



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH083165	Company Well	WPX ENERGY PA 512-2
API No: 05045221410000	Field County	PARACHUTE GARFIELD
	State	CO
2 7S 95W GV 86-2 PAD AZTEC 1000	Location SHL: 2067' FSL & 1538' FWL BHL: 2425' FNL & 1063' FWL SEC 2 TWP 7S RGE 95W	Other Services RPM
Permanent Datum Log Measured From Drill Measured From	GL Elevation 5821 ft KB 25 ft Above P. D. KB	Elevations KB 5845 ft DF GL 5821 ft

Date	09/MAR/14
Run	ONE
Service Order	US625356
Depth Driller	7582 ft
Depth Logger	7549 ft
Bottom Logged Interval	7539 ft
Top Logged Interval	25 ft
Time Started	8:00
Time Finished	12:00
Operator Rig Time	4 HOURS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	85 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	65 fpm
Maximum Recorded Temperature	221 degF
Reference Log	NA
Reference Log Date	NA
Equipment No.	4271
Location	GRAND JCT.
Recorded By	NEWELL
Witnessed By	DUSTIN WELSH

- 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	863 ft
8.75 in	863 ft	7627 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	863 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	7627 ft

Remarks
All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.
The amount of linear shift is 9 feet.
Logged with zero PSI at wellhead.
BHT = 221 °F

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	33.156	7550.000
RAL	Amp Gate Start Near	195.000	usec	33.156	7550.000
RAL	Amp Gate Start Radial	195.000	usec	33.156	7550.000
RAL	Amp Gate Width Far	25.000	usec	33.156	7550.000
RAL	Amp Gate Width Near	25.000	usec	33.156	7550.000
RAL	Amp Gate Width Radial	25.000	usec	33.156	7550.000
RAL	casing od	4.500	inches	33.156	7550.000
RAL	casing wt	11.600	lbm/ft	33.156	7550.000
RAL	FB Start Far	291.900	usec	33.156	7550.000
RAL	FB Start Near	175.391	usec	33.156	7550.000
RAL	FB Start Radial	175.391	usec	33.156	7550.000
RAL	FB Thresh Far	10.000	mv	33.156	7550.000
RAL	FB Thresh Near	4.000	mv	33.156	7550.000
RAL	FB Thresh Radial	4.000	mv	33.156	7550.000
RAL	Fluid Travel Time	200.000	usec/ft	33.156	7550.000

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	TTD1	TTD2	TTD3

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

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

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

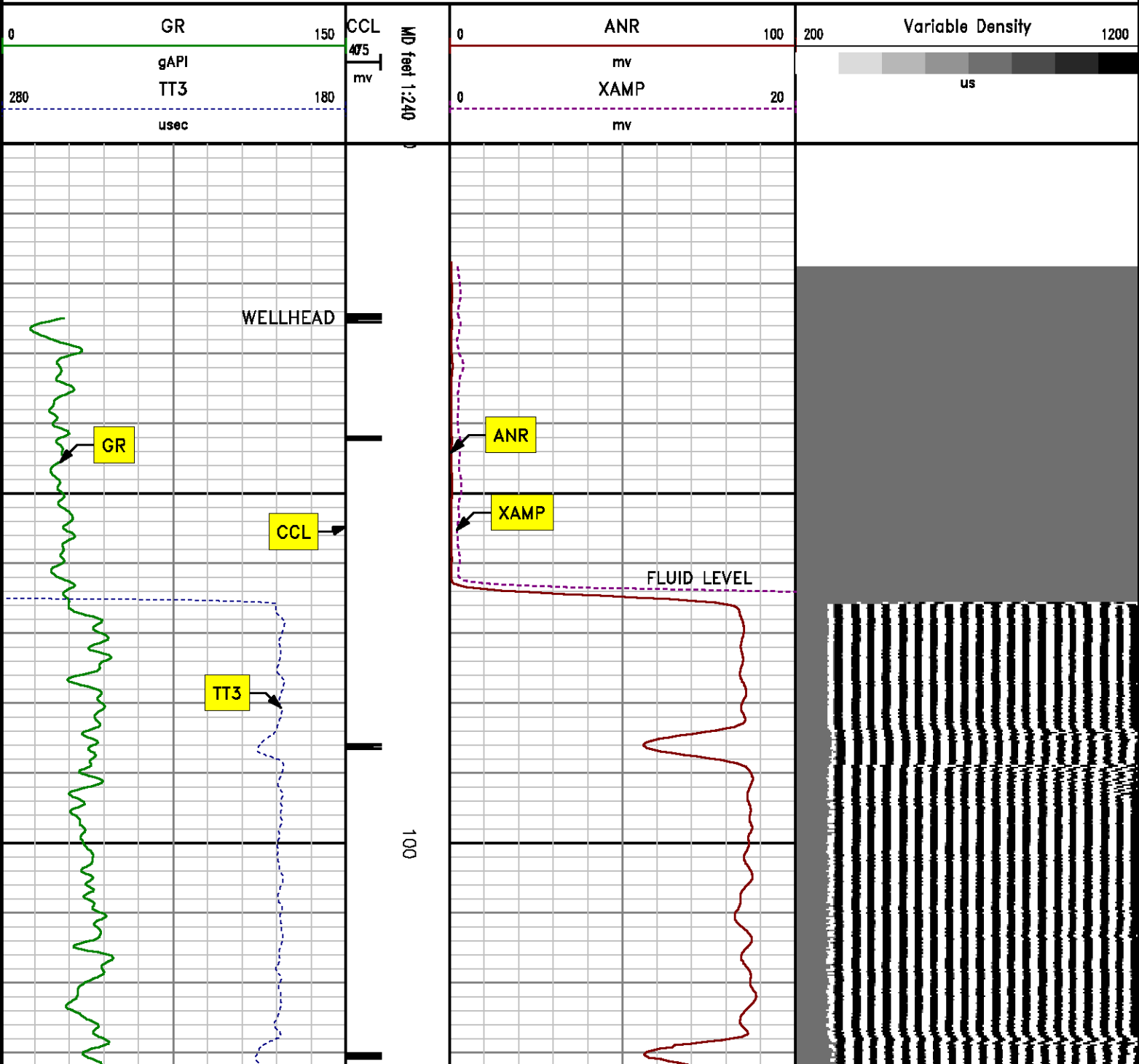
Well : WPX ENERGY PA 512-2

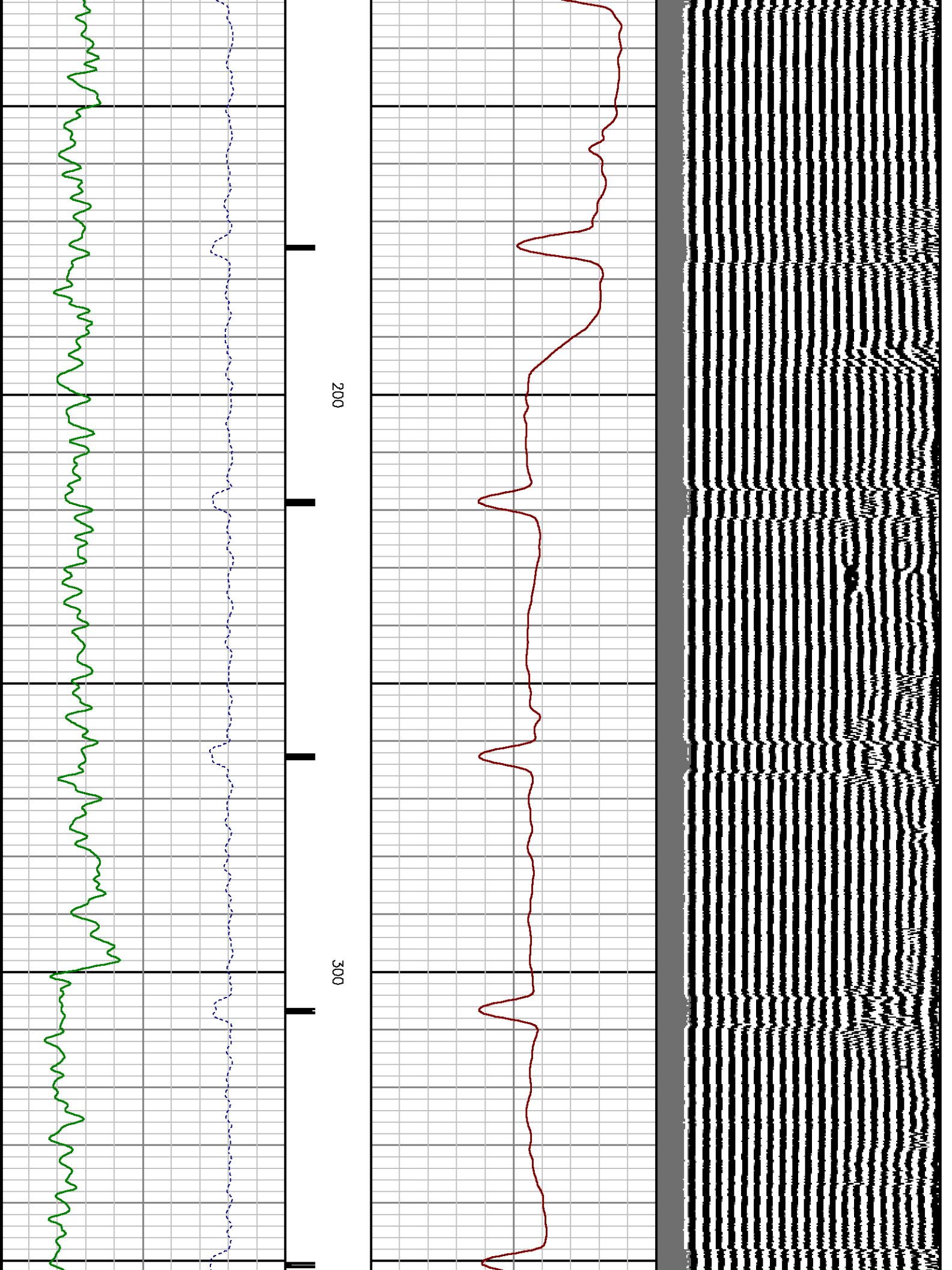
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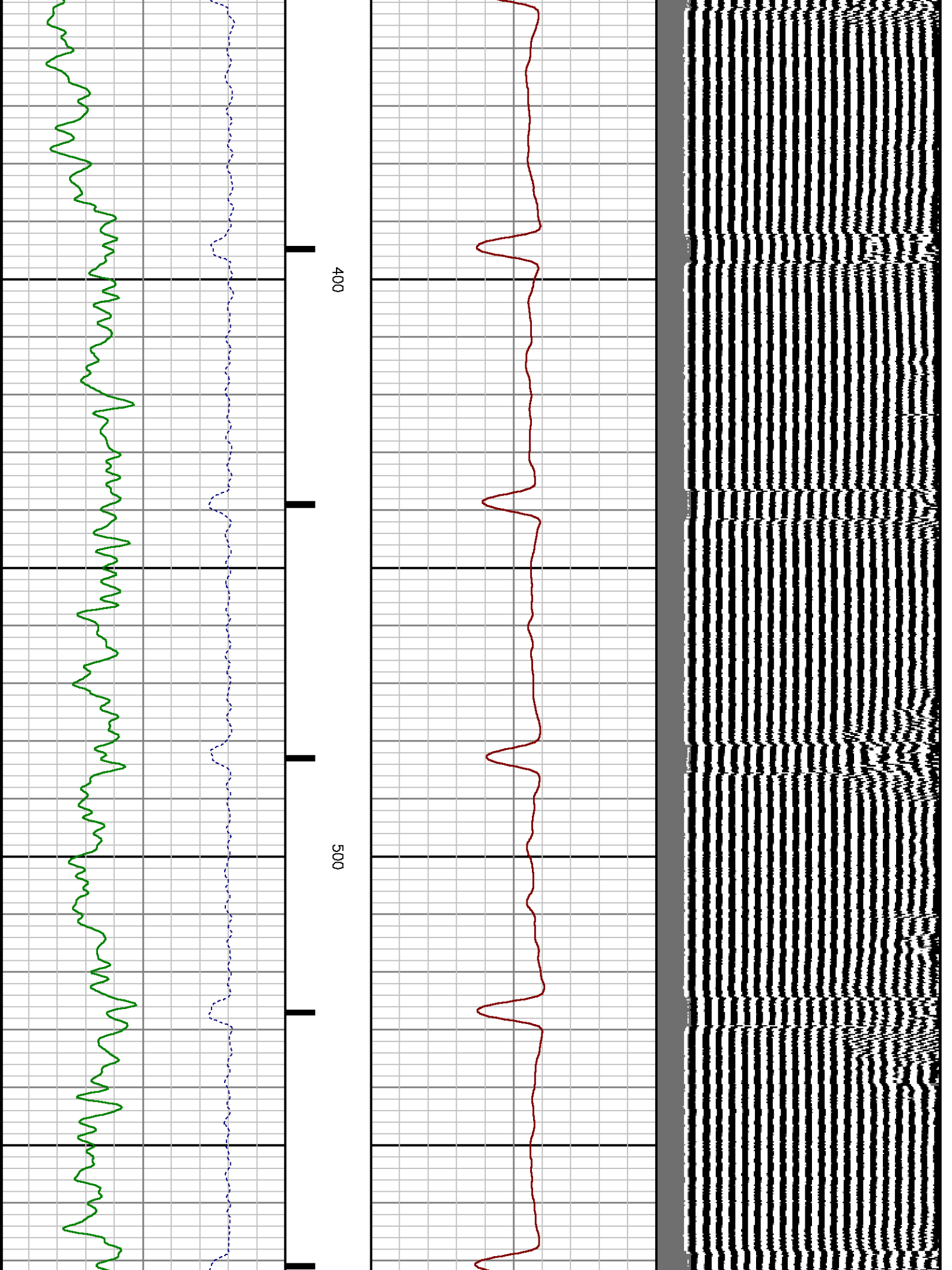
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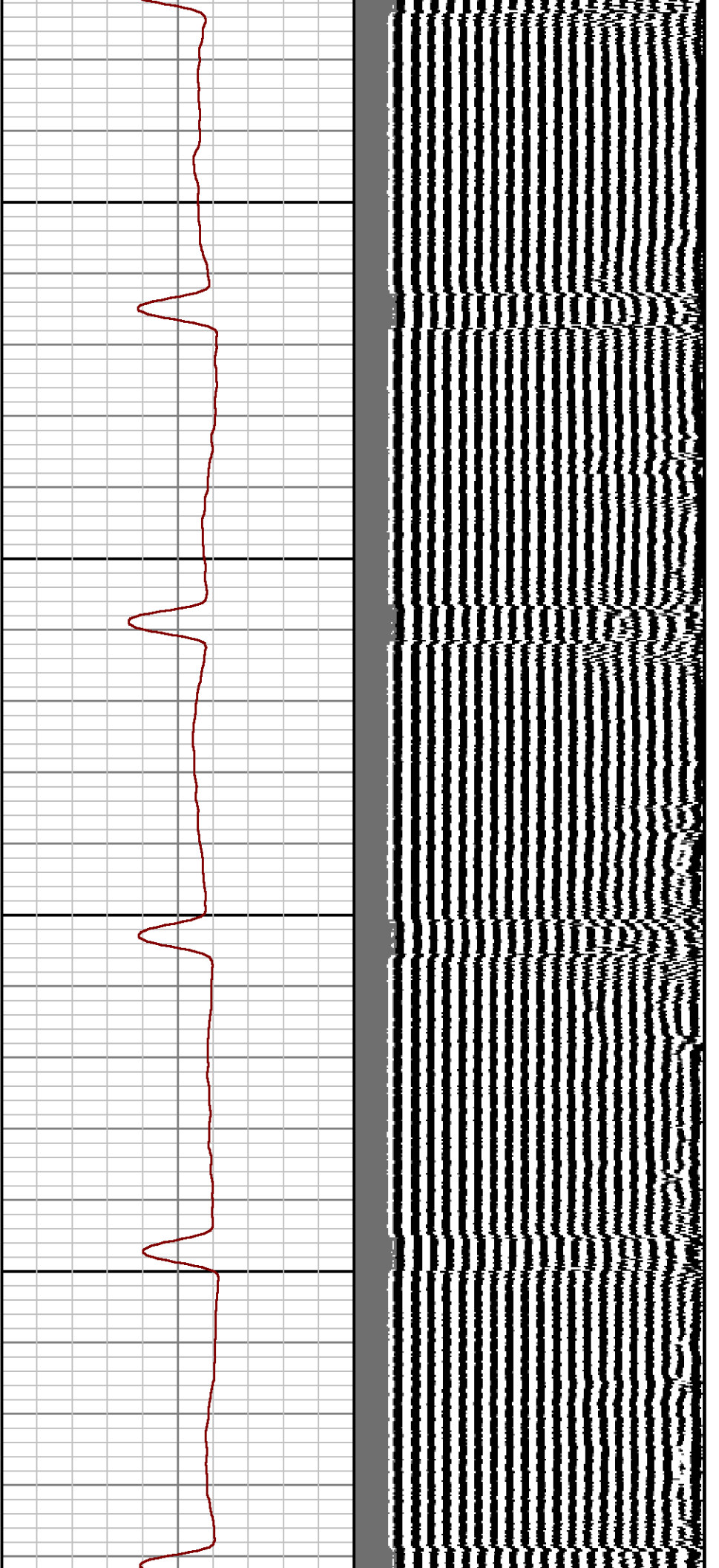
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Created : 3/10/2014 8:41:45 AM



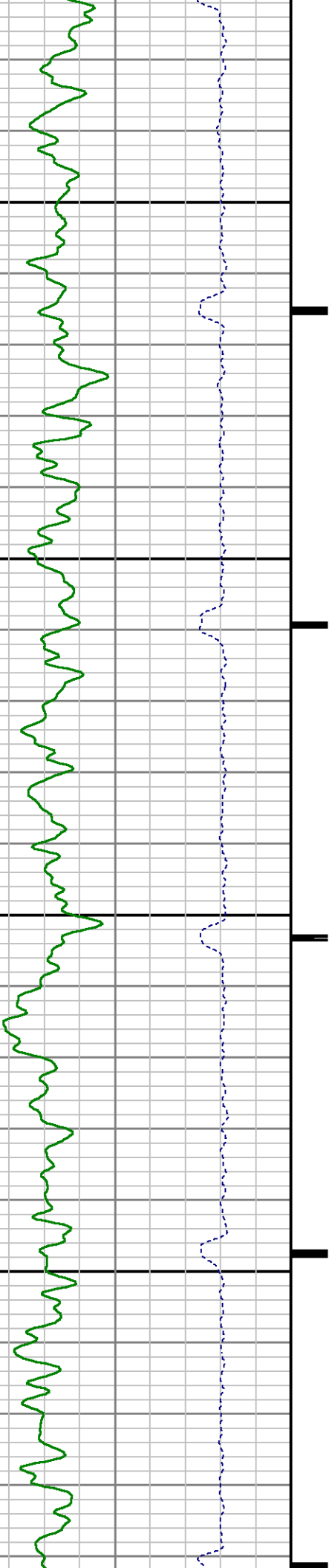


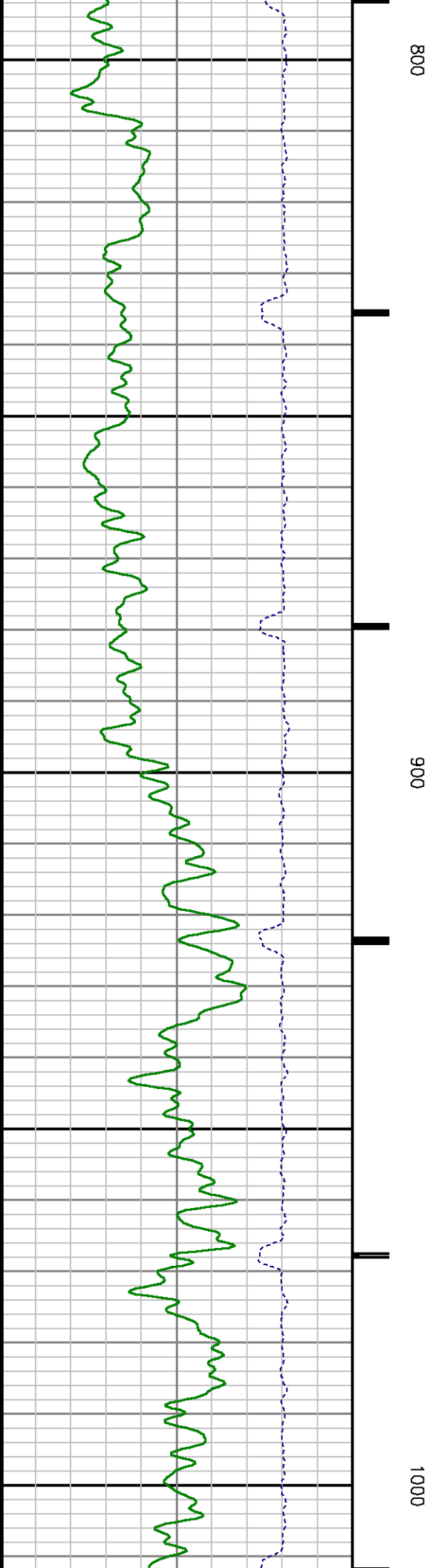
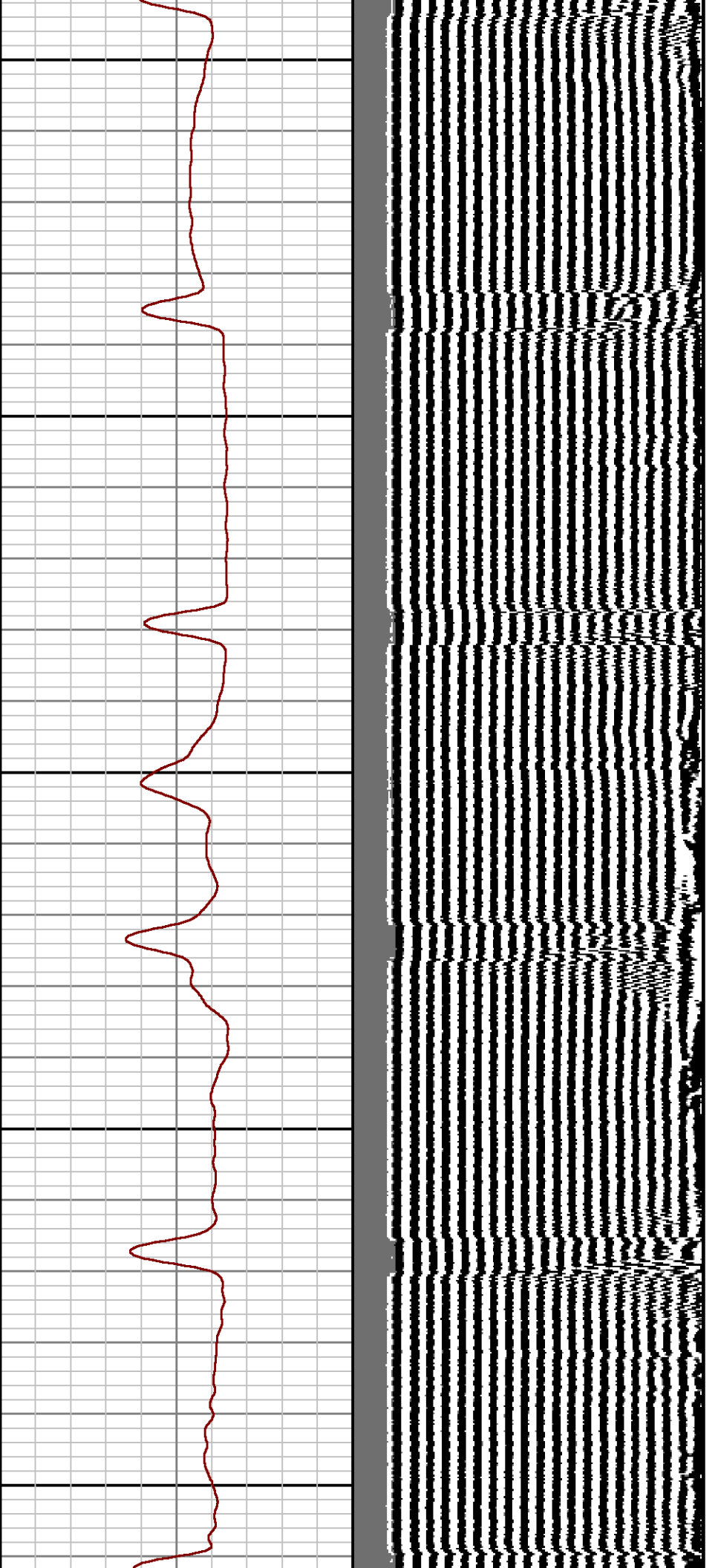


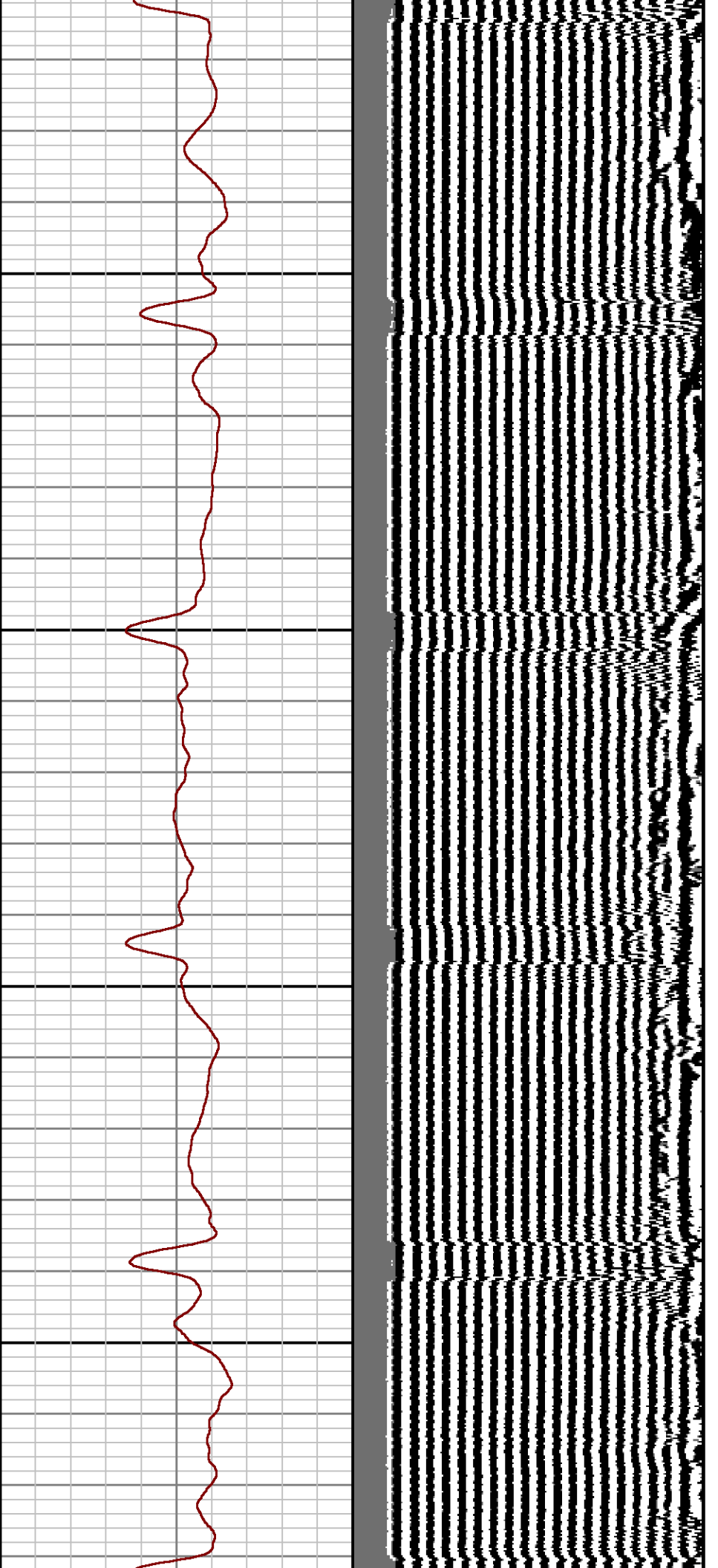


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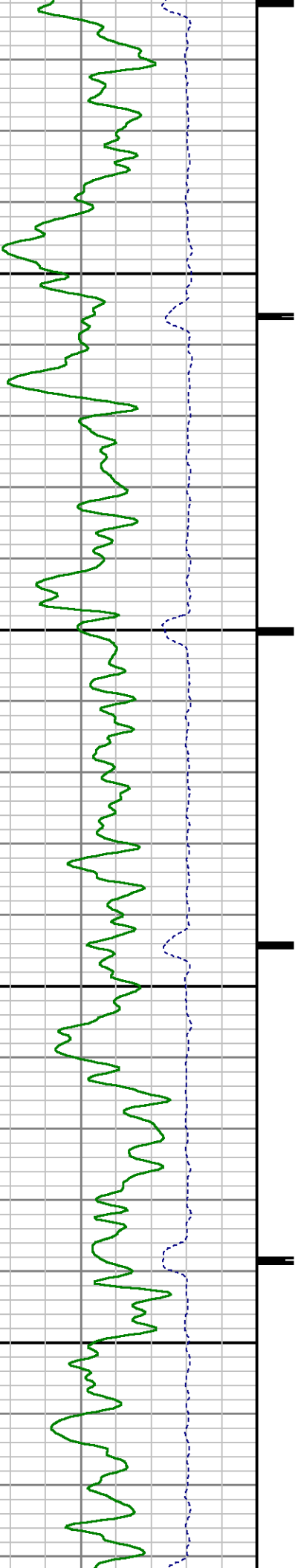


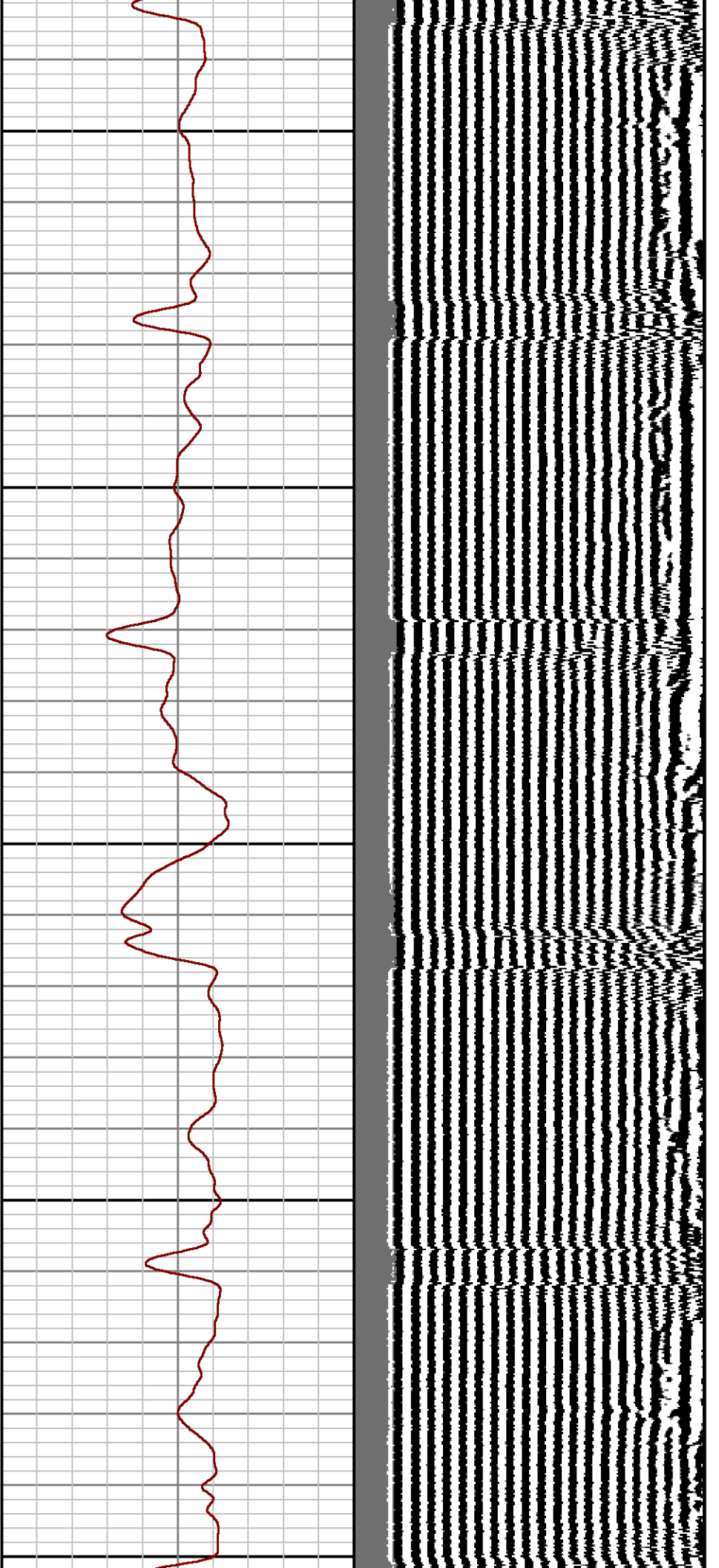




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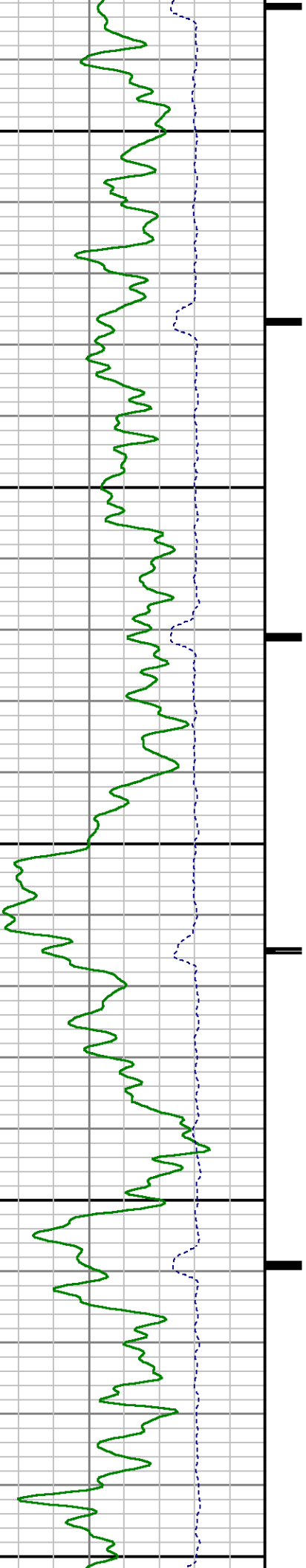
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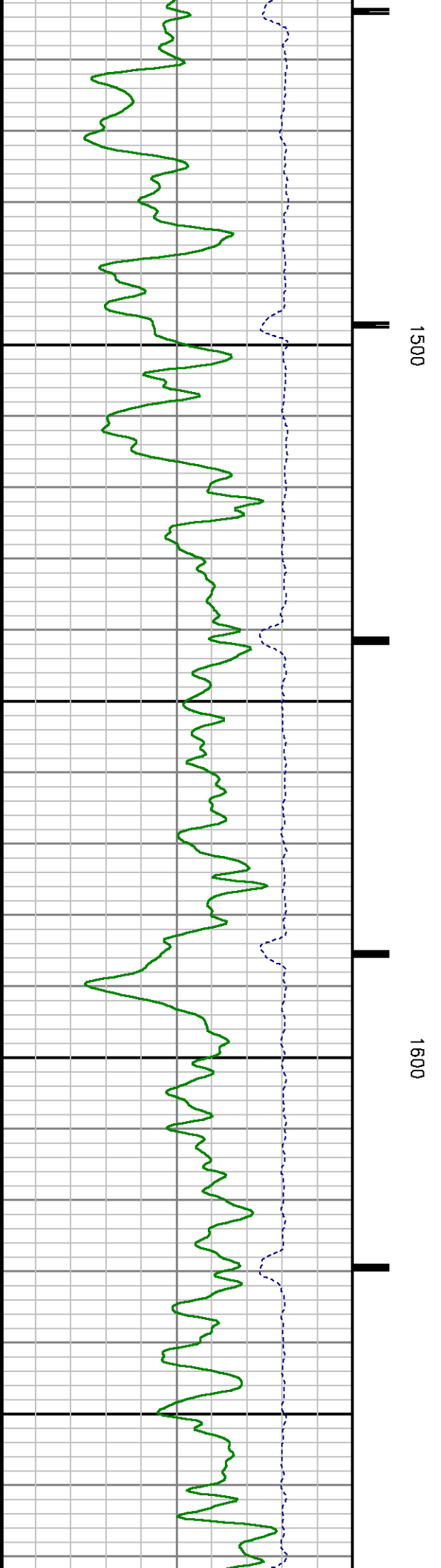
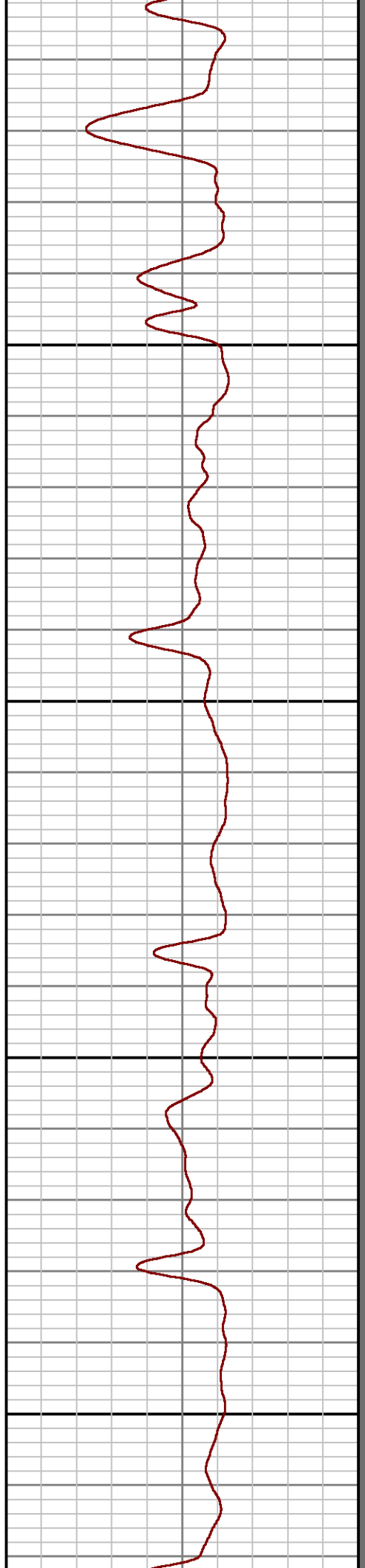
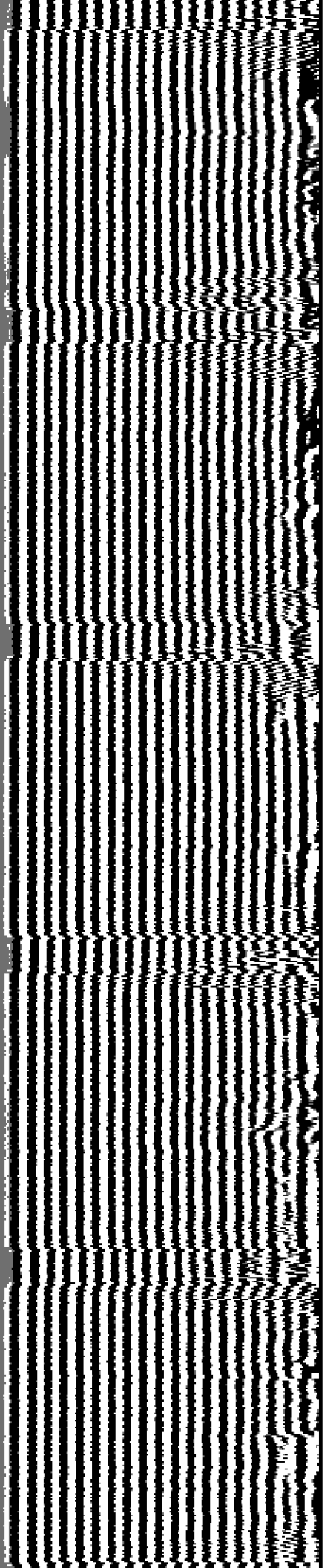


