



RADIAL ANALYSIS
BOND LOG

Baker Atlas

File No: 1888	Company Well	EXXONMOBIL PRODUCTION COMPANY PCU 197-34B10	
API No: 08-103-11148-00	Field County	PICEANCE CREEK RIO BLANCO	
	Location 788' FSL & 863' FEL	State COLORADO	Other Services 3.625" GAUGE RPM
	SEC 34 TWP 15 RGE 97W		
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 6647 ft K.B. _____ 30.2 ft KELLY BUSHING _____	Elevations KB 6677.2 ft DF 6676.2 ft GL 6647 ft	

Date	09/MAR/10	
Run	ONE	
Service Order	576777	
Depth Driller	12655 ft	
Depth Logger	12586 ft	
Bottom Logged Interval	12586 ft	
Top Logged Interval	5800 ft	
Time Started	17:30	
Time Finished	2:30	
Operator Rig Time	5 hrs	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	FULL	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	N/A	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	4271	VERNAL, UT
Recorded By	J. WIESER	
Witnessed By	MR. WOODROW GARNER	

- 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
6.125 In		

Casing Record				
Size	Weight	Grade	From	To
4.5 In	15.1 lbm/ft	P-110	SURFACE	12655 ft

Remarks
THE CREW OF 4271 THANKS YOU.

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	452	CENTRALIZED
1	1	GR/CCL/TEL	2459XA	503	CENTRALIZED

MAIN SECTION
PRIMARY PRESENTATION

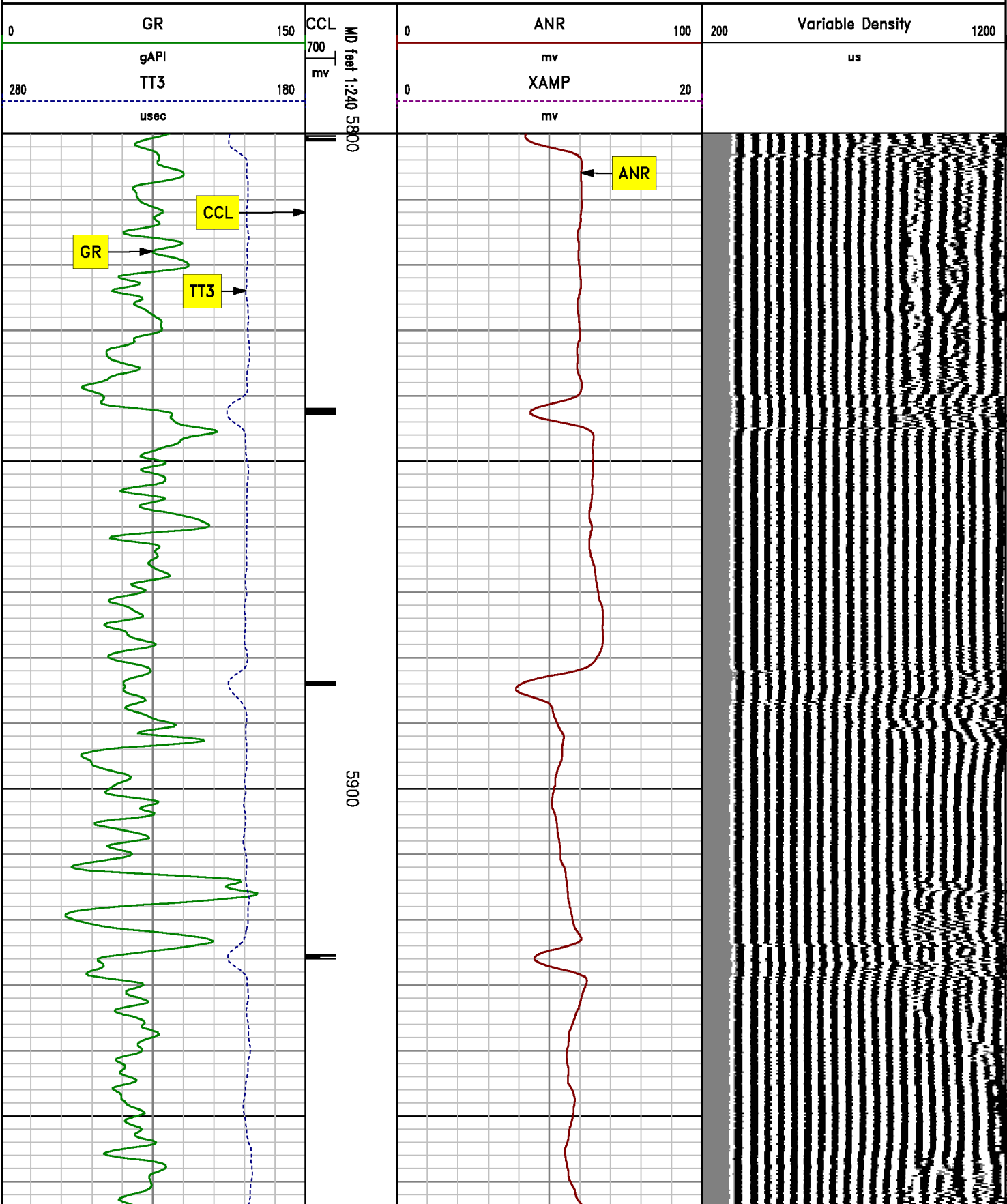
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	5499.750	12620.000
RAL	Amp Gate Start Near	197.754	usec	5499.750	12620.000
RAL	Amp Gate Start Radial	197.754	usec	5499.750	12620.000
RAL	Amp Gate Width Far	25.000	usec	5499.750	12620.000
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RAL	Amp Gate Width Radial	25.000	usec	5499.750	12620.000
RAL	casing od	4.500	inches	5499.750	12620.000
RAL	casing wt	15.100	lbm/ft	5499.750	12620.000
RAL	FB Start Far	289.263	usec	5499.750	12620.000
RAL	FB Start Near	172.754	usec	5499.750	12620.000
RAL	FB Start Radial	172.754	usec	5499.750	12620.000
RAL	FB Thresh Far	15.000	mv	5499.750	12620.000
RAL	FB Thresh Near	10.000	mv	5499.750	12620.000
RAL	FB Thresh Radial	10.000	mv	5499.750	12620.000
RAL	Fluid Travel Time	200.000	usec/ft	5499.750	12619.793

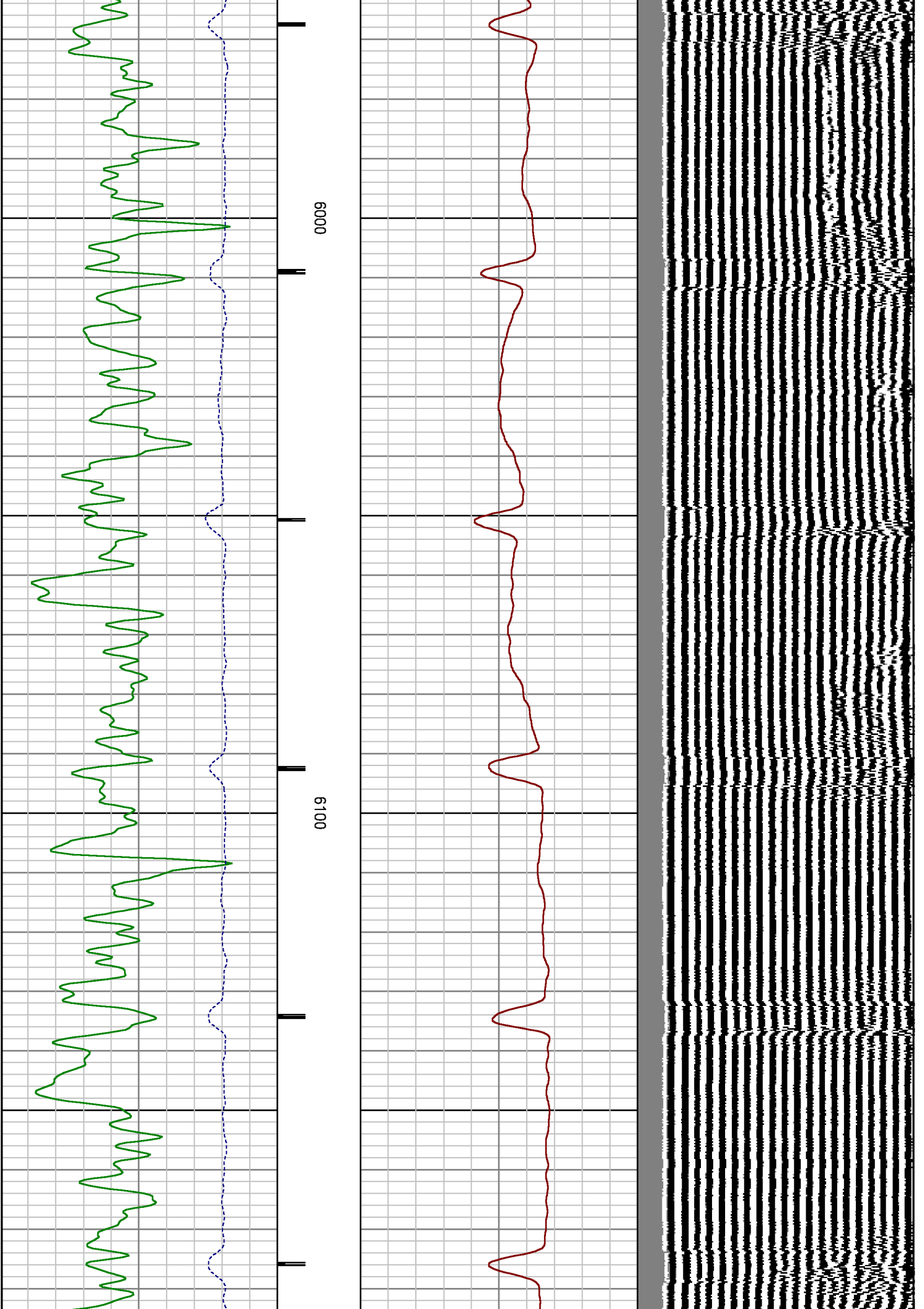
DEPTH OFFSETS
(for Acquired Curves)

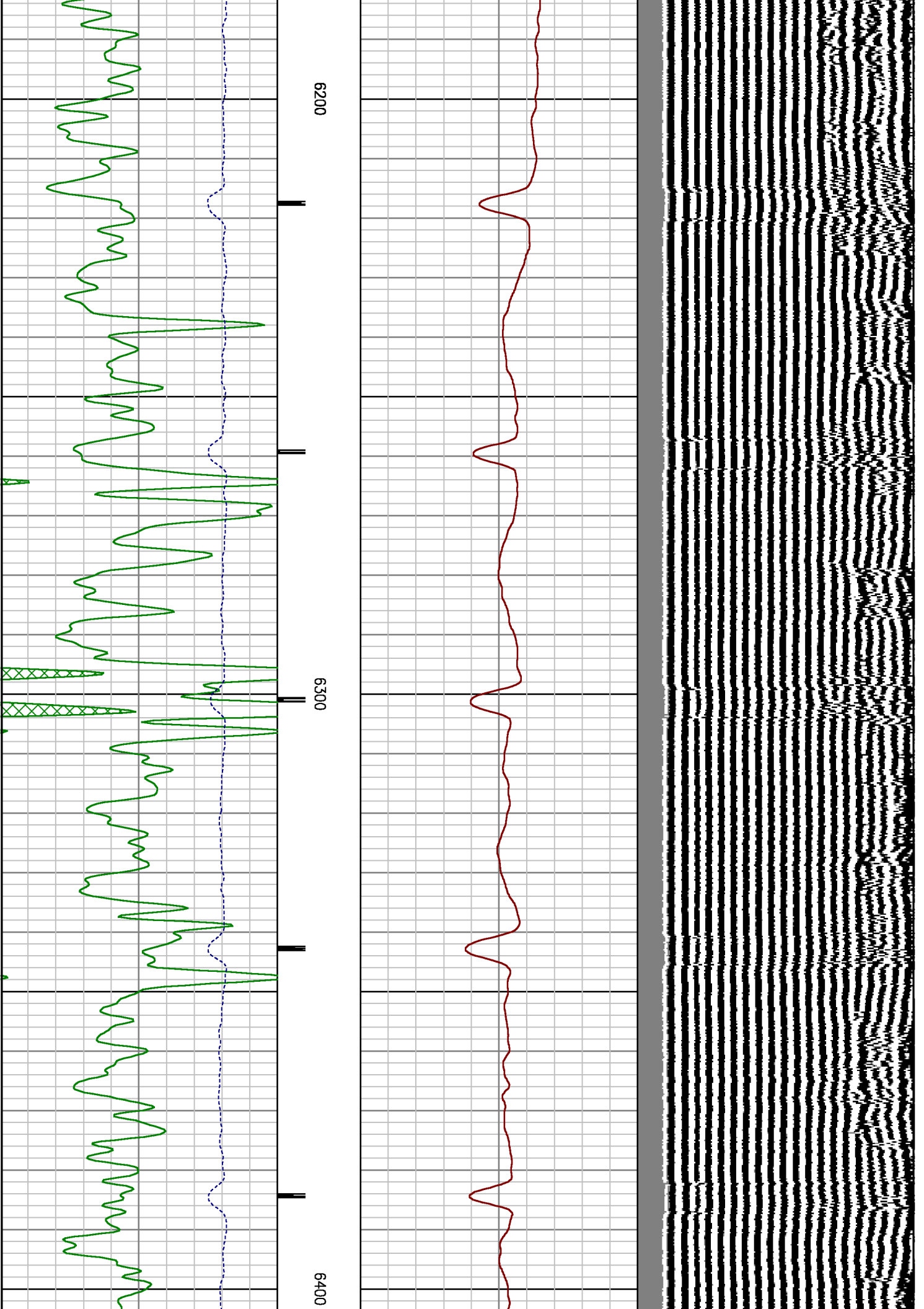
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-15.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-14.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

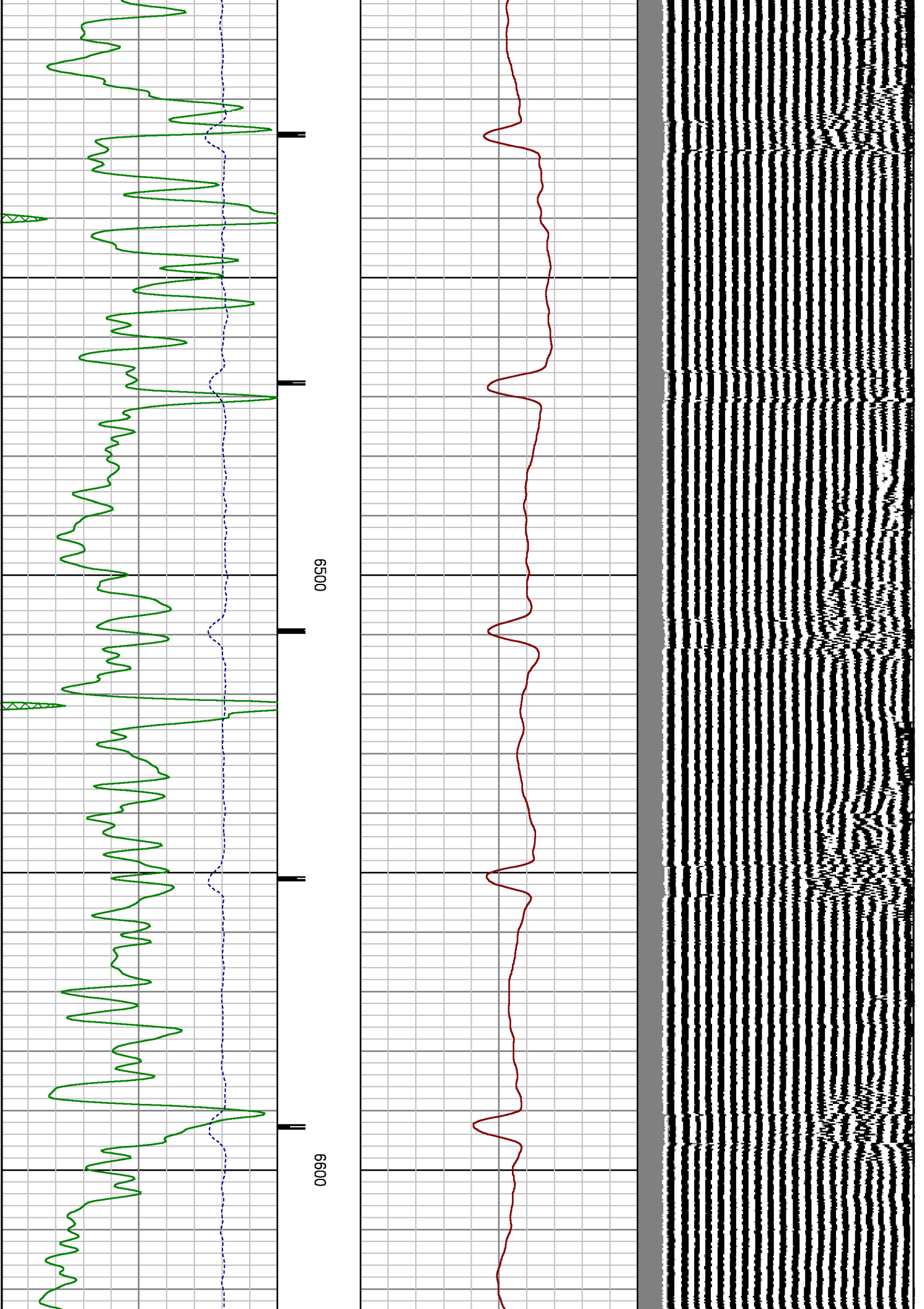
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Plotted by : PlotMgr, v5.4.504

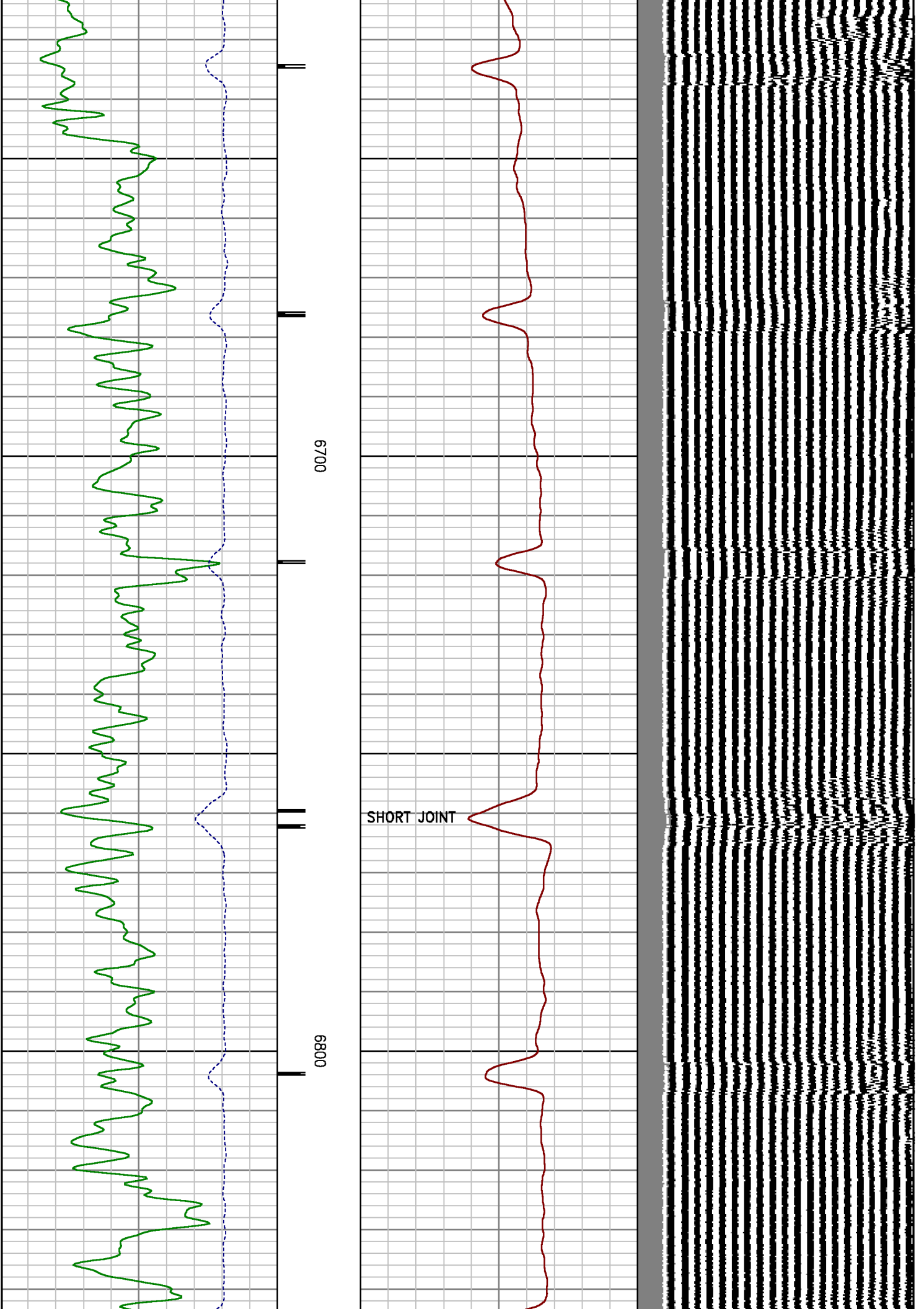
Company : EXXONMOBIL PRODUCTION COMPANY
Well : PCU 197-34B10
File Name : d:\welldata\10rad\main.xtf
Mode : PlotMgr 5.4.504
Interval : 5800.00 - 12590.00 feet UP
Created : 3/8/2010 9:55:20 PM

