



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH050362	Company Well	WPX ENERGY FEDERAL PA 323-29
API No: 05045195240000	Field County	PARACHUTE GARFIELD
	State	COLORADO
29-16S-R9SW DDE 3-W-29 pod Nobora 577	Location SHL: 585' FSL 2265' FWL BHL: 1669' FSL 1986' FWL SEC 29 TWP 6S RGE 9SW	Other Services RPM
Permanent Datum Log Measured From Drill Measured From	GL KB KELLY BUSHING	Elevations 5675 ft Above P. D. KB 5702 ft DF GL 5675 ft

Date	27 FEB 2012	
Run	ONE	
Service Order	574780	
Depth Driller	7700 ft	
Depth Logger	7685 ft	
Bottom Logged Interval	7675 ft	
Top Logged Interval	26 ft	
Time Started	1800	
Time Finished	1800	
Operator Rig Time	2 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	NA	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	210 degF	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4214	GRAND JCT
Recorded By	JACOB STALEY	
Witnessed By	Dustin Weisen	

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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	2213 ft
7.875 In	0 ft	7700 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In			0 ft	2213 ft
4.5 In			0 ft	7700 ft

Remarks
ALL DATA IS DEPTH SHIFTED TO PUT THE TOP CCL MARK ON DEPTH WITH GROUND LEVEL WITH A SHIFT OF +8 FT
LOGGED WITH 0 PSI AT WELLHEAD
SJ = 4210'-4232'
BHT = 210 DEG F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10417452	CENT
1	1	GR/CCL	2459XA	10218503	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.000	usec	23.781	7732.000
RAL	Amp Gate Start Near	195.000	usec	23.781	7732.000
RAL	Amp Gate Start Radial	195.000	usec	23.781	7732.000
RAL	Amp Gate Width Far	25.000	usec	23.781	7732.000
RAL	Amp Gate Width Near	25.000	usec	23.781	7732.000
RAL	Amp Gate Width Radial	25.000	usec	23.781	7732.000
RAL	casing od	4.500	inches	23.781	7732.000
RAL	casing wt	11.600	lbm/ft	23.781	7732.000
RAL	FB Start Far	291.900	usec	23.781	7732.000
RAL	FB Start Near	180.000	usec	23.781	7732.000
RAL	FB Start Radial	180.000	usec	23.781	7732.000
RAL	FB Thresh Far	10.000	mv	23.781	7732.000
RAL	FB Thresh Near	4.000	mv	23.781	7732.000
RAL	FB Thresh Radial	4.000	mv	23.781	7732.000
RAL	Fluid Travel Time	200.000	usec/ft	23.781	7731.968

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

1426XA -15.750
2459XA -11.340
2459XA -9.490
2459XA -4.090

FPR3	FPR5	TT3	TTR1	TTR2	TTR3
TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
AFAR	SIG	TT5			
CCL					
GR					
NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

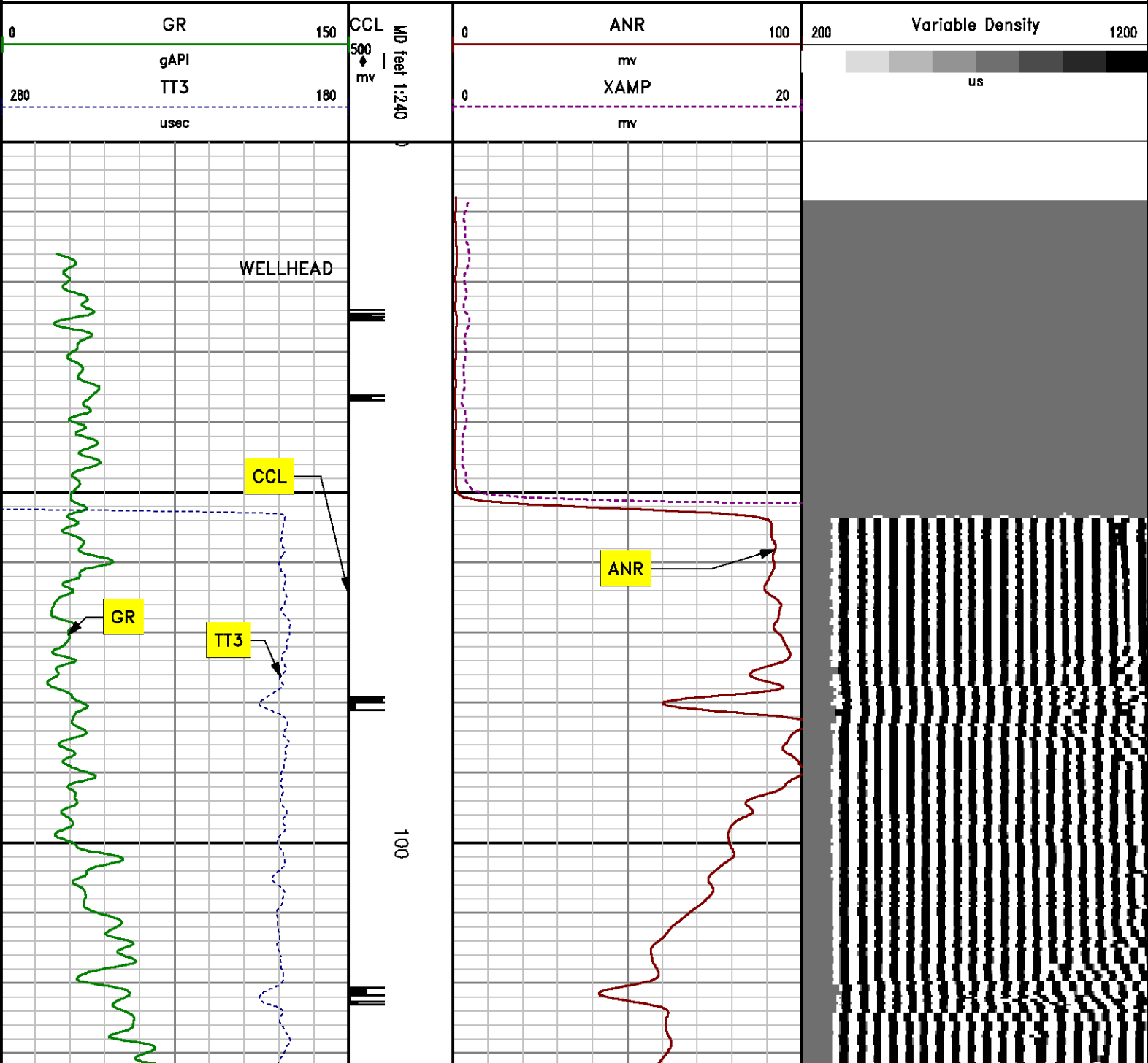
Well : FEDERAL PA 323-29

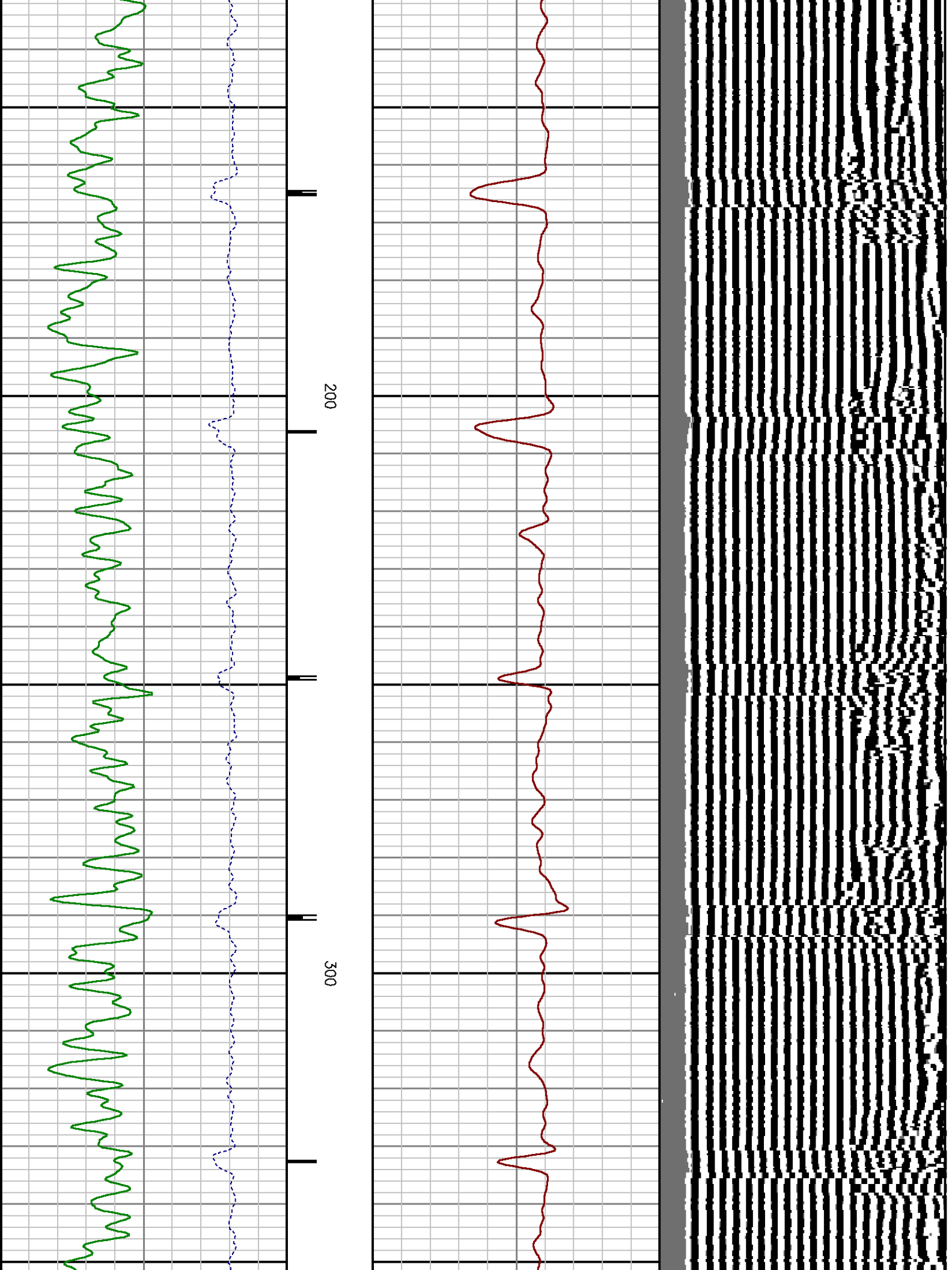
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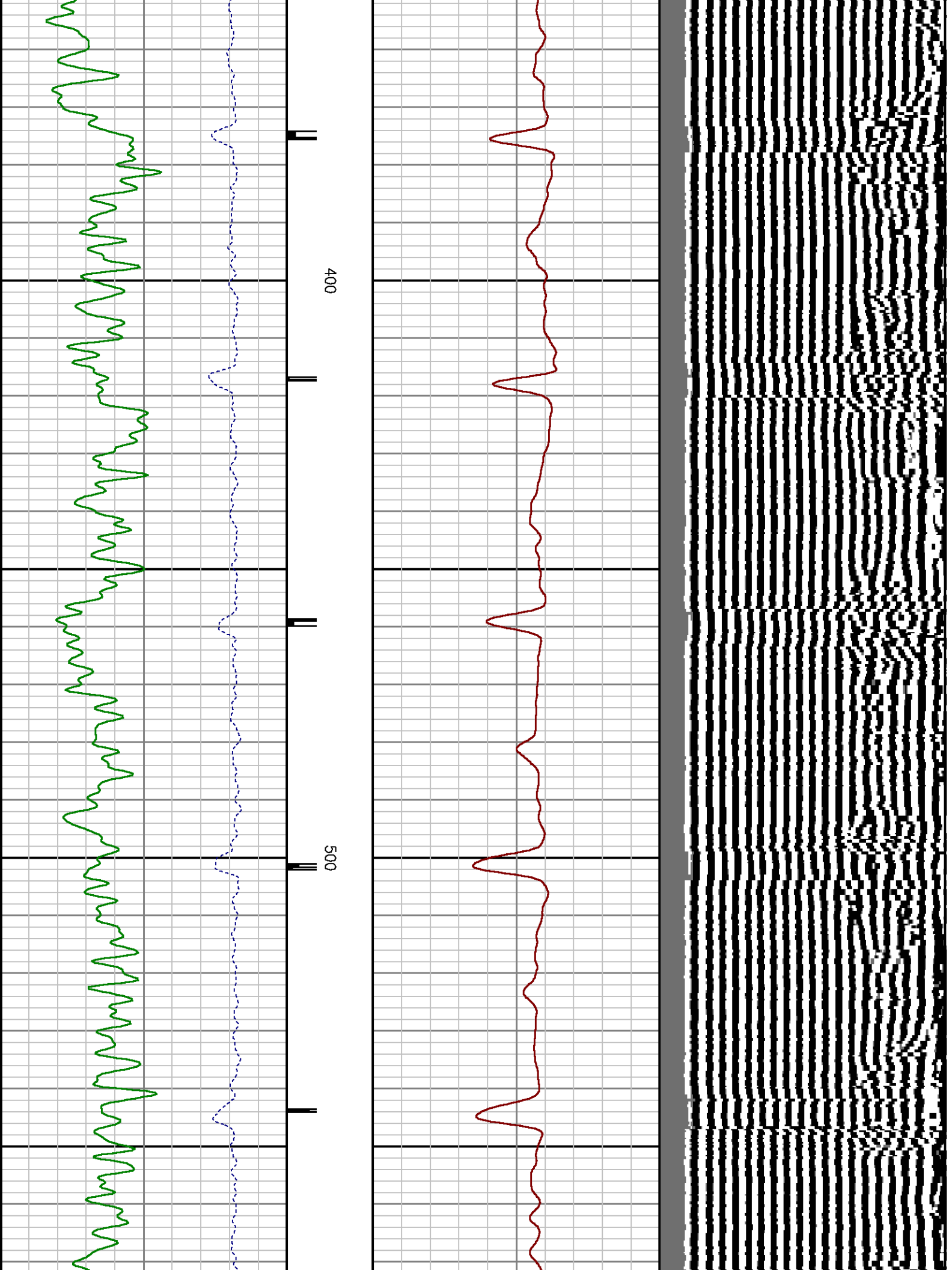
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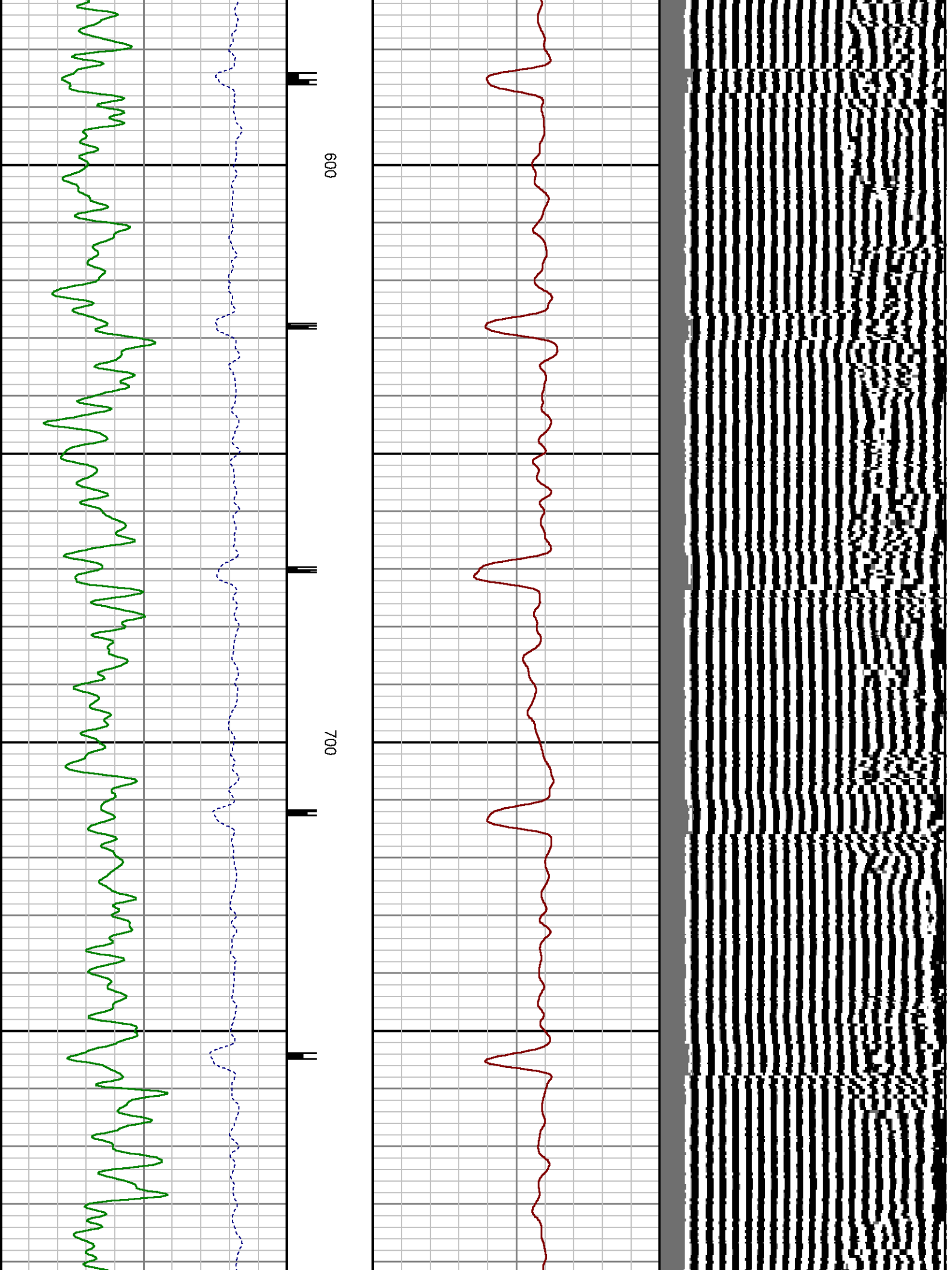
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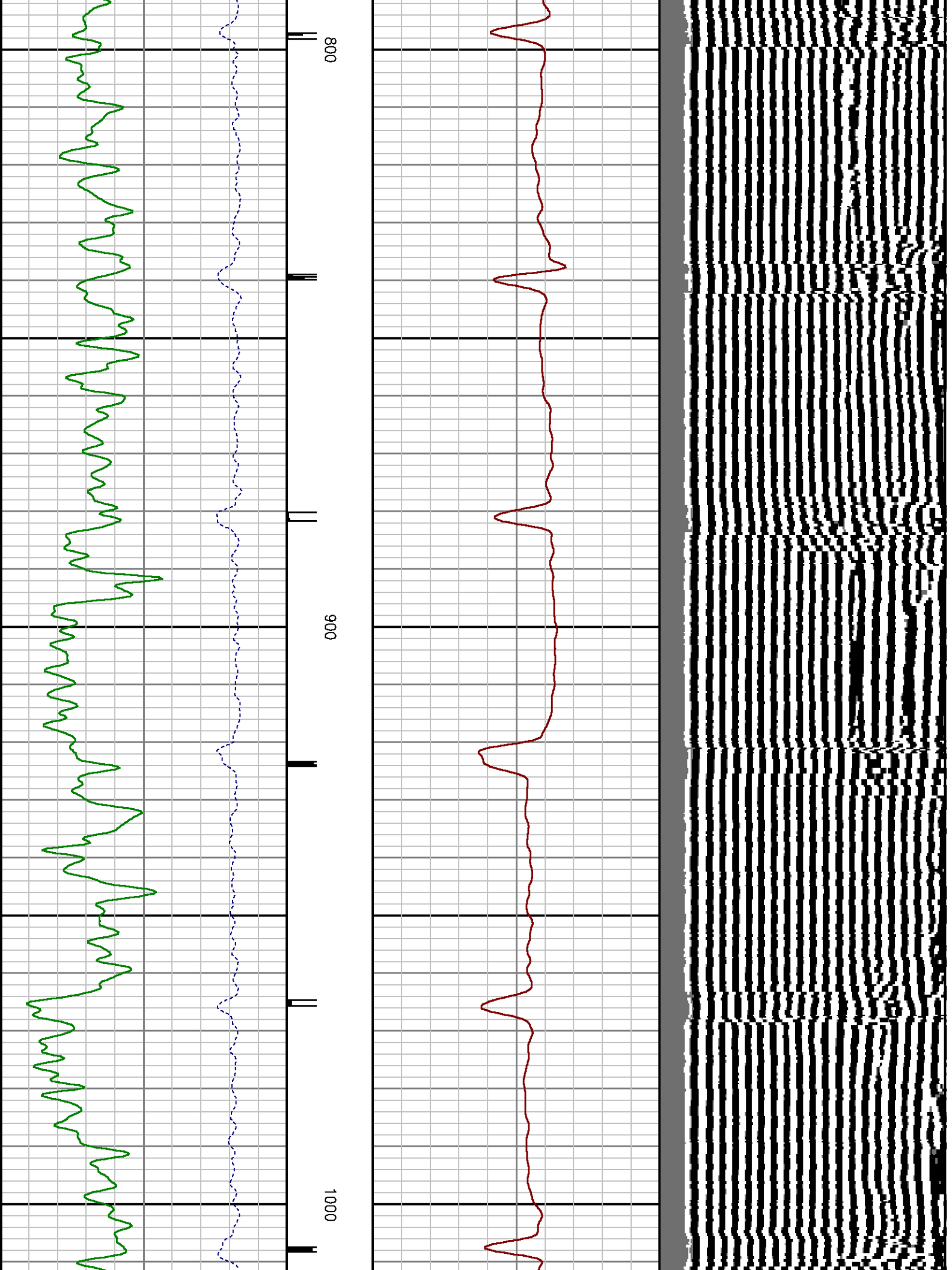
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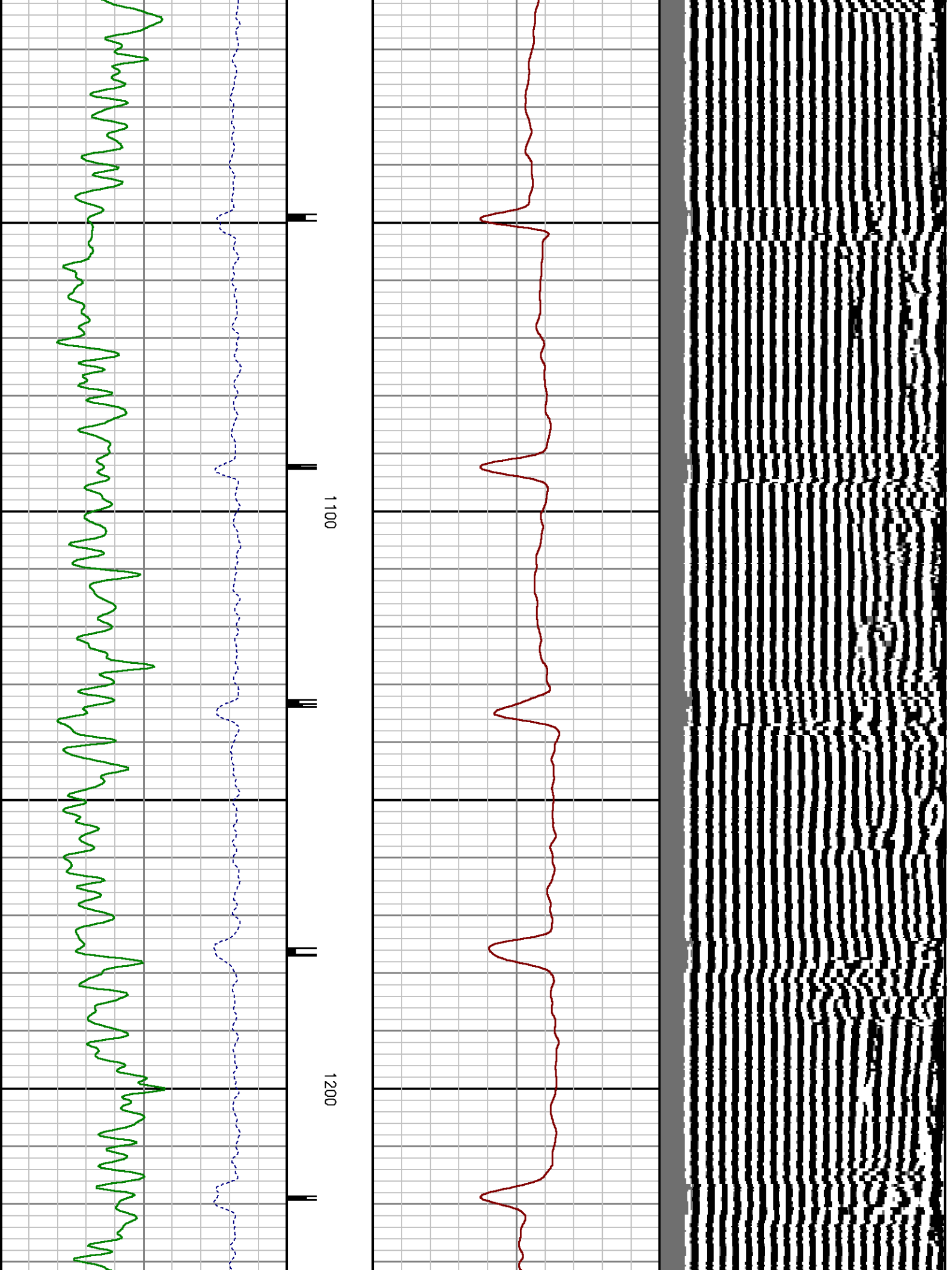


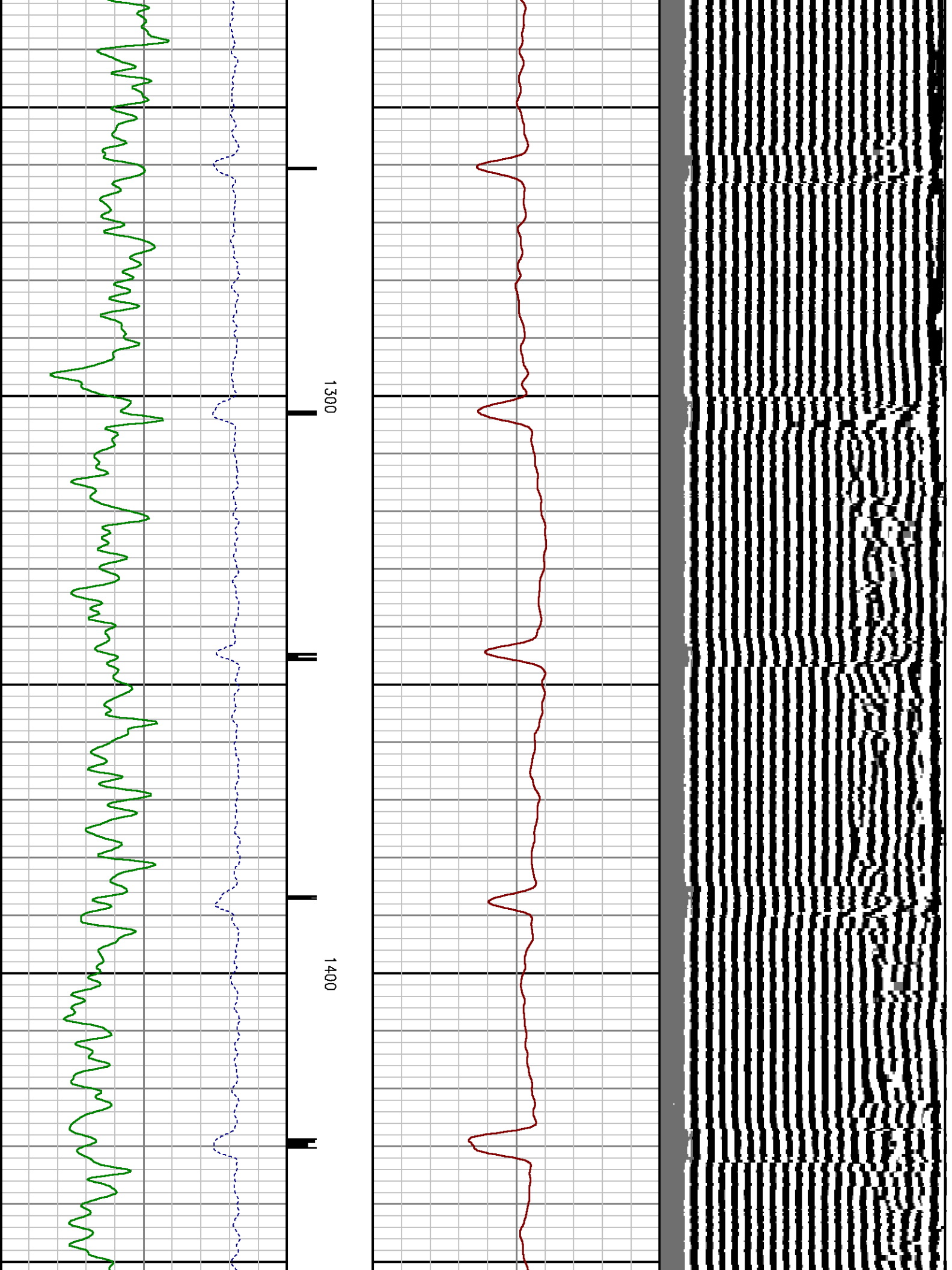


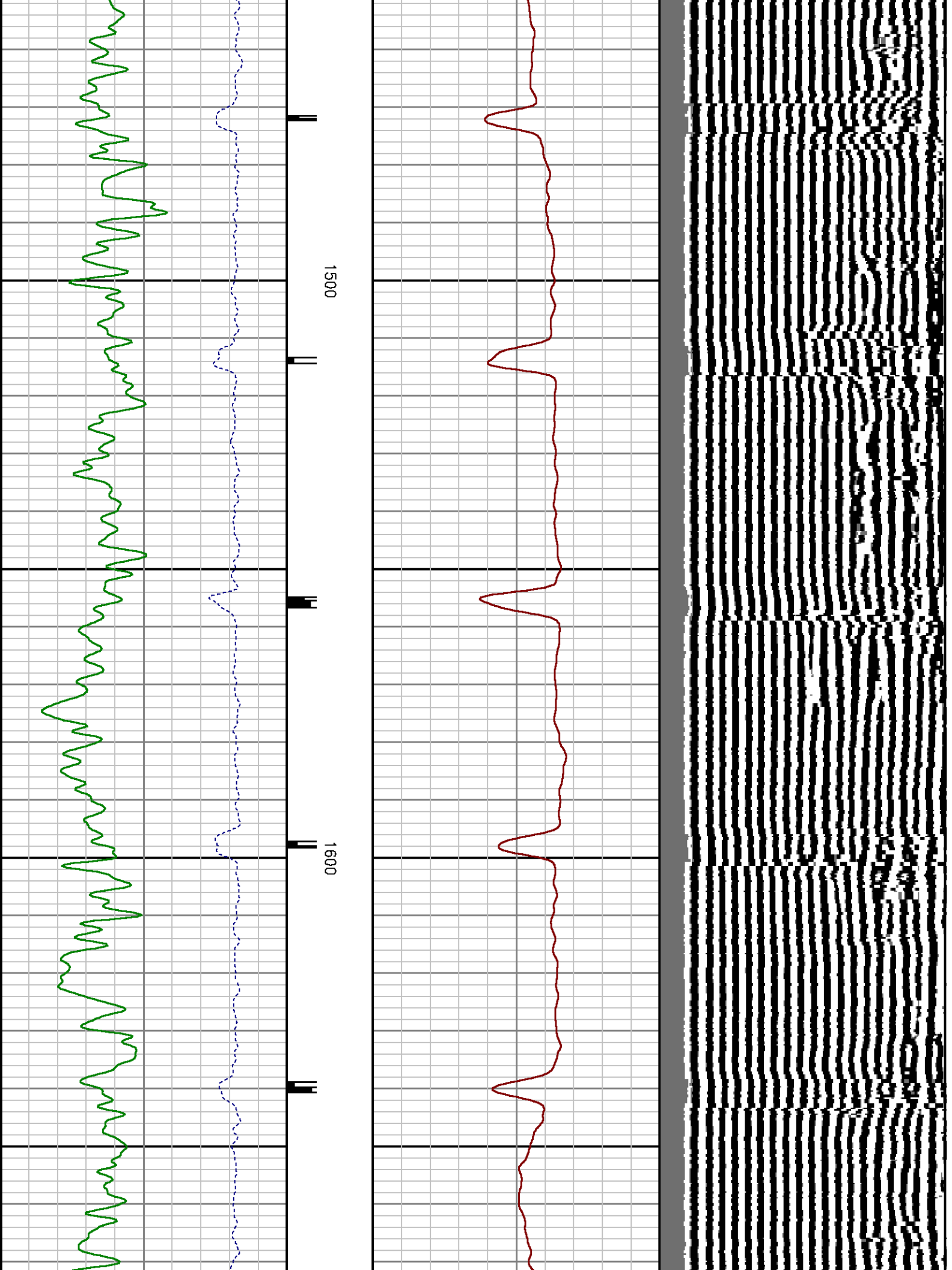


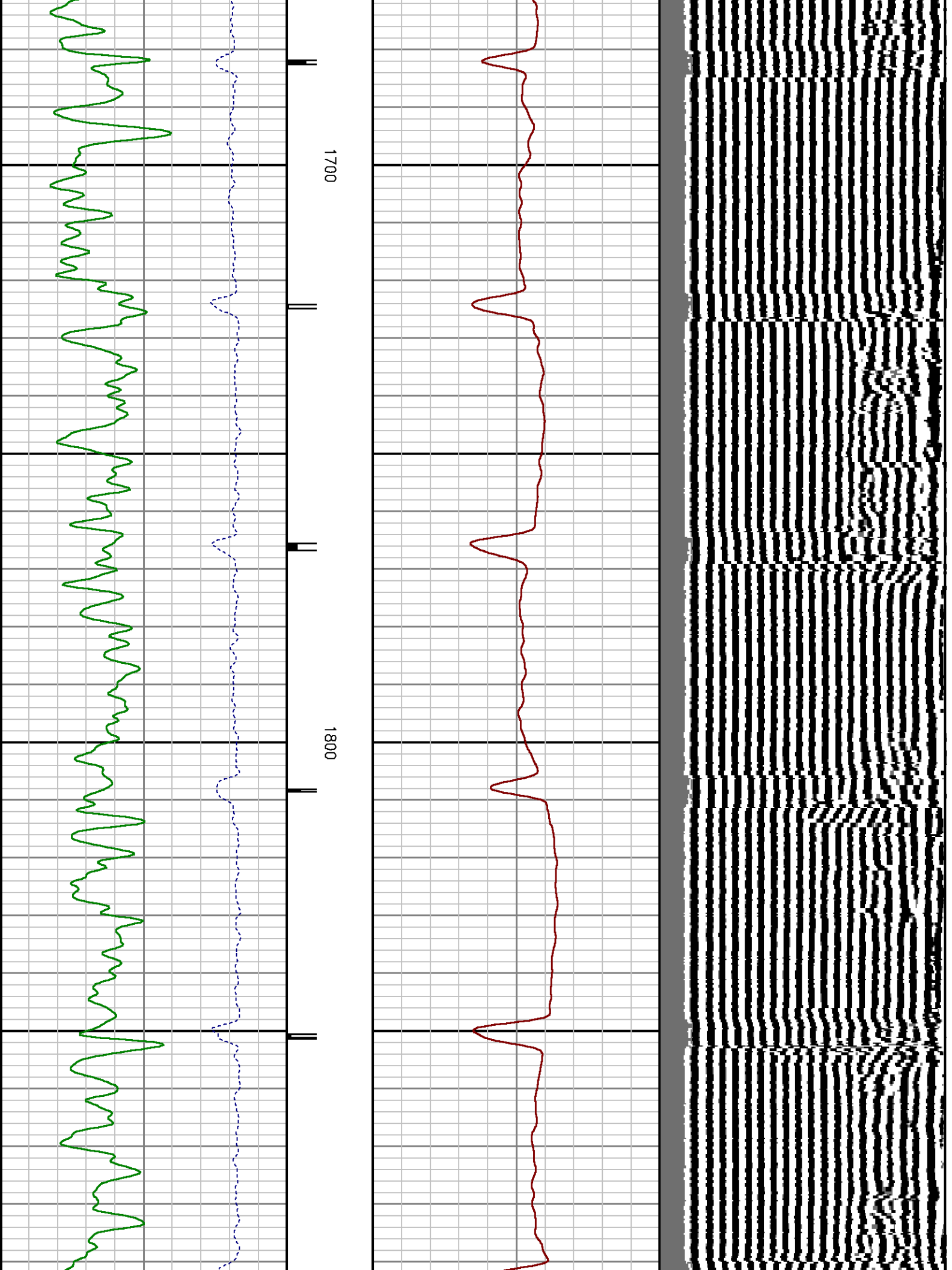


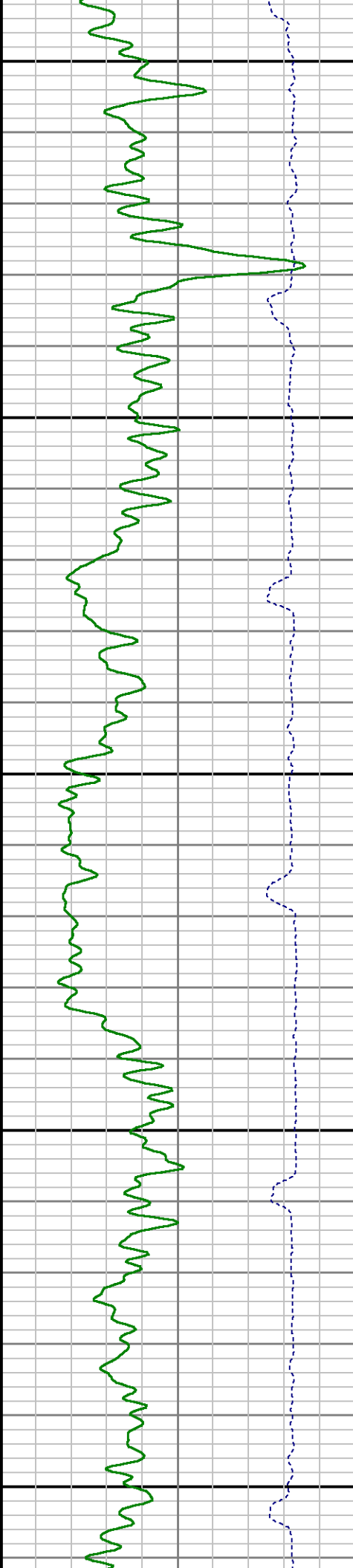
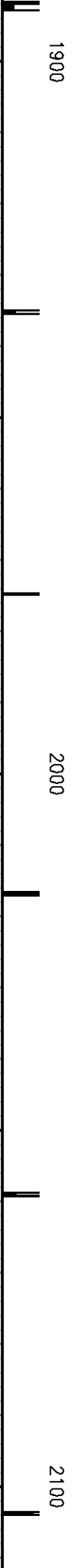
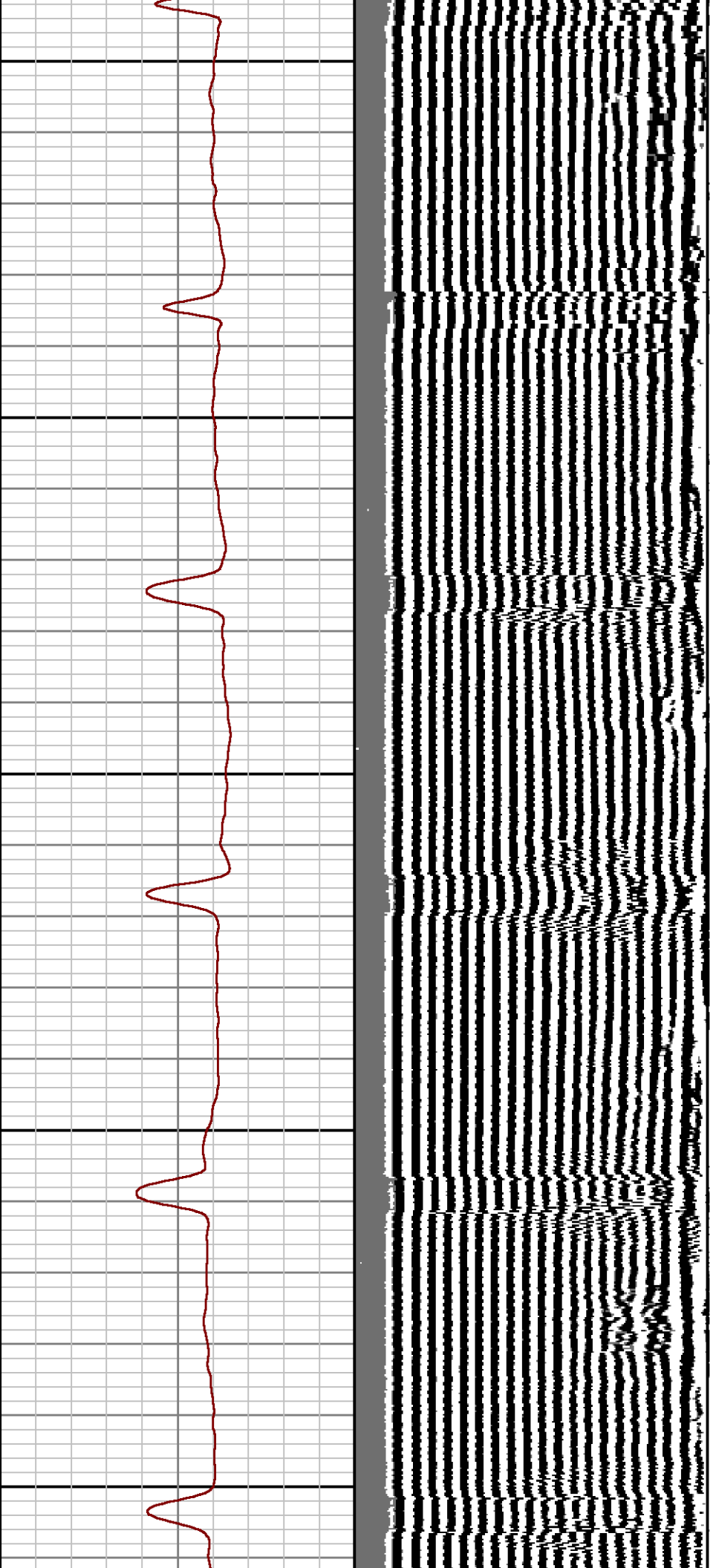


