BAKER HUGHES

Baker Atlas

RADIAL ANALYSIS BOND LOG

File No:	CH071539
API No:	05045218230000
Company	WPX ENERGY
Well	GOLDSBOROUGH PA 312-11
Field	PARACHUTE
County	GARFIELD
State	COLORADO

11 7S 95W

PA 22-11

CYCLONE 17

Location

SHL: 2412' FNL & 2030' FWL SEC:11

BHL: 1749' FNL & 589' FWL SEC:11

SEC 11 TWP 7S RGE 95W

Other Services

RPM

Permanent Datum	G.L.	Elevation	6274 ft
Log Measured From	K.B.	26 ft	Above P. D.
Drill Measured From	KELLY BUSHING		

Elevations

KB 6300 ft

DF

GL 6274 ft

Date		28/APR/13		
Run		ONE		
Service Order		575115		
Depth Driller		7918 ft		
Depth Logger		7905 ft		
Bottom Logged Interval		7895 ft		
Top Logged Interval		26 ft		
Time Started		7:00		
Time Finished		10:30		
Operator Rig Time		3.5 HRS		
Type of Fluid in Hole		WATER		
Fluid Density		N/A		
Salinity		N/A		
Fluid Level		64 ft		
Logged Cement Top		N/A		
Wellhead Pressure		0 psi		
Maximum Hole Deviation		N/A		
Nominal Logging Speed		45 fpm		
Maximum Recorded Temperature		215 degF		
Reference Log		BAKER HUGHES HDIL LOG		
Reference Log Date		22/APR/13		
Equipment No.	Location	4271	GRAND JUNCTION	9721	GRAND JUNCTION
Recorded By		M. KINSEL		
Witnessed By		MR. 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.

Casing Record

Size	Weight	Grade	From	To
9.625 in	N/A	N/A	0 ft	882 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	7918 ft

Borehole Record

Bit Size	From	To
13.5 in	0 ft	902 ft
8.75 in	0 ft	8018 ft

Remarks

ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH A BAKER HUGHES HDIL LOG DATED 22 APRIL 2013 AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 2 FEET DOWN. DEPTH SHIFTING PROCESS CREATES THE POTENTIAL FOR COLLAR LENGTHS TO VARY FROM OTHER CASED HOLE LOGS WITHOUT A GAMMA RAY REFERENCE.

SHORT JOINT: 4685' - 4689'

BHT: 215 degF

LOG DONE WITH 0 PSI ON WELLHEAD

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10214106	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	305.562	usec	25.656	7919.000
RAL	Amp Gate Start Near	198.031	usec	25.656	7919.000
RAL	Amp Gate Start Radial	198.031	usec	25.656	7919.000
RAL	Amp Gate Width Far	25.000	usec	25.656	7919.000
RAL	Amp Gate Width Near	25.000	usec	25.656	7919.000
RAL	Amp Gate Width Radial	25.000	usec	25.656	7919.000
RAL	casing od	4.500	inches	25.656	7919.000
RAL	casing wt	11.600	lbm/ft	25.656	7919.000
RAL	FB Start Far	291.900	usec	25.656	7919.000
RAL	FB Start Near	175.391	usec	25.656	7919.000
RAL	FB Start Radial	175.391	usec	25.656	7919.000
RAL	FB Thresh Far	10.000	mv	25.656	7919.000
RAL	FB Thresh Near	4.000	mv	25.656	7919.000
RAL	FB Thresh Radial	4.000	mv	25.656	7919.000
RAL	Fluid Travel Time	200.000	usec/ft	25.656	7919.718

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 : GOLDSBOROUGH PA 312-11
File Name : d:\welldata\312cbl\main_rdrr.xtf
Mode : PlotMgr 5.4.504
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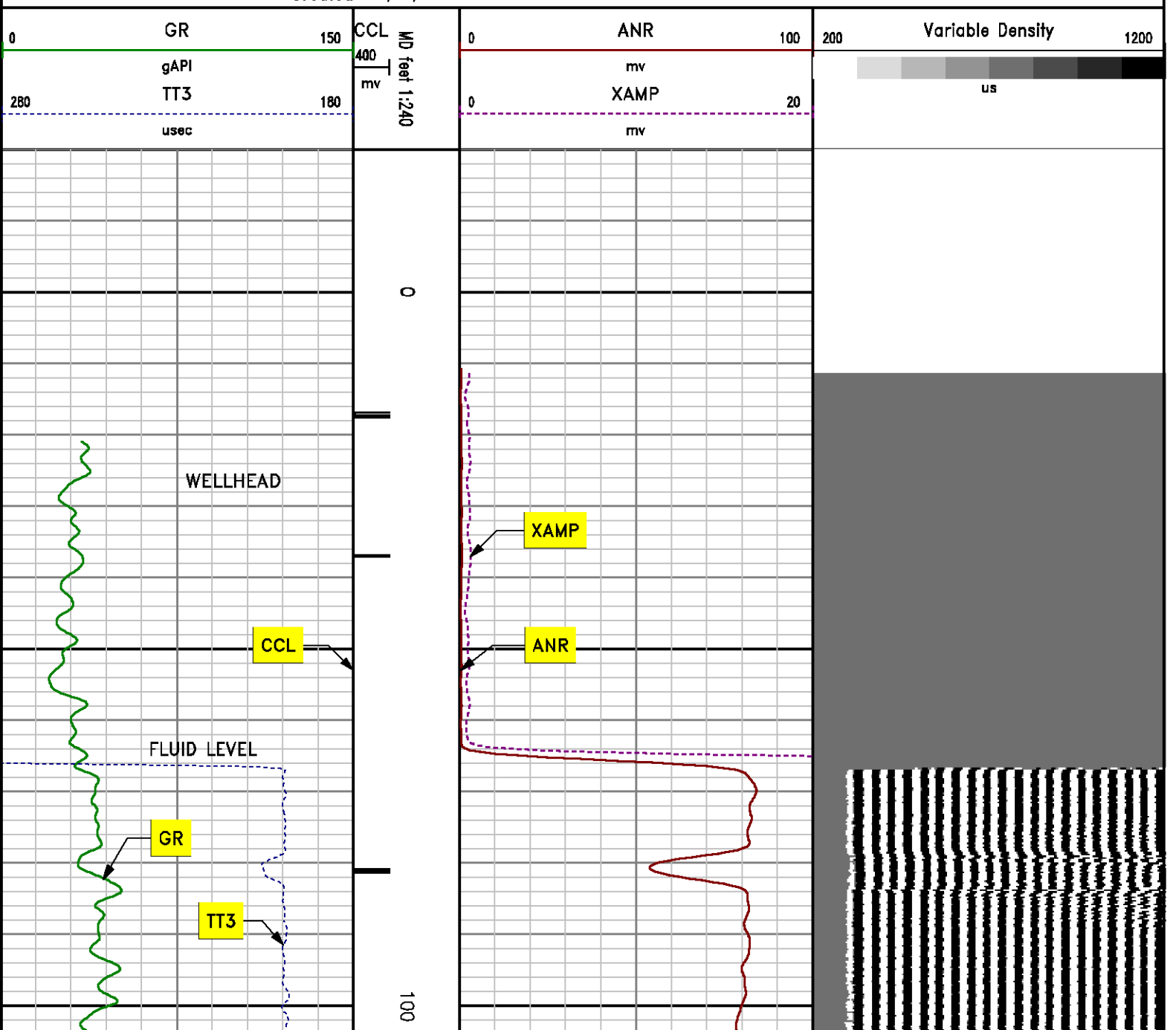

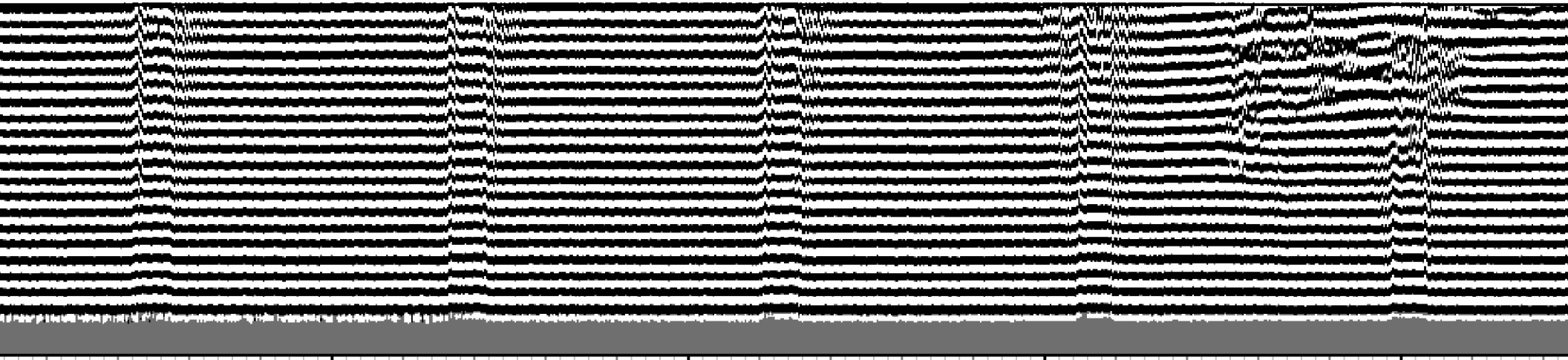

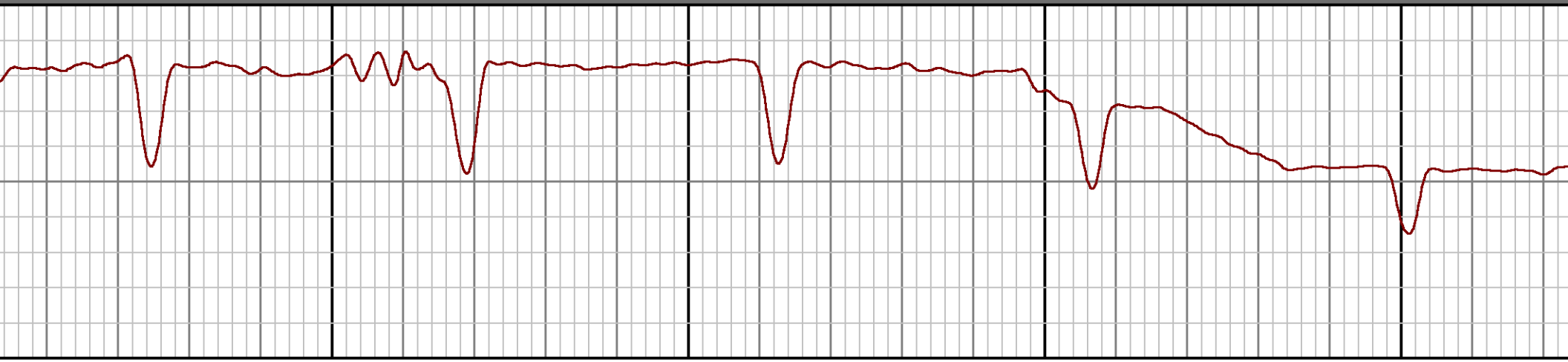

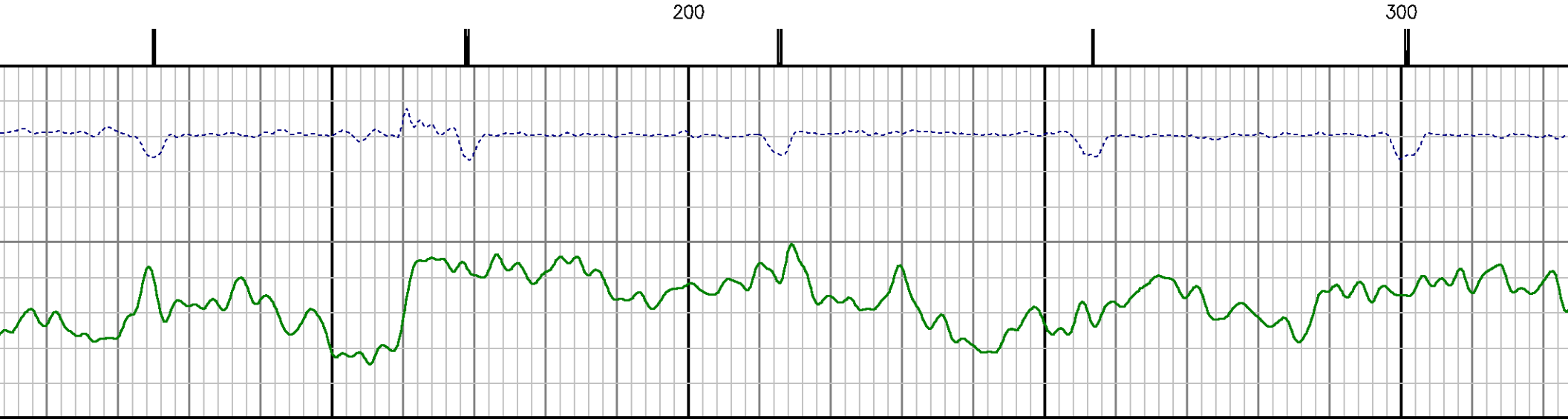
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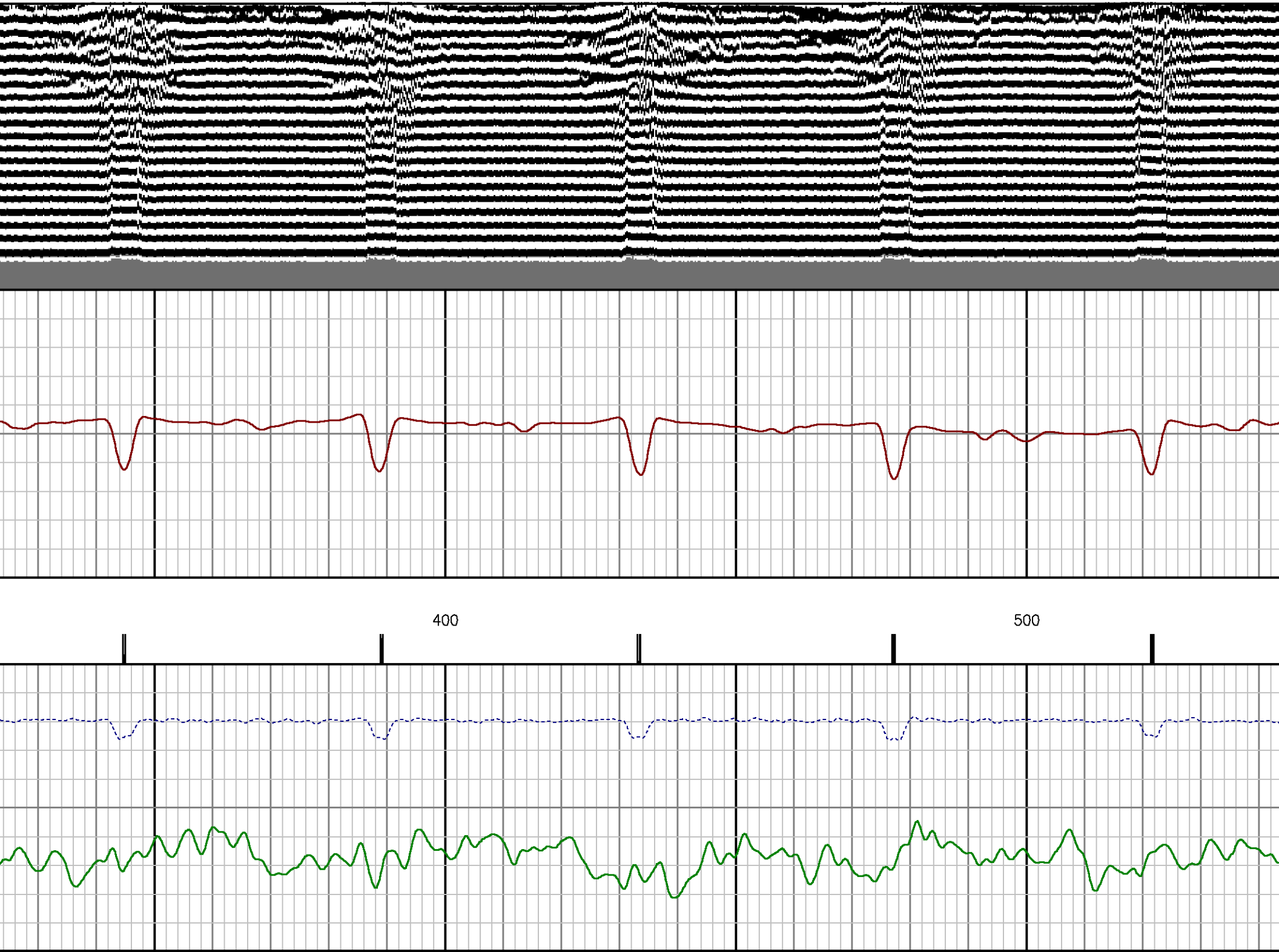
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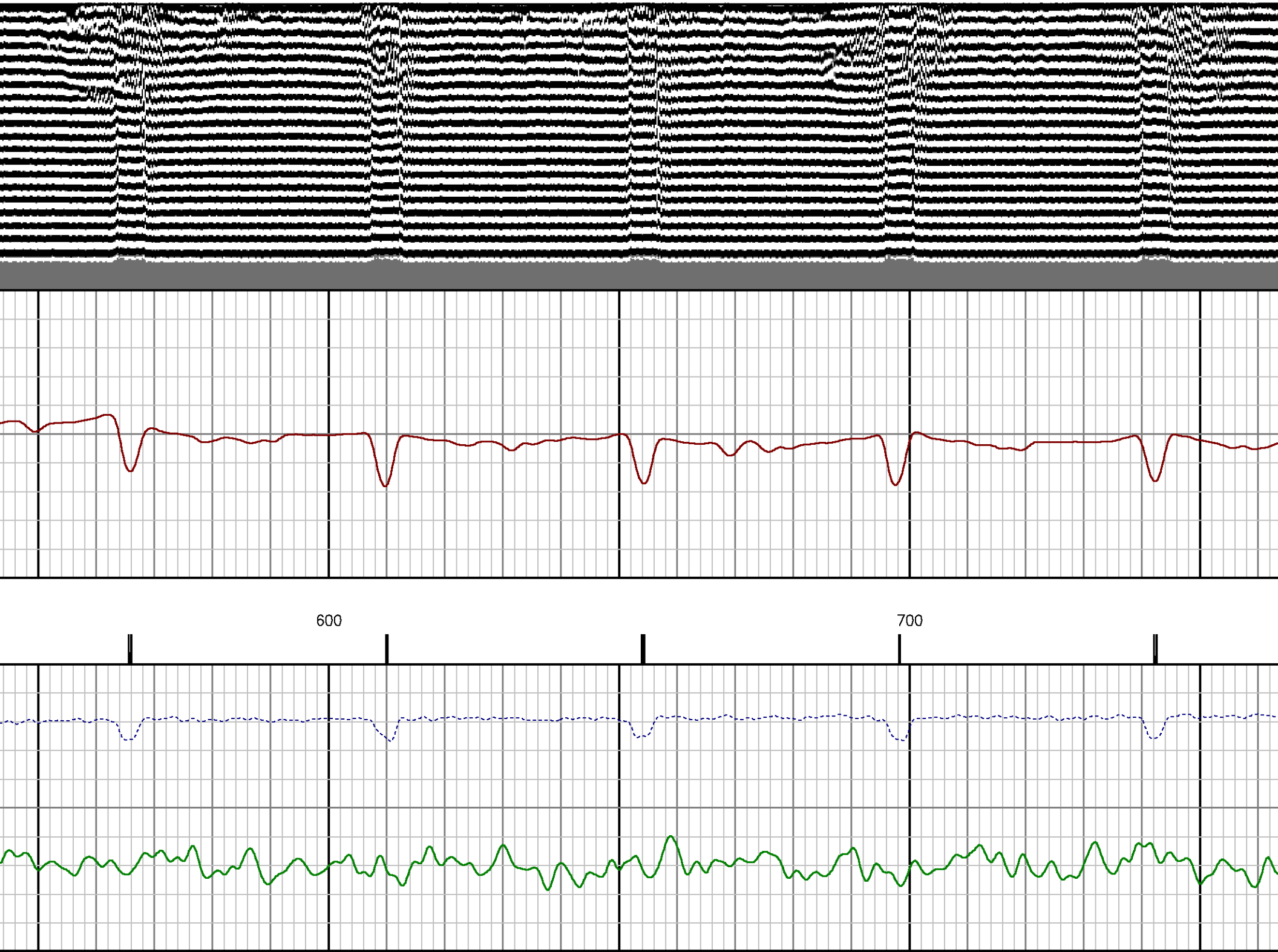
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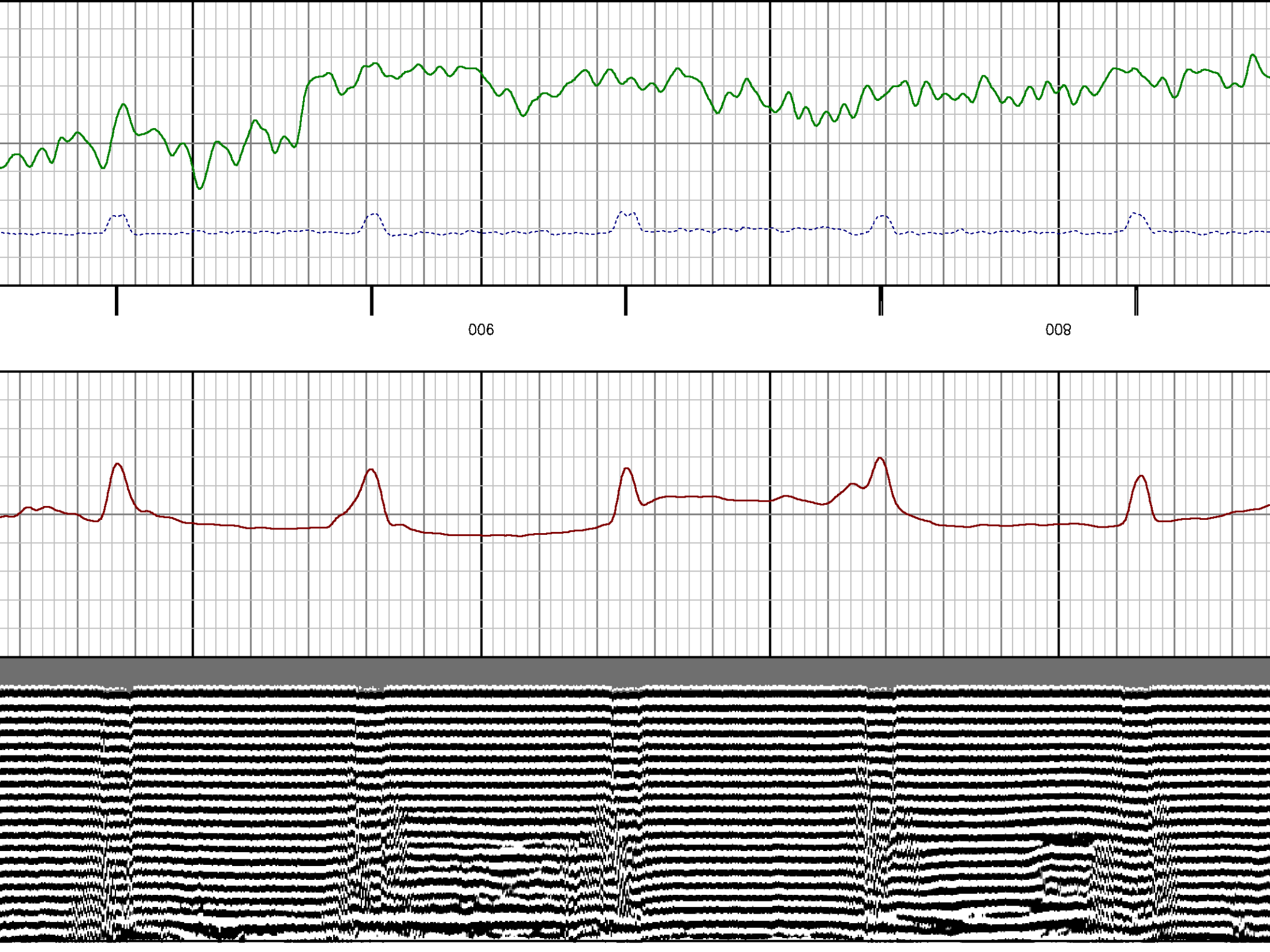
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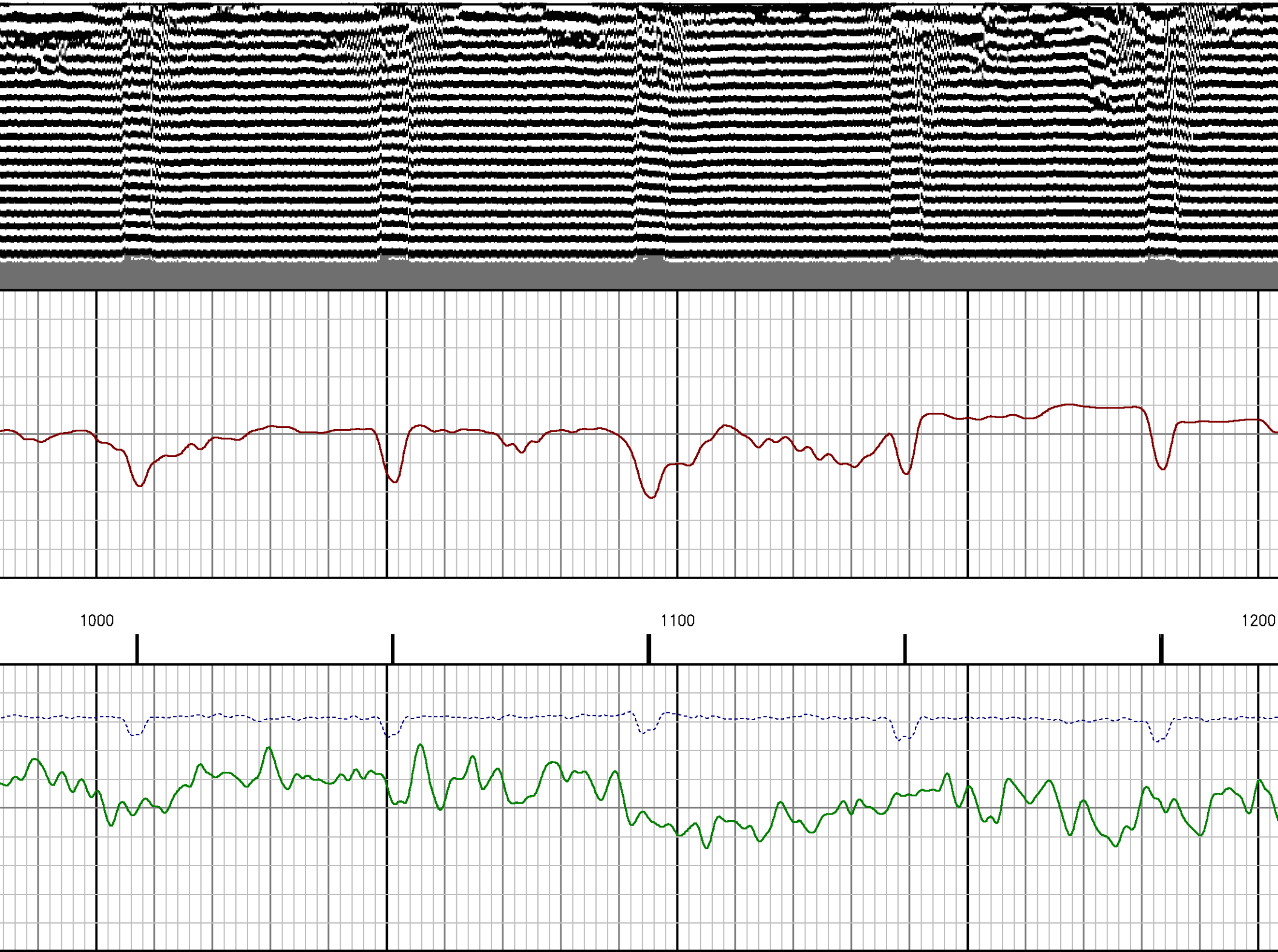
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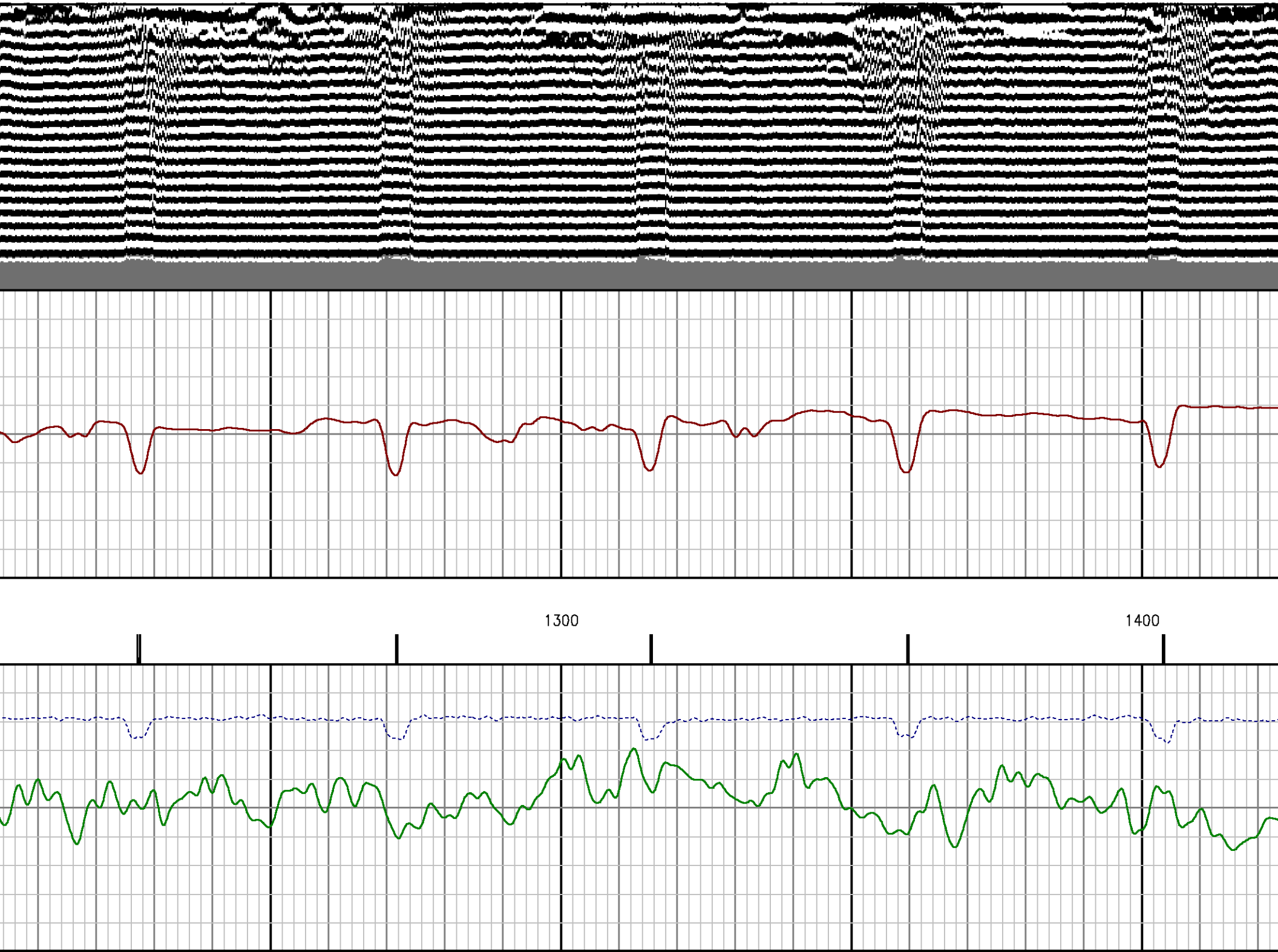
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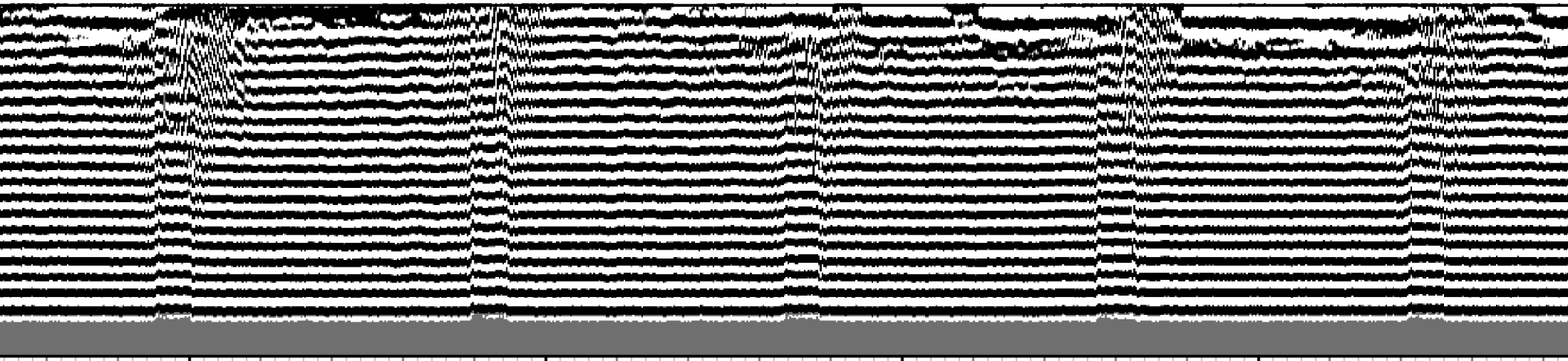

