



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH086758 Company WPX ENERGY

Well PA 314-6

Field PARACHUTE

County GARFIELD State CO

0504522330000

Location

6 7S 95W SHL: 790' FSL & 743' FWL

PA 14-6 PAD BHL: 879' FSL & 784' FWL

NABORS 574

SEC 6 TWP 7S RGE 95W

Other Services

RPM

Permanent Datum GL Elevation 5153 ft

Log Measured From KB 26 ft Above P. D.

Drill Measured From KB Elevations KB 5179 ft DF GL 5153 ft

Date	04/JUN/14	
Run	ONE	
Service Order	US086758	
Depth Driller	6474 ft	
Depth Logger	6418 ft	
Bottom Logged Interval	6408 ft	
Top Logged Interval	26 ft	
Time Started	7:30	
Time Finished	11:30	
Operator Rig Time	4 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	62 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	66 fpm	
Maximum Recorded Temperature	212 degF	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4271	GRAND JUNCTION
Recorded By	NEMELL	
Witnessed By	CHRIS TILLER	

- 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	1000 ft
8.75 in	1000 ft	6503 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	1000 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	6503 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 8 feet.
Logged with zero PSI at wellhead.
Pulled weight at bottom when starting the repeat pass, so the main pass

was started just above bottom.

BHT = 212 °F
SJ = 2719'-2802'

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

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.125	6411.750
RAL	Amp Gate Start Near	195.000	usec	35.125	6411.750
RAL	Amp Gate Start Radial	195.000	usec	35.125	6411.750
RAL	Amp Gate Width Far	25.000	usec	35.125	6411.750
RAL	Amp Gate Width Near	25.000	usec	35.125	6411.750
RAL	Amp Gate Width Radial	25.000	usec	35.125	6411.750
RAL	casing od	4.500	inches	35.125	6411.750
RAL	casing wt	11.600	lbm/ft	35.125	6411.750
RAL	FB Start Far	291.900	usec	35.125	6411.750
RAL	FB Start Near	175.391	usec	35.125	6411.750
RAL	FB Start Radial	175.391	usec	35.125	6411.750
RAL	FB Thresh Far	10.000	mv	35.125	6411.750
RAL	FB Thresh Near	4.000	mv	35.125	6411.750
RAL	FB Thresh Radial	4.000	mv	35.125	6411.750
RAL	Fluid Travel Time	200.000	usec/ft	35.125	6411.750

DEPTH OFFSETS
(for Acquired Curves)

SERIES DEPTH OFFSET 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

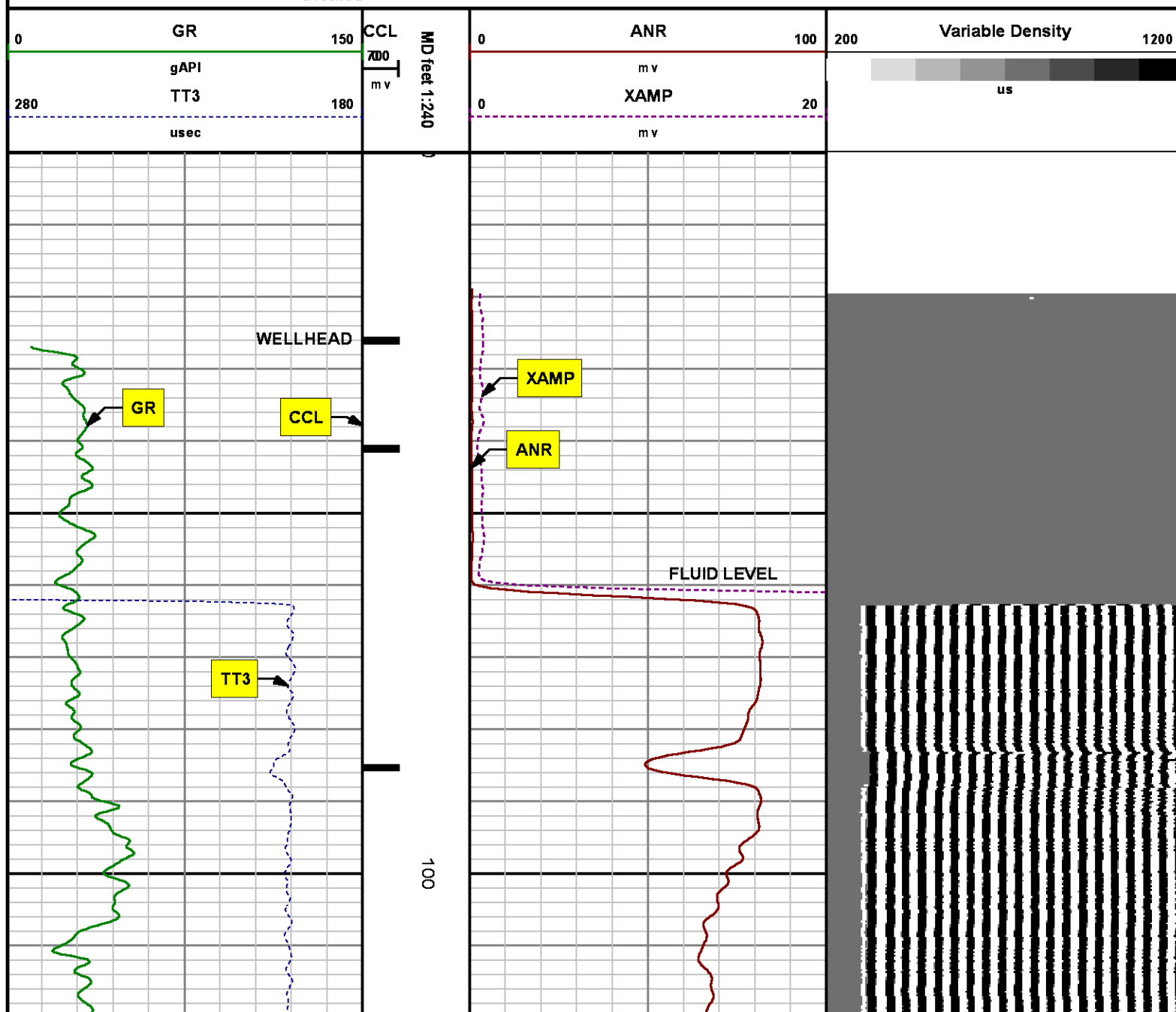
Well : PA 314-6

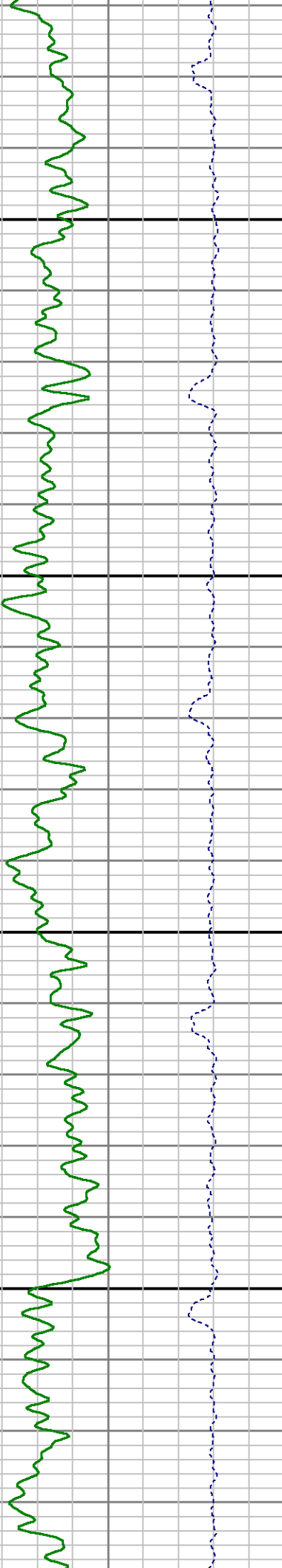
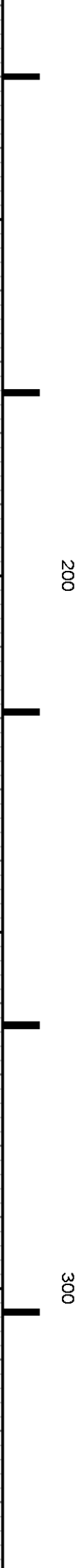
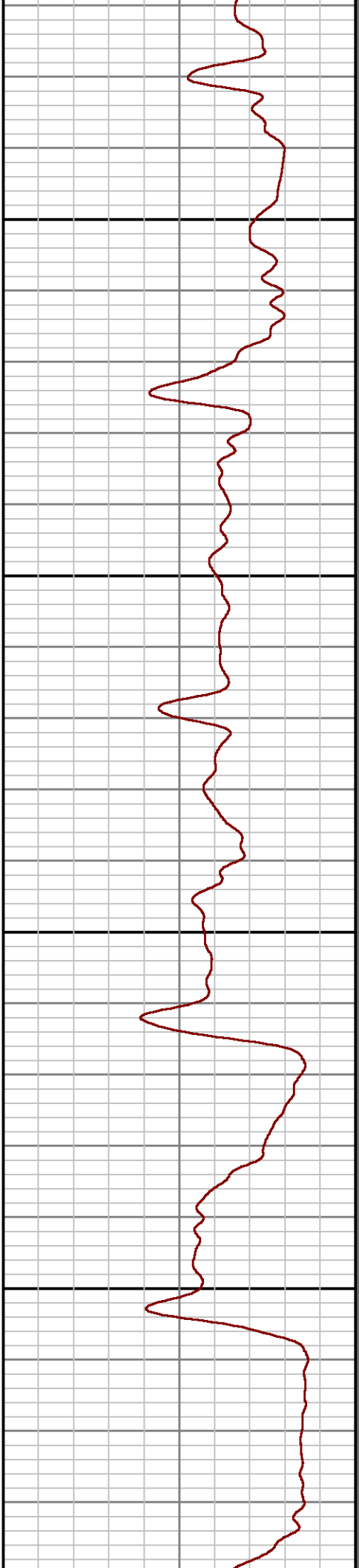
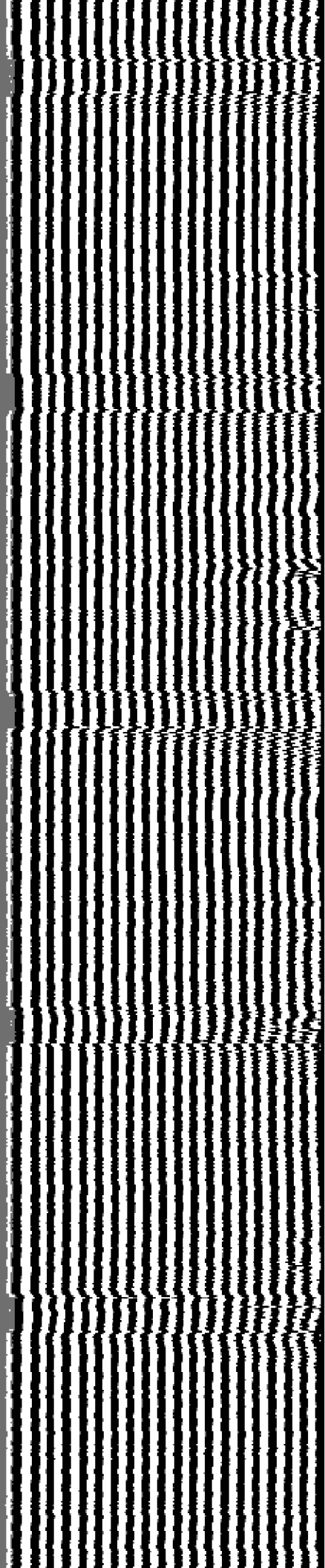
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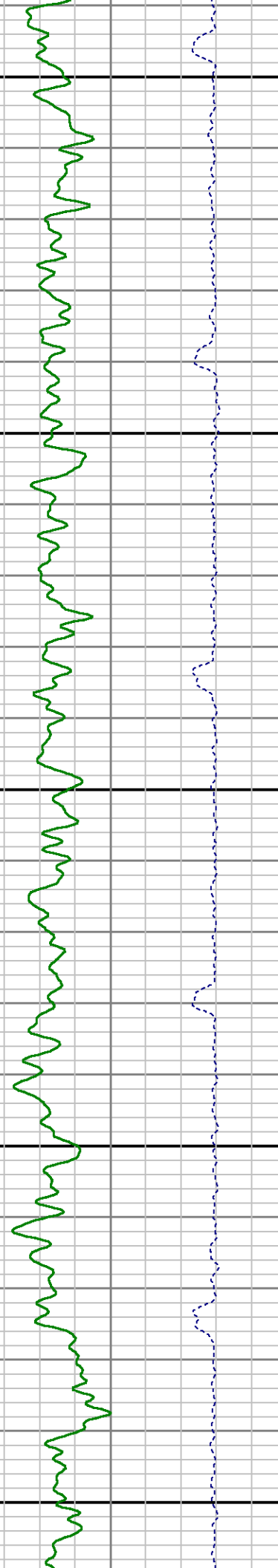
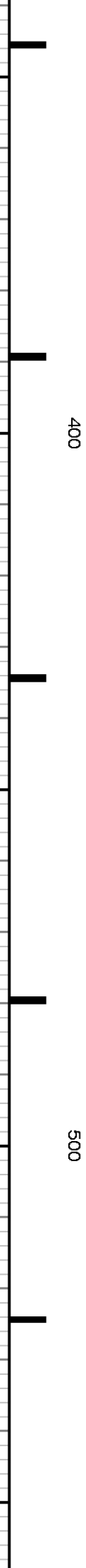
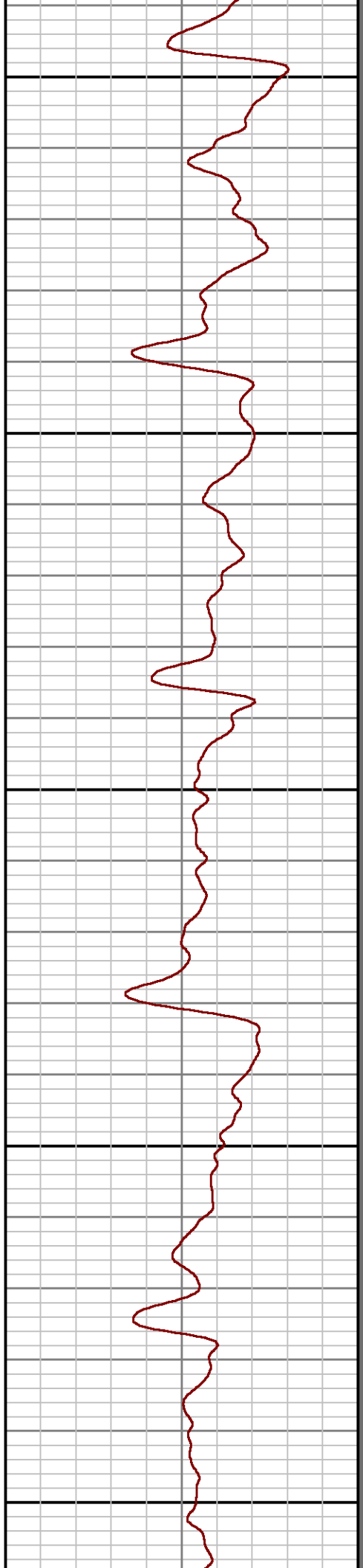
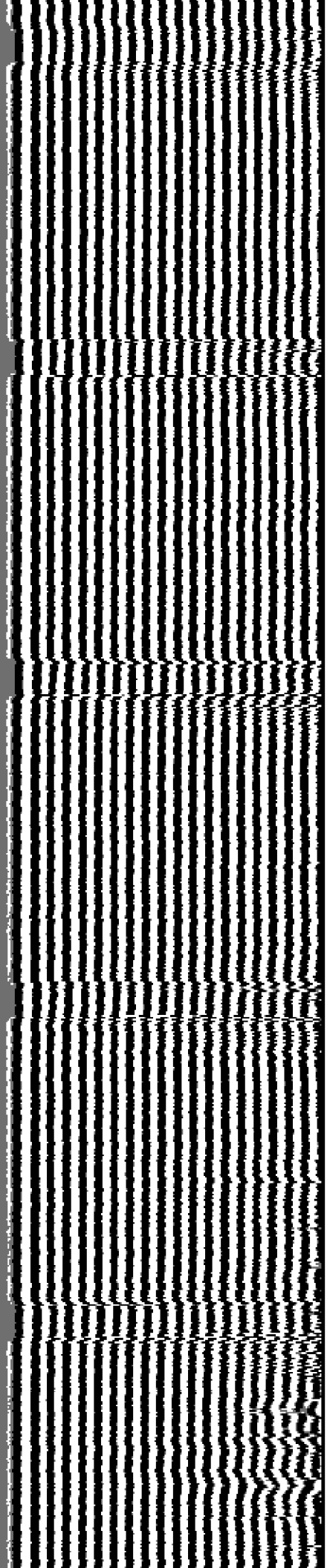
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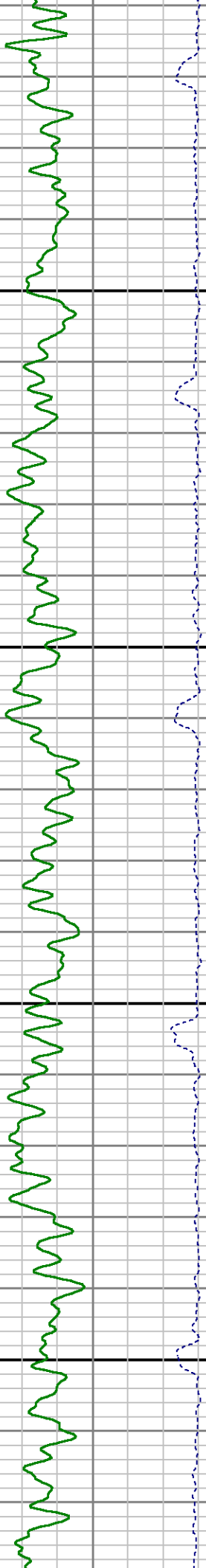
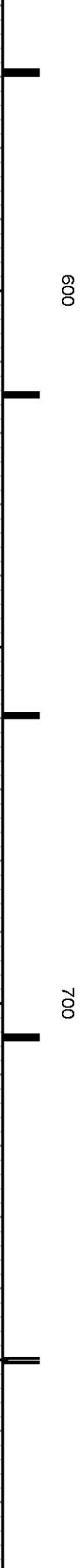
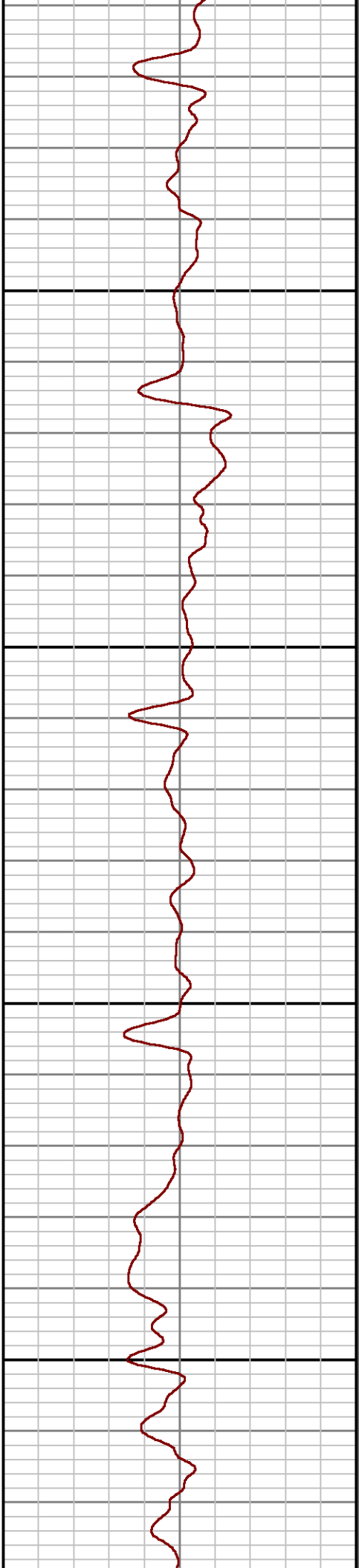
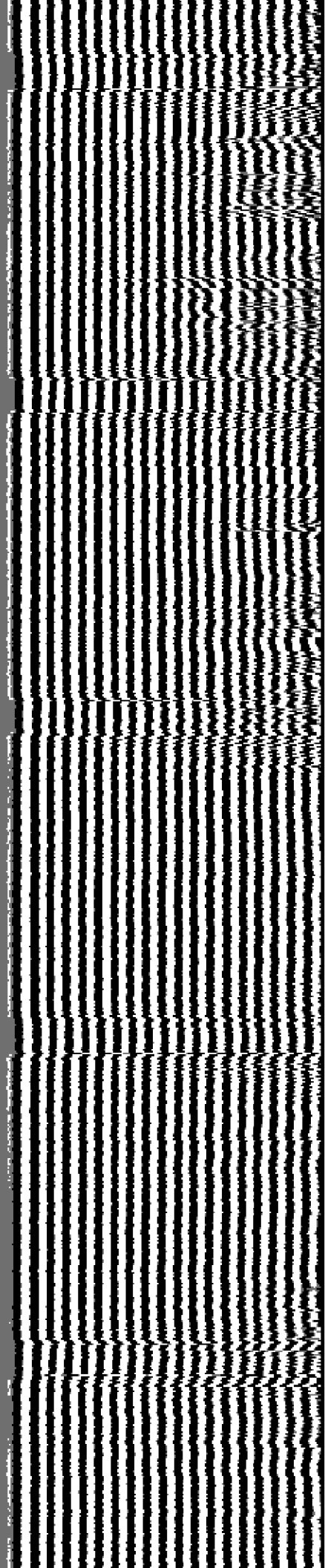
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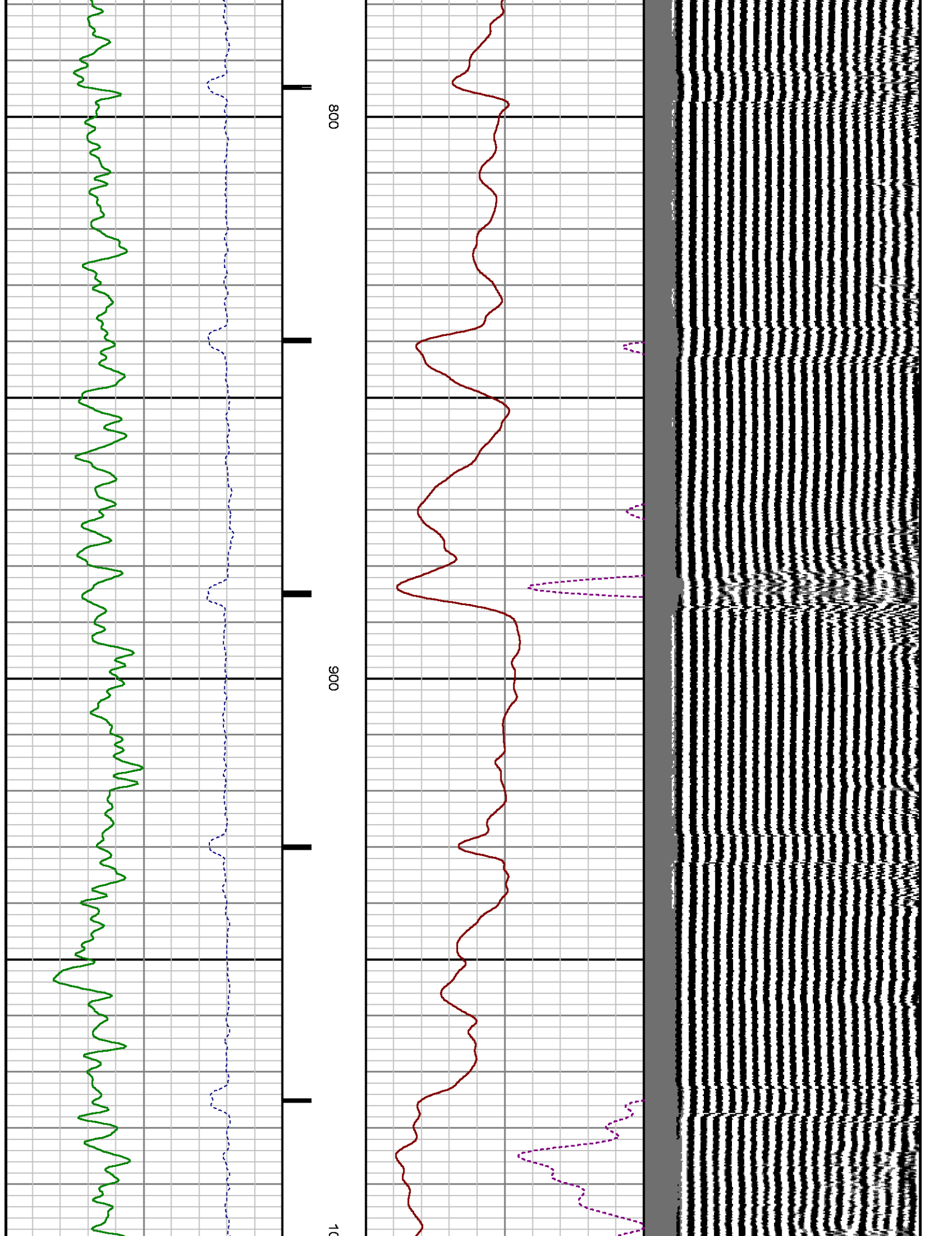
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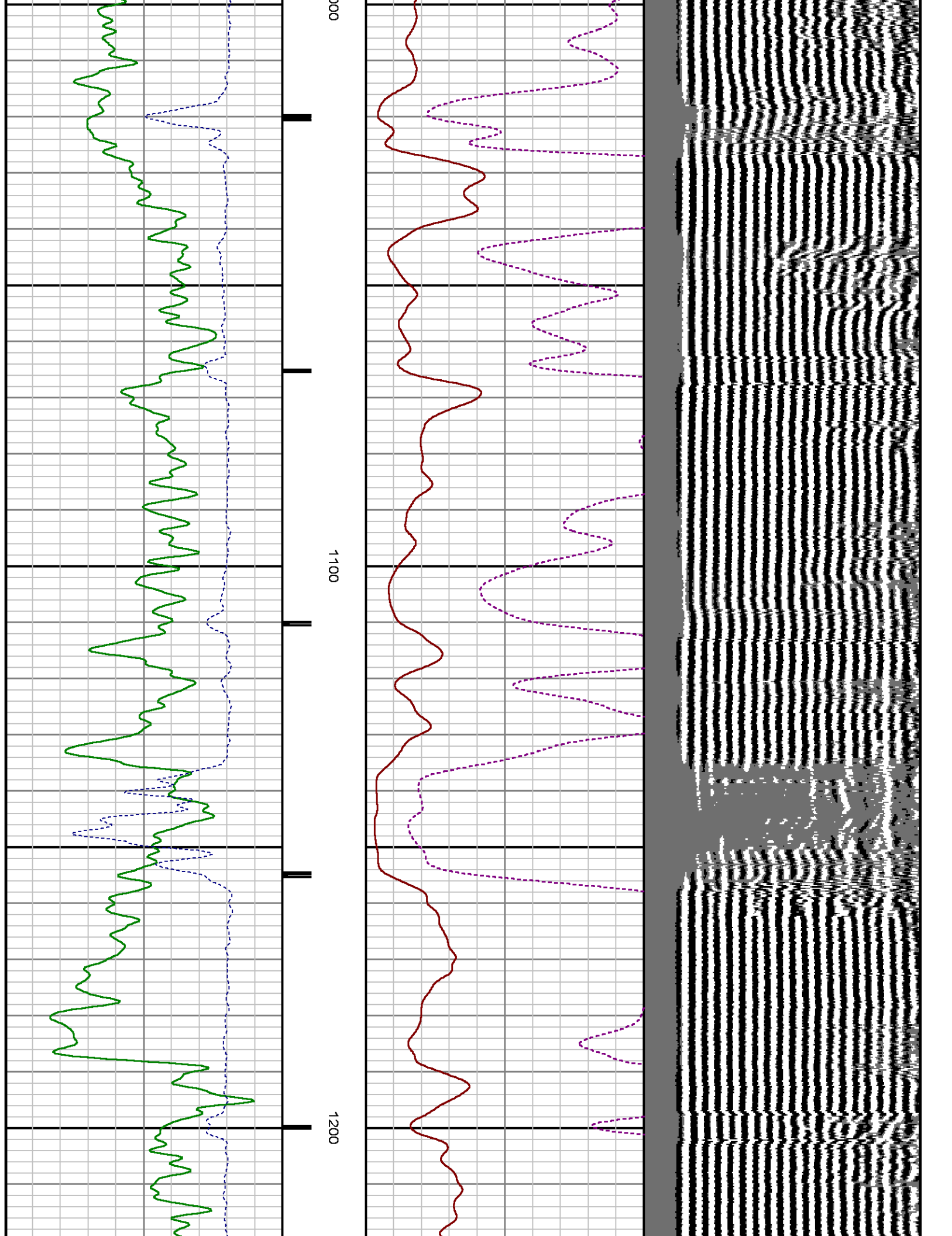


