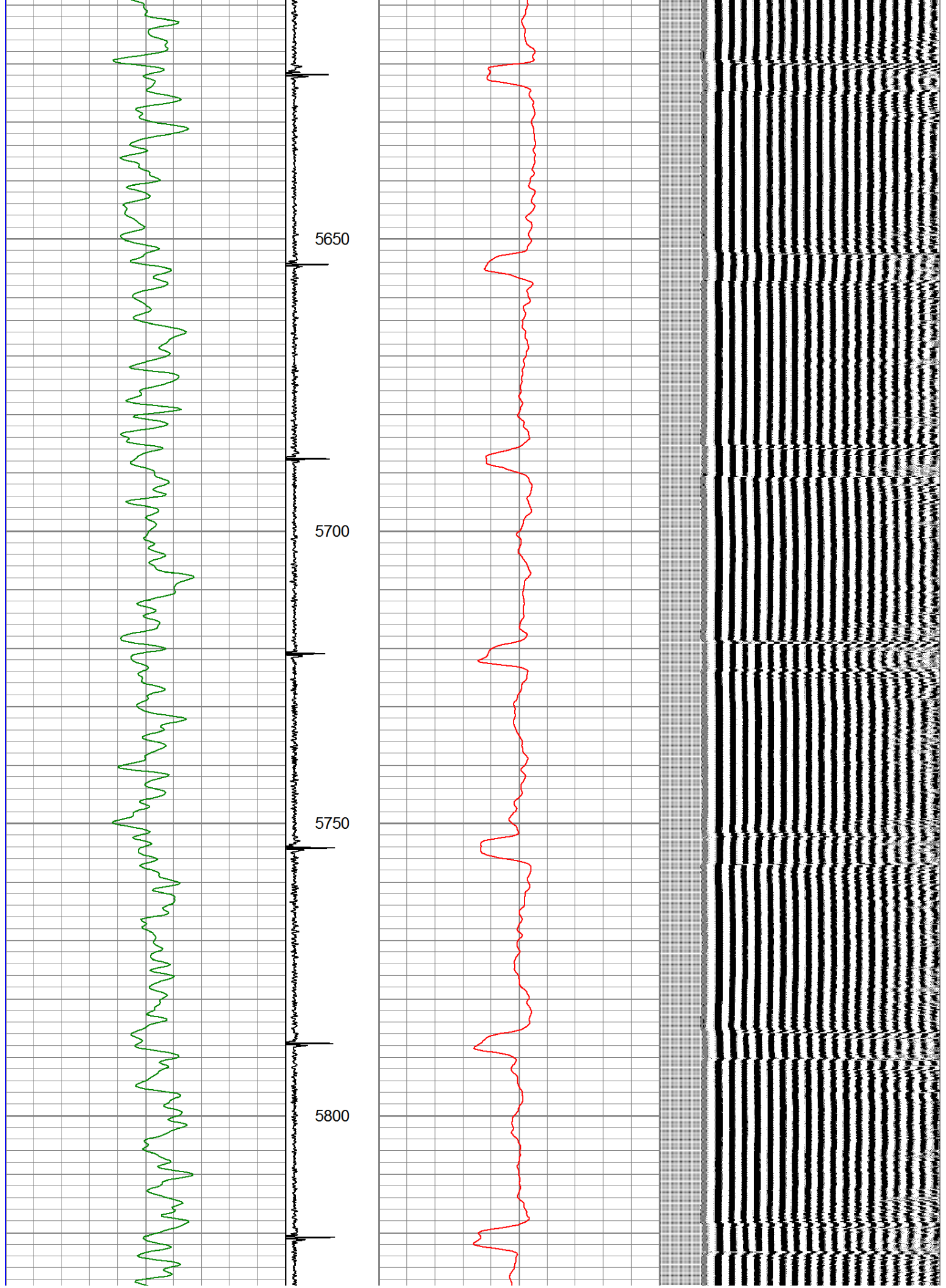




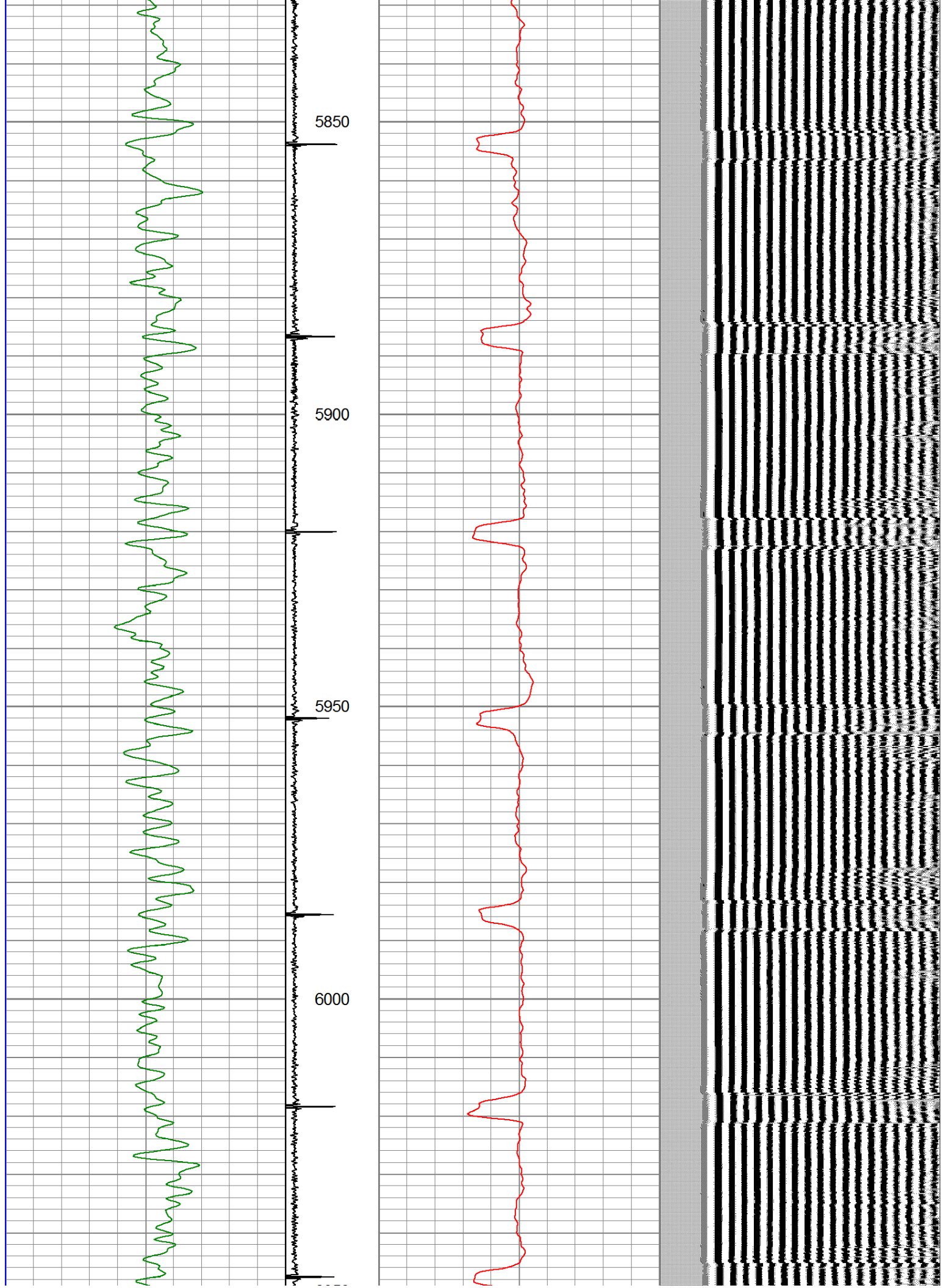


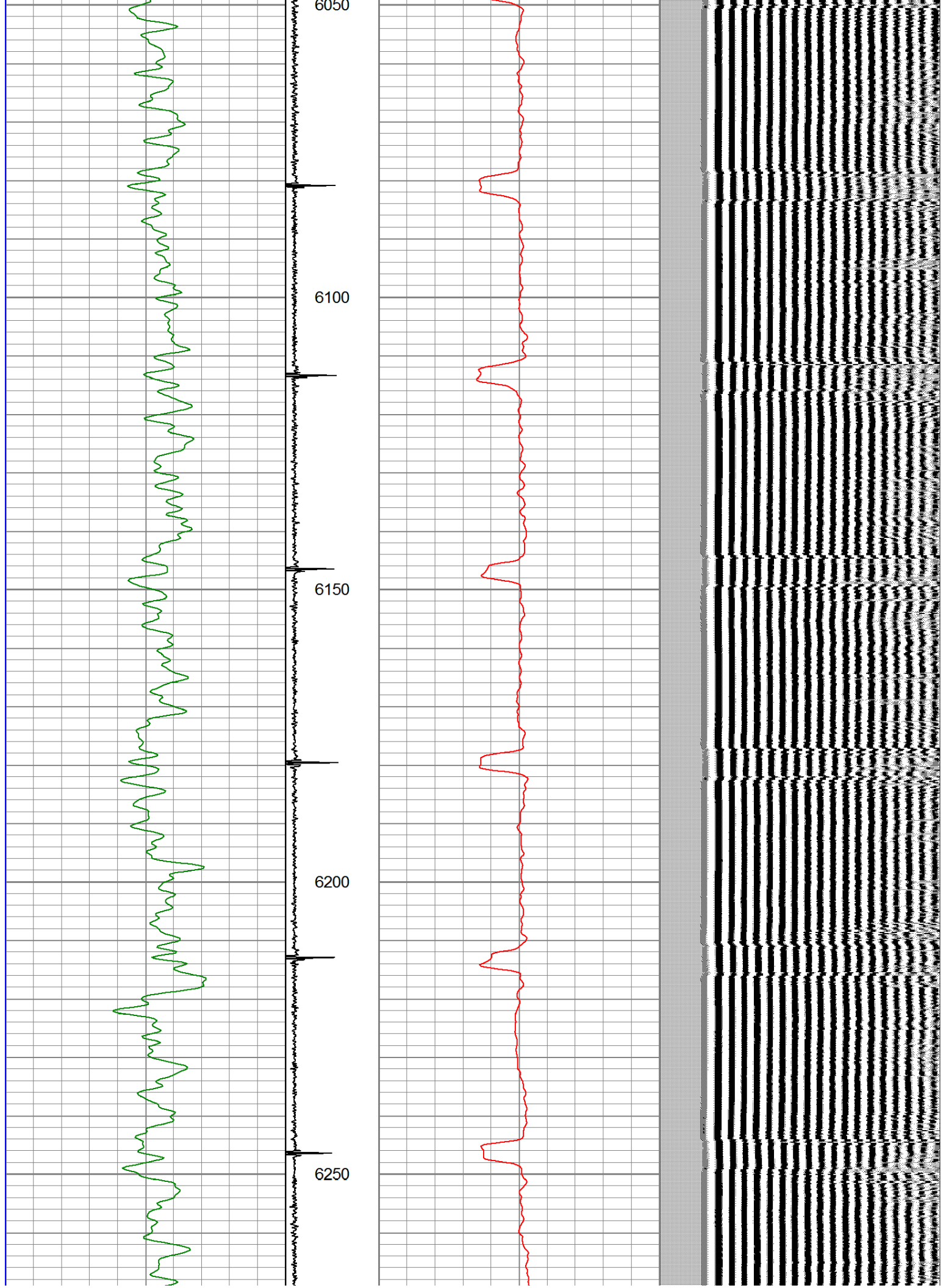


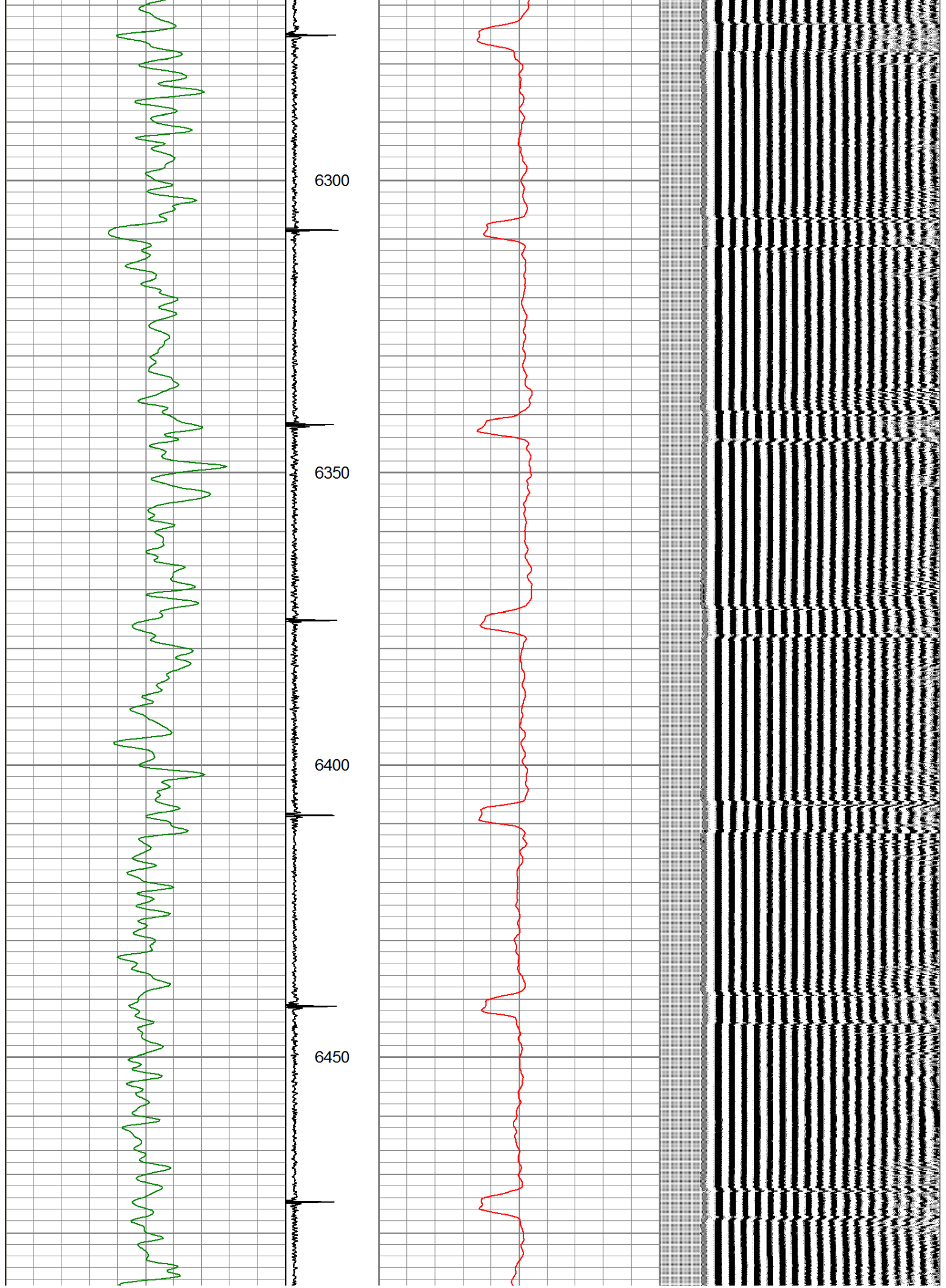




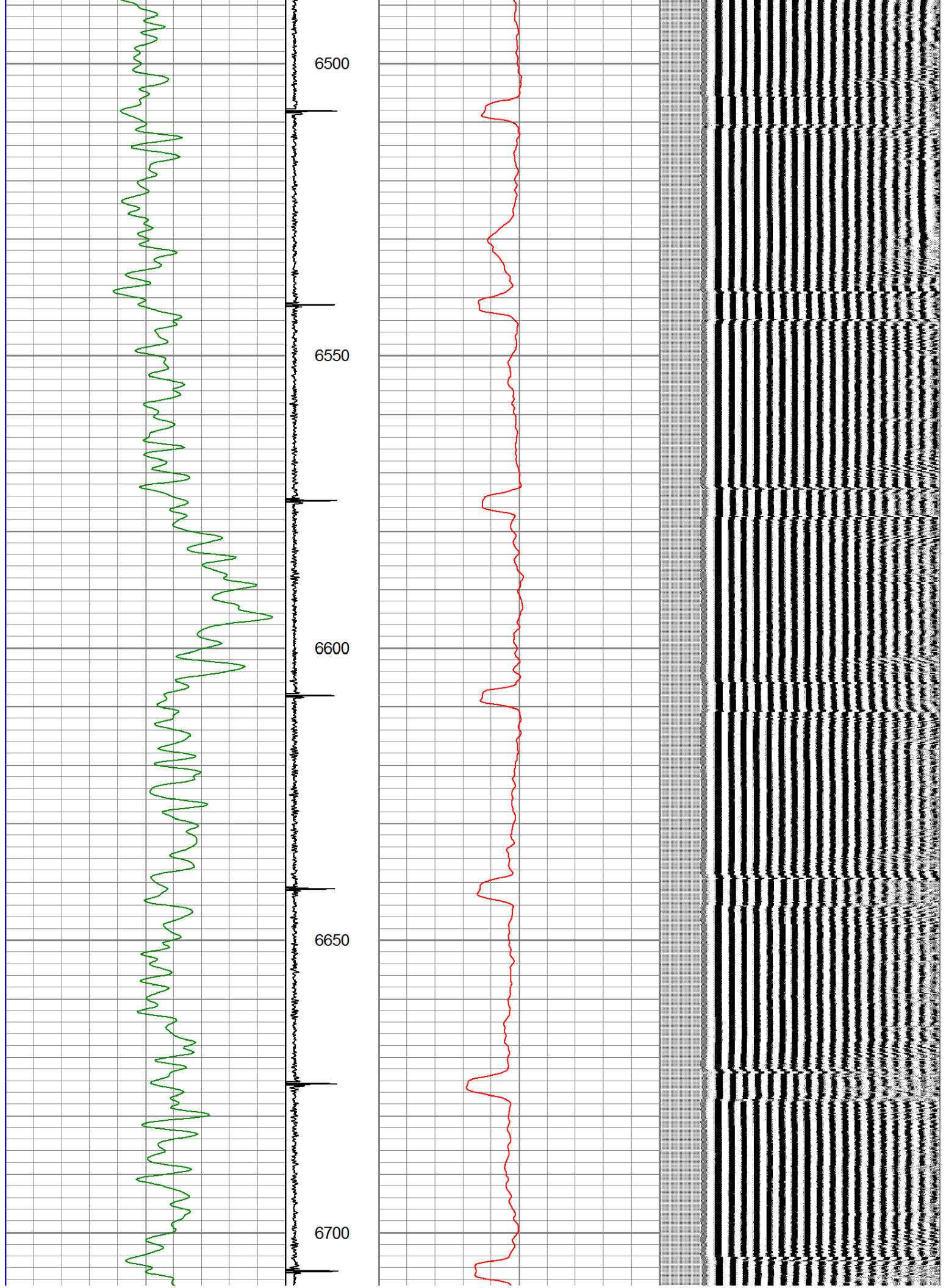


