



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH072034	Company Well Field County	WPX ENERGY DIAMOND ELK PA 343-2 PARACHUTE GARFIELD	State COLORADO
API No: 05045208920000			
Location SHL: 2319' FSL & 882' FWL SEC:1 GV 84-1 BHL: 1959' FSL & 737' FEL SEC:2 NABORS SSD 574	Other Services RPM		
Permanent Datum Log Measured From Drill Measured From	E.L. _____ Elevation 6027 ft K.B. _____ 26 ft Above P. D. KELLY BUSHING		Elevations KB 8053 ft DF GL 6027 ft
SEC 2 TWP 7S RGE 9SW			

Date	17/MAY/15	
Run	ONE	
Service Order	575079	
Depth Driller	8030 ft	
Depth Logger	7997 ft	
Bottom Logged Interval	7987 ft	
Top Logged Interval	26 ft	
Time Started	7:30	
Time Finished	11:00	
Operator Rig Time	3.5 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	73 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	224 degF	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	4271	GRAND JUNCTION
Recorded By	W. KINSEL	9721
Witnessed By	MR. MATT HUTSON	GRAND JUNCTION

- 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	943 ft
7.875 In	0 ft	8105 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	N/A	N/A	0 ft	927 ft
4.5 In	11.6 lbm/ft	1-80	0 ft	8030 ft

Remarks
ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH THE TOP CCL MARK WITH KB LEVEL AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 2 FEET DOWN.
SHORT JOINT: 4796' - 4821'
BHT: 224 degF
LOG DONE WITH 0 PSI ON WELLHEAD

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10404539	CENTRALIZED
1	1	GAMMA RAY/CCL	1355XA	10580209	CENTRALIZED

MAIN LOG PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.653	usec	33.062	8018.750
RAL	Amp Gate Start Near	197.374	usec	33.062	8018.750
RAL	Amp Gate Start Radial	198.140	usec	33.062	8018.750
RAL	Amp Gate Width Far	25.000	usec	33.062	8018.750
RAL	Amp Gate Width Near	25.000	usec	33.062	8018.750
RAL	Amp Gate Width Radial	25.000	usec	33.062	8018.750
RAL	casing od	4.500	inches	33.062	8018.750
RAL	casing wt	11.600	lbm/ft	33.062	8018.750
RAL	FB Start Far	291.900	usec	33.062	8018.750
RAL	FB Start Near	175.391	usec	33.062	8018.750
RAL	FB Start Radial	175.391	usec	33.062	8018.750
RAL	FB Thresh Far	10.000	mv	33.062	8018.750
RAL	FB Thresh Near	4.000	mv	33.062	8018.750
RAL	FB Thresh Radial	4.000	mv	33.062	8018.750
RAL	Fluid Travel Time	200.000	usec/ft	33.062	8018.750

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

1426XA -10.040
1355XA -5.620
1355XA -1.500
1355XA 0.000

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

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

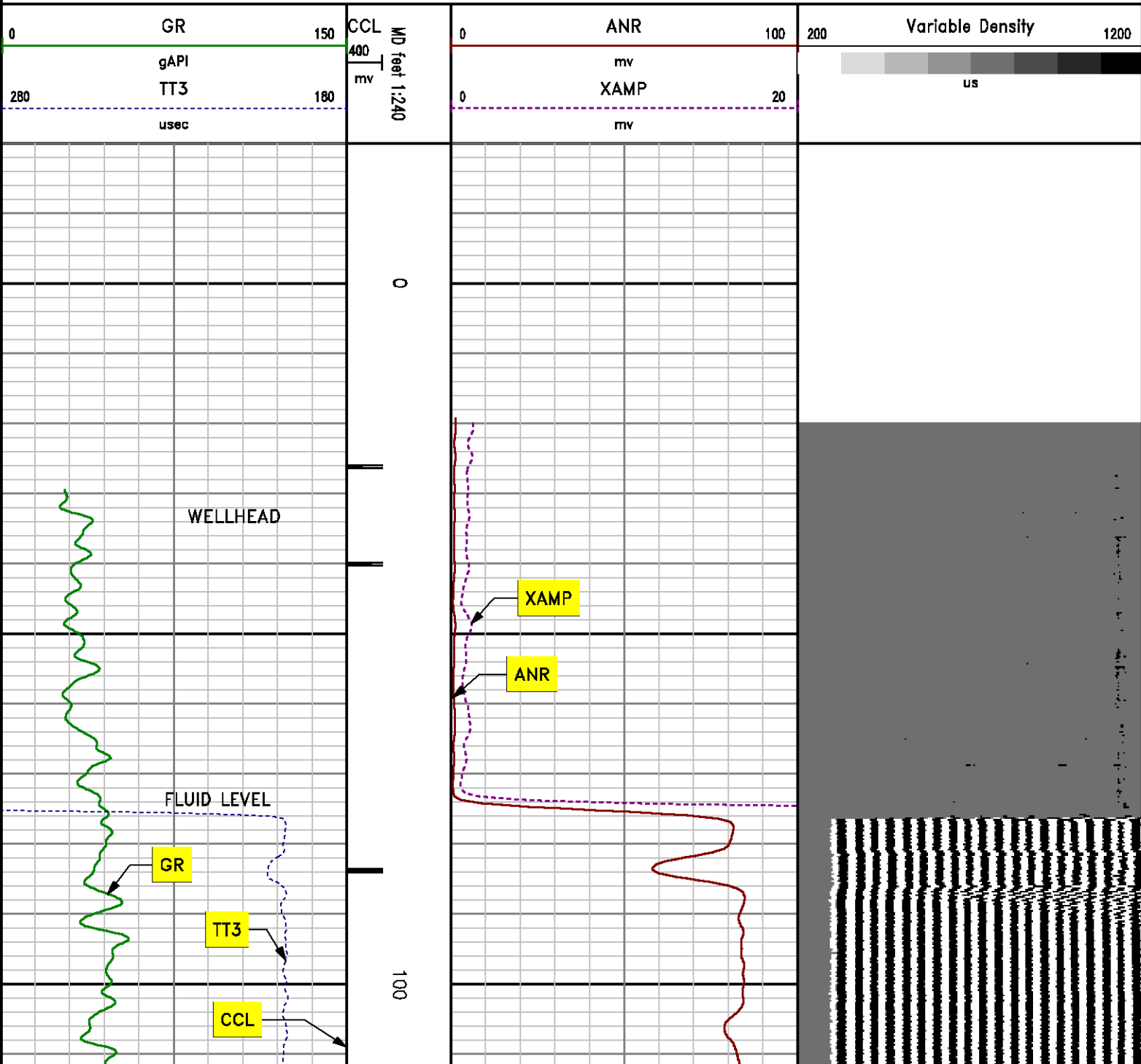
Well : DIAMOND ELK PA 343-2

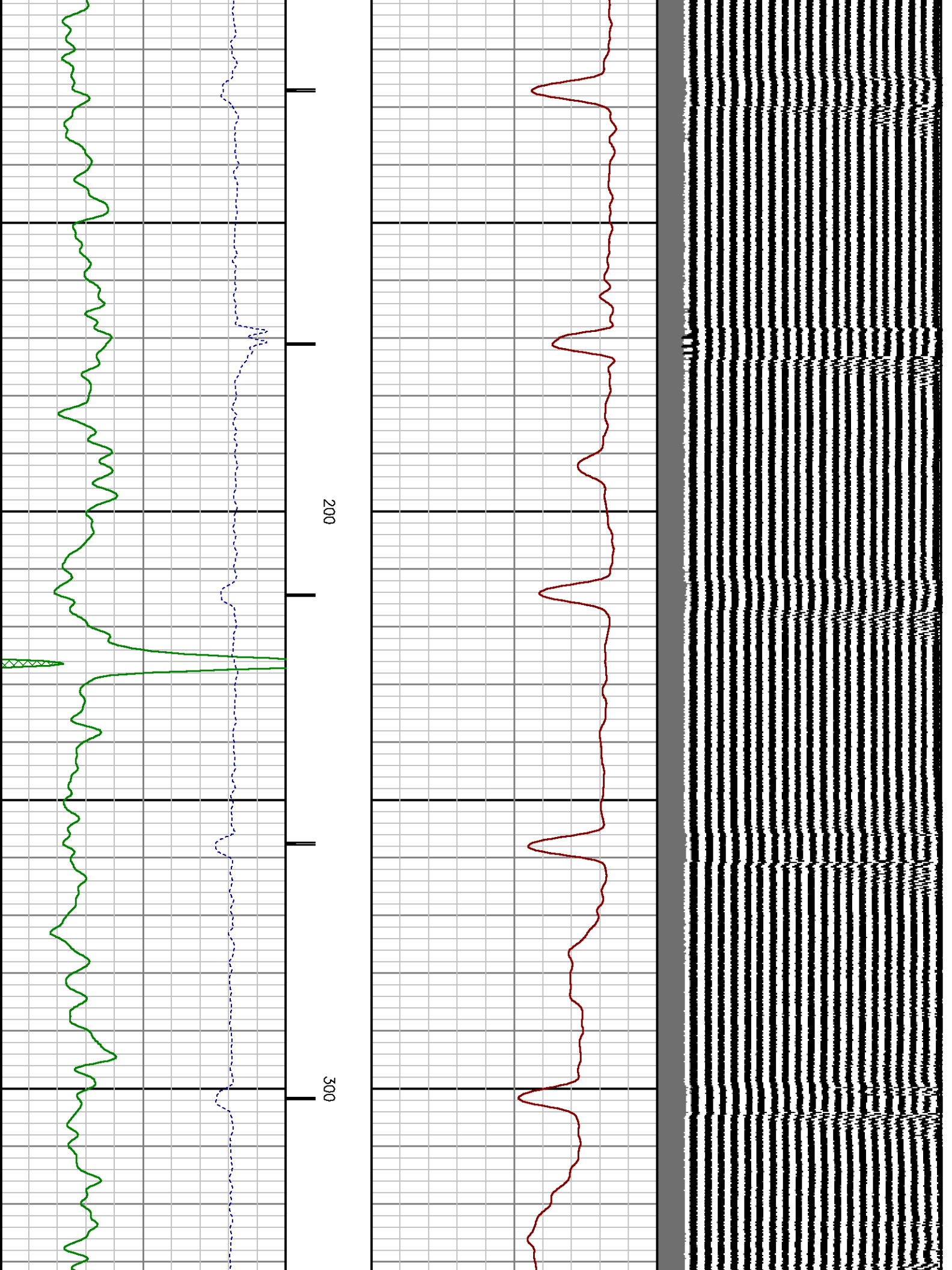
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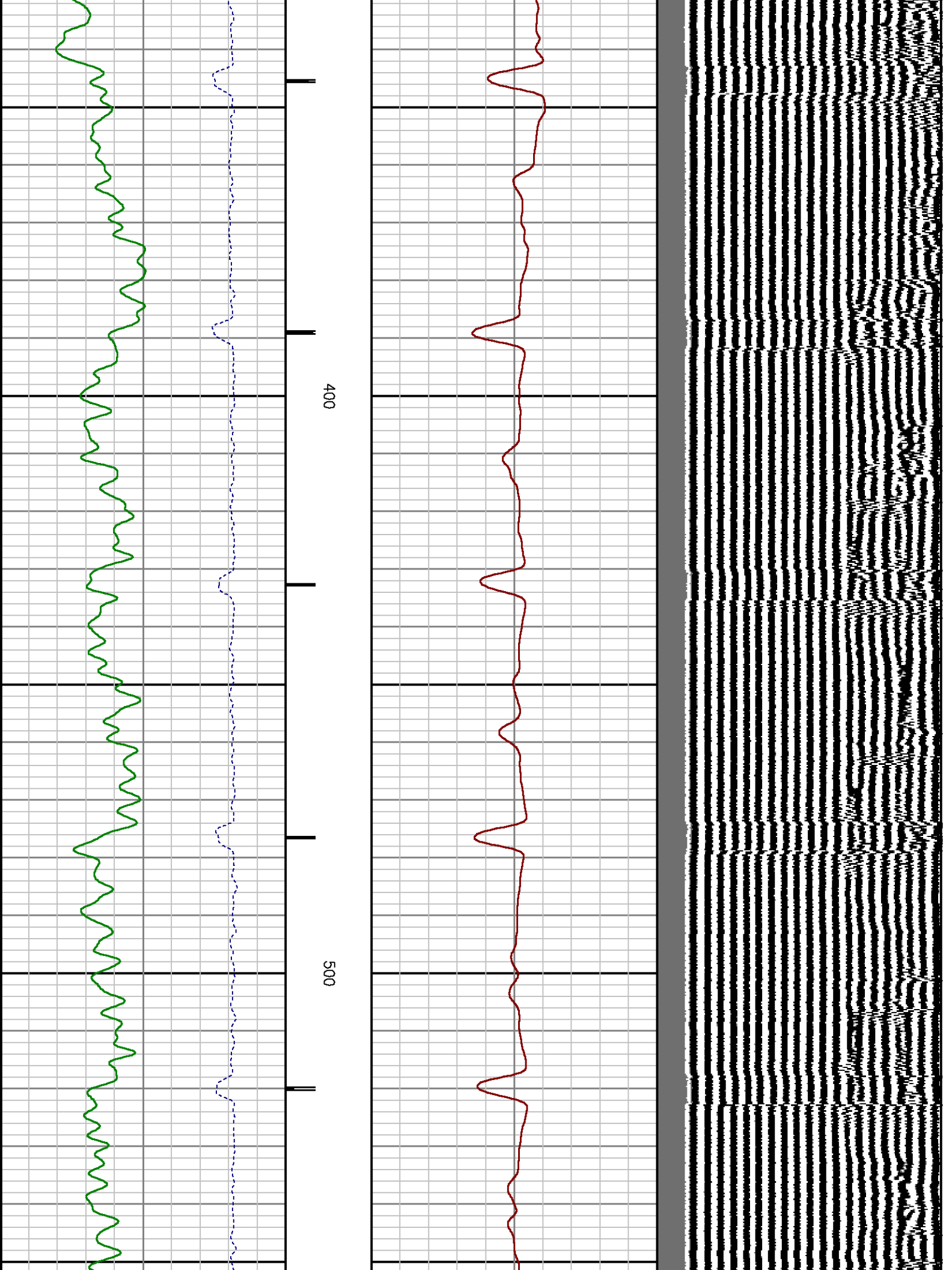
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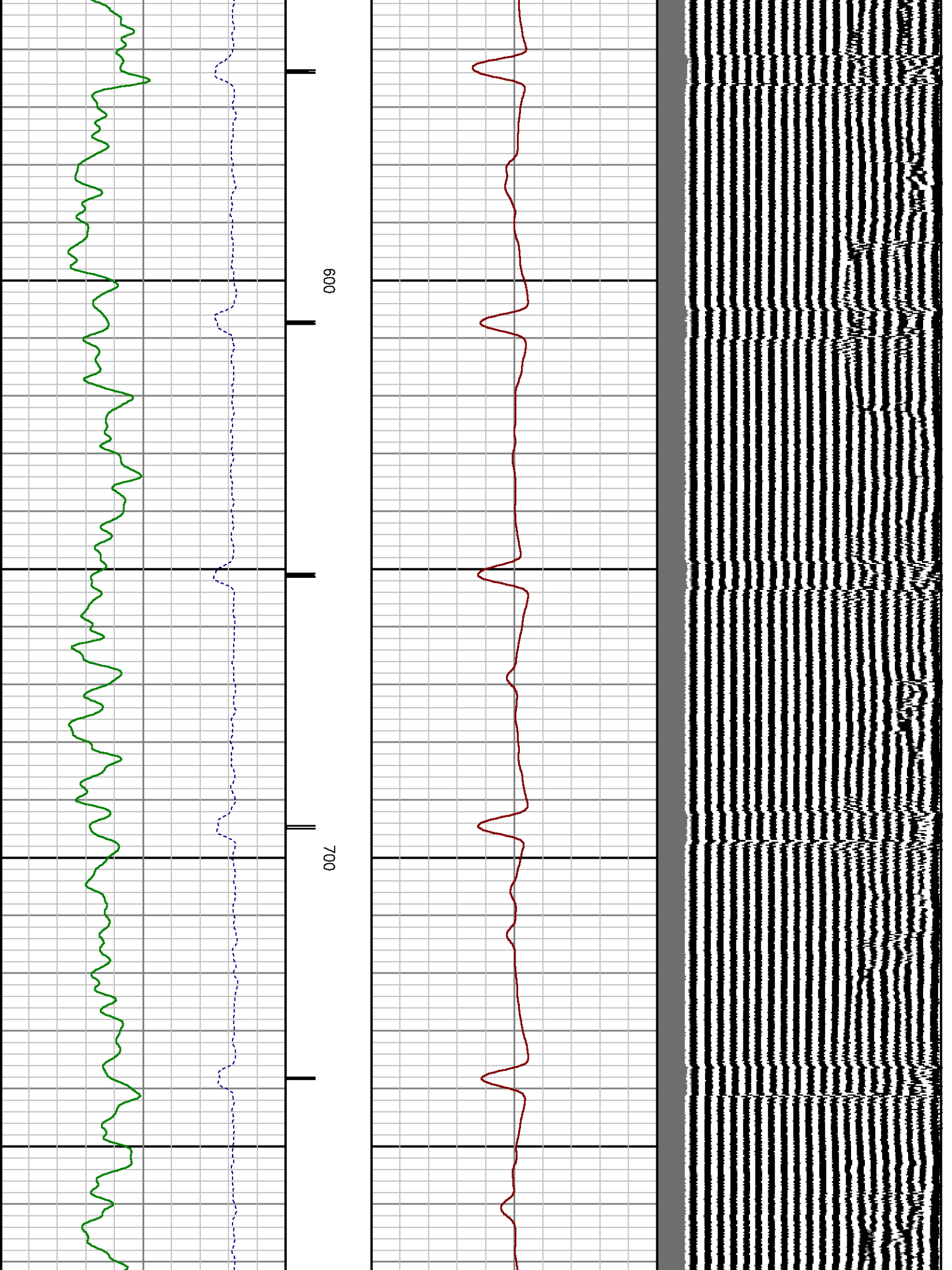
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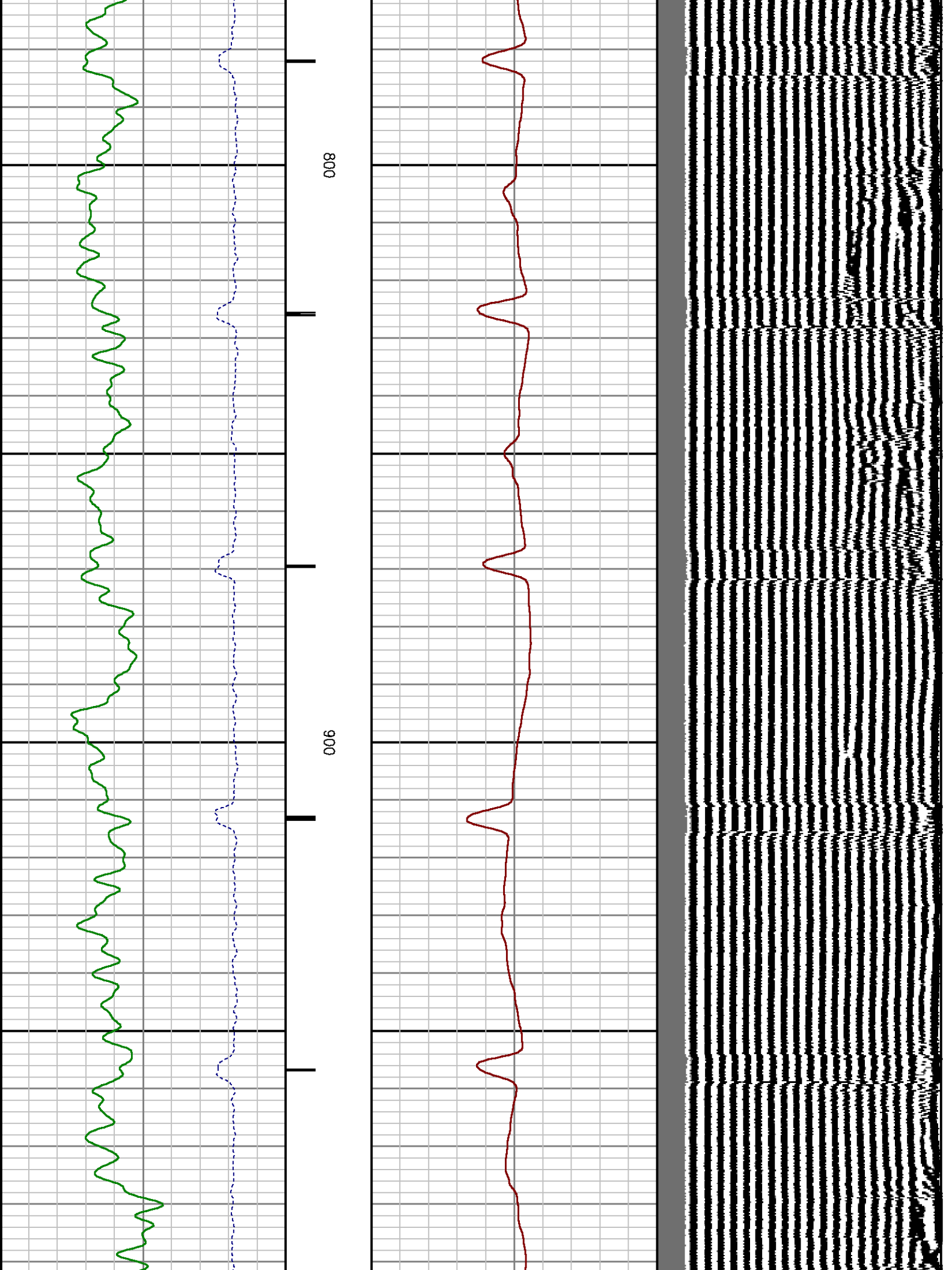
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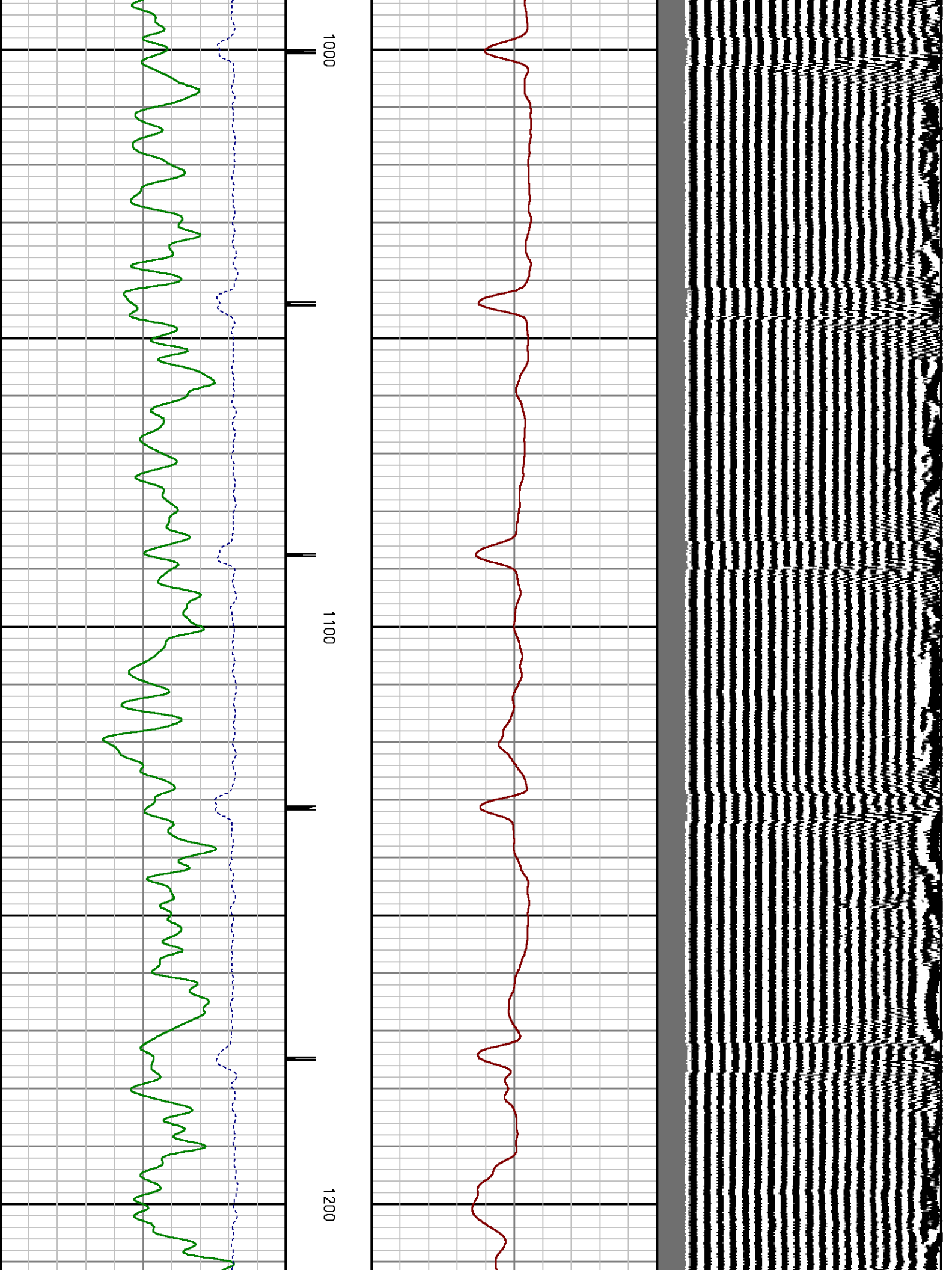