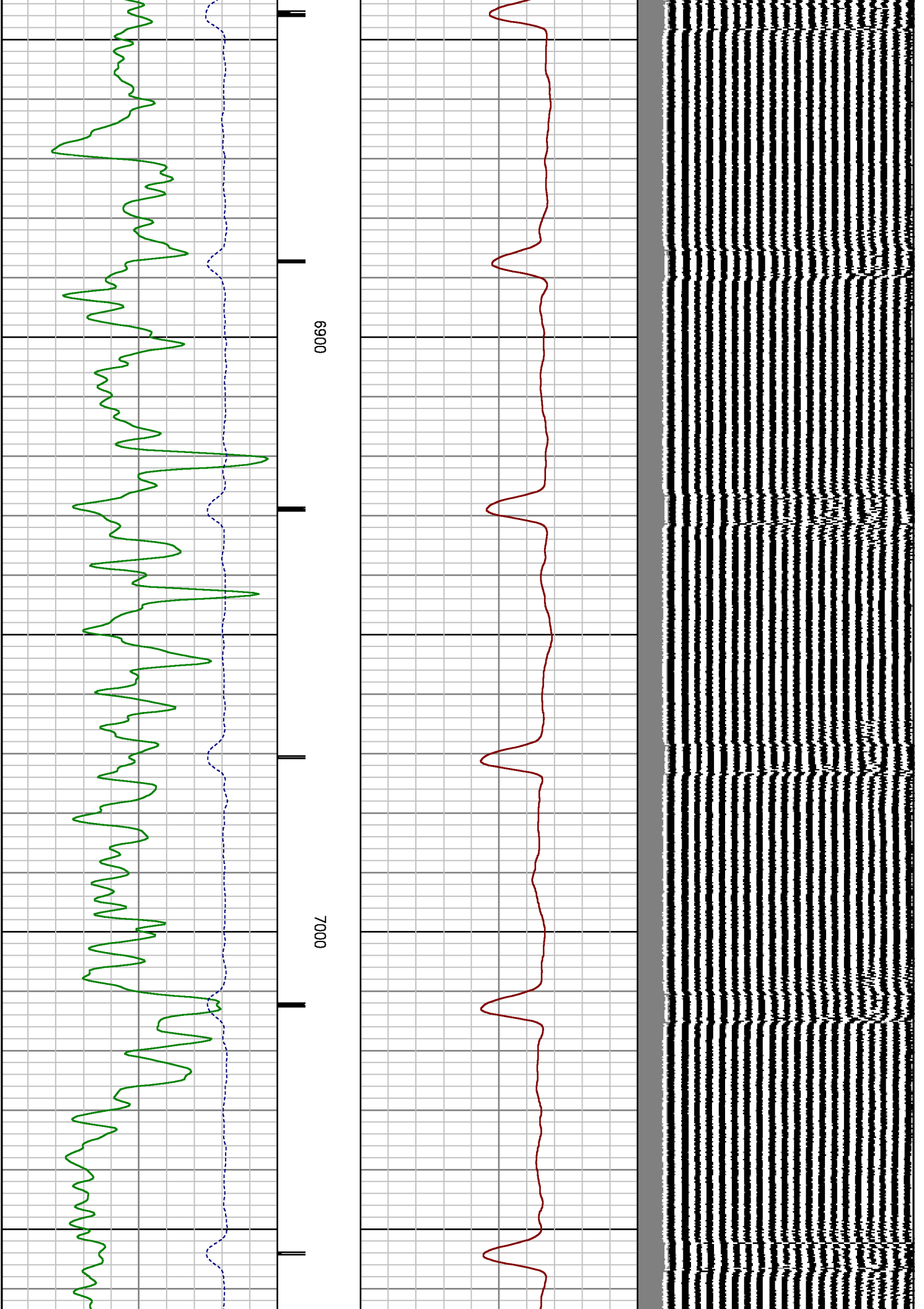


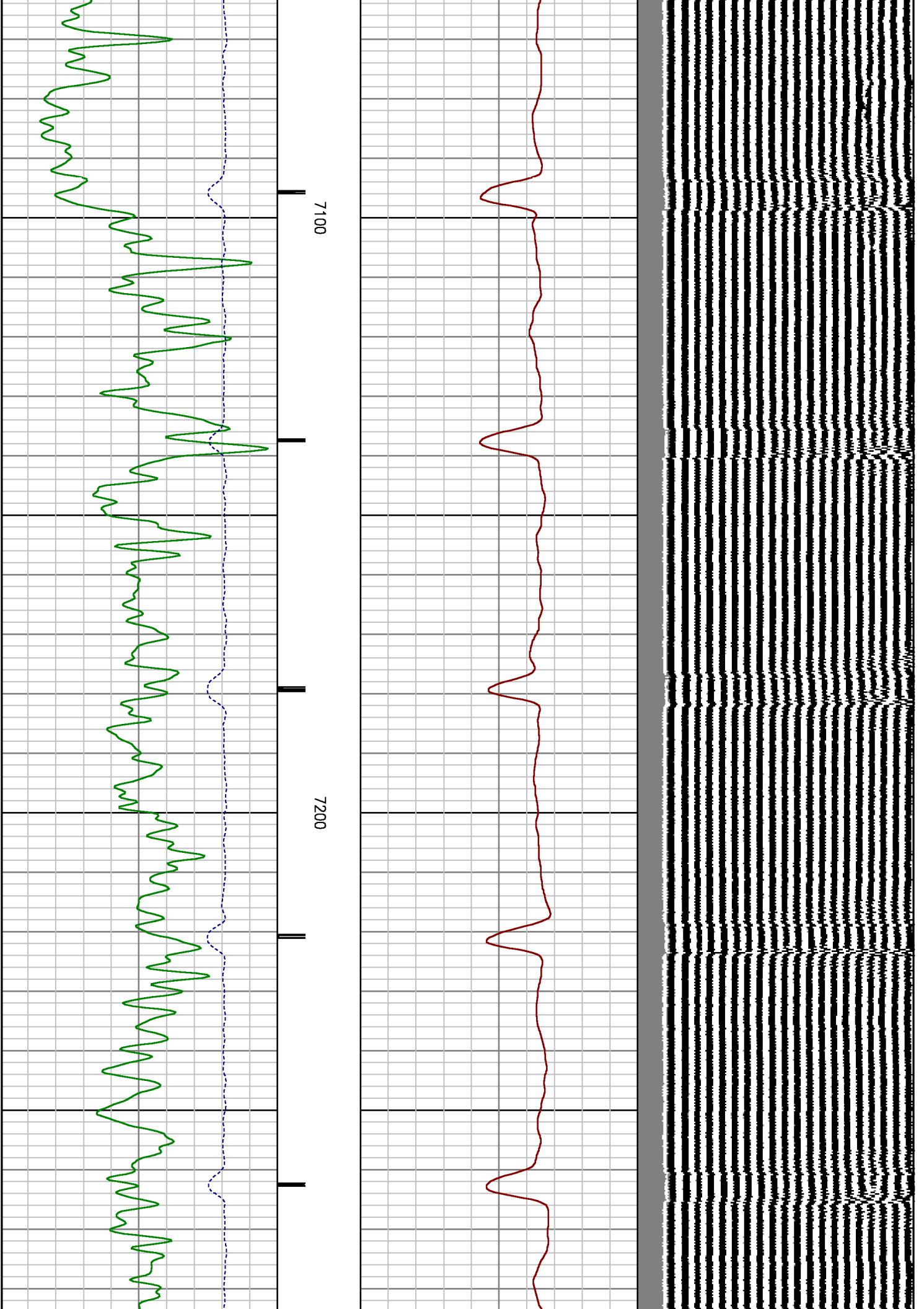


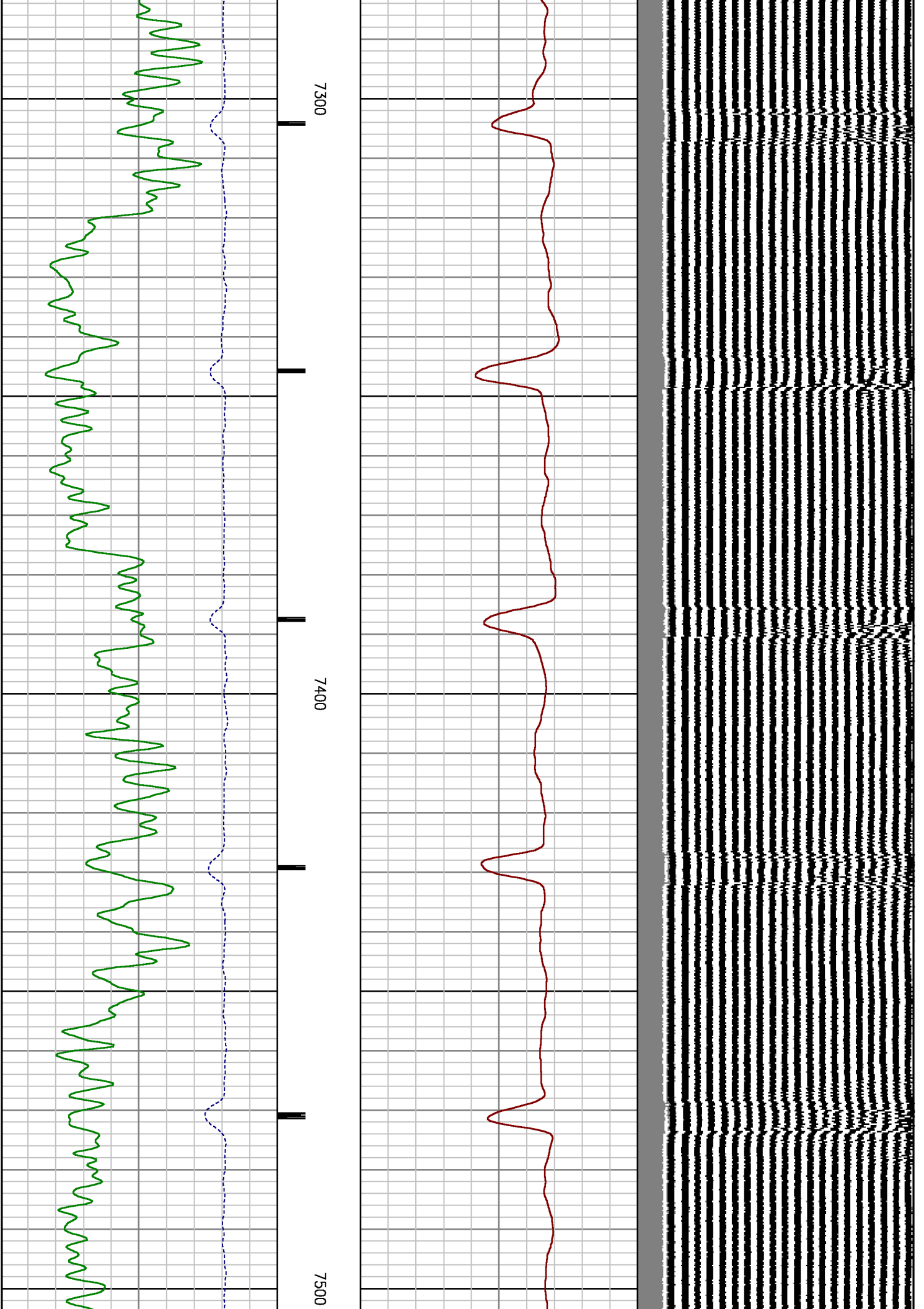


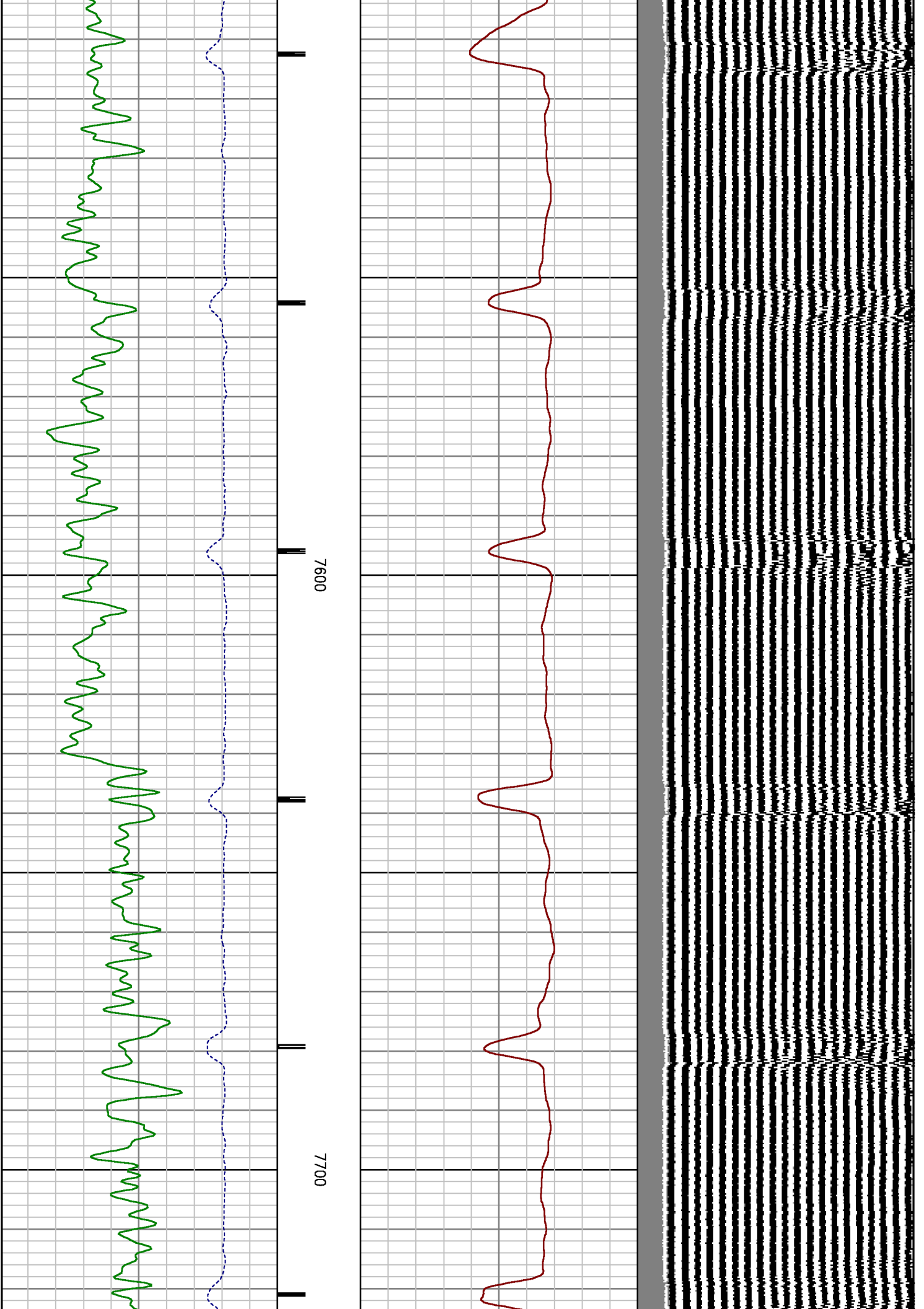


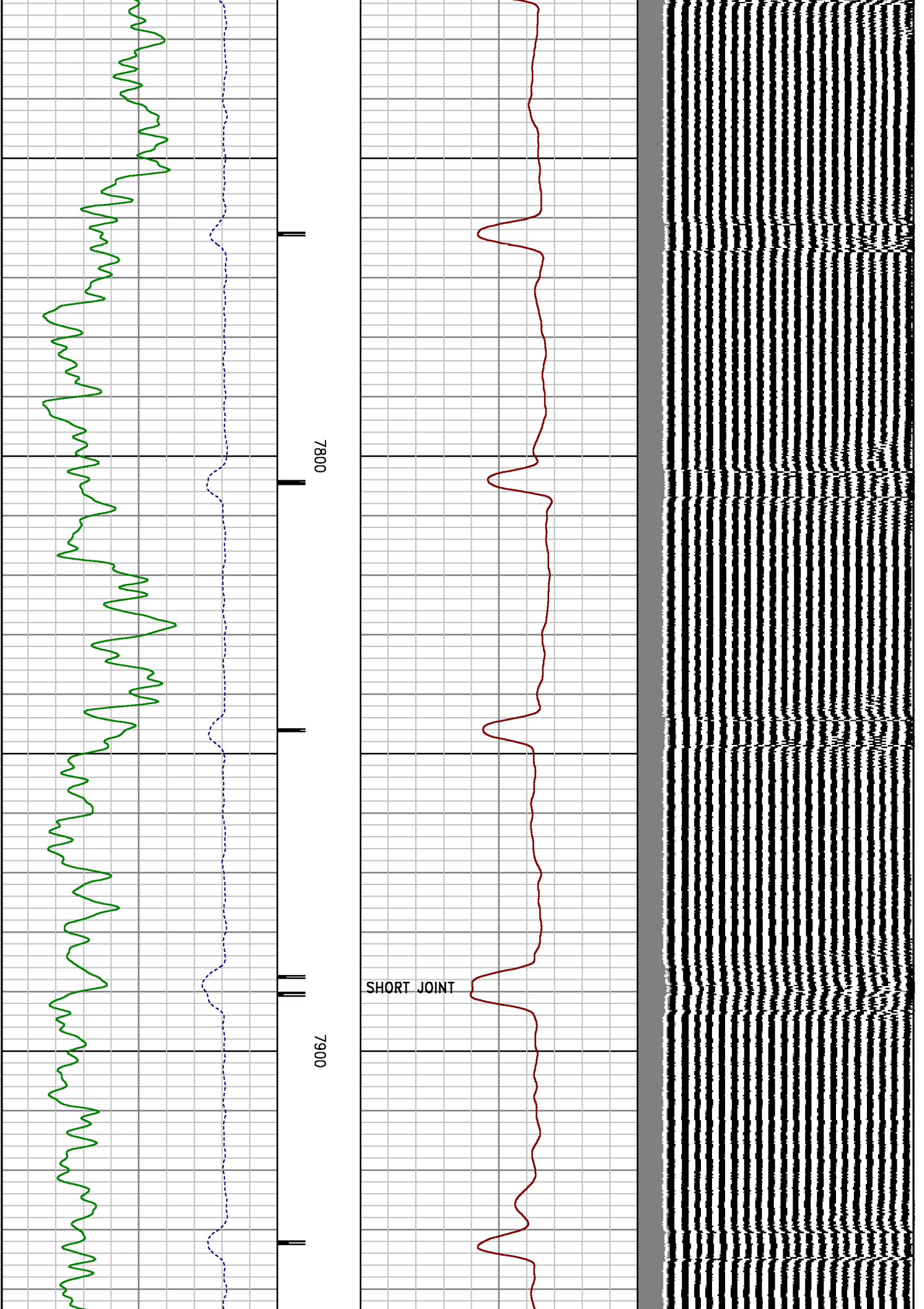


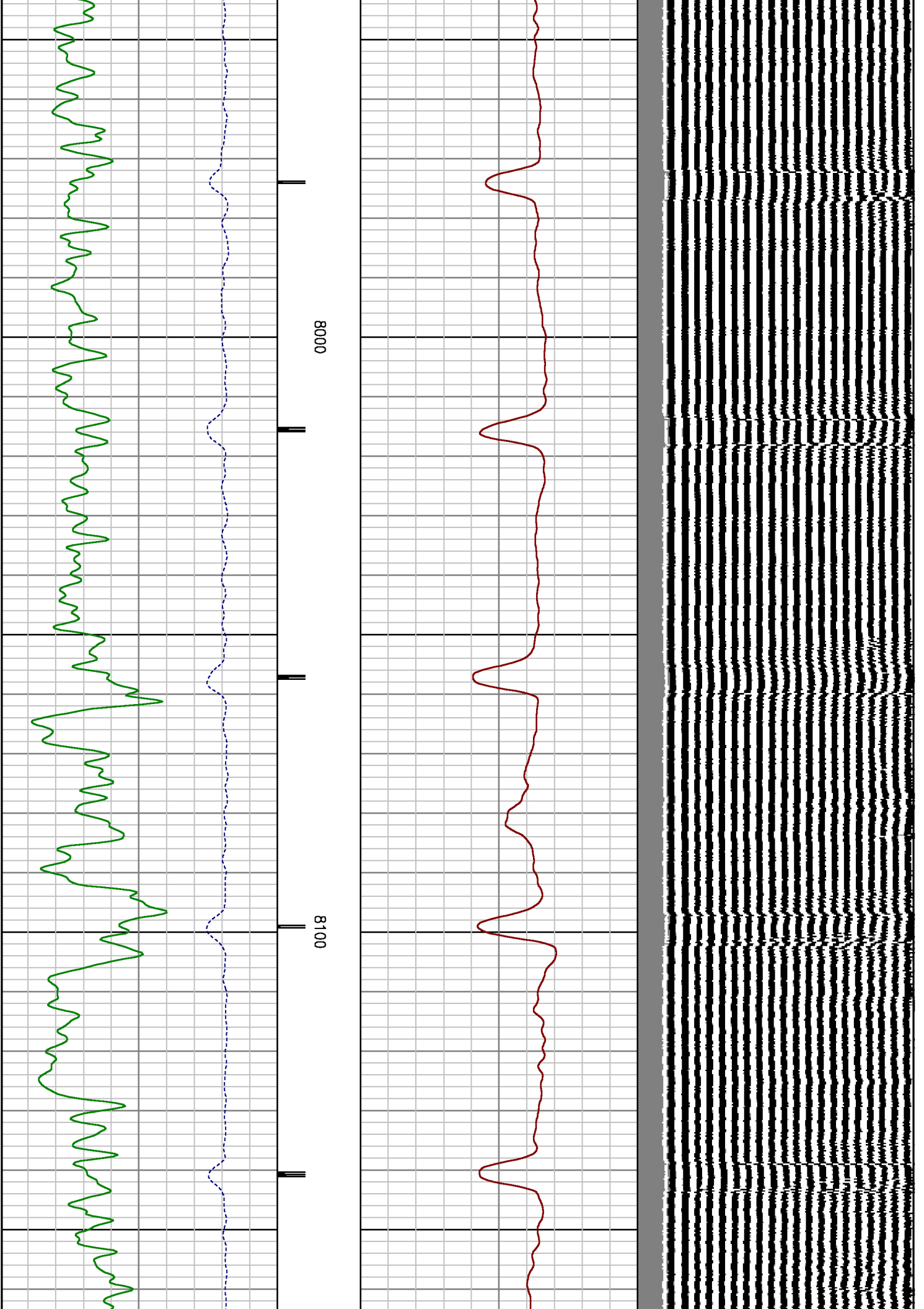


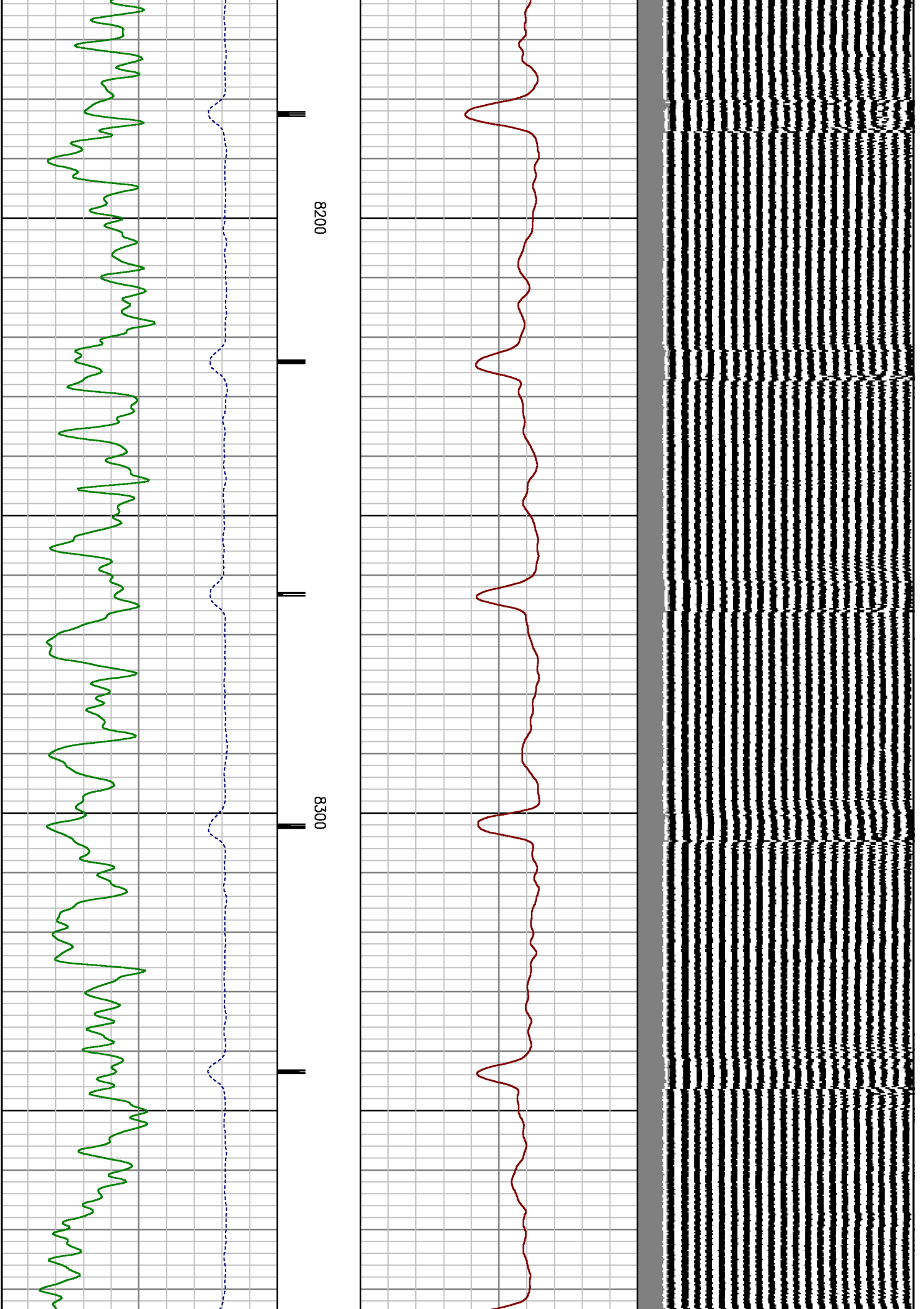


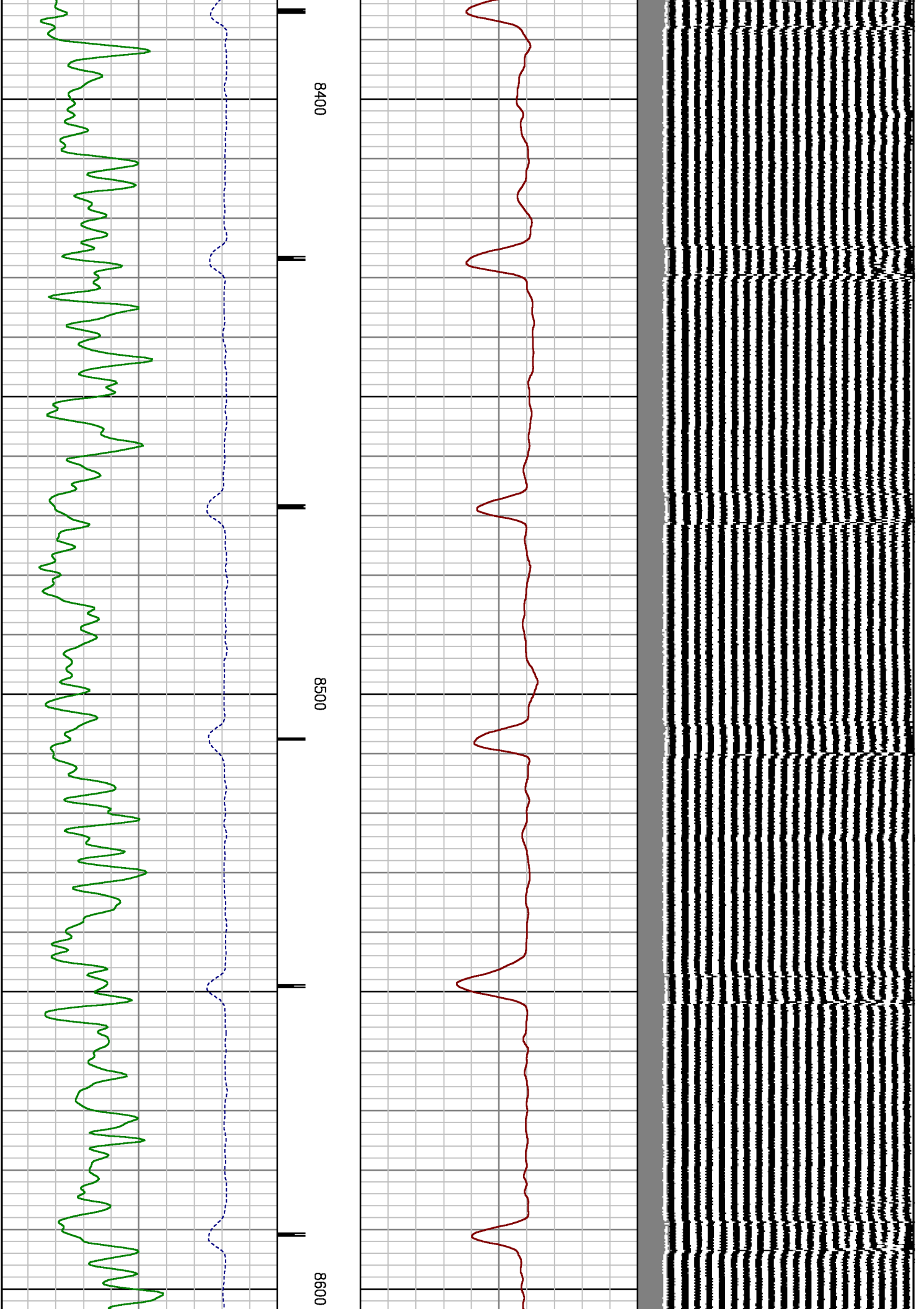