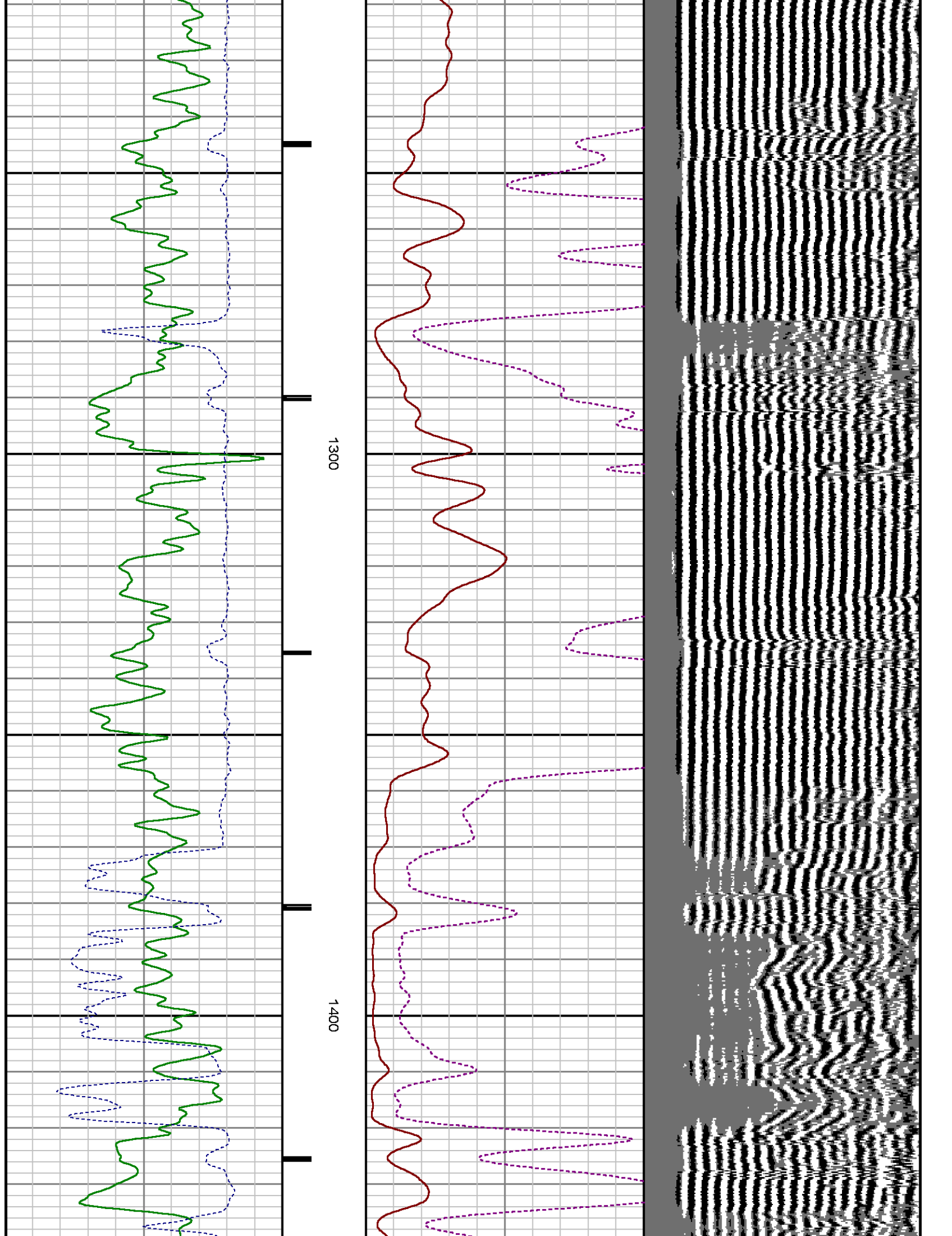


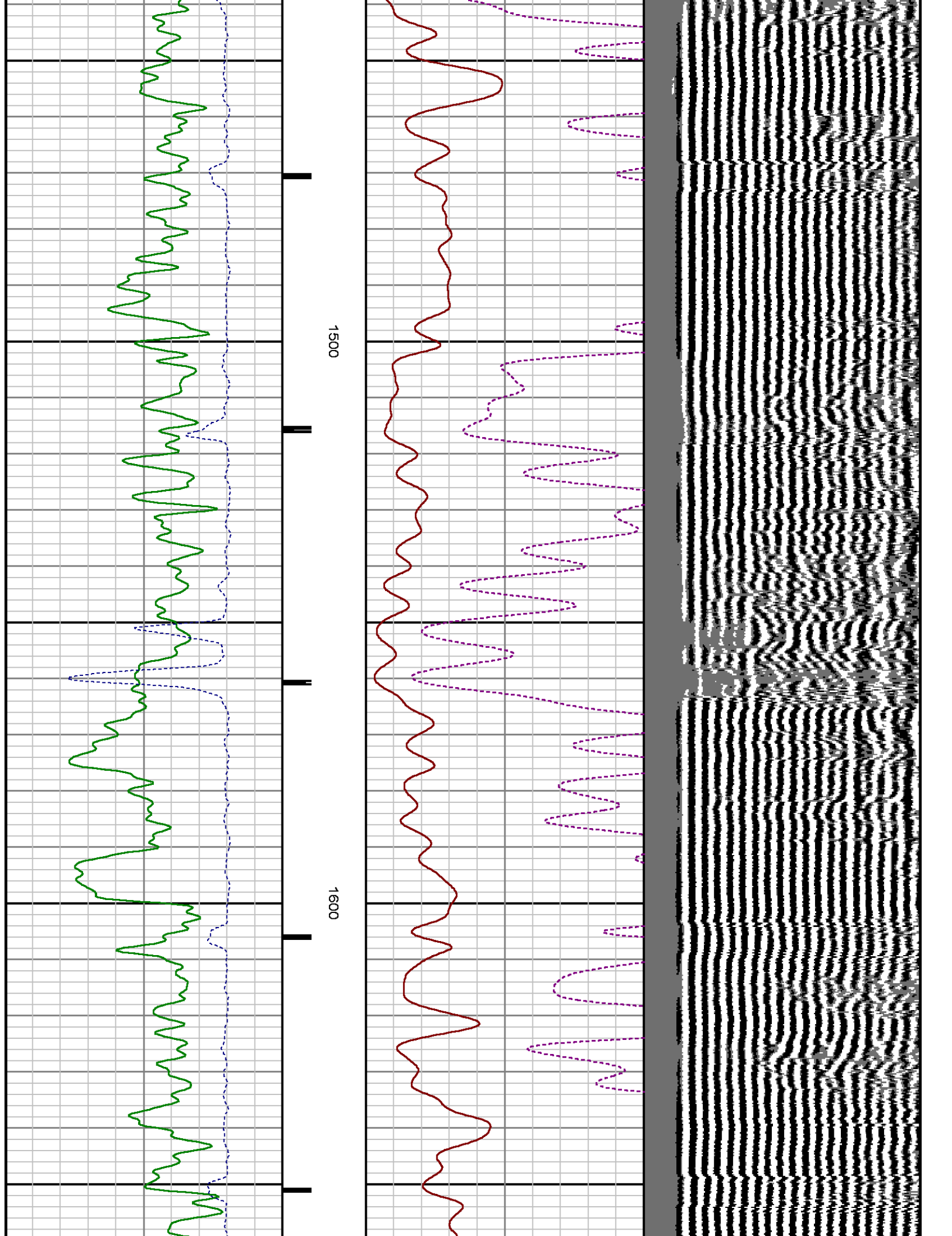


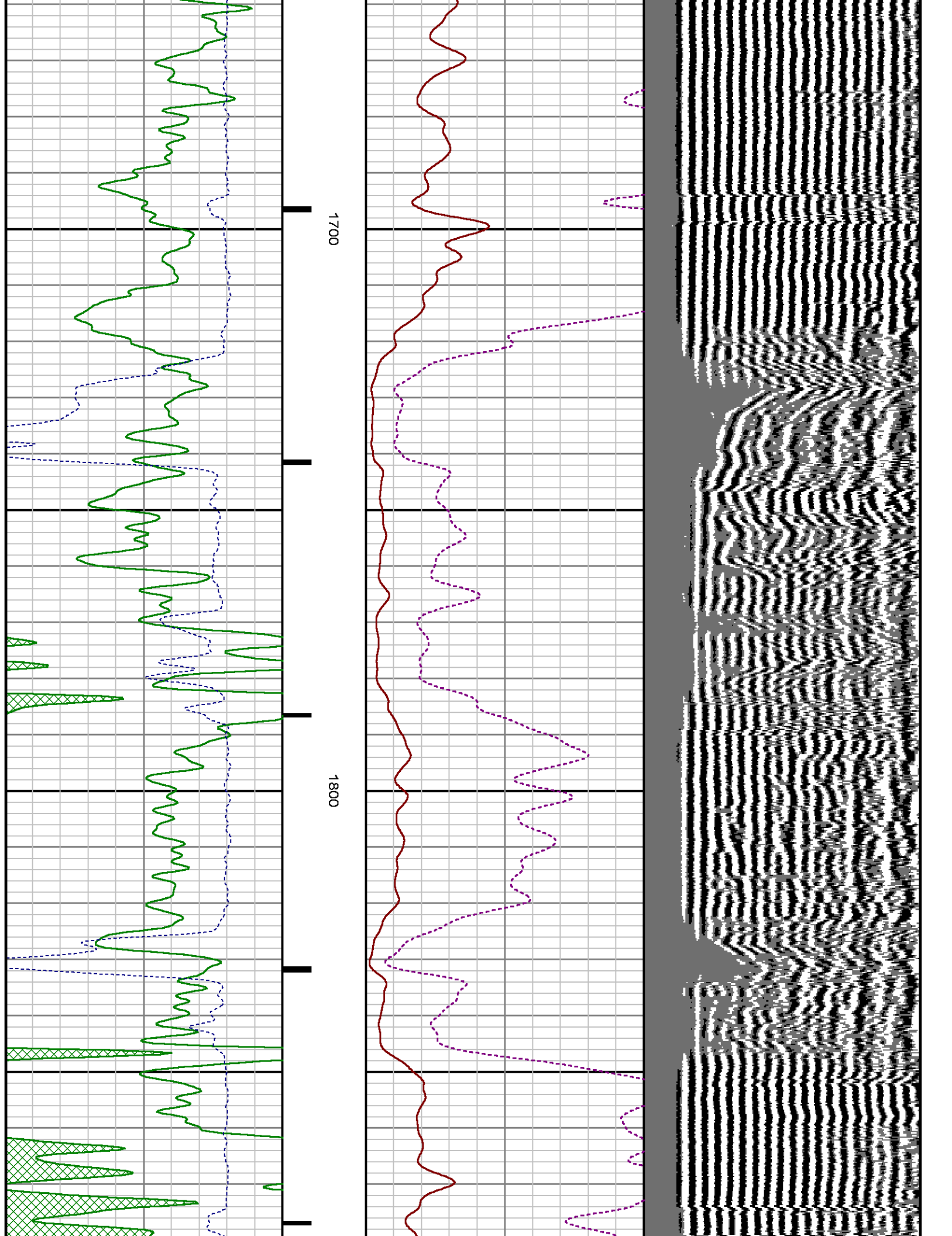


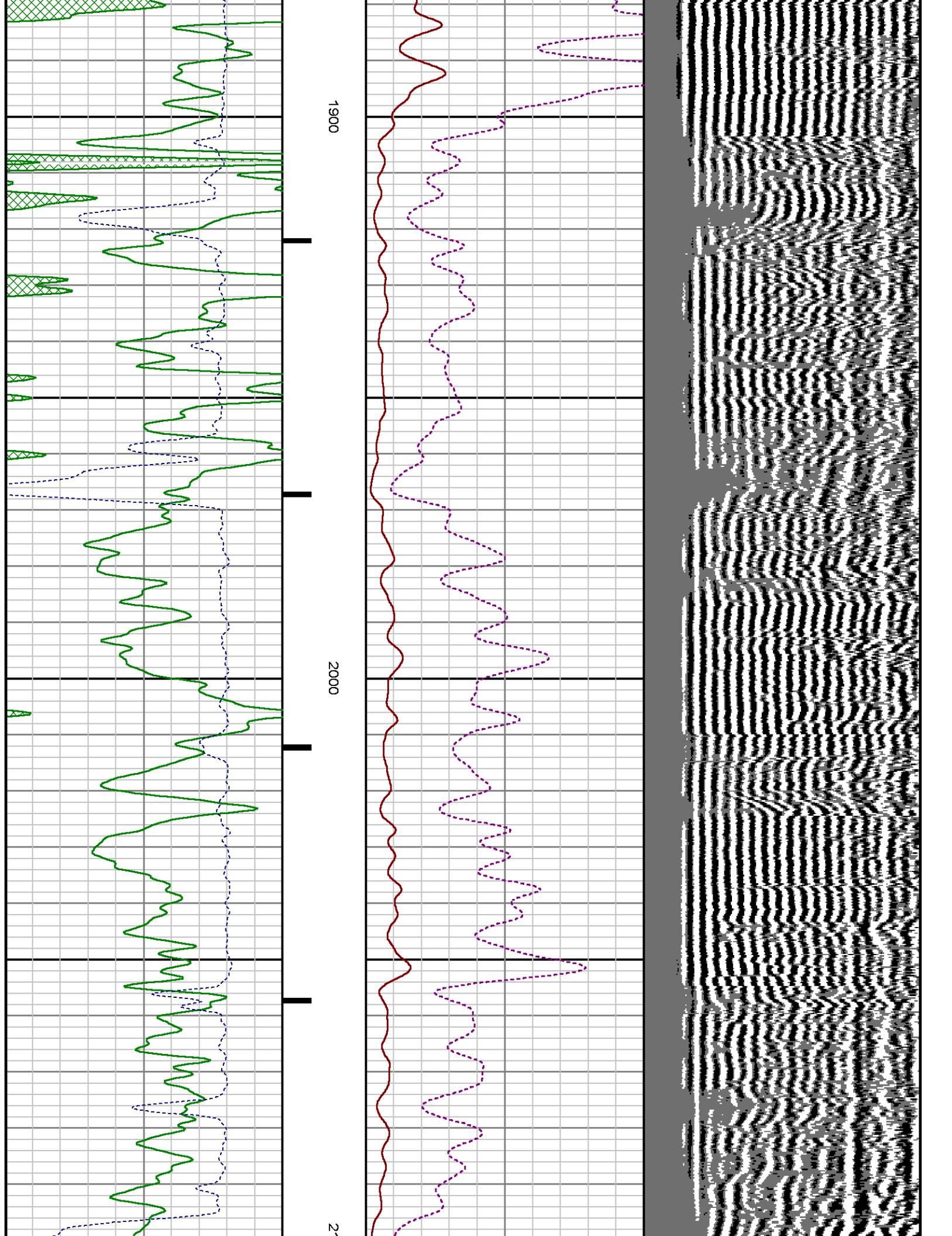


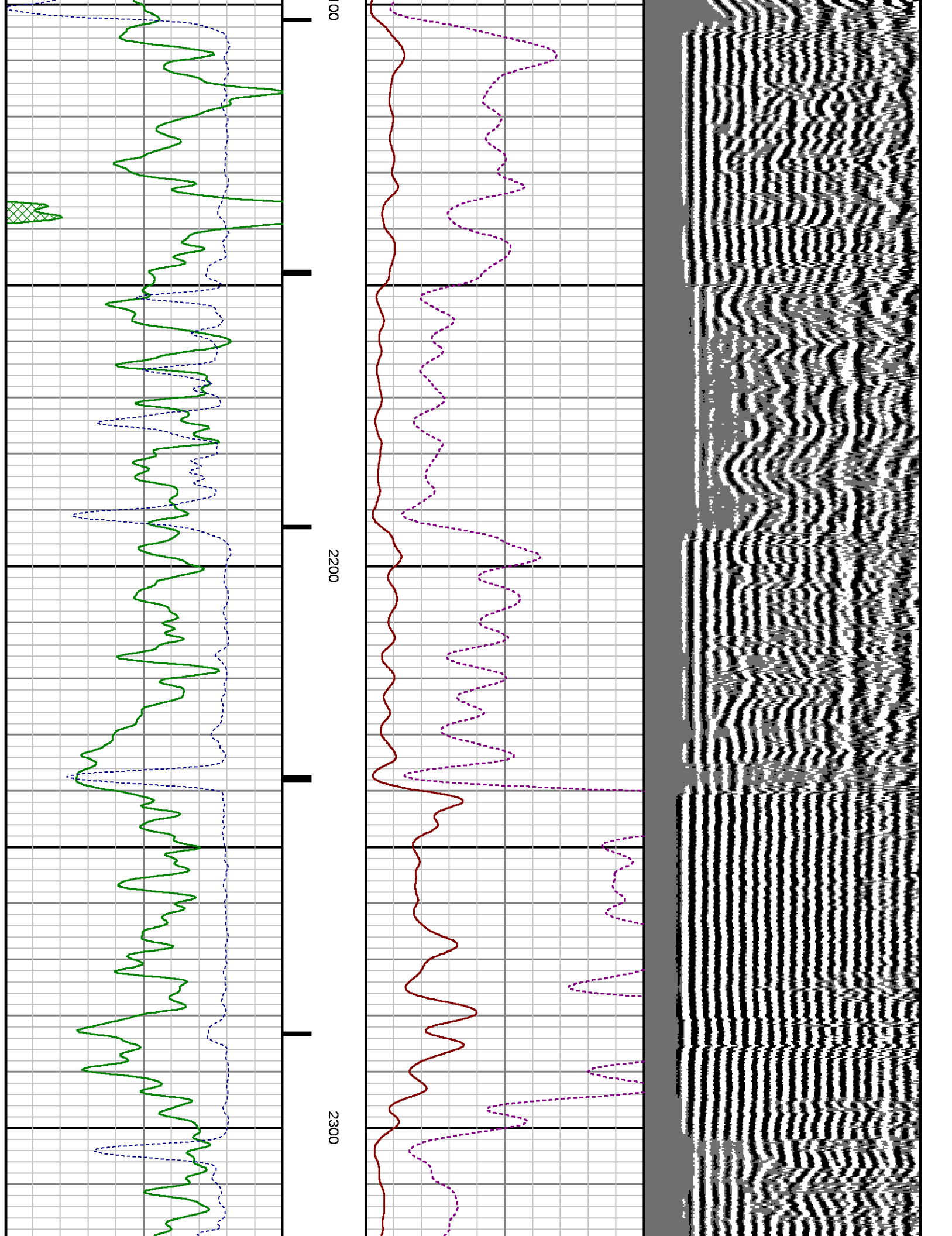


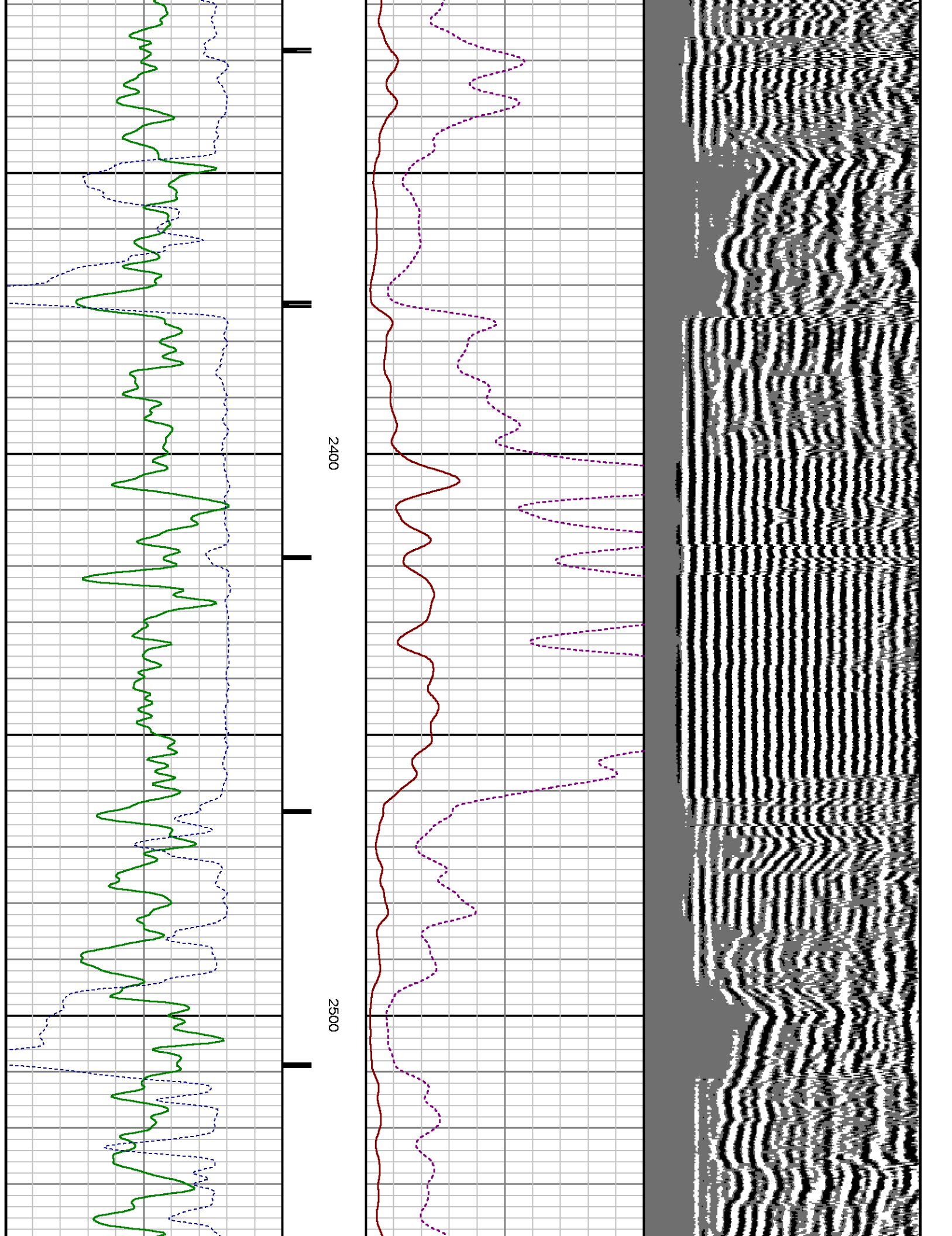


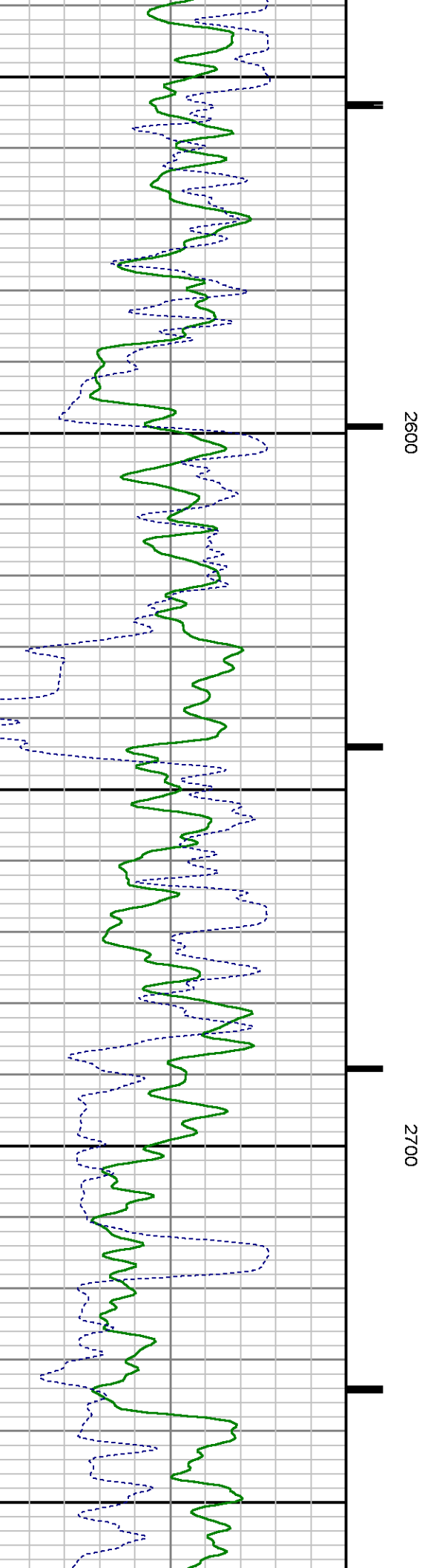
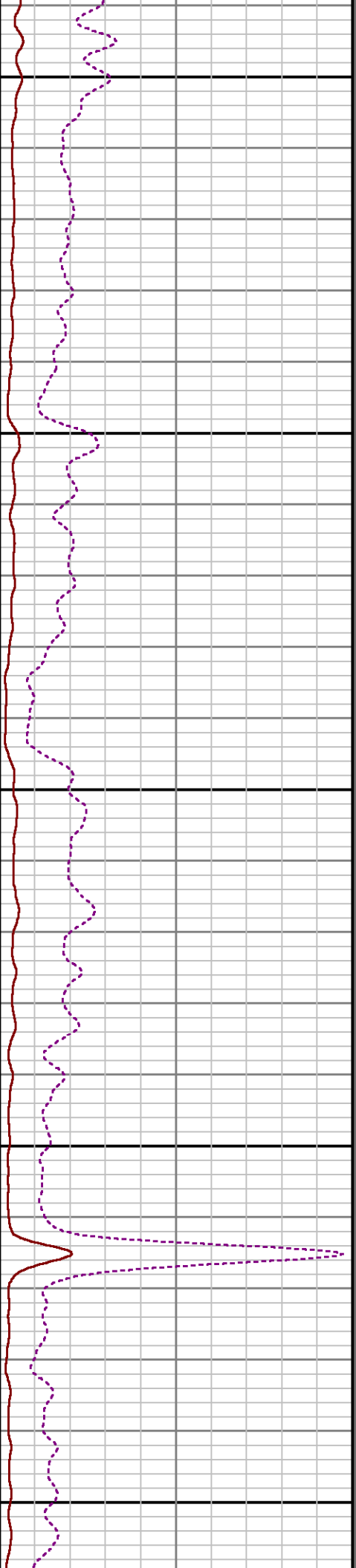
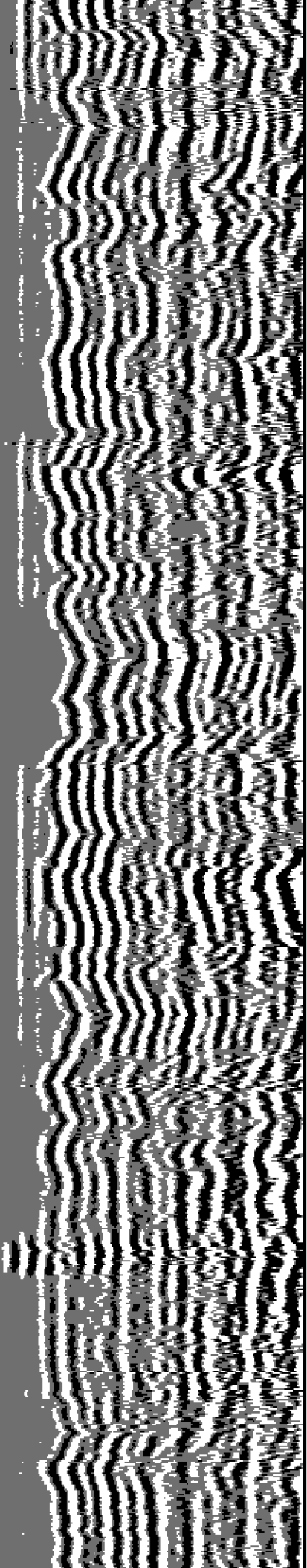


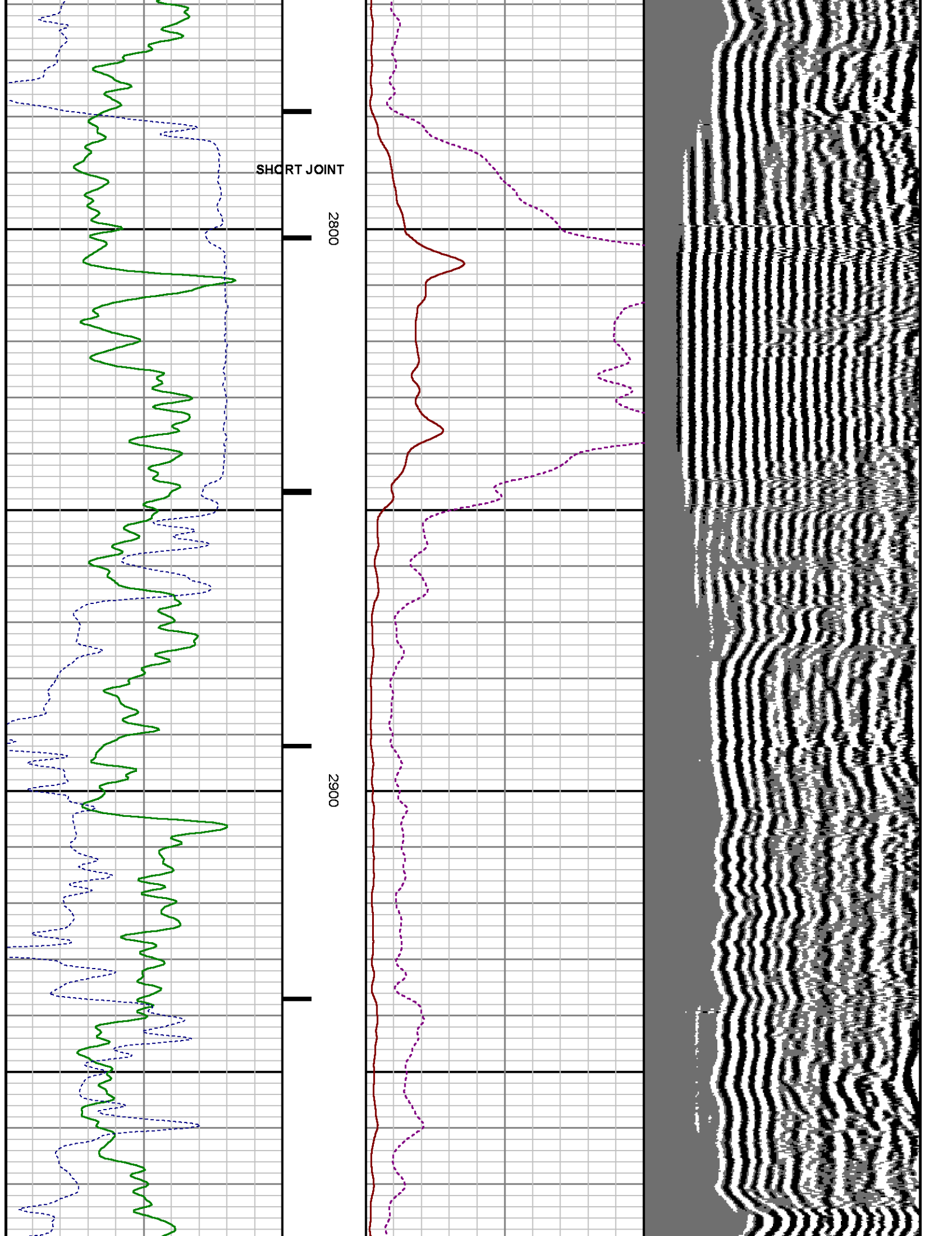


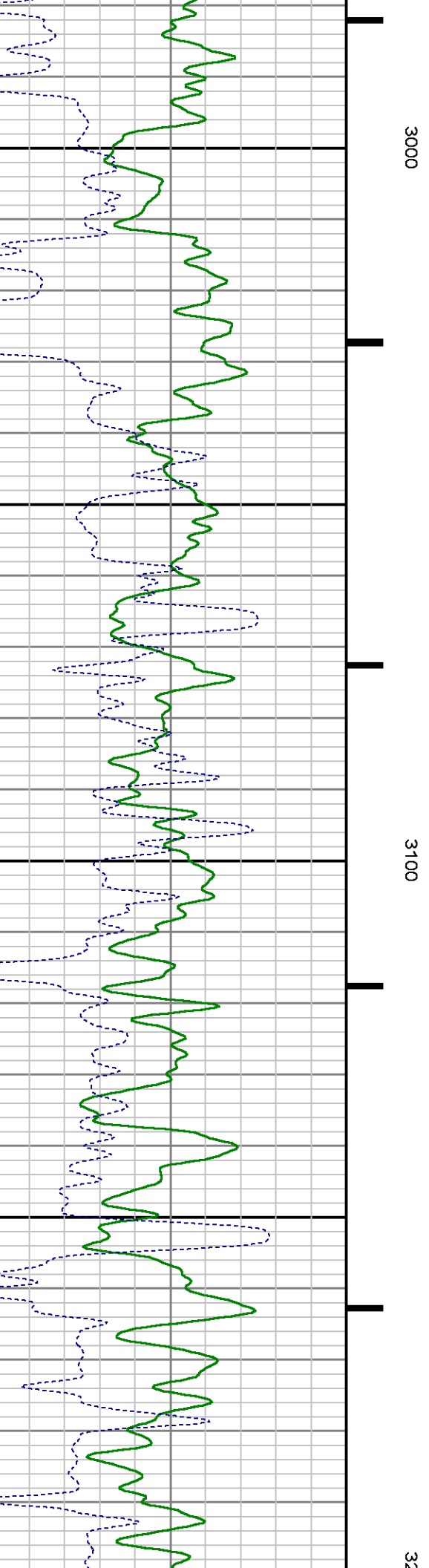
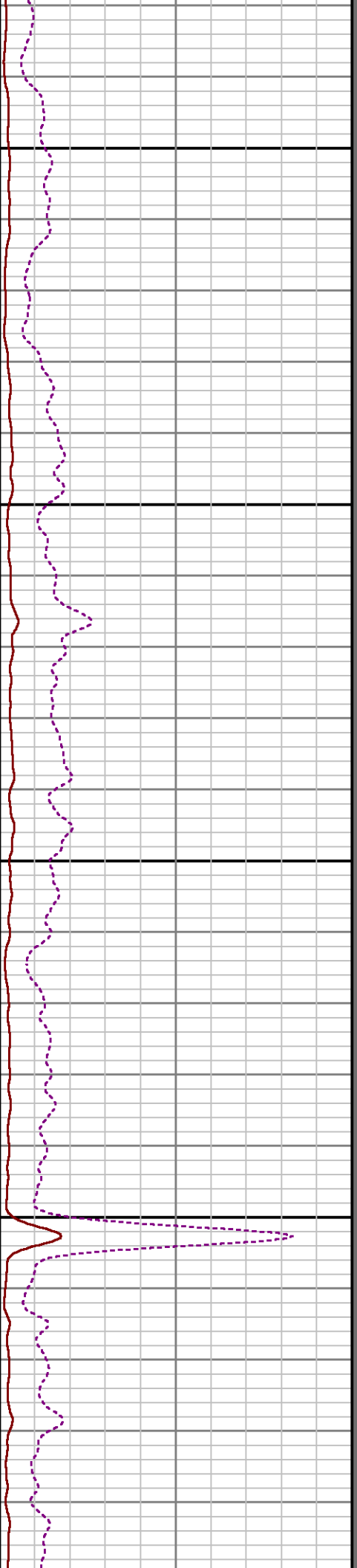
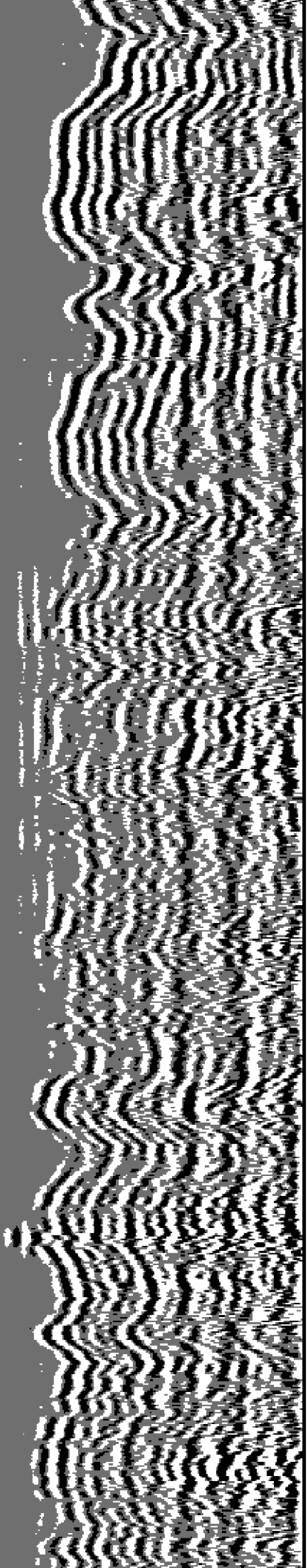


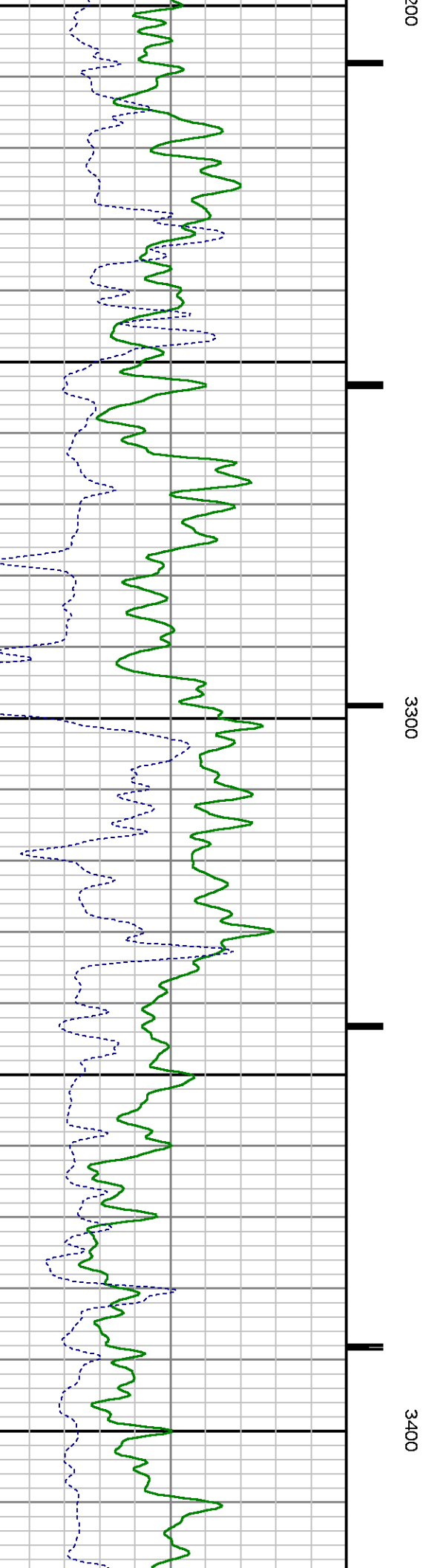
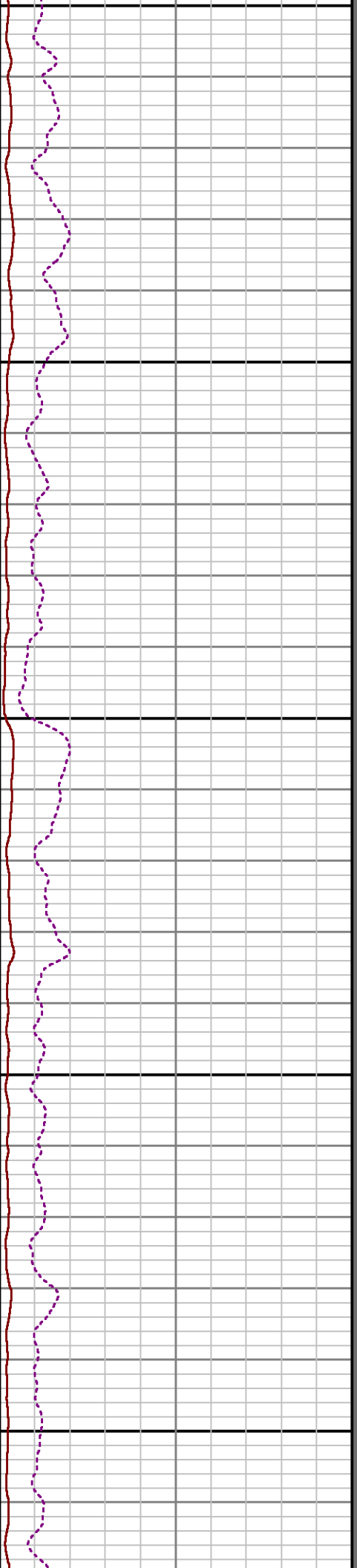
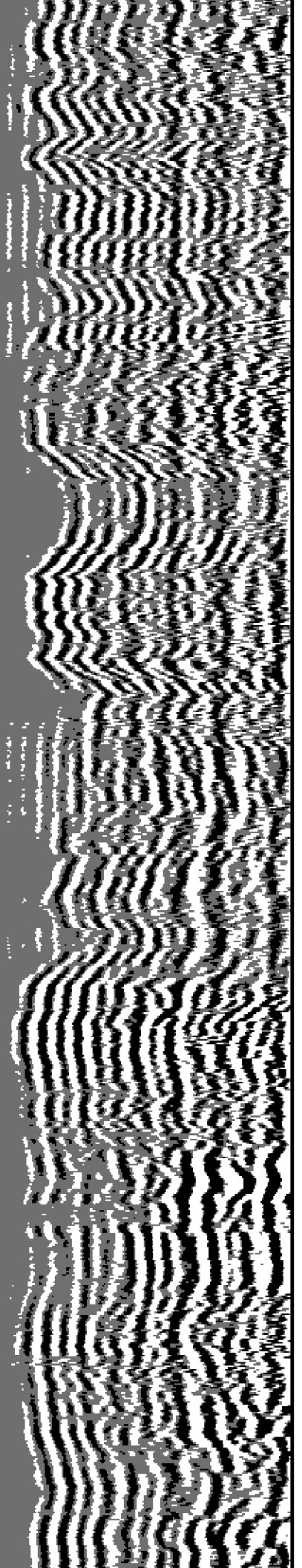