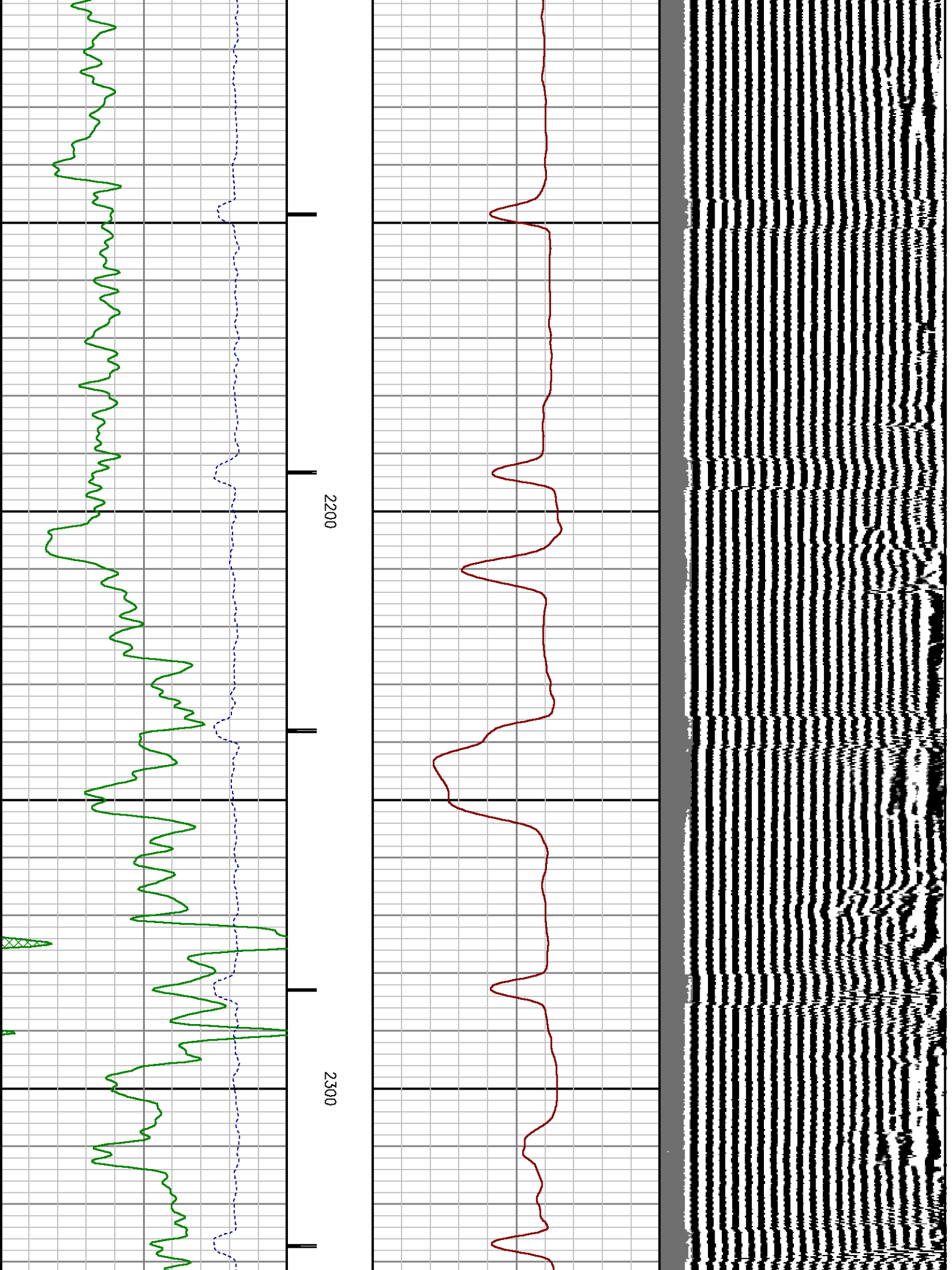


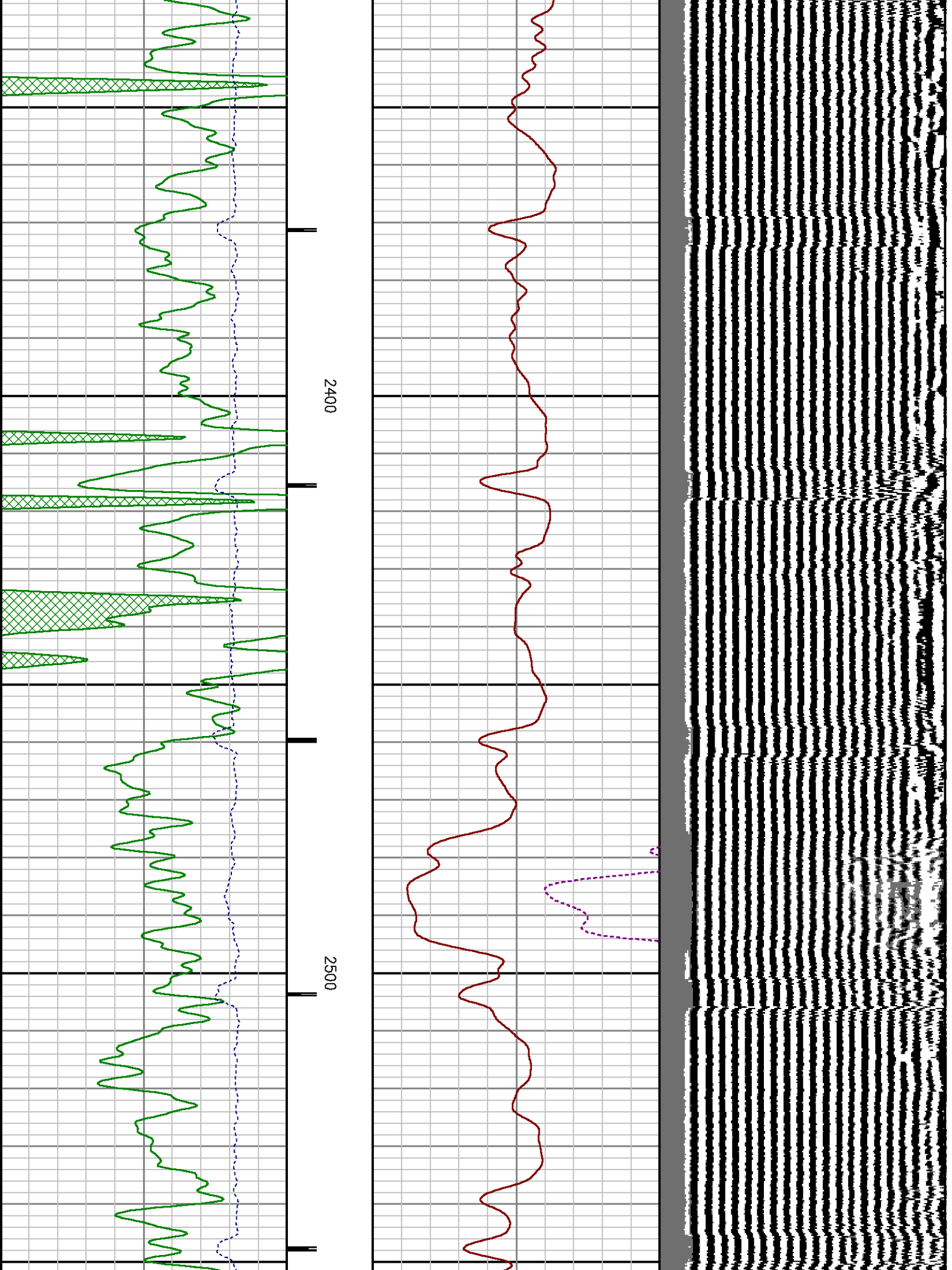


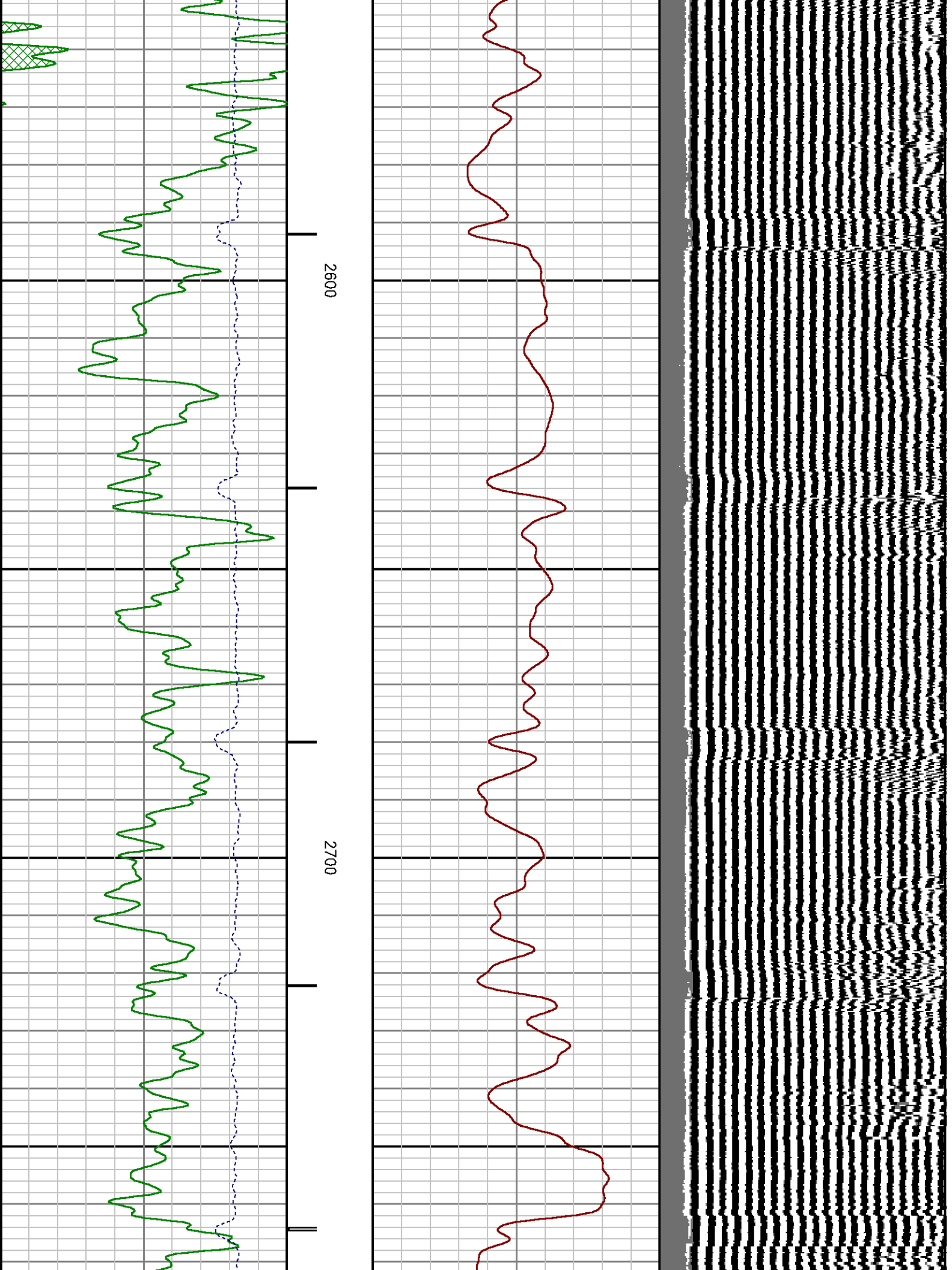


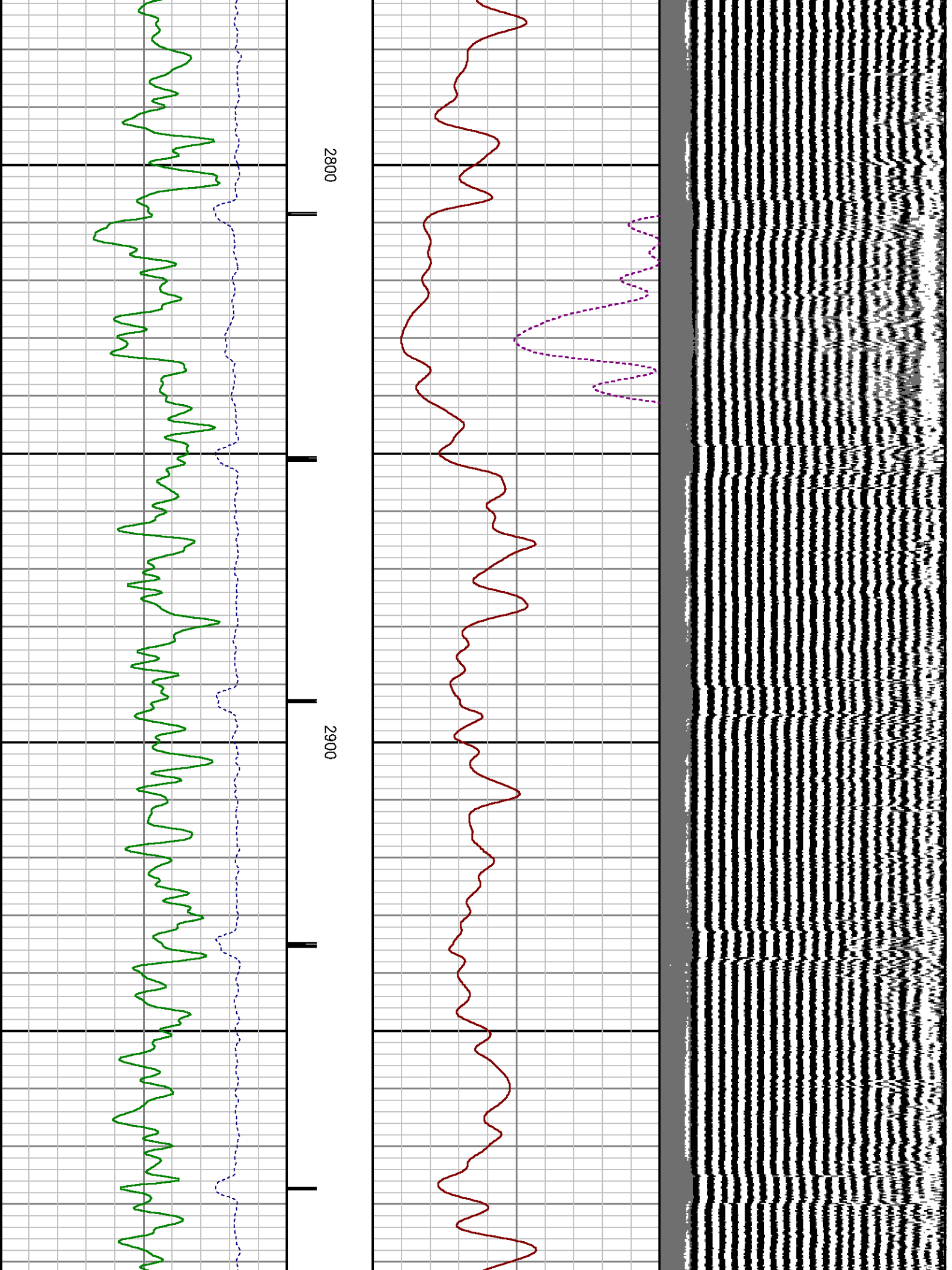


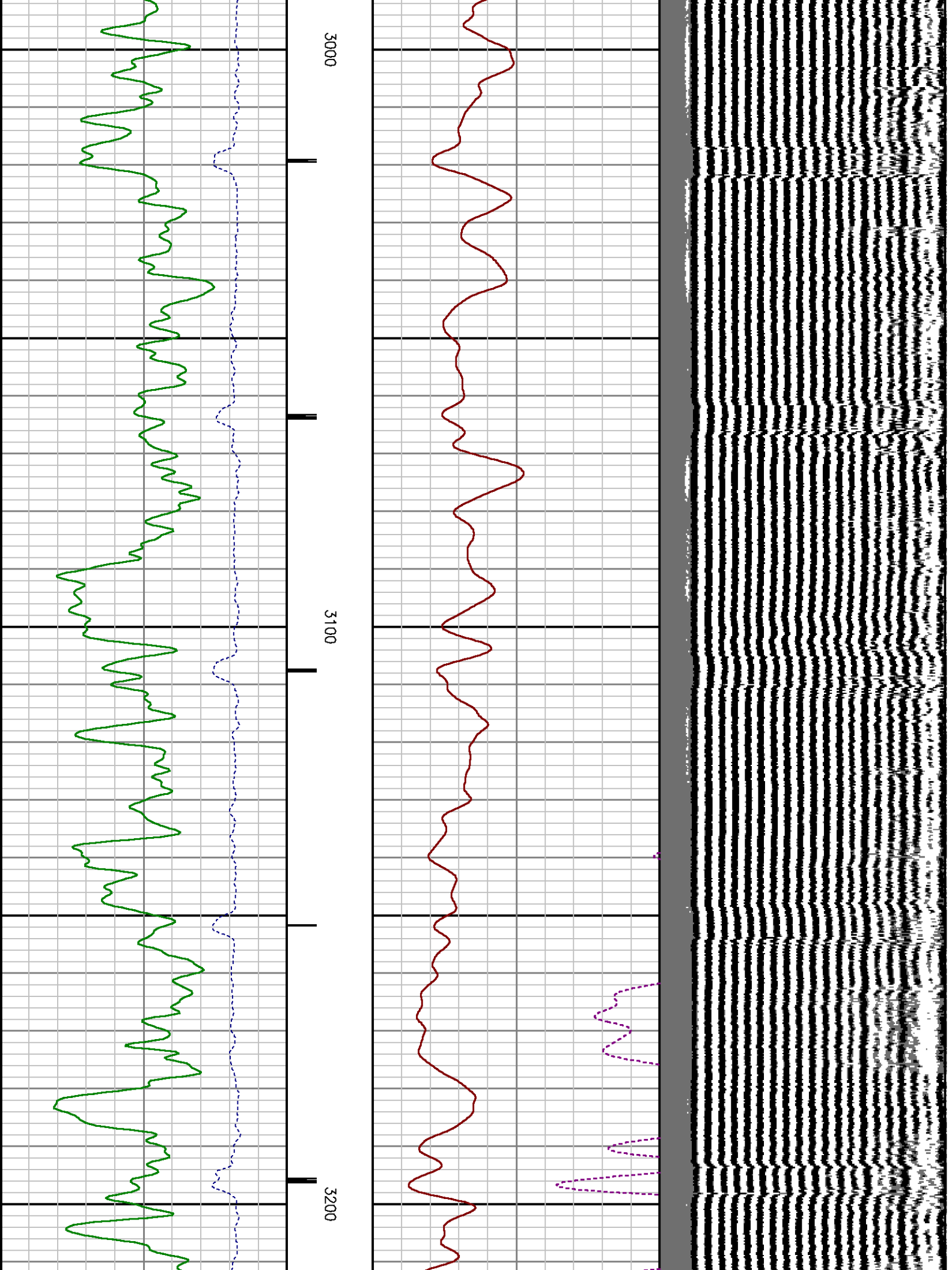


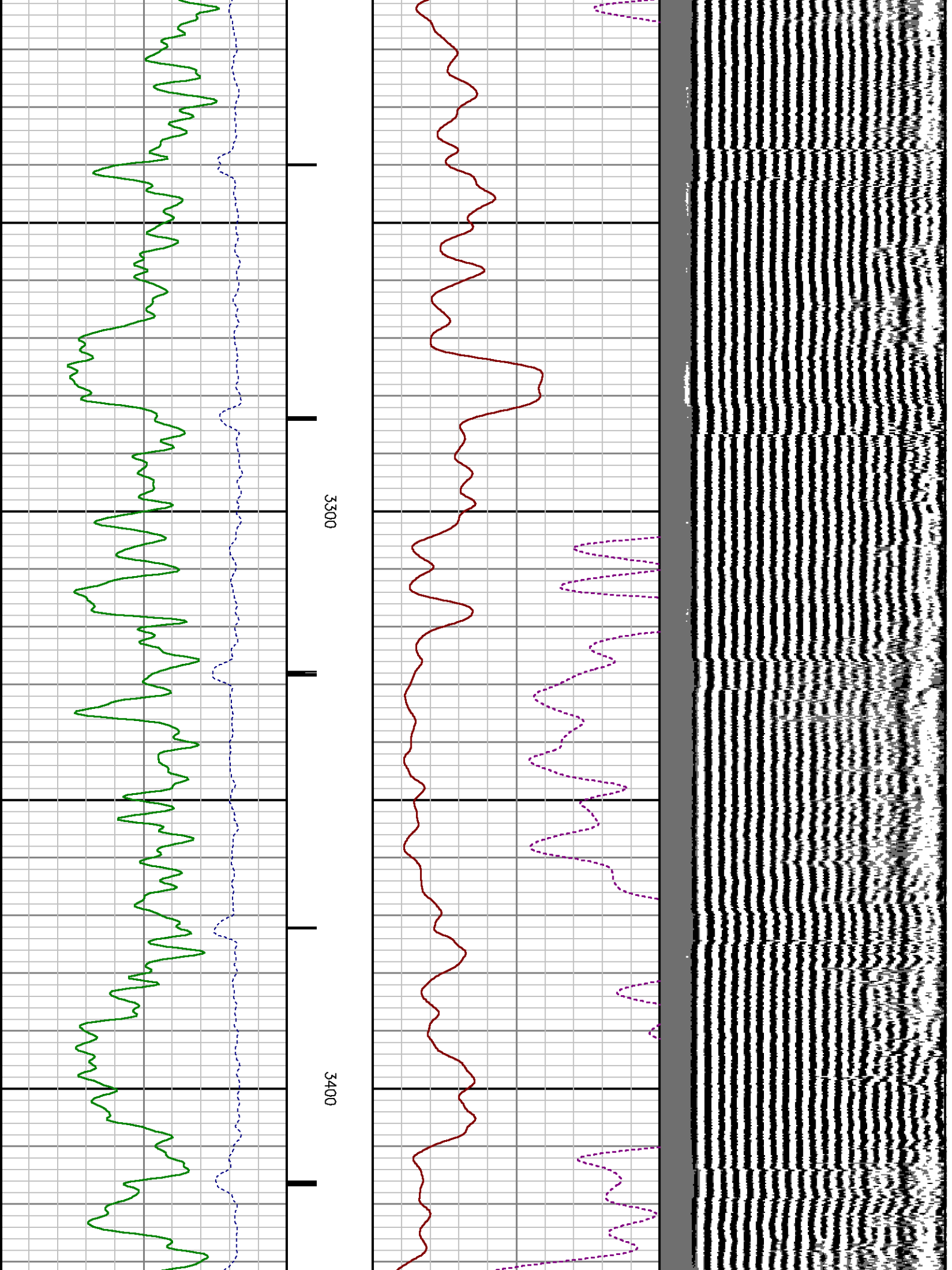


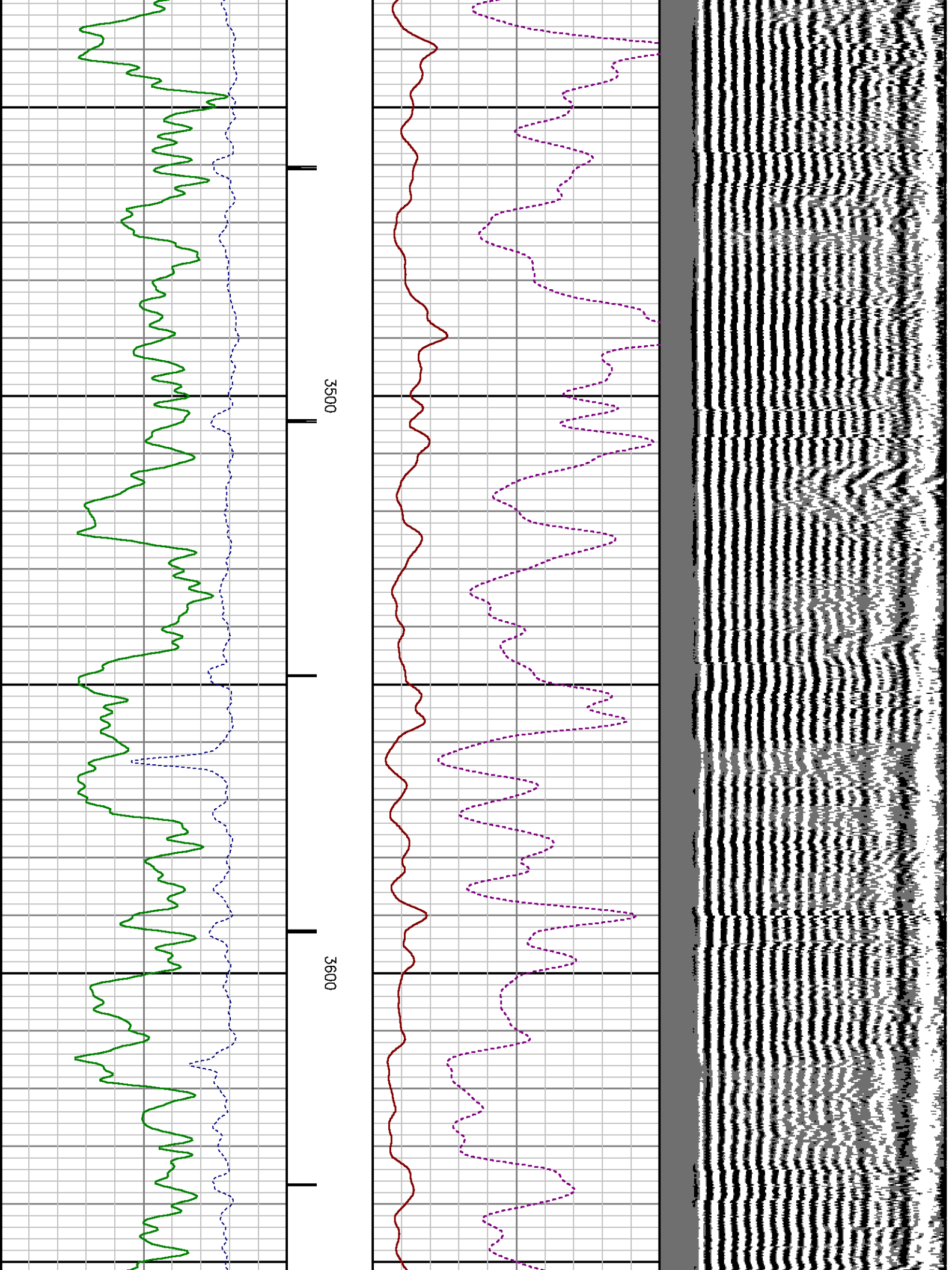


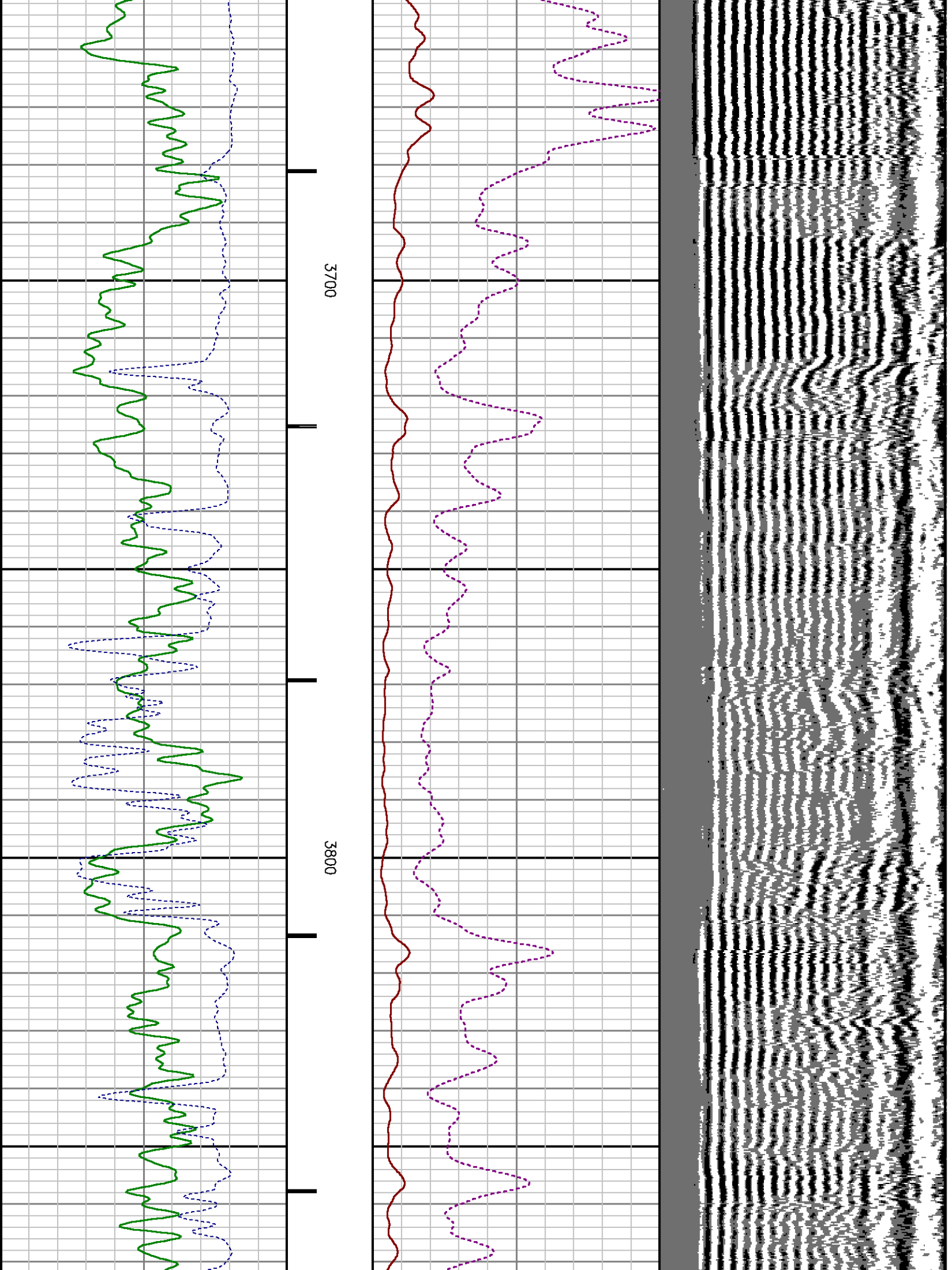


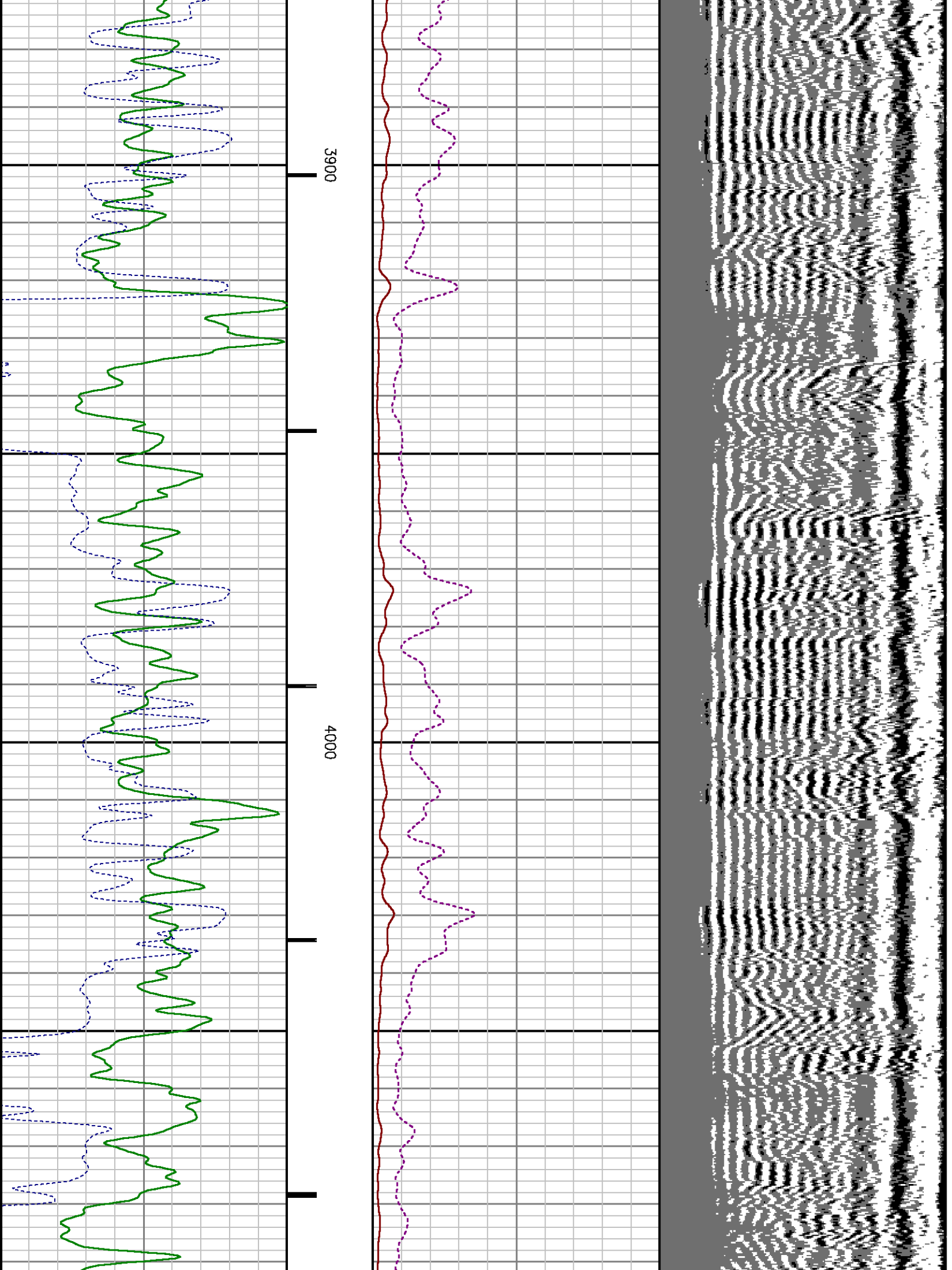


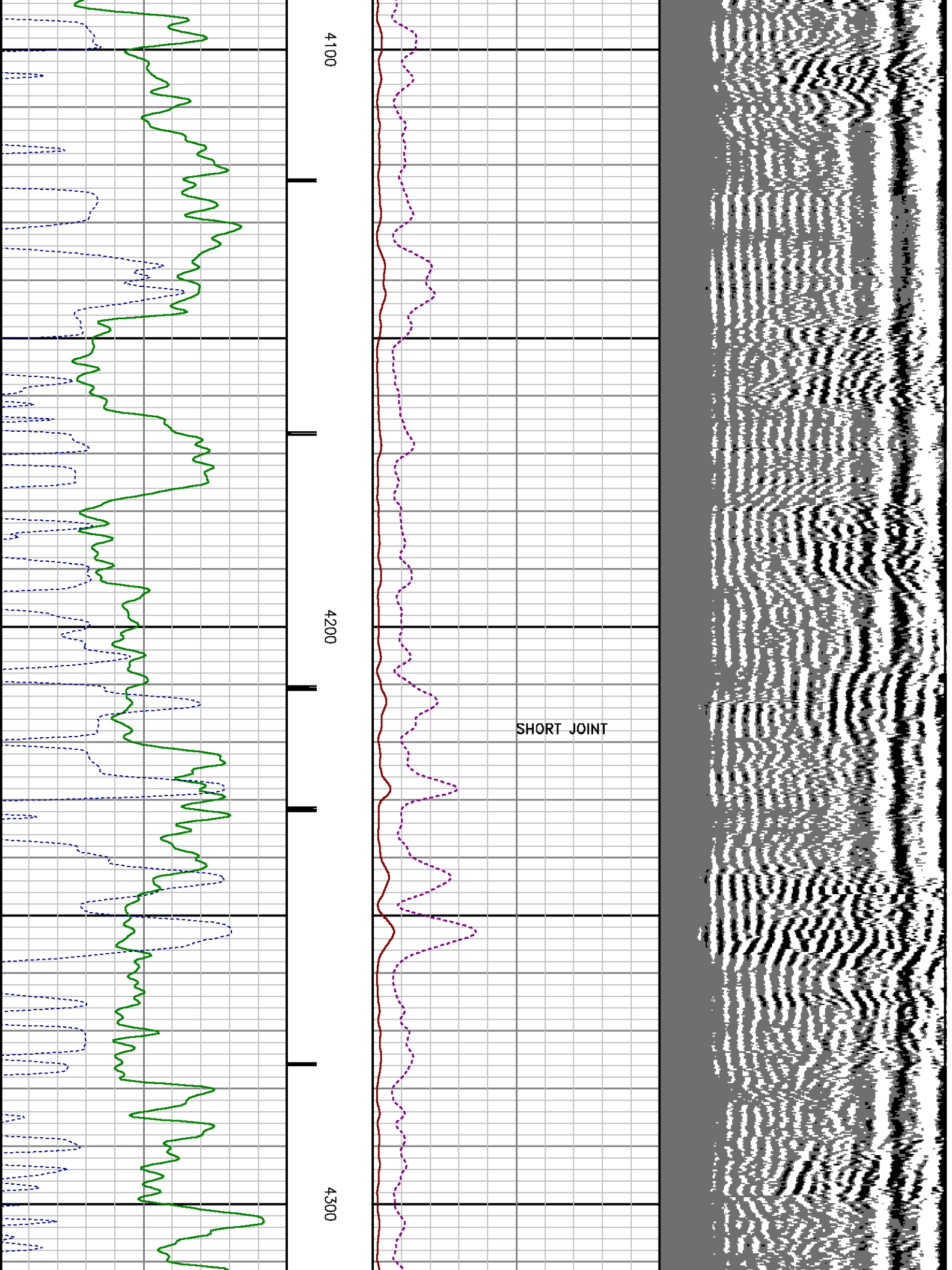


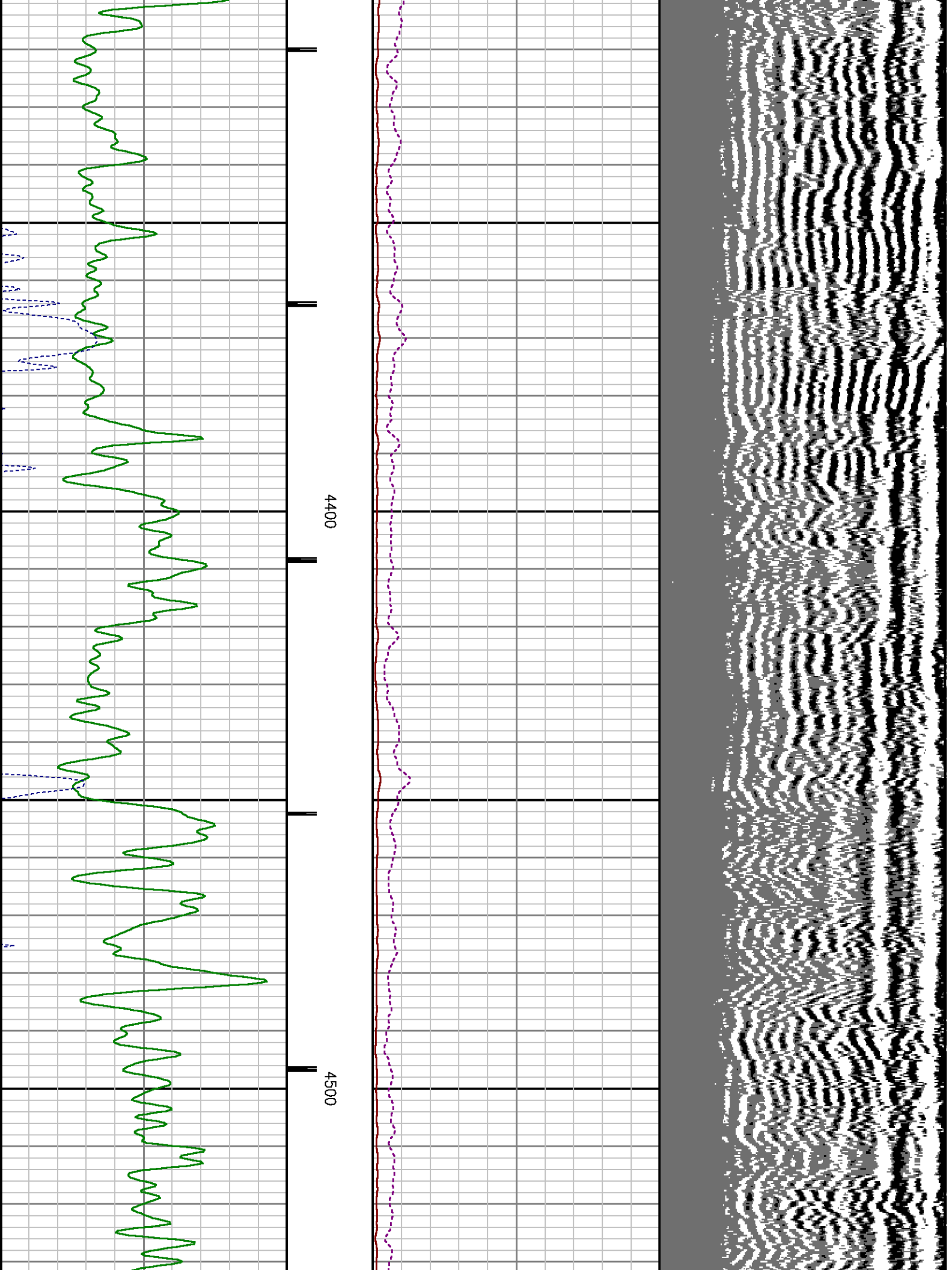


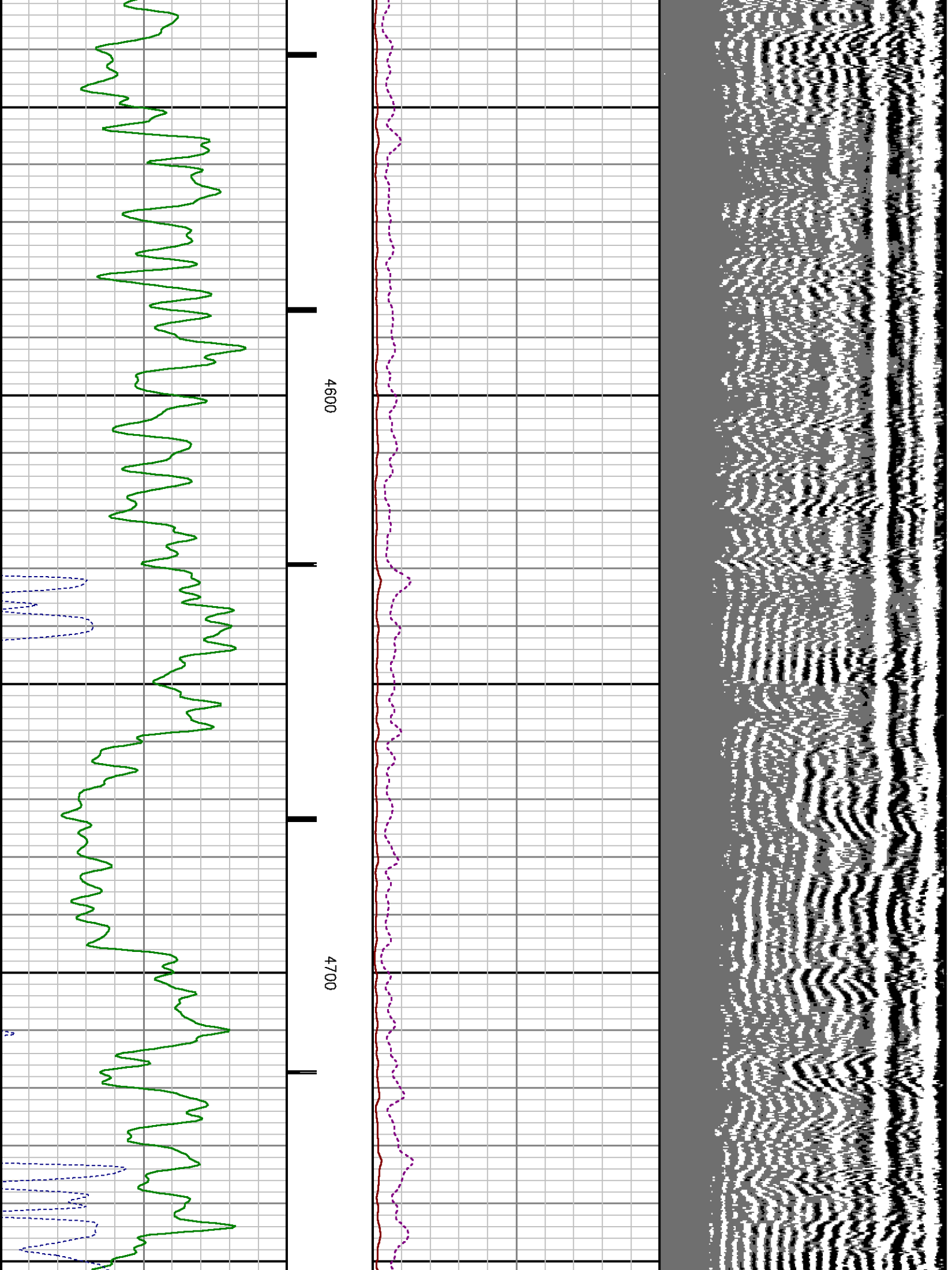


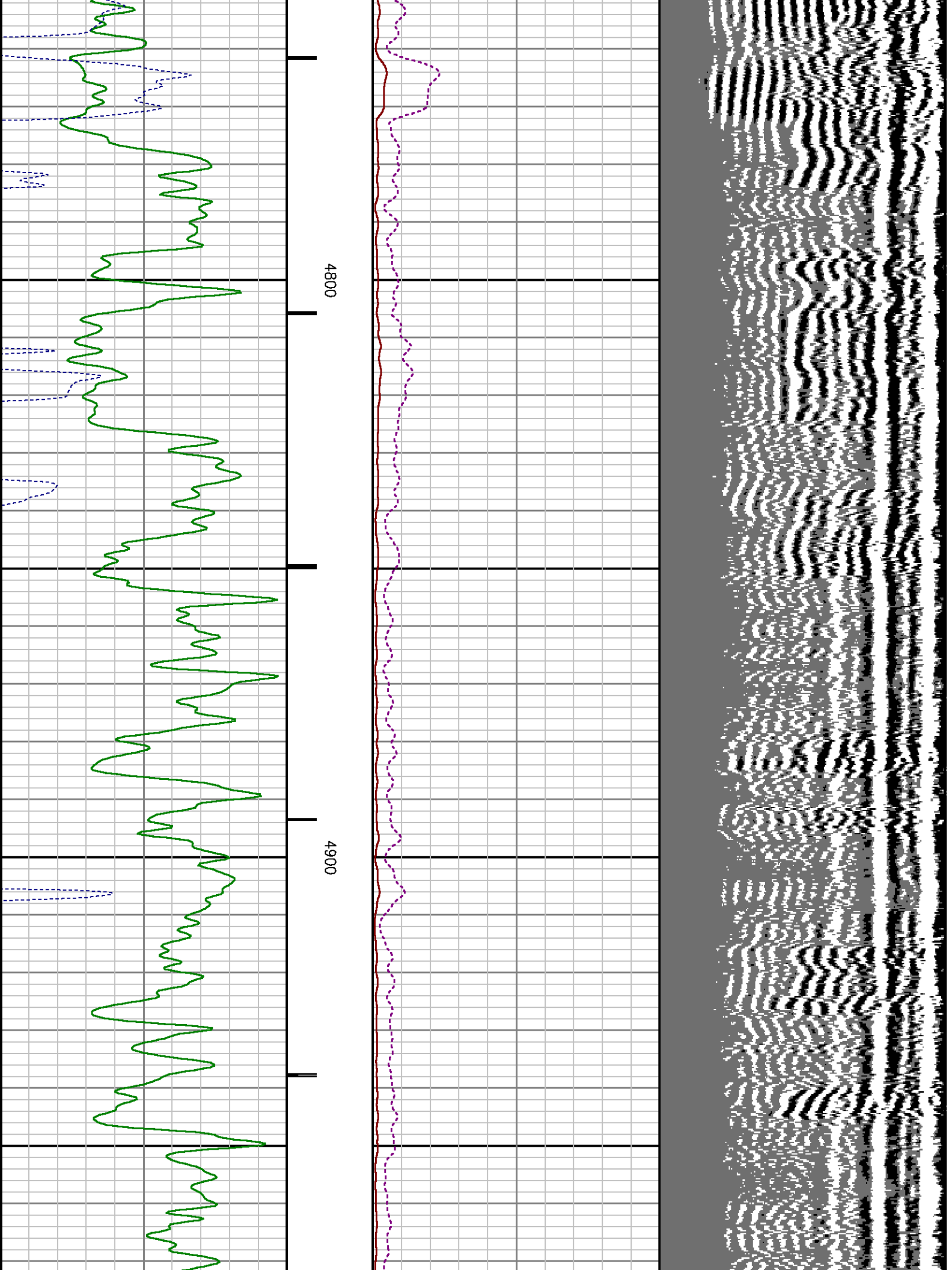


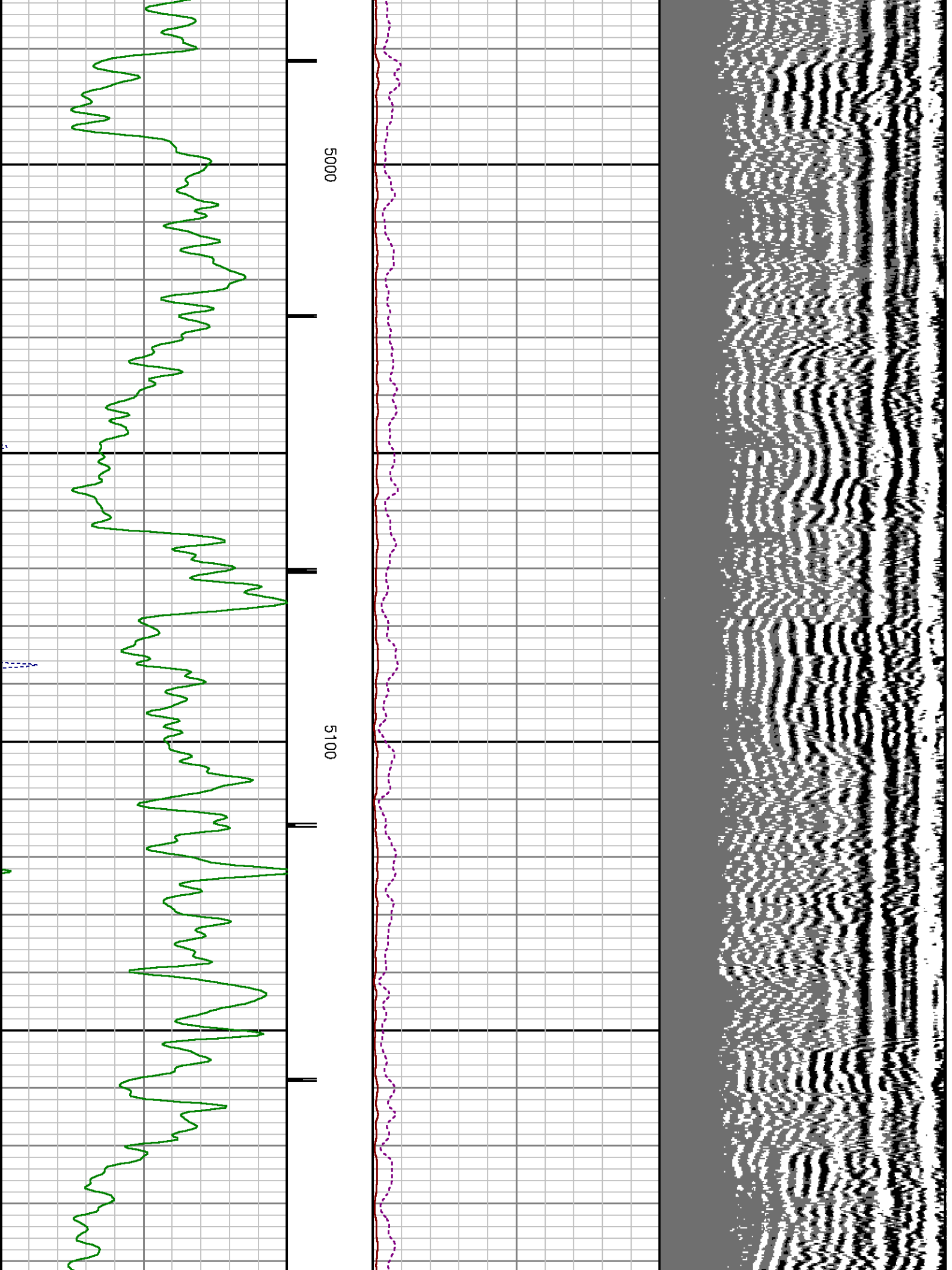


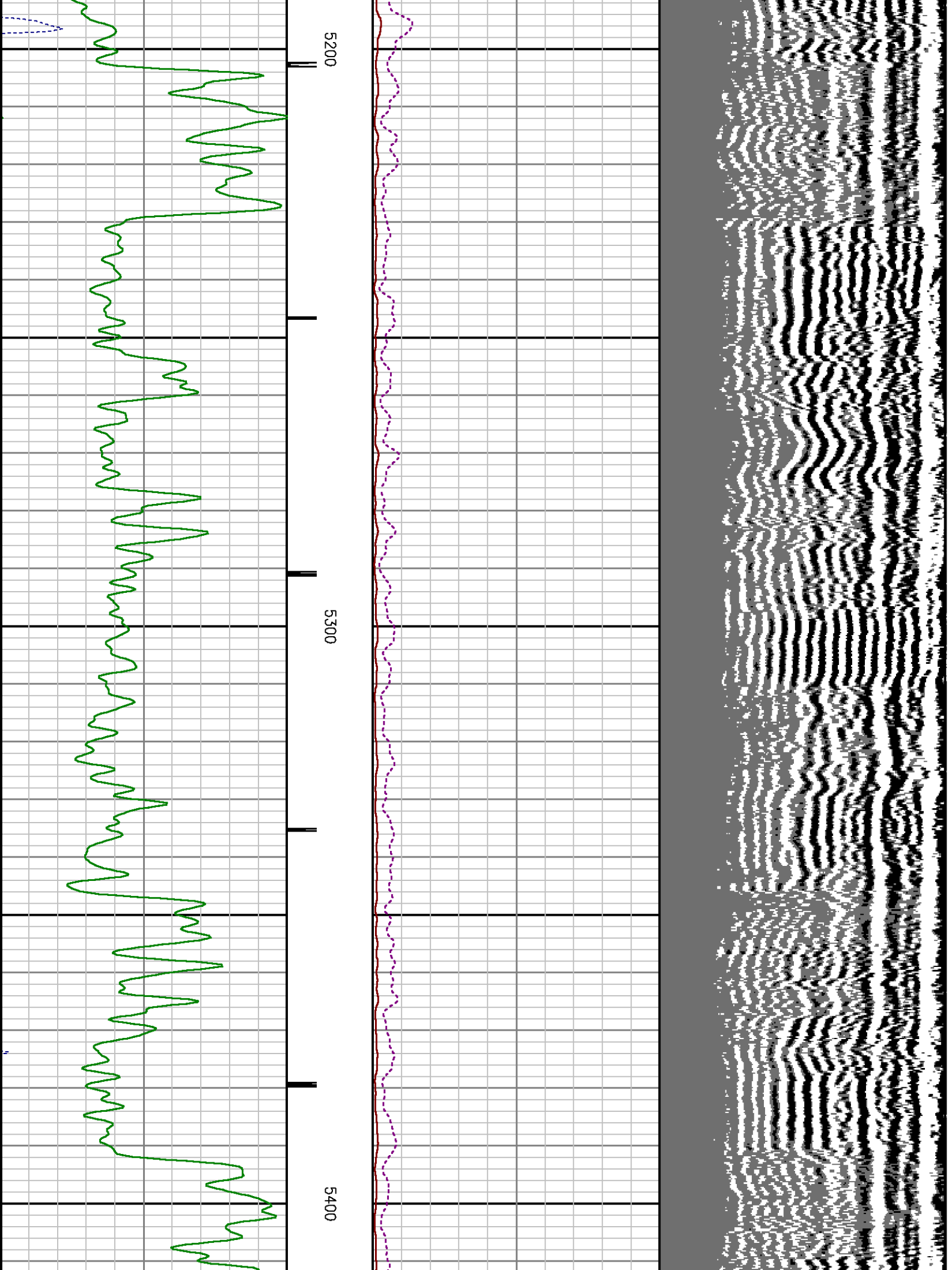


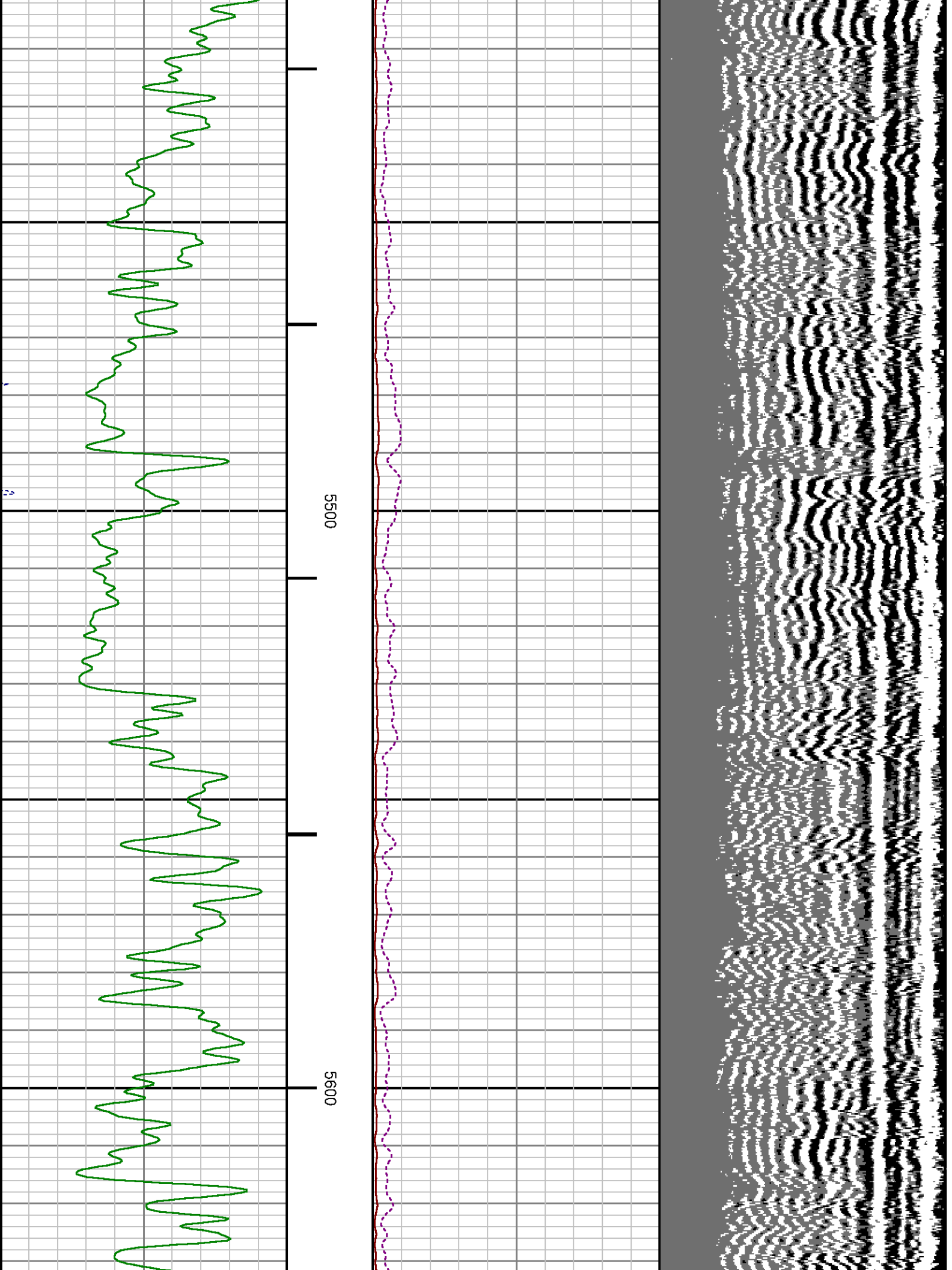


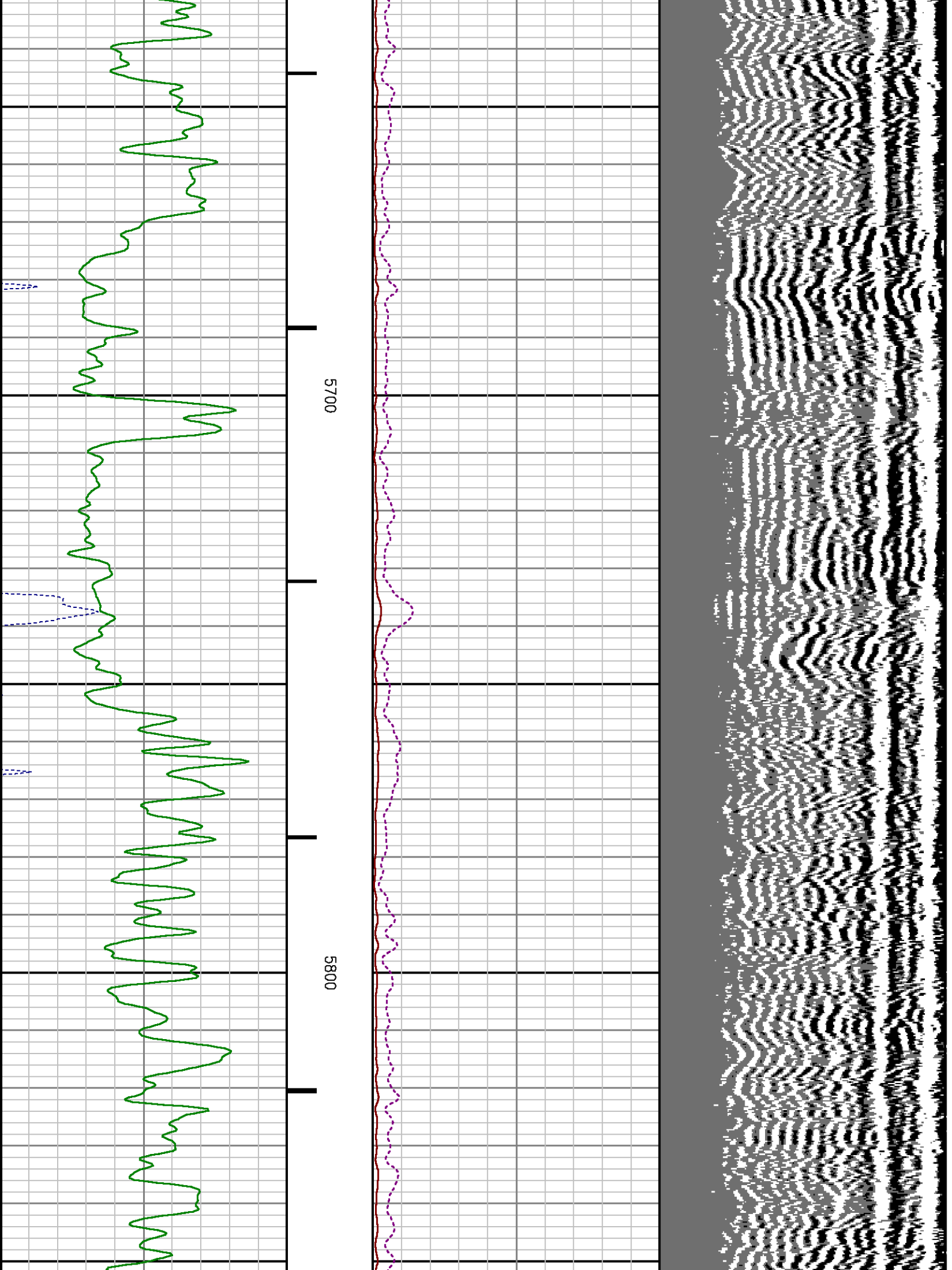


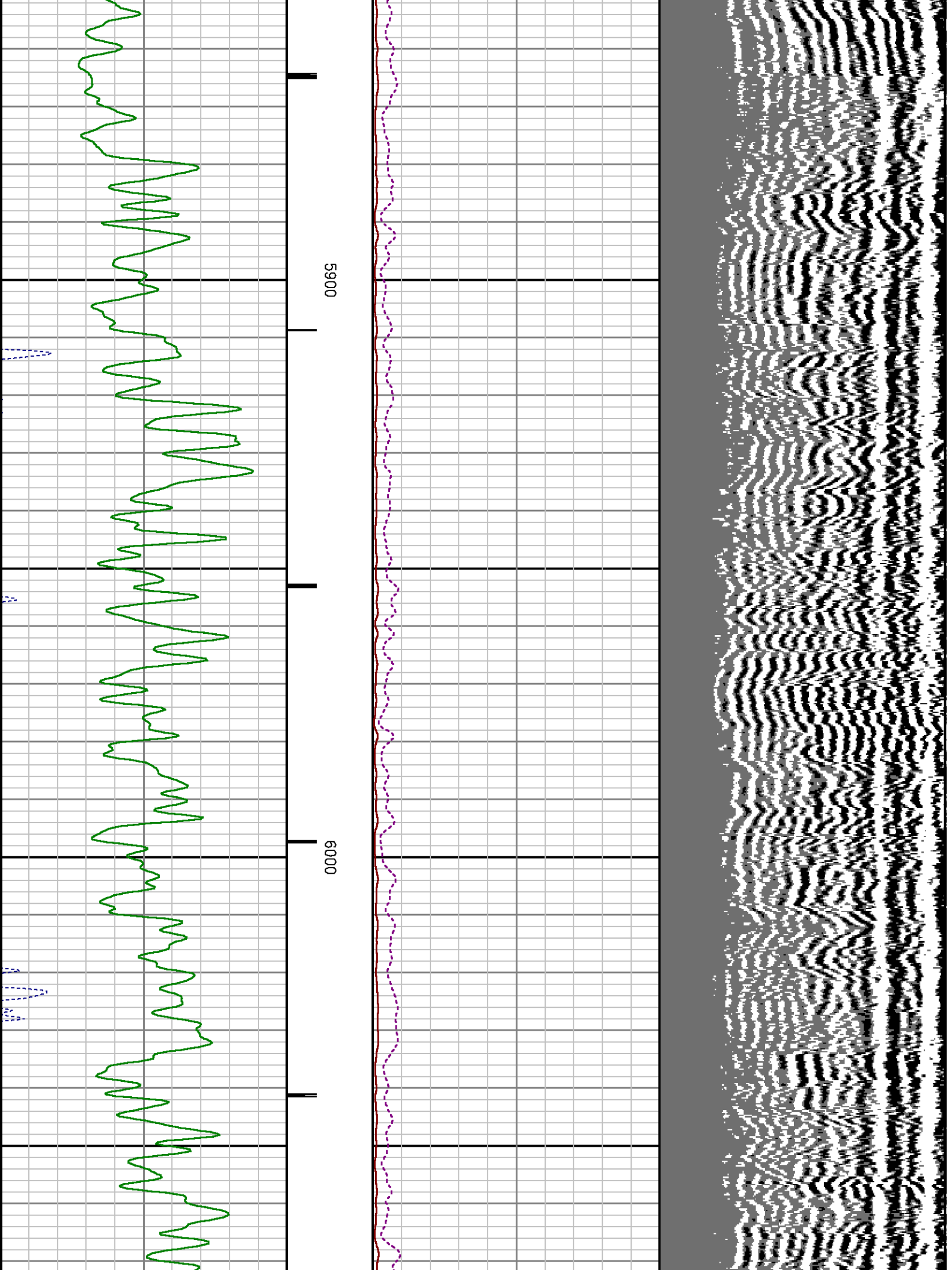


