



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: WPX ENERGY

CH08B402 C&C ENERGY GM 311-13

API No: GRAND VALLEY

05045225670000 GARFIELD State COLORADO

13 75 96W

GM 24-12 PAD

H&P 318

Location

SHL: 285' FSL & 980' FWL (SEC 12)

BHT: 603' FNL & 794' FWL (NWNW SEC 13)

Other Services

RPM

SEC 13 TWP 7S RGE 96W

GL Elevation 5141 ft

KB 24 ft Above P. D.

KELLY BUSHING

Elevations

KB 5165 ft

DF

GL 5141 ft

Date 22/JUL/14

Run ONE

Service Order US08B402J

Depth Driller 6034 ft

Depth Logger 5986 ft

Bottom Logged Interval 5976 ft

Top Logged Interval 24 ft

Time Started 1530

Time Finished 1800

Operator Rig Time 2.5 HRS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 58 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 204 degF

Reference Log NONE

Reference Log Date NA

Equipment No. 4271 Location GRAND UCT

Recorded By FLOYD RENEAU

Witnessed By JEFF BRADY

- 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	24 ft	1277 ft
8.75 in	1277 ft	6034 ft

Casing Record

Size	Weight	Grade	From	To
9.625 in			24 ft	1277 ft
4.5 in	11.6 lbm/ft	I-80	24 ft	6034 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 5 feet.
Logged with zero PSI at wellhead.

BHT = 204°F

SJ = 2806'-2828'

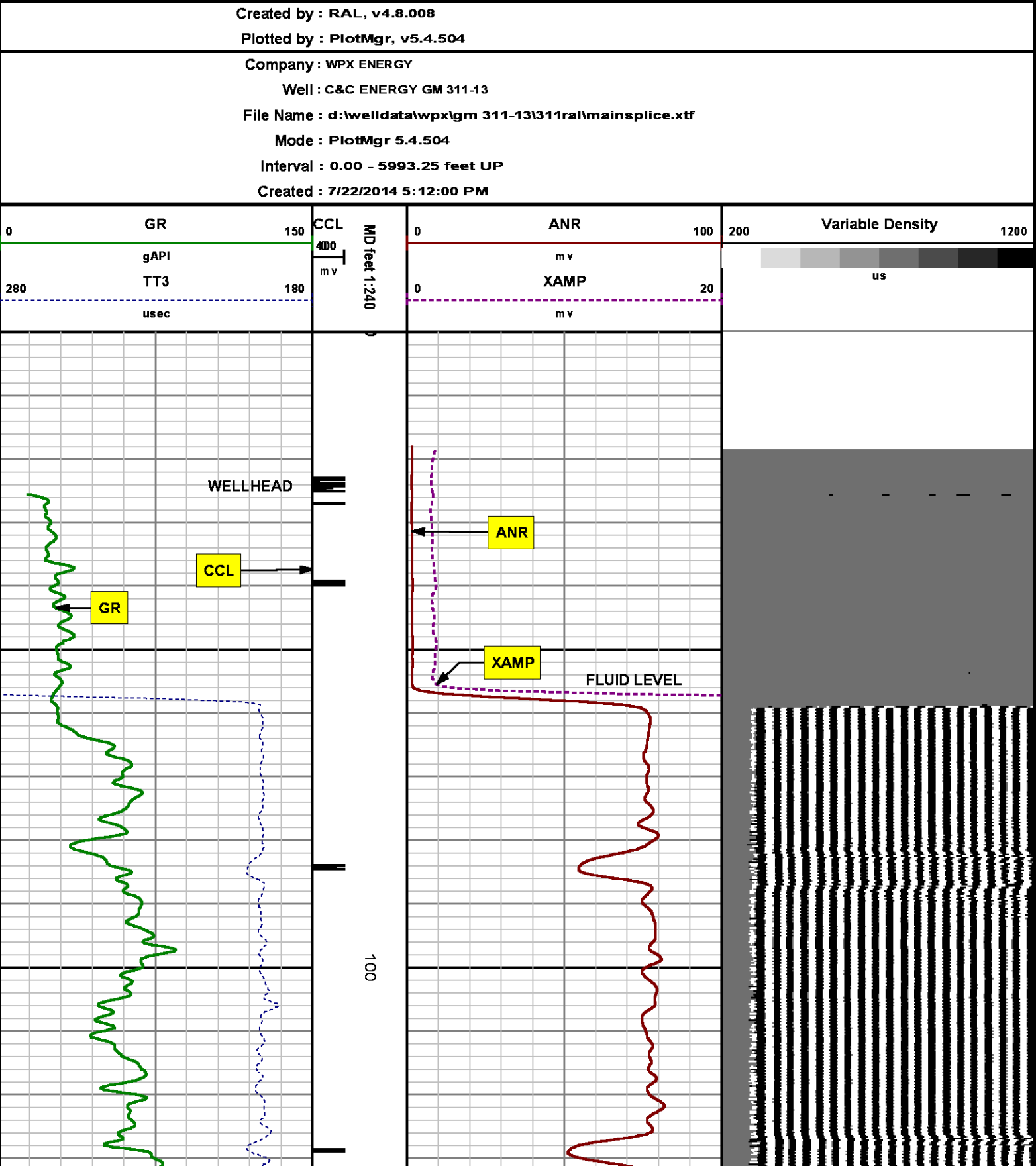
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Run	Trip	Tool	Series Number	Serial Number	Position
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1	1	GR/CCL	2459XA	10124121	CENT

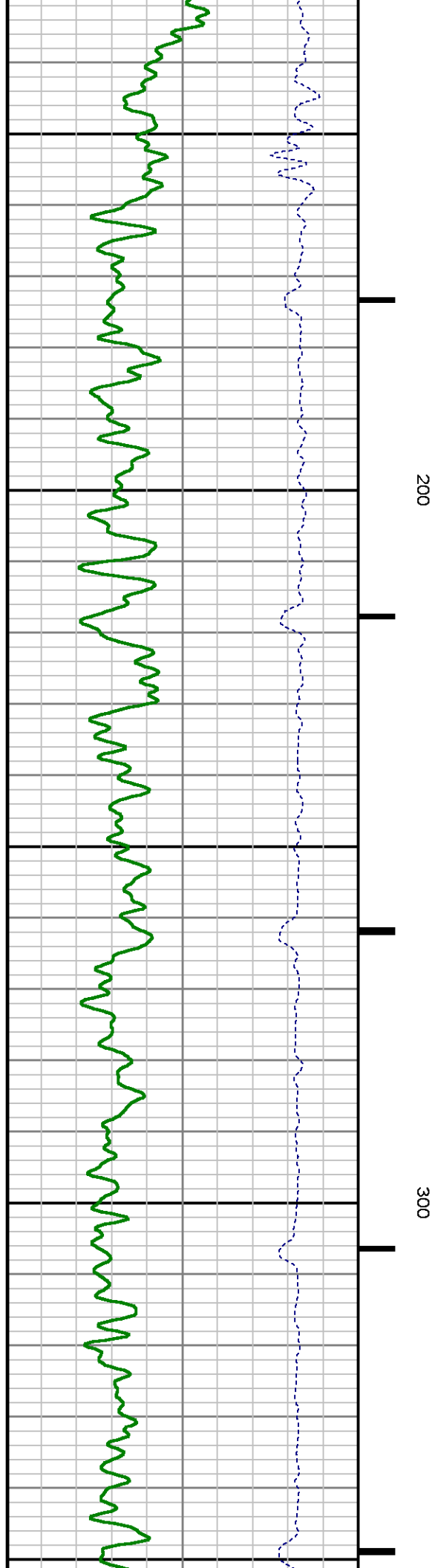
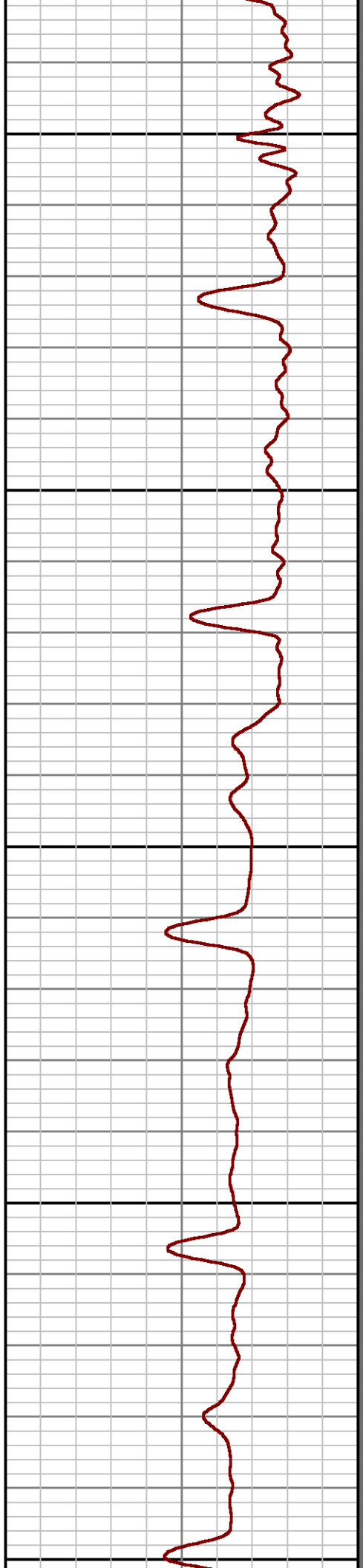
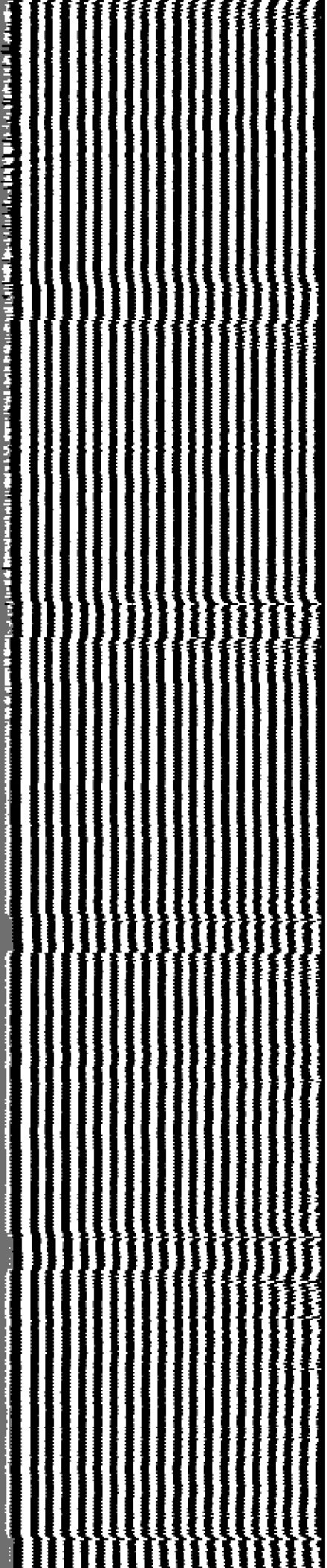
PRIMARY PRESENTATION
0 PSI

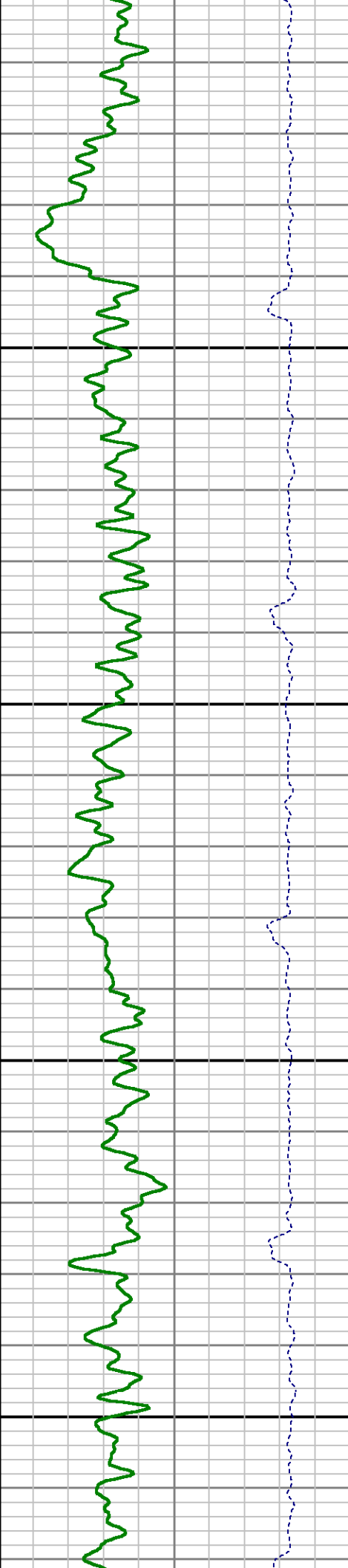
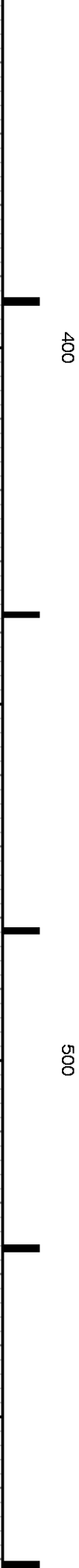
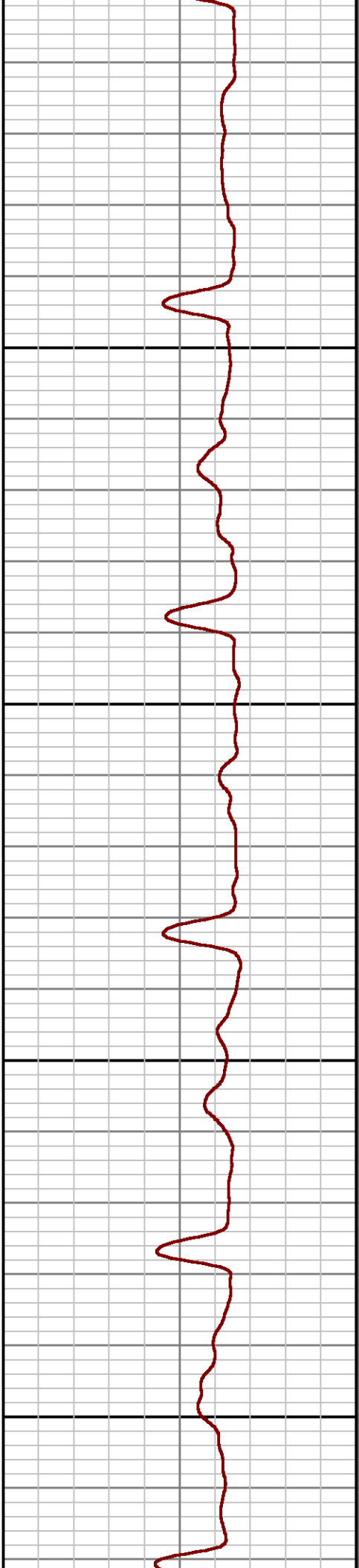
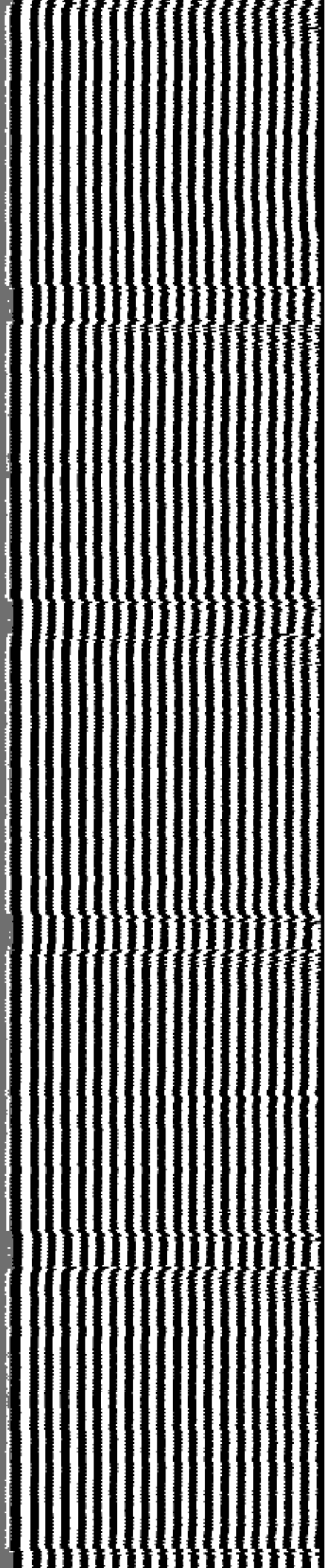
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RAL	Amp Gate Start Far	305.000	usec	29.556	1254.000
RAL	Amp Gate Start Near	195.000	usec	29.556	1254.000
RAL	Amp Gate Start Radial	195.000	usec	29.556	1254.000
RAL	Amp Gate Width Far	25.000	usec	29.556	1254.000
RAL	Amp Gate Width Near	25.000	usec	29.556	1254.000
RAL	Amp Gate Width Radial	25.000	usec	29.556	1254.000
RAL	casing od	4.500	inches	29.556	1254.000
RAL	casing wt	11.600	lbm/ft	29.556	1254.000
RAL	FB Start Far	291.900	usec	29.556	1254.000
RAL	FB Start Near	180.000	usec	29.556	1254.000
RAL	FB Start Radial	180.000	usec	29.556	1254.000
RAL	FB Thresh Far	10.000	mv	29.556	1254.000
RAL	FB Thresh Near	4.000	mv	29.556	1254.000
RAL	FB Thresh Radial	4.000	mv	29.556	1254.000
RAL	Fluid Travel Time	200.000	usec/ft	29.556	1253.900

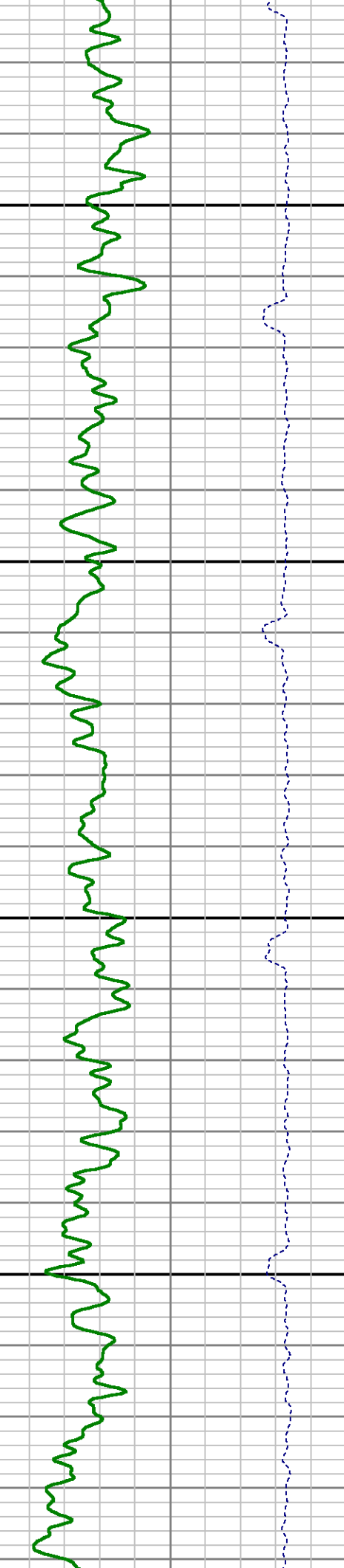
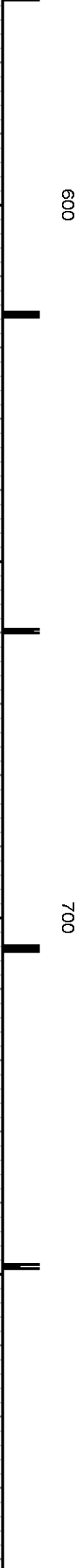
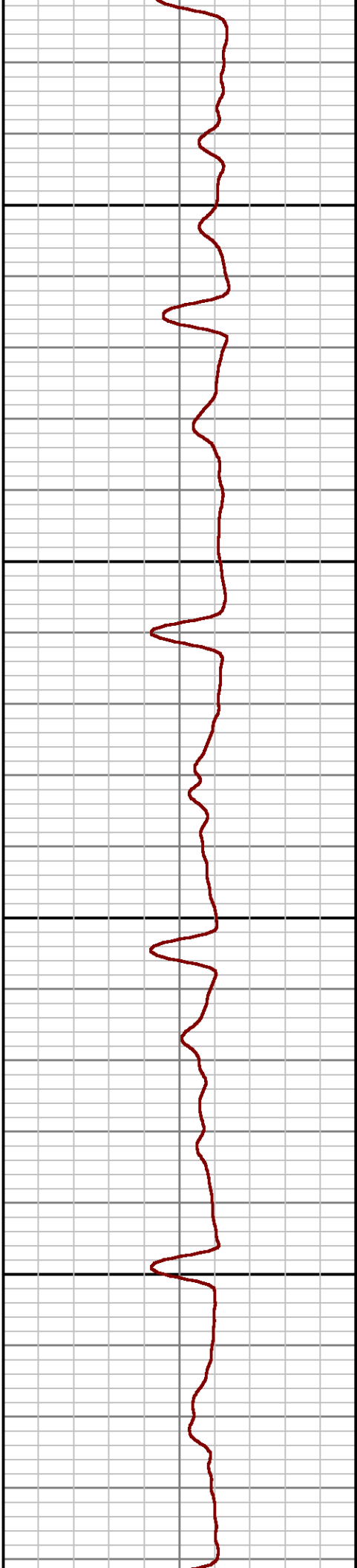
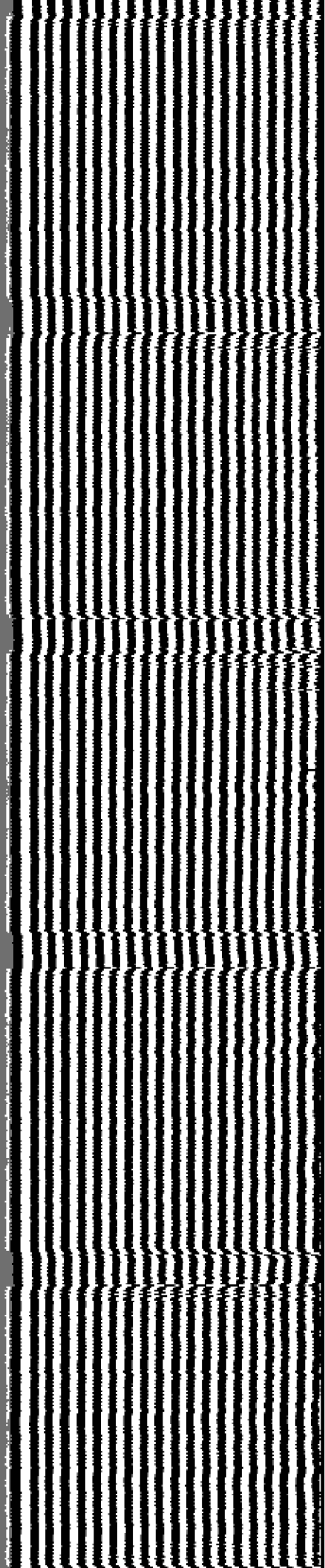
DEPTH OFFSETS							
(for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

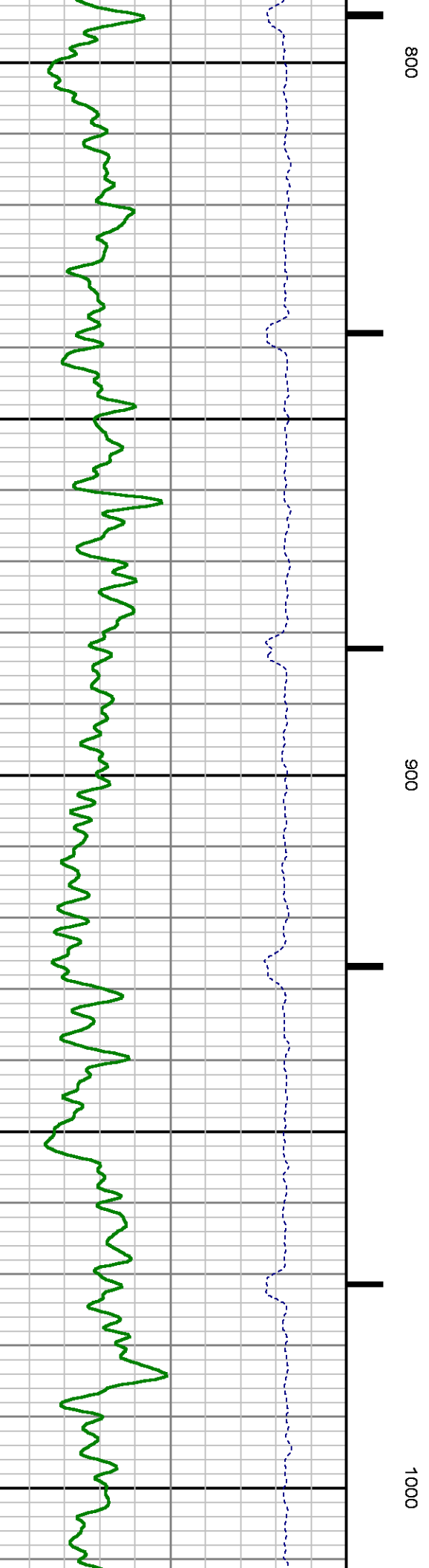
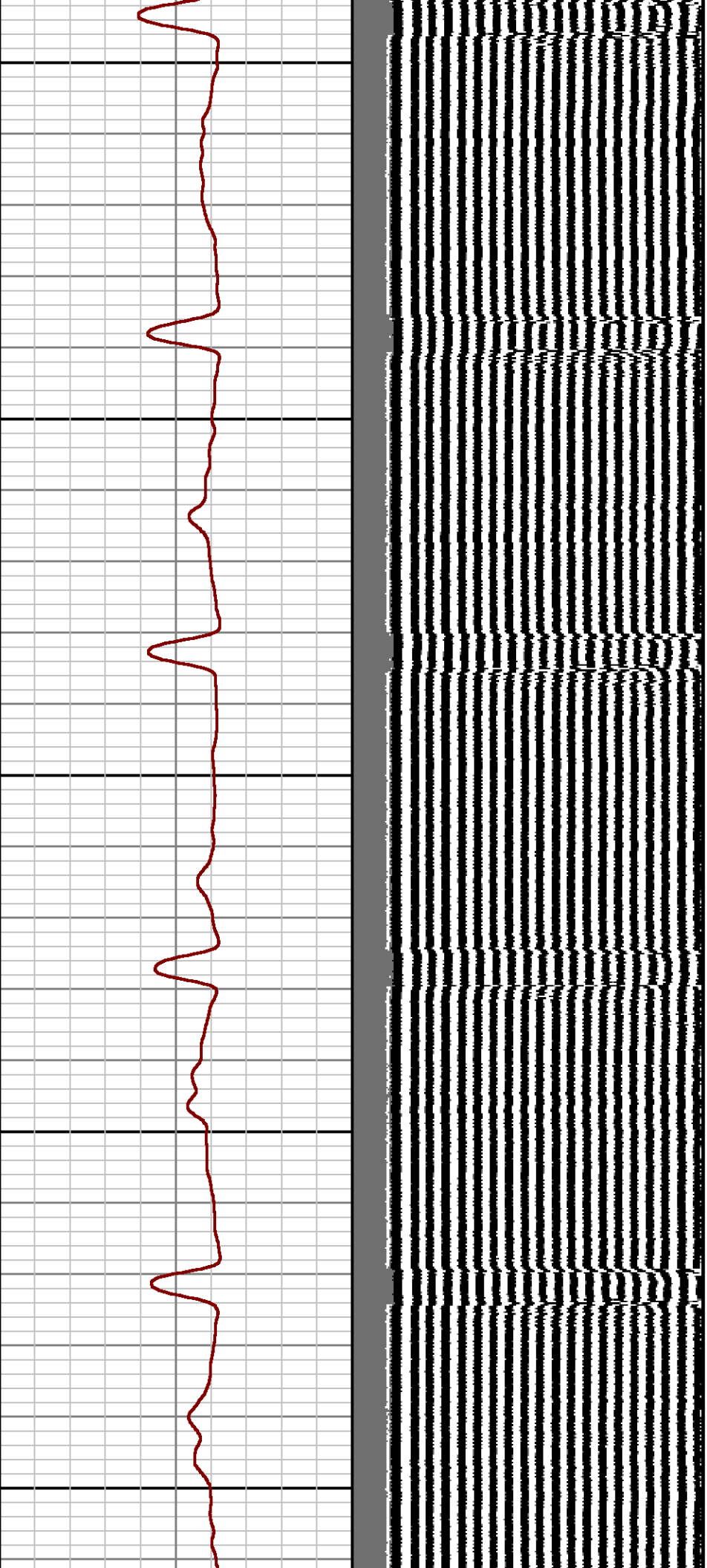
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		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
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2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

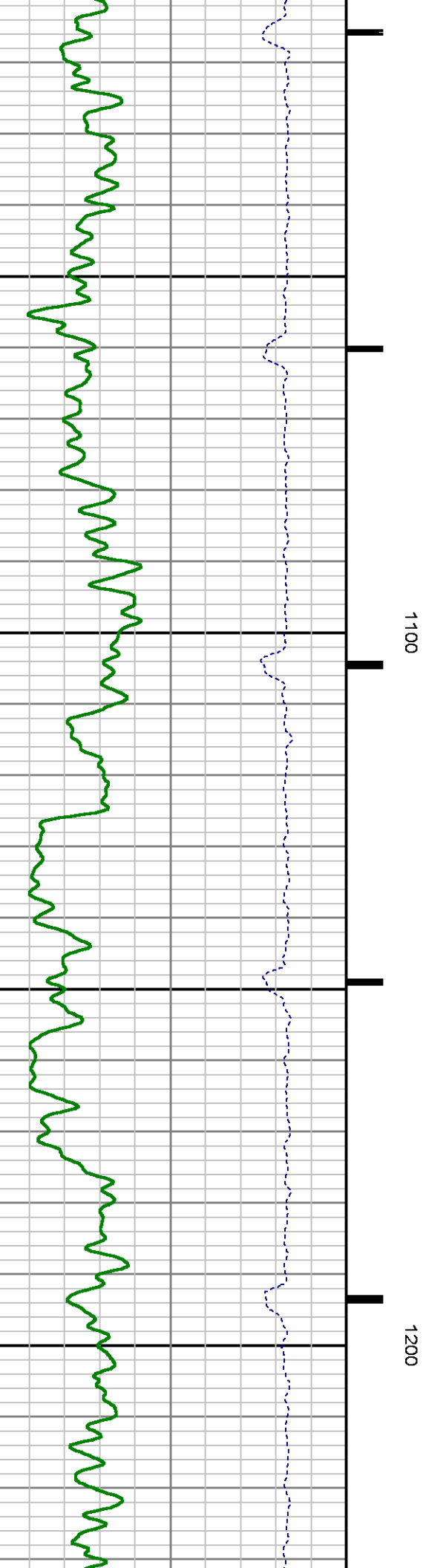
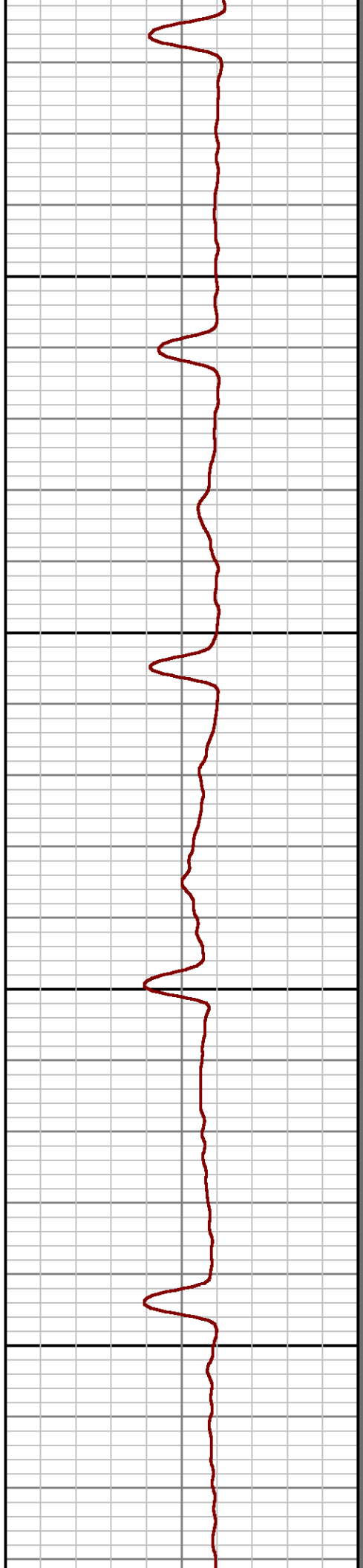
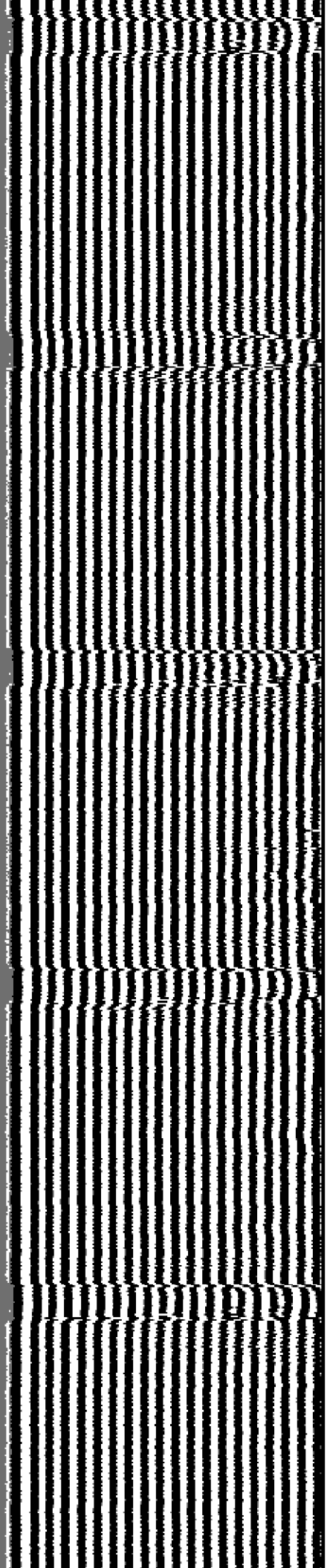