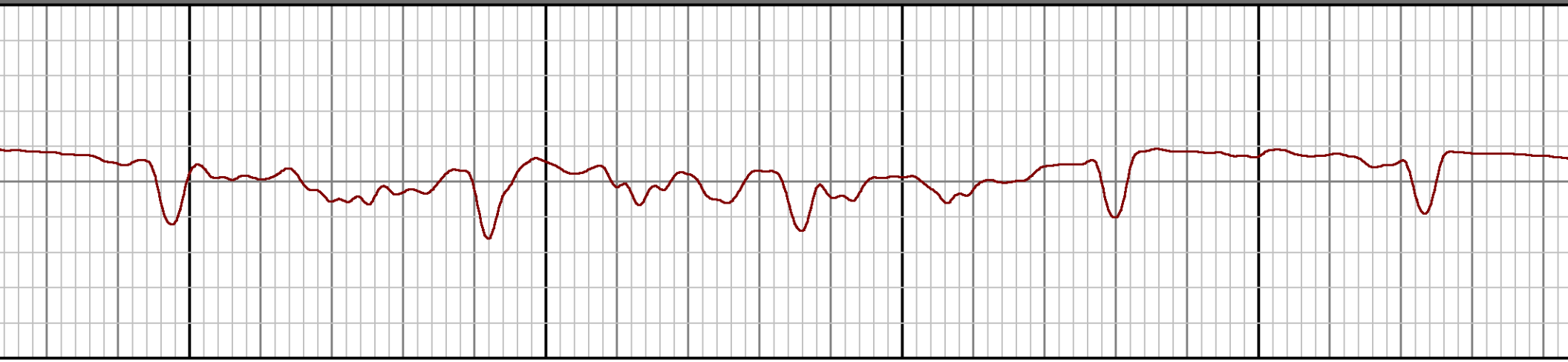

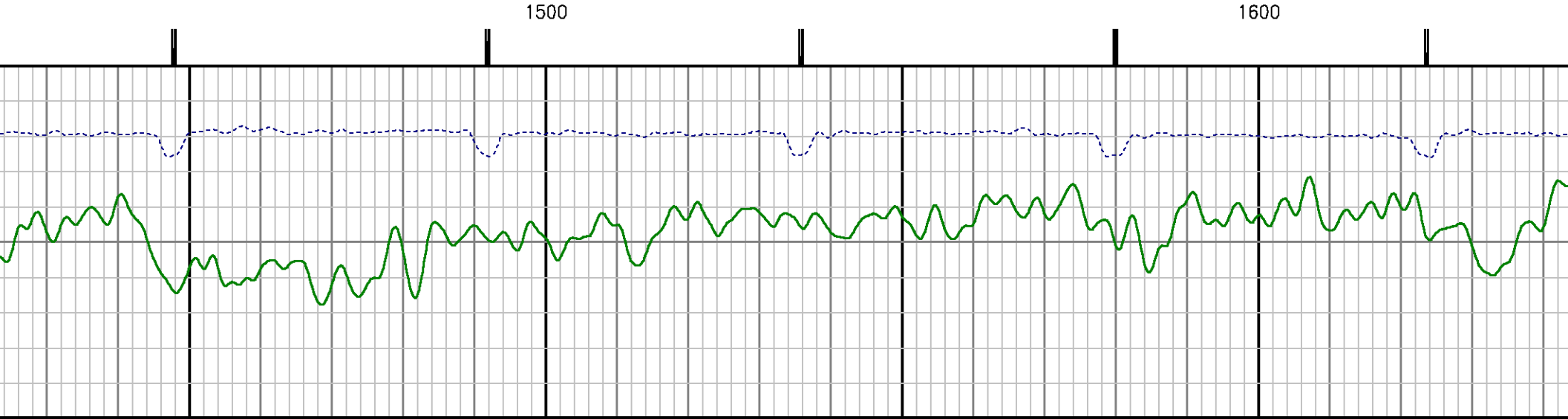
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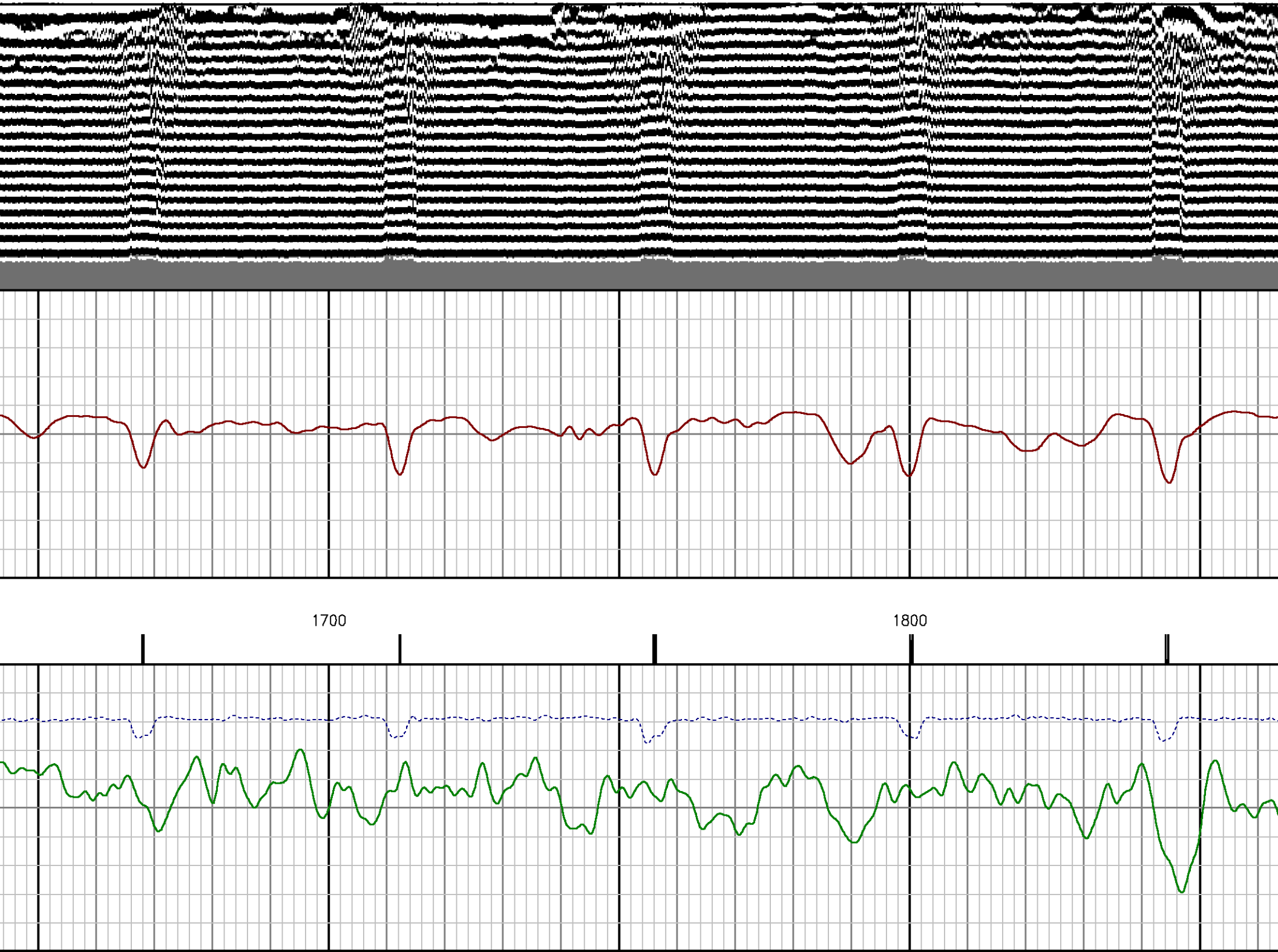
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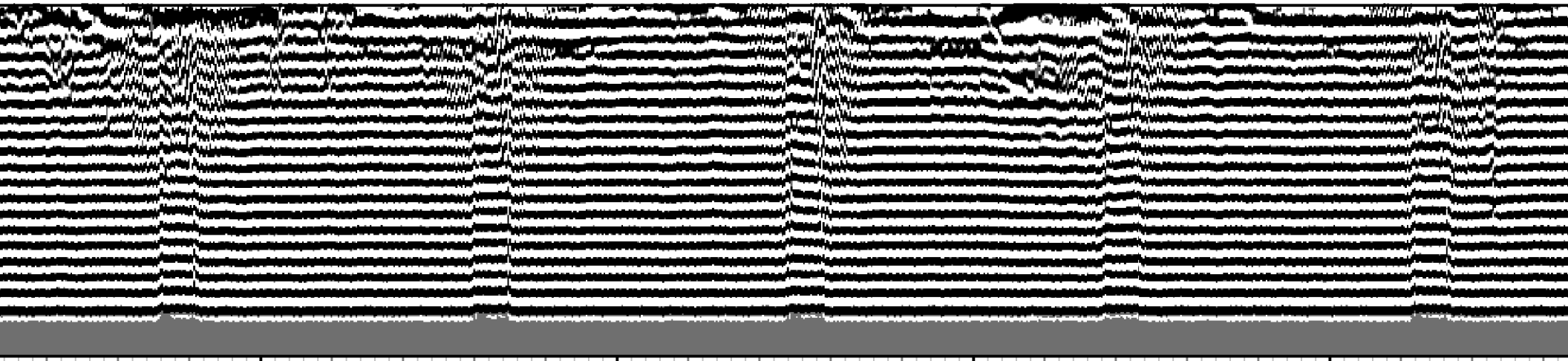

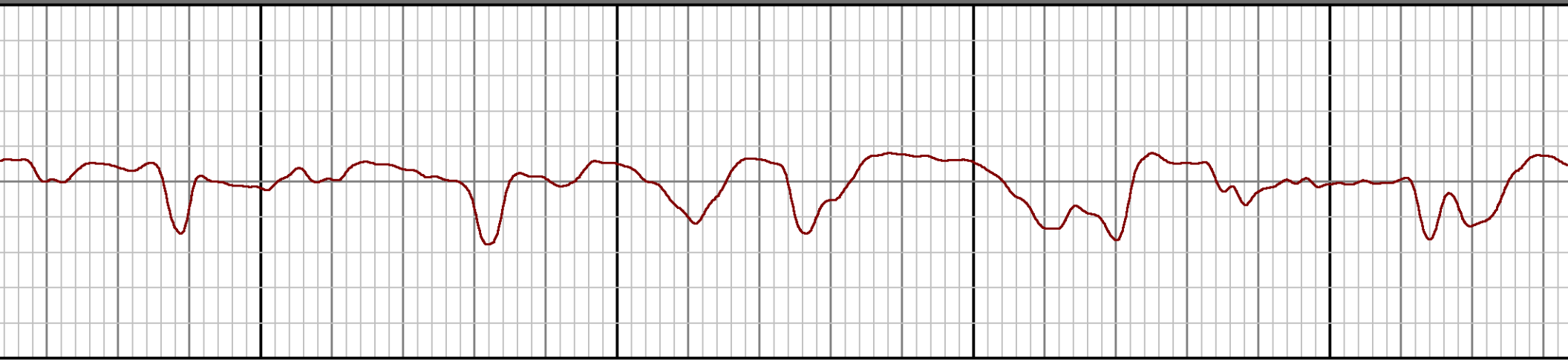

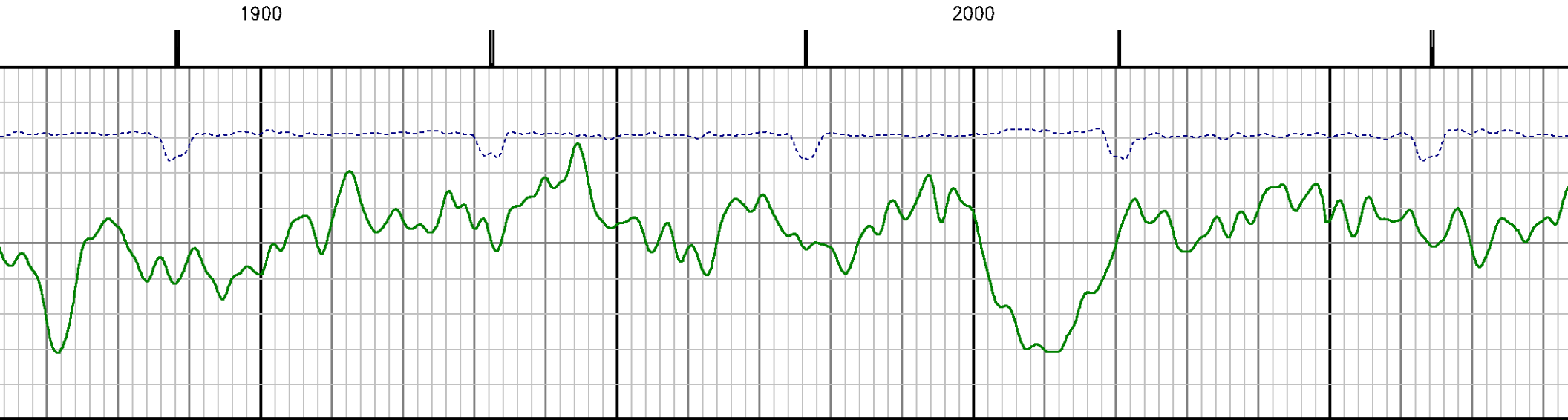
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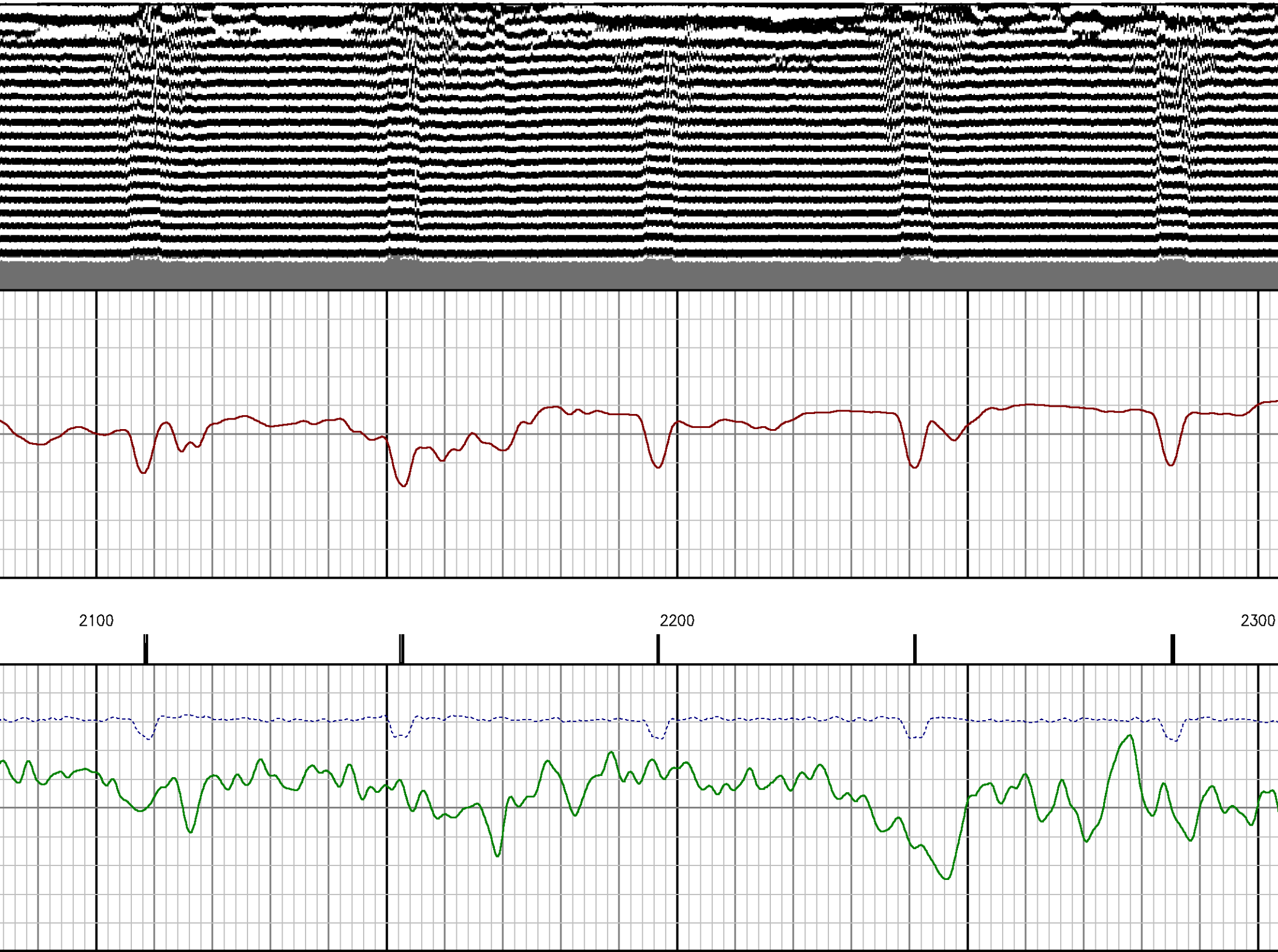
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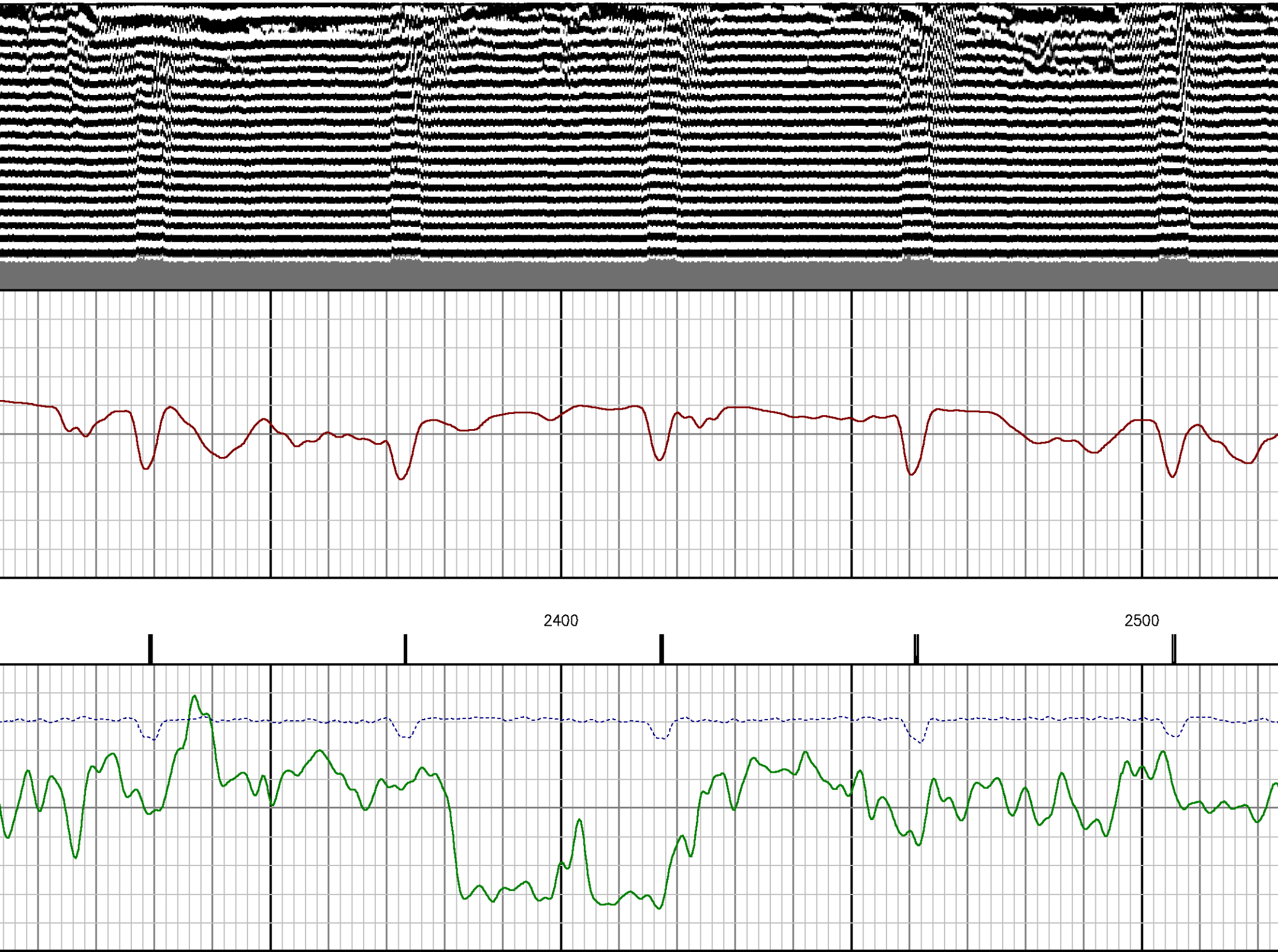
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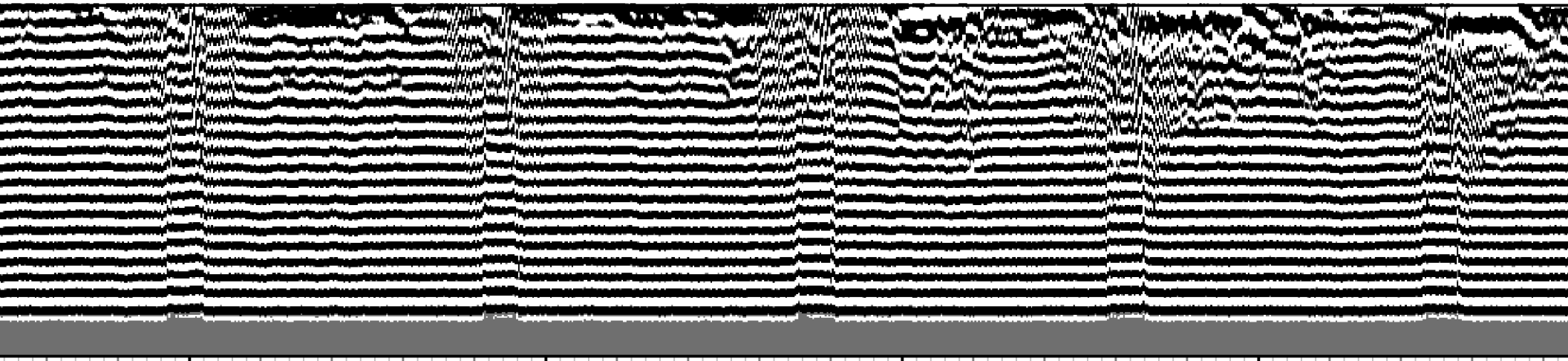

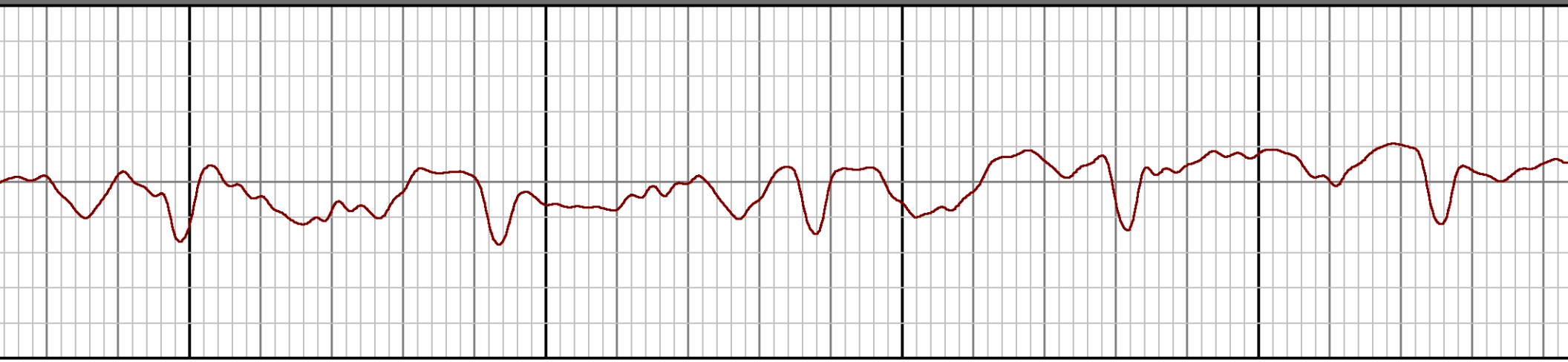

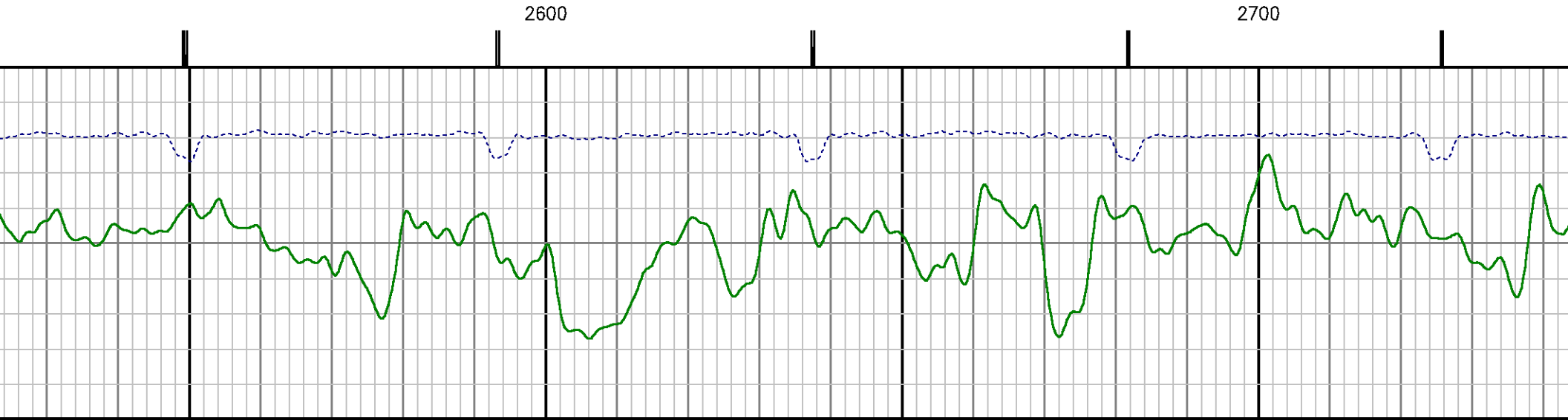
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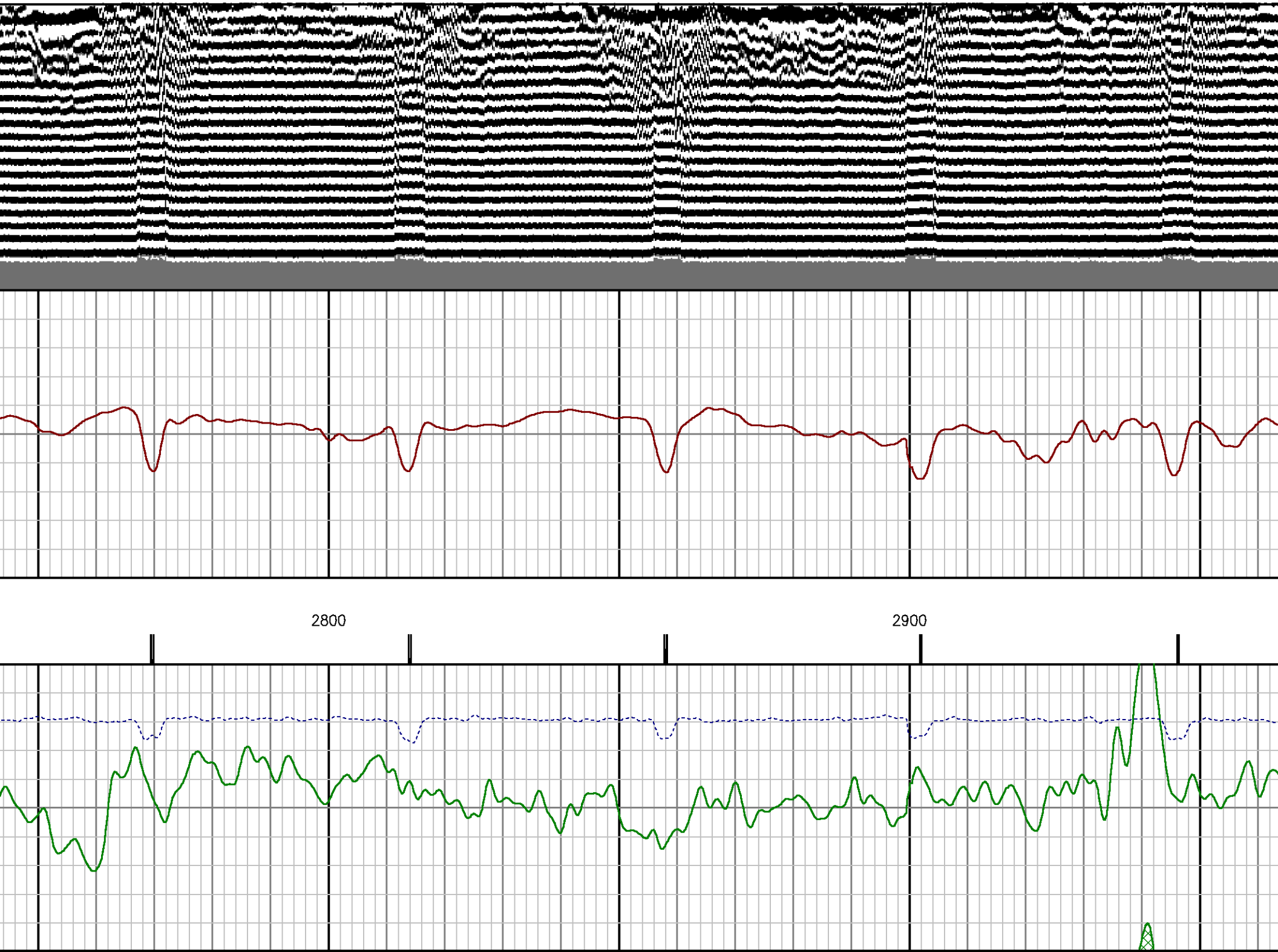
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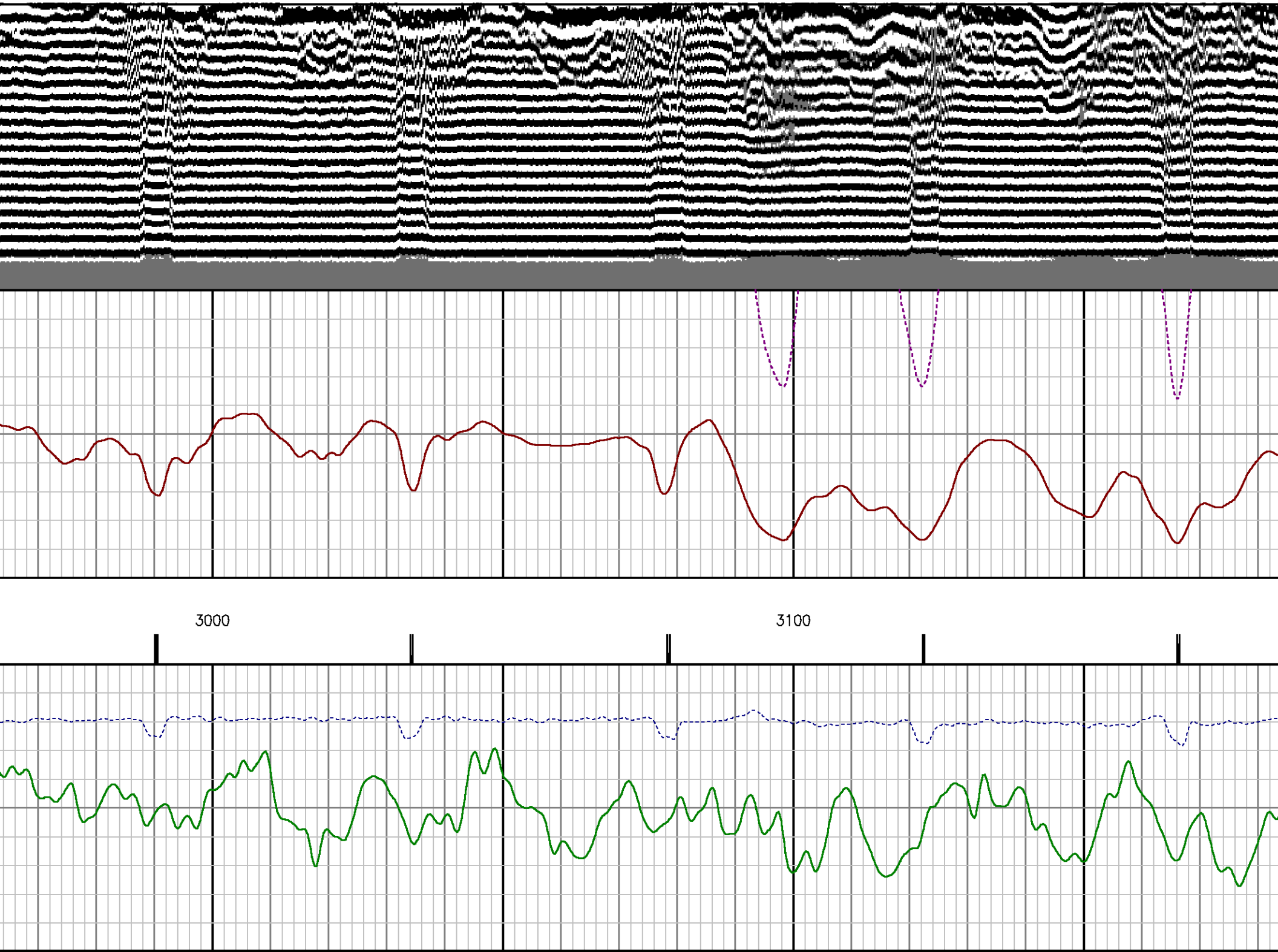
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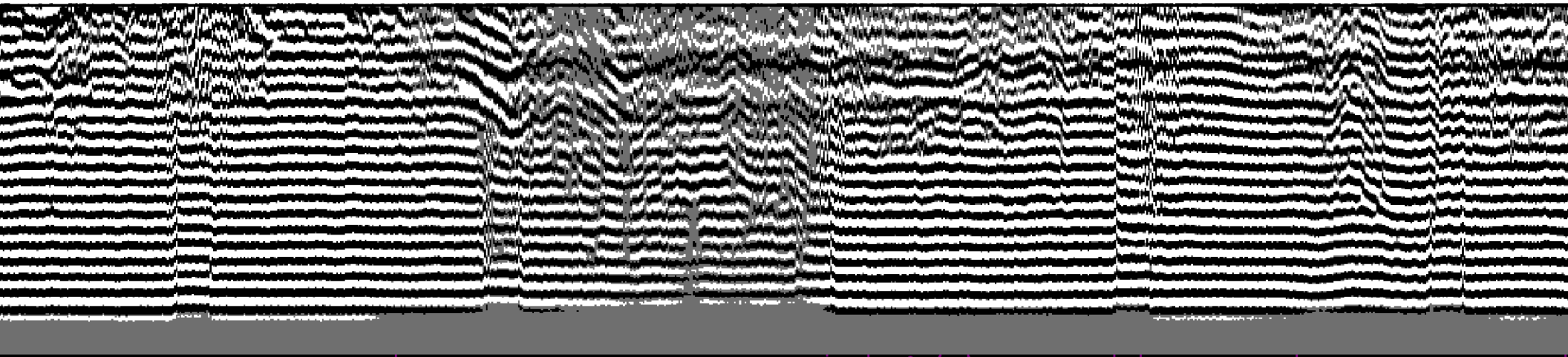

