



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	WPX ENERGY
CH075720	Well	WPX ENERGY GM 424-34
API No:	Field	GRAND VALLEY
05045193080000	County	GARFIELD
	State	COLORADO
Location		Other Services
34-65-96W GM 23-34 PAD NABORS 574		RPM
SHL: 1960' FSL X 2167' FWL BHL: 647' FSL X 1488' FWL (SESW)		
Permanent Datum	GL	Elevation
Log Measured From	KB	5355.5 ft
Drill Measured From	KELLY BUSHING	Above P. D.
	GL	Elevations
		KB 5381.5 ft
		DF
		GL 5355.5 ft

Date	17/AUG/13
Run	ONE
Service Order	624402
Depth Driller	6652 ft
Depth Logger	6616 ft
Bottom Logged Interval	6606 ft
Top Logged Interval	26 ft
Time Started	0800
Time Finished	1030
Operator Rig Time	2.5 HRS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	61 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	45 fpm
Maximum Recorded Temperature	212 degF
Reference Log	NONE
Reference Log Date	NA
Equipment No.	4271
Location	GRAND JCT
Recorded By	FLOYD RENEAU
Witnessed By	LEWIS CARTER

- 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	918 ft
8.75 in	918 ft	6652 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	918 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	6652 ft

Remarks
All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.
The amount of linear shift is 9 feet.
Logged with zero PSI at wellhead.
BHT = 212°F
SJ = 3480'--3504'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	1355XA	10580209	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	30.438	6634.000
RAL	Amp Gate Start Near	195.000	usec	30.438	6634.000
RAL	Amp Gate Start Radial	195.000	usec	30.438	6634.000
RAL	Amp Gate Width Far	25.000	usec	30.438	6634.000
RAL	Amp Gate Width Near	25.000	usec	30.438	6634.000
RAL	Amp Gate Width Radial	25.000	usec	30.438	6634.000
RAL	casing od	4.500	inches	30.438	6634.000
RAL	casing wt	11.600	lbm/ft	30.438	6634.000
RAL	FB Start Far	291.900	usec	30.438	6634.000
RAL	FB Start Near	180.000	usec	30.438	6634.000
RAL	FB Start Radial	180.000	usec	30.438	6634.000
RAL	FB Thresh Far	10.000	mv	30.438	6634.000
RAL	FB Thresh Near	4.000	mv	30.438	6634.000
RAL	FB Thresh Radial	4.000	mv	30.438	6634.000
RAL	Fluid Travel Time	200.000	usec/ft	30.438	6633.969

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

1426XA -10.040
1355XA -5.620
1355XA -1.500
1355XA 0.000

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

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

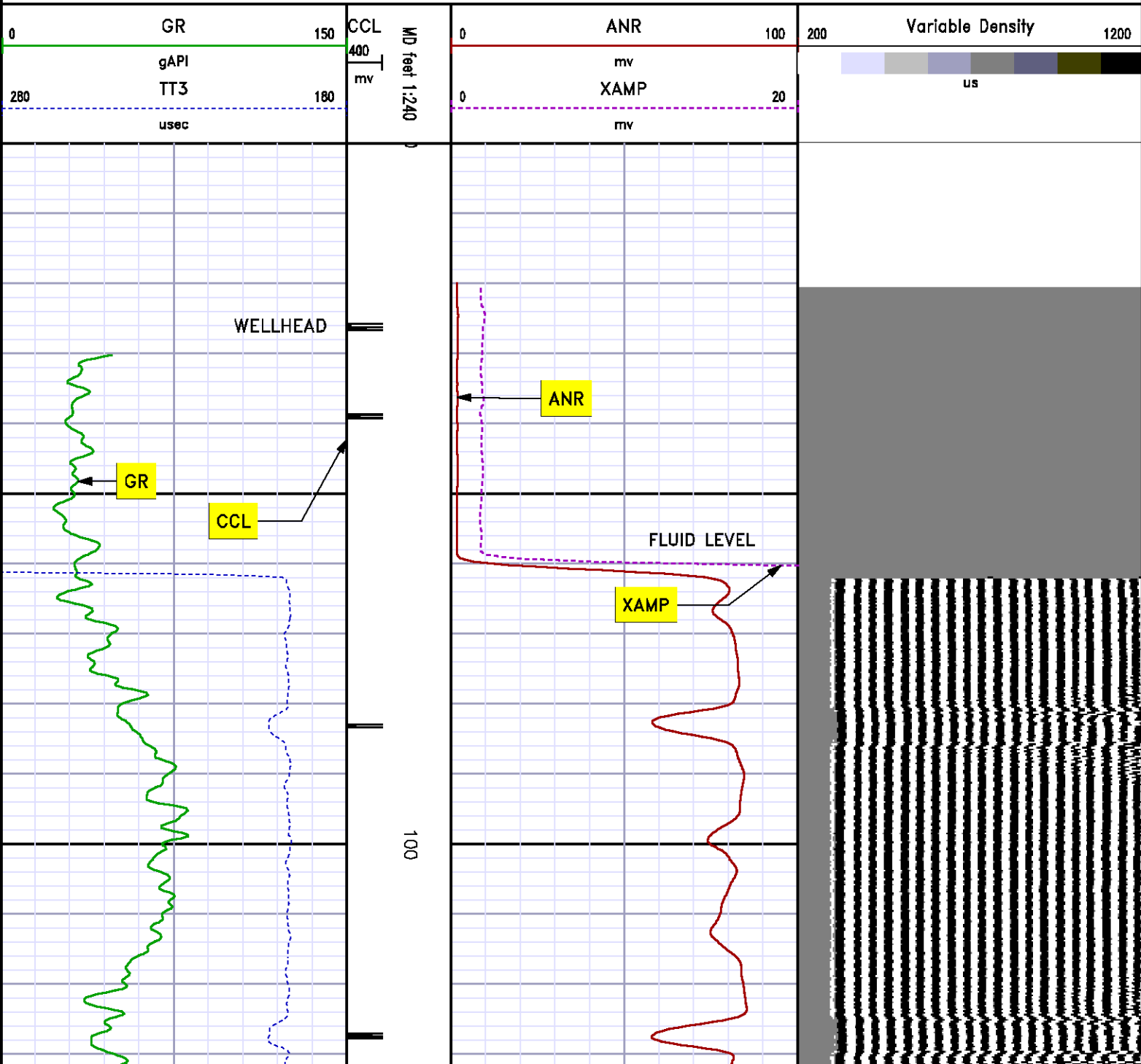
Well : WPX ENERGY GM 424-34

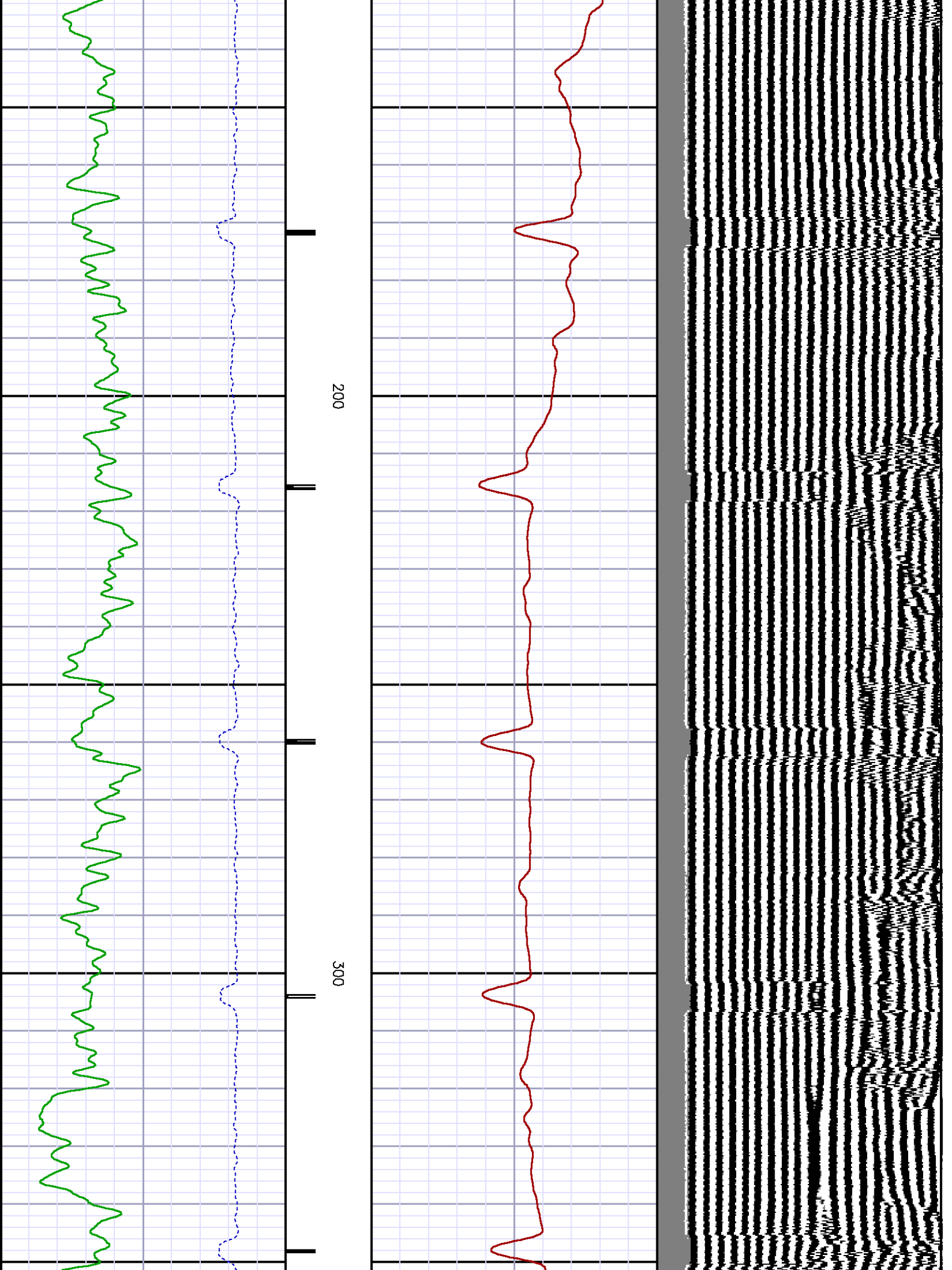
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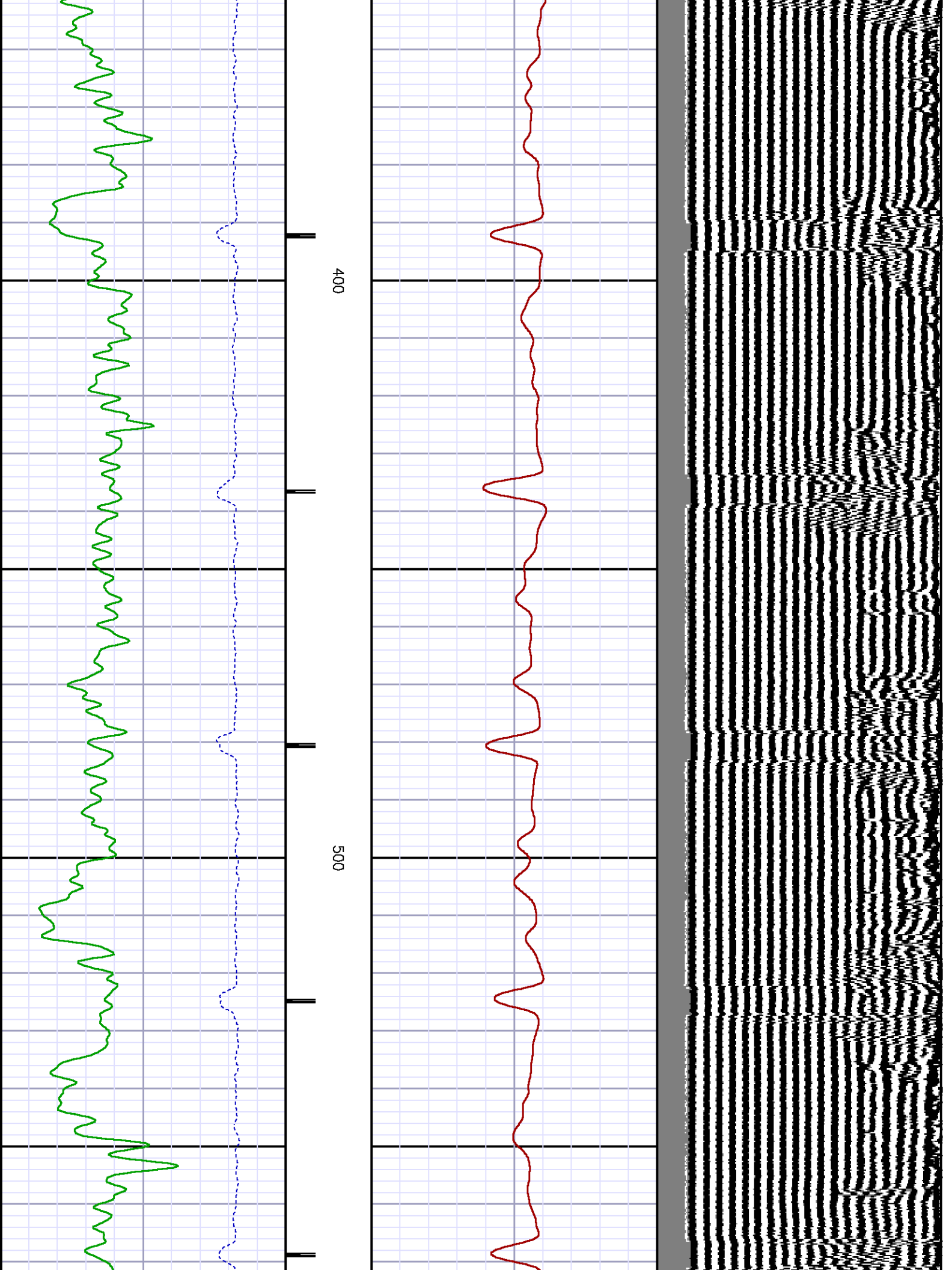
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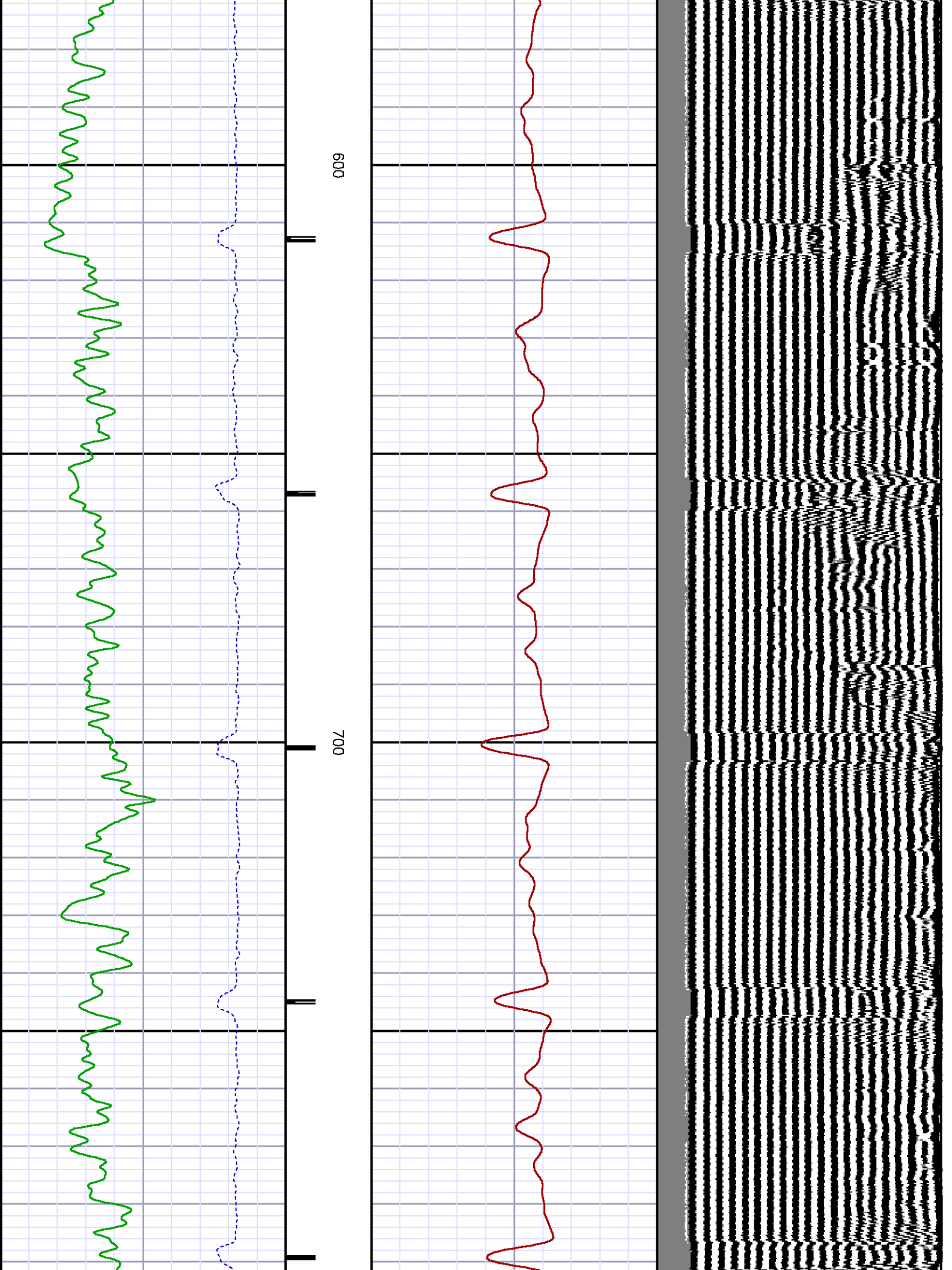
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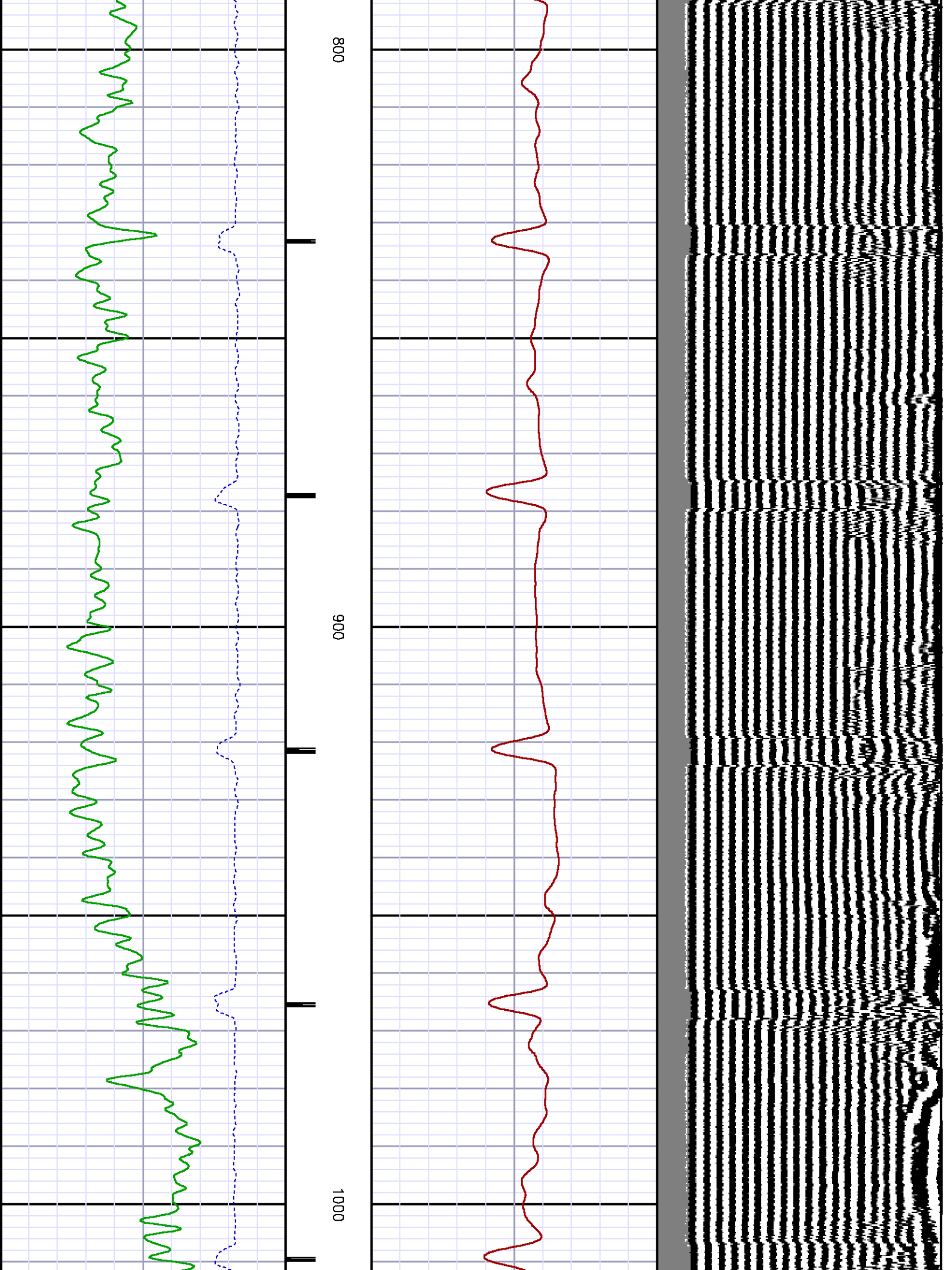
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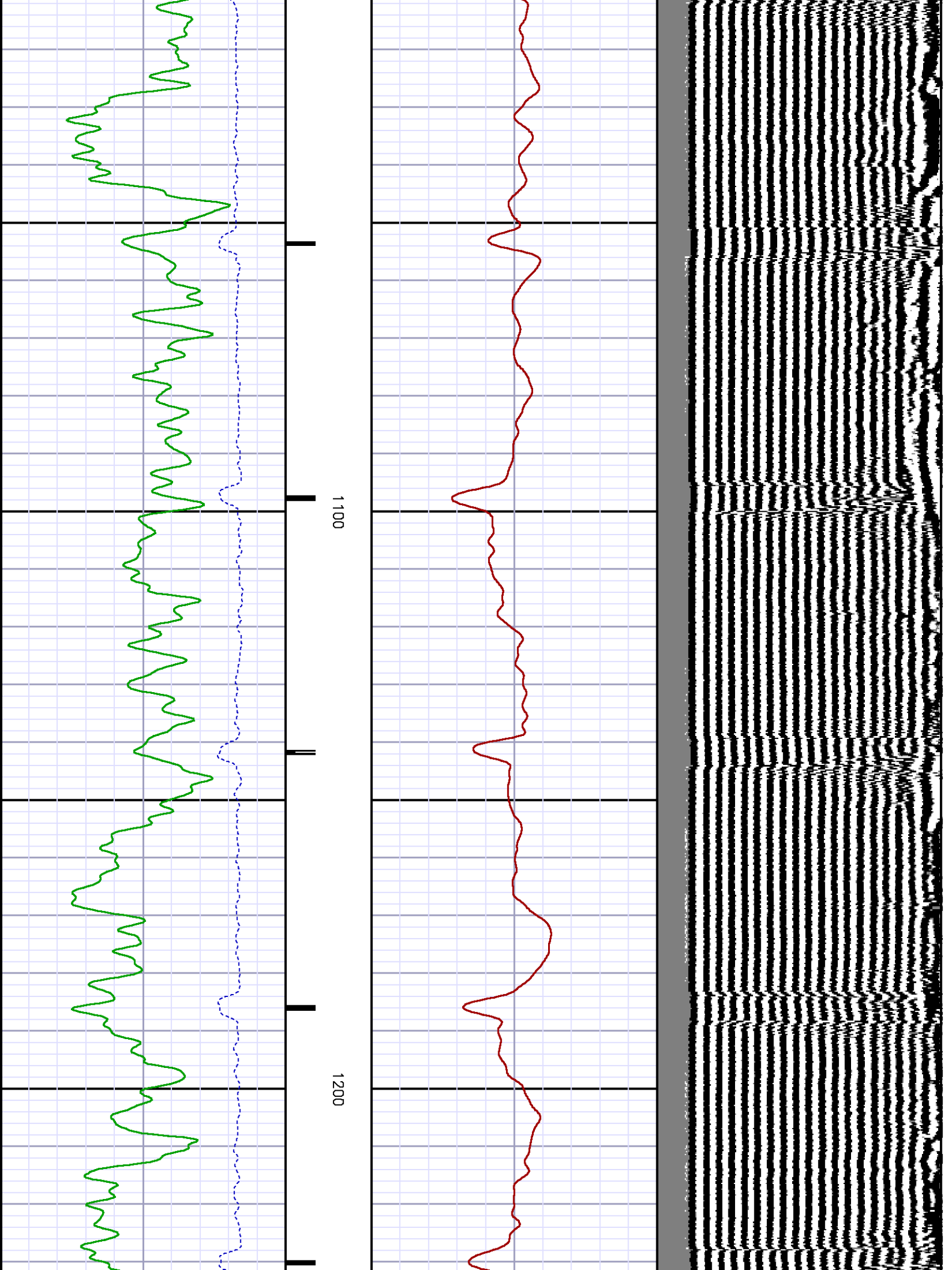