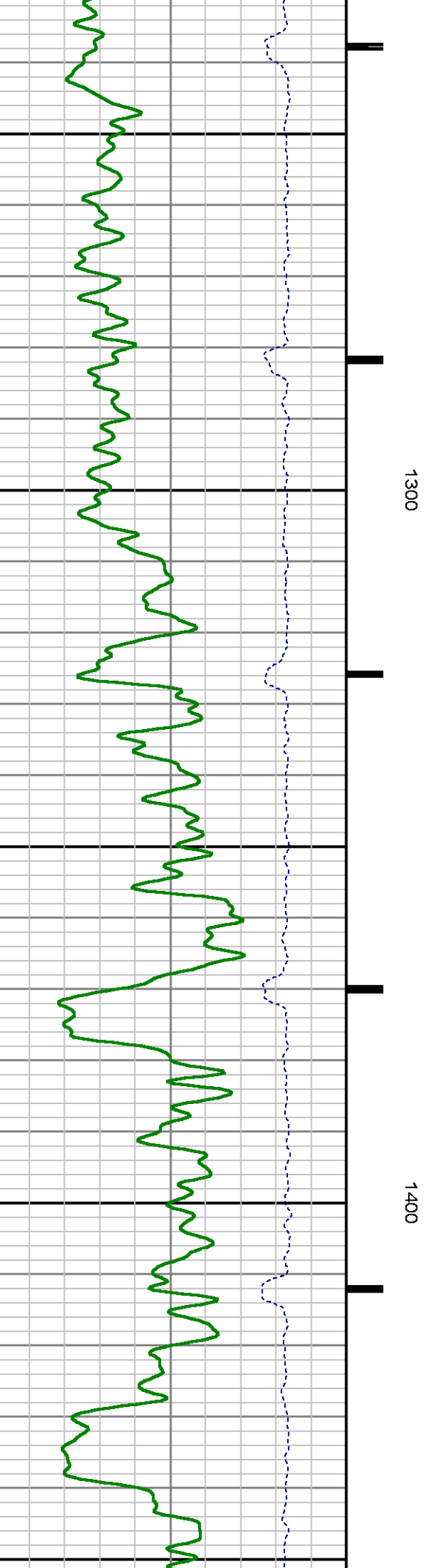
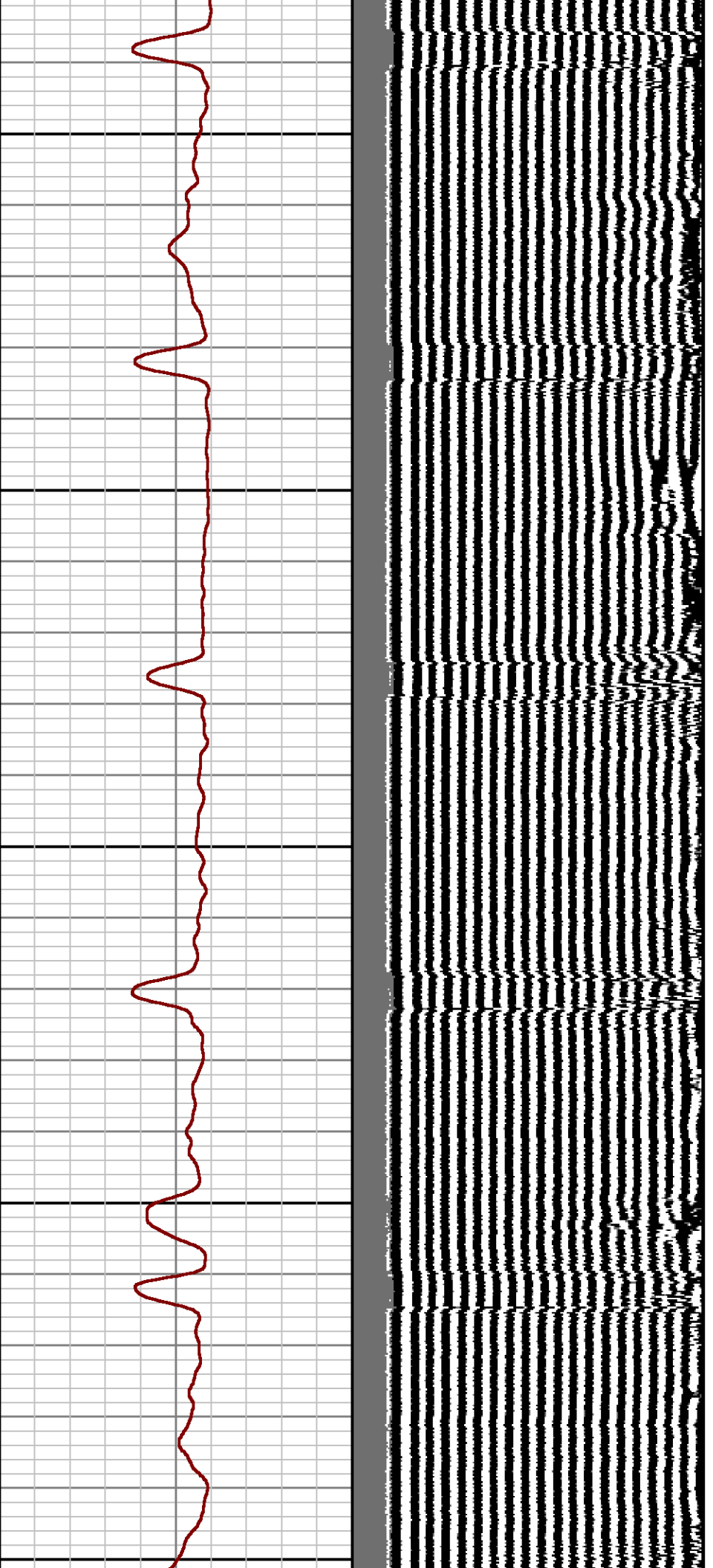


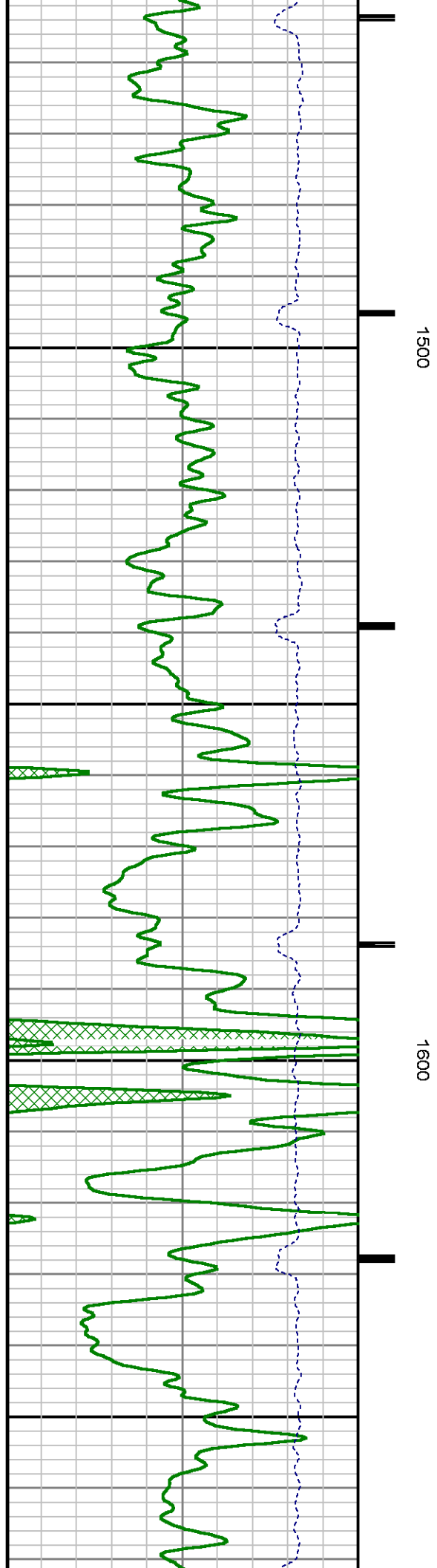
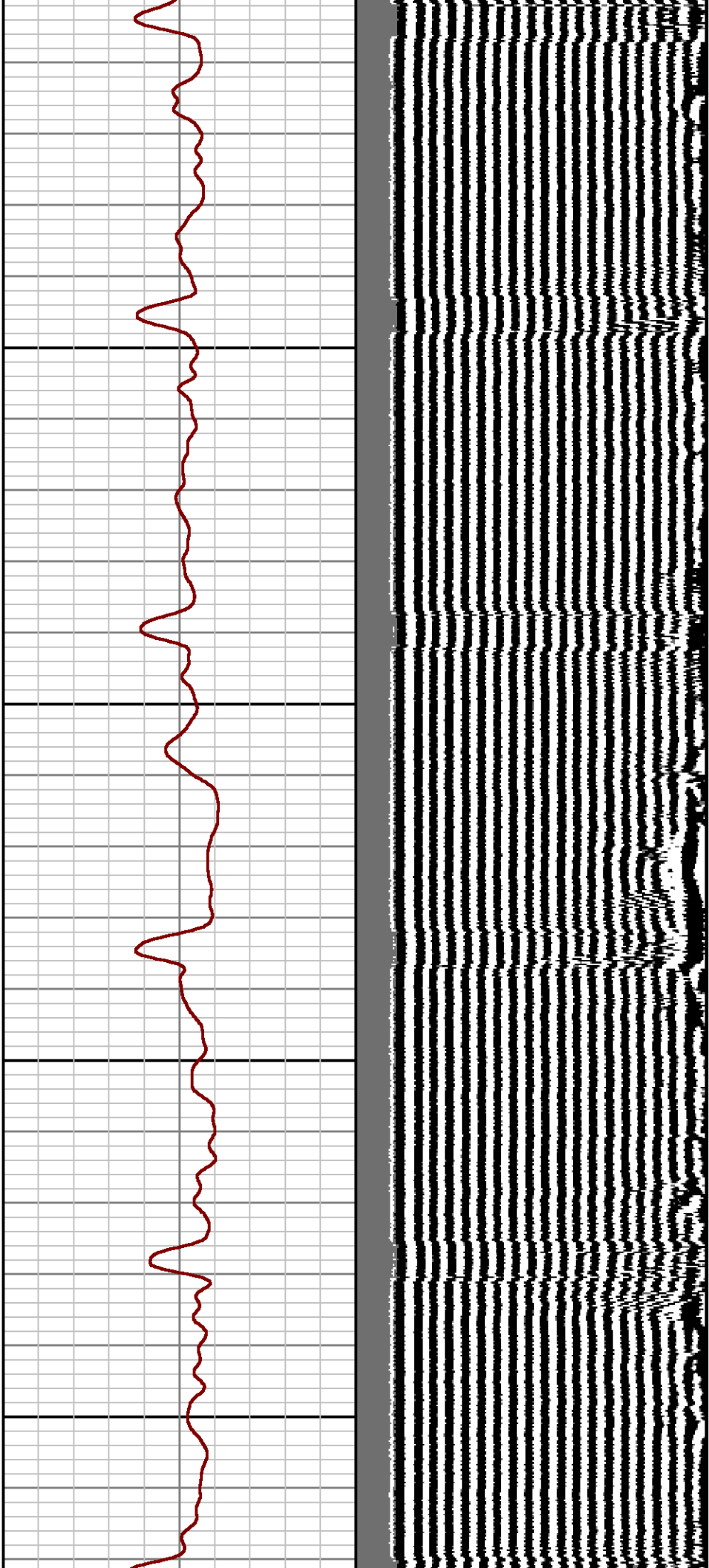


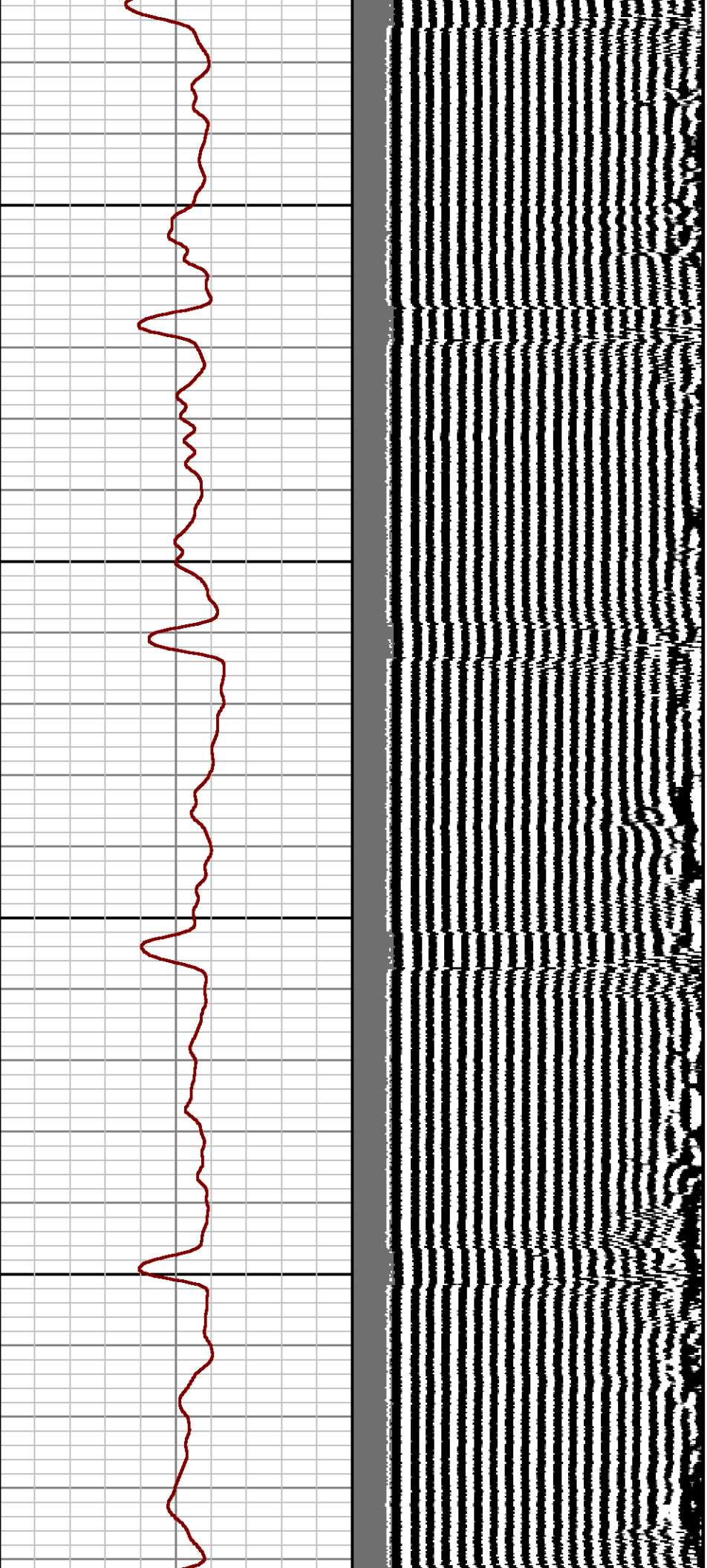






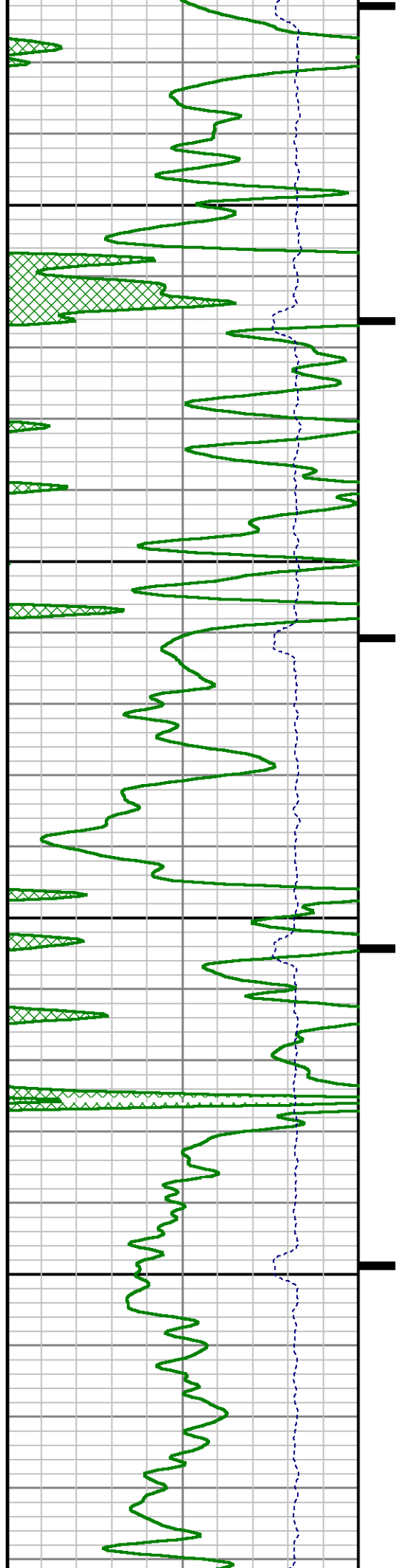


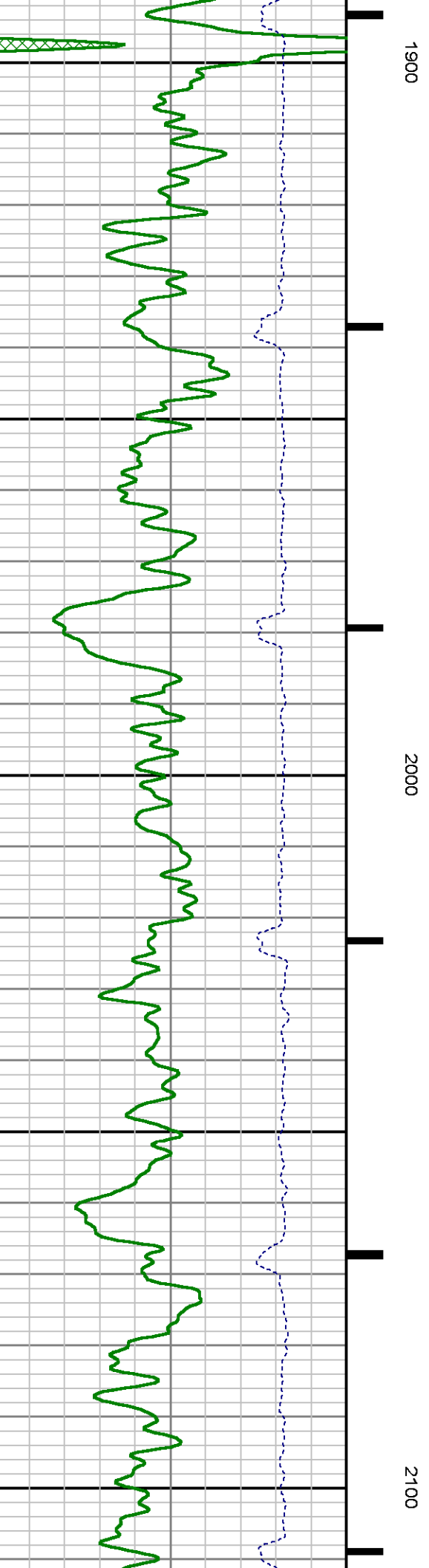
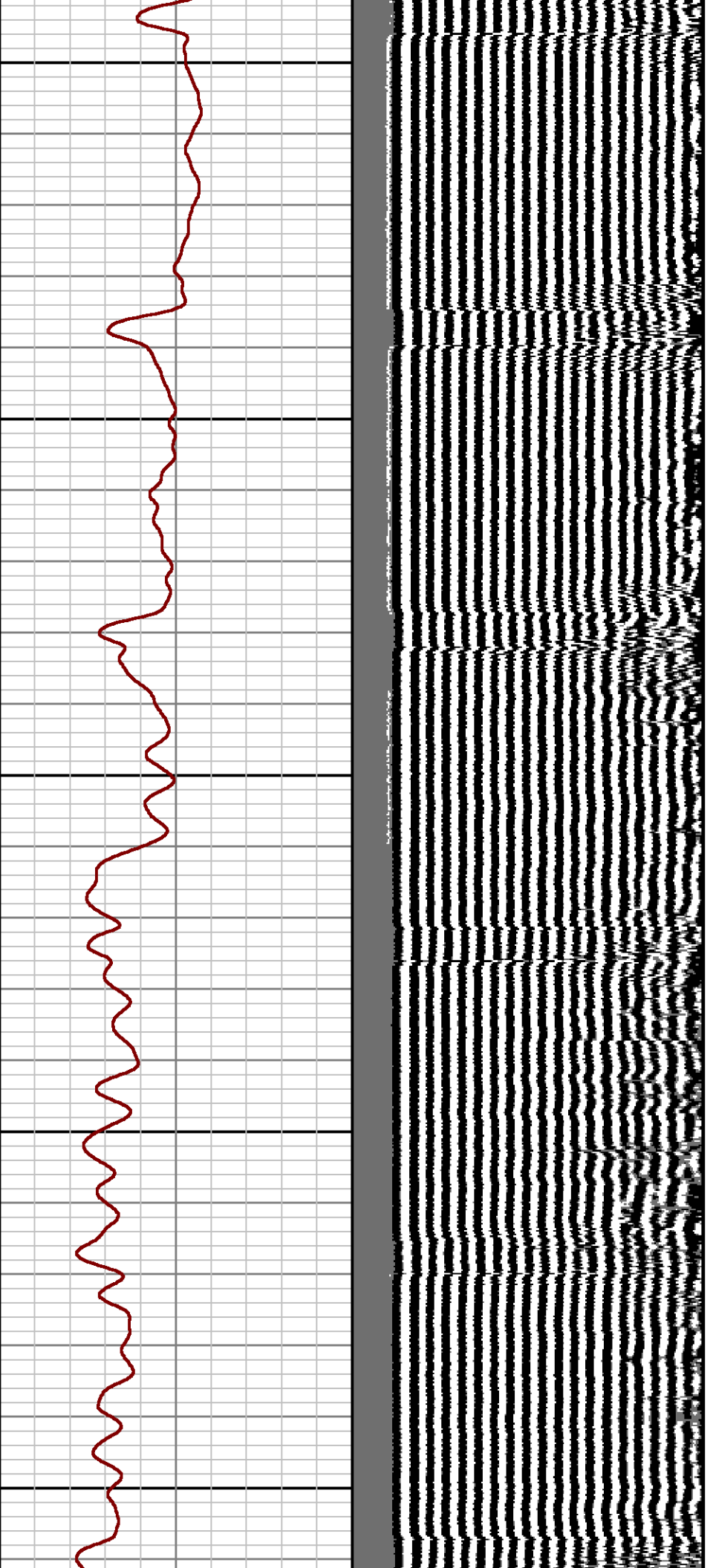


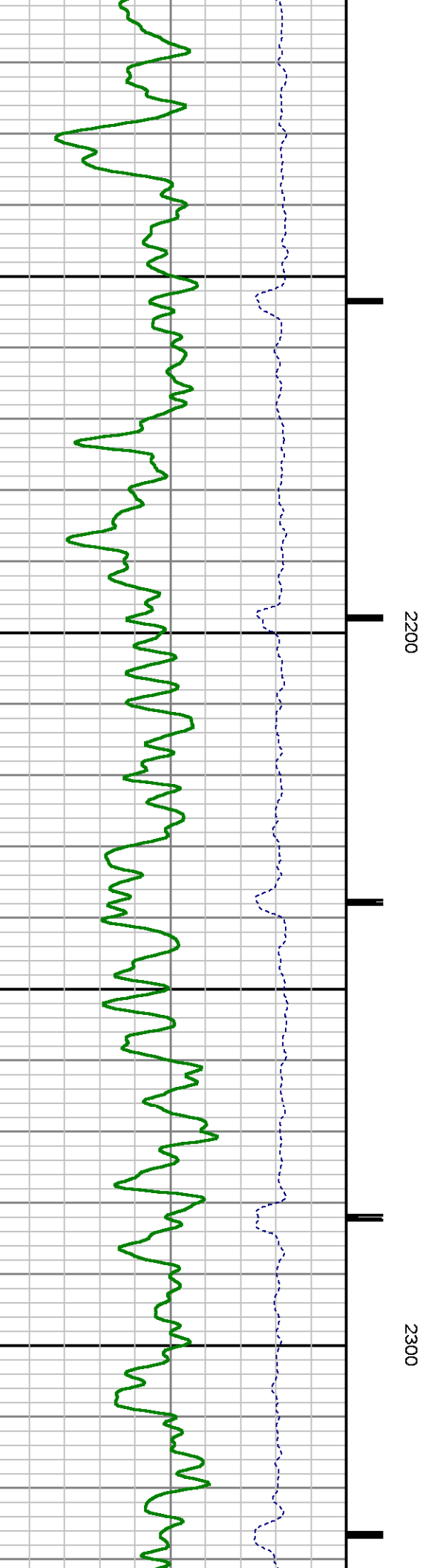
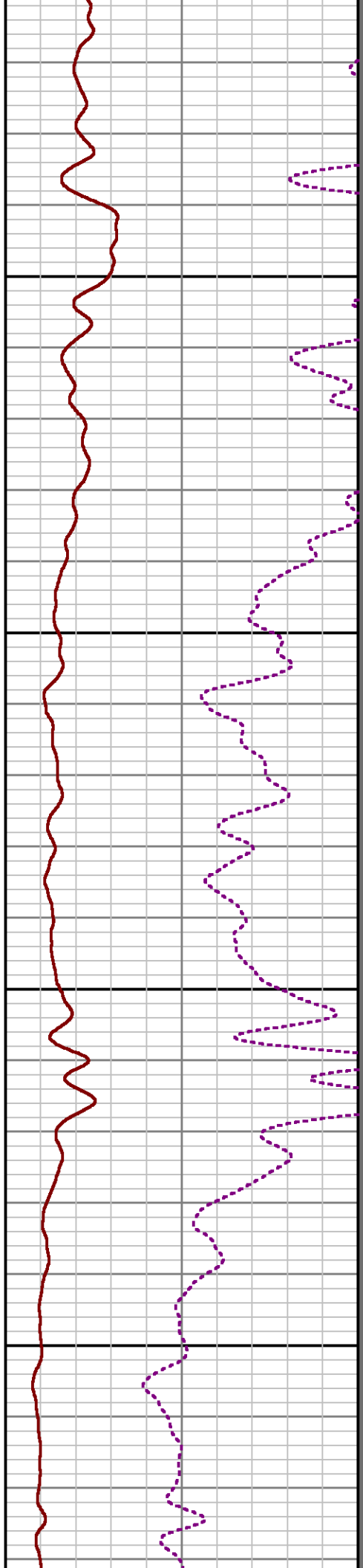
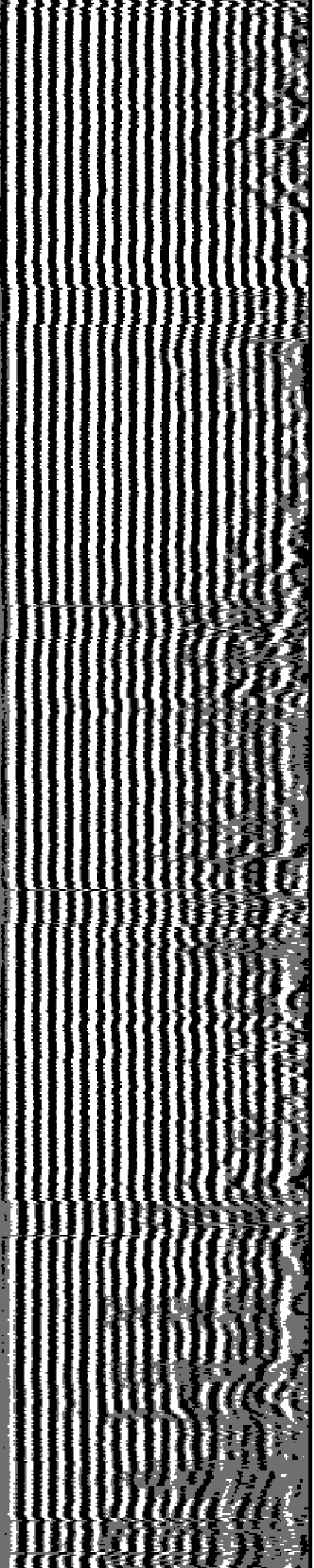


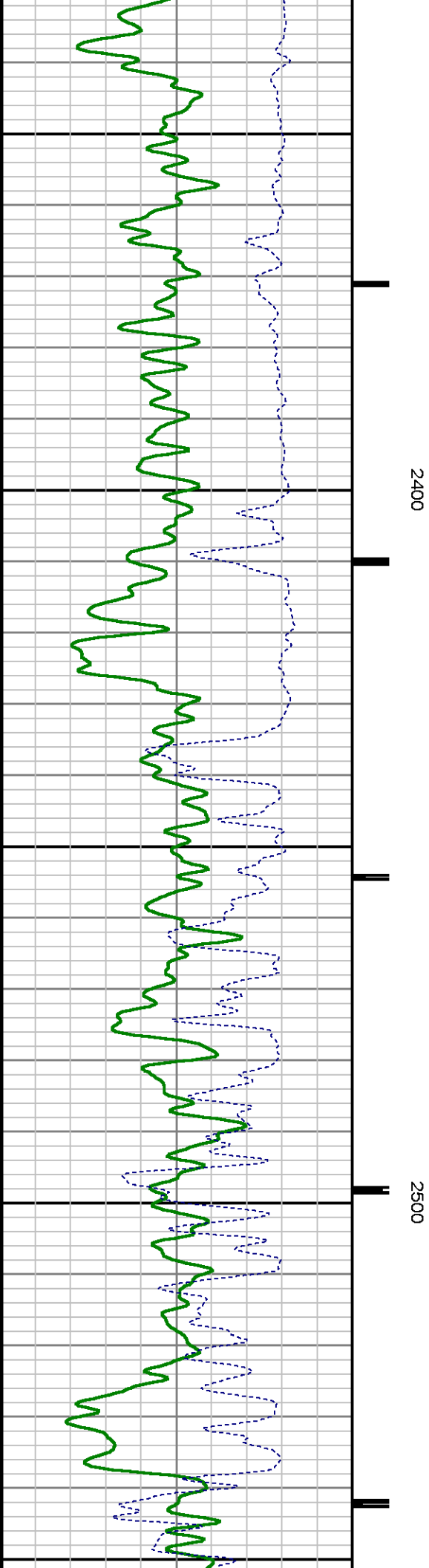
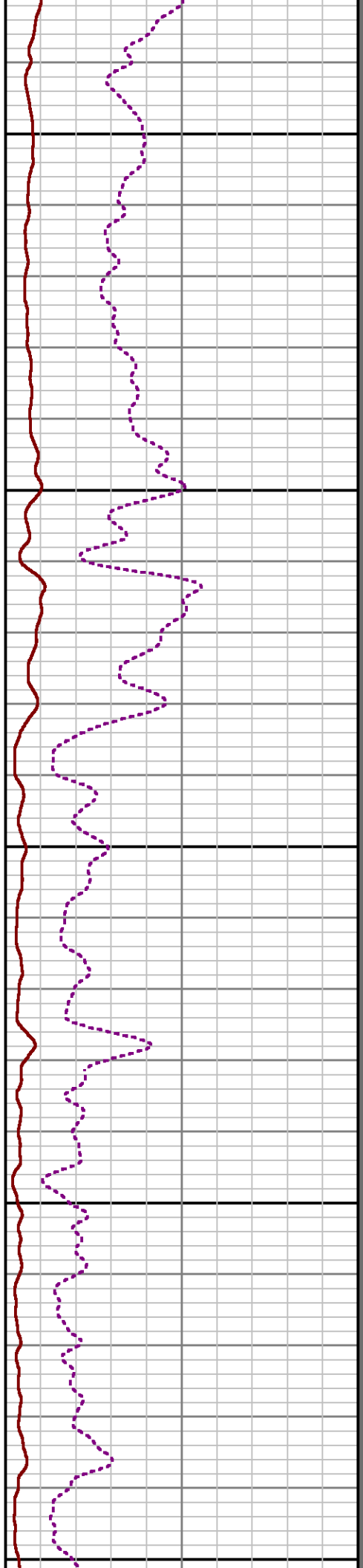
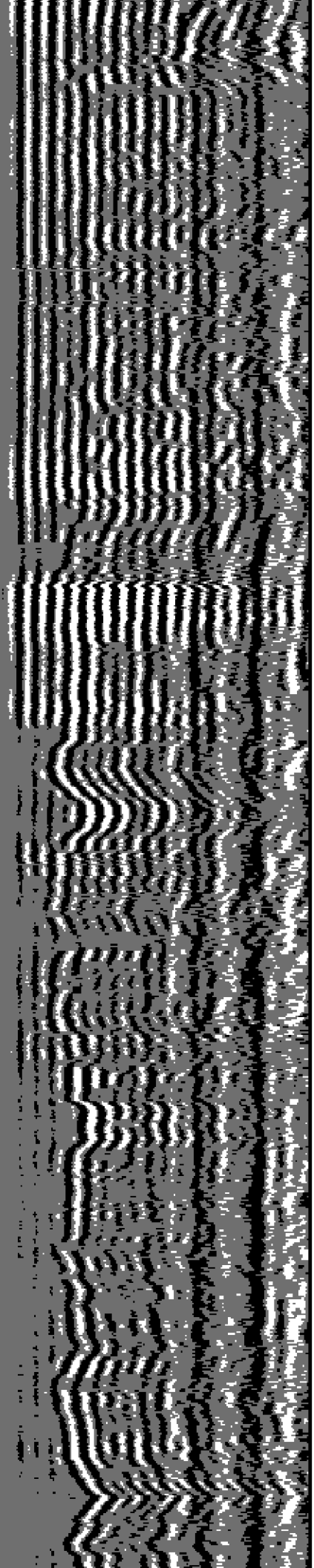
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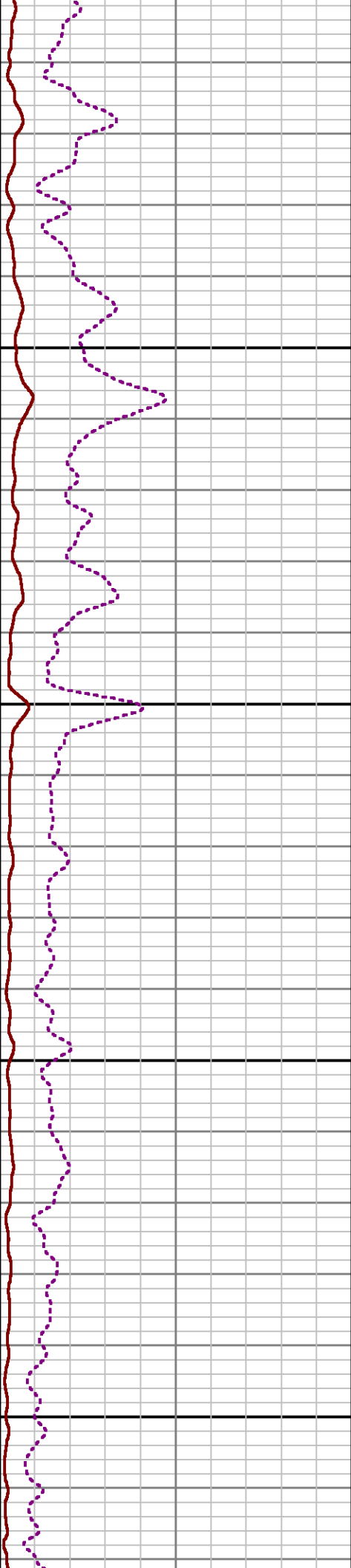
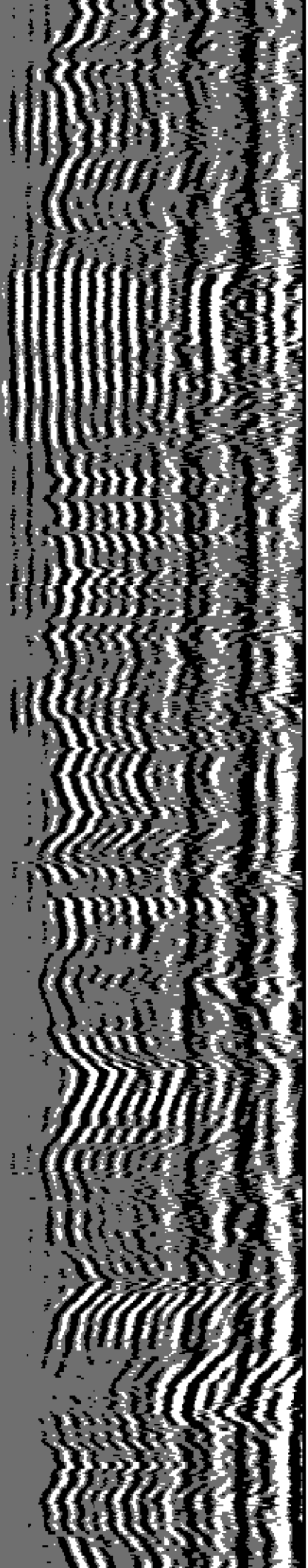
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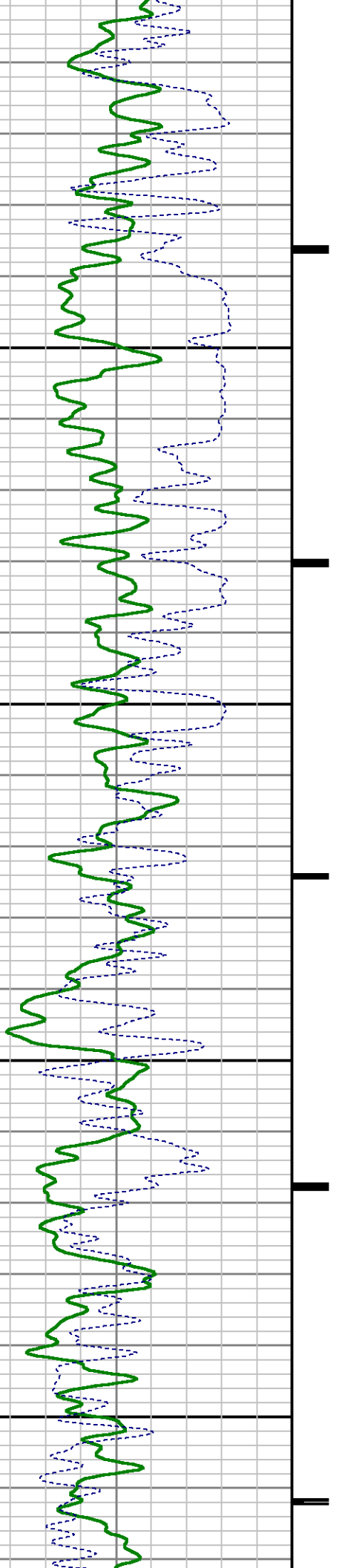