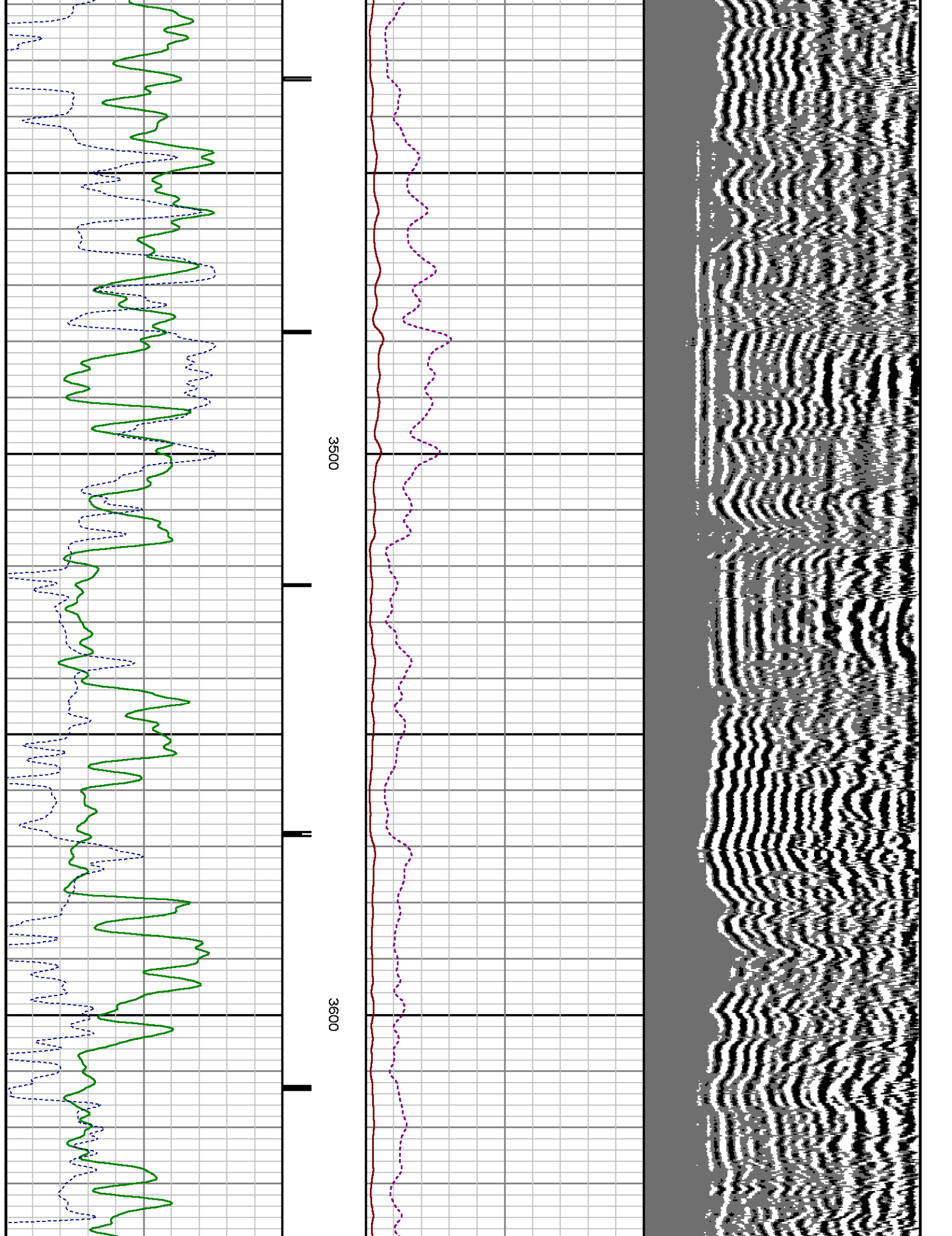


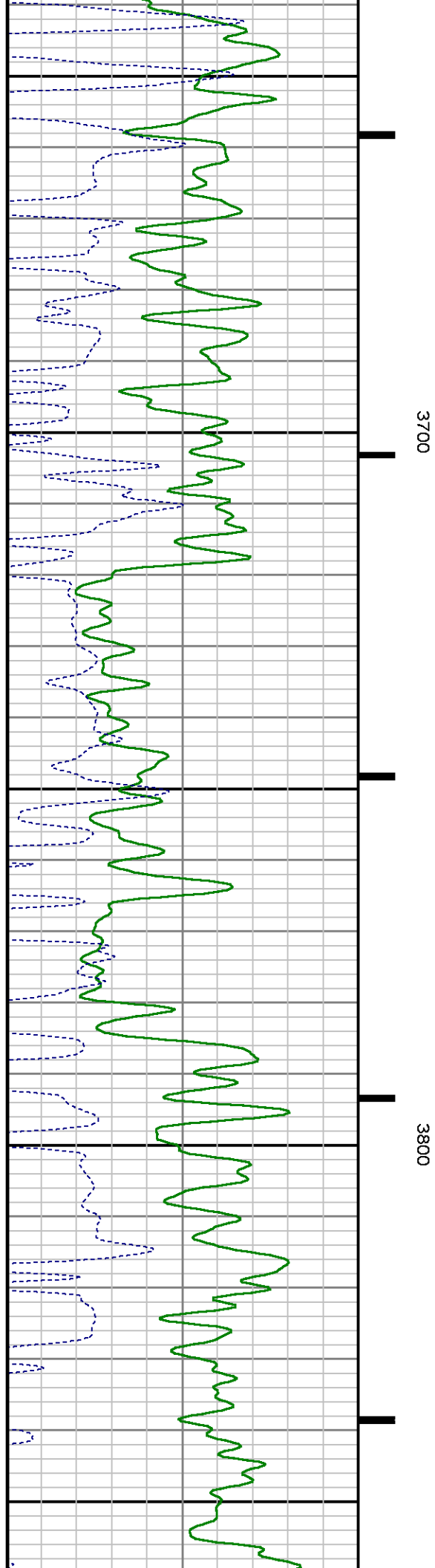
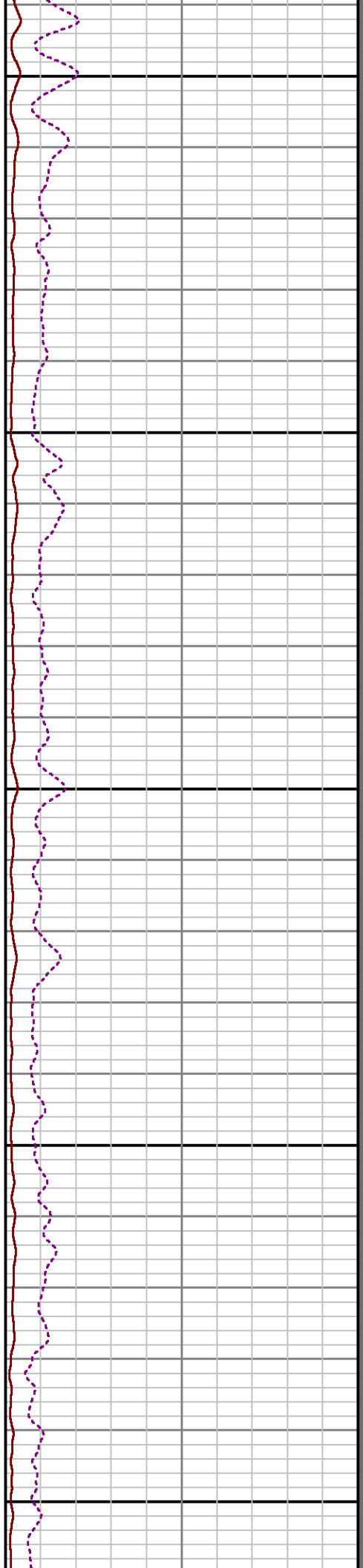
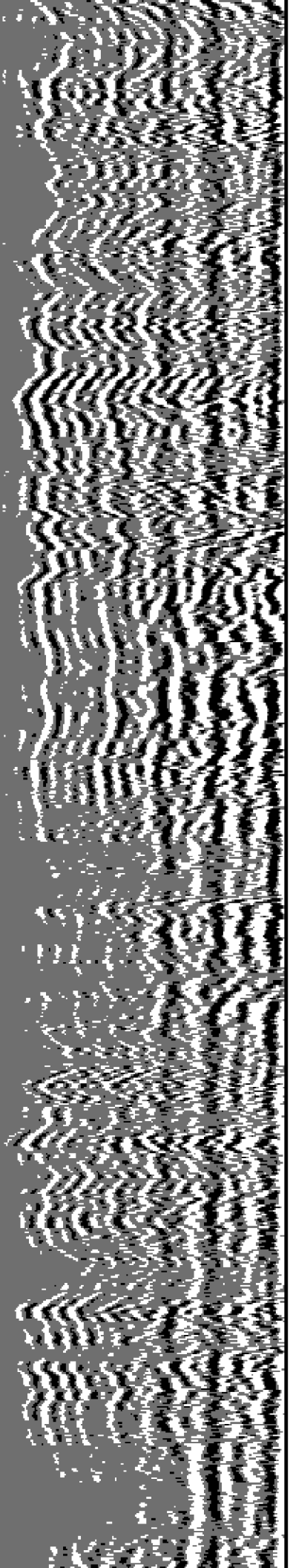


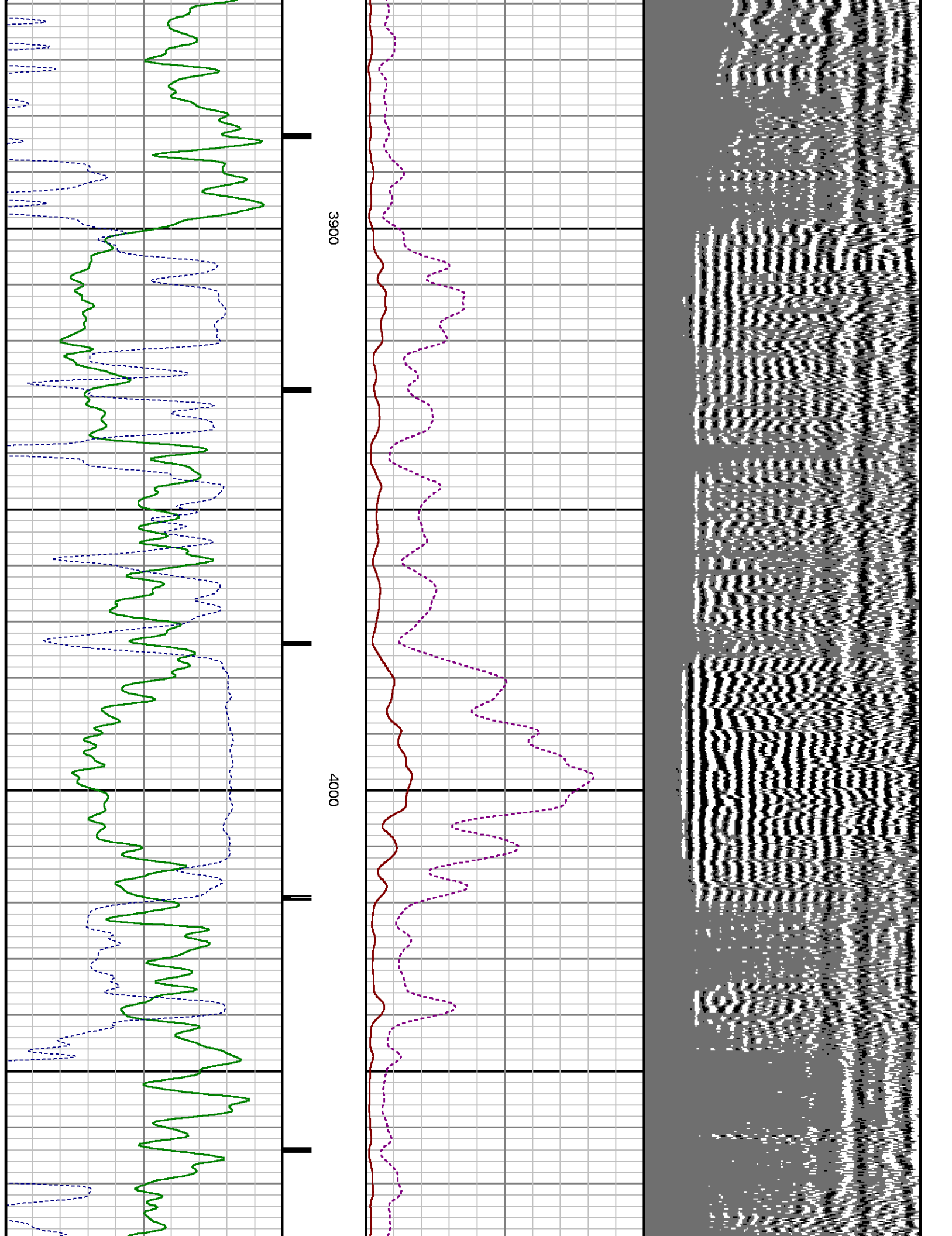


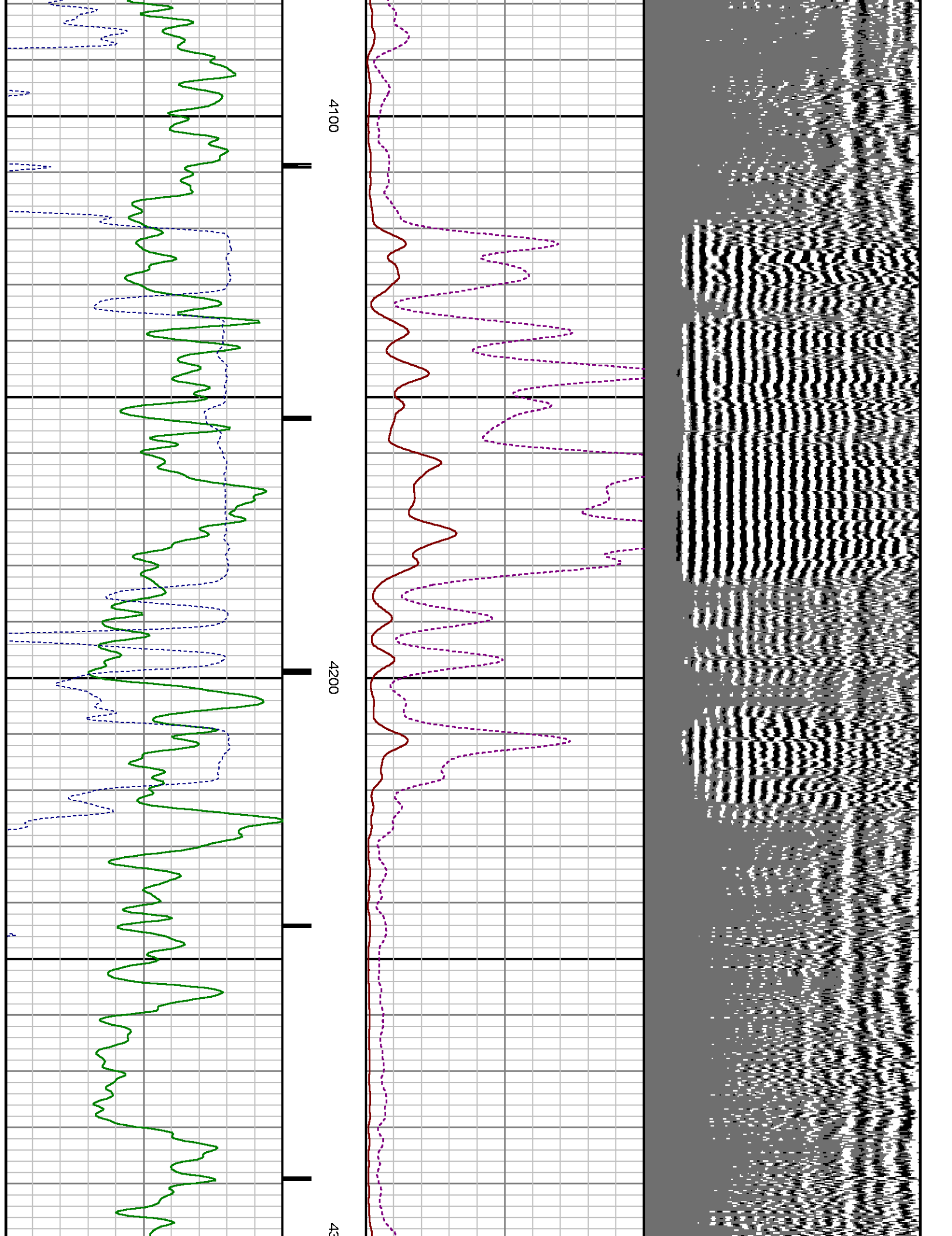


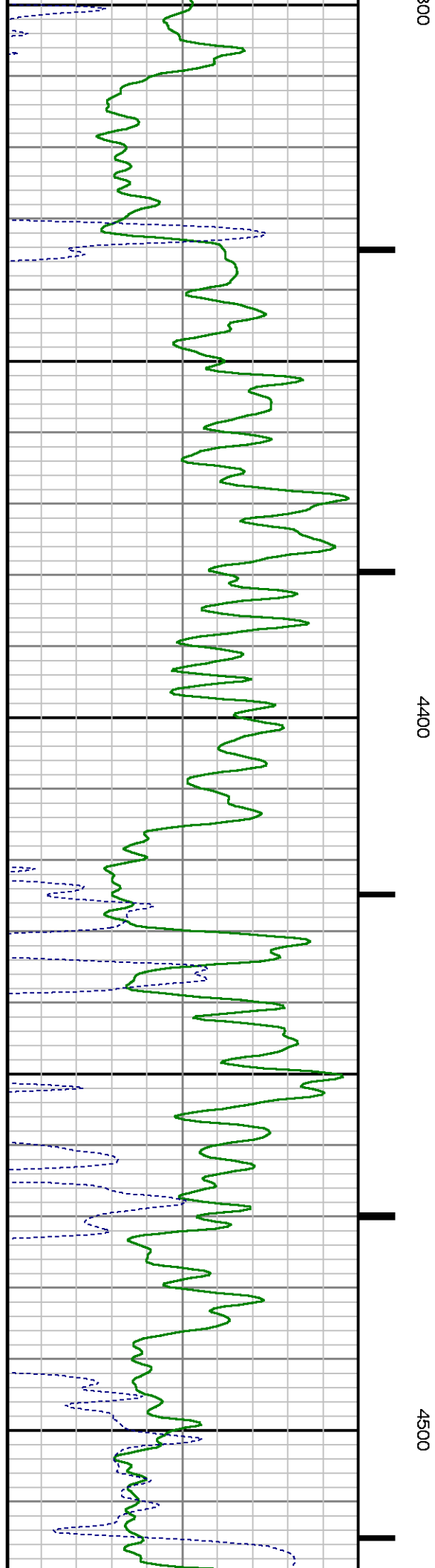
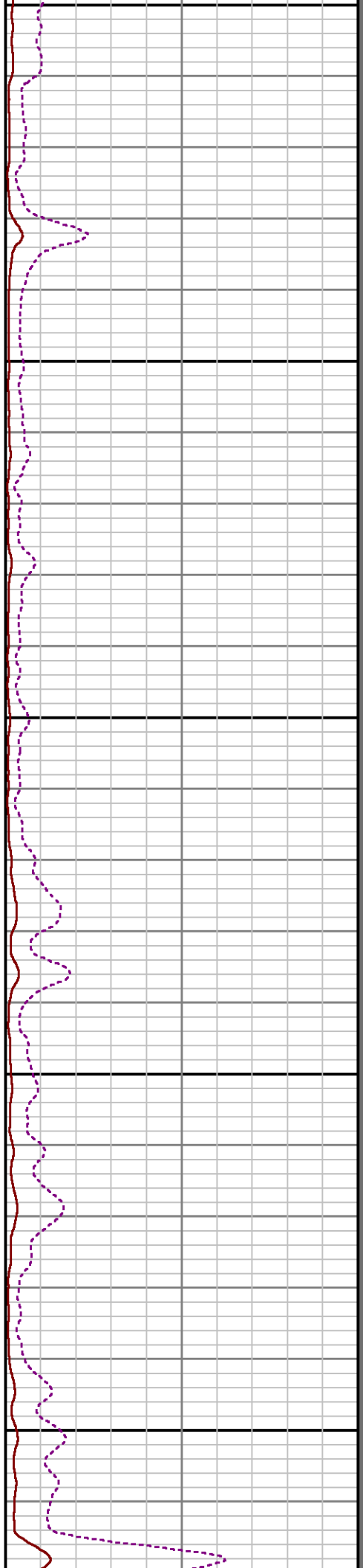
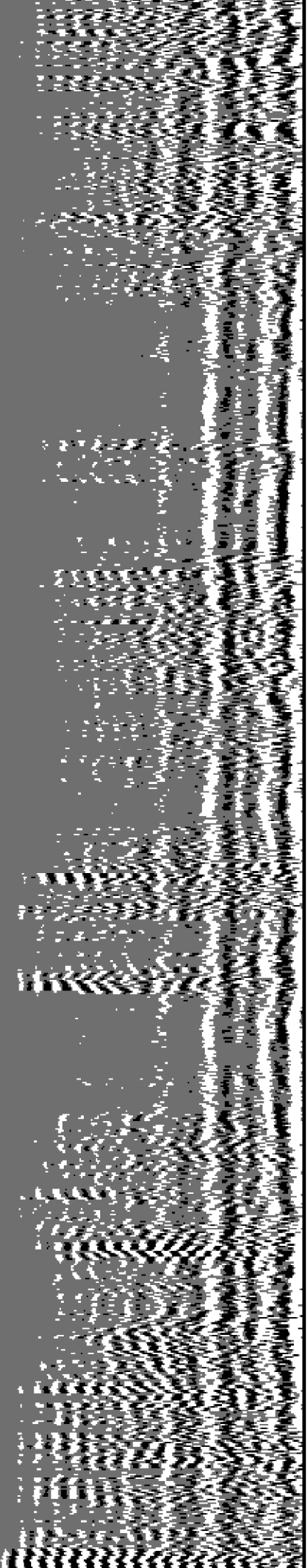


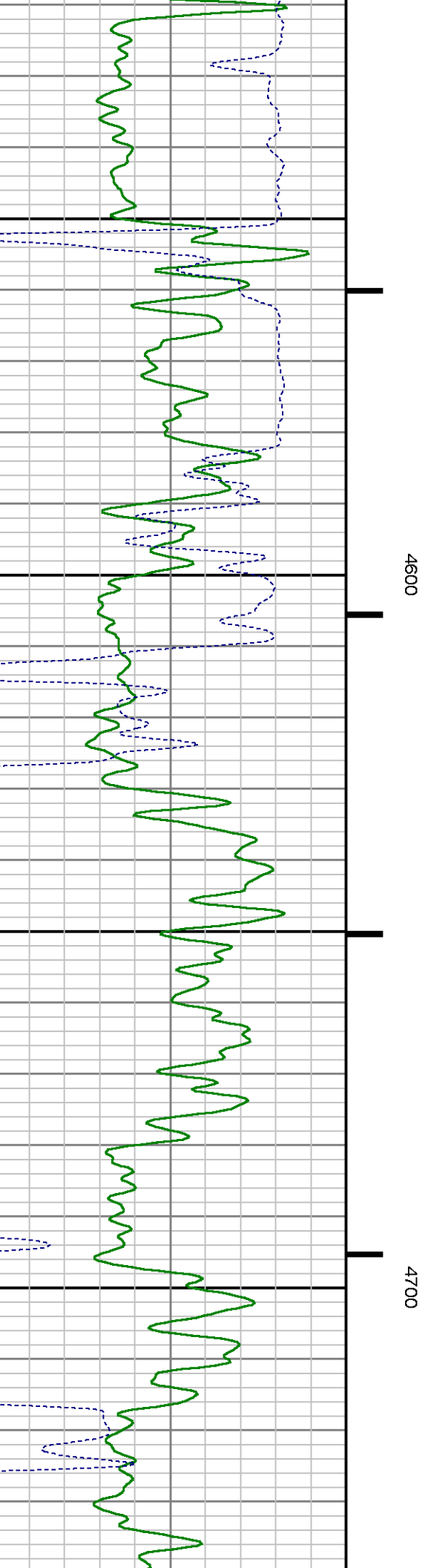
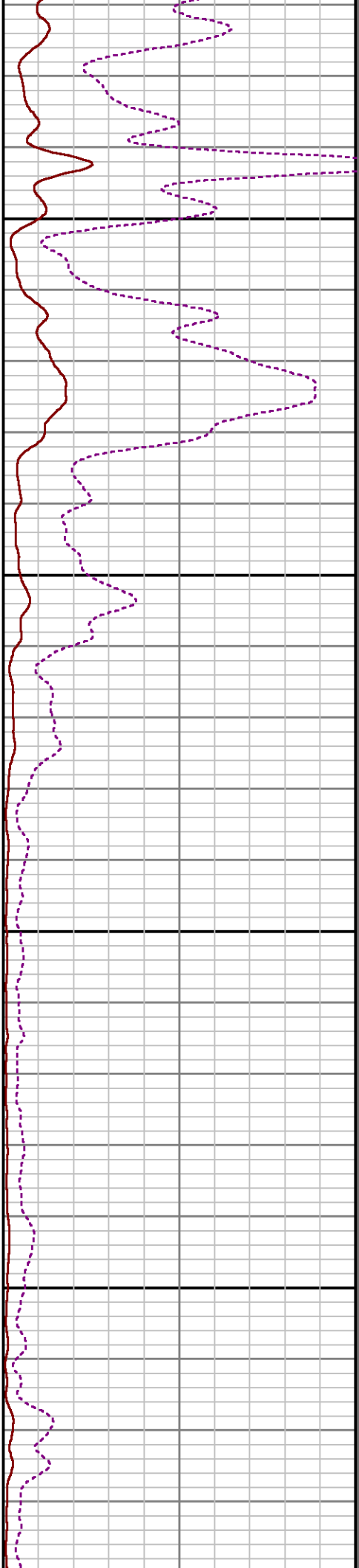
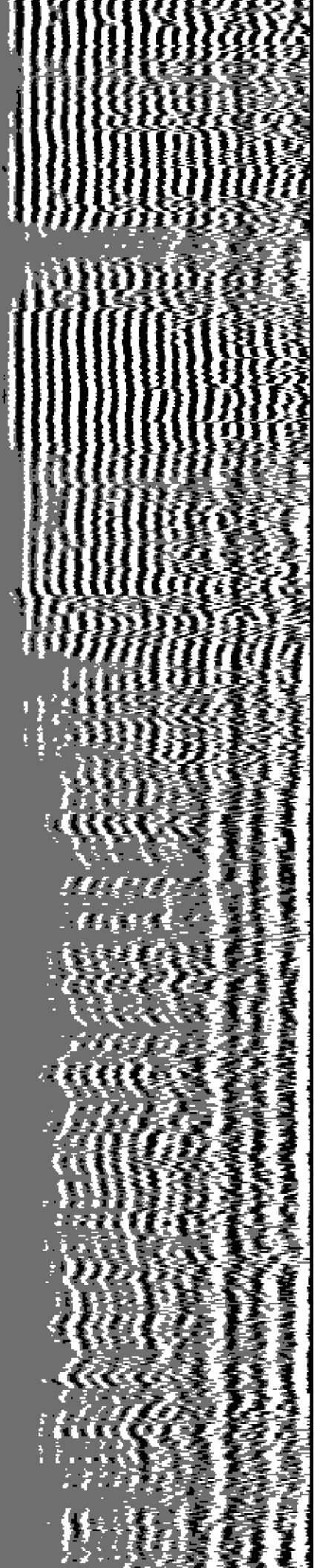


