



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH072151	Company Well Field County	WPX ENERGY GOLDSBOROUGH PA 512-11 PARACHUTE GARFIELD	State COLORADO
API No: 05045218290000			
11 7S 9SW PA 22-11 CYCLONE 17	Location SHL: 2412' FNL & 2045' FNL SEC:11 BHL: 2460' FNL & 1072' FNL SEC:11 SEC 11 TWP 7S RGE 9SW	Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 6274 ft K.B. _____ 21 ft KELLY BUSHING _____ Above P. D. _____	Elevations KB 6295 ft DF GL 6274 ft	

Date	22/MAY/15	
Run	ONE	
Service Order	575084	
Depth Driller	7786 ft	
Depth Logger	7757 ft	
Bottom Logged Interval	7747 ft	
Top Logged Interval	21 ft	
Time Started	7:00	
Time Finished	15:30	
Operator Rig Time	8.5 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	74 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	224 degF	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	4271	GRAND JUNCTION
Recorded By	W. 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	885 ft
8.75 in	0 ft	7852 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	N/A	N/A	0 ft	877 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	7786 ft

Remarks
ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH THE TOP CCL MARK WITH KB LEVEL AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 3 FEET UP.
SHORT JOINT: 4532' - 4557'
BHT: 224 degF
LOG DONE WITH 0 PSI ON WELLHEAD

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10404539	CENTRALIZED
1	1	GAMMA RAY/CCL	2459XA	10580209	CENTRALIZED

MAIN LOG PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	306.674	usec	18.610	6447.300
RAL	Amp Gate Start Near	199.125	usec	18.610	6447.300
RAL	Amp Gate Start Radial	198.578	usec	18.610	6447.300
RAL	Amp Gate Width Far	25.000	usec	18.610	6447.300
RAL	Amp Gate Width Near	25.000	usec	18.610	6447.300
RAL	Amp Gate Width Radial	25.000	usec	18.610	6447.300
RAL	casing od	4.500	inches	18.610	6447.300
RAL	casing wt	11.600	lbm/ft	18.610	6447.300
RAL	FB Start Far	291.900	usec	18.610	6447.300
RAL	FB Start Near	175.391	usec	18.610	6447.300
RAL	FB Start Radial	175.391	usec	18.610	6447.300
RAL	FB Thresh Far	10.000	mv	18.610	6447.300
RAL	FB Thresh Near	4.000	mv	18.610	6447.300
RAL	FB Thresh Radial	4.000	mv	18.610	6447.300
RAL	Fluid Travel Time	200.000	usec/ft	18.610	6447.300
RAL	Amp Gate Start Far	305.653	usec	6447.300	7097.300
RAL	Amp Gate Start Near	197.374	usec	6447.300	7097.300
RAL	Amp Gate Start Radial	198.140	usec	6447.300	7097.300
RAL	Amp Gate Width Far	25.000	usec	6447.300	7097.300
RAL	Amp Gate Width Near	25.000	usec	6447.300	7097.300
RAL	Amp Gate Width Radial	25.000	usec	6447.300	7097.300
RAL	casing od	4.500	inches	6447.300	7097.300
RAL	casing wt	11.600	lbm/ft	6447.300	7097.300
RAL	FB Start Far	291.900	usec	6447.300	7097.300
RAL	FB Start Near	175.391	usec	6447.300	7097.300
RAL	FB Start Radial	175.391	usec	6447.300	7097.300

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RAL	FB Thresh Far	10.000	mv	6447.300	7097.300
RAL	FB Thresh Near	4.000	mv	6447.300	7097.300
RAL	FB Thresh Radial	4.000	mv	6447.300	7097.300
RAL	Fluid Travel Time	200.000	usec/ft	6447.300	7097.300
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RAL	Amp Gate Start Near	197.374	usec	7097.300	7777.300
RAL	Amp Gate Start Radial	198.140	usec	7097.300	7777.300
RAL	Amp Gate Width Far	25.000	usec	7097.300	7777.300
RAL	Amp Gate Width Near	25.000	usec	7097.300	7777.300
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RAL	FB Thresh Radial	4.000	mv	7097.300	7777.300
RAL	Fluid Travel Time	200.000	usec/ft	7097.300	7777.300

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

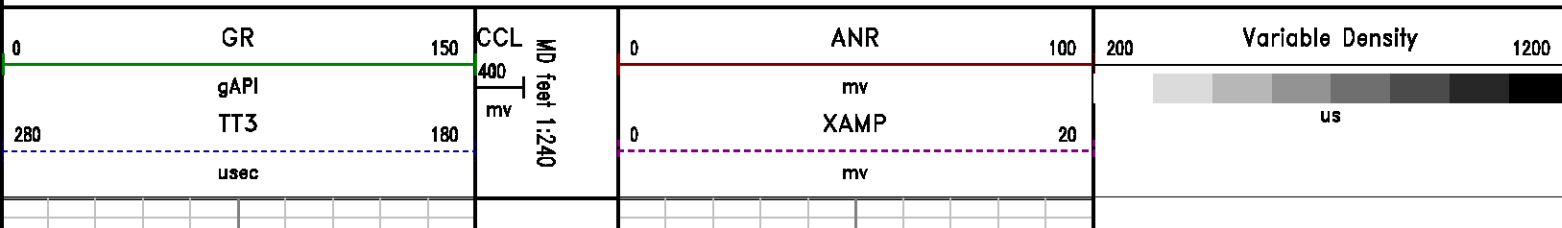
Well : GOLDSBOROUGH PA 512-11

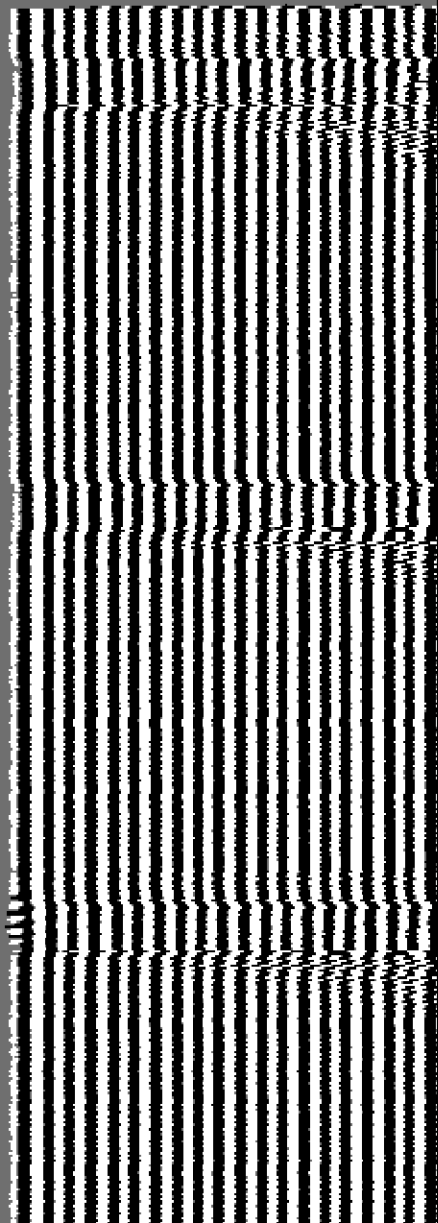
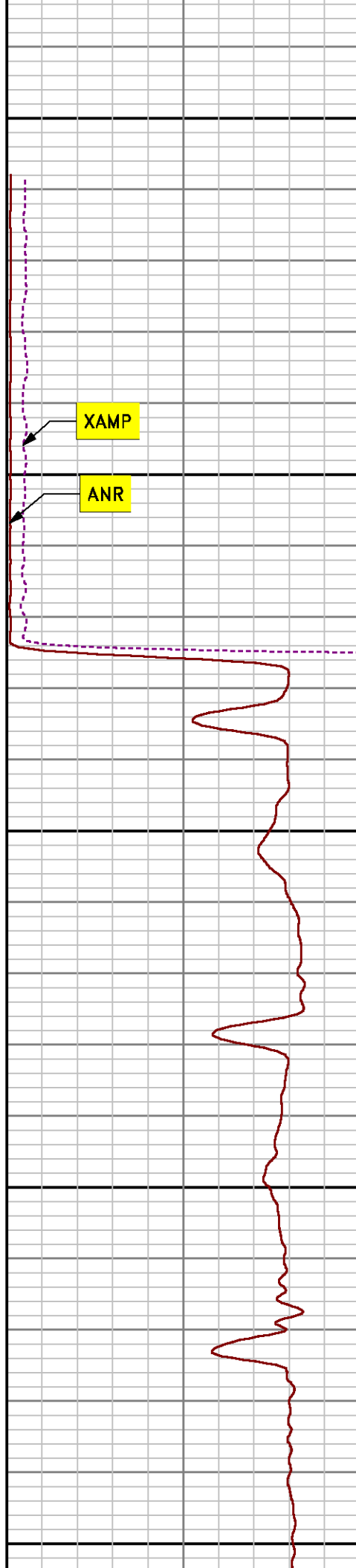
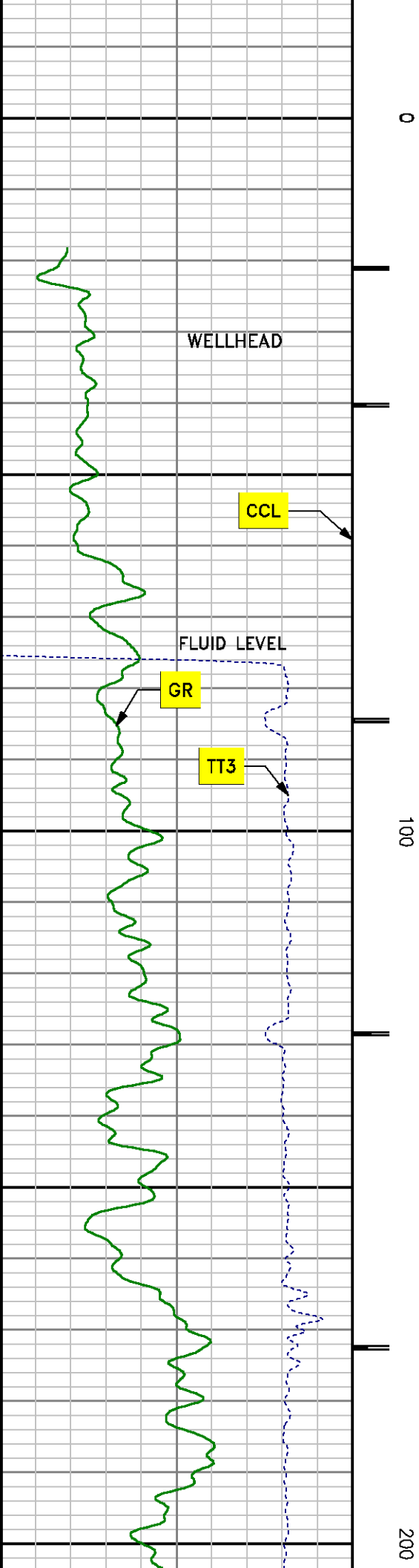
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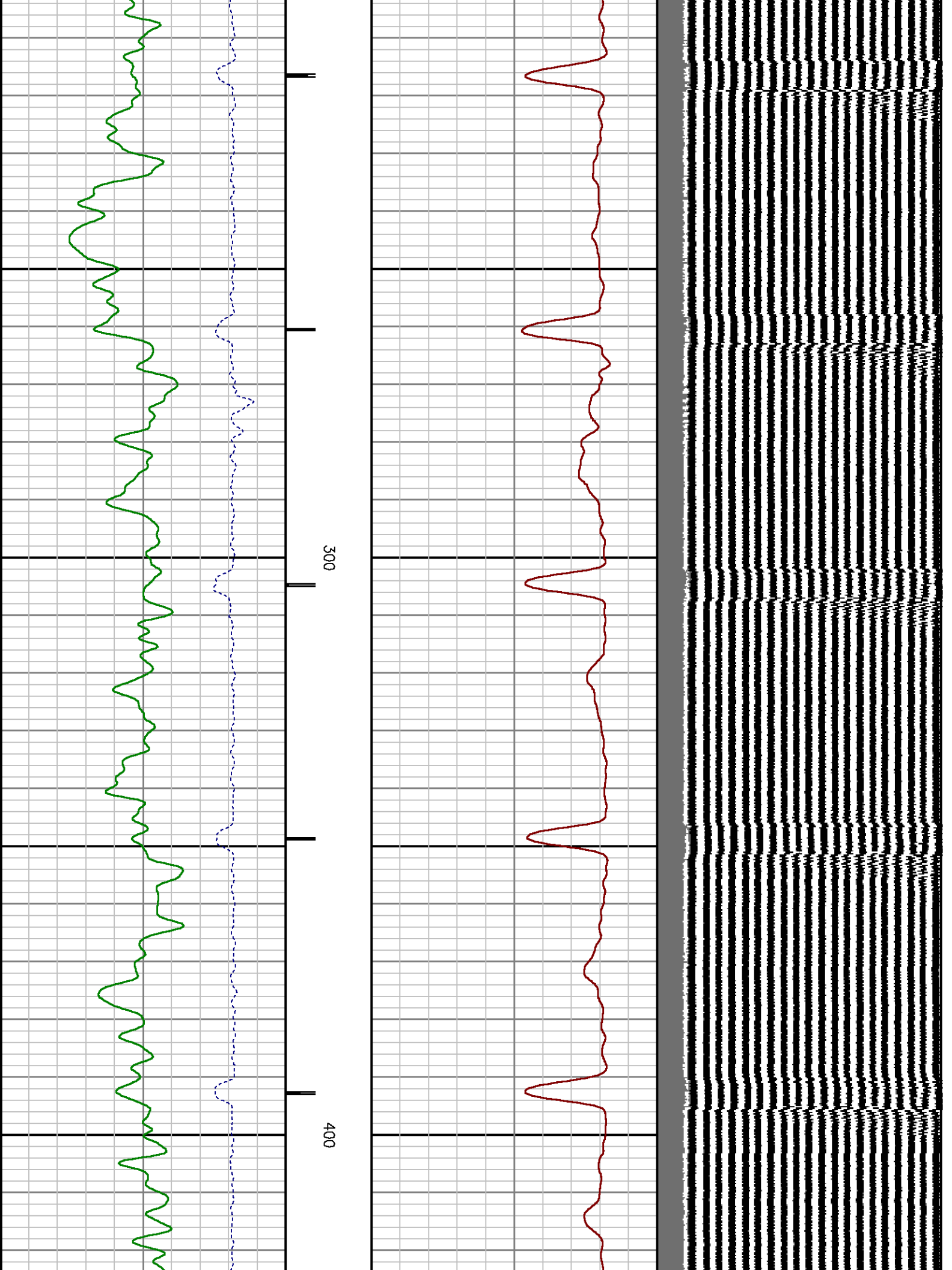
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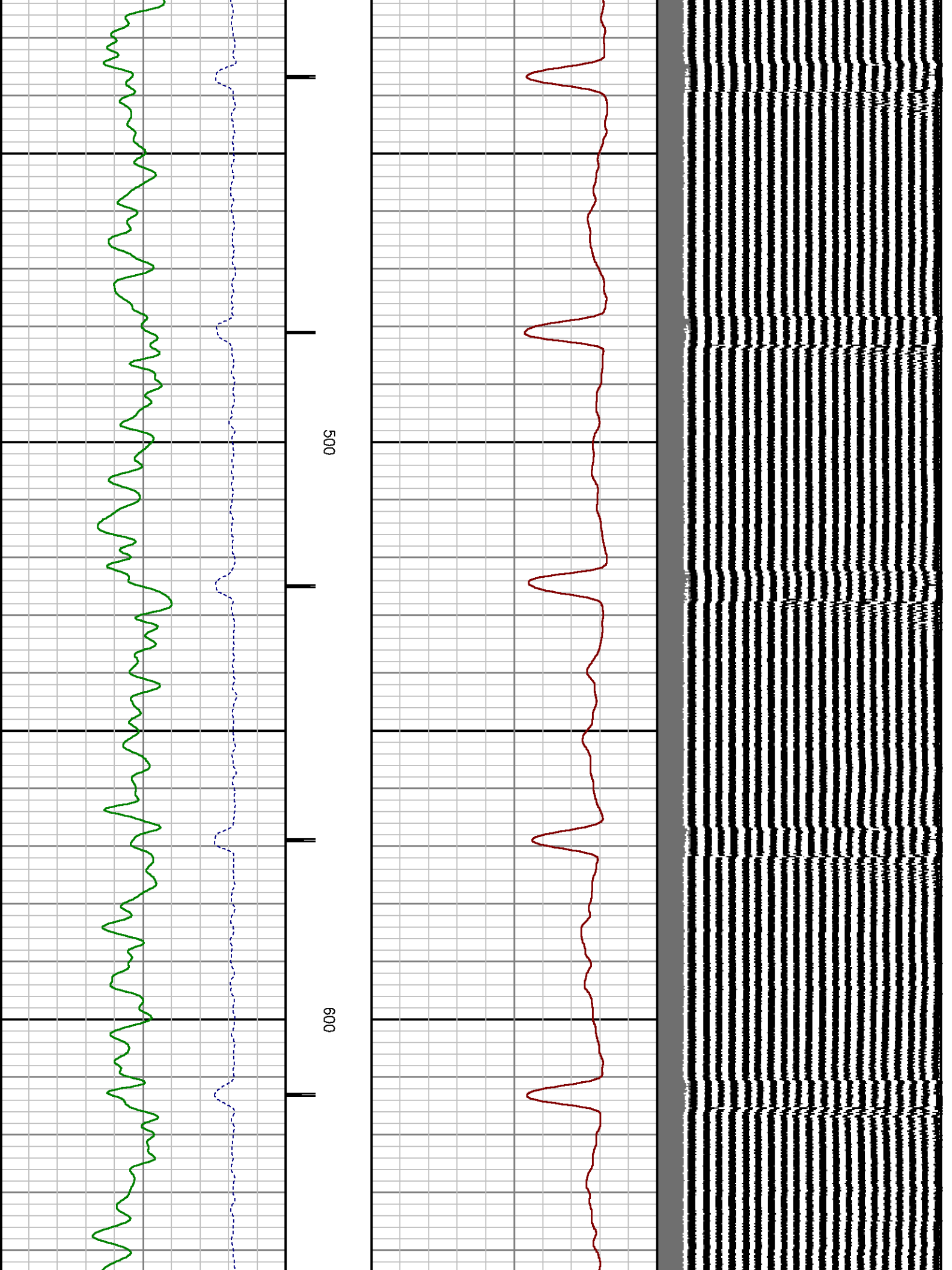
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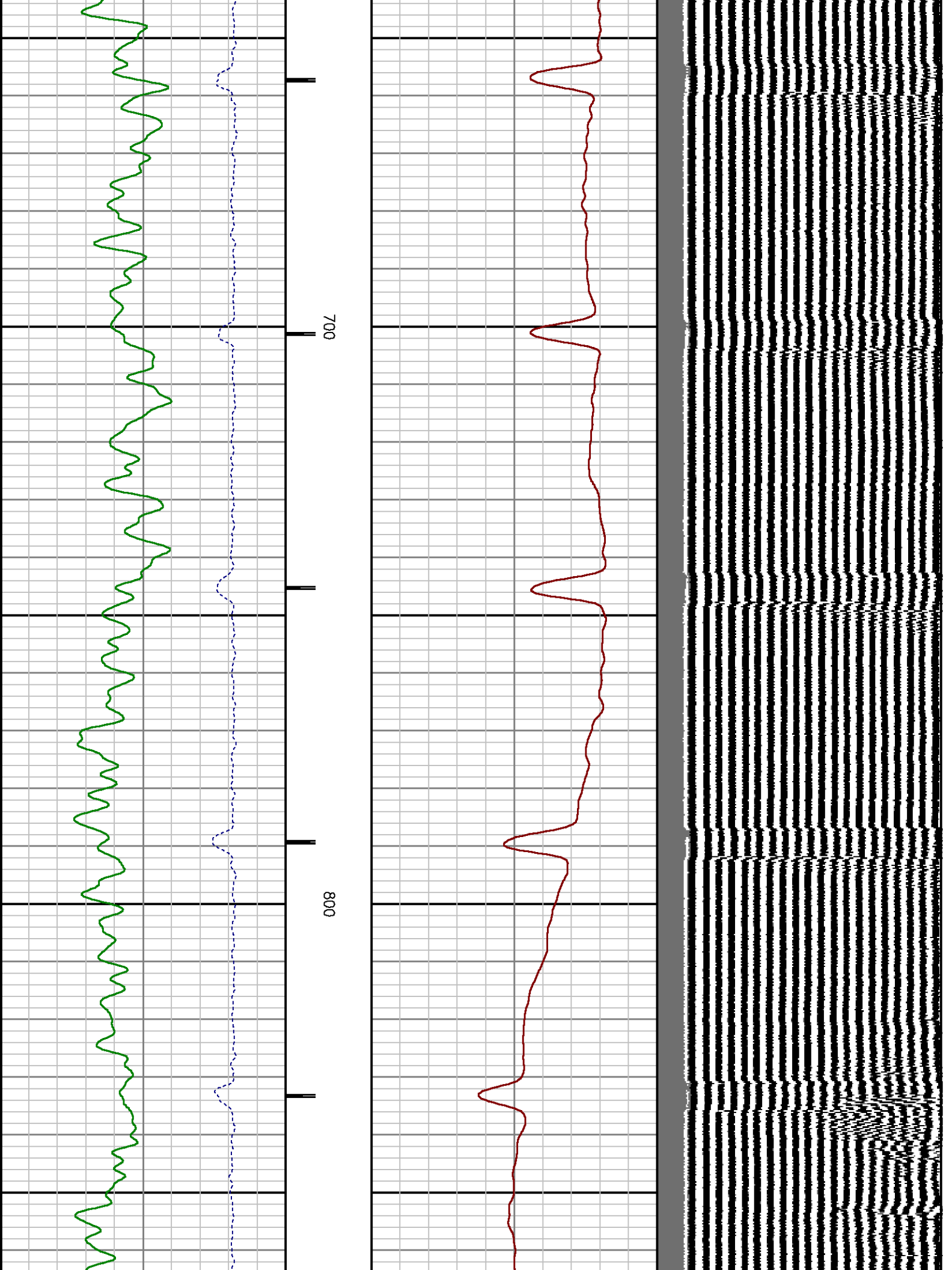
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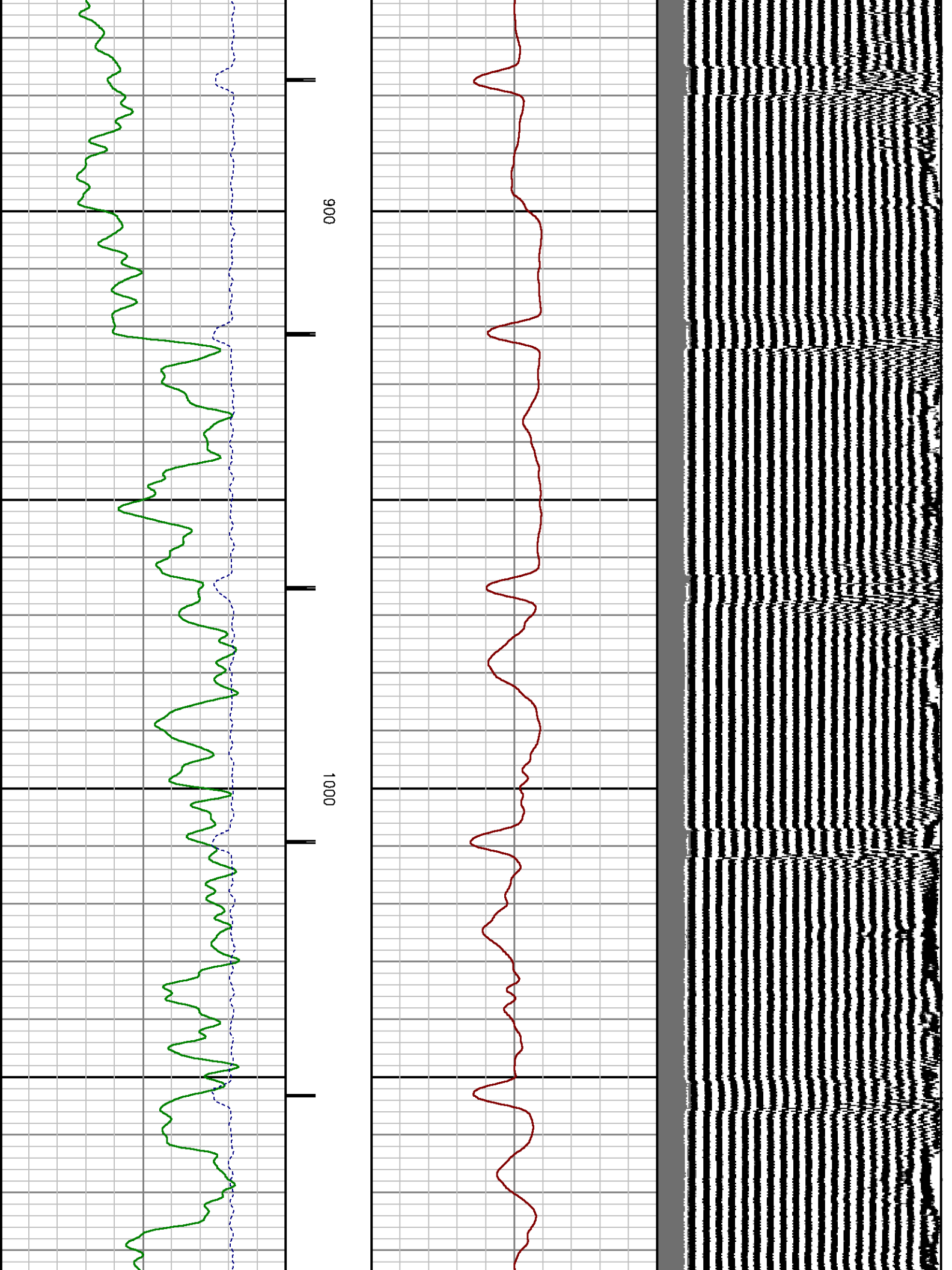