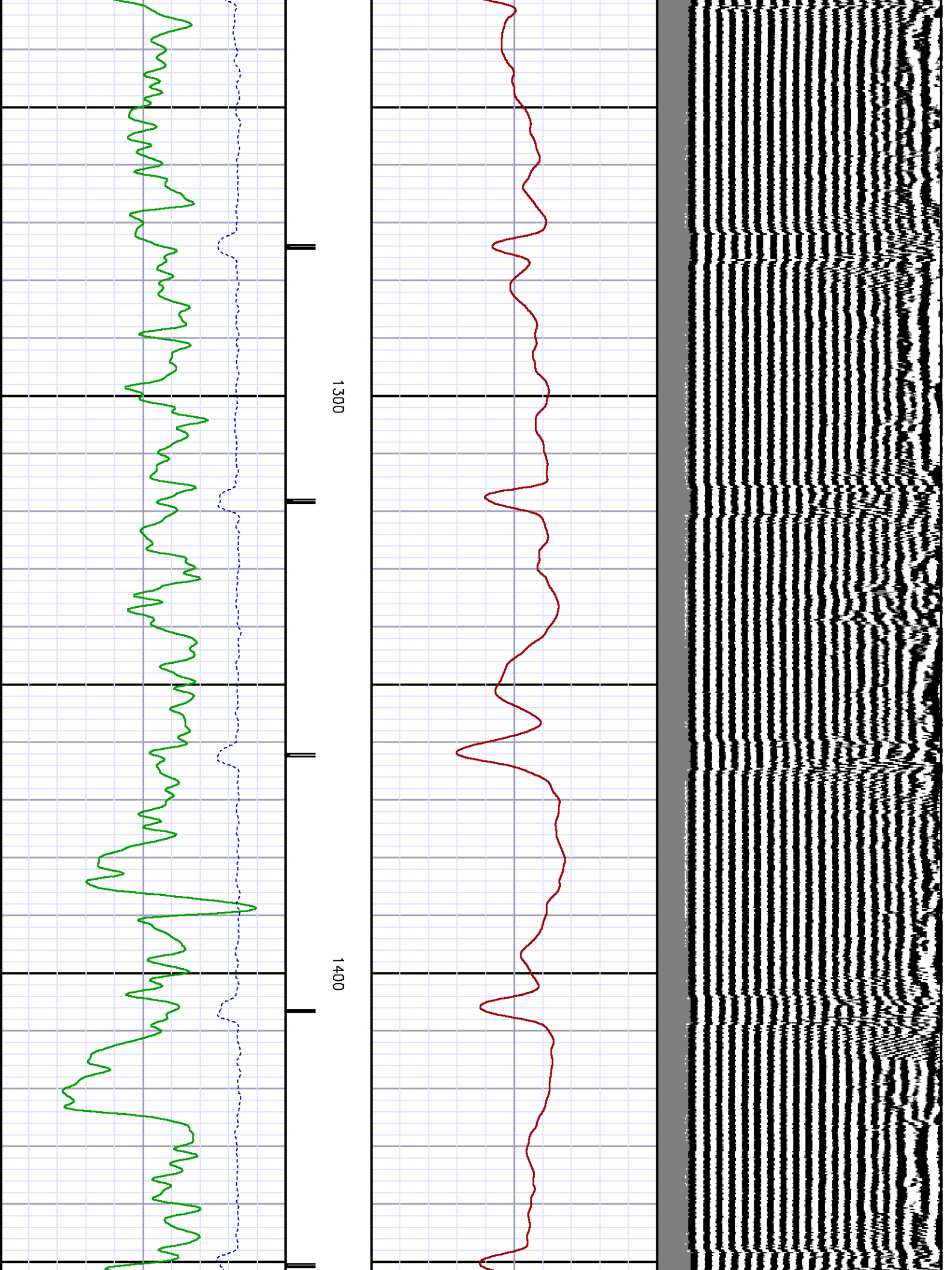


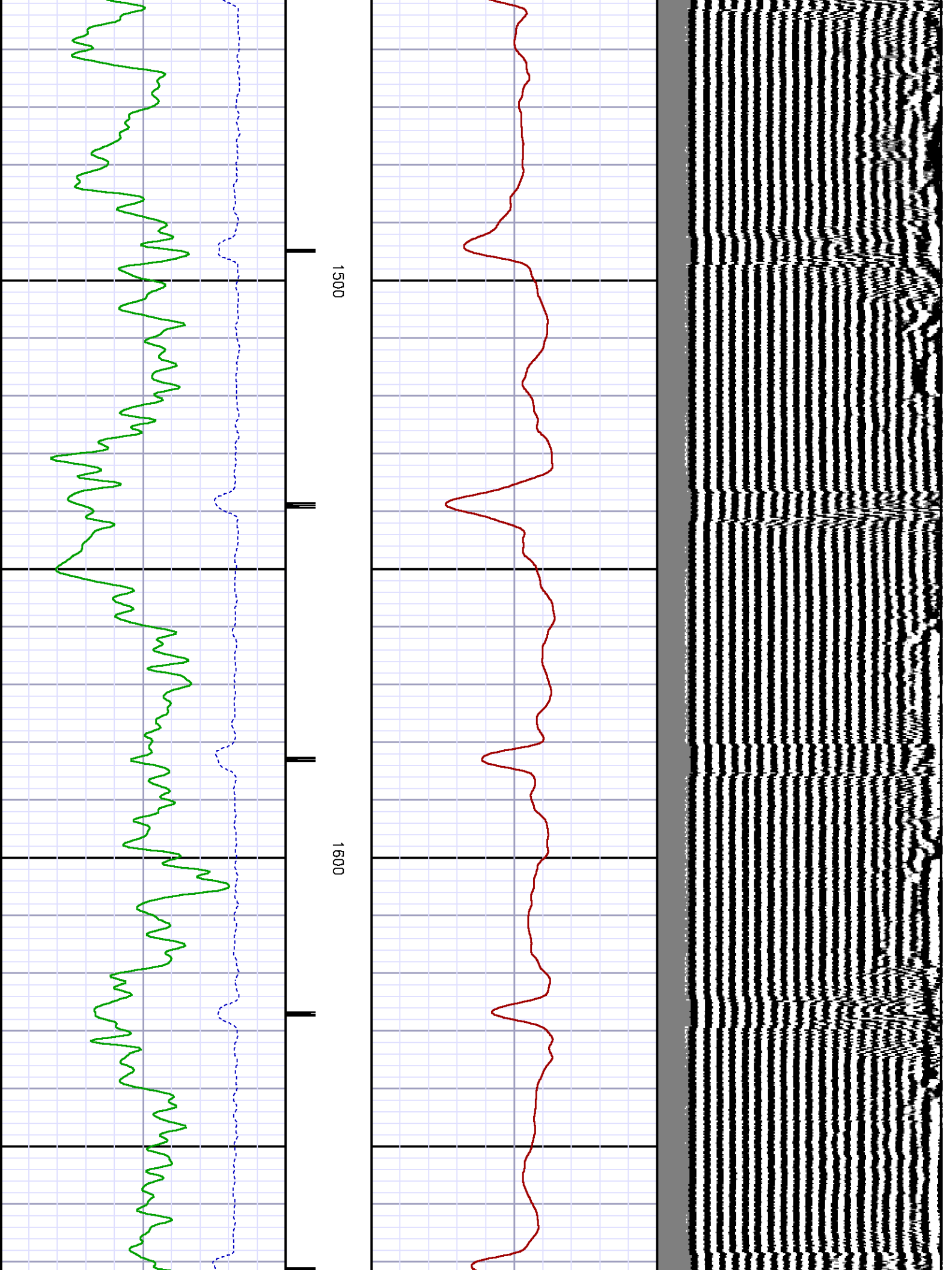


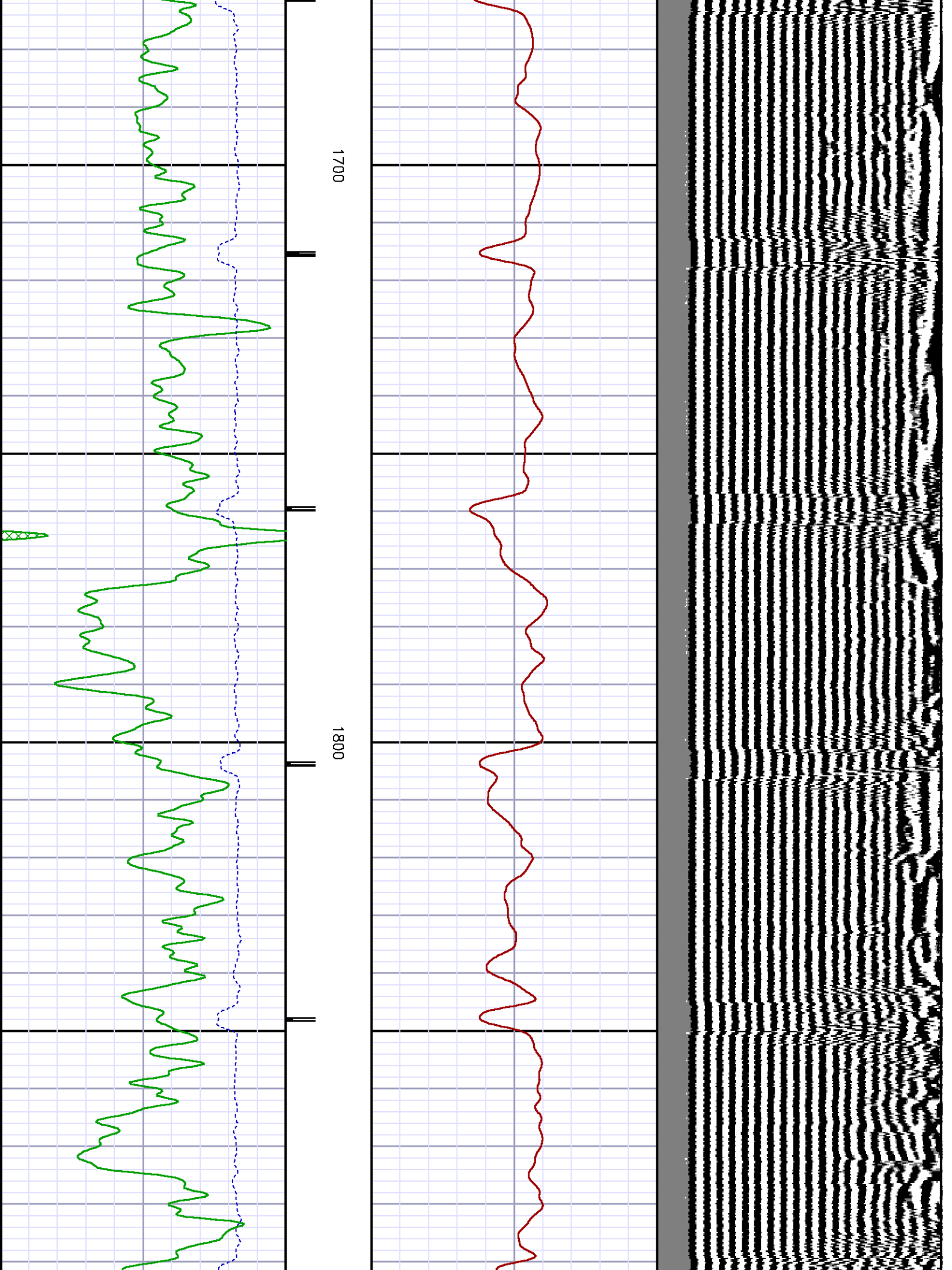


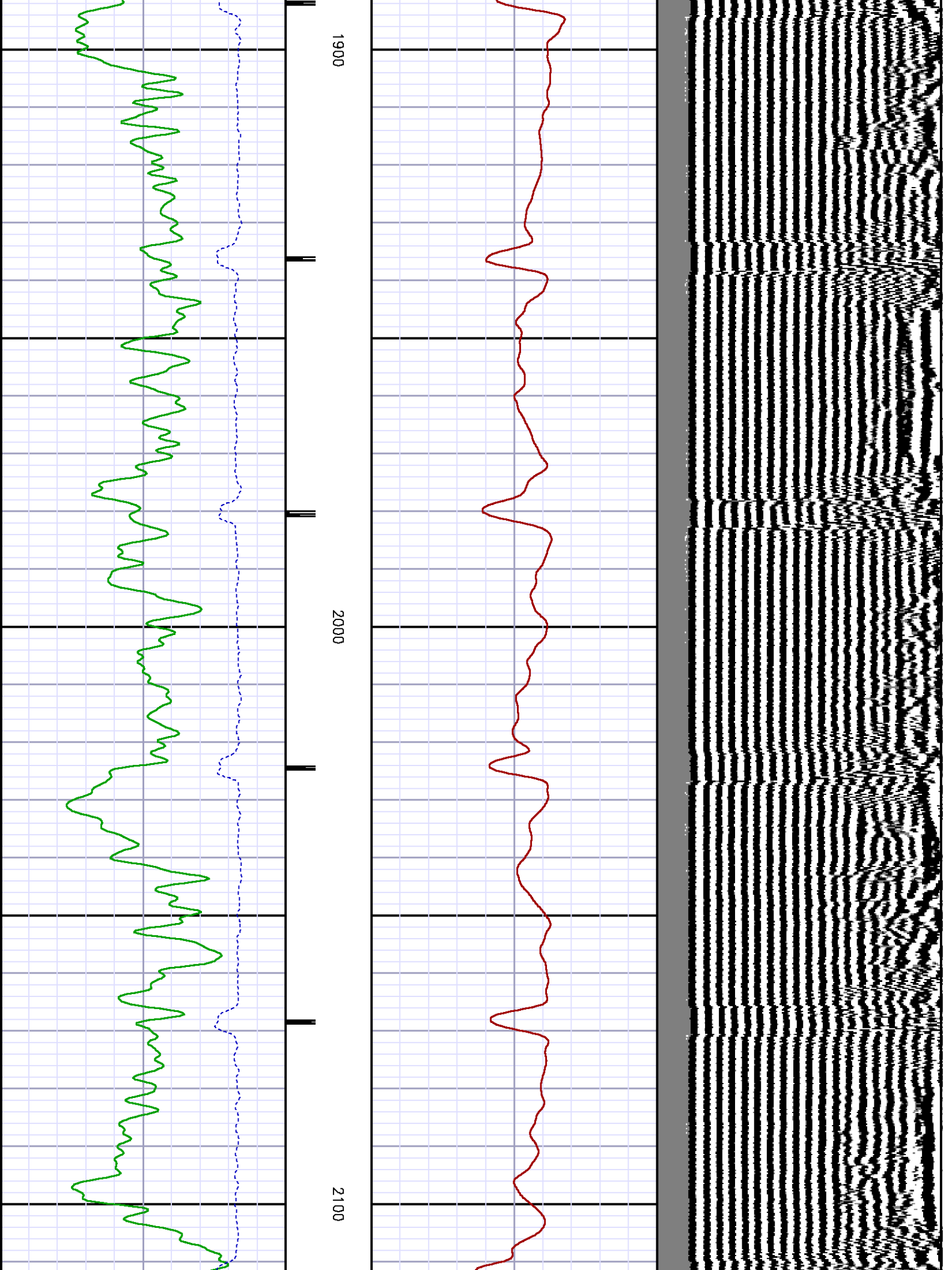


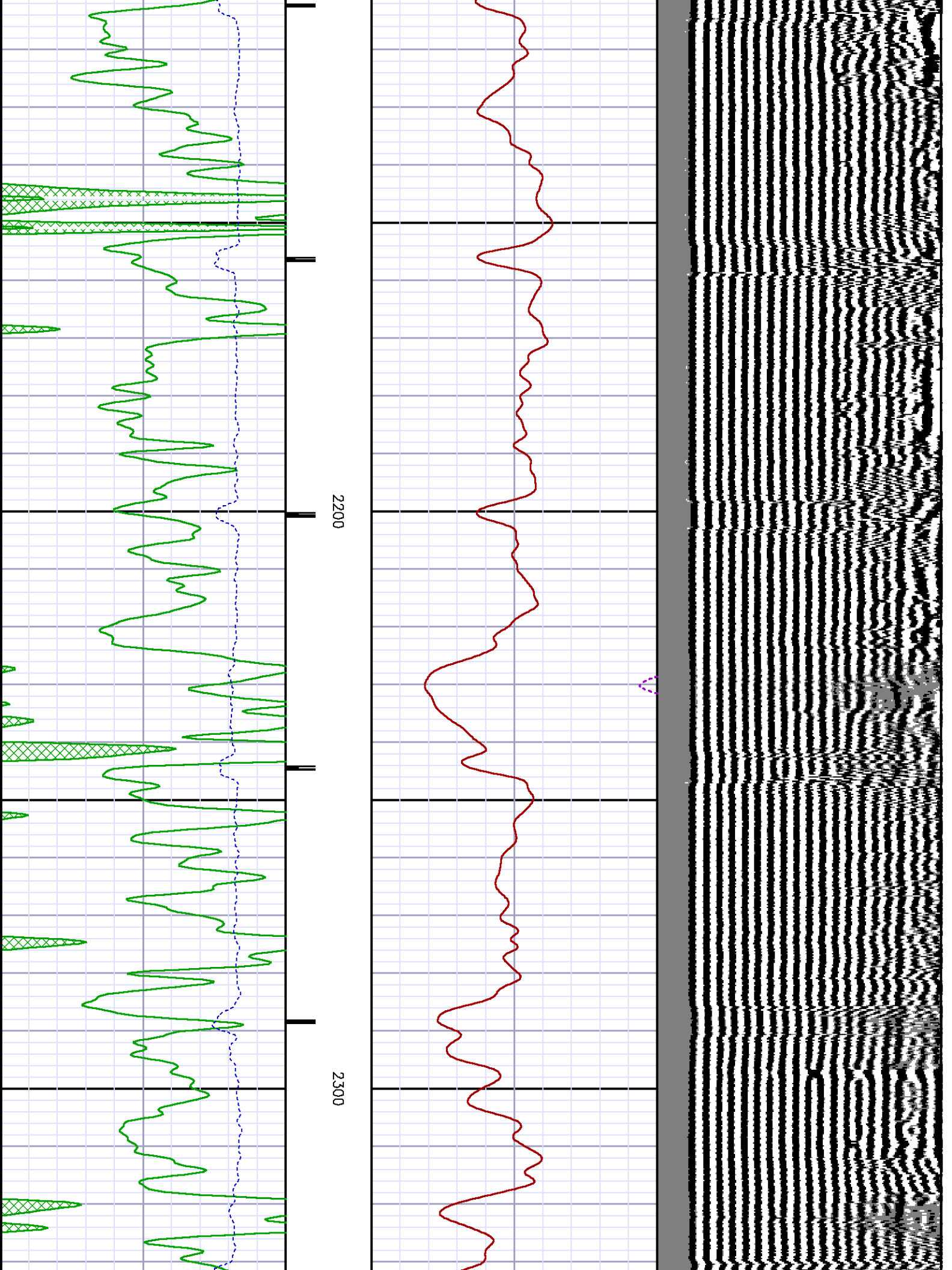


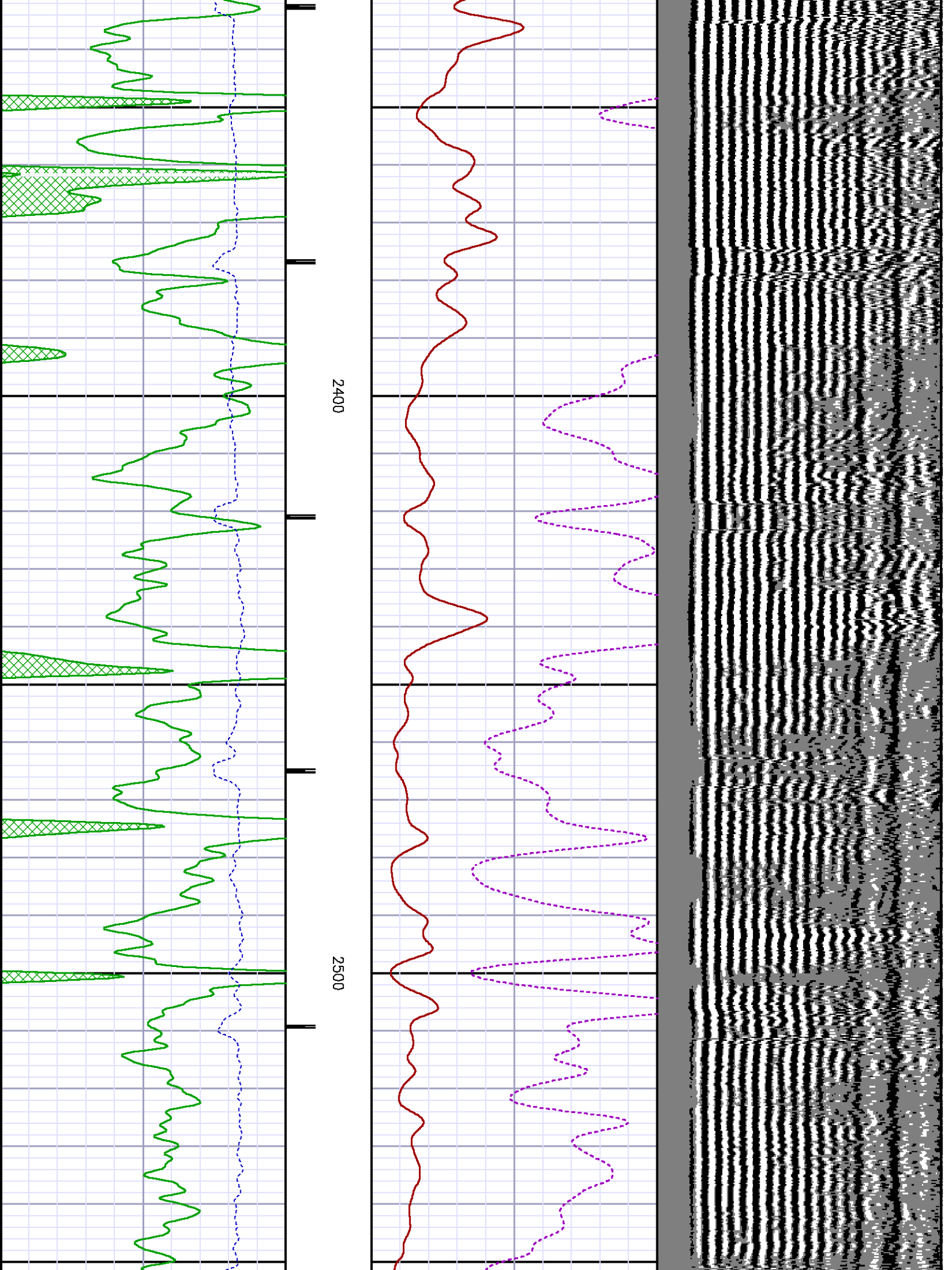


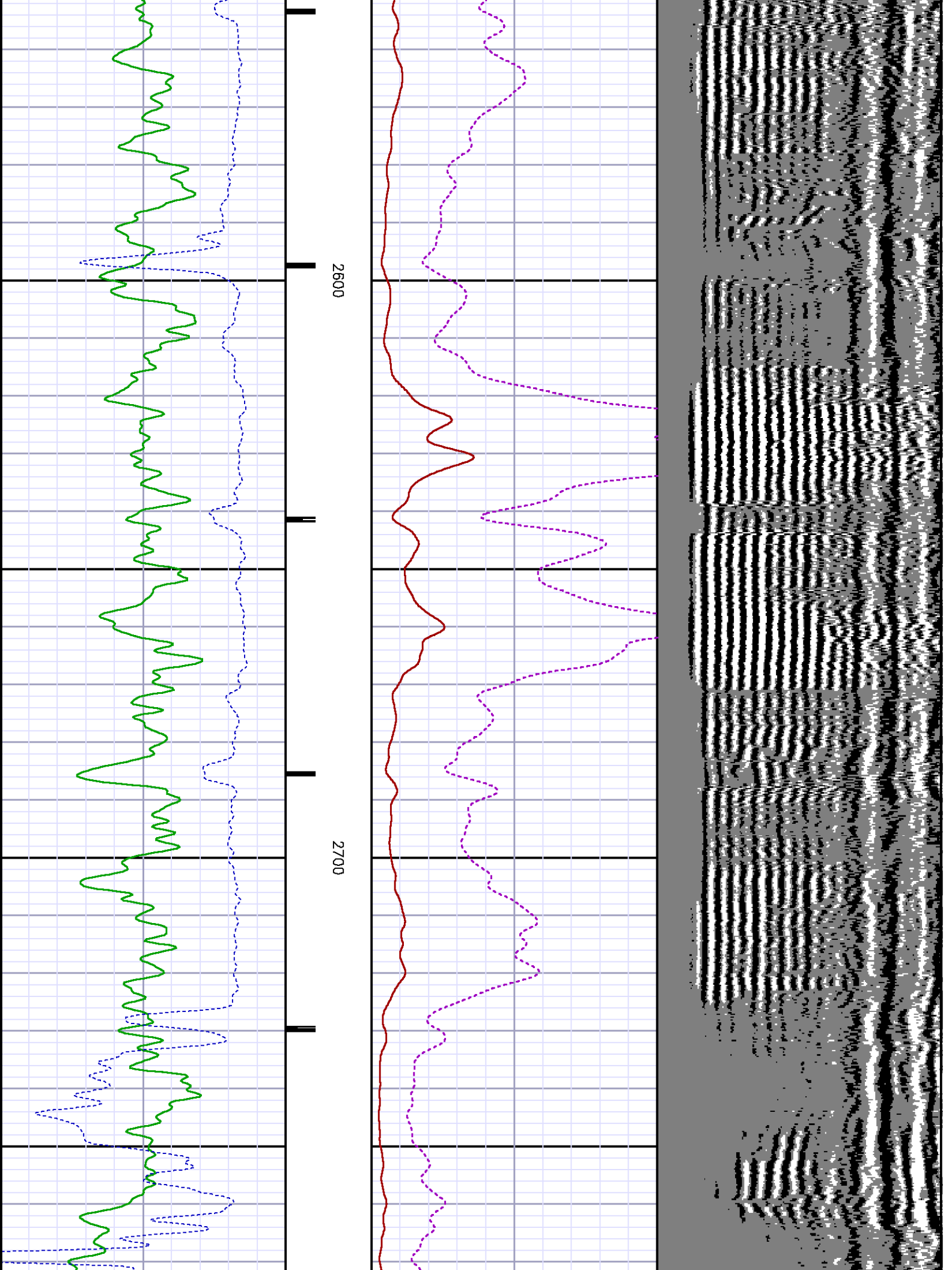


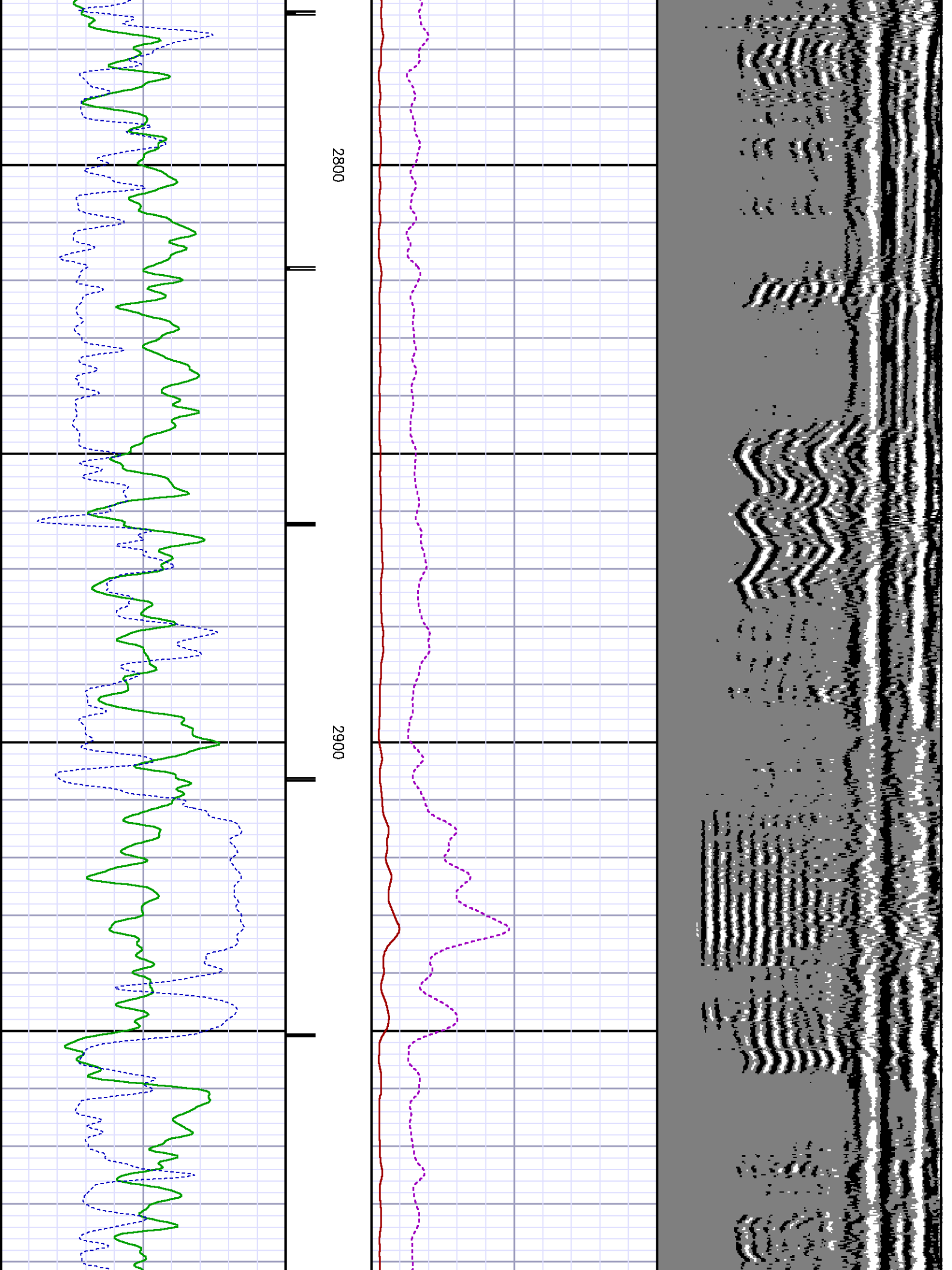


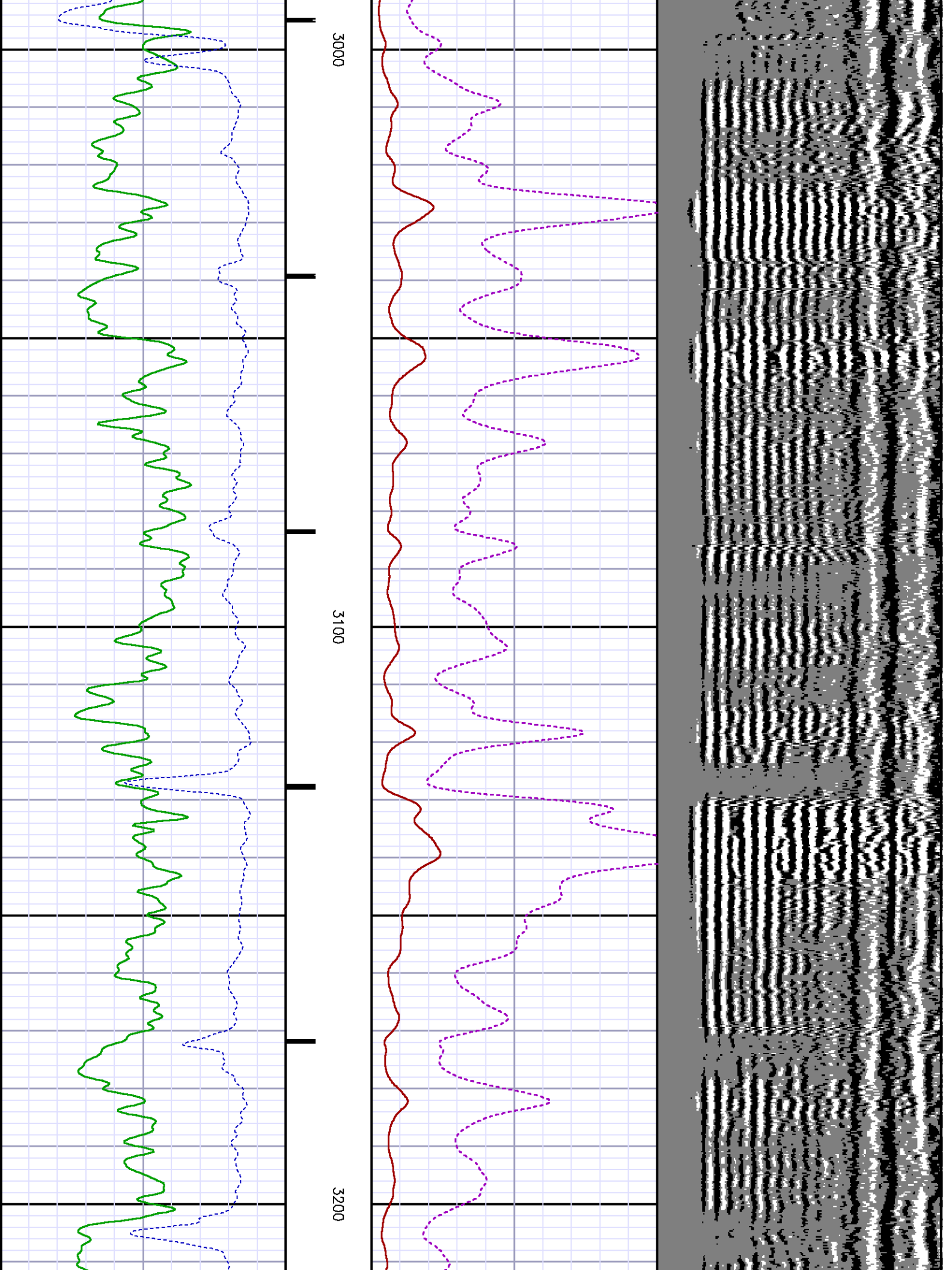


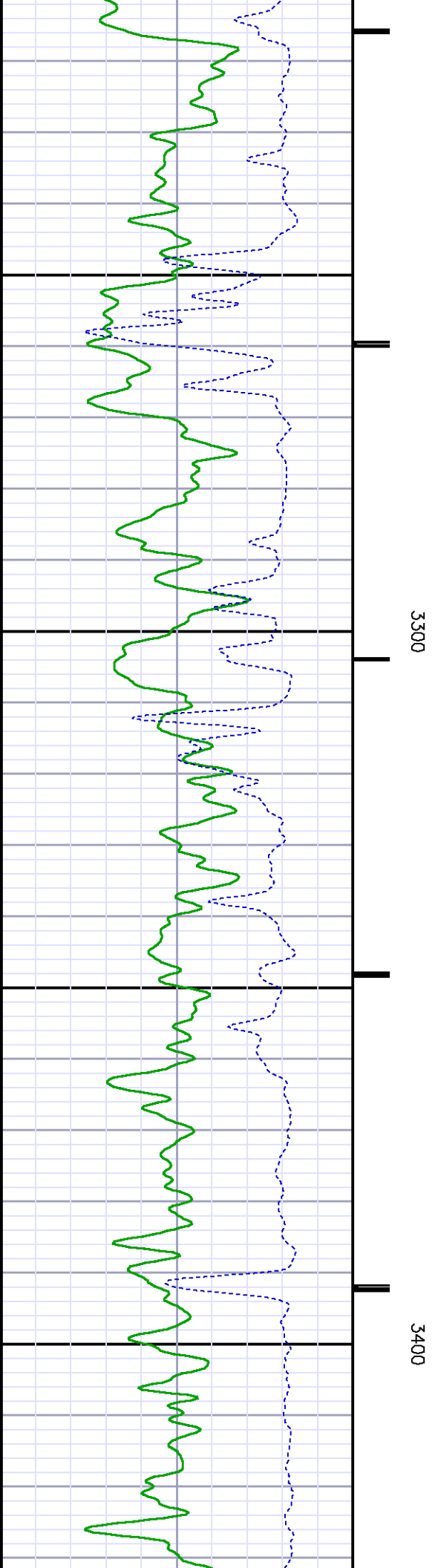
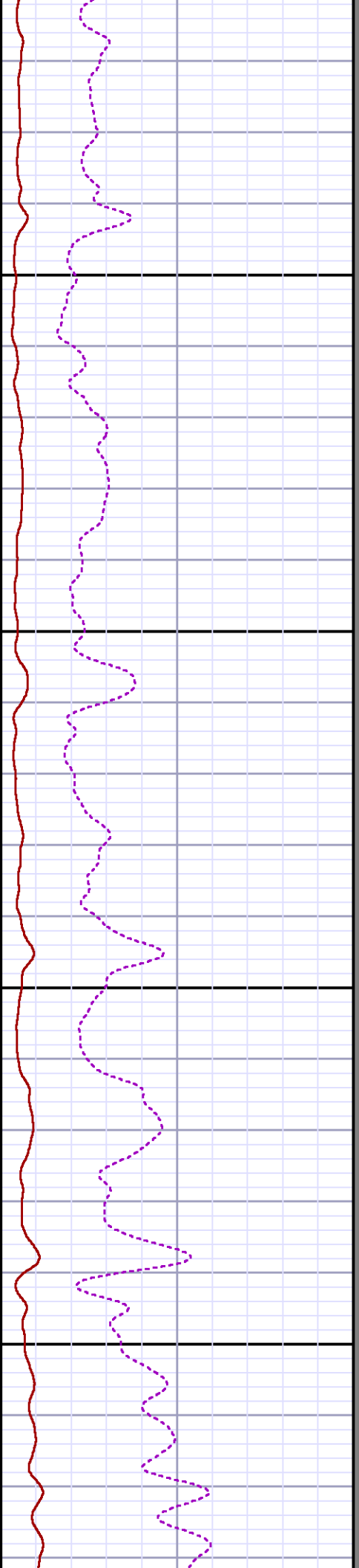
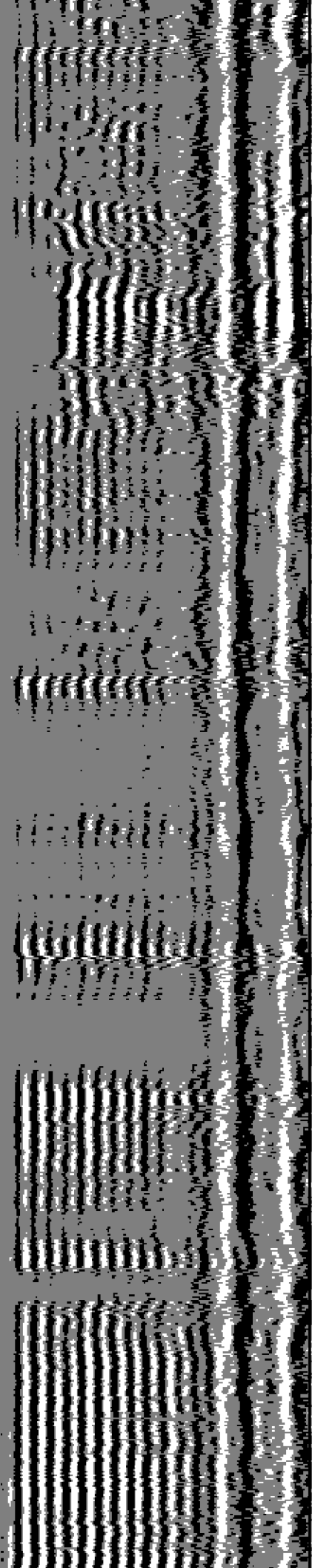