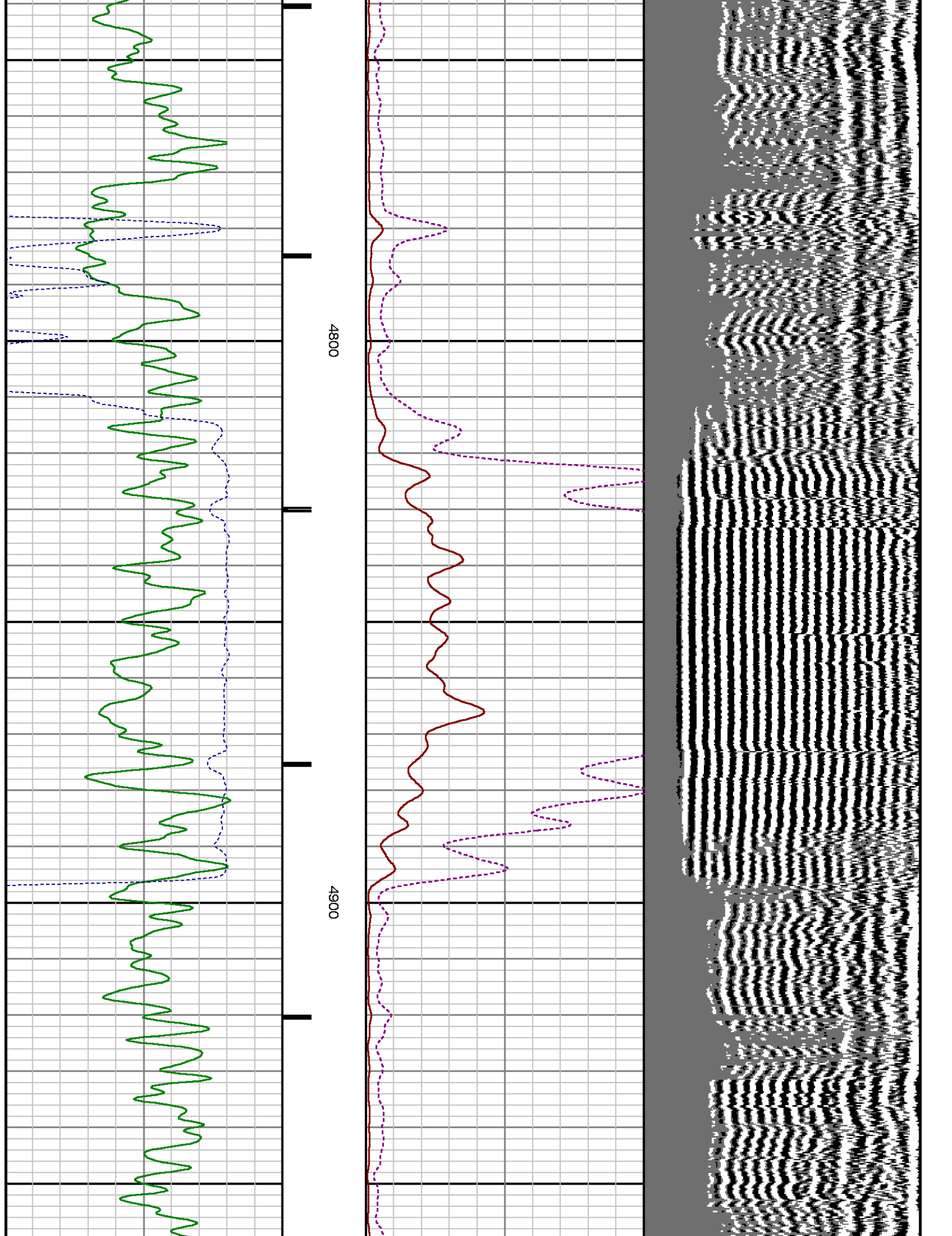


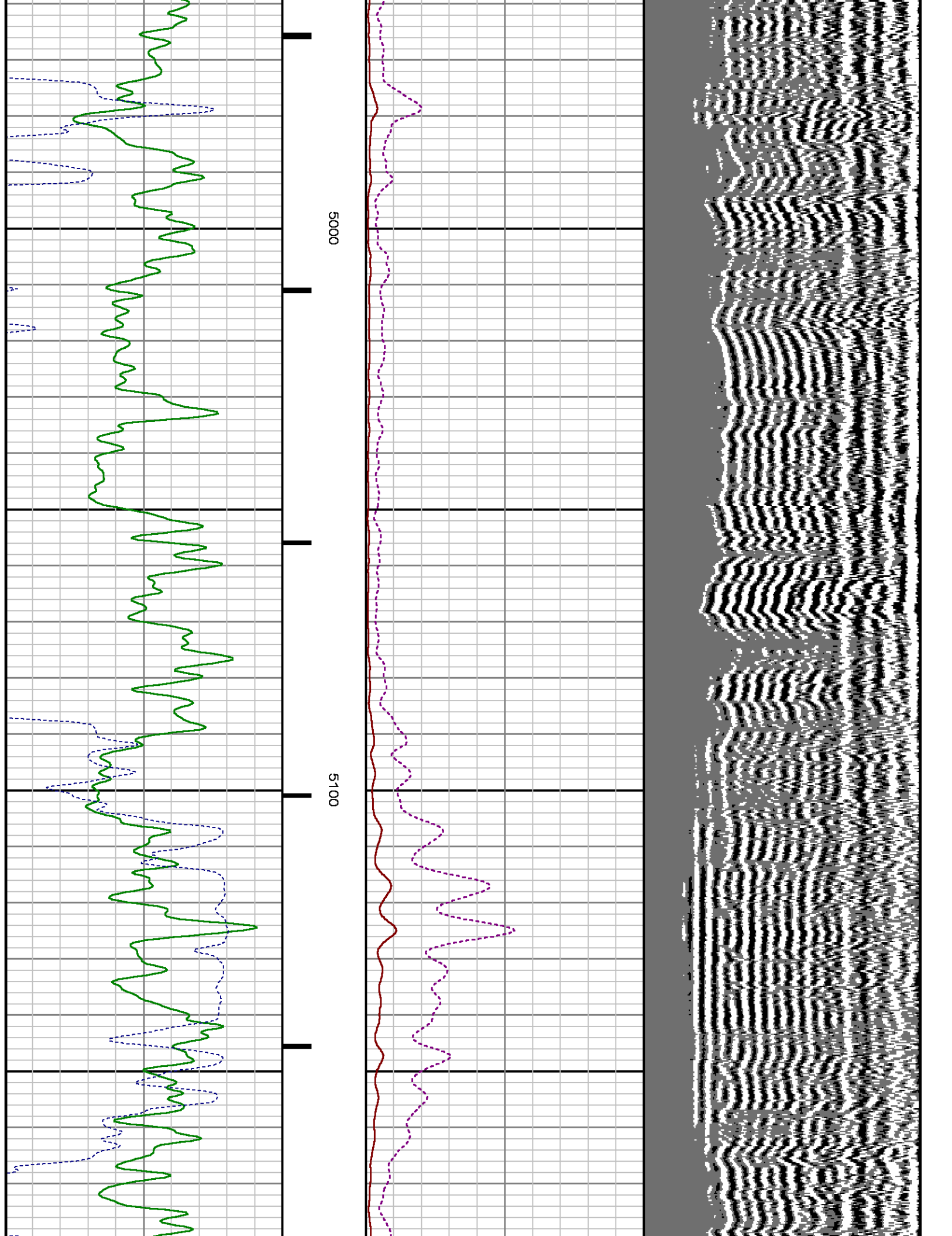


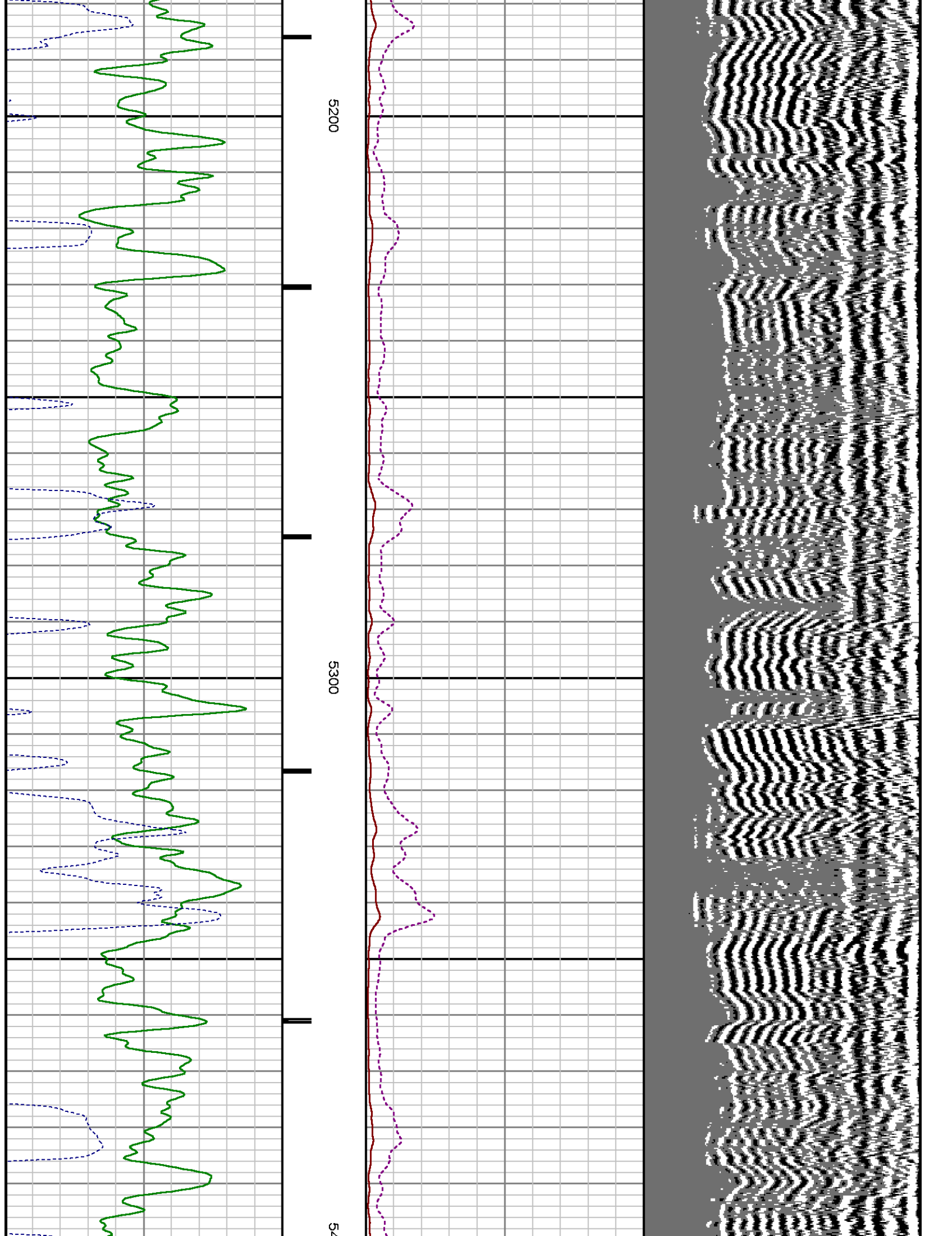


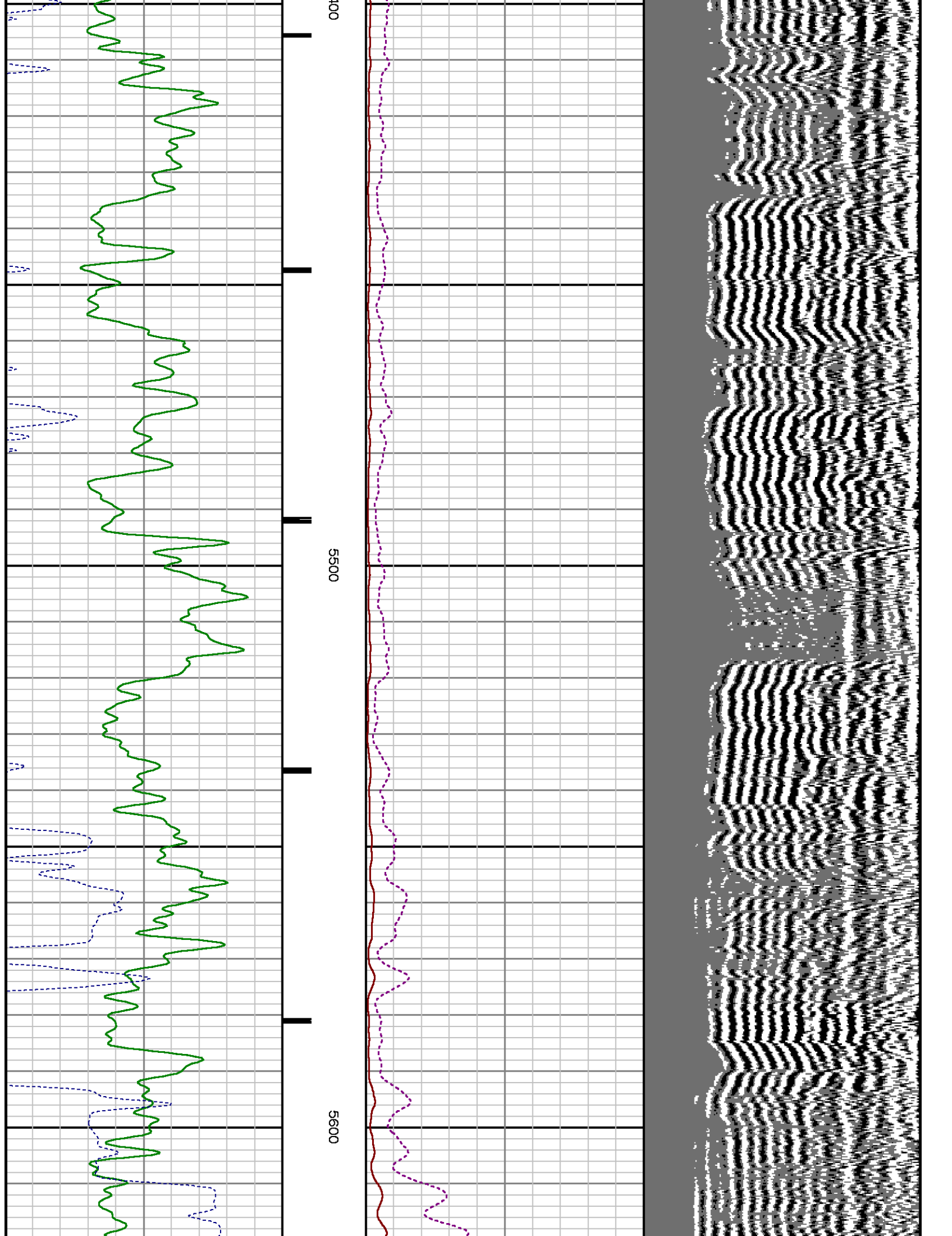


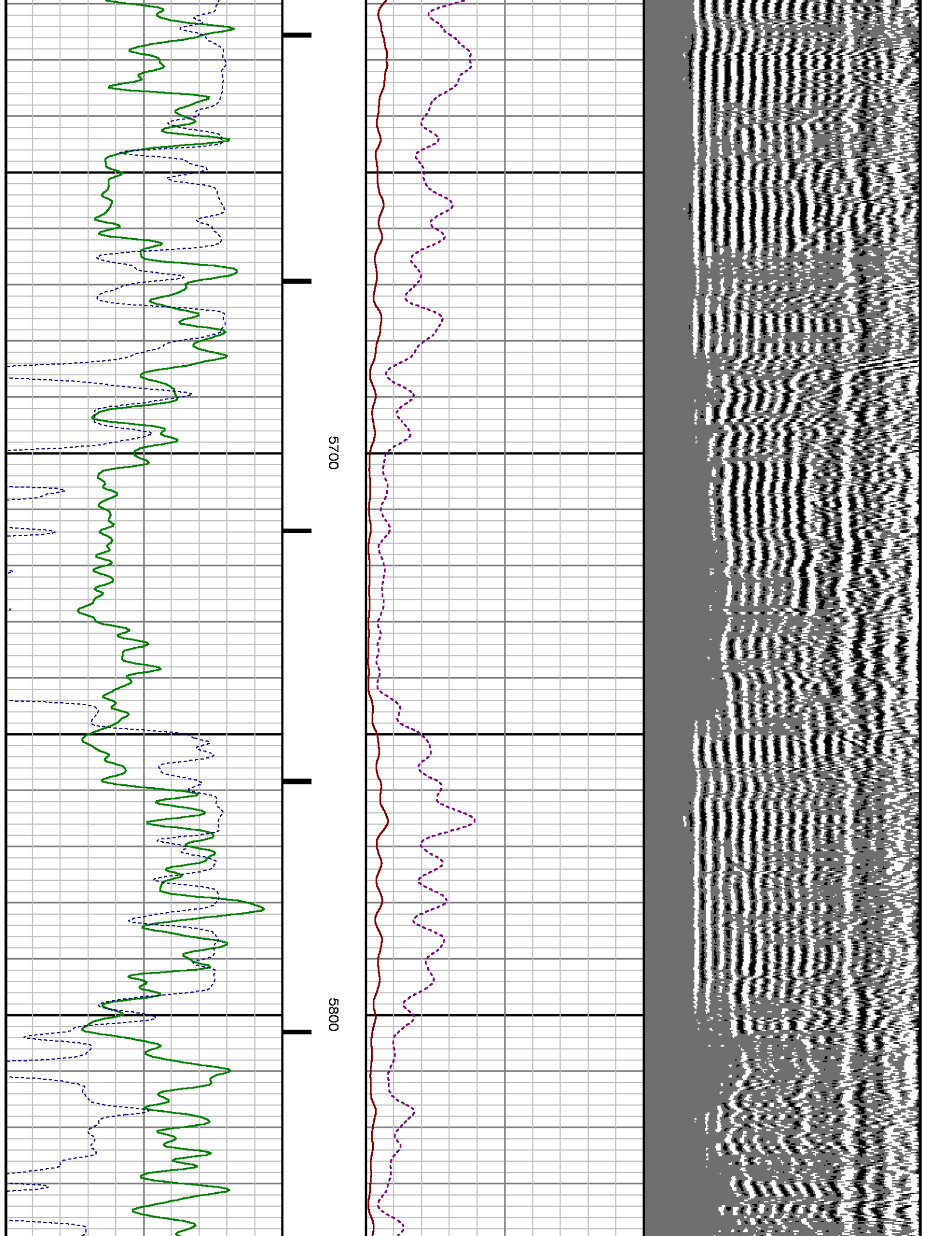


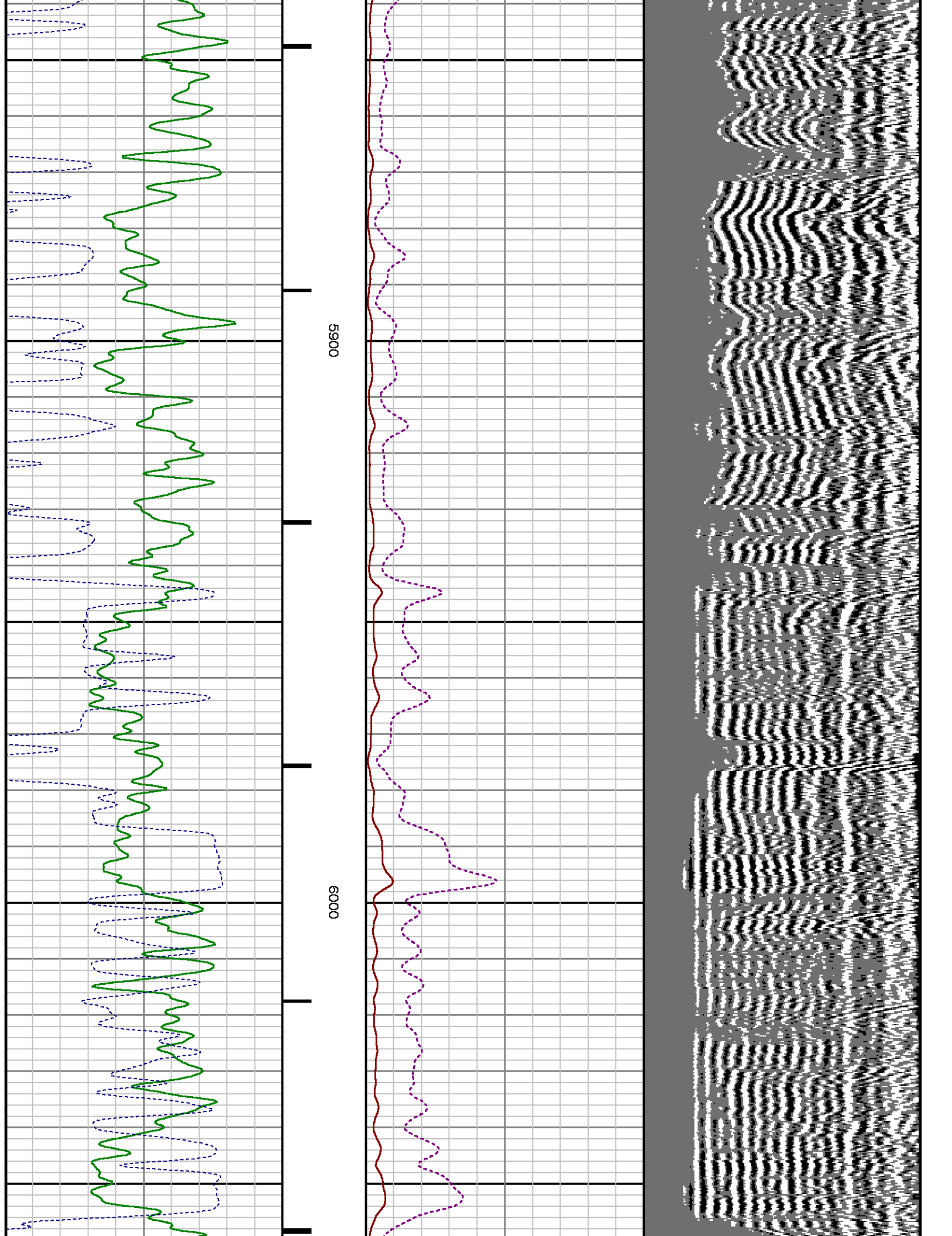


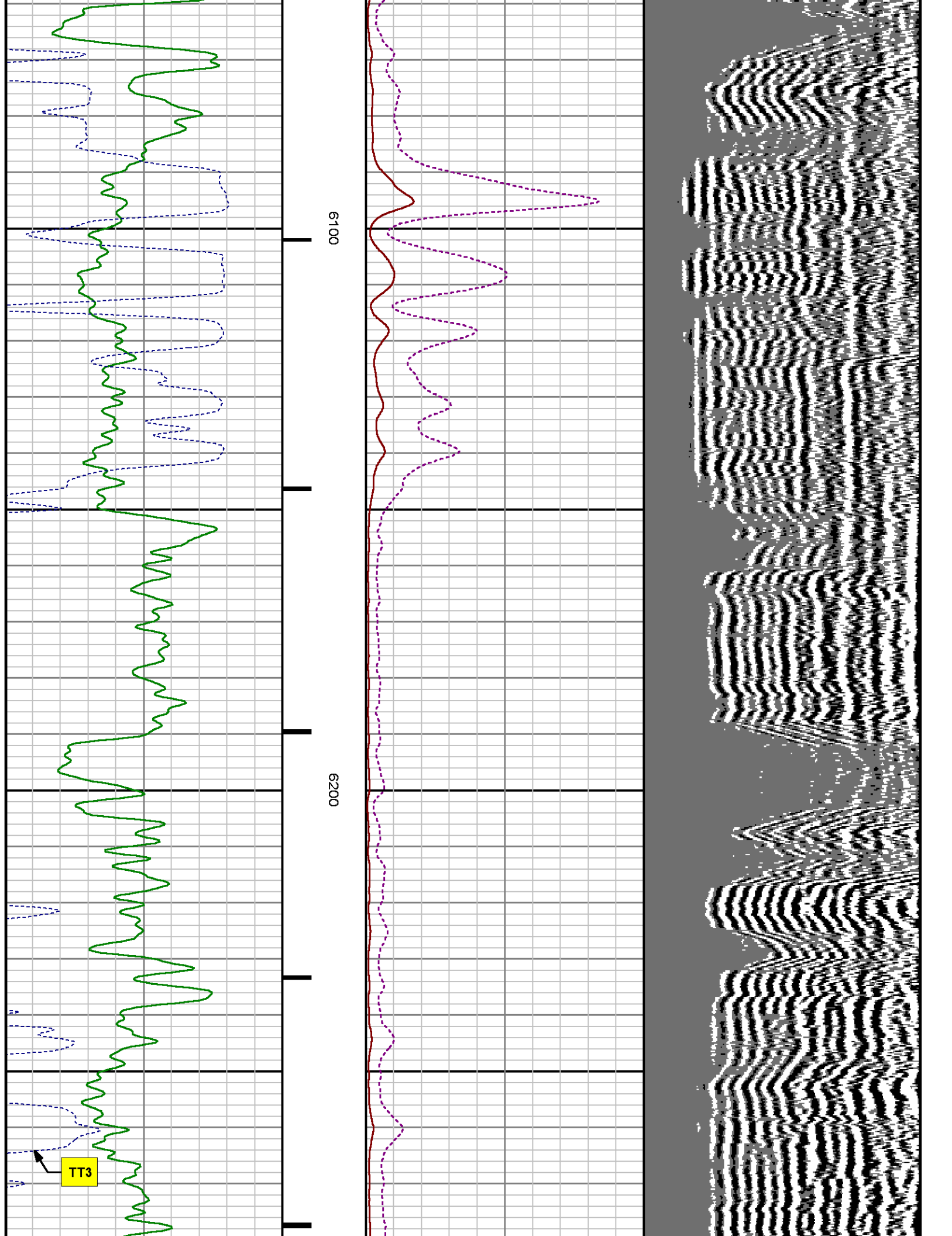


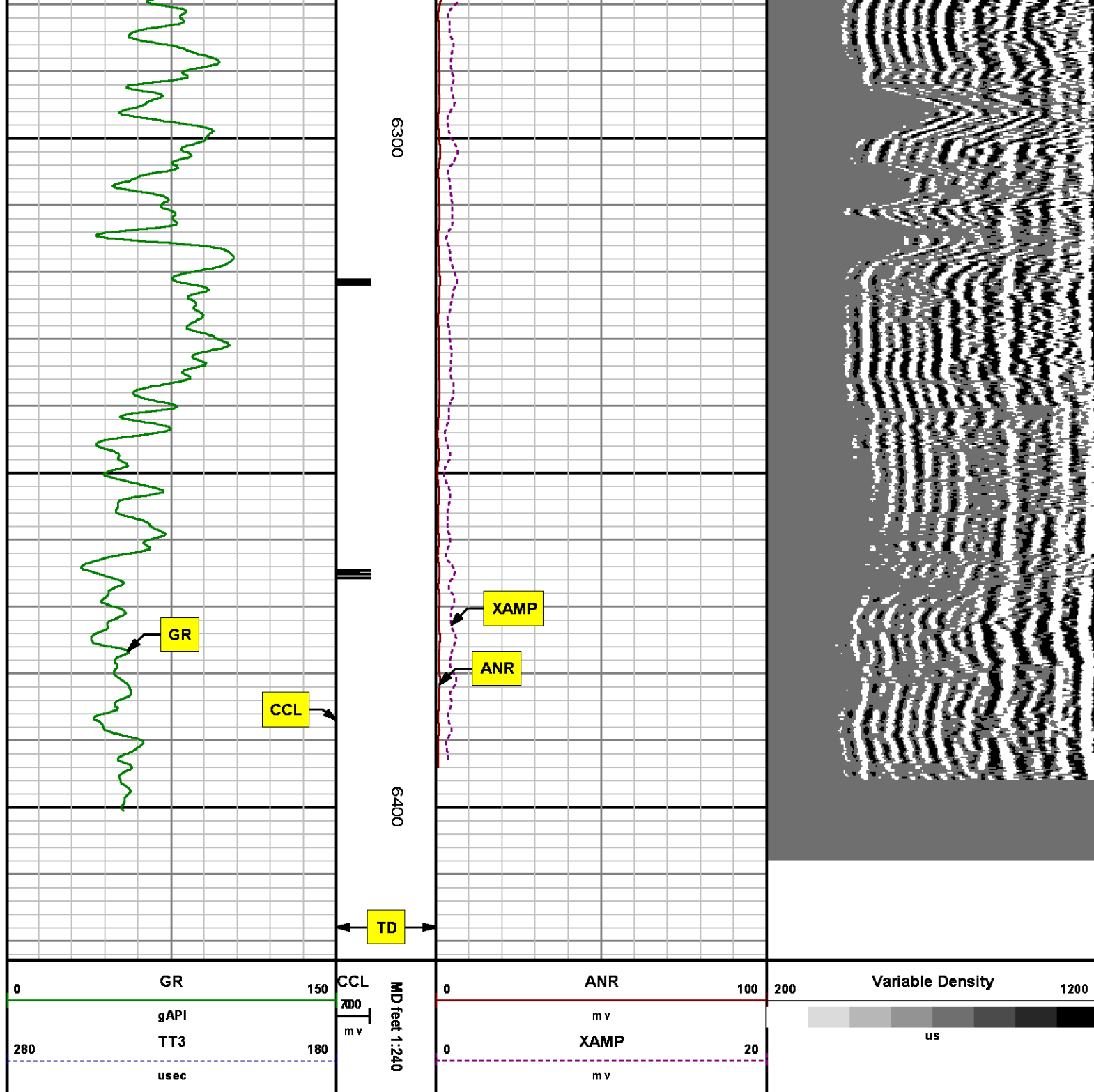












SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.125	6411.750
RAL	Amp Gate Start Near	195.000	usec	35.125	6411.750
RAL	Amp Gate Start Radial	195.000	usec	35.125	6411.750
RAL	Amp Gate Width Far	25.000	usec	35.125	6411.750
RAL	Amp Gate Width Near	25.000	usec	35.125	6411.750
RAL	Amp Gate Width Radial	25.000	usec	35.125	6411.750
RAL	casing od	4.500	inches	35.125	6411.750
RAL	casing wt	11.600	lbm/ft	35.125	6411.750
RAL	FB Start Far	291.900	usec	35.125	6411.750
RAL	FB Start Near	175.391	usec	35.125	6411.750
RAL	FB Start Radial	175.391	usec	35.125	6411.750
RAL	FB Thresh Far	10.000	mV	35.125	6411.750
RAL	FB Thresh Near	4.000	mV	35.125	6411.750
RAL	FB Thresh Radial	4.000	mV	35.125	6411.750
RAL	Fluid Travel Time	200.000	usec/ft	35.125	6411.750

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

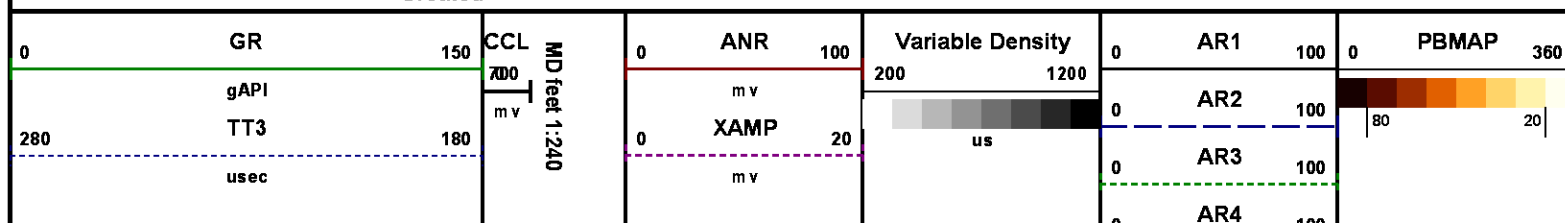
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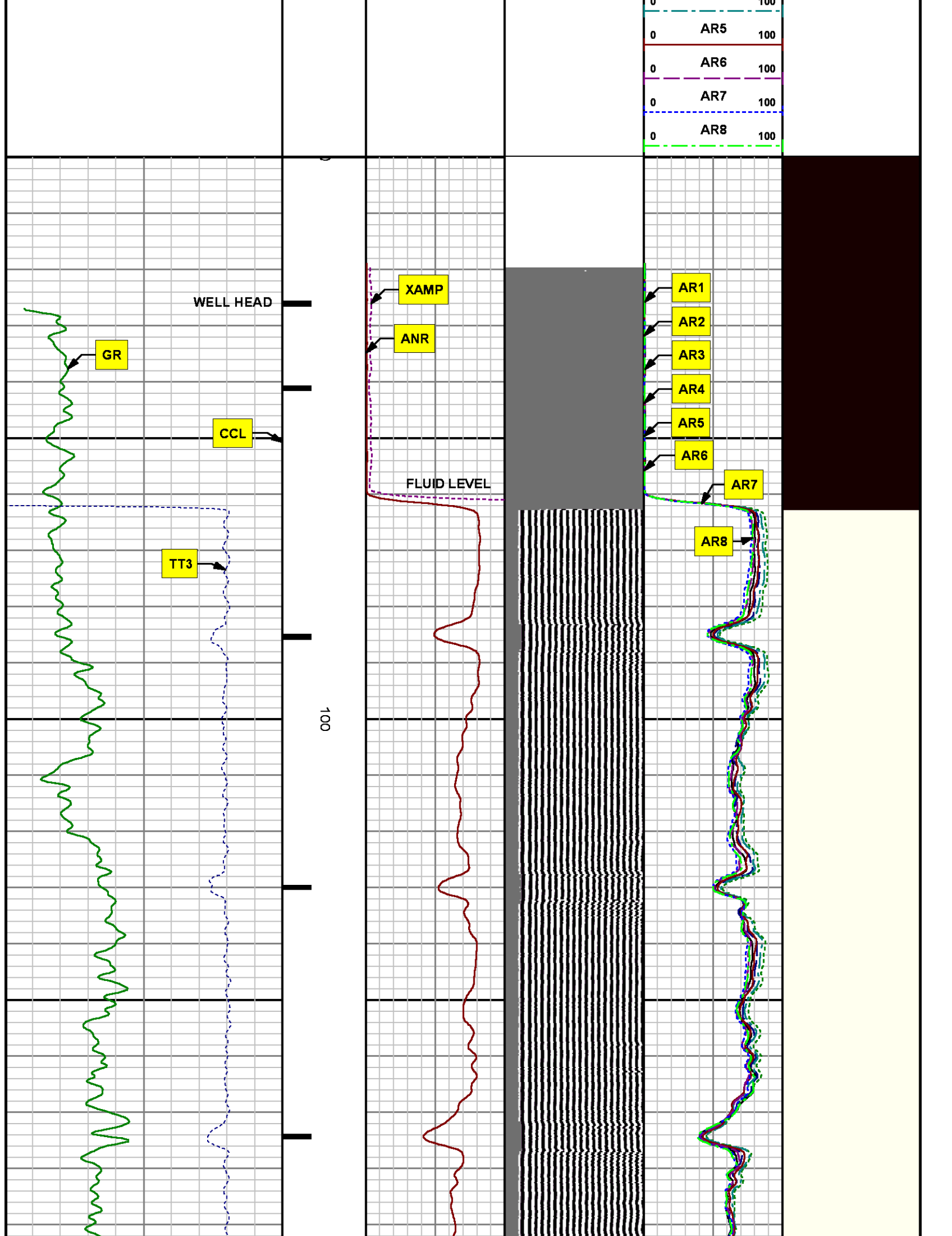
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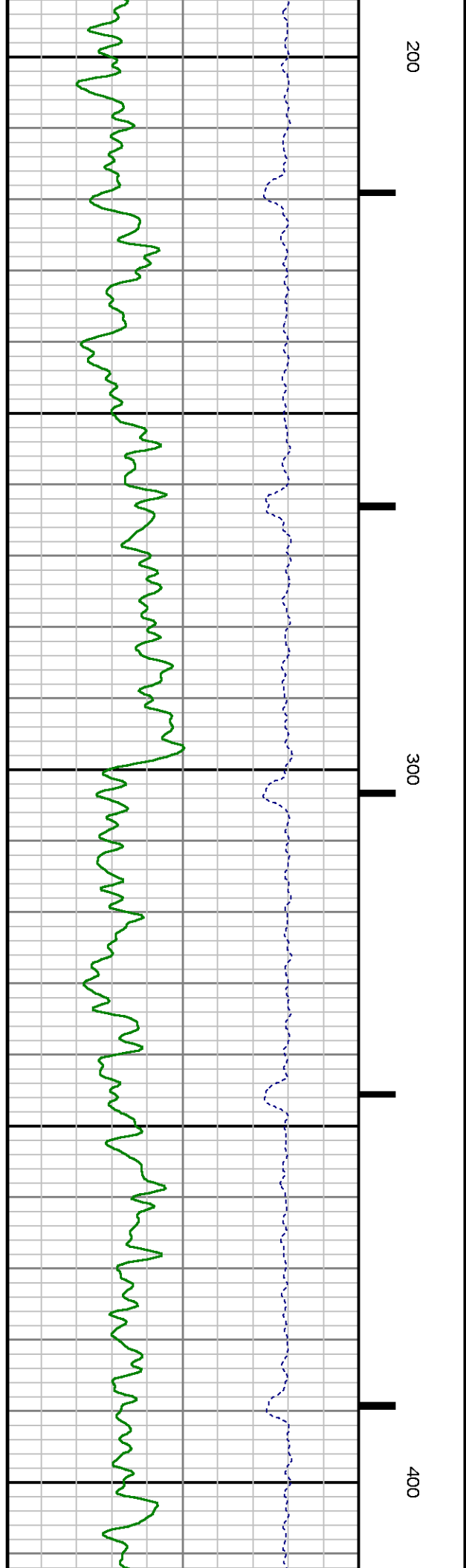
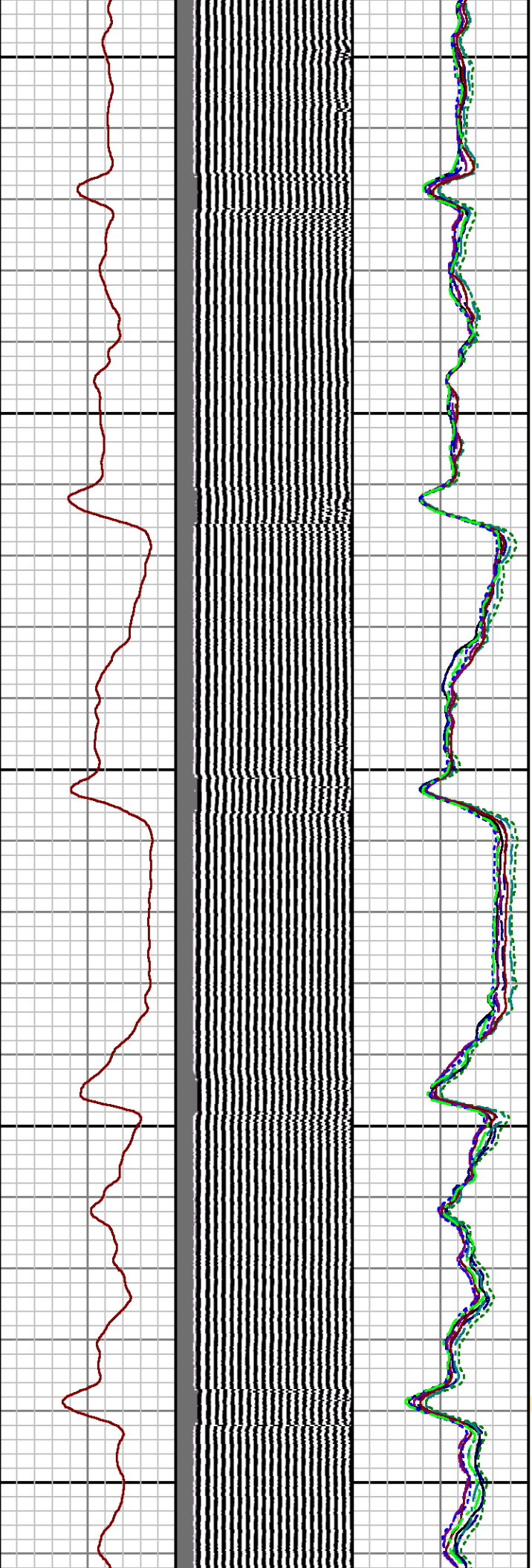
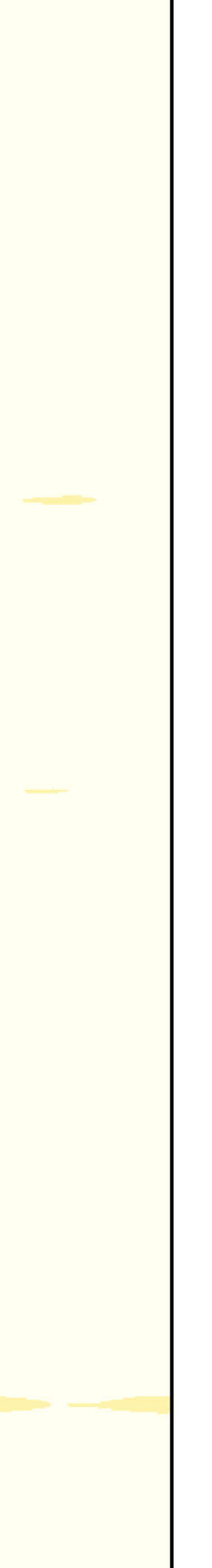
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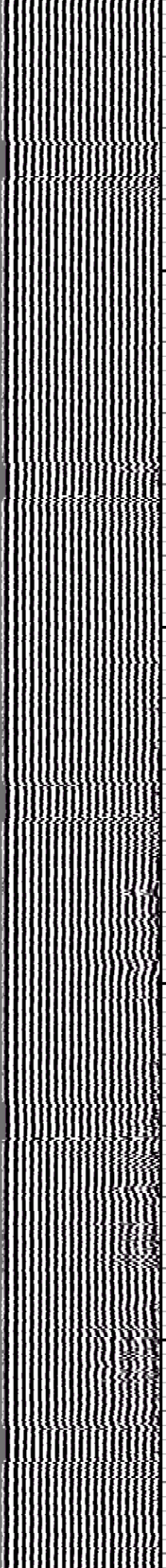
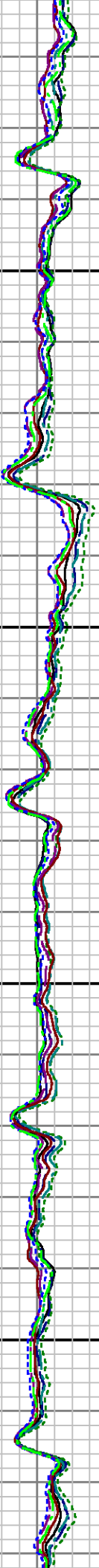
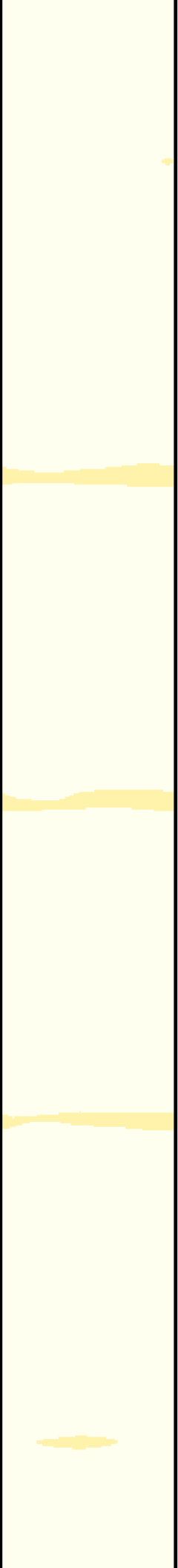
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0	AR5	100
0	AR6	100
0	AR7	100
0	AR8	100