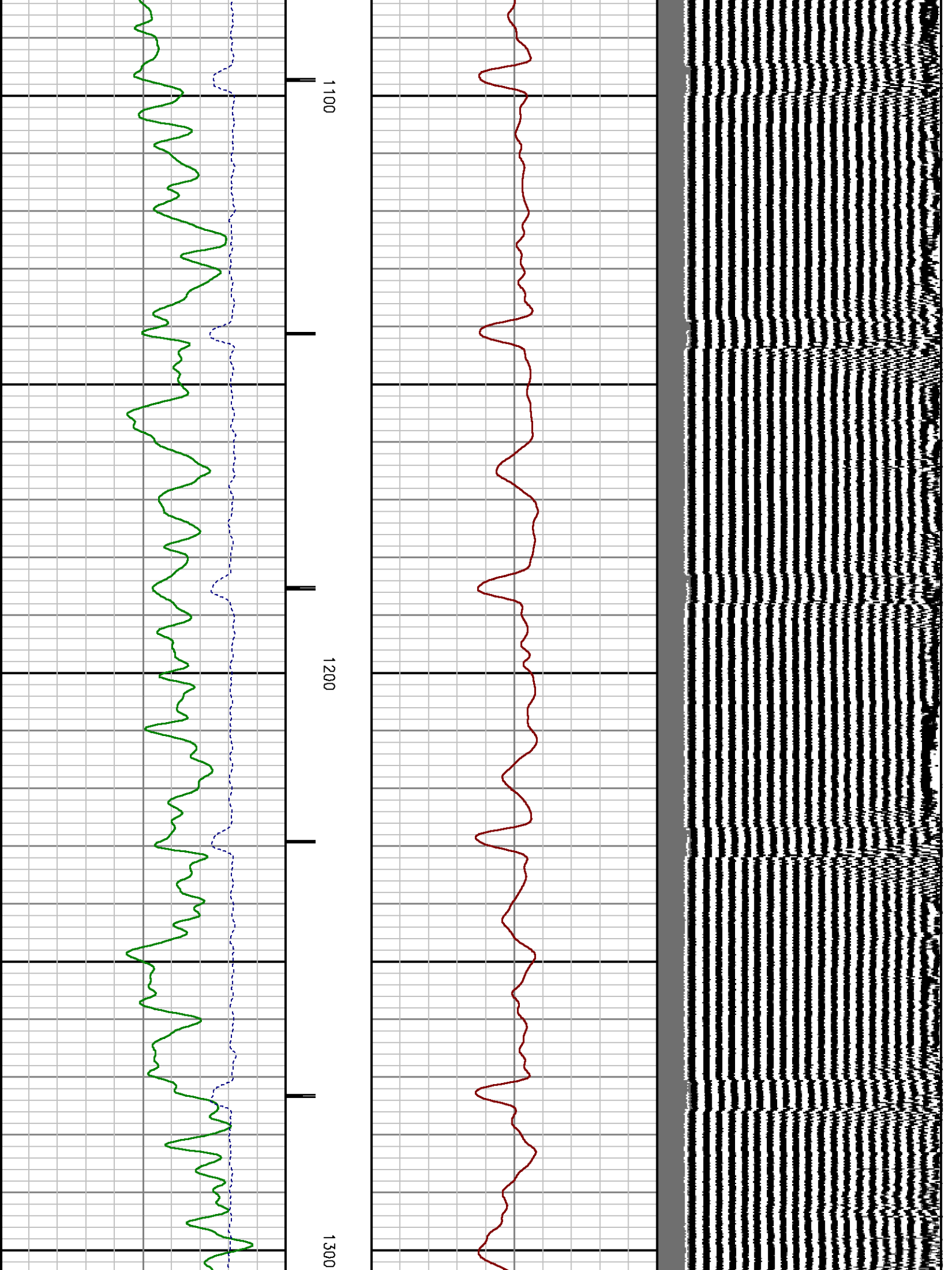


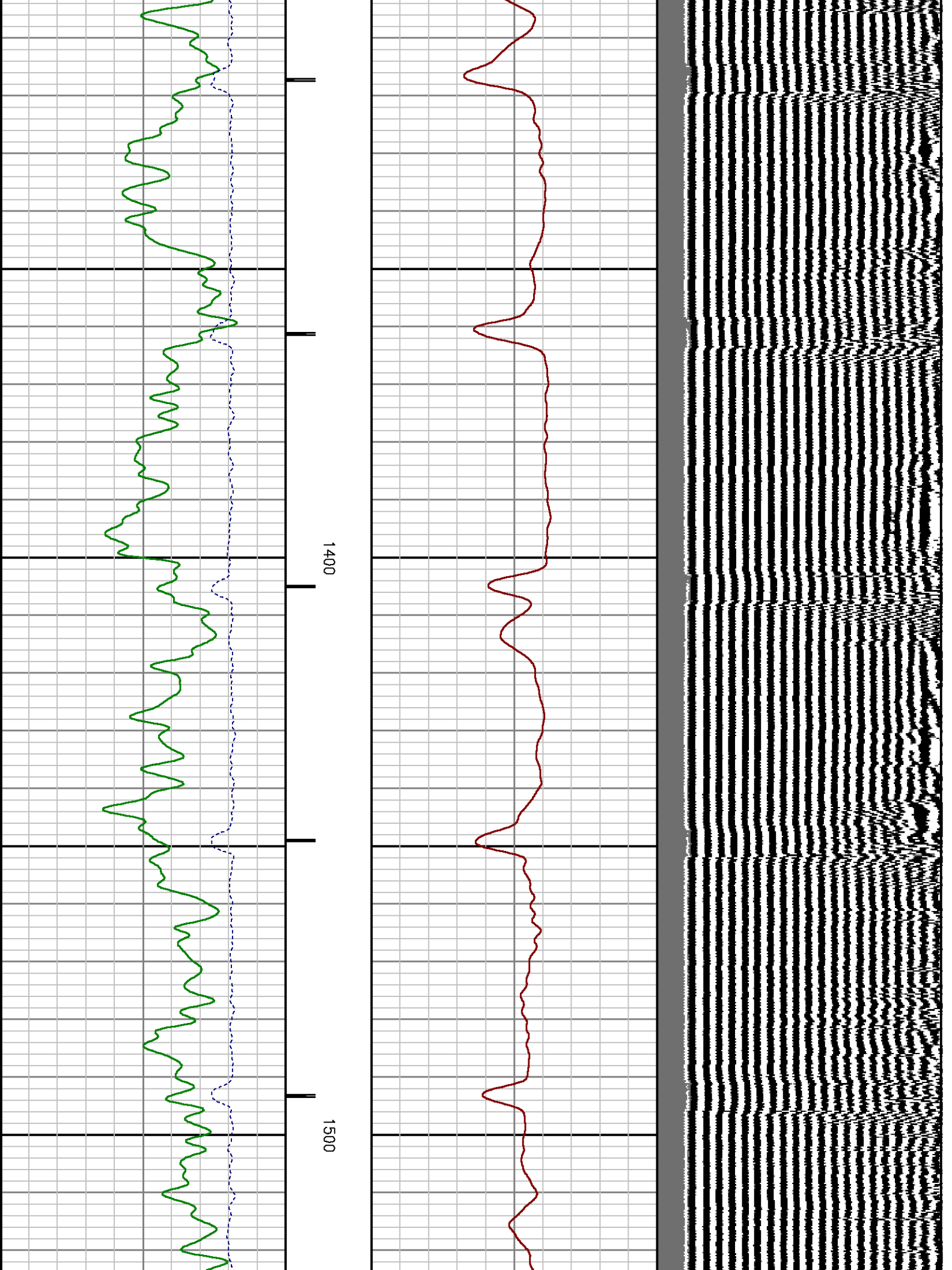


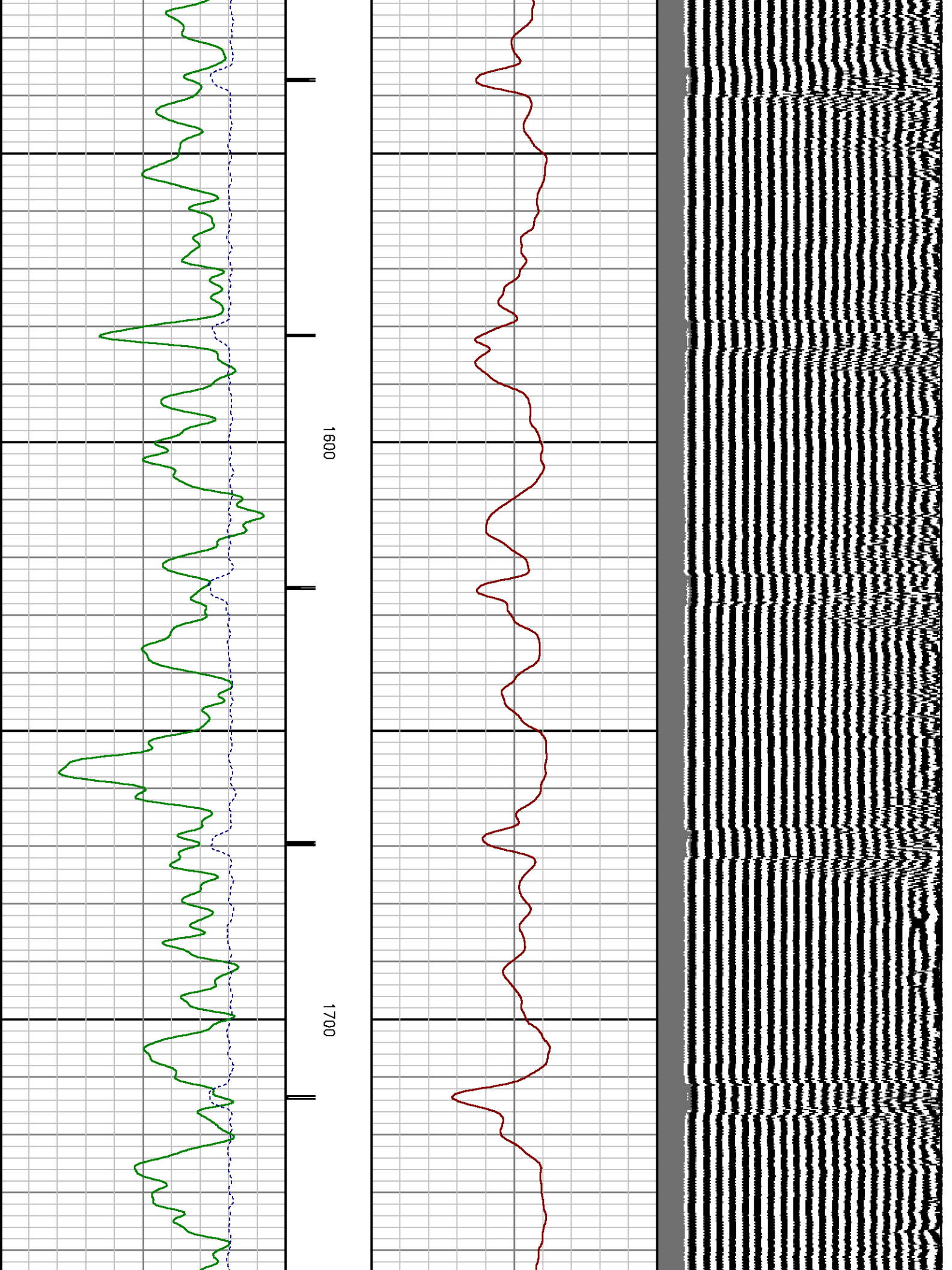


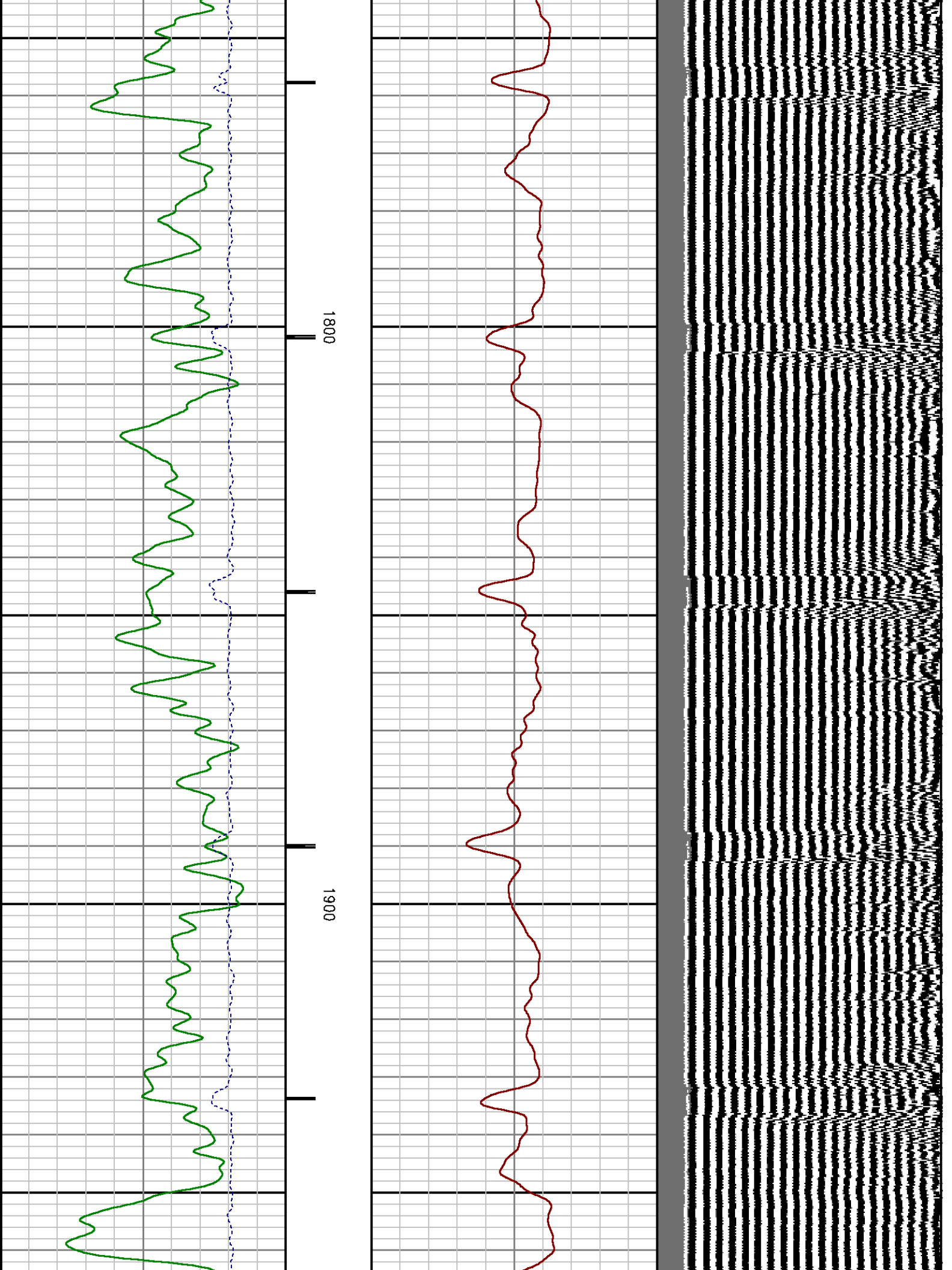


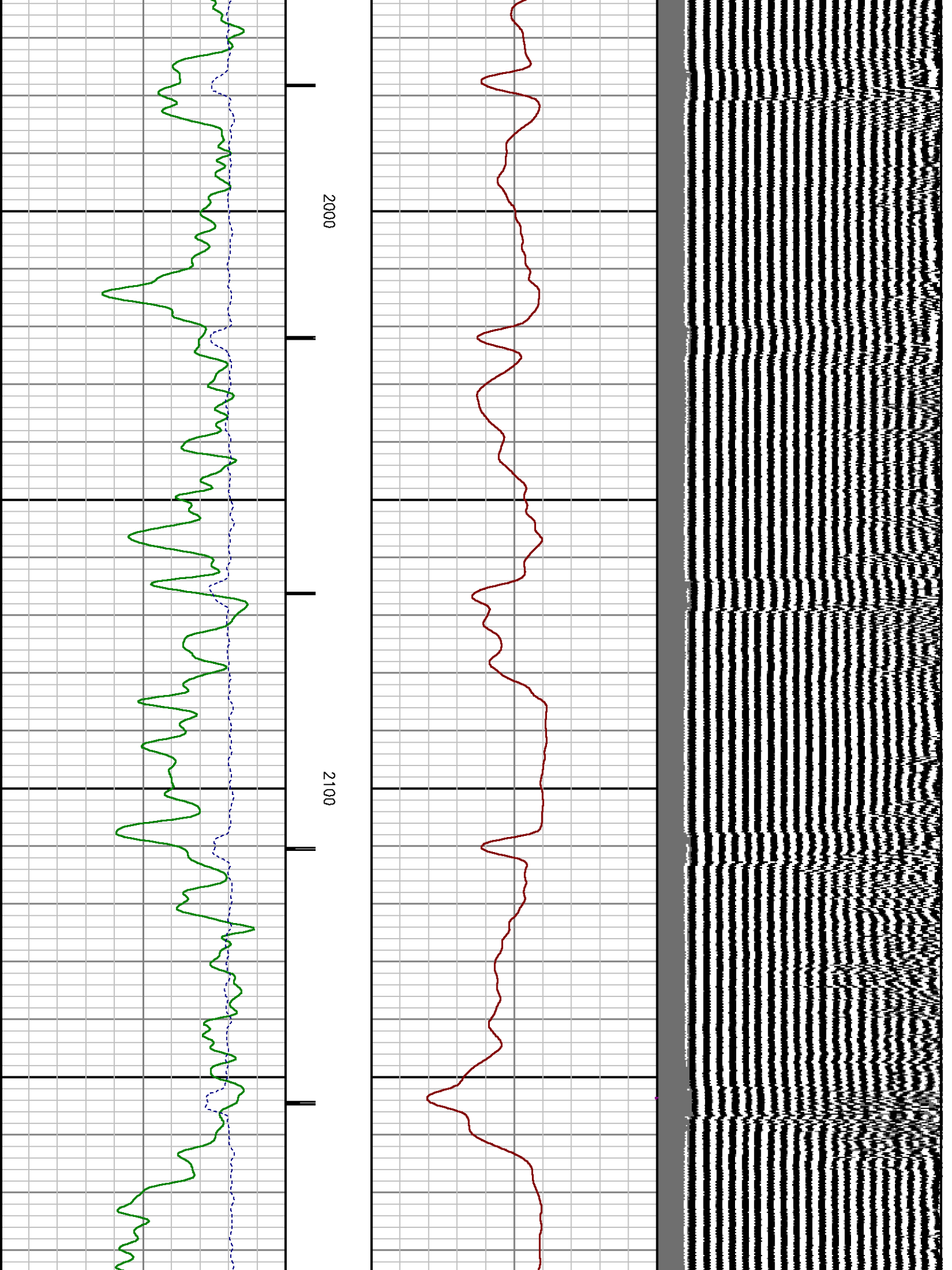


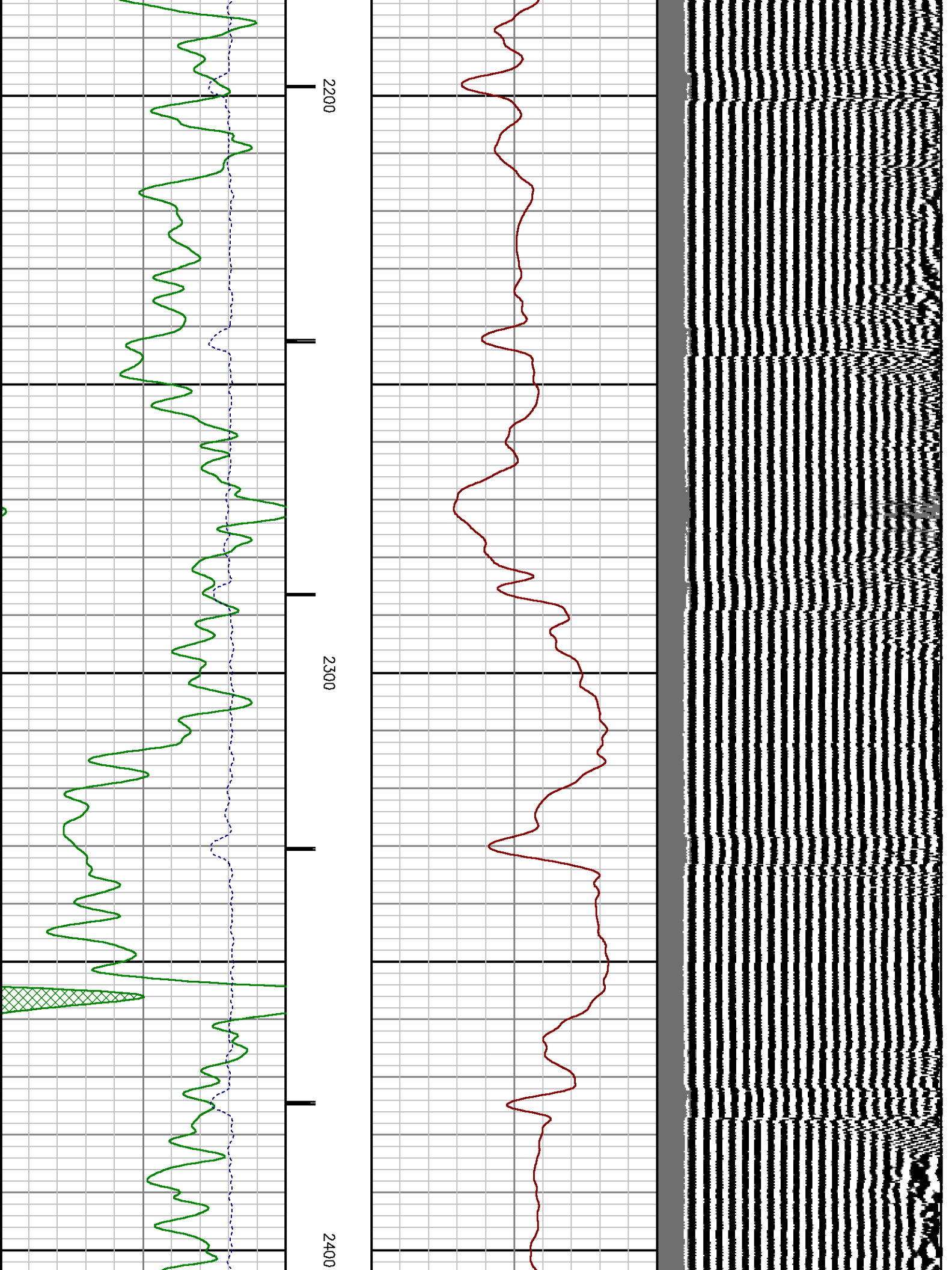


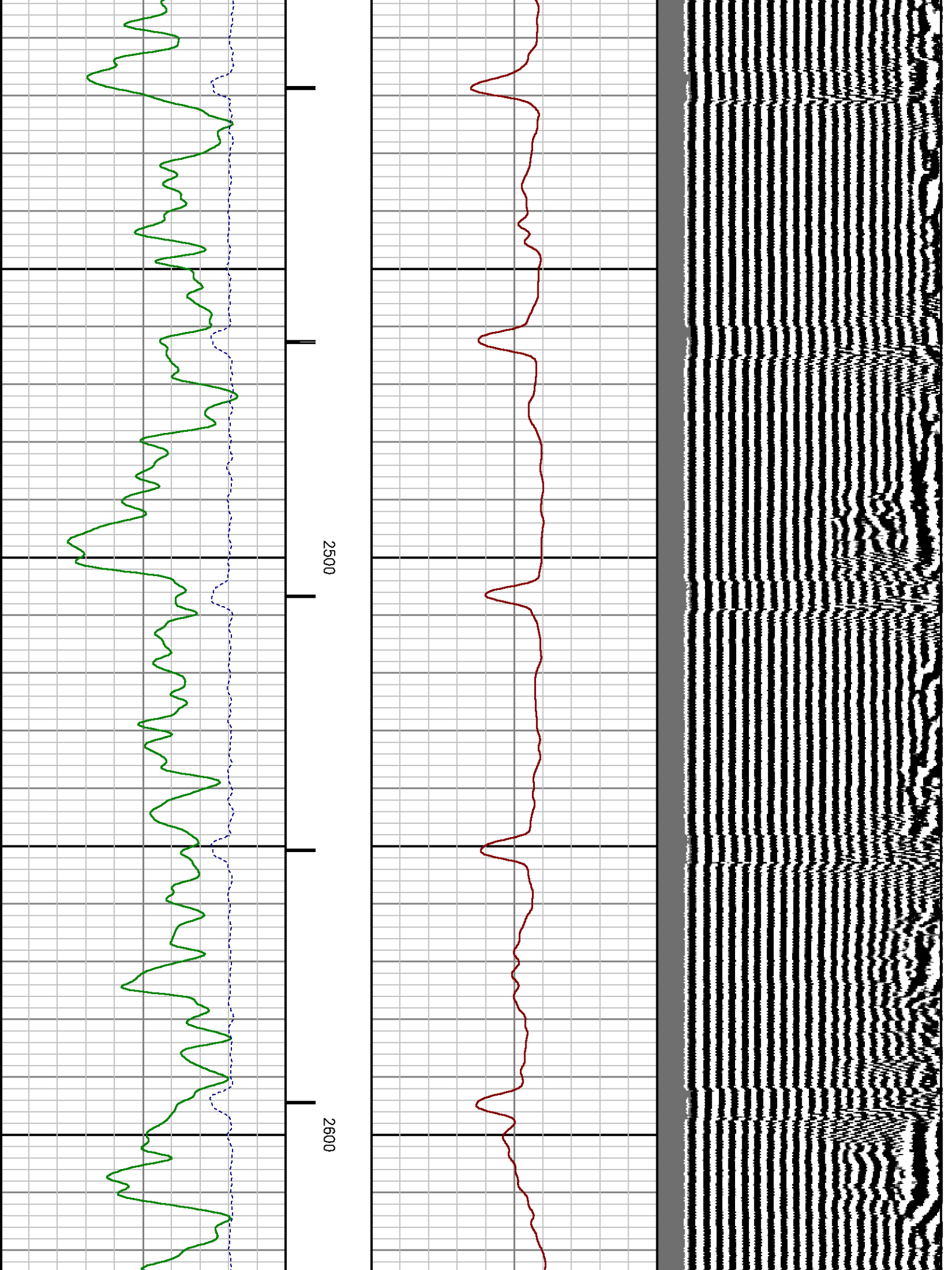


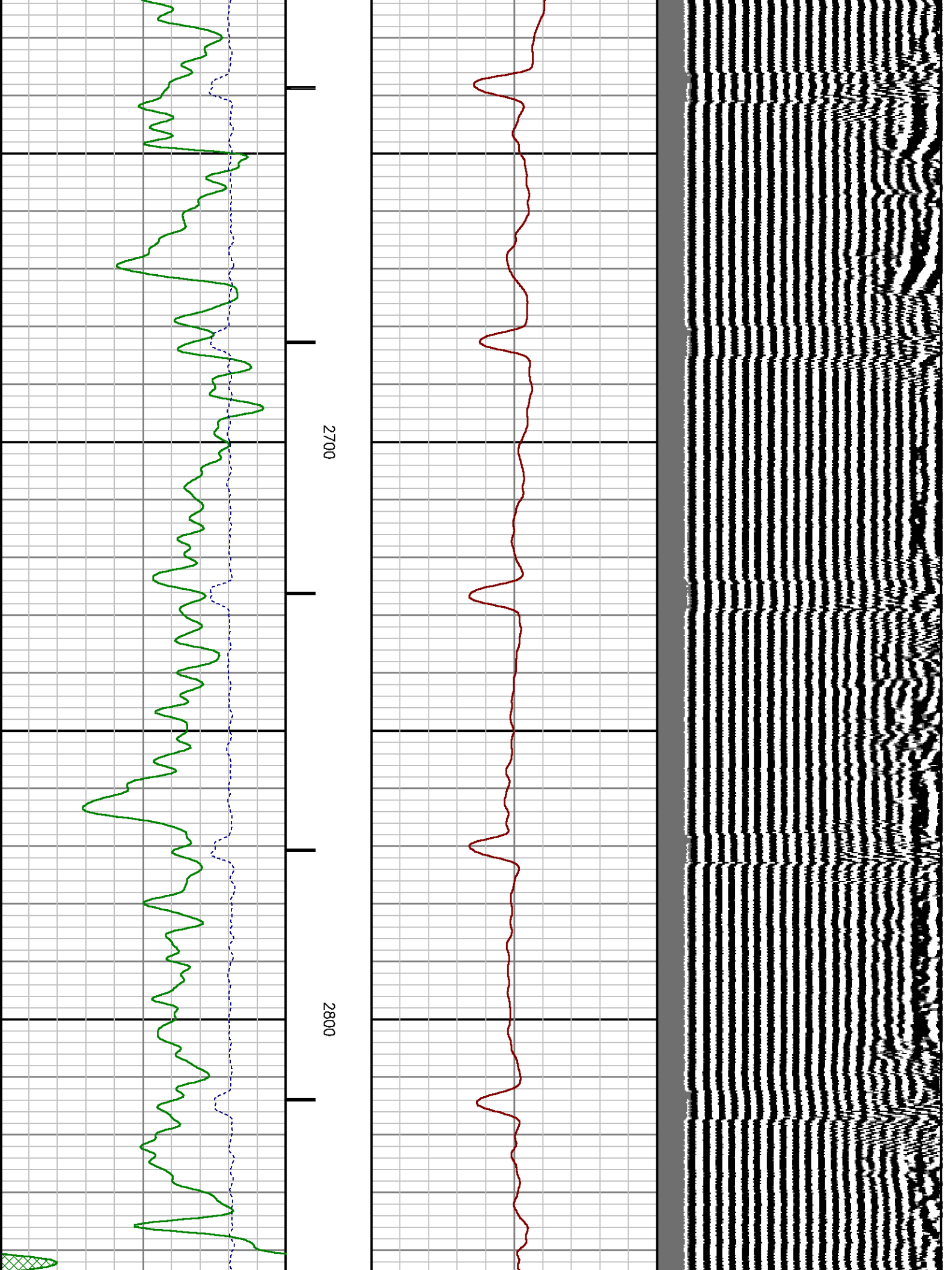


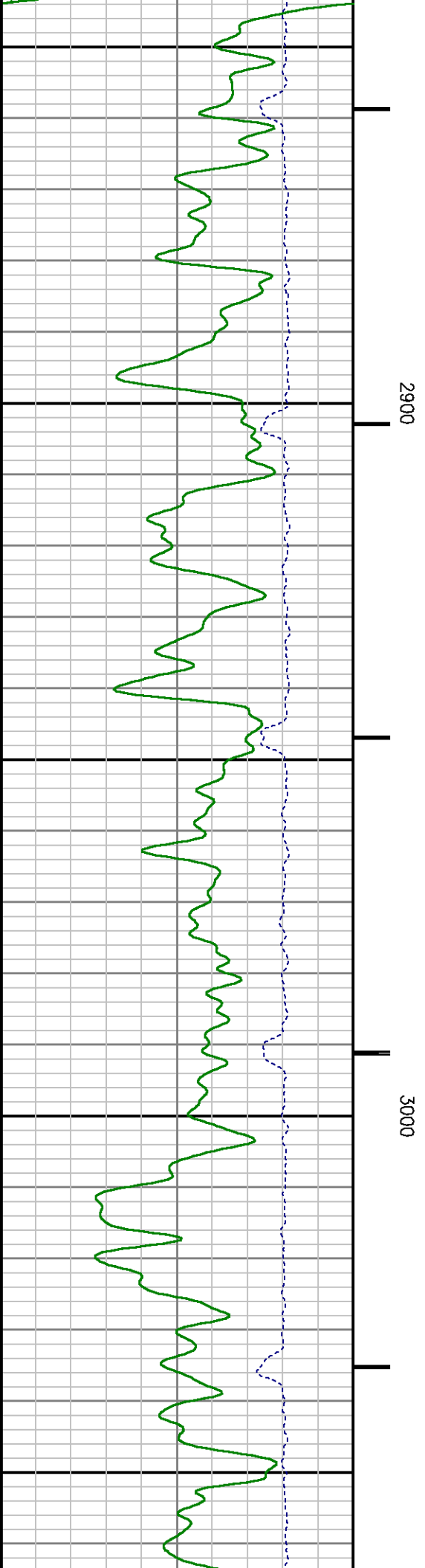
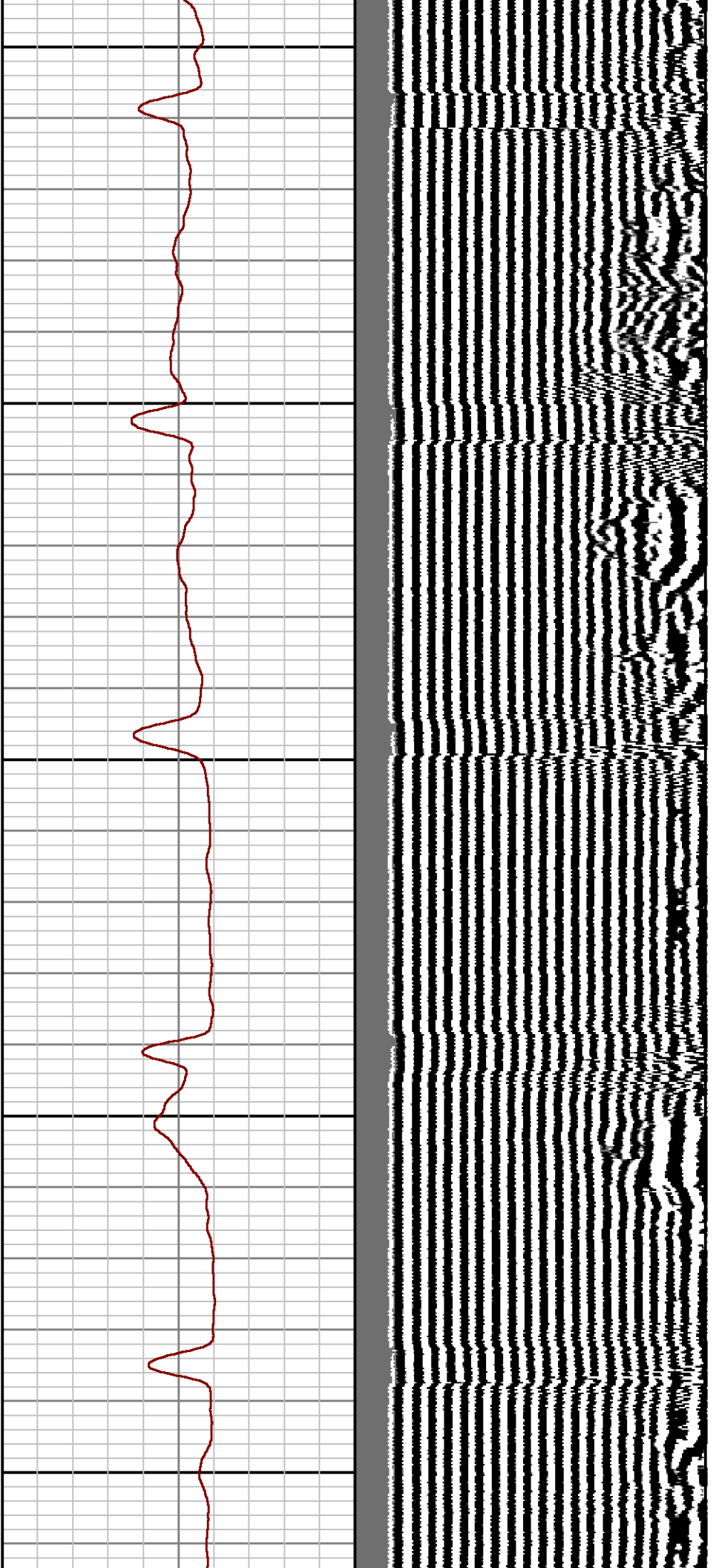


