BAKER HUGHES

Baker Atlas

RADIAL ANALYSIS BOND LOG

File No:	CH090082
API No:	05045213810000
Company	WPX ENERGY
Well	AP 424-17-695
Field	PARACHUTE
County	GARFIELD
State	COLORADO

Location

17 6S 95W

AP 21-20-695 PAD

NABORS 573

SHL: 32' FNL & 2488' FWL (20 6S 95W)

BHL: 519' FSL & 2243' FWL (17 6S 95W)

SEC 17 TWP 6S RGE 95W

Other Services

RPM

Permanent Datum	GL	Elevation	6909 ft
Log Measured From	KB	26 ft	Above P. D.
Drill Measured From	KELLY BUSHING		

Elevations

KB 6935 ft

DF

GL 6909 ft

Date	11/OCT/14		
Run	ONE		
Service Order	US090082J		
Depth Driller	9501 ft		
Depth Logger	9468 ft		
Bottom Logged Interval	9458 ft		
Top Logged Interval	26 ft		
Time Started	1000		
Time Finished	1400		
Operator Rig Time	4 HRS		
Type of Fluid in Hole	WATER		
Fluid Density	NA		
Salinity	NA		
Fluid Level	76 ft		
Logged Cement Top	NA		
Wellhead Pressure	0 psi		
Maximum Hole Deviation	NA		
Nominal Logging Speed	65 fpm		
Maximum Recorded Temperature	262 degF		
Reference Log	NONE		
Reference Log Date	NA		
Equipment No. / Location	4271	GRAND JCT	
Recorded By	FLOYD RENEAU		
Witnessed By	ORAN JACOBS		

- 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.

Casing Record

Size	Weight	Grade	From	To
9.625 in			26 ft	2508 ft
4.5 in	11.6 lbm/ft	I-80	26 ft	9501 ft

Borehole Record

Bit Size	From	To
13.5 in	26 ft	2508 ft
8.75 in	2508 ft	9501 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 -2 feet.

Logged with zero PSI at wellhead.

BHT = 262°F

SJ = 5831'-5853'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10421496	CENT
1	1	GR/CCL	2459XA	10218503	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	31.905	9478.000
RAL	Amp Gate Start Near	195.000	usec	31.905	9478.000
RAL	Amp Gate Start Radial	195.000	usec	31.905	9478.000
RAL	Amp Gate Width Far	25.000	usec	31.905	9478.000
RAL	Amp Gate Width Near	25.000	usec	31.905	9478.000
RAL	Amp Gate Width Radial	25.000	usec	31.905	9478.000
RAL	casing od	4.500	inches	31.905	9478.000
RAL	casing wt	11.600	lbm/ft	31.905	9478.000
RAL	FB Start Far	291.900	usec	31.905	9478.000
RAL	FB Start Near	180.000	usec	31.905	9478.000
RAL	FB Start Radial	180.000	usec	31.905	9478.000
RAL	FB Thresh Far	10.000	mv	31.905	9478.000
RAL	FB Thresh Near	4.000	mv	31.905	9478.000
RAL	FB Thresh Radial	4.000	mv	31.905	9478.000
RAL	Fluid Travel Time	200.000	usec/ft	31.905	9477.593

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-11.360	AFAR	SIG	TT5			
2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

Created by : RAL, v4.8.008
Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY
Well : AP 424-17-695
File Name : d:\welldata\wpx\ap 424-17-695\ral424\main.xtf
Mode : PlotMgr 5.4.504
Interval : 0.00 - 9478.00 feet UP
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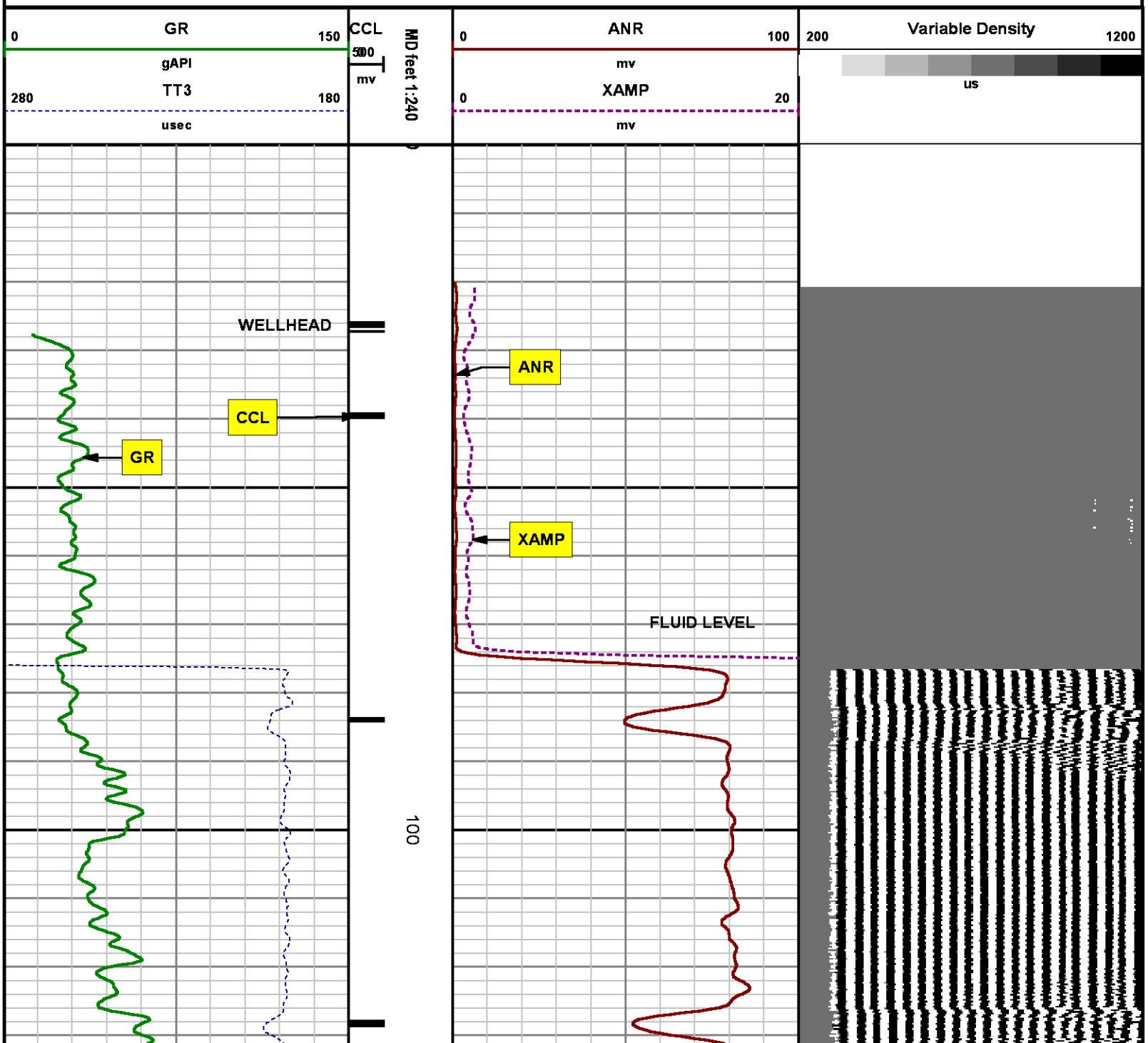

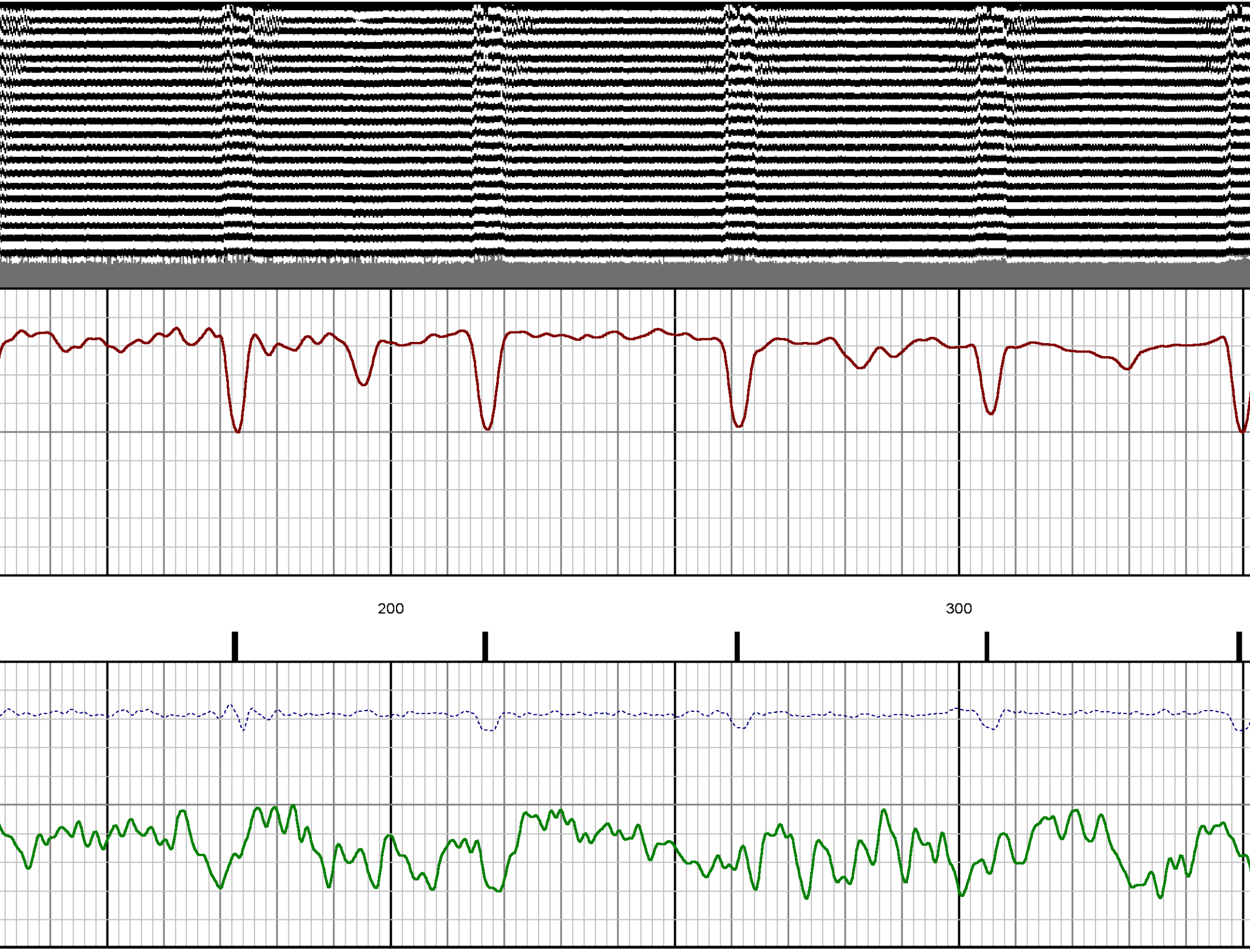
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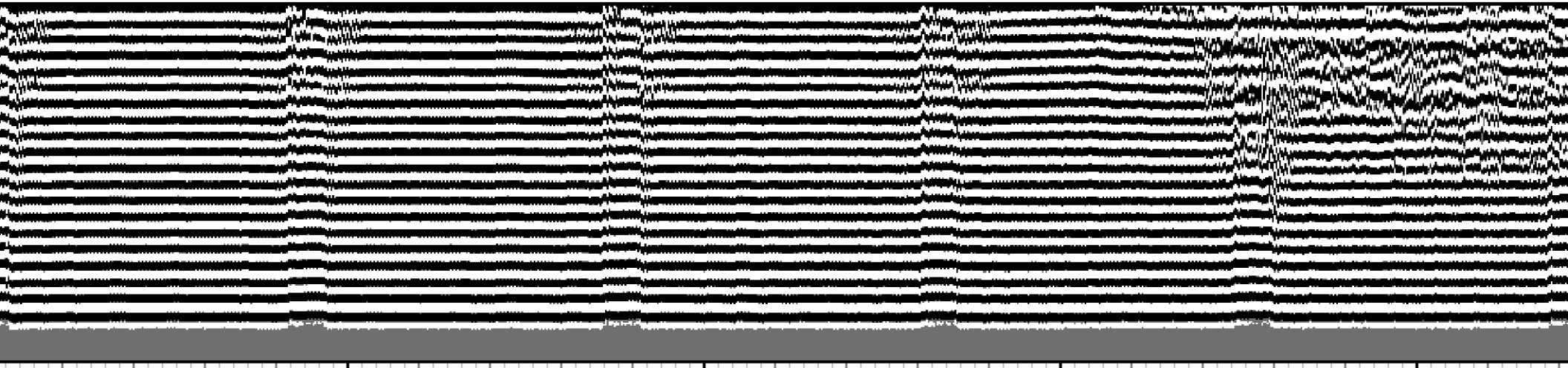

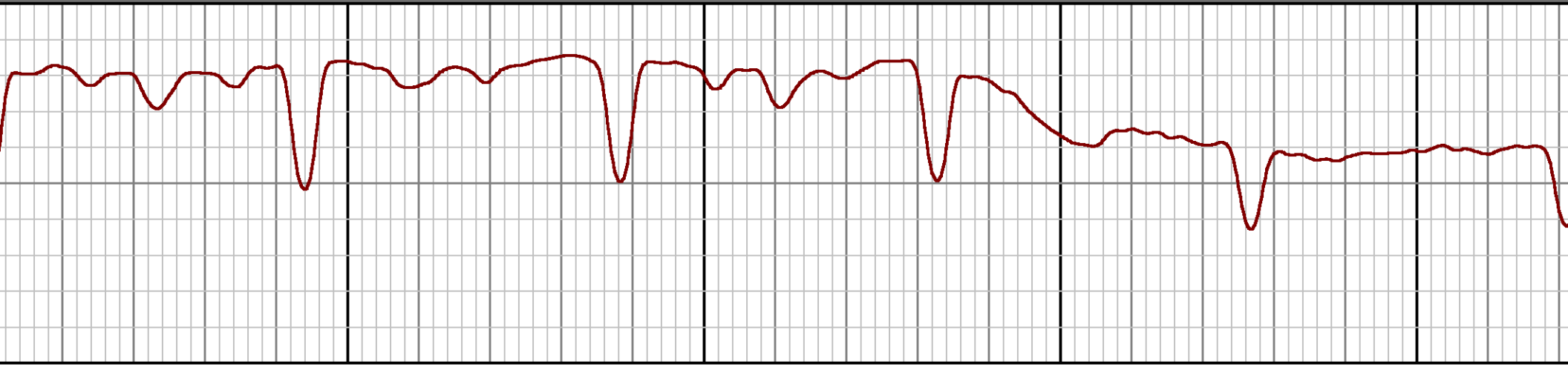

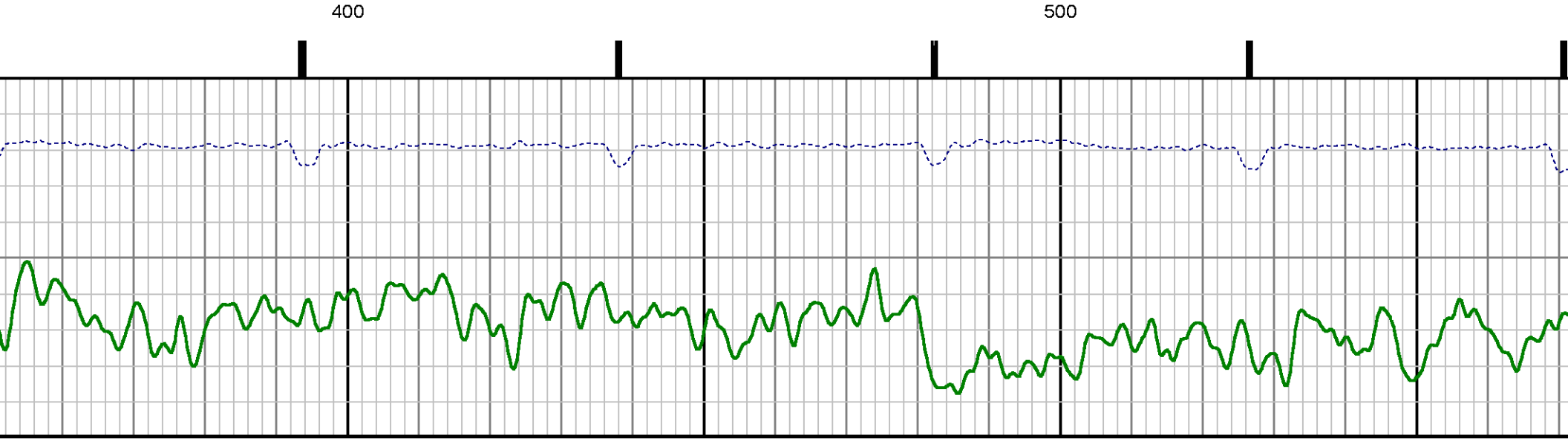
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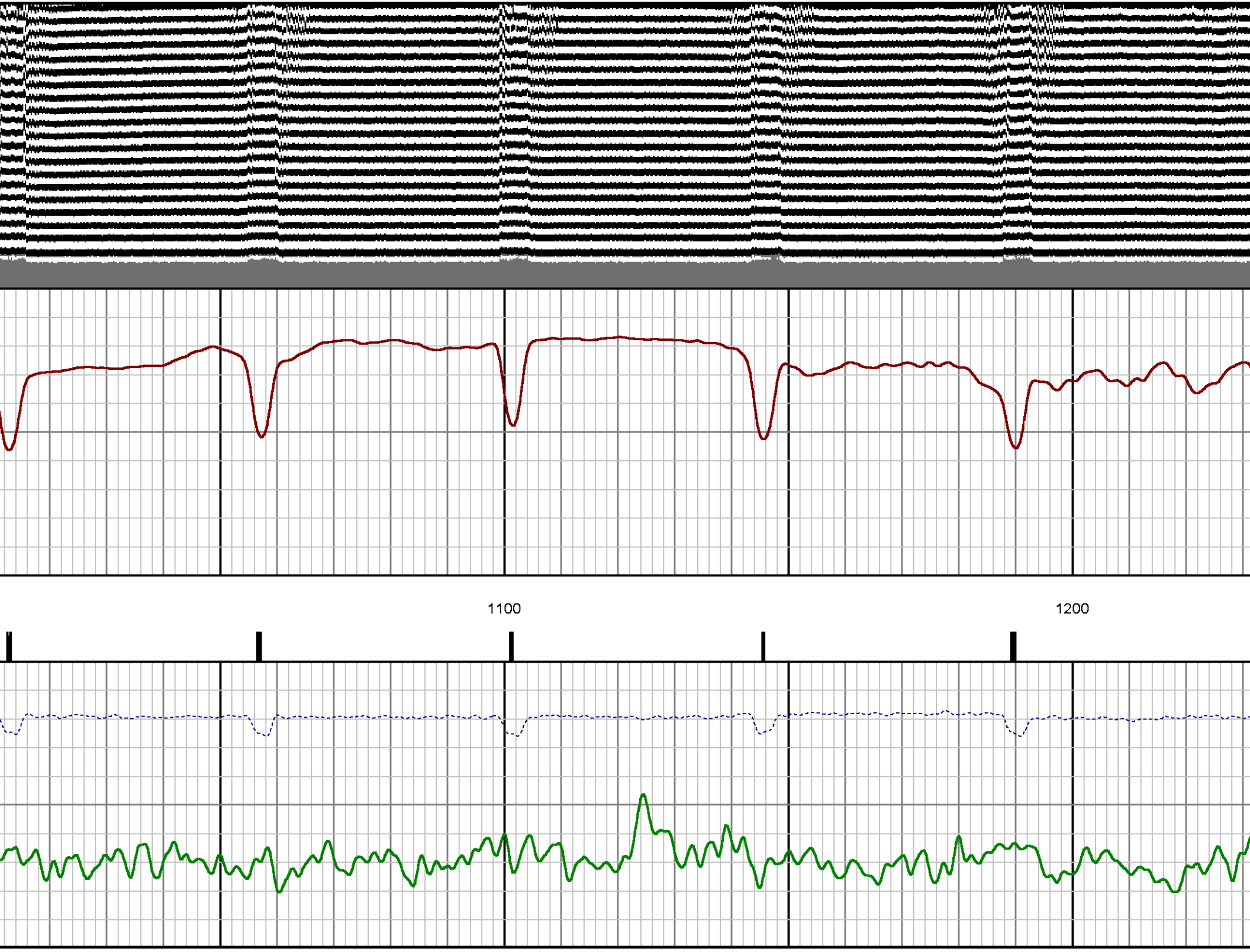
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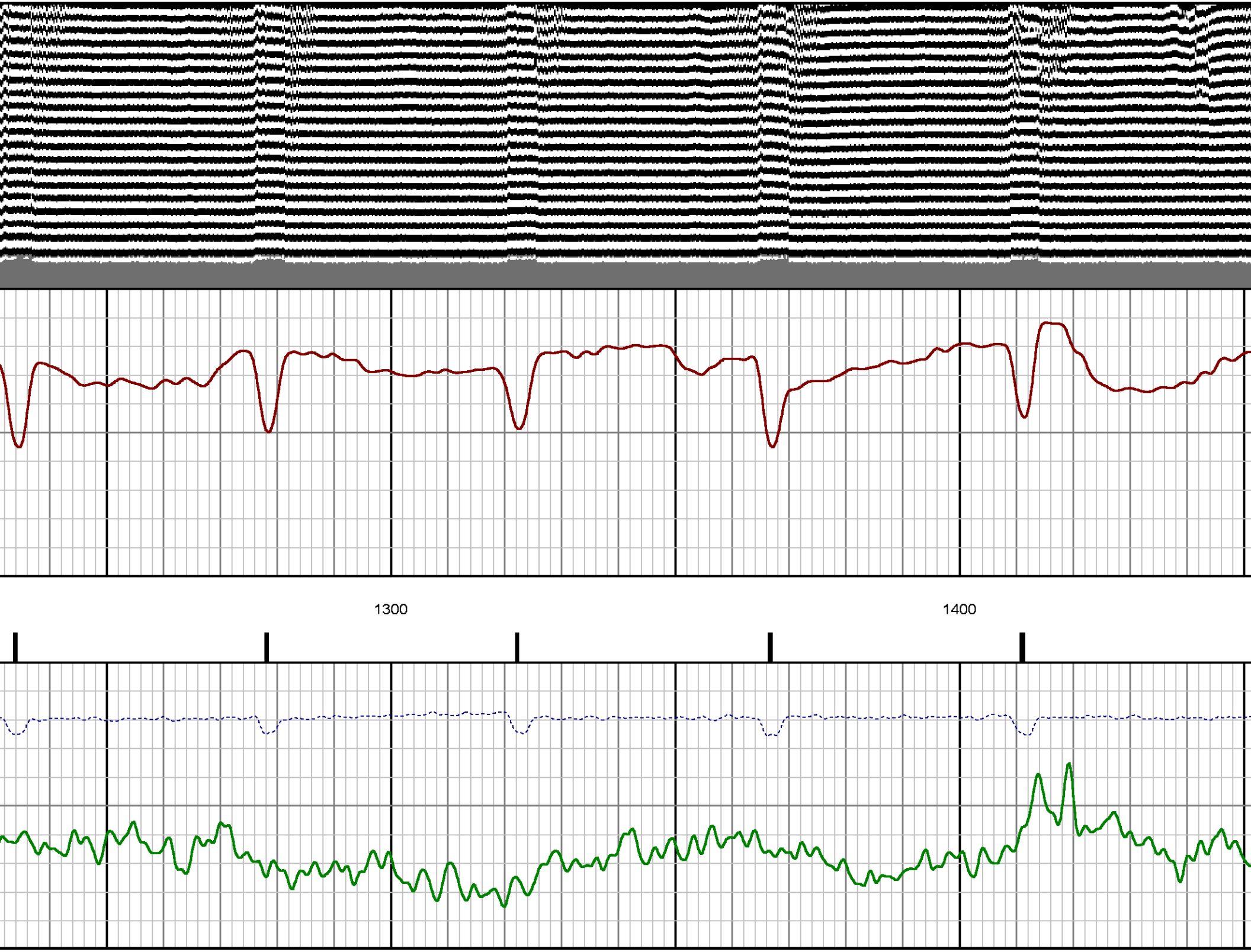
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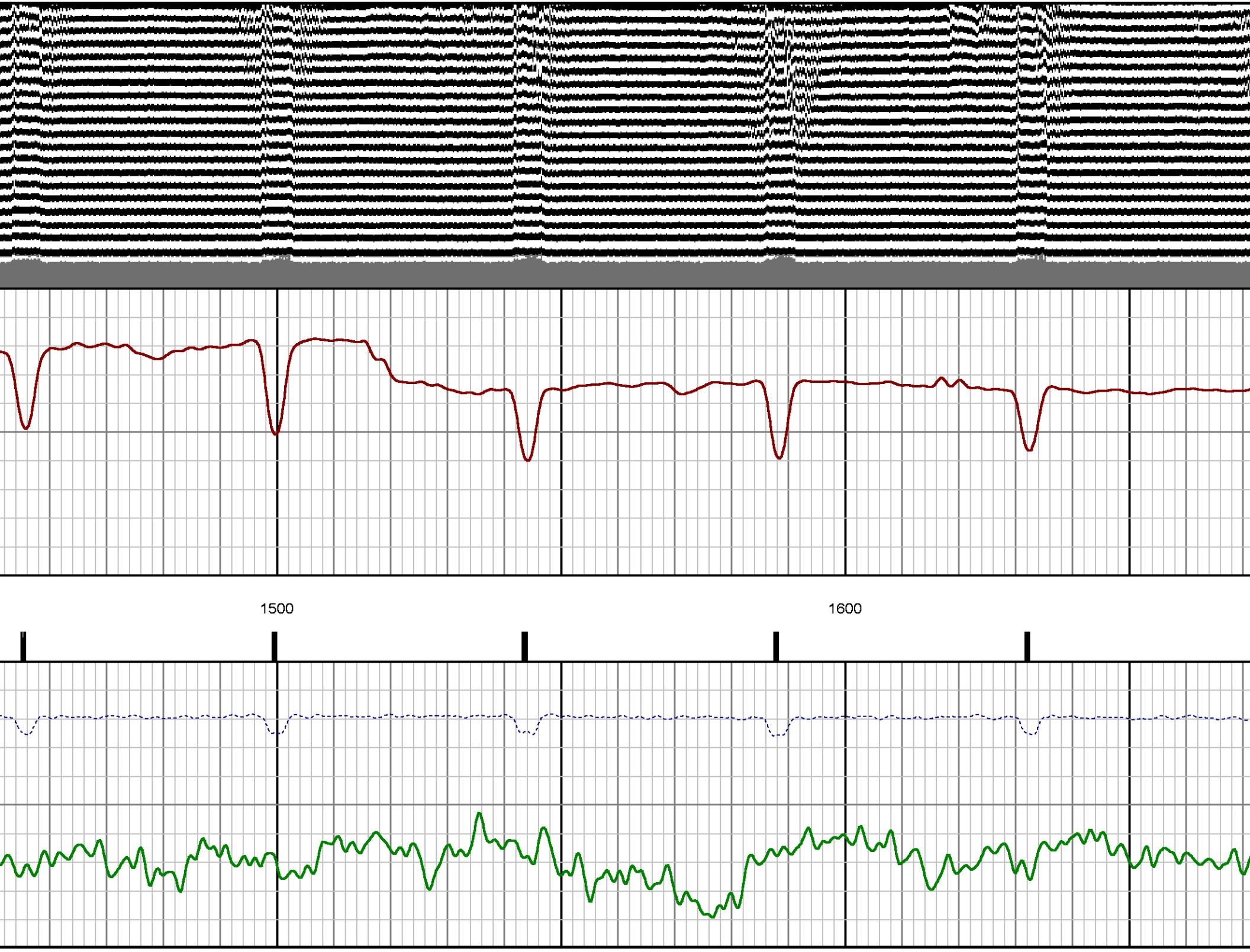
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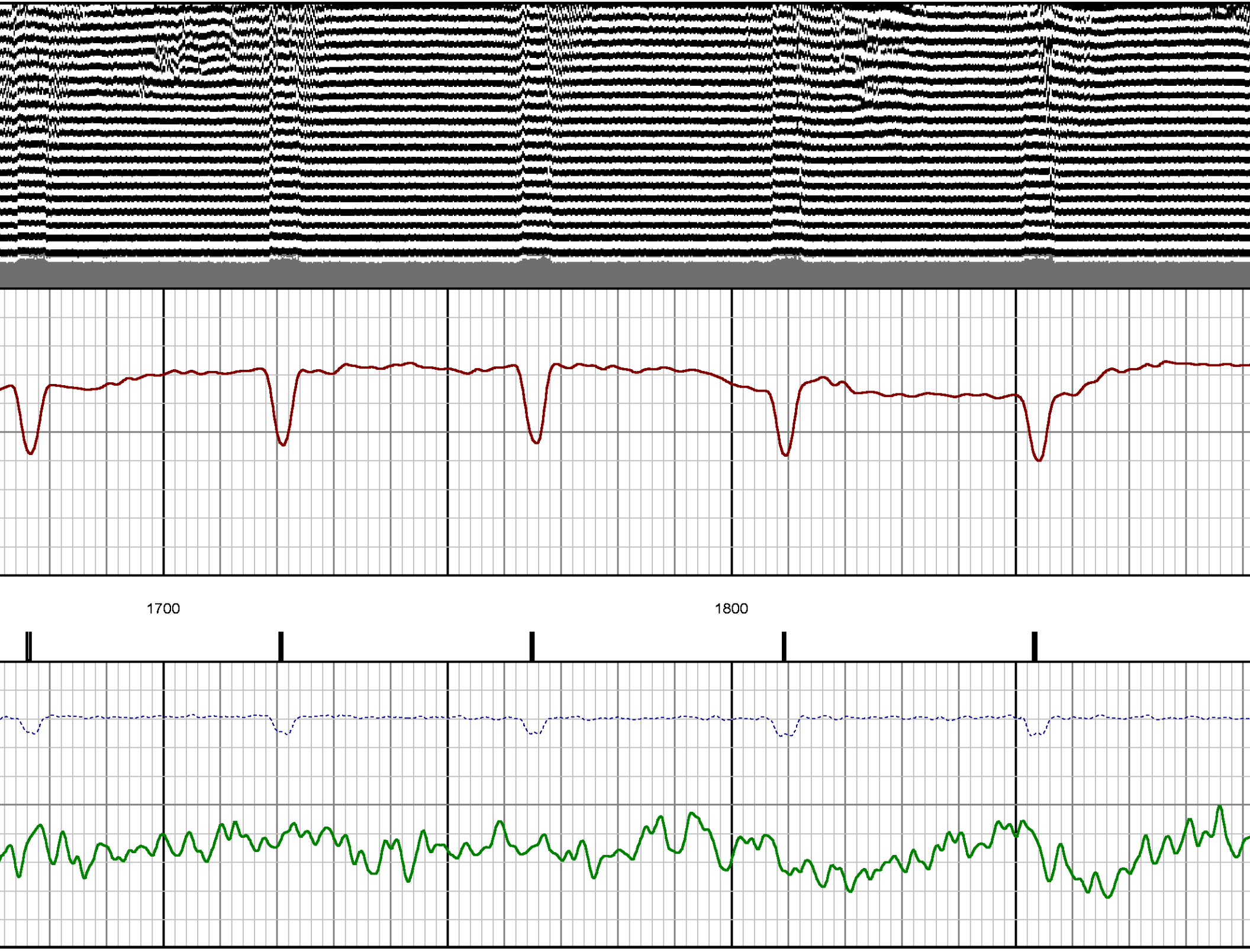
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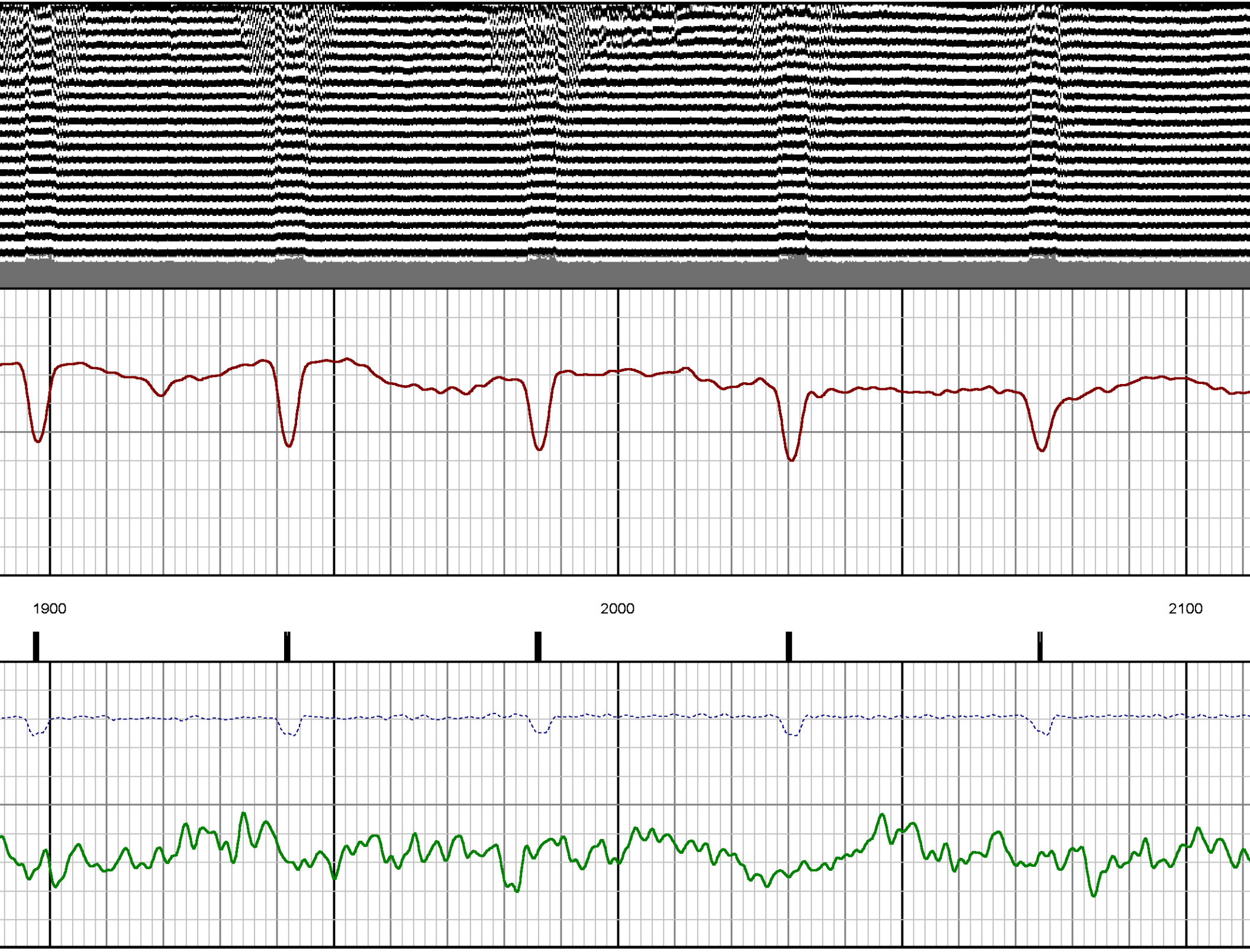
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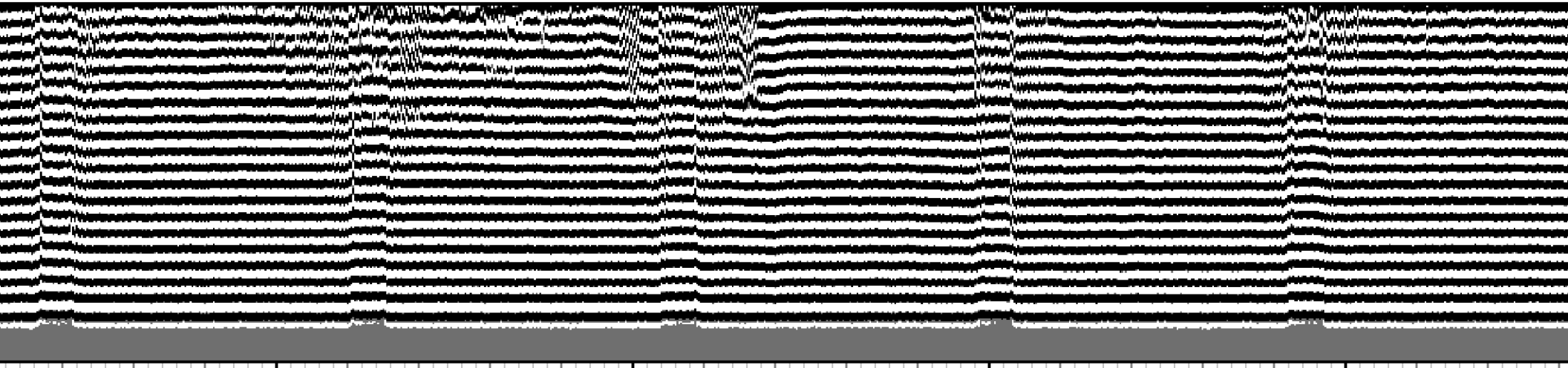