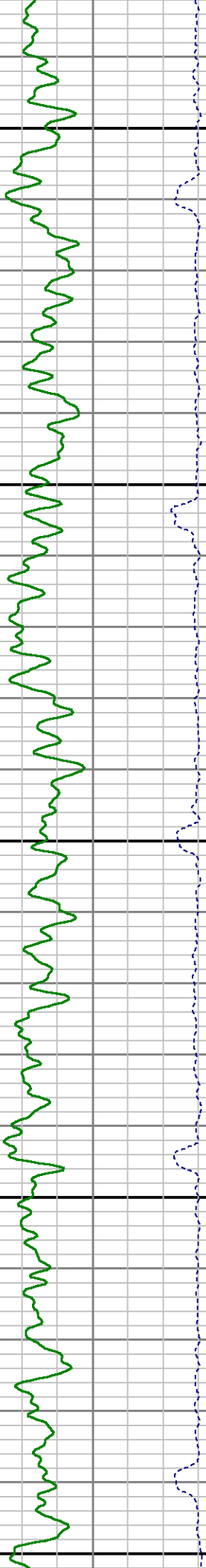
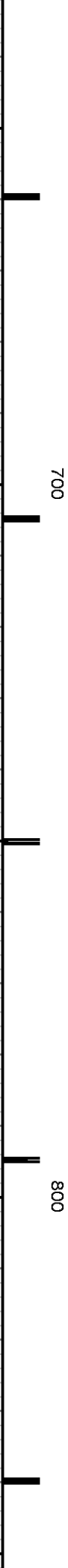
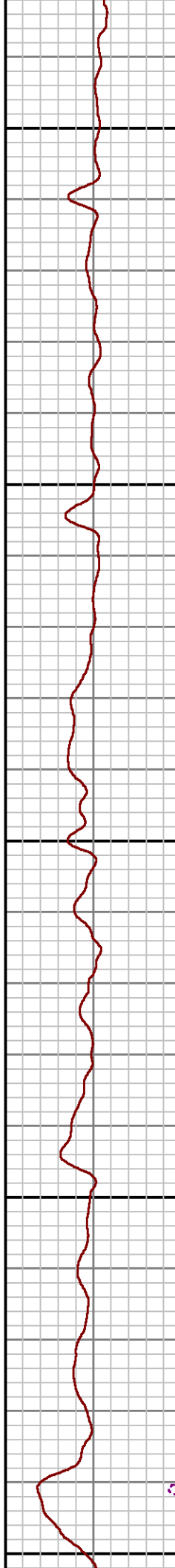
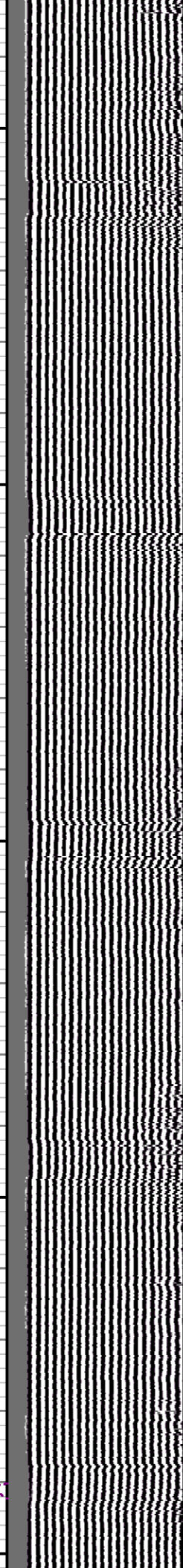
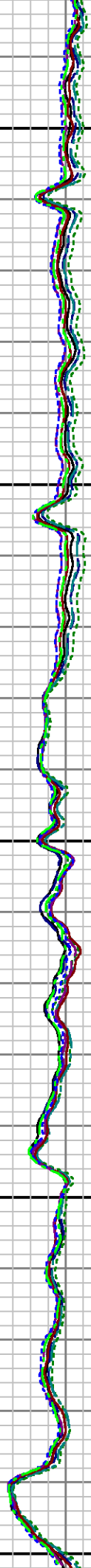
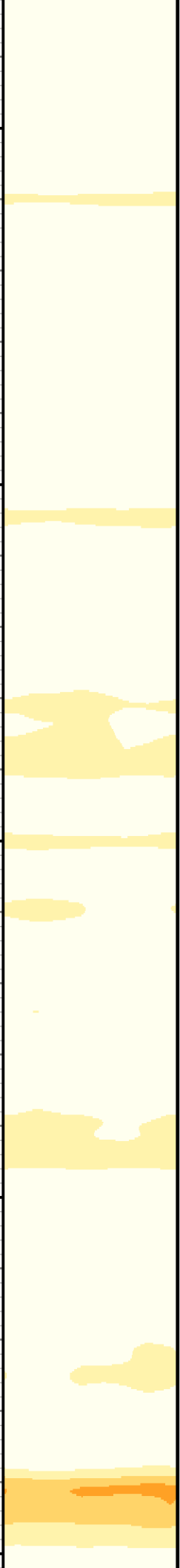


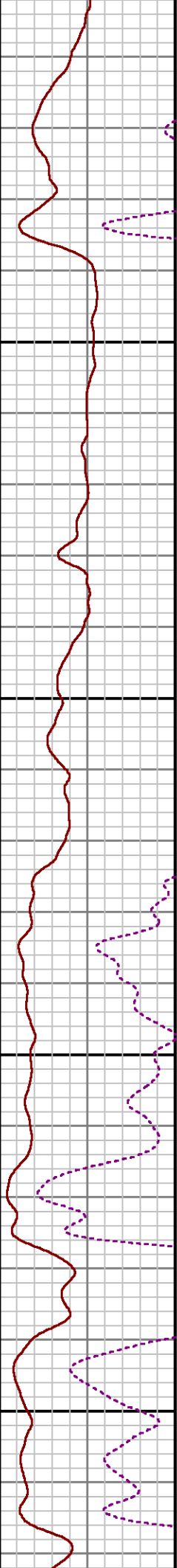
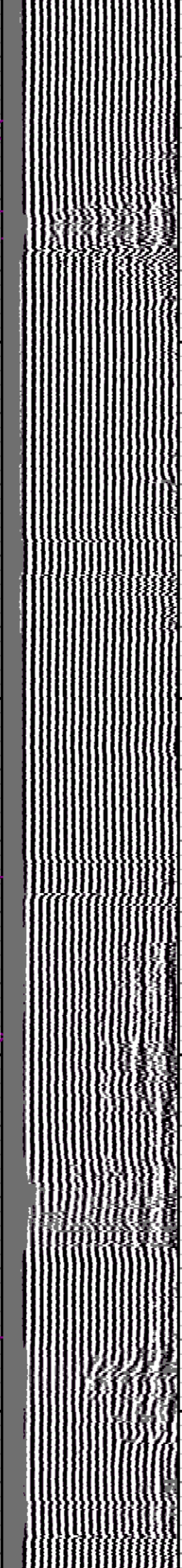
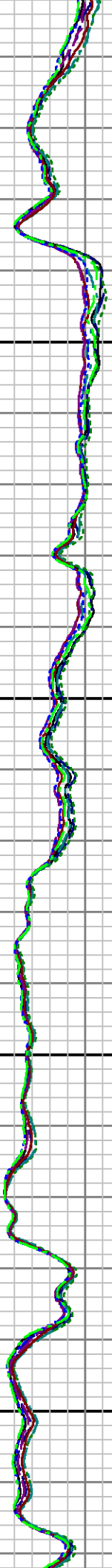
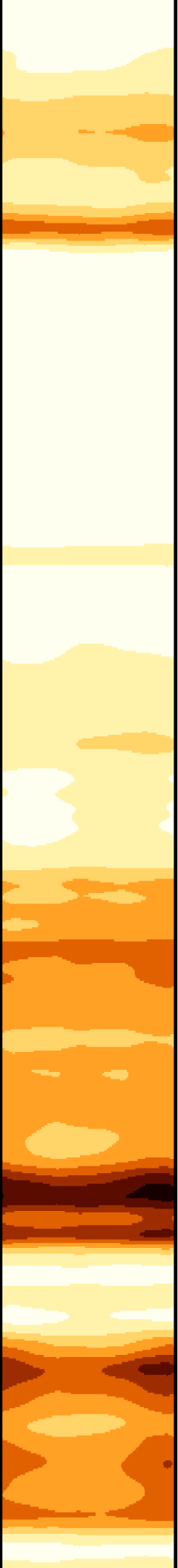


500

600

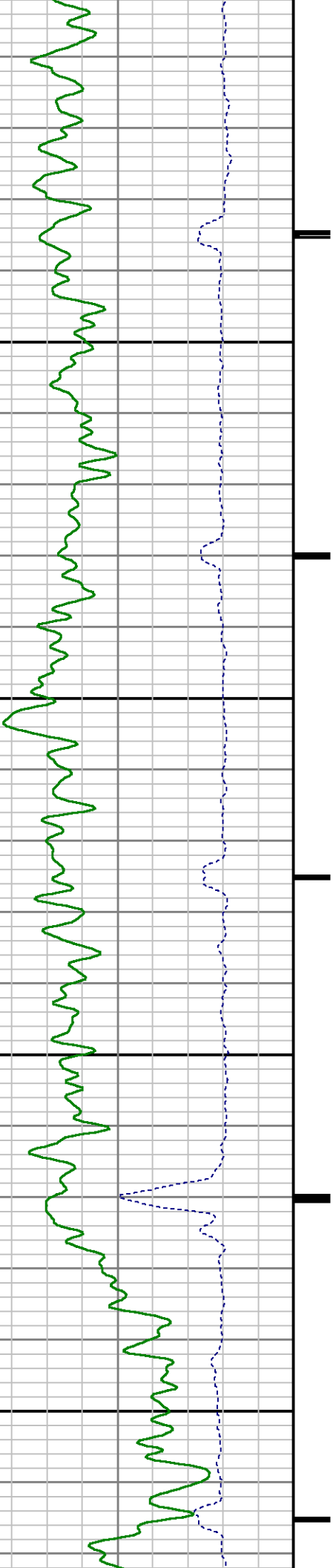


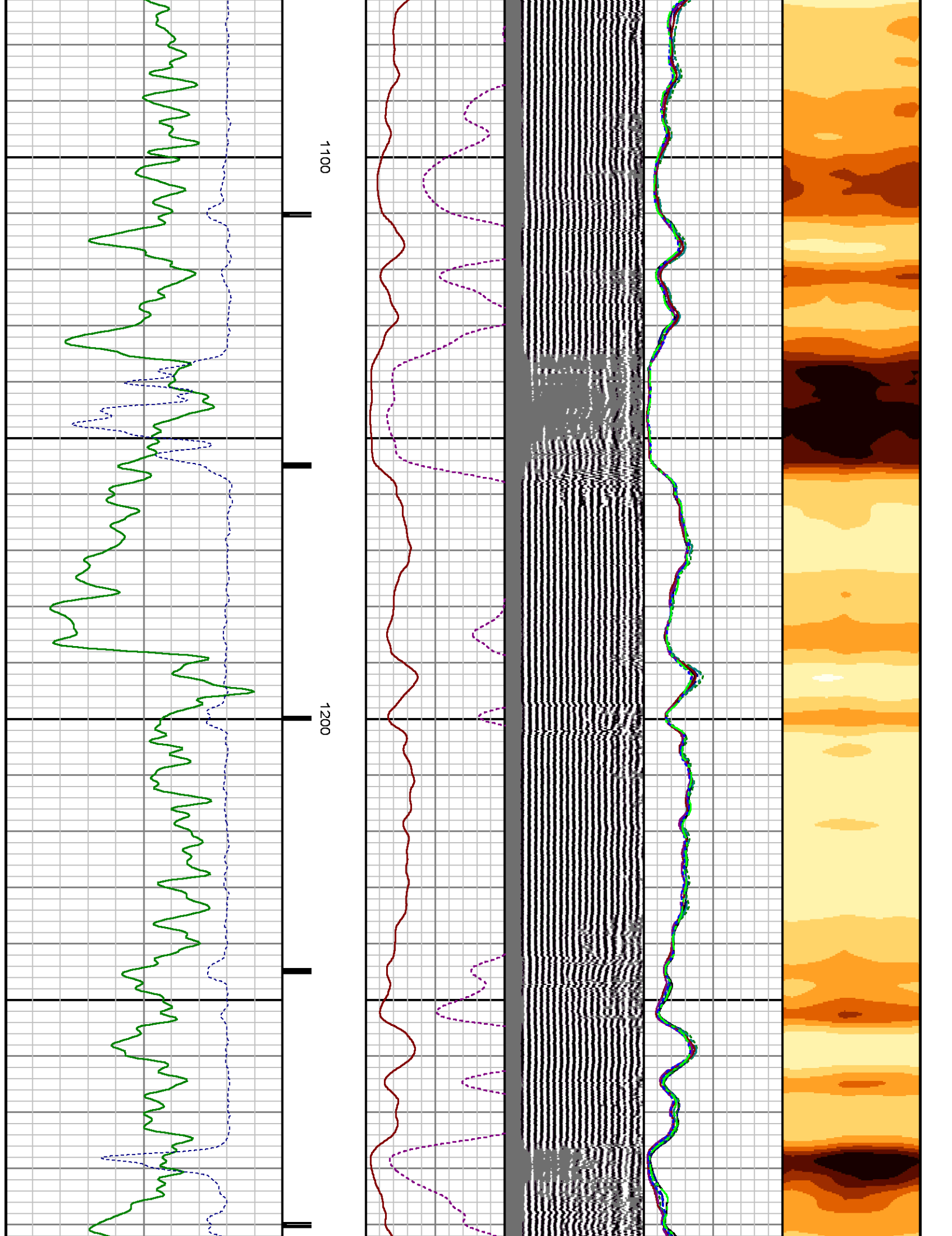


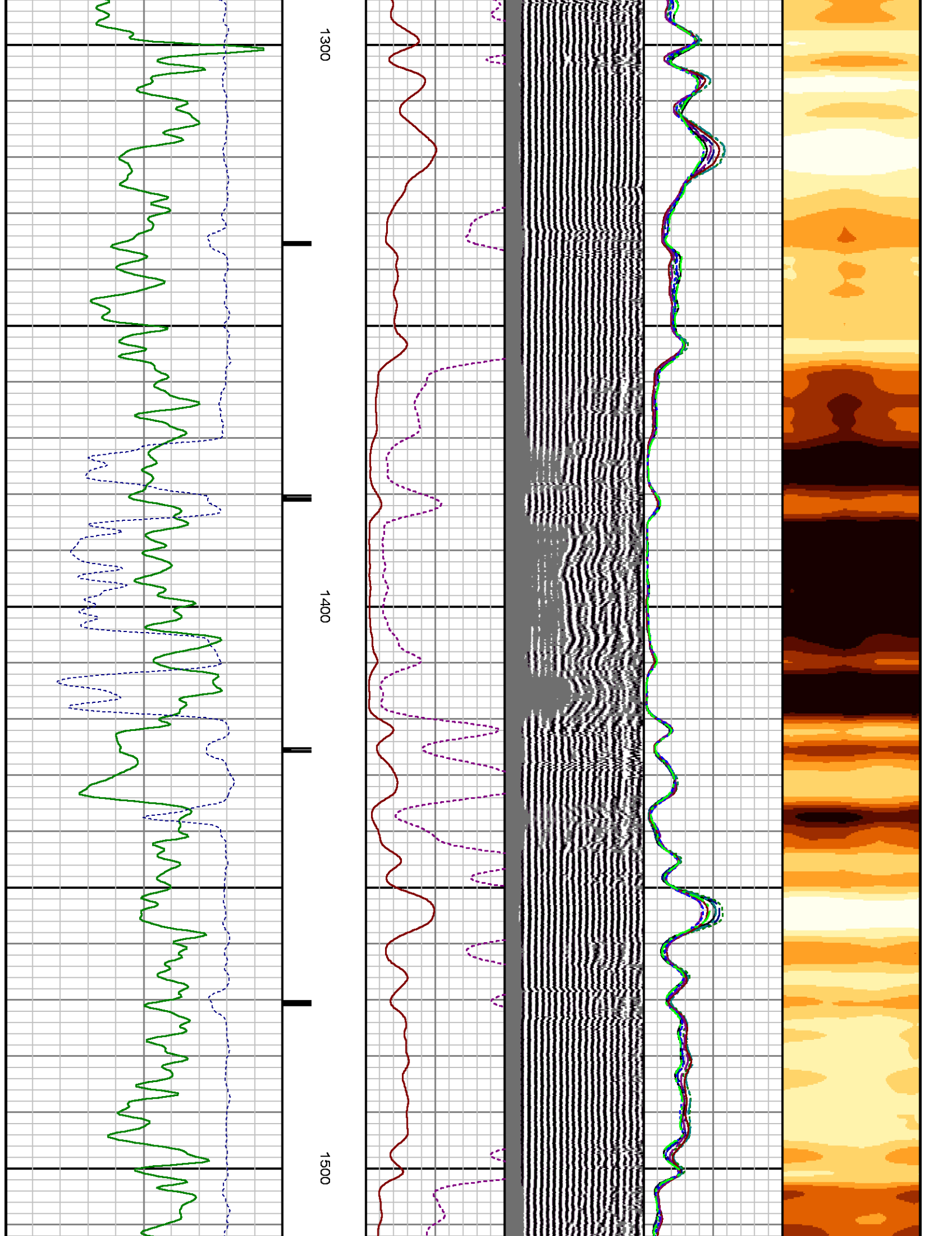


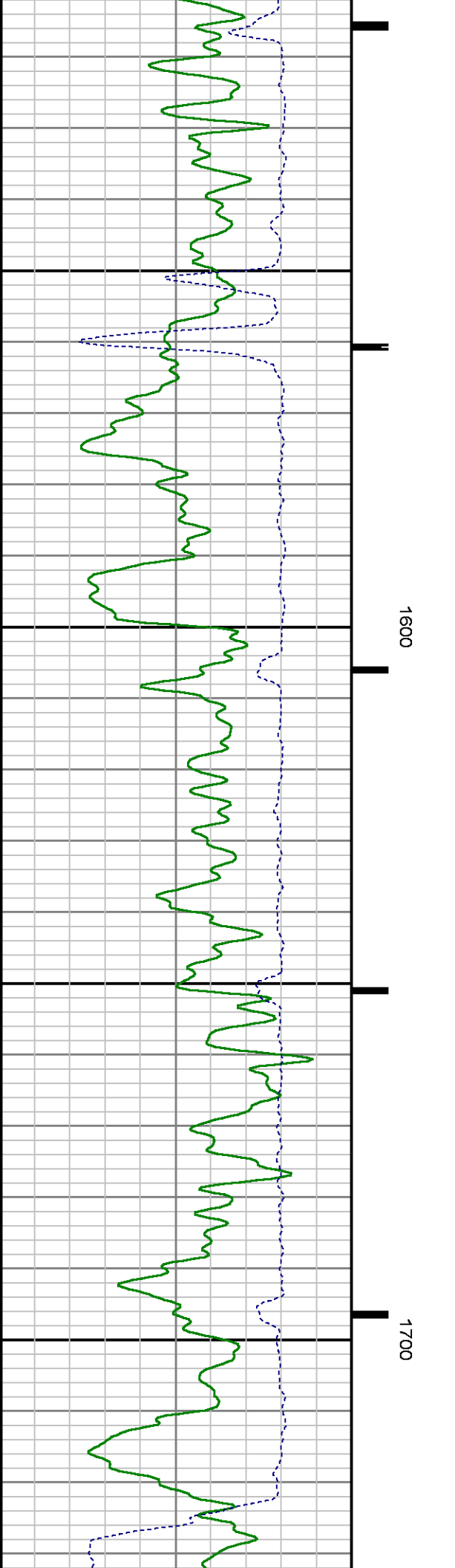
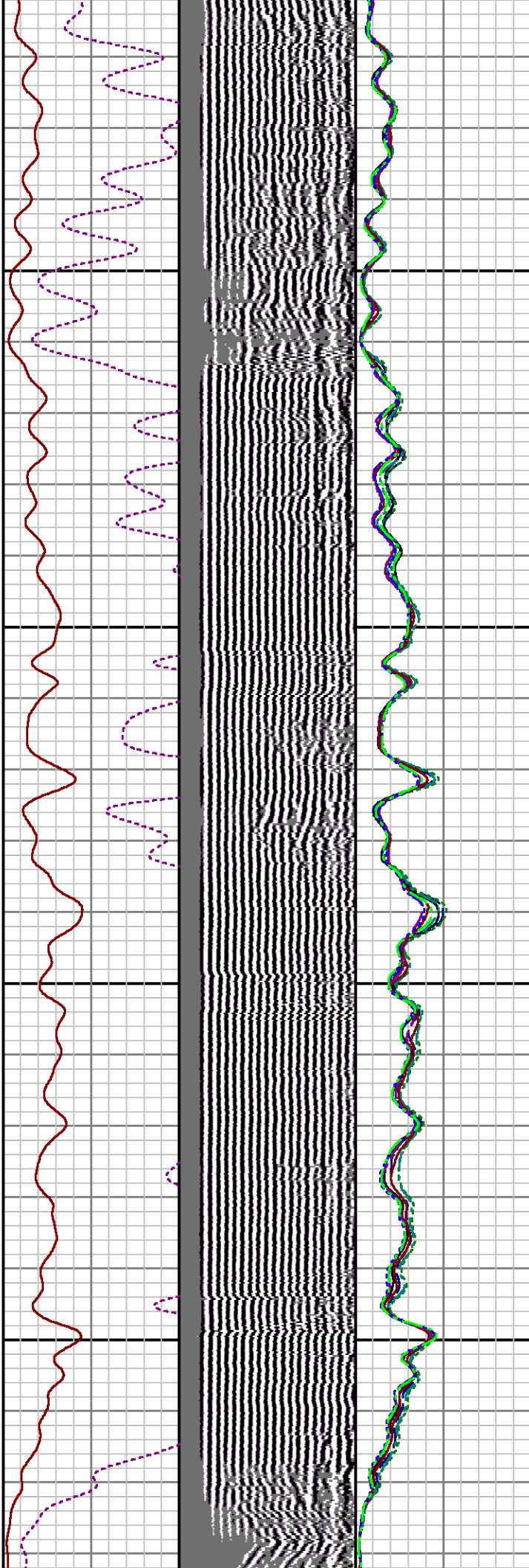
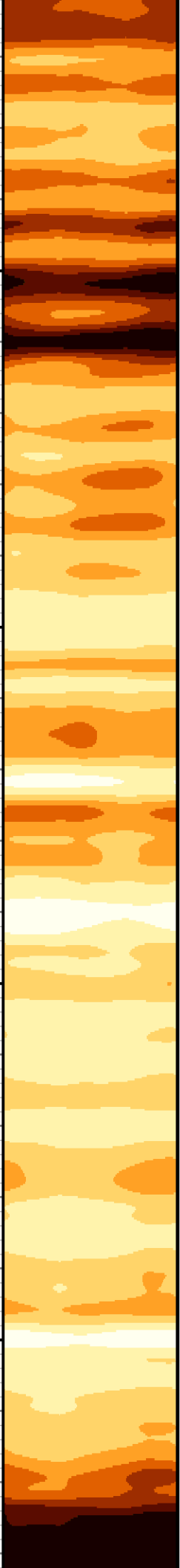
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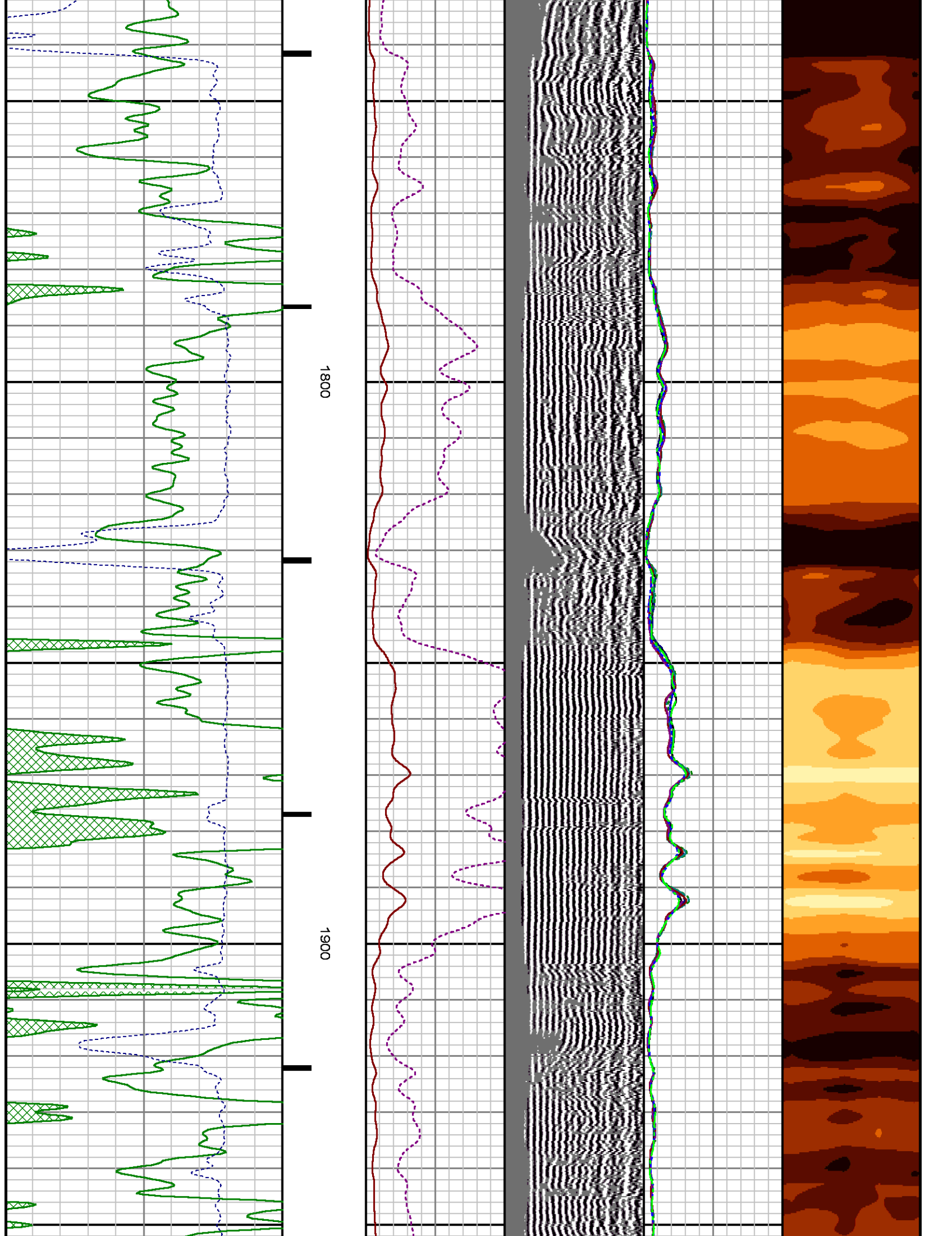
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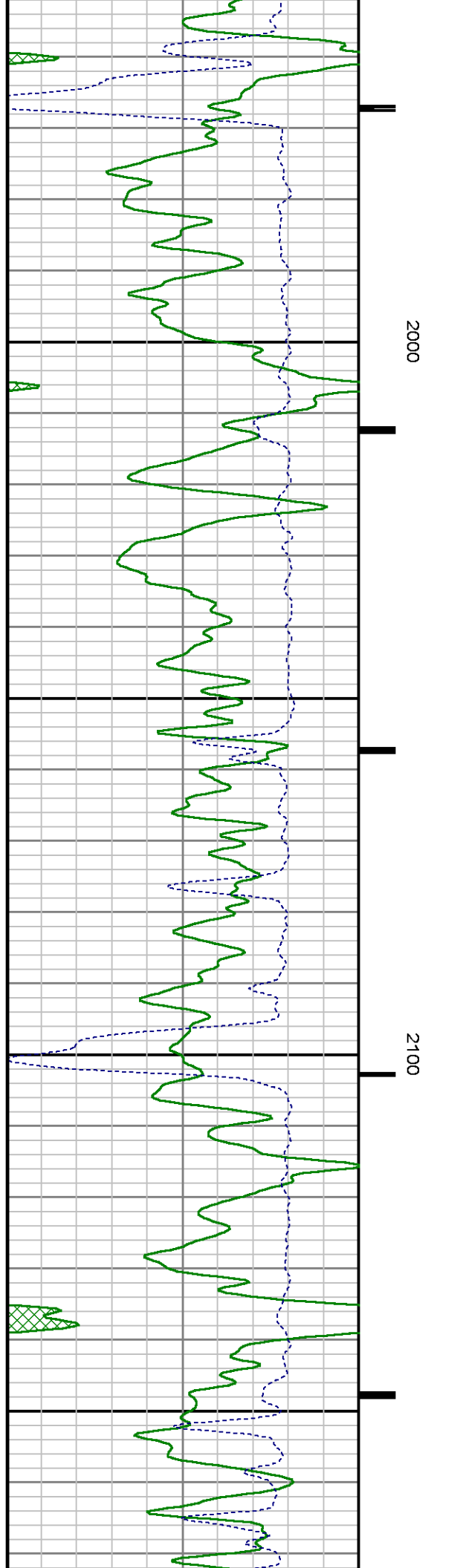
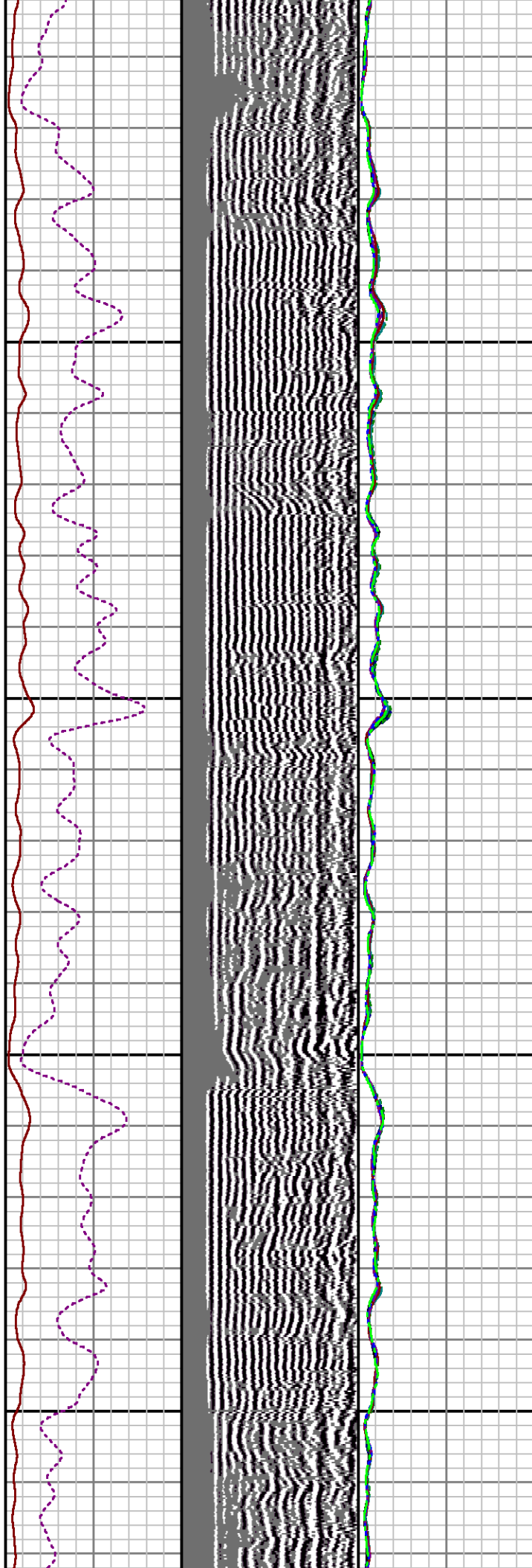