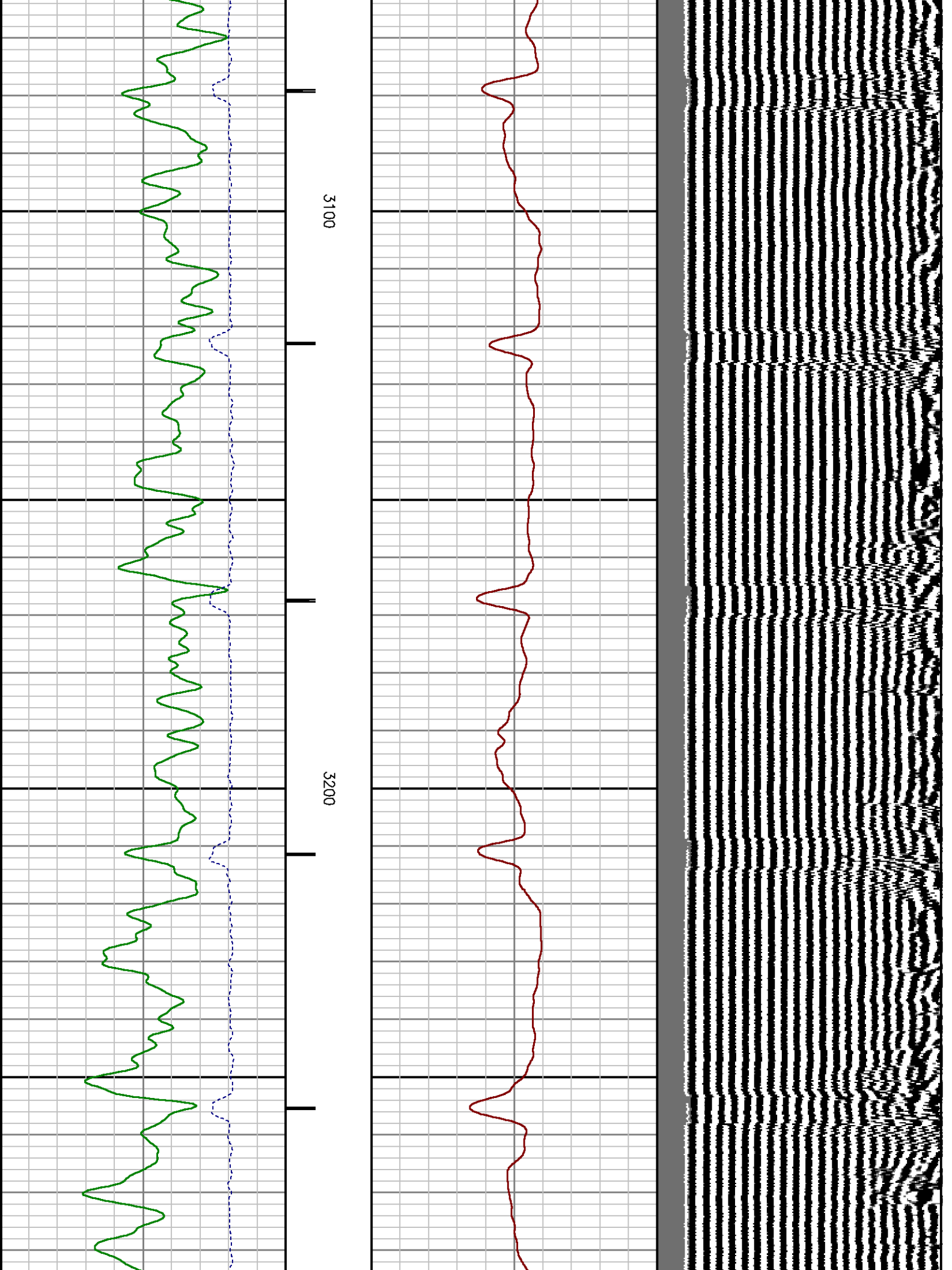


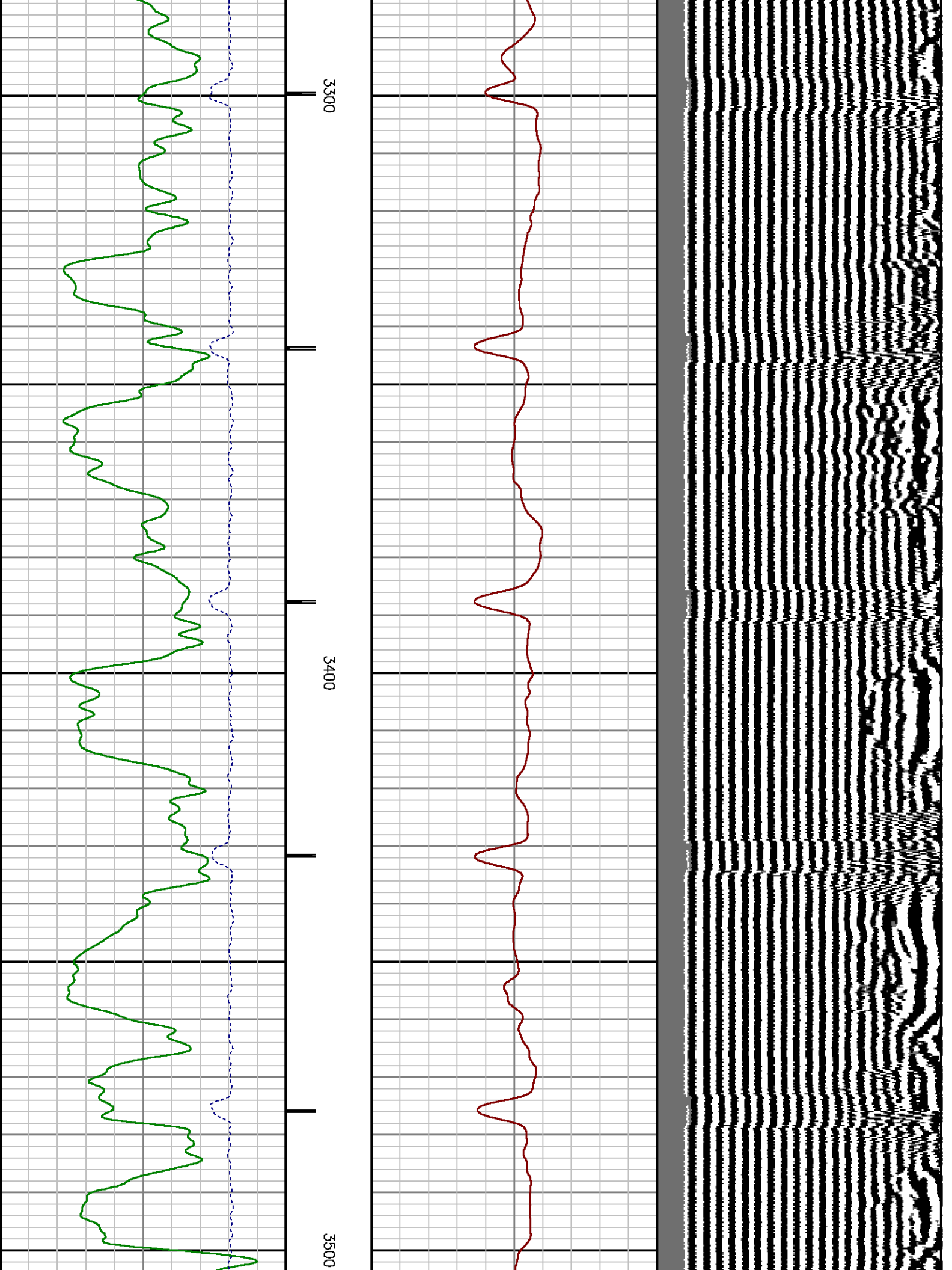


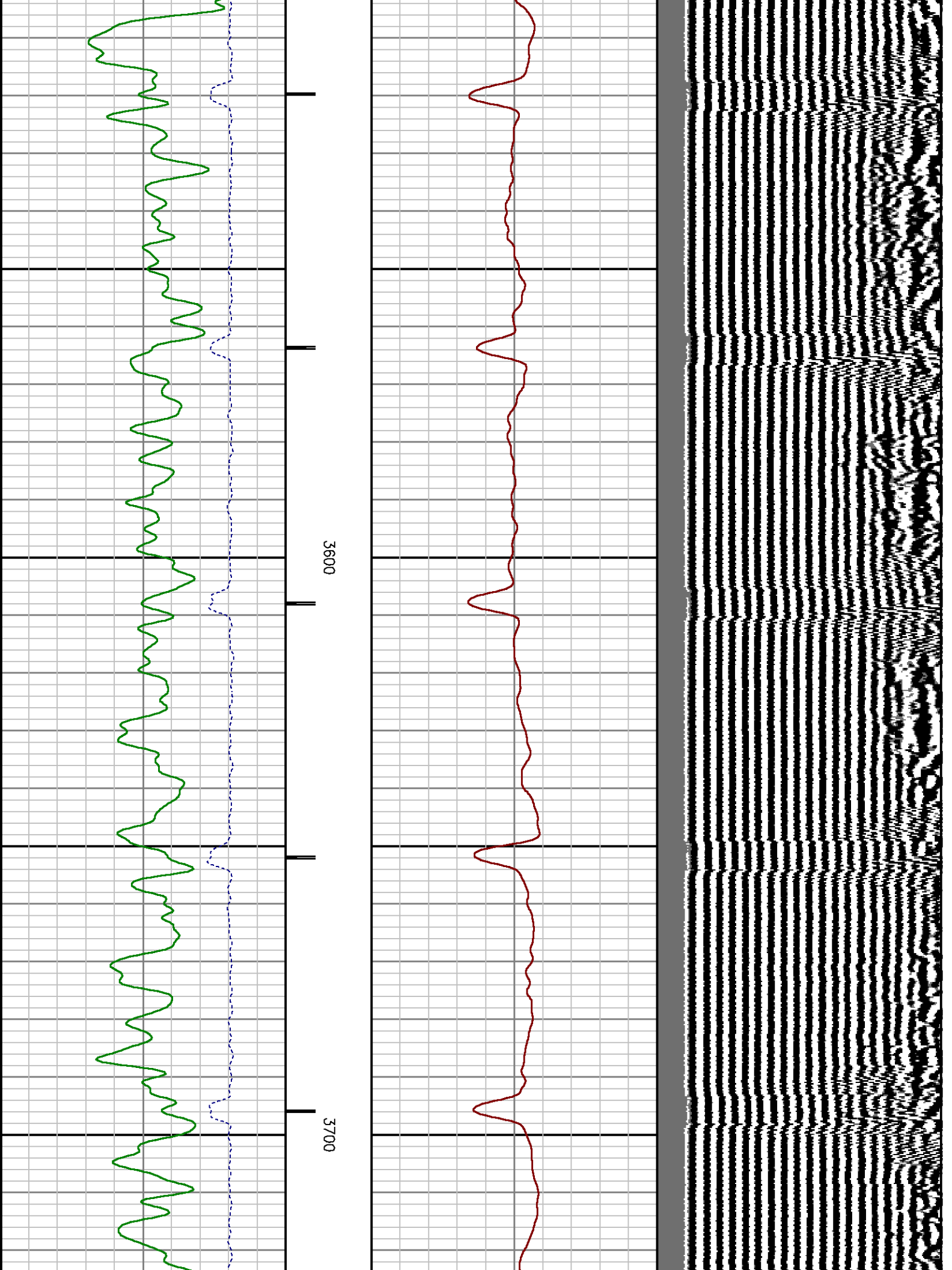


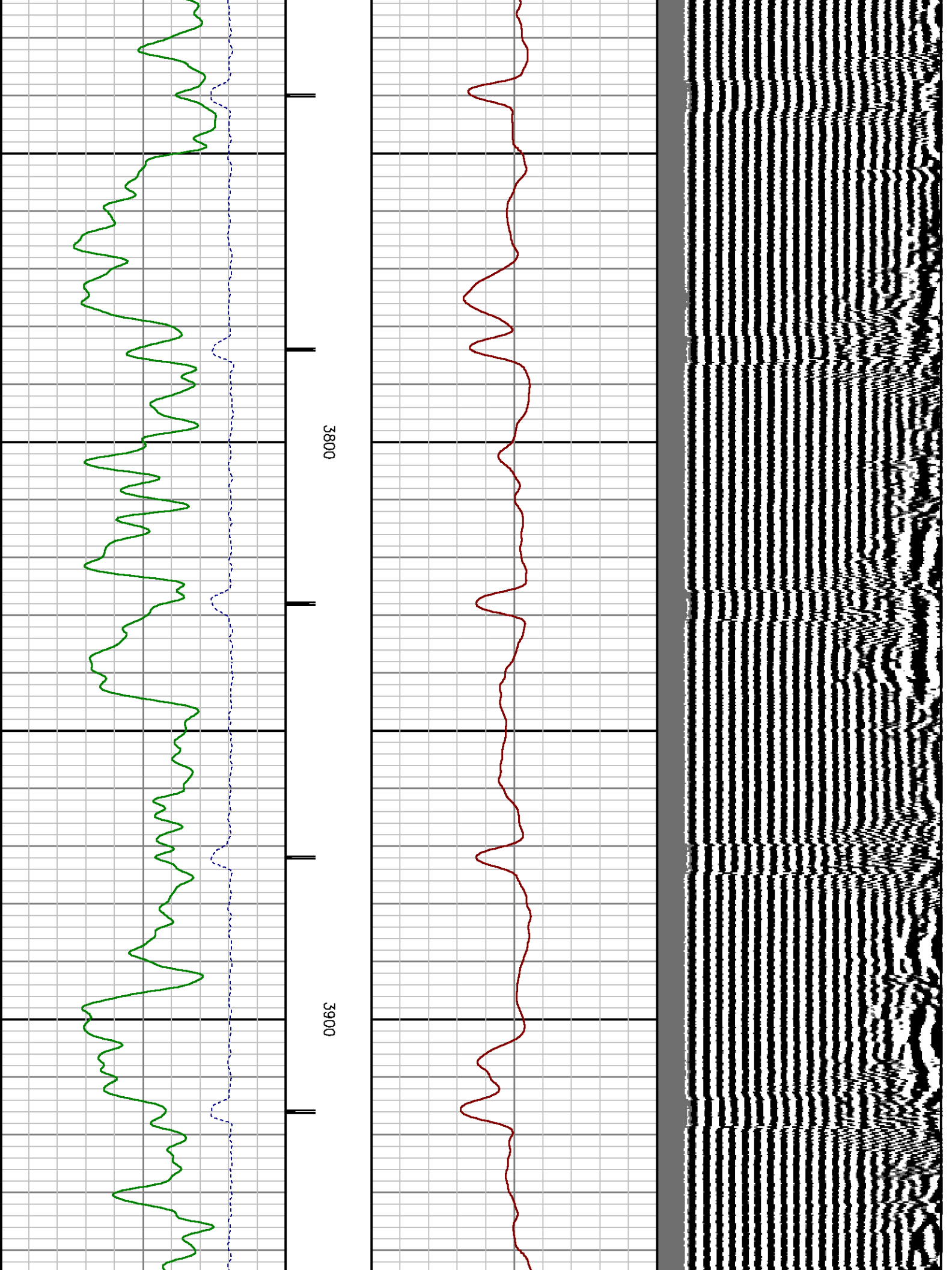


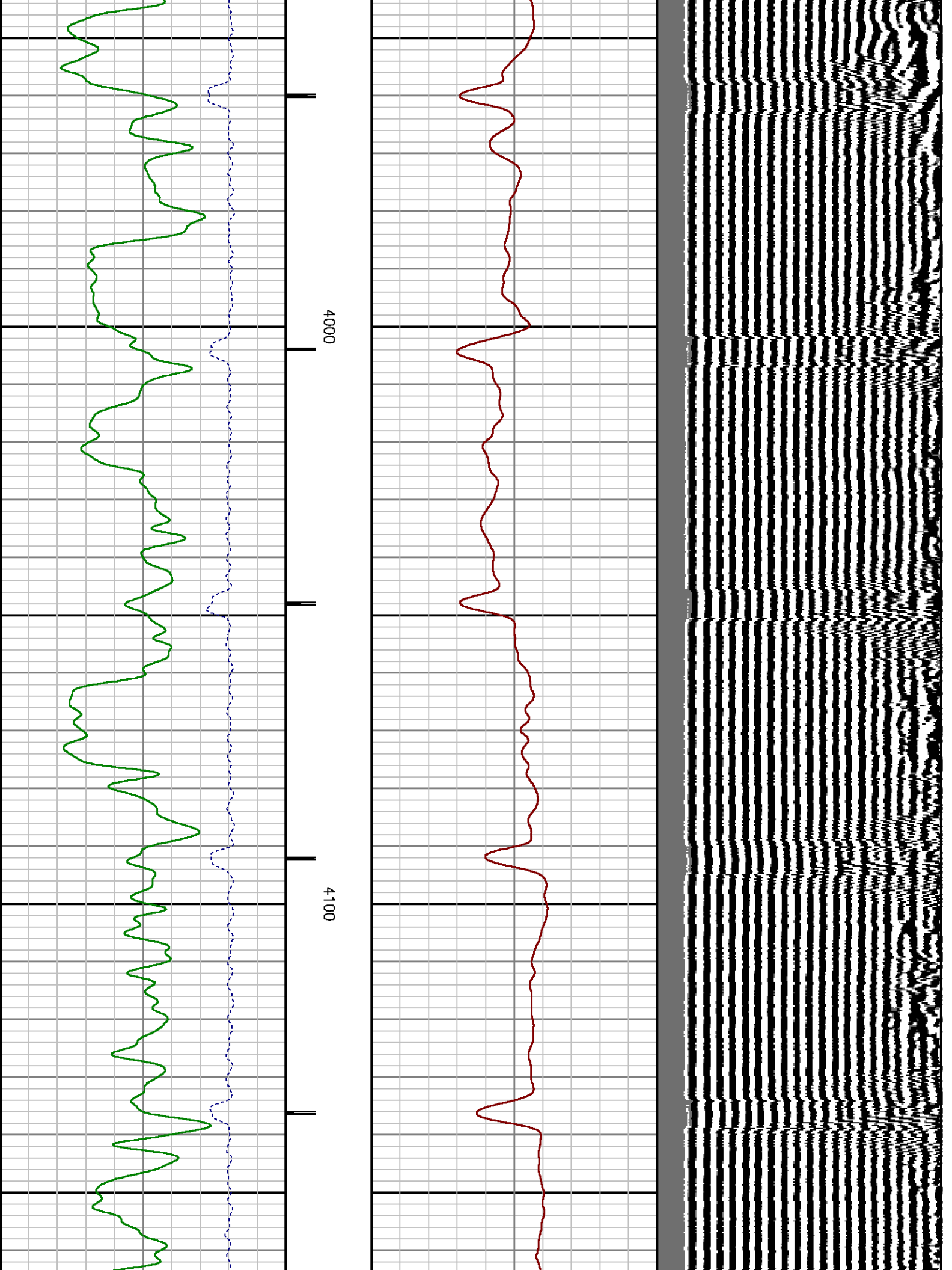


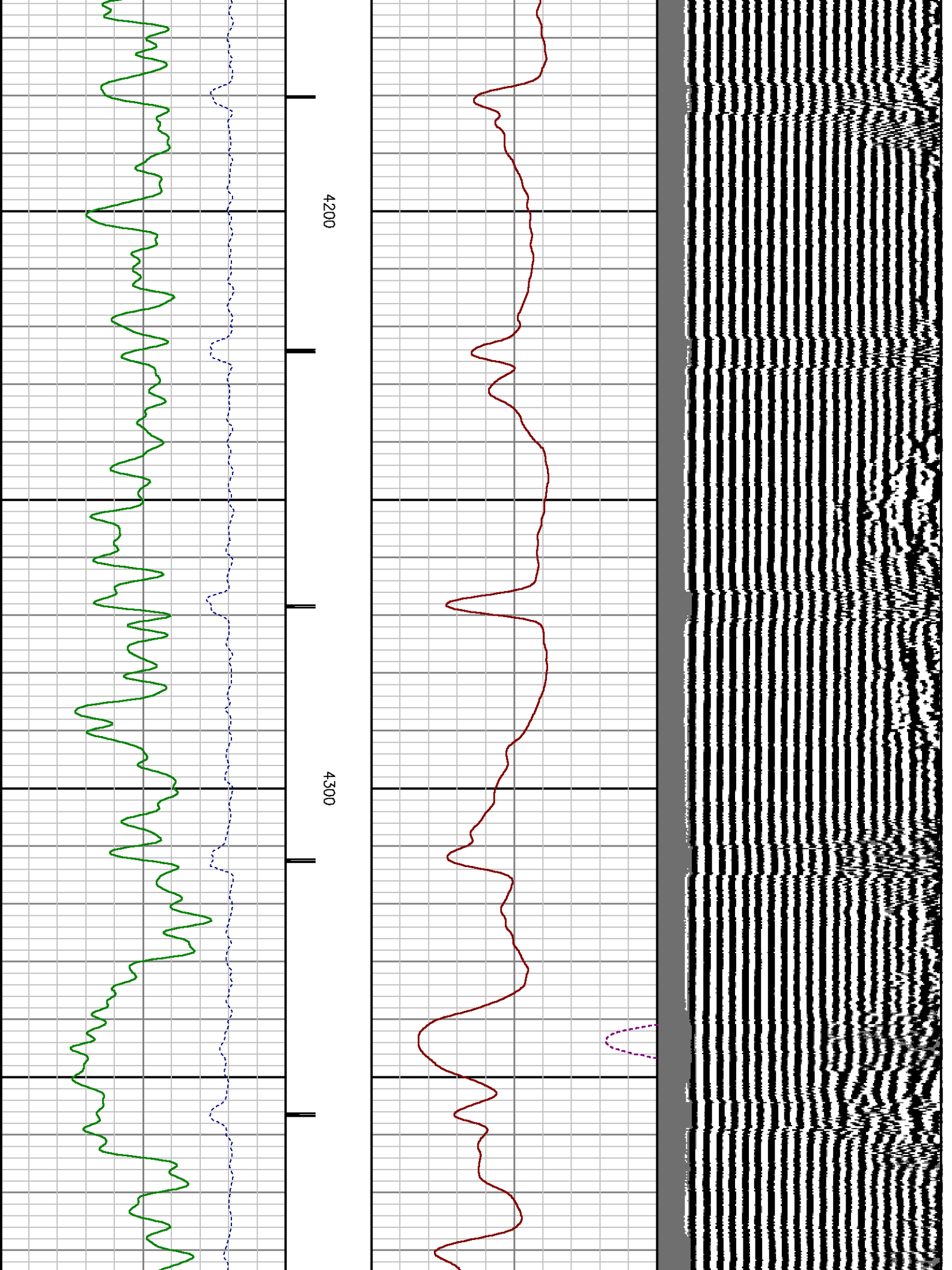


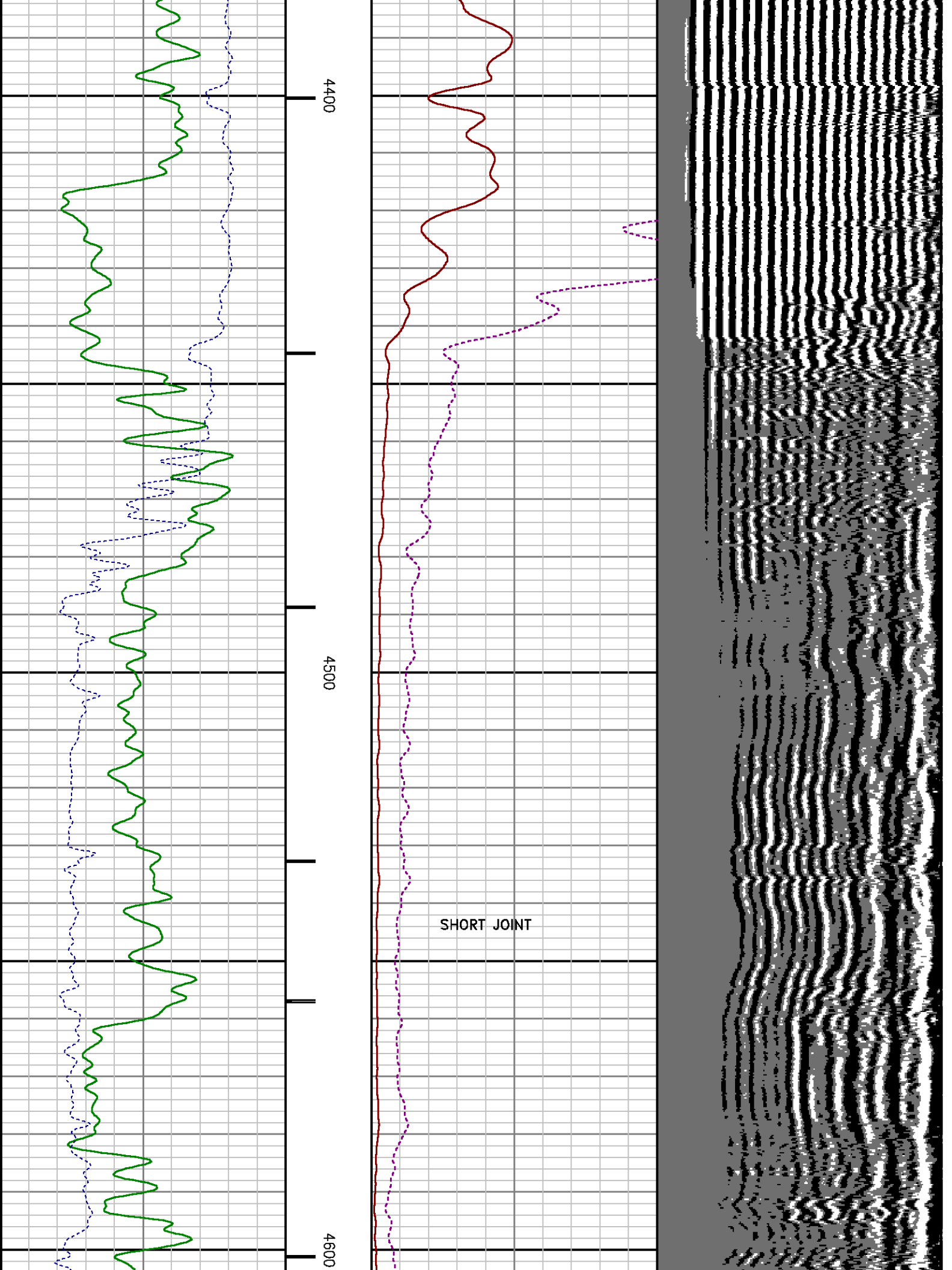


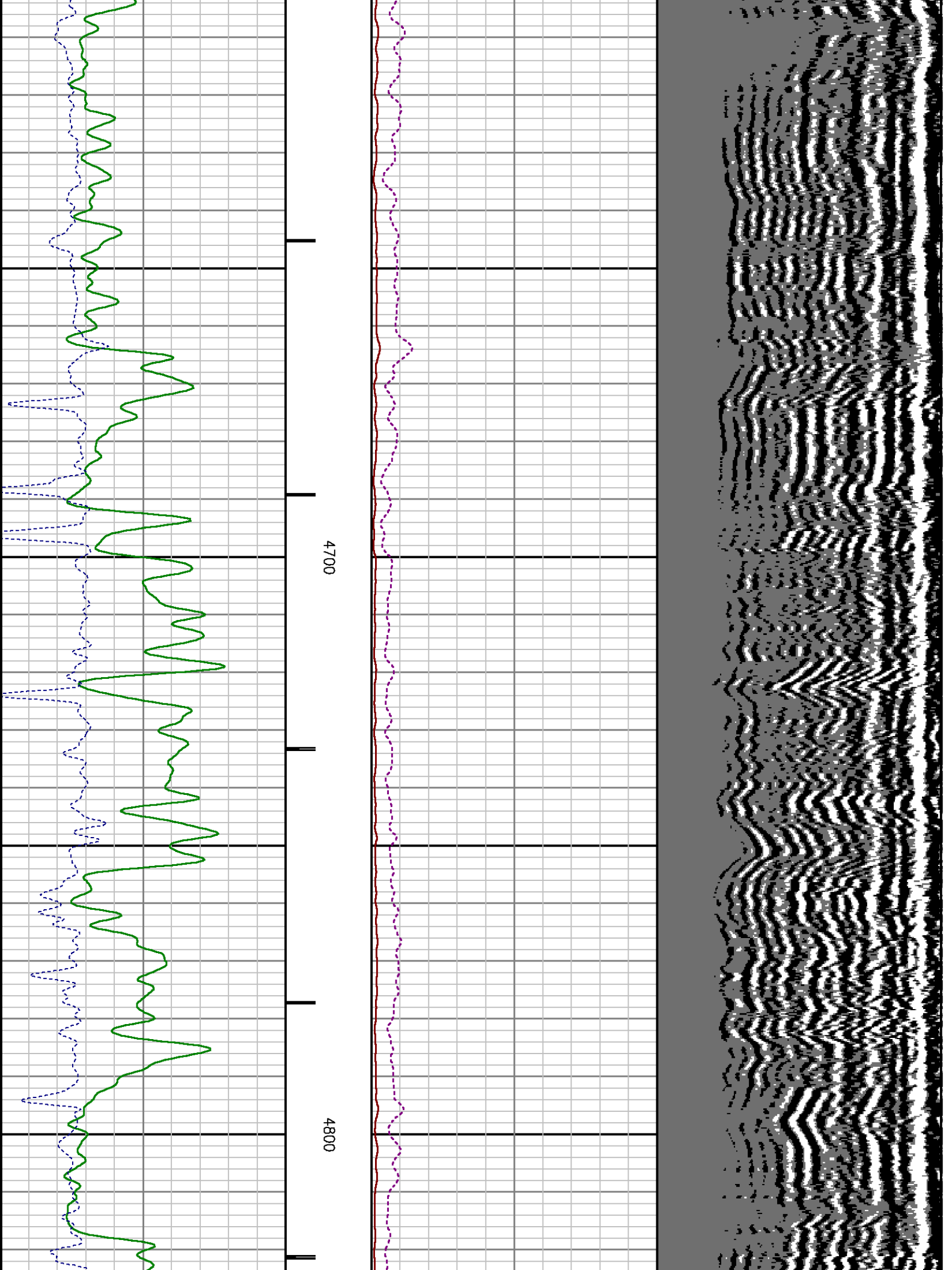


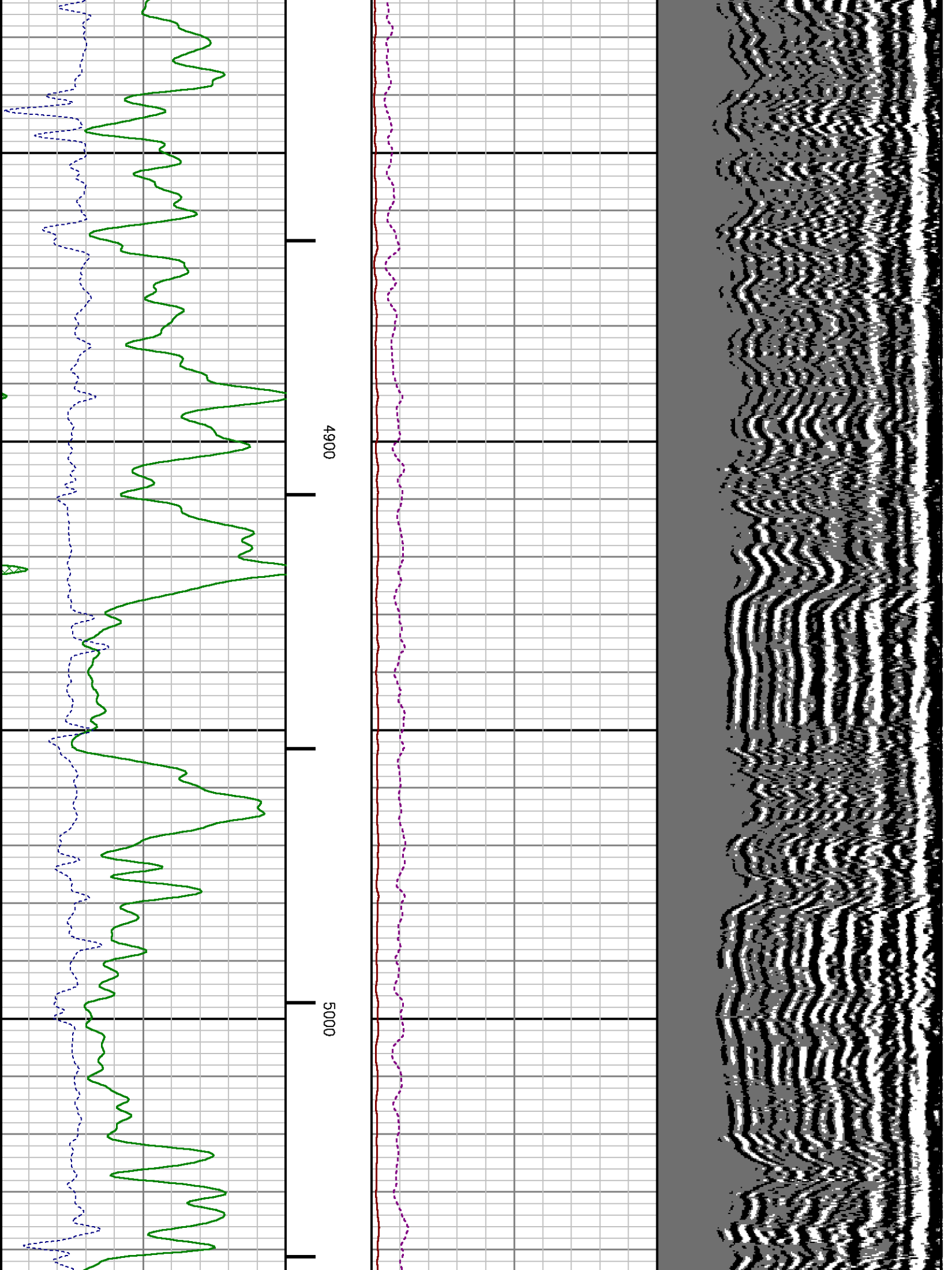


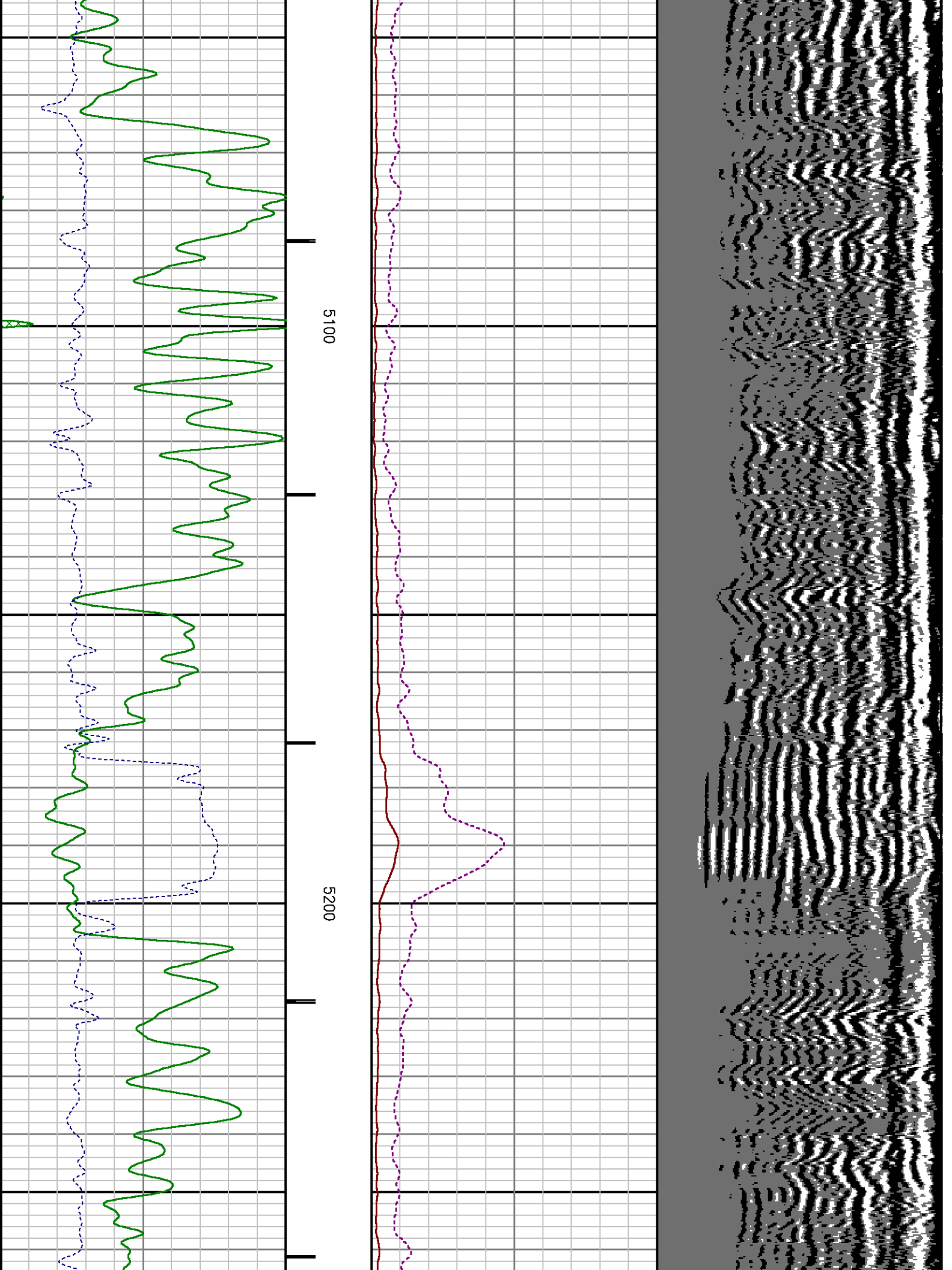


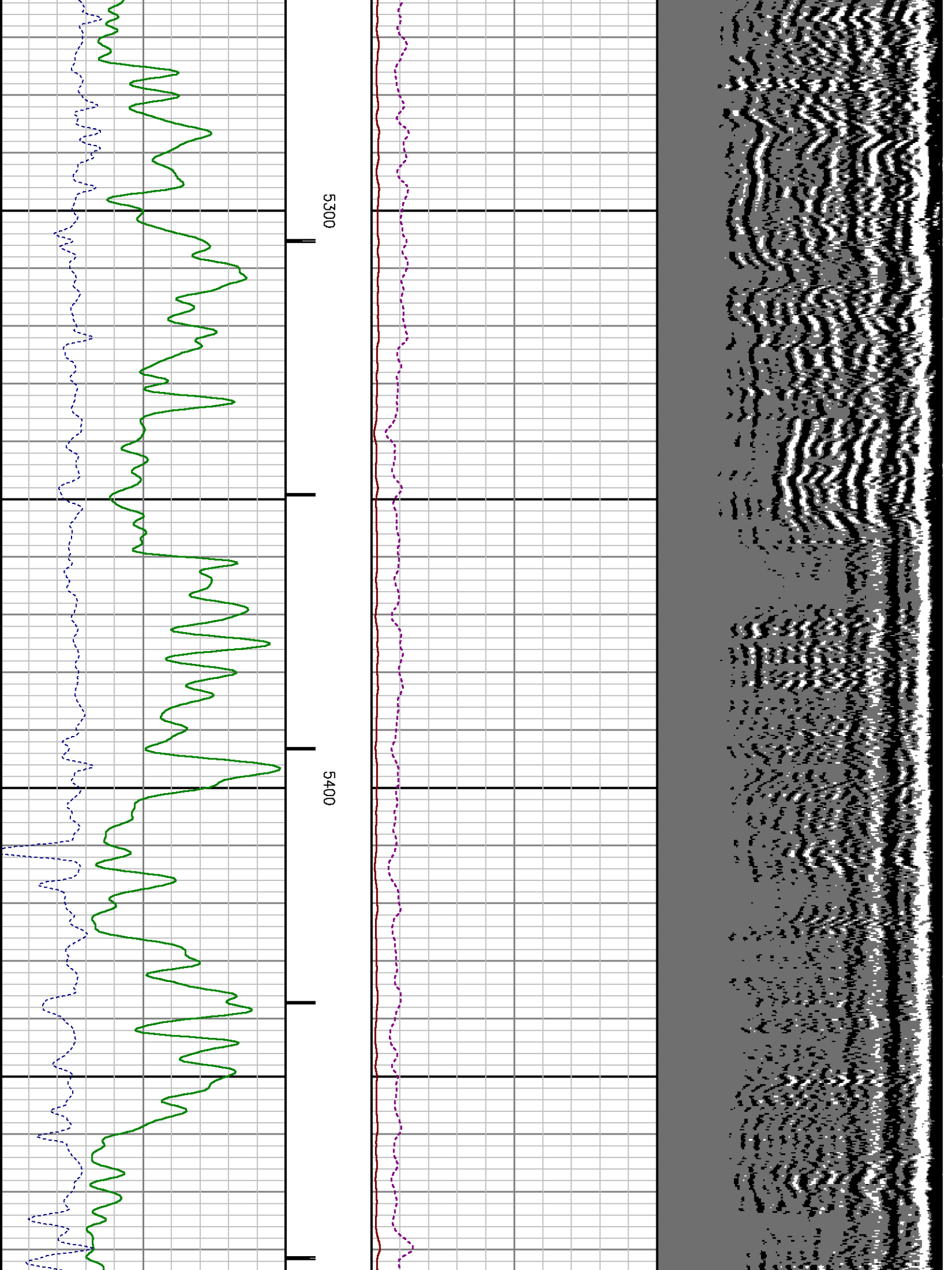


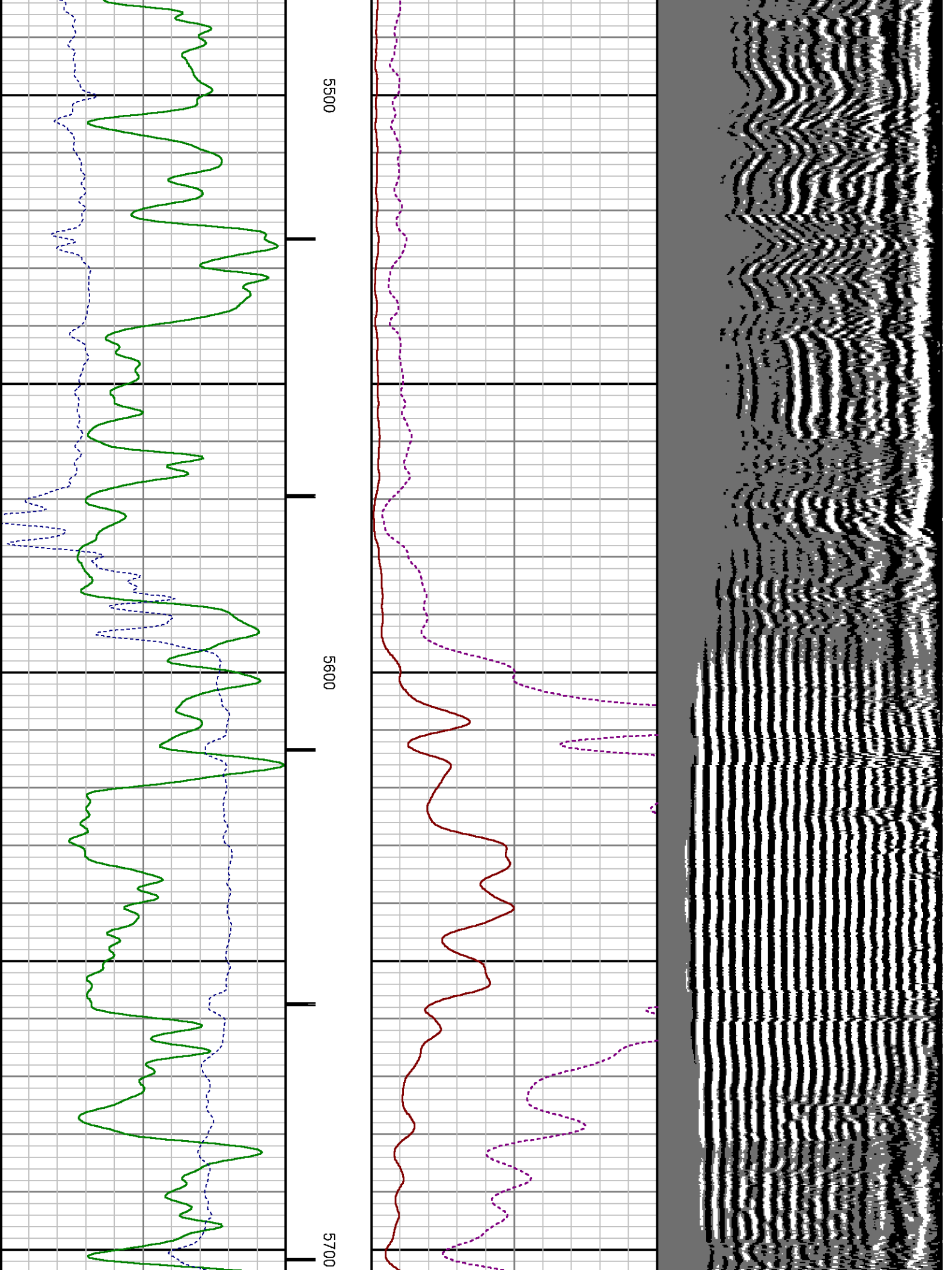


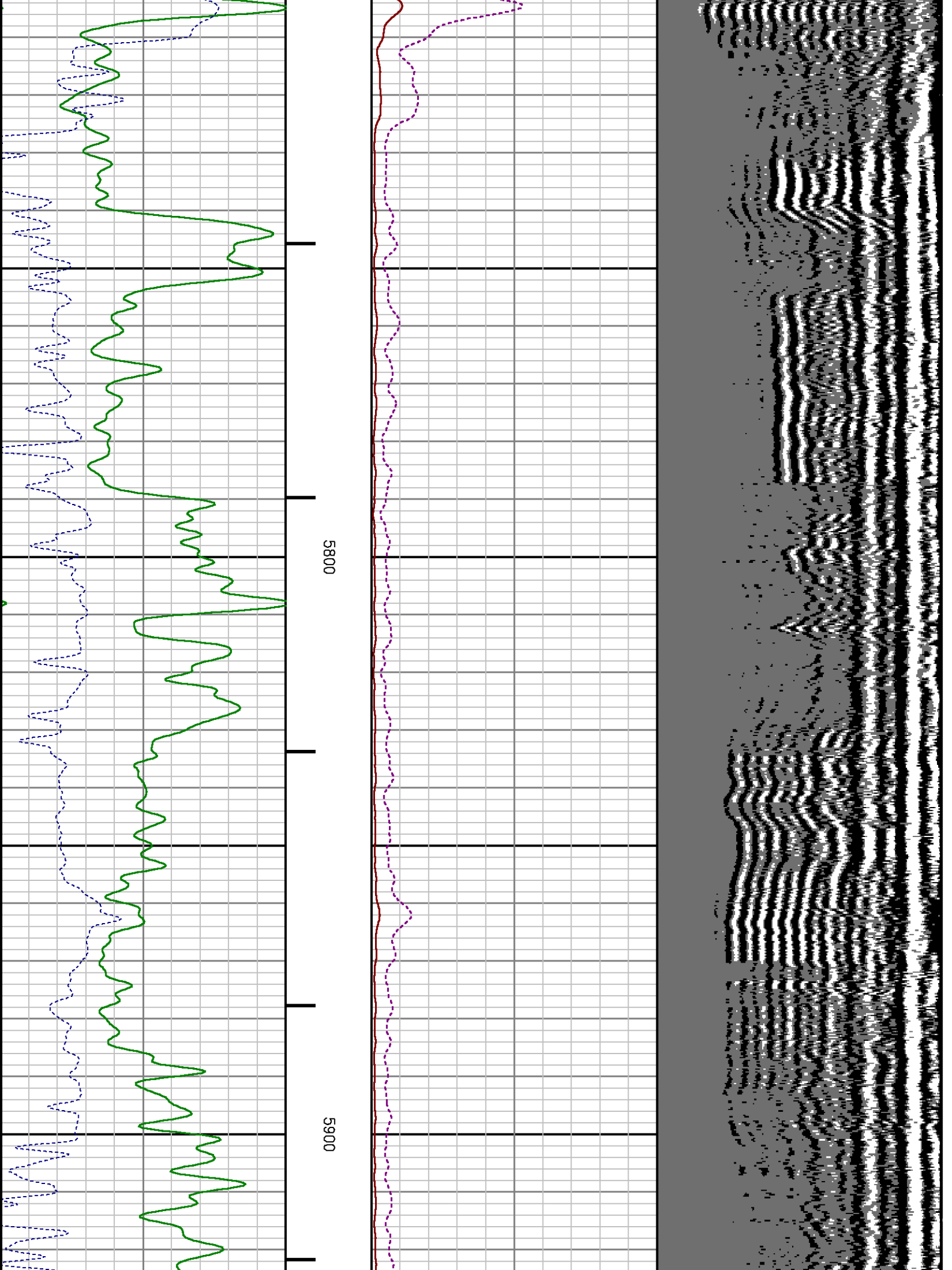


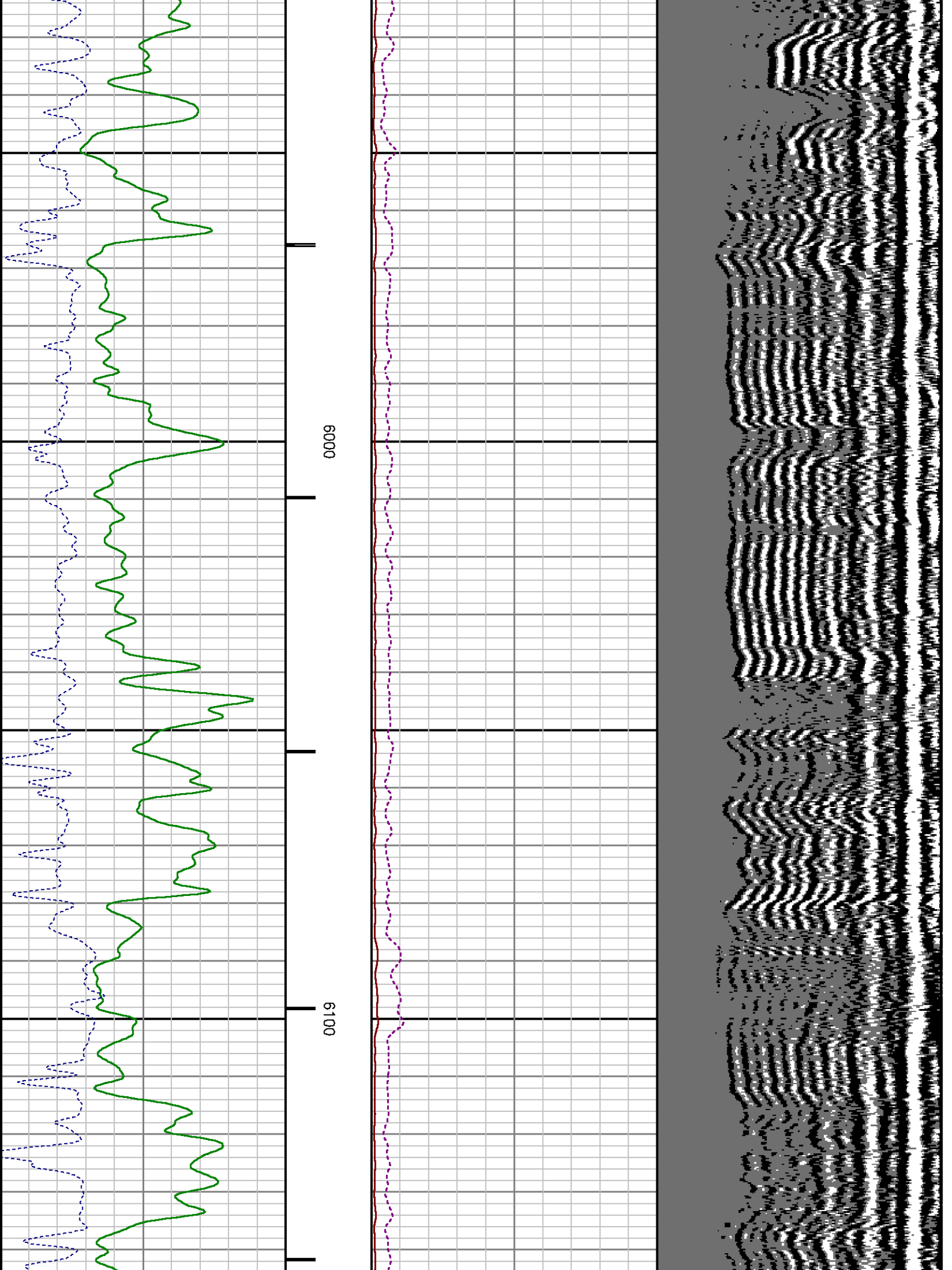


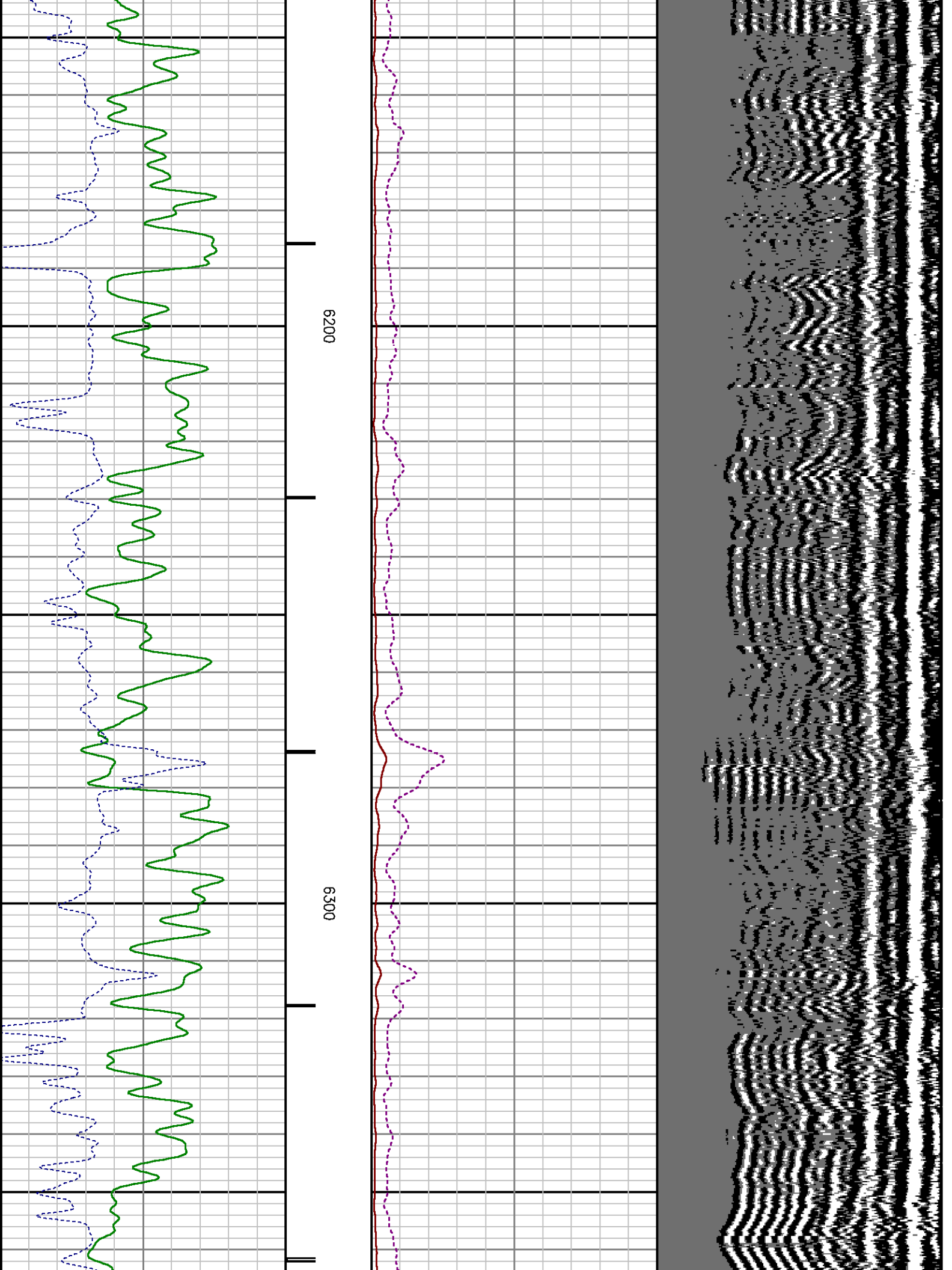