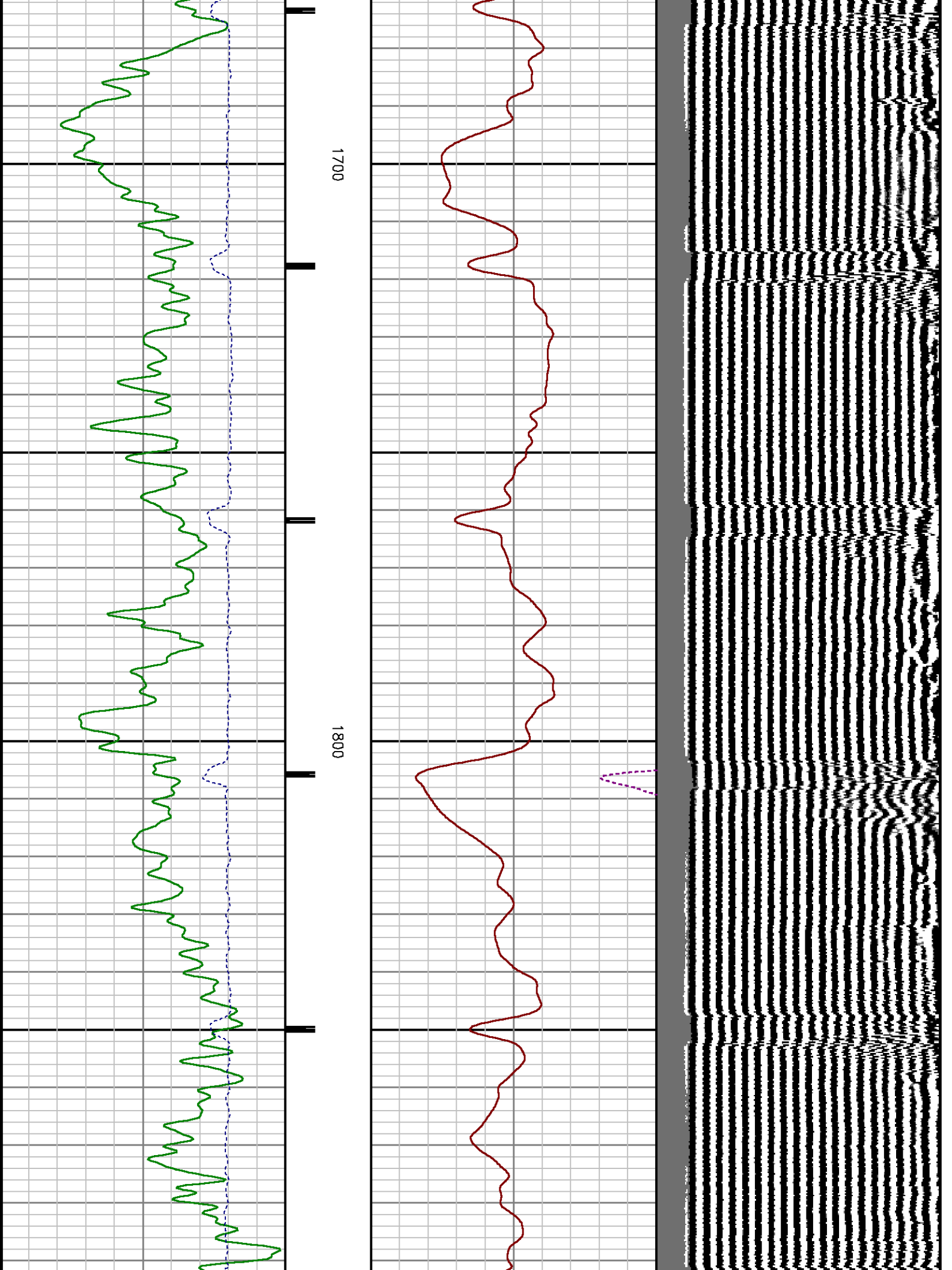


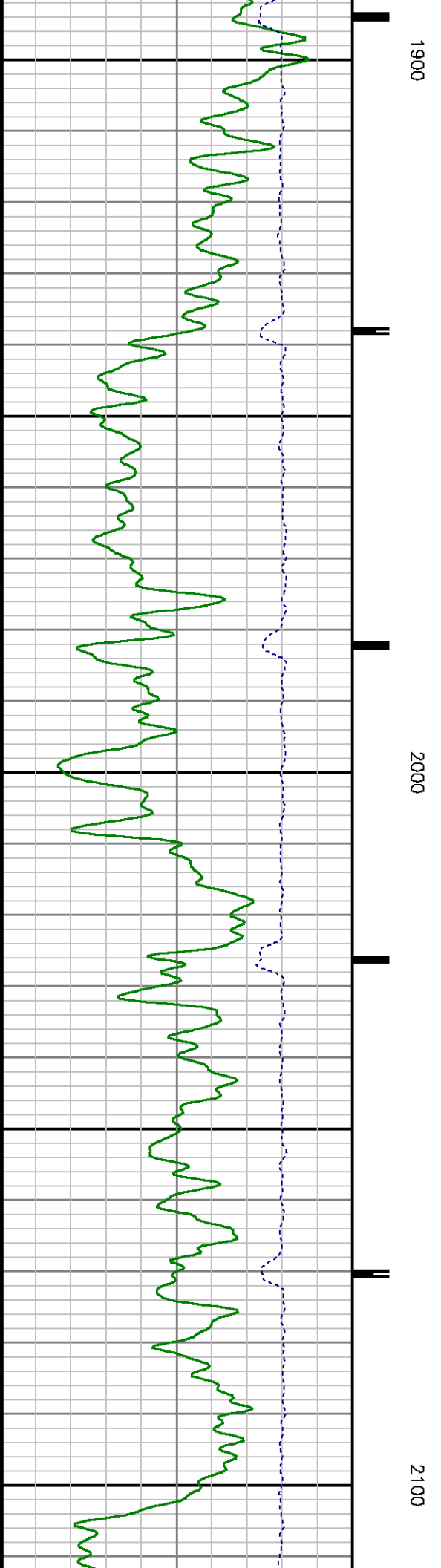
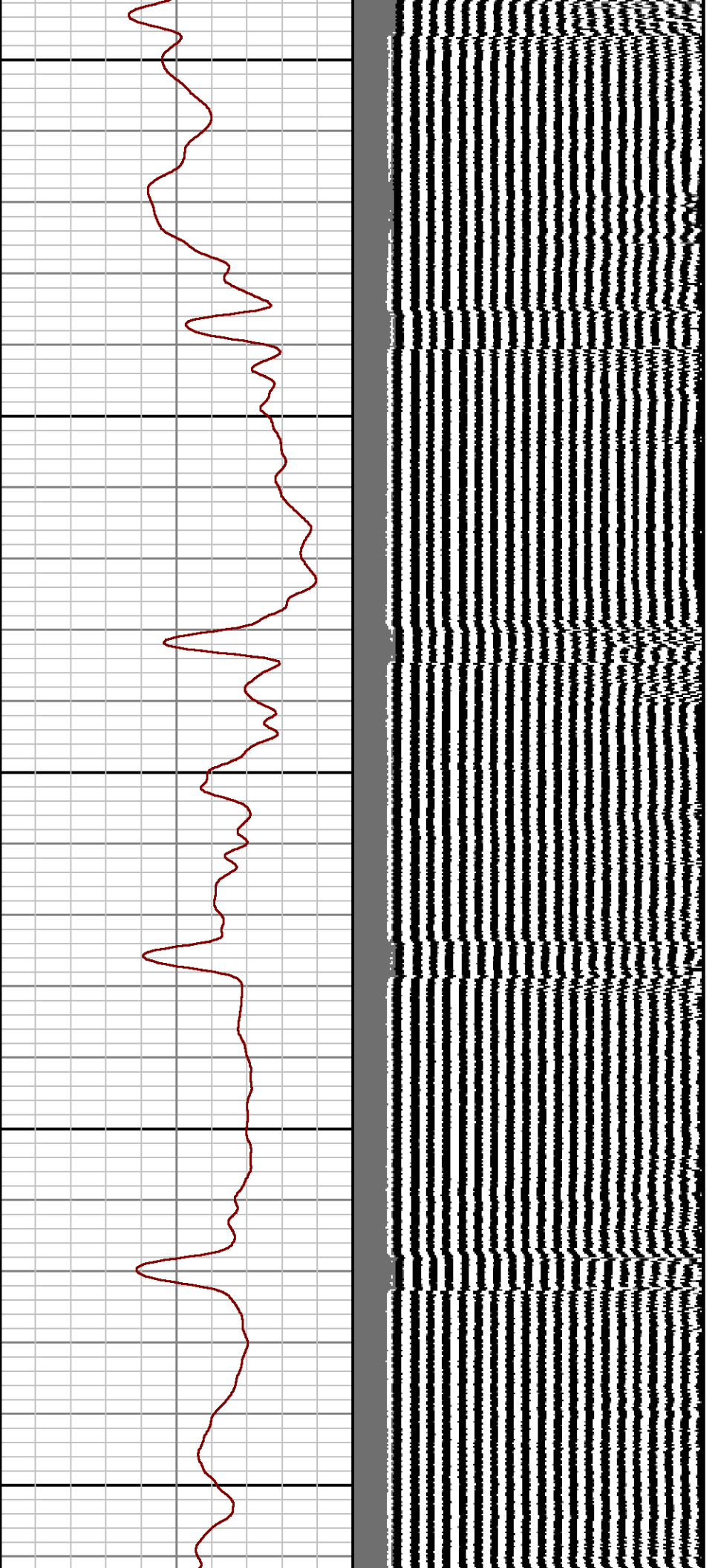
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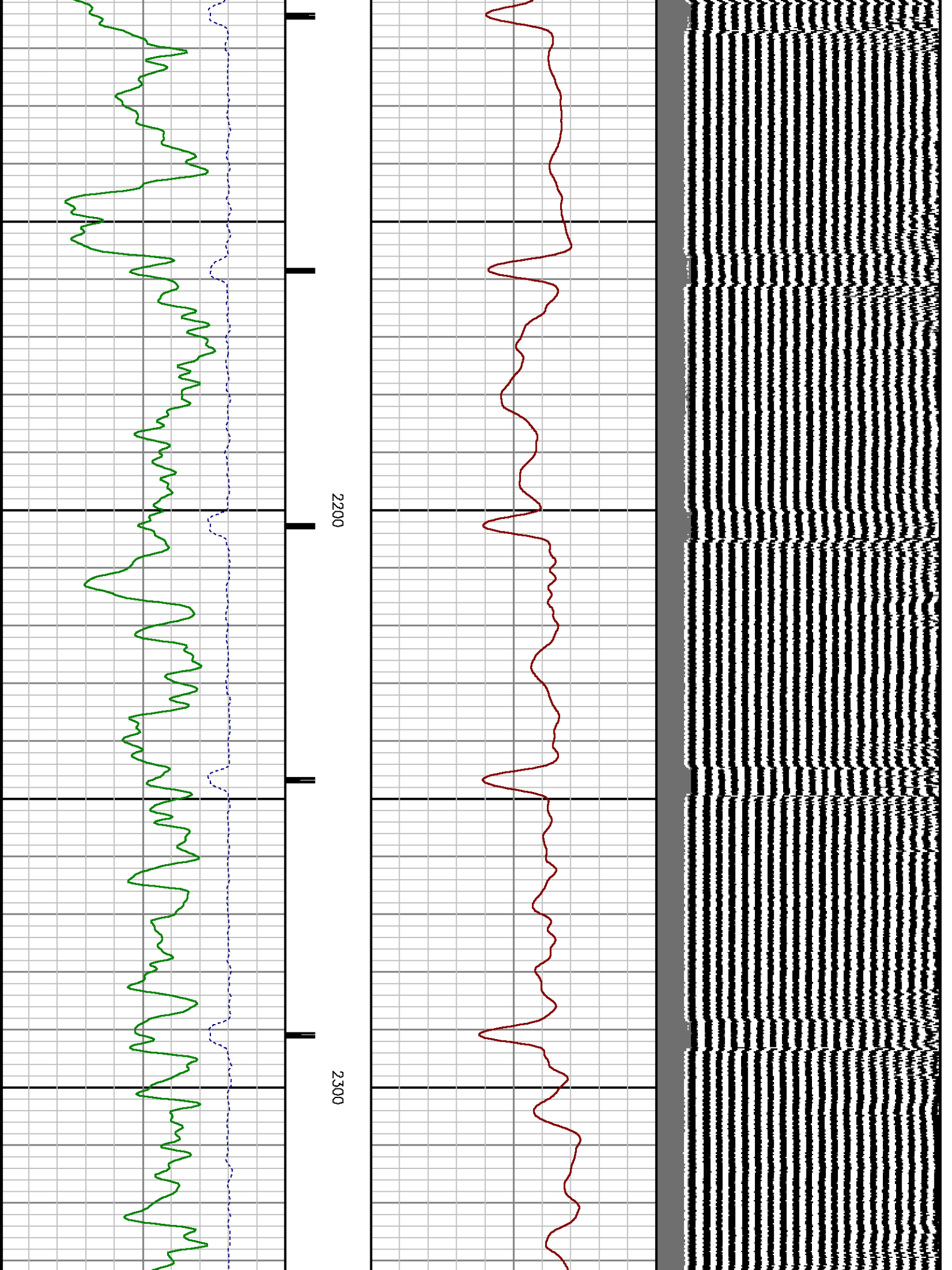
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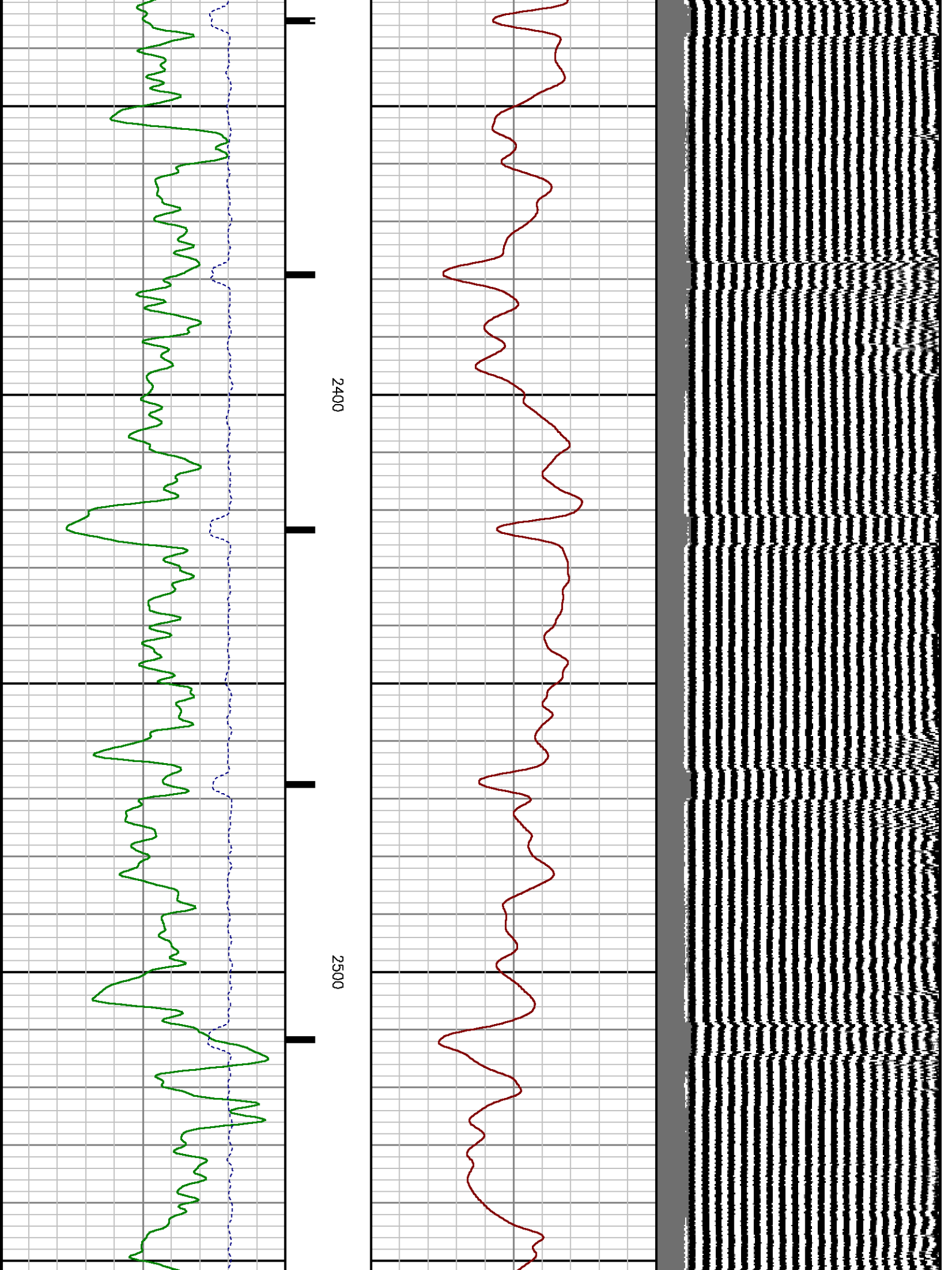


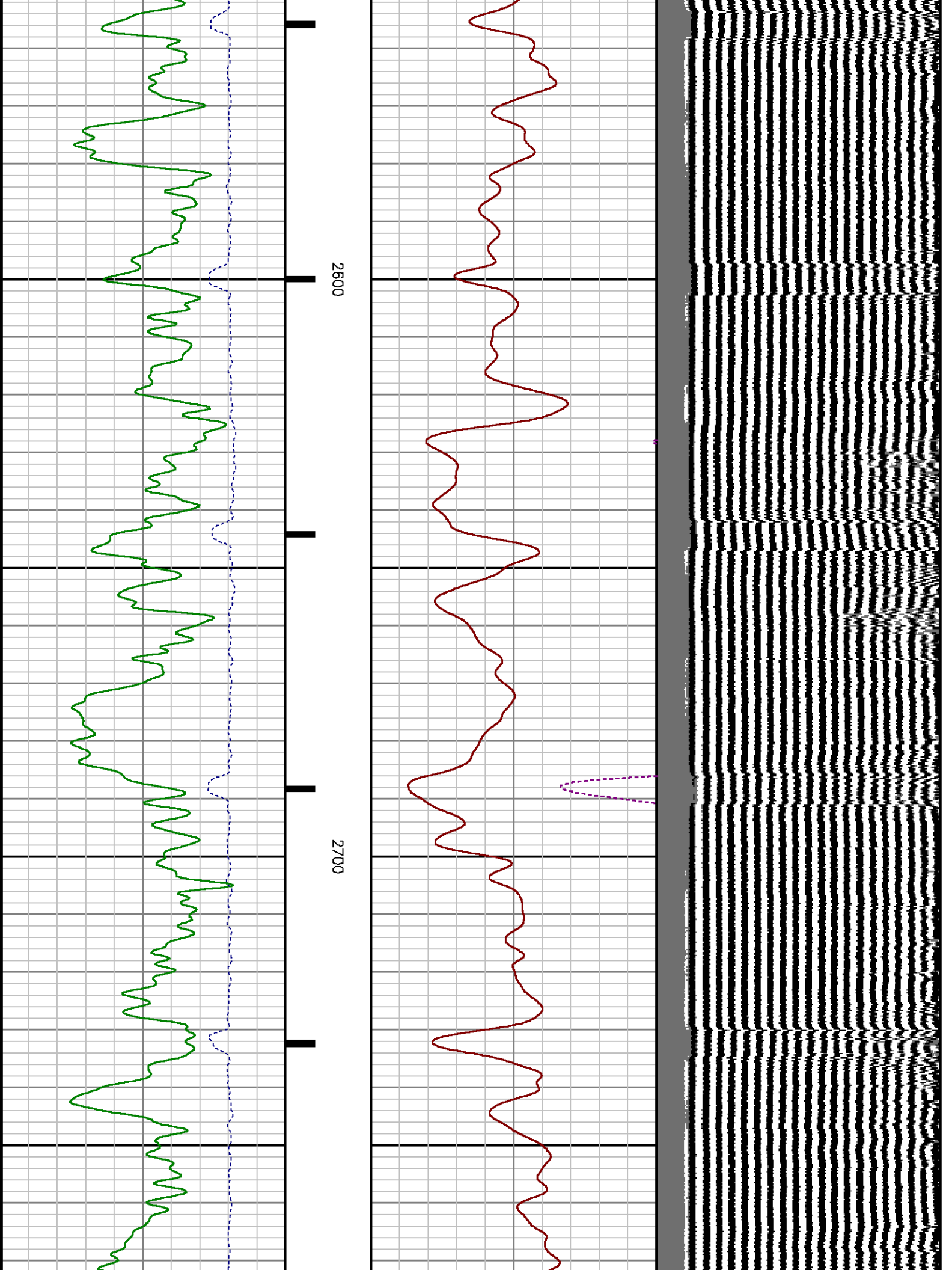


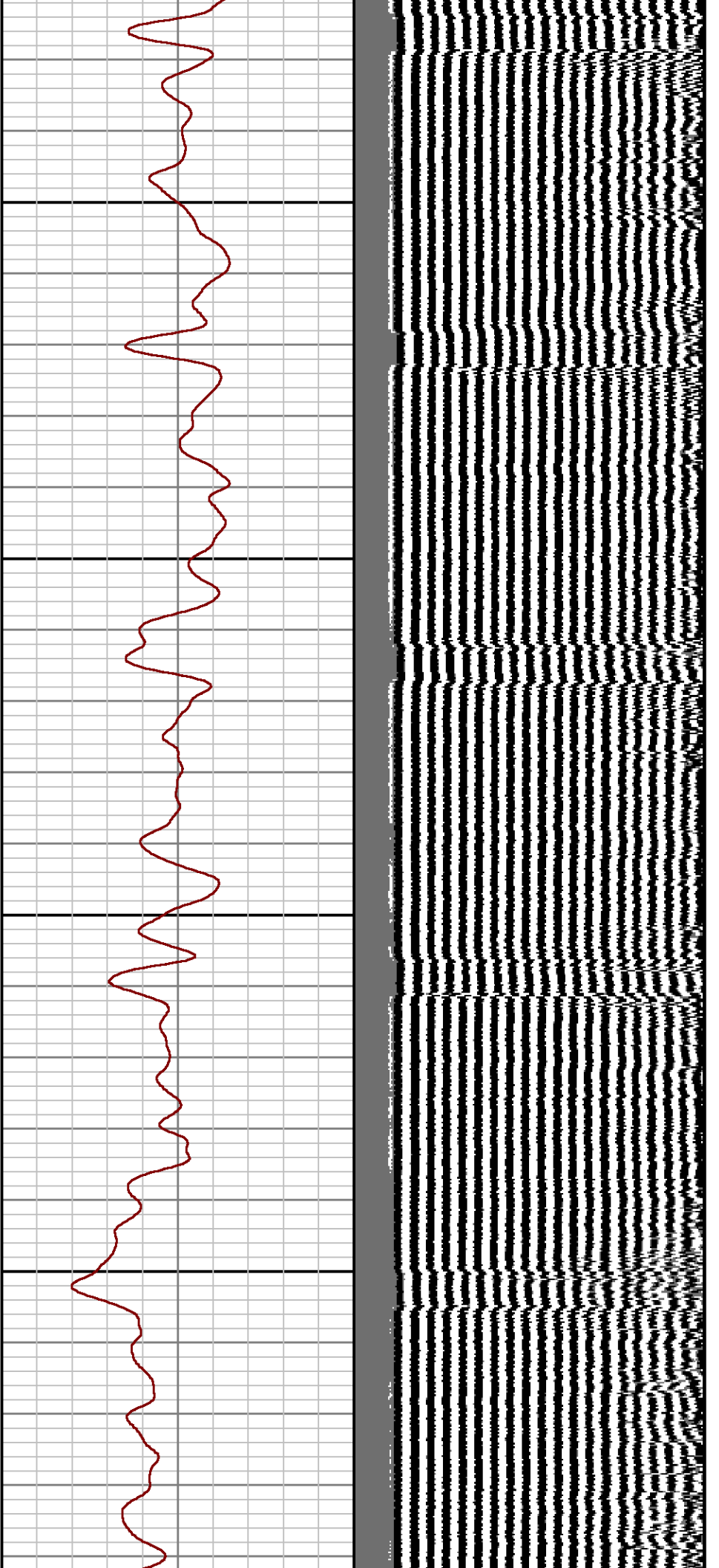






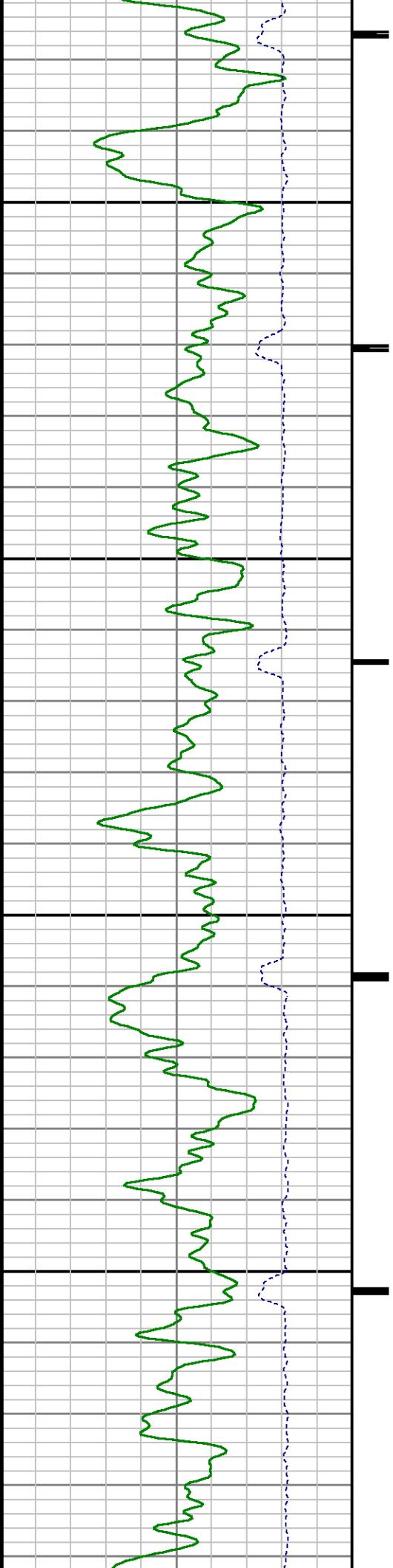


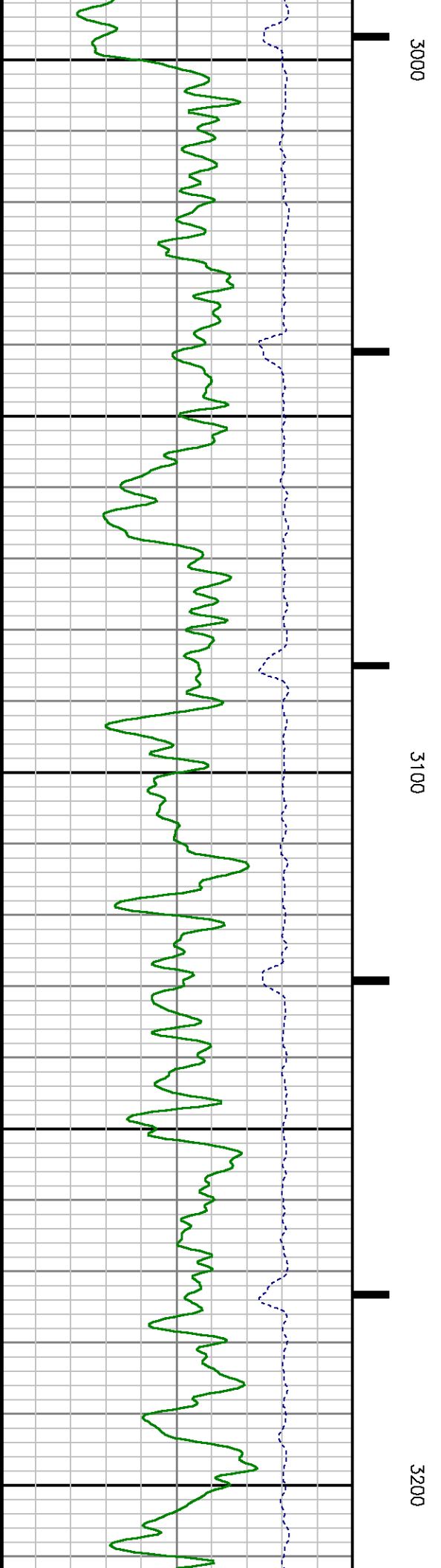
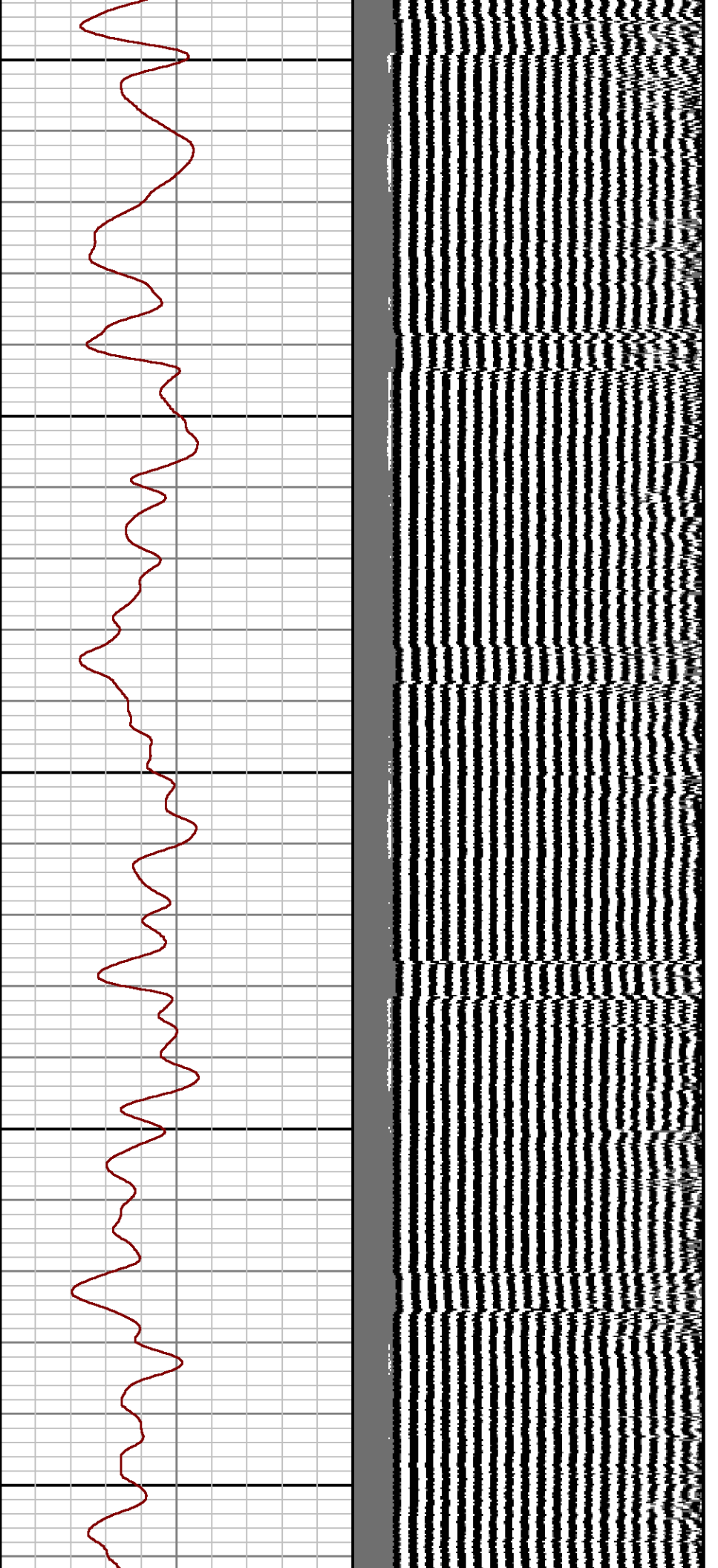


