



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: **Company** **WPX ENERGY**

CH085273 **Well** **WPX ENERGY PA 424-2**

API No: **Field** **PARACHUTE**

05045221460000 **County** **GARFIELD** **State** **COLORADO**

Location

SHL: 2008' FSL & 1571' FWL

BHL: 521' FSL & 1942' FWL (SESW)

SEC **2** **TWP** **7S** **RGE** **9SW**

Other Services

RPM

Permanent Datum **GL** **Elevation** **5821 ft**

Log Measured From **KB** **25 ft** **Above P. D.**

Drill Measured From **KELLY BUSHING**

Elevations

KB **5846 ft**

DF

GL **5821 ft**

Date	30/APR/14	
Run	ONE	
Service Order	US085273J	
Depth Driller	7711 ft	
Depth Logger	7688 ft	
Bottom Logged Interval	7678 ft	
Top Logged Interval	25 ft	
Time Started	0700	
Time Finished	1000	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	69 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	65 fpm	
Maximum Recorded Temperature	225 degF	
Reference Log	NONE	
Reference Log Date	NA	
Equipment No.	Location	GRAND UCT
Recorded By	FLOYD RENEAU	
Witnessed By	DUSTIN WELSH	

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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	25 ft	937 ft
8.75 in	937 ft	7711 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			25 ft	937 ft
4.5 in	11.6 lbm/ft	I-80	25 ft	7711 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 12 feet.
Logged with zero PSI at wellhead.
BHT = 225°F
SJ = 4329'-4343'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10218496	CENT
1	1	GR/CCL	2459XA	10417456	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.468	7693.000
RAL	Amp Gate Start Near	195.000	usec	35.468	7693.000
RAL	Amp Gate Start Radial	195.000	usec	35.468	7693.000
RAL	Amp Gate Width Far	25.000	usec	35.468	7693.000
RAL	Amp Gate Width Near	25.000	usec	35.468	7693.000
RAL	Amp Gate Width Radial	25.000	usec	35.468	7693.000
RAL	casing od	4.500	inches	35.468	7693.000
RAL	casing wt	11.600	lbm/ft	35.468	7693.000
RAL	FB Start Far	291.900	usec	35.468	7693.000
RAL	FB Start Near	180.000	usec	35.468	7693.000
RAL	FB Start Radial	180.000	usec	35.468	7693.000
RAL	FB Thresh Far	10.000	mv	35.468	7693.000
RAL	FB Thresh Near	4.000	mv	35.468	7693.000
RAL	FB Thresh Radial	4.000	mv	35.468	7693.000
RAL	Fluid Travel Time	200.000	usec/ft	35.468	7692.750

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

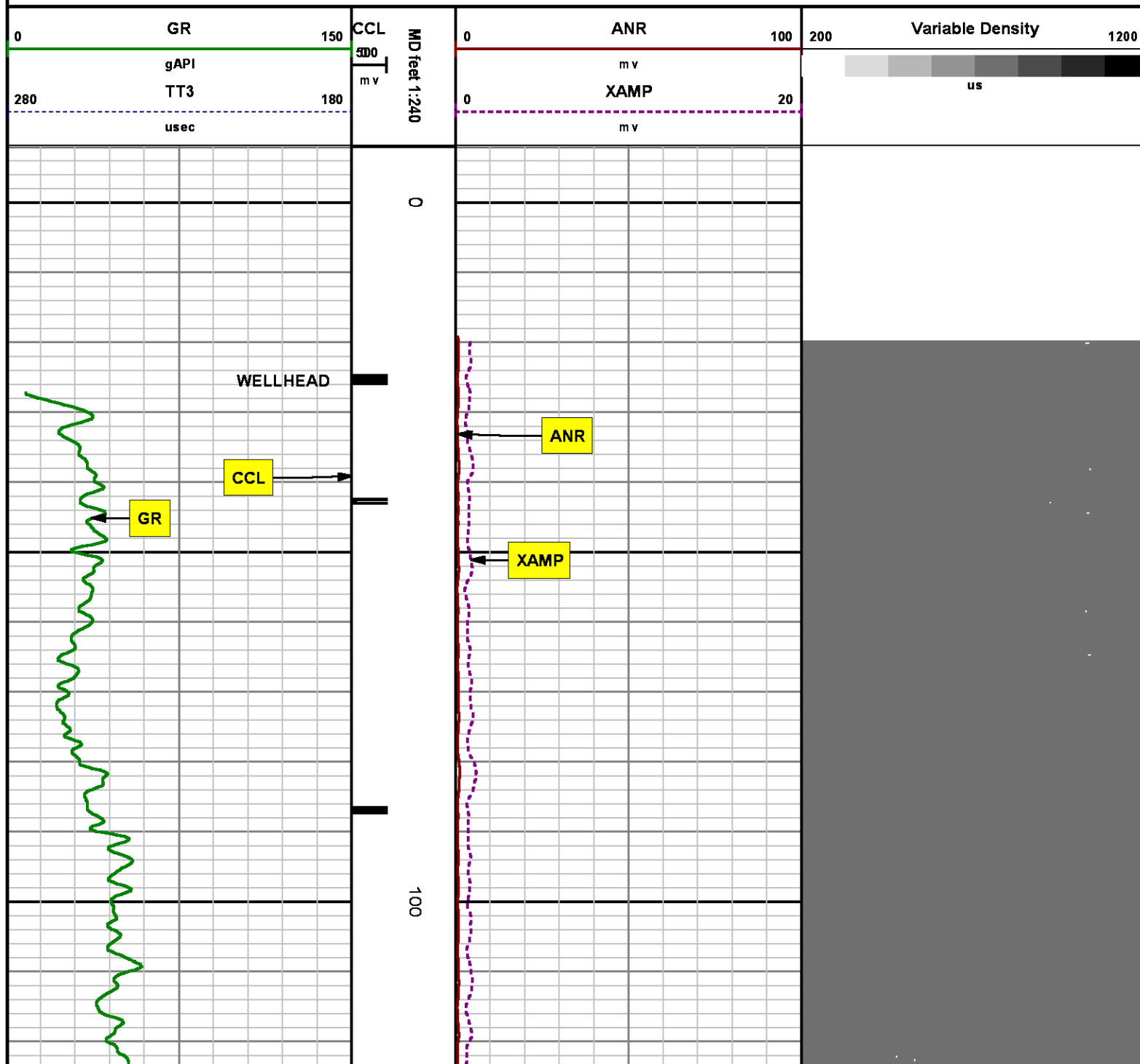
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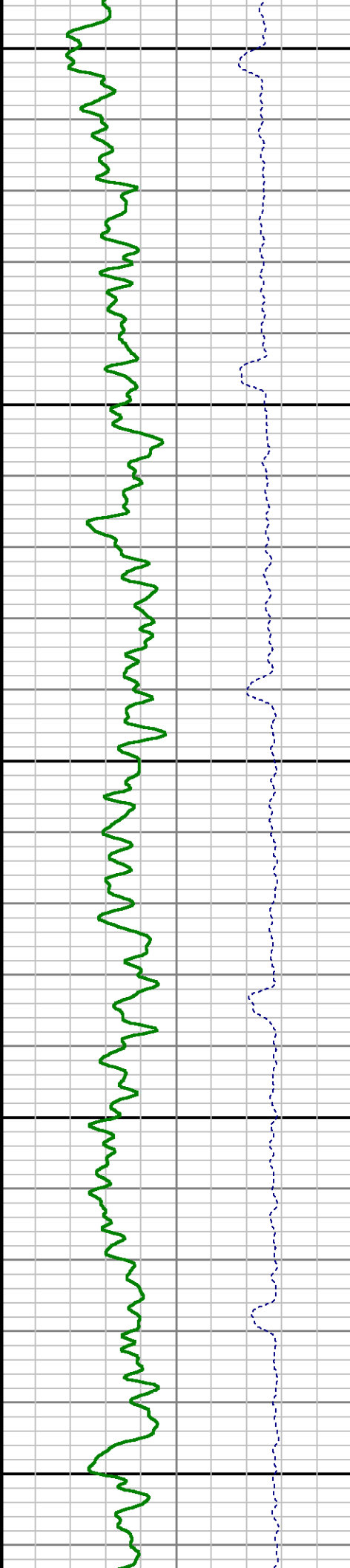
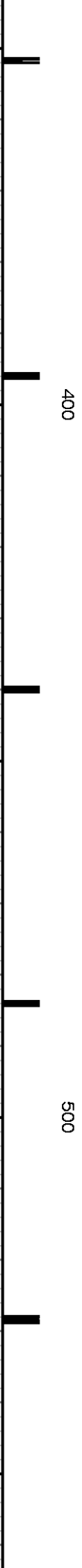
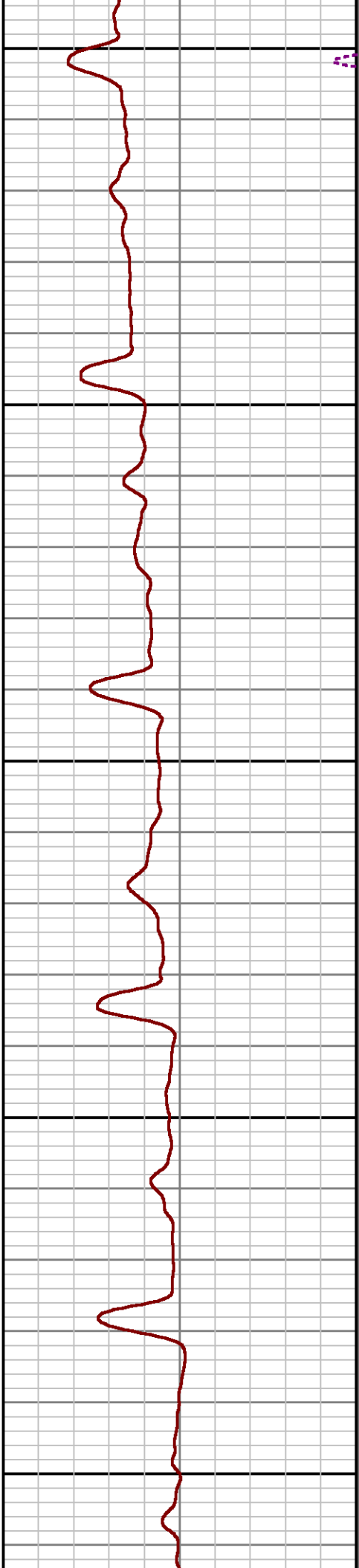
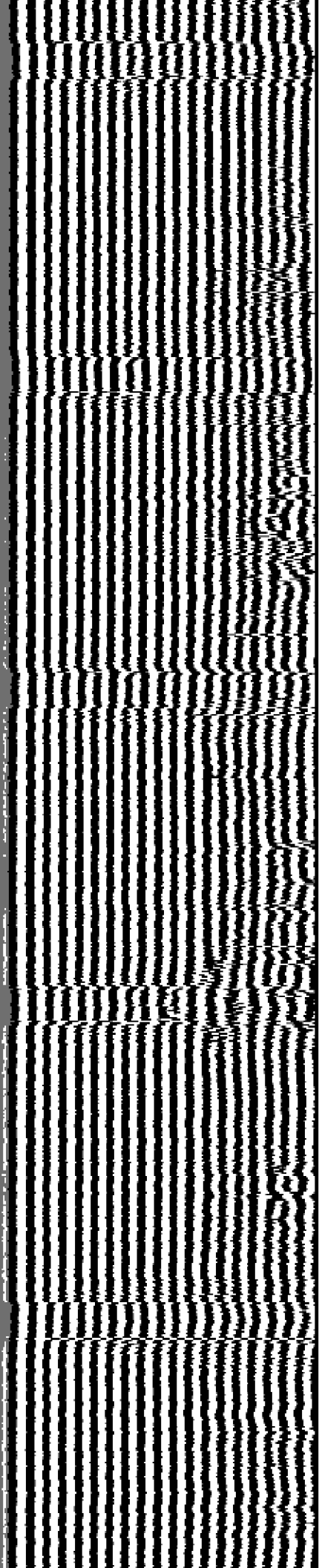
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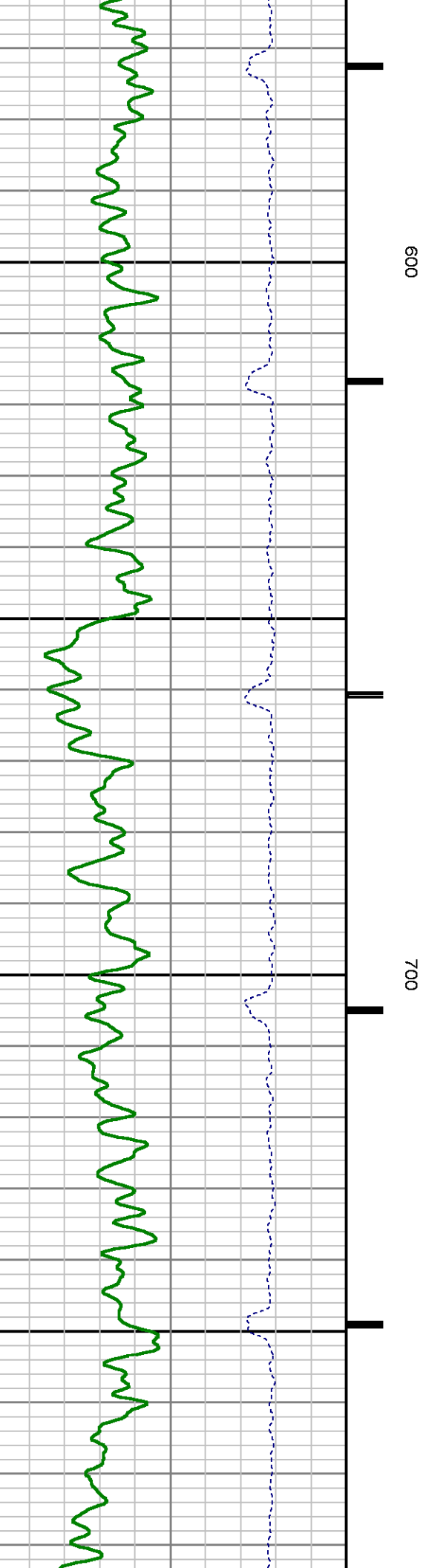
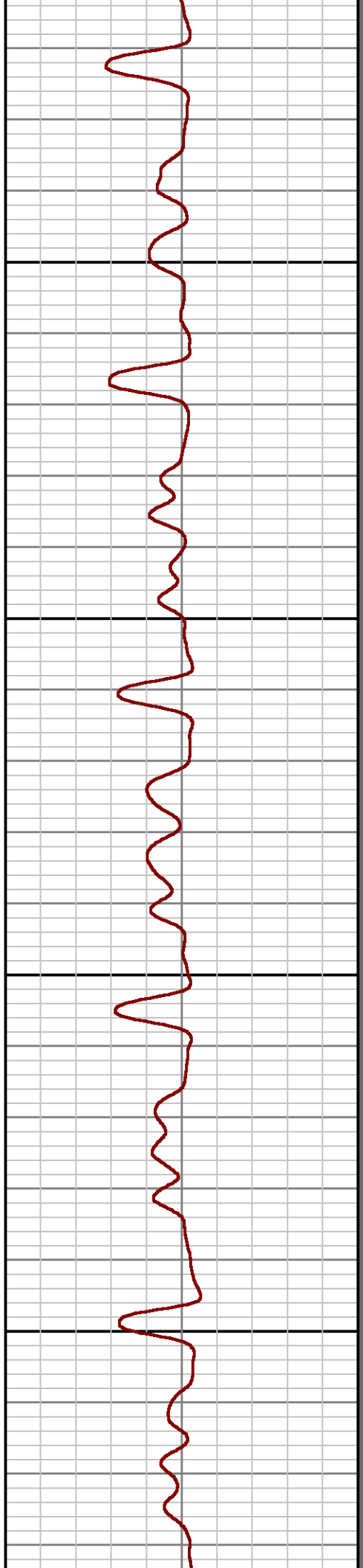
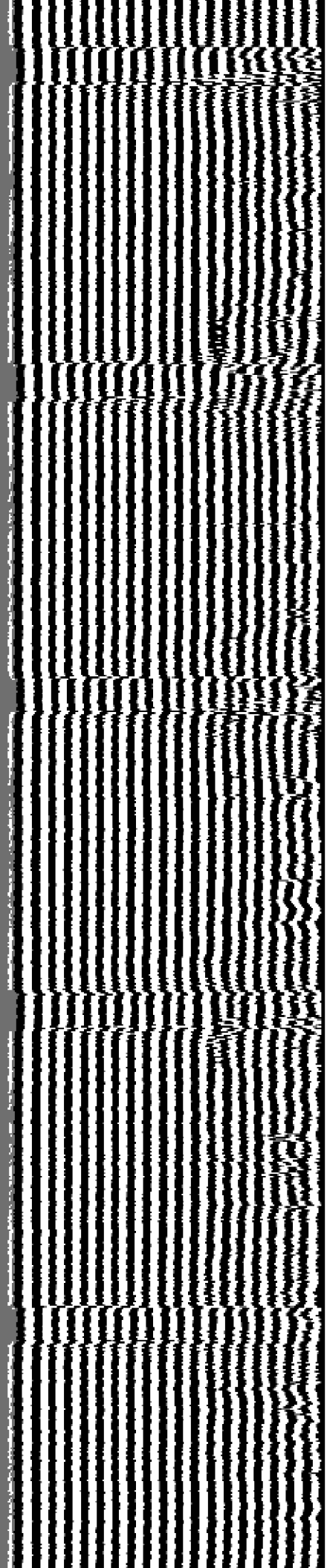
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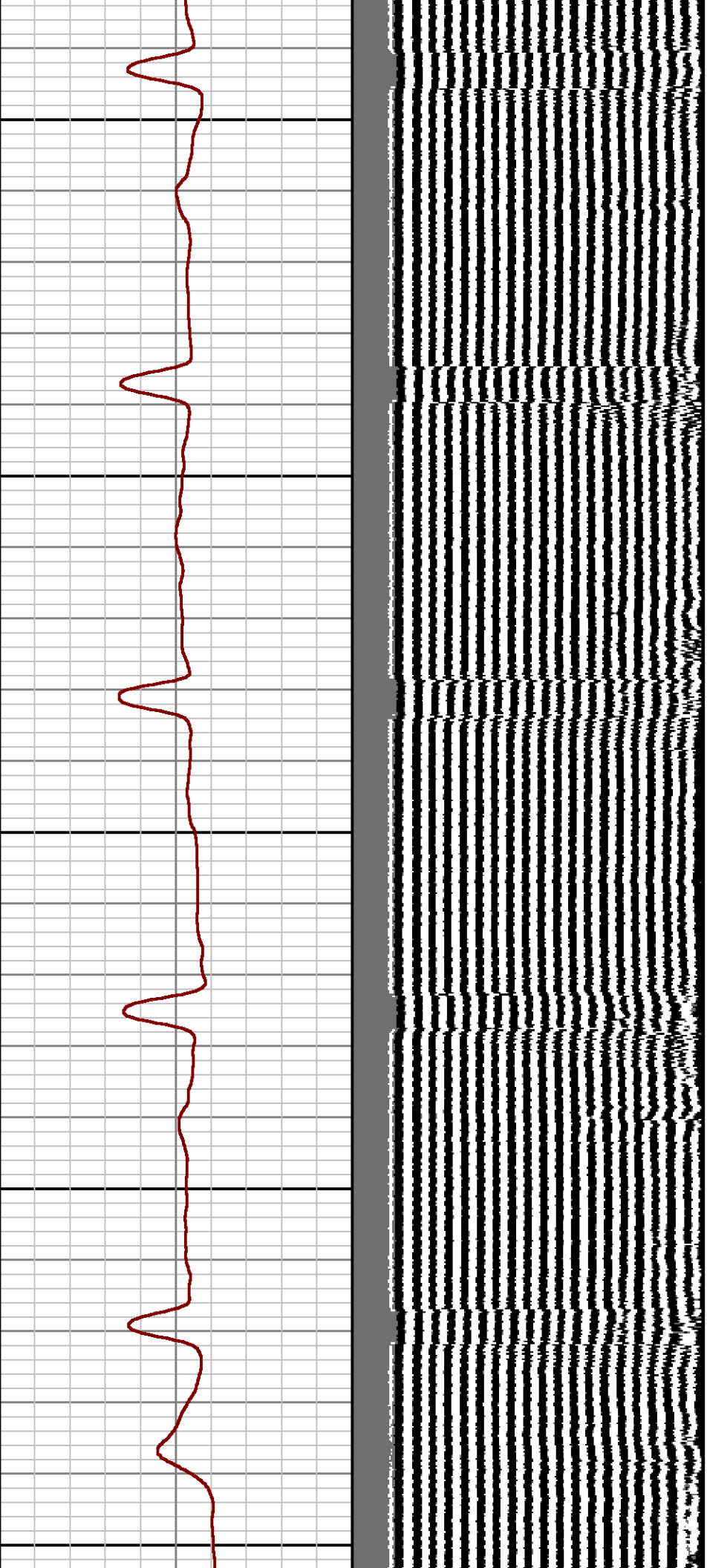
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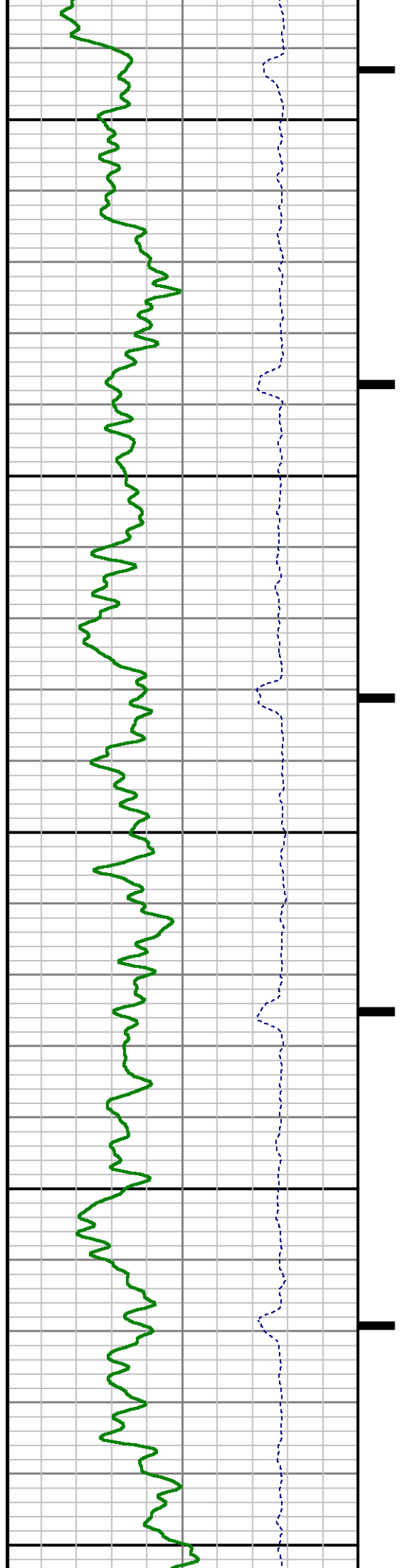


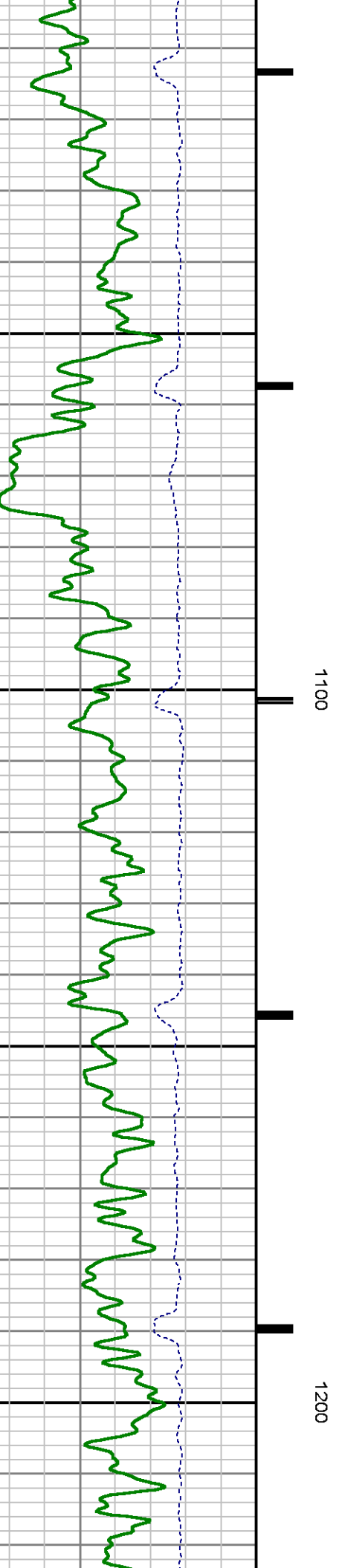
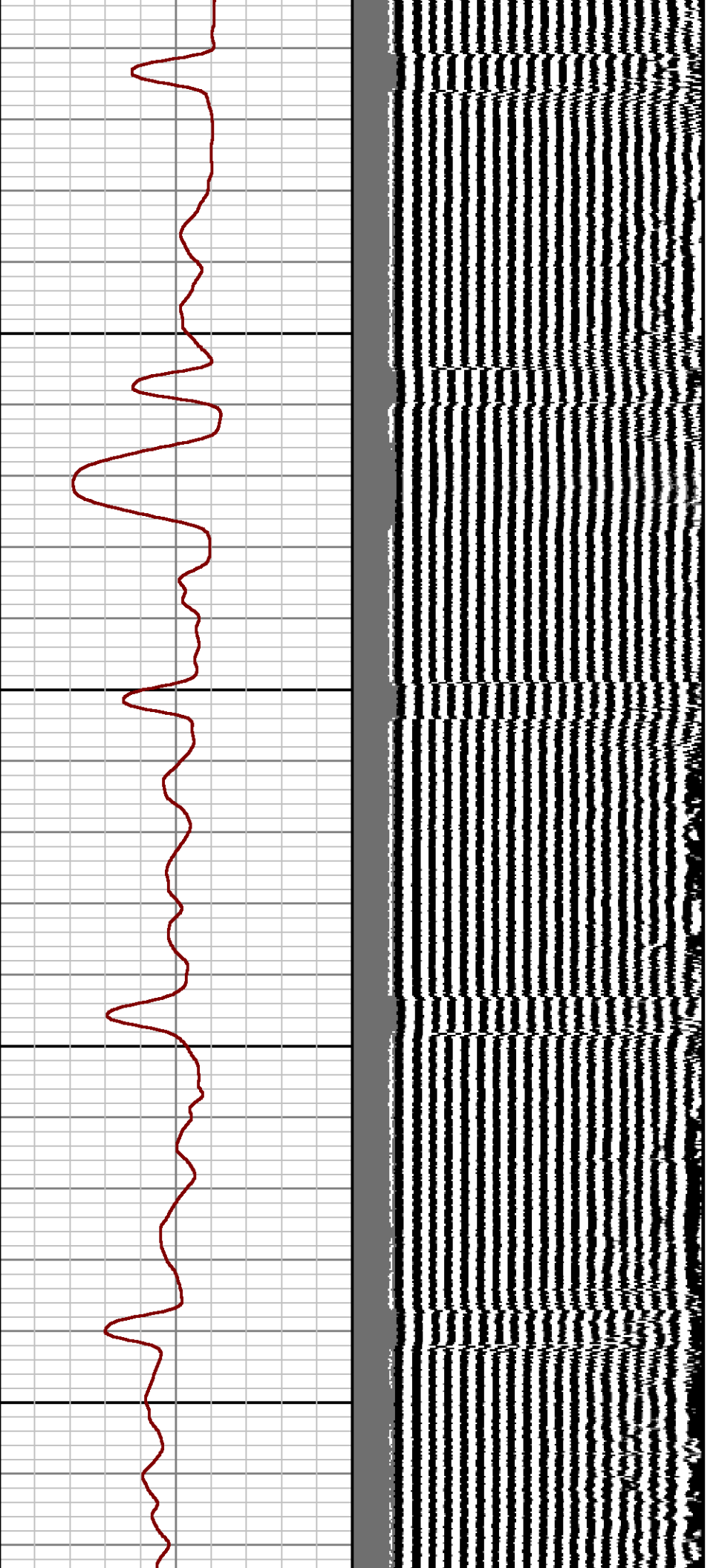


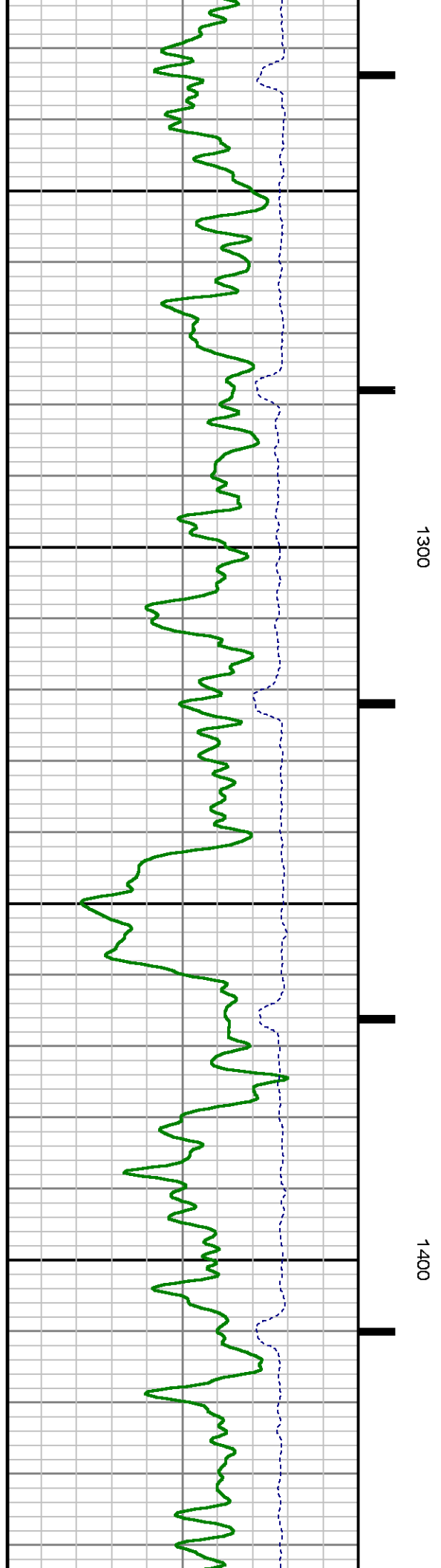
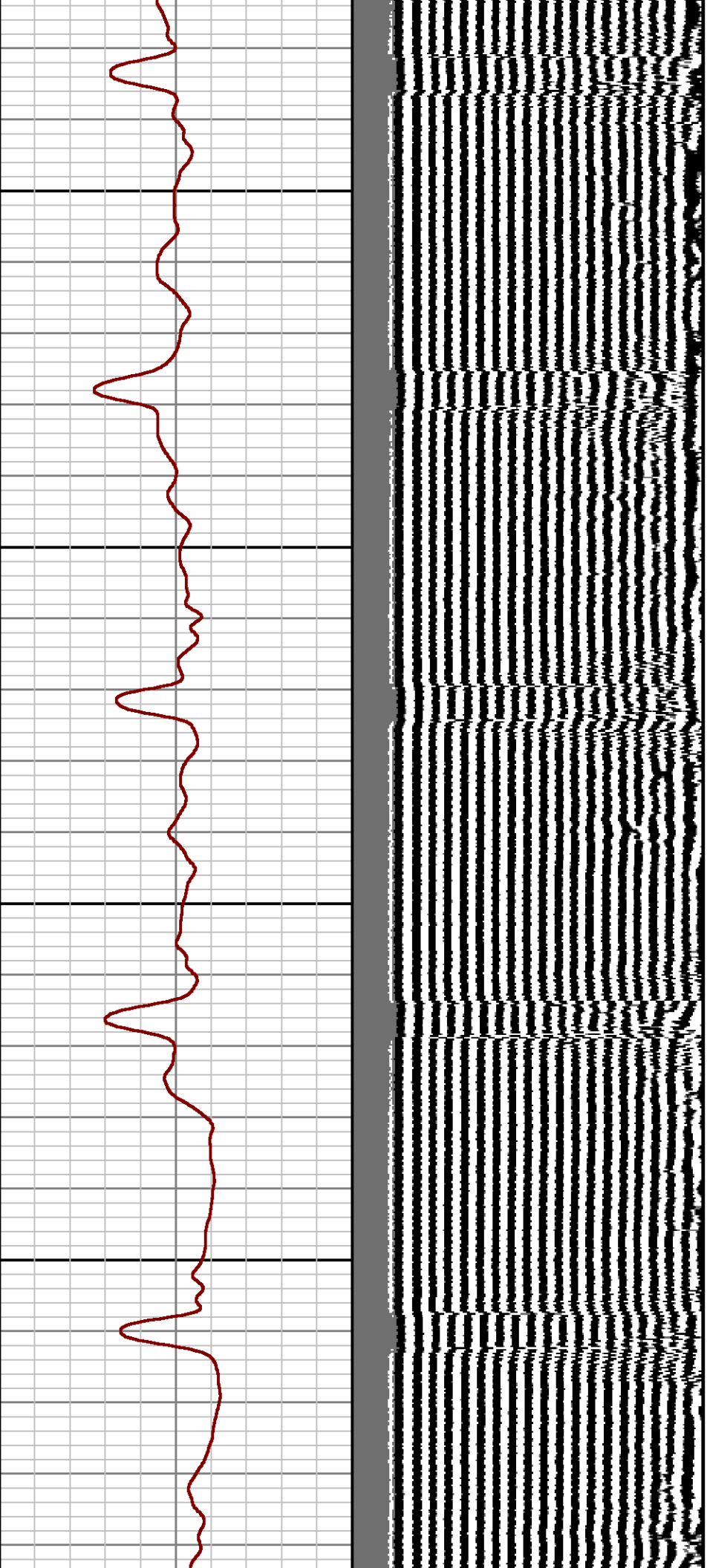
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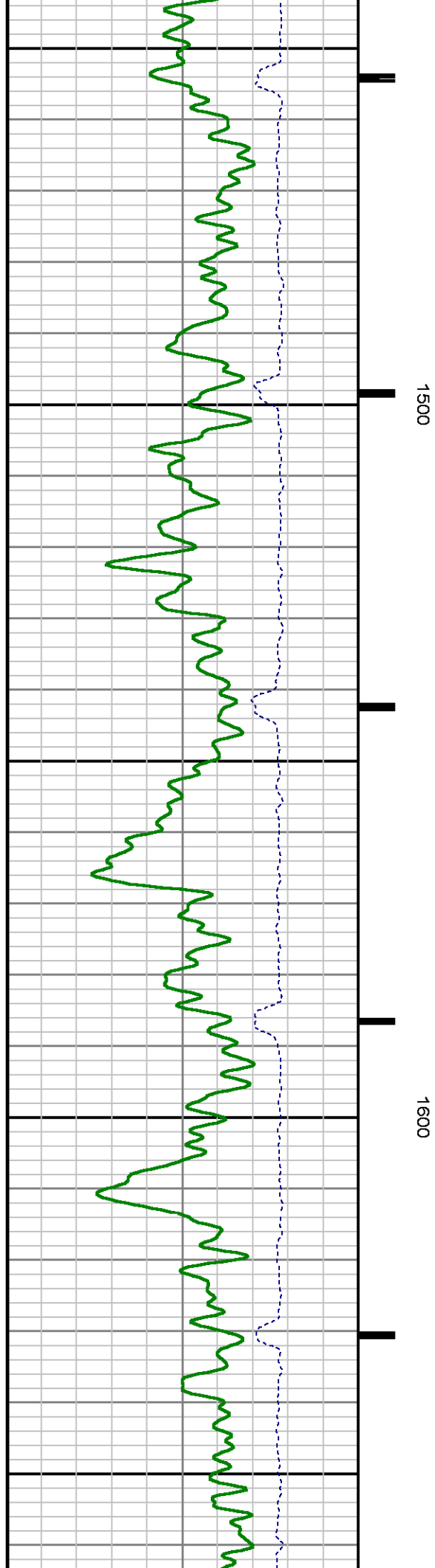
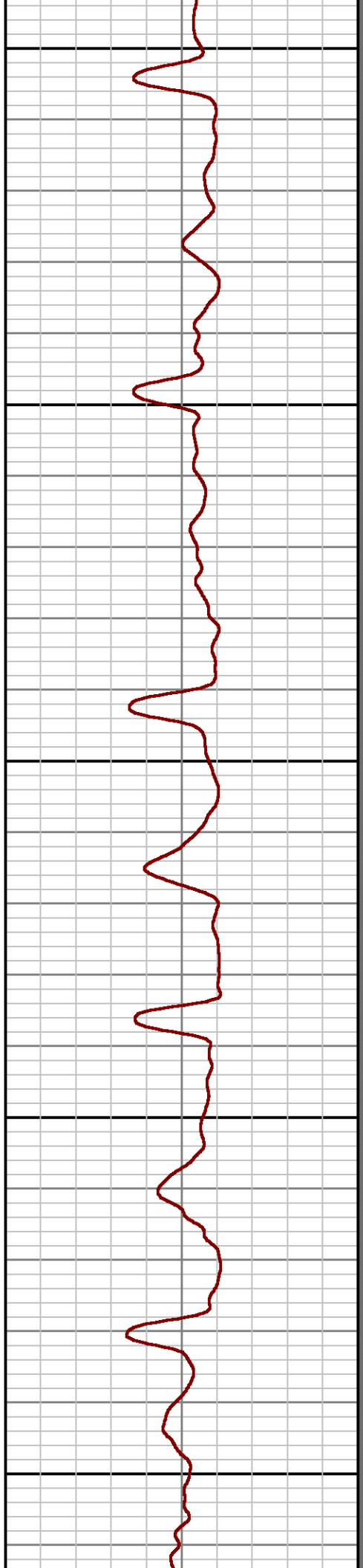
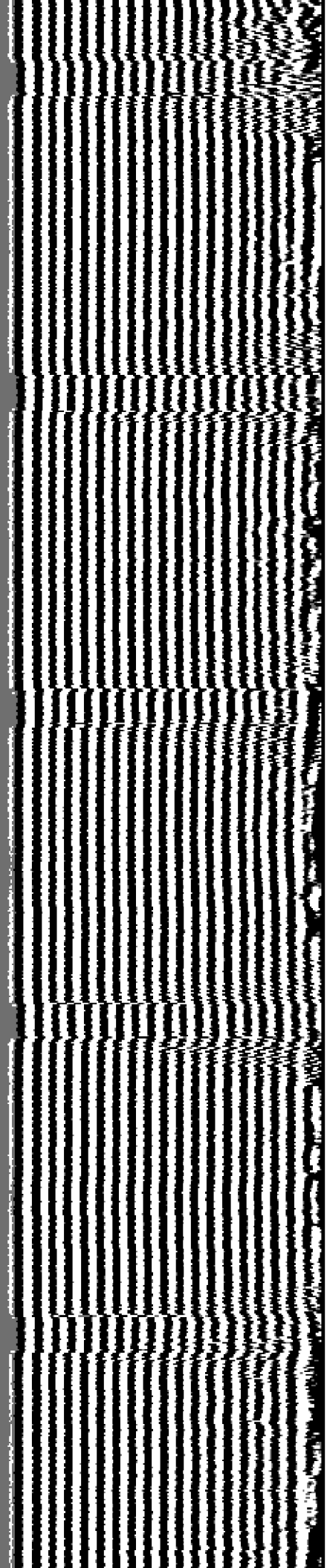
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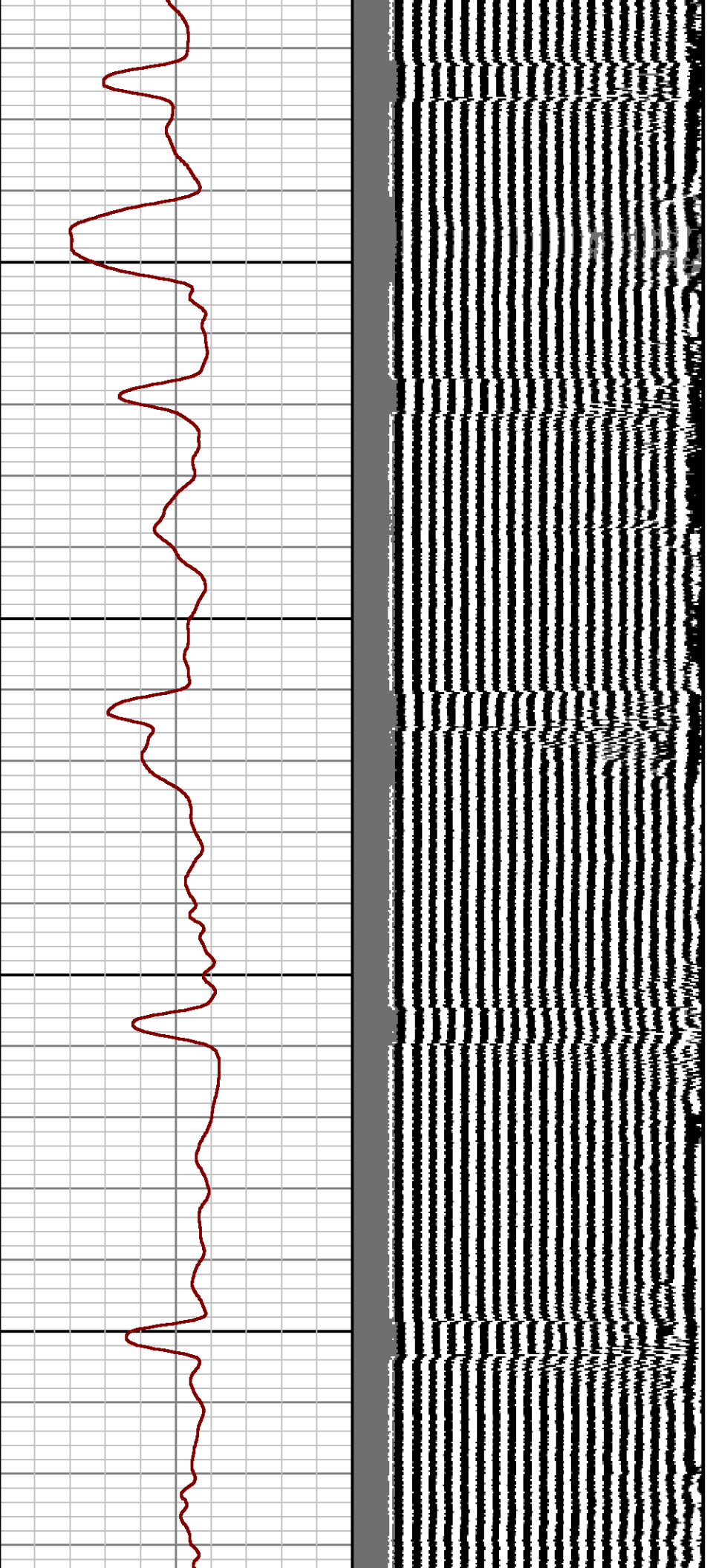
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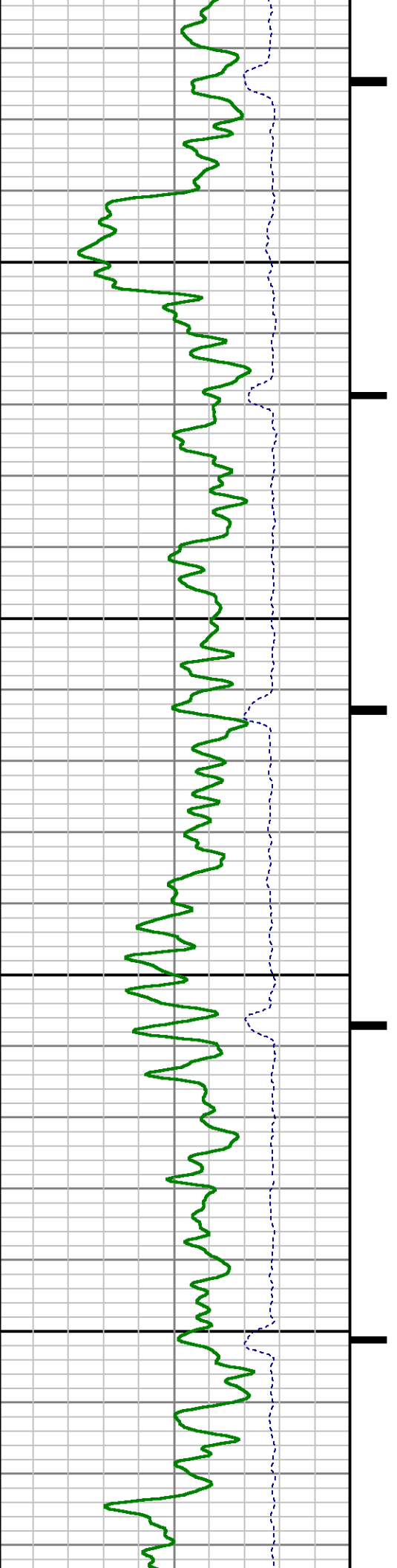