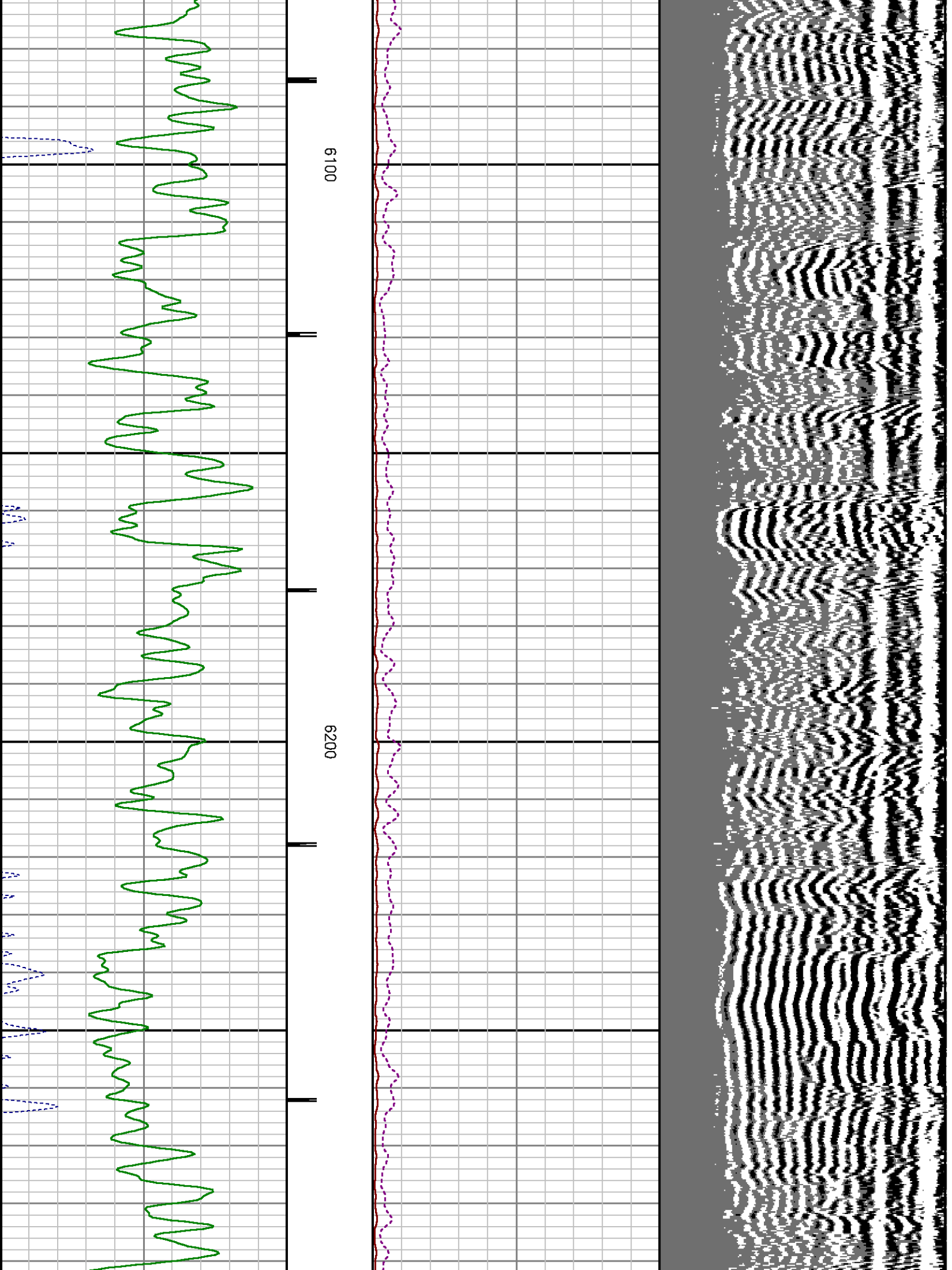


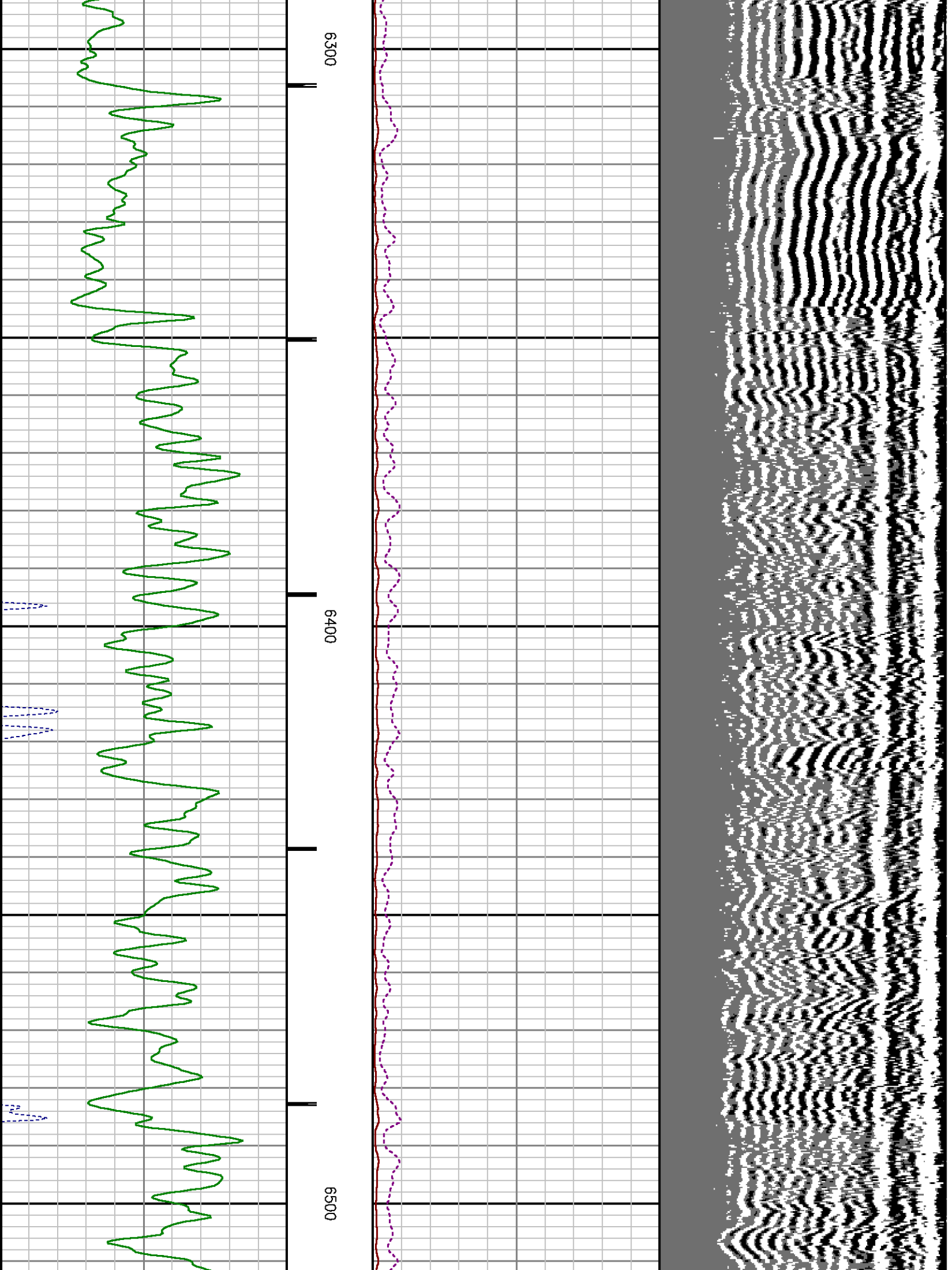


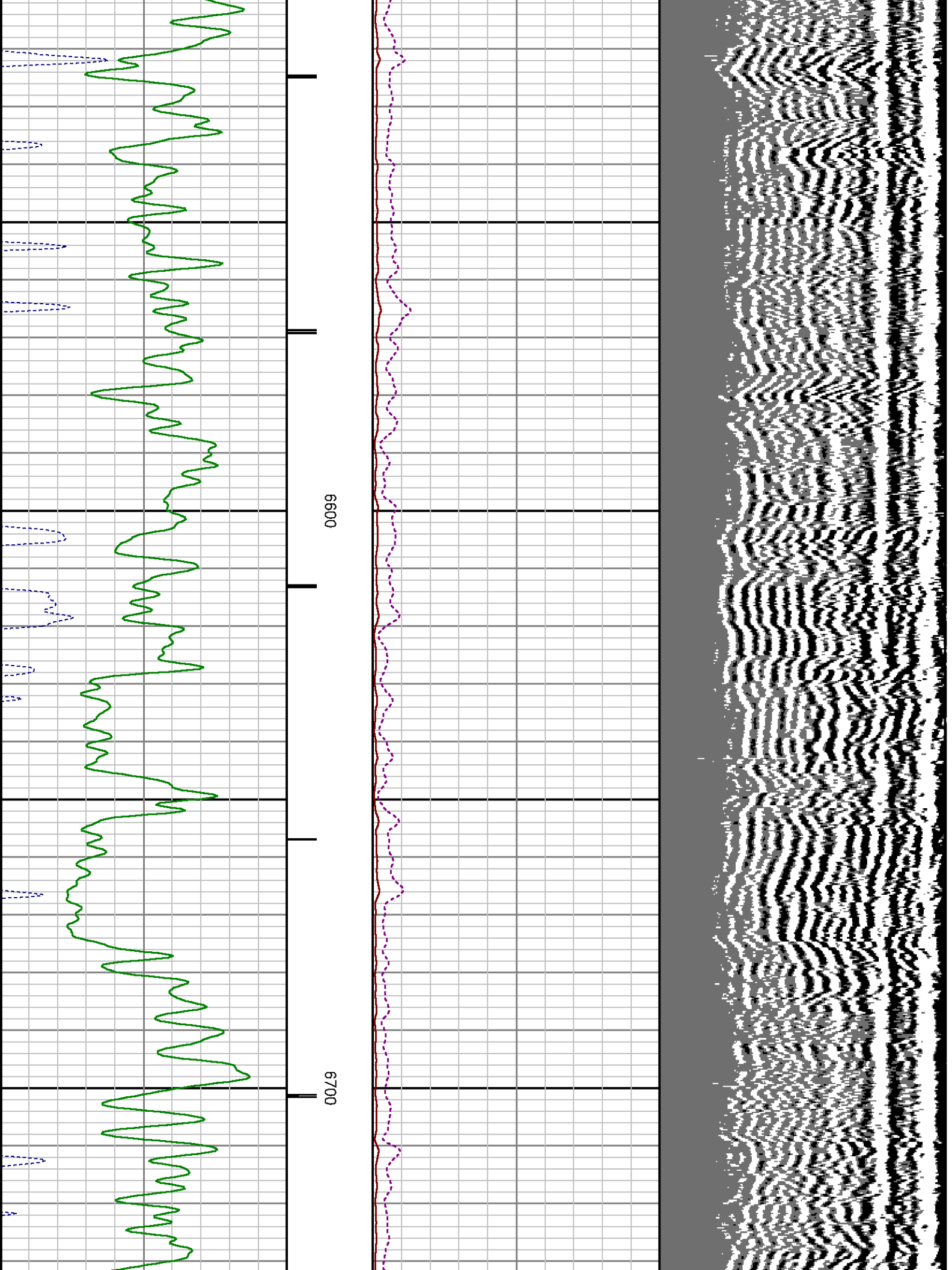


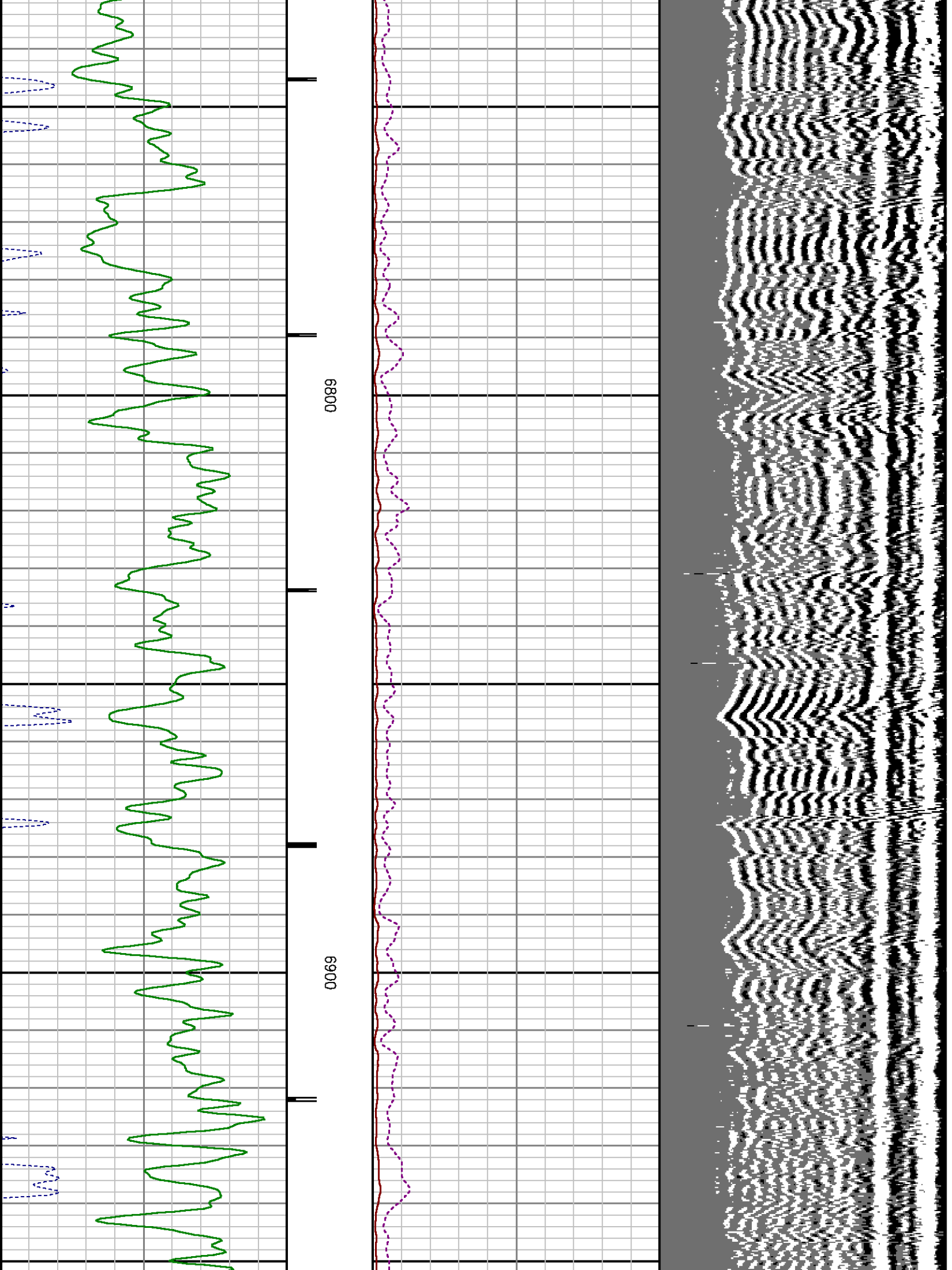


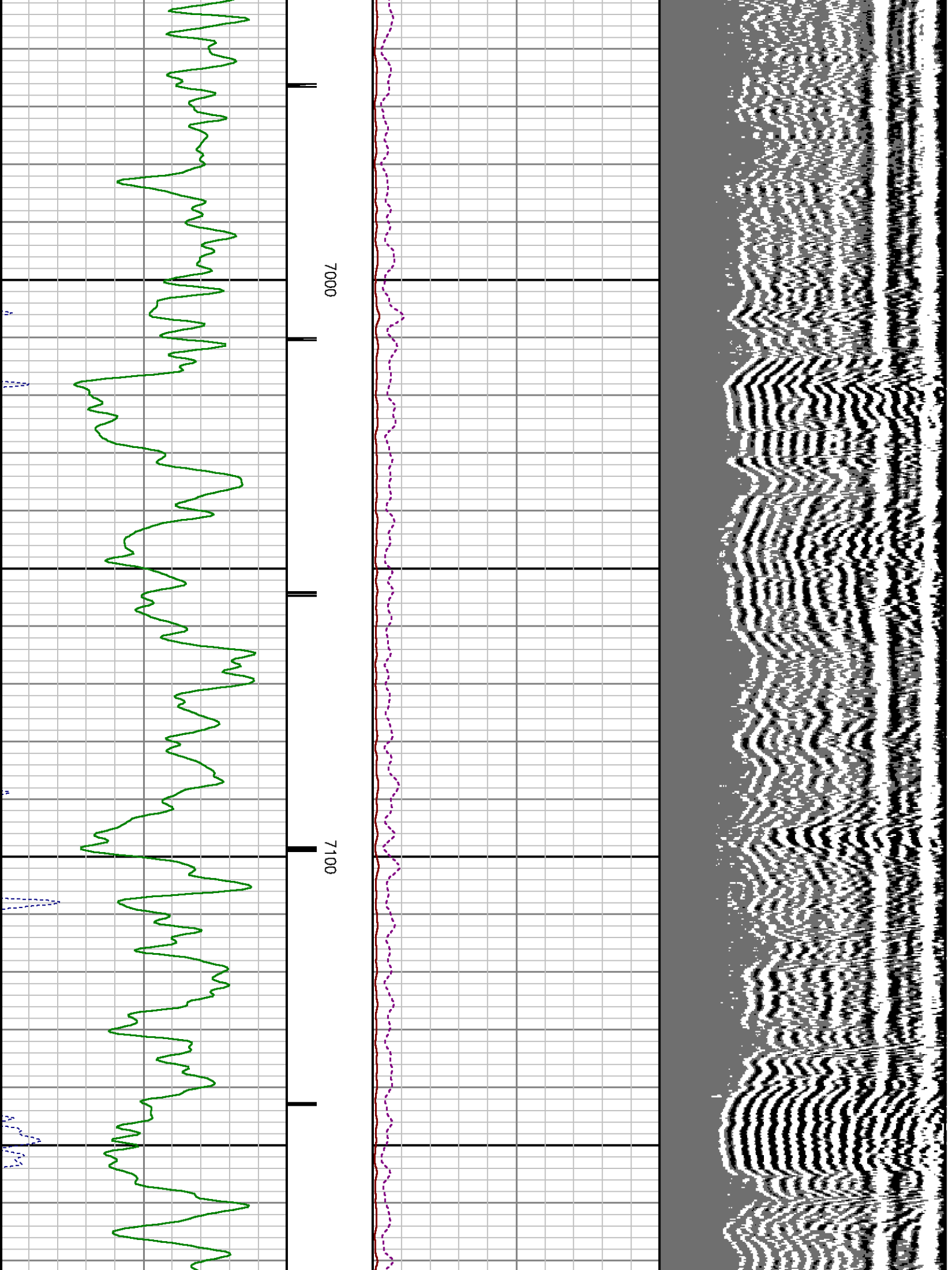


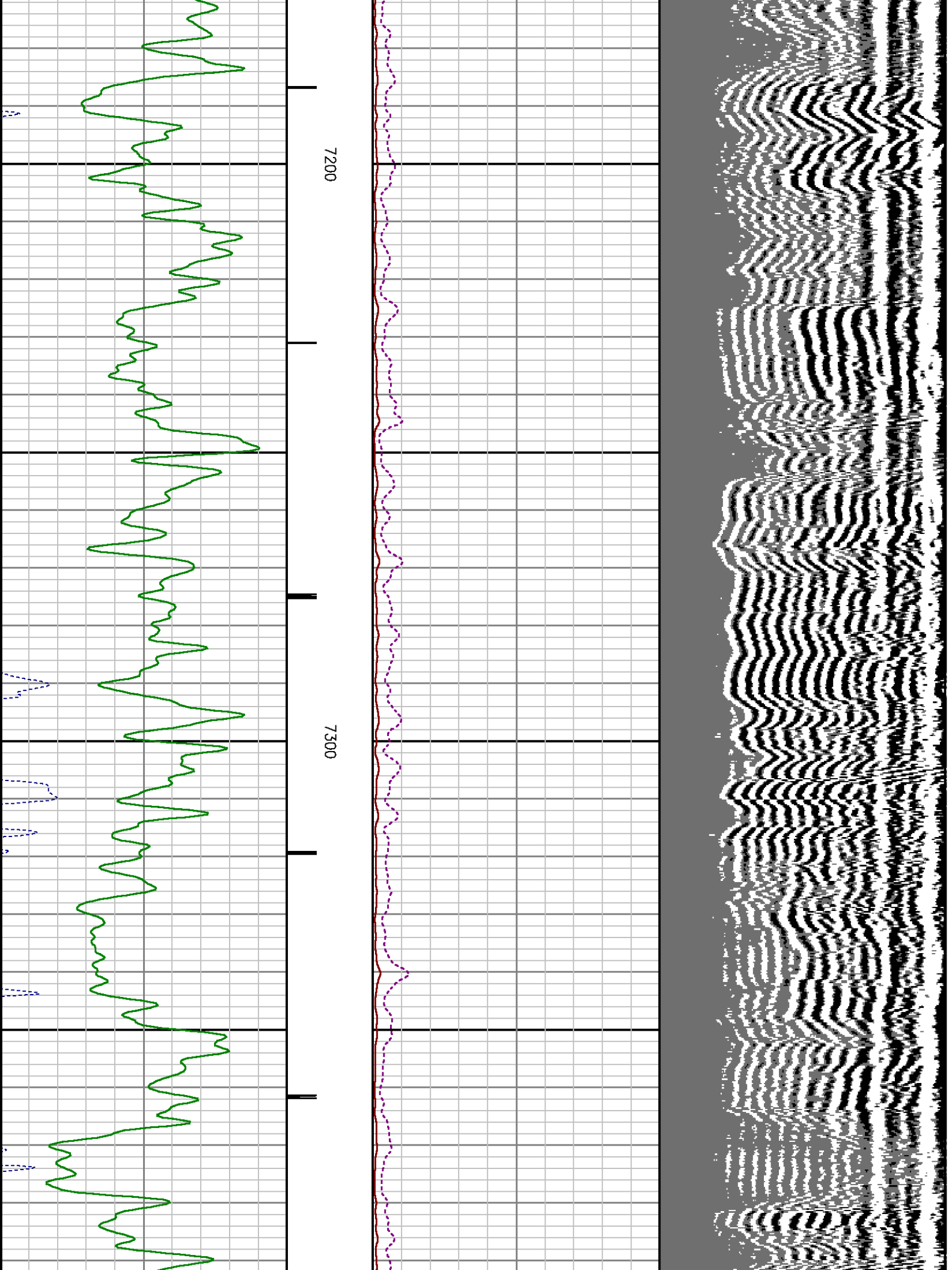


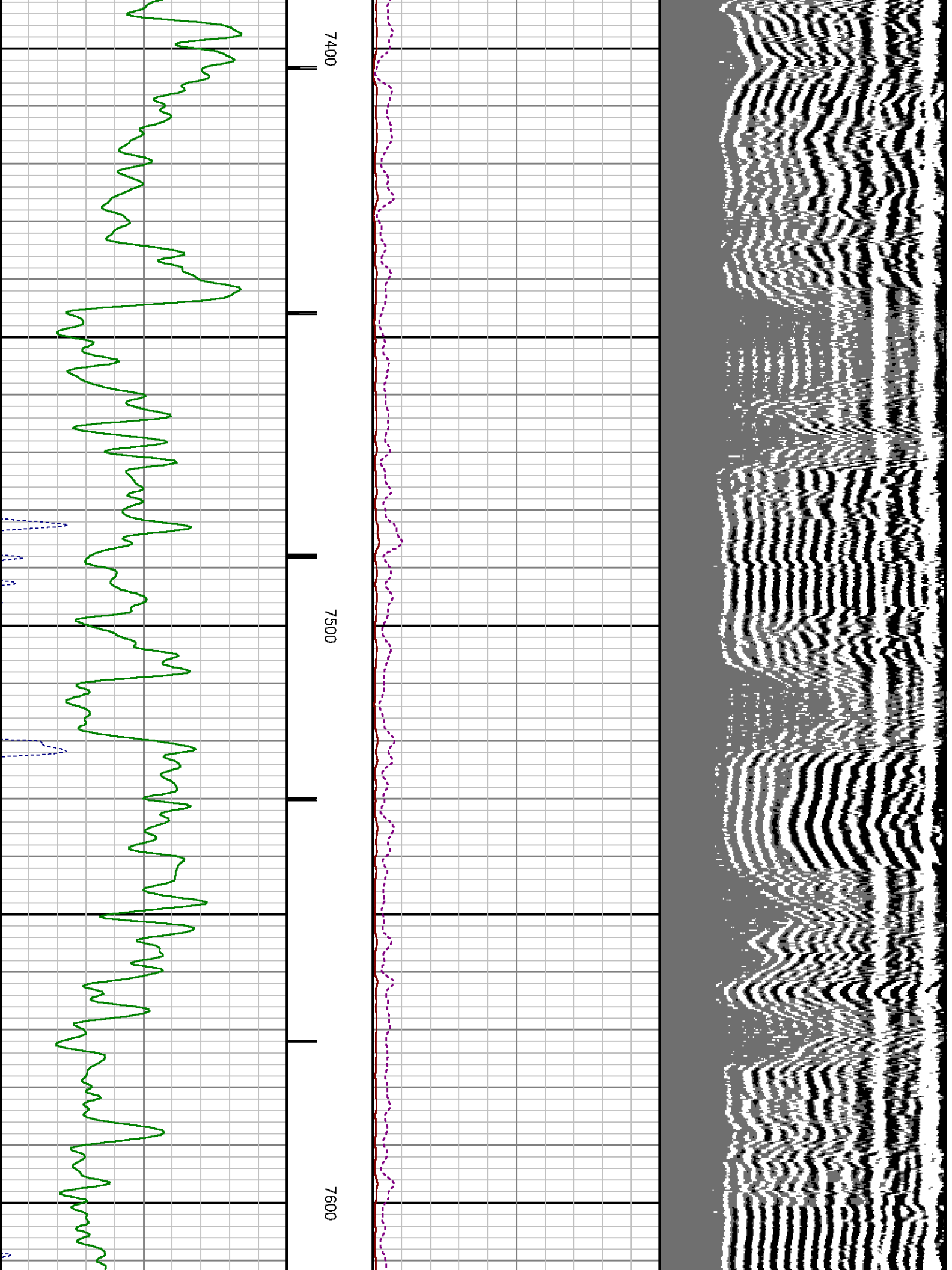


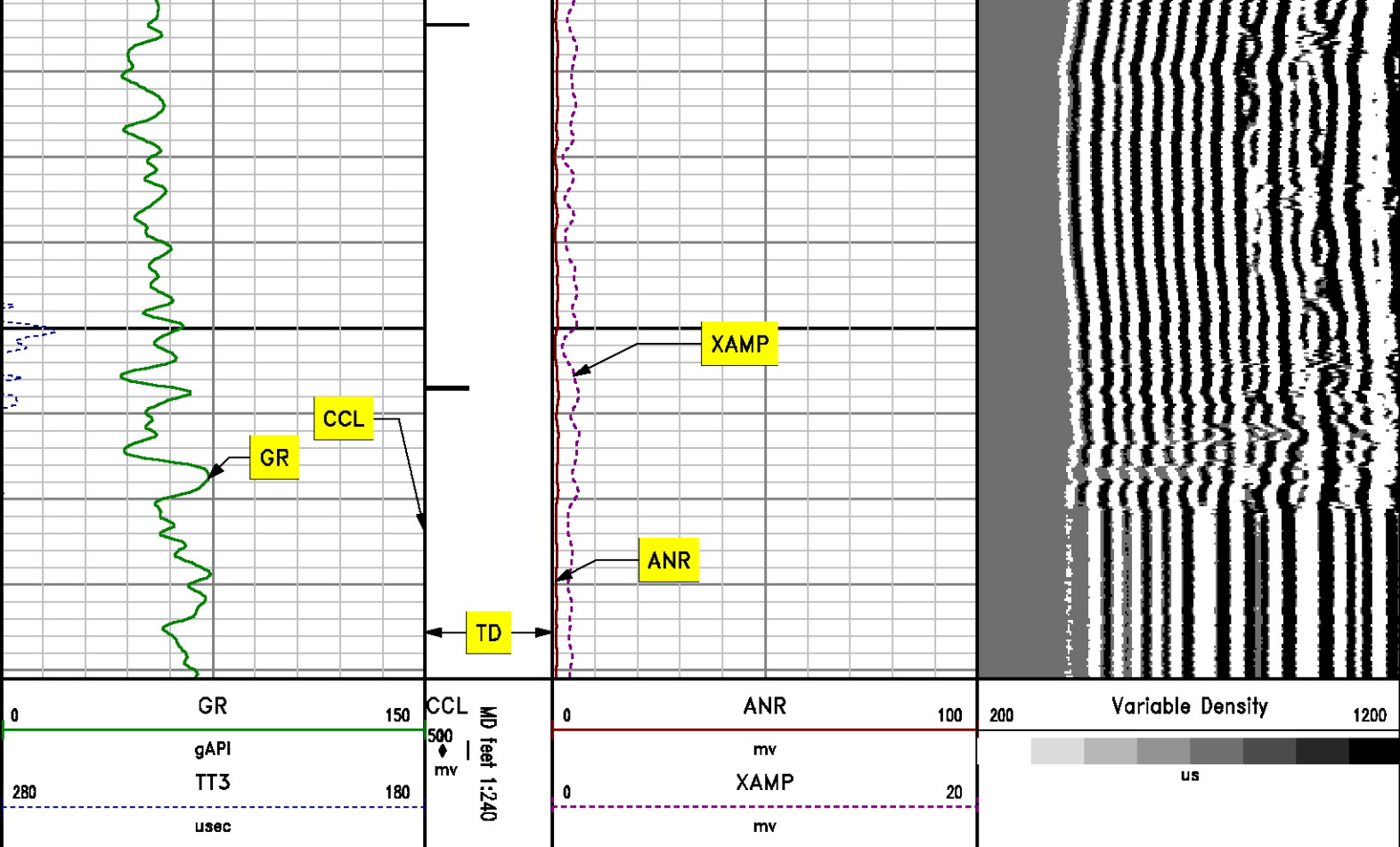












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
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RAL	Amp Gate Start Near	195.000	u sec	23.781	7732.000
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(for Acquired Curves)

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		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

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Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