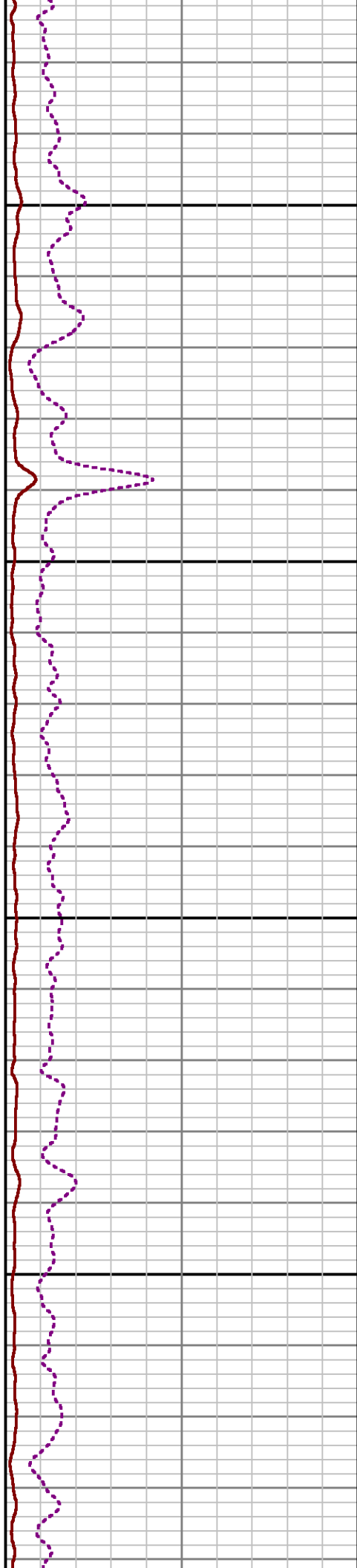
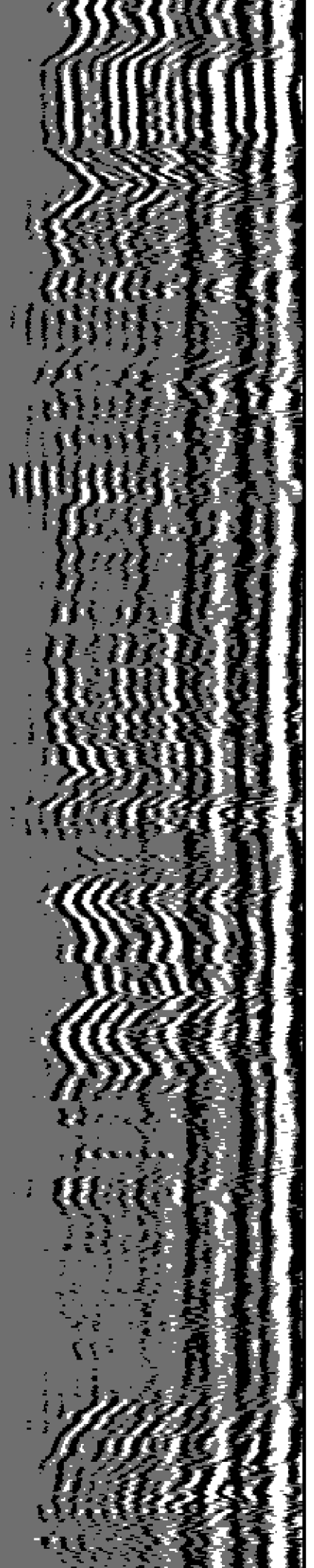




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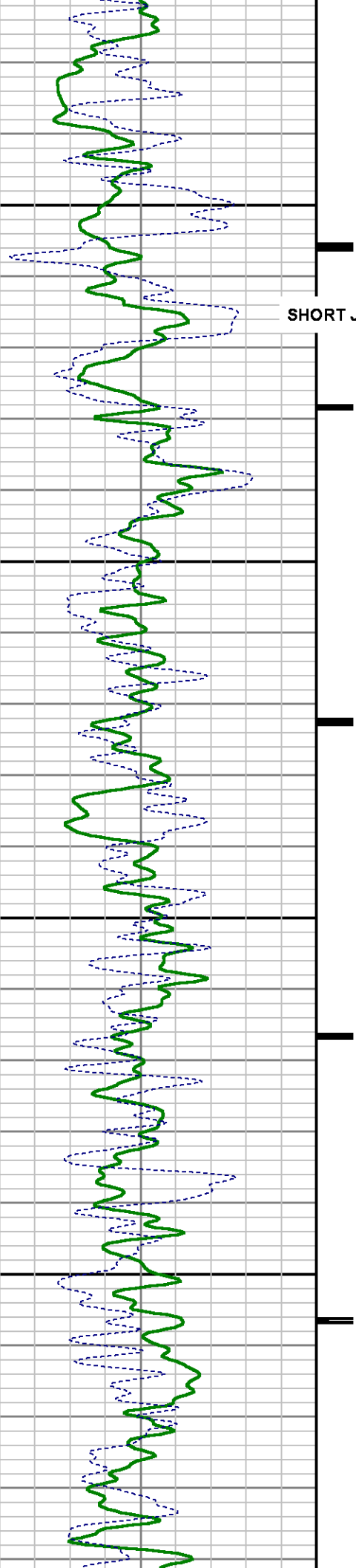


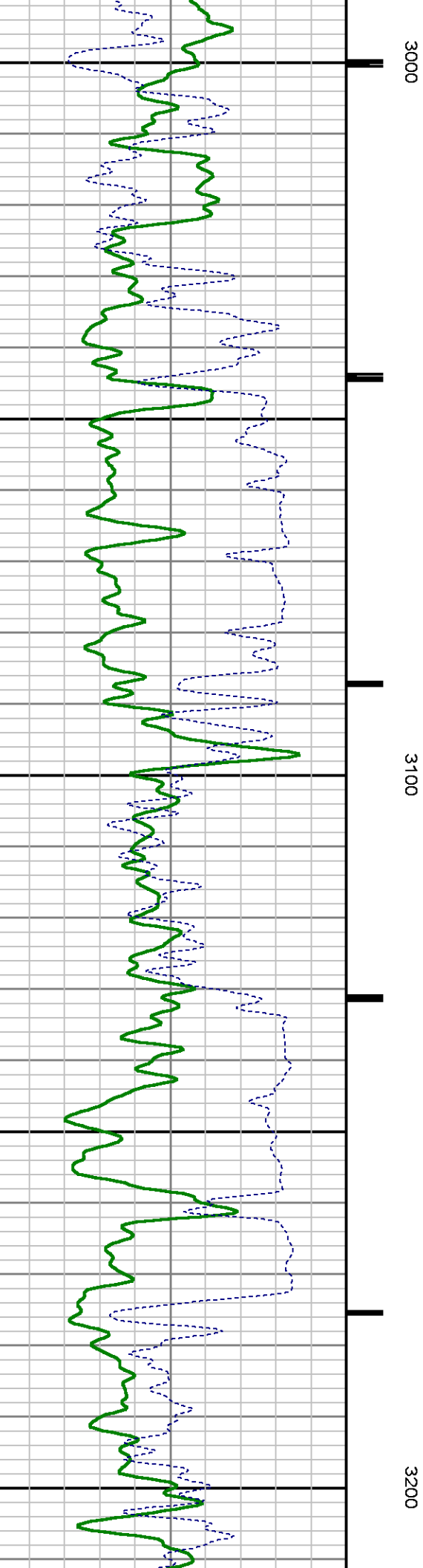
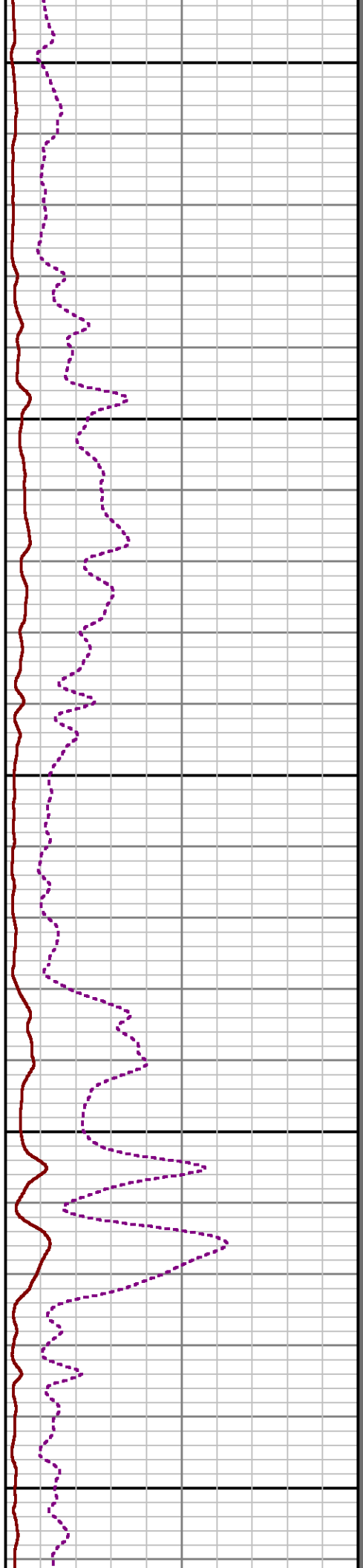
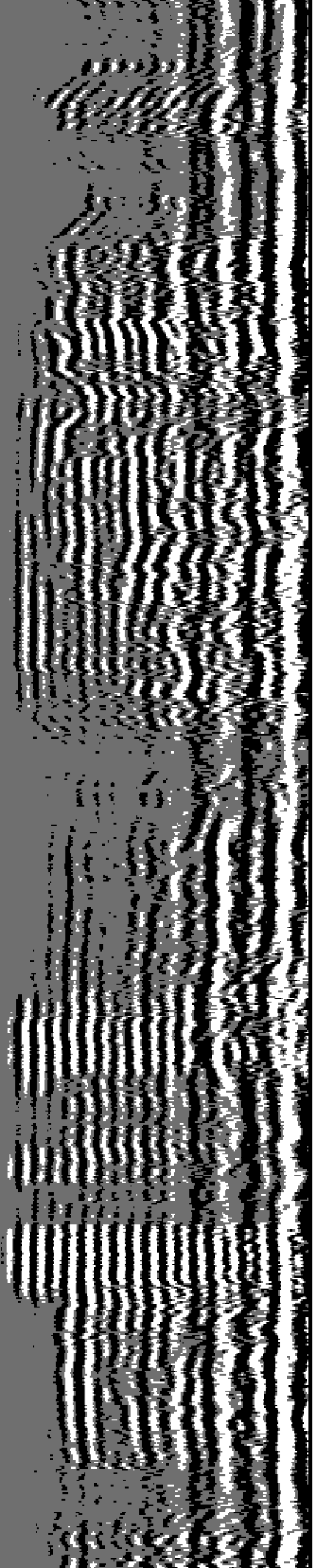


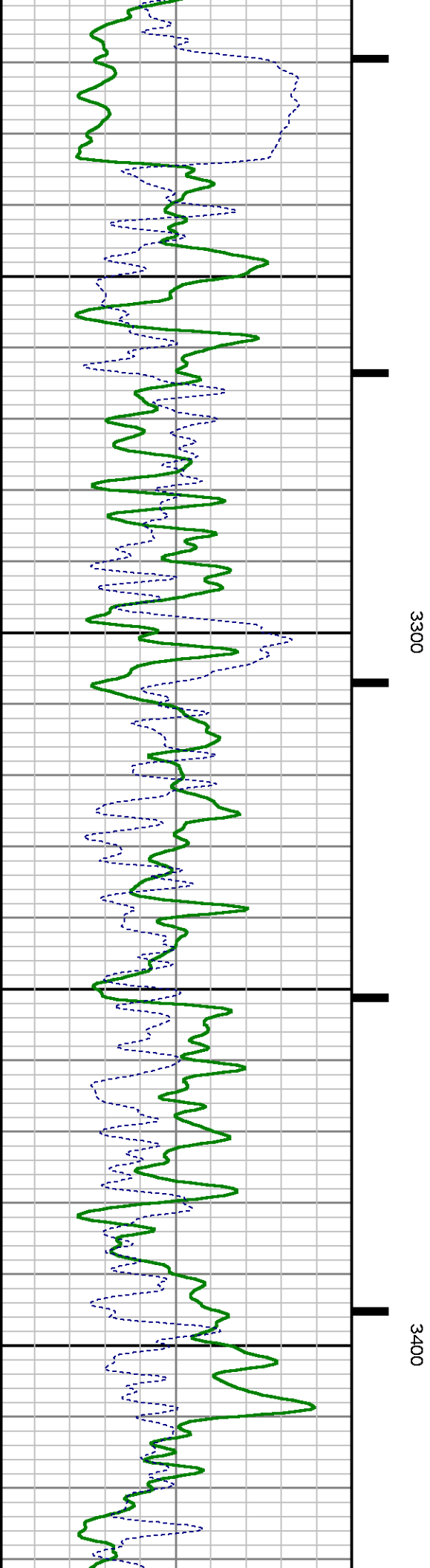
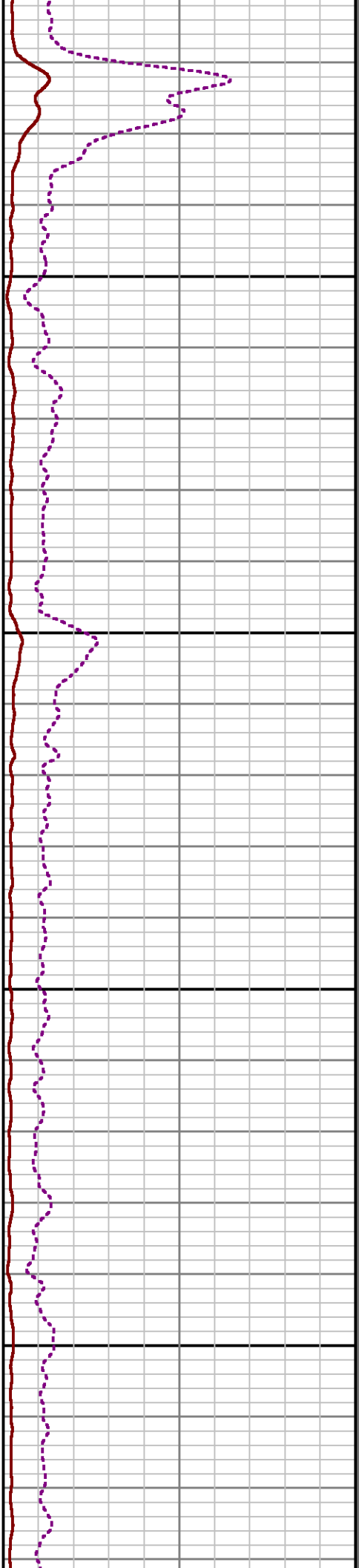
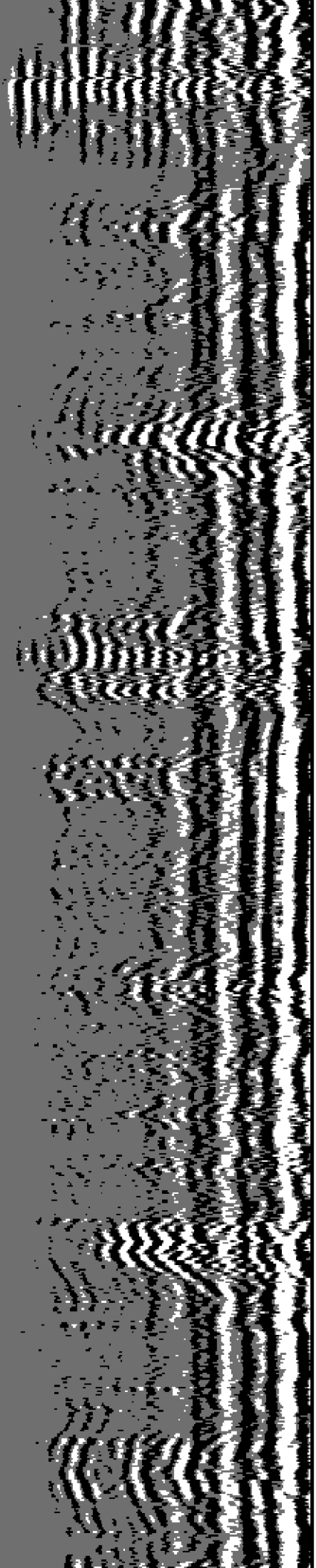
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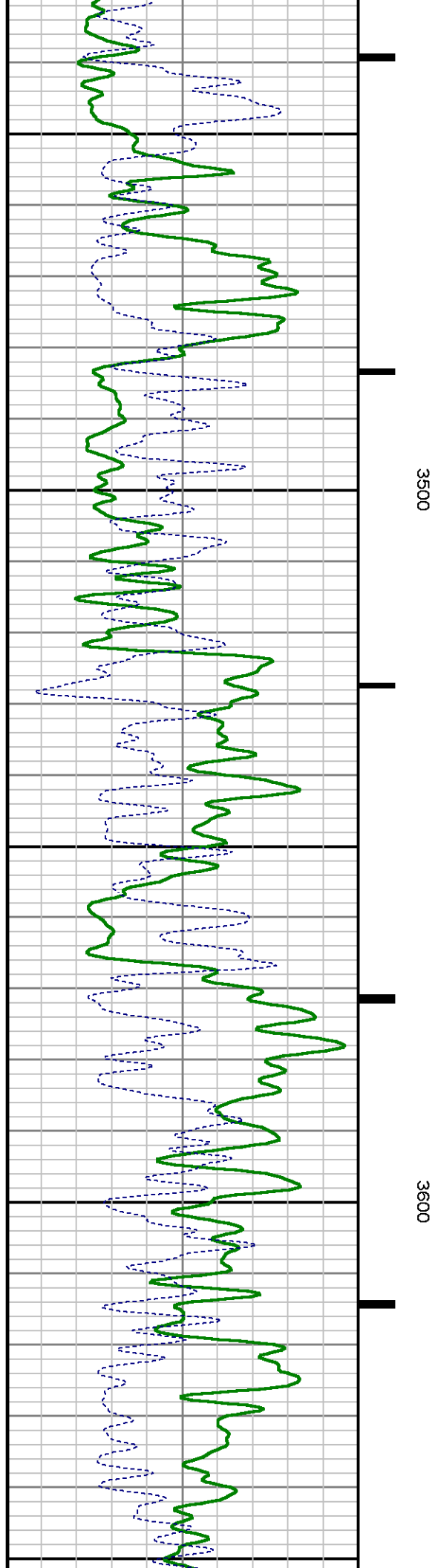
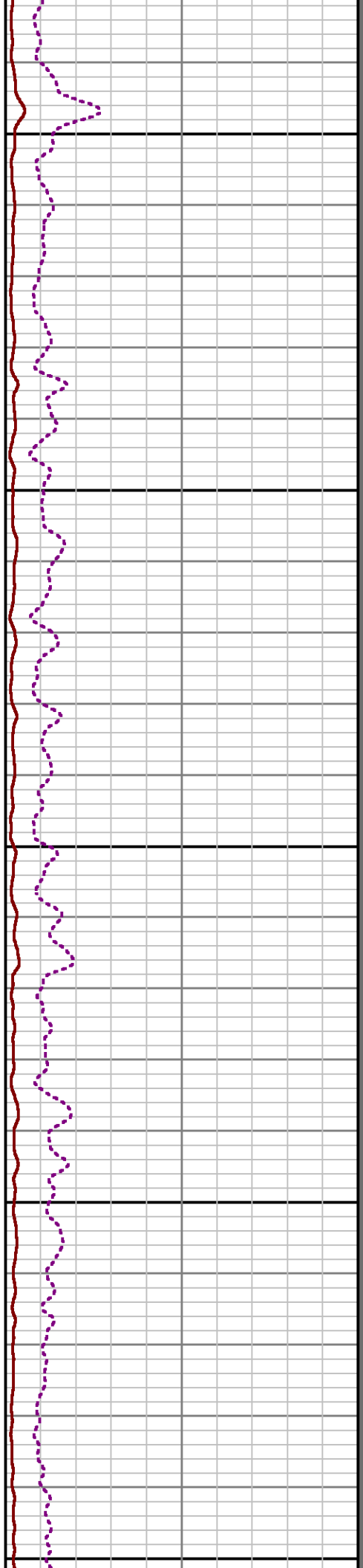
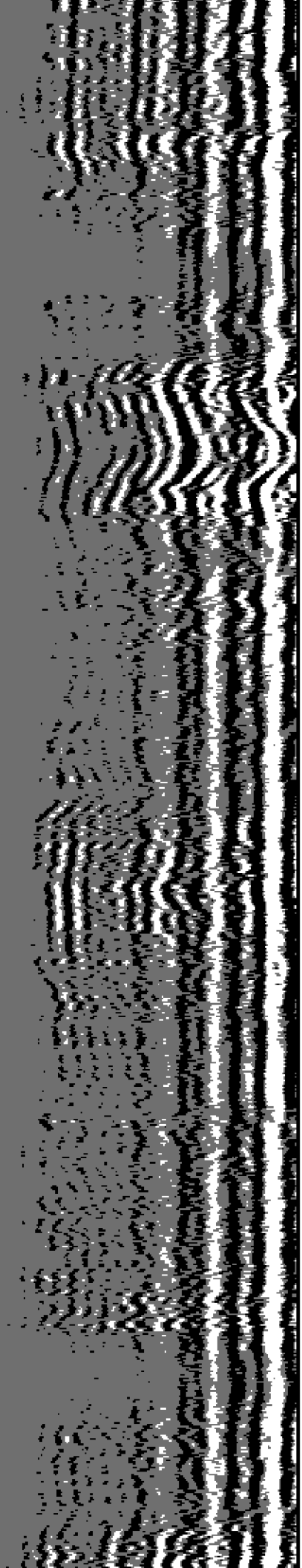
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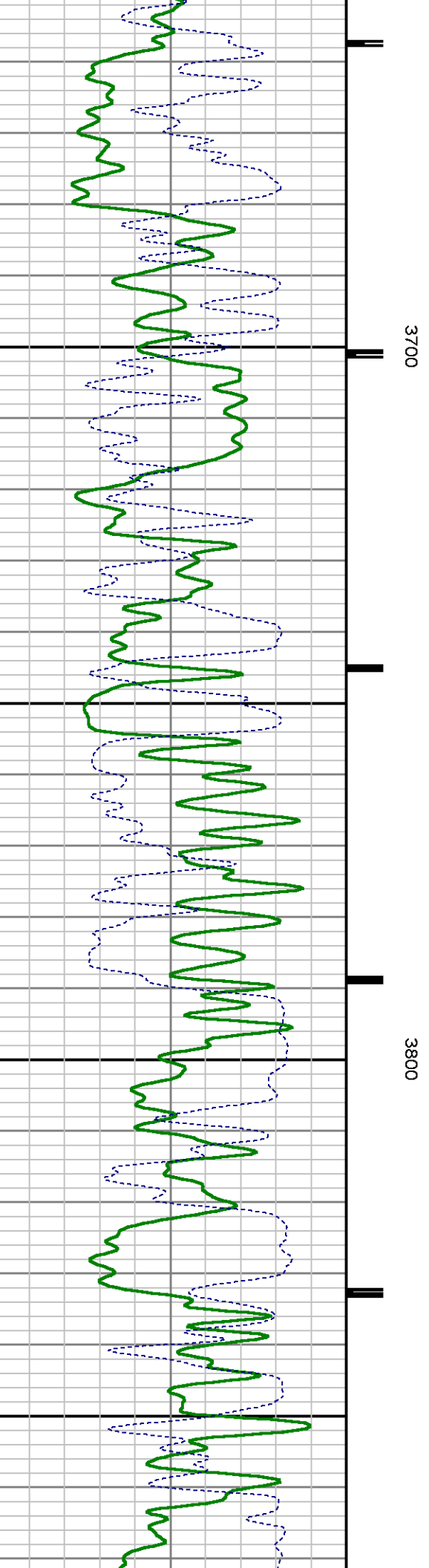
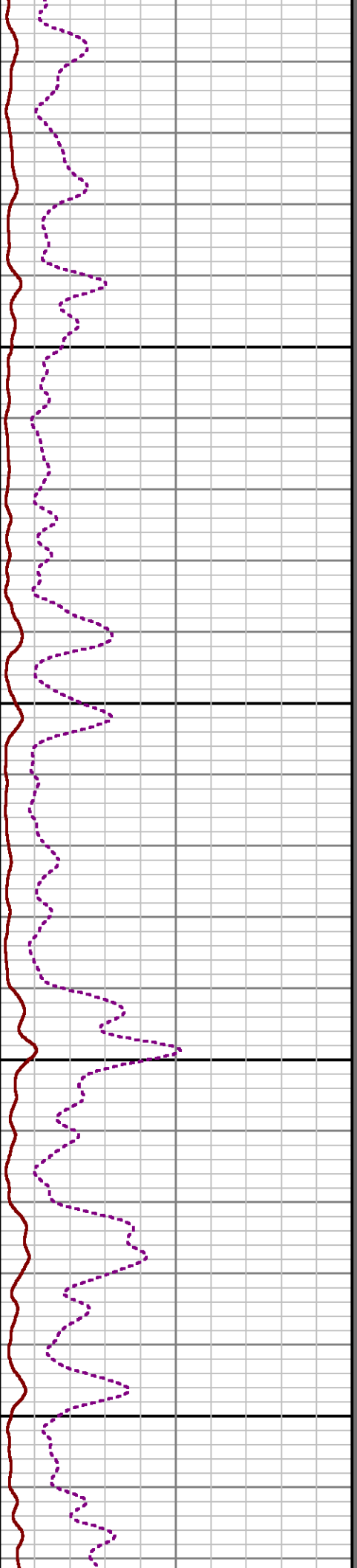
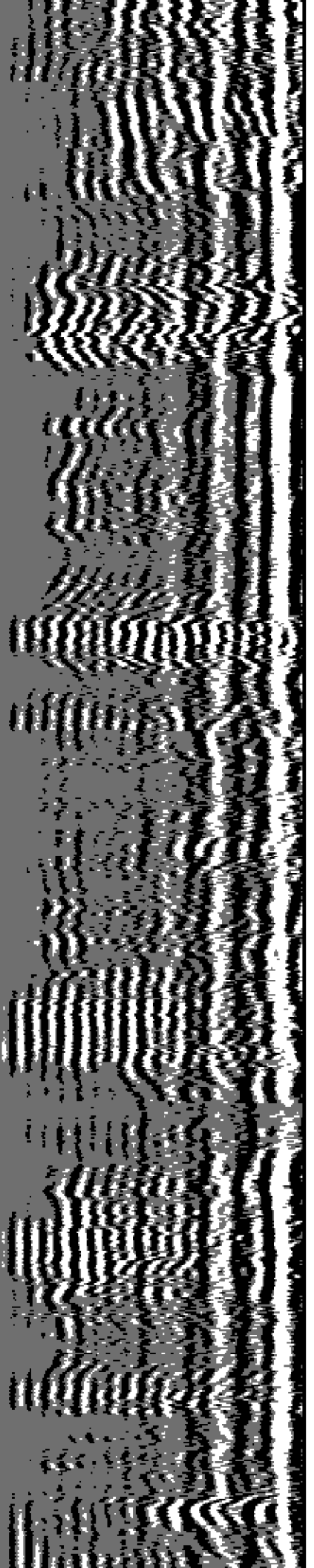
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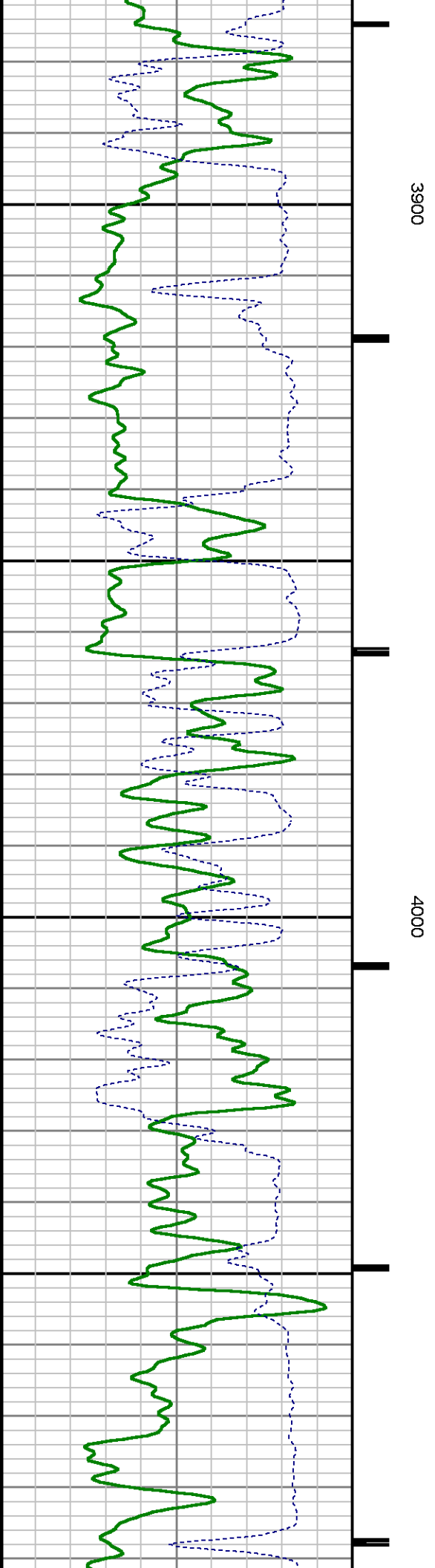
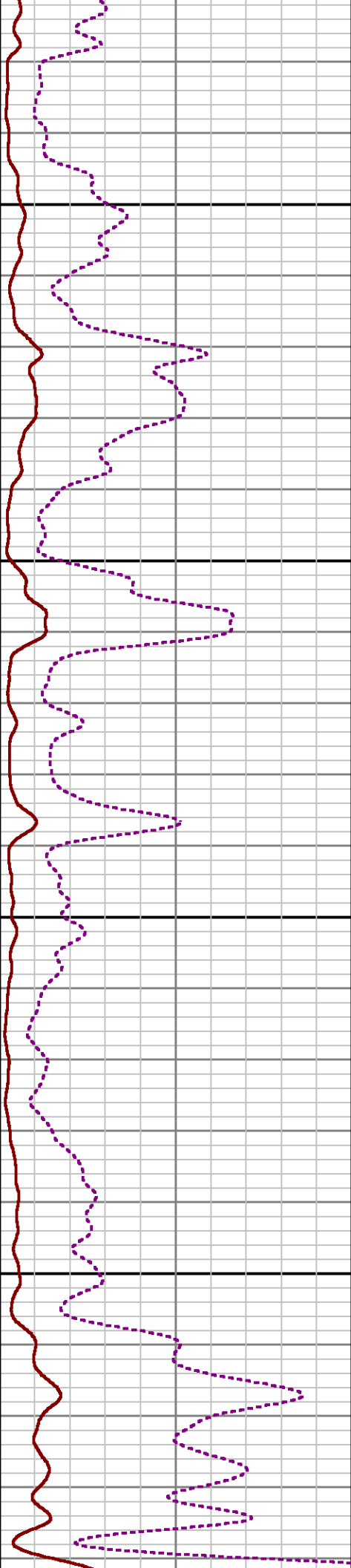
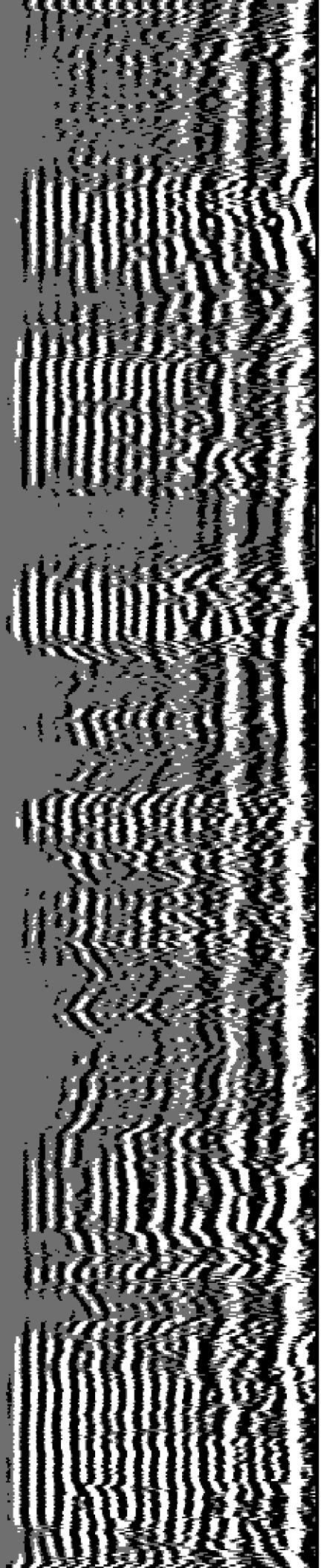