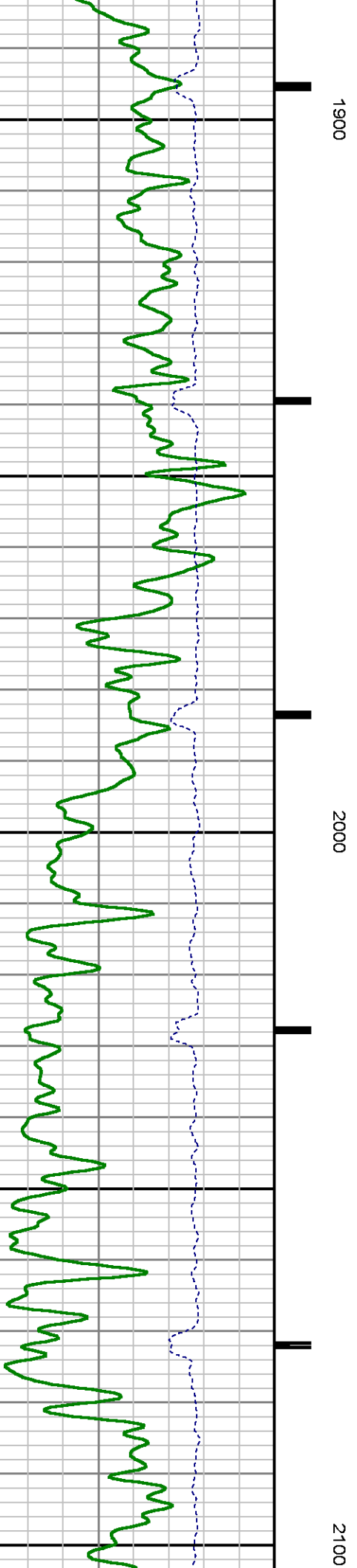
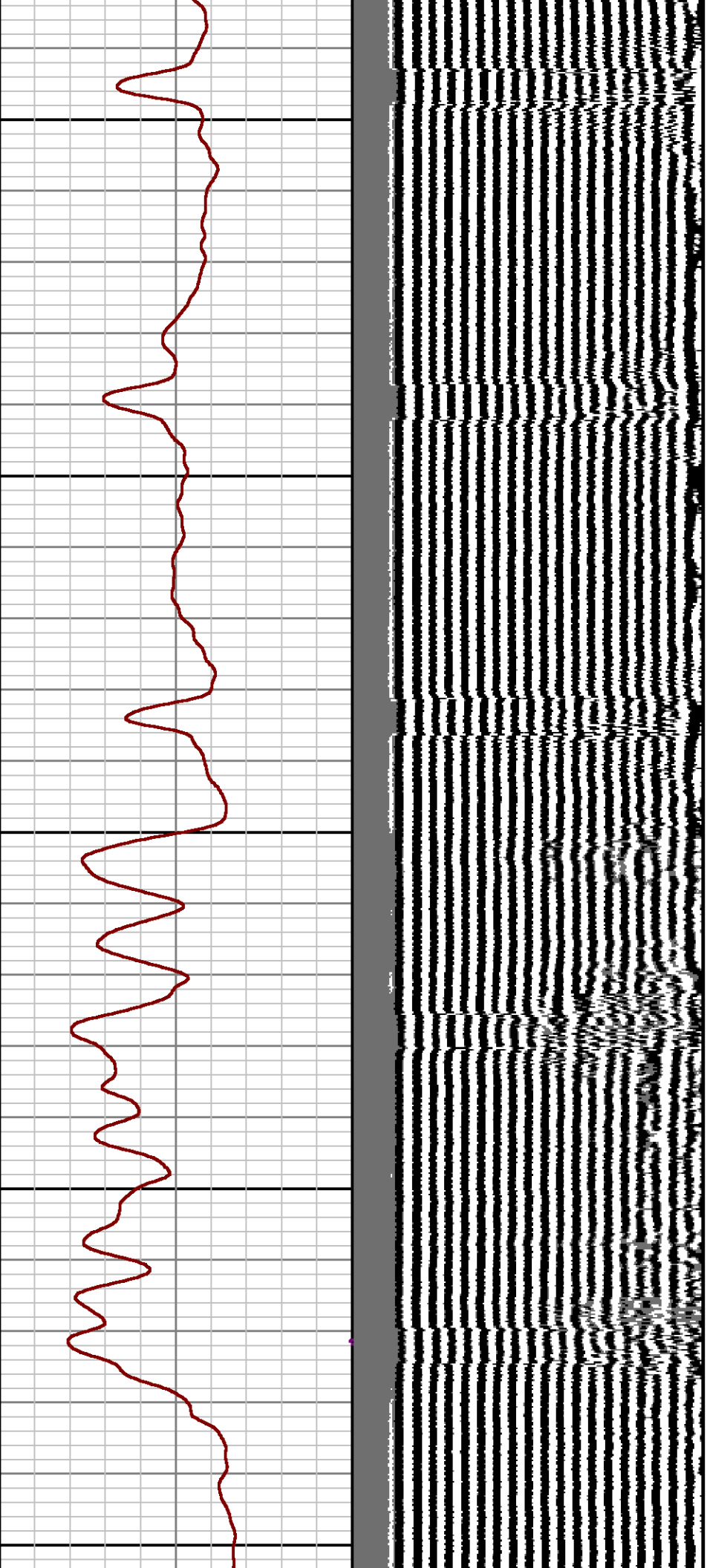


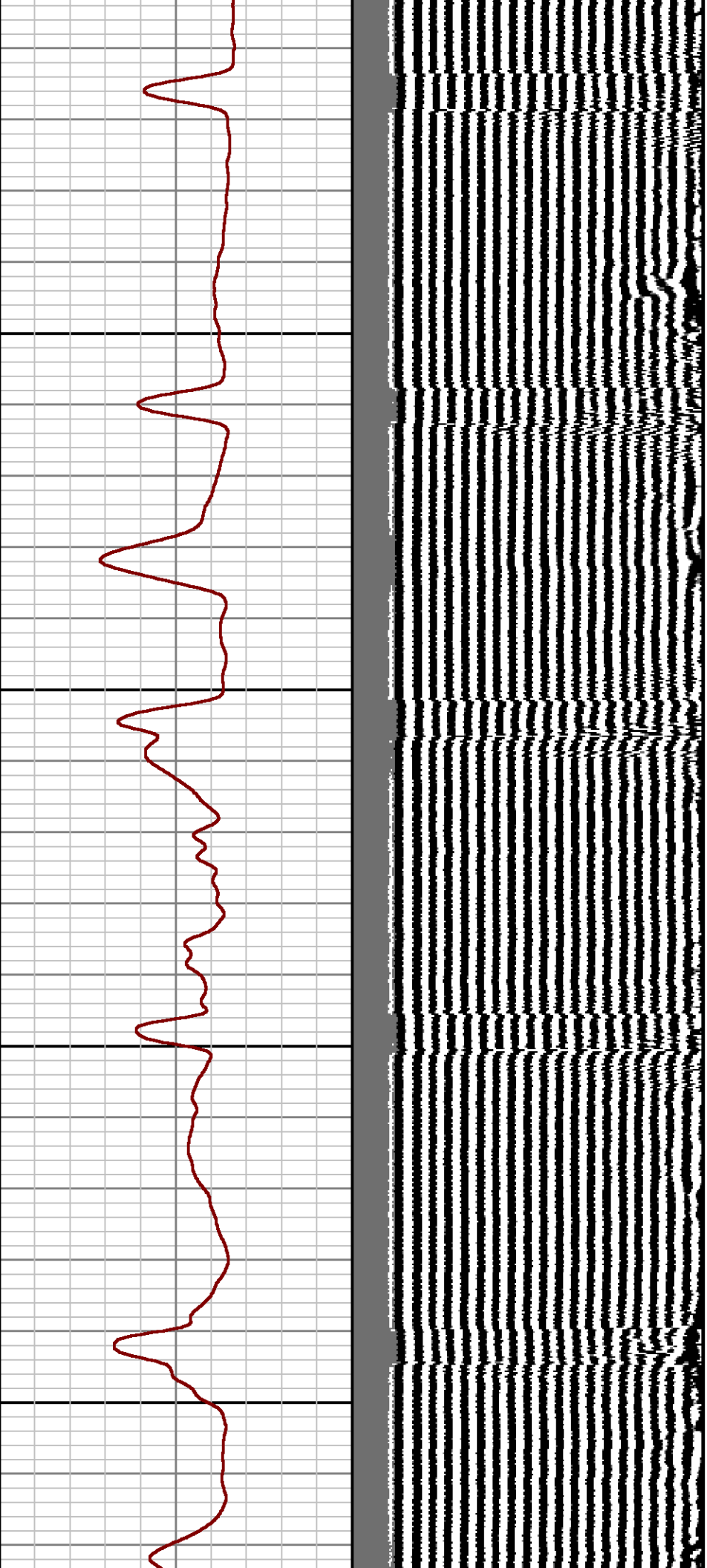


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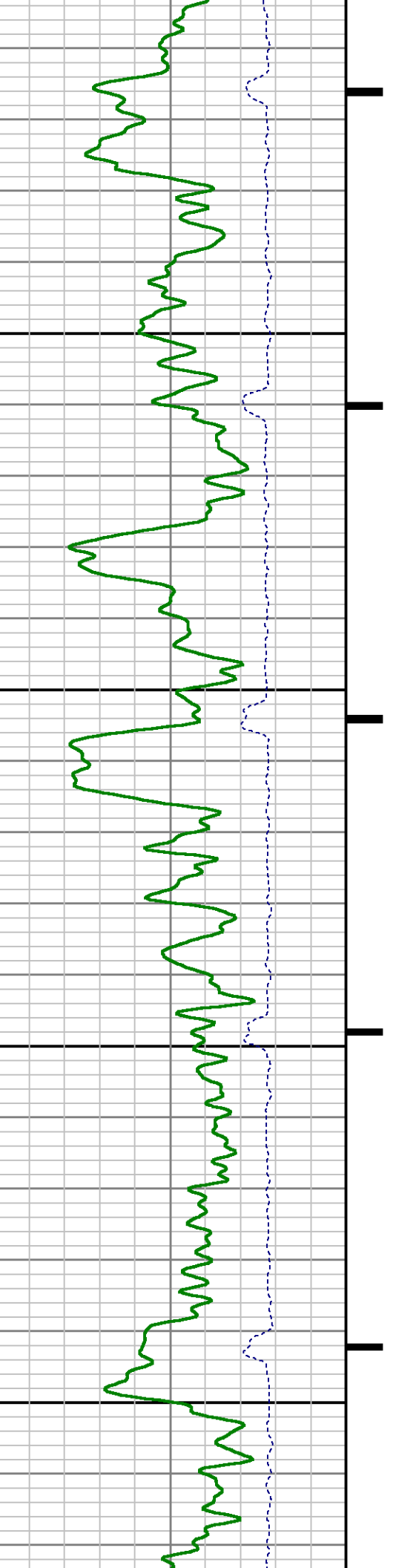


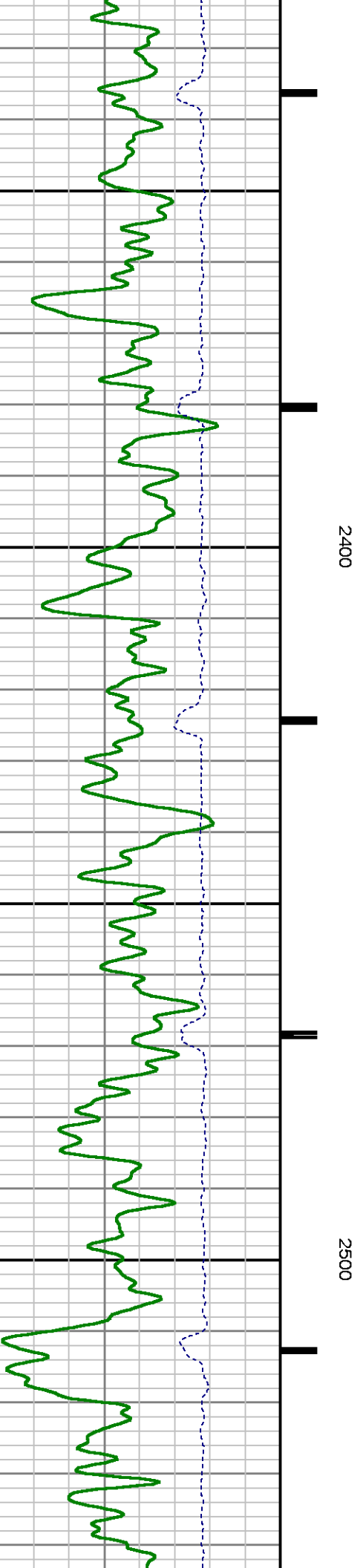
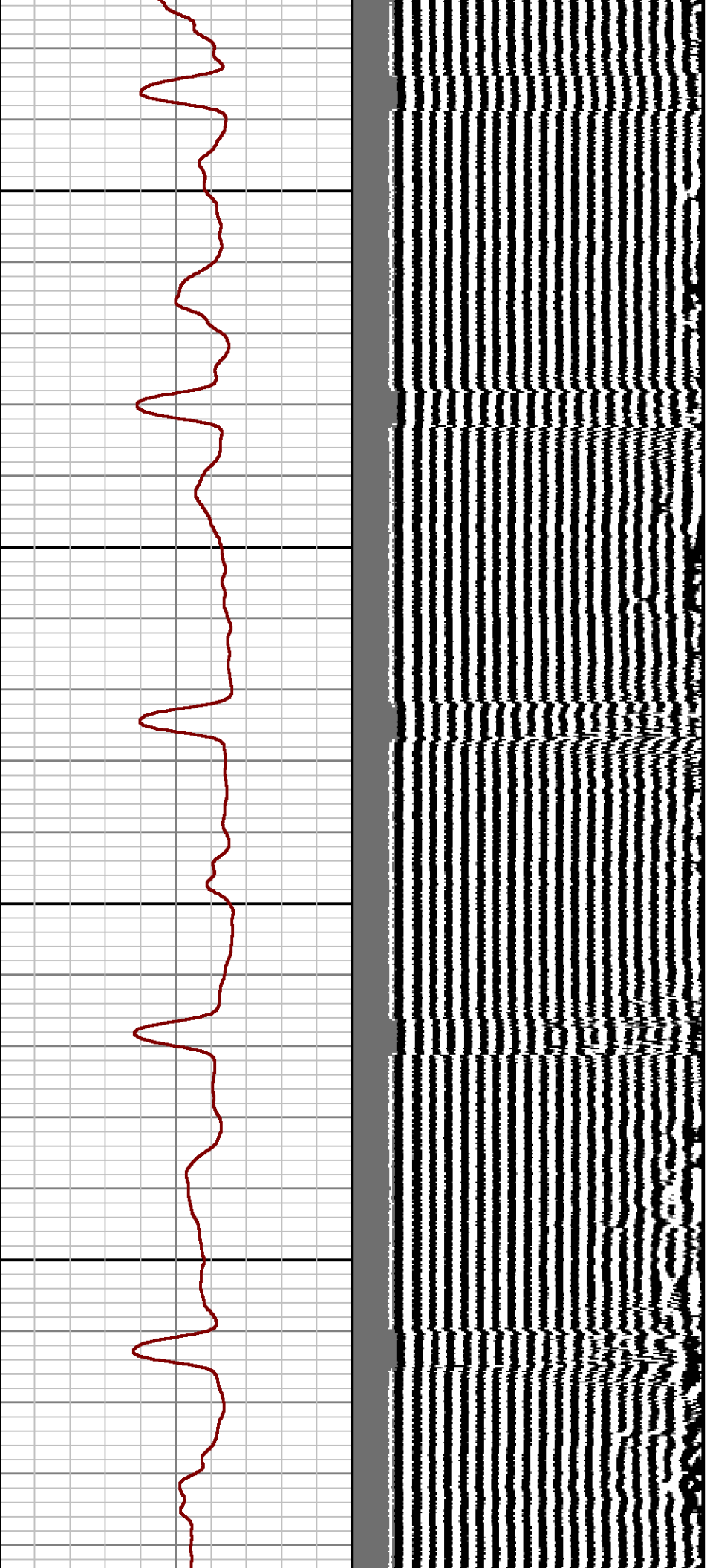


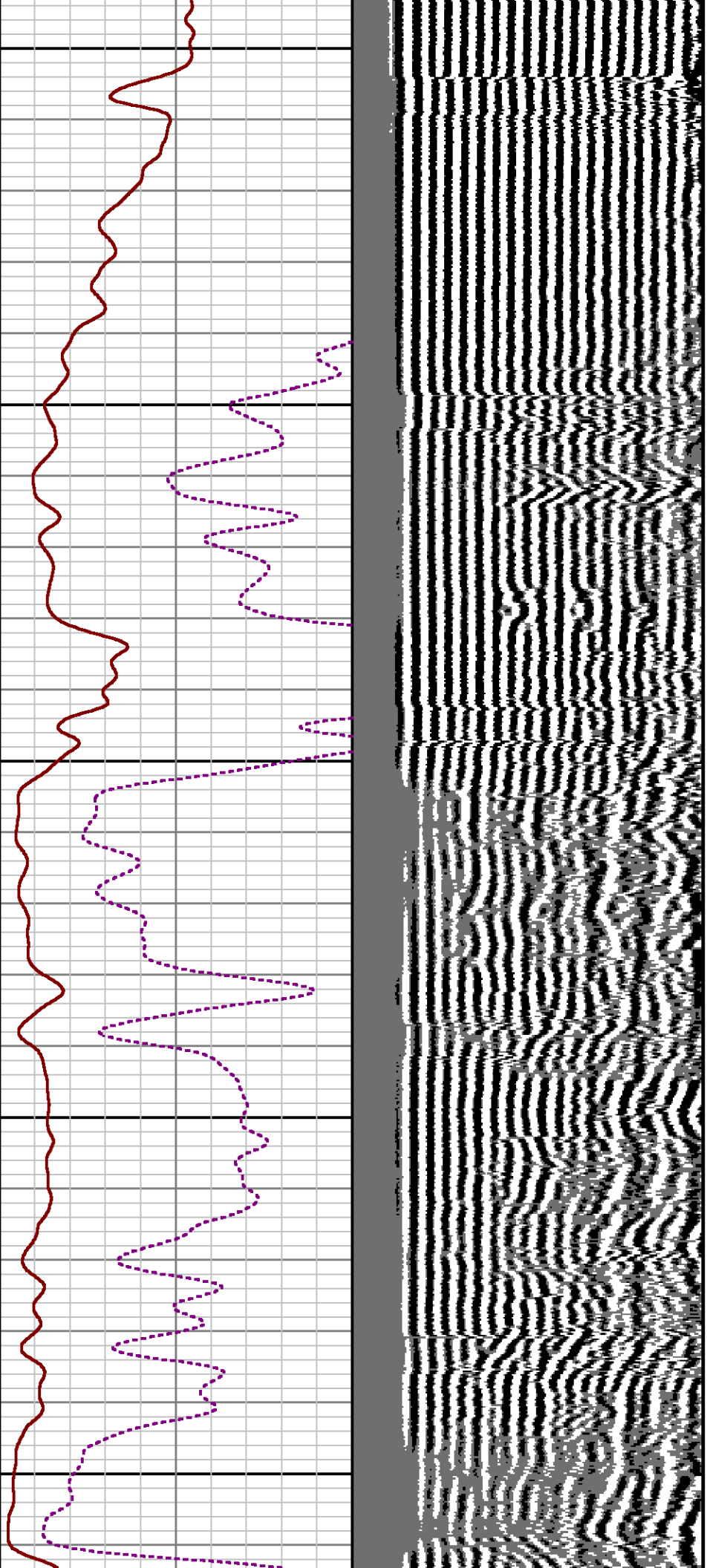


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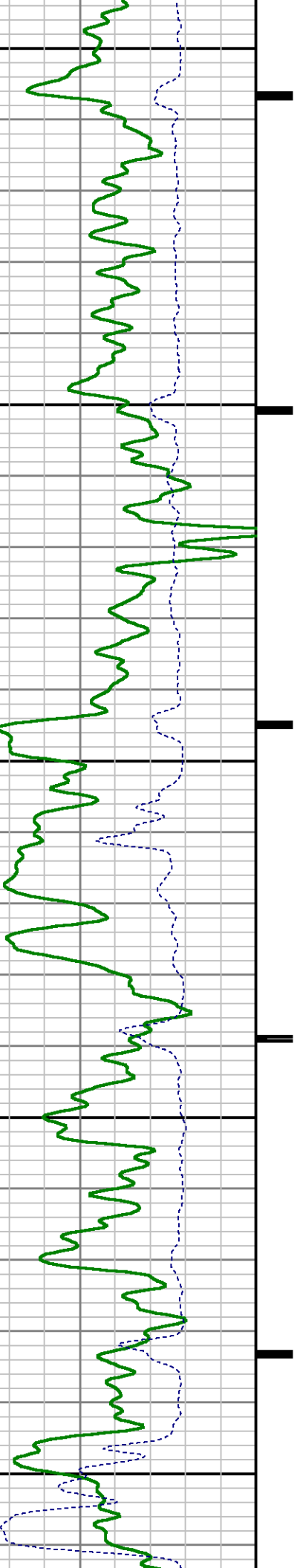


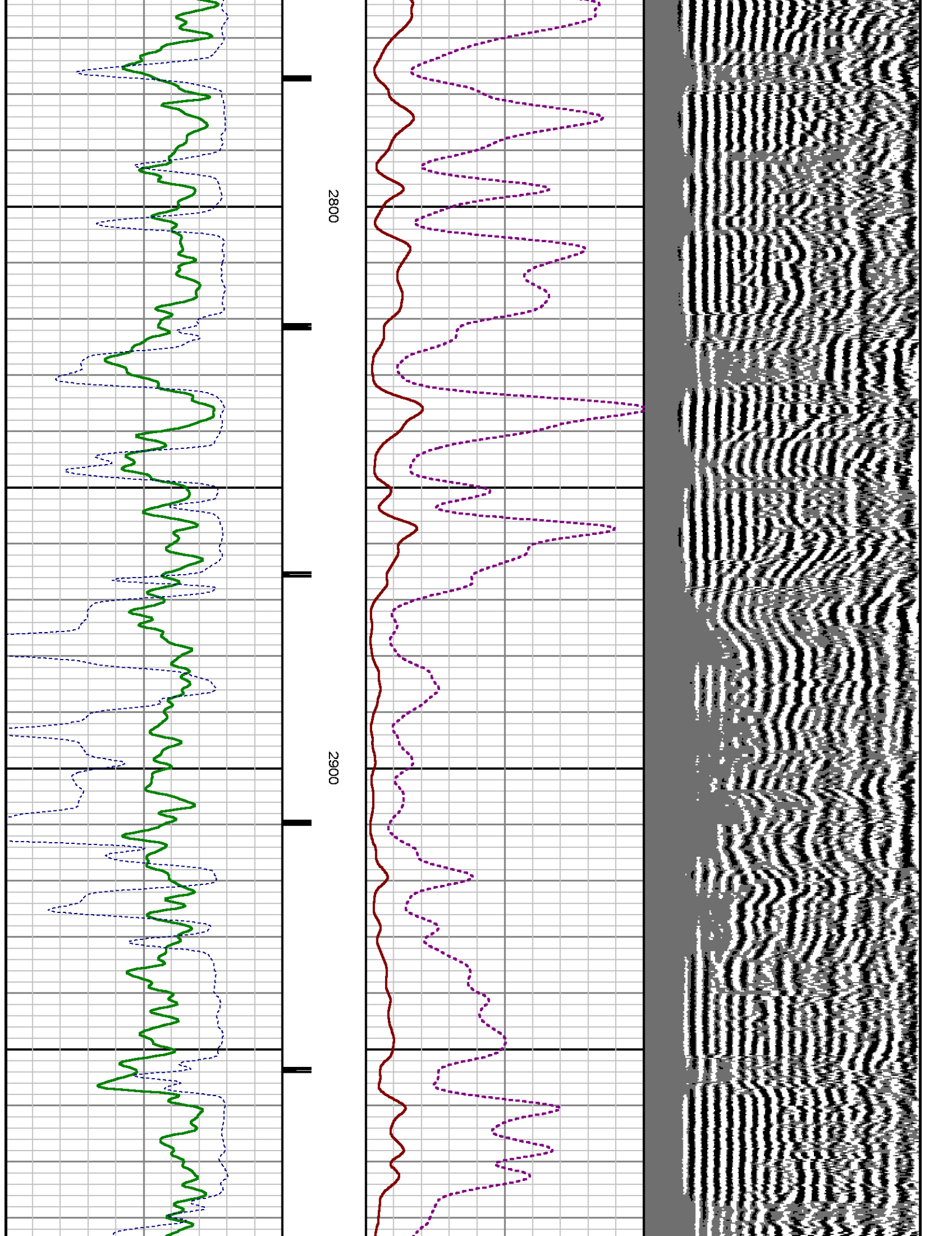


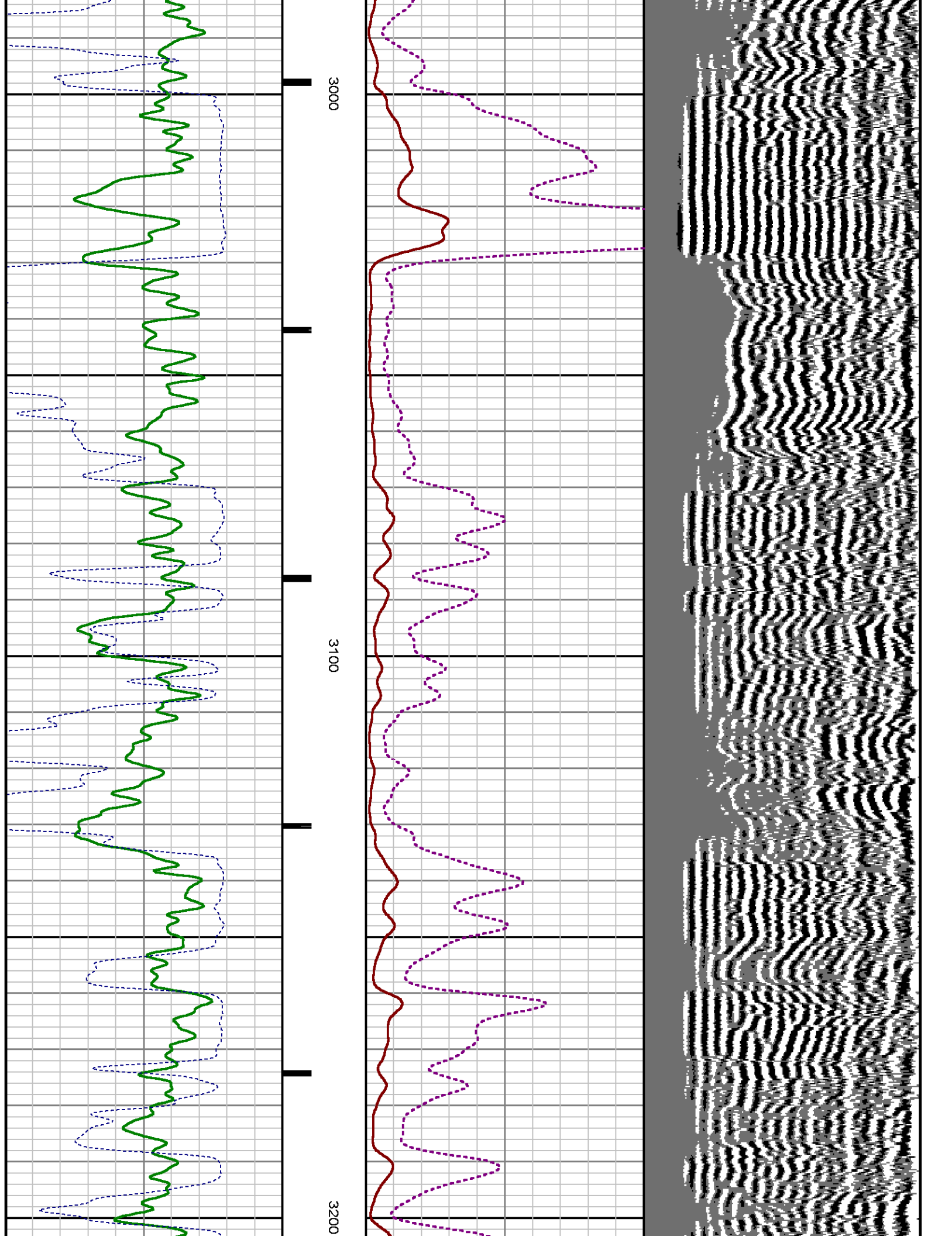


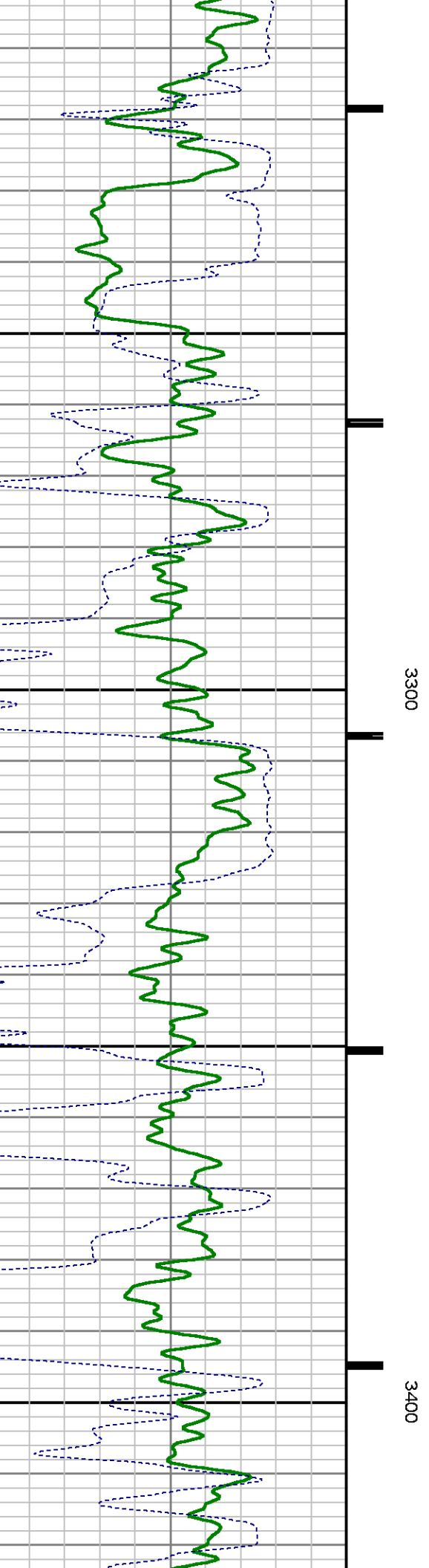
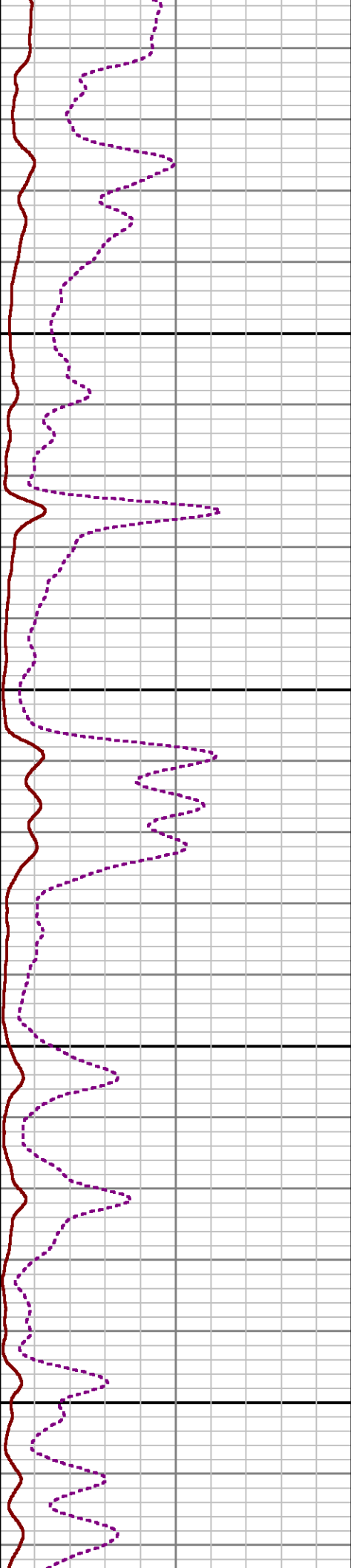
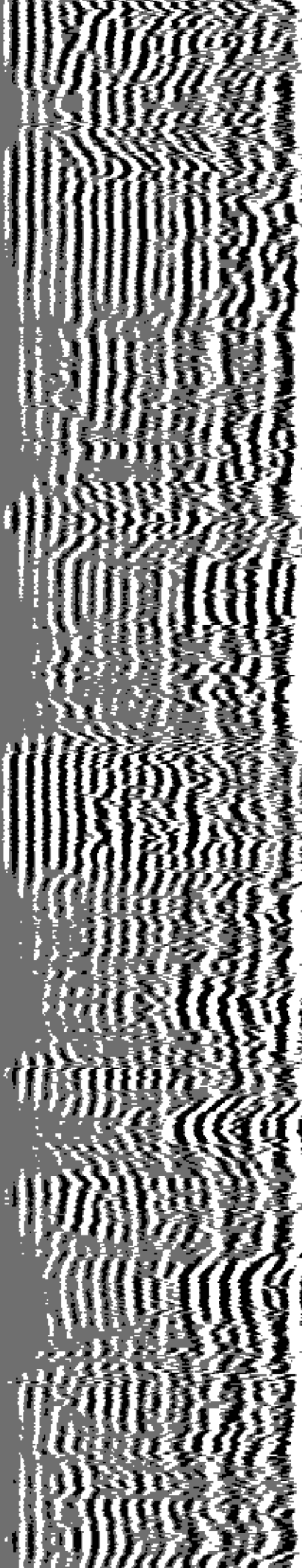
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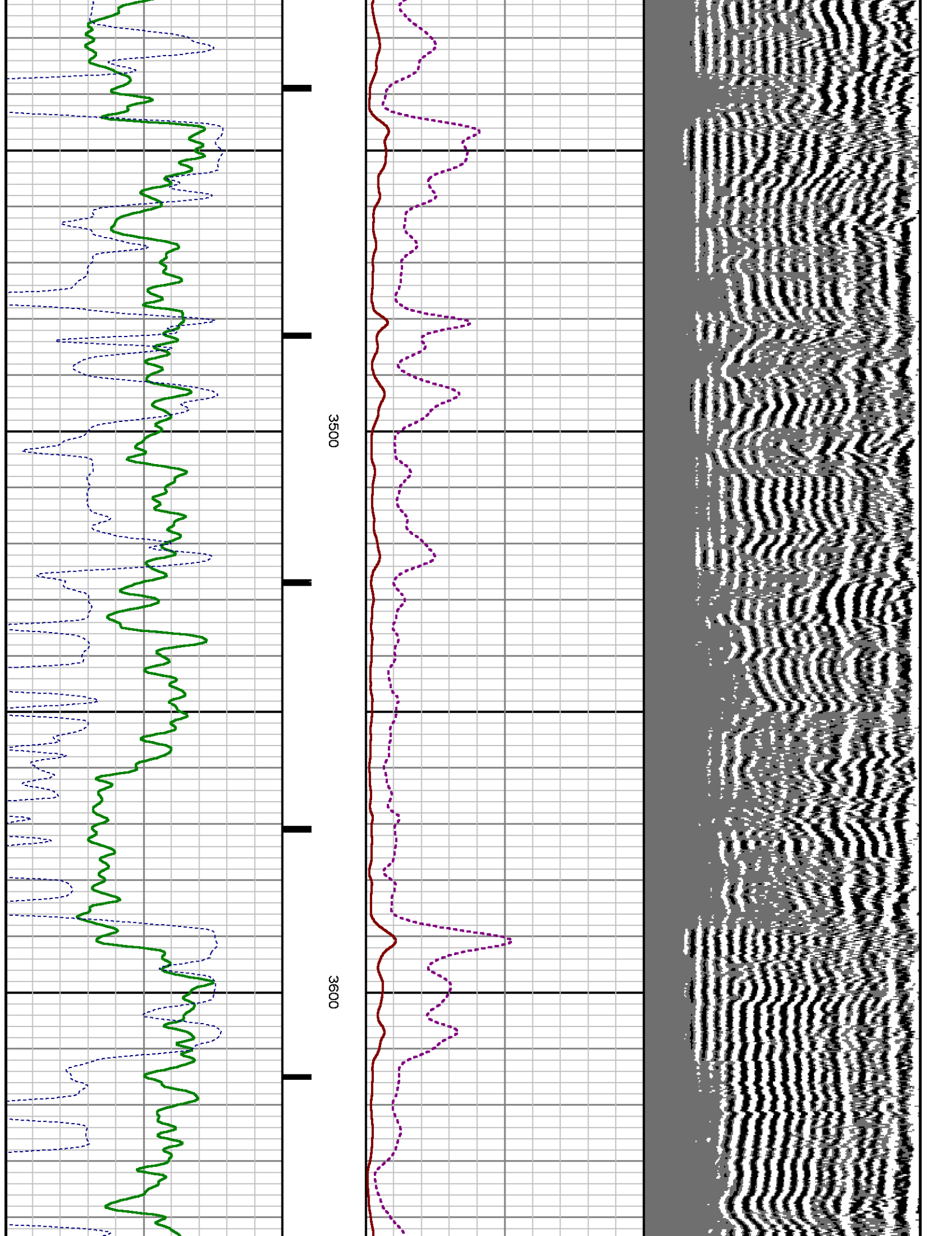
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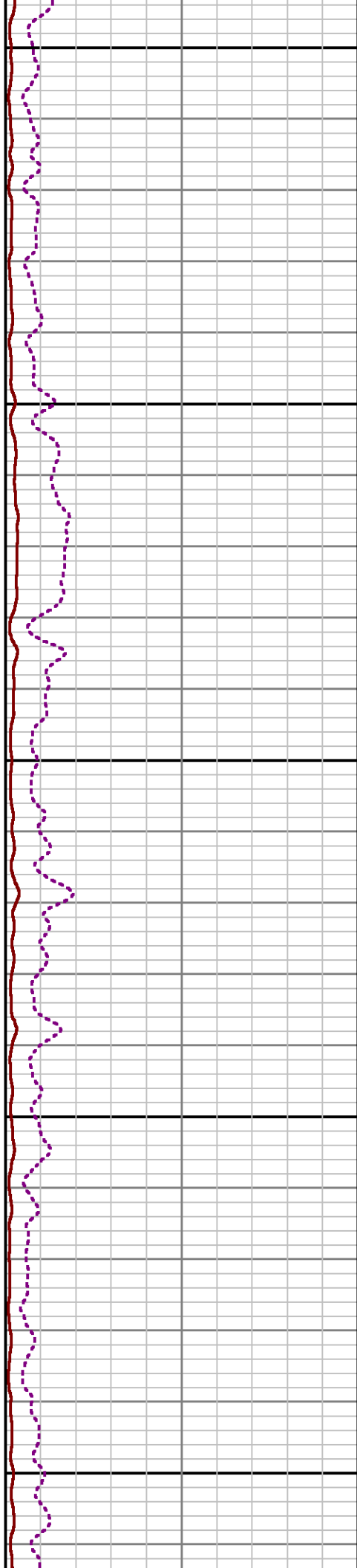
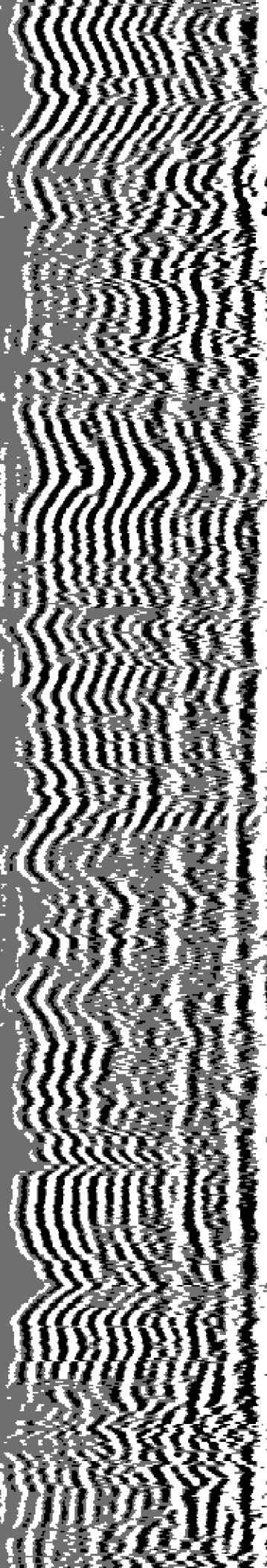