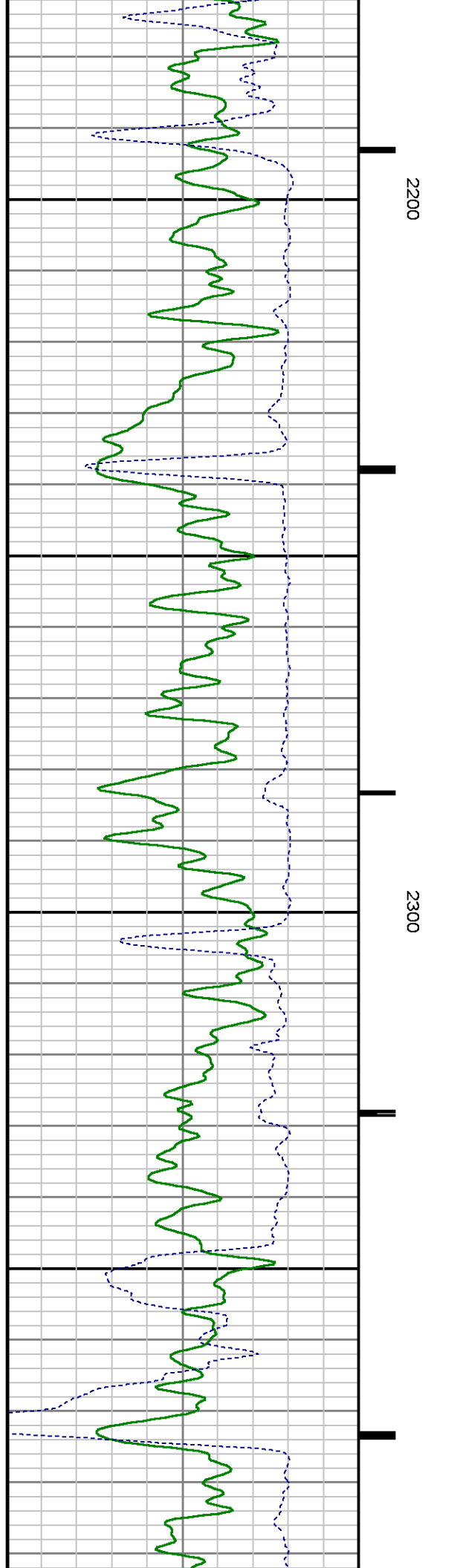
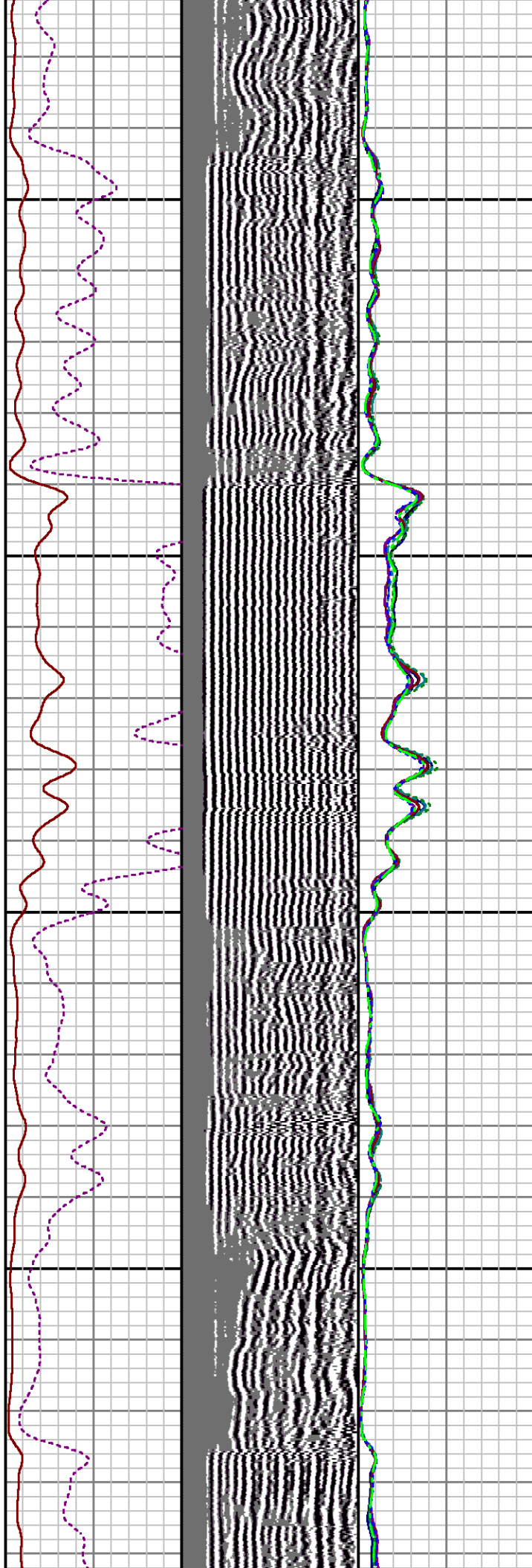
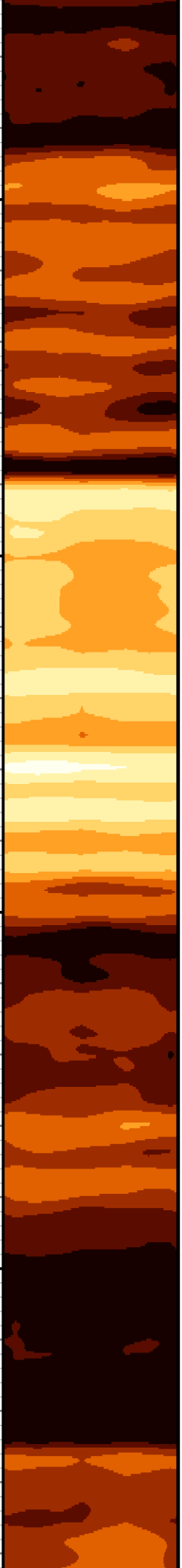


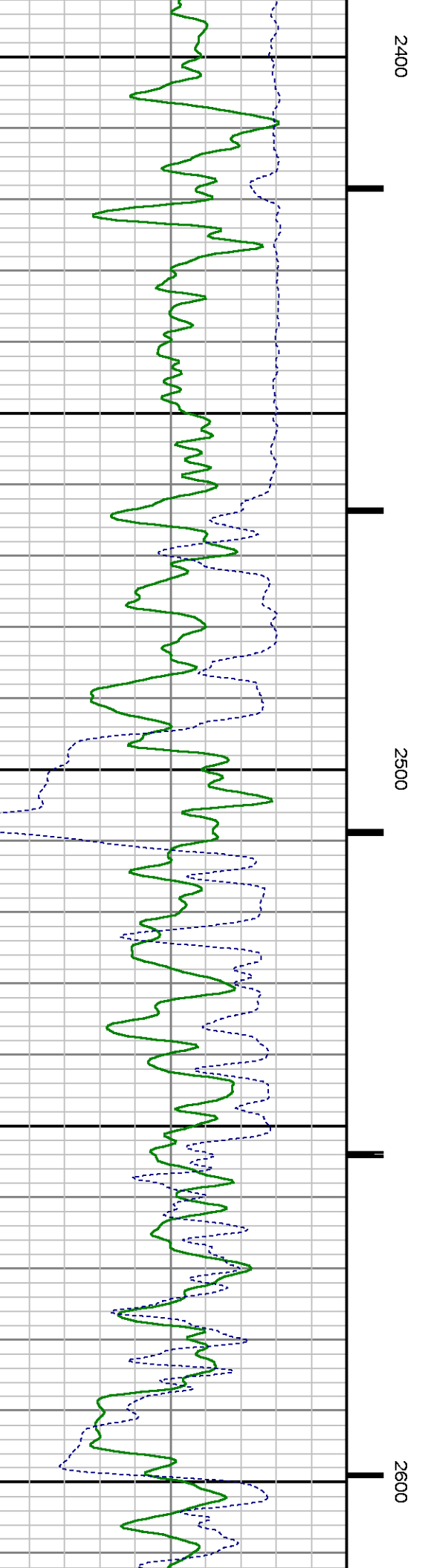
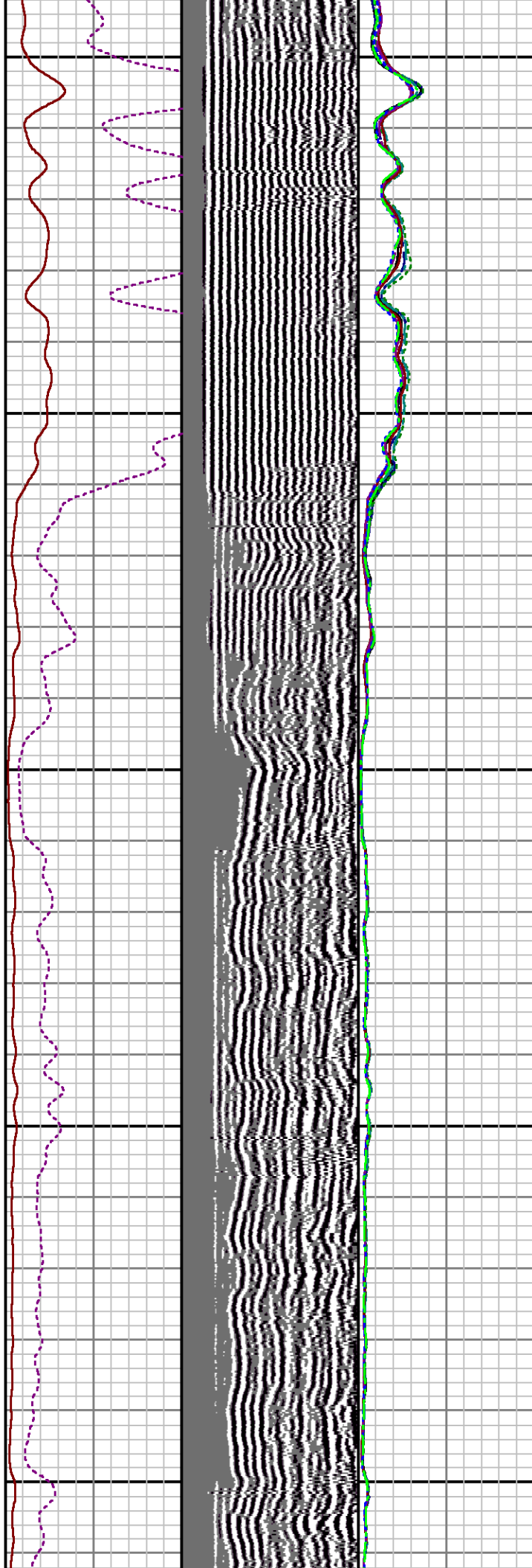


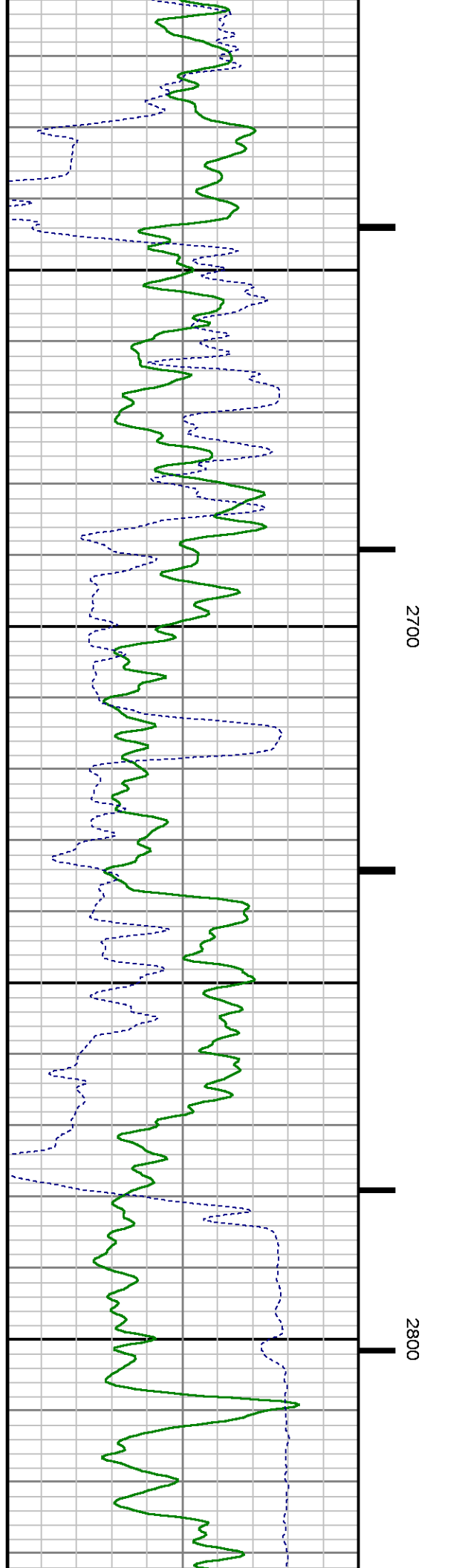
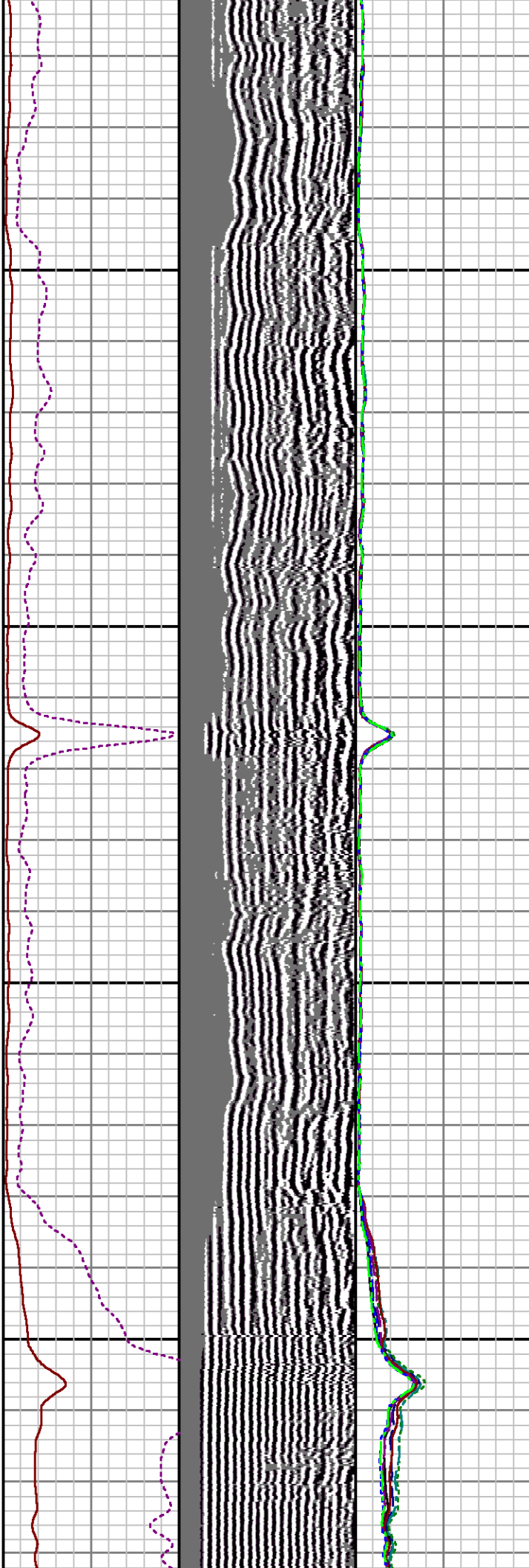
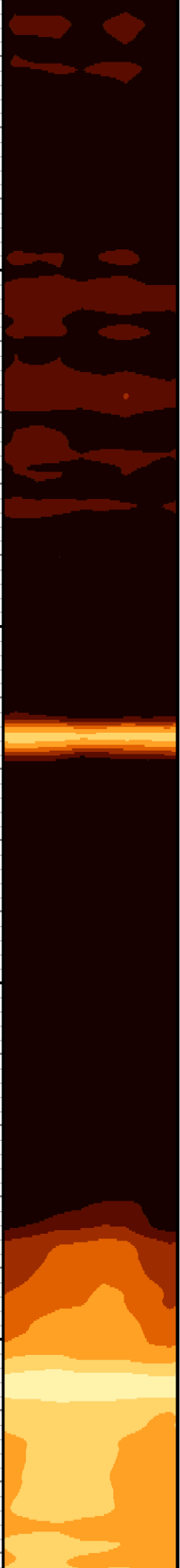


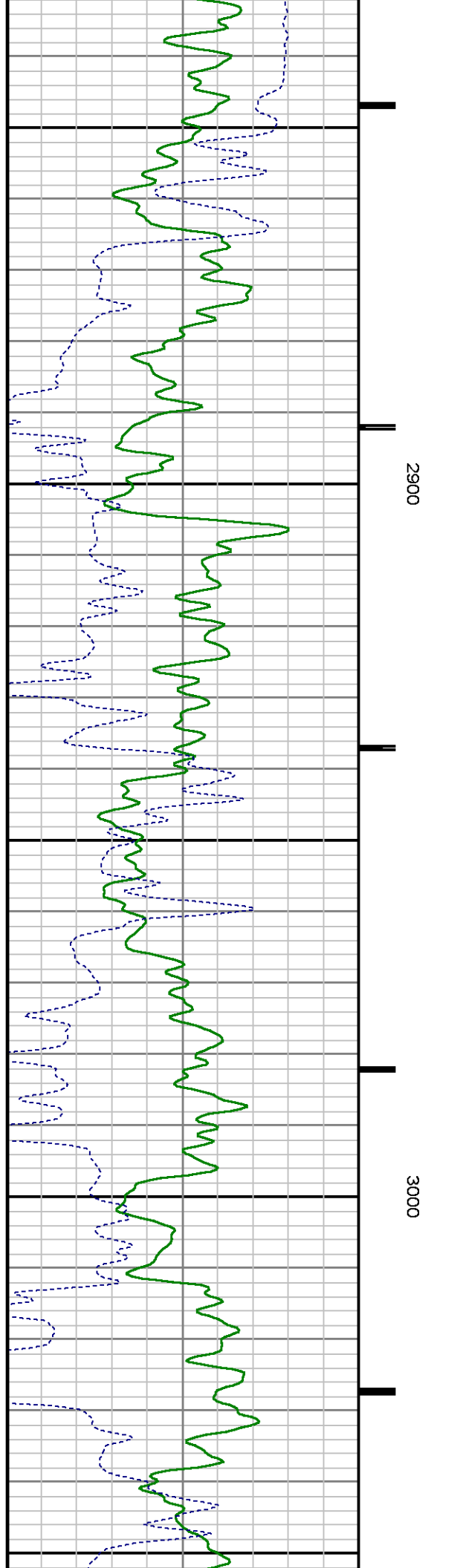
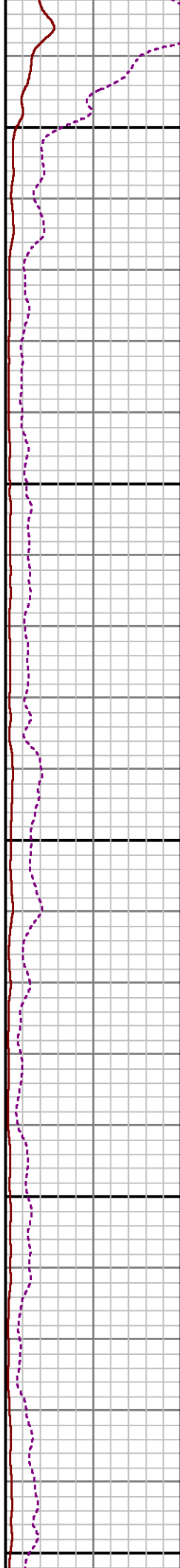
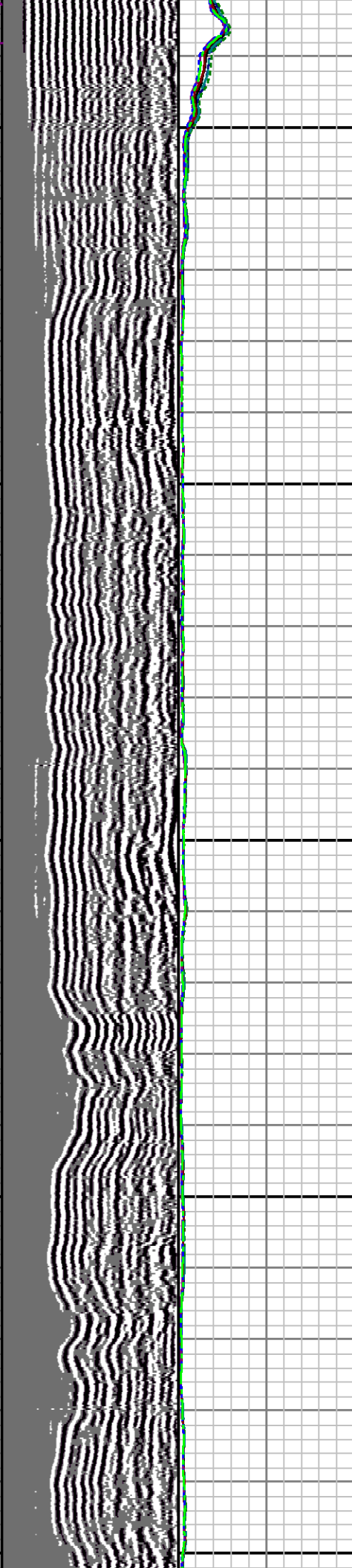


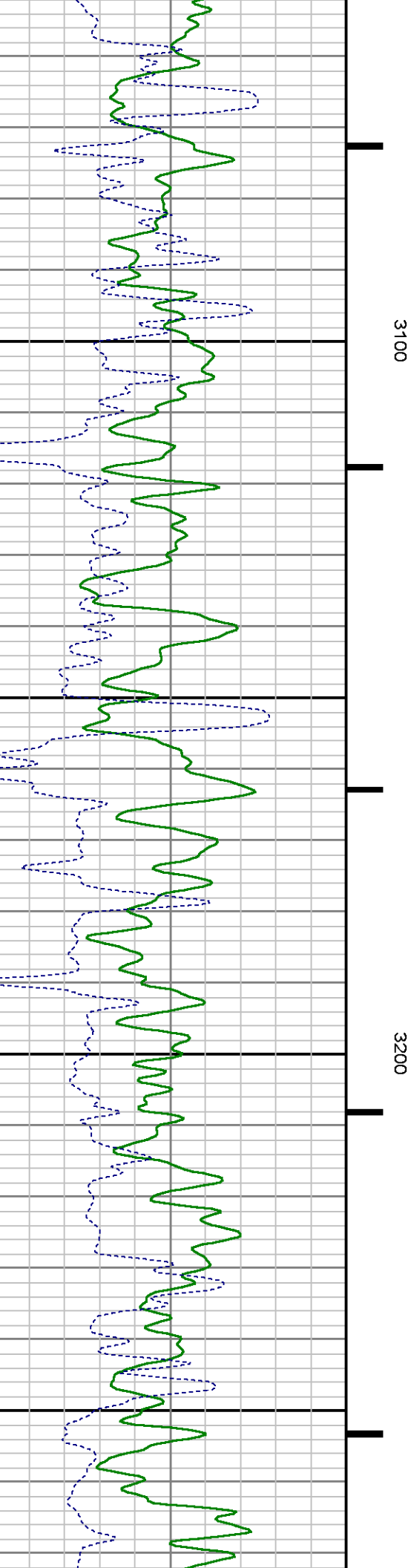
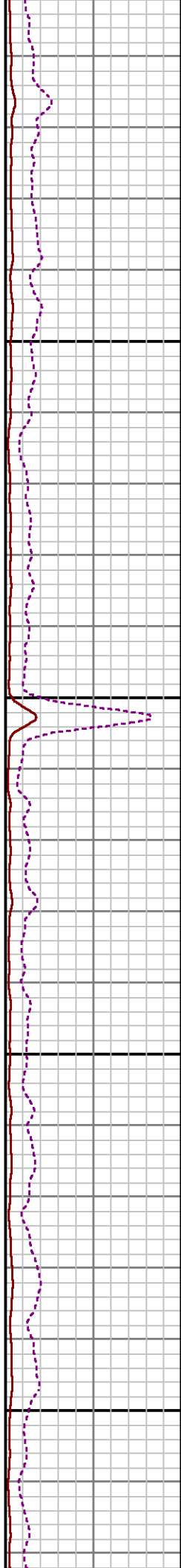
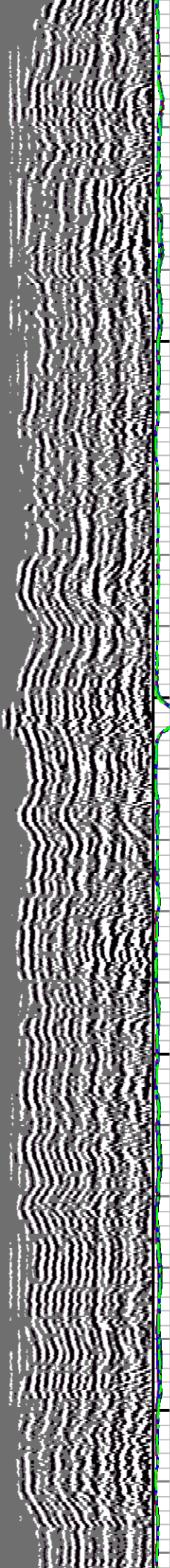


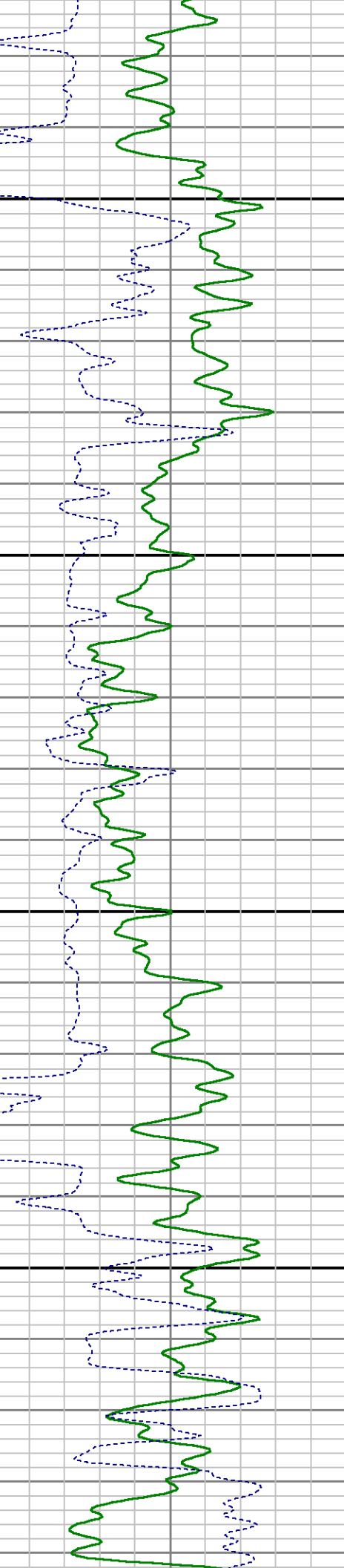
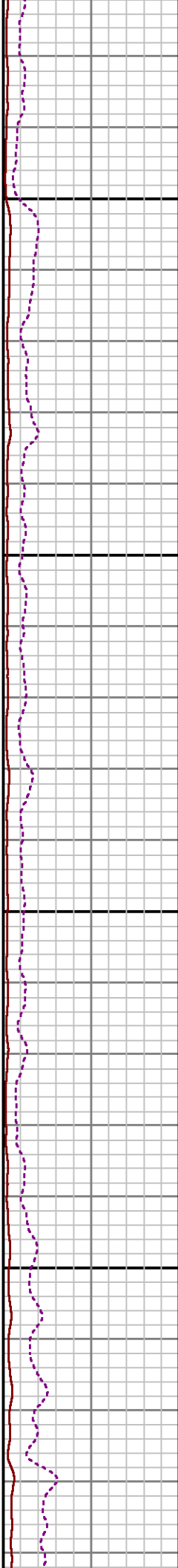
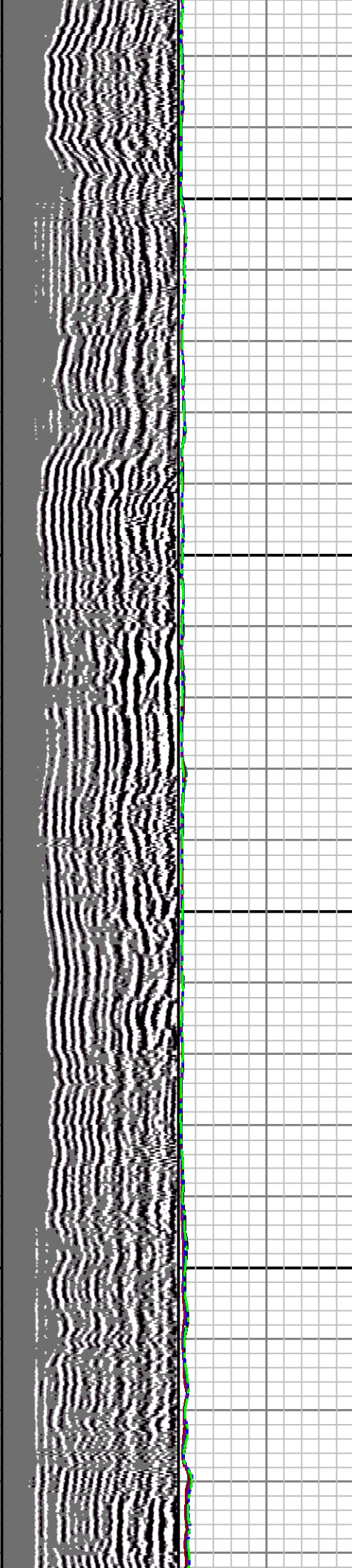


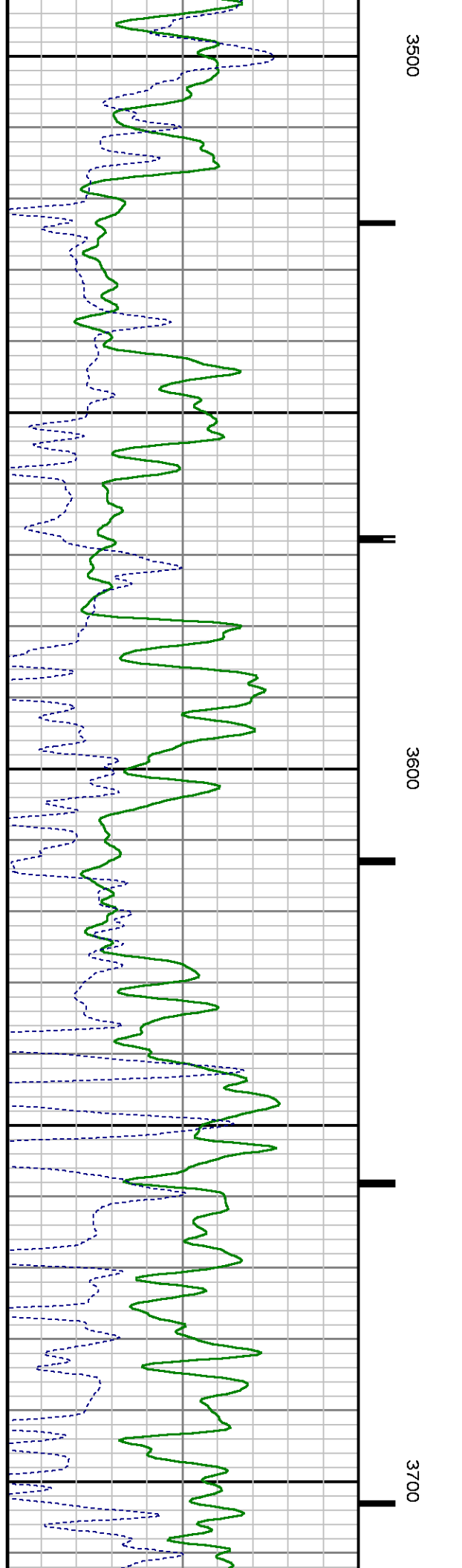
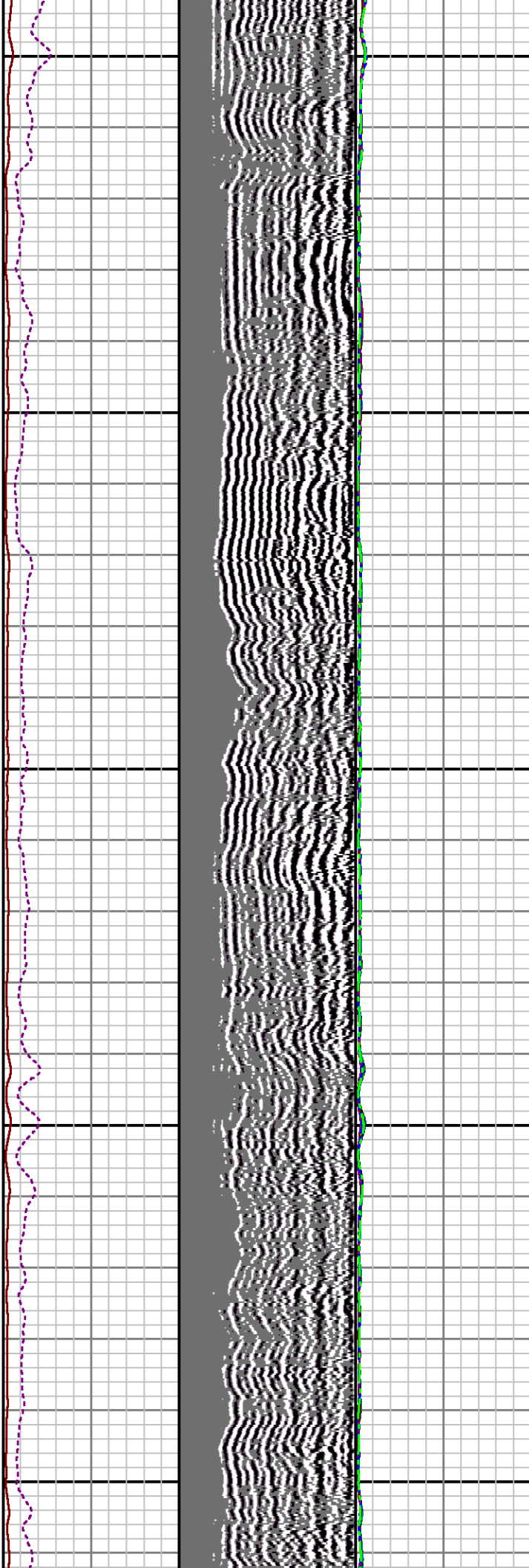