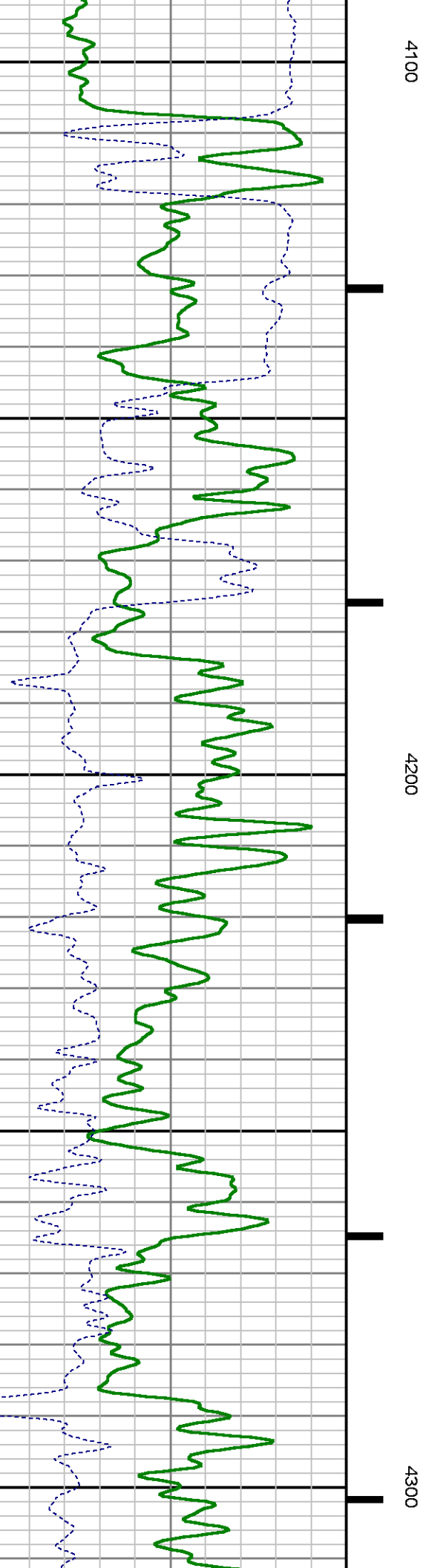
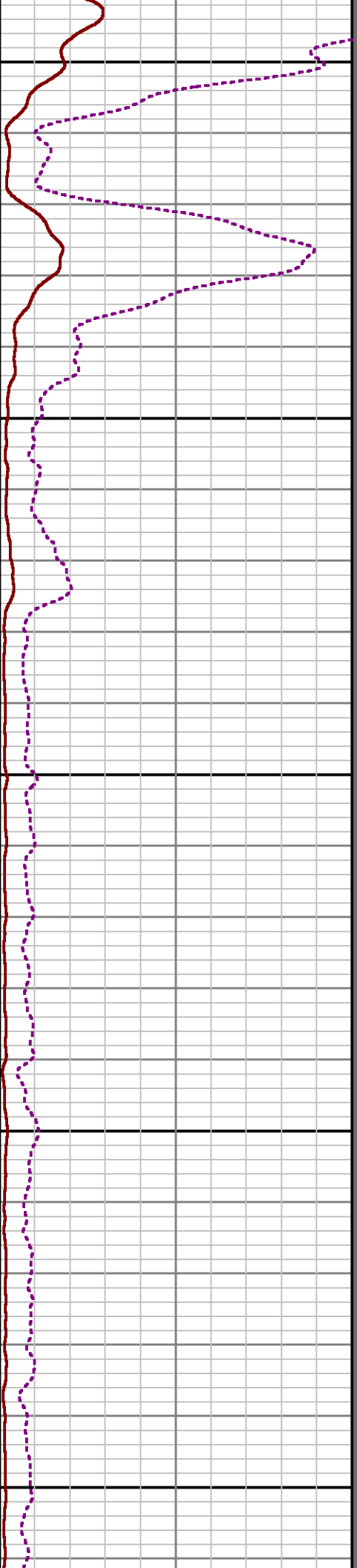
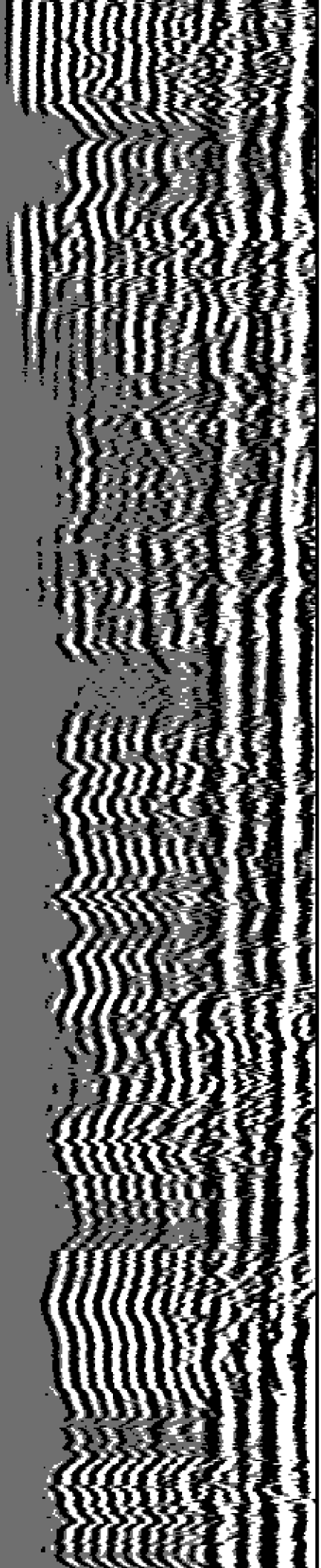


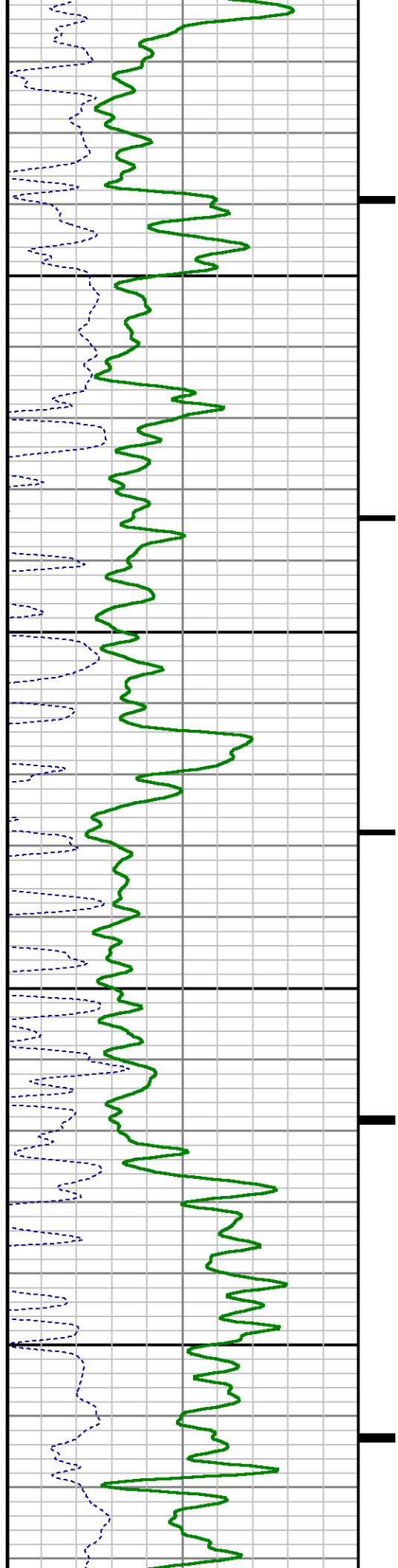
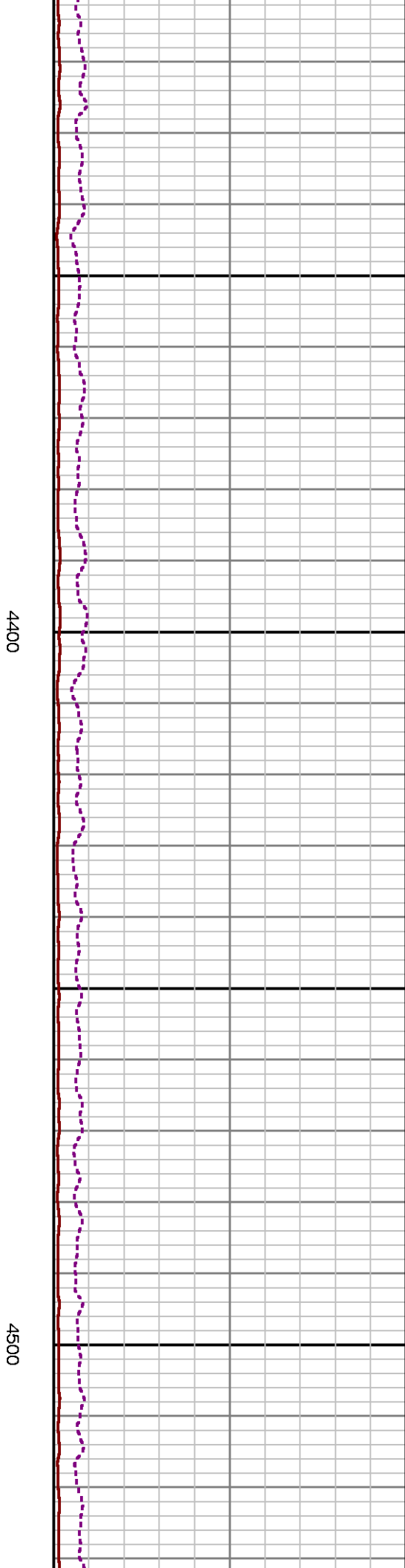
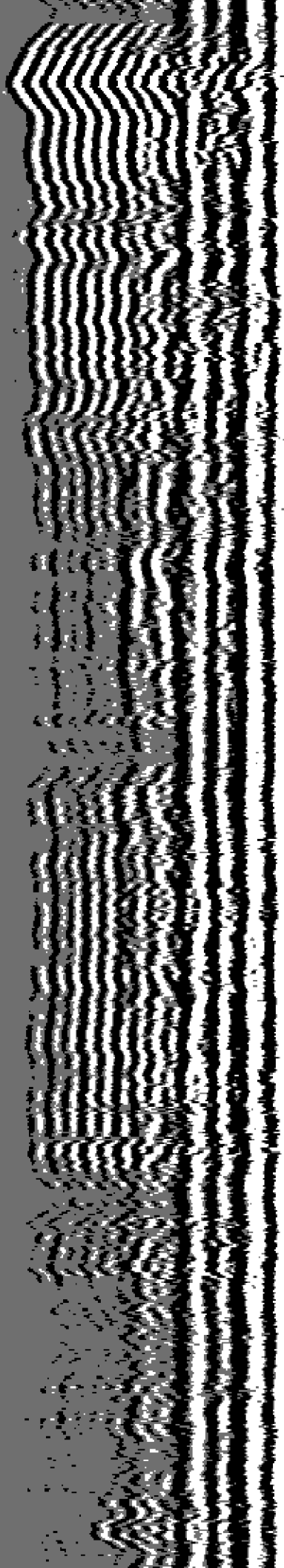


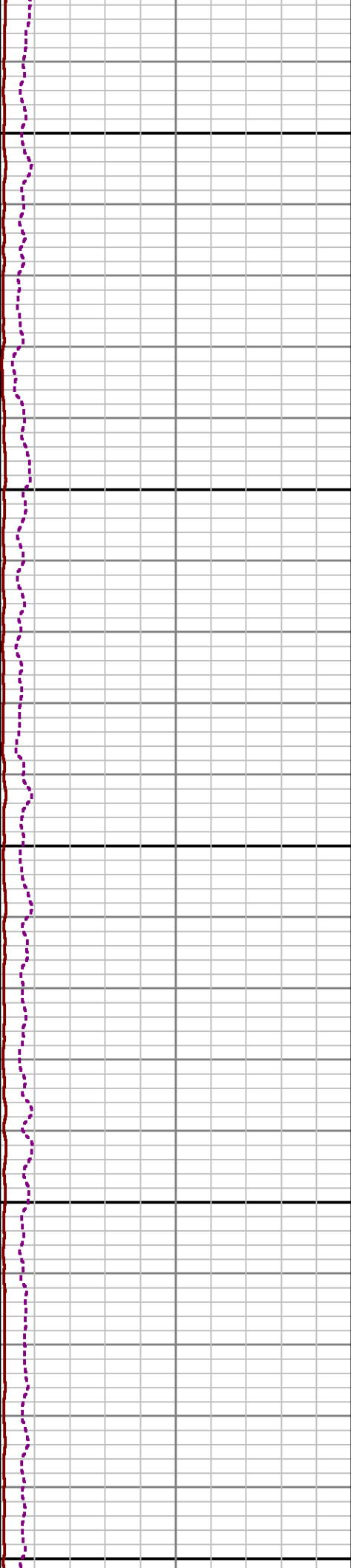
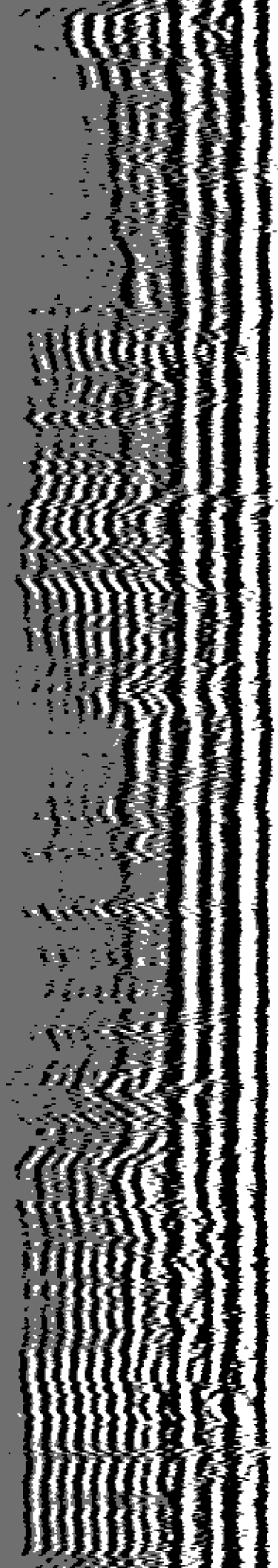






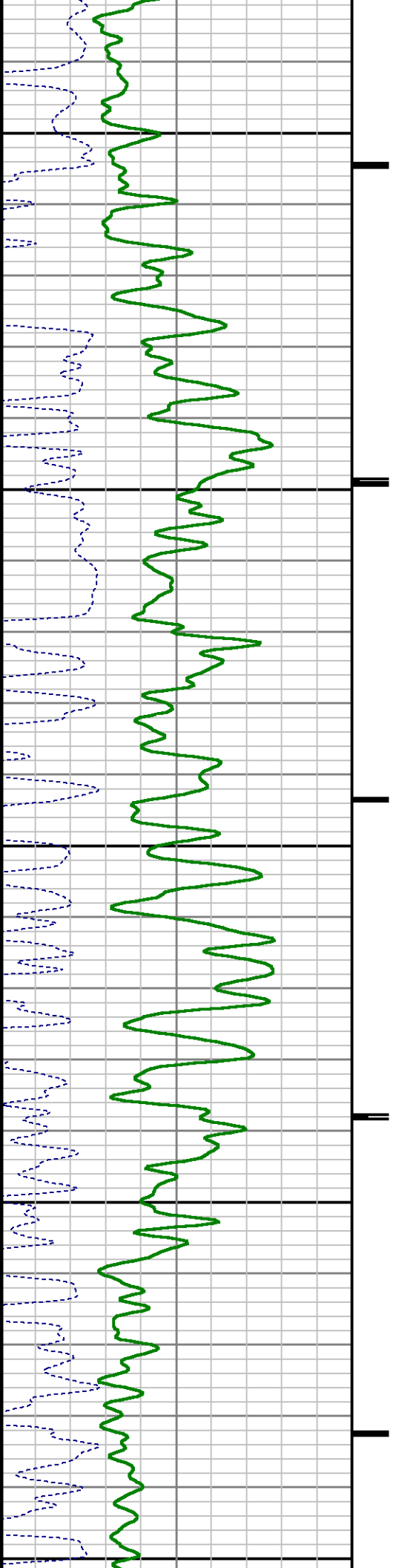


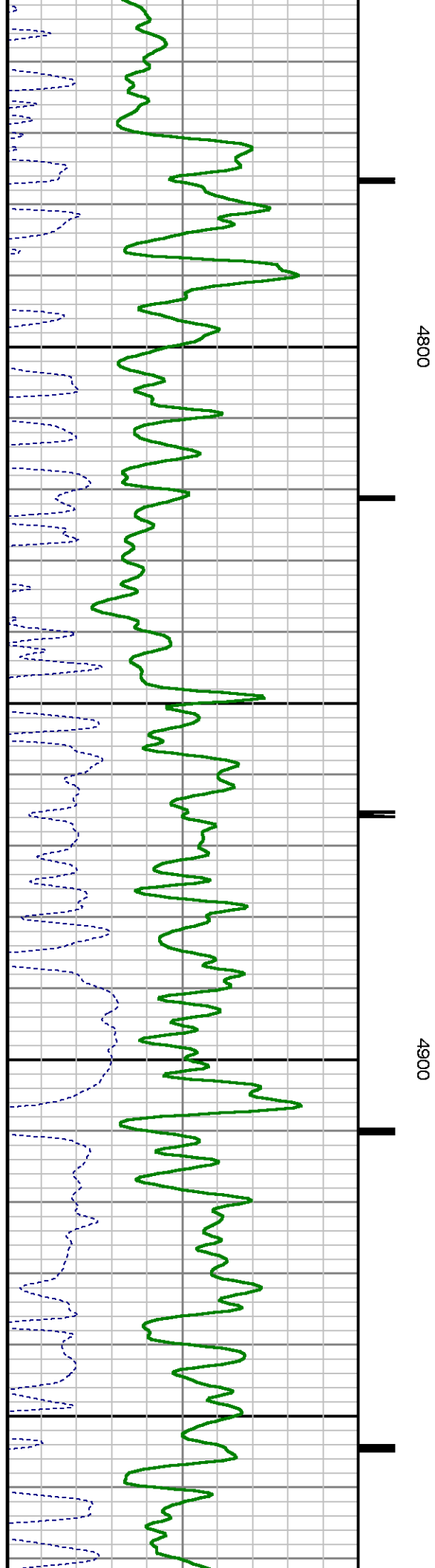
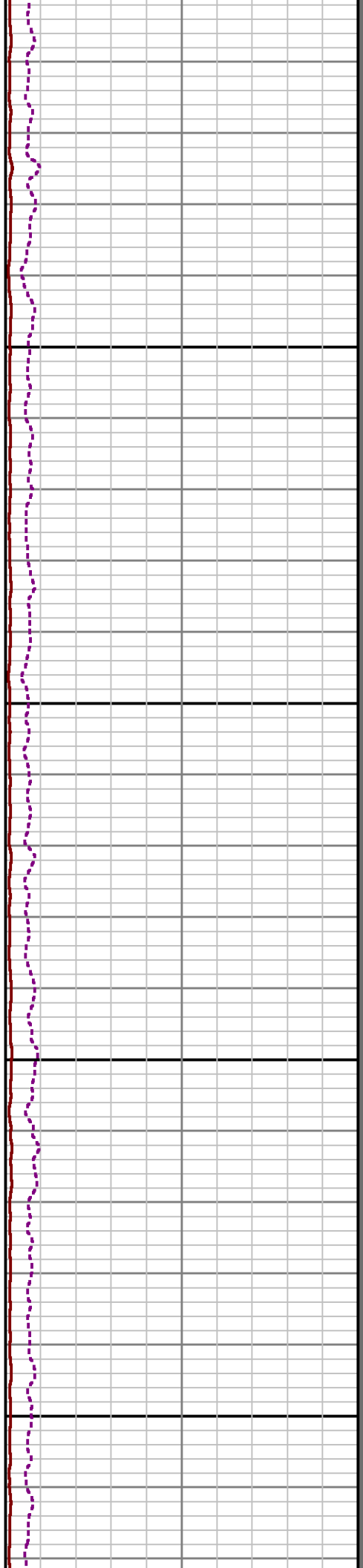
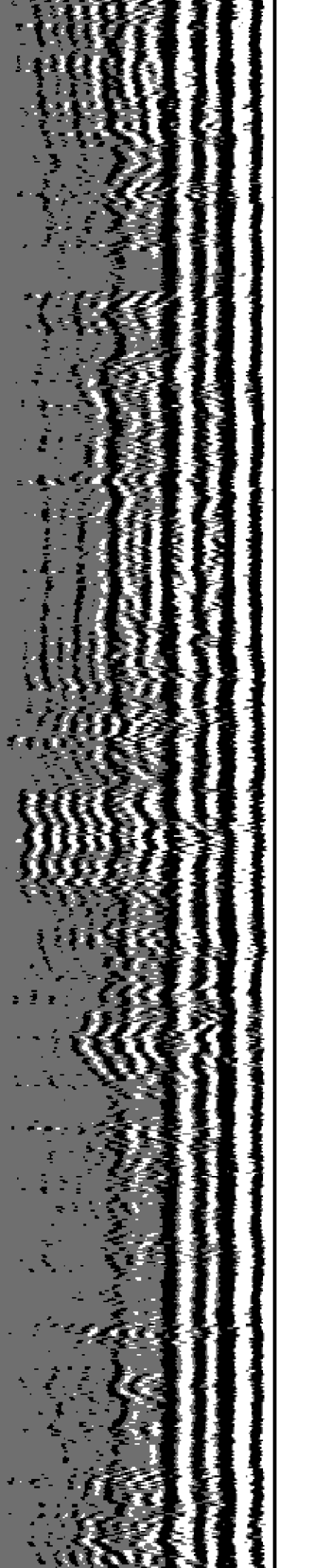


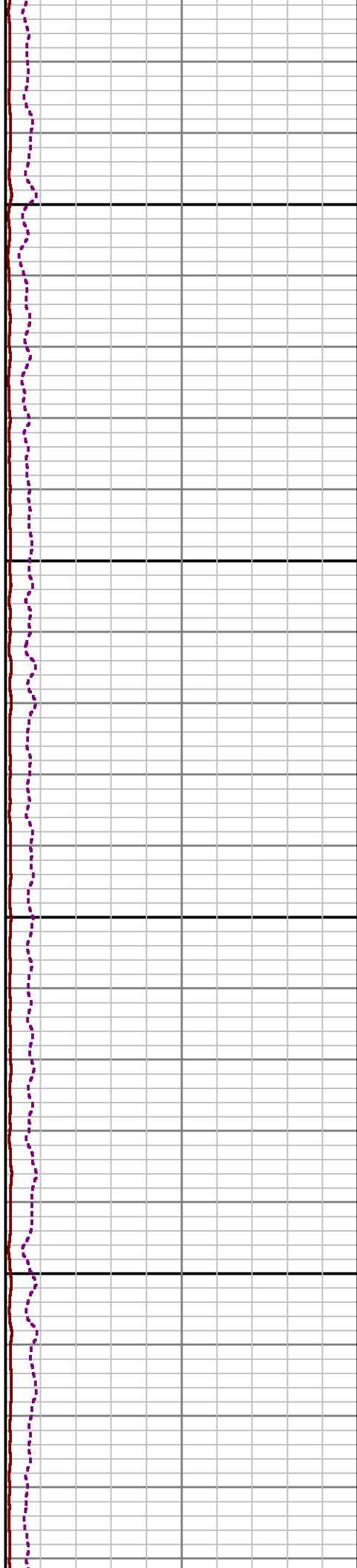
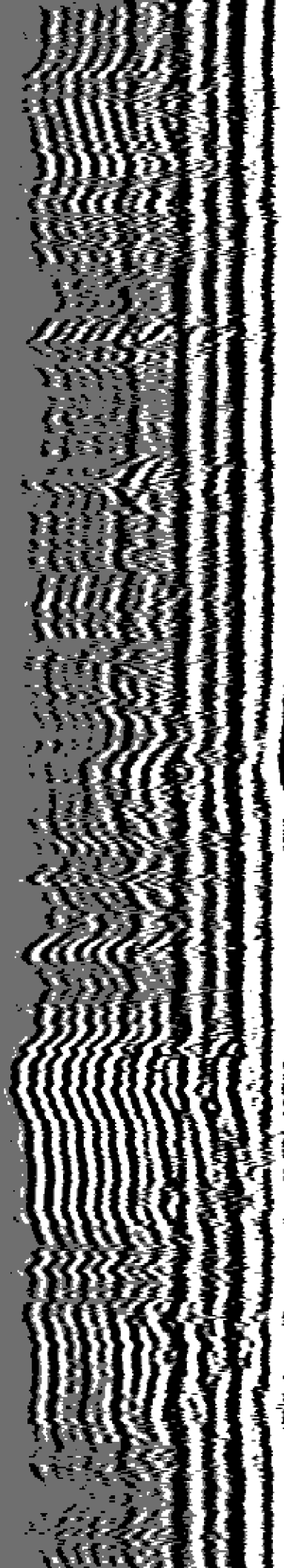


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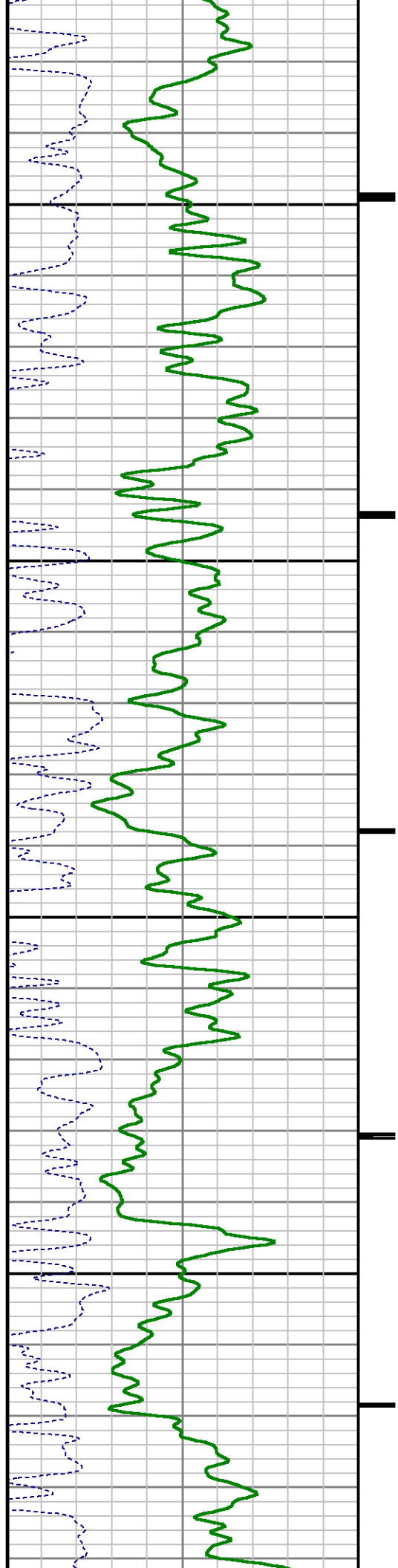


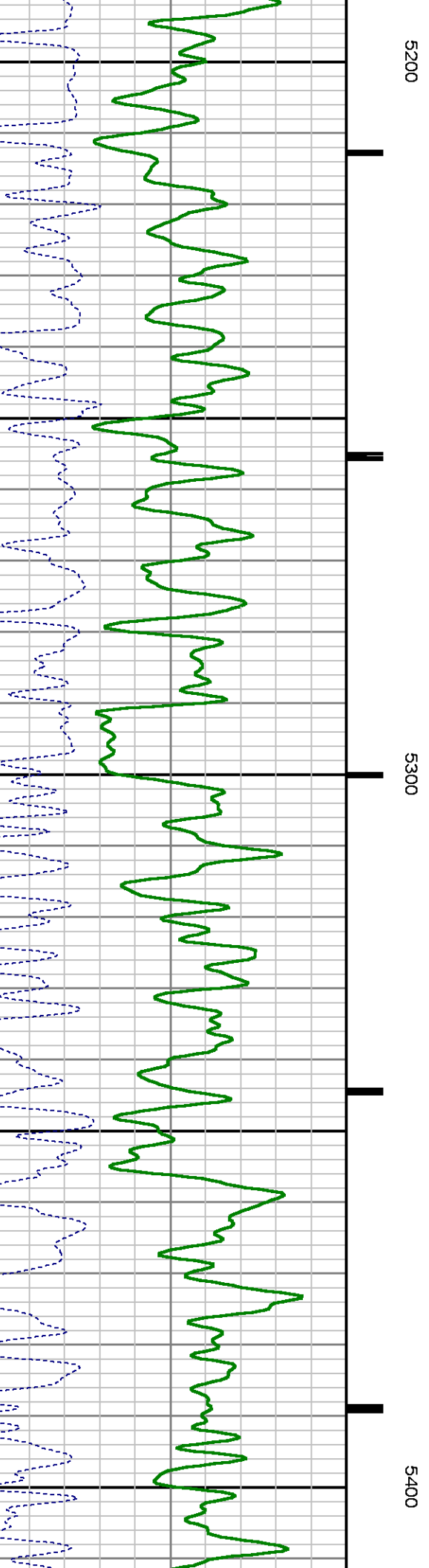
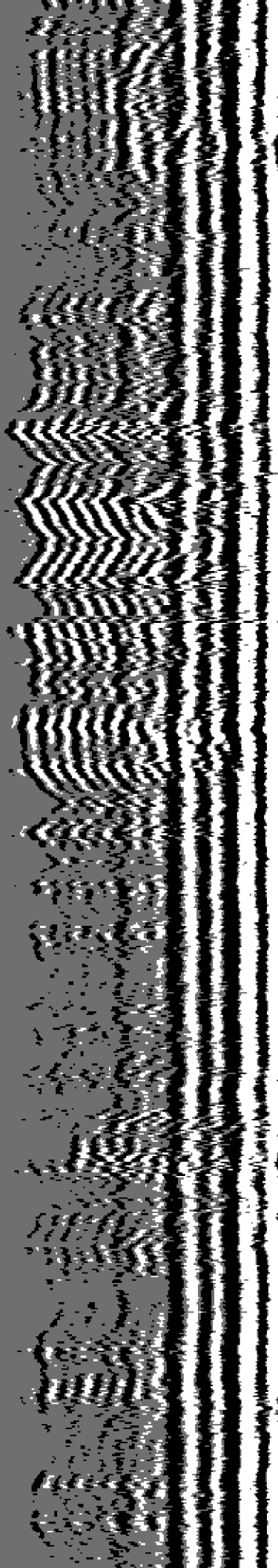


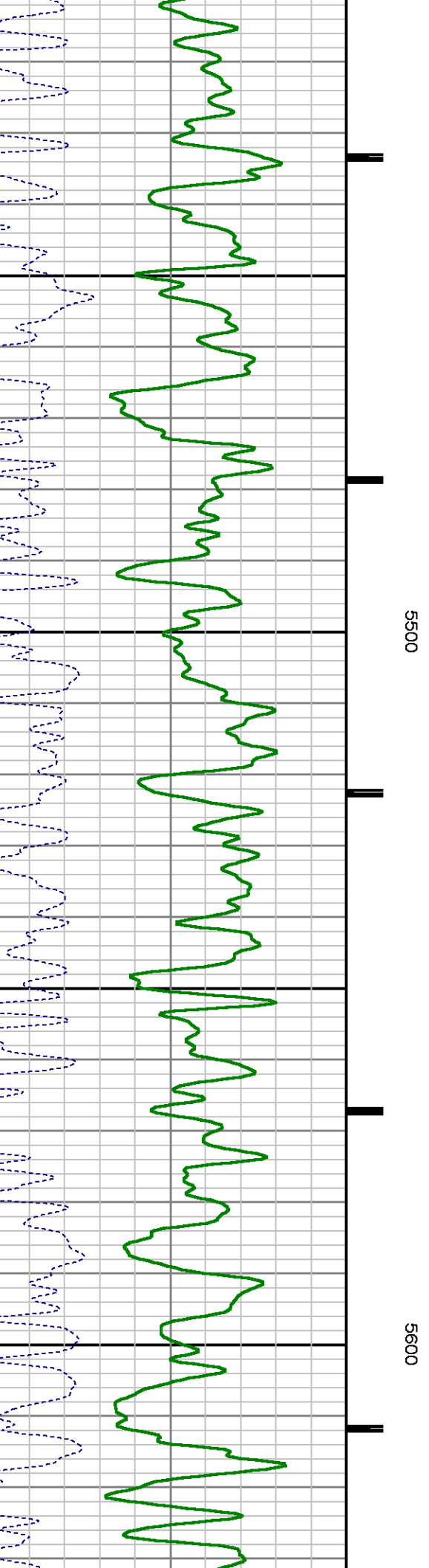
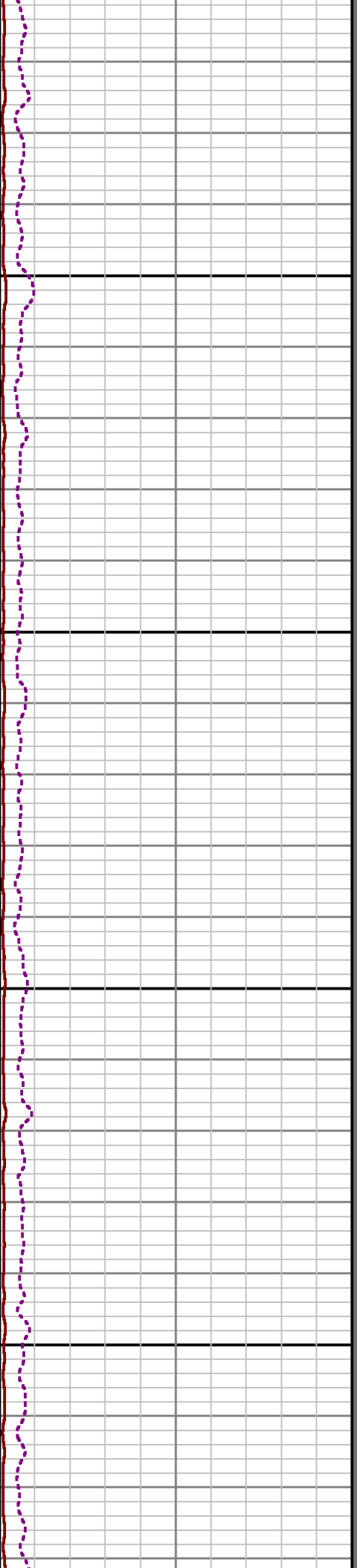
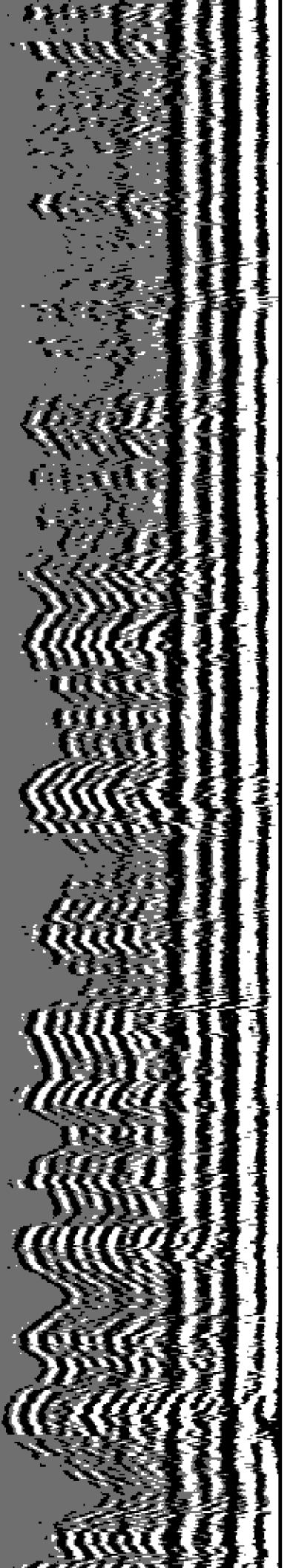


