



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH072161	Company Well Field County	WPX ENERGY GOLDSBOROUGH PA 411-11 PARACHUTE GARFIELD	State COLORADO
API No: 05045218280000			
11 7S 9SW PA 22-11 CYCLONE 17	Location SHL: 2402' FNL & 2052' FWL SEC:11 BHL: 790' FNL & 553' FWL SEC:11 SEC 11 TWP 7S RGE 9SW	Other Services N/A	
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 6274 ft K.B. _____ 21 ft KELLY BUSHING _____	Elevations KB 6295 ft DF GL 6274 ft	

Date	22/MAY/13	
Run	ONE	
Service Order	575085	
Depth Driller	6180 ft	
Depth Logger	6140 ft	
Bottom Logged Interval	6130 ft	
Top Logged Interval	21 ft	
Time Started	15:30	
Time Finished	18:30	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	63 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	226 degF	
Reference Log	BAKER HUGHES HDIL LOG	
Reference Log Date	14/MAY/15	
Equipment No.	4271	GRAND JUNCTION
Recorded By	M. KINSEL	9721
Witnessed By	MR. DUSTIN WELSH	GRAND JUNCTION

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Borehole Record		
Bit Size	From	To
13.5 In	0 ft	1130 ft
8.75 In	0 ft	8187 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	N/A	N/A	0 ft	1085 ft
4.5 In	11.6 lbm/ft	1-80	0 ft	8180 ft

Remarks
ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH A BAKER HUGHES HDIL LOG DATED 14 MAY 2013 AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 6 FEET DOWN. DEPTH SHIFTING PROCESS CREATES THE POTENTIAL FOR COLLAR LENGTHS TO VARY FROM OTHER CASED HOLE LOGS WITHOUT A GAMMA RAY REFERENCE. SHORT JOINT: 4656' - 4677' BHT: 226 degF

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10404539	CENTRALIZED
1	1	GAMMA RAY/CCL	1355XA	10580209	CENTRALIZED

MAIN LOG PRIMARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.887	usec	24.937	8154.000
RAL	Amp Gate Start Near	197.374	usec	24.937	8154.000
RAL	Amp Gate Start Radial	198.140	usec	24.937	8154.000
RAL	Amp Gate Width Far	25.000	usec	24.937	8154.000
RAL	Amp Gate Width Near	25.000	usec	24.937	8154.000
RAL	Amp Gate Width Radial	25.000	usec	24.937	8154.000
RAL	casing od	4.500	inches	24.937	8154.000
RAL	casing wt	11.600	lbm/ft	24.937	8154.000
RAL	FB Start Far	291.900	usec	24.937	8154.000
RAL	FB Start Near	175.391	usec	24.937	8154.000
RAL	FB Start Radial	175.391	usec	24.937	8154.000
RAL	FB Thresh Far	10.000	mv	24.937	8154.000
RAL	FB Thresh Near	4.000	mv	24.937	8154.000
RAL	FB Thresh Radial	4.000	mv	24.937	8154.000
RAL	Fluid Travel Time	200.000	usec/ft	24.937	8153.812

SERIES	DEPTH	OFFSET	ACQUIRED CURVES					
1426XA	-11.000		ACAL	ANR	AR1	AR2	AR3	AR4
			AR5	AR6	AR7	AR8	CHV	FPR2
			FPR3	FPR5	TT3	TTR1	TTR2	TTR3
			TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040		AFAR	SIG	TT5			
1355XA	-5.620		CCL					
1355XA	-1.500		GR					
1355XA	0.000		TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

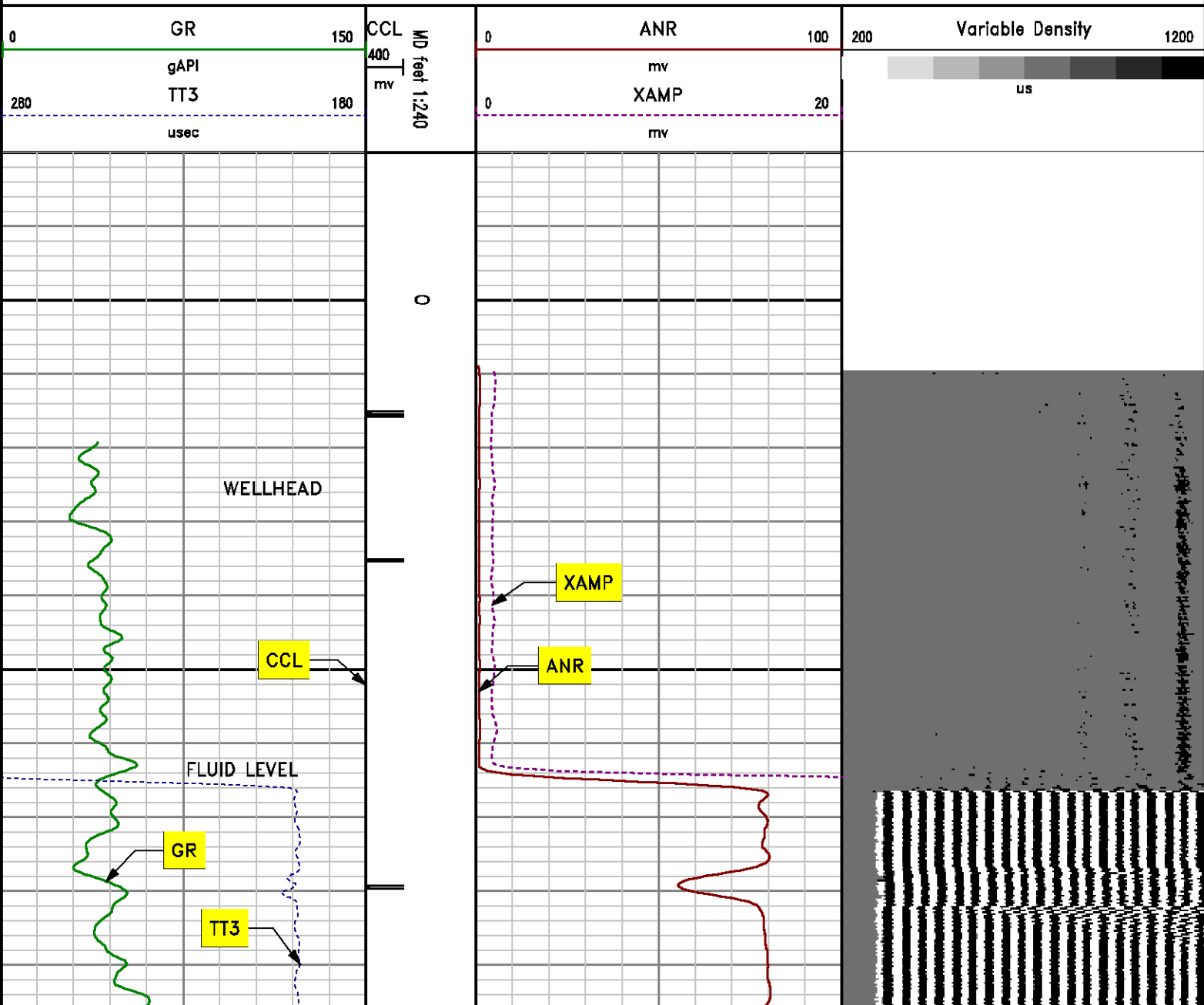
Well : GOLDSBOROUGH PA 411-11

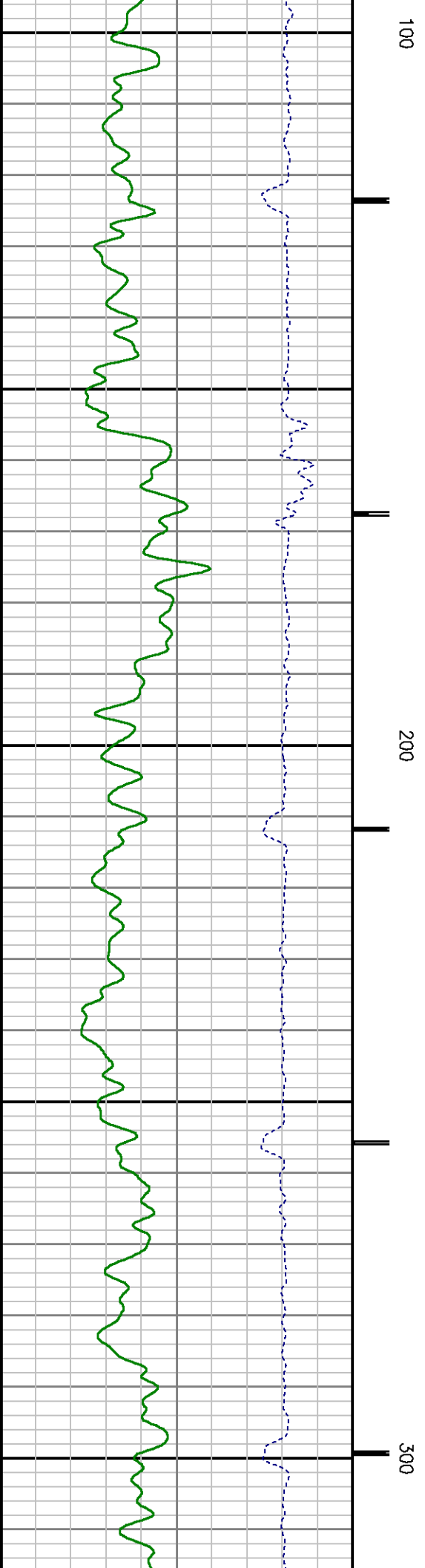
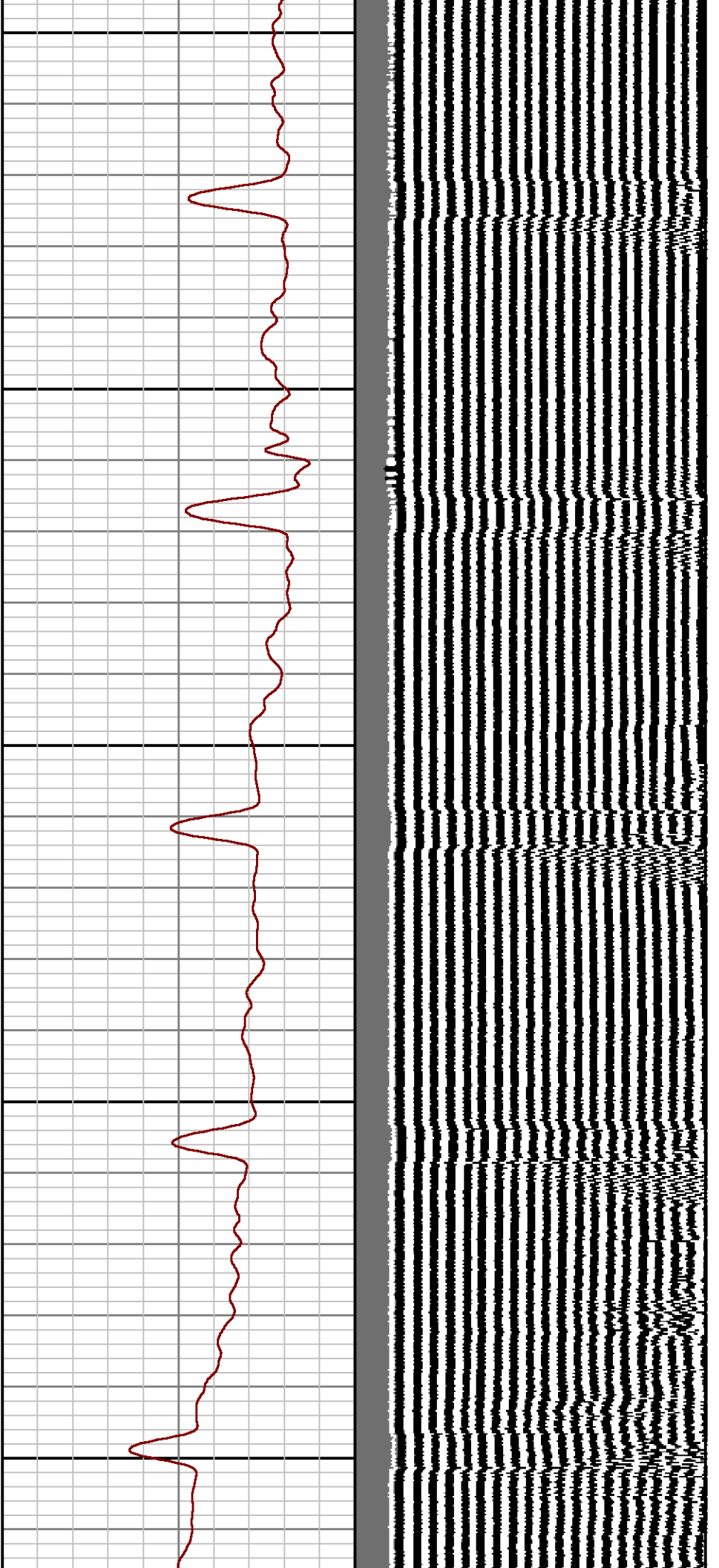
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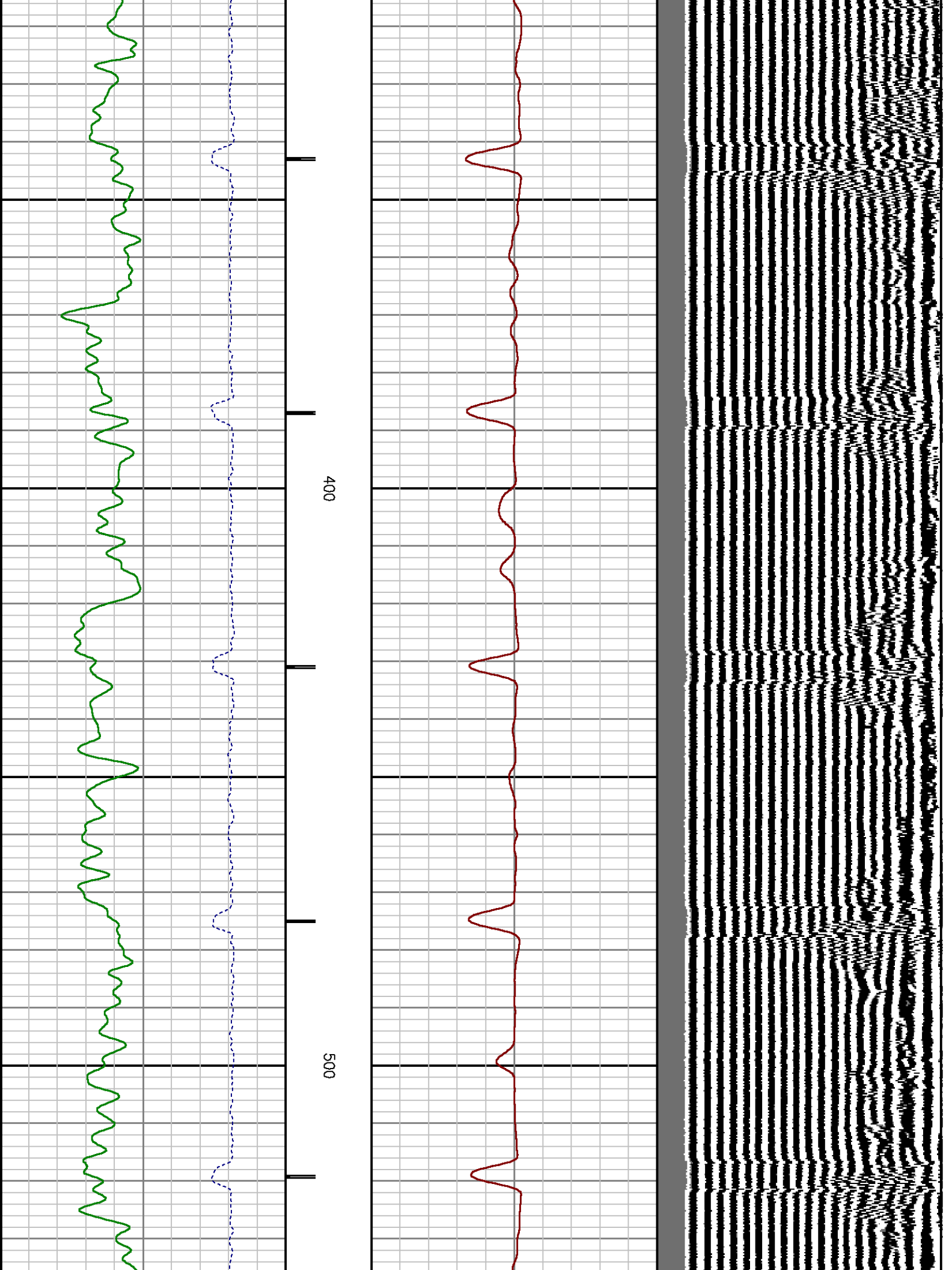
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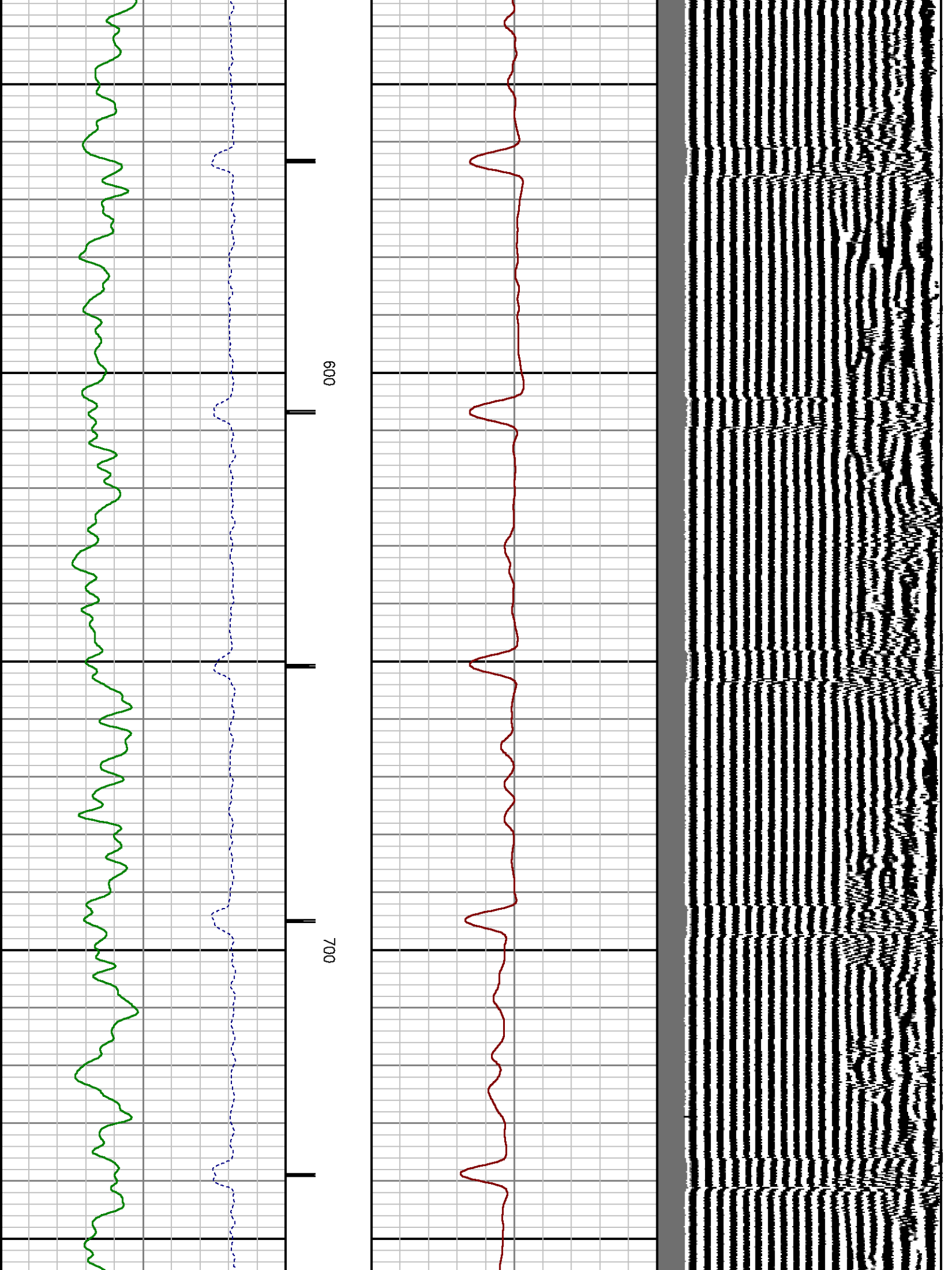
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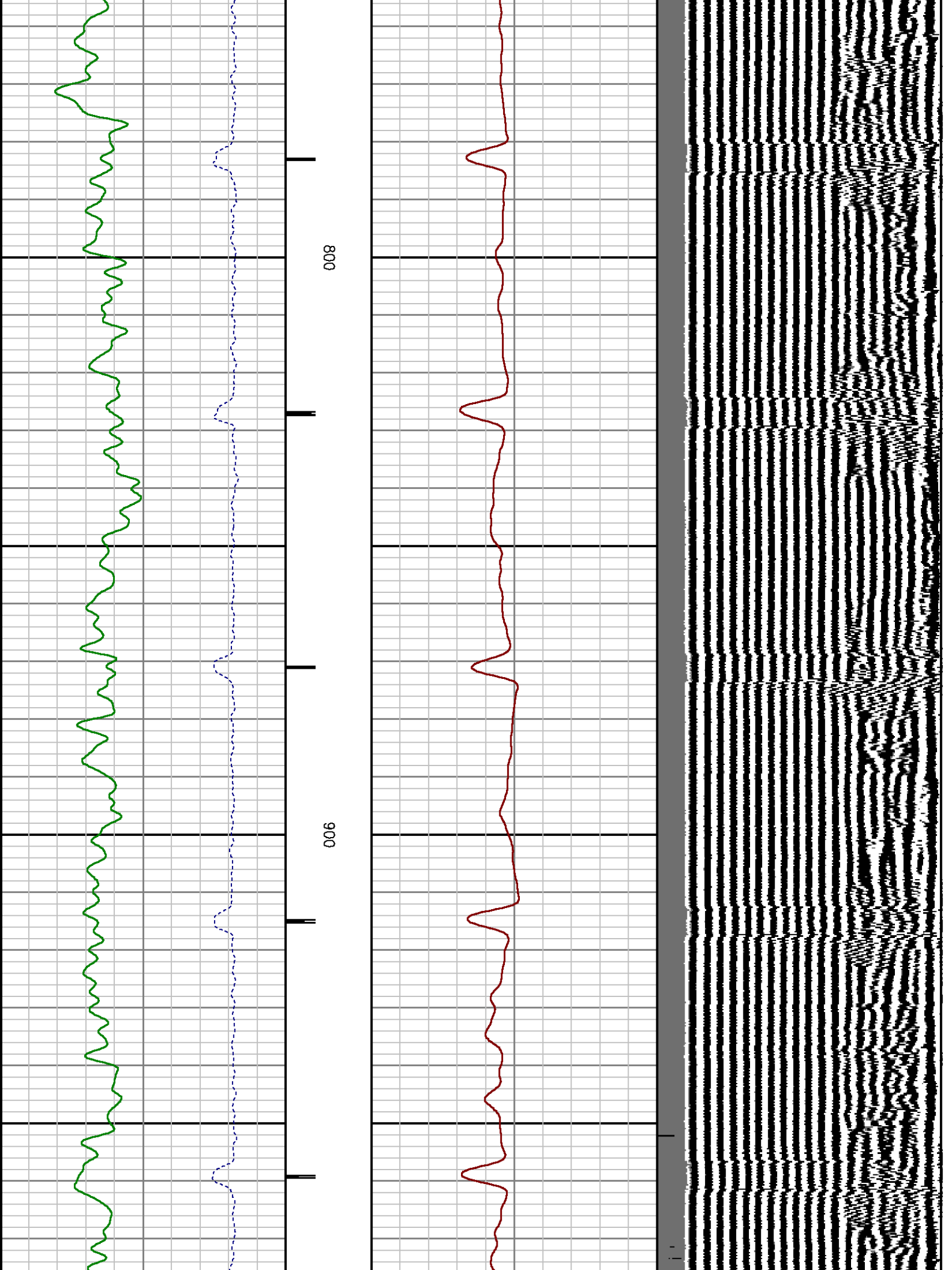
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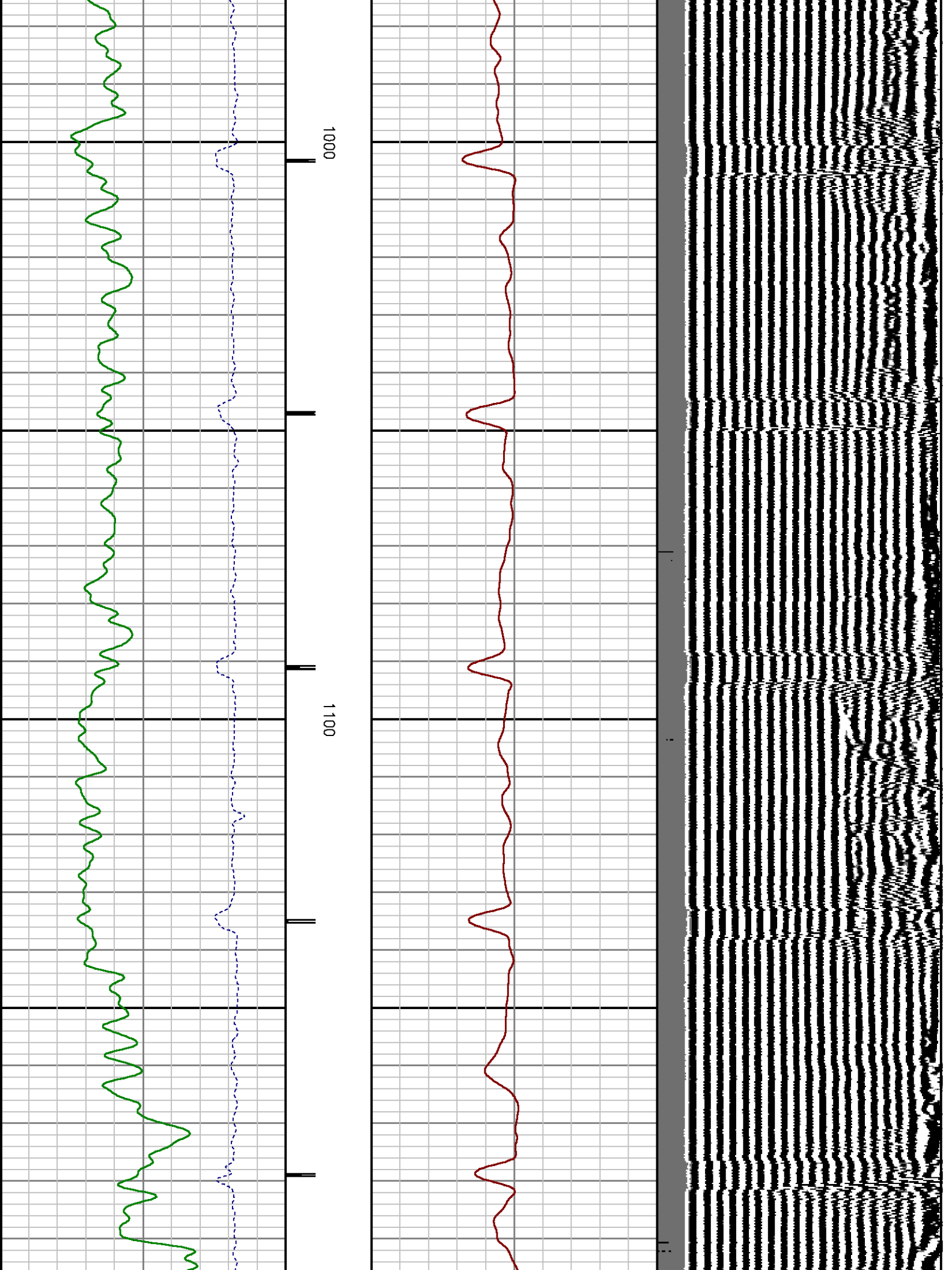