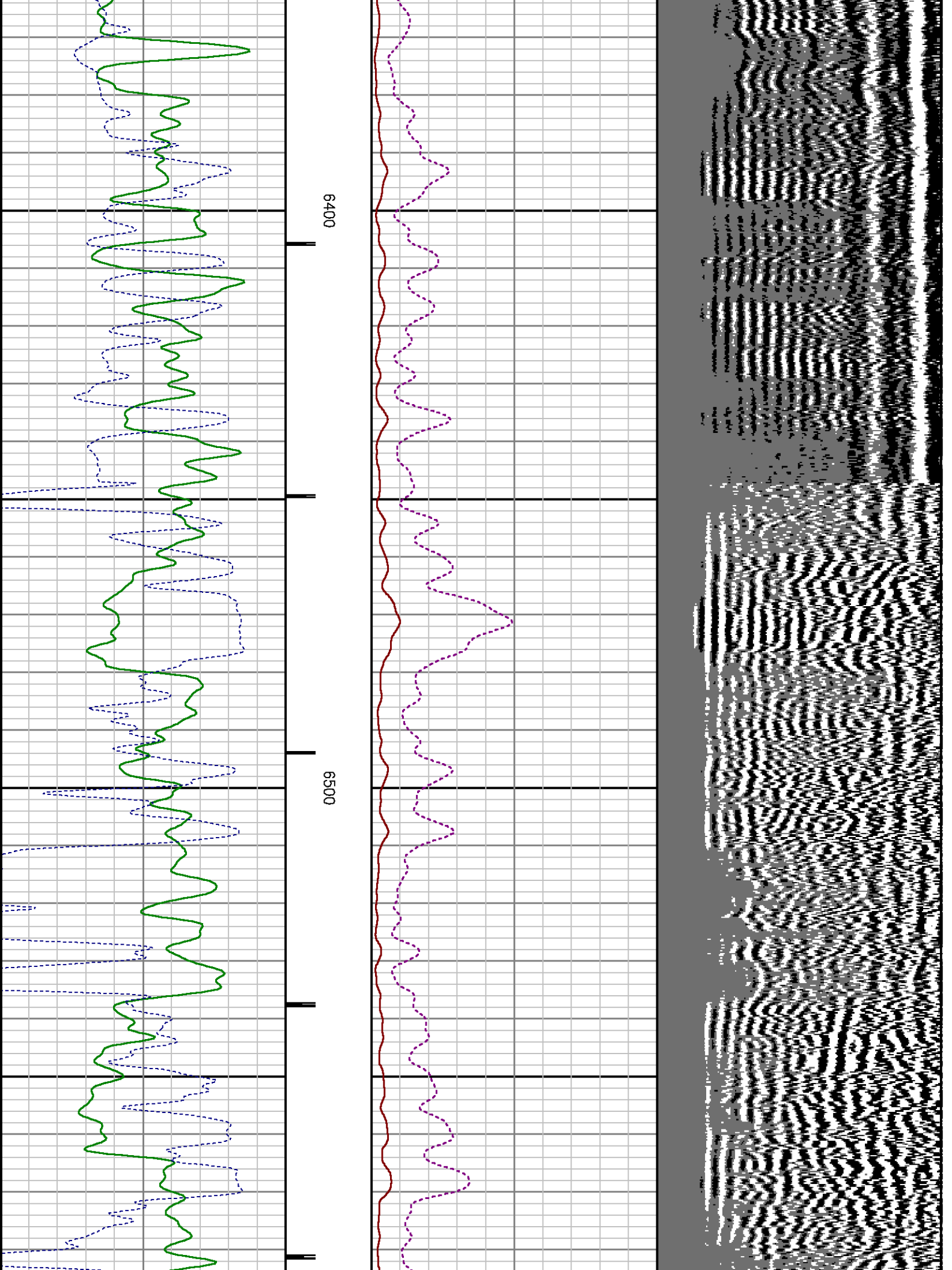


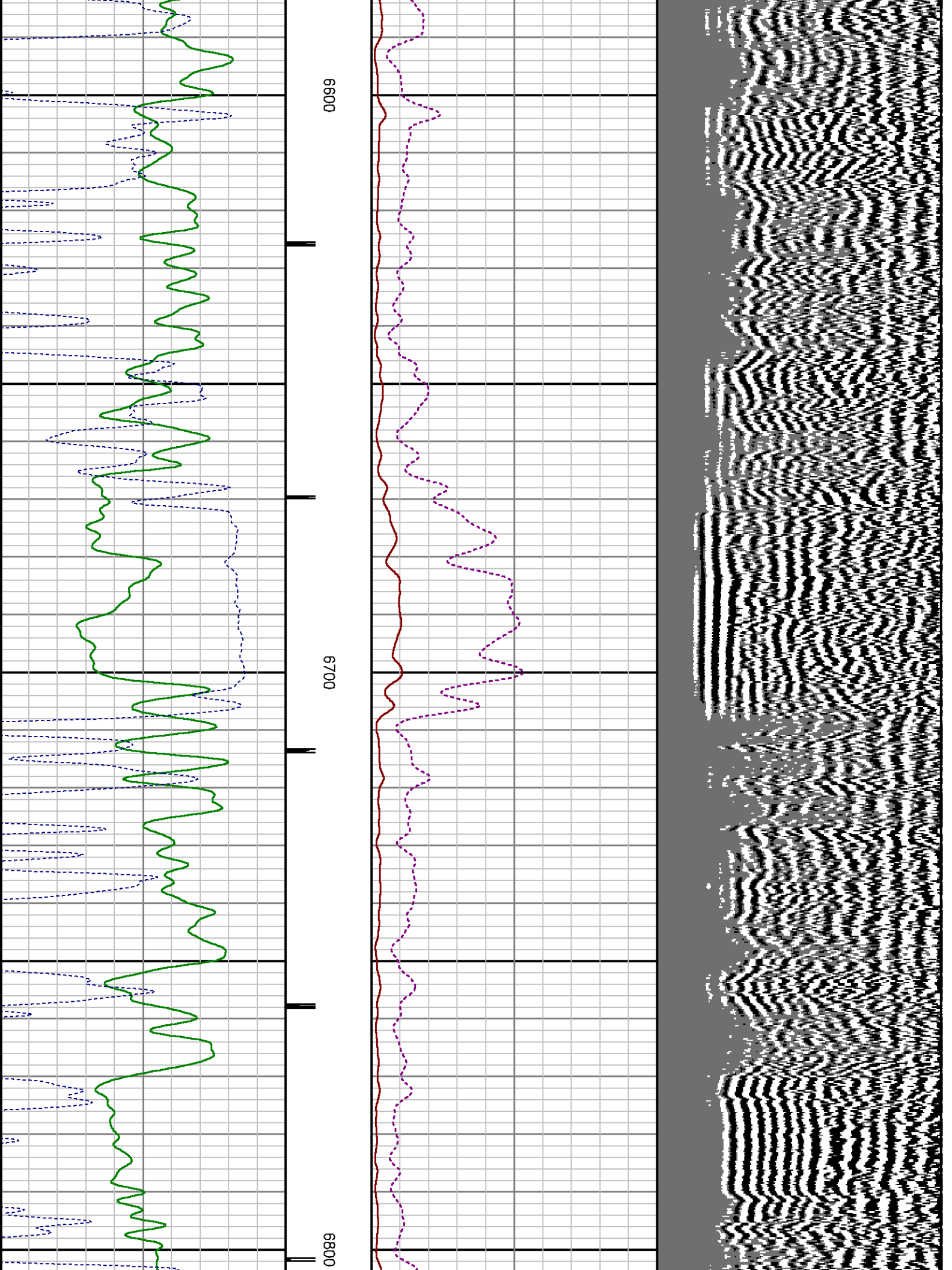


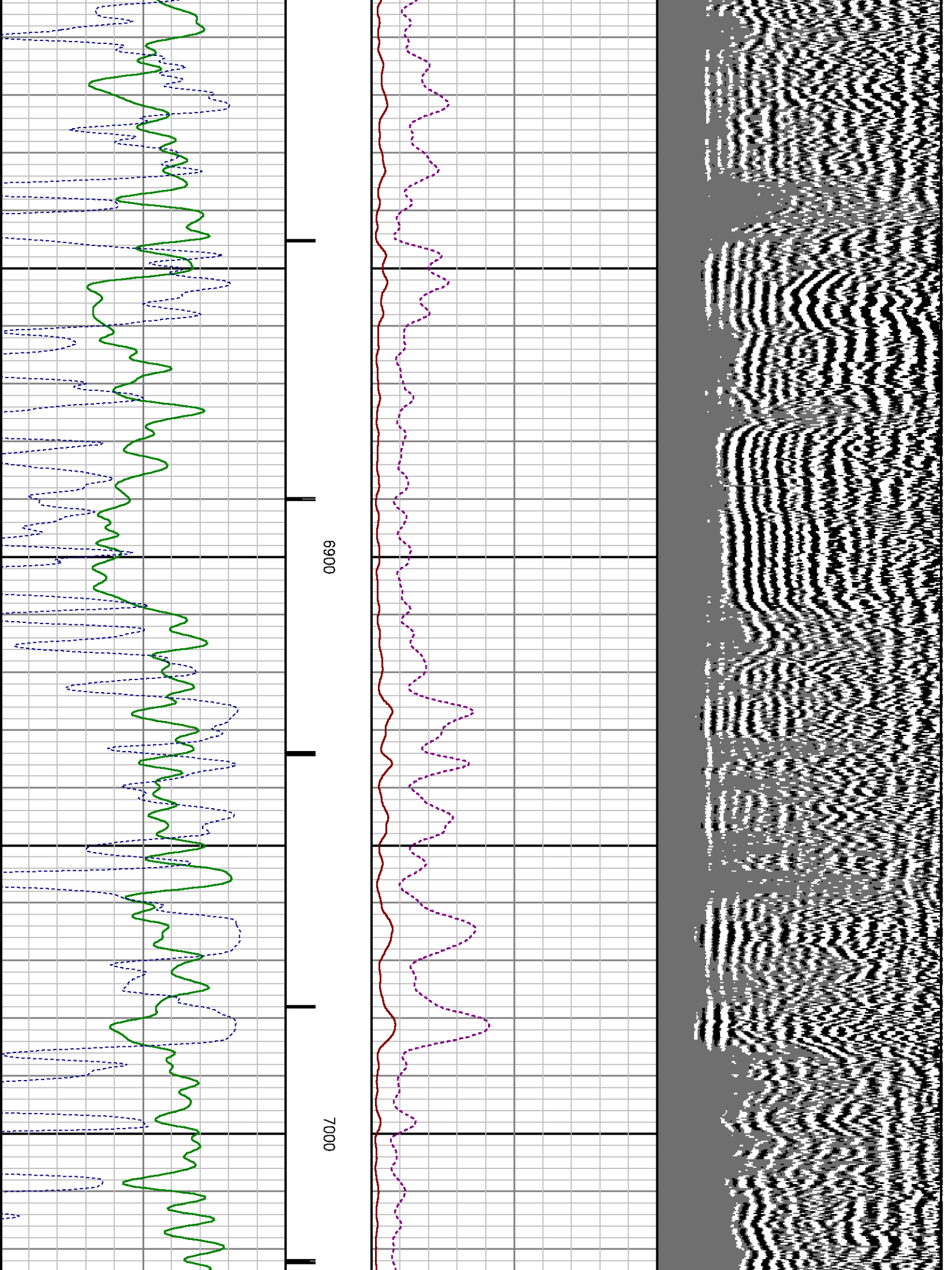


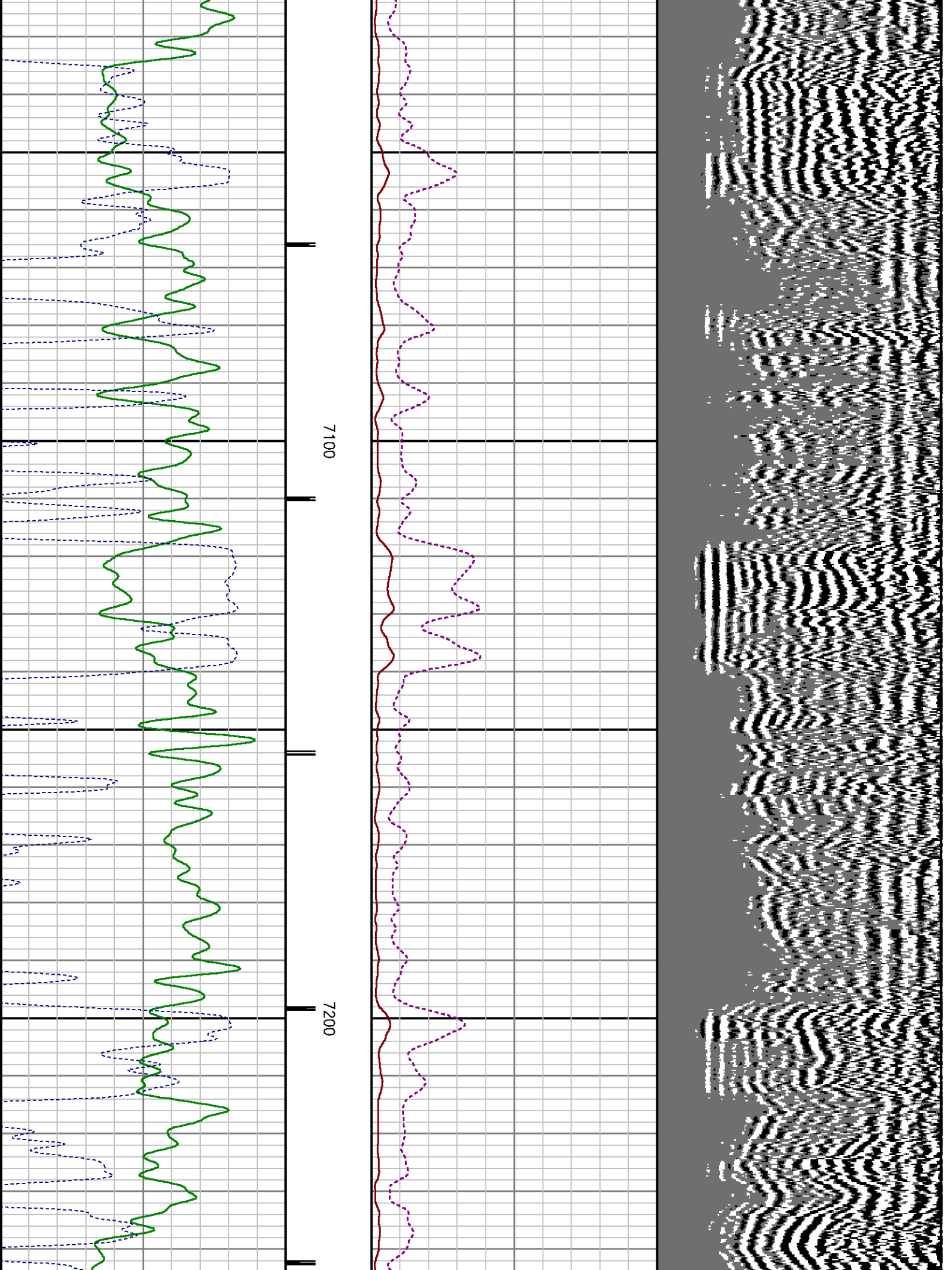


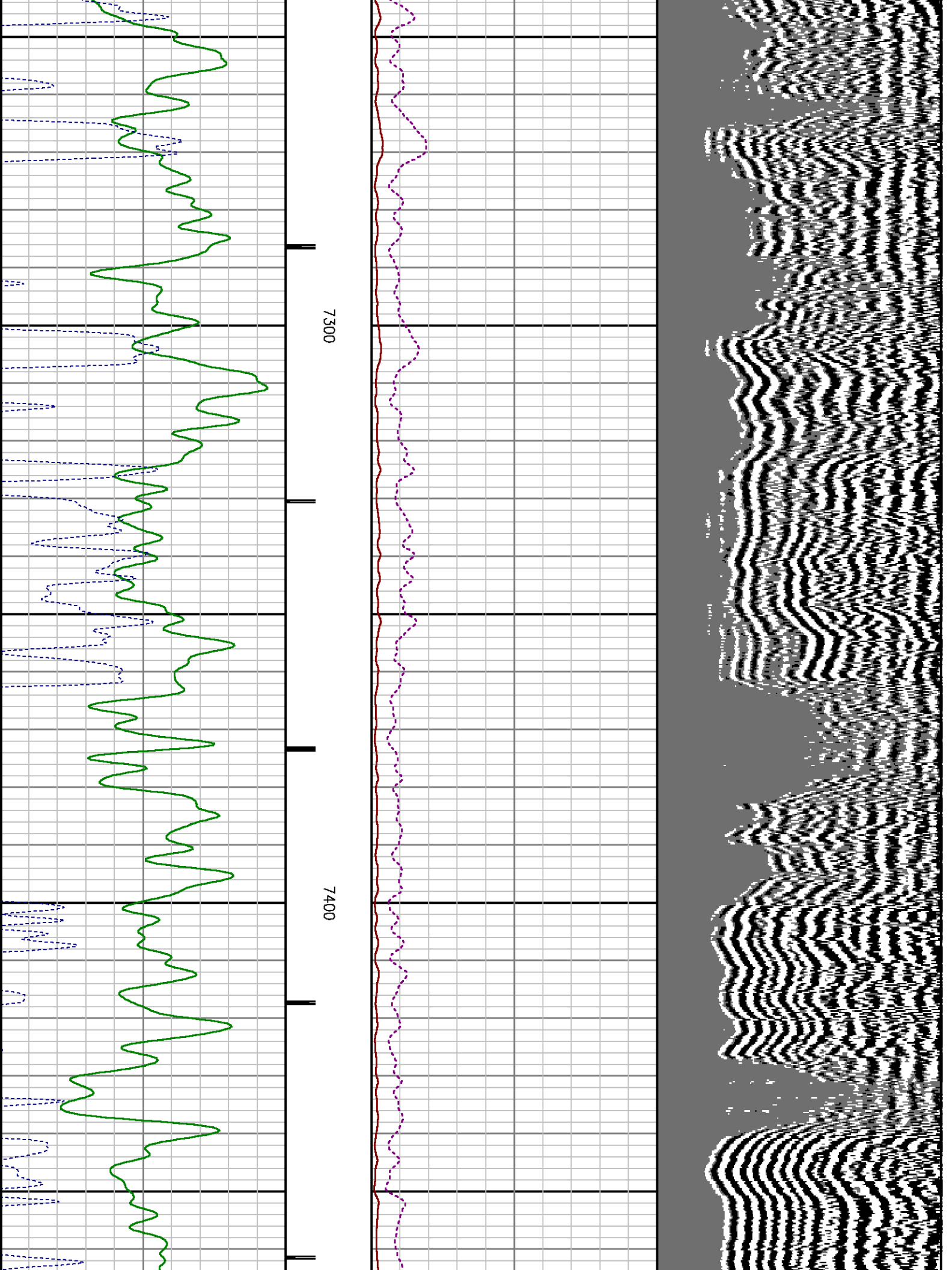


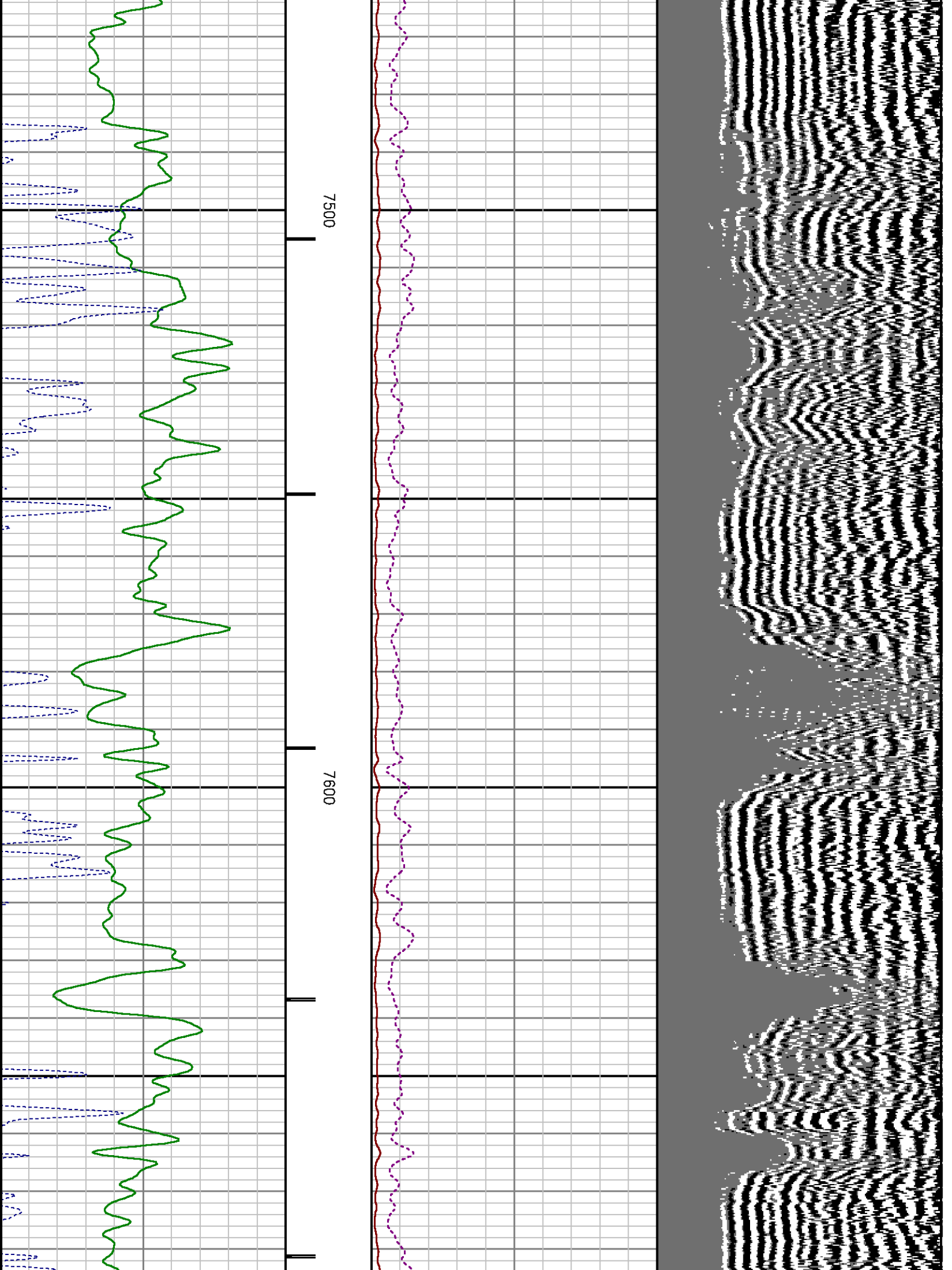












RAL	FB Start Radial	175.391	usec	18.610	6447.300
RAL	FB Thresh Far	10.000	mv	18.610	6447.300
RAL	FB Thresh Near	4.000	mv	18.610	6447.300
RAL	FB Thresh Radial	4.000	mv	18.610	6447.300
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RAL	FB Start Radial	175.391	usec	6447.300	7097.300
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RAL	Fluid Travel Time	200.000	usec/ft	7097.300	7777.300