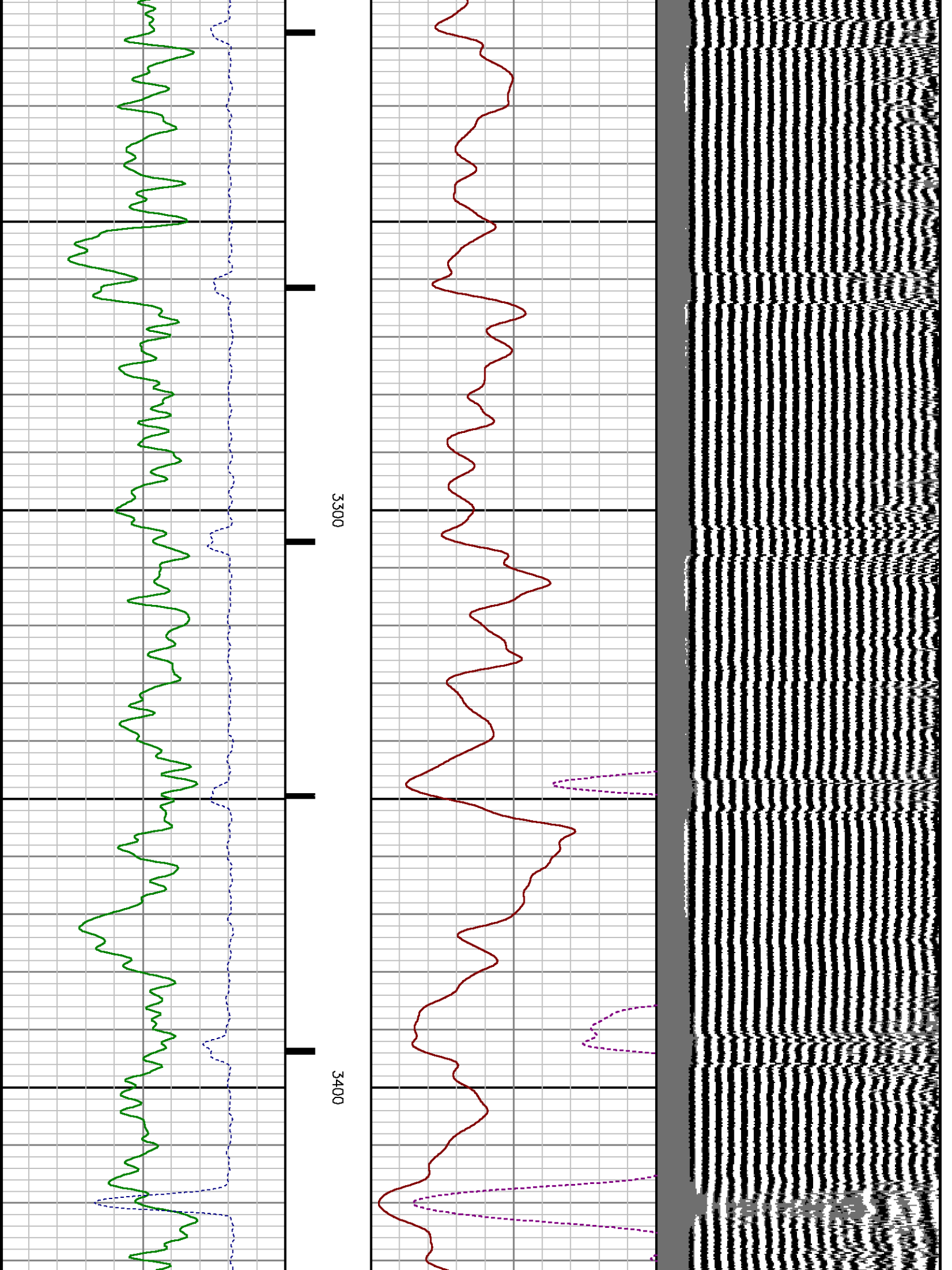


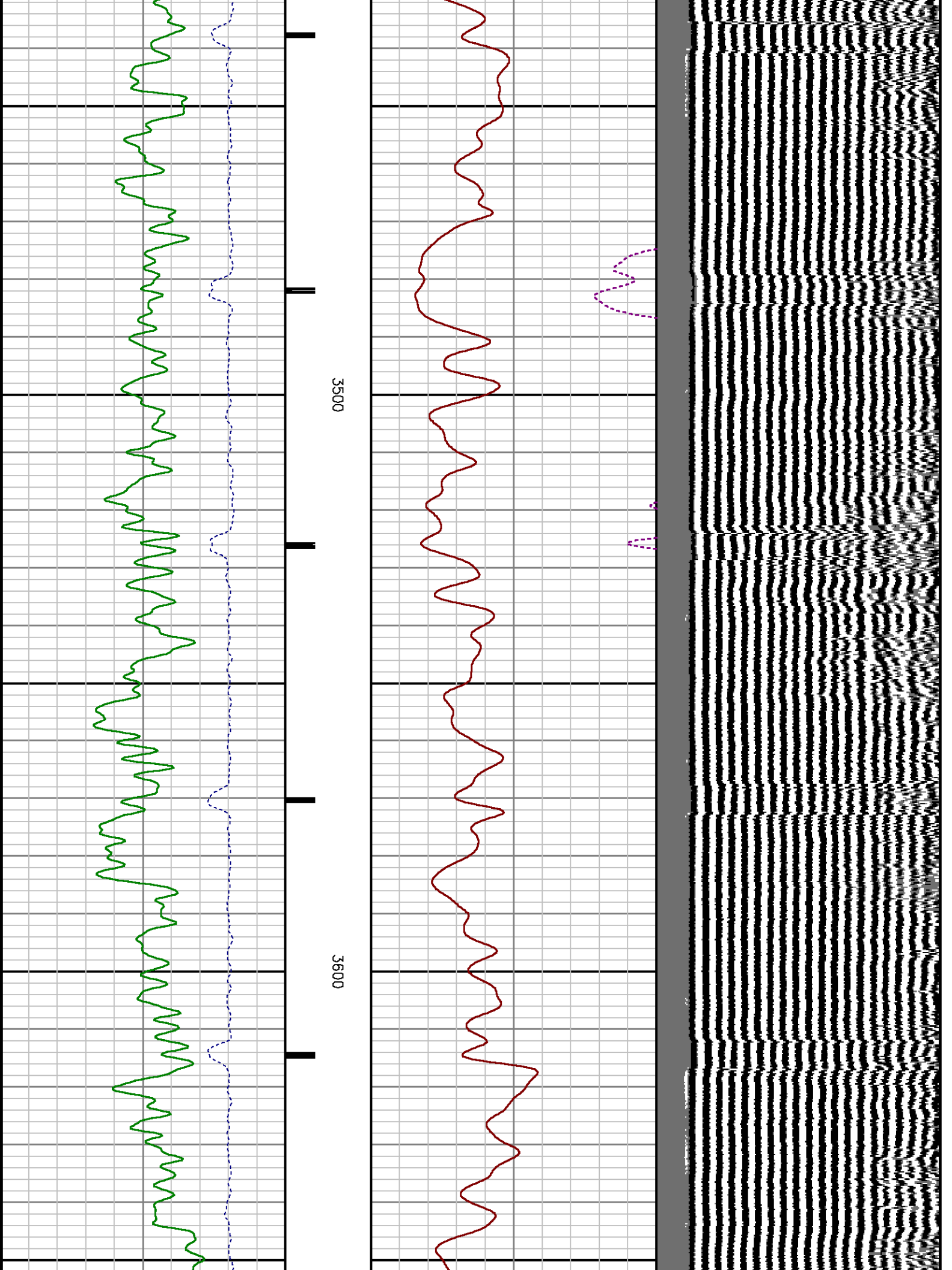
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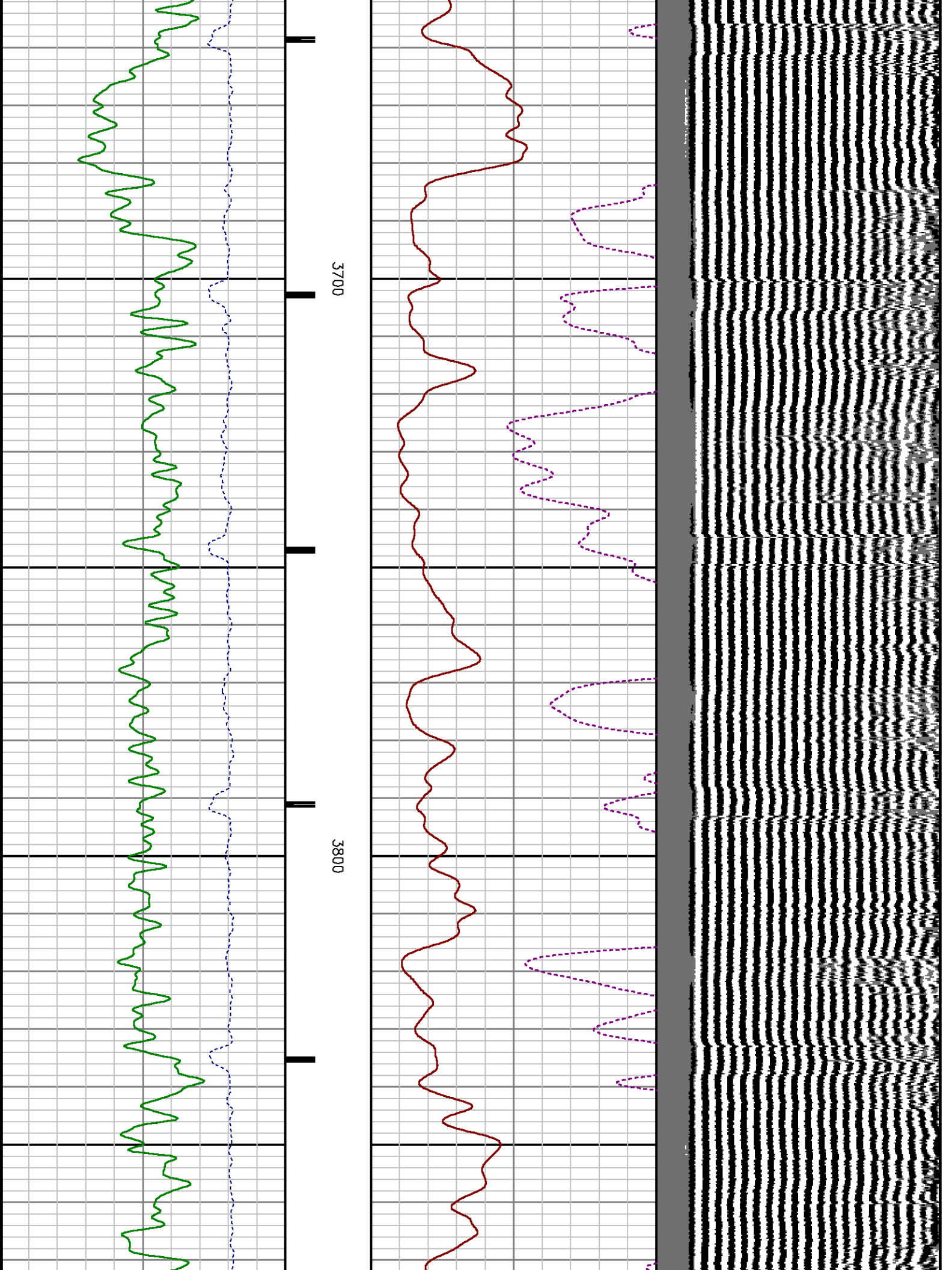
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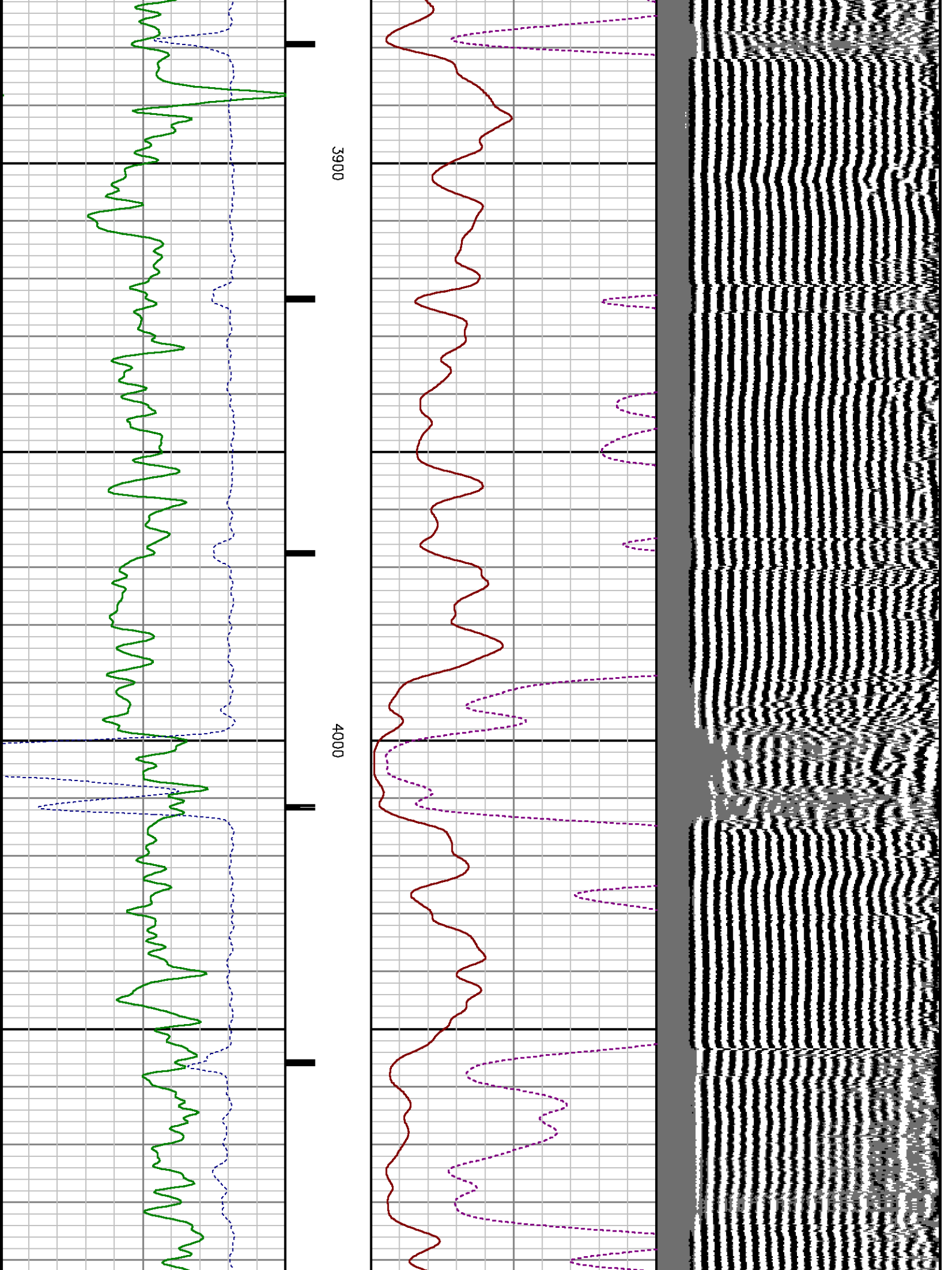