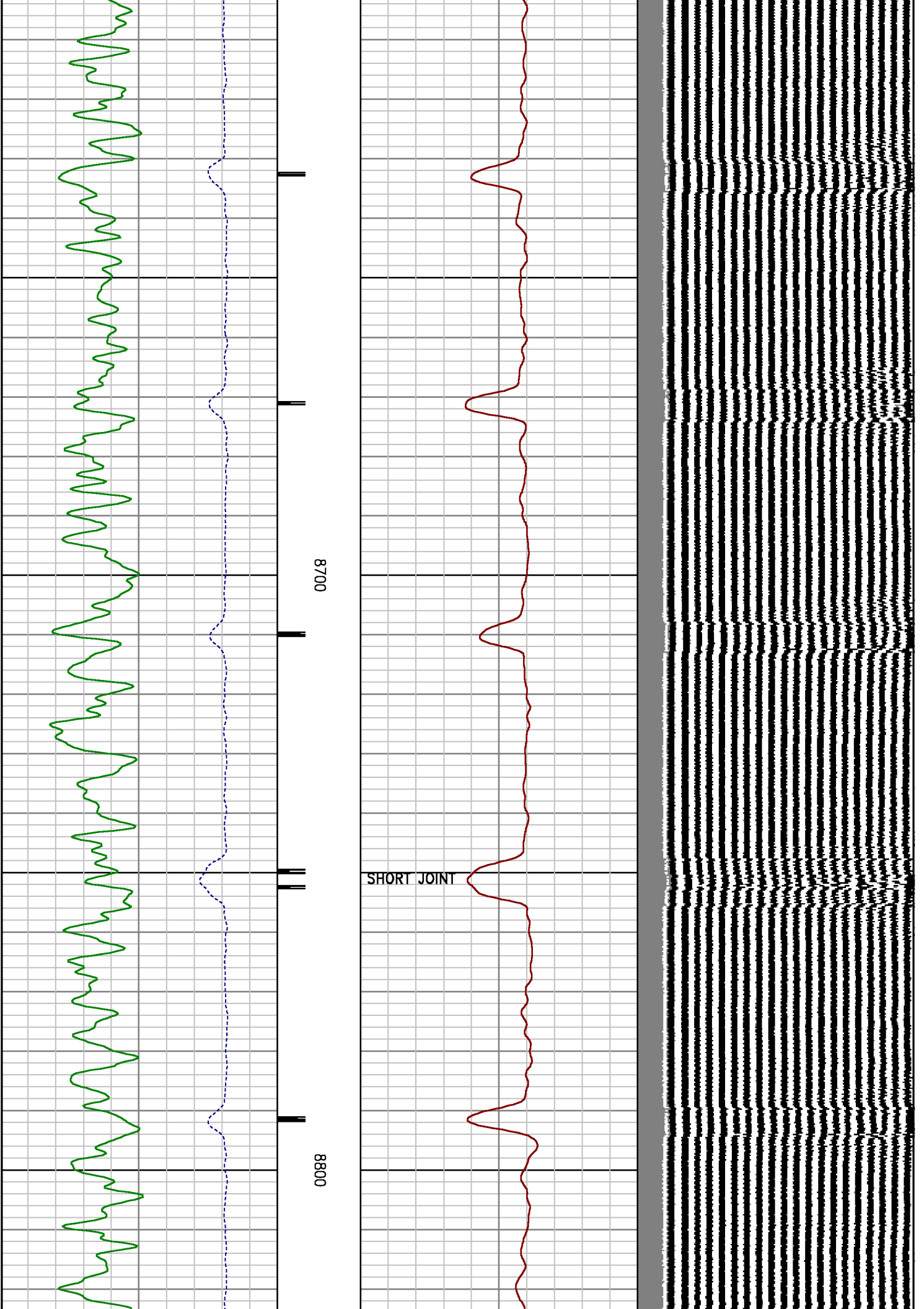


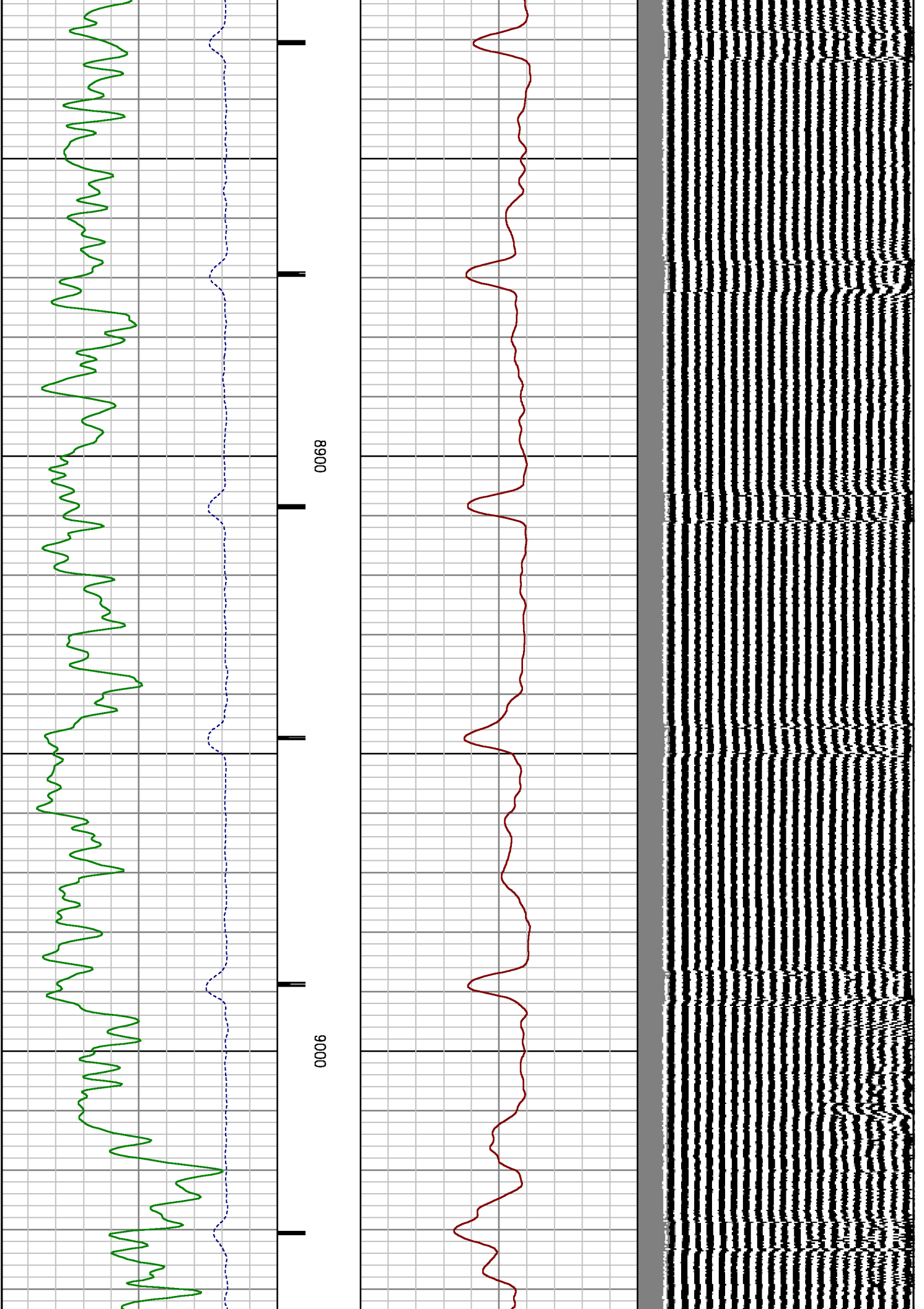


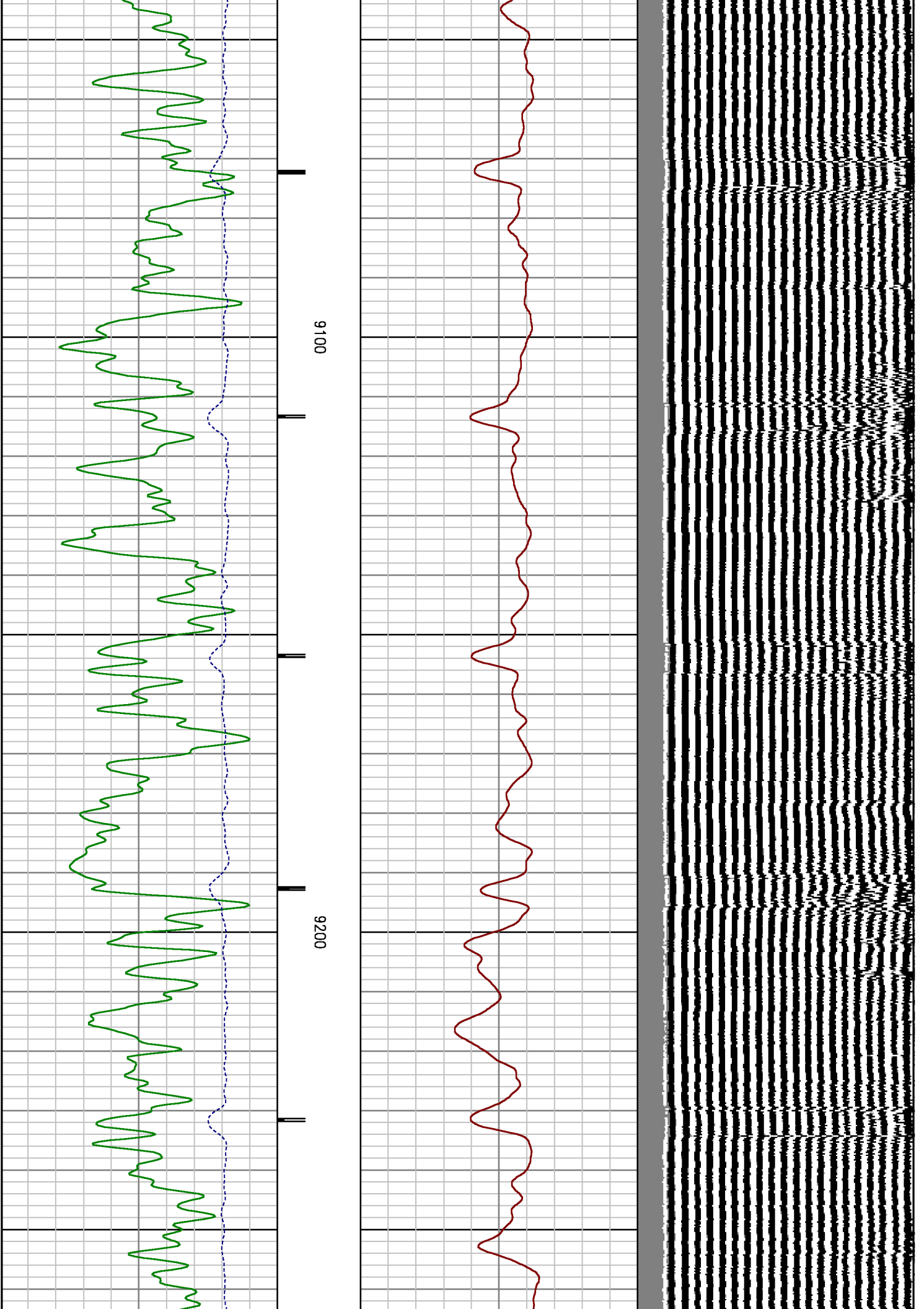


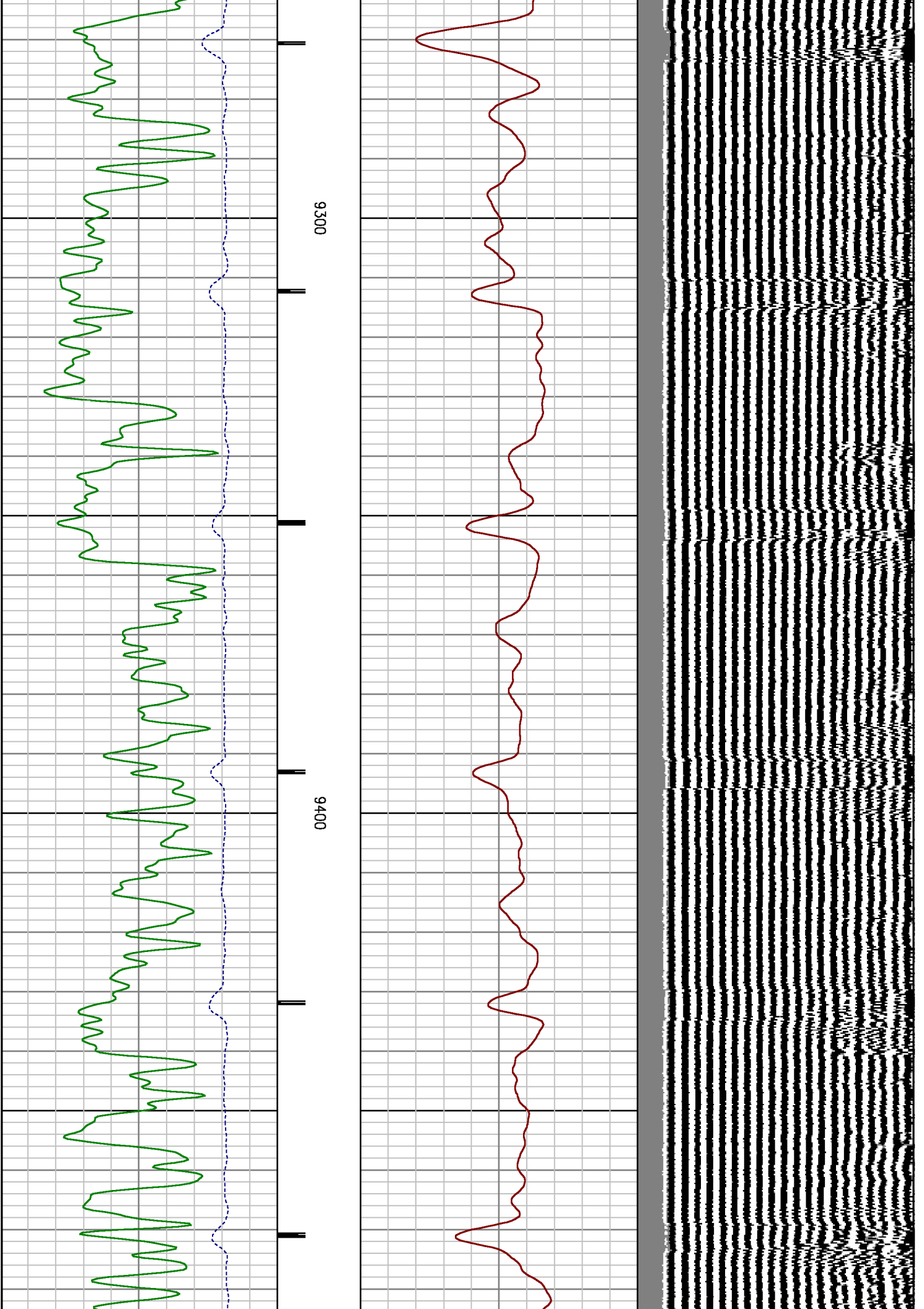


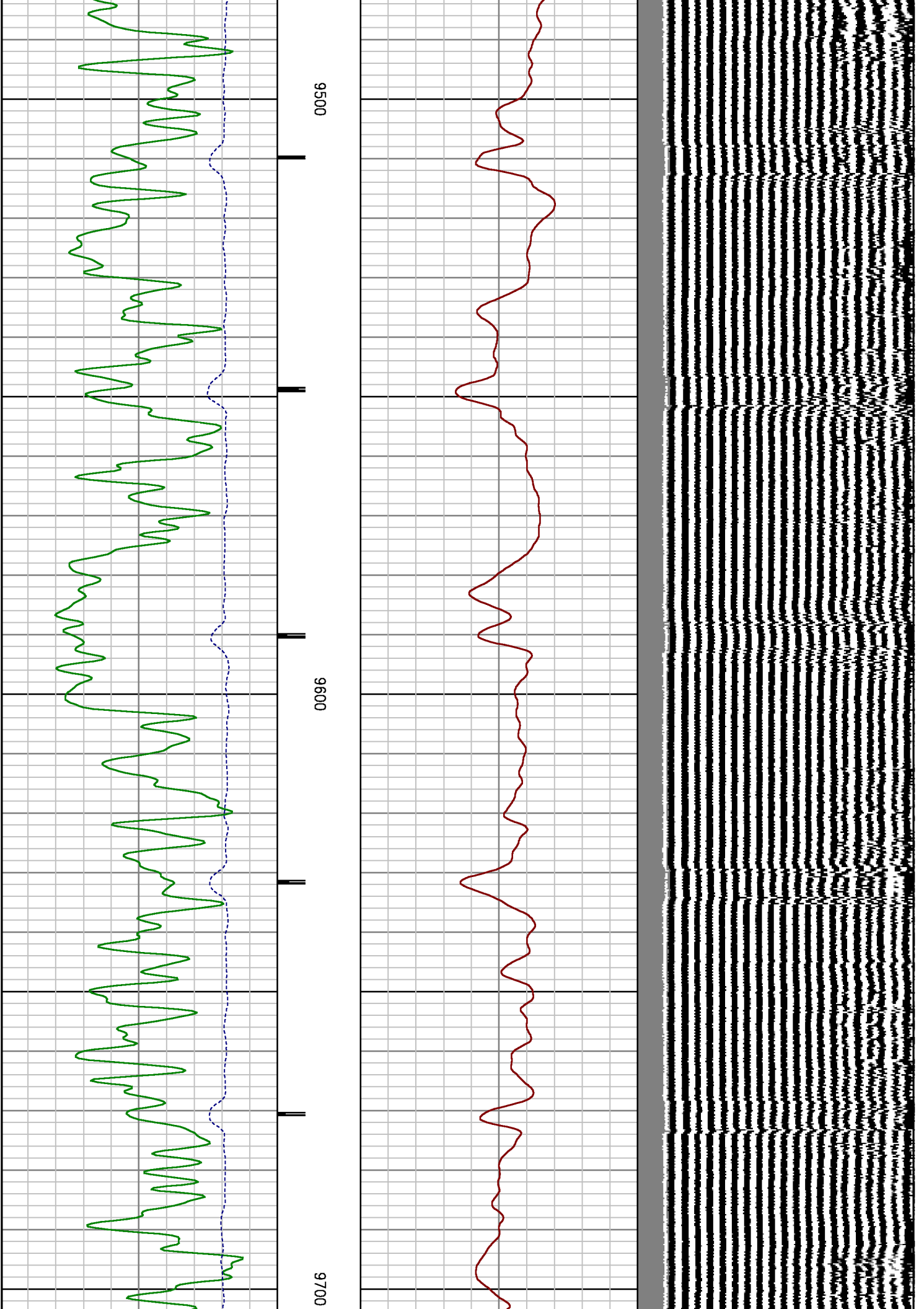


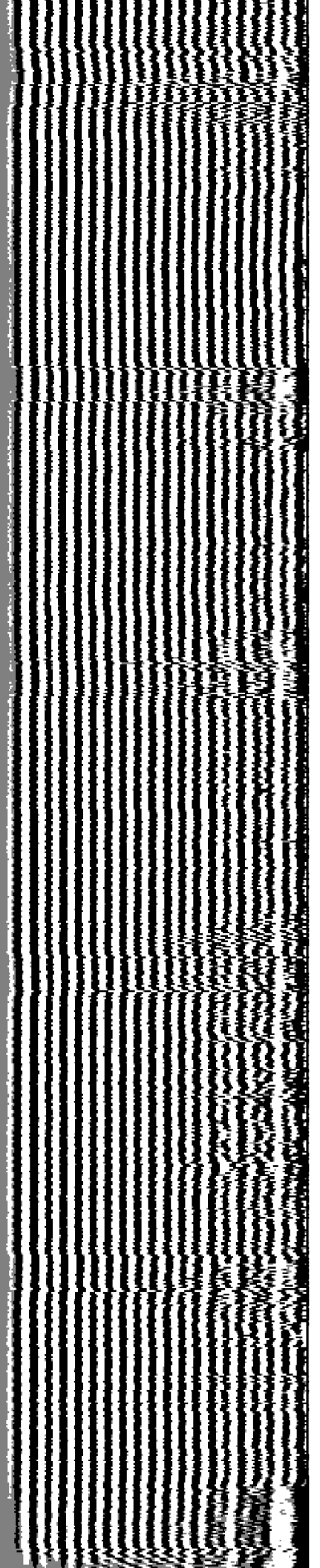
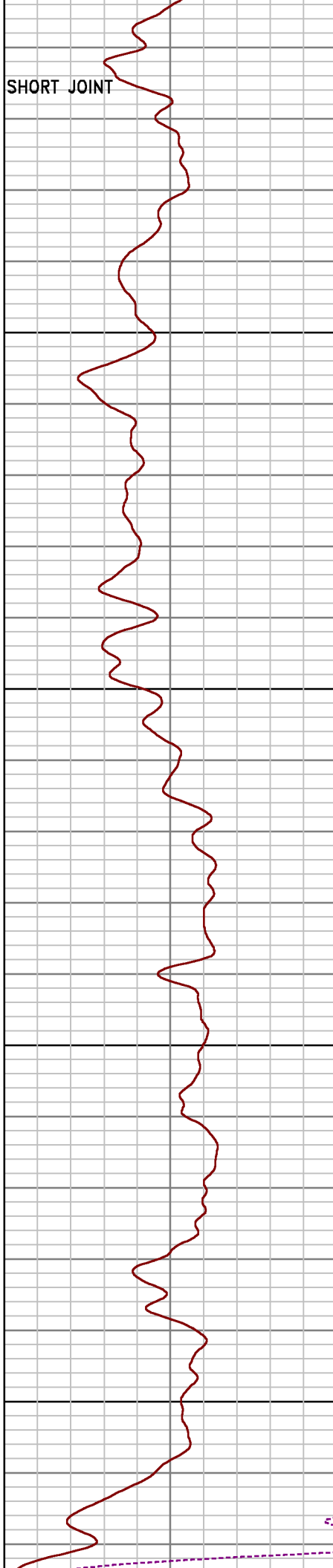
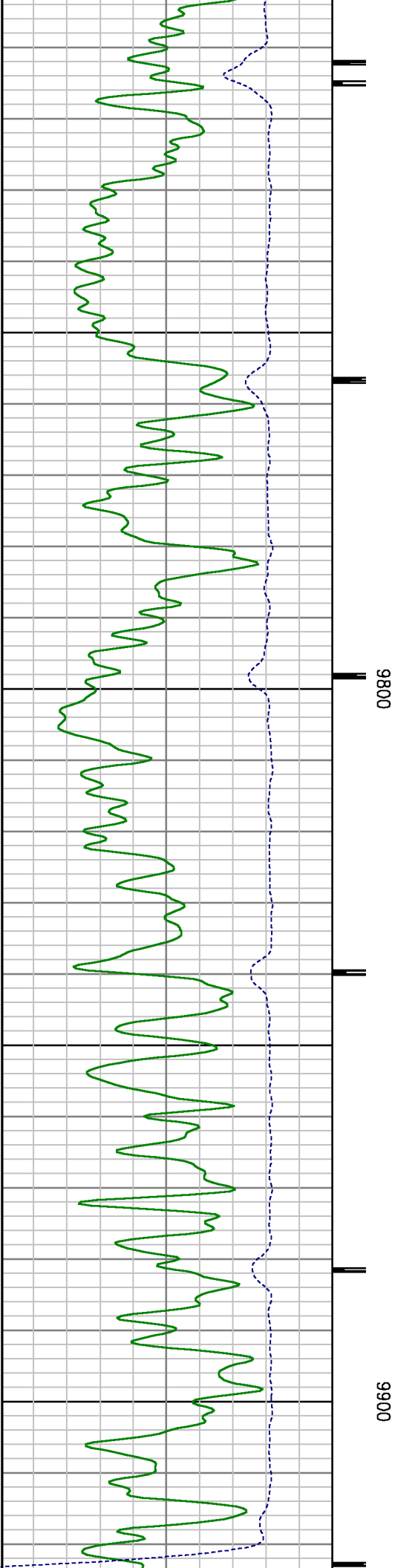