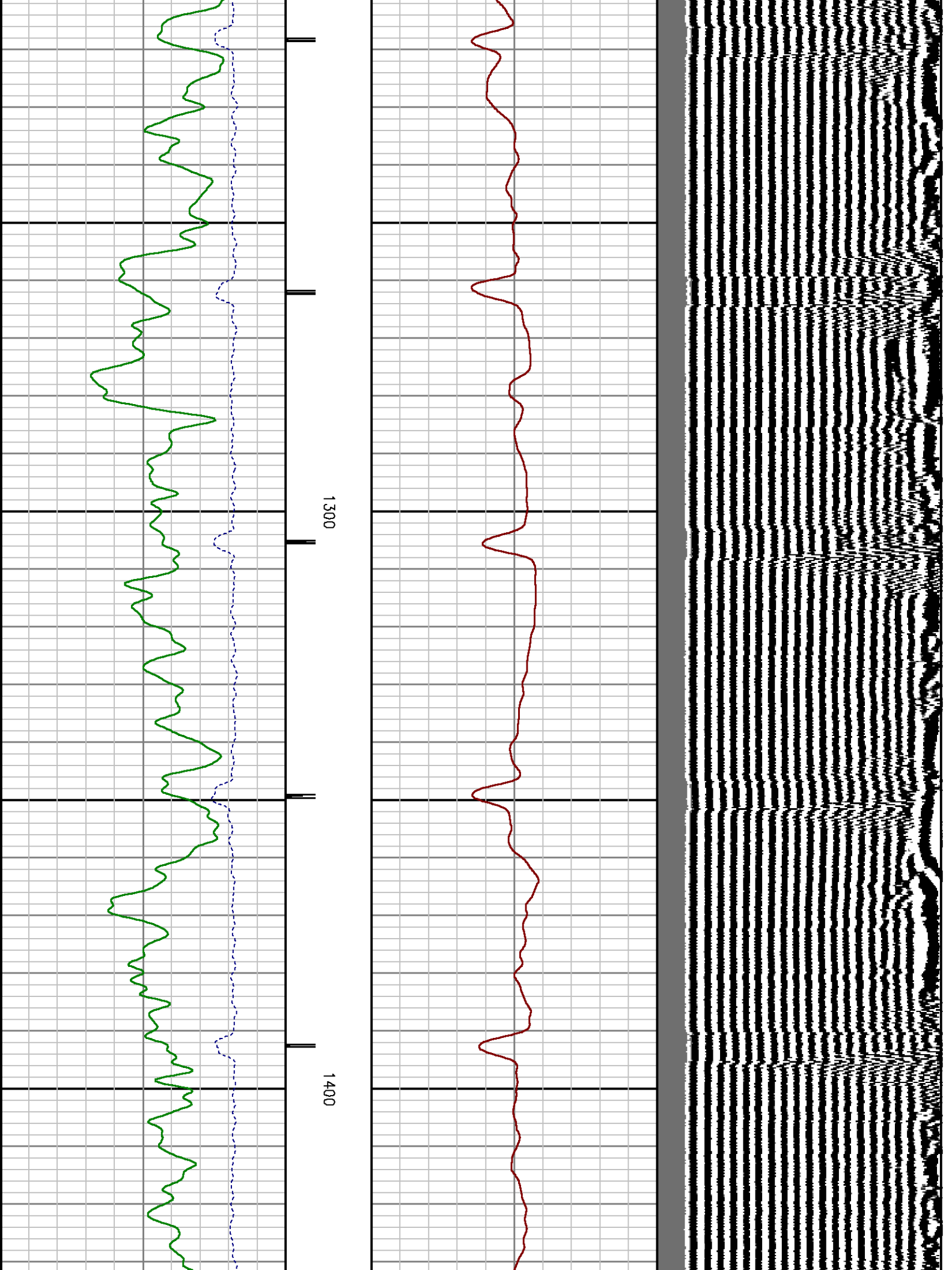


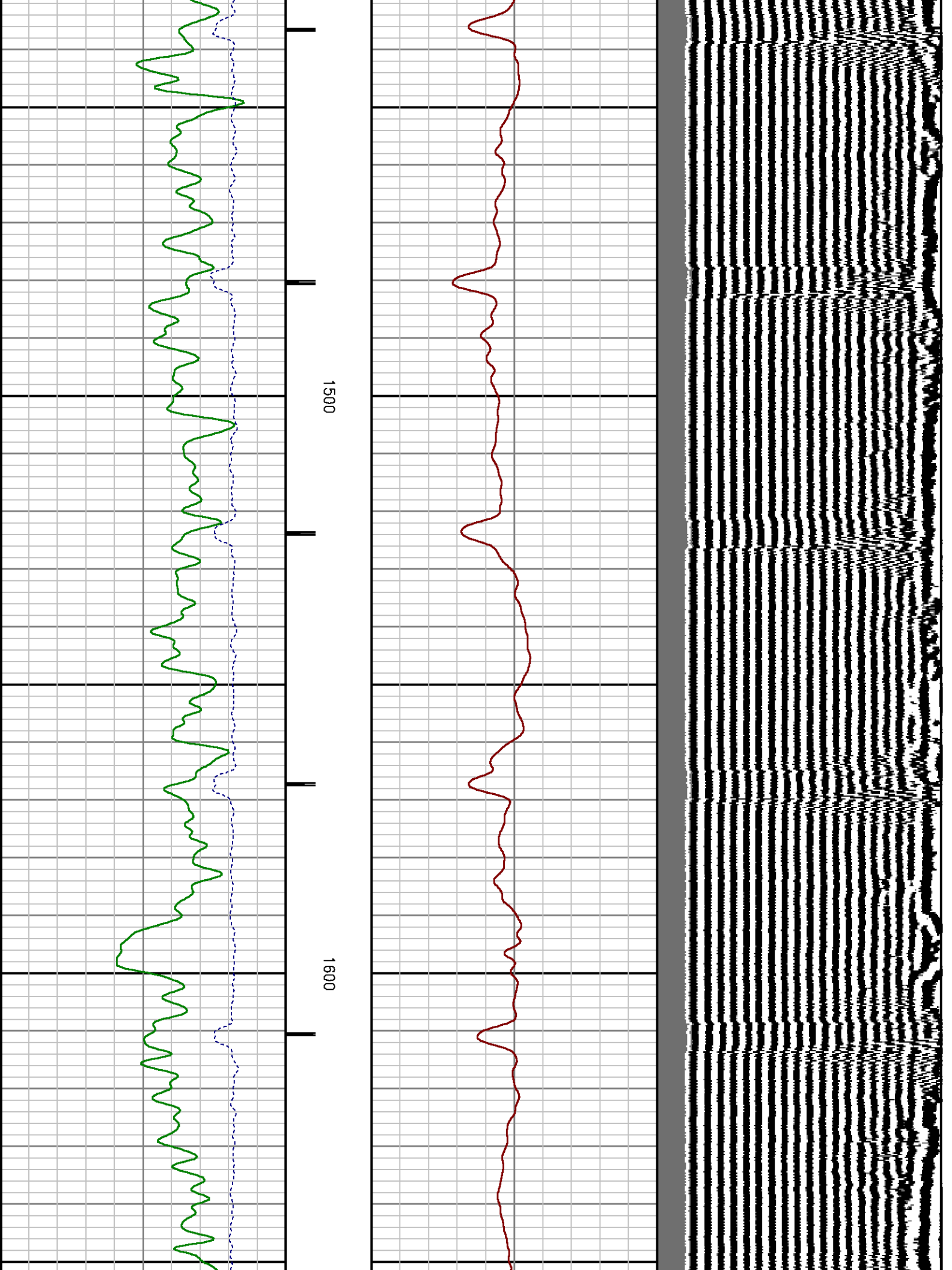


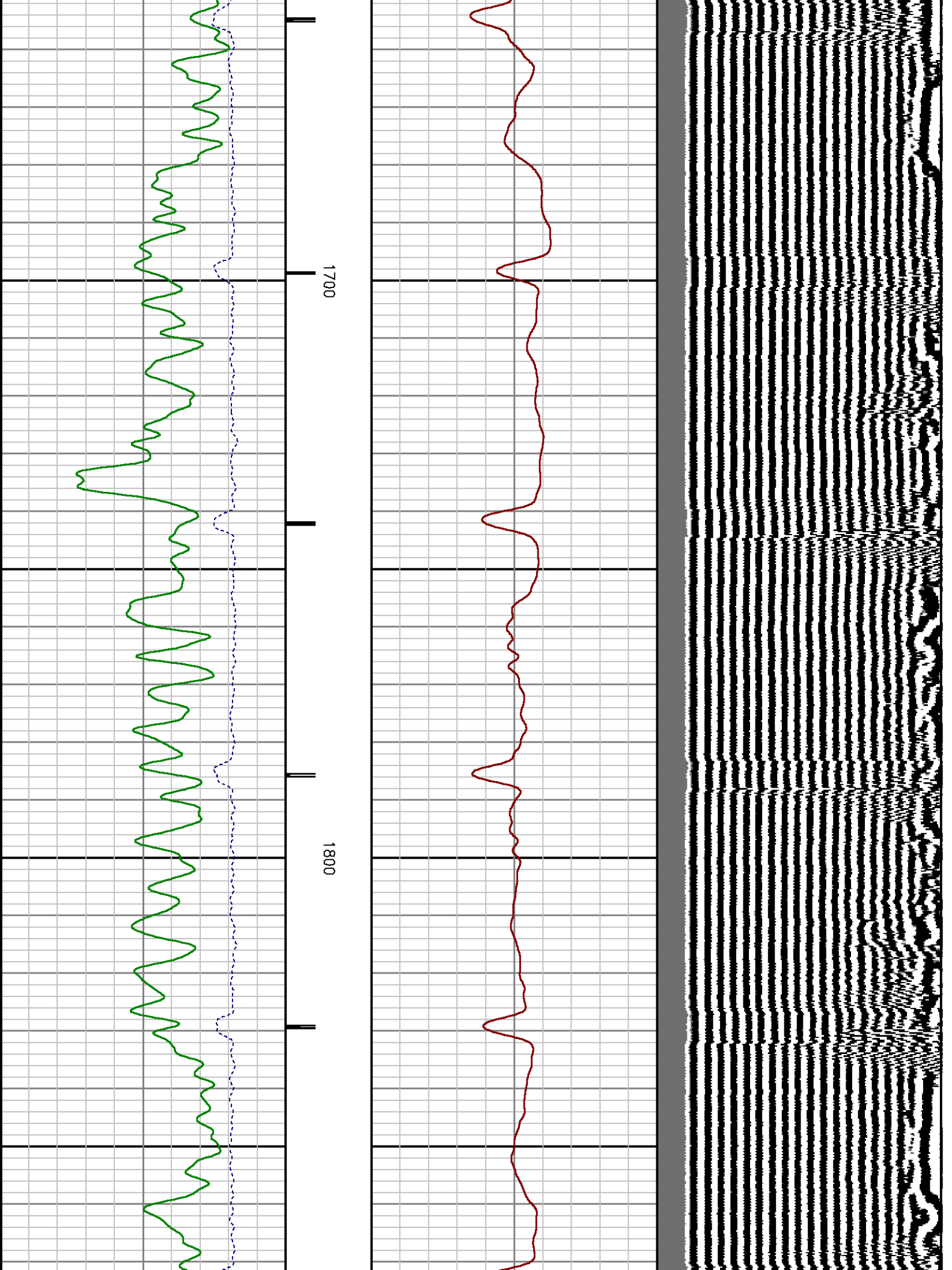


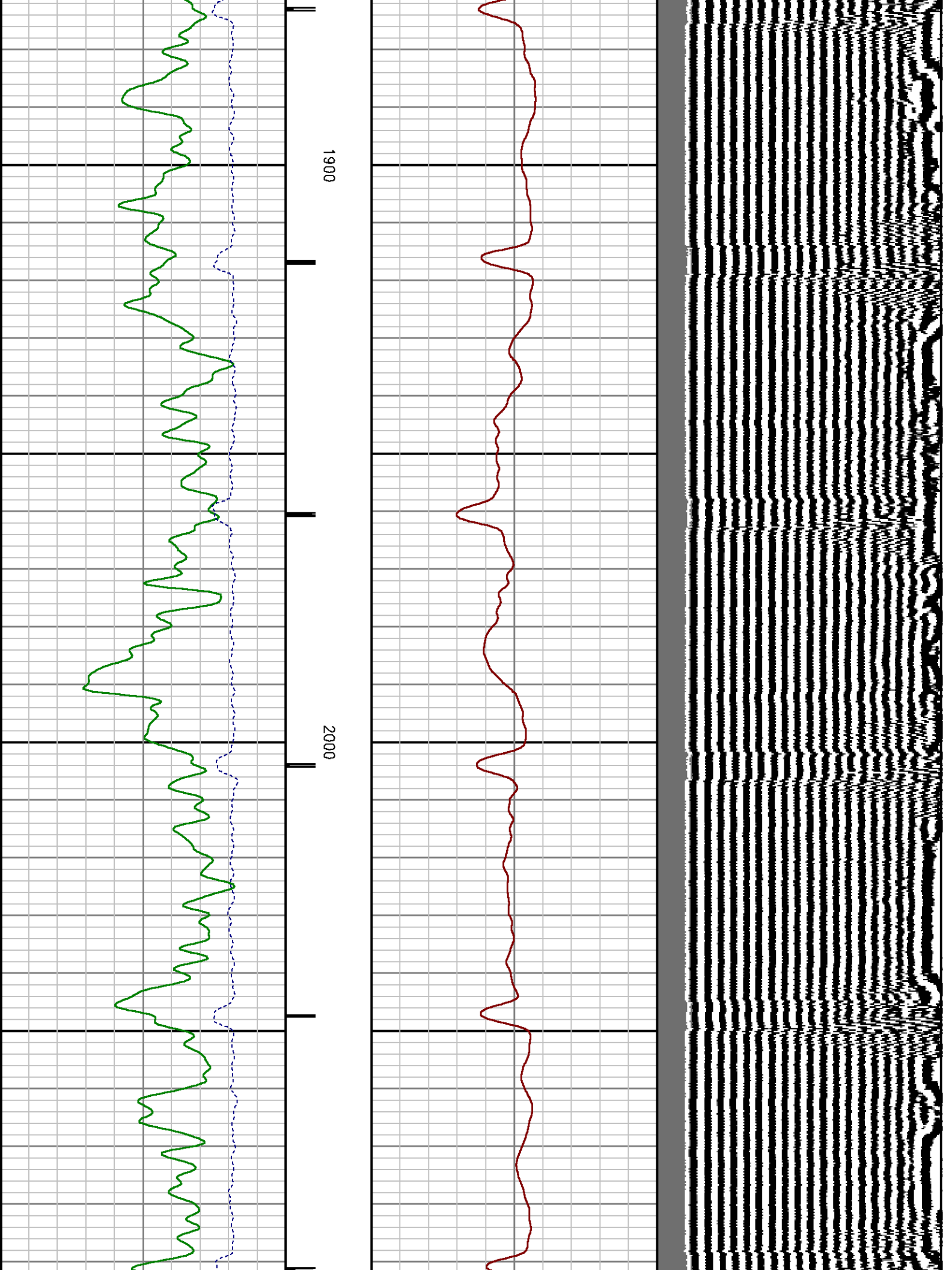


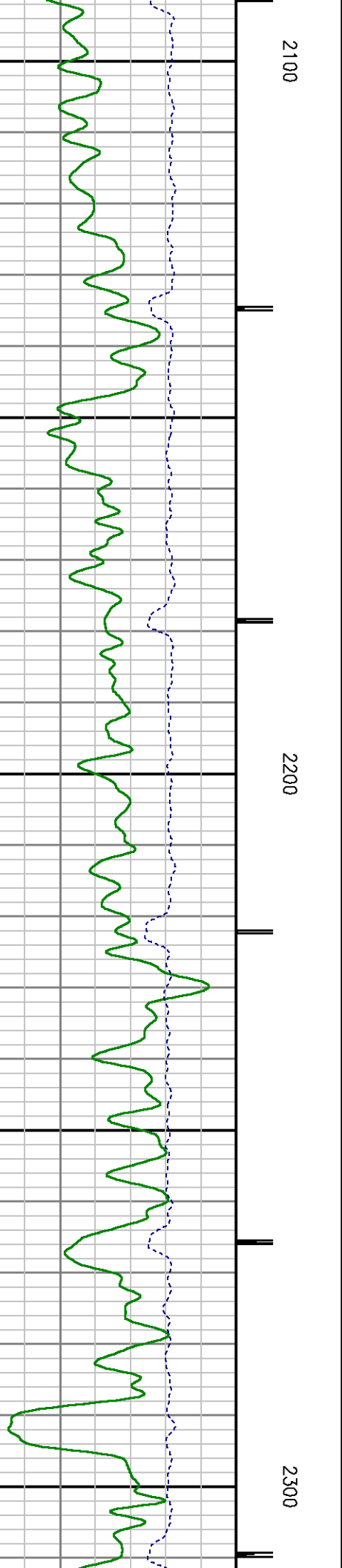
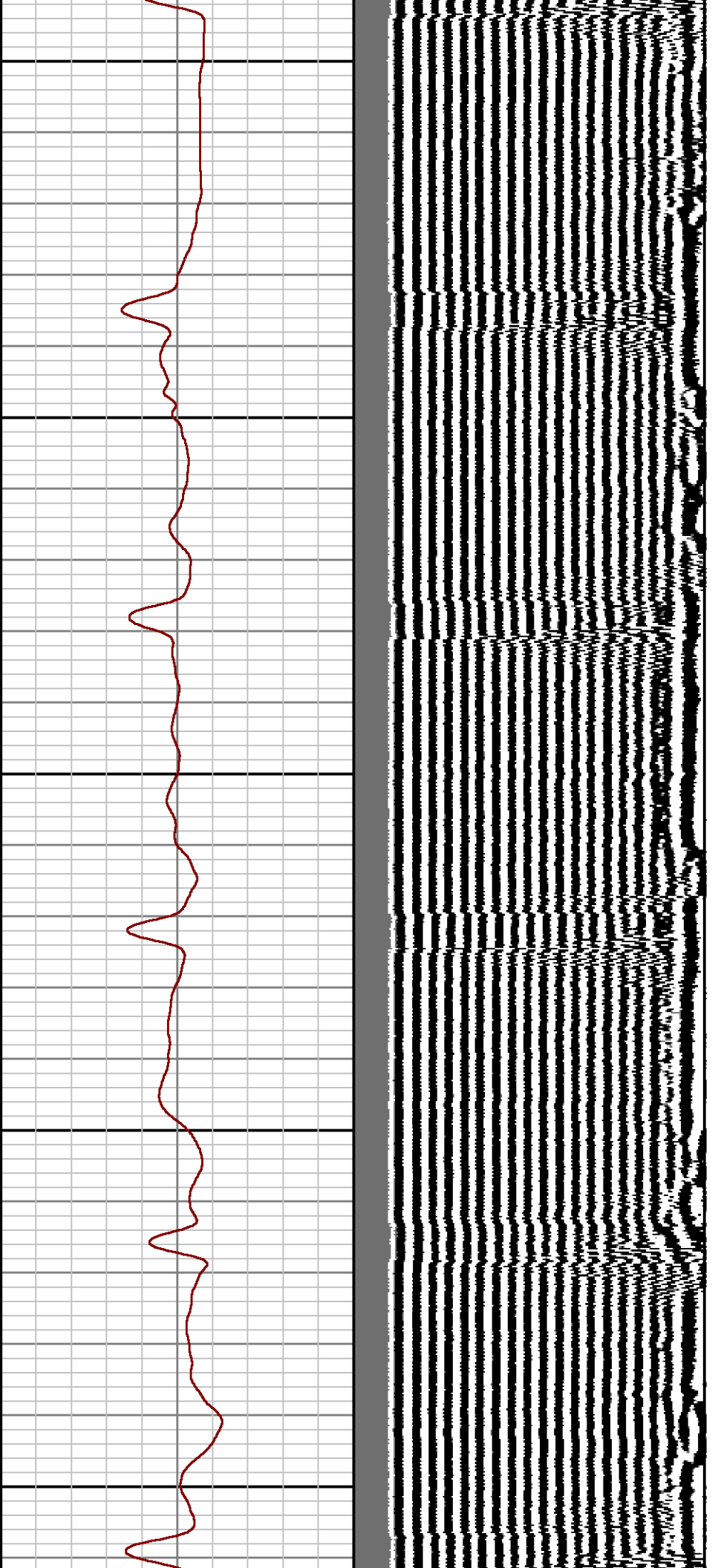








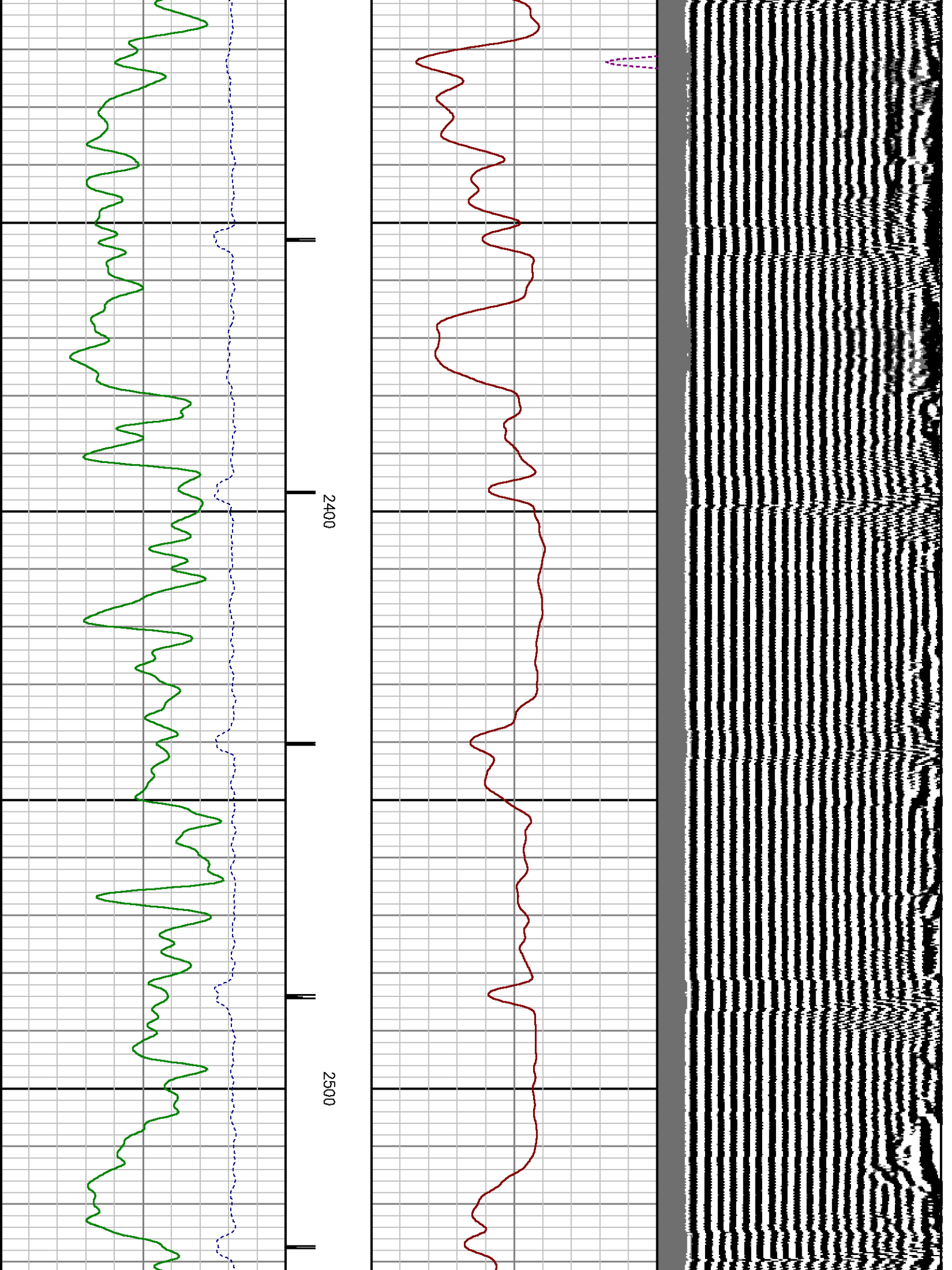


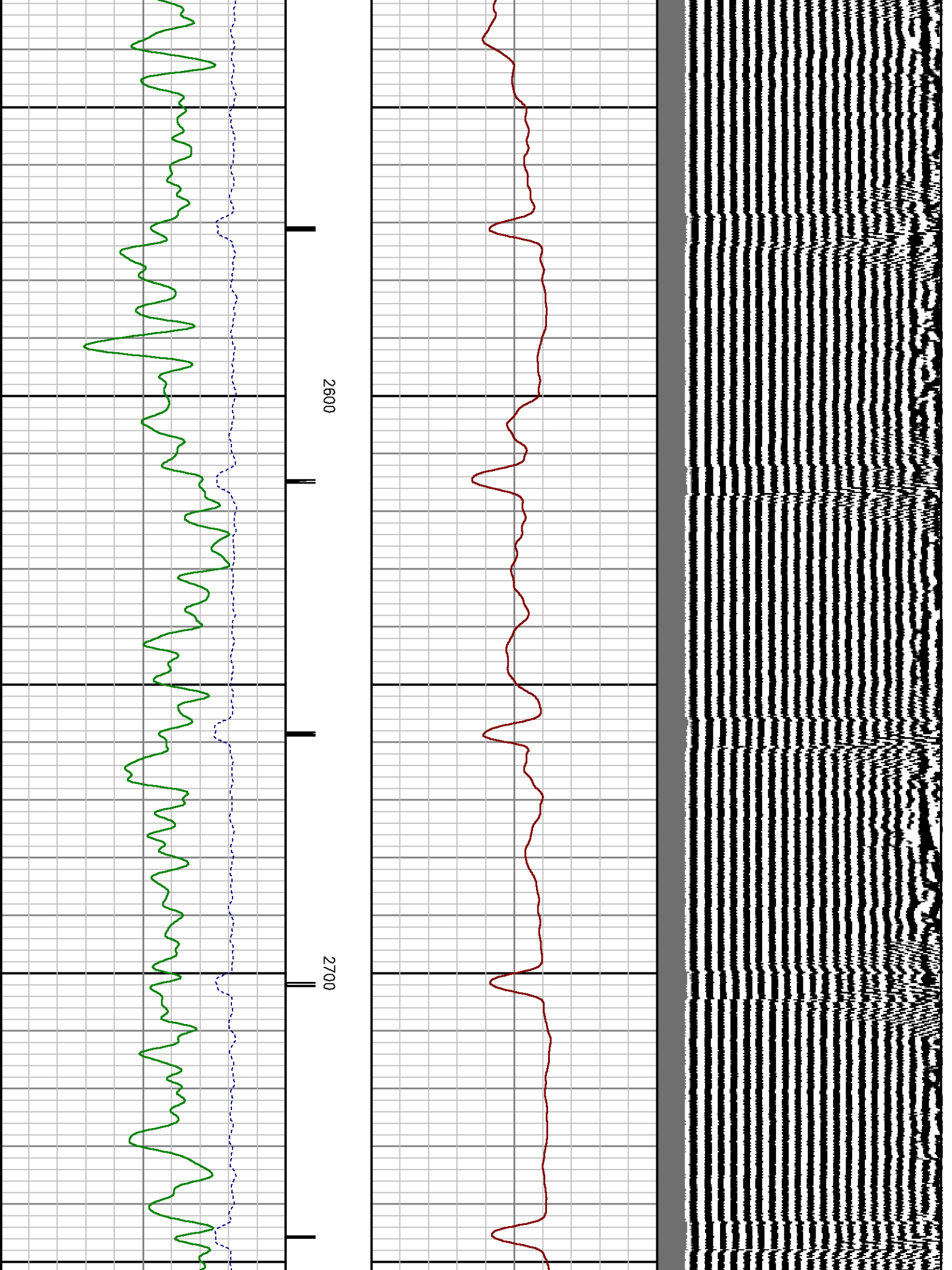


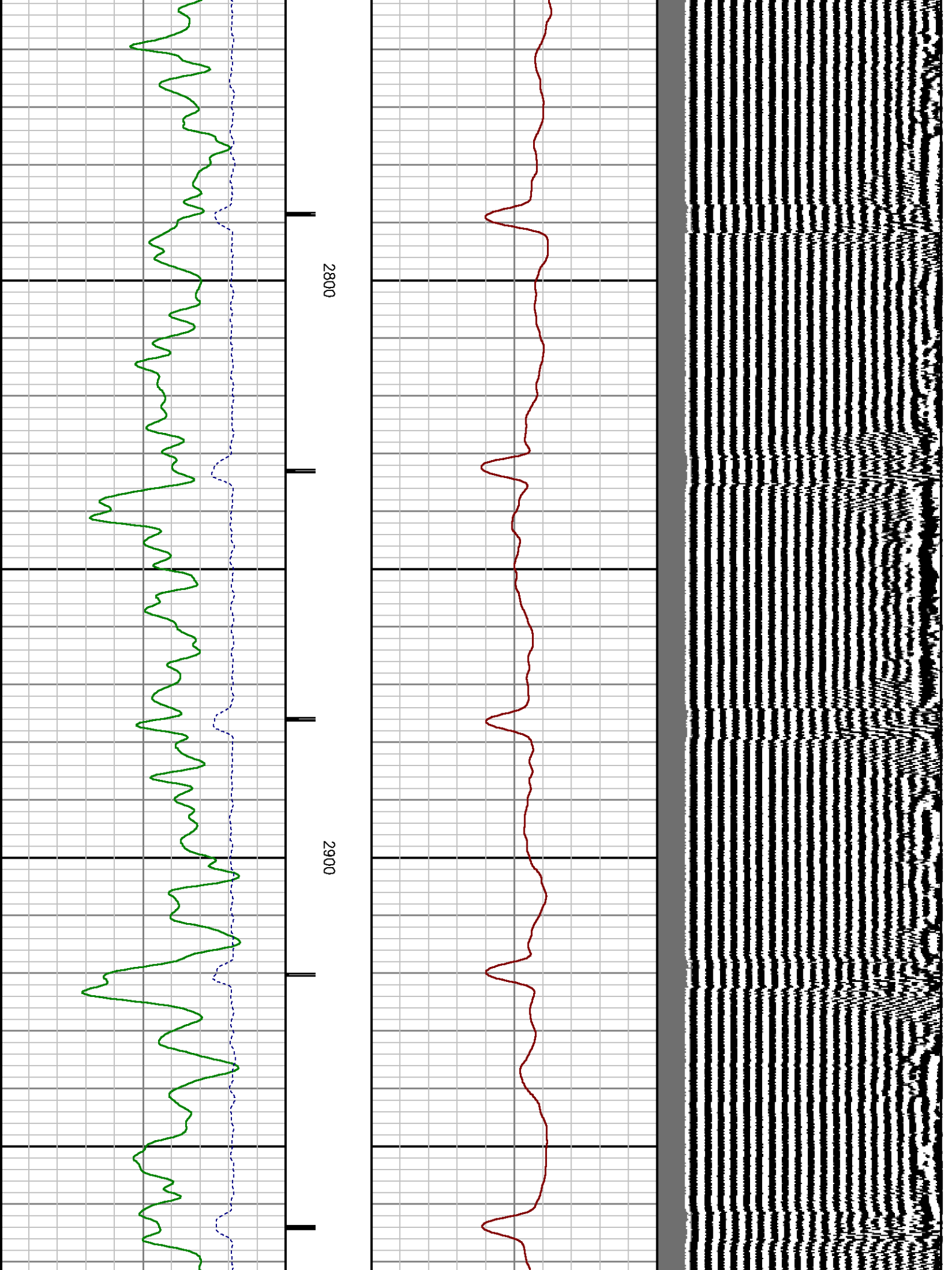
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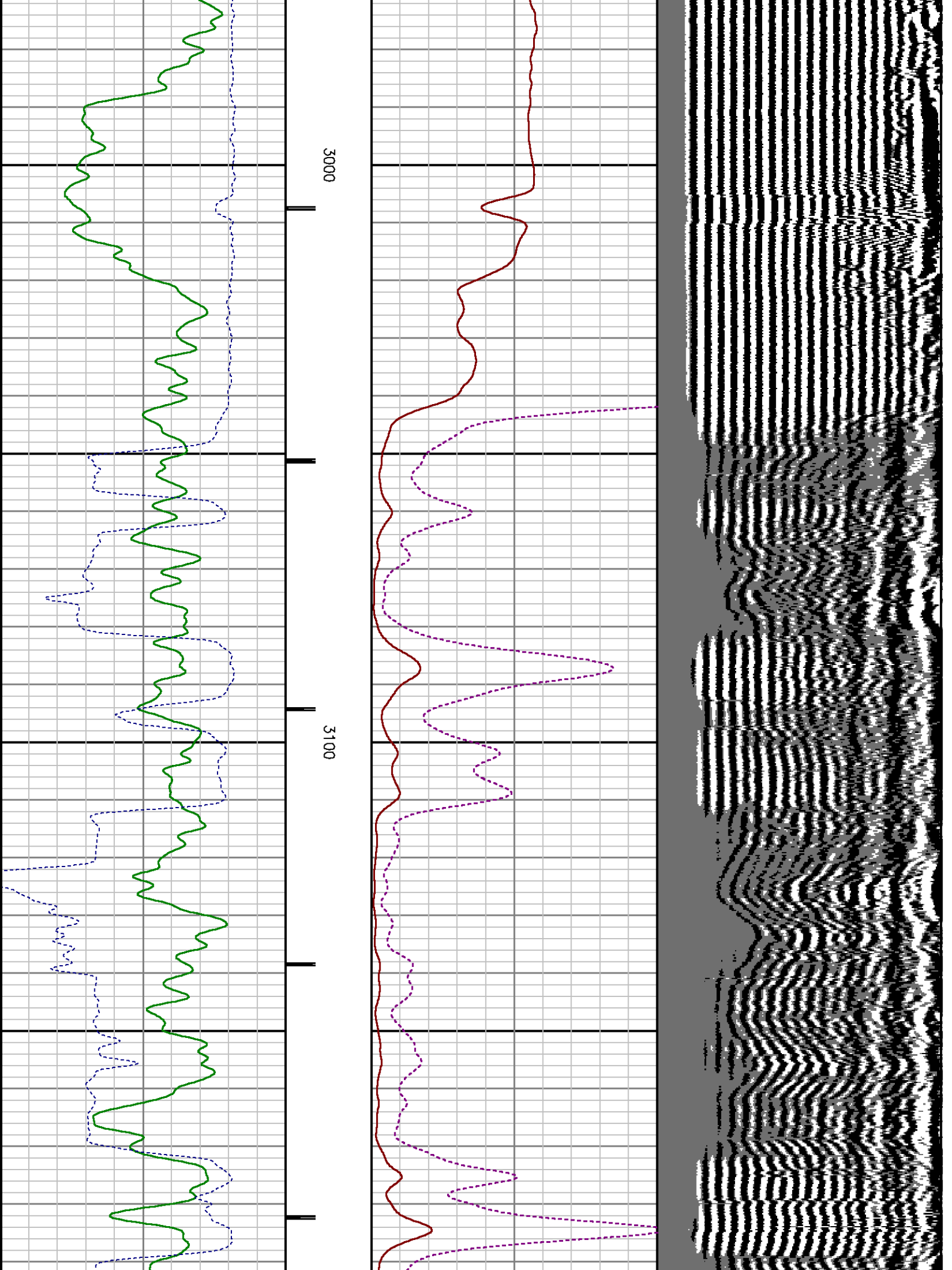
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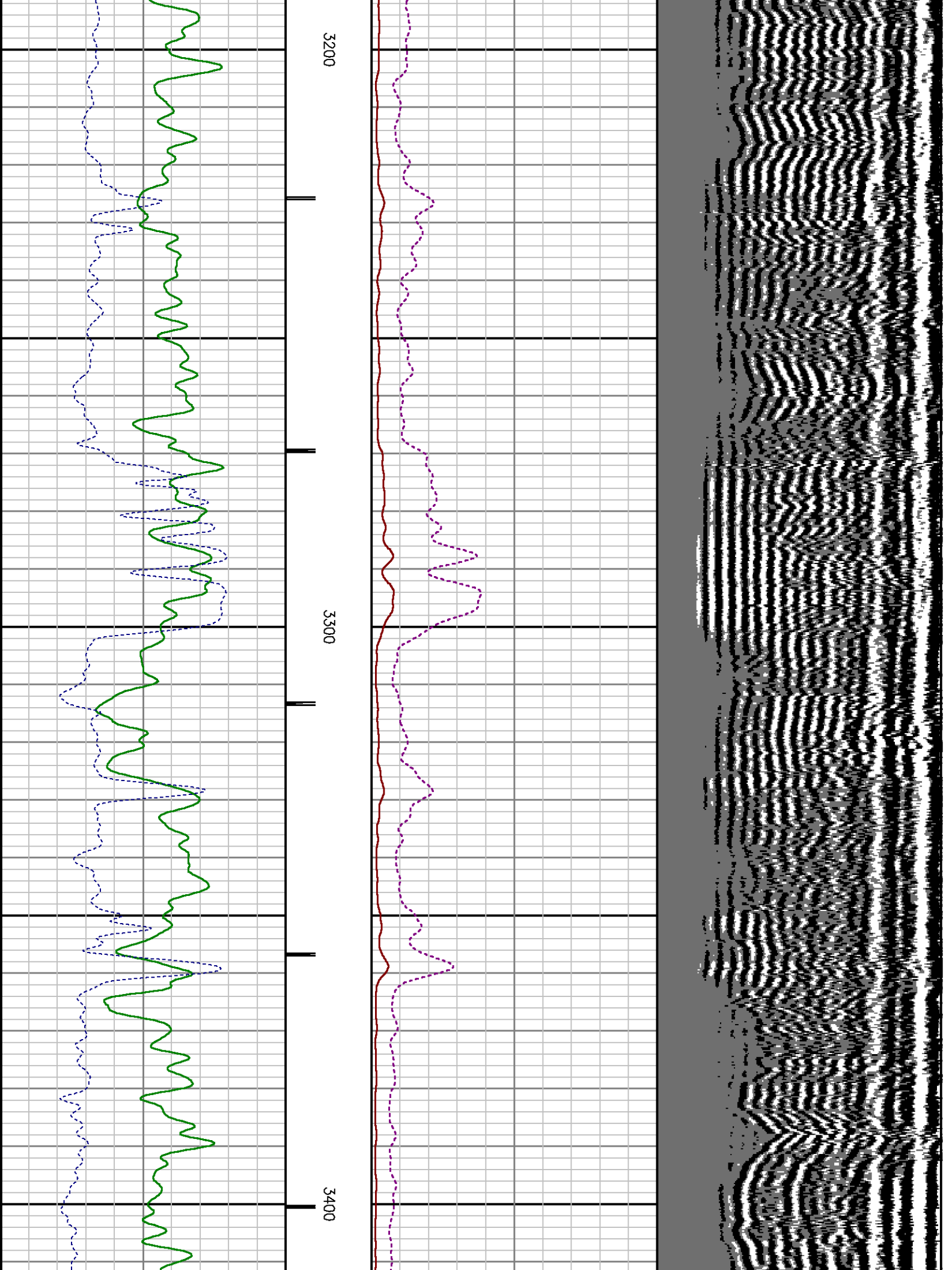
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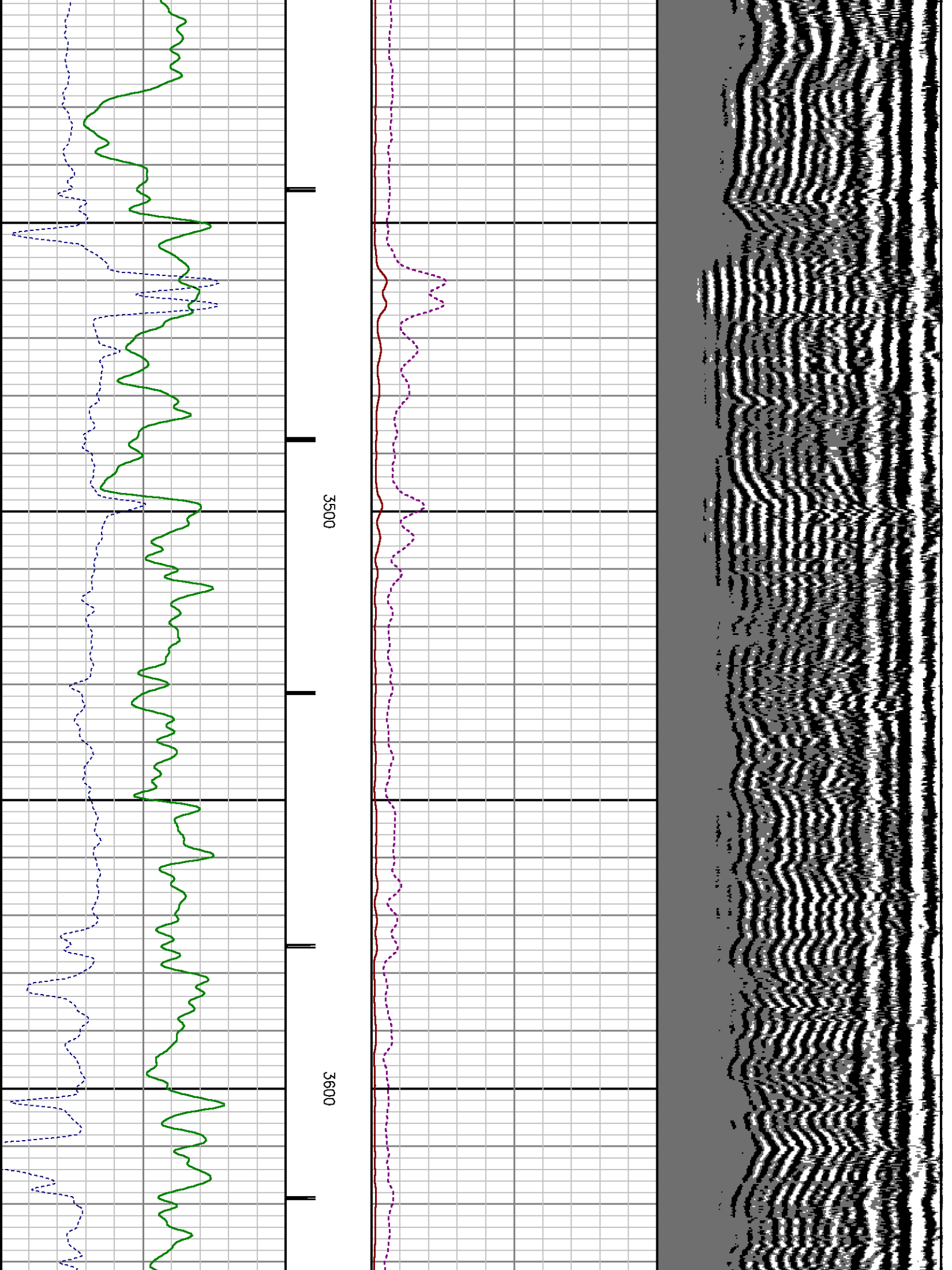