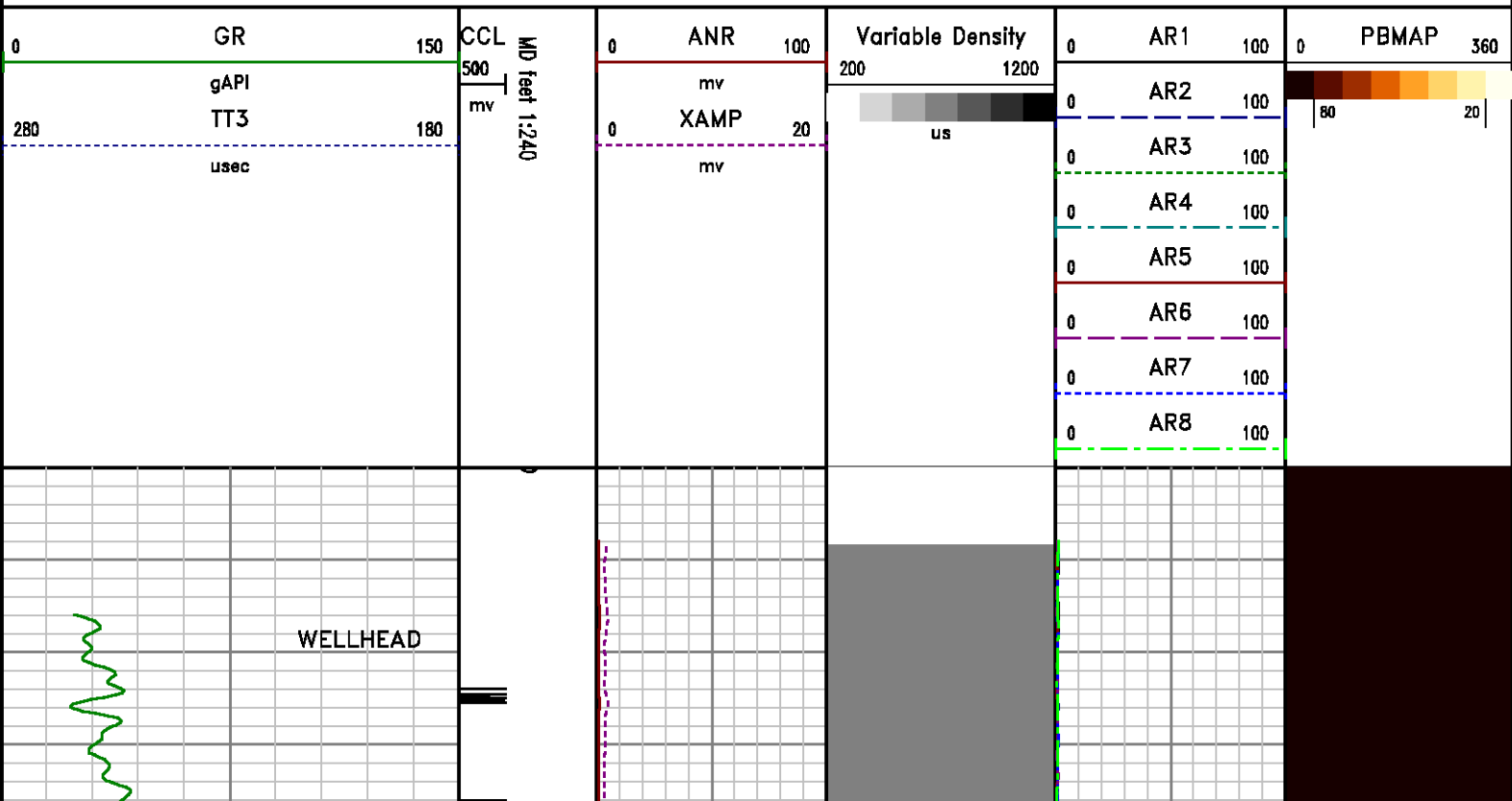
Well : FEDERAL PA 323-29

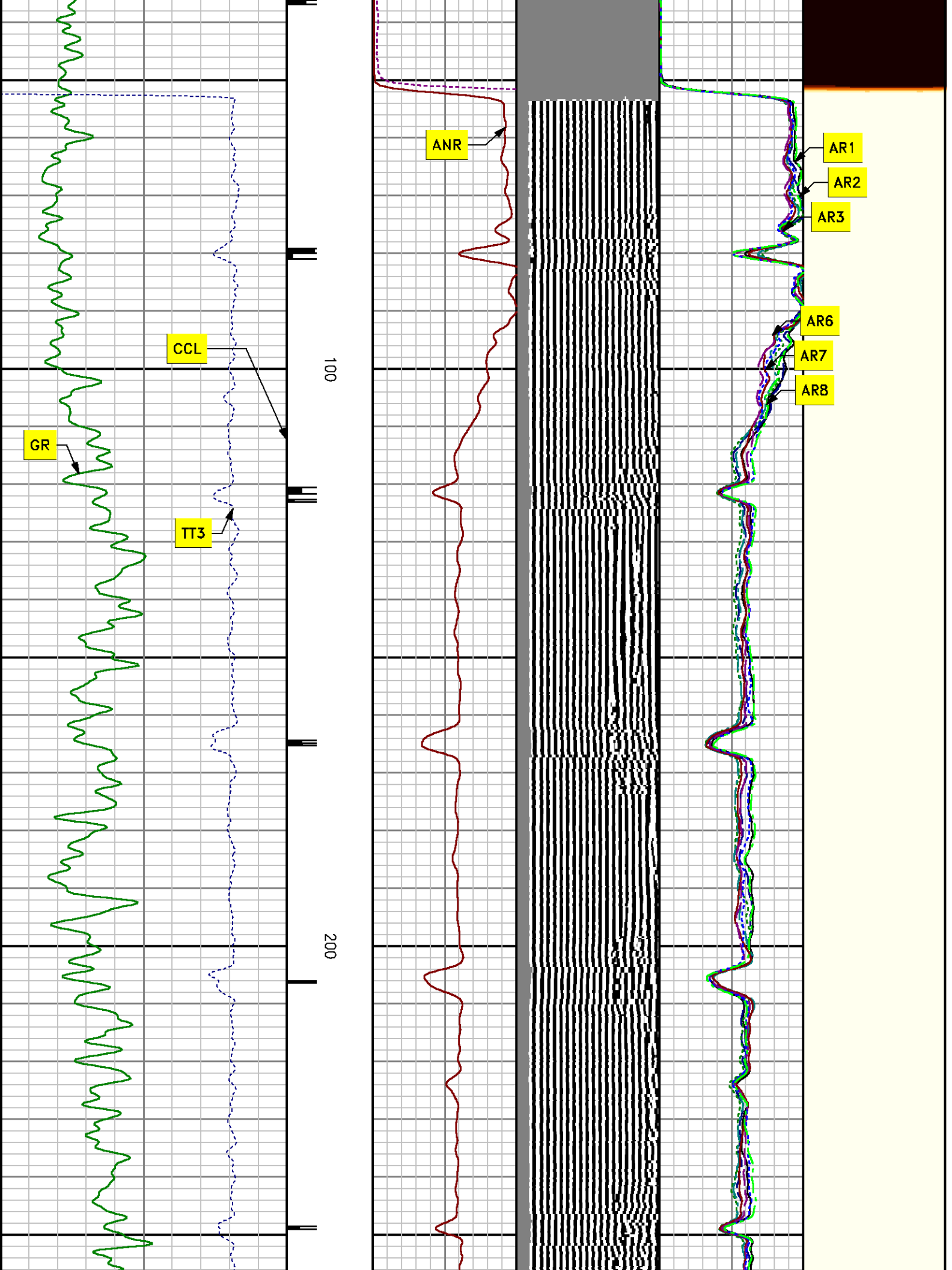
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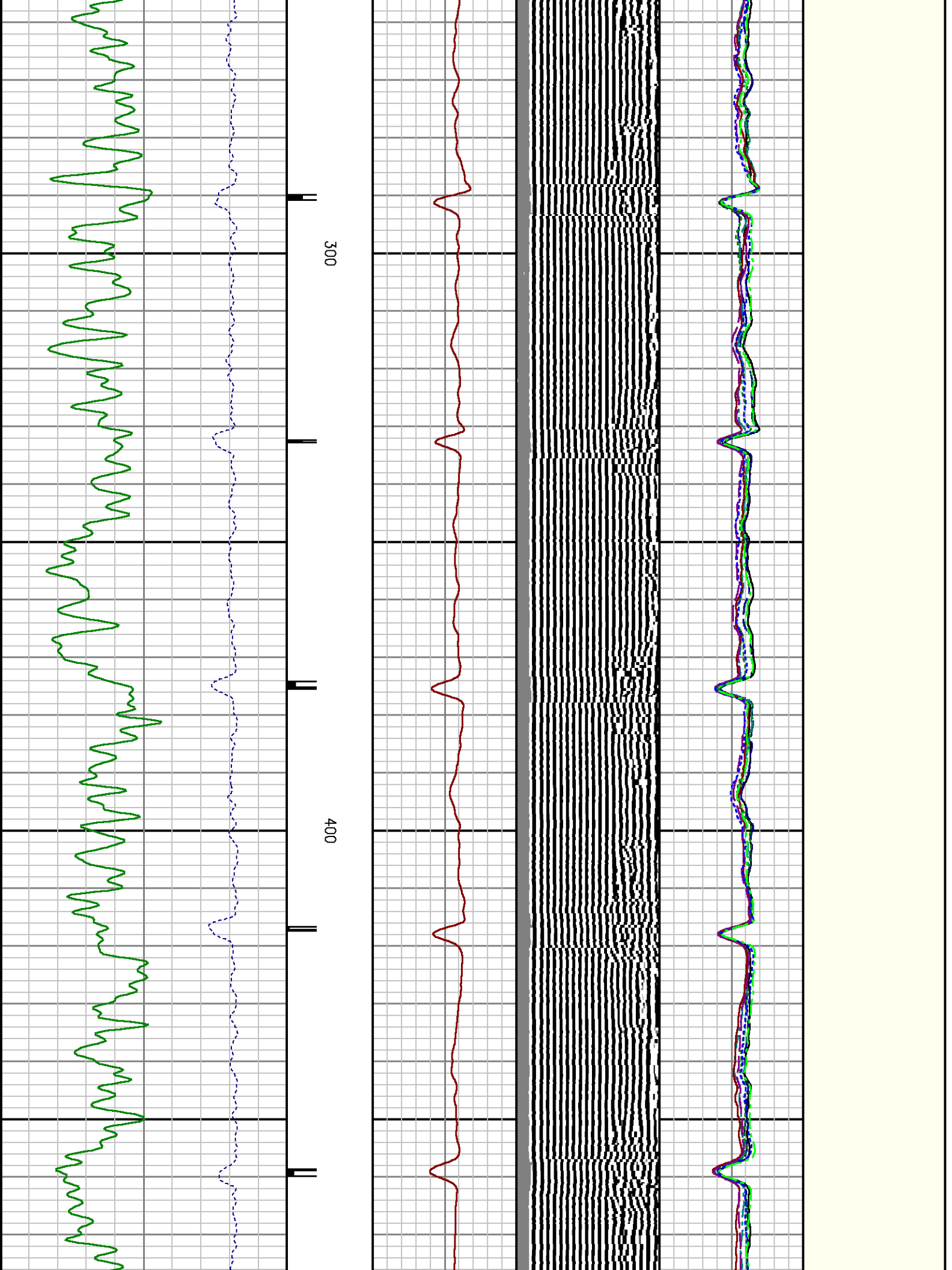
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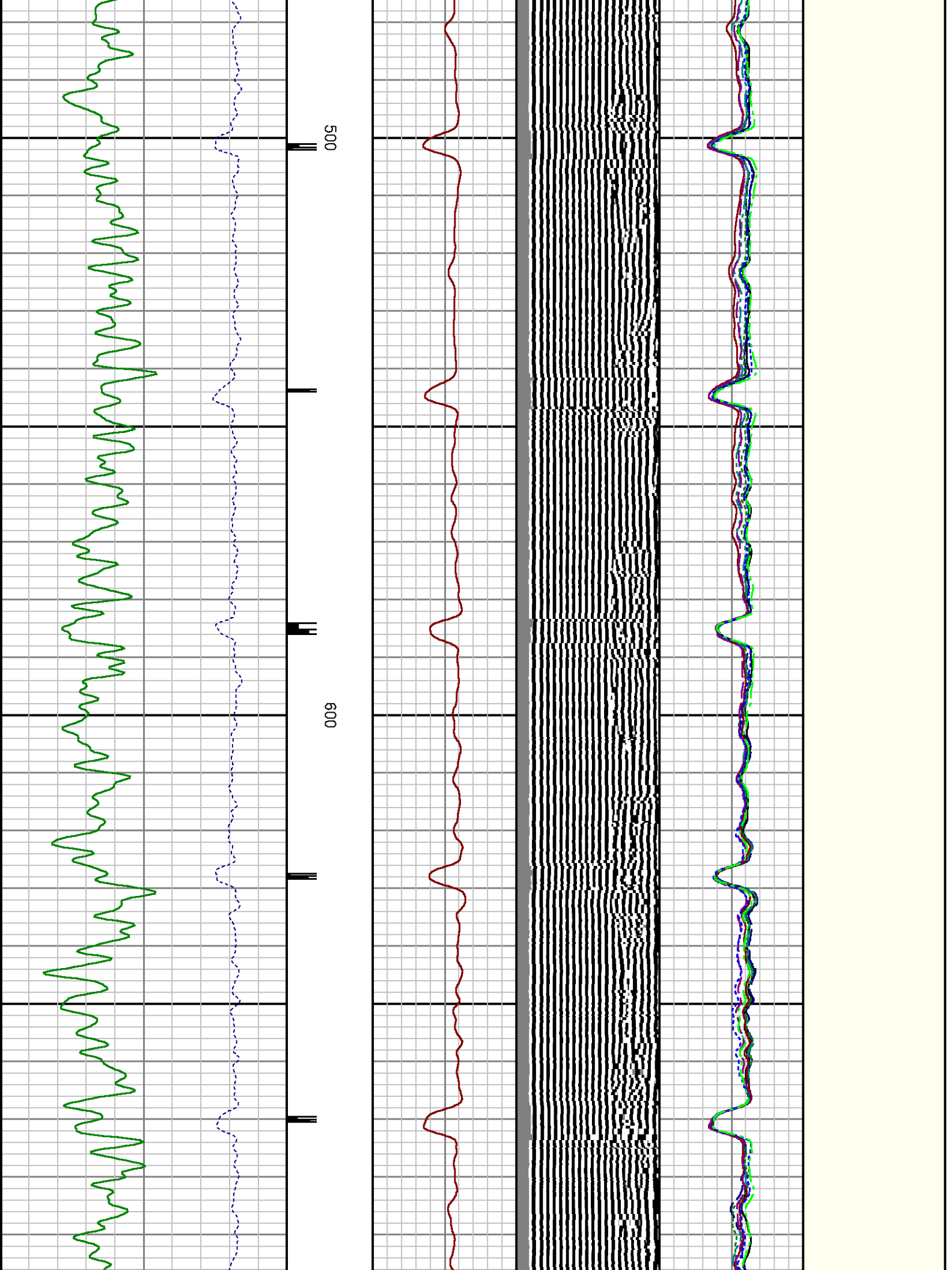
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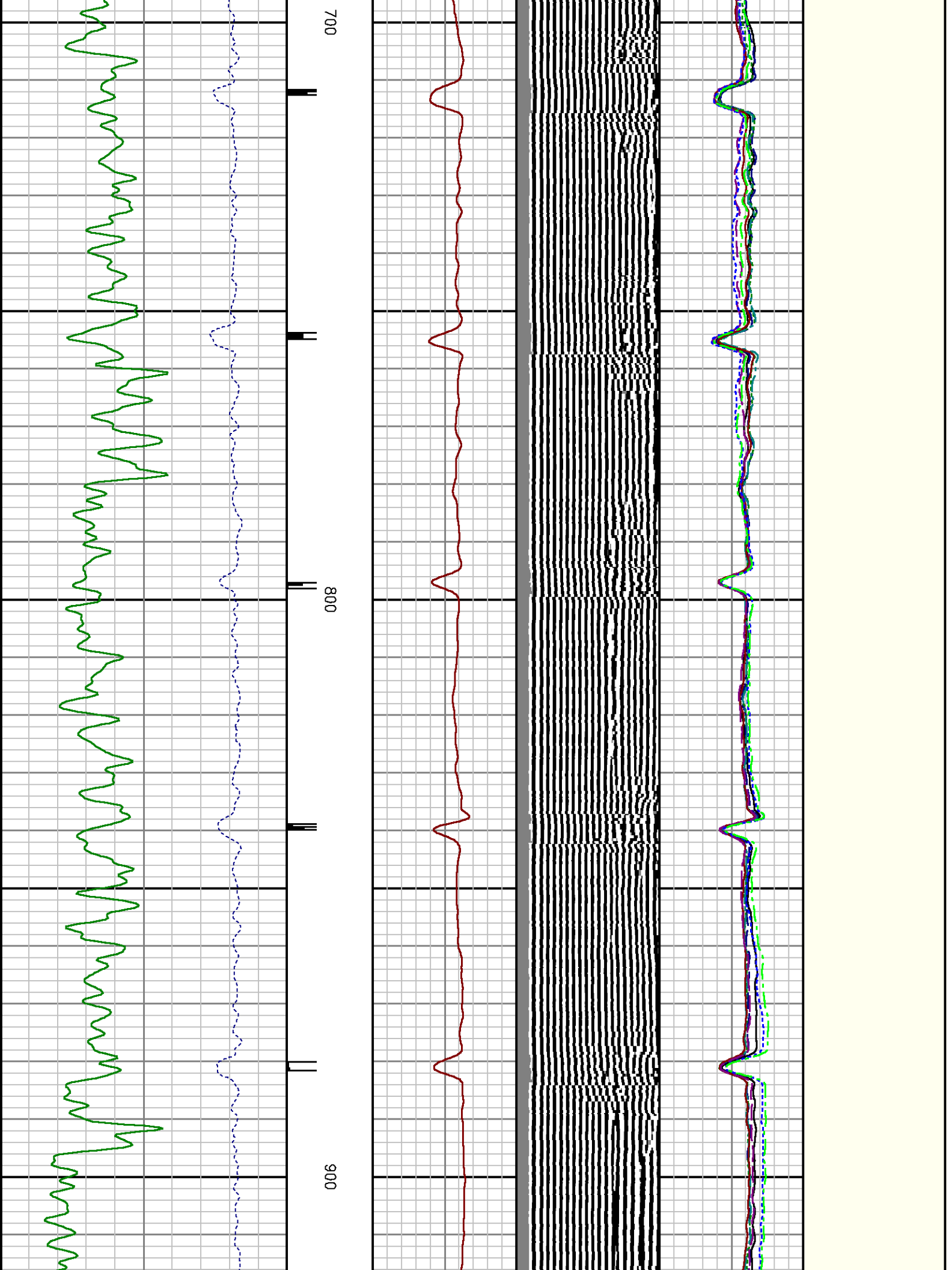
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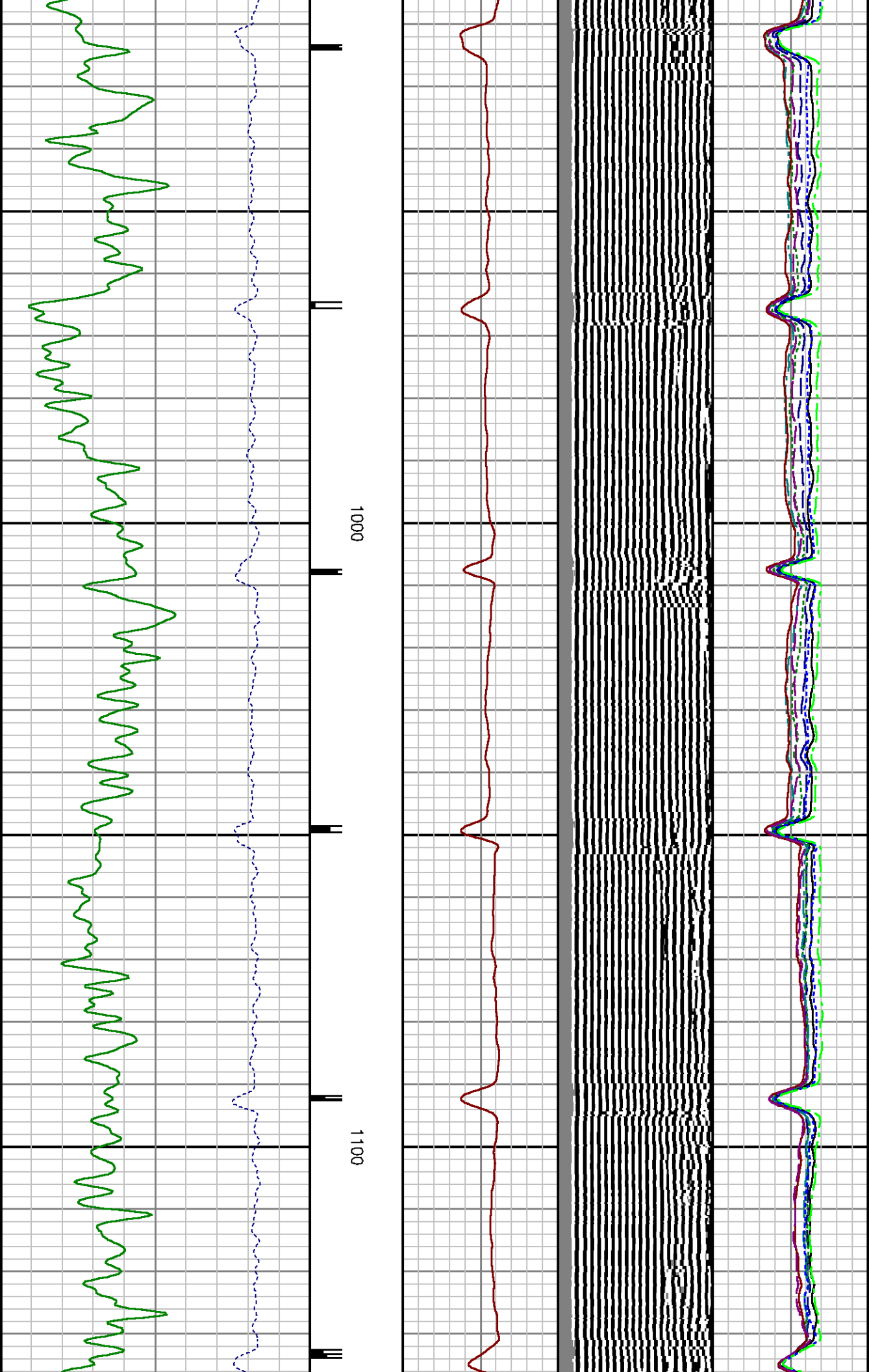


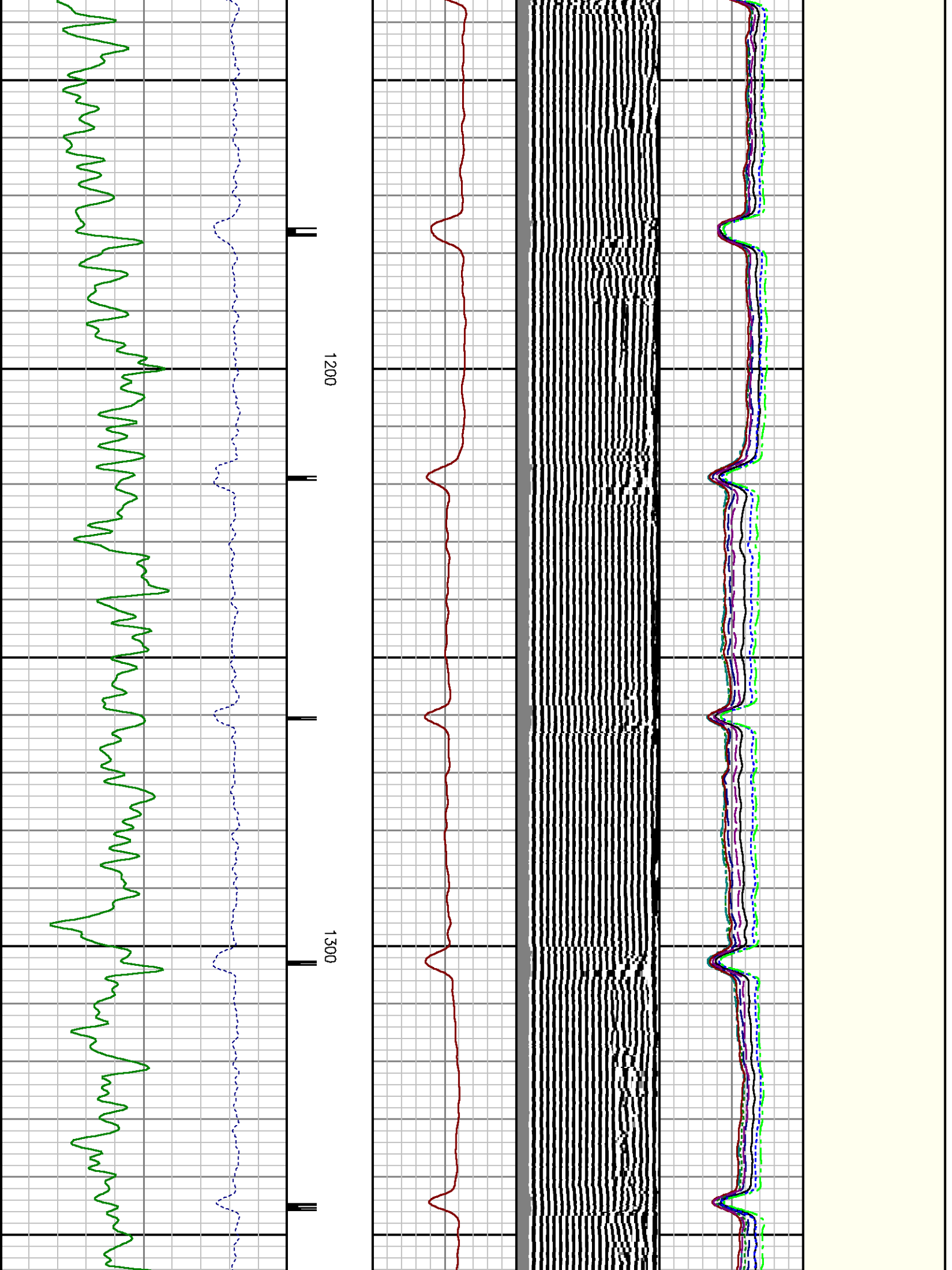


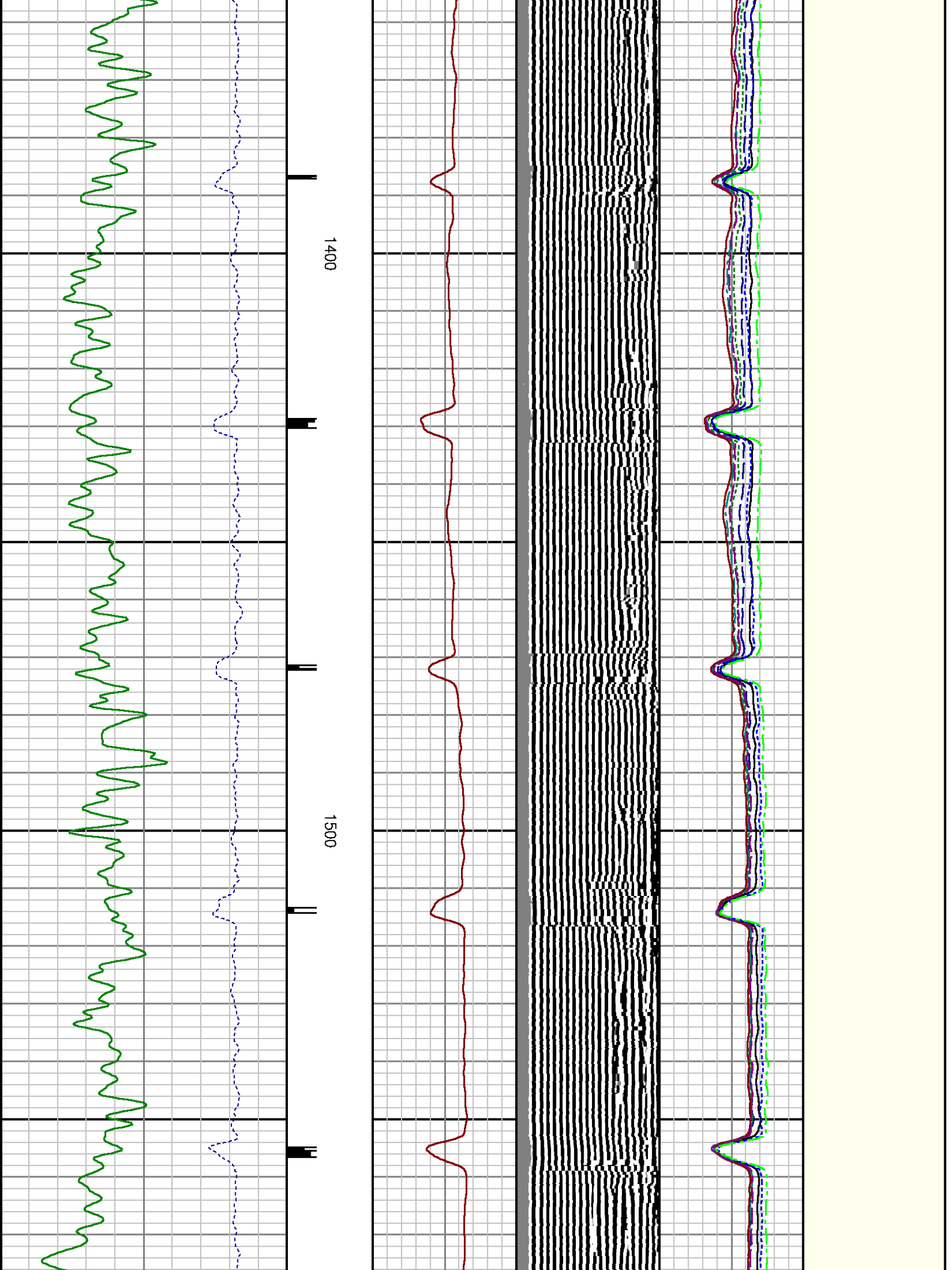


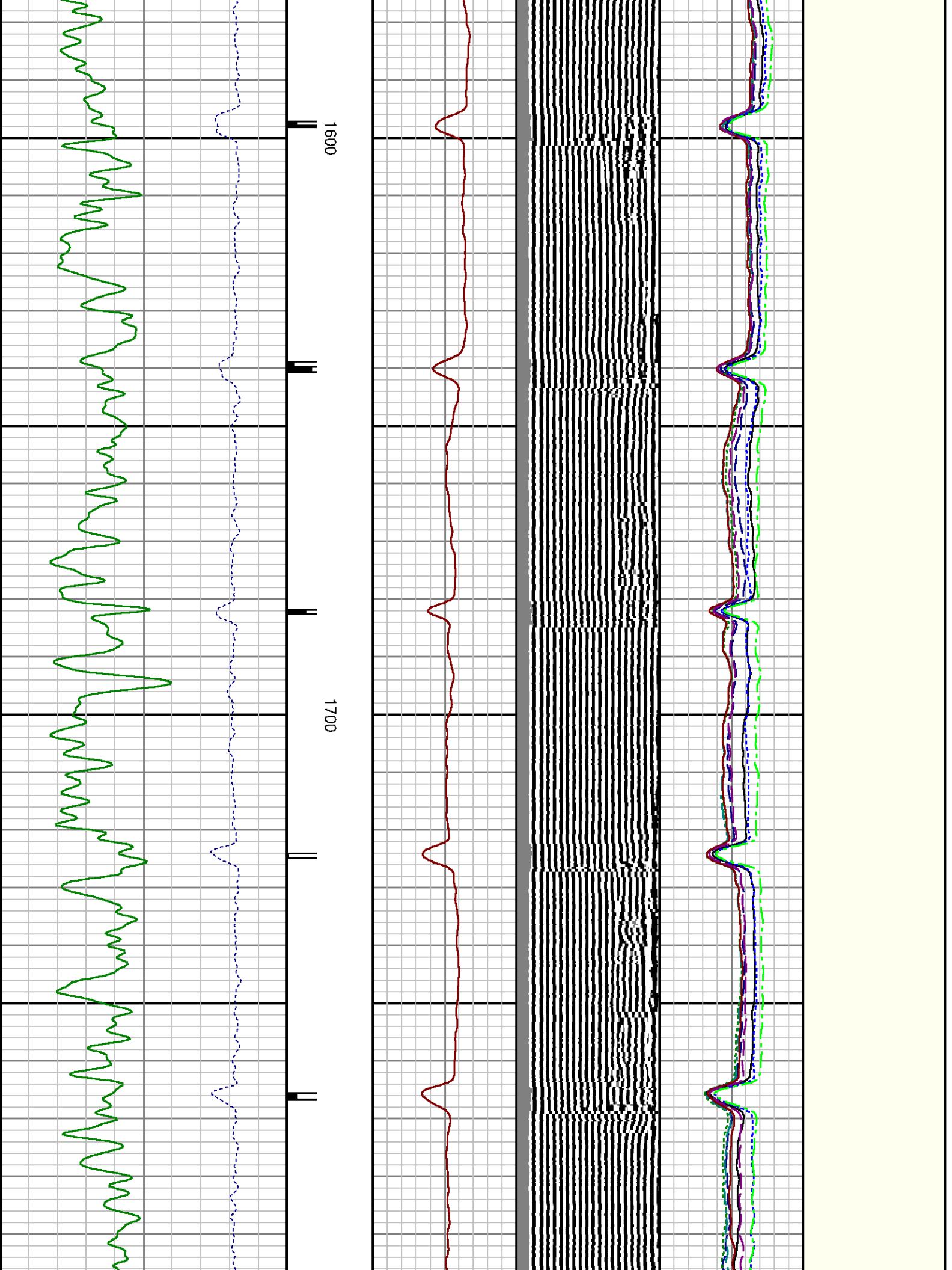


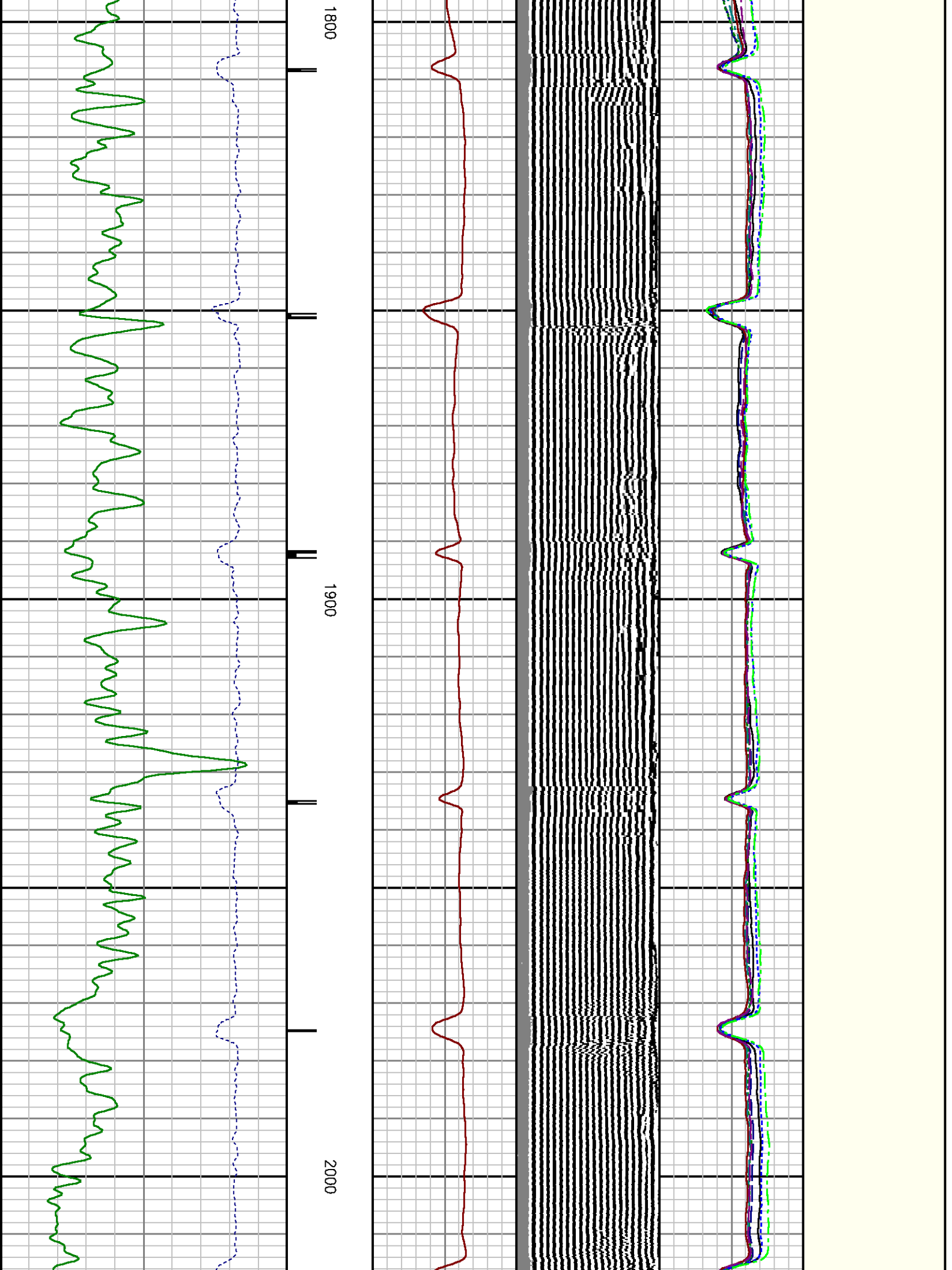


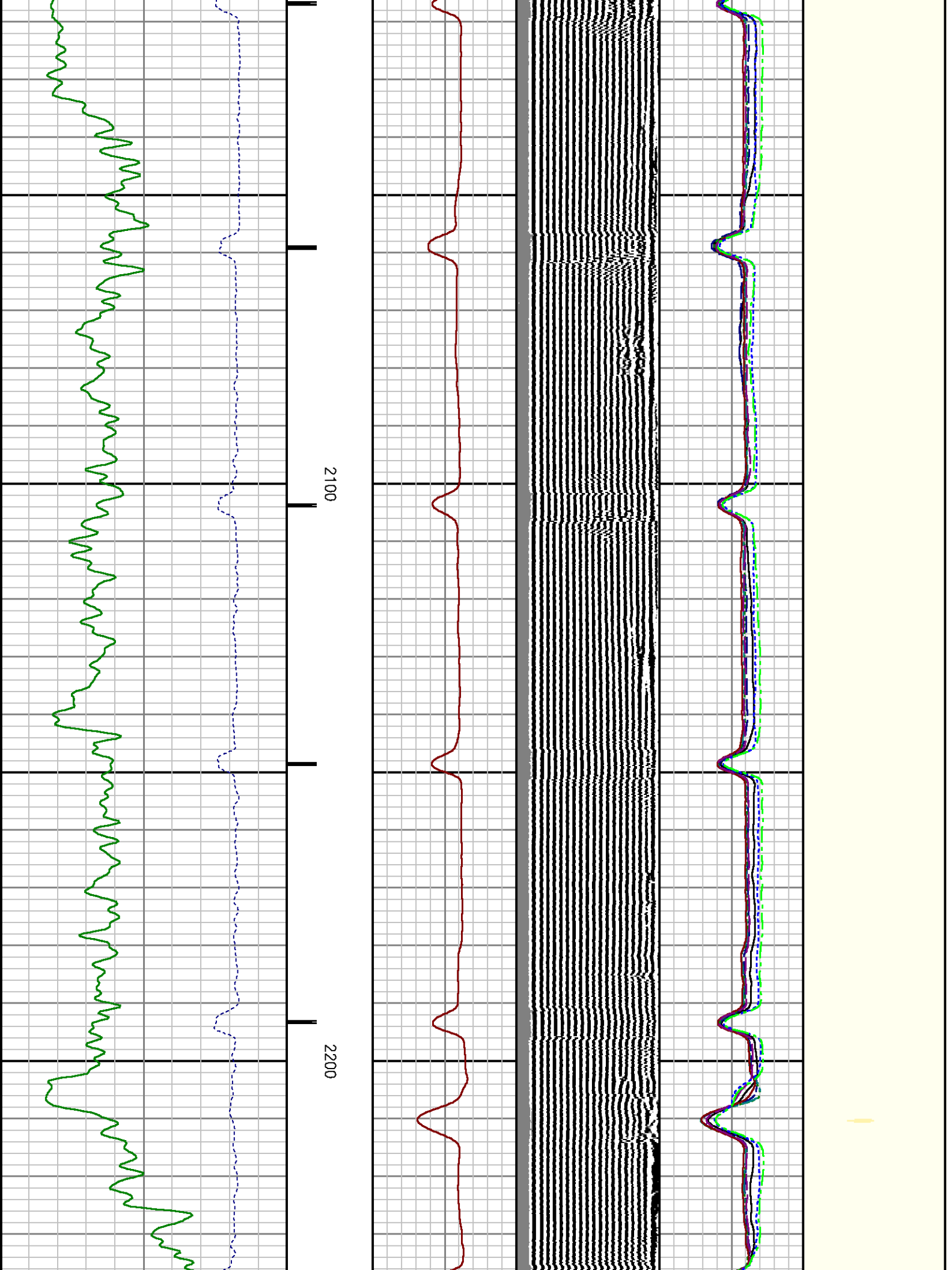


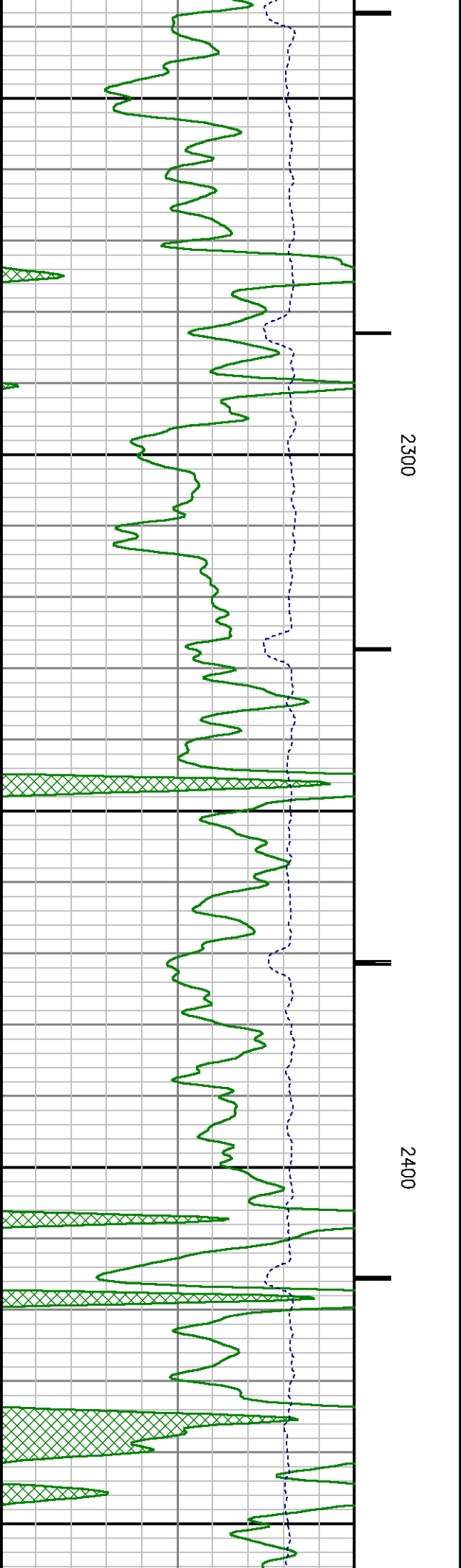
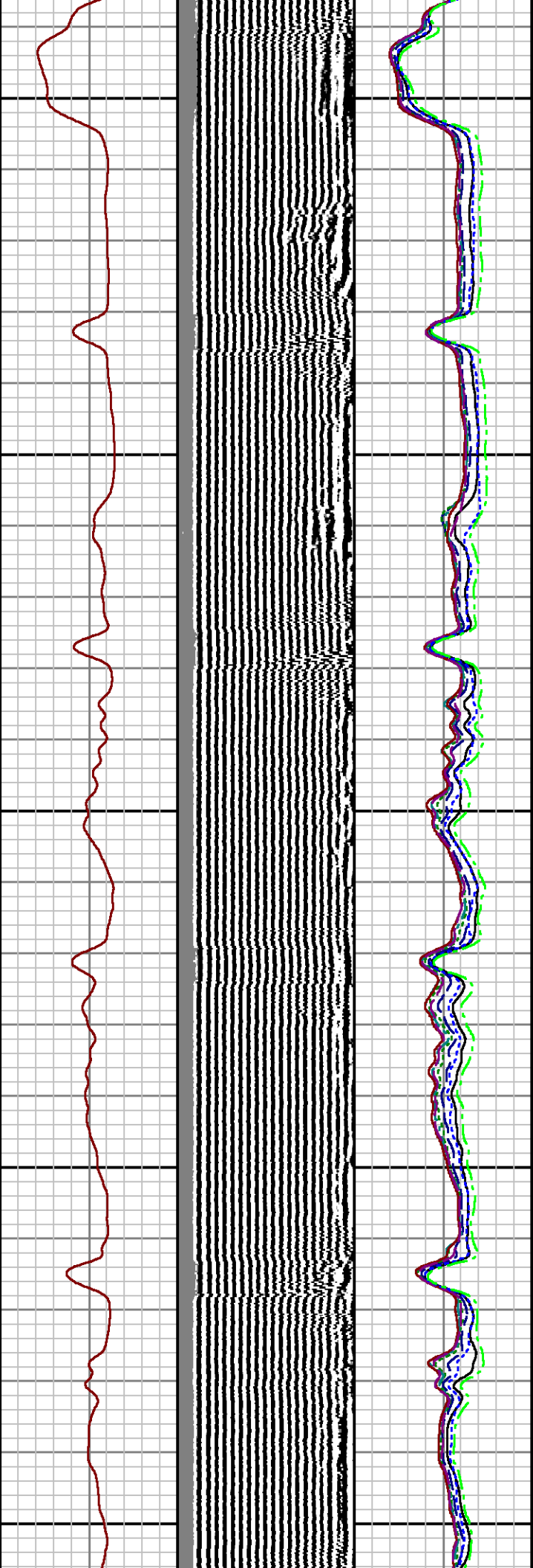
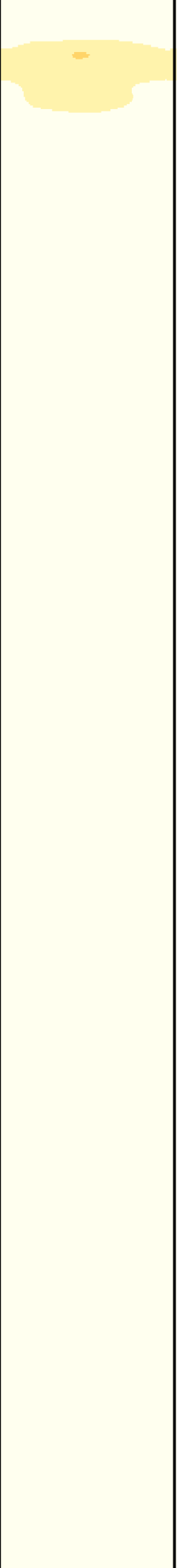