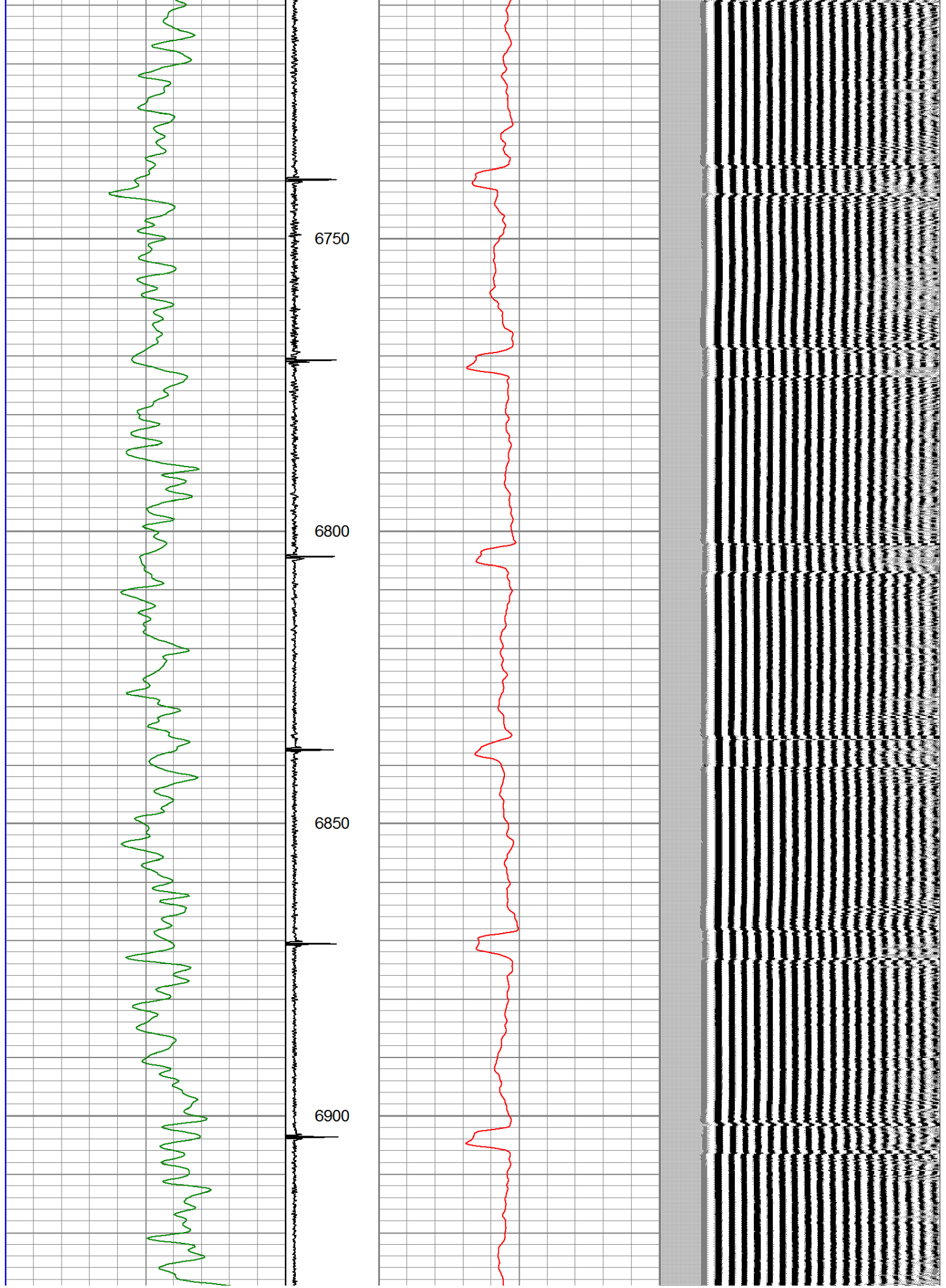




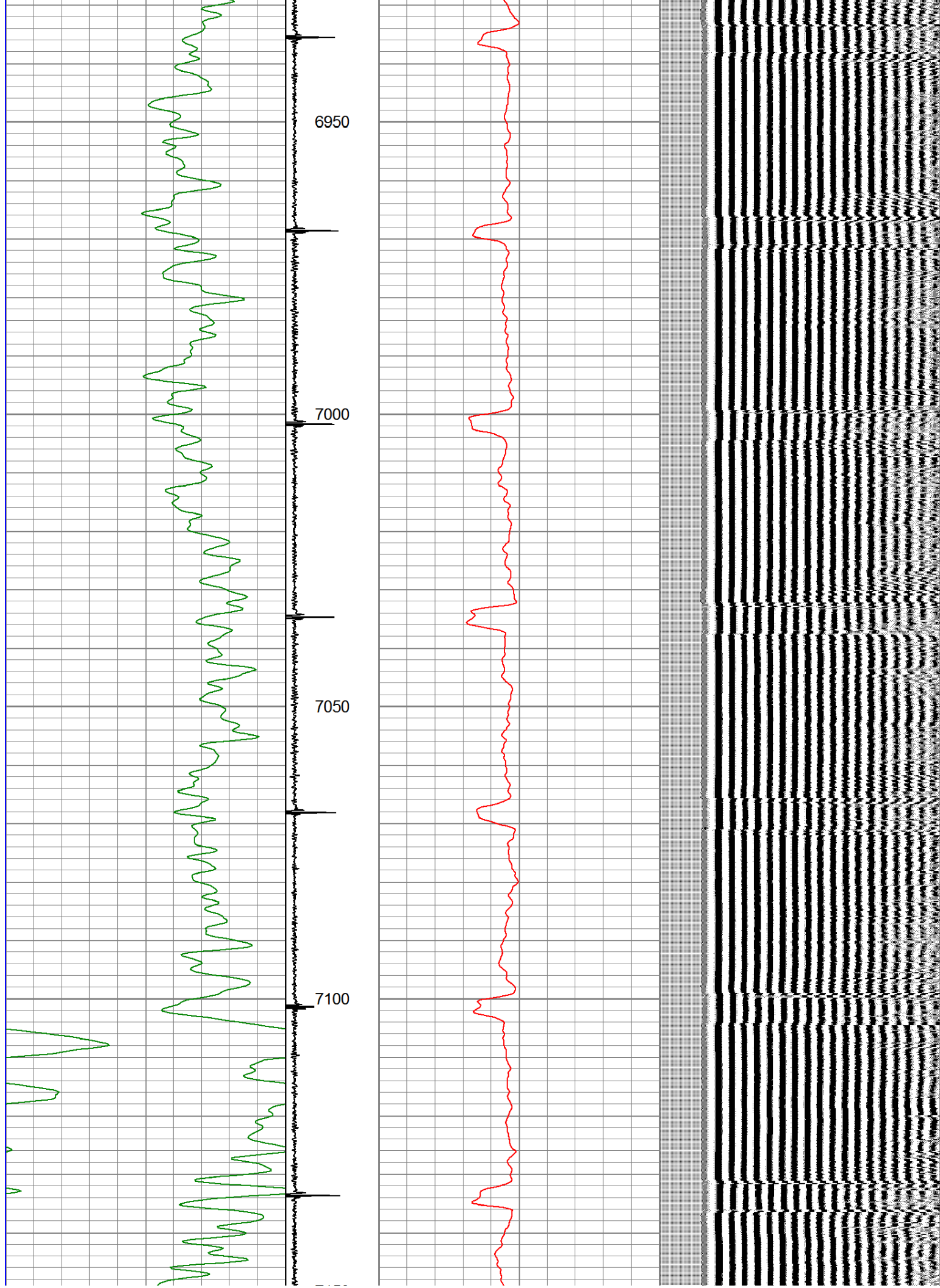




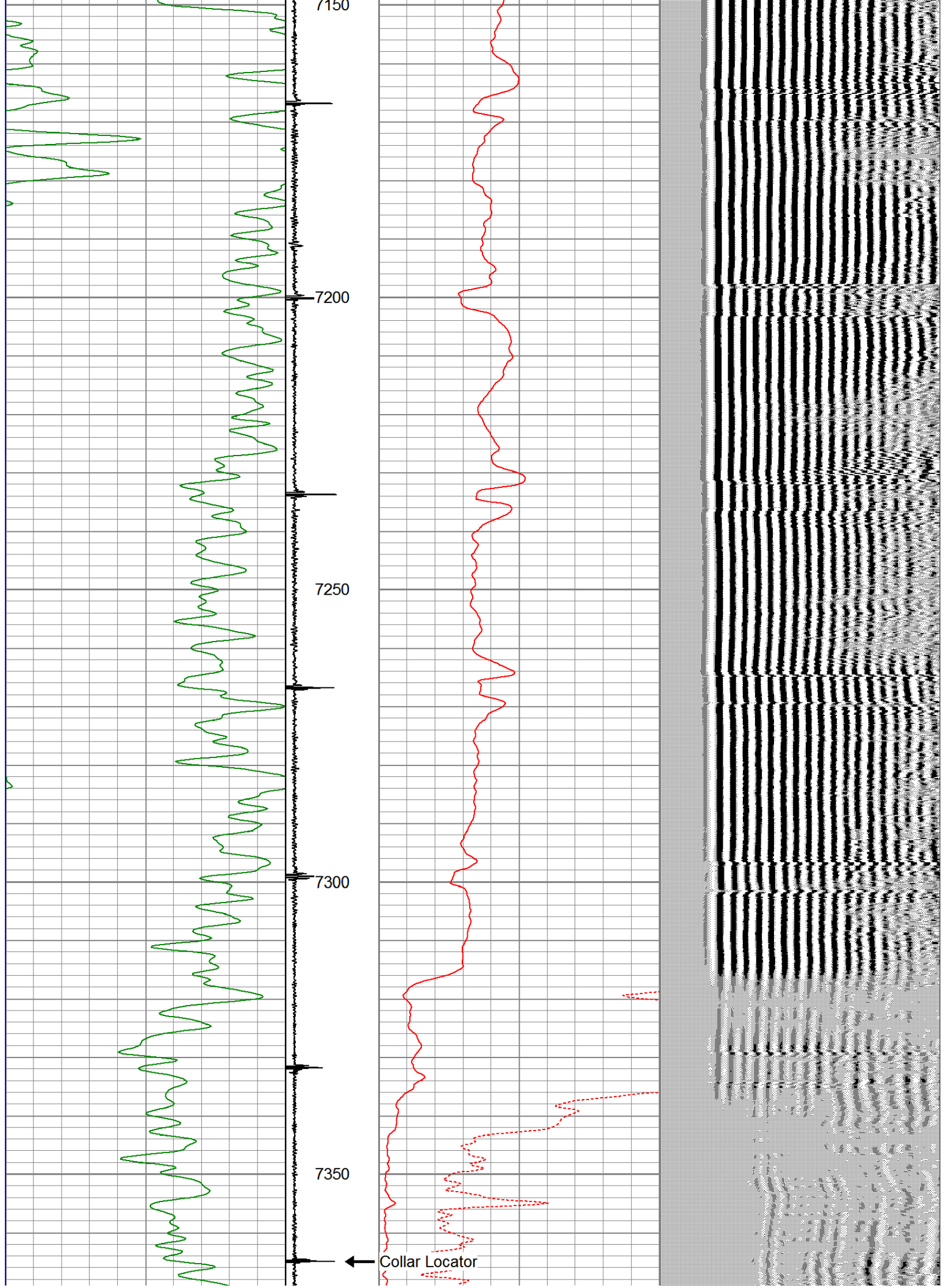


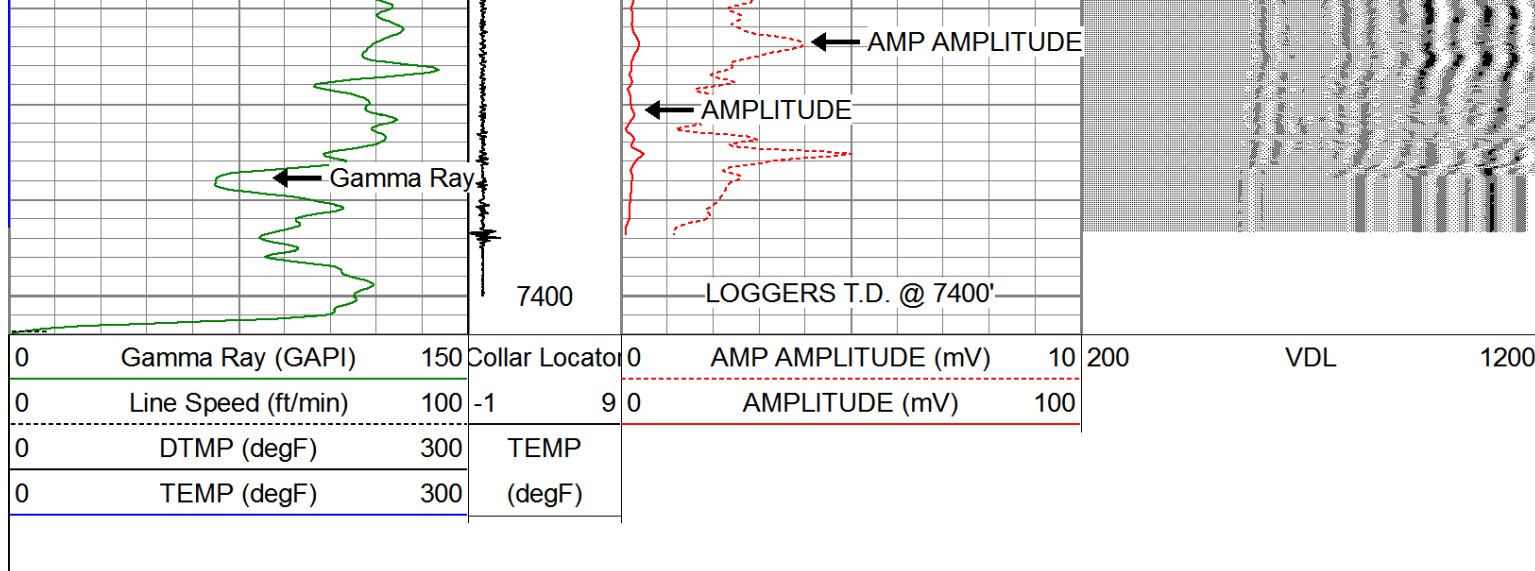










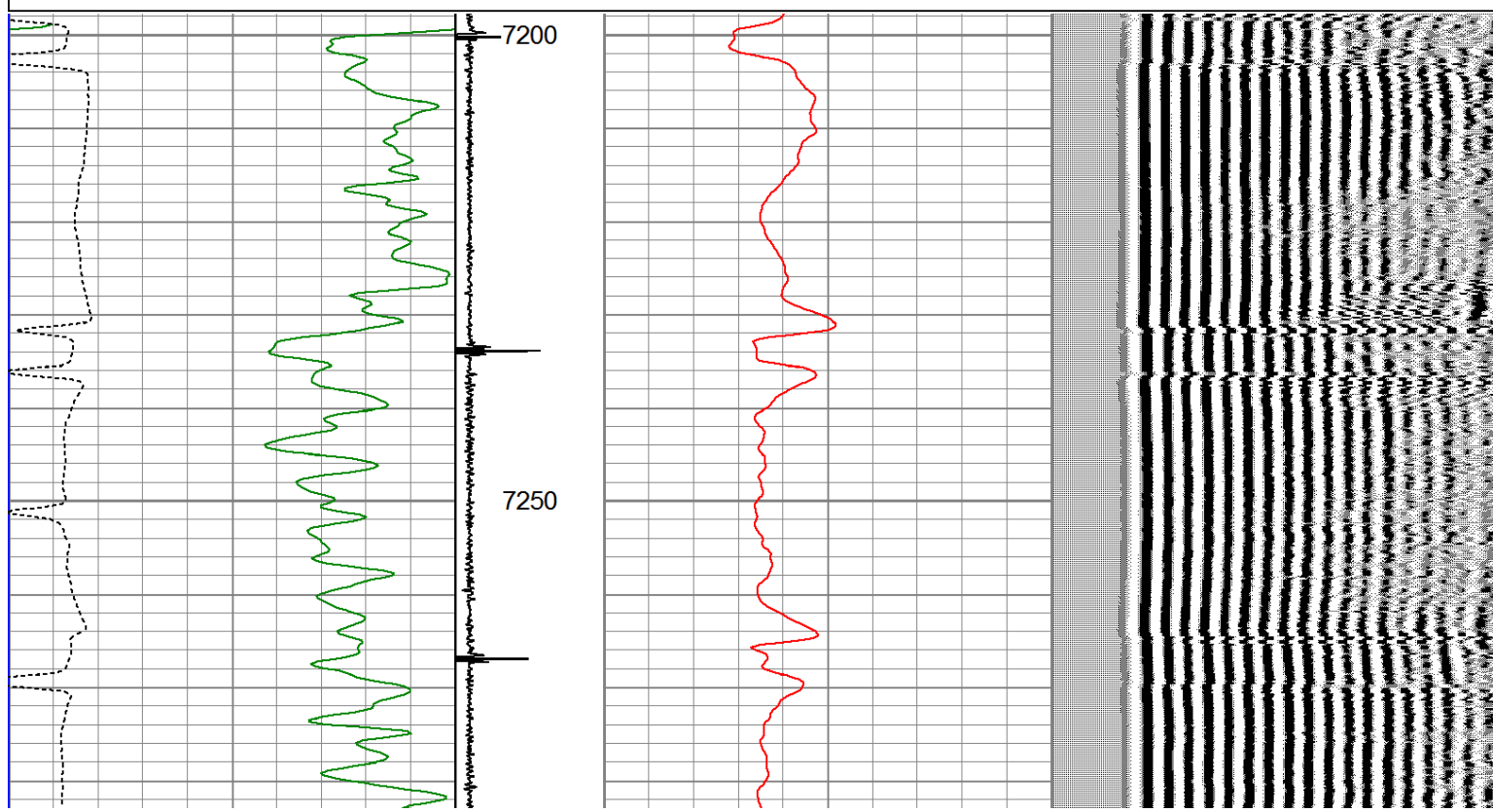