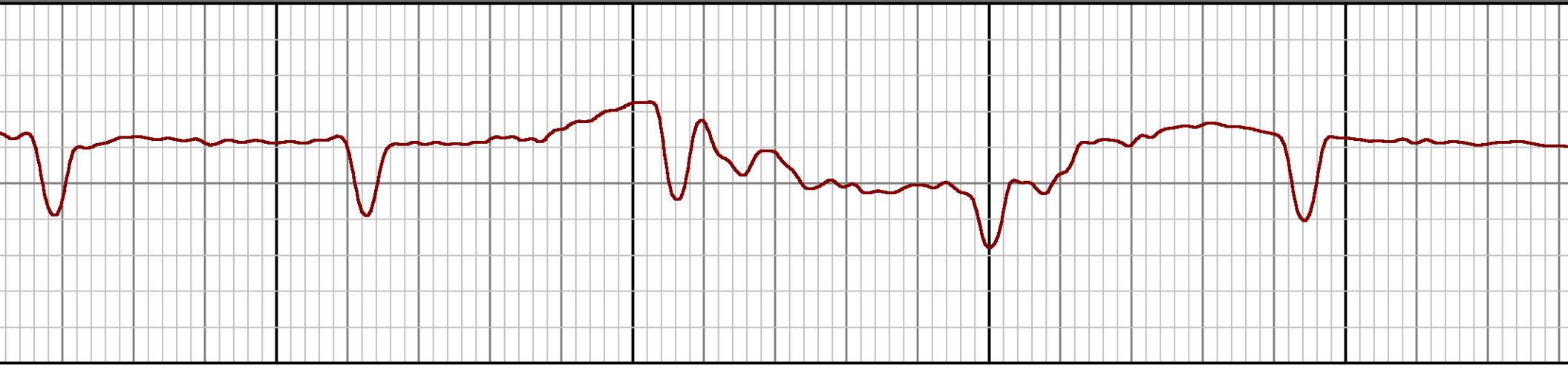

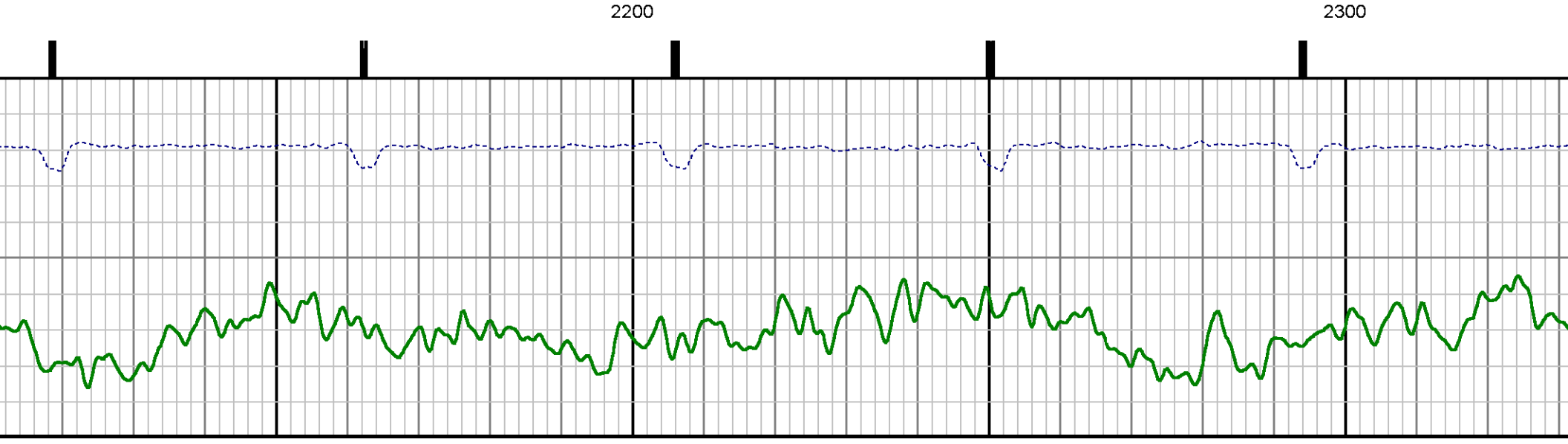
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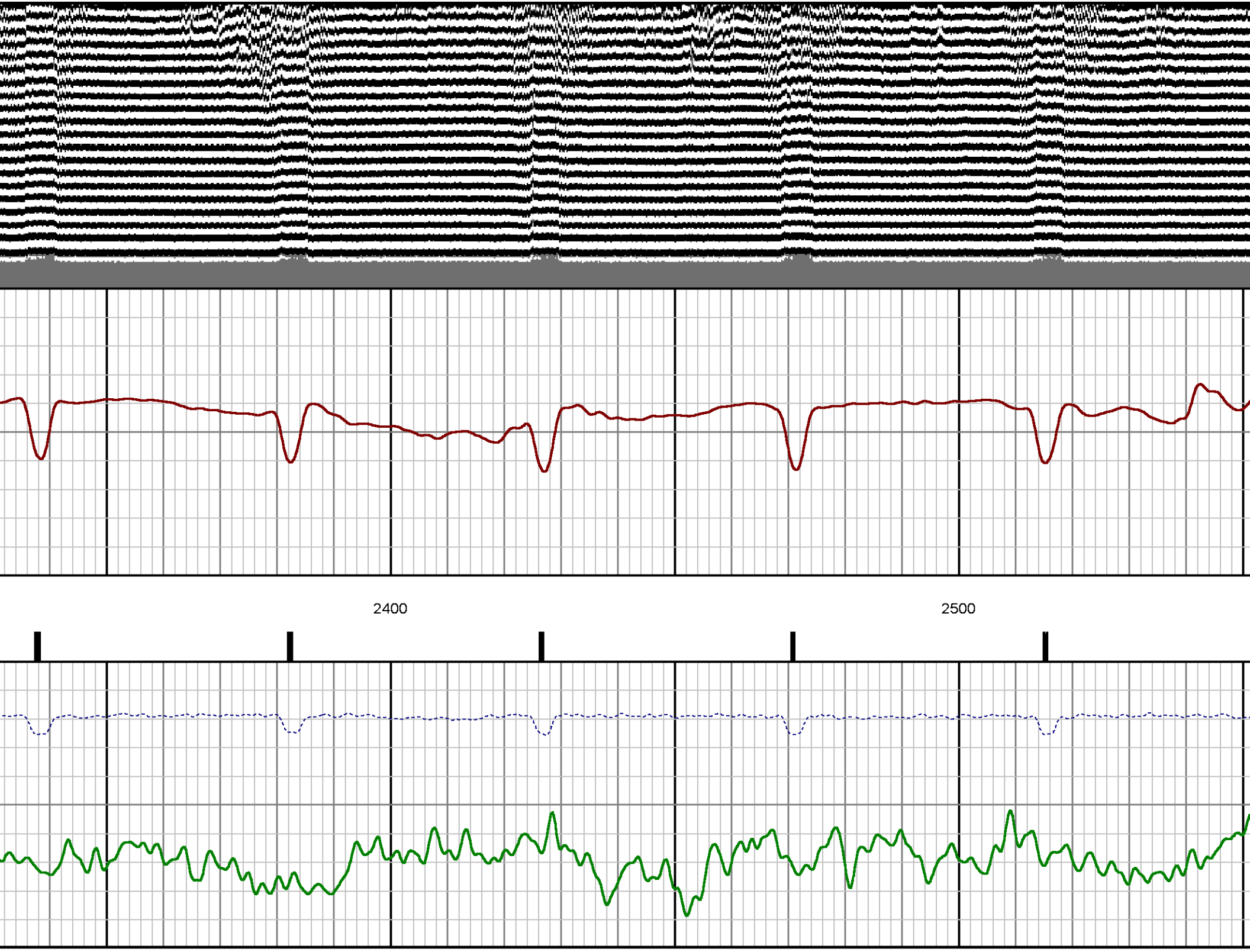
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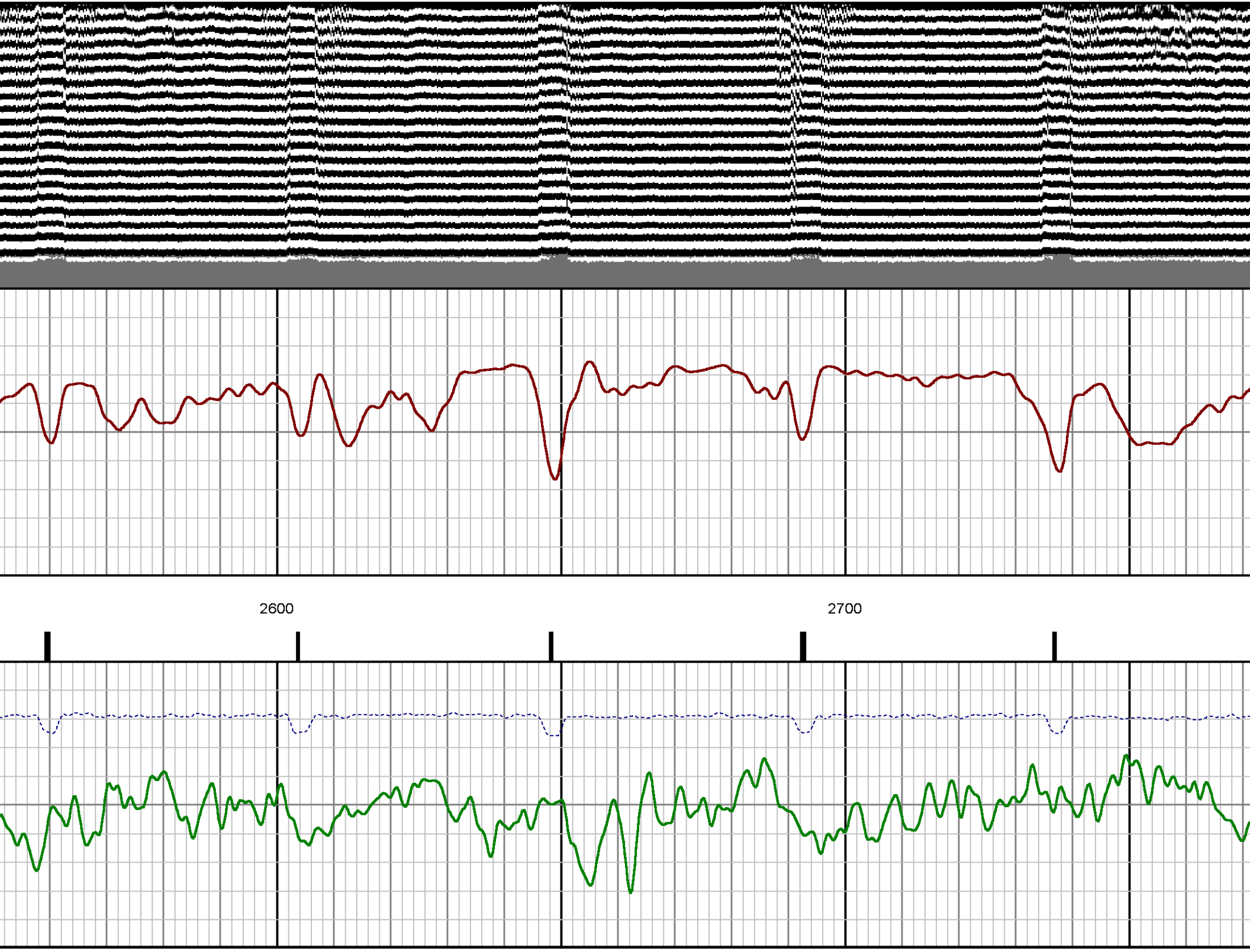
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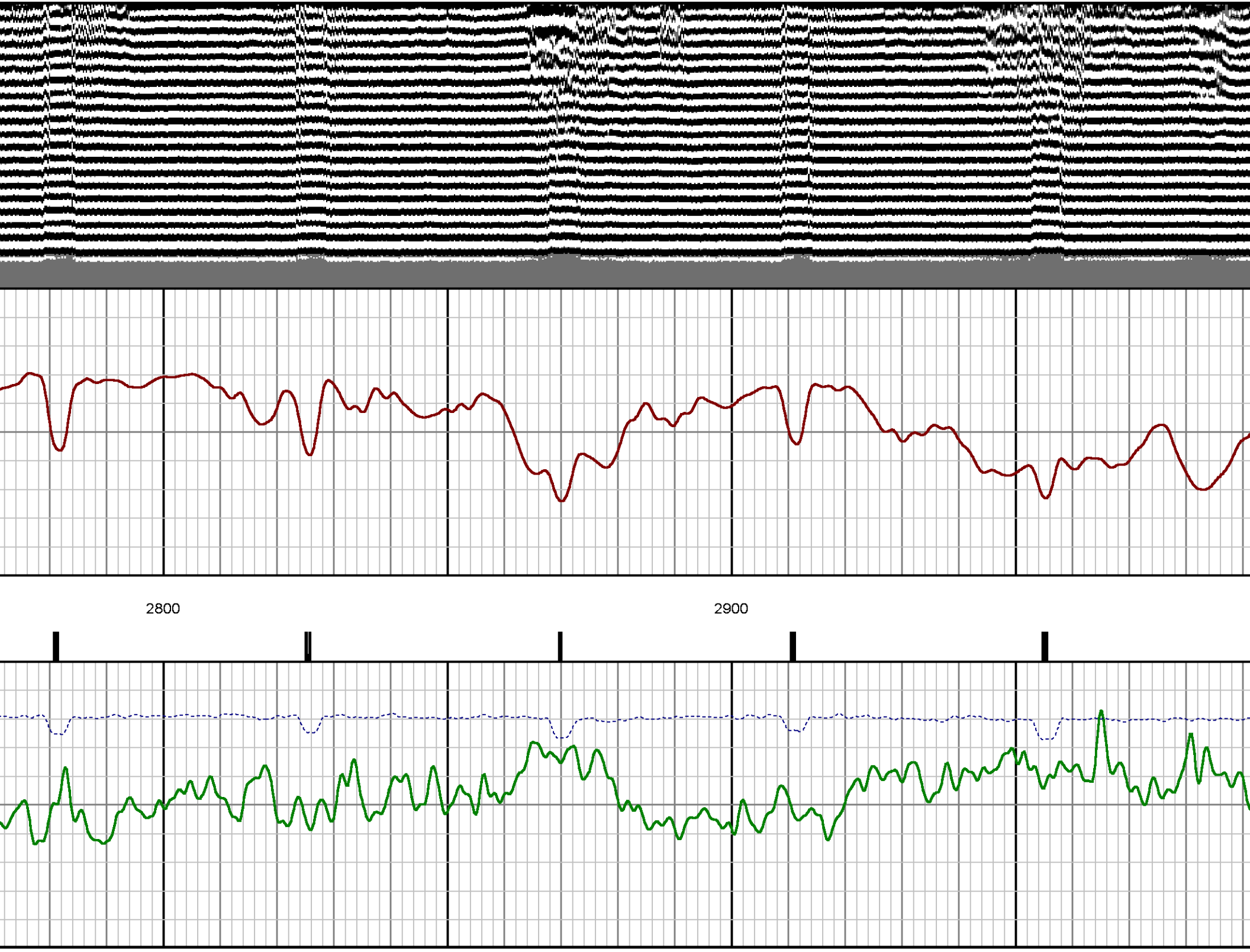
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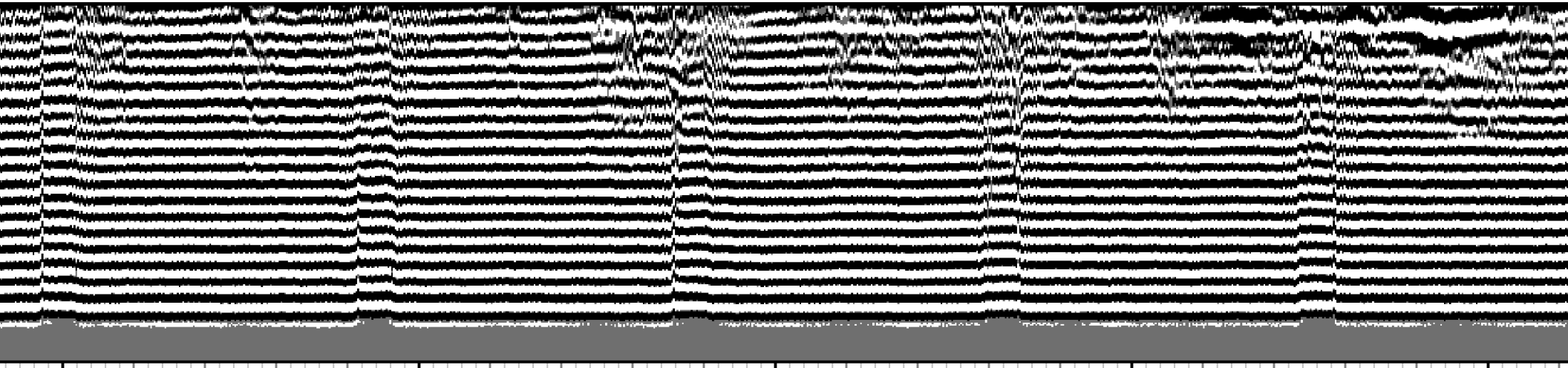

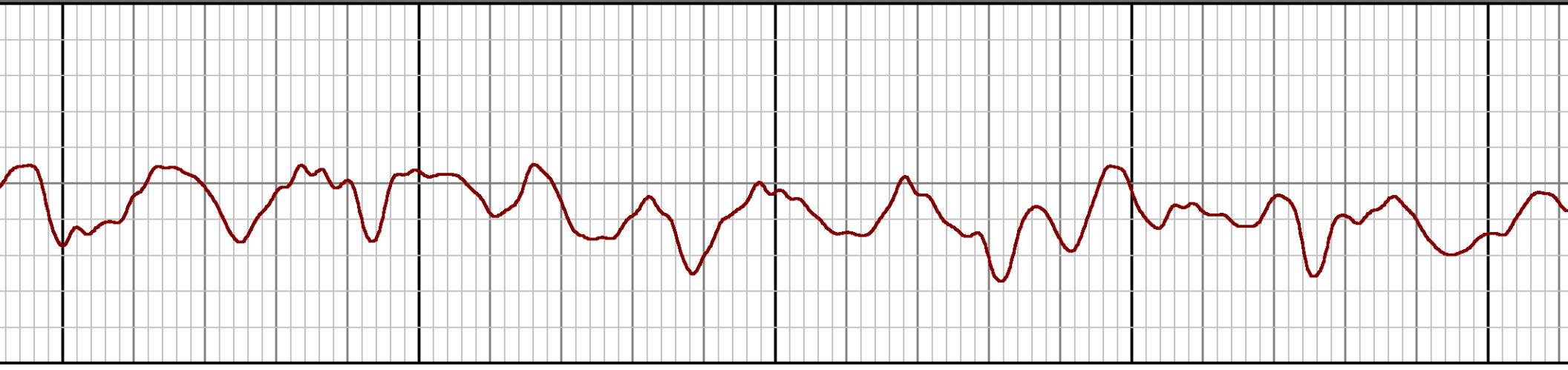

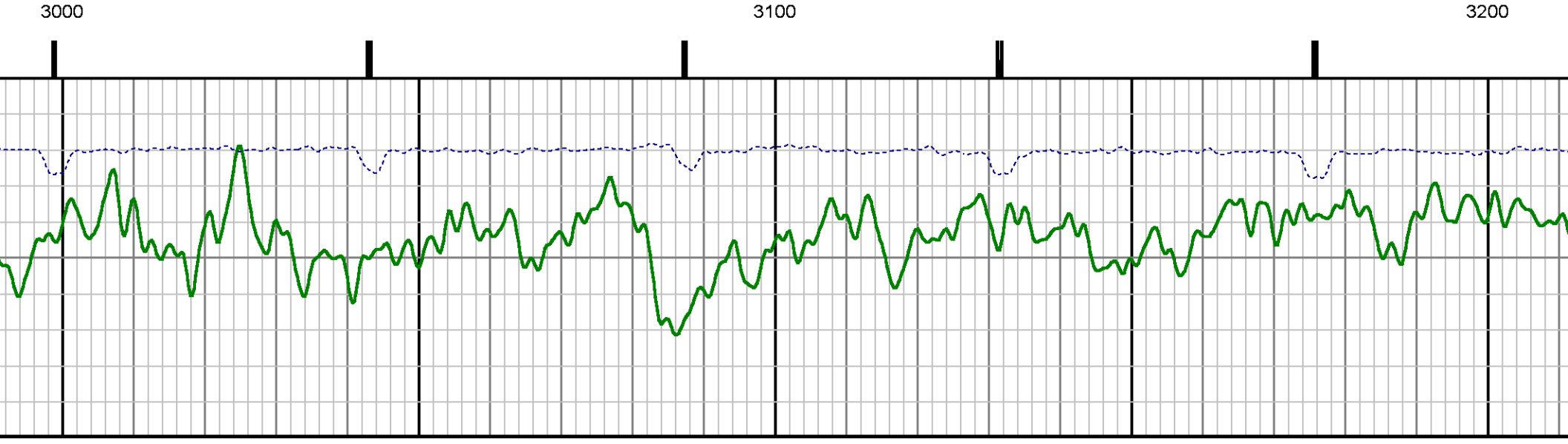
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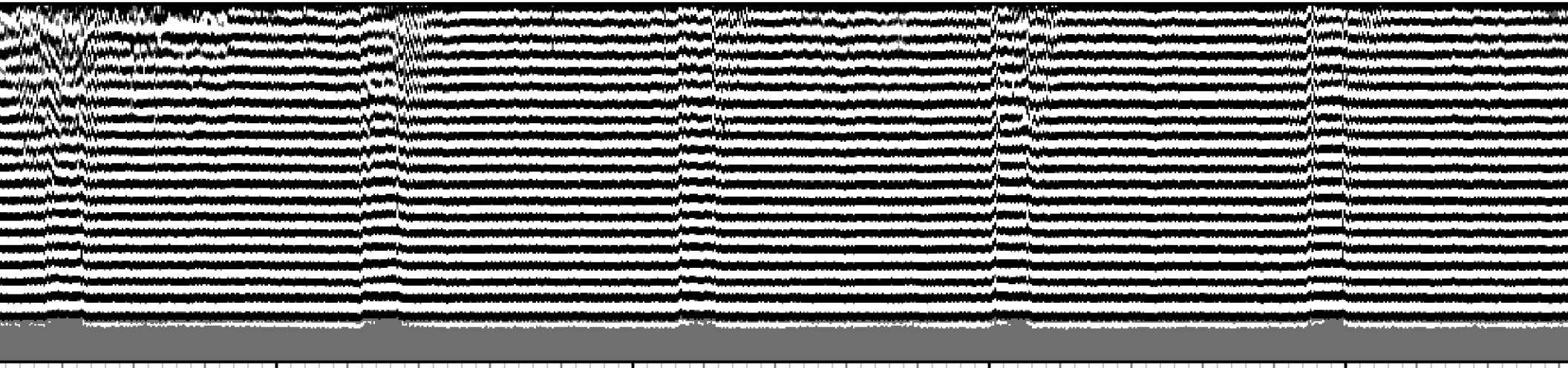

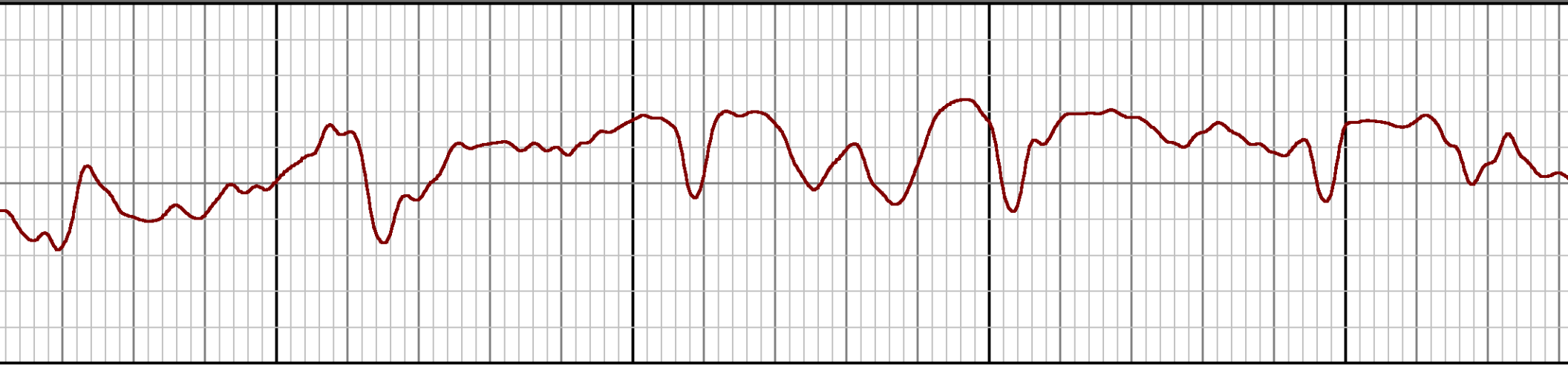

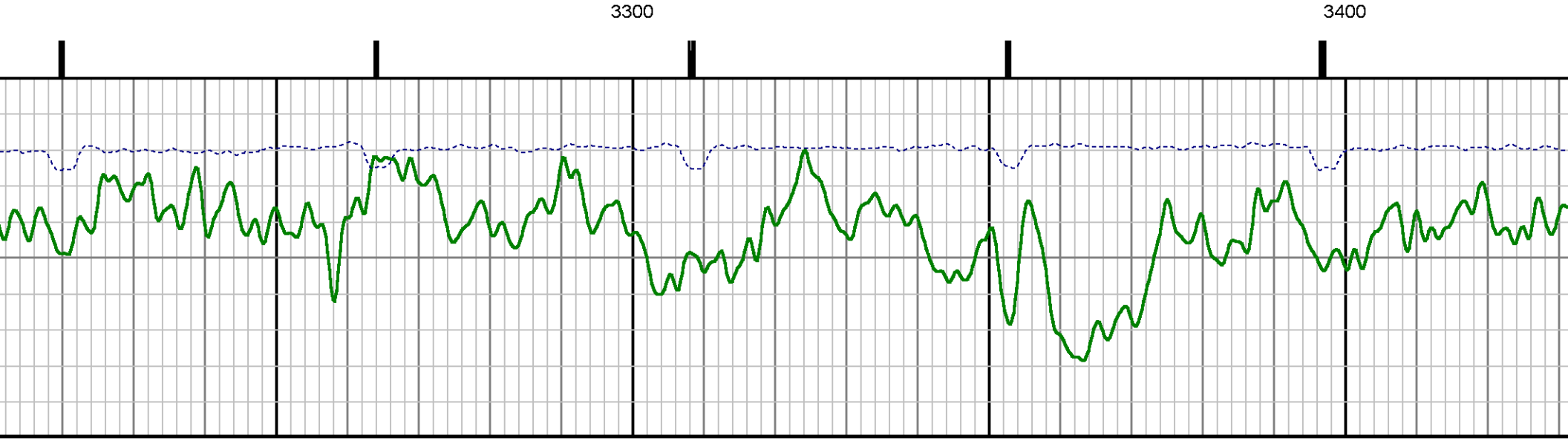
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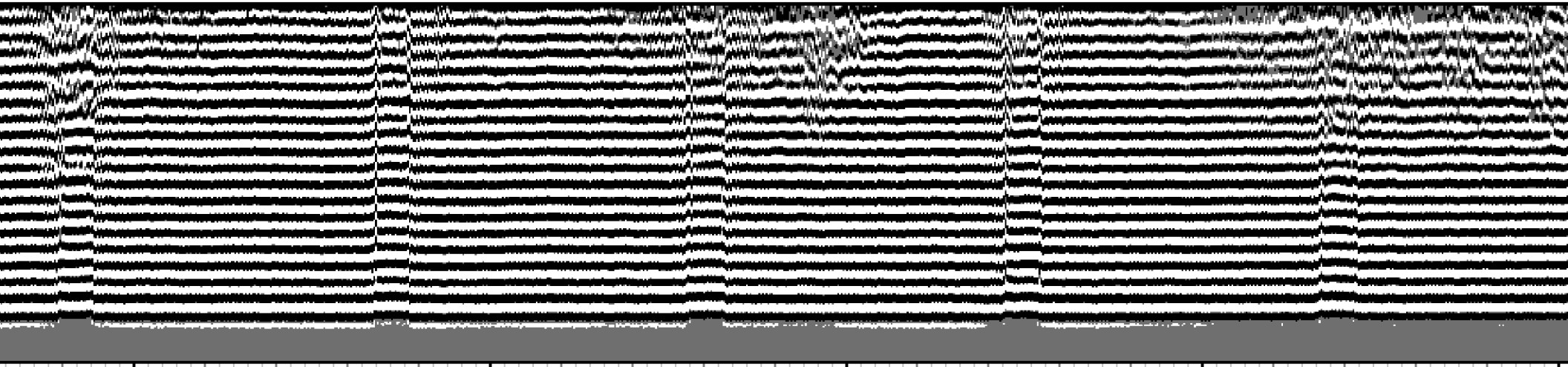

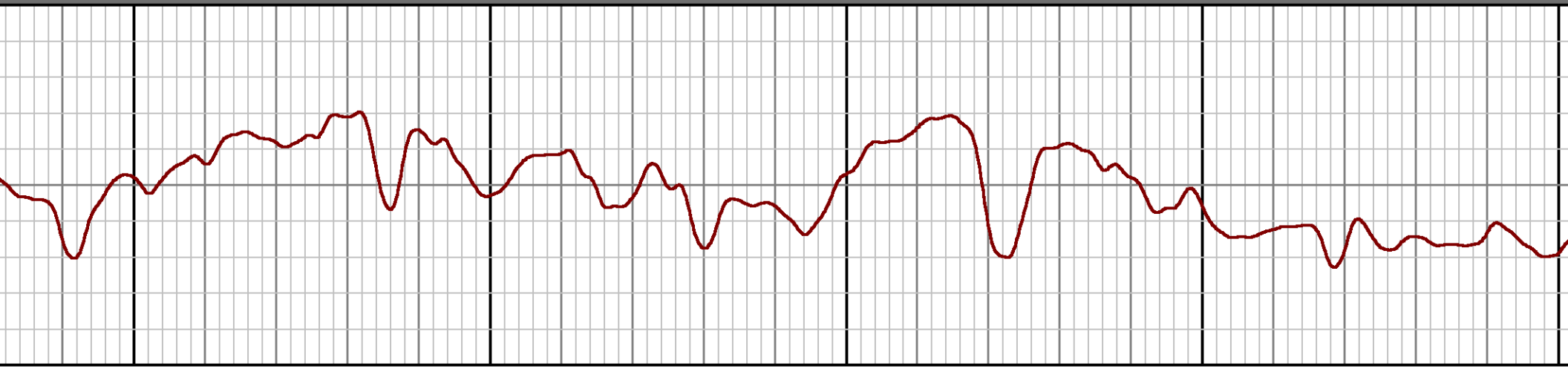

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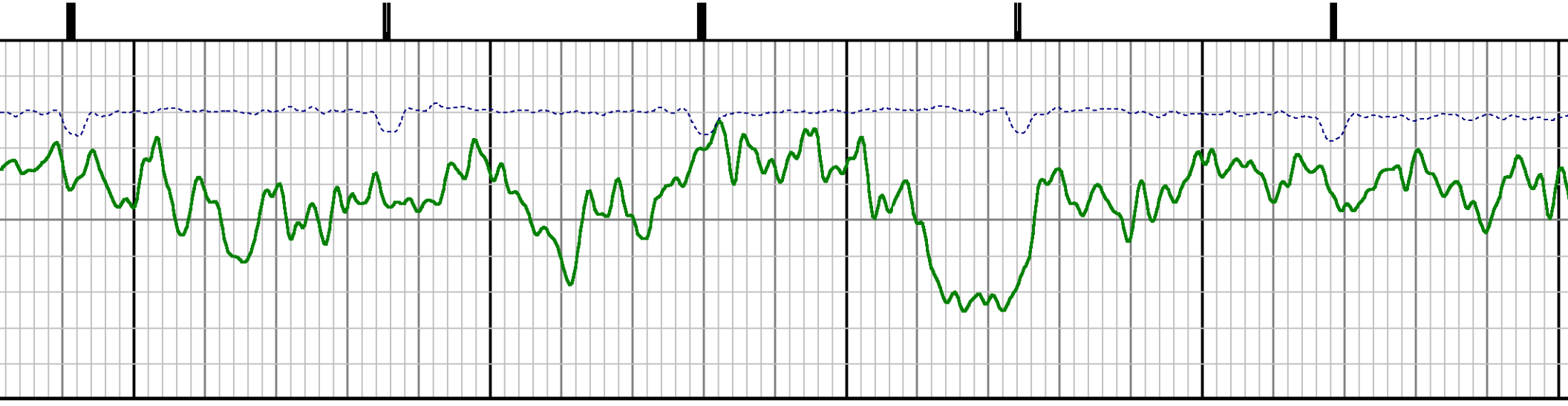