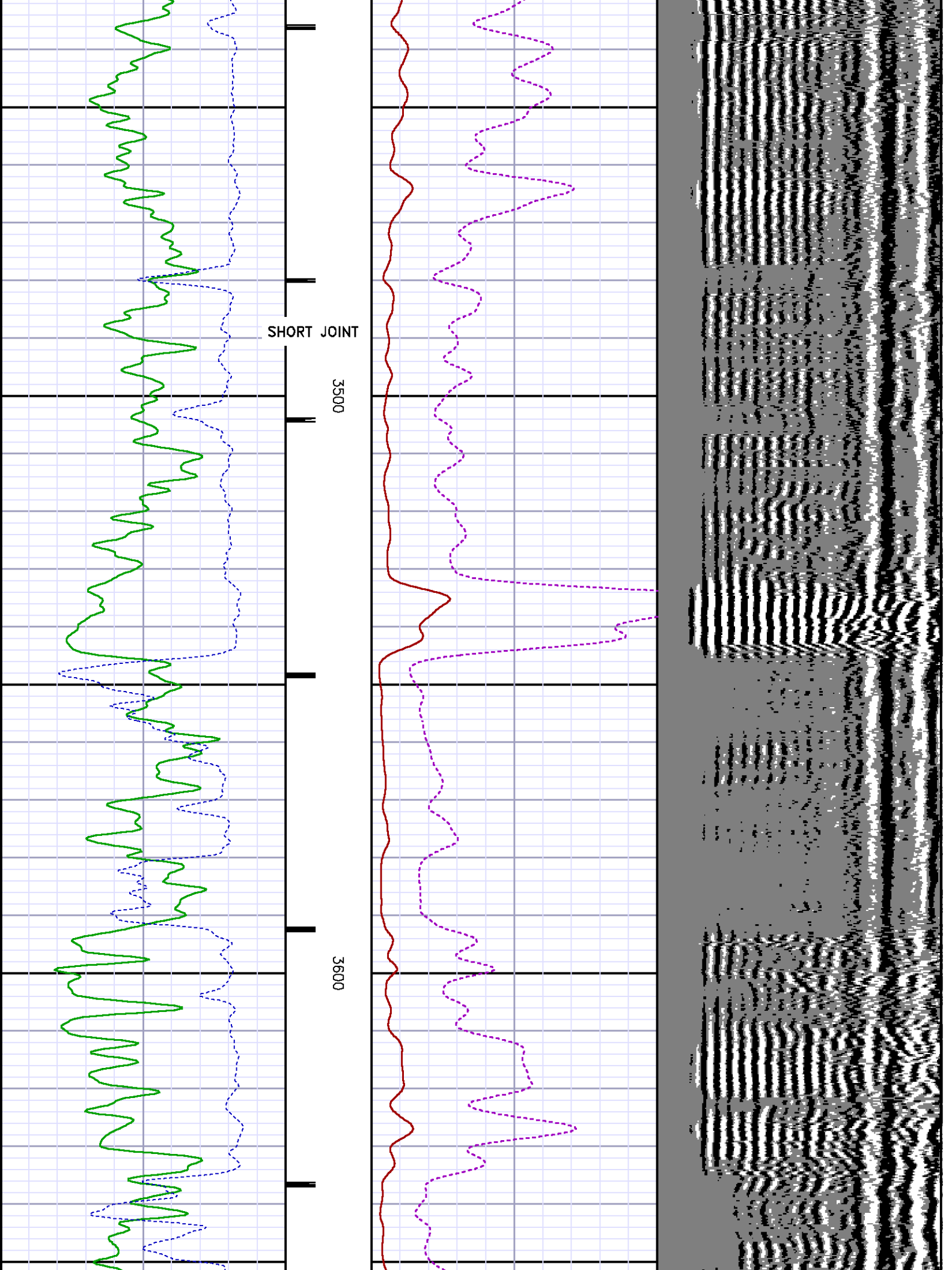


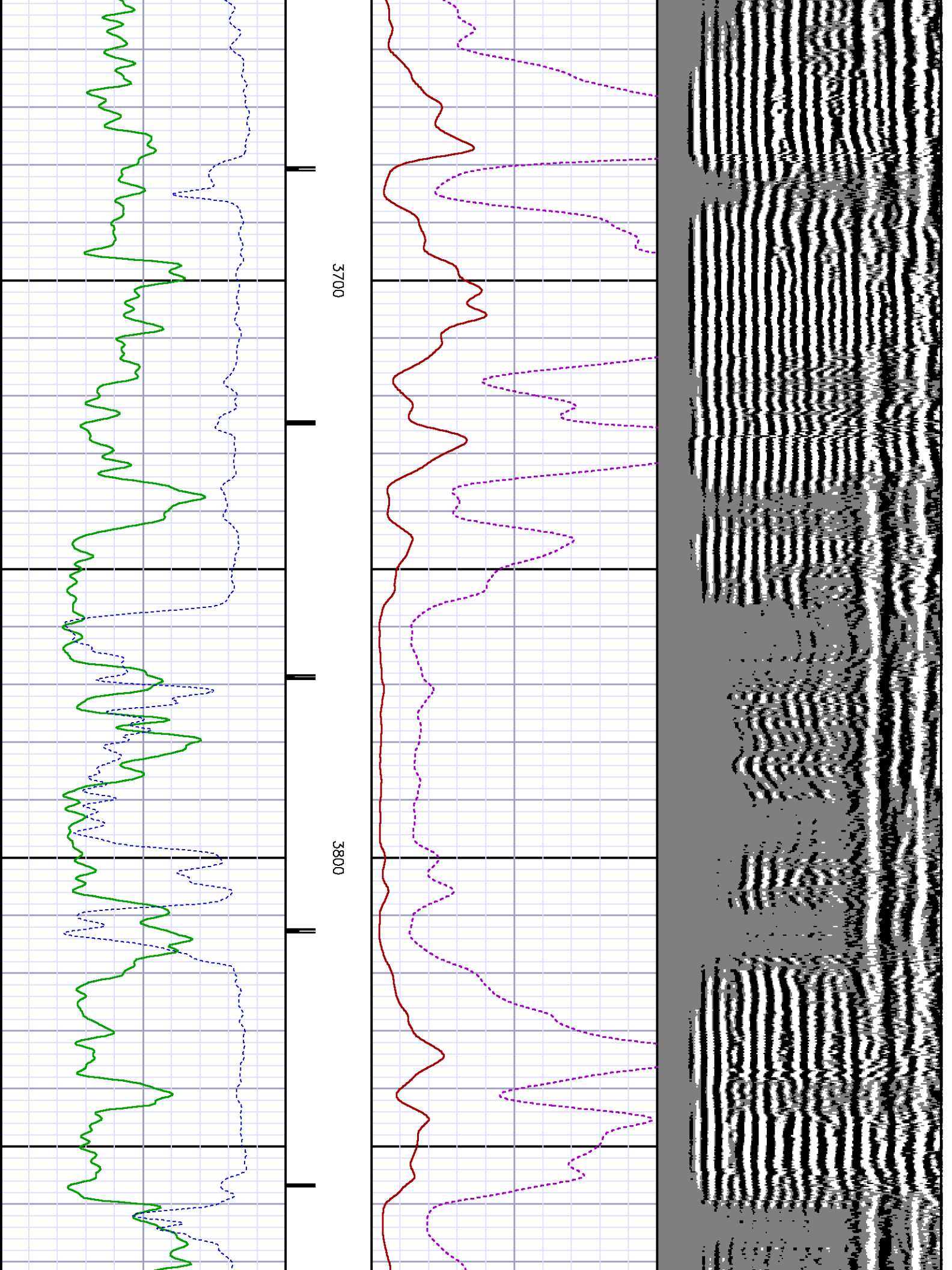


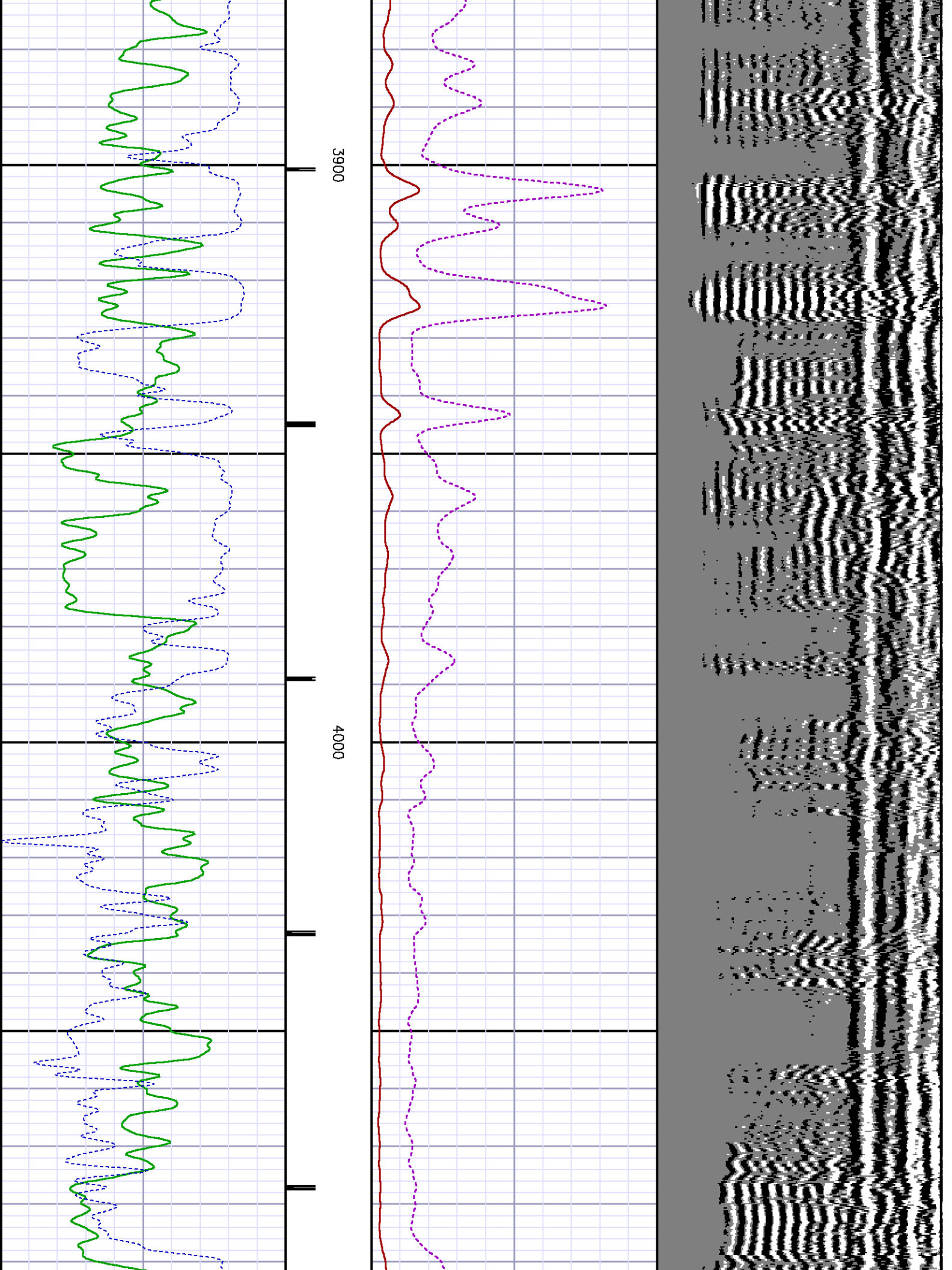


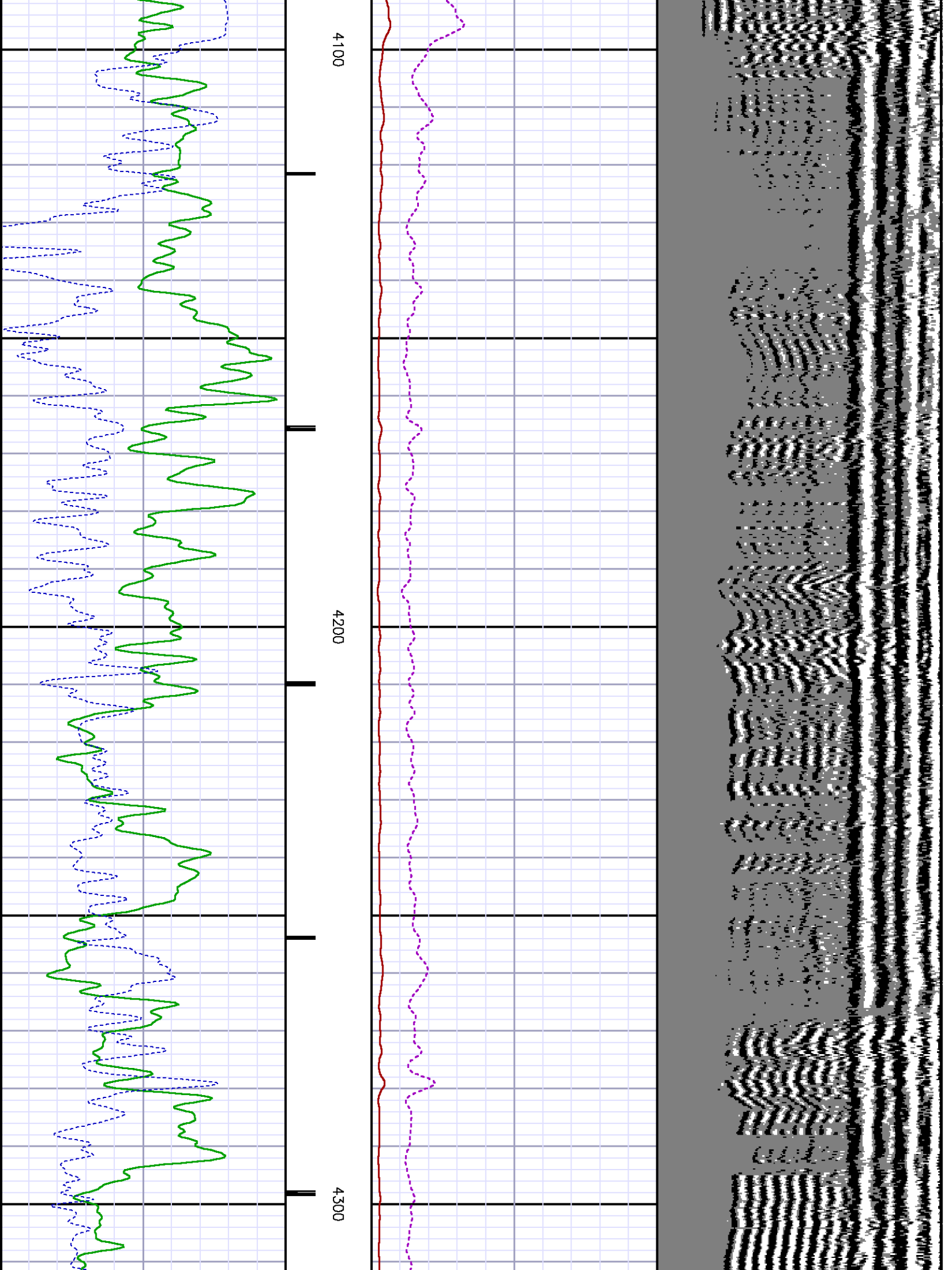


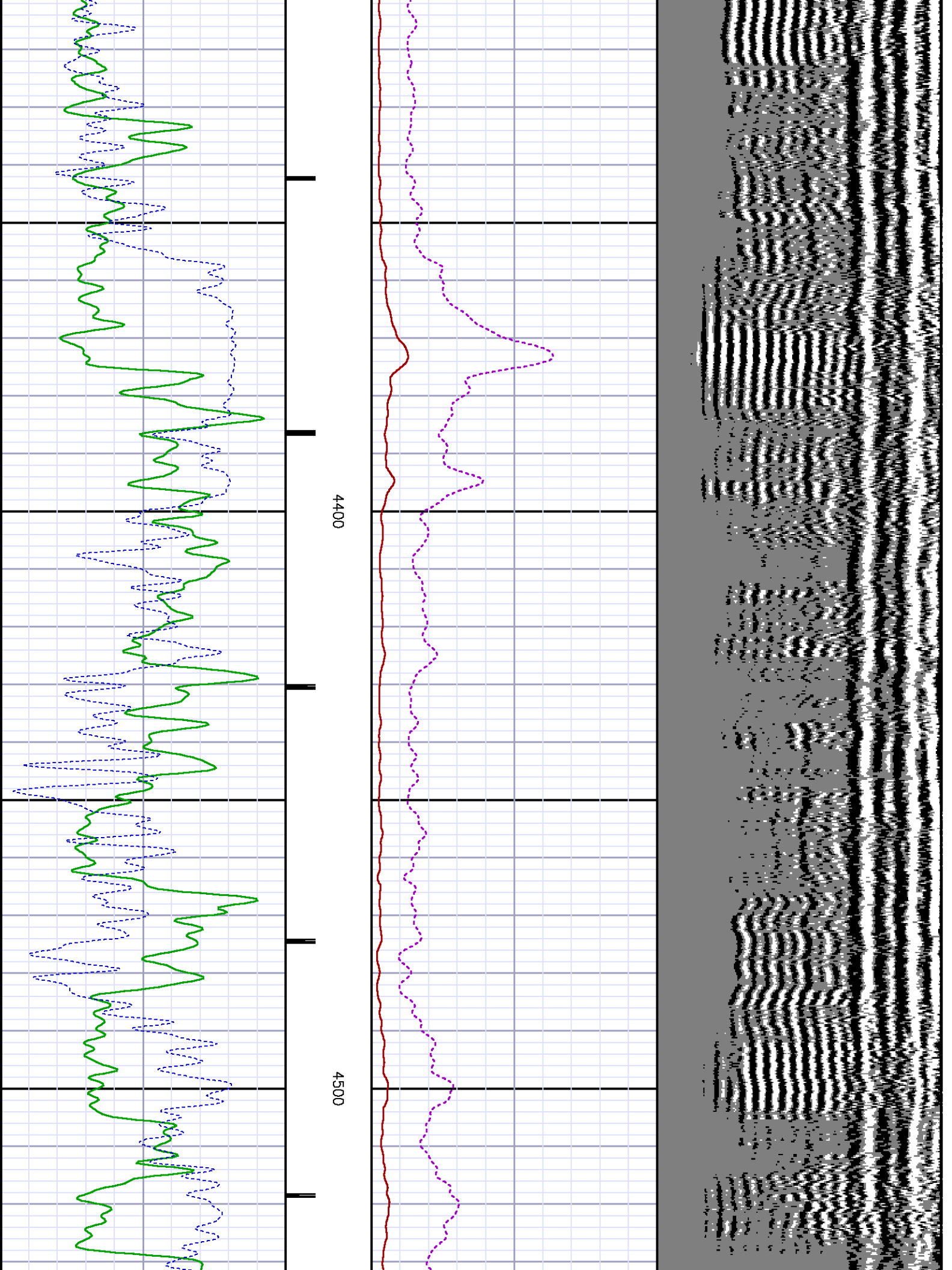


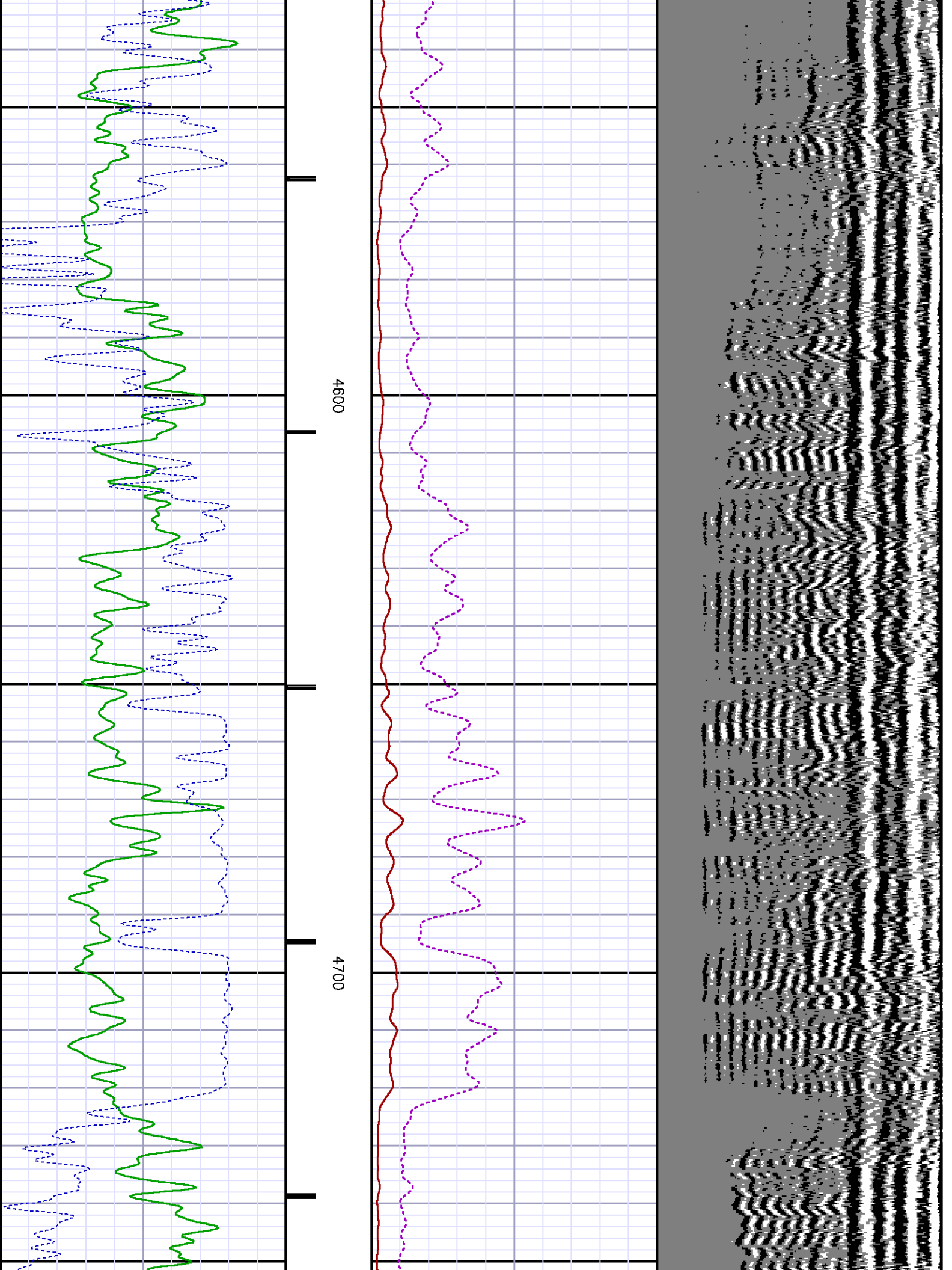


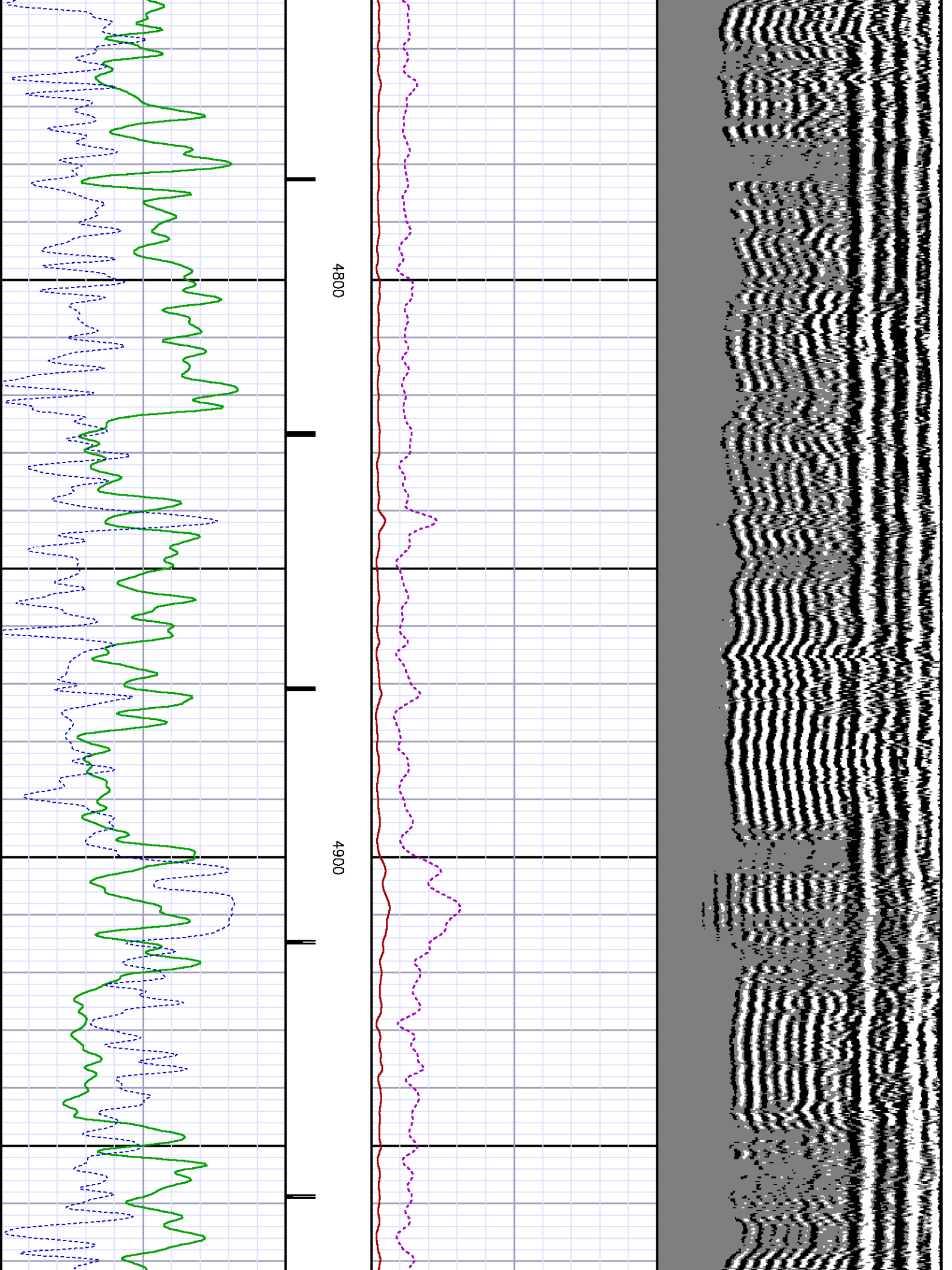


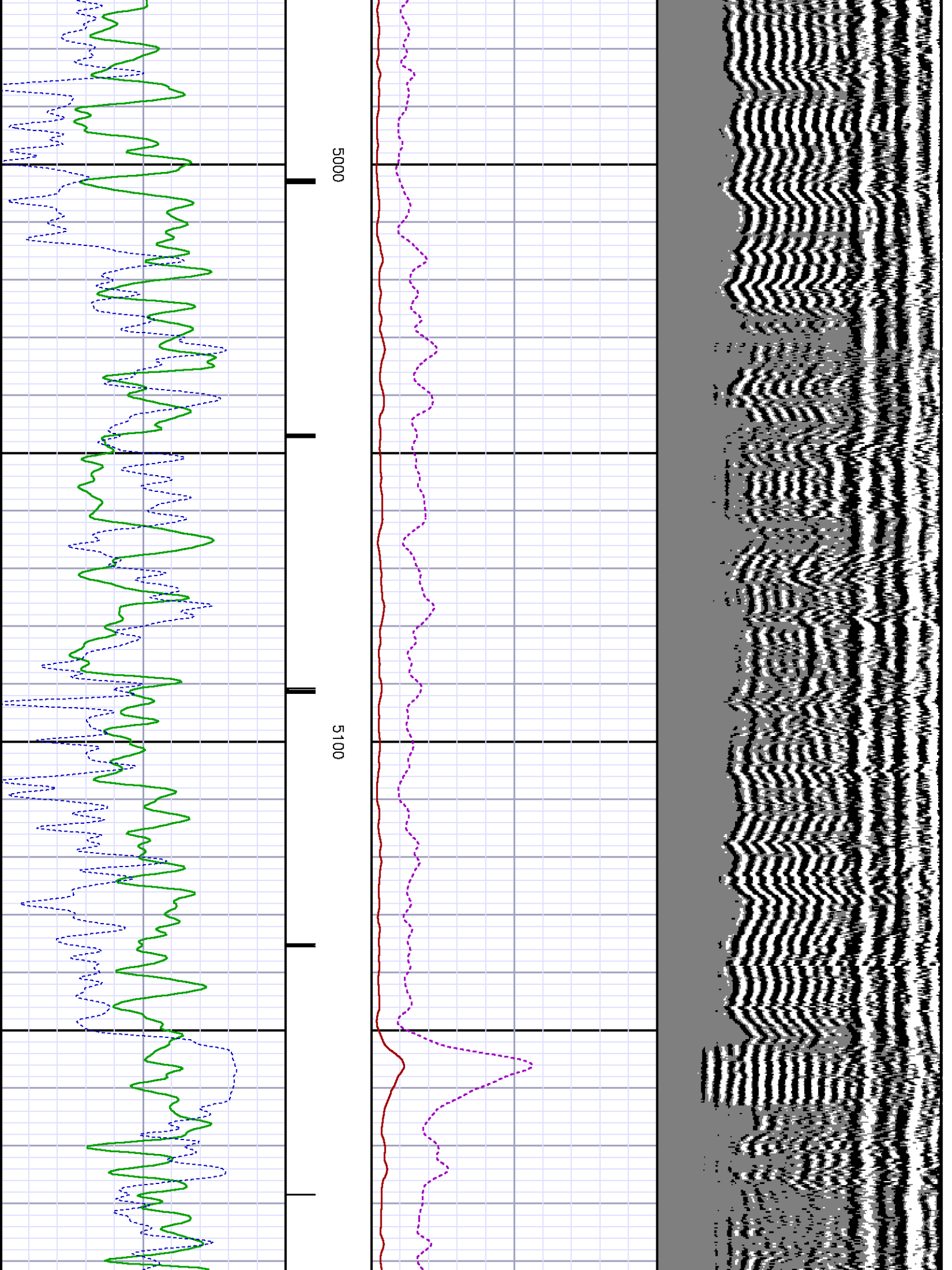


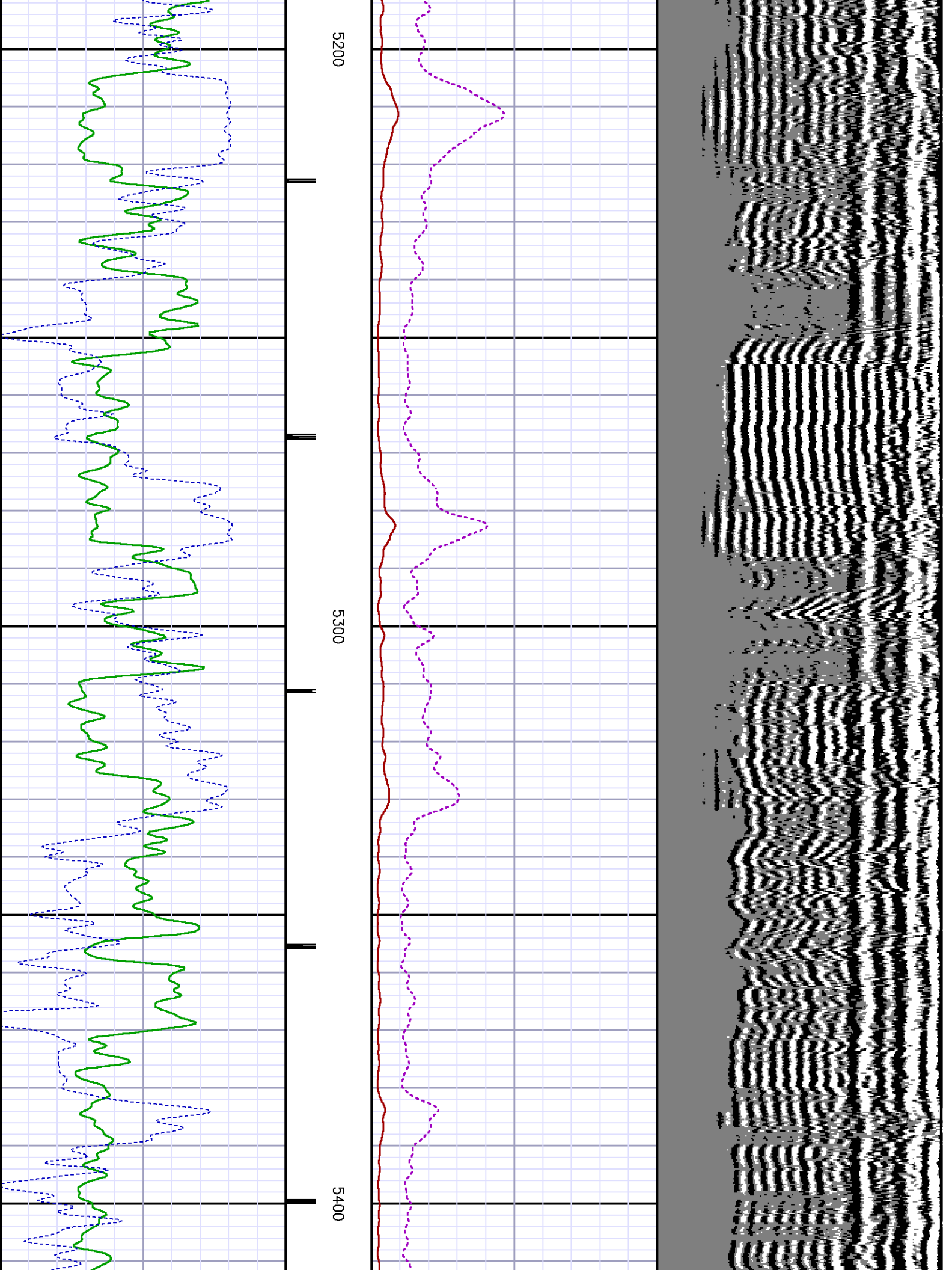


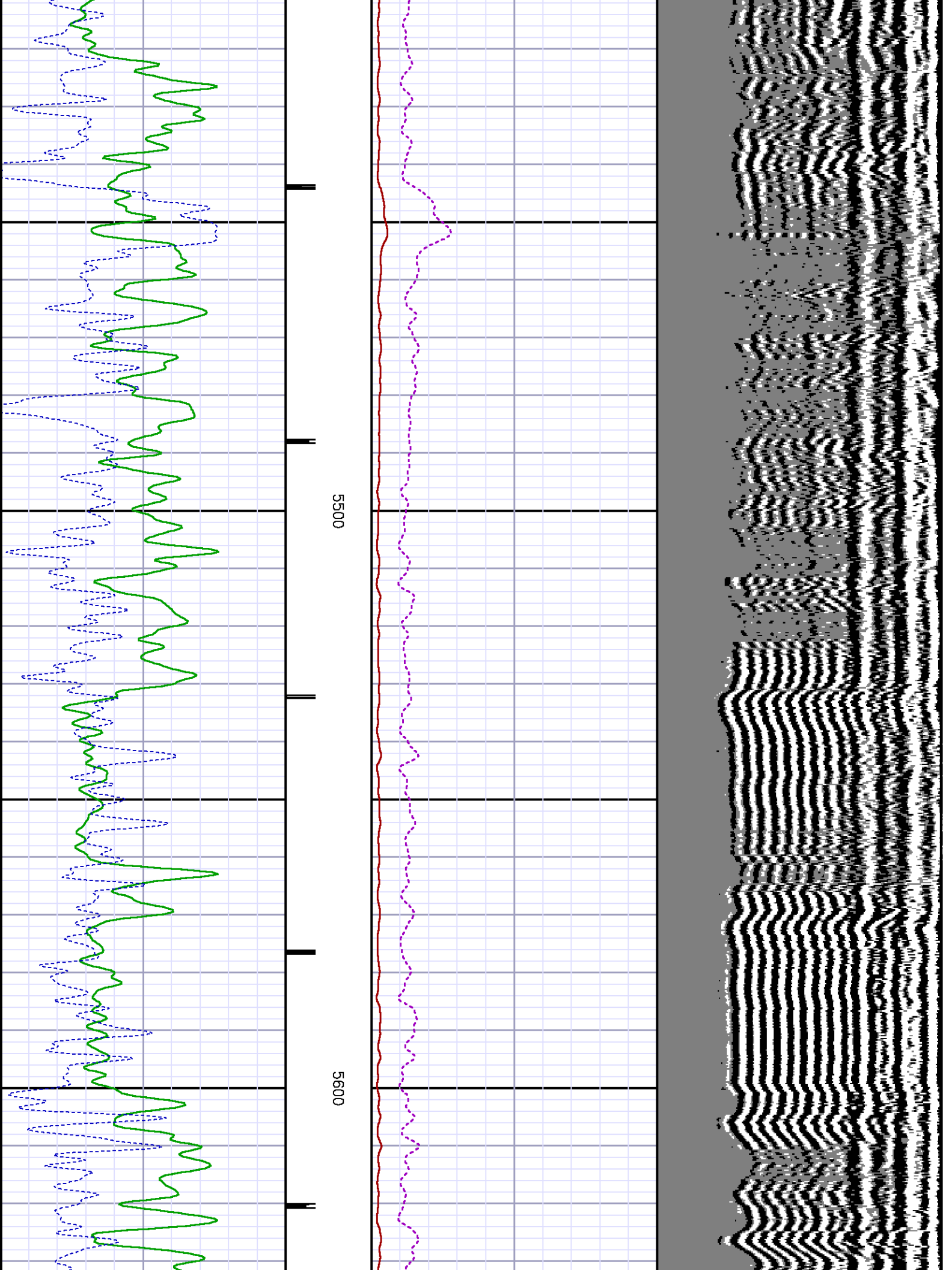


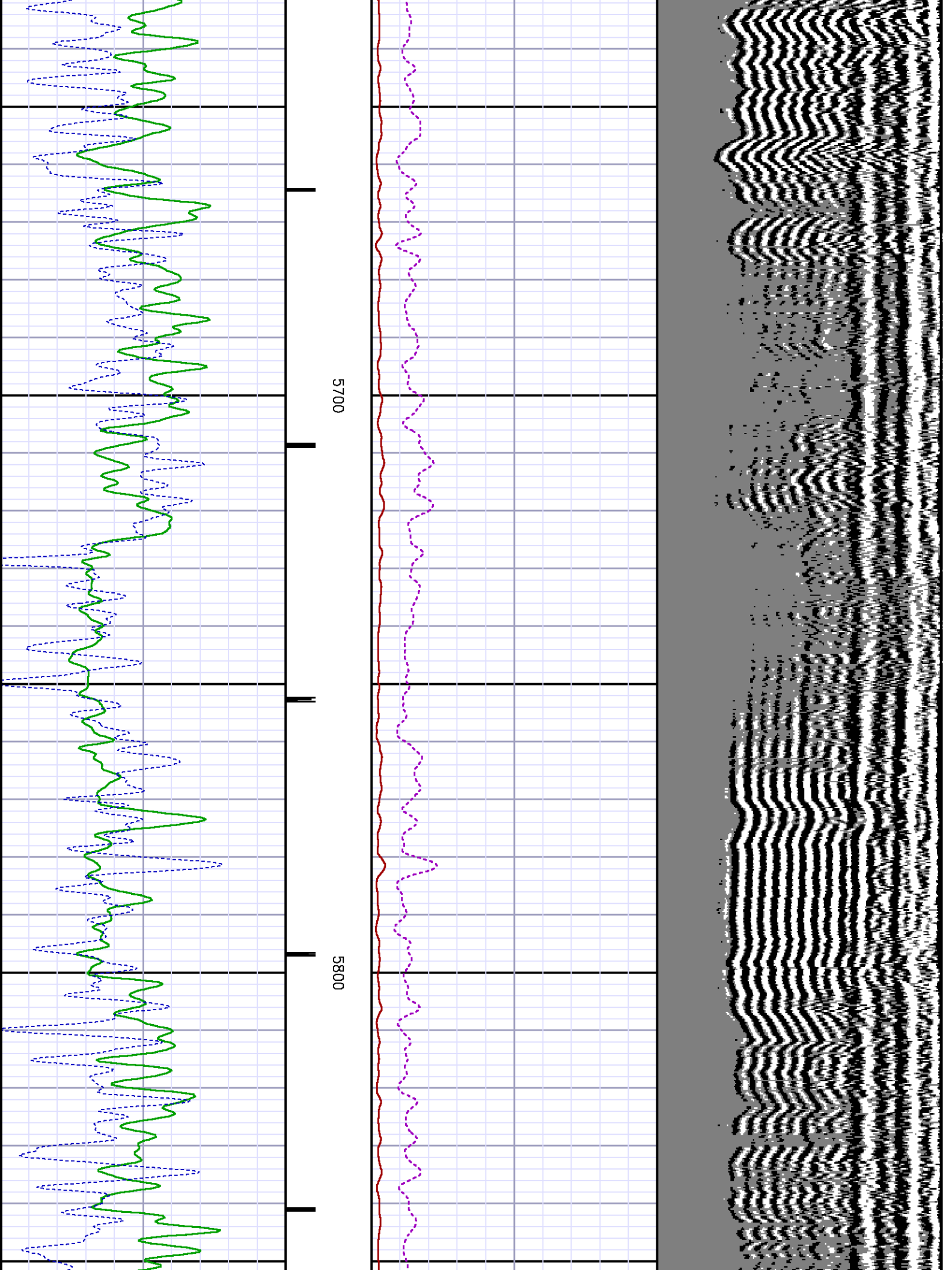


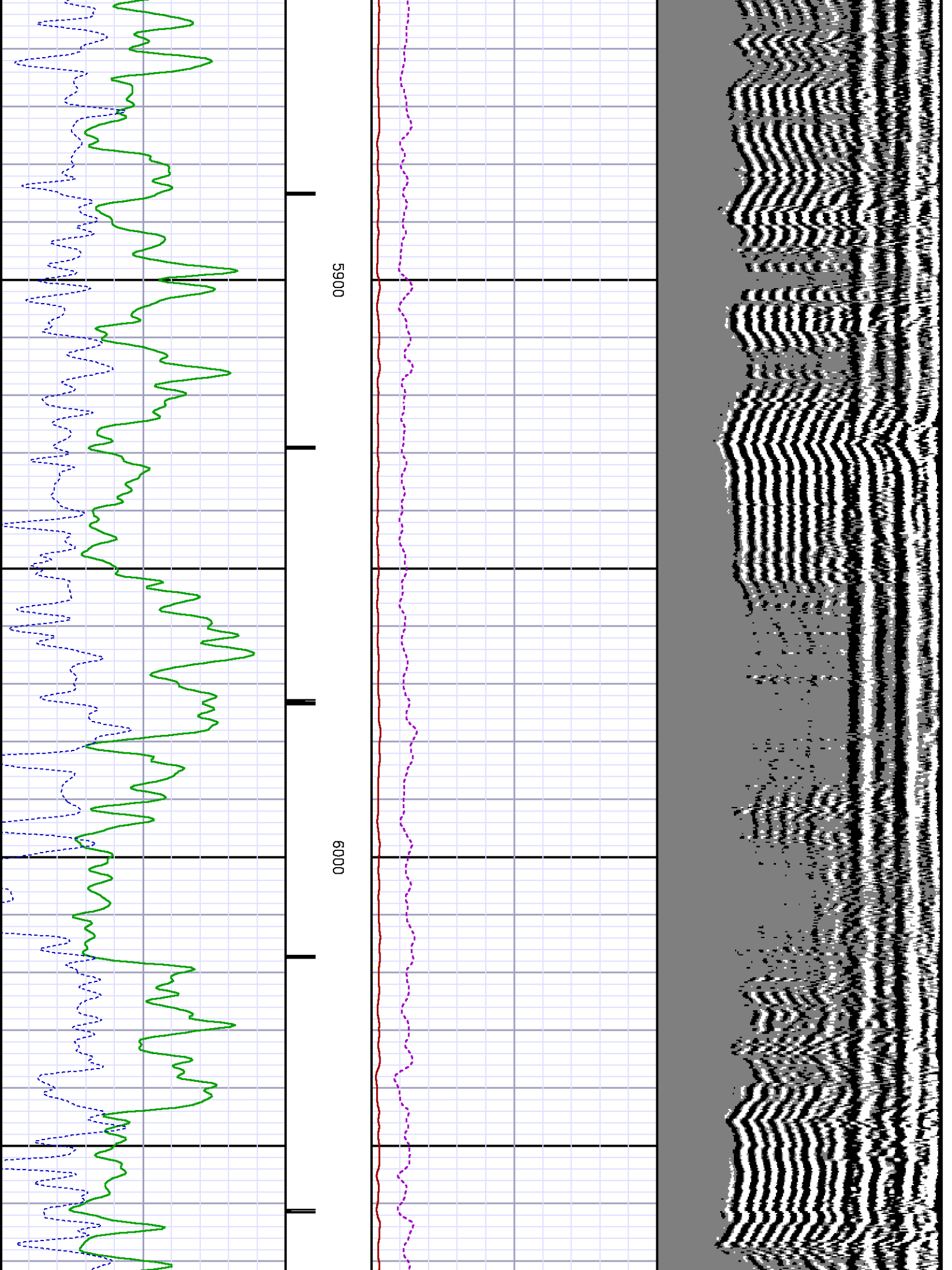