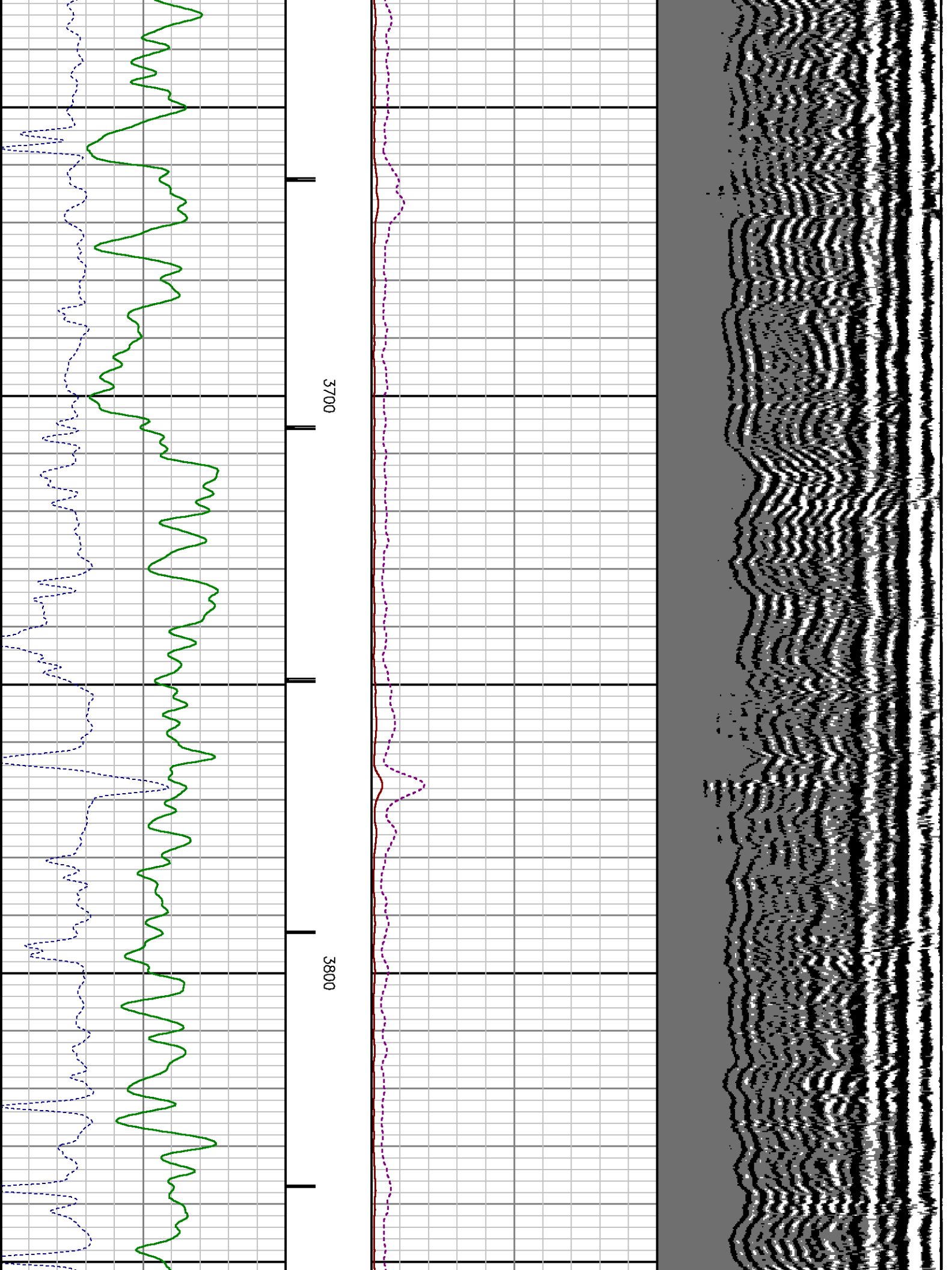


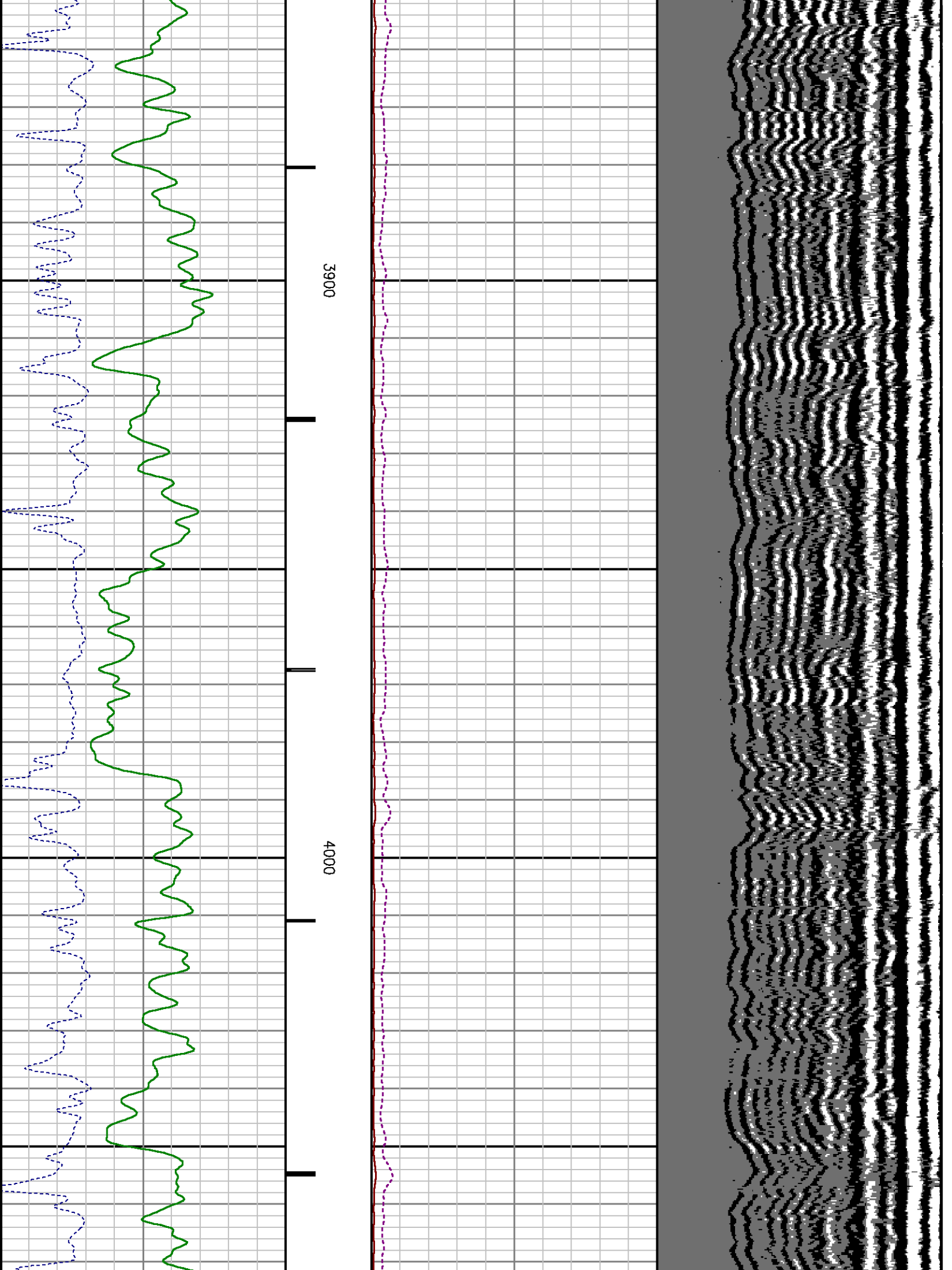


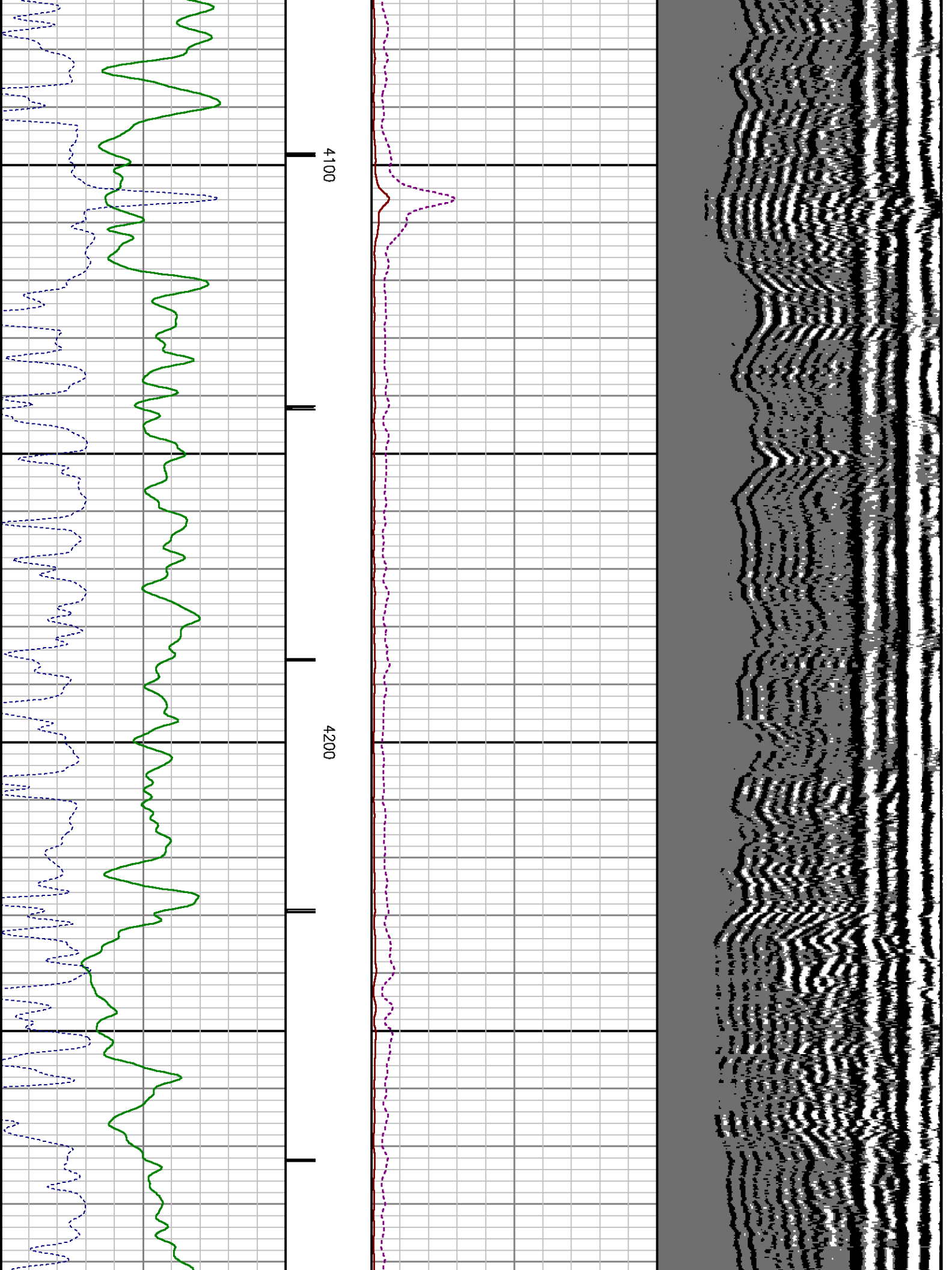


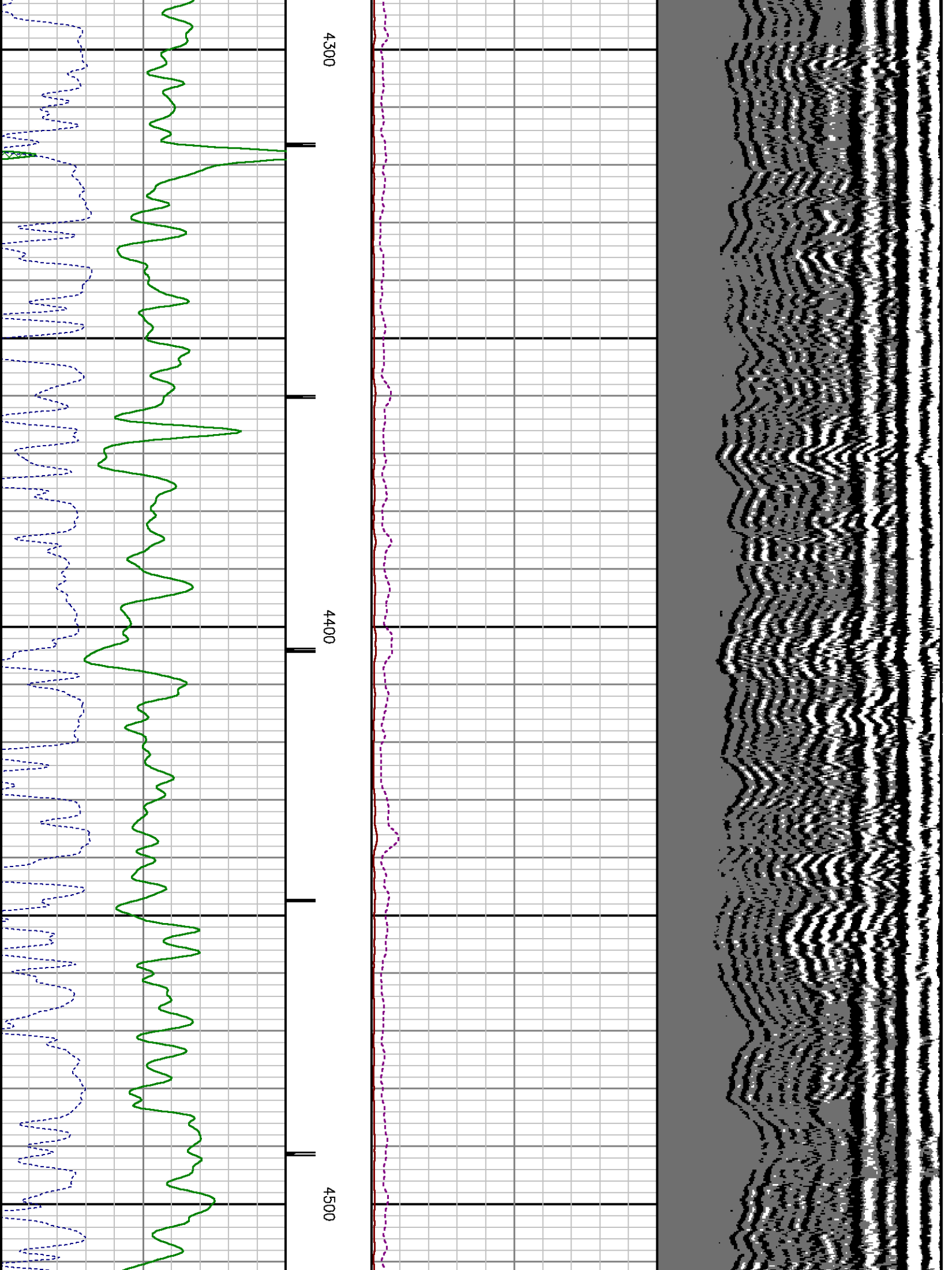


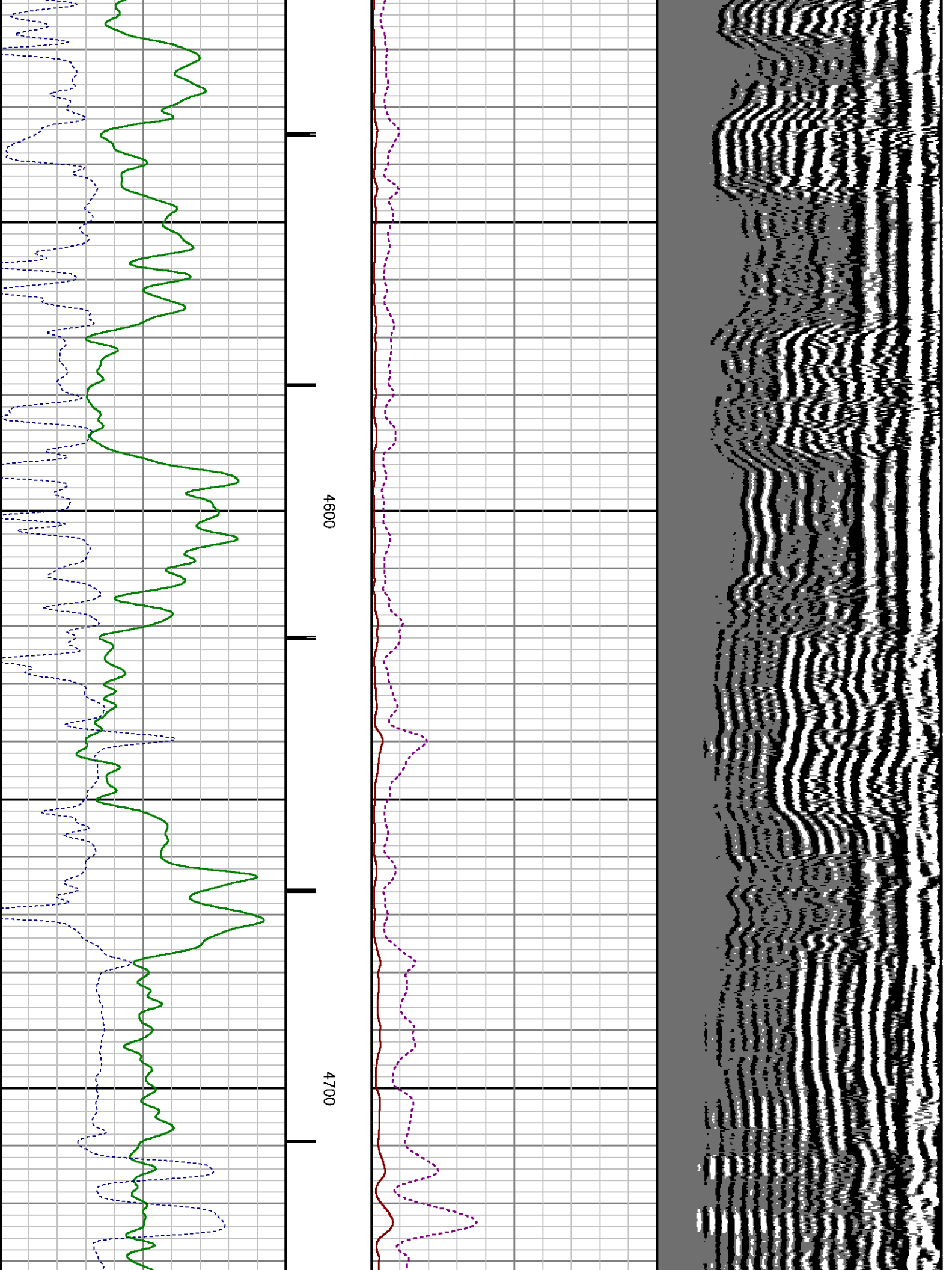


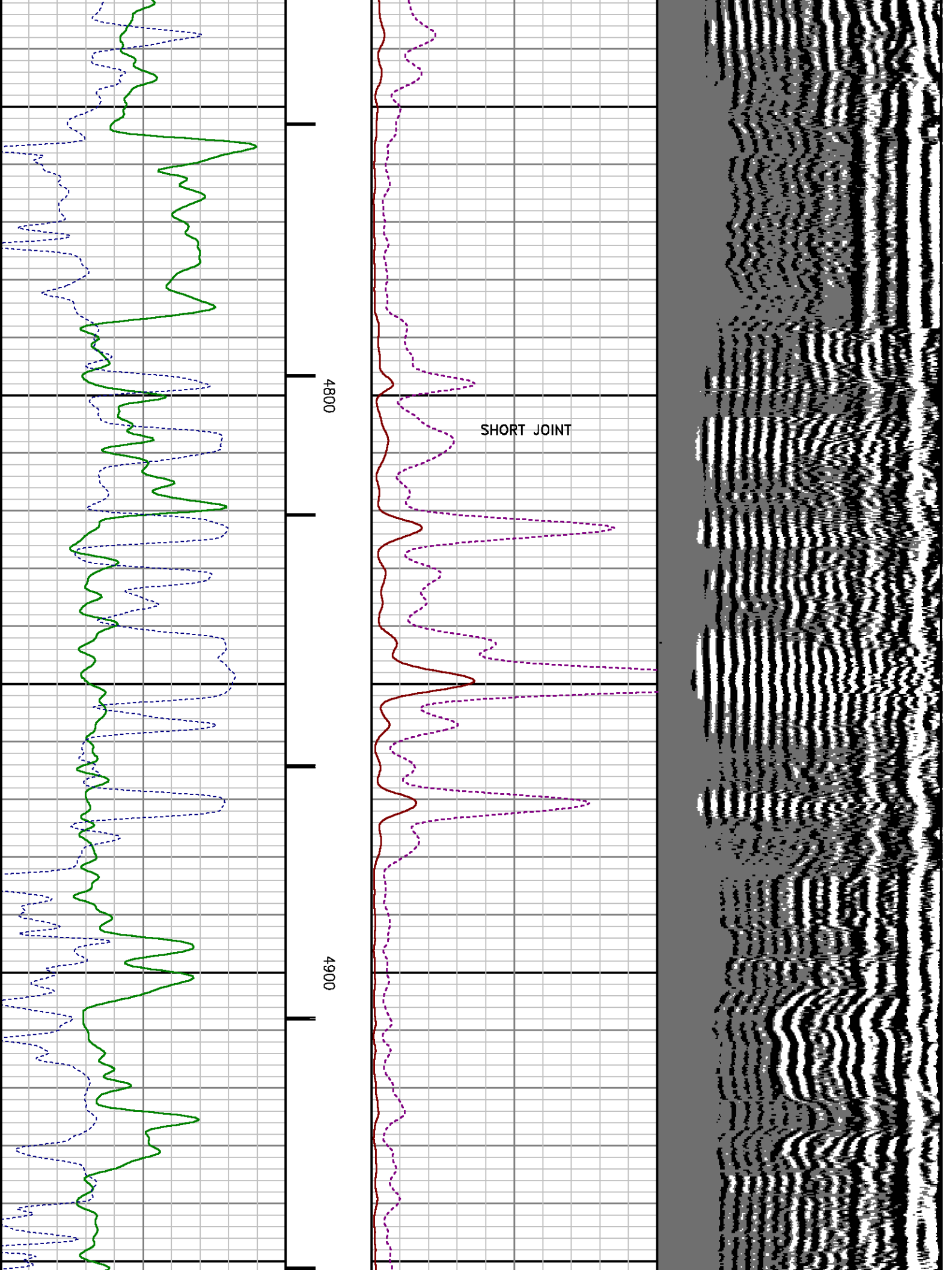


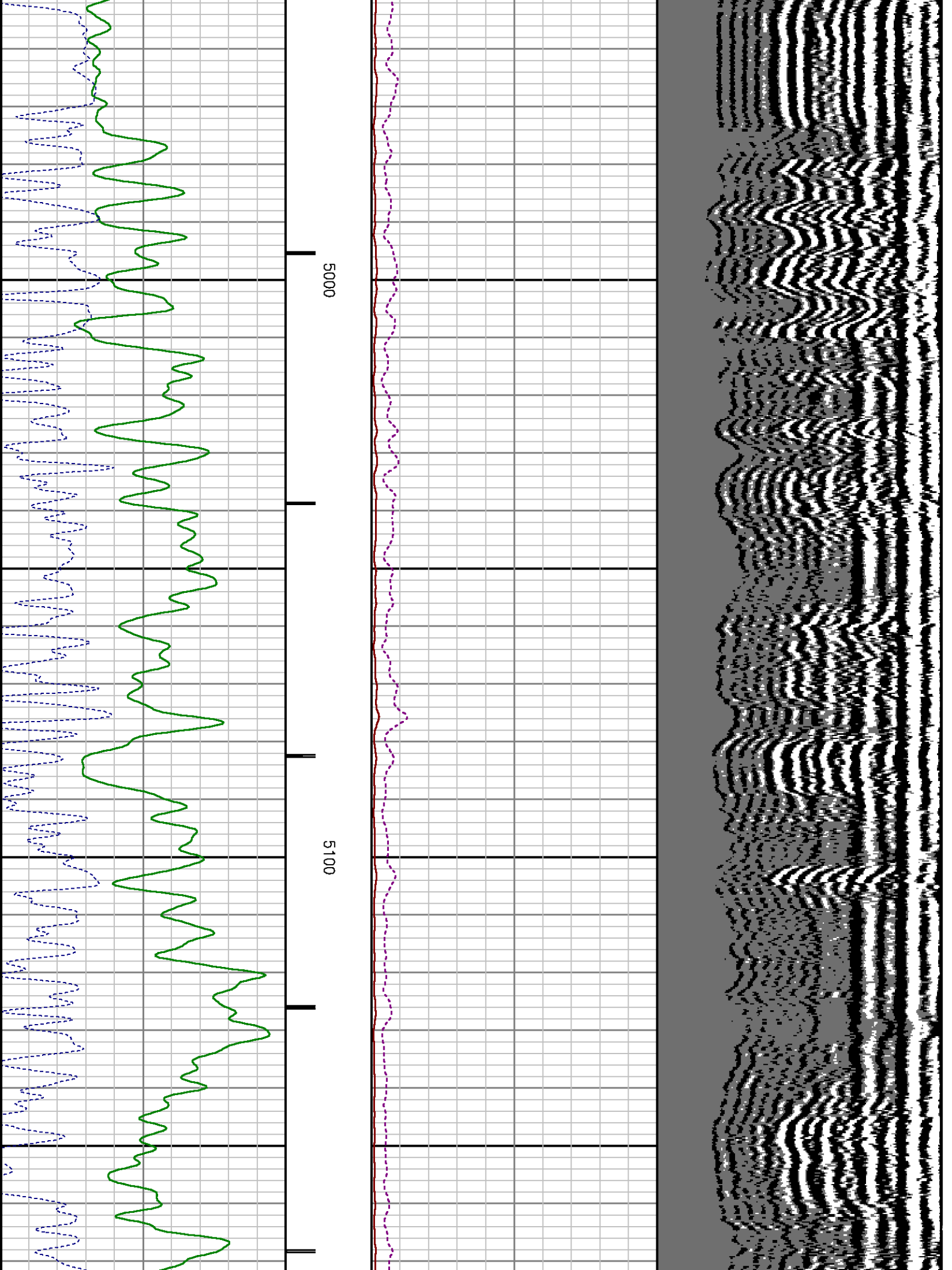


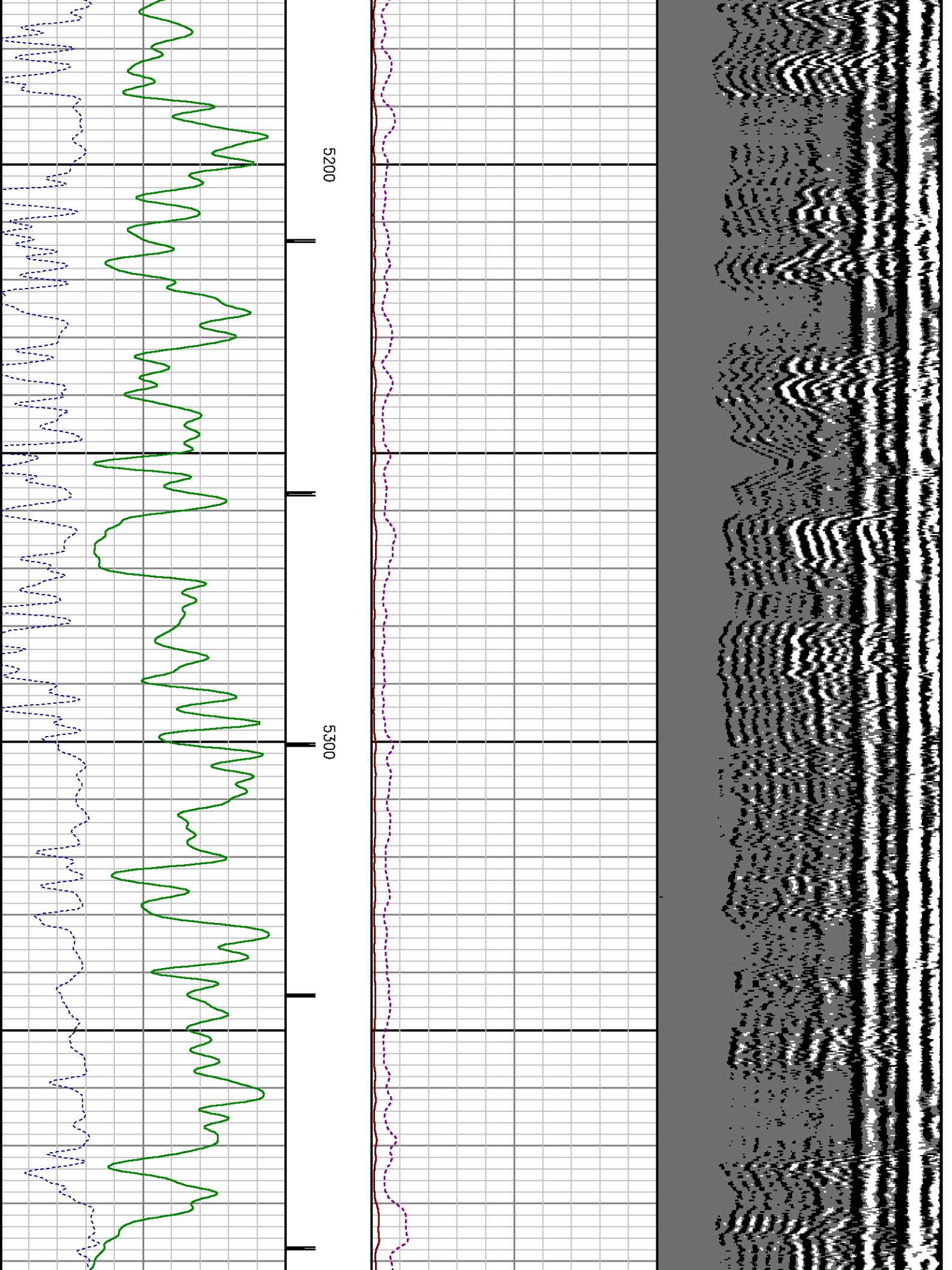


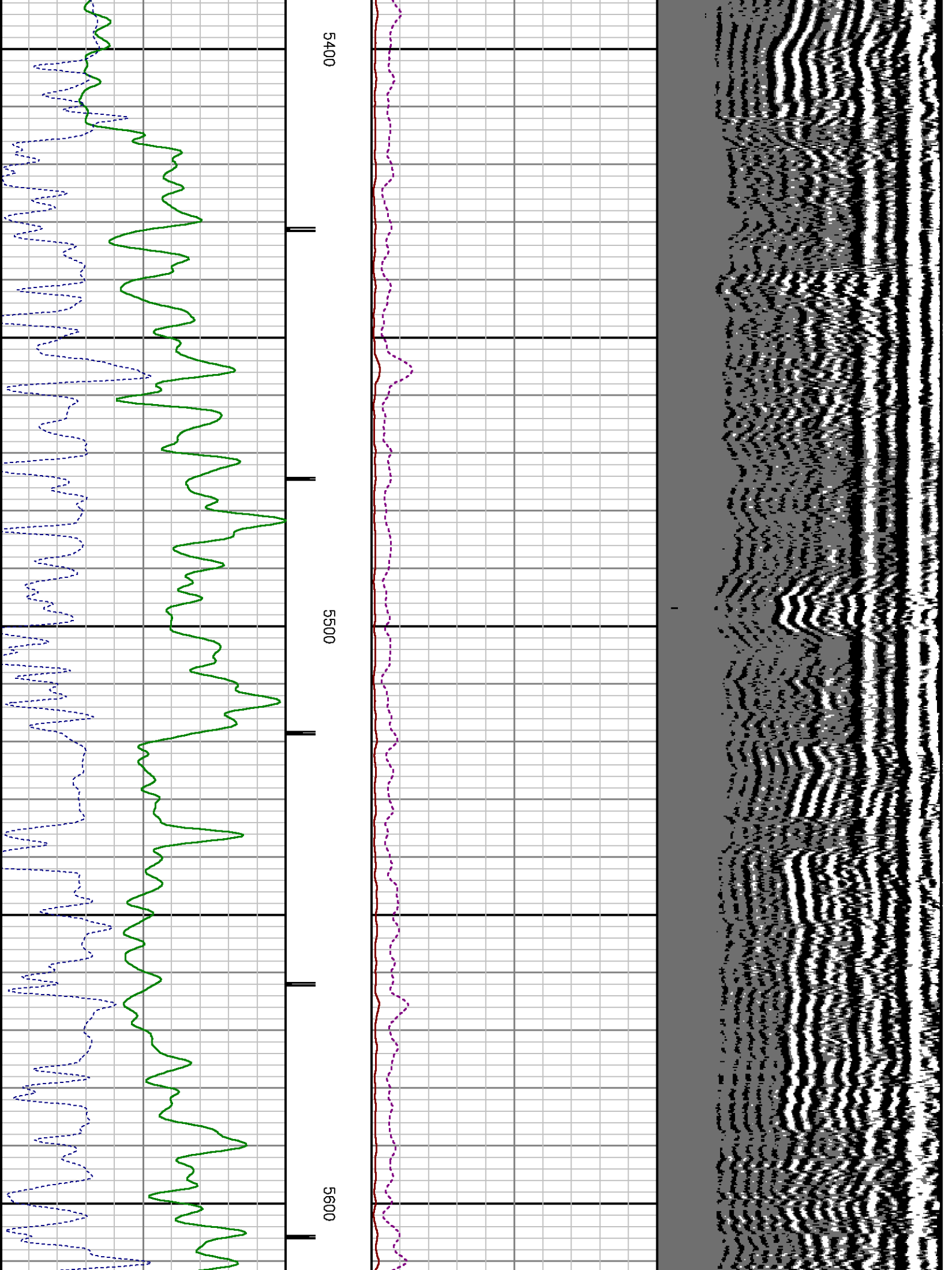


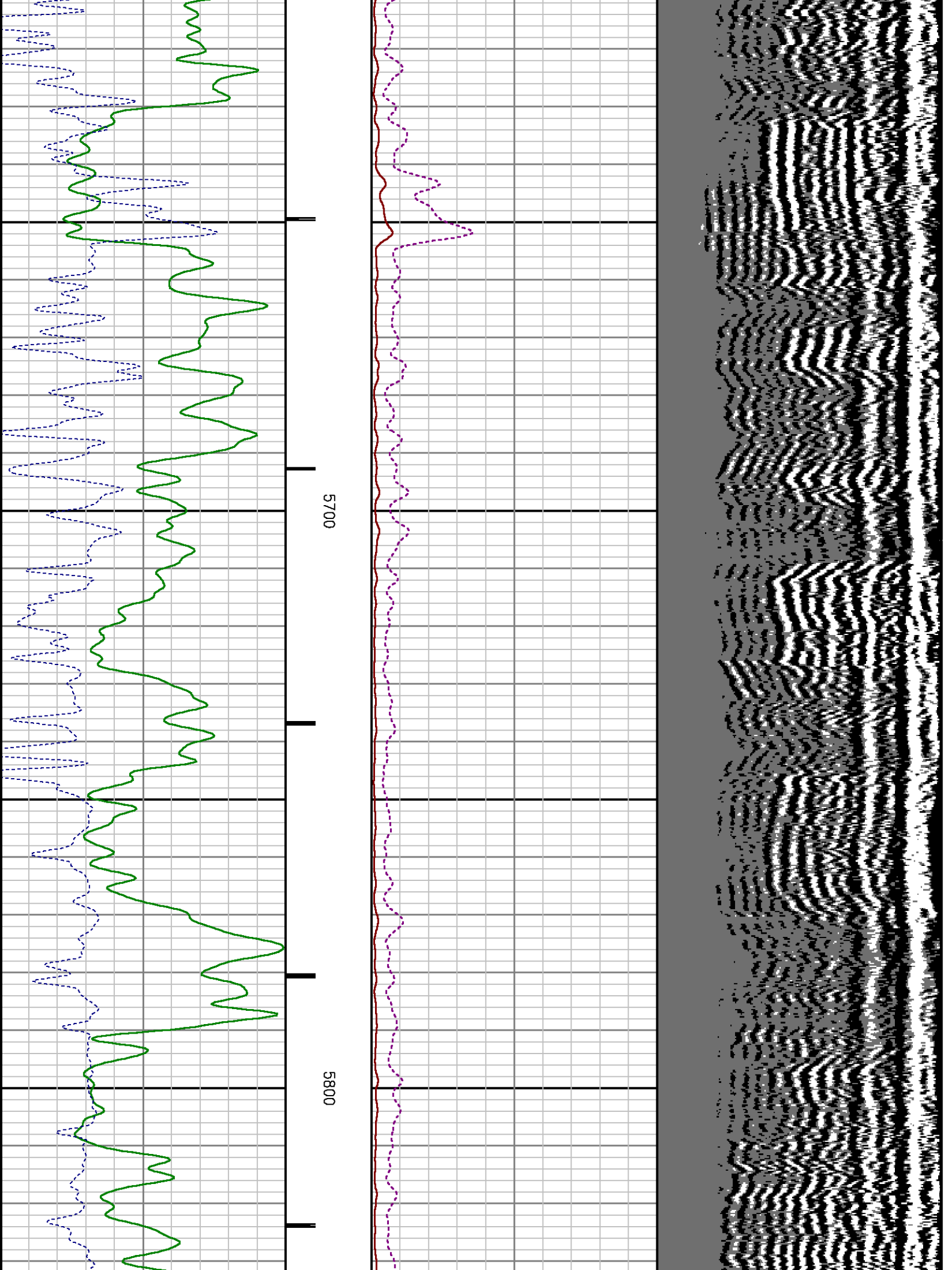


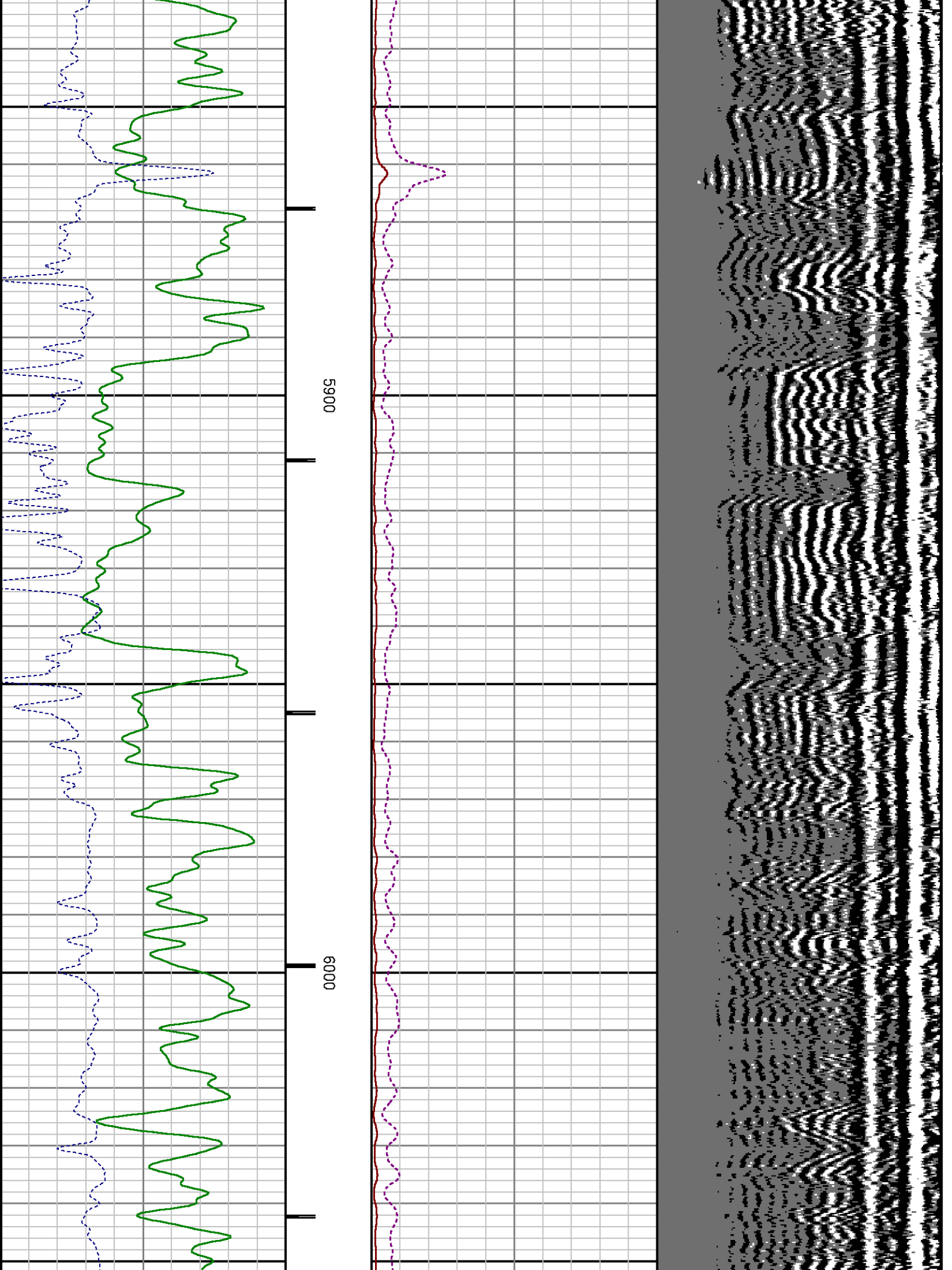


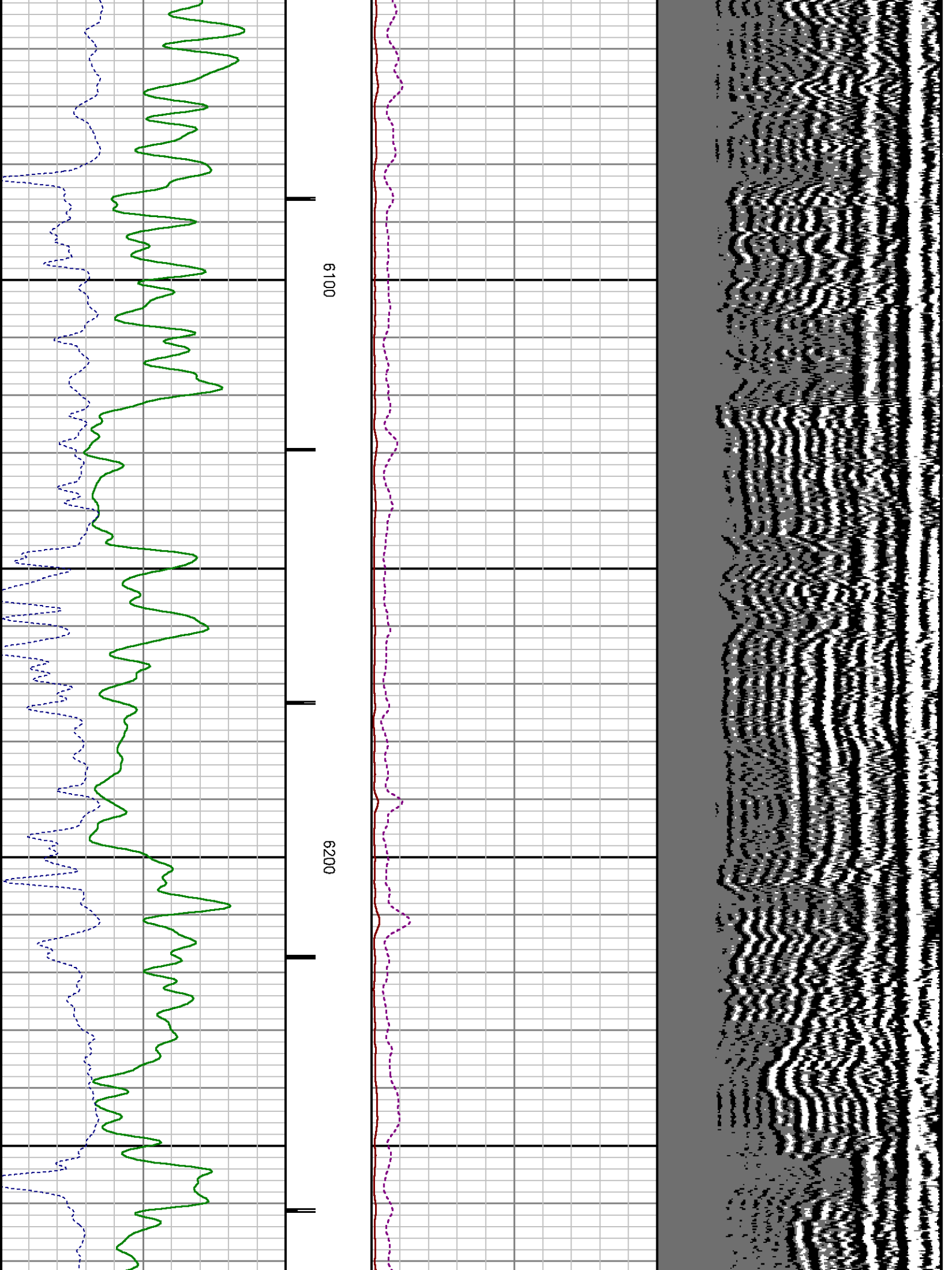


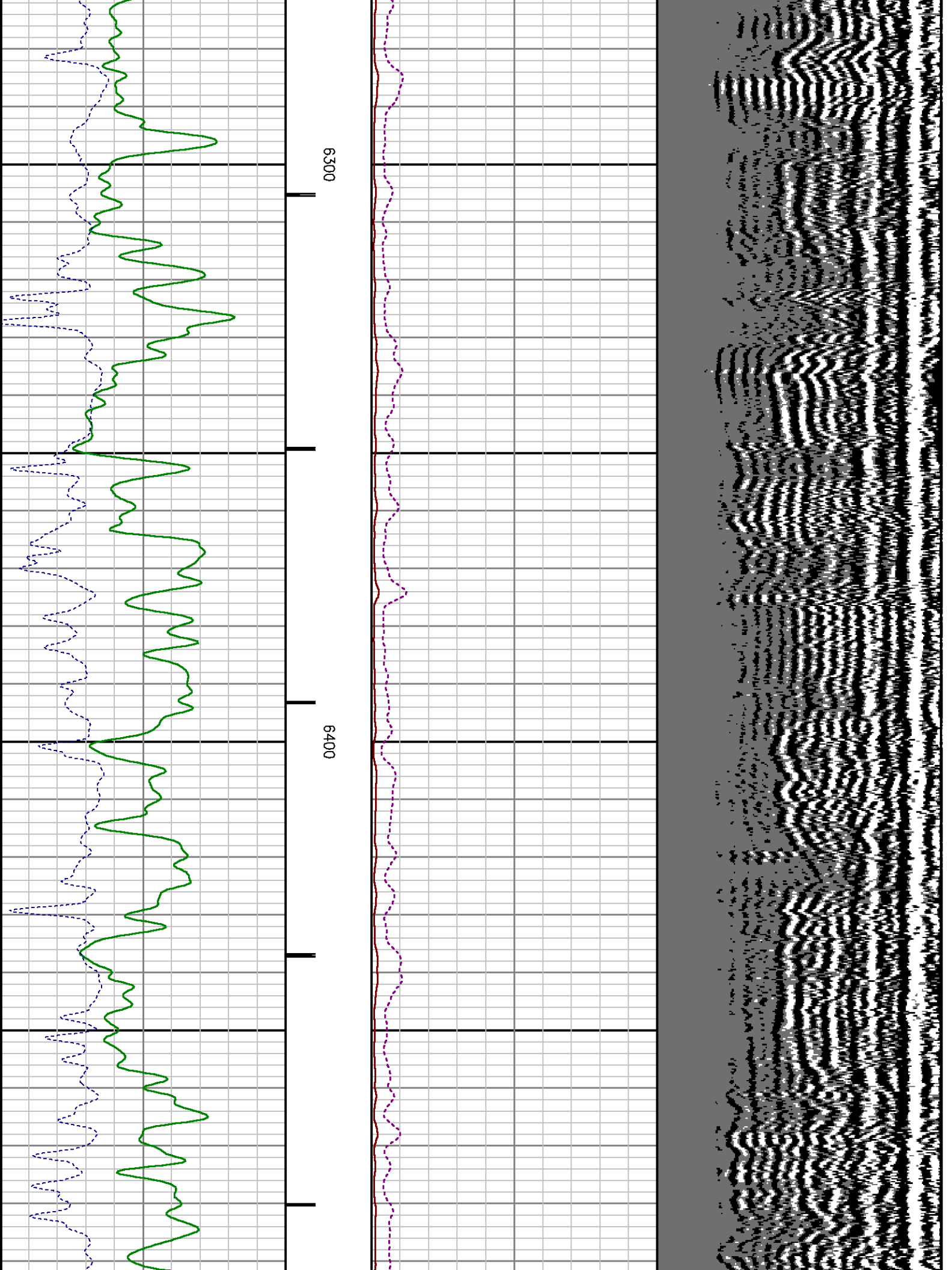


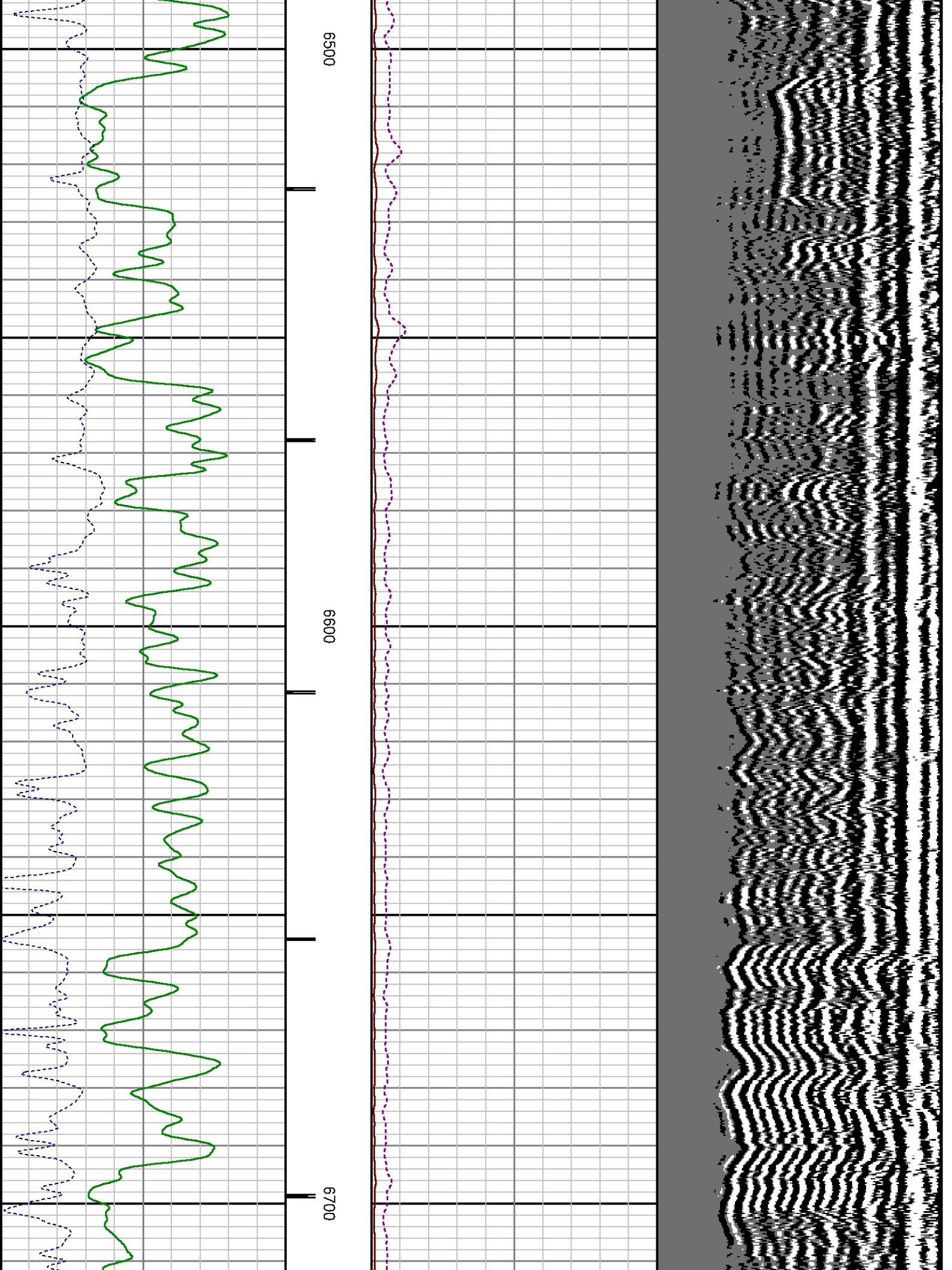


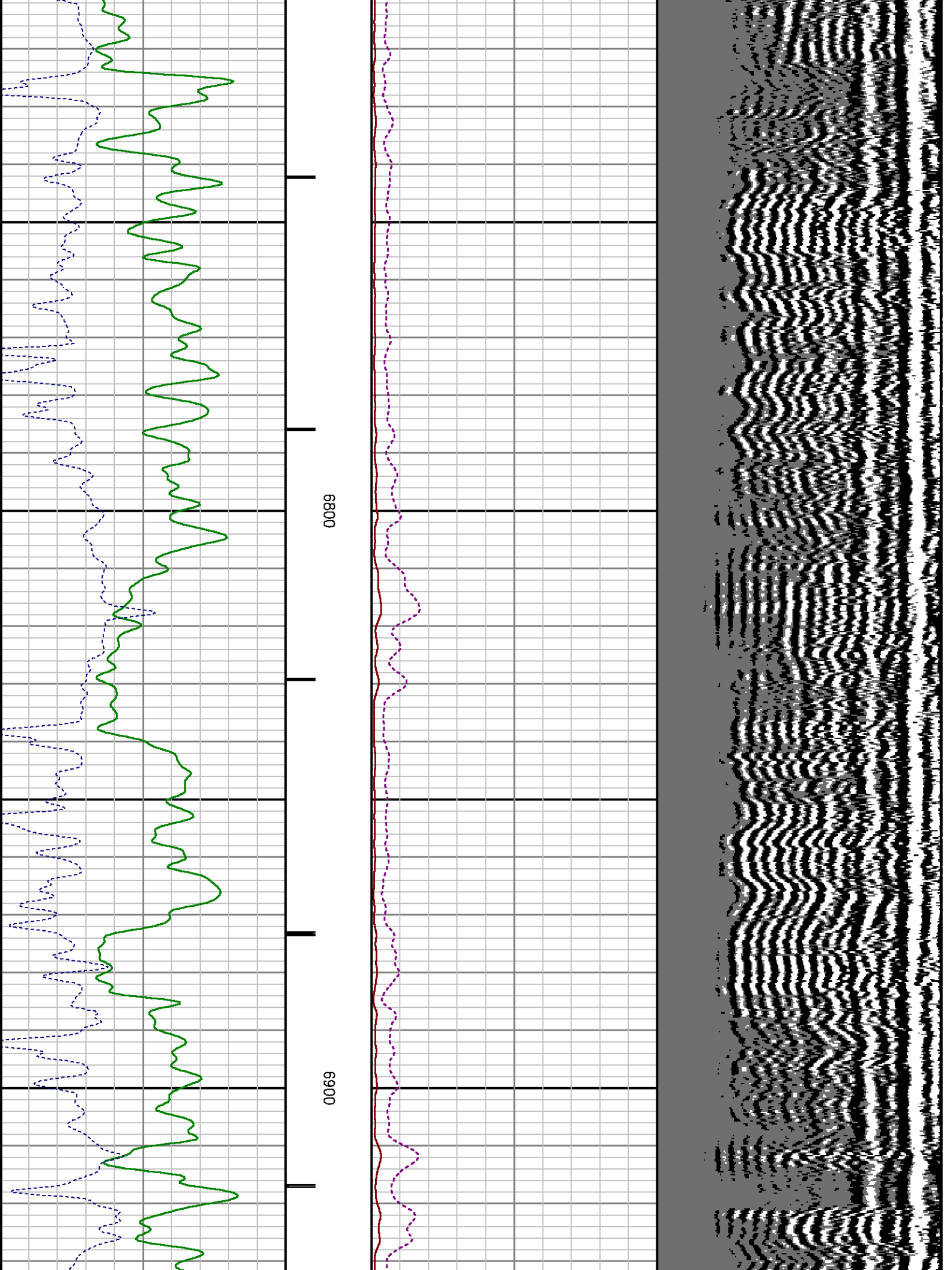


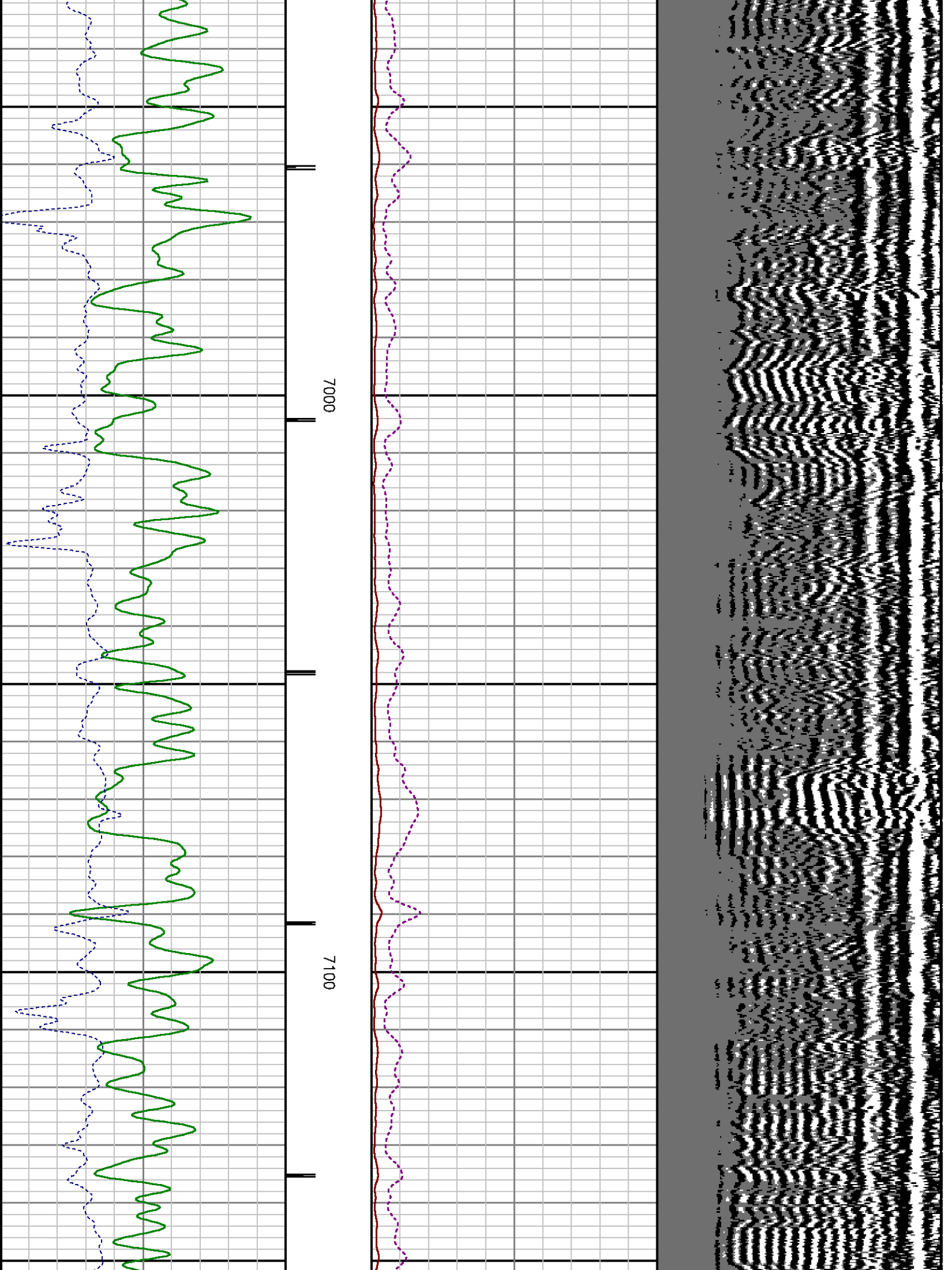