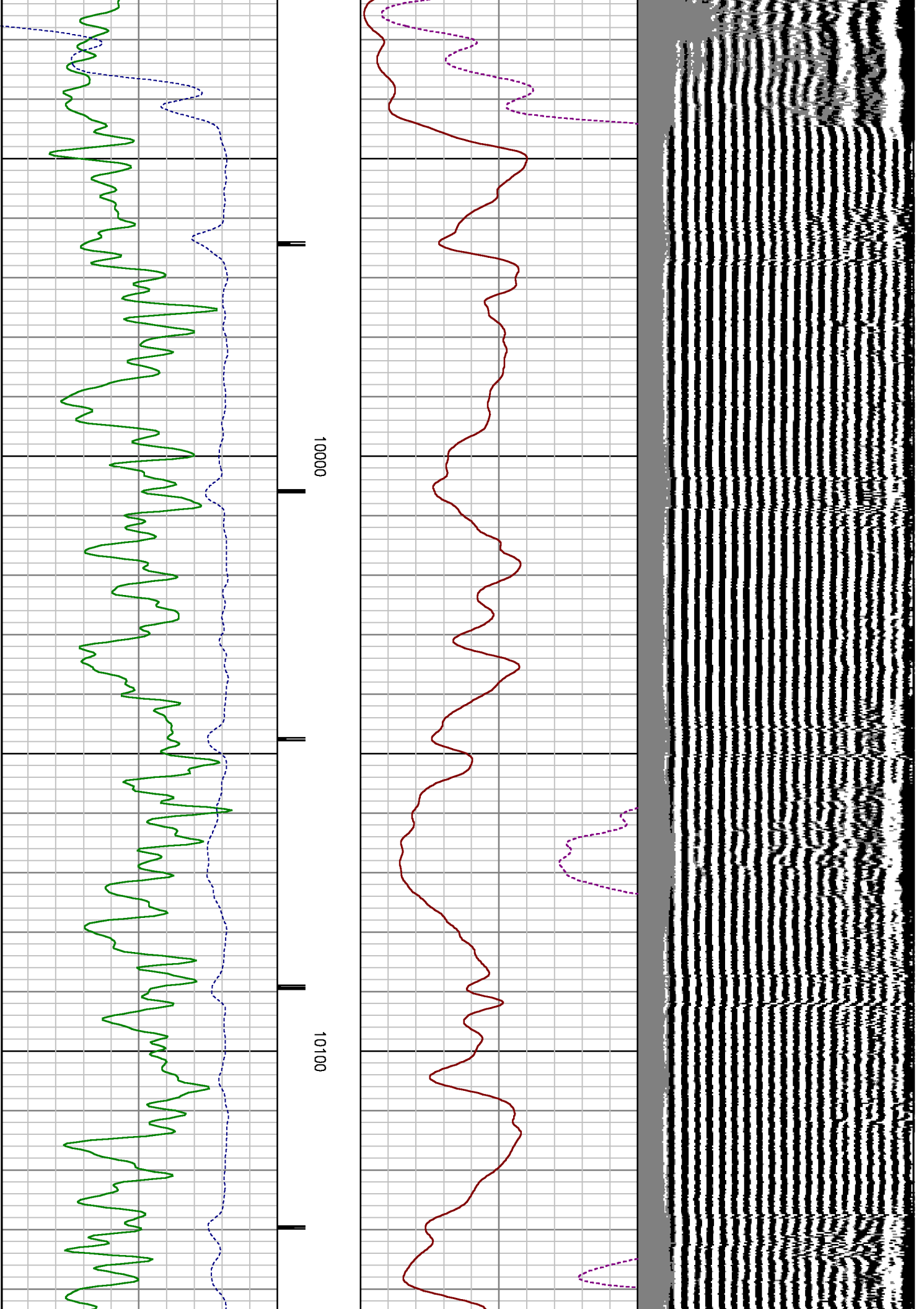


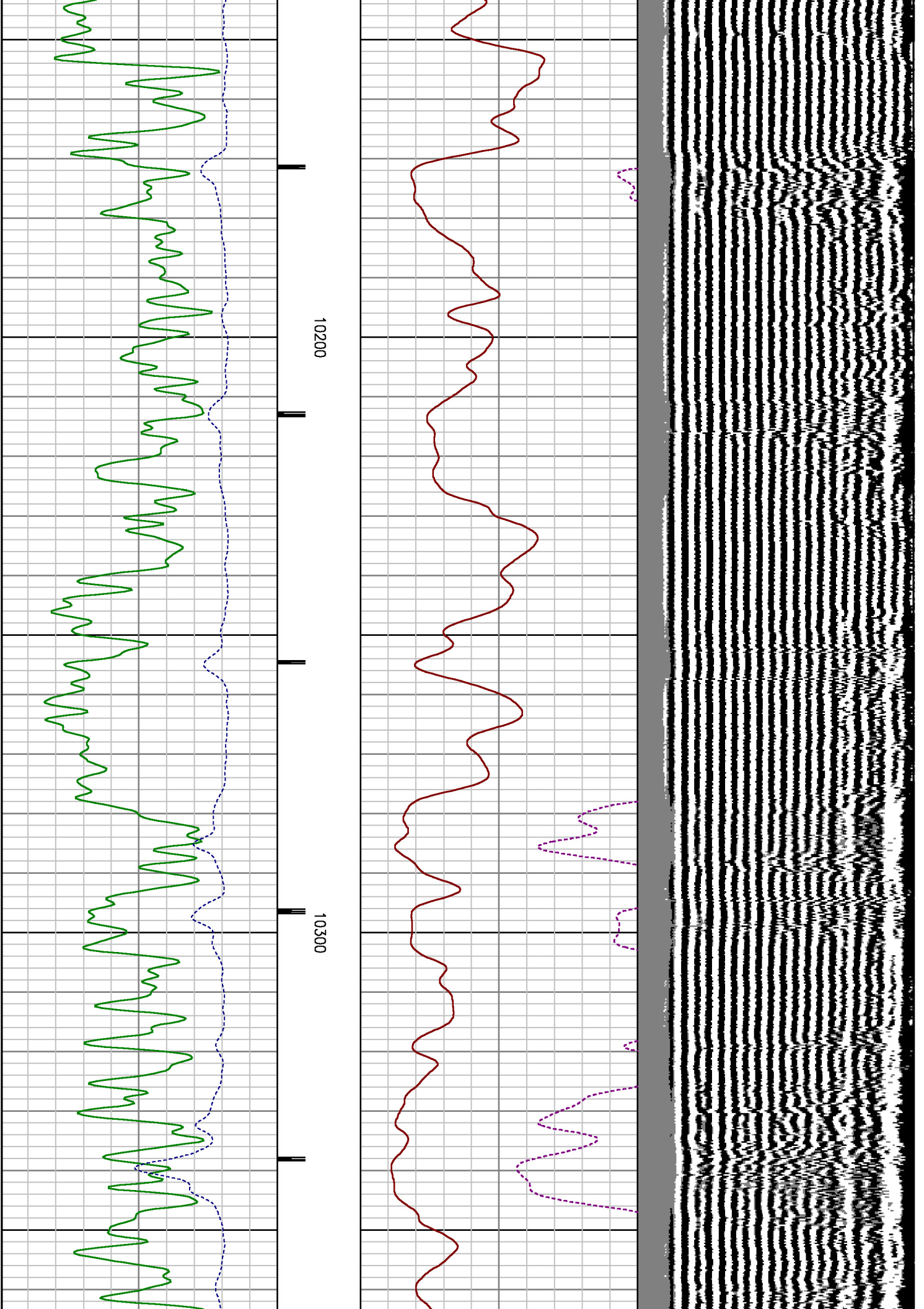


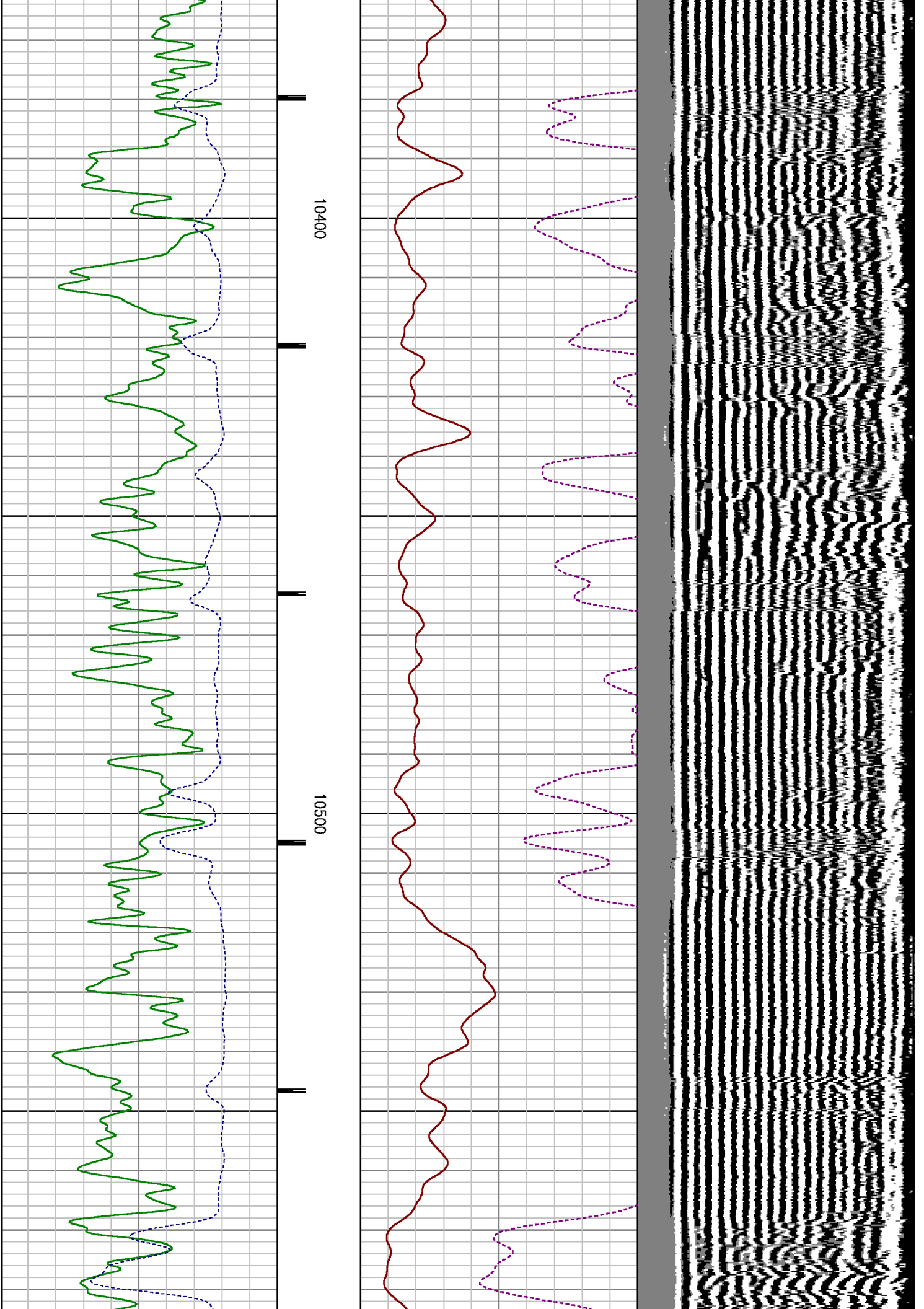


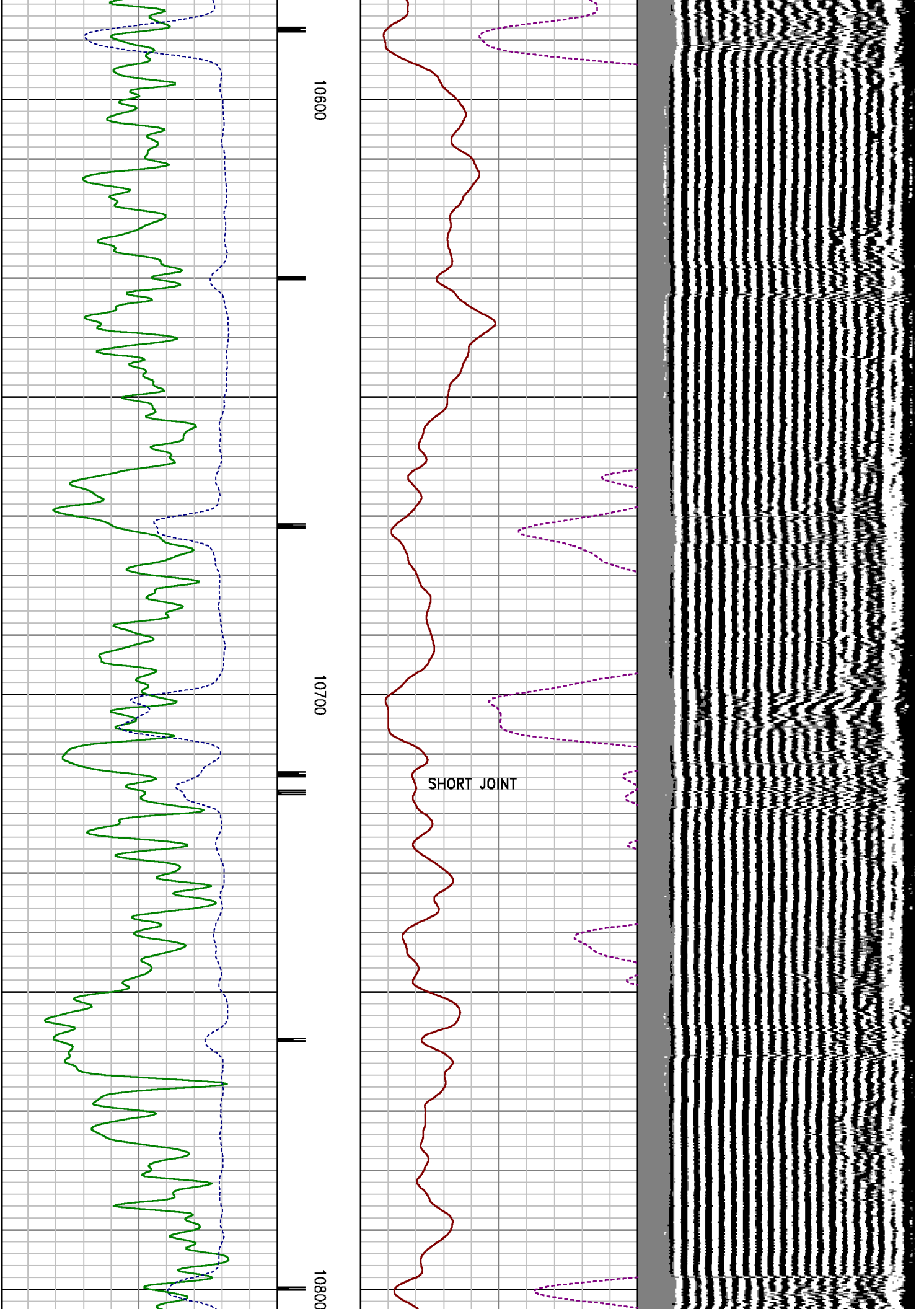


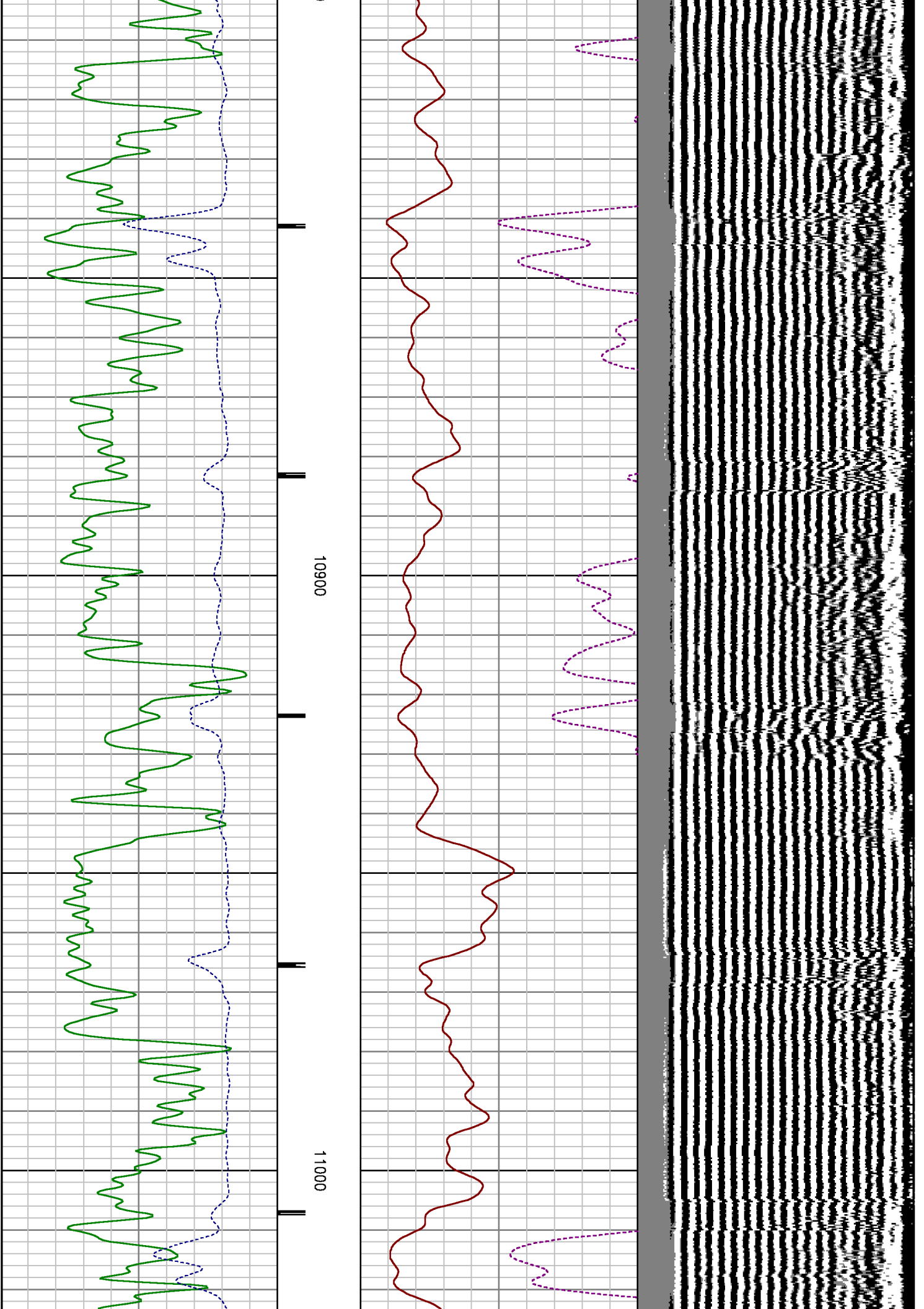


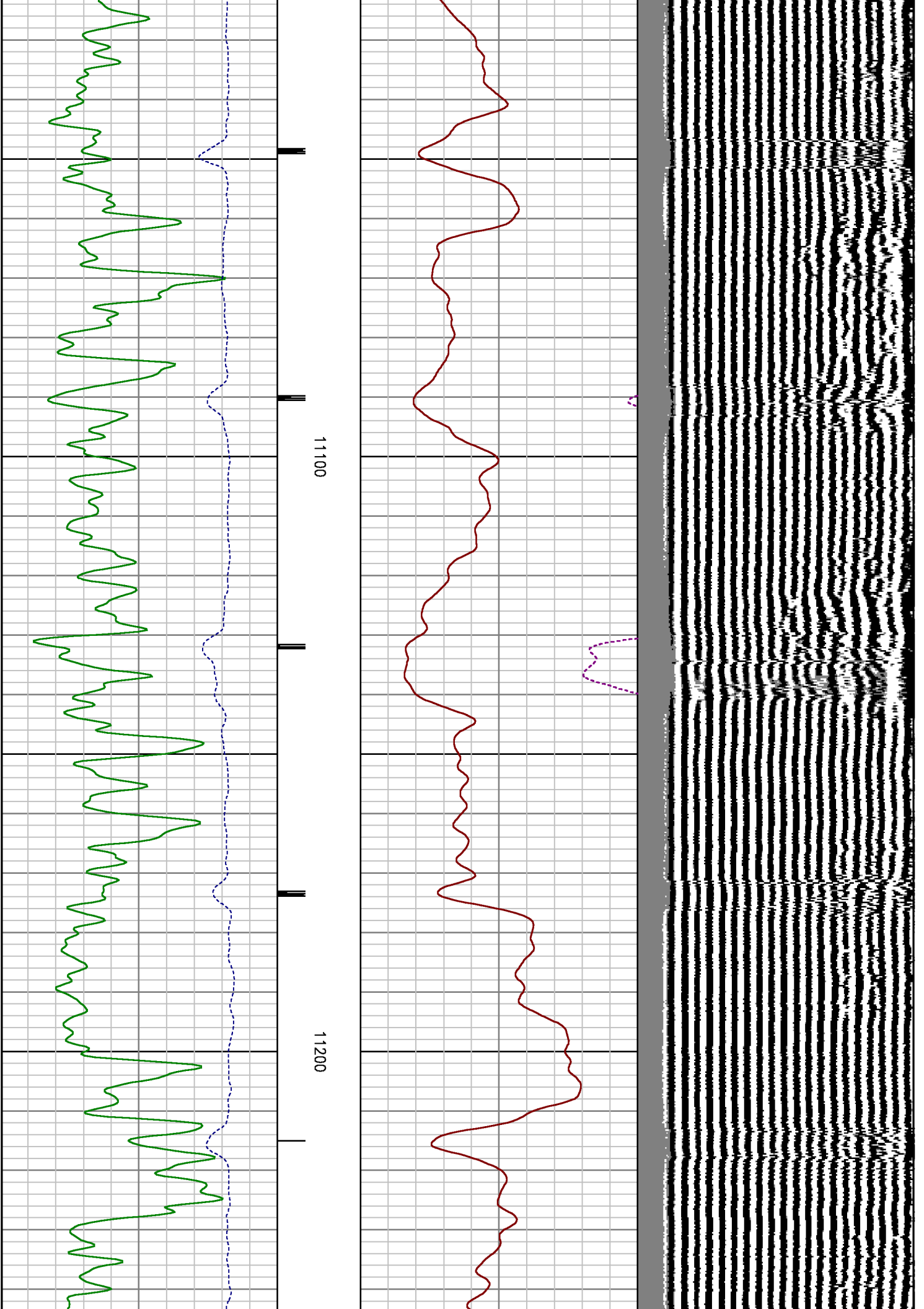


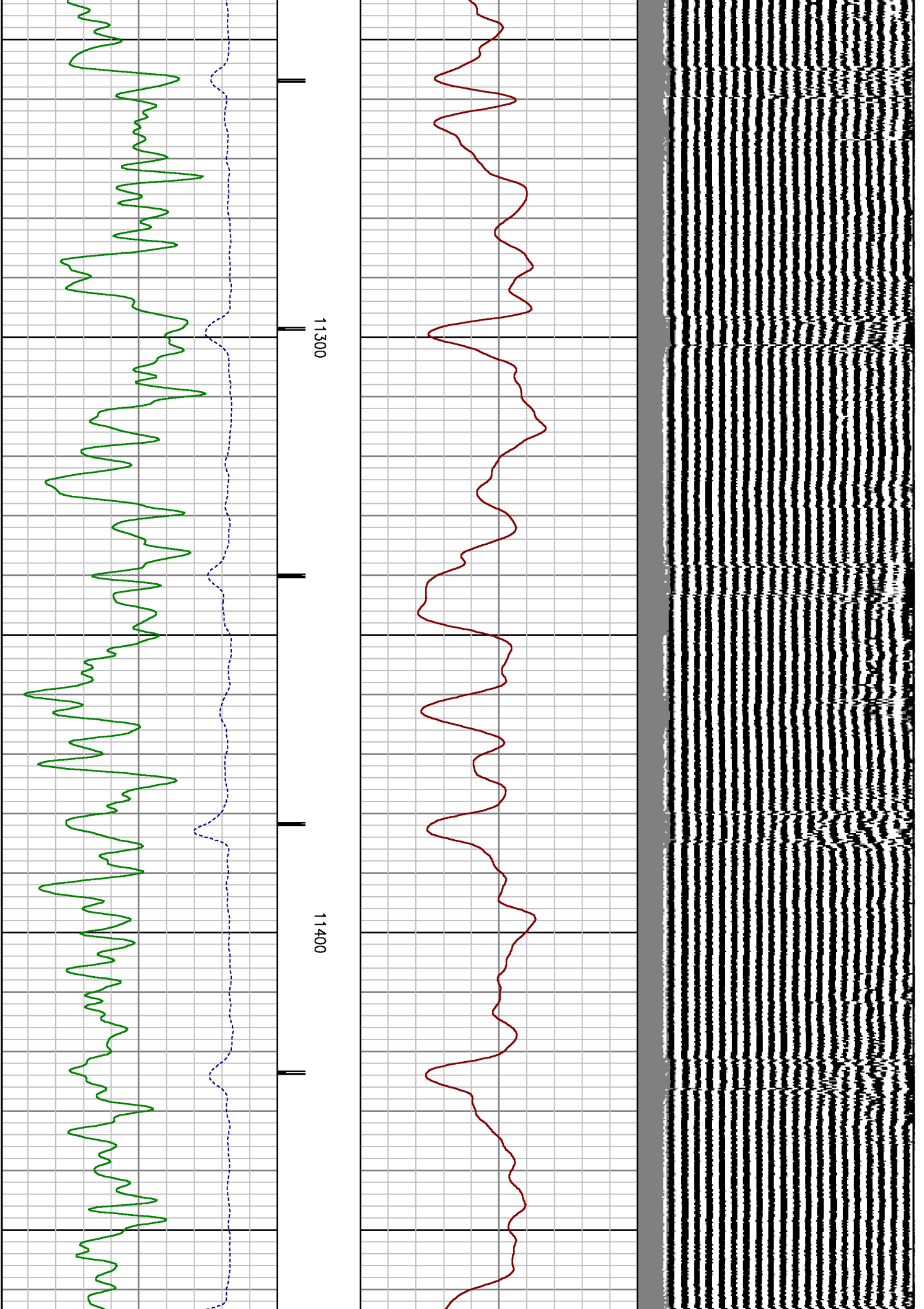


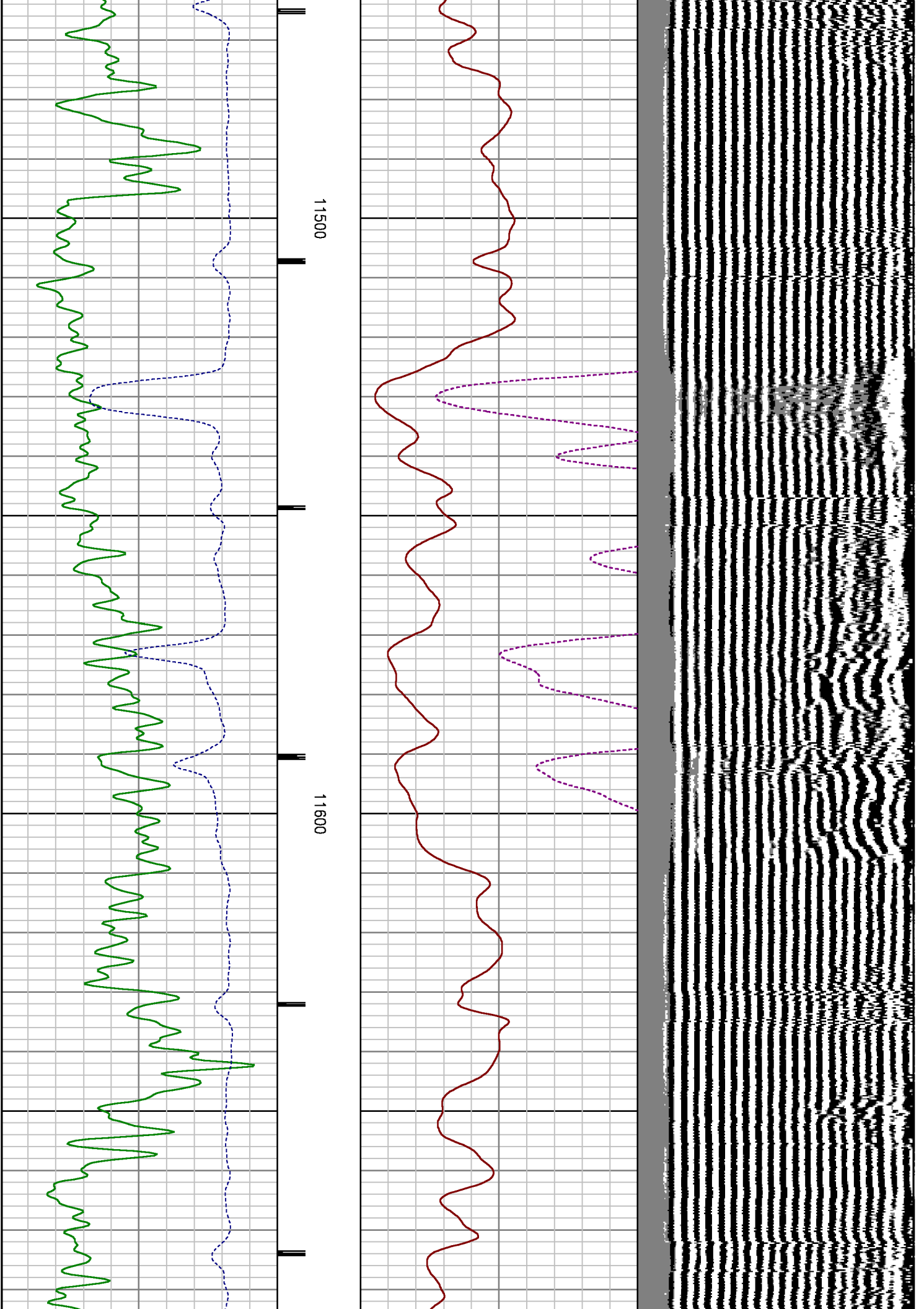


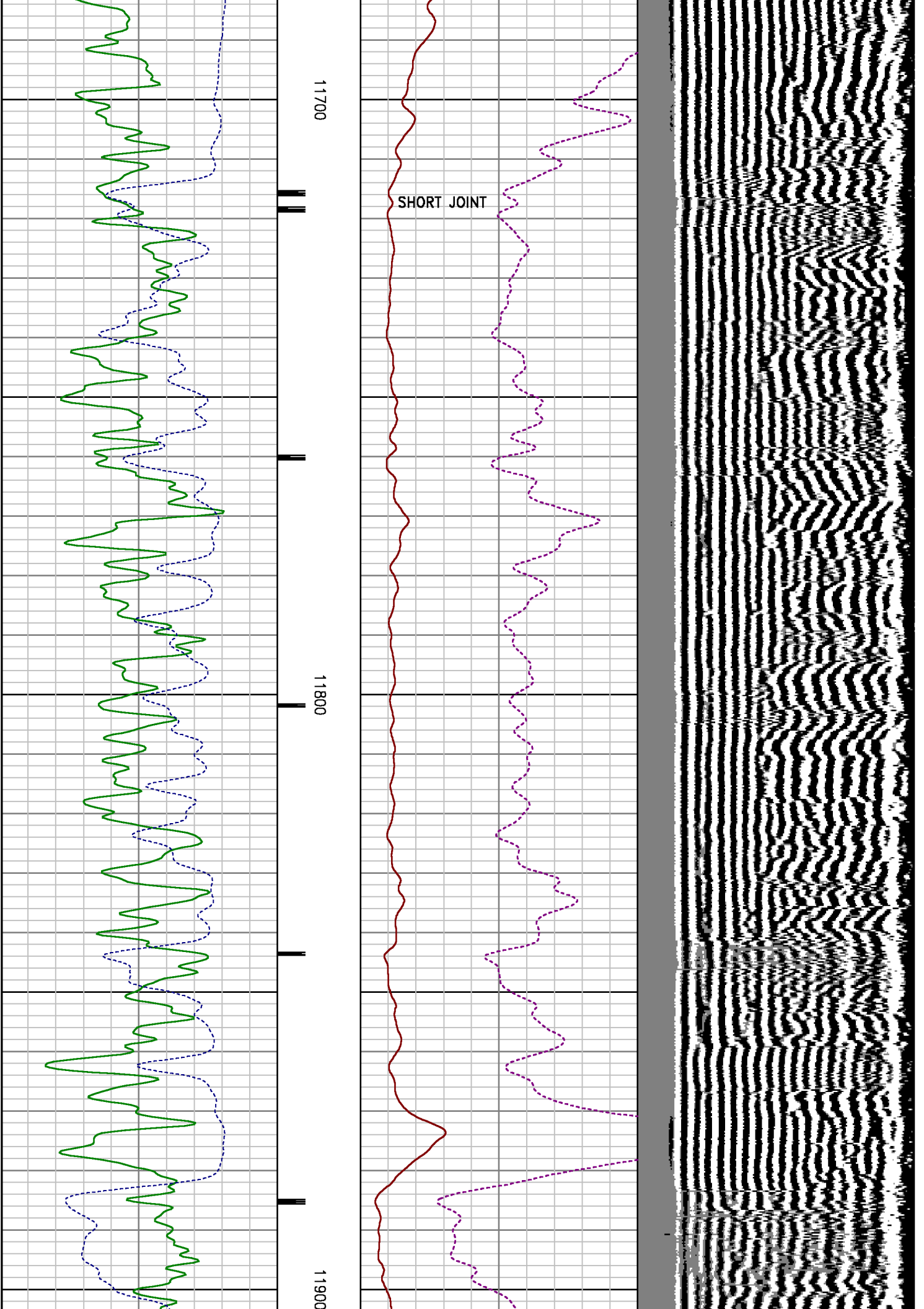


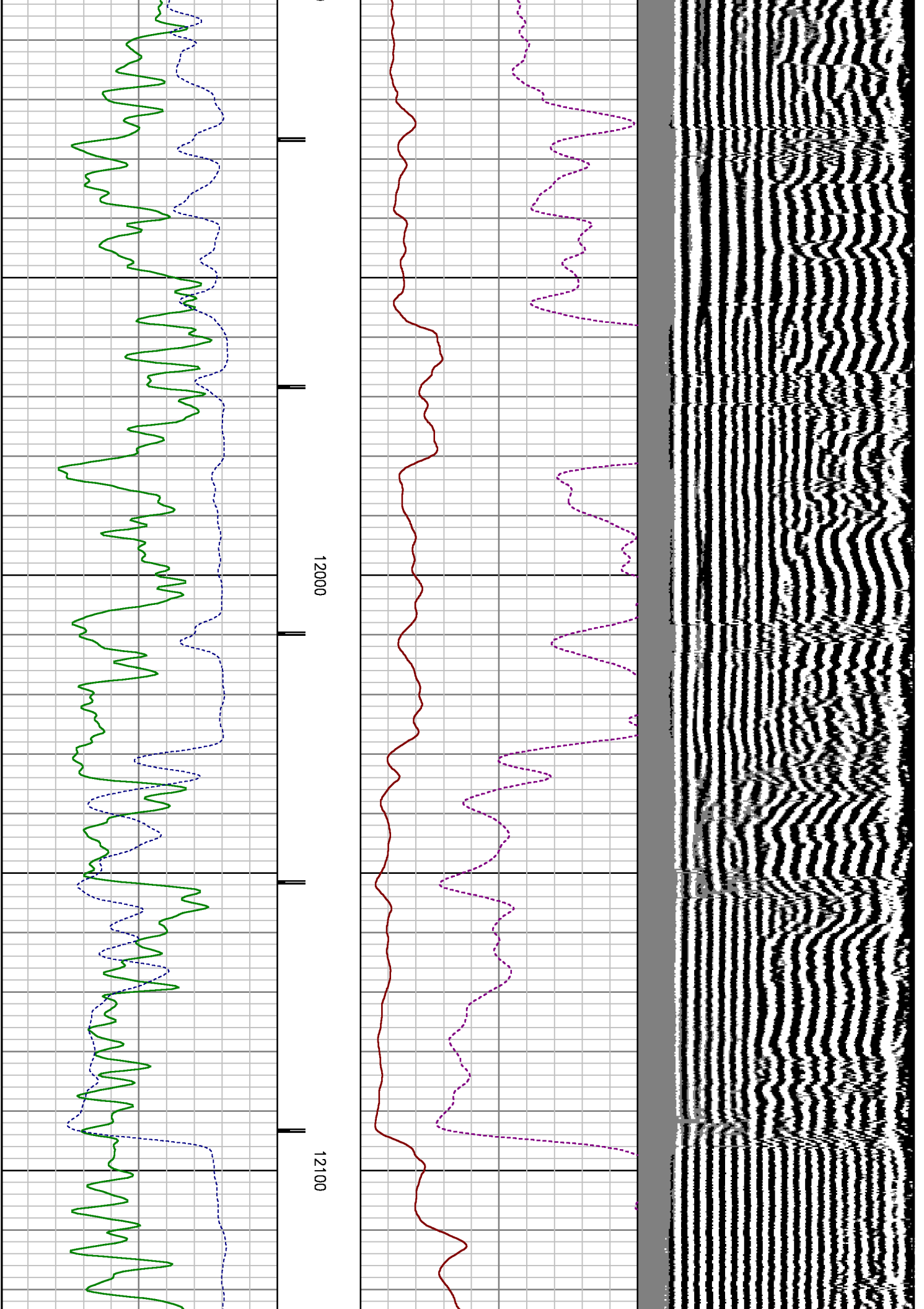


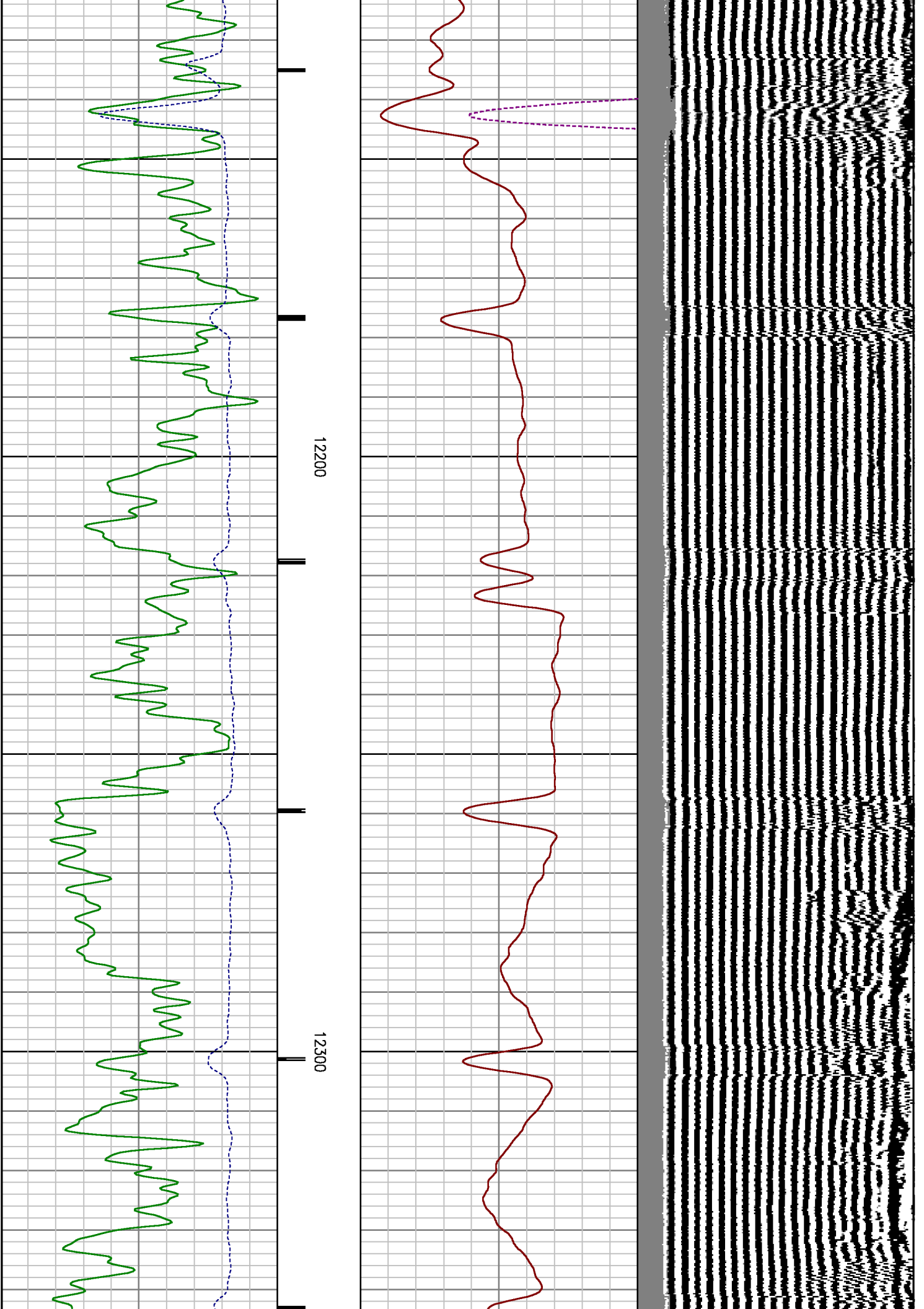


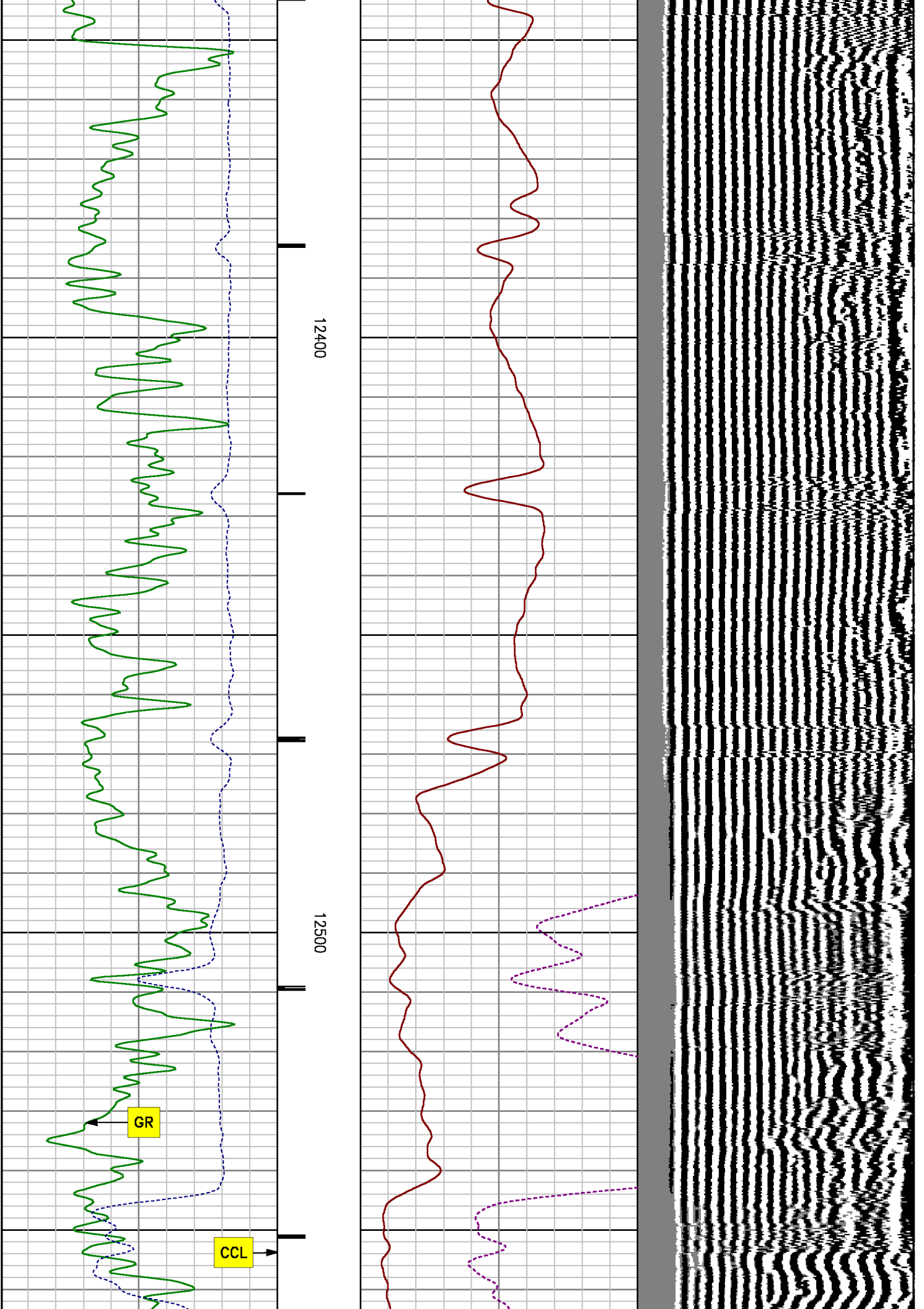


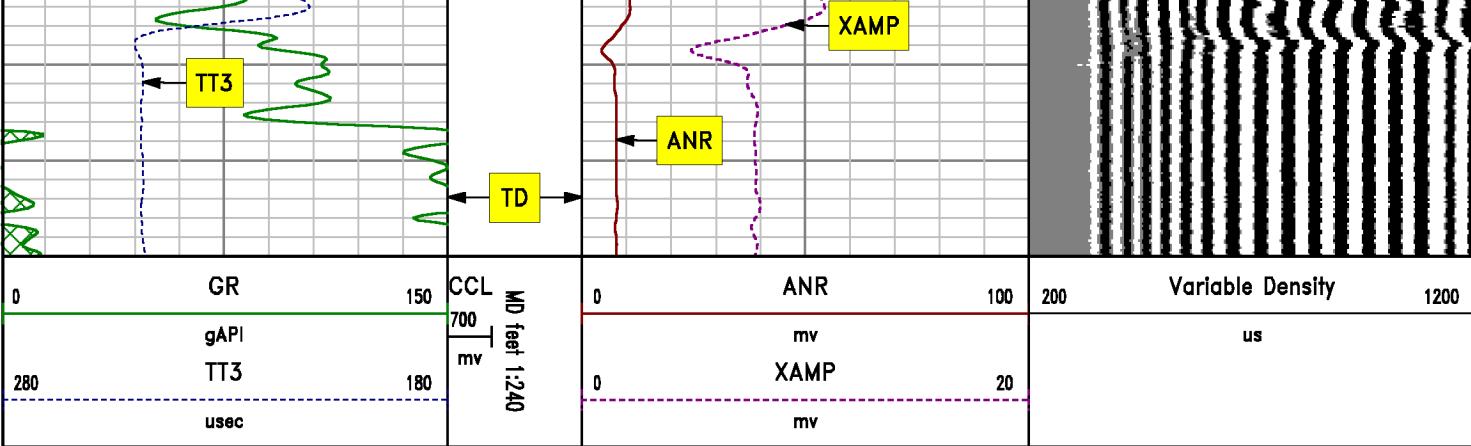












*MAIN SECTION
SECONDARY PRESENTATION*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	5499.750	12620.000
RAL	Amp Gate Start Near	197.754	usec	5499.750	12620.000
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RAL	Fluid Travel Time	200.000	usec/ft	5499.750	12619.793

DEPTH OFFSETS
(for Acquired Curves)

SERIES

DEPTH OFFSET

ACQUIRED CURVES

1426XA	-15.360	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	-14.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