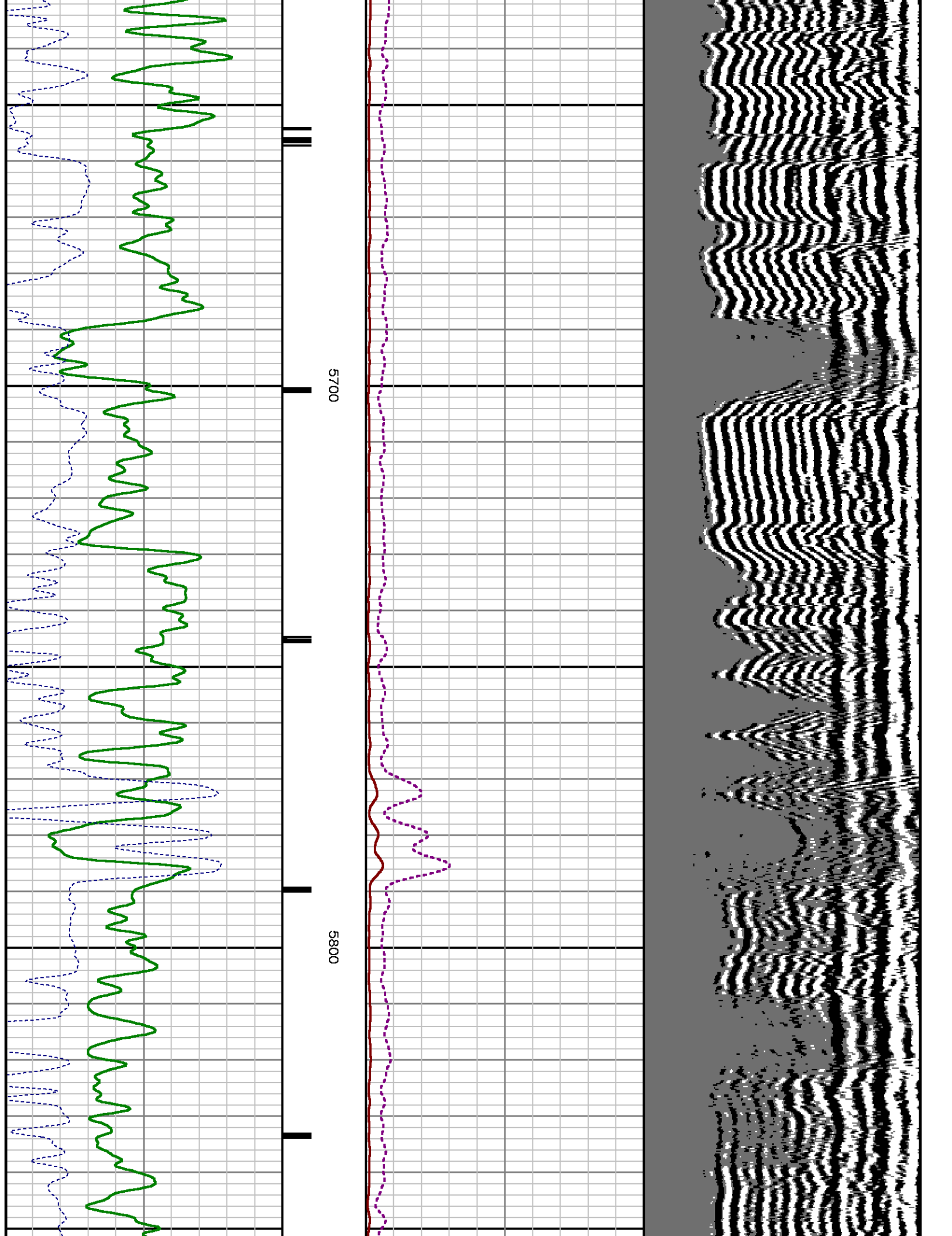
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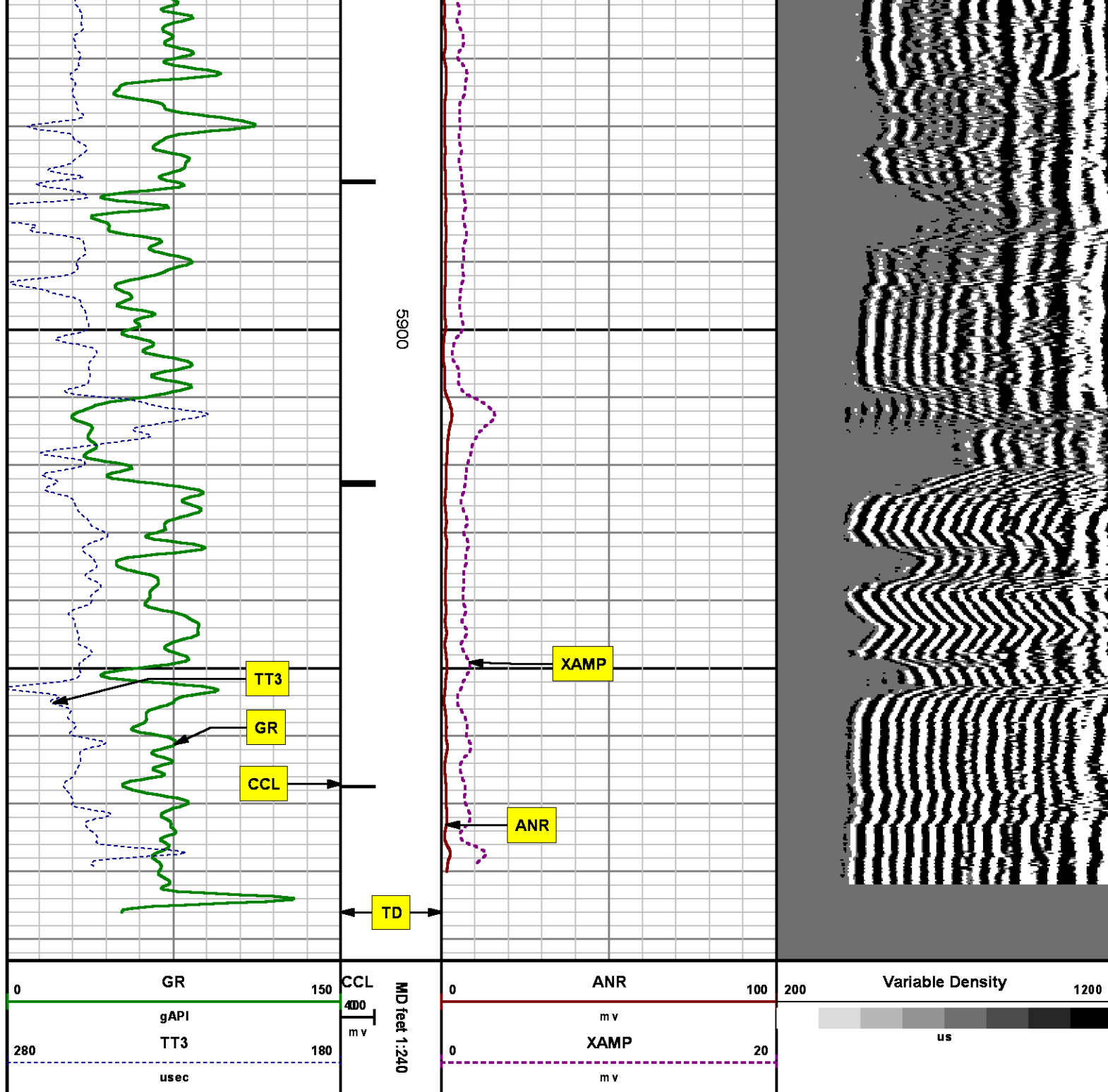
5100











SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	29.556	1254.000
RAL	Amp Gate Start Near	195.000	usec	29.556	1254.000
RAL	Amp Gate Start Radial	195.000	usec	29.556	1254.000
RAL	Amp Gate Width Far	25.000	usec	29.556	1254.000
RAL	Amp Gate Width Near	25.000	usec	29.556	1254.000
RAL	Amp Gate Width Radial	25.000	usec	29.556	1254.000
RAL	casing od	4.500	inches	29.556	1254.000
RAL	casing wt	11.600	lbm/ft	29.556	1254.000
RAL	FB Start Far	291.900	usec	29.556	1254.000
RAL	FB Start Near	180.000	usec	29.556	1254.000
RAL	FB Start Radial	180.000	usec	29.556	1254.000
RAL	FB Thresh Far	10.000	mV	29.556	1254.000
RAL	FB Thresh Near	4.000	mV	29.556	1254.000
RAL	FB Thresh Radial	4.000	mV	29.556	1254.000
RAL	Fluid Travel Time	200.000	usec/ft	29.556	1253.900

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	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	-11.360	AFAR	SIG	TT5			
2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

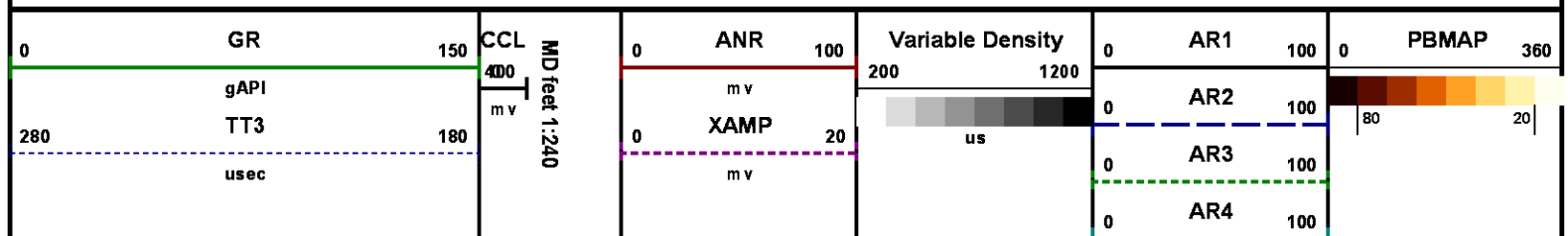
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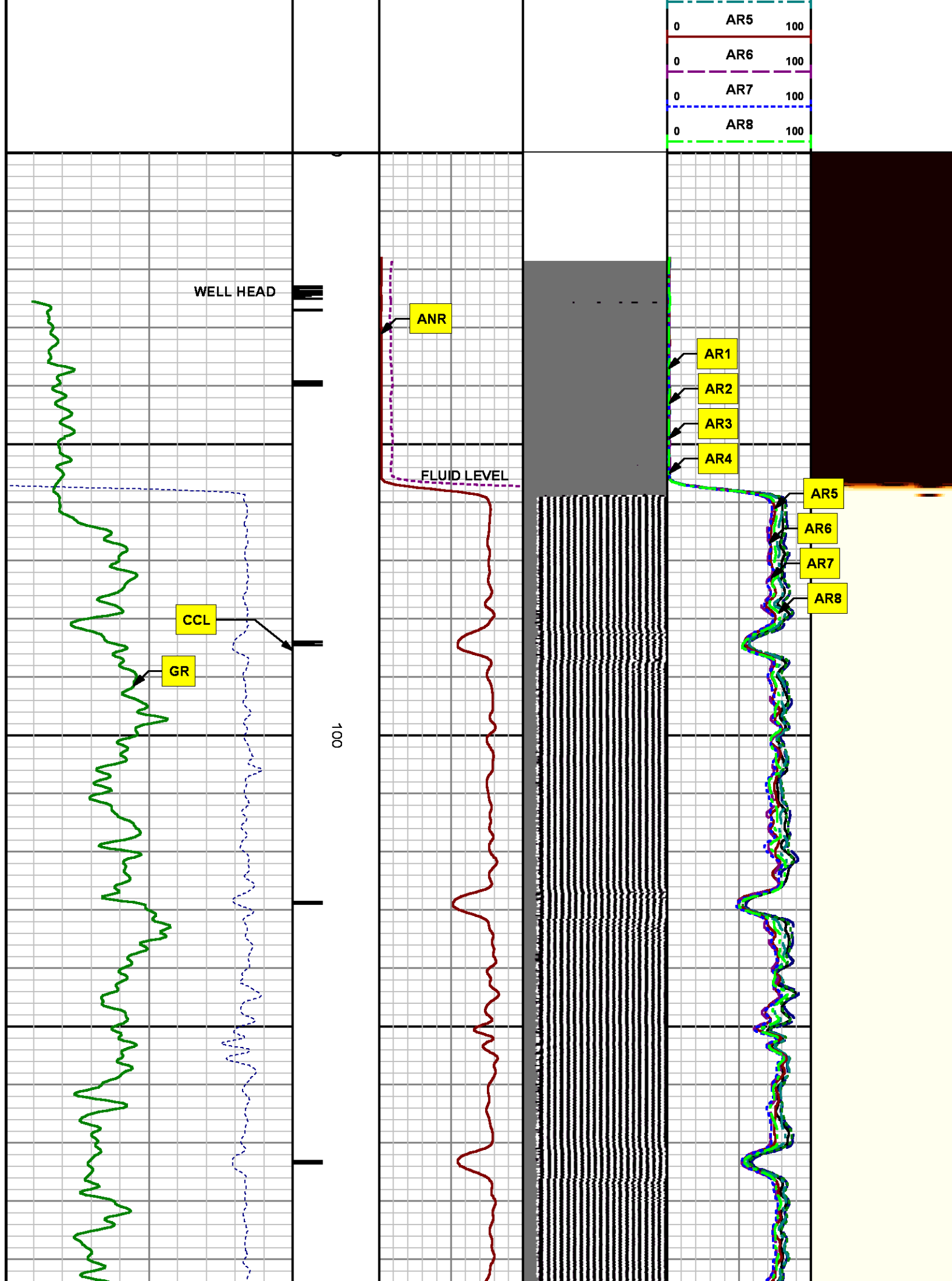
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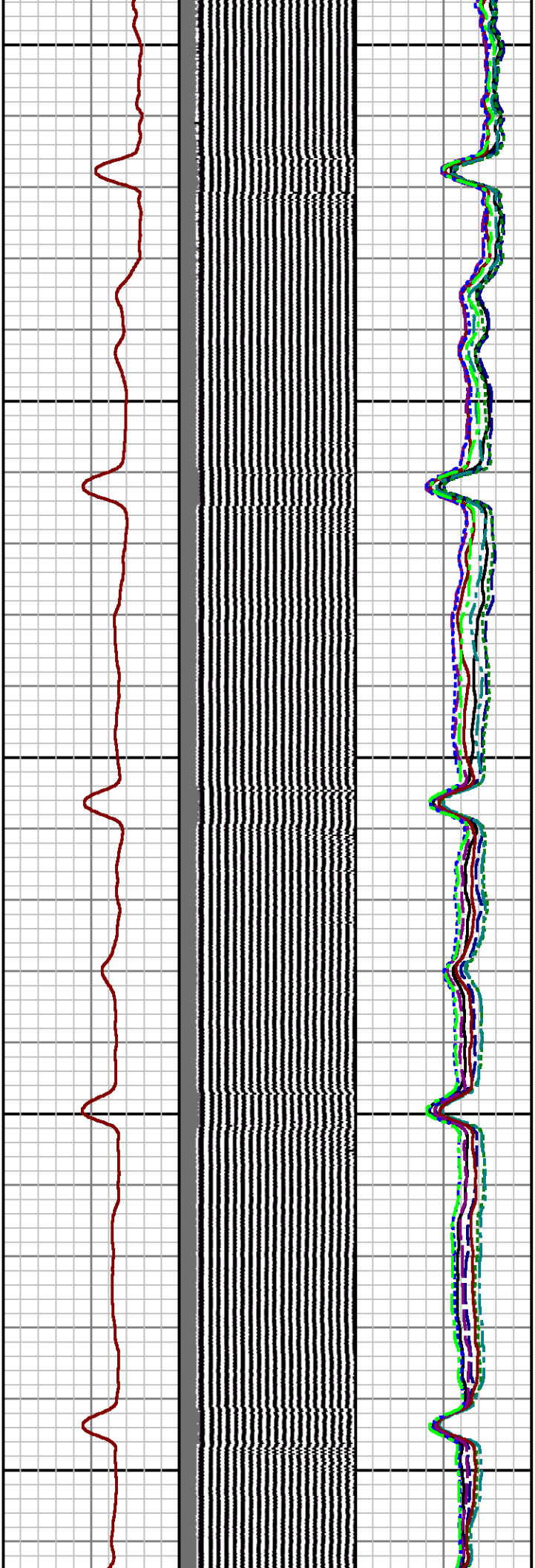
Interval : 0.00 - 5993.25 feet UP

Created : 7/22/2014 5:12:00 PM



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0	AR6	100
0	AR7	100
0	AR8	100

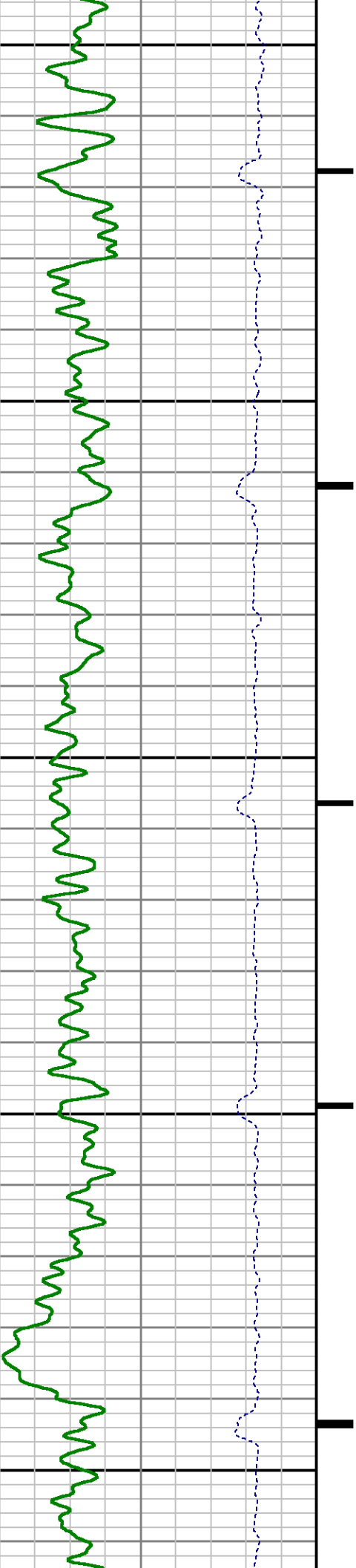


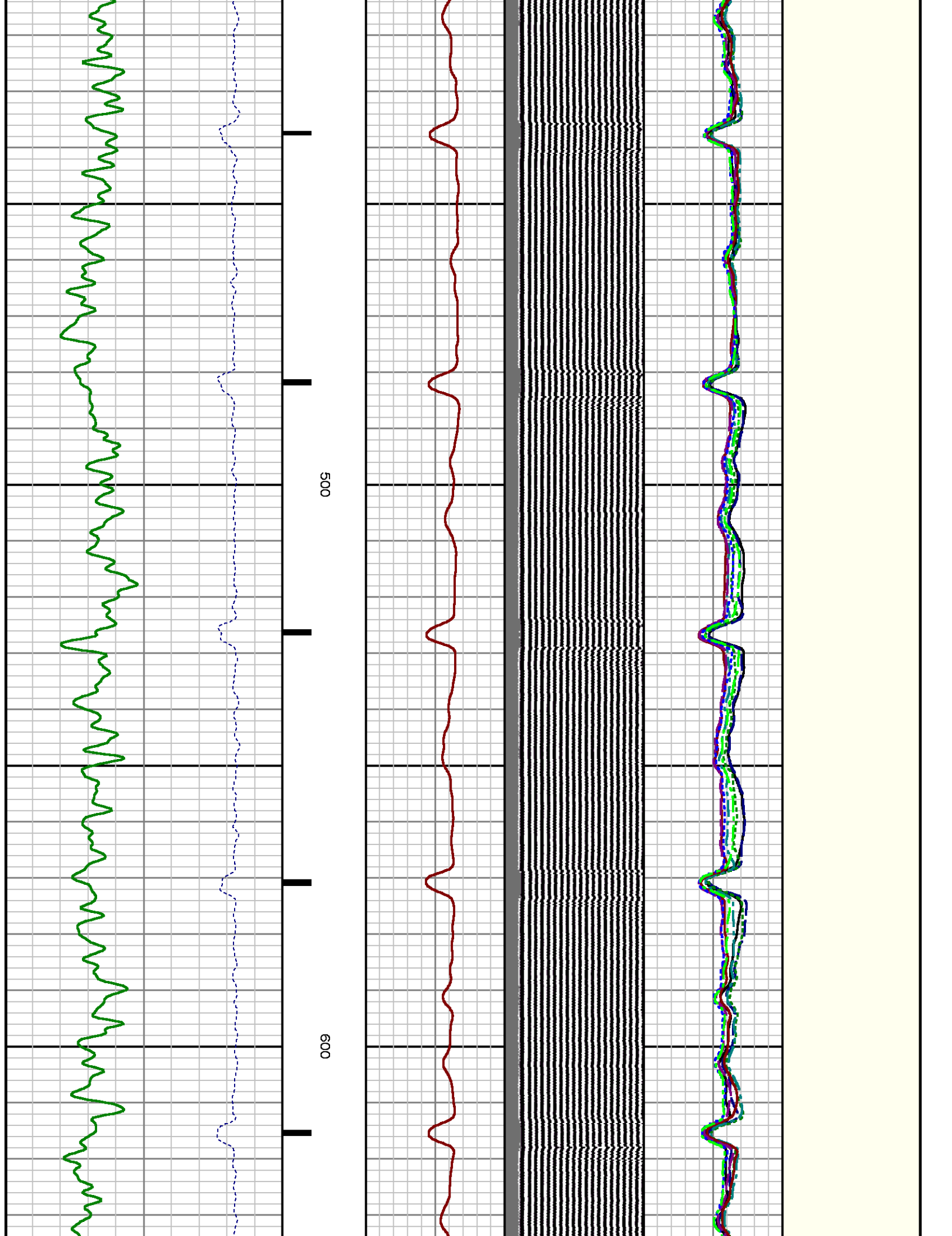


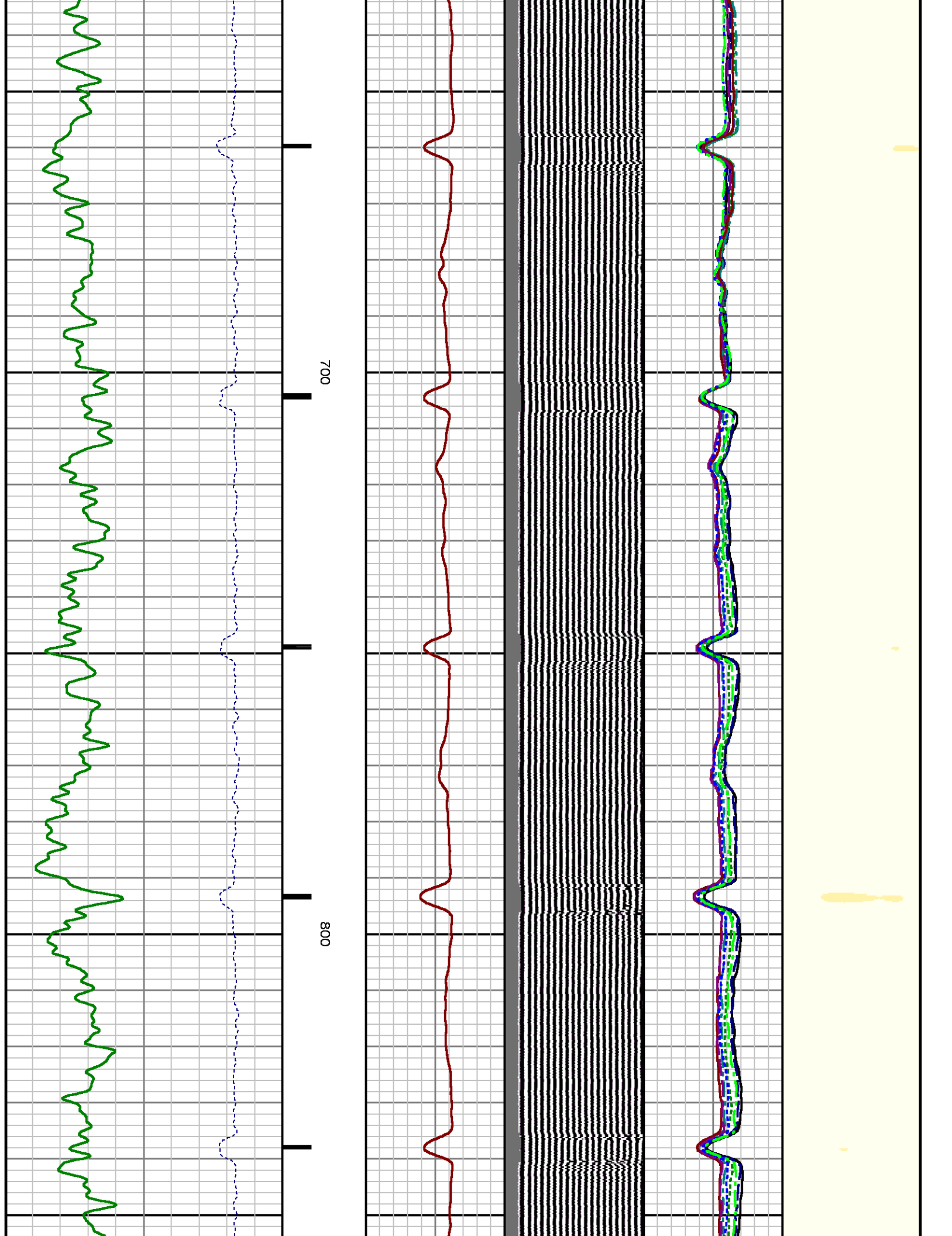
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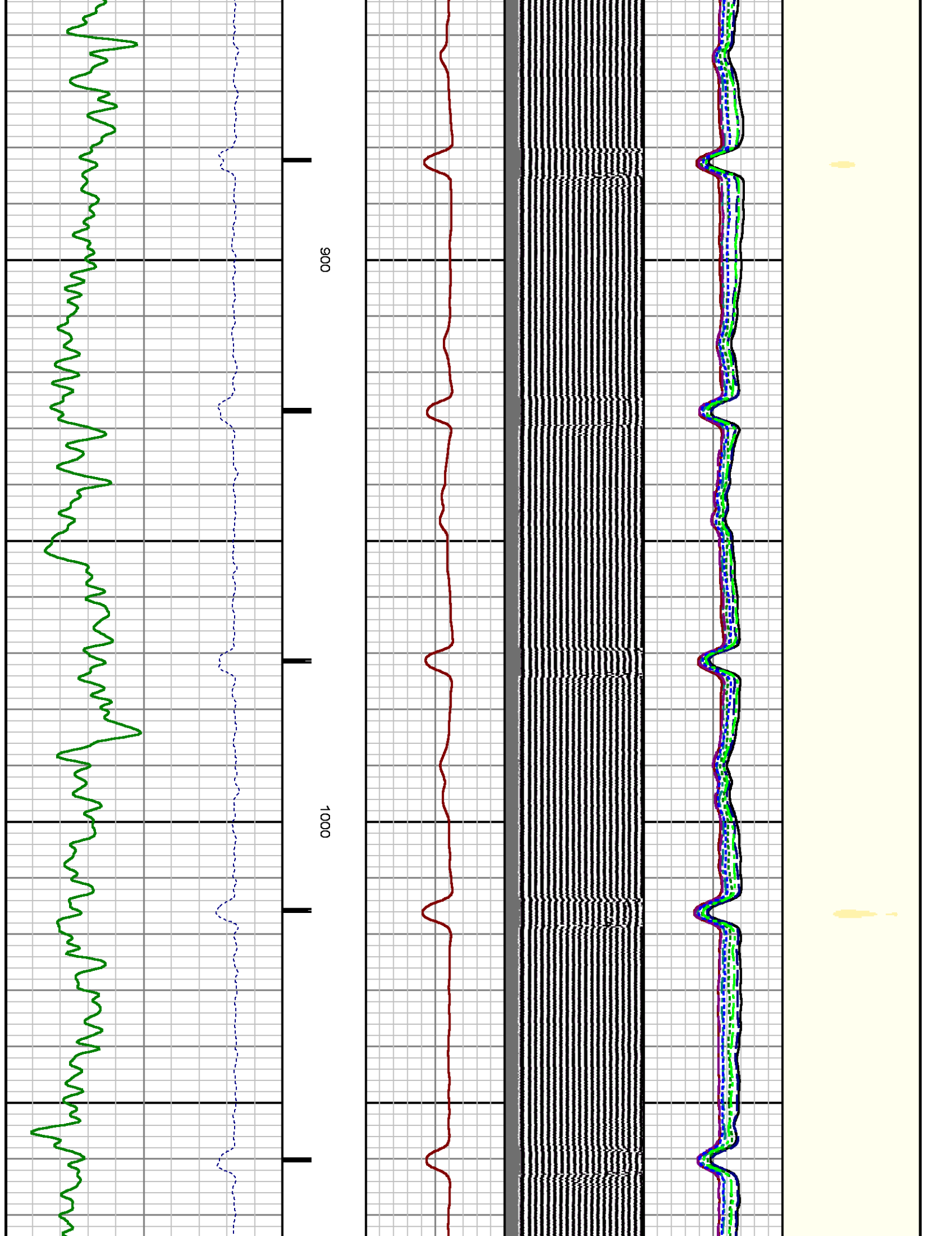
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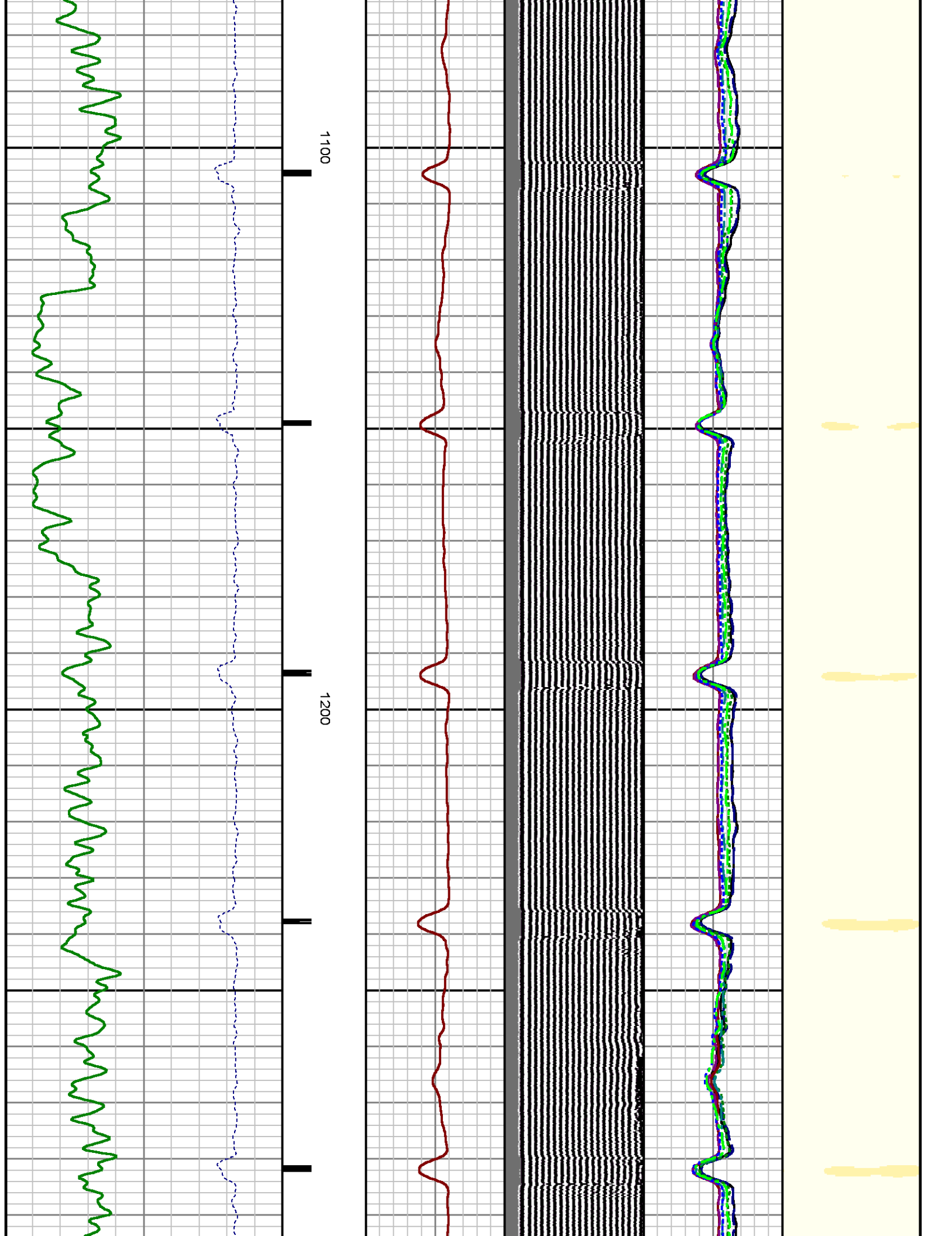
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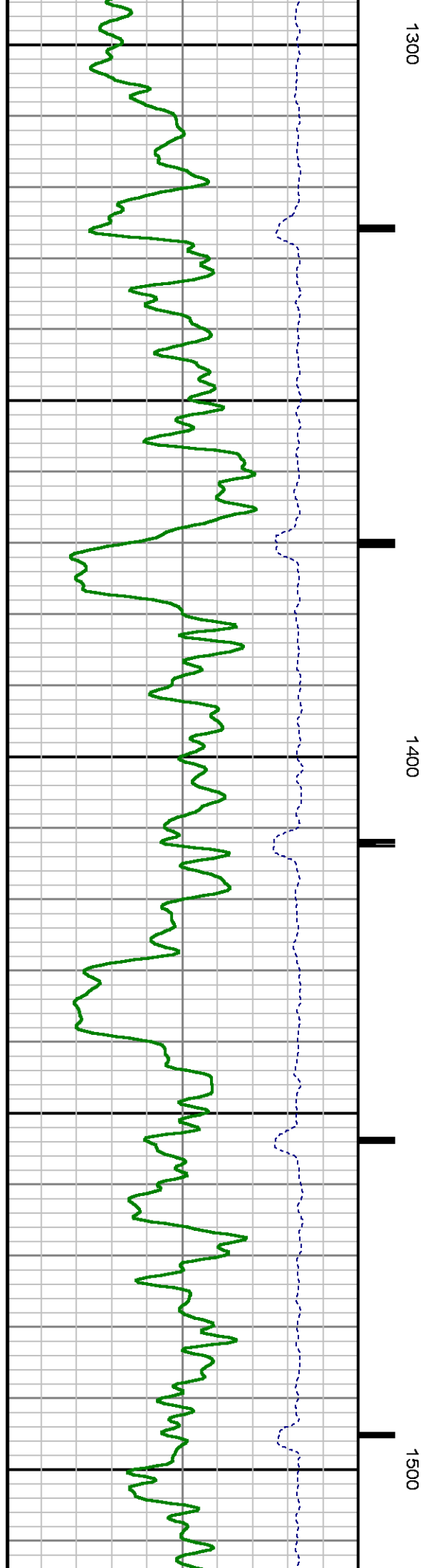
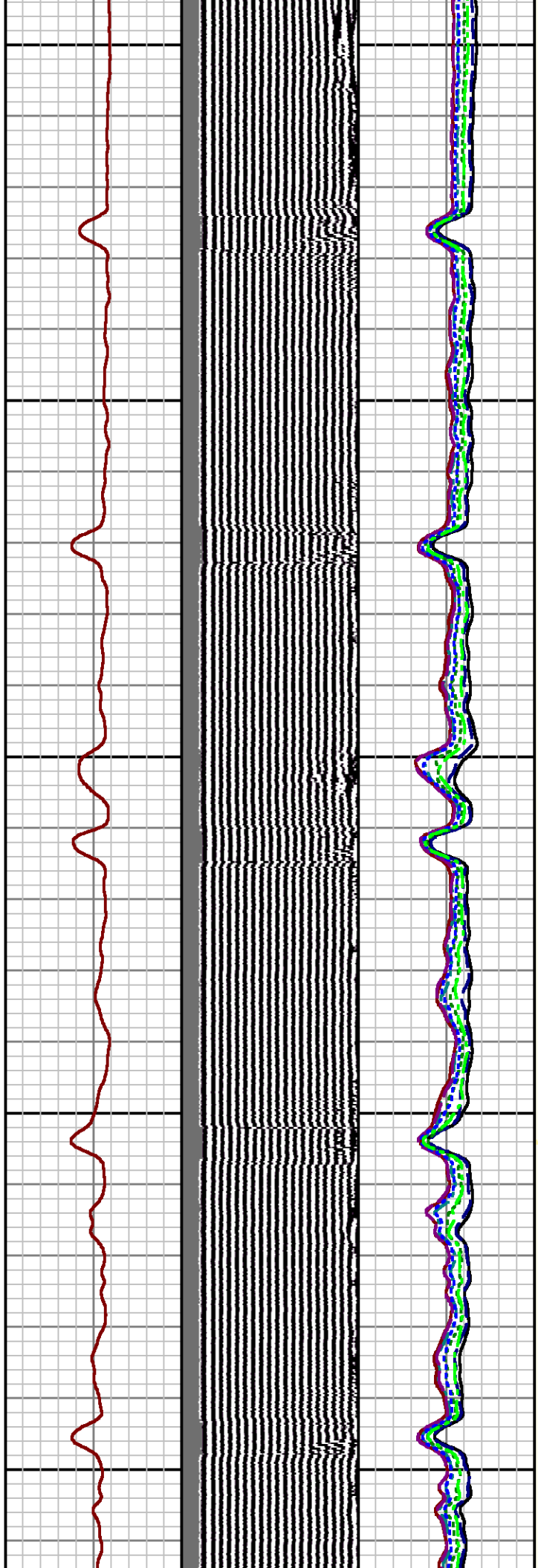
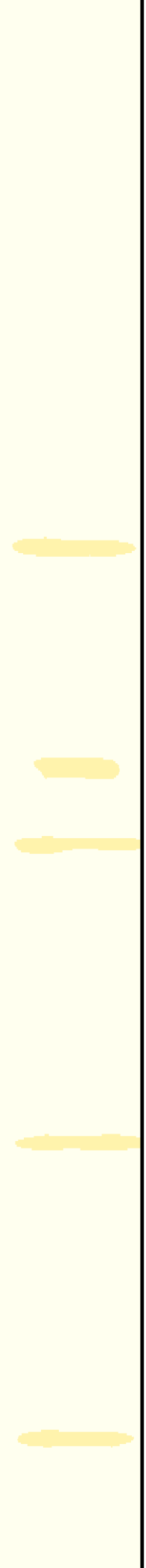