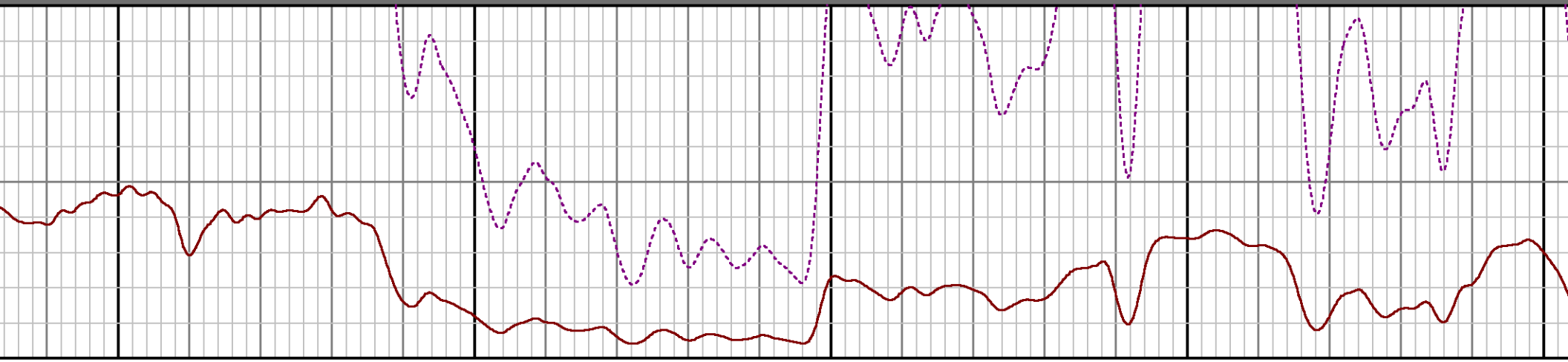

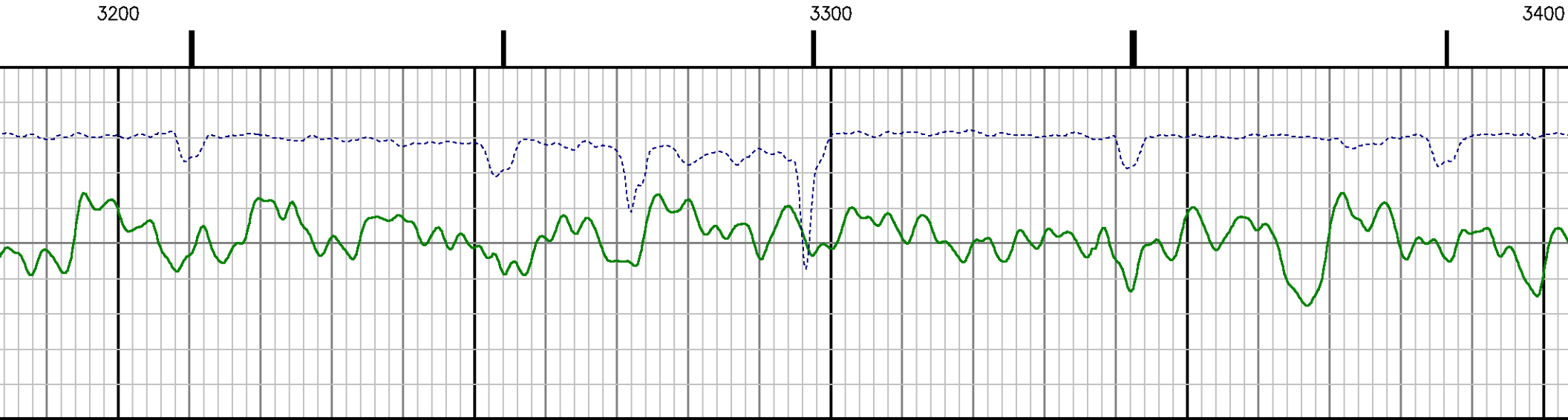
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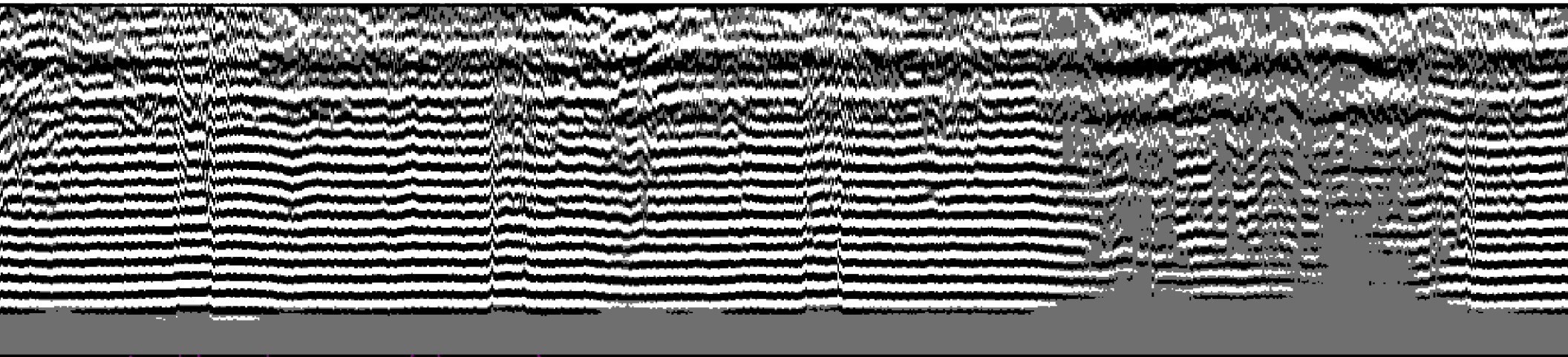

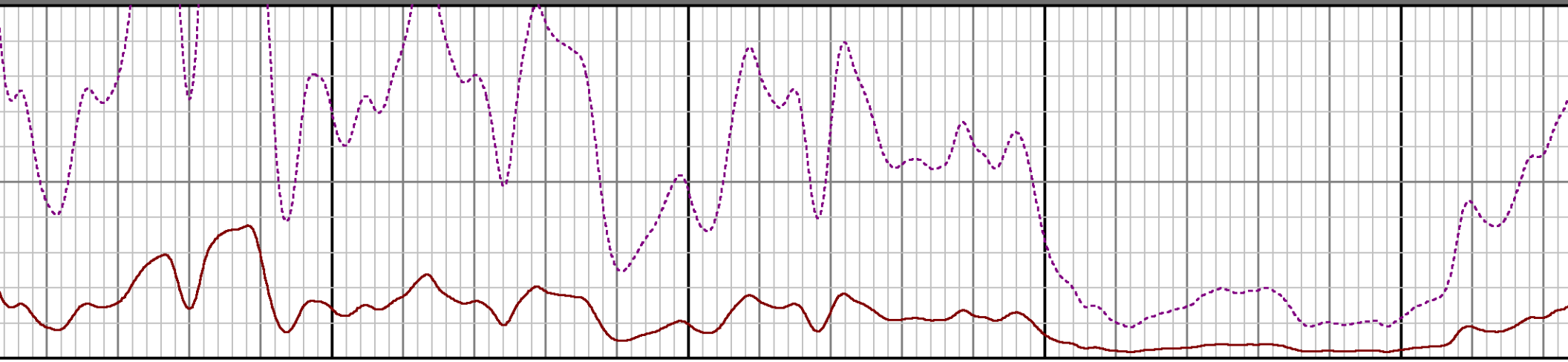

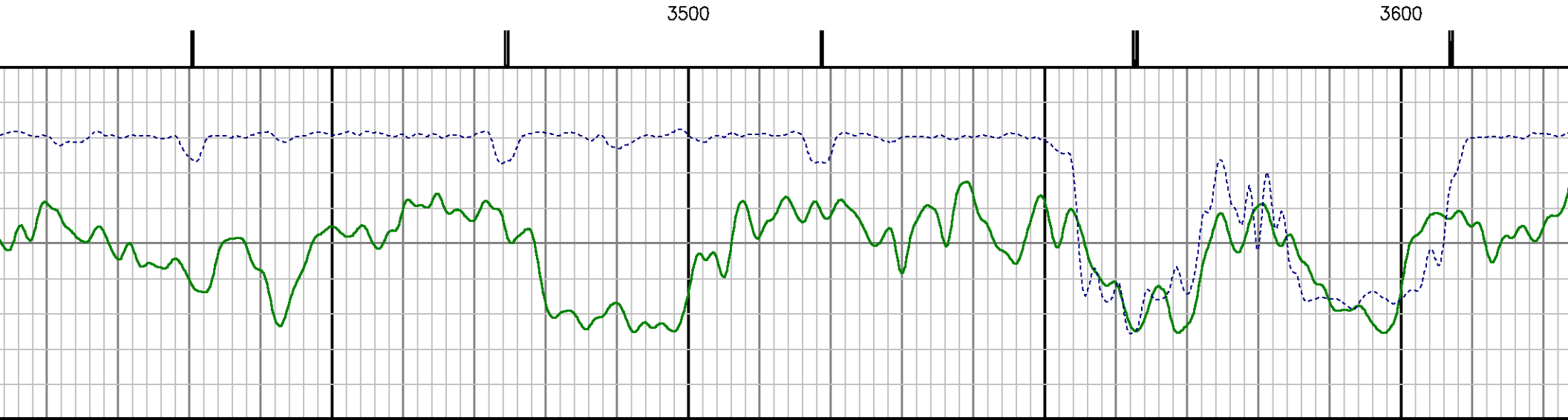
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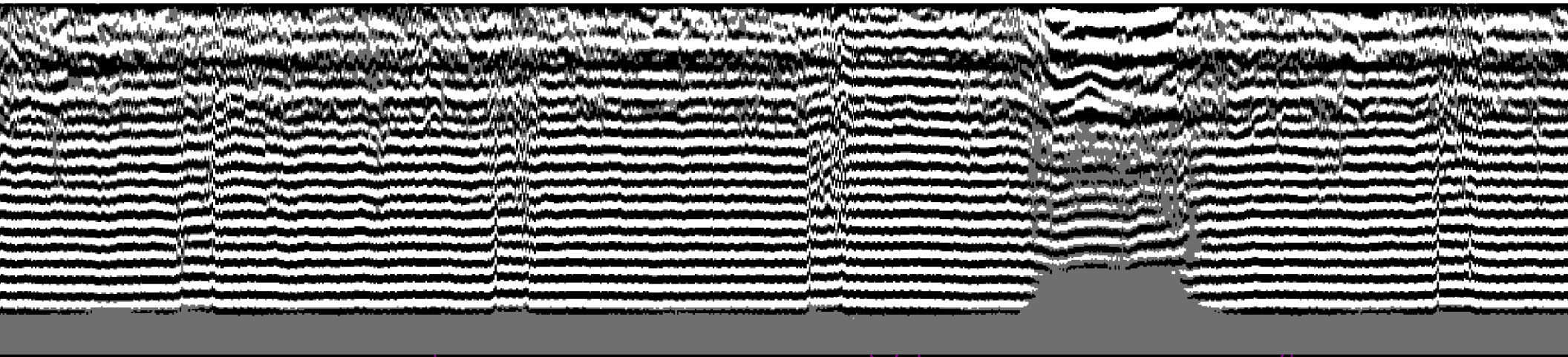

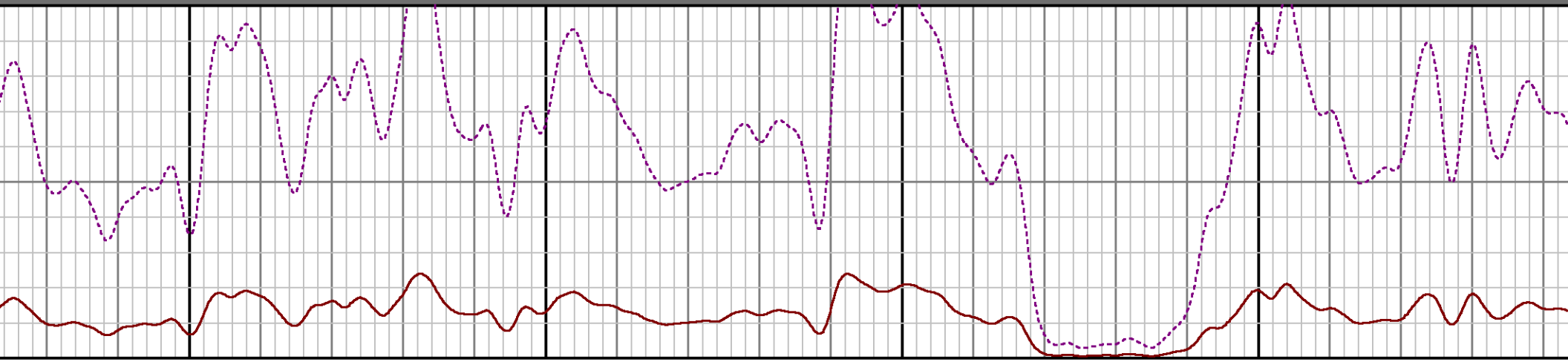

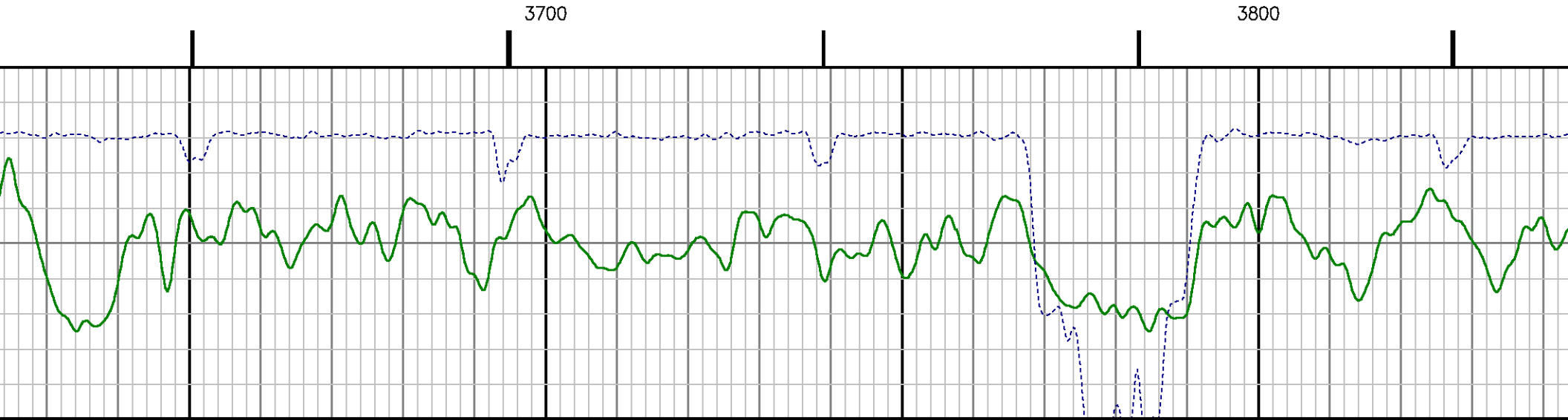
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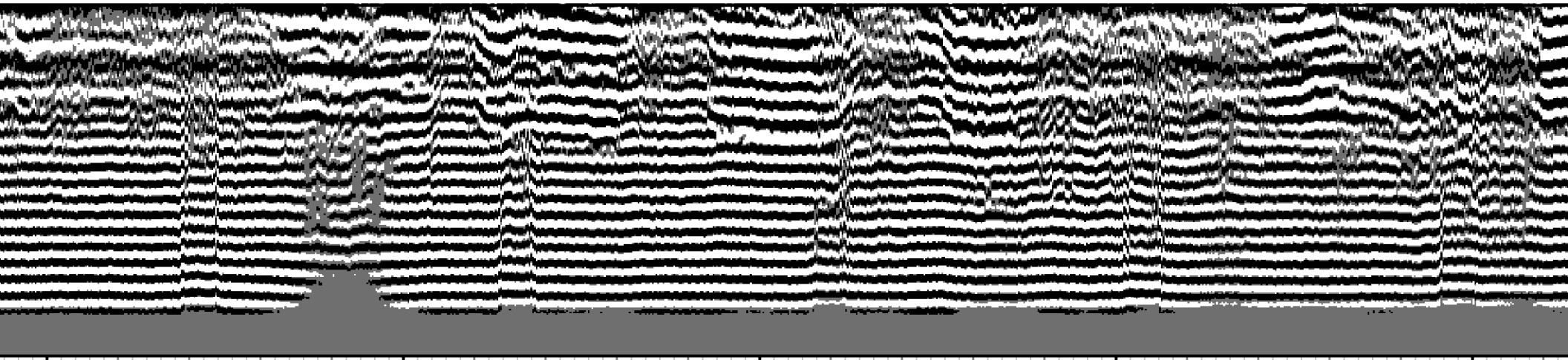

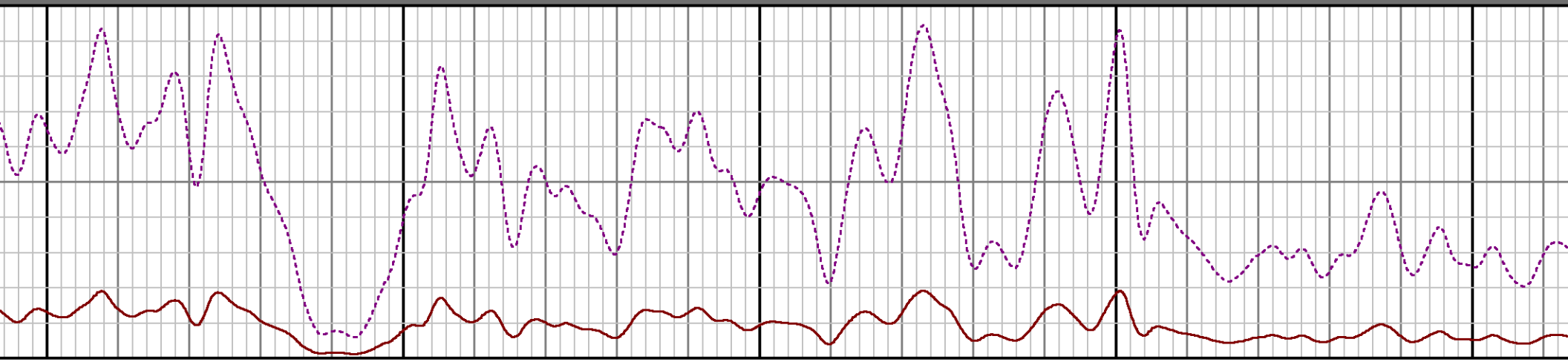

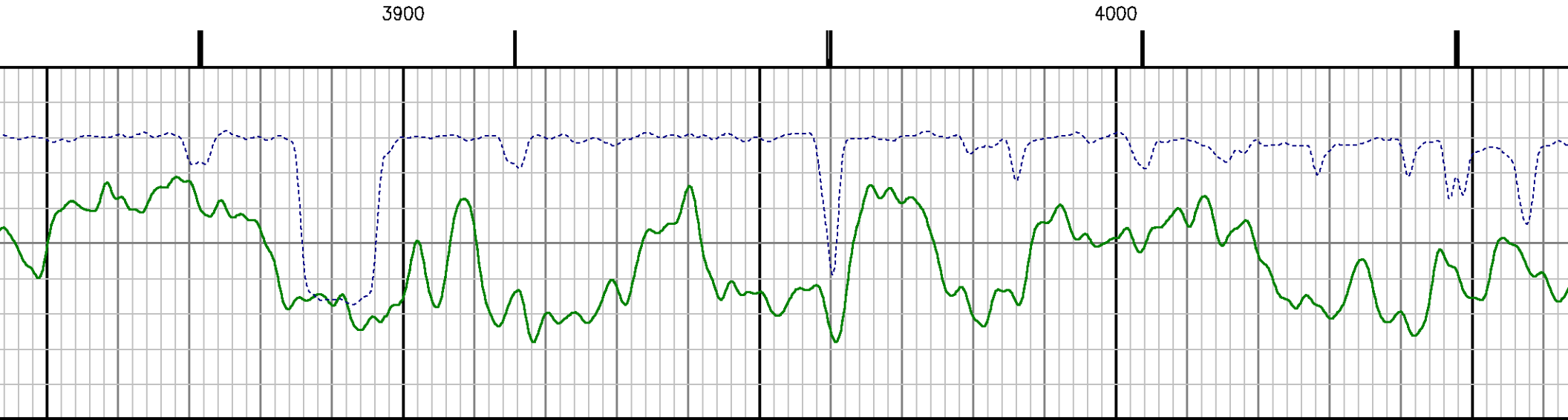
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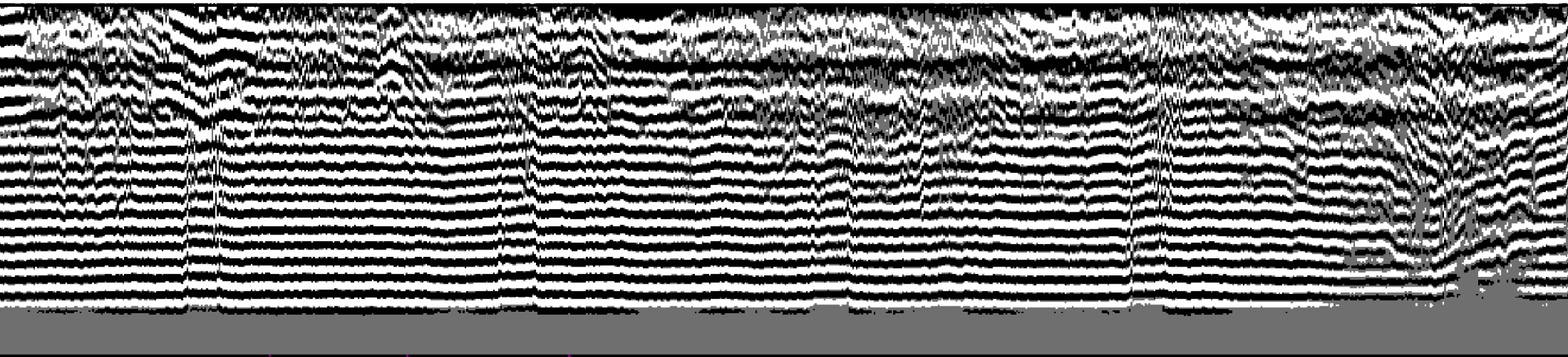

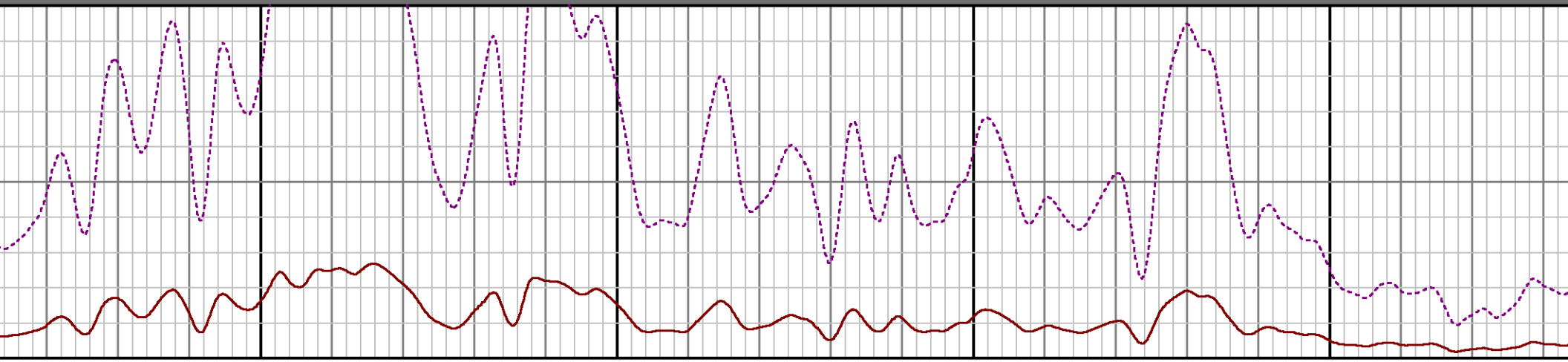

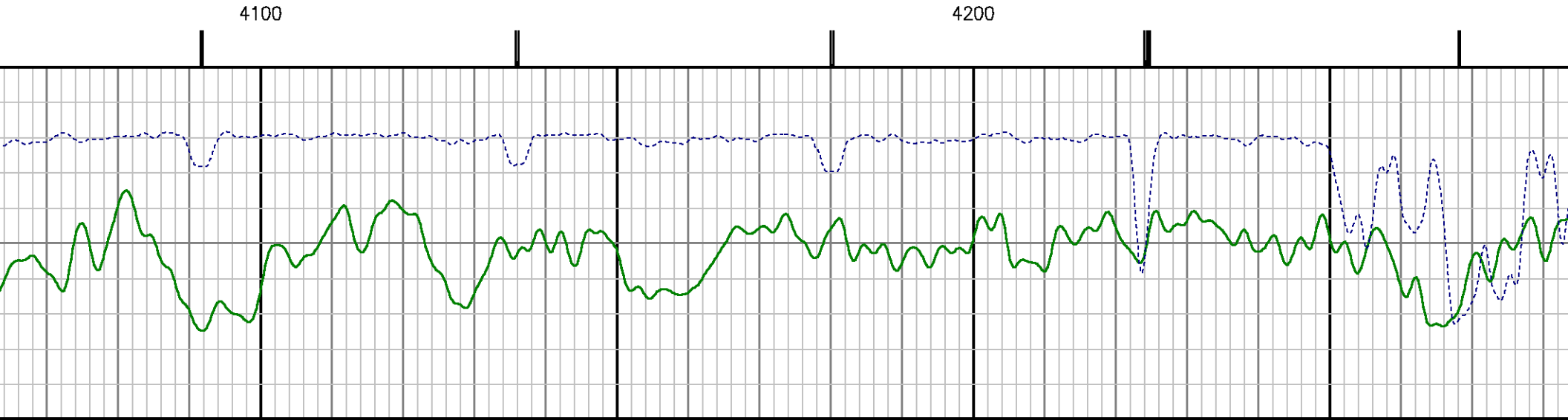
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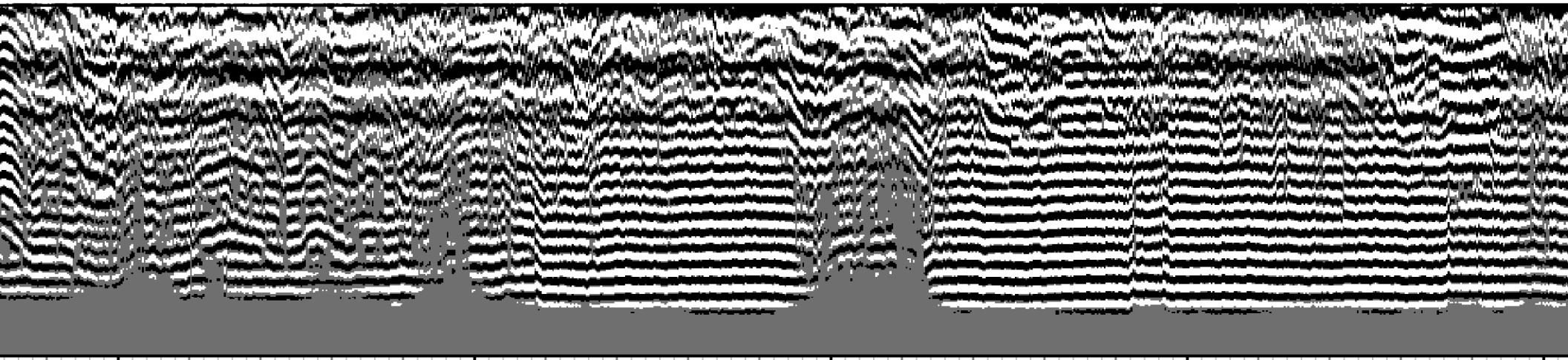