Created by : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

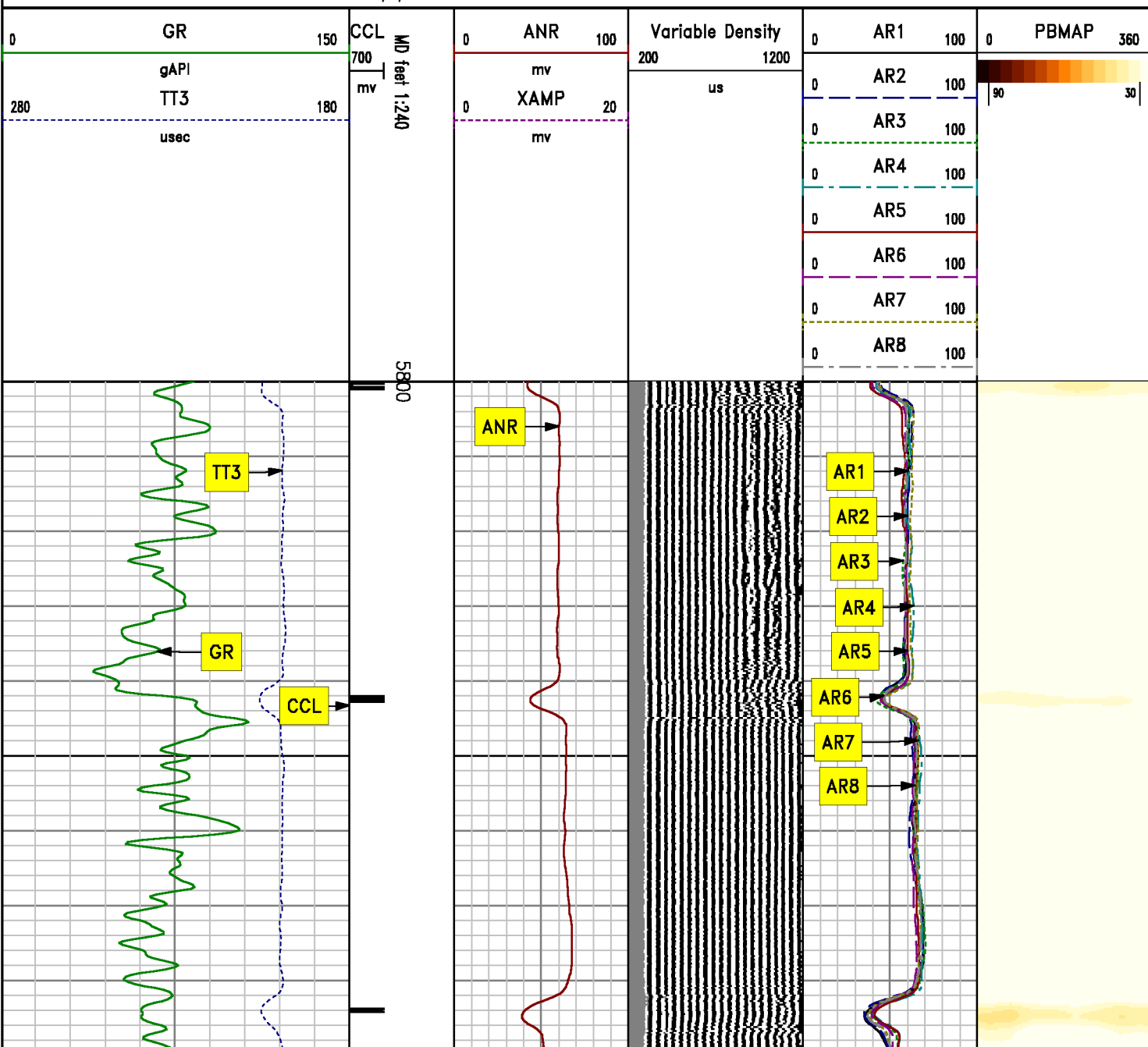
Well : PCU 197-34B10

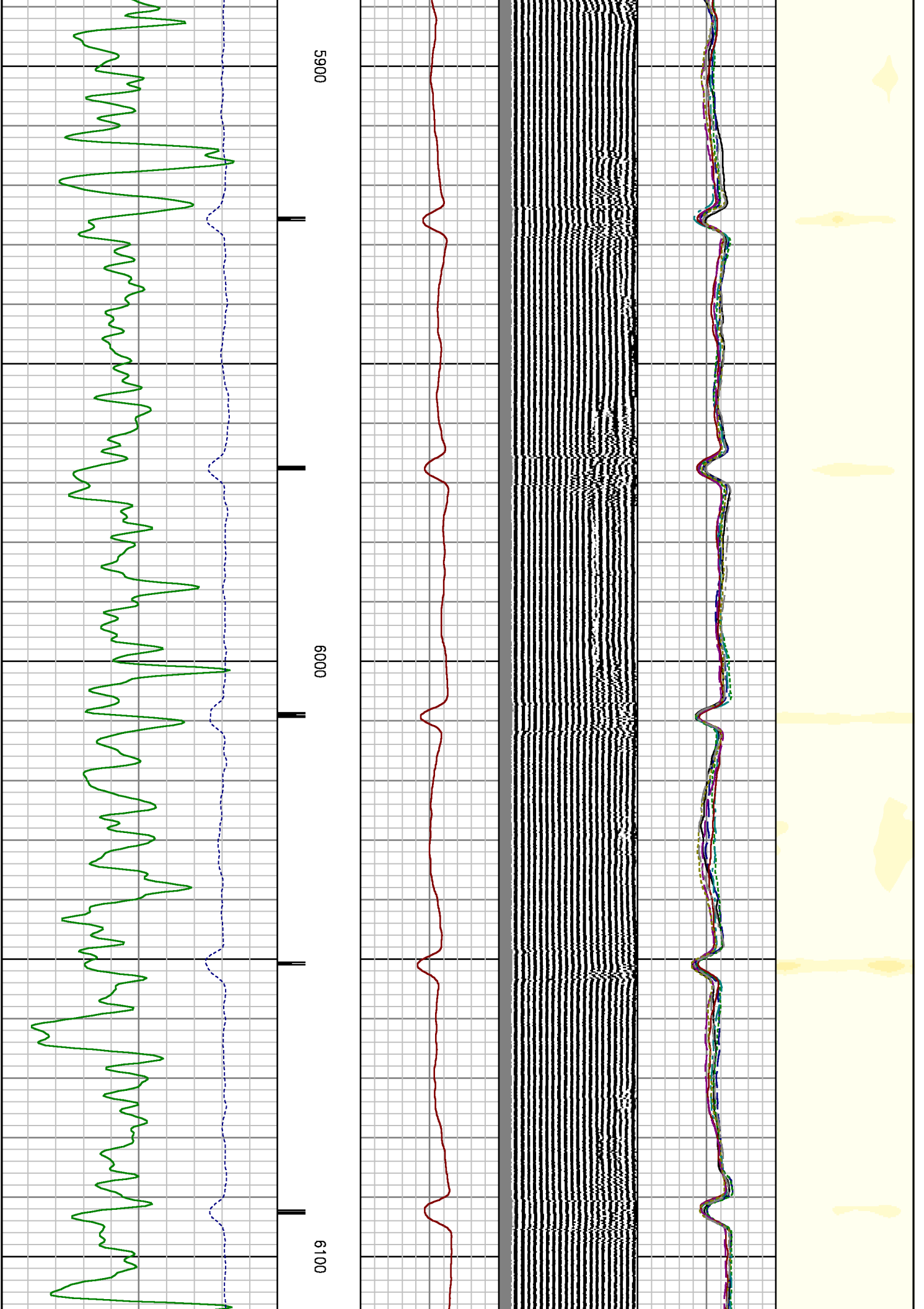
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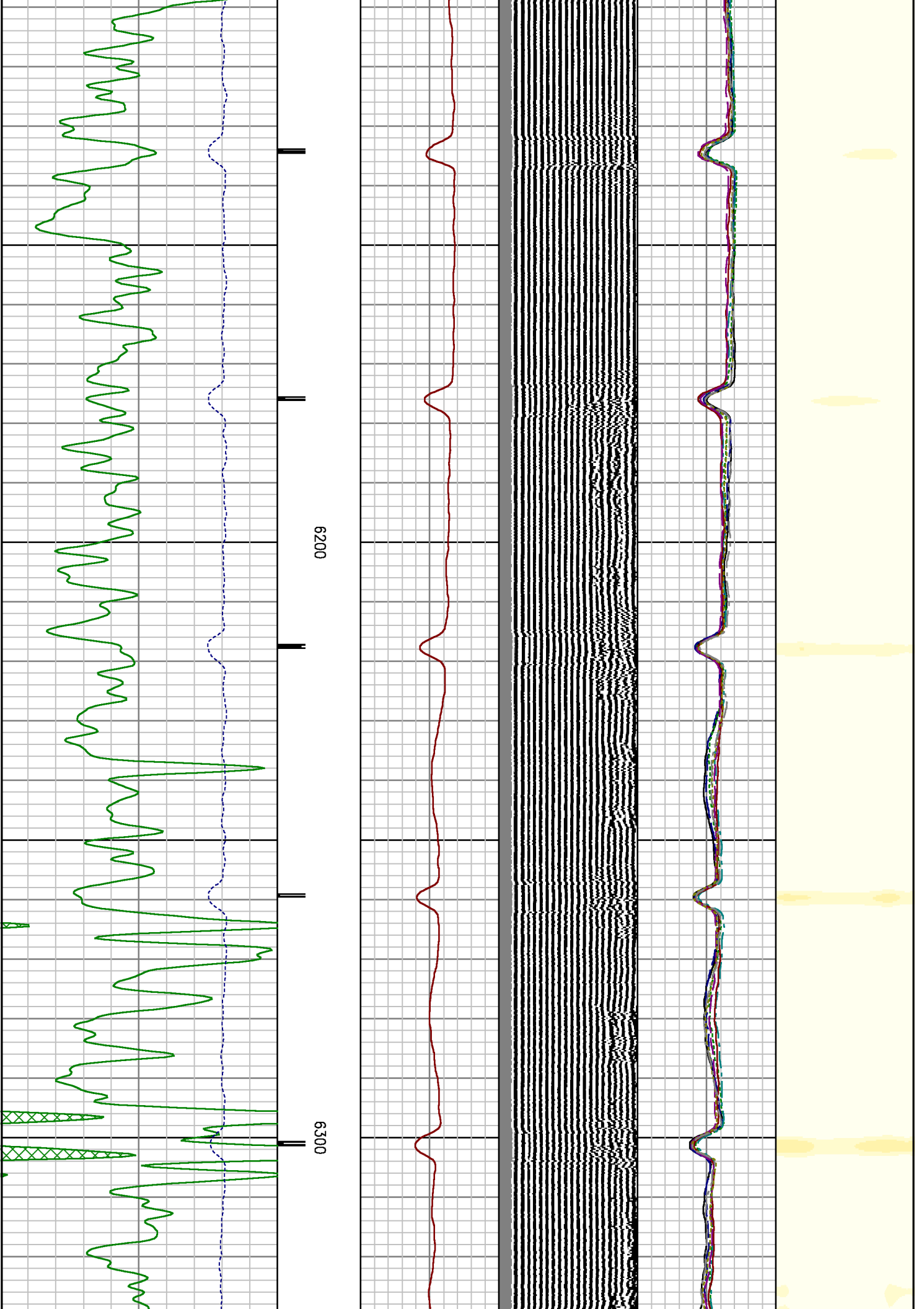
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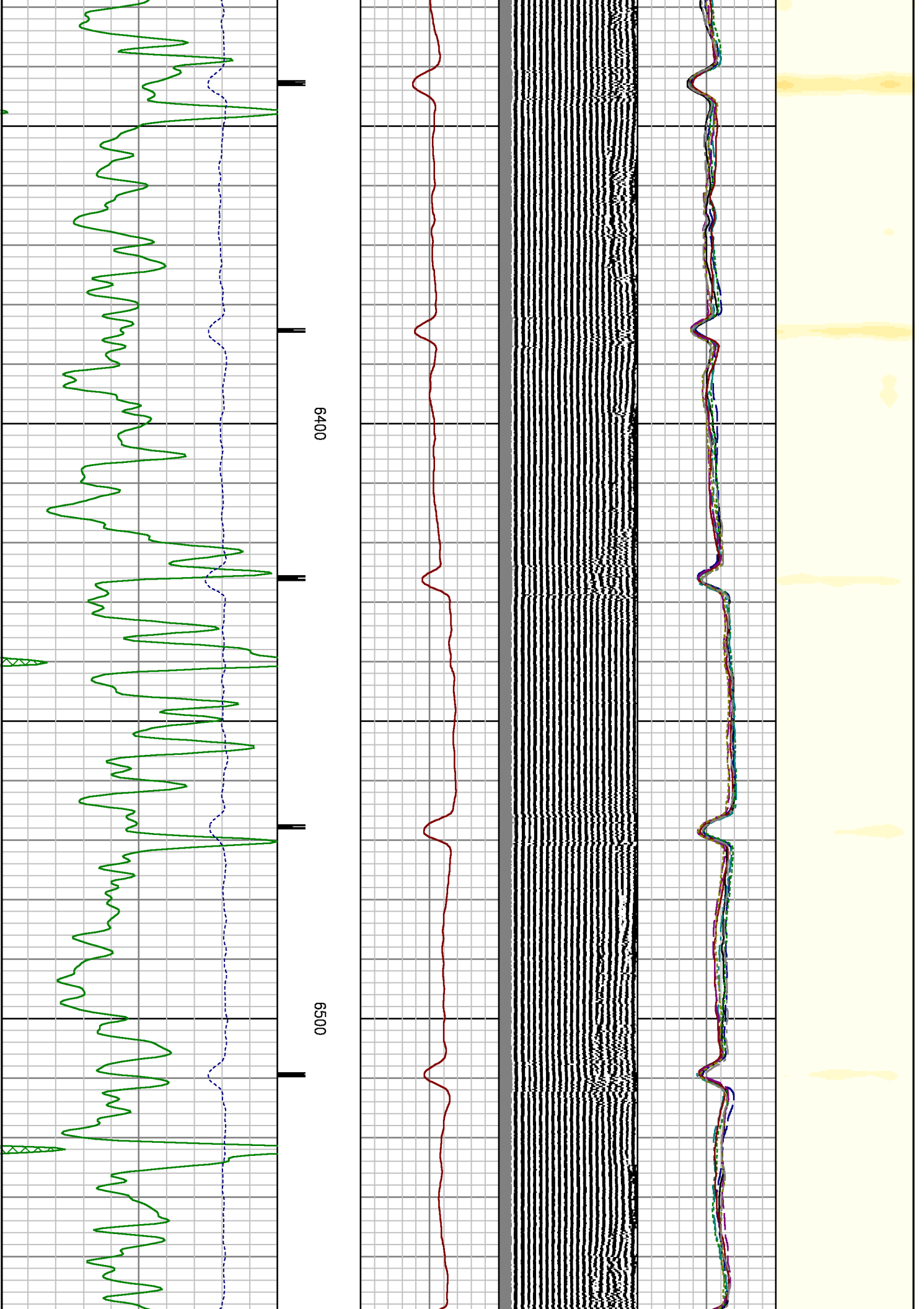
Interval : 5800.00 - 12590.00 feet UP

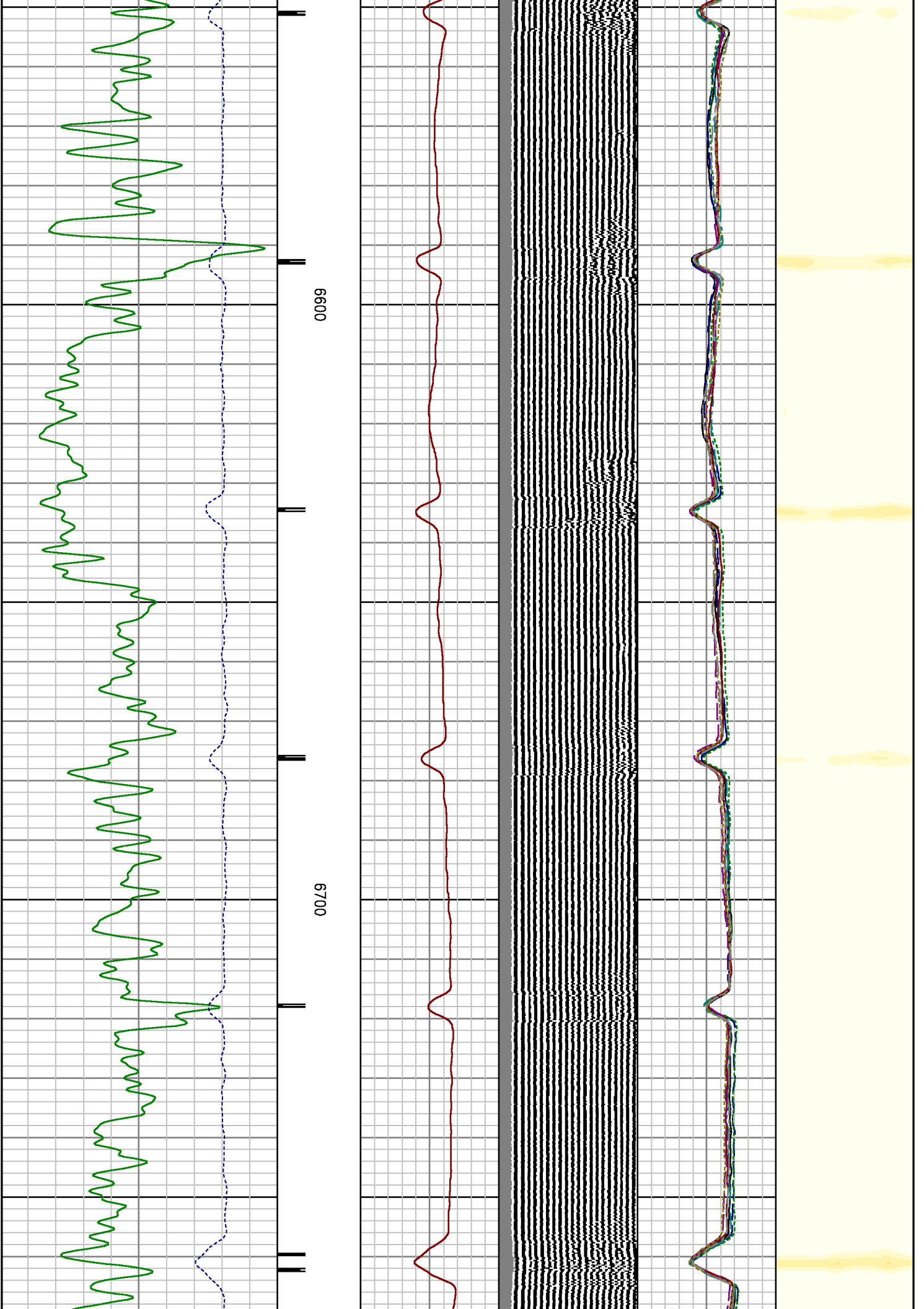
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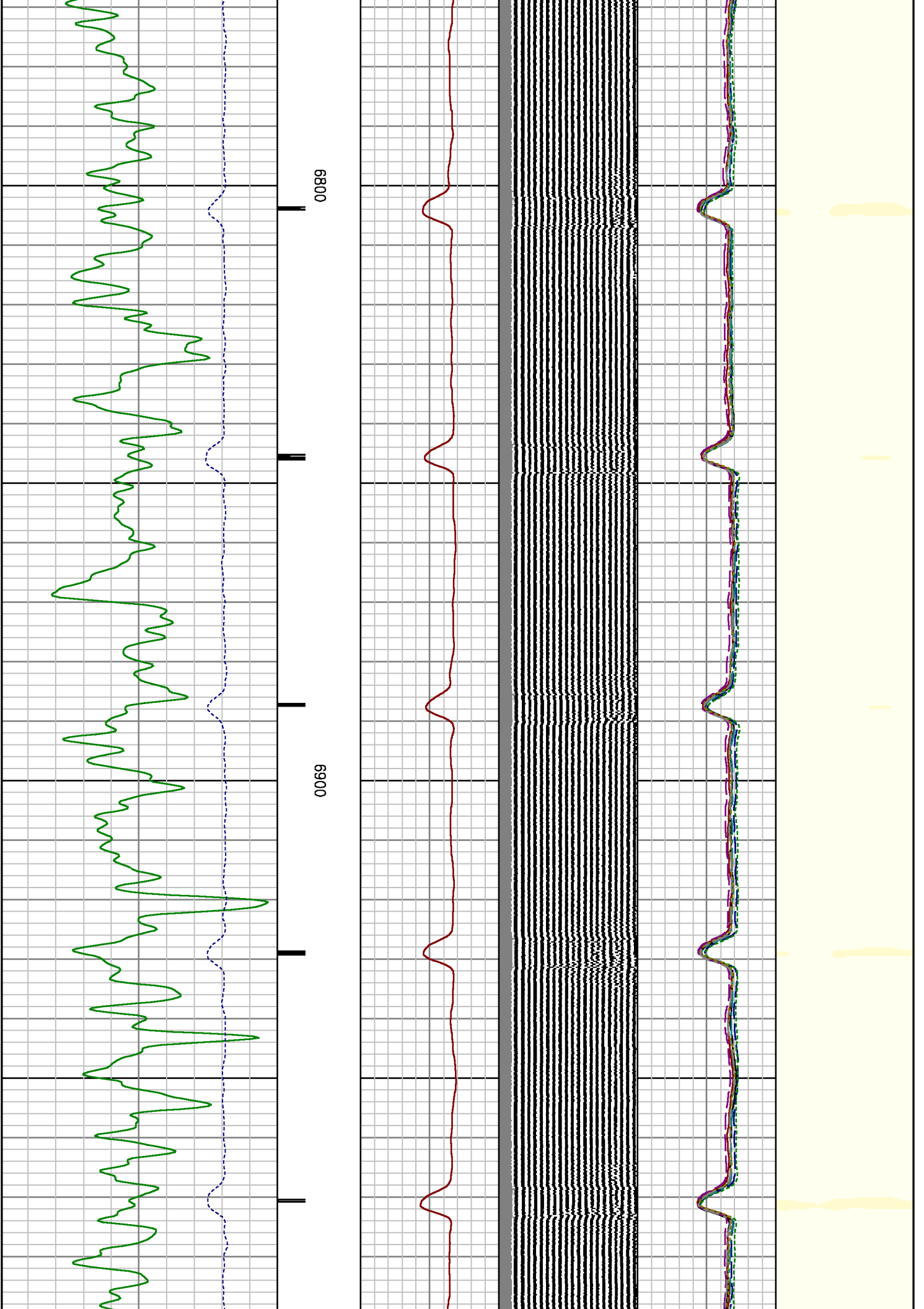