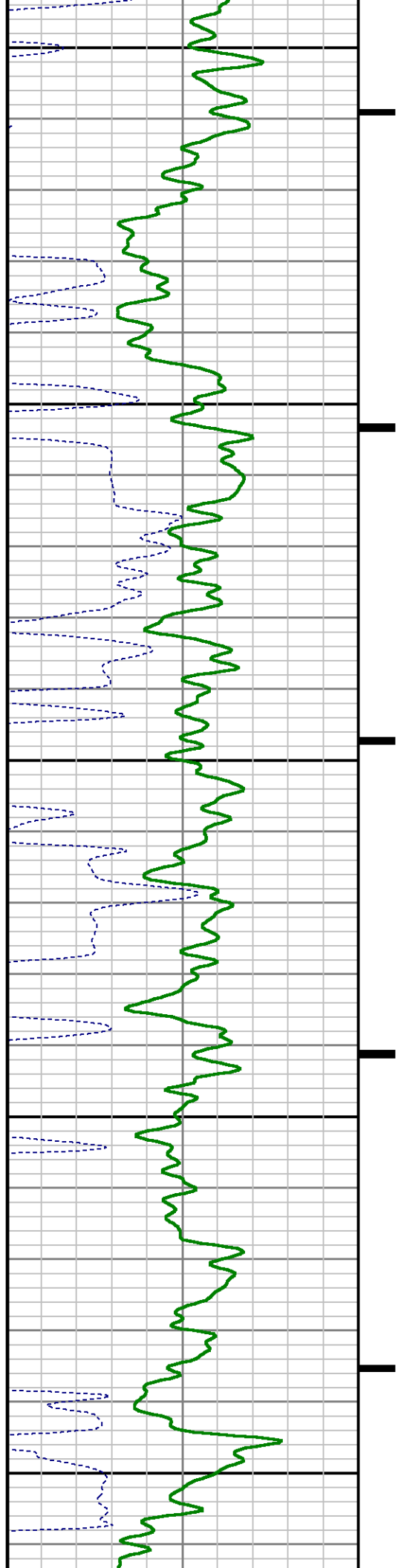


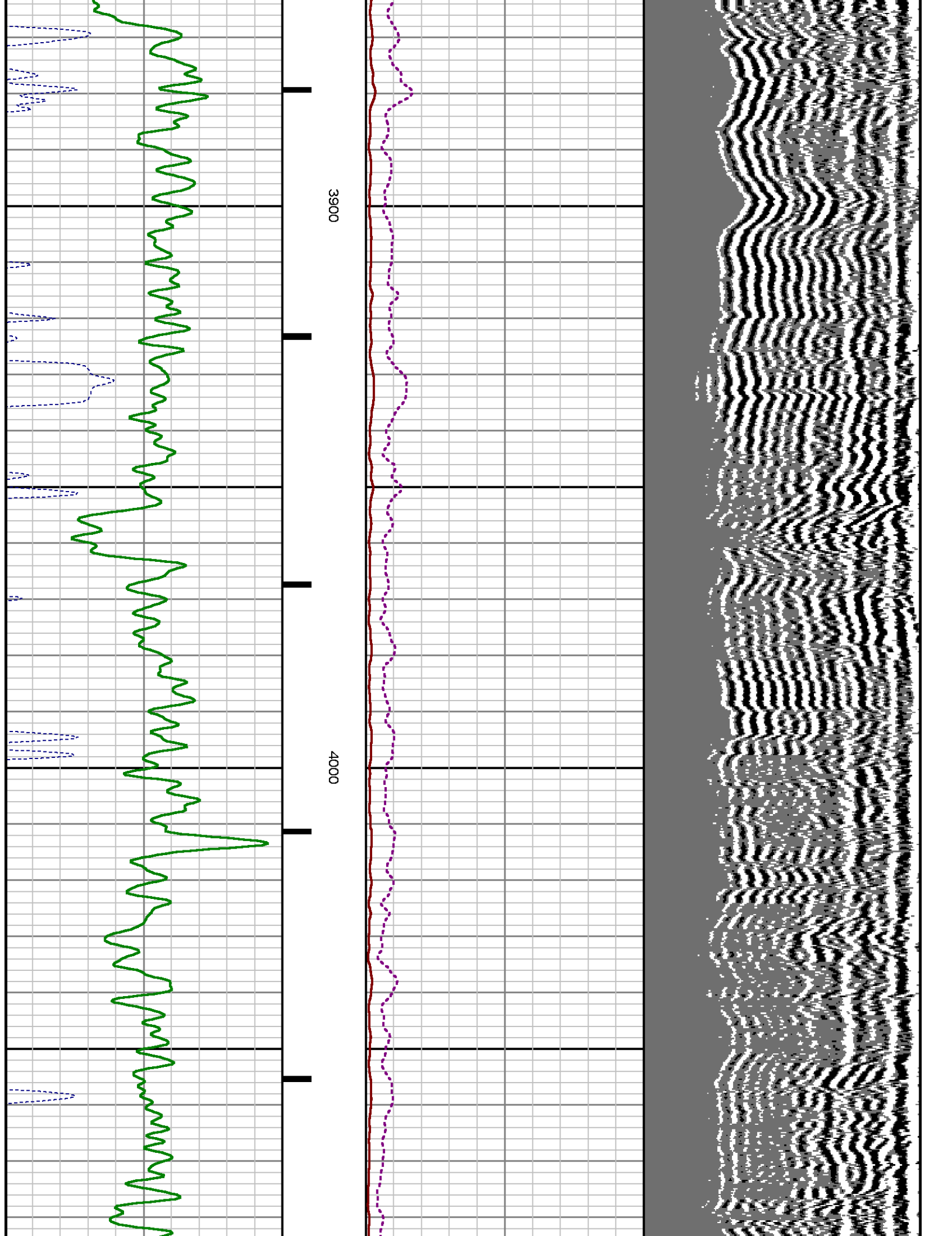


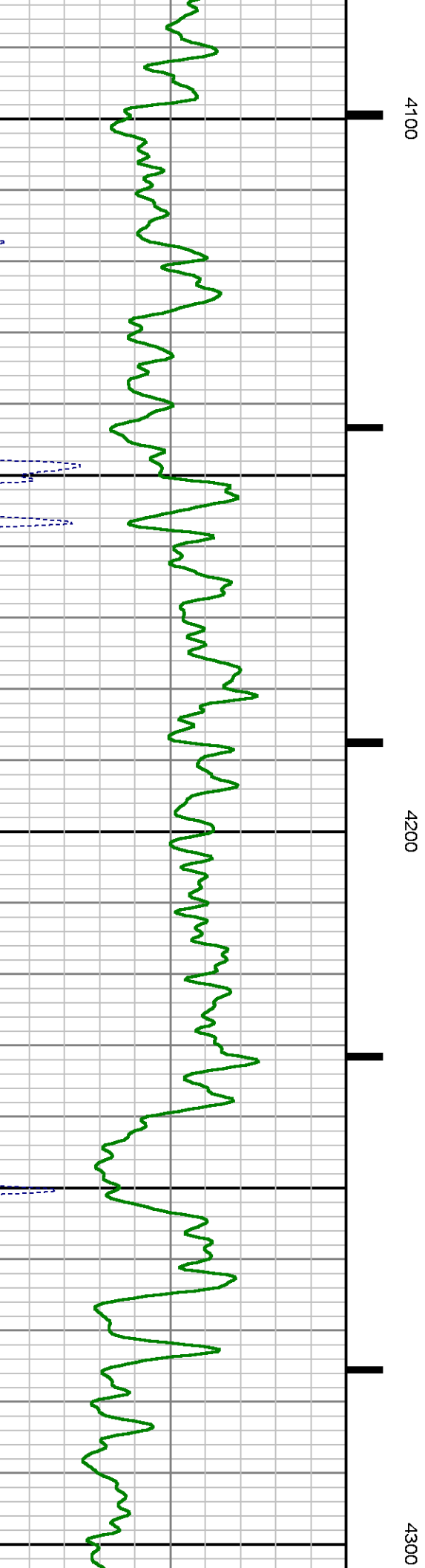
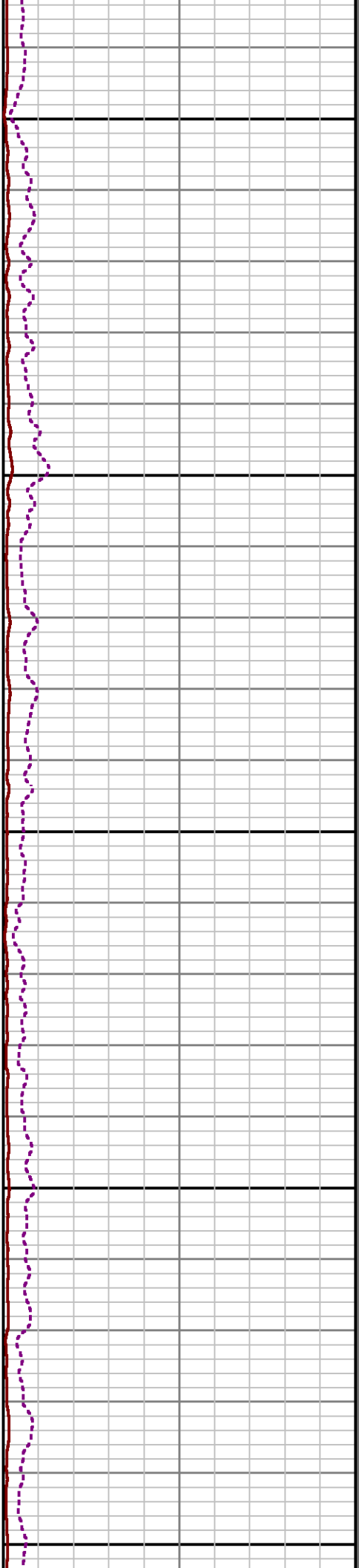
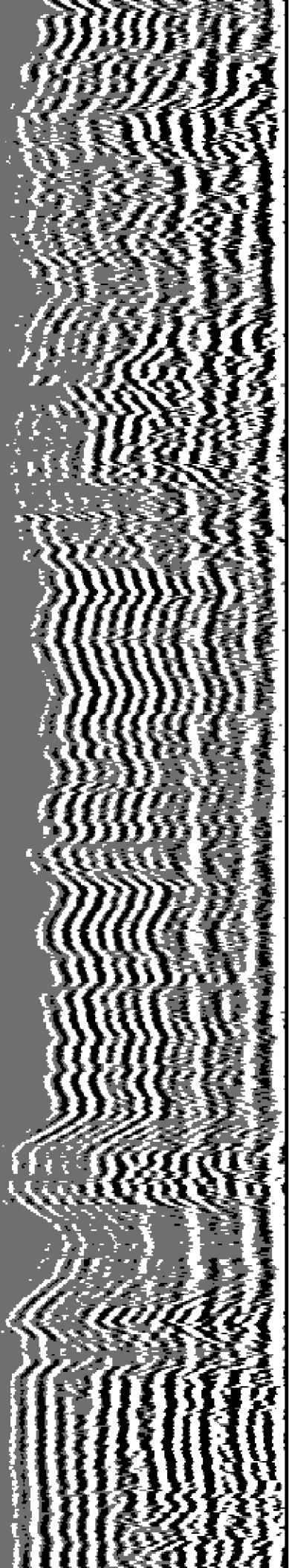


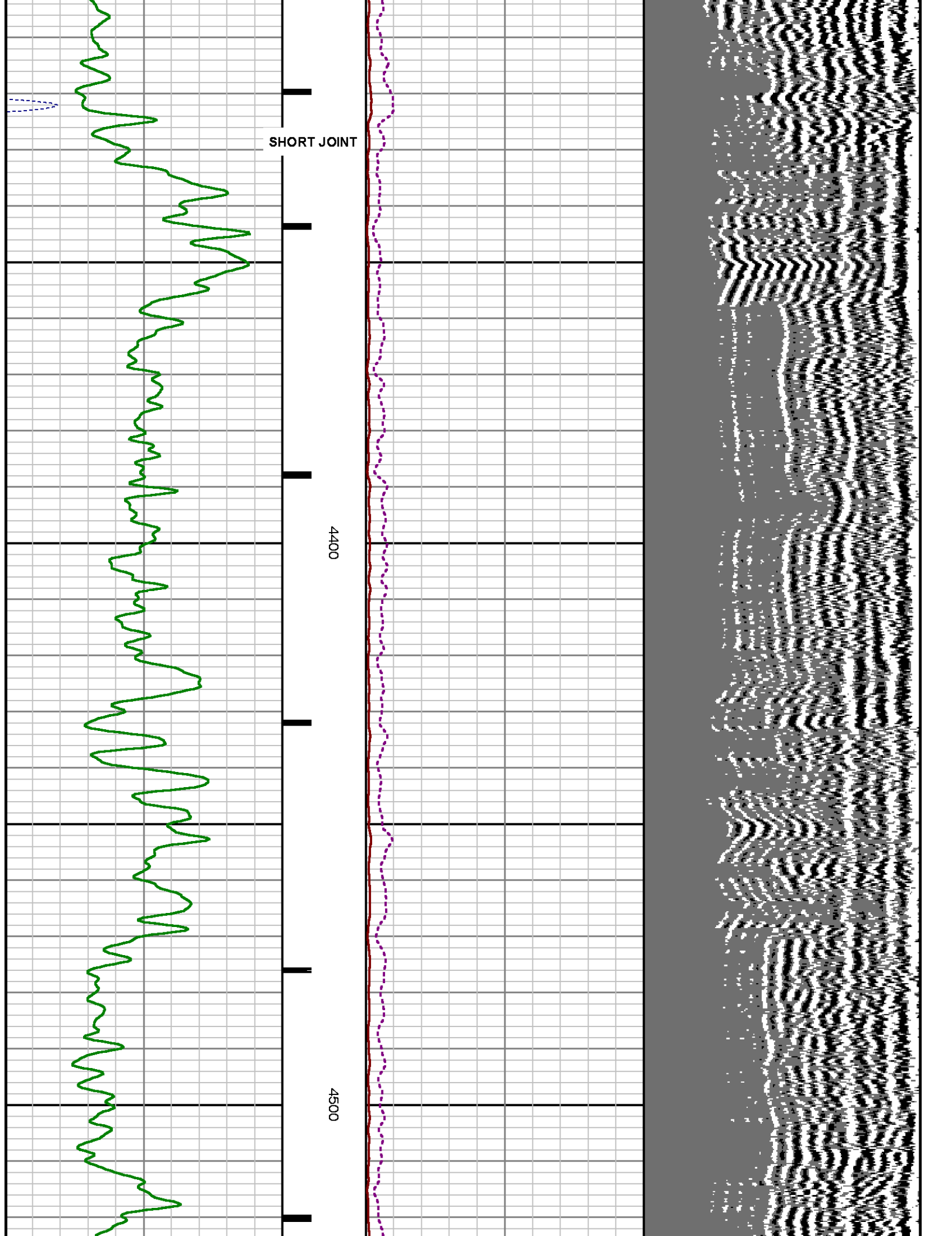
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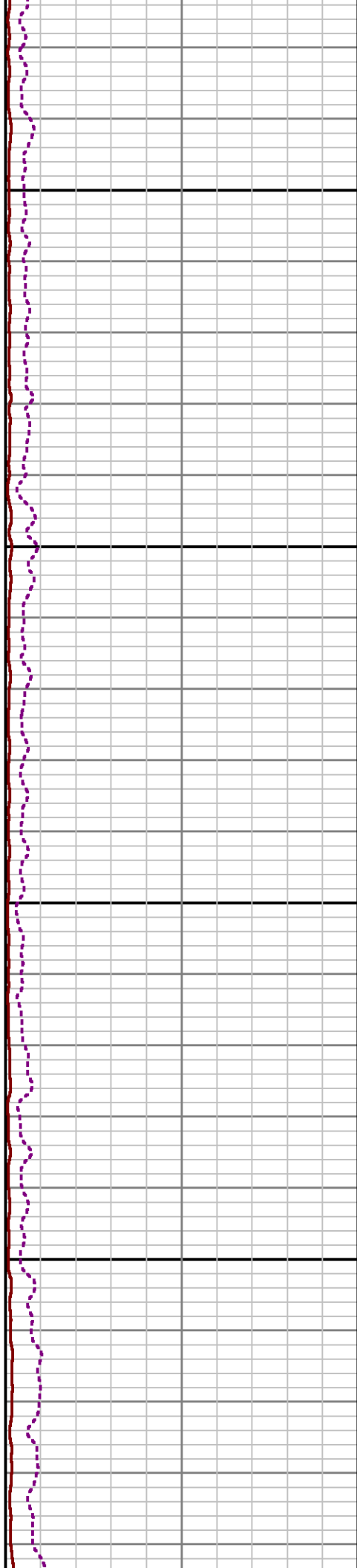
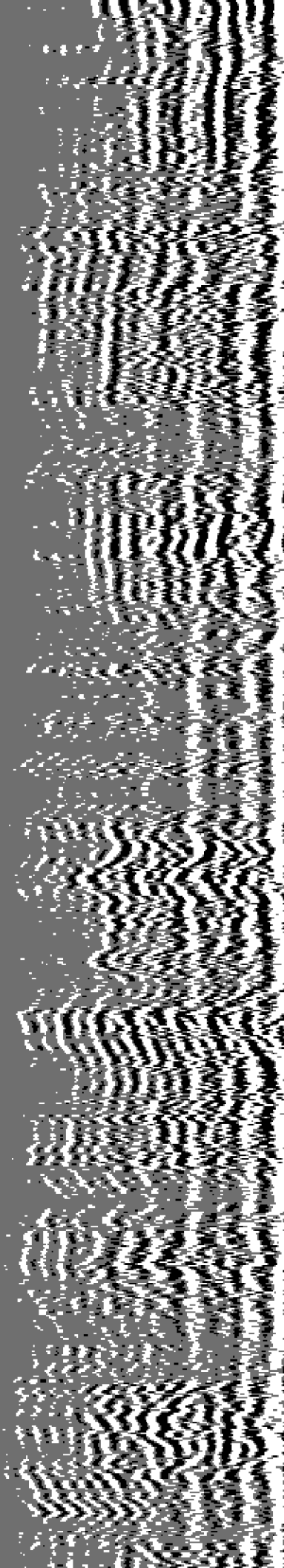
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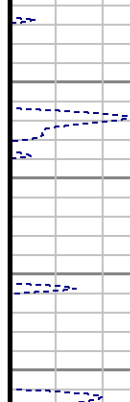
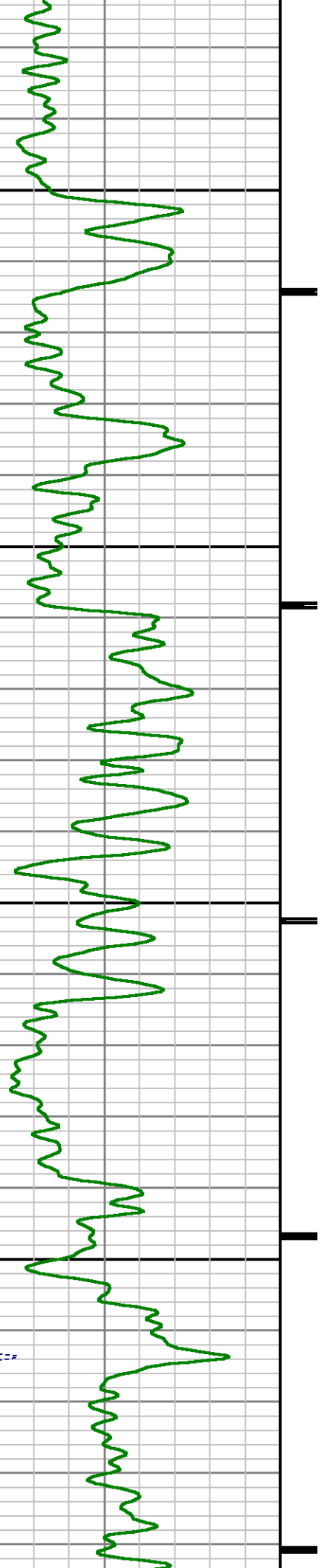


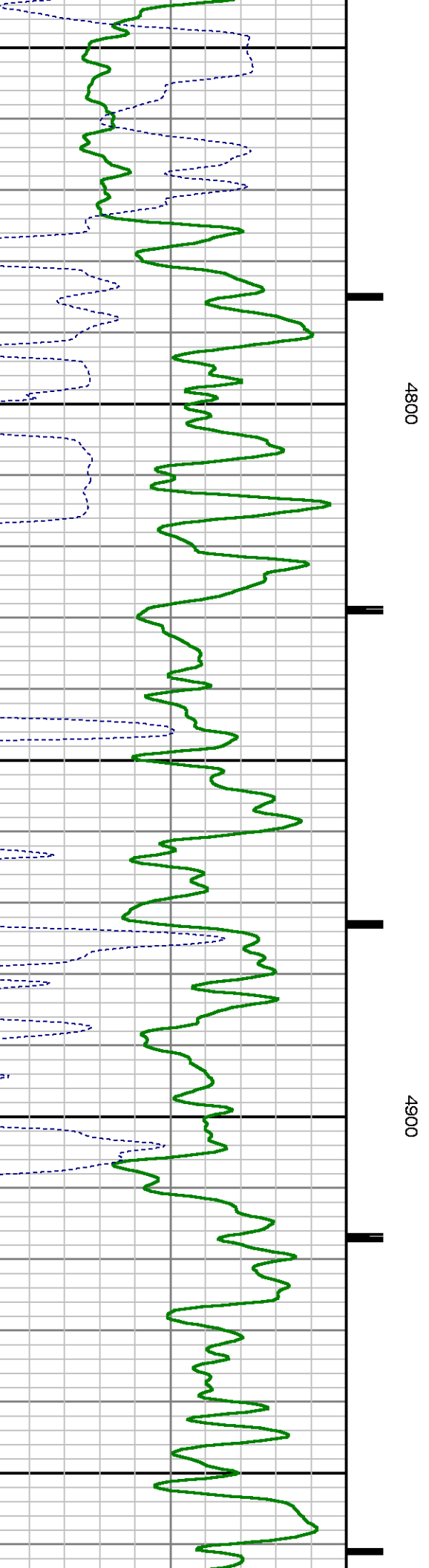
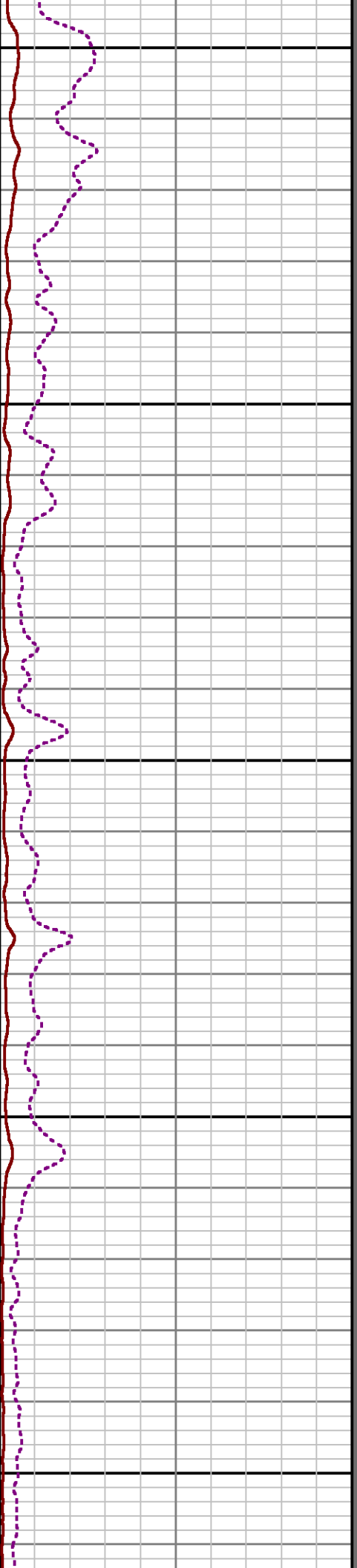
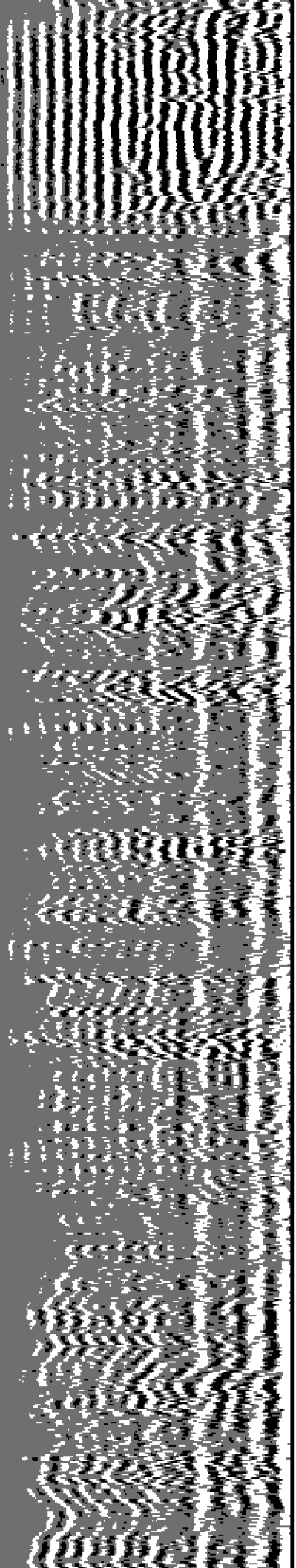


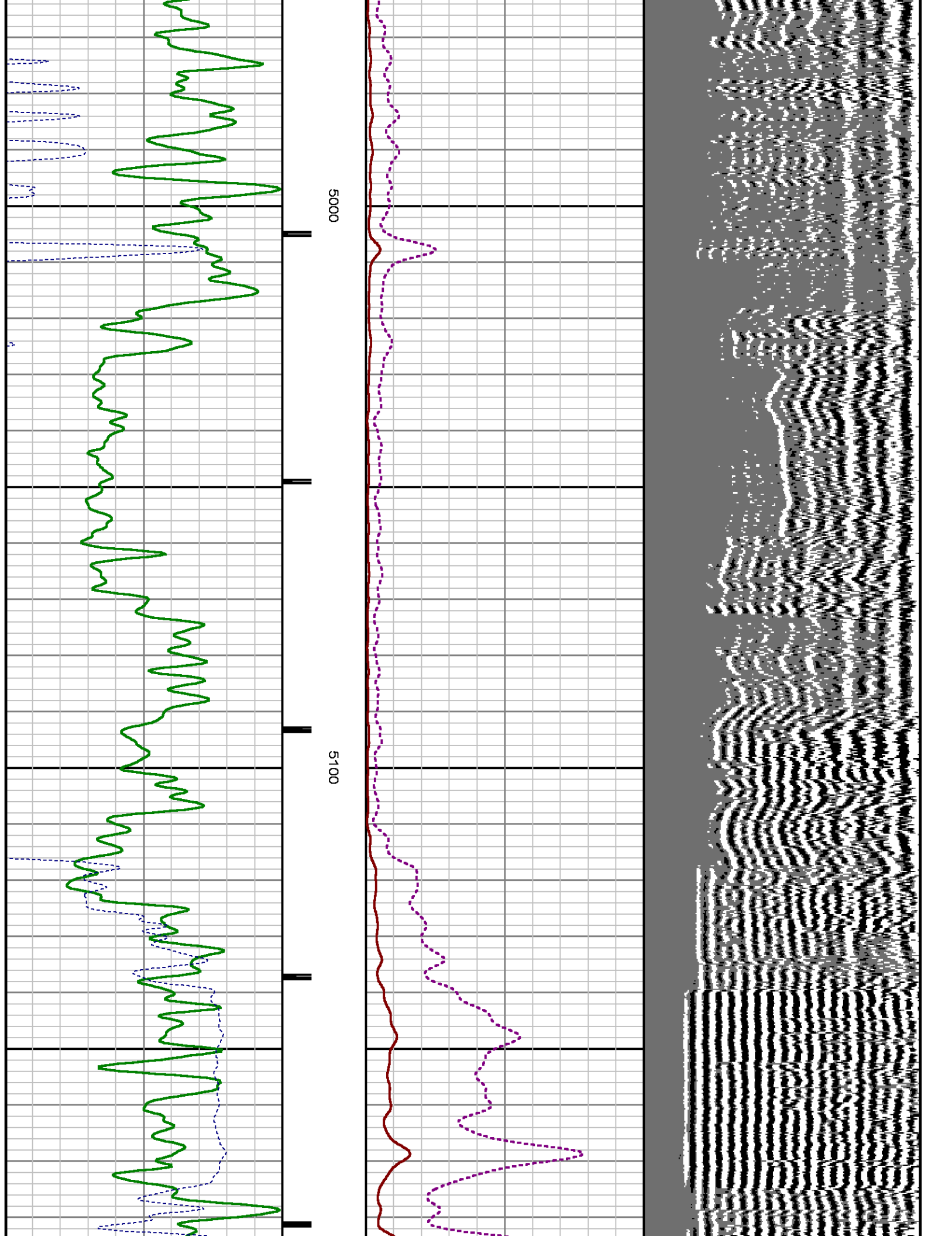


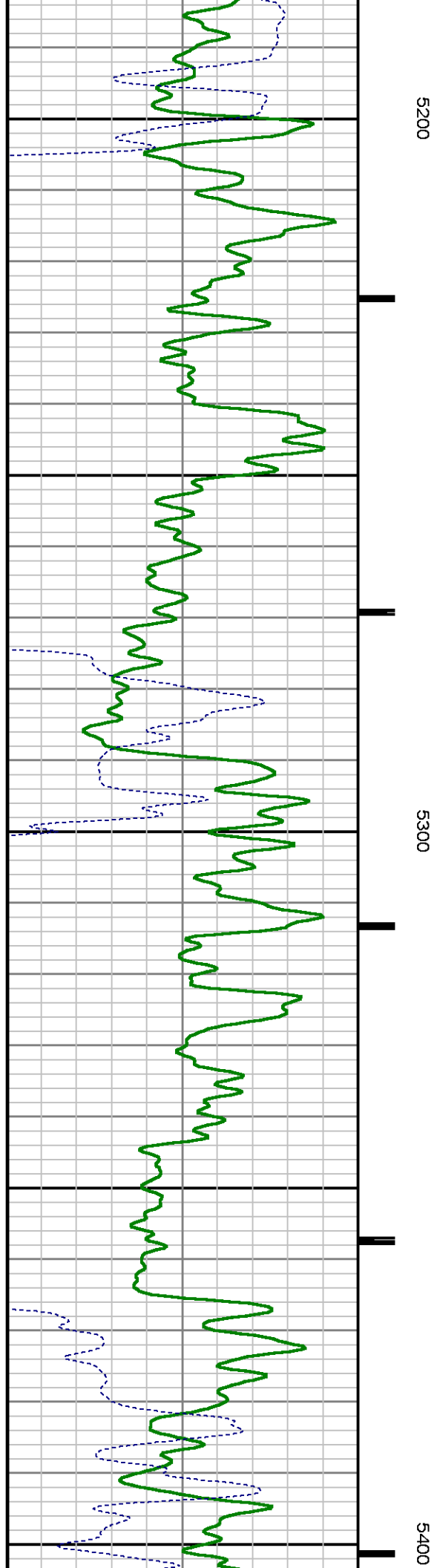
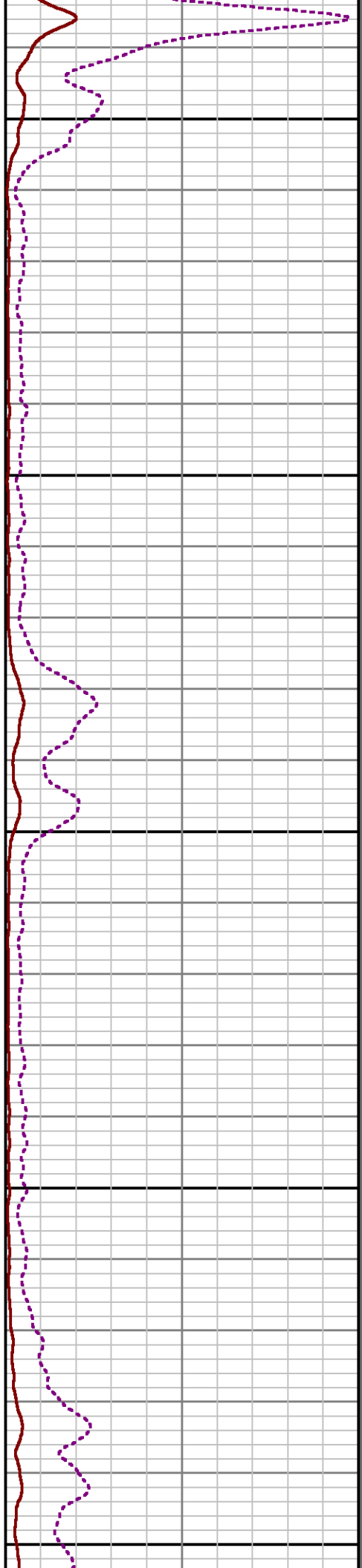
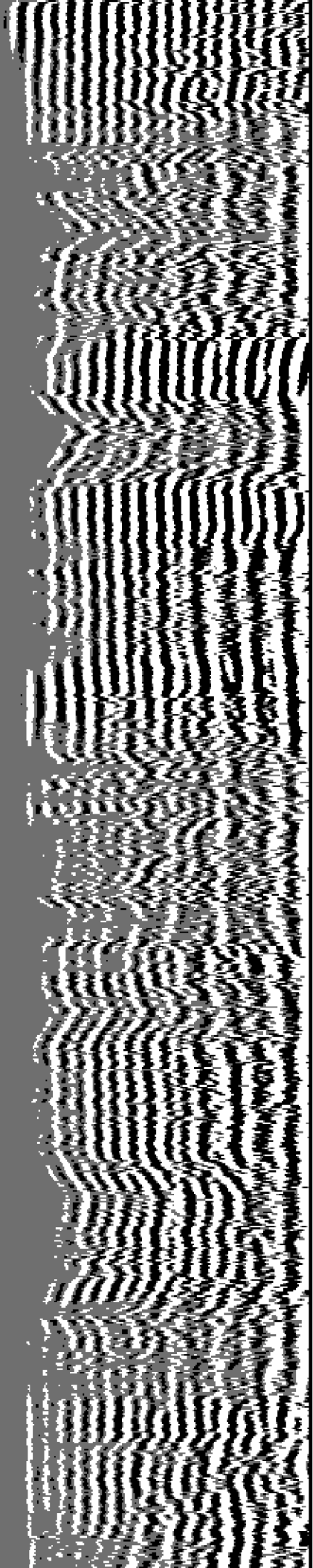
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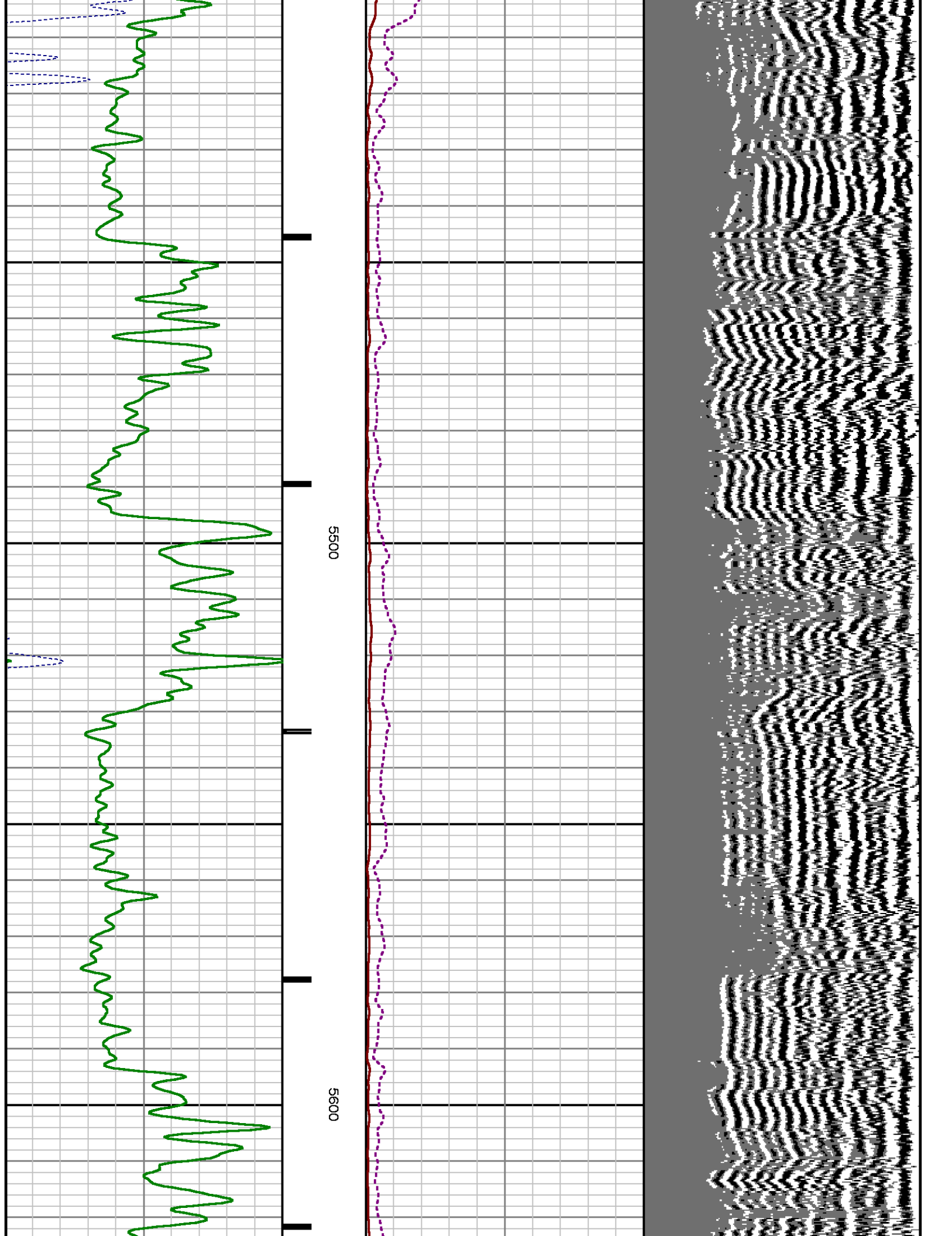
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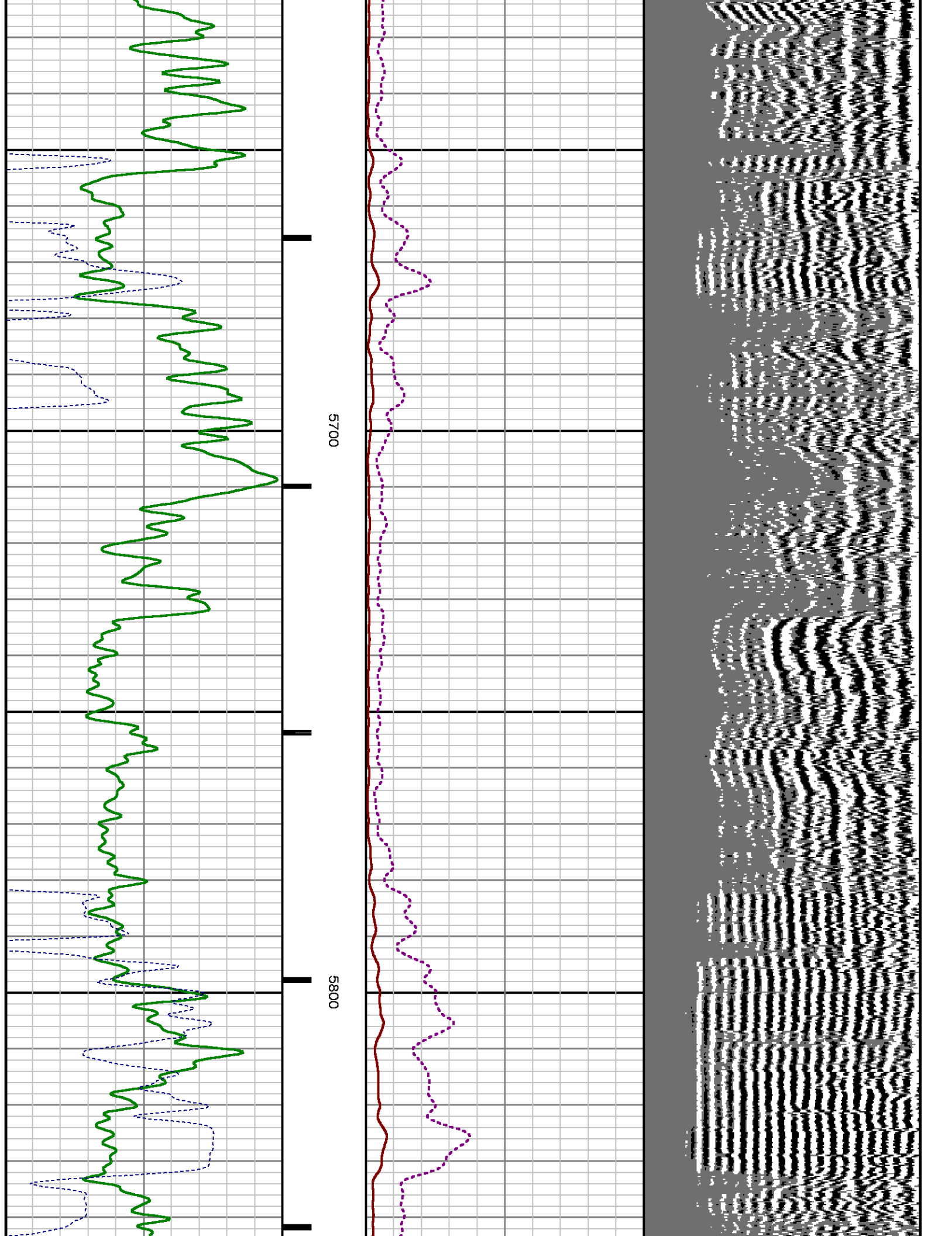