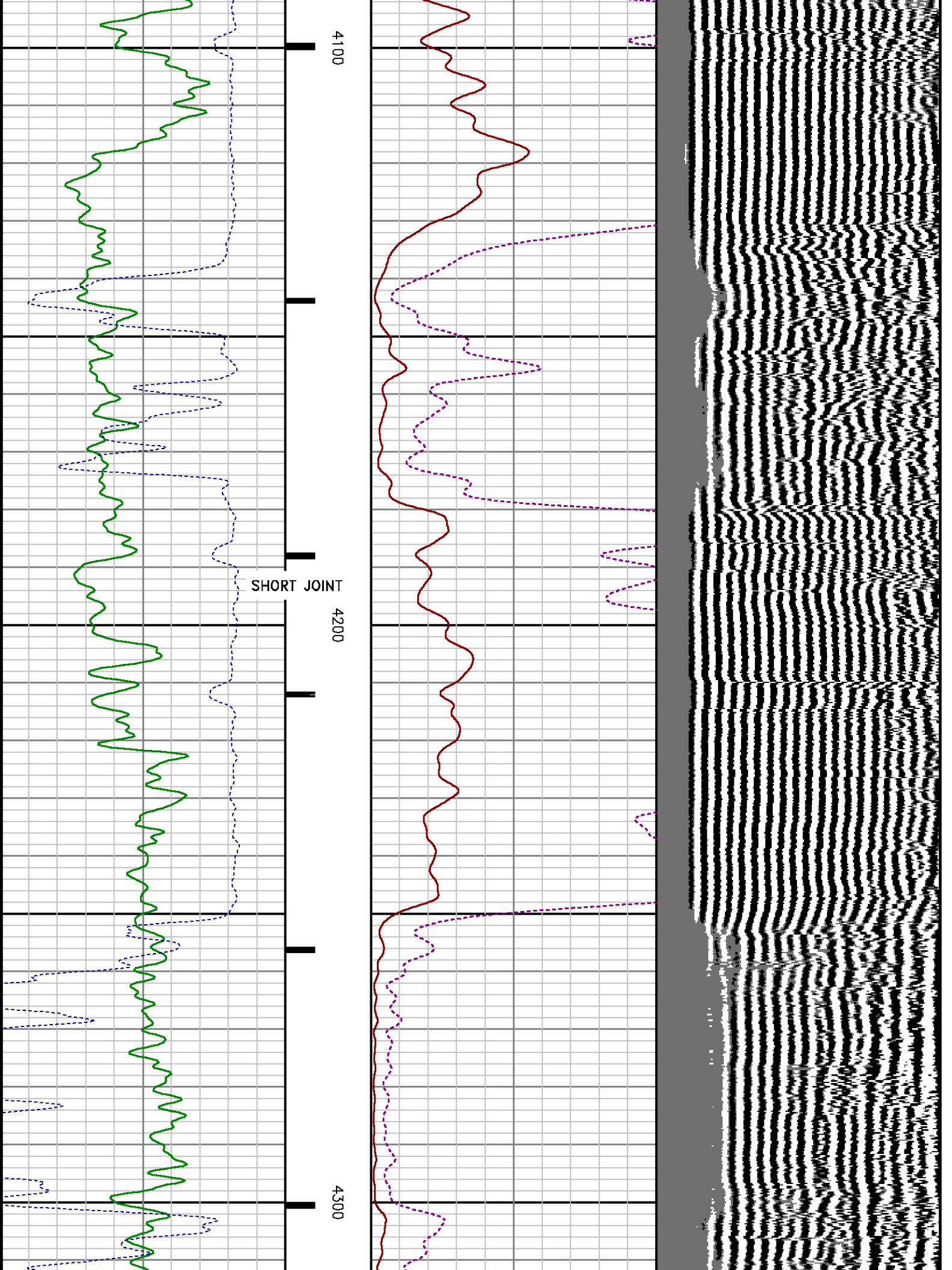


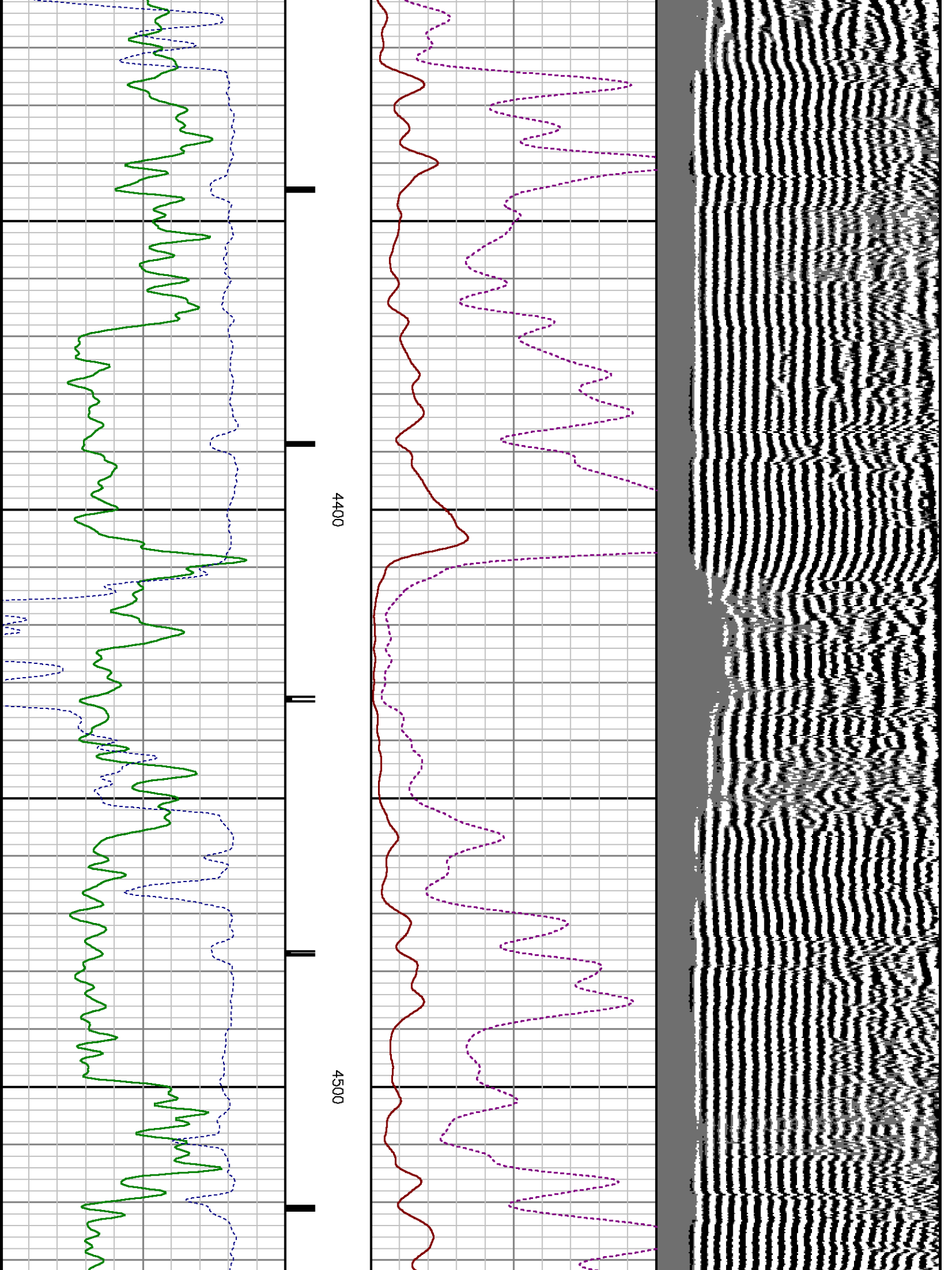


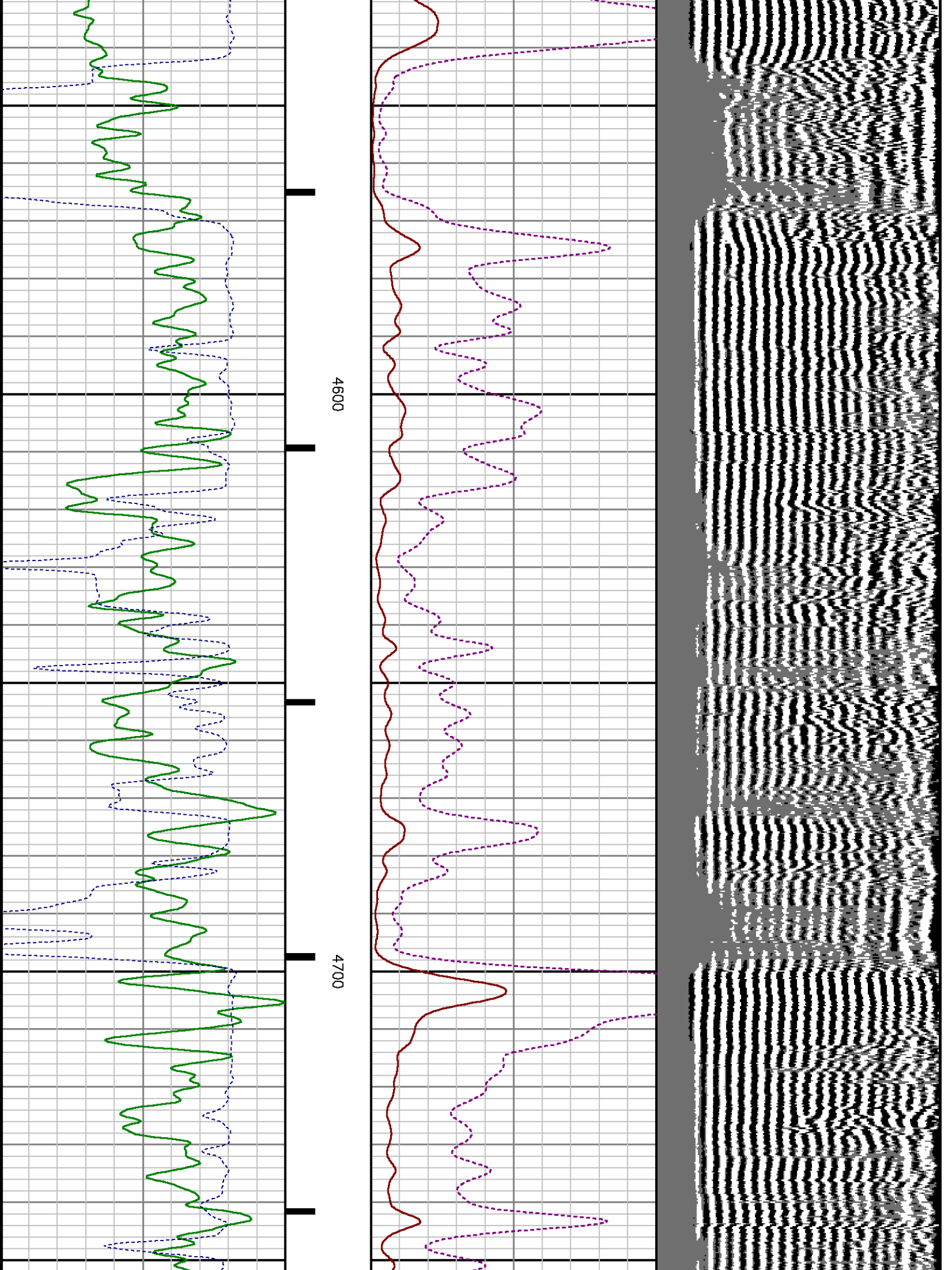


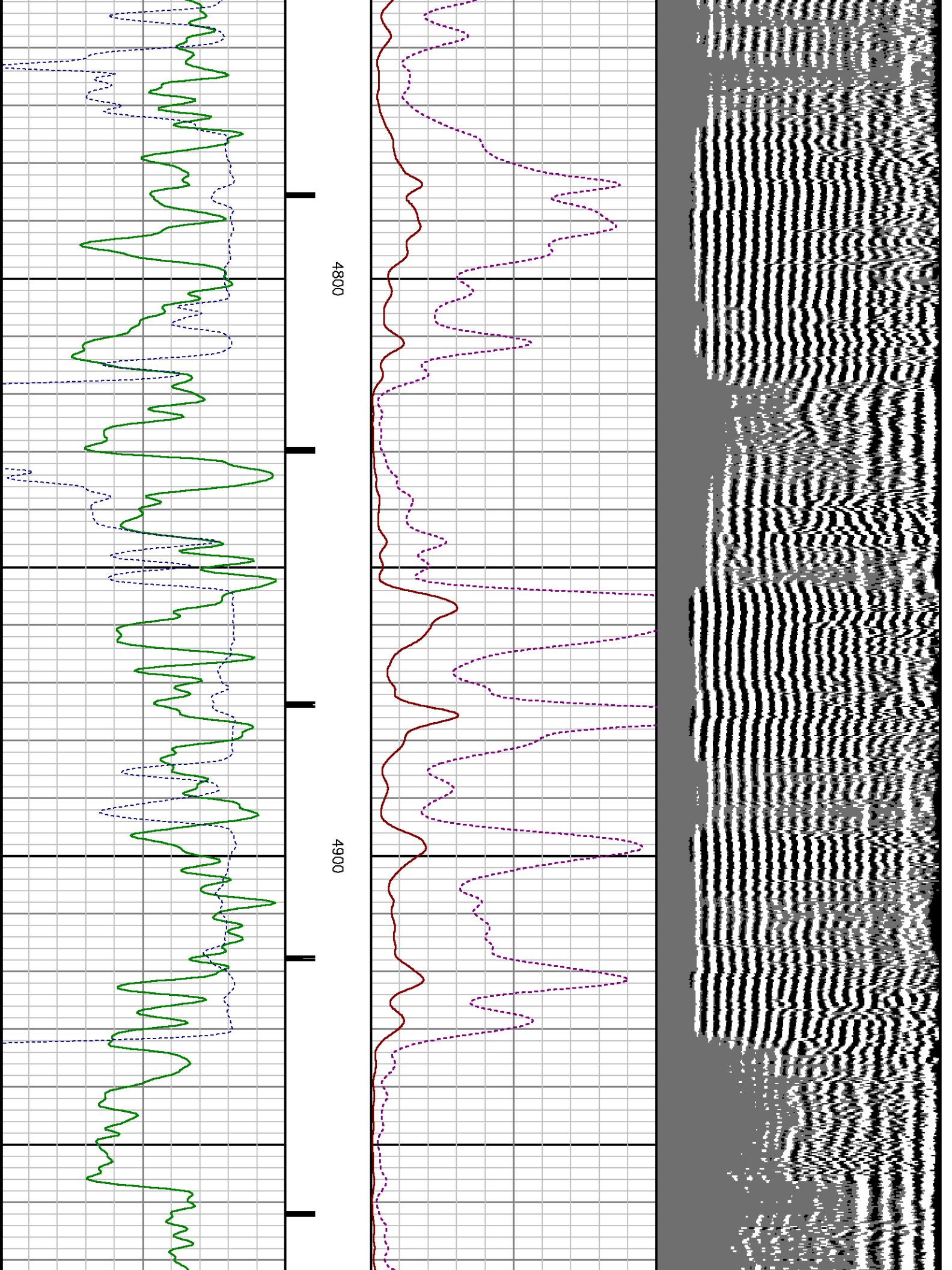


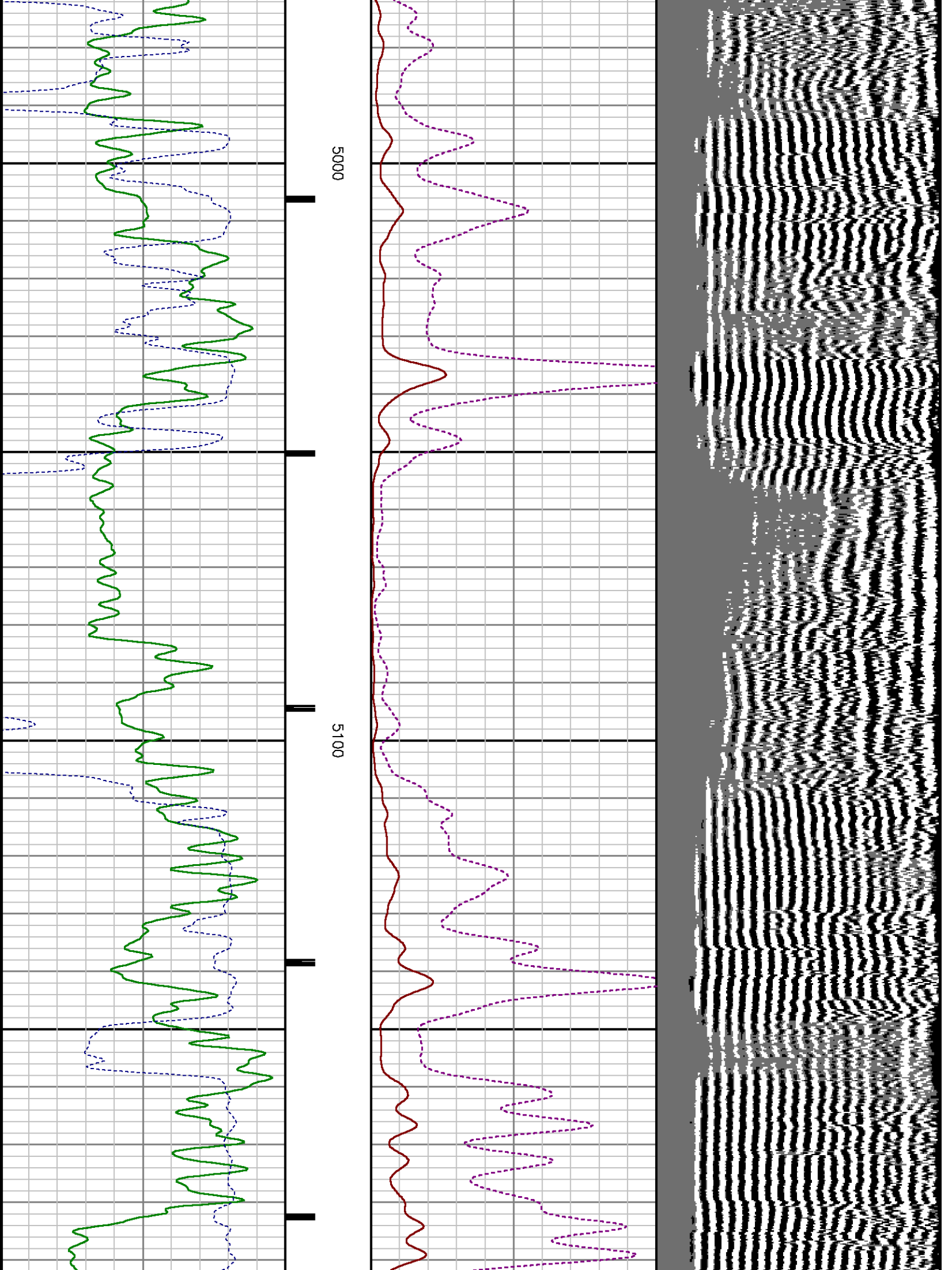


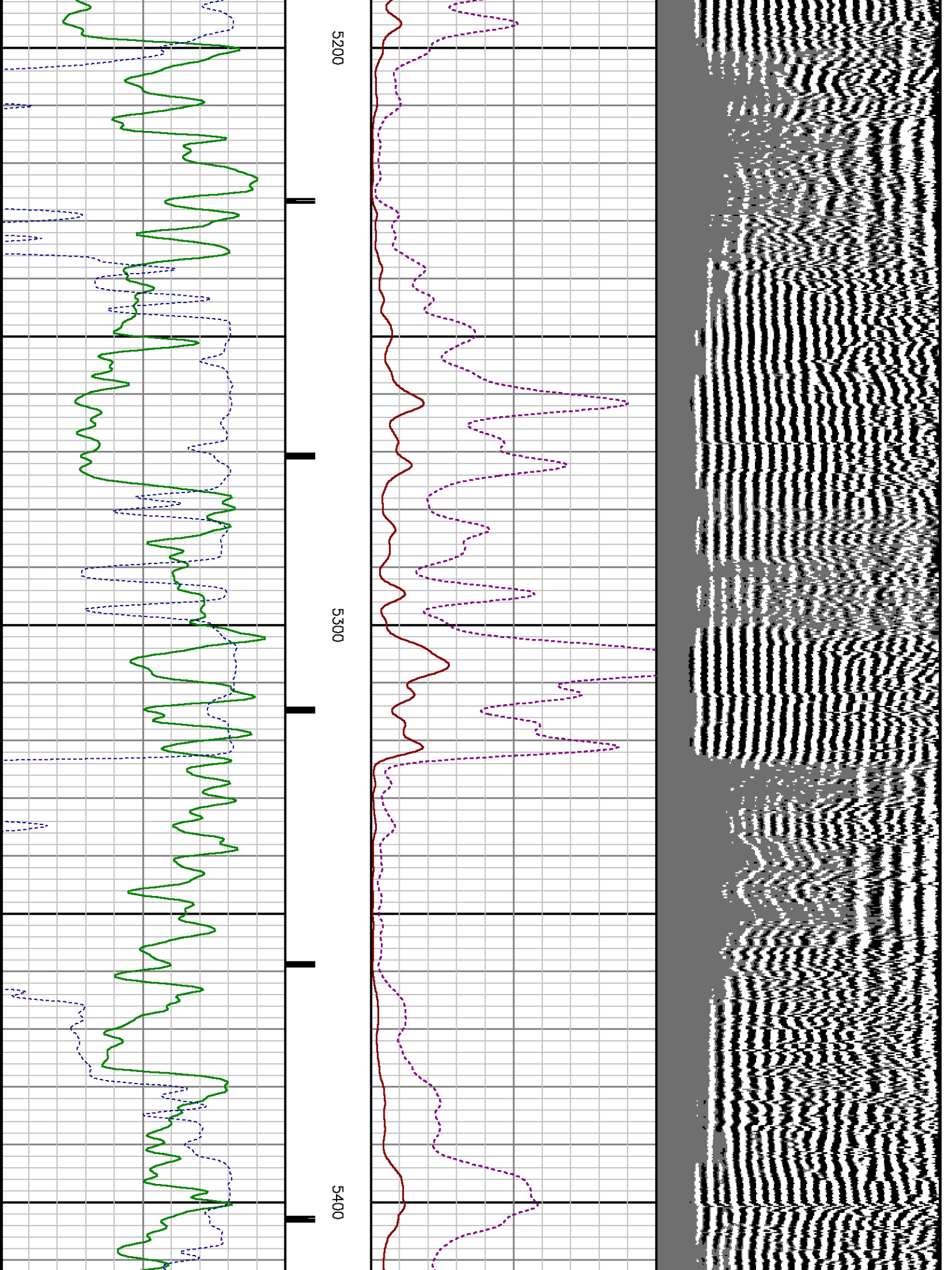


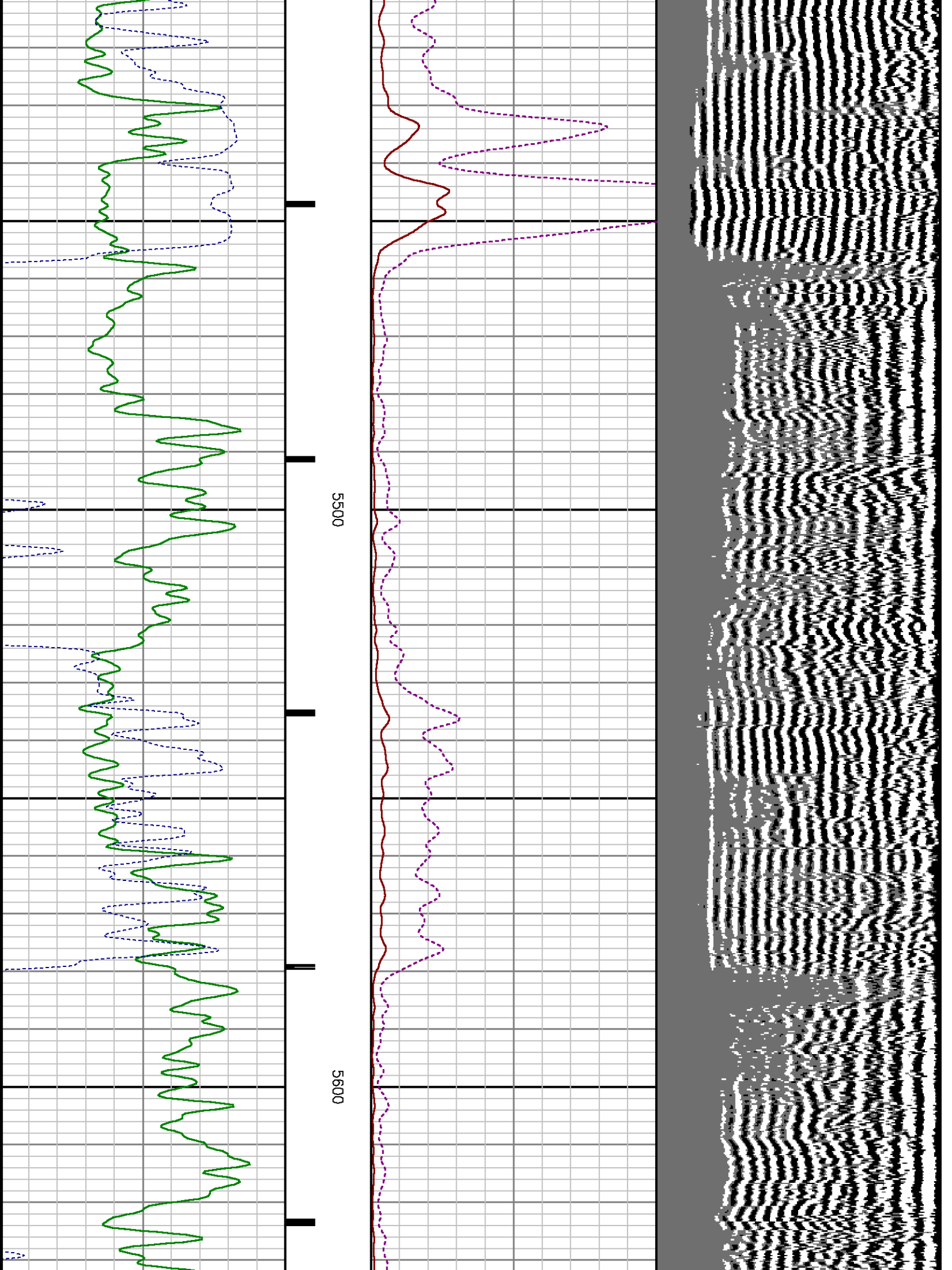


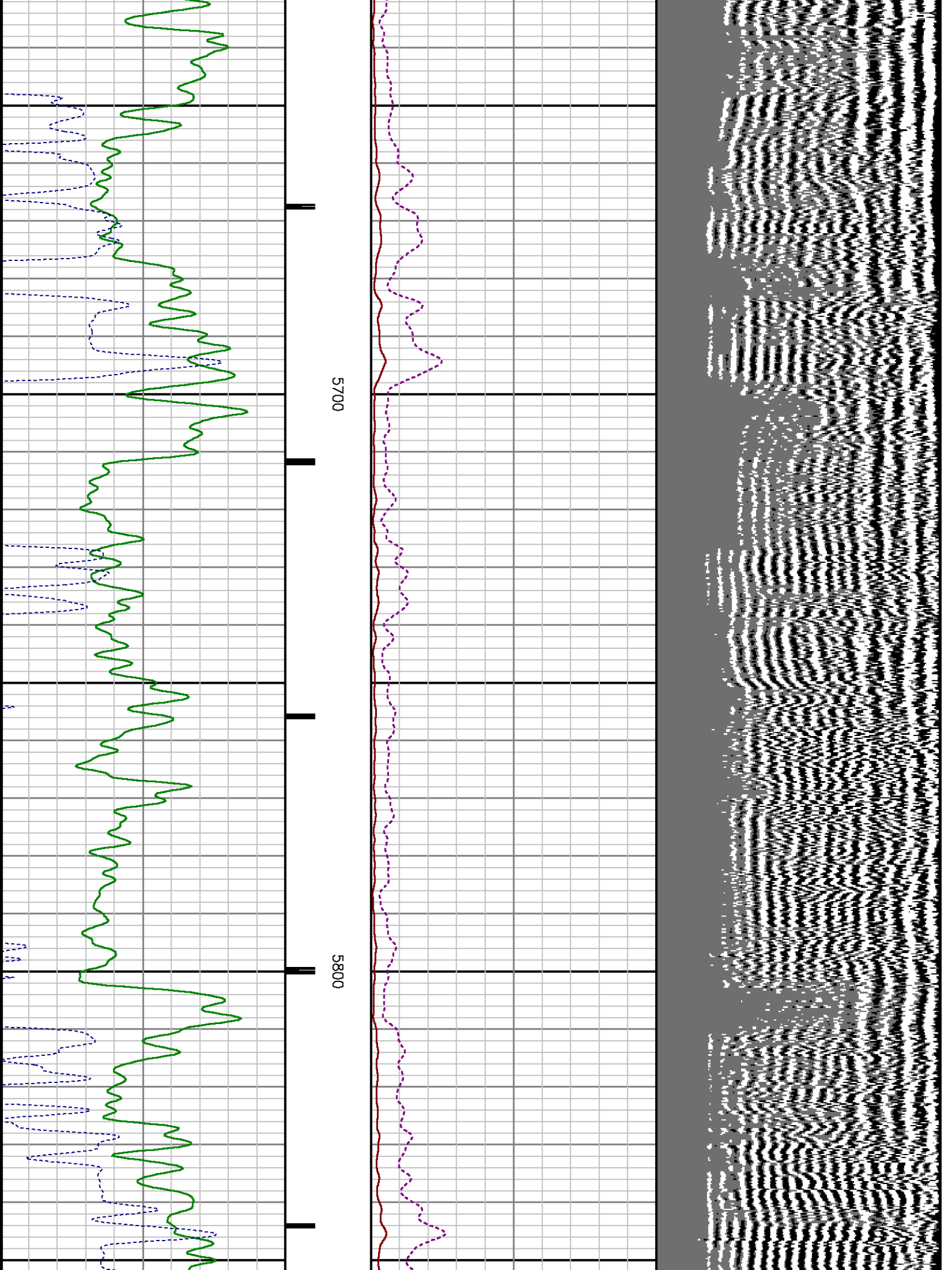


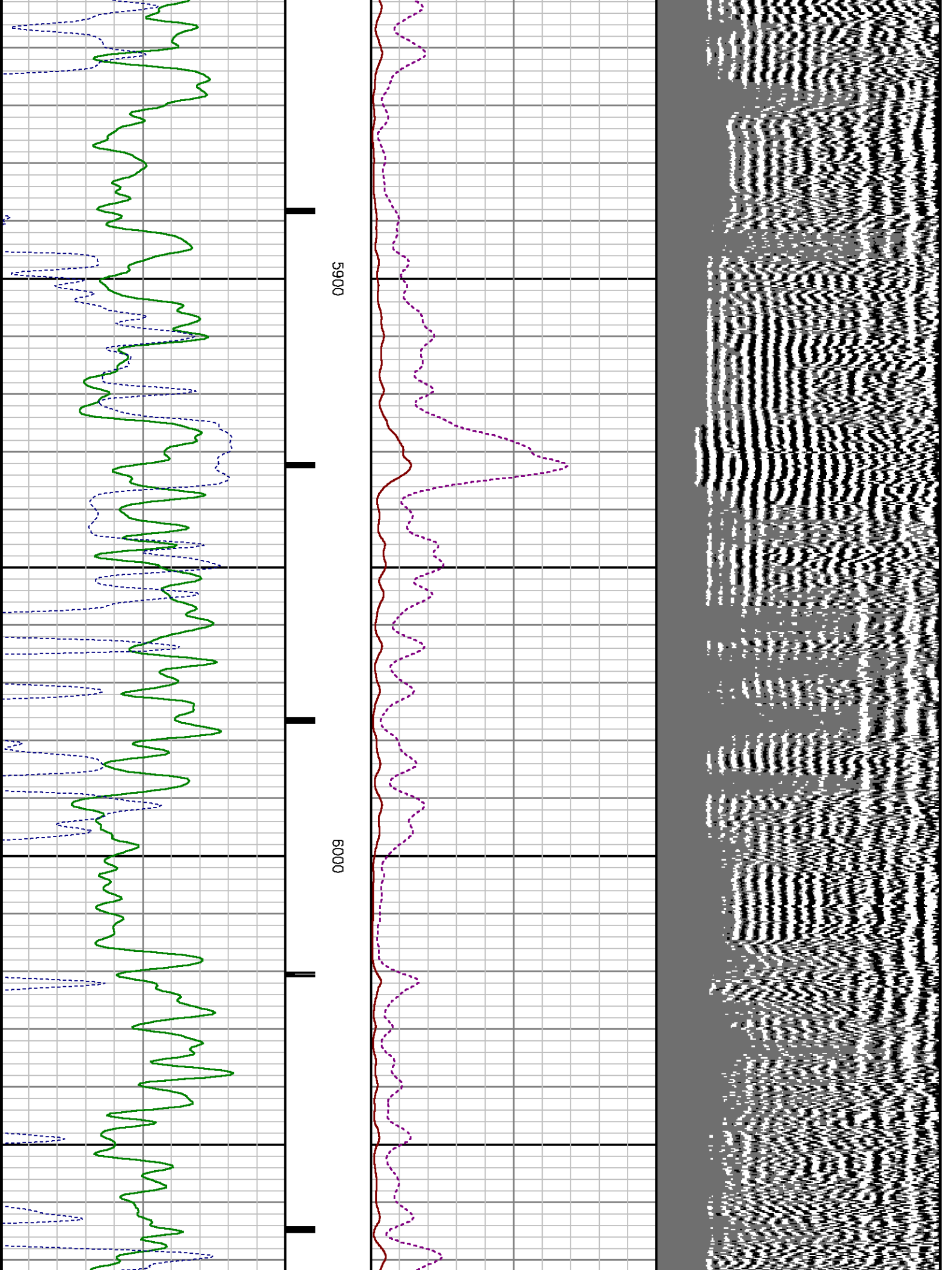


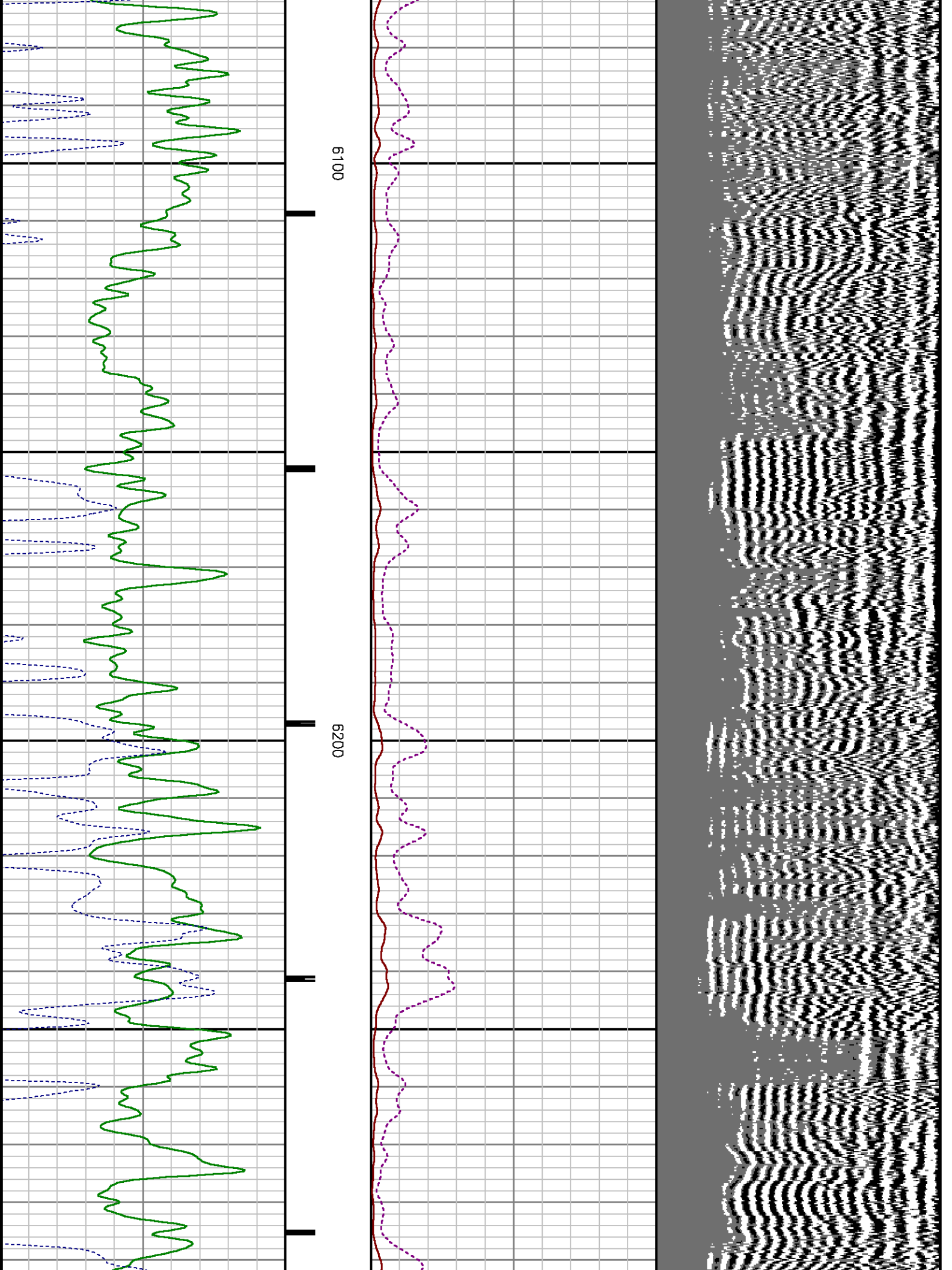


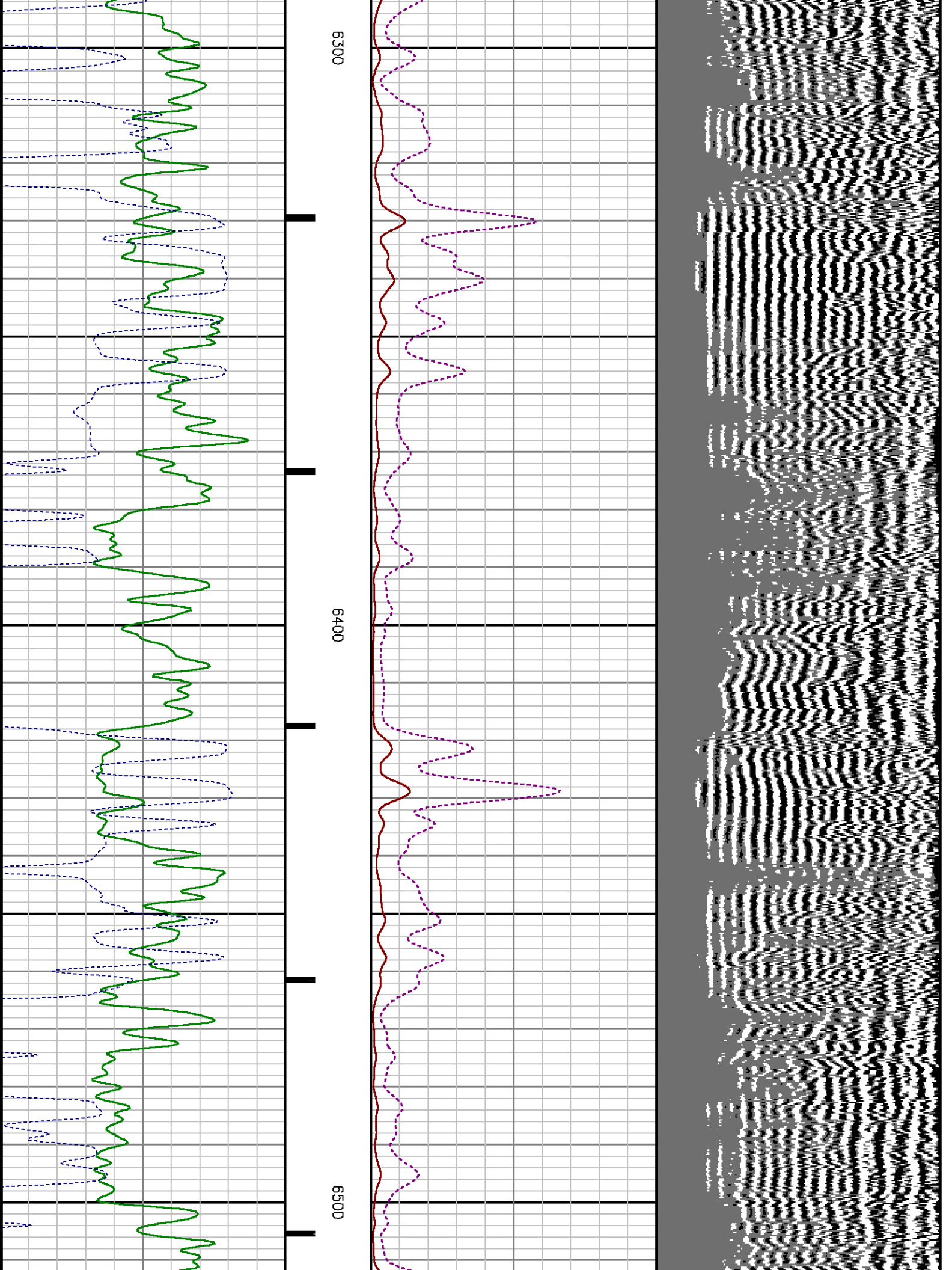


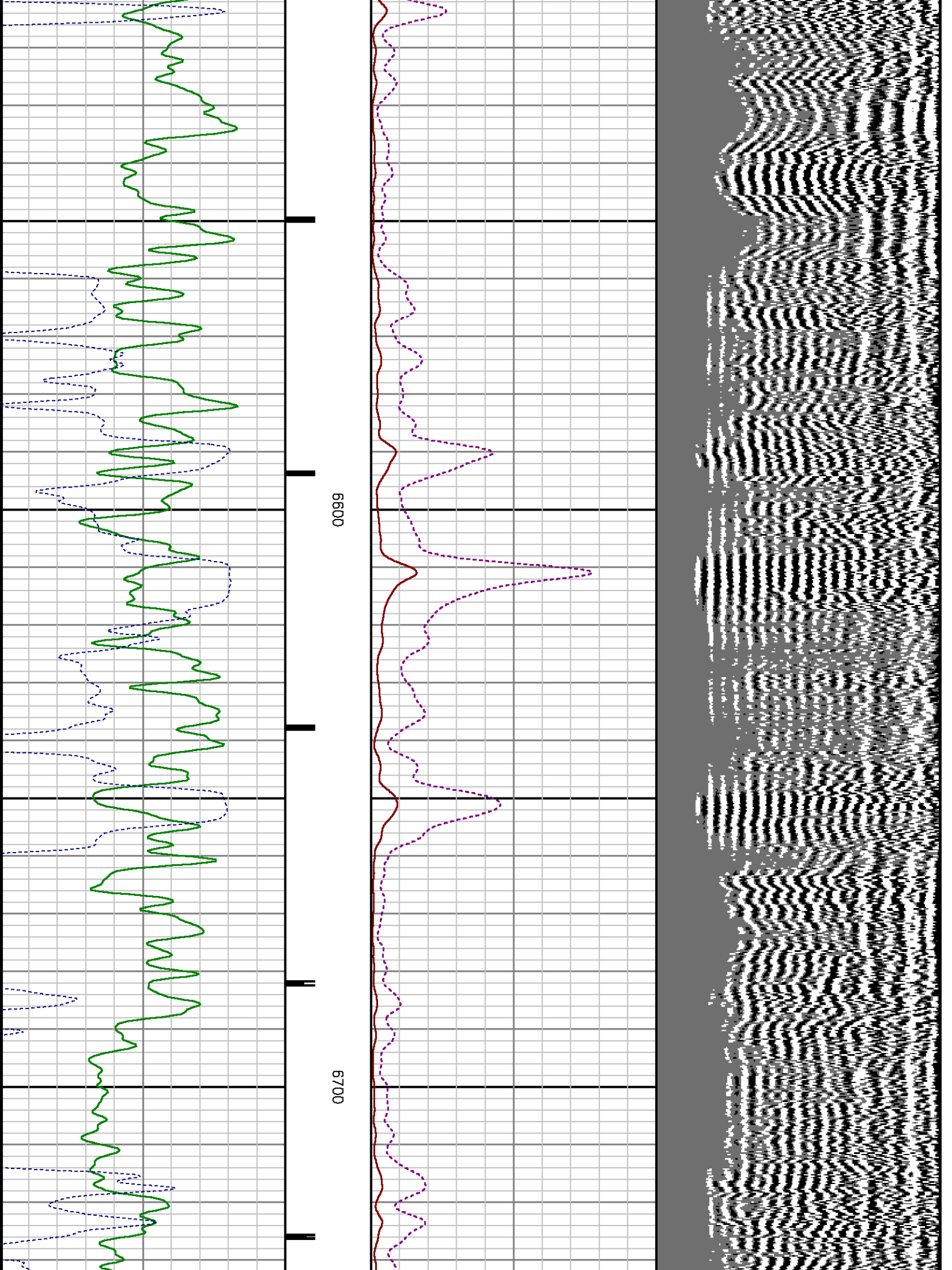


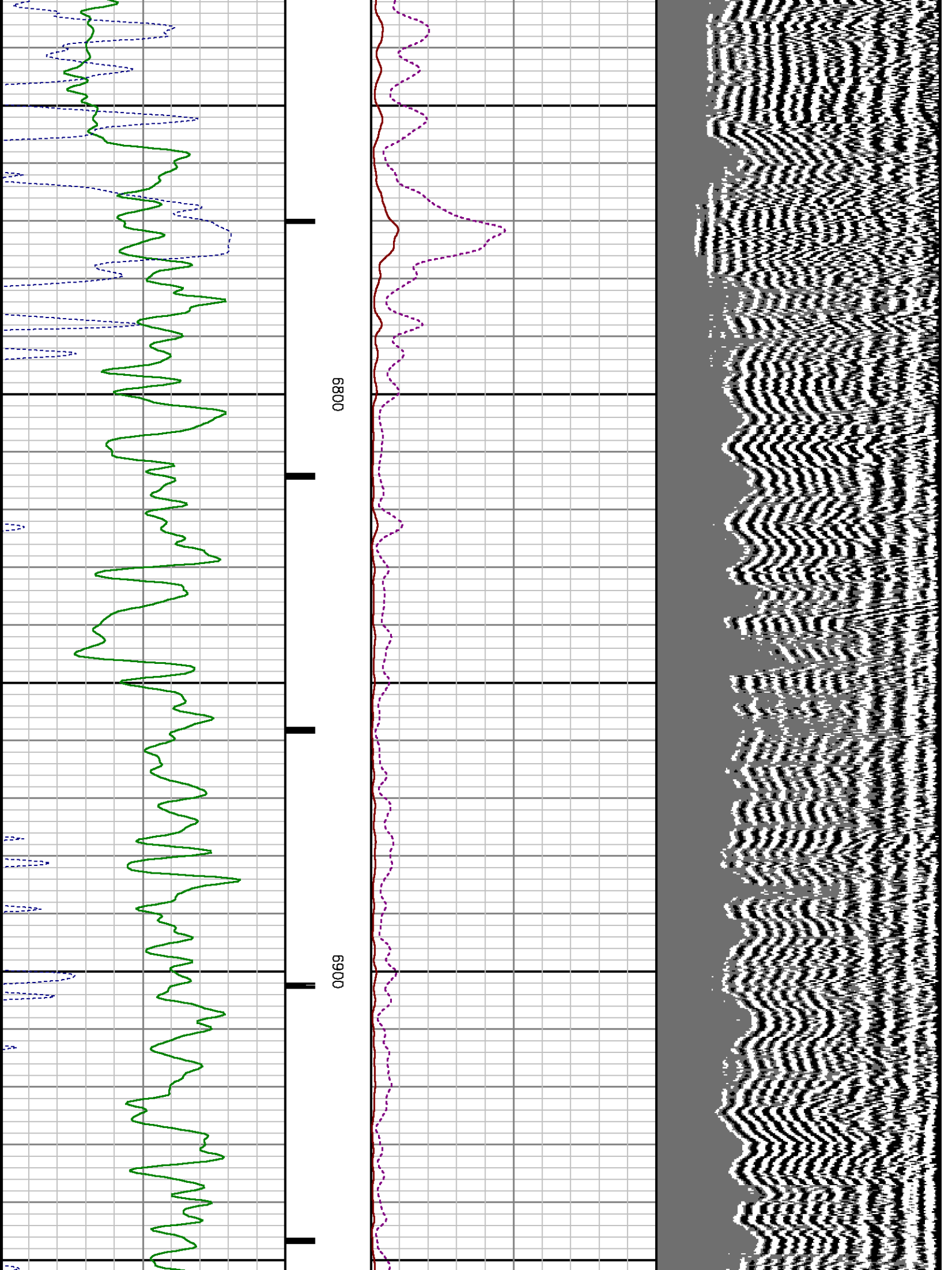


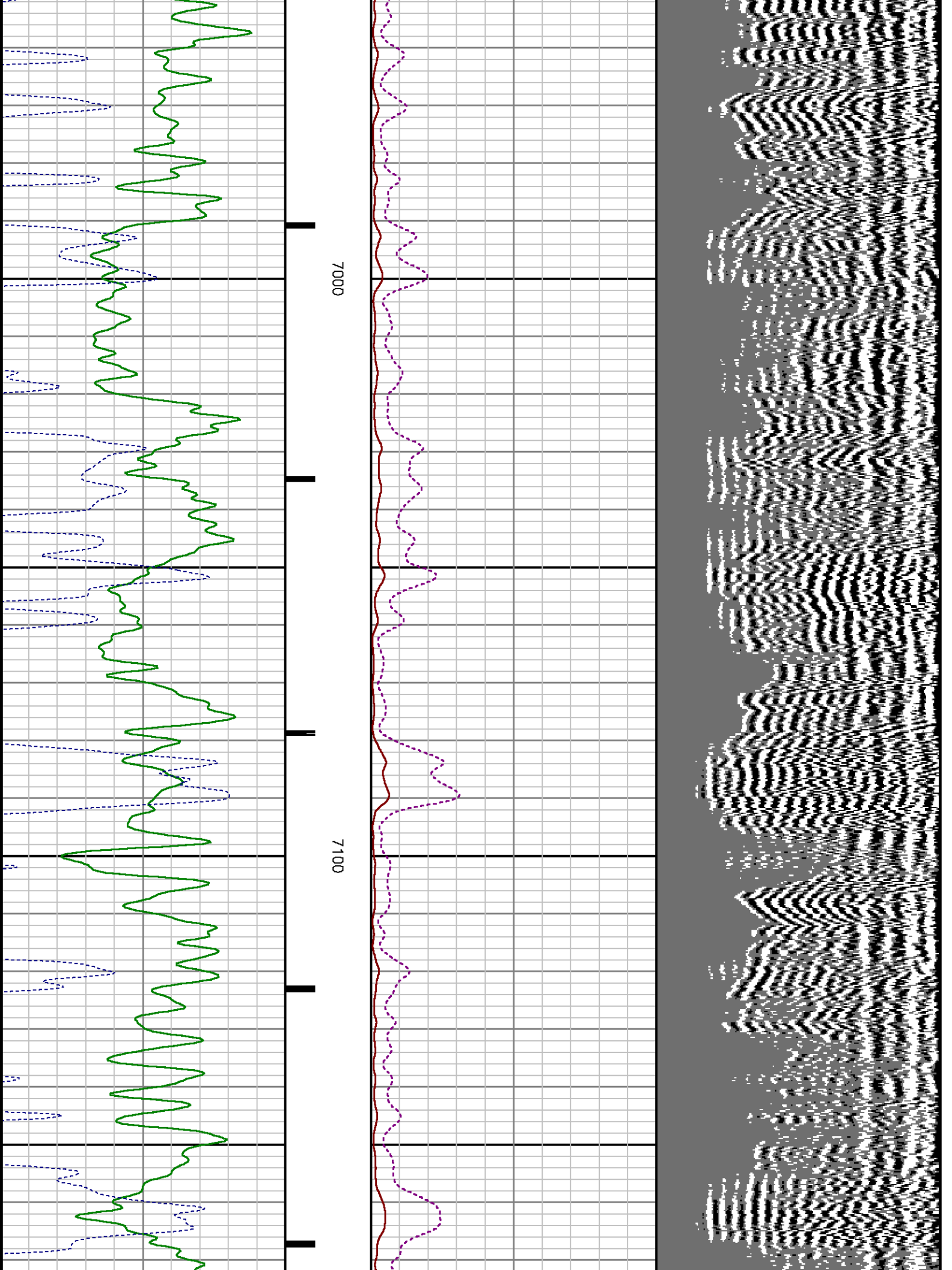


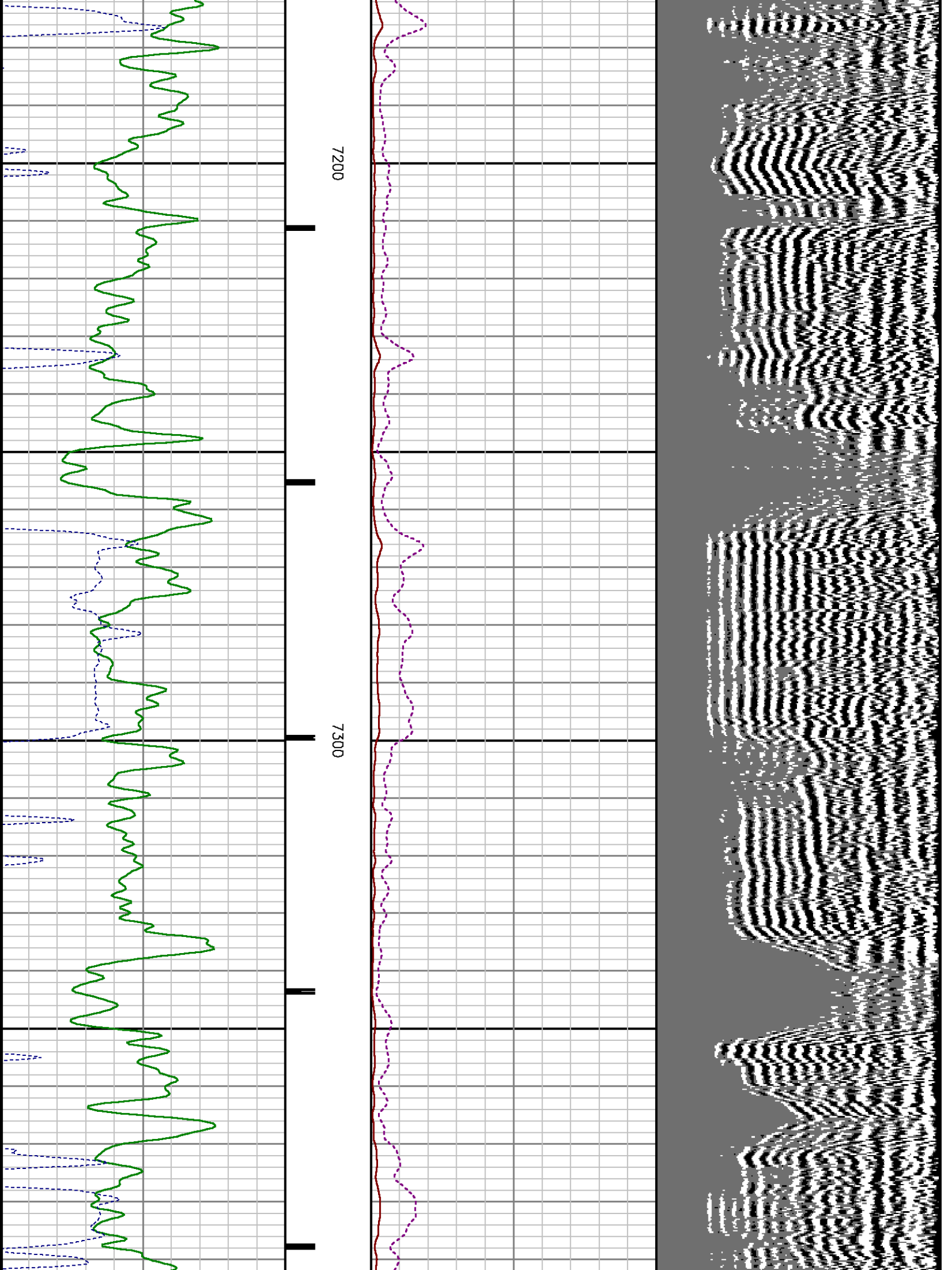


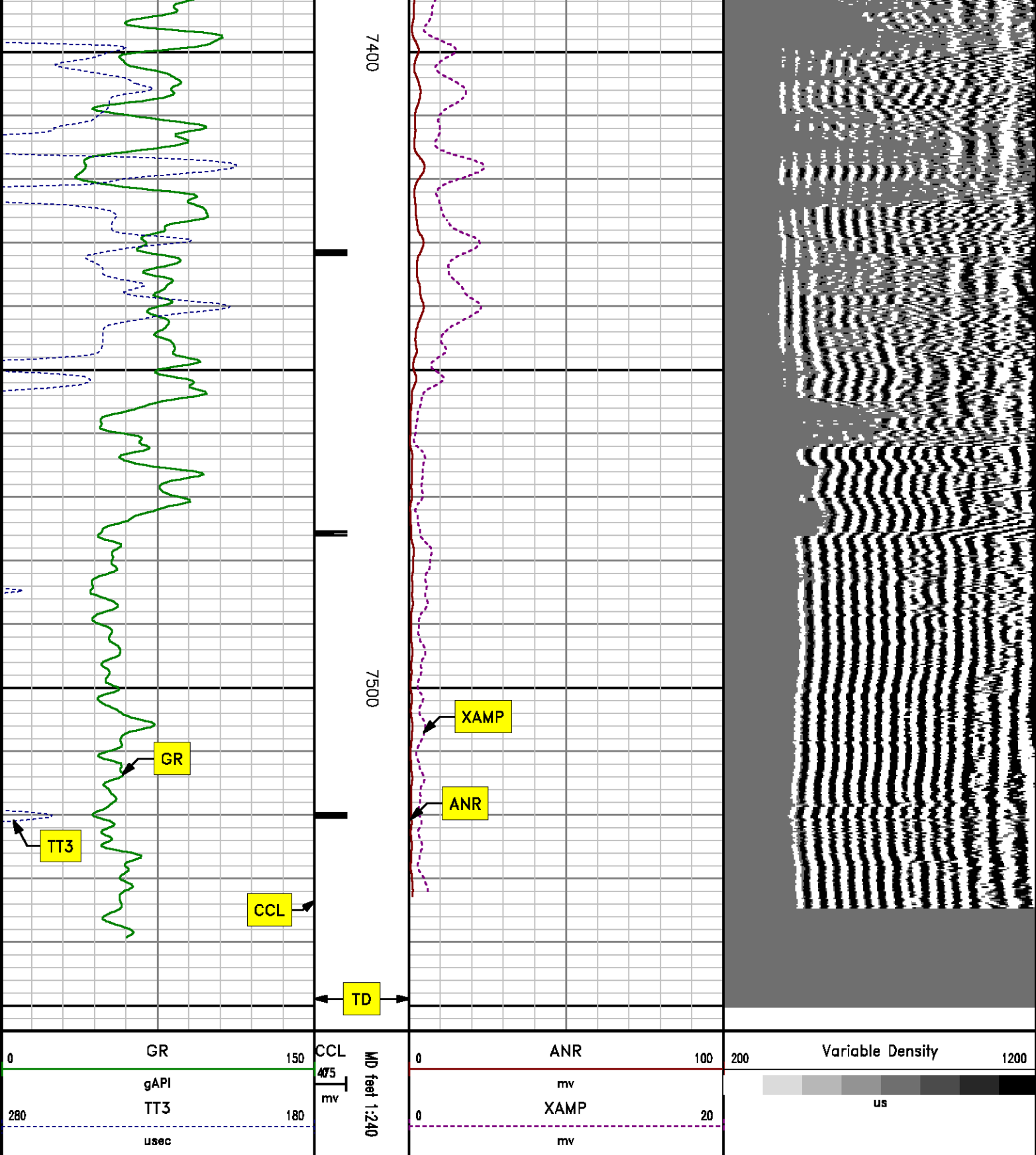












SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	33.156	7550.000
RAL	Amp Gate Start Near	195.000	usec	33.156	7550.000
RAL	Amp Gate Start Radial	195.000	usec	33.156	7550.000
RAL	Amp Gate Width Far	25.000	usec	33.156	7550.000
RAL	Amp Gate Width Near	25.000	usec	33.156	7550.000
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RAL	casing od	4.500	inches	33.156	7550.000
RAL	casing wt	11.600	lbm/ft	33.156	7550.000
RAL	FB Start Far	291.900	usec	33.156	7550.000
RAL	FB Start Near	175.391	usec	33.156	7550.000
RAL	FB Start Radial	175.391	usec	33.156	7550.000
RAL	FB Thresh Far	10.000	mv	33.156	7550.000
RAL	FB Thresh Near	4.000	mv	33.156	7550.000
RAL	FB Thresh Radial	4.000	mv	33.156	7550.000
RAL	Fluid Travel Time	200.000	usec/ft	33.156	7550.000