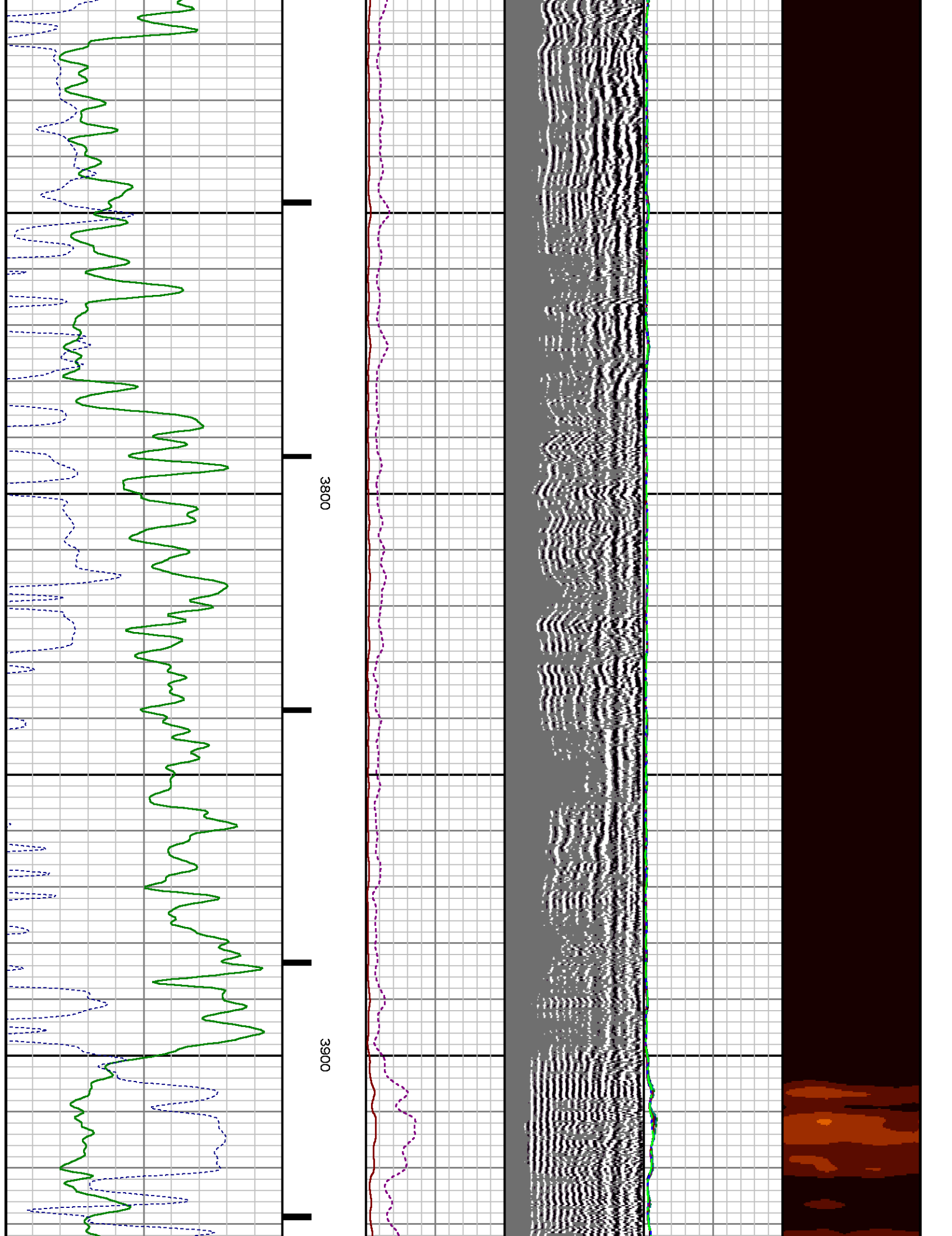


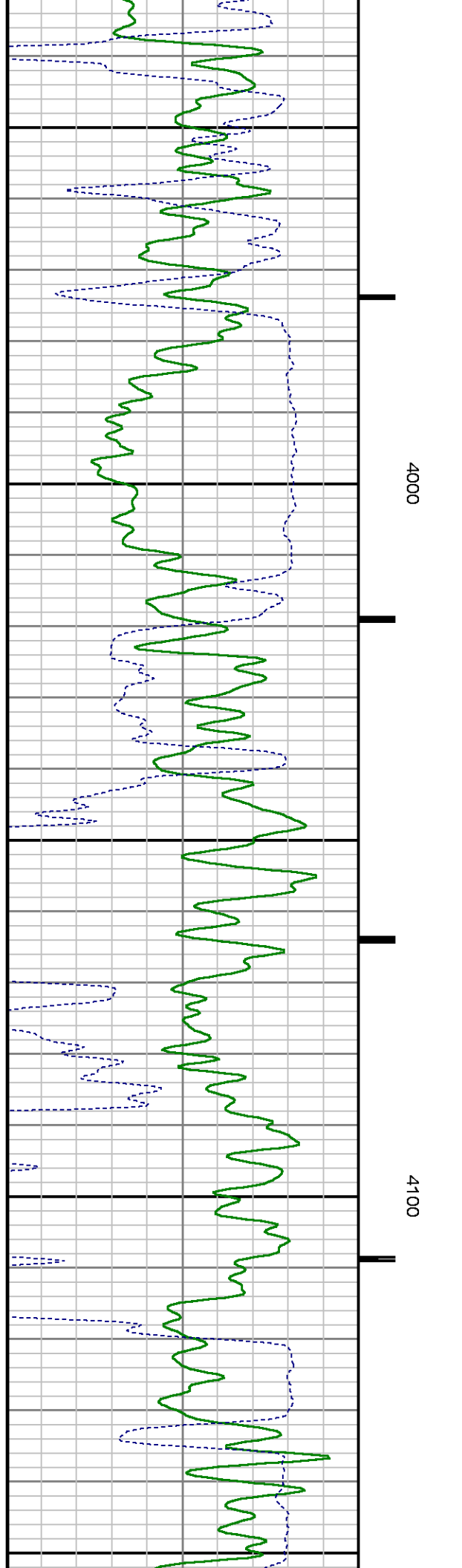
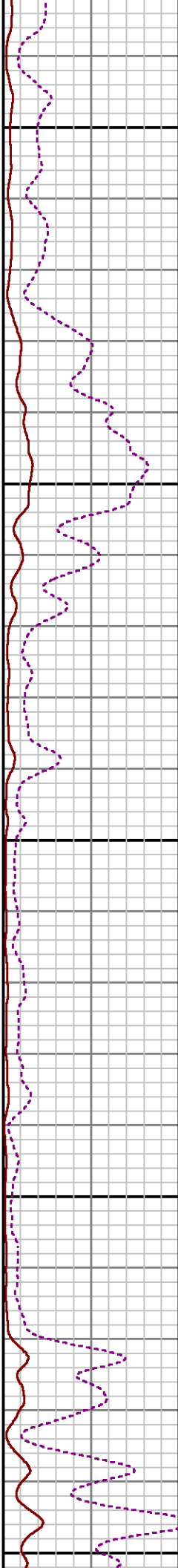
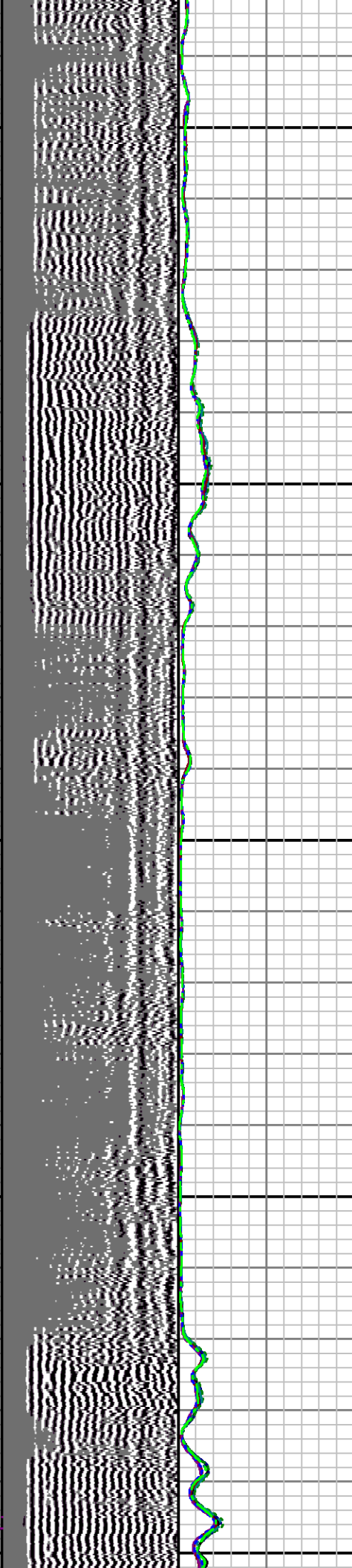


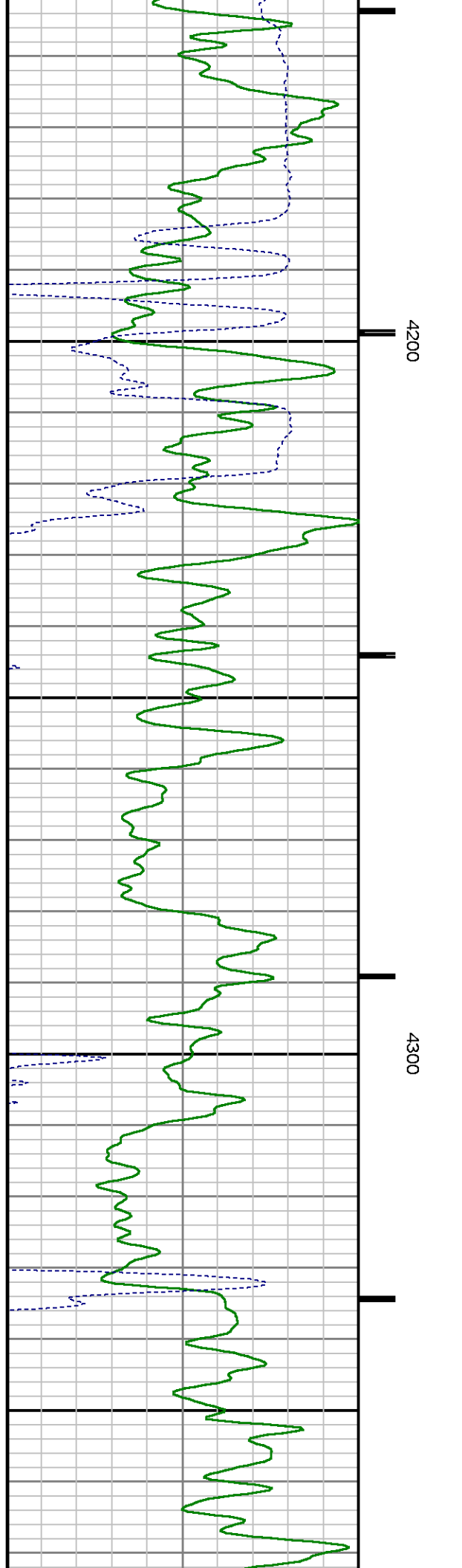
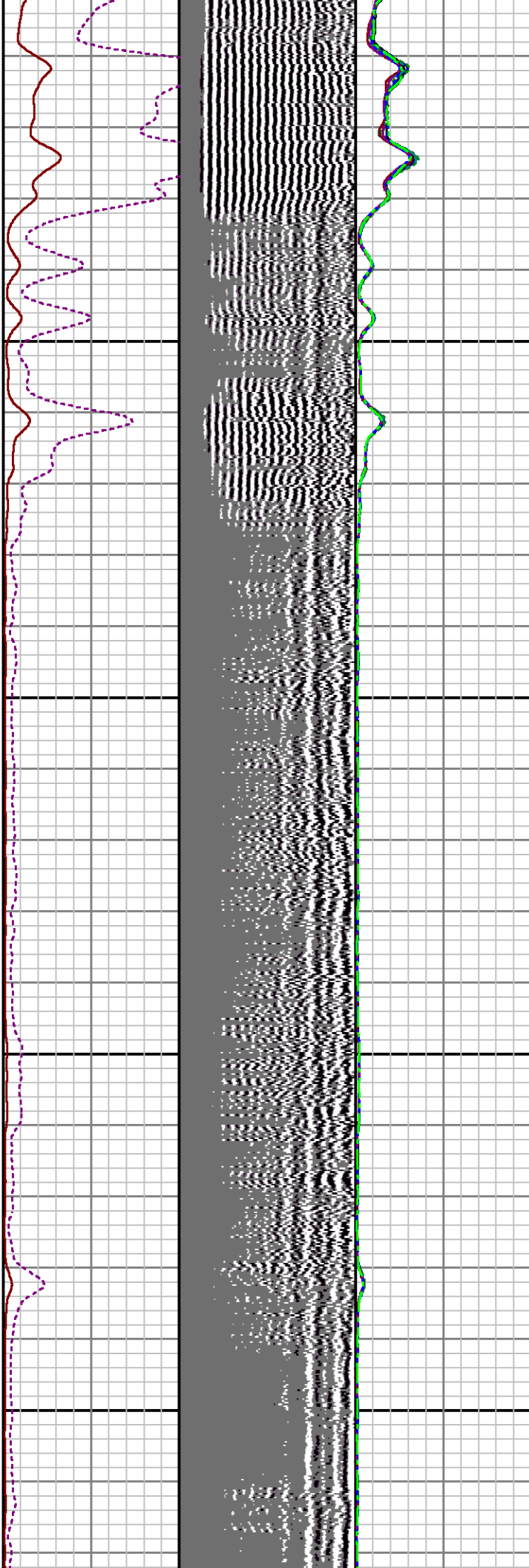


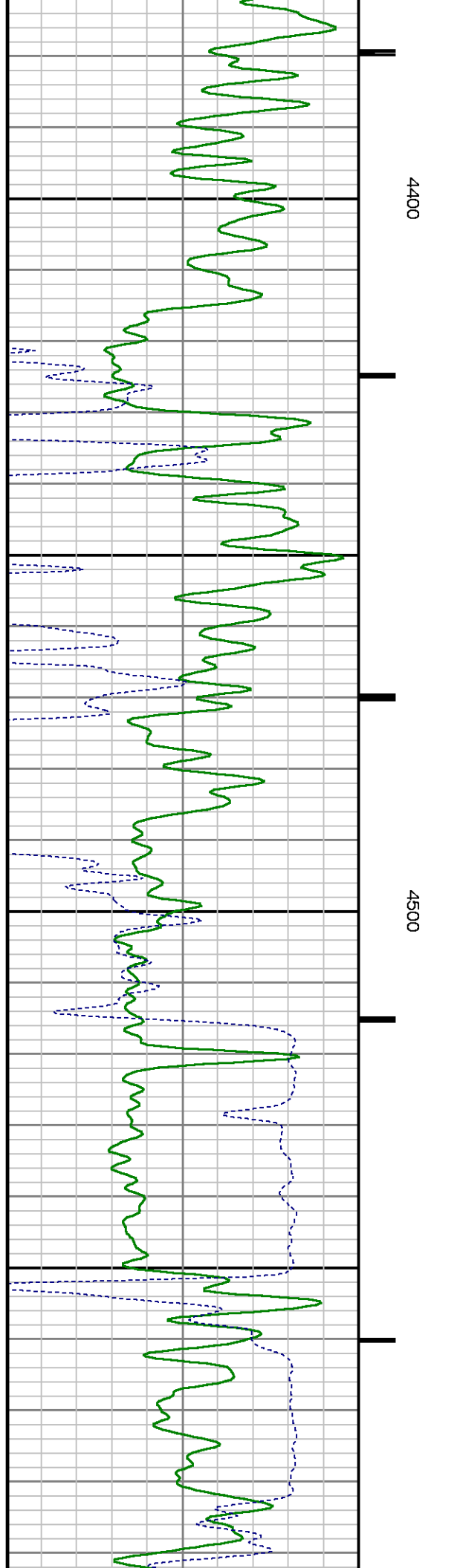
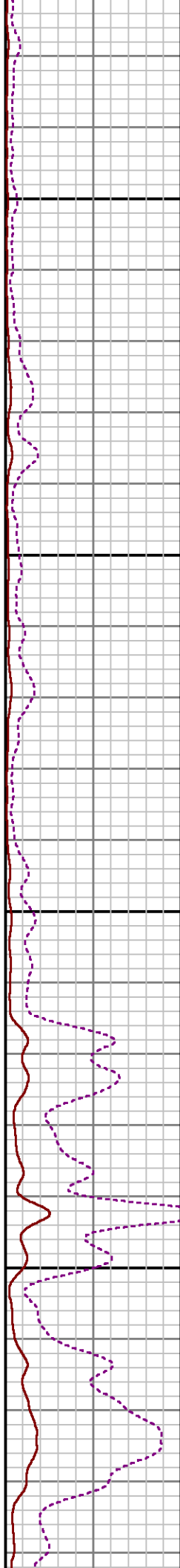
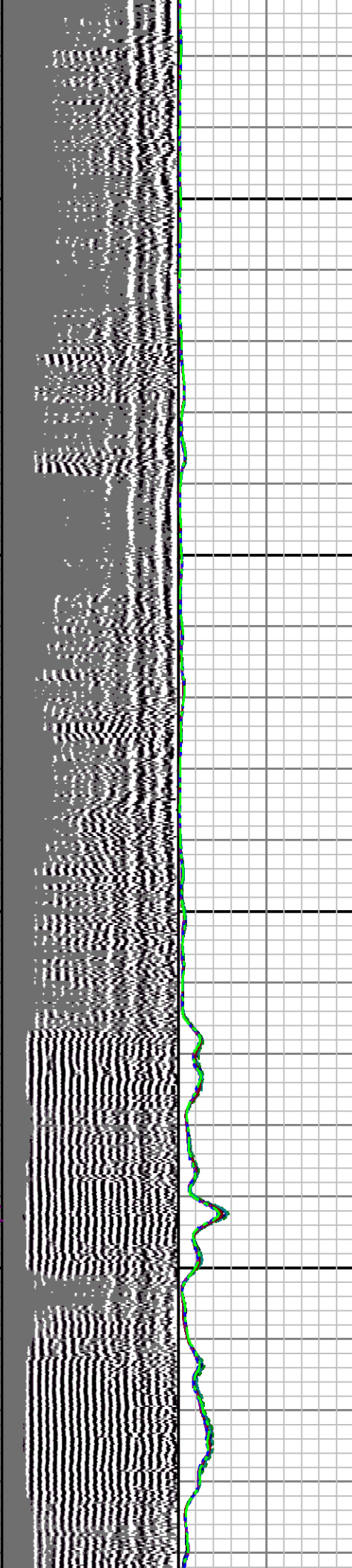


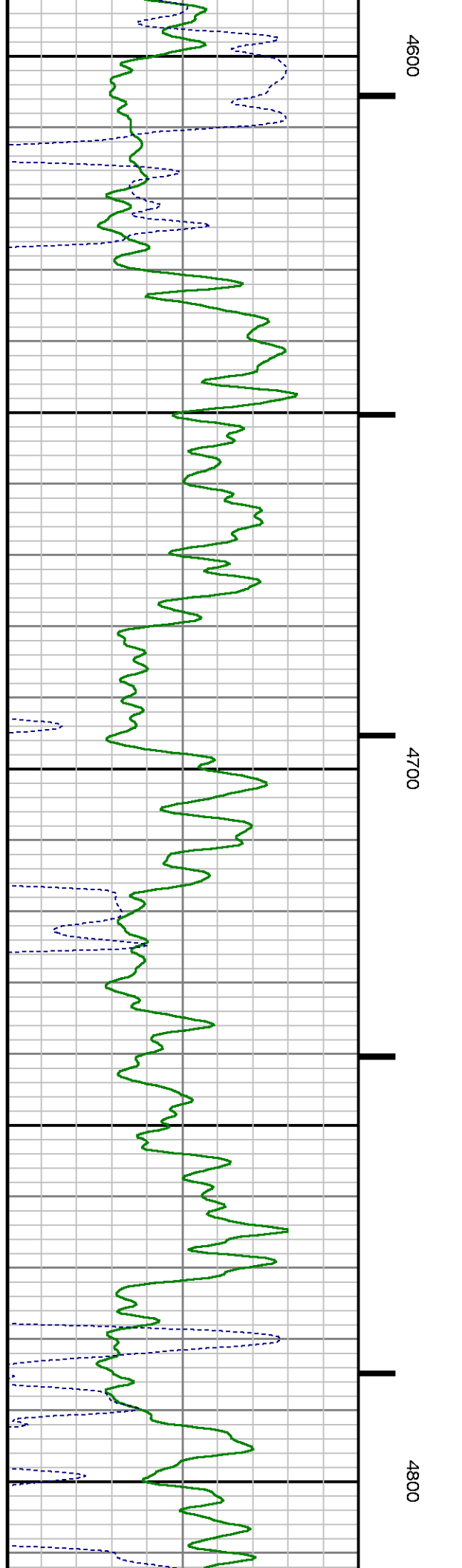
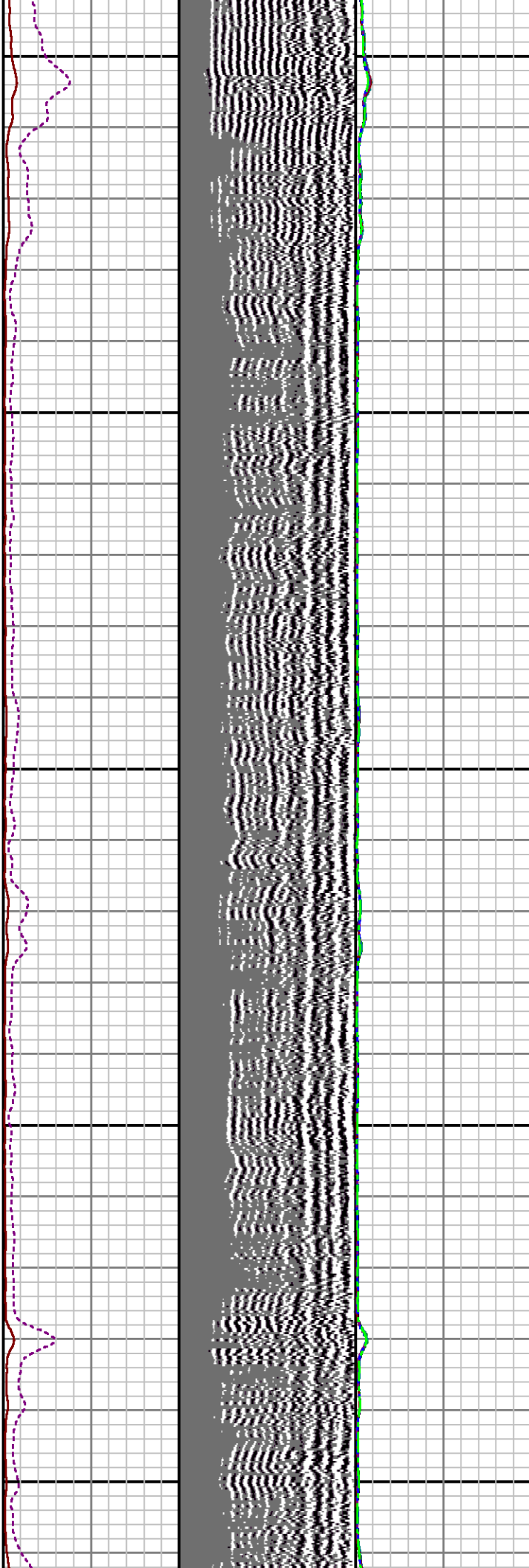


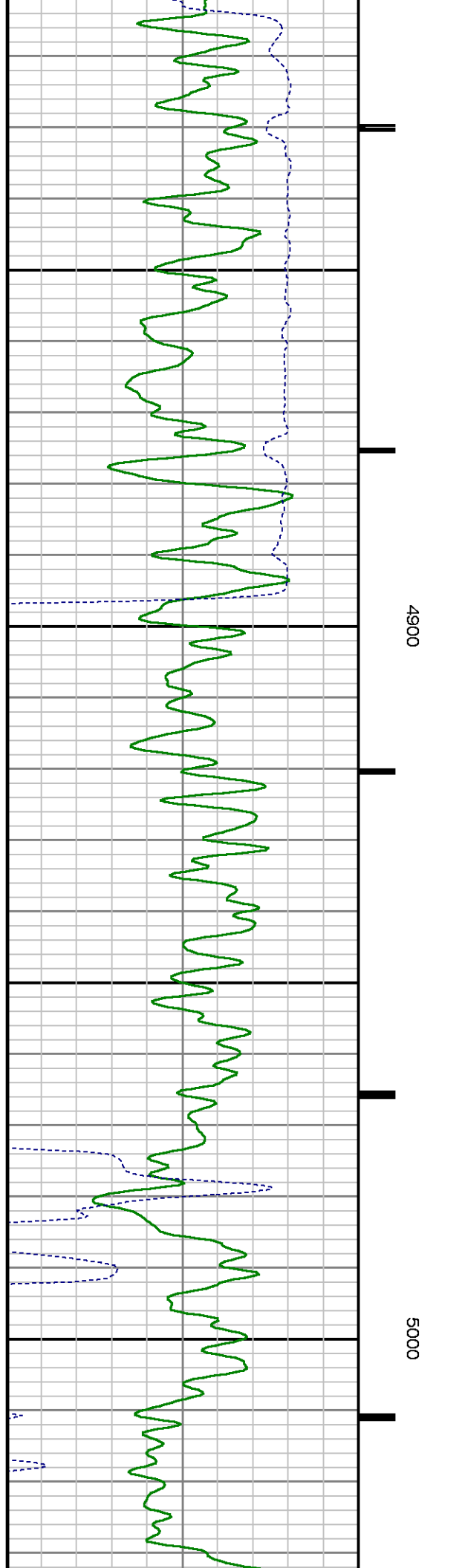
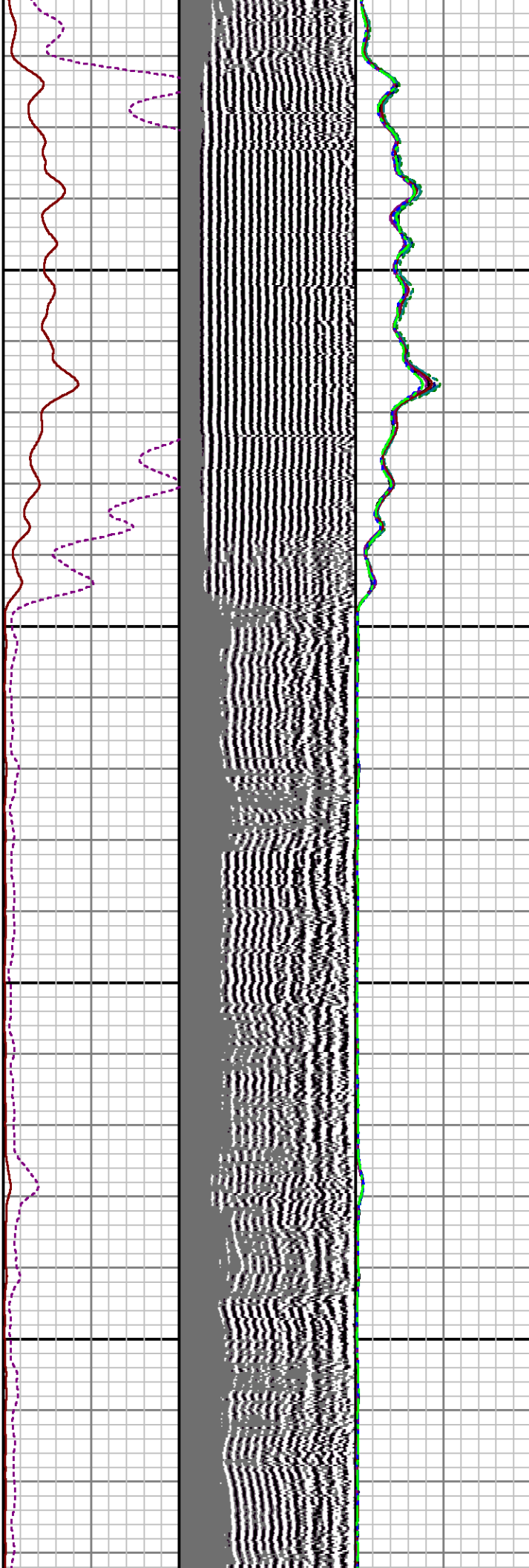
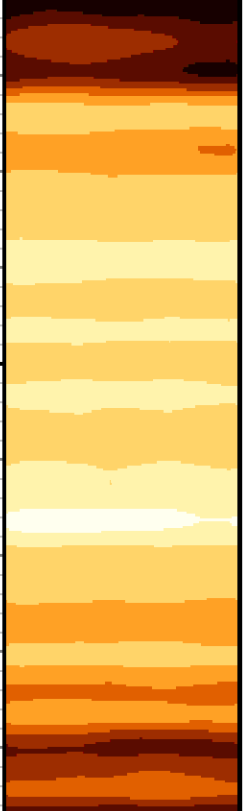


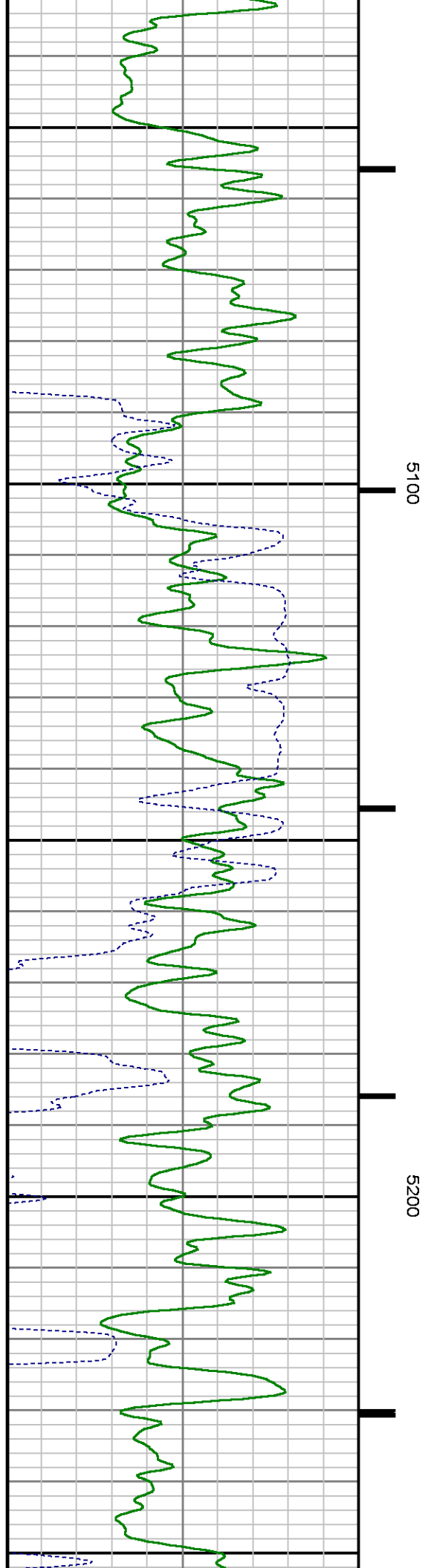
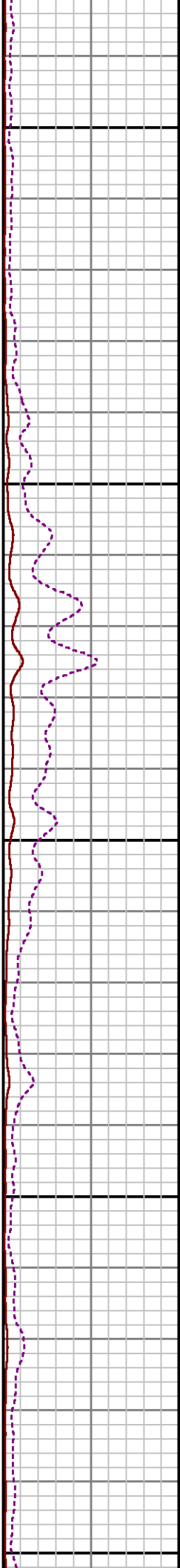
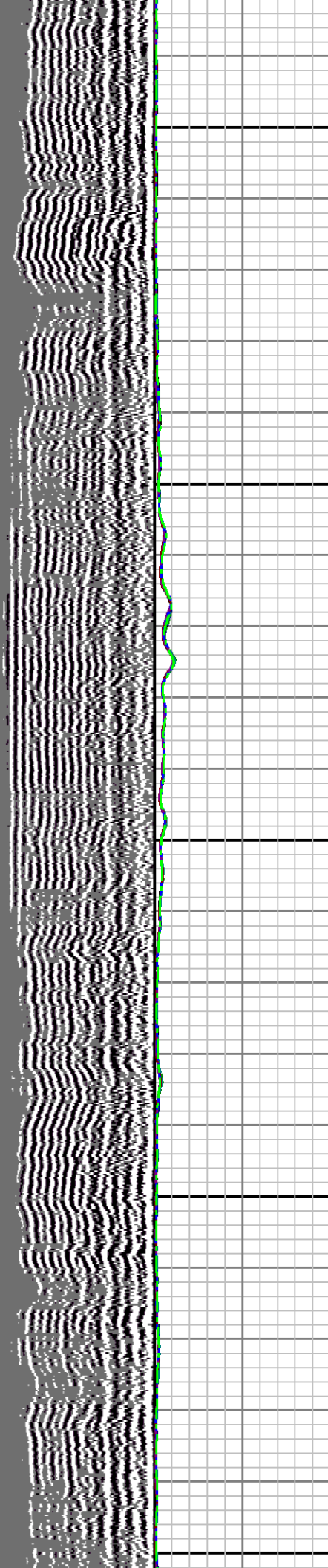
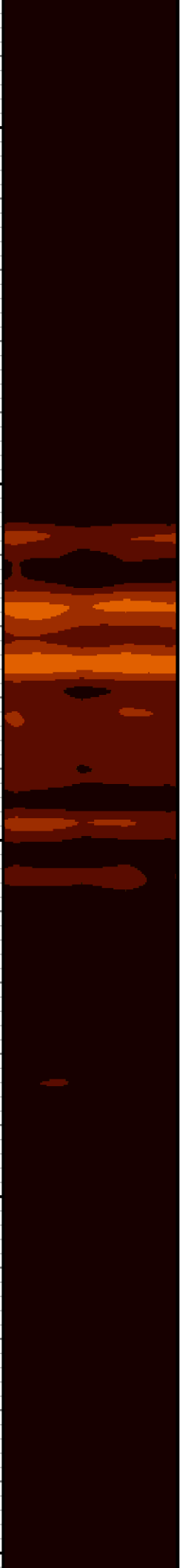