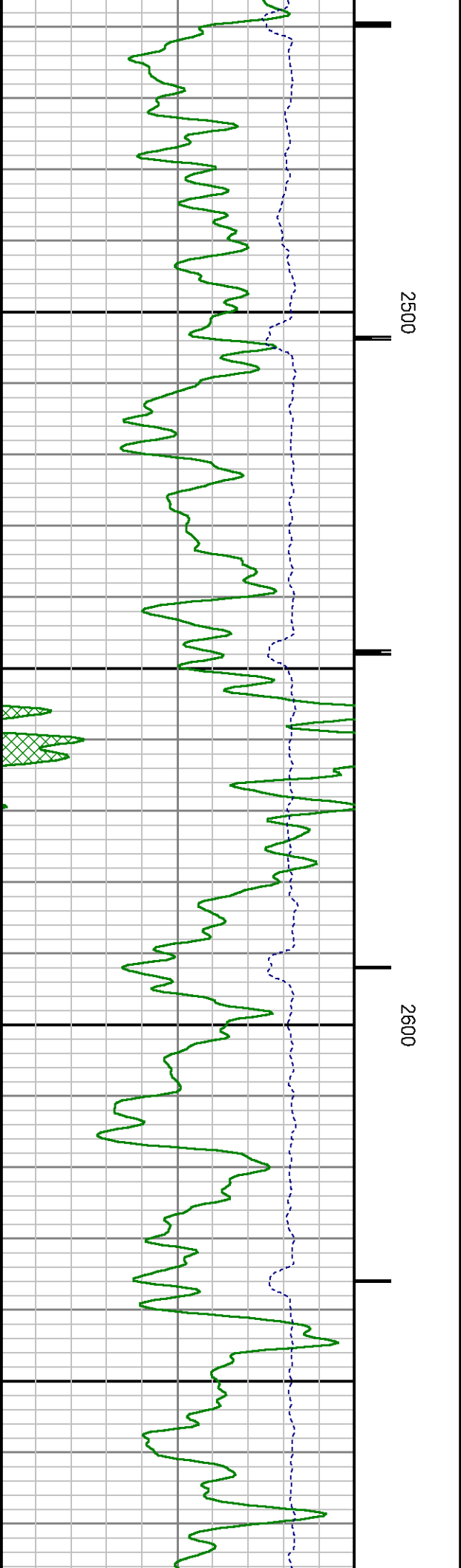
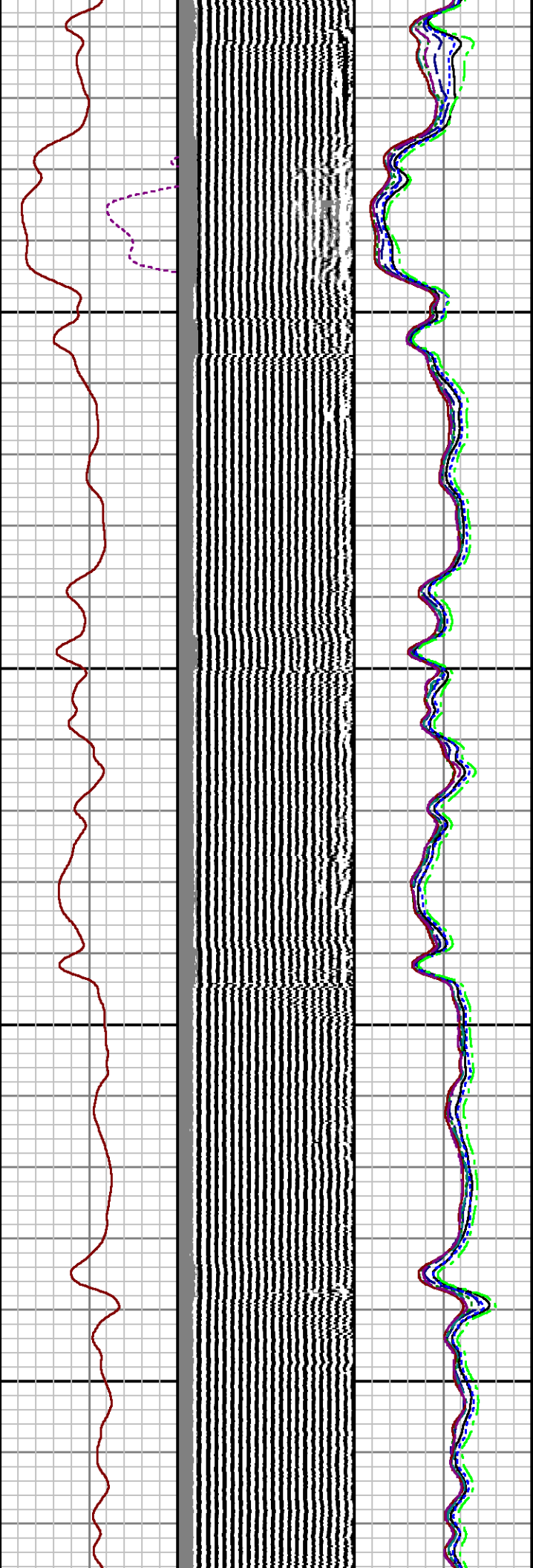


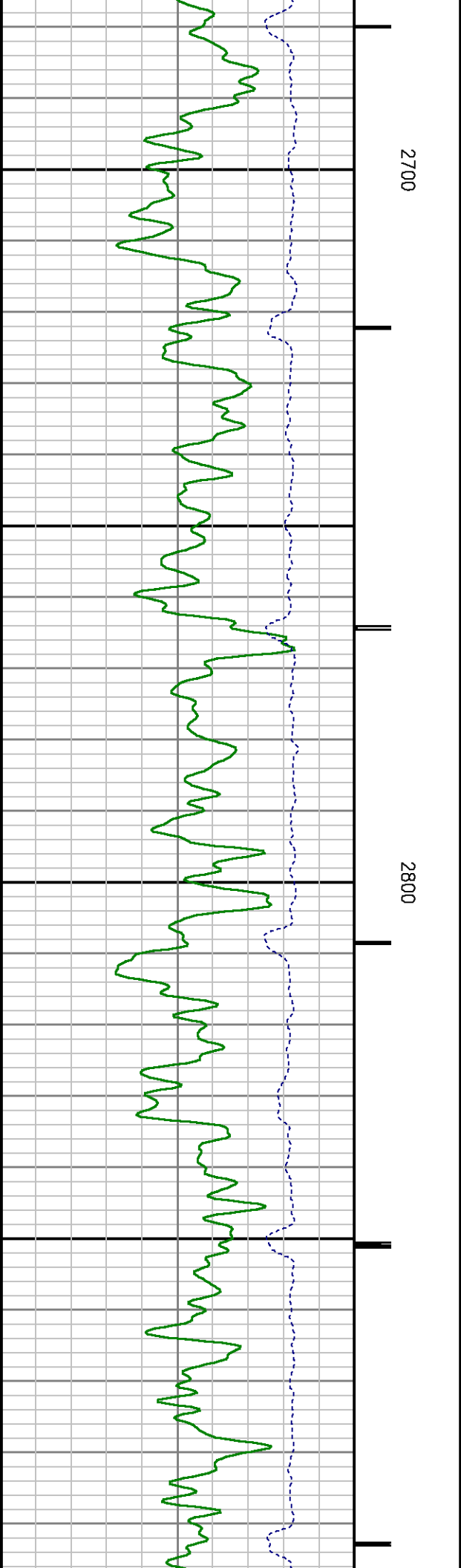
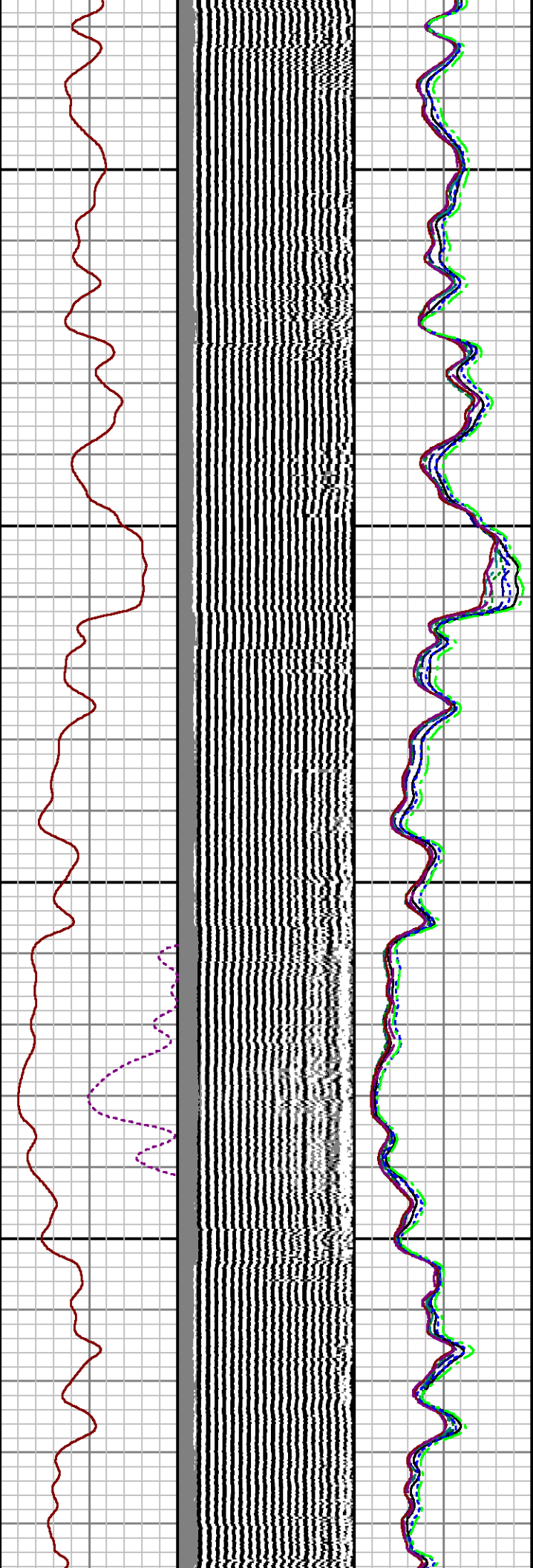
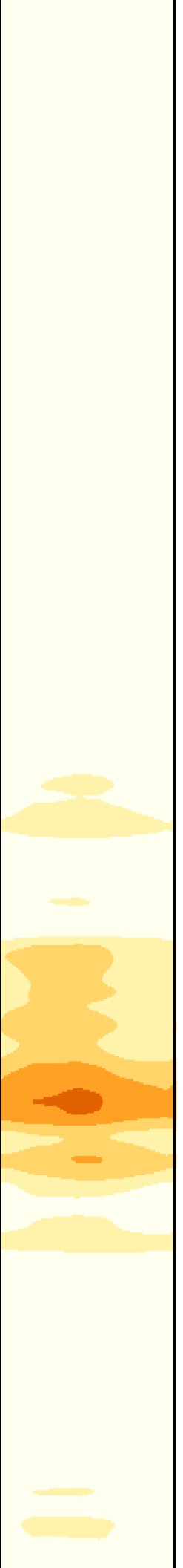


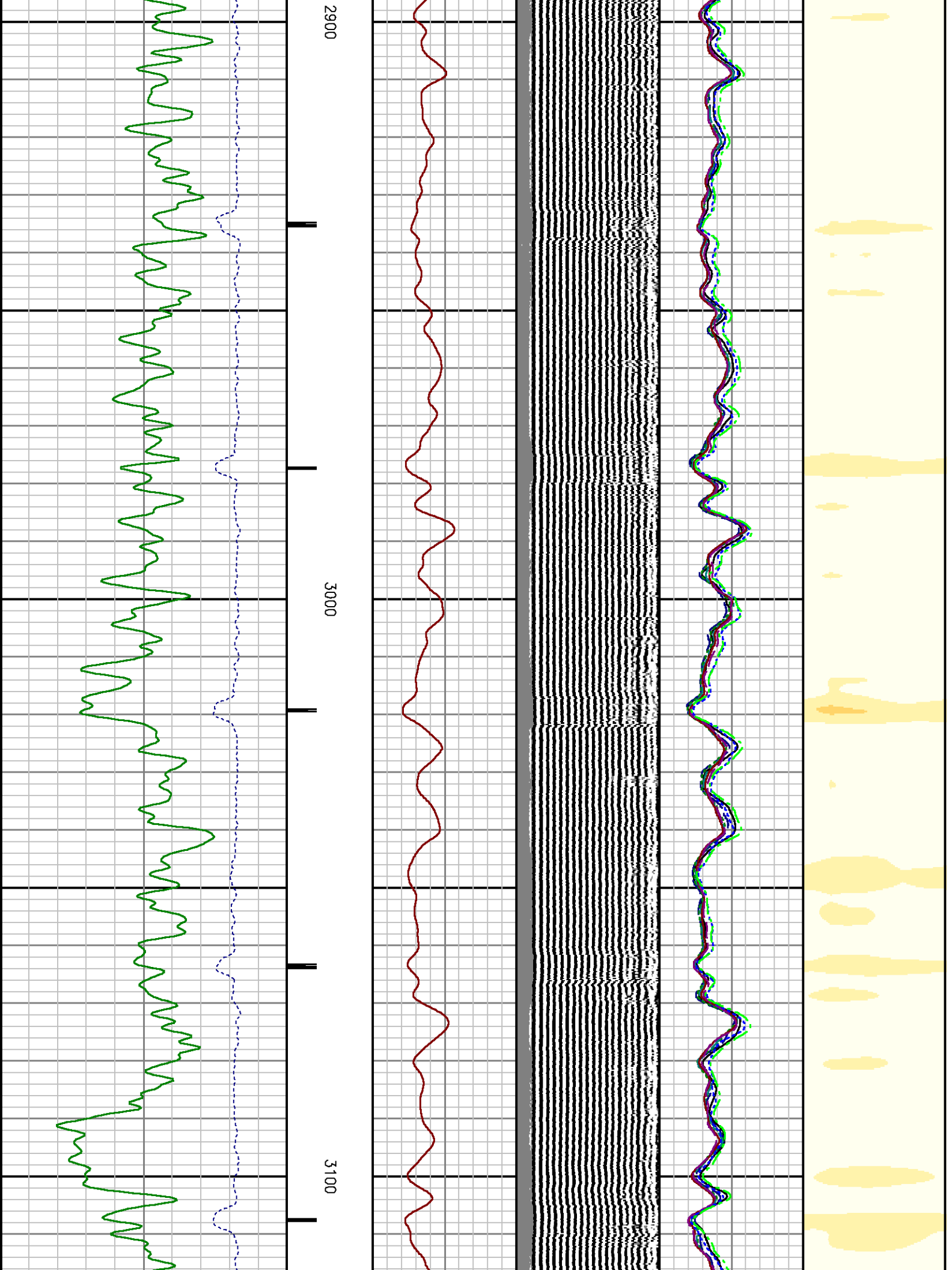


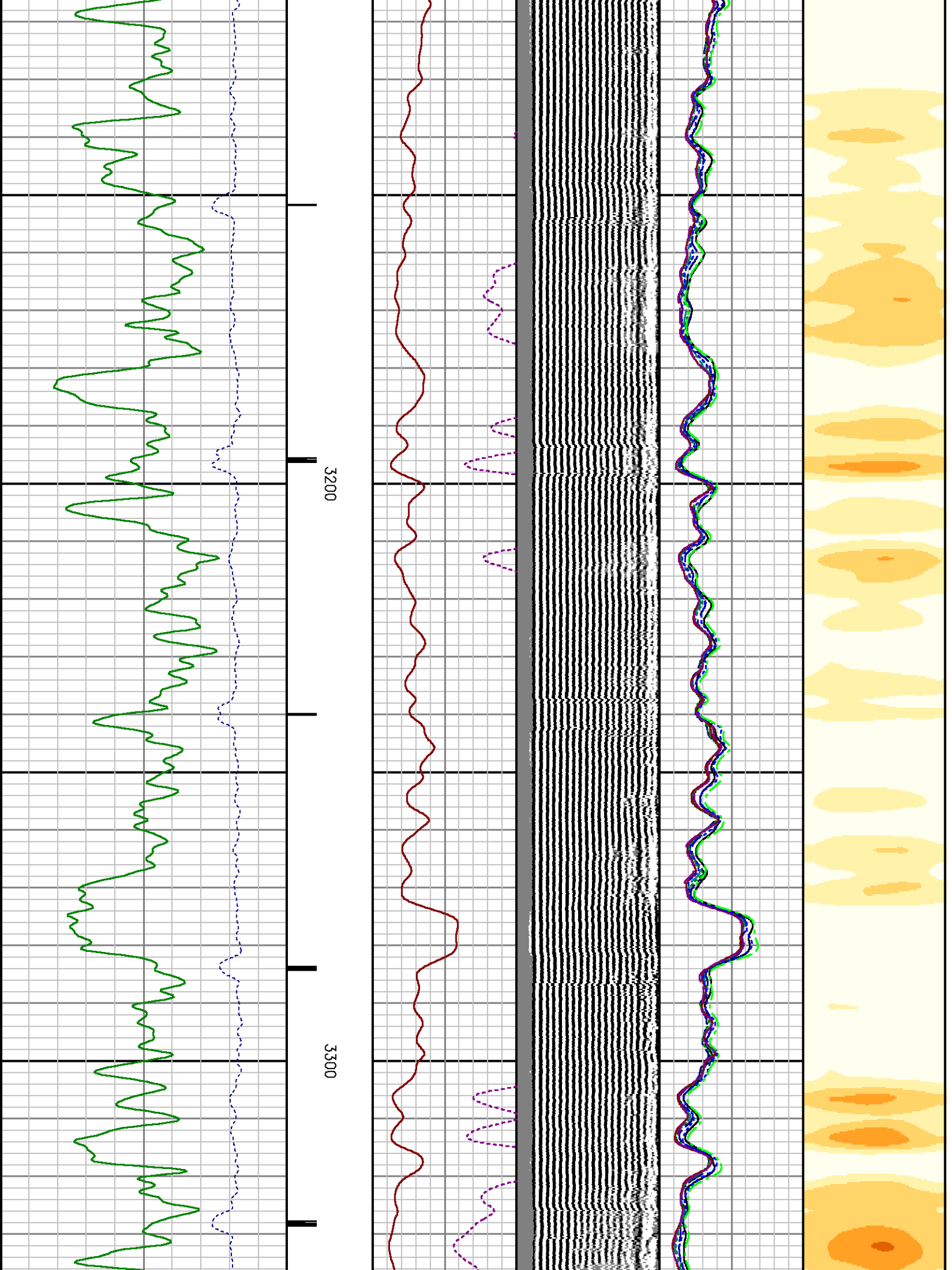


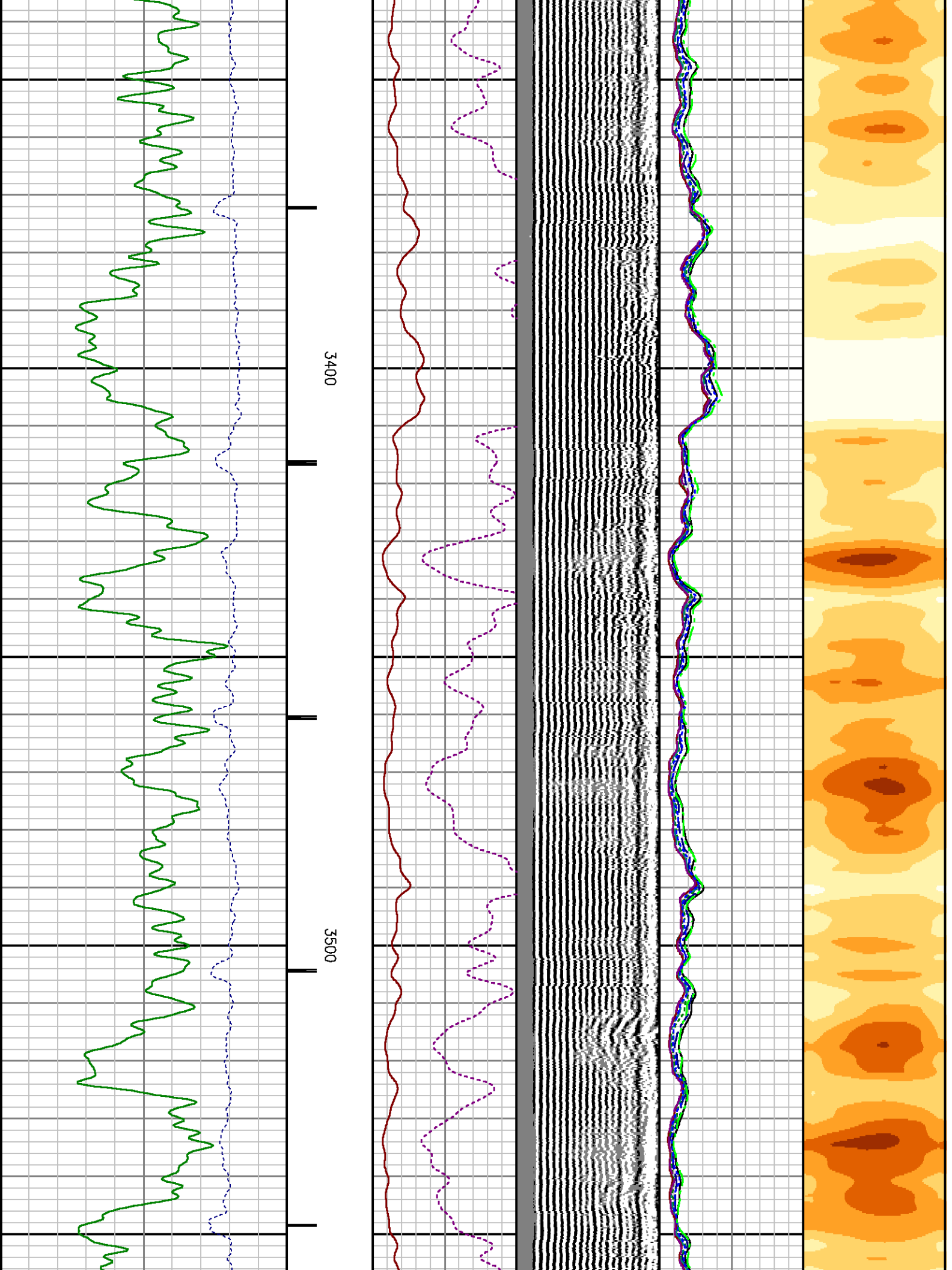


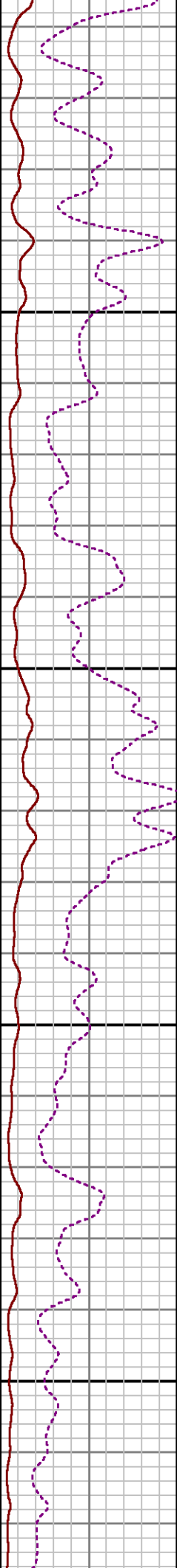
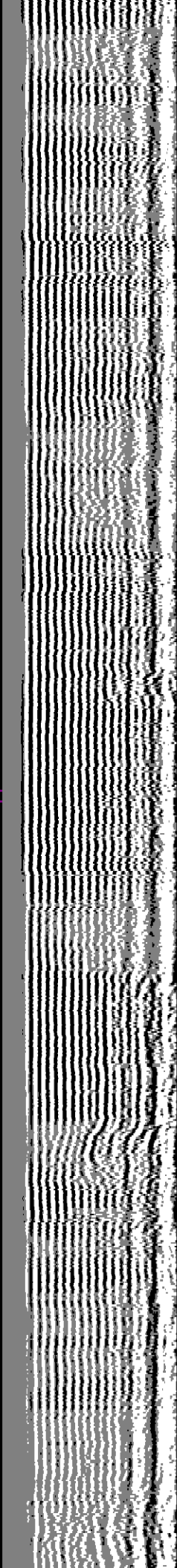
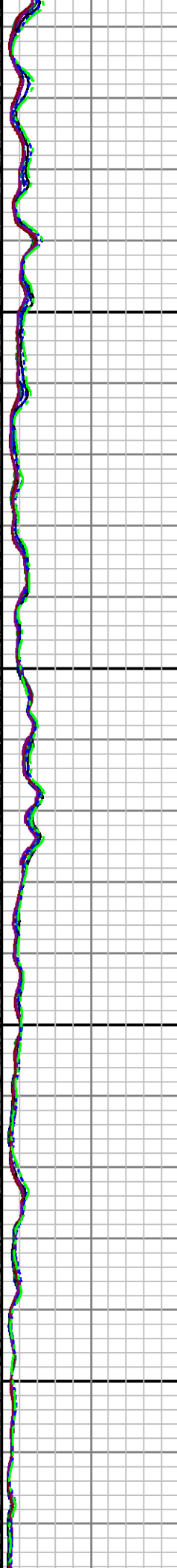
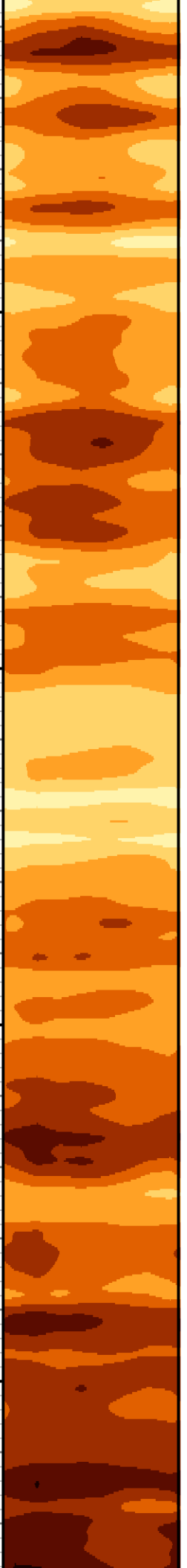