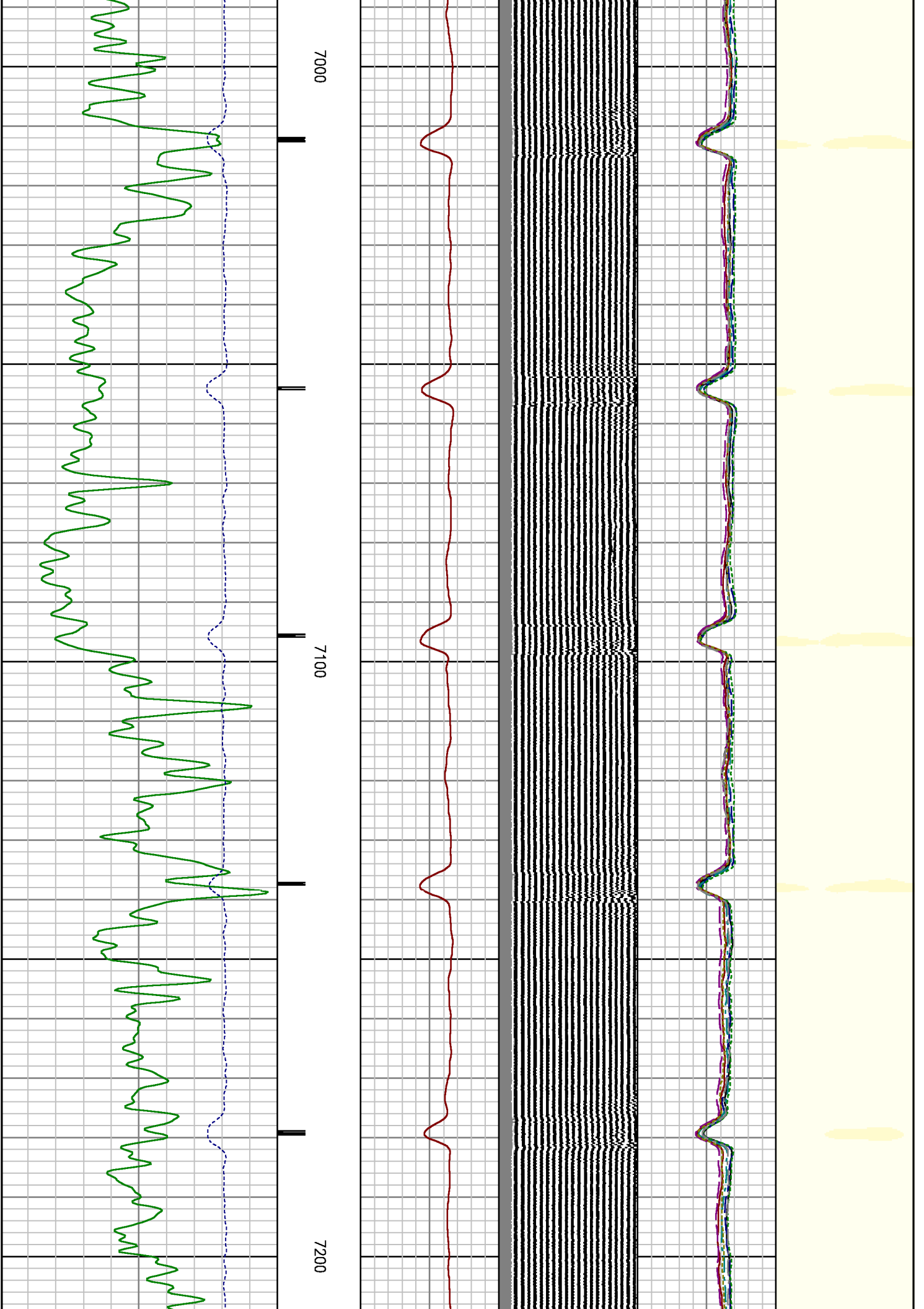


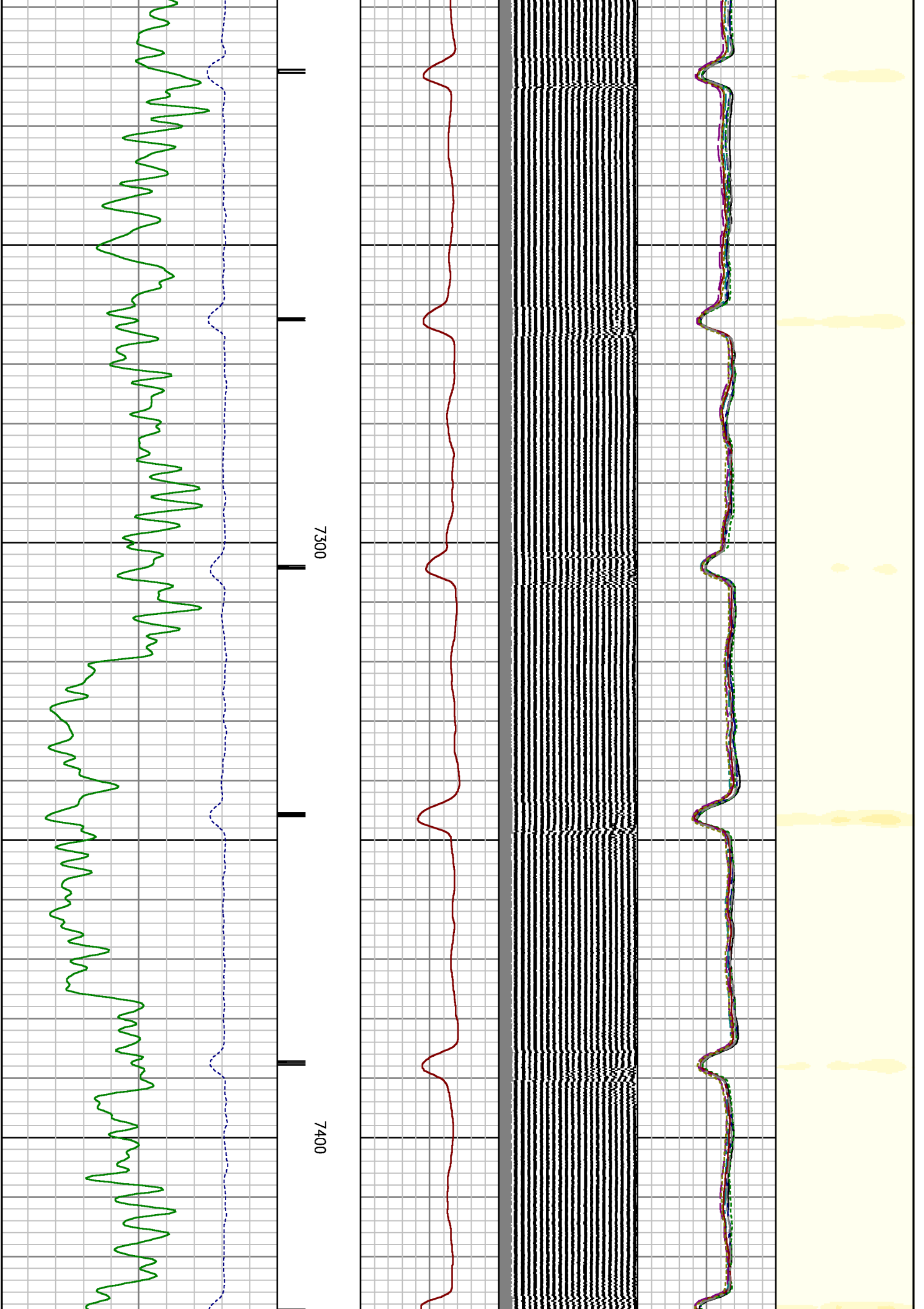


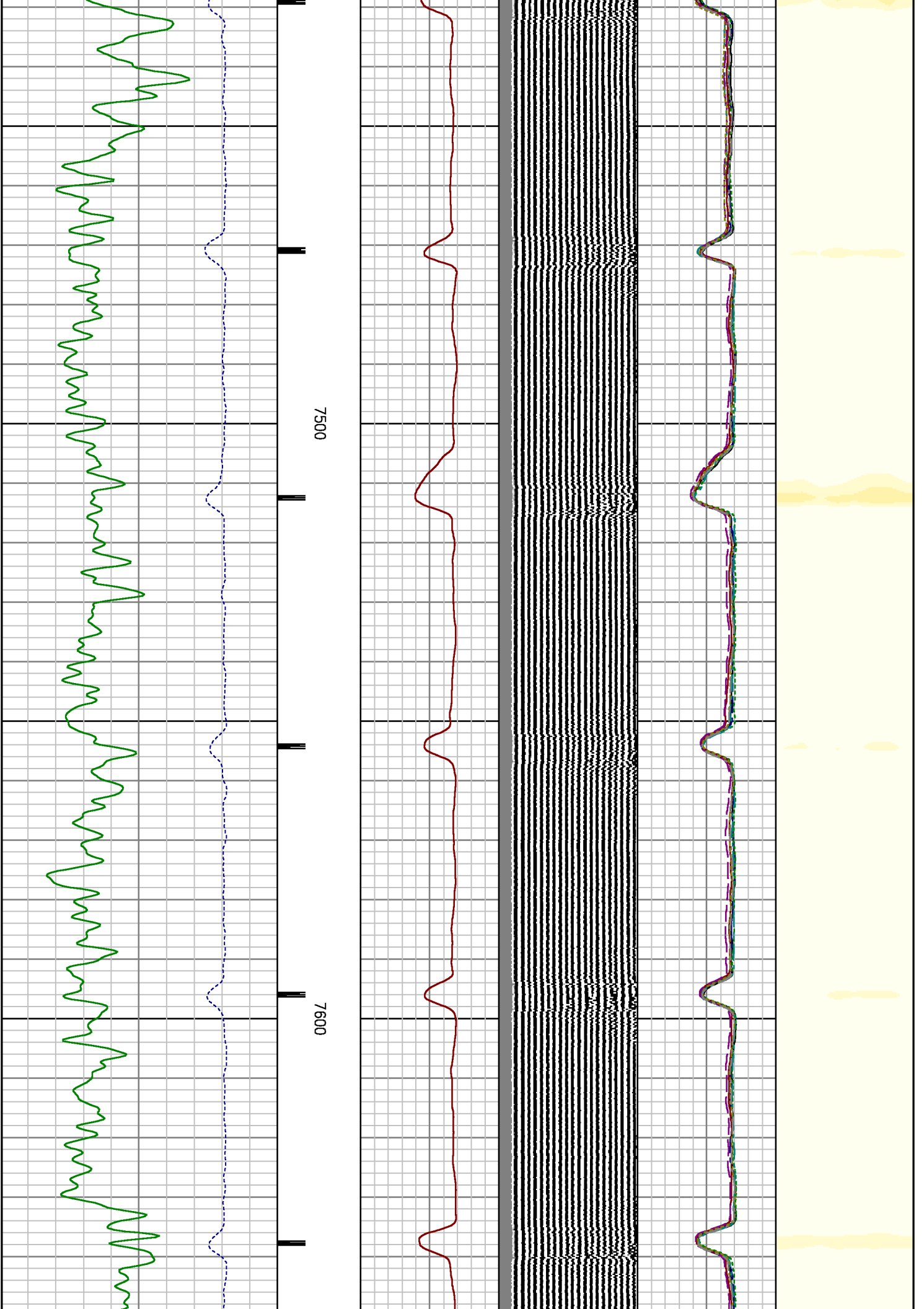


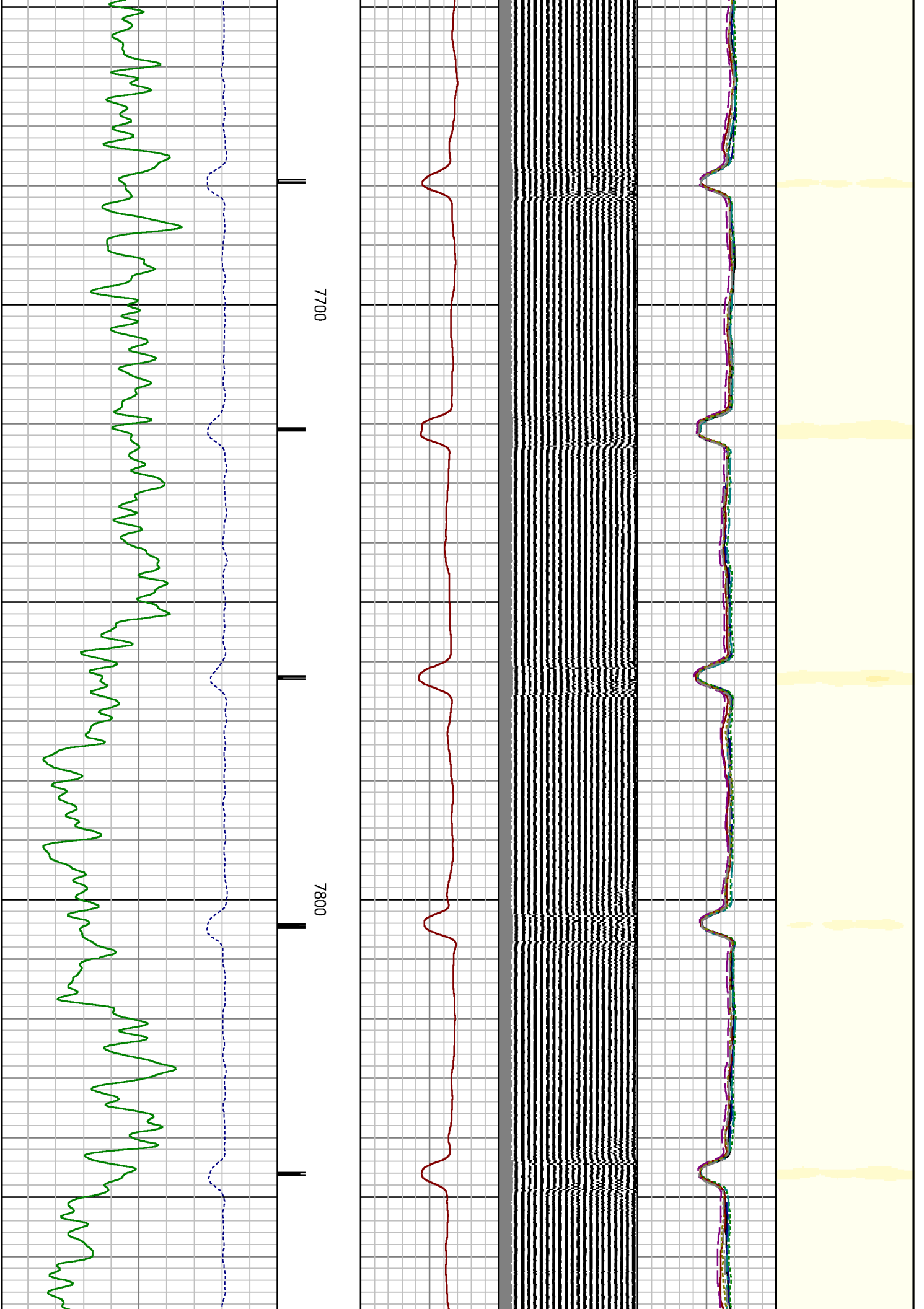


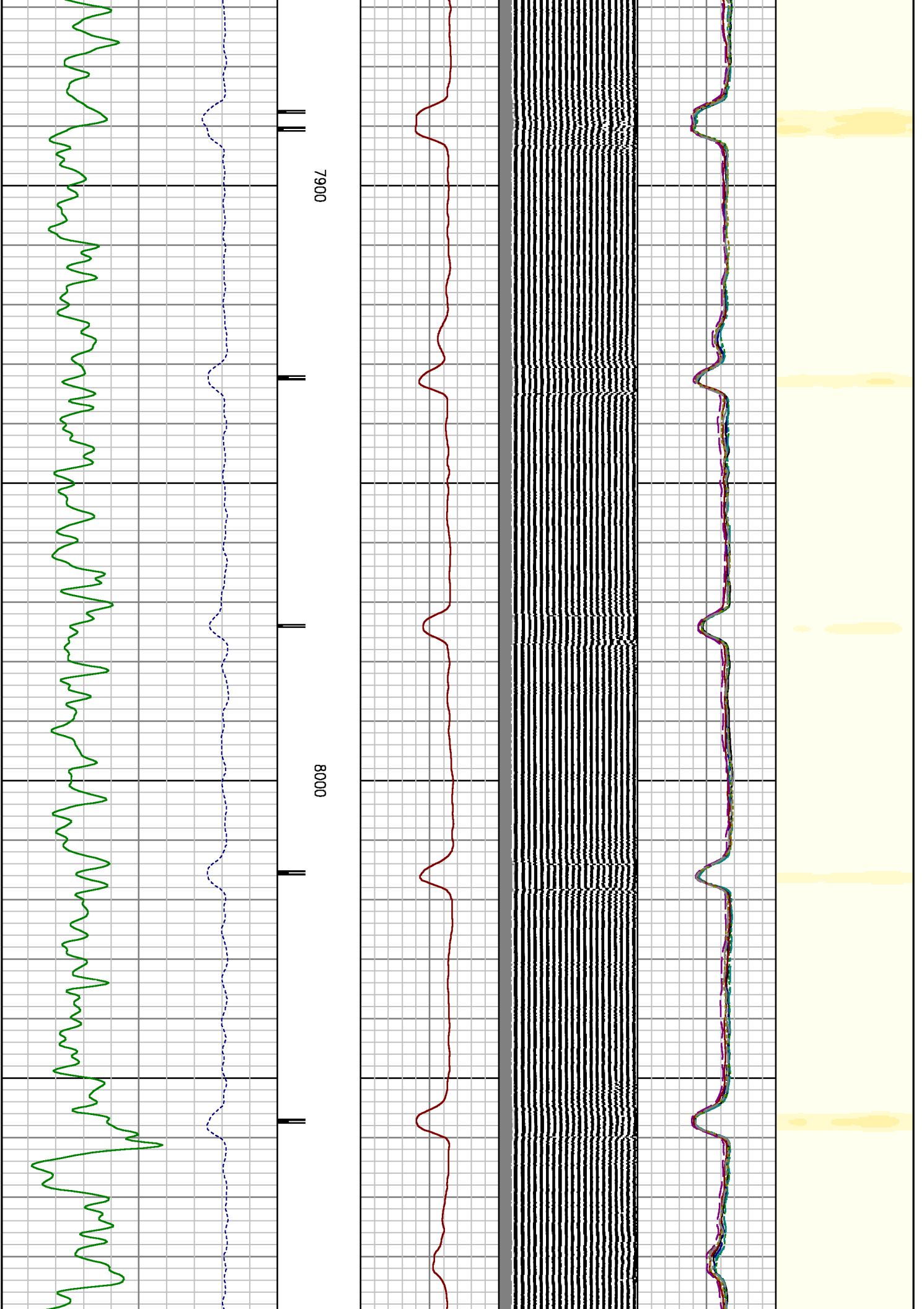


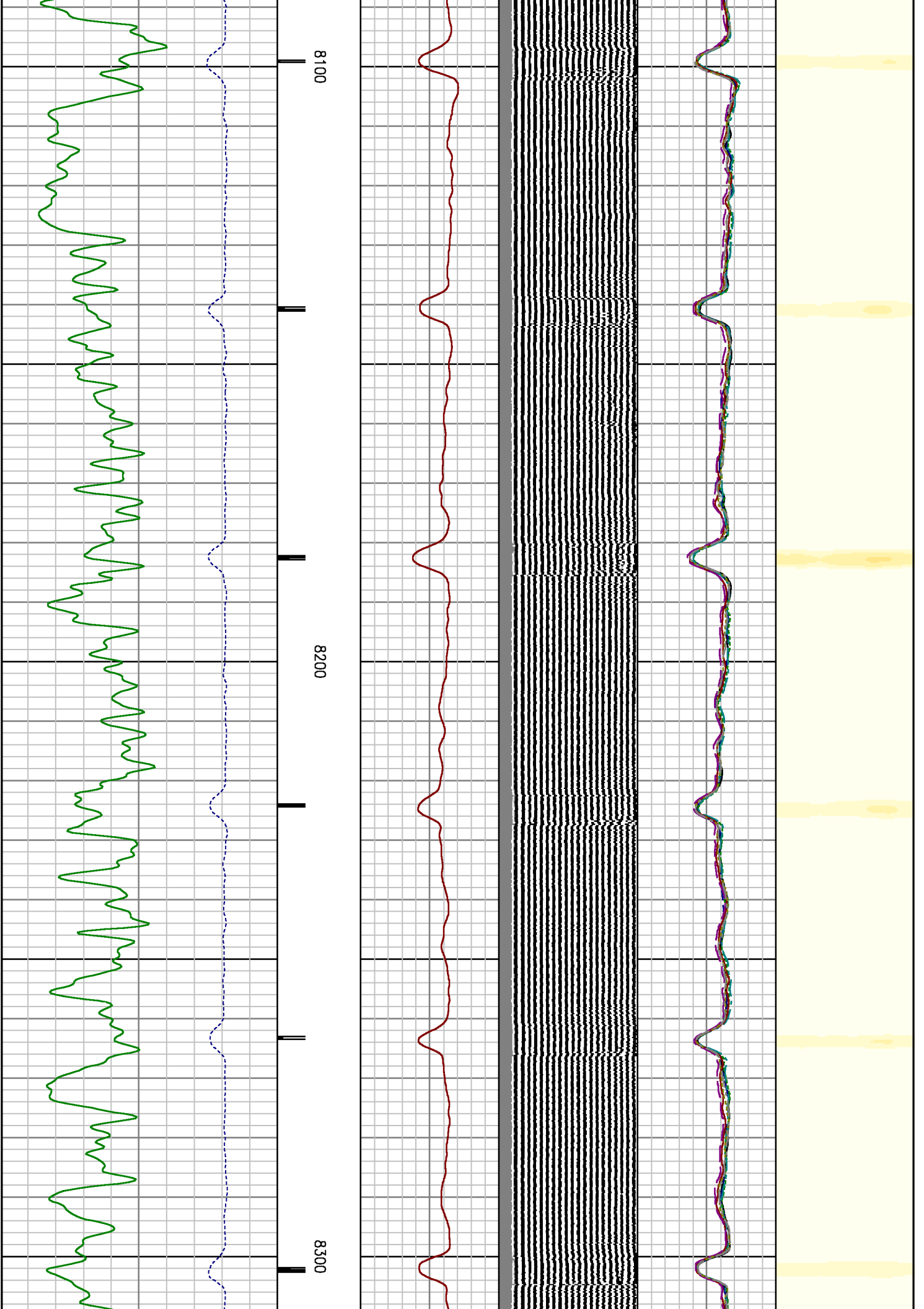


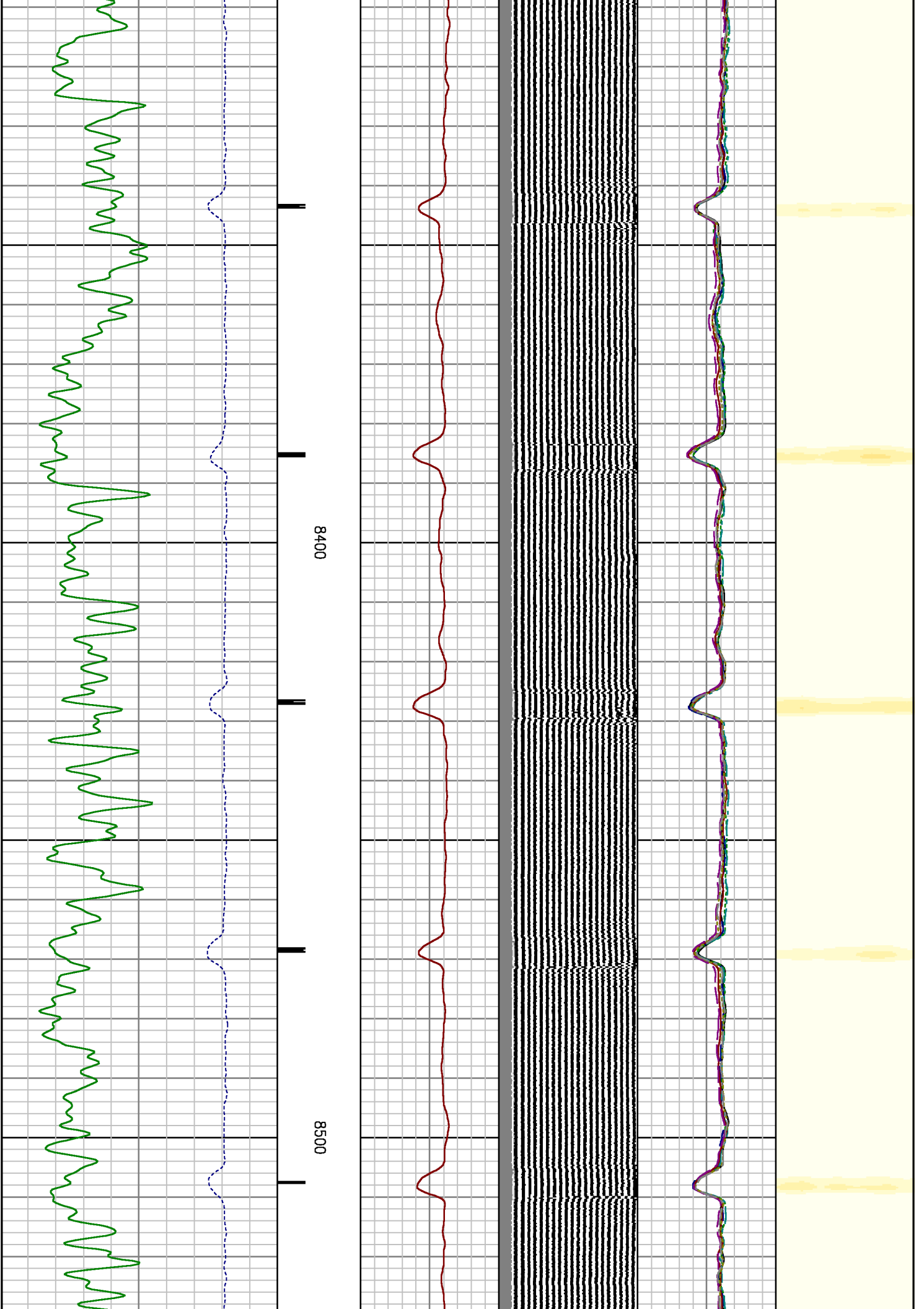


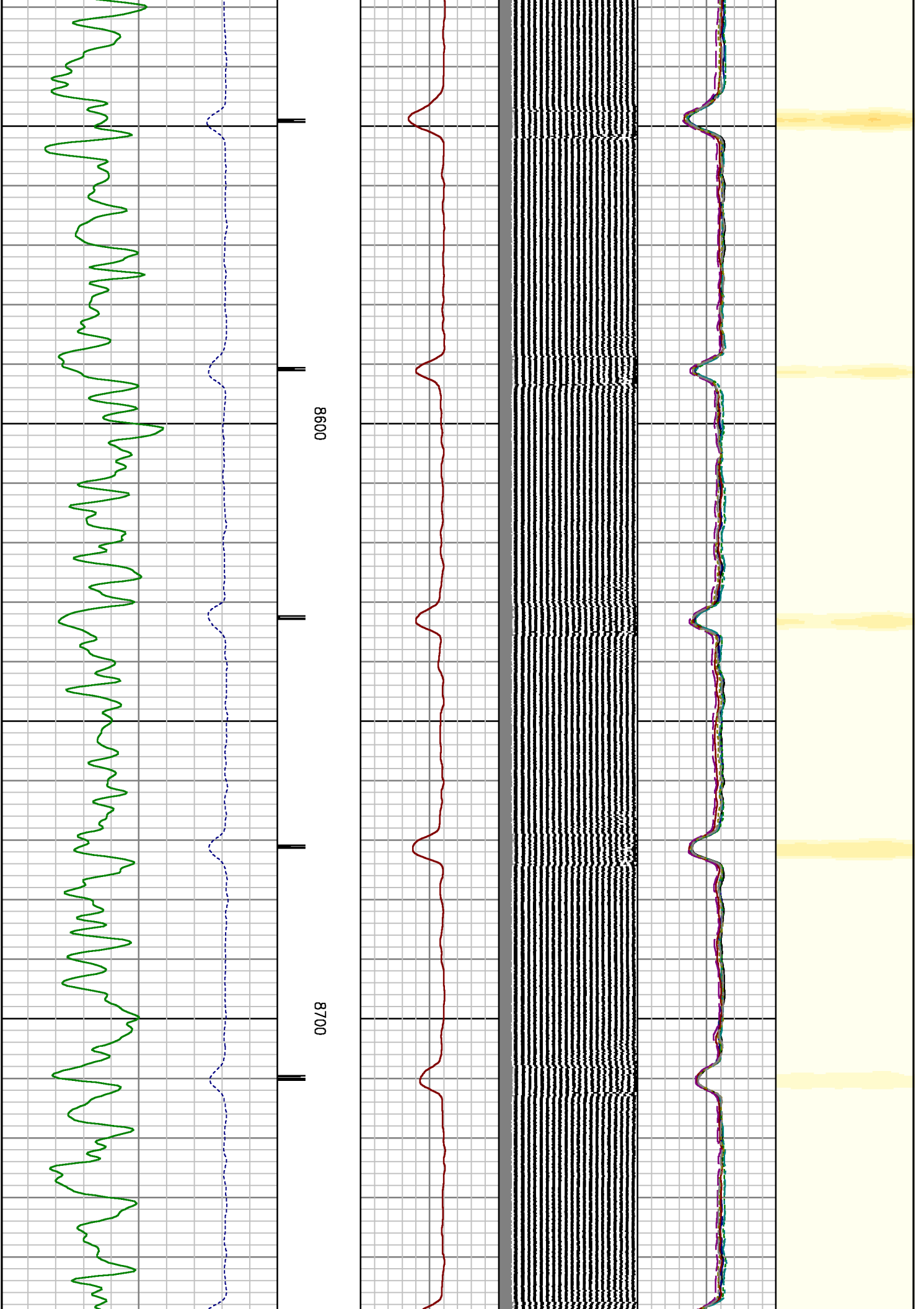


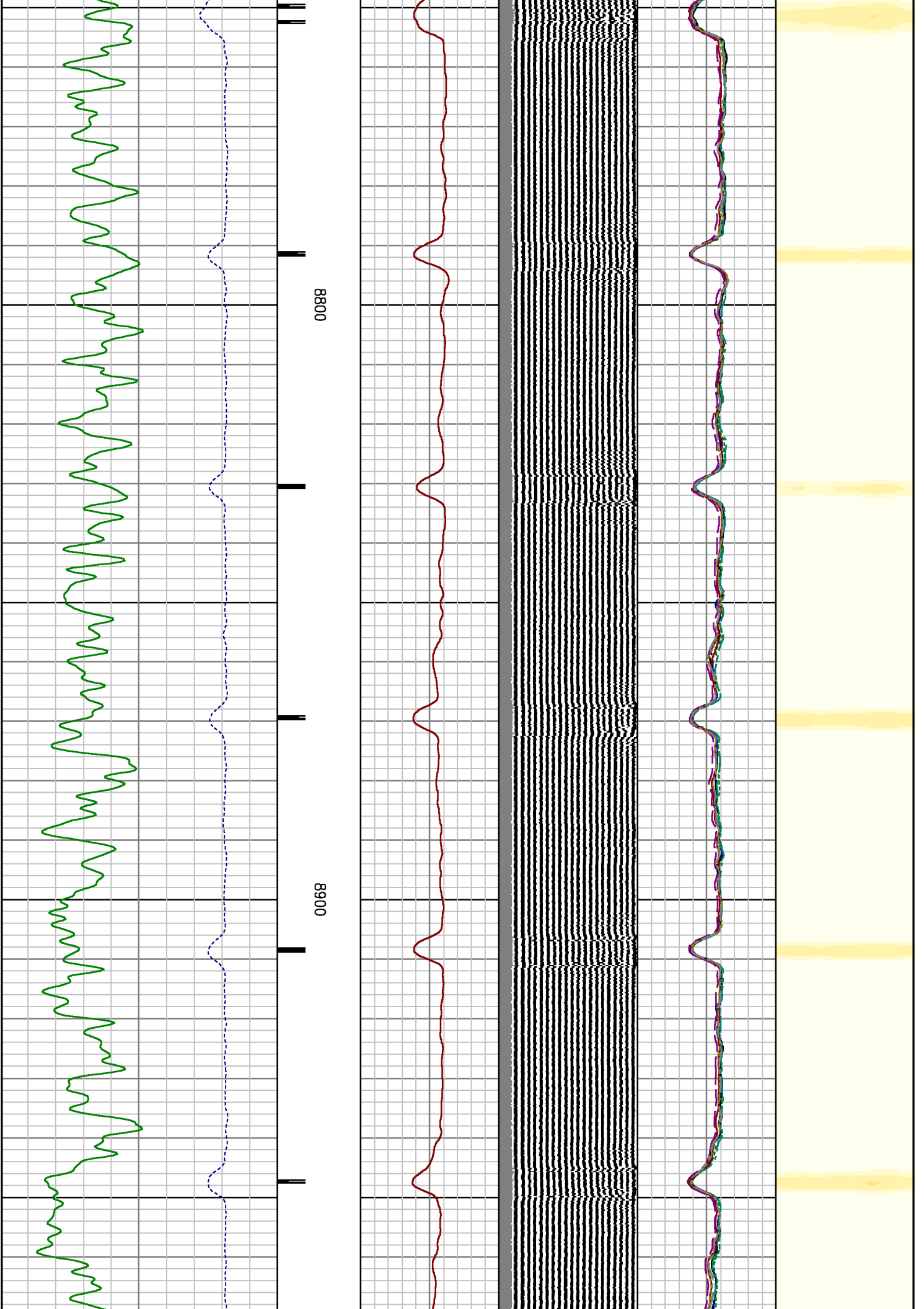


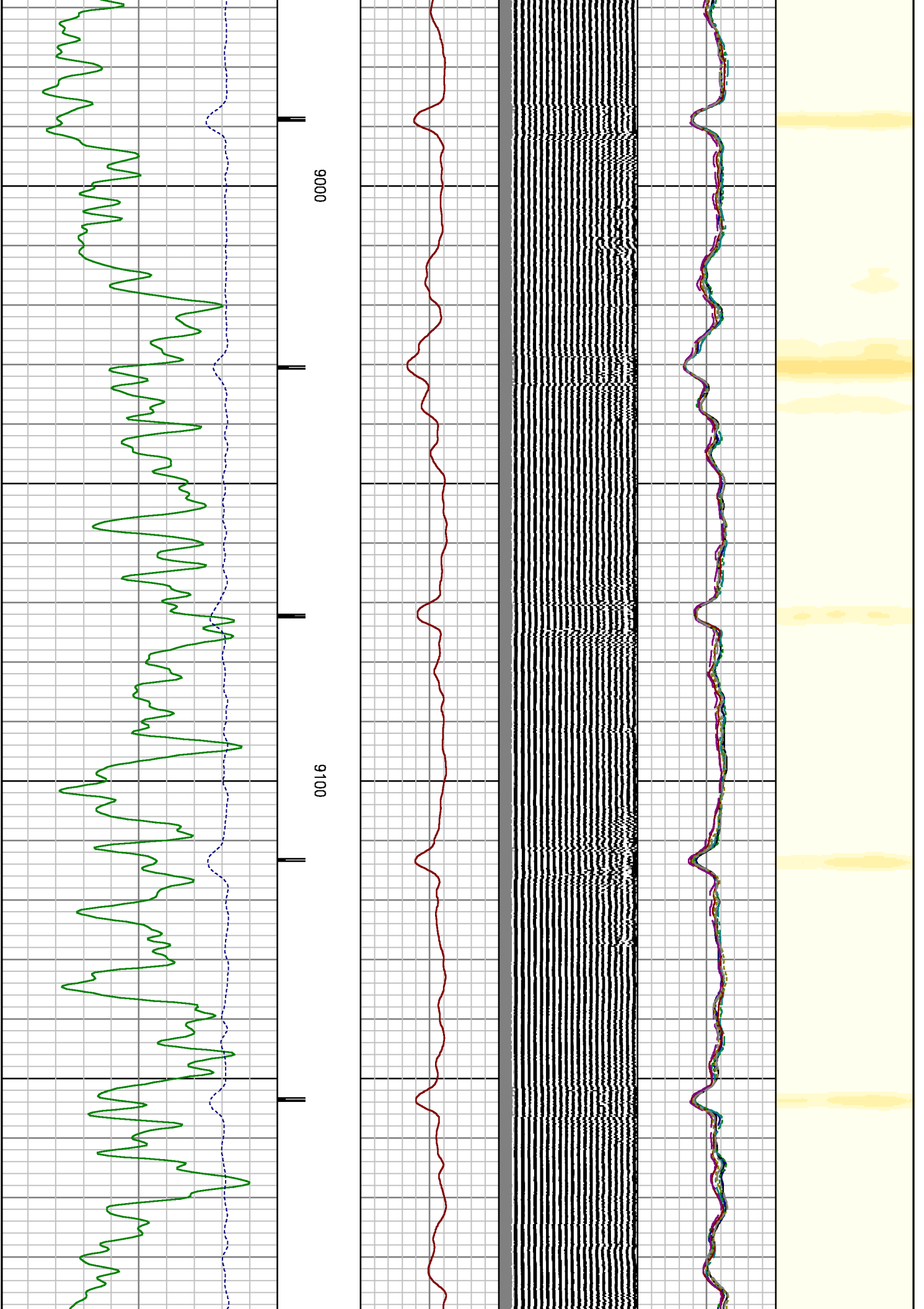


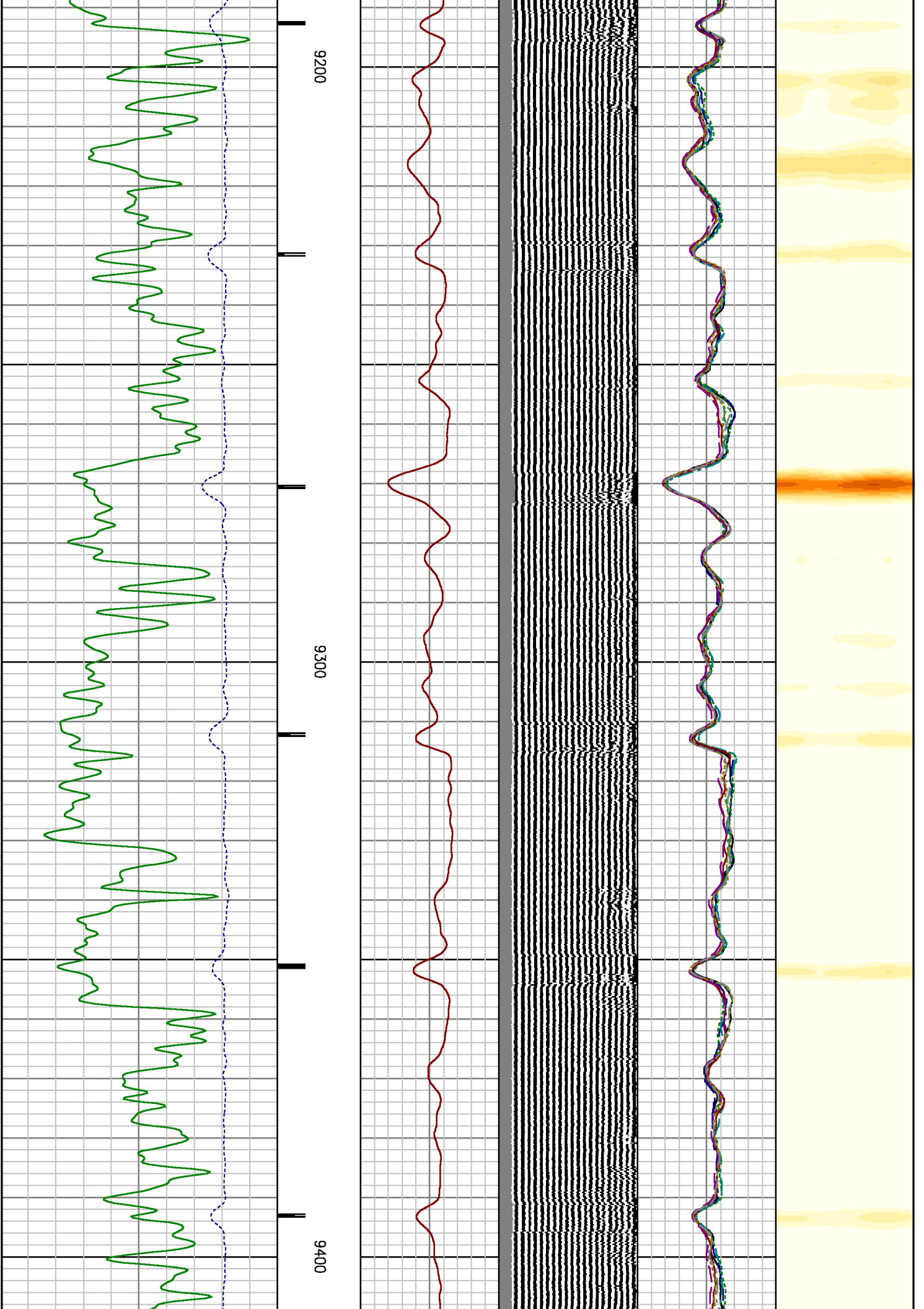


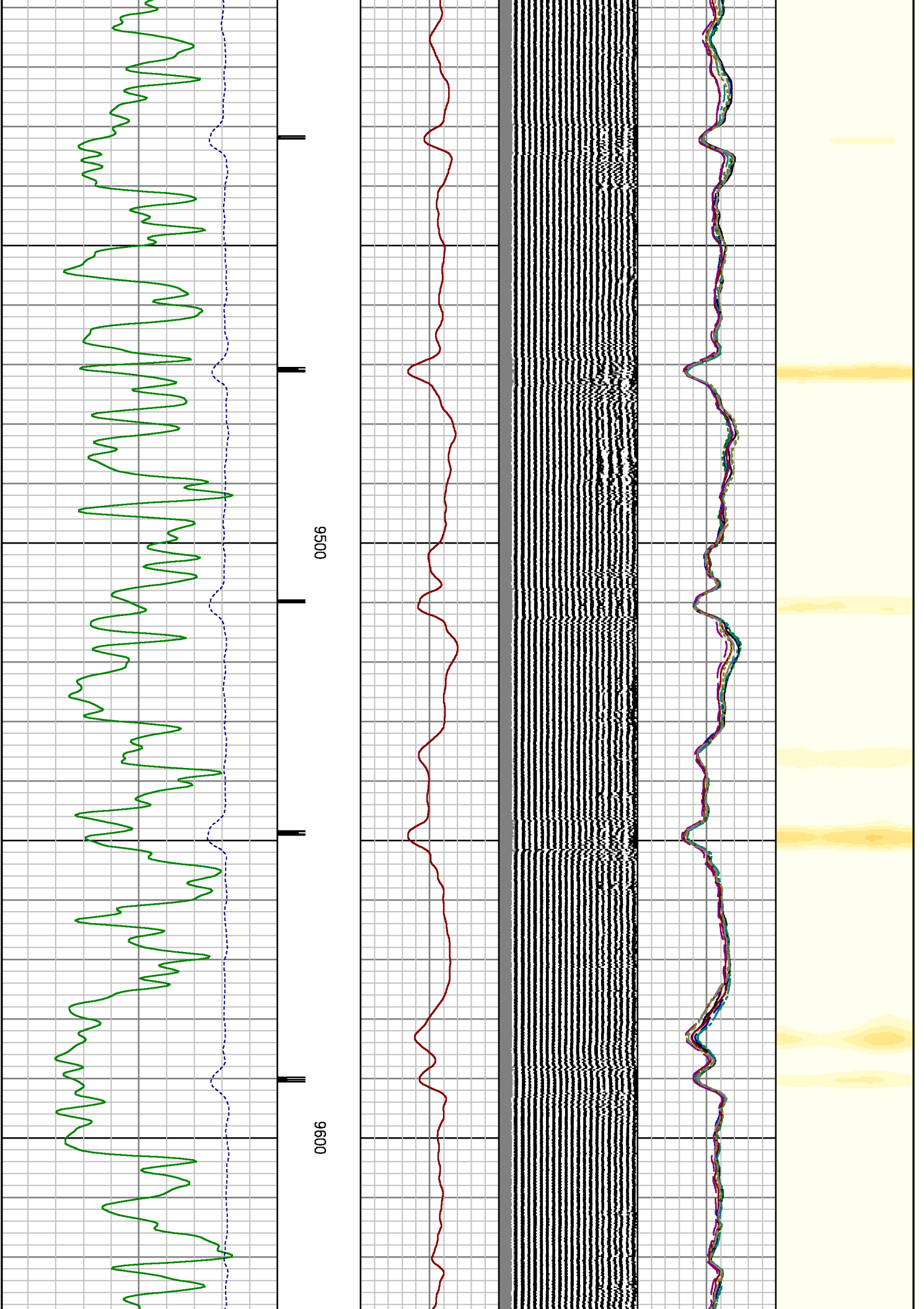


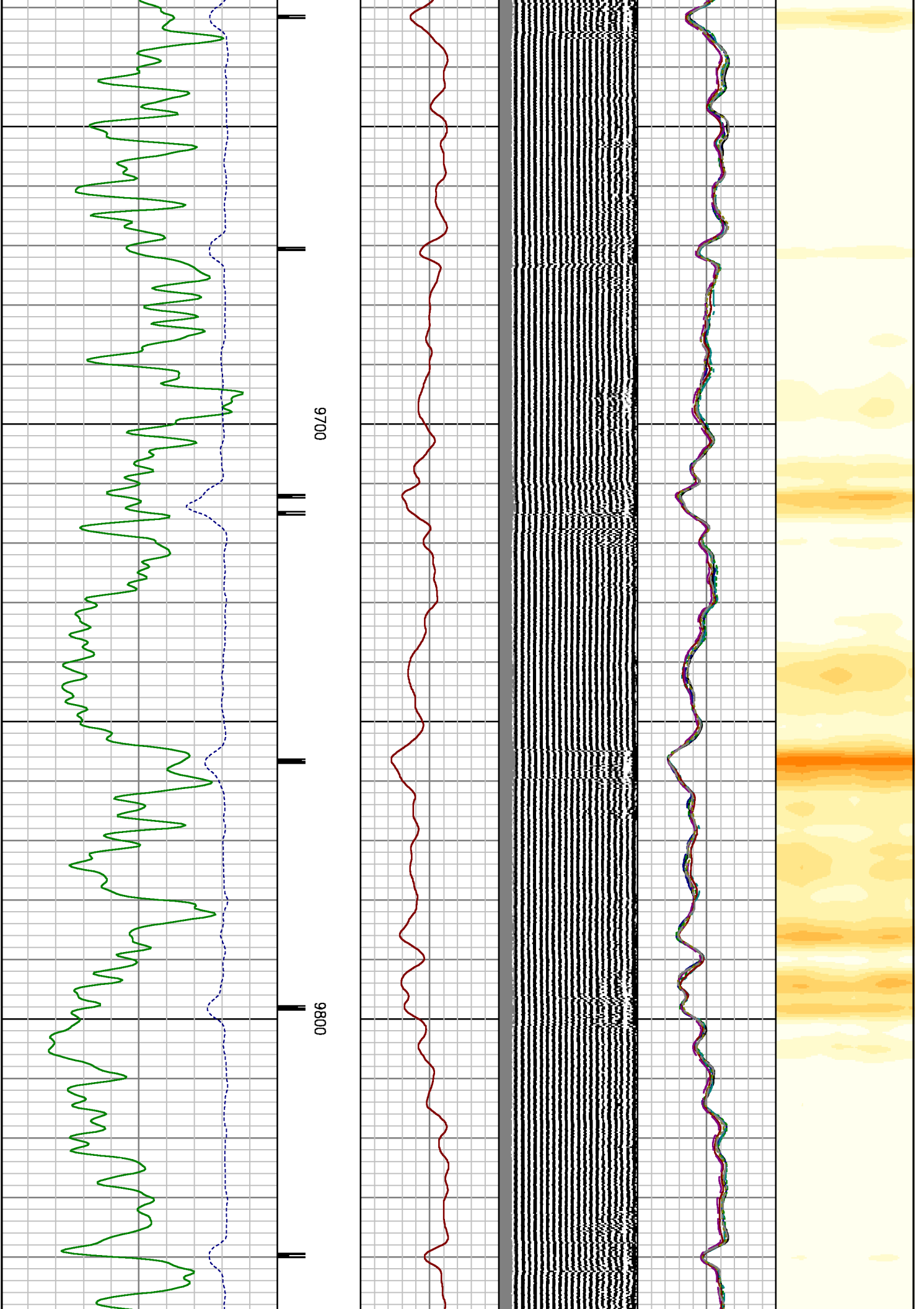


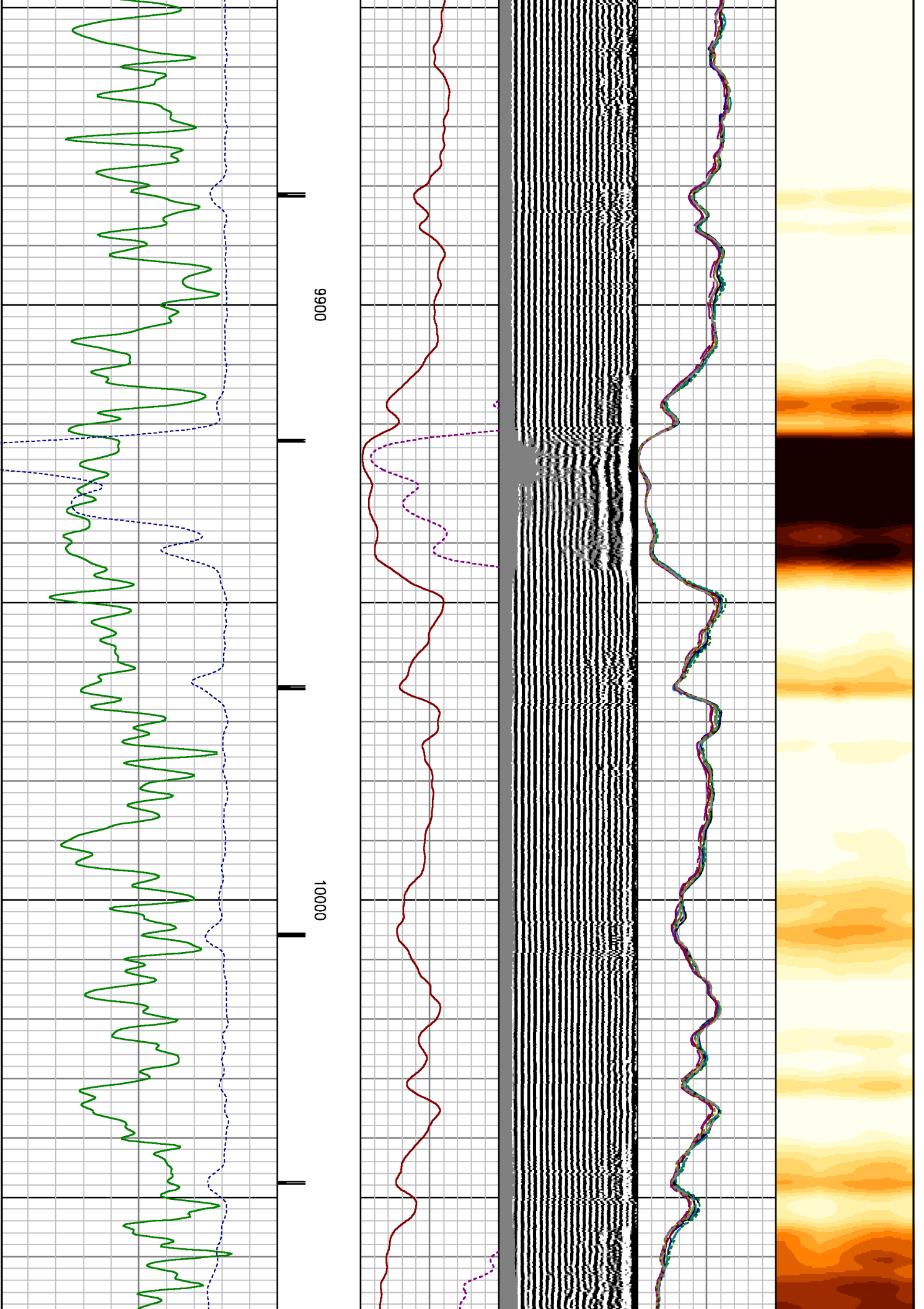


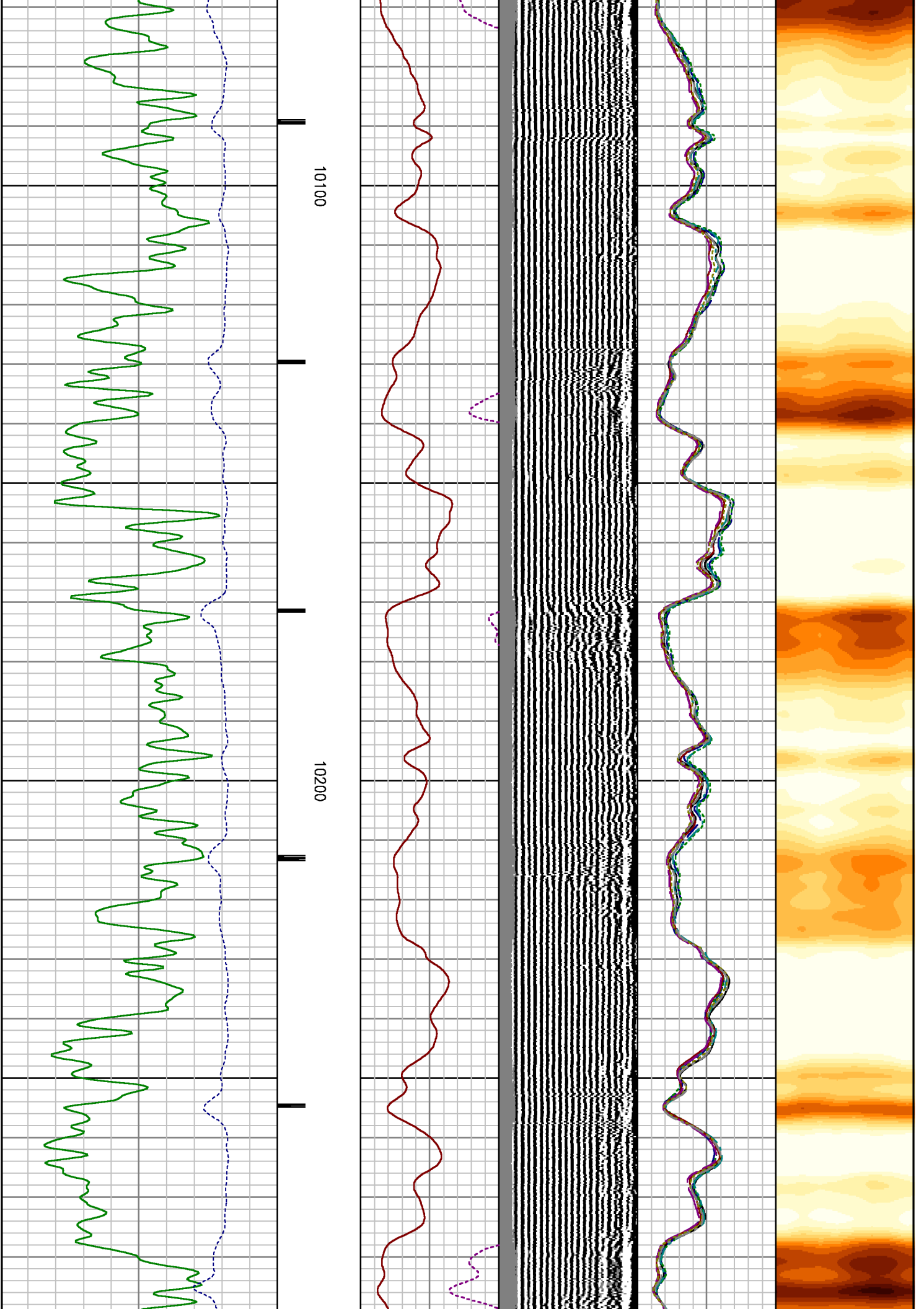


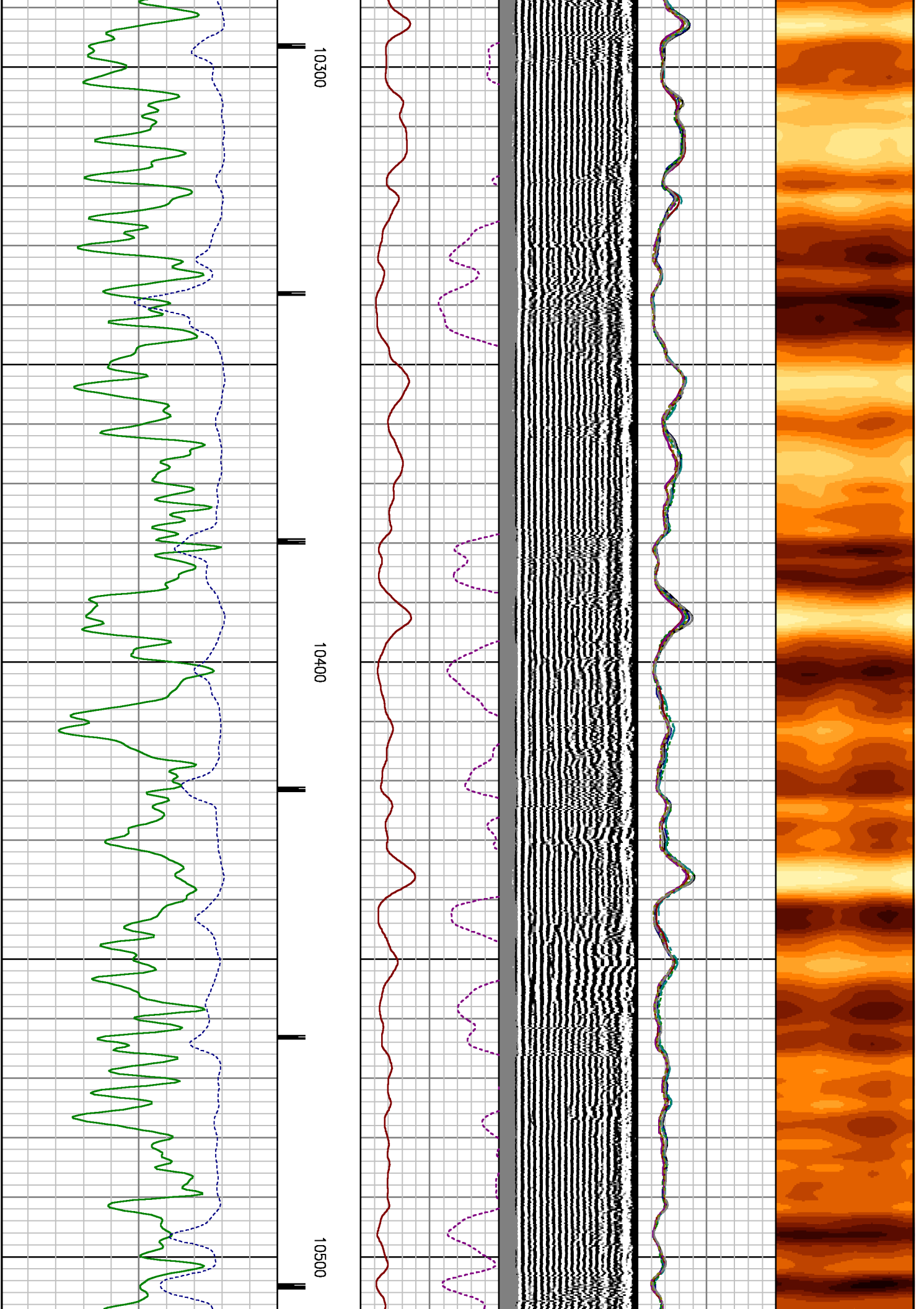


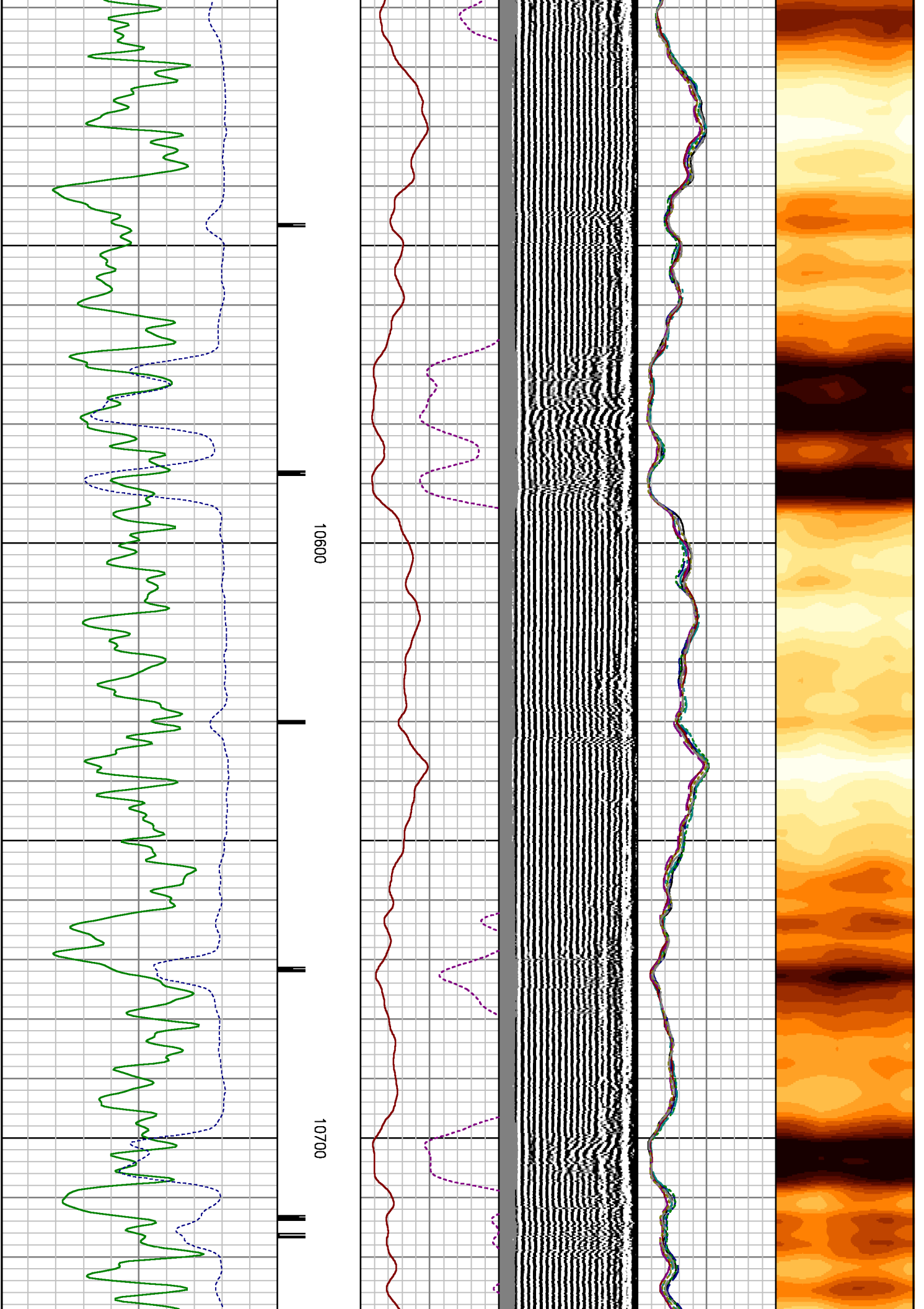


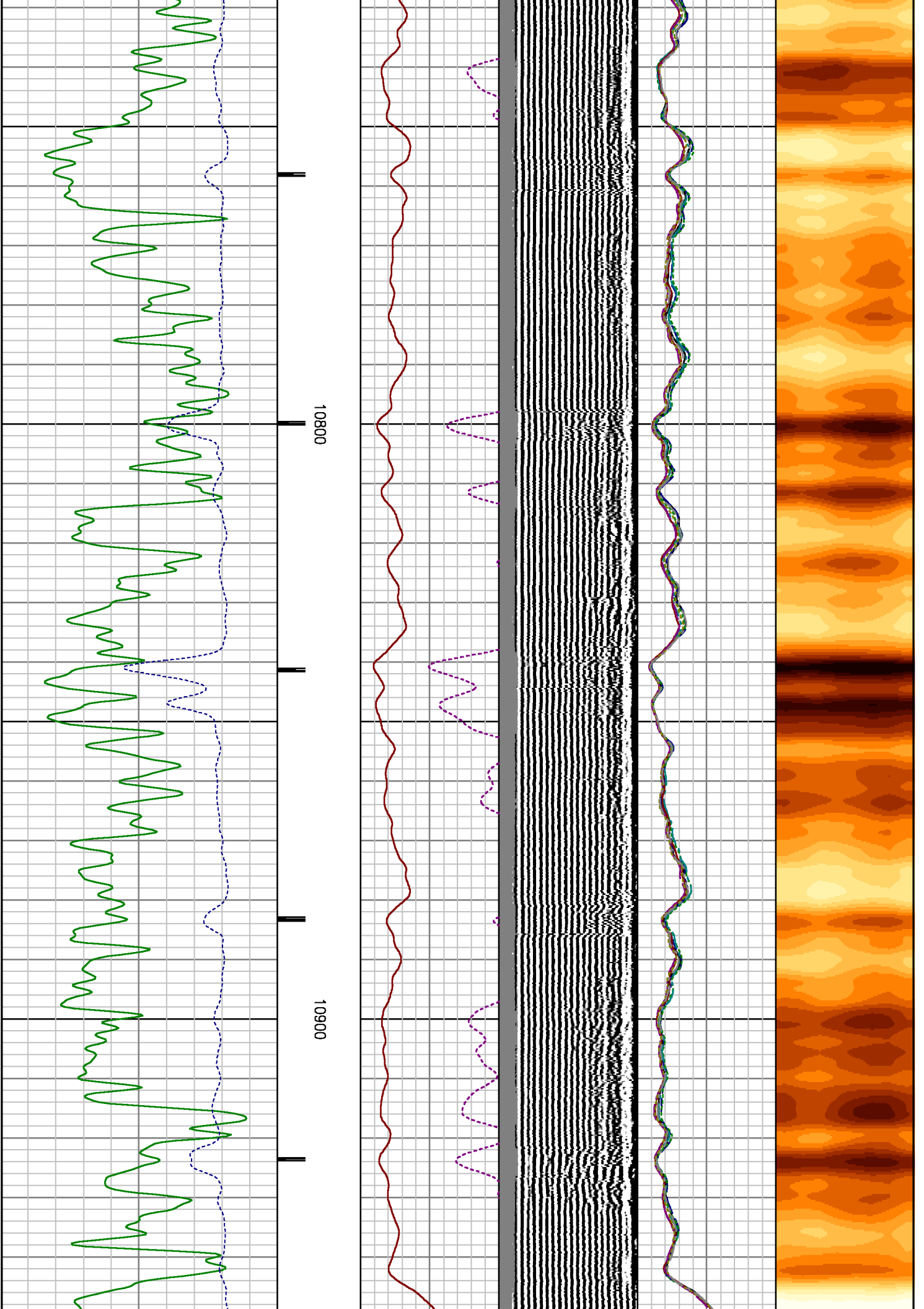


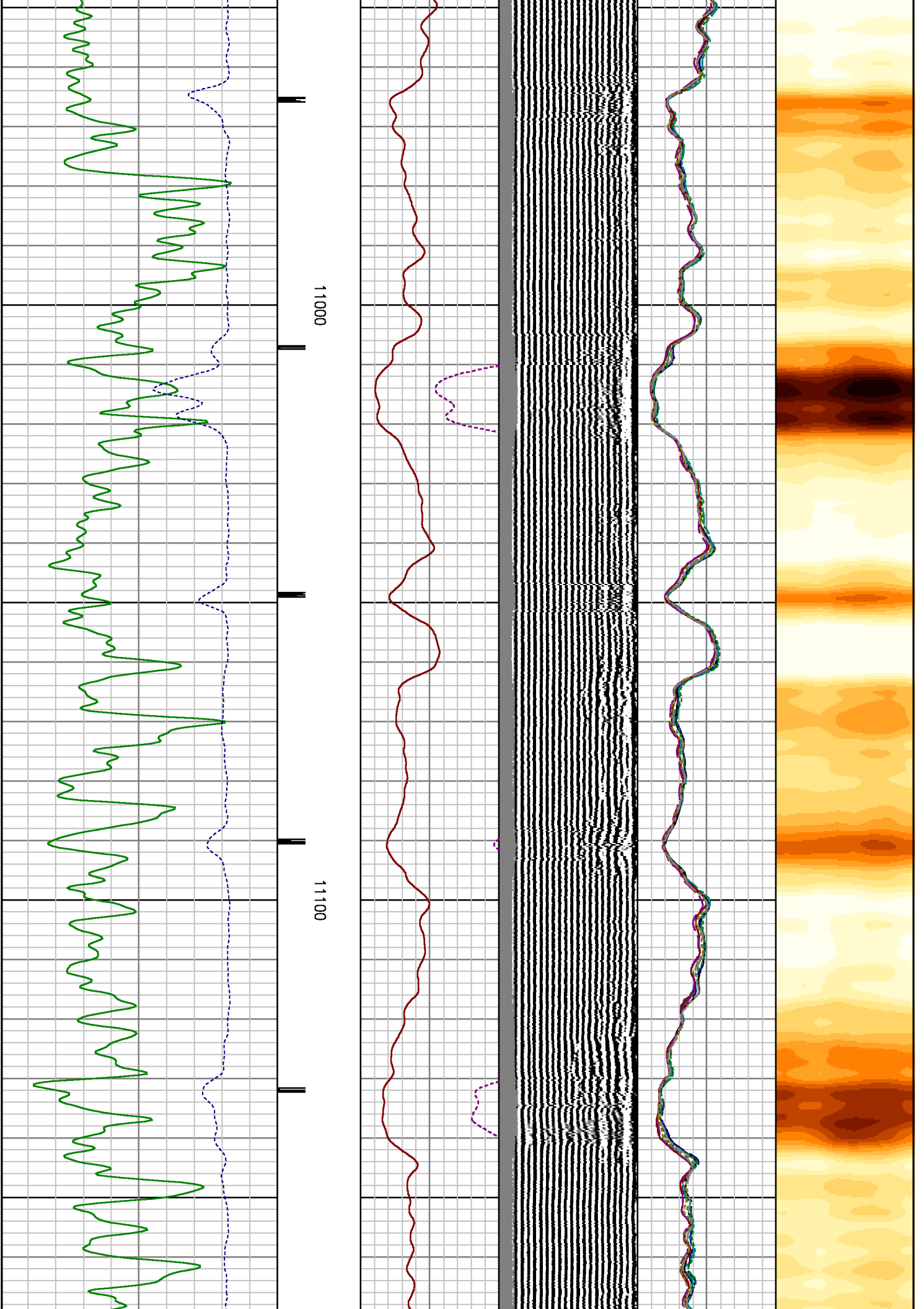


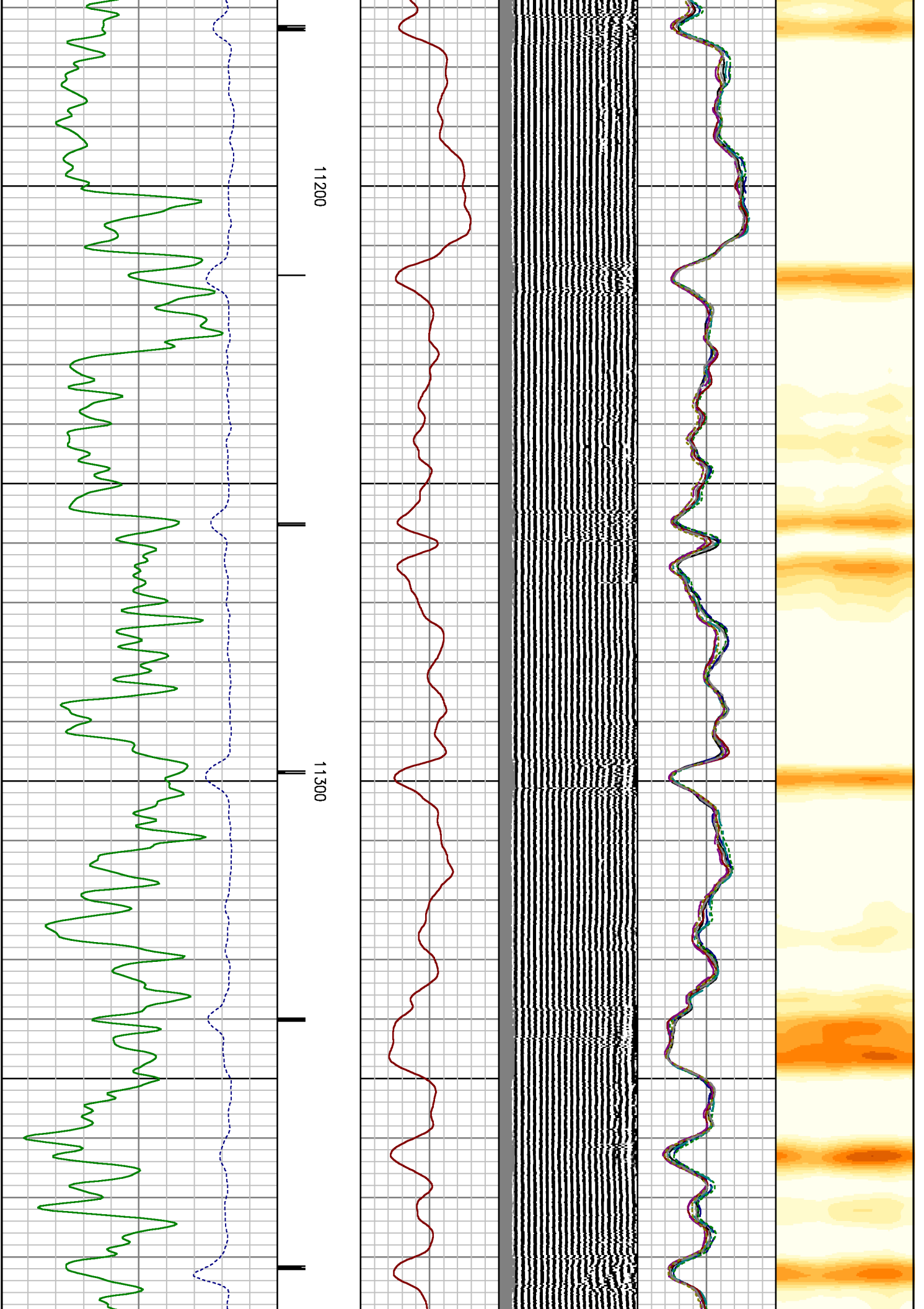


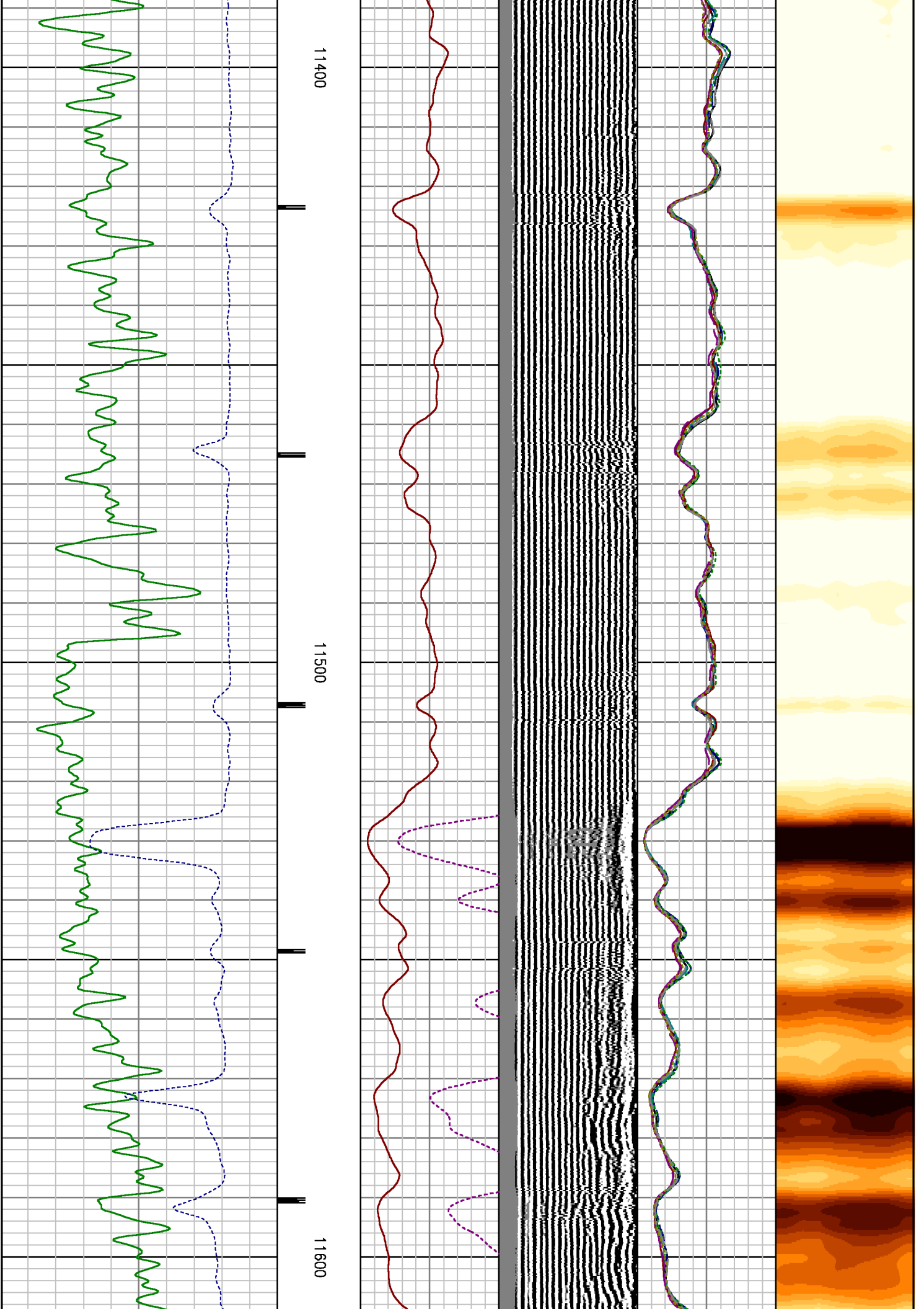


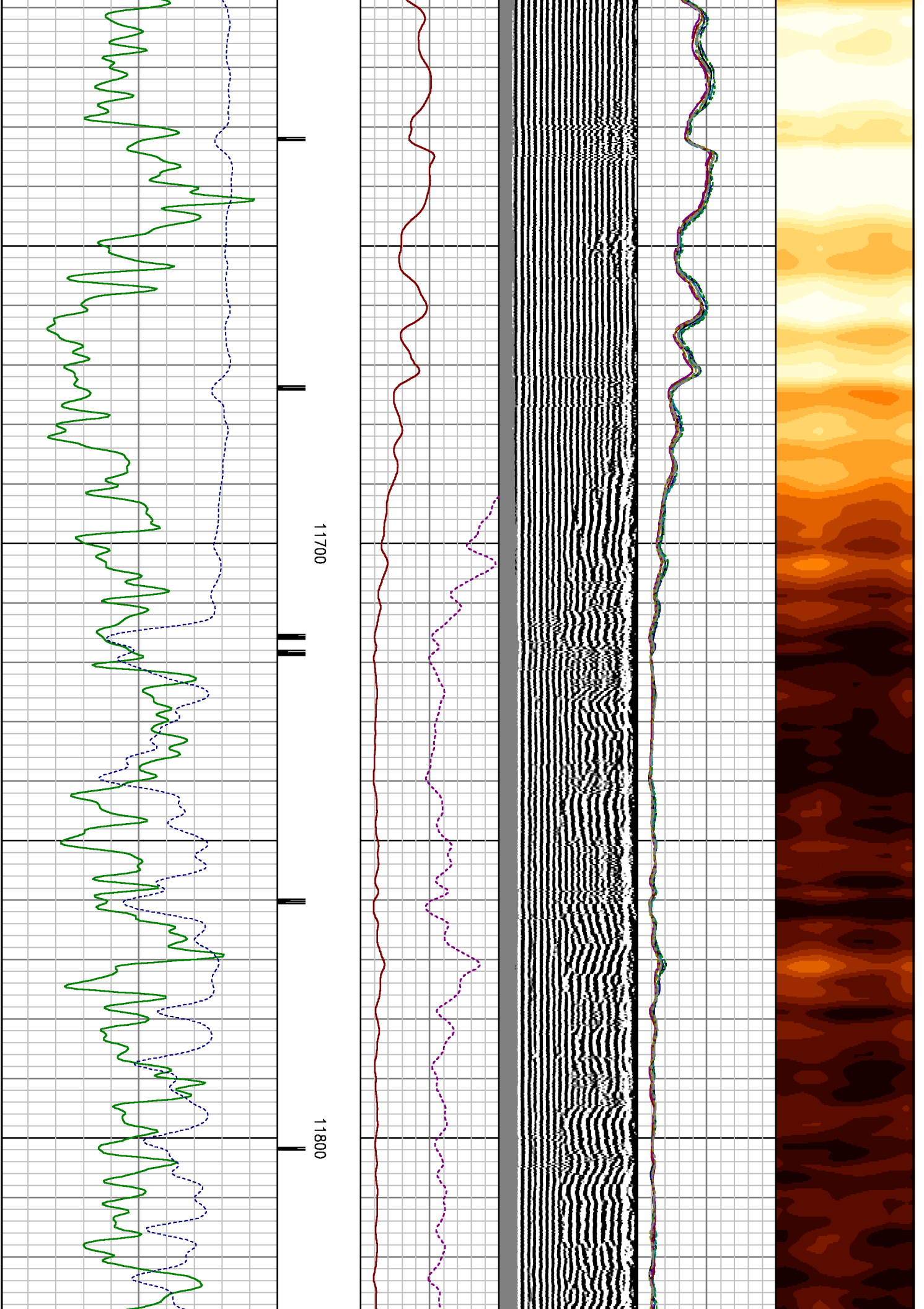


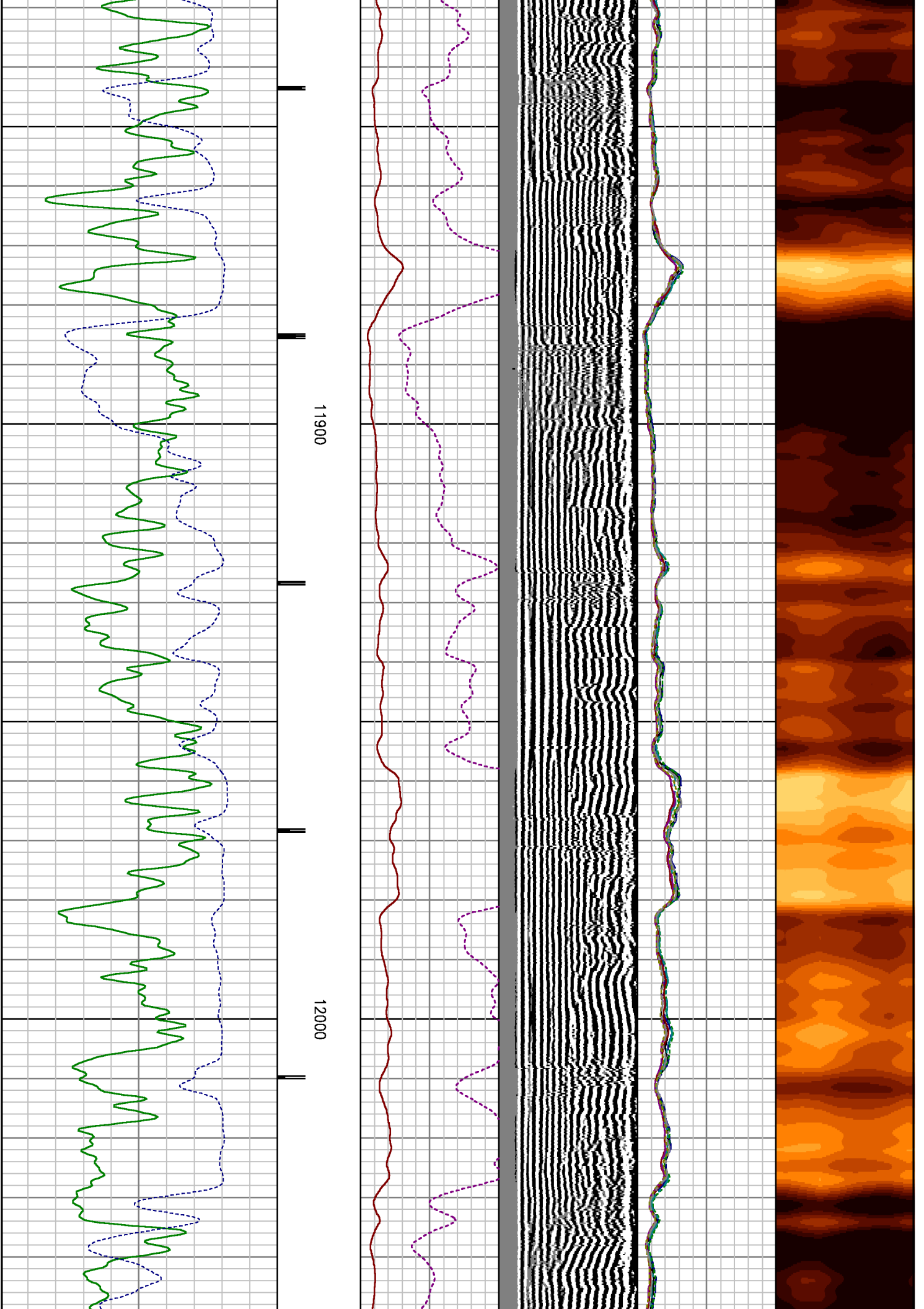


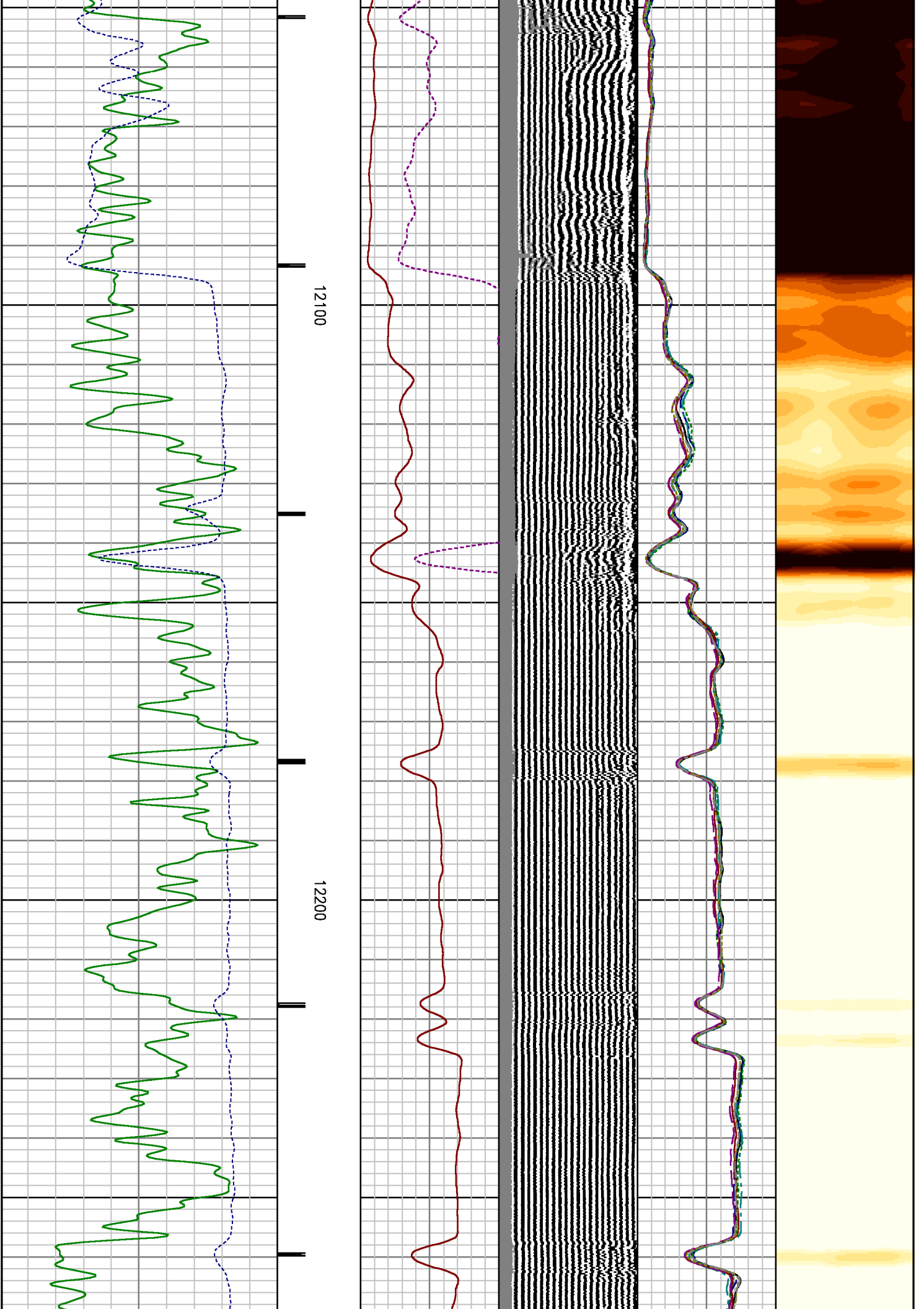


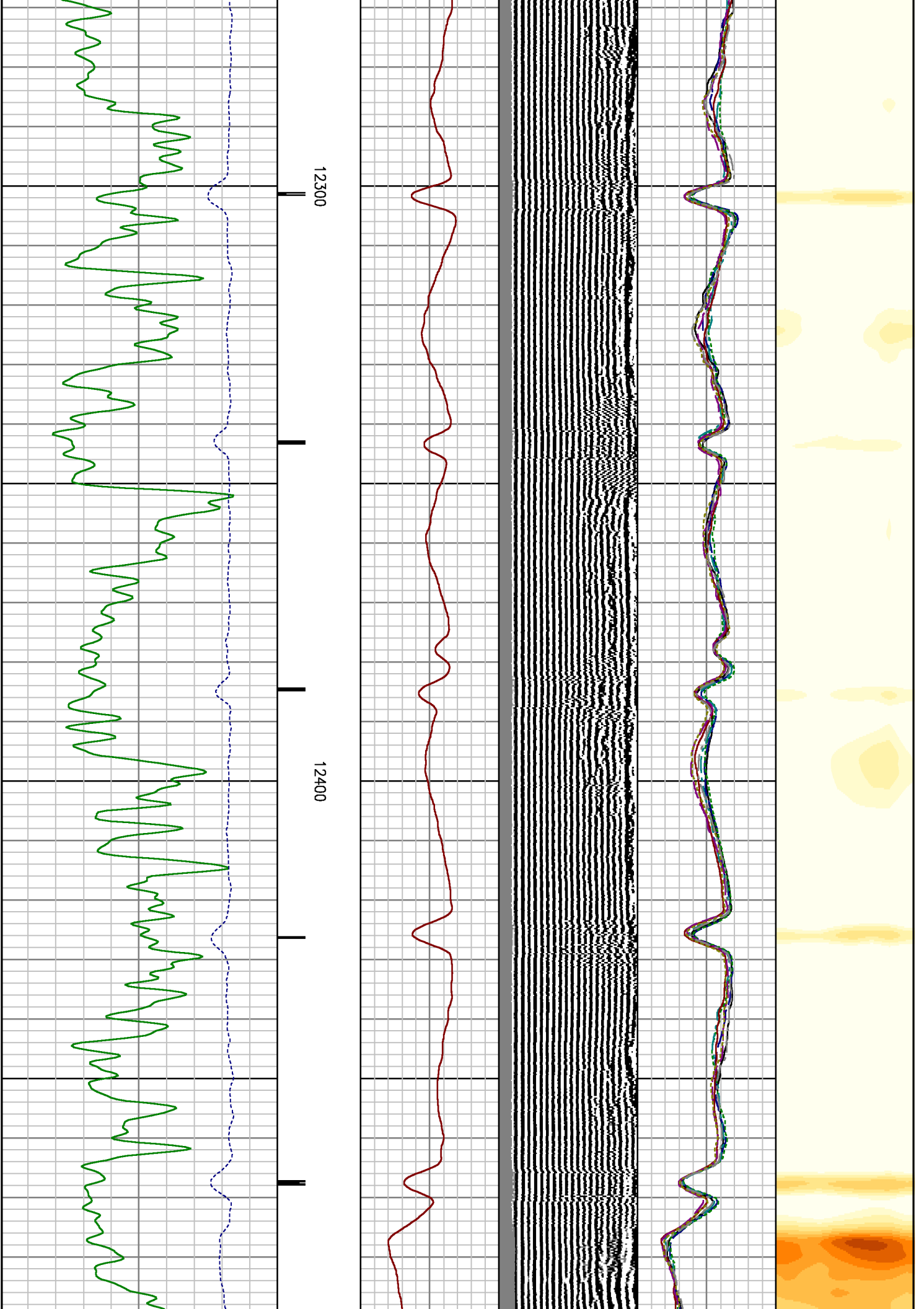


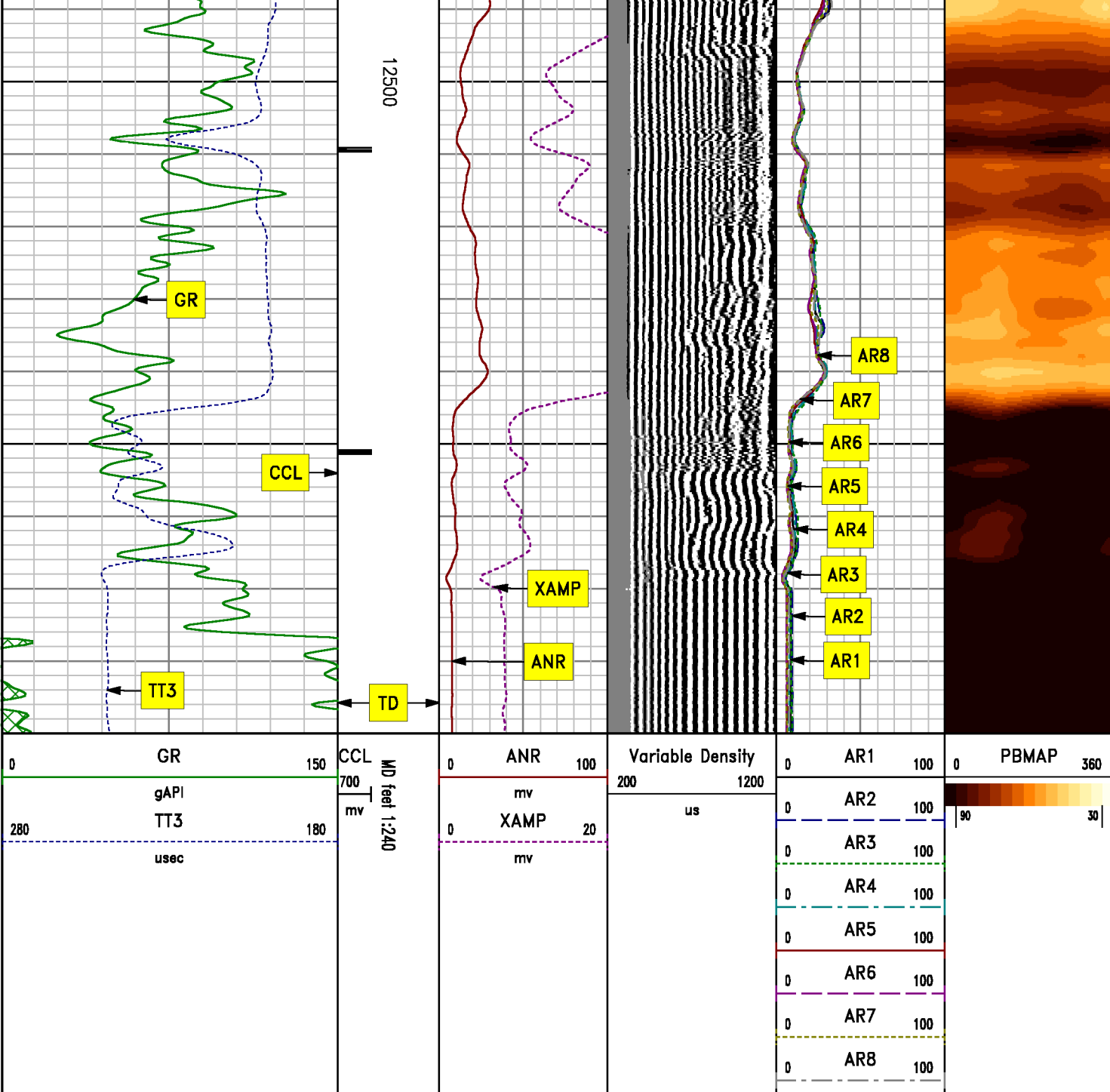












REPEAT SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start For	314.263	u sec	12298.918	12617.000

RAL	Amp Gate Start Far	197.754	usec	12298.918	12617.000
RAL	Amp Gate Start Radial	197.754	usec	12298.918	12617.000
RAL	Amp Gate Width Far	25.000	usec	12298.918	12617.000
RAL	Amp Gate Width Near	25.000	usec	12298.918	12617.000
RAL	Amp Gate Width Radial	25.000	usec	12298.918	12617.000
RAL	casing od	4.500	inches	12298.918	12617.000
RAL	casing wt	15.100	lbm/ft	12298.918	12617.000
RAL	FB Start Far	289.263	usec	12298.918	12617.000
RAL	FB Start Near	172.754	usec	12298.918	12617.000