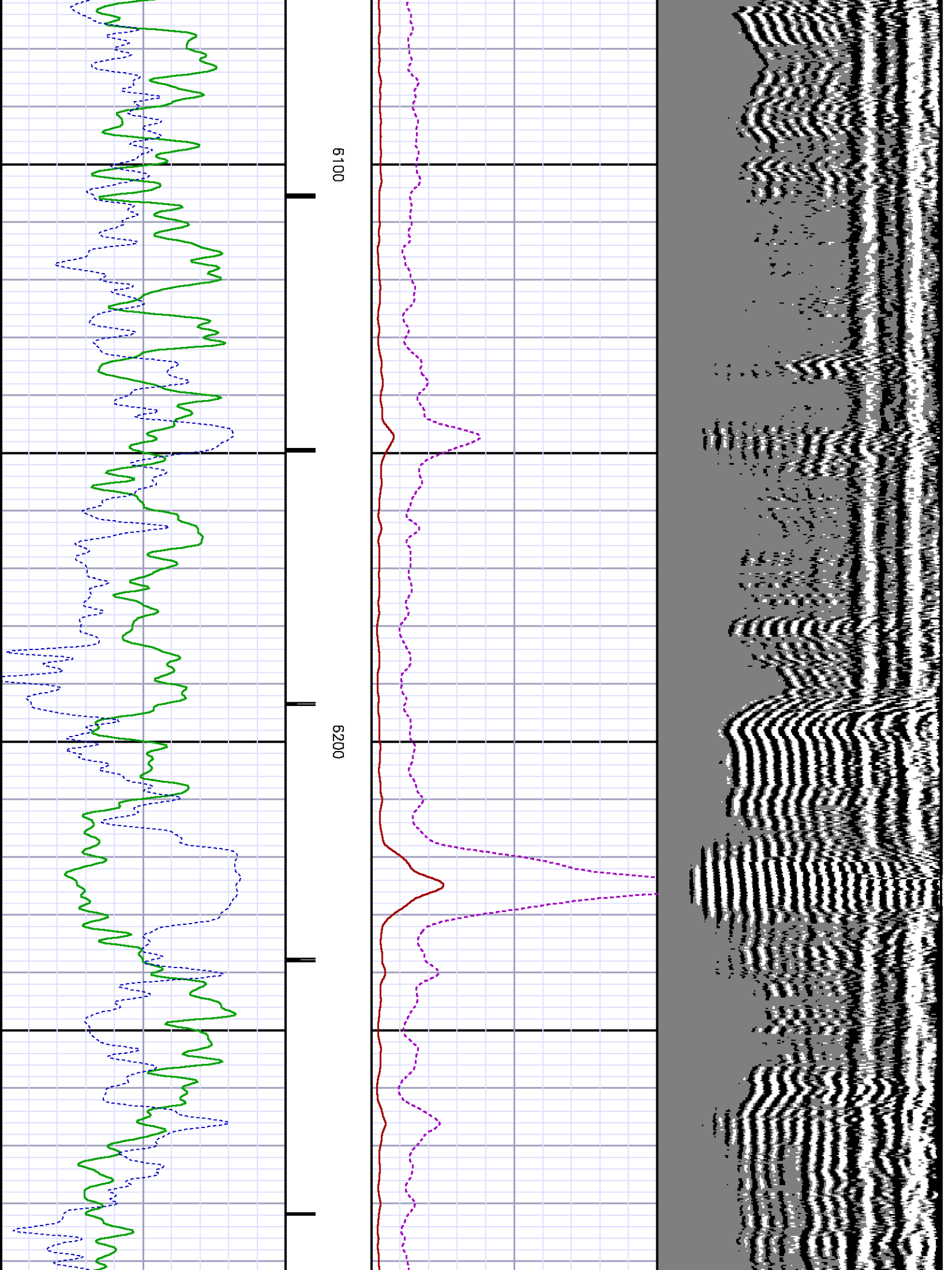


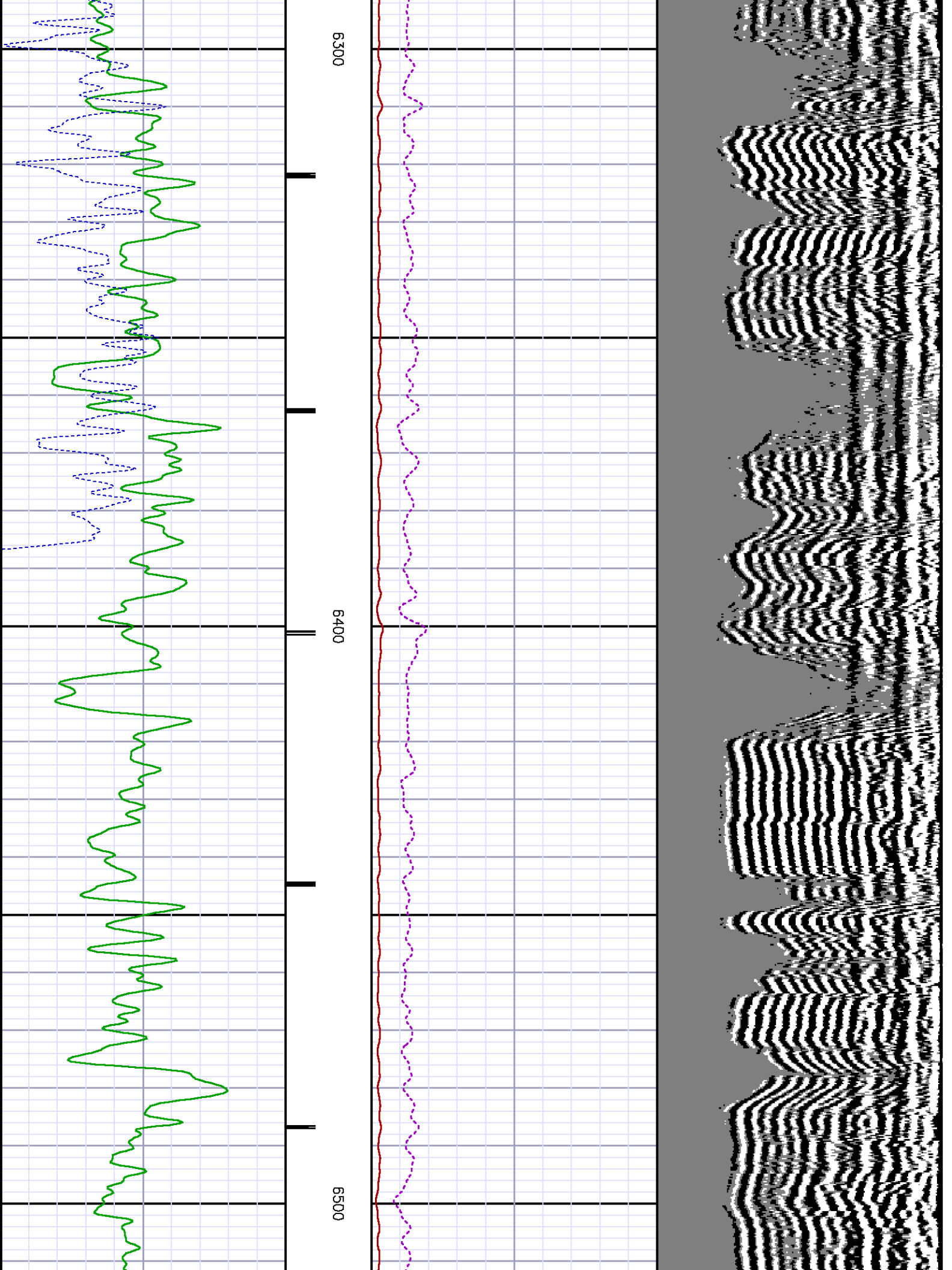


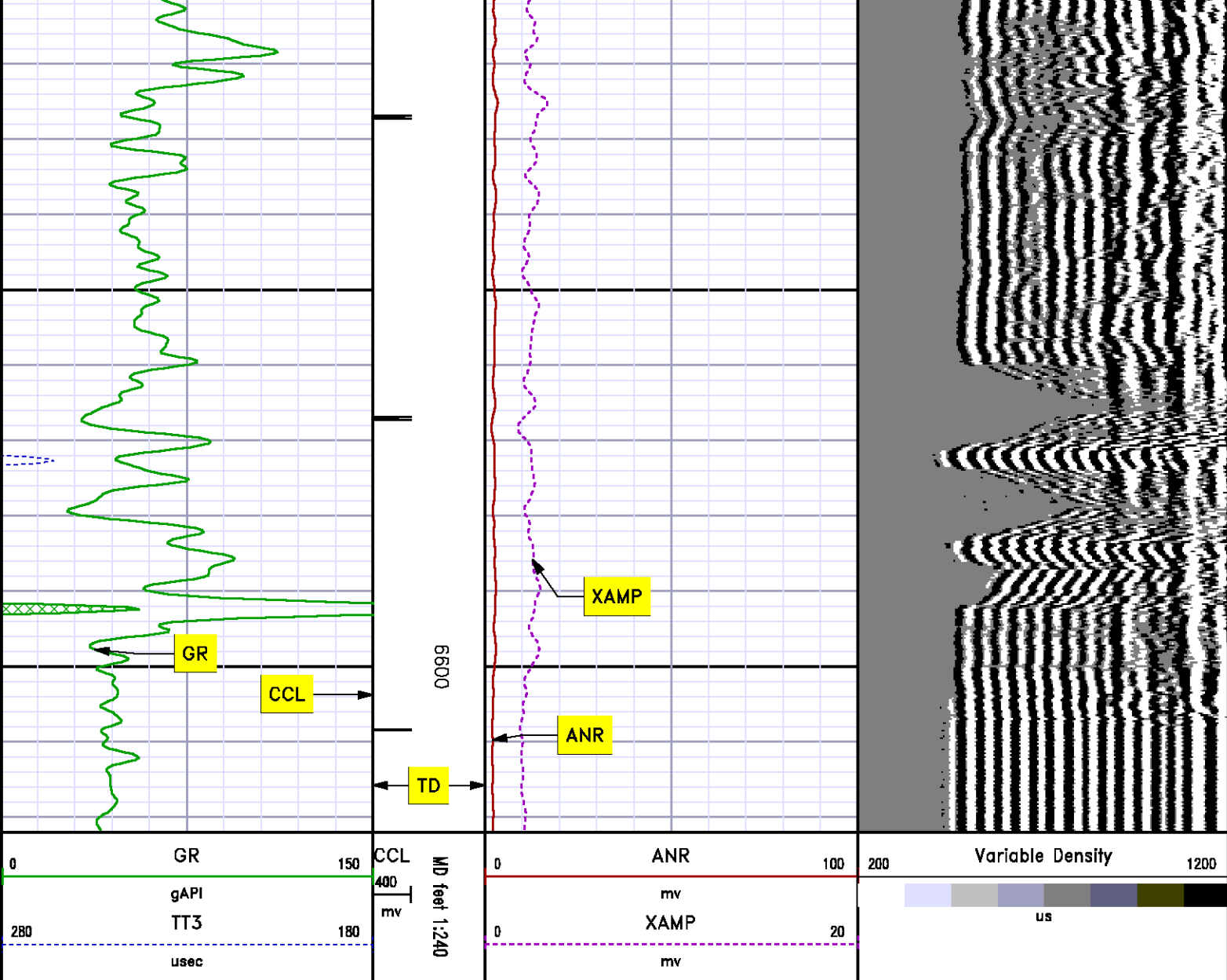












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	30.438	6634.000
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RAL	casing od	4.500	inches	30.438	6634.000
RAL	casing wt	11.600	lbm/ft	30.438	6634.000
RAL	FB Start Far	291.900	usec	30.438	6634.000
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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