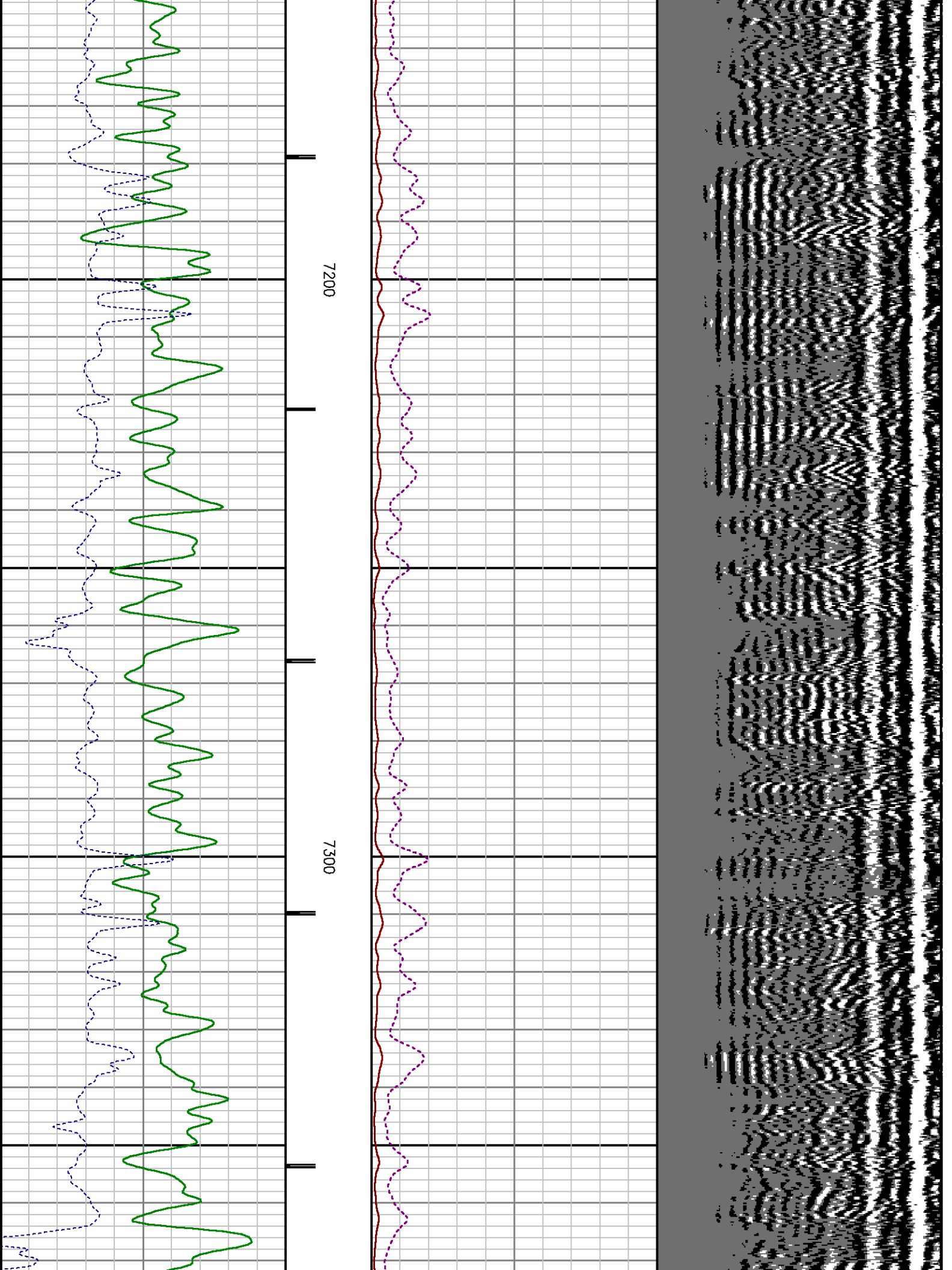


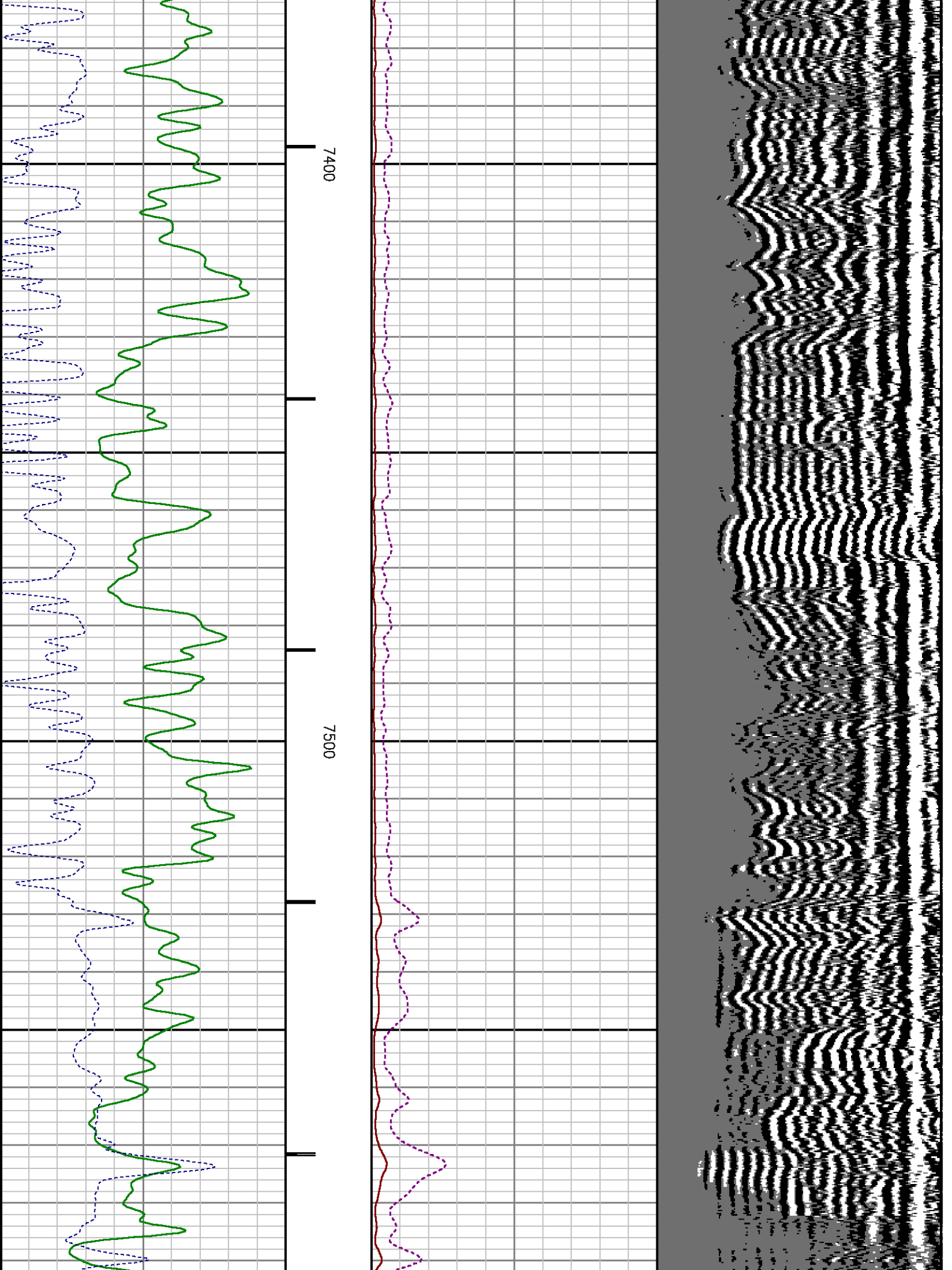


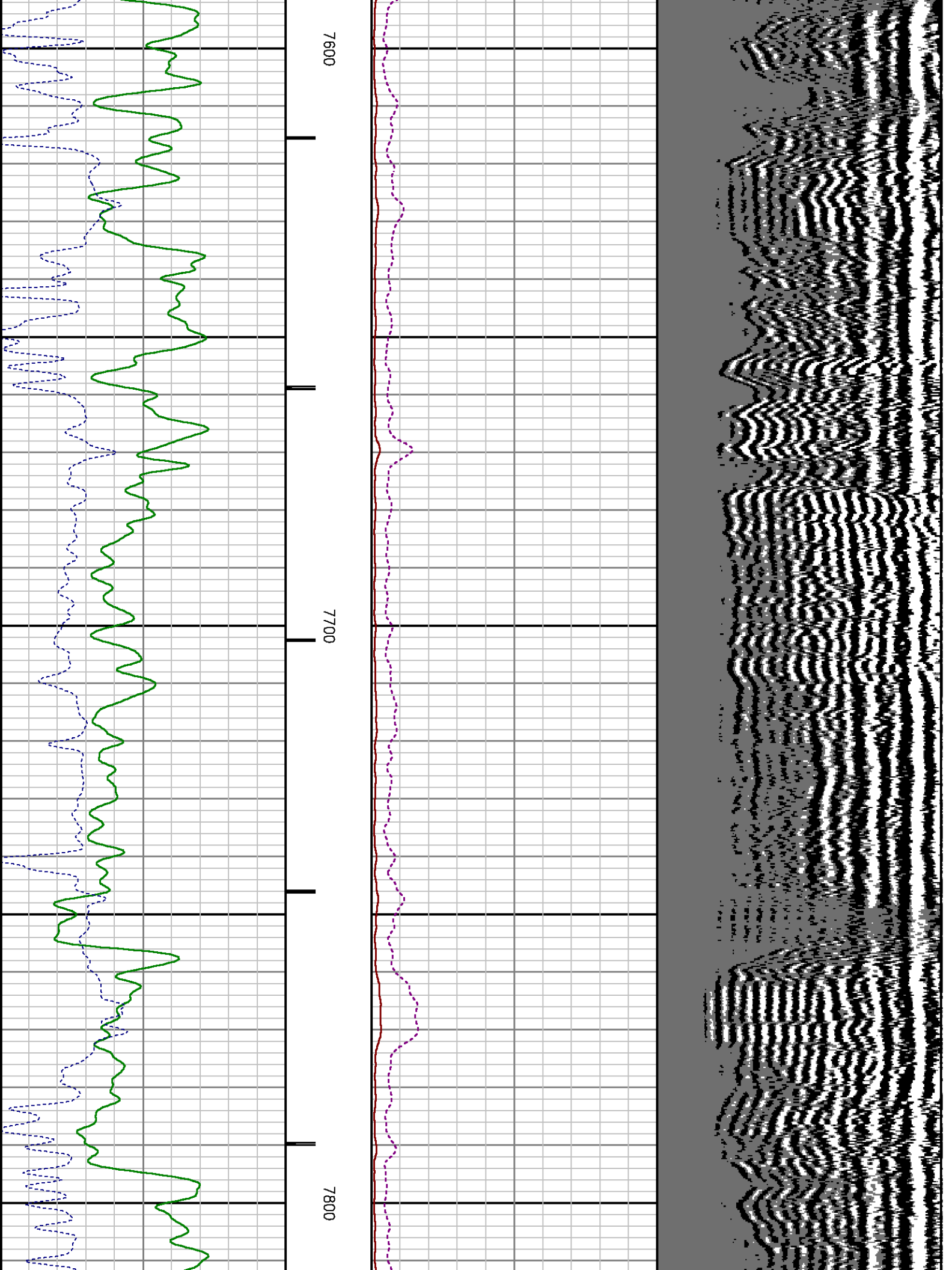


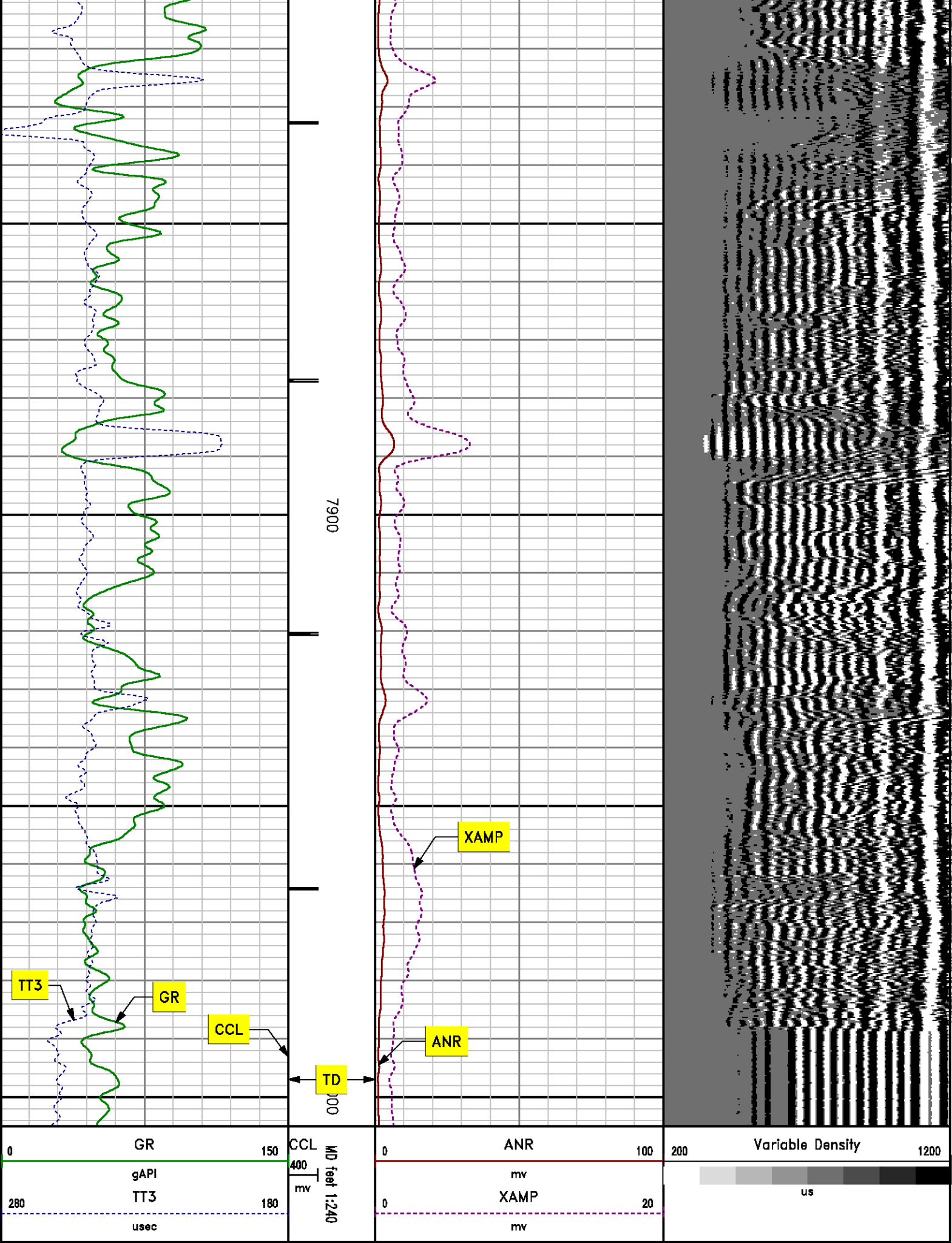












TT3

GR

CCL

TD

XAMP

ANR

0 GR 150
gAPI
TT3 180
u sec

CCL 150
MD feet 1:240
mv

0 ANR 100
mv
XAMP 20
mv

200 Variable Density 1200
us

MAIN LOG SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
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RAL	Fluid Travel Time	200.000	usec/ft	33.062	8018.750

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
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		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Company : WPX ENERGY