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

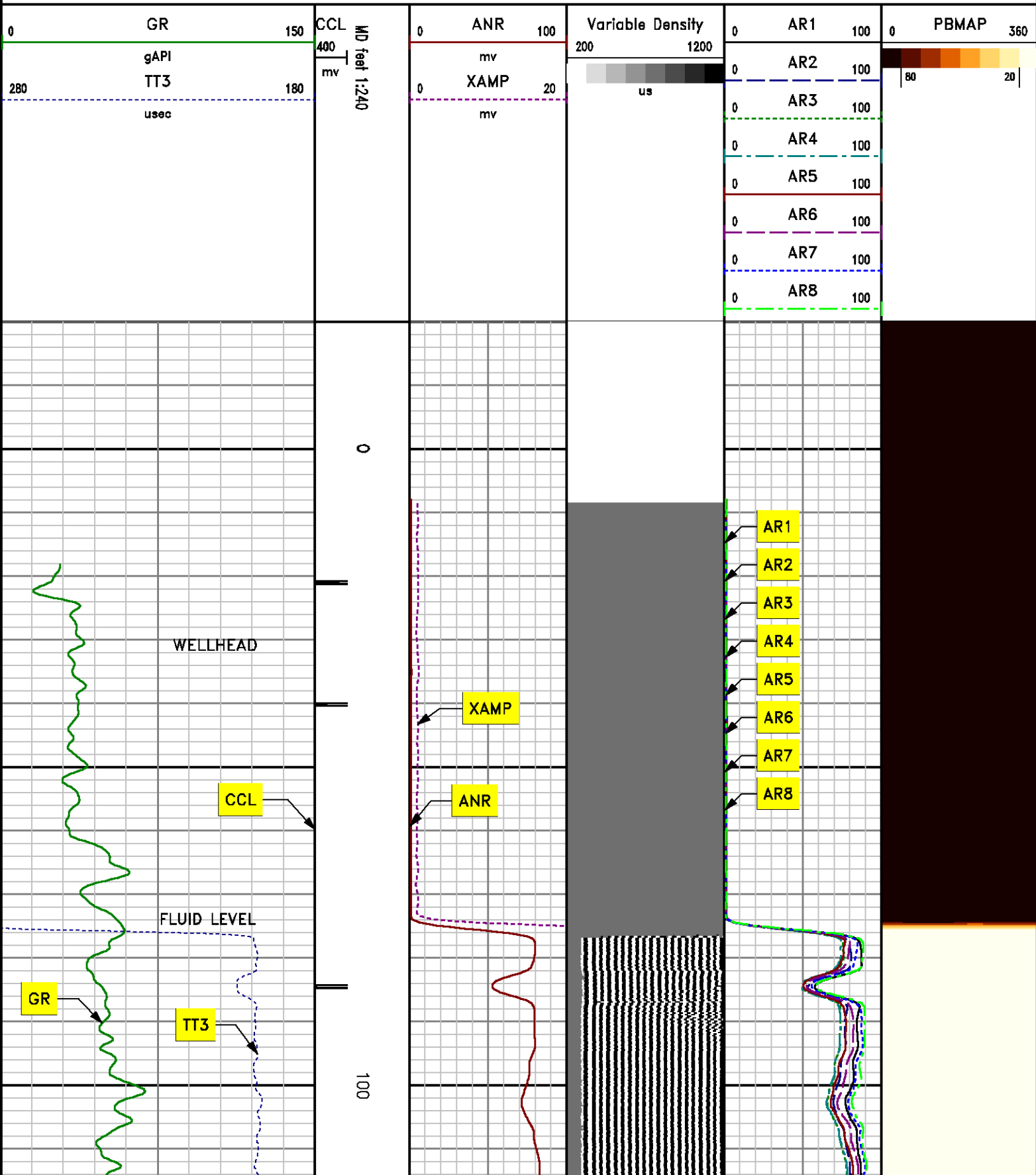
Well : GOLDSBOROUGH PA 512-11

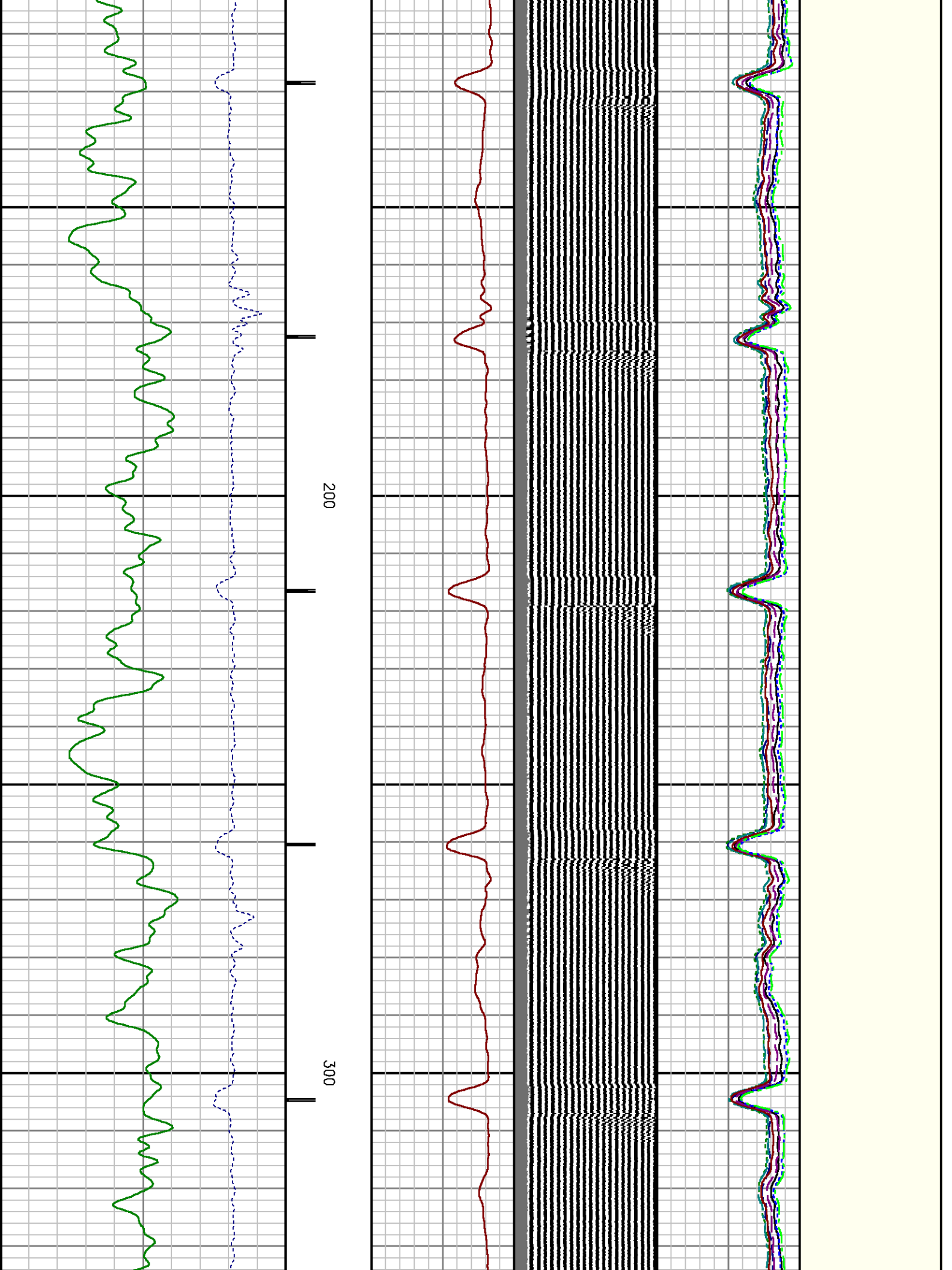
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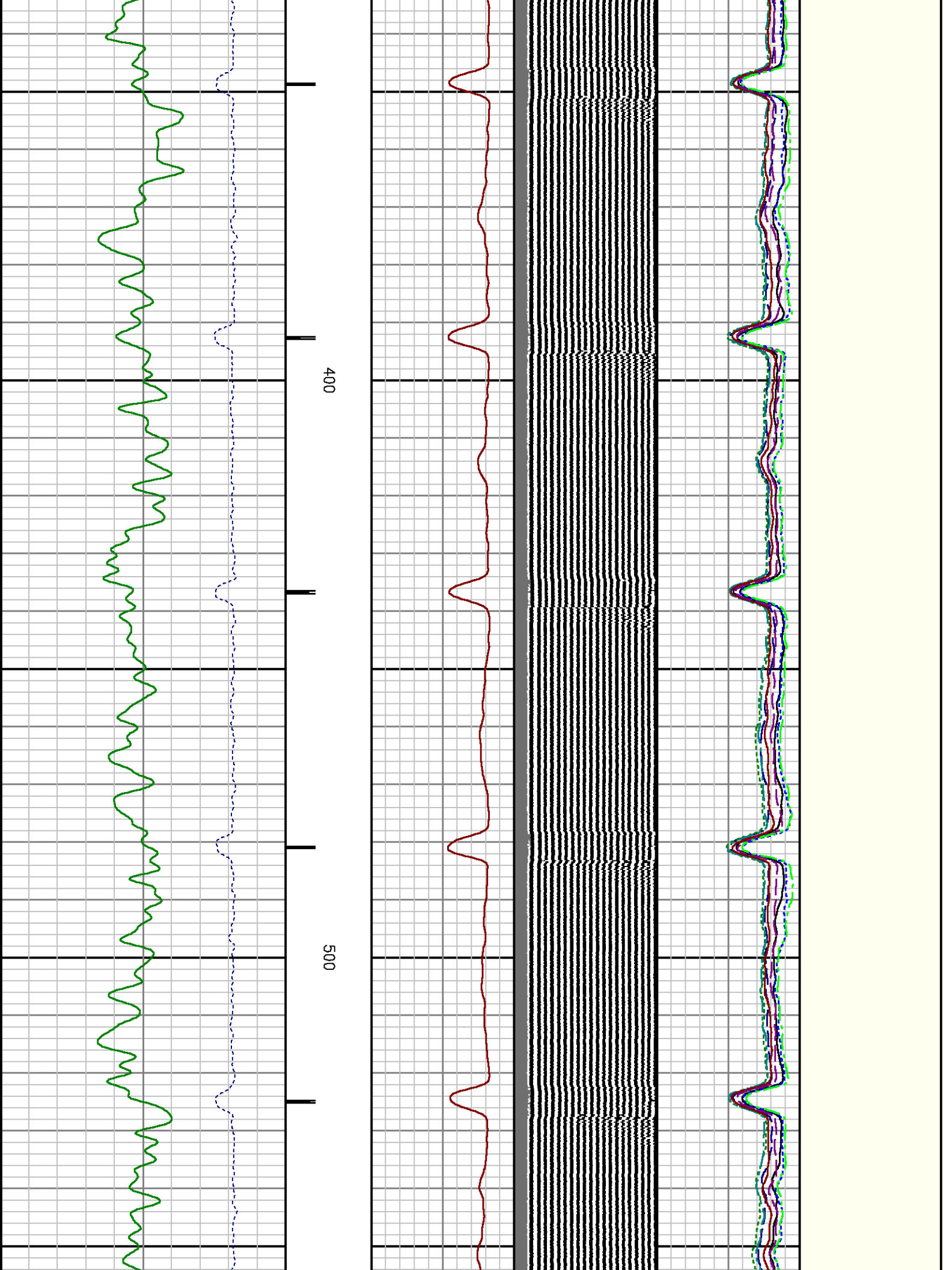
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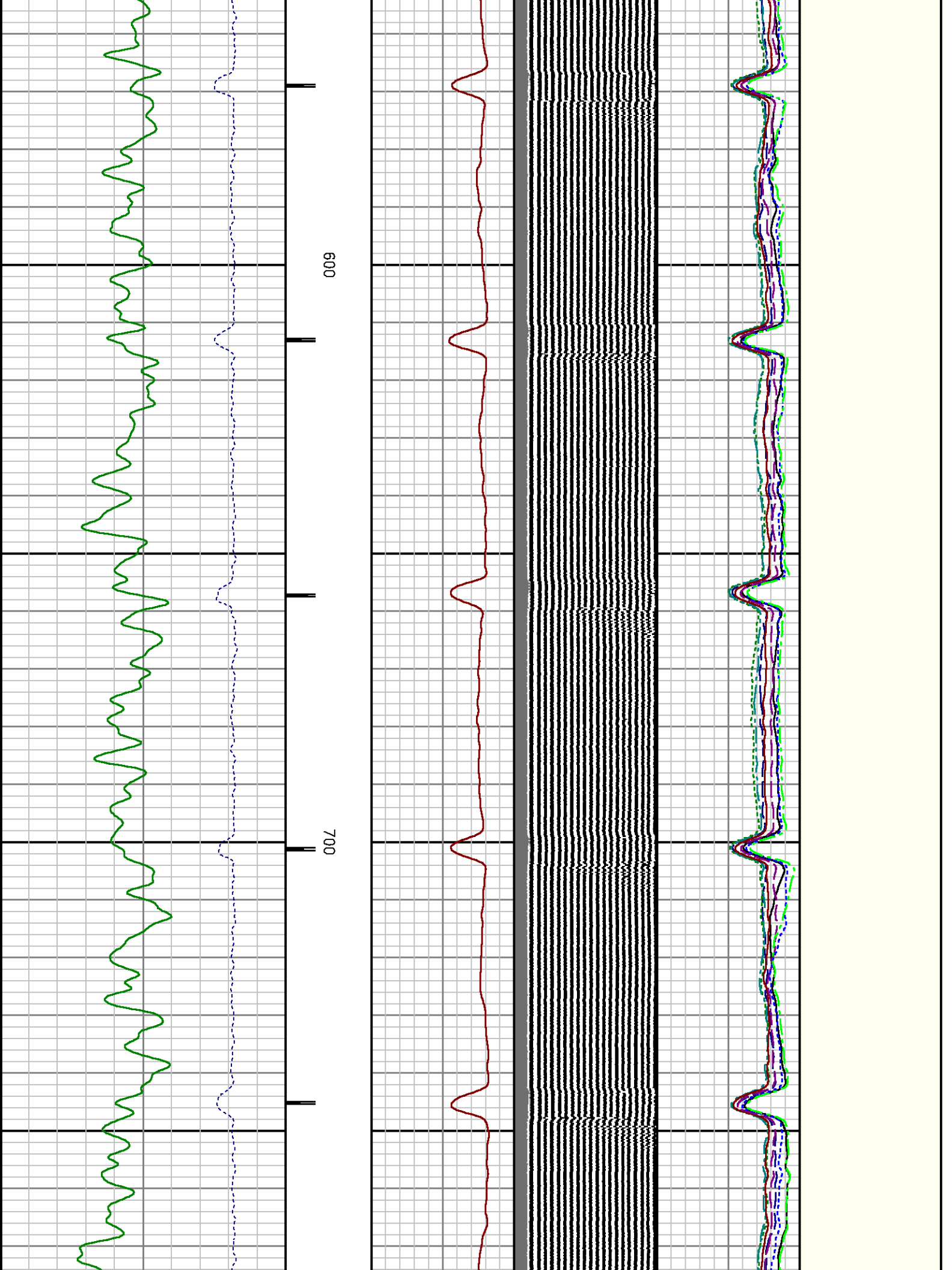
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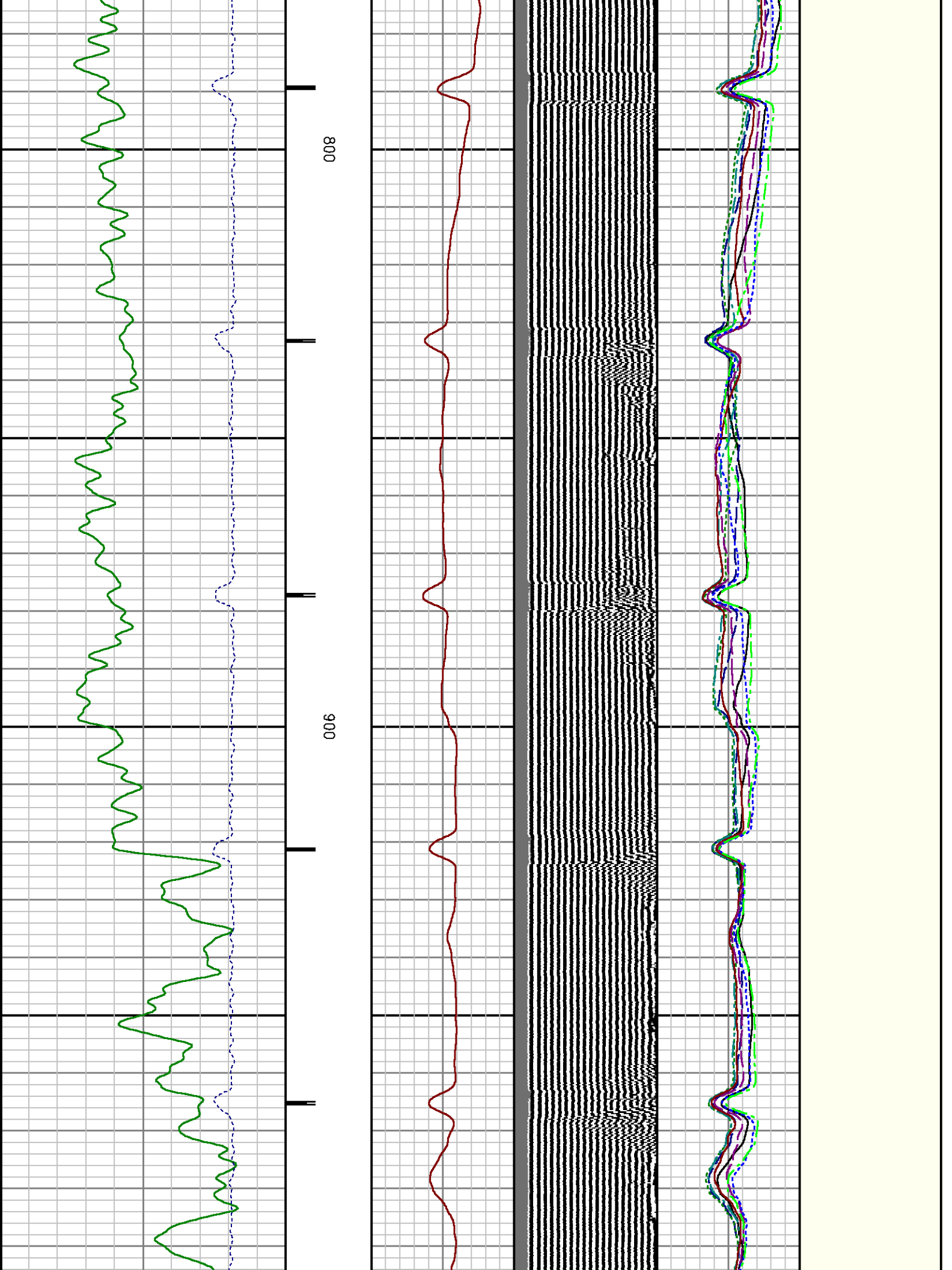
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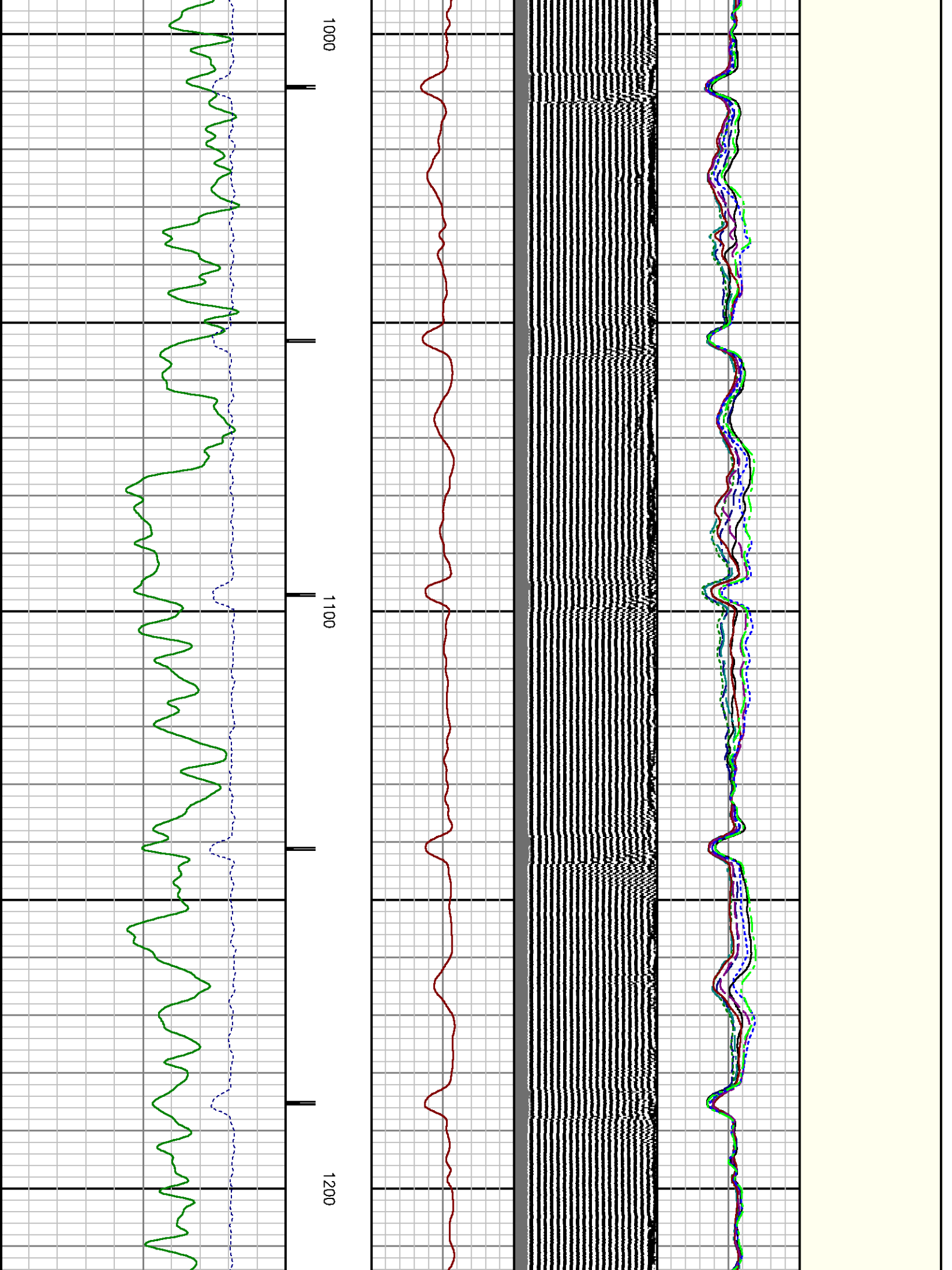