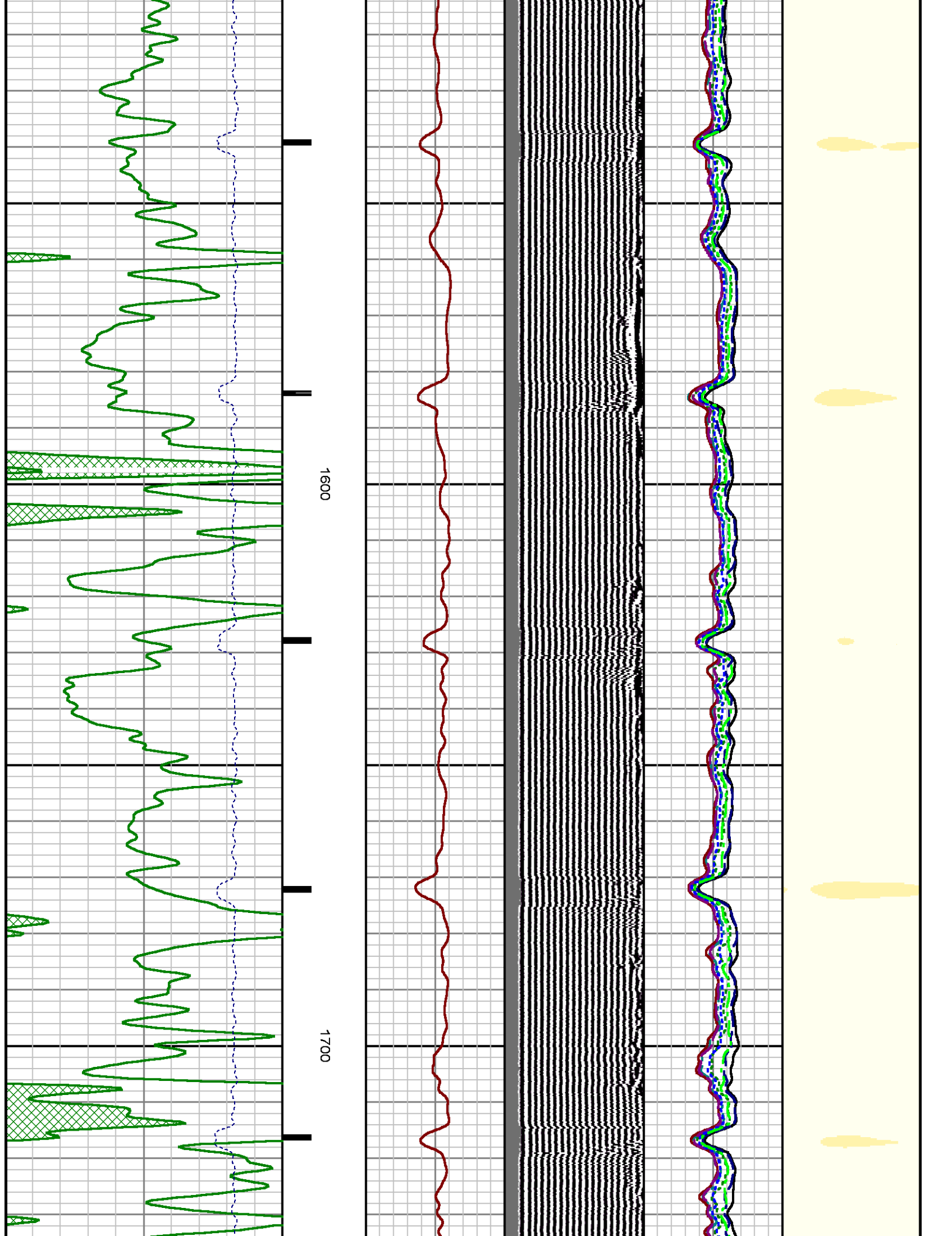


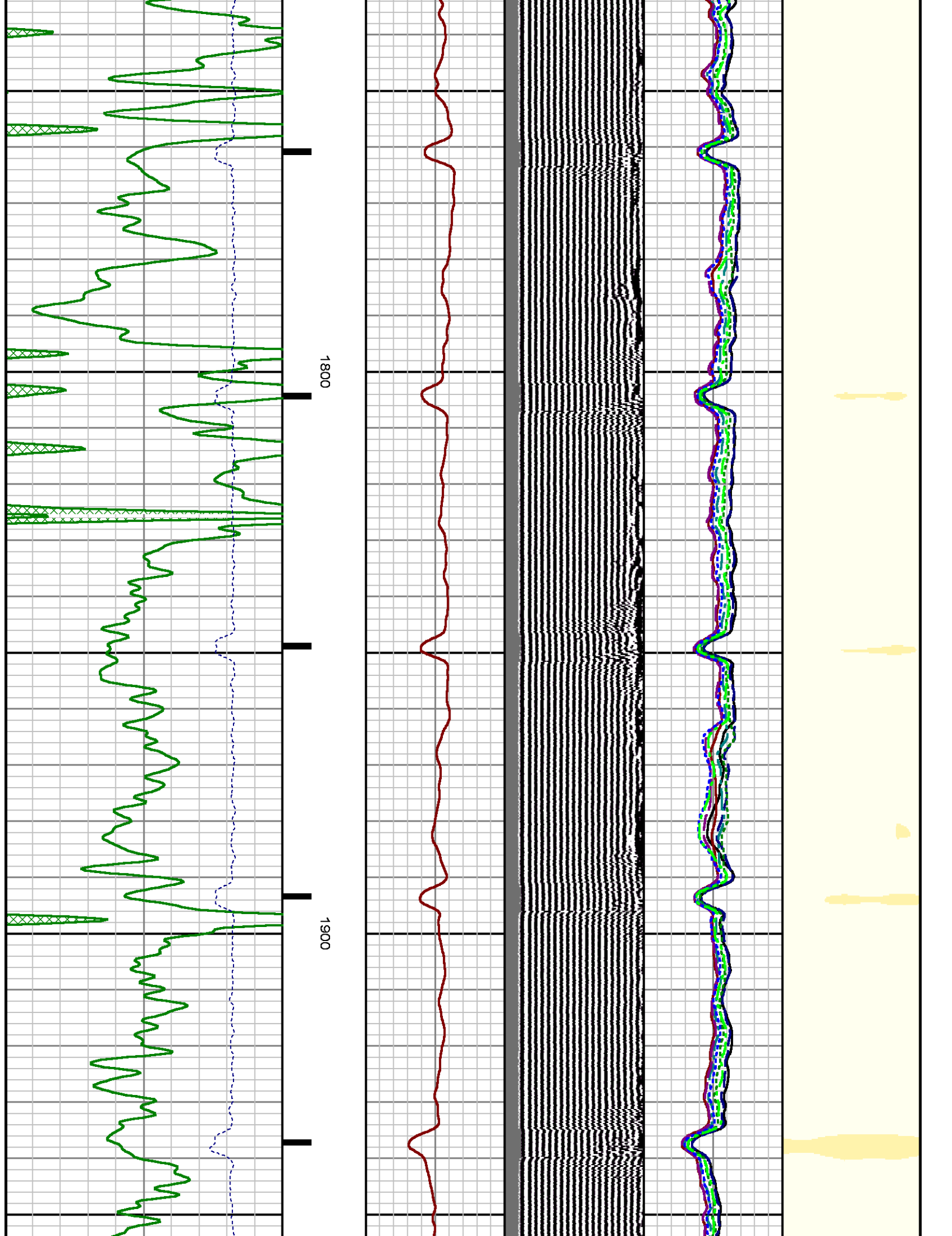


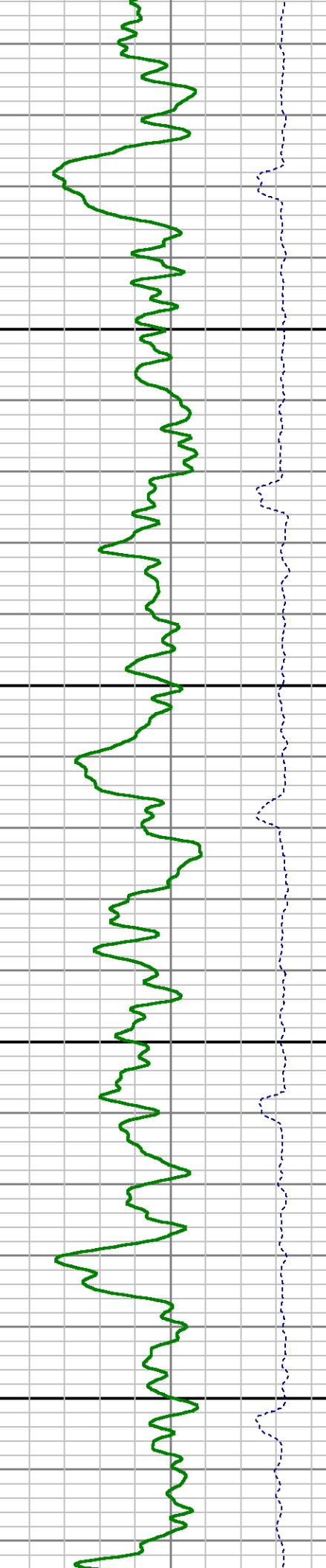
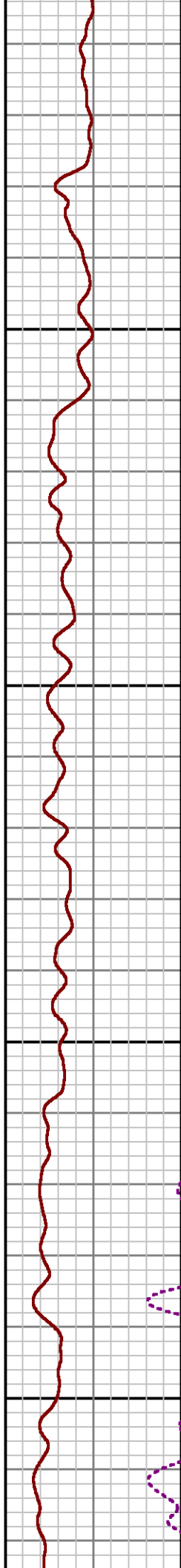
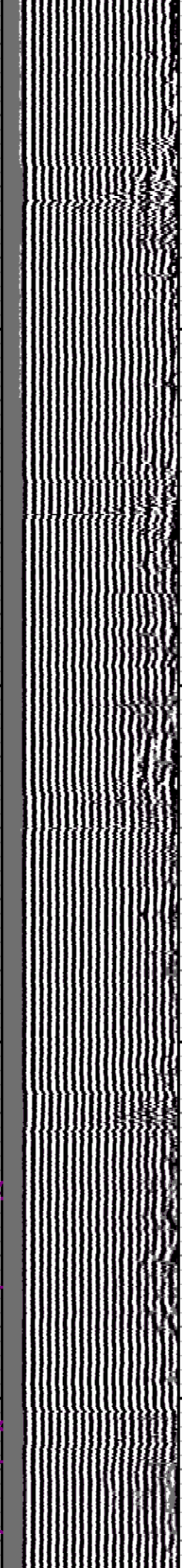
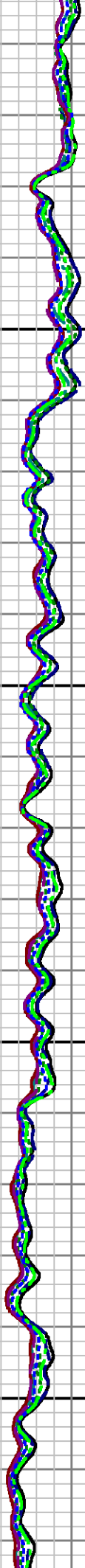
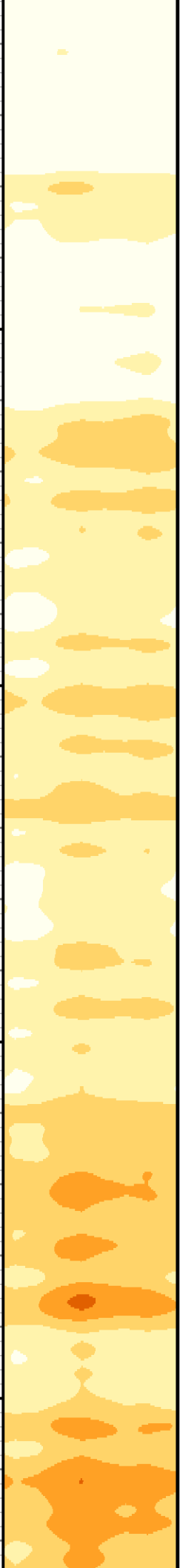


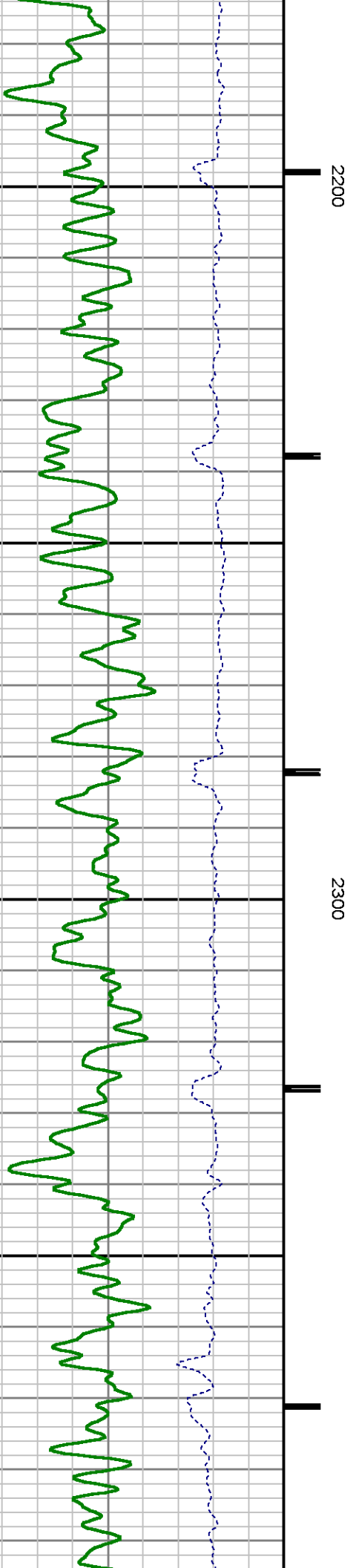
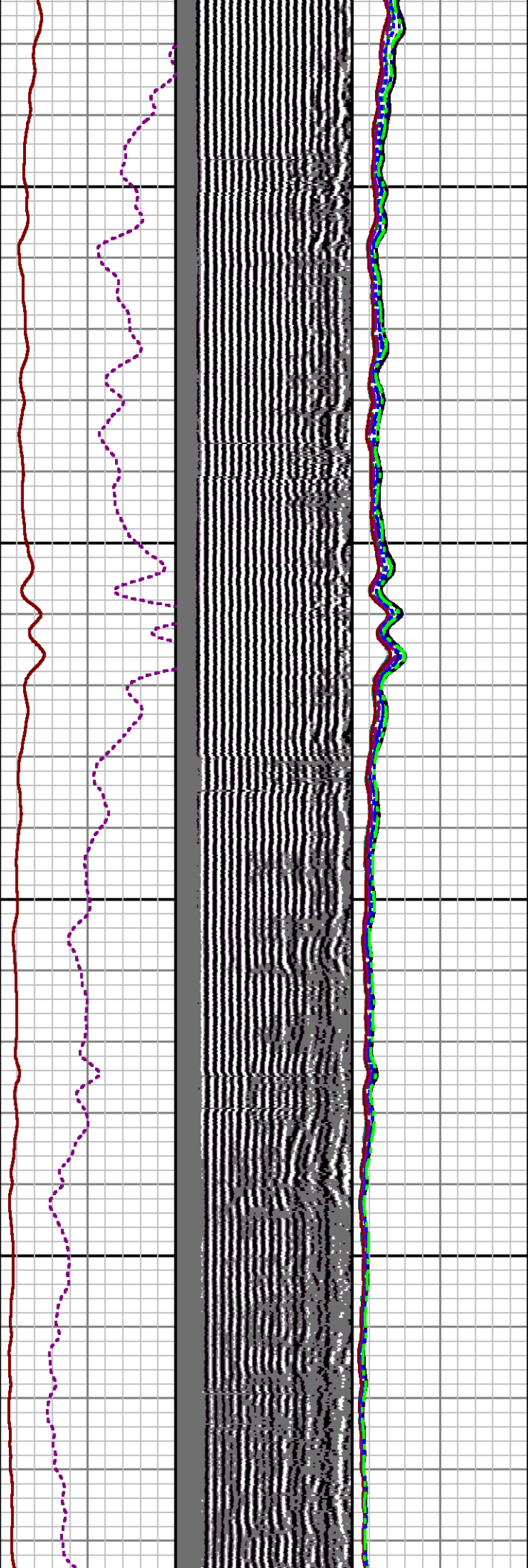
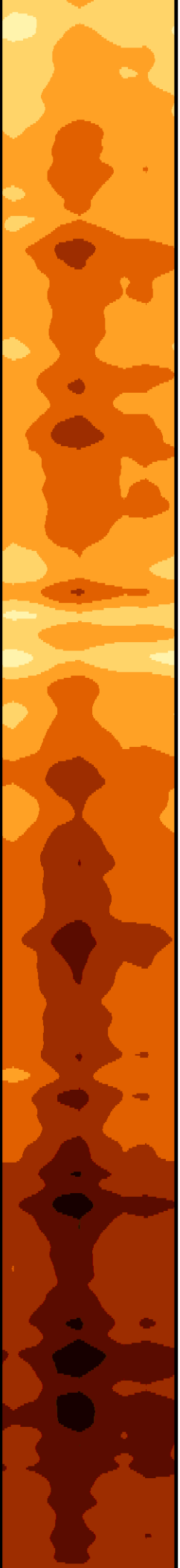


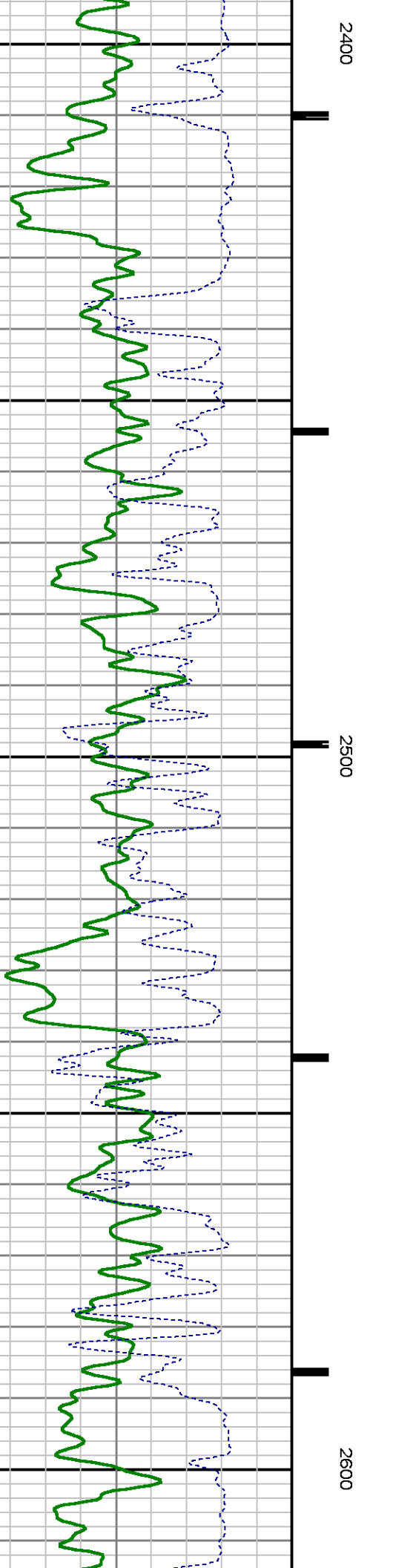
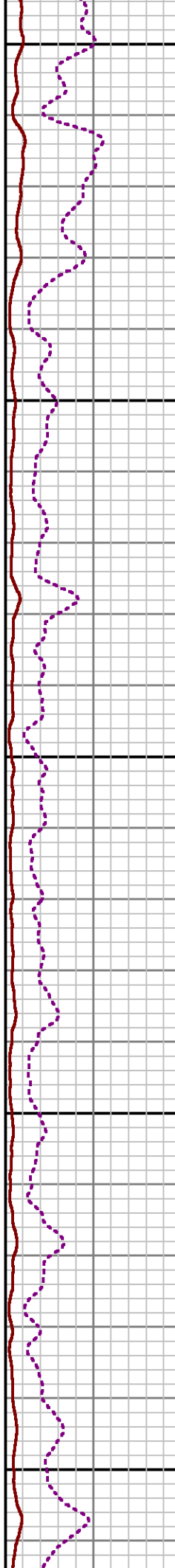
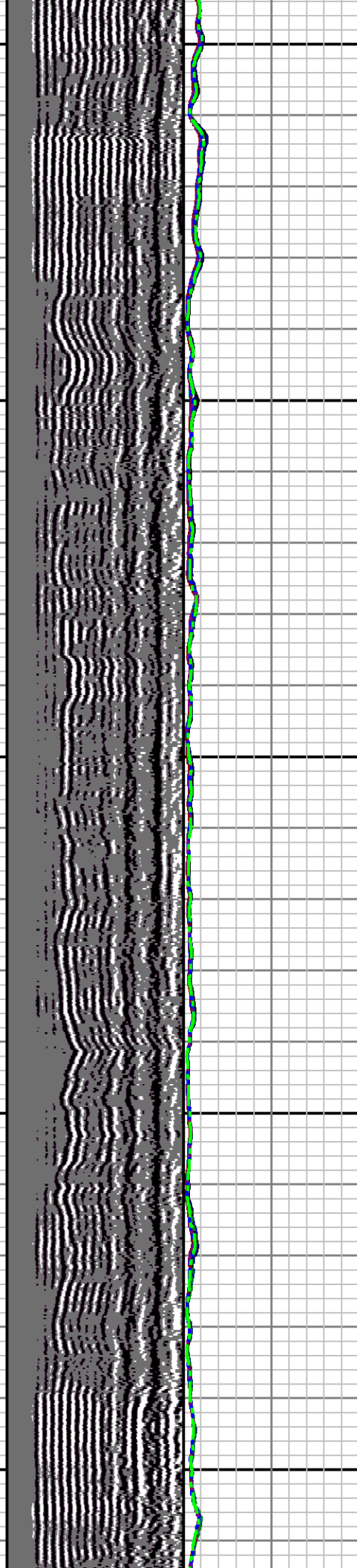
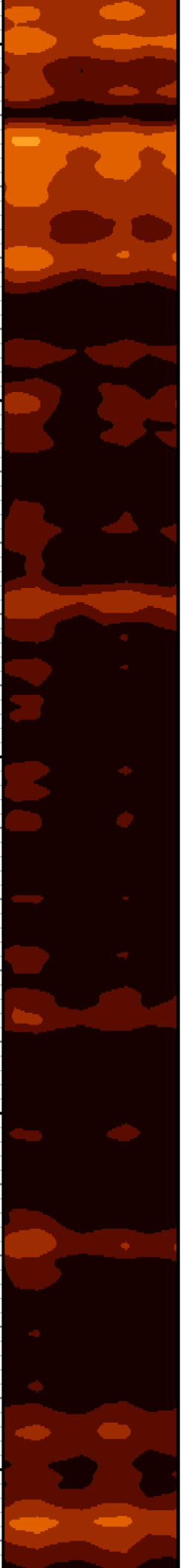


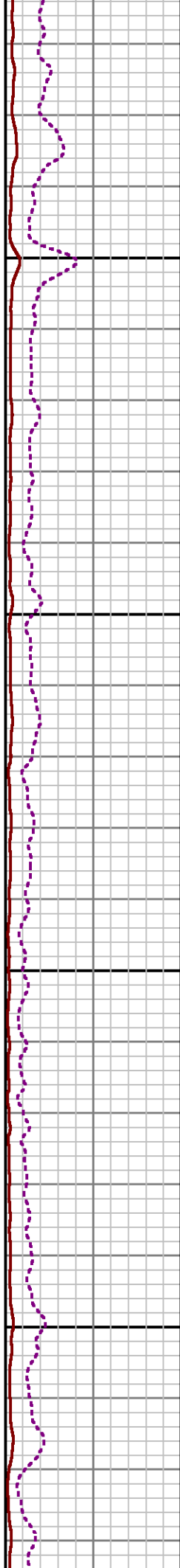
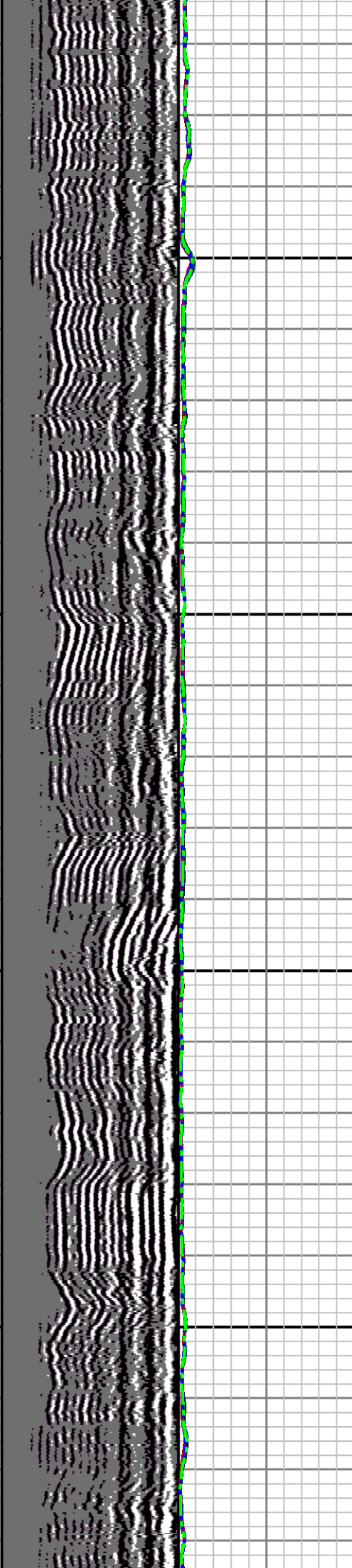
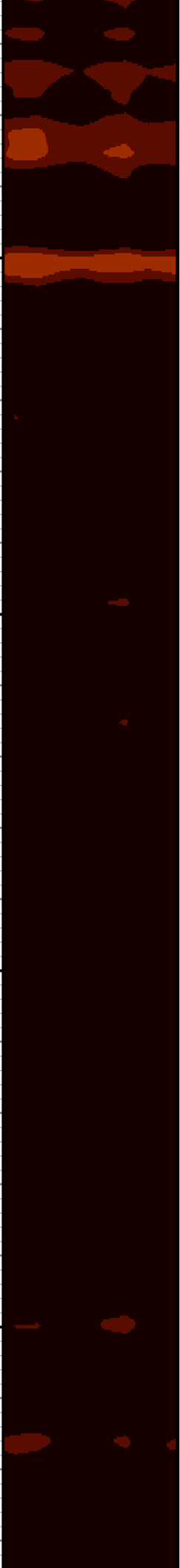






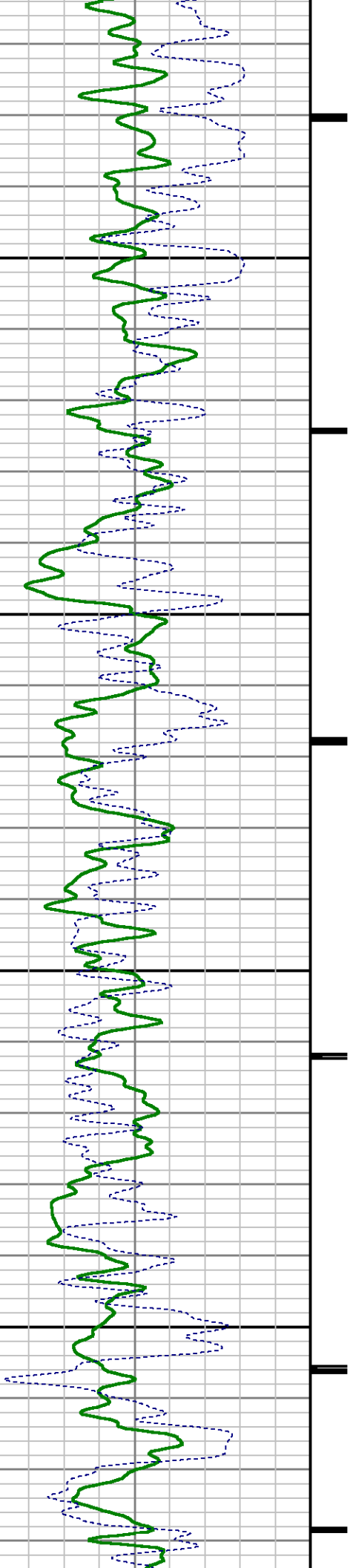


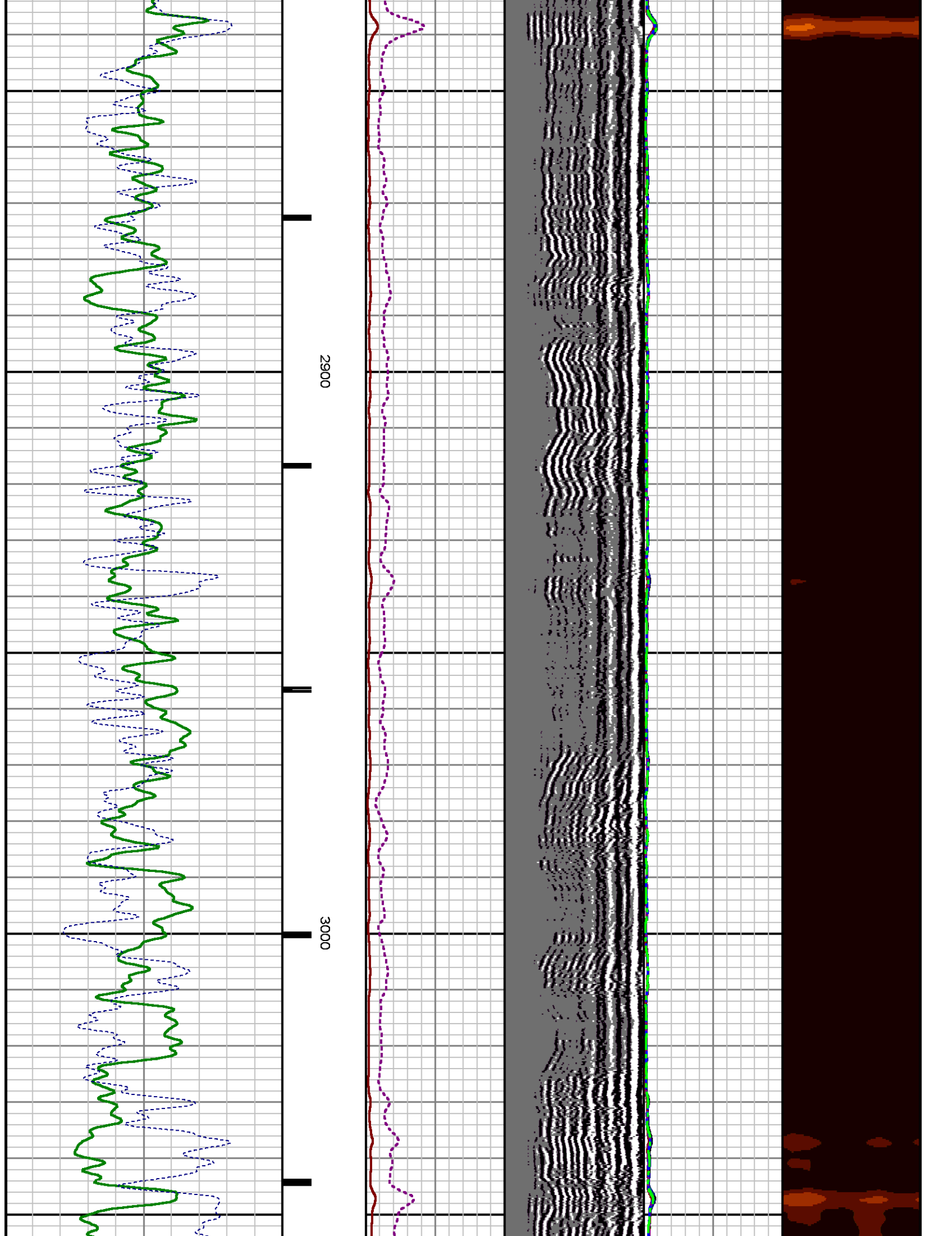


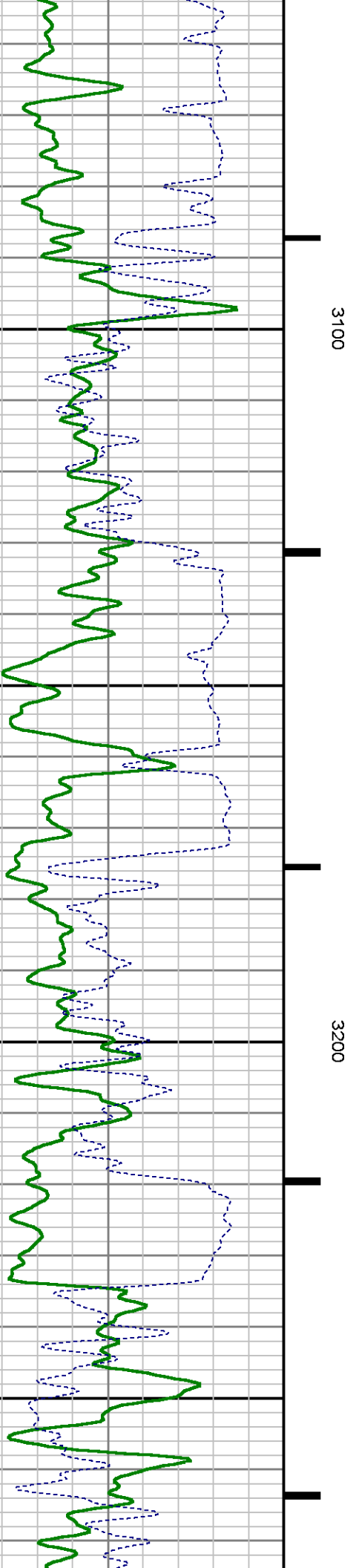
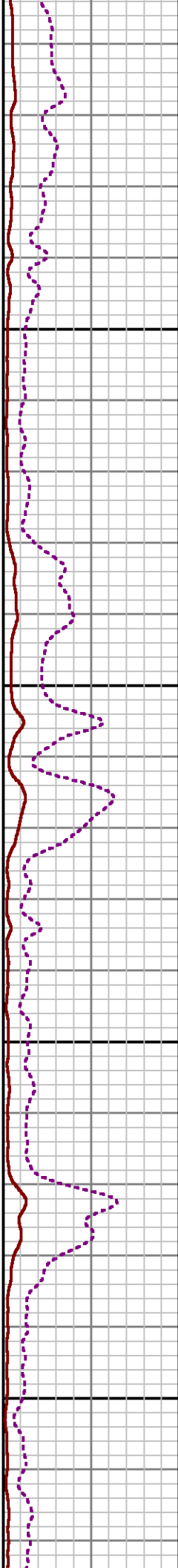
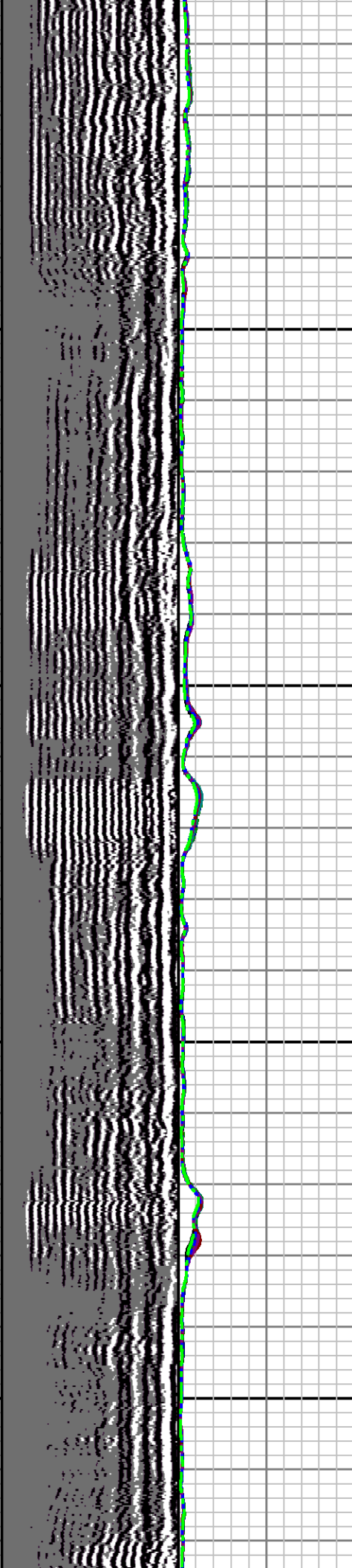
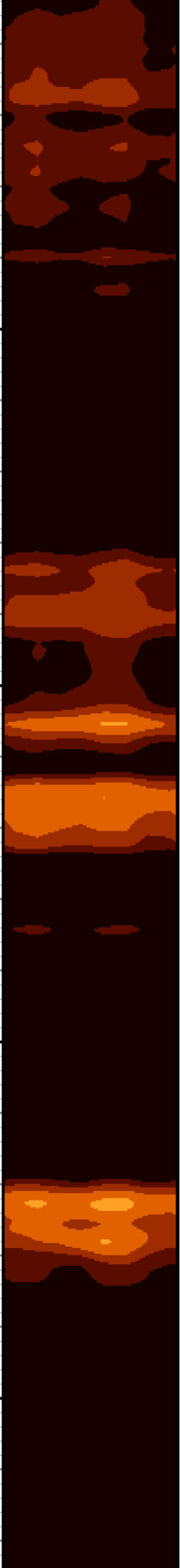