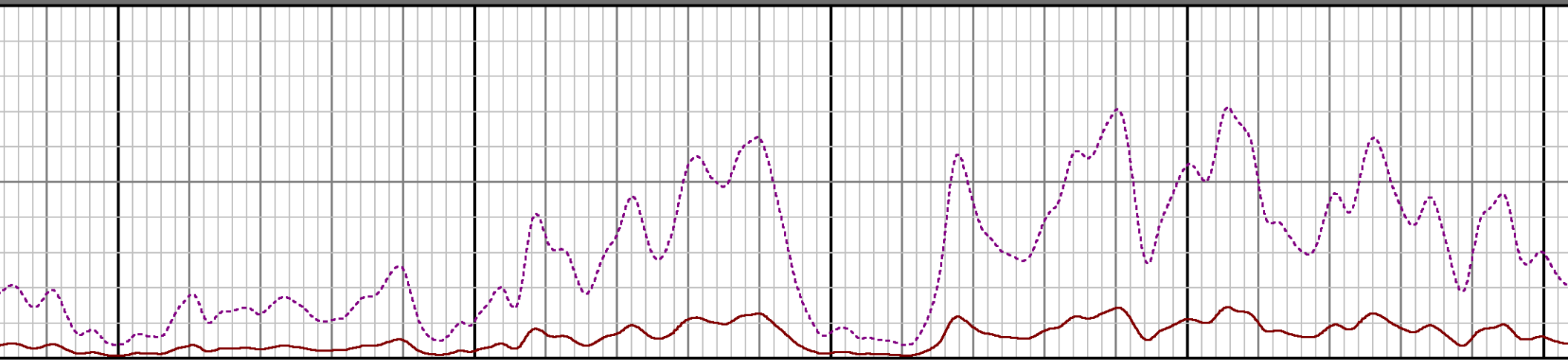

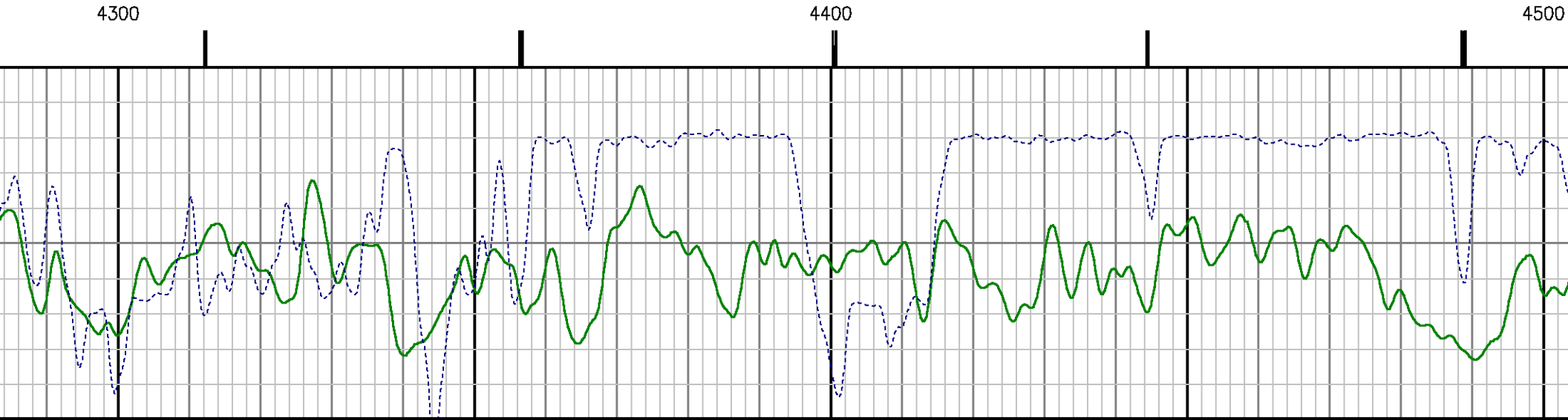
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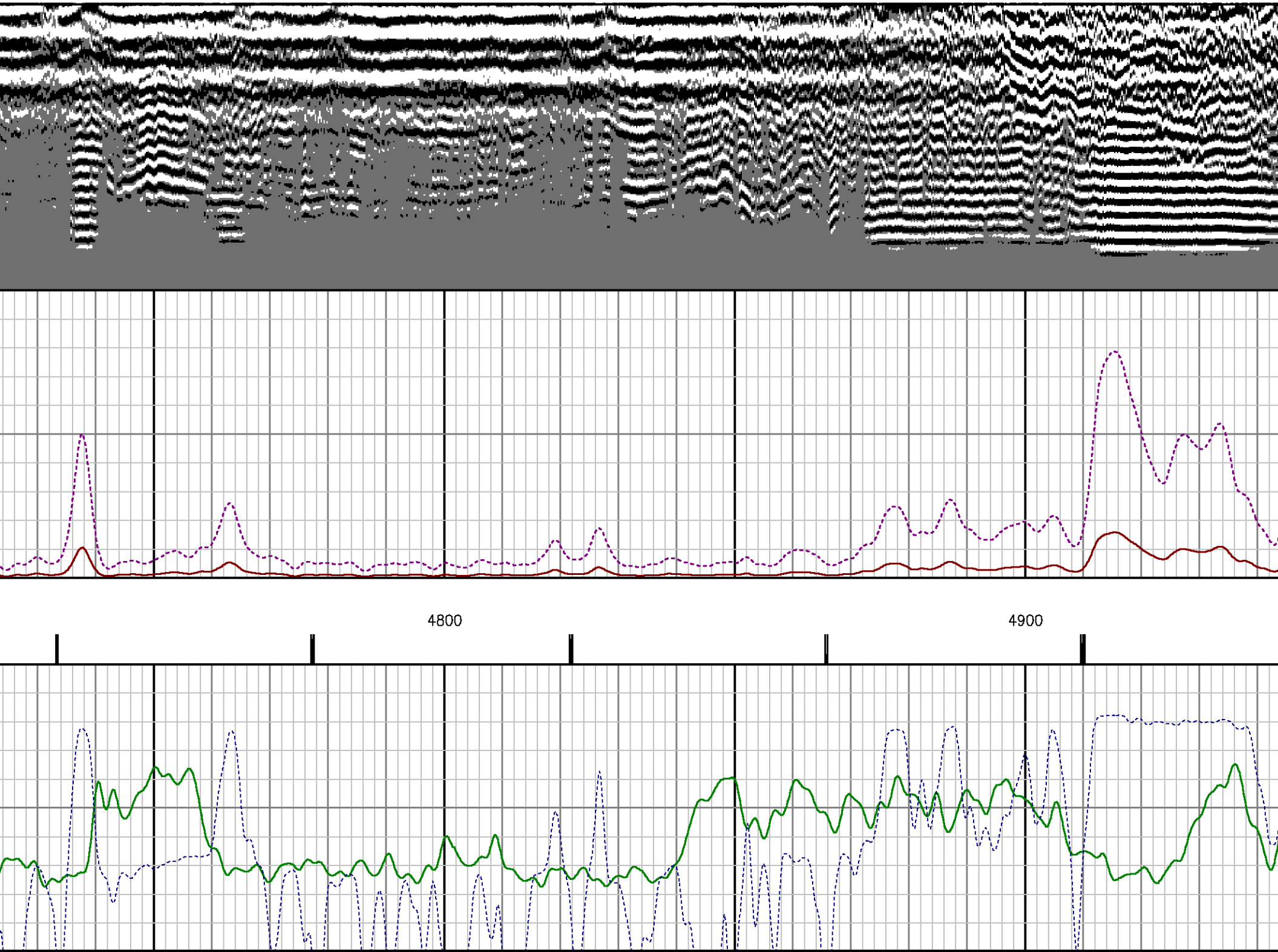
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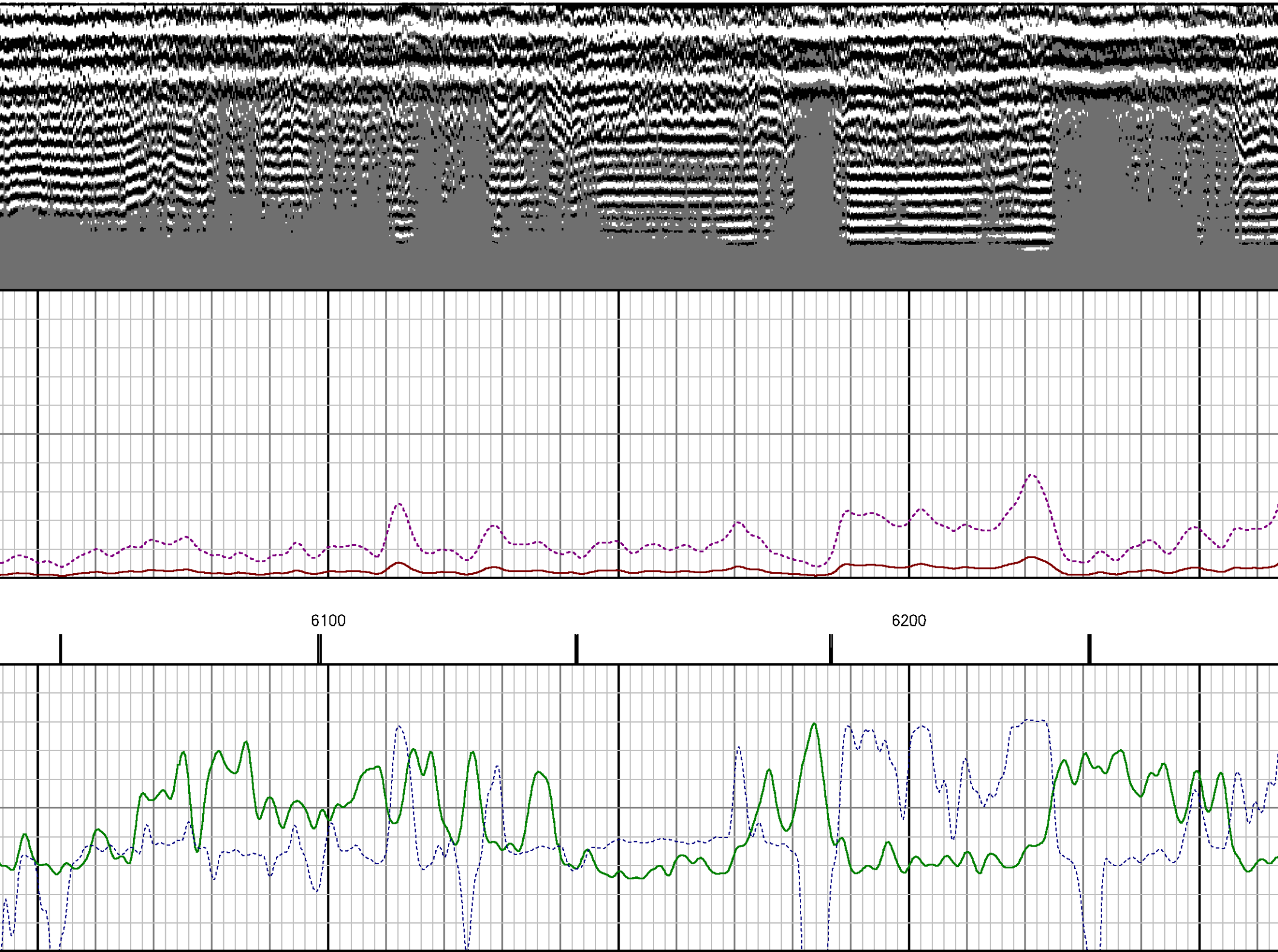
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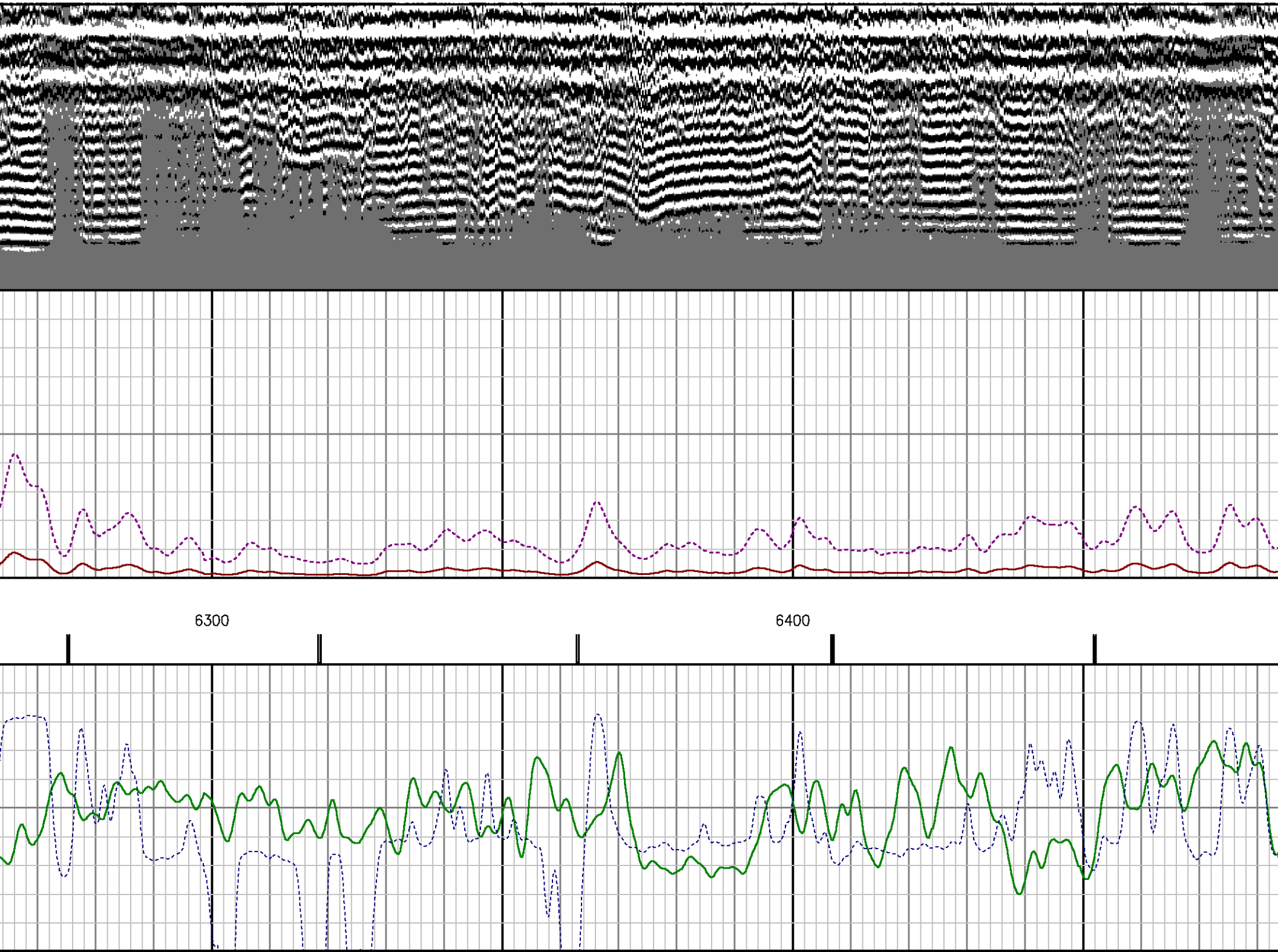
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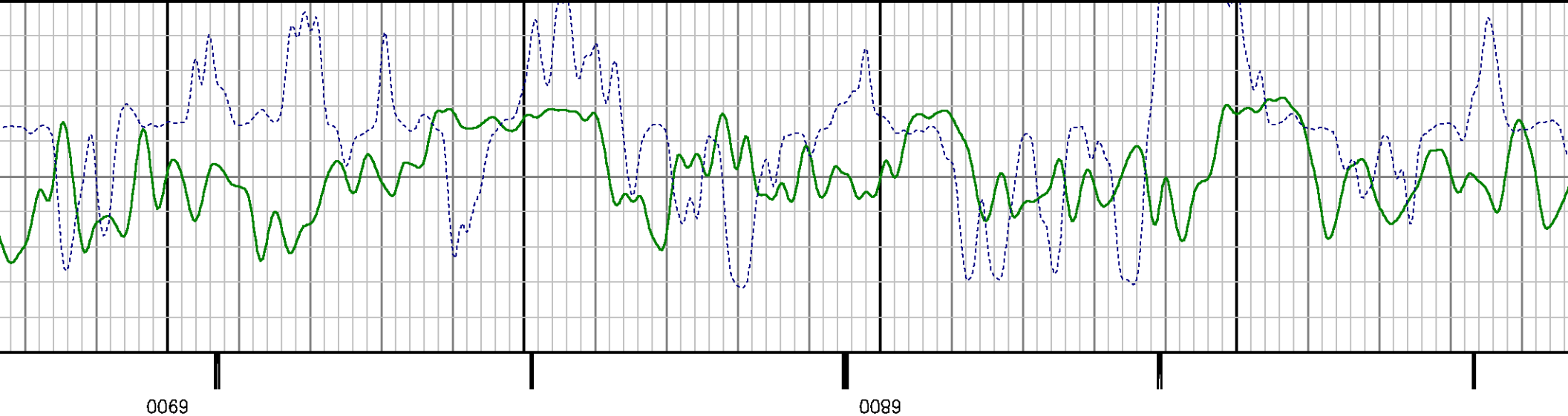
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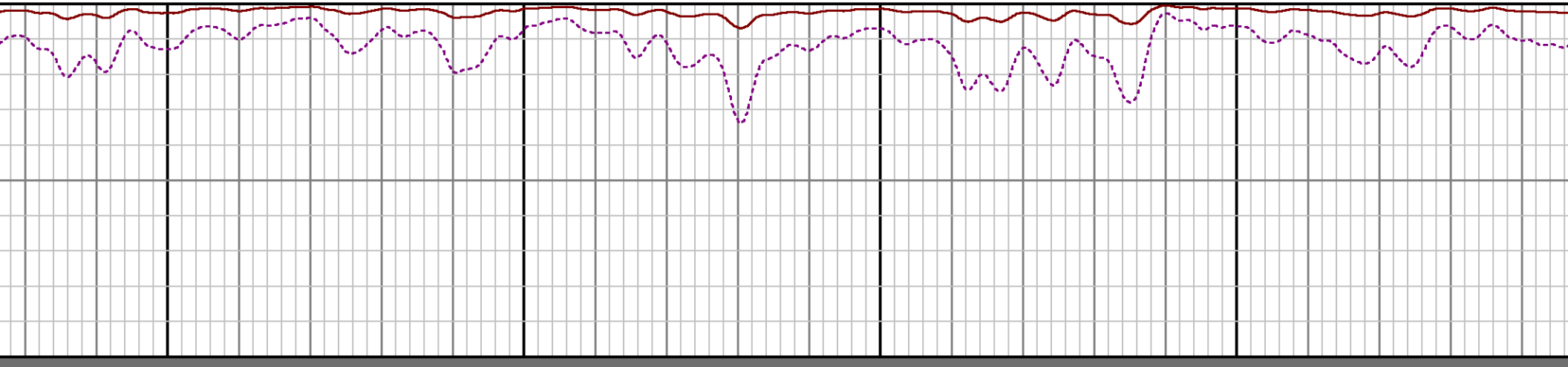

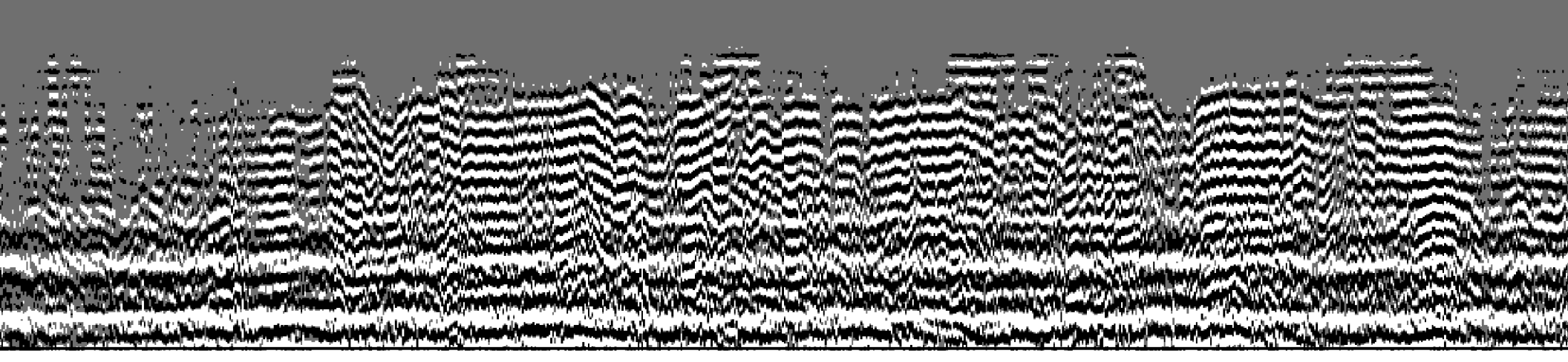

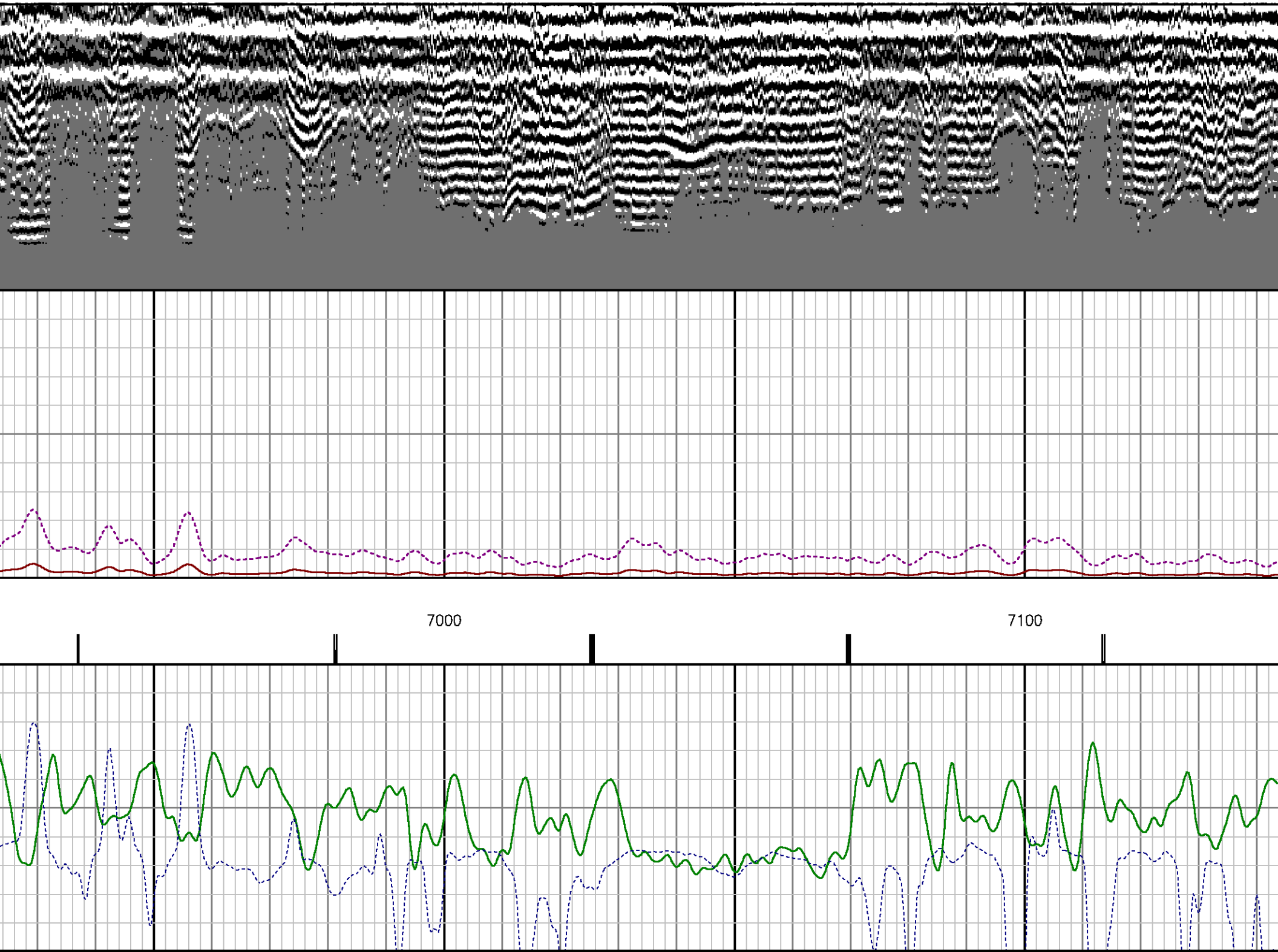
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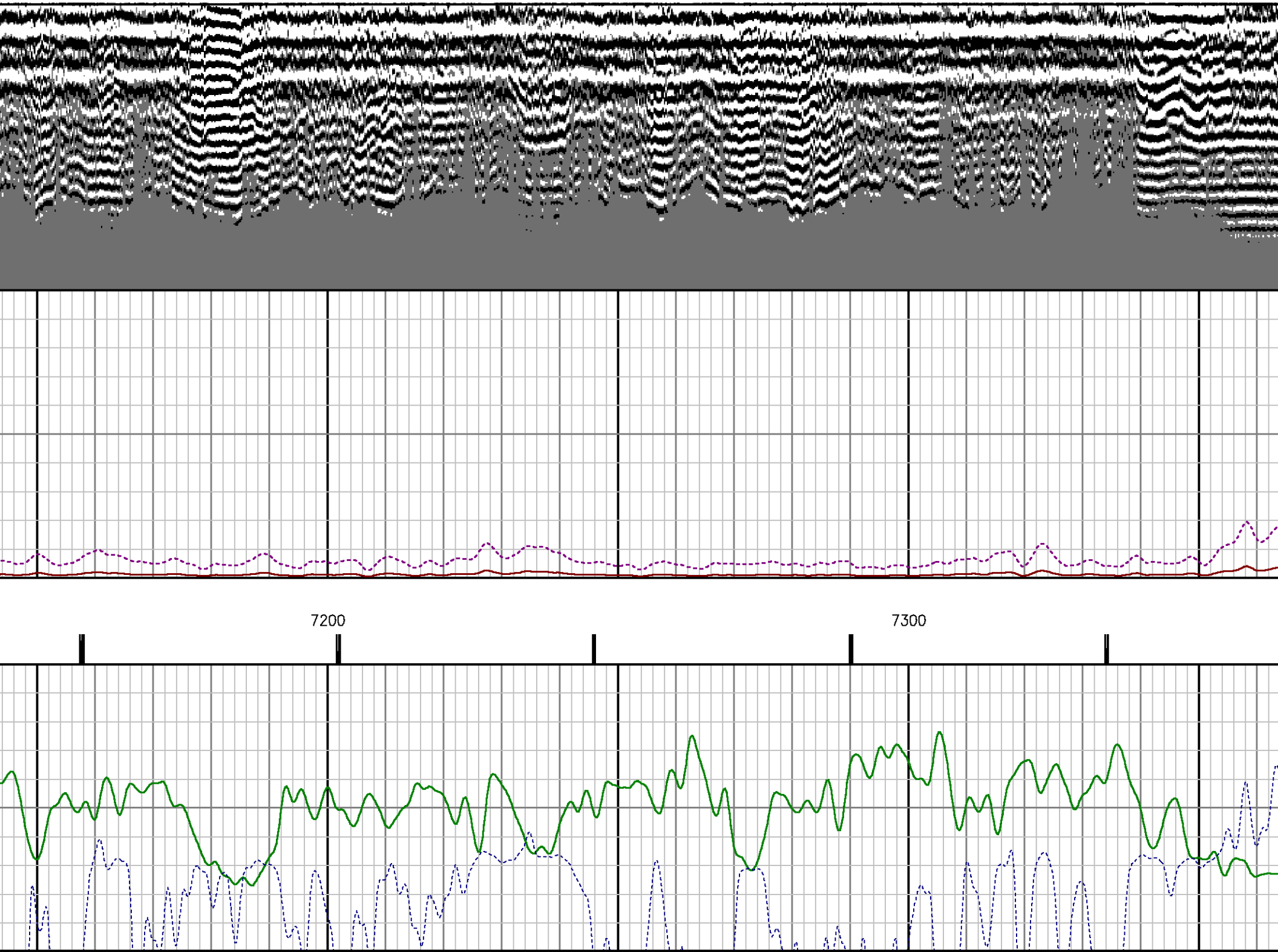
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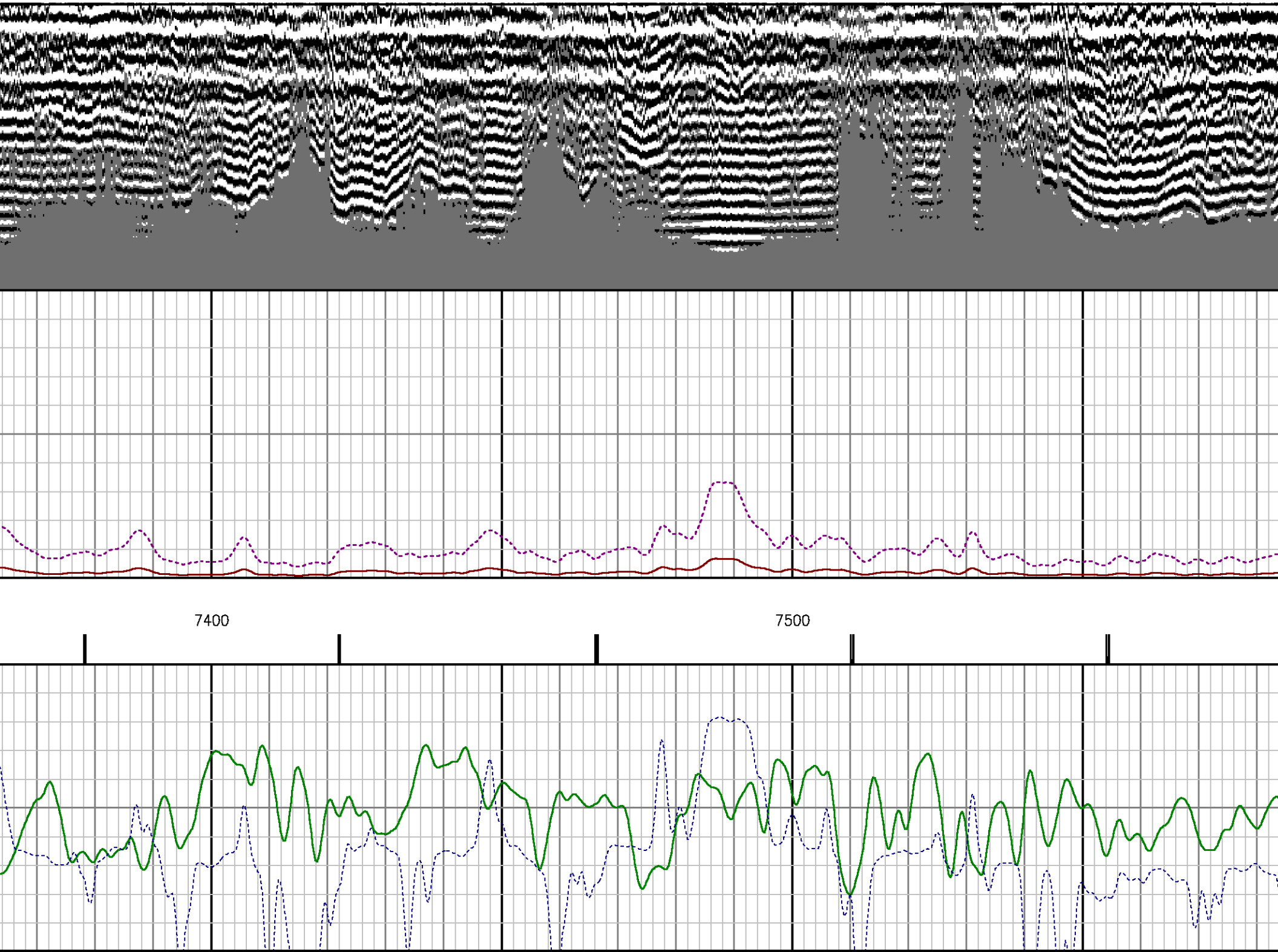
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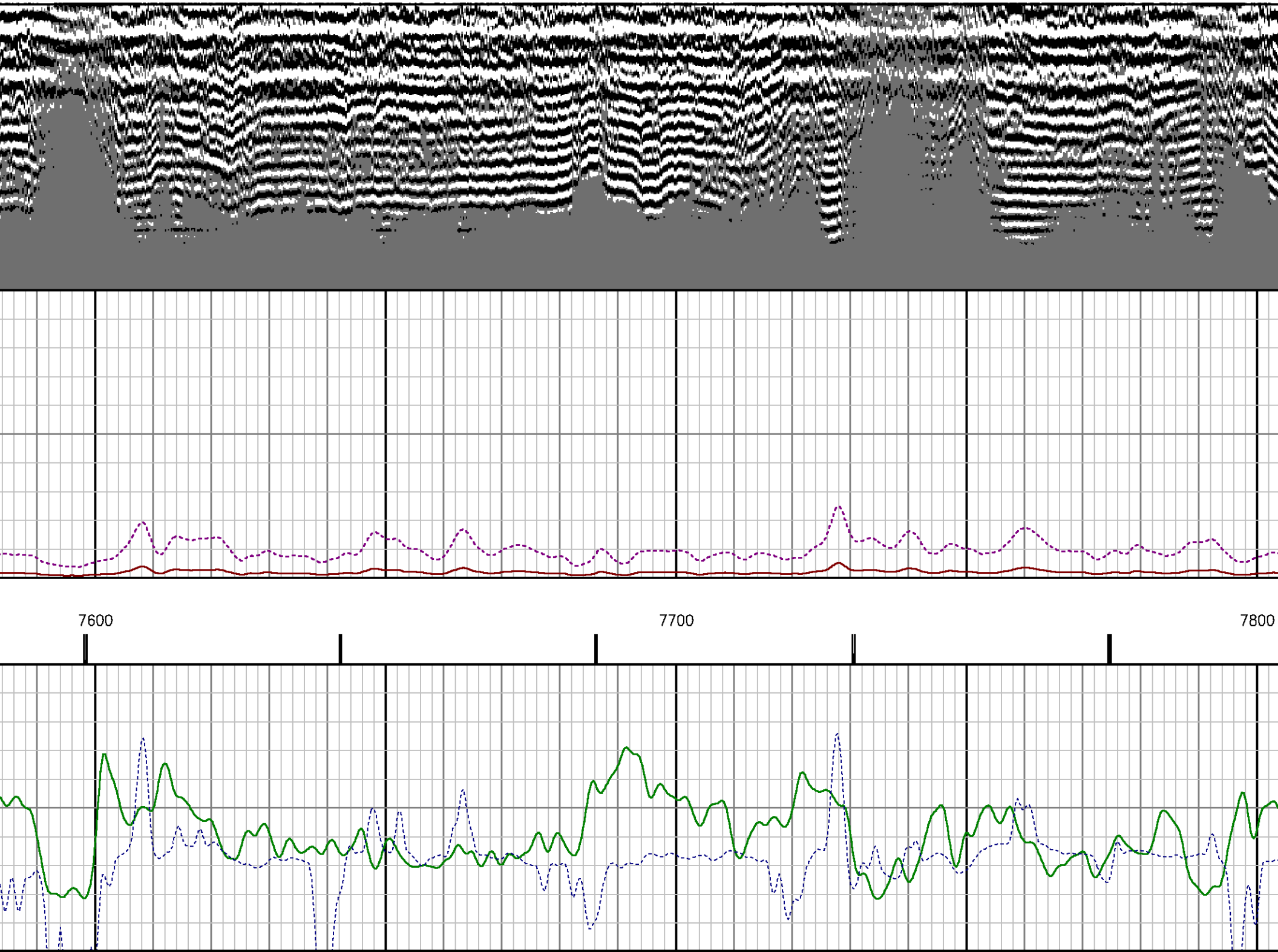
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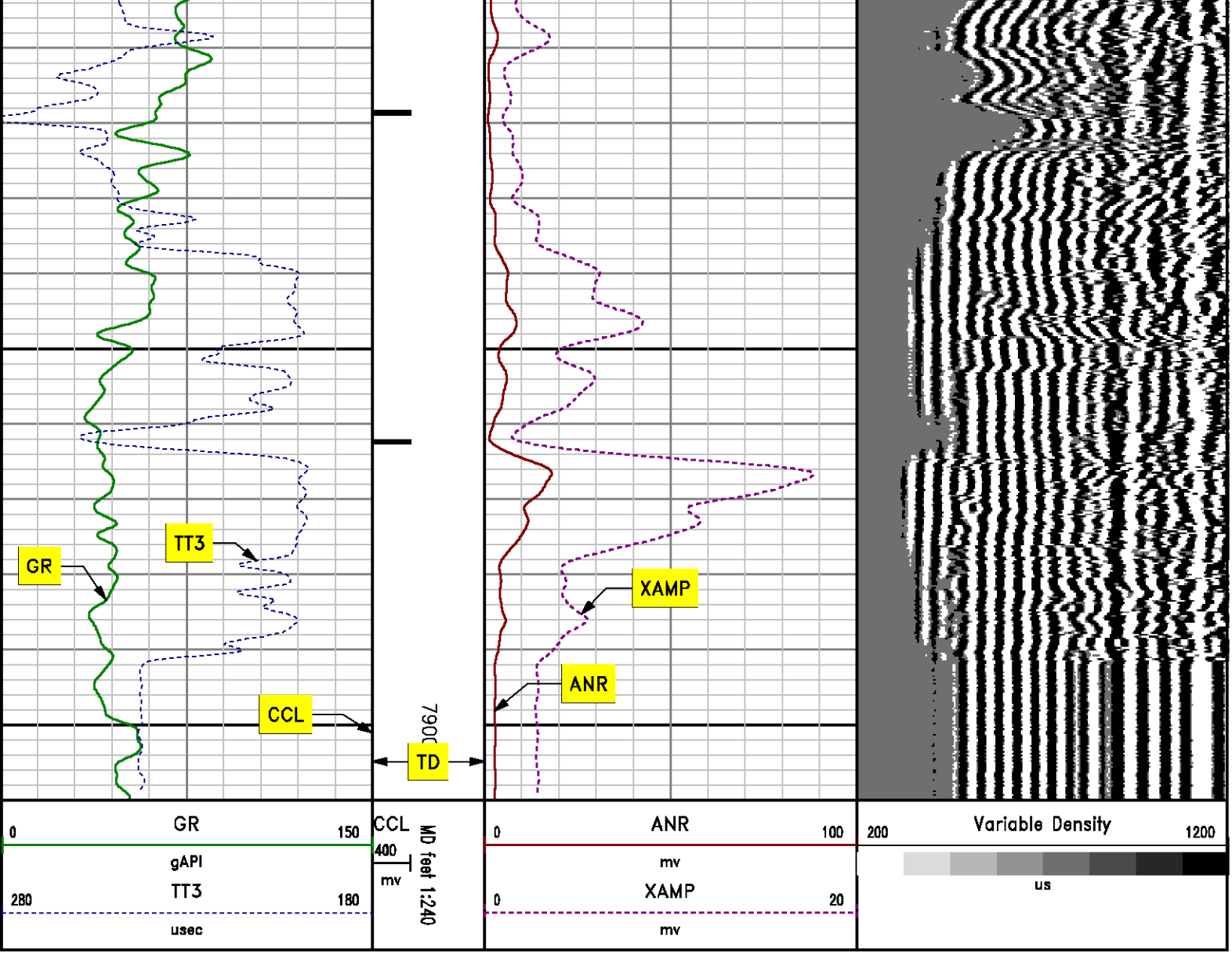


MAIN LOG SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.562	usec	25.656	7919.000
RAL	Amp Gate Start Near	198.031	usec	25.656	7919.000
RAL	Amp Gate Start Radial	198.031	usec	25.656	7919.000
RAL	Amp Gate Width Far	25.000	usec	25.656	7919.000