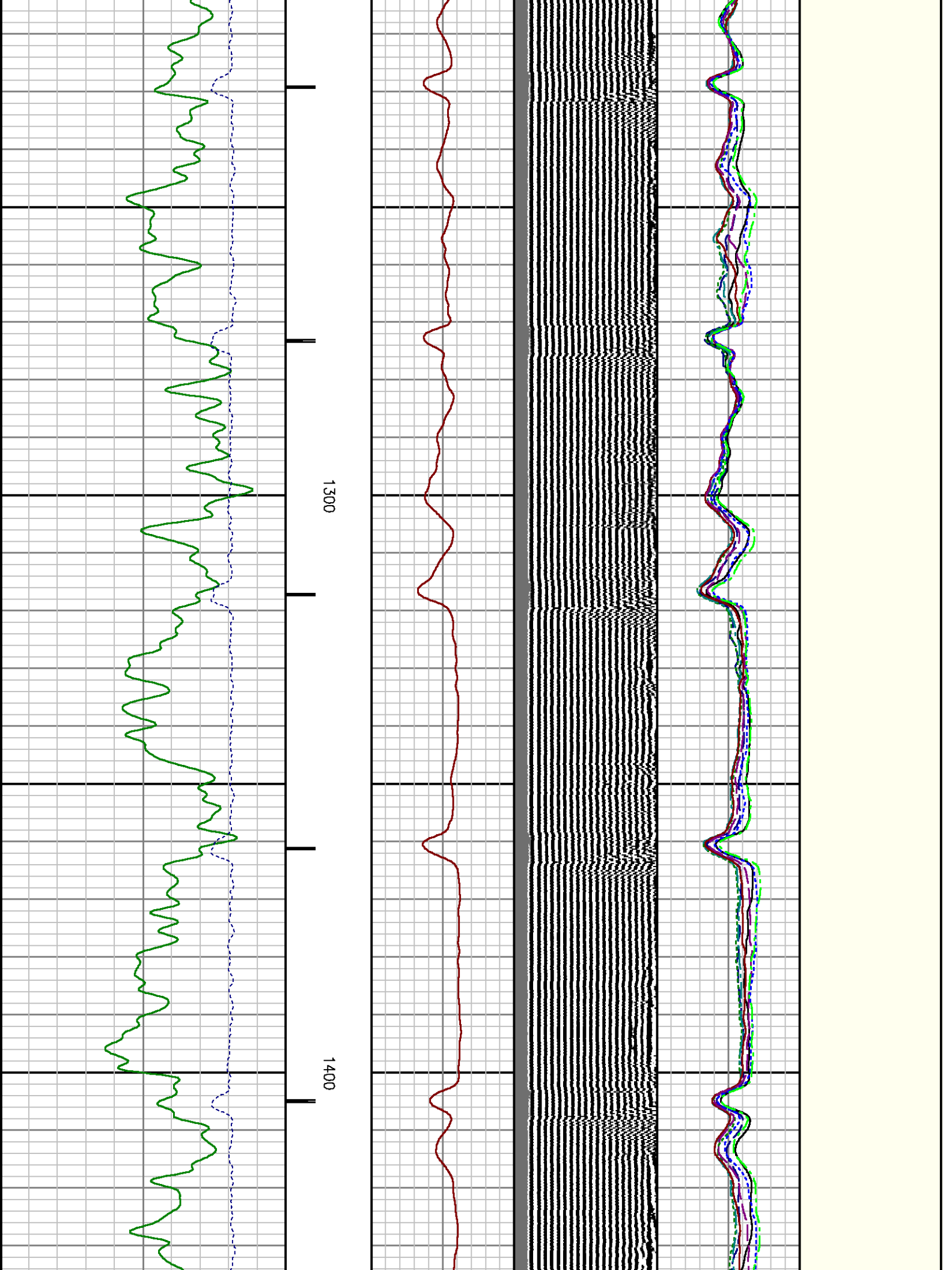


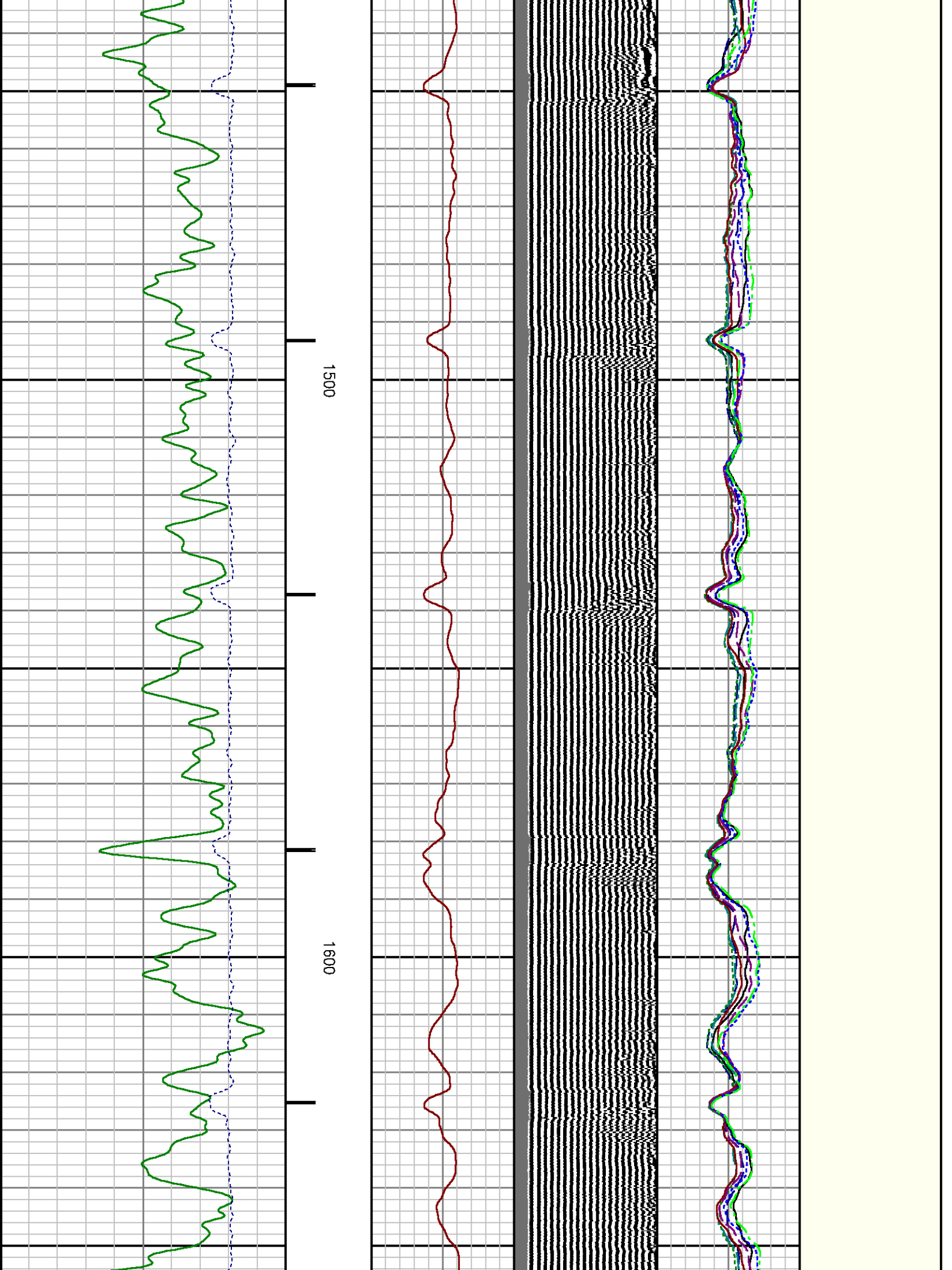


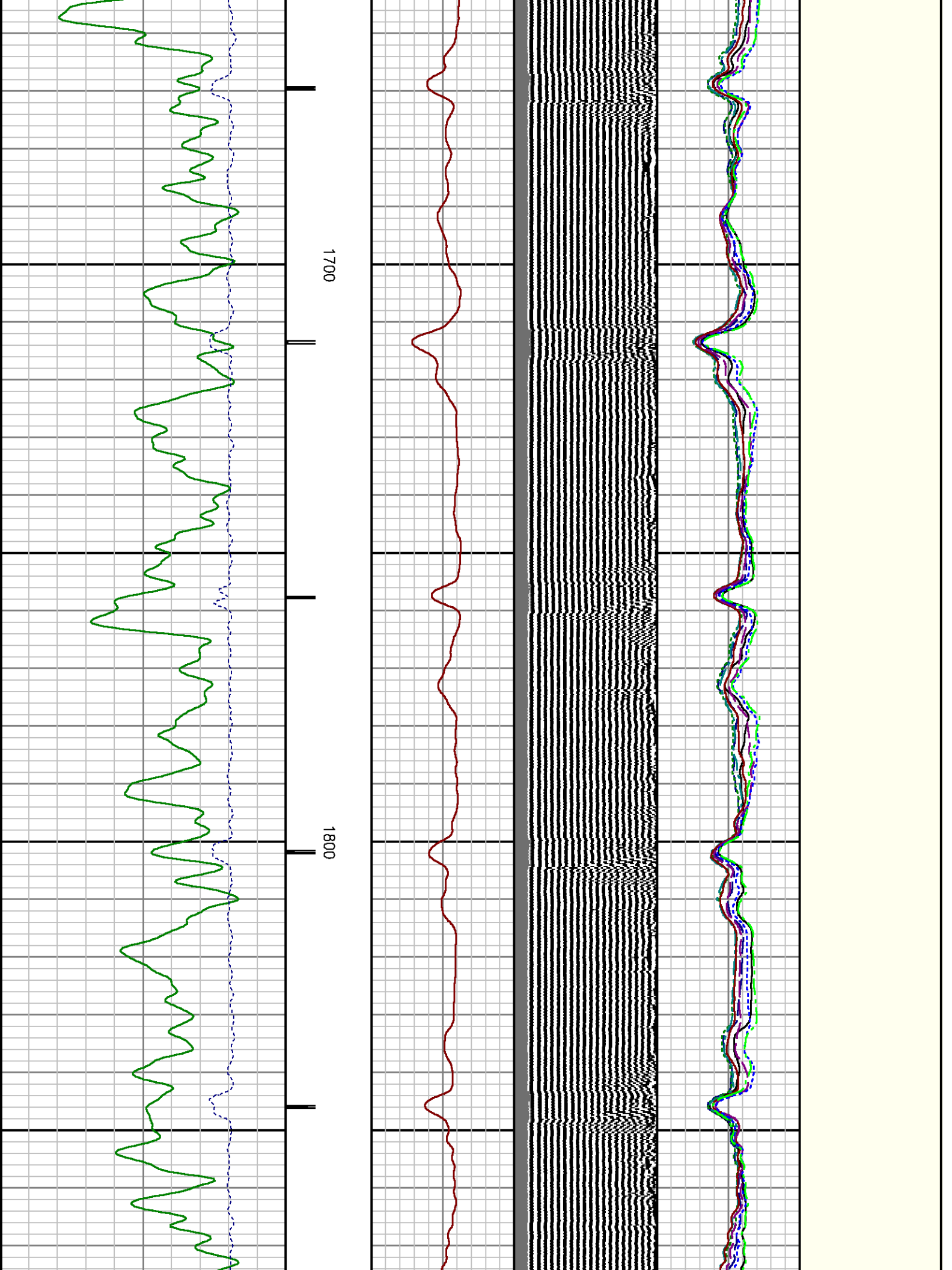


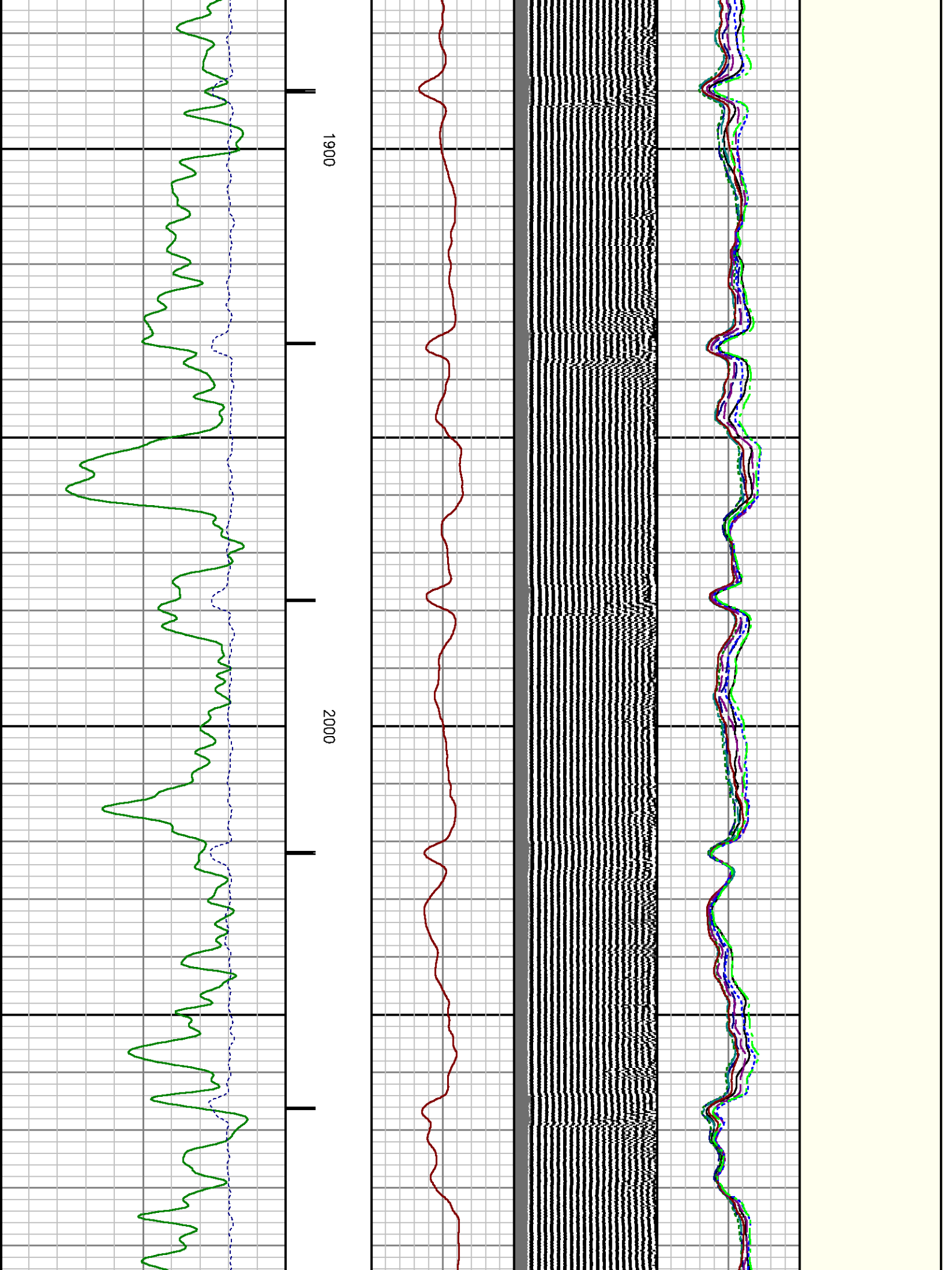


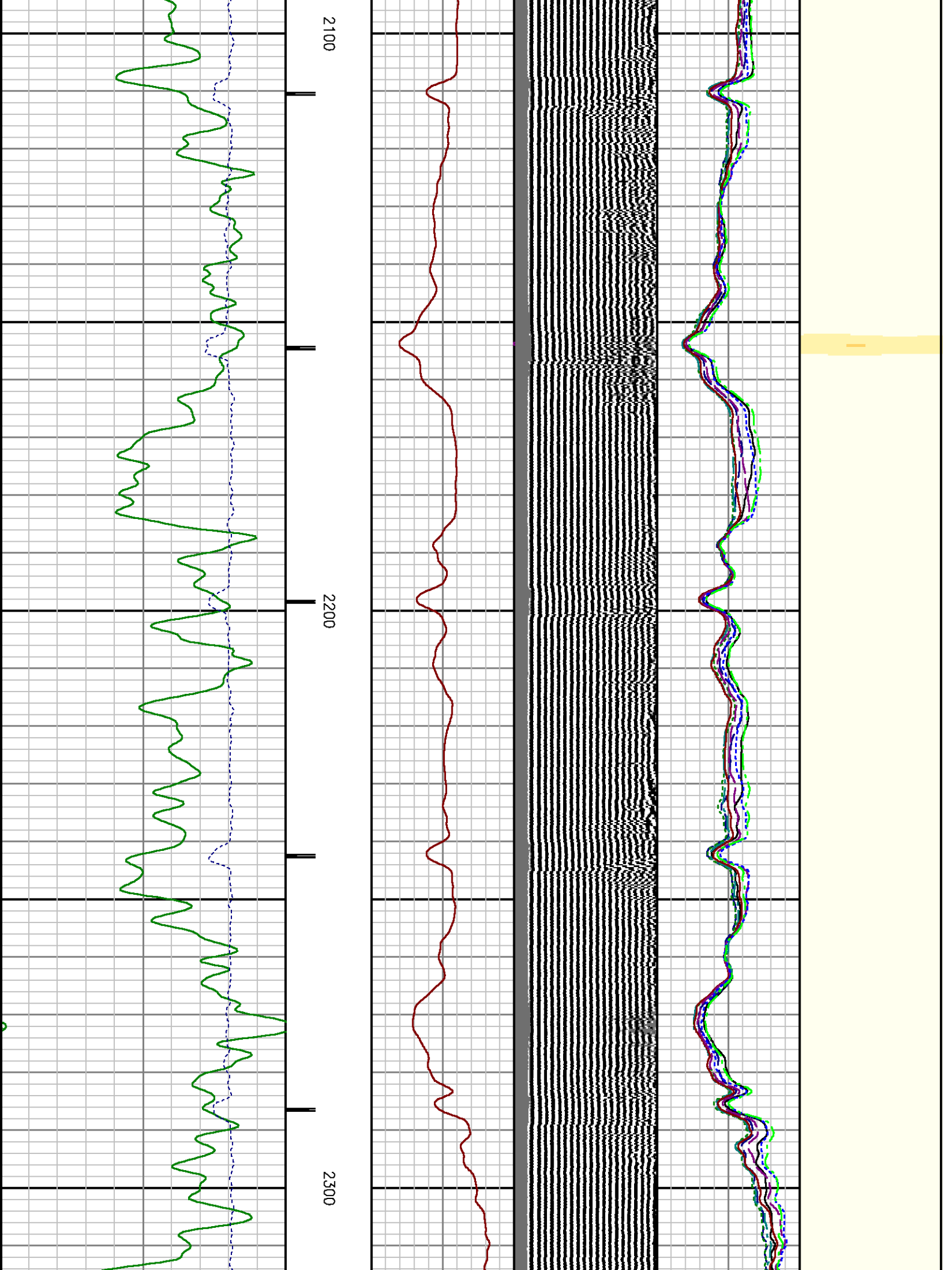


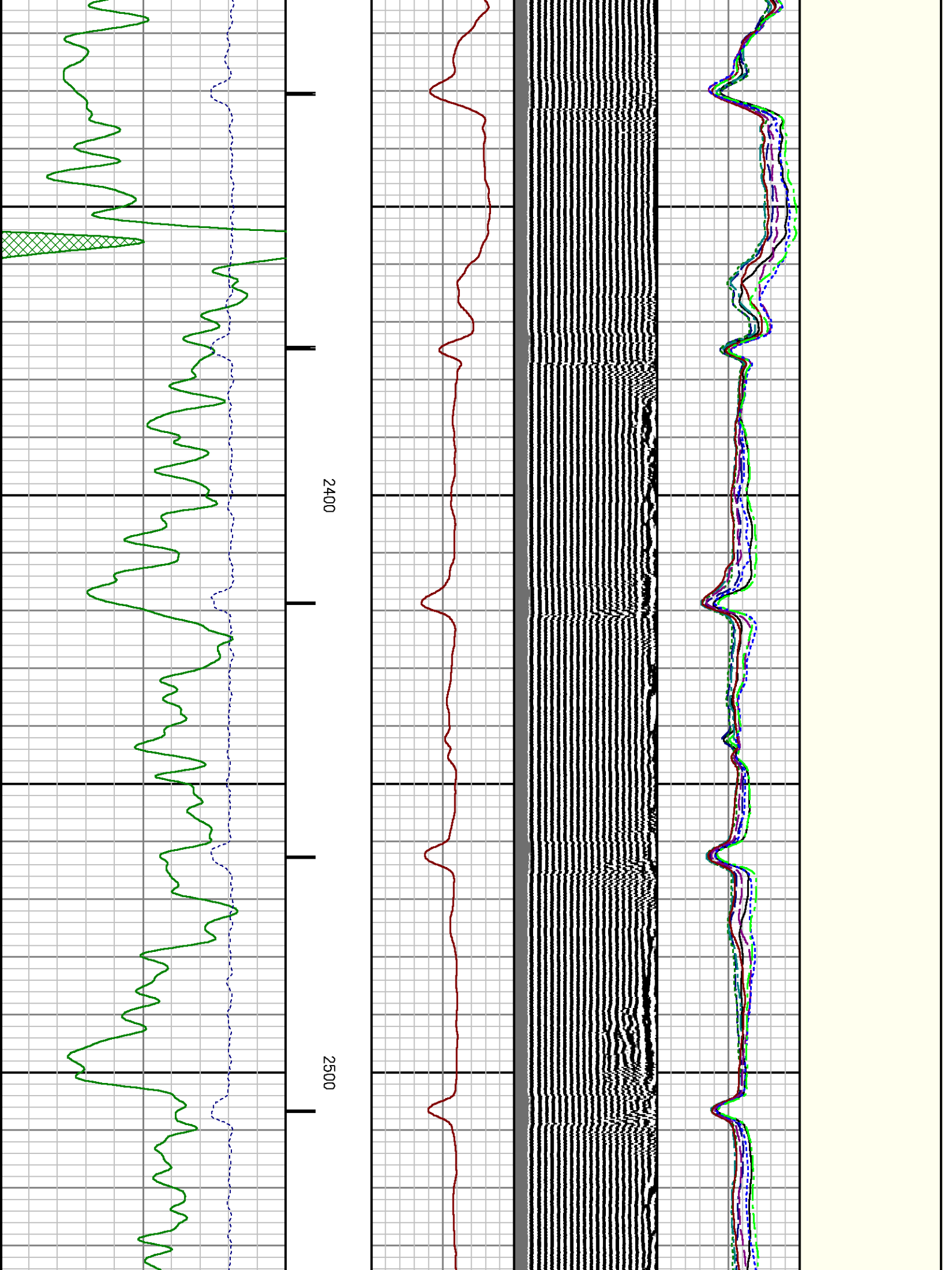


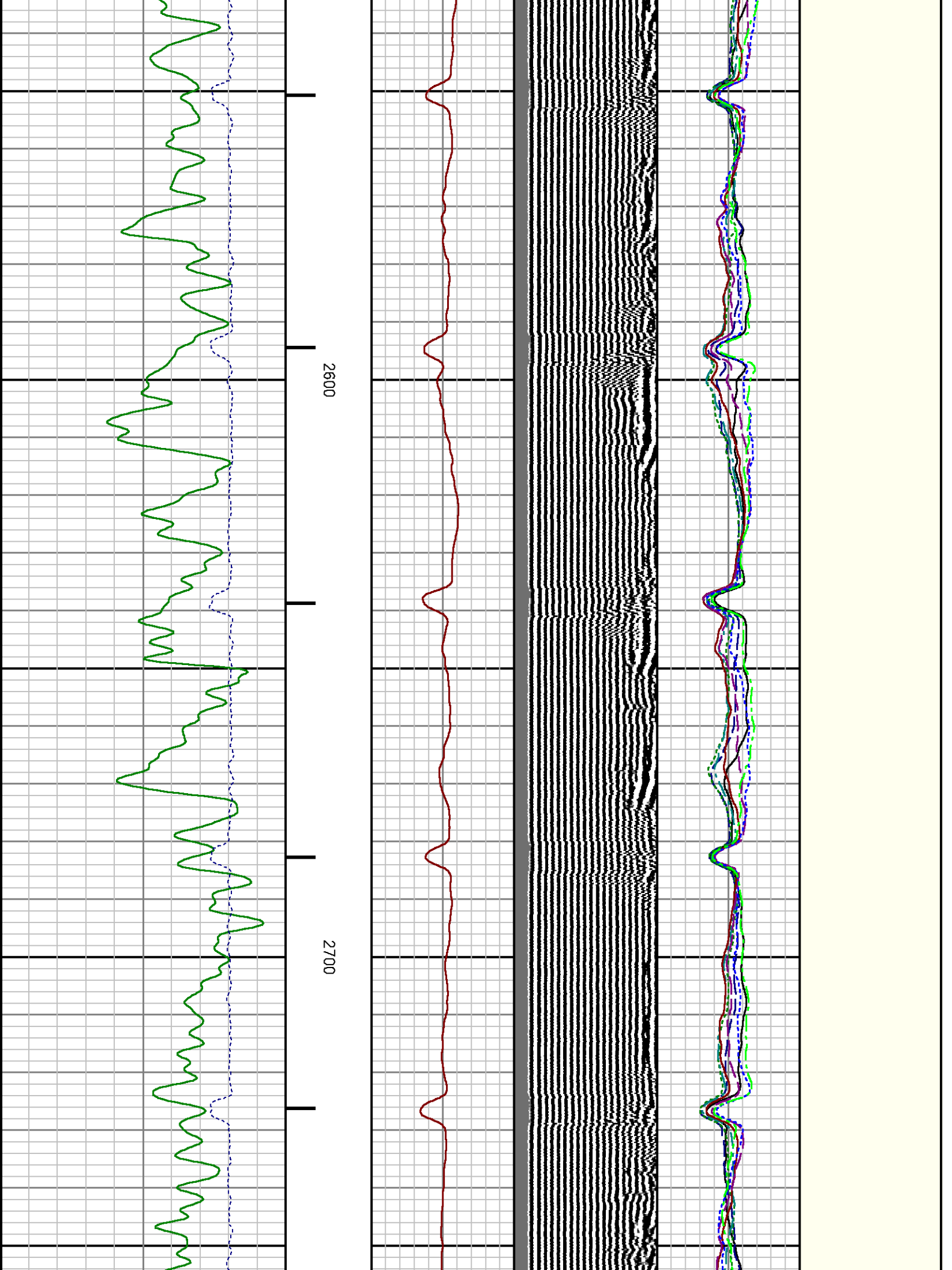


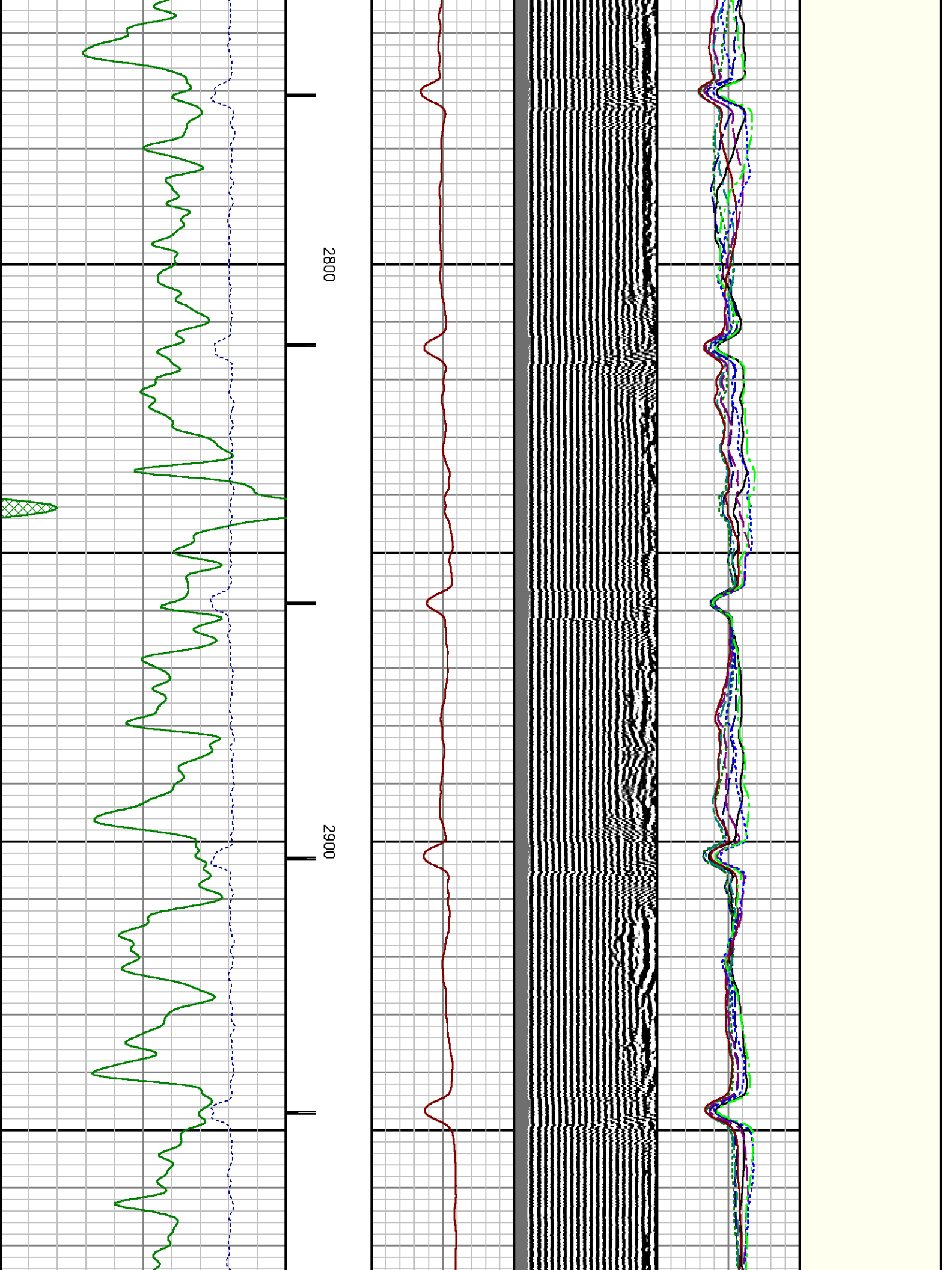


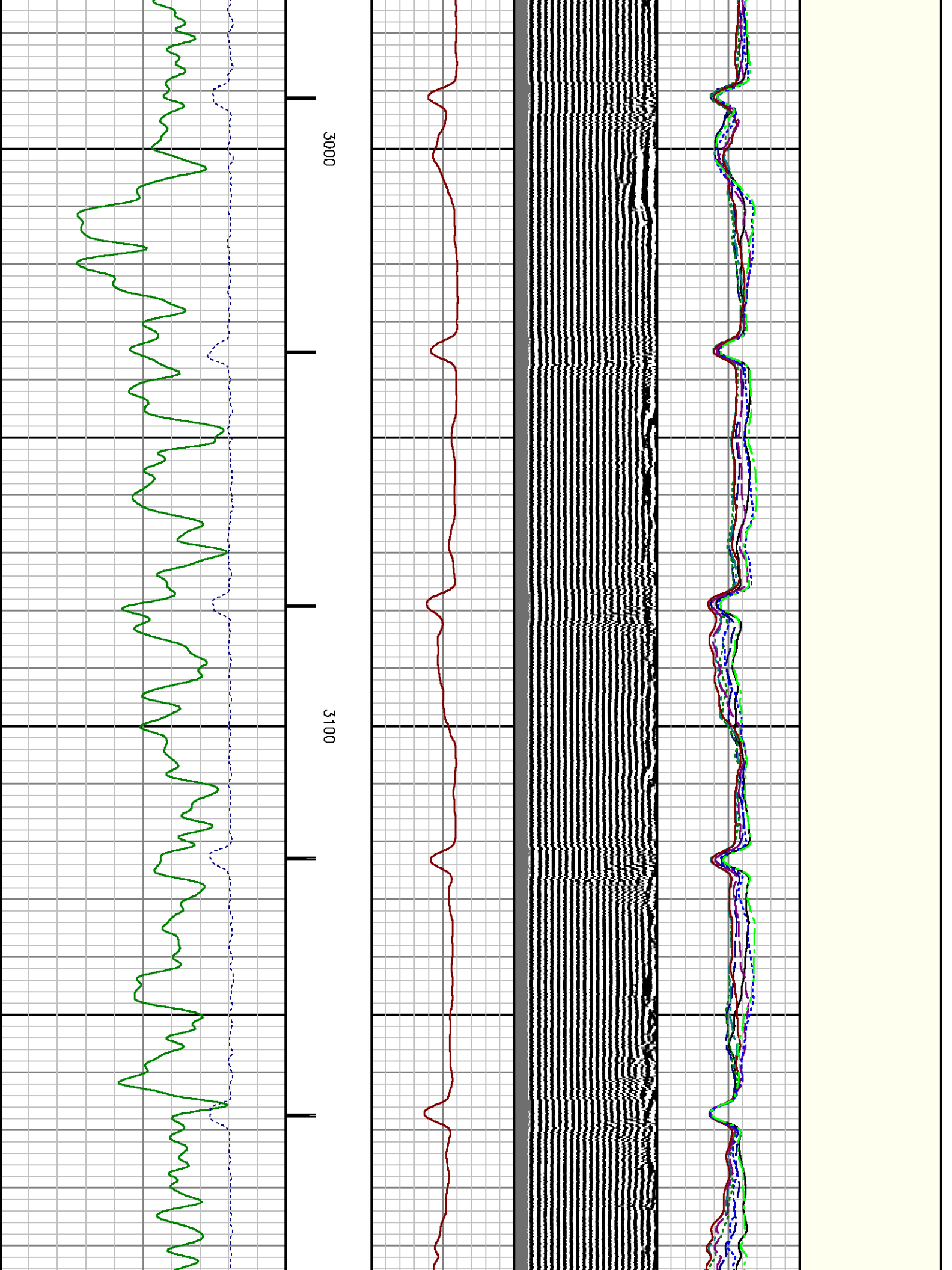


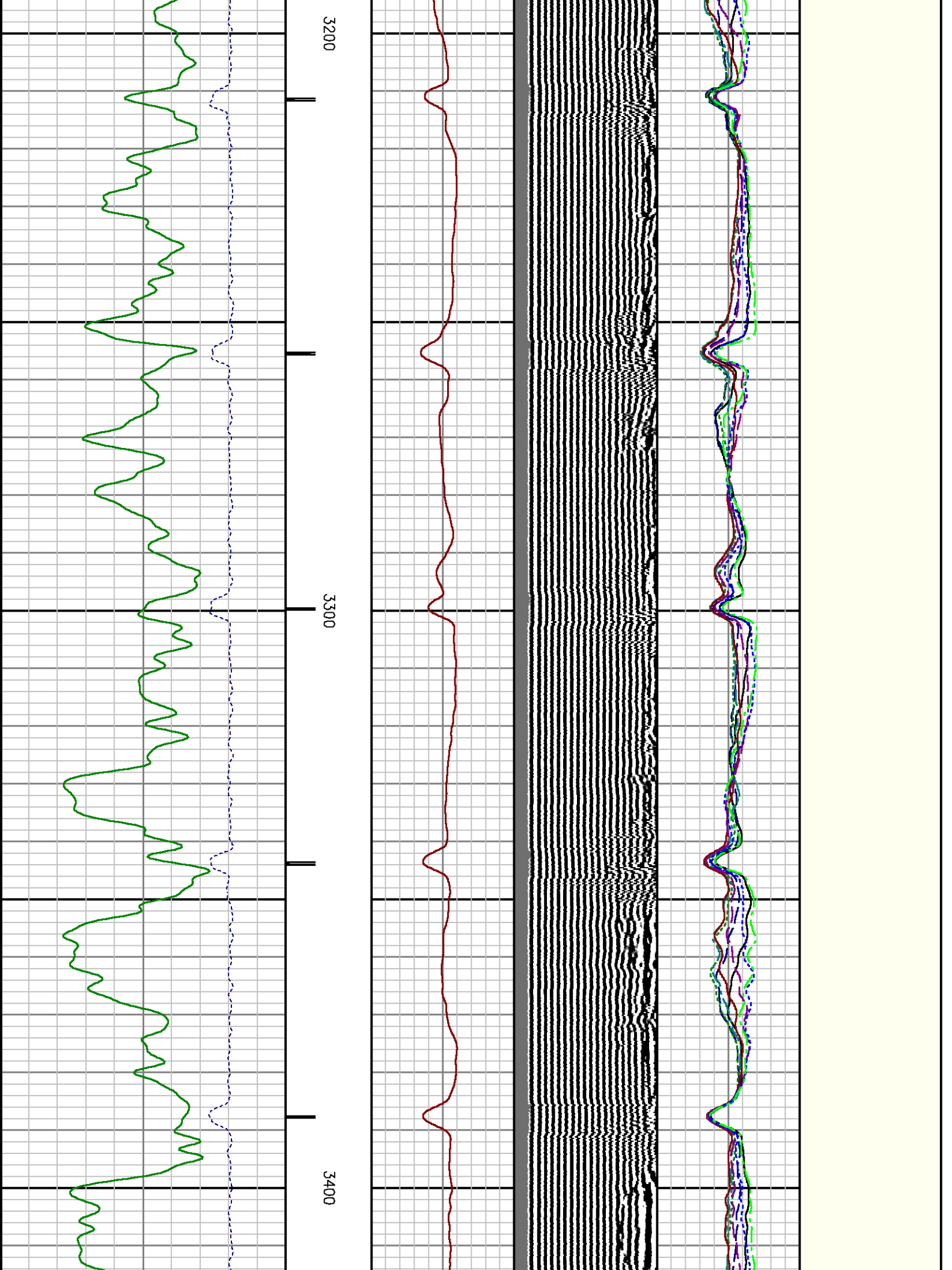


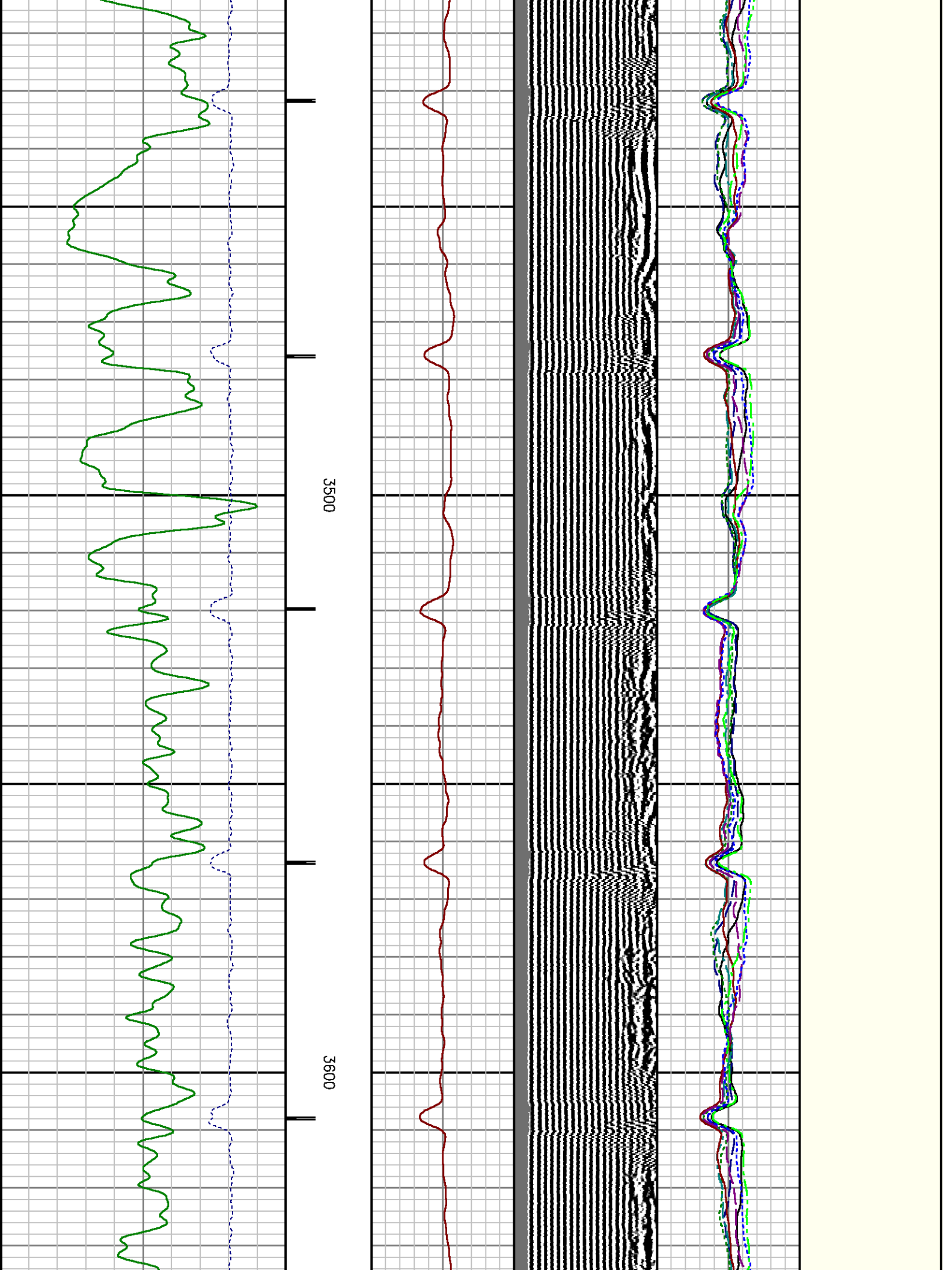


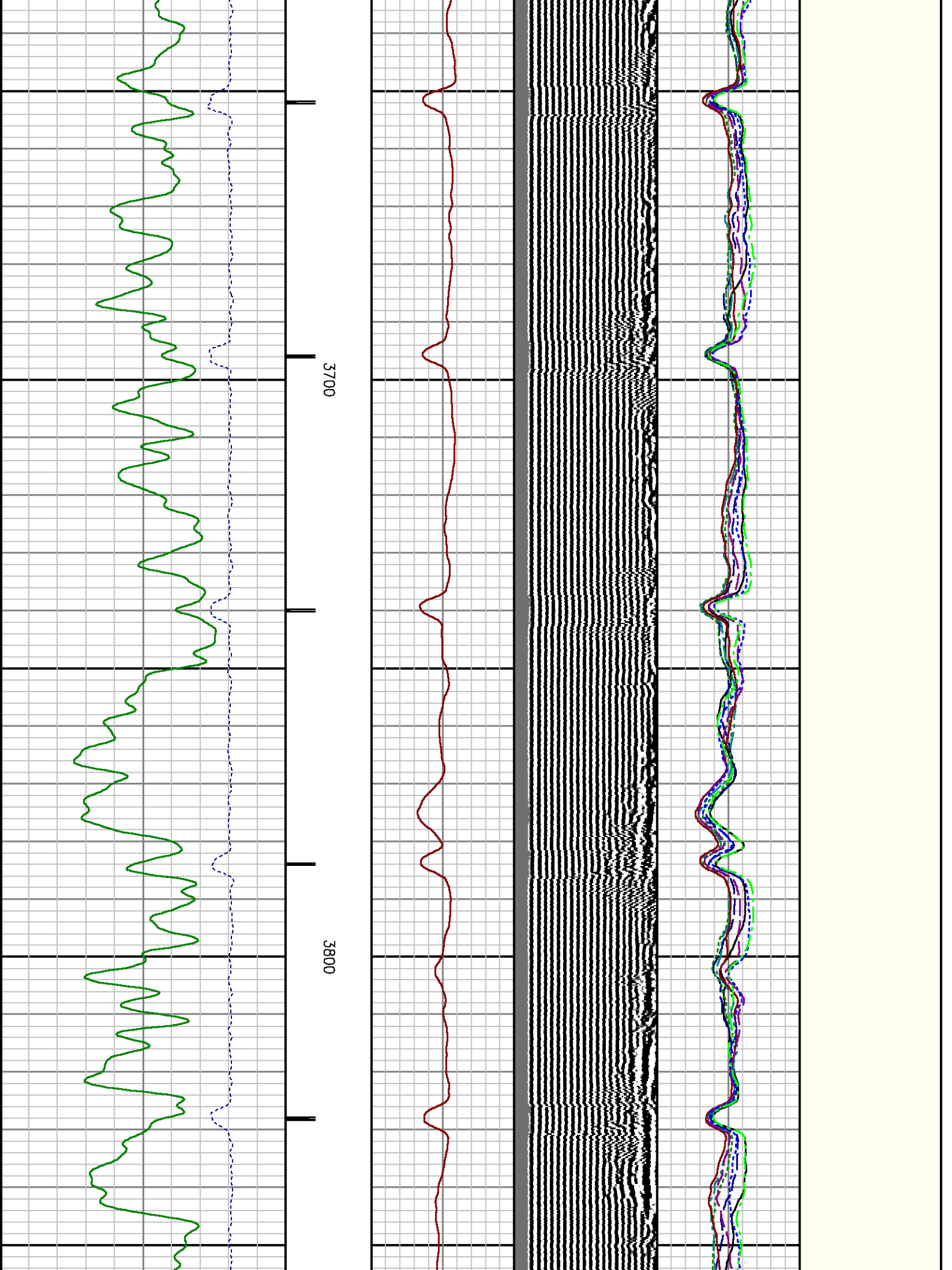


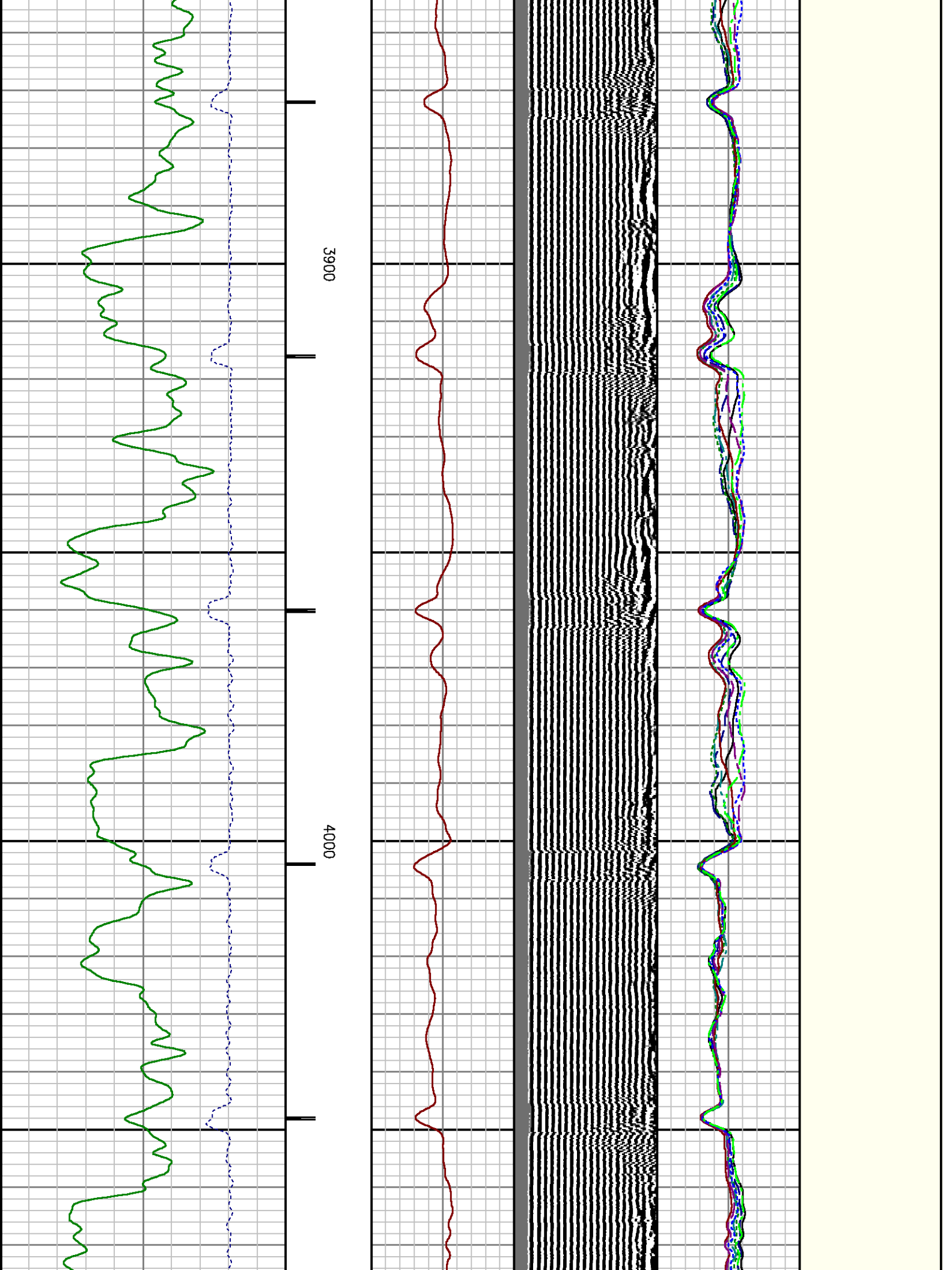


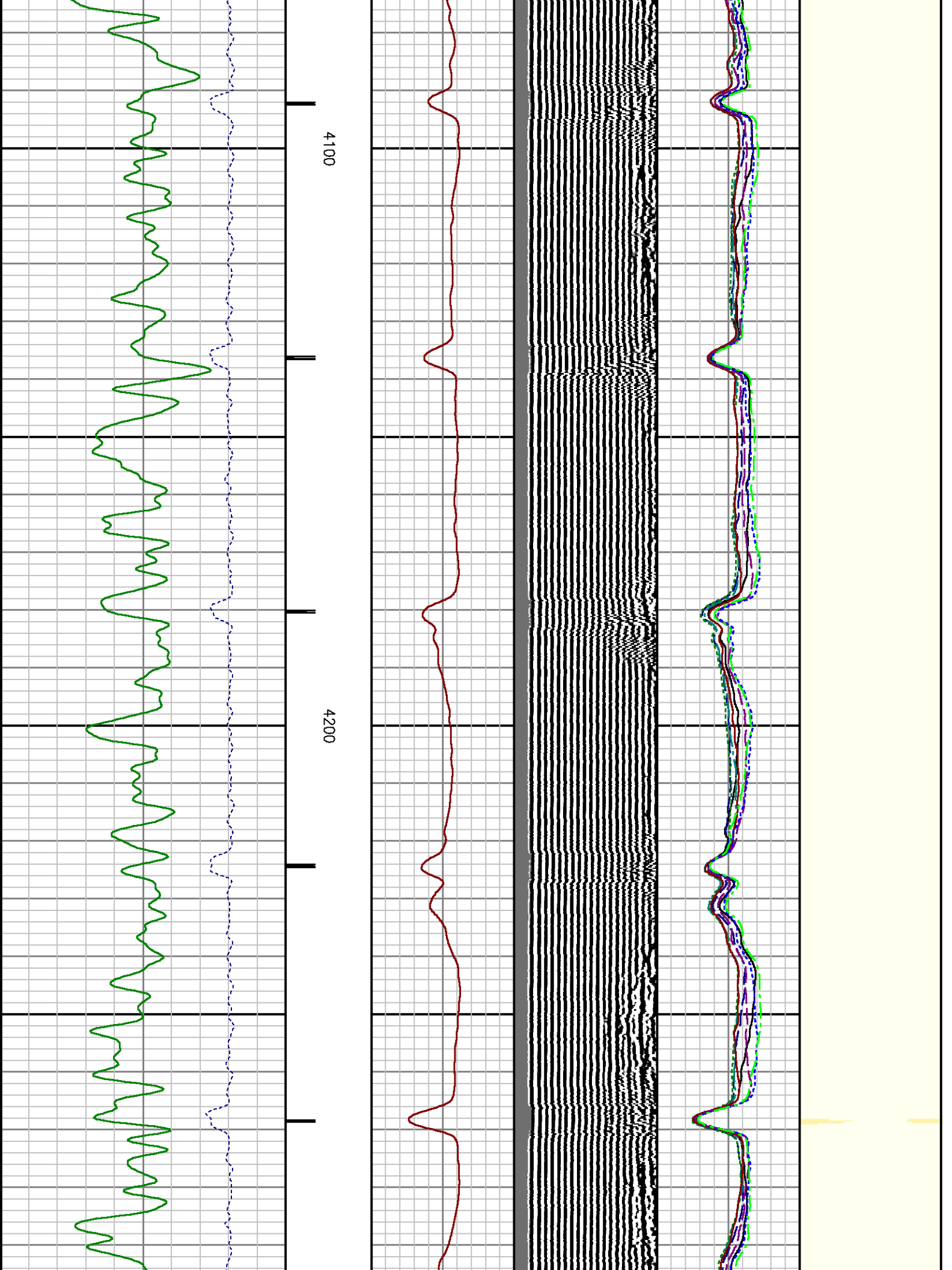


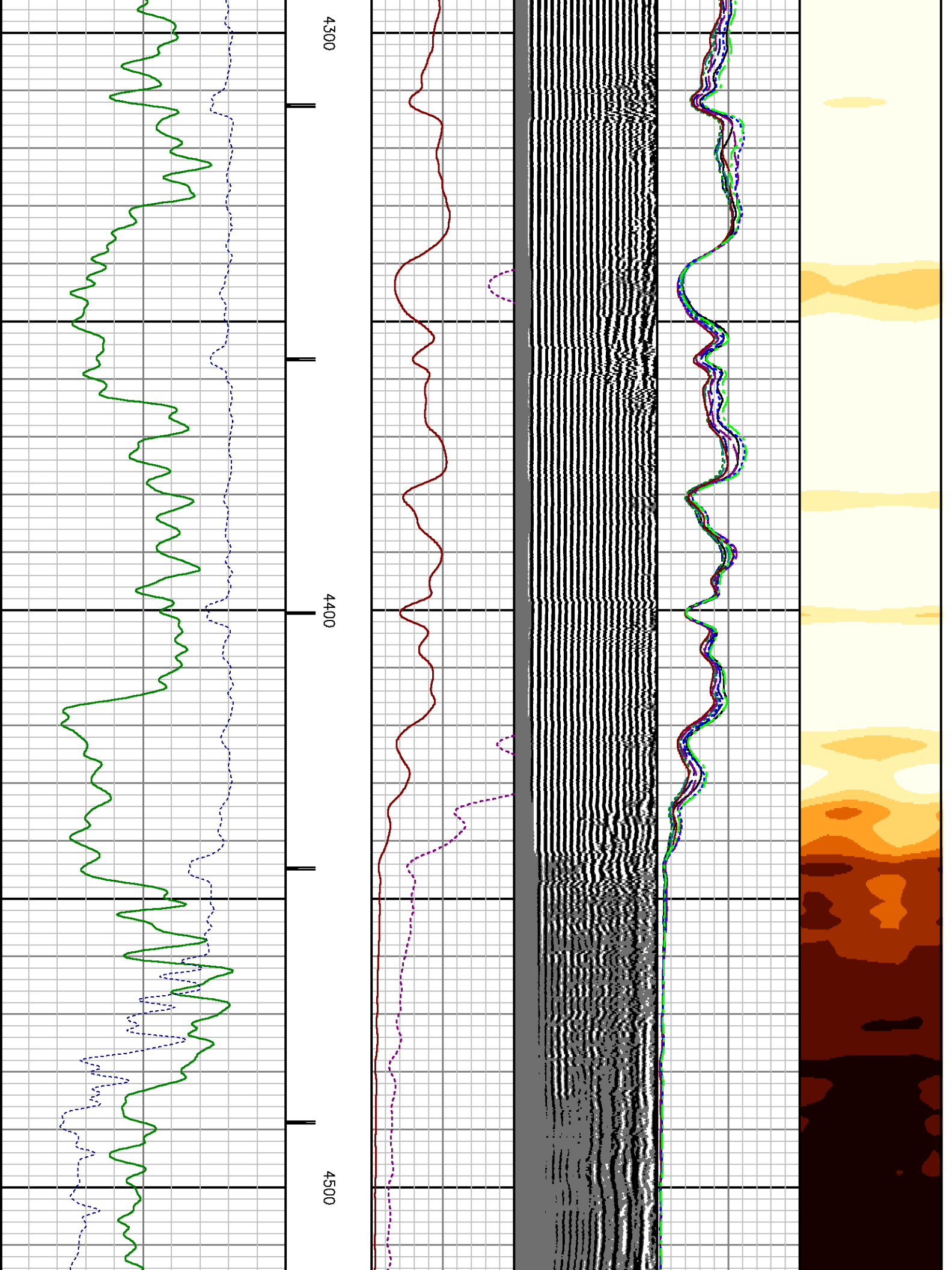


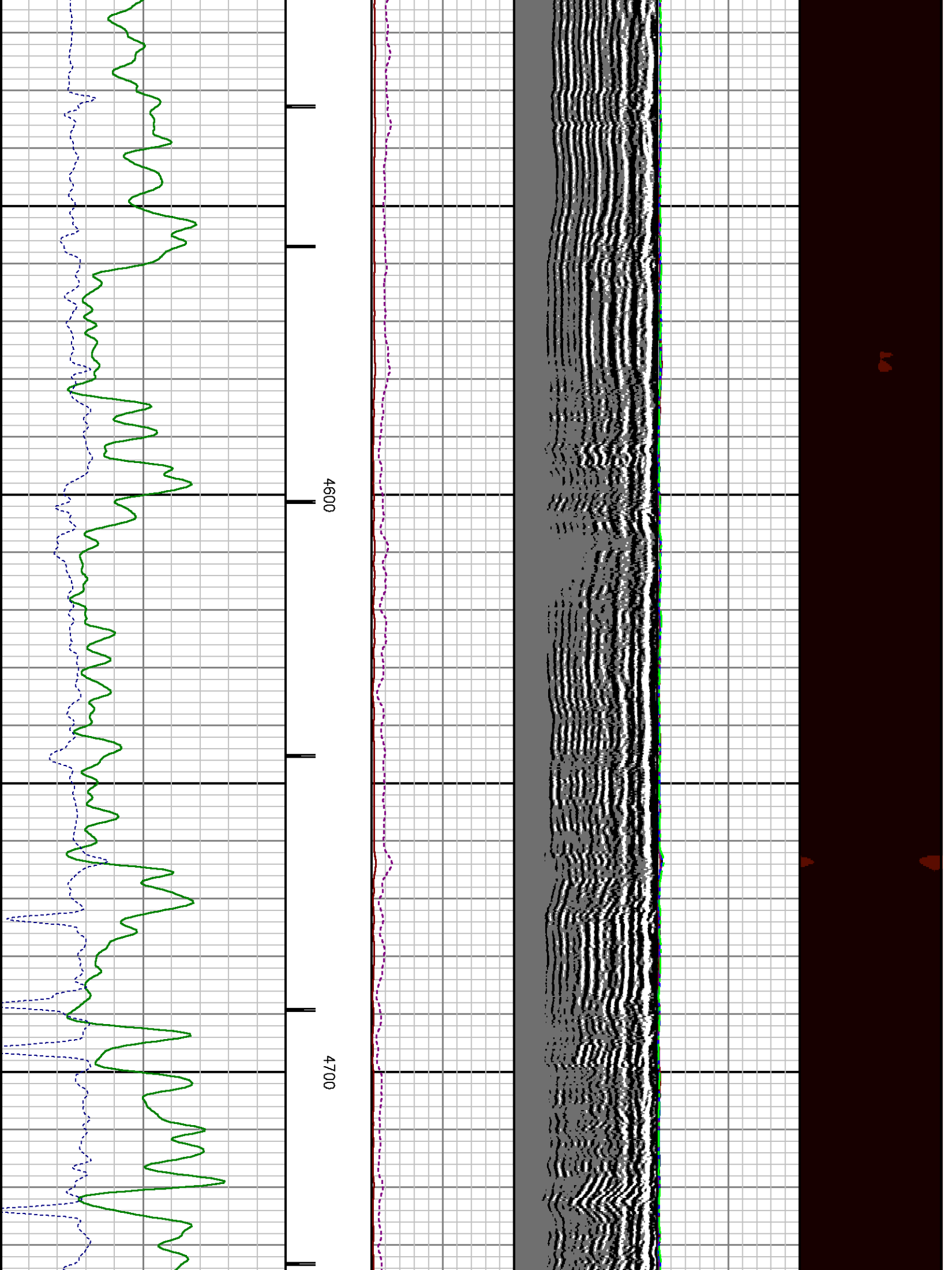


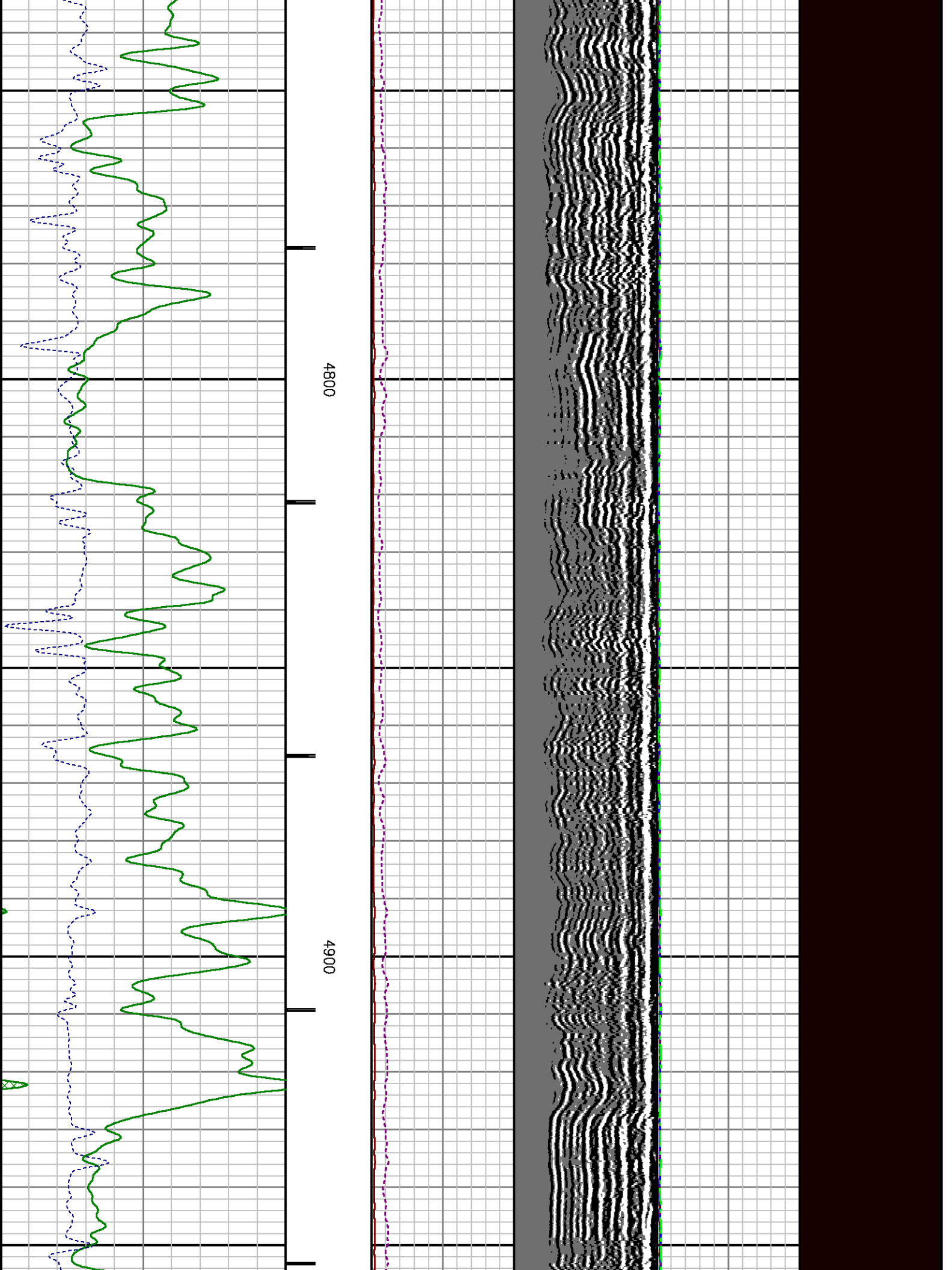


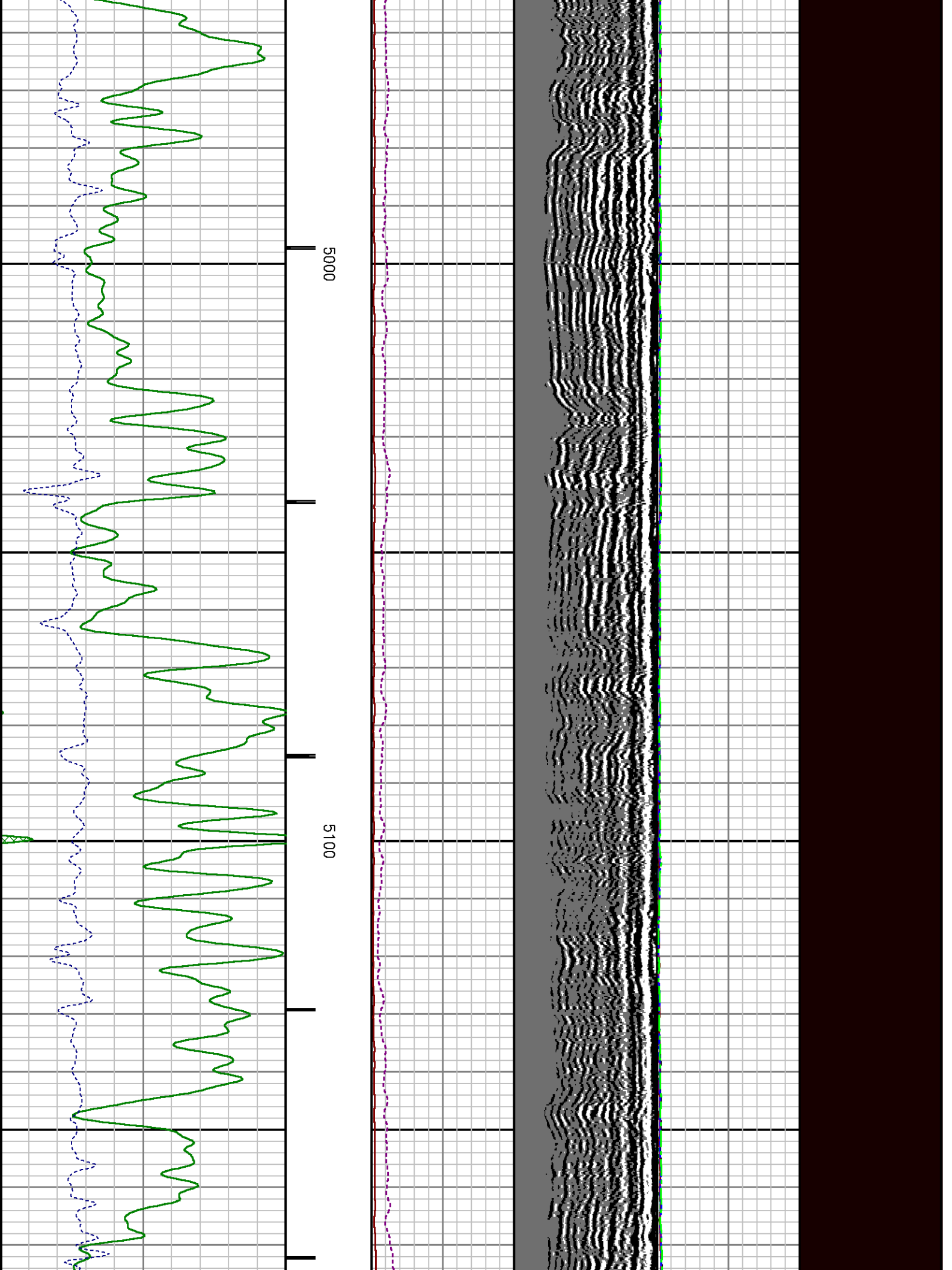


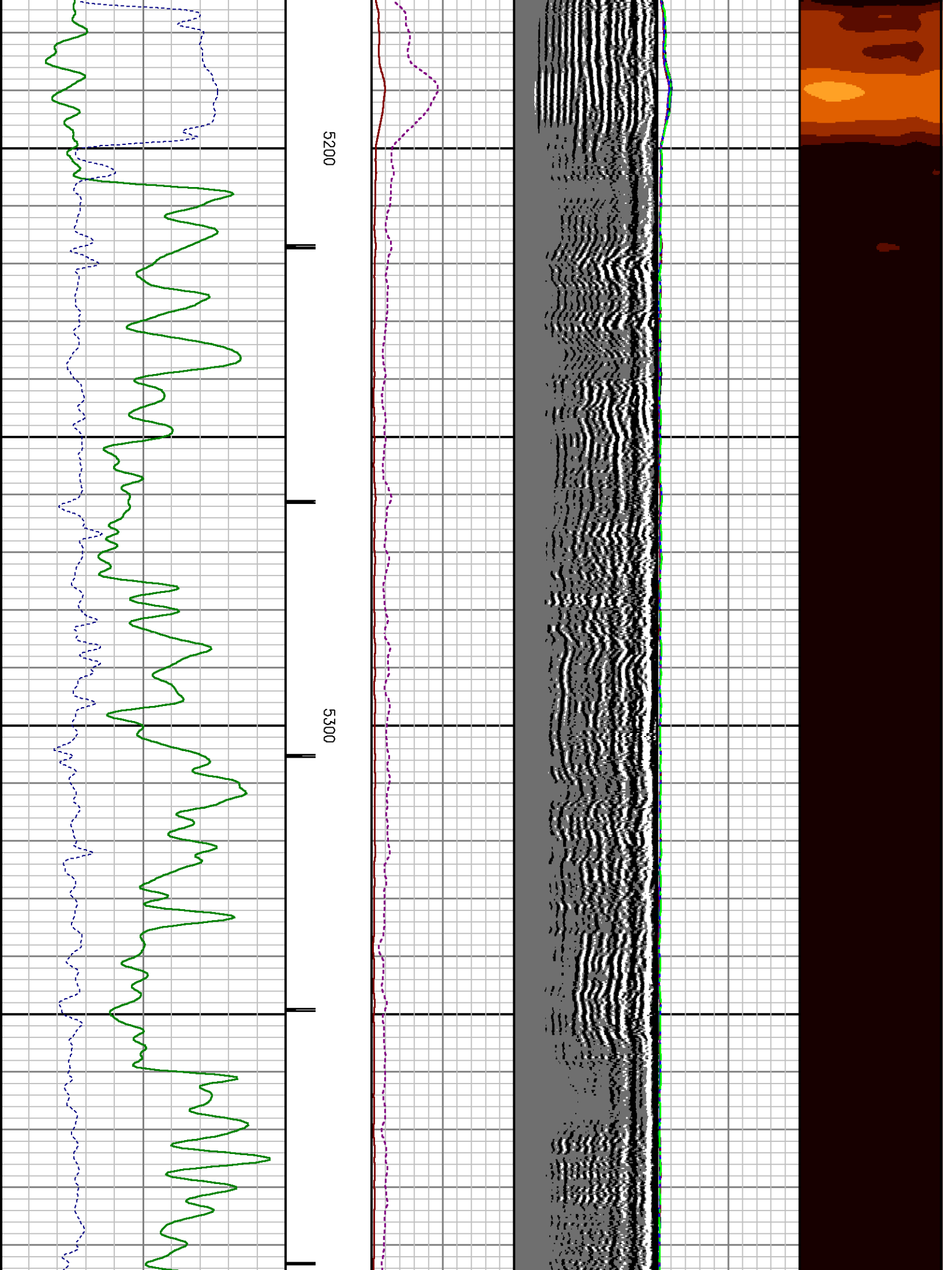


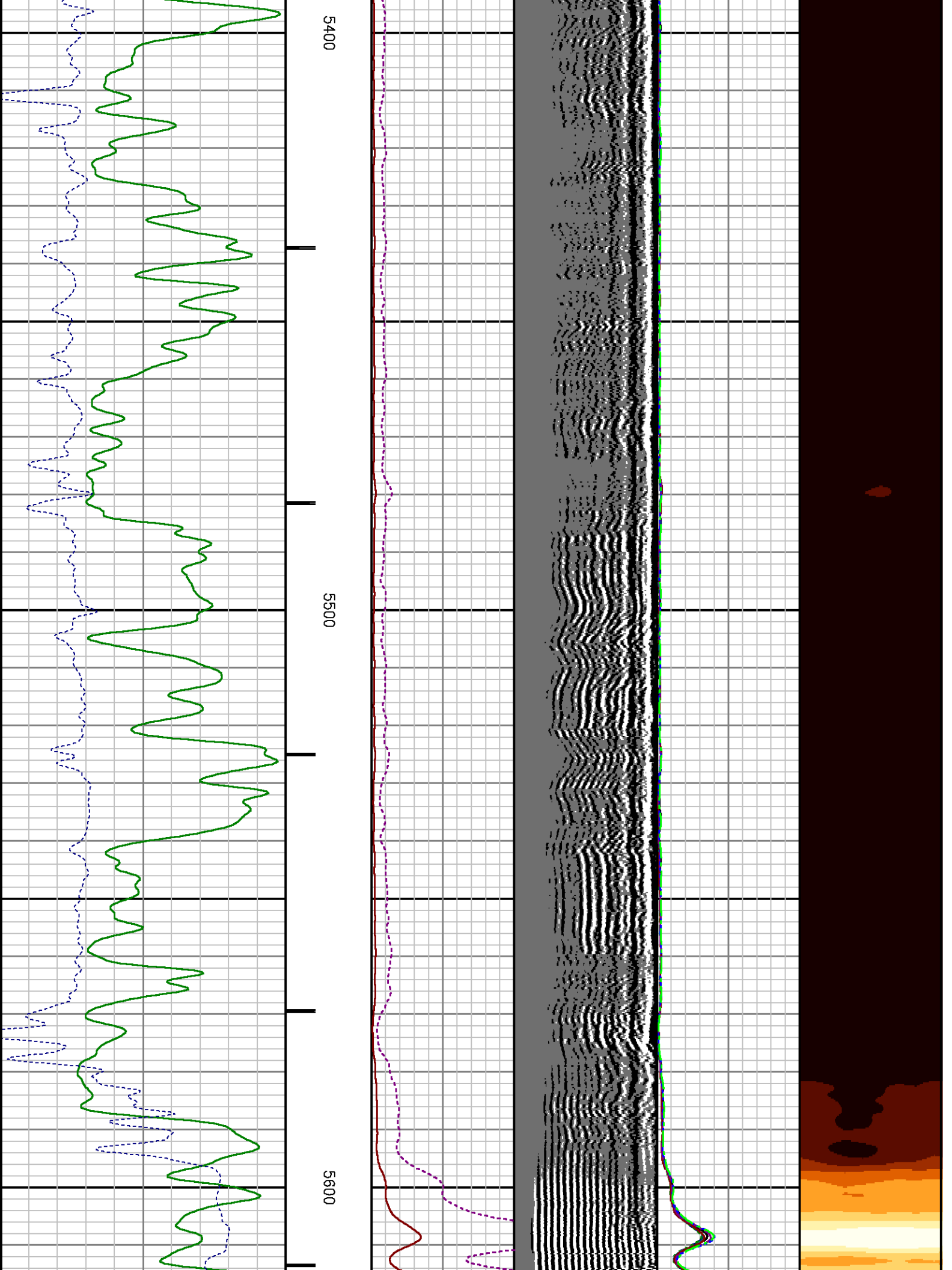


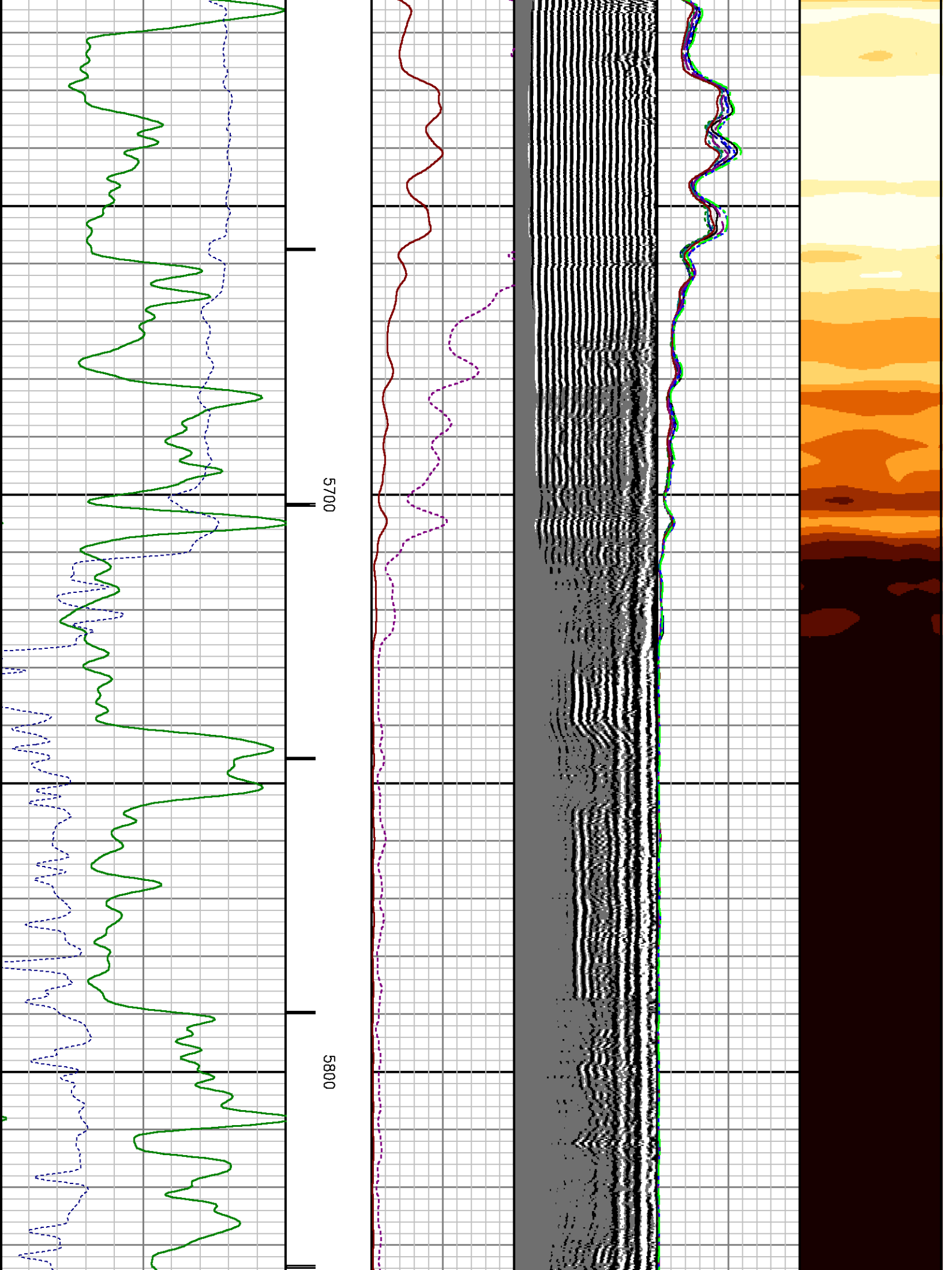


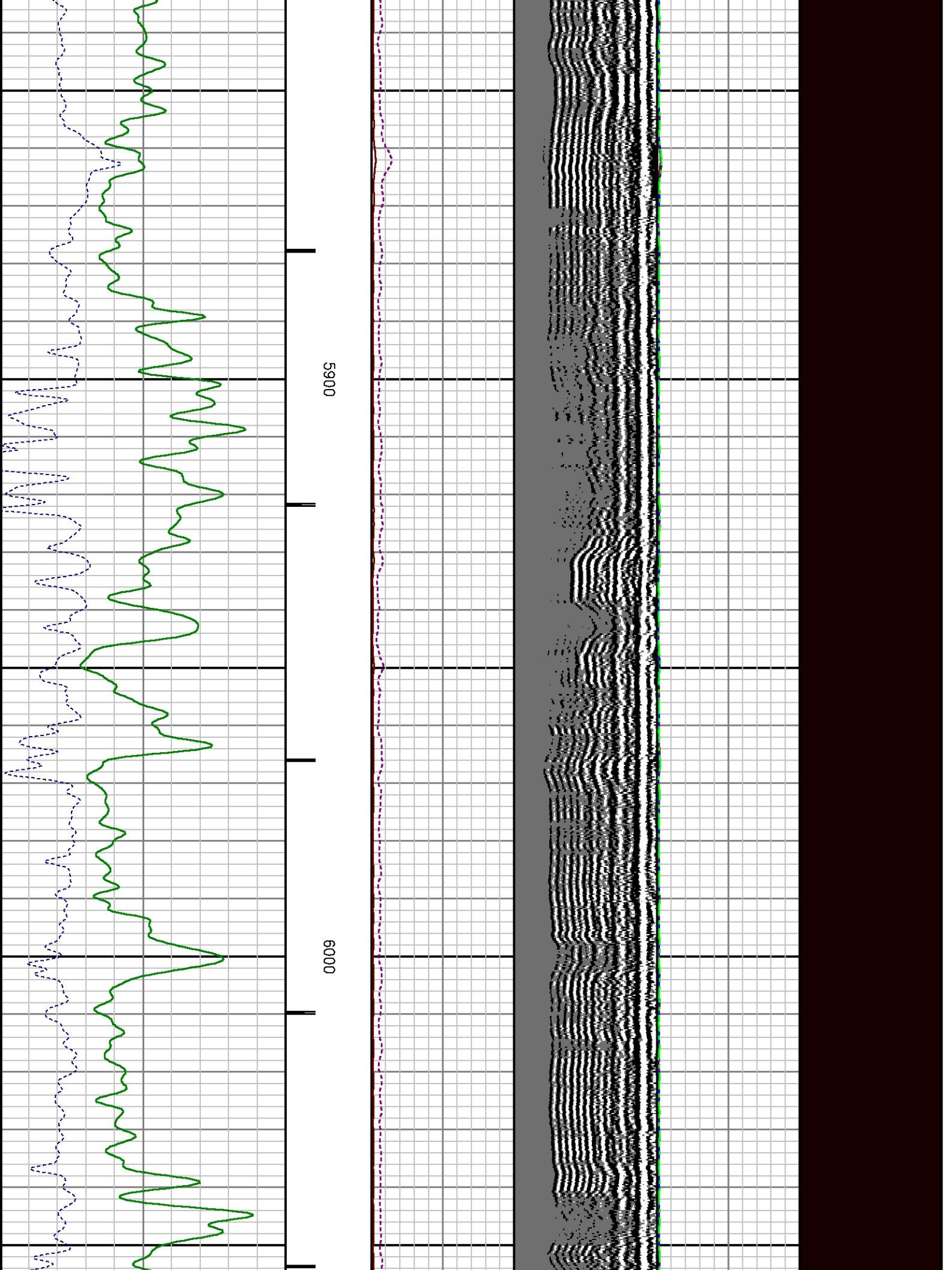


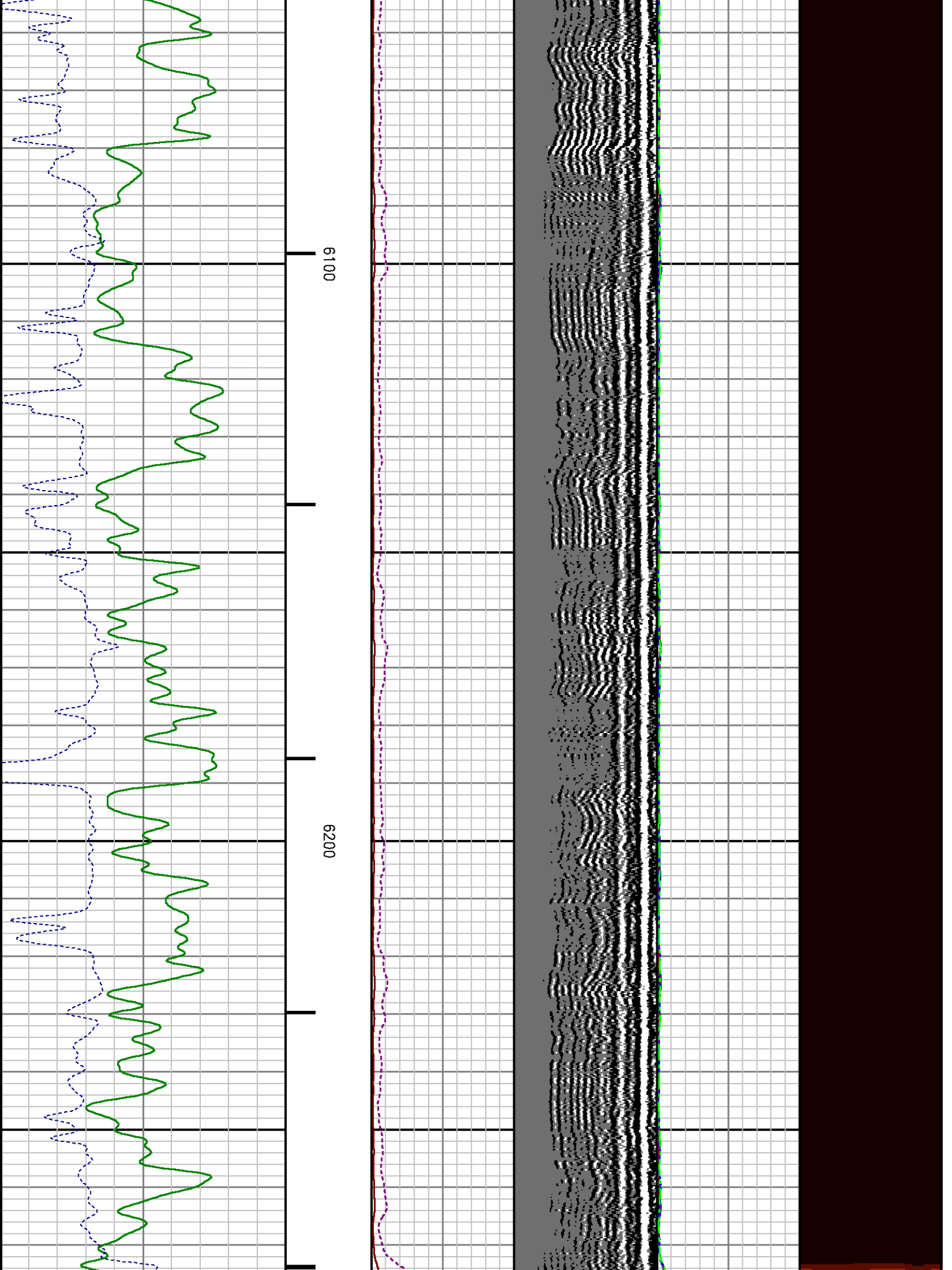


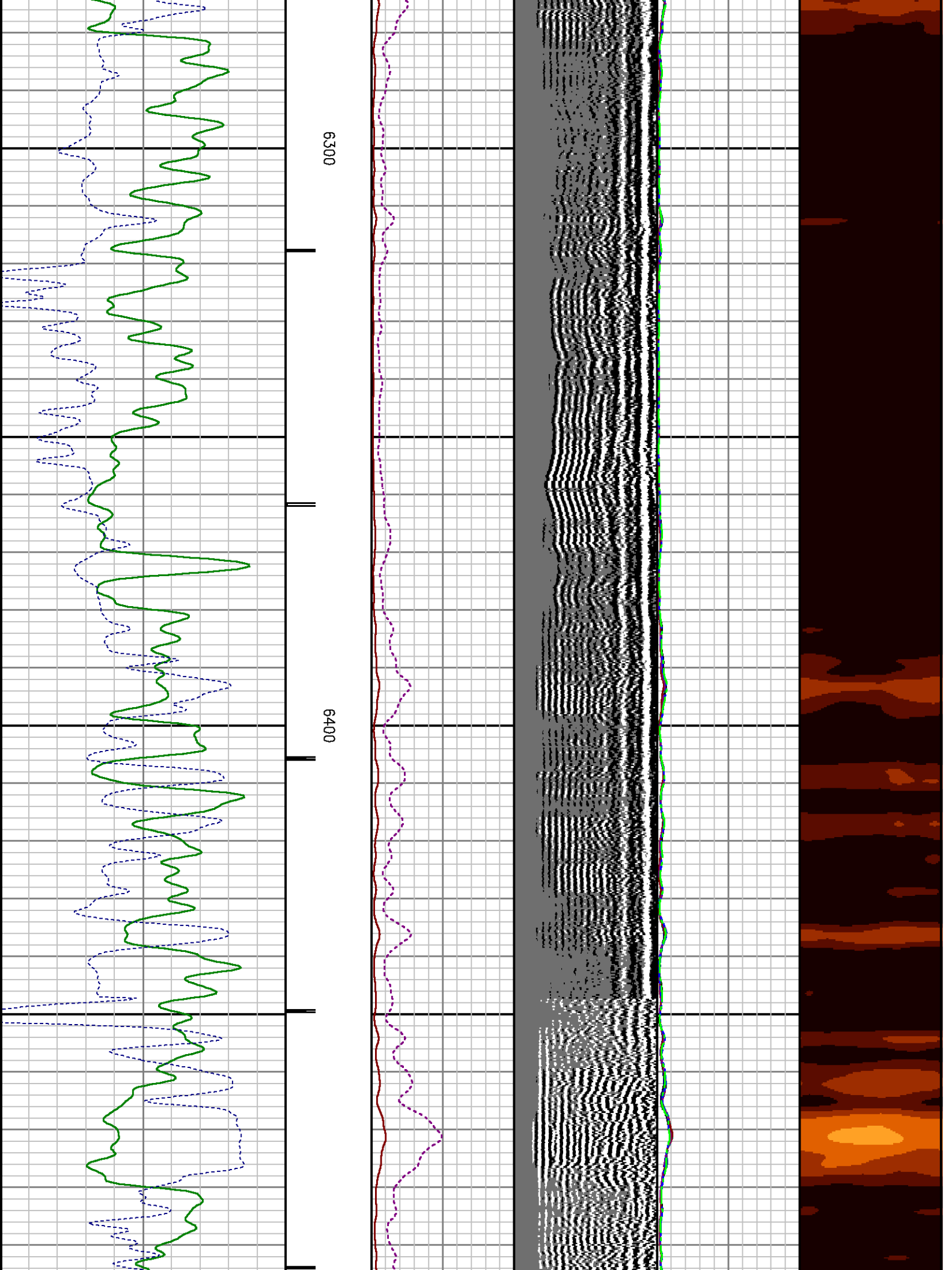


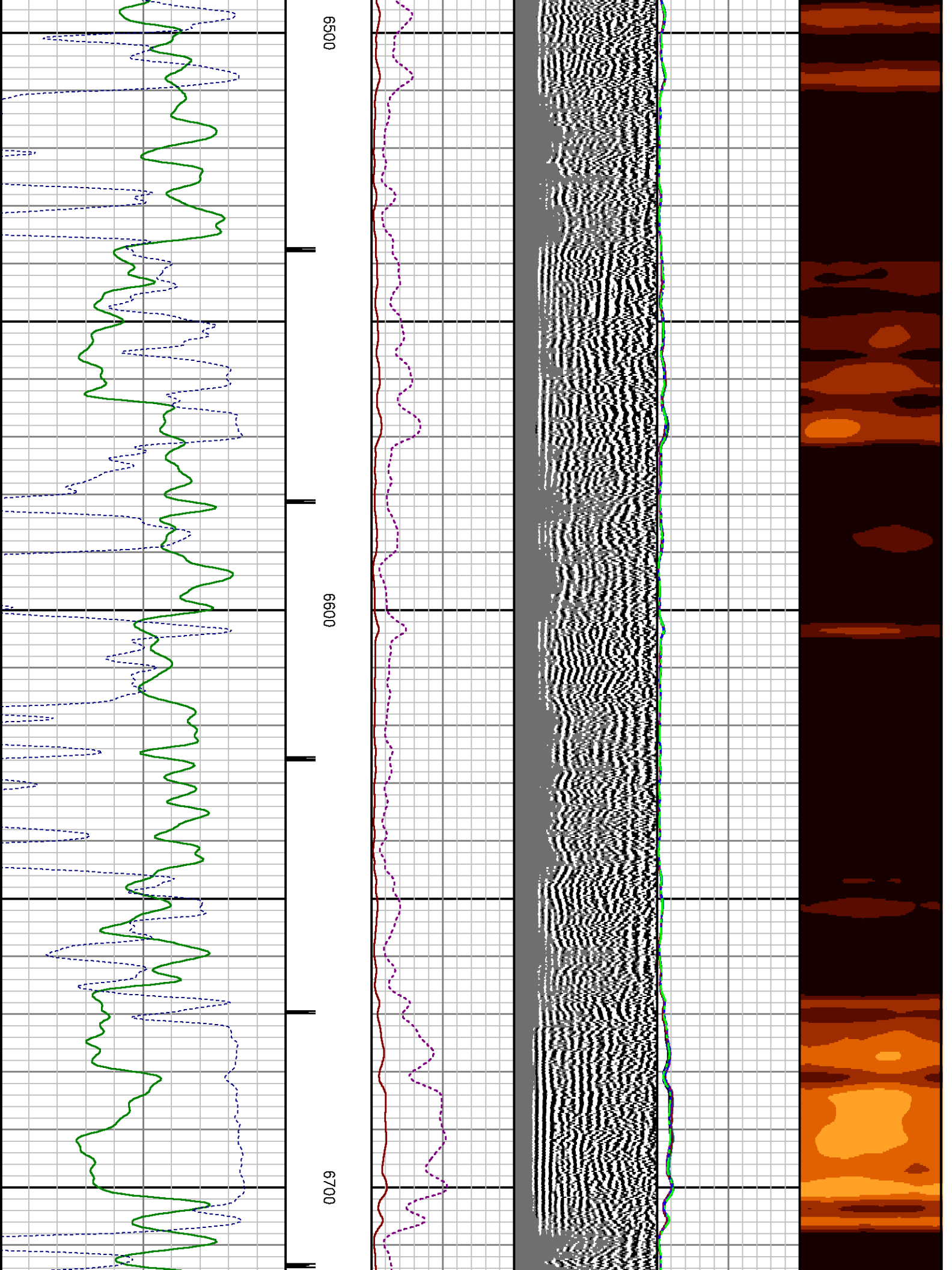


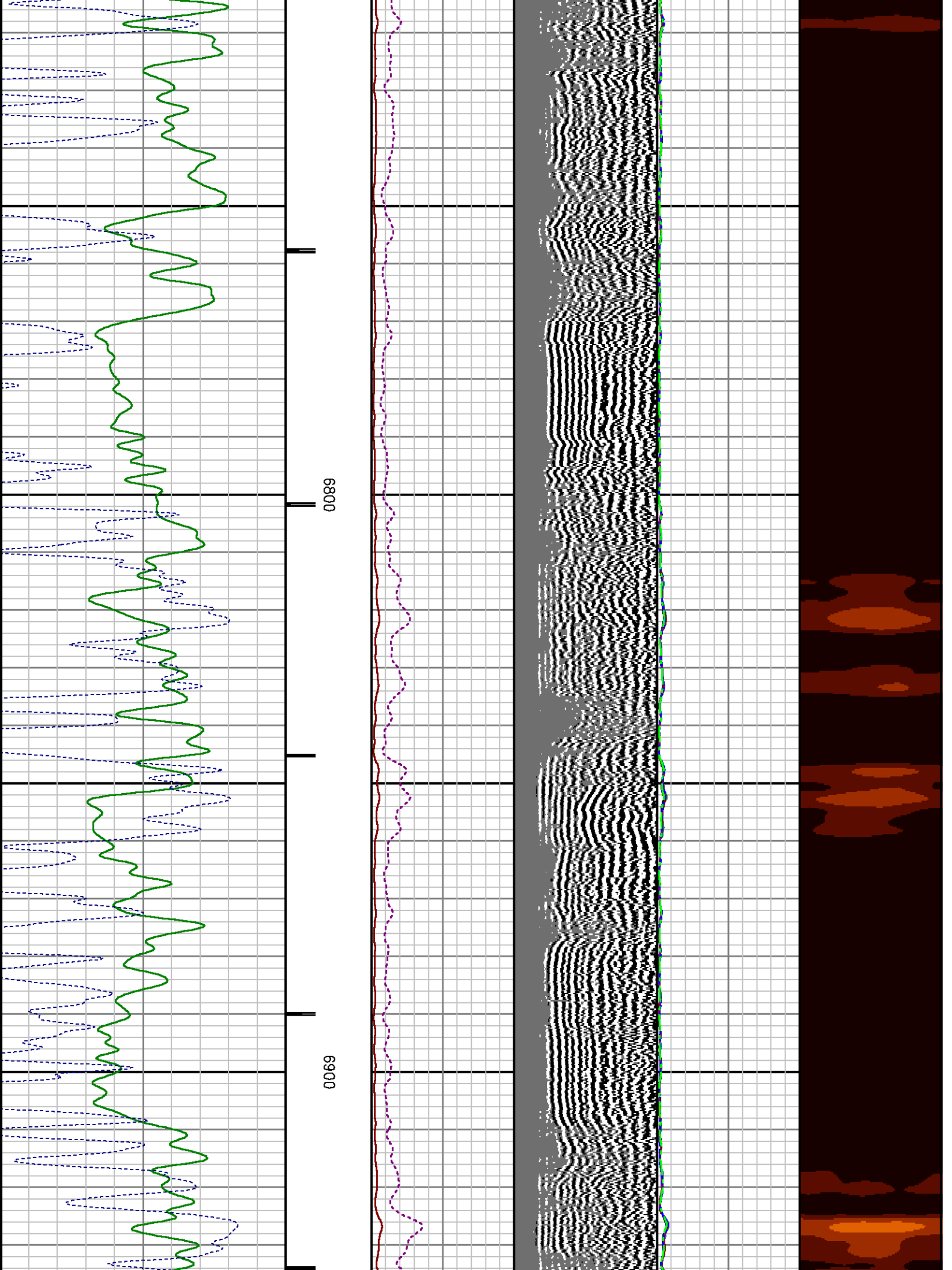


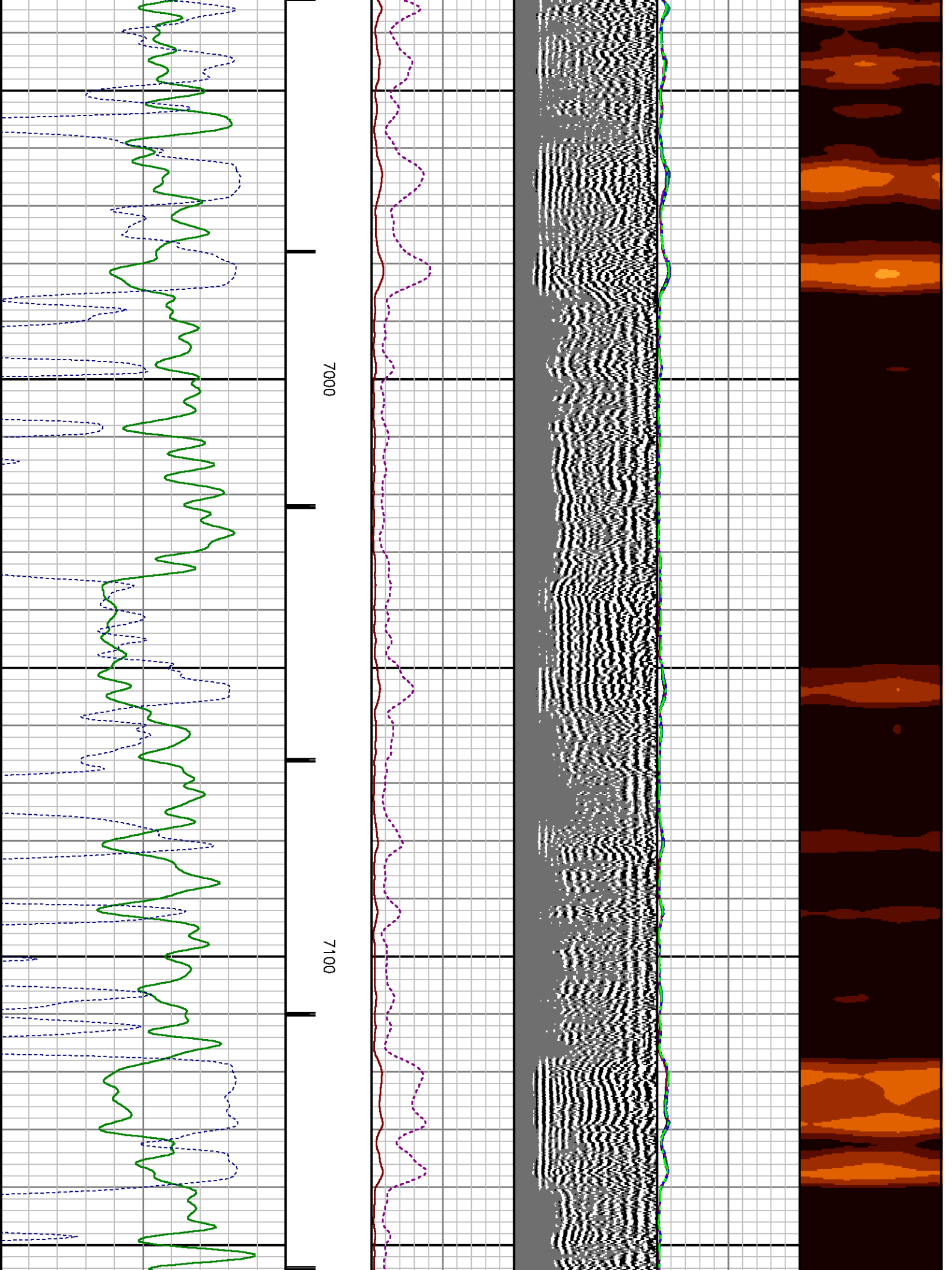


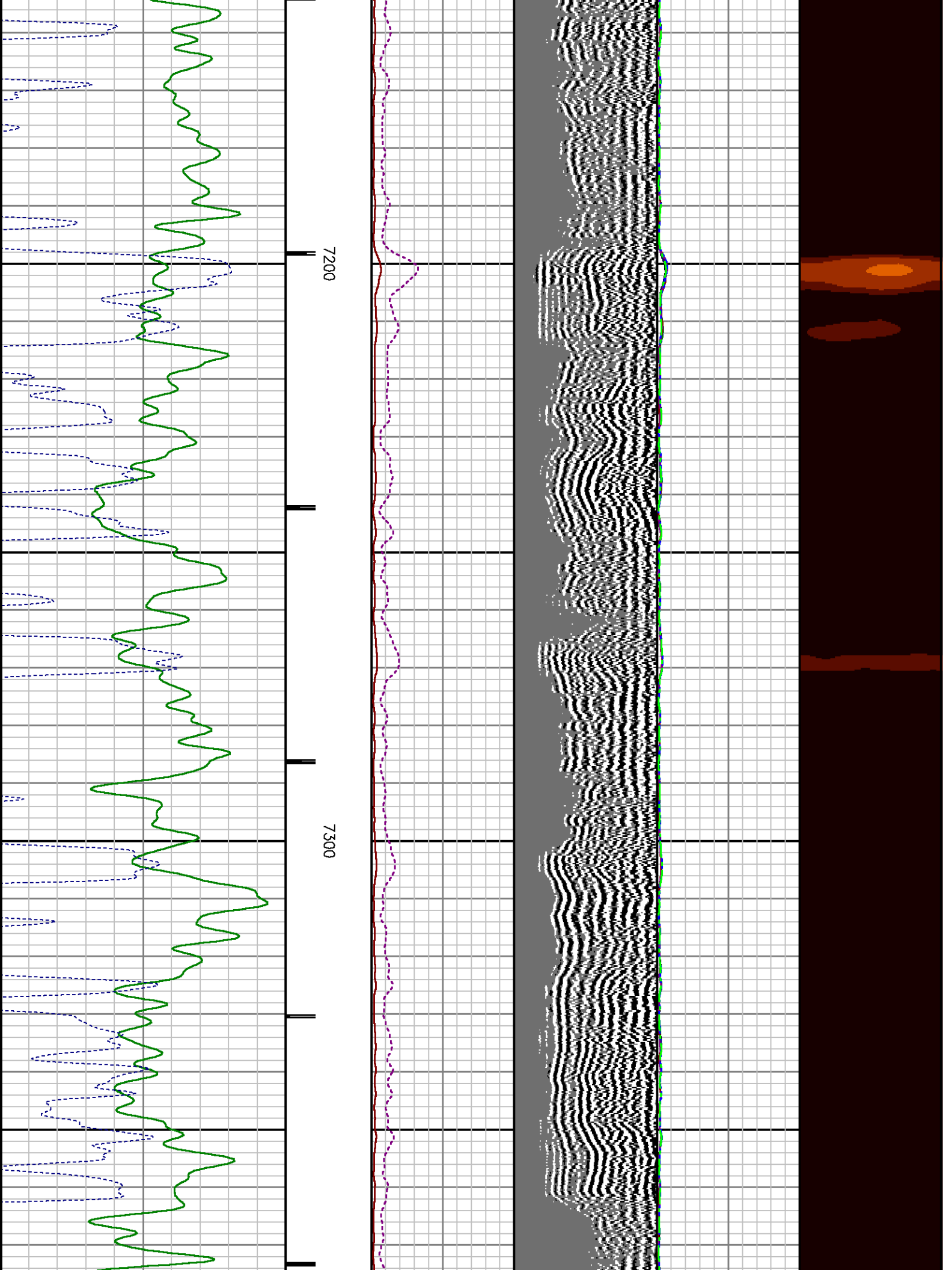


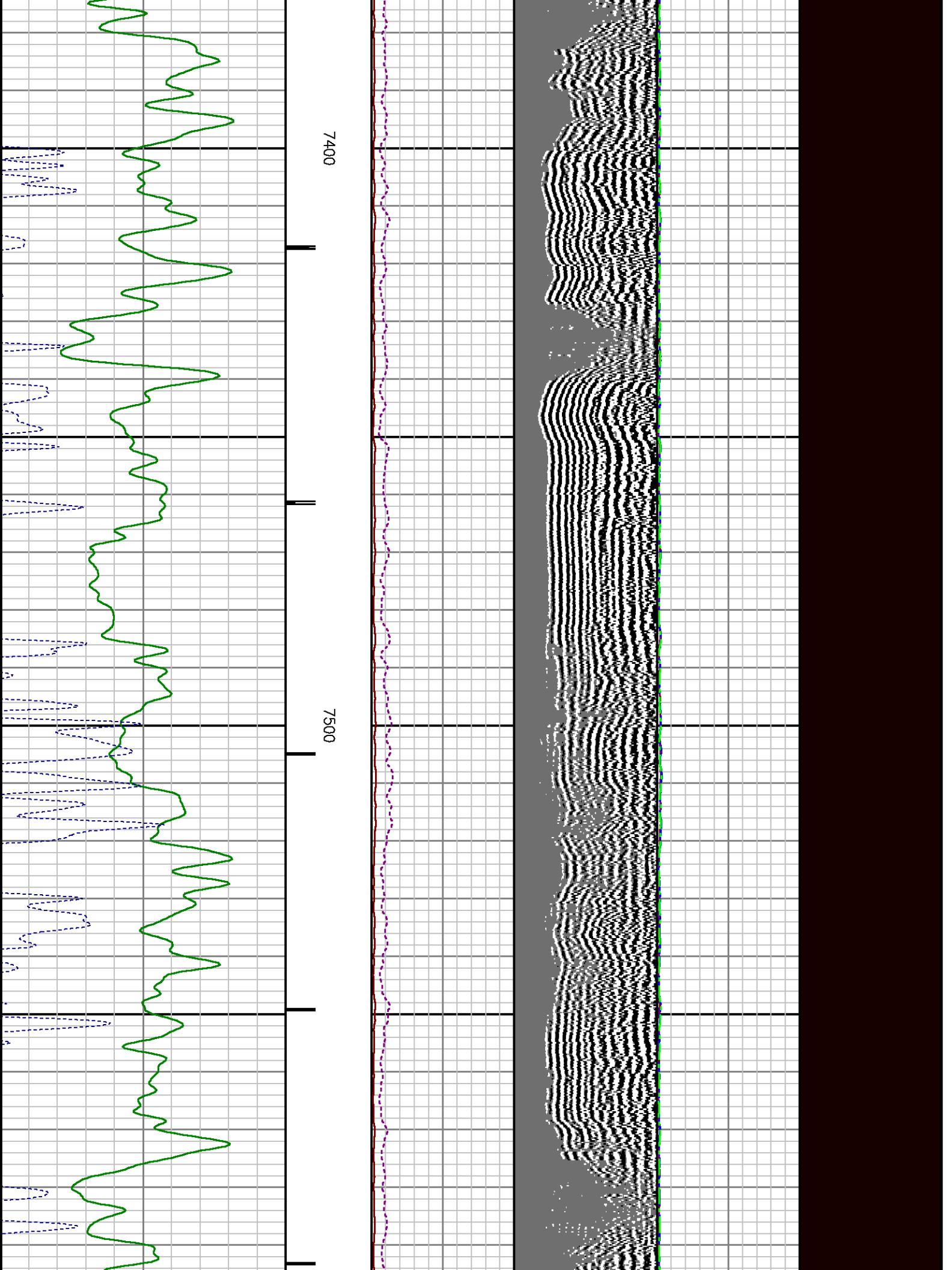


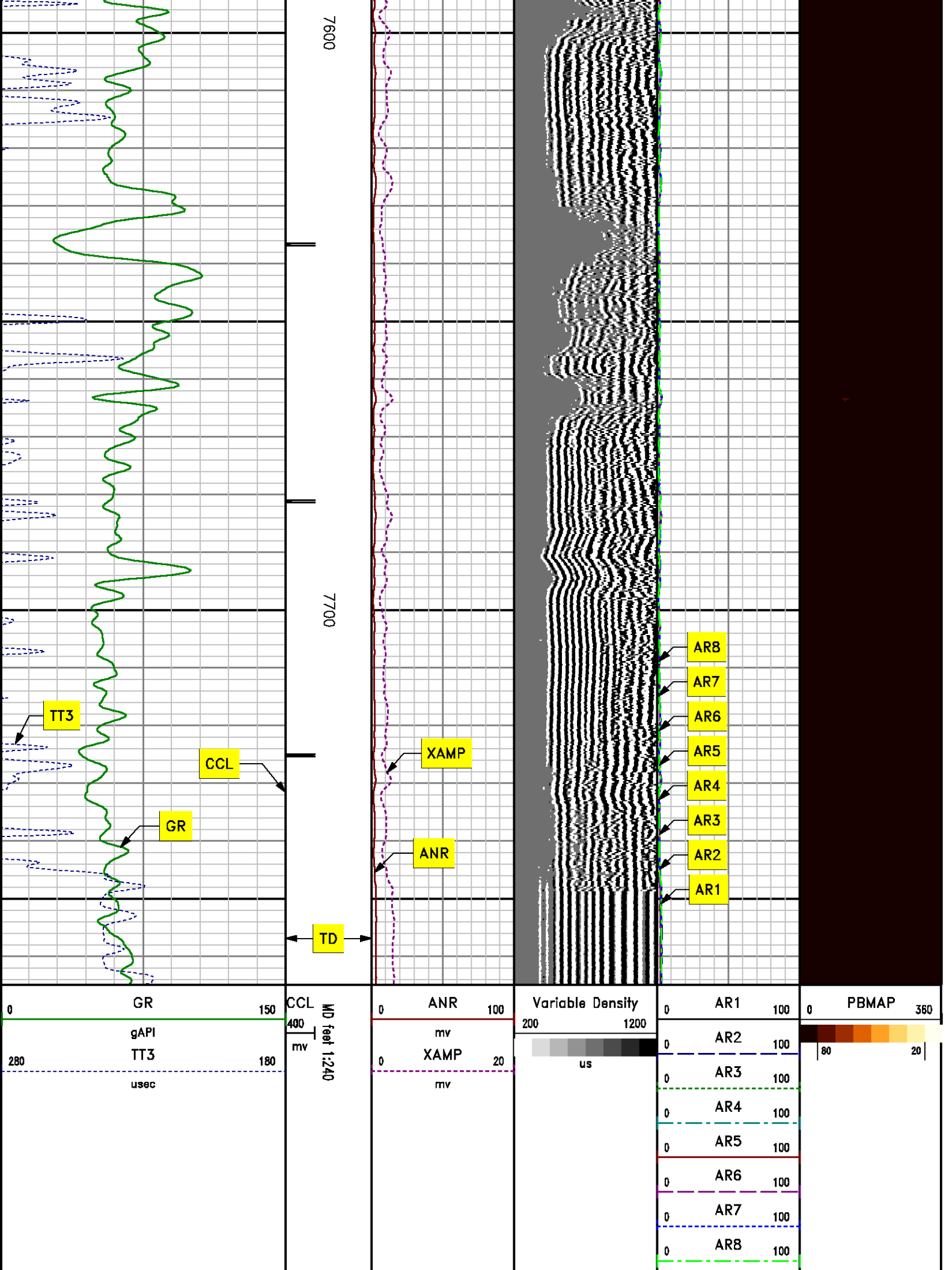












REPEAT PASS

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.653	usec	7449.841	7780.000