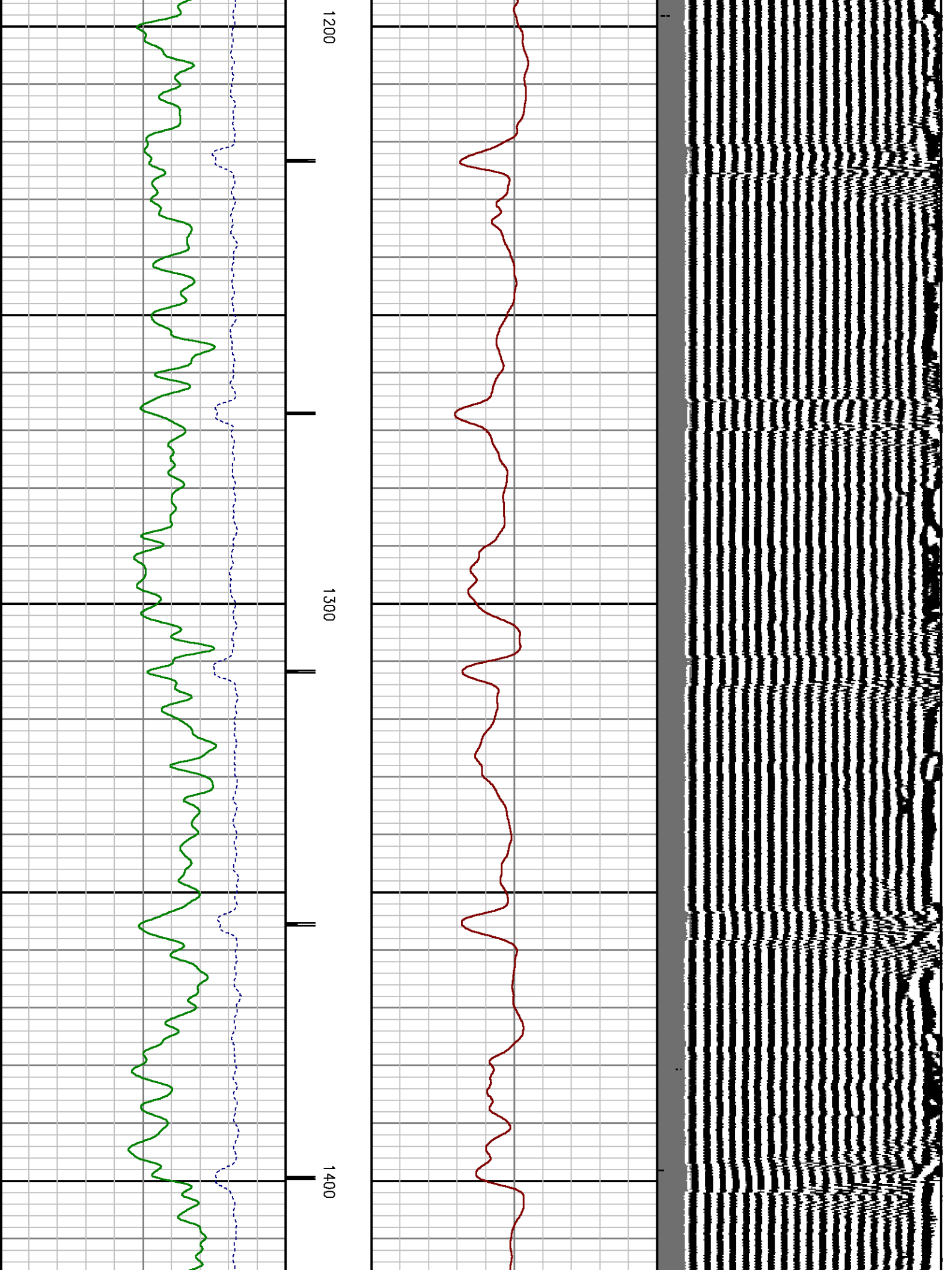


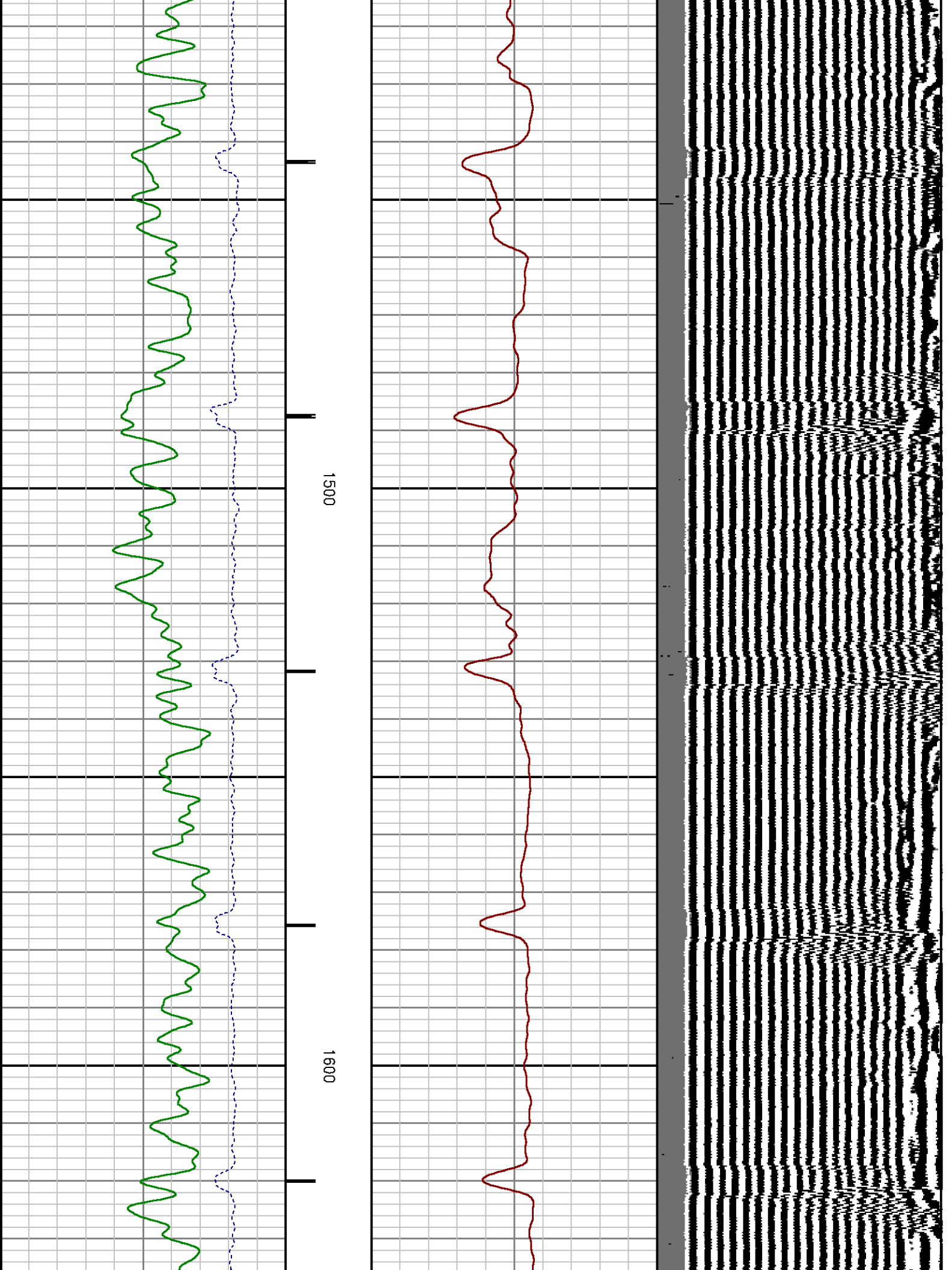


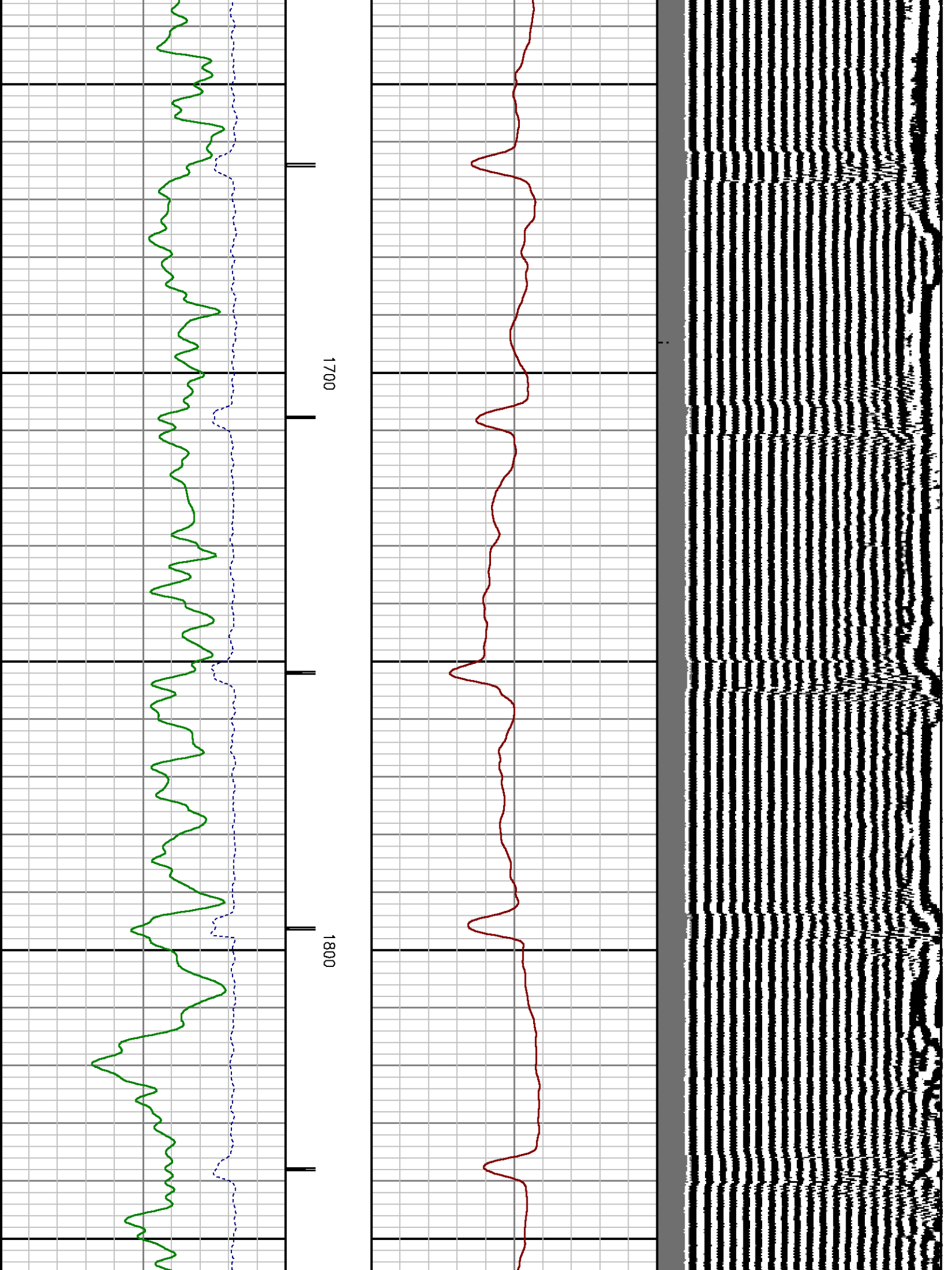


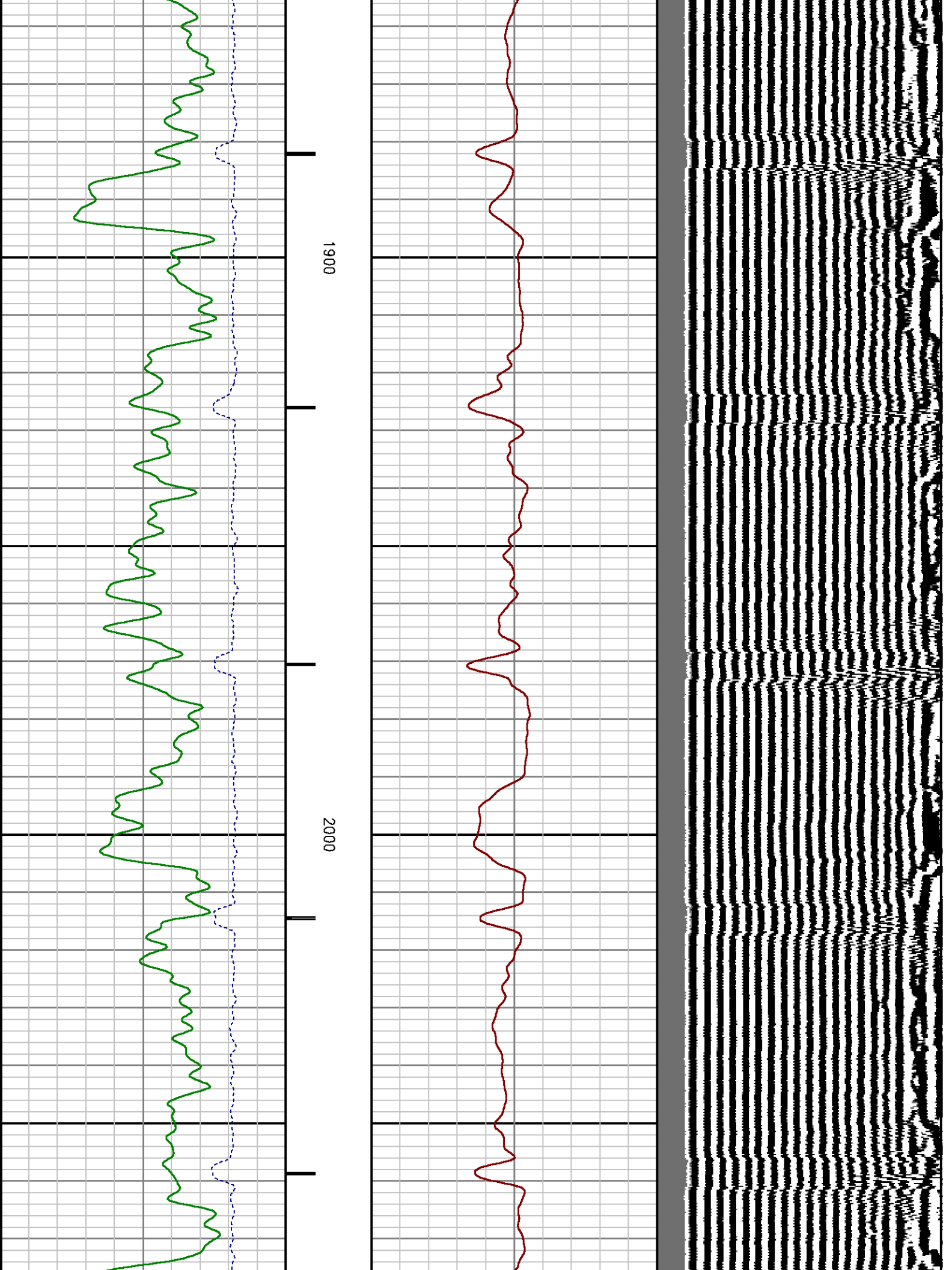


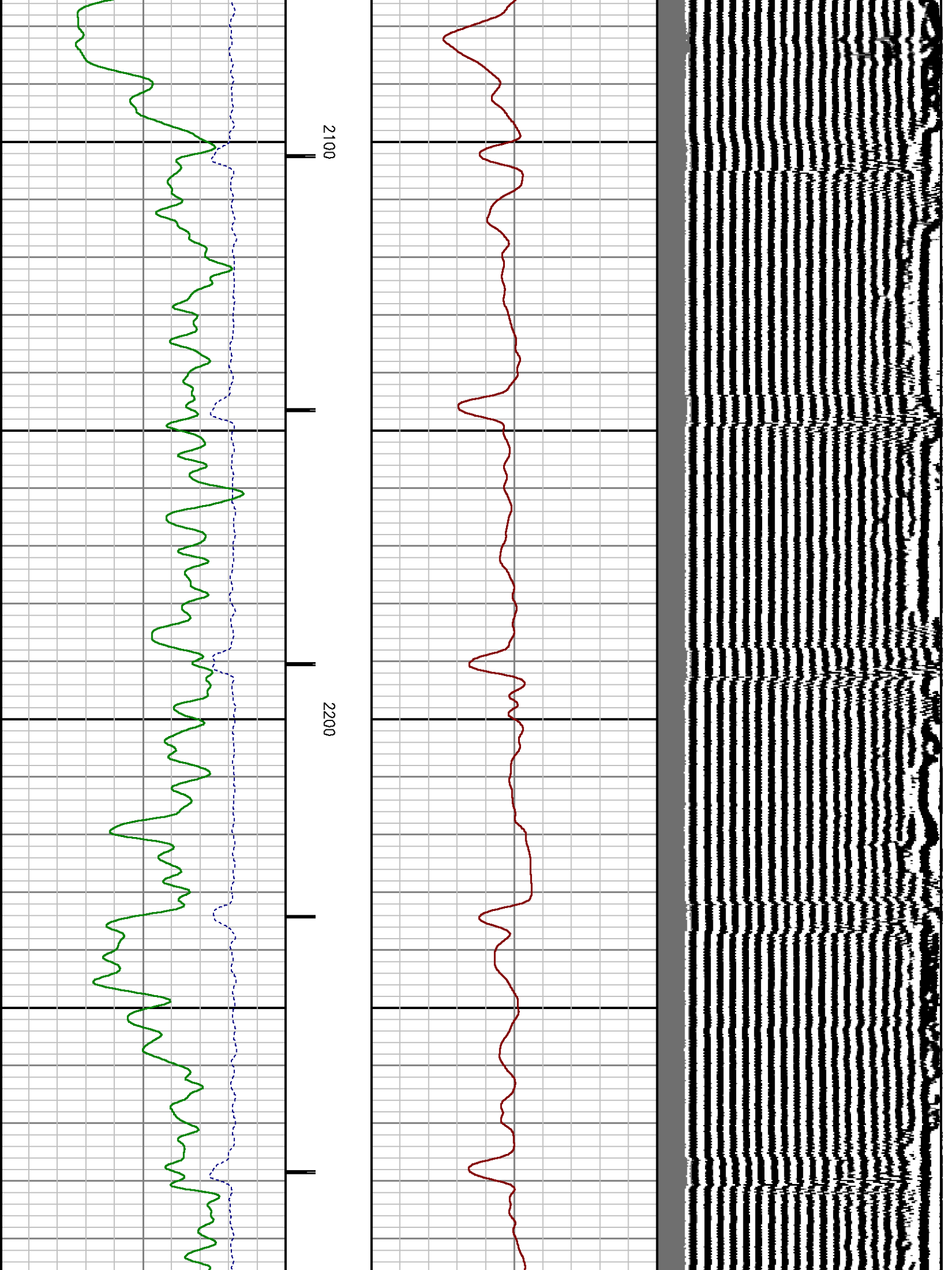


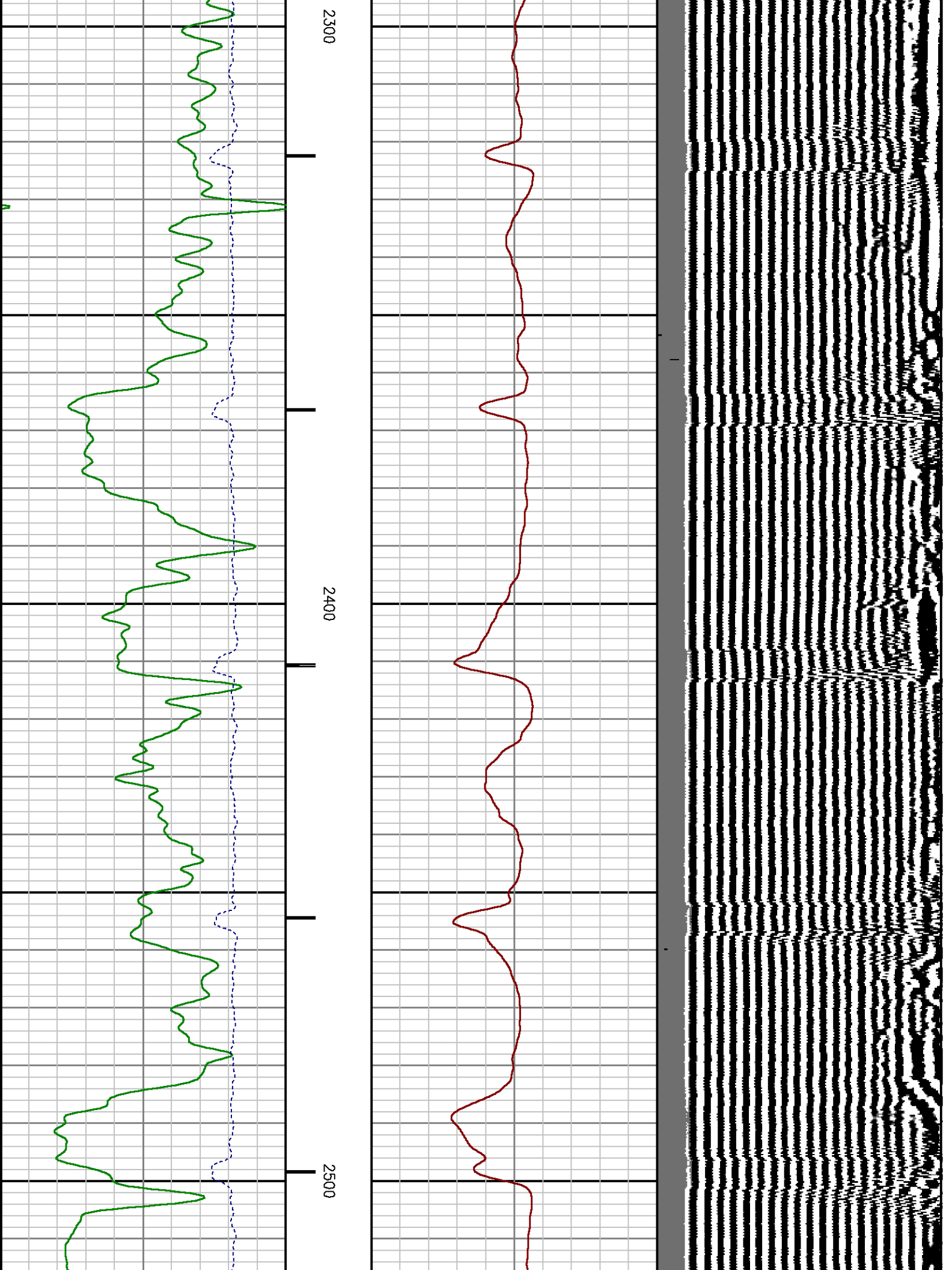


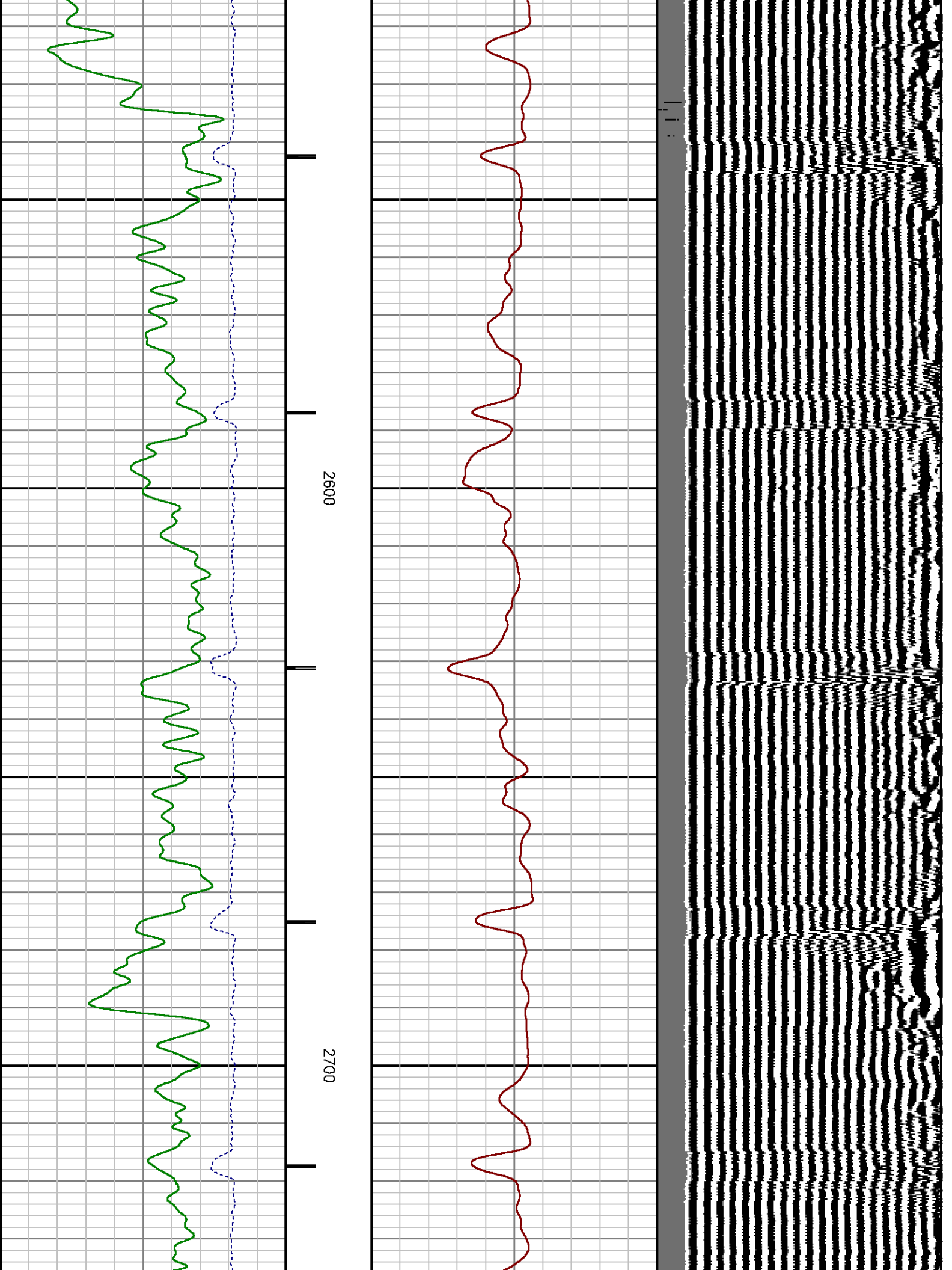


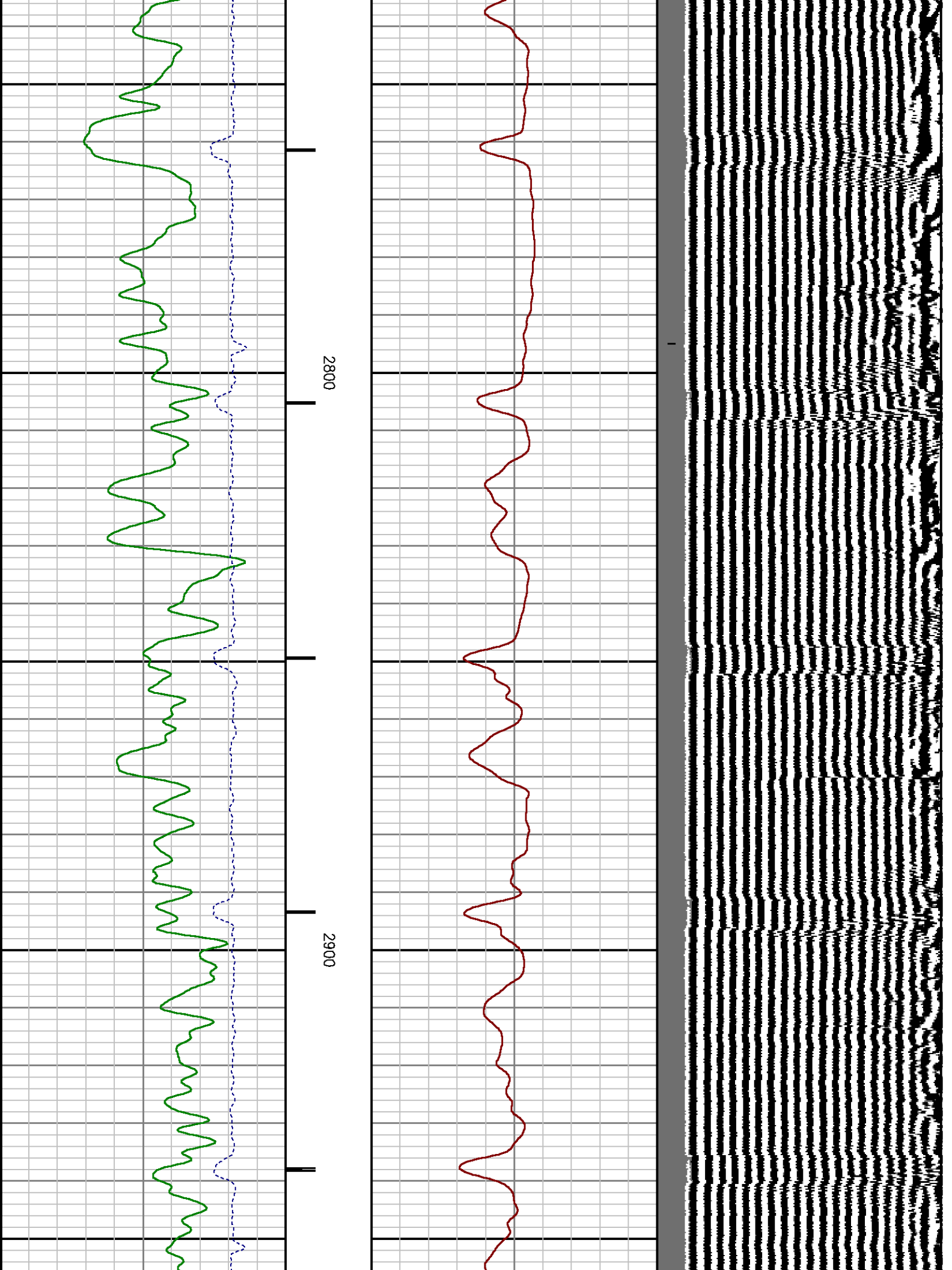


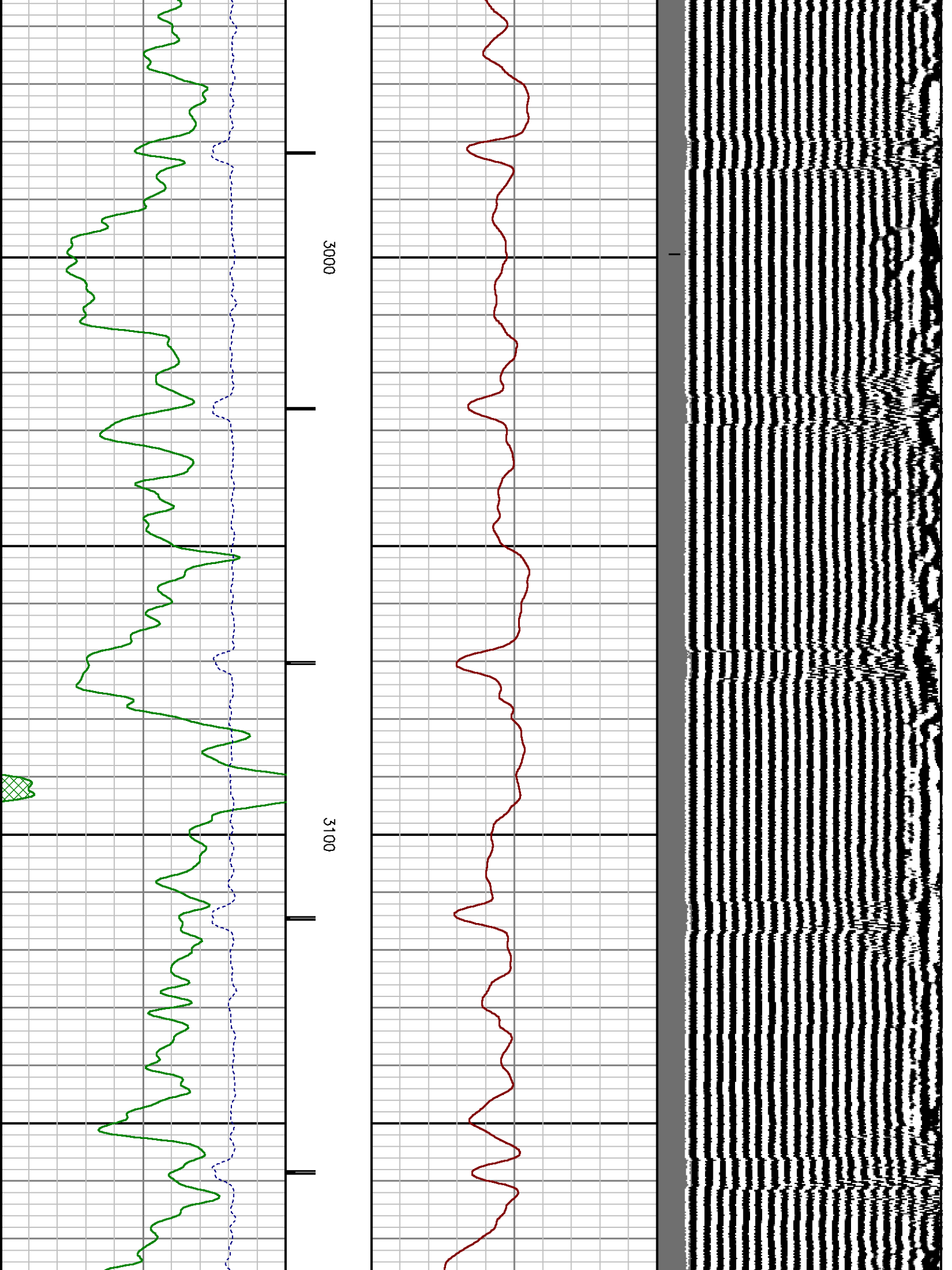