RAL	Amp Gate Width Near	25.000	usec	25.656	7919.000
RAL	Amp Gate Width Radial	25.000	usec	25.656	7919.000
RAL	casing od	4.500	inches	25.656	7919.000
RAL	casing wt	11.600	lbm/ft	25.656	7919.000
RAL	FB Start Far	291.900	usec	25.656	7919.000
RAL	FB Start Near	175.391	usec	25.656	7919.000
RAL	FB Start Radial	175.391	usec	25.656	7919.000
RAL	FB Thresh Far	10.000	mv	25.656	7919.000
RAL	FB Thresh Near	4.000	mv	25.656	7919.000
RAL	FB Thresh Radial	4.000	mv	25.656	7919.000
RAL	Fluid Travel Time	200.000	usec/ft	25.656	7919.718

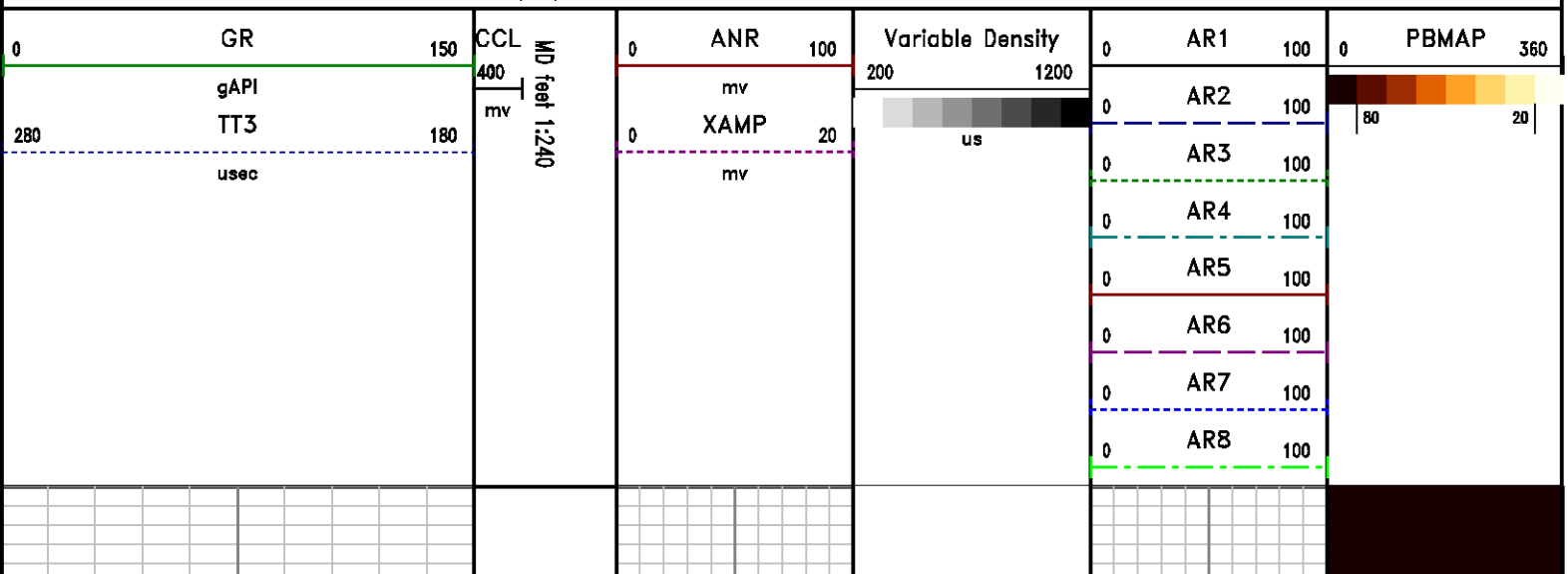
DEPTH OFFSETS

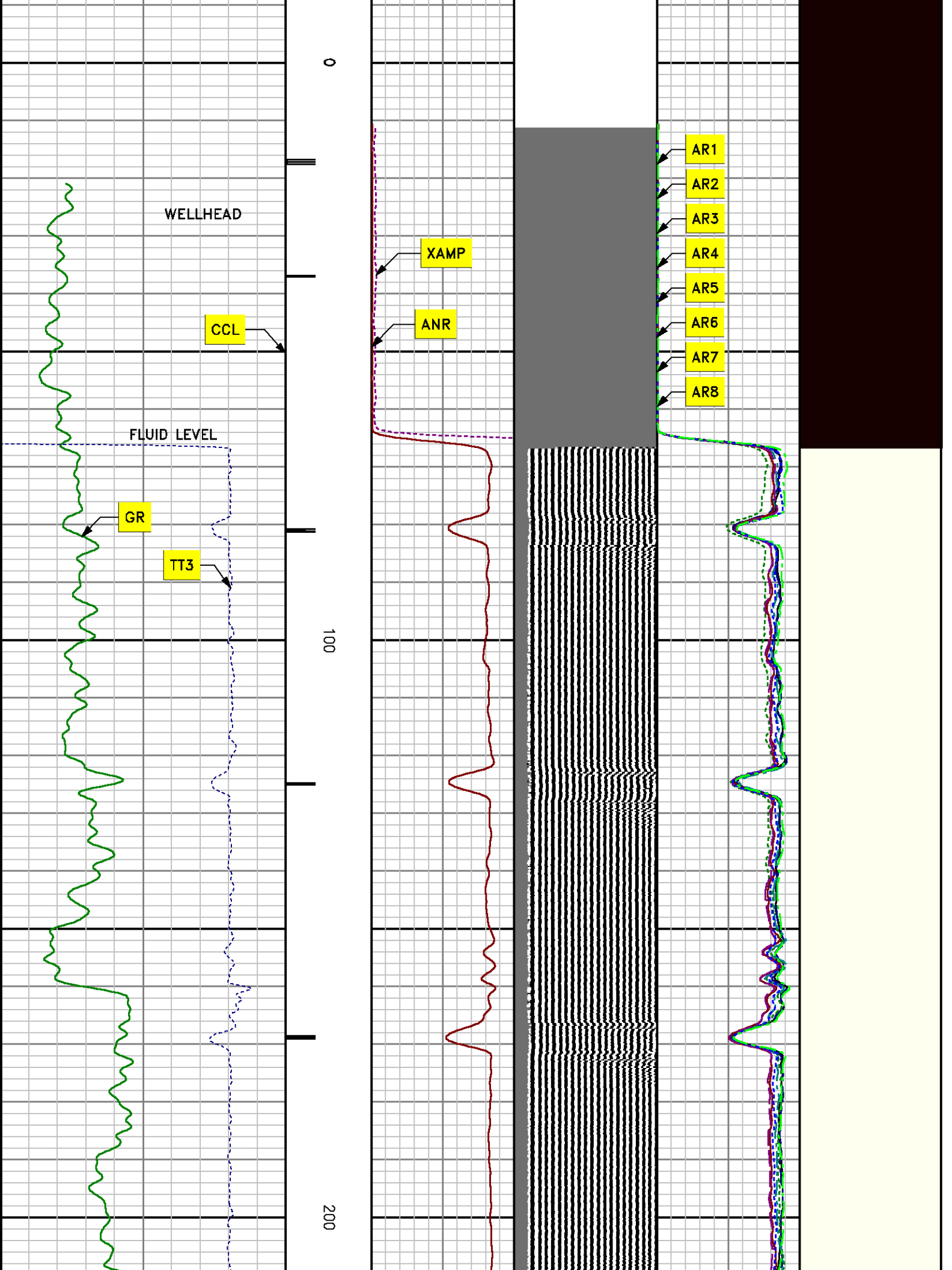
(for Acquired Curves)

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 : GOLDSBOROUGH PA 312-11
File Name : d:\welldata\312cbl\main_rdrr.xtf
Mode : PlotMgr 5.4.504
Interval : -20.00 - 7910.00 feet UP
Created : 4/28/2013 11:01:42 AM