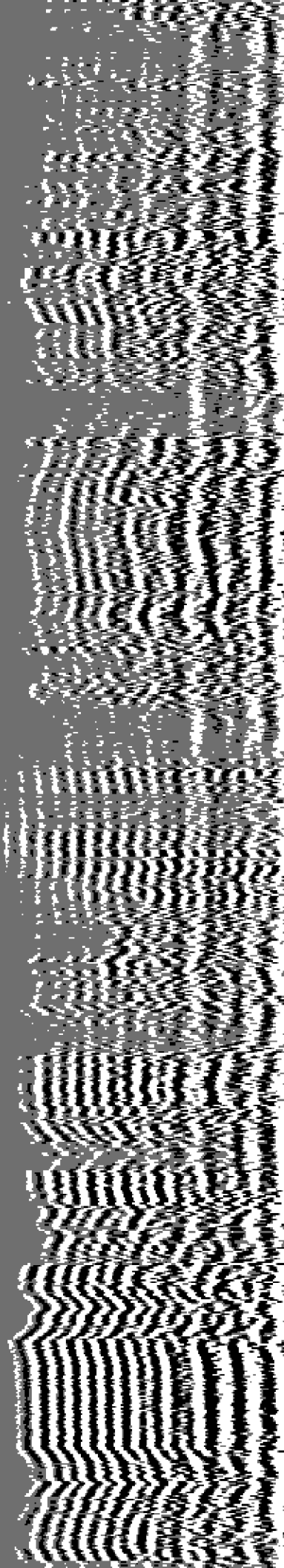






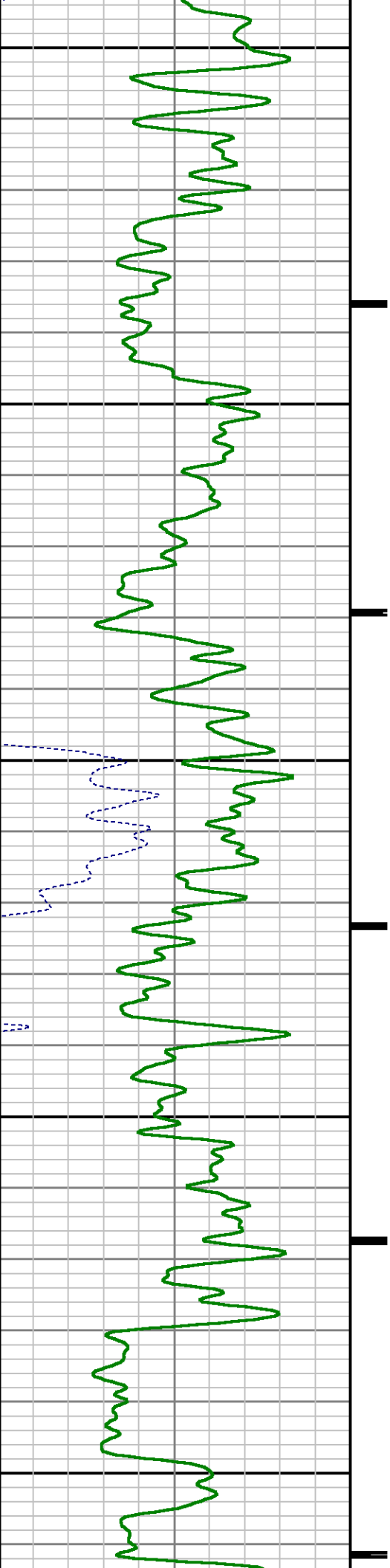


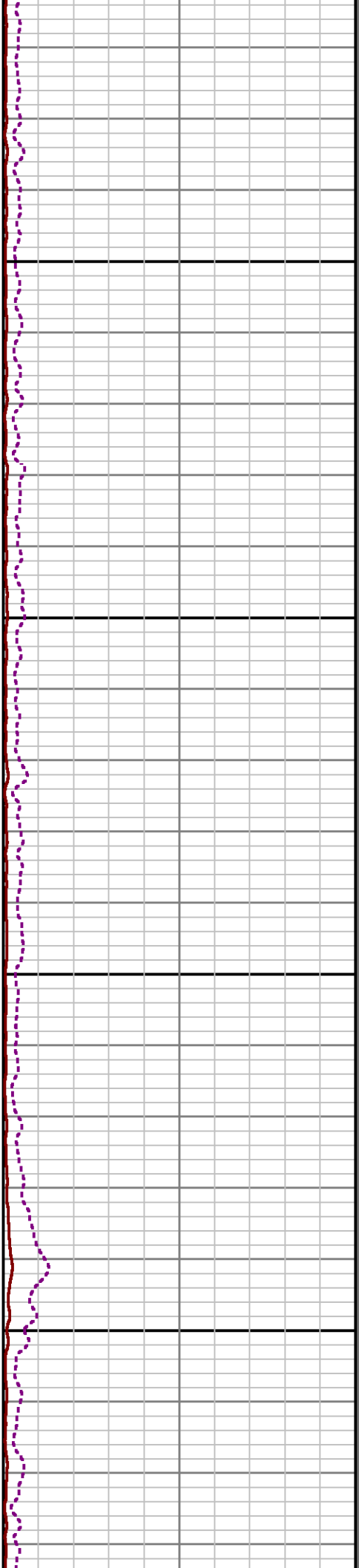
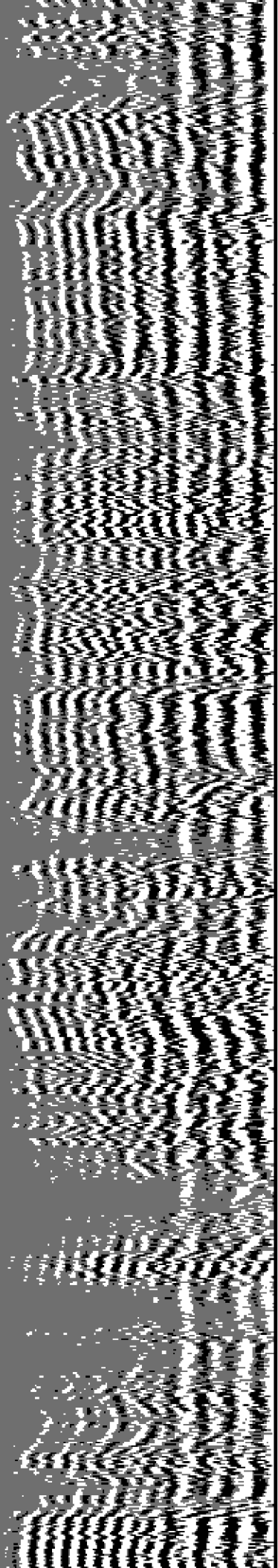




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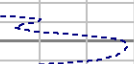
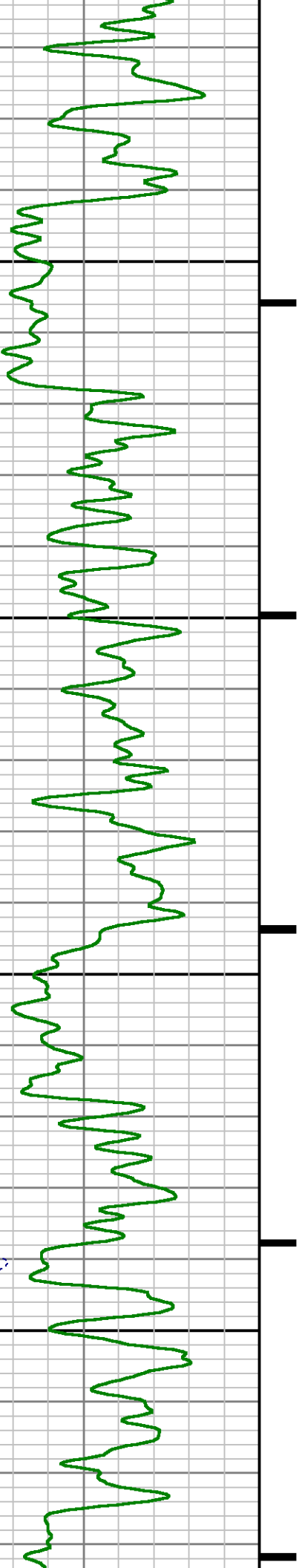
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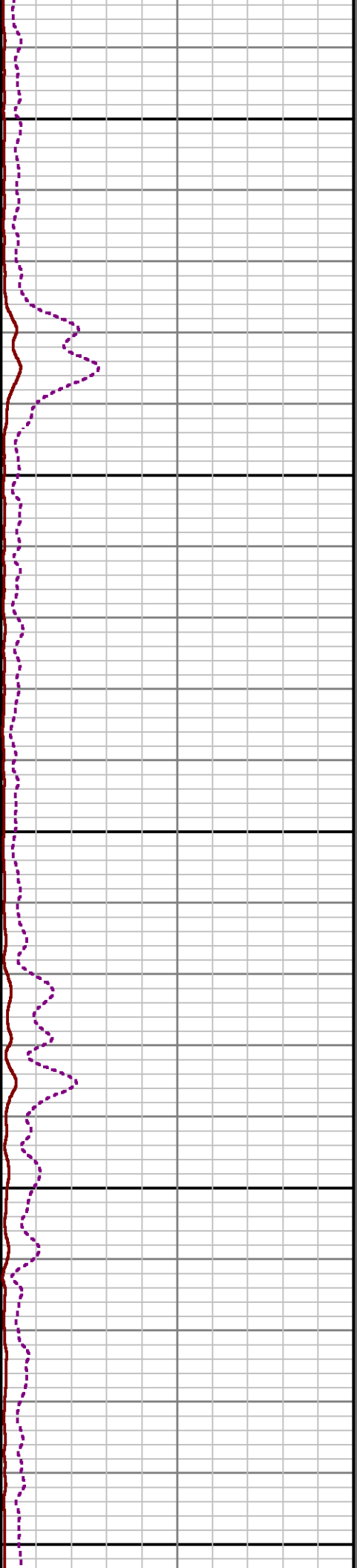
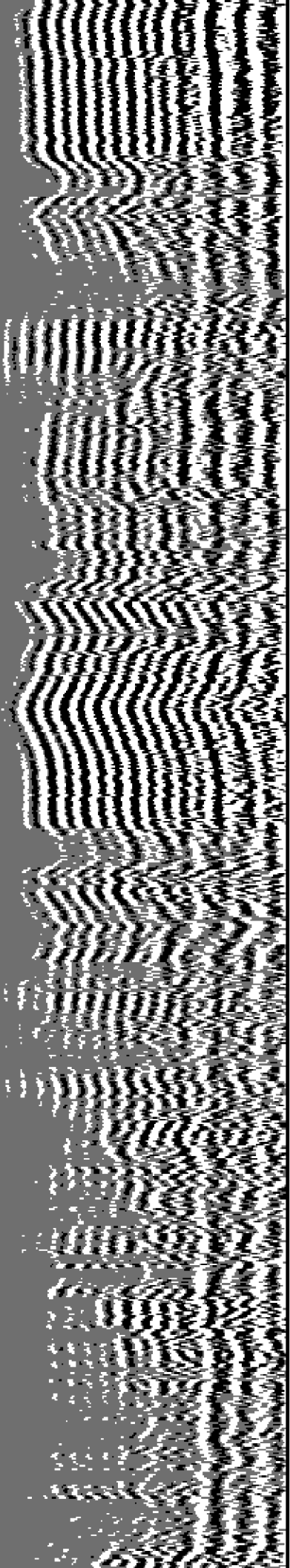




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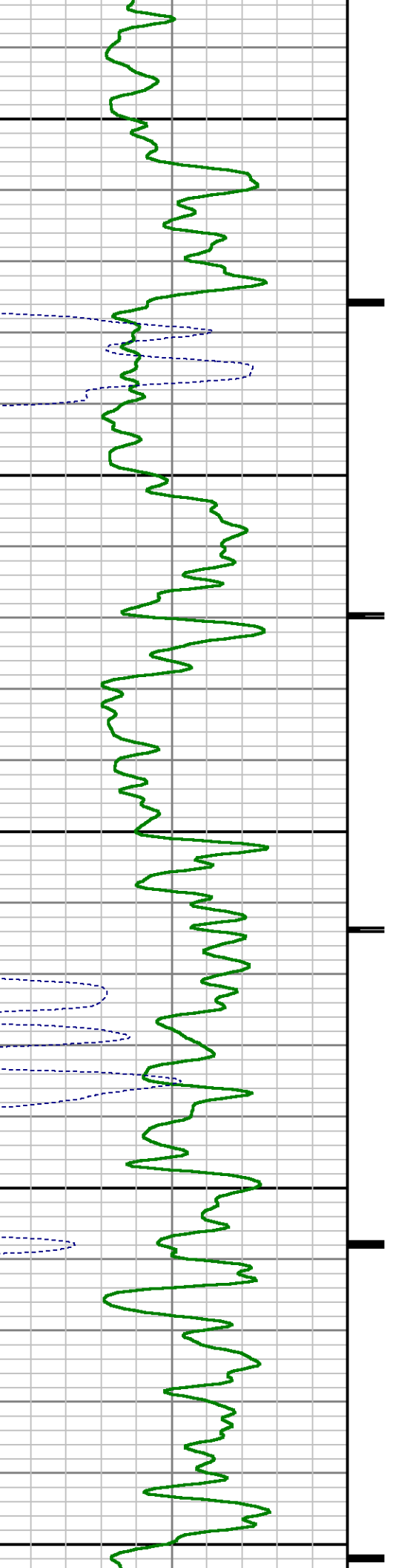


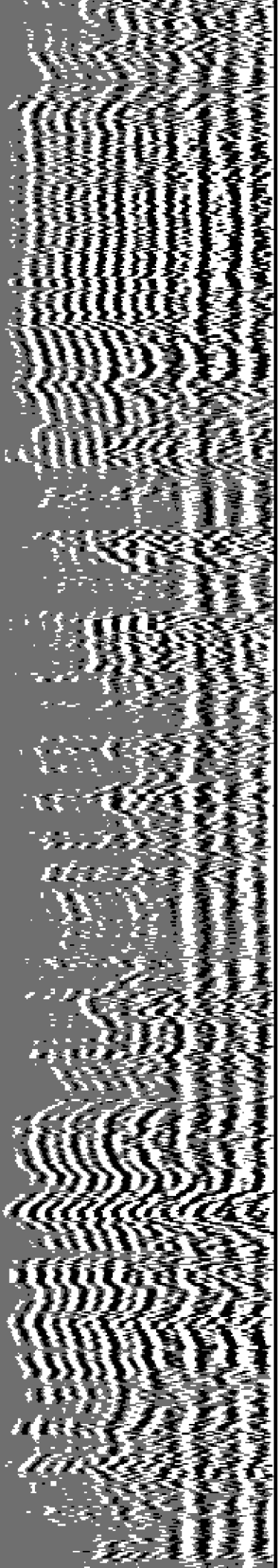


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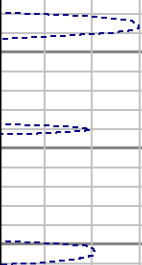
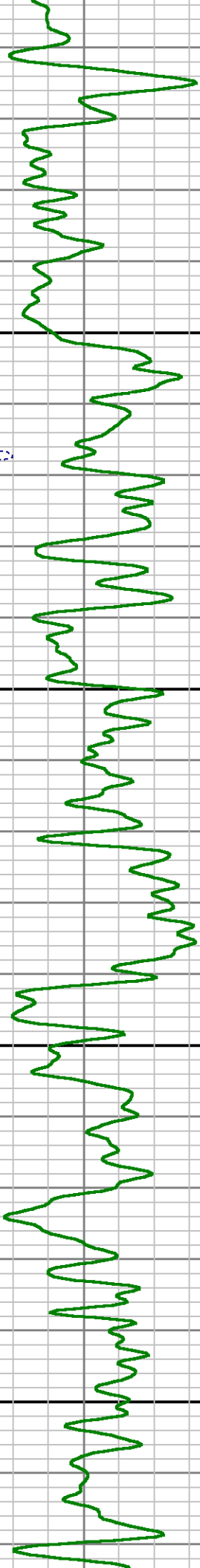
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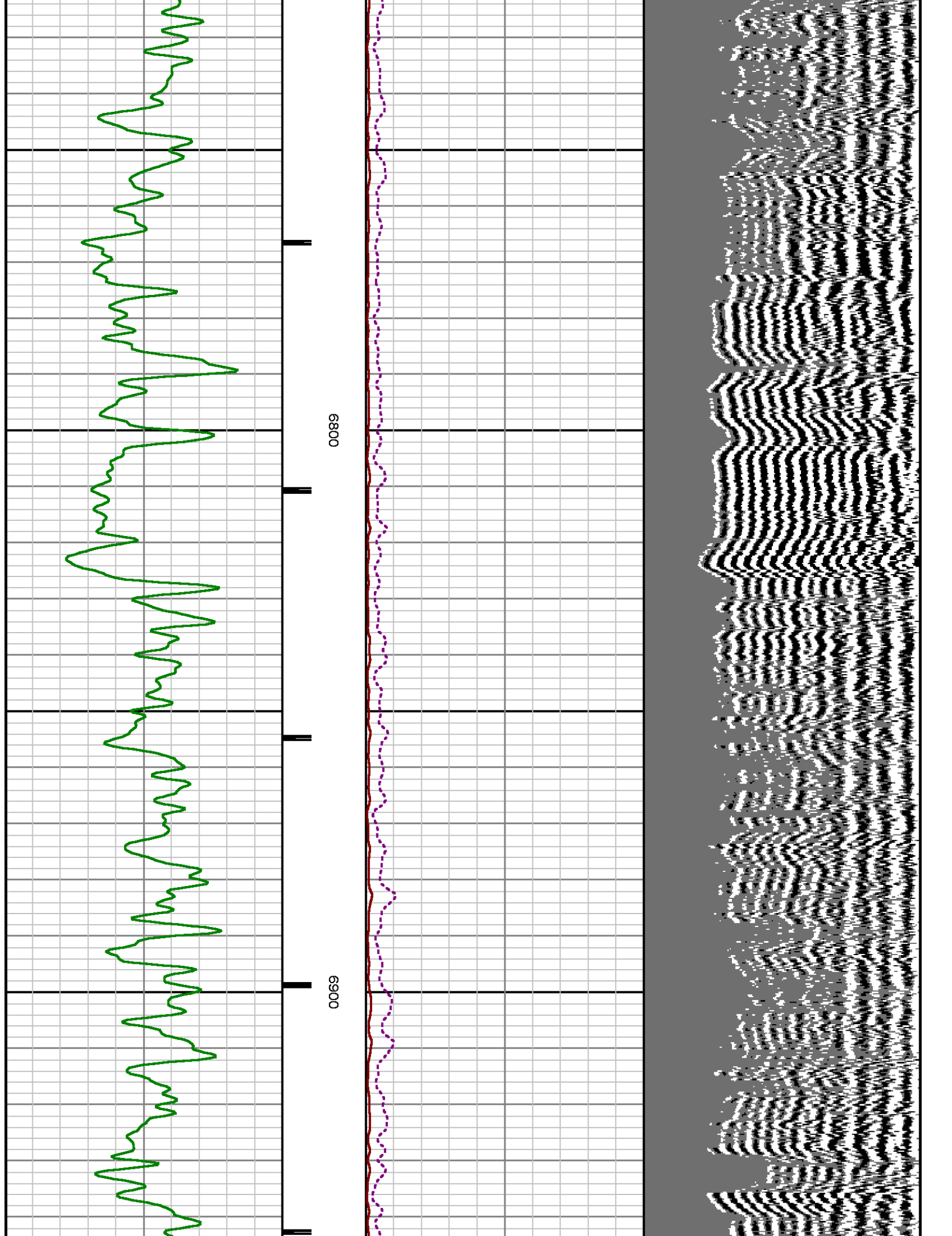


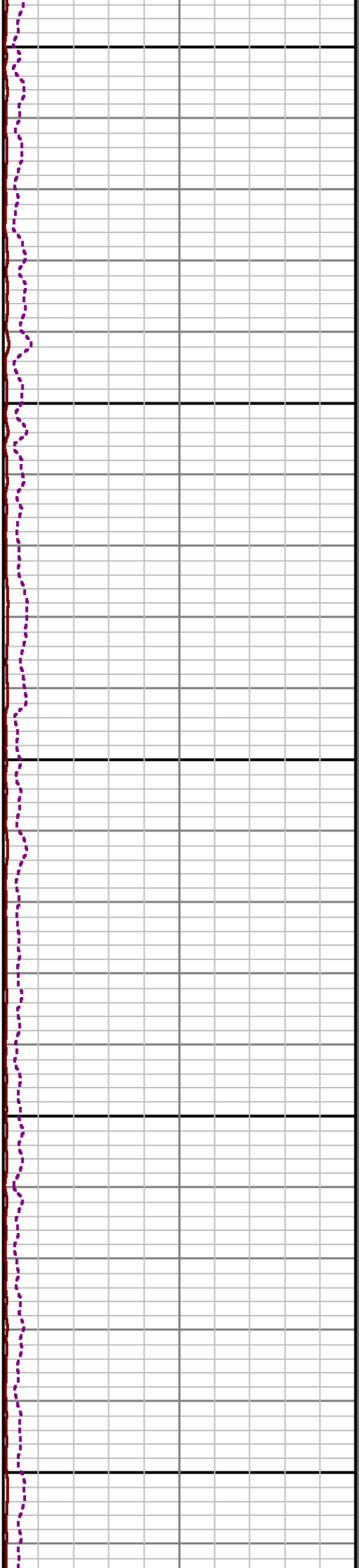
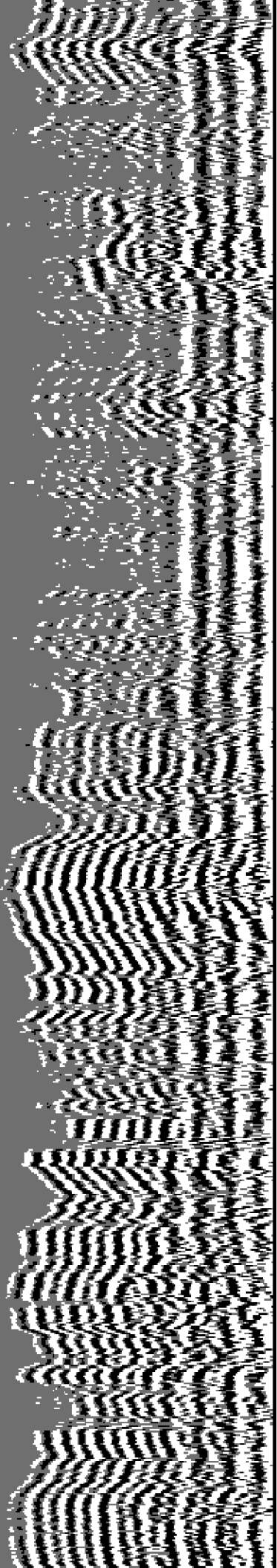


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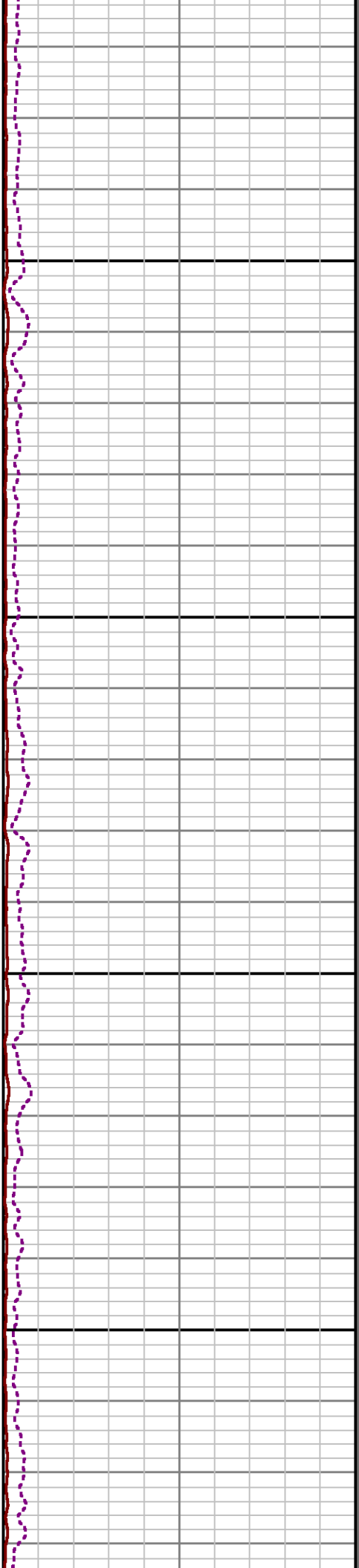
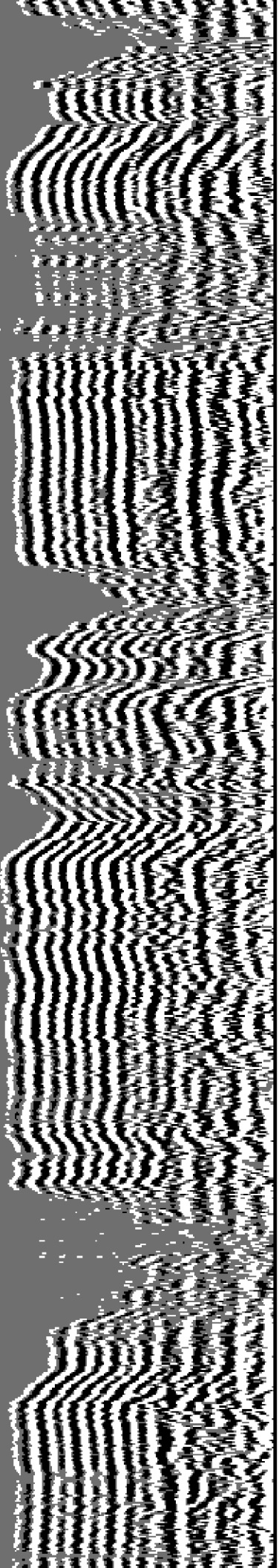




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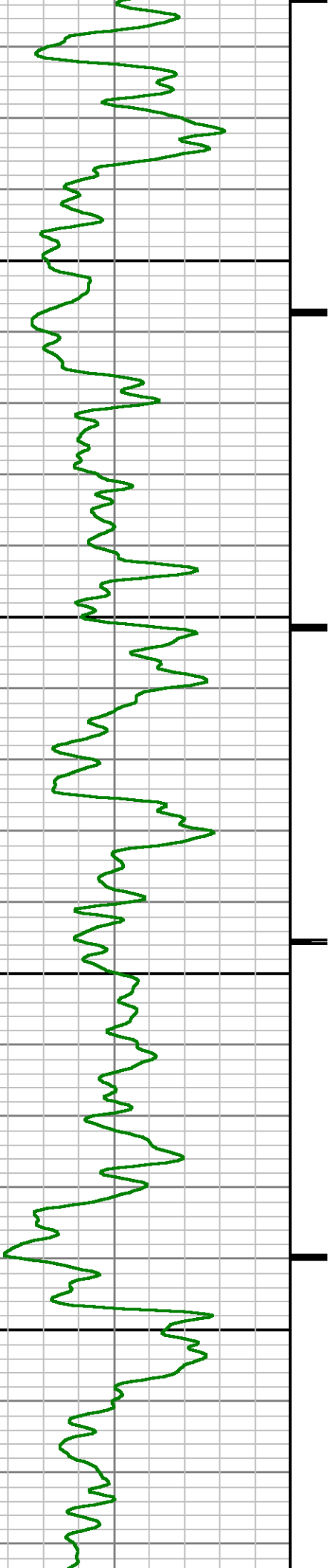
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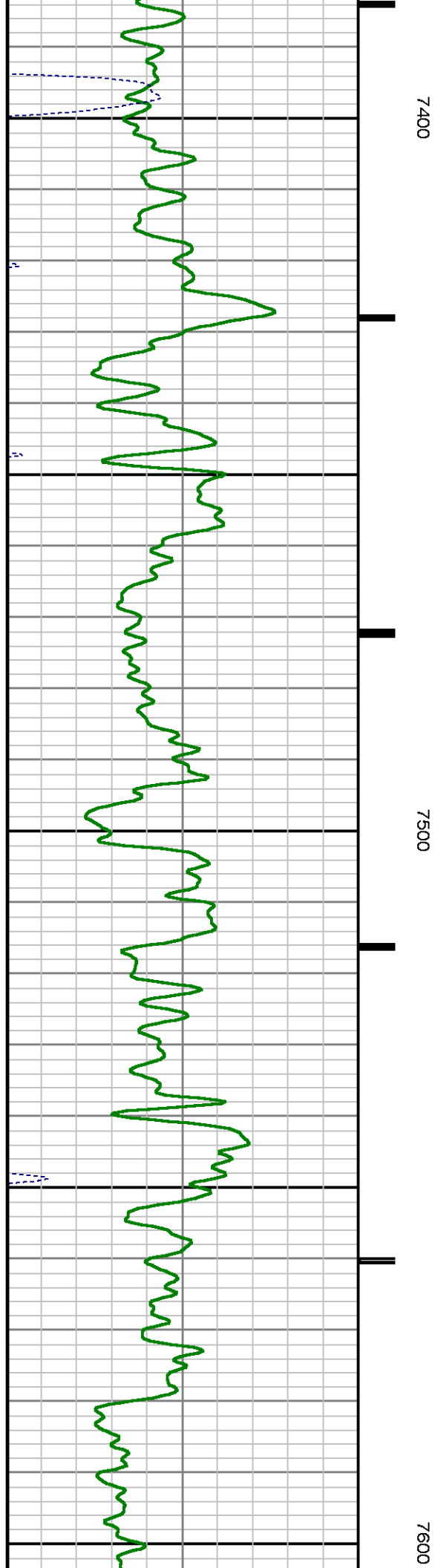
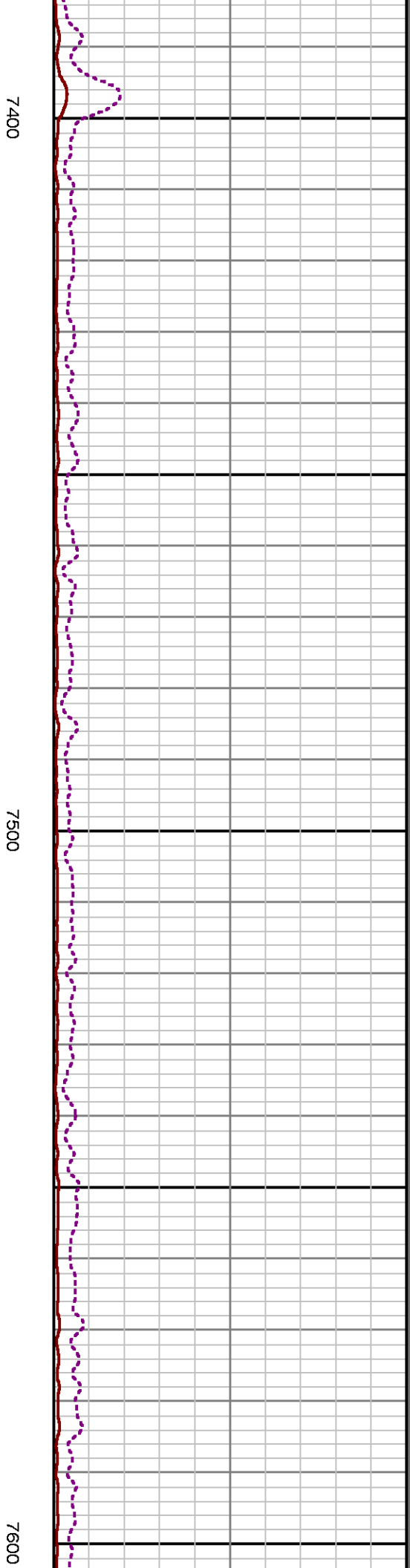
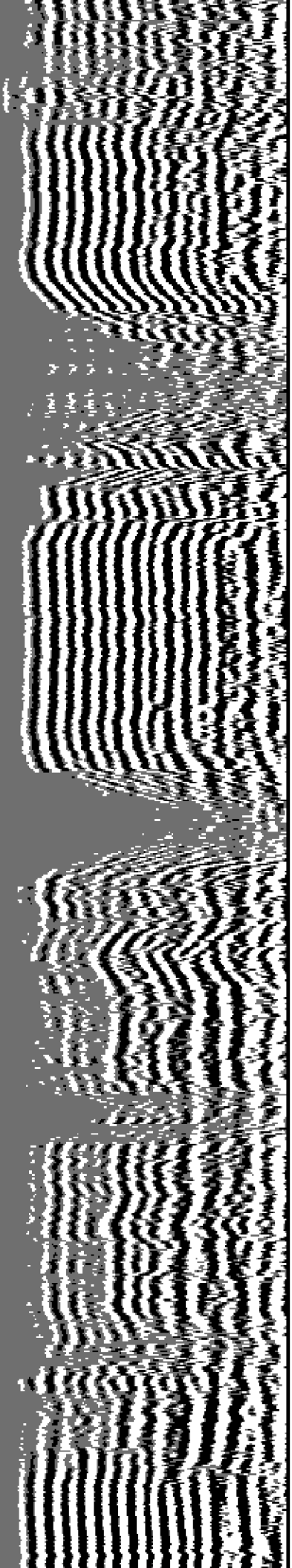


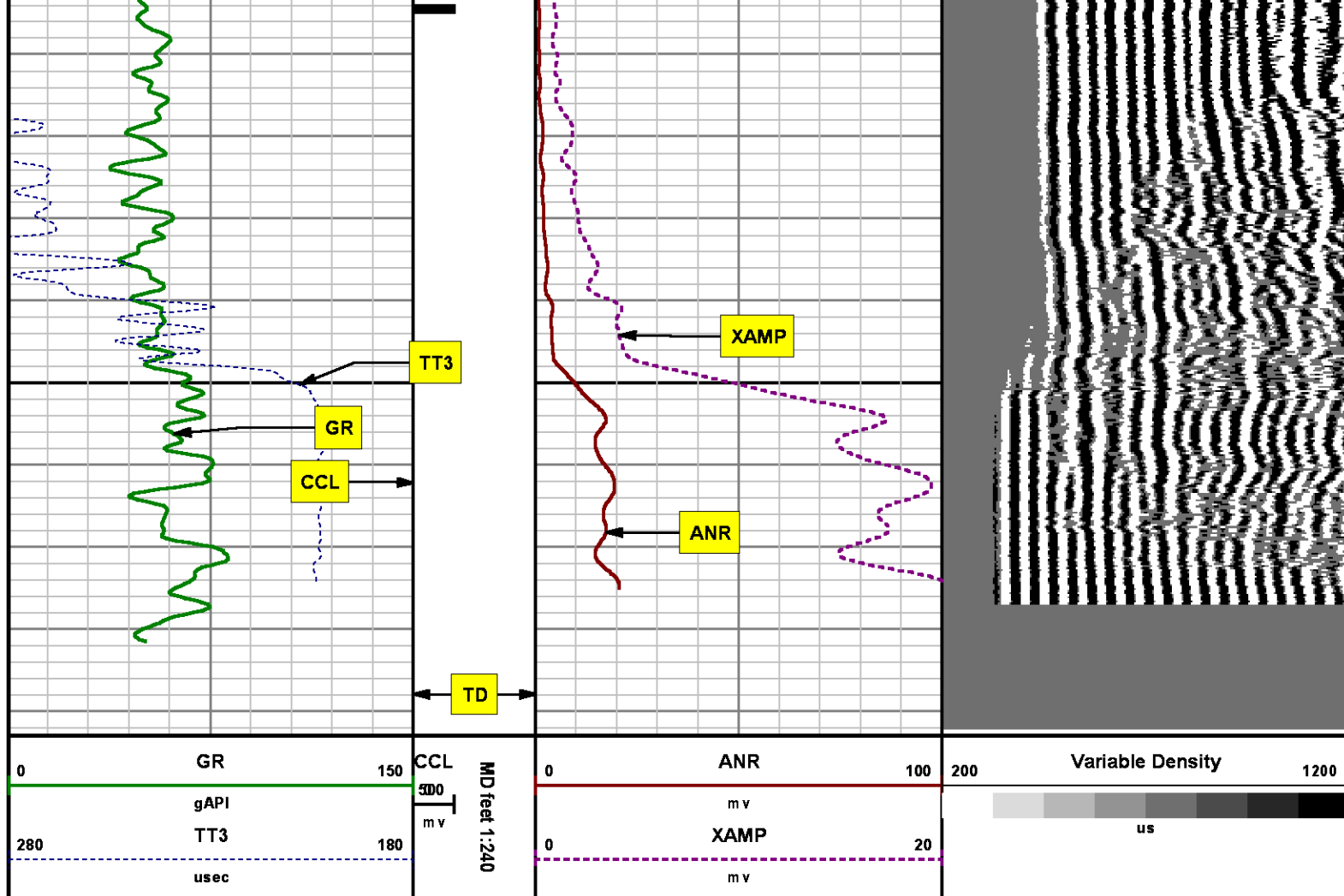


7200

7300







SECONDARY PRESENTATION 0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.468	7693.000
RAL	Amp Gate Start Near	195.000	usec	35.468	7693.000
RAL	Amp Gate Start Radial	195.000	usec	35.468	7693.000
RAL	Amp Gate Width Far	25.000	usec	35.468	7693.000
RAL	Amp Gate Width Near	25.000	usec	35.468	7693.000
RAL	Amp Gate Width Radial	25.000	usec	35.468	7693.000
RAL	casing od	4.500	inches	35.468	7693.000
RAL	casing wt	11.600	lbm/ft	35.468	7693.000
RAL	FB Start Far	291.900	usec	35.468	7693.000

RAL	FB Start Far	200.000	usec	35.468	7693.000
RAL	FB Start Radial	180.000	usec	35.468	7693.000
RAL	FB Thresh Far	10.000	mv	35.468	7693.000
RAL	FB Thresh Near	4.000	mv	35.468	7693.000
RAL	FB Thresh Radial	4.000	mv	35.468	7693.000
RAL	Fluid Travel Time	200.000	usec/ft	35.468	7692.750