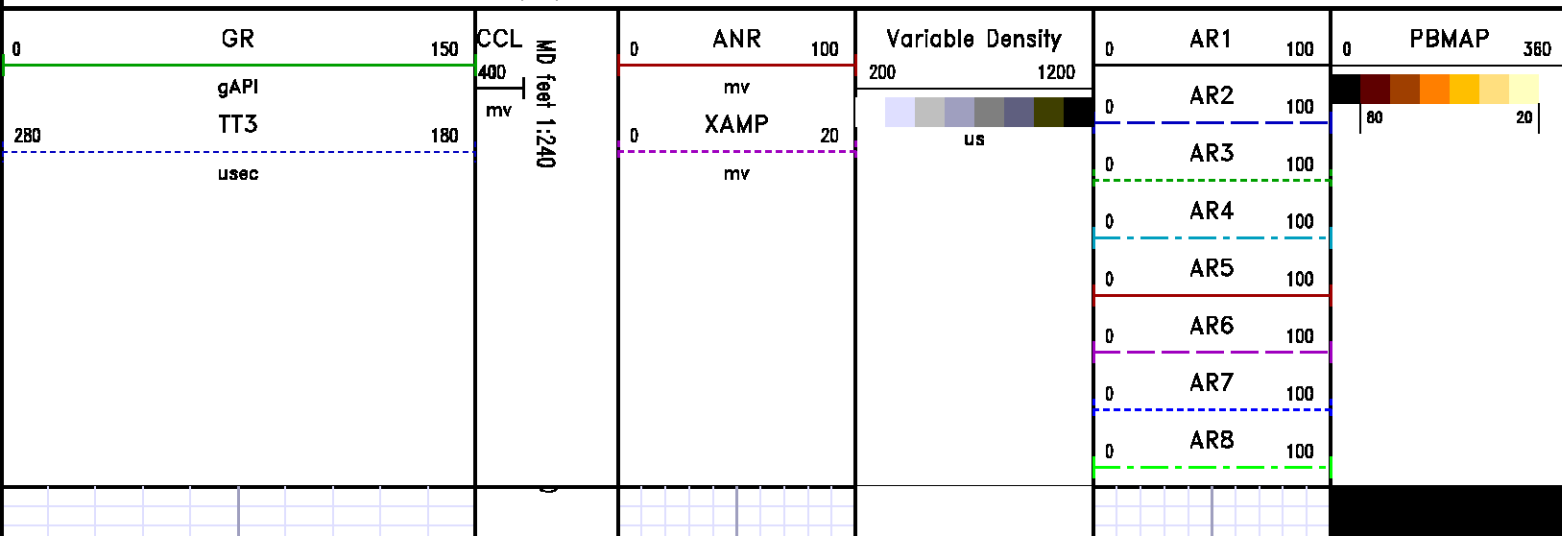
Well : WPX ENERGY GM 424-34

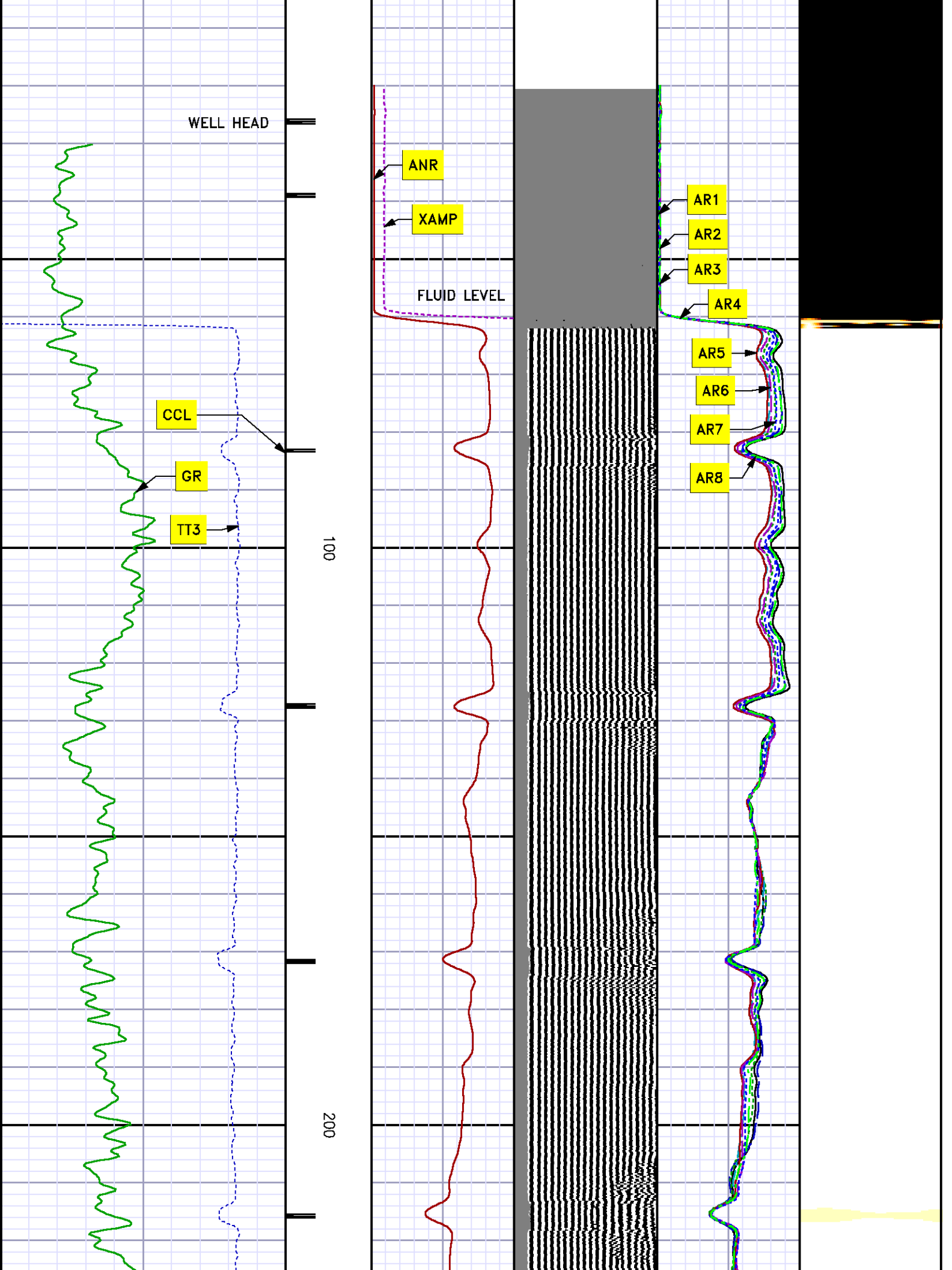
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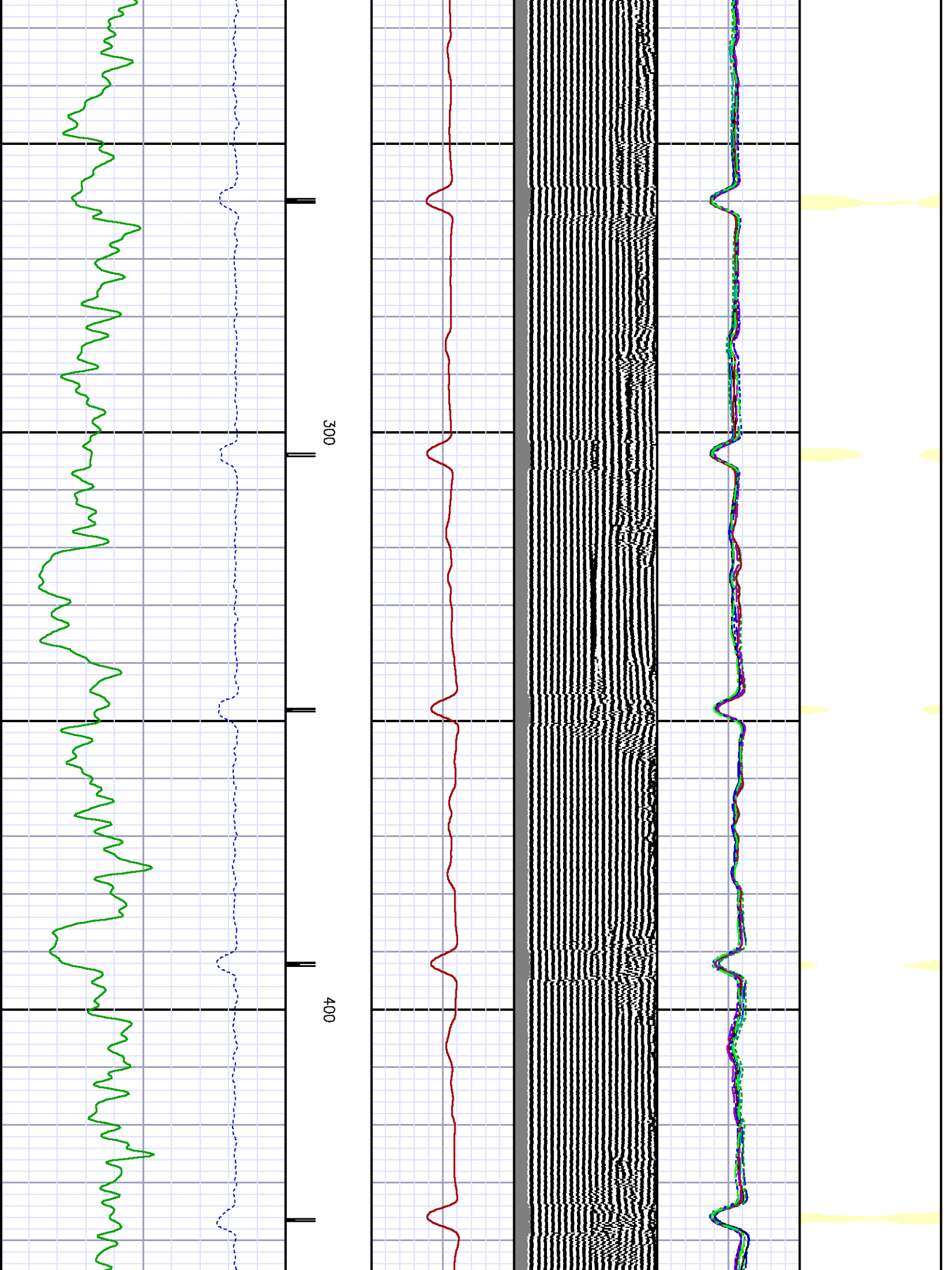
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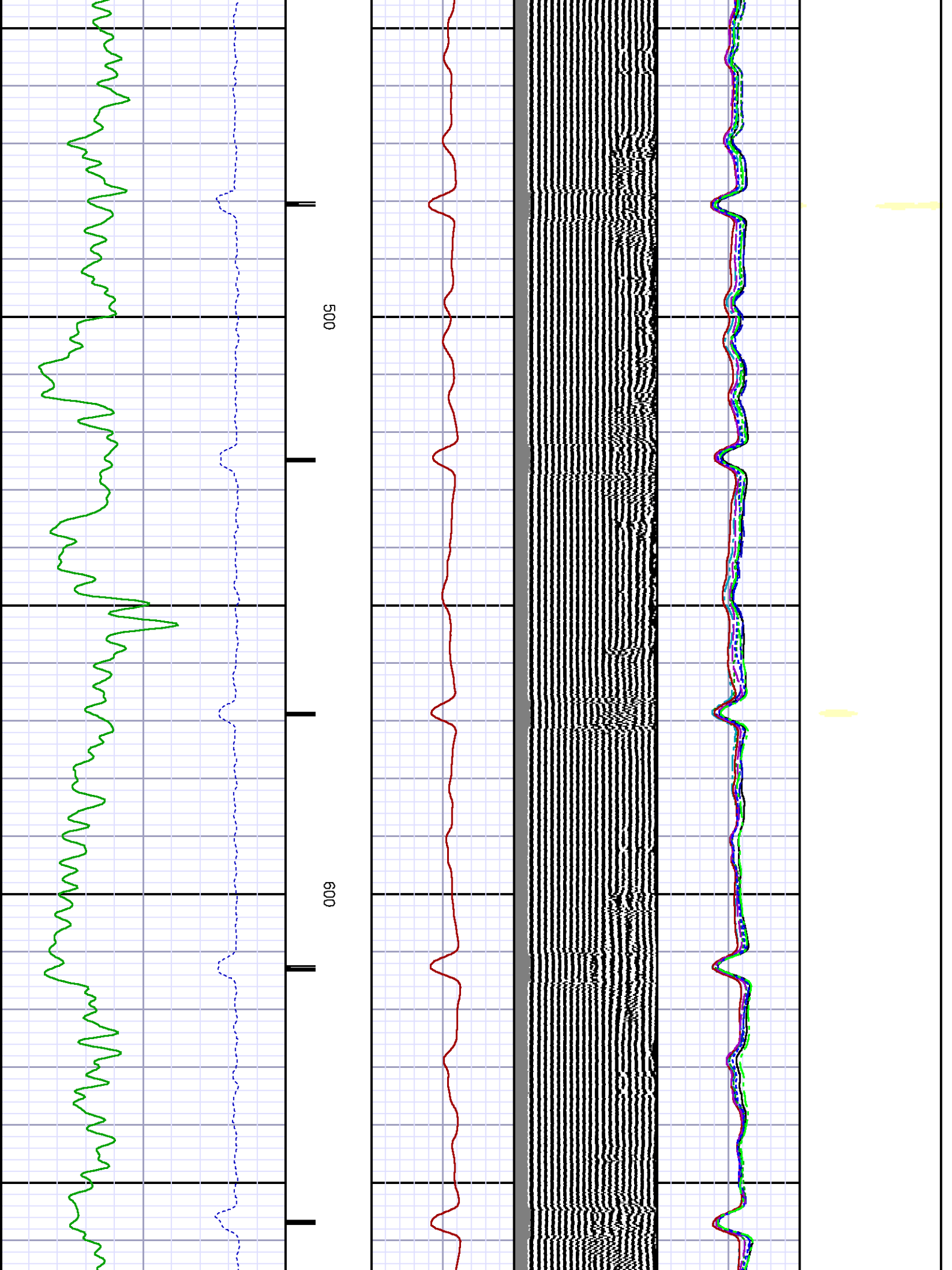
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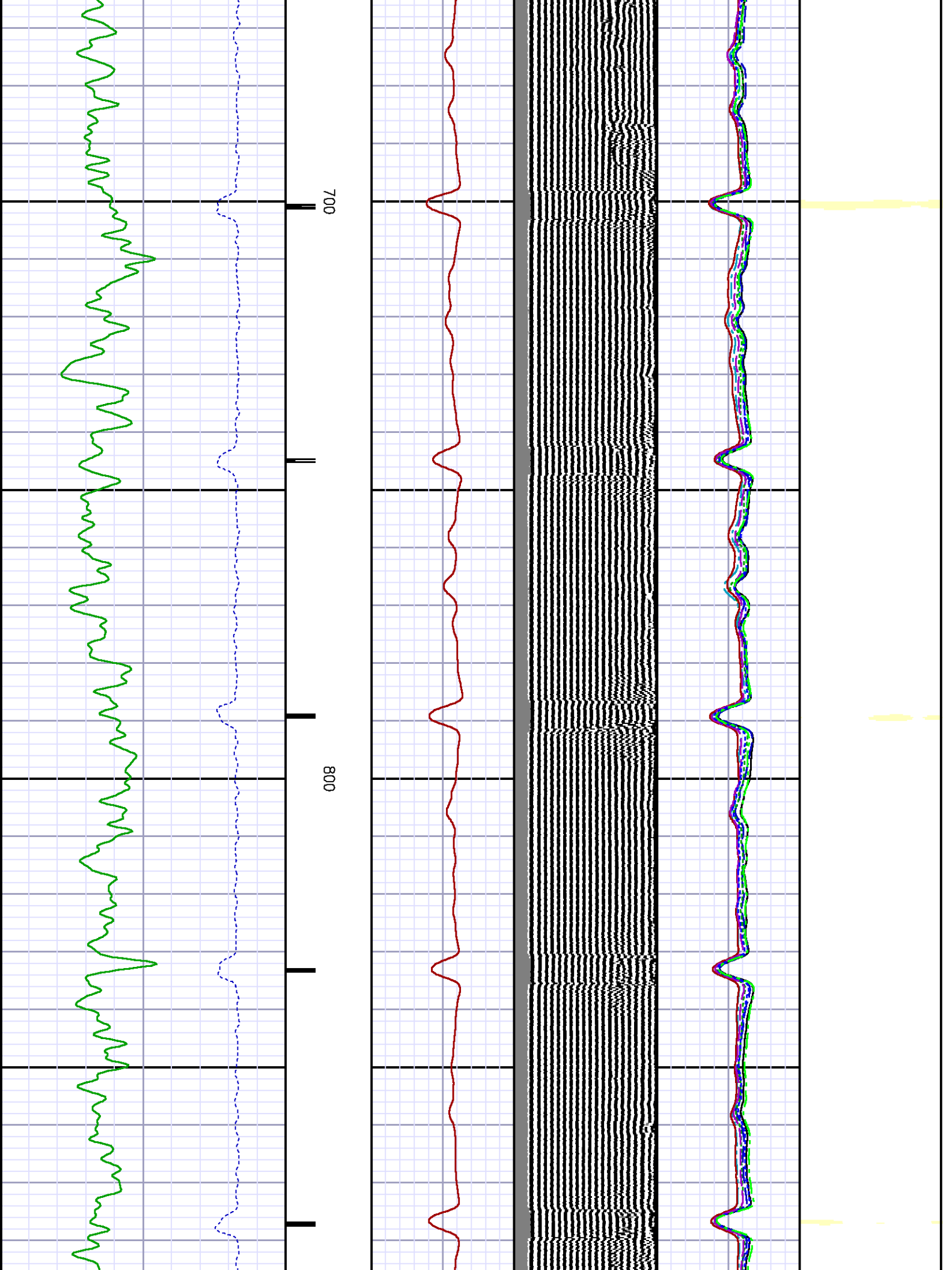
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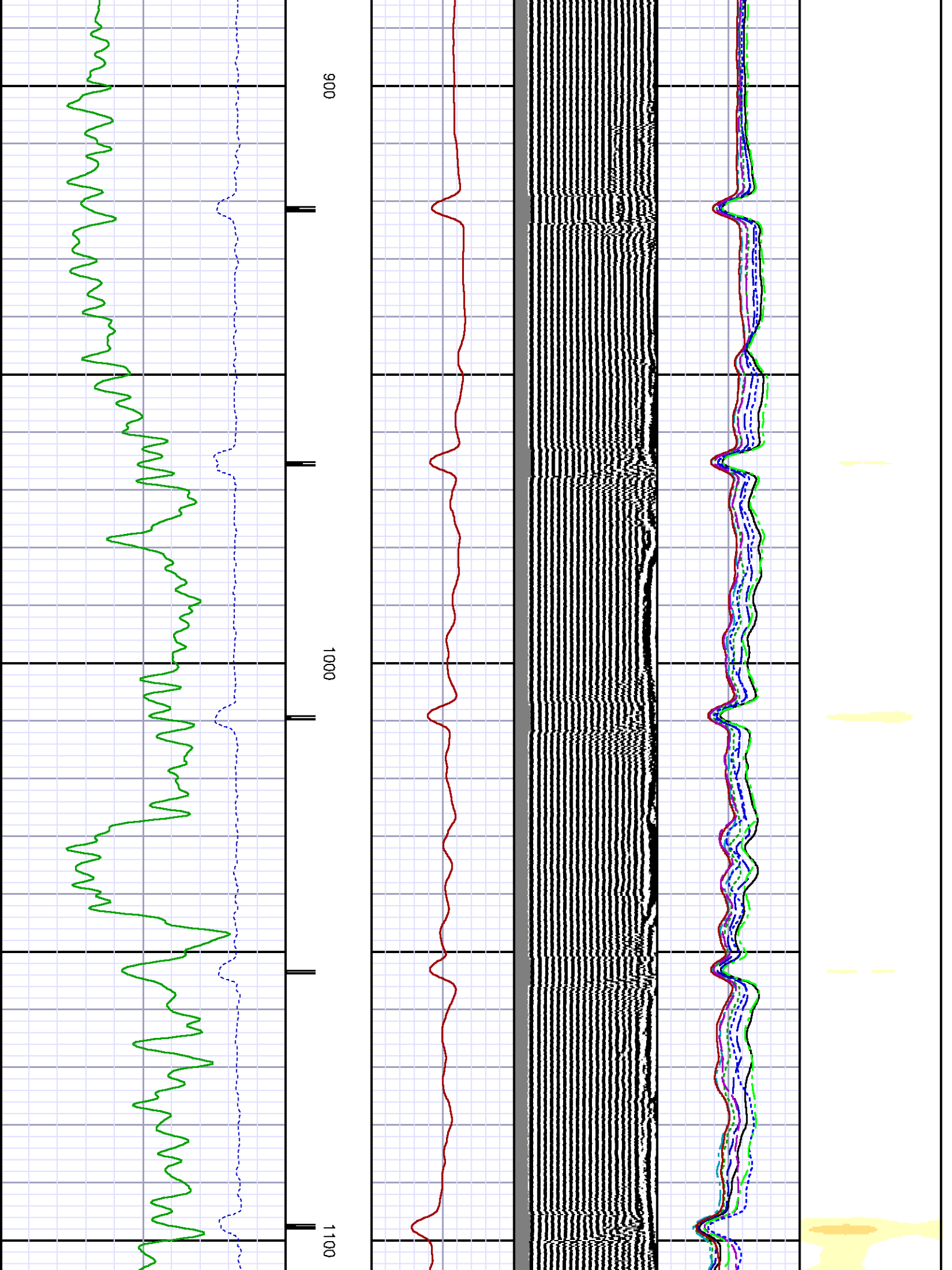