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 512-2

File Name : d:\well\data\wpx\wpx energy pa 512-2\cb1512\main.xtf

Mode : PlotMgr 5.4.504

Interval : 0.00 - 7554.00 feet UP

Created : 3/10/2014 8:41:45 AM

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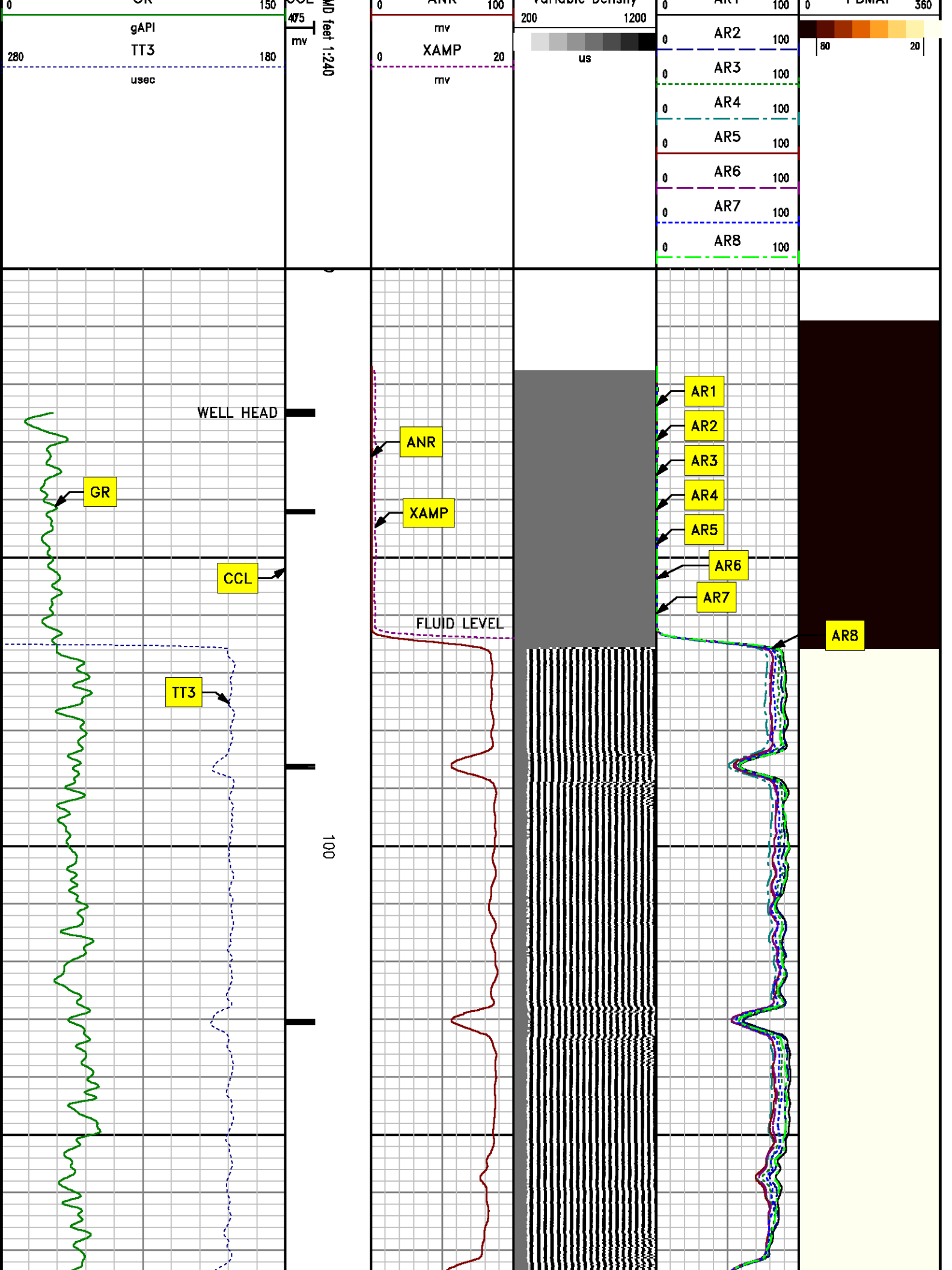
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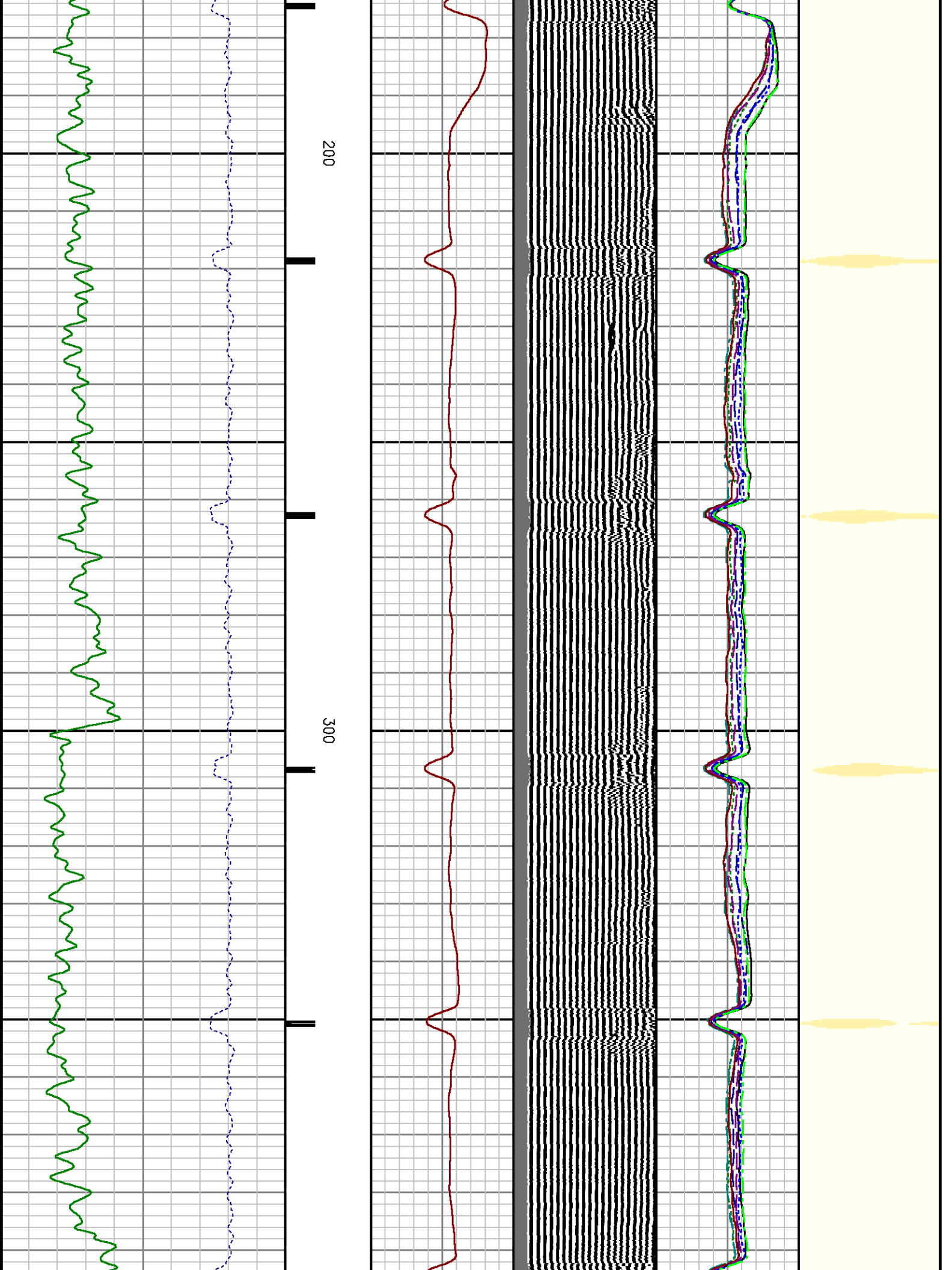
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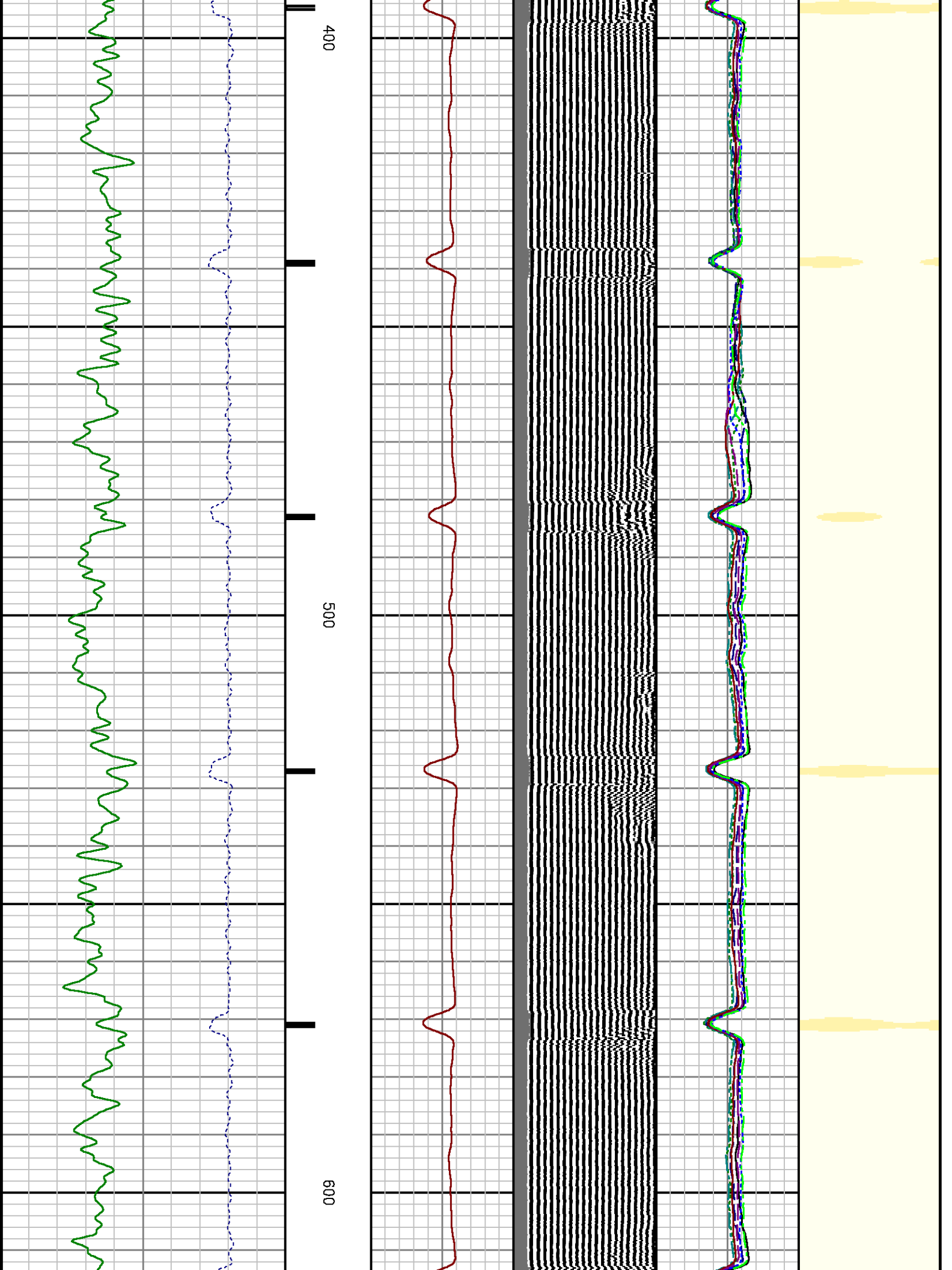
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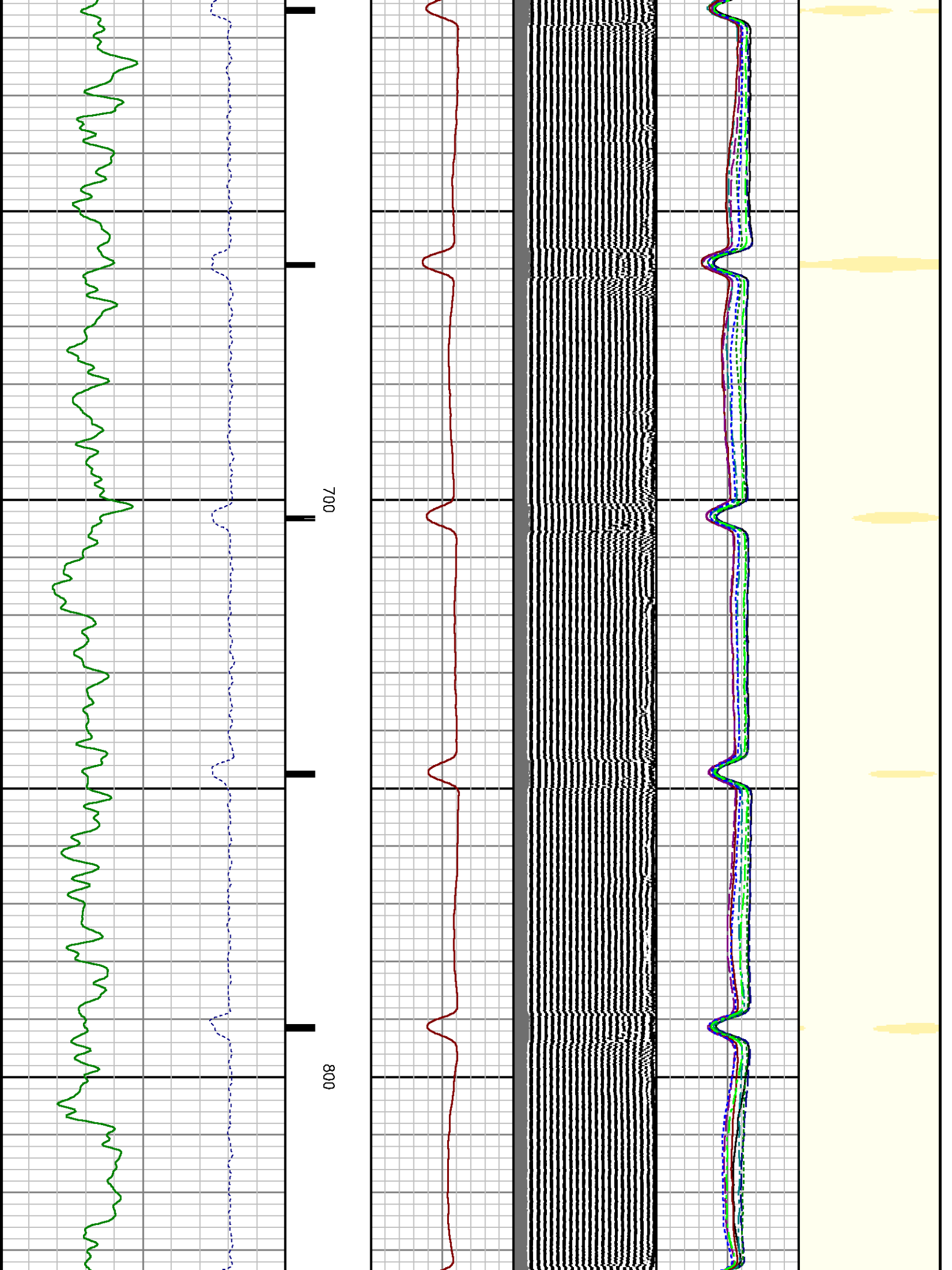
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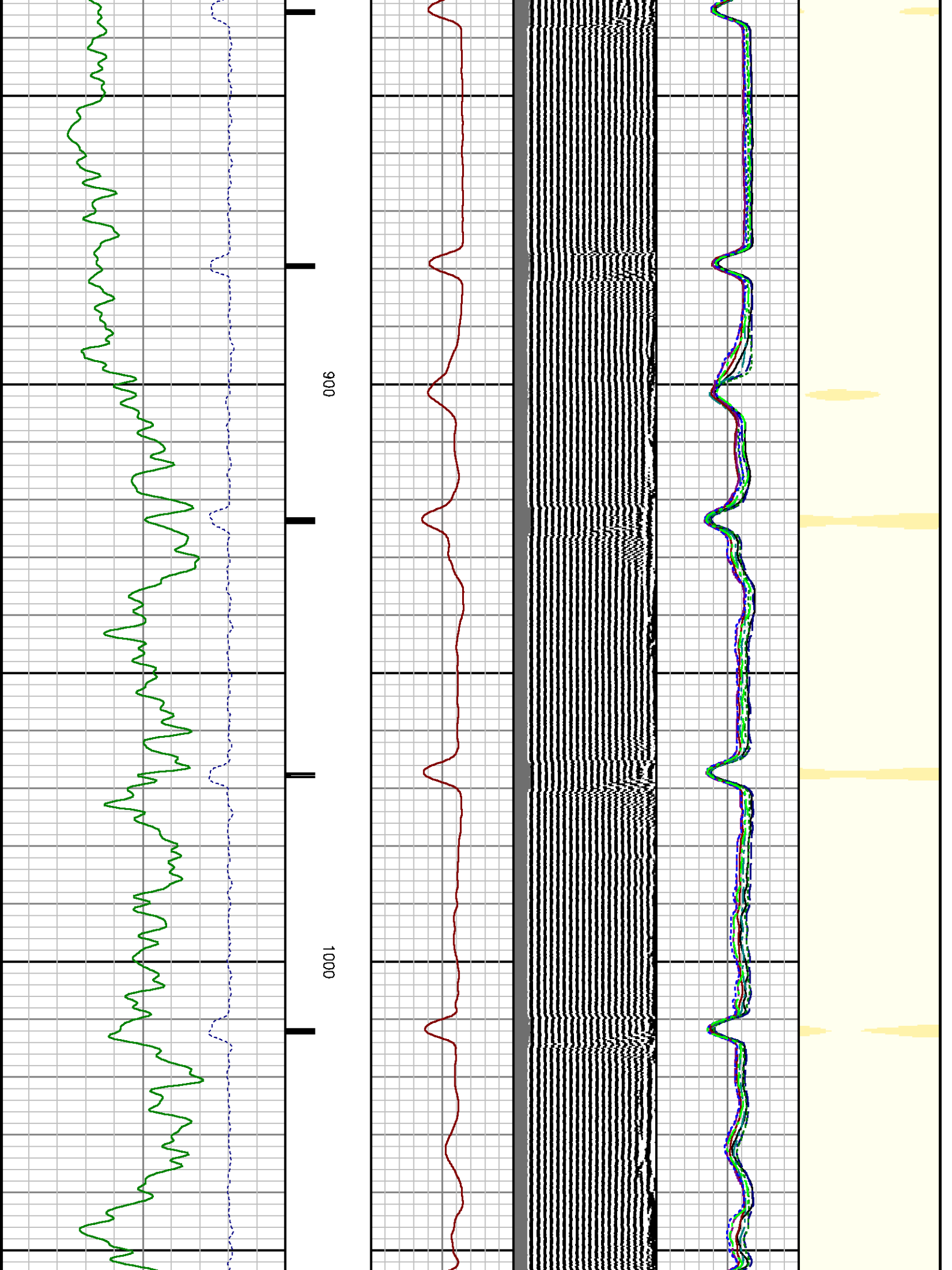
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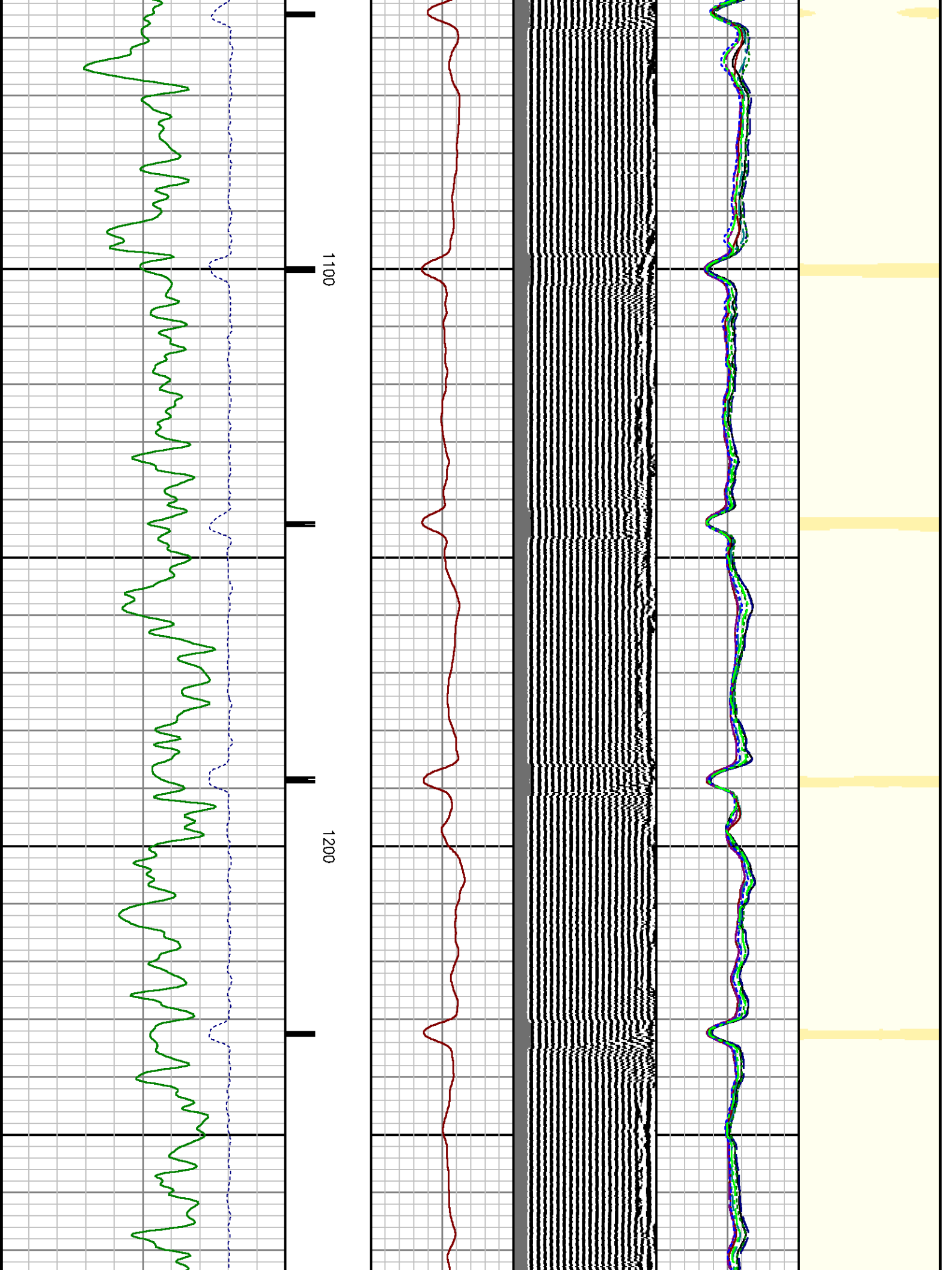