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

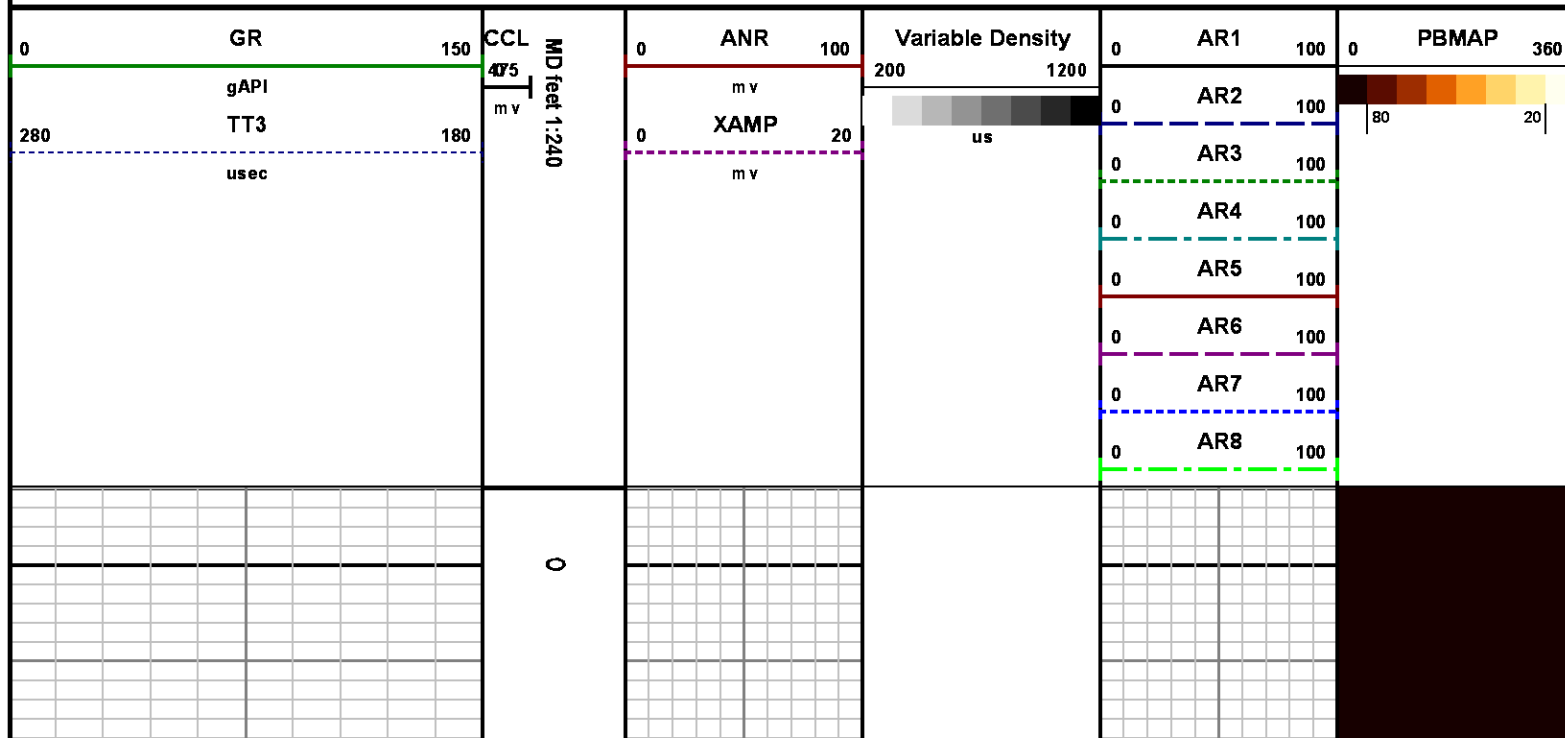
Well : WPX ENERGY PA 424-2

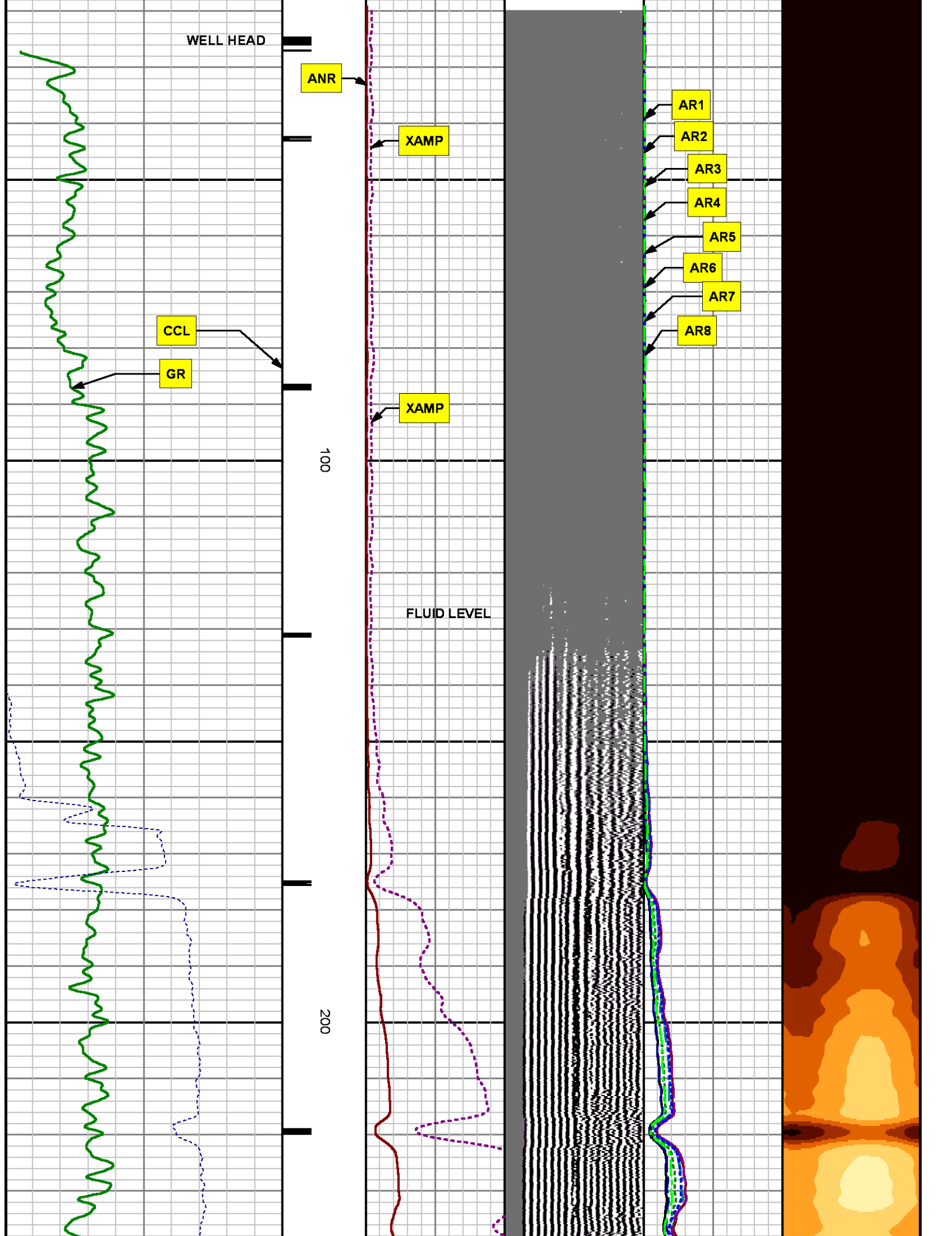
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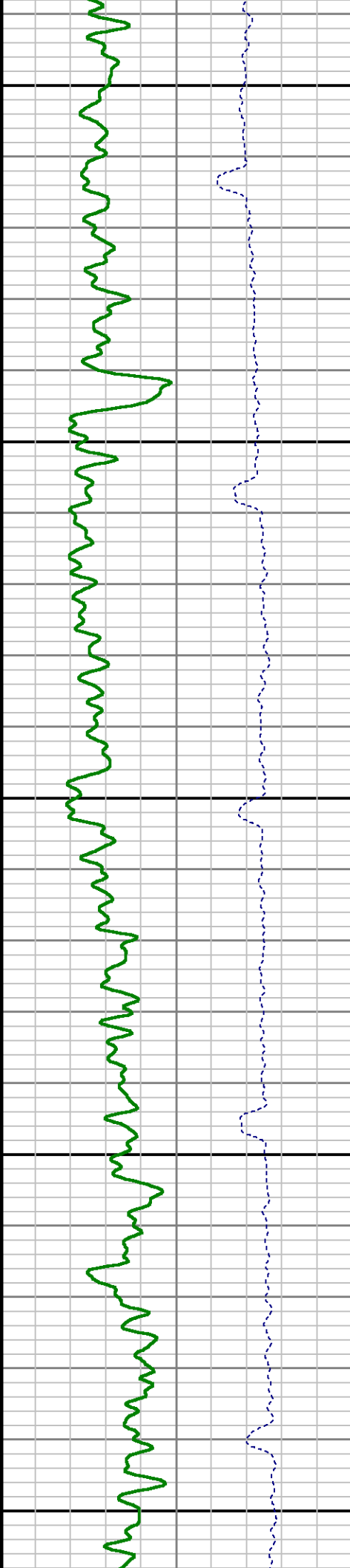
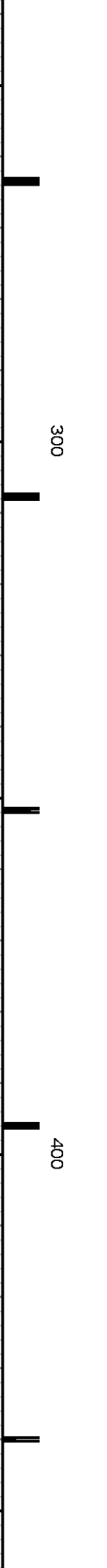
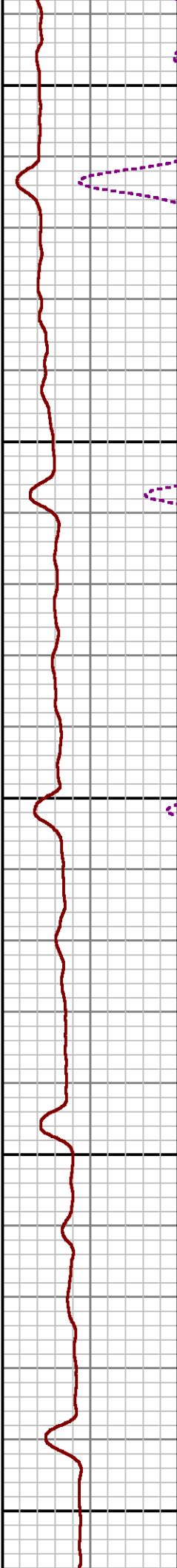
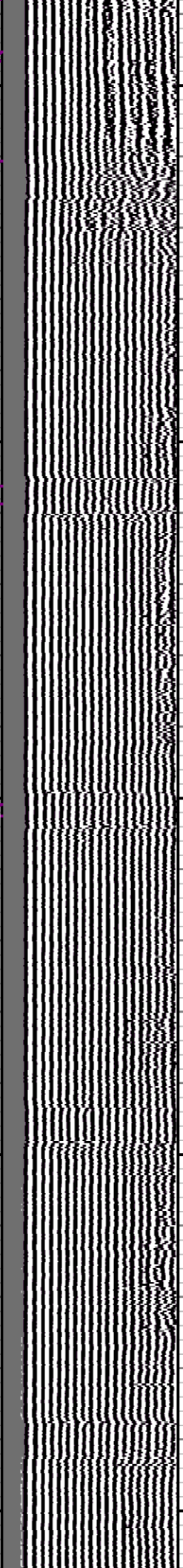
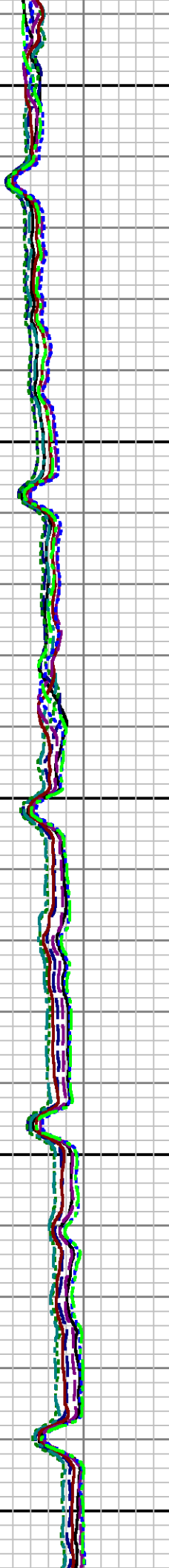
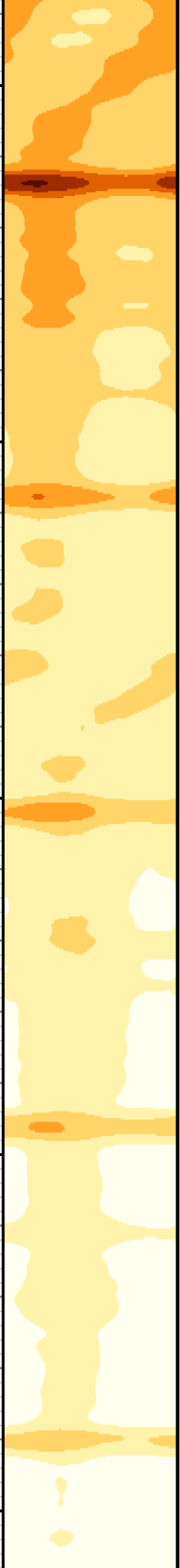
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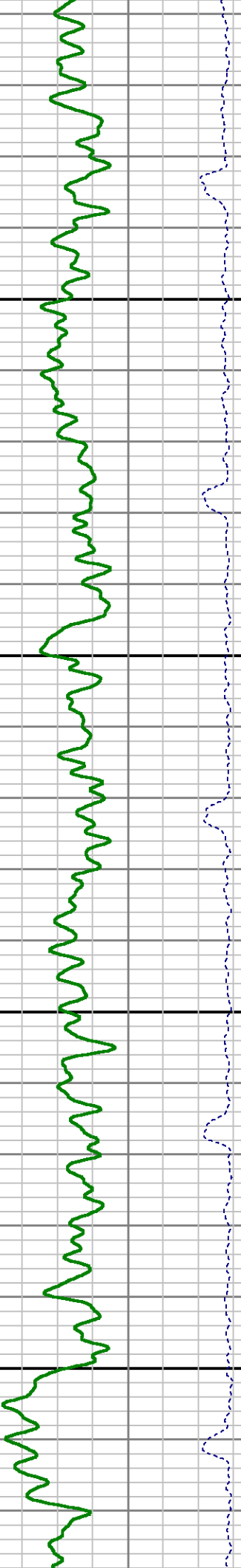
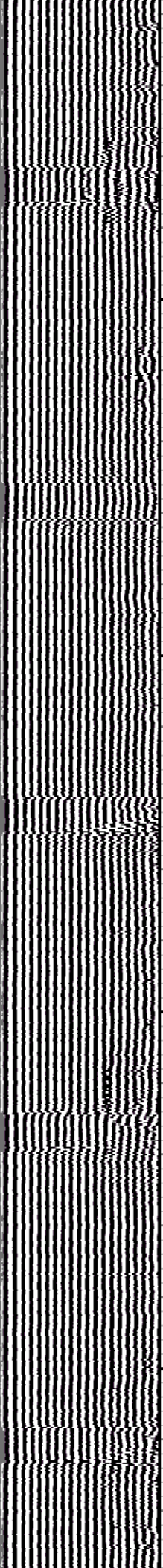
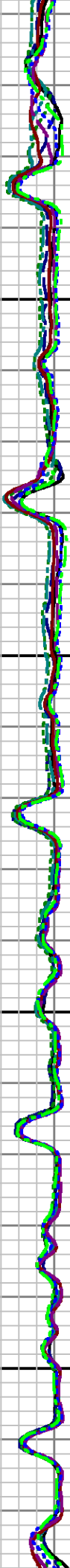
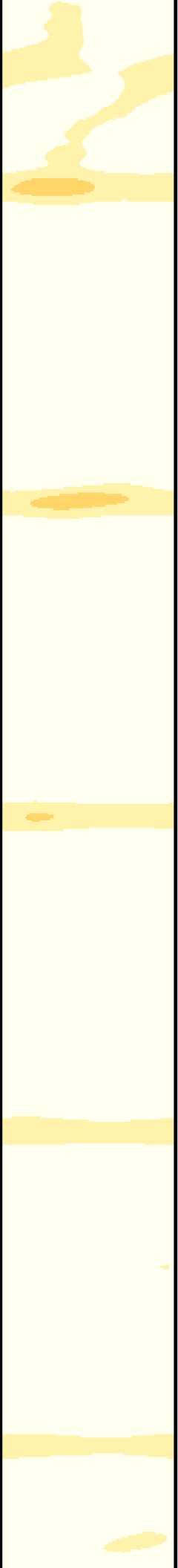
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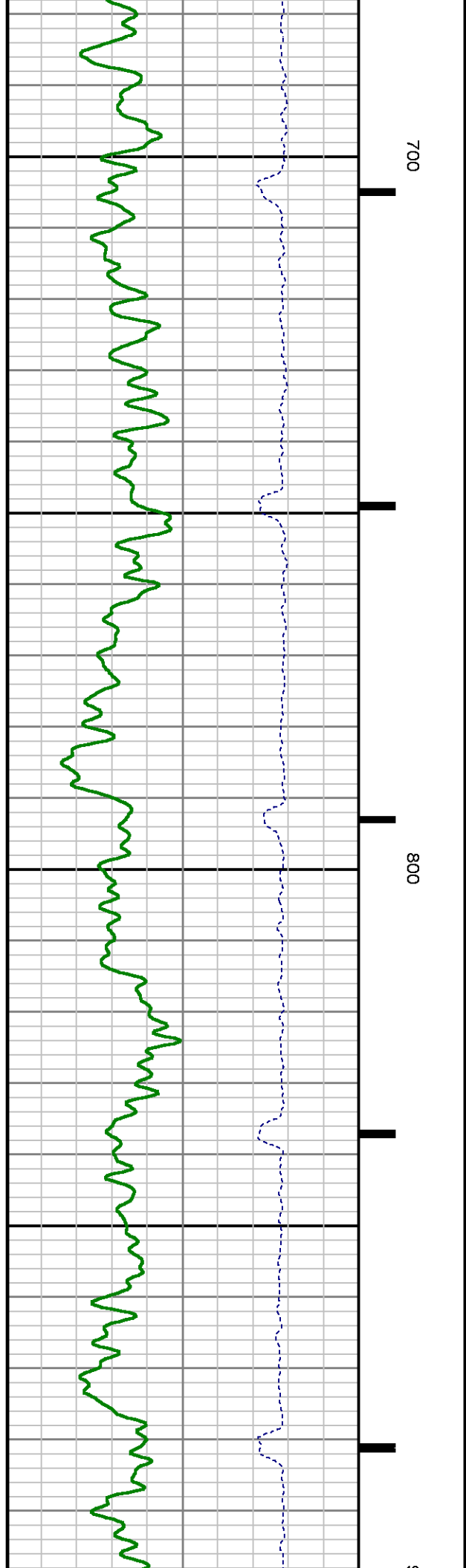
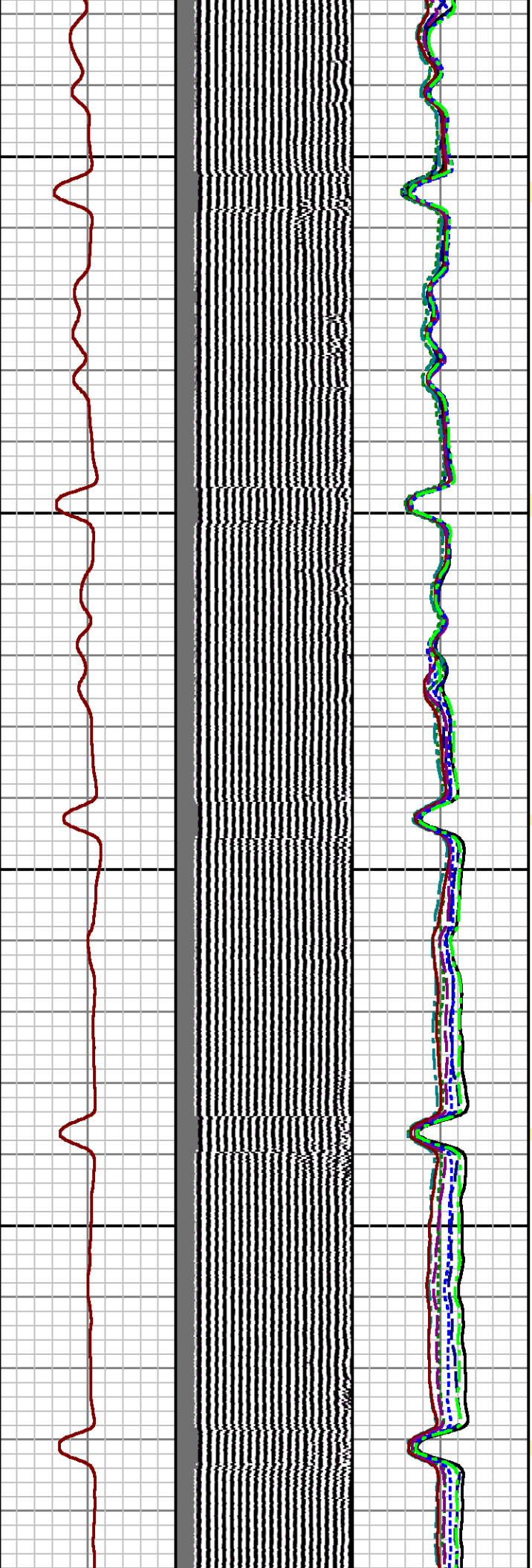
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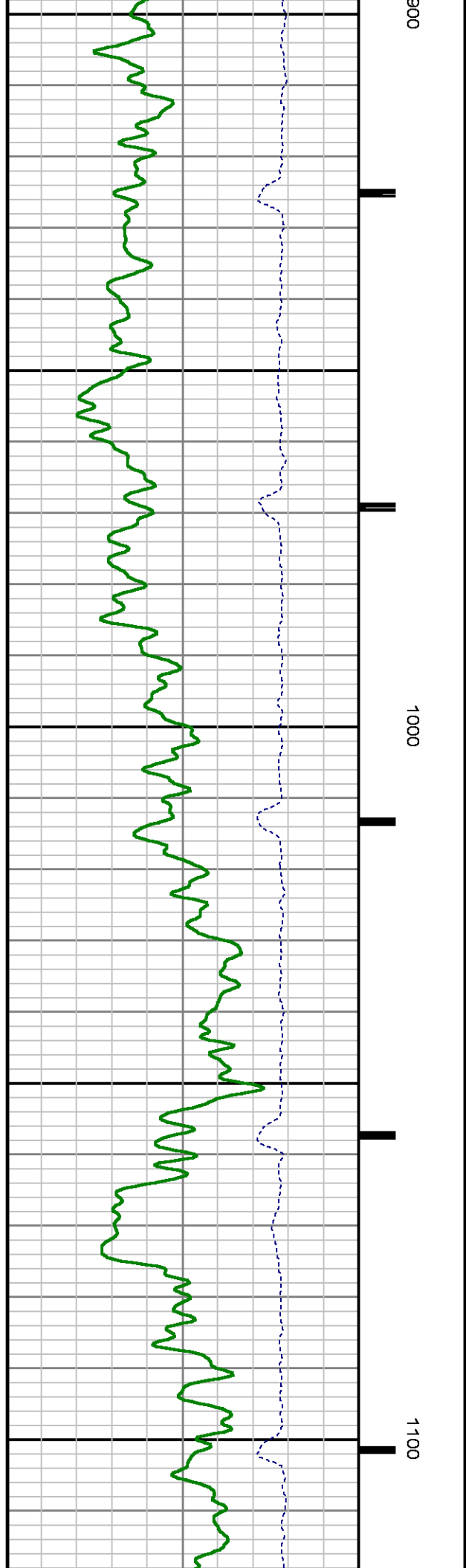
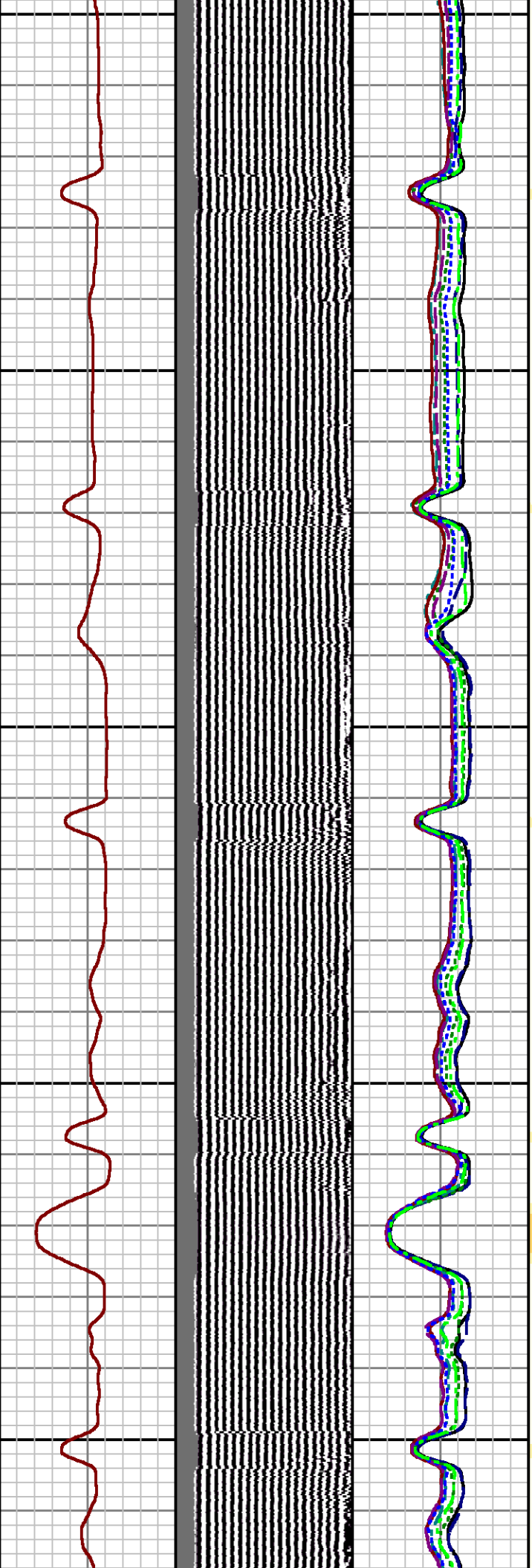


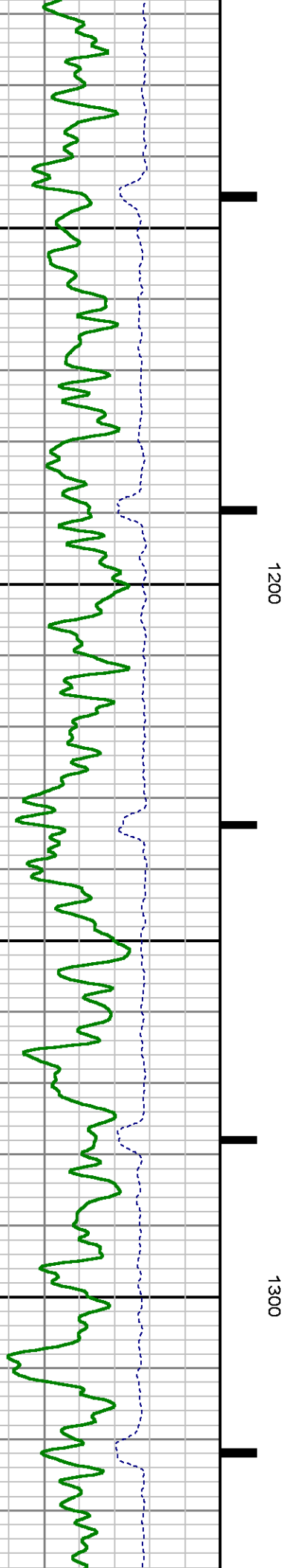
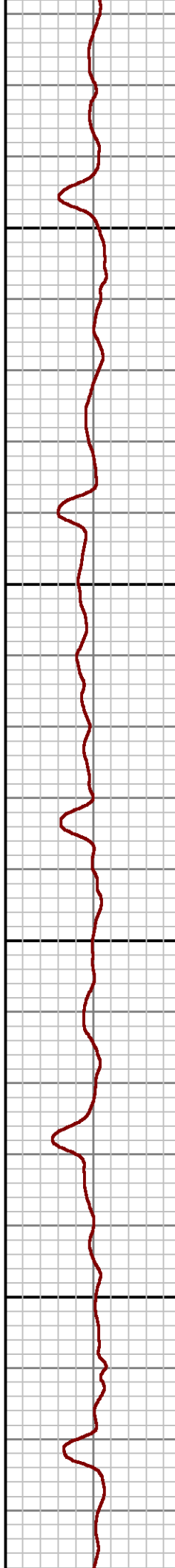
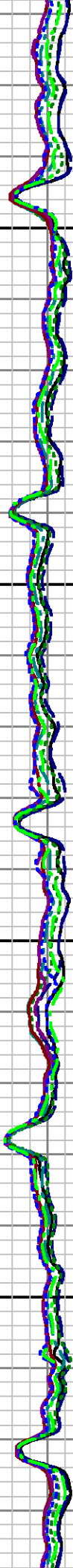
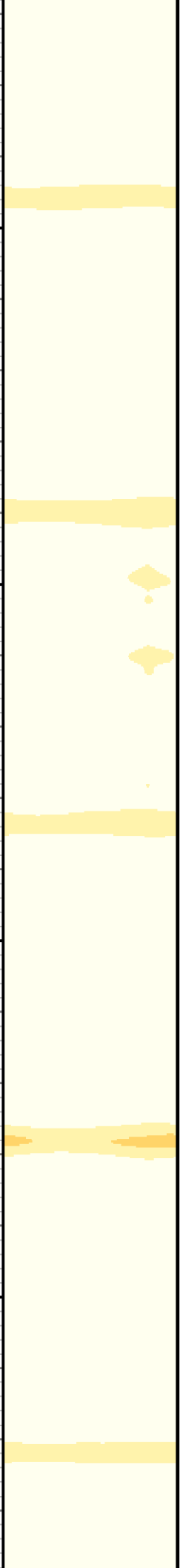


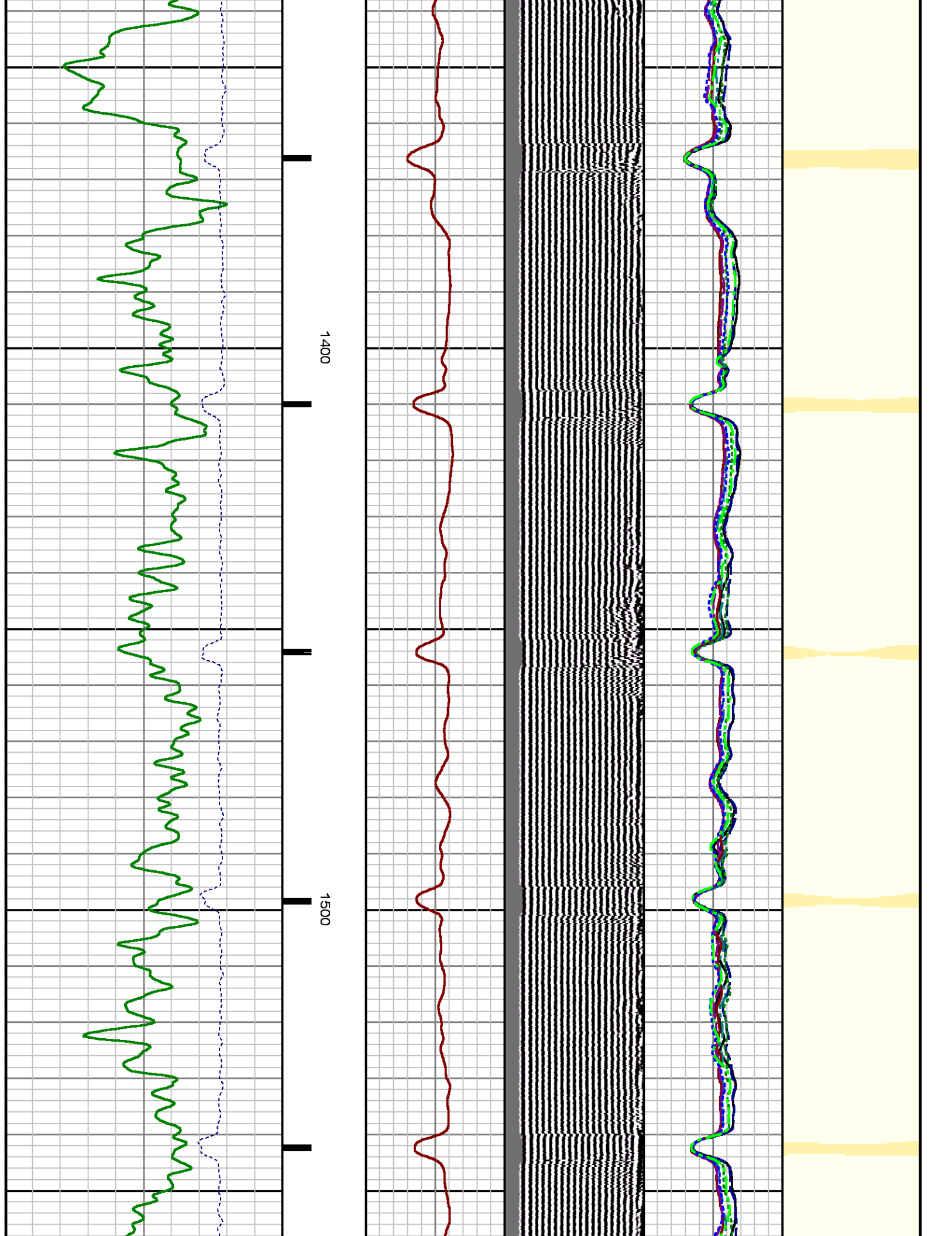


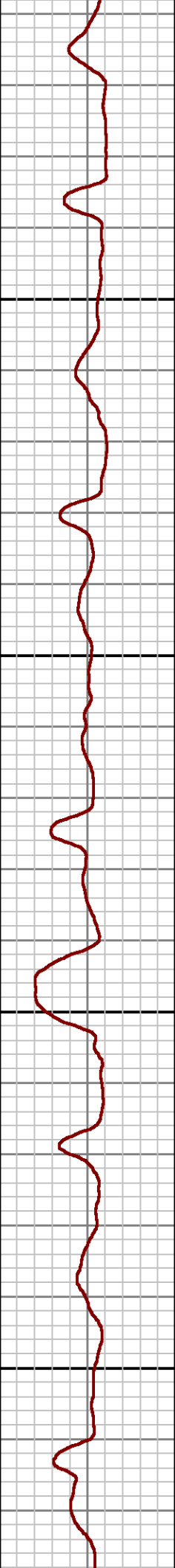
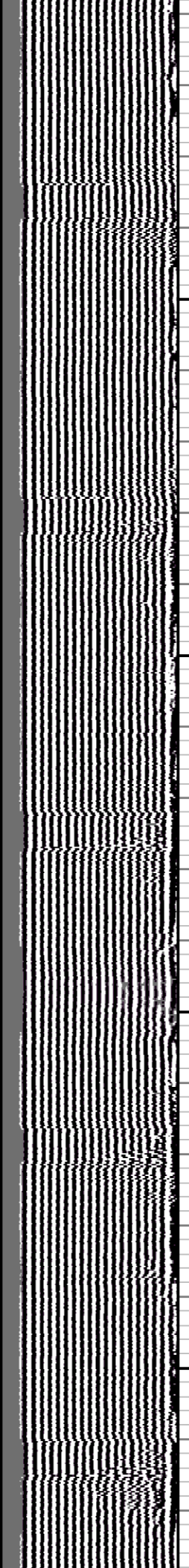
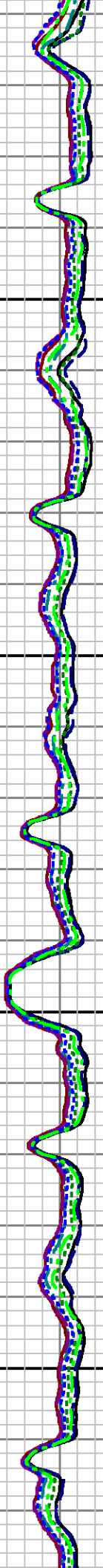
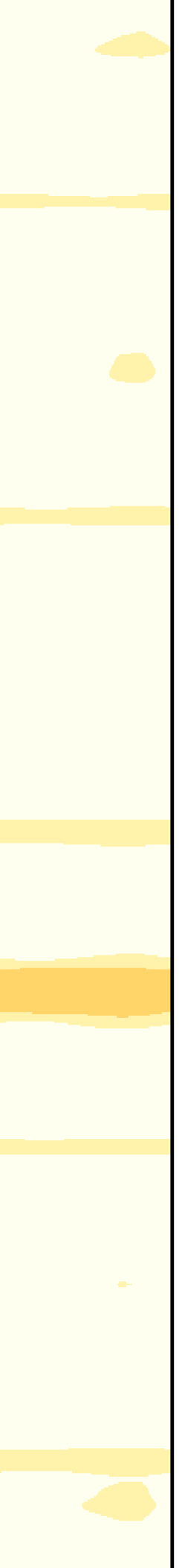






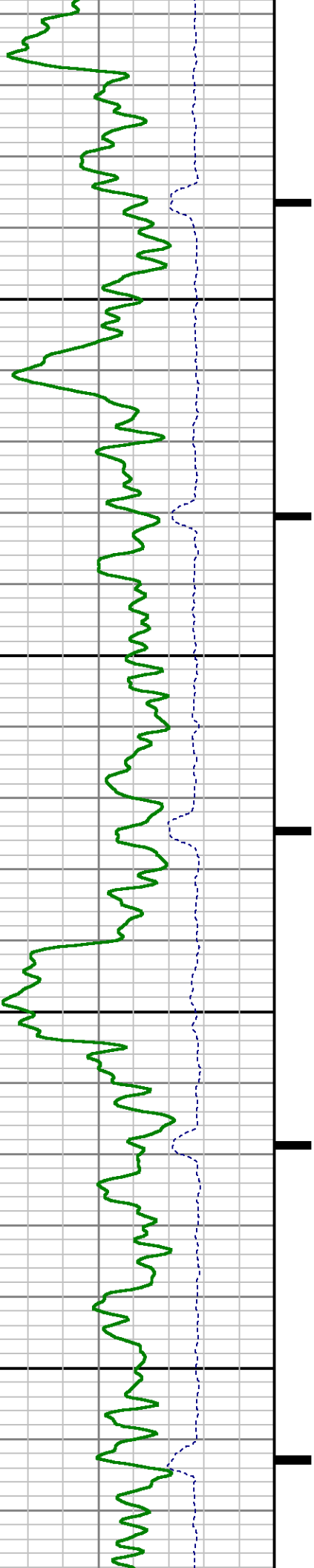


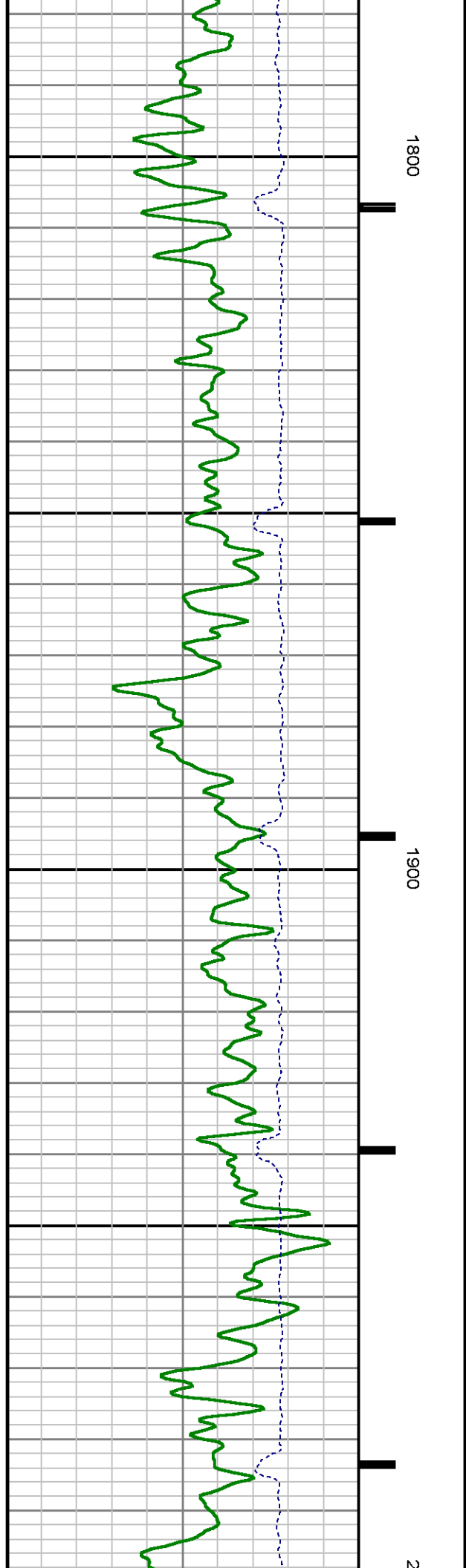
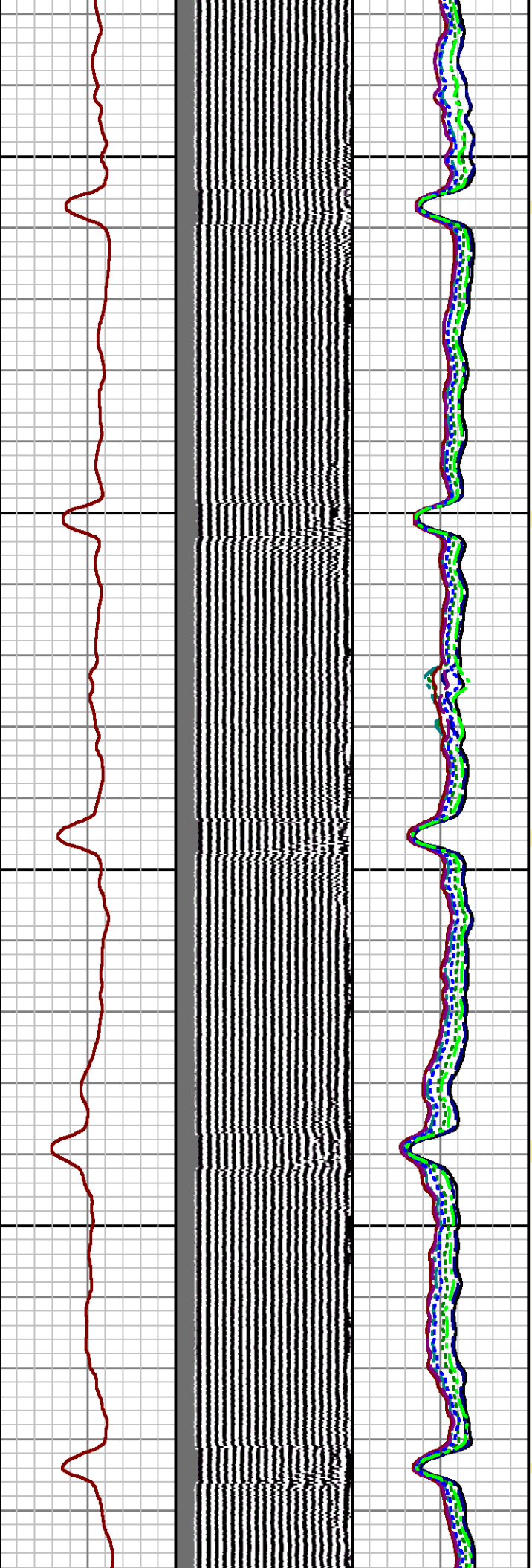
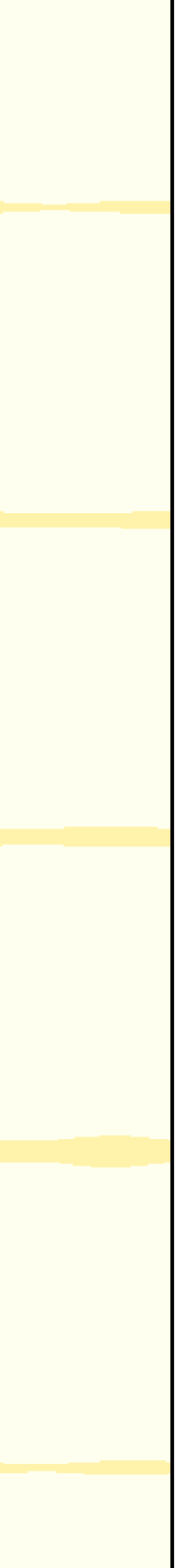