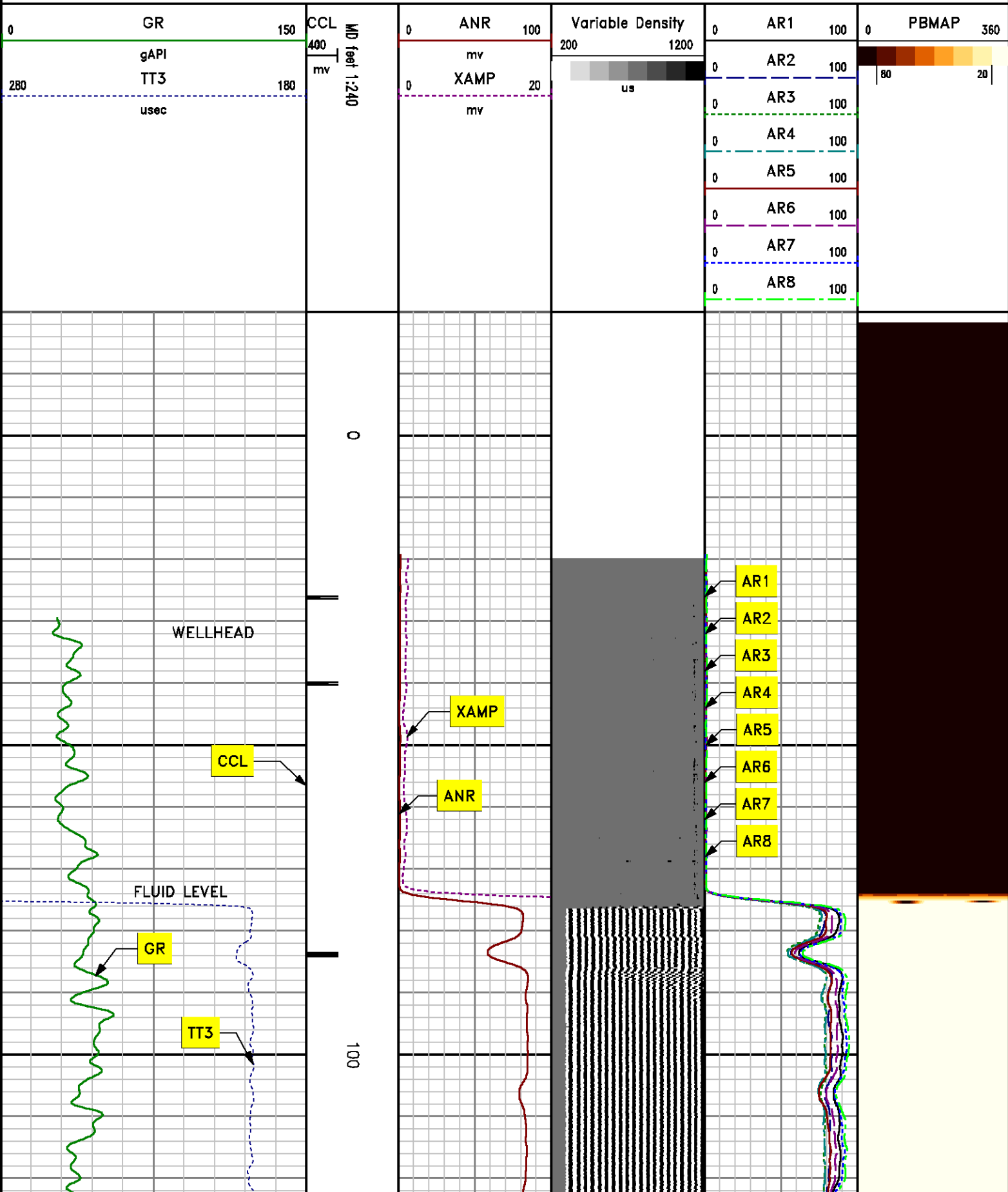
Well : DIAMOND ELK PA 343-2

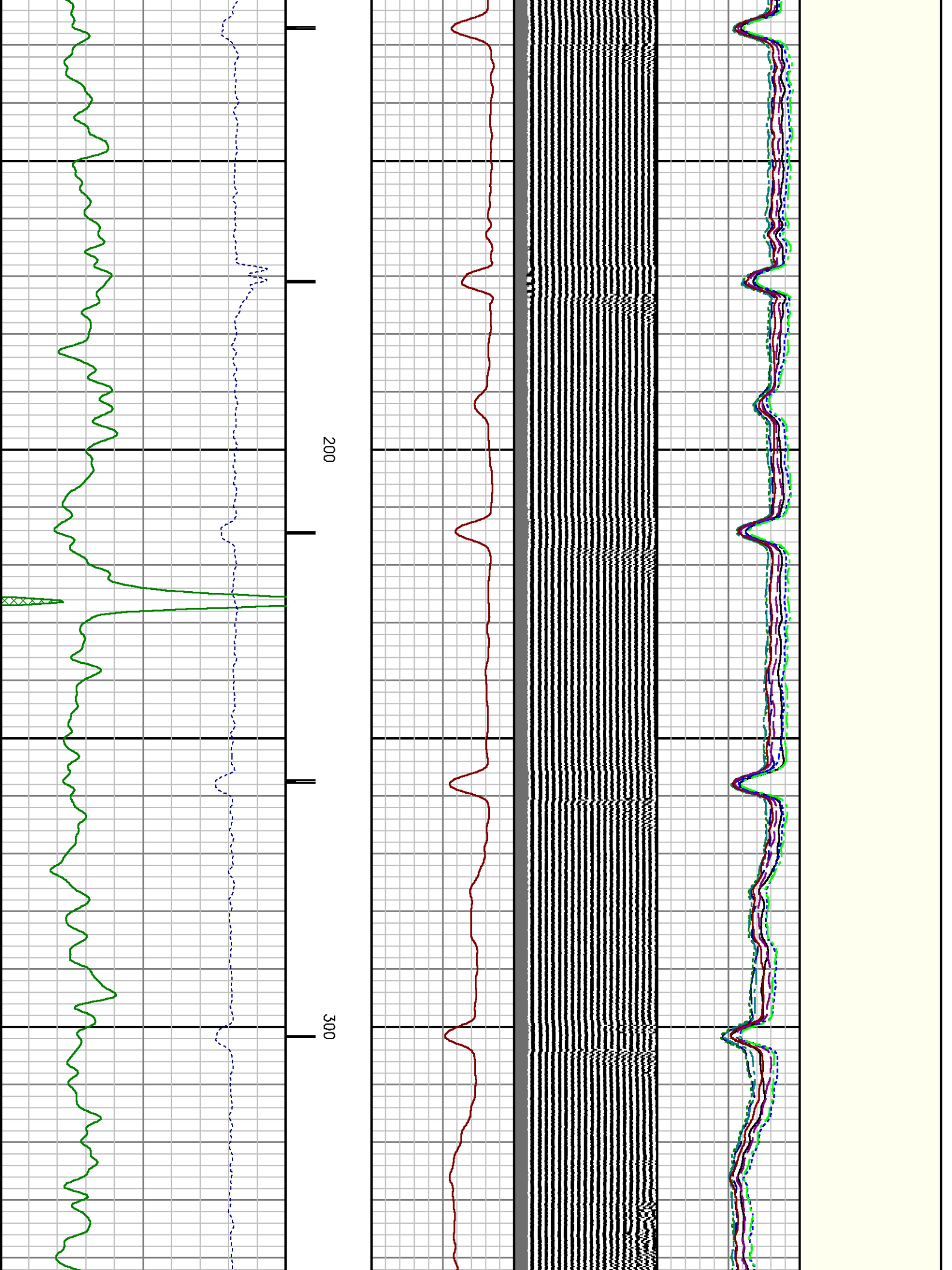
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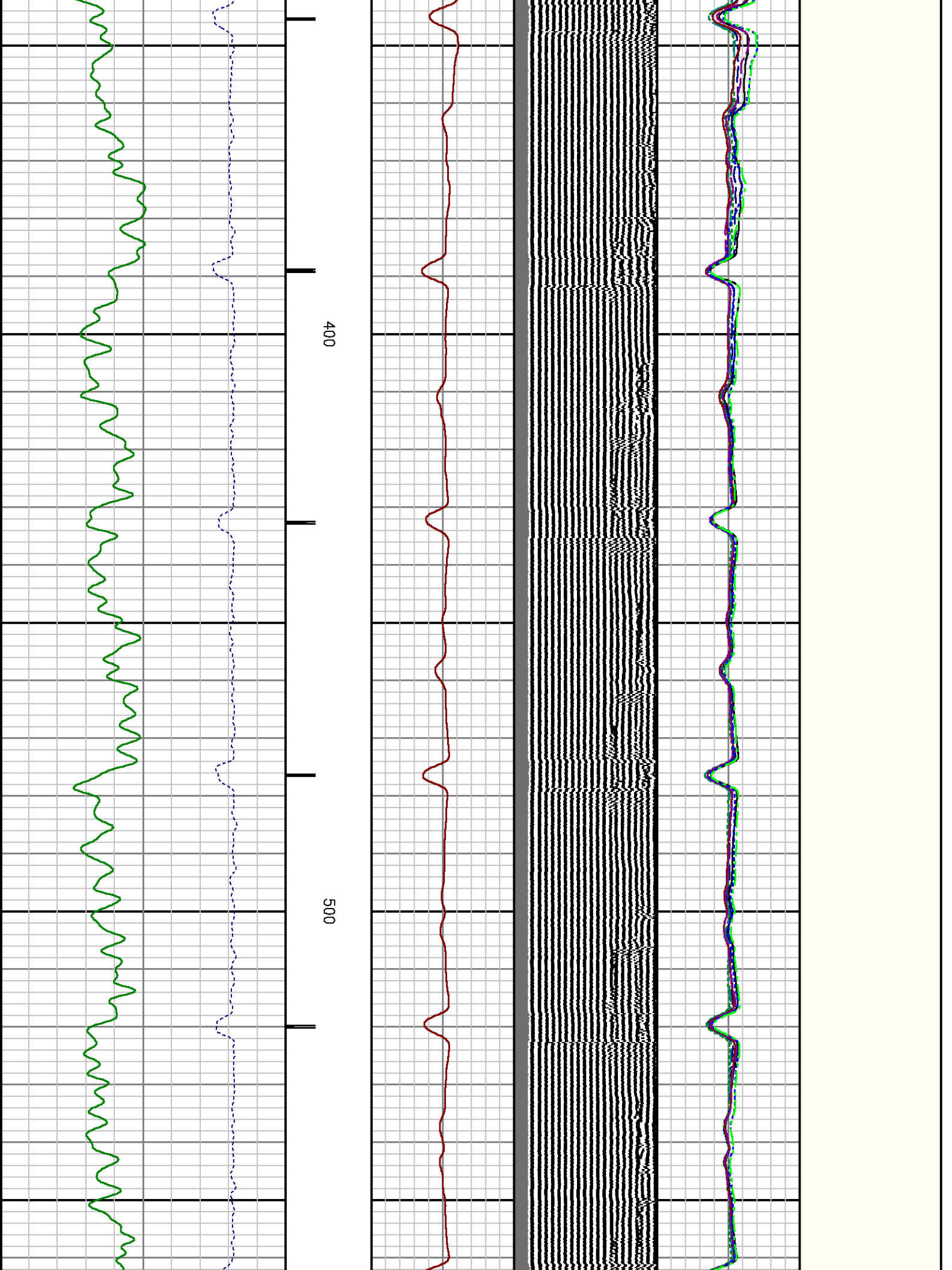
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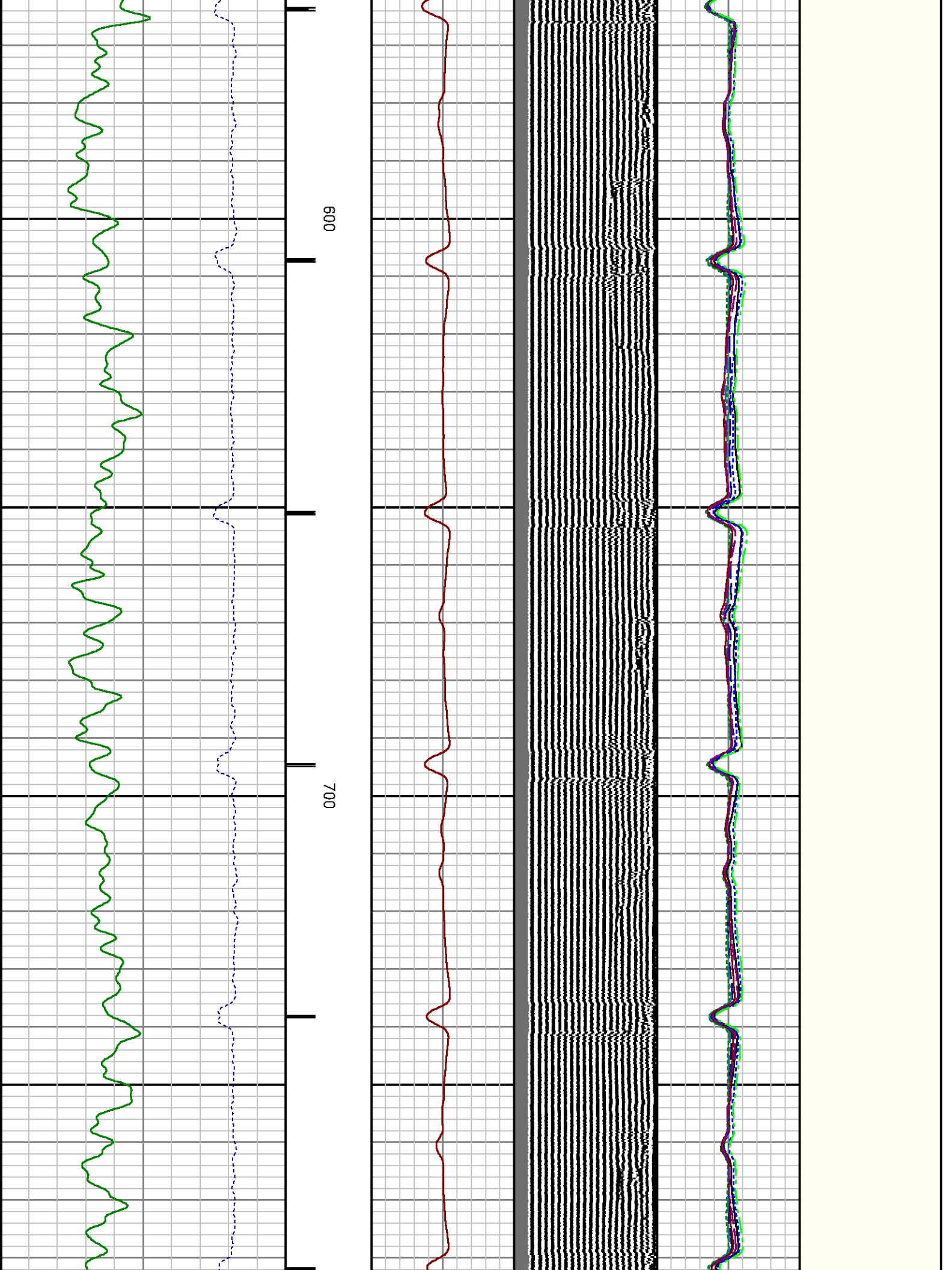
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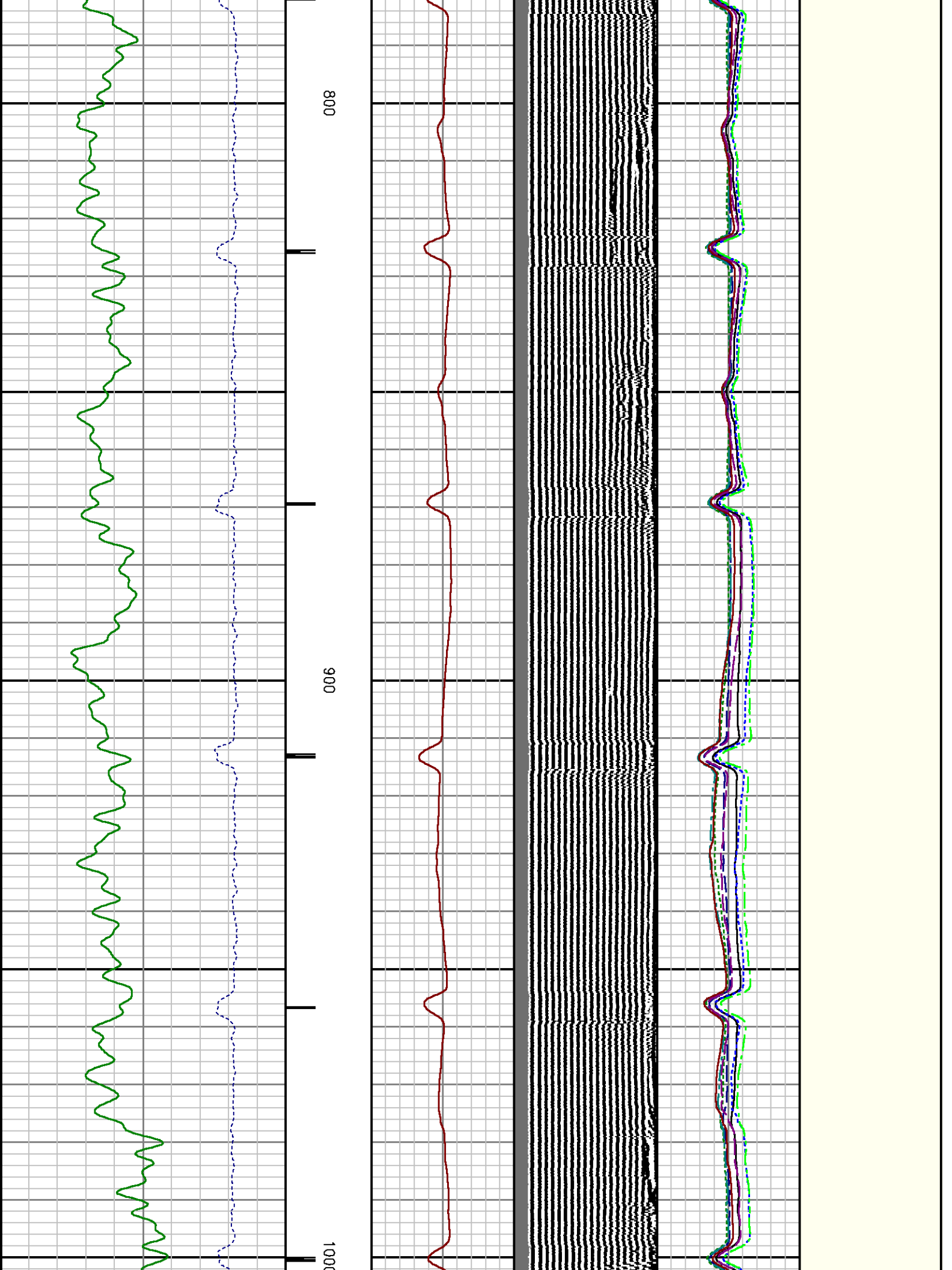
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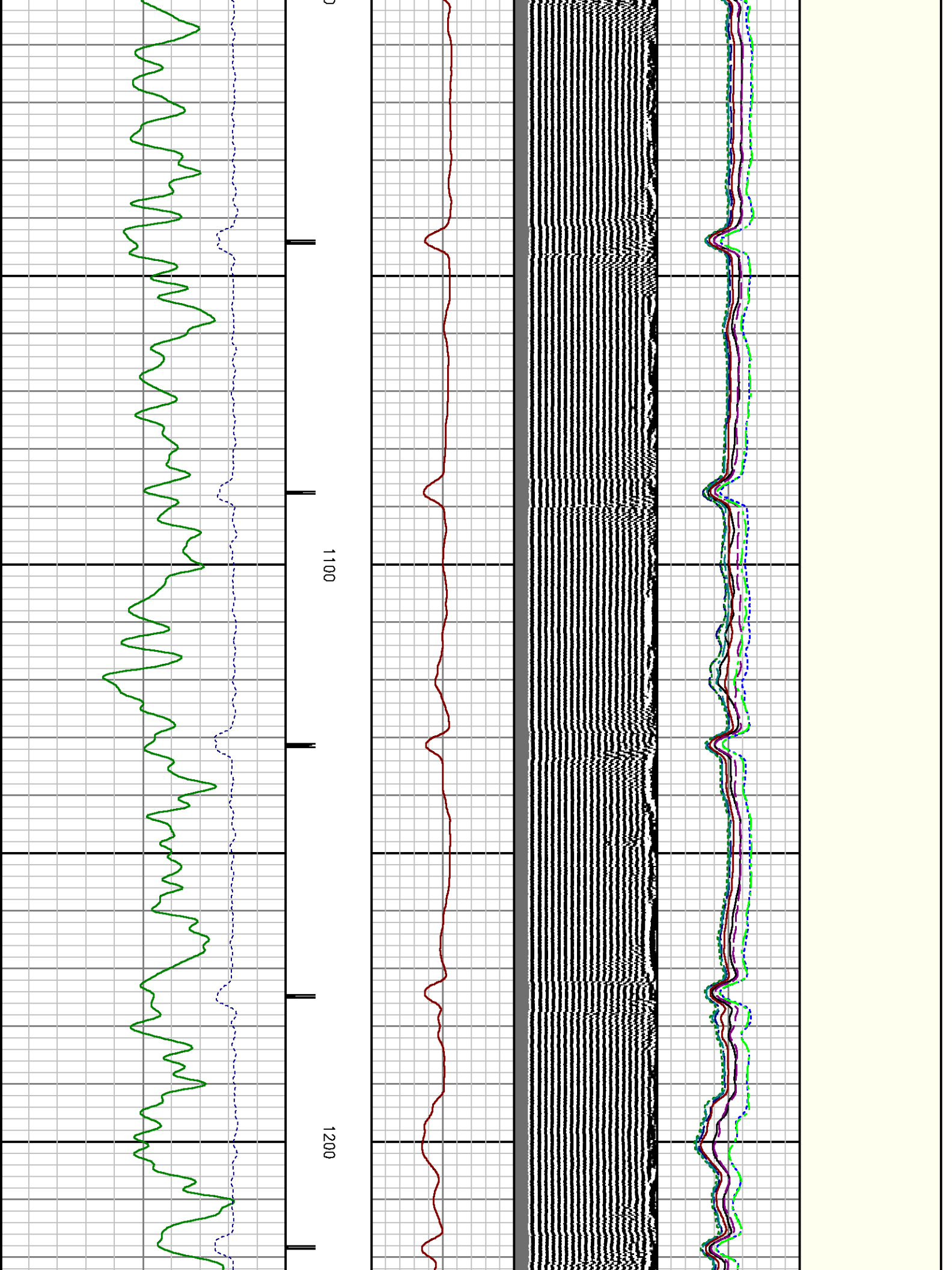