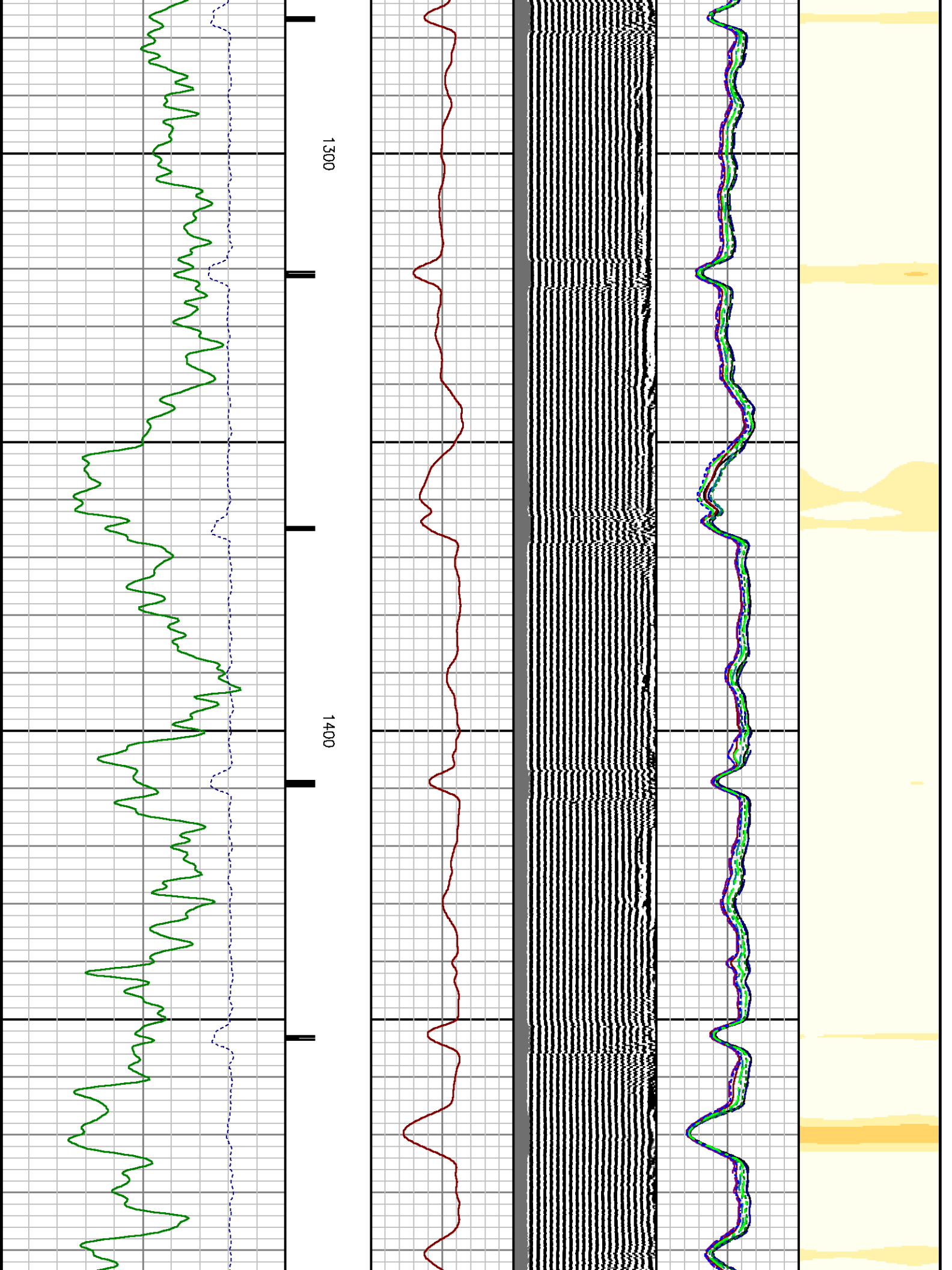


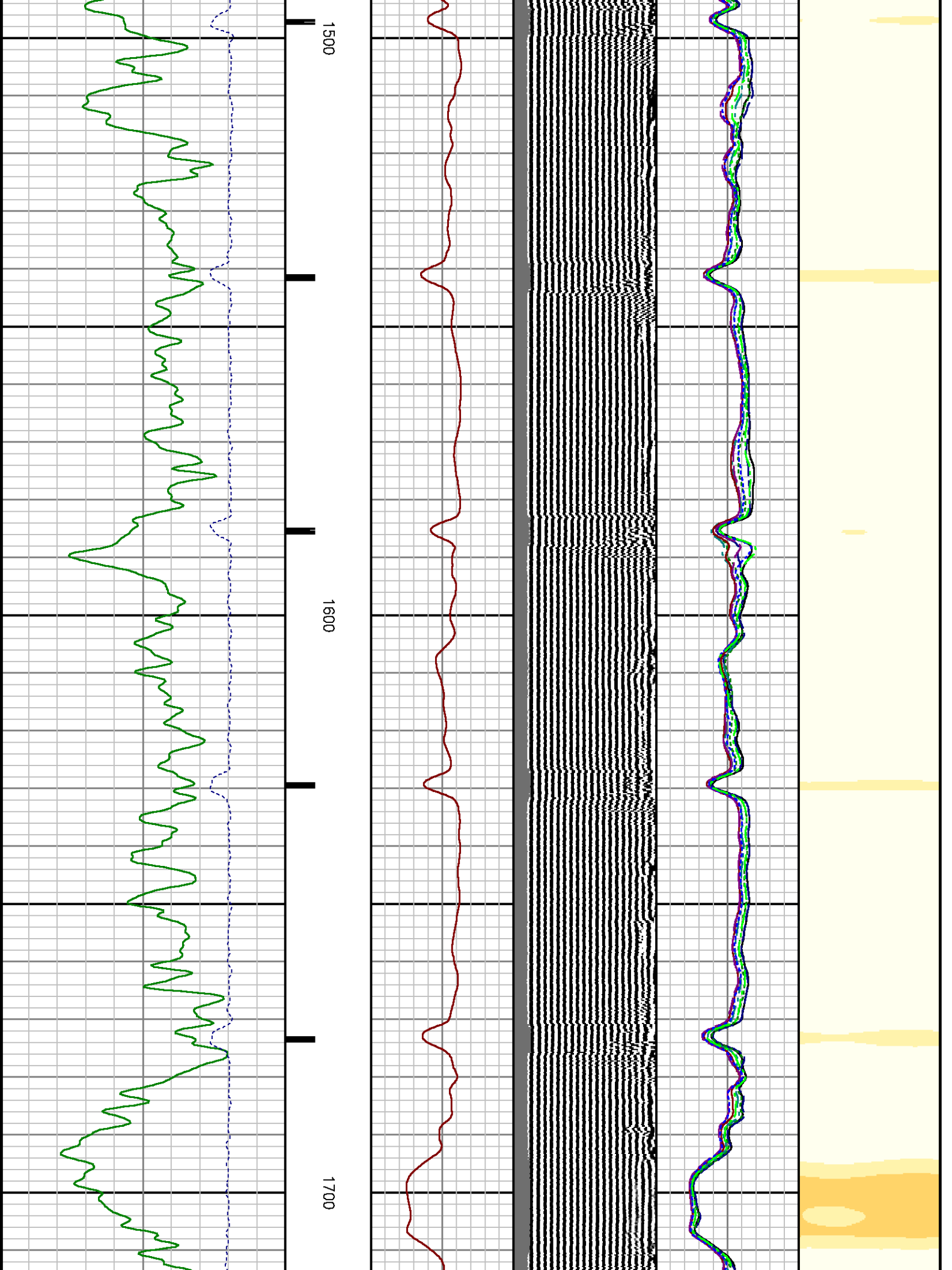


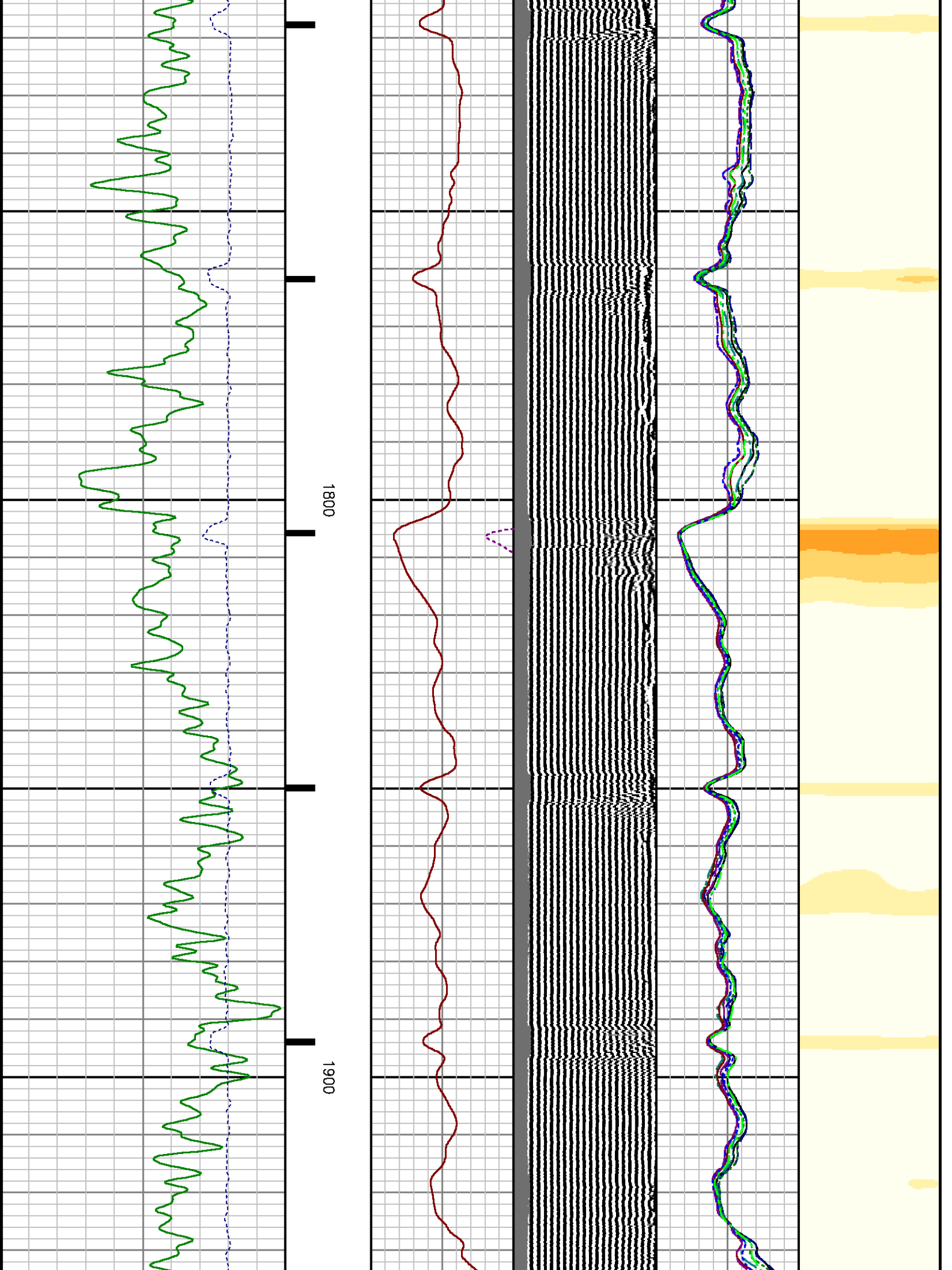


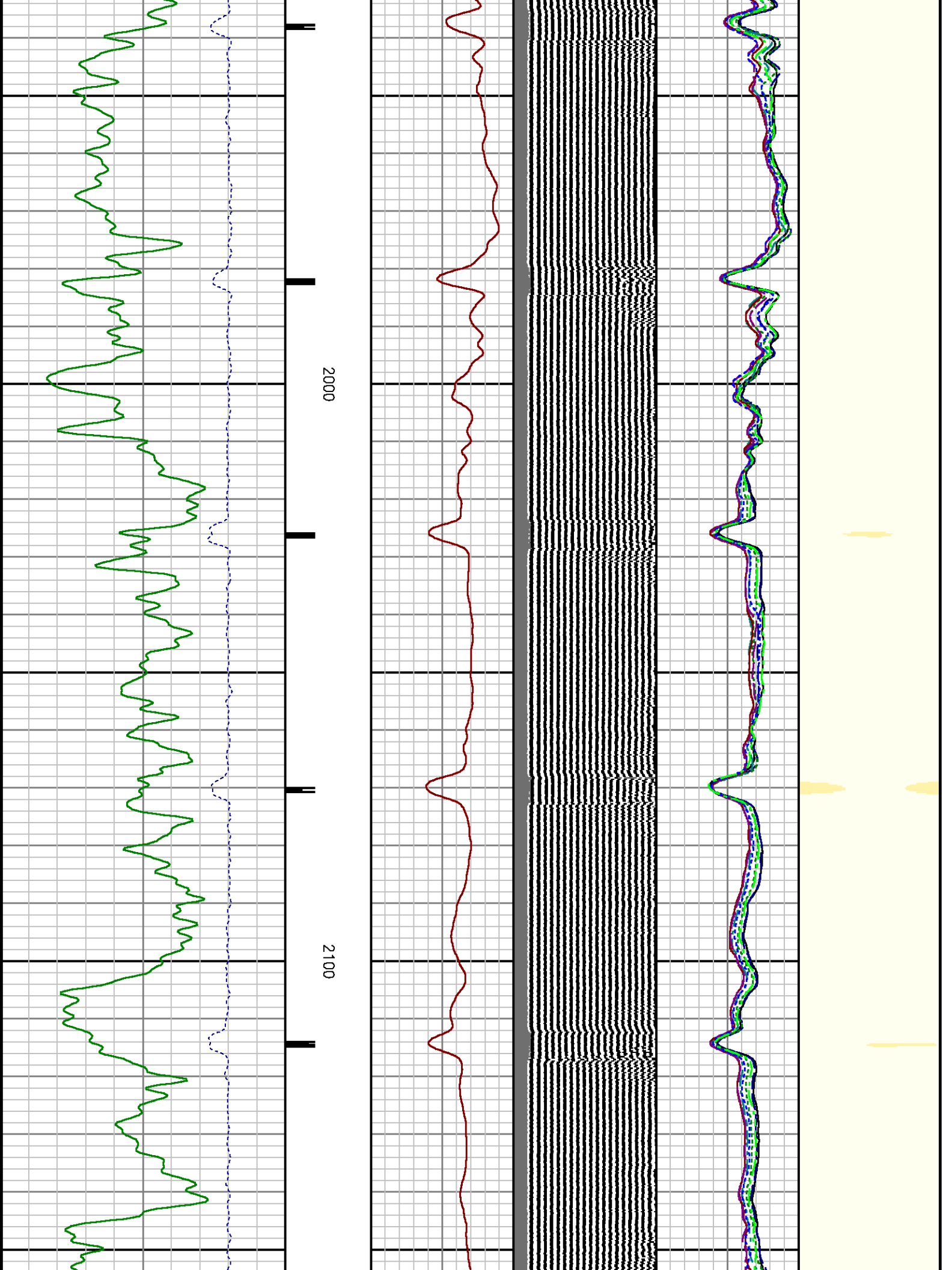


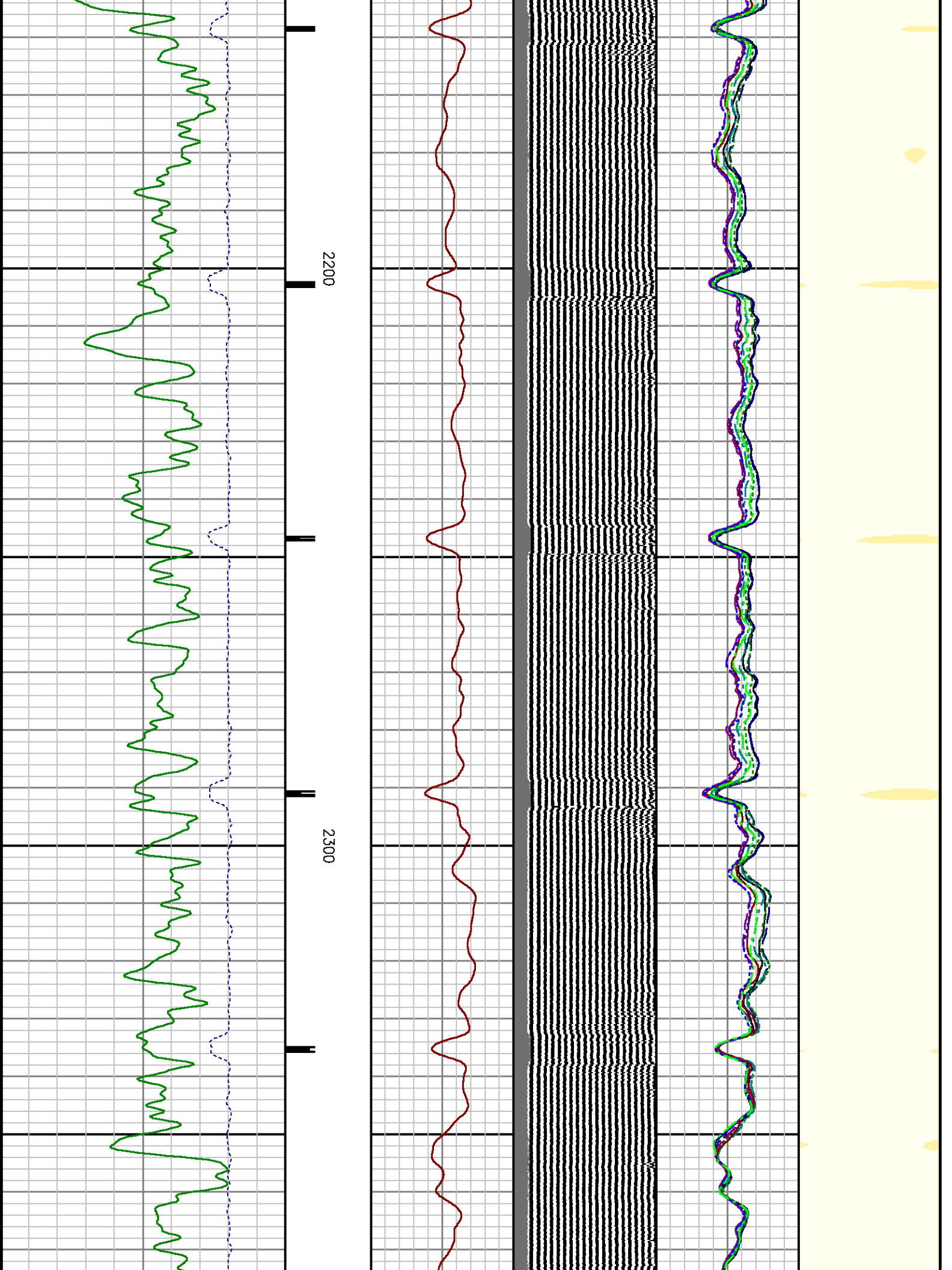


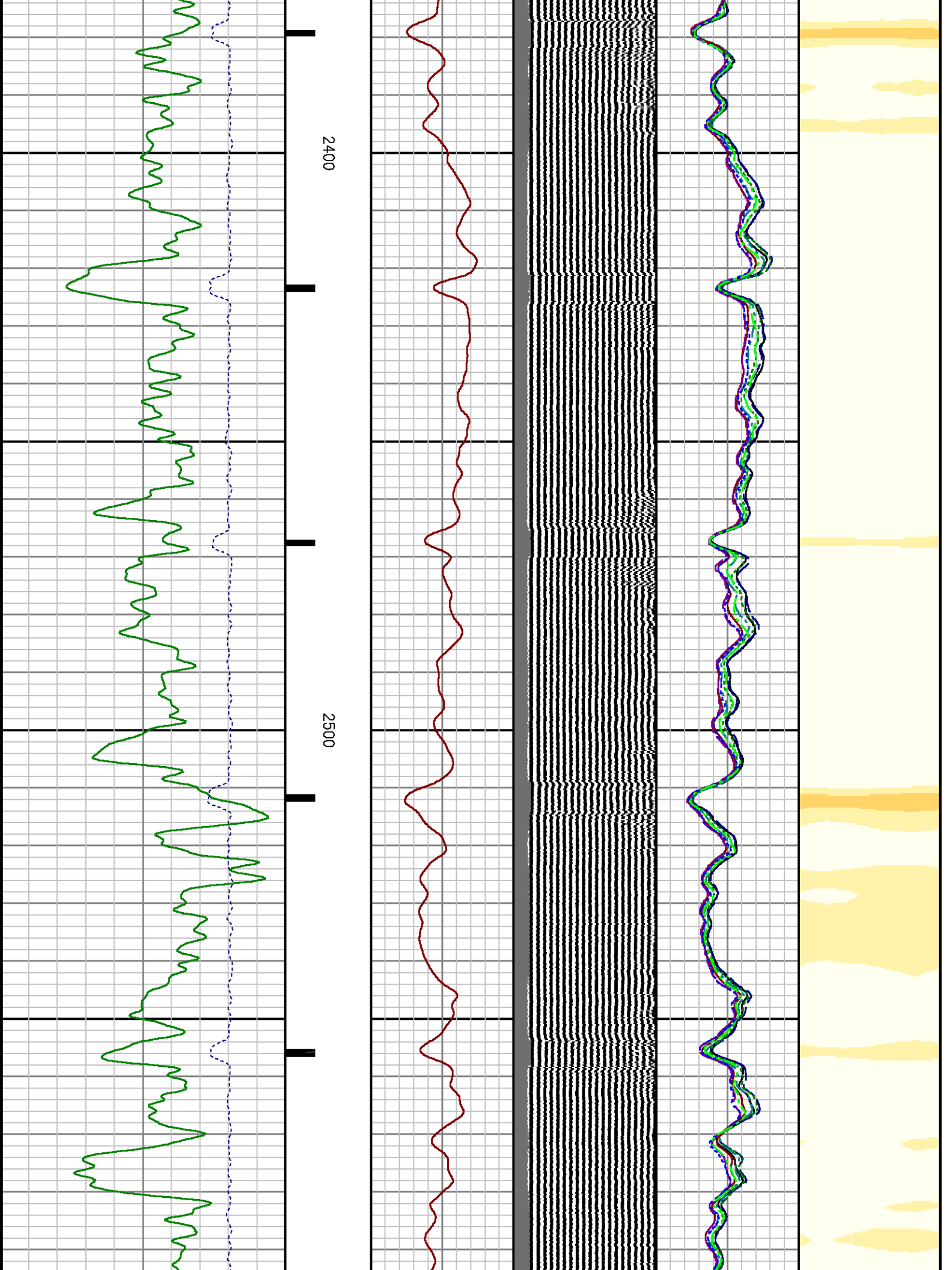


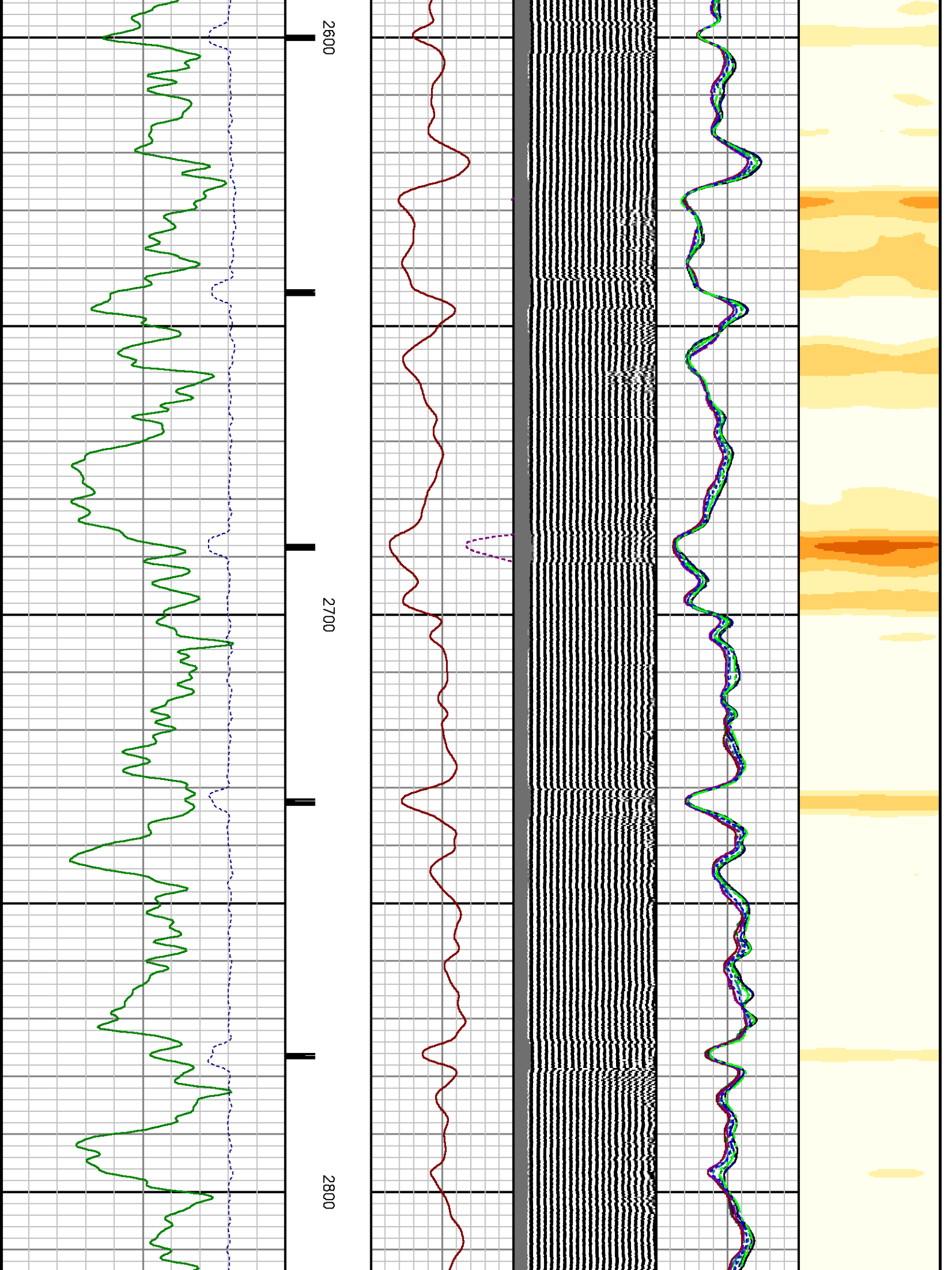


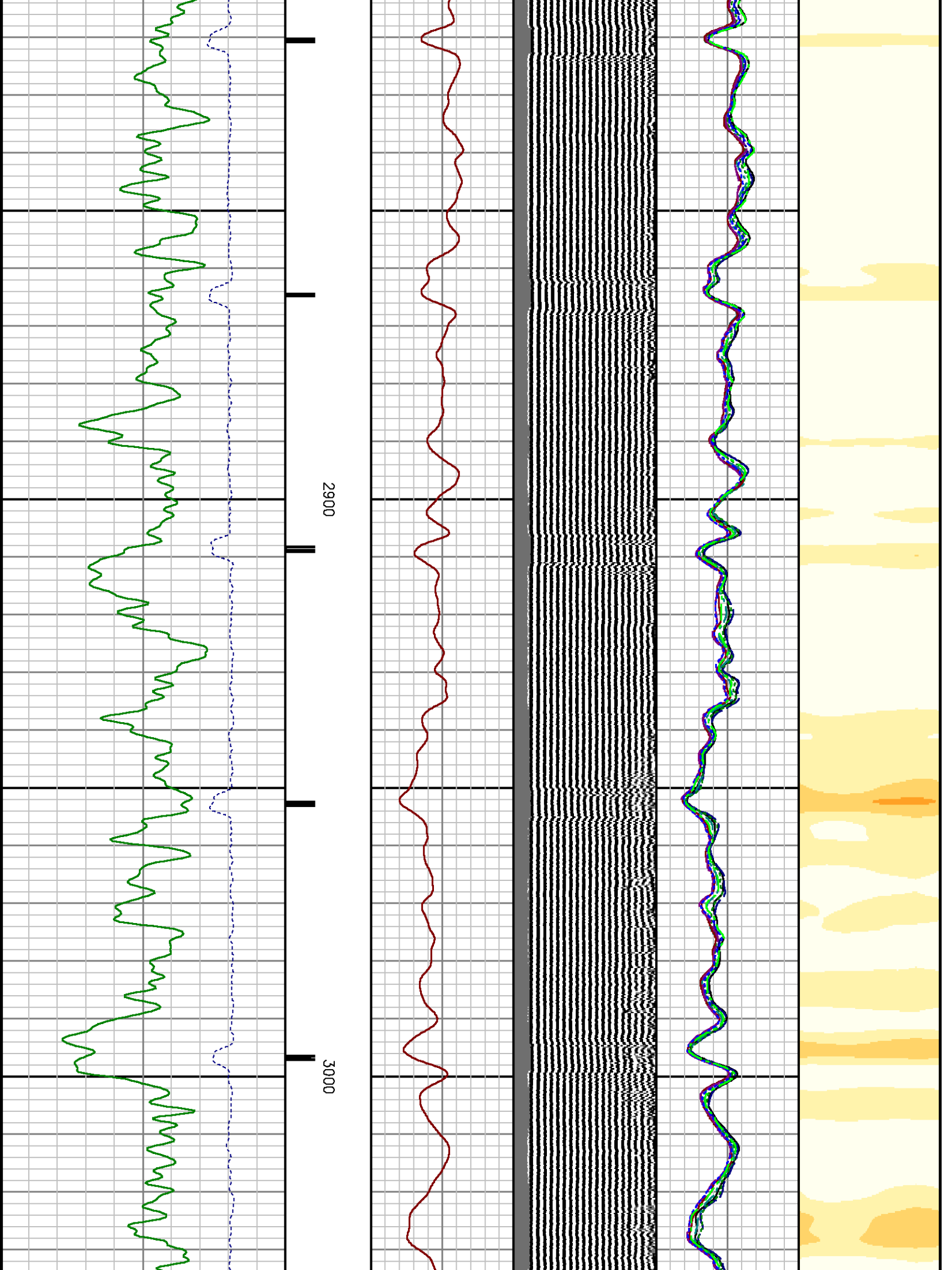


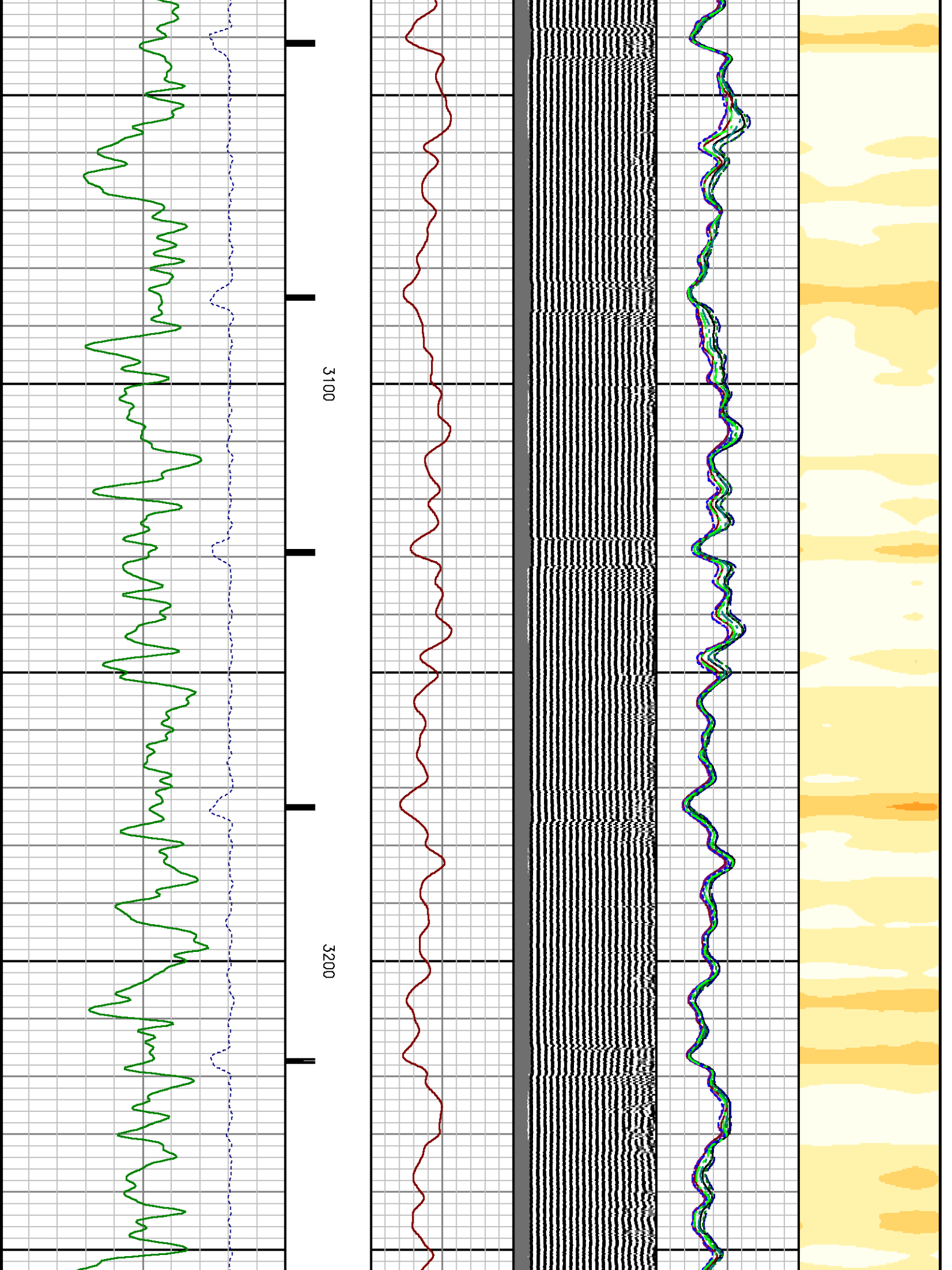


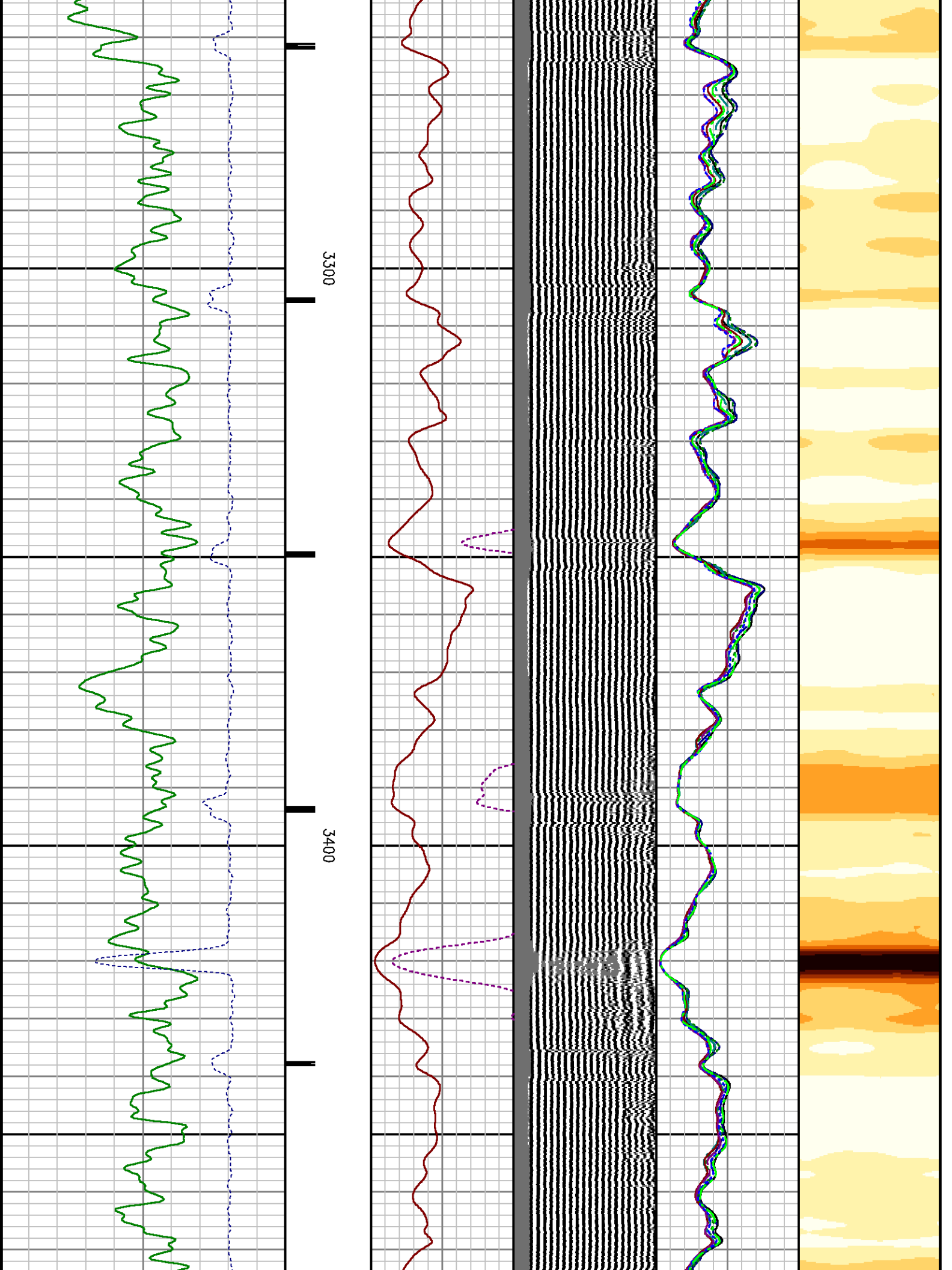


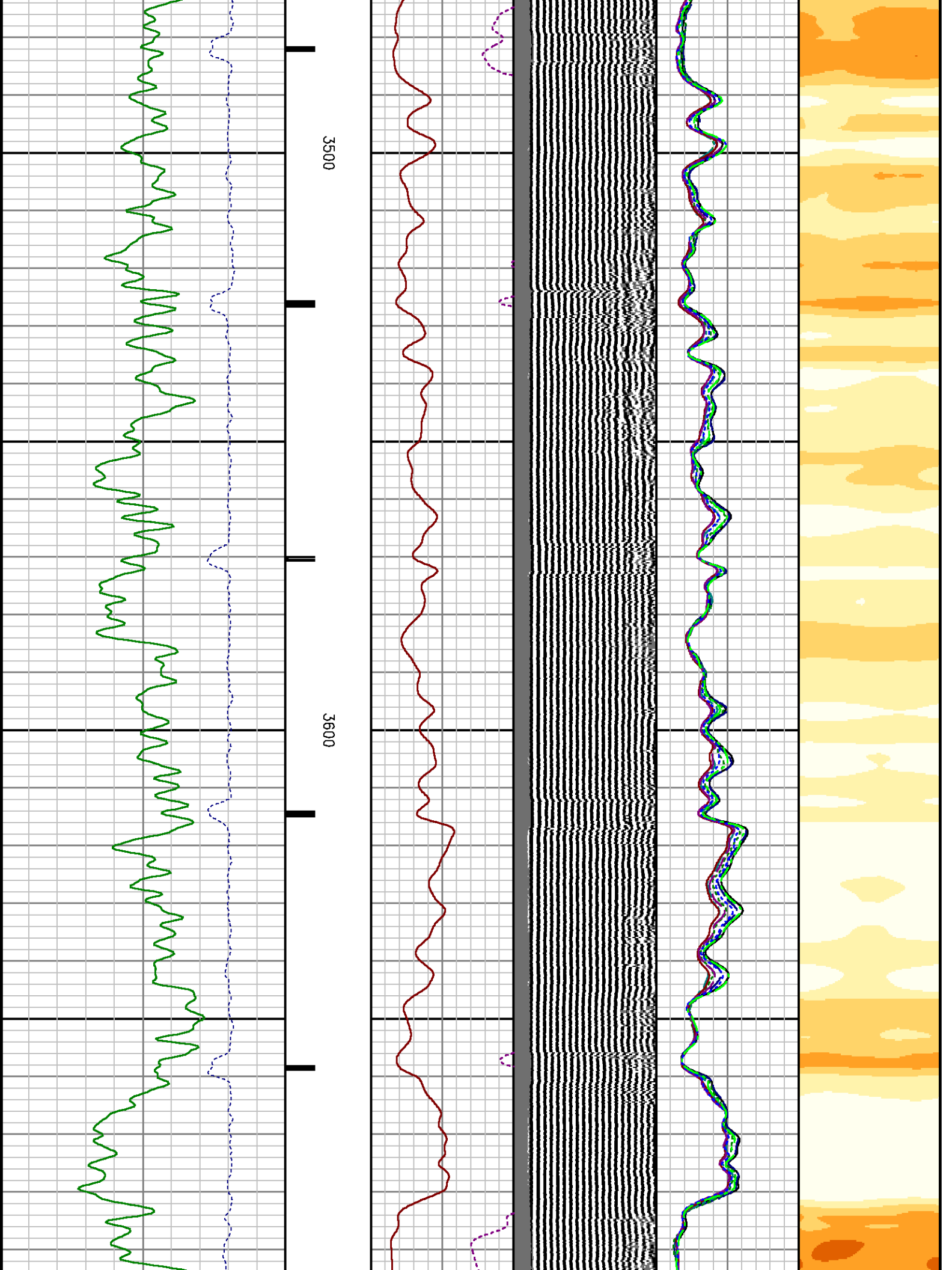


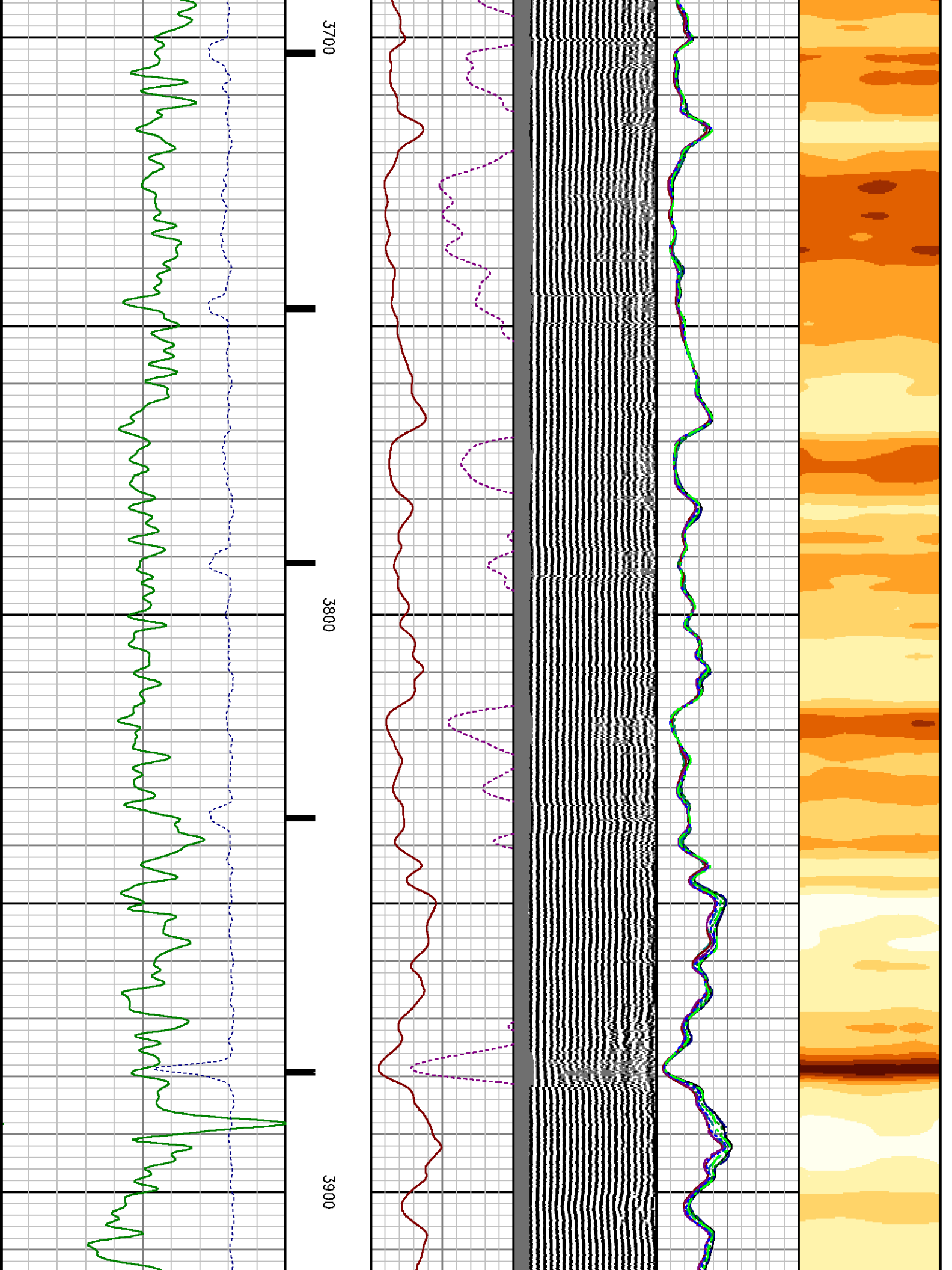


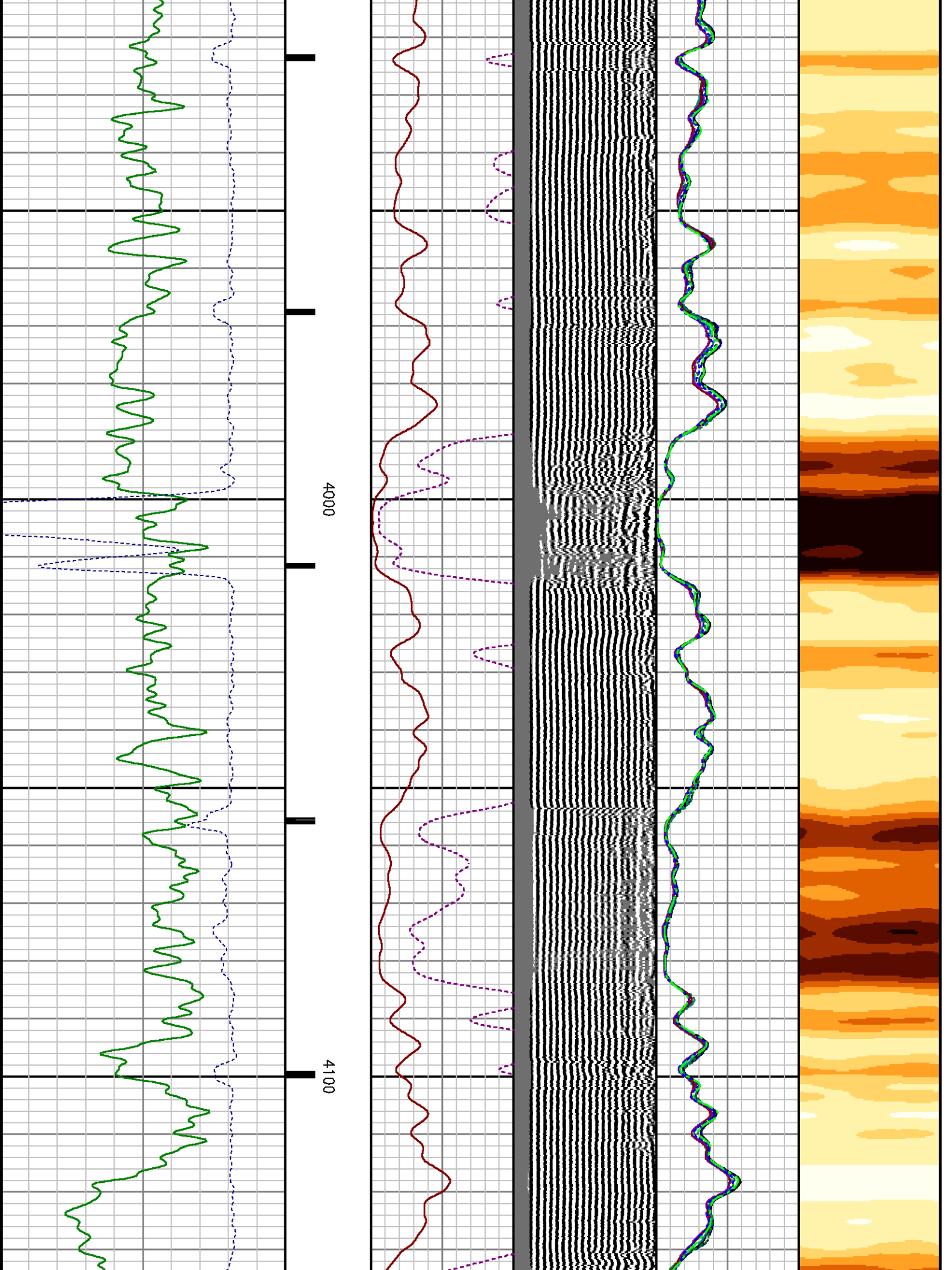


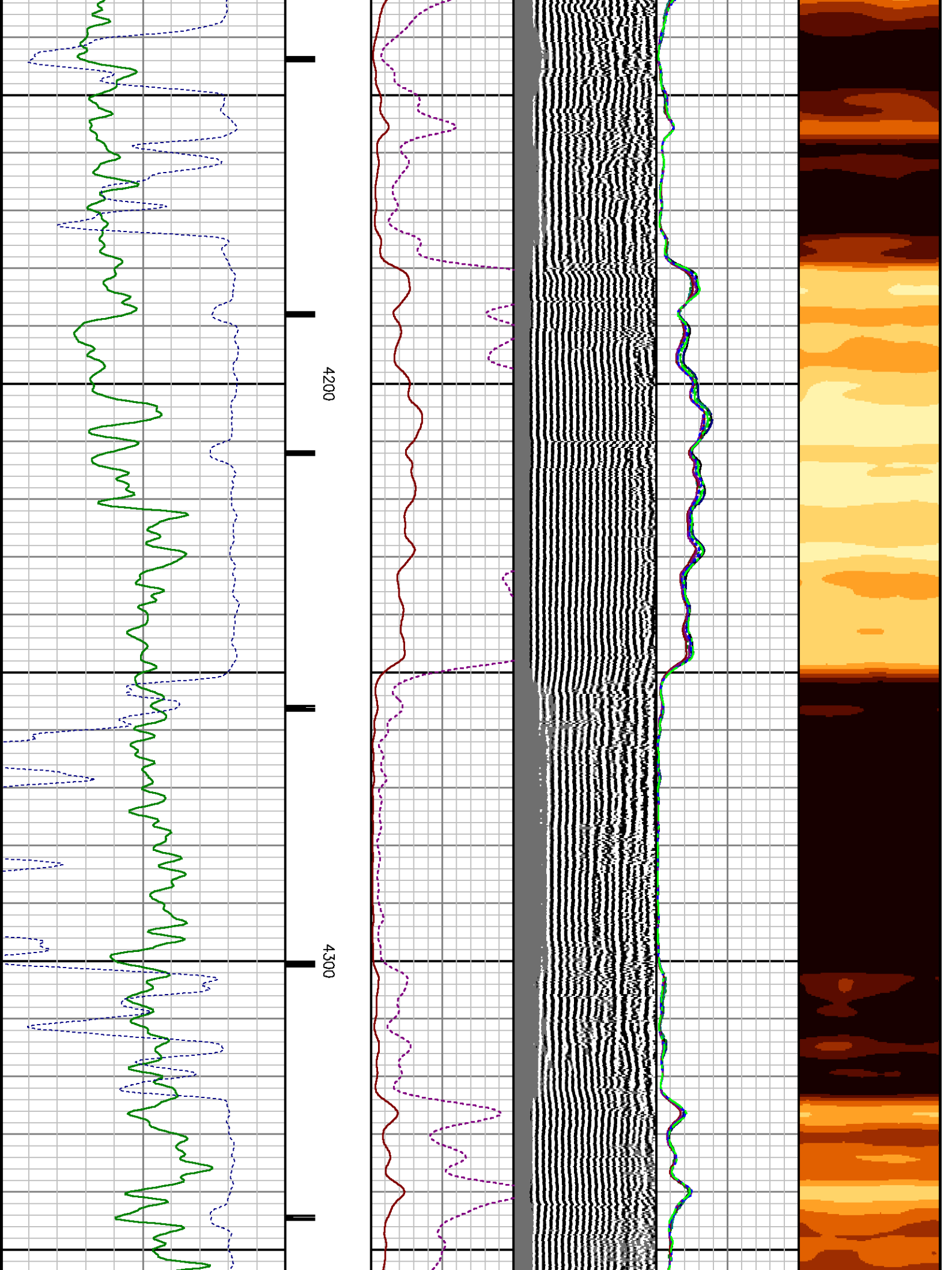


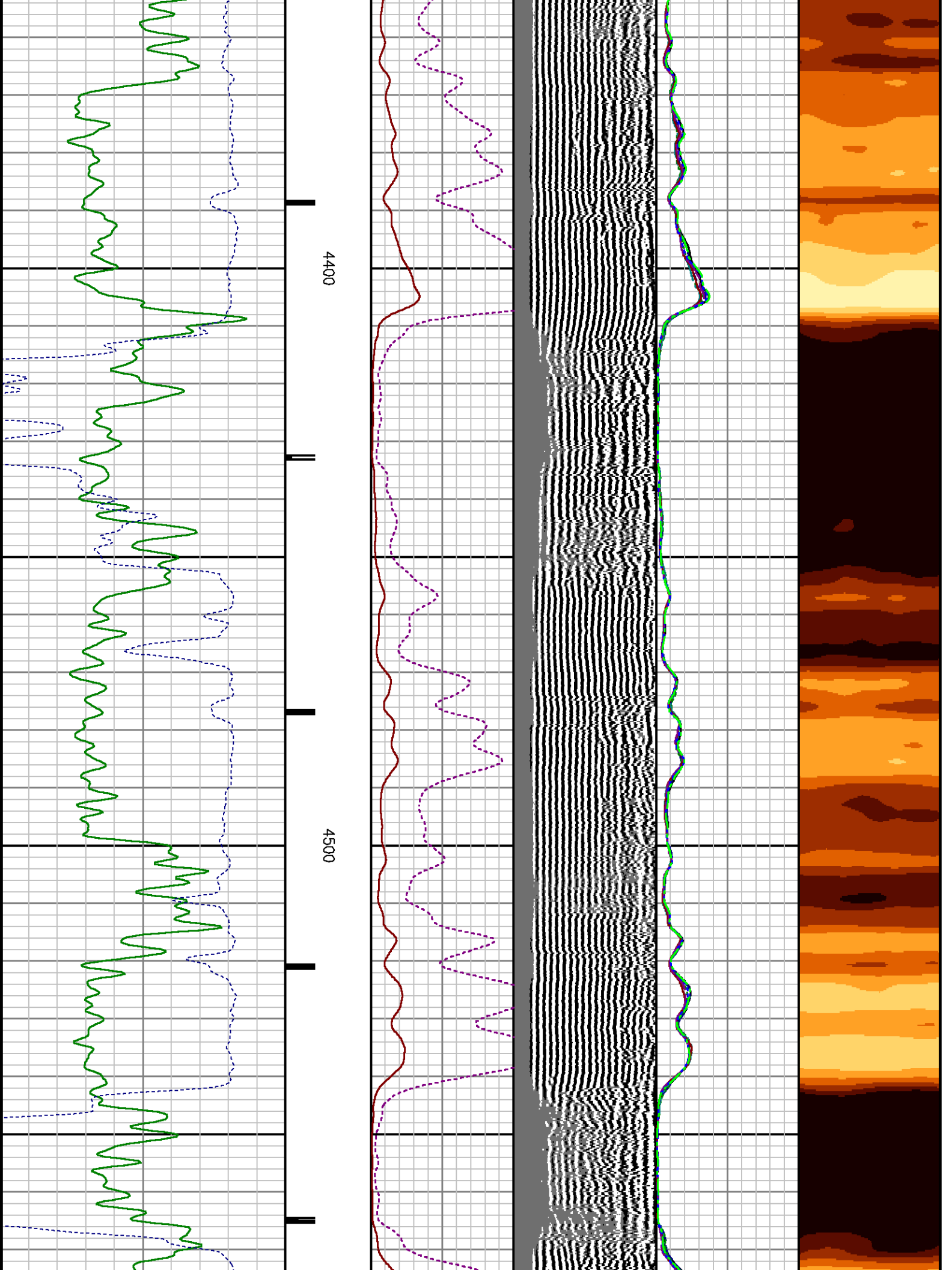


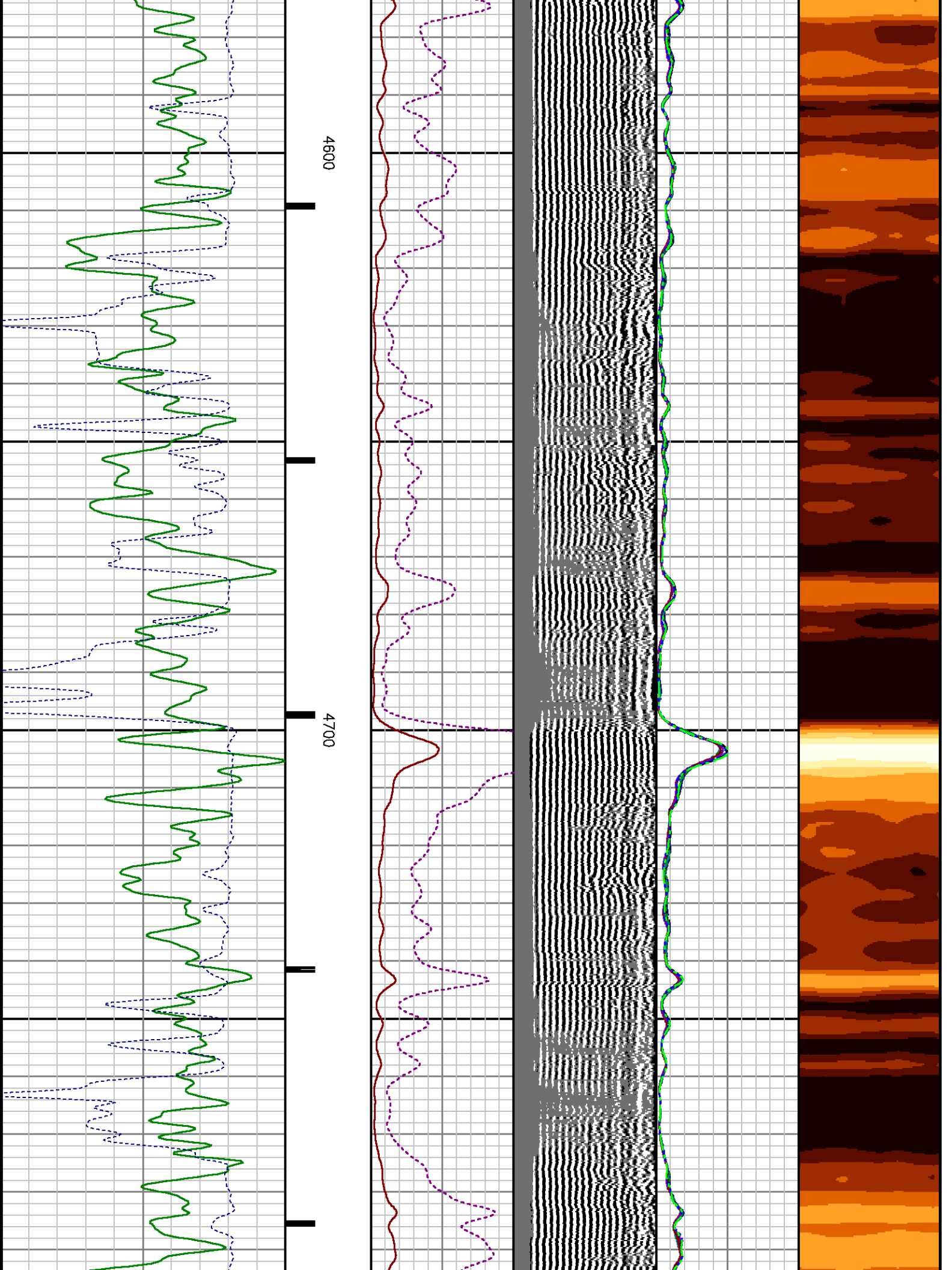


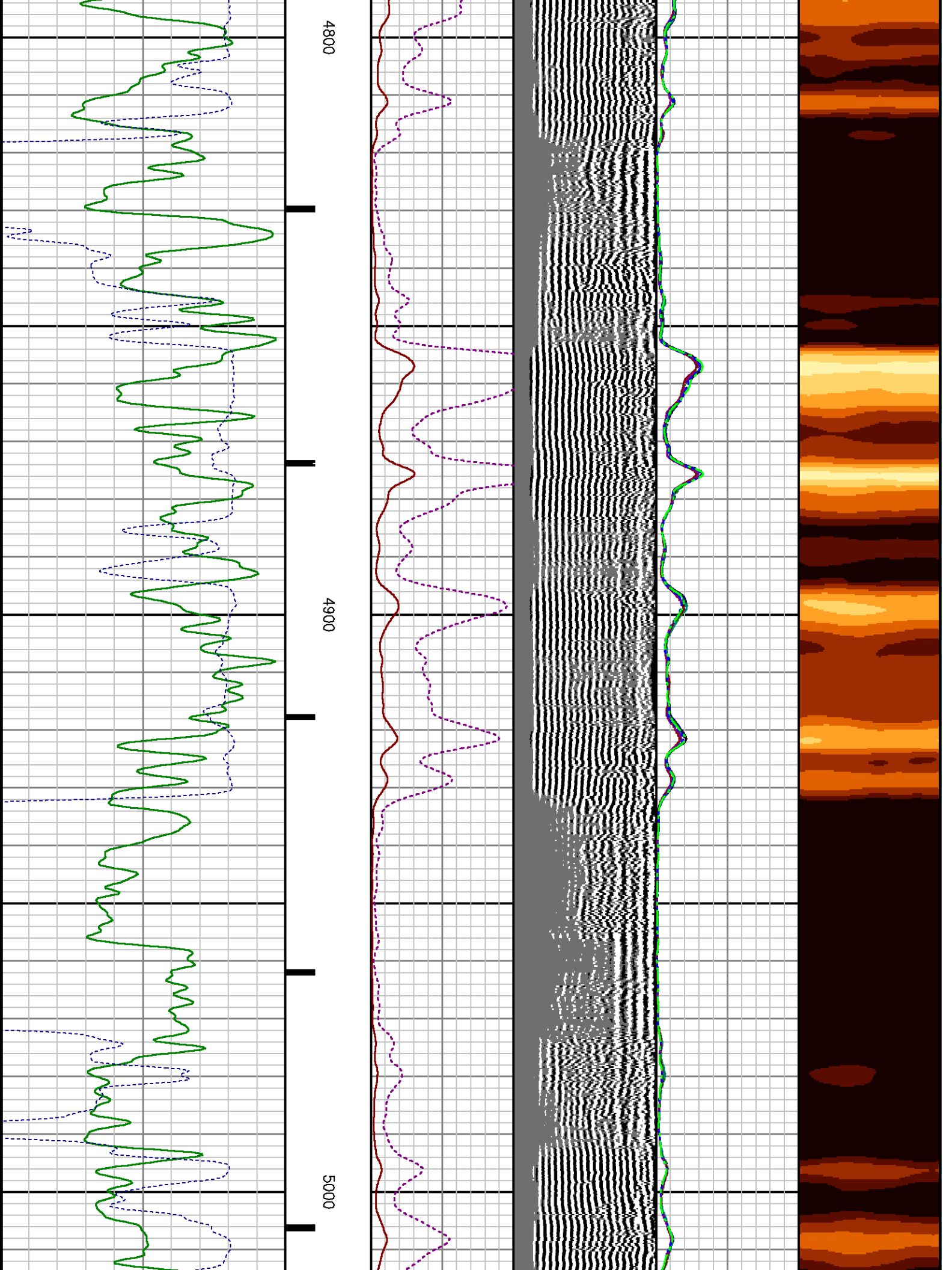


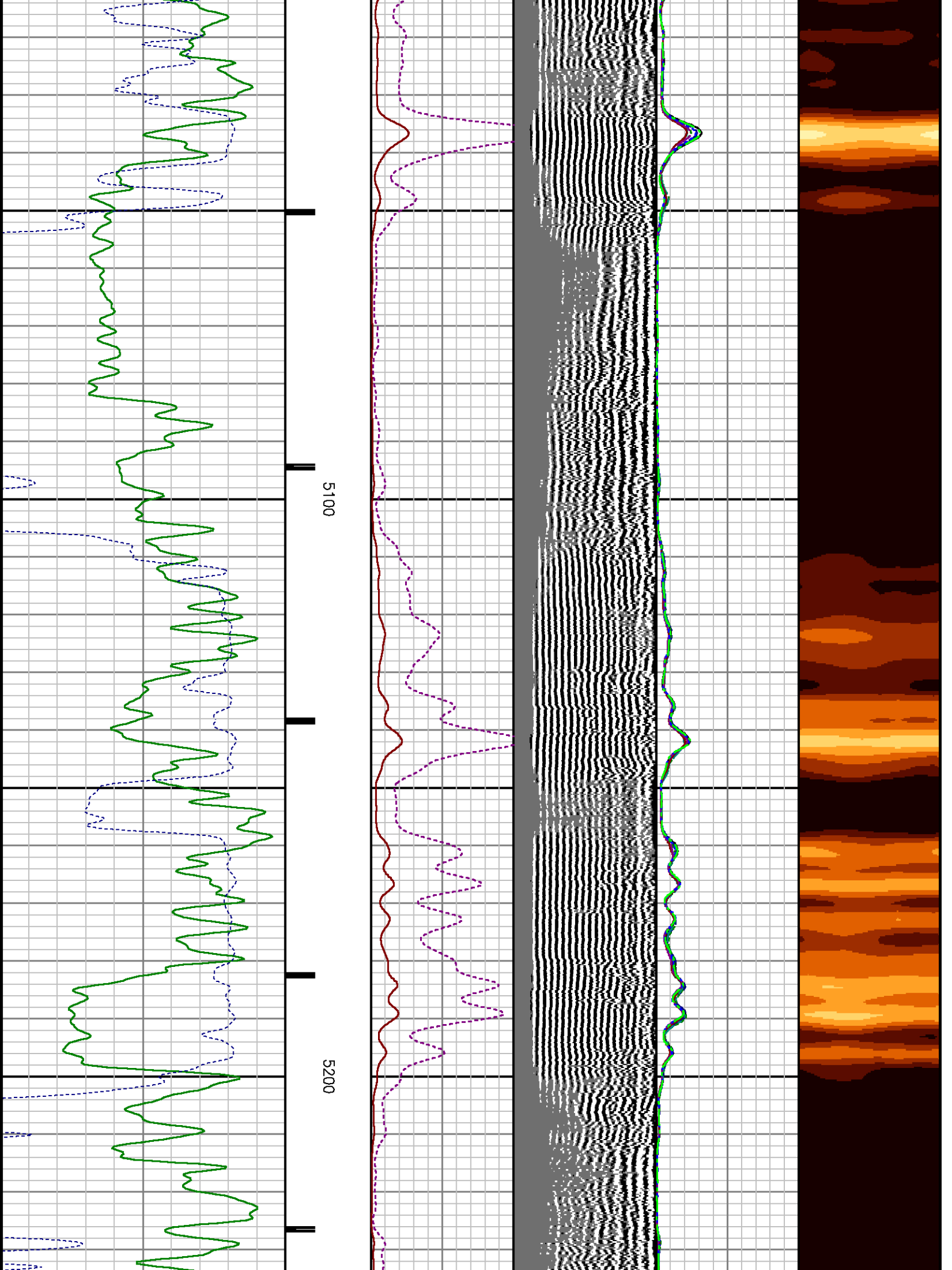


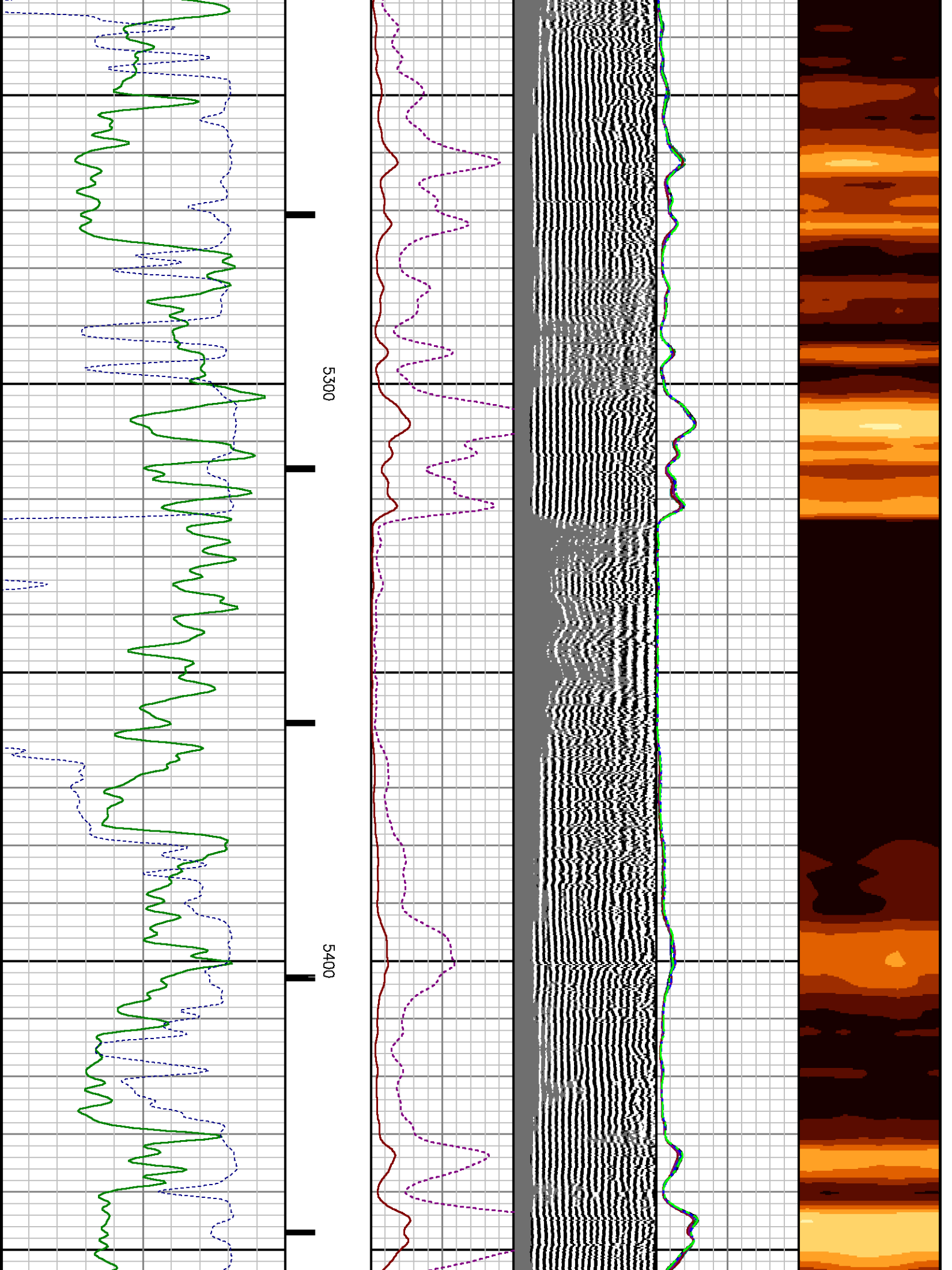


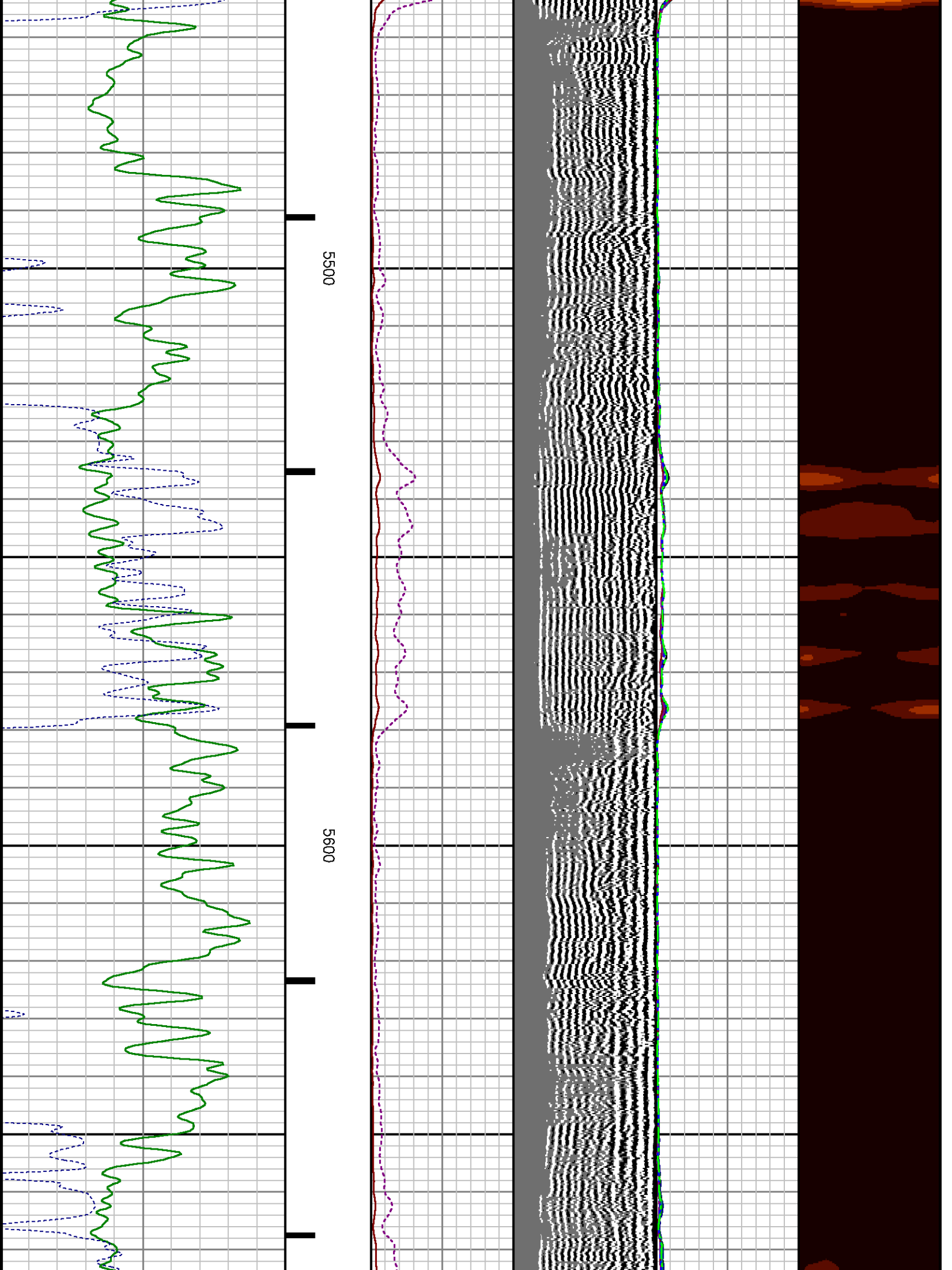


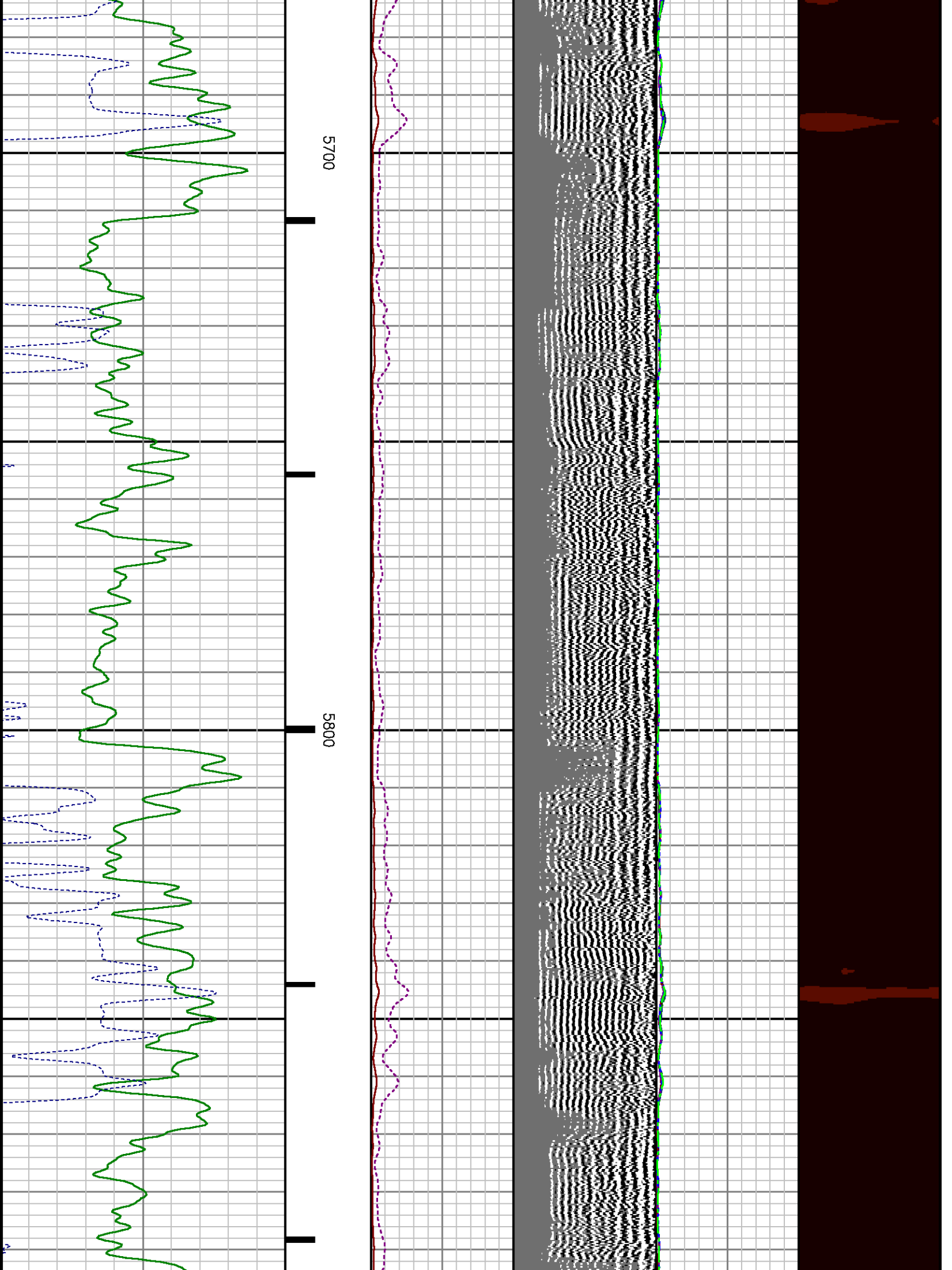


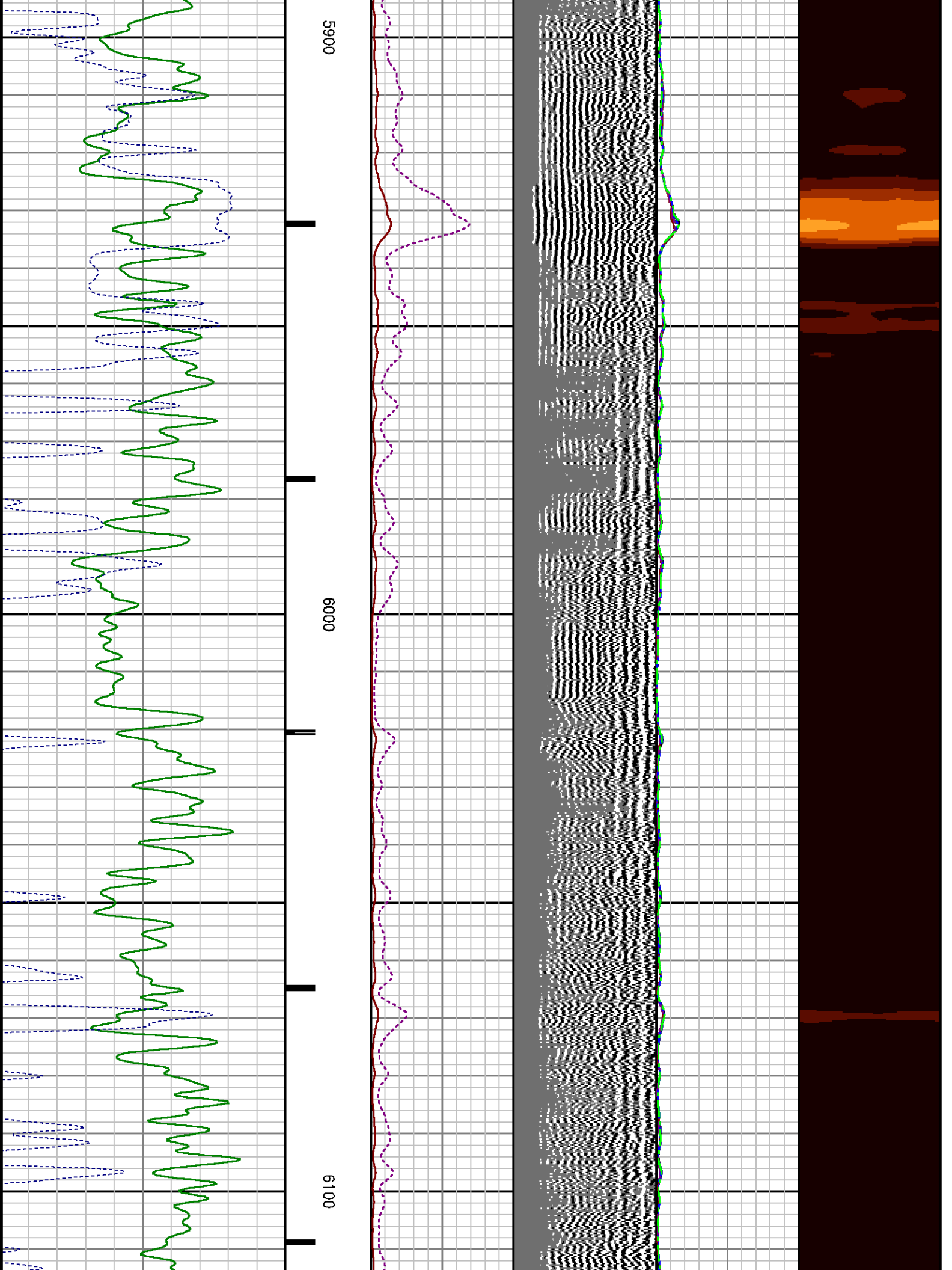


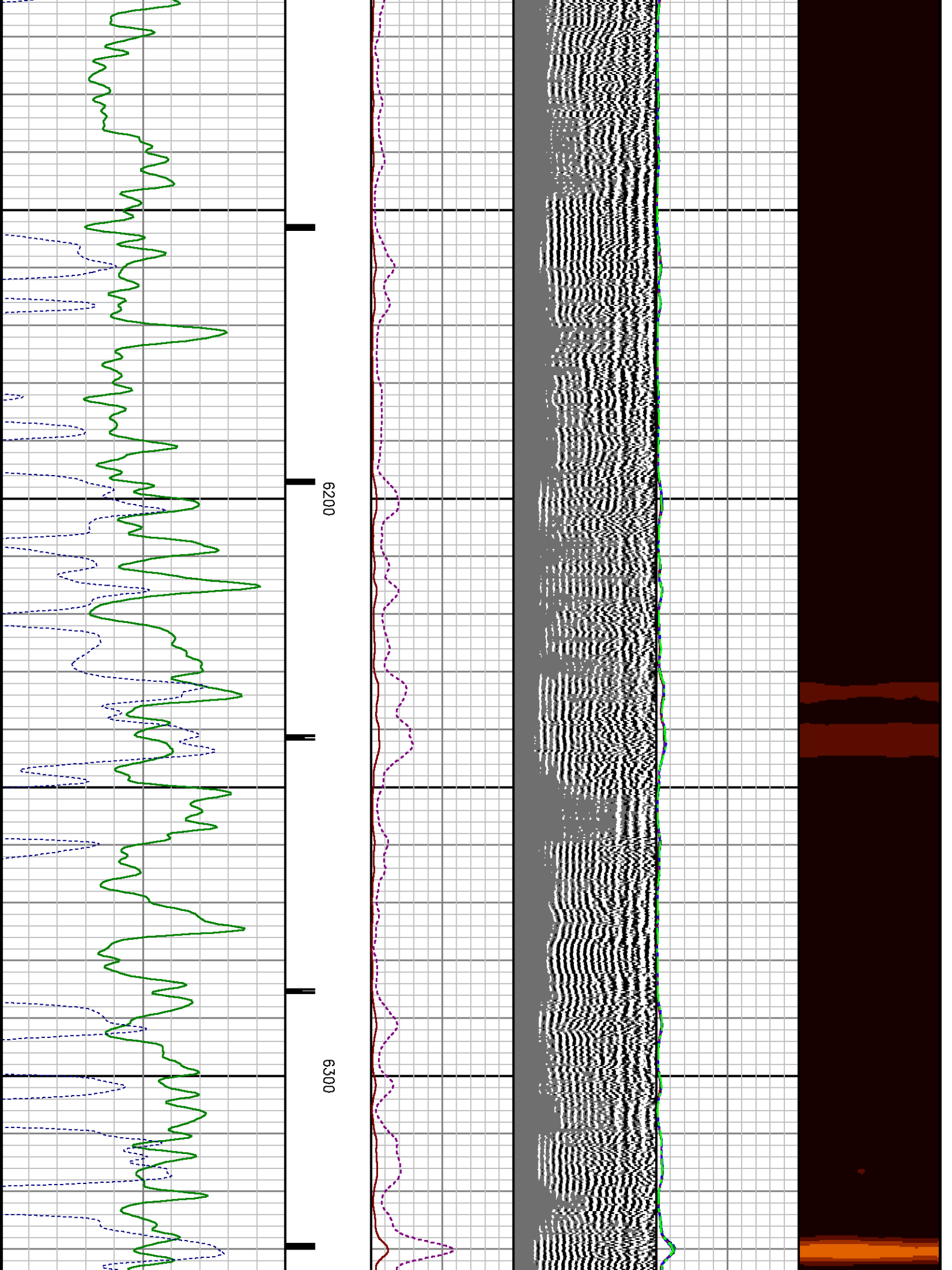


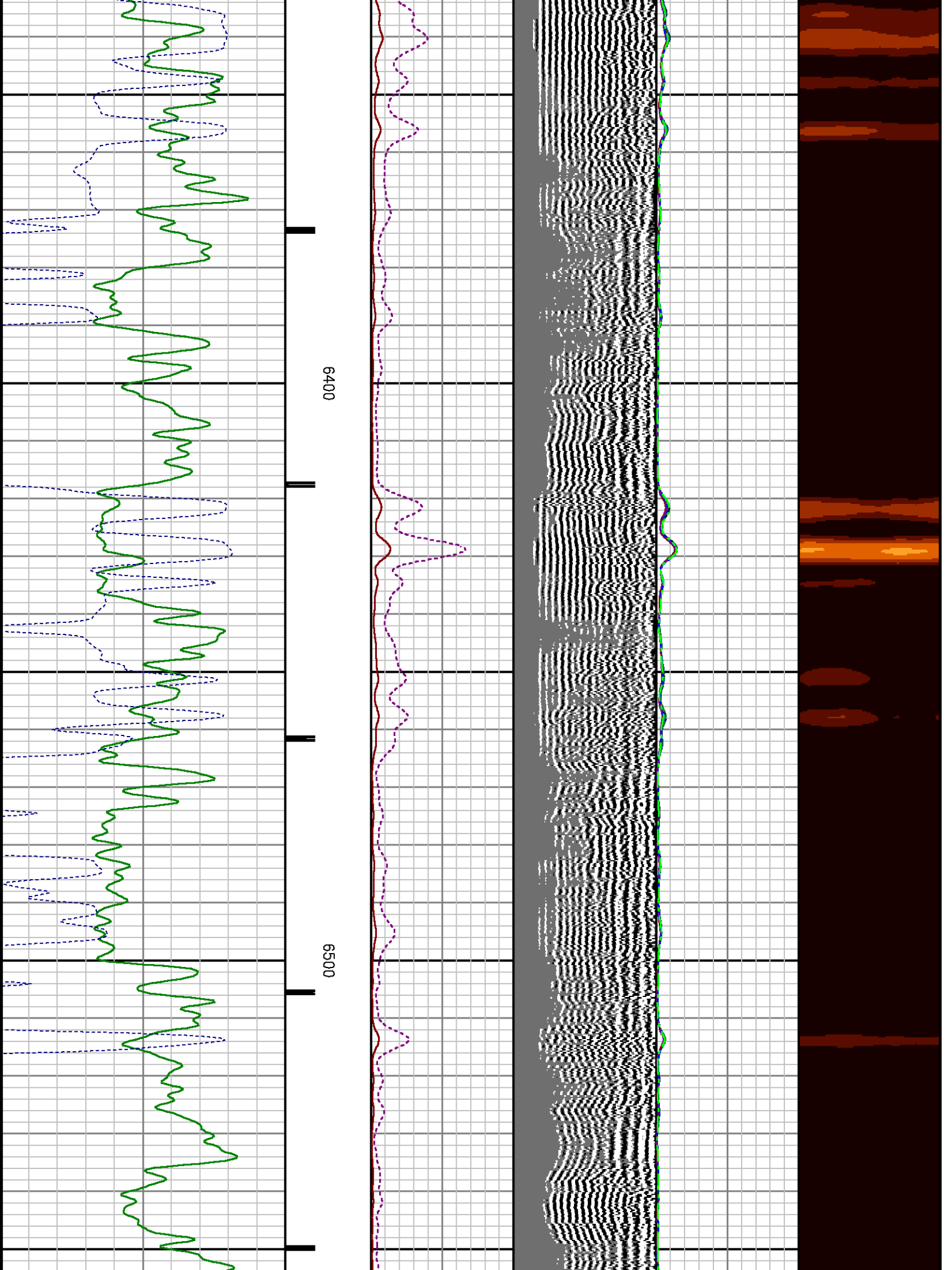


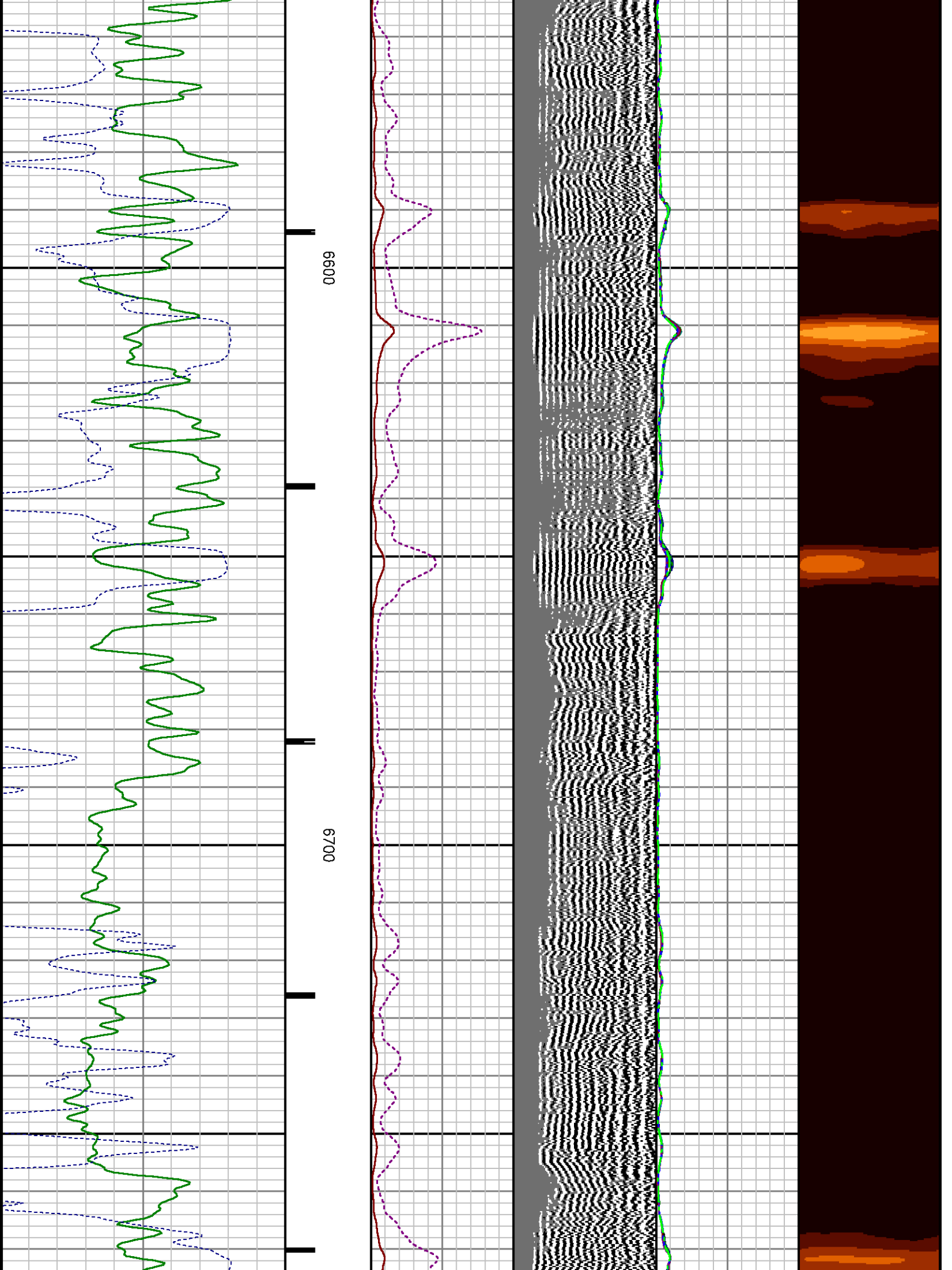


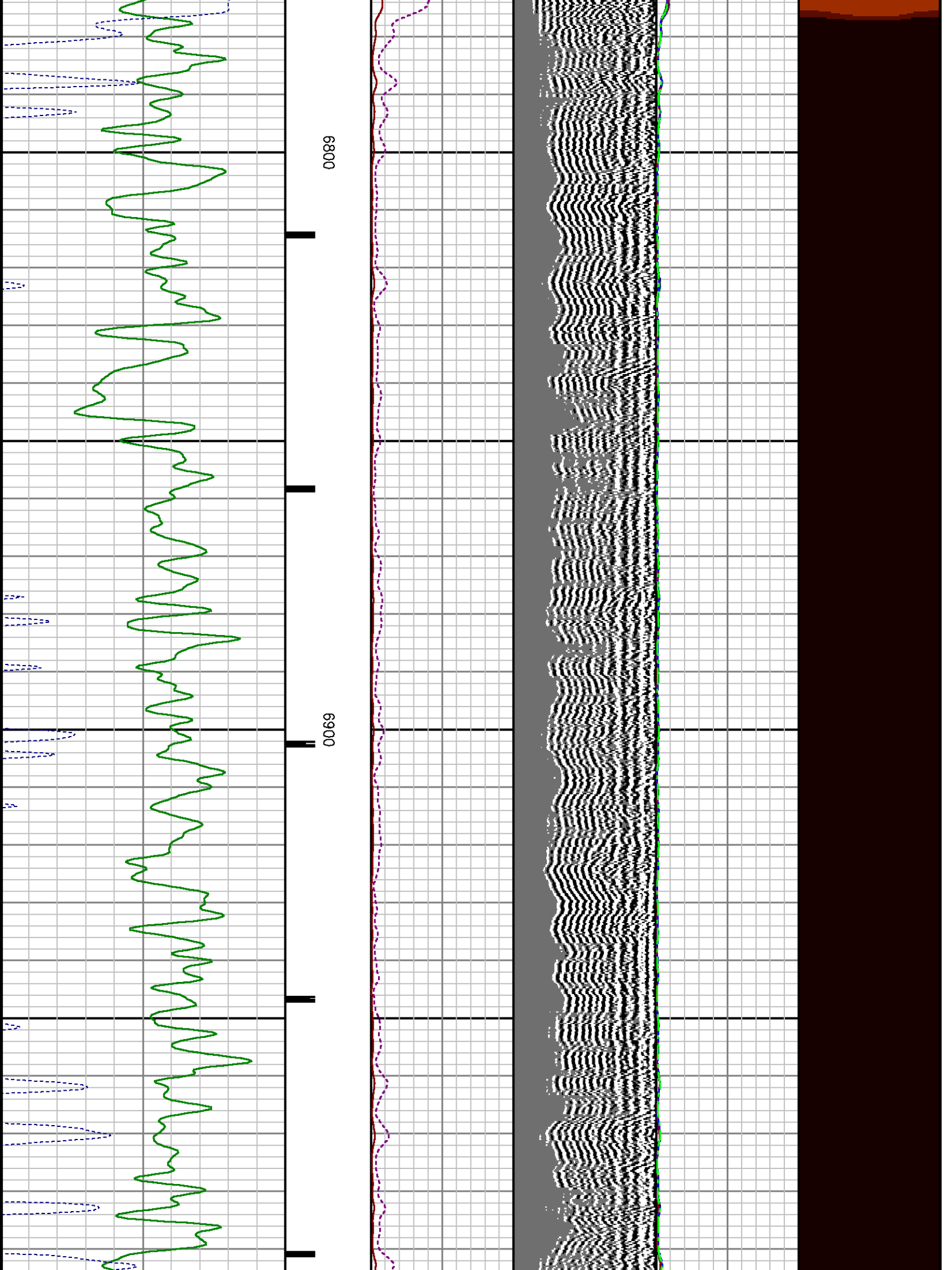


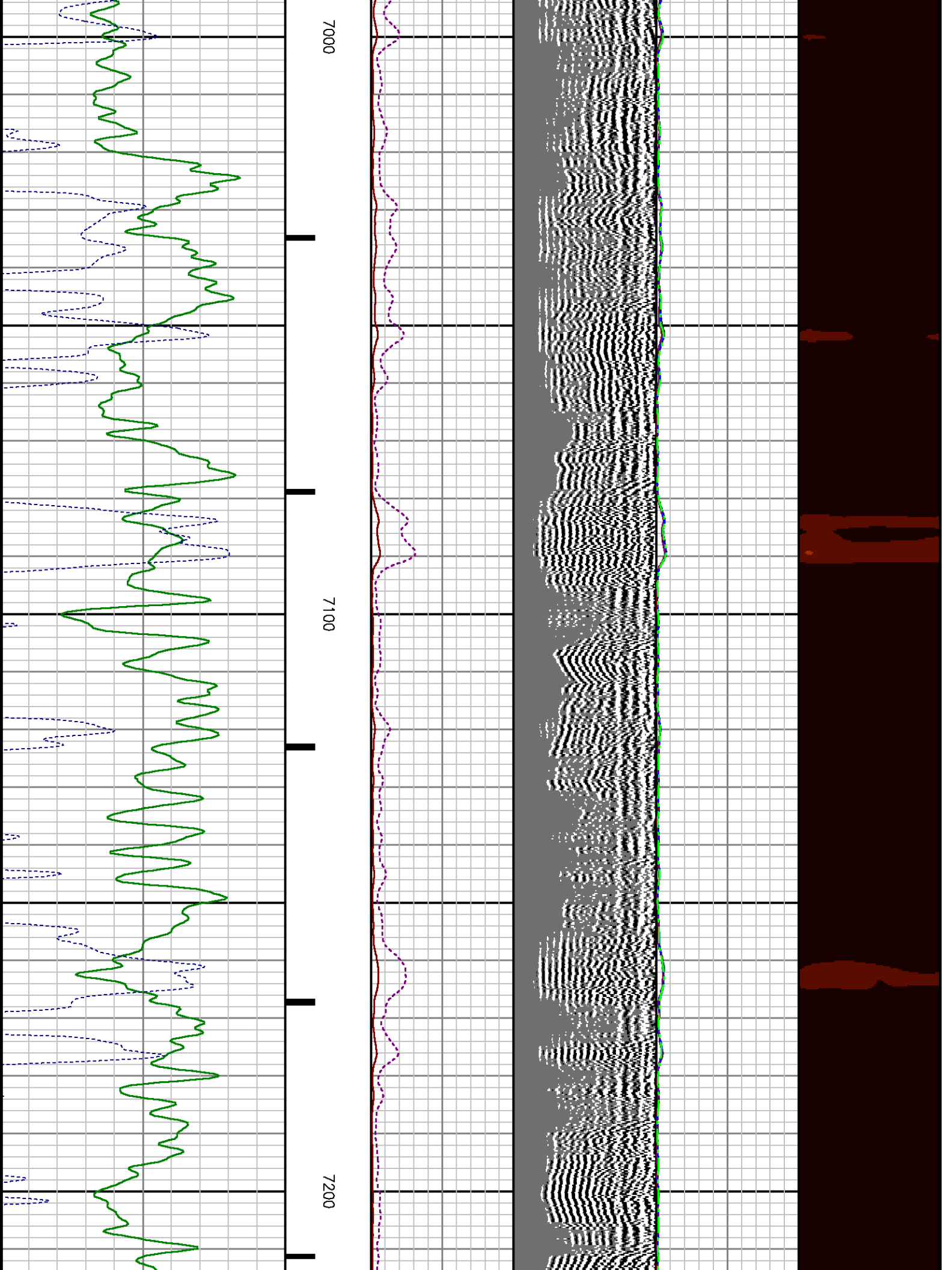


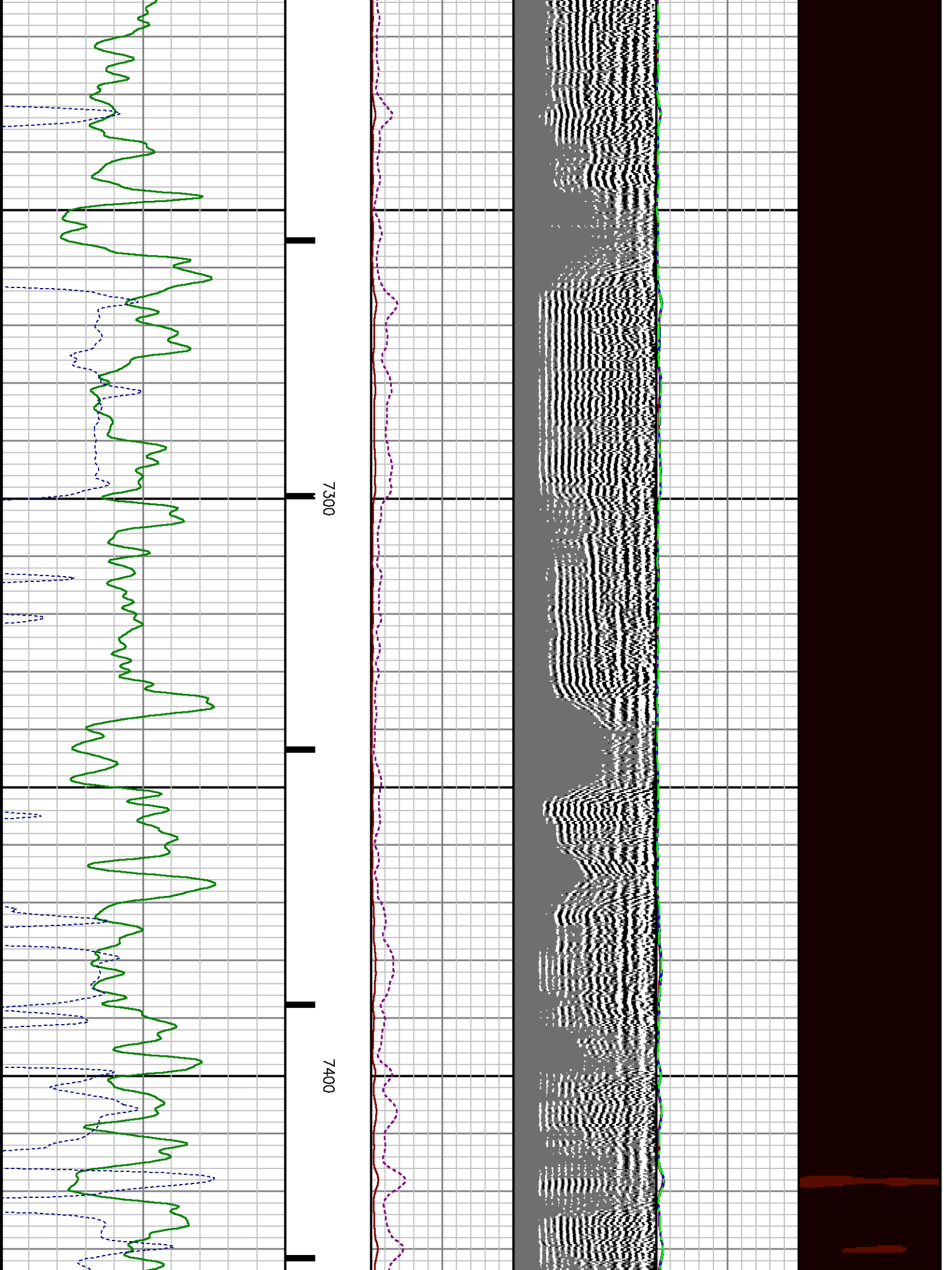


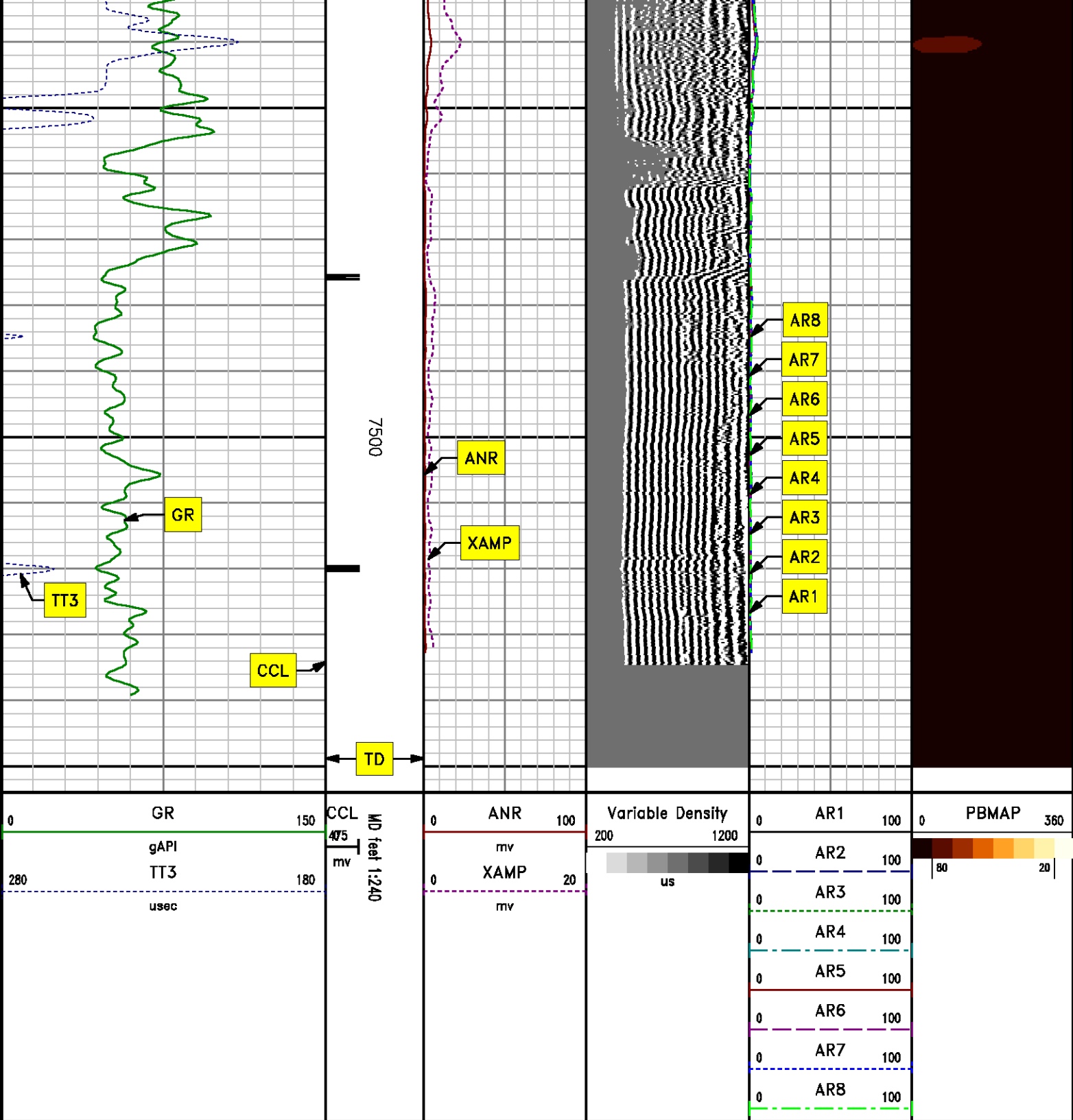












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7218.770	7549.770
RAL	Amp Gate Start Near	195.000	usec	7218.770	7549.770
RAL	Amp Gate Start Radial	195.000	usec	7218.770	7549.770
RAL	Amp Gate Width Far	25.000	usec	7218.770	7549.770
RAL	Amp Gate Width Near	25.000	usec	7218.770	7549.770
RAL	Amp Gate Width Radial	25.000	usec	7218.770	7549.770
RAL	casing od	4.500	inches	7218.770	7549.770