RAL	FB Start Radial	172.754	usec	12298.918	12617.000
RAL	FB Thresh Far	15.000	mv	12298.918	12617.000
RAL	FB Thresh Near	10.000	mv	12298.918	12617.000
RAL	FB Thresh Radial	10.000	mv	12298.918	12617.000
RAL	Fluid Travel Time	200.000	usec/ft	12298.918	12617.000

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-15.360	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	-14.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

Created by : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

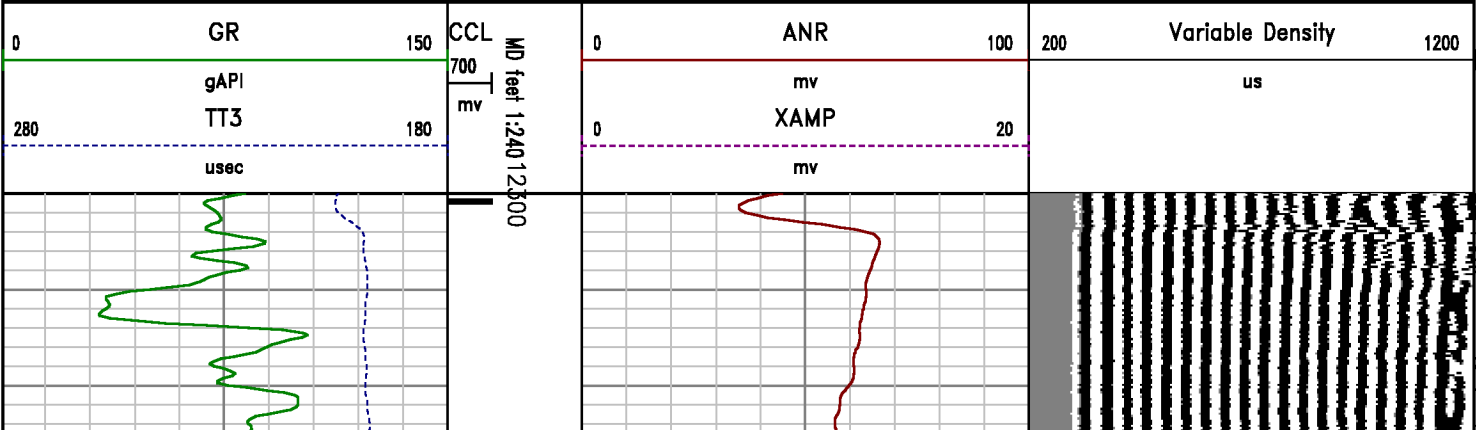
Well : PCU 197-34B10

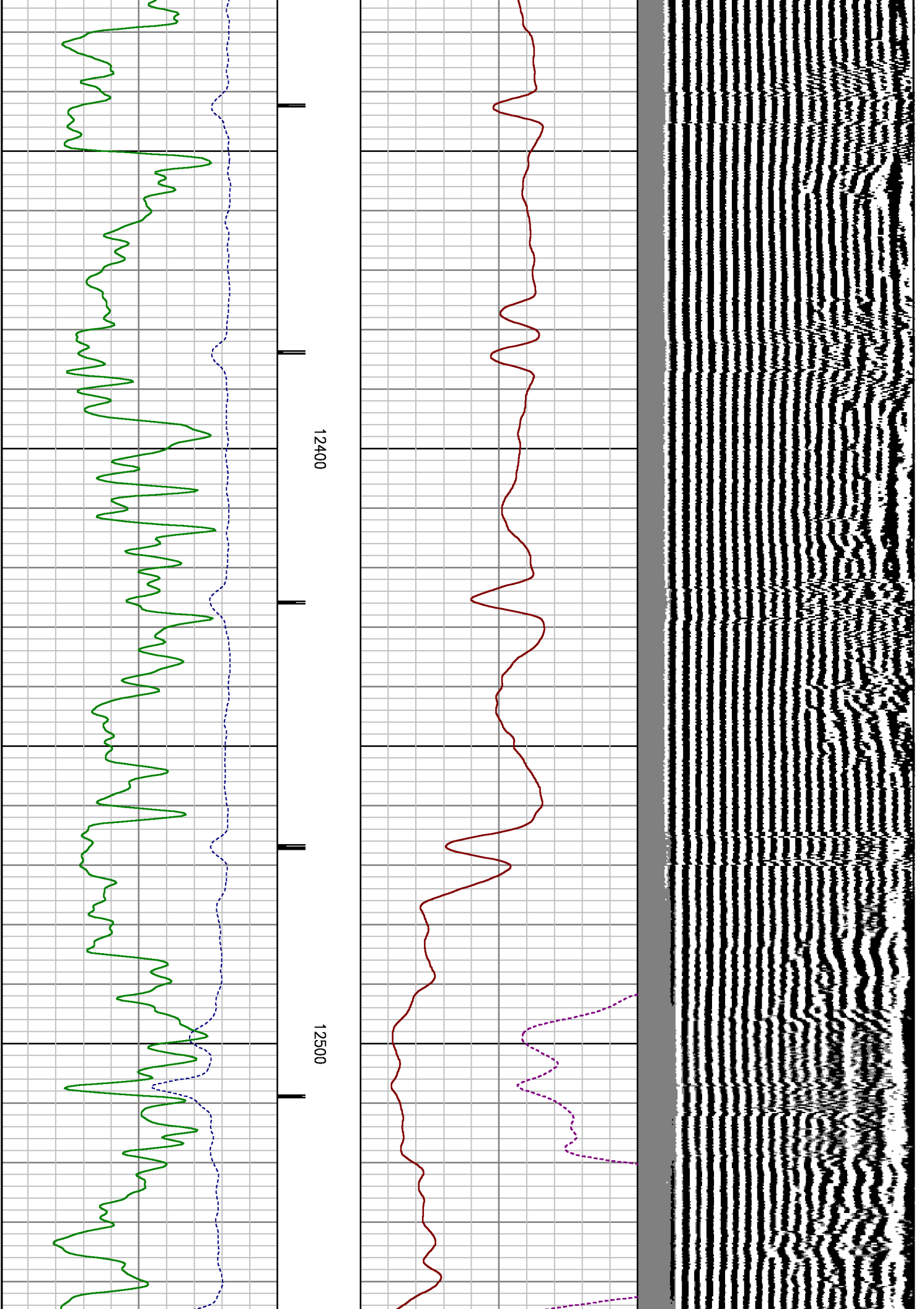
File Name : d:\welldata\10rad\repeat.xtf

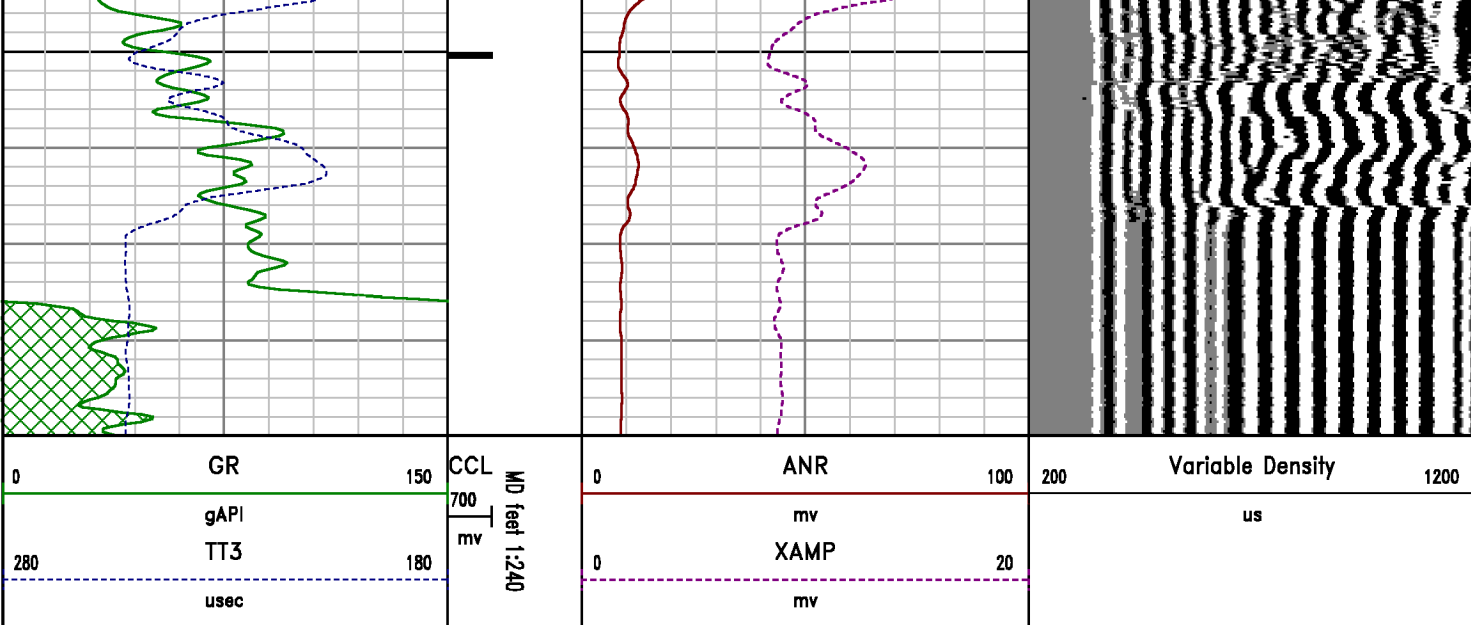
Mode : PlotMgr 5.4.504

Interval : 12300.00 - 12590.00 feet UP

Created : 3/8/2010 9:45:08 PM







CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\503F2.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Feb 27 00:41:18 2010 TOOL SERIES: 1426XA ASSET: 503 SEQ: F2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K SHOP	28.13	149.69	1.522	42.82	227.82	185.00

Verification File: C:\case\calver\GR\503F2.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sat Feb 27 00:43:18 2010 TOOL SERIES: 1426XA ASSET: 503 SEQ: F2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K SHOP	32.18	148.44	1.522	48.97	225.92	176.95

RALSHP

Shop Calibration: C:\case\calver\RALSHP\452M08_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED:

Tue Mar 09 00:16:22 2010

TOOL SERIES:

1426XA

ASSET:

452

SEQ: M08

Tool Delay
[usec]

-58.00

Tank OD
In

5.50

Tank Wt
lbm/ft

15.50

Tank ID
In

4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	212	214	25	153	25	0.476	100.00	0.21
3 Ft. Receiver	215	216	25	154	25	0.162	100.00	0.20
5 Ft. Receiver	323	323	25	257	25	1.042	150.00	0.23