RAL	Amp Gate Start Near	197.374	usec	7449.841	7780.000
RAL	Amp Gate Start Radial	198.140	usec	7449.841	7780.000
RAL	Amp Gate Width Far	25.000	usec	7449.841	7780.000
RAL	Amp Gate Width Near	25.000	usec	7449.841	7780.000
RAL	Amp Gate Width Radial	25.000	usec	7449.841	7780.000
RAL	casing od	4.500	inches	7449.841	7780.000
RAL	casing wt	11.600	lbm/ft	7449.841	7780.000
RAL	FB Start Far	291.900	usec	7449.841	7780.000
RAL	FB Start Near	175.391	usec	7449.841	7780.000
RAL	FB Start Radial	175.391	usec	7449.841	7780.000
RAL	FB Thresh Far	10.000	mv	7449.841	7780.000
RAL	FB Thresh Near	4.000	mv	7449.841	7780.000
RAL	FB Thresh Radial	4.000	mv	7449.841	7780.000
RAL	Fluid Travel Time	200.000	usec/ft	7449.841	7779.900

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
		AFAR	SIG	TT5			
1426XA	-10.040						
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

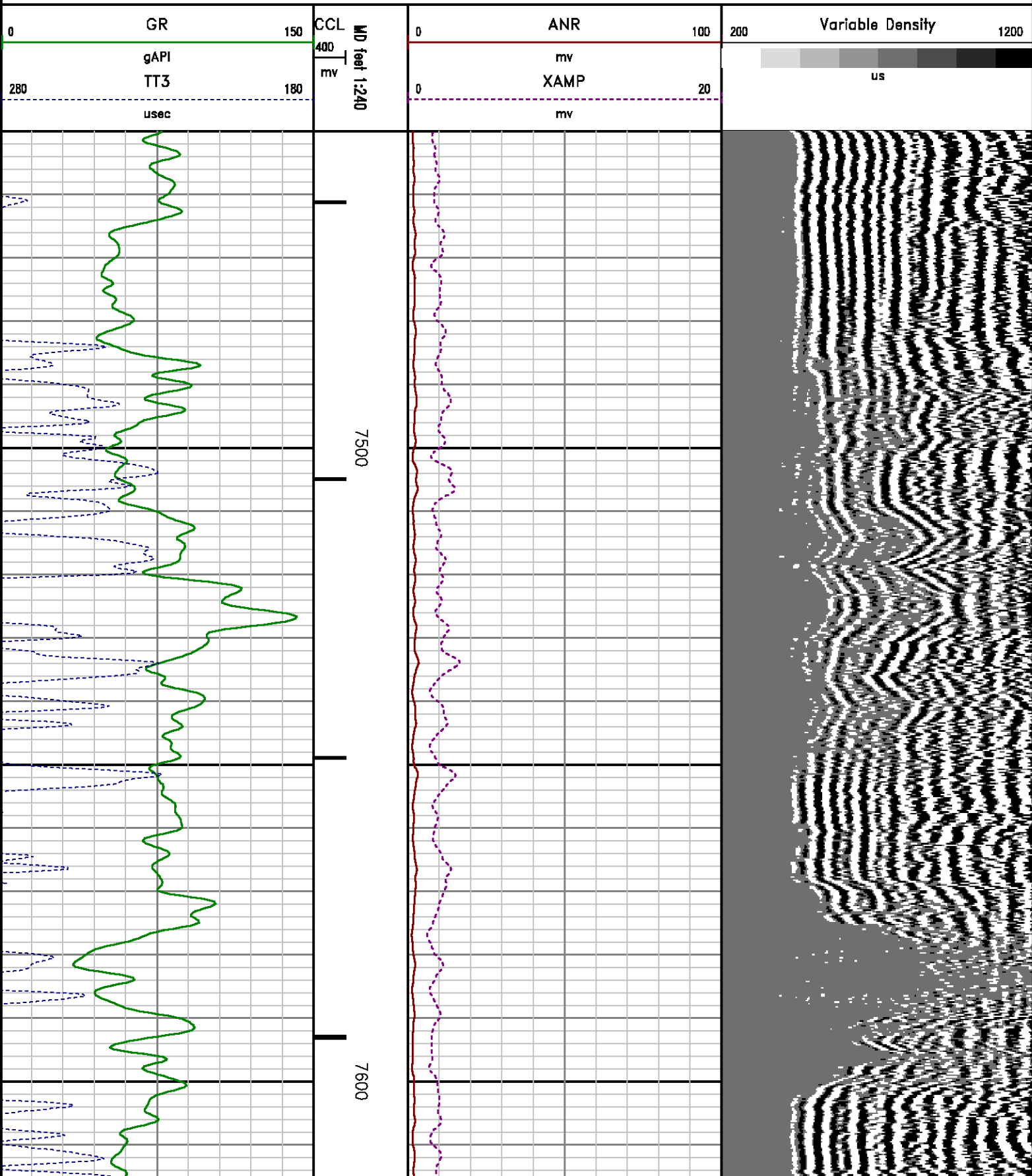
Well : GOLDSBOROUGH PA 512-11

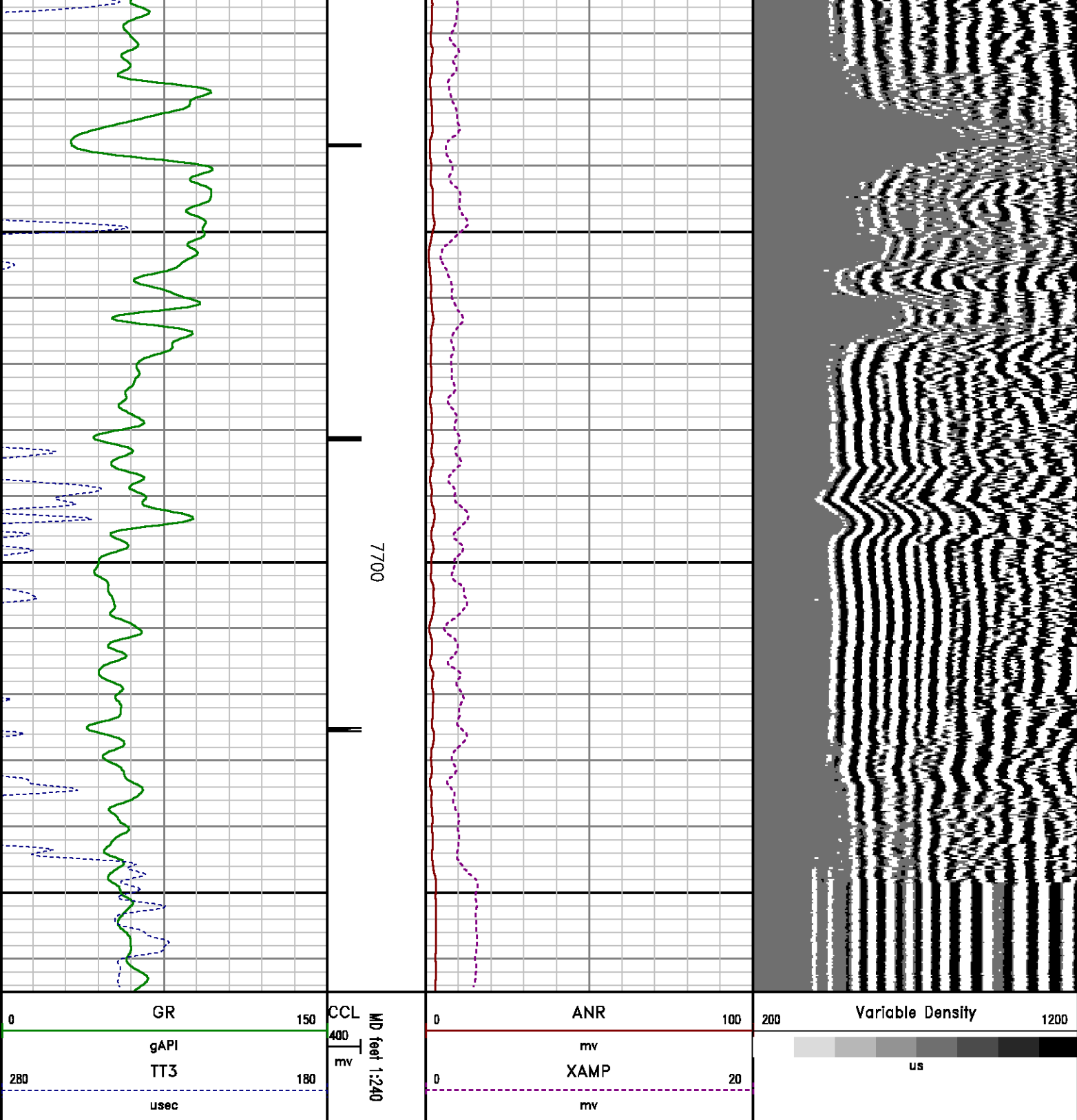
File Name : d:\welldata\512cbl\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 7450.00 - 7765.00 feet UP

Created : 5/22/2013 11:31:17 AM





CALIBRATION SUMMARY

GAMMA RAY #2

Calibration File: C:\case\calver\GR\209M2.cal

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	129.07	523.51	0.469	60.53	245.53	185.00