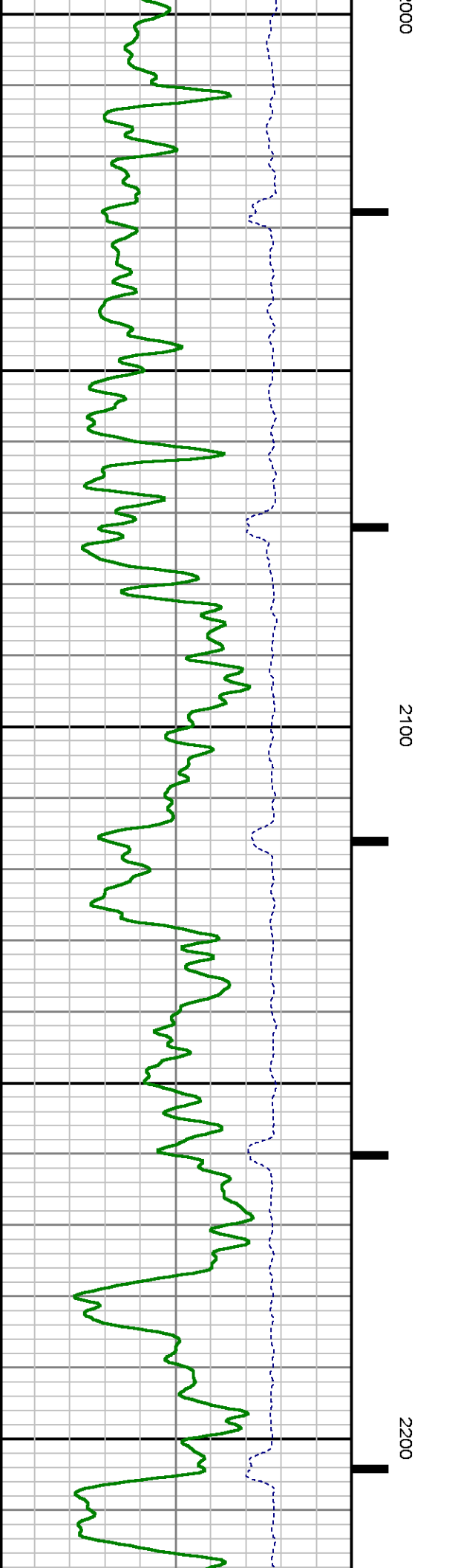
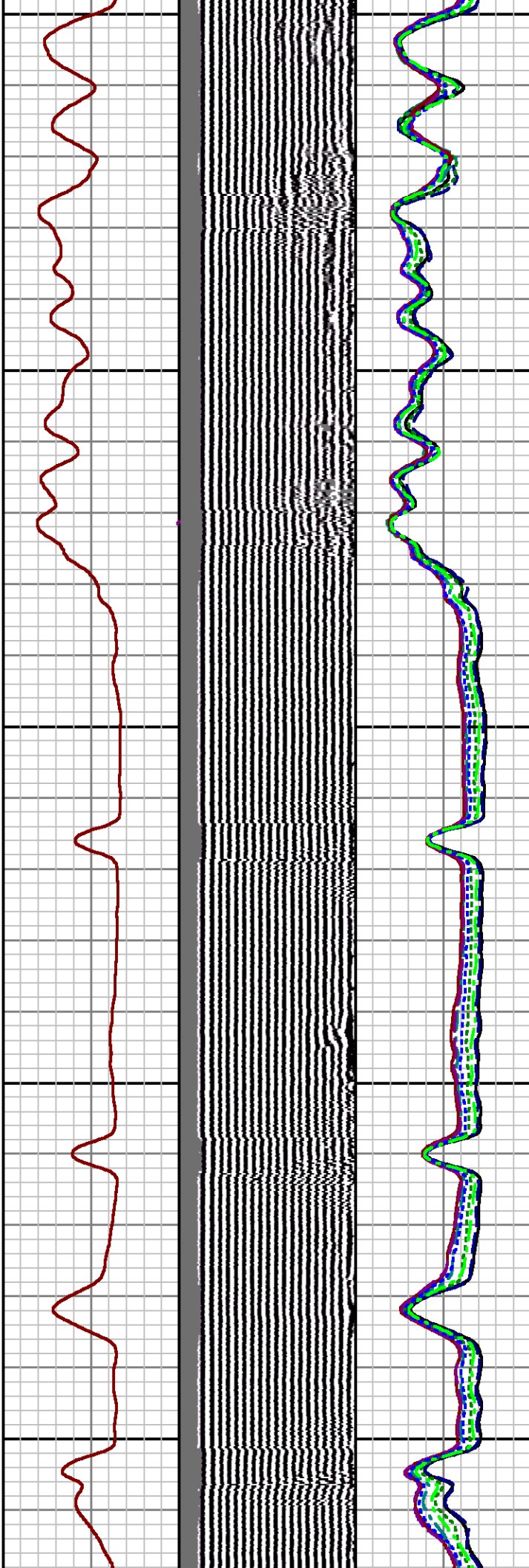
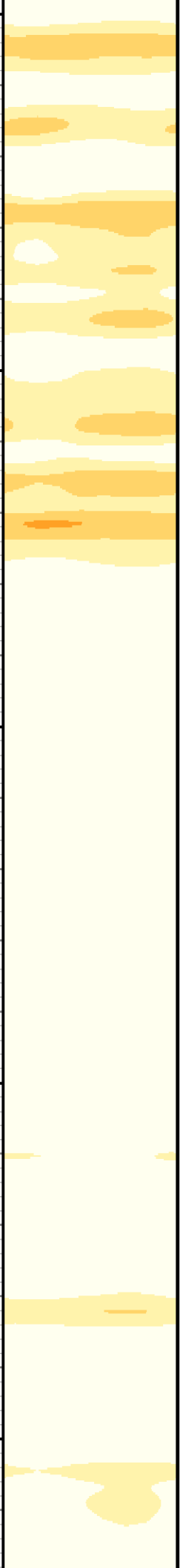


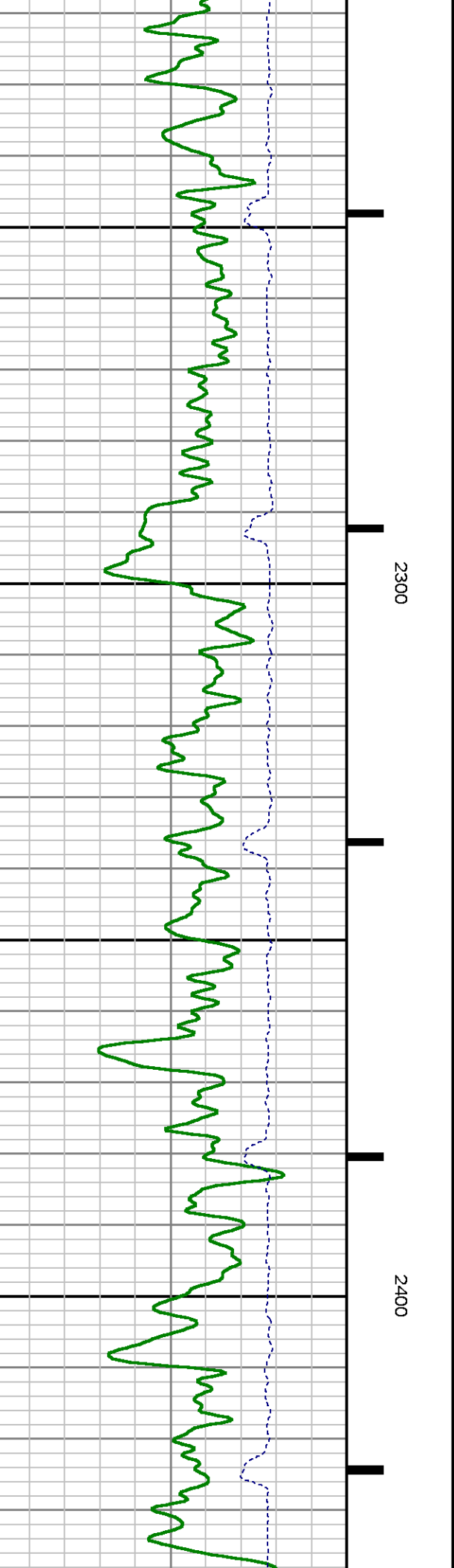
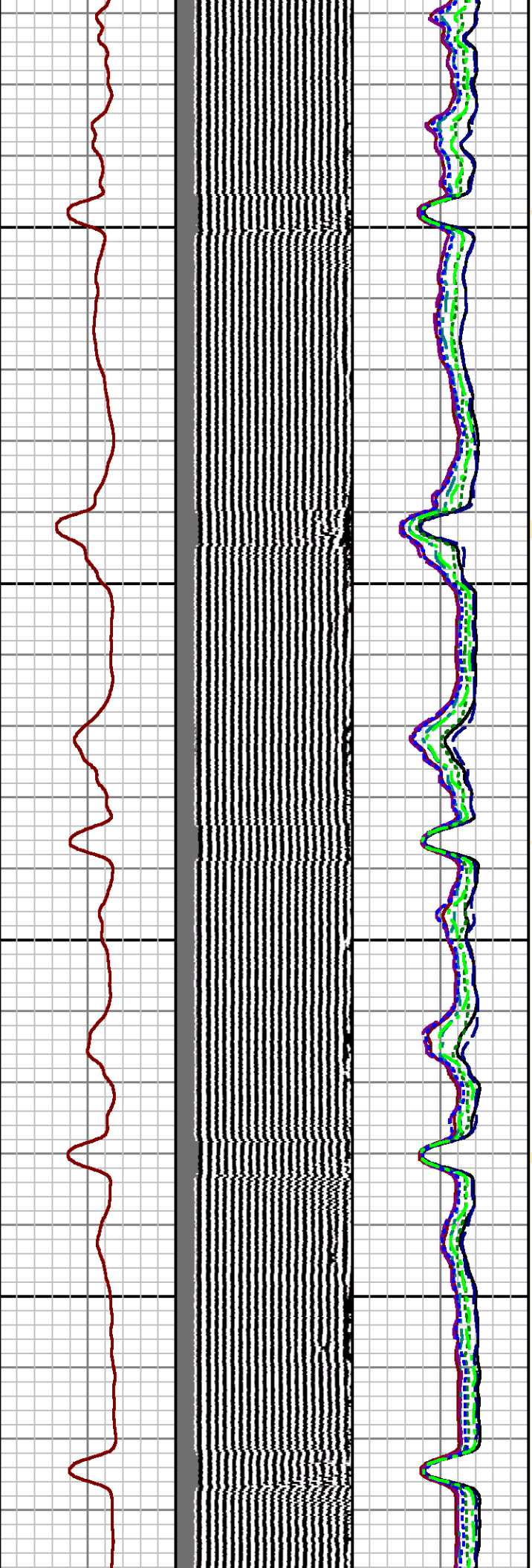
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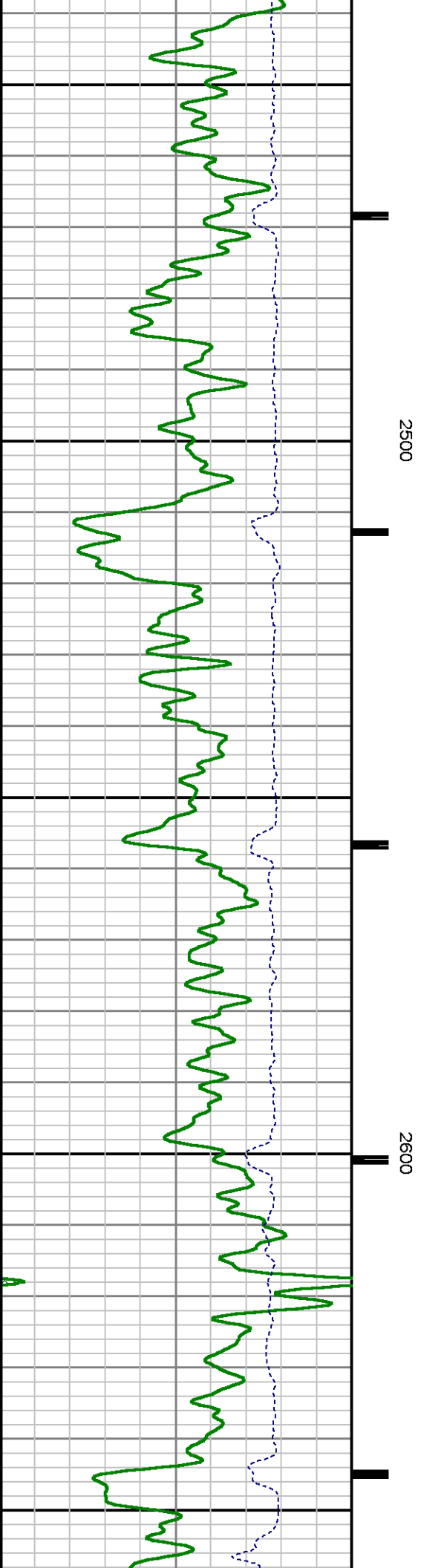
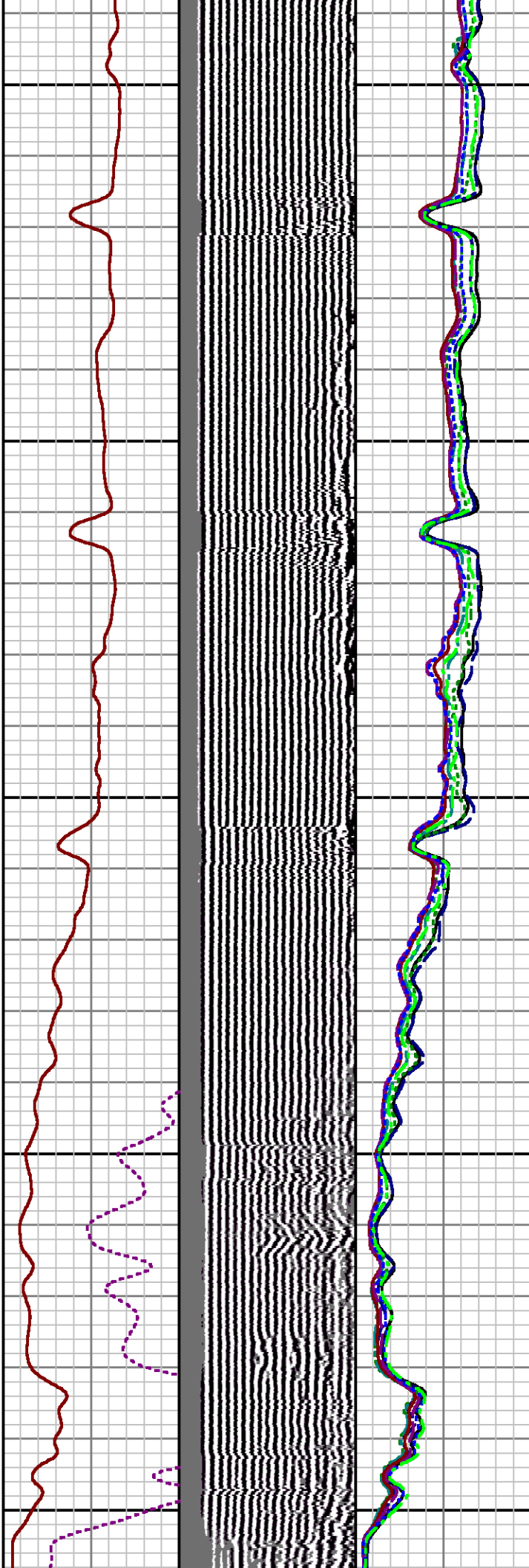
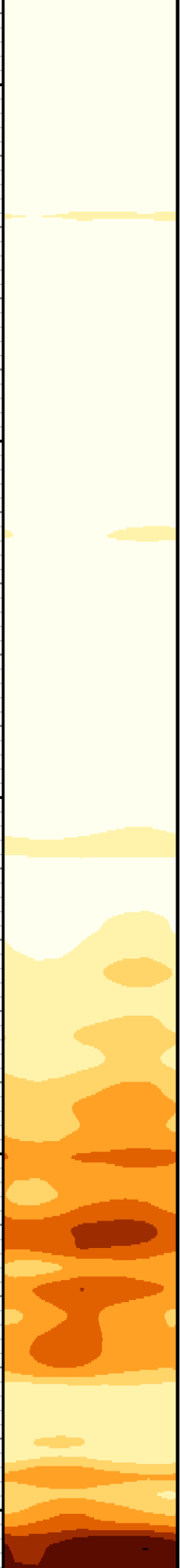
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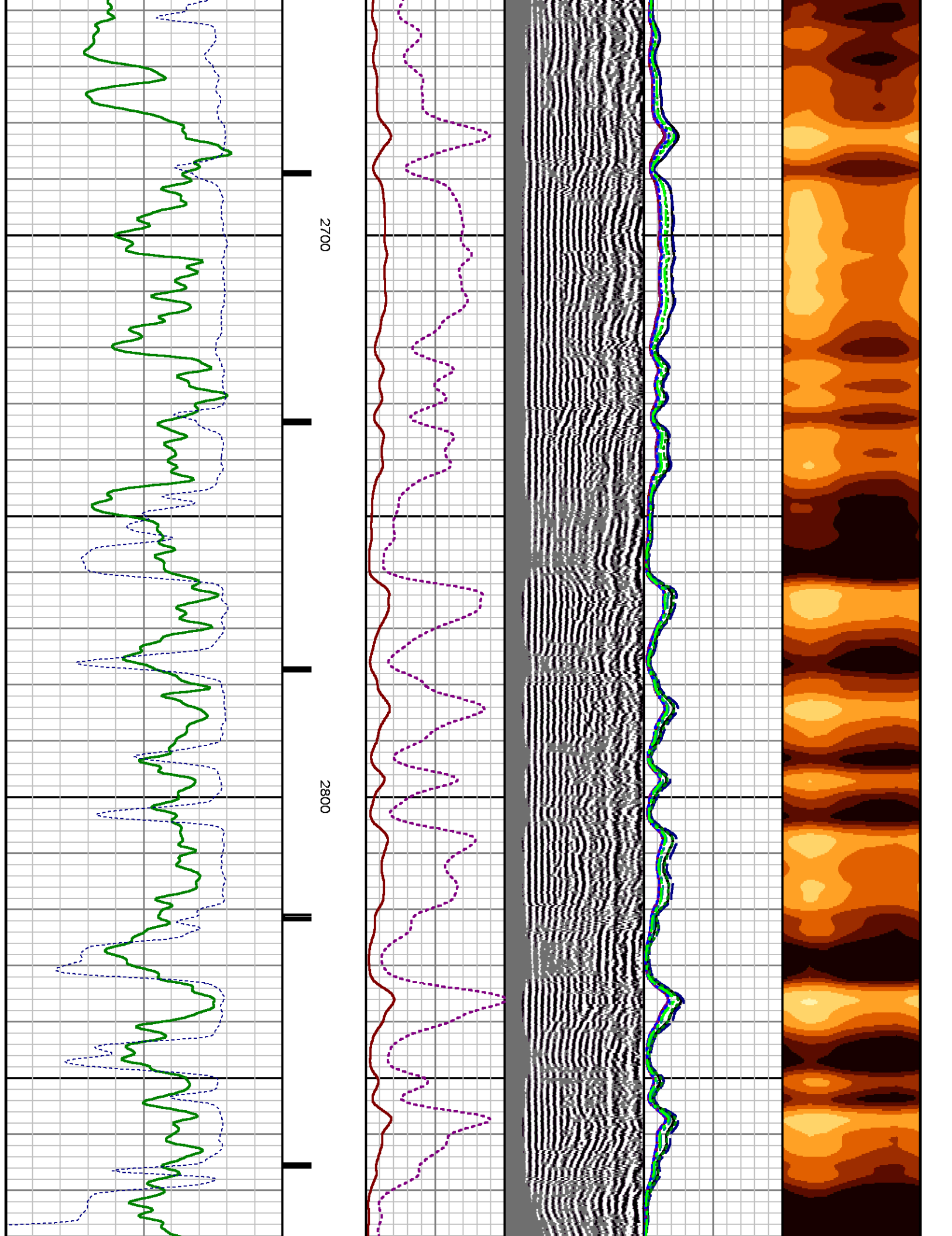


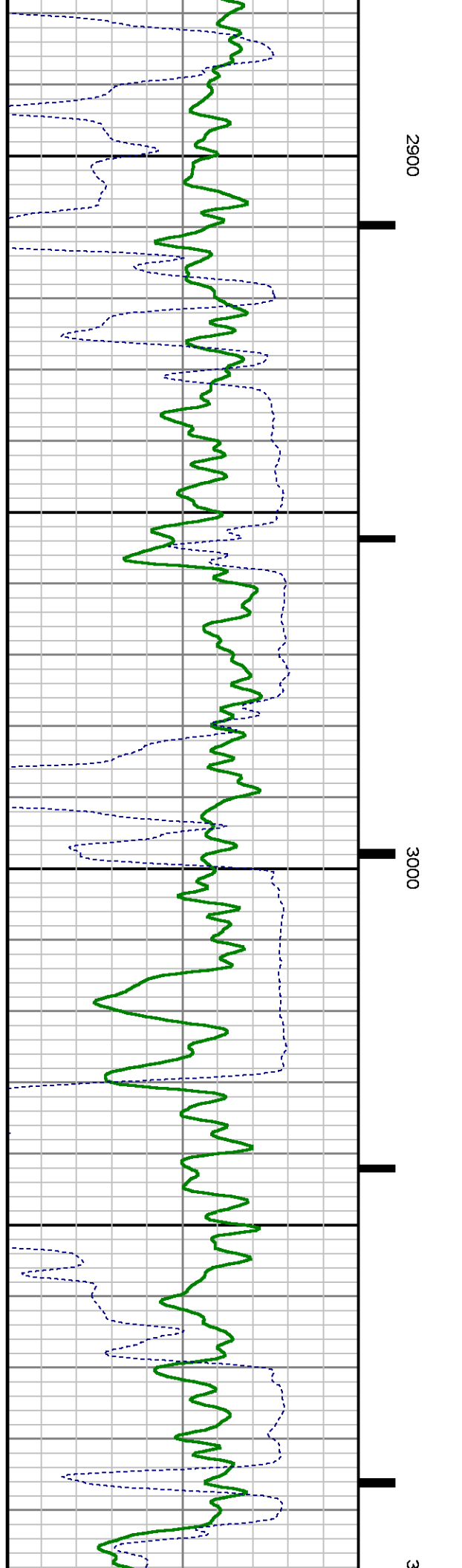
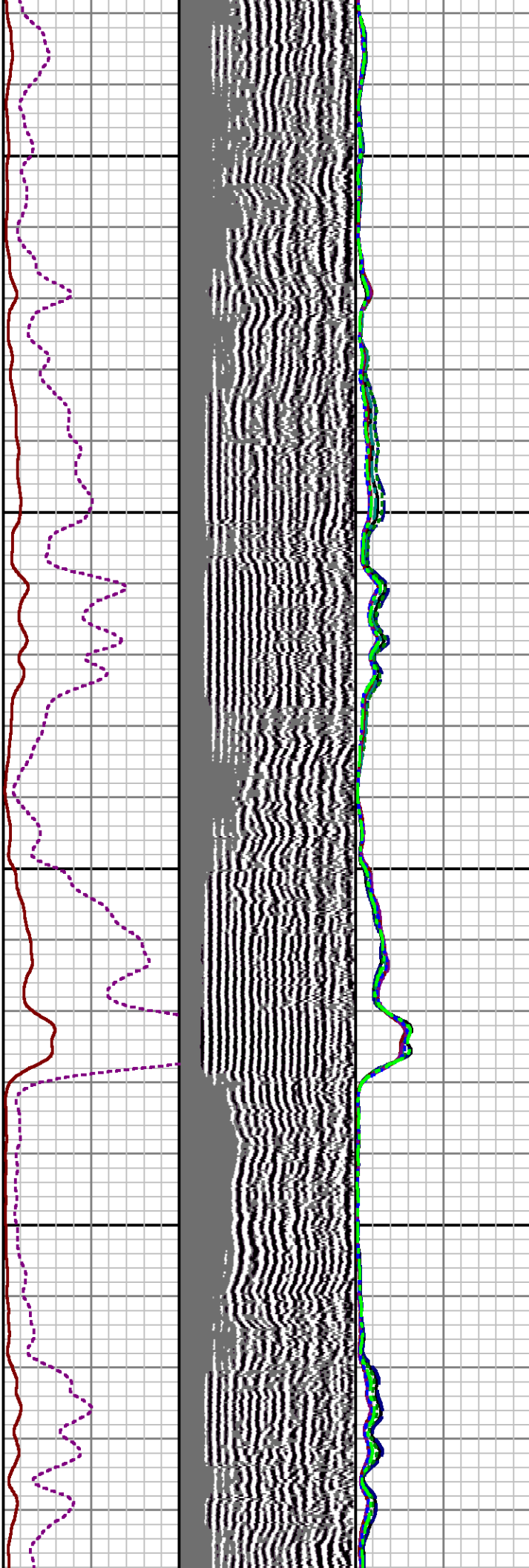
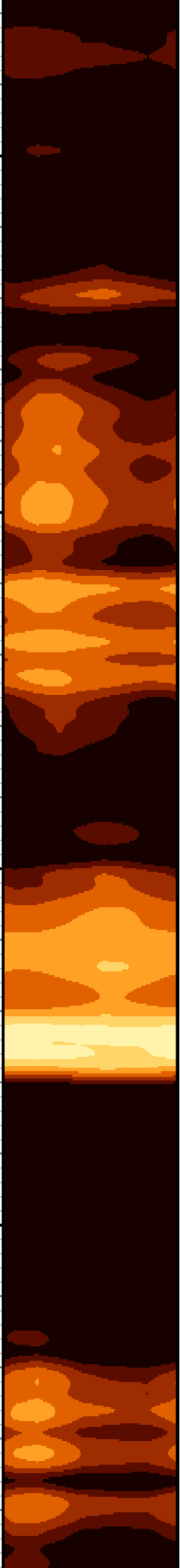


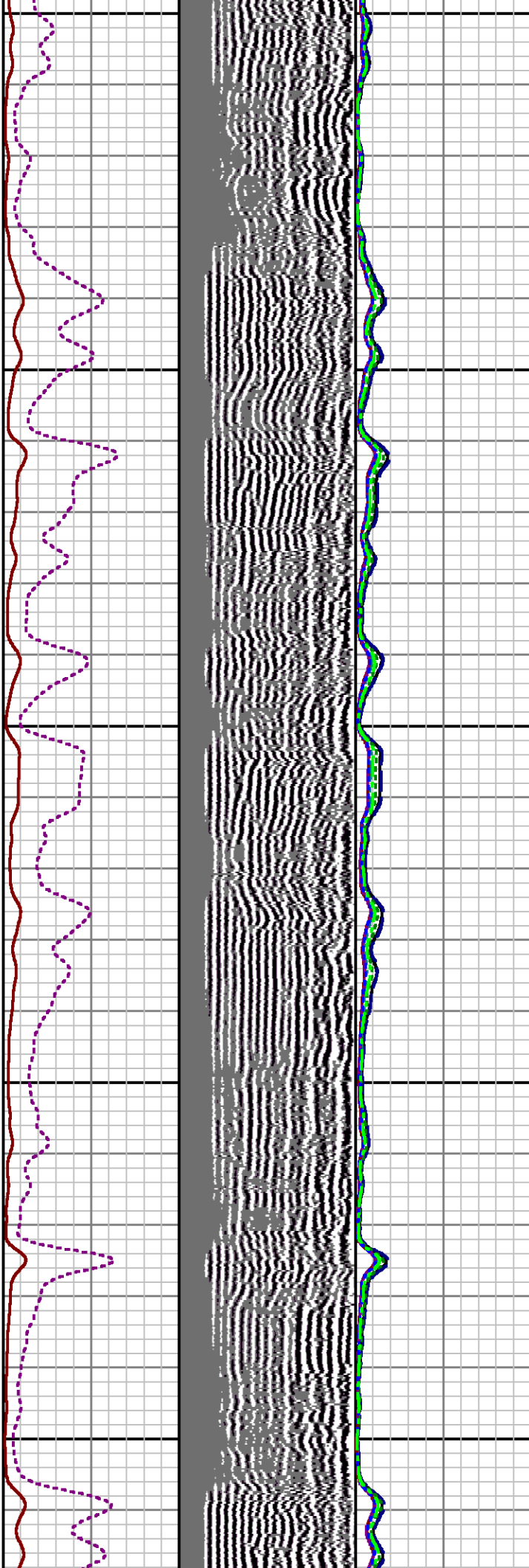
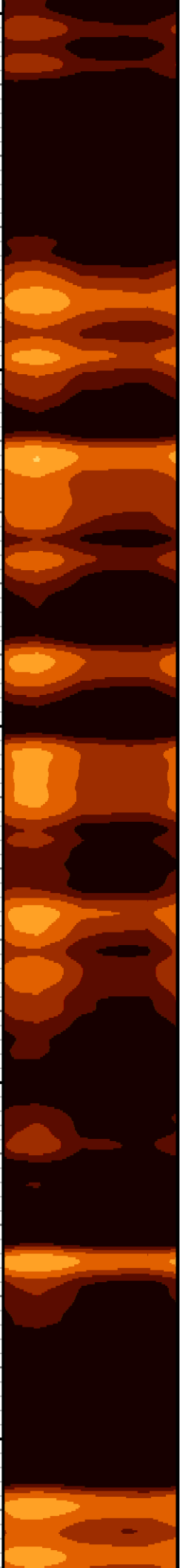








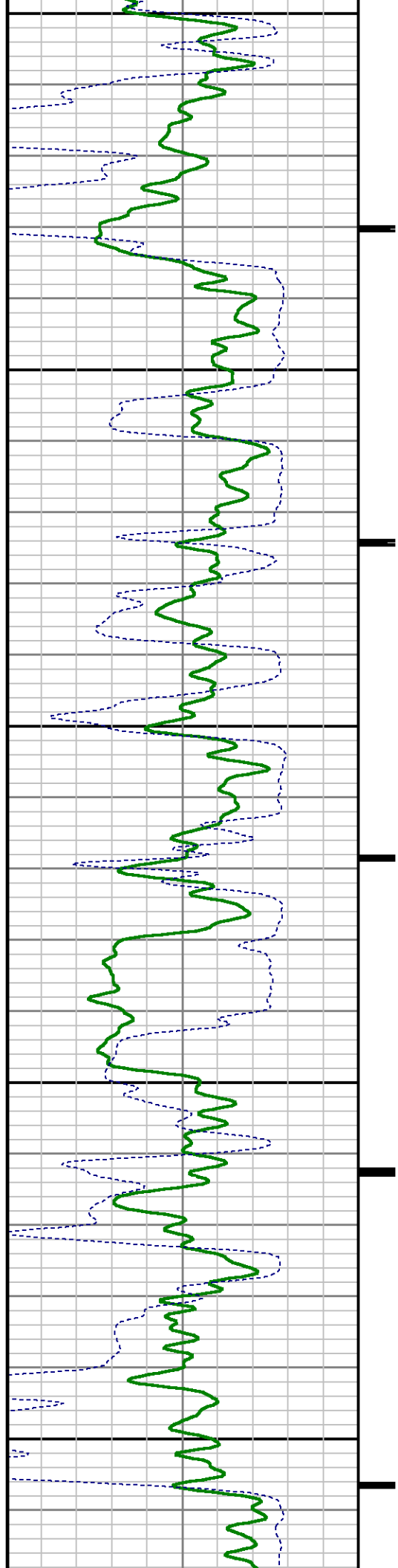


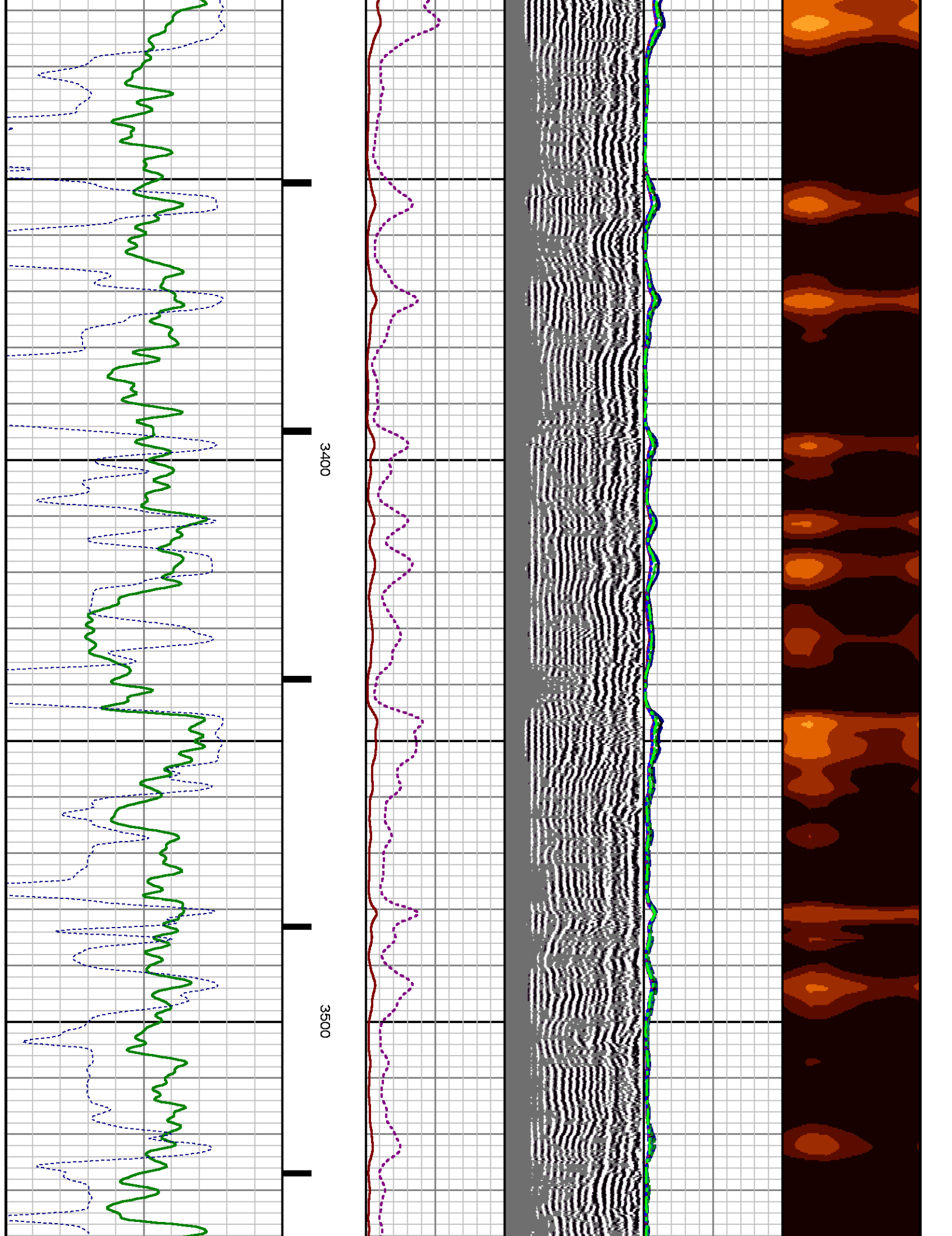


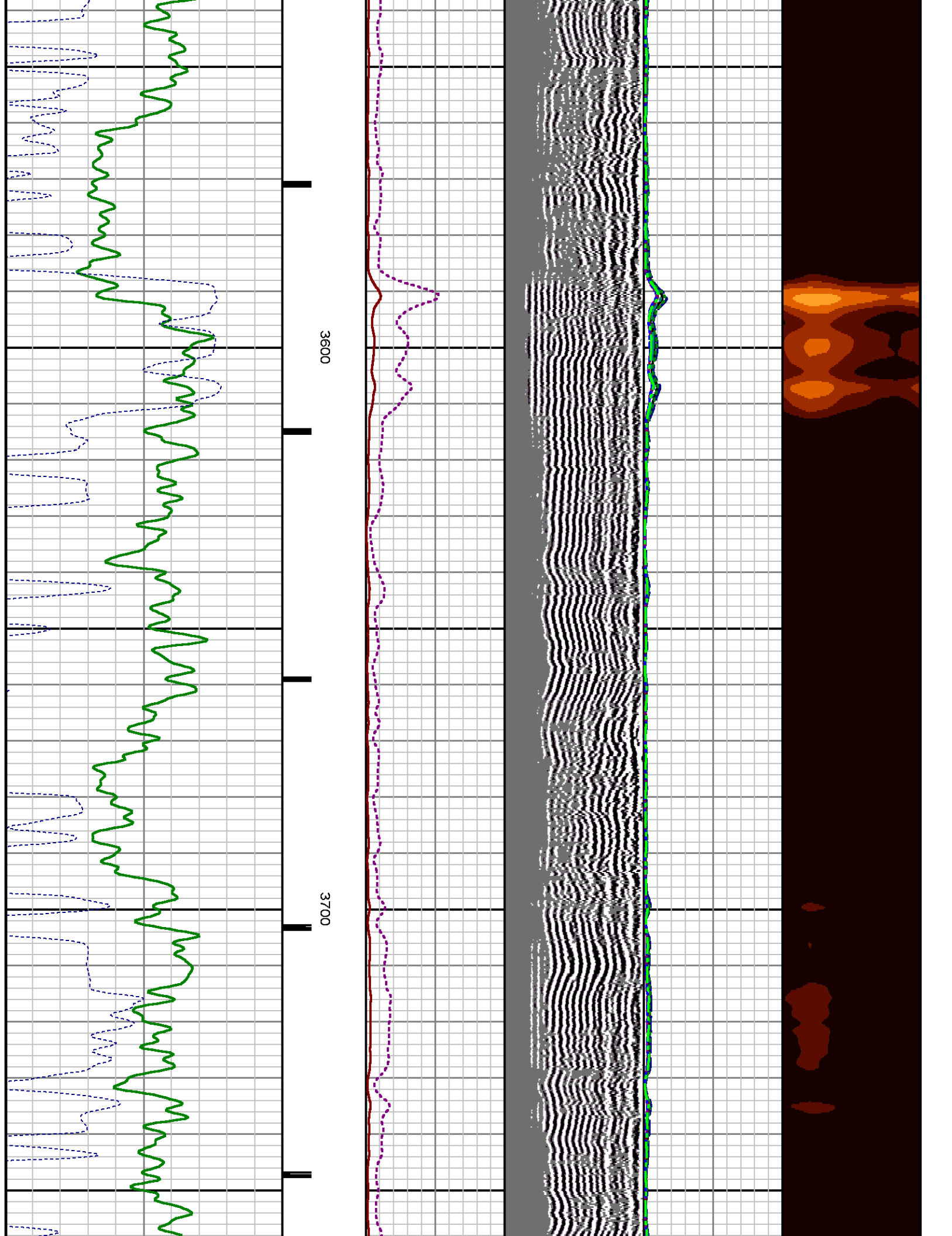
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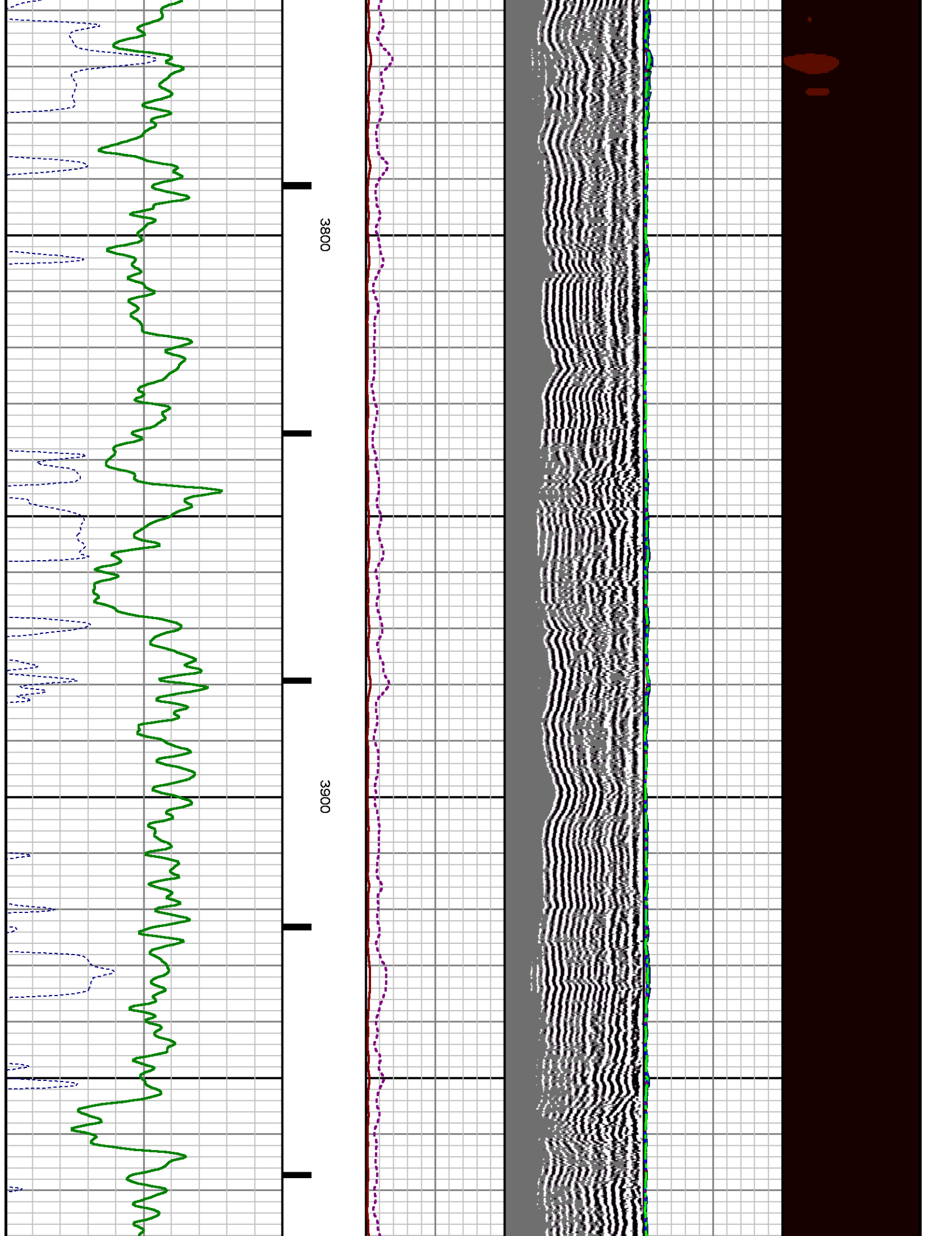
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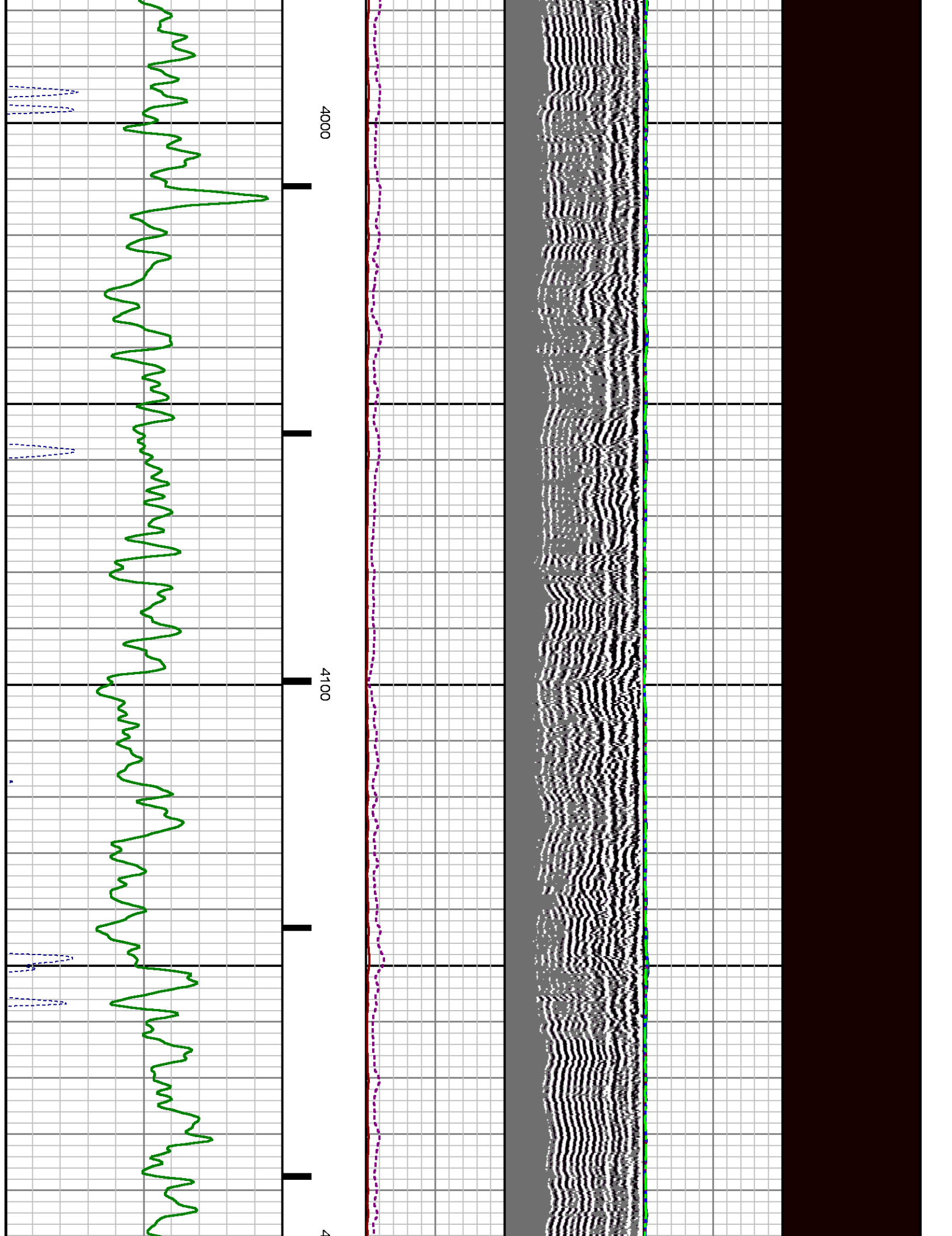
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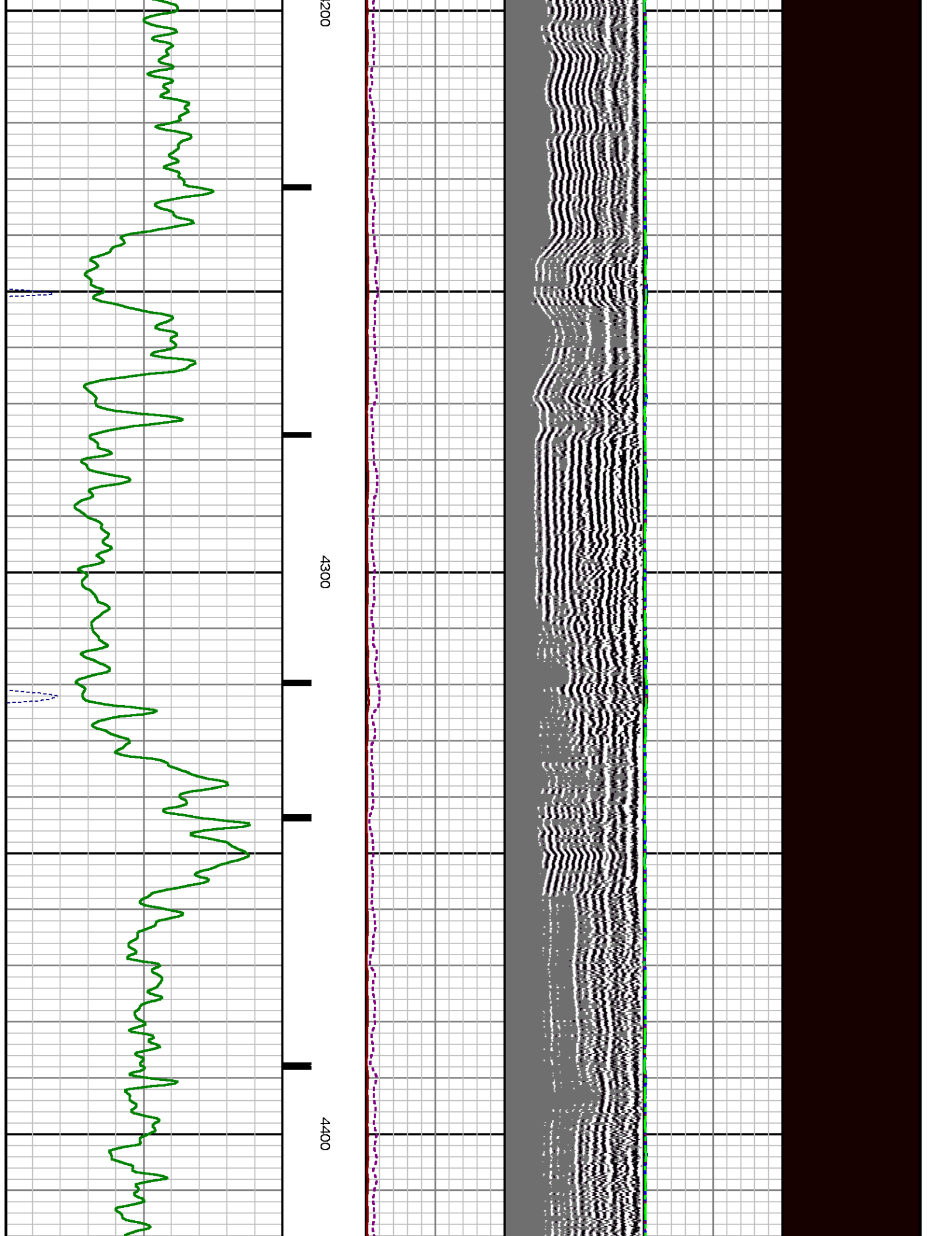