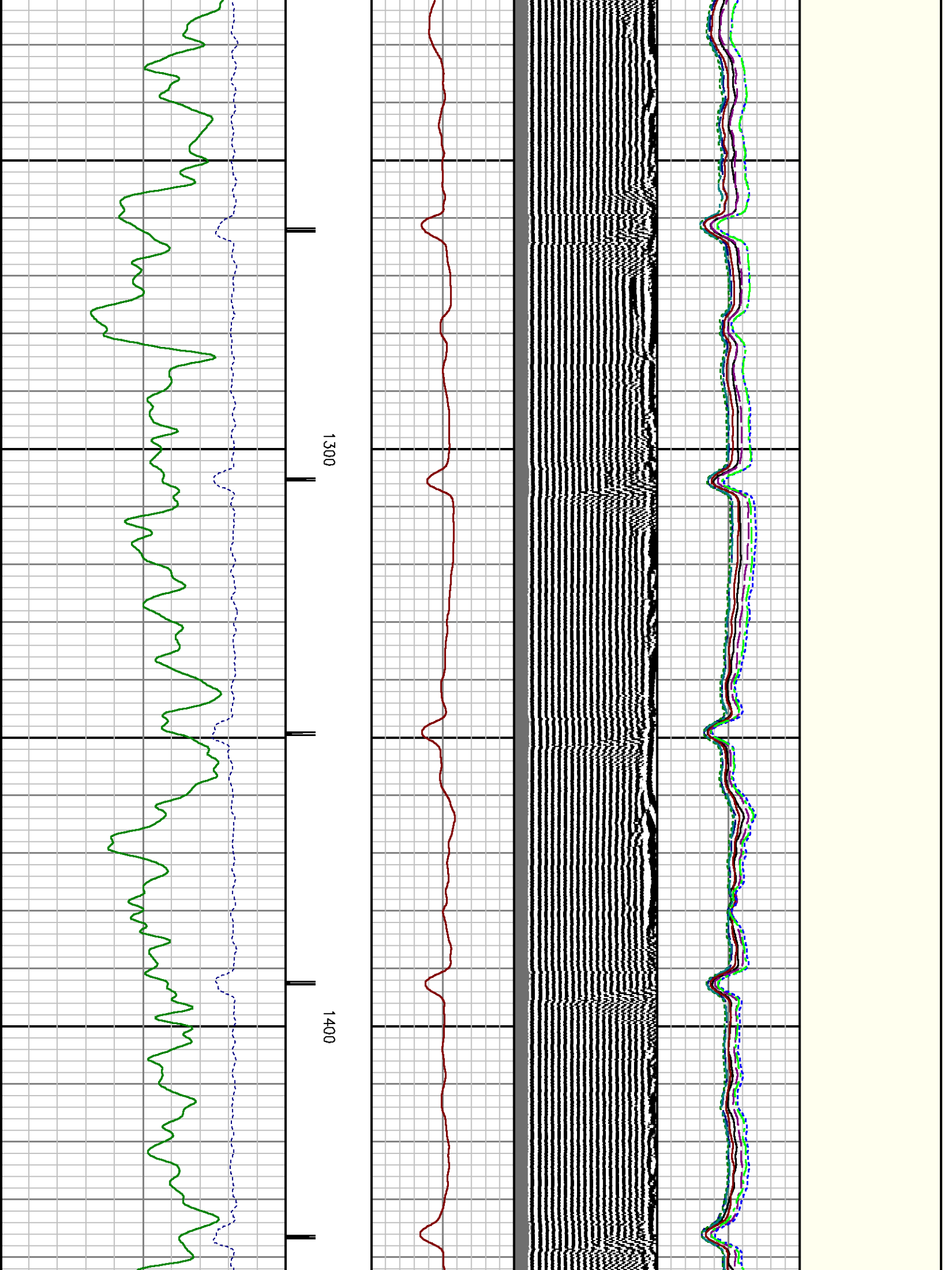


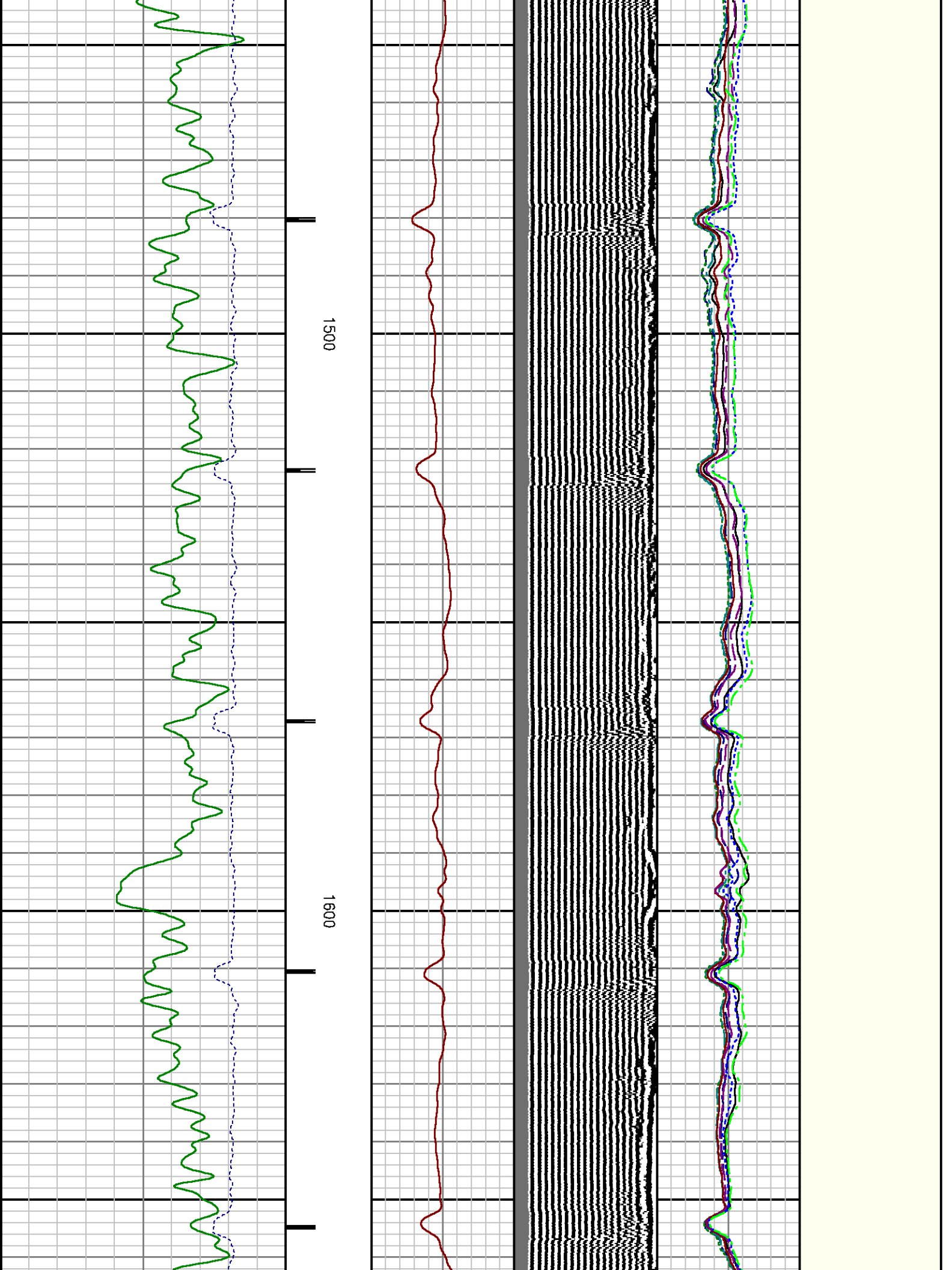


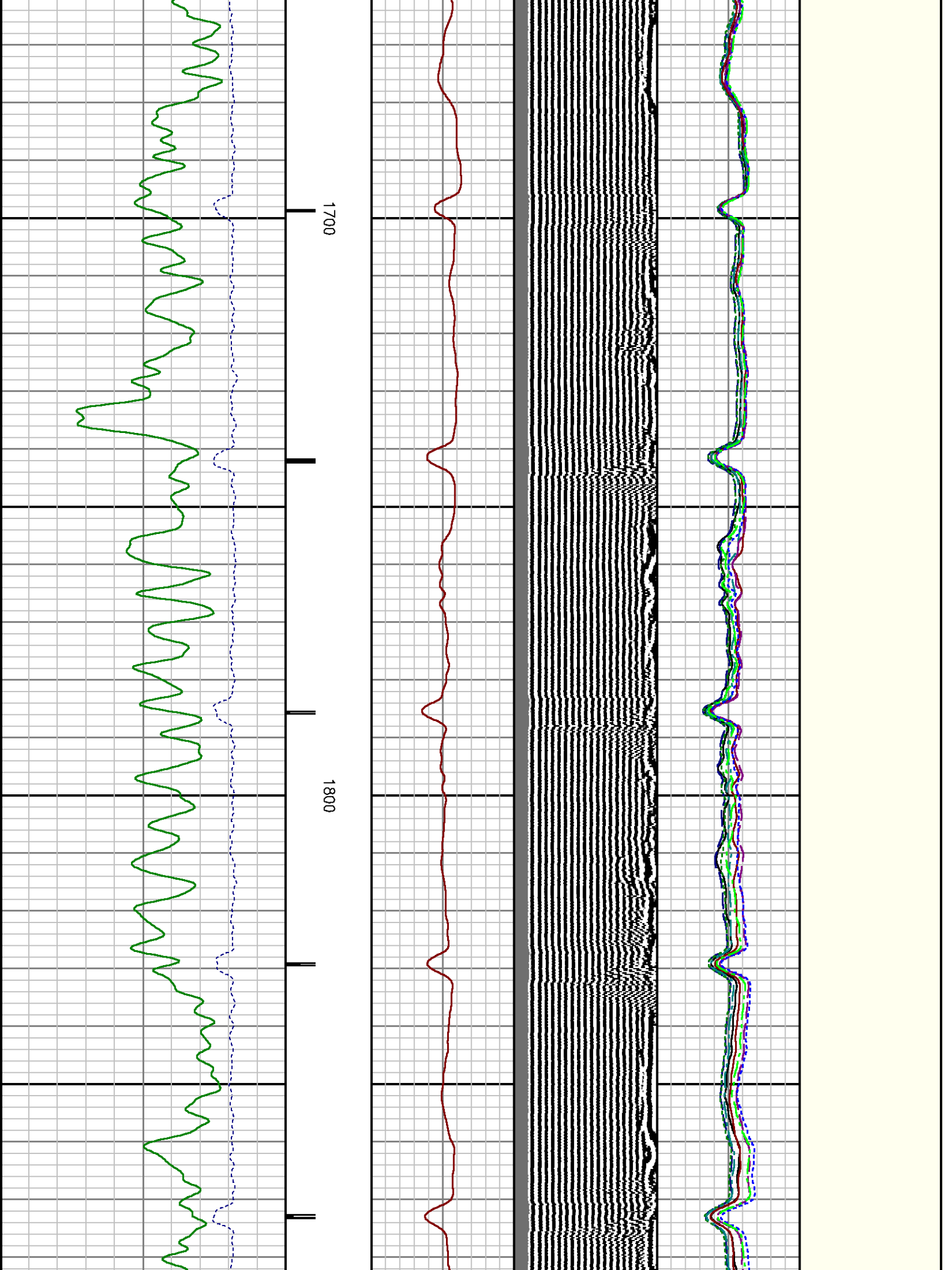


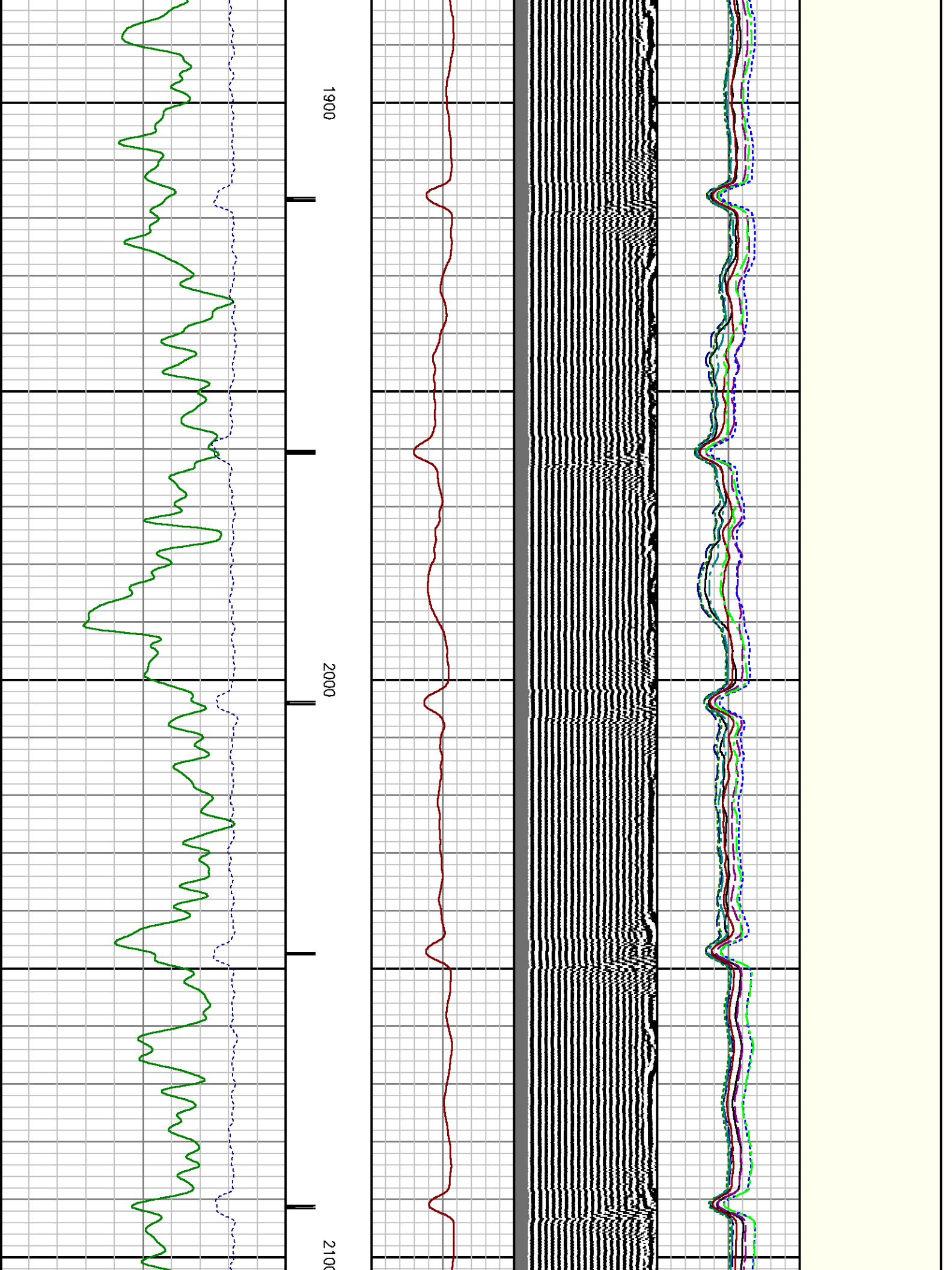


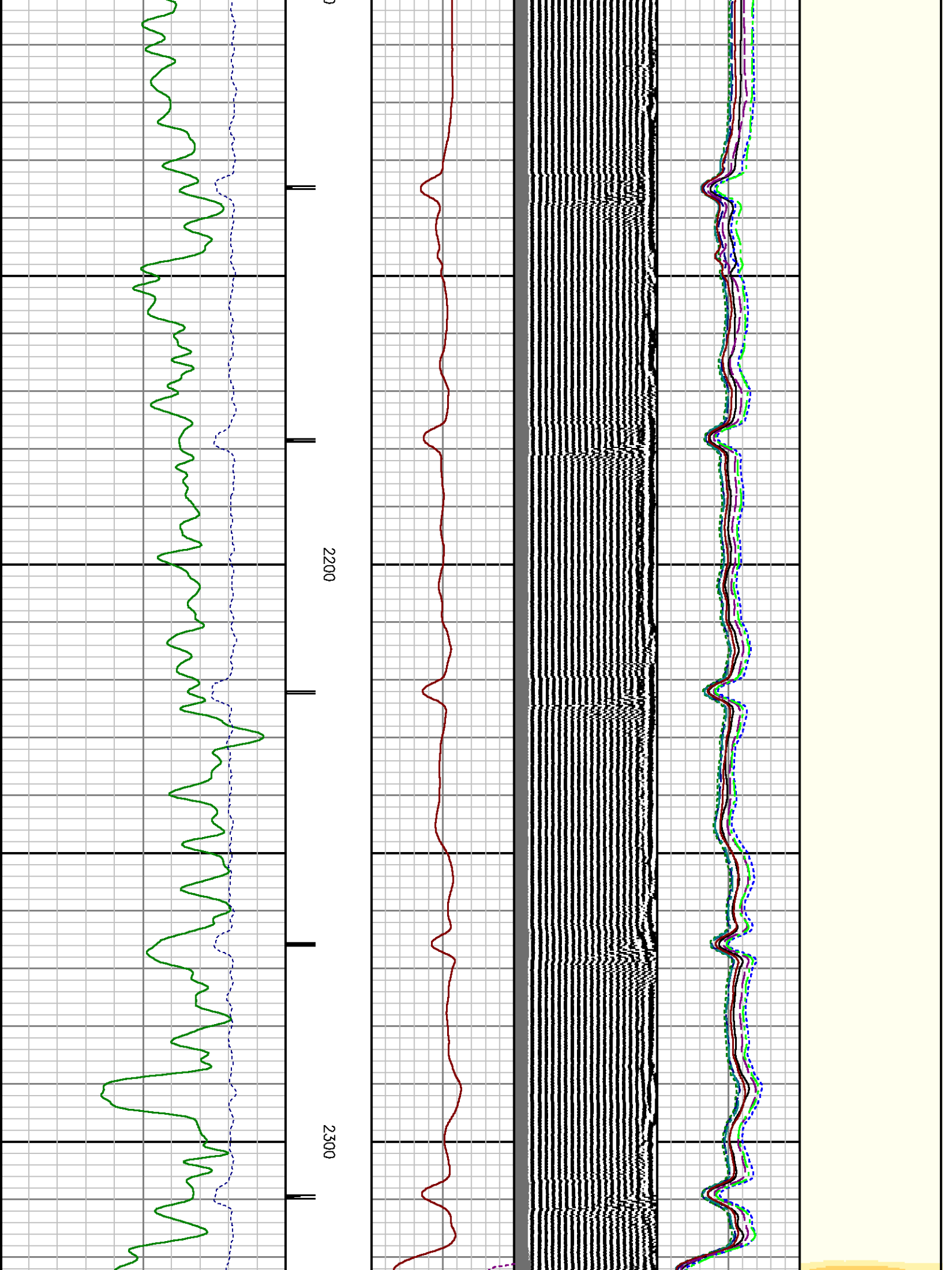


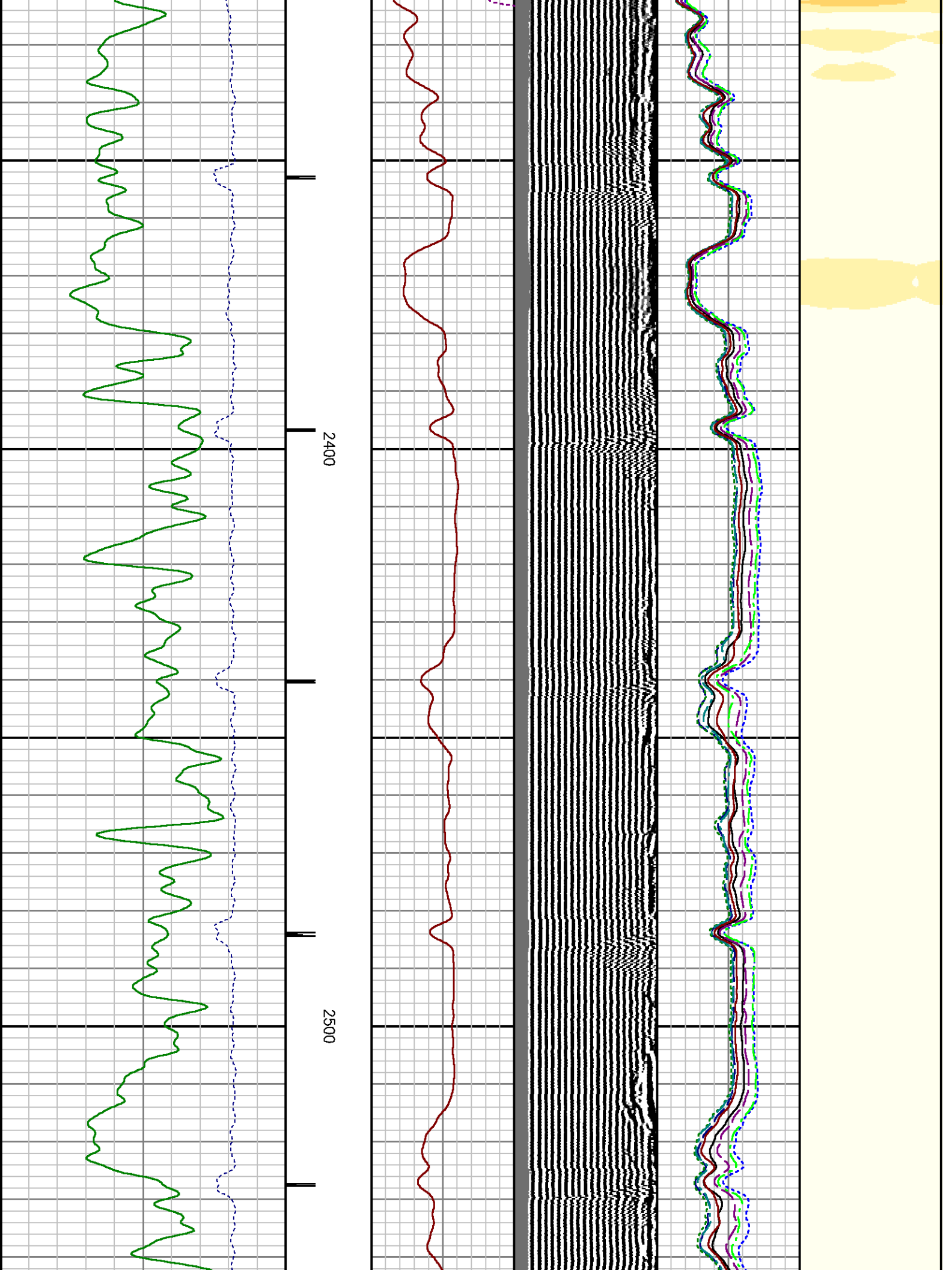


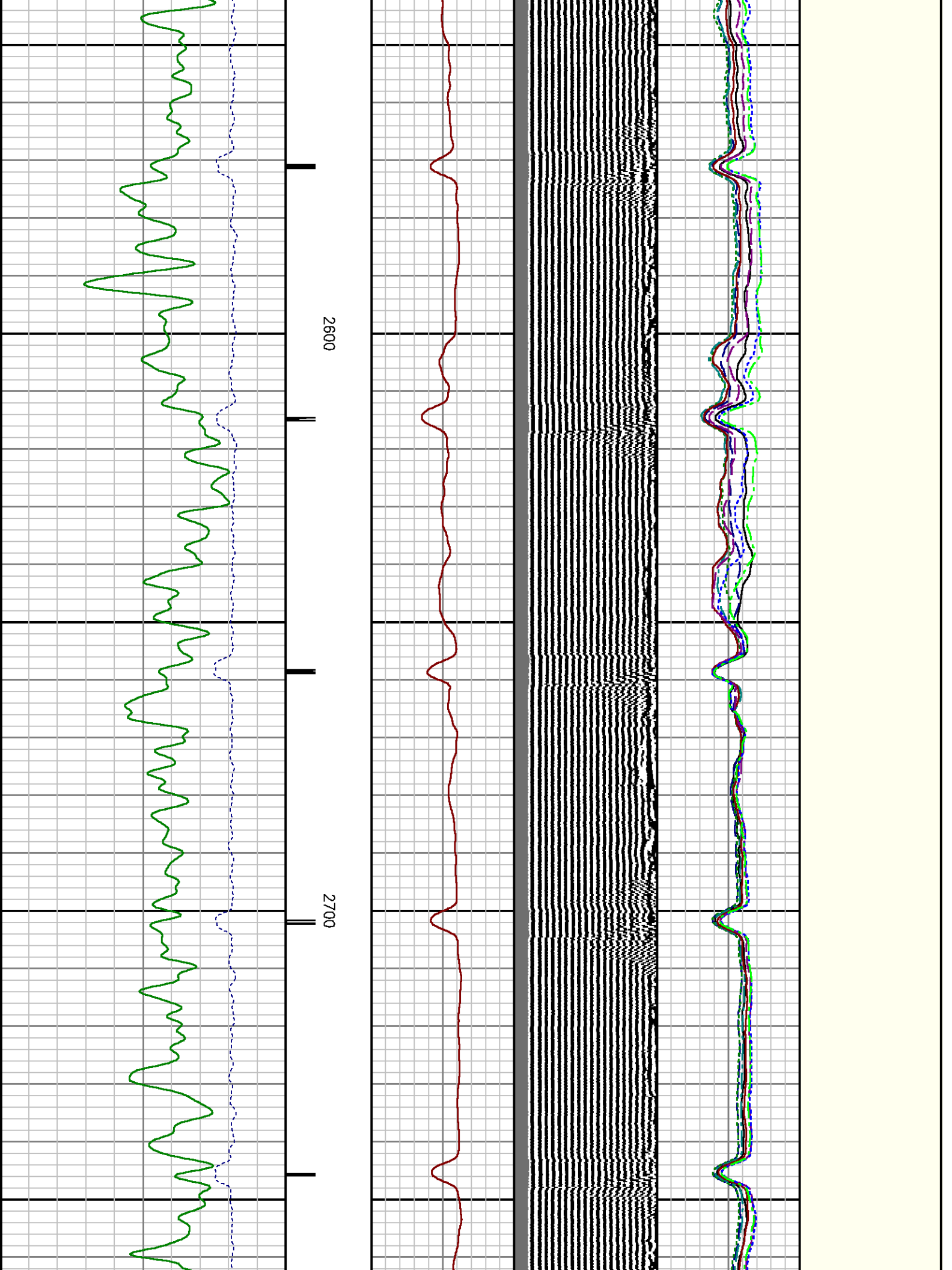


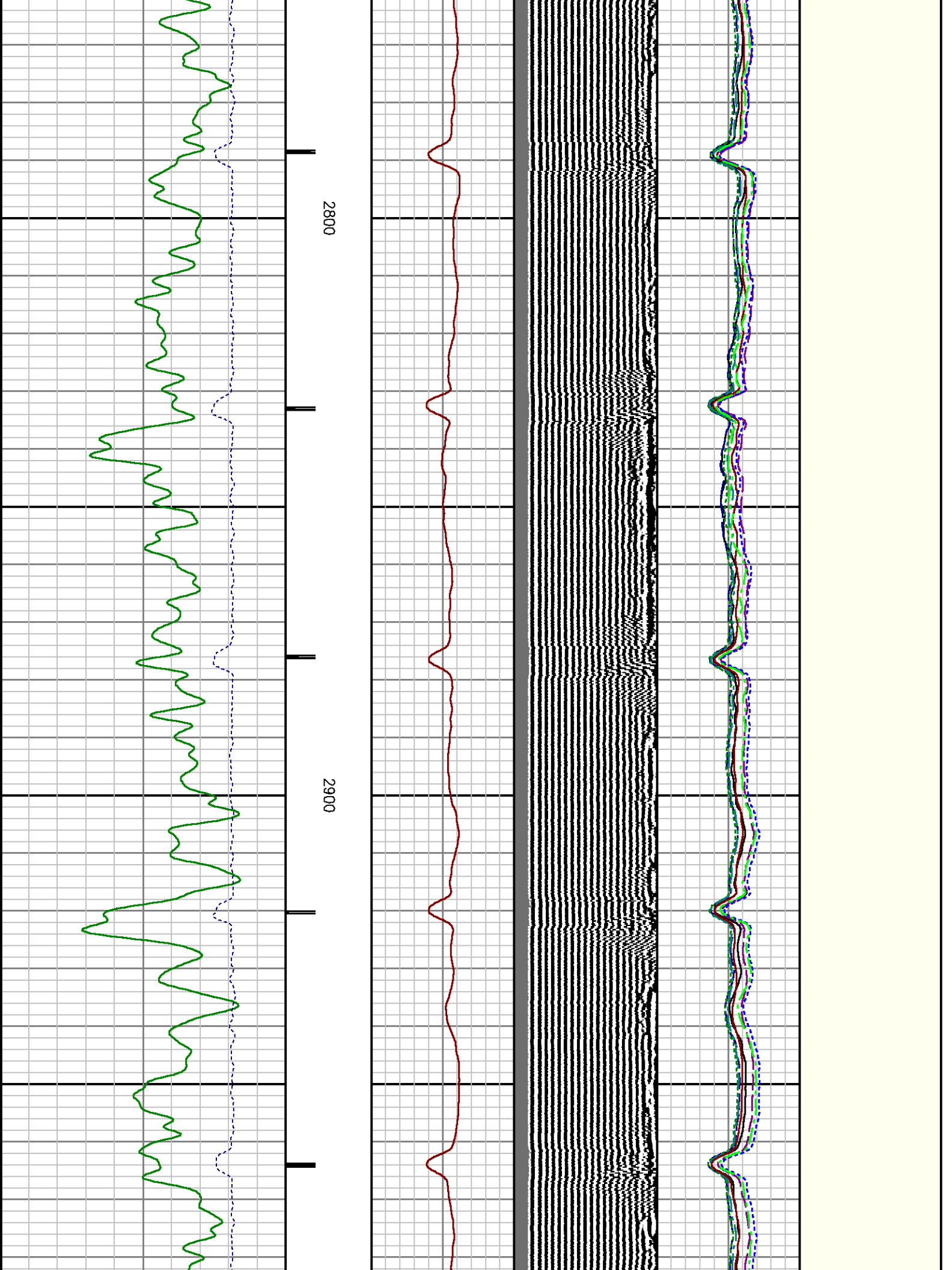


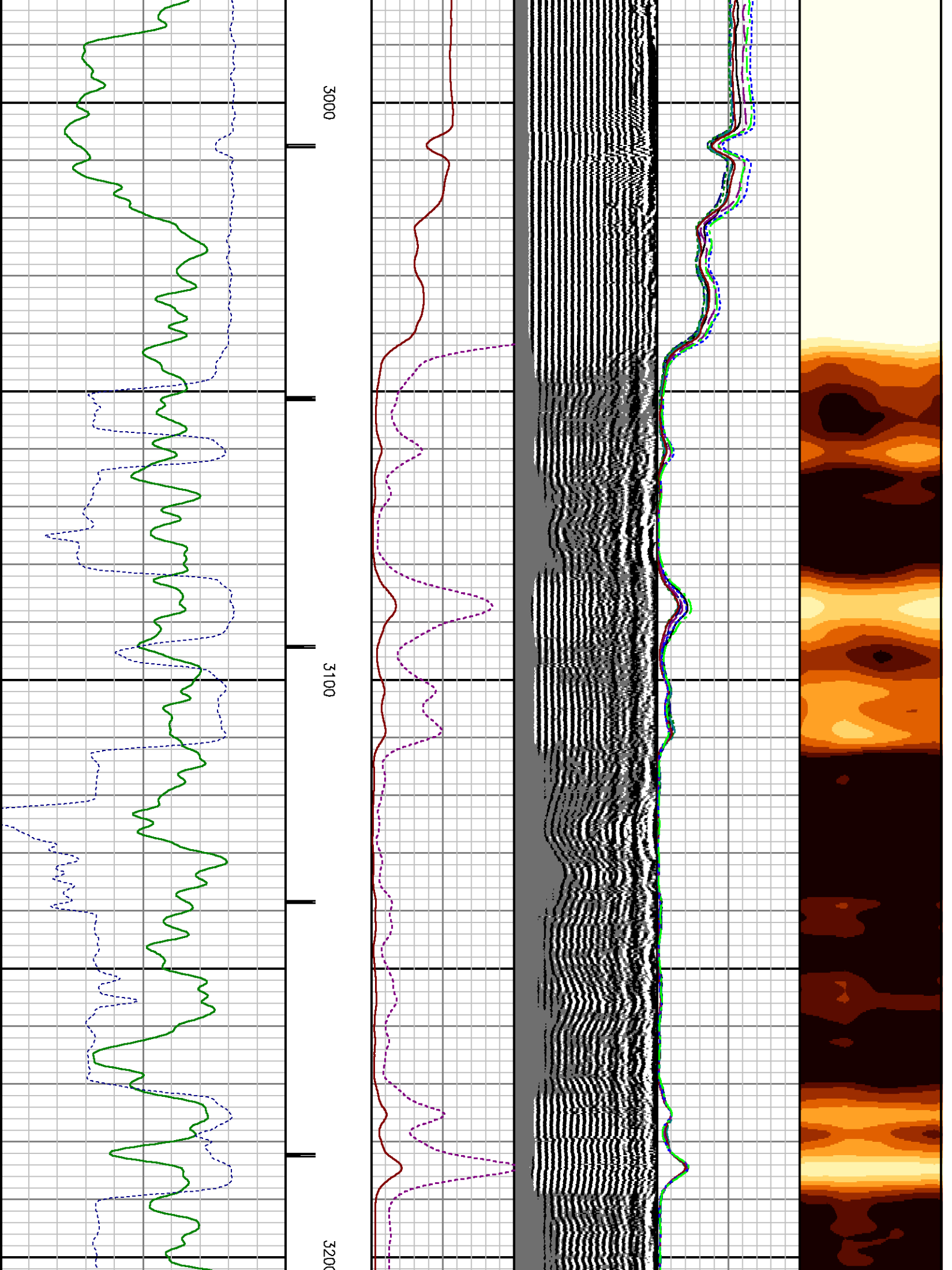


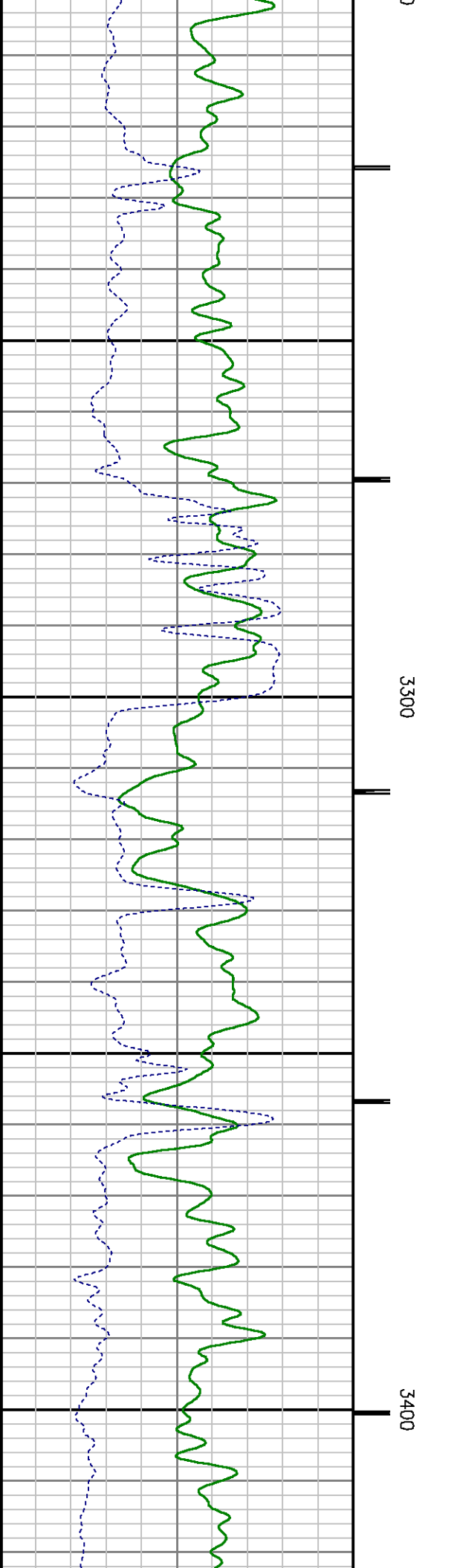
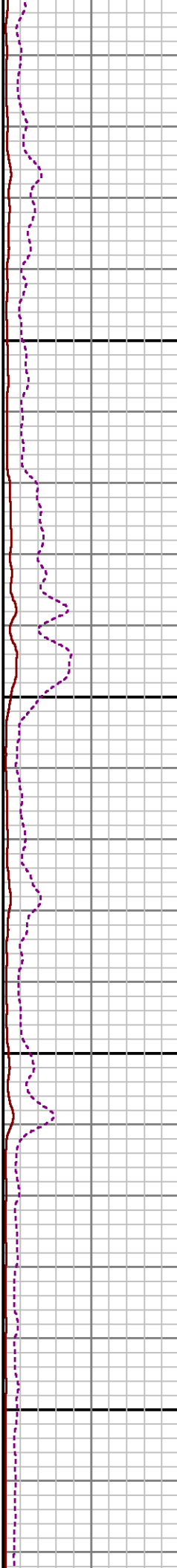
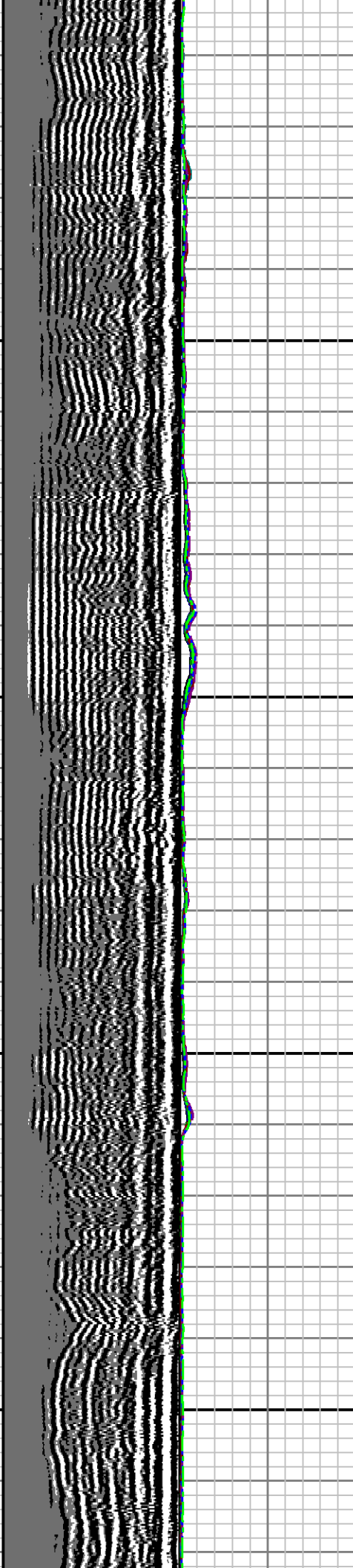
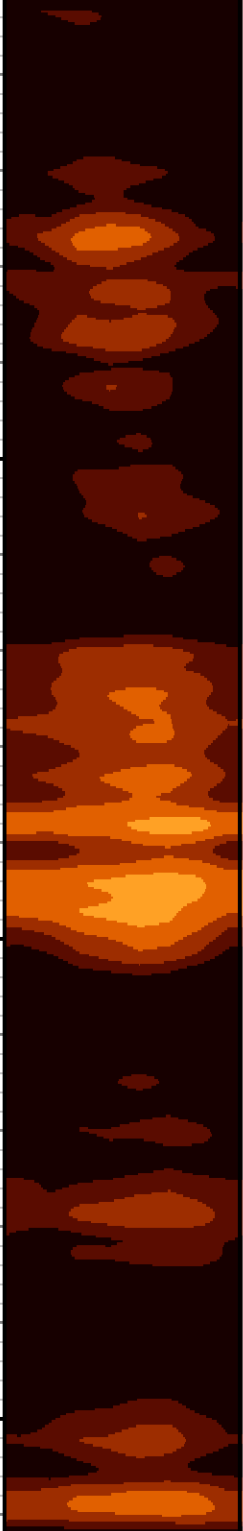