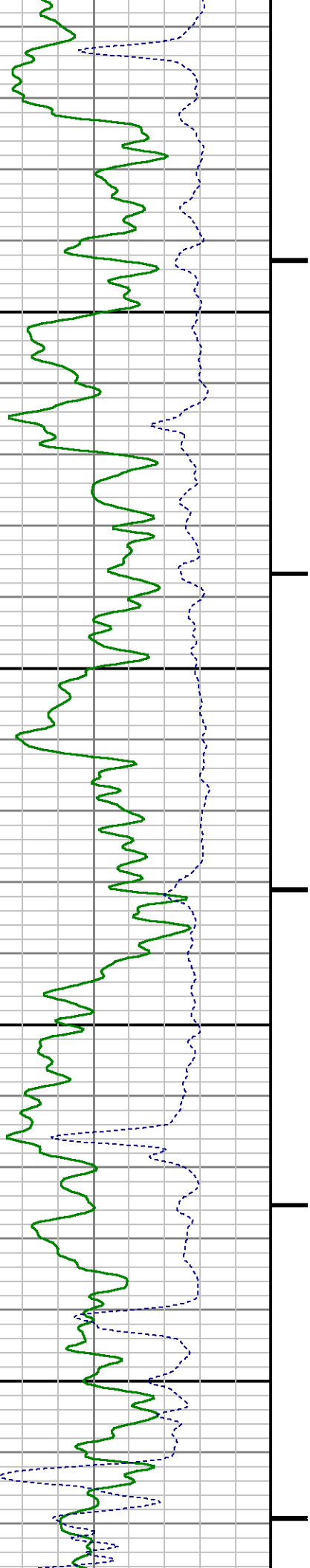


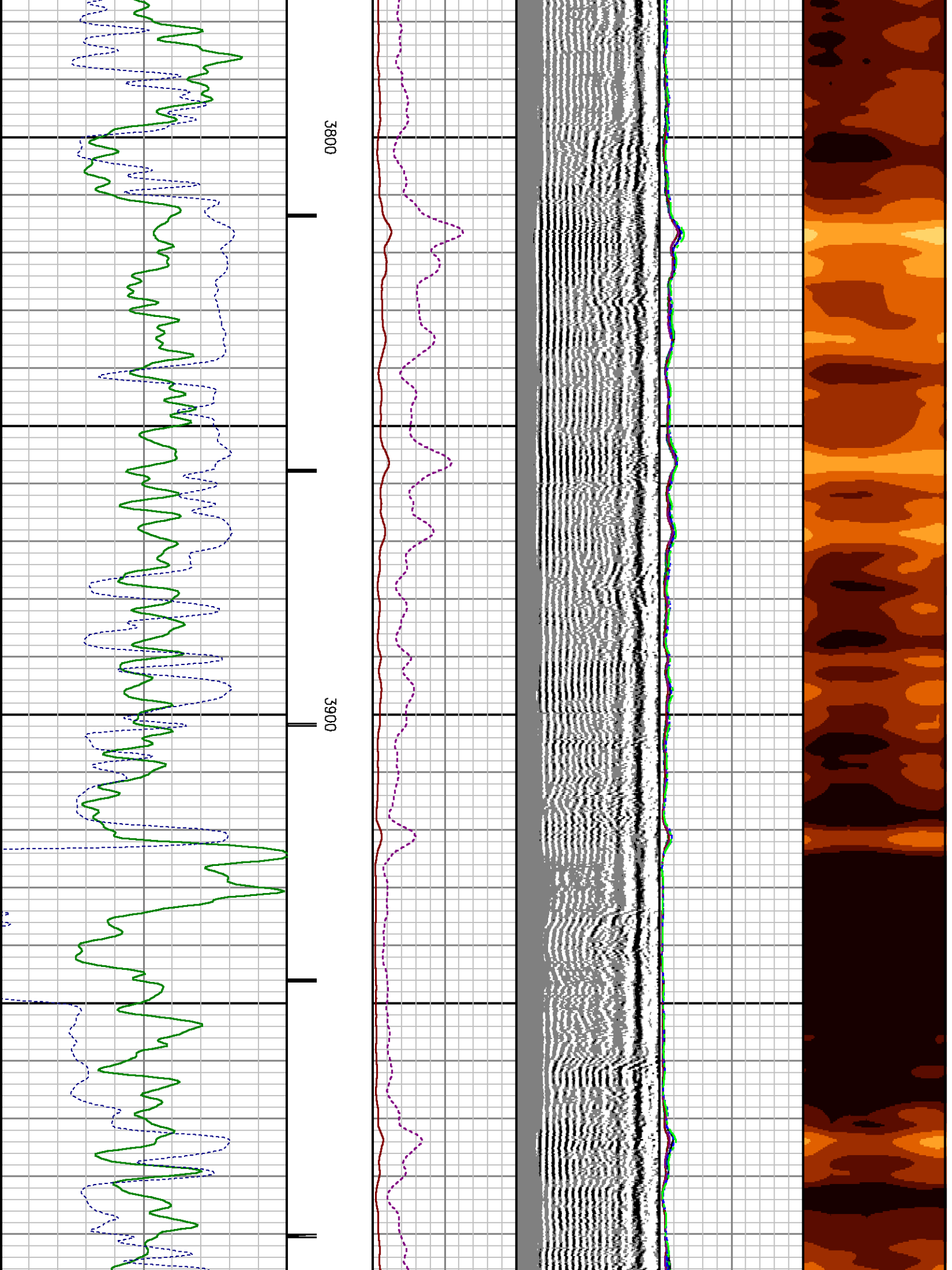


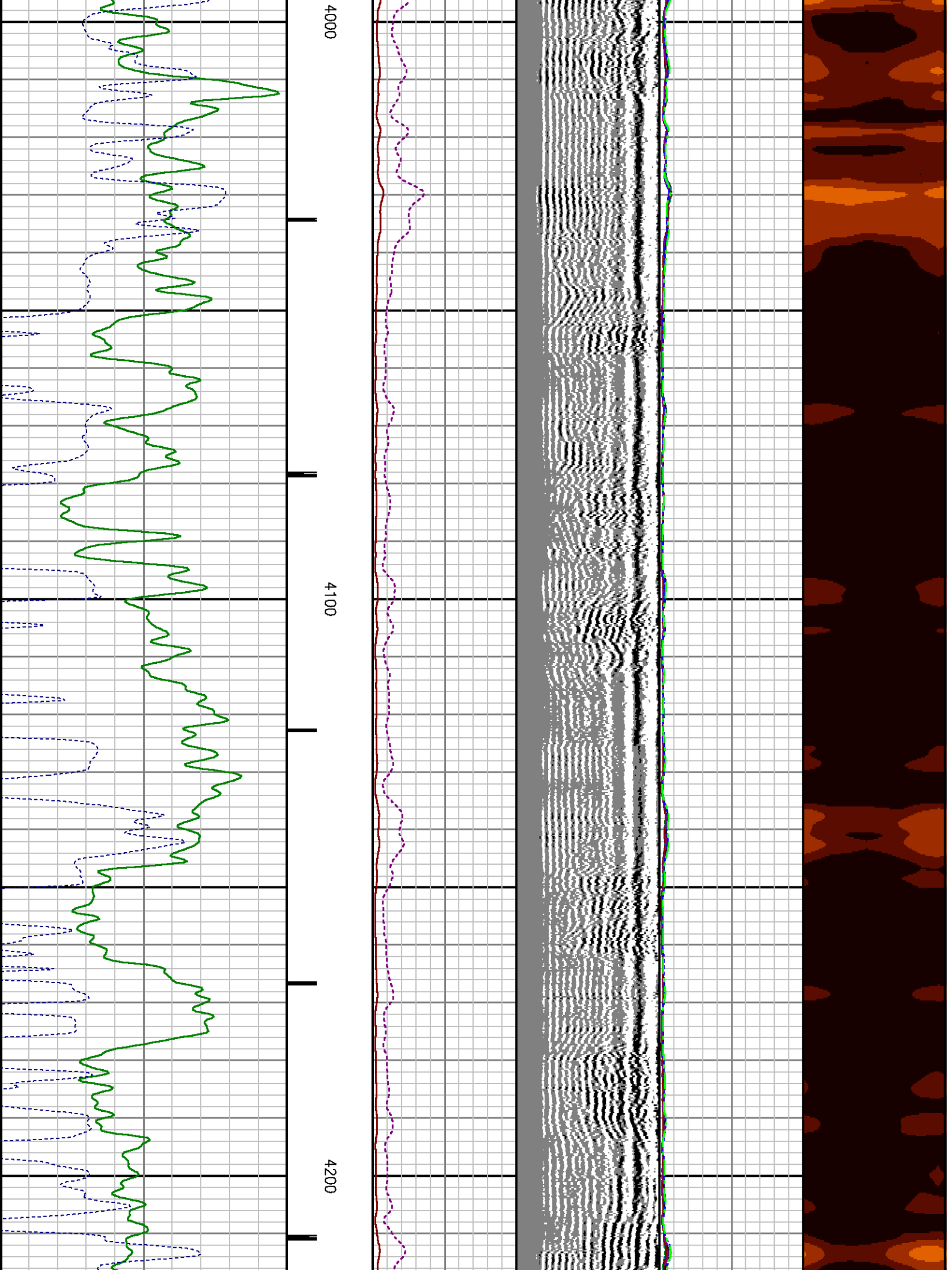


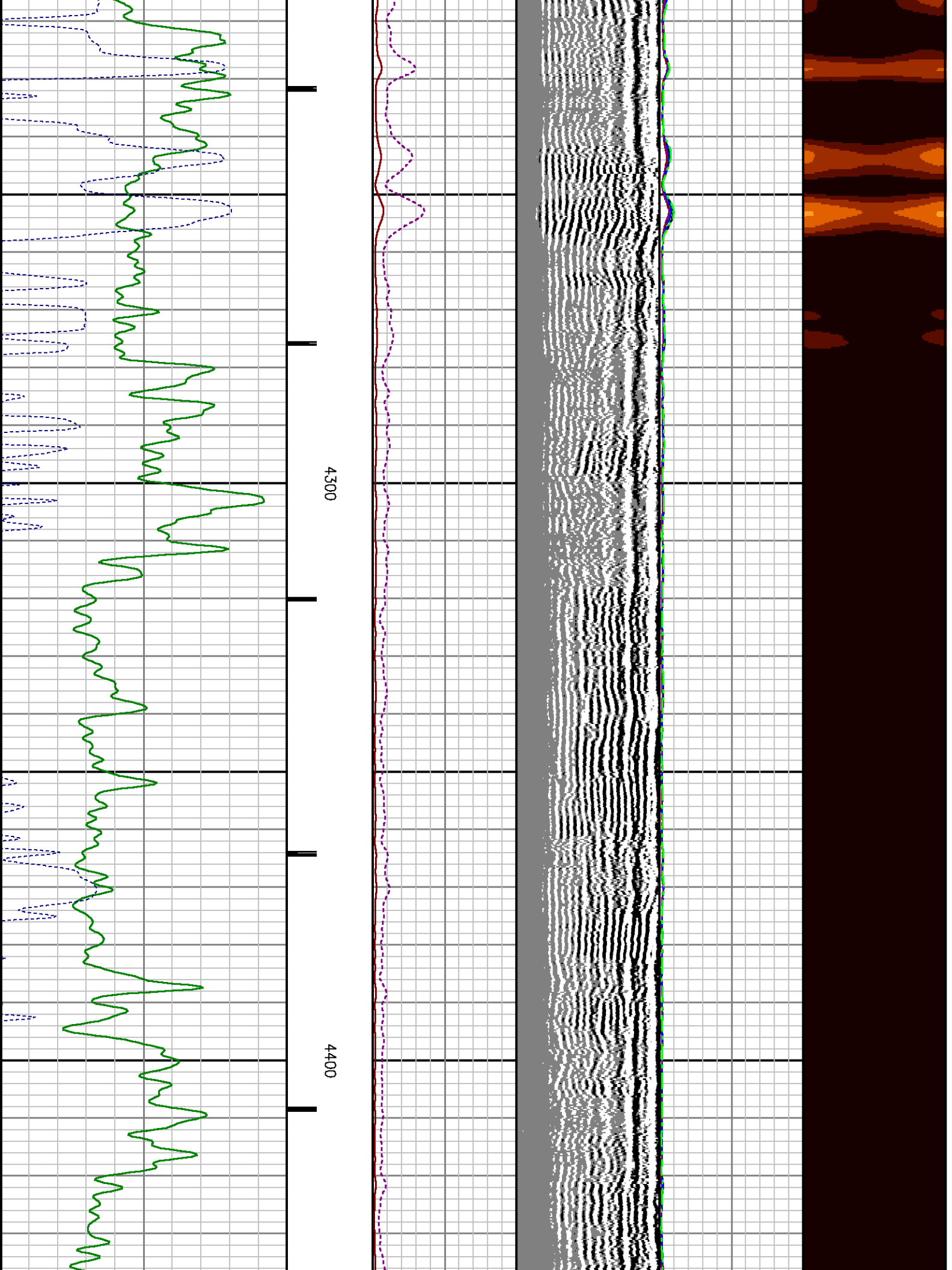
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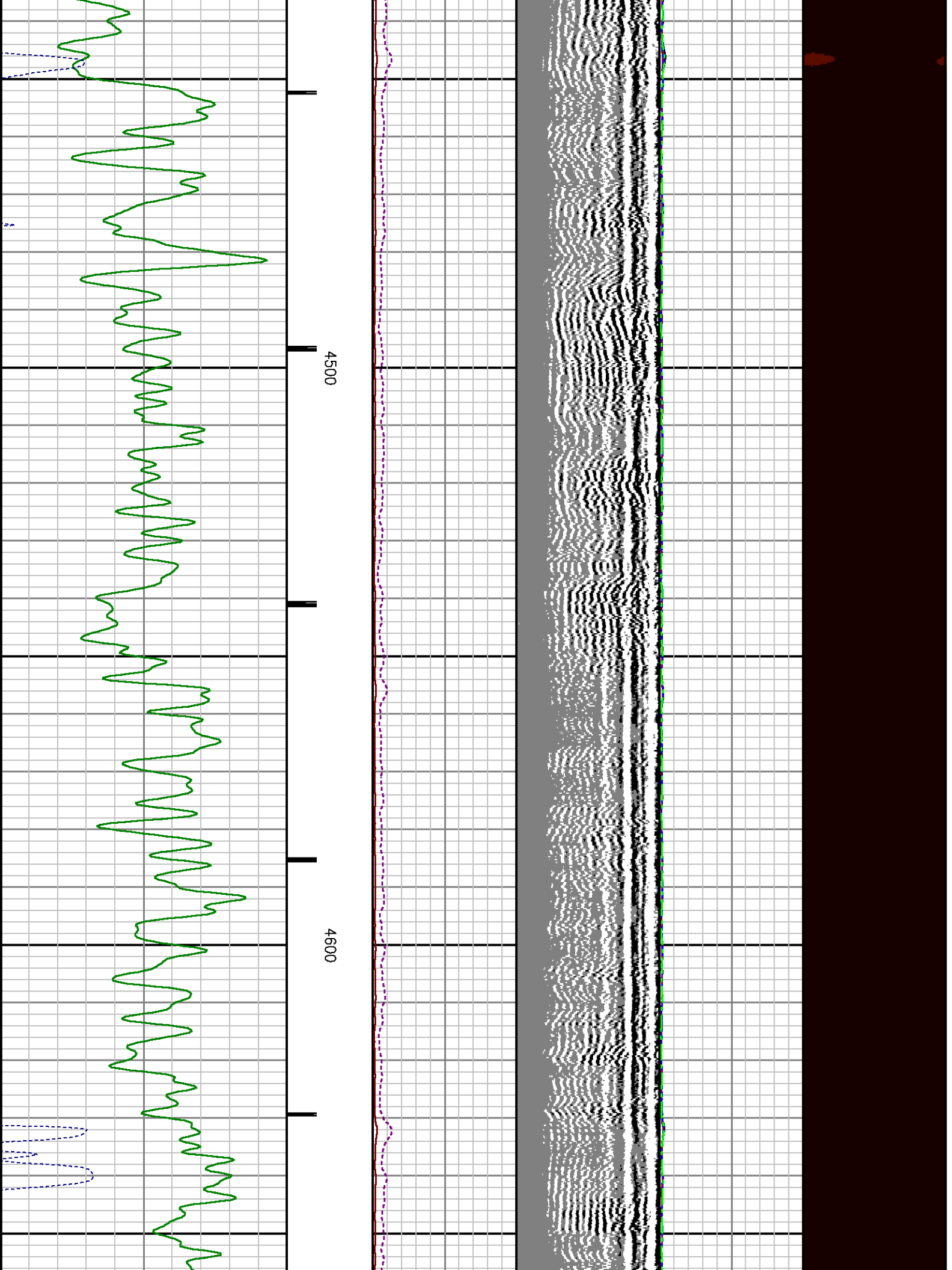
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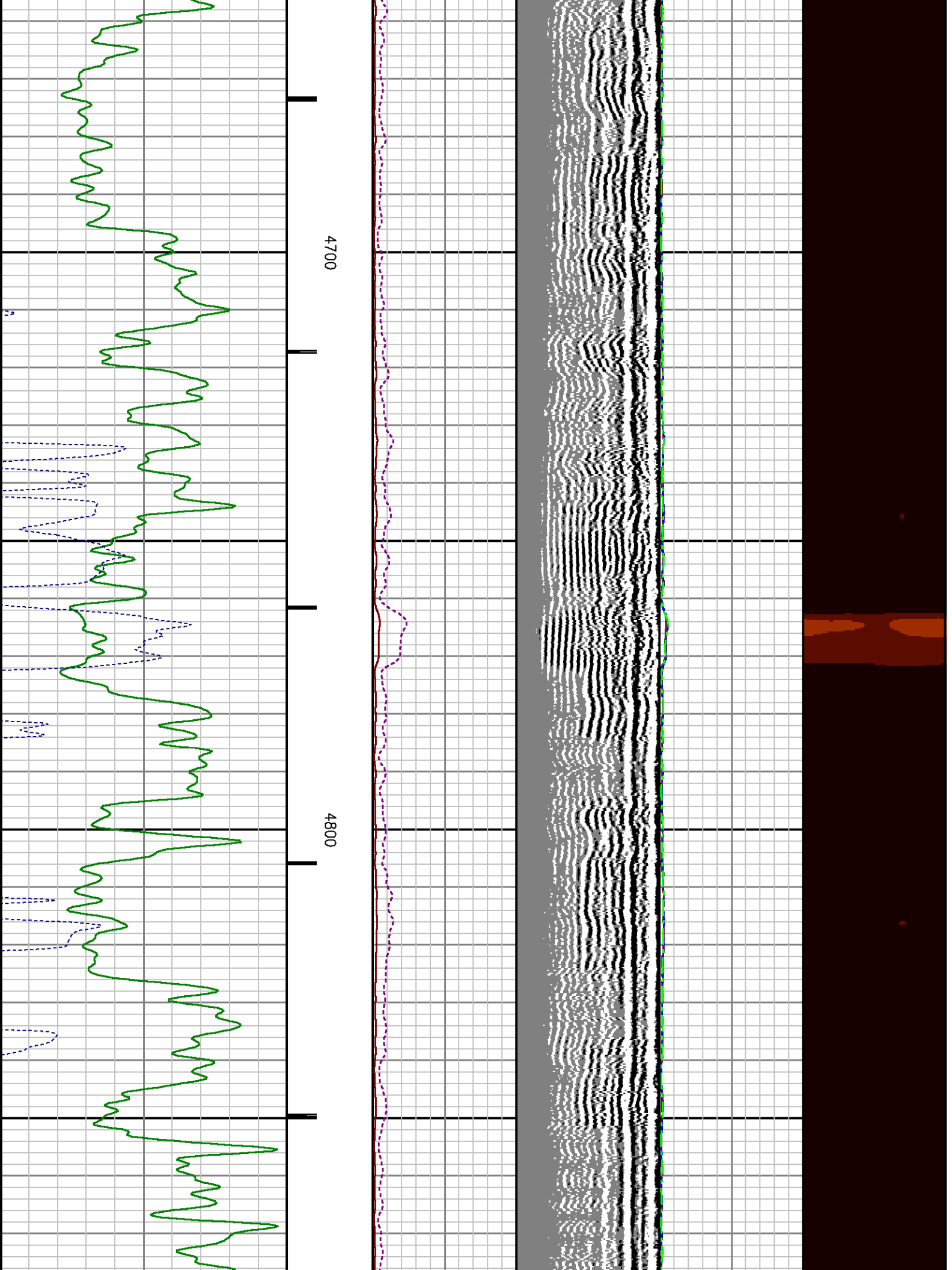