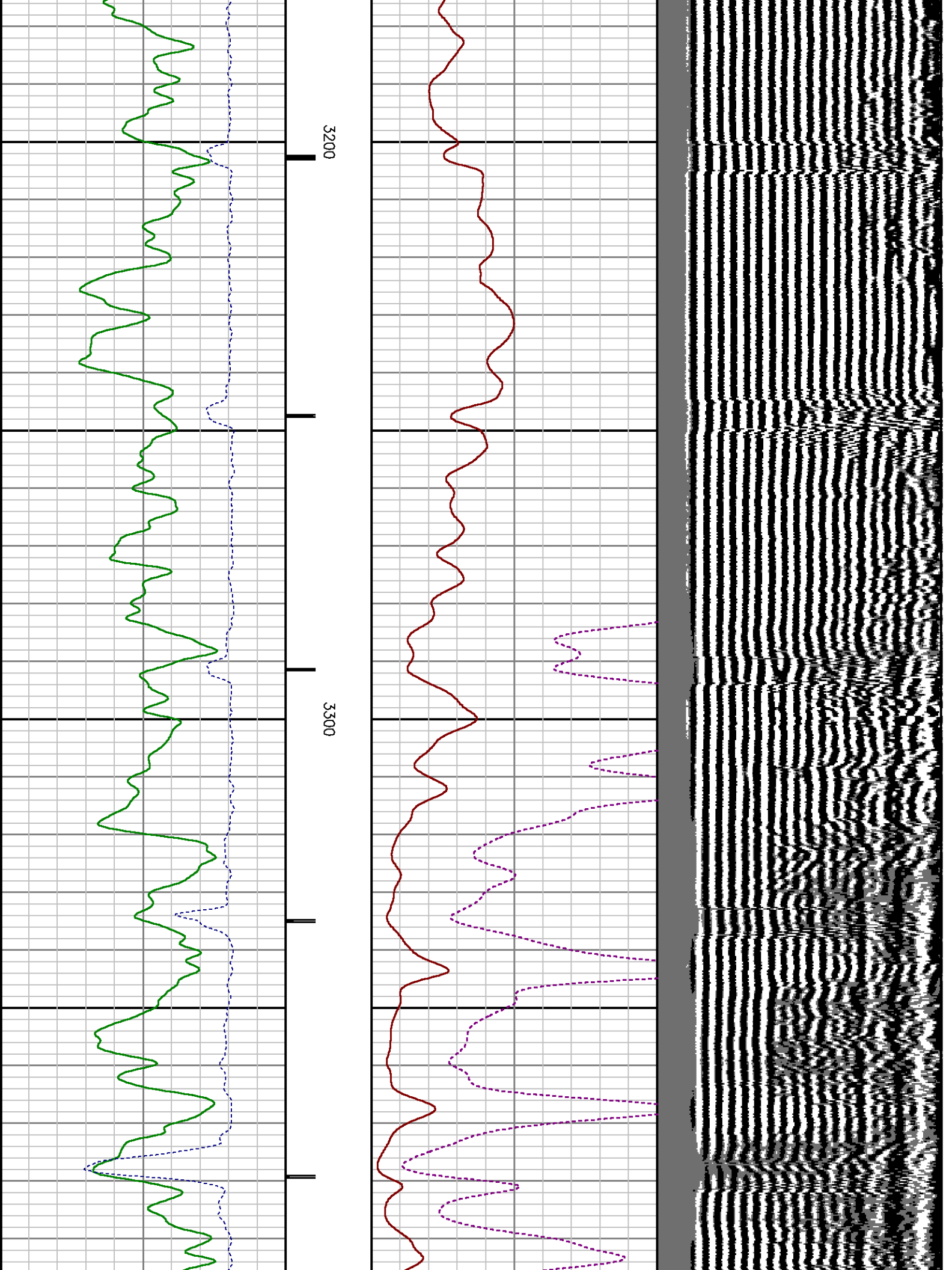


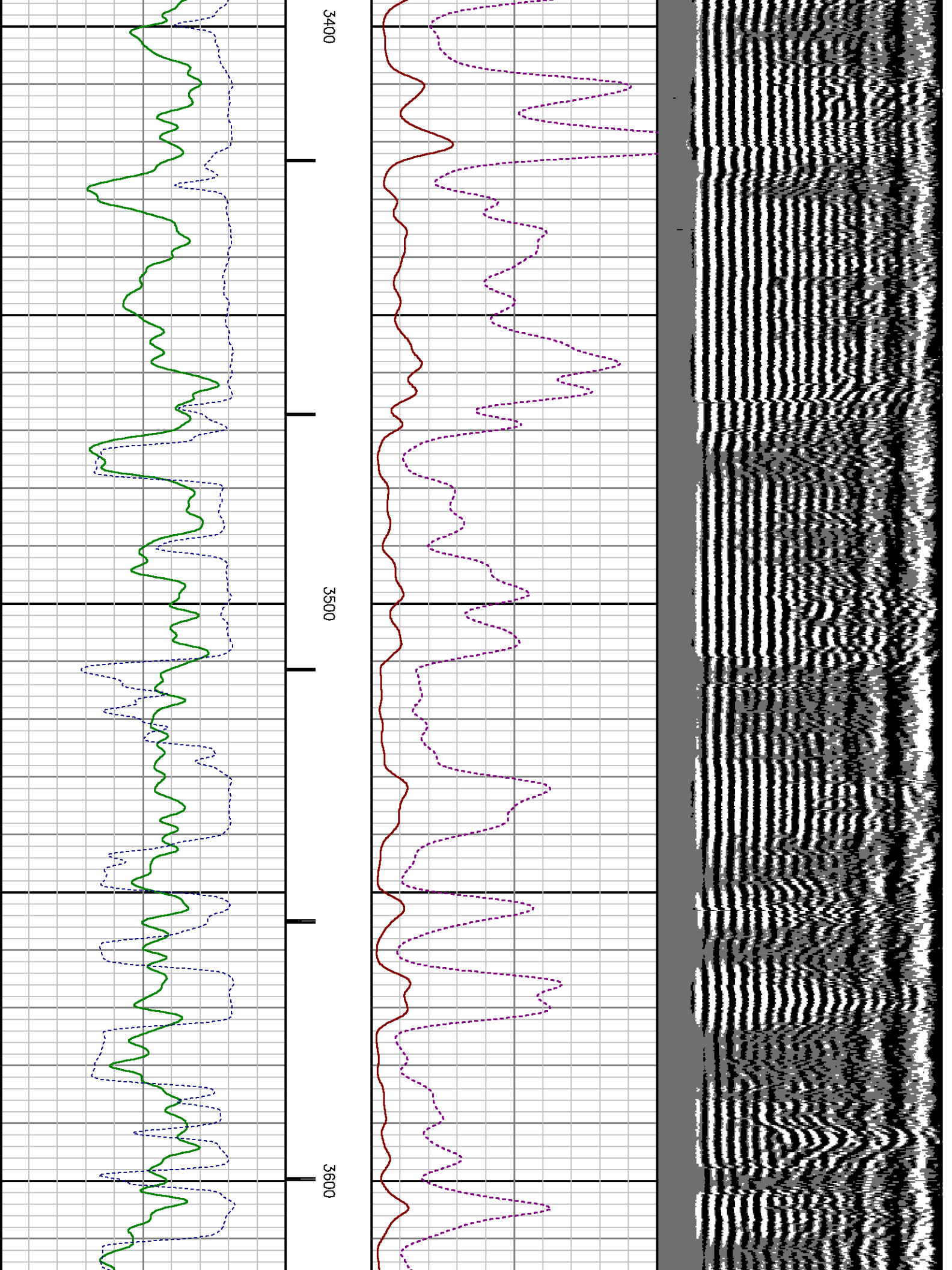


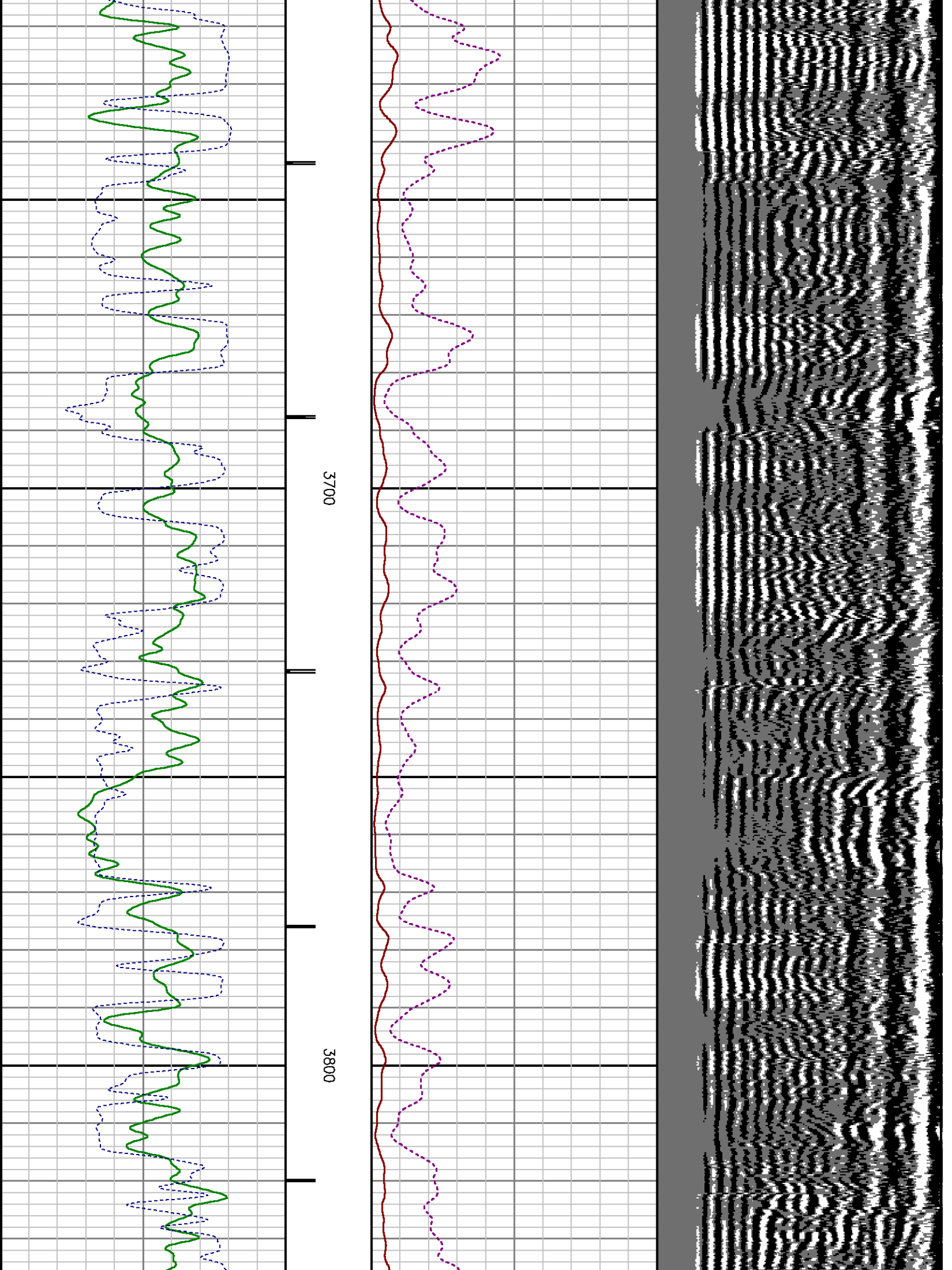


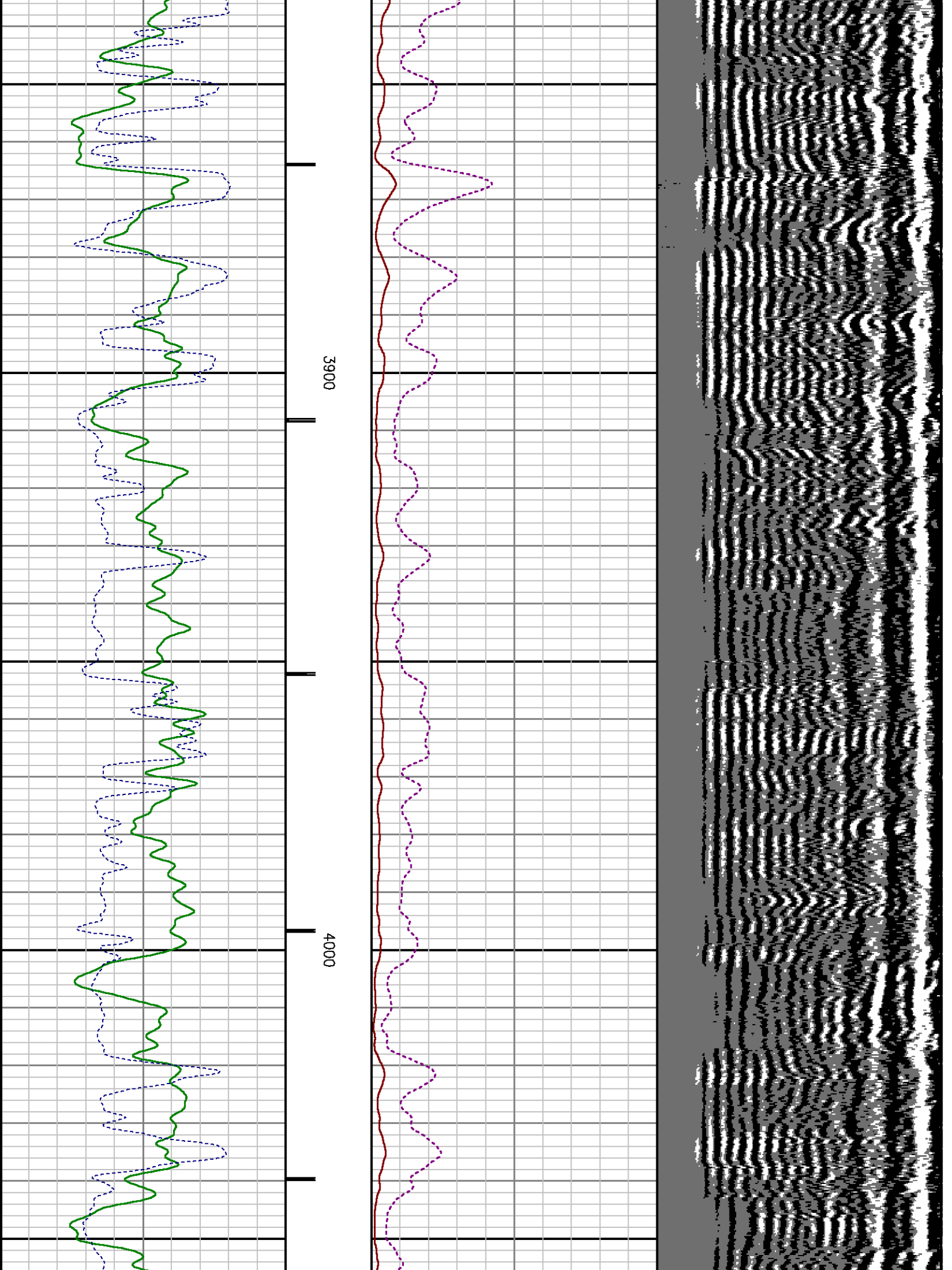


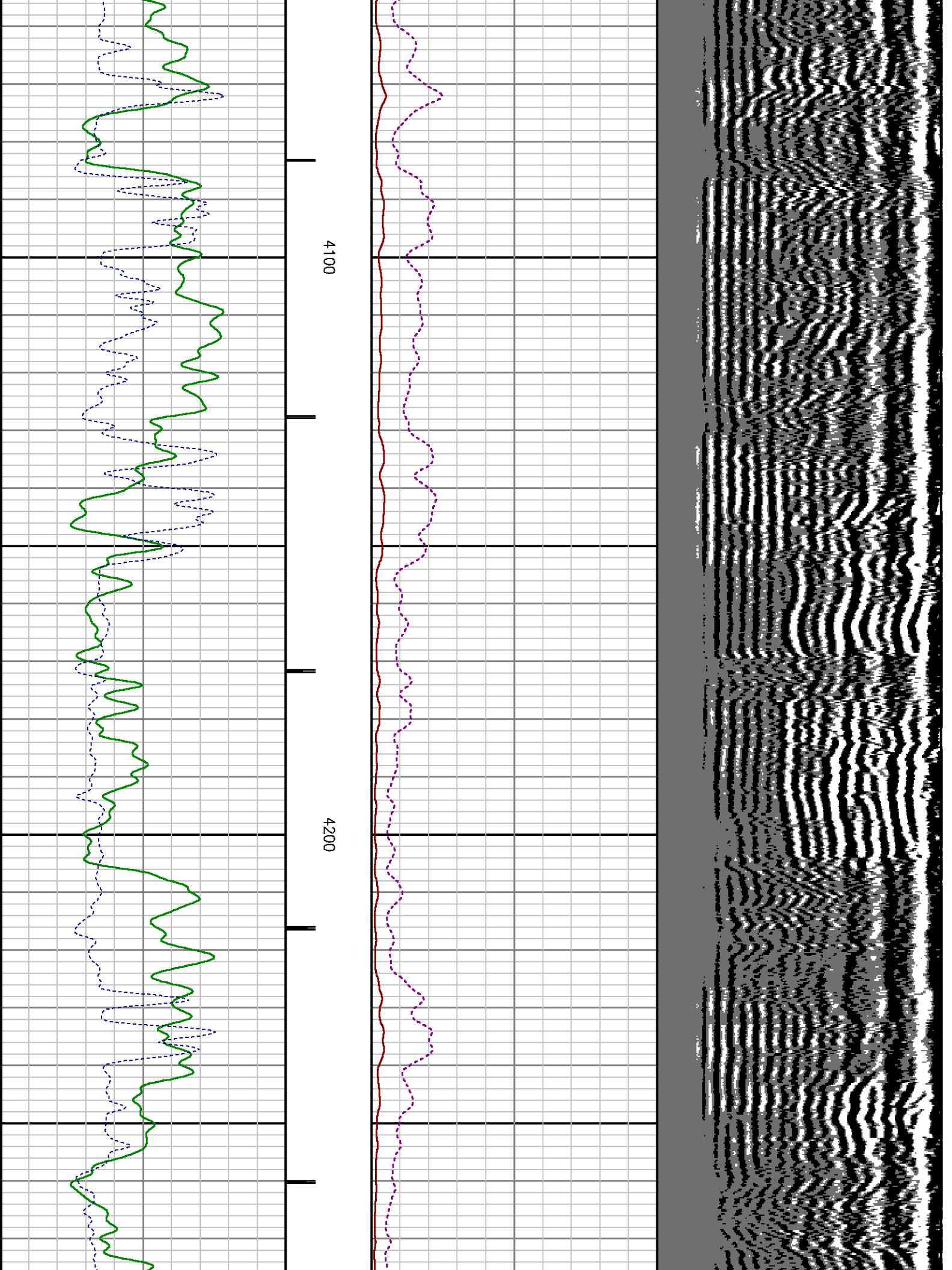


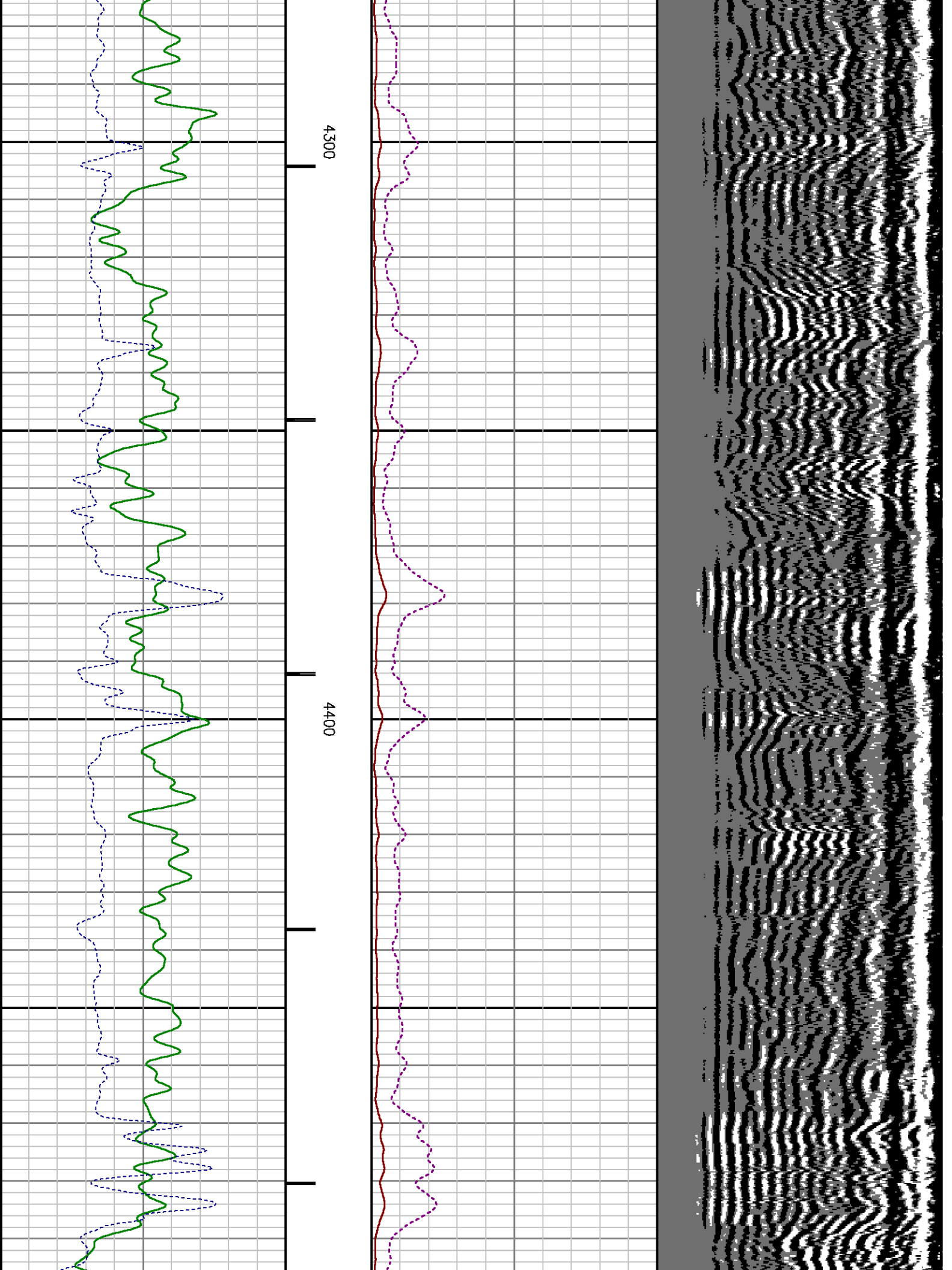


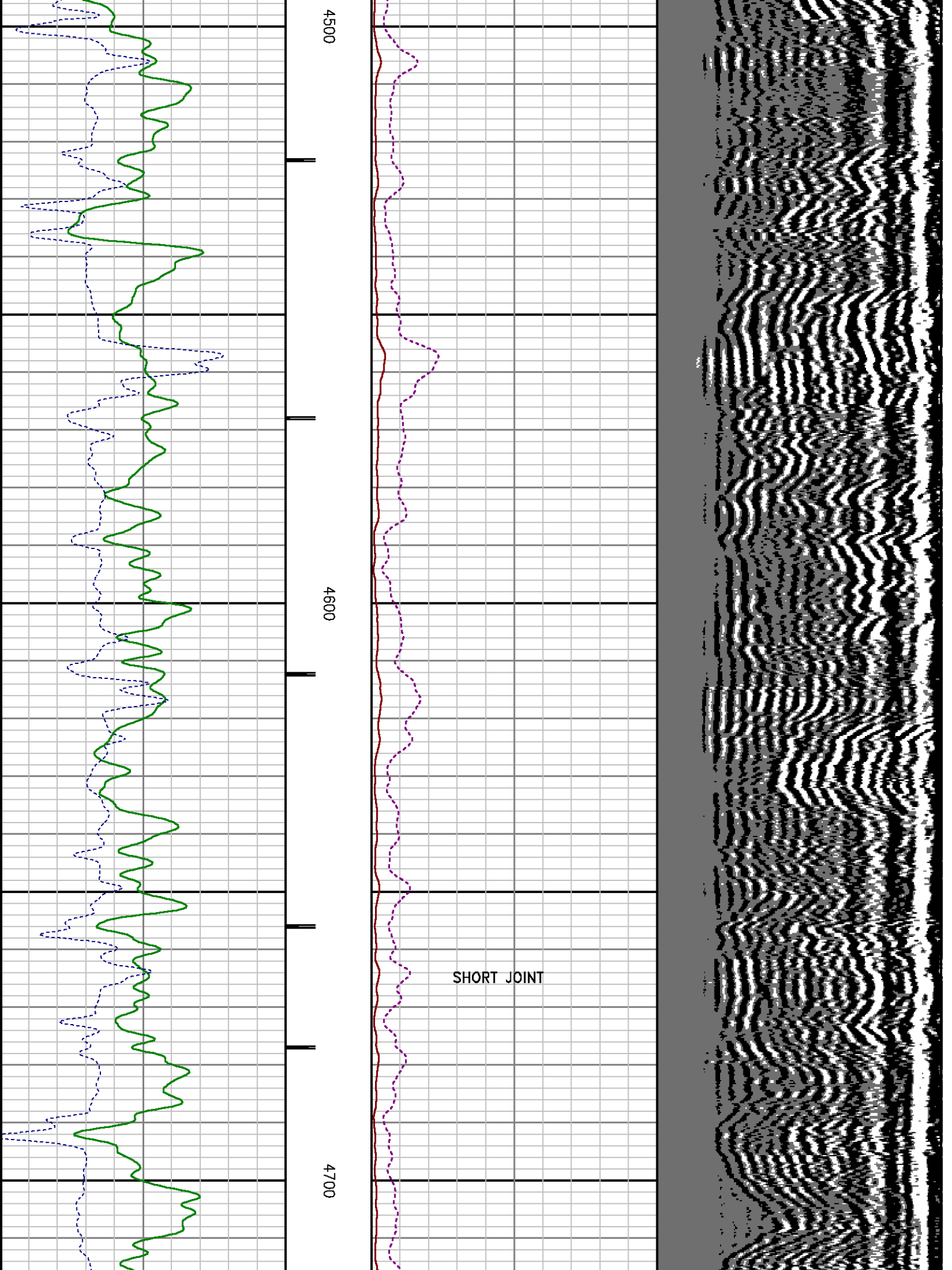


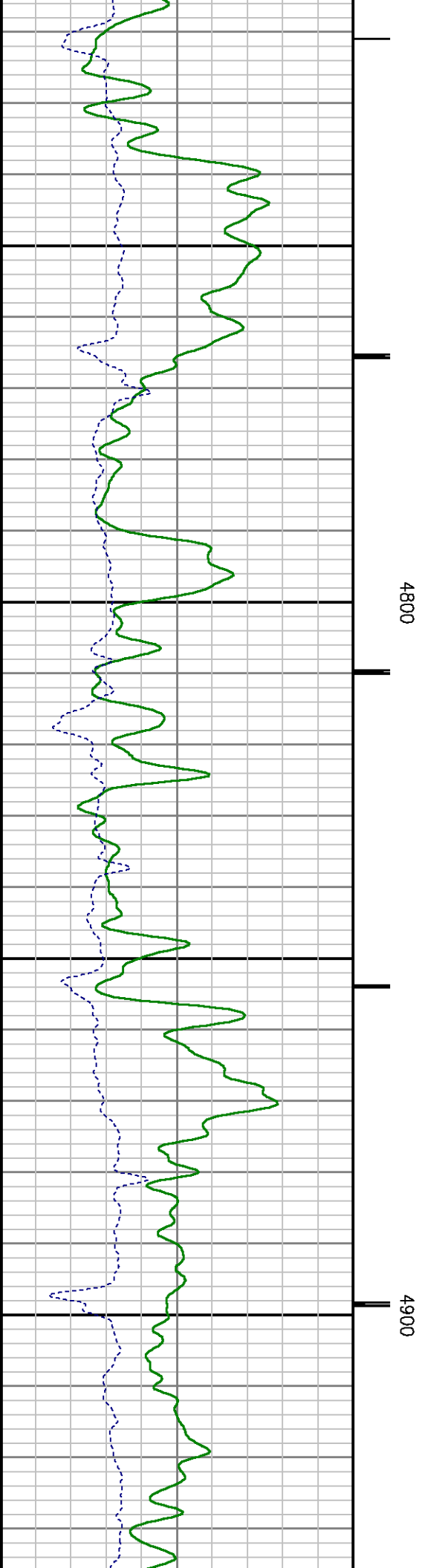
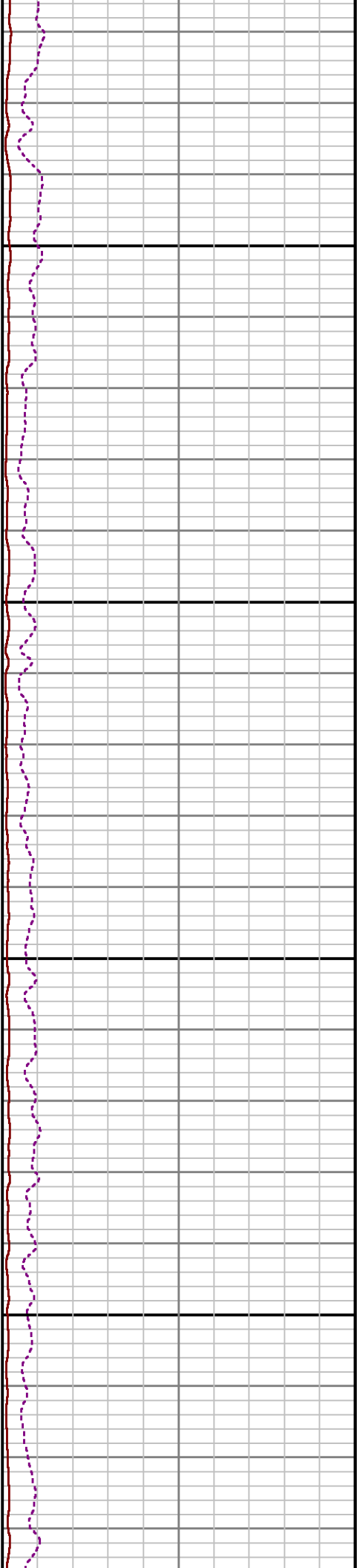
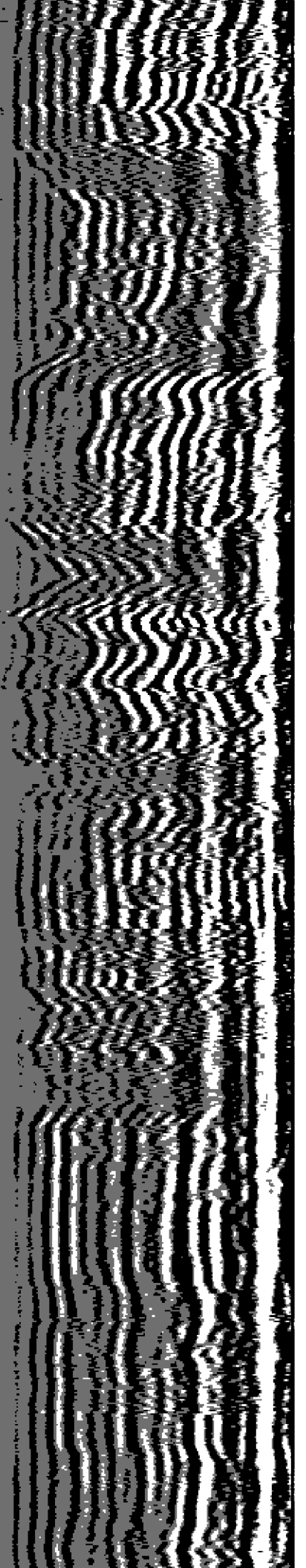