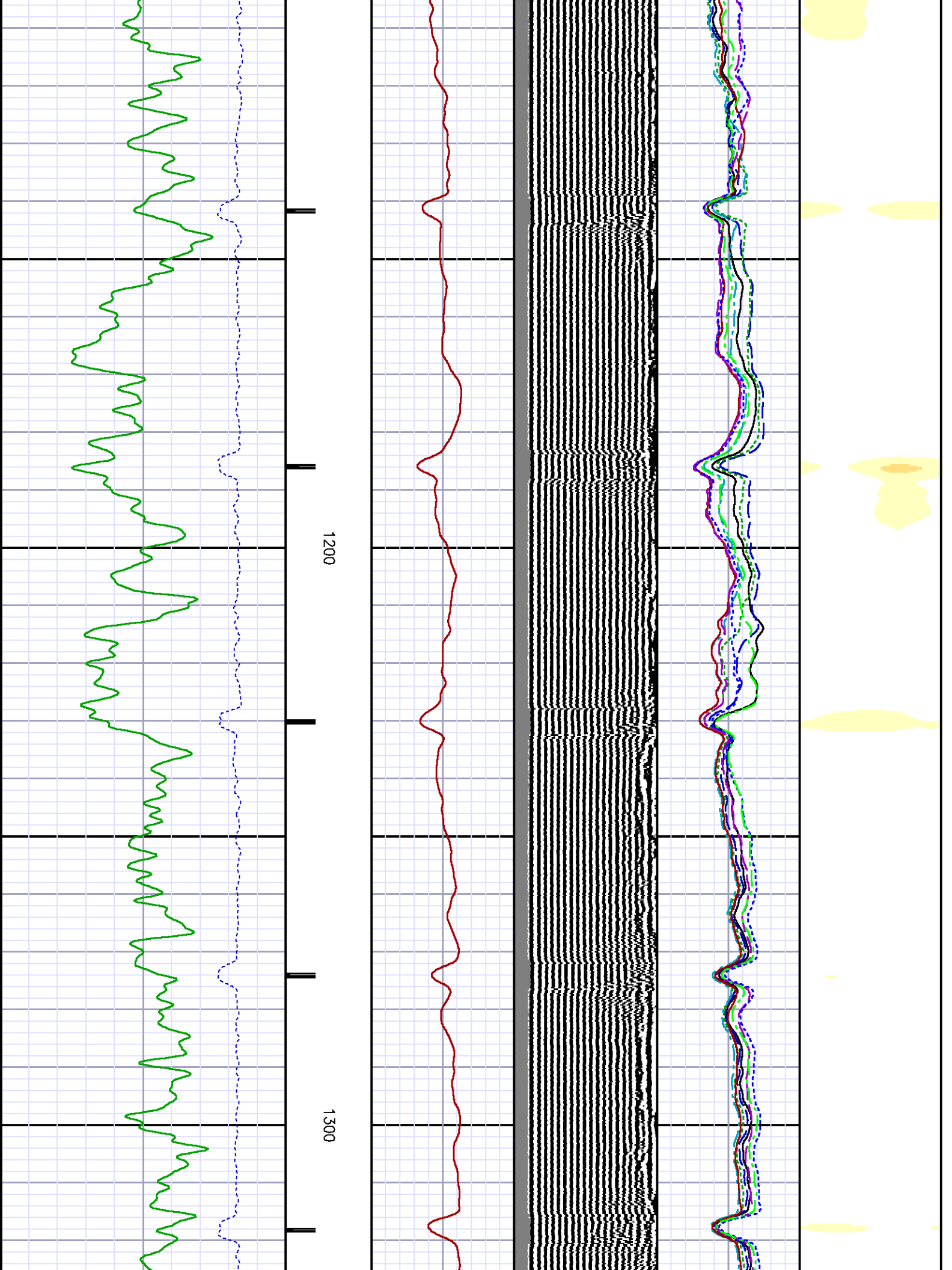


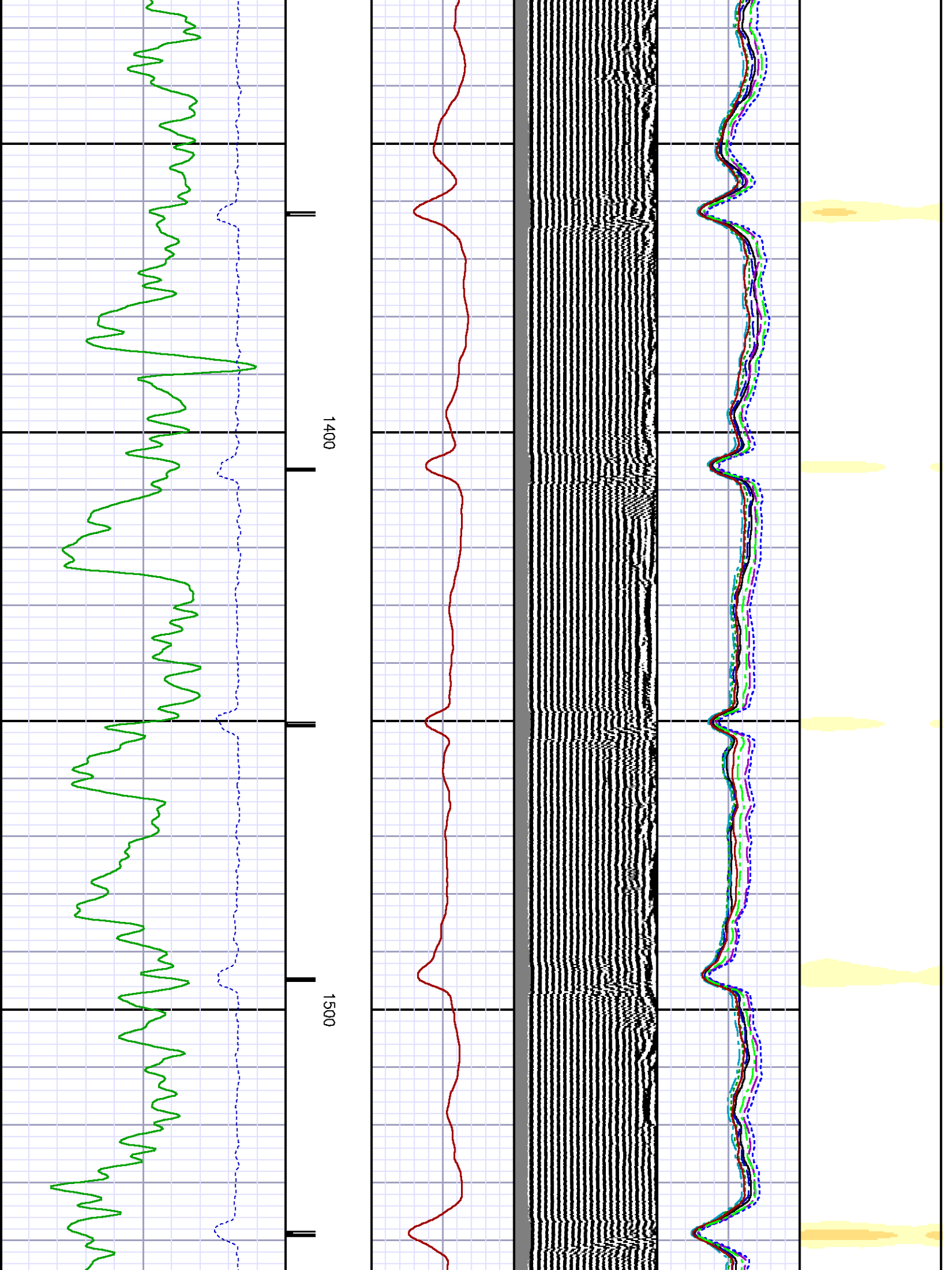


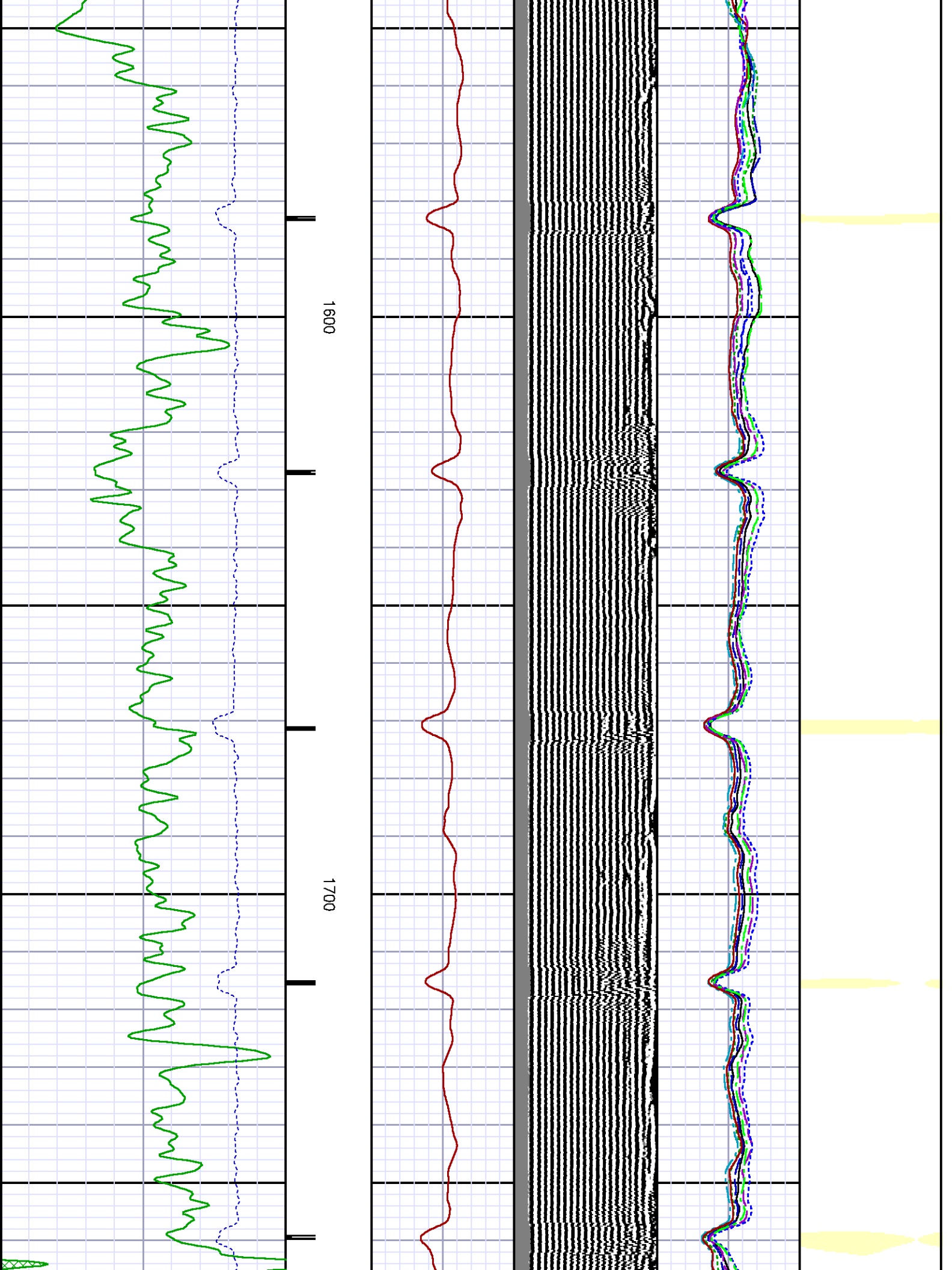


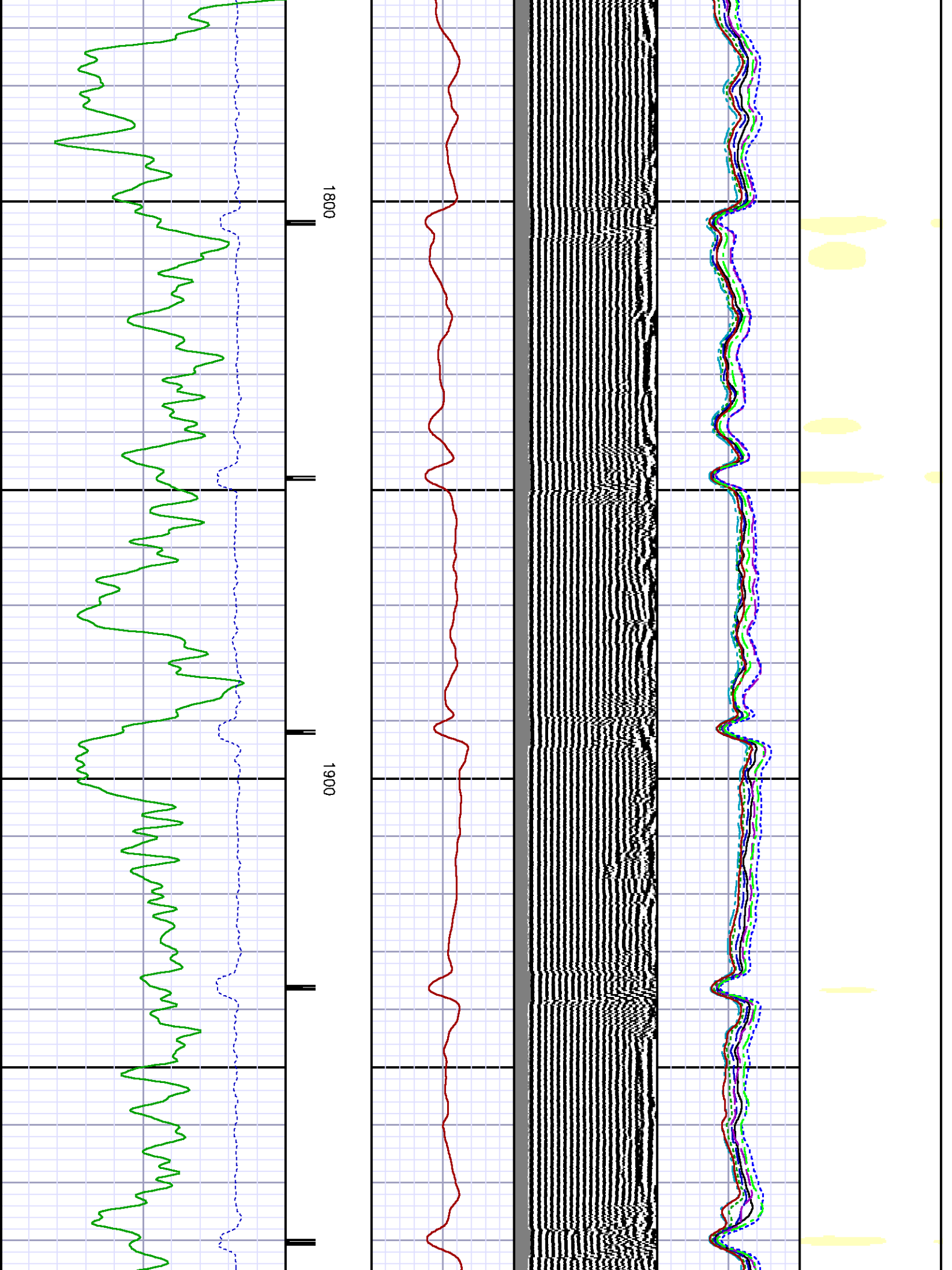


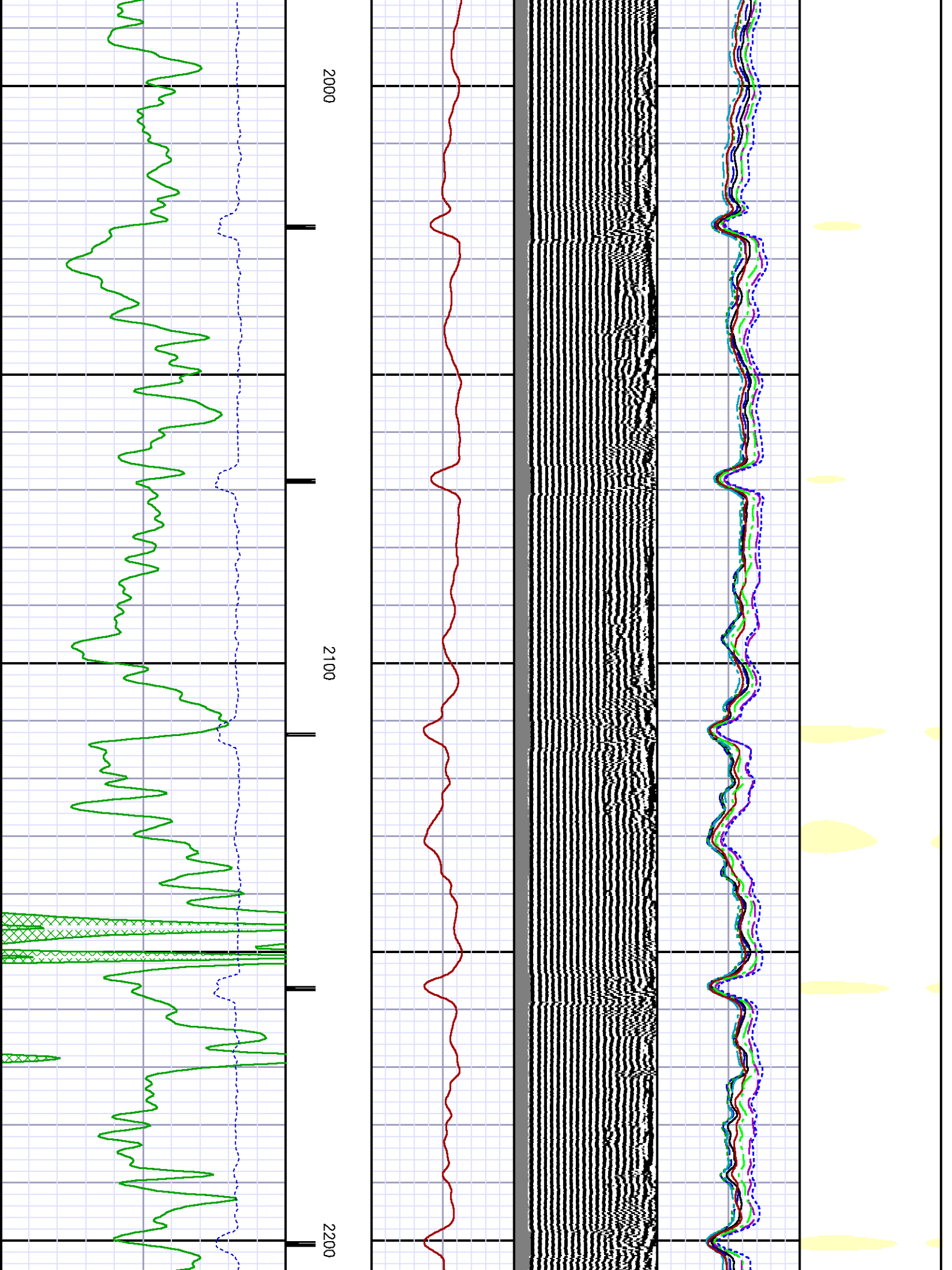


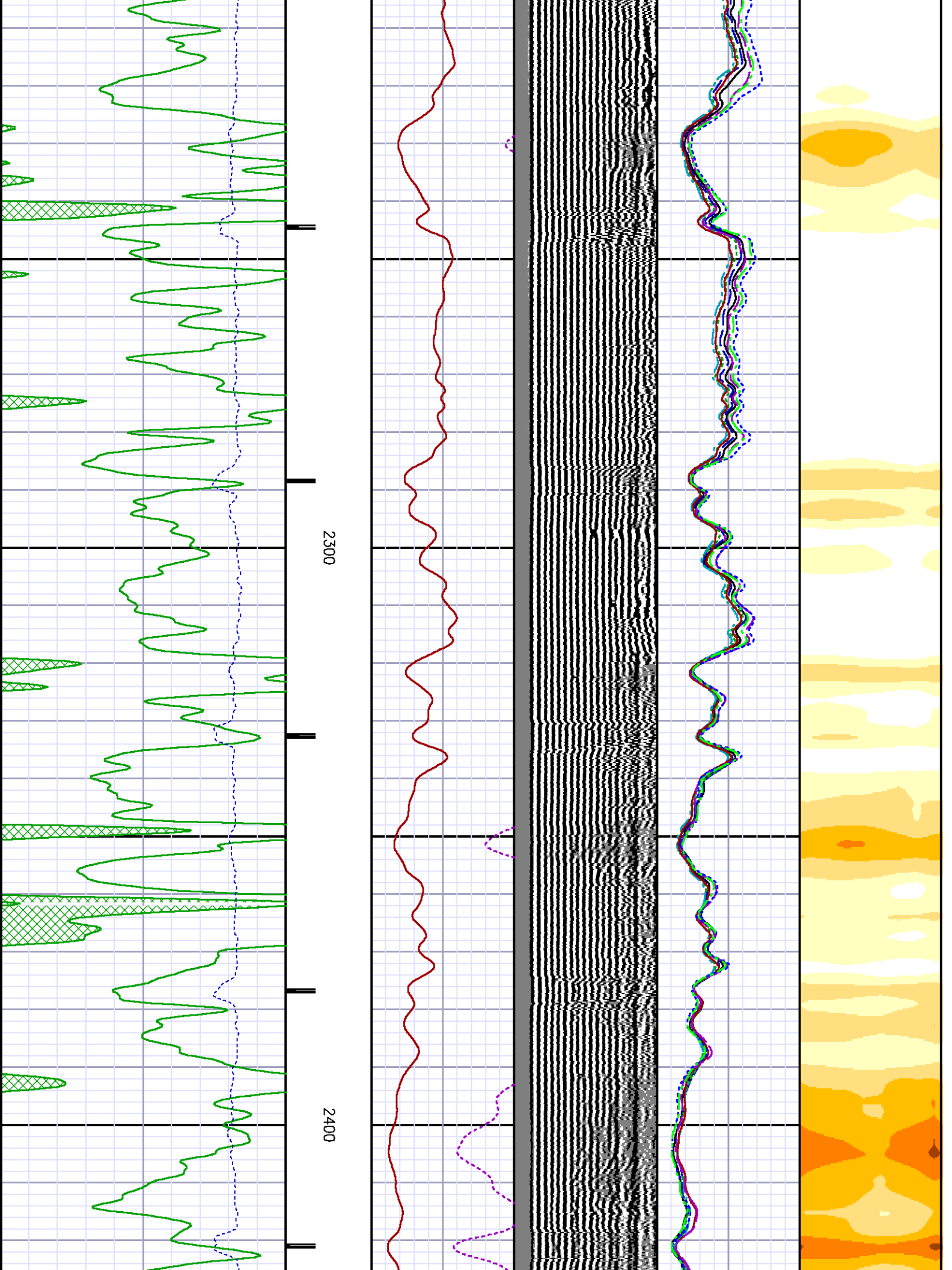


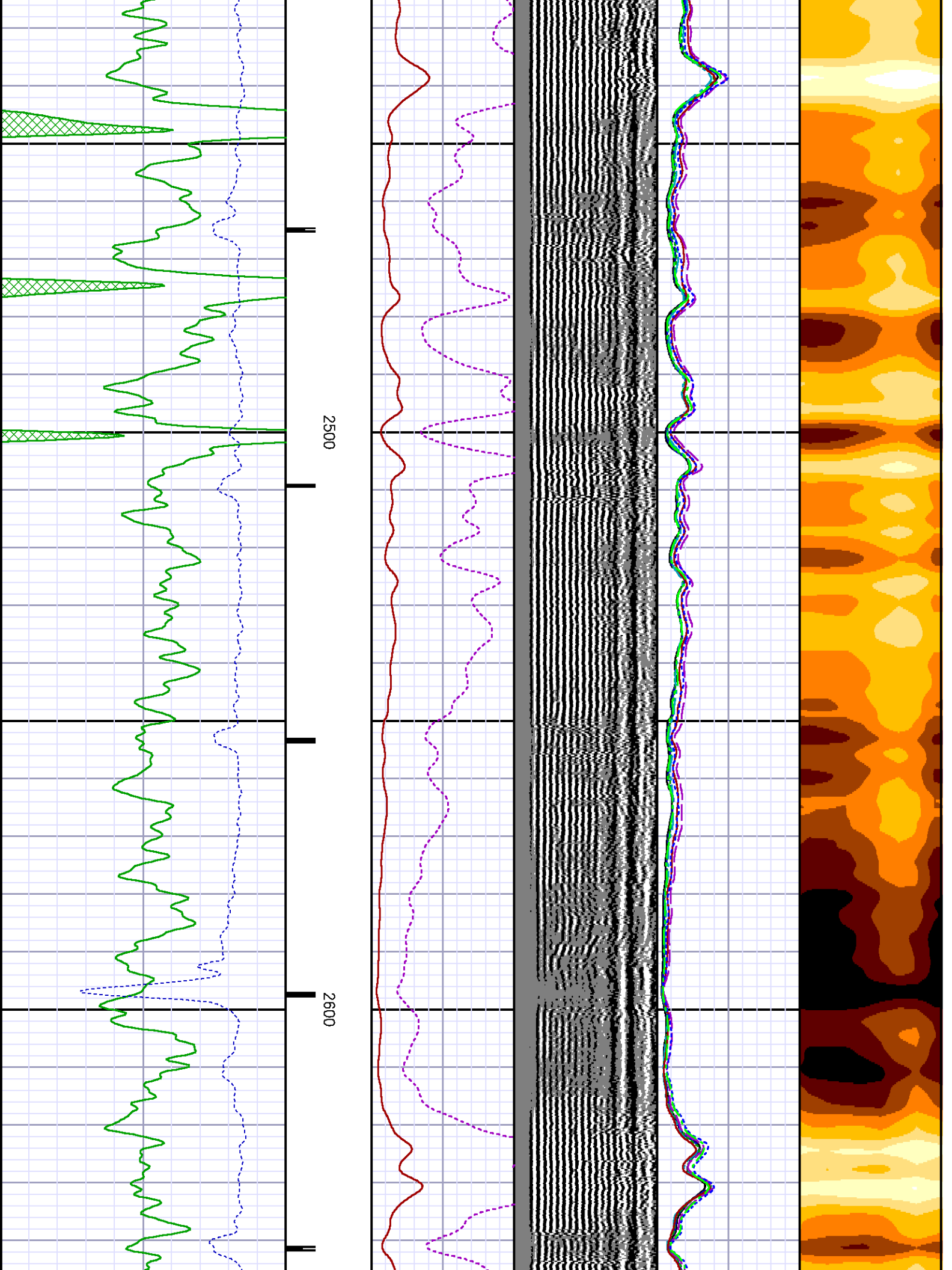


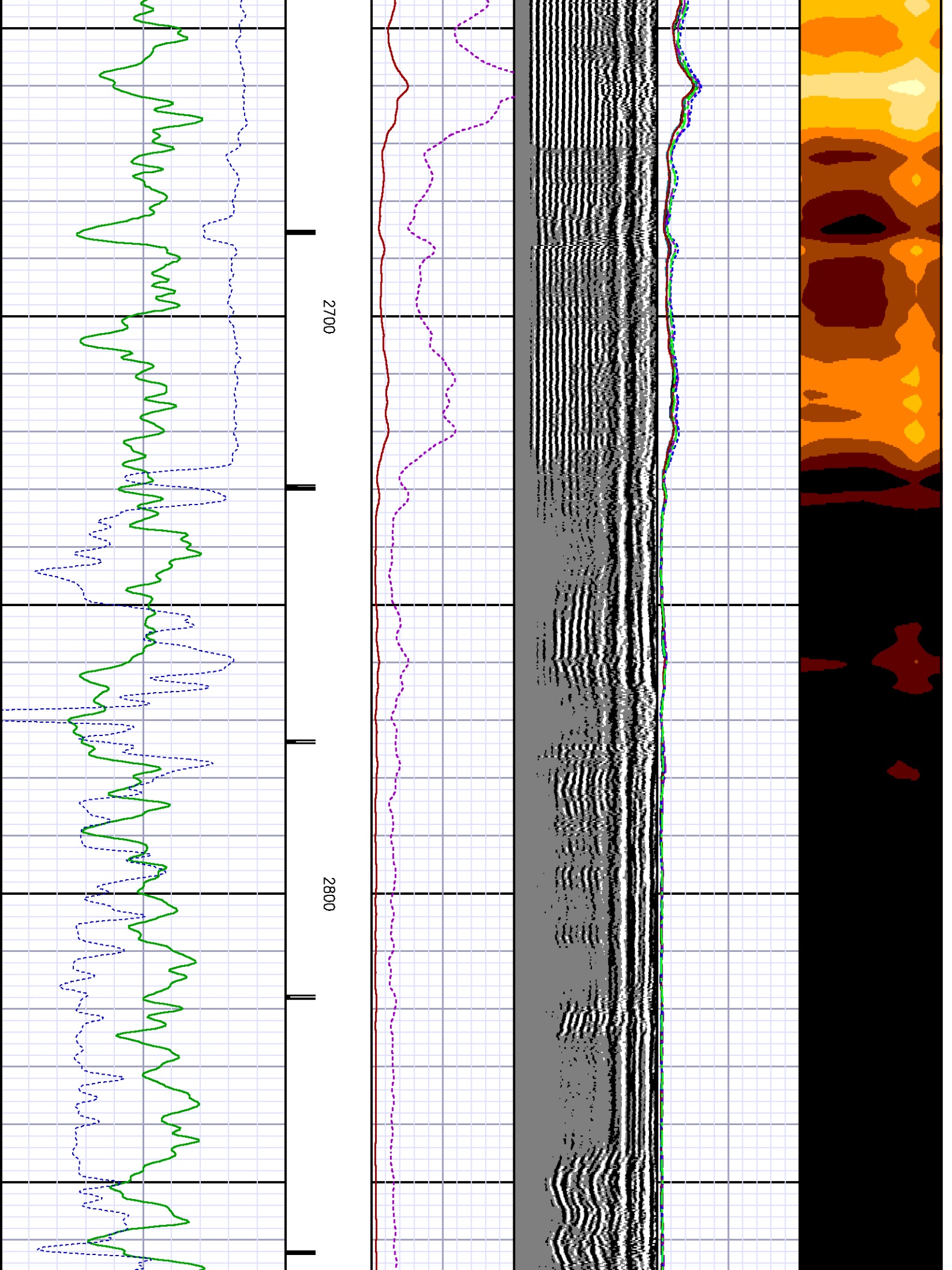


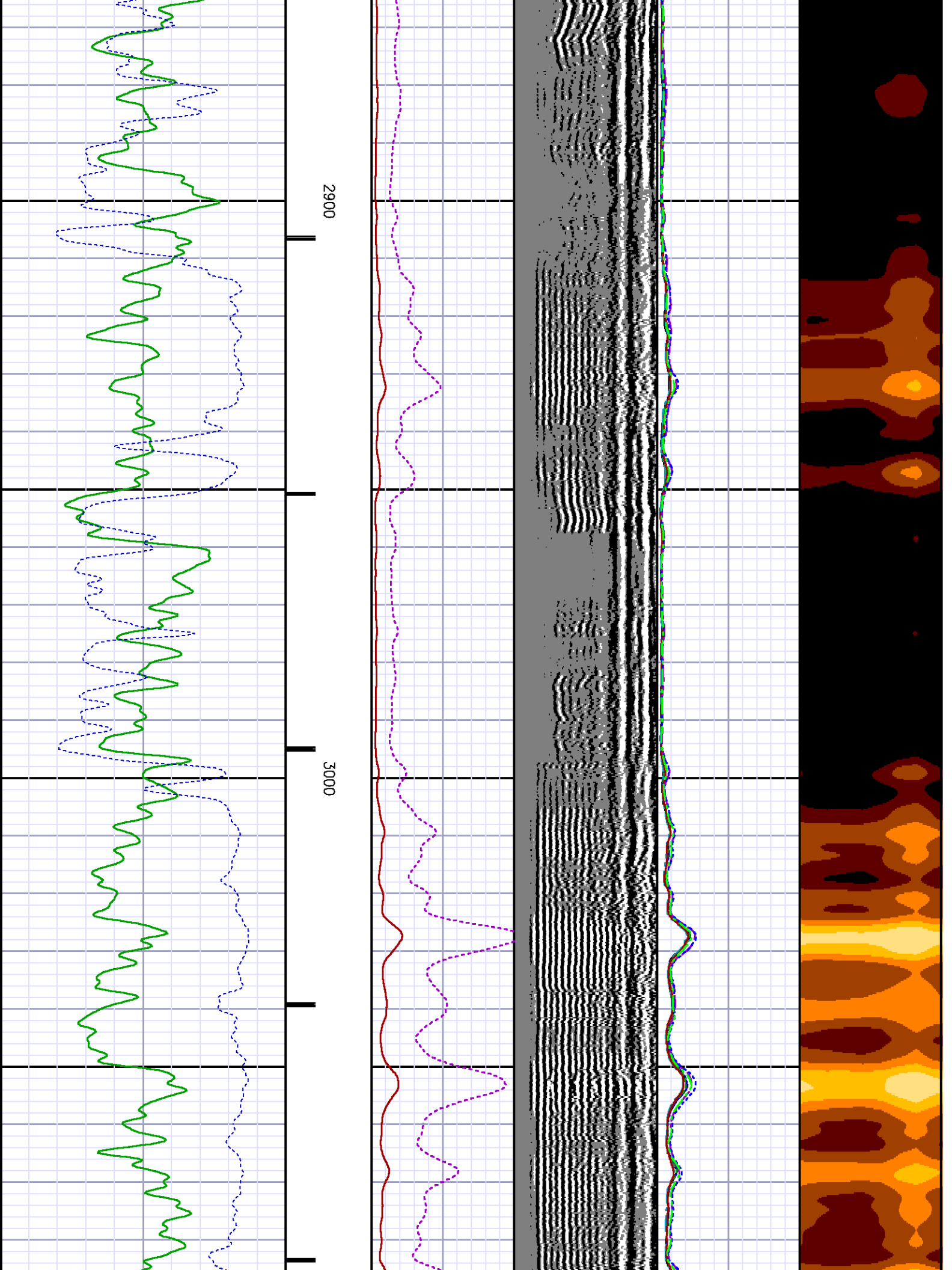


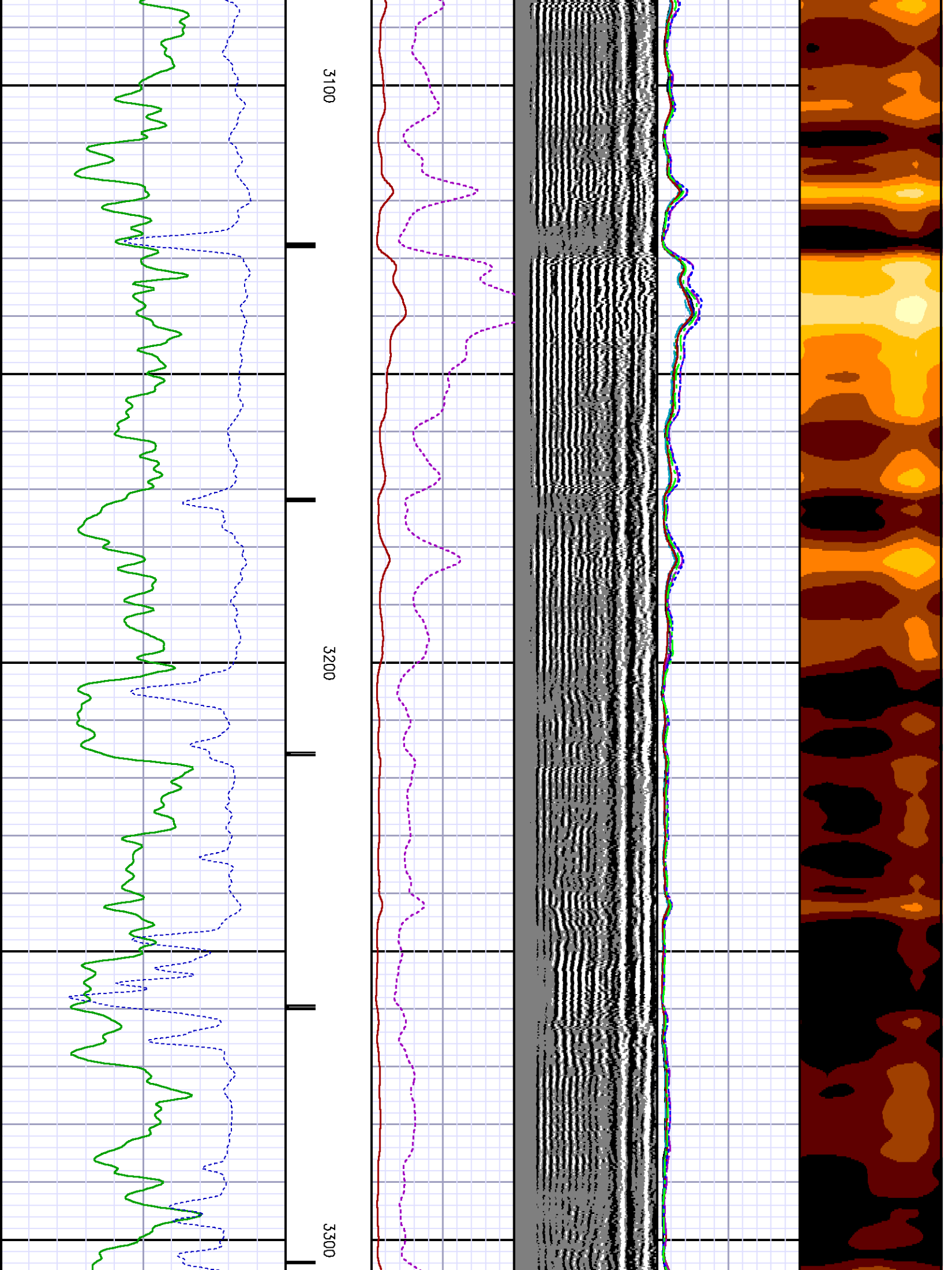


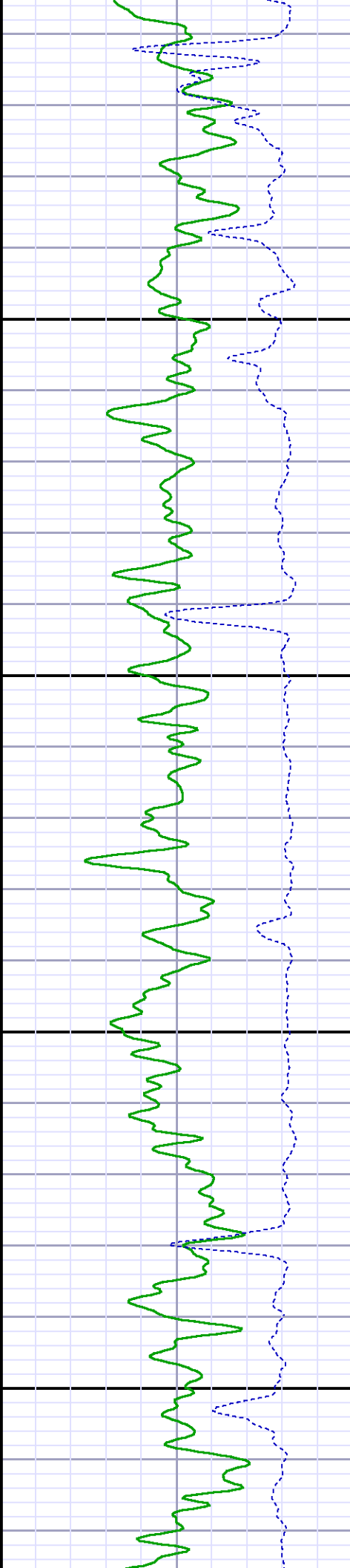
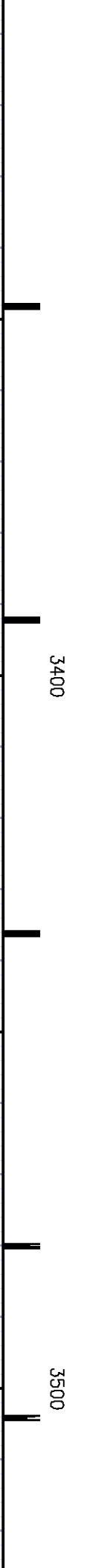
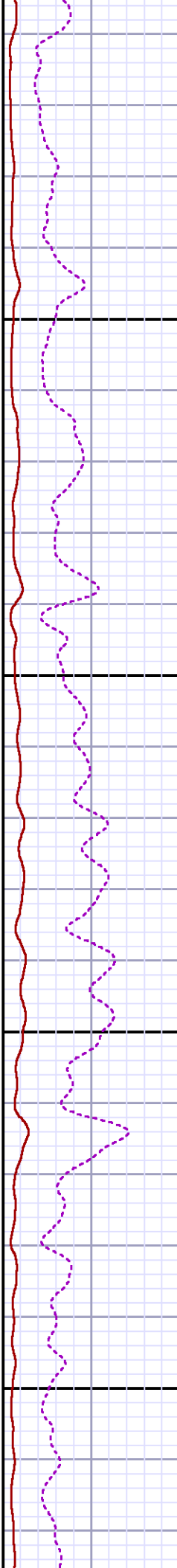
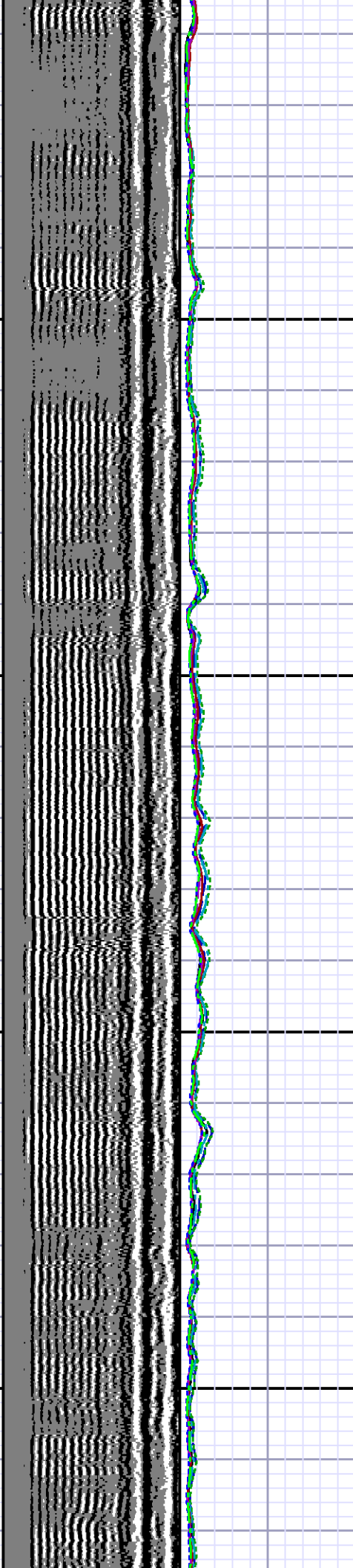
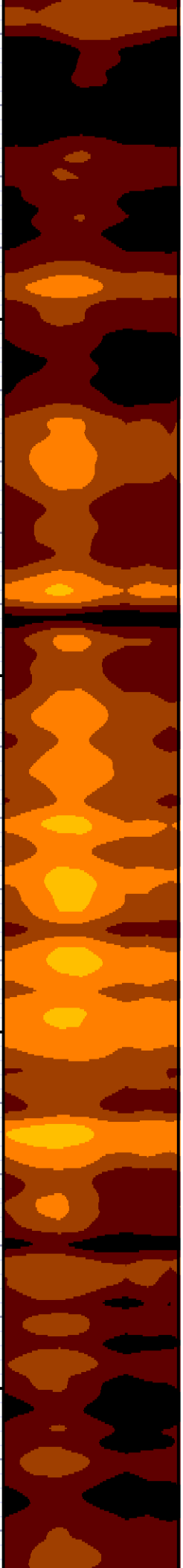