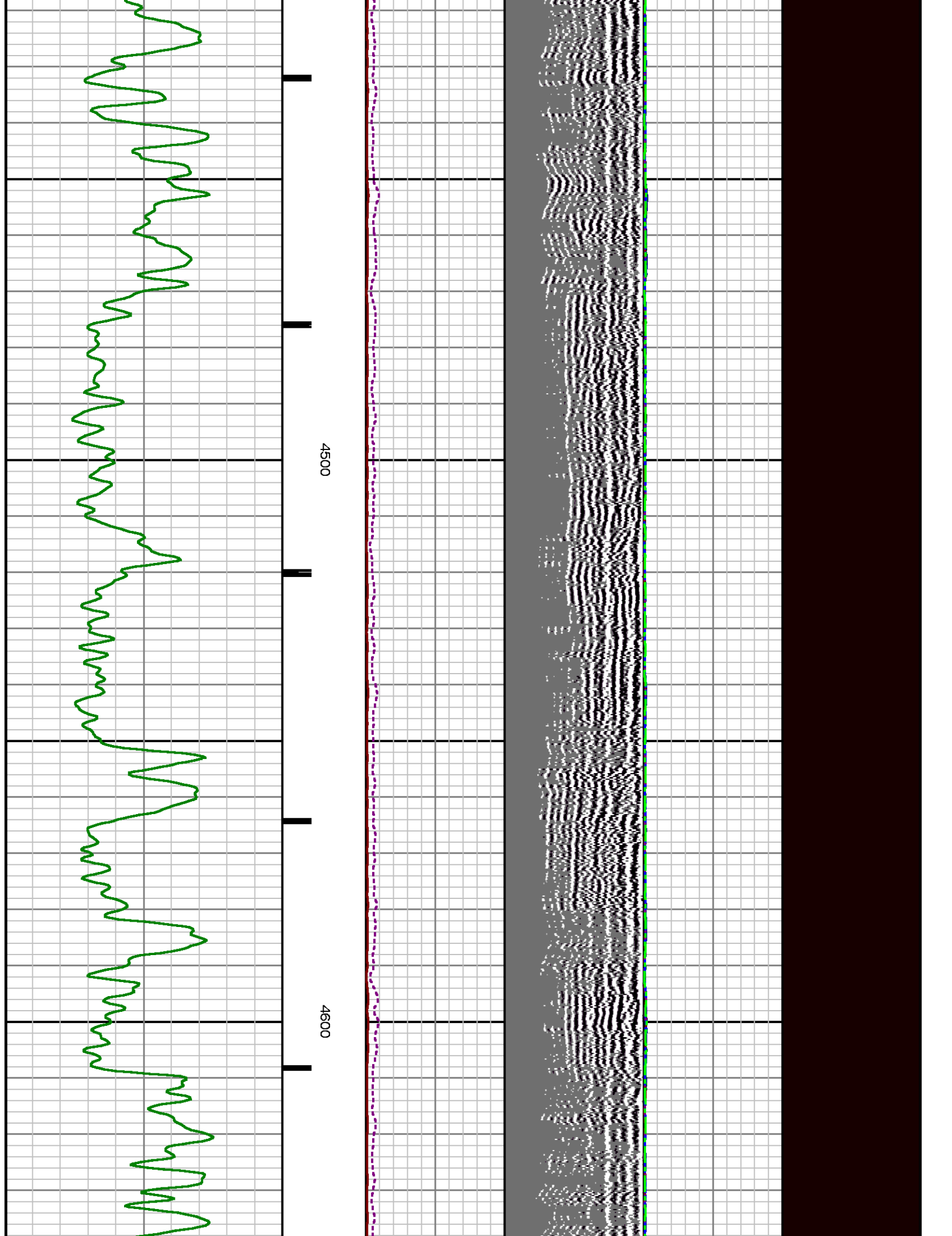


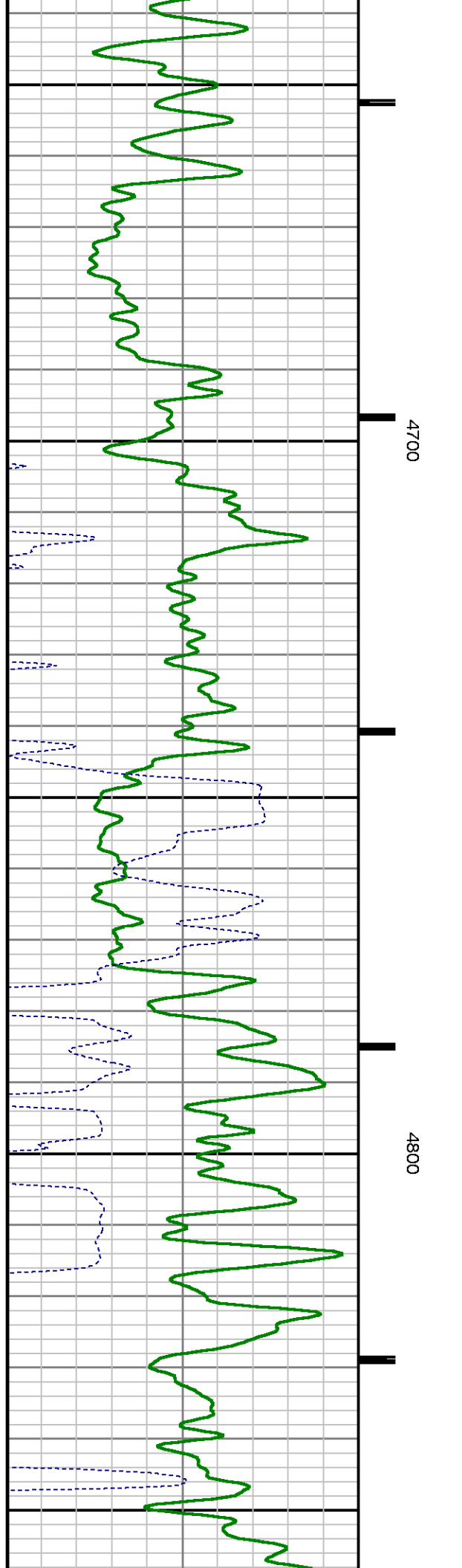
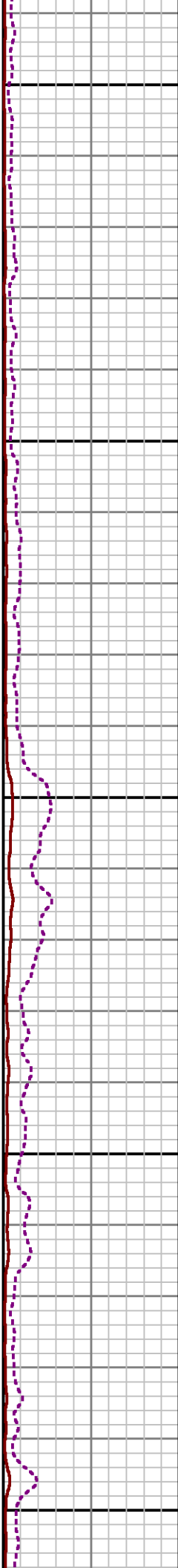
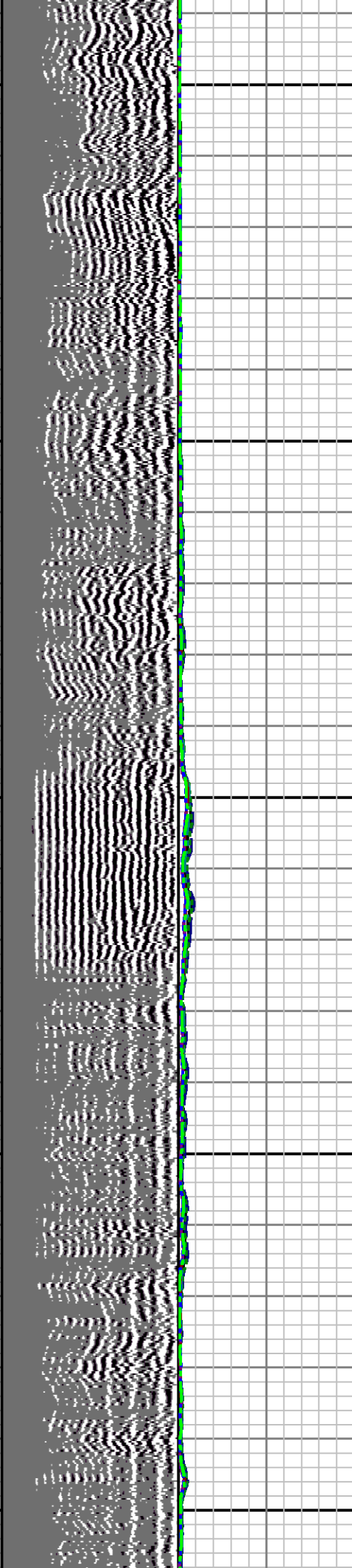


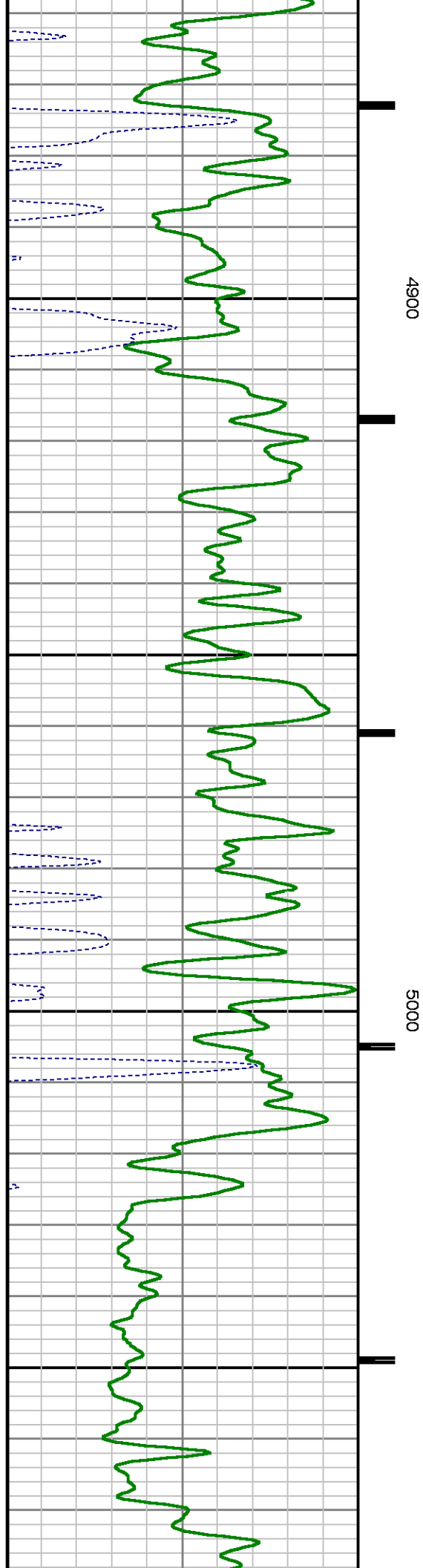
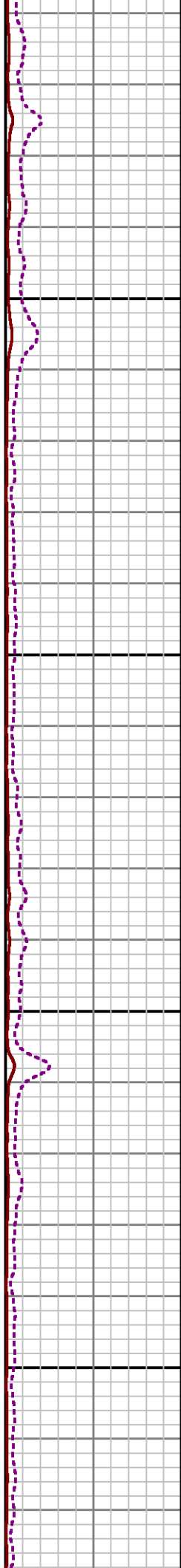
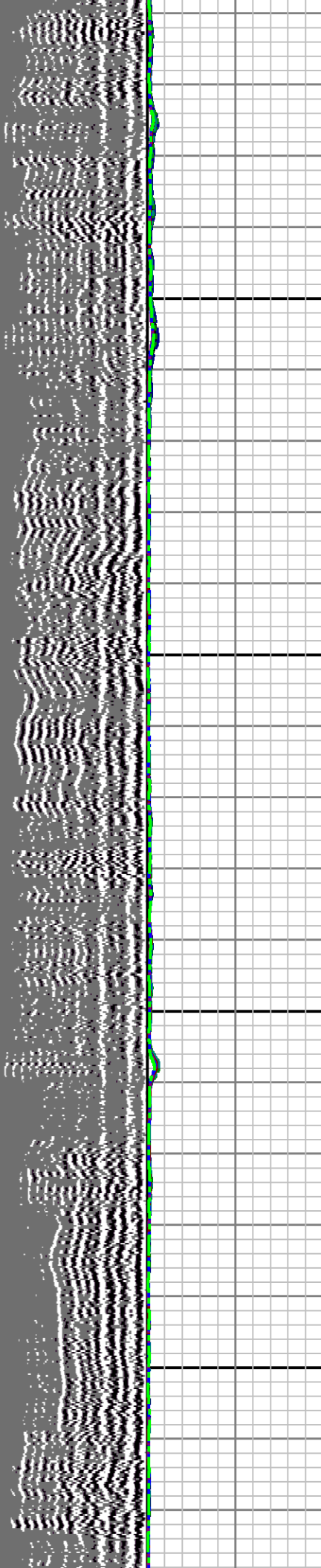


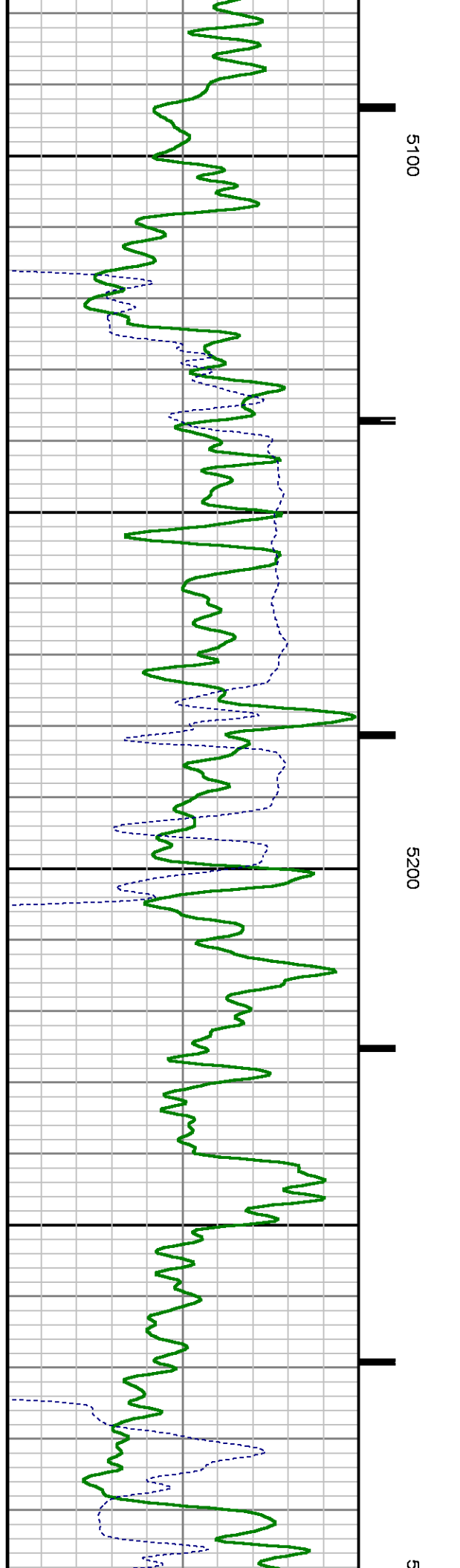
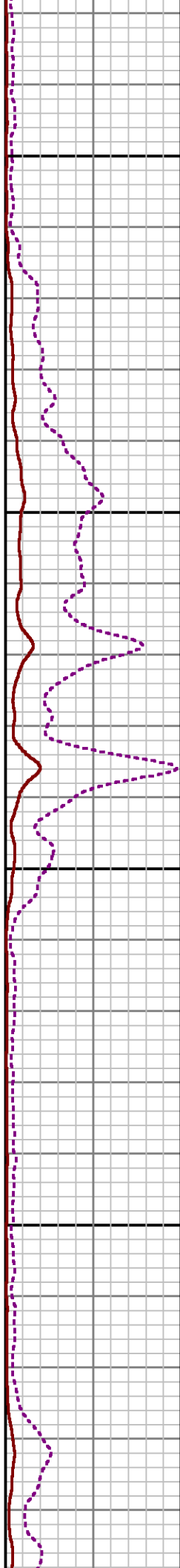
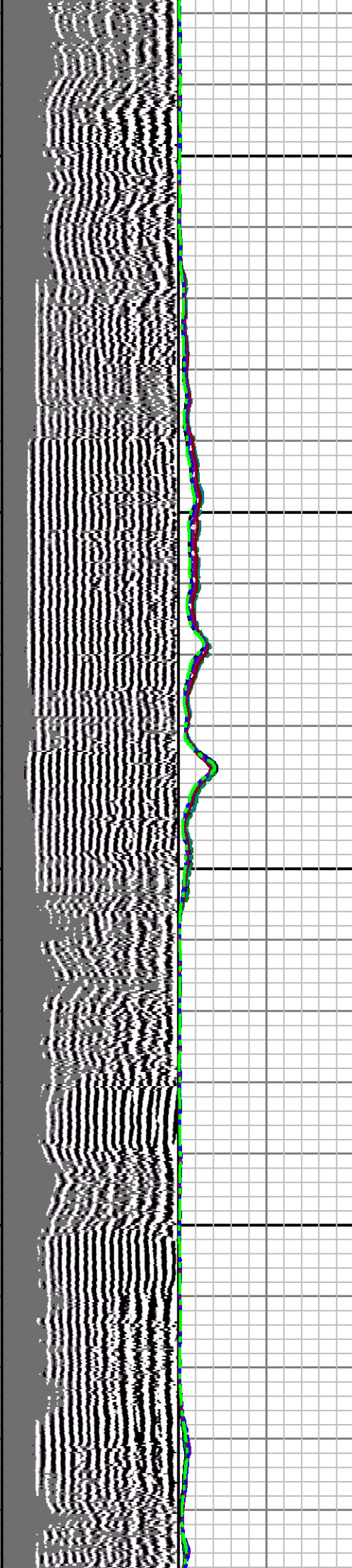
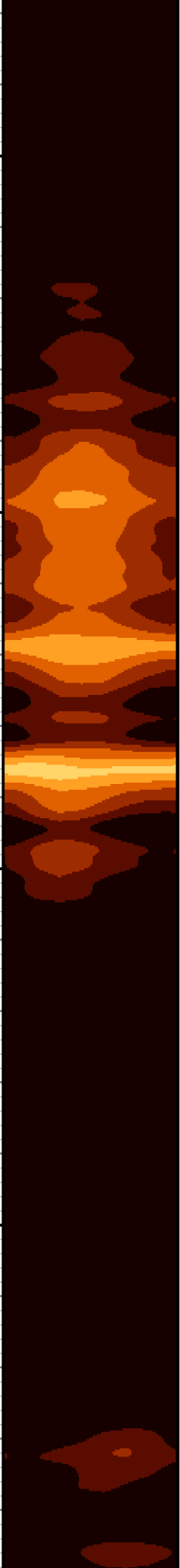


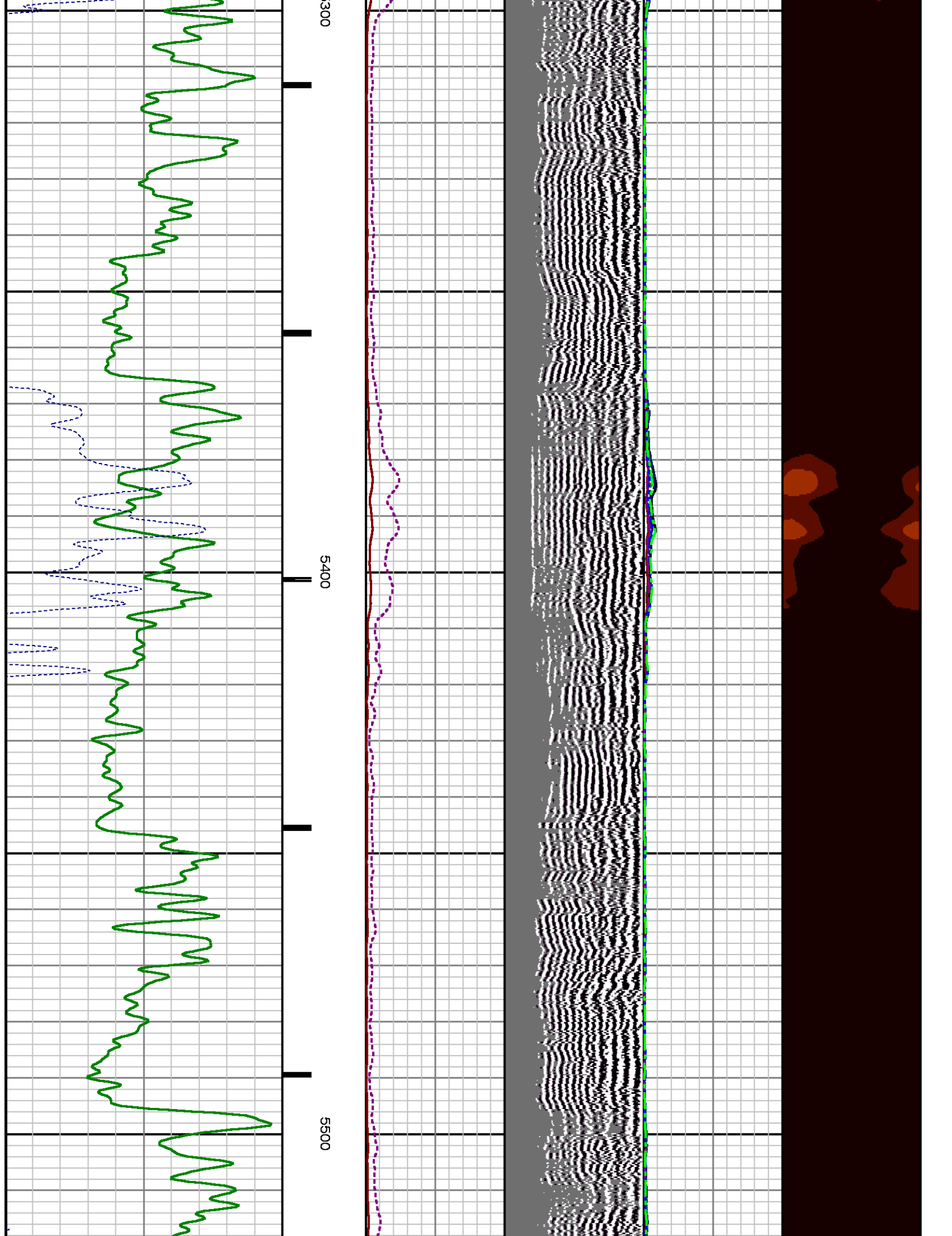


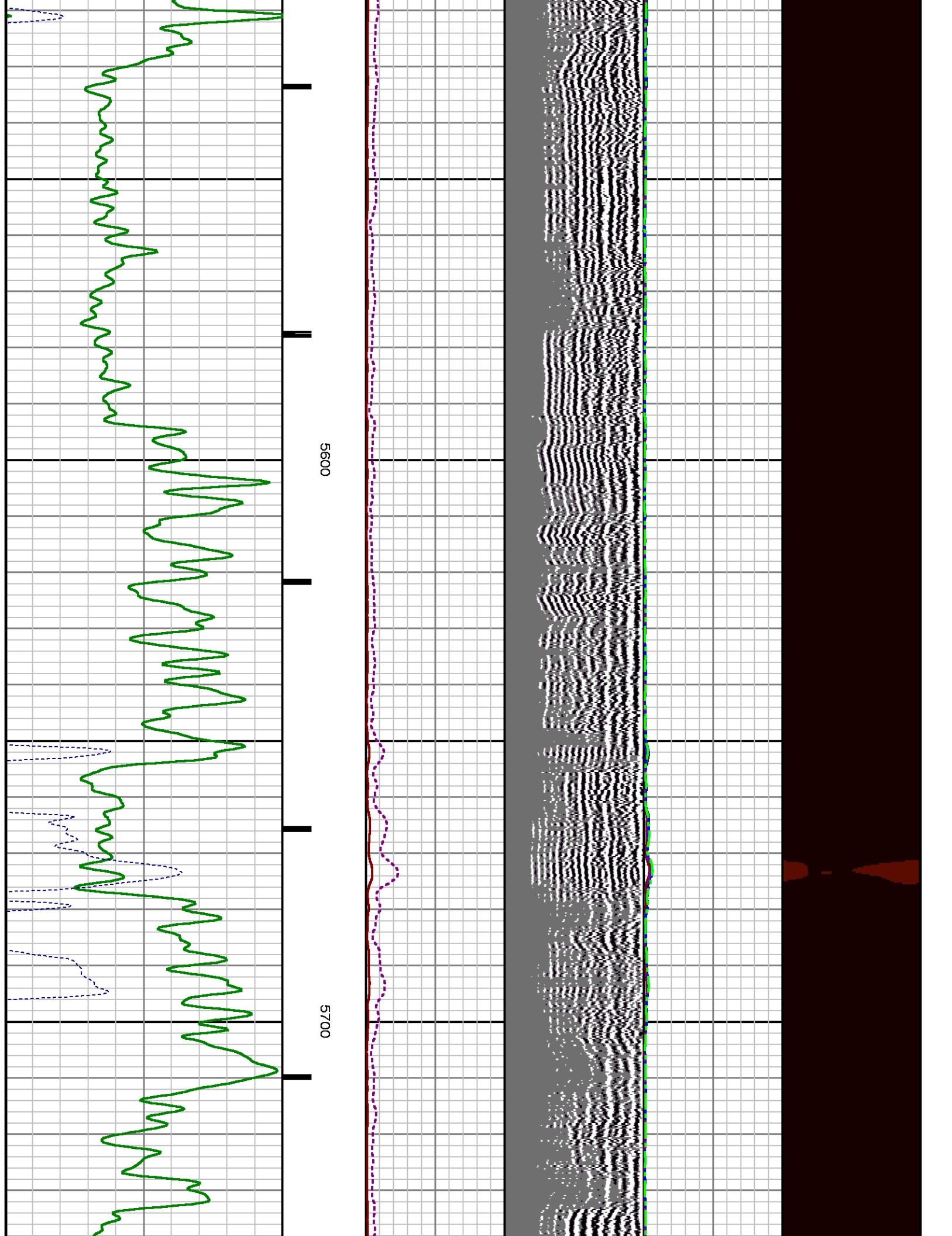


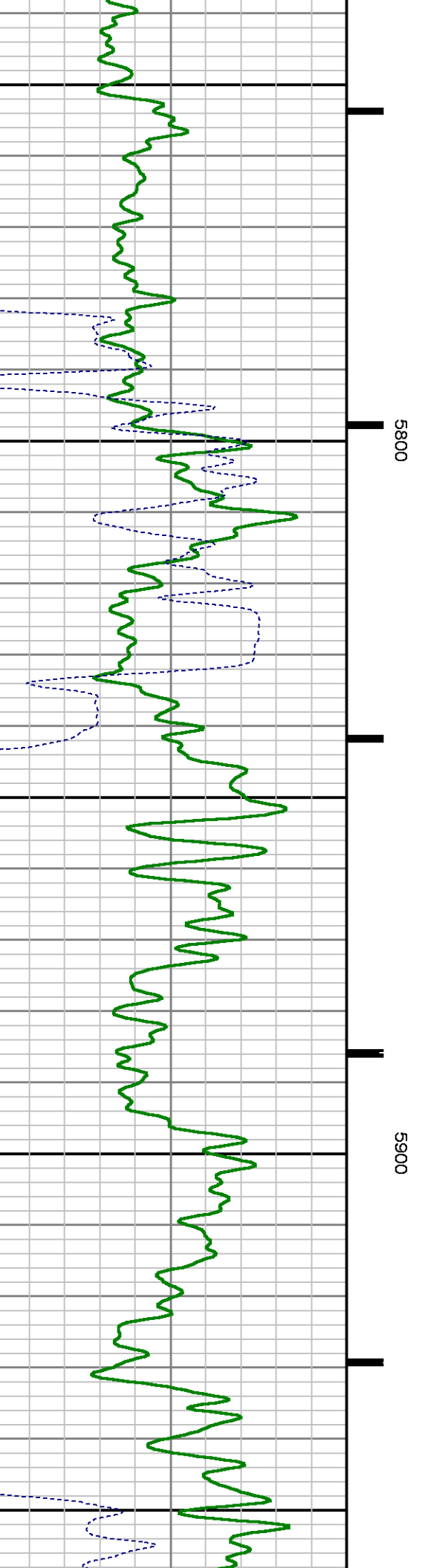
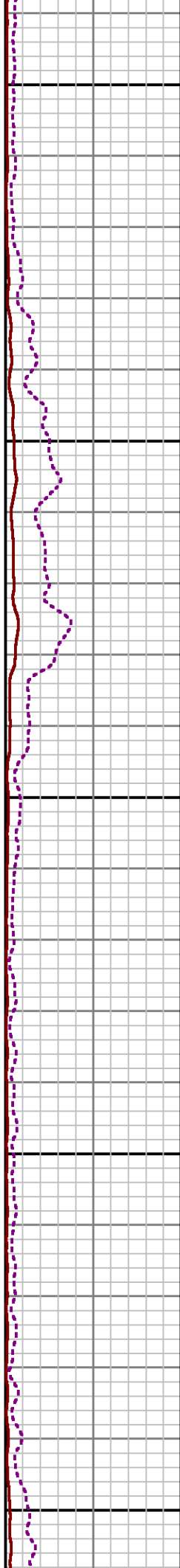
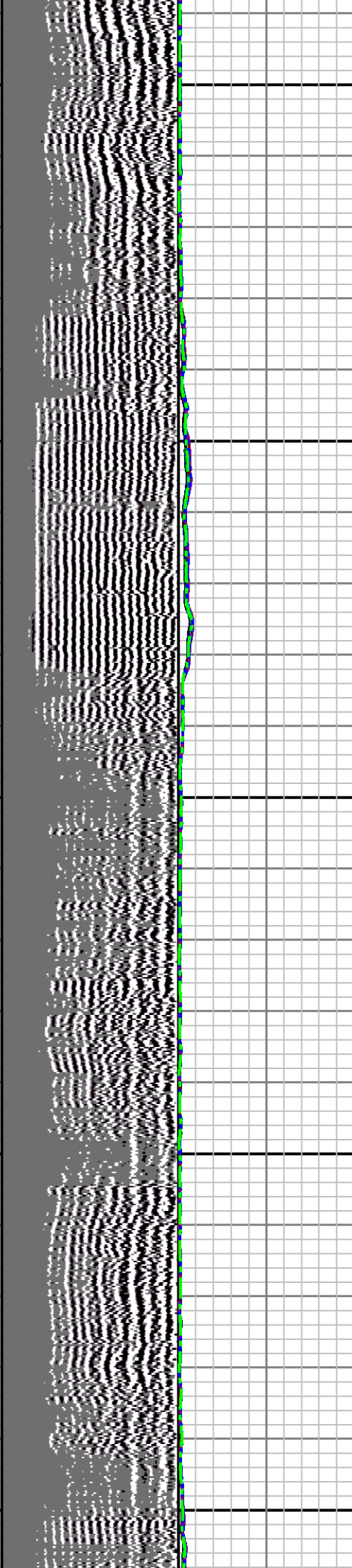


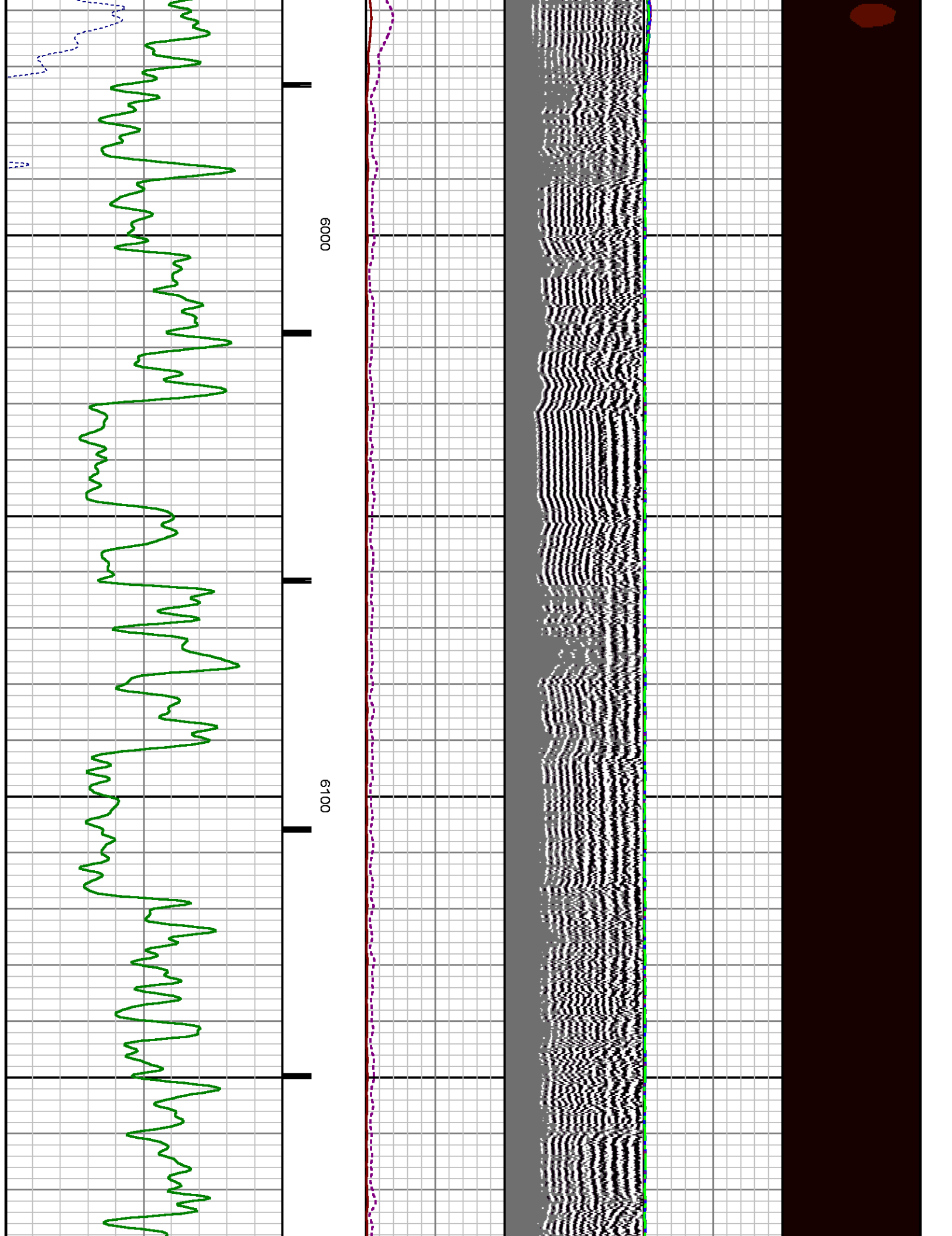




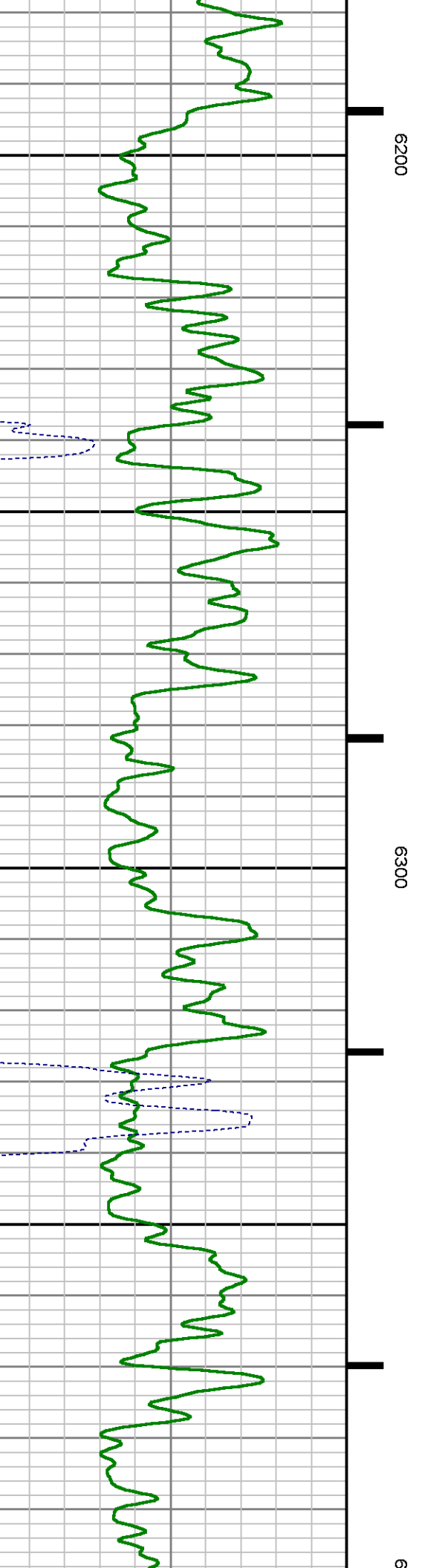
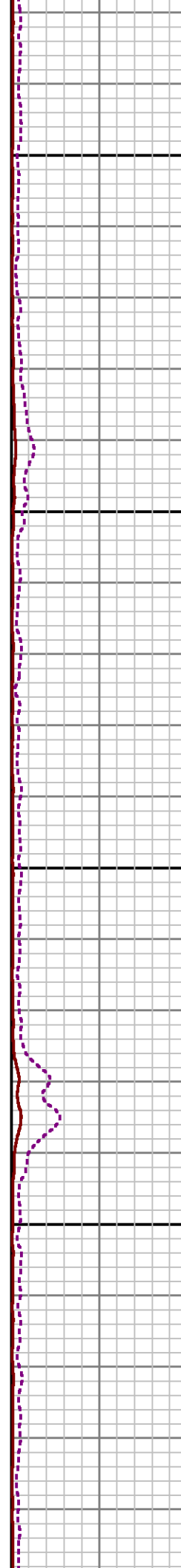
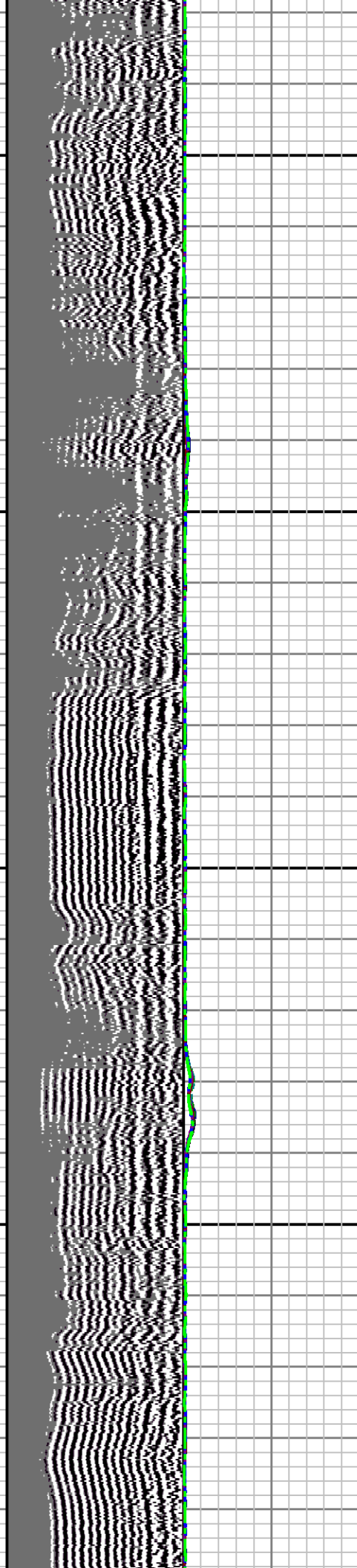