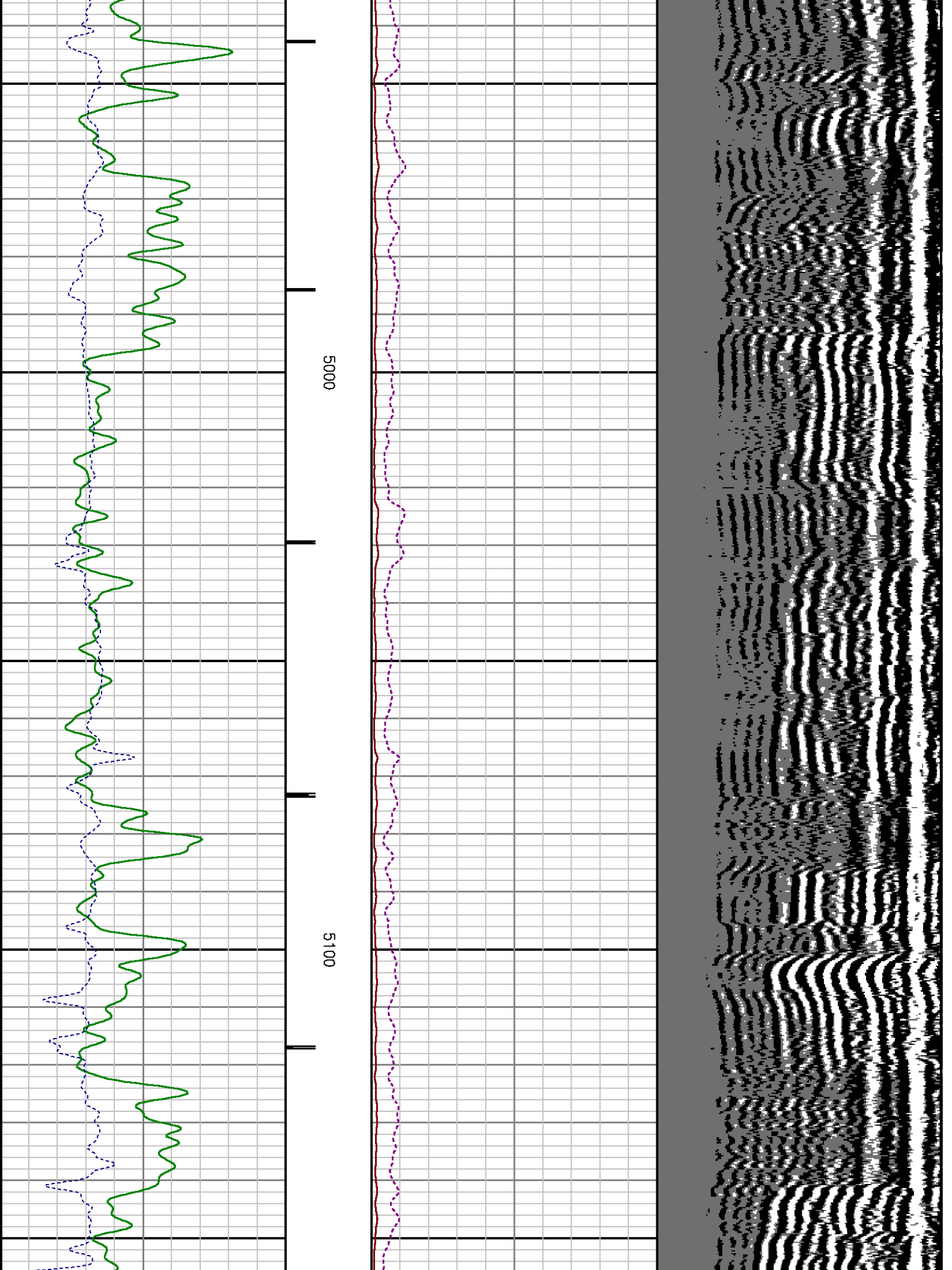


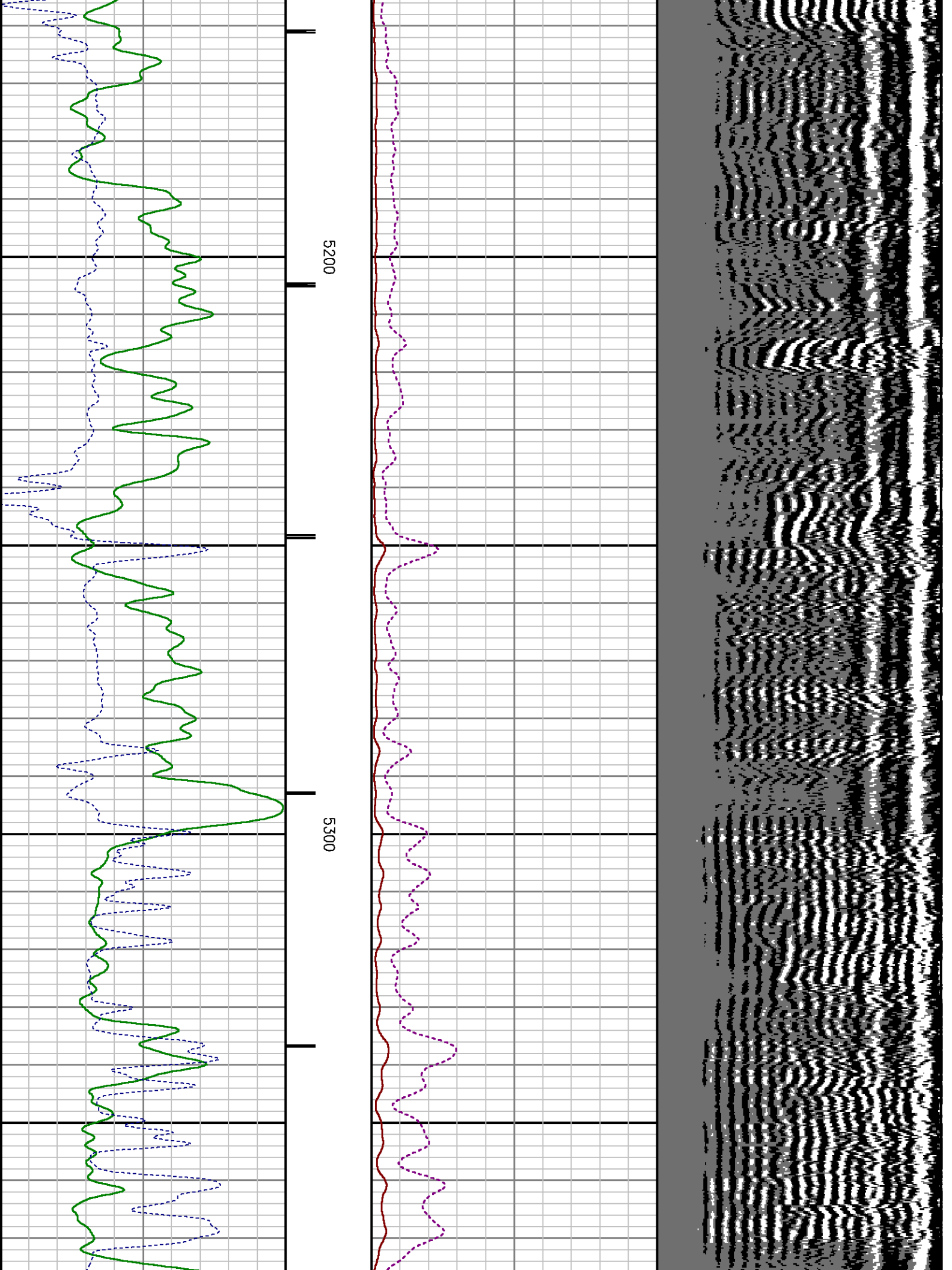


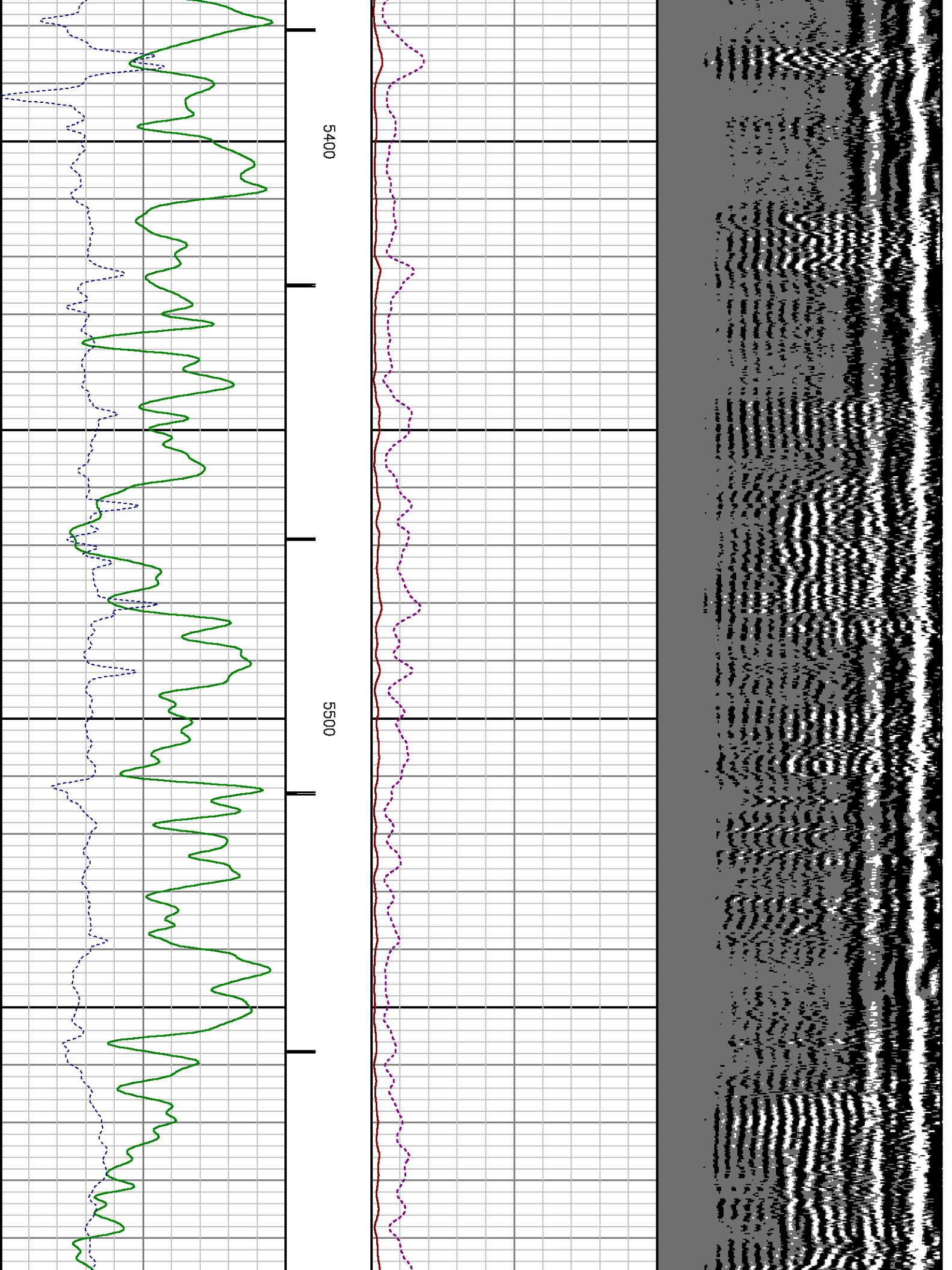


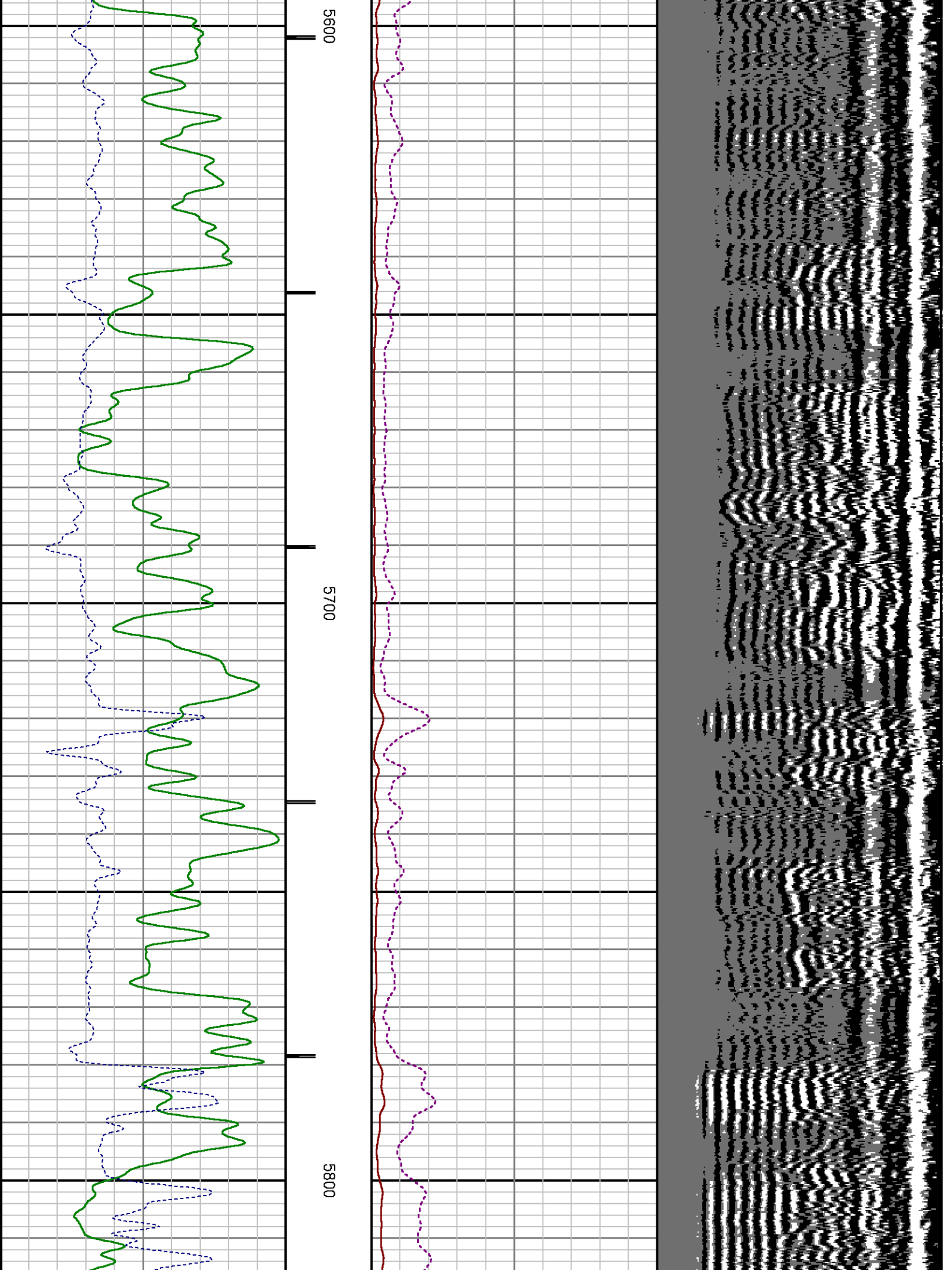


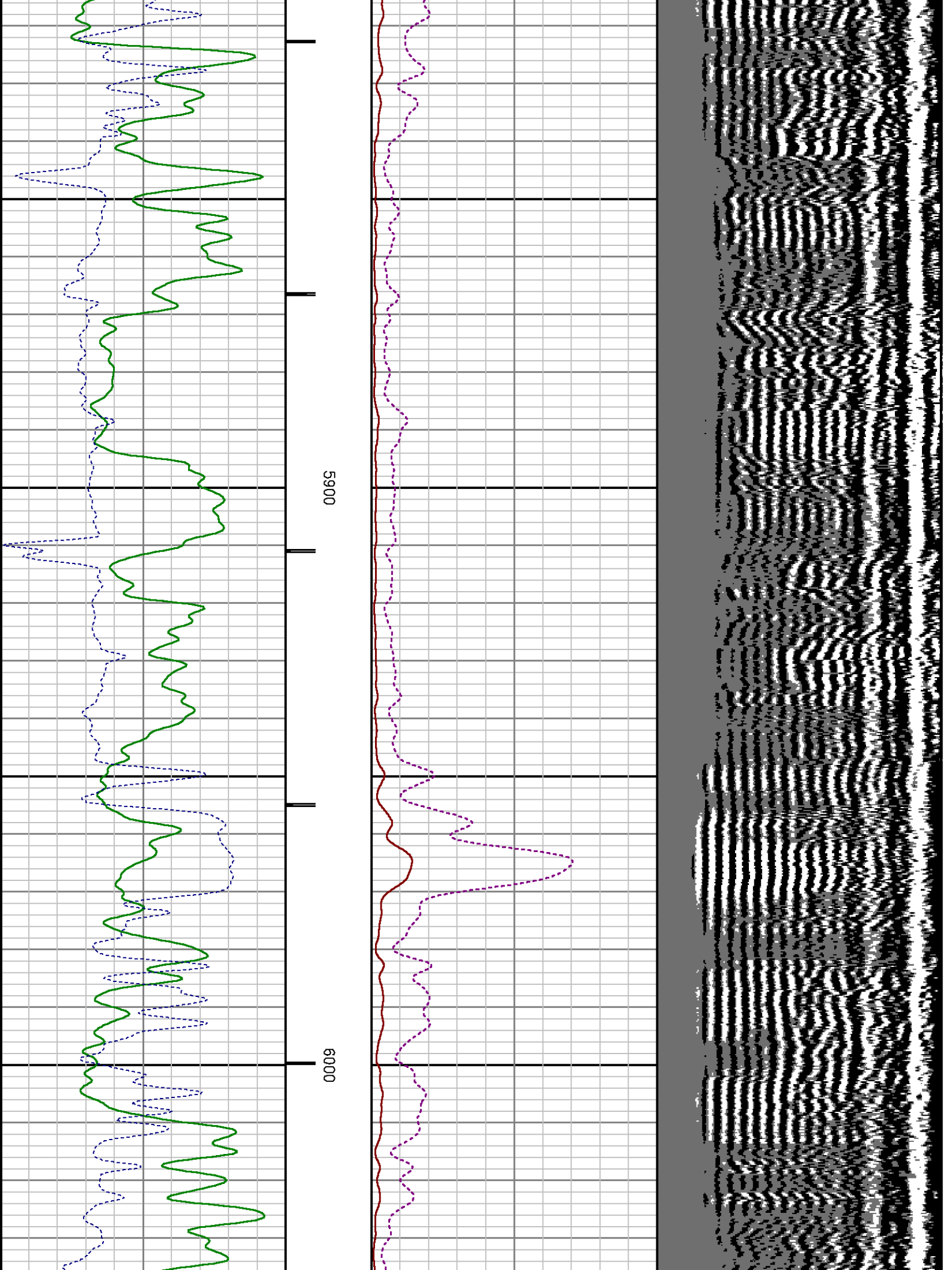


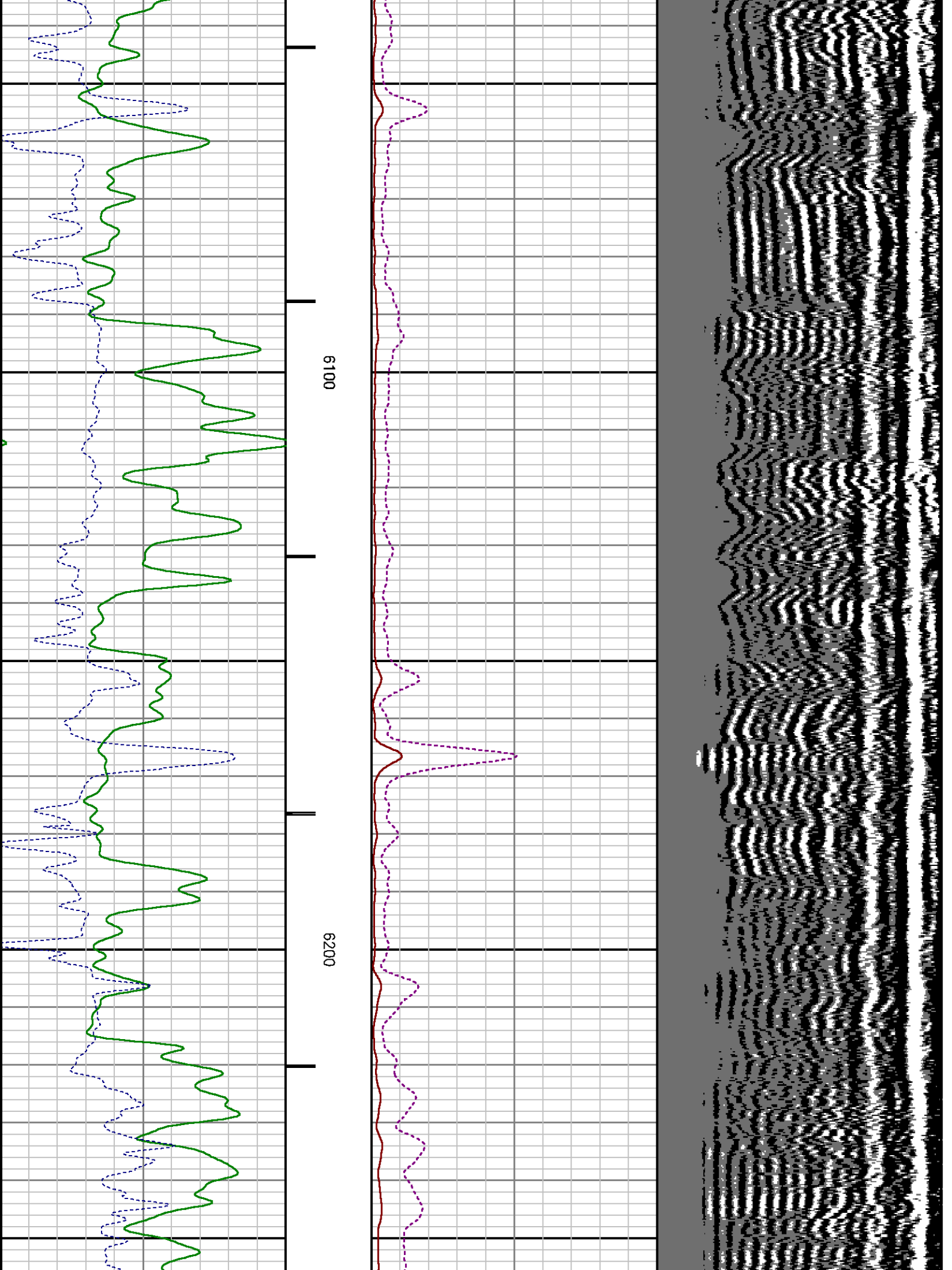


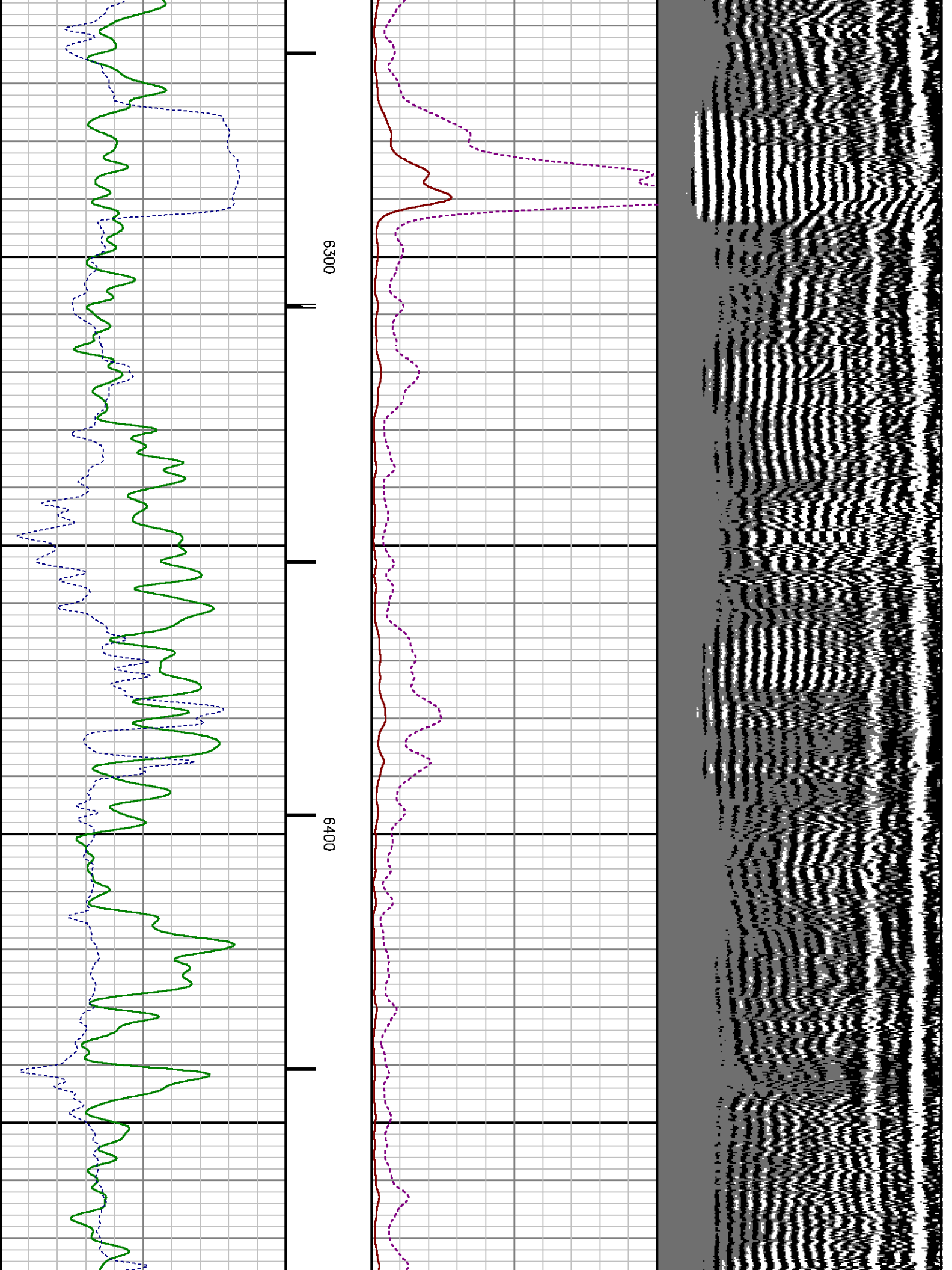


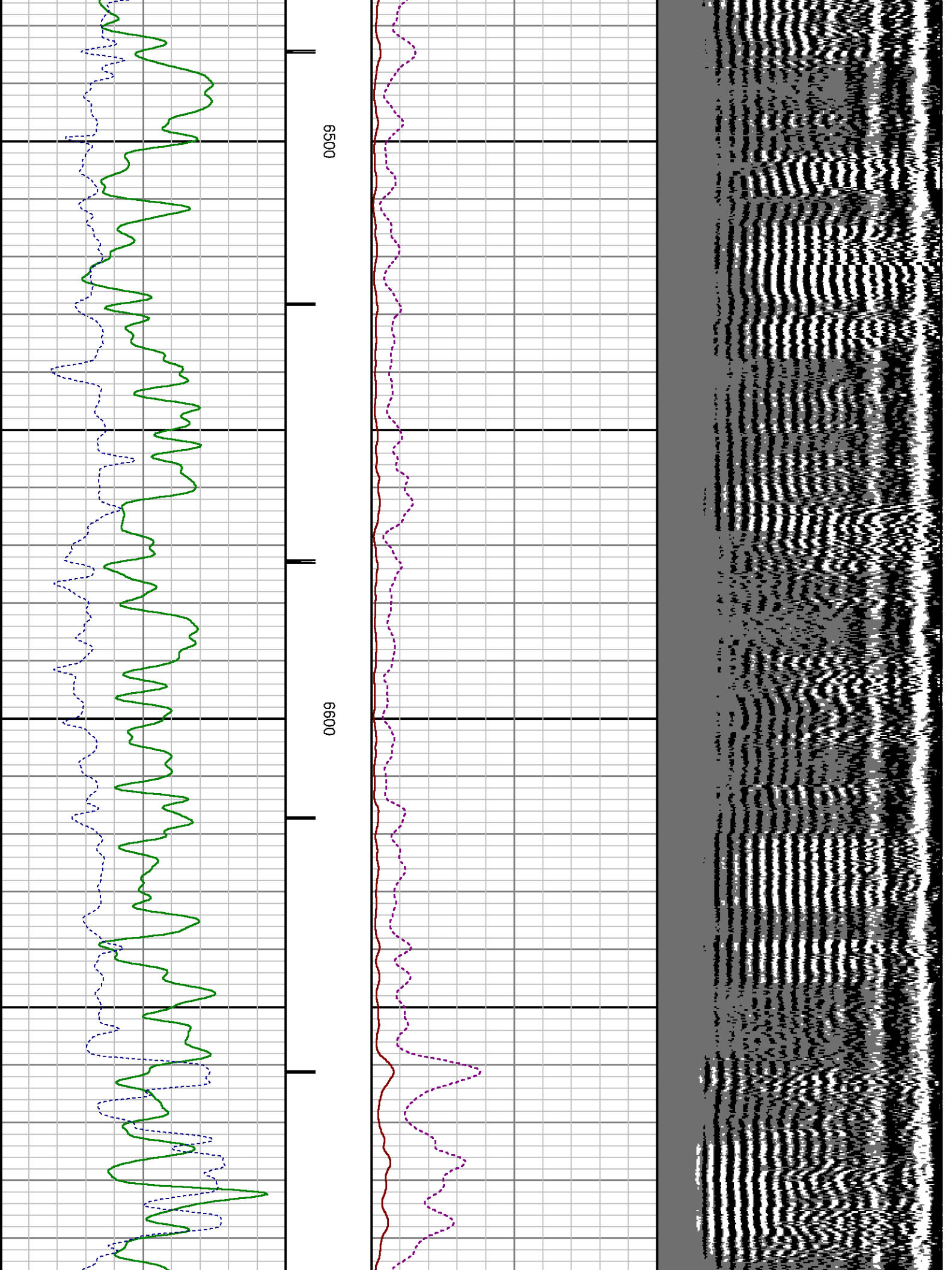


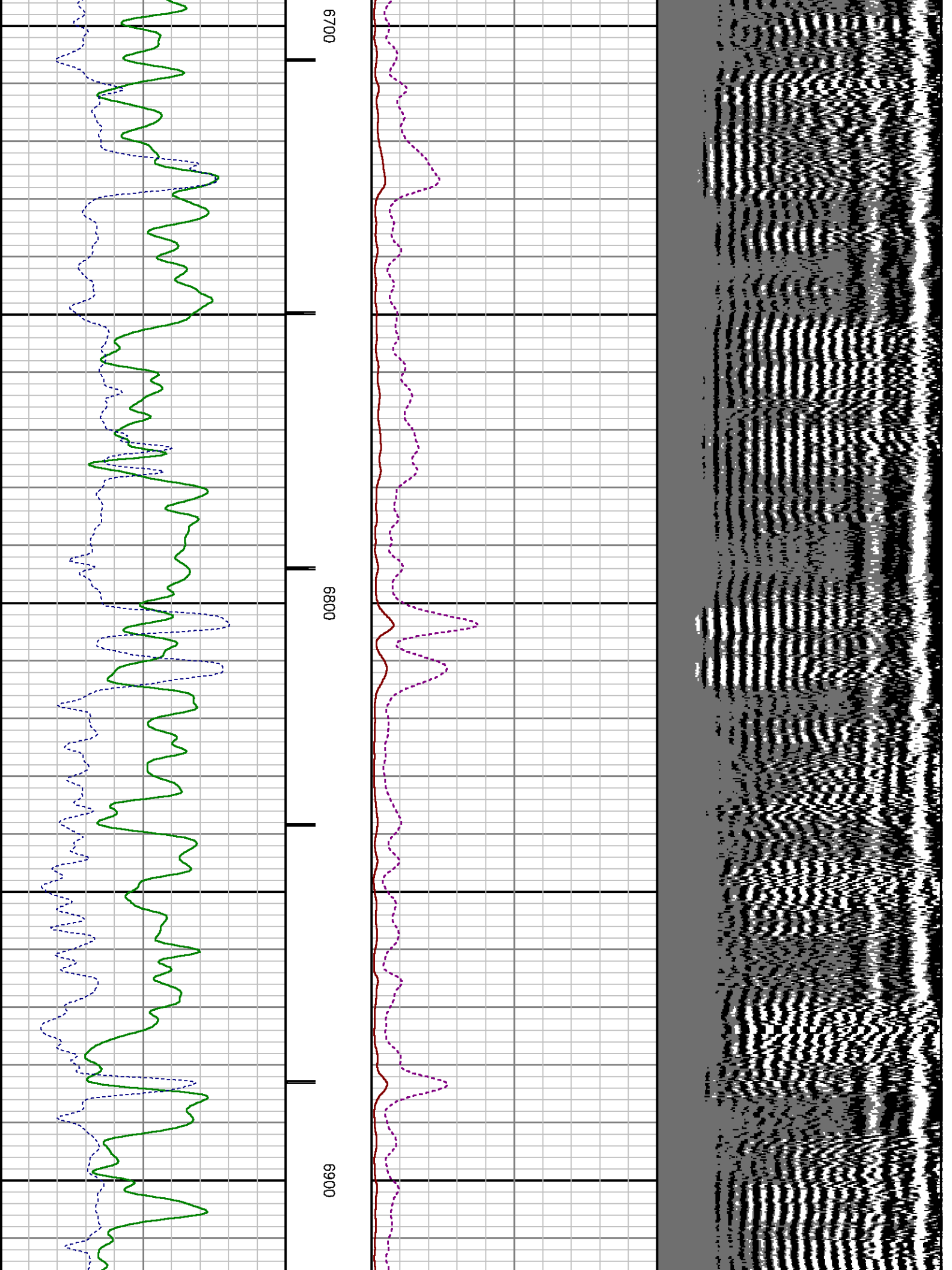


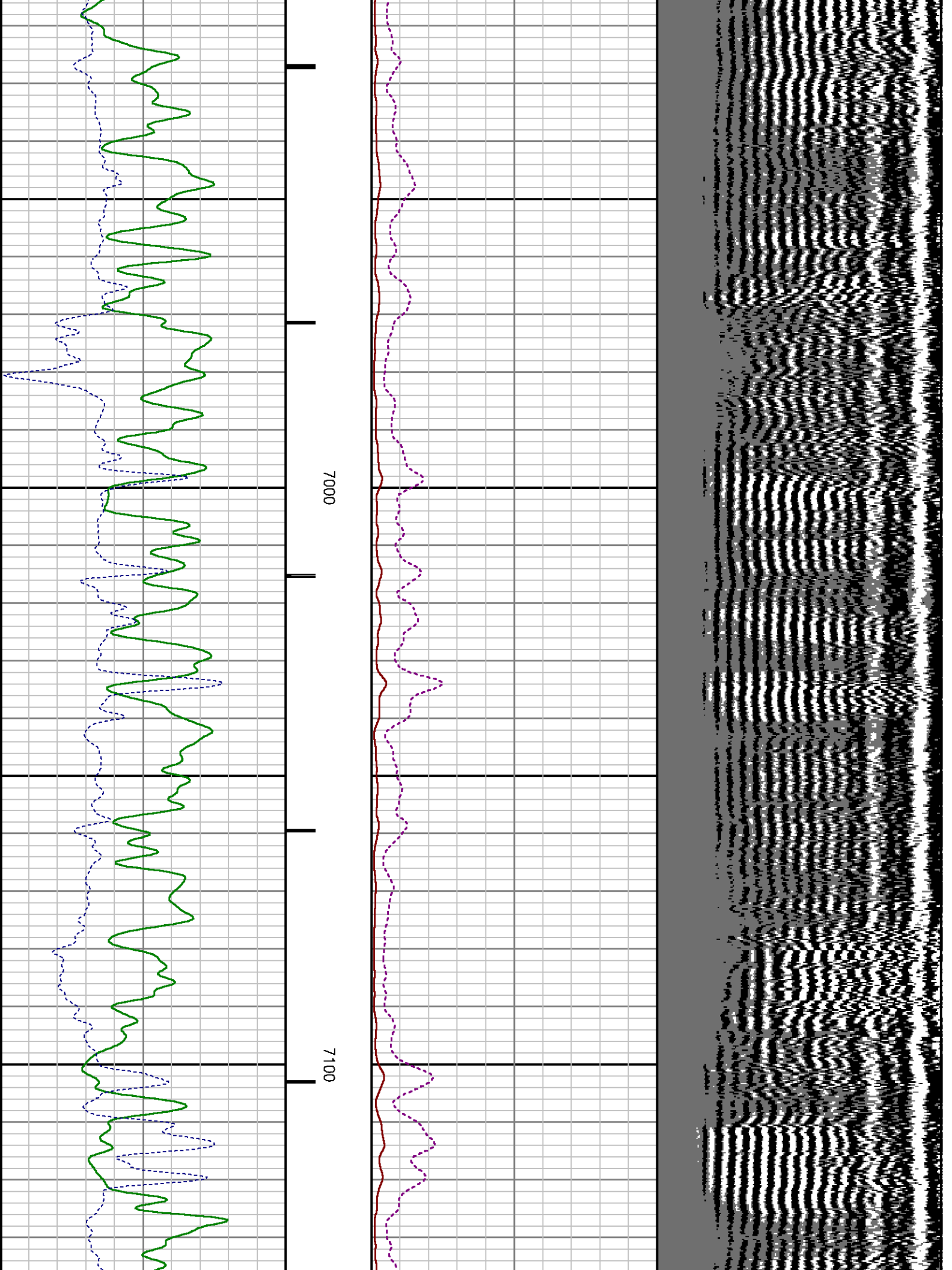


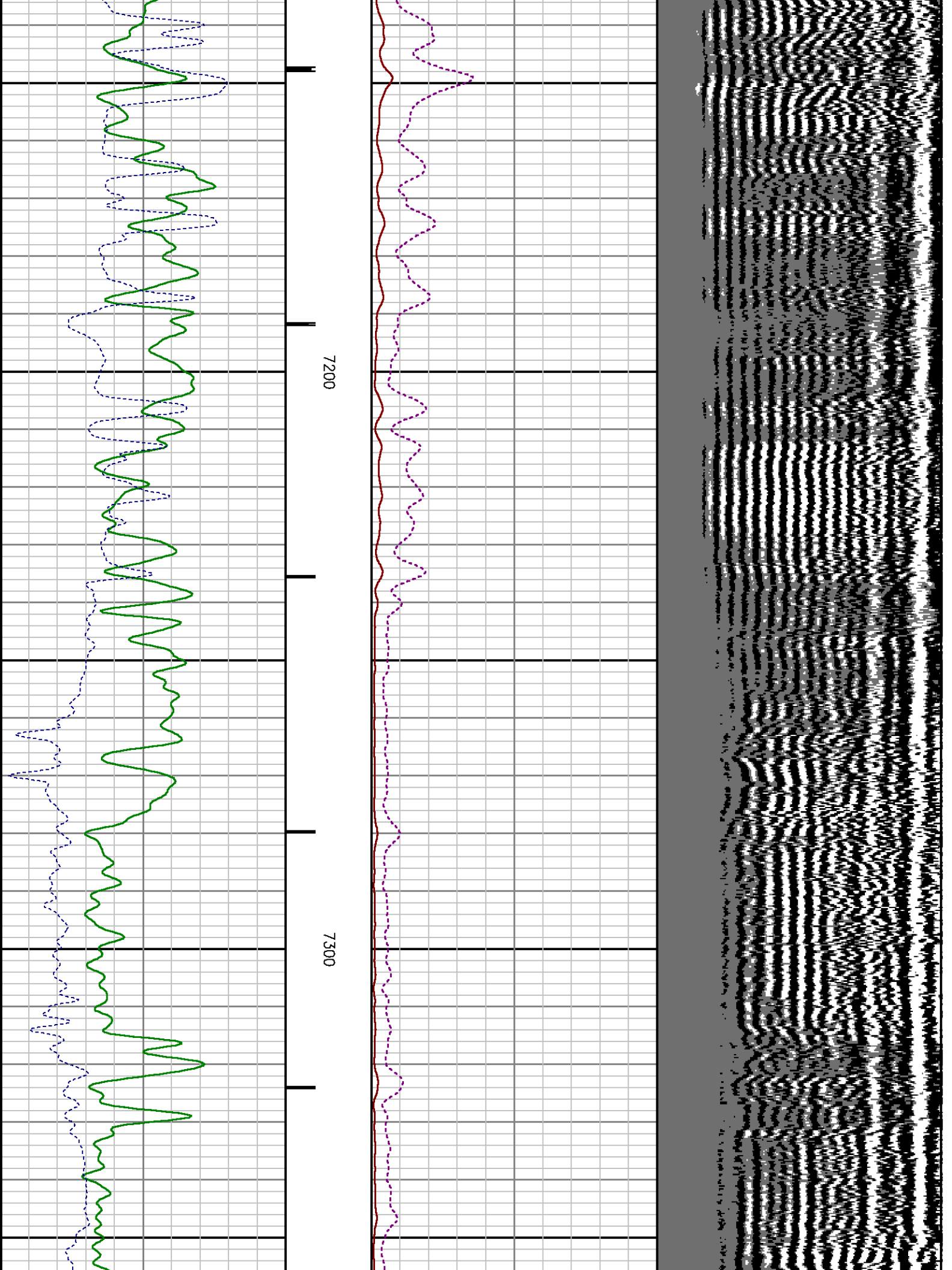


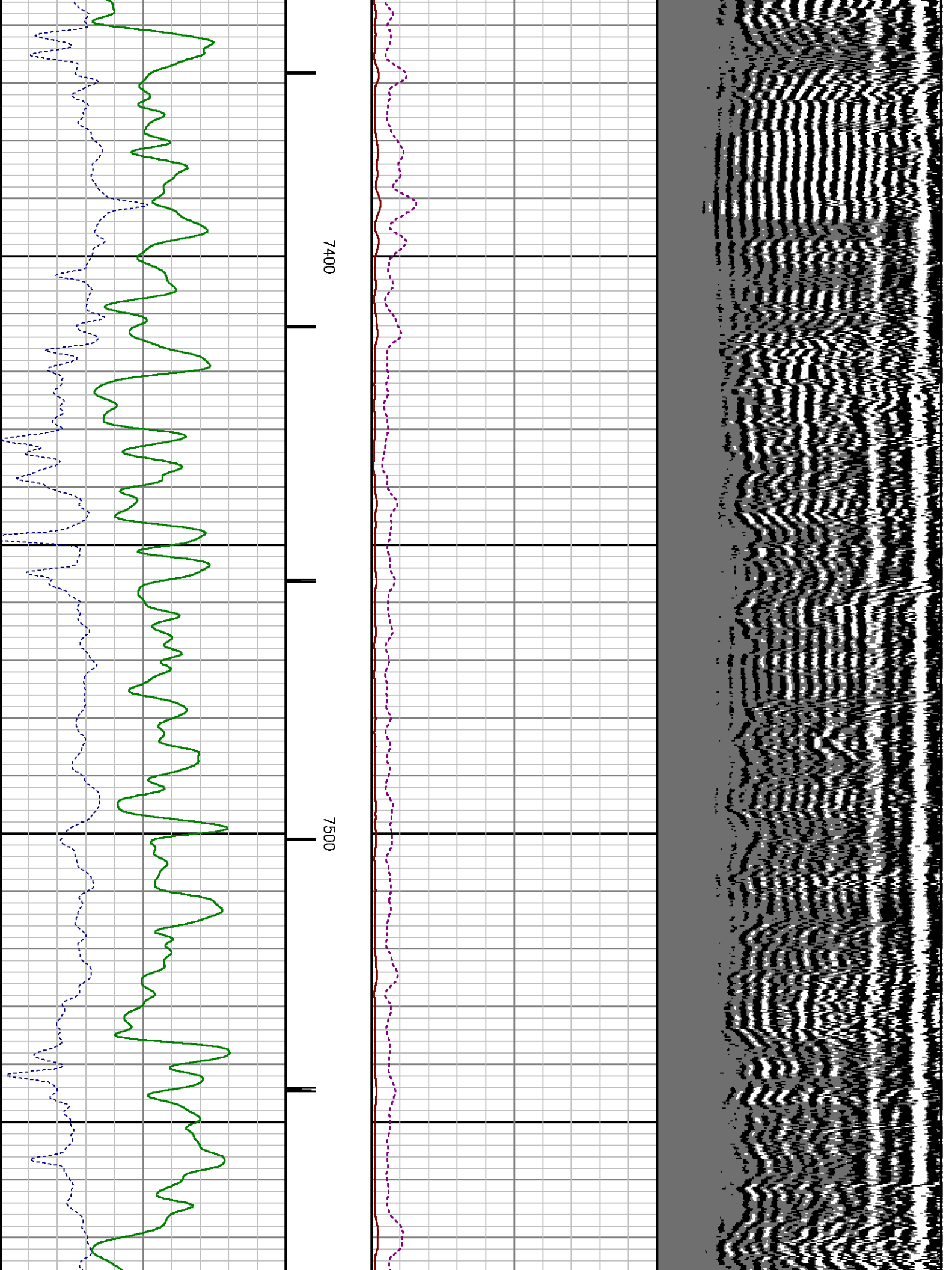


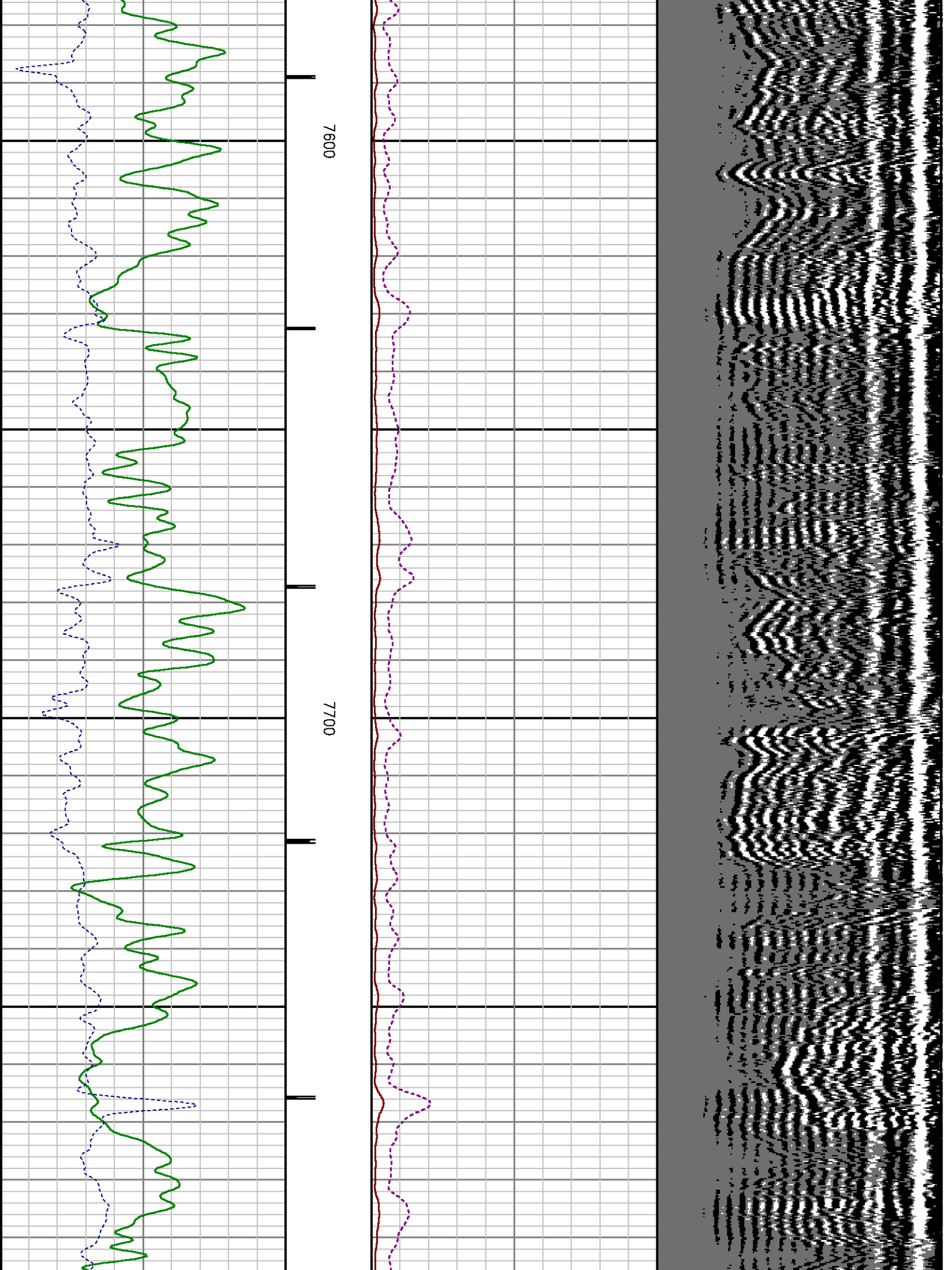


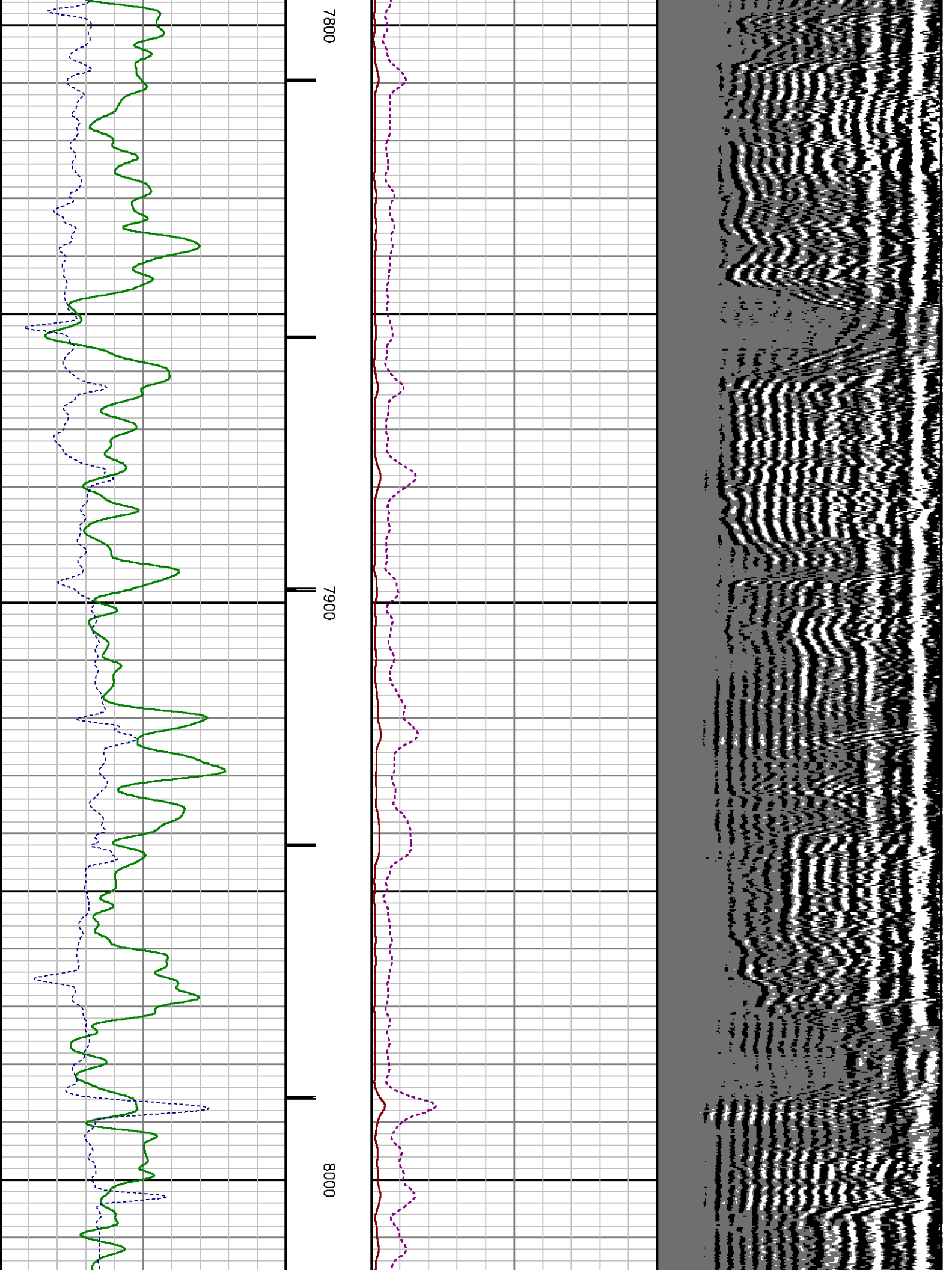


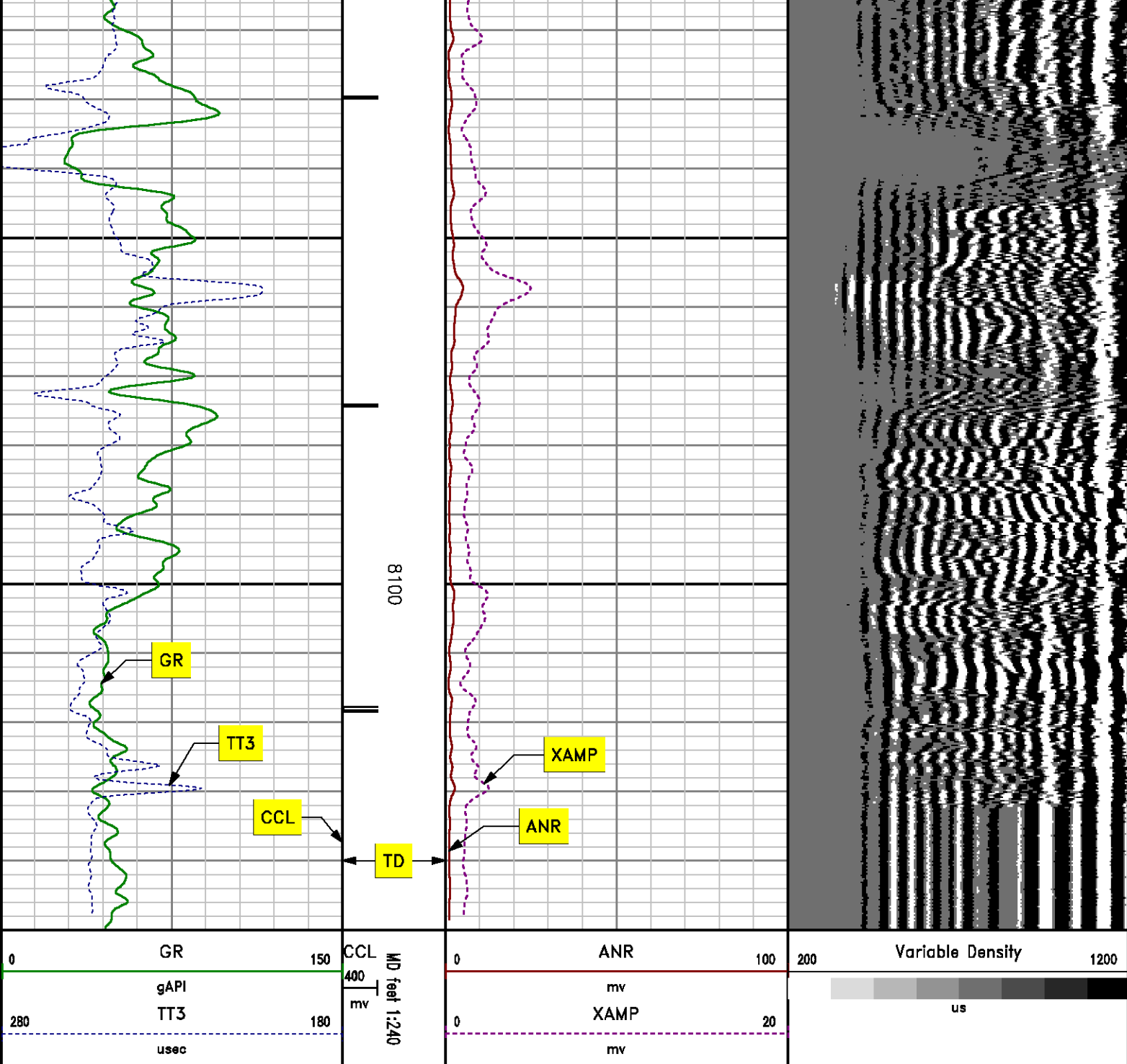












MAIN LOG SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.887	usec	24.937	8154.000
RAL	Amp Gate Start Near	197.374	usec	24.937	8154.000
RAL	Amp Gate Start Radial	198.140	usec	24.937	8154.000
RAL	Amp Gate Width Far	25.000	usec	24.937	8154.000
RAL	Amp Gate Width Near	25.000	usec	24.937	8154.000
RAL	Amp Gate Width Radial	25.000	usec	24.937	8154.000
RAL	casing od	4.500	inches	24.937	8154.000
RAL	casing wt	11.600	lbm/ft	24.937	8154.000
RAL	FB Start Far	291.900	usec	24.937	8154.000
RAL	FB Start Near	175.391	usec	24.937	8154.000
RAL	FB Start Radial	175.391	usec	24.937	8154.000
RAL	FB Thresh Far	10.000	mv	24.937	8154.000
RAL	FB Thresh Near	4.000	mv	24.937	8154.000
RAL	FB Thresh Radial	4.000	mv	24.937	8154.000
RAL	Fluid Travel Time	200.000	usec/ft	24.937	8153.812

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

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Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