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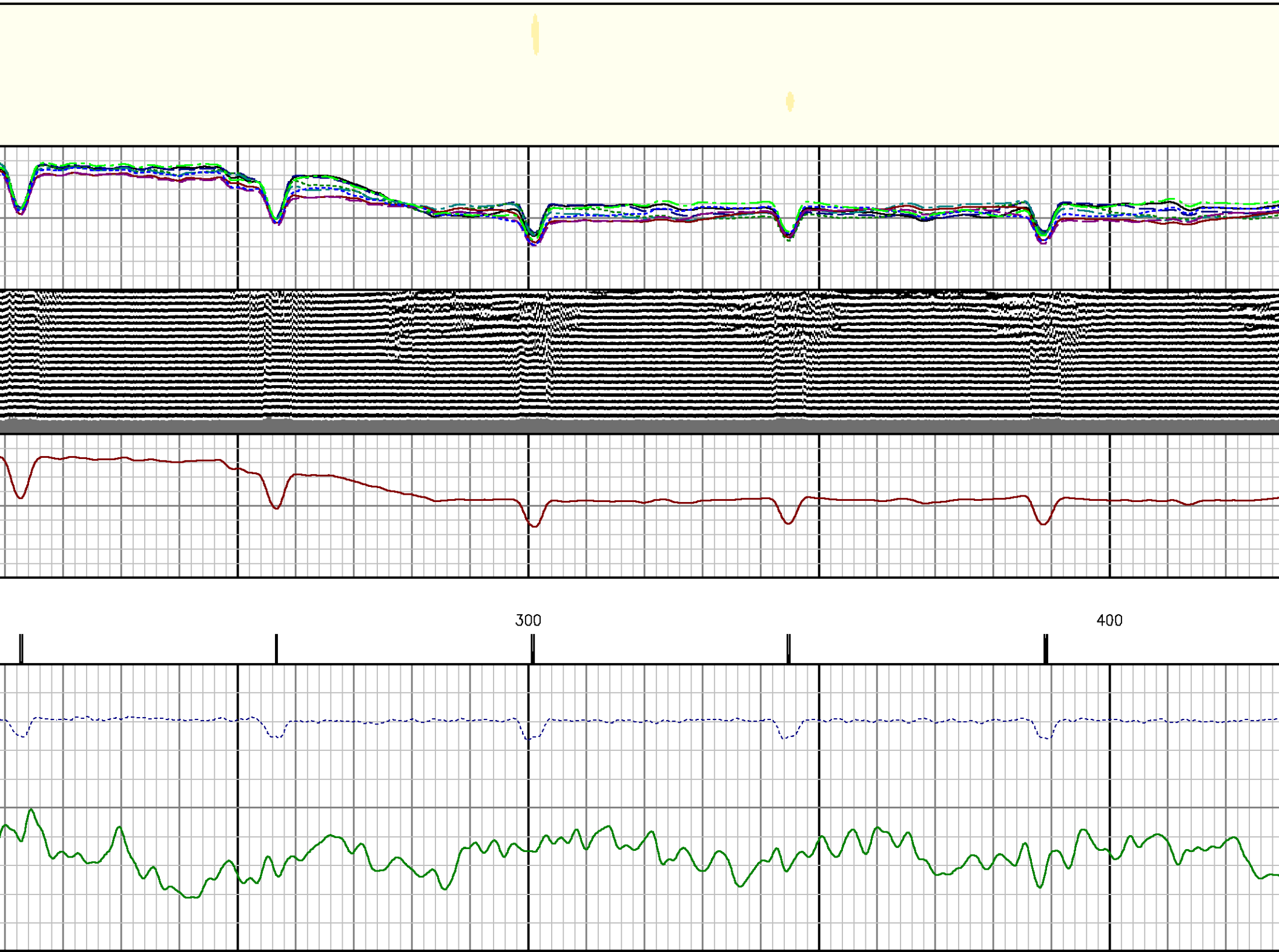
100
200
WELLHEAD
CCL
FLUID LEVEL
GR
TT3
XAMP
ANR
AR1
AR2
AR3
AR4
AR5
AR6
AR7
AR8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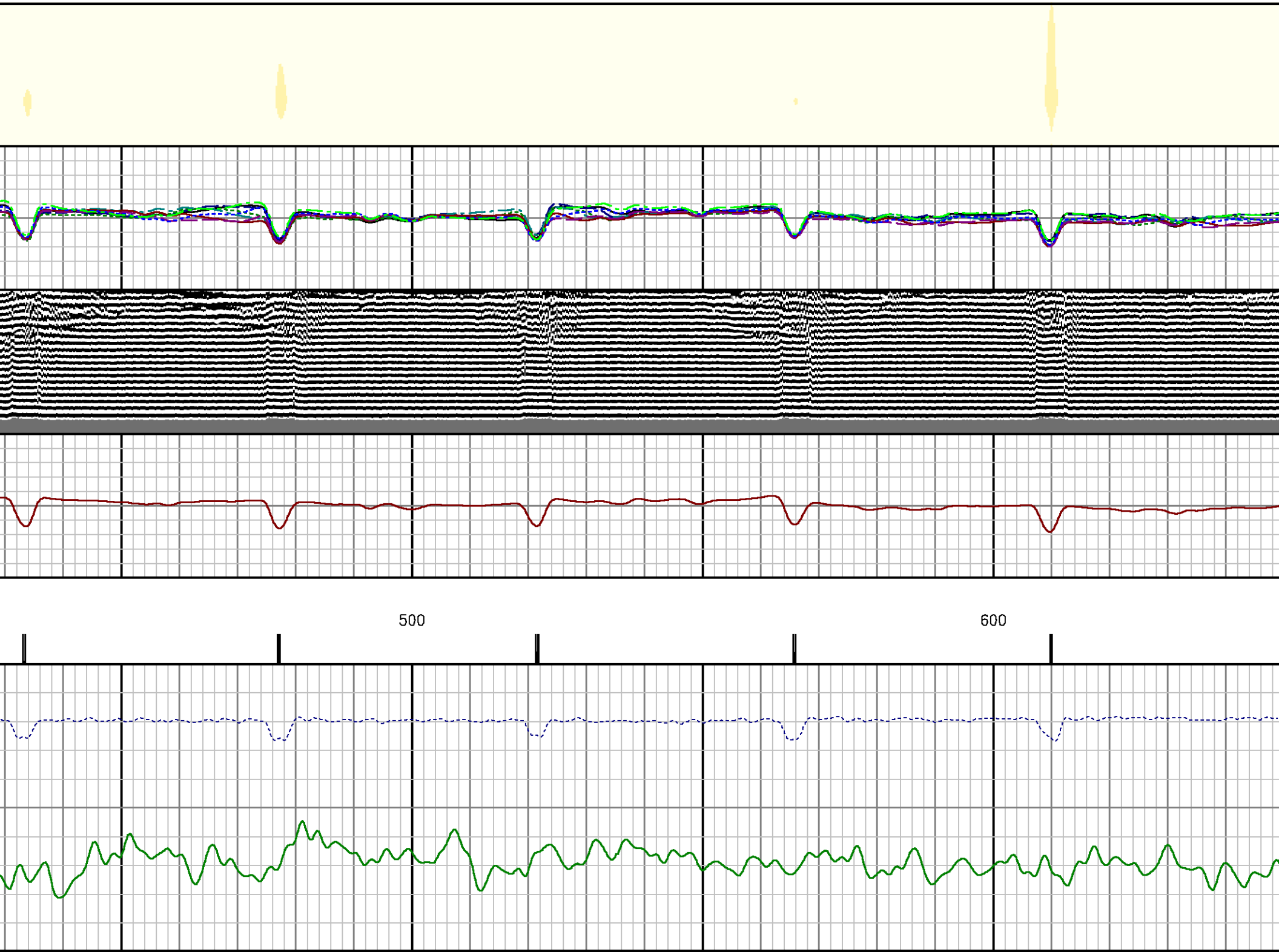
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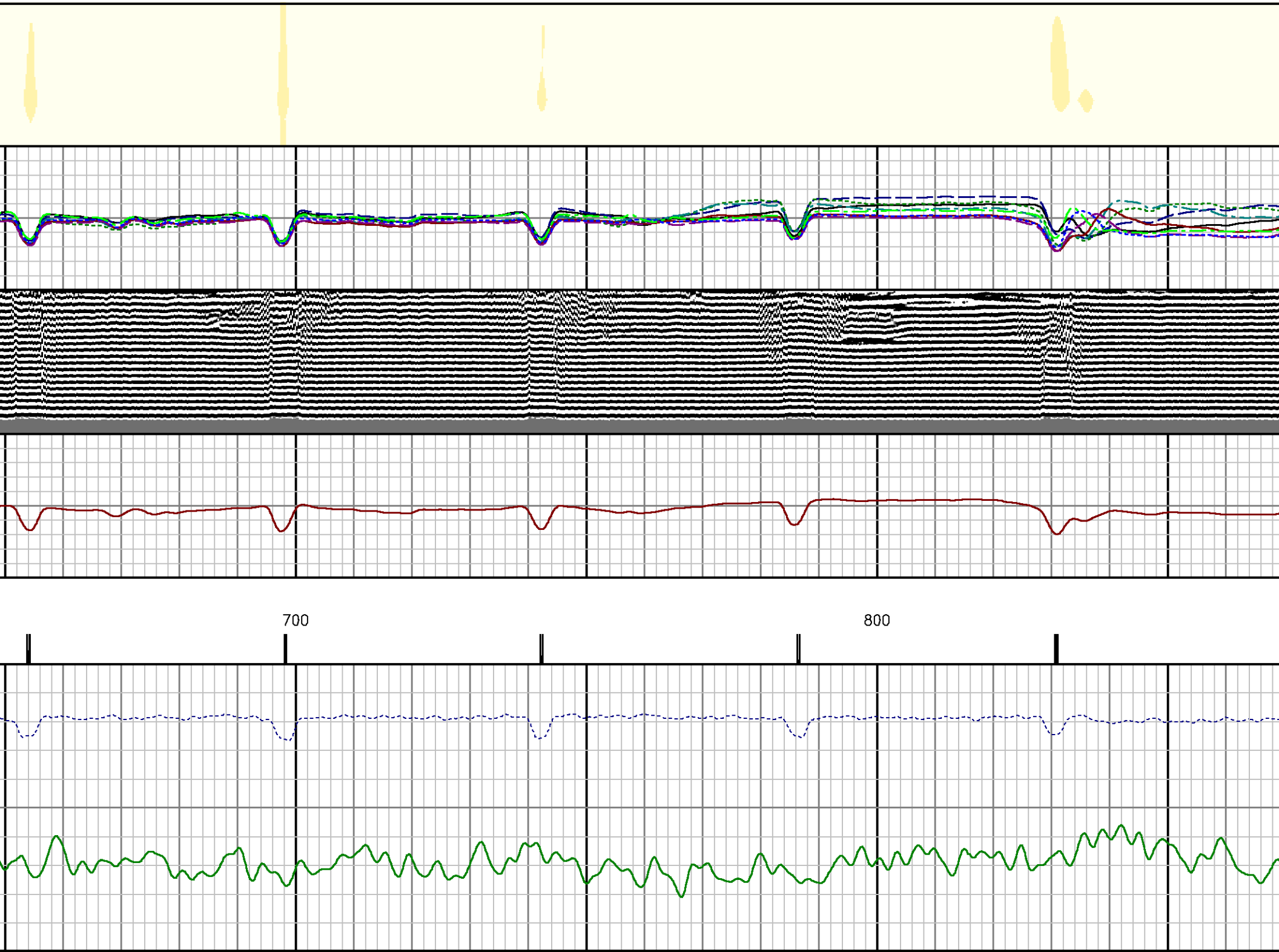
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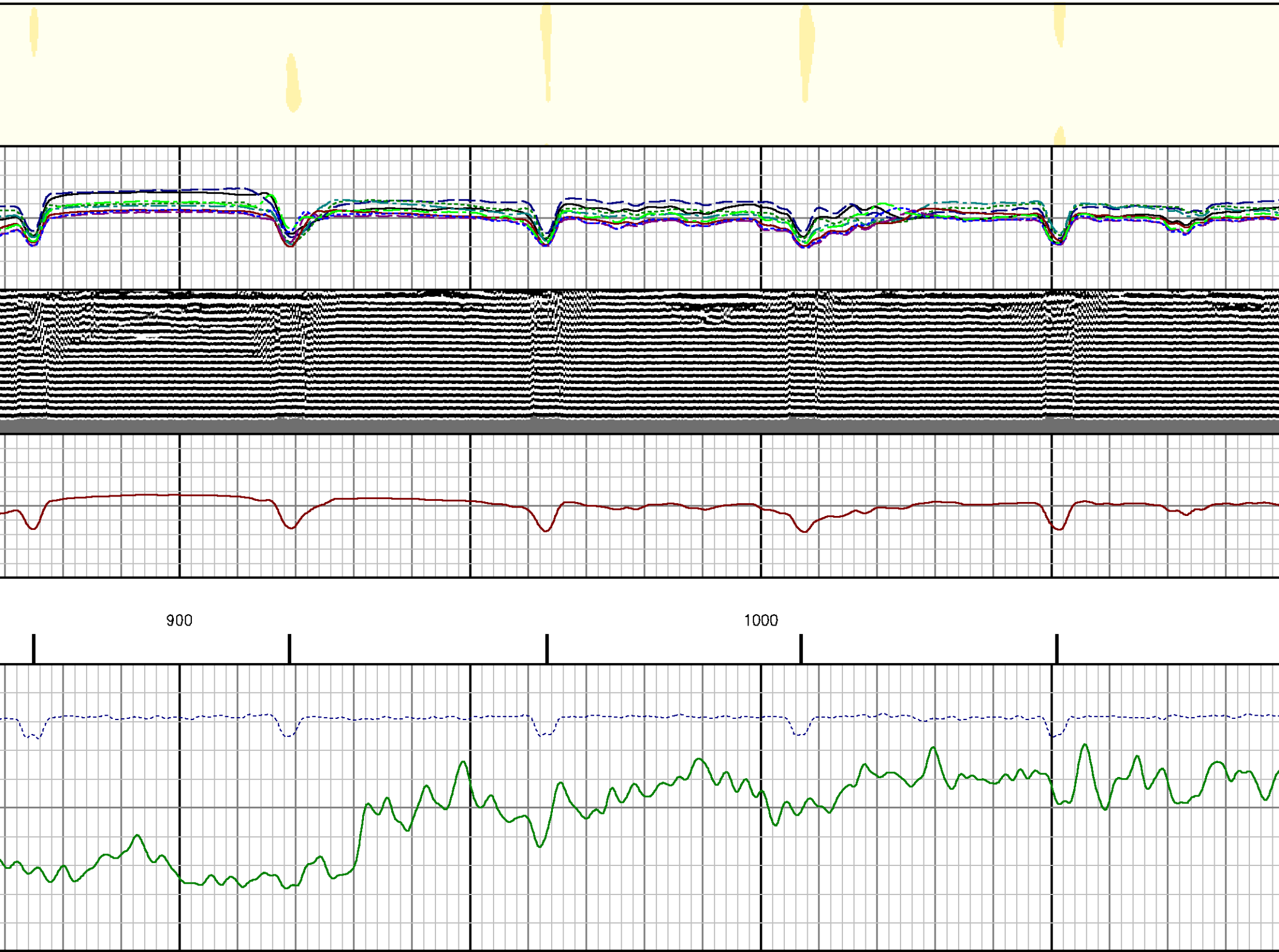
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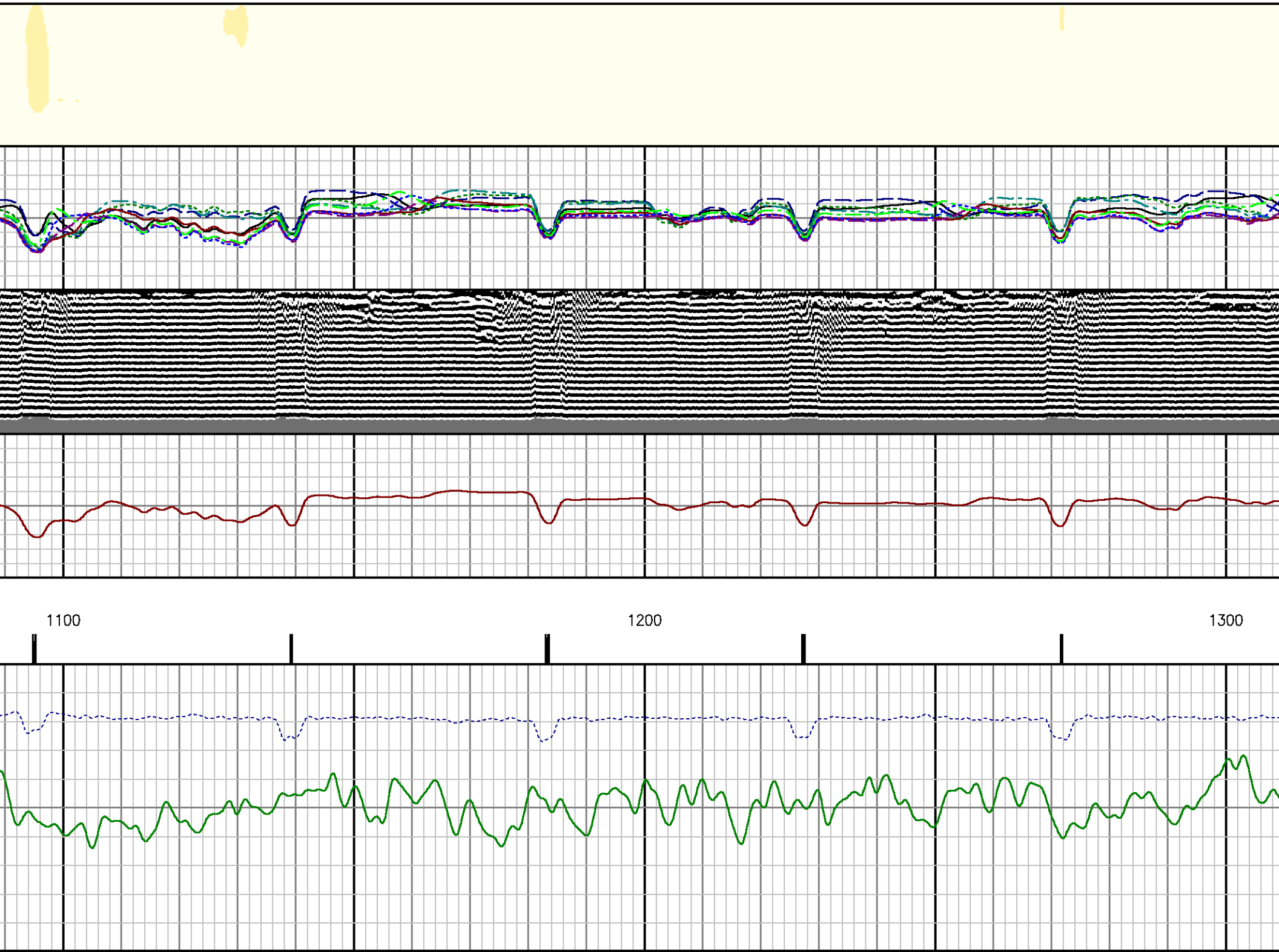
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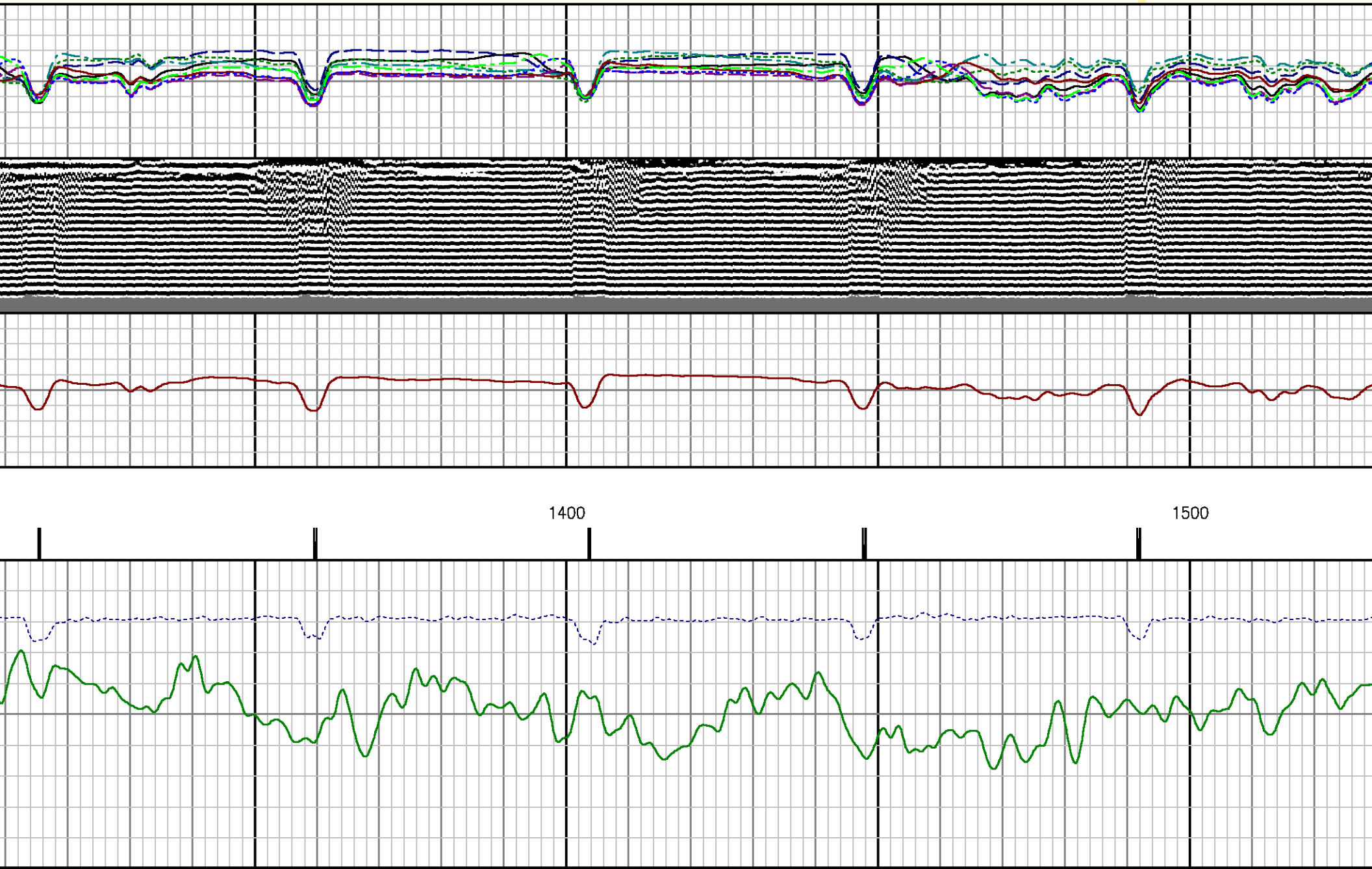
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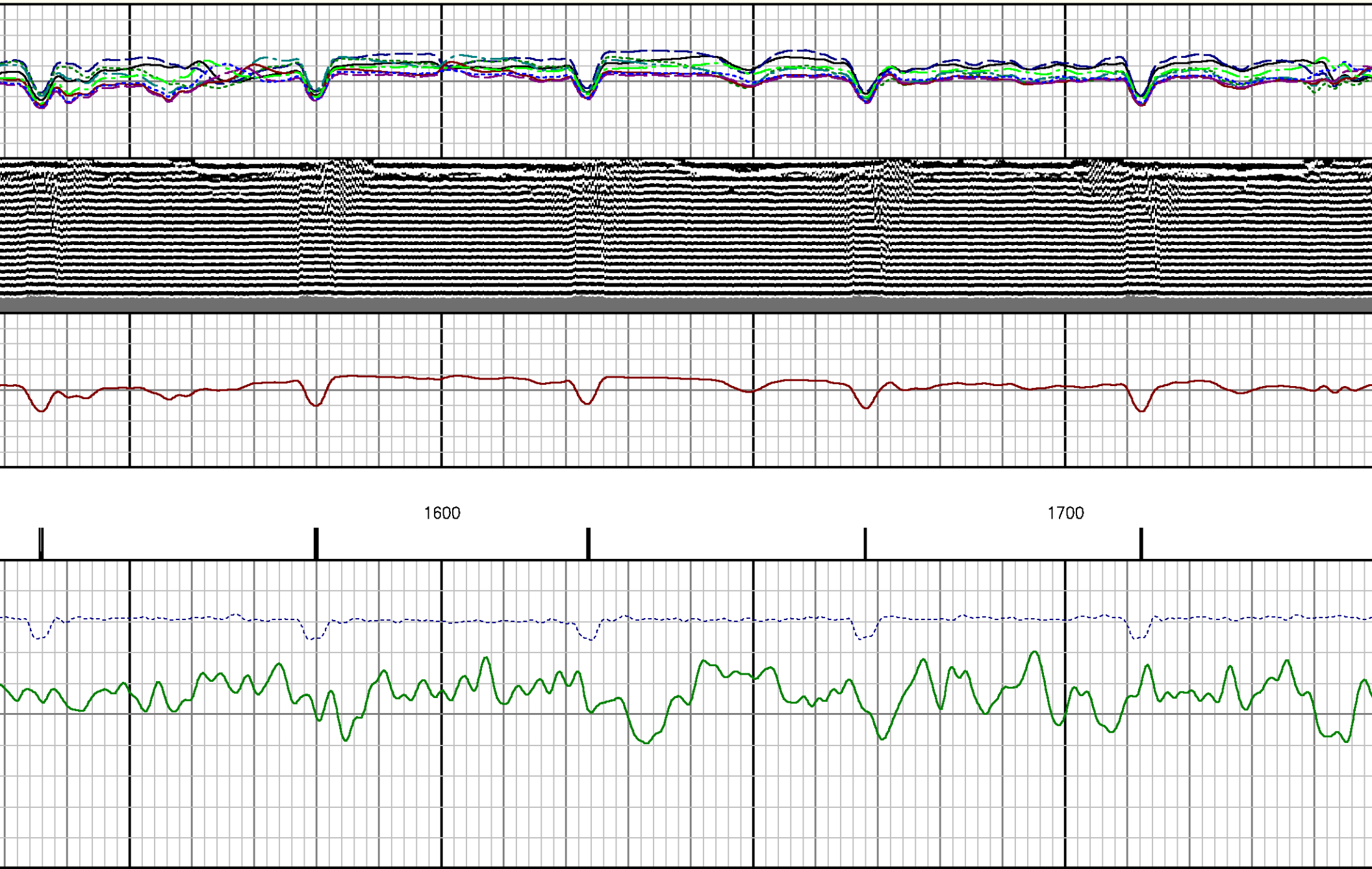
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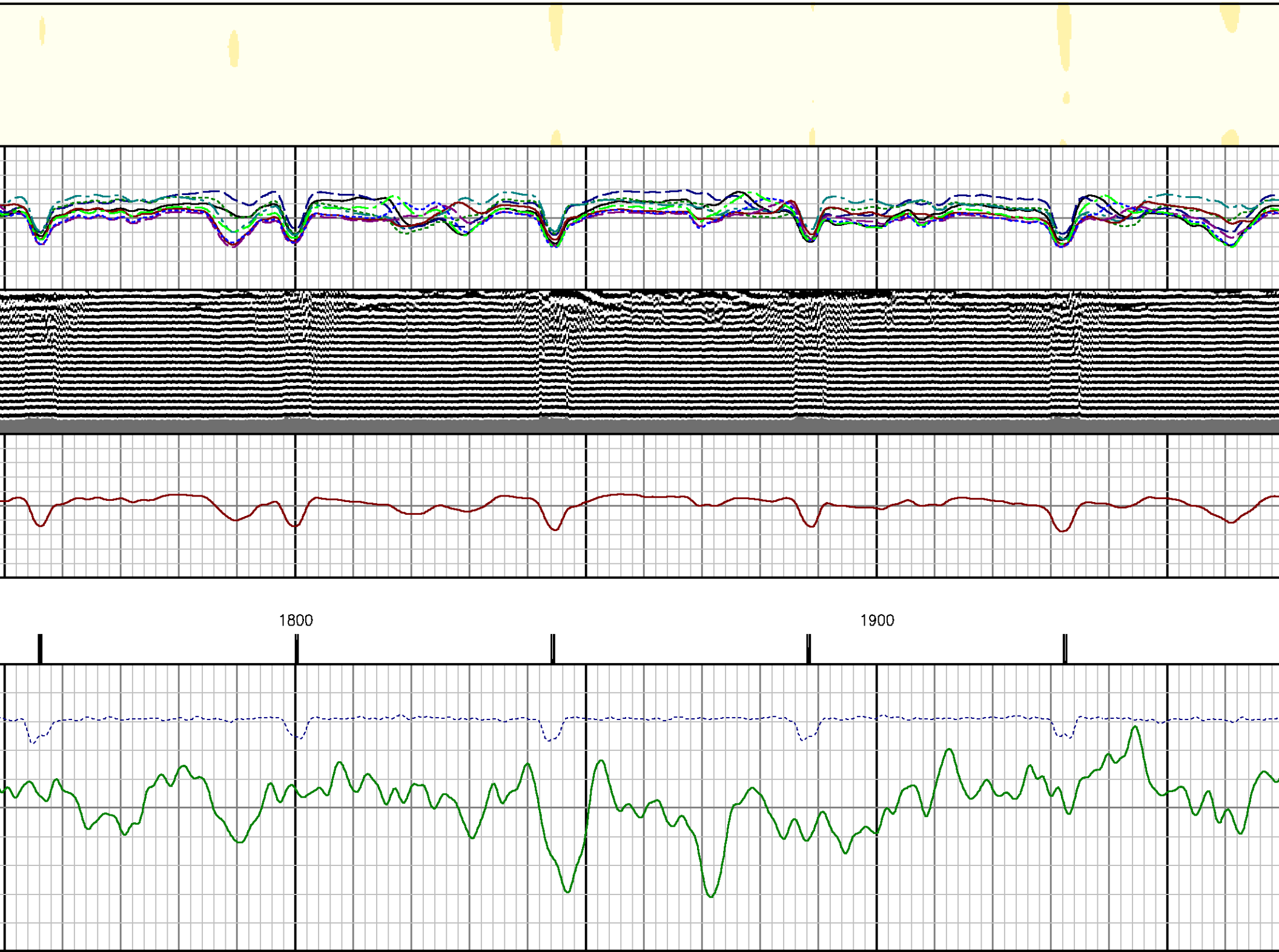
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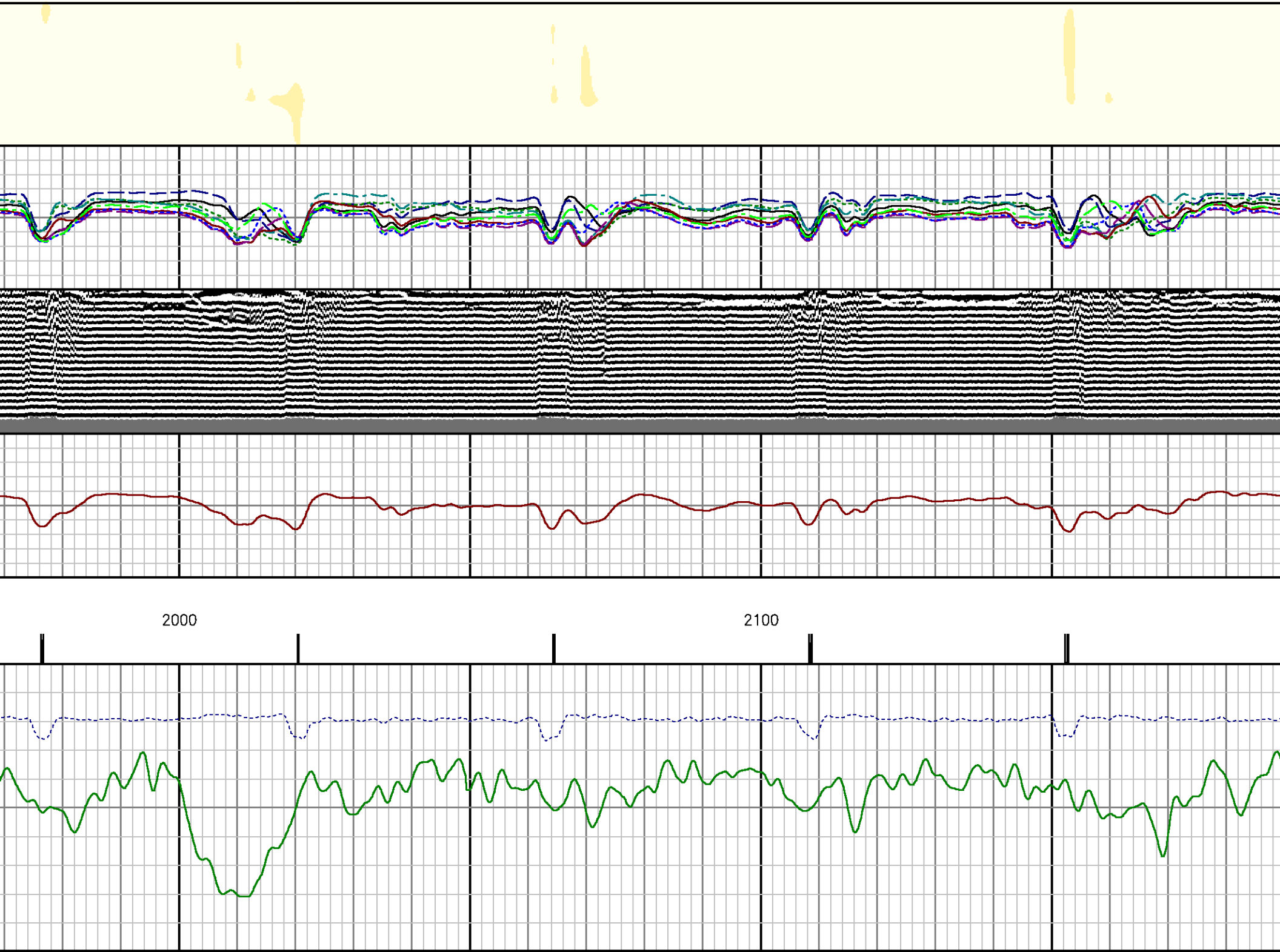
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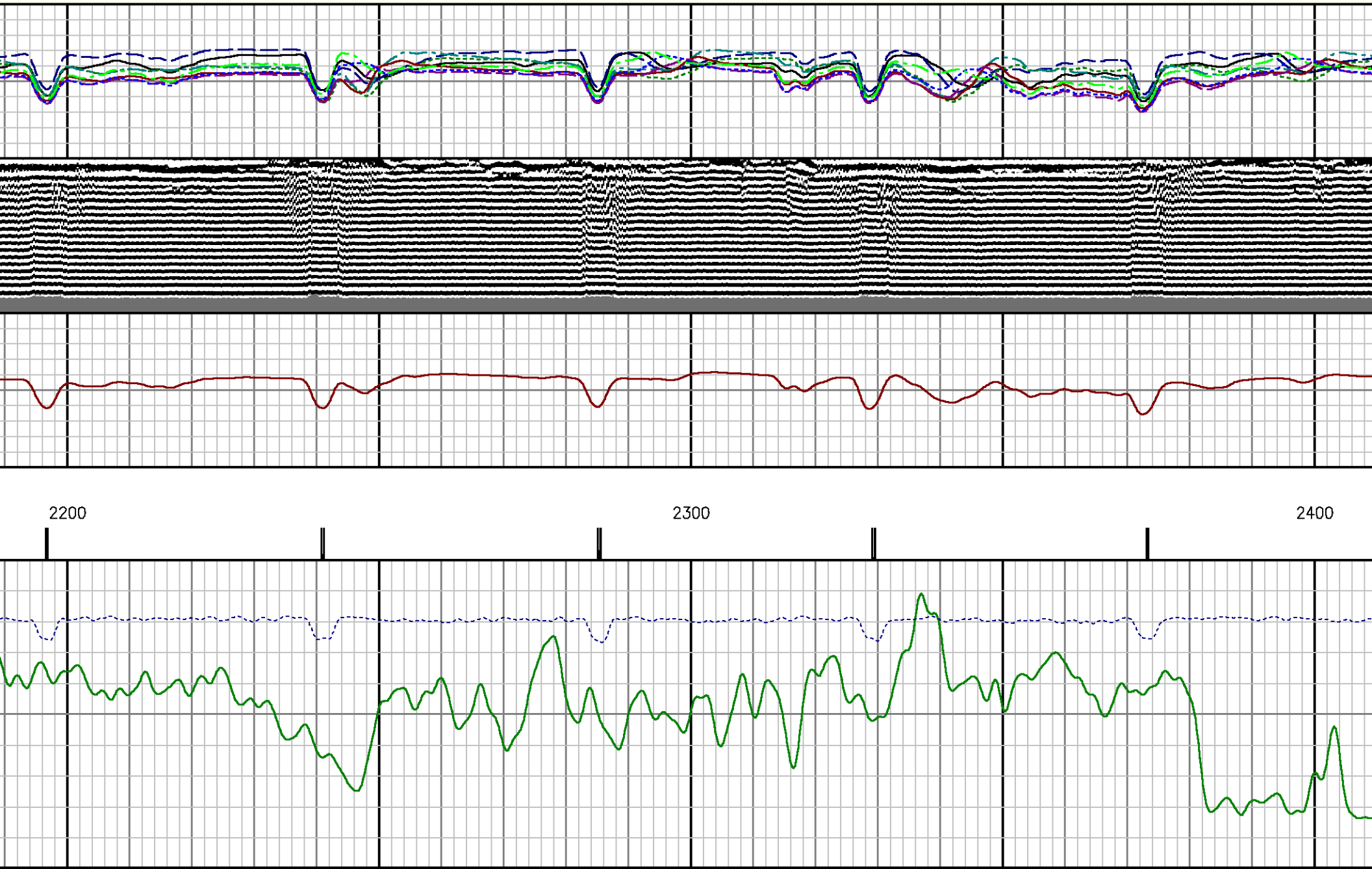
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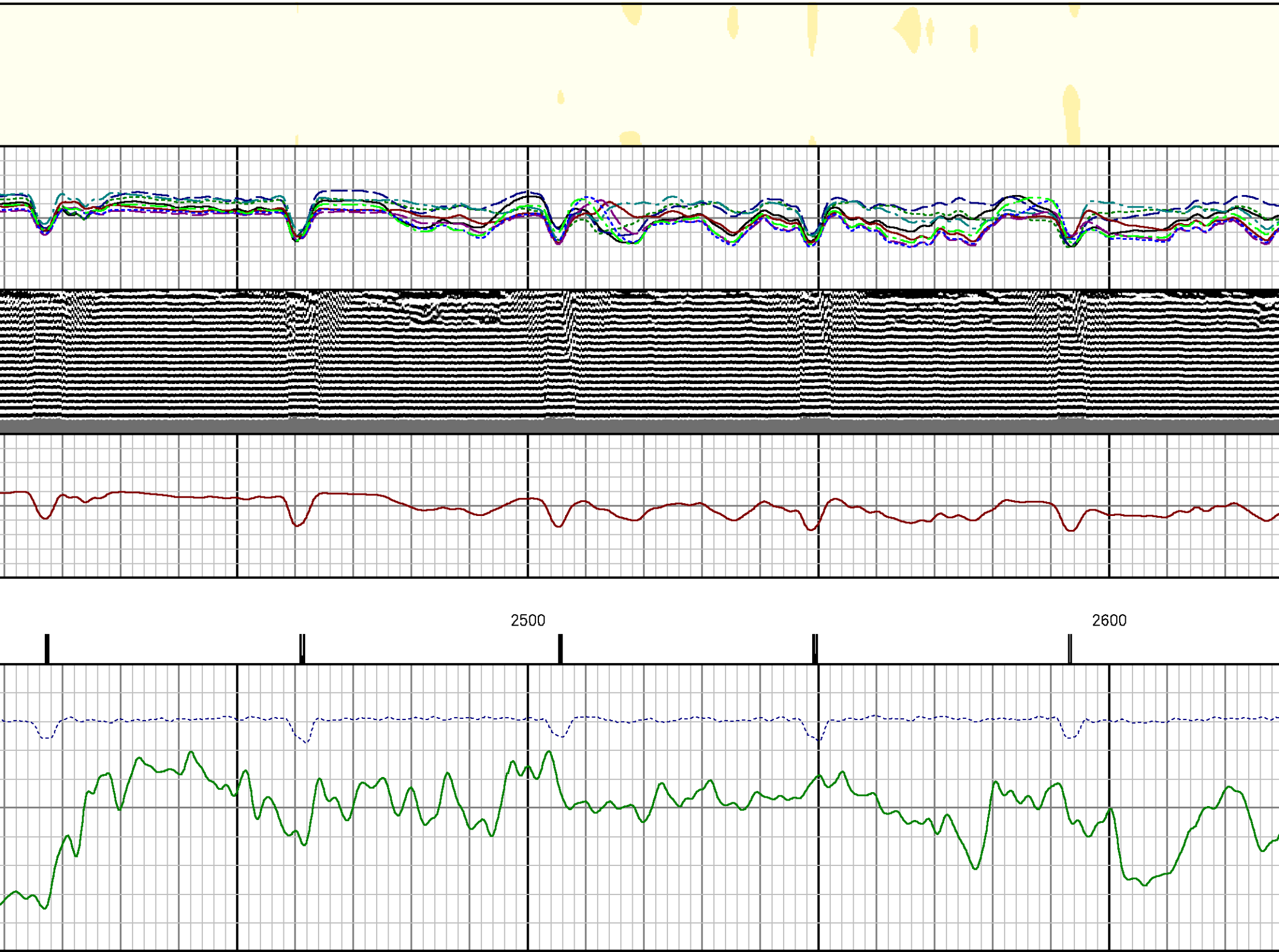
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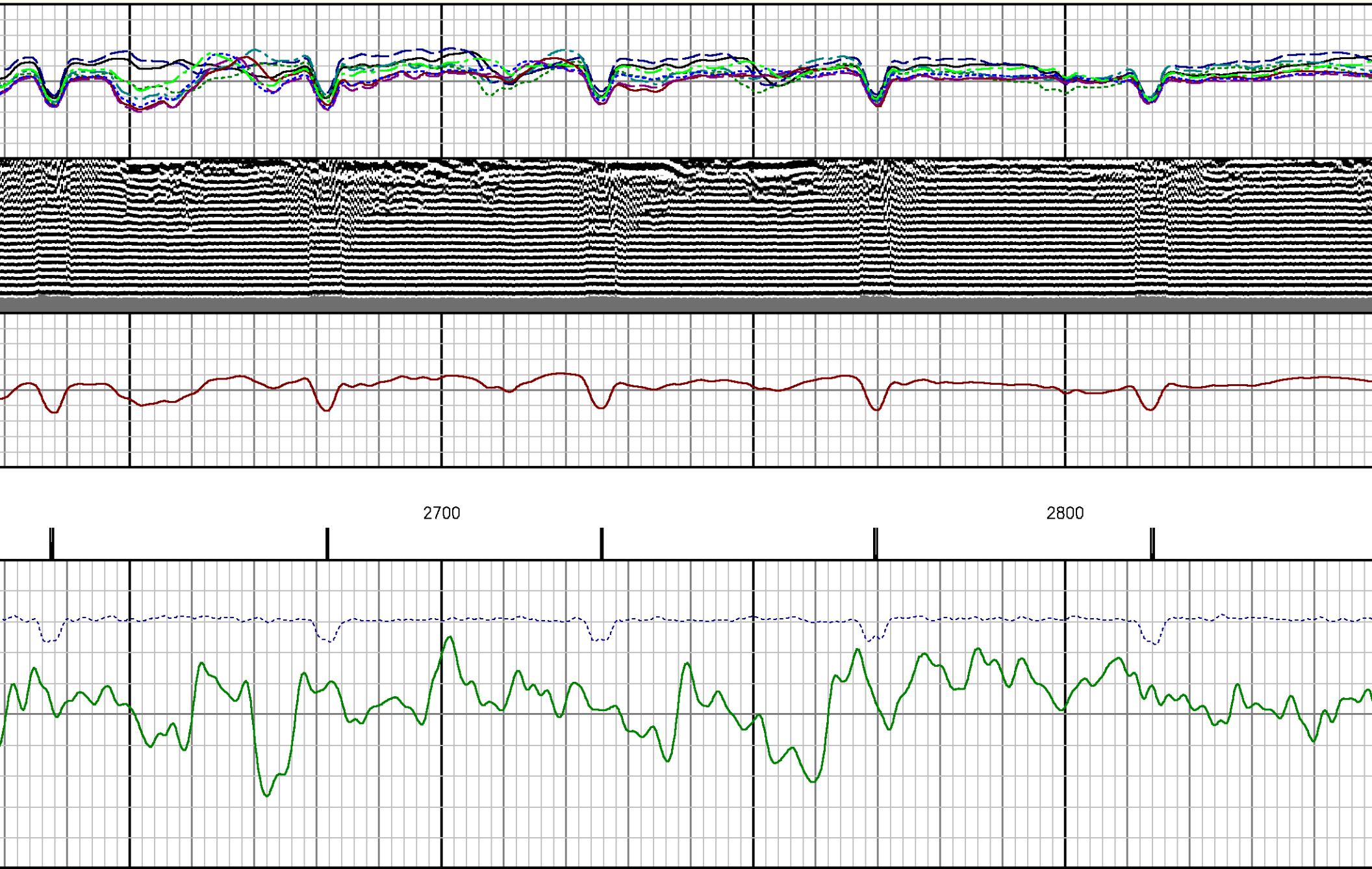
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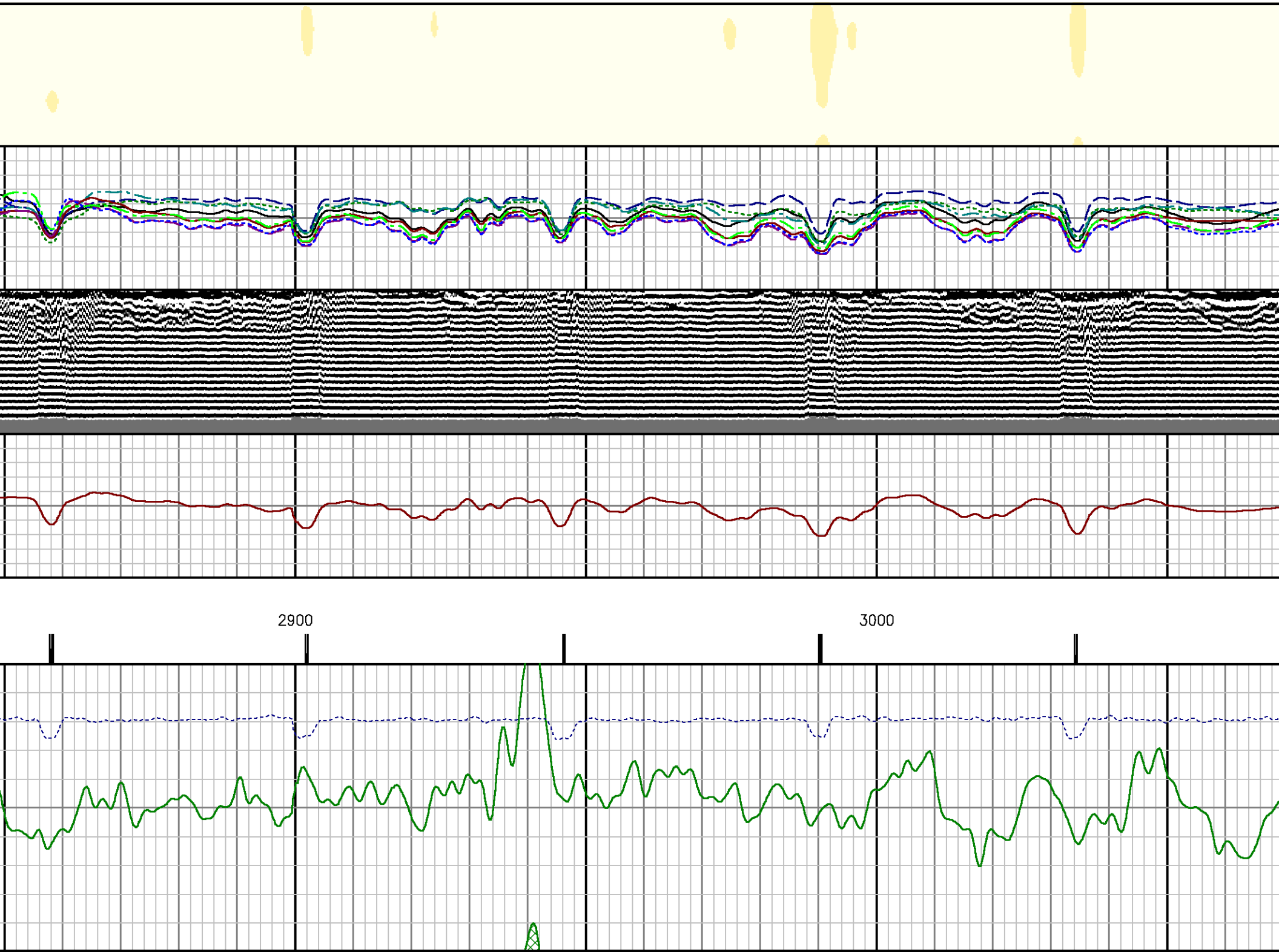
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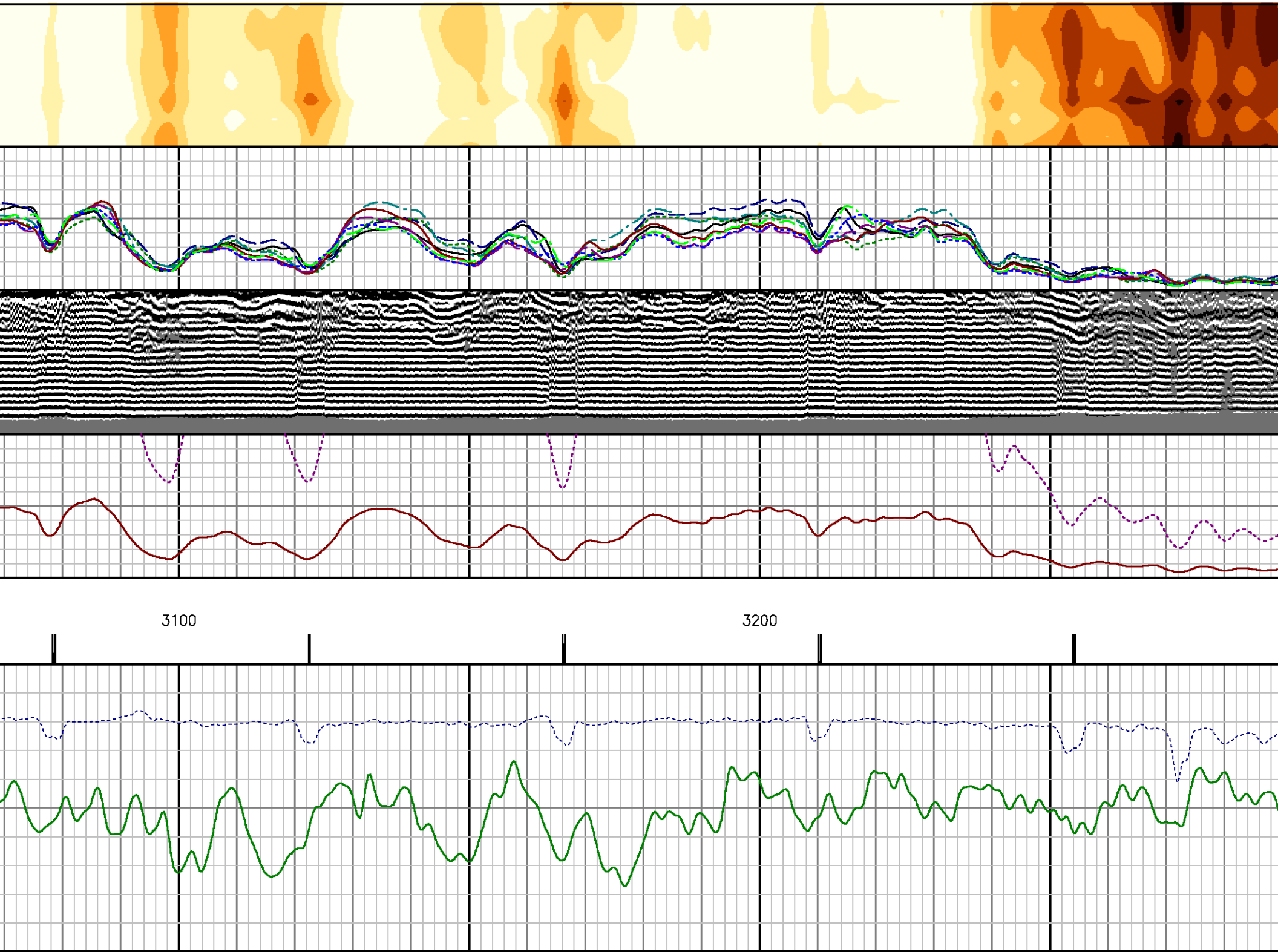
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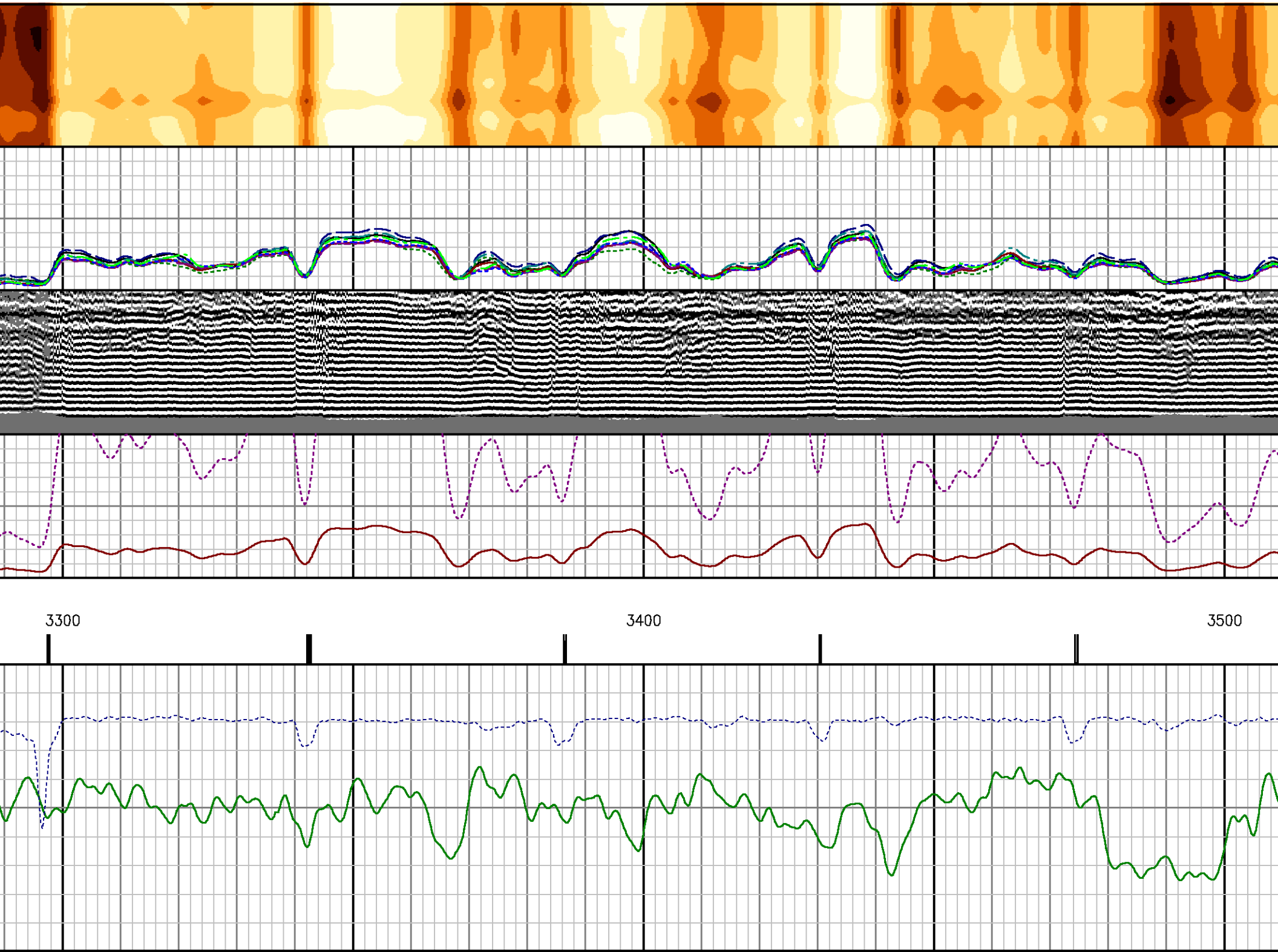