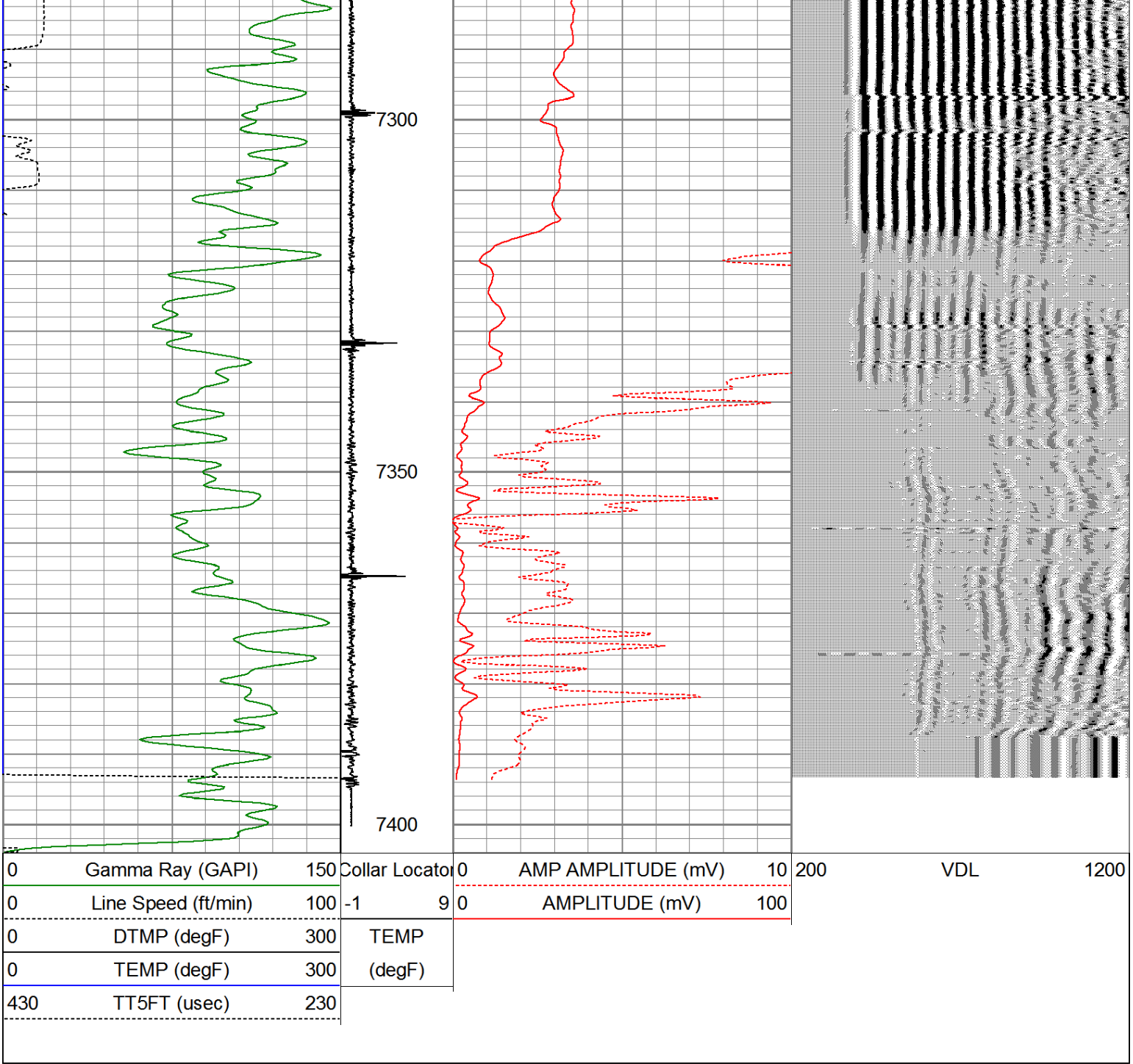
## REPEAT PASS


UPRR 33 PAN AM NAV #1  
05-001-06229

Database File: uprr\_33\_pan\_am\_nav\_#1.db  
Dataset Pathname: pass1  
Presentation Format: cbl\_drs\_  