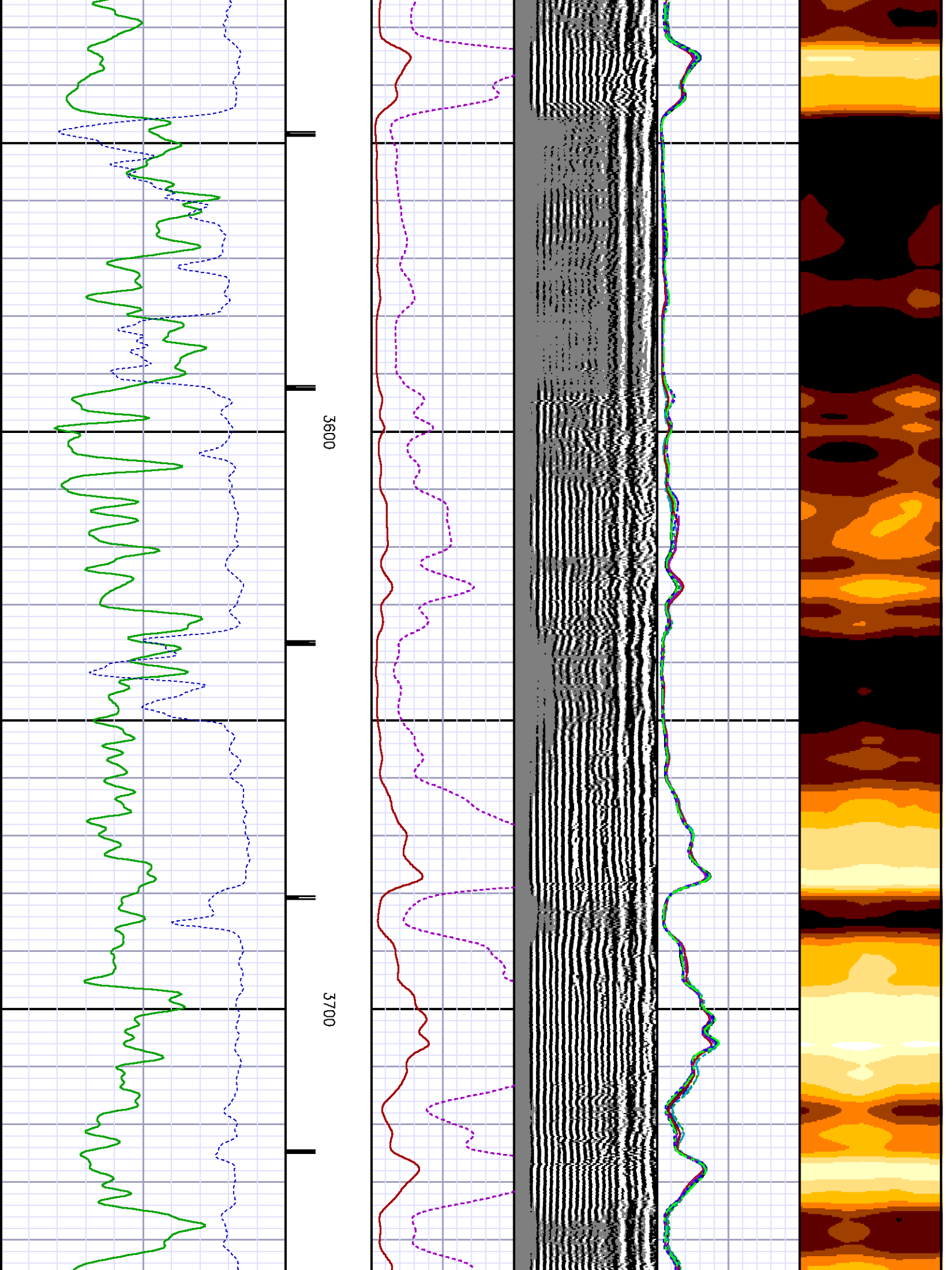


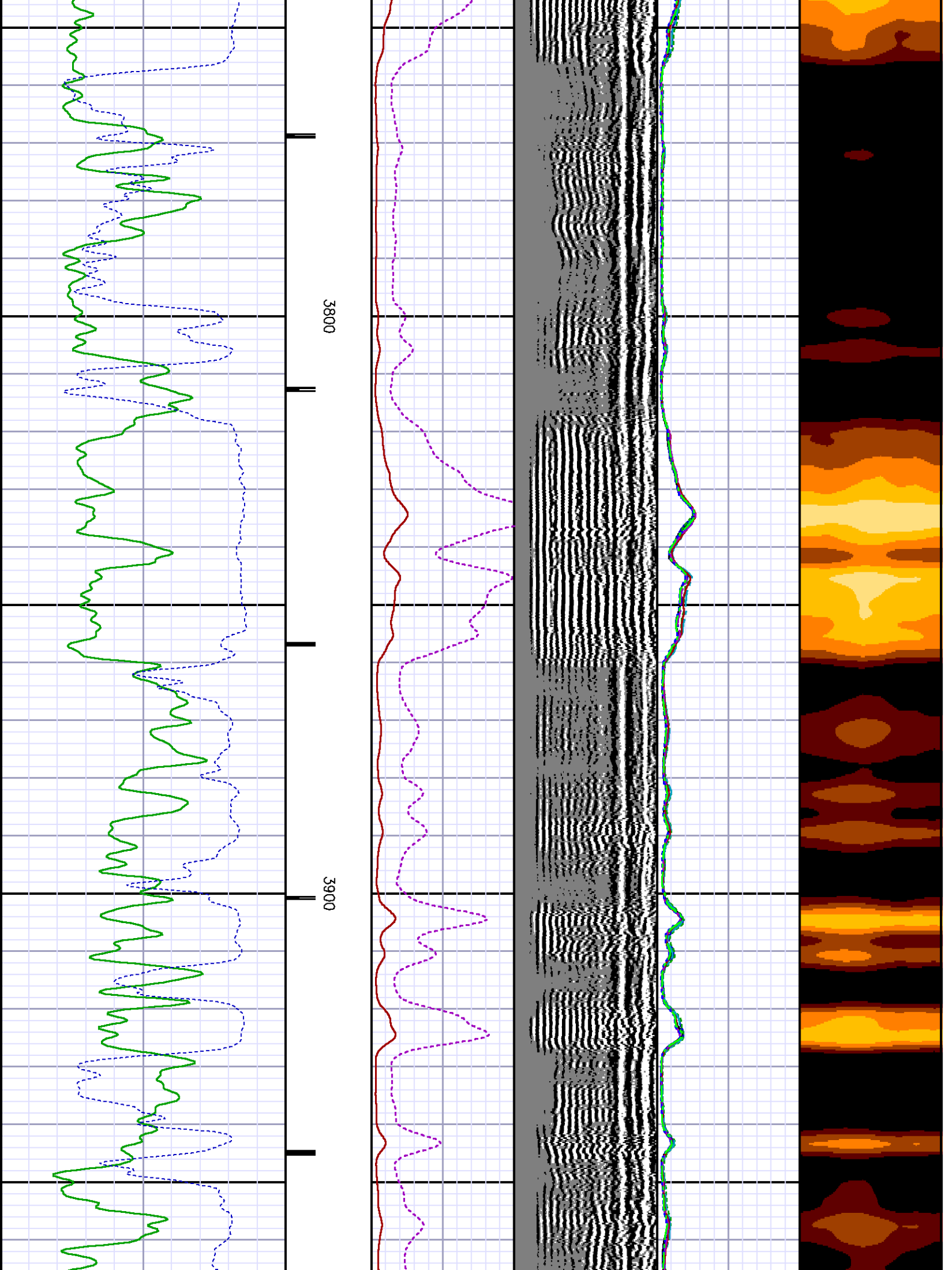


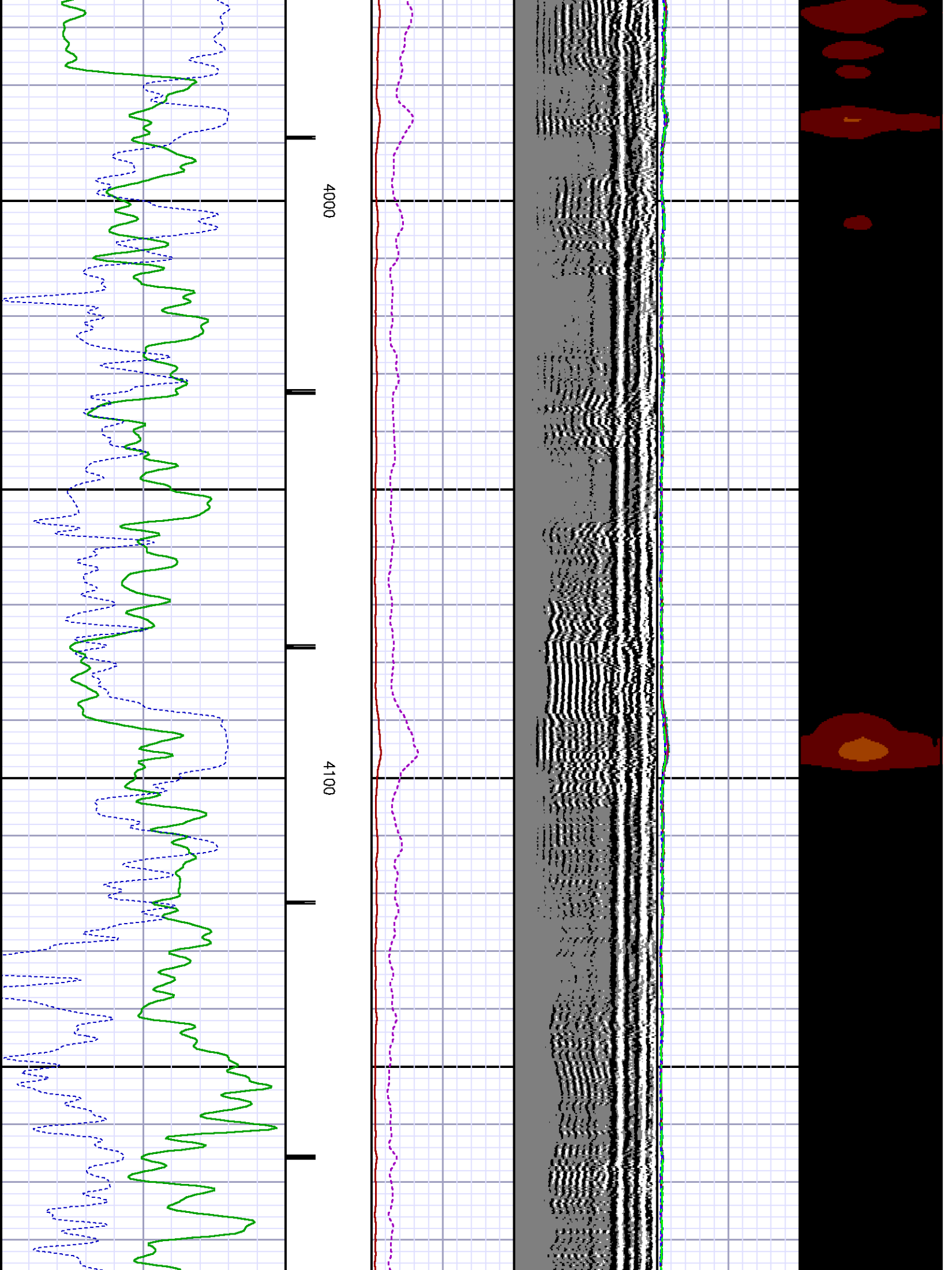


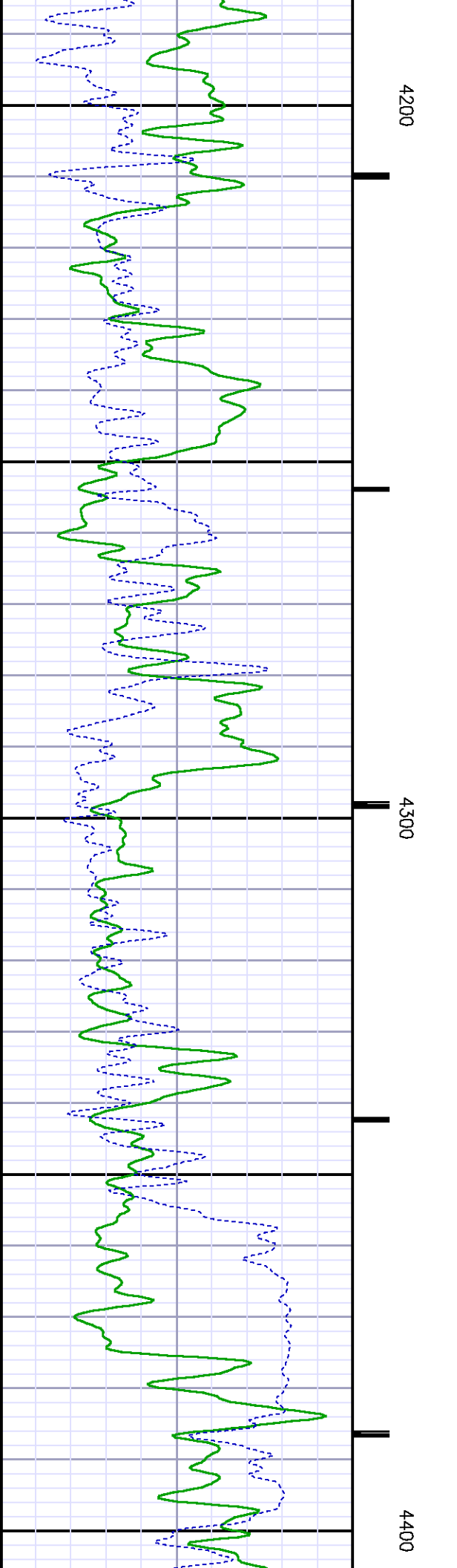
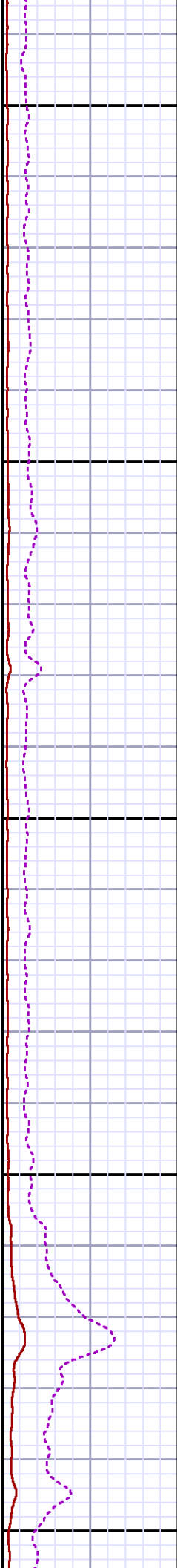
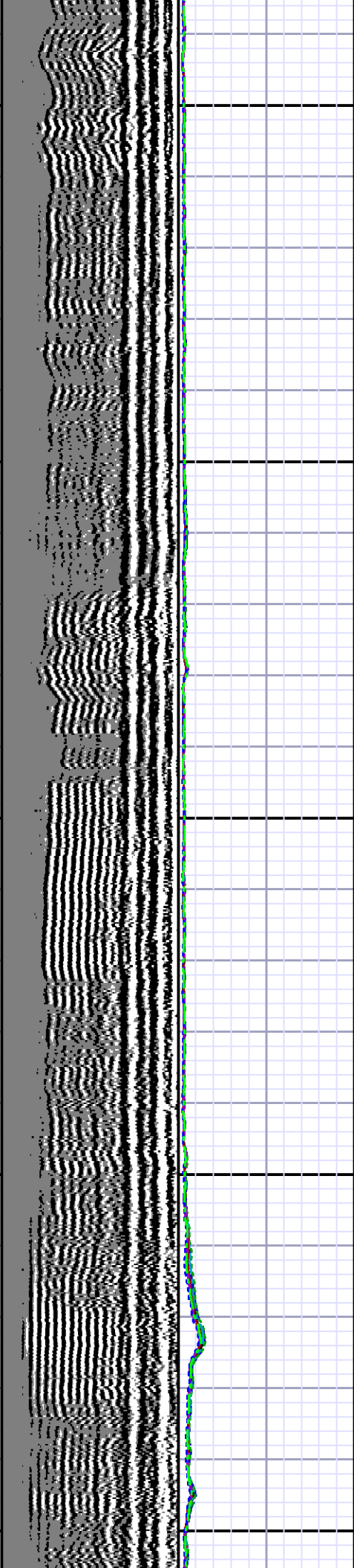


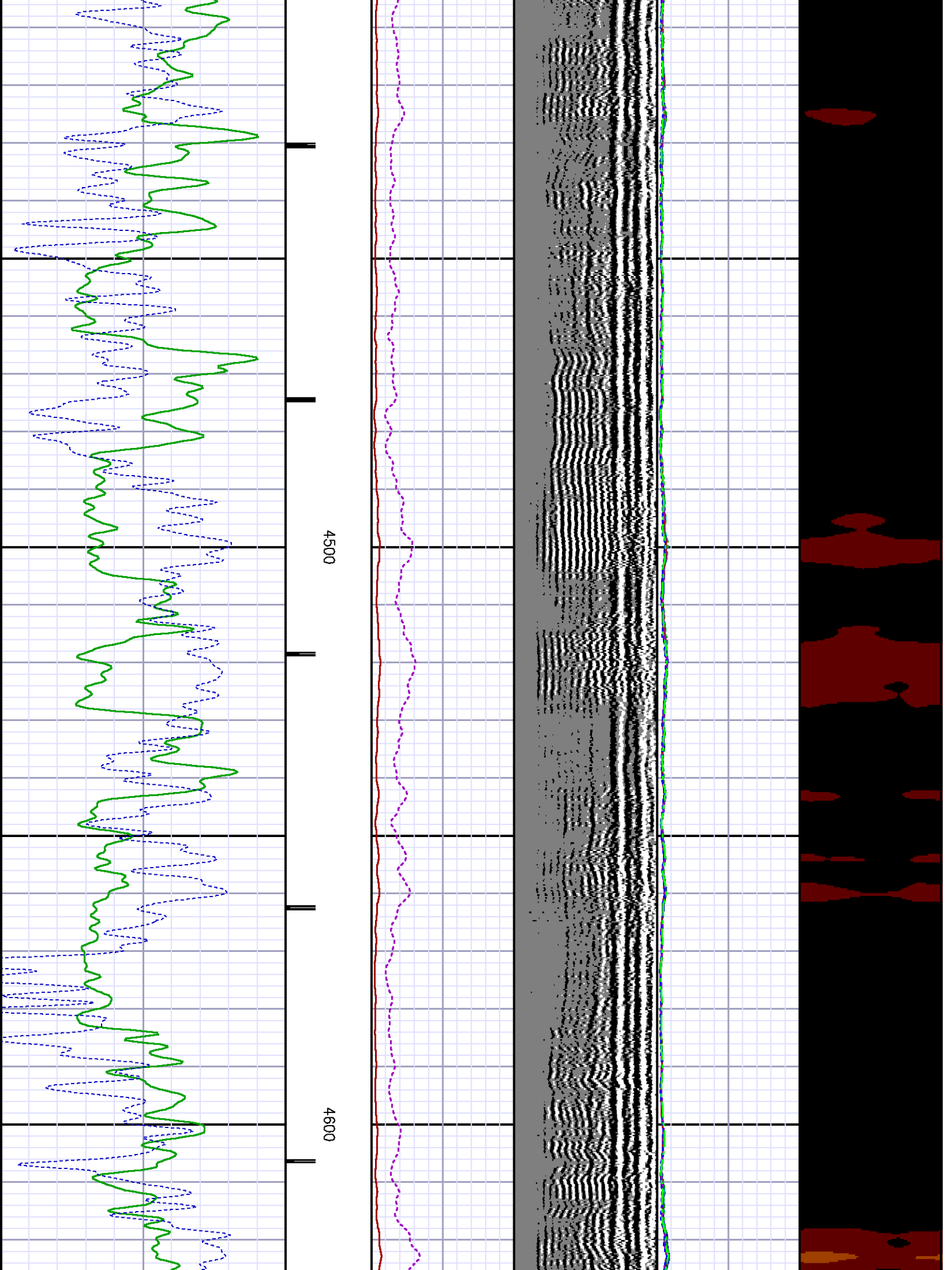


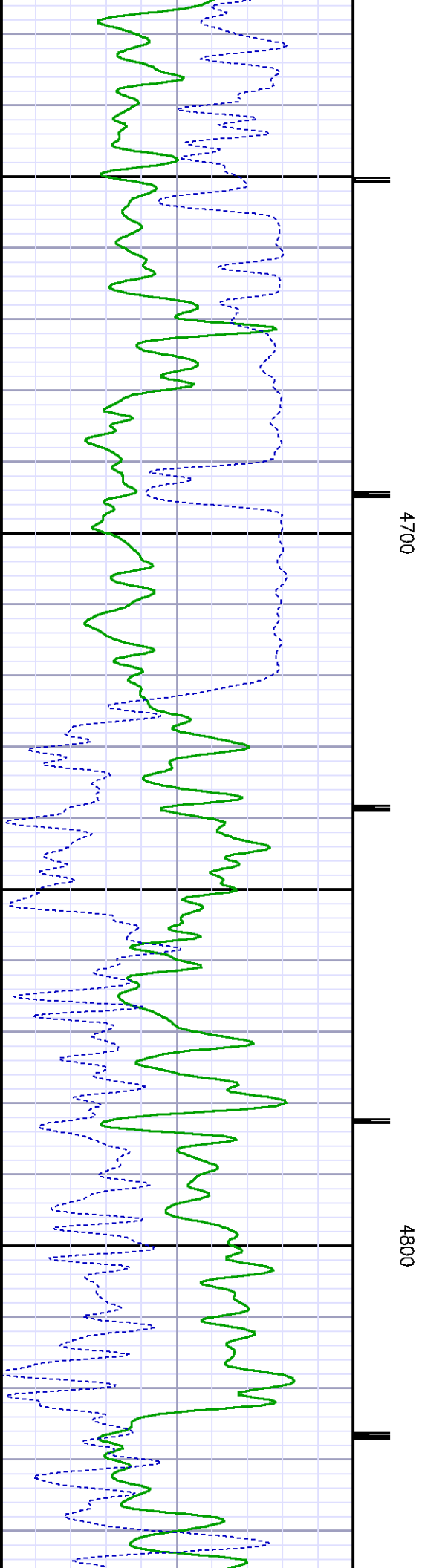
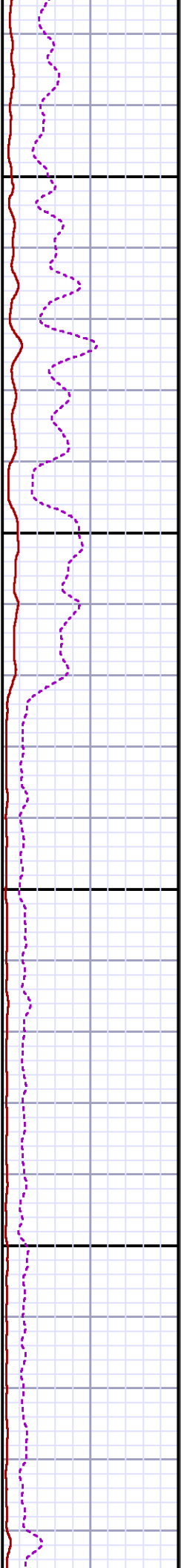
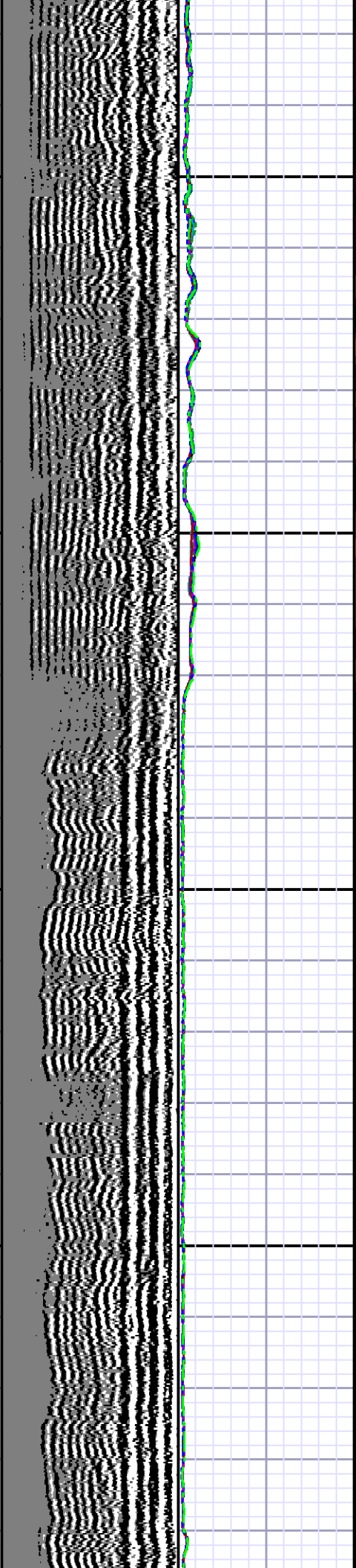
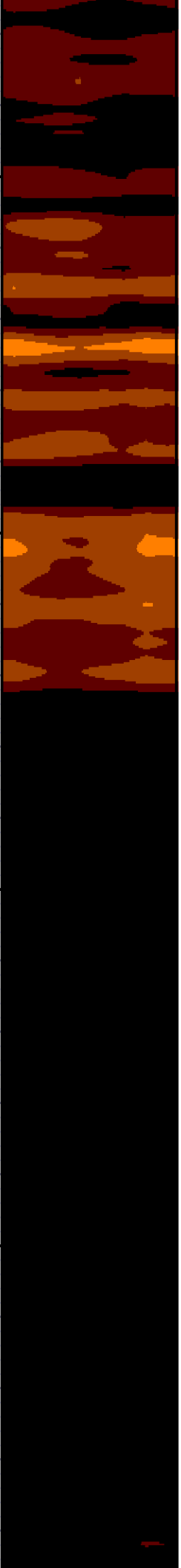


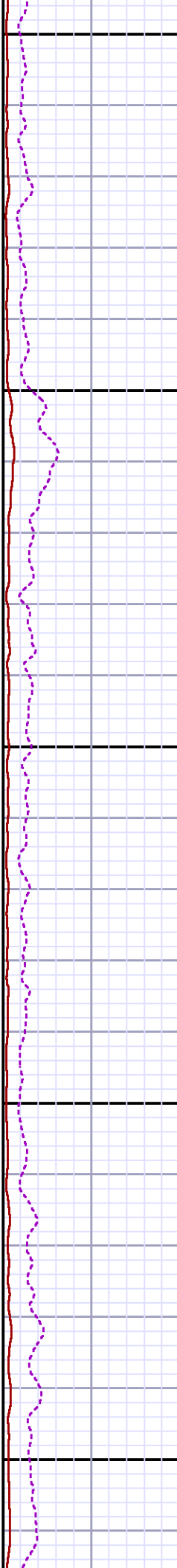
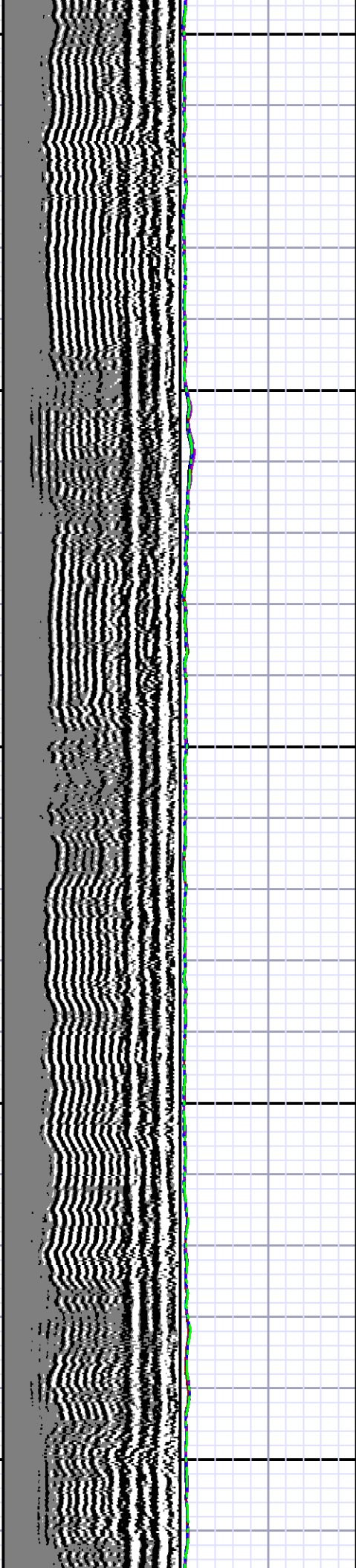