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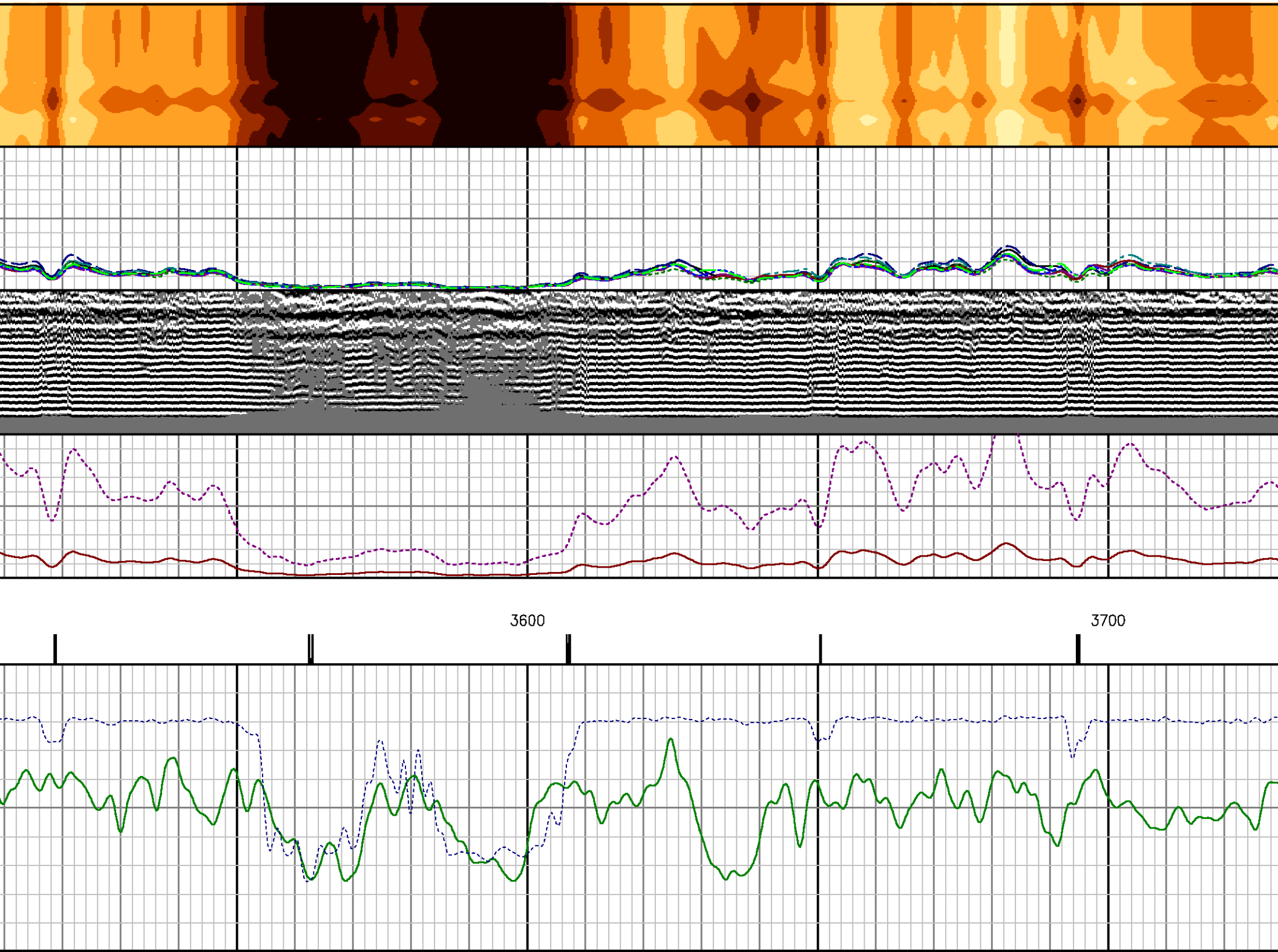
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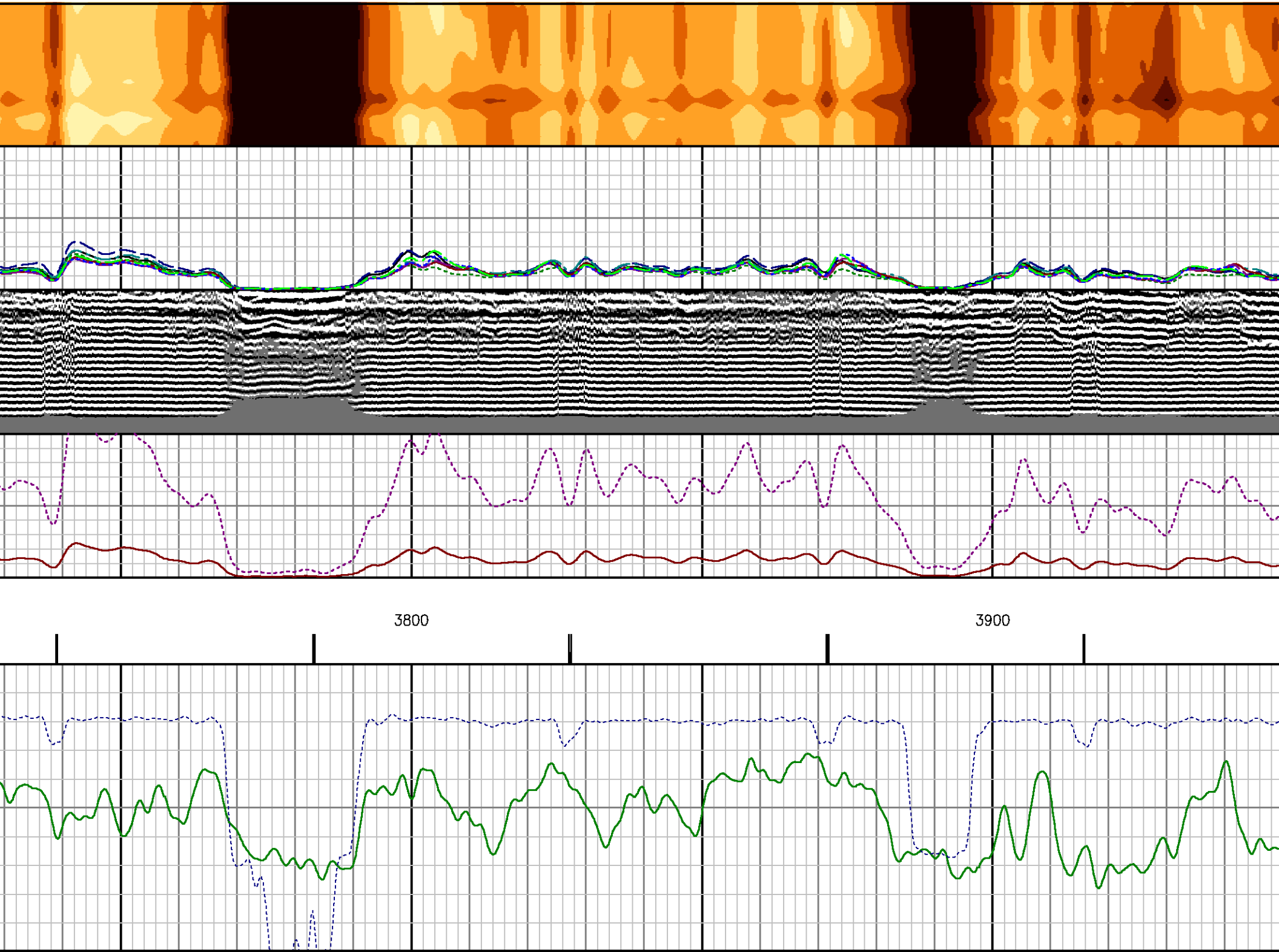
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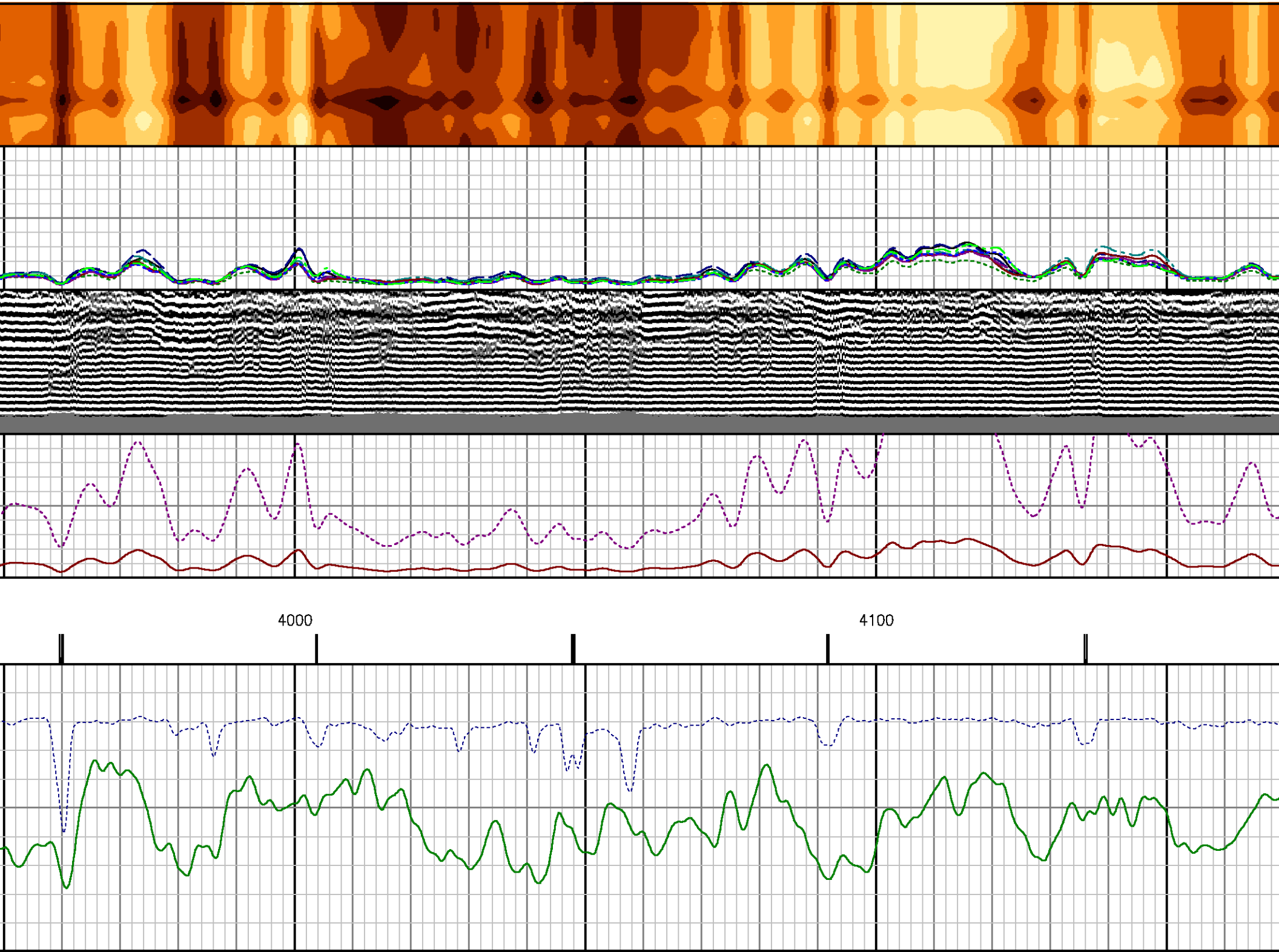
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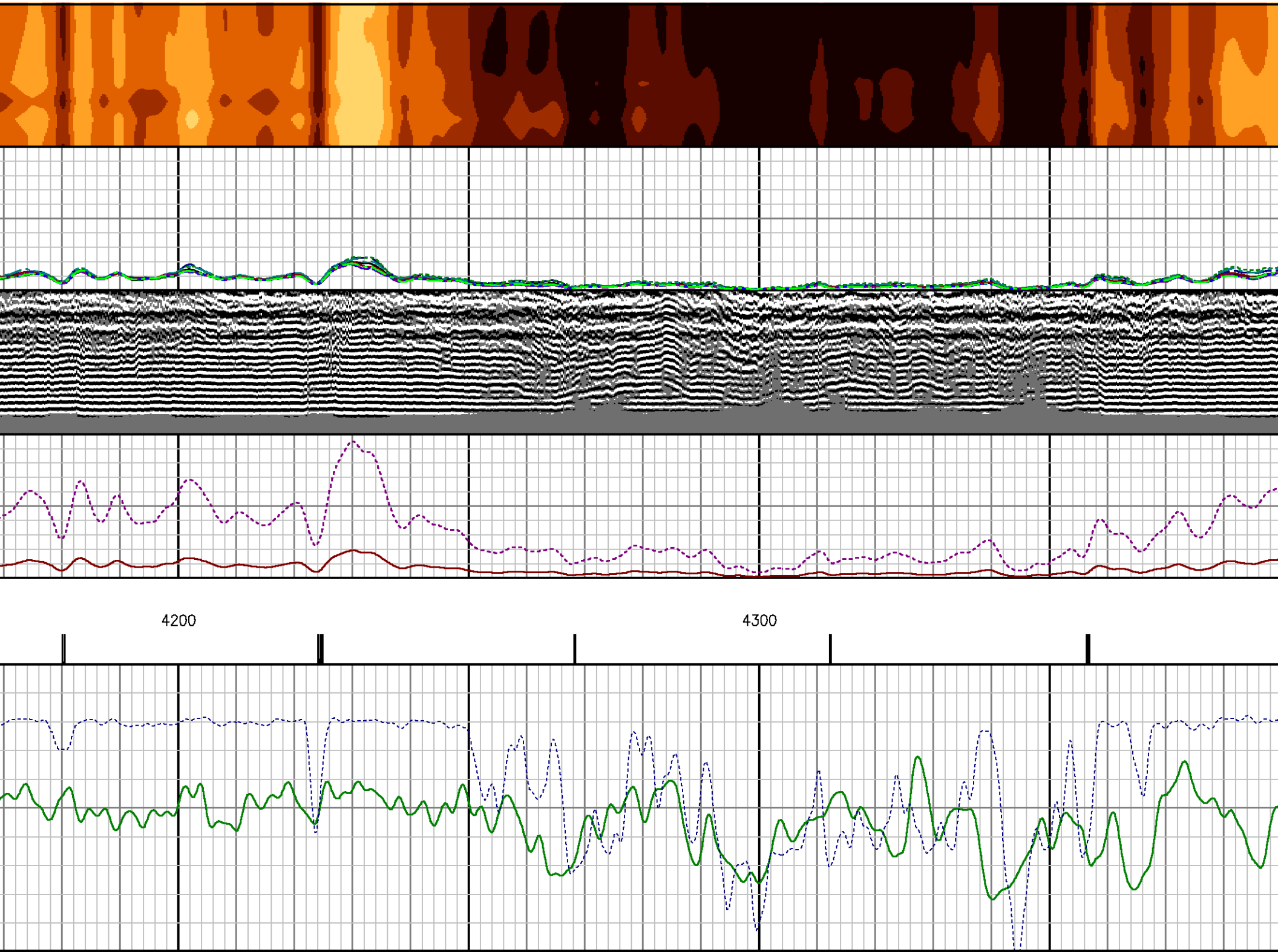
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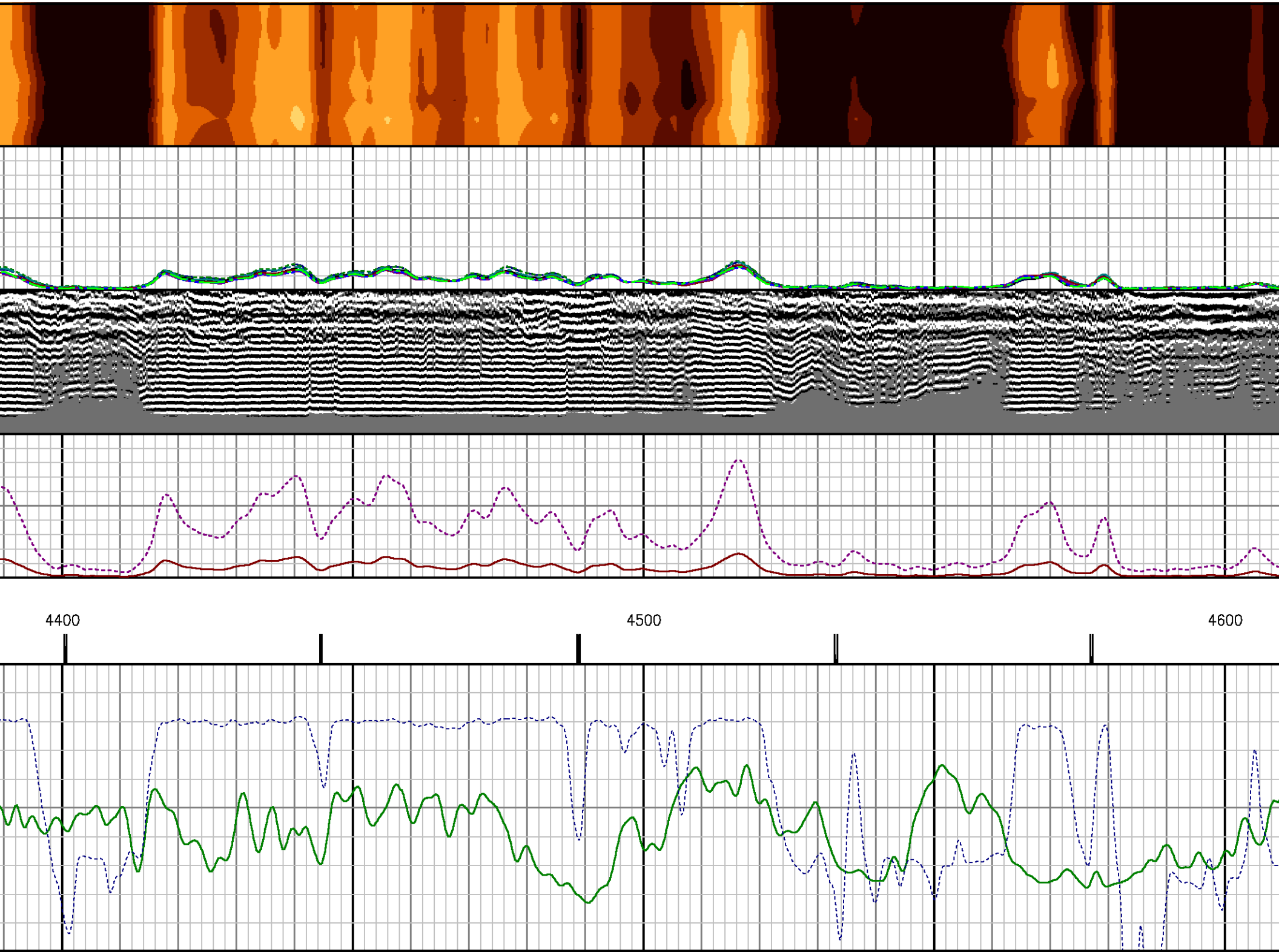
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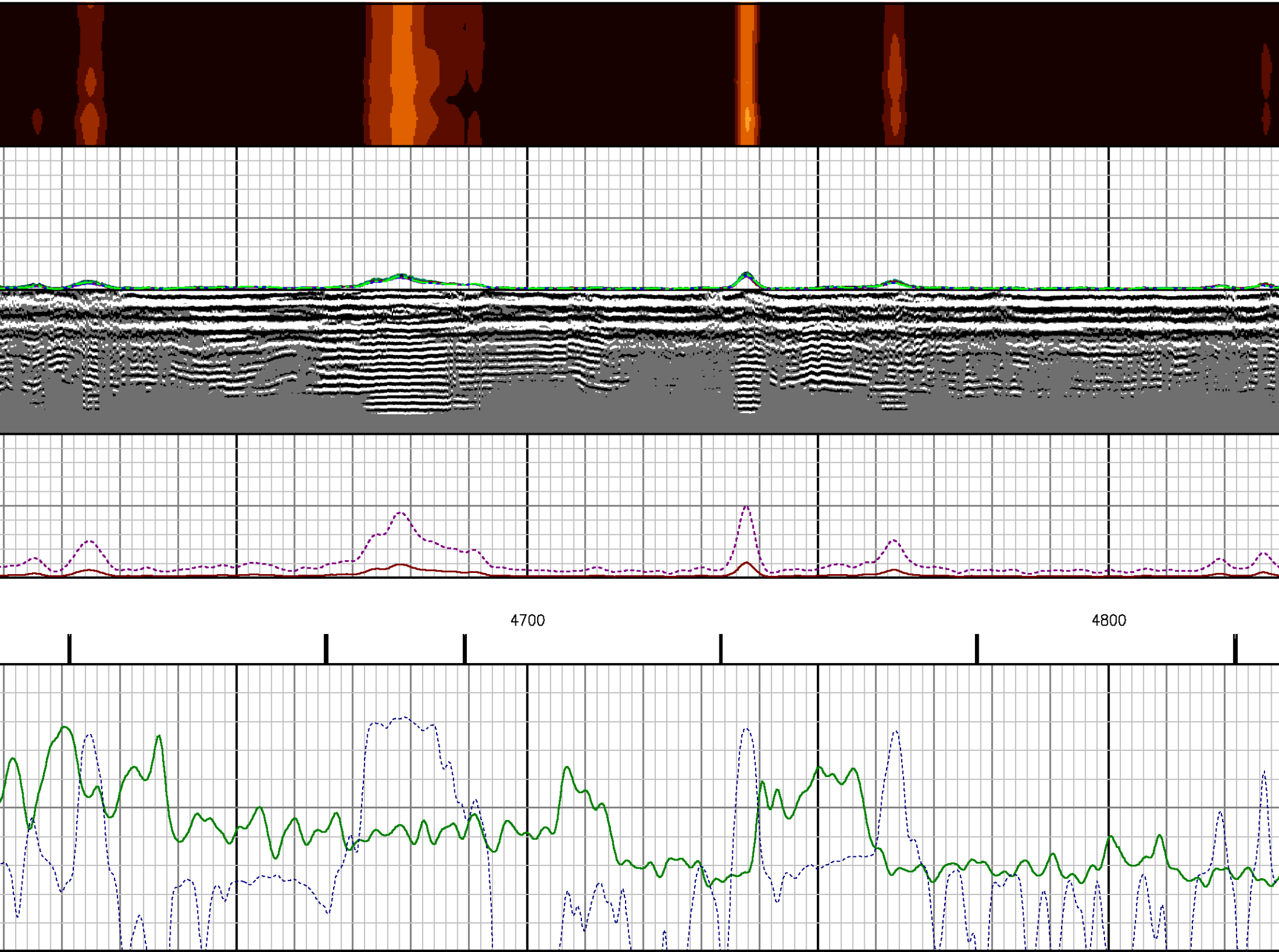
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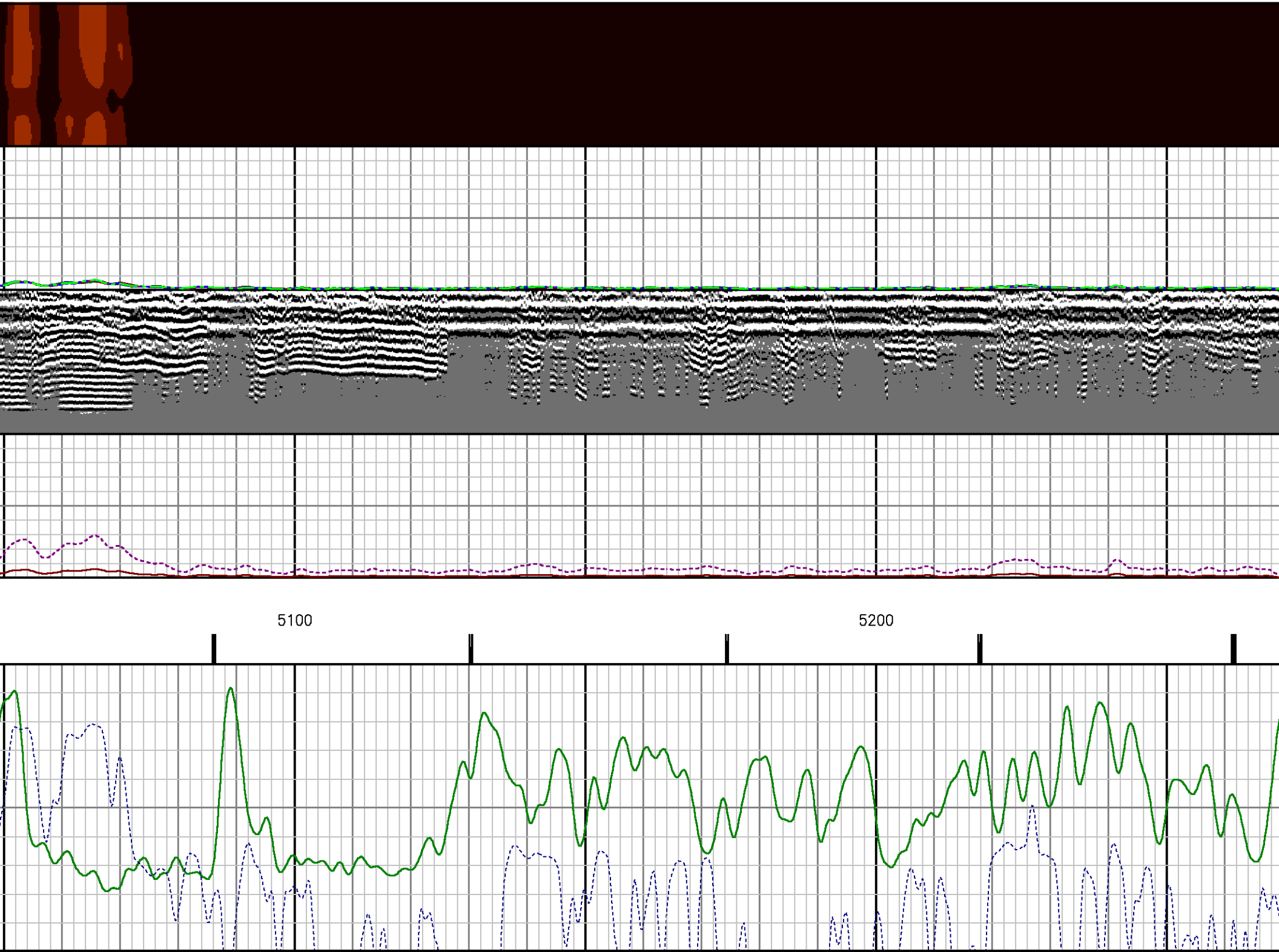
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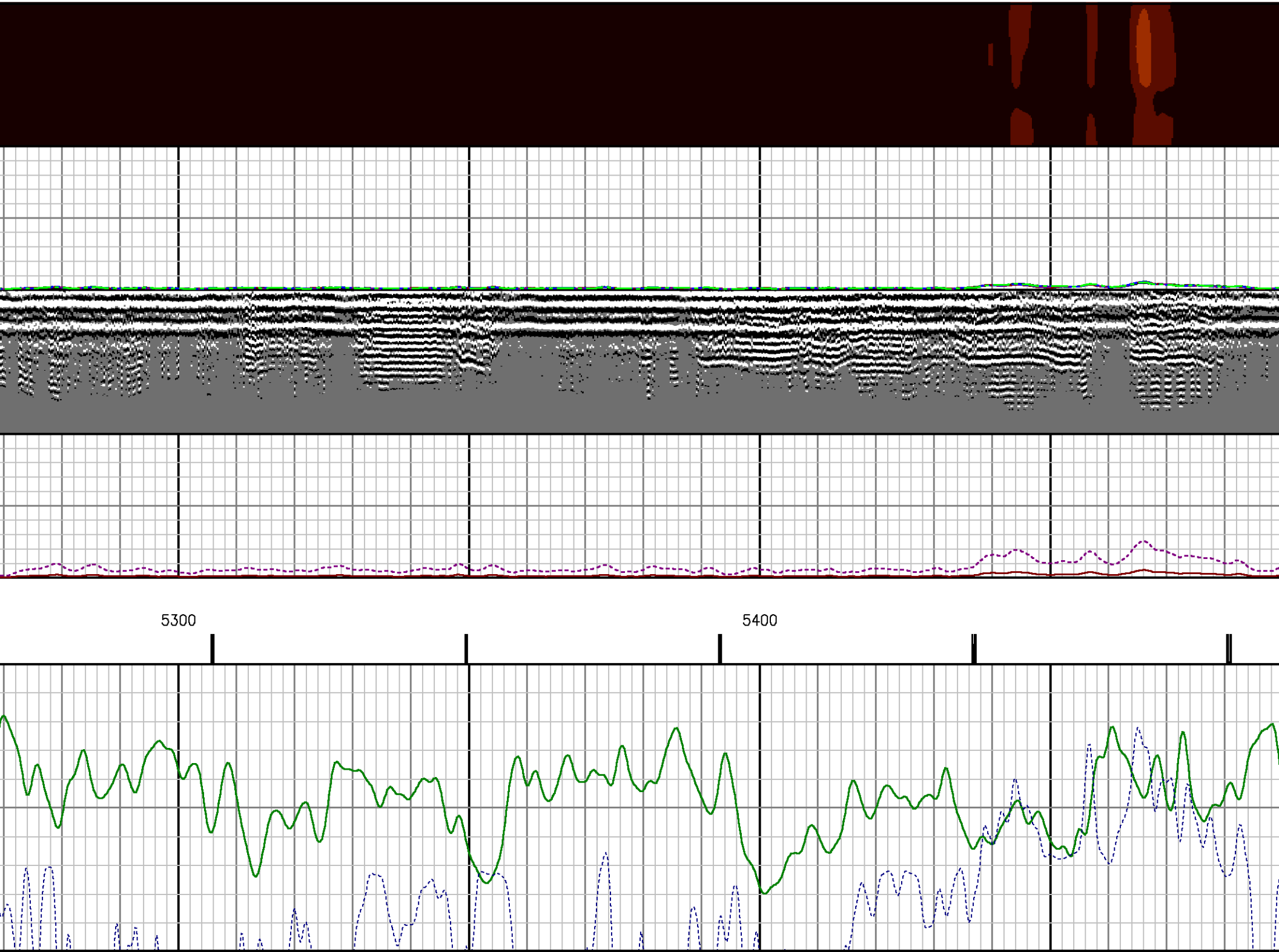
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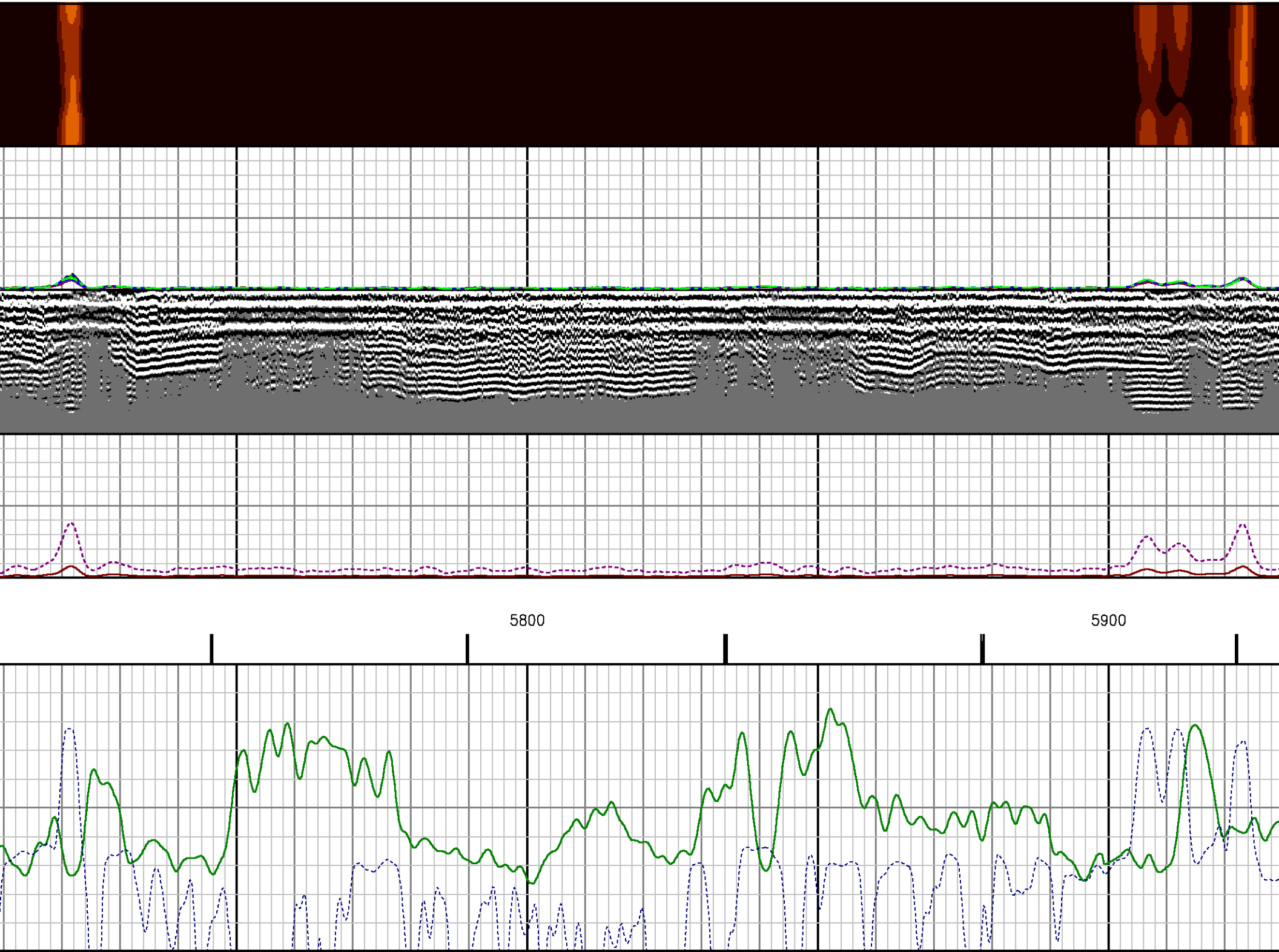
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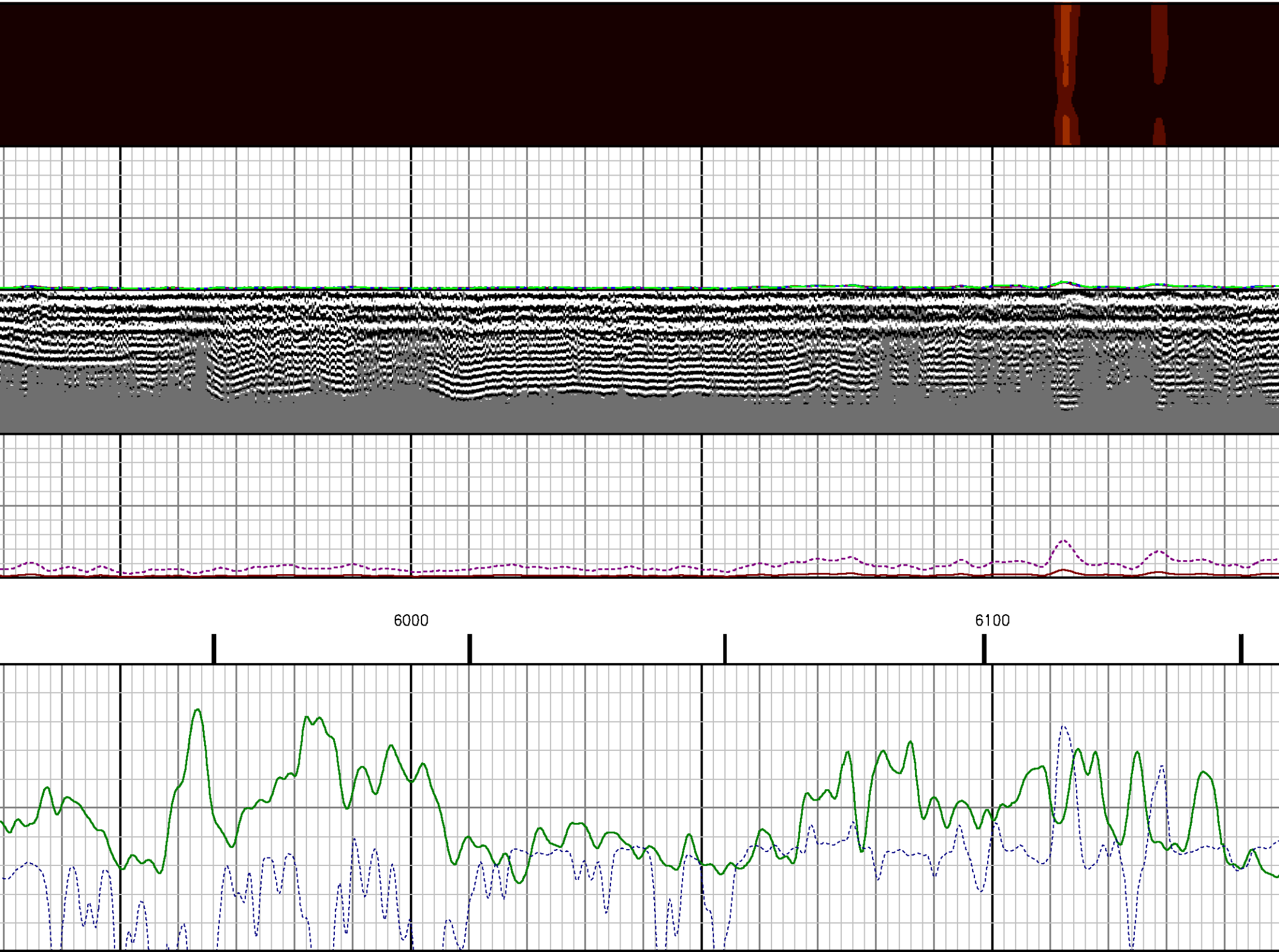
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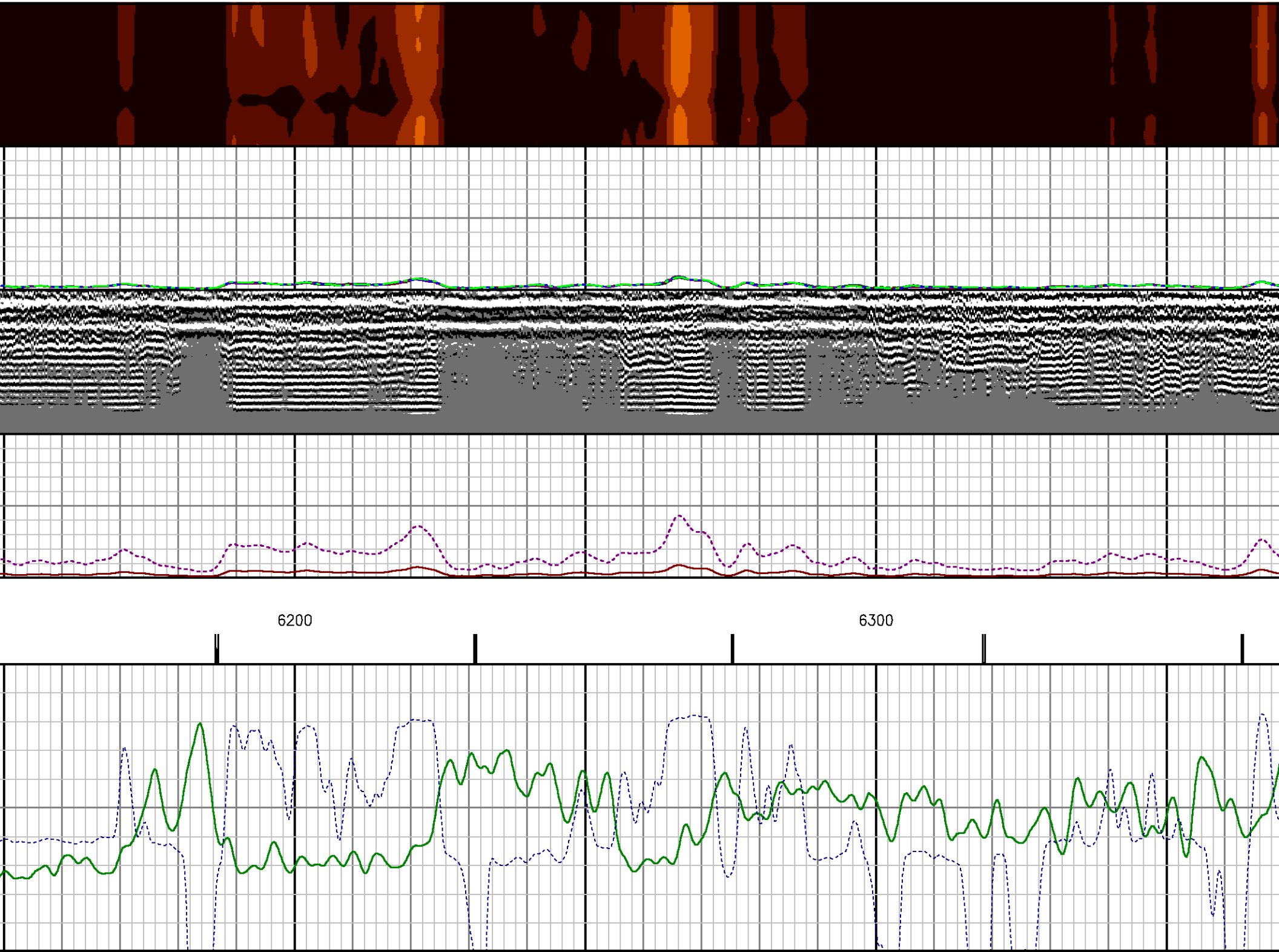
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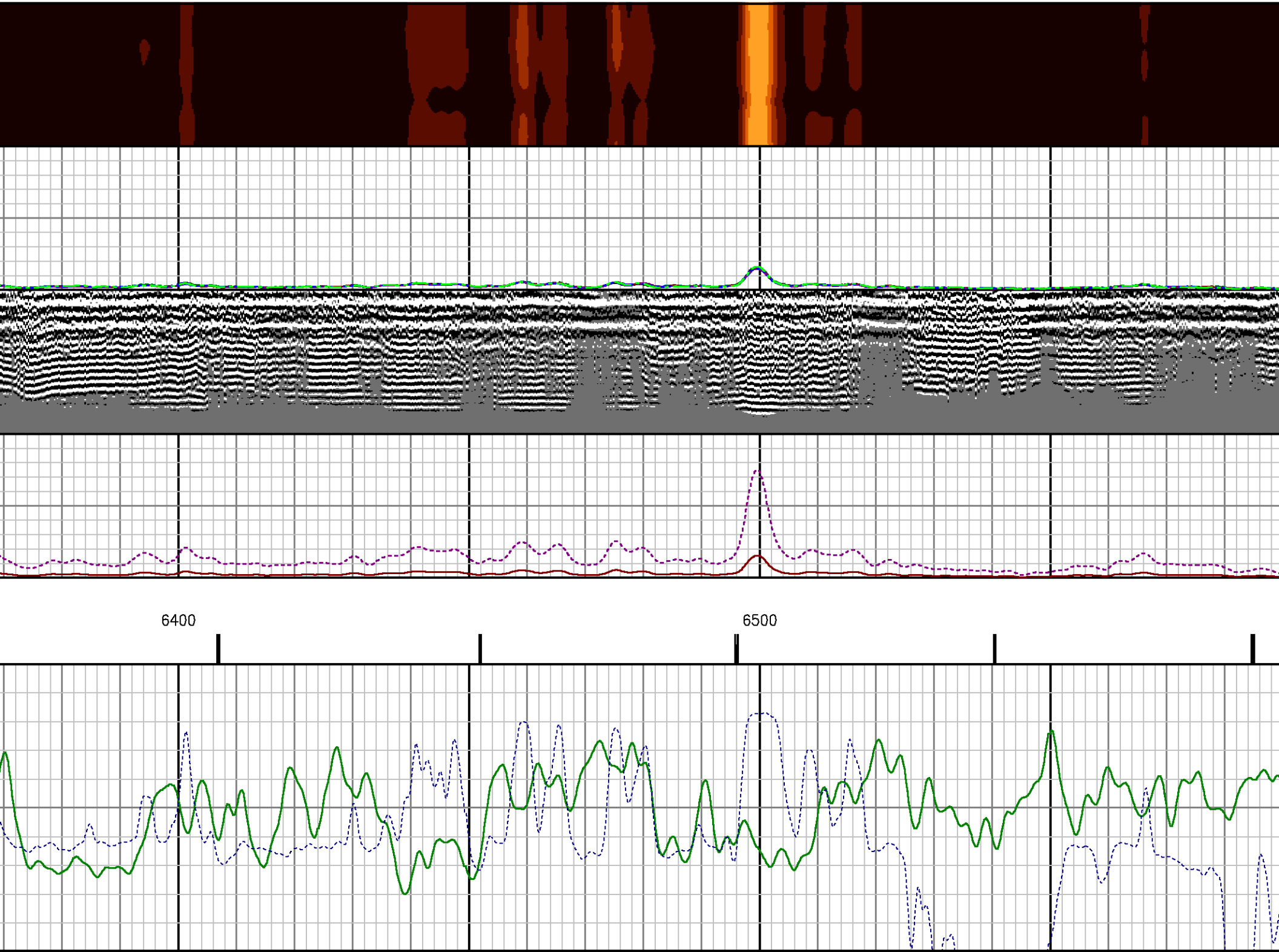
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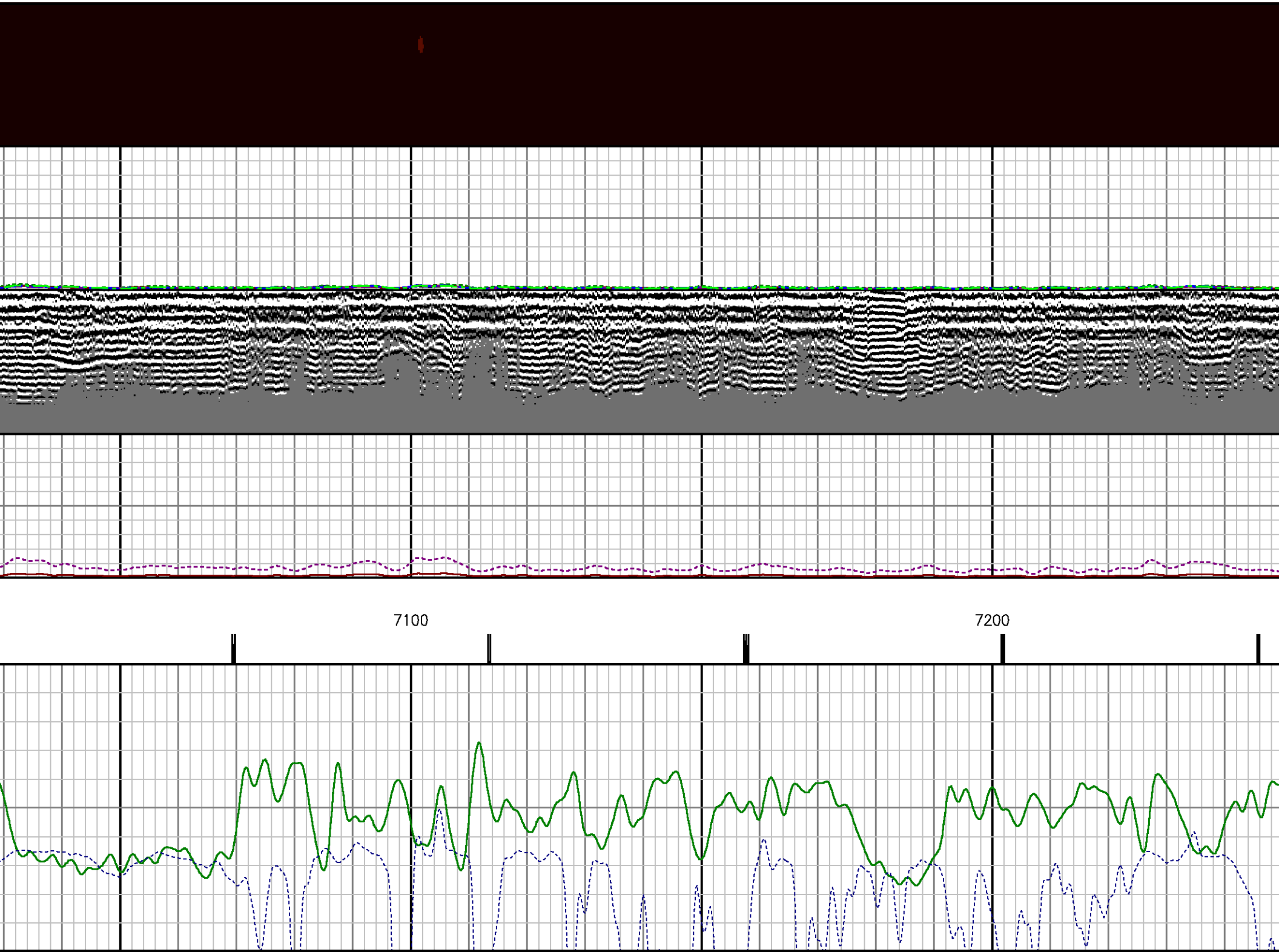
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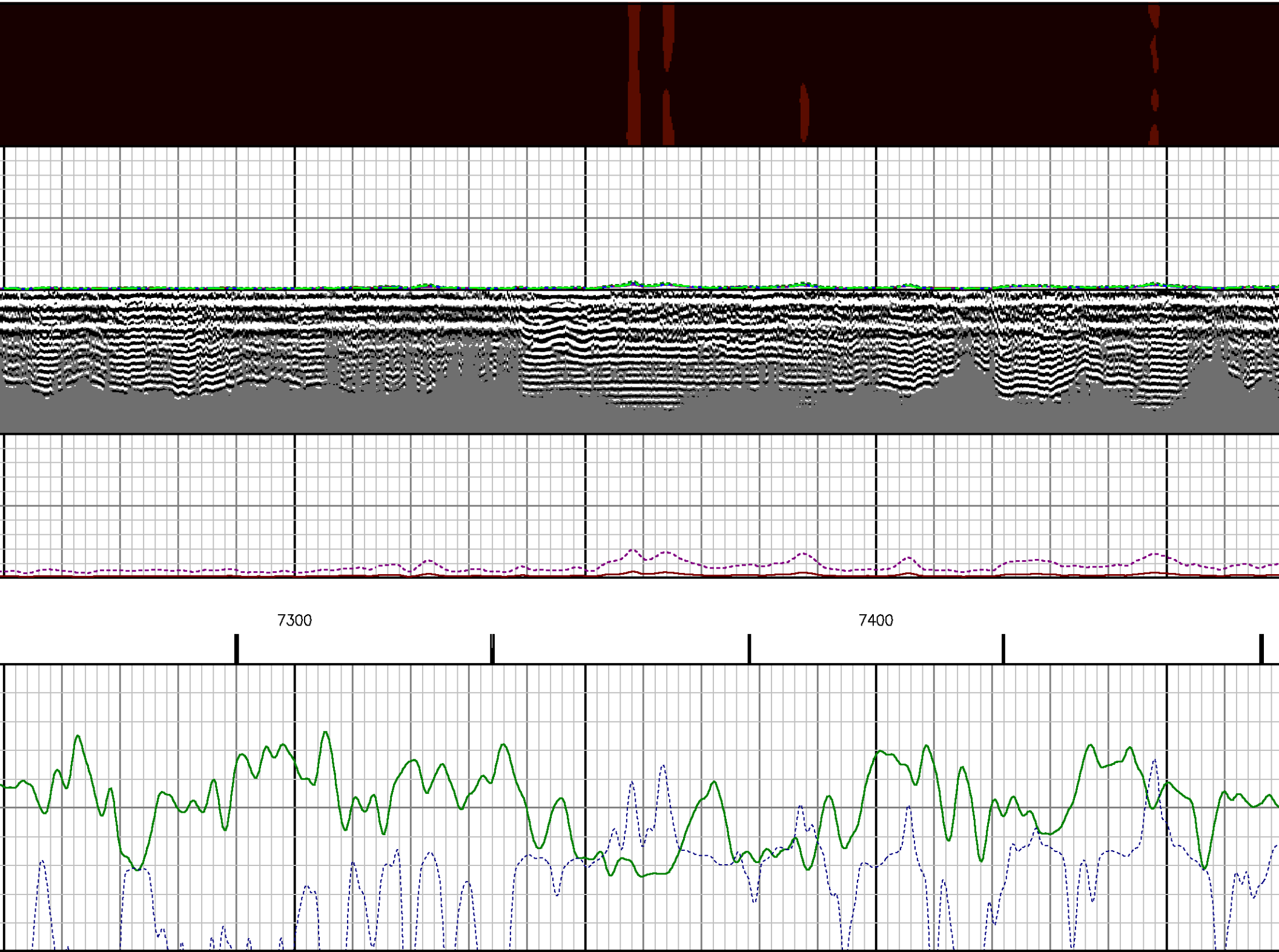
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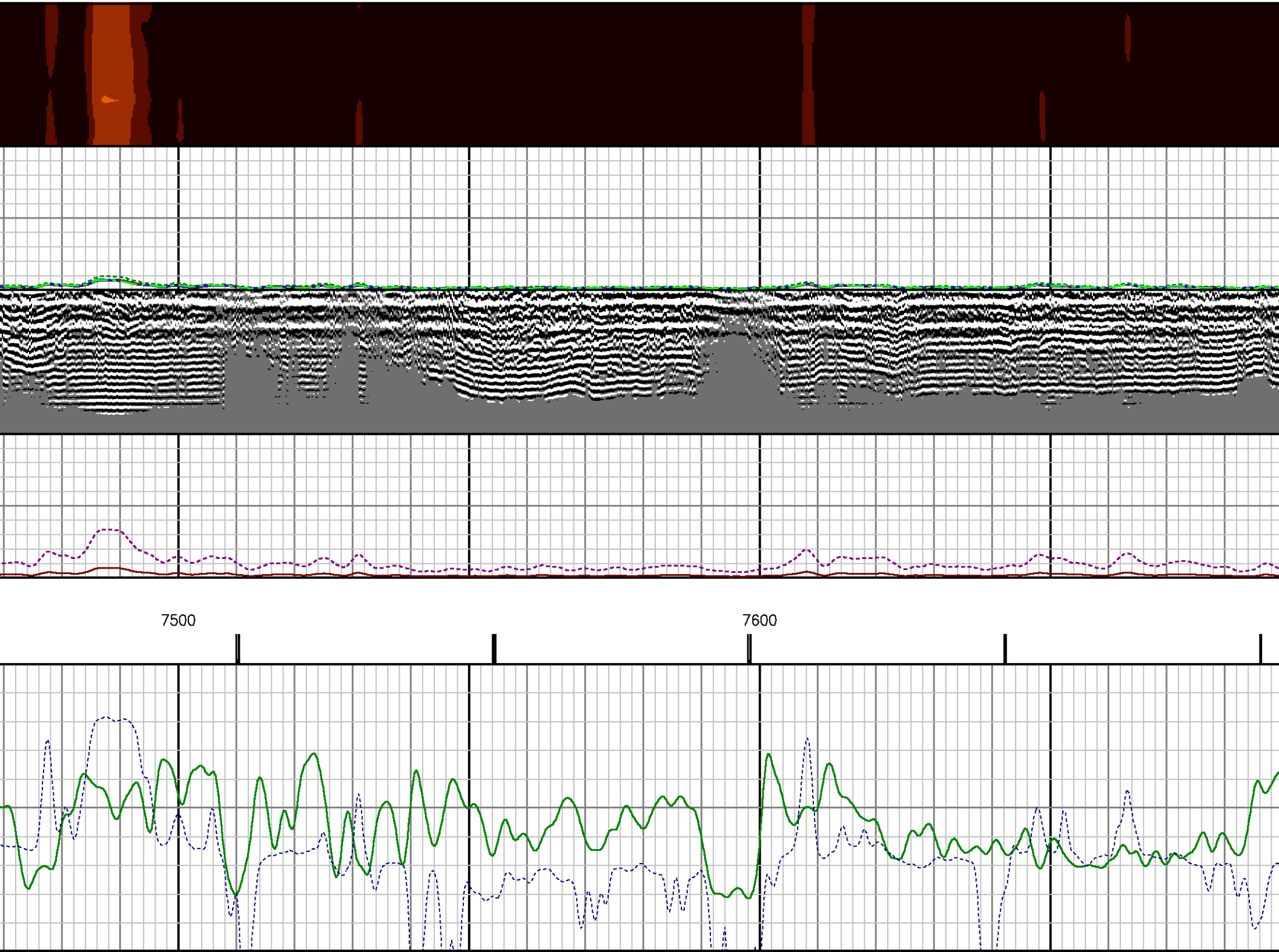
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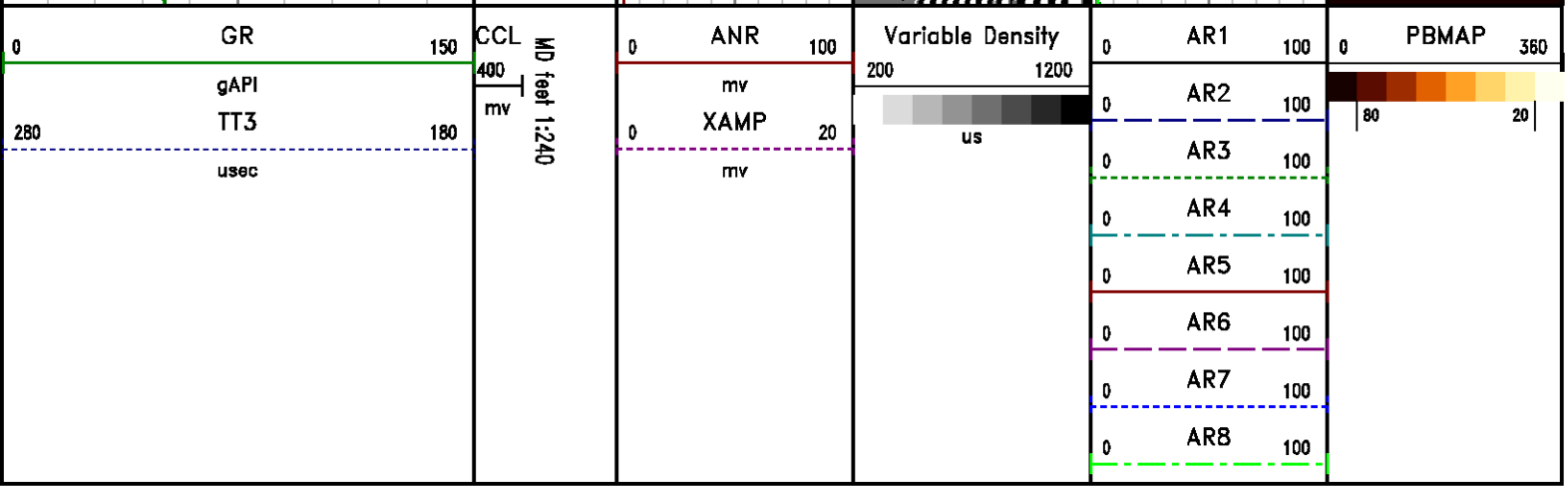