Radial #1	213	216	25	150	25	1.325	100.00	0.20
Radial #2	213	216	25	150	25	0.447	100.00	0.20
Radial #3	215	216	25	150	25	0.255	100.00	0.21
Radial #4	216	216	25	150	25	0.055	100.00	0.21
Radial #5	216	216	25	150	25	-0.286	100.00	0.21
Radial #6	215	216	25	150	25	-0.114	100.00	0.21
Radial #7	213	216	25	150	25	-0.077	100.00	0.21
Radial #8	214	216	25	150	25	-0.176	100.00	0.21

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\452M08 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED:

Tue Mar 09 00:17:48 2010

TOOL SERIES:

1426XA

ASSET:

452

SEQ: M08

Tool Delay
[usec]

-58.00

Casing OD
In

4.50

Casing Wt
lbm/ft

15.10

Casing ID
In

3.83

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	153	25	0.045	0.000	1.00	100.000
3 Ft. Receiver	198	25	-0.558			
5 Ft. Receiver	314	25	-0.286			
Radial #1	198	25	-0.884			
Radial #2	198	25	-0.761			
Radial #3	198	25	-0.752			
Radial #4	198	25	-0.968			
Radial #5	198	25	-1.061			
Radial #6	198	25	-0.876			
Radial #7	198	25	-0.991			
Radial #8	198	25	-0.857			

TOOL DIAGRAM

TOOL DIAGRAM

OTA SHORT CABLE HEAD

CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

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

CENTRALIZER

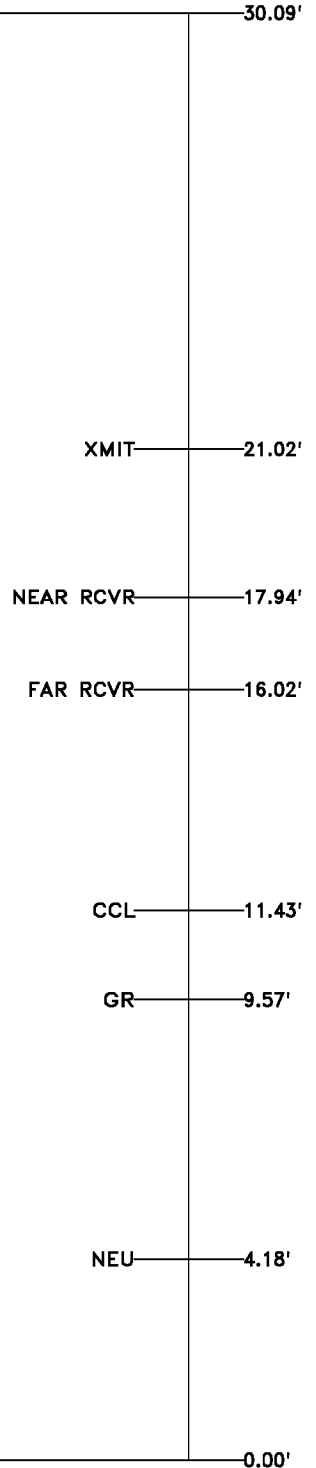
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

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: 30.09'

Total Weight: Not Available

Max Diameter: 0' 3.12"



Company
Well
Field

EXXONMOBIL PRODUCTION COMPANY

PCU 197-34B10

PICEANCE CREEK

File No:

1688

API No:

<div>Baker Atlas</div> <div>CASE</div>	County	RIO BLANCO	State	COLORADO	05-103-11146-00
	Location	788' FSL & 963' FEL			Elevations
					KB 6677.2 ft
					DF 6676.2 ft
					GL 6647 ft
	SEC	34	TWP	1S	RGE 97W