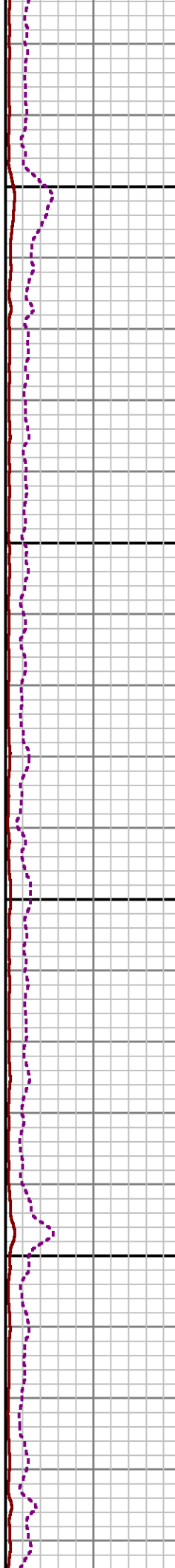
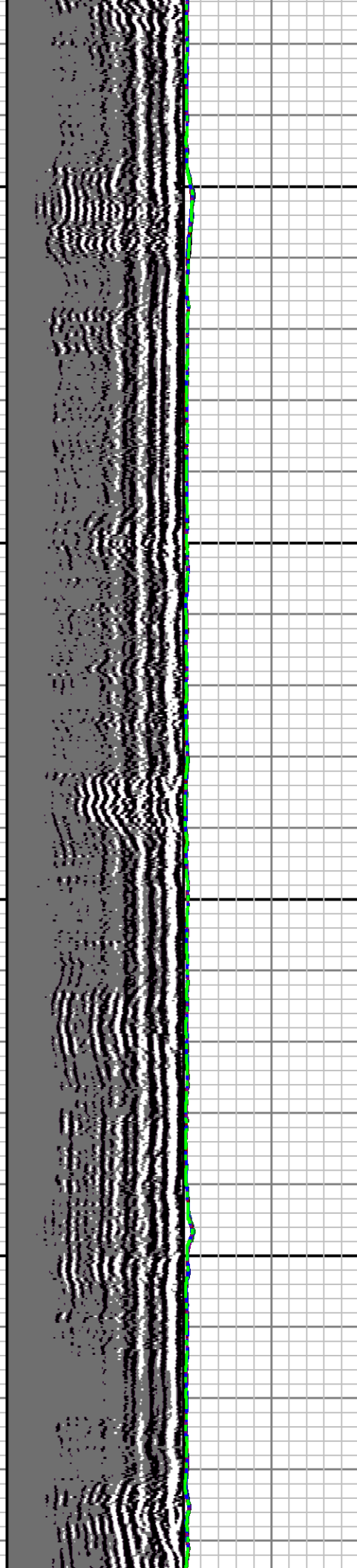
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2800



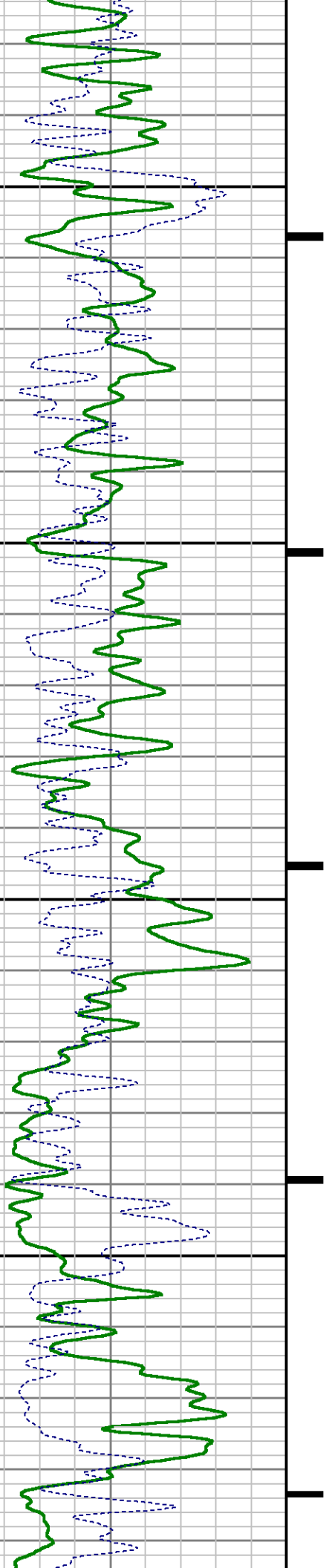


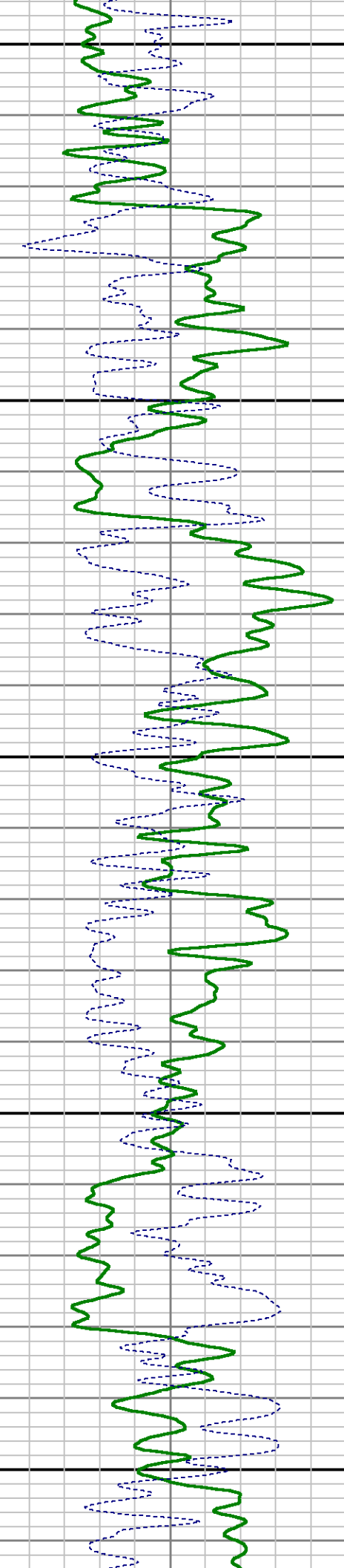
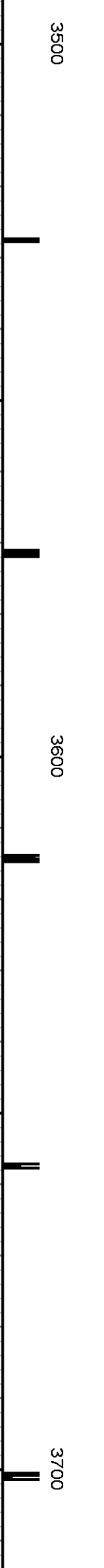
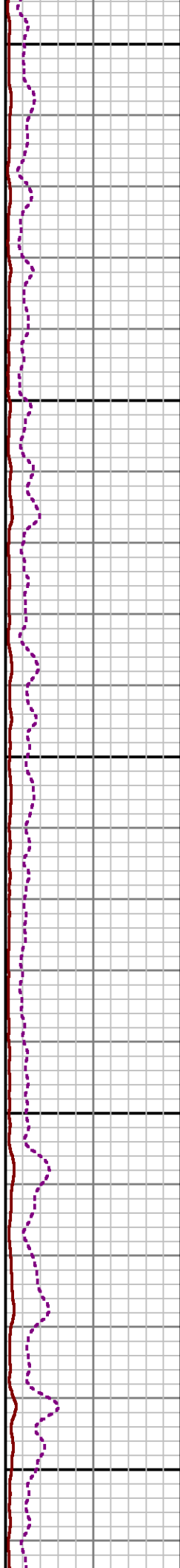
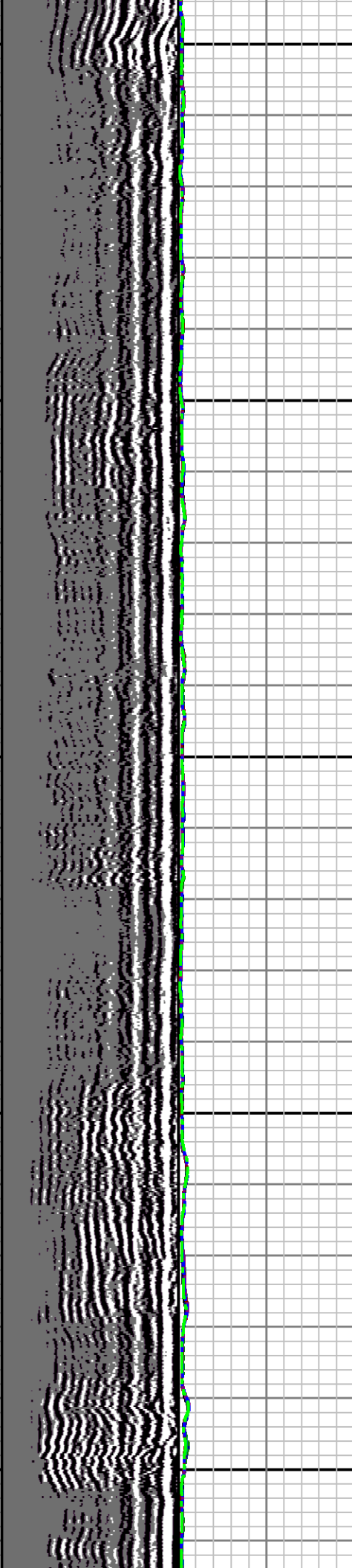


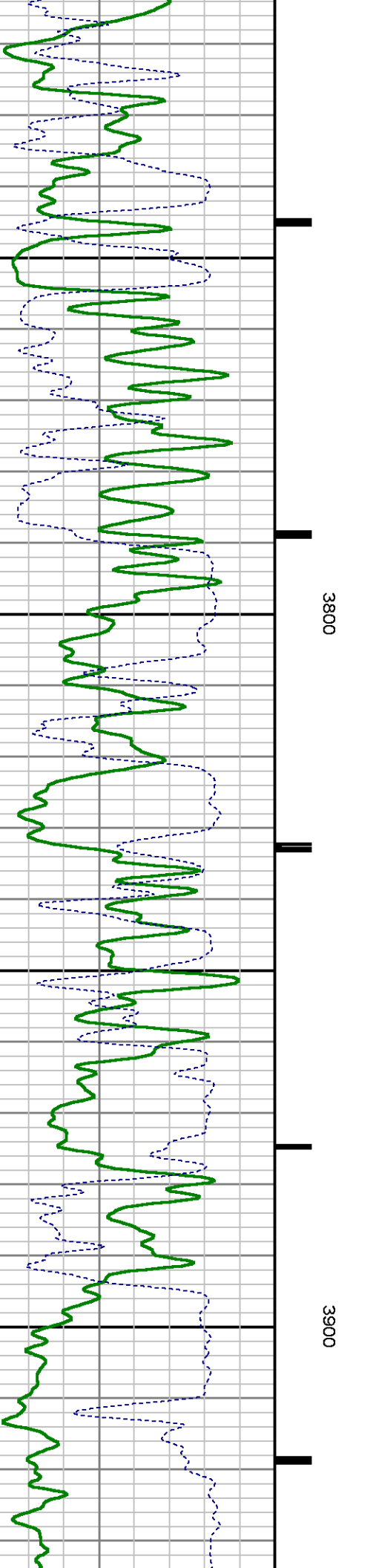
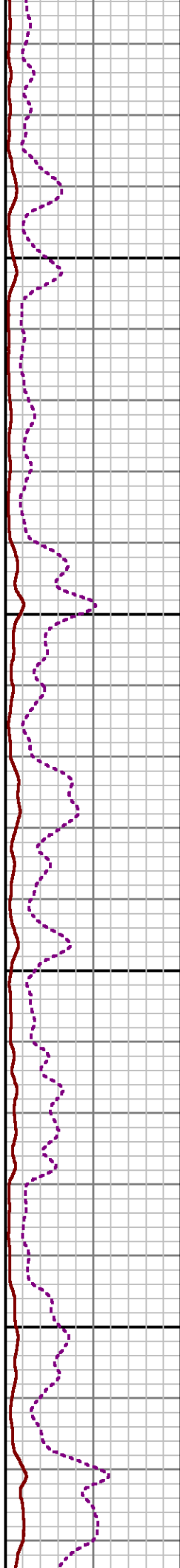
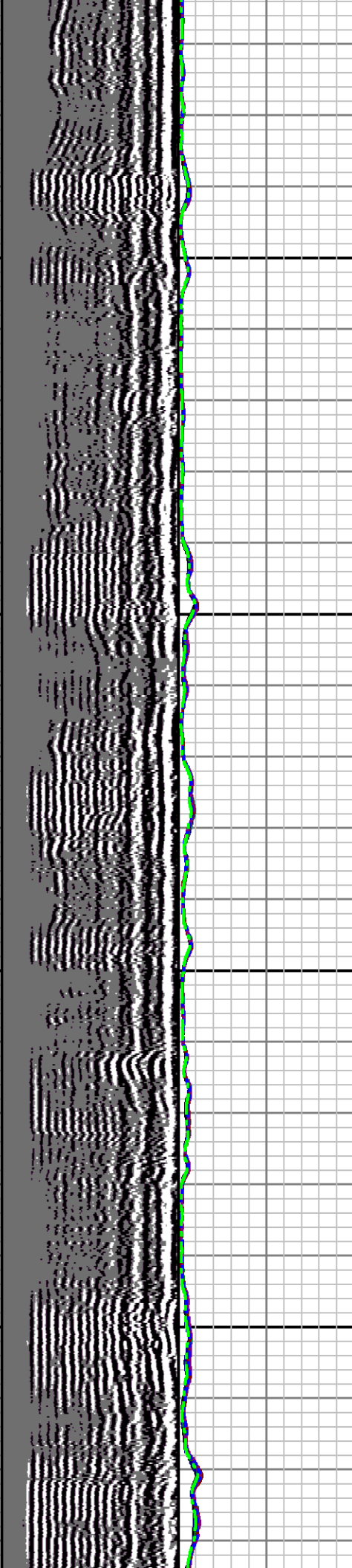


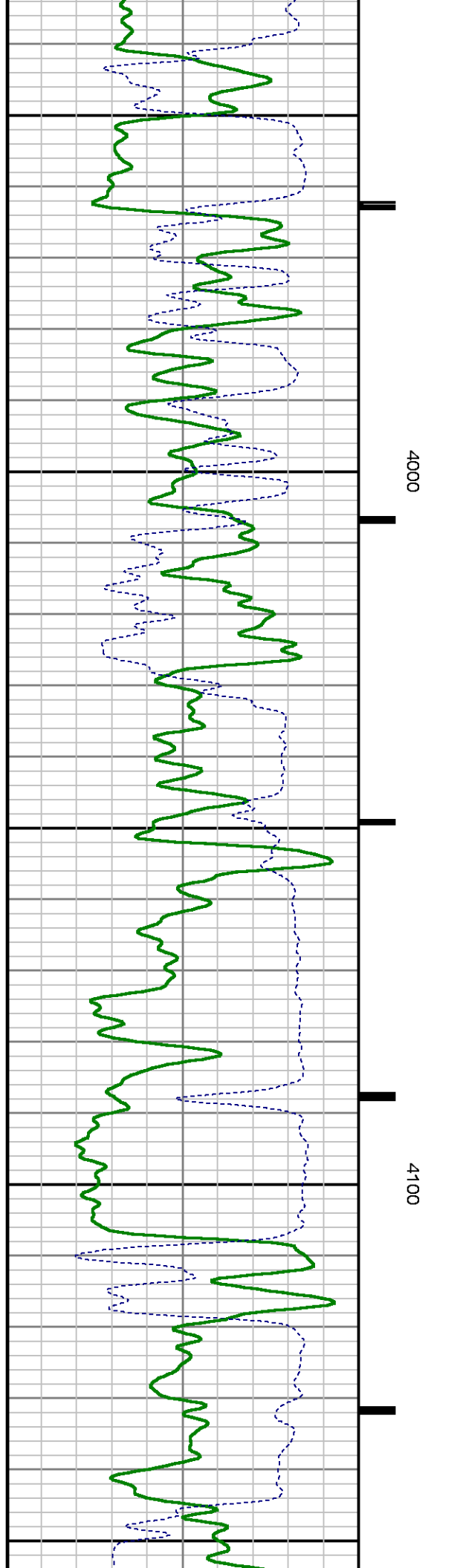
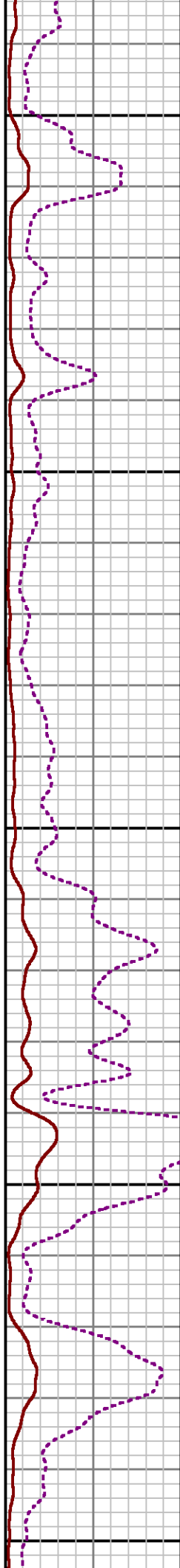
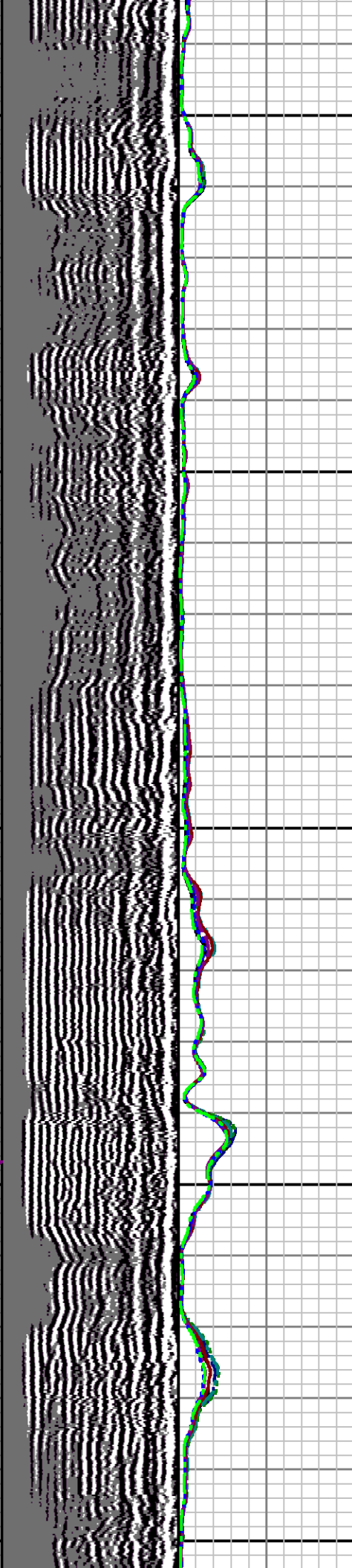
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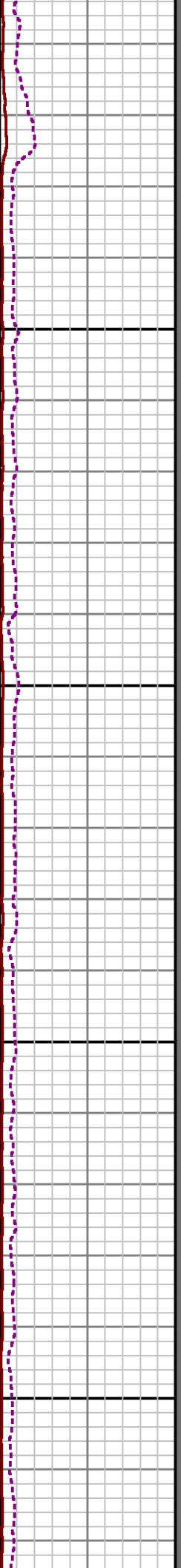
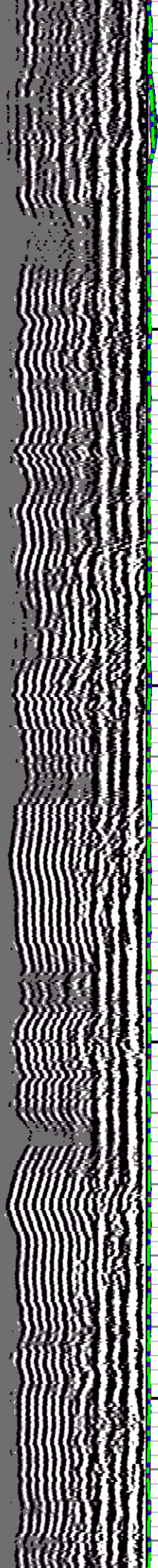
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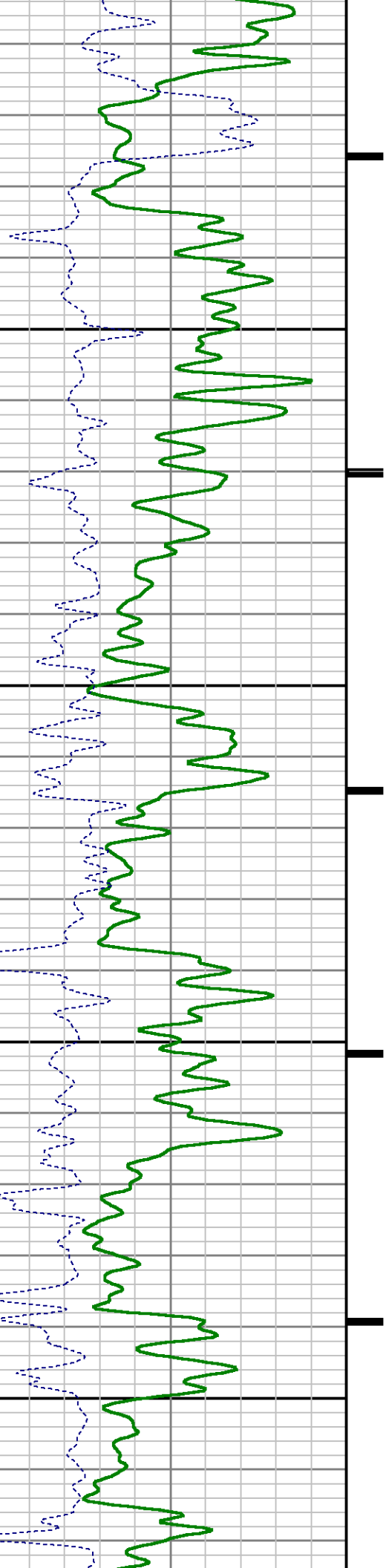