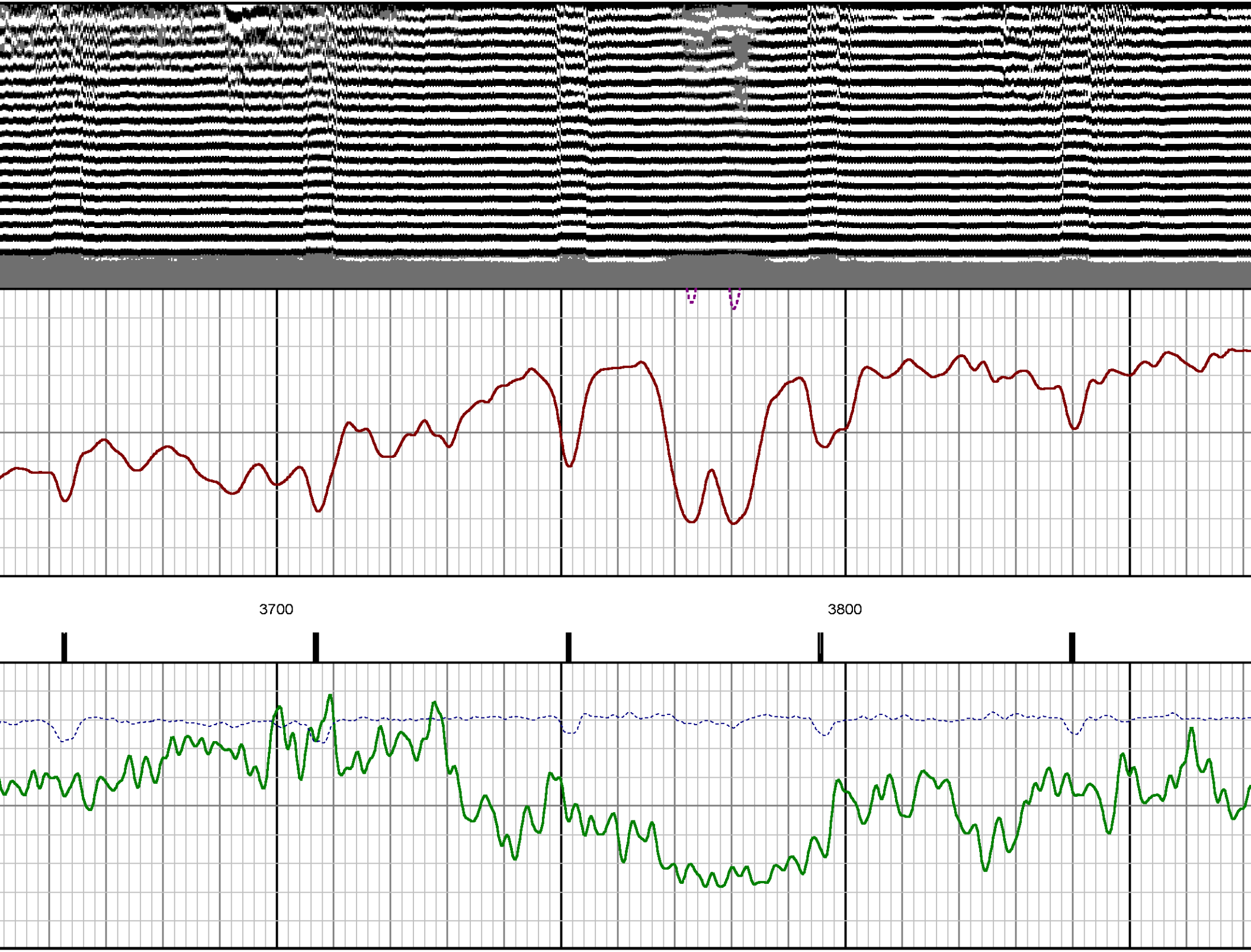
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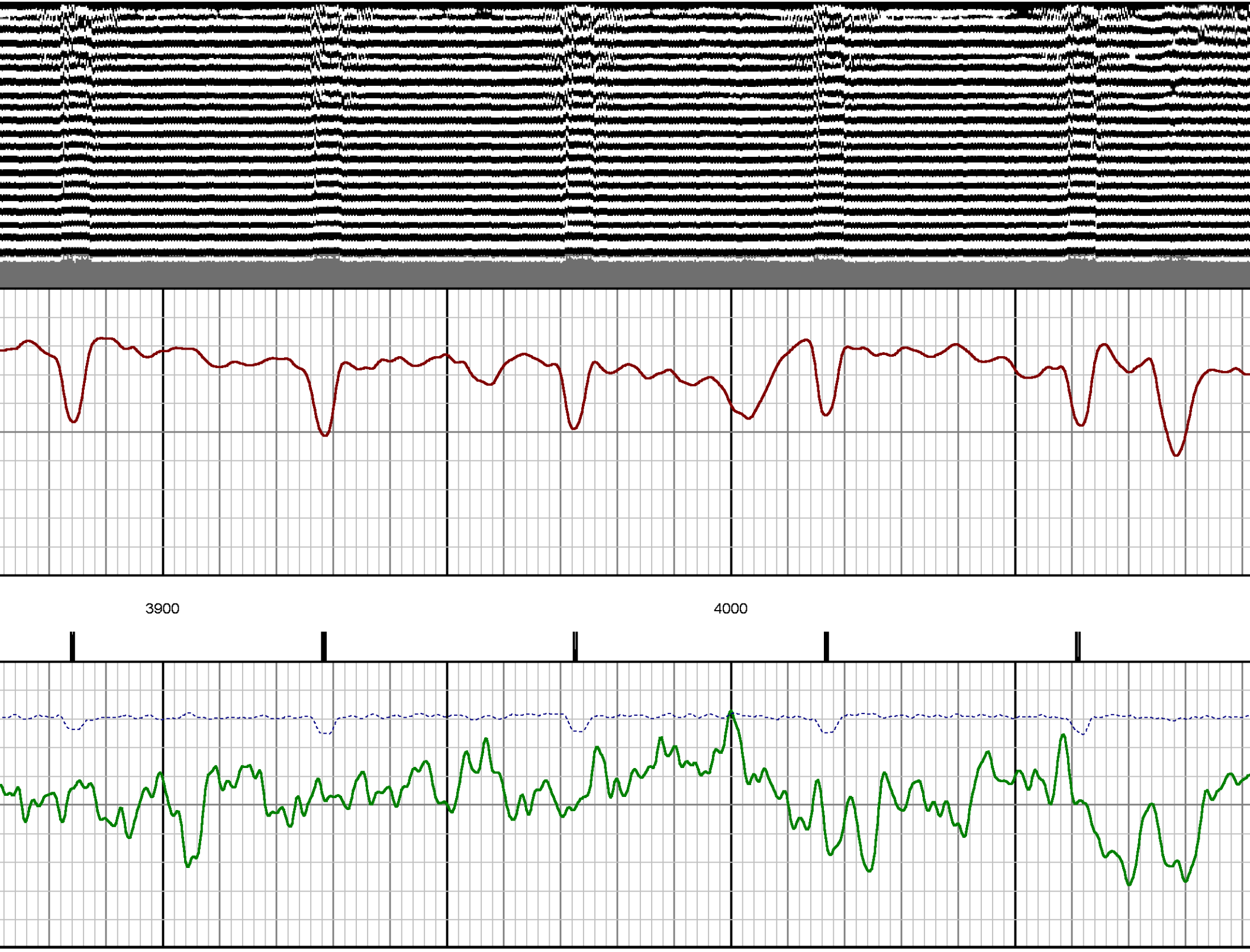
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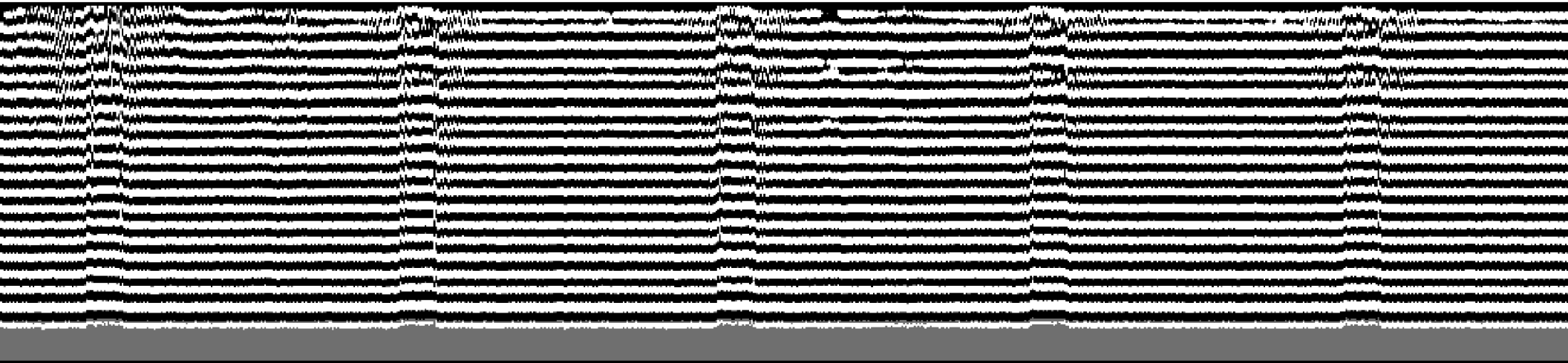

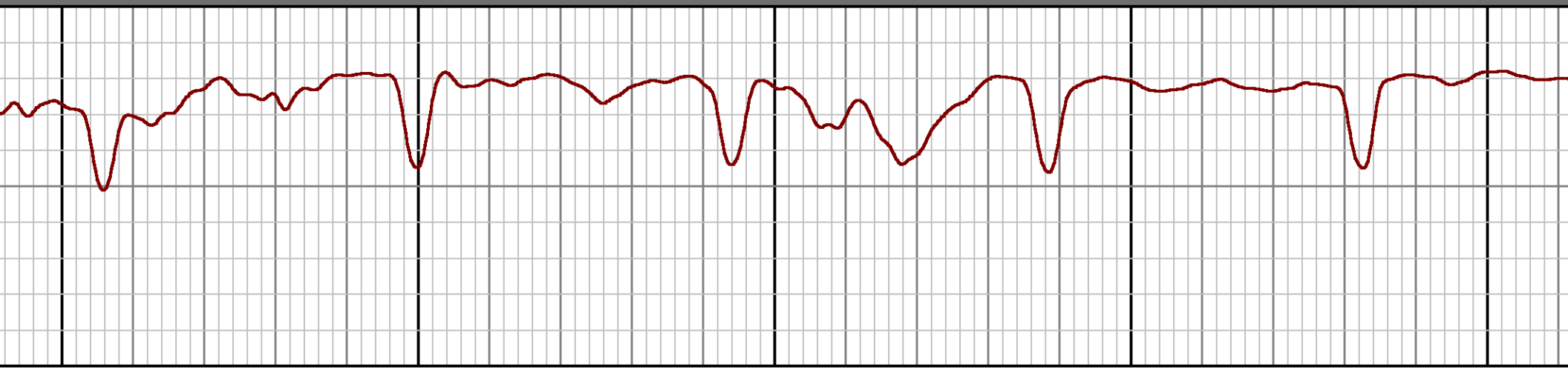

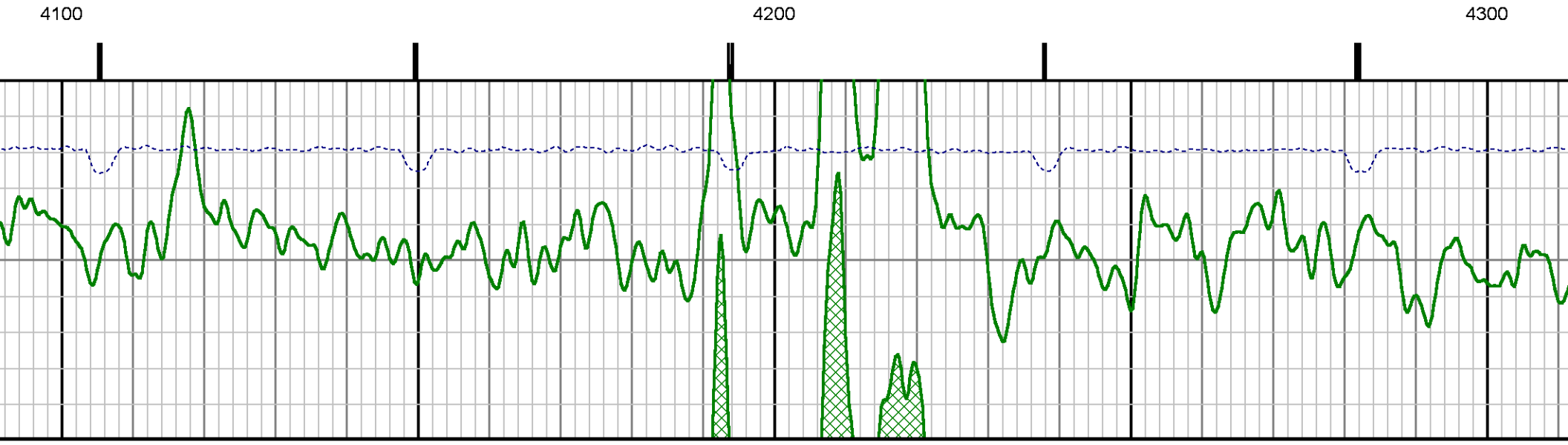
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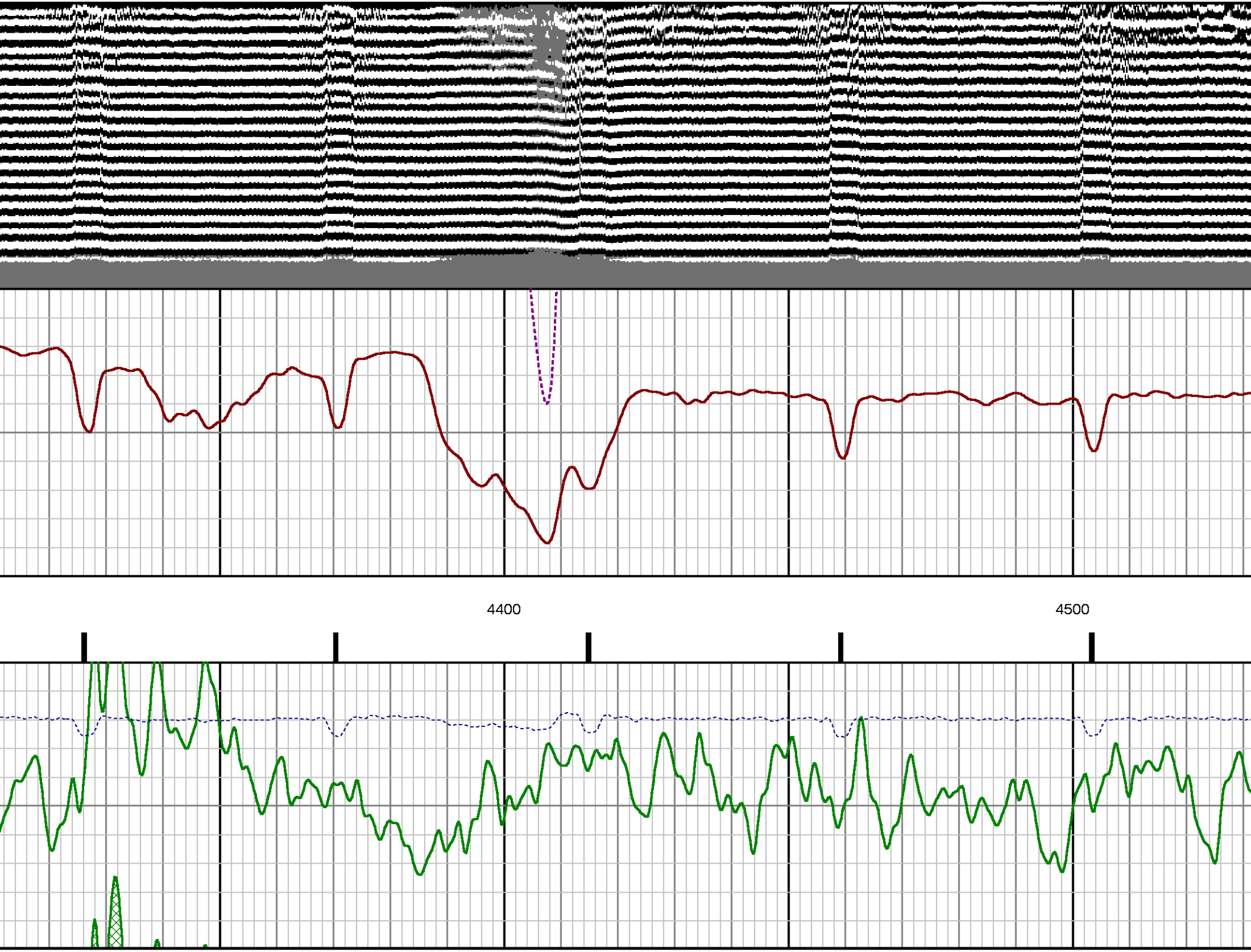
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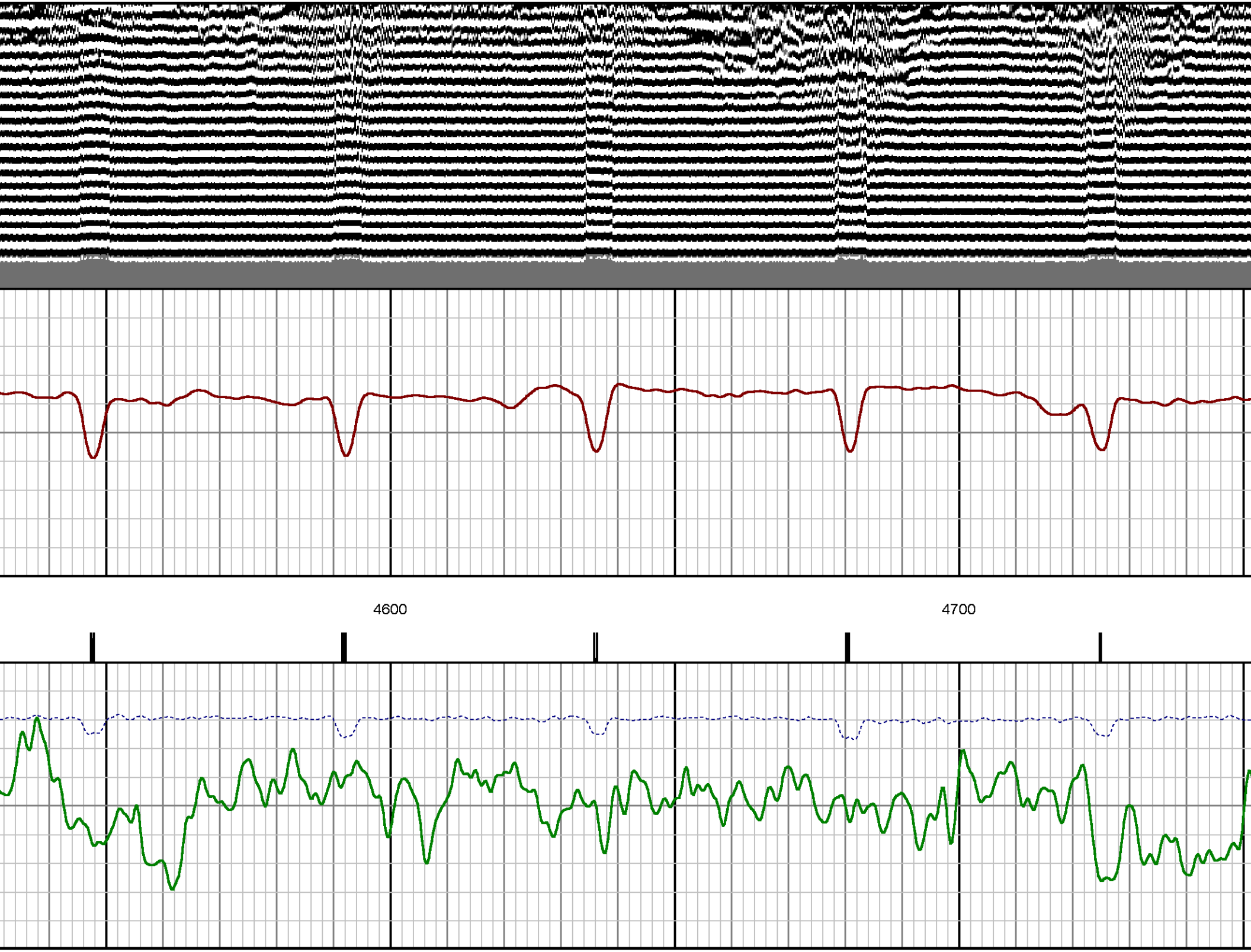
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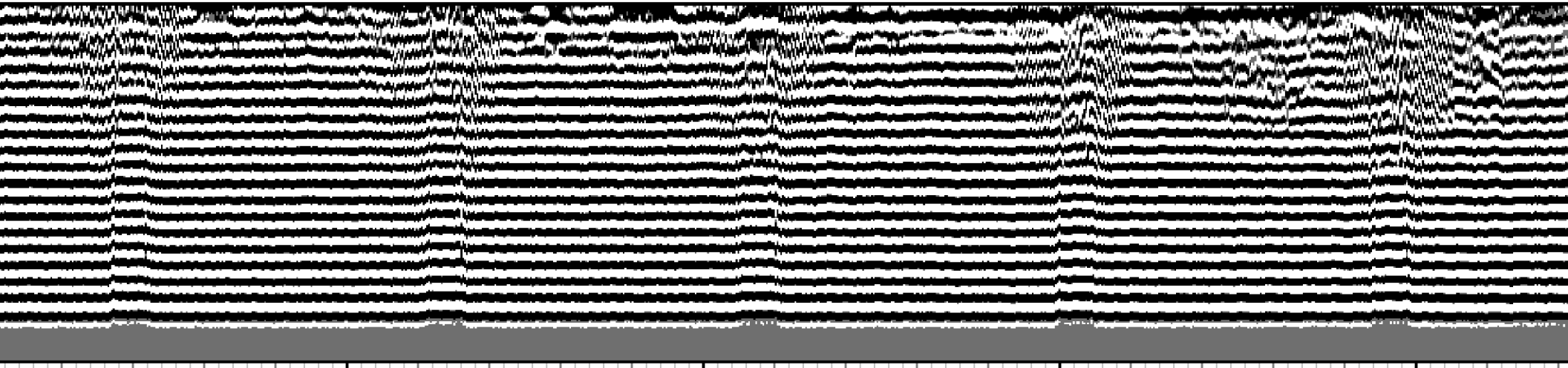

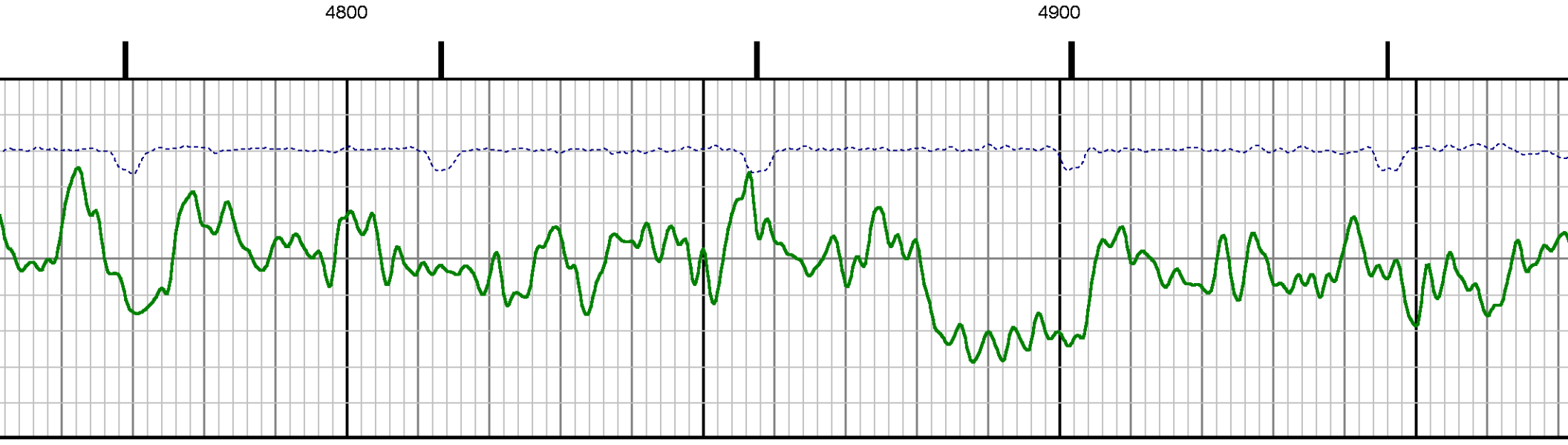
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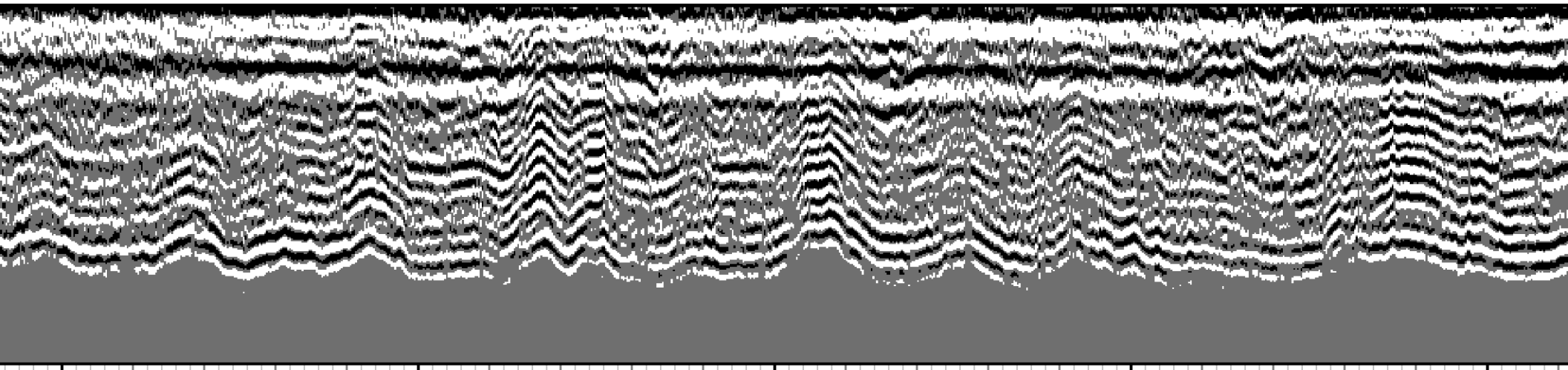

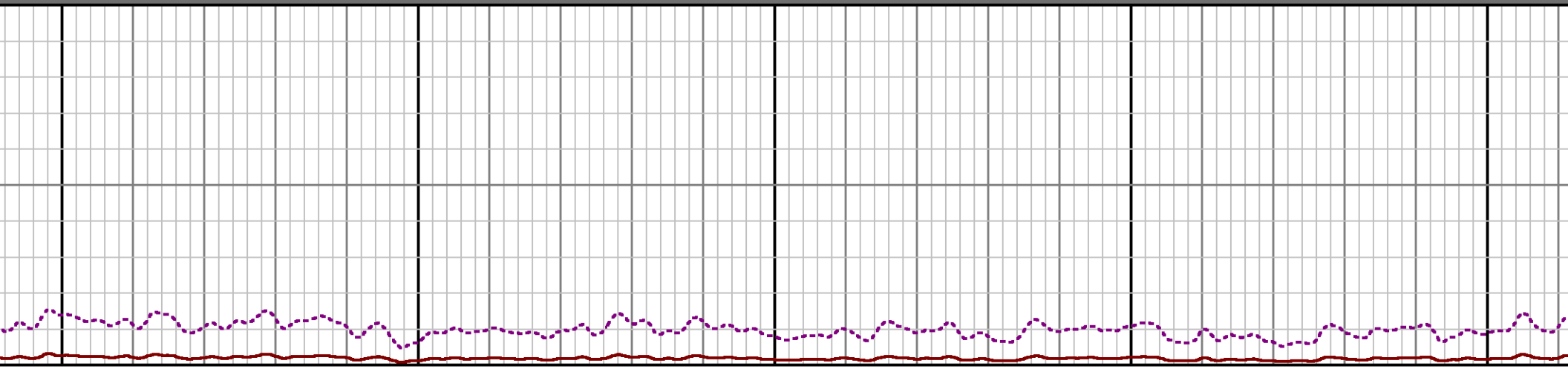

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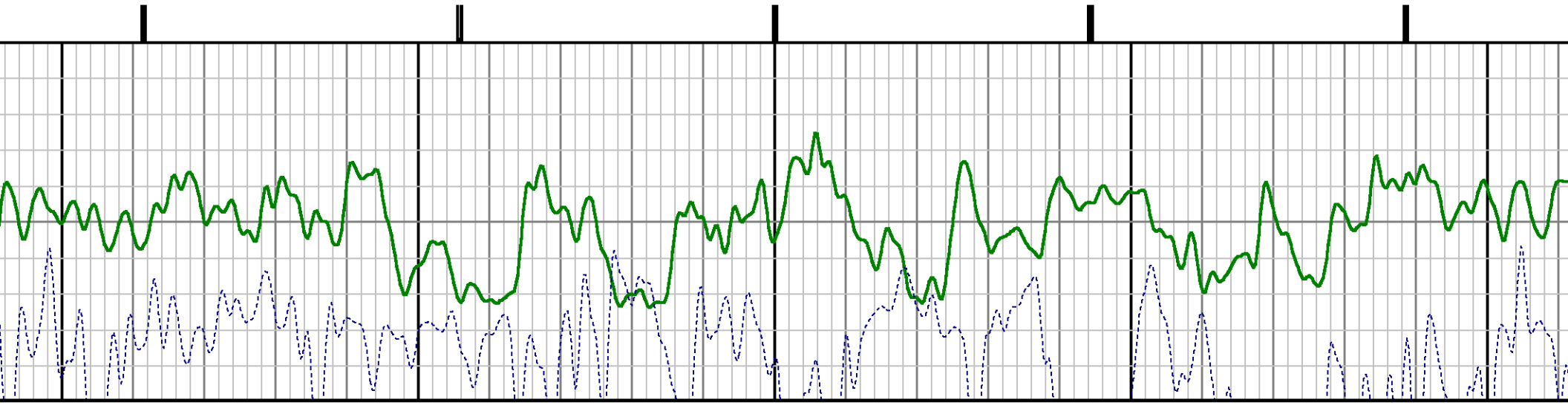