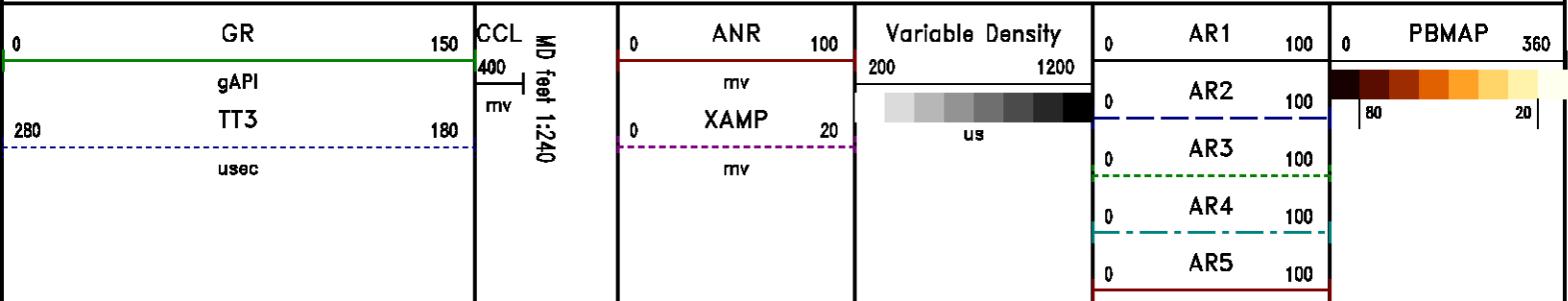
Well : GOLDSBOROUGH PA 411-11

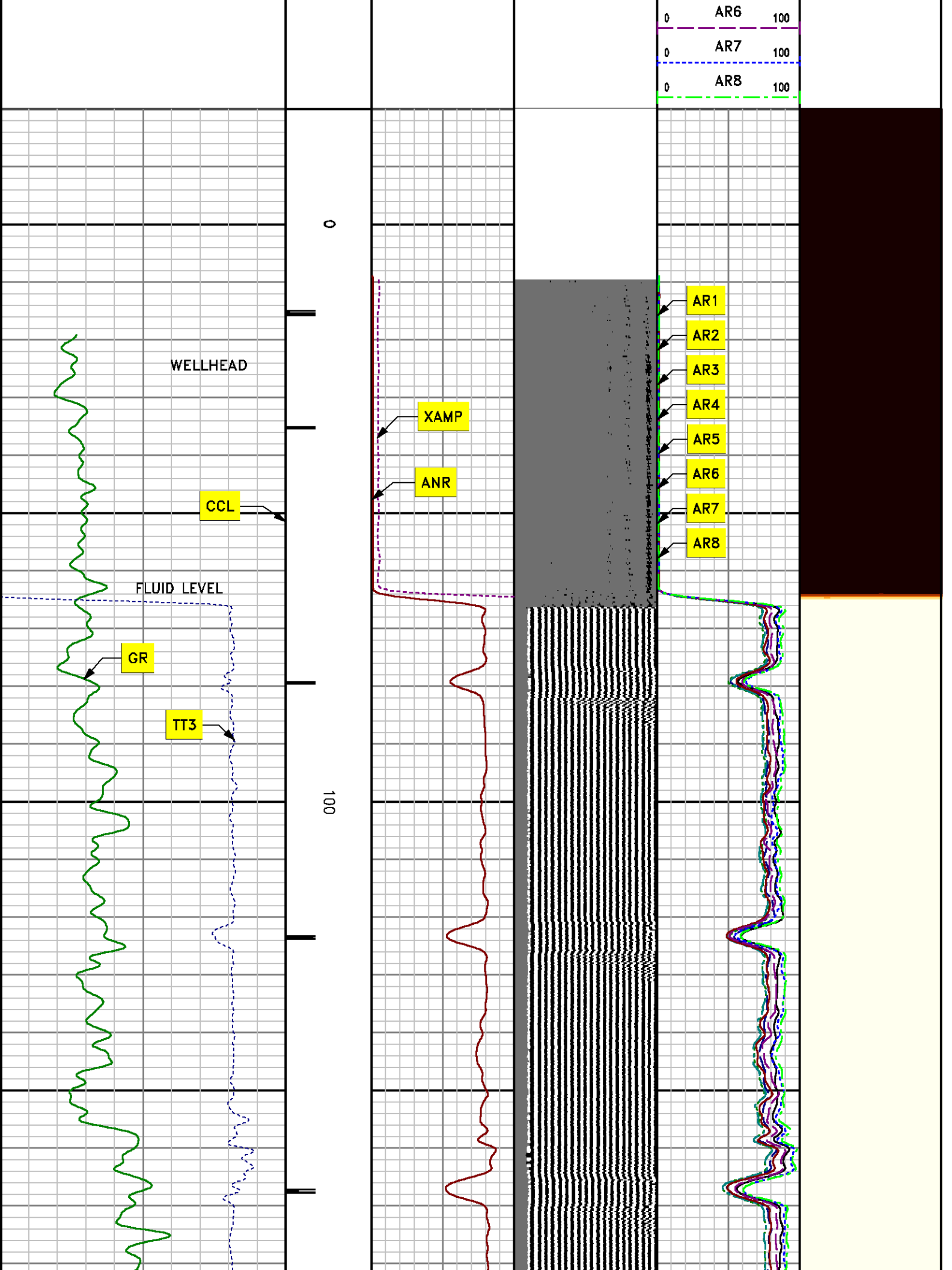
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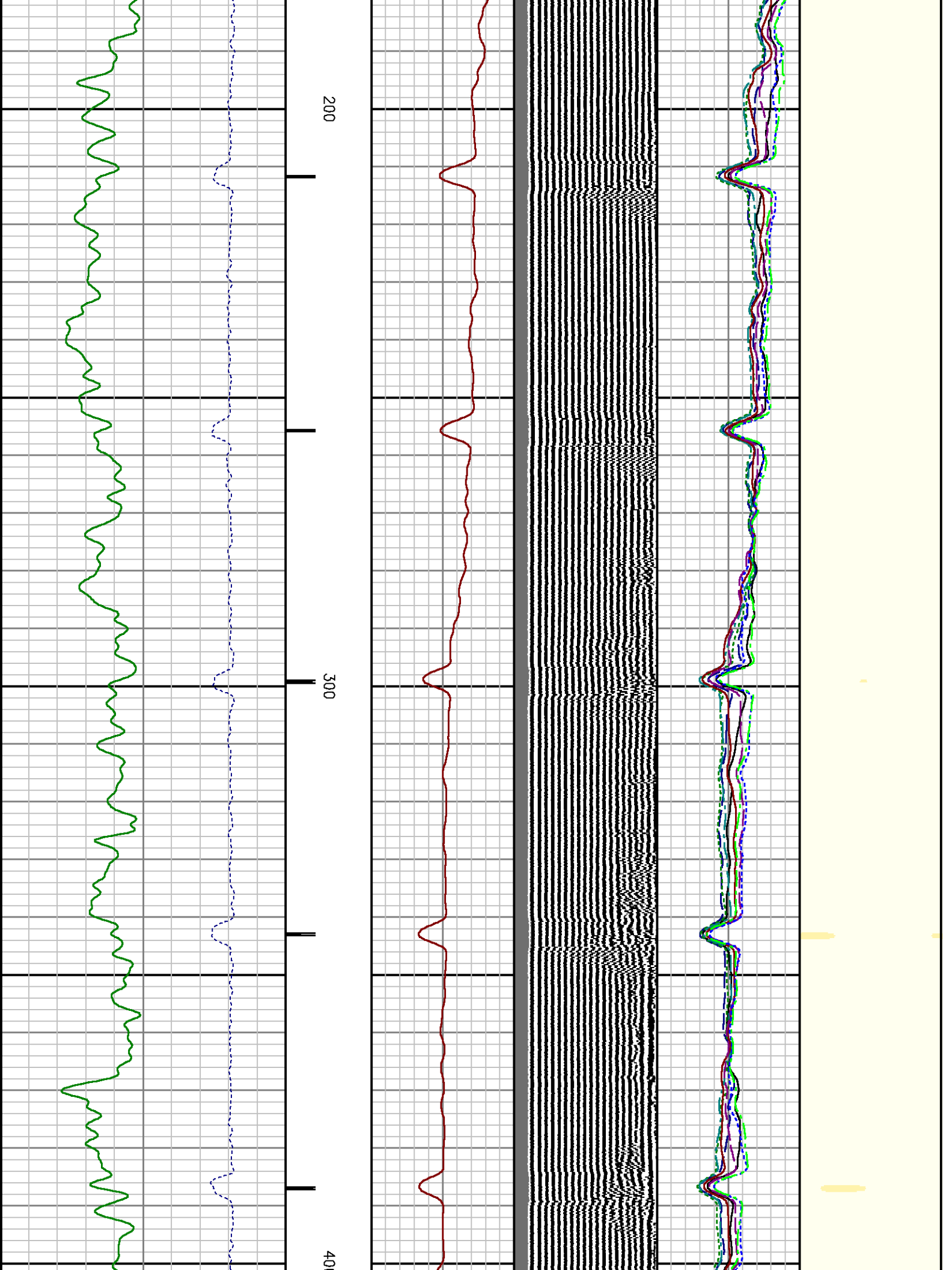
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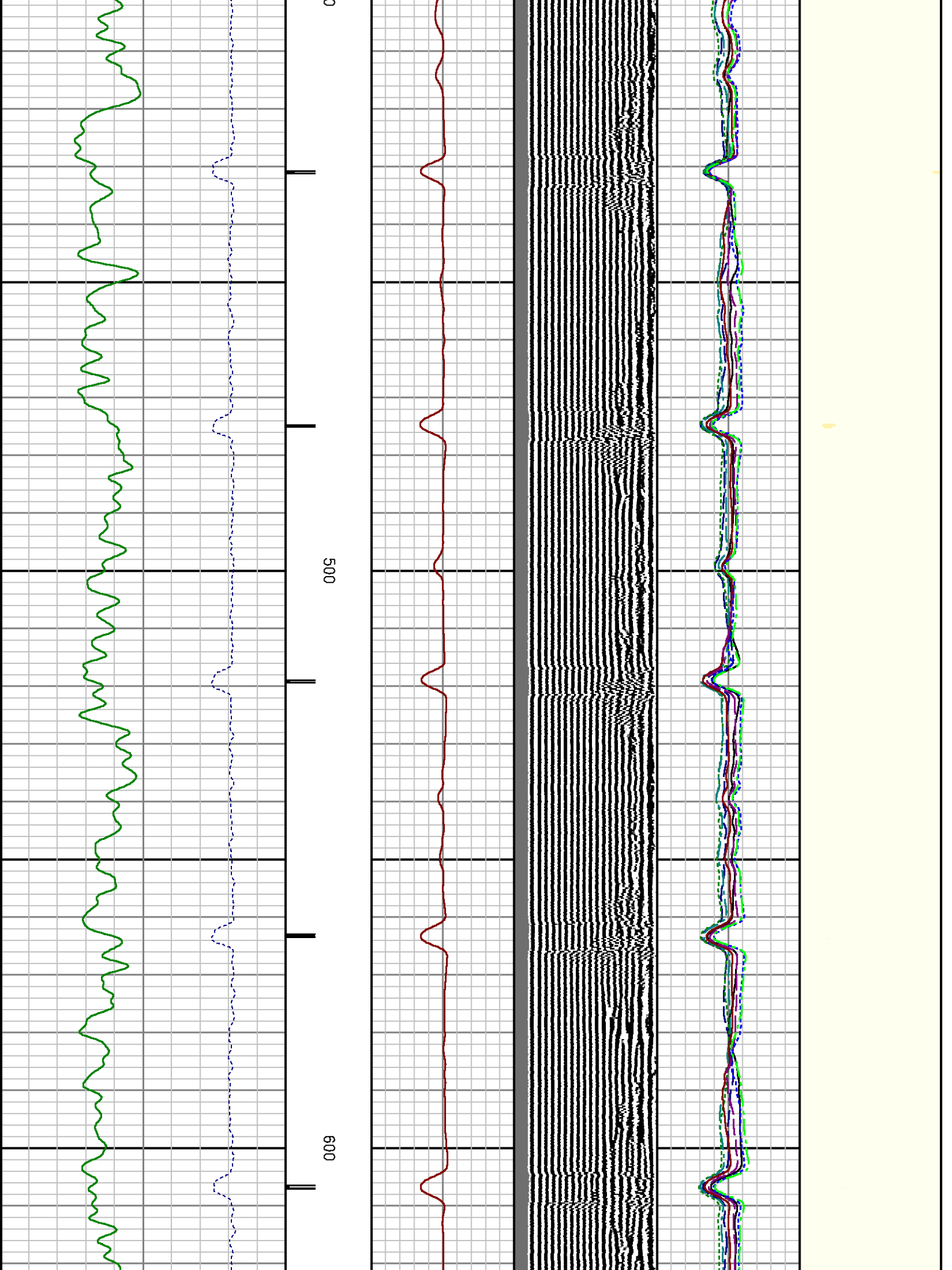
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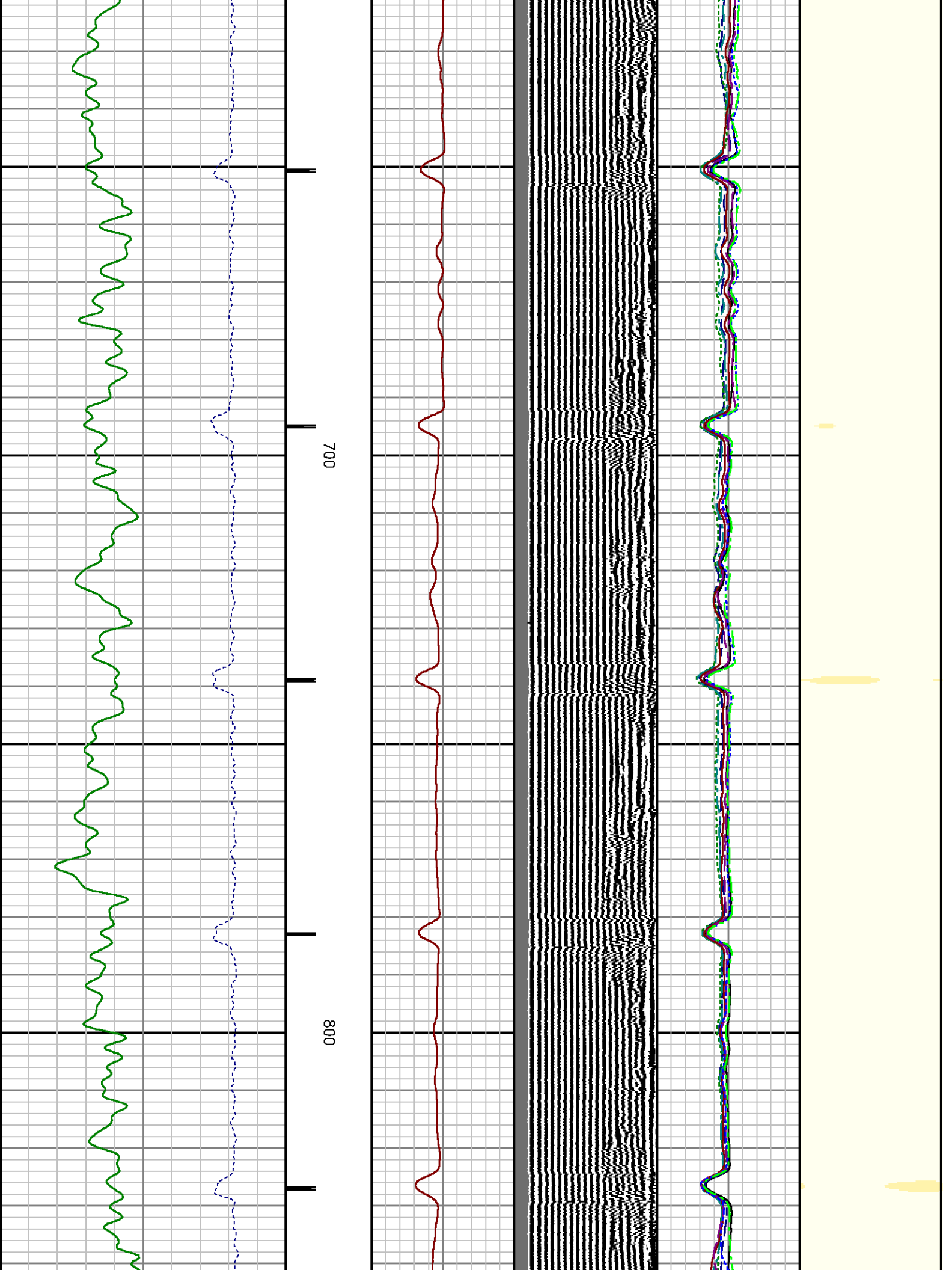
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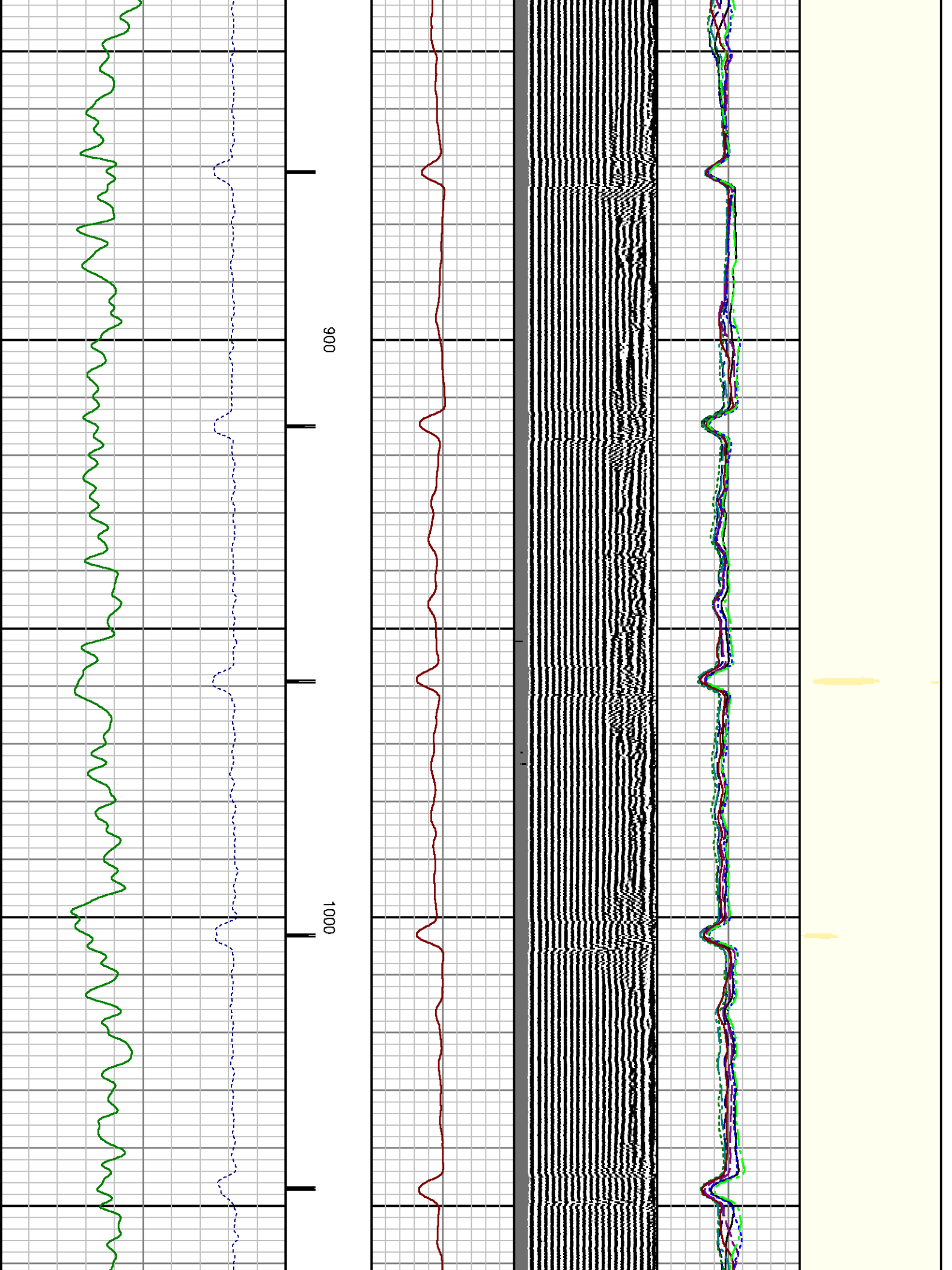