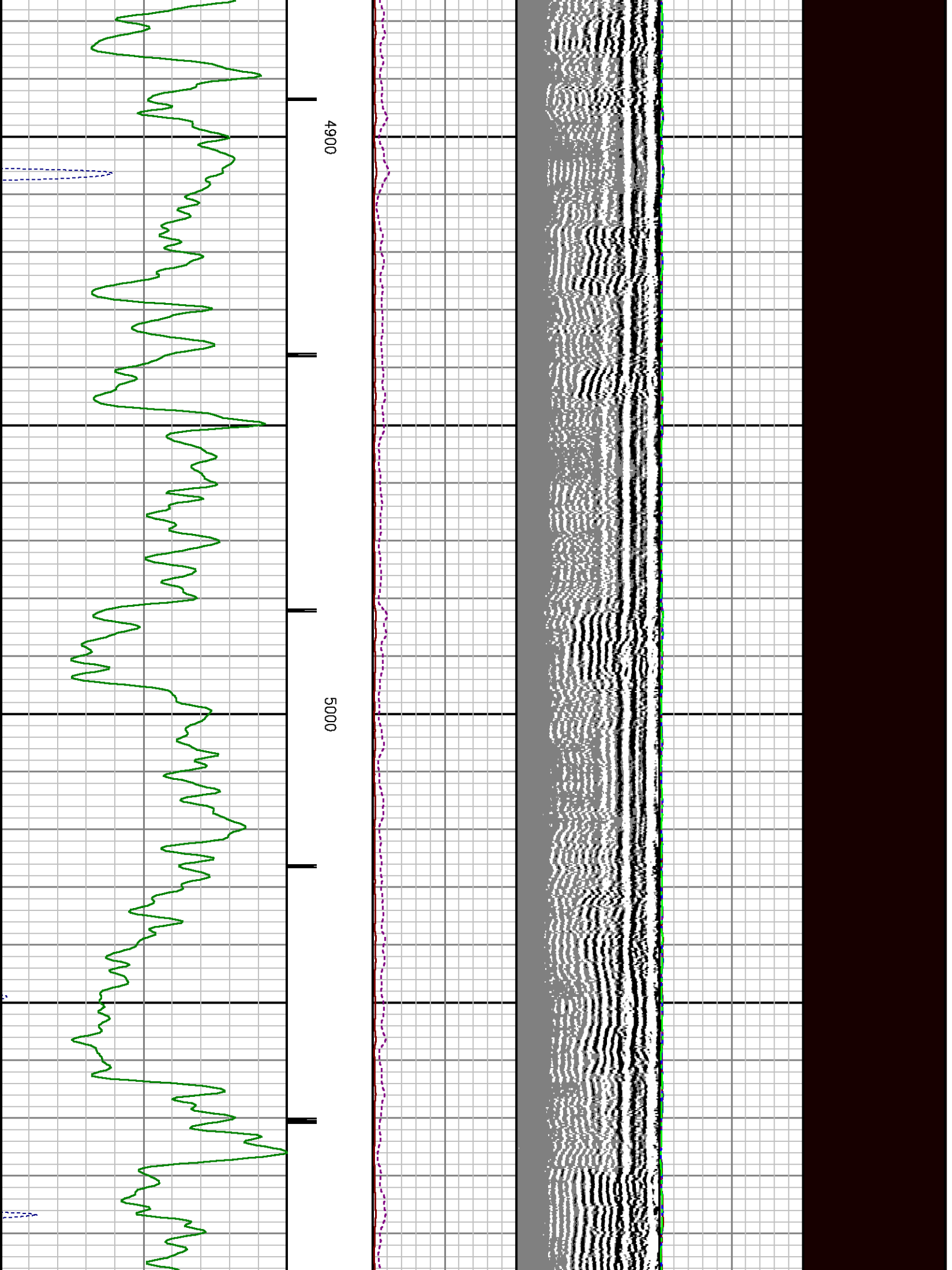


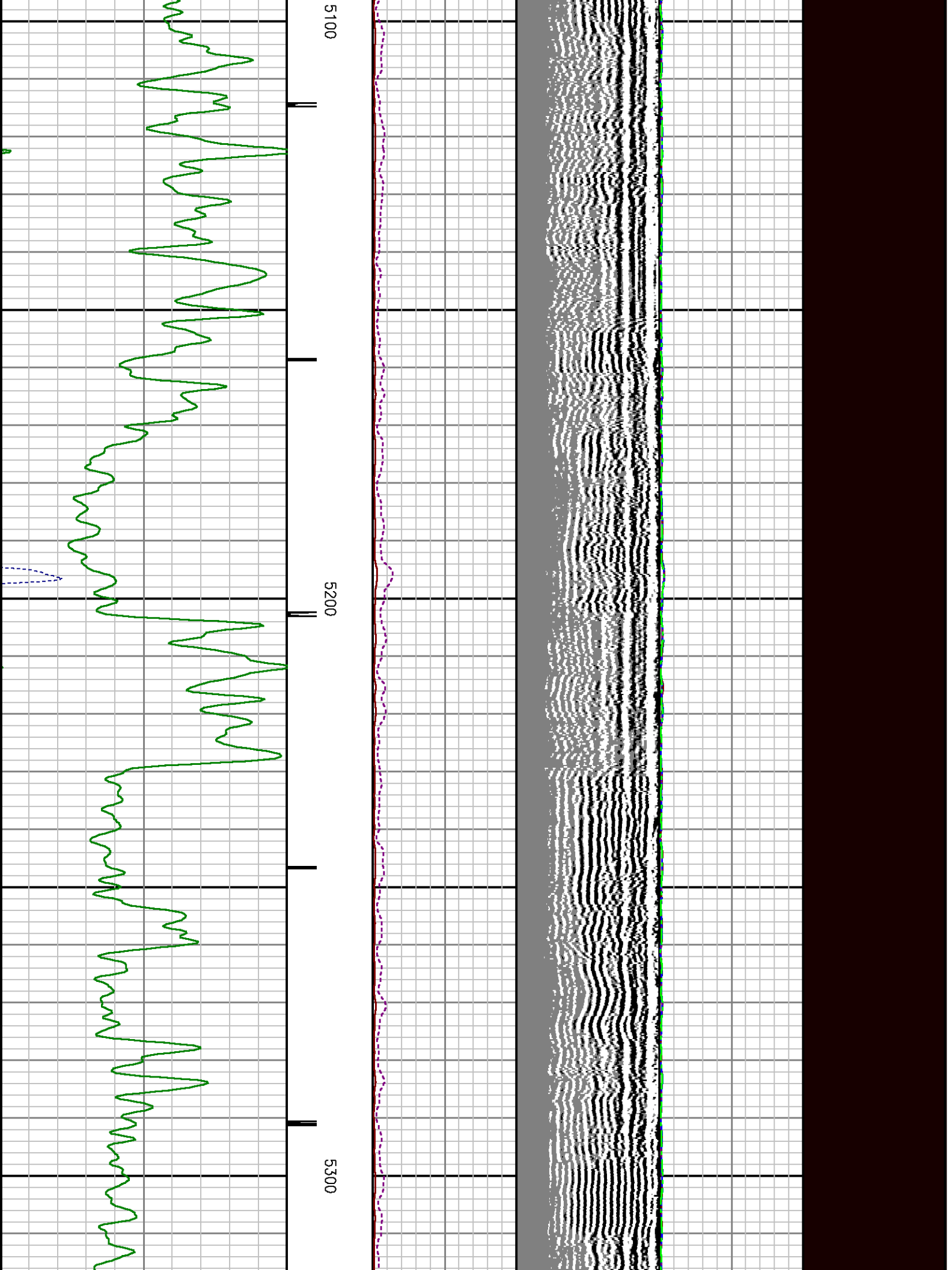


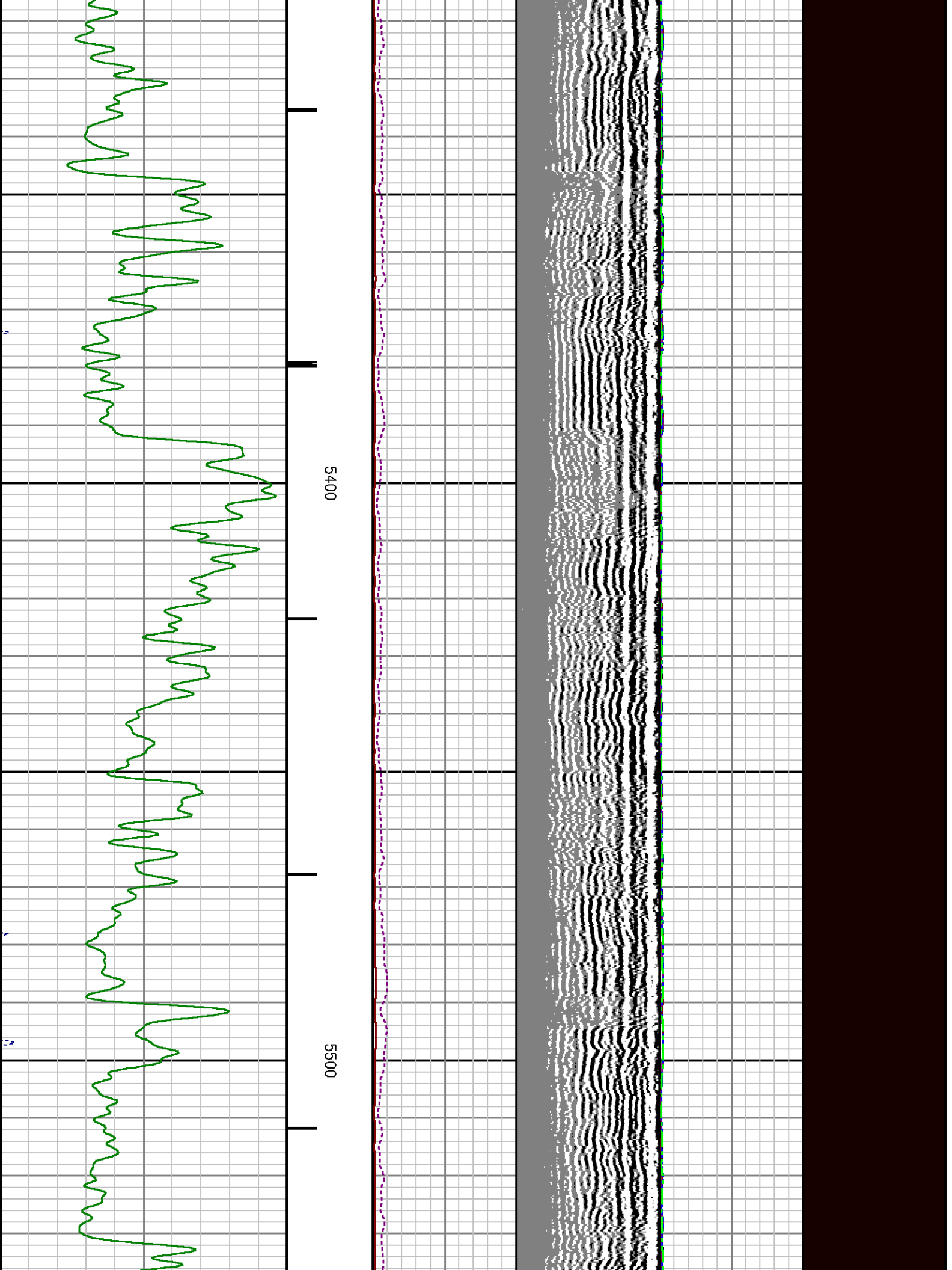


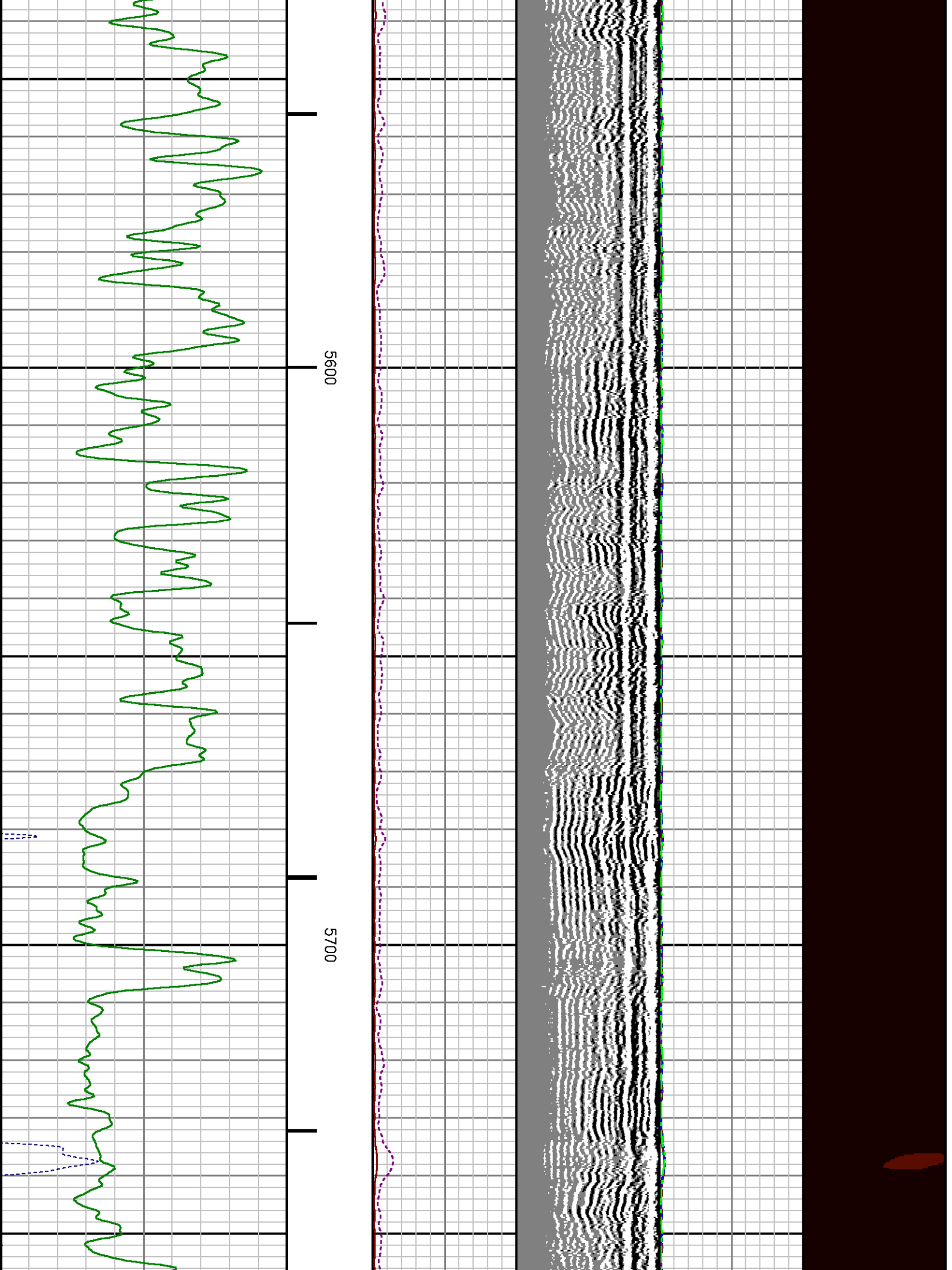


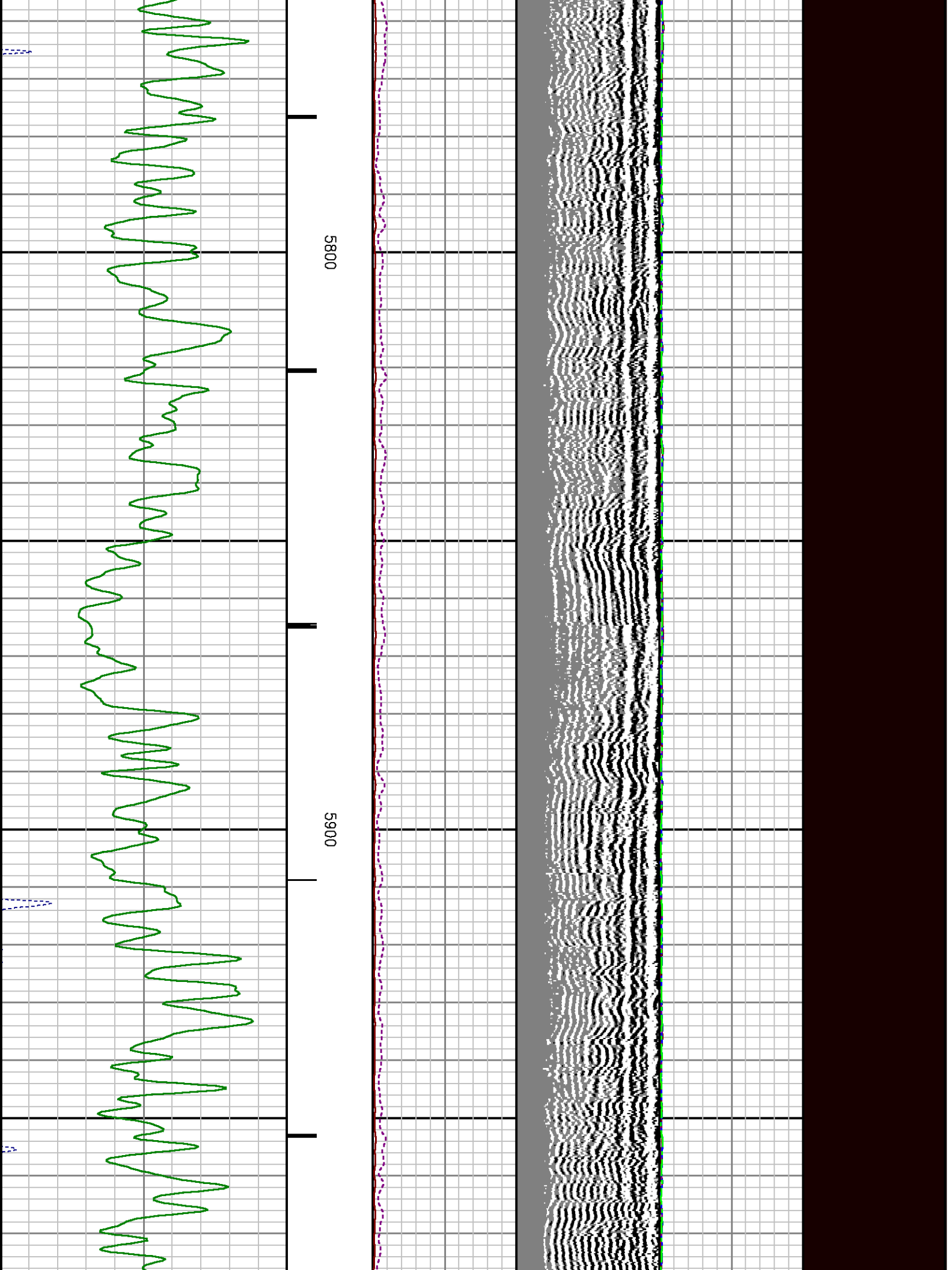


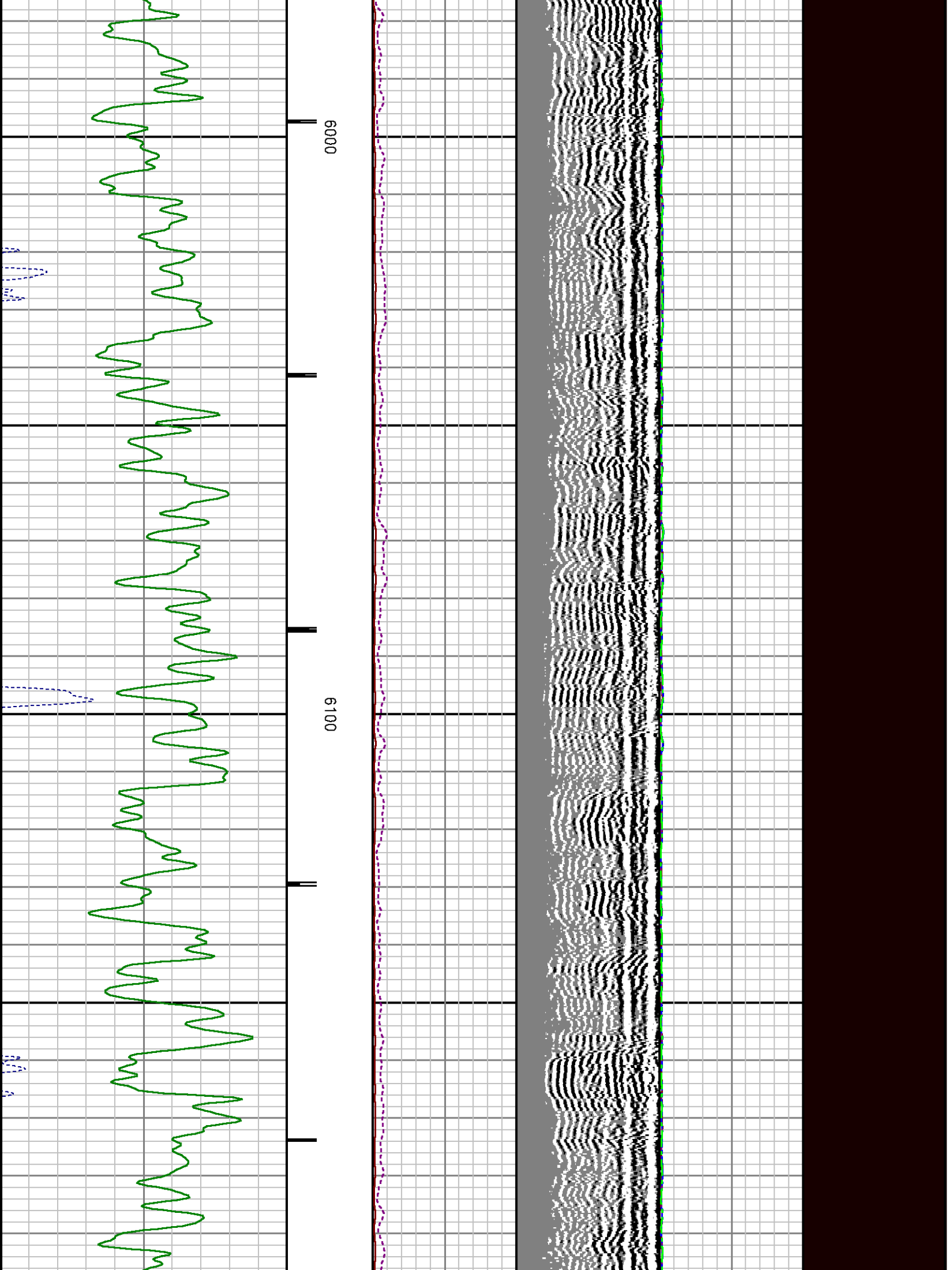


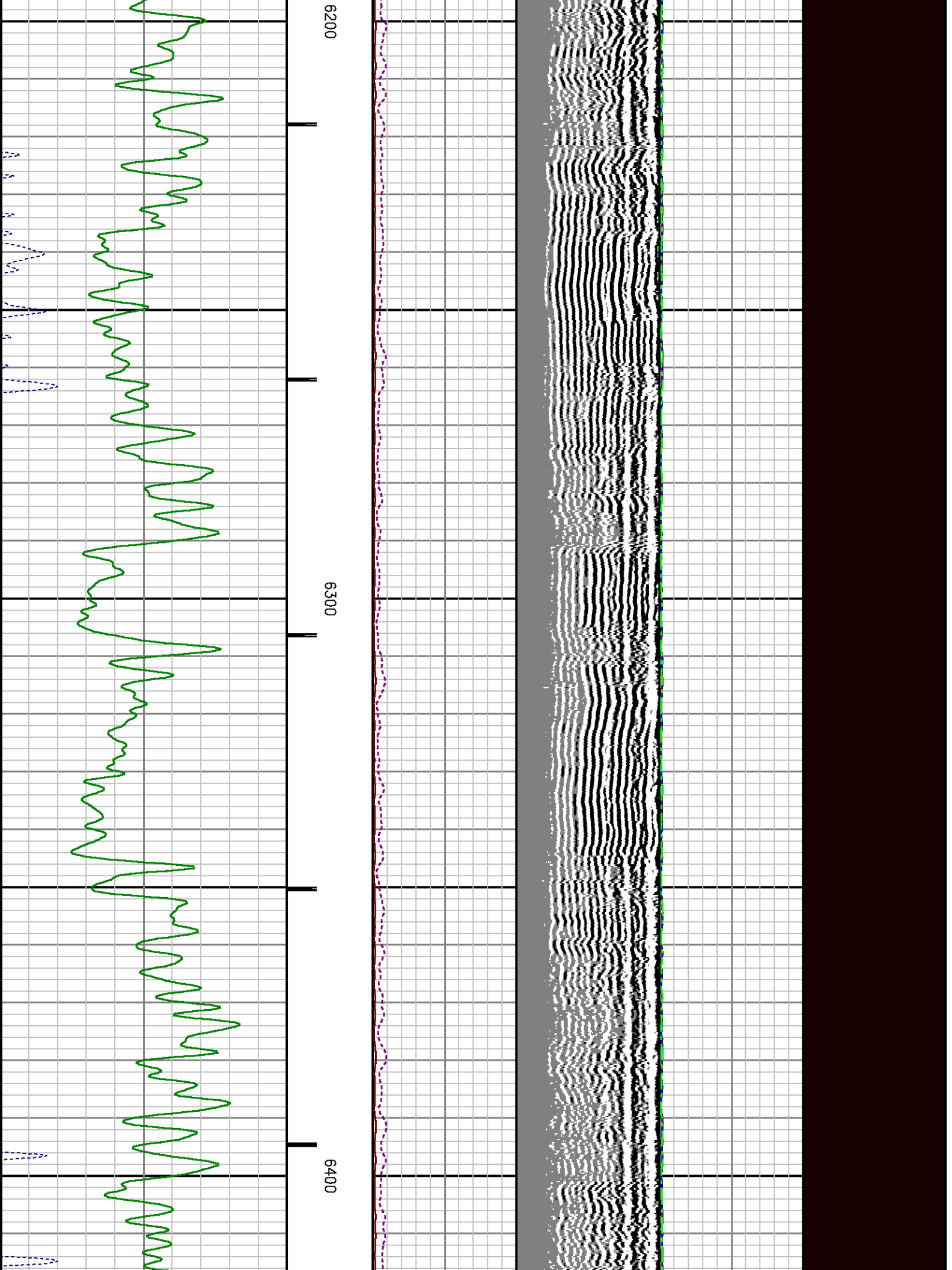


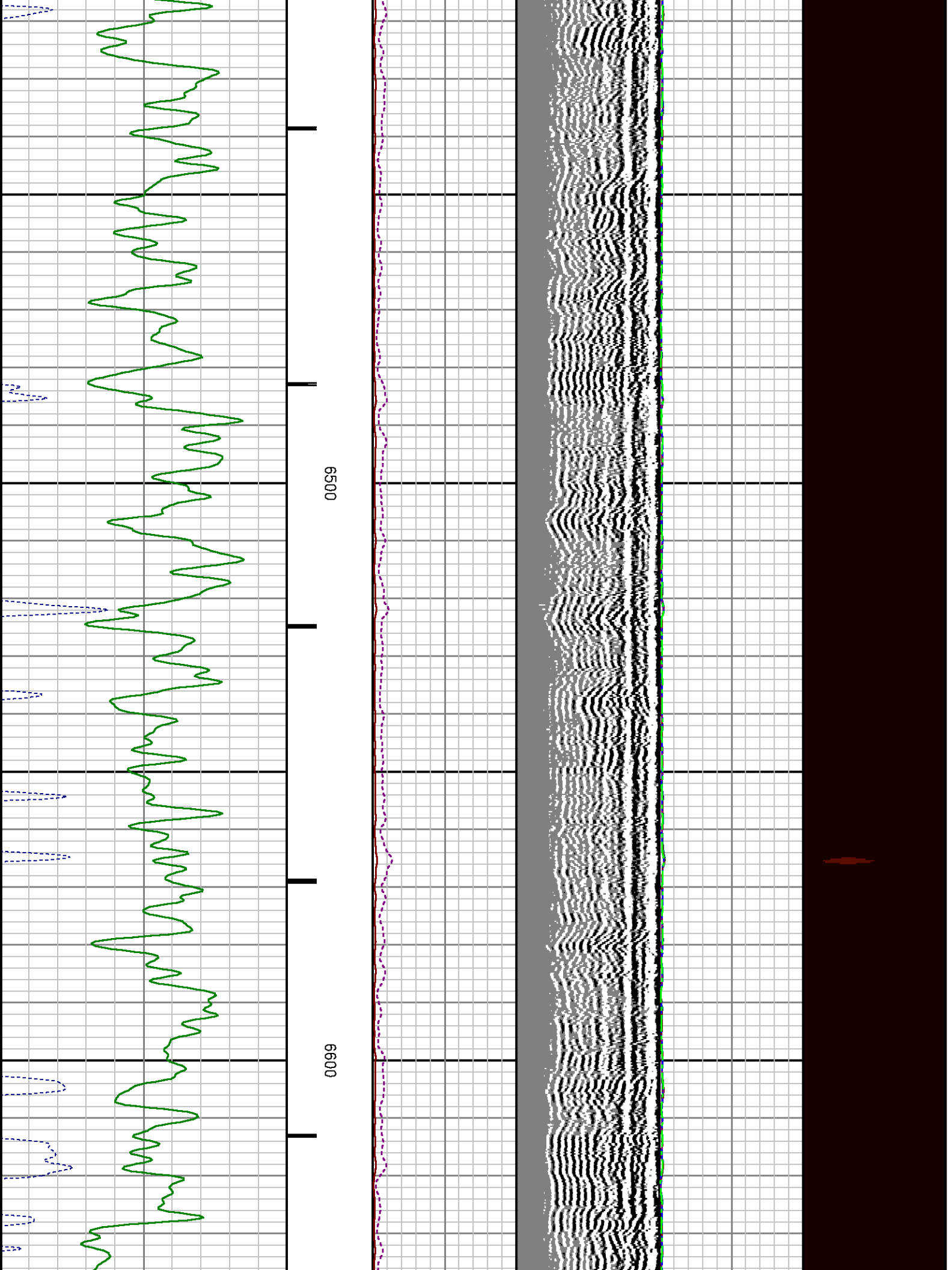


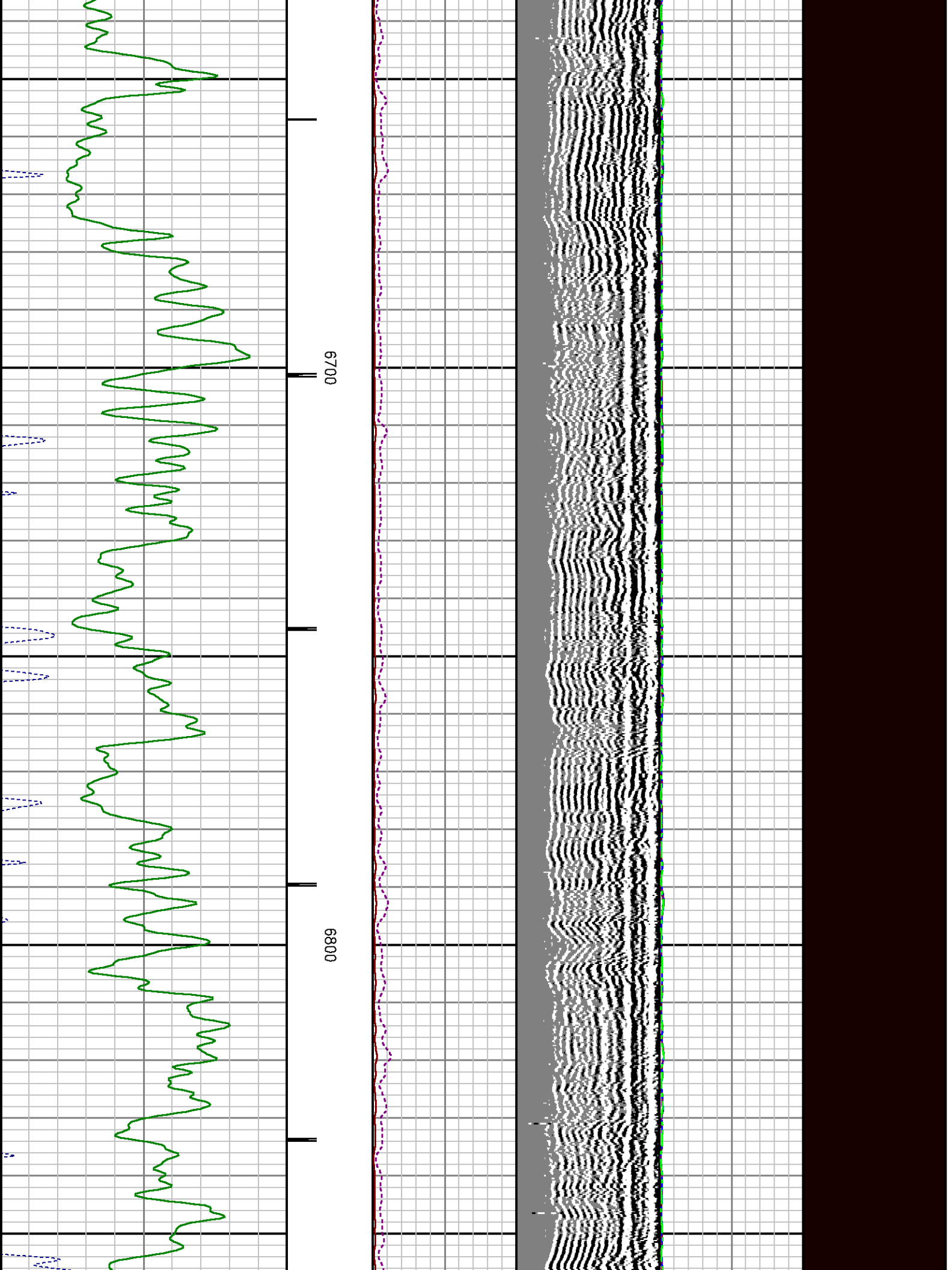


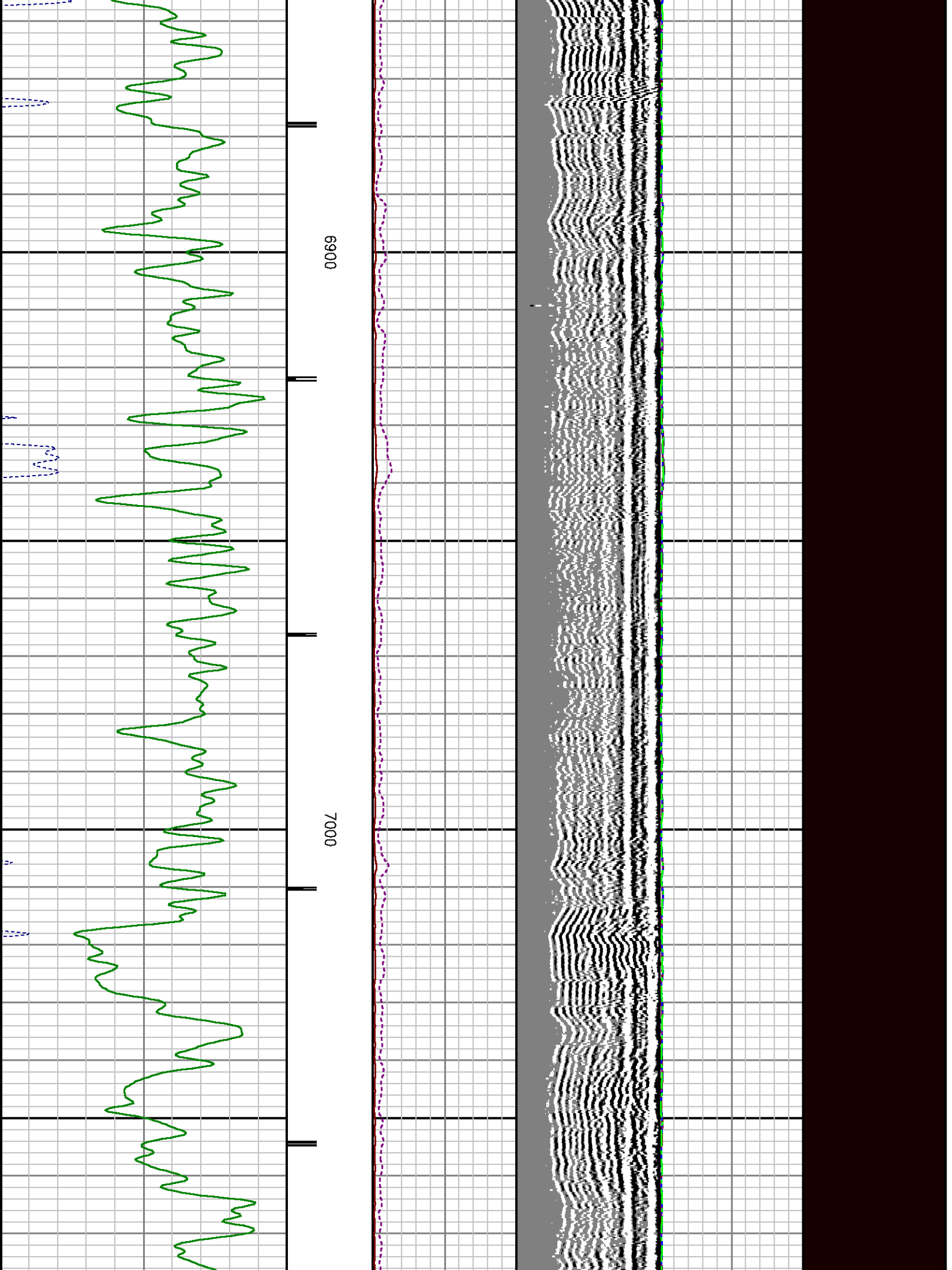


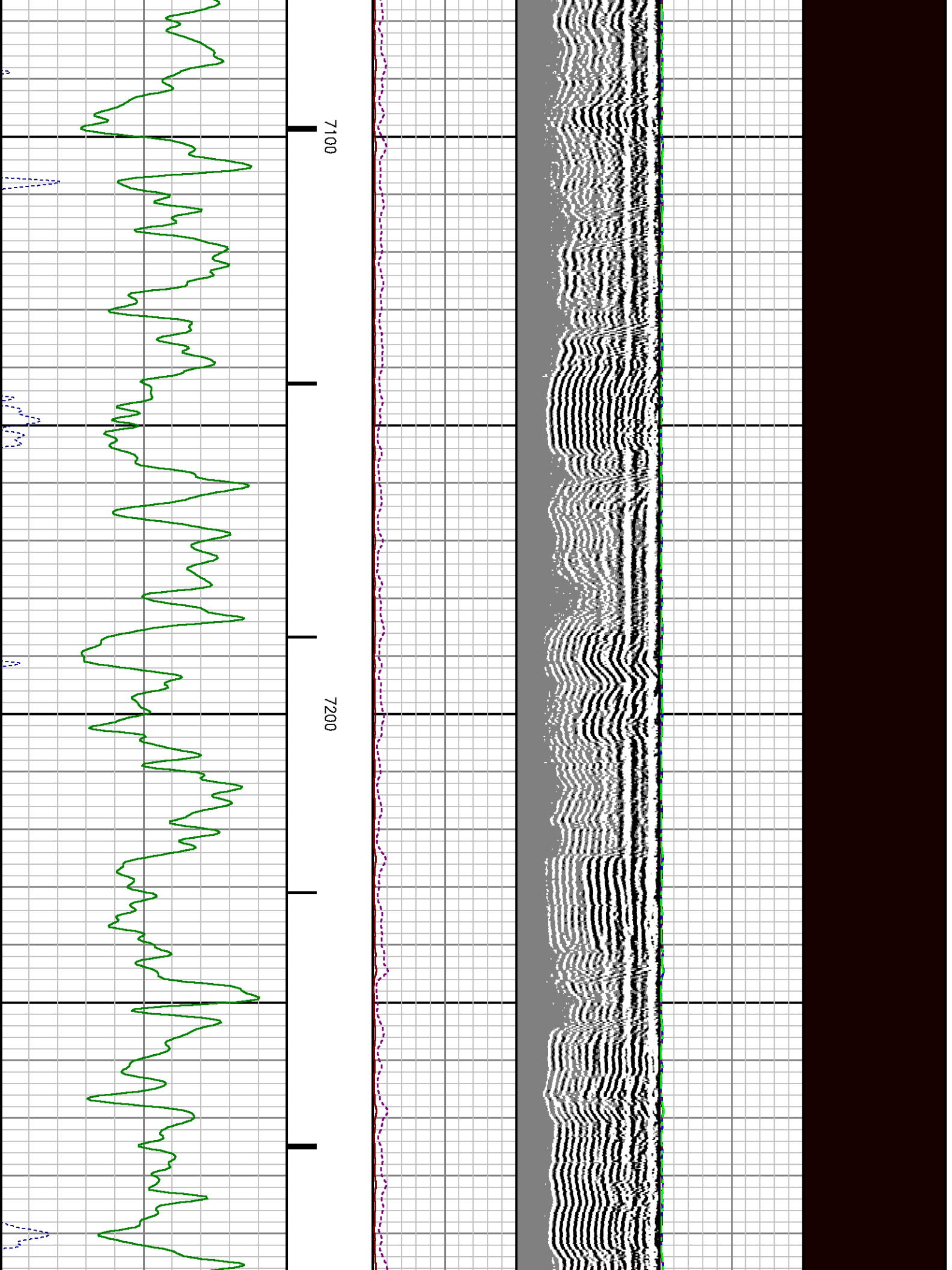


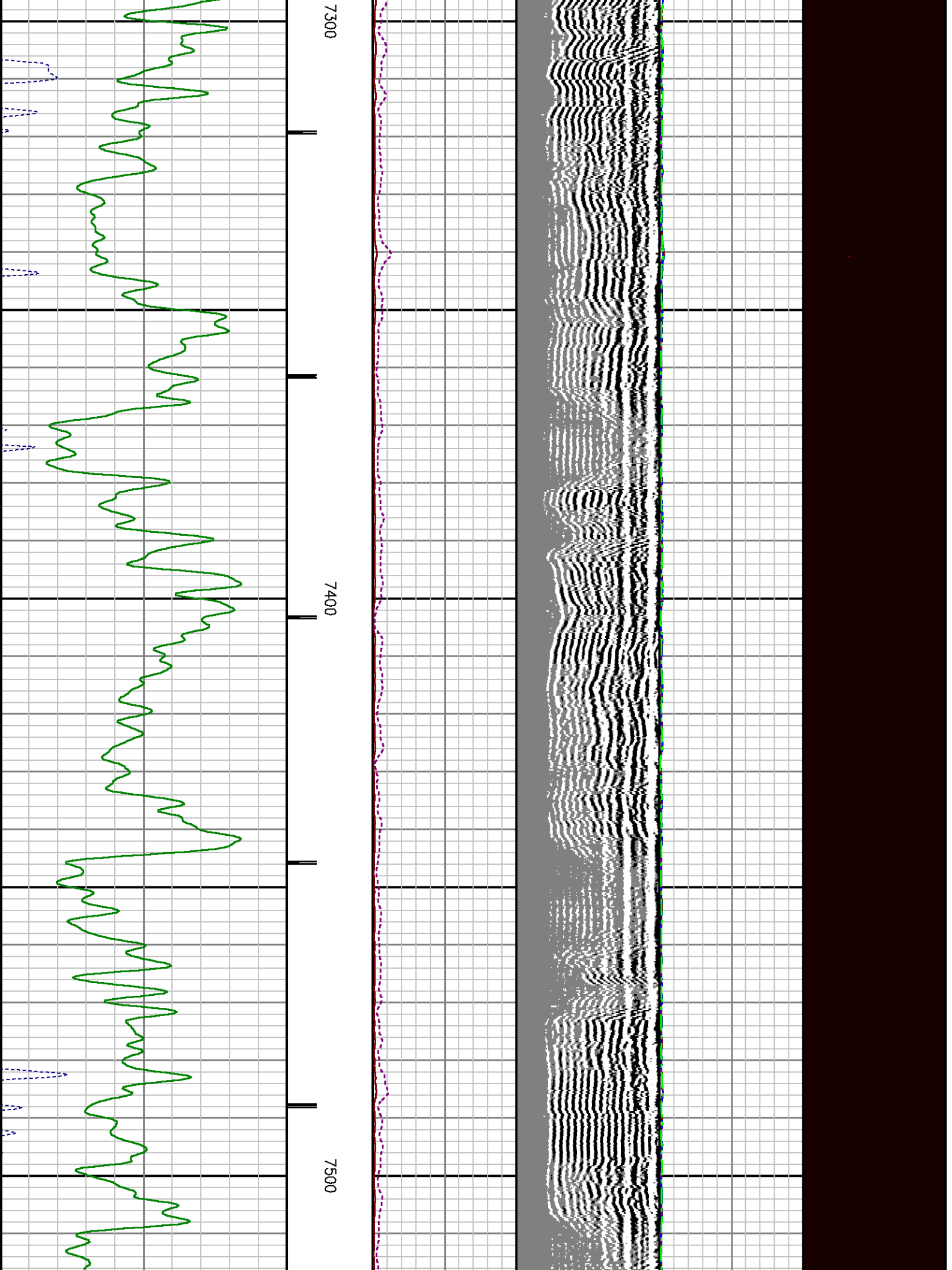


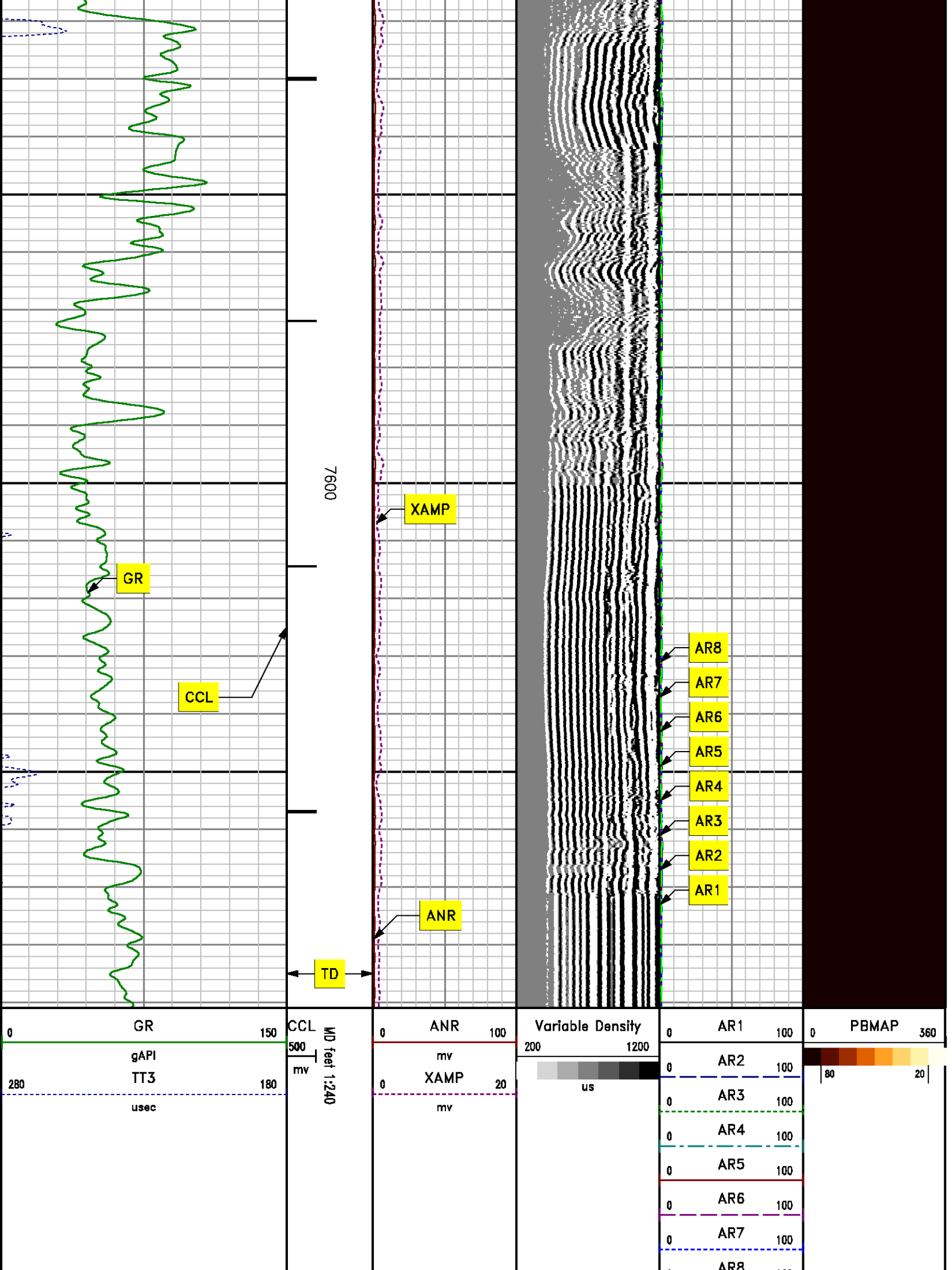












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.000	usec	6809.250	7122.250
RAL	Amp Gate Start Near	195.000	usec	6809.250	7122.250
RAL	Amp Gate Start Radial	195.000	usec	6809.250	7122.250
RAL	Amp Gate Width Far	25.000	usec	6809.250	7122.250
RAL	Amp Gate Width Near	25.000	usec	6809.250	7122.250
RAL	Amp Gate Width Radial	25.000	usec	6809.250	7122.250
RAL	casing od	4.500	inches	6809.250	7122.250
RAL	casing wt	11.600	lbm/ft	6809.250	7122.250
RAL	FB Start Far	291.900	usec	6809.250	7122.250
RAL	FB Start Near	180.000	usec	6809.250	7122.250
RAL	FB Start Radial	180.000	usec	6809.250	7122.250
RAL	FB Thresh Far	10.000	mv	6809.250	7122.250
RAL	FB Thresh Near	4.000	mv	6809.250	7122.250
RAL	FB Thresh Radial	4.000	mv	6809.250	7122.250
RAL	Fluid Travel Time	200.000	usec/ft	6809.250	7122.156

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	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	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

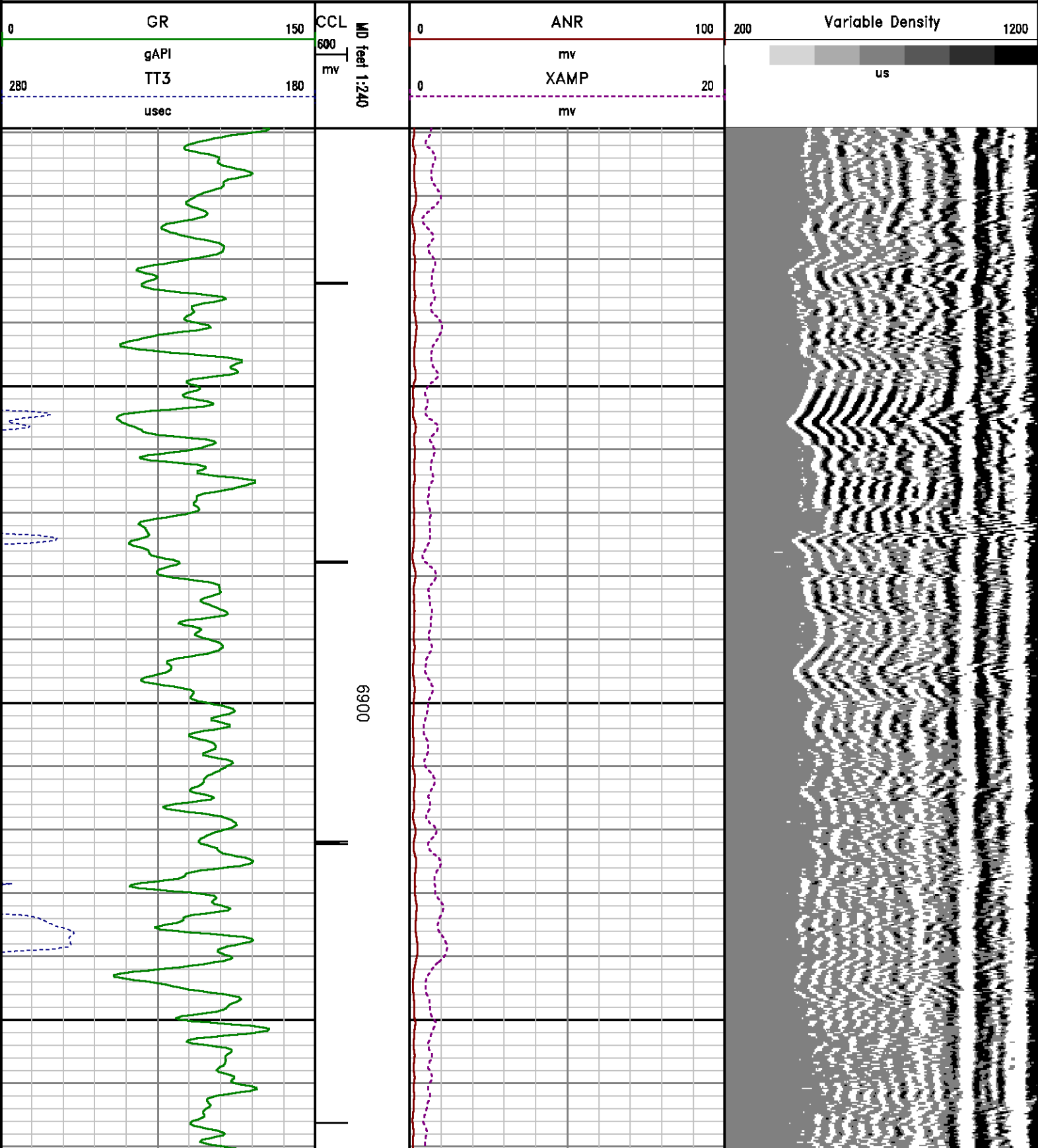
Well : FEDERAL PA 323-29

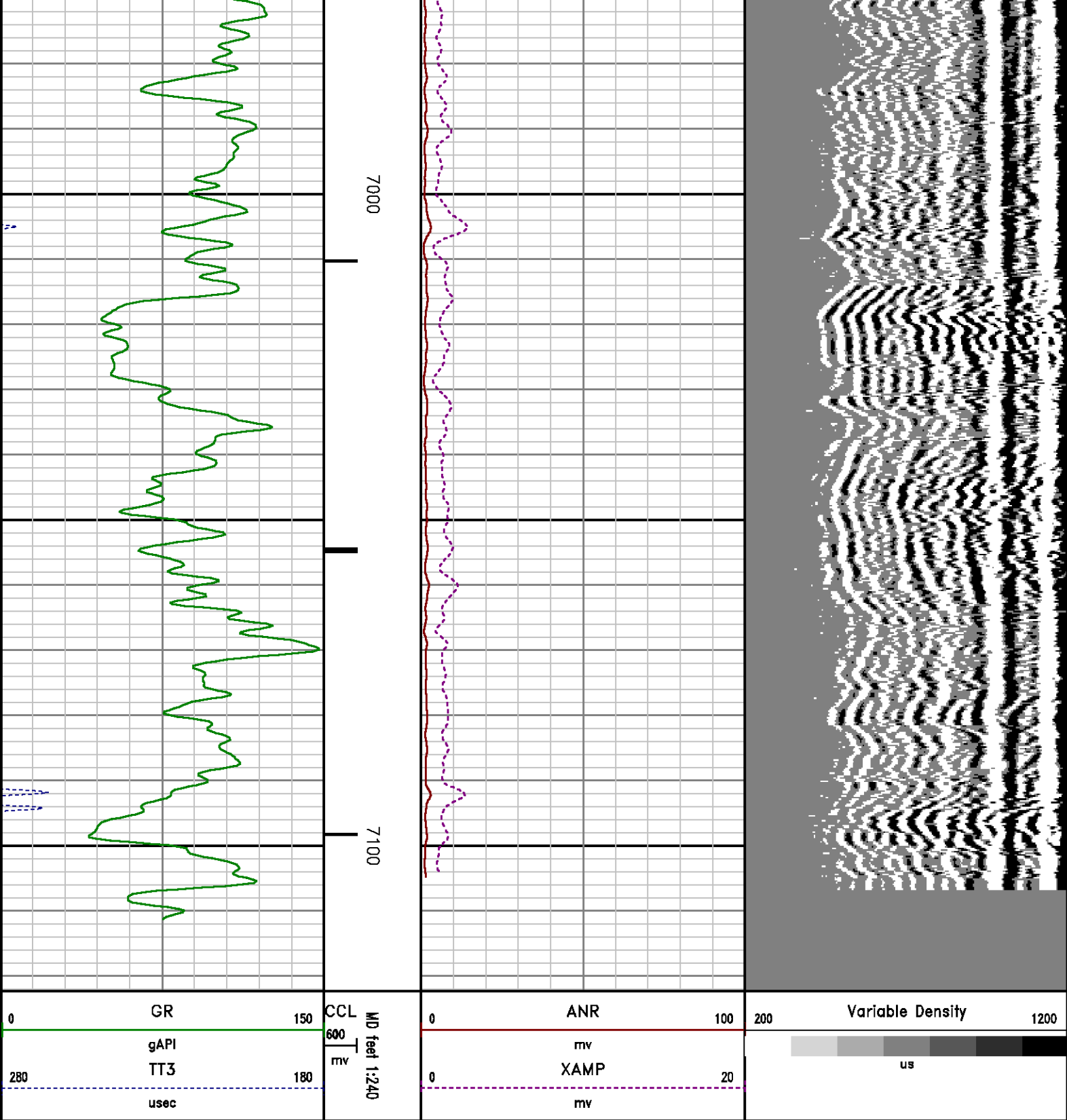
File Name : d:\welldata\williams\federal pa 323-29\cb1323\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 6809.25 - 7122.25 feet UP

Created : 2/27/2012 4:21:00 PM





CALIBRATION SUMMARY

PAISUP

RALSHP

Shop Calibration: C:\case\calver\RALSHP\452SMALL LF shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Feb 26 18:03:59 2012 TOOL SERIES: 1426XA ASSET: 452SMALL L SEQ: F

Tool Delay [usec]	-53.00	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	216	216	30	166	25	-0.296	100.00	0.29
3 Ft. Receiver	216	216	30	153	25	0.158	100.00	0.29
5 Ft. Receiver	324	324	30	218	25	0.193	150.00	0.31