RAL	casing wt	11.600	lbm/ft	7218.770	7549.770
RAL	FB Start Far	291.900	usec	7218.770	7549.770
RAL	FB Start Near	175.391	usec	7218.770	7549.770
RAL	FB Start Radial	175.391	usec	7218.770	7549.770
RAL	FB Thresh Far	10.000	mv	7218.770	7549.770
RAL	FB Thresh Near	4.000	mv	7218.770	7549.770
RAL	FB Thresh Radial	4.000	mv	7218.770	7549.770
RAL	Fluid Travel Time	200.000	usec/ft	7218.770	7549.770

DEPTH OFFSETS

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

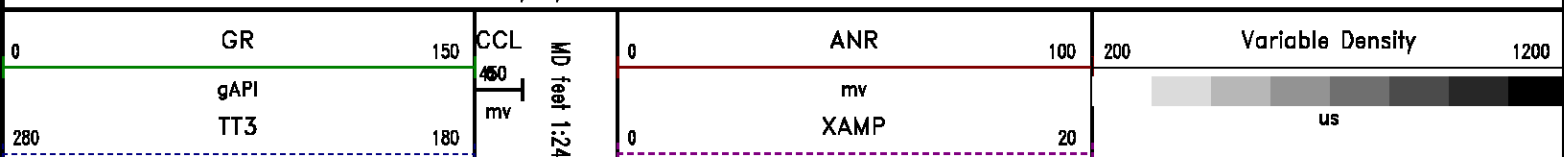
Well : WPX ENERGY PA 512-2

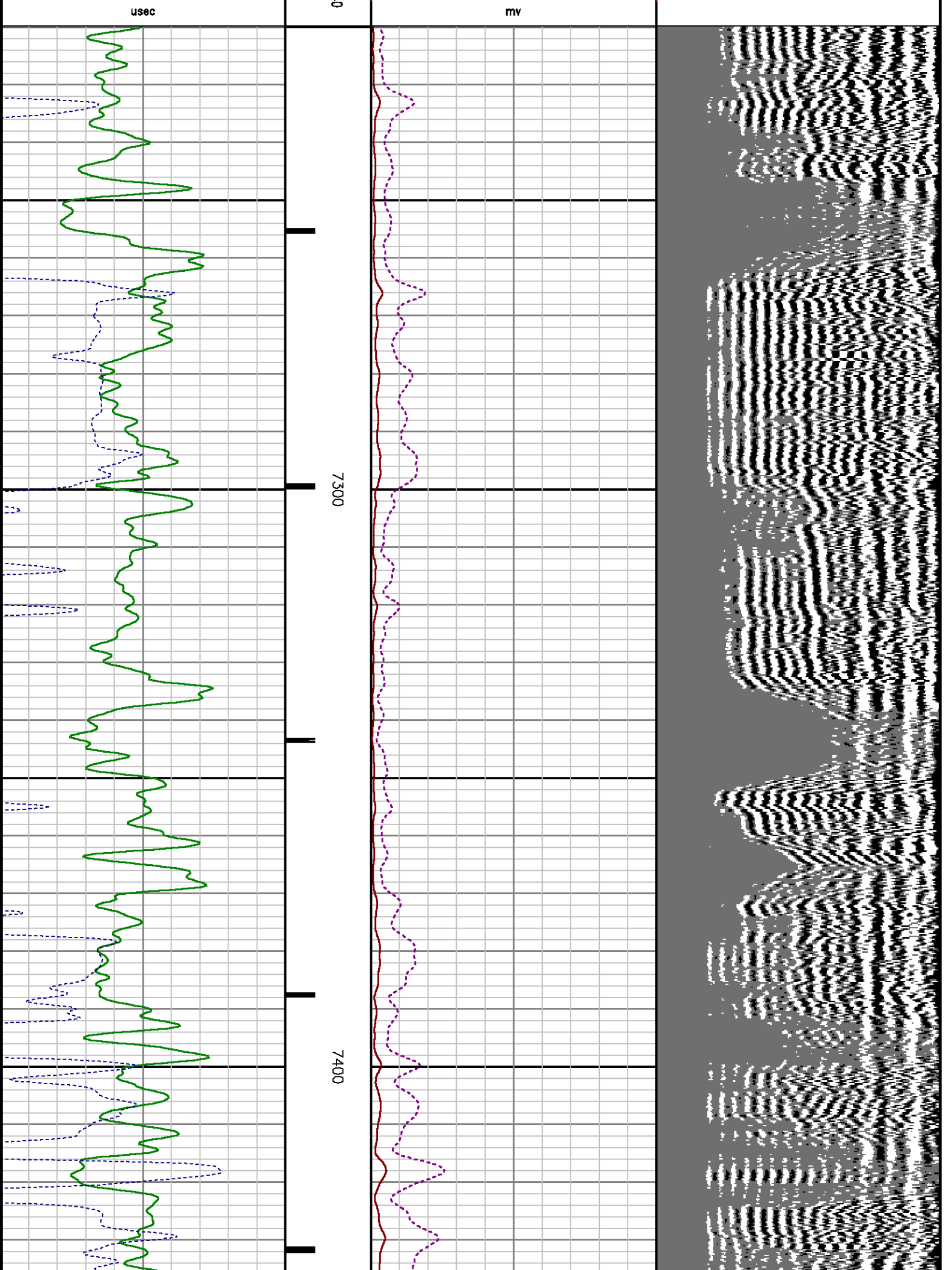
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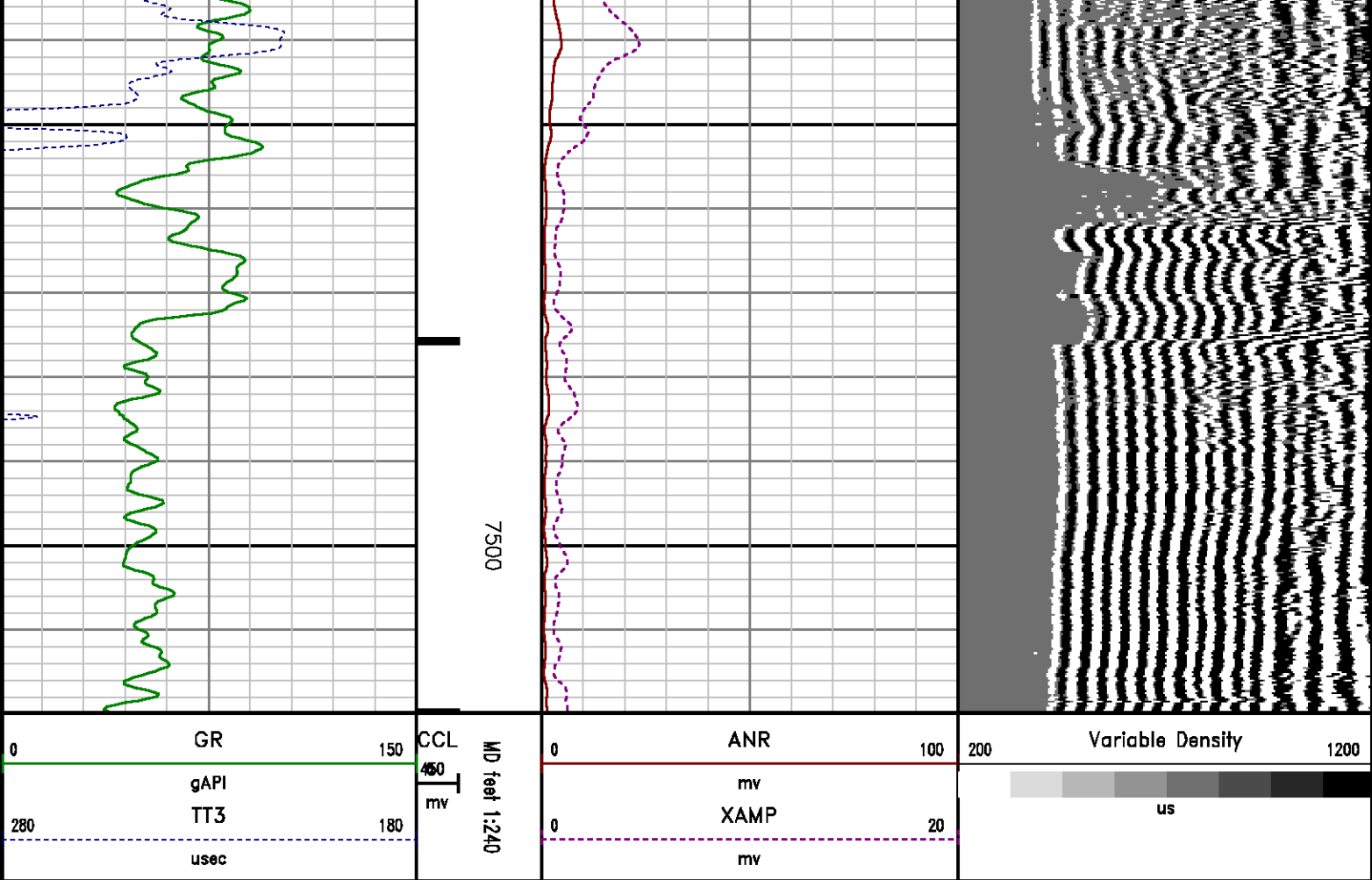
Mode : PlotMgr 5.4.504

Interval : 7220.00 - 7520.00 feet UP

Created : 3/10/2014 8:46:44 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\49609_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Mar 09 07:56:25 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 09

Tool Delay [usec] -56.00 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	217	216	30	166	25	0.276	100.00	0.16
3 Ft. Receiver	217	216	30	161	14	0.360	100.00	0.16
5 Ft. Receiver	326	325	30	266	25	1.723	150.00	0.18
Radial #1	217	216	30	166	14	0.608	100.00	0.16
Radial #2	217	216	30	166	14	0.319	100.00	0.16

Radial #3	217	216	30	166	14	0.101	100.00	0.16
Radial #4	217	216	30	166	14	-0.225	100.00	0.16
Radial #5	217	216	30	166	14	-0.015	100.00	0.16
Radial #6	216	216	30	166	14	0.400	100.00	0.16
Radial #7	216	216	30	166	14	0.137	100.00	0.16
Radial #8	217	216	30	166	14	-0.014	100.00	0.16

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49609 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Mar 09 11:13:00 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 09