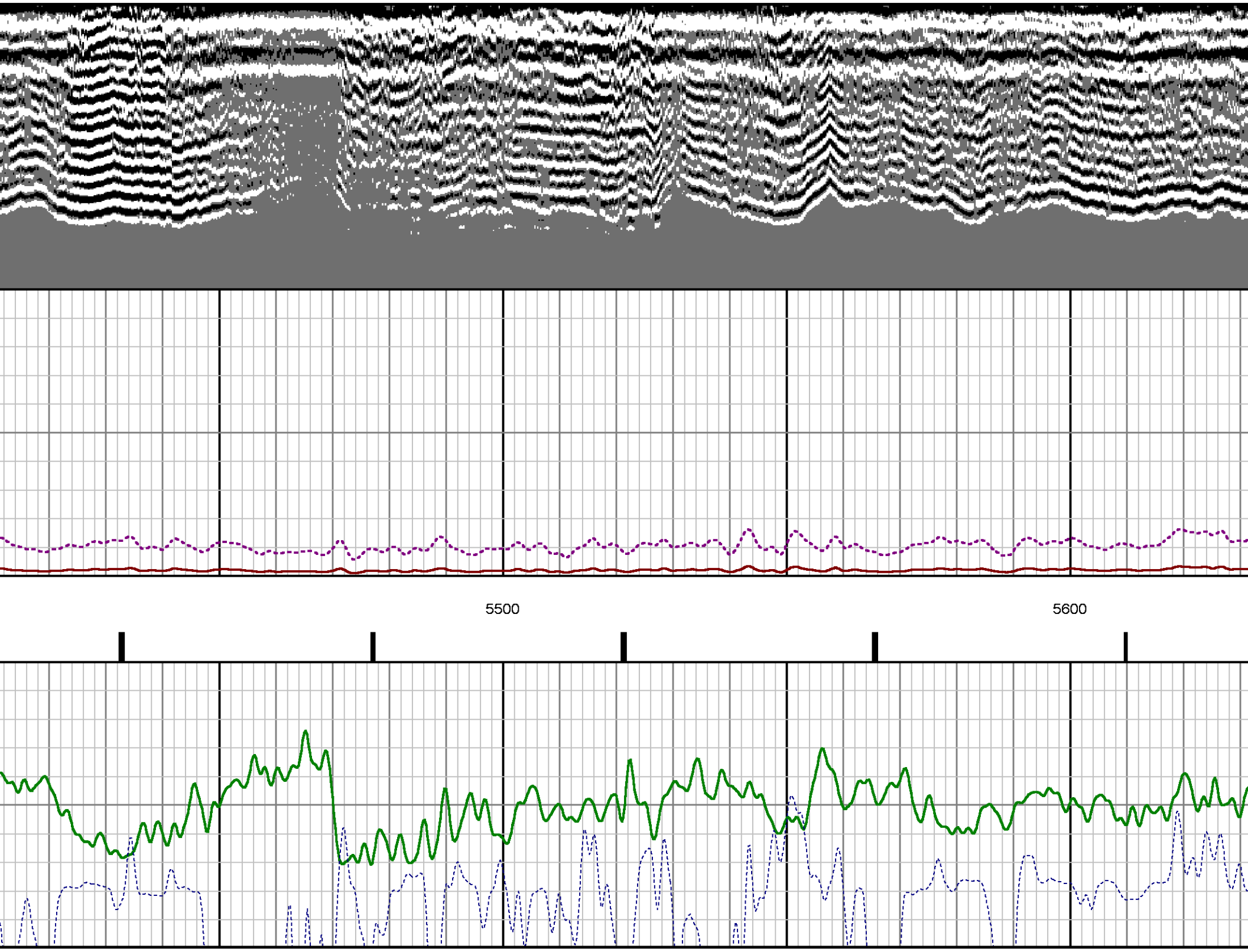
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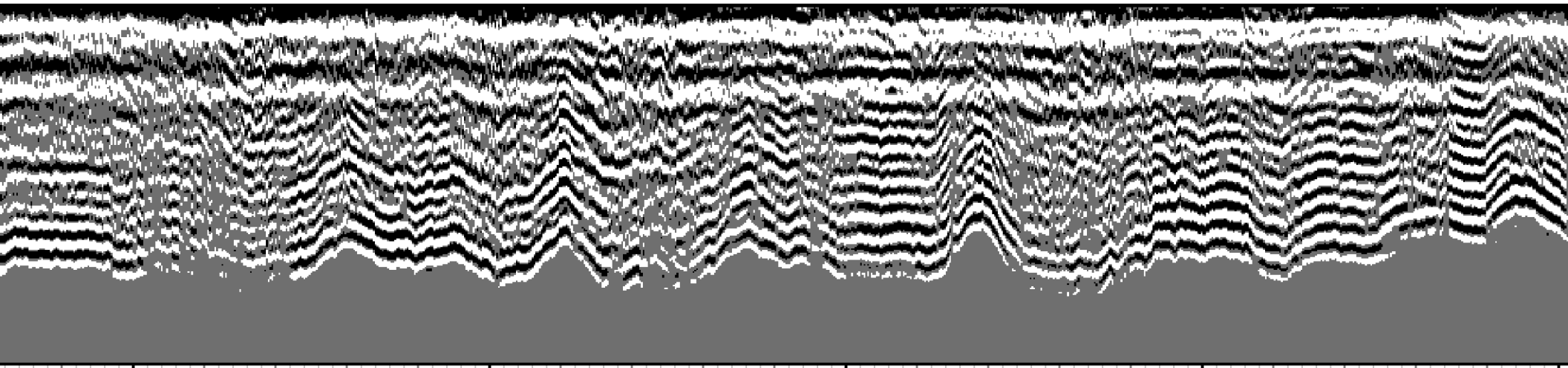

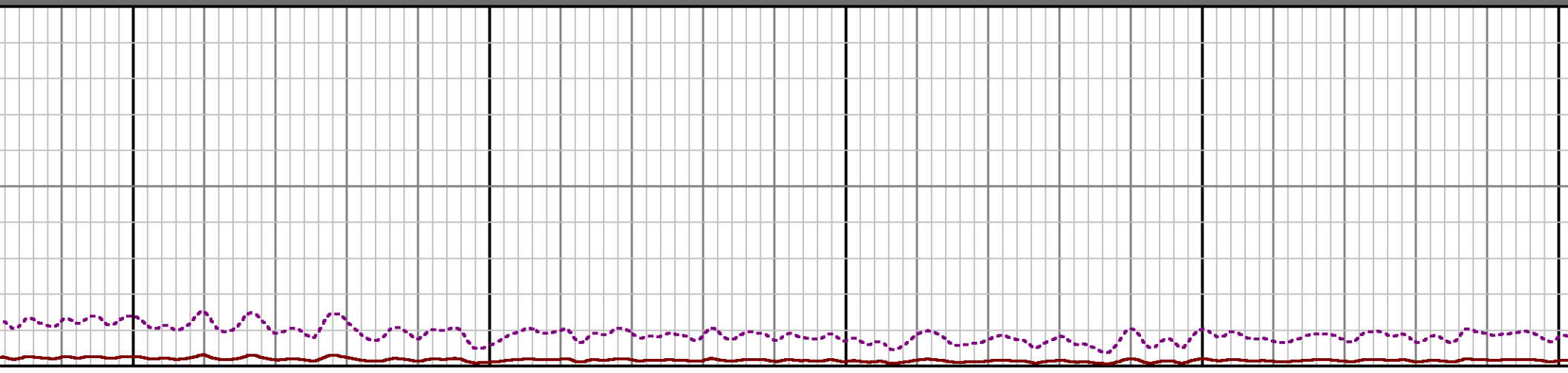

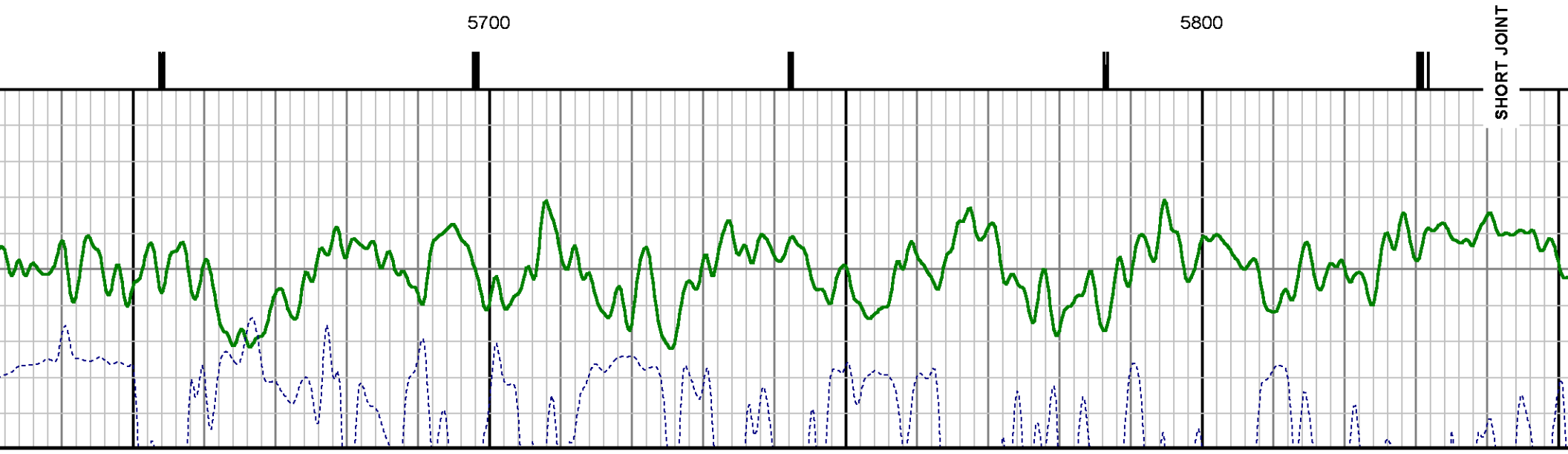
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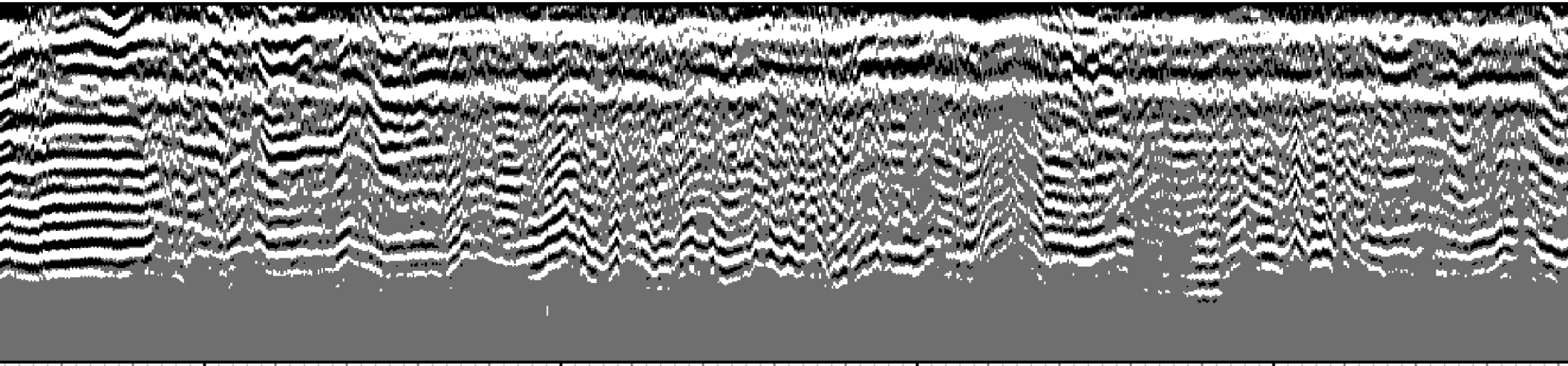

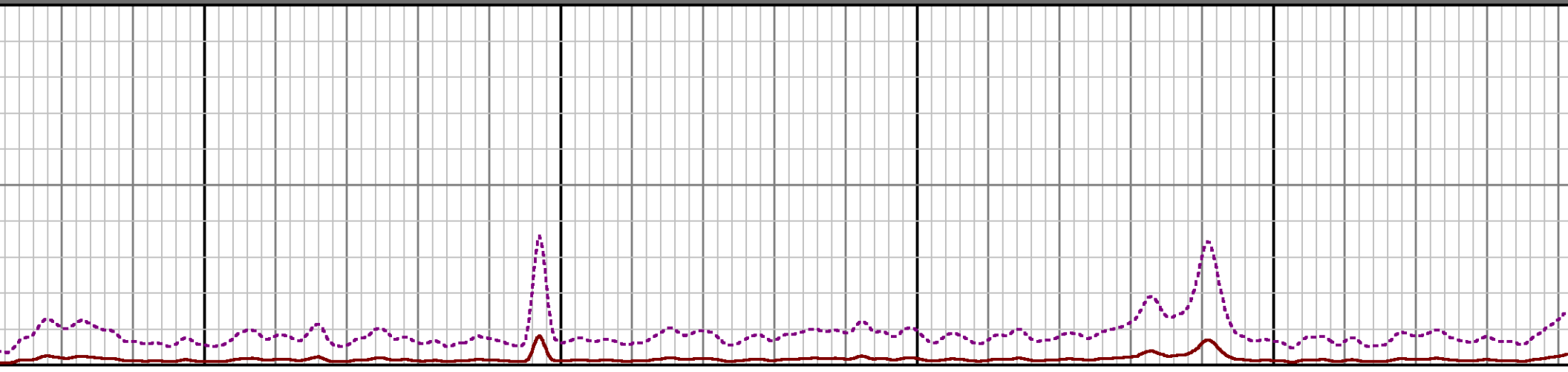

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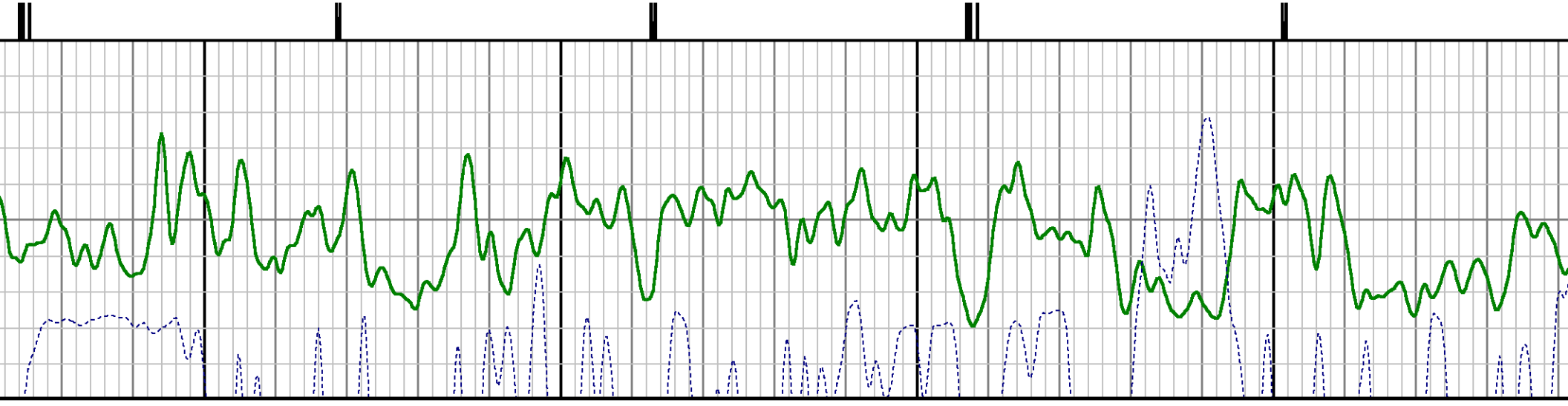

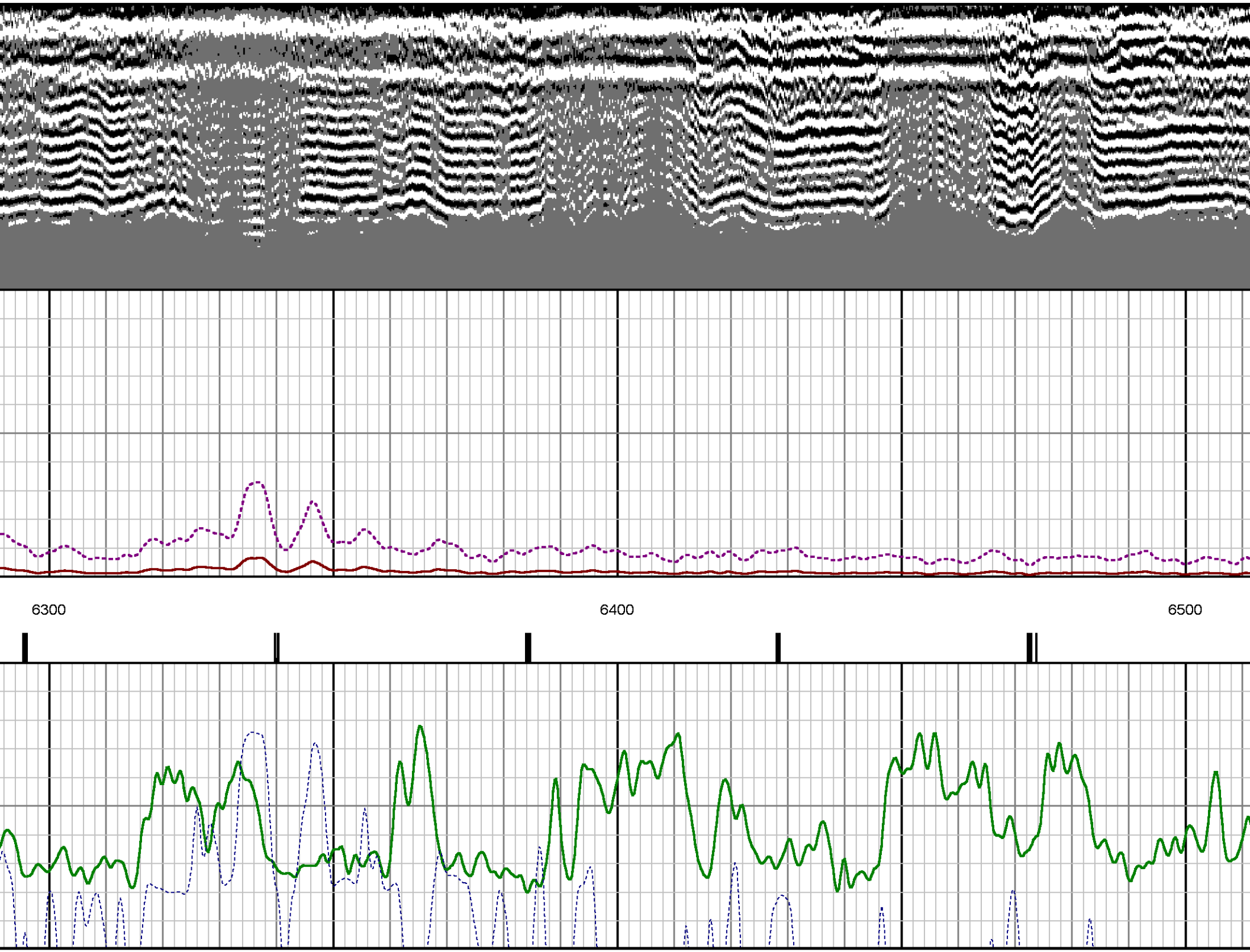
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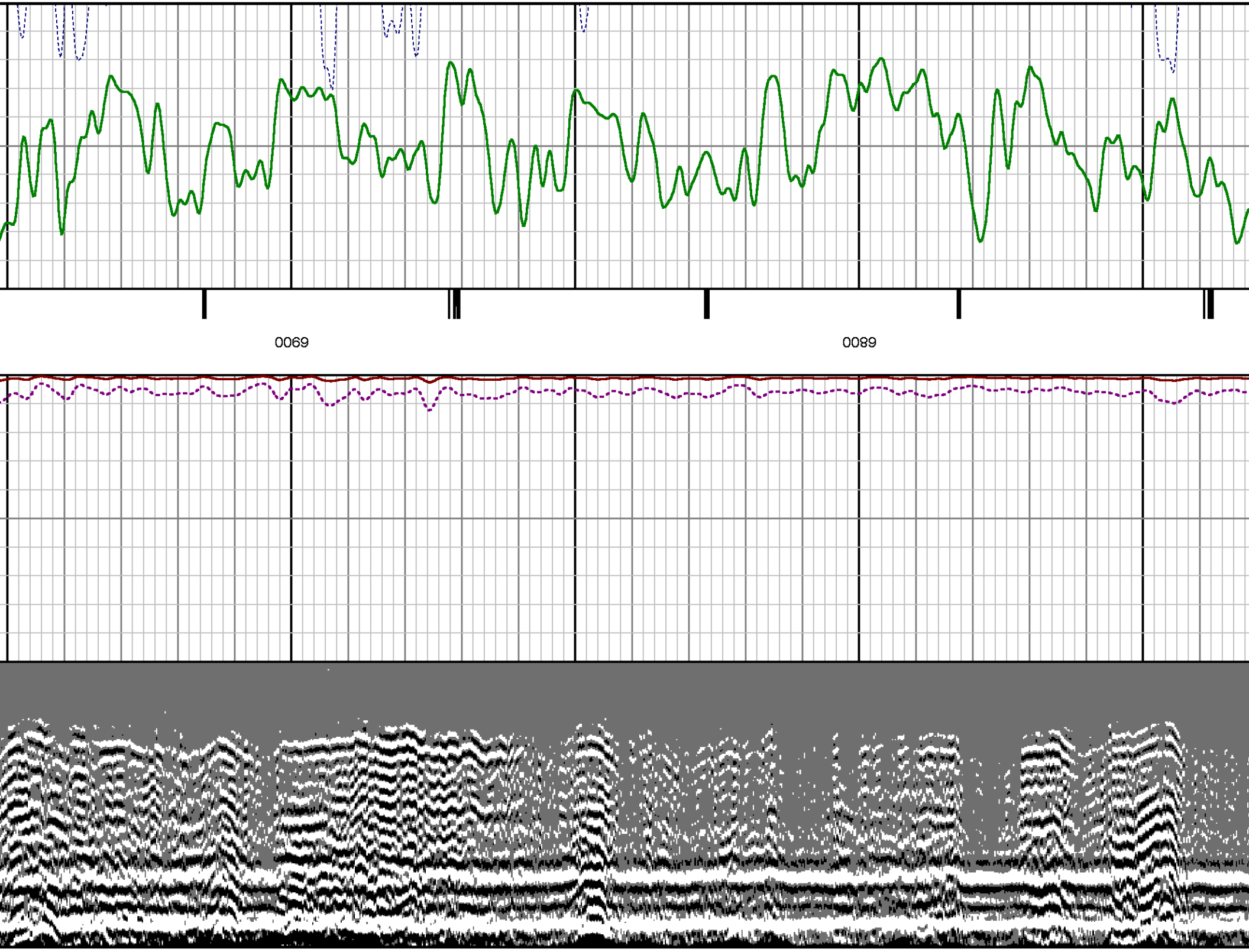
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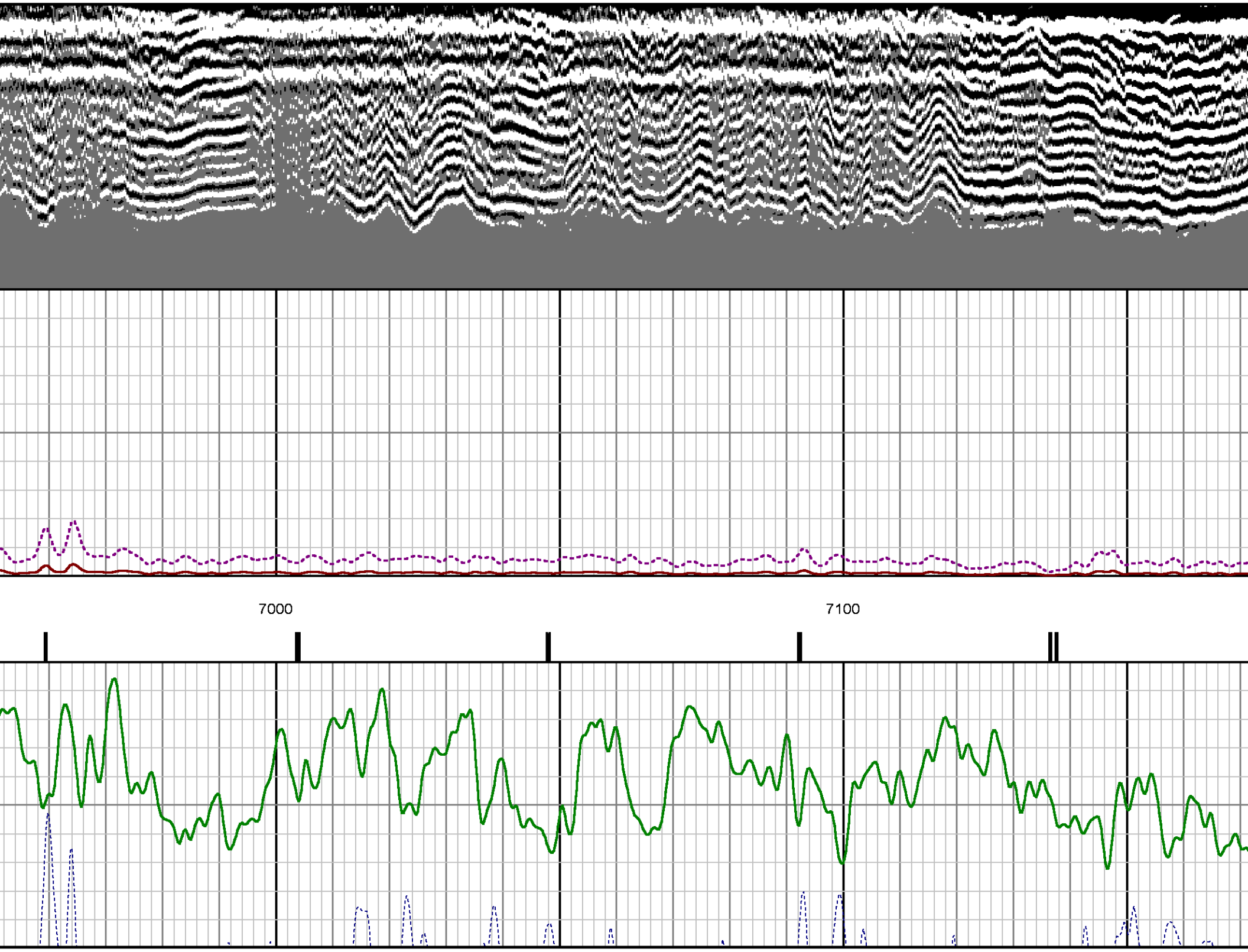
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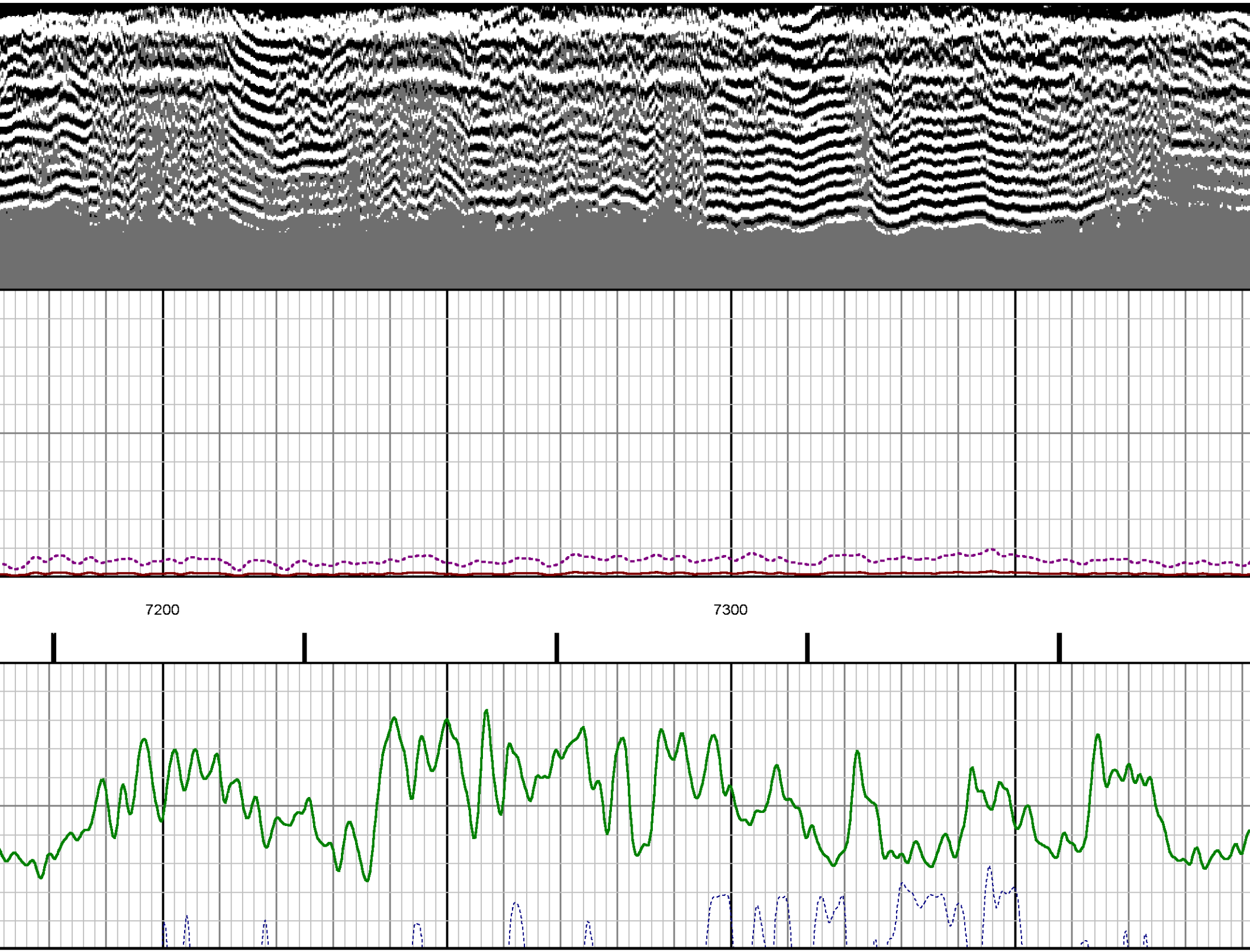
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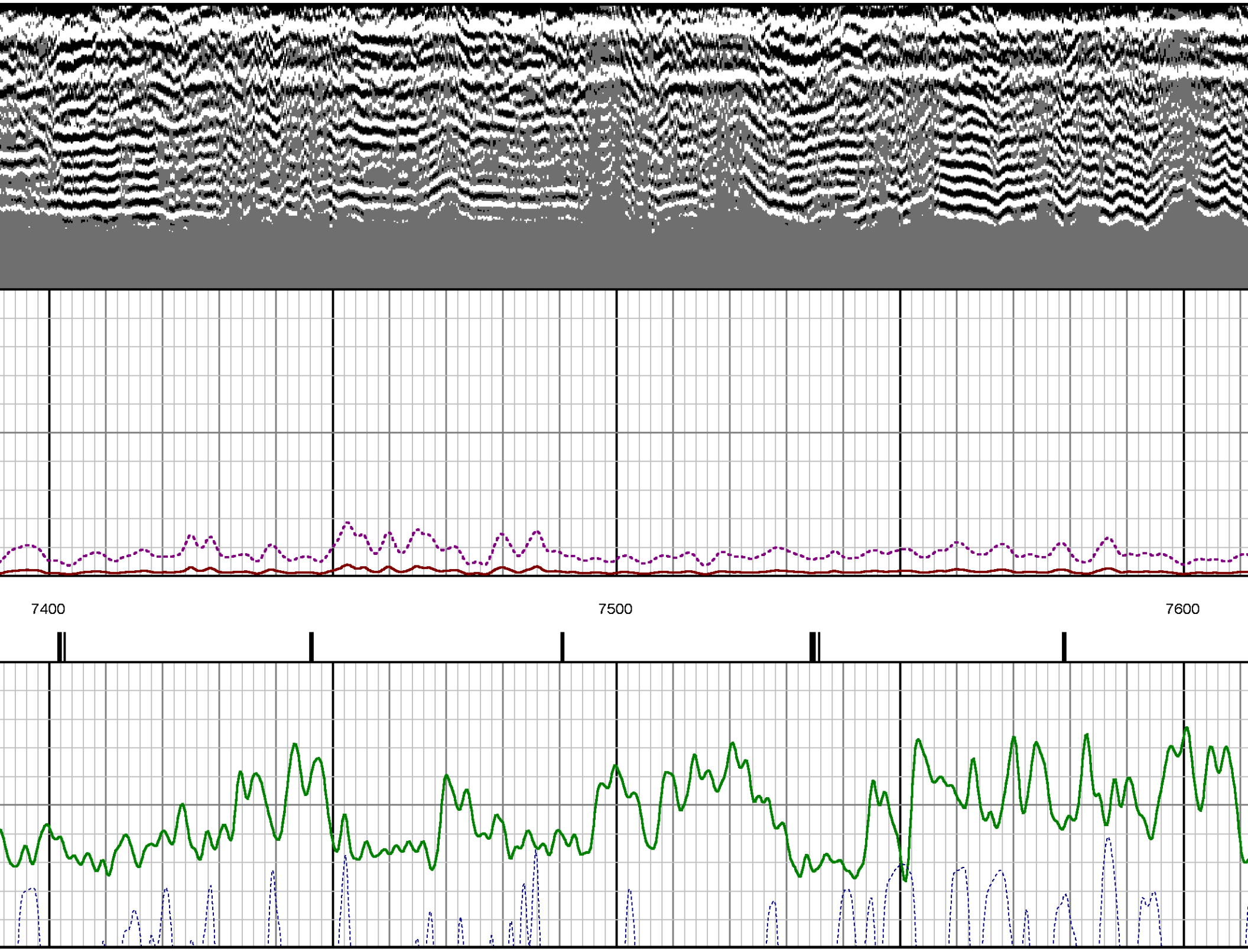
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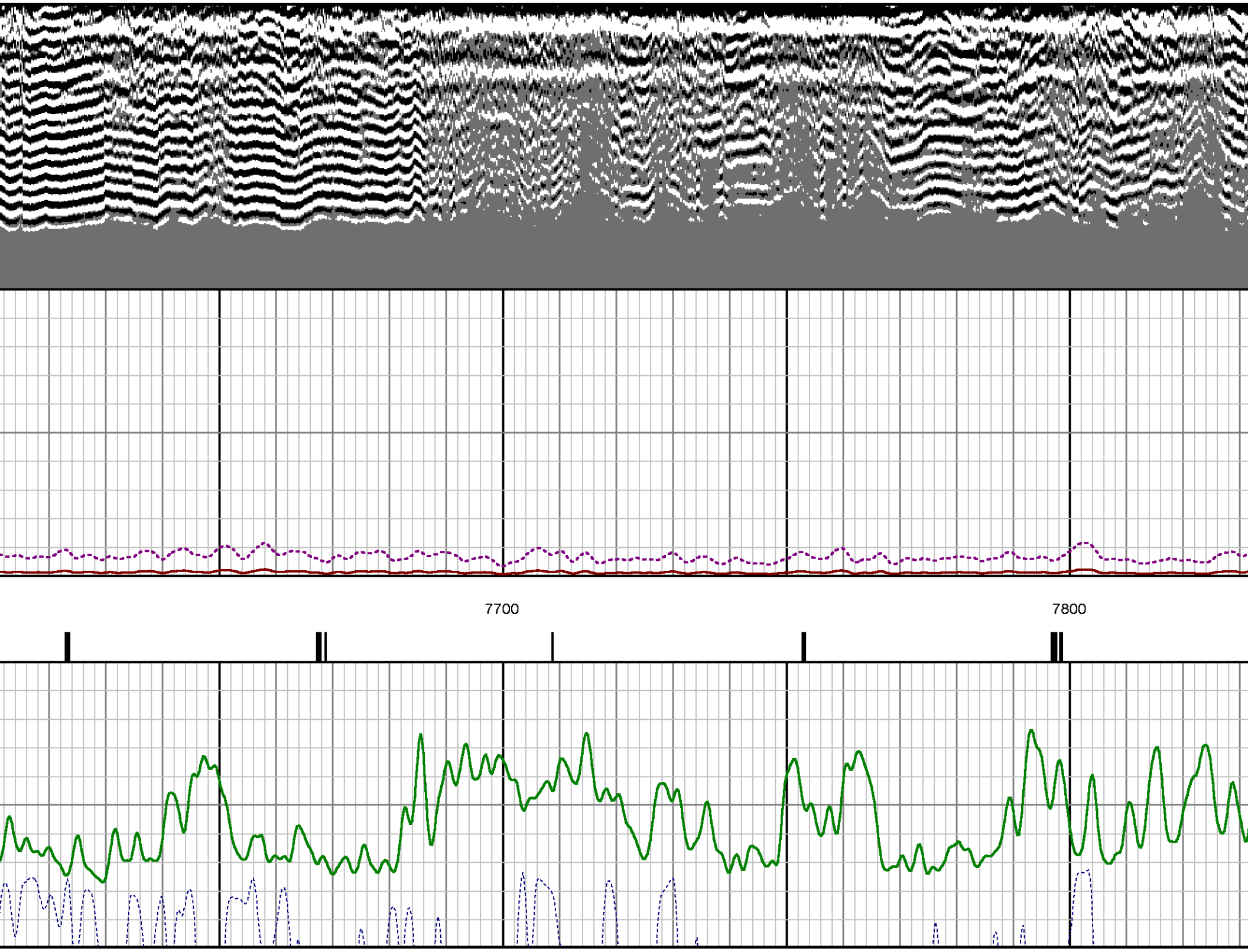
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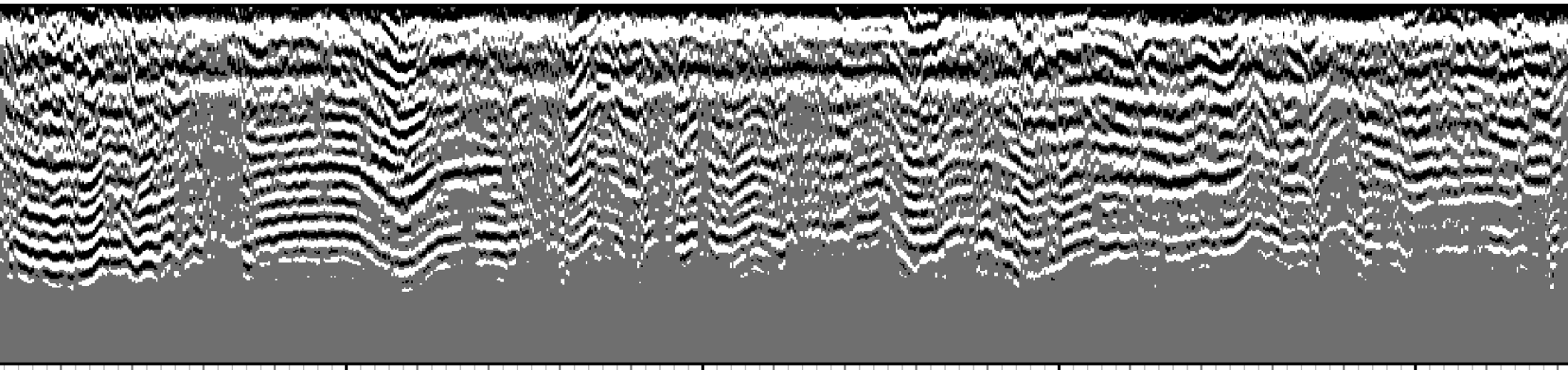