Radial #1	216	216	30	154	25	0.353	100.00	0.29
Radial #2	215	216	30	154	25	0.140	100.00	0.28
Radial #3	215	216	30	154	25	-0.064	100.00	0.28
Radial #4	215	216	30	154	25	0.111	100.00	0.29
Radial #5	216	216	30	154	25	-0.250	100.00	0.29
Radial #6	217	216	30	154	25	0.035	100.00	0.29
Radial #7	216	216	30	154	25	0.132	100.00	0.29
Radial #8	217	216	30	154	25	-0.139	100.00	0.29

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\452SMALL LF fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Feb 26 18:05:37 2012 TOOL SERIES: 1426XA ASSET: 452SMALL L SEQ: F

Tool Delay [usec]	-53.00	Casing OD In	4.50	Casing Wt lbm/ft	11.60	Casing ID In	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	166	25	-0.066	0.000	1.00	100.000
3 Ft. Receiver	200	30	2.145			
5 Ft. Receiver	317	30	5.287			
Radial #1	200	30	2.320			
Radial #2	200	30	2.478			
Radial #3	200	30	2.397			
Radial #4	200	30	1.966			
Radial #5	200	30	1.736			
Radial #6	200	30	1.818			
Radial #7	200	30	1.967			
Radial #8	200	30	1.905			

GAMMA RAY

Calibration File: C:\case\calver\GR\503M3.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Dec 24 14:10:12 2011 TOOL SERIES: 2459XA ASSET: 503 SEQ: M3

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
JIG BA905	61.07	287.60	0.817	49.87	234.87	185.00

Verification File: C:\case\calver\GR\503M3.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sat Dec 24 14:11:41 2011 TOOL SERIES: 2459XA ASSET: 503 SEQ: M3

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
JIG BA905	63.38	294.80	0.817	51.76	240.75	188.99

TOOL DIAGRAM

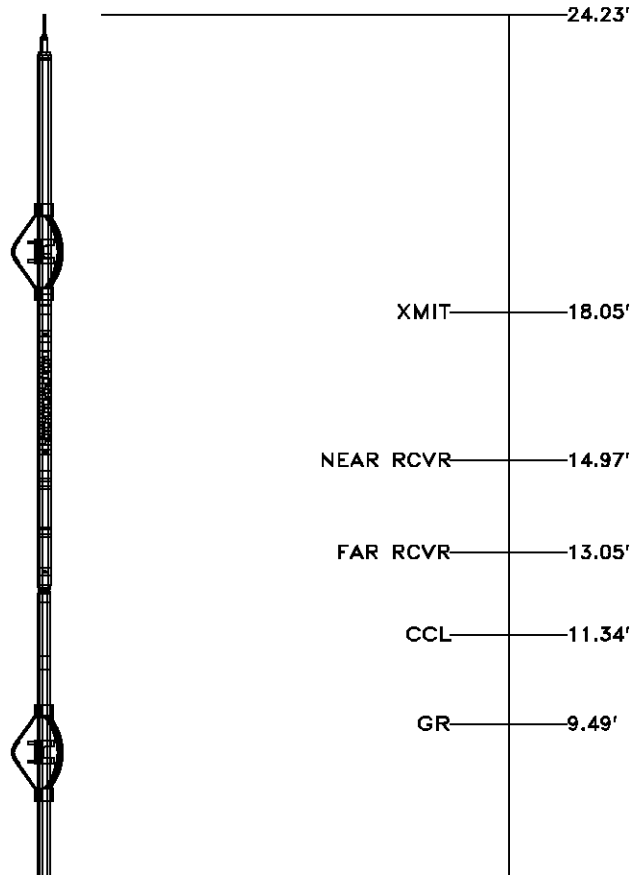
OTA SHORT CABLE HEAD

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

Probe GR/CCL/NEU

Series	2459XA
Mnemonic	PROB
Diameter	2.75"
Length	9.42'
Measure Point	1.21' NEU
Measure Point	6.60' GR



Measure Point 8.46' CCL

NEU 4.09'

CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

Total Length: 24.23'

Total Weight: Not Available

Max Diameter: 0' 3.12"



Company

WPX ENERGY

Well

FEDERAL PA 323-29

Field

PARACHUTE

County

GARFIELD

State

COLORADO

File No:

CH050362

API No:

05045195240000

Location

SHL: 585' FSL 2285' FWL

BHL: 1689' FSL 1986' FWL

Elevations

KB 5702 ft

DF

GL 5675 ft

29-T6S-R95W

DOE 3-W-29 pad

Nabors 577

SEC 29

TWP 6S

RGE 95W

Baker Atlas