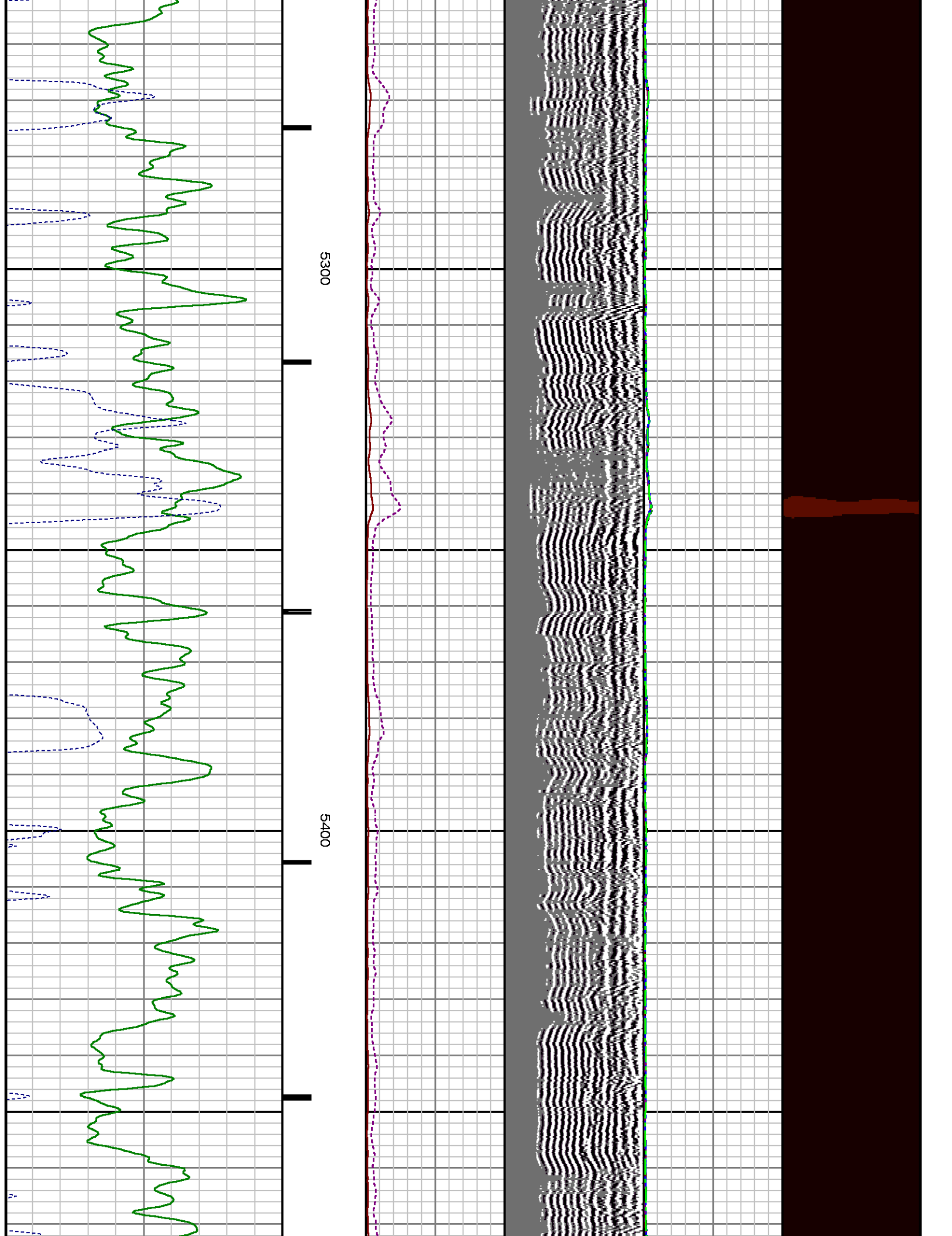


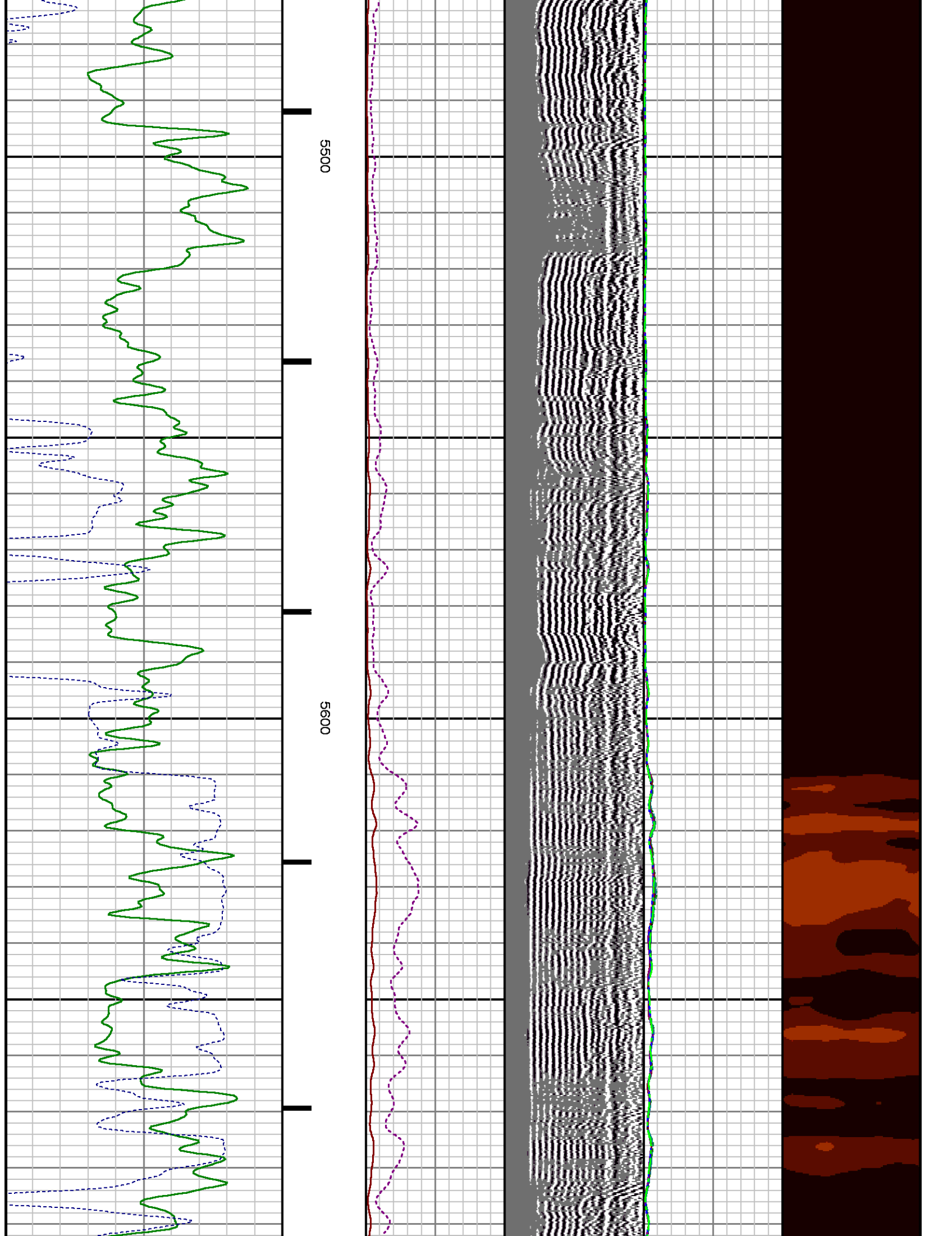


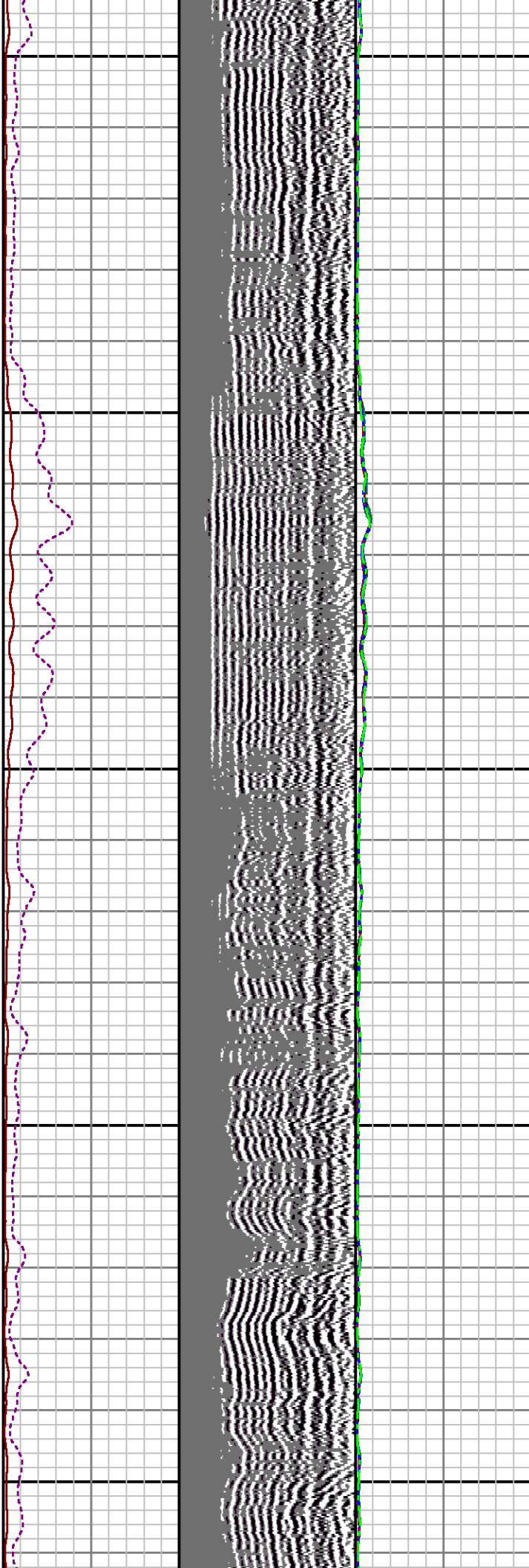








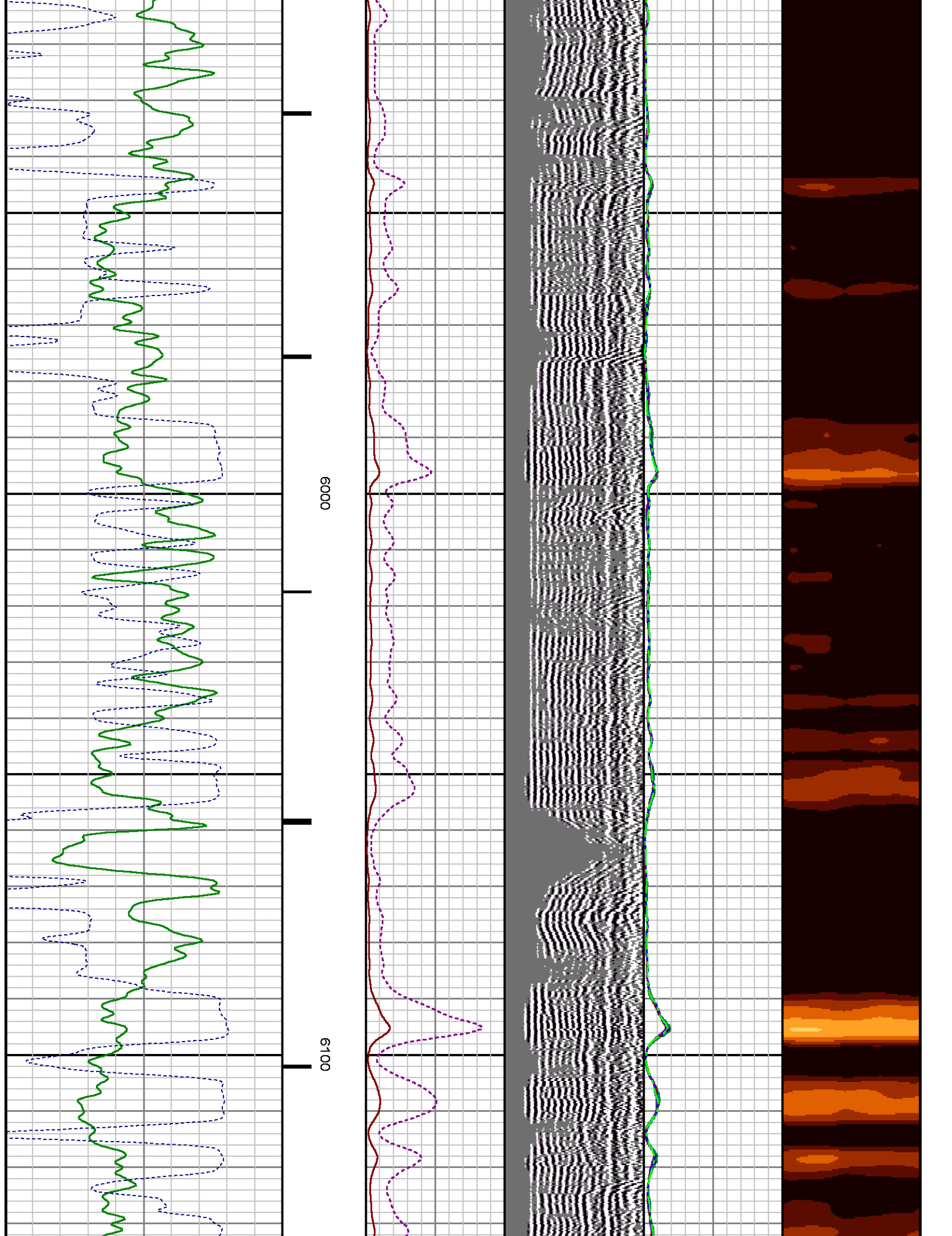


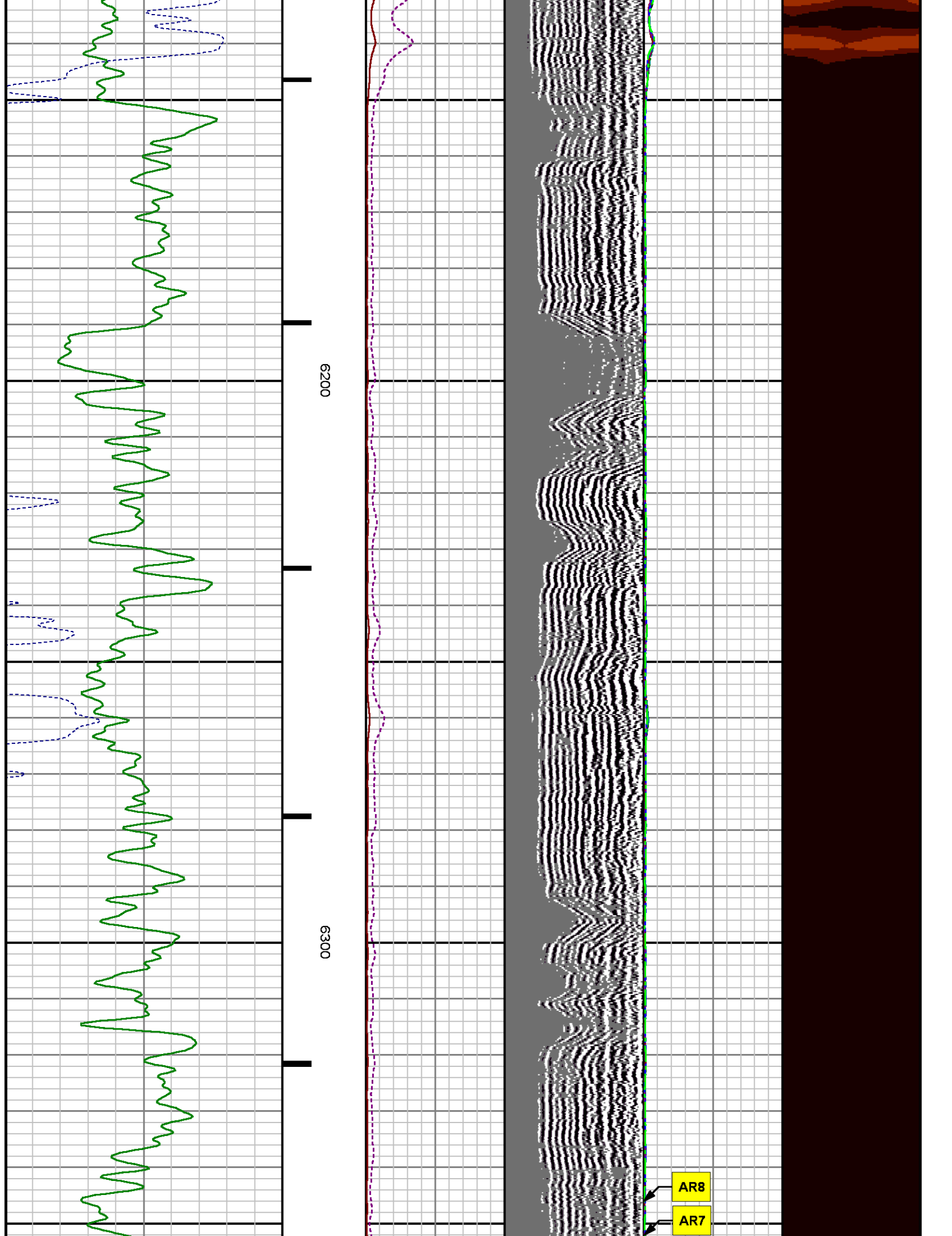


5700

5800

5900





RAL	casing od	4.500	inches	6087.890	6425.140
RAL	casing wt	11.600	lbm/ft	6087.890	6425.140
RAL	FB Start Far	291.900	usec	6087.890	6425.140
RAL	FB Start Near	175.391	usec	6087.890	6425.140
RAL	FB Start Radial	175.391	usec	6087.890	6425.140
RAL	FB Thresh Far	10.000	mv	6087.890	6425.140
RAL	FB Thresh Near	4.000	mv	6087.890	6425.140
RAL	FB Thresh Radial	4.000	mv	6087.890	6425.140
RAL	Fluid Travel Time	200.000	usec/ft	6087.890	6424.890

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

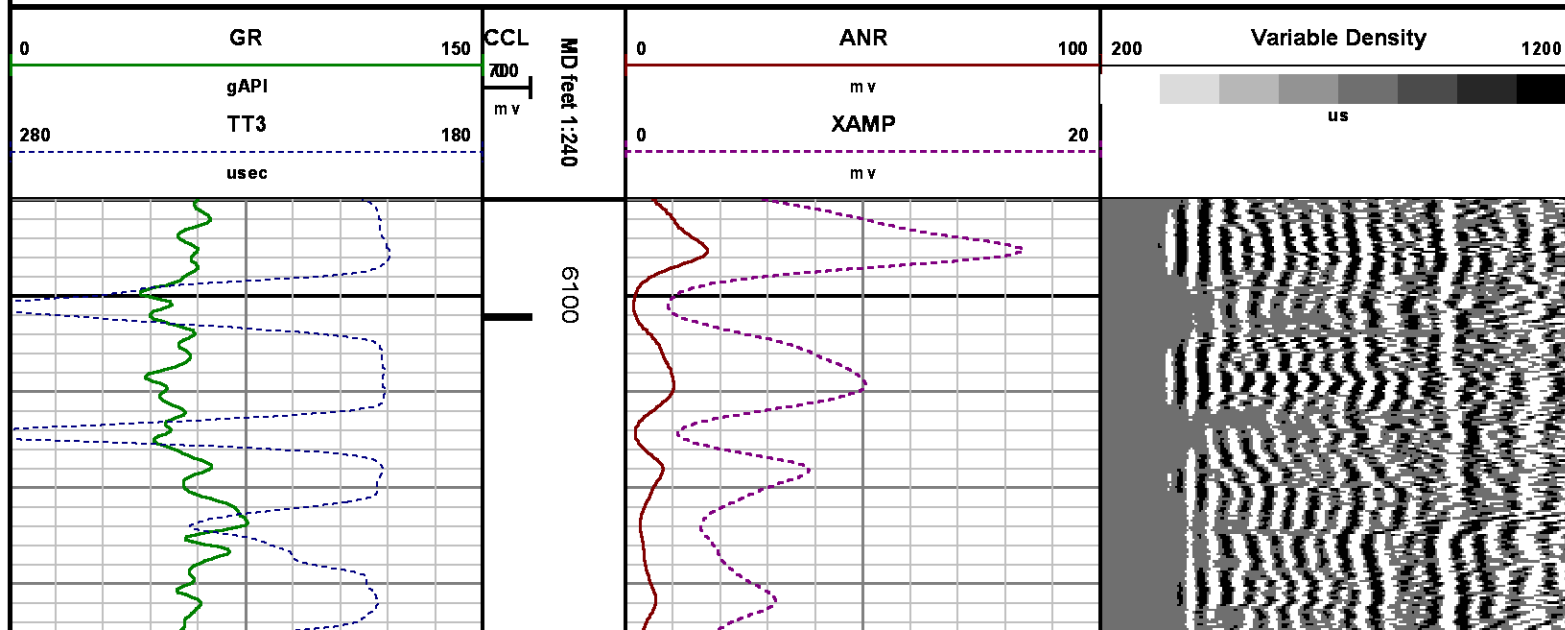
Well : PA 314-6

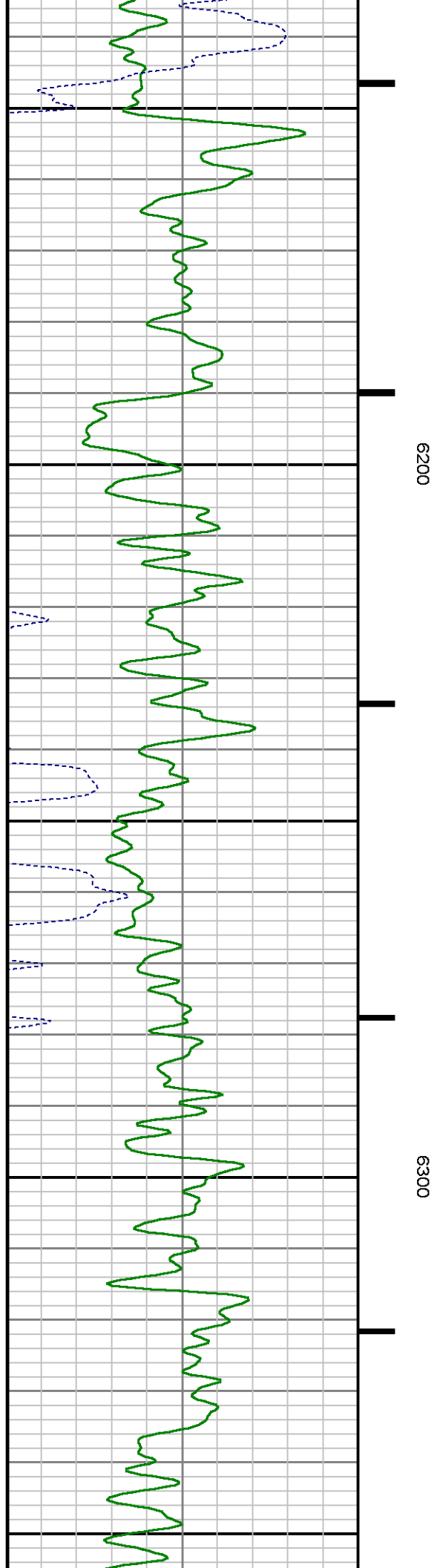
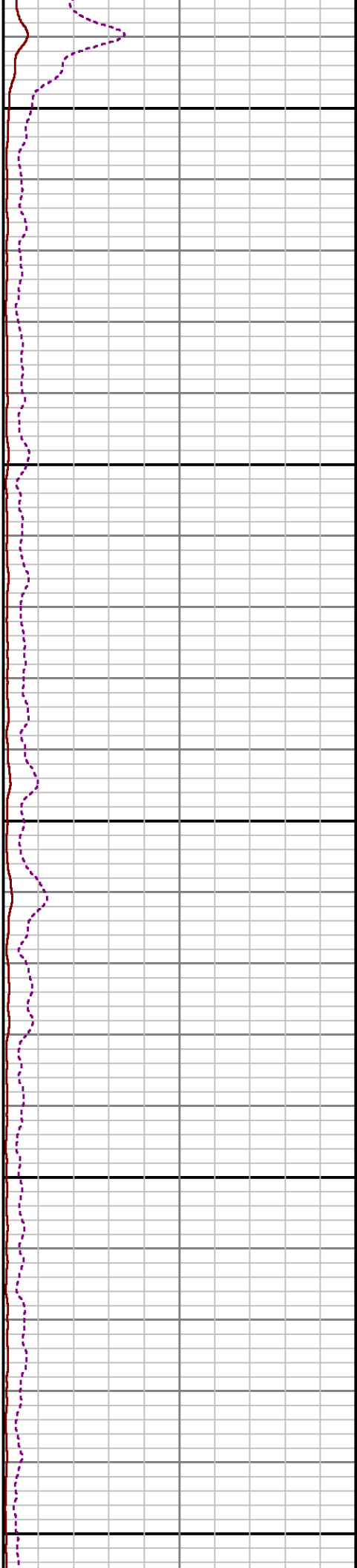
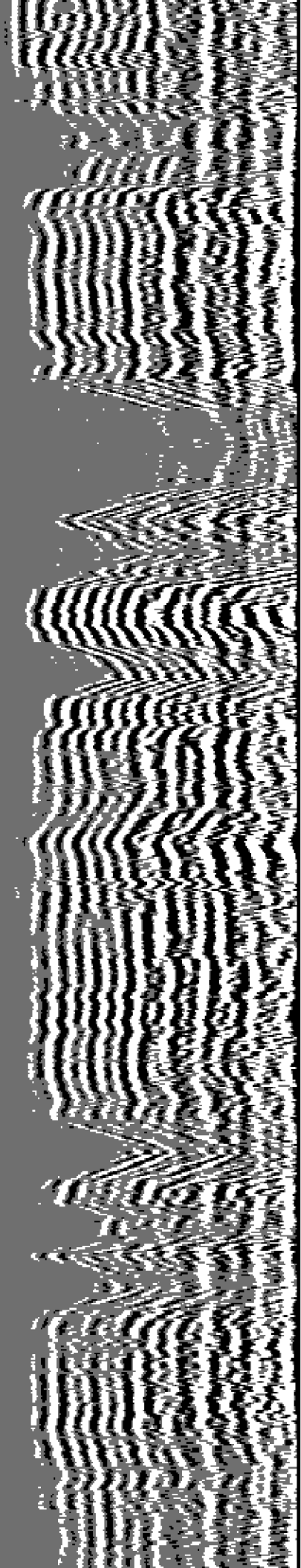
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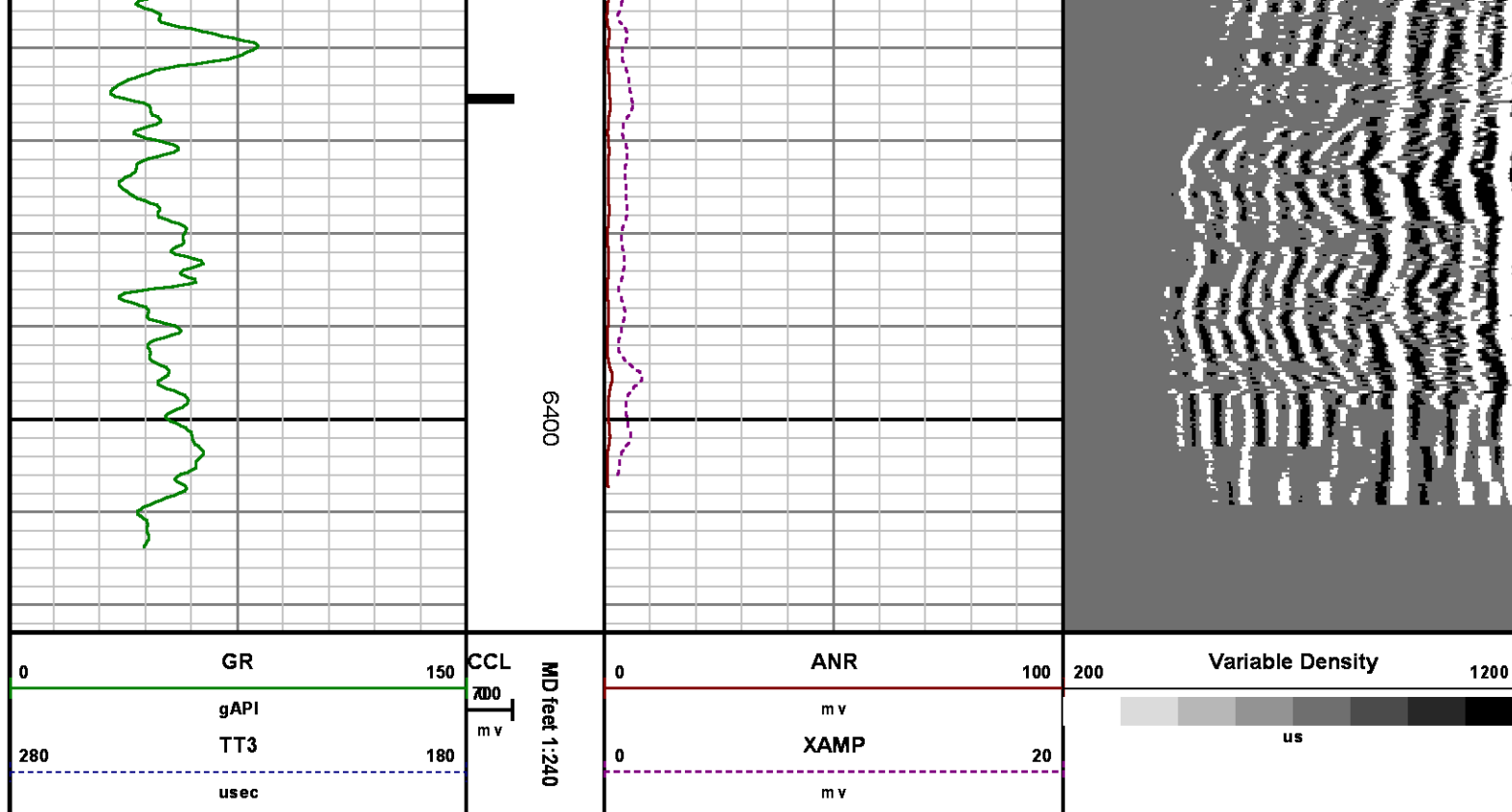
Mode : PlotMgr 5.4.504

Interval : 6090.00 - 6423.00 feet UP

Created : 6/4/2014 9:43:25 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP49604_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Jun 04 08:18:11 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 04

Tool Delay [usec] -52.00 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	0.400	100.00	0.32
3 Ft. Receiver	218	216	30	166	16	1.004	100.00	0.32
5 Ft. Receiver	327	325	30	249	25	0.099	150.00	0.36
Radial #1	219	216	30	166	18	0.896	100.00	0.32
Radial #2	218	216	30	166	18	0.712	100.00	0.31
Radial #3	217	216	30	166	18	1.336	100.00	0.32
Radial #4	217	216	30	166	18	0.945	100.00	0.32
Radial #5	218	216	30	166	18	1.057	100.00	0.32
Radial #6	218	216	30	166	18	0.905	100.00	0.32

Radial #7	219	216	30	166	18	0.794	100.00	0.32
Radial #8	220	216	30	166	18	0.769	100.00	0.32

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49604 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Jun 04 09:18:59 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 04

Tool Delay [usec] -52.00 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	0.081	0.000	1.01	100.000
3 Ft. Receiver	195	25	2.524			
5 Ft. Receiver	305	25	3.611			
Radial #1	195	25	1.615			
Radial #2	195	25	1.862			
Radial #3	195	25	2.308			
Radial #4	195	25	2.268			
Radial #5	195	25	2.489			
Radial #6	195	25	2.439			
Radial #7	195	25	1.910			
Radial #8	195	25	1.834			

GAMMA RAY

Calibration File: C:\case\calver\GR\45608.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu May 08 09:48:12 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 08

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	97.82	367.47	0.686	67.11	252.11	185.00

Verification File: C:\case\calver\GR\45608.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu May 08 09:49:43 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 08

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	98.76	372.44	0.686	67.76	255.53	187.77

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

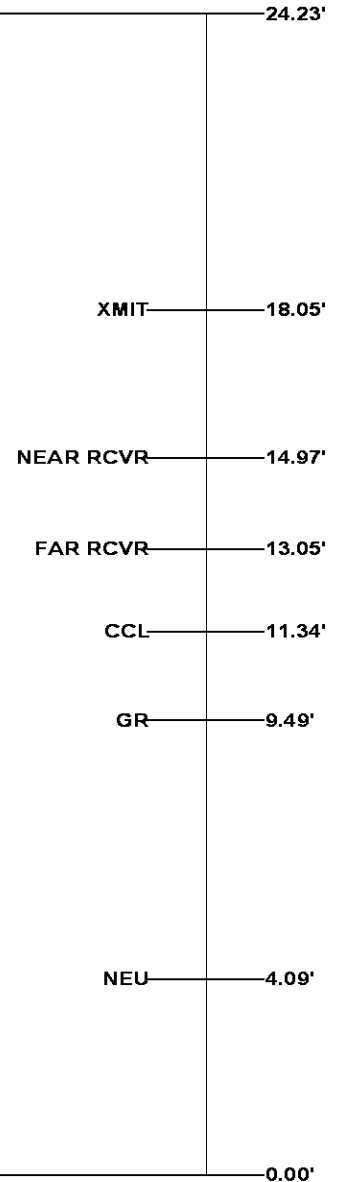
Probe GR/CCL/NEU

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

CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

Total Length: 24.23'
Total Weight: Not Available
Max Diameter: 0' 3.12"



Baker Atlas

Company	WPX ENERGY
Well	PA 314-6
Field	PARACHUTE
County	GARFIELD
State	CO

File No:

CH086758

API No:

05045222330000

Location

Elevations



Location

SHL: 750' FSL & 743' FWL

BHL: 879' FSL & 784' FWL

SEC 6 TWP 7S RGE 95W

Elevations

KB 5179 ft

DF

GL 5153 ft

6 7S 95W

PA 14-6 PAD

NABORS 574