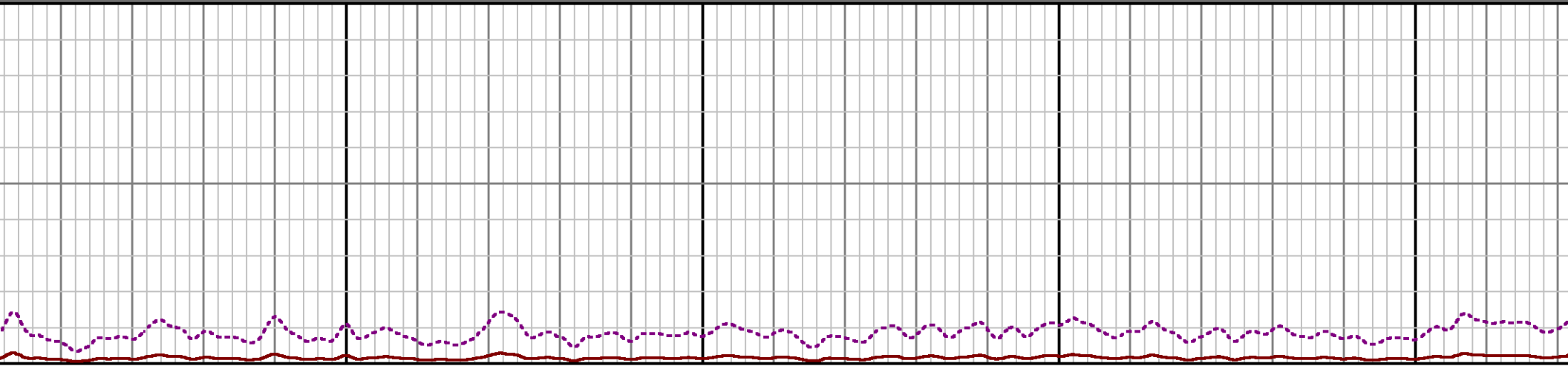

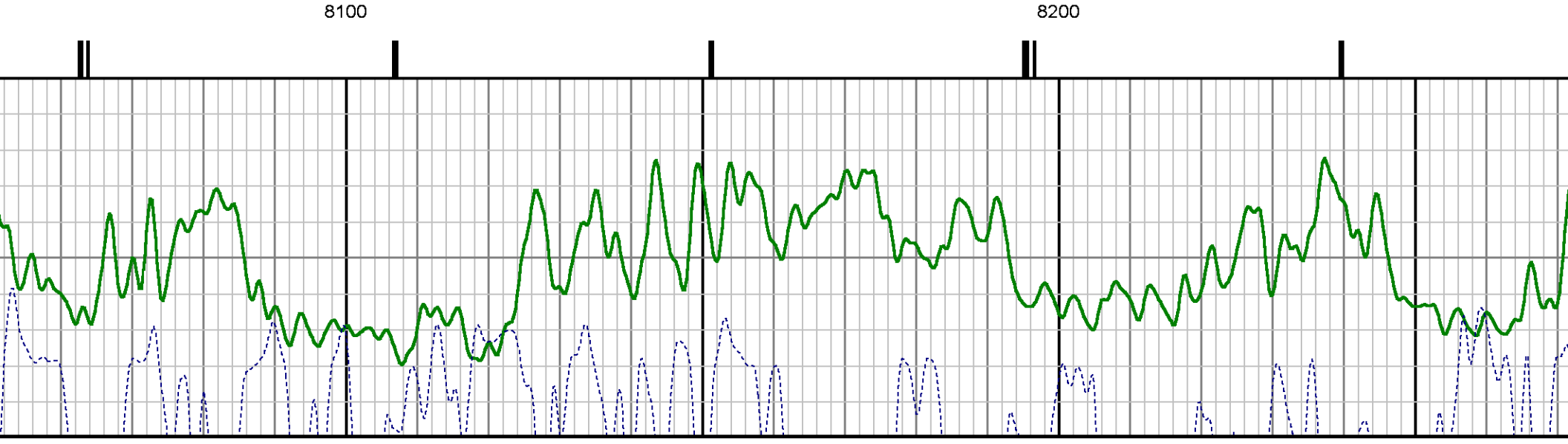
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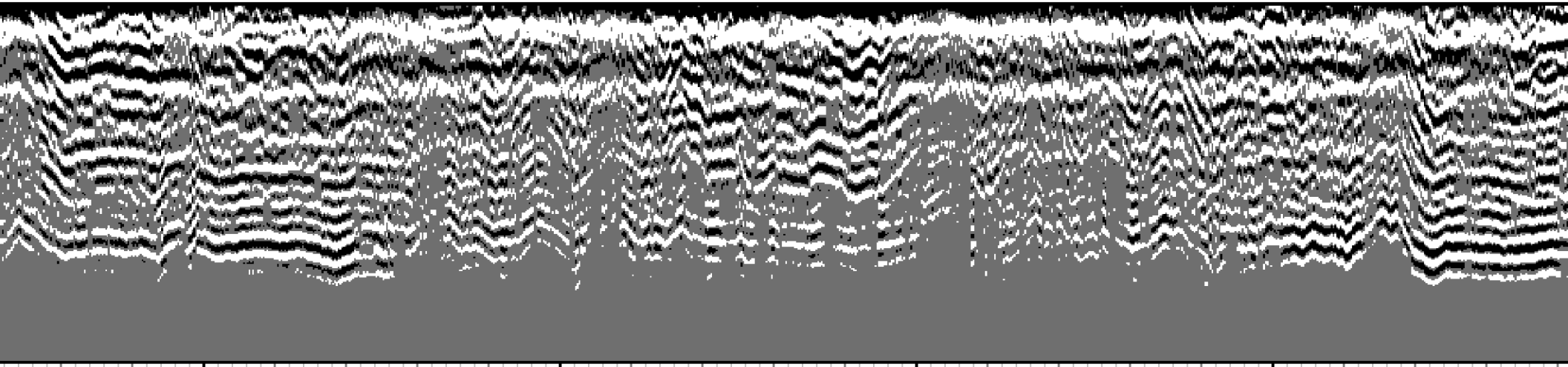

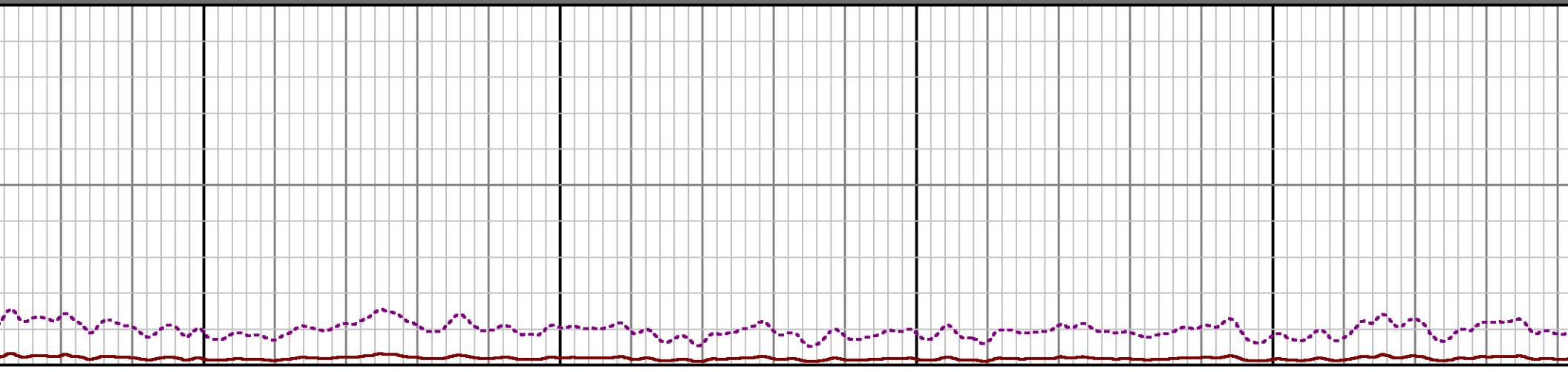

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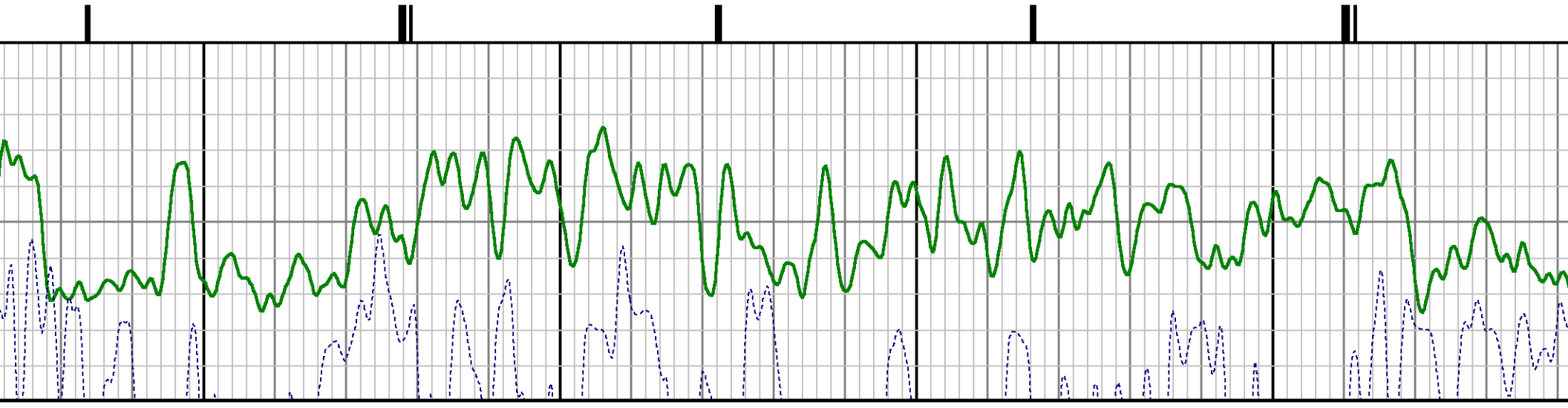

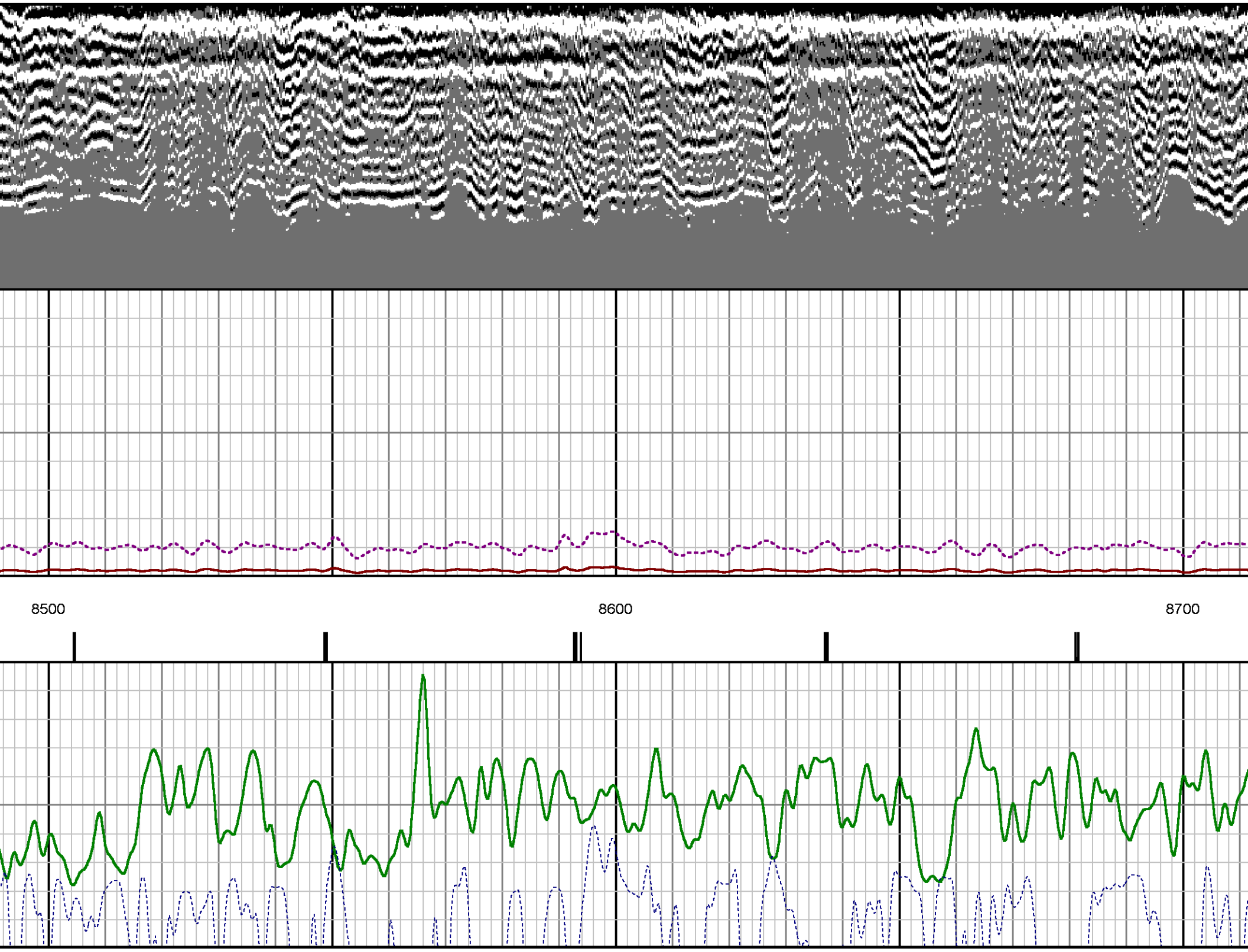
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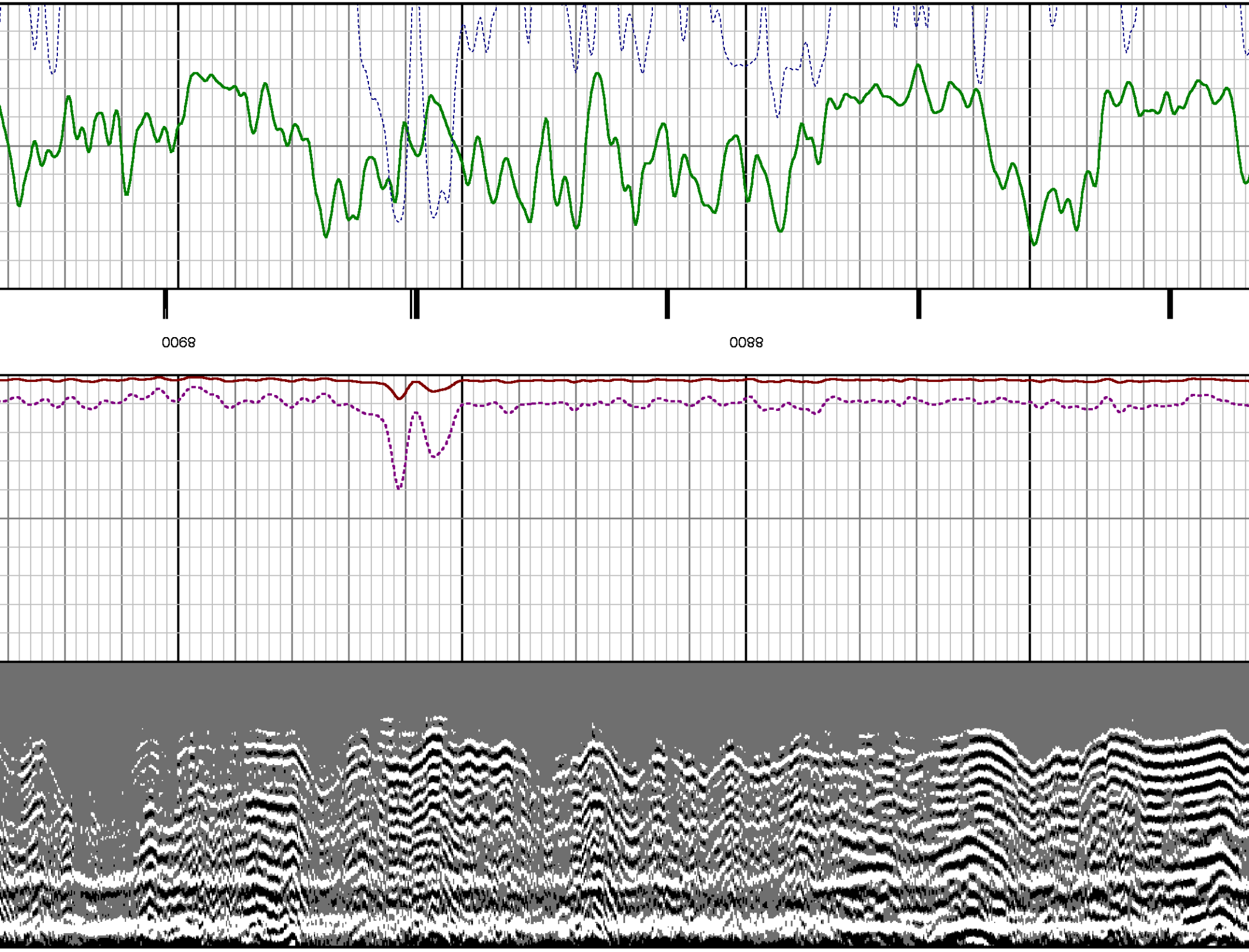
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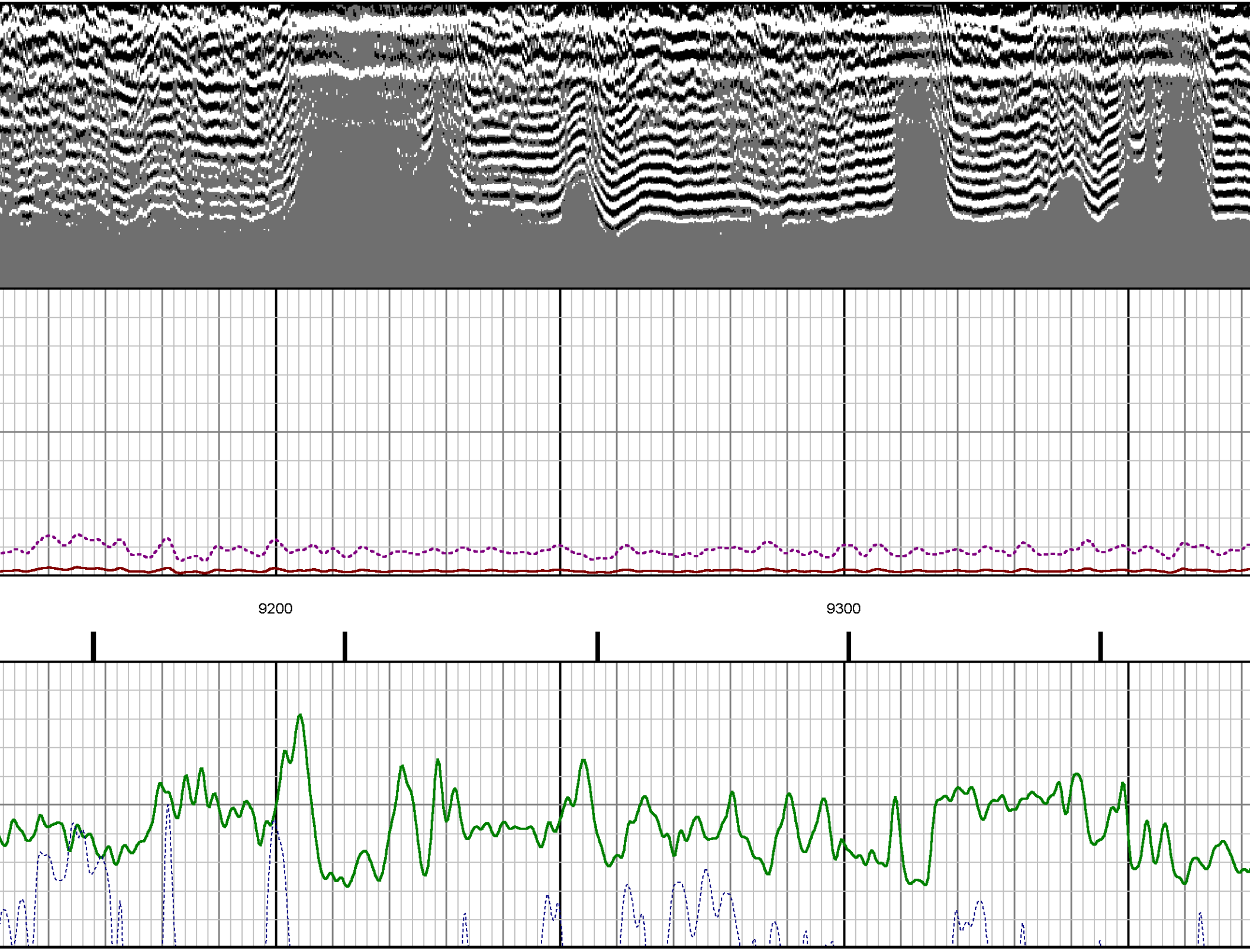
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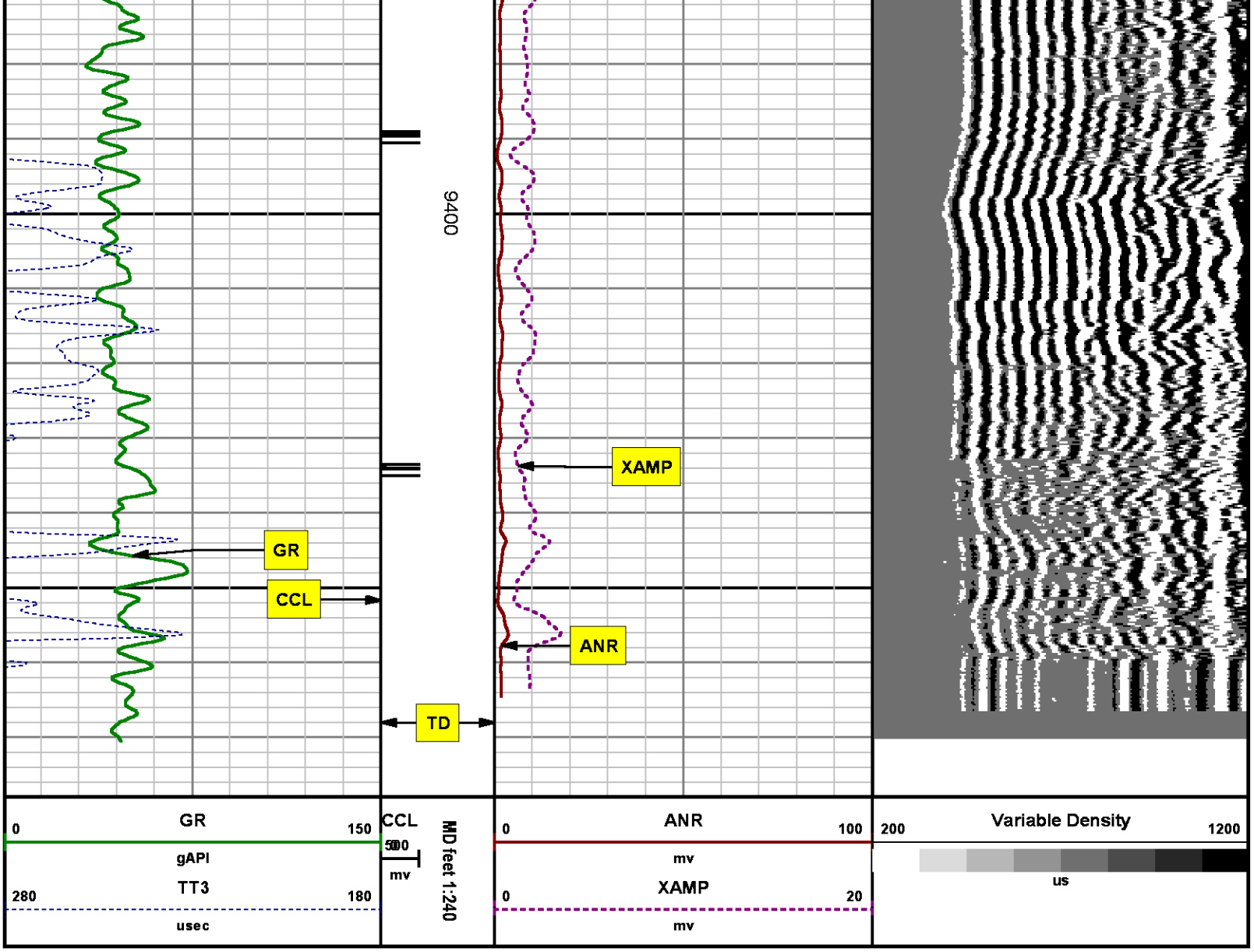


SECONDARY PRESENTATION
O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	31.905	9478.000
RAL	Amp Gate Start Near	195.000	usec	31.905	9478.000
RAL	Amp Gate Start Radial	195.000	usec	31.905	9478.000
RAL	Amp Gate Width Far	25.000	usec	31.905	9478.000

RAL	Amp Gate Width Near	25.000	usec	31.905	9478.000
RAL	Amp Gate Width Radial	25.000	usec	31.905	9478.000
RAL	casing od	4.500	inches	31.905	9478.000
RAL	casing wt	11.600	lbm/ft	31.905	9478.000
RAL	FB Start Far	291.900	usec	31.905	9478.000
RAL	FB Start Near	180.000	usec	31.905	9478.000
RAL	FB Start Radial	180.000	usec	31.905	9478.000
RAL	FB Thresh Far	10.000	mv	31.905	9478.000
RAL	FB Thresh Near	4.000	mv	31.905	9478.000
RAL	FB Thresh Radial	4.000	mv	31.905	9478.000
RAL	Fluid Travel Time	200.000	usec/ft	31.905	9477.593

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	-12.360	ACAL ANR AR1 AR2 AR3 AR4 AR5 AR6 AR7 AR8 CHV FPR2 FPR3 FPR5 TT3 TTR1 TTR2 TTR3 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
1426XA	-11.360	AFAR SIG TT5
2459XA	-7.250	CCL
2459XA	-5.390	GR
2459XA	0.000	NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

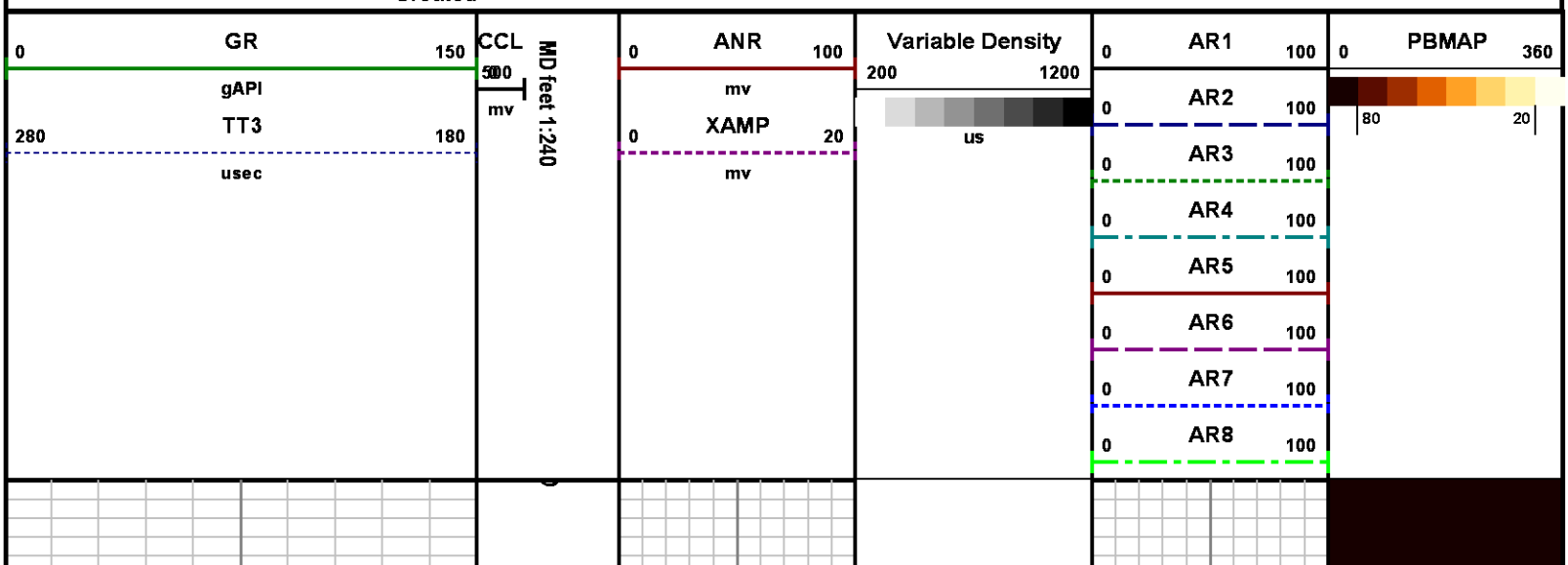
Well : AP 424-17-695

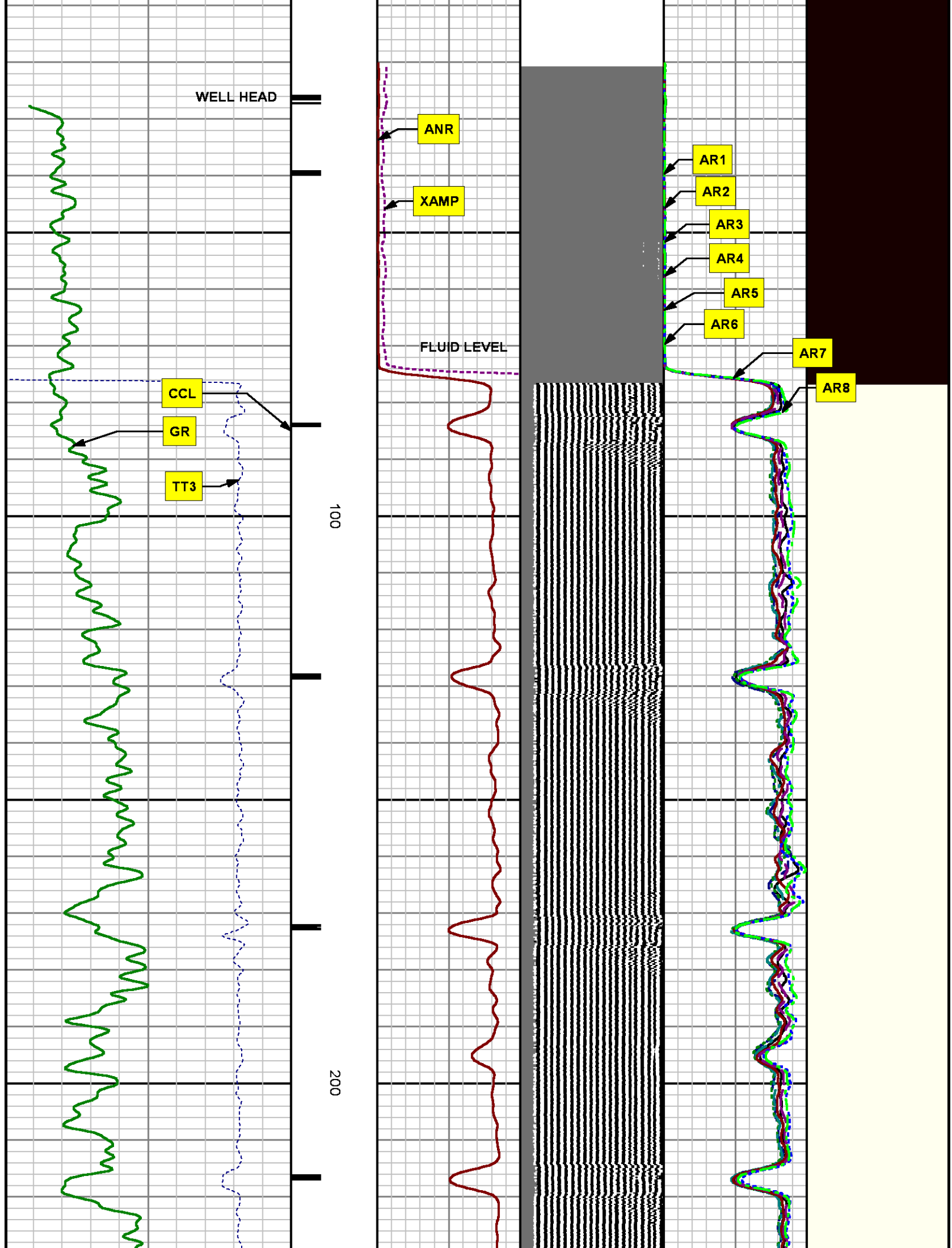
File Name : d:\welldata\wpx\ap 424-17-695\ral424\main.xtf