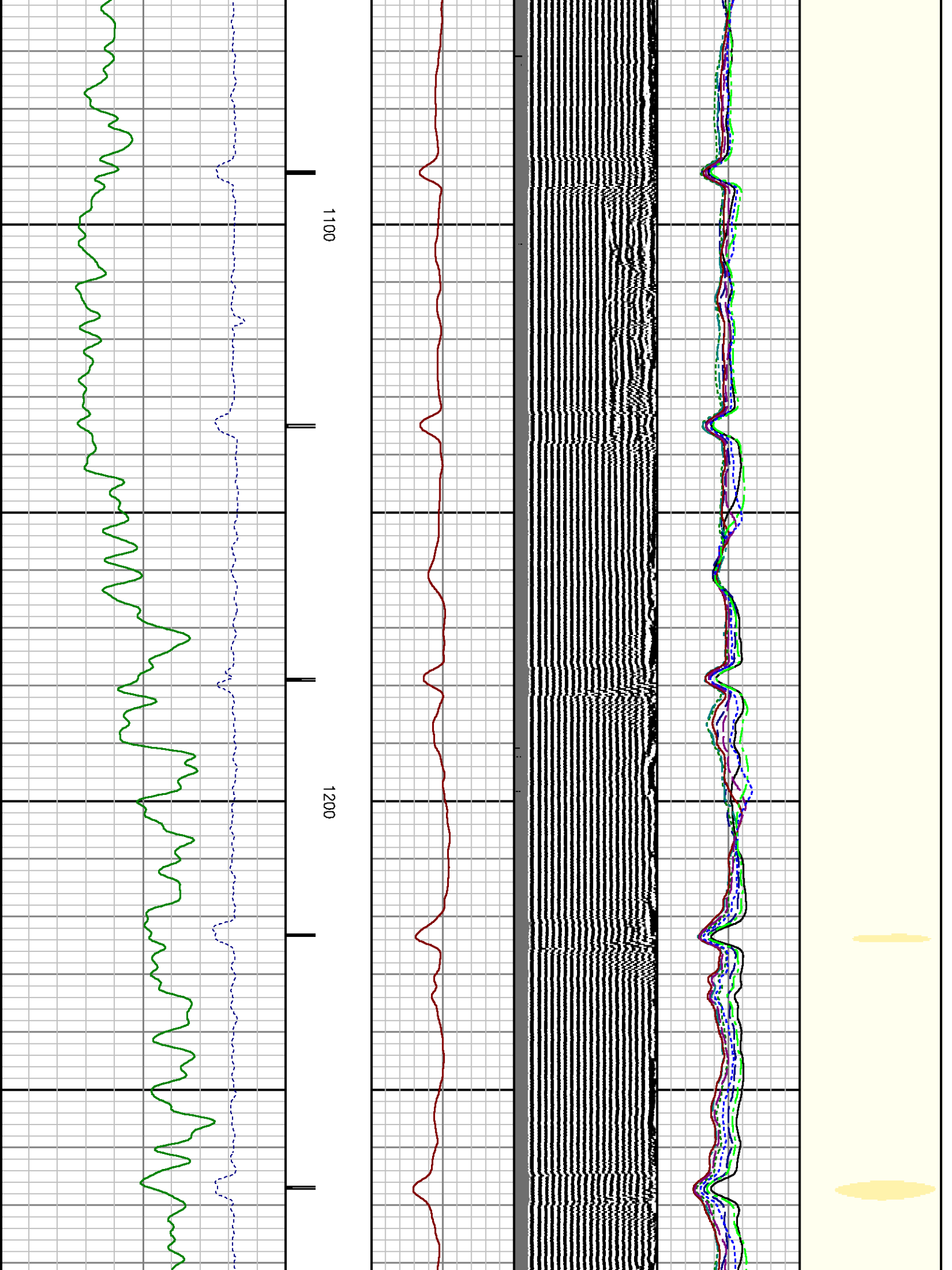


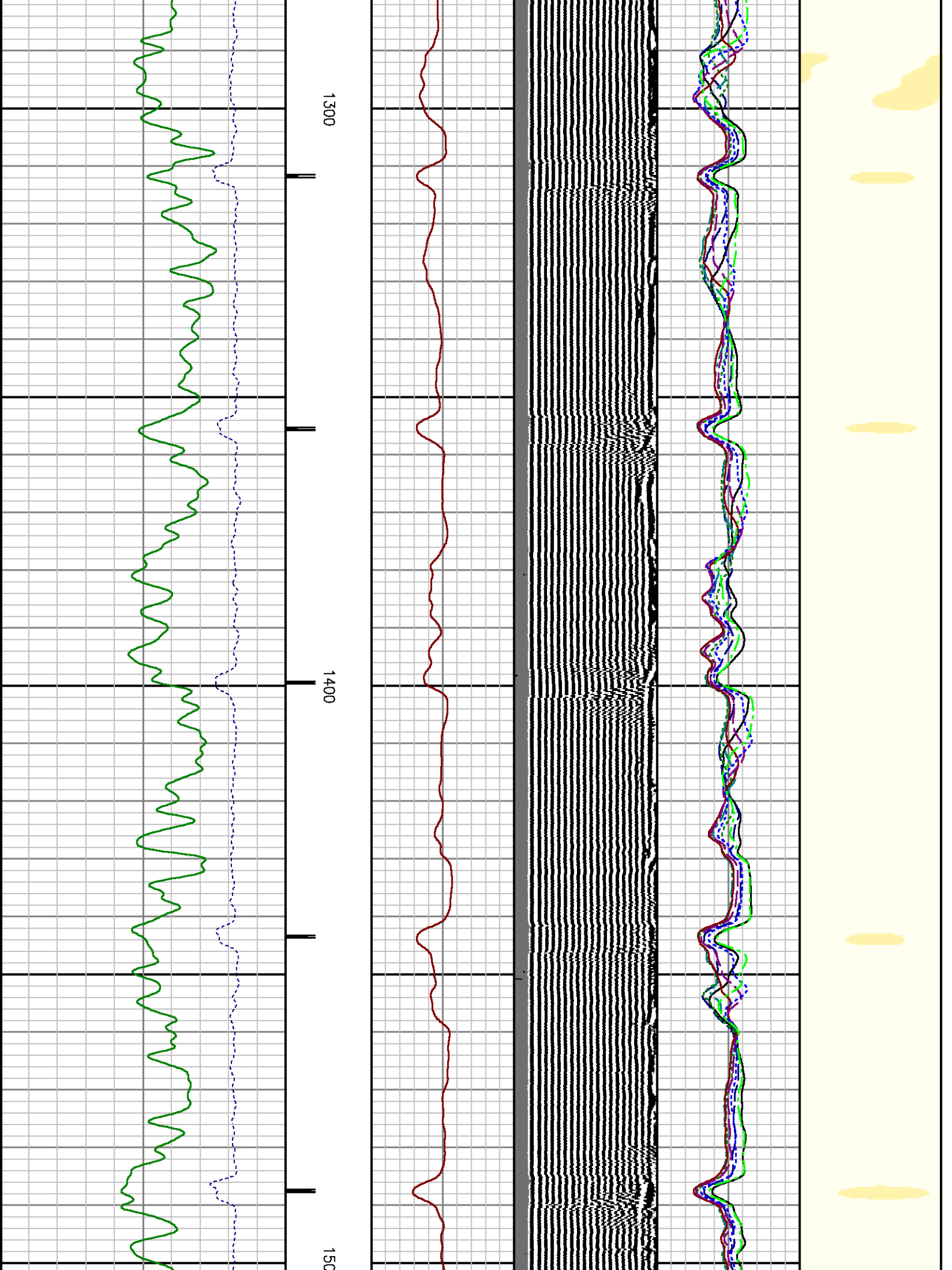


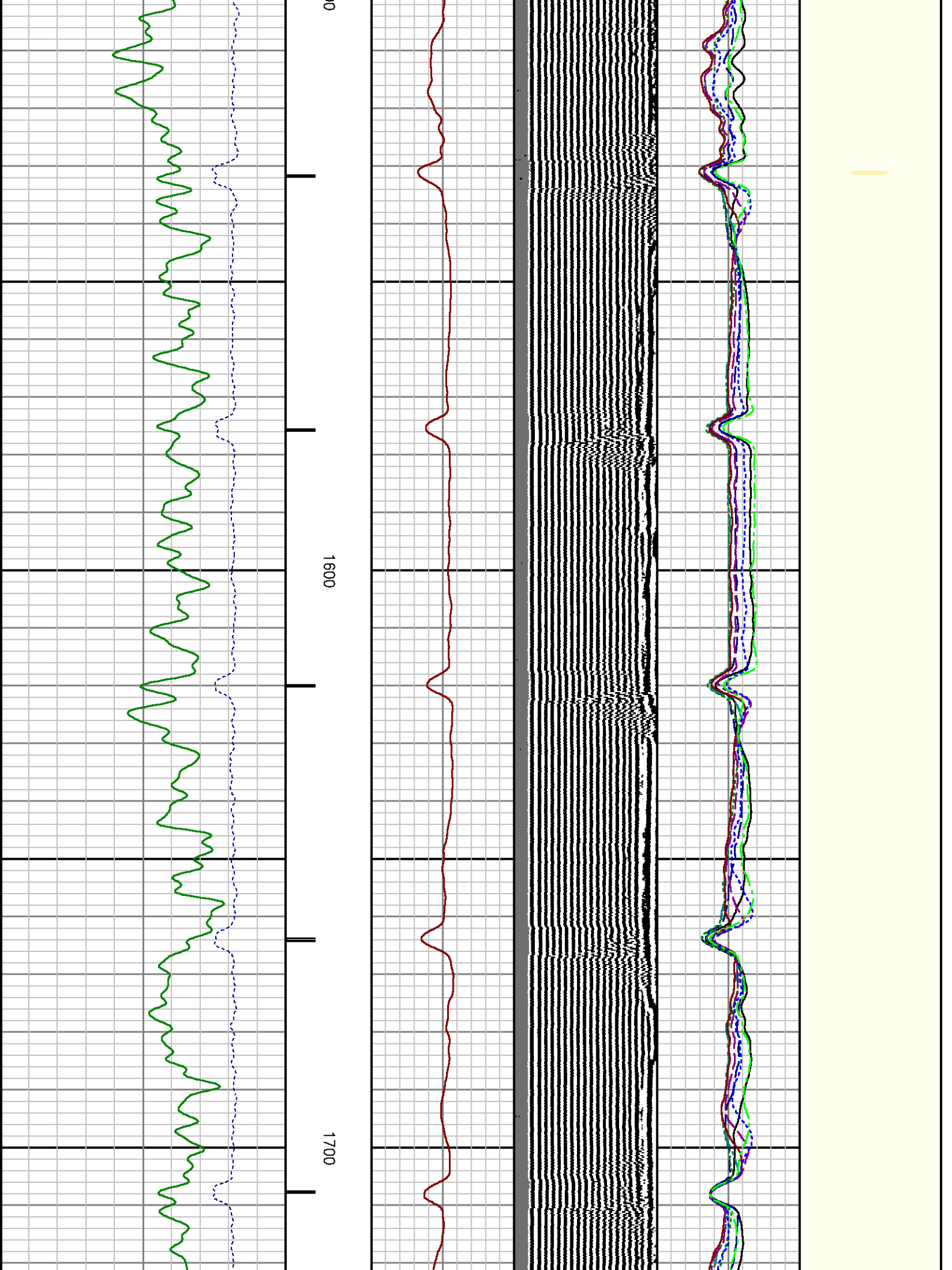


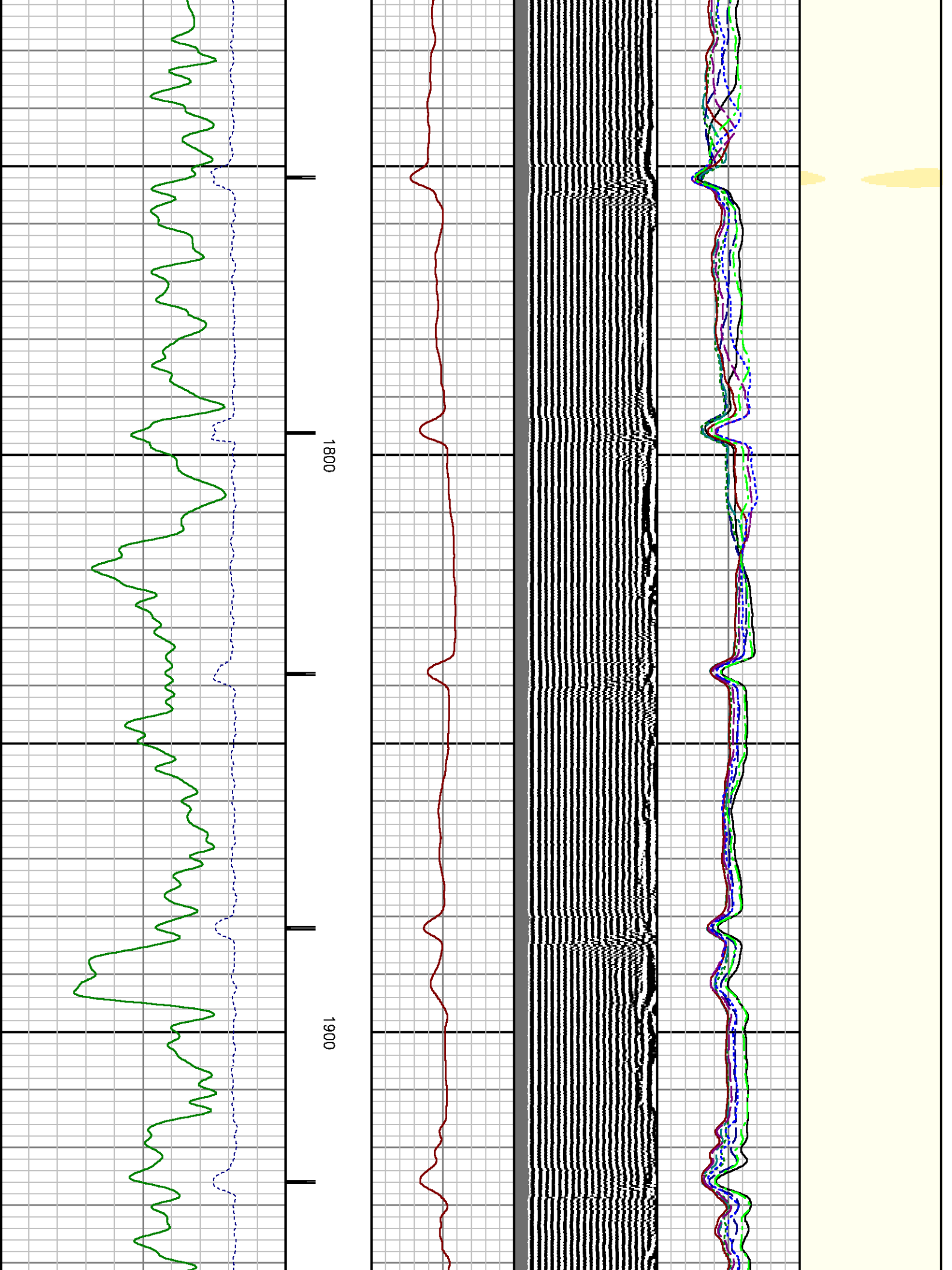


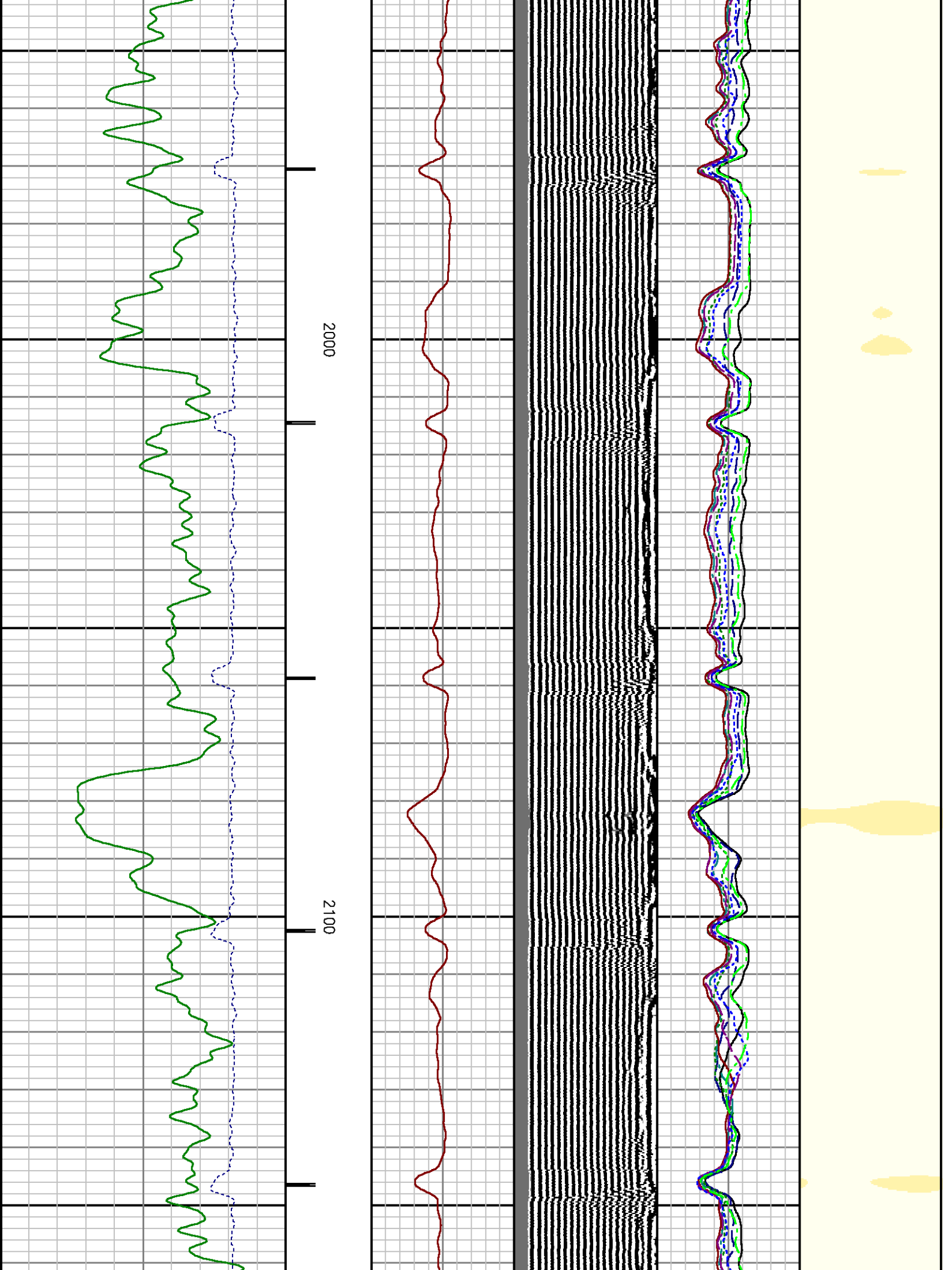


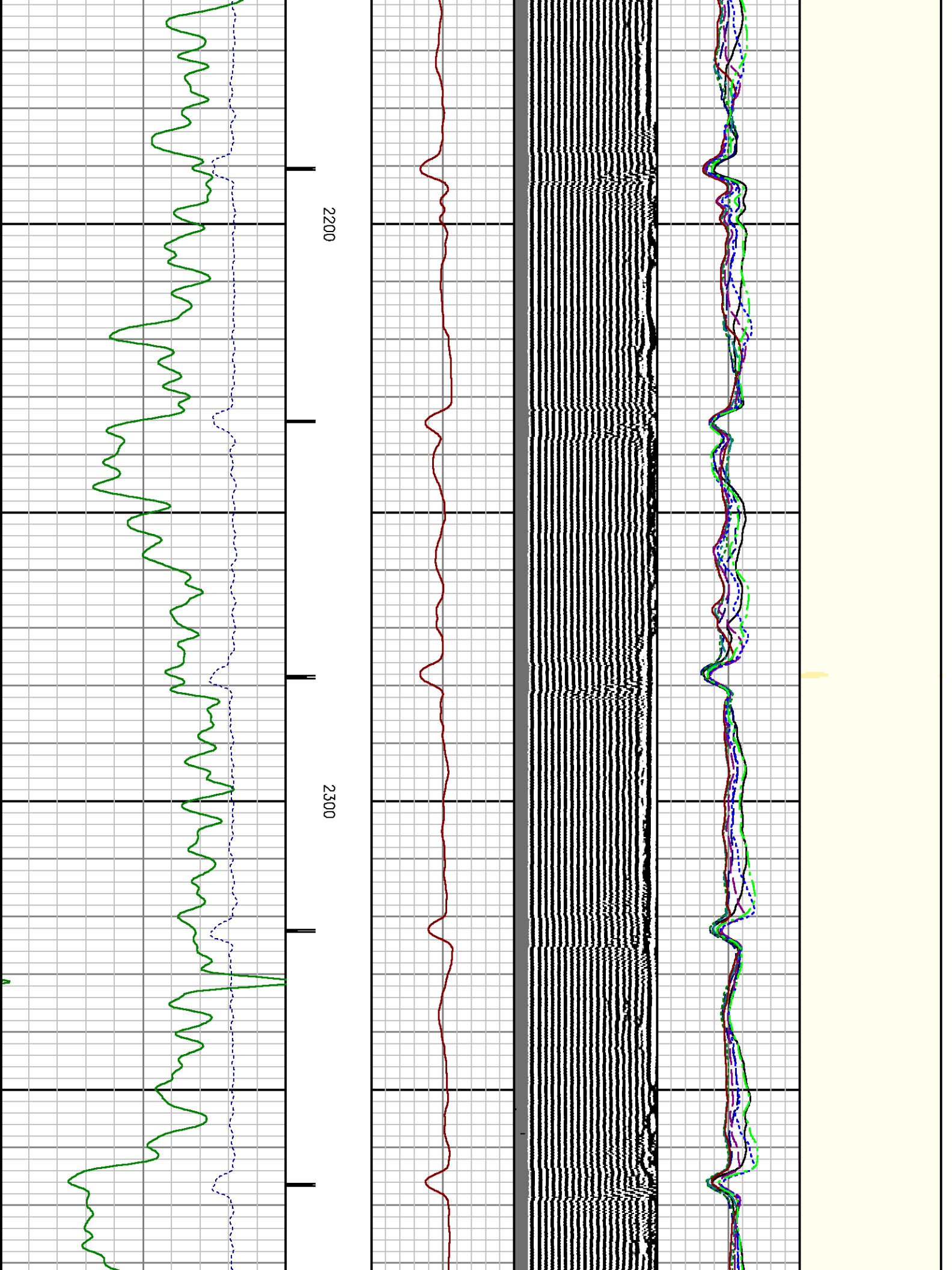


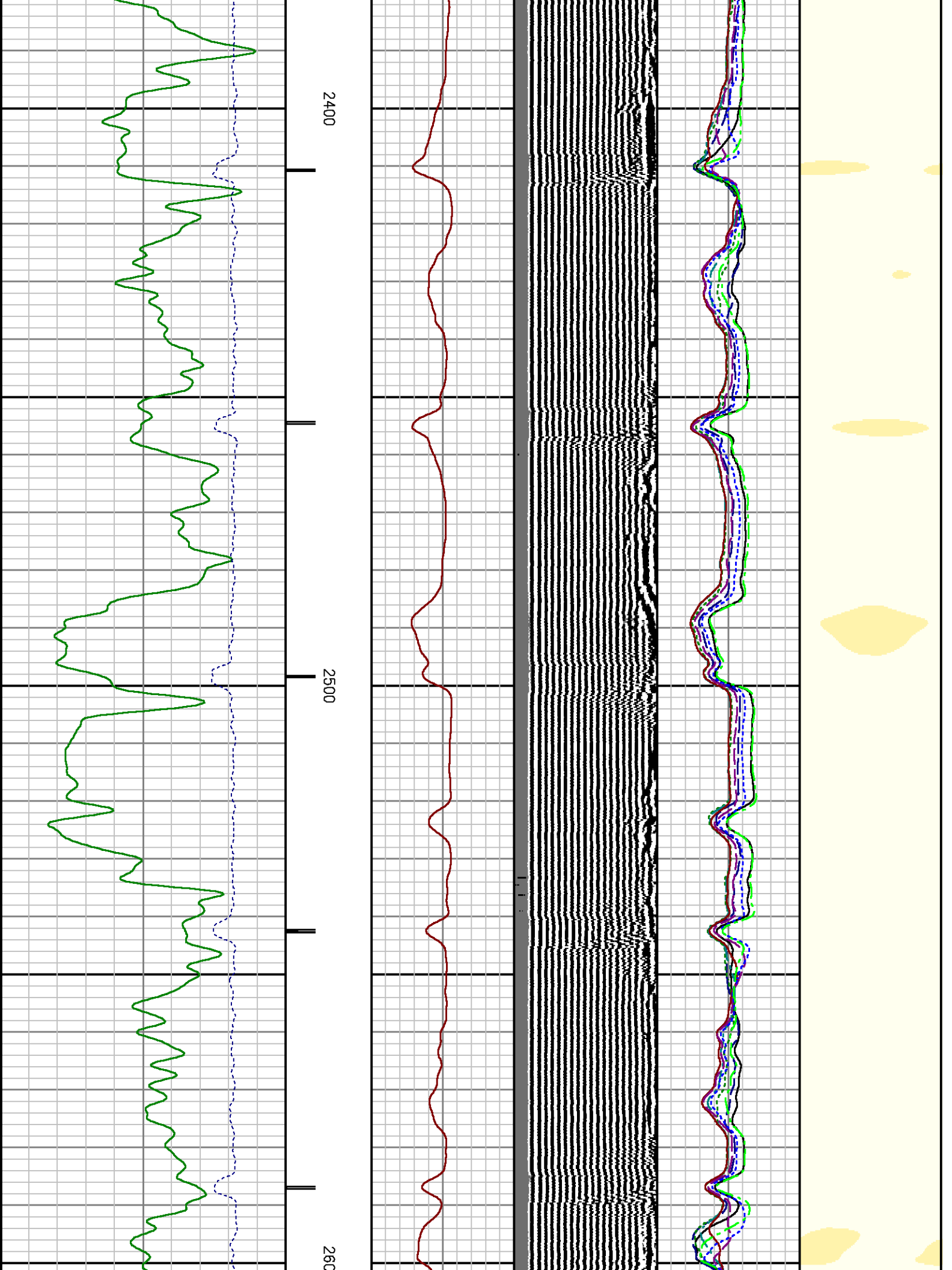


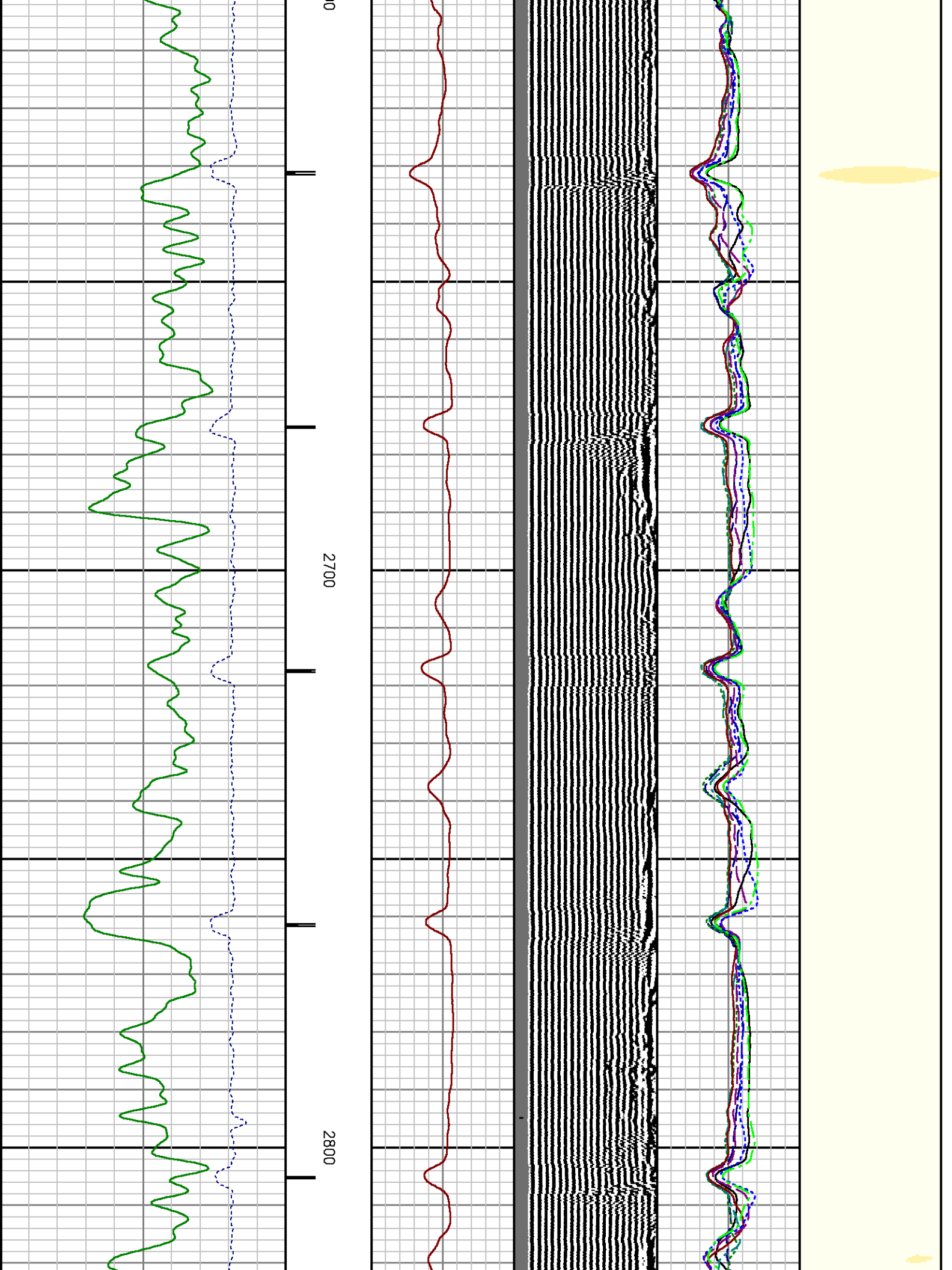


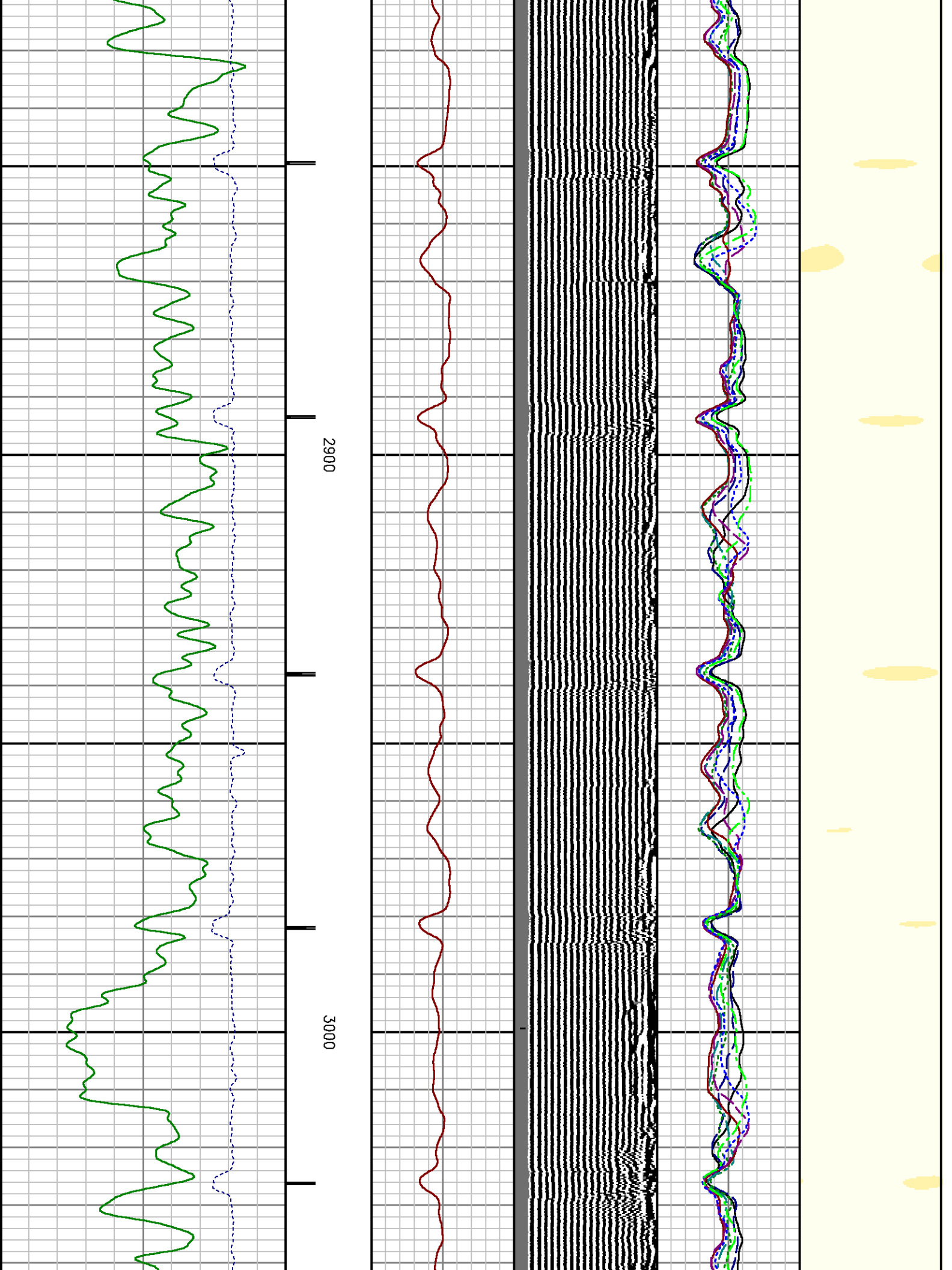


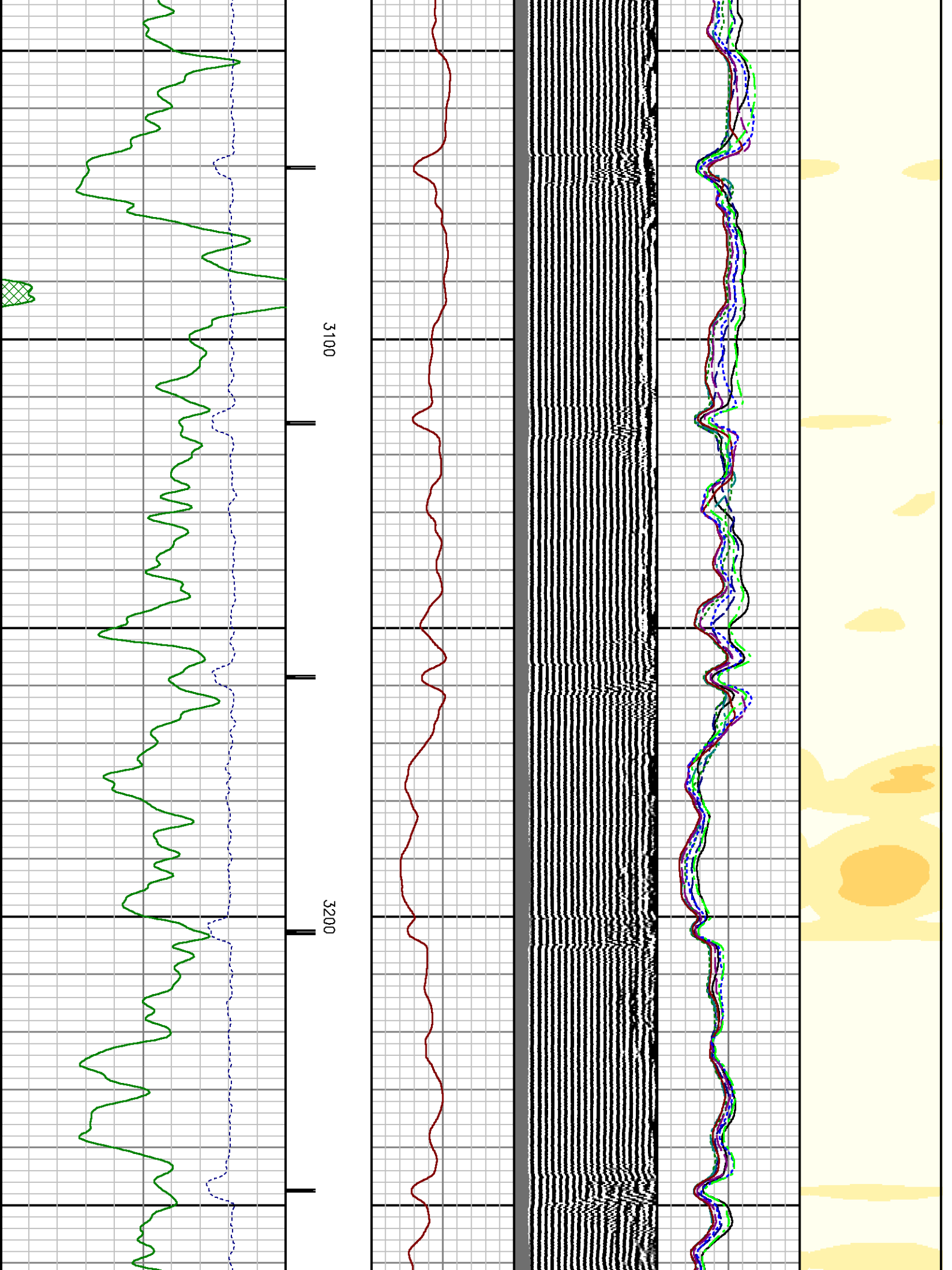


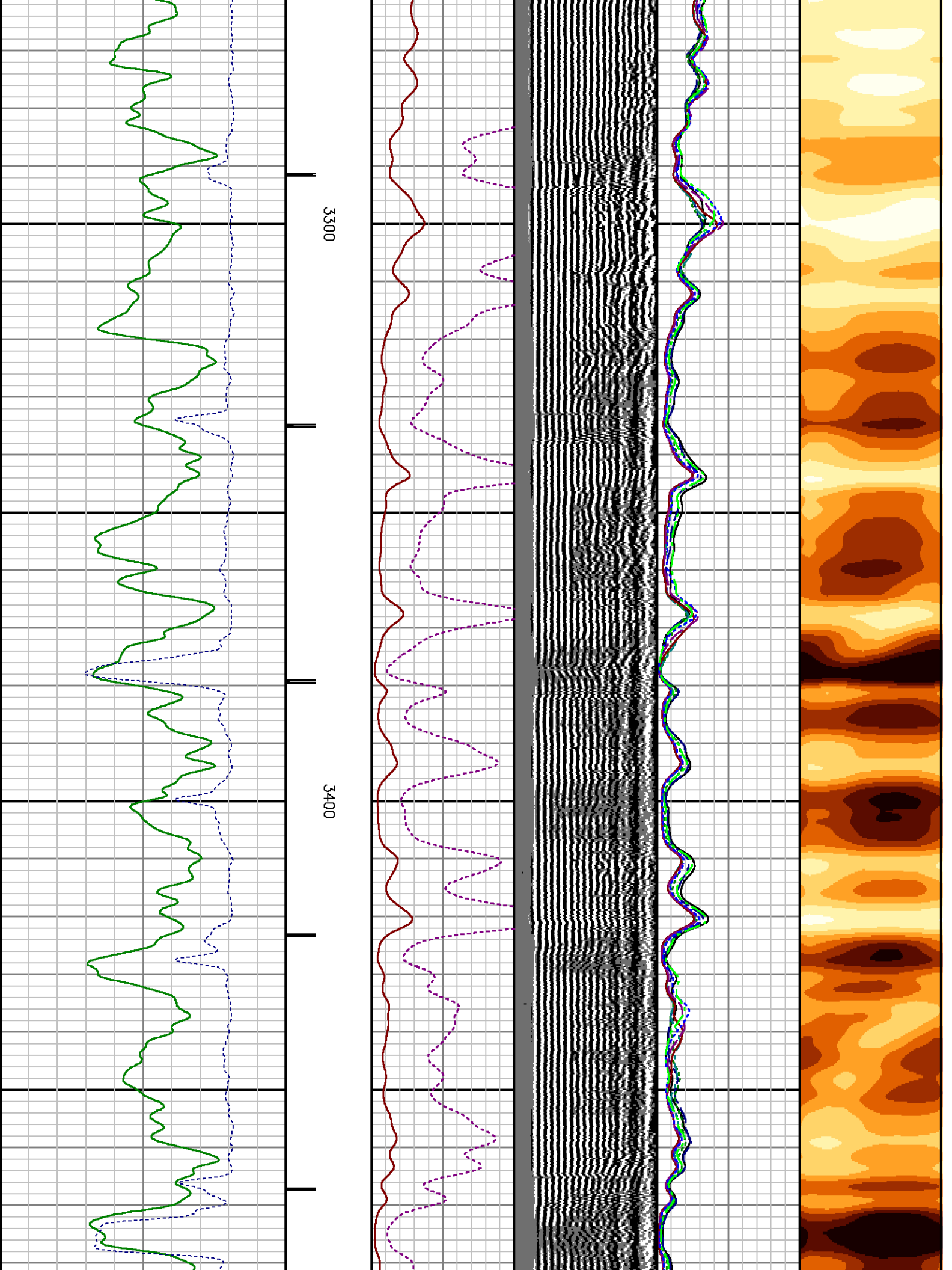


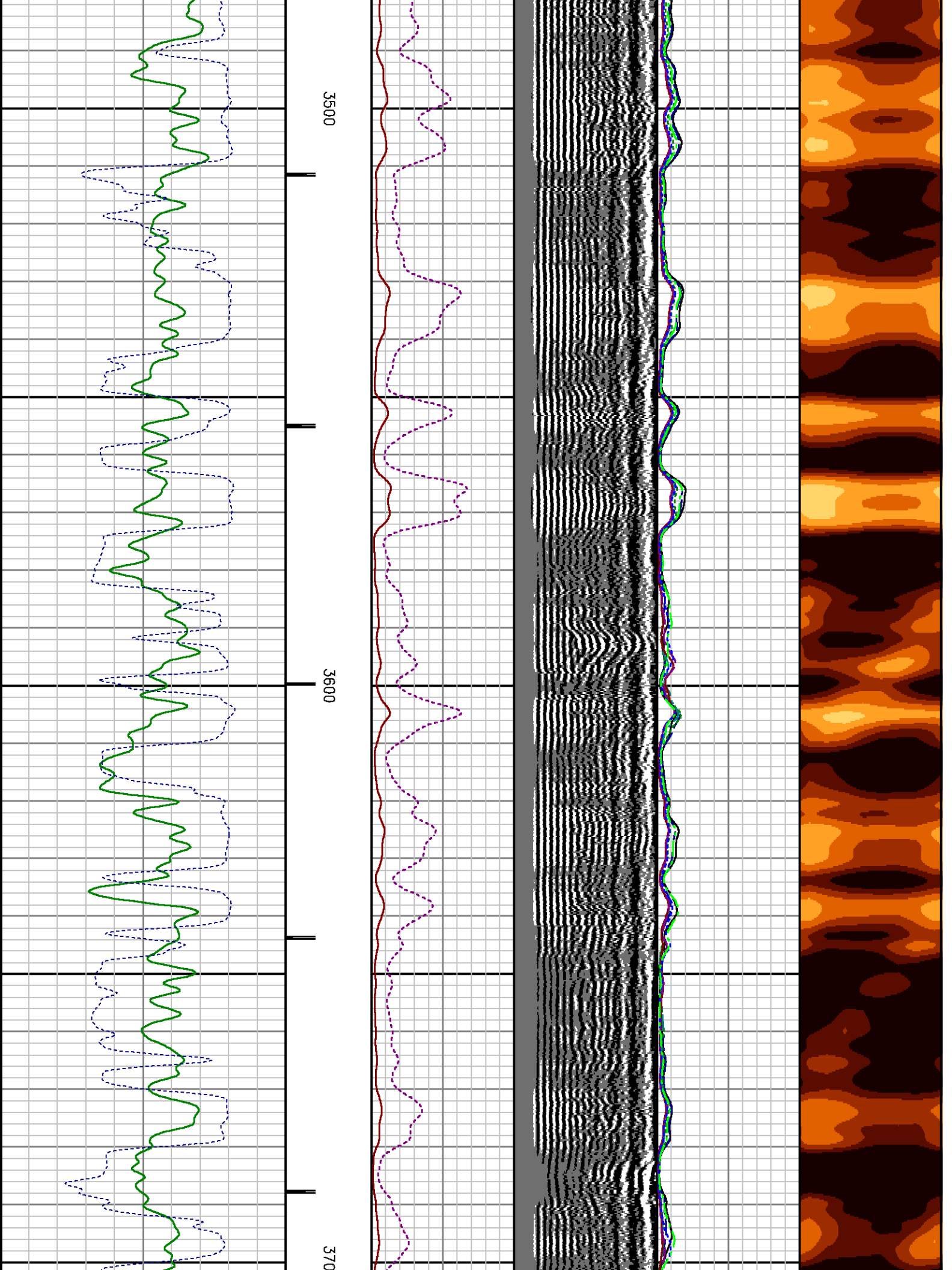


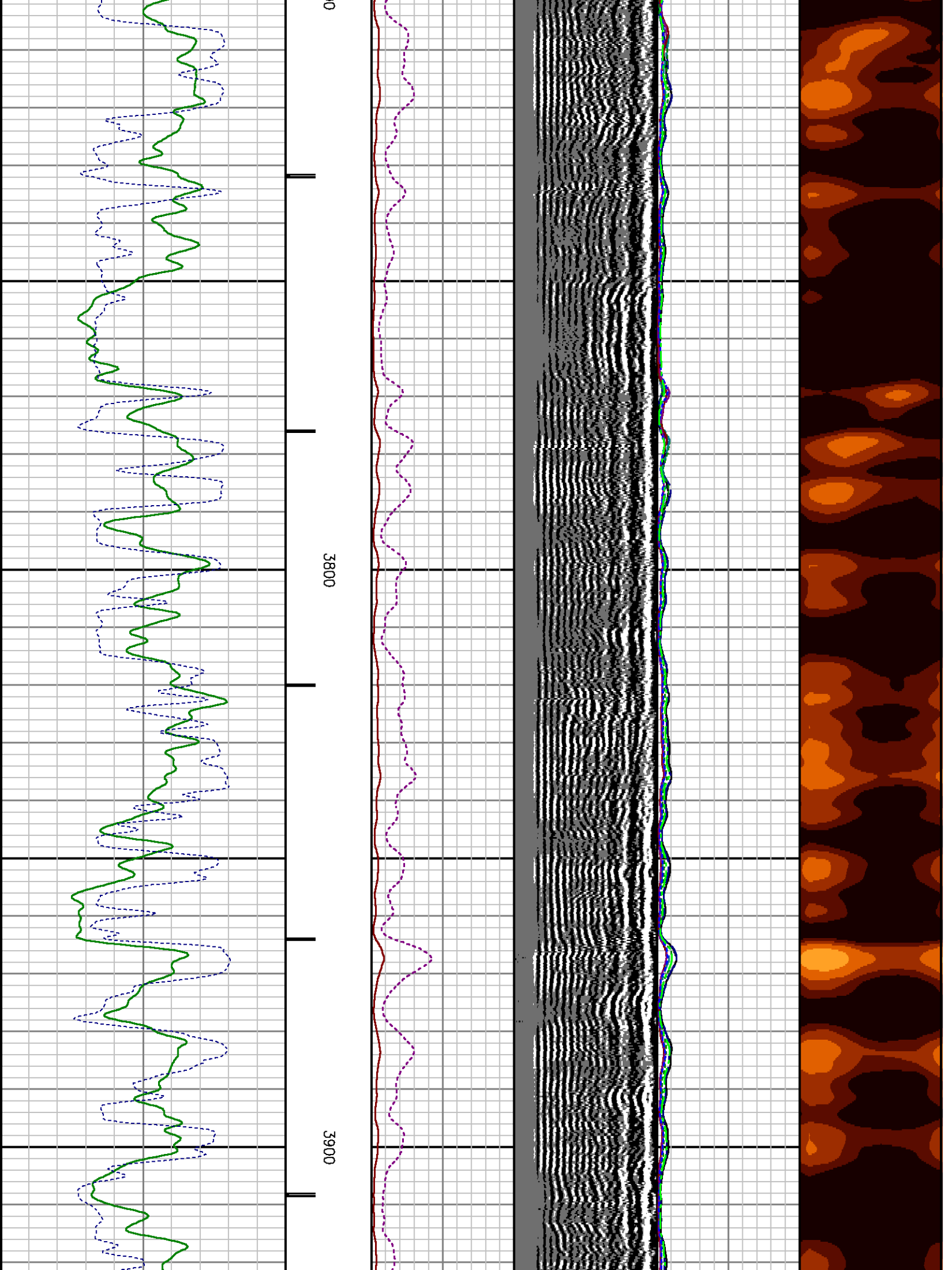


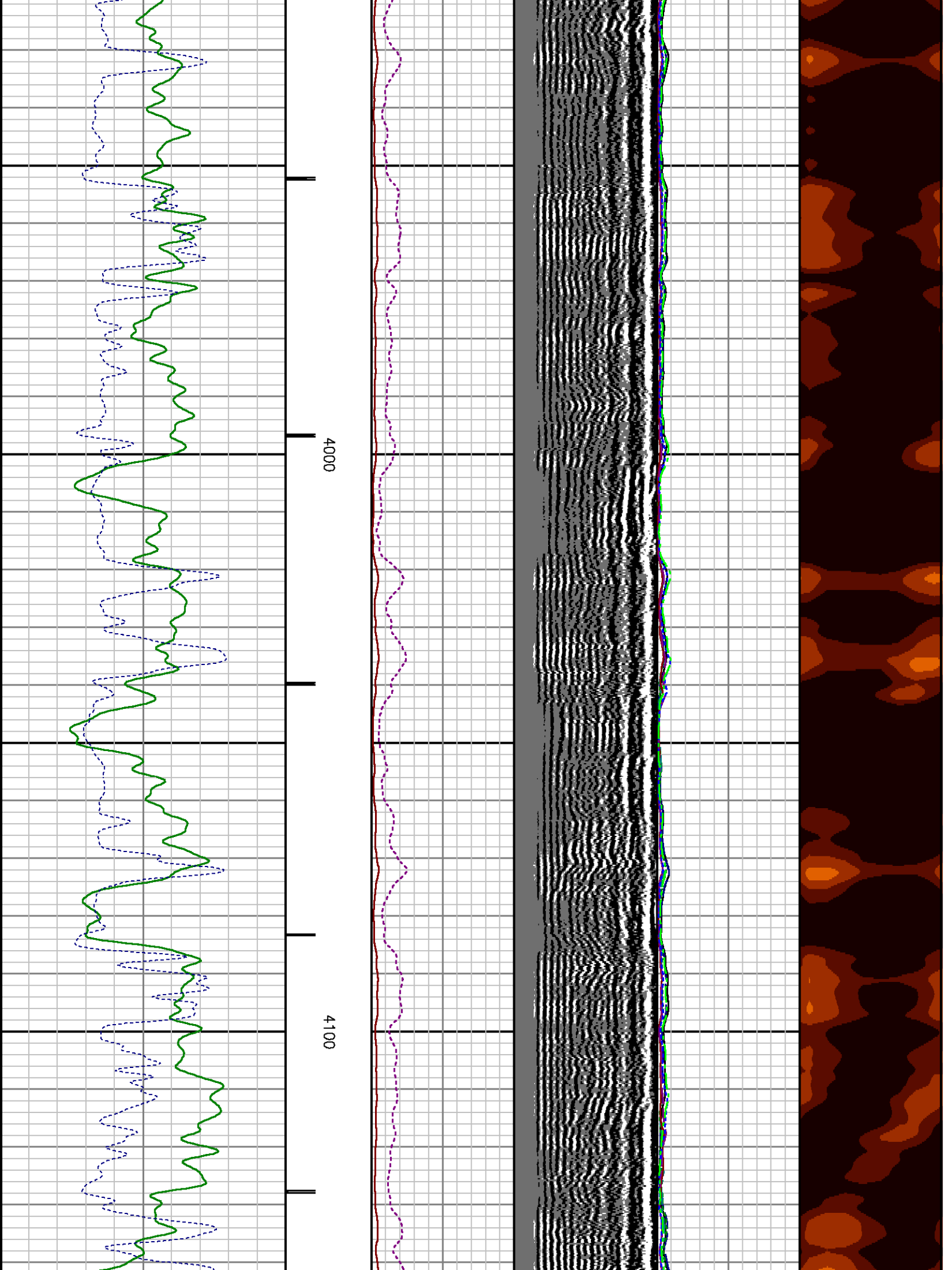


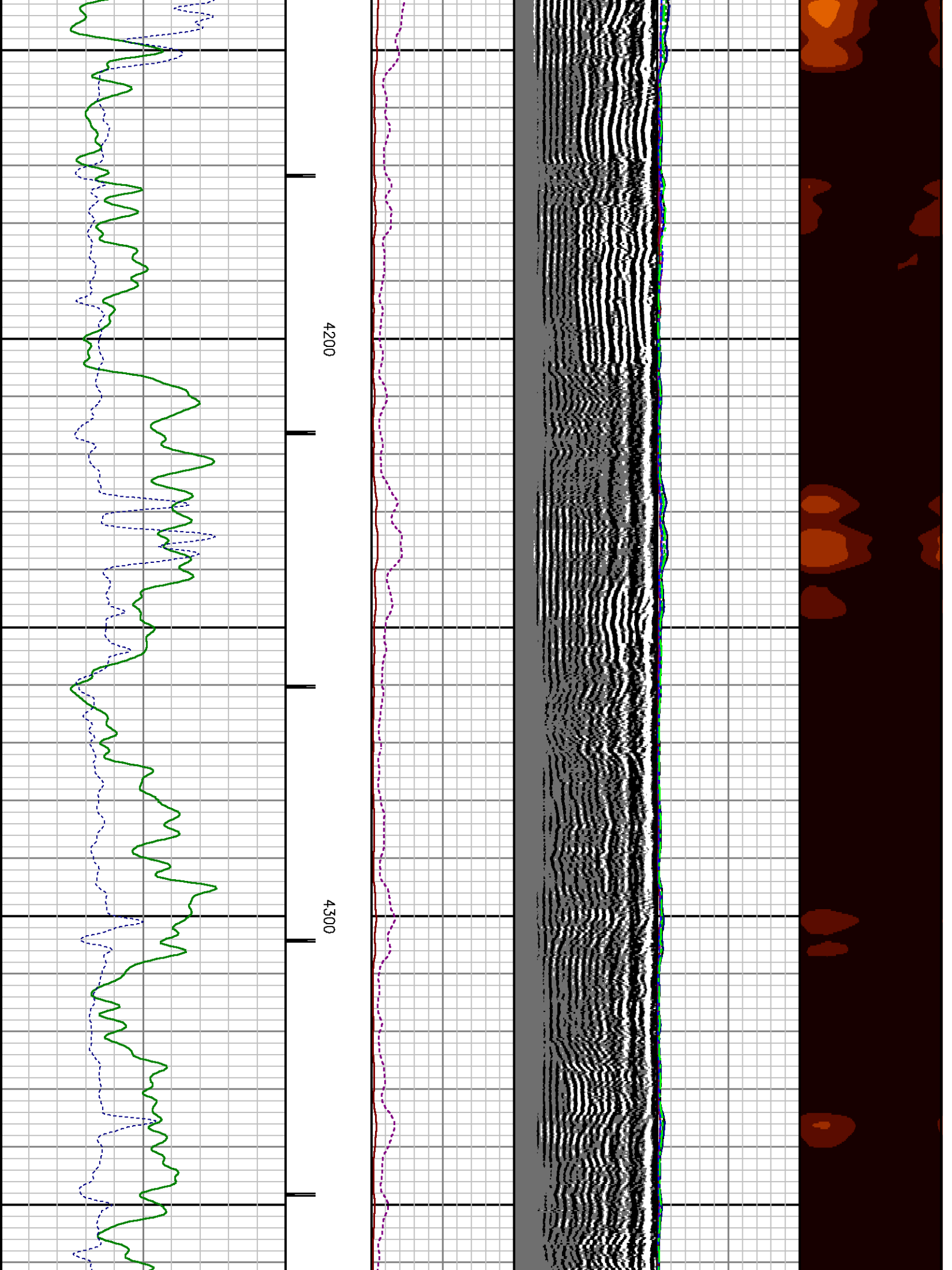


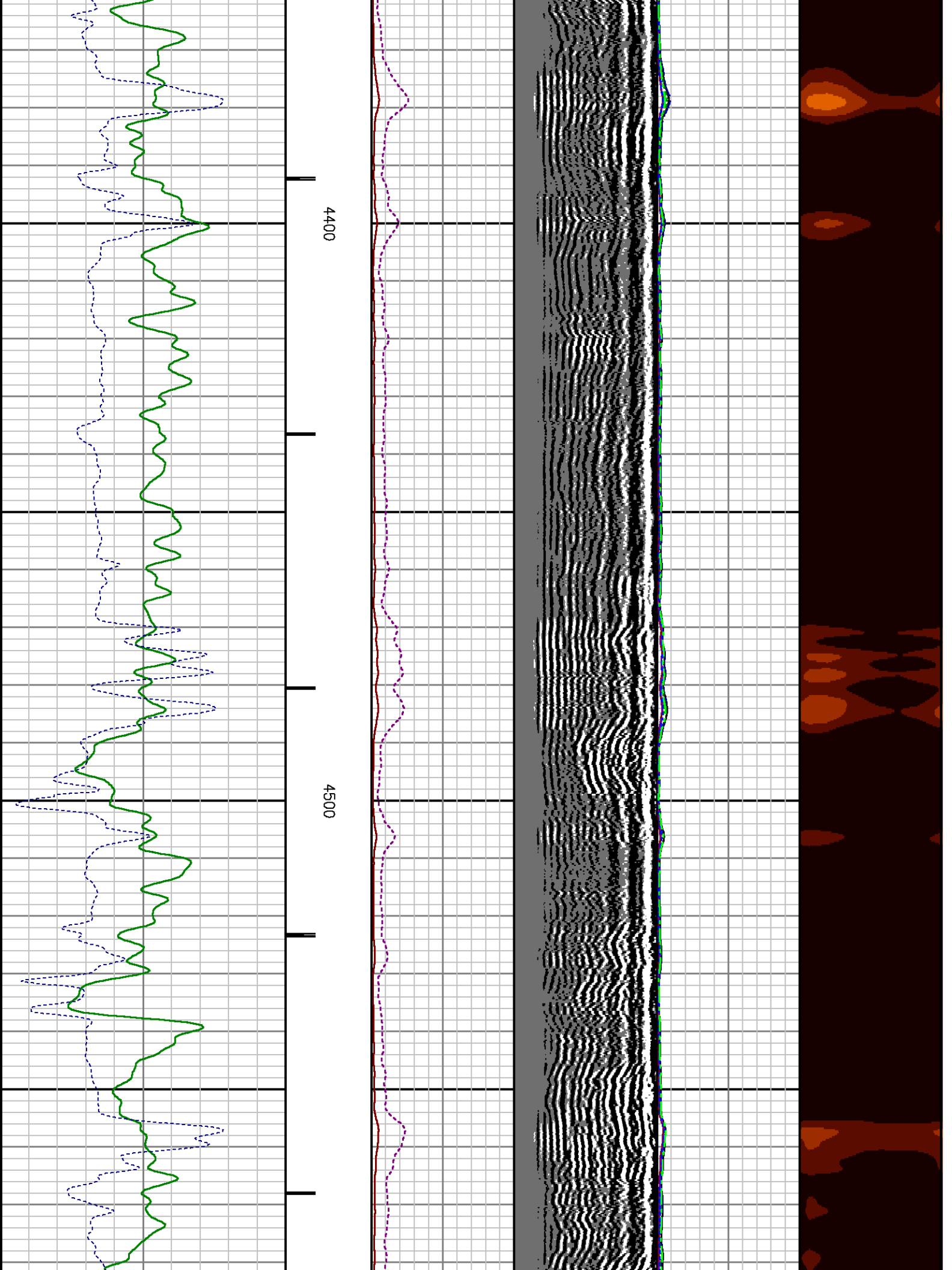


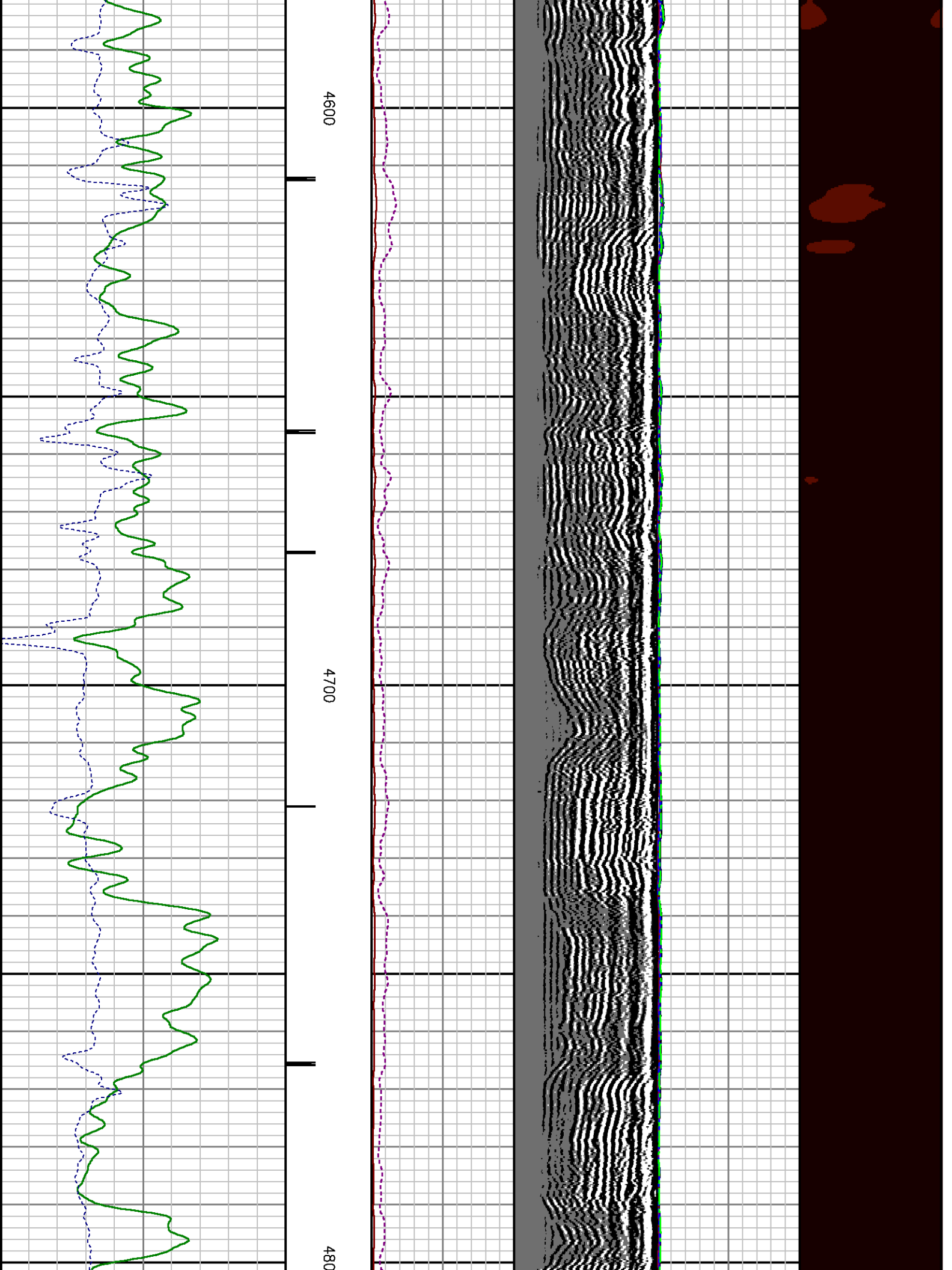


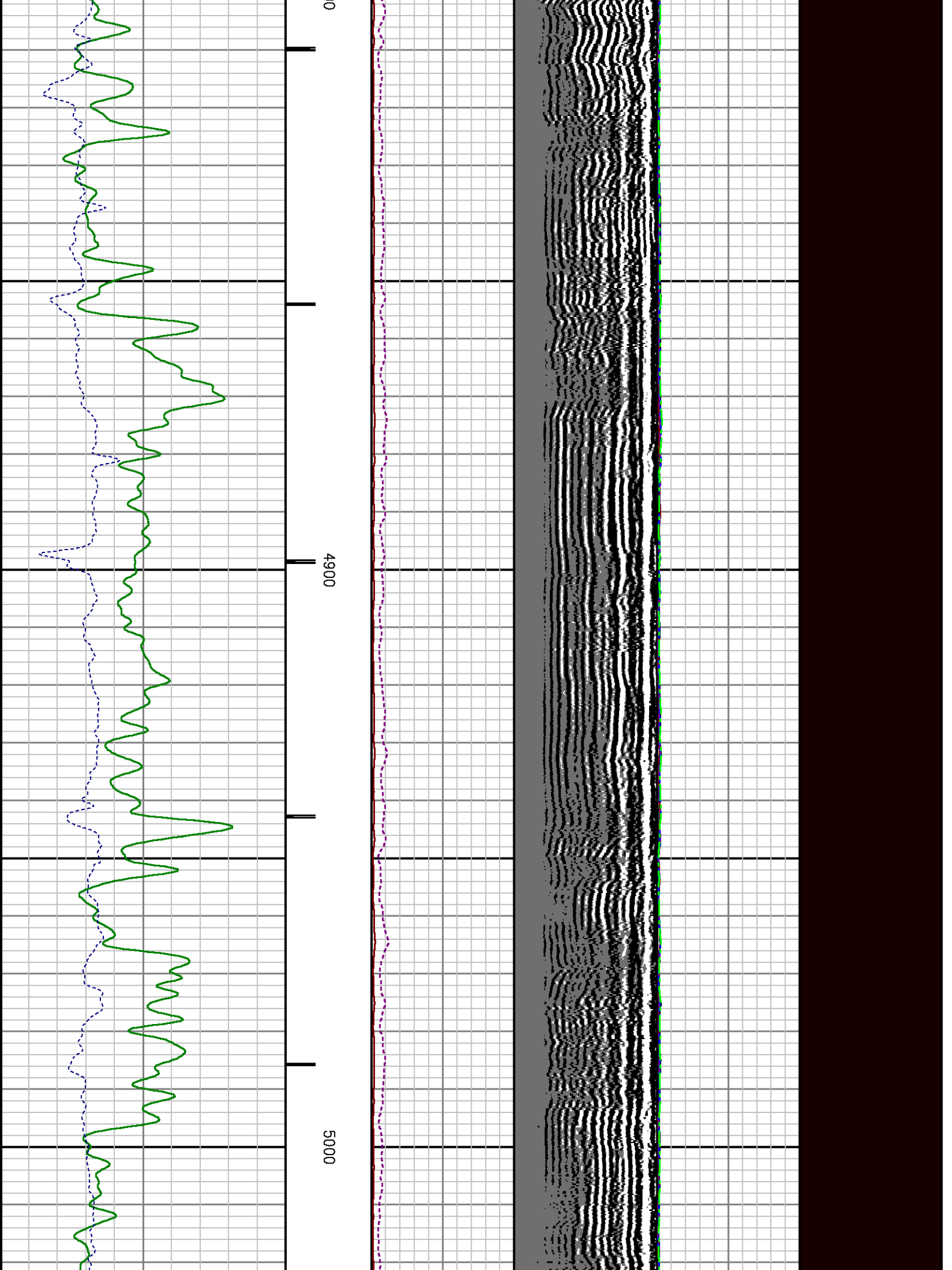


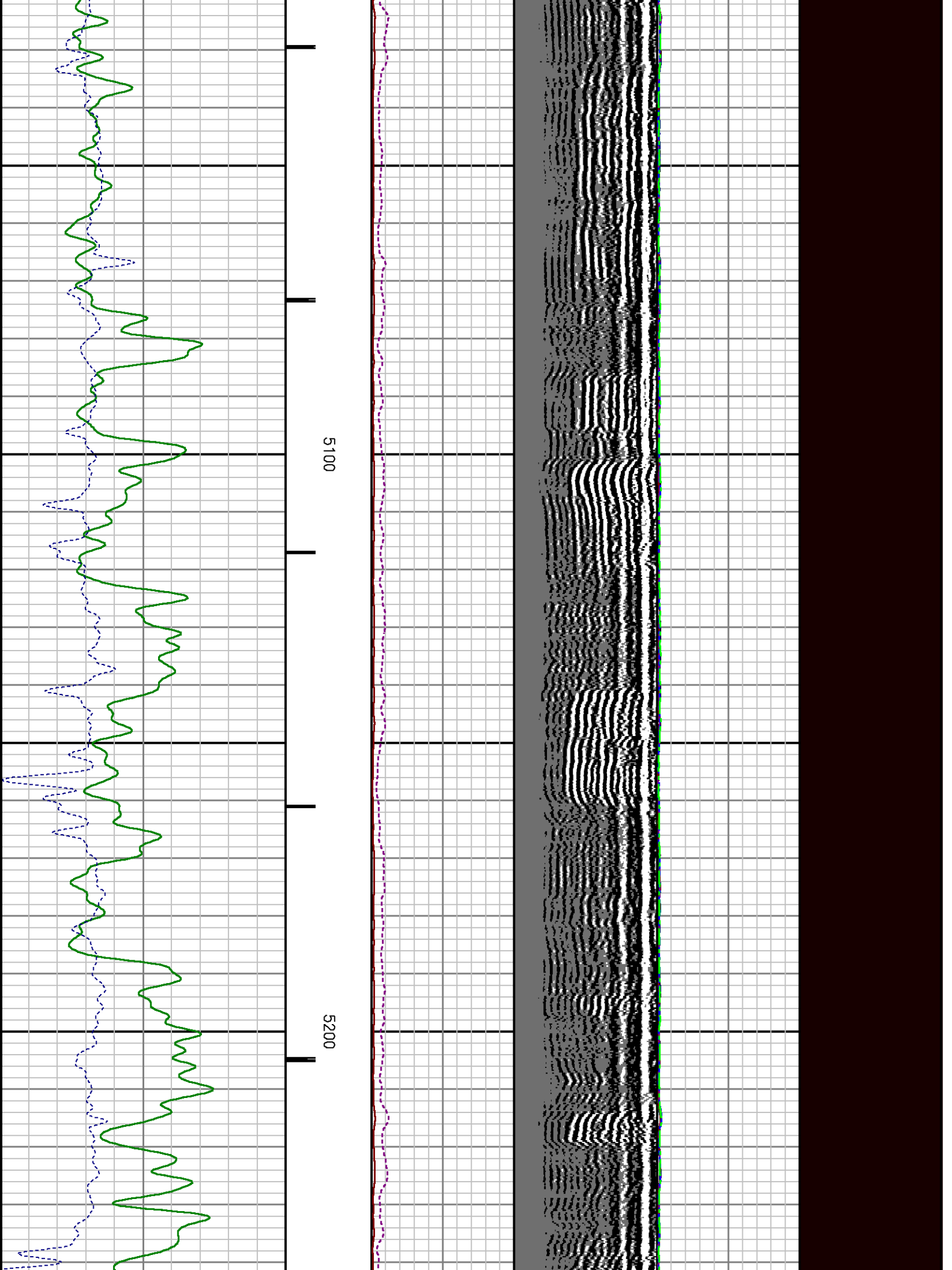


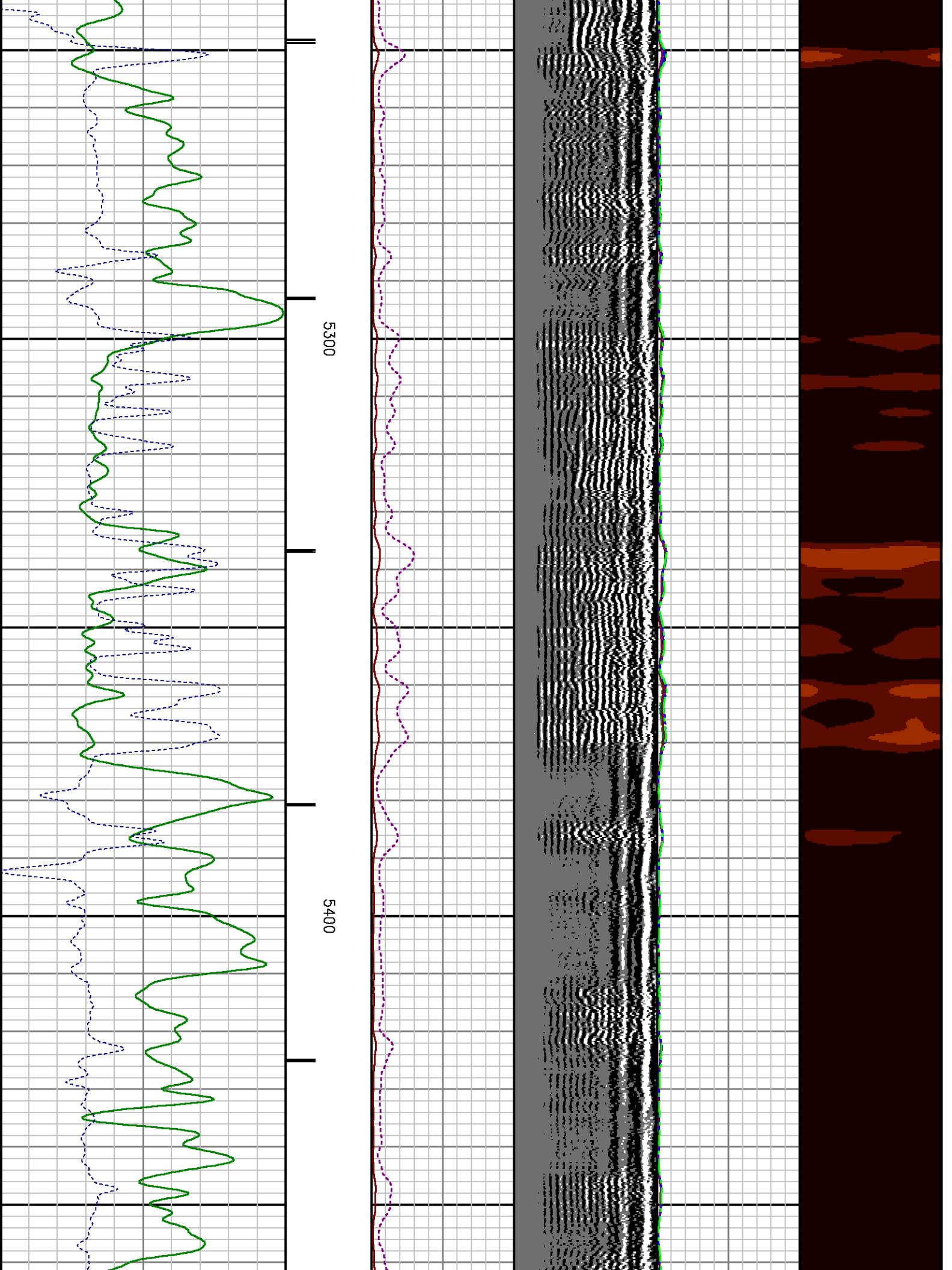


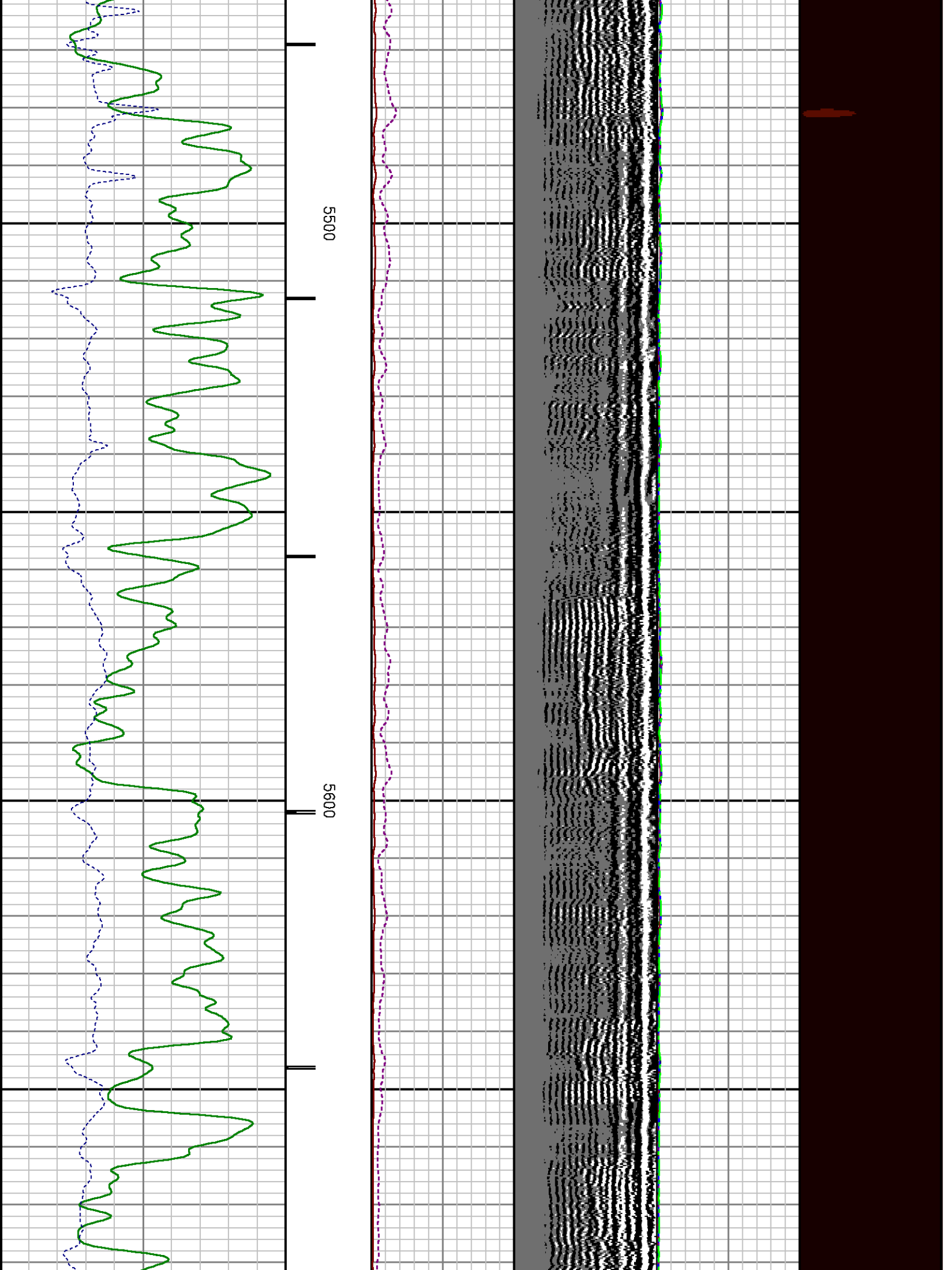


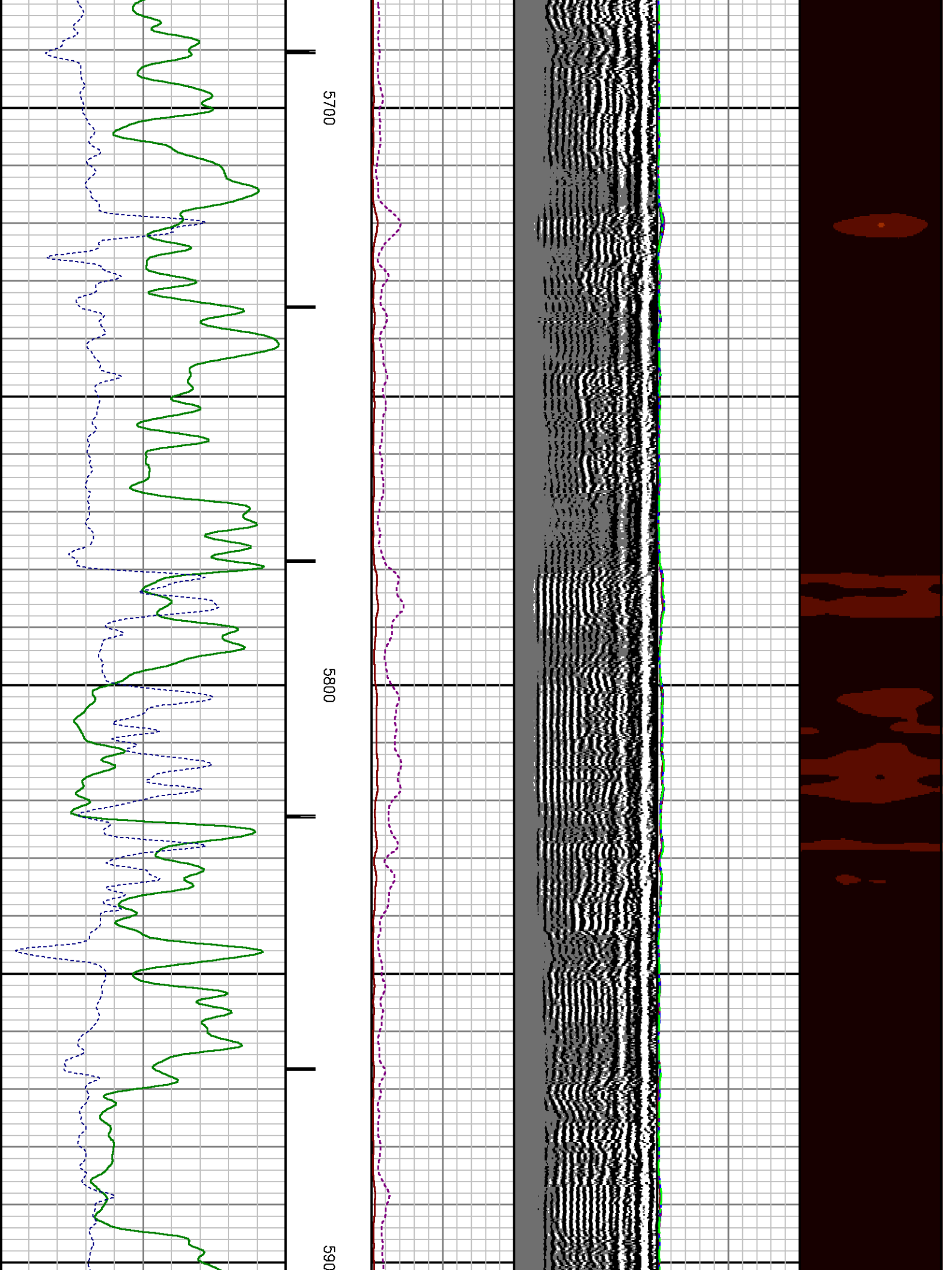


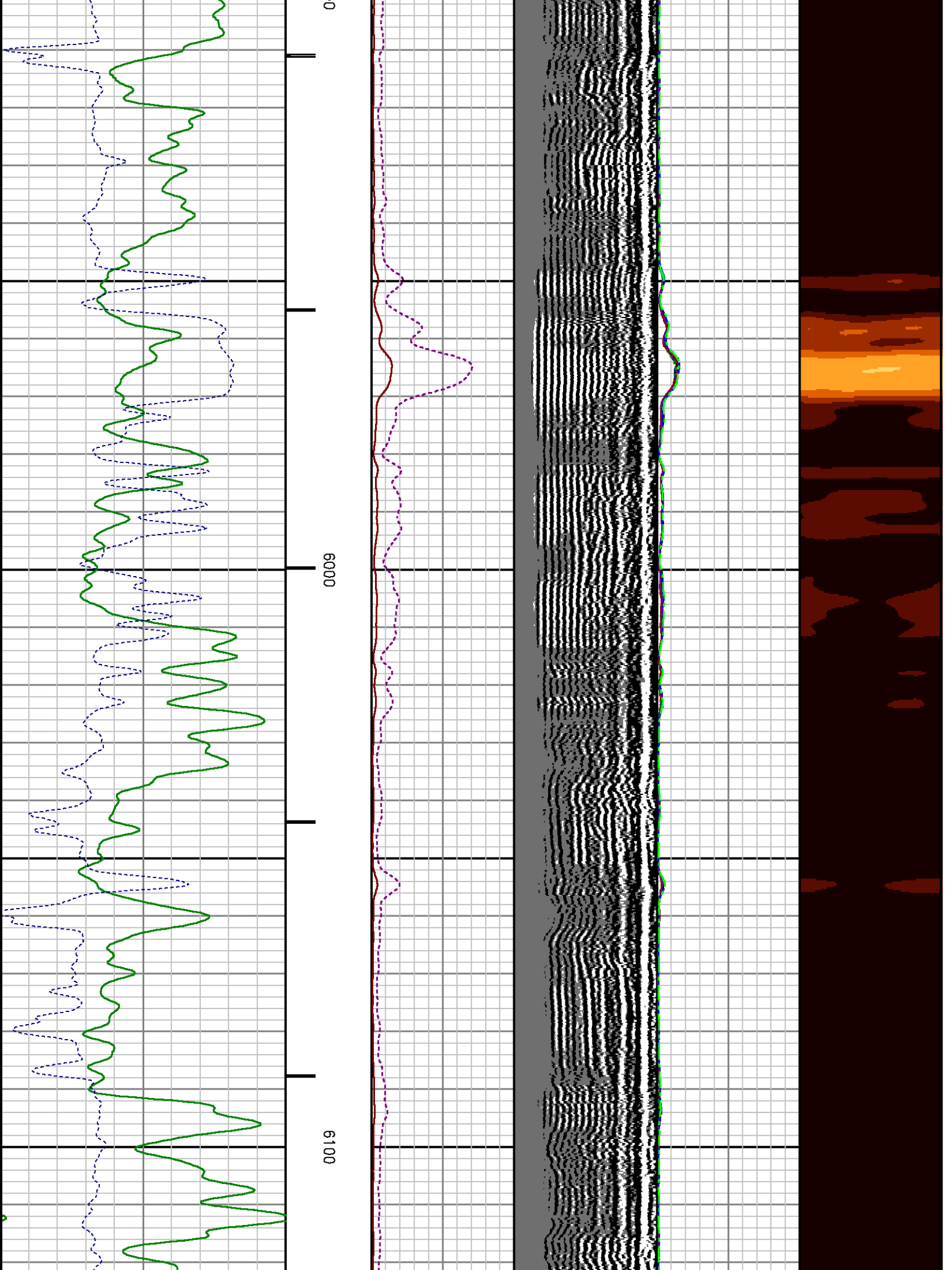


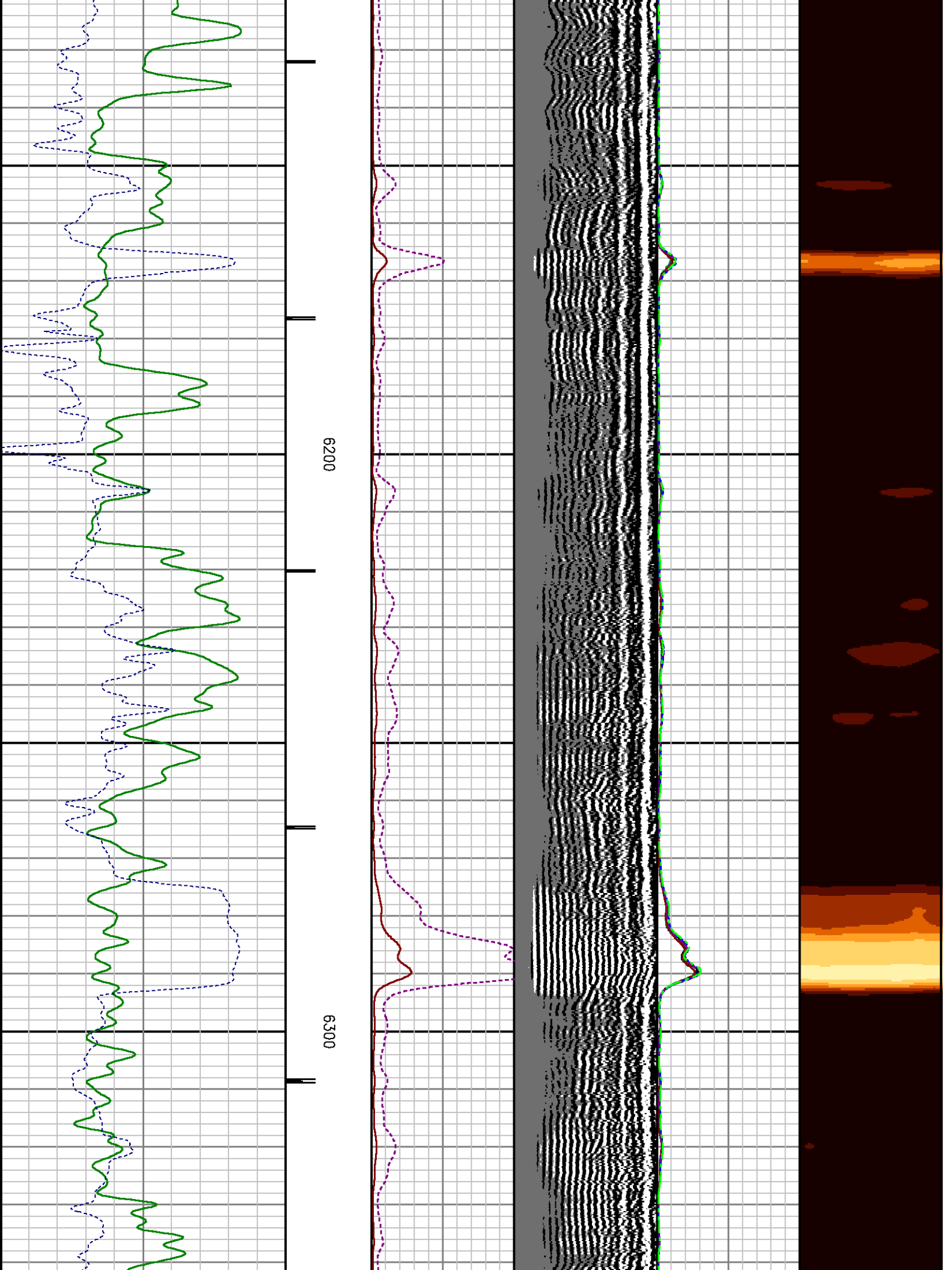


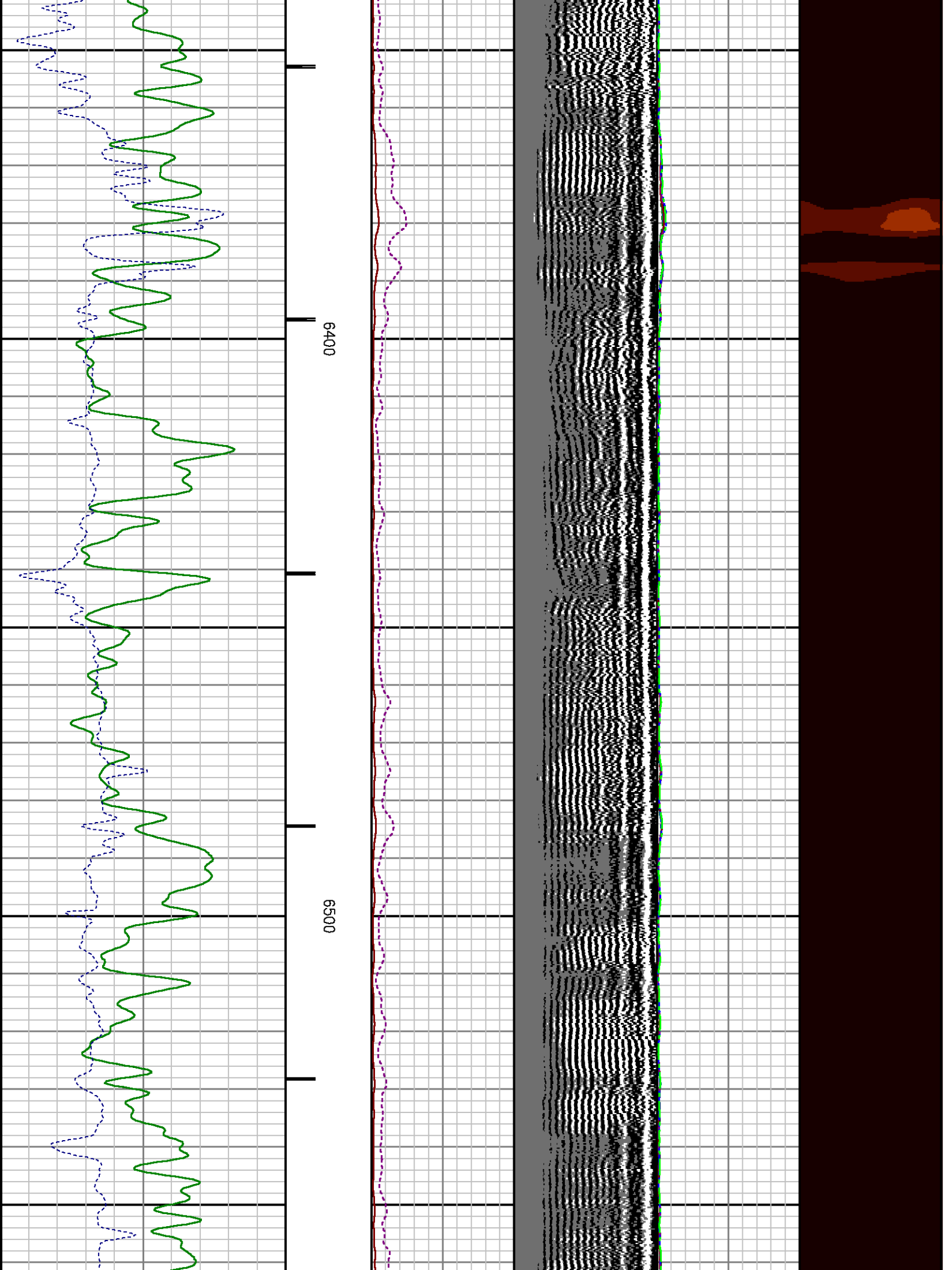


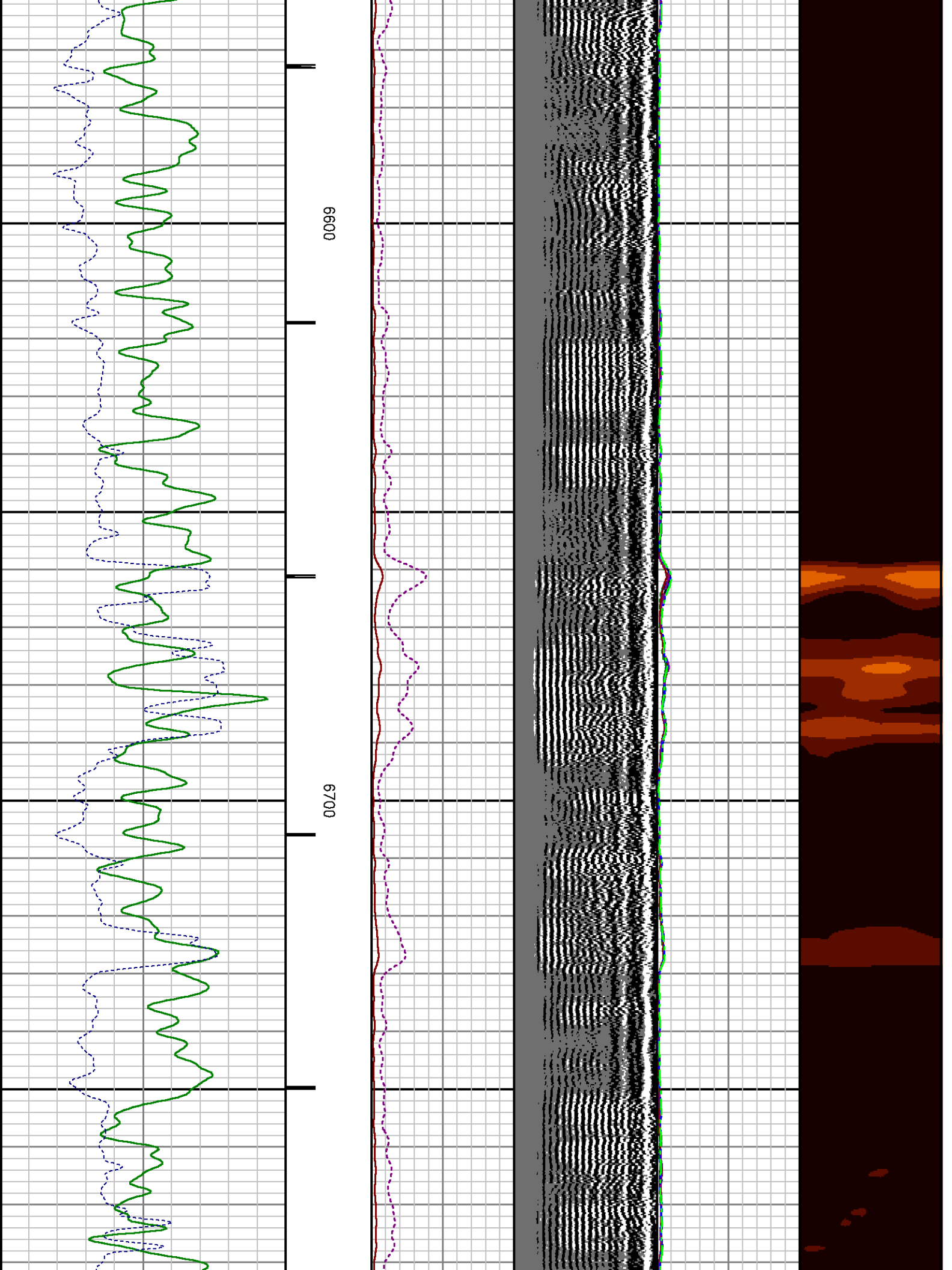


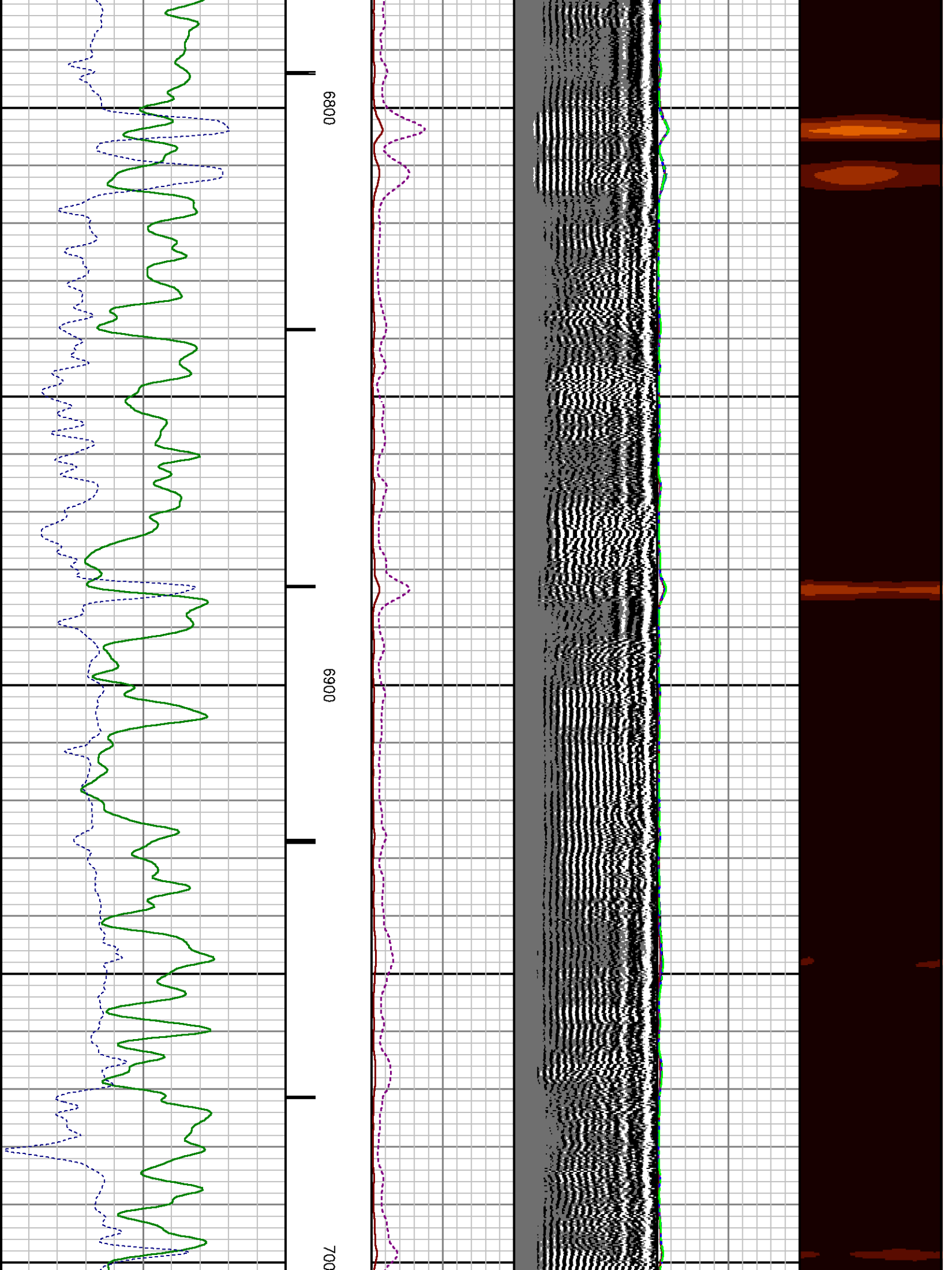


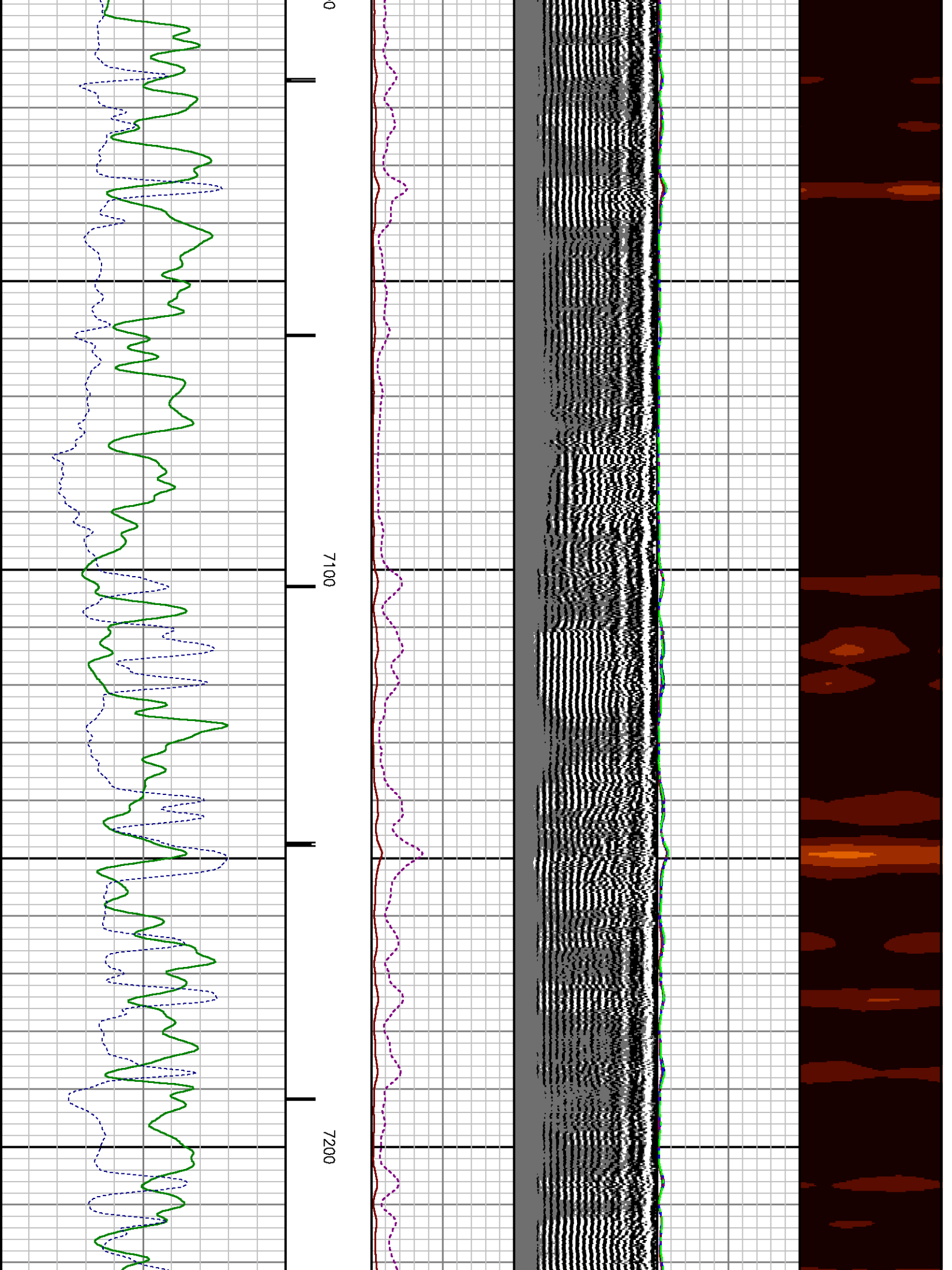


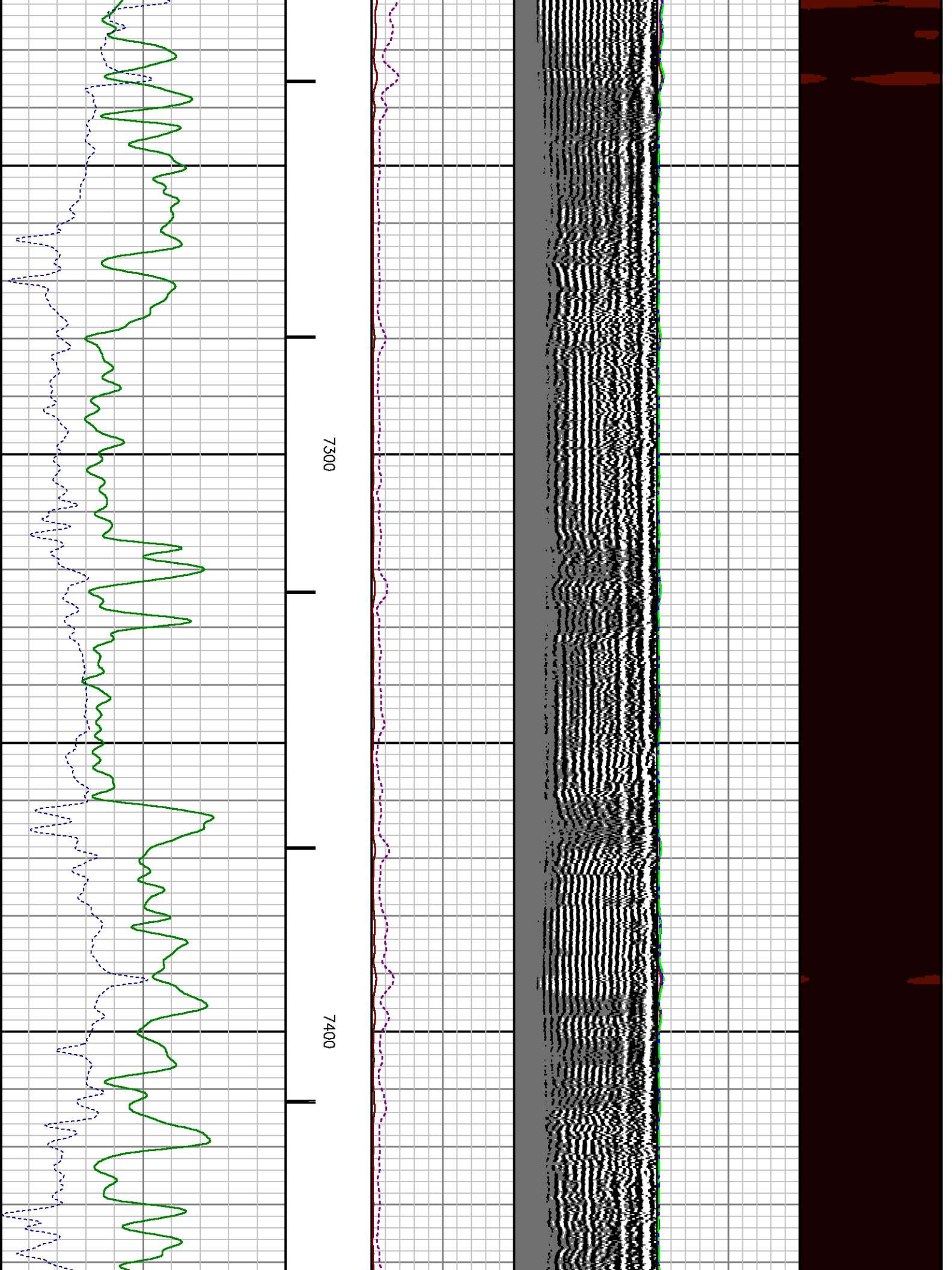


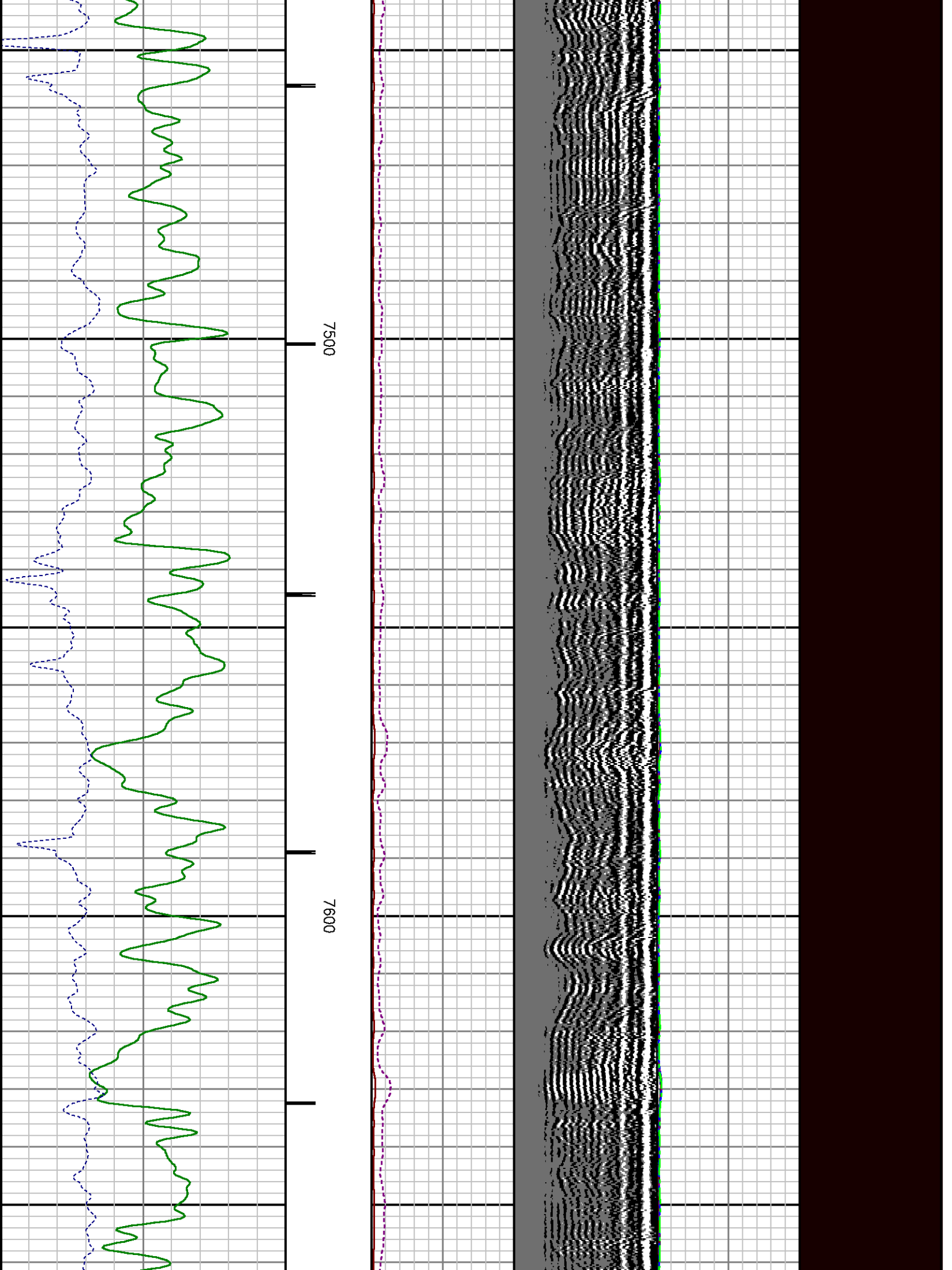


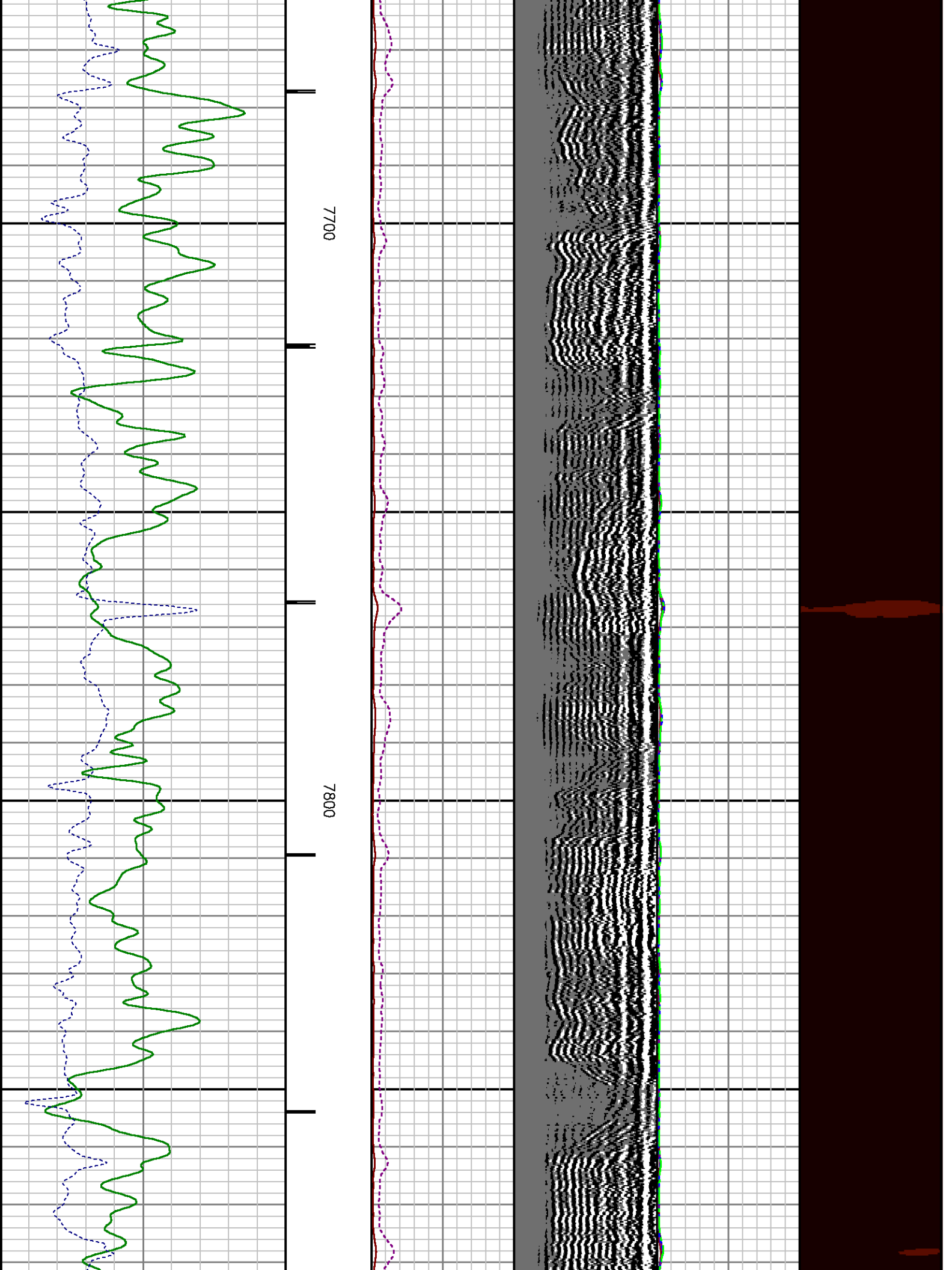


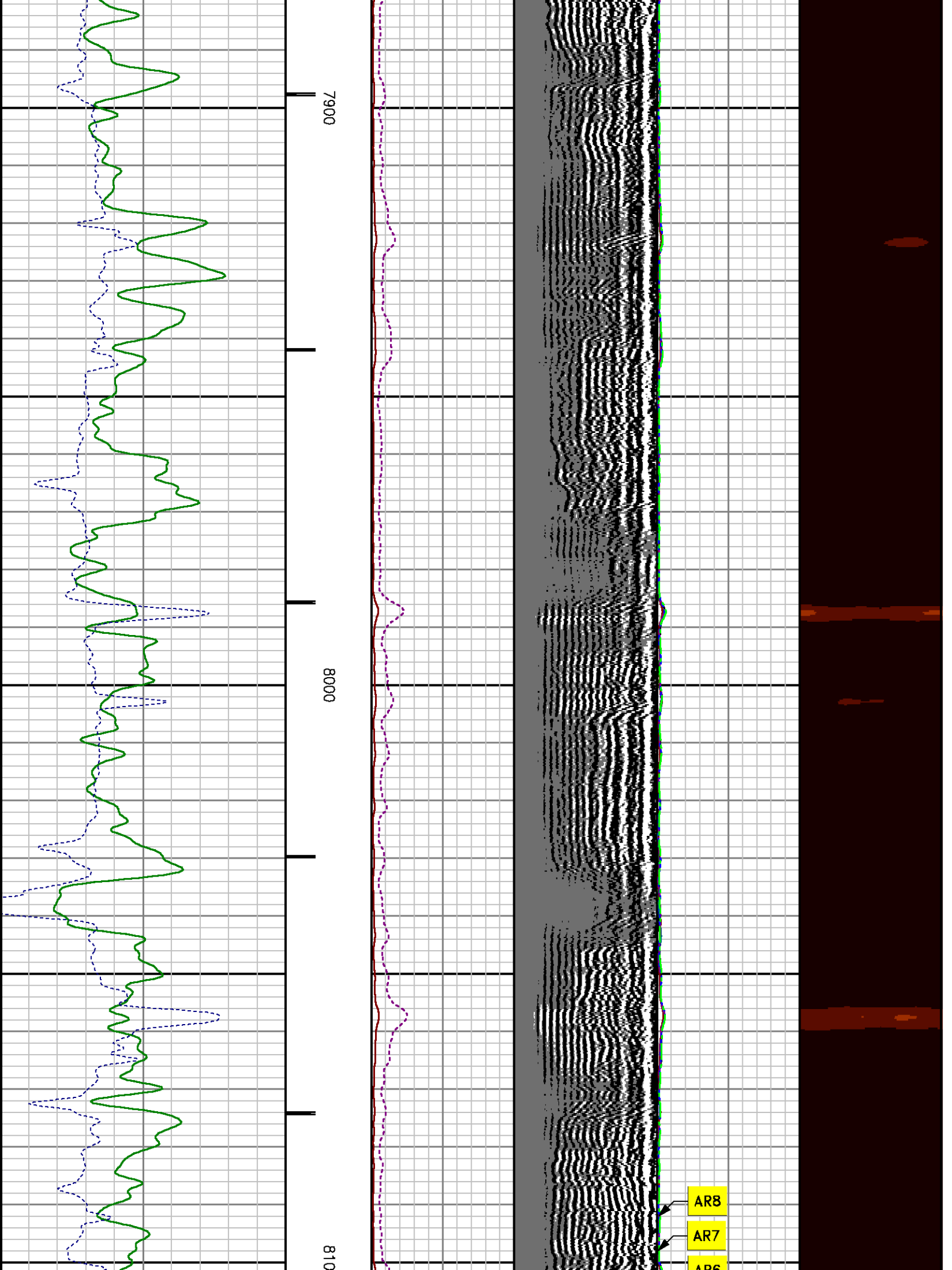


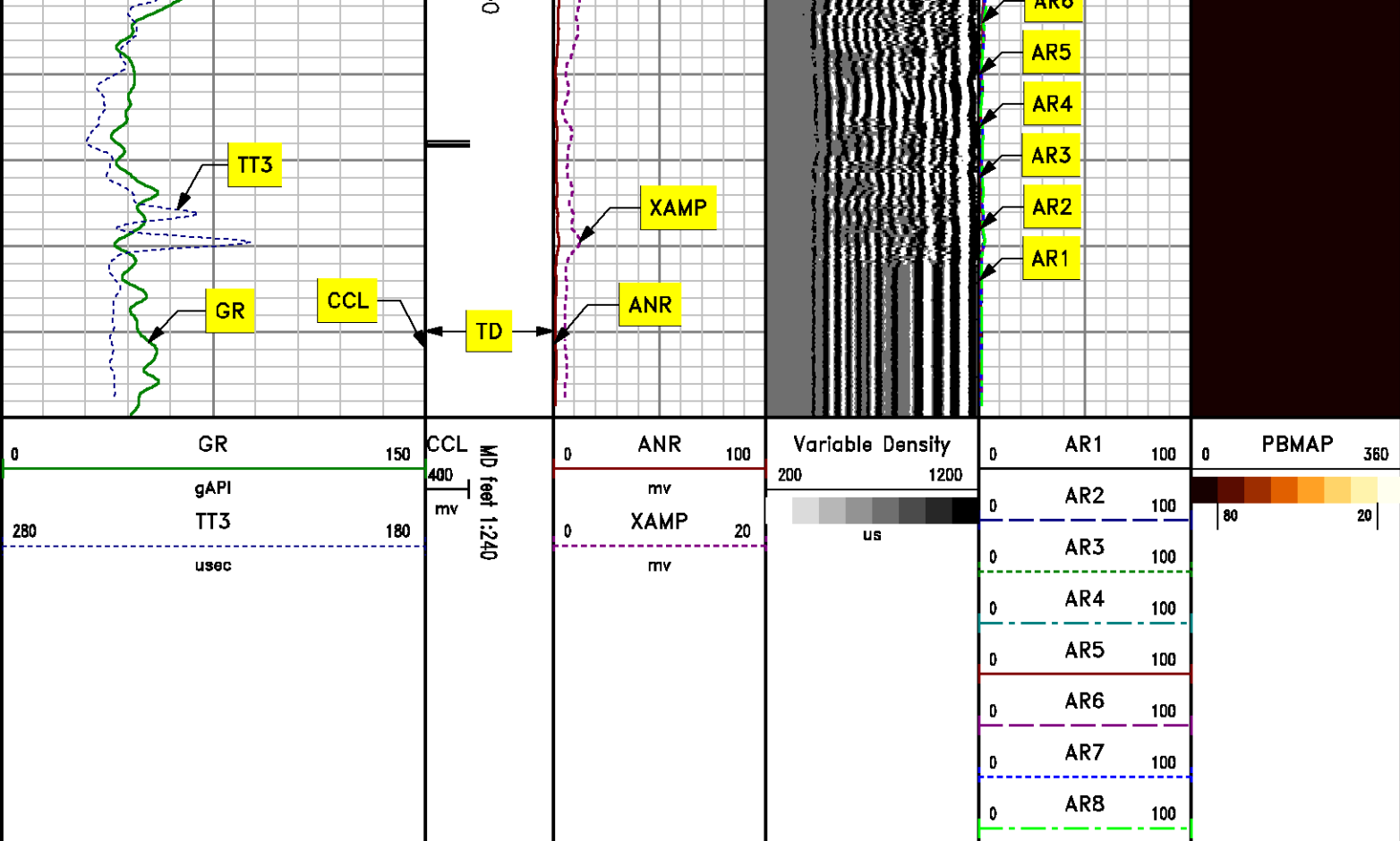












REPEAT PASS
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.887	uSec	7819.750	8152.000
RAL	Amp Gate Start Near	197.374	uSec	7819.750	8152.000
RAL	Amp Gate Start Radial	198.140	uSec	7819.750	8152.000
RAL	Amp Gate Width Far	25.000	uSec	7819.750	8152.000
RAL	Amp Gate Width Near	25.000	uSec	7819.750	8152.000
RAL	Amp Gate Width Radial	25.000	uSec	7819.750	8152.000
RAL	casing od	4.500	inches	7819.750	8152.000
RAL	casing wt	11.600	lbm/ft	7819.750	8152.000
RAL	FB Start Far	291.900	uSec	7819.750	8152.000
RAL	FB Start Near	175.391	uSec	7819.750	8152.000
RAL	FB Start Radial	175.391	uSec	7819.750	8152.000

RAL	FB Thresh Far	10.000	mv	7819.750	8152.000
RAL	FB Thresh Near	4.000	mv	7819.750	8152.000
RAL	FB Thresh Radial	4.000	mv	7819.750	8152.000