Verification File: C:\case\calver\GR\209M2.VP

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	131.47	531.85	0.469	61.66	249.45	187.79

RALSHP #2

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
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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 #2

Well-site Calibration: C:\case\calver\RALFLD\539M22.fld.cal

WELLSITE CALIBRATION SUMMARY

Tool Delay
[usec]

-57.00

Casing OD
in

4.50

Casing Wt
lbm/ft

11.60

Casing ID
in

4.00

RECEIVER

Zero Gate
Start
[usec]Zero Gate
Width
[usec]Zero Amp.
[mV]Full Amp.
[mV]

Wellsite Factor

Amp. Ref
[mV]

CAL Pulse

166

25

-0.130

0.000

1.00

100.000

3 Ft. Receiver

200

30

-3.327

5 Ft. Receiver

317

30

-4.557

Radial #1

200

30

-4.688

Radial #2

200

30

-4.174

Radial #3

200

30

-4.047

Radial #4

200

30

-4.364

Radial #5

200

30

-5.982

Radial #6

200

30

-4.615

Radial #7

200

30

-4.783

Radial #8

200

30

-4.774

TOOL DIAGRAM

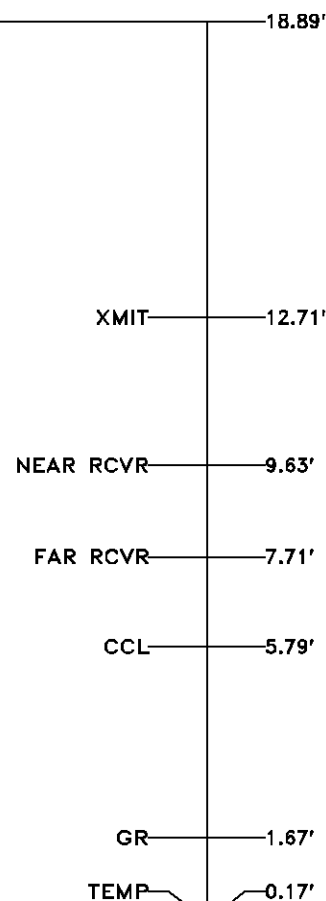
OTA SHORT CABLE HEAD

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 512-11

Field

PARACHUTE

County

GARFIELD

State

COLORADO

File No:

CH072151

API No:

05045218290000

Location

SHL: 2412' FNL & 2045' FWL SEC:11

BHL: 2460' FNL & 1072' FWL SEC:11

Elevations

KB 6295 ft

DF

GL 6274 ft

11 7S 95W

PA 22-11

CYCLONE 17

SEC 11

TWP 7S

RGE 95W