Mode : PlotMgr 5.4.504

Interval : 0.00 - 9472.00 feet UP

Created : 10/11/2014 11:50:24 AM



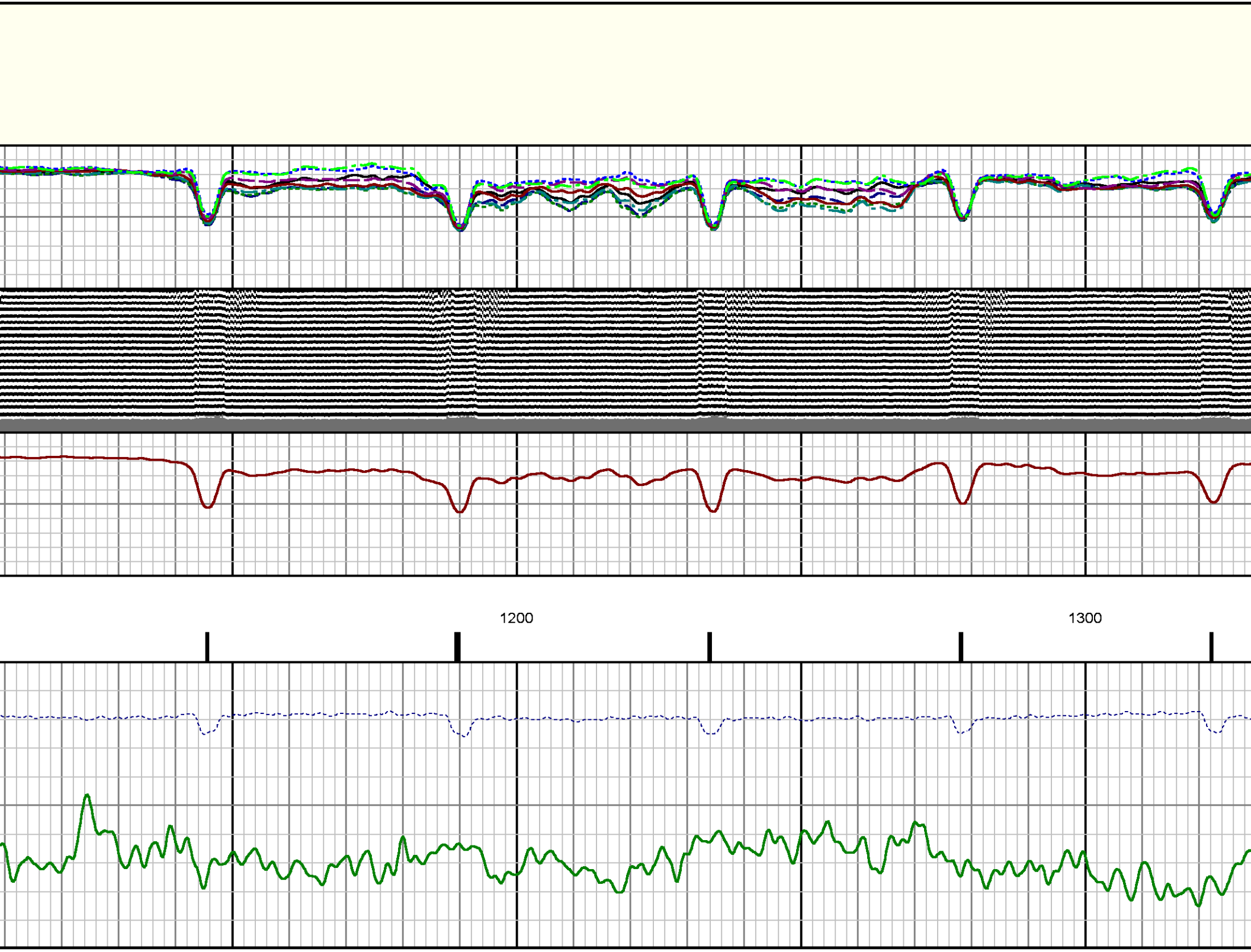

WELL HEAD
ANR
XAMP
FLUID LEVEL
AR1
AR2
AR3
AR4
AR5
AR6
AR7
AR8
CCL
GR
TT3
100
200

300
400

500
600

700
800

900
1000
1100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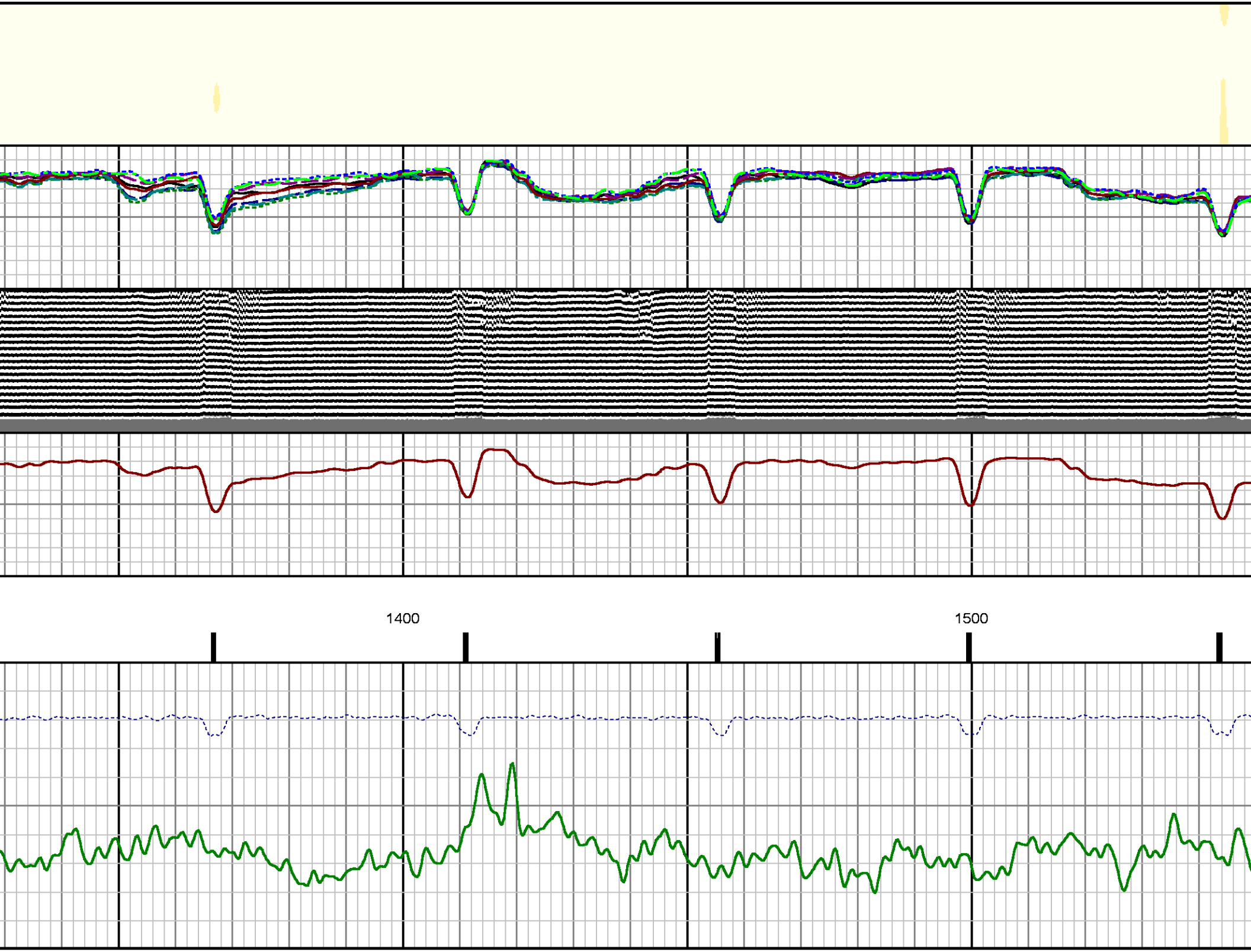
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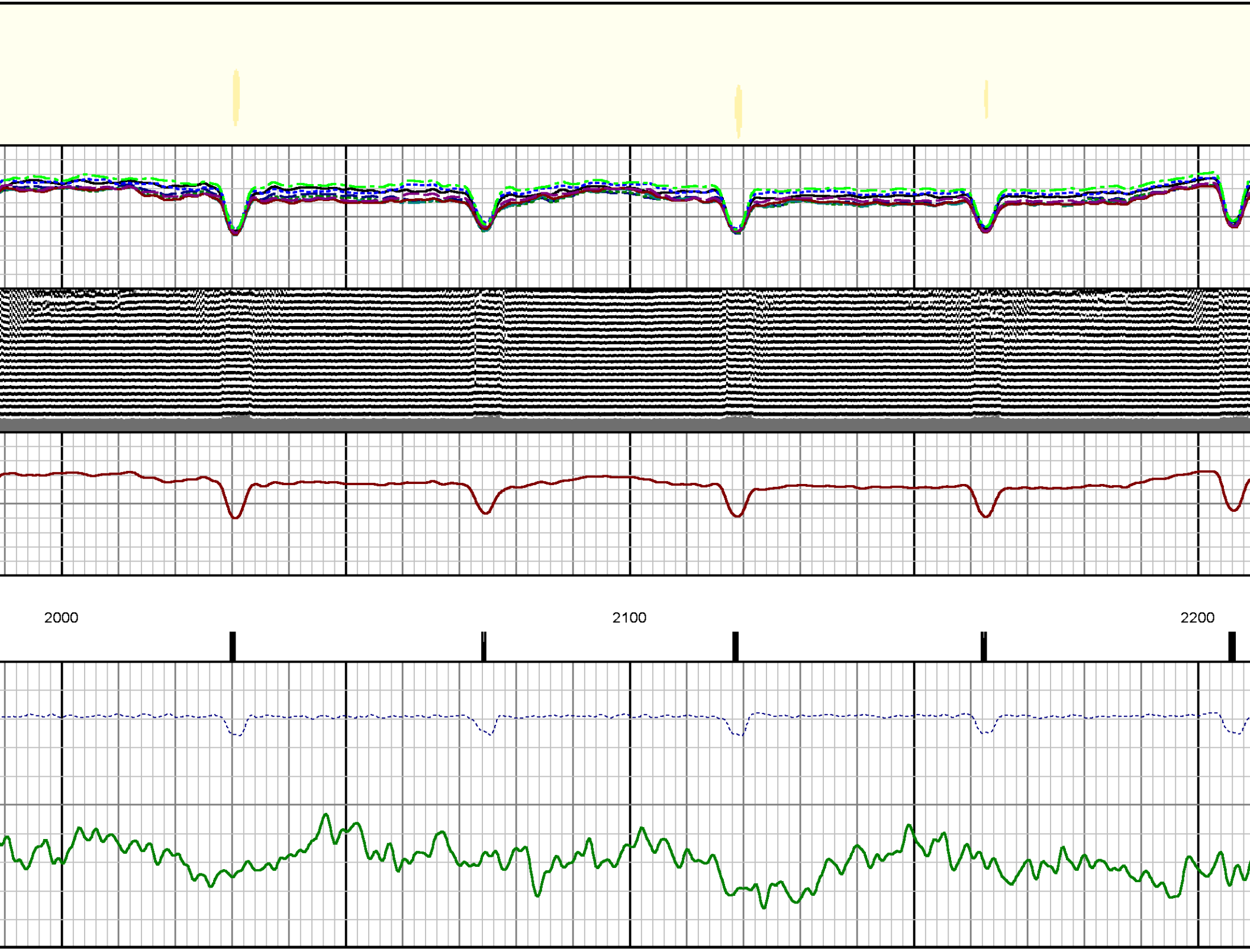
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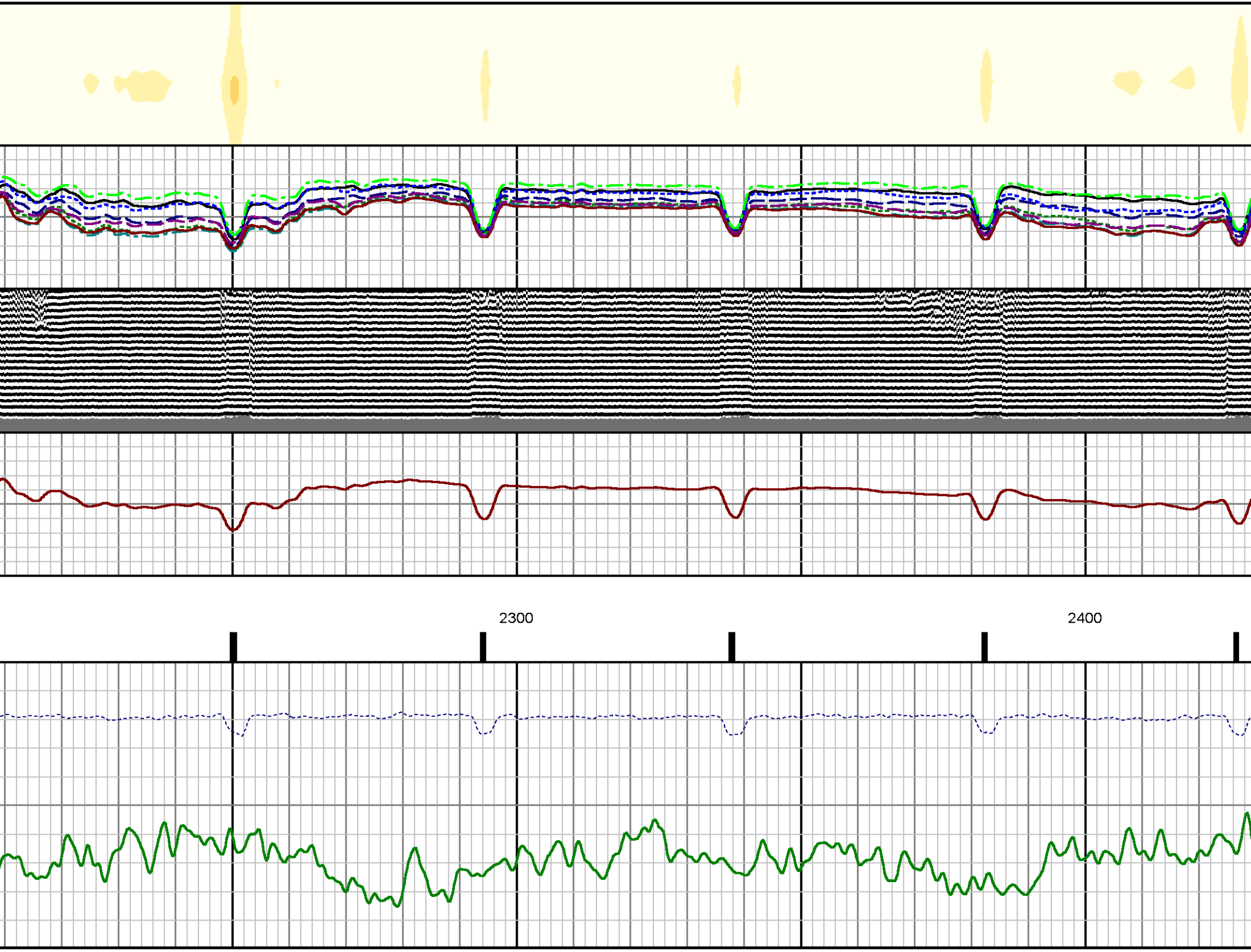
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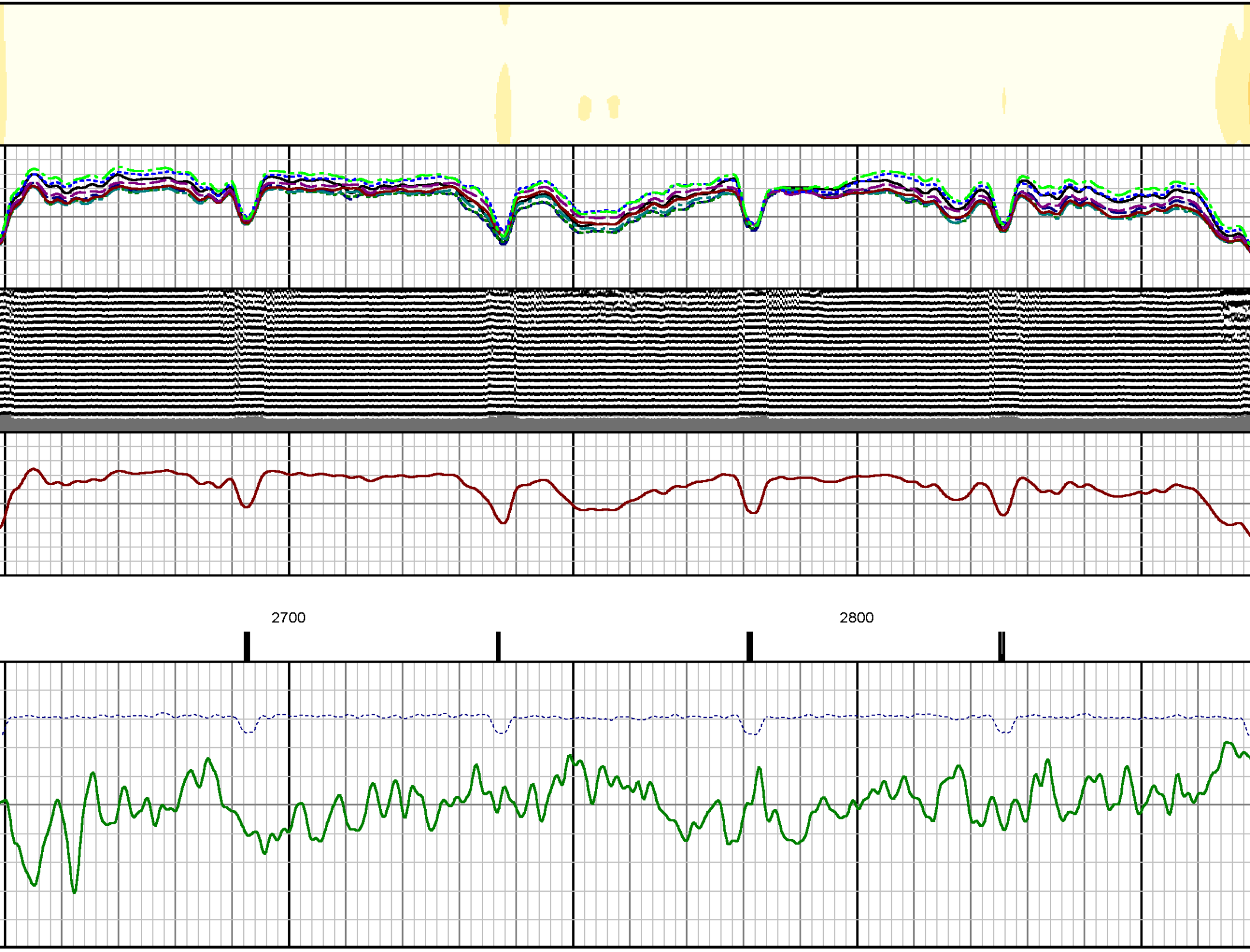
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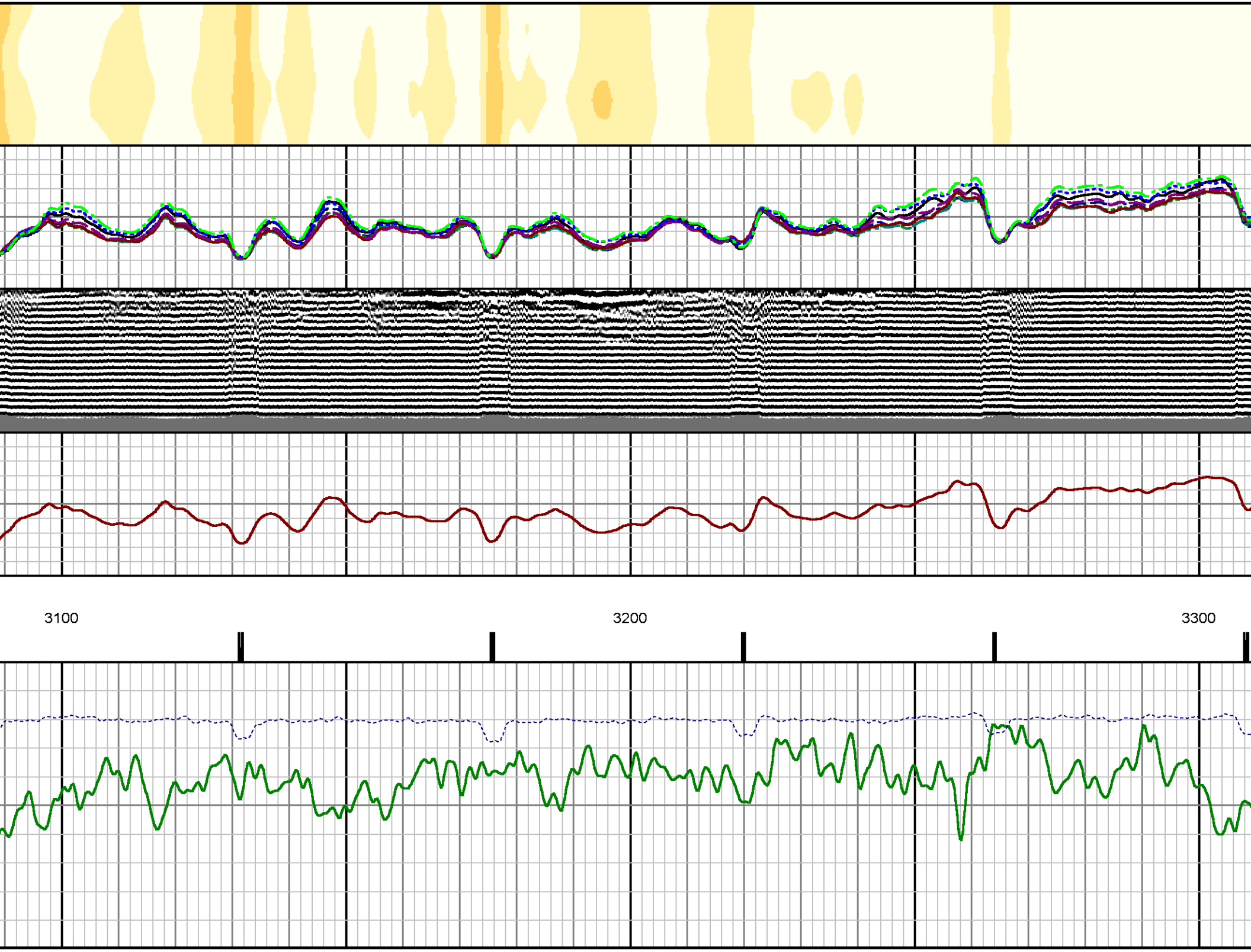
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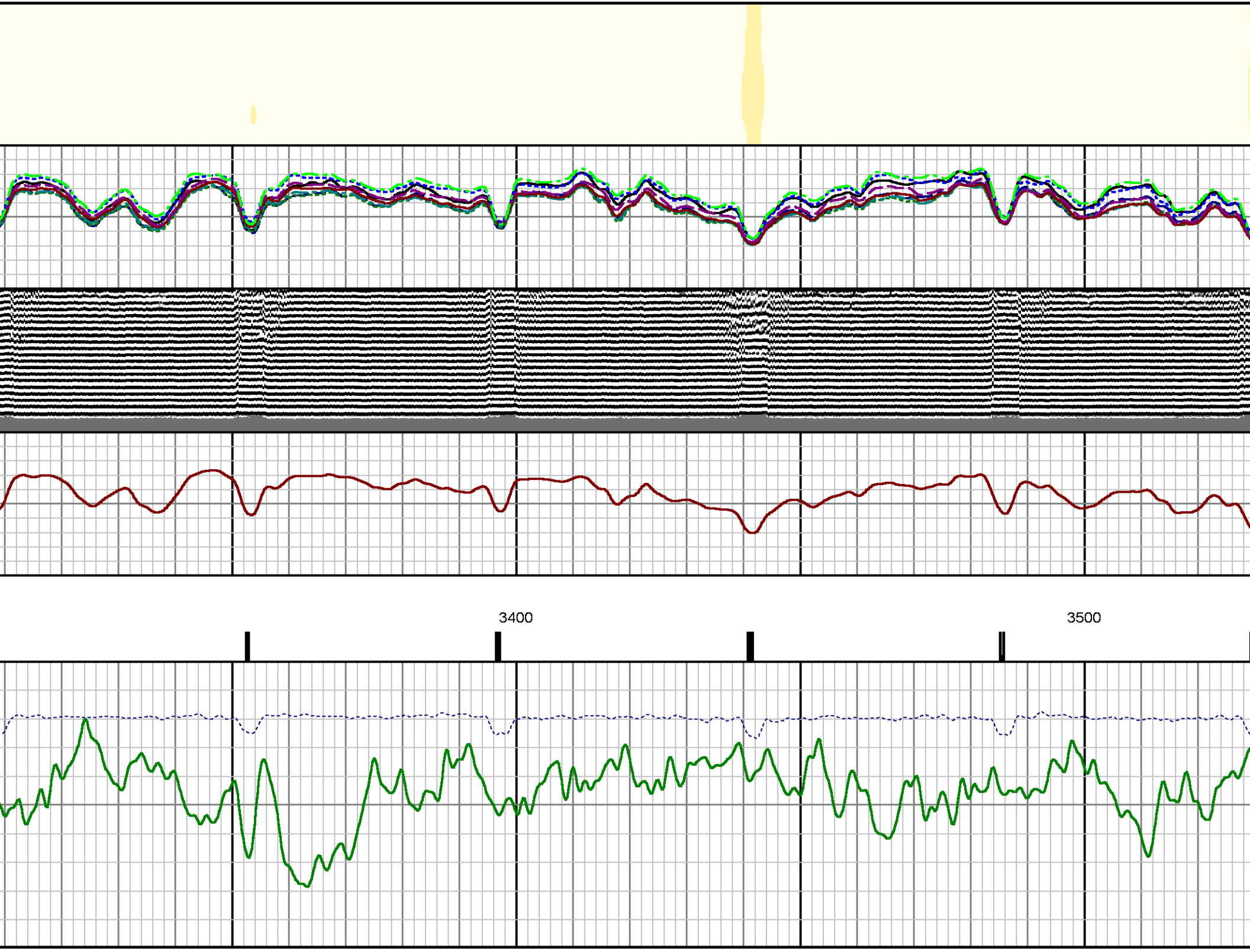
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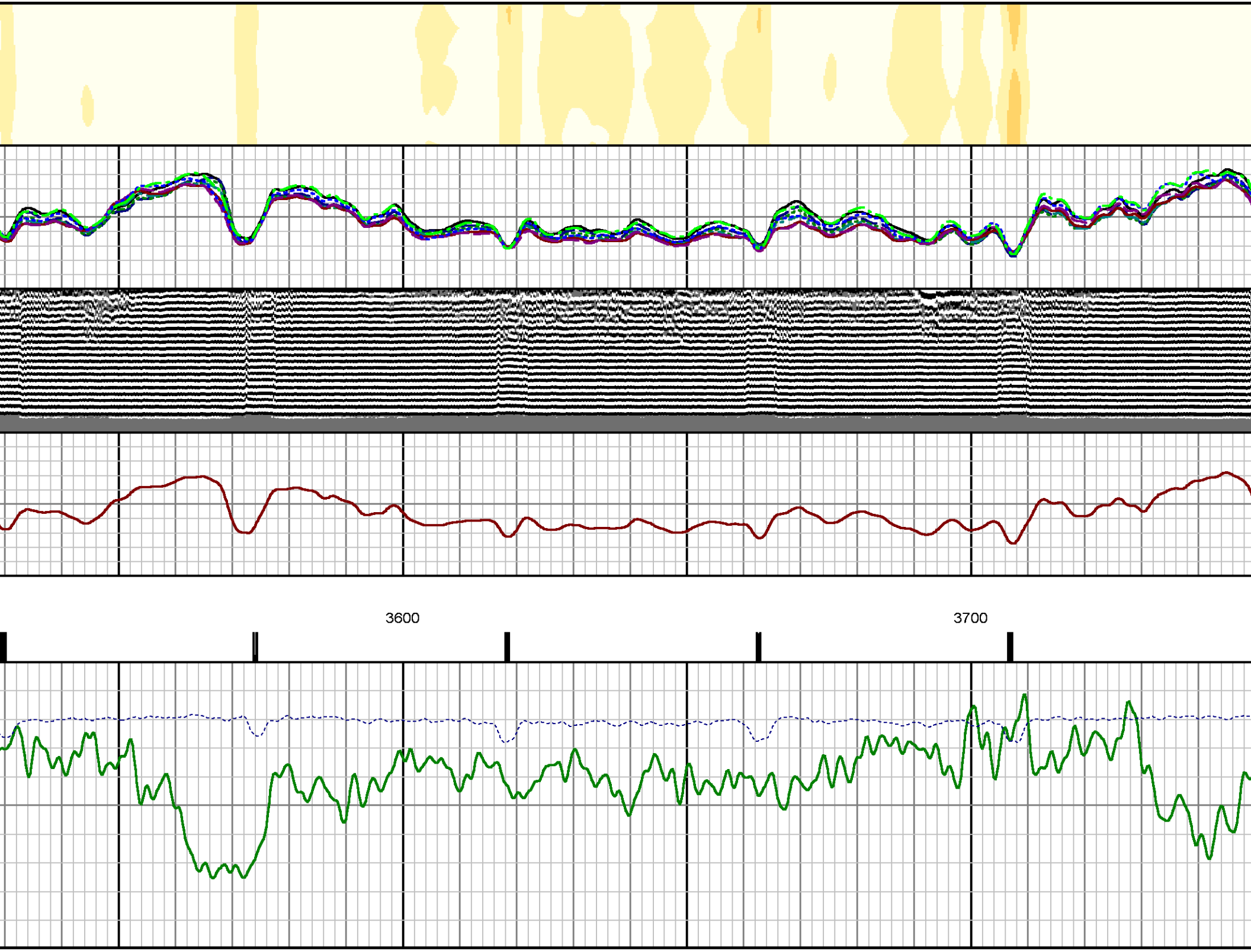
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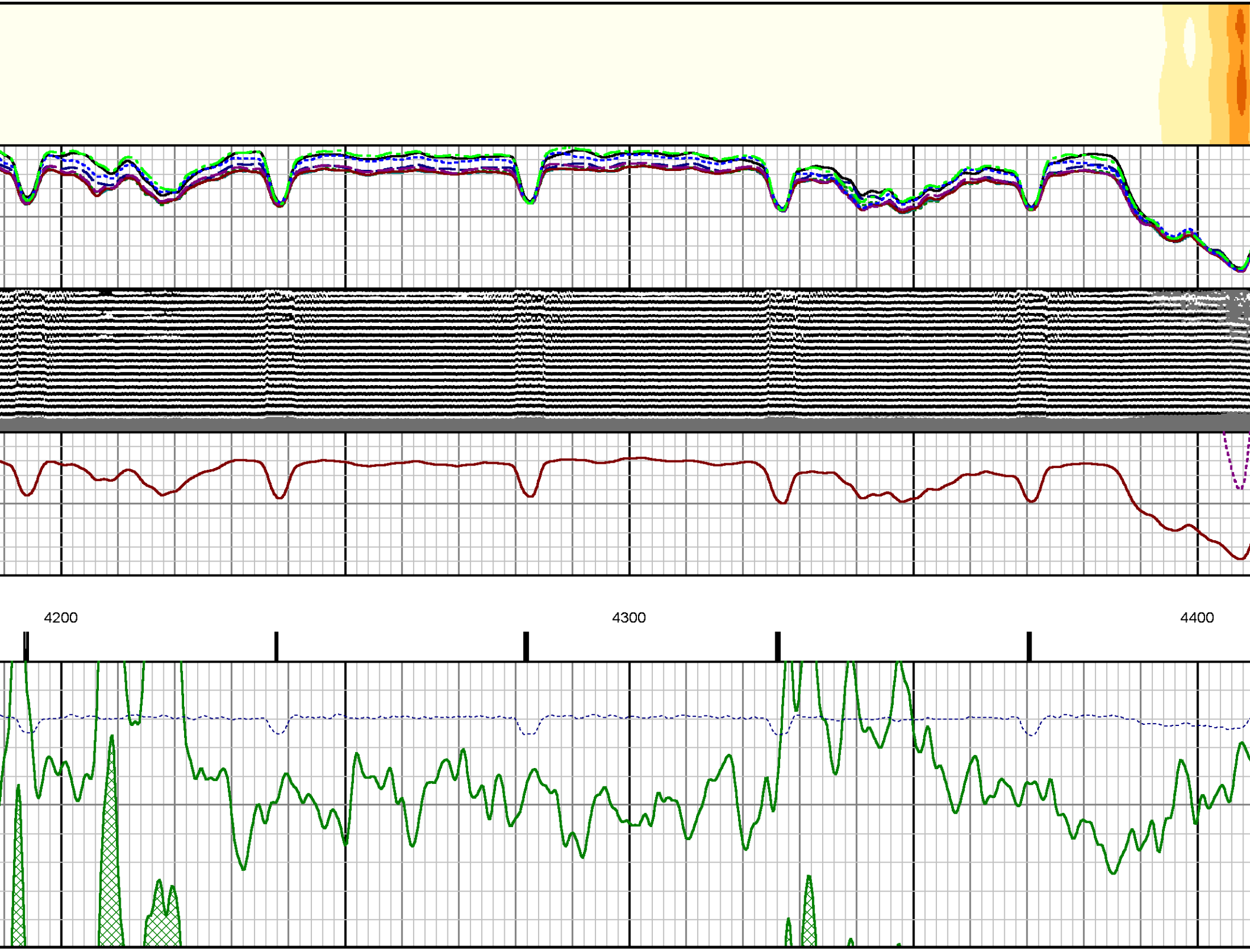
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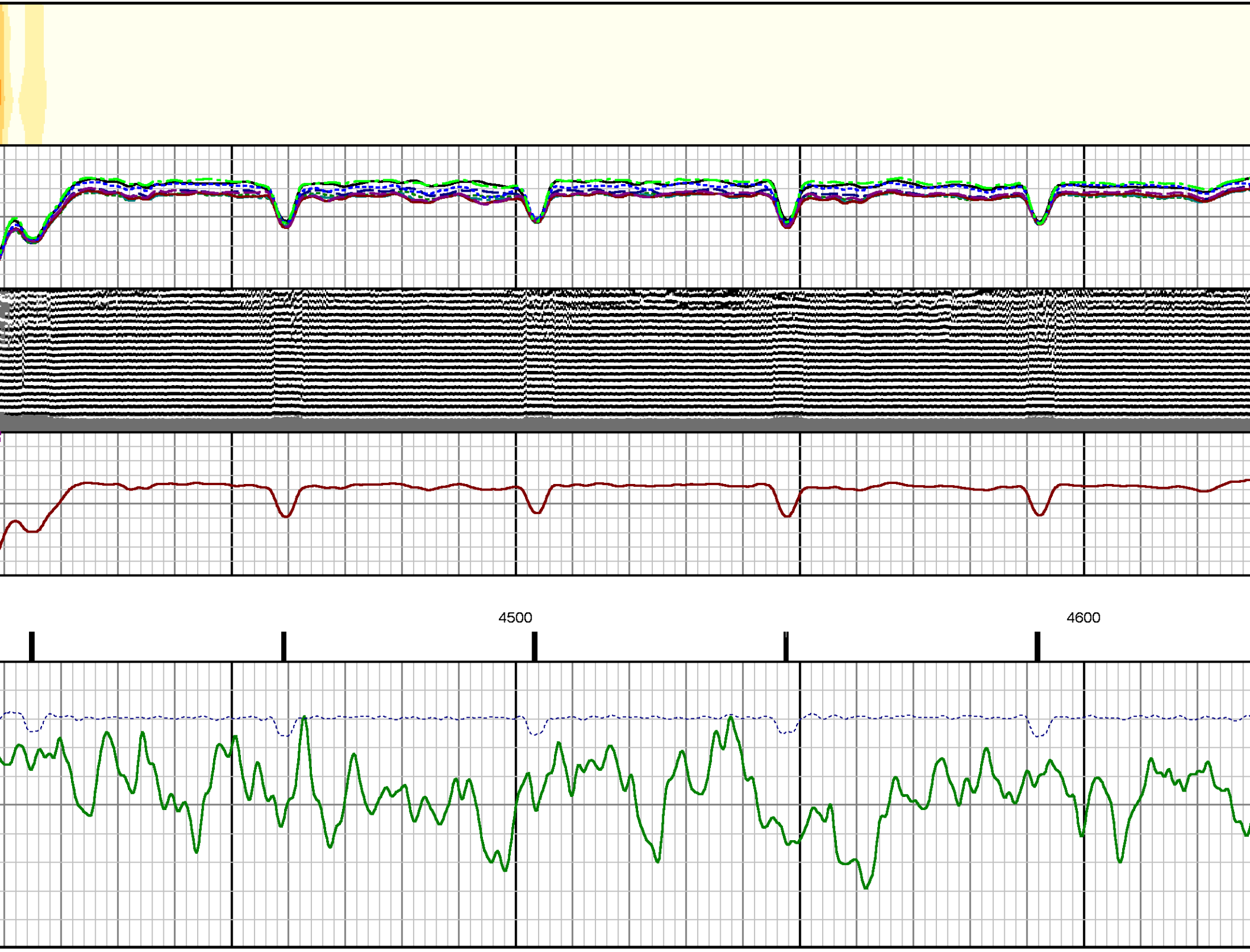
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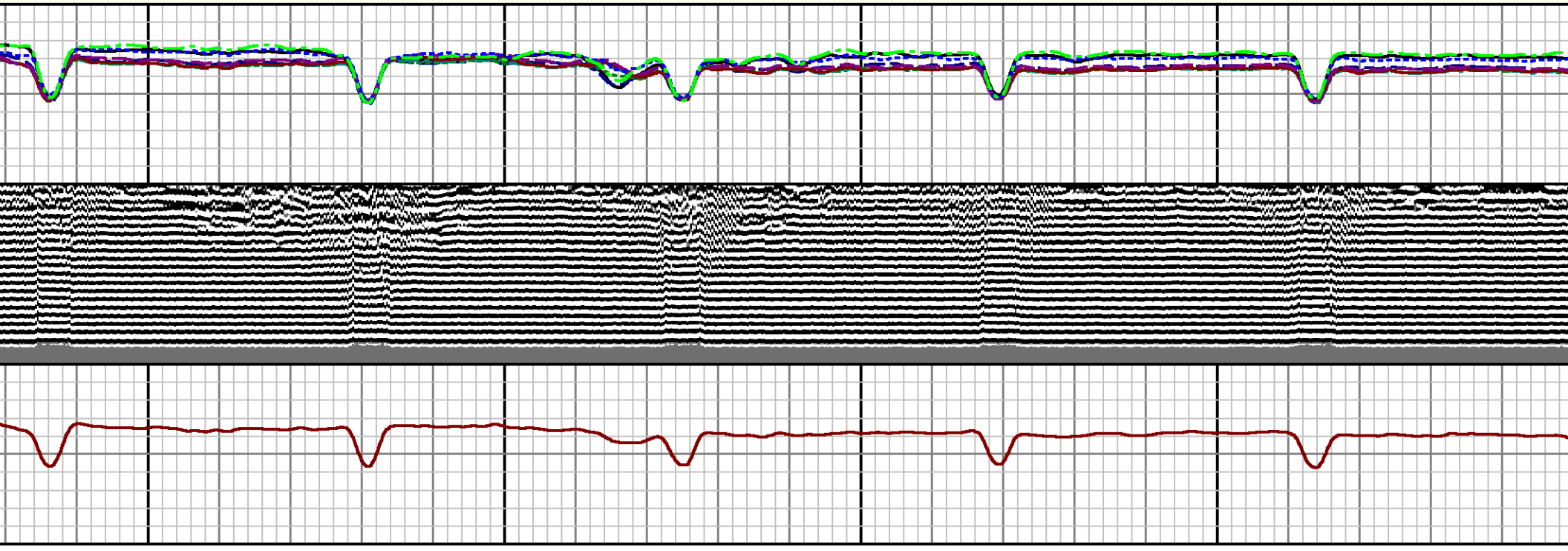