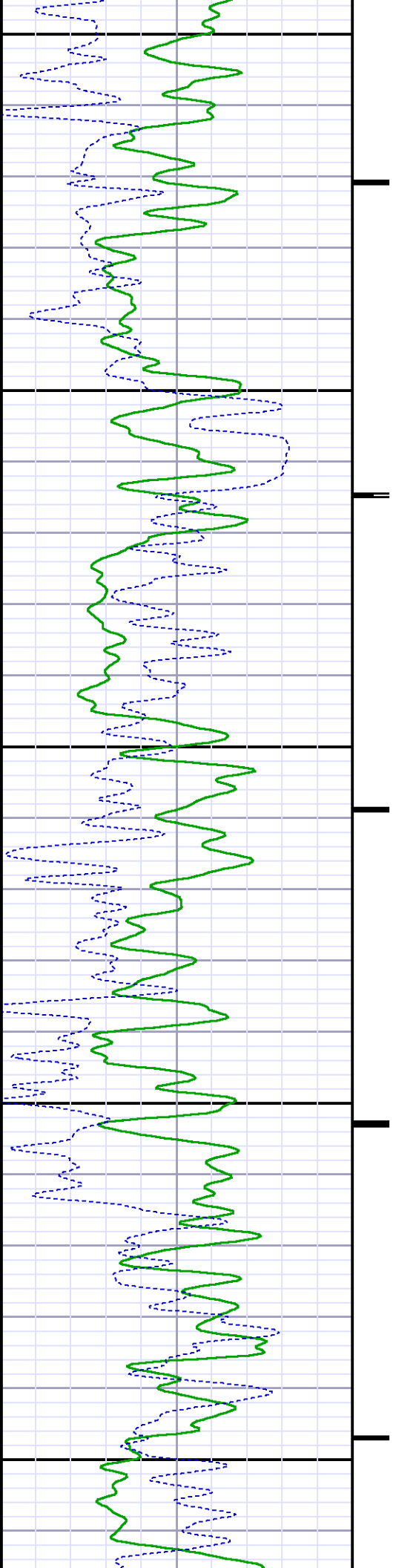


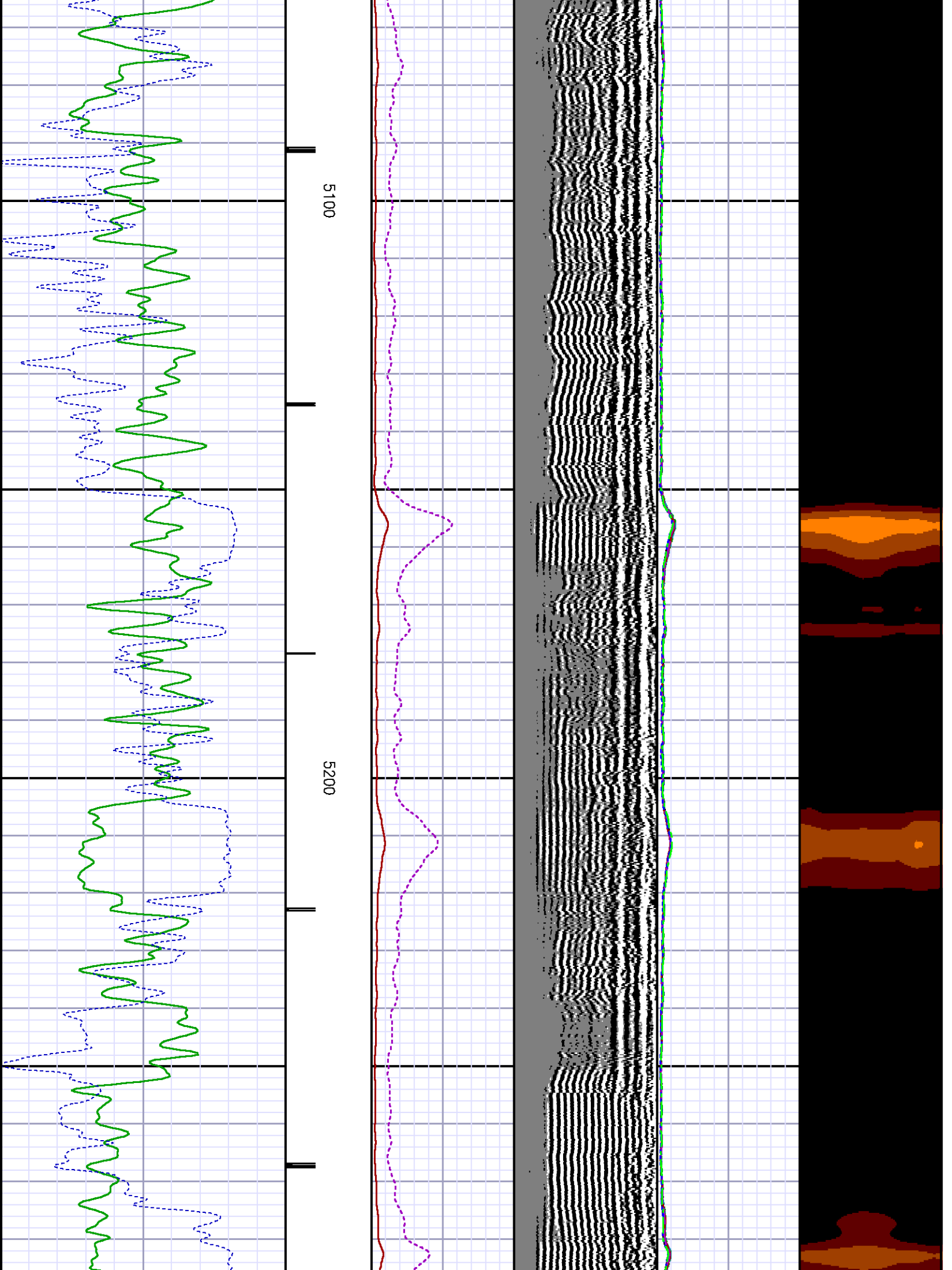


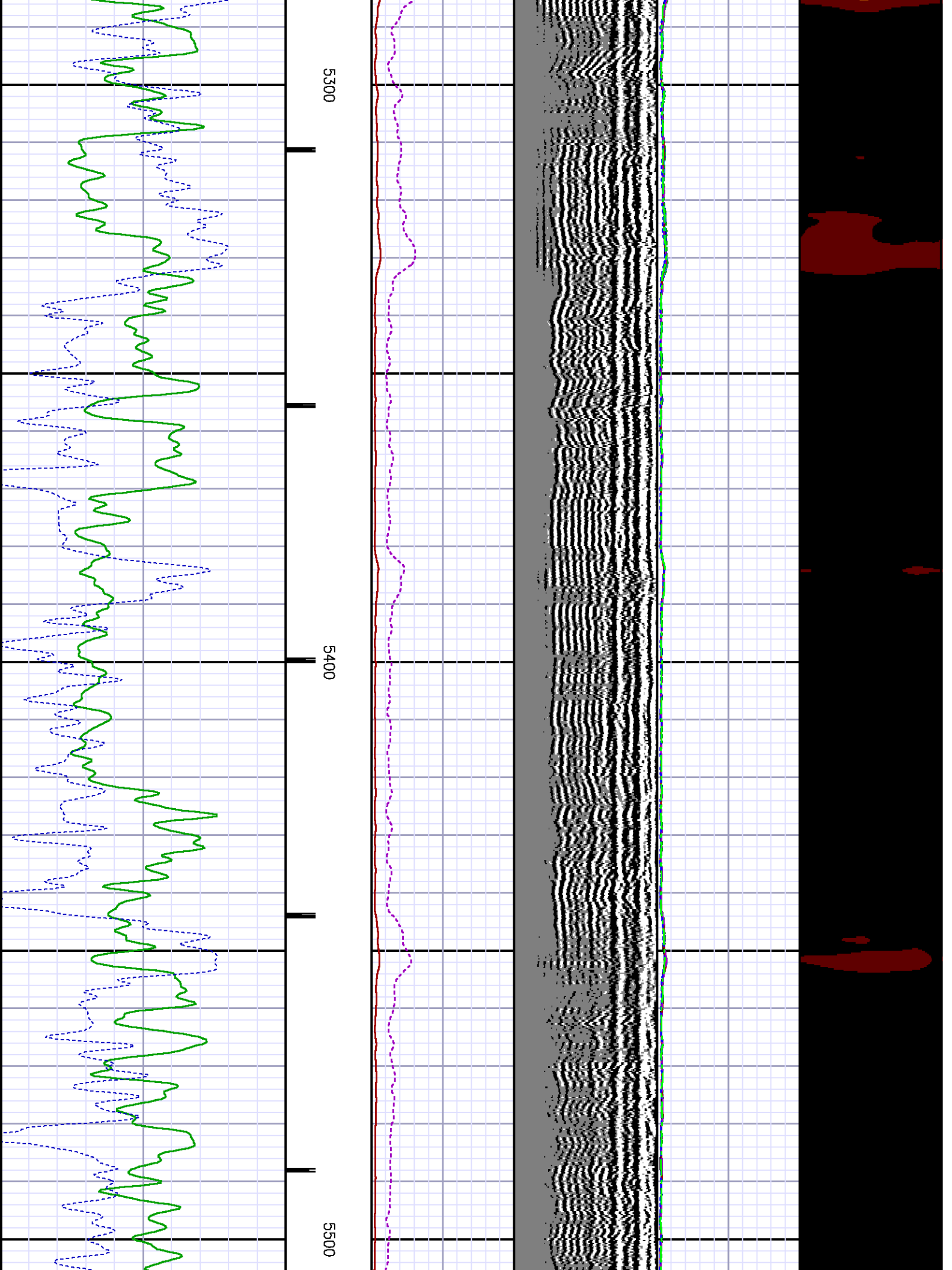


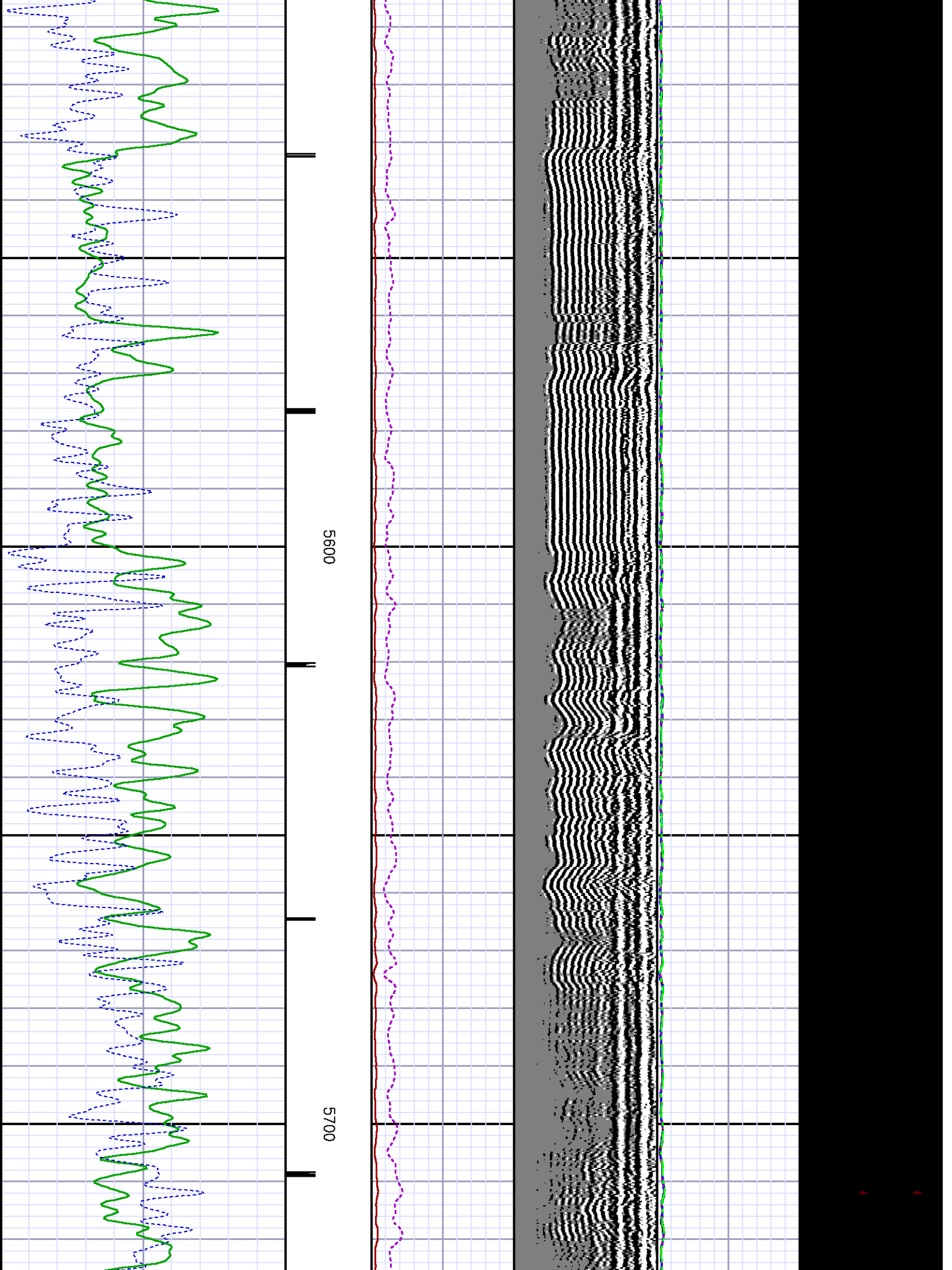
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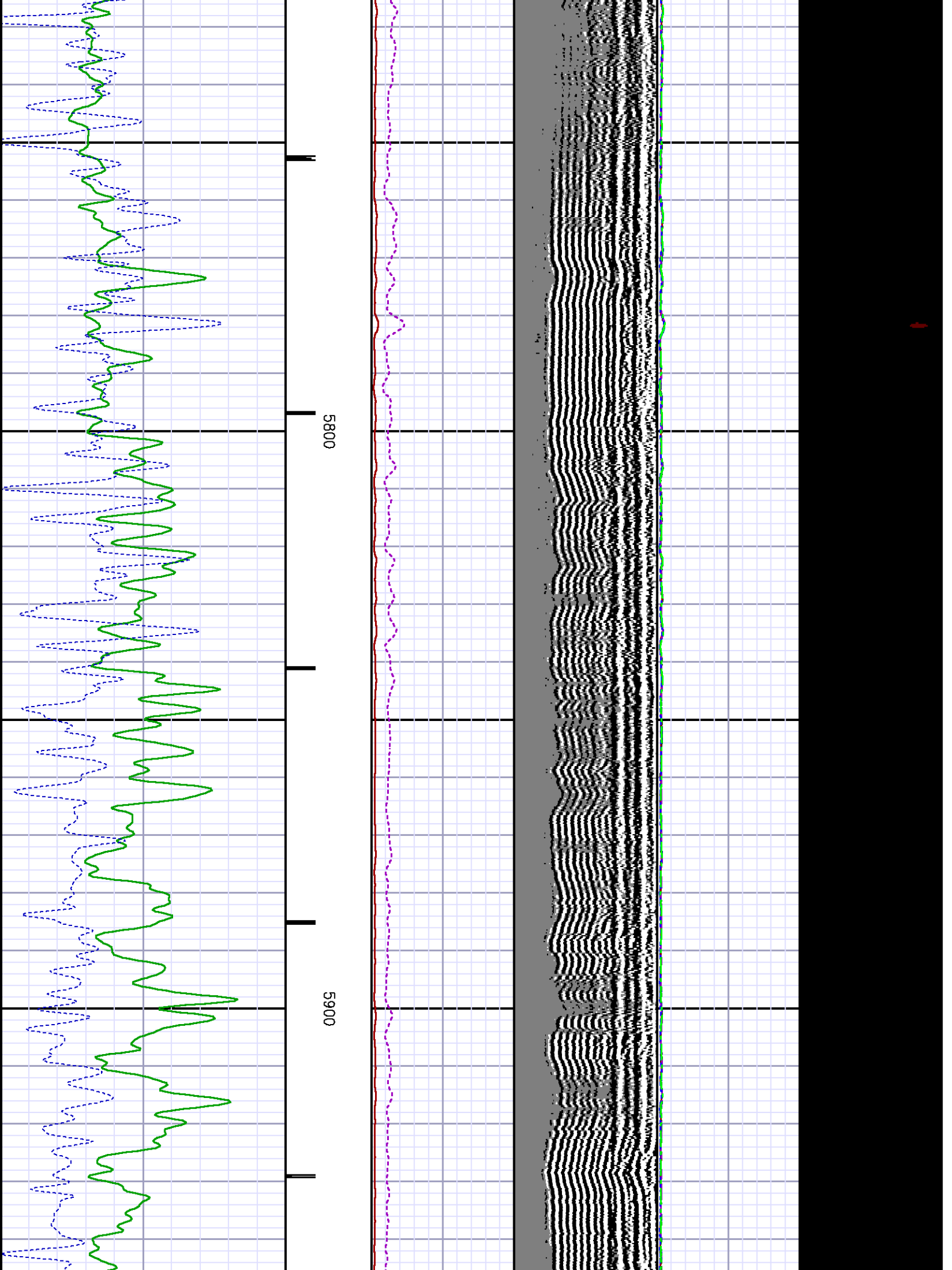
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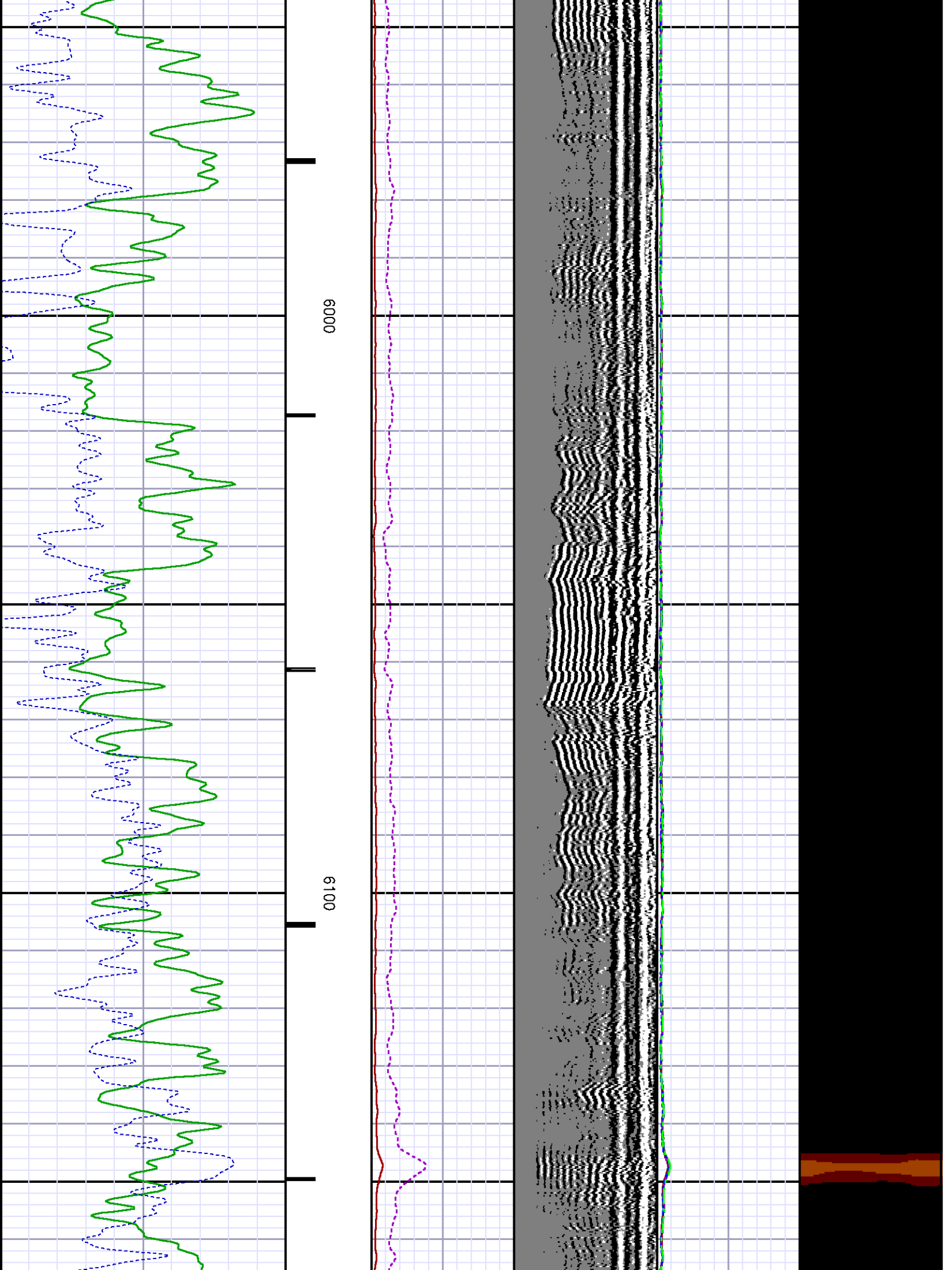


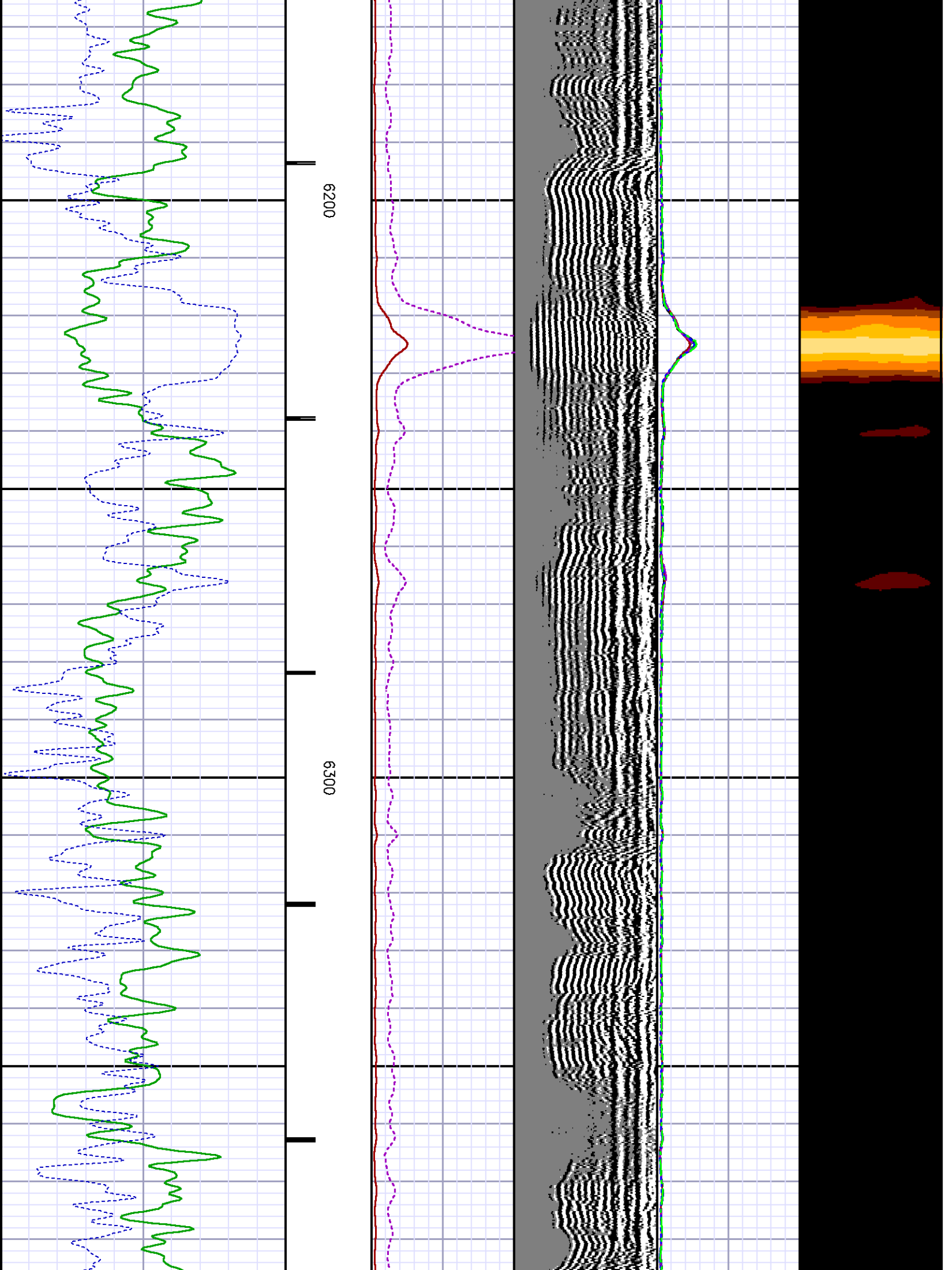


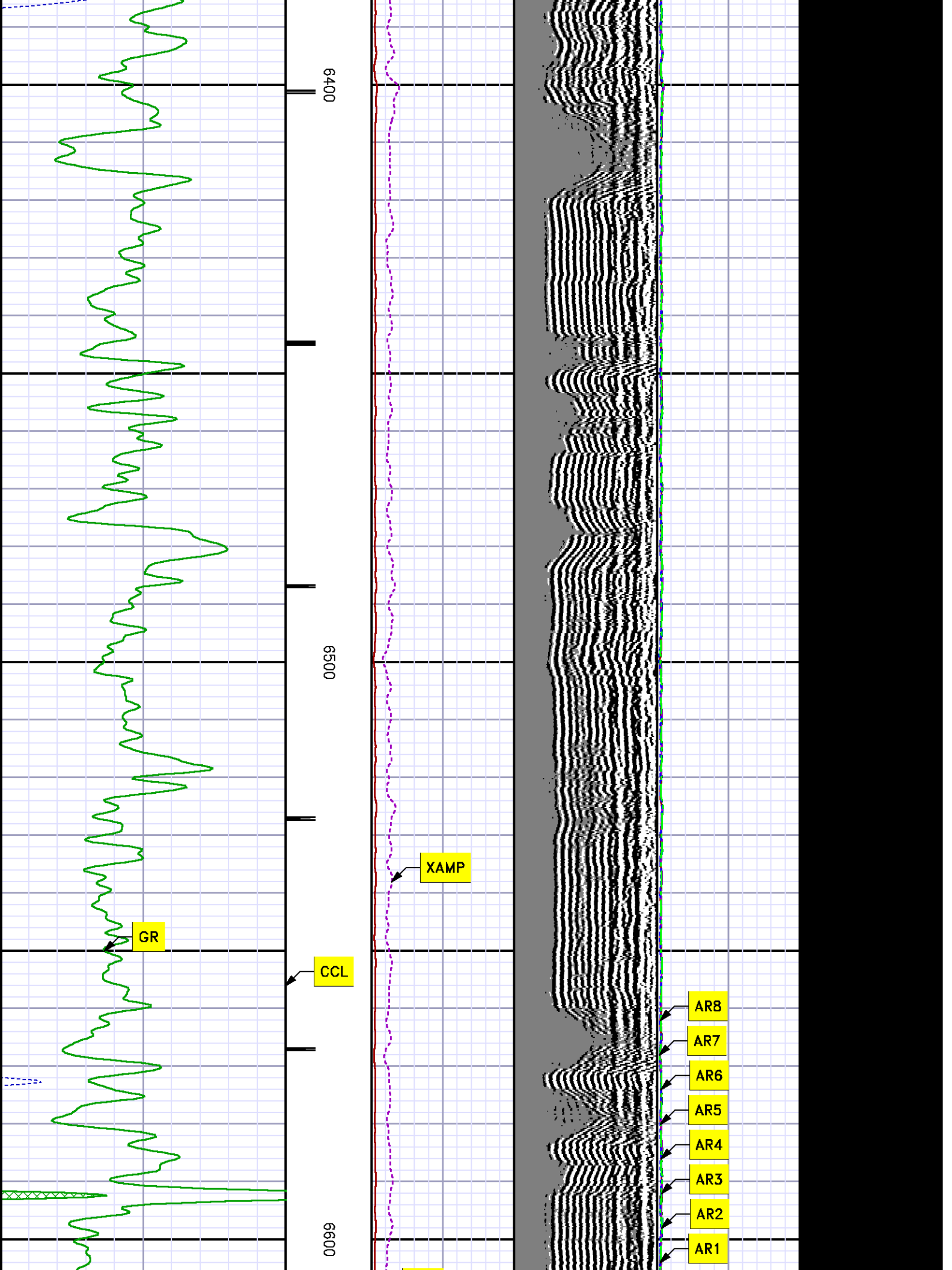


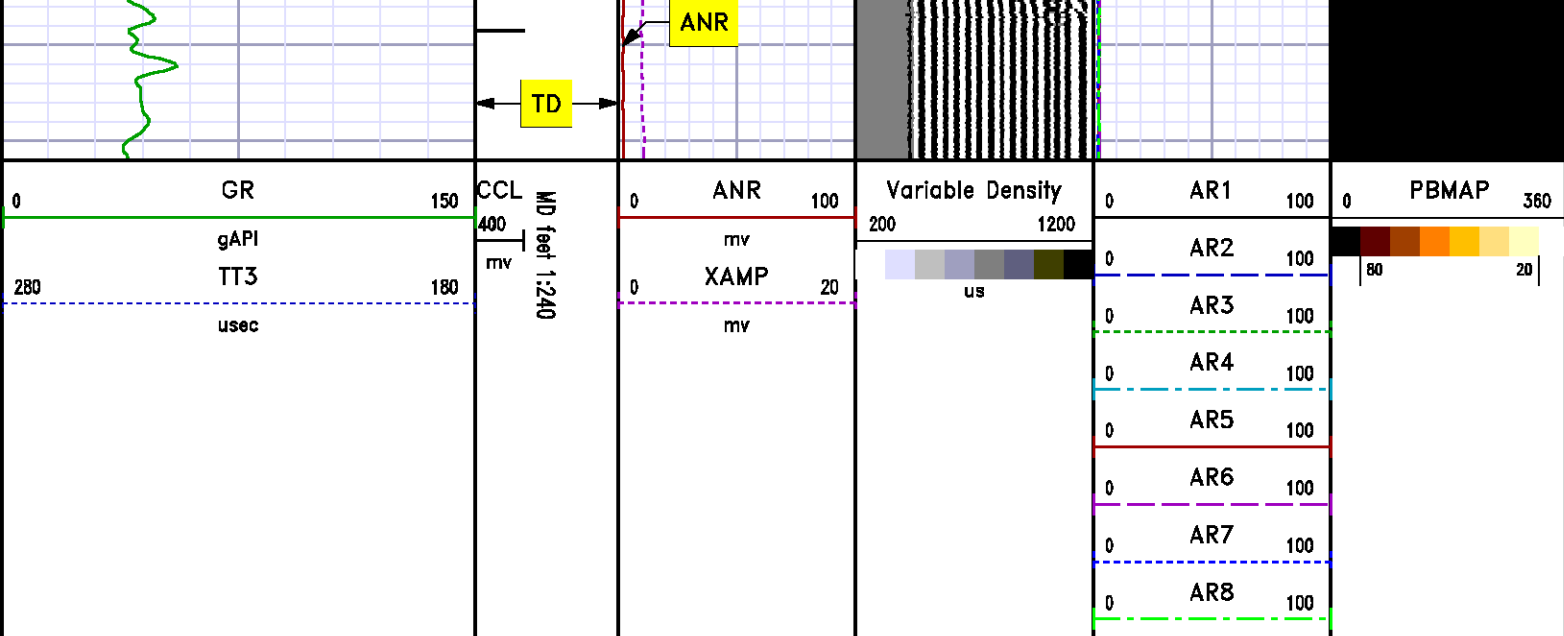












REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	6307.850	6634.100
RAL	Amp Gate Start Near	195.000	usec	6307.850	6634.100
RAL	Amp Gate Start Radial	195.000	usec	6307.850	6634.100
RAL	Amp Gate Width Far	25.000	usec	6307.850	6634.100
RAL	Amp Gate Width Near	25.000	usec	6307.850	6634.100
RAL	Amp Gate Width Radial	25.000	usec	6307.850	6634.100
RAL	casing od	4.500	inches	6307.850	6634.100
RAL	casing wt	11.600	lbm/ft	6307.850	6634.100
RAL	FB Start Far	291.900	usec	6307.850	6634.100
RAL	FB Start Near	180.000	usec	6307.850	6634.100
RAL	FB Start Radial	180.000	usec	6307.850	6634.100
RAL	FB Thresh Far	15.000	mv	6307.850	6634.100
RAL	FB Thresh Near	10.000	mv	6307.850	6634.100
RAL	FB Thresh Radial	10.000	mv	6307.850	6634.100
RAL	Fluid Travel Time	200.000	usec/ft	6307.850	6633.600

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

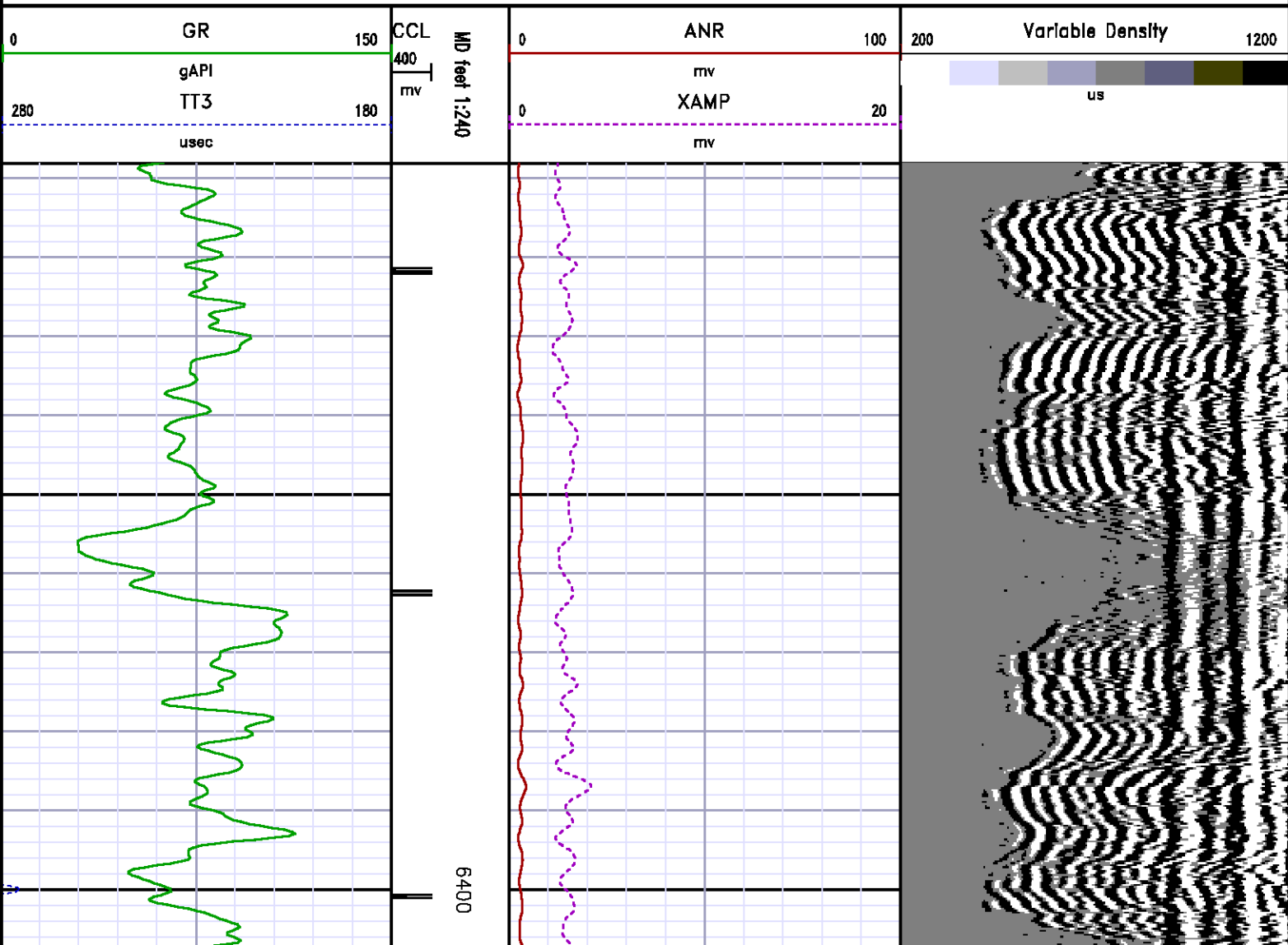
Well : WPX ENERGY GM 424-34

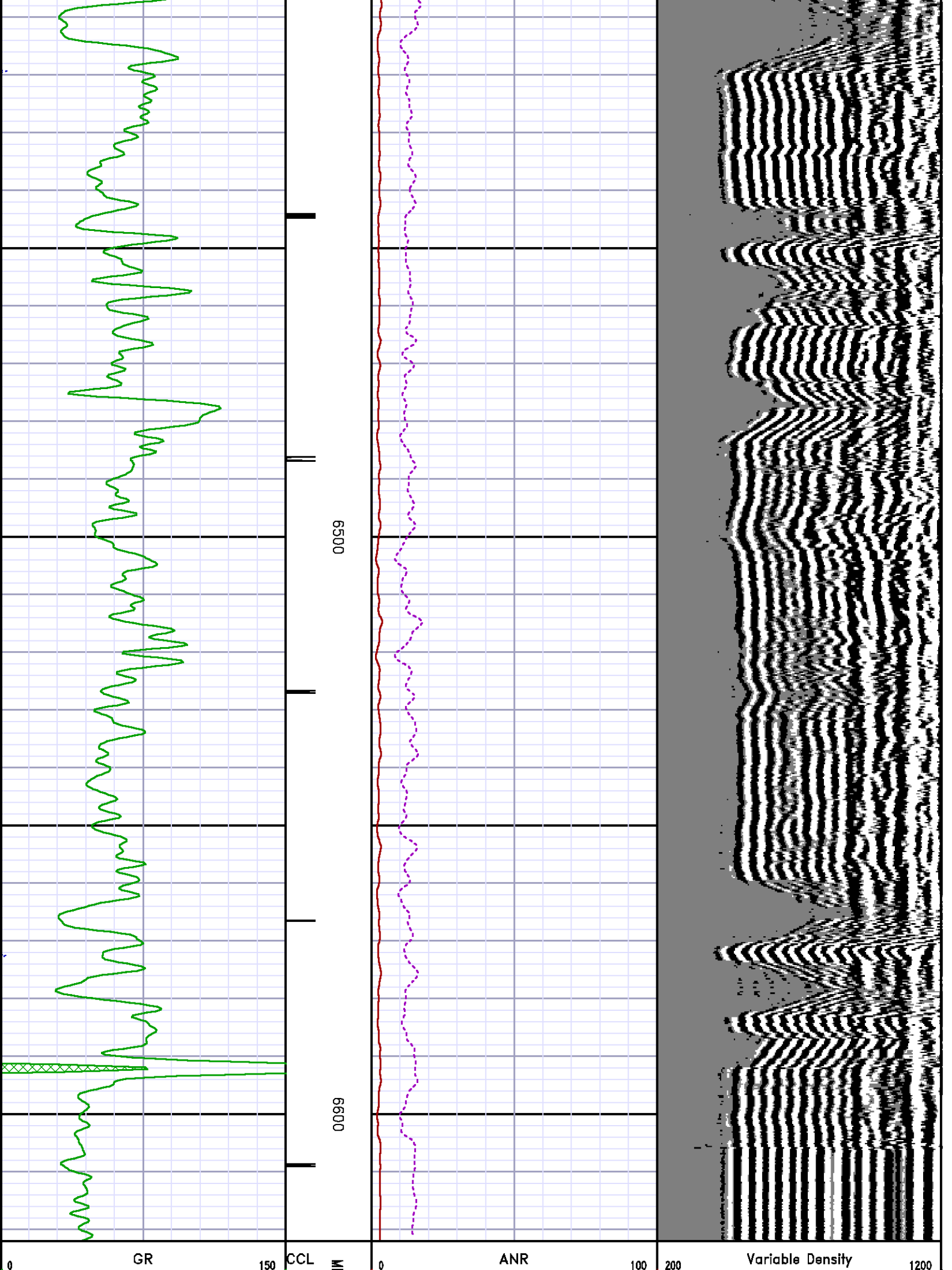
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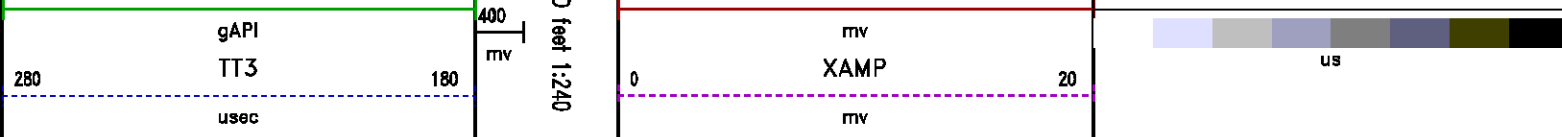
Mode : PlotMgr 5.4.504

Interval : 6308.10 - 6622.00 feet UP

Created : 8/17/2013 8:27:06 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106A16_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Aug 16 07:31:17 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A16

Tool Delay [usec] -58.00 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	218	216	30	166	25	-0.273	100.00	0.21
3 Ft. Receiver	218	216	30	157	25	-0.250	100.00	0.21
5 Ft. Receiver	326	324	30	225	25	0.201	150.00	0.23
Radial #1	217	216	30	166	25	-0.647	100.00	0.21
Radial #2	217	216	30	166	25	-0.044	100.00	0.21
Radial #3	218	216	30	166	25	-0.436	100.00	0.21
Radial #4	218	216	30	166	25	-0.320	100.00	0.21
Radial #5	218	216	30	166	25	-0.200	100.00	0.21
Radial #6	218	216	30	166	25	-0.448	100.00	0.21
Radial #7	216	216	30	166	25	-0.193	100.00	0.21
Radial #8	218	216	30	166	25	-0.130	100.00	0.21

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106A16 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Aug 16 07:33:10 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A16

Tool Delay [usec] -58.00 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	-0.060	0.000	1.03	100.000
3 Ft. Receiver	195	25	-1.884			
5 Ft. Receiver	305	25	-3.120			
Radial #1	195	25	-3.003			
Radial #2	195	25	-2.610			
Radial #3	195	25	-2.282			
Radial #4	195	25	-2.348			
Radial #5	195	25	-2.081			
Radial #6	195	25	-2.142			
Radial #7	195	25	-1.555			
Radial #8	195	25	-1.992			

GAMMA RAY

Calibration File: C:\case\calver\GR\209J3.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED:	Tue Jul 30 08:43:58 2013	TOOL SERIES:	1355XA	ASSET:	209	SEQ:	J3
Calibrator #	Background	Calibrator On	Multiplicative	Background	Calibrator On	Differential	
	[cps]	[cps]		[api]	[api]	[api]	
SHOP JIG	113.02	548.53	0.425	48.01	233.01	185.00	

Verification File: C:\case\calver\GR\209J3.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED:	Tue Jul 30 08:46:06 2013	TOOL SERIES:	1355XA	ASSET:	209	SEQ:	J3
Calibrator #	Background	Calibrator On	Multiplicative	Background	Calibrator On	Differential	
	[cps]	[cps]		[api]	[api]	[api]	
SHOP JIG	112.22	543.20	0.425	47.67	230.74	183.07	

TOOL DIAGRAM

OTA SHORT CABLE HEAD

18.89'

PROBE 2 3/4 DUAL RECEIVER RADII

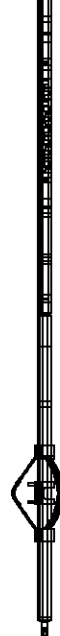
Series 1426XA
Mnemonic PROB
0.75"



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



XMIT	12.71'
NEAR RCVR	9.63'
FAR RCVR	7.71'
CCL	5.79'
GR	1.67'
TEMP	0.17'
	0.00'

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



Baker Atlas

CASE

Company

WPX ENERGY

Well

WPX ENERGY GM 424-34

Field

GRAND VALLEY

County

GARFIELD

State

COLORADO

Location

SHL: 1960' FSL X 2167' FWL

BHL: 647' FSL X 1488' FWL (SESW)

SEC 34

TWP 6S

RGE 96

Elevations

KB 5381.5 ft

DF

GL 5355.5 ft

File No:

CH075720

API No:

05045193060000

34-6S-96W

GM 23-34 PAD

NABORS 574