Tool Delay [usec] -56.00 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	0.021	0.000	0.98	100.000
3 Ft. Receiver	195	25	2.228			
5 Ft. Receiver	305	25	3.042			
Radial #1	195	25	1.922			
Radial #2	195	25	1.914			
Radial #3	195	25	2.030			
Radial #4	195	25	2.035			
Radial #5	195	25	2.289			
Radial #6	195	25	2.412			
Radial #7	195	25	1.943			
Radial #8	195	25	1.980			

GAMMA RAY

Calibration File: C:\case\calver\GR\45609.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Mar 09 11:17:29 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 09

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA-612	52.36	330.13	0.666	34.87	219.87	185.00

Verification File: C:\case\calver\GR\45609.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sun Mar 09 11:18:54 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 09

Calibrator #	Background	Calibrator On	Multiplicative	Background	Calibrator On	Differential
	[cps]	[cps]		[api]	[api]	[api]
S2K WA-612	56.49	331.07	0.666	37.62	220.49	182.87

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

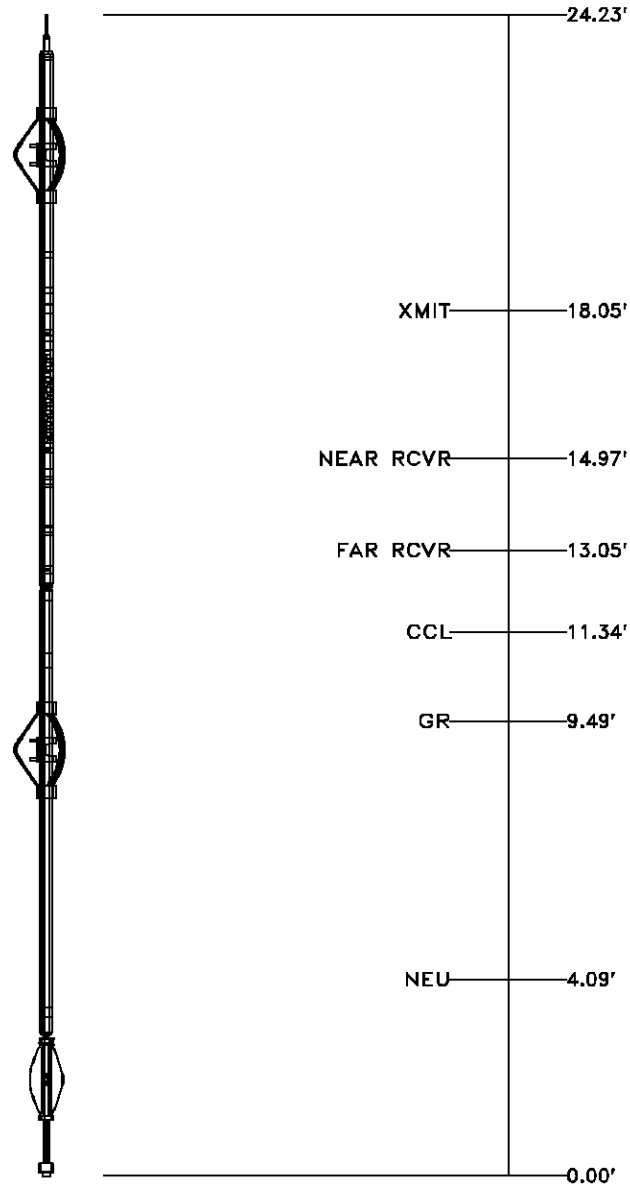
Series 1426XA
 Mnemonic PROB
 Diameter 2.75"
 Length 11.17'
 Measure Point 0.75' FAR RCVR
 Measure Point 2.67' NEAR RCVR
 Measure Point 5.75' XMIT
 Temp Rating 350.00 °F
 Press Rating 18000.00 PSI

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
HUGHES

Well	WPX ENERGY PA 512-2		
Field	PARACHUTE		
County	GARFIELD	State	CO

CH083165

API No:

05045221410000

Baker Atlas

CASE

Location

SHL: 2067' FSL & 1538' FWL

BHL: 2425' FNL & 1063' FWL

Elevations

KB 5846 ft

DF

GL 5821 ft

SEC 2 TWP 7S RGE 95W

2 7S 95W

GV 86-2 PAD

AZTEC 1000