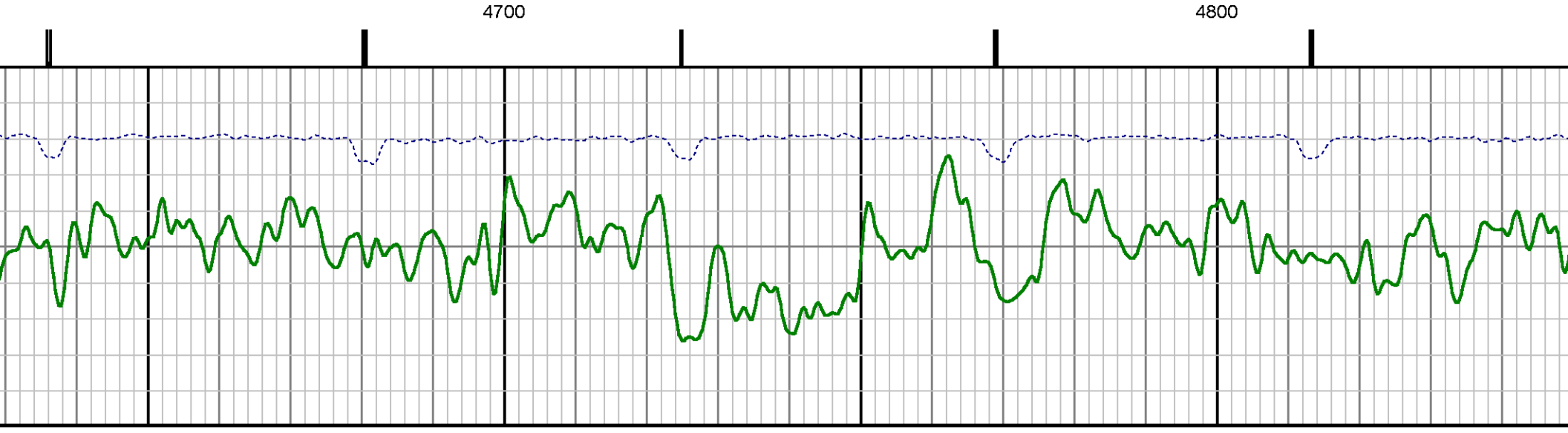
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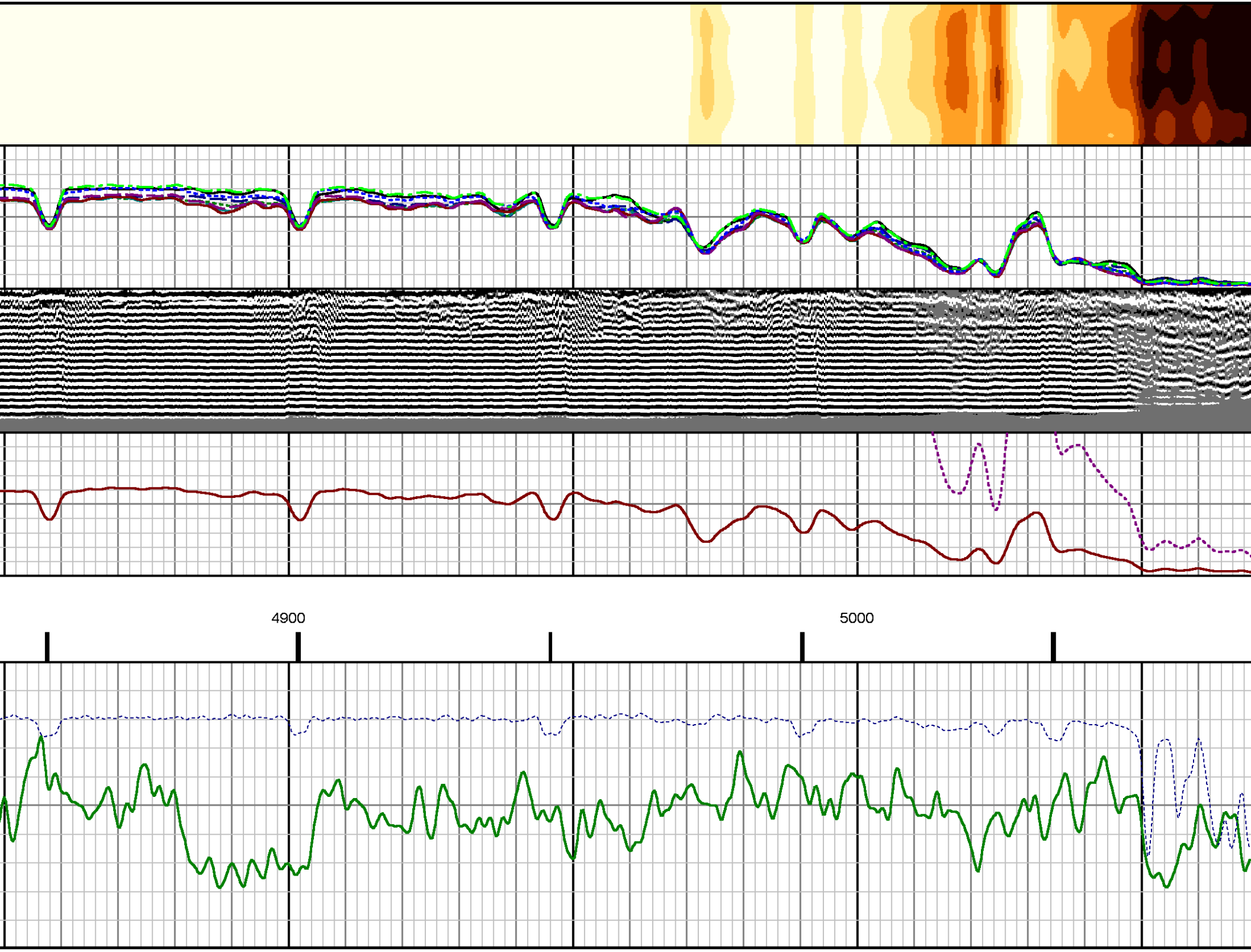
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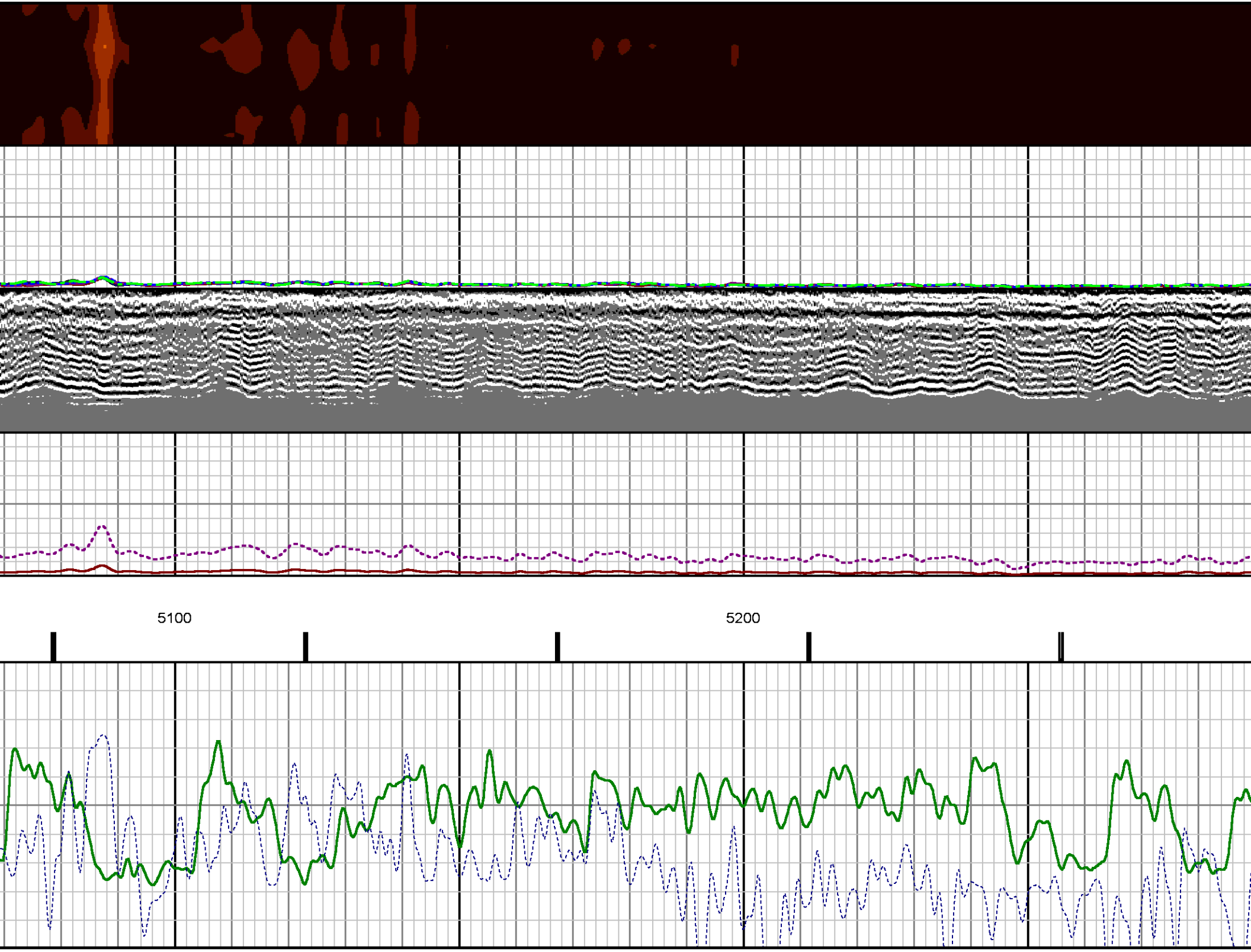
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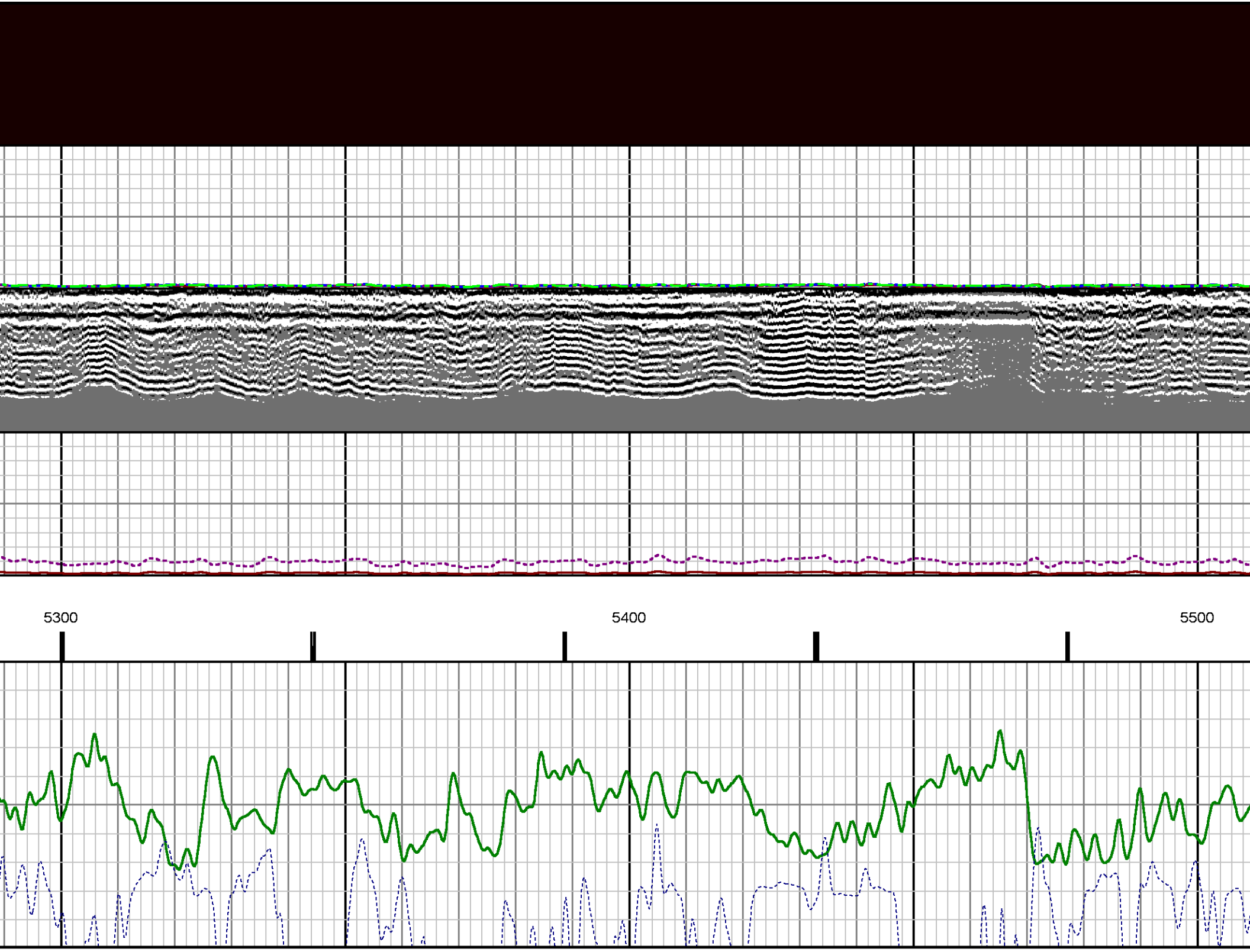
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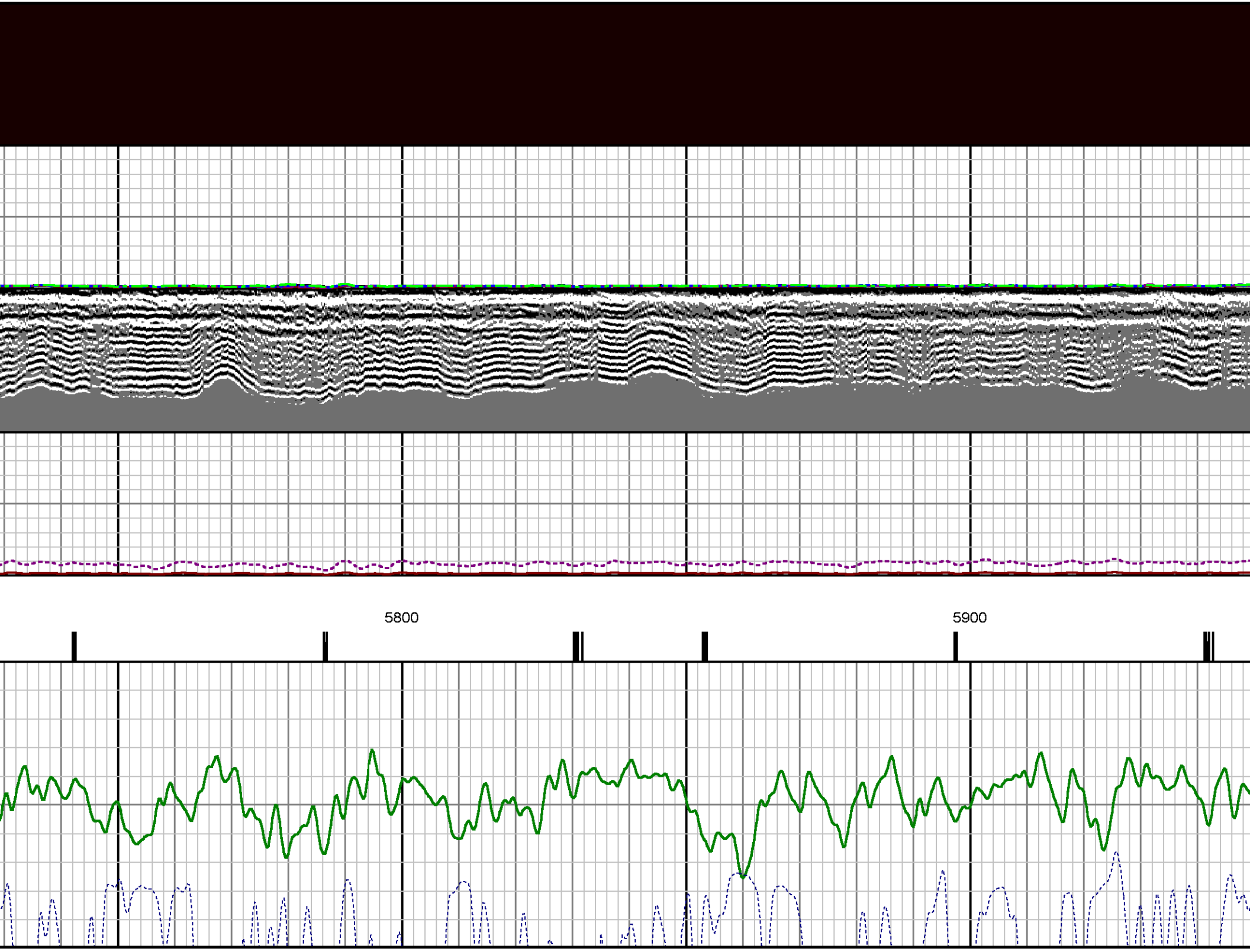
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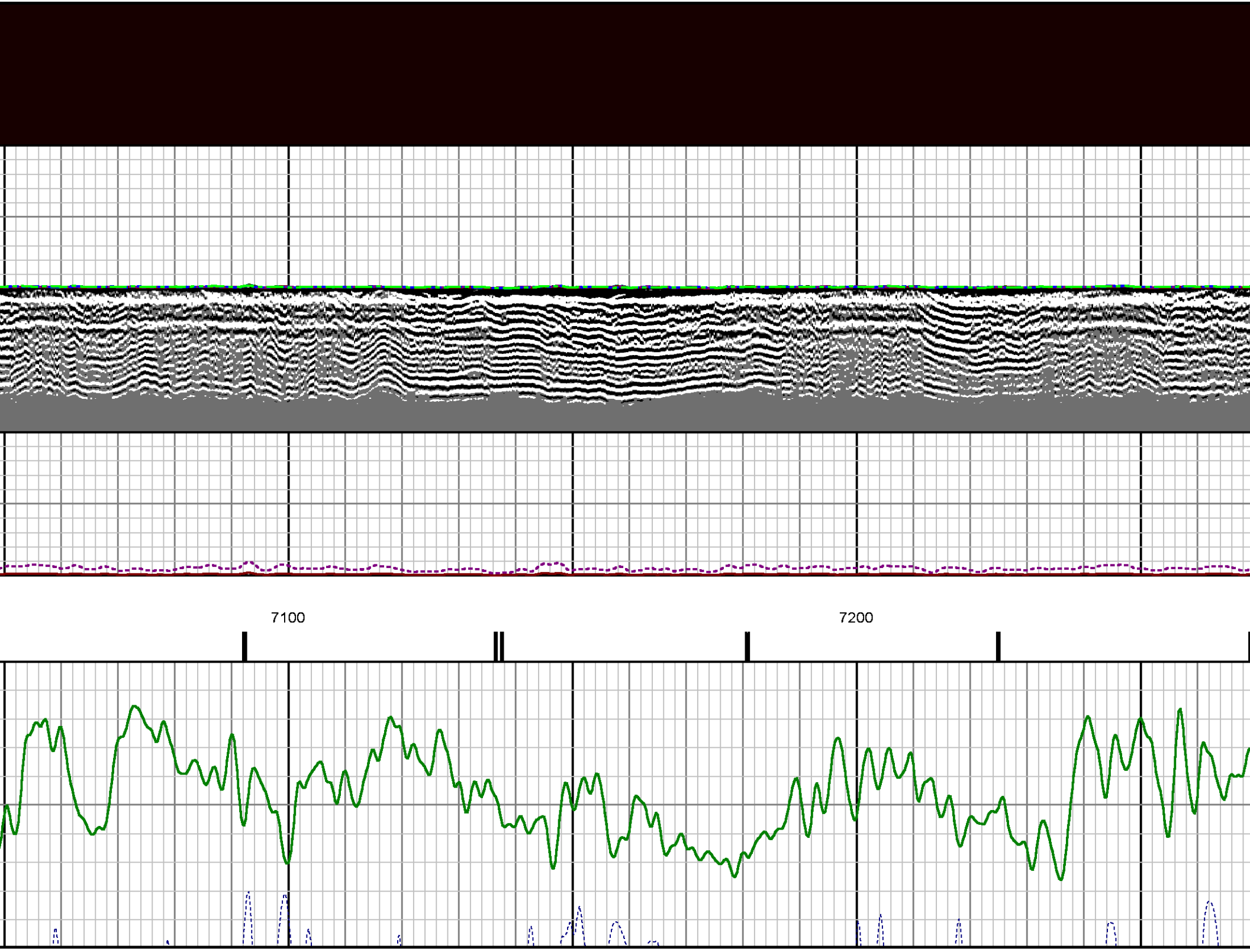
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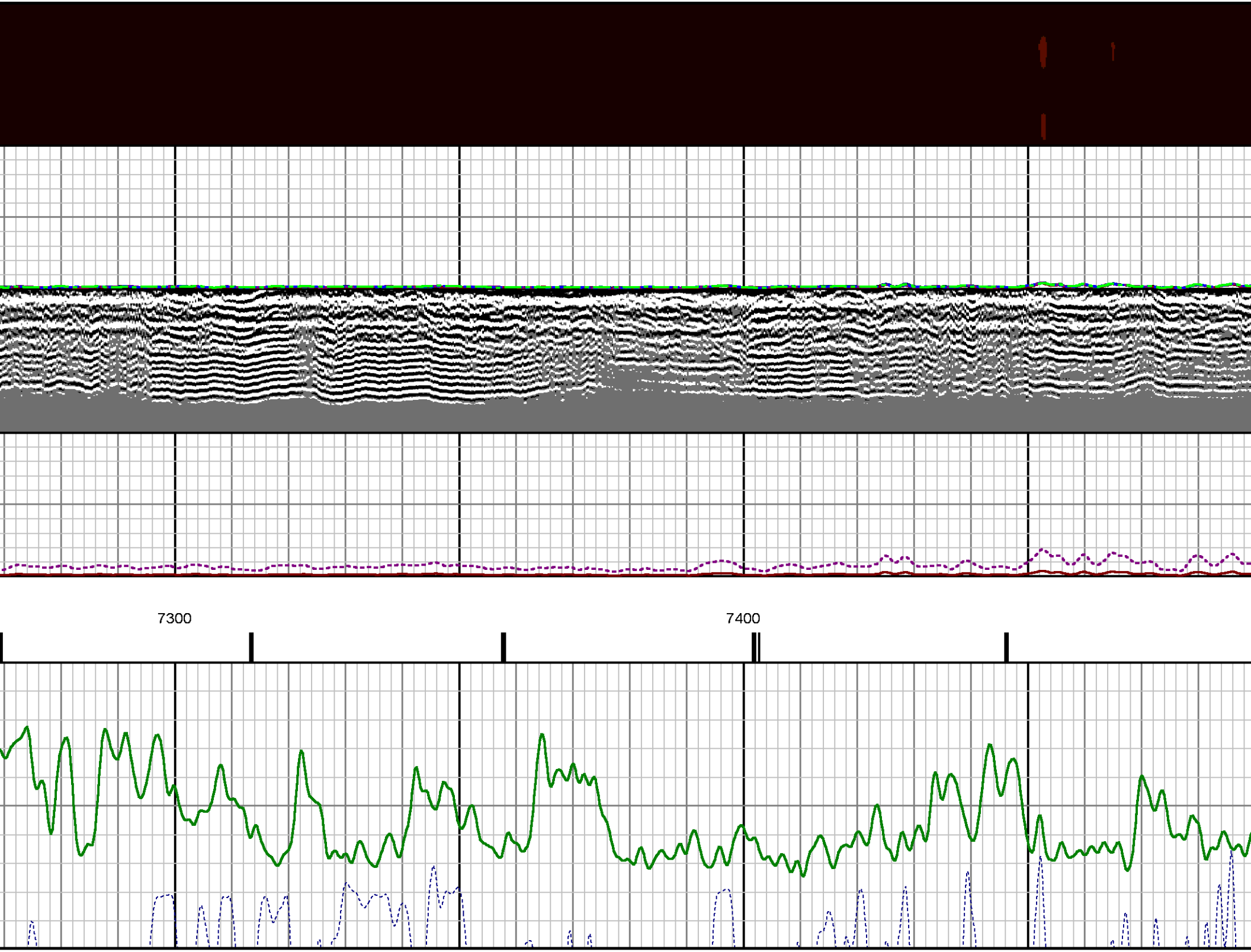
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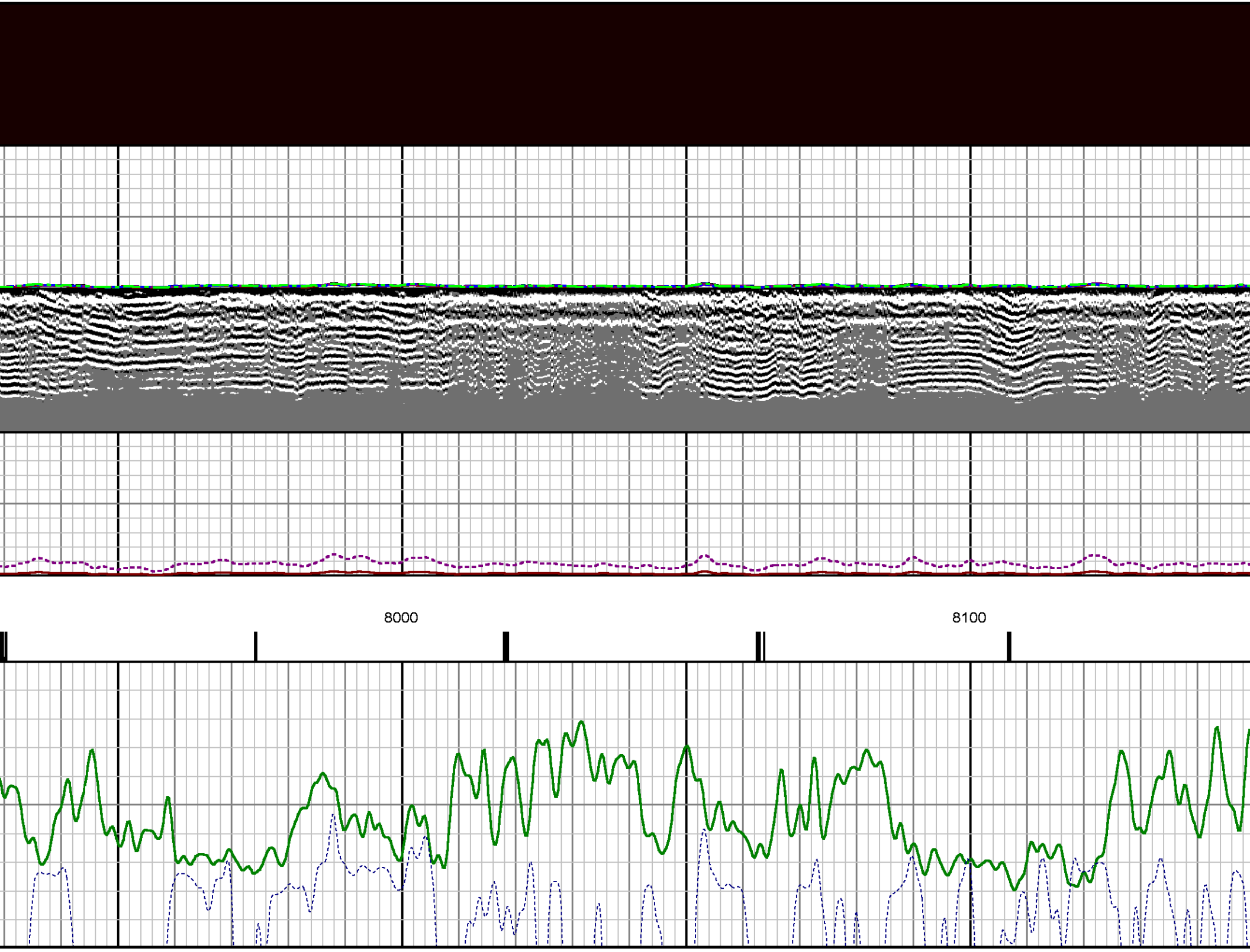
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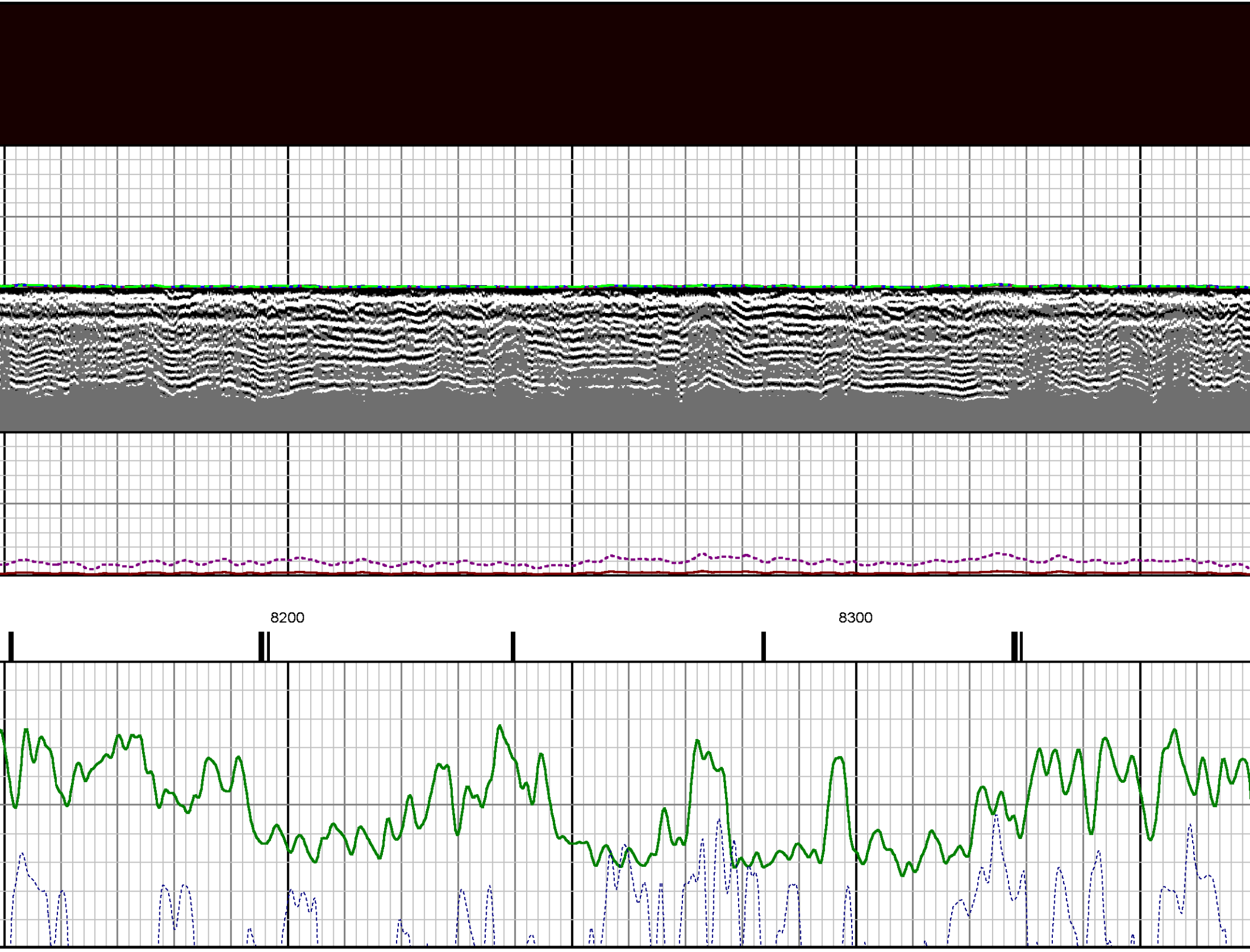
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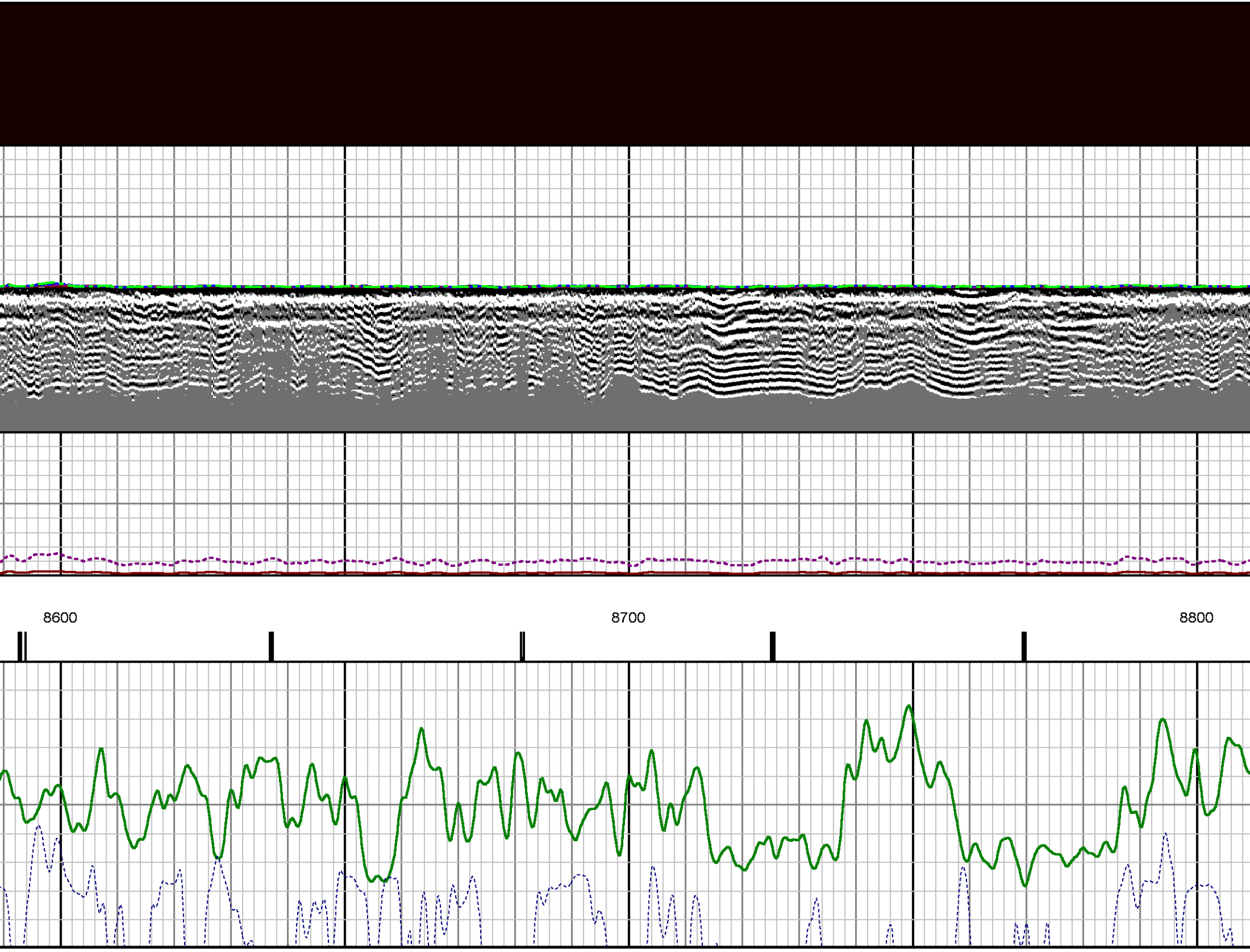
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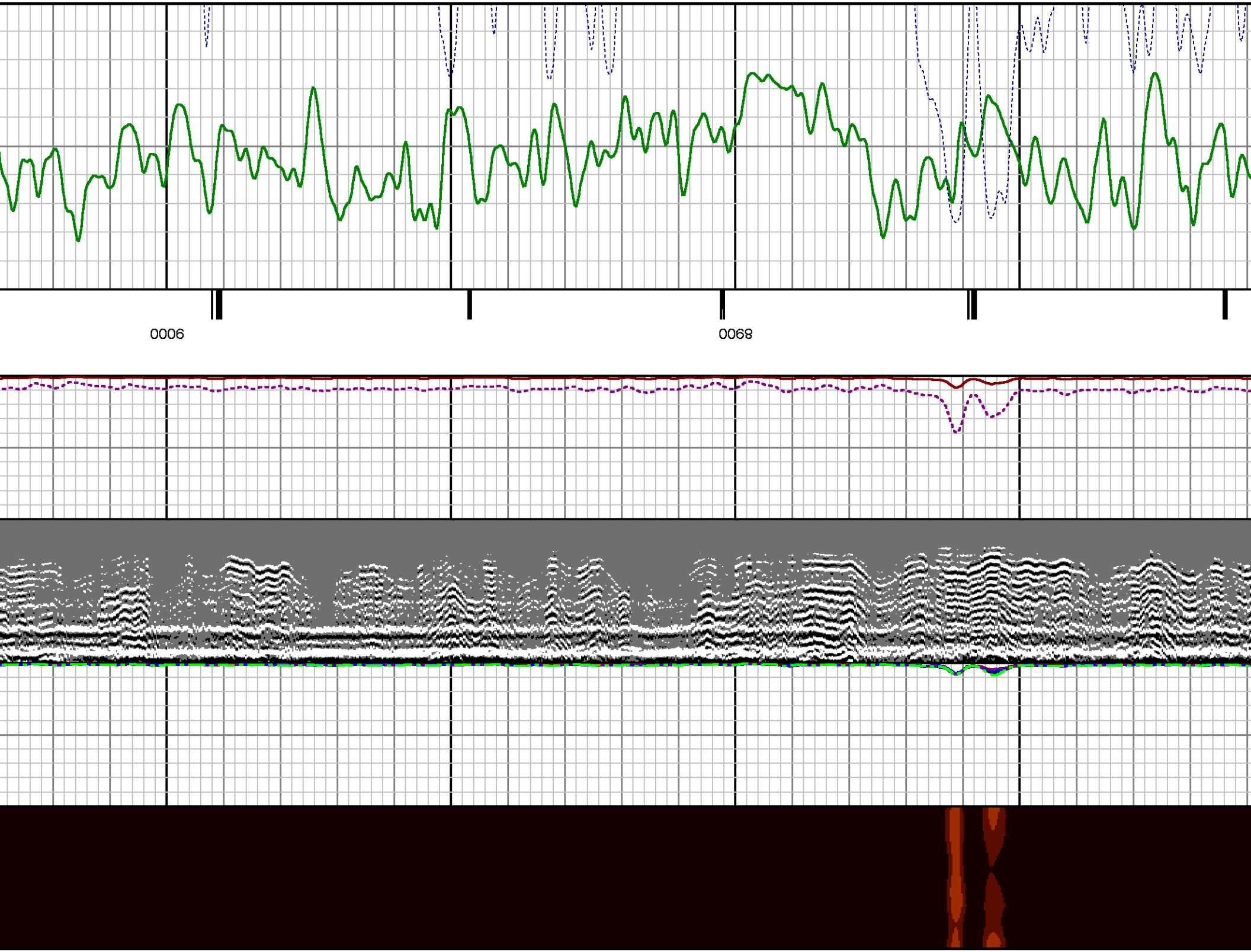
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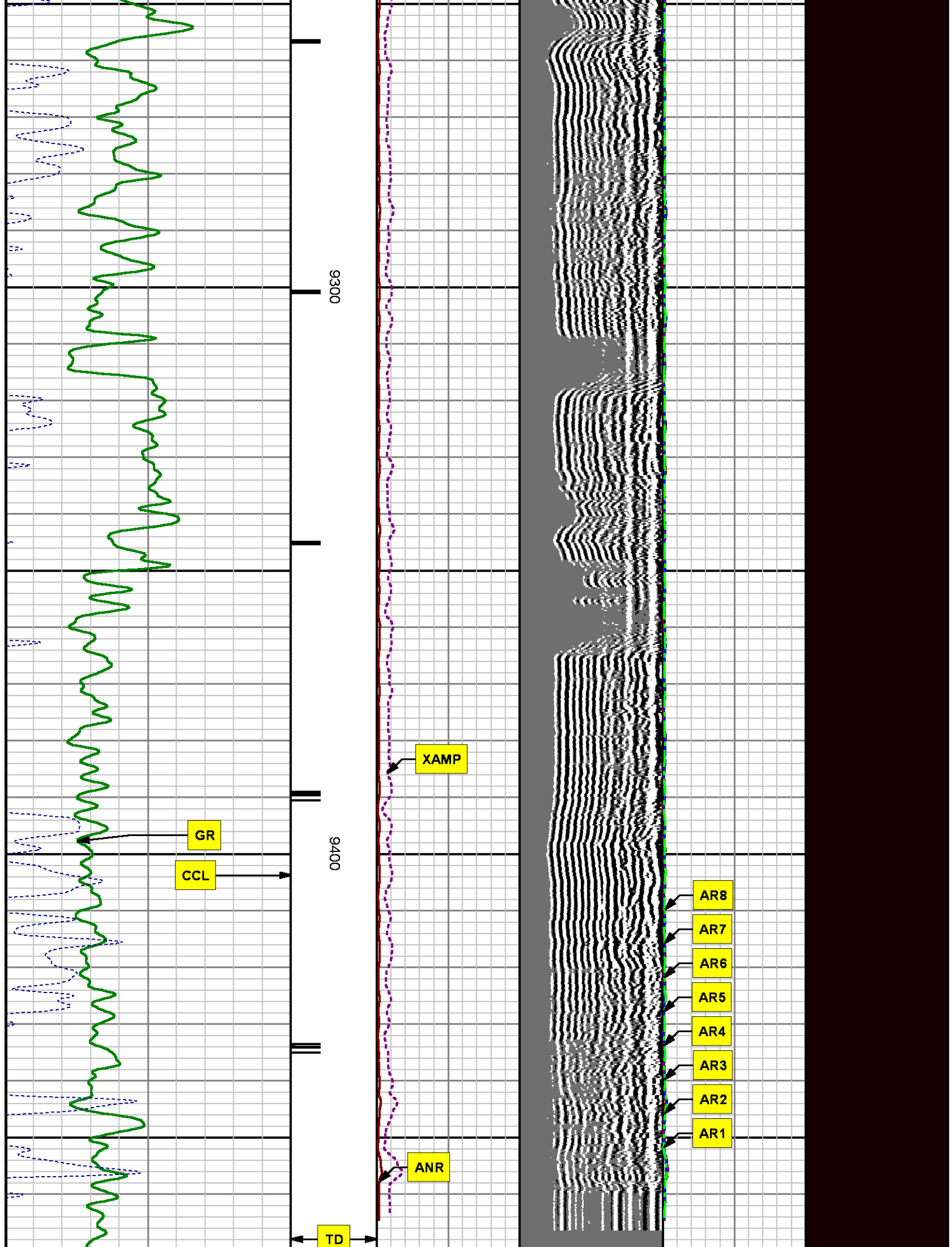
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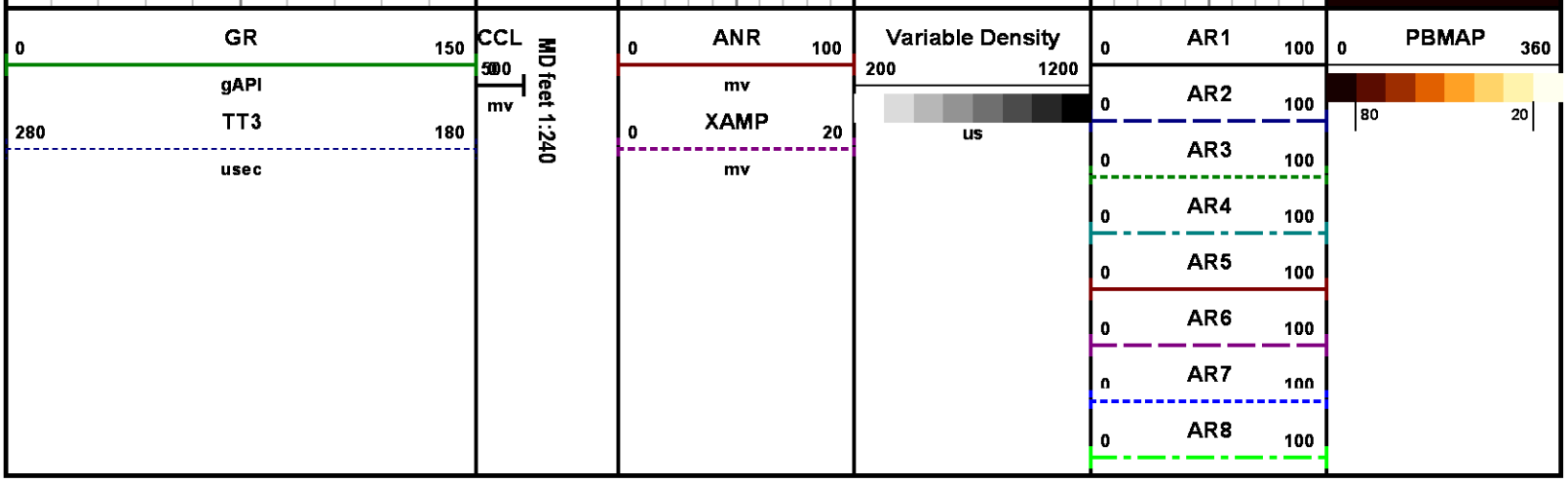

REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	9148.080	9475.330
RAL	Amp Gate Start Near	195.000	usec	9148.080	9475.330
RAL	Amp Gate Start Radial	195.000	usec	9148.080	9475.330
RAL	Amp Gate Width Far	25.000	usec	9148.080	9475.330
RAL	Amp Gate Width Near	25.000	usec	9148.080	9475.330
RAL	Amp Gate Width Radial	25.000	usec	9148.080	9475.330
RAL	casing od	4.500	inches	9148.080	9475.330
RAL	casing wt	11.600	lbm/ft	9148.080	9475.330
RAL	FB Start Far	291.900	usec	9148.080	9475.330
RAL	FB Start Near	180.000	usec	9148.080	9475.330
RAL	FB Start Radial	180.000	usec	9148.080	9475.330
RAL	FB Thresh Far	10.000	mv	9148.080	9475.330
RAL	FB Thresh Near	4.000	mv	9148.080	9475.330
RAL	FB Thresh Radial	4.000	mv	9148.080	9475.330
RAL	Fluid Travel Time	200.000	usec/ft	9148.080	9475.235

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-11.360	AFAR	SIG	TT5			
2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

Created by : RAL, v4.8.008
Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY
Well : AP 424-17-695
File Name : d:\welldata\wpx\ap 424-17-695\ral424\repeat.xtf
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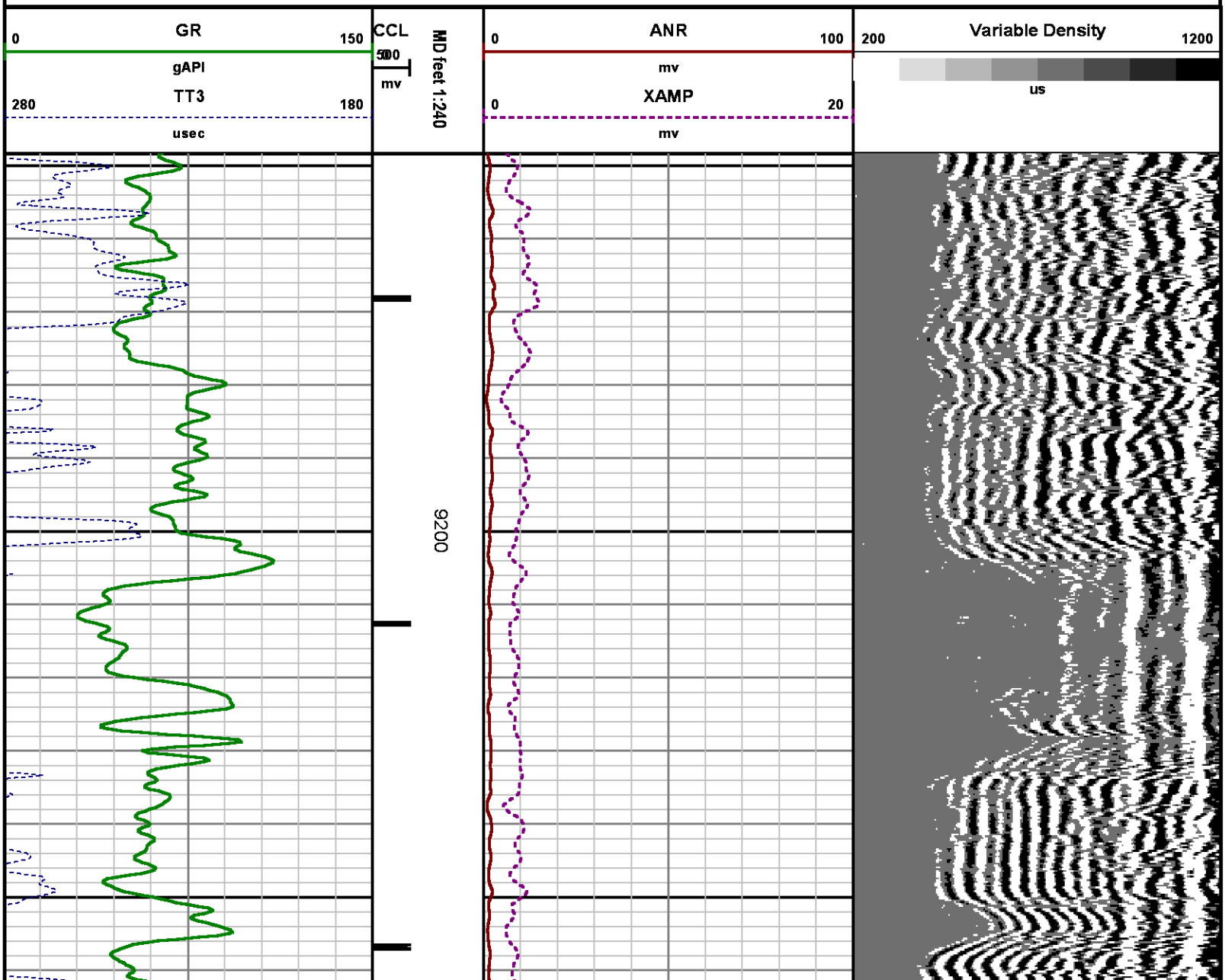

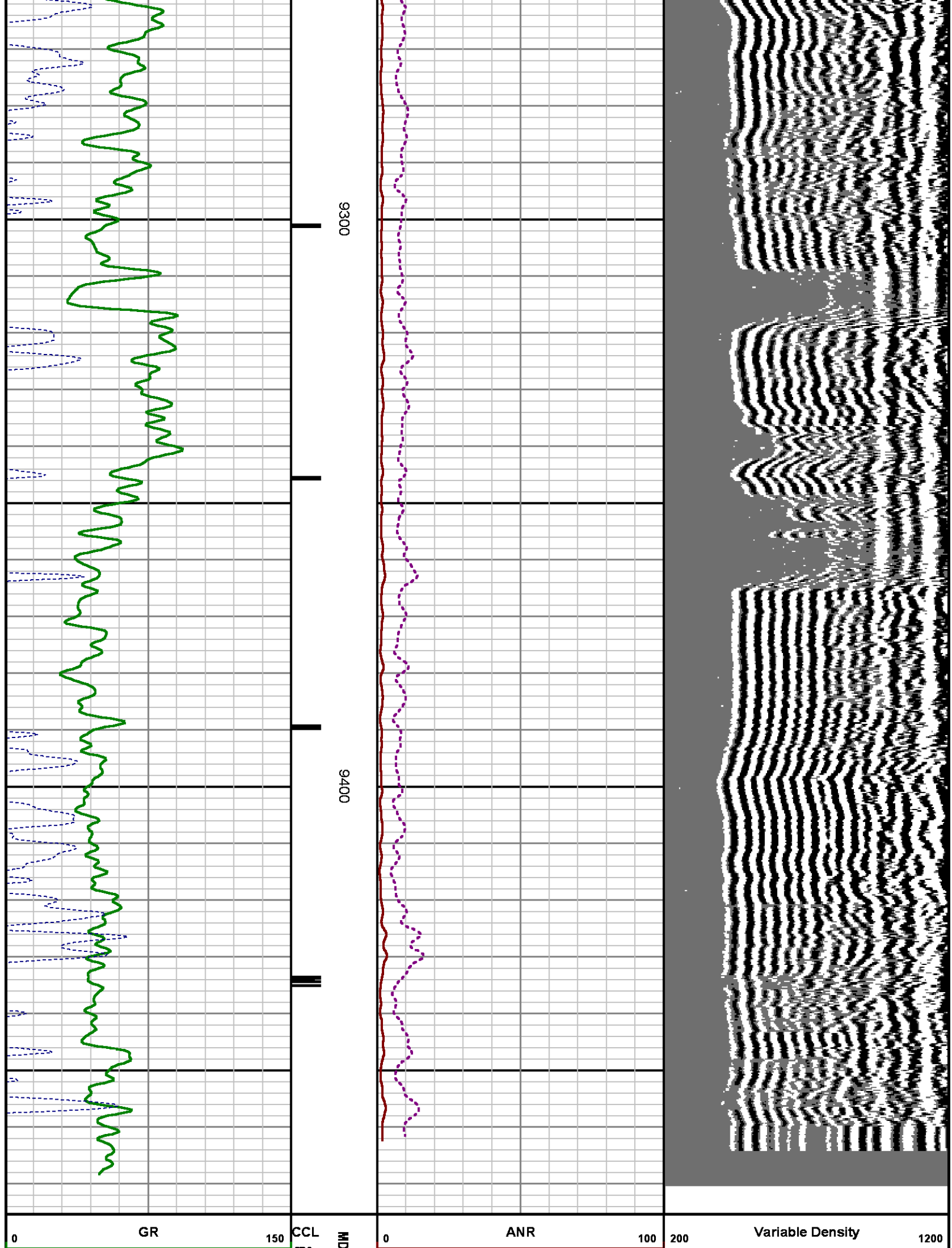
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9400
0
GR
150
CCL
MD
0
ANR
100
200
Variable Density
1200

CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\456OCT11_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Oct 11 11:00:05 2014 **TOOL SERIES:** 1426XA **ASSET:** 456 **SEQ:** OCT11

Tool Delay [usec]	Tank OD in	Tank Wt lbm/ft	Tank ID in
-50.00	5.50	15.50	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	-0.335	100.00	0.26
3 Ft. Receiver	217	216	30	166	25	1.024	100.00	0.26
5 Ft. Receiver	327	325	30	247	25	0.439	150.00	0.29
Radial #1	219	216	30	166	25	1.557	100.00	0.26
Radial #2	217	216	30	166	25	1.250	100.00	0.26
Radial #3	217	216	30	166	25	1.569	100.00	0.26
Radial #4	215	216	30	166	25	1.400	100.00	0.26
Radial #5	215	216	30	166	25	1.126	100.00	0.26
Radial #6	215	216	30	166	25	0.681	100.00	0.26
Radial #7	217	216	30	166	25	0.987	100.00	0.26
Radial #8	219	216	30	166	25	1.111	100.00	0.26

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\456OCT11_fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Oct 11 11:01:50 2014 **TOOL SERIES:** 1426XA **ASSET:** 456 **SEQ:** OCT11

Tool Delay [usec]	Casing OD in	Casing Wt lbm/ft	Casing ID in
-50.00	4.50	11.60	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	0.007	0.000	1.00	100.000
3 Ft. Receiver	195	25	2.092			
5 Ft. Receiver	305	25	3.782			
Radial #1	195	25	1.983			
Radial #2	195	25	1.929			
Radial #3	195	25	1.937			
Radial #4	195	25	2.151			
Radial #5	195	25	2.183			
Radial #6	195	25	2.139			
Radial #7	195	25	2.092			
Radial #8	195	25	1.842			

GAMMA RAY

Calibration File: C:\case\calver\GR\503O8.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Oct 08 09:03:02 2014 **TOOL SERIES:** 2459XA **ASSET:** 503 **SEQ:** O8

Calibrator #		Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K	WA612	110.22	393.29	0.654	72.04	257.04	185.00

Verification File: C:\case\calver\GR\503O8.VP

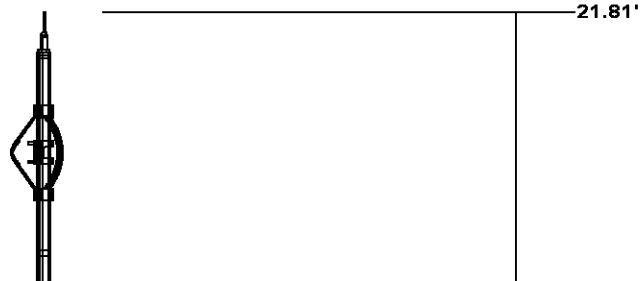
PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Wed Oct 08 09:04:12 2014 **TOOL SERIES:** 2459XA **ASSET:** 503 **SEQ:** O8

Calibrator #		Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K	WA612	101.07	384.62	0.654	66.05	251.37	185.32

TOOL DIAGRAM

OTA SHORT CABLE HEAD

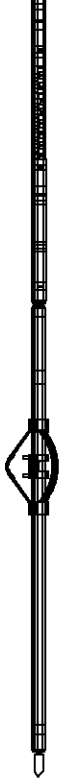


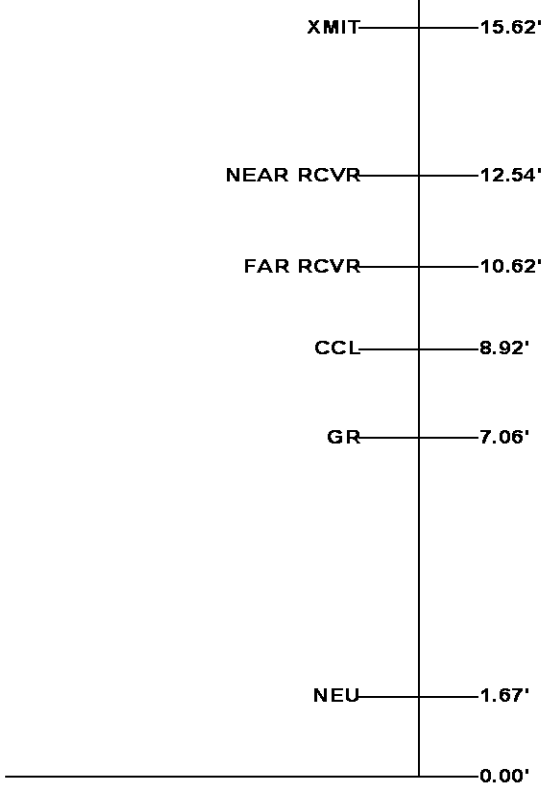
PROBE 2 3/4 DUAL RECEIVER RADII

Series	1426XA
Mnemonic	PROB
Diameter	2.75"

Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

Probe GR/CCL/NEU	
Series	2459XA
Mnemonic	PROB
Diameter	2.75"
Length	9.42'
Measure Point	1.21' NEU
Measure Point	6.60' GR
Measure Point	8.46' CCL





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

BAKER HUGHES

Baker Atlas

CASE

Company	WPX ENERGY		File No: CH090082
Well	AP 424-17-695		API No: 05045213810000
Field	PARACHUTE		
County	GARFIELD	State COLORADO	

Location

SHL: 32' FNL & 2488' FWL (20 6S 95W)

BHL: 519' FSL & 2243' FWL (17 6S 95W)

SEC 17 TWP 6S RGE 95W

Elevations

KB	6935 ft	17 6S 95W
DF		AP 21-20-695 PAD
GL	6909 ft	NABORS 573