Dataset Creation: Thu Aug 09 10:30:02 2018 by Log Std Casedhole 10081  
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	Collar Location	0	AMP AMPLITUDE (mV)	10	200	VDL	1200
0	Line Speed (ft/min)	100	-1	9	0	AMPLITUDE (mV)	100		
0	DTMP (degF)	300	TEMP						
0	TEMP (degF)	300	(degF)						
430	TT5FT (usec)	230							





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	3.00
			PT16875 1 11/16 Centralizer	2.92	1.69	5.00



	Depth	Temperature	Wellhead	Surface Pressure	Flow Rate	Surge Pressure
TEMP	12.50					
IntTemp	11.85					
WVF3FT	11.83					
WVFCAL	11.83					
WVFS1	11.83					
WVFS2	11.83					
WVFS3	11.83					
WVFS4	11.83					
WVFS5	11.83					
WVFS6	11.83					
WVFS7	11.83					
WVFS8	11.83					
WVF5FT	10.75					
			RBT-PTS275HT (275HT) Probe 2.75" High Temp Radii	9.17	2.75	
			PT16875 1 11/16 Centralizer	2.92	1.69	5.00
CCL	3.64					
			GR-Probe (080325) Probe 2.75" 4 Channel Pulse	4.58	2.75	30.00
GR	0.90					

Dataset: uprr\_33\_pan\_am\_nav\_#1.db: field/well/run1/pass1

Total Length: 20.58 ft

Total Weight: 43.00 lb

O.D.: 2.75 in