BAKER HUGHES

Baker Atlas

RADIAL ANALYSIS BOND LOG

File No:	CH085272
API No:	05045221490000
Company	WPX ENERGY
Well	WPX ENERGY PA 524-2
Field	PARACHUTE
County	GARFIELD
State	COLORADO

Location

2 7S 95W

GV 86-2 PAD

AZTEC 1000

SHL: 2001' FSL & 1575' FWL

BHL: 184' FSL & 2105' FWL (SESW)

SEC 2 TWP 7S RGE 95W

Other Services

RPM

Permanent Datum	GL	Elevation	5821 ft
Log Measured From	KB	25 ft	Above P. D.
Drill Measured From	KELLY BUSHING		

Elevations

KB 5846 ft

DF

GL 5821 ft

Date		29/APR/14	
Run		ONE	
Service Order		US085272J	
Depth Driller		7799 ft	
Depth Logger		7774 ft	
Bottom Logged Interval		7764 ft	
Top Logged Interval		25 ft	
Time Started		0800	
Time Finished		1200	
Operator Rig Time		4 HRS	
Type of Fluid in Hole		WATER	
Fluid Density		NA	
Salinity		NA	
Fluid Level		69 ft	
Logged Cement Top		NA	
Wellhead Pressure		0 psi	
Maximum Hole Deviation		NA	
Nominal Logging Speed		65 fpm	
Maximum Recorded Temperature		226 degF	
Reference Log		NONE	
Reference Log Date		NA	
Equipment No.	Location	4271	GRAND JCT
Recorded By		FLOYD RENEAU	
Witnessed By		DUSTIN WELSH	

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Casing Record

Size	Weight	Grade	From	To
9.625 in			25 ft	884 ft
4.5 in	11.6 lbm/ft	I-80	25 ft	7799 ft

Borehole Record

Bit Size	From	To
13.5 in	25 ft	884 ft
8.75 in	884 ft	7799 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 12 feet.

Logged with zero PSI at wellhead.

BHT = 226°F

SJ = 4273'-4297'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10218496	CENT
1	1	GR/CCL	2459XA	10417456	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.156	7776.000
RAL	Amp Gate Start Near	195.000	usec	35.156	7776.000
RAL	Amp Gate Start Radial	195.000	usec	35.156	7776.000
RAL	Amp Gate Width Far	25.000	usec	35.156	7776.000
RAL	Amp Gate Width Near	25.000	usec	35.156	7776.000
RAL	Amp Gate Width Radial	25.000	usec	35.156	7776.000
RAL	casing od	4.500	inches	35.156	7776.000
RAL	casing wt	11.600	lbm/ft	35.156	7776.000
RAL	FB Start Far	291.900	usec	35.156	7776.000
RAL	FB Start Near	180.000	usec	35.156	7776.000
RAL	FB Start Radial	18.000	usec	35.156	7776.000
RAL	FB Thresh Far	10.000	mv	35.156	7776.000
RAL	FB Thresh Near	4.000	mv	35.156	7776.000
RAL	FB Thresh Radial	4.000	mv	35.156	7776.000
RAL	Fluid Travel Time	200.000	usec/ft	35.156	7776.000

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : WPX ENERGY PA 524-2

File Name : d:\welldata\wpx\pa 524-2\524ral\main.xtf

Mode : PlotMgr 5.4.504

Interval : -3.00 - 7776.00 feet UP

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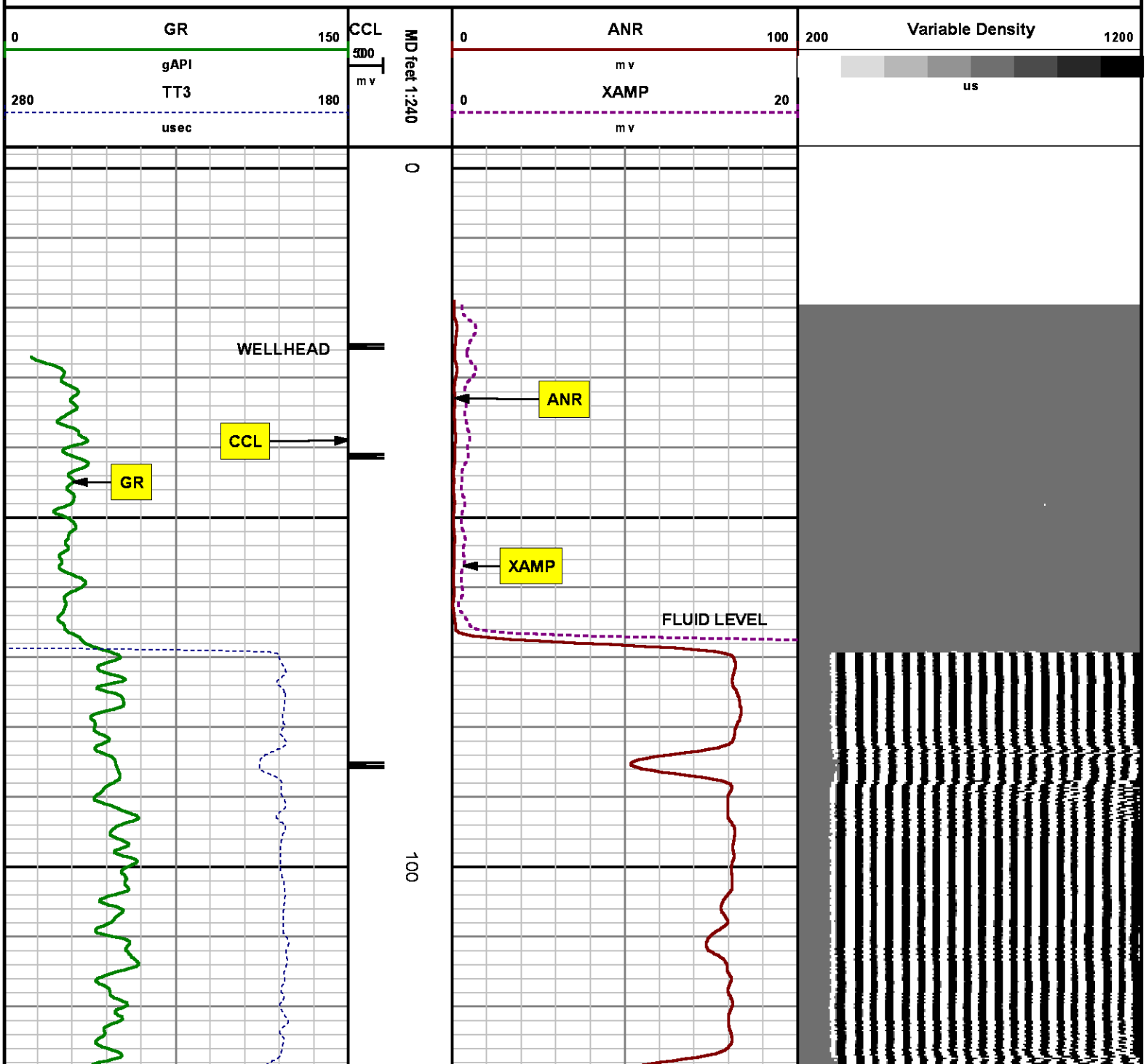

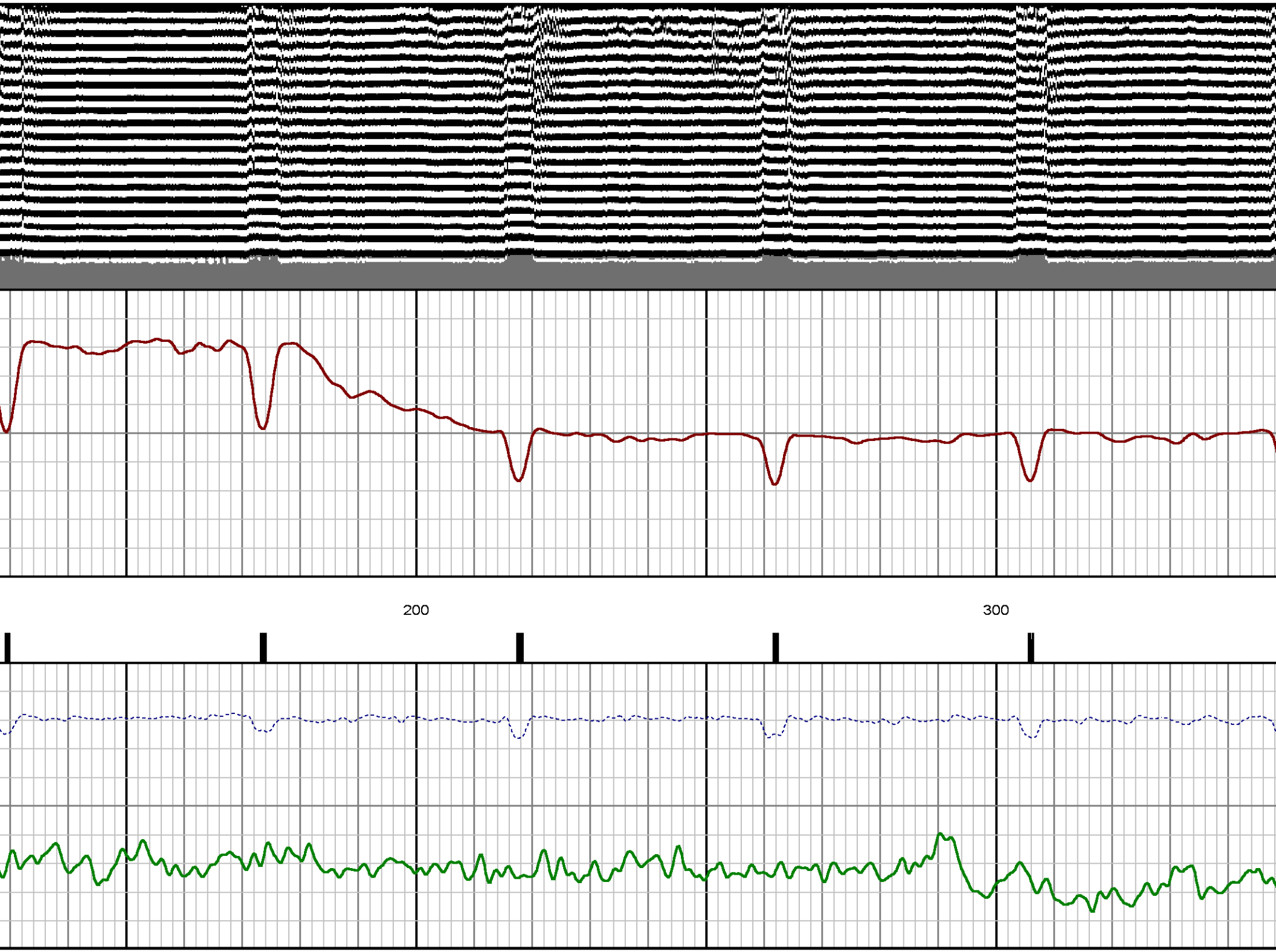
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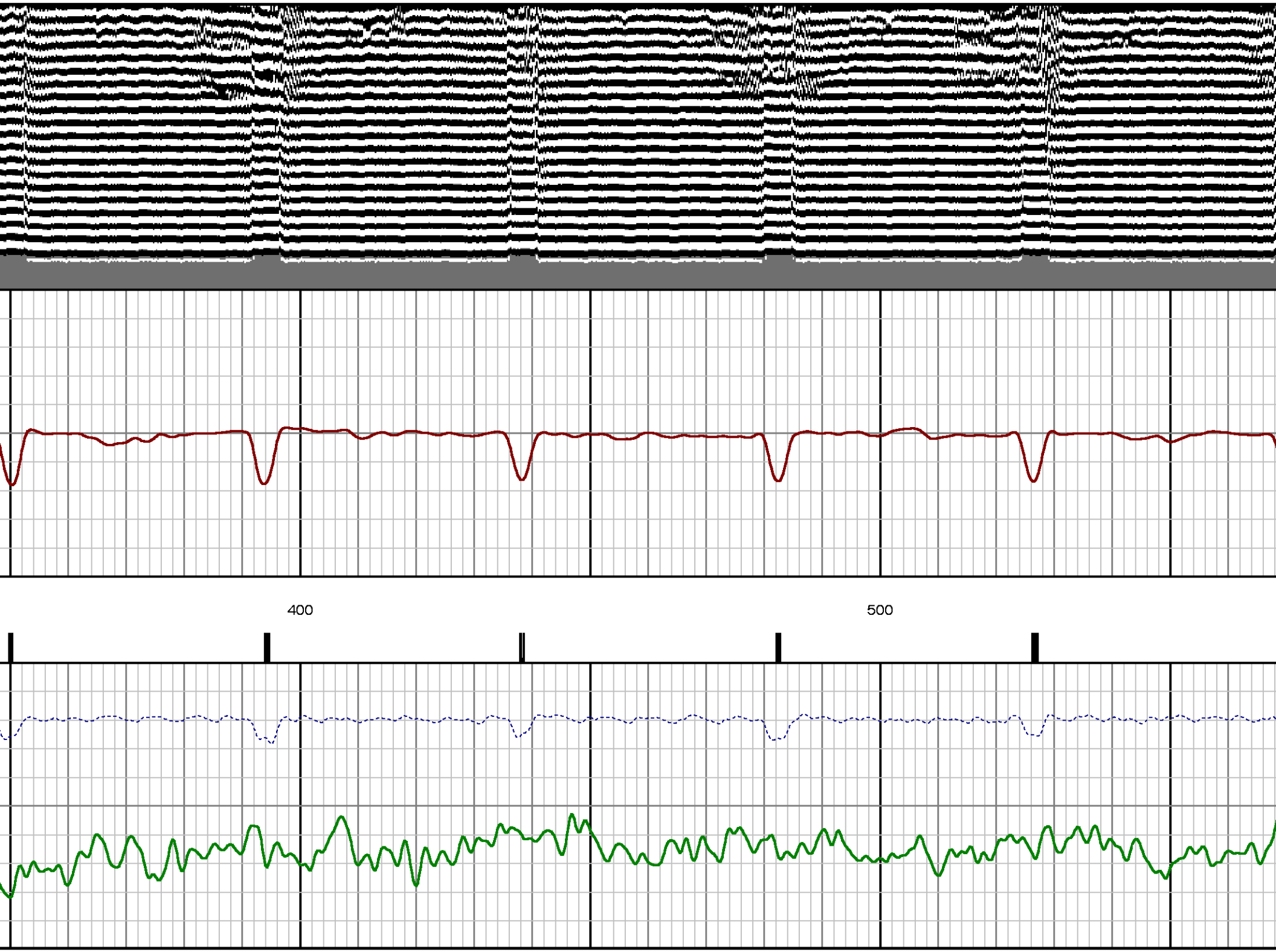
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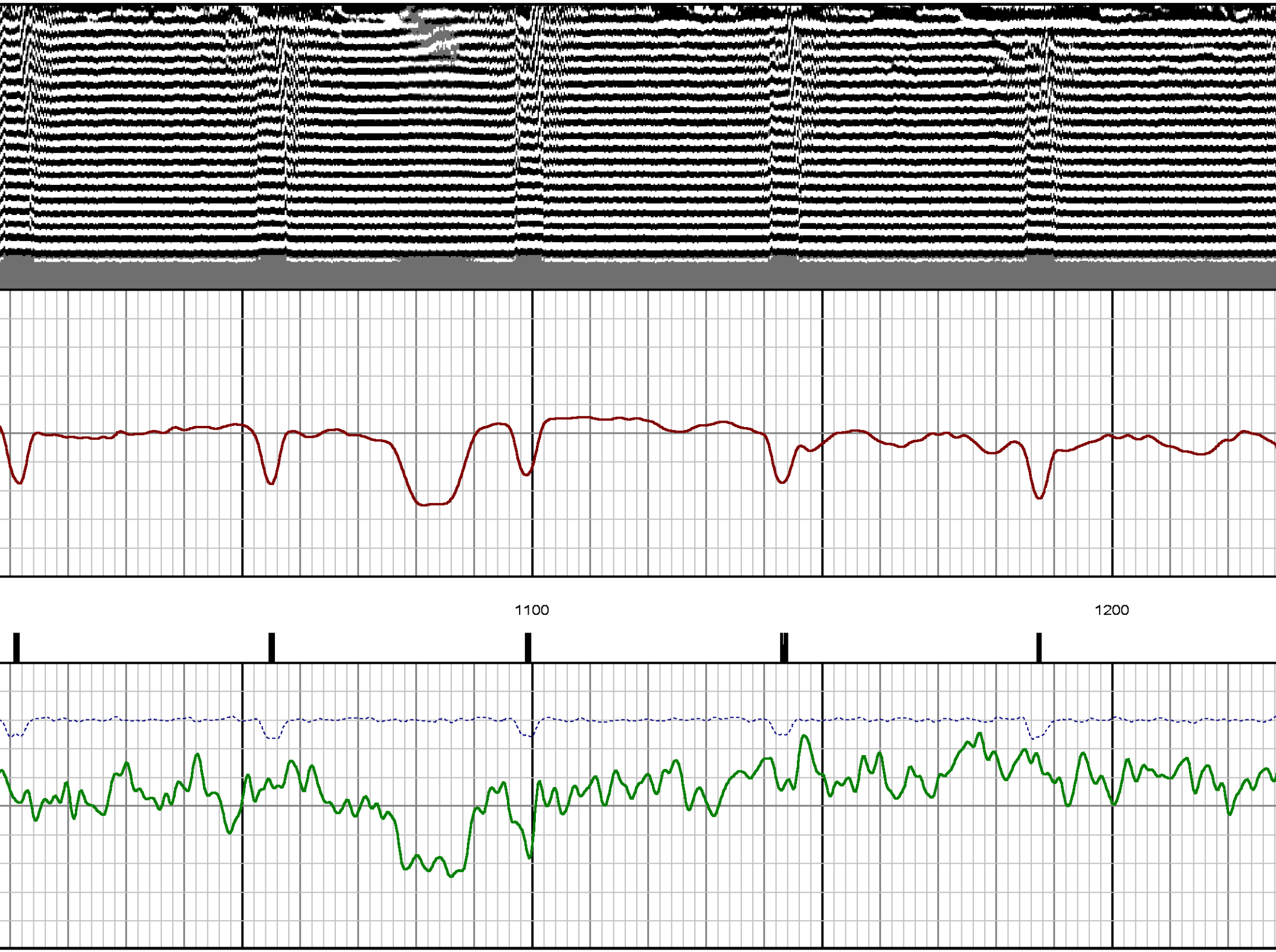
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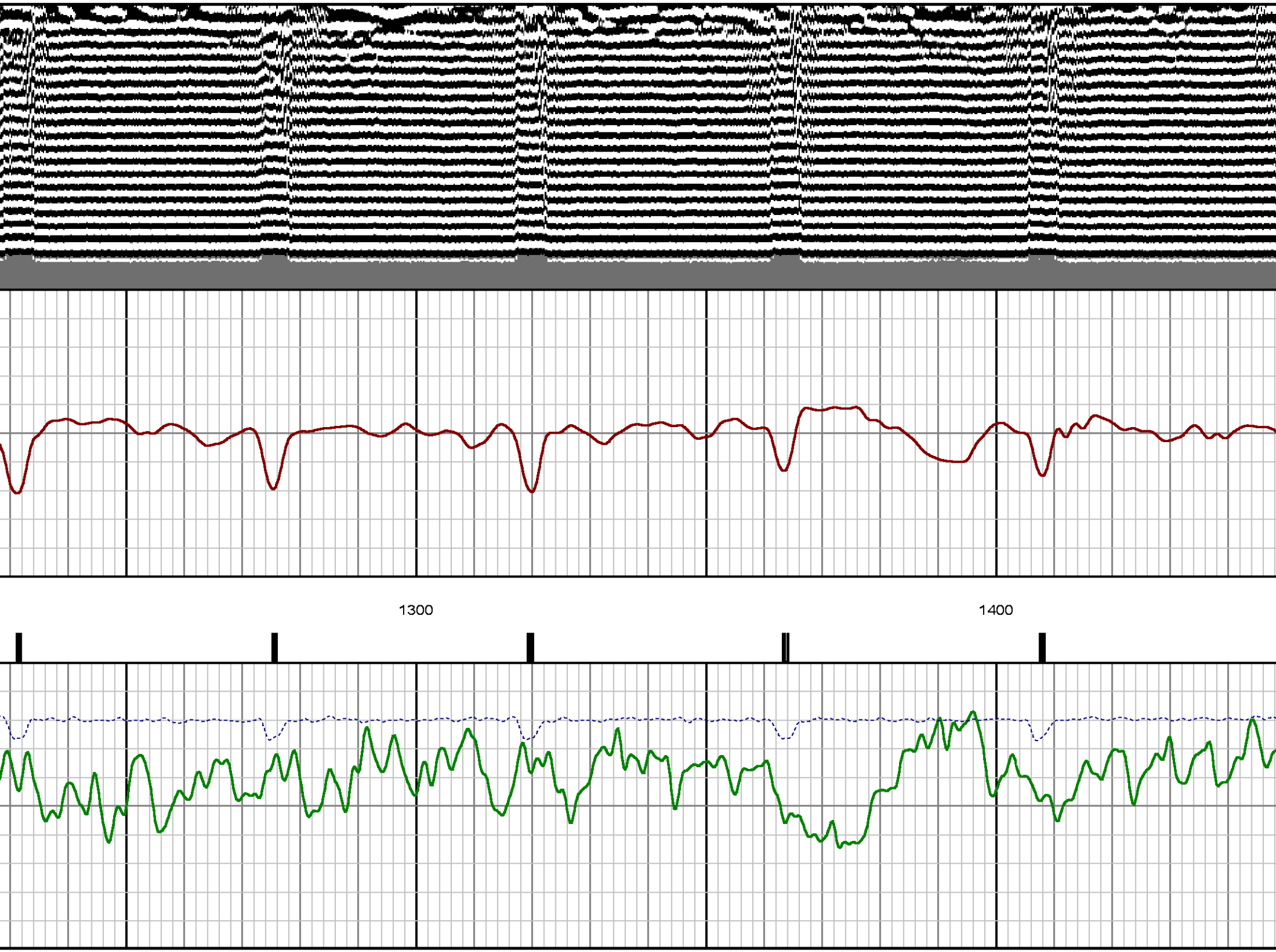
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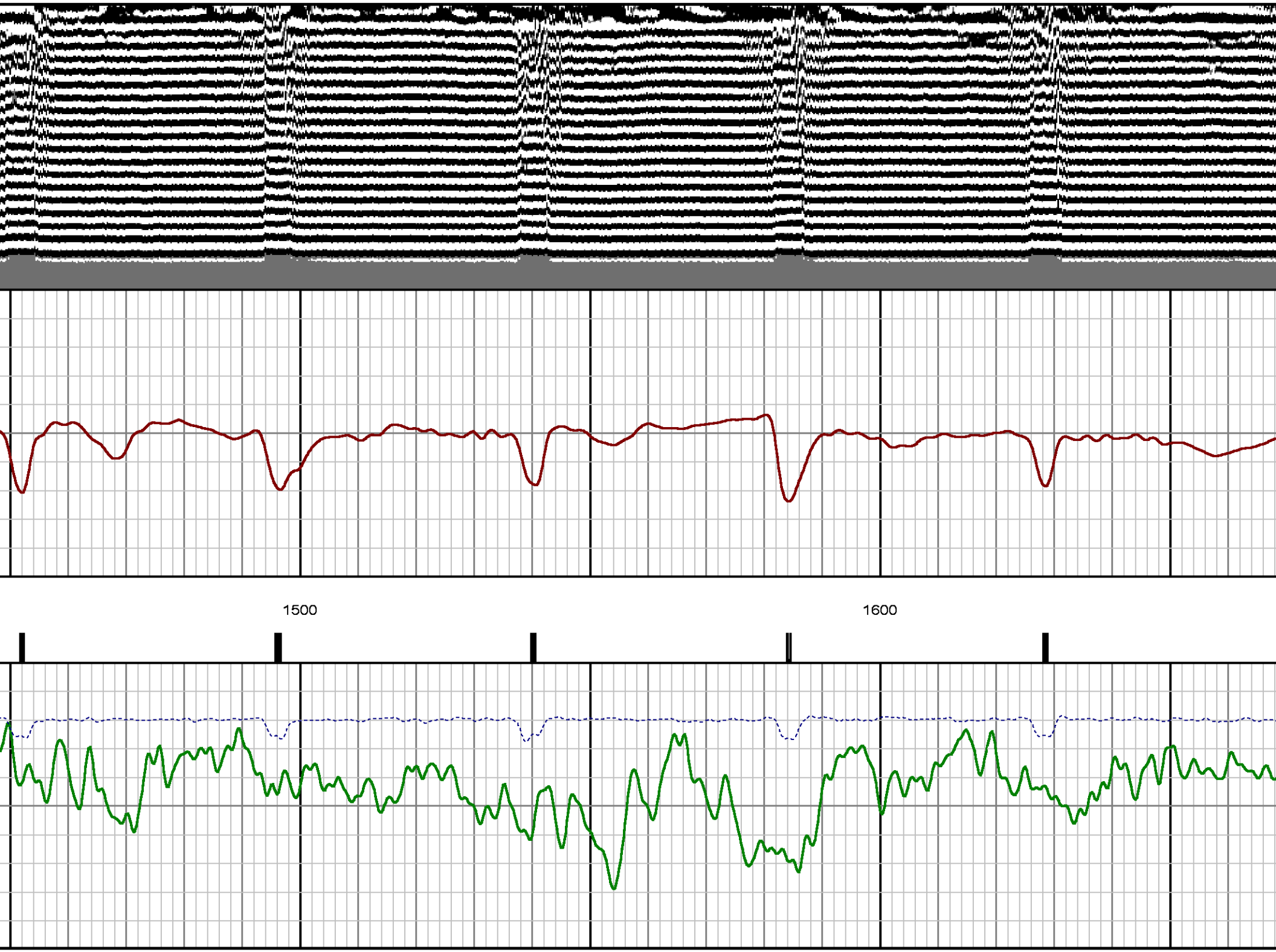
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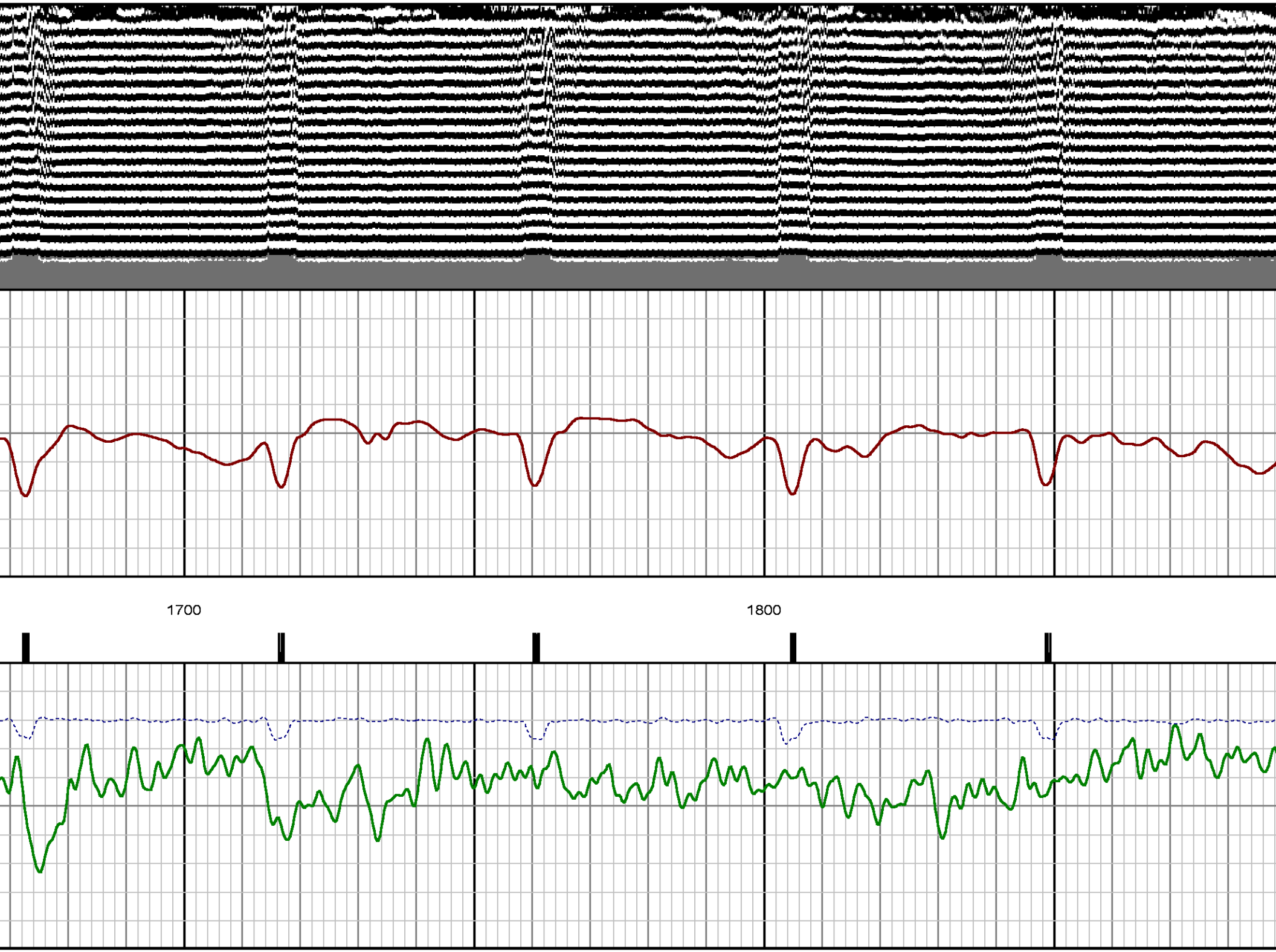
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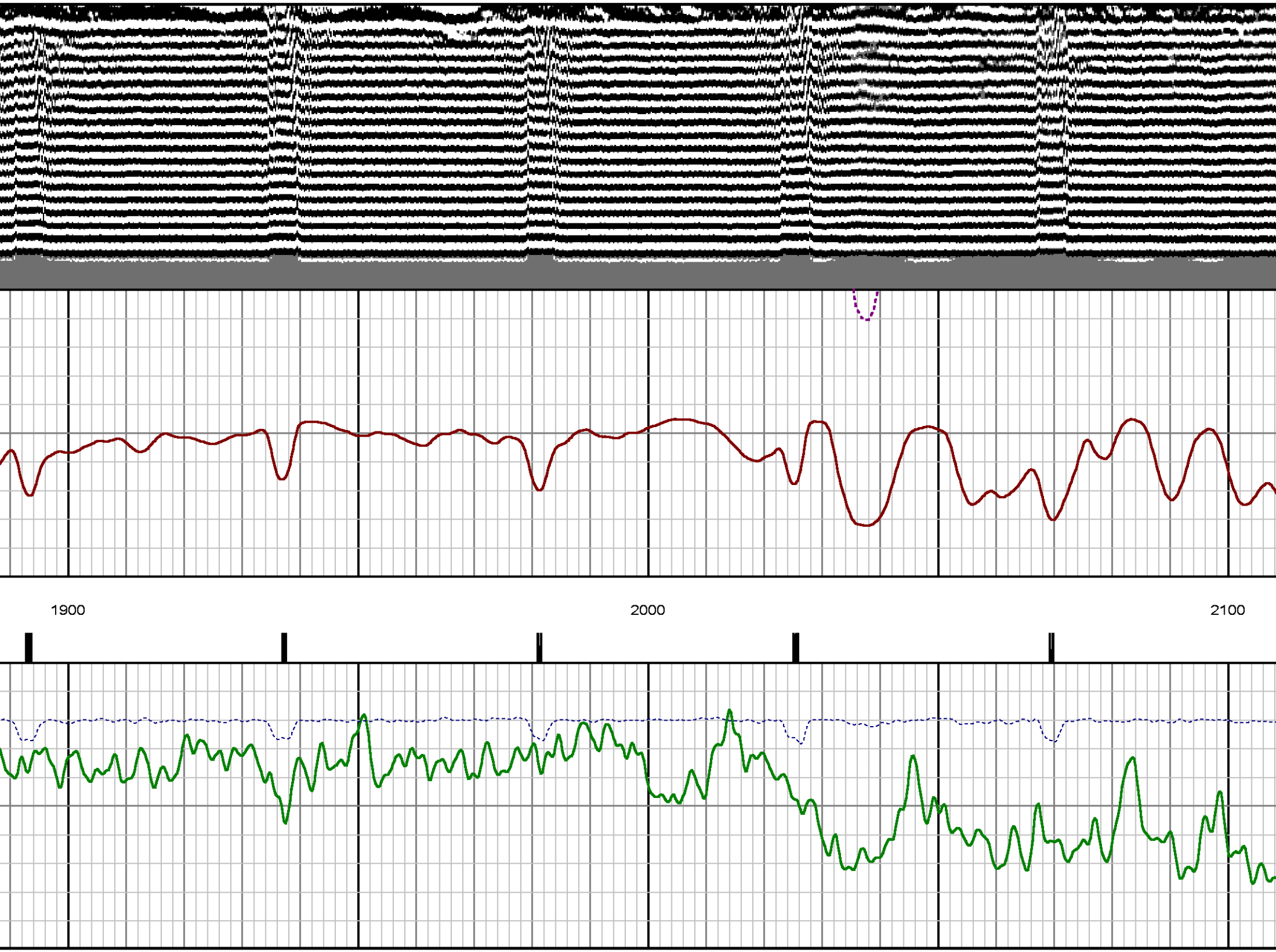
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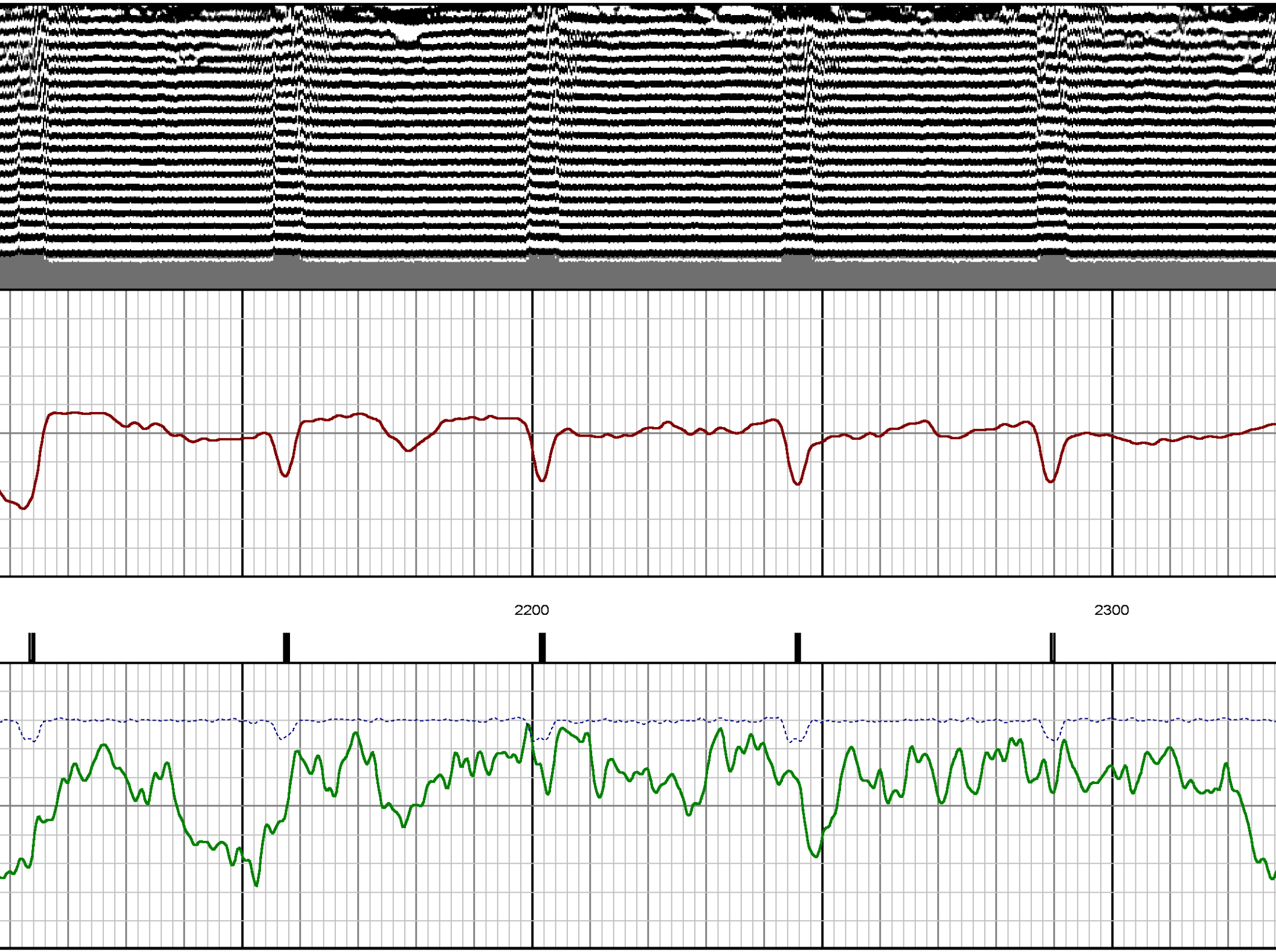
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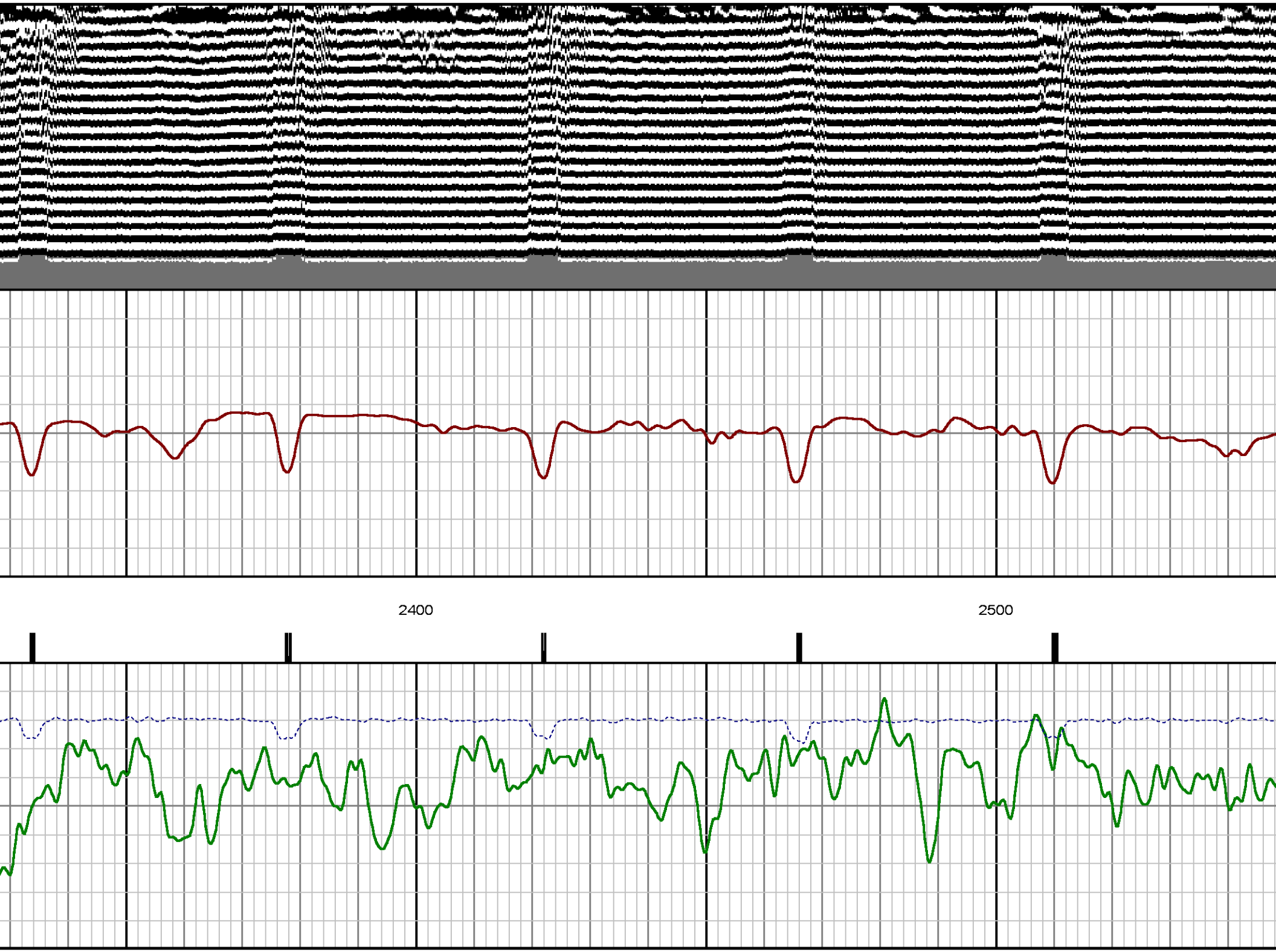
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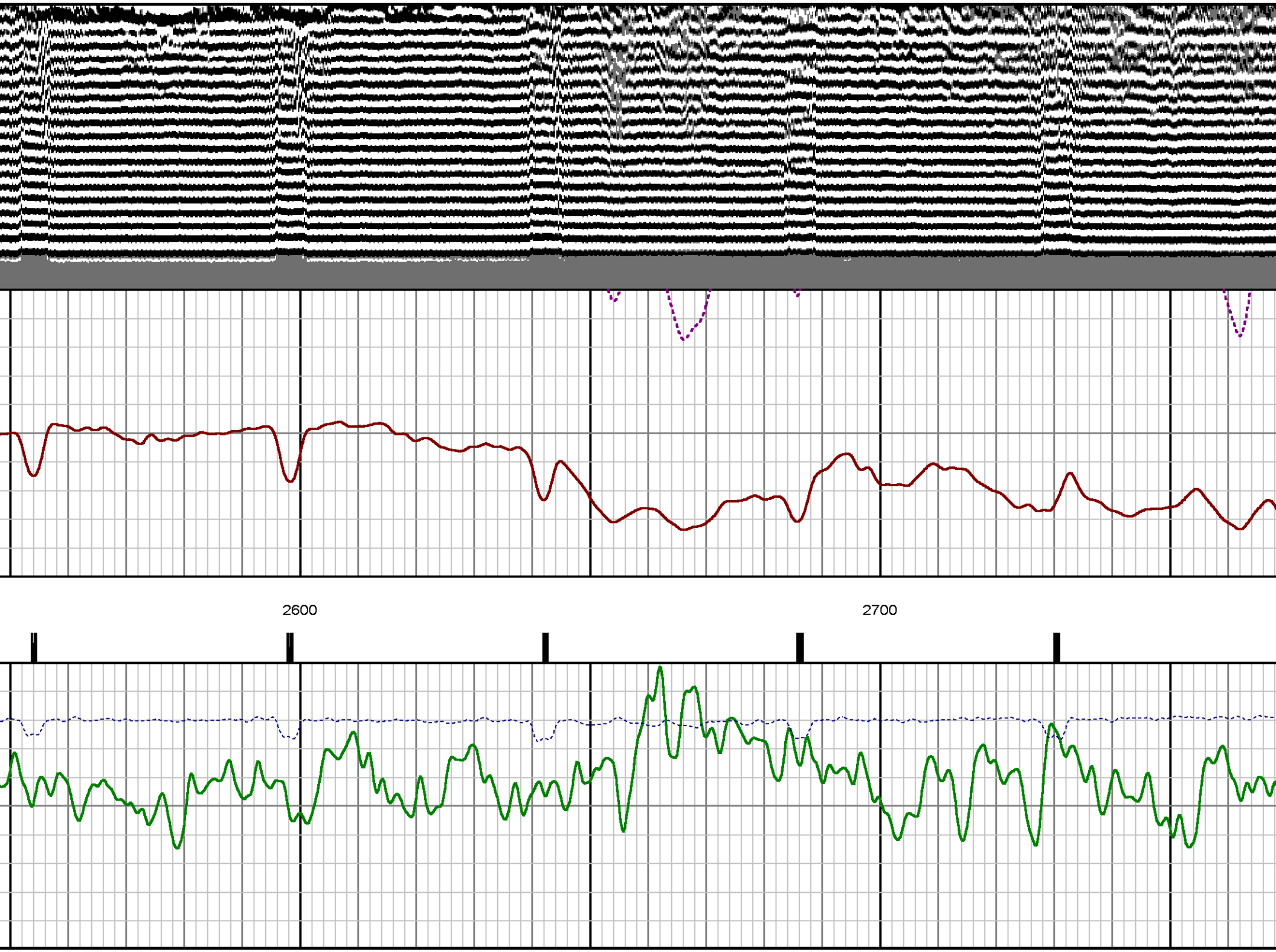
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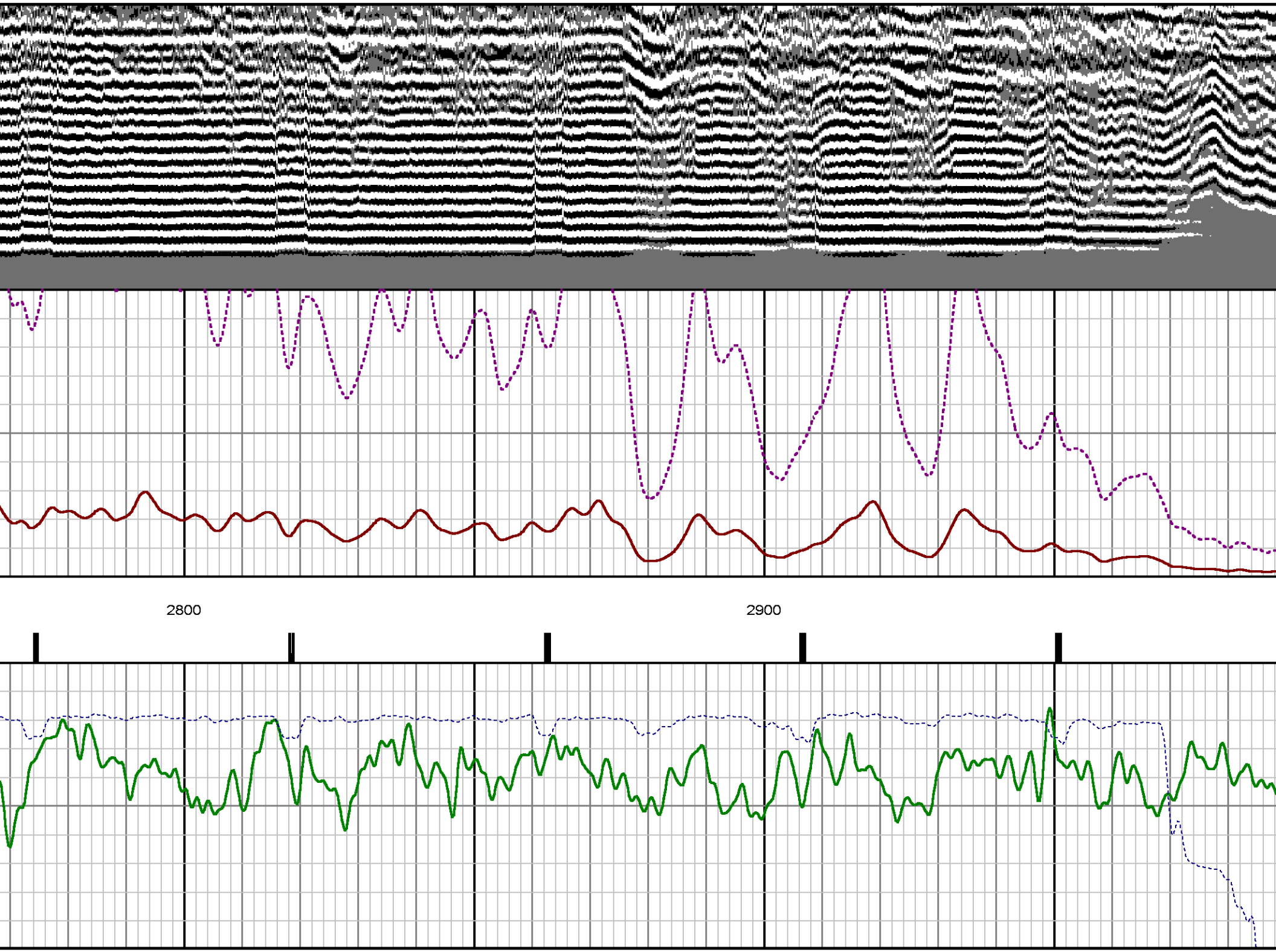
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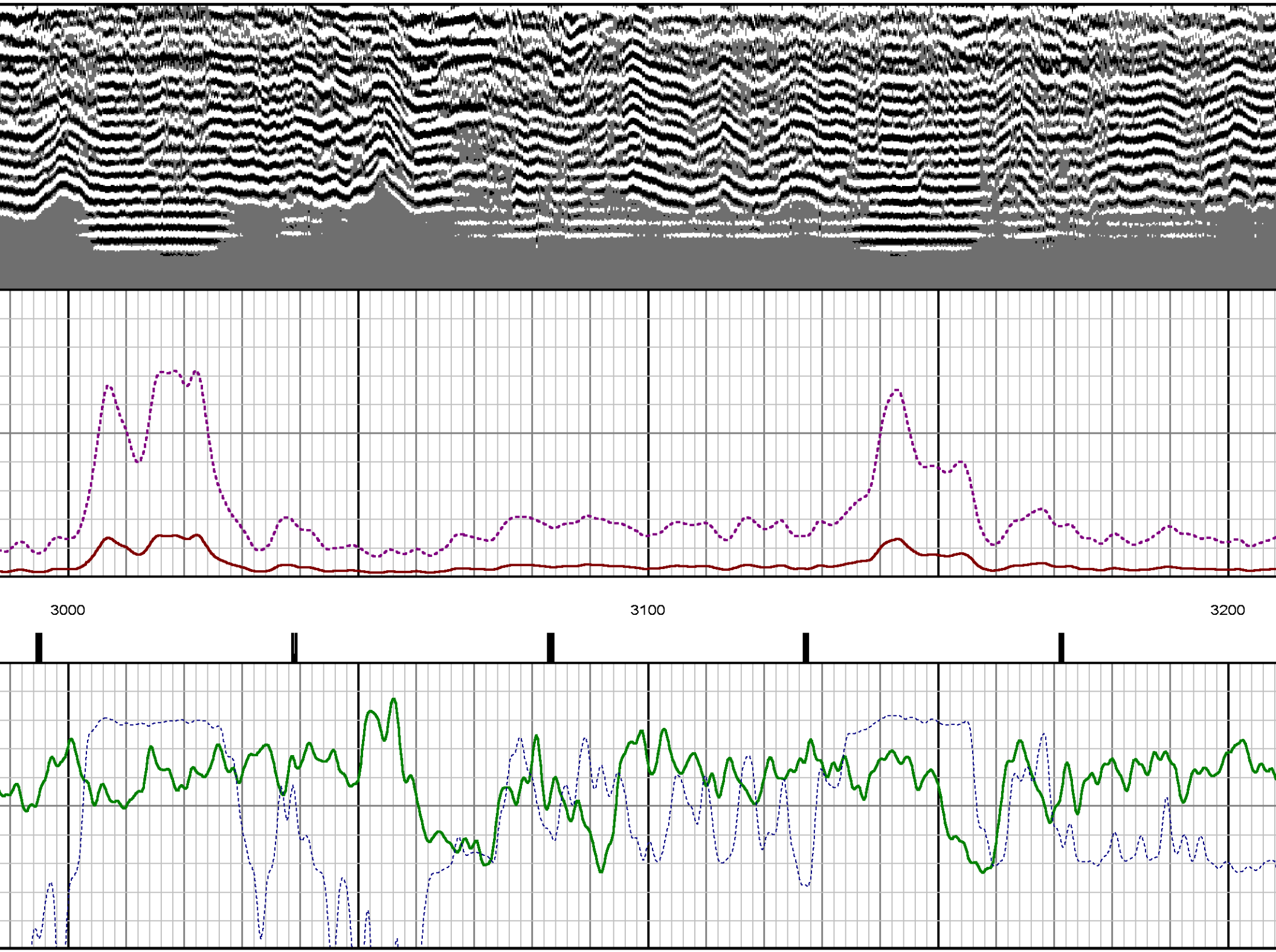
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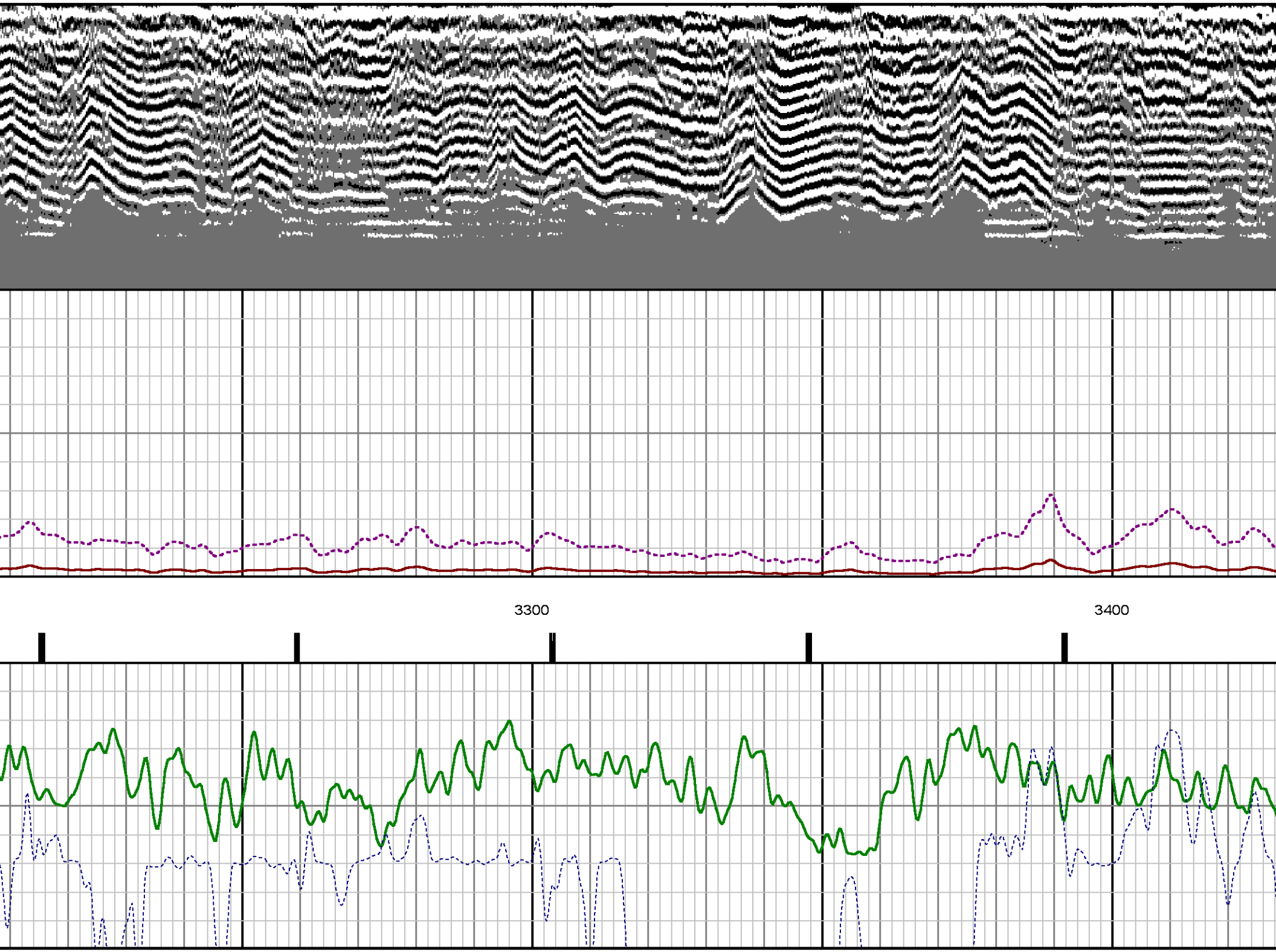
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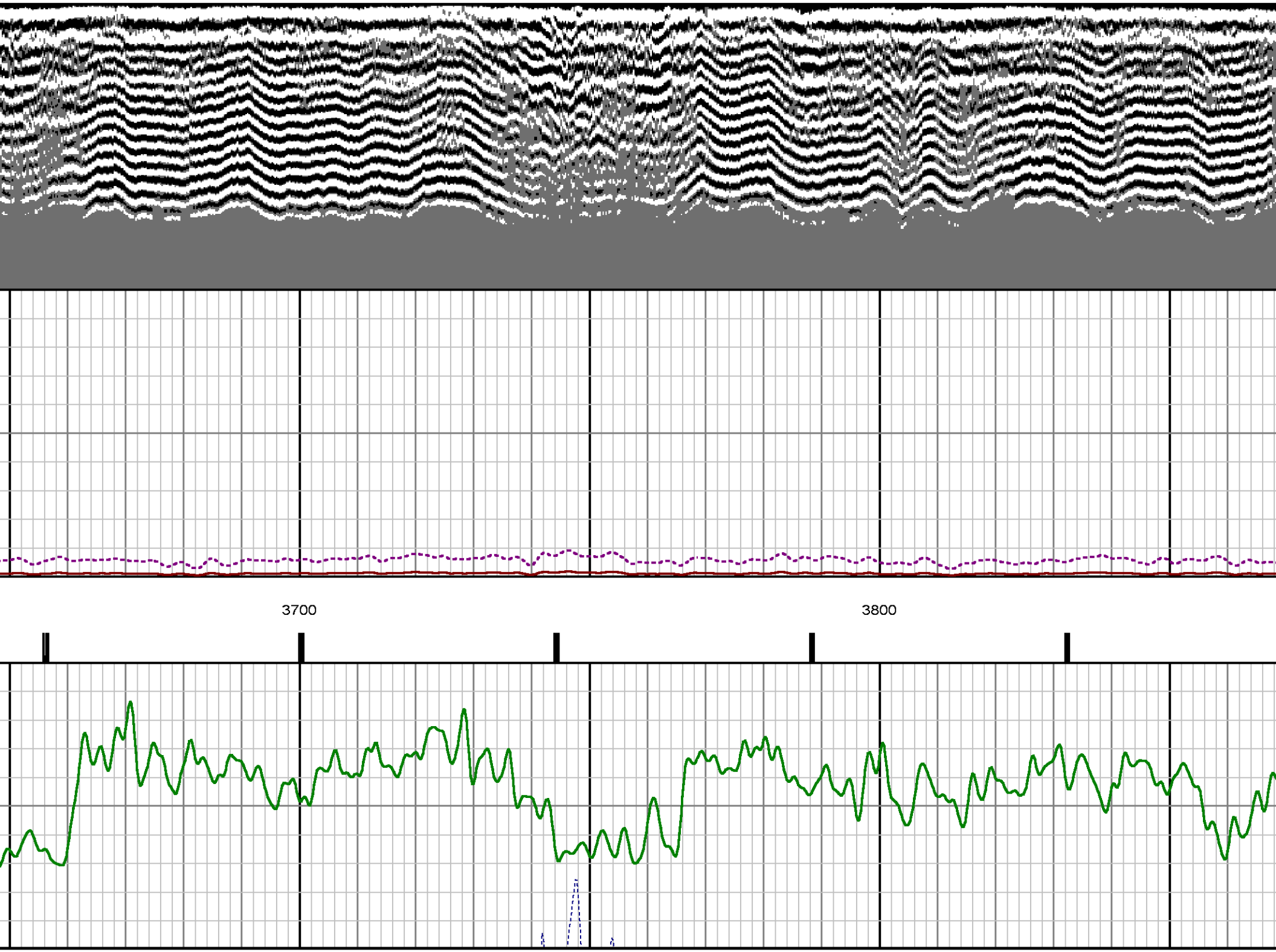
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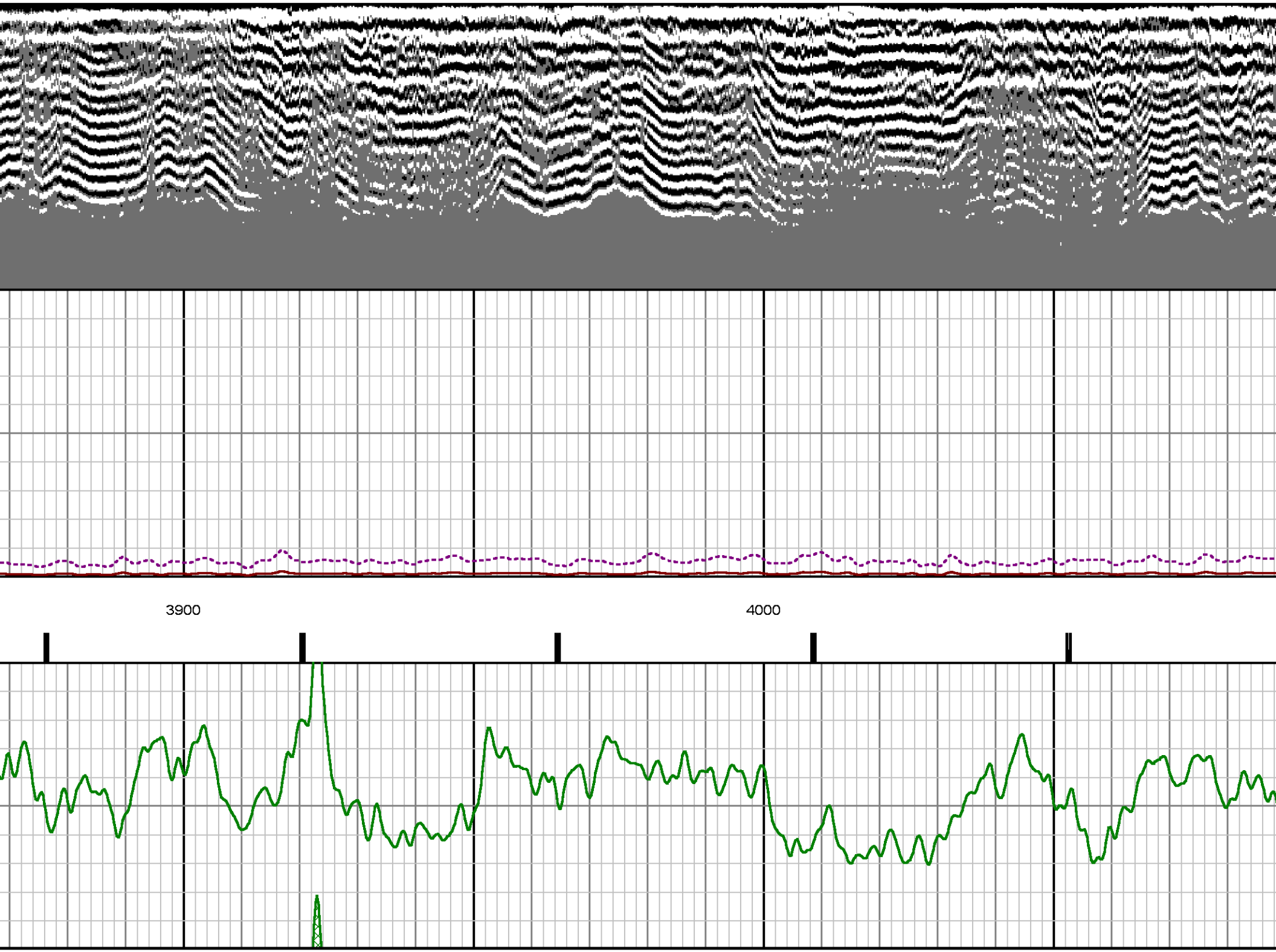
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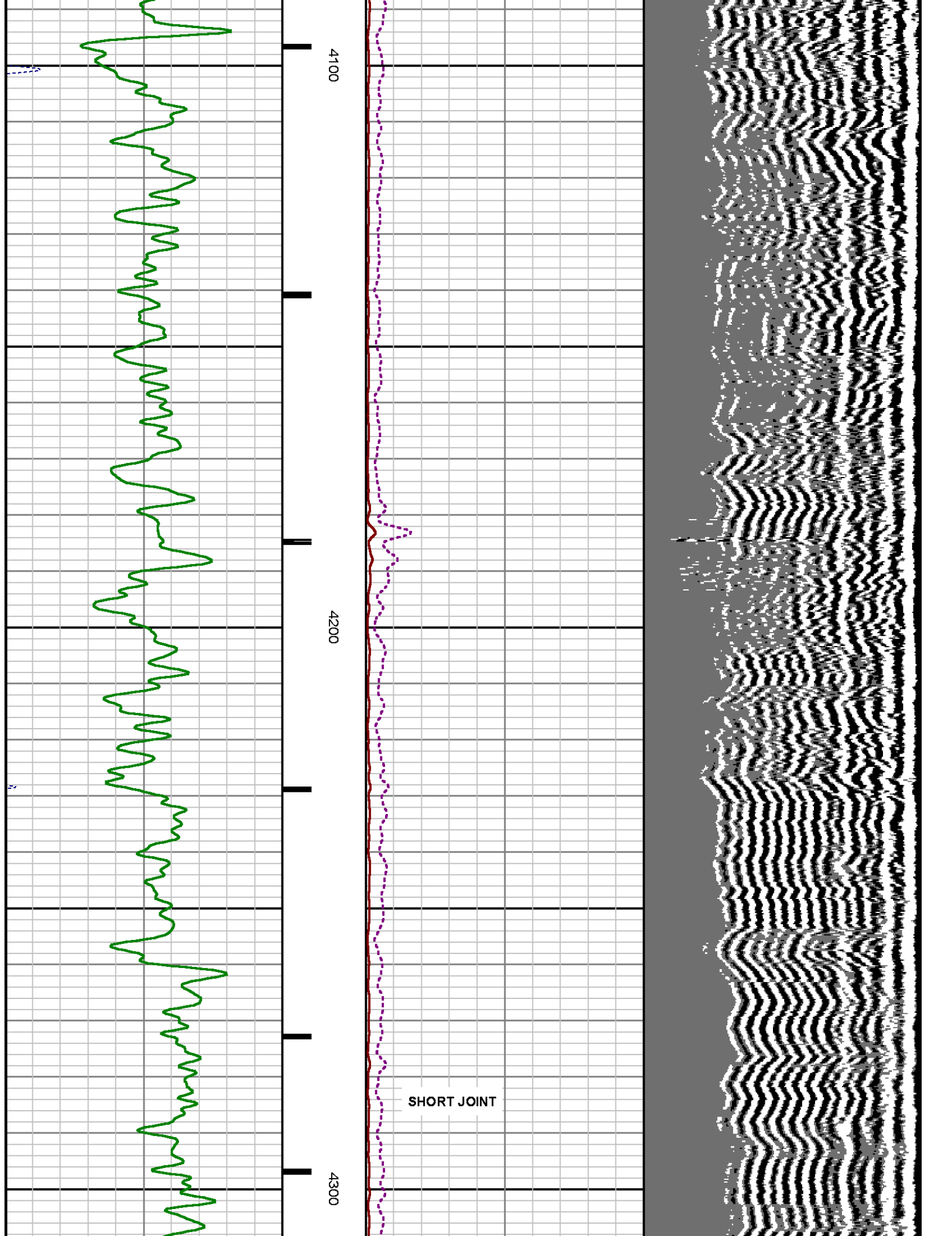
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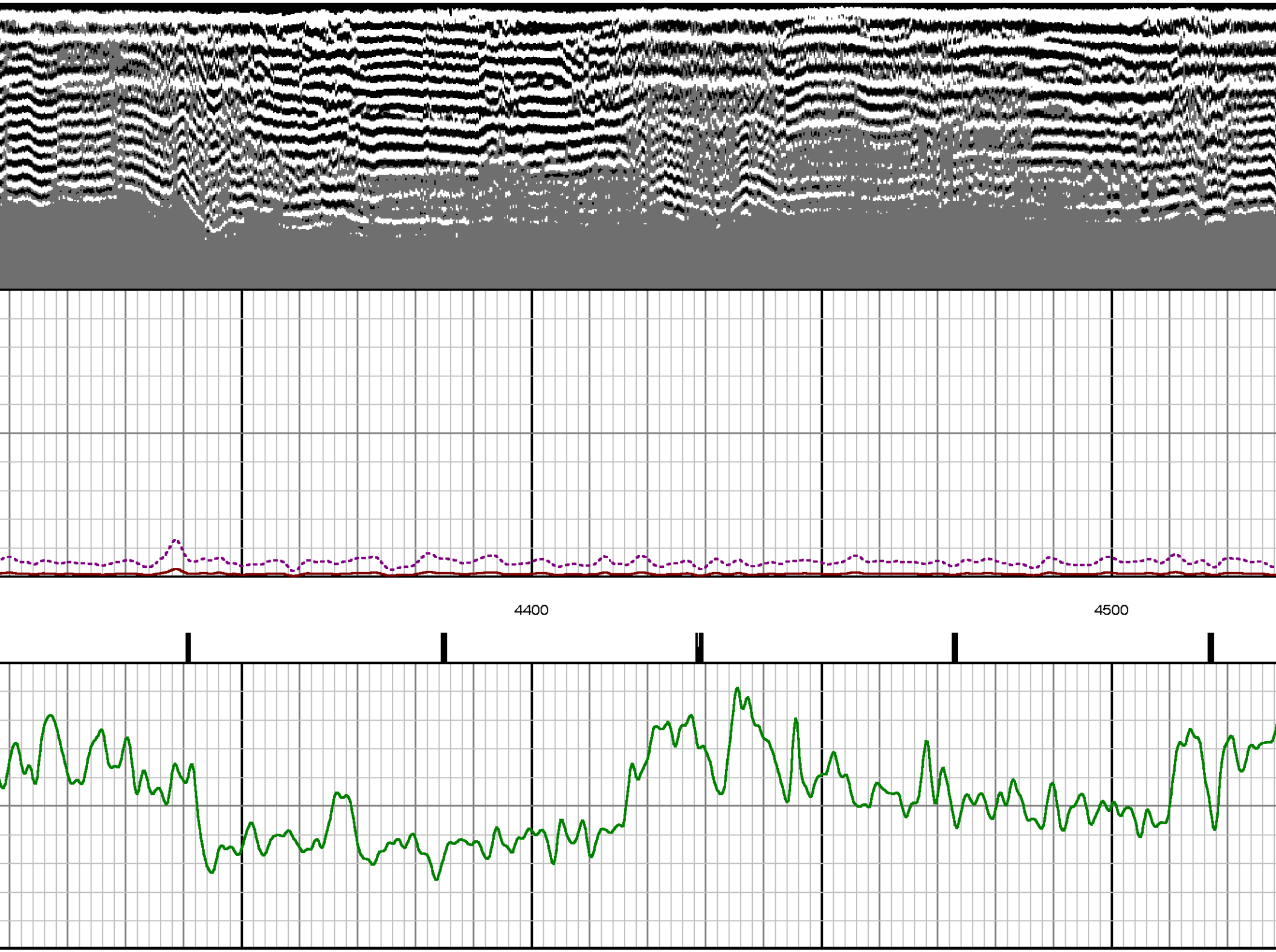
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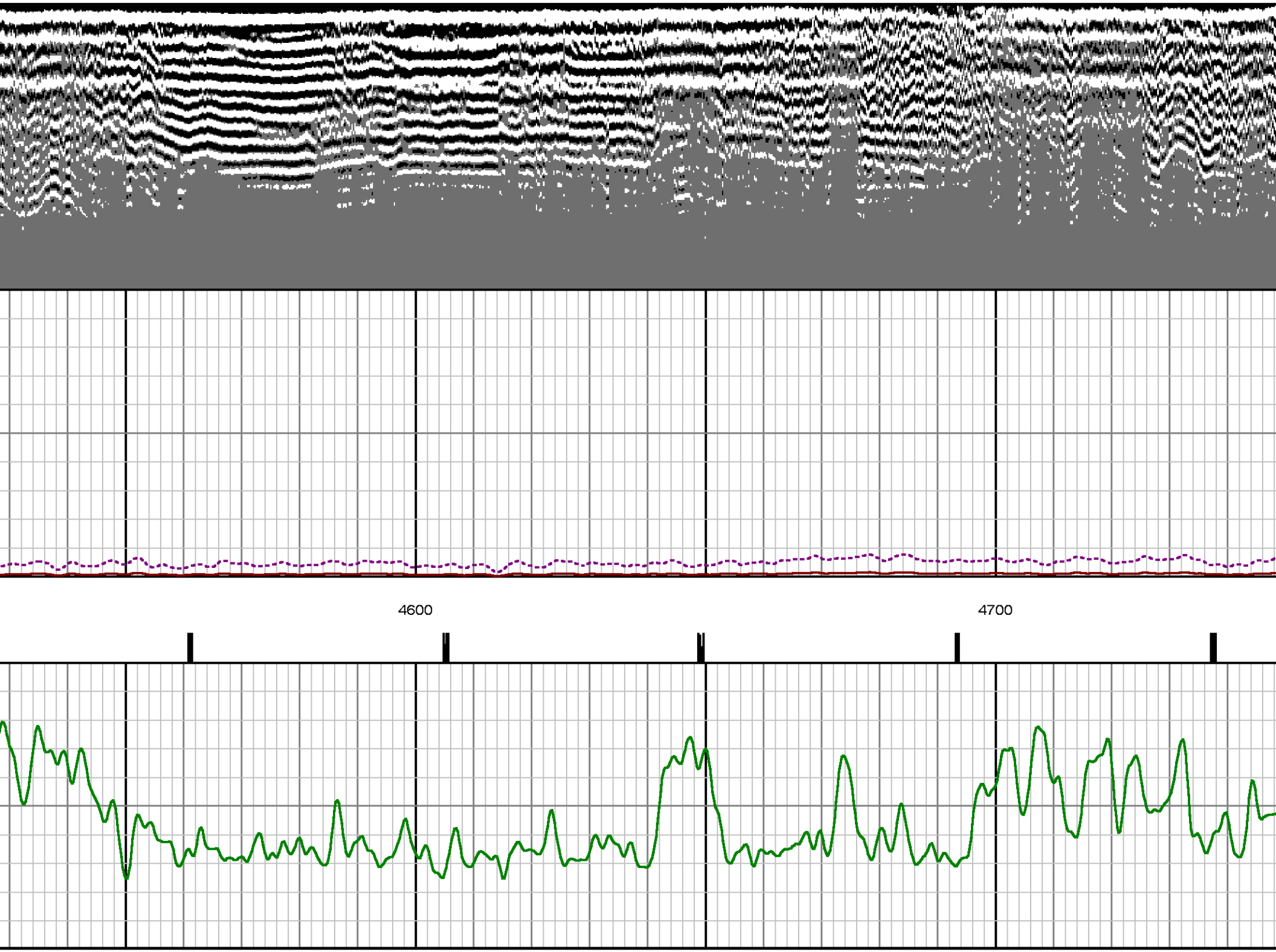
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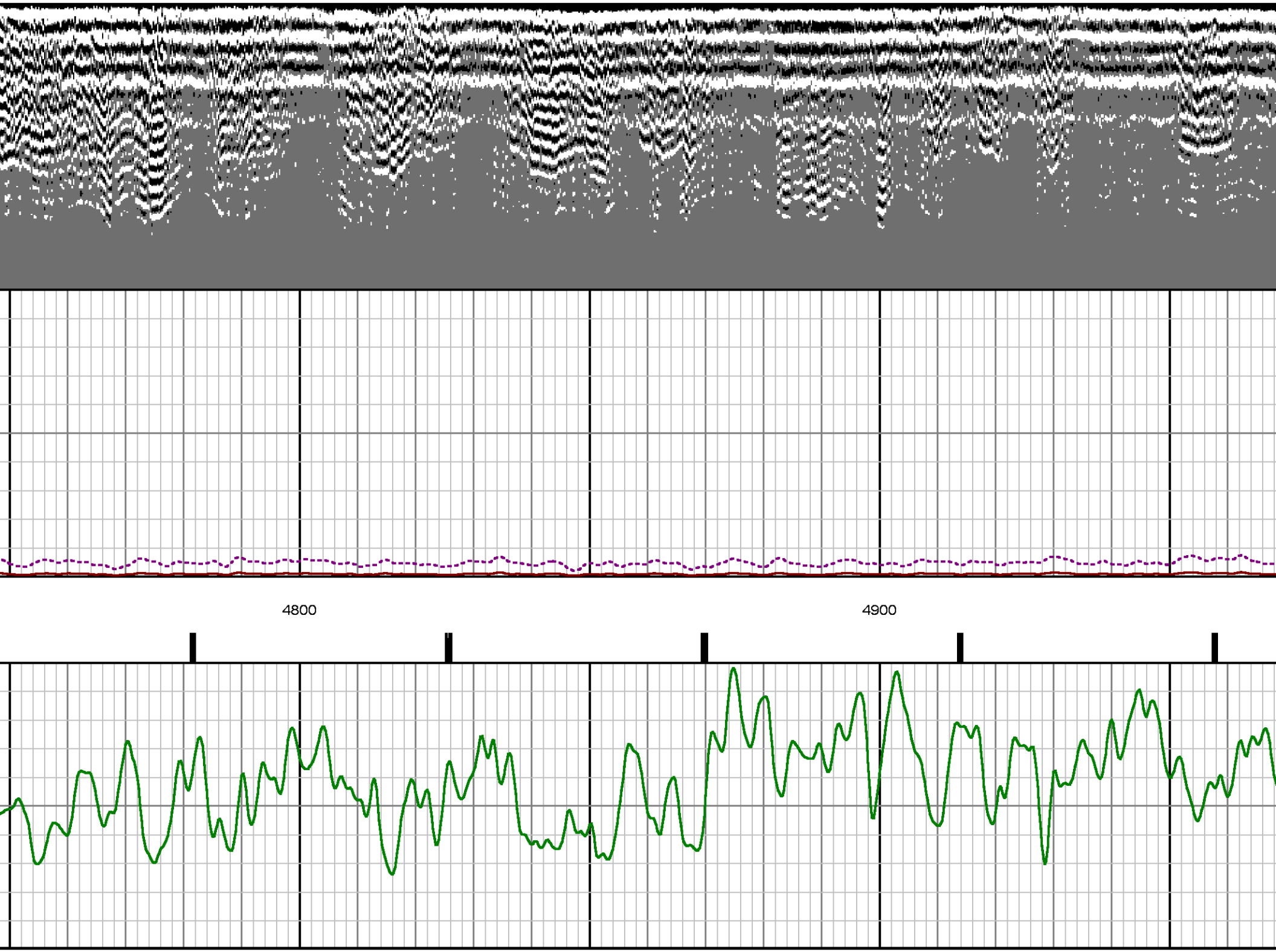
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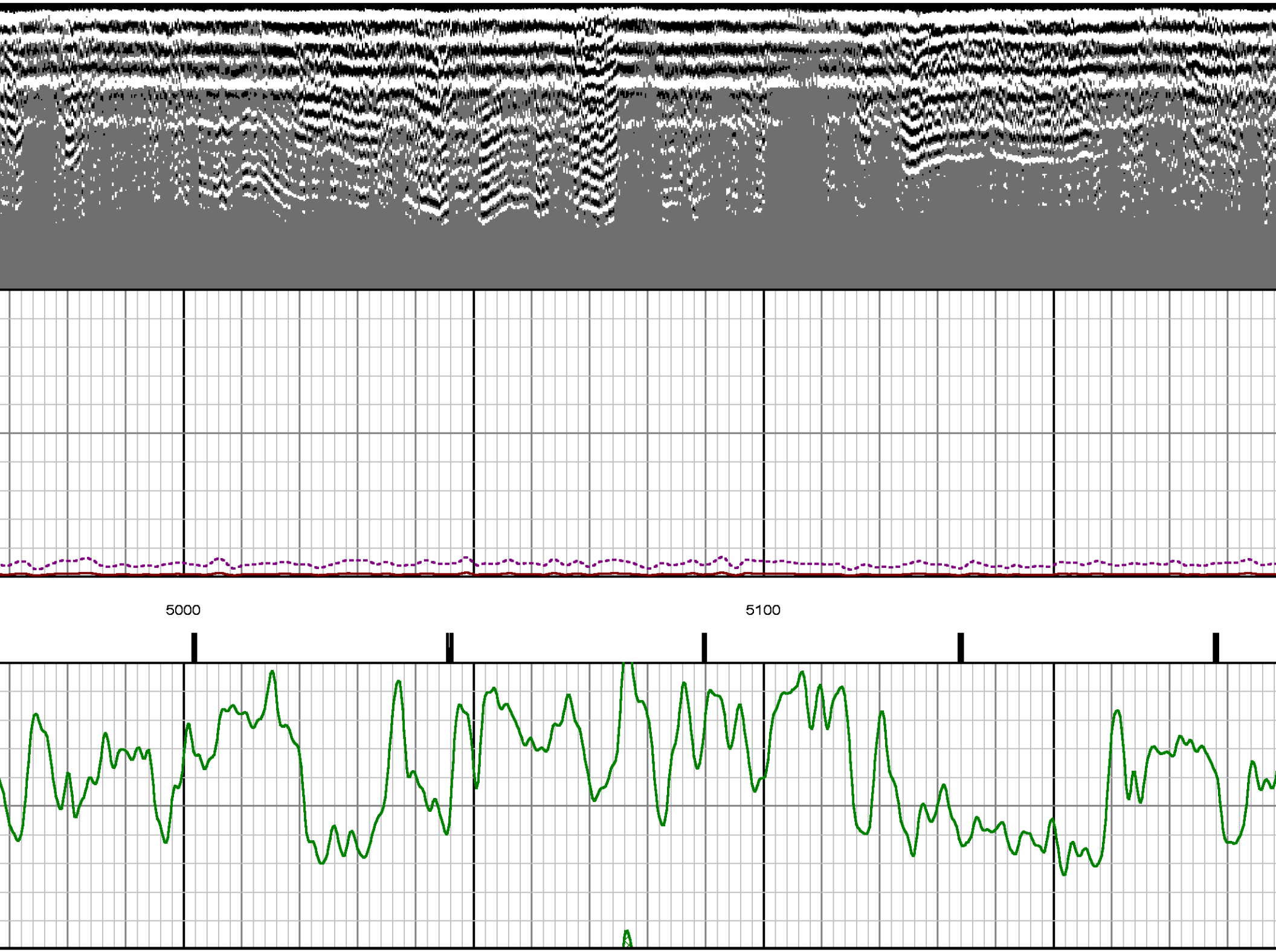
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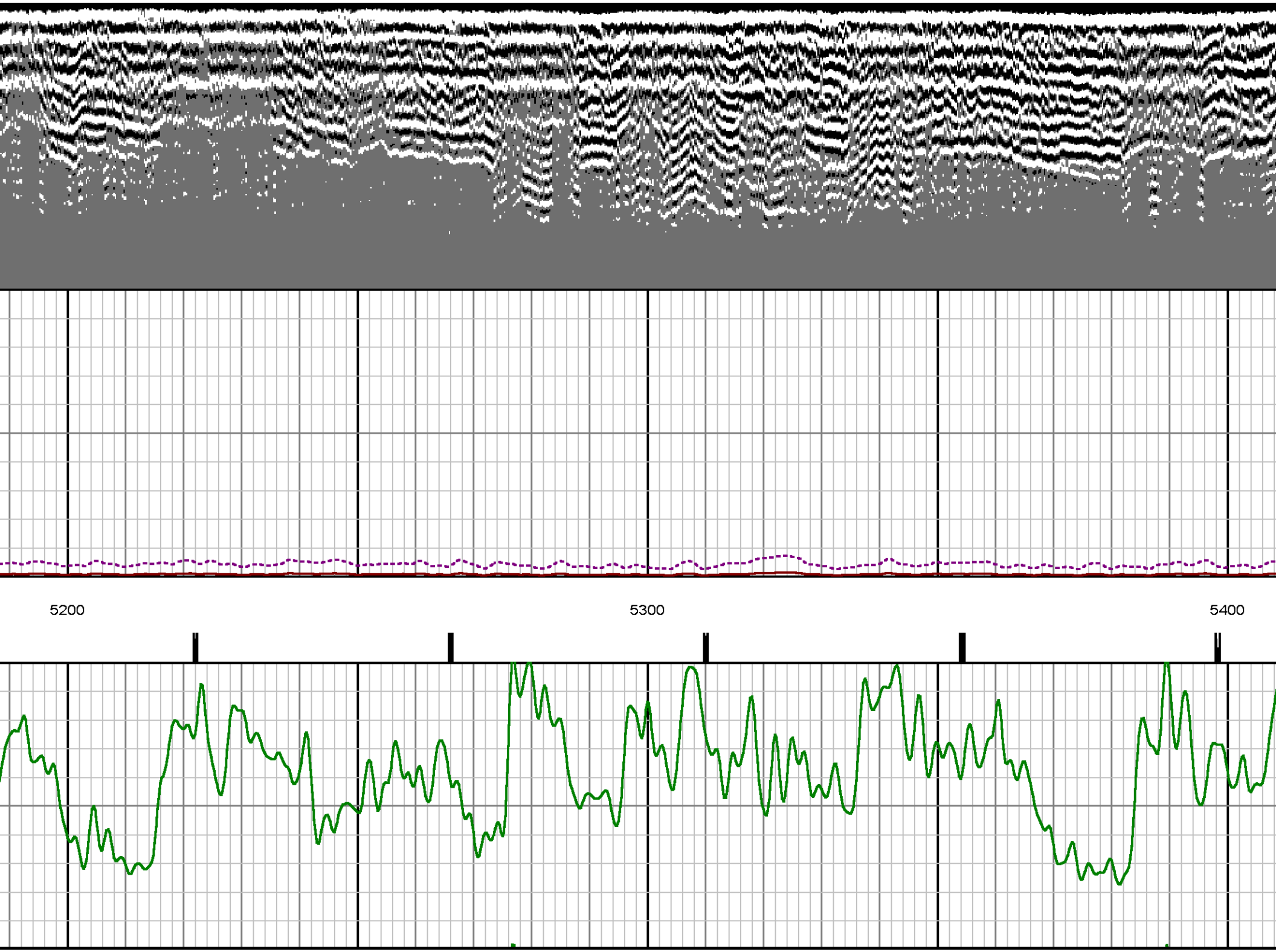
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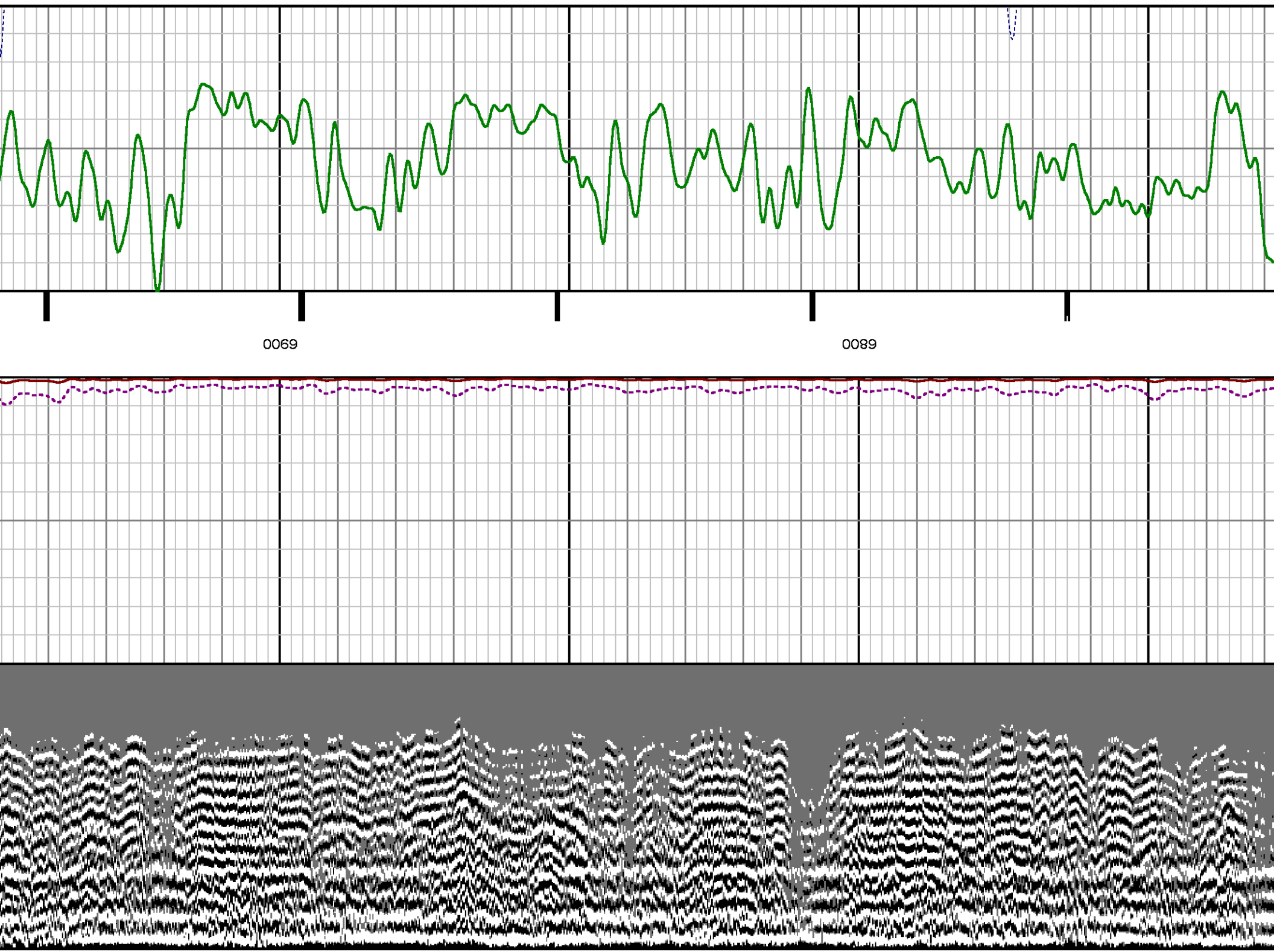
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