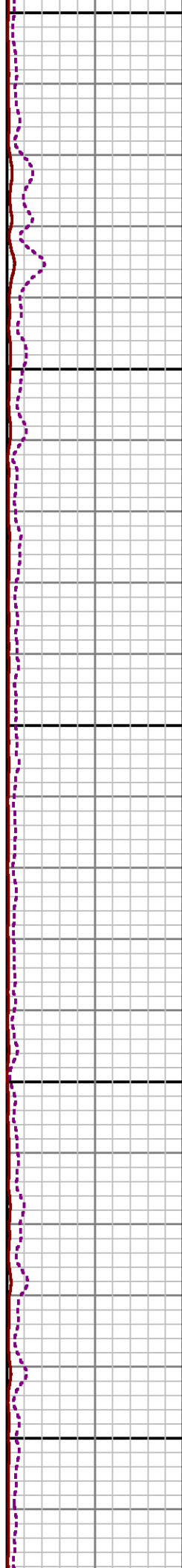
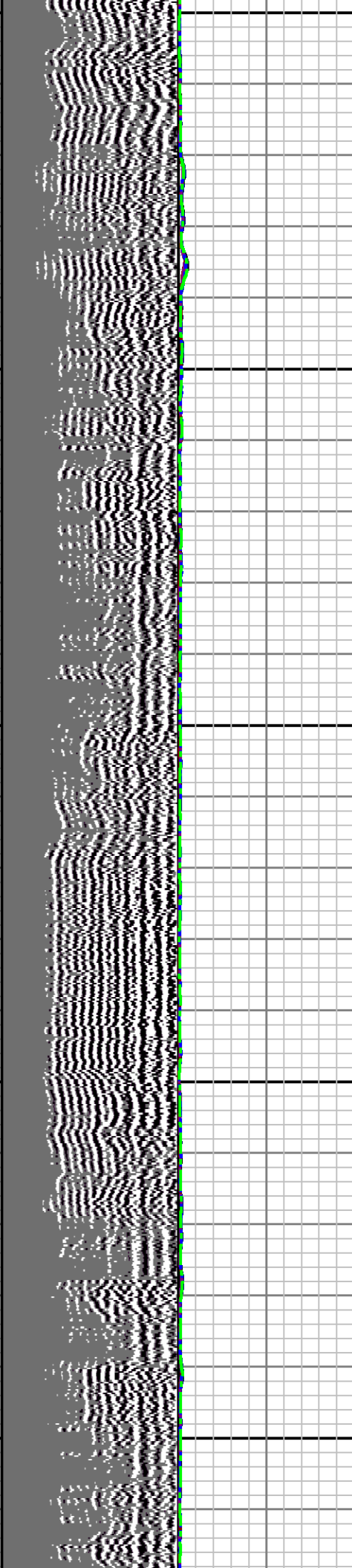






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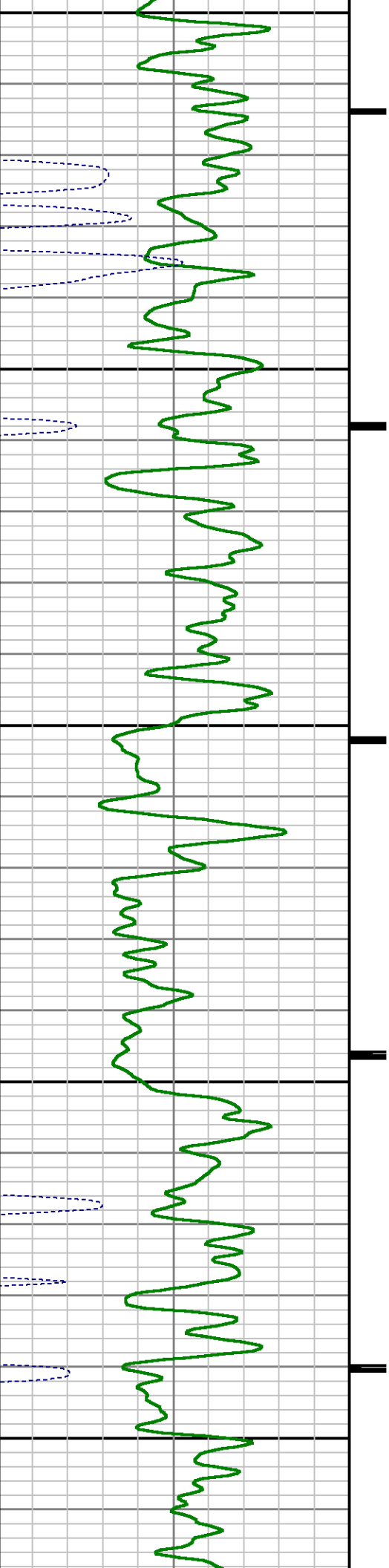


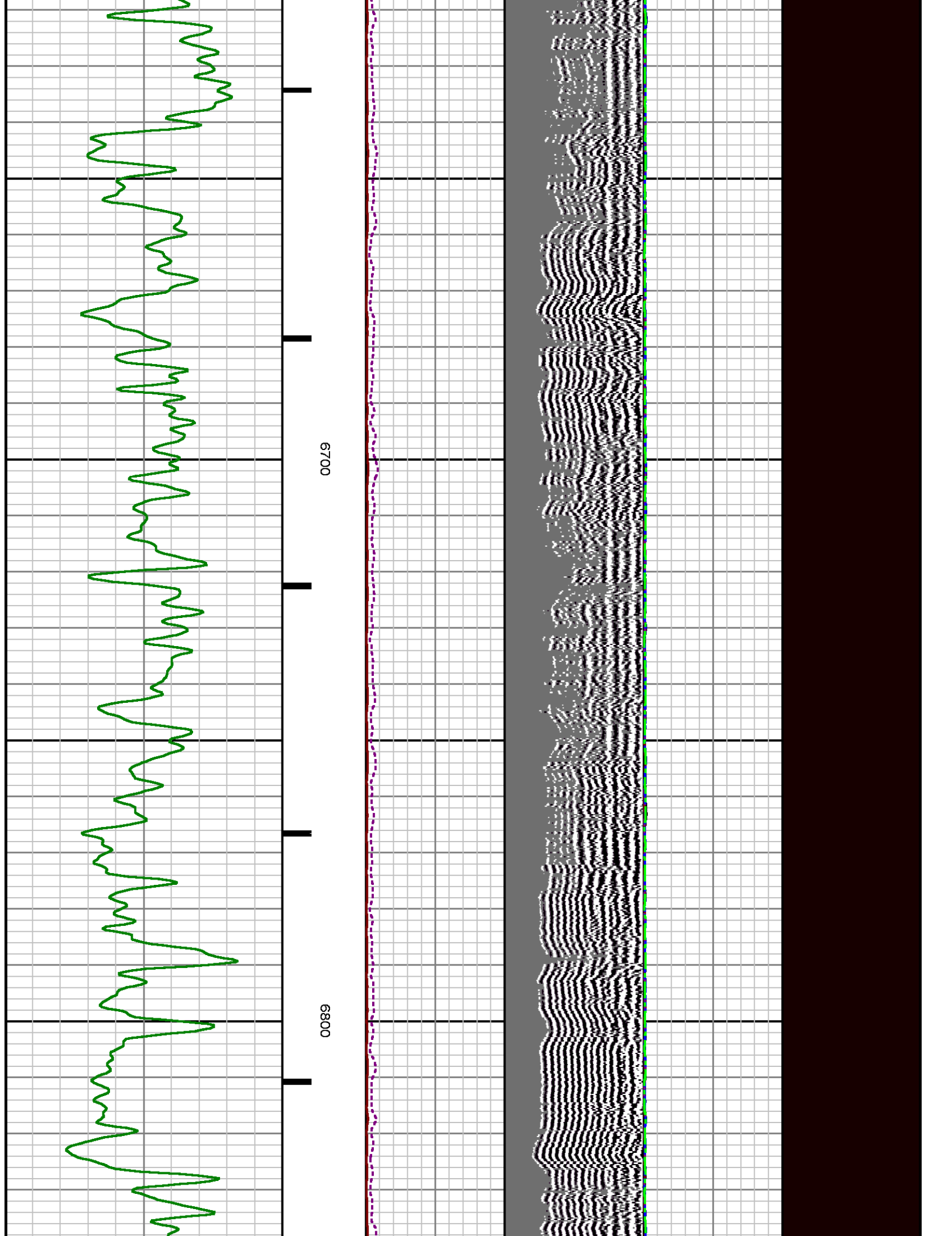


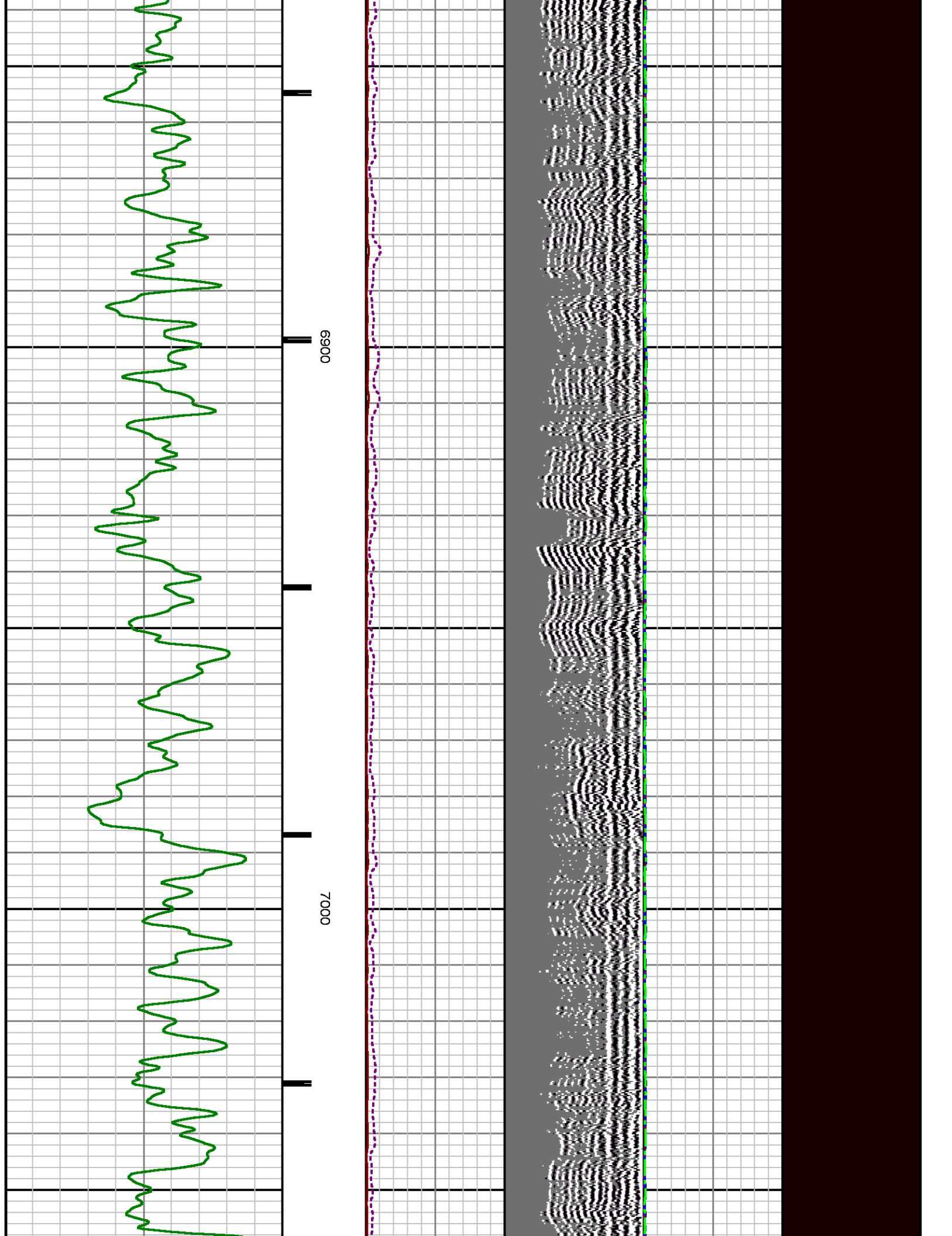
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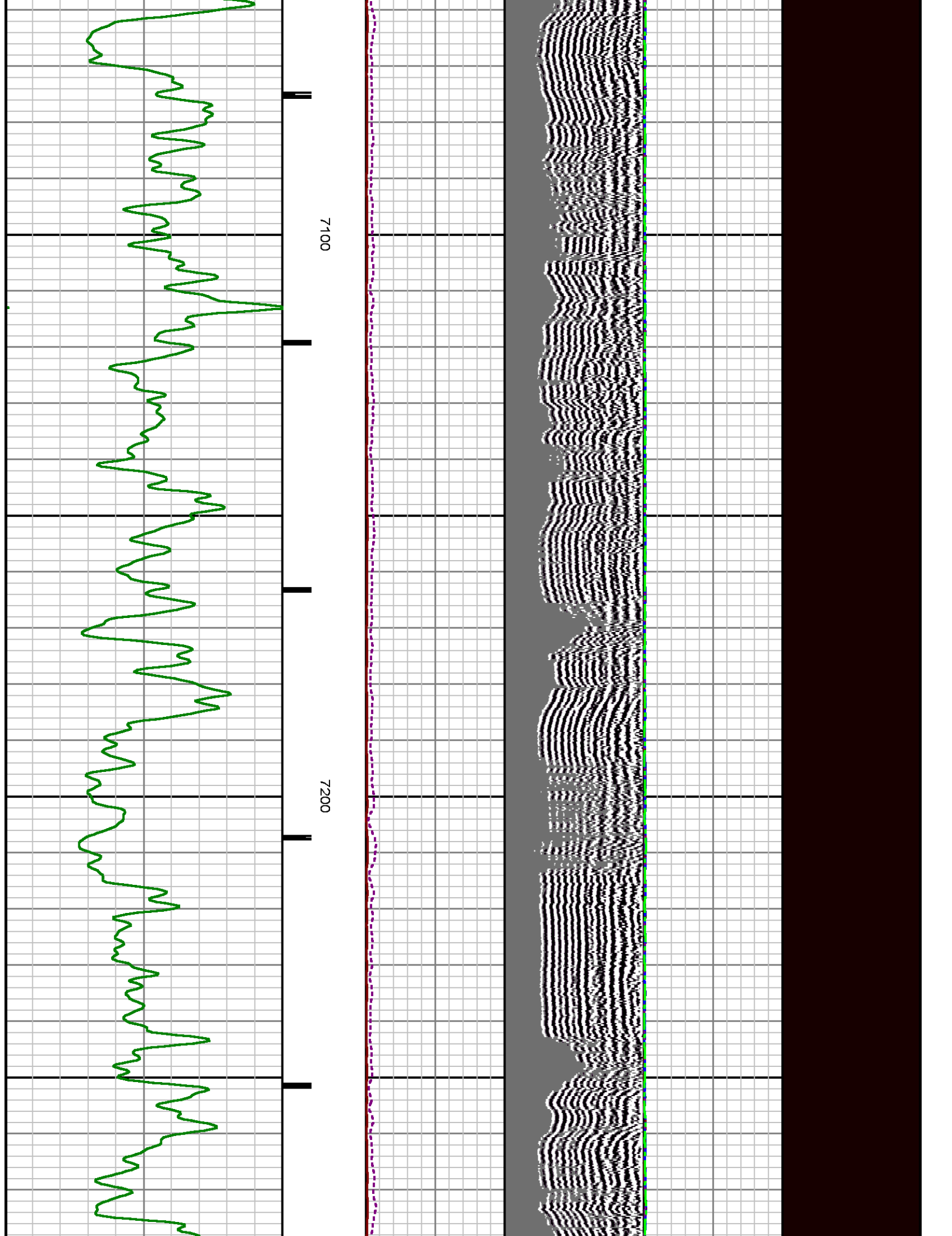
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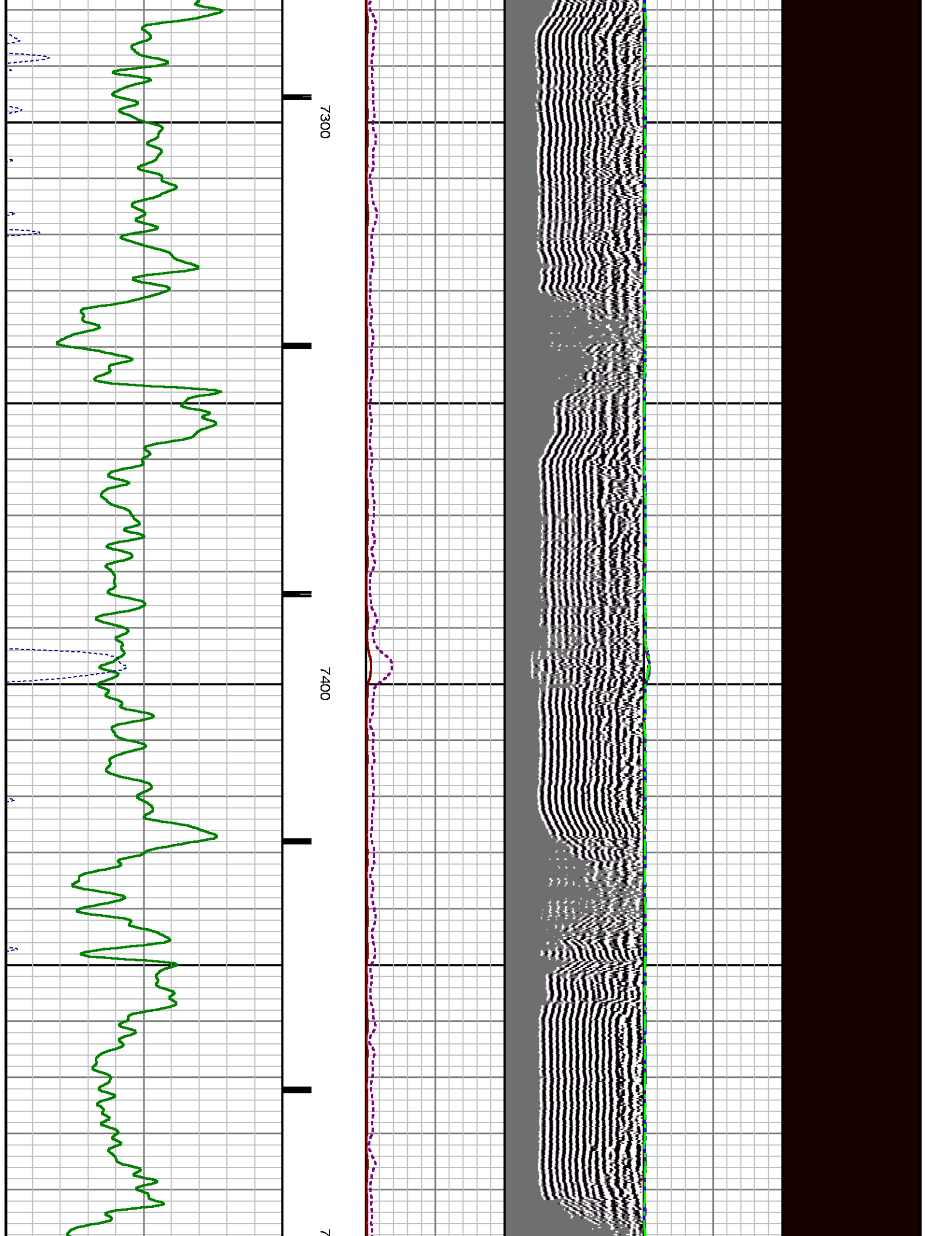
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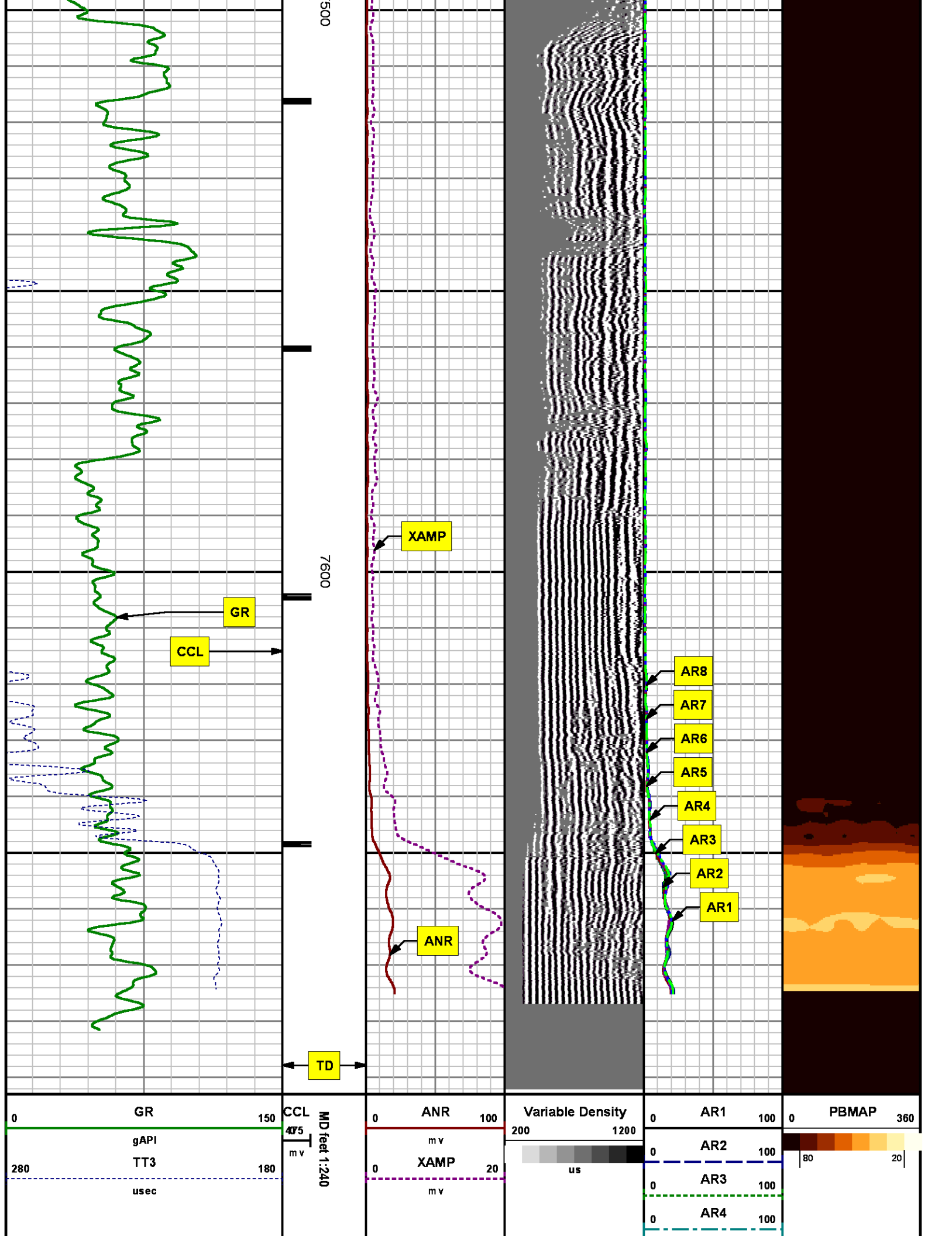












0	AR5	100
0	AR6	100
0	AR7	100
0	AR8	100

REPEAT SECTION
0 PSI

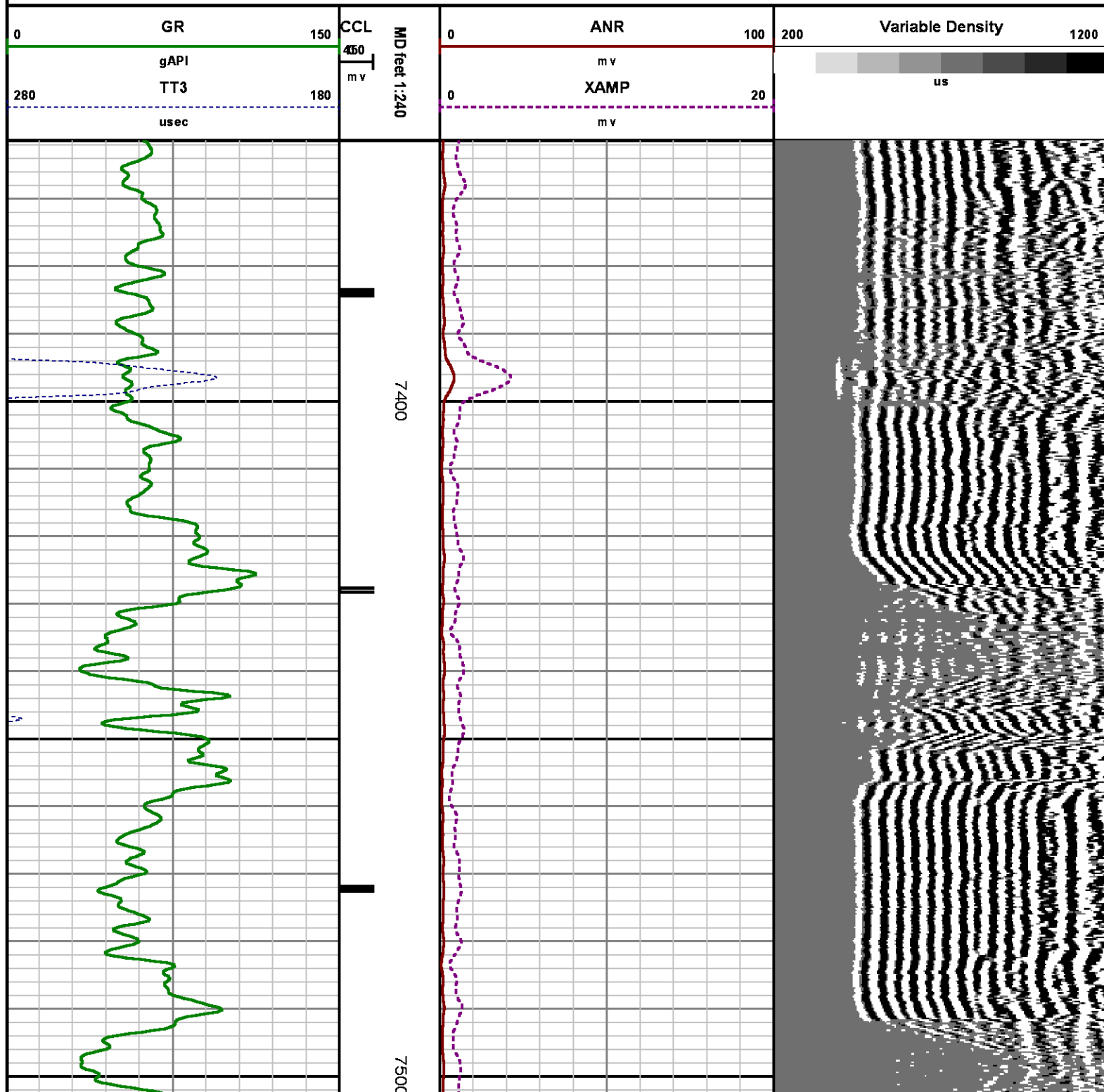
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7361.367	7691.430
RAL	Amp Gate Start Near	195.000	usec	7361.367	7691.430
RAL	Amp Gate Start Radial	195.000	usec	7361.367	7691.430
RAL	Amp Gate Width Far	25.000	usec	7361.367	7691.430
RAL	Amp Gate Width Near	25.000	usec	7361.367	7691.430
RAL	Amp Gate Width Radial	25.000	usec	7361.367	7691.430
RAL	casing od	4.500	inches	7361.367	7691.430
RAL	casing wt	11.600	lbm/ft	7361.367	7691.430
RAL	FB Start Far	291.900	usec	7361.367	7691.430
RAL	FB Start Near	180.000	usec	7361.367	7691.430
RAL	FB Start Radial	180.000	usec	7361.367	7691.430
RAL	FB Thresh Far	10.000	mV	7361.367	7691.430
RAL	FB Thresh Near	4.000	mV	7361.367	7691.430
RAL	FB Thresh Radial	4.000	mV	7361.367	7691.430
RAL	Fluid Travel Time	200.000	usec/ft	7361.367	7691.430

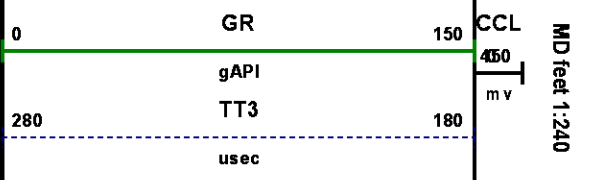
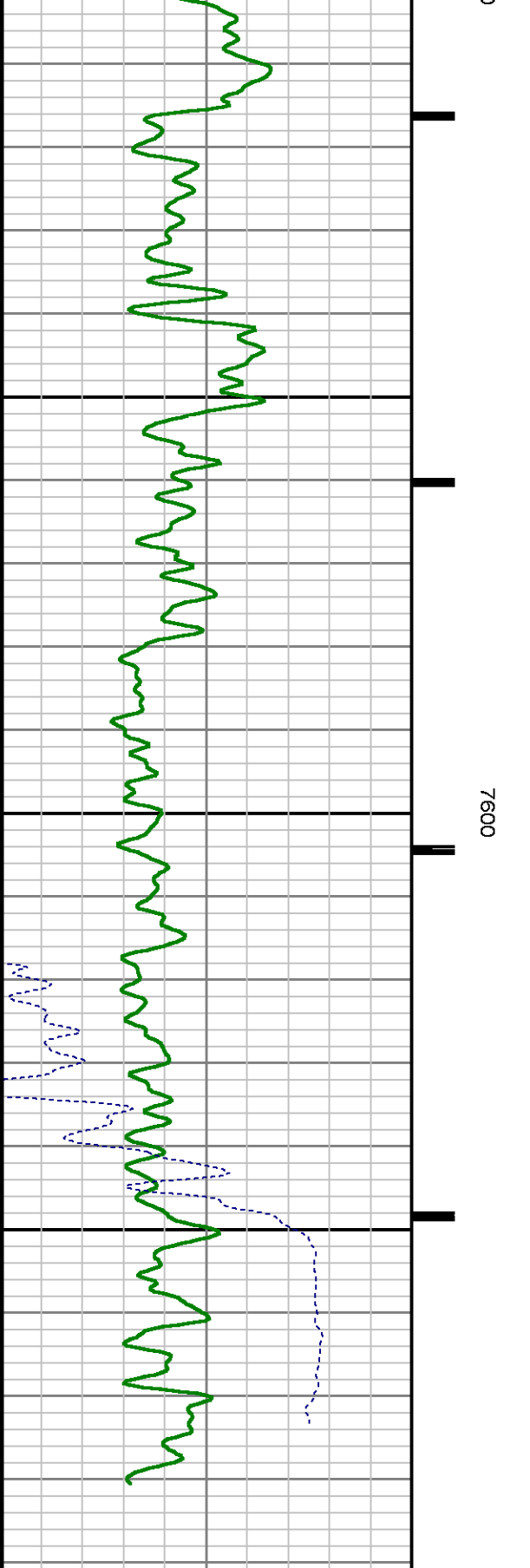
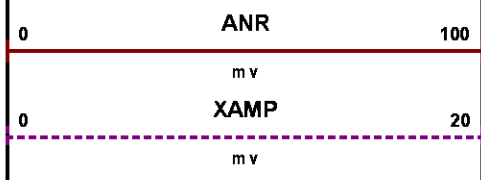
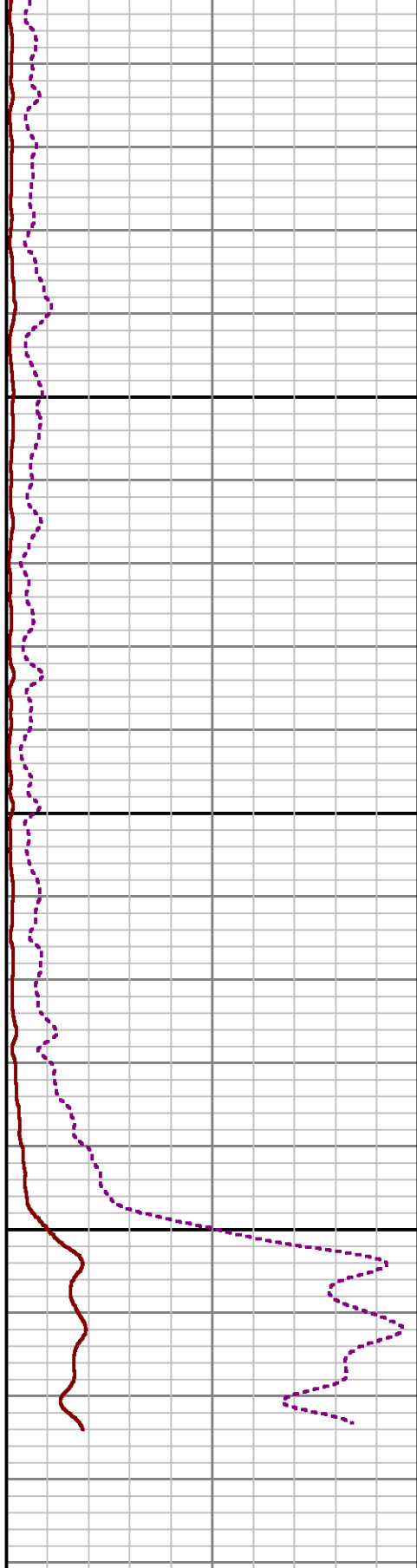
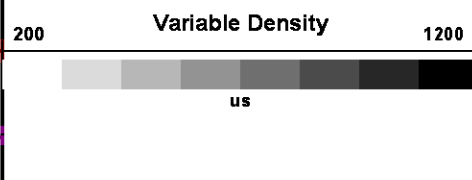
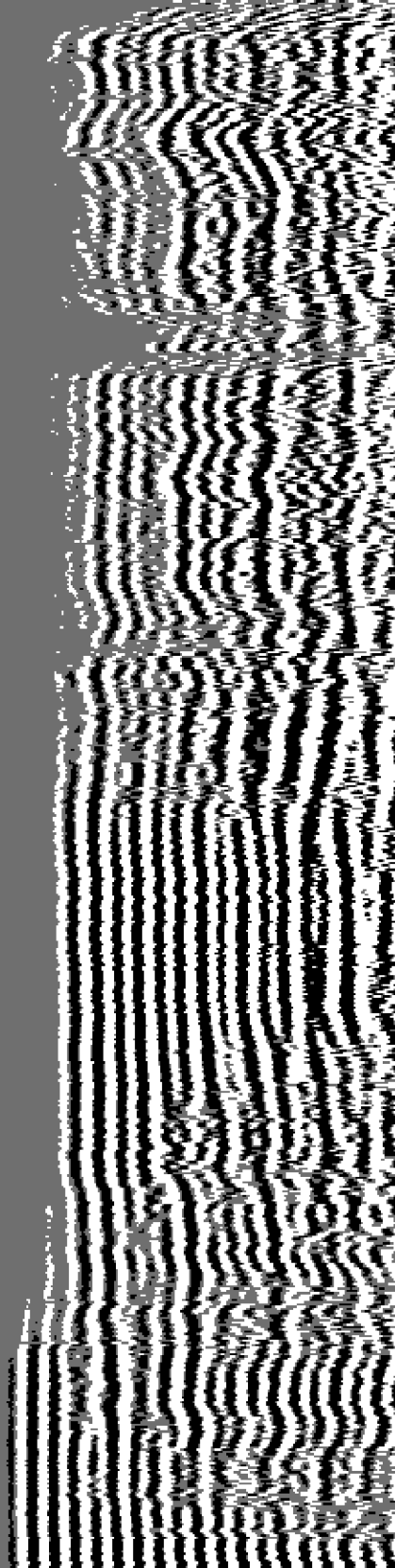
DEPTH OFFSETS
(for Acquired Curves)

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 : WPX ENERGY PA 424-2
File Name : d:\welldata\wpx\pa 424-2\424ral\repeat.xtf
Mode : PlotMgr 5.4.504
Interval : 7361.43 - 7691.43 feet UP
Created : 4/30/2014 7:49:35 AM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496A29_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Apr 29 12:08:57 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: A29

Tool Delay [usec] -51.00 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	0.208	100.00	0.31
3 Ft. Receiver	217	216	30	166	25	1.510	100.00	0.31
5 Ft. Receiver	327	332	30	282	25	2.840	150.00	0.35
Radial #1	217	216	30	166	25	1.090	100.00	0.31
Radial #2	218	216	30	166	25	0.741	100.00	0.31
Radial #3	218	216	30	166	25	0.881	100.00	0.31
Radial #4	218	216	30	166	25	1.058	100.00	0.31
Radial #5	217	216	30	166	25	1.388	100.00	0.31
Radial #6	216	216	30	166	25	1.409	100.00	0.31
Radial #7	216	216	30	166	25	0.685	100.00	0.30
Radial #8	218	216	30	166	25	0.793	100.00	0.30

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496A29 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Apr 29 12:11:43 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: A29

Tool Delay [usec] -51.00 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	0.003	0.000	1.00	100.000
3 Ft. Receiver	195	25	2.373			
5 Ft. Receiver	305	25	3.229			
Radial #1	195	25	1.608			
Radial #2	195	25	1.574			
Radial #3	195	25	1.874			

Radial #4	195	25	1.903
Radial #5	195	25	2.155
Radial #6	195	25	2.219
Radial #7	195	25	1.846
Radial #8	195	25	1.836

GAMMA RAY

Calibration File: C:\case\calver\GR\456A3.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 03 13:37:28 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: A3

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	76.84	356.71	0.661	50.80	235.80	185.00

Verification File: C:\case\calver\GR\456A3.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Apr 03 13:38:35 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: A3

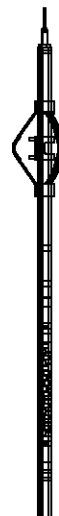
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	80.98	351.78	0.661	53.53	232.54	179.01

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



21.81'

XMIT 15.62'

NEAR RCVR 12.54'

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



FAR RCVR	10.62'
CCL	8.92'
GR	7.06'
NEU	1.67'
	0.00'

Total Length: 21.81'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas

CASE

Company	WPX ENERGY		
Well	WPX ENERGY PA 424-2		
Field	PARACHUTE		
County	GARFIELD	State	COLORADO

File No:	CH085273
API No:	05045221460000

Location				Elevations	
SHL: 2008' FSL & 1571' FWL				KB	5846 ft
BHL: 521' FSL & 1942' FWL (SESW)				DF	
				GL	5821 ft
SEC	2	TWP	7S	RGE	95W

2 7S 95W
GV 86-2 PAD
AZTEC 1000