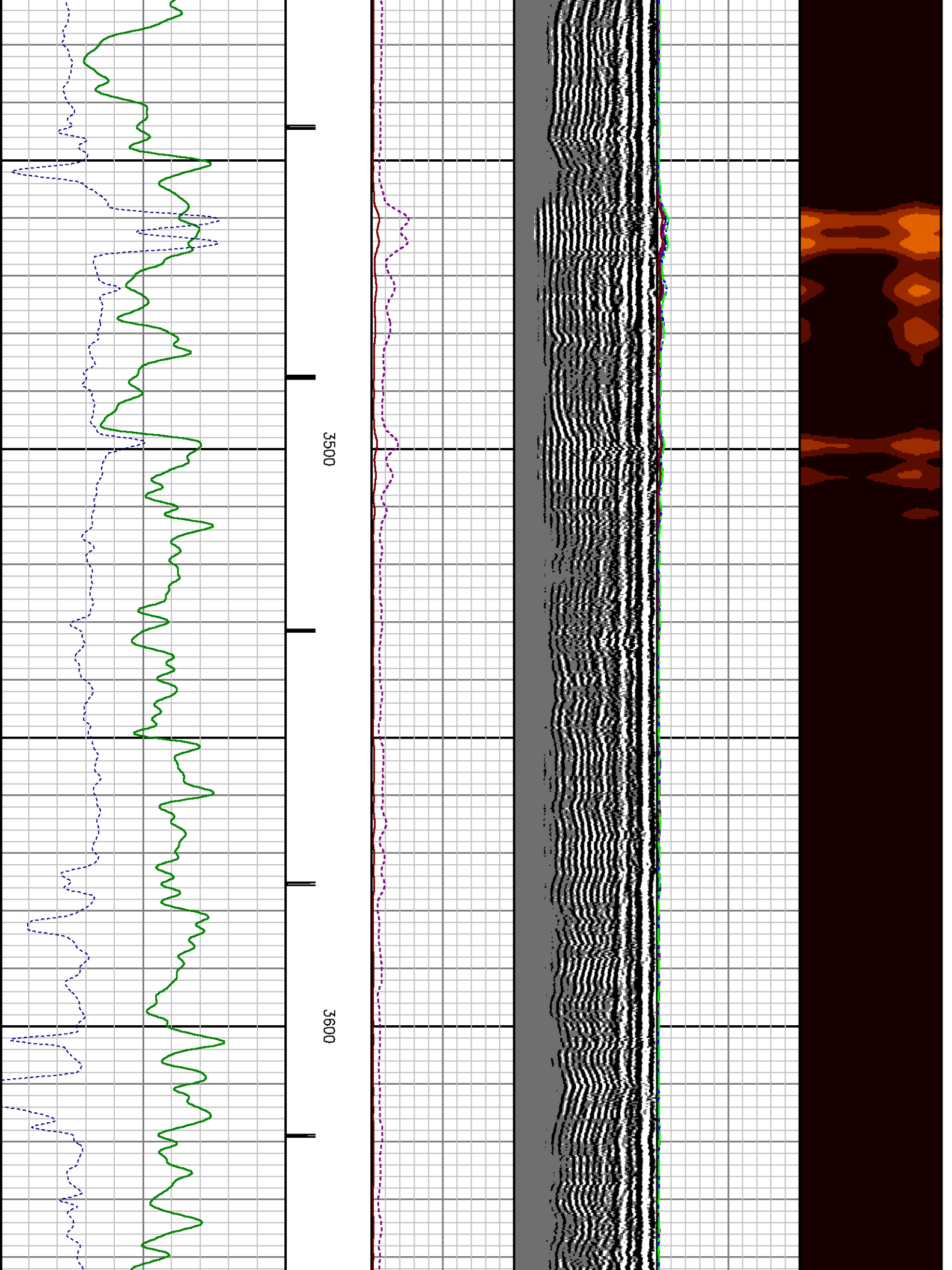


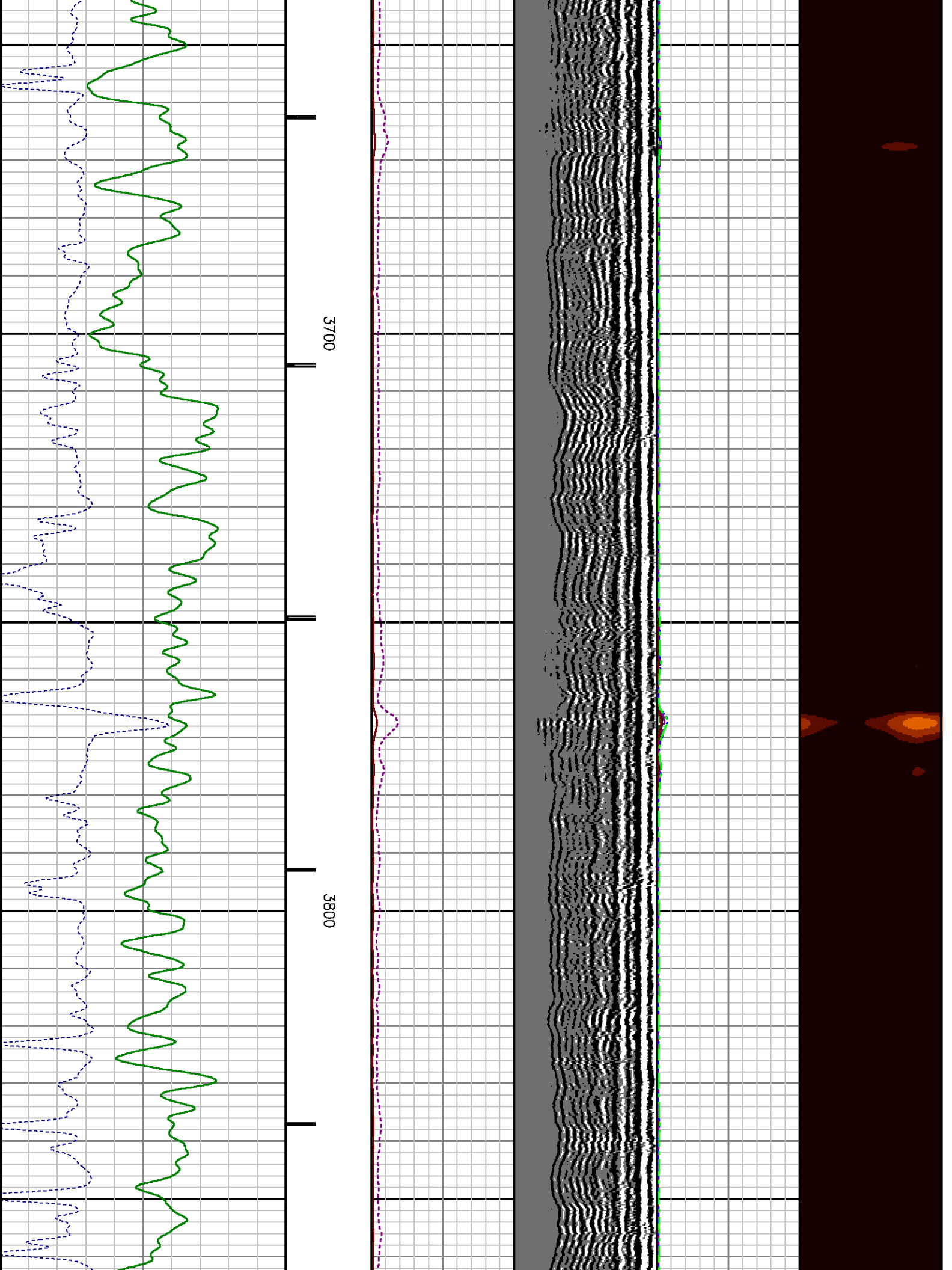


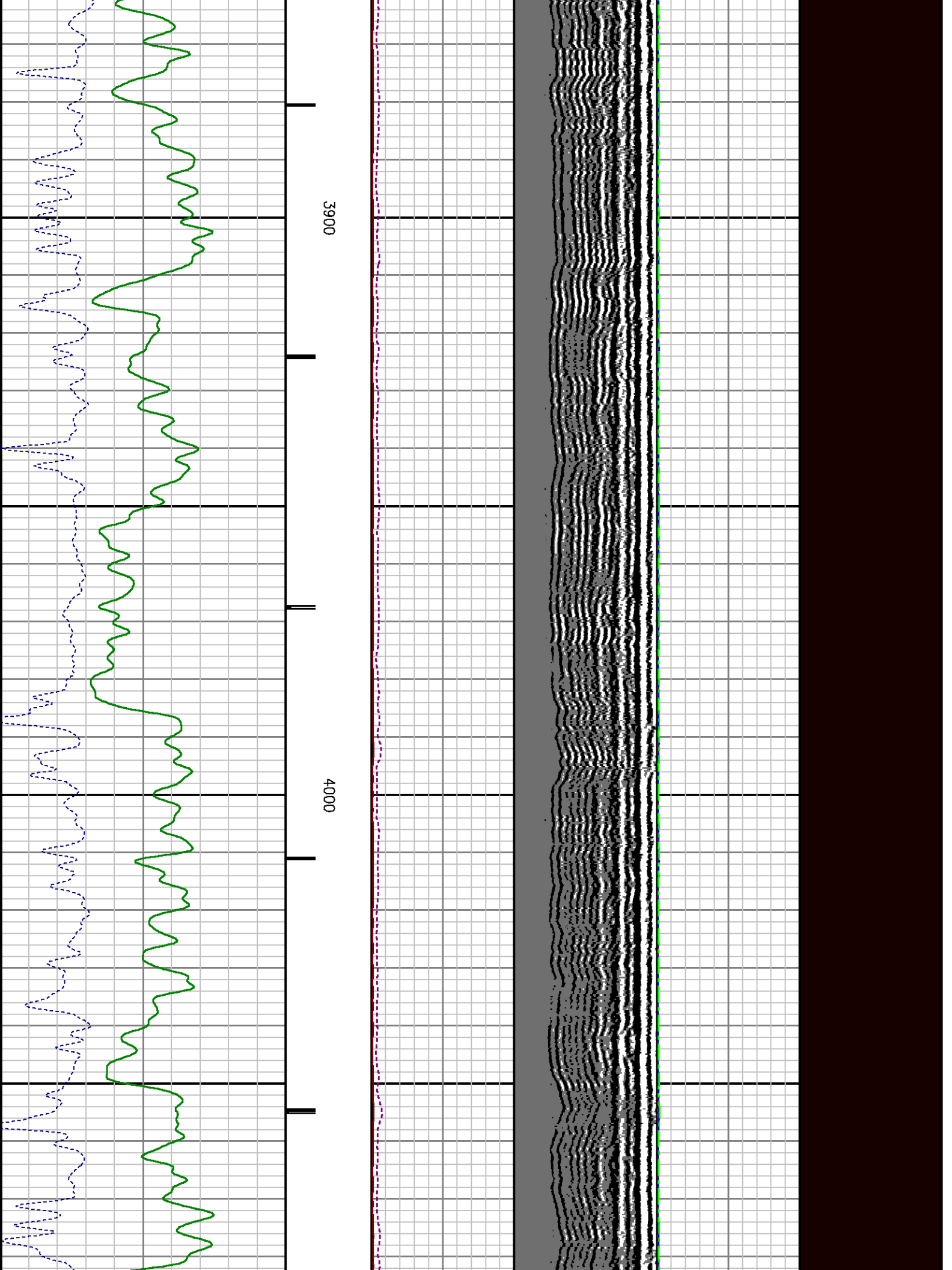


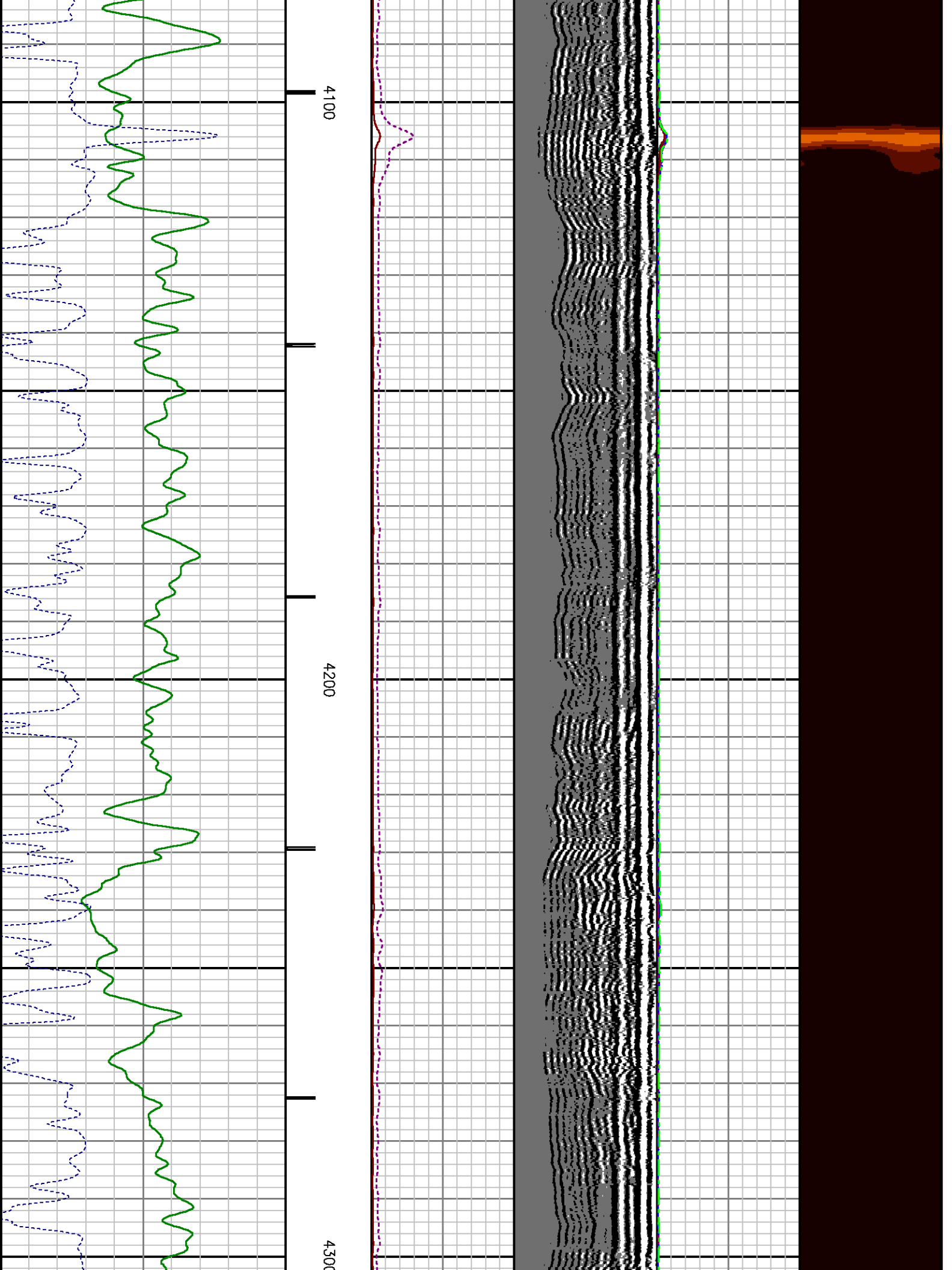


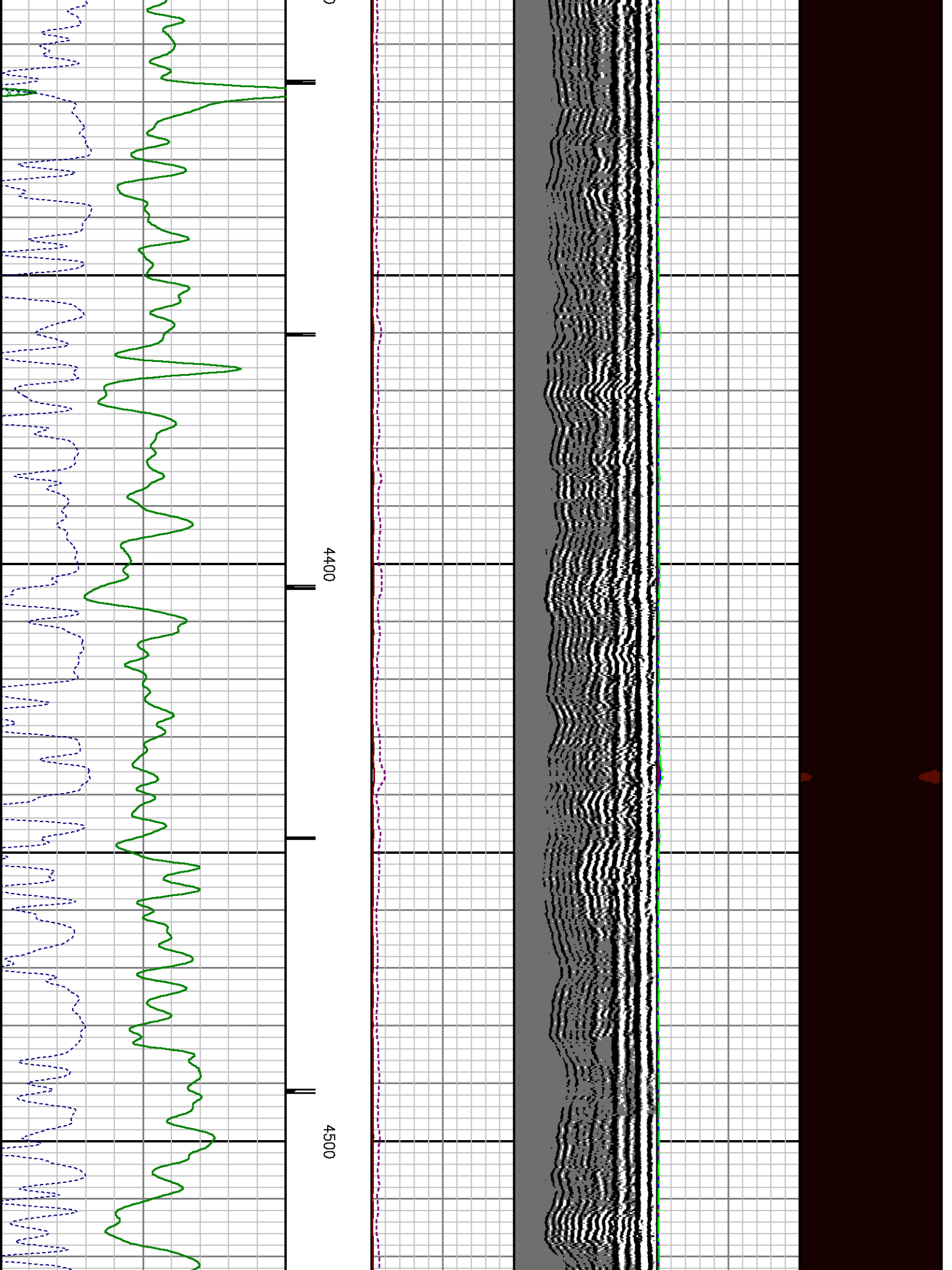


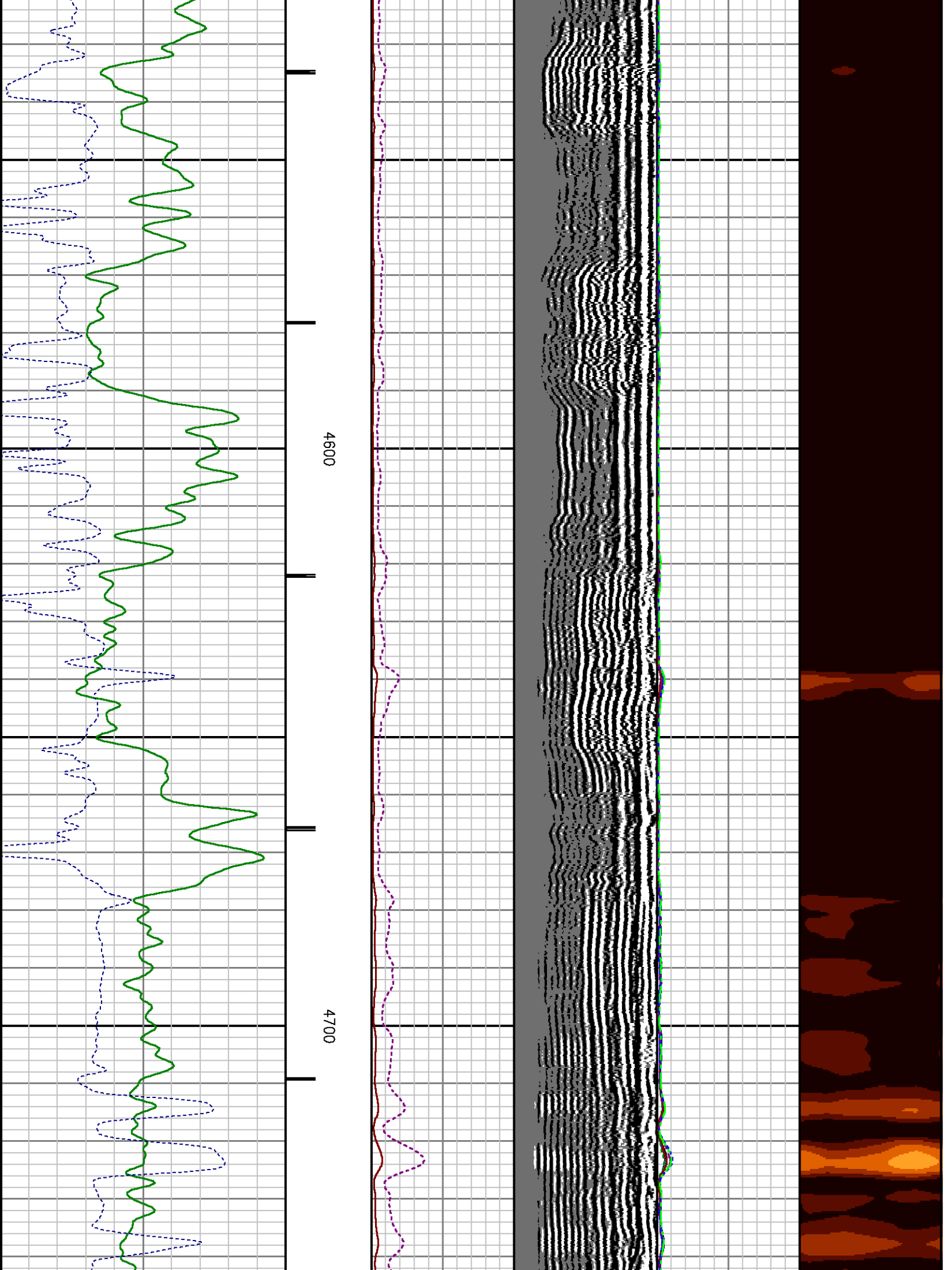


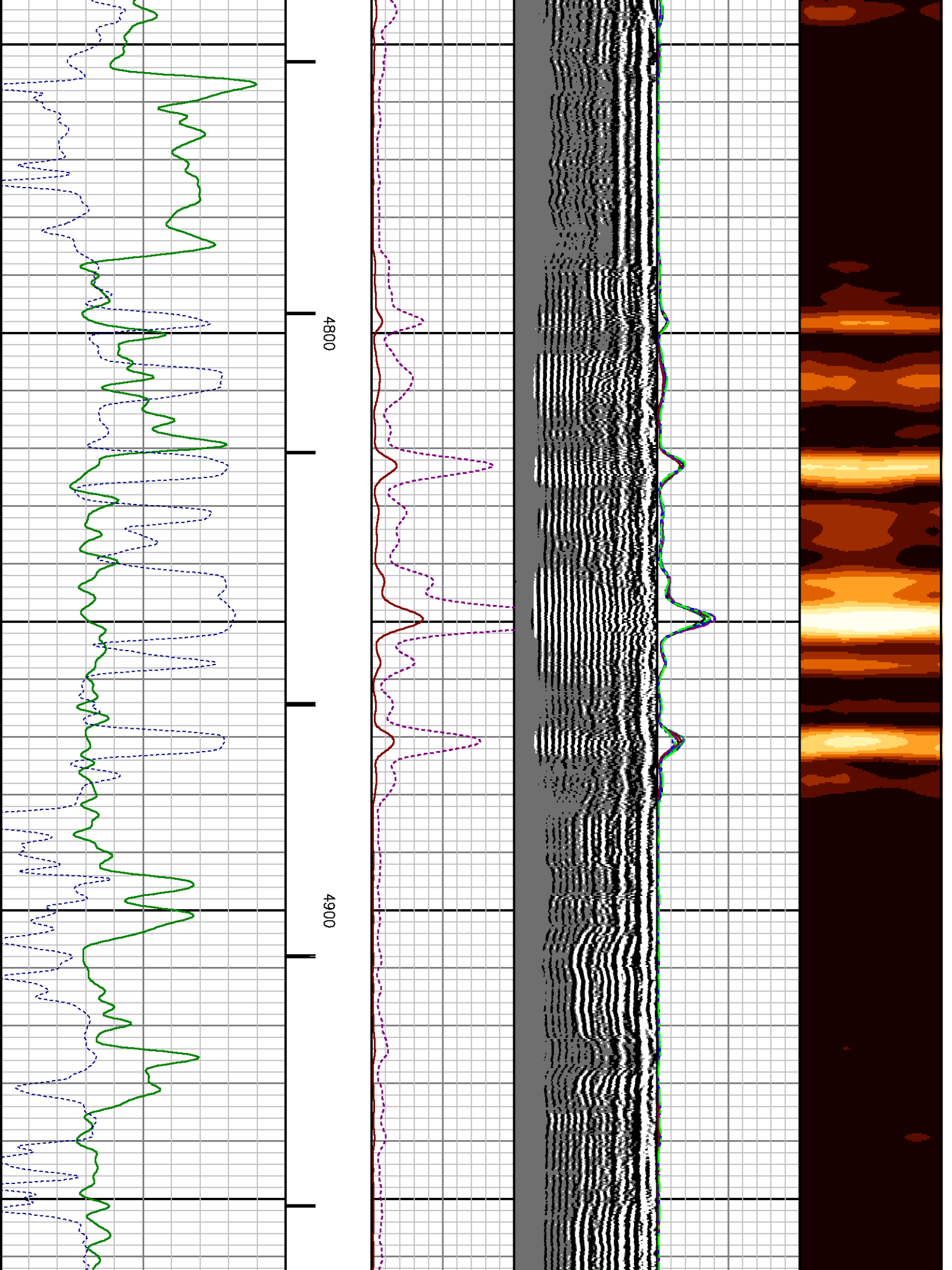


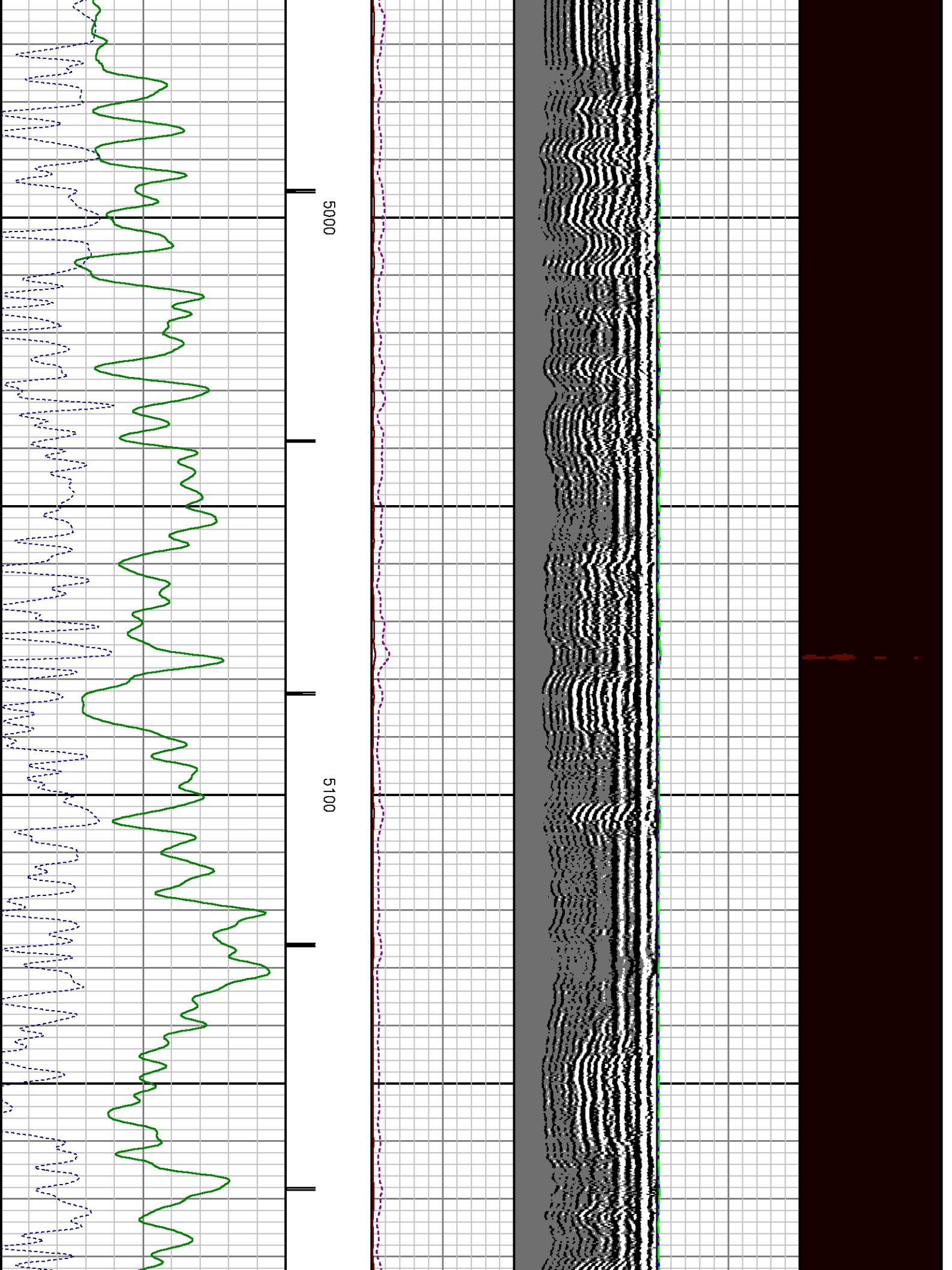


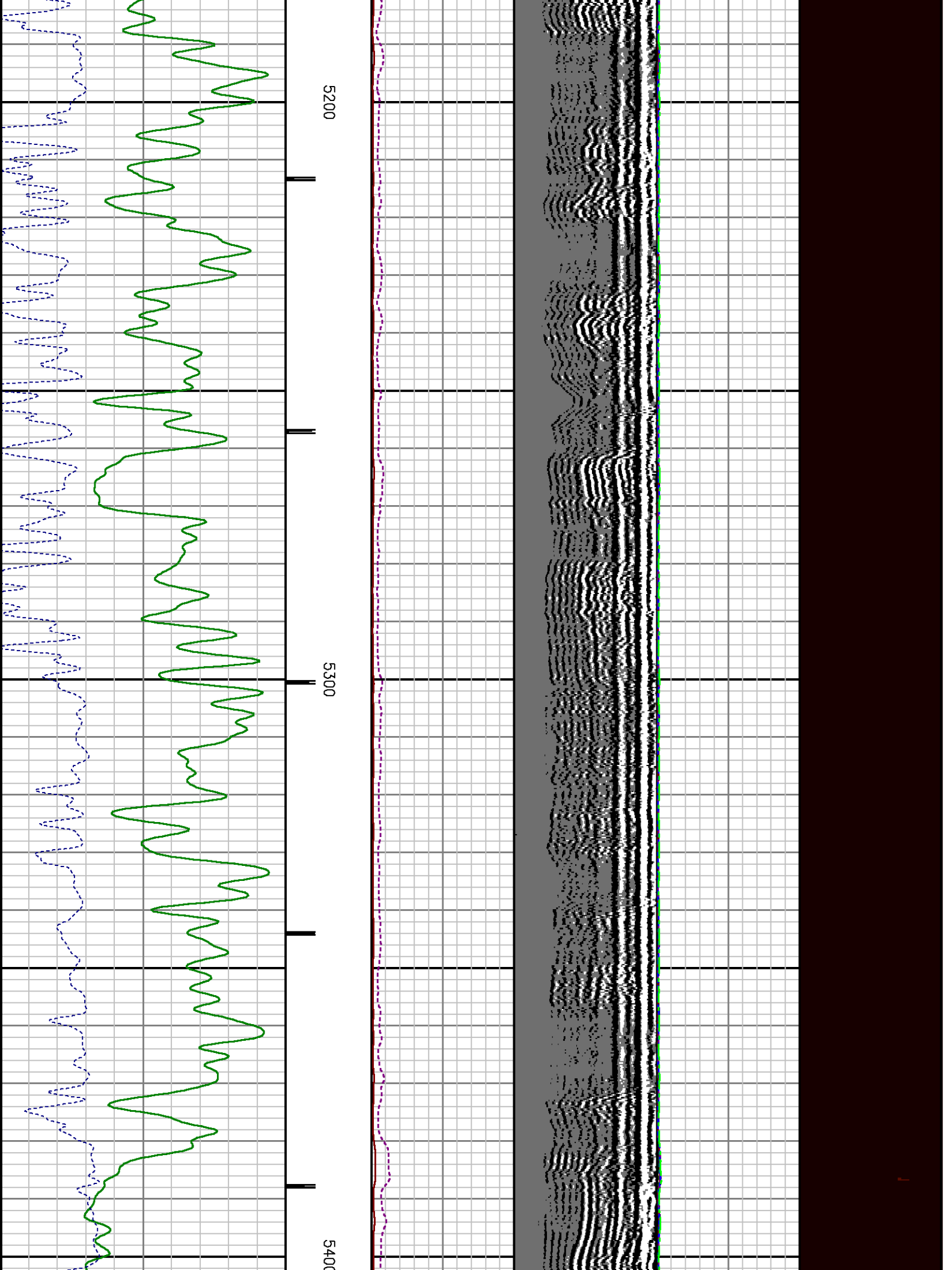


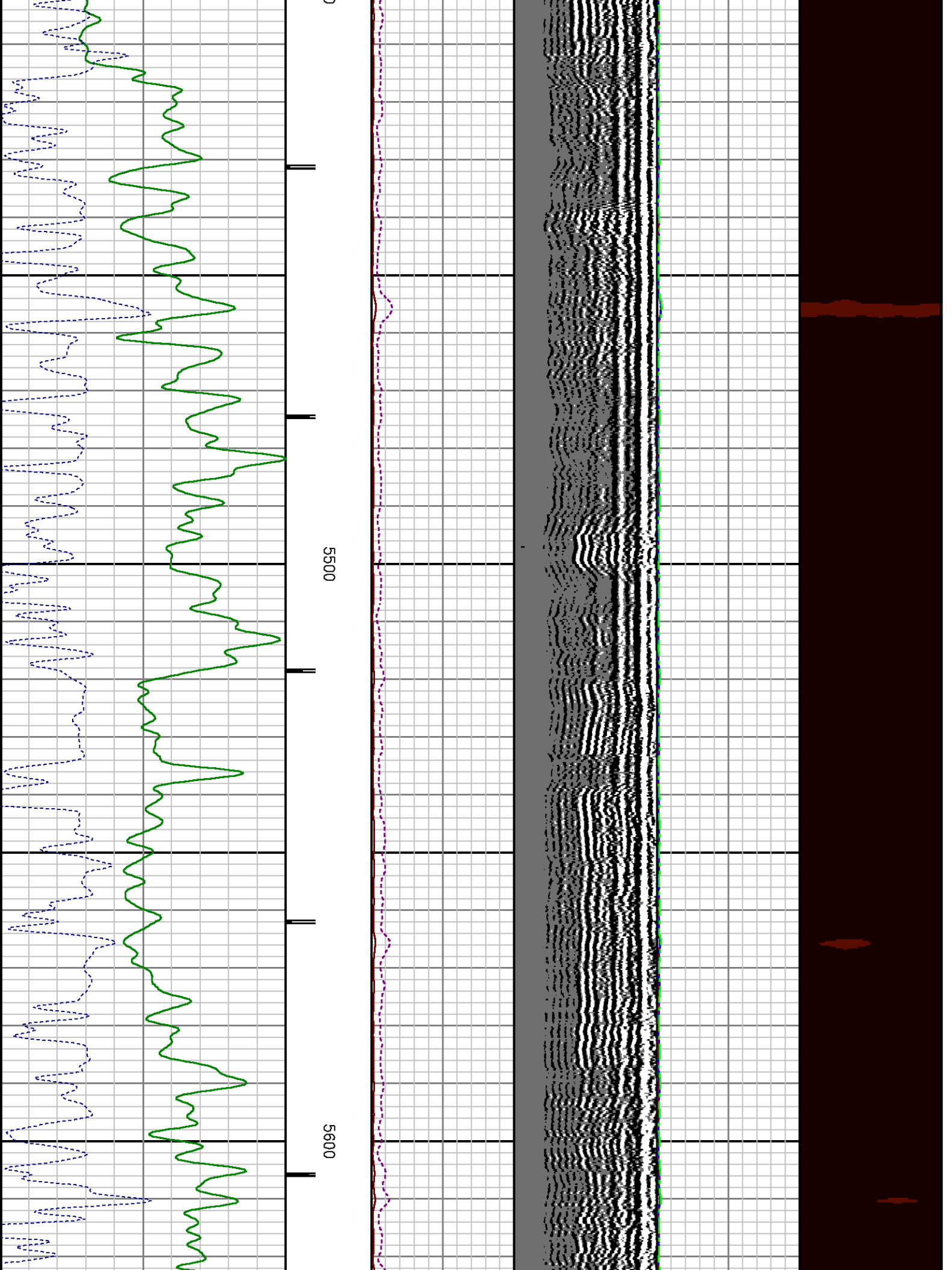


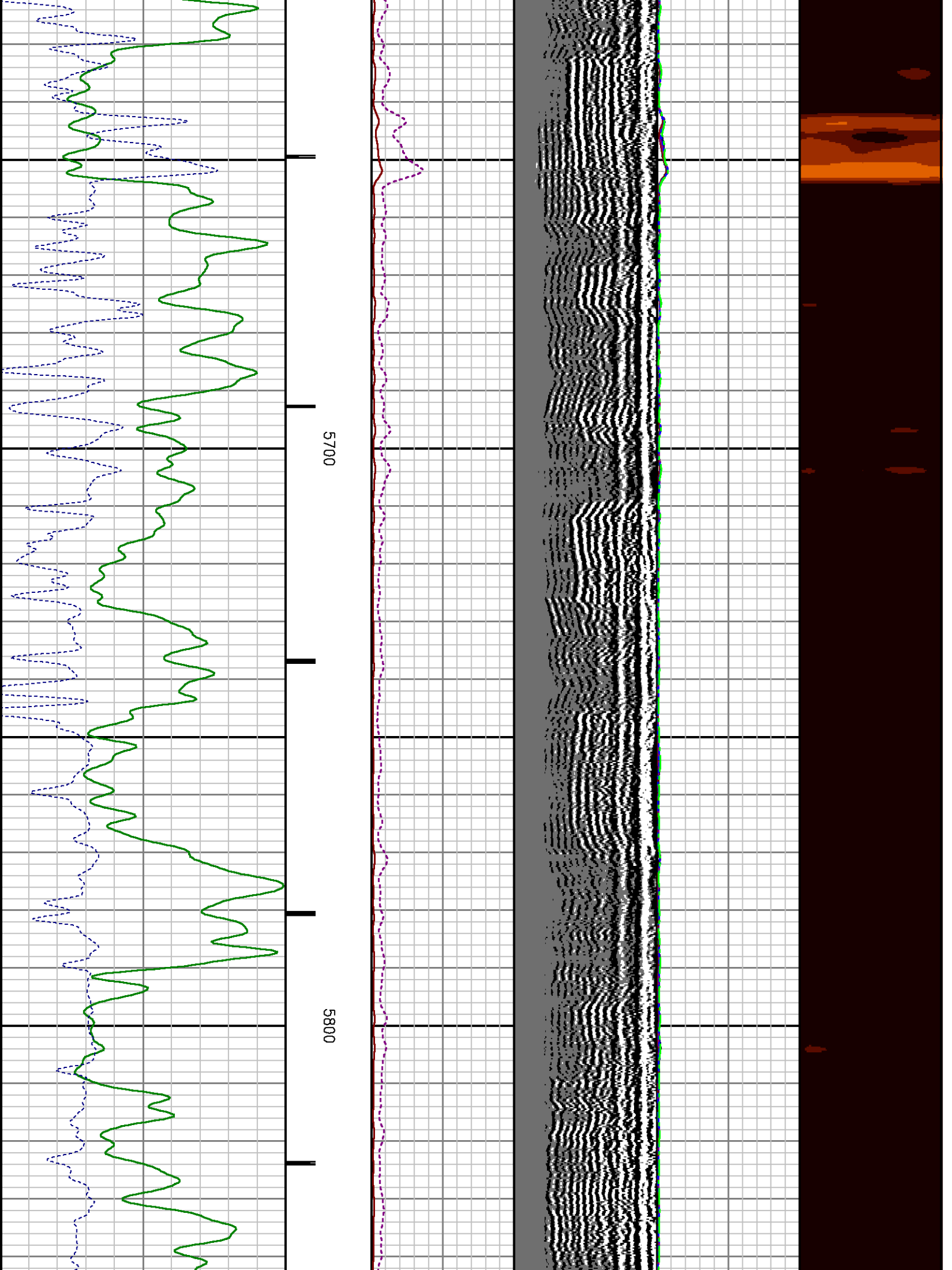


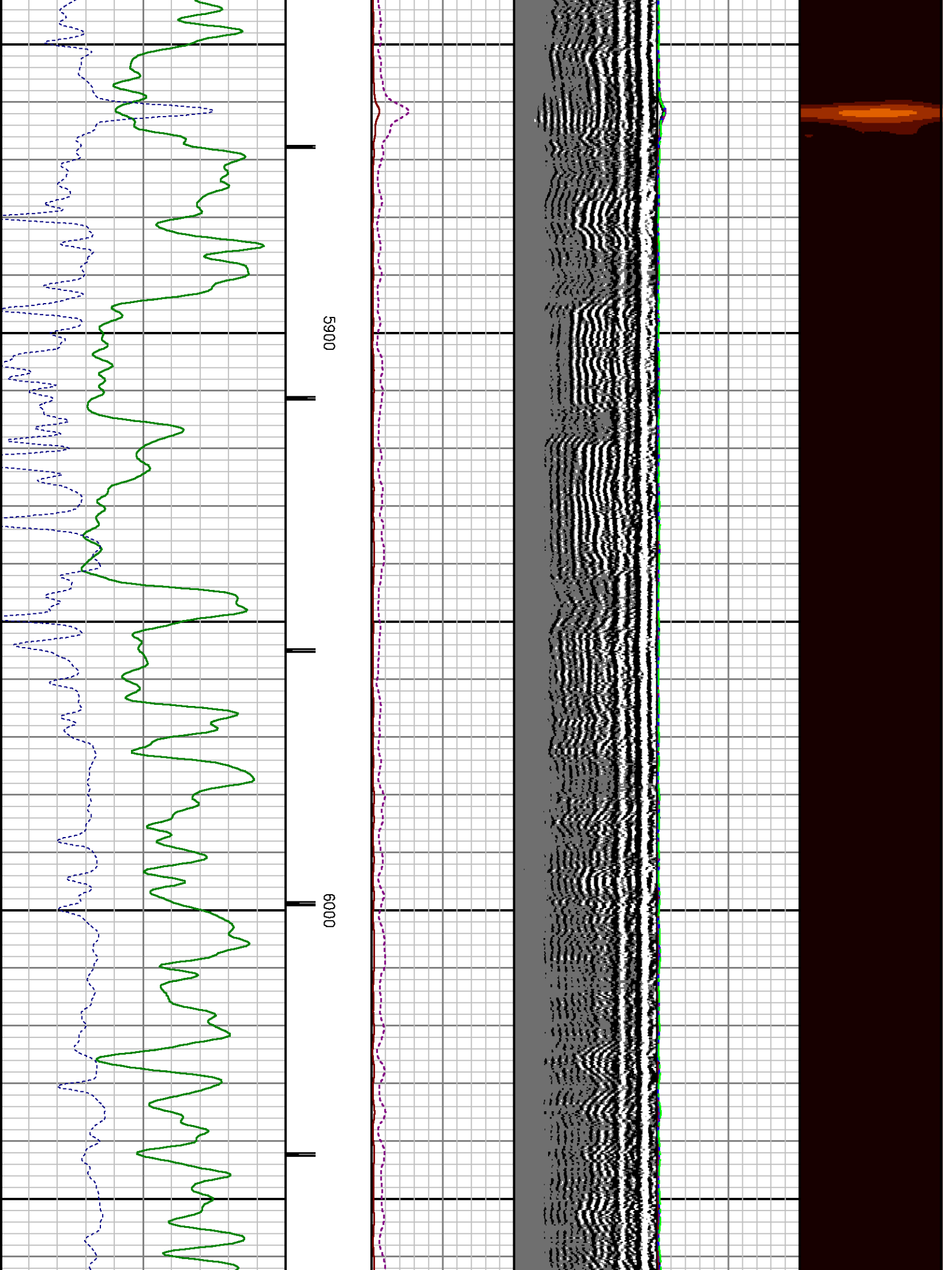


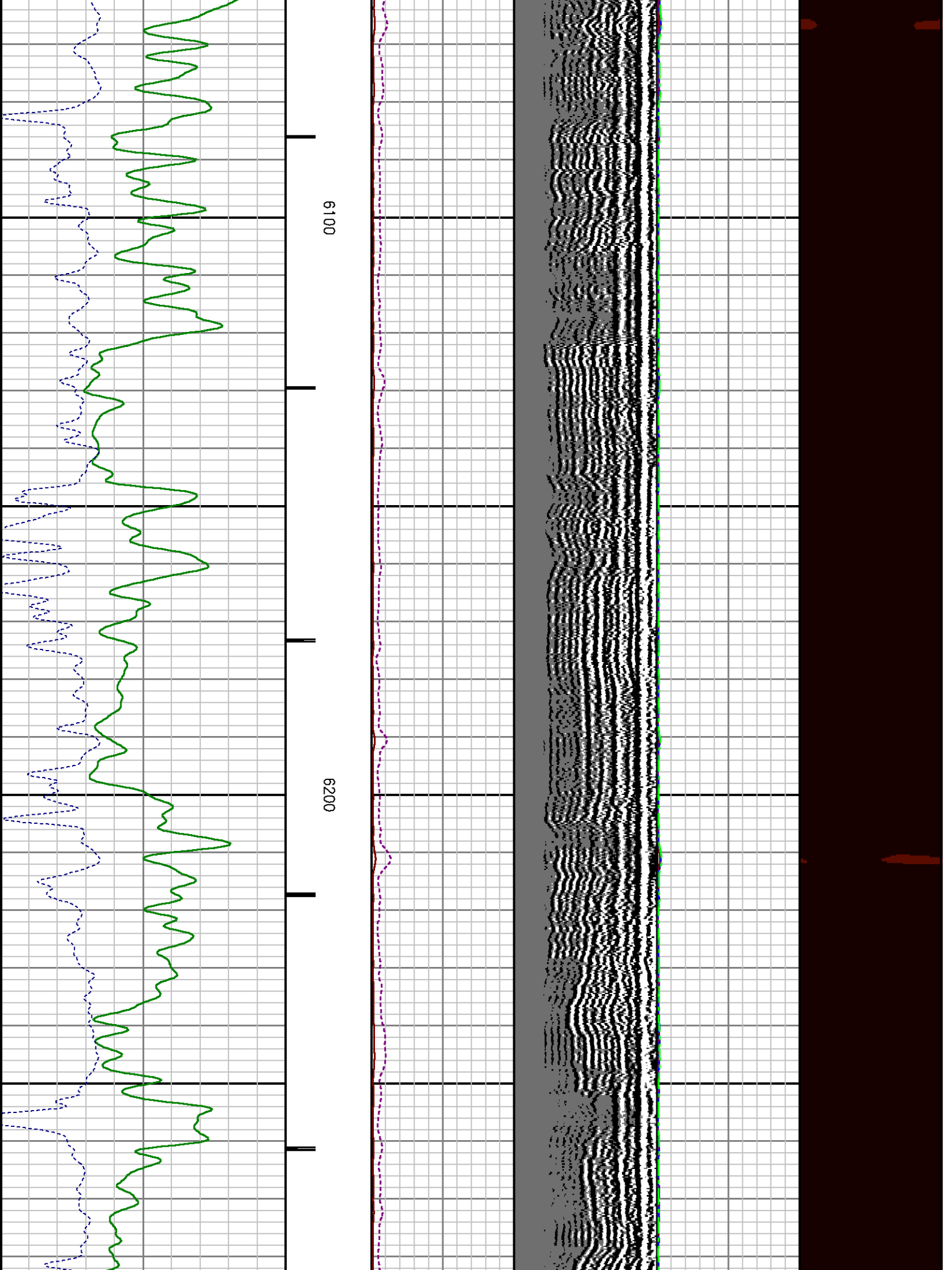


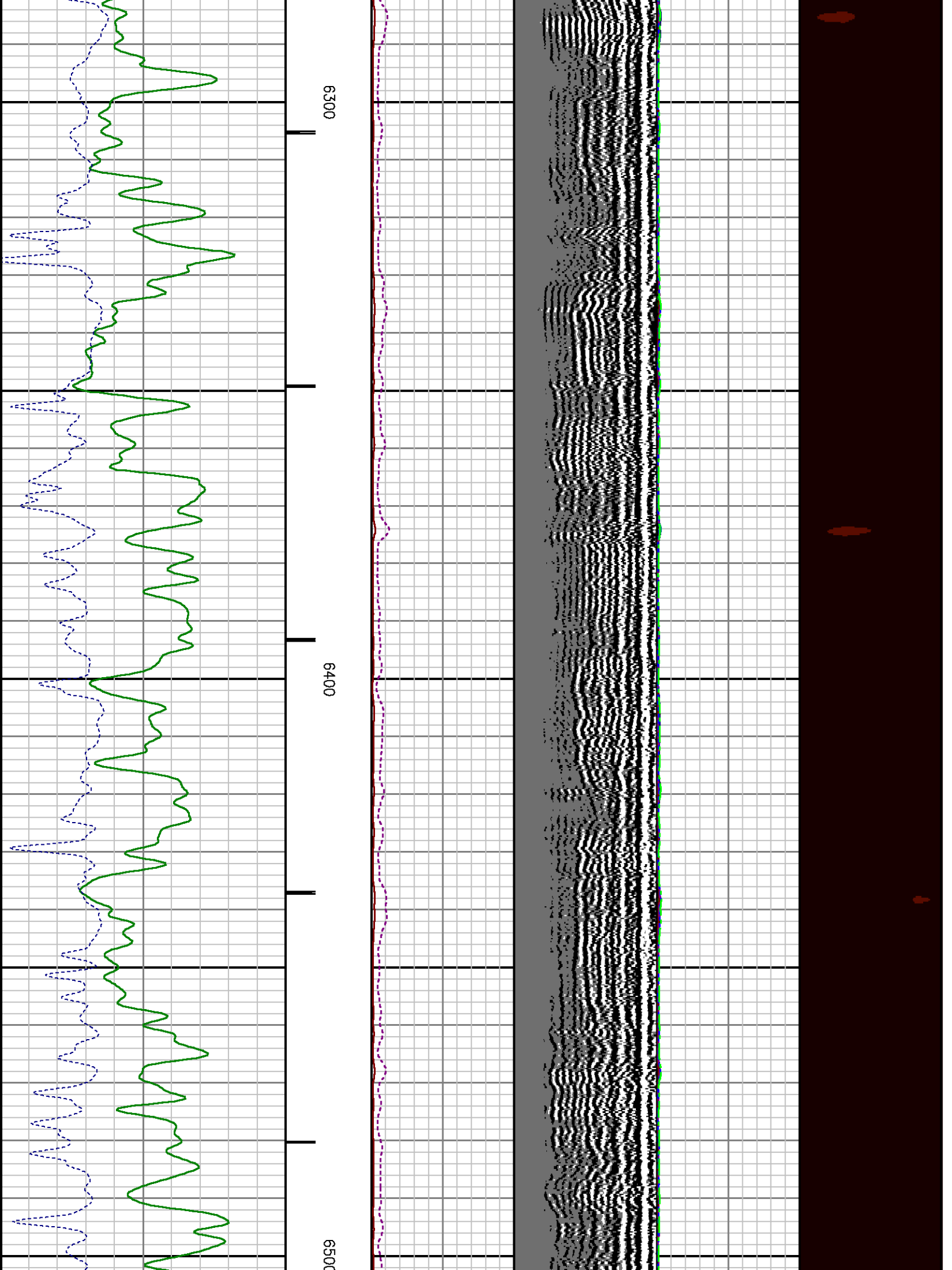


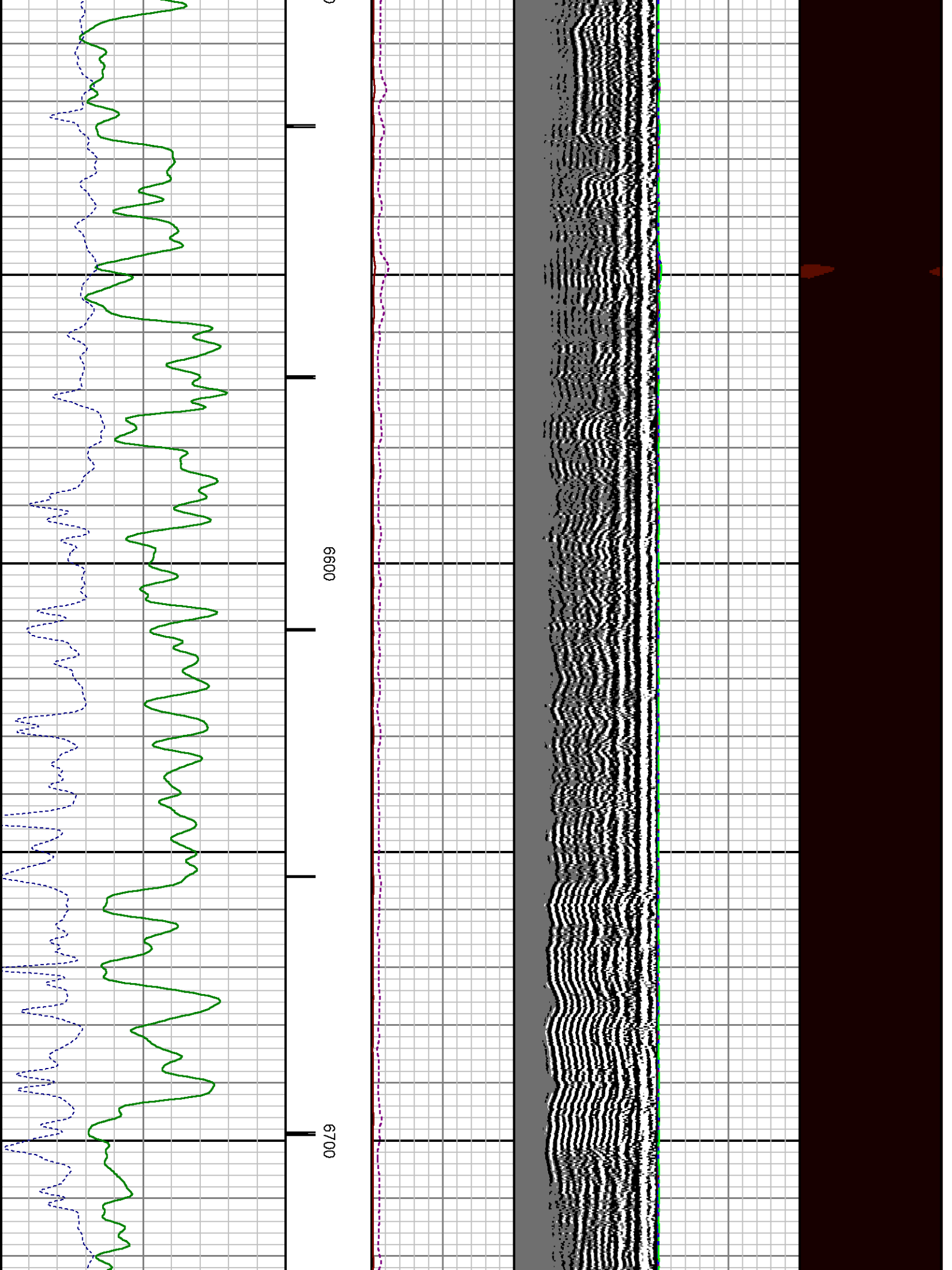


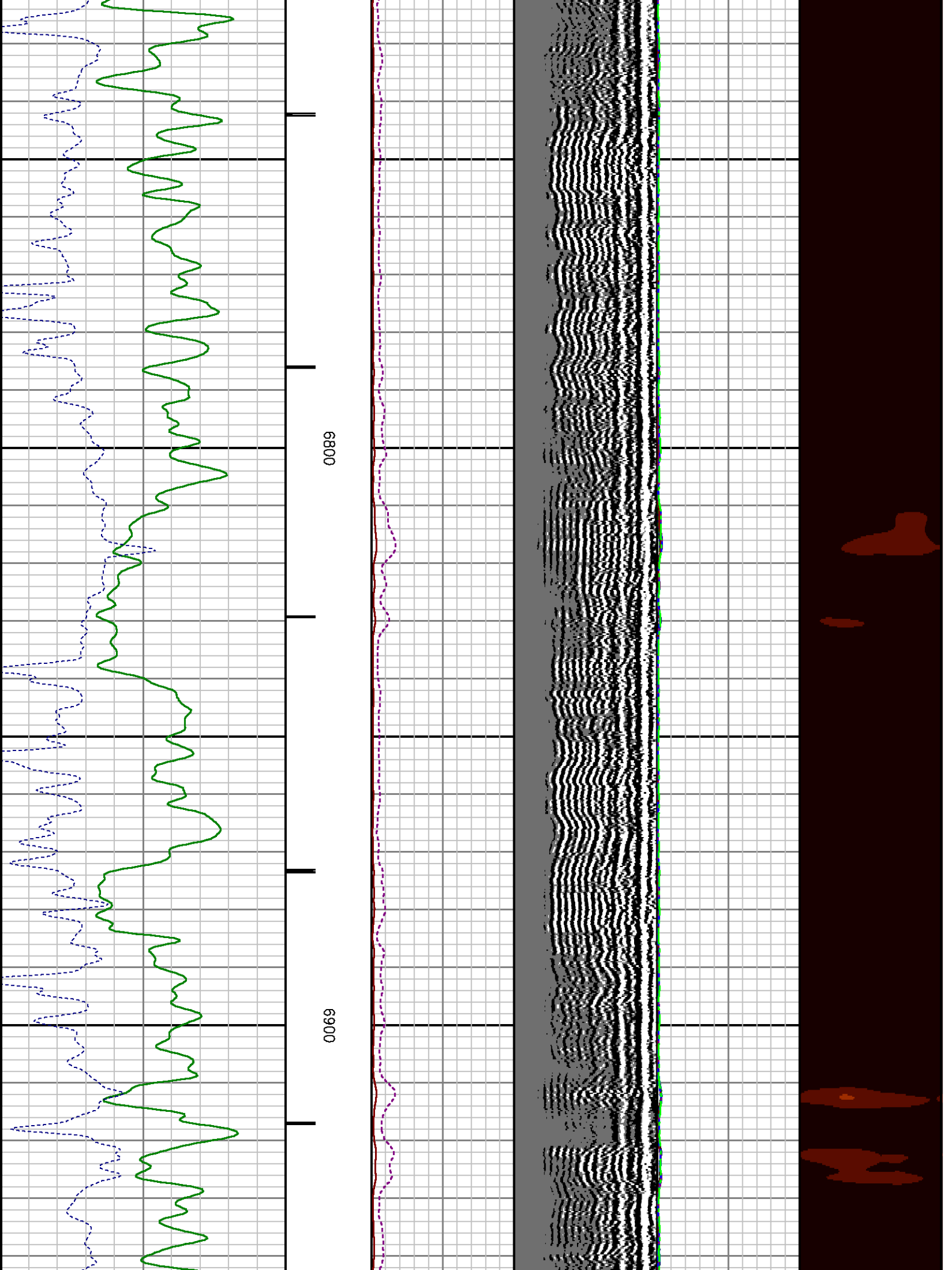


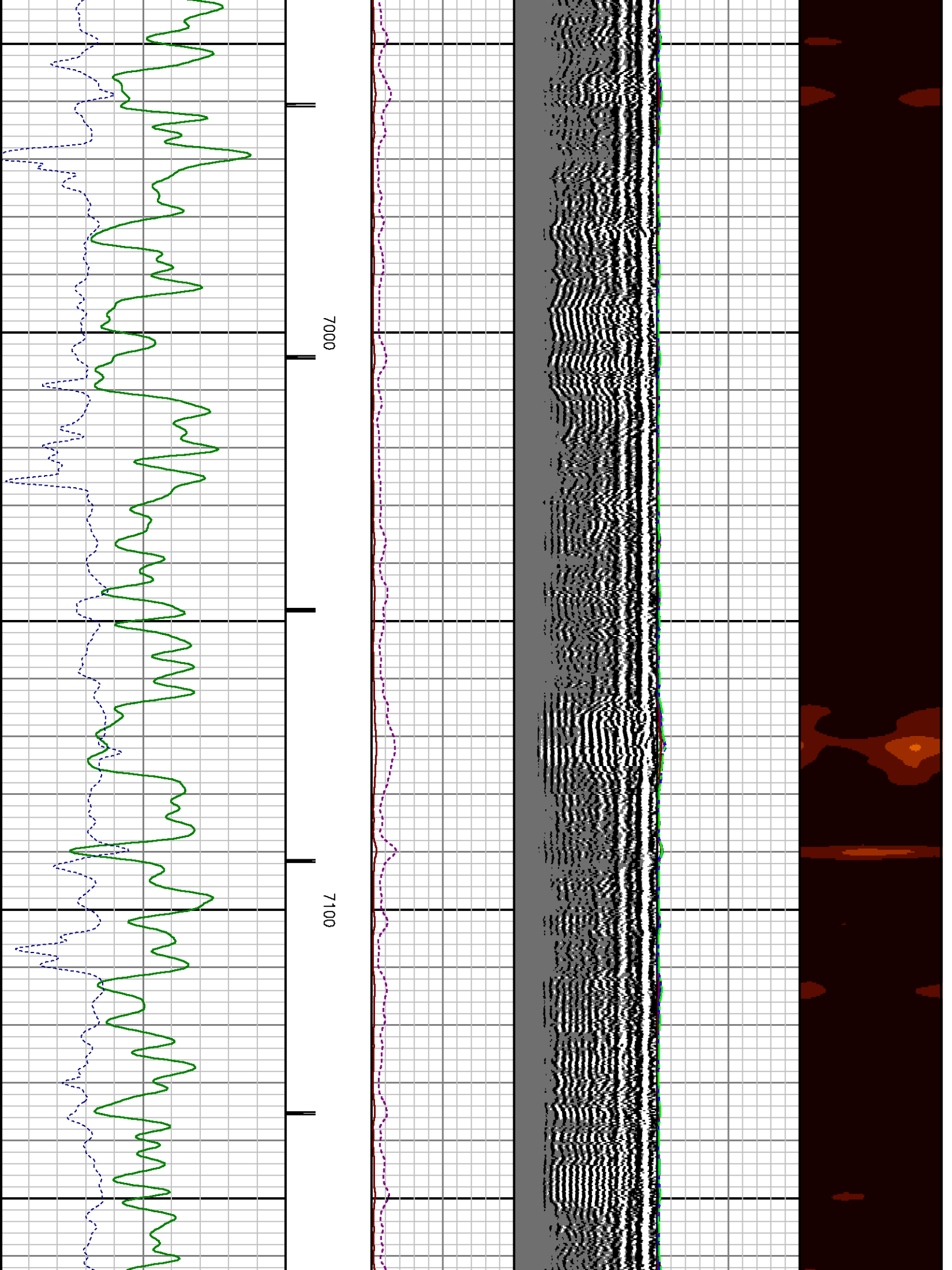


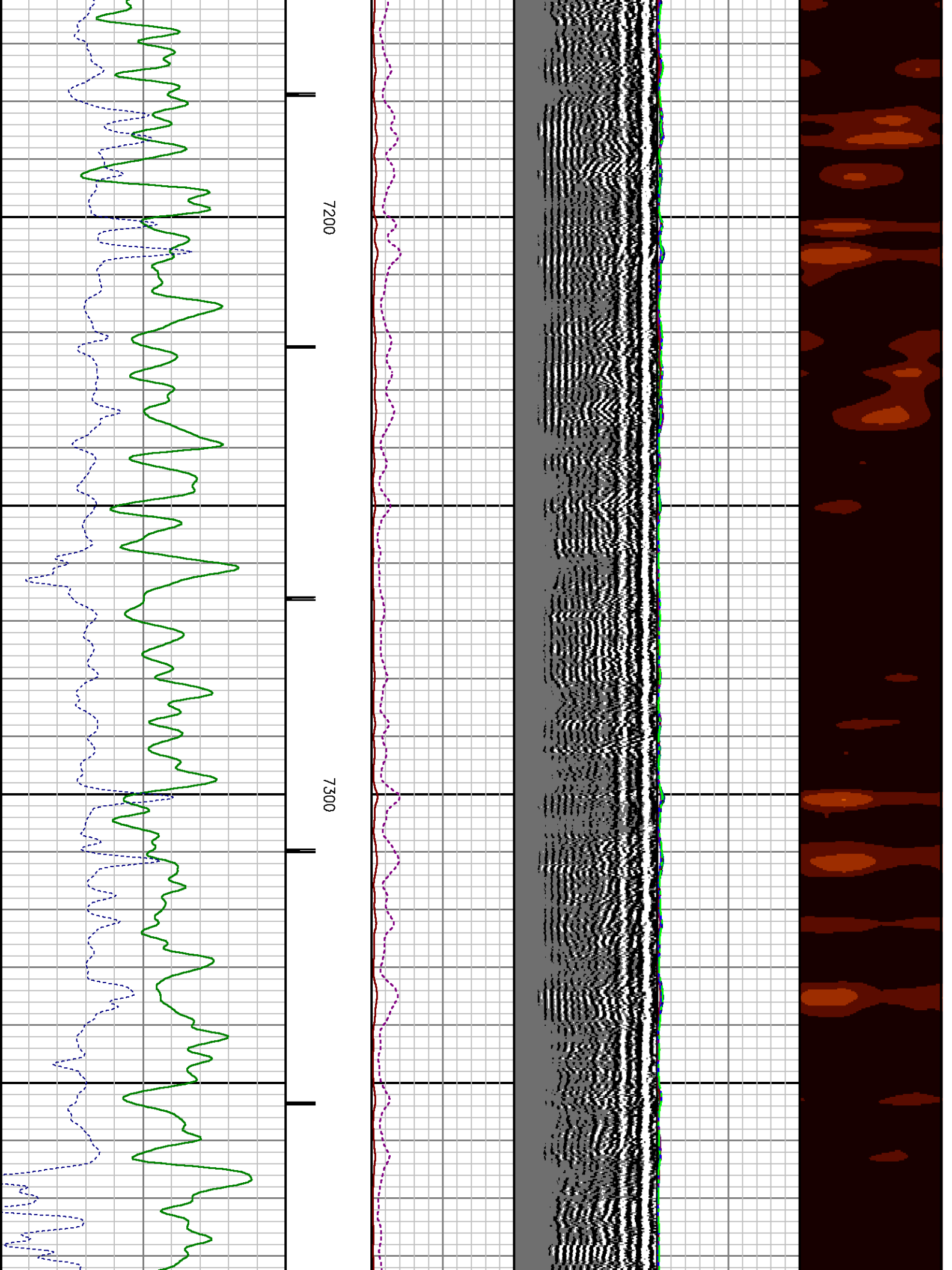


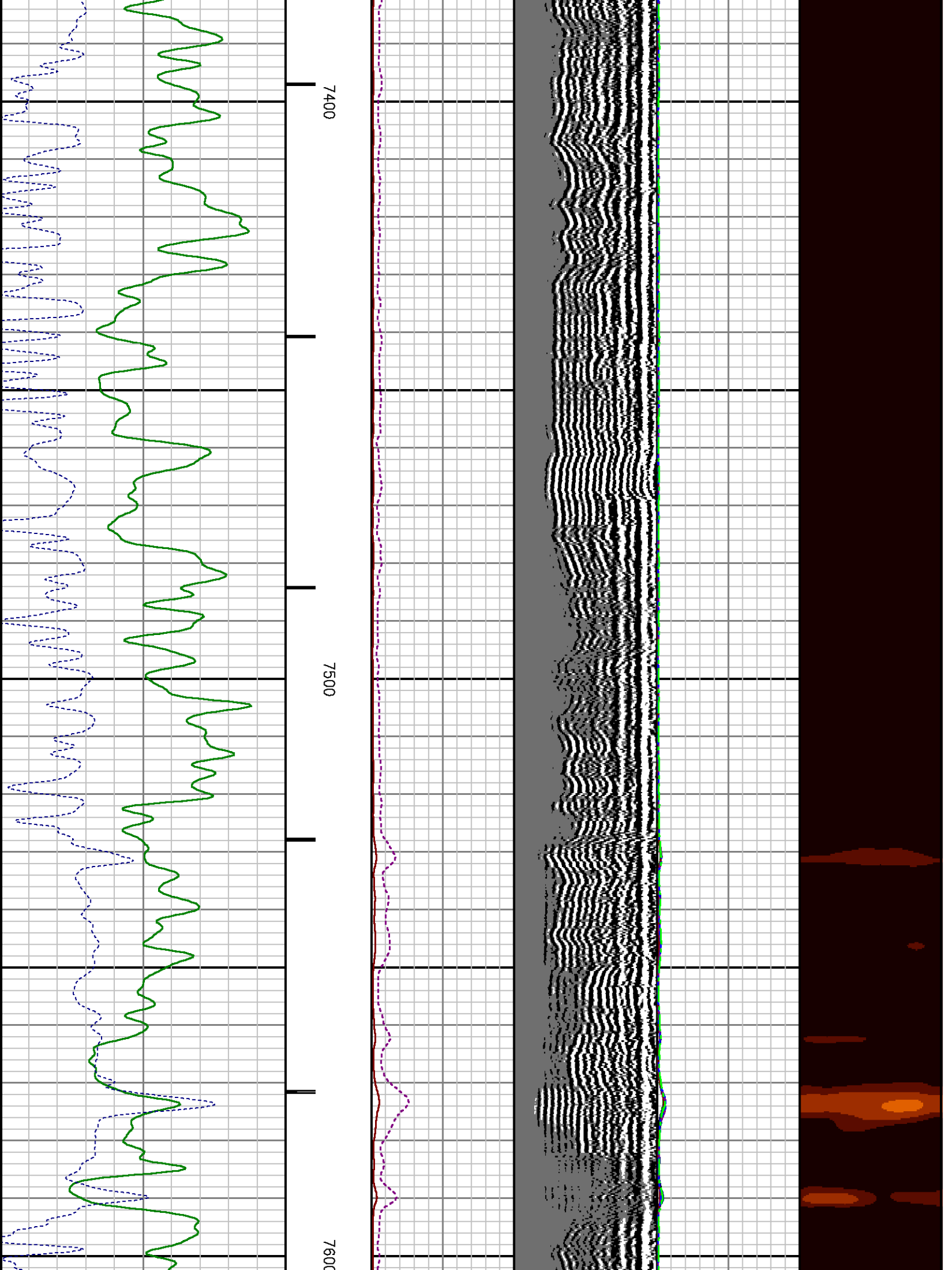


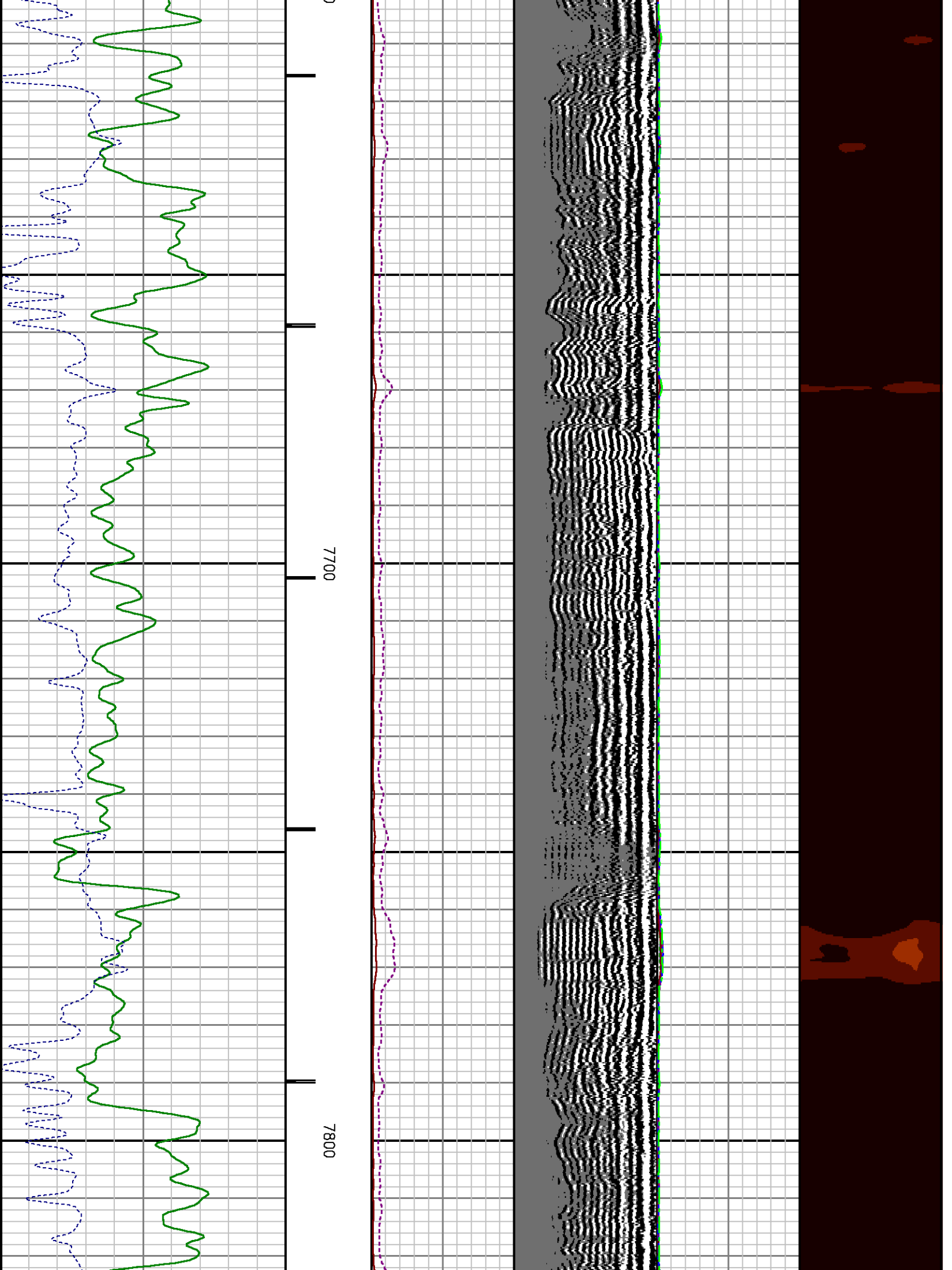


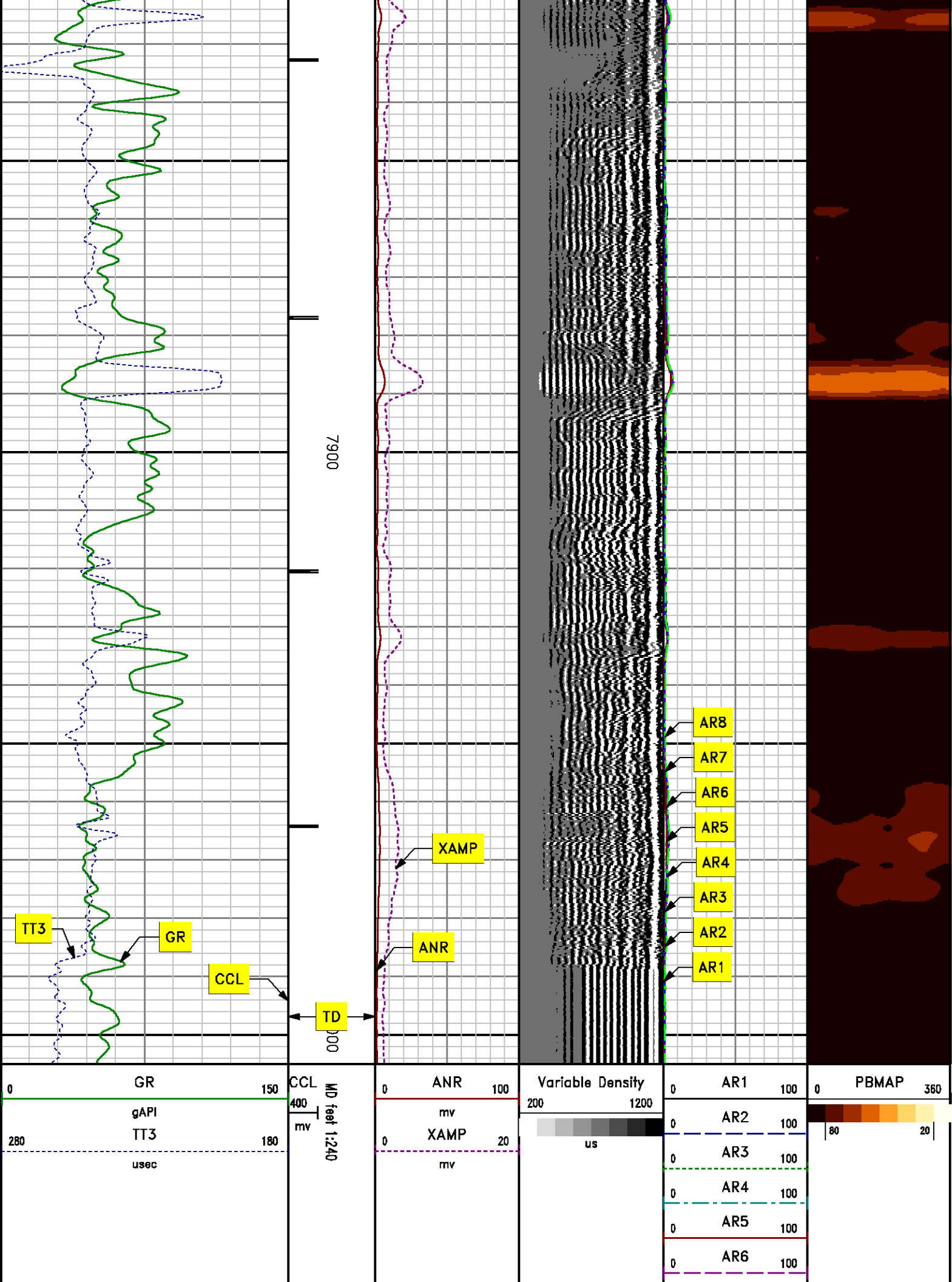












0	AR7	100
0	AR8	100

REPEAT PASS *0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.653	usec	7679.906	8017.000
RAL	Amp Gate Start Near	197.374	usec	7679.906	8017.000
RAL	Amp Gate Start Radial	198.140	usec	7679.906	8017.000
RAL	Amp Gate Width Far	25.000	usec	7679.906	8017.000
RAL	Amp Gate Width Near	25.000	usec	7679.906	8017.000
RAL	Amp Gate Width Radial	25.000	usec	7679.906	8017.000
RAL	casing od	4.500	inches	7679.906	8017.000
RAL	casing wt	11.600	lbm/ft	7679.906	8017.000
RAL	FB Start Far	291.900	usec	7679.906	8017.000
RAL	FB Start Near	175.391	usec	7679.906	8017.000
RAL	FB Start Radial	175.391	usec	7679.906	8017.000
RAL	FB Thresh Far	10.000	mv	7679.906	8017.000
RAL	FB Thresh Near	4.000	mv	7679.906	8017.000
RAL	FB Thresh Radial	4.000	mv	7679.906	8017.000
RAL	Fluid Travel Time	200.000	usec/ft	7679.906	8017.000

DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

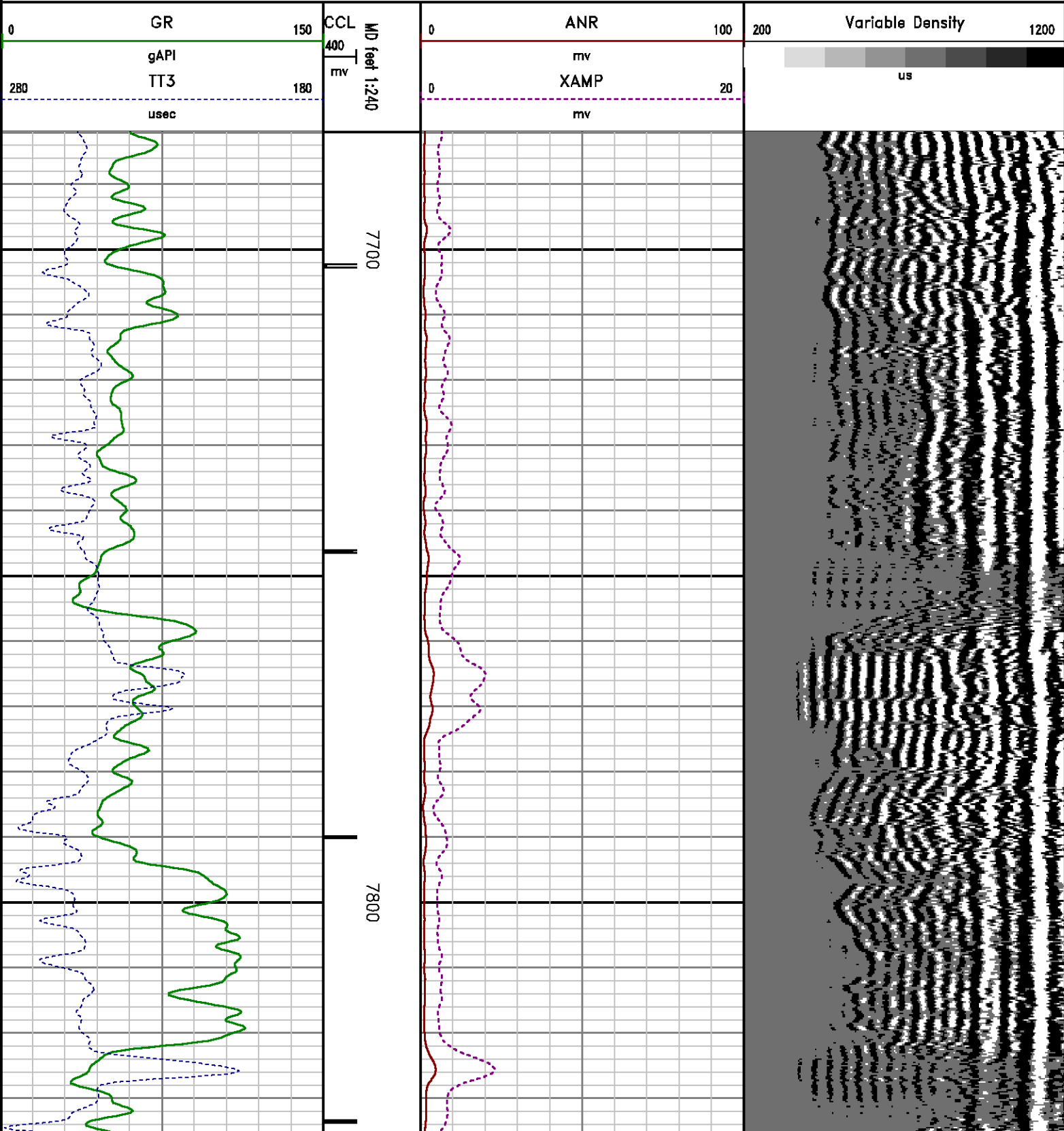
Well : DIAMOND ELK PA 343-2

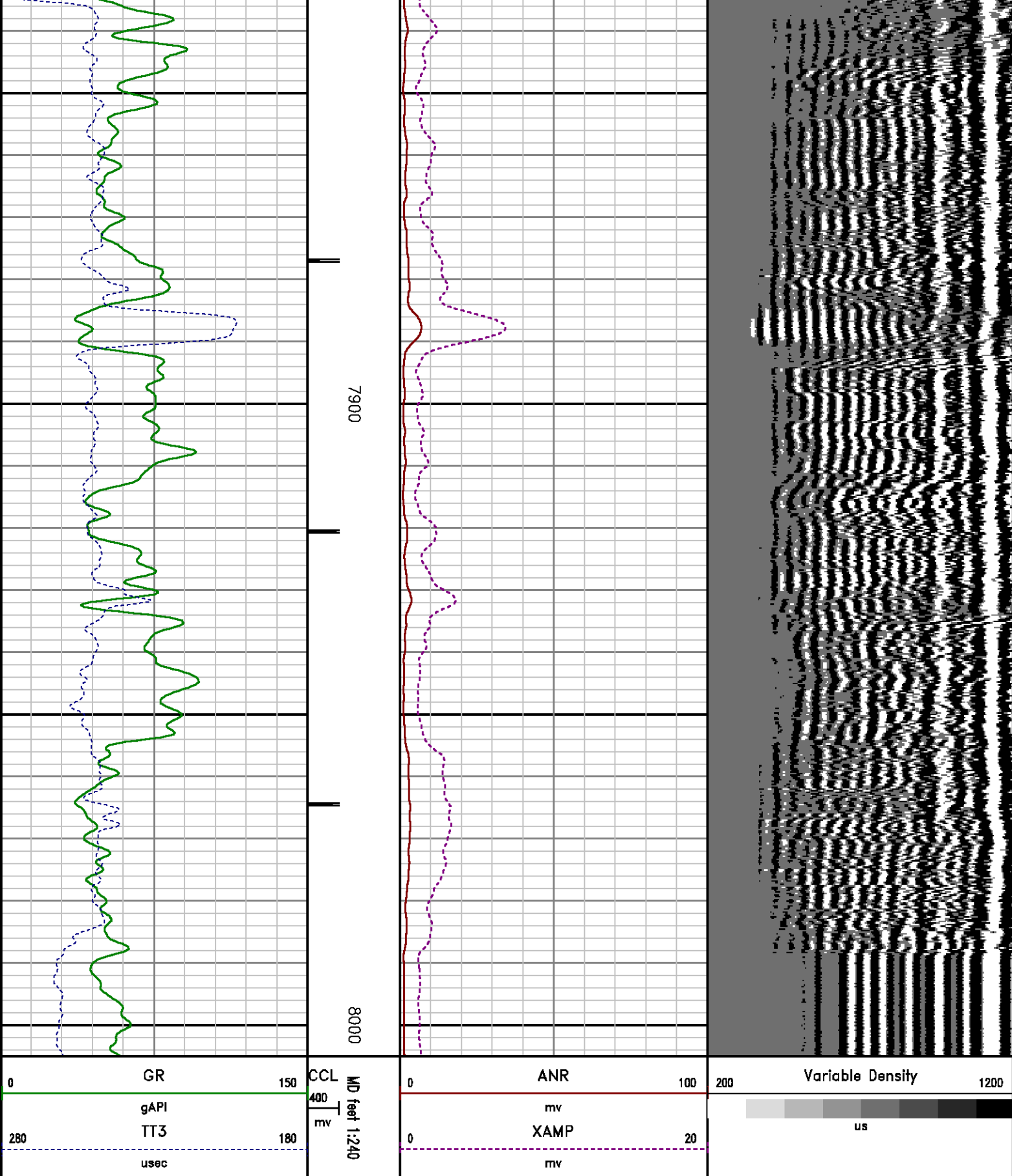
File Name : d:\welldata\343cbl\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 7682.00 - 8005.00 feet UP

Created : 5/17/2013 8:45:07 AM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\539M16_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu May 16 08:57:09 2013 TOOL SERIES: 1426XA ASSET: 539 SEQ: M16

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	218	216	30	166	25	-0.758	100.00	0.19
3 Ft. Receiver	217	216	30	158	25	-1.767	100.00	0.18
5 Ft. Receiver	324	323	30	257	25	-0.395	150.00	0.20