REPEAT PASS
0 PSI

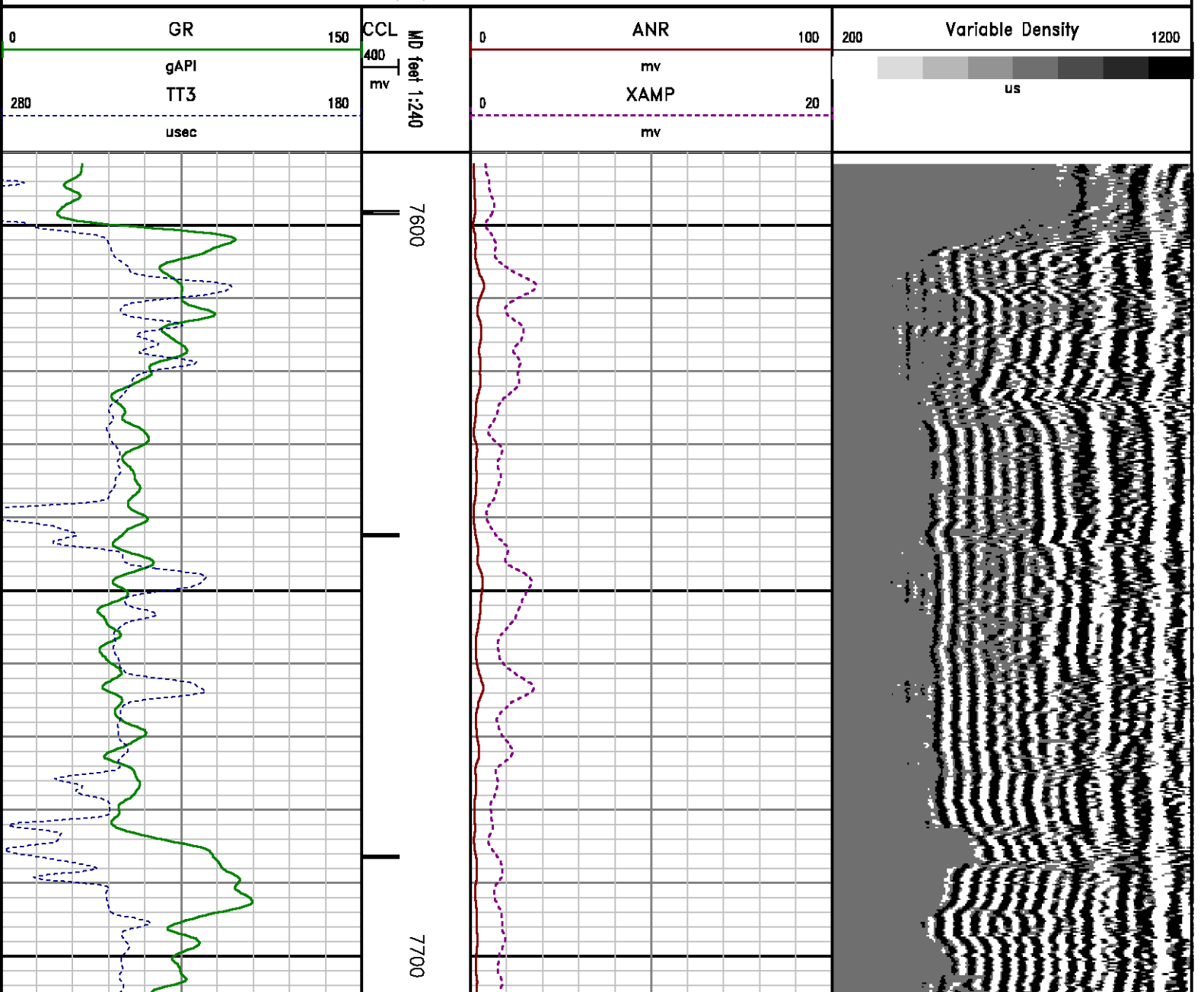
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.562	usec	7590.000	7920.000
RAL	Amp Gate Start Near	198.031	usec	7590.000	7920.000
RAL	Amp Gate Start Radial	198.031	usec	7590.000	7920.000
RAL	Amp Gate Width Far	25.000	usec	7590.000	7920.000
RAL	Amp Gate Width Near	25.000	usec	7590.000	7920.000
RAL	Amp Gate Width Radial	25.000	usec	7590.000	7920.000
RAL	casing od	4.500	inches	7590.000	7920.000
RAL	casing wt	11.600	lbm/ft	7590.000	7920.000
RAL	FB Start Far	291.900	usec	7590.000	7920.000
RAL	FB Start Near	175.391	usec	7590.000	7920.000
RAL	FB Start Radial	175.391	usec	7590.000	7920.000
RAL	FB Thresh Far	10.000	mv	7590.000	7920.000
RAL	FB Thresh Near	4.000	mv	7590.000	7920.000
RAL	FB Thresh Radial	4.000	mv	7590.000	7920.000
RAL	Fluid Travel Time	200.000	usec/ft	7590.000	7920.000

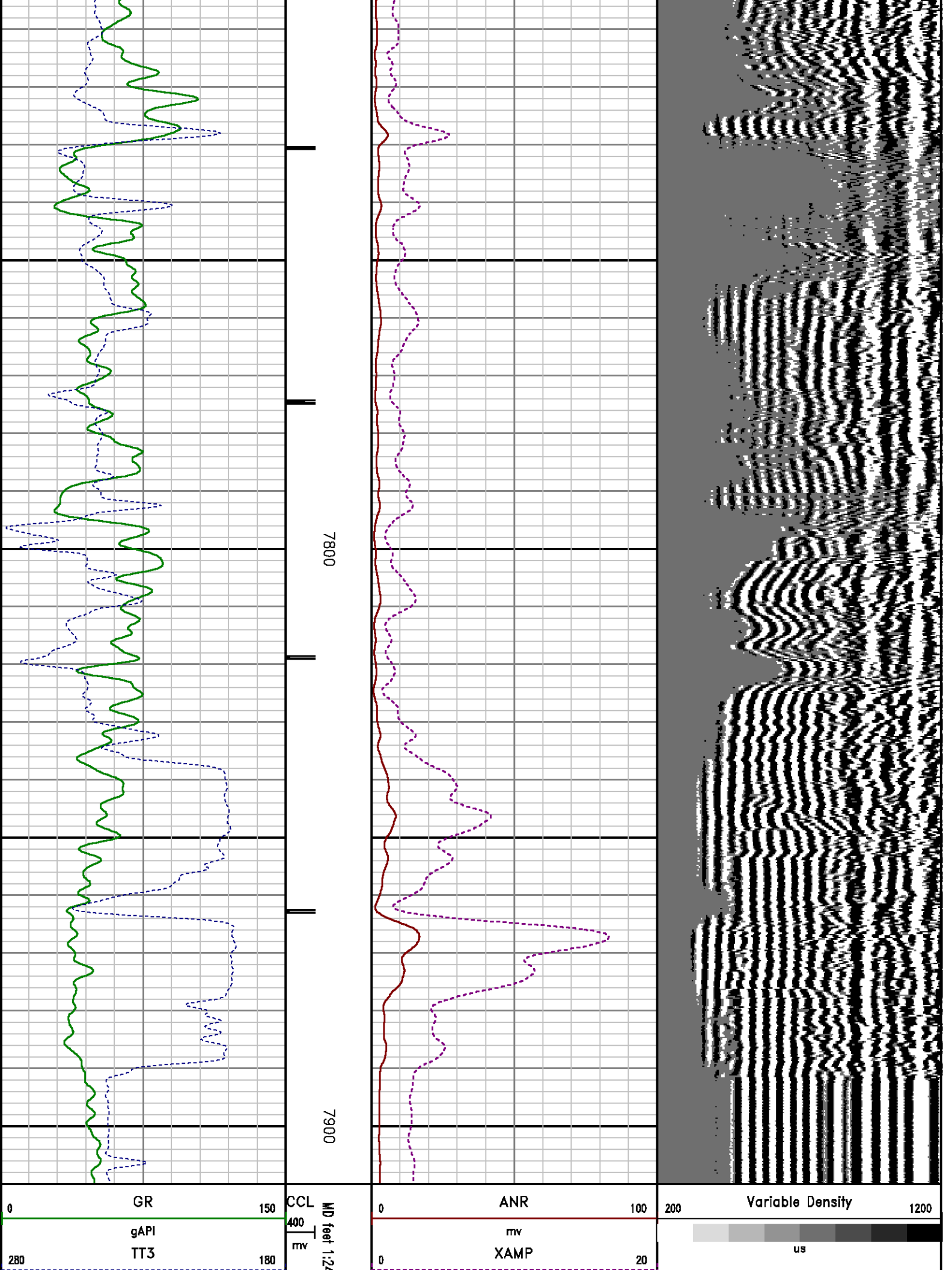
DEPTH OFFSETS
(for Acquired Curves)

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 : GOLDSBOROUGH PA 312-11
File Name : d:\welldata\312cbl\repeat_rdrr.xtf
Mode : PlotMgr 5.4.504
Interval : 7590.00 - 7910.00 feet UP
Created : 4/28/2013 11:01:11 AM

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TT3
180
CCL
400
mv
MD feet 1:24
0
ANR
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mv
0
XAMP
20
200
Variable Density
1200
us

usec | mv

CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106A28_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Apr 28 10:31:24 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A28

Tool Delay [usec]	Tank OD in	Tank Wt lbm/ft	Tank ID in
-58.00	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	218	216	30	166	25	-0.073	100.00	0.18
3 Ft. Receiver	218	216	30	166	25	-1.112	100.00	0.17
5 Ft. Receiver	326	324	30	258	25	0.211	150.00	0.19
Radial #1	218	216	30	166	25	-1.318	100.00	0.17
Radial #2	217	216	30	166	25	-1.493	100.00	0.17
Radial #3	218	216	30	166	25	-1.582	100.00	0.17
Radial #4	218	216	30	166	25	-2.151	100.00	0.17
Radial #5	218	216	30	166	25	-1.989	100.00	0.17
Radial #6	218	216	30	166	25	-1.690	100.00	0.17
Radial #7	218	216	30	166	25	-1.628	100.00	0.17
Radial #8	218	216	30	166	25	-1.584	100.00	0.17

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106A28_fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Apr 28 10:32:35 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A28

Tool Delay [usec]	Casing OD in	Casing Wt lbm/ft	Casing ID in
-58.00	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	-0.071	0.000	1.00	100.000
3 Ft. Receiver	200	30	-0.850			

5 Ft. Receiver	317	30	-0.797
Radial #1	200	30	-1.701
Radial #2	200	30	-1.313
Radial #3	200	30	-1.119
Radial #4	200	30	-1.122
Radial #5	200	30	-0.934
Radial #6	200	30	-0.871
Radial #7	200	30	-0.675
Radial #8	200	30	-0.757

GAMMA RAY

Calibration File: C:\case\calver\GR\209A1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 11 12:00:10 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	147.33	600.49	0.408	60.15	245.15	185.00

Verification File: C:\case\calver\GR\209A1.VP

PRIMARY LOG VERIFICATION

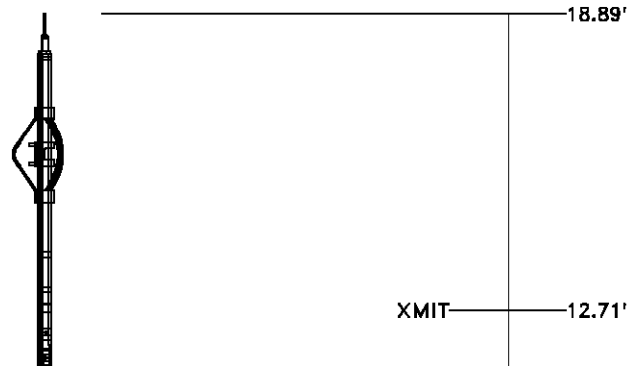
DATE/TIME PERFORMED: Thu Apr 11 12:01:16 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	149.69	589.51	0.408	61.11	240.67	179.56

TOOL DIAGRAM

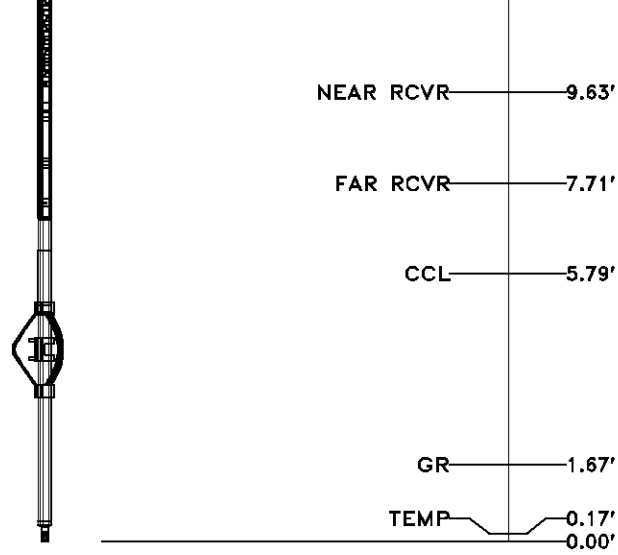
OTA SHORT CABLE HEAD

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



Measure Point	3.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

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

Baker Atlas

Company	WPX ENERGY		File No: CH071539
Well	GOLDSBOROUGH PA 312-11		API No: 05045218230000
Field	PARACHUTE		
County	GARFIELD	State COLORADO	

Location	Elevations	
SHL: 2412' FNL & 2030' FWL SEC:11	KB 6300 ft	11 7S 95W
BHL: 1749' FNL & 589' FWL SEC:11	DF	PA 22-11
	GL 6274 ft	CYCLONE 17
SEC 11 TWP 7S RGE 95W		