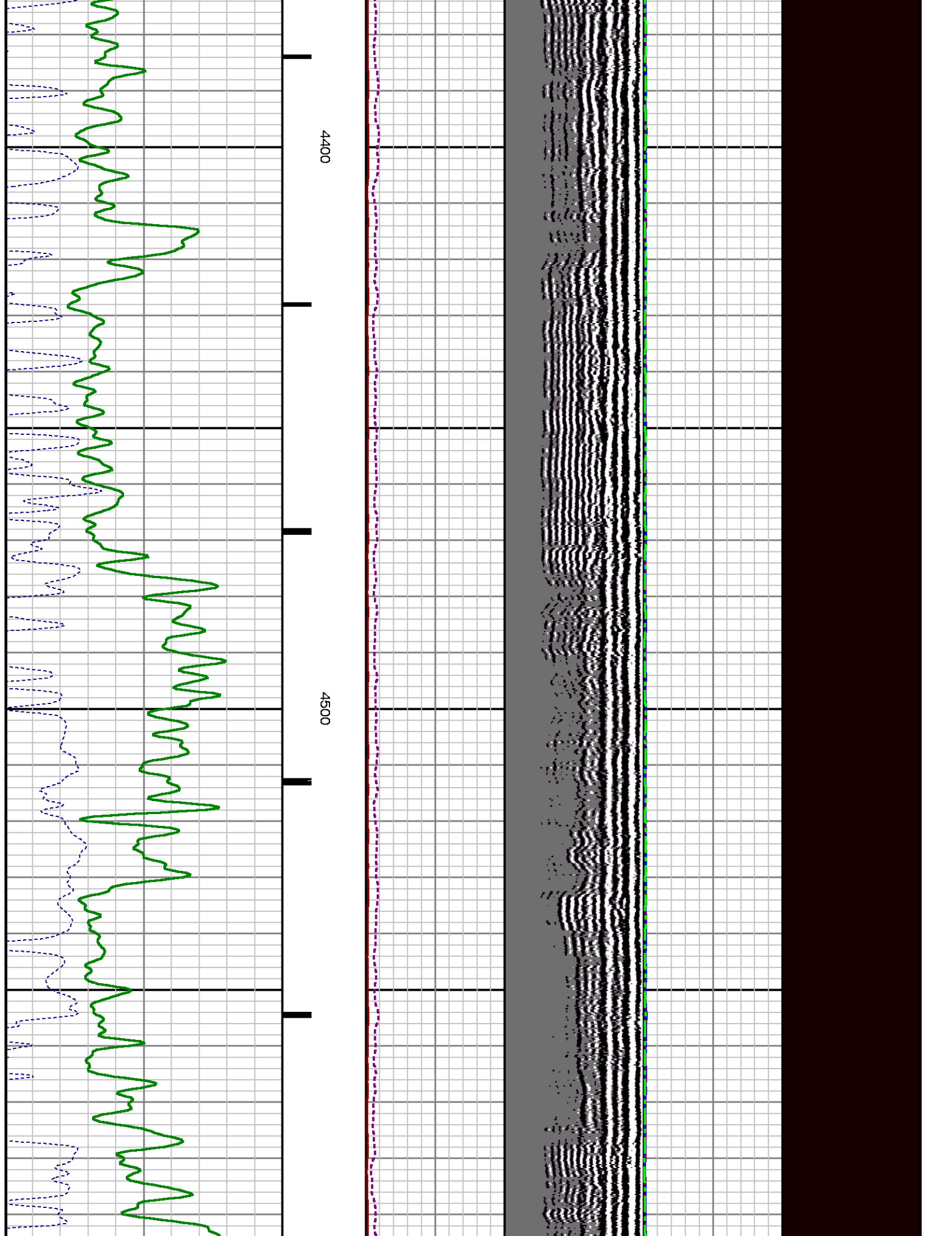


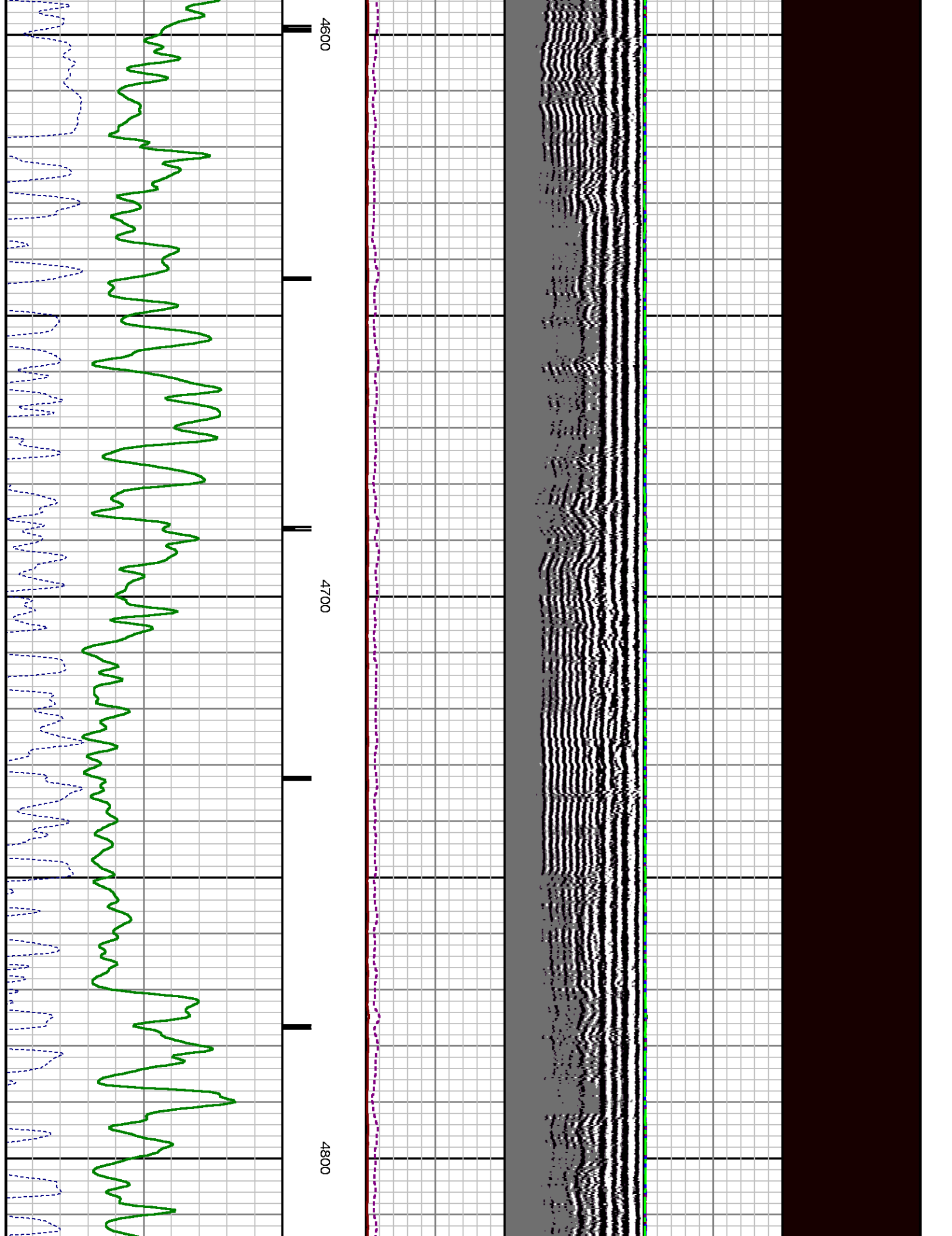


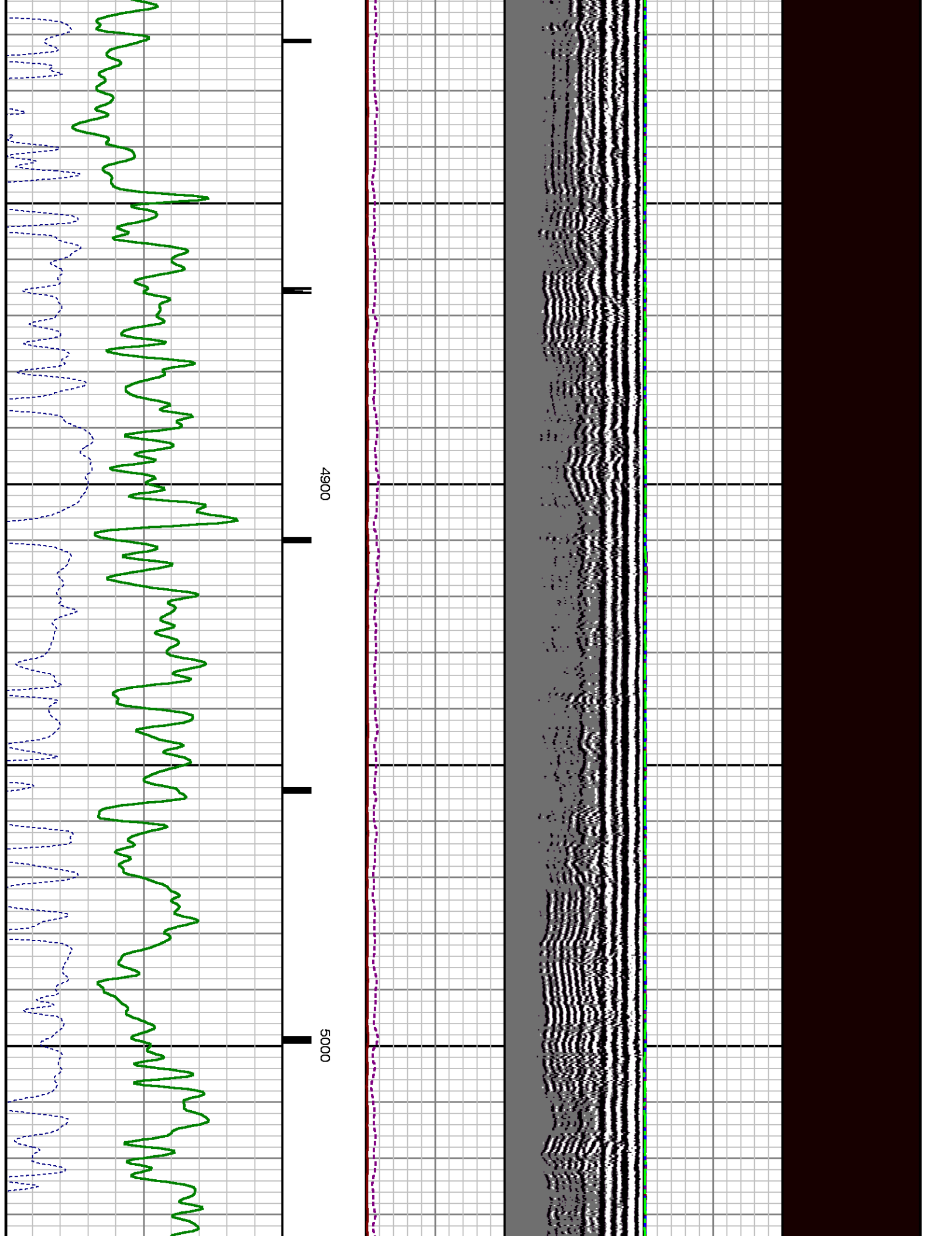
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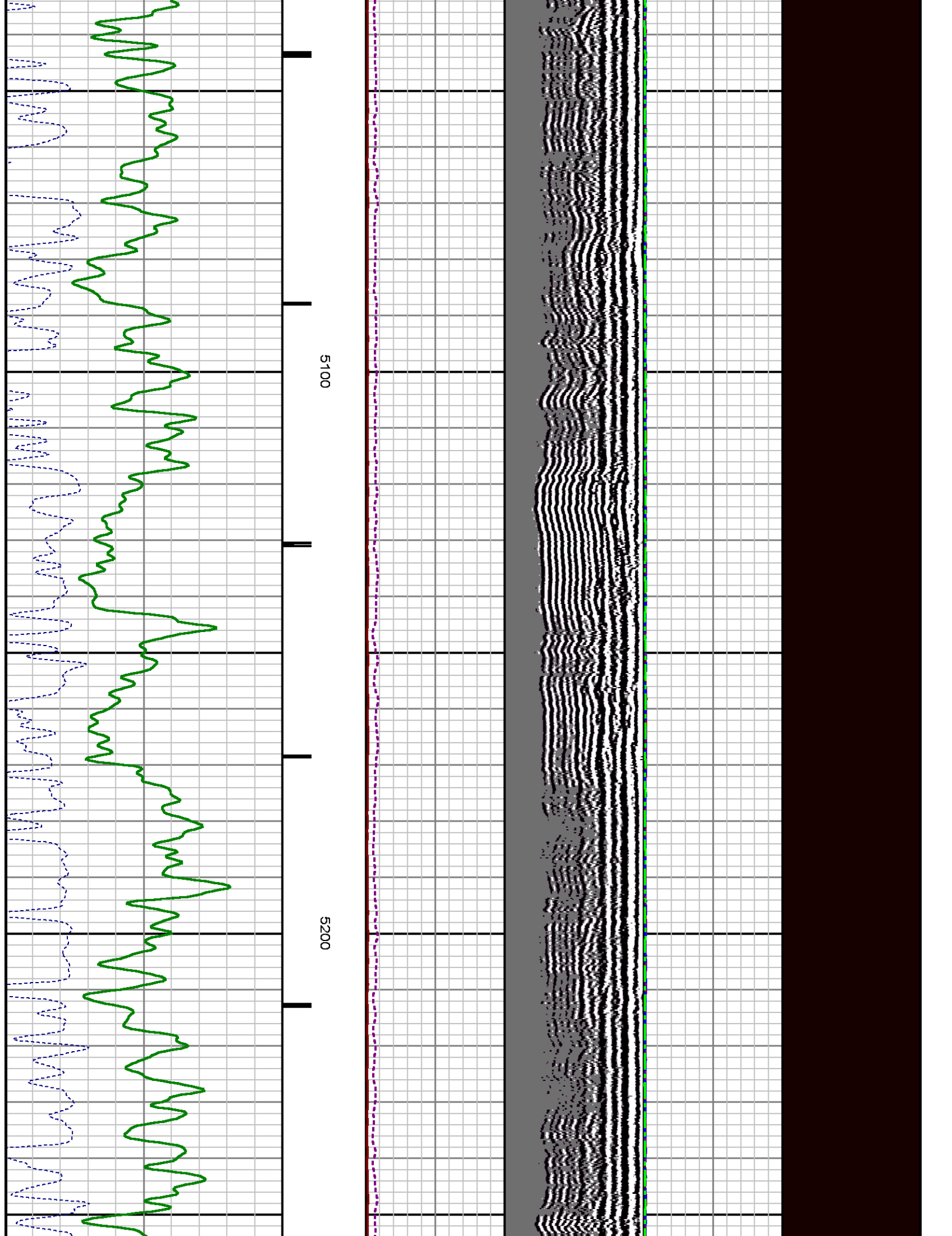
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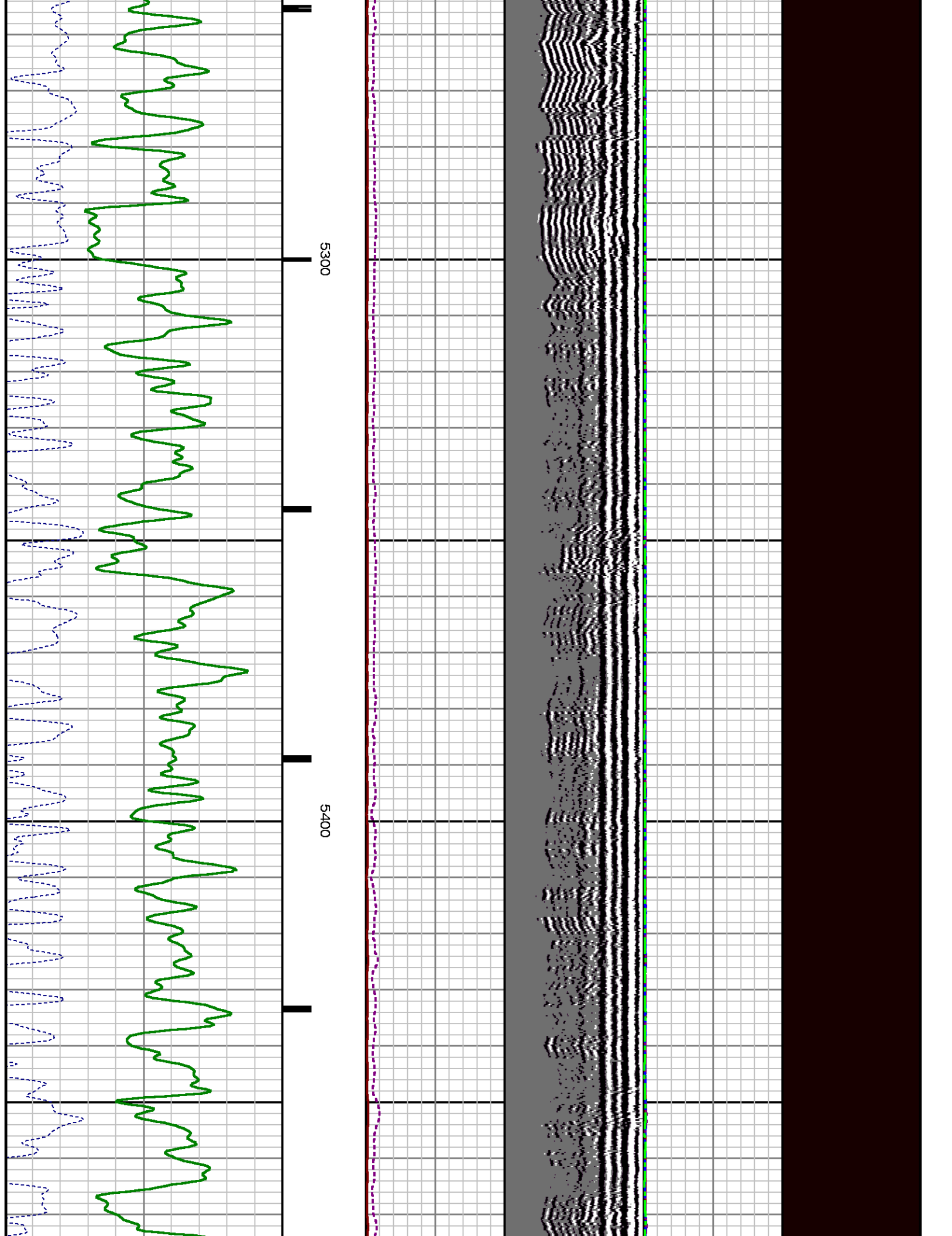


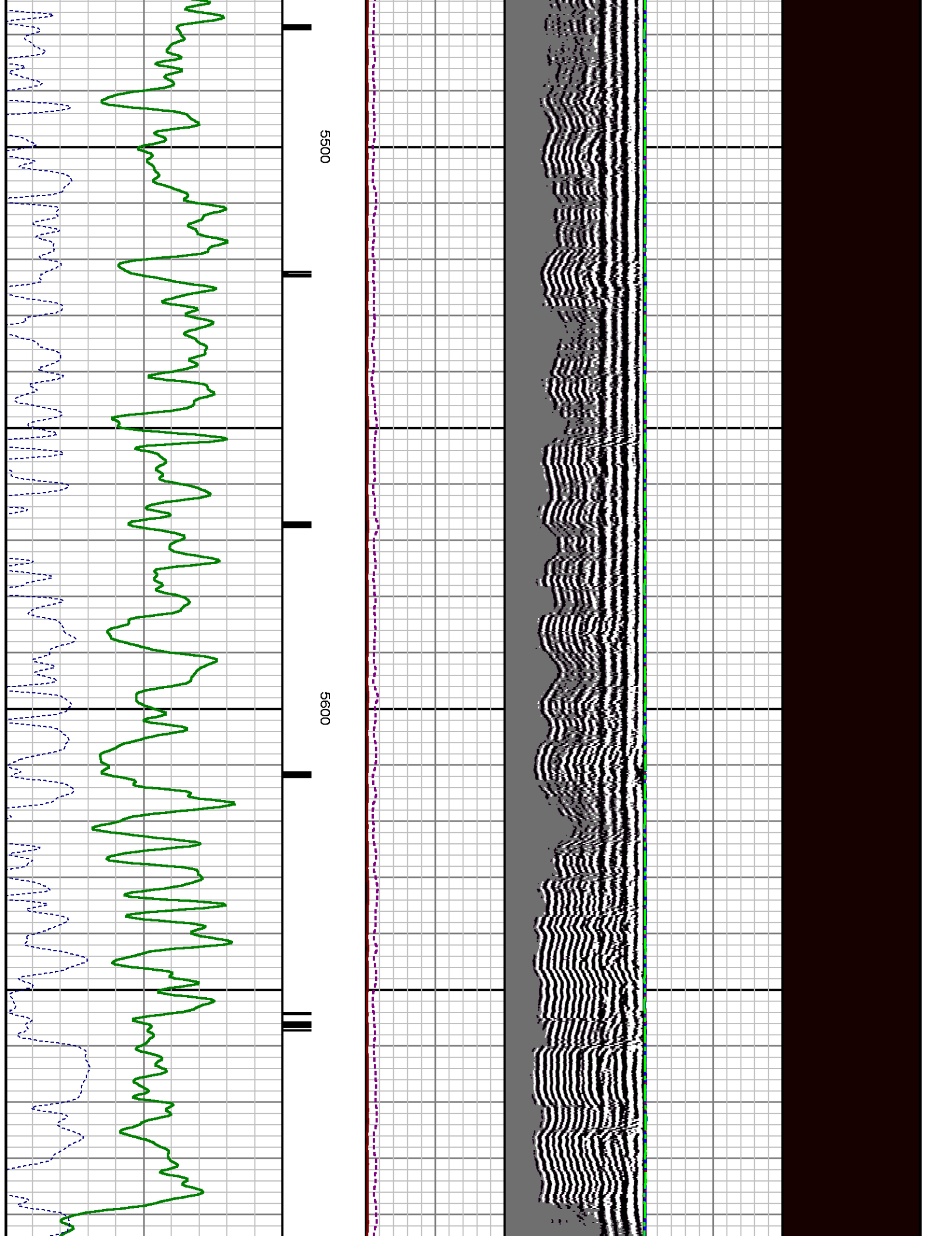


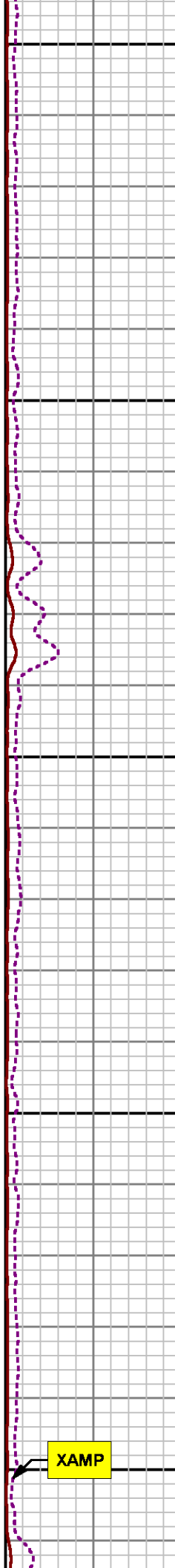
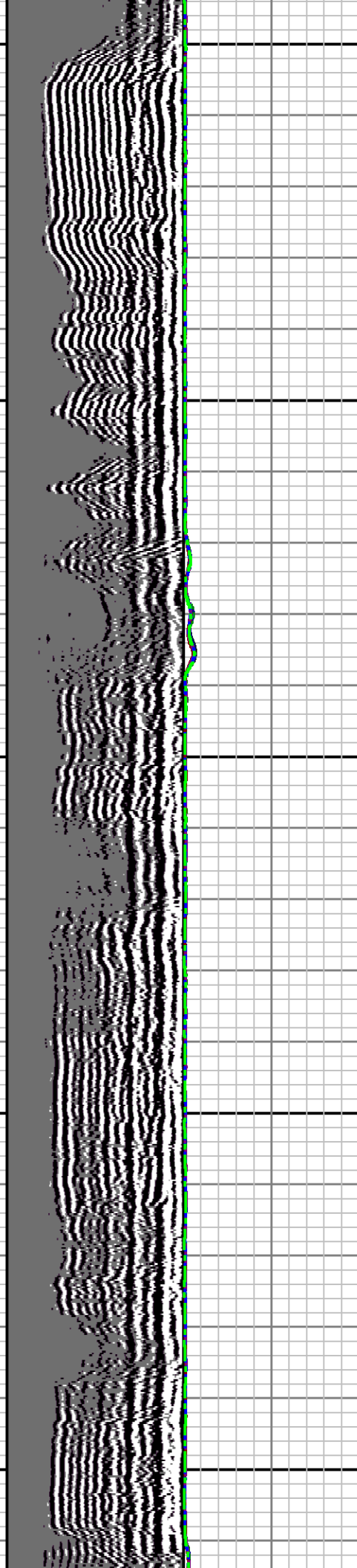












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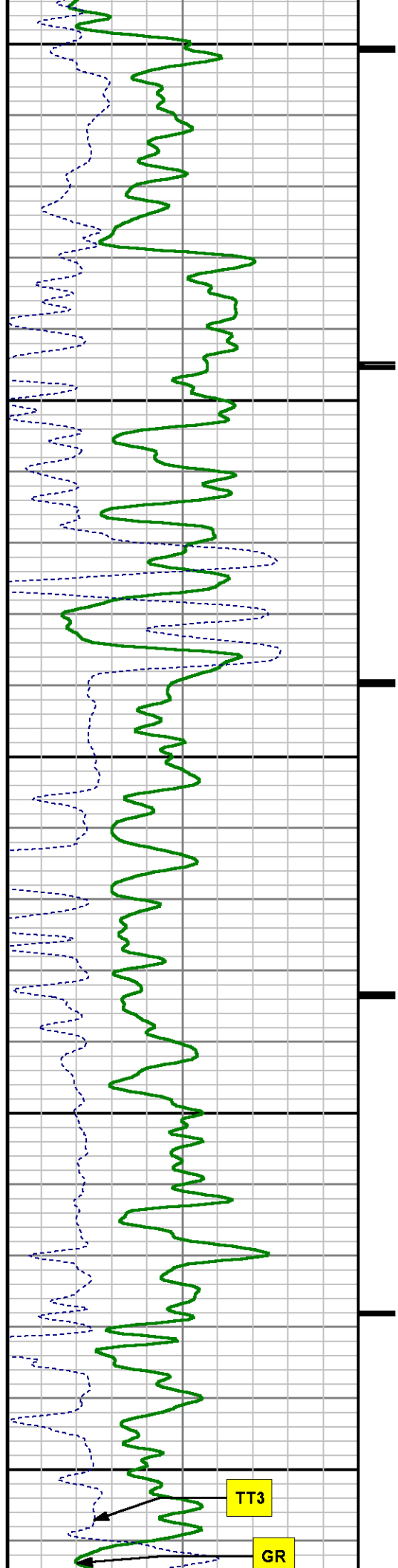
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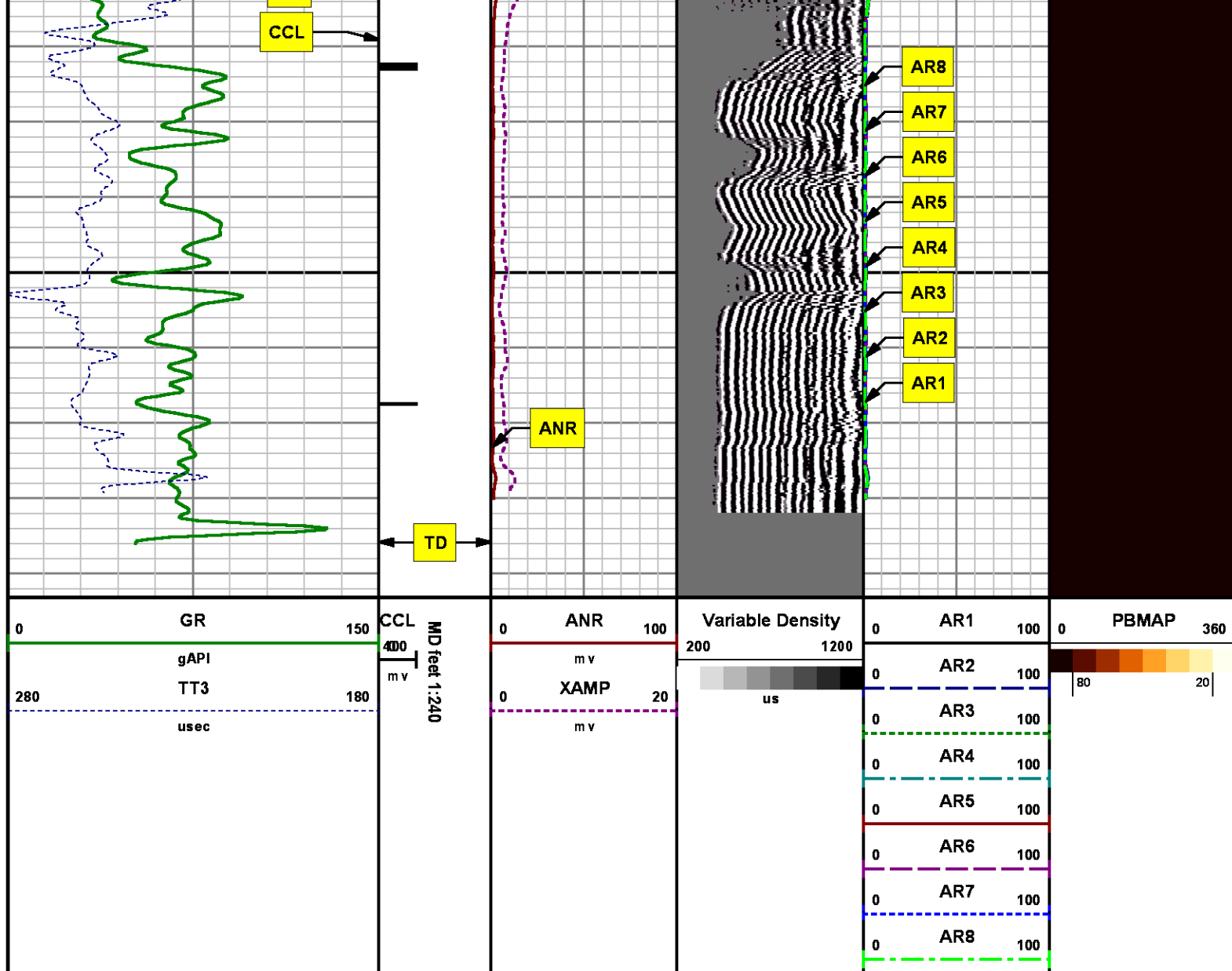
5900

XAMP

TT3

GR





REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	5659.866	5987.000
RAL	Amp Gate Start Near	195.000	usec	5659.866	5987.000
RAL	Amp Gate Start Radial	195.000	usec	5659.866	5987.000
RAI	Amp Gate Width Far	25.000	usec	5659.866	5987.000

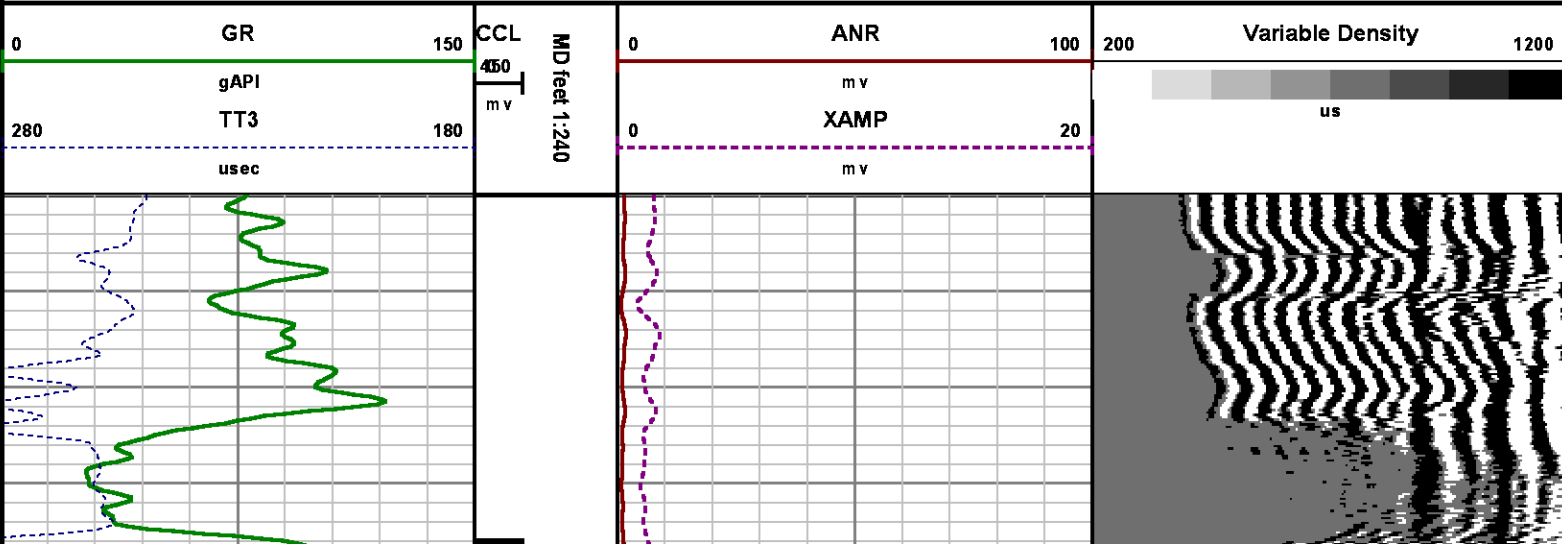
RAL	Amp Gate Width Near	25.000	usec	5659.866	5987.000
RAL	Amp Gate Width Radial	25.000	usec	5659.866	5987.000
RAL	casing od	4.500	inches	5659.866	5987.000
RAL	casing wt	11.600	lbm/ft	5659.866	5987.000
RAL	FB Start Far	291.900	usec	5659.866	5987.000
RAL	FB Start Near	180.000	usec	5659.866	5987.000
RAL	FB Start Radial	180.000	usec	5659.866	5987.000
RAL	FB Thresh Far	10.000	mv	5659.866	5987.000
RAL	FB Thresh Near	4.000	mv	5659.866	5987.000
RAL	FB Thresh Radial	4.000	mv	5659.866	5987.000
RAL	Fluid Travel Time	200.000	usec/ft	5659.866	5987.000

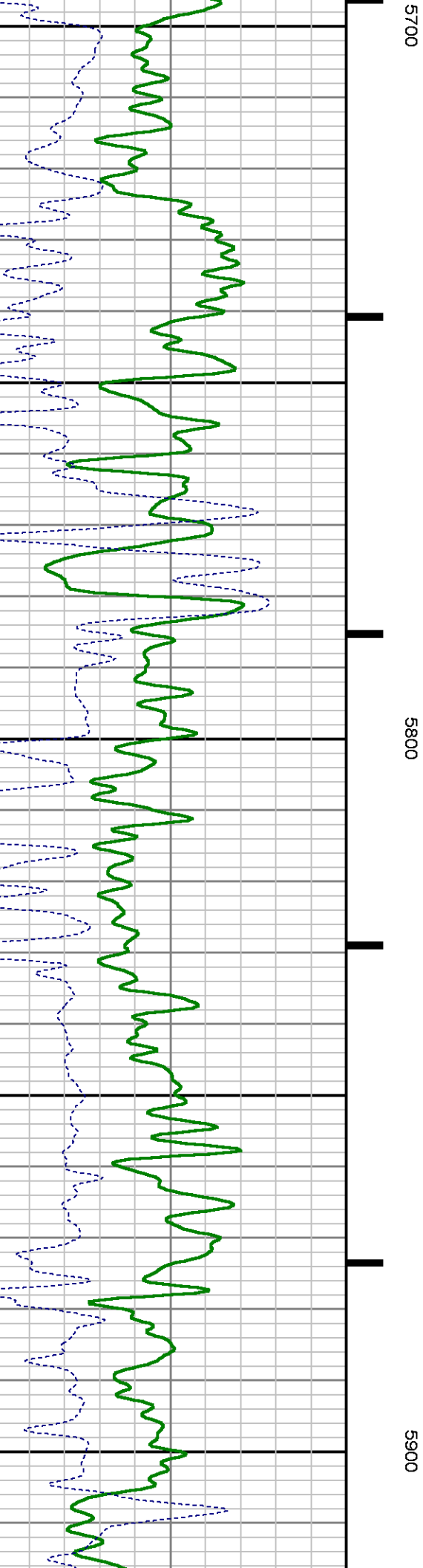
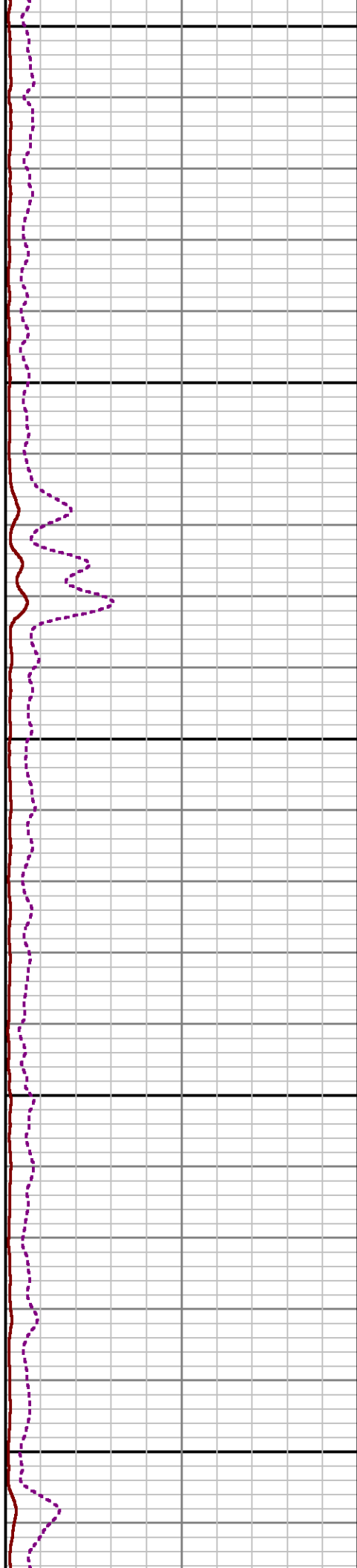
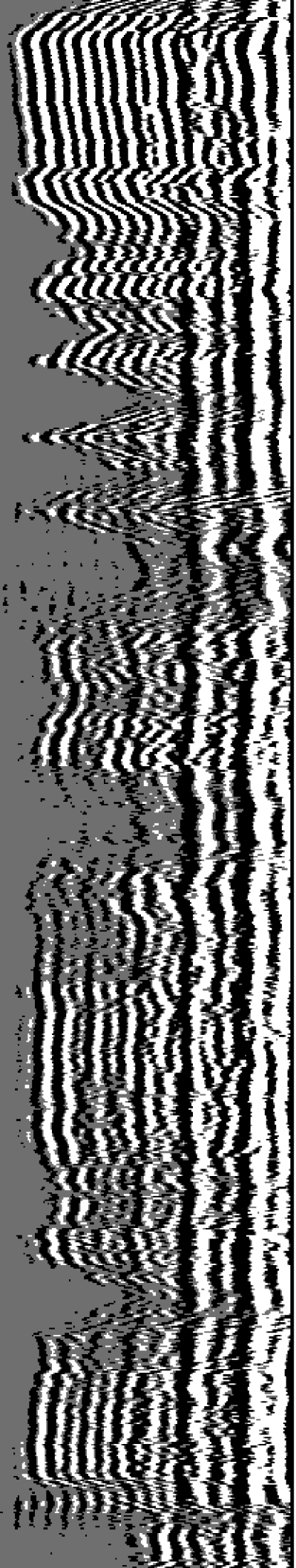
DEPTH OFFSETS

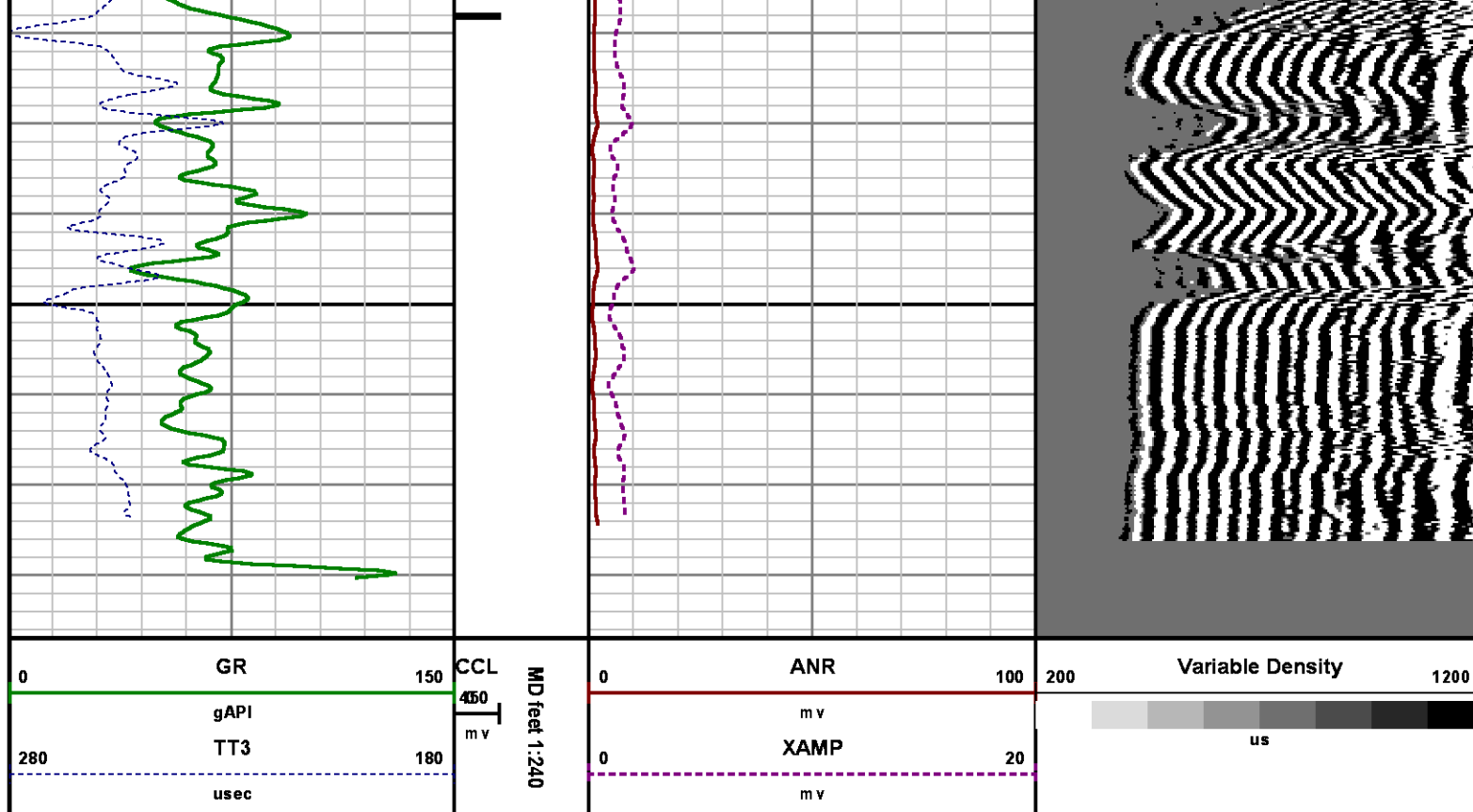
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	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	-11.360	AFAR	SIG	TT5			
2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

Created by : RAL, v4.8.008
 Plotted by : PlotMgr, v5.4.504
 Company : WPX ENERGY
 Well : C&C ENERGY GM 311-13
 File Name : d:\welldata\wpx\gm 311-13\311ral\repeat.xtf
 Mode : PlotMgr 5.4.504
 Interval : 5660.00 - 5987.00 feet UP
 Created : 7/22/2014 3:48:44 PM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHPV106JY20_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 20 13:08:31 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: JY20

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	219	216	30	166	25	-0.186	100.00	0.36
3 Ft. Receiver	218	216	30	166	25	-0.187	100.00	0.36
5 Ft. Receiver	326	325	30	220	25	0.672	150.00	0.38
Radial #1	217	216	30	166	25	-0.766	100.00	0.35
Radial #2	216	216	30	166	25	-0.231	100.00	0.35
Radial #3	216	216	30	166	25	-0.712	100.00	0.35
Radial #4	217	216	30	166	25	-0.439	100.00	0.36
Radial #5	217	216	30	166	25	-0.496	100.00	0.36
Radial #6	218	216	30	166	25	-0.208	100.00	0.36

Radial #3	218	216	30	166	25	-0.209	100.00	0.36
Radial #7	218	216	30	166	25	-0.585	100.00	0.36
Radial #8	219	216	30	166	25	-0.232	100.00	0.36

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106JY20 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 20 13:10:33 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: JY20

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	-0.209	0.000	0.99	100.000
3 Ft. Receiver	195	25	-2.824			
5 Ft. Receiver	305	25	-3.963			
Radial #1	195	25	-3.823			
Radial #2	195	25	-3.745			
Radial #3	195	25	-3.428			
Radial #4	195	25	-3.564			
Radial #5	195	25	-3.192			
Radial #6	195	25	-3.354			
Radial #7	195	25	-2.256			
Radial #8	195	25	-2.650			

GAMMA RAY

Calibration File: C:\case\calver\GR\121J2.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jan 21 14:45:39 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	71.78	314.67	0.762	54.67	239.67	185.00

Verification File: C:\case\calver\GR\121J2.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jan 21 14:46:51 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	74.22	316.93	0.762	56.53	241.40	184.86

TOOL DIAGRAM

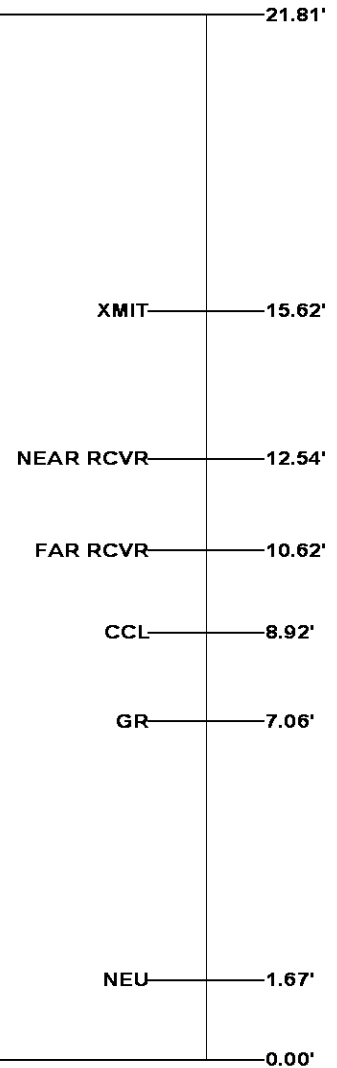
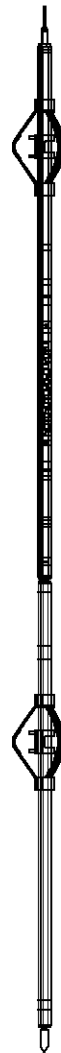
OTA SHORT CABLE HEAD

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



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



Baker Atlas



Company WPX ENERGY
Well C&C ENERGY GM 311-13
Field GRAND VALLEY
County GARFIELD **State** COLORADO

Location

SHL: 285' FSL & 980' FWL (SEC 12)
 BHT: 603' FNL & 794' FWL (NWNW SEC 13)

Elevations

KB 5165 ft
 DF

File No:

CH088402

API No:

05045222670000

13 7S 96W

GM 24-12 PAD

CR100

SEC 13 TWP 7S RGE 96W

GL 514.1 ft

H&P 318