Radial #1	218	216	30	148	25	1.569	100.00	0.18
Radial #2	218	216	30	148	25	0.569	100.00	0.19
Radial #3	218	216	30	148	25	0.142	100.00	0.19
Radial #4	217	216	30	148	25	-0.032	100.00	0.19
Radial #5	217	216	30	148	25	-0.300	100.00	0.18
Radial #6	216	216	30	148	25	-0.044	100.00	0.18
Radial #7	216	216	30	148	25	-0.346	100.00	0.18
Radial #8	218	216	30	148	25	-0.042	100.00	0.18

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\539M16 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu May 16 08:58:49 2013 TOOL SERIES: 1426XA ASSET: 539 SEQ: M16

Tool Delay [usec] -58.00 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	-0.196	0.000	1.00	100.000
3 Ft. Receiver	200	30	-2.899			
5 Ft. Receiver	317	30	-3.783			
Radial #1	200	30	-4.112			
Radial #2	200	30	-3.575			
Radial #3	200	30	-3.454			
Radial #4	200	30	-3.702			
Radial #5	200	30	-5.067			
Radial #6	200	30	-3.945			
Radial #7	200	30	-4.048			
Radial #8	200	30	-4.202			

GAMMA RAY

Calibration File: C:\case\calver\GR\209M2.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun May 12 13:40:15 2013		TOOL SERIES: 1355XA		ASSET: 209		SEQ: M2	
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]	
S2K WA612	129.07	523.51	0.469	60.53	245.53	185.00	

Verification File: C:\case\calver\GR\209M2.VP

PRIMARY LOG VERIFICATION

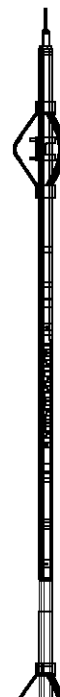
DATE/TIME PERFORMED: Sun May 12 13:41:35 2013		TOOL SERIES: 1355XA		ASSET: 209		SEQ: M2	
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]	
S2K WA612	131.47	531.85	0.469	61.66	249.45	187.79	

TOOL DIAGRAM

OTA SHORT CABLE HEAD

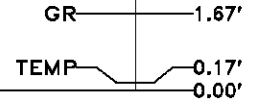
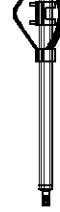
PROBE 2 3/4 DUAL RECEIVER RADII	
Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

RAL GR/TEMP/CCL/CHV DETECTOR	
Series	1355XA
Mnemonic	RAL
Diameter	2.75"



	18.89'
XMIT	12.71'
NEAR RCVR	9.63'
FAR RCVR	7.71'
CCL	5.79'

Weight	85.00 lb
Length	6.96'
Measure Point	0.17' TEMP
Measure Point	1.67' GR
Measure Point	5.79' CCL
Temp Rating	400.00 °F
Press Rating	20000.00 PSI



Total Length: 18.89'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas



Company	WPX ENERGY		
Well	DIAMOND ELK PA 343-2		
Field	PARACHUTE		
County	GARFIELD	State	COLORADO

File No:
CH072034
API No:
05045208920000

Location				Elevations	
SHL: 2319' FSL & 682' FWL SEC:1				KB	6053 ft
BHL: 1959' FSL & 737' FEL SEC:2				DF	
				GL	6027 ft
SEC	2	TWP	7S	RGE	95W

2 7S 95W
GV 84-1
NABORS SSD 574