RAL	Fluid Travel Time	200.000	usec/ft	7819.750	8151.937

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4		
		AR5	AR6	AR7	AR8	CHV	FPR2		
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3		
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP		
1426XA	-10.040	AFAR	SIG	TT5					
1355XA	-5.620	CCL							
1355XA	-1.500	GR							
1355XA	0.000	TEMP							

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

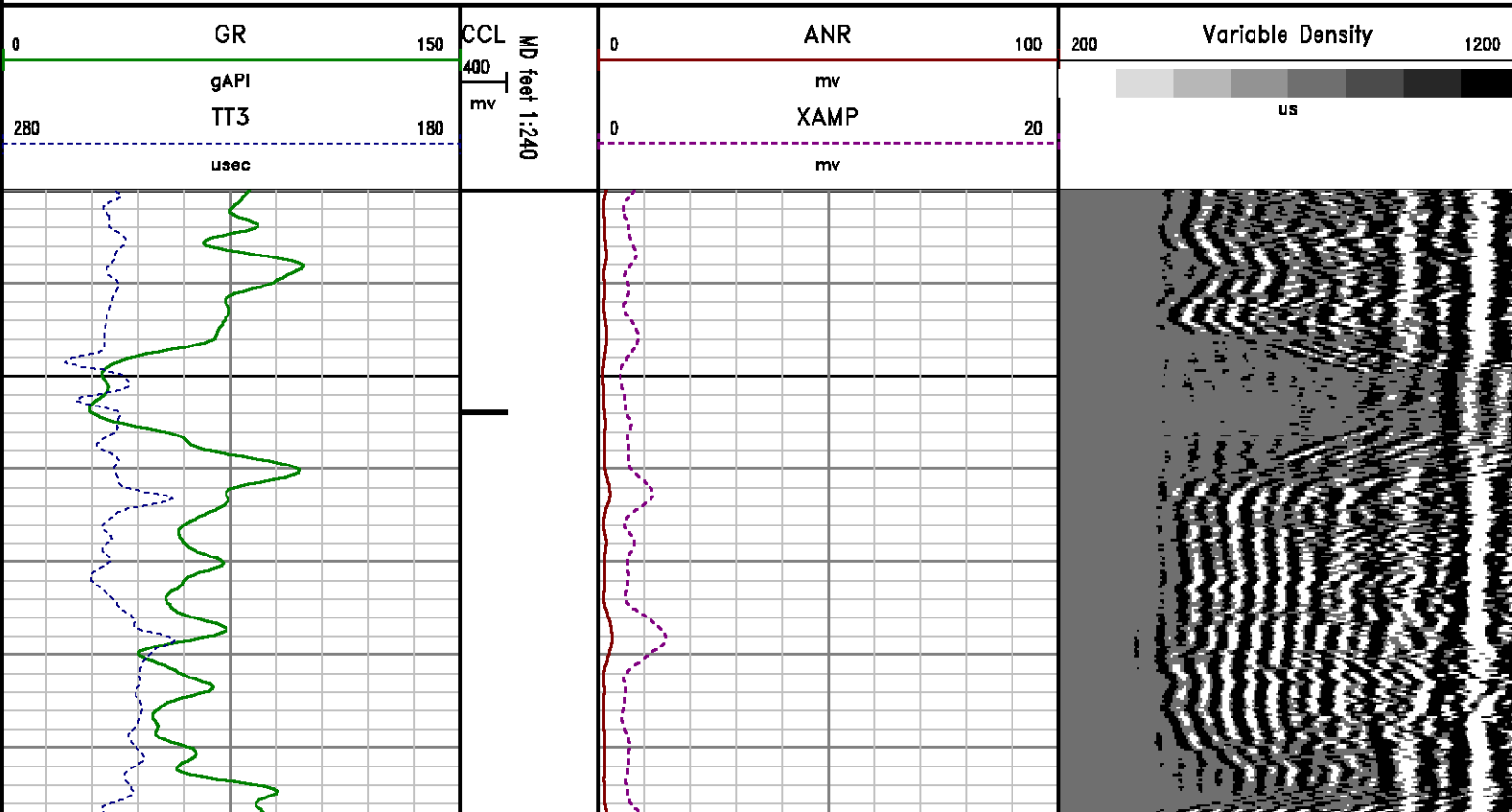
Well : GOLDSBOROUGH PA 411-11

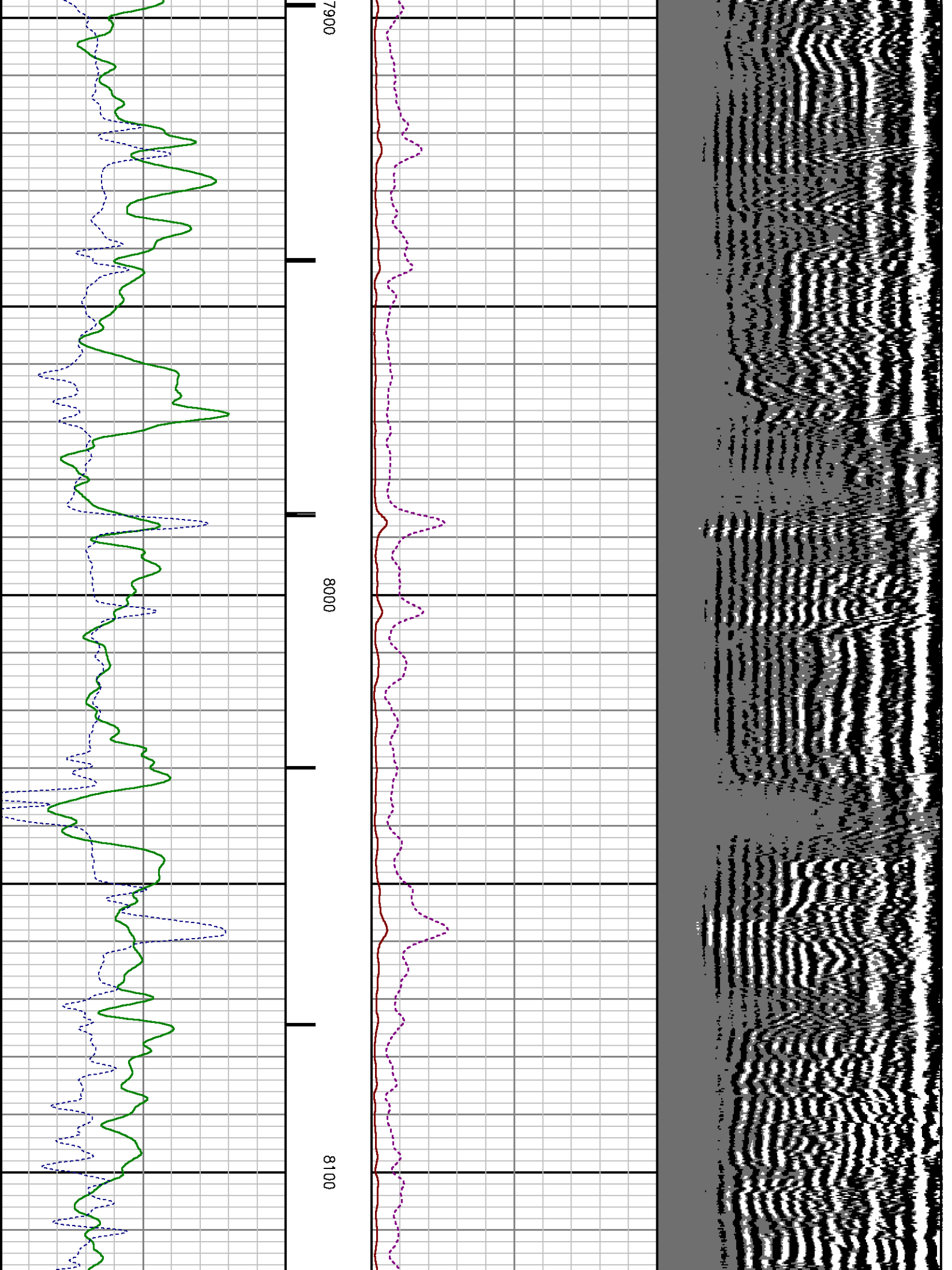
File Name : d:\welldata\411cbl\repeat.xtf

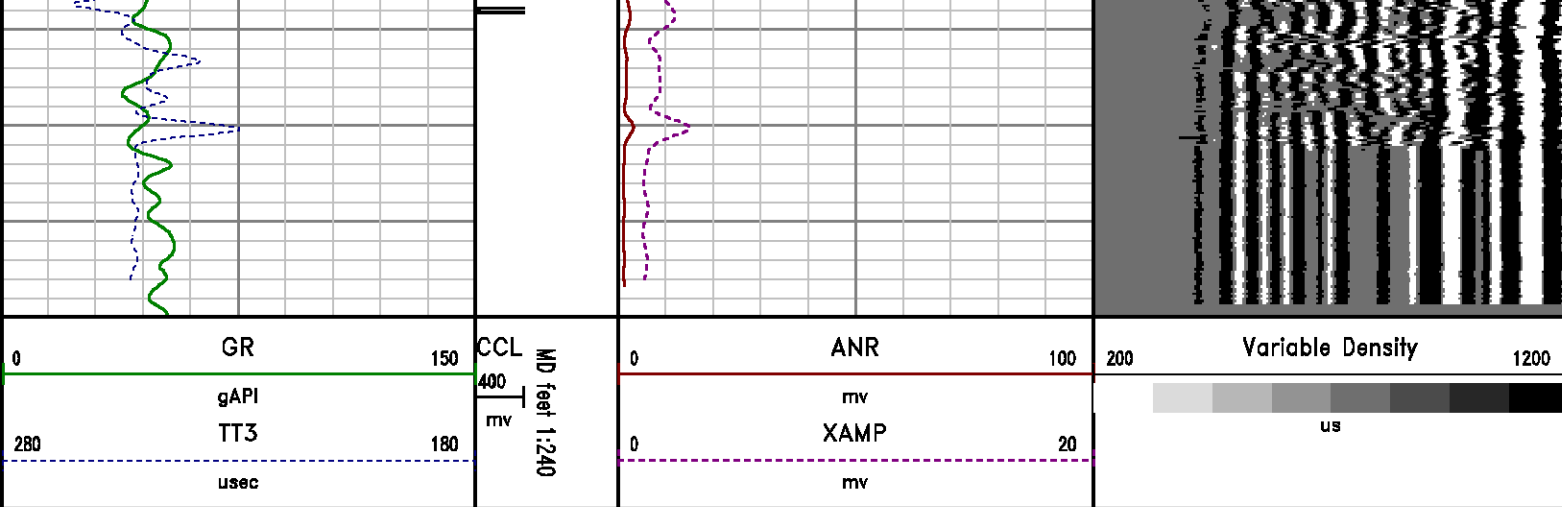
Mode : PlotMgr 5.4.504

Interval : 7830.00 - 8150.00 feet UP

Created : 5/22/2013 4:18:12 PM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\539M22_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed May 22 13:32:48 2013 TOOL SERIES: 1426XA ASSET: 539 SEQ: M22

Tool Delay [usec] -57.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	219	216	30	166	25	-0.578	100.00	0.19
3 Ft. Receiver	218	216	30	152	25	-0.637	100.00	0.18
5 Ft. Receiver	325	324	30	254	25	0.565	150.00	0.20
Radial #1	219	216	30	142	25	0.905	100.00	0.18
Radial #2	219	216	30	142	25	0.356	100.00	0.18
Radial #3	218	216	30	142	25	0.044	100.00	0.19
Radial #4	218	216	30	142	25	-0.083	100.00	0.19
Radial #5	218	216	30	142	25	0.008	100.00	0.18
Radial #6	216	216	30	142	25	-0.121	100.00	0.18
Radial #7	216	216	30	142	25	-0.043	100.00	0.18
Radial #8	219	216	30	142	25	-0.369	100.00	0.18

RALFLD

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed May 22 13:34:12 2013 TOOL SERIES: 1426XA ASSET: 539 SEQ: M22

Tool Delay [usec]	<input type="text" value="-57.00"/>	Casing OD In	<input type="text" value="4.50"/>	Casing Wt lbm/ft	<input type="text" value="11.60"/>	Casing ID In	<input type="text" value="4.00"/>
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RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.130"/>	<input type="text" value="0.000"/>	<input type="text" value="1.00"/>	<input type="text" value="100.000"/>
3 Ft. Receiver	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-3.327"/>			
5 Ft. Receiver	<input type="text" value="317"/>	<input type="text" value="30"/>	<input type="text" value="-4.557"/>			
Radial #1	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-4.688"/>			
Radial #2	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-4.174"/>			
Radial #3	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-4.047"/>			
Radial #4	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-4.364"/>			
Radial #5	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-5.982"/>			
Radial #6	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-4.615"/>			
Radial #7	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-4.783"/>			
Radial #8	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-4.774"/>			

GAMMA RAY

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun May 12 13:40:15 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: M2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	<input type="text" value="129.07"/>	<input type="text" value="523.51"/>	<input type="text" value="0.469"/>	<input type="text" value="60.53"/>	<input type="text" value="245.53"/>	<input type="text" value="185.00"/>

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sun May 12 13:41:35 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: M2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	<input type="text" value="131.47"/>	<input type="text" value="531.85"/>	<input type="text" value="0.469"/>	<input type="text" value="61.66"/>	<input type="text" value="249.45"/>	<input type="text" value="187.79"/>

TOOL DIAGRAM

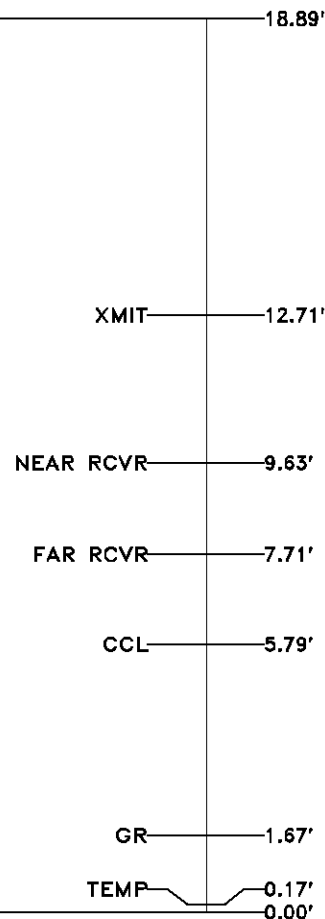
OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

RAL GR/TEMP/CCL/CHV DETECTOR

Series	1355XA
Mnemonic	RAL
Diameter	2.75"
Weight	85.00 lb
Length	6.96'
Measure Point	0.17' TEMP
Measure Point	1.67' GR
Measure Point	5.79' CCL
Temp Rating	400.00 °F
Press Rating	20000.00 PSI



Total Length: 18.89'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas



Company

WPX ENERGY

Well

GOLDSBOROUGH PA 411-11

Field

PARACHUTE

County

GARFIELD

State

COLORADO

Location

SHL: 2402' FNL & 2052' FWL SEC:11

BHL: 790' FNL & 653' FWL SEC:11

SEC 11

TWP 7S

RGE 95W

Elevations

KB 6295 ft

DF

GL 6274 ft

File No:

CH072161

API No:

05045218280000

11 7S 95W

PA 22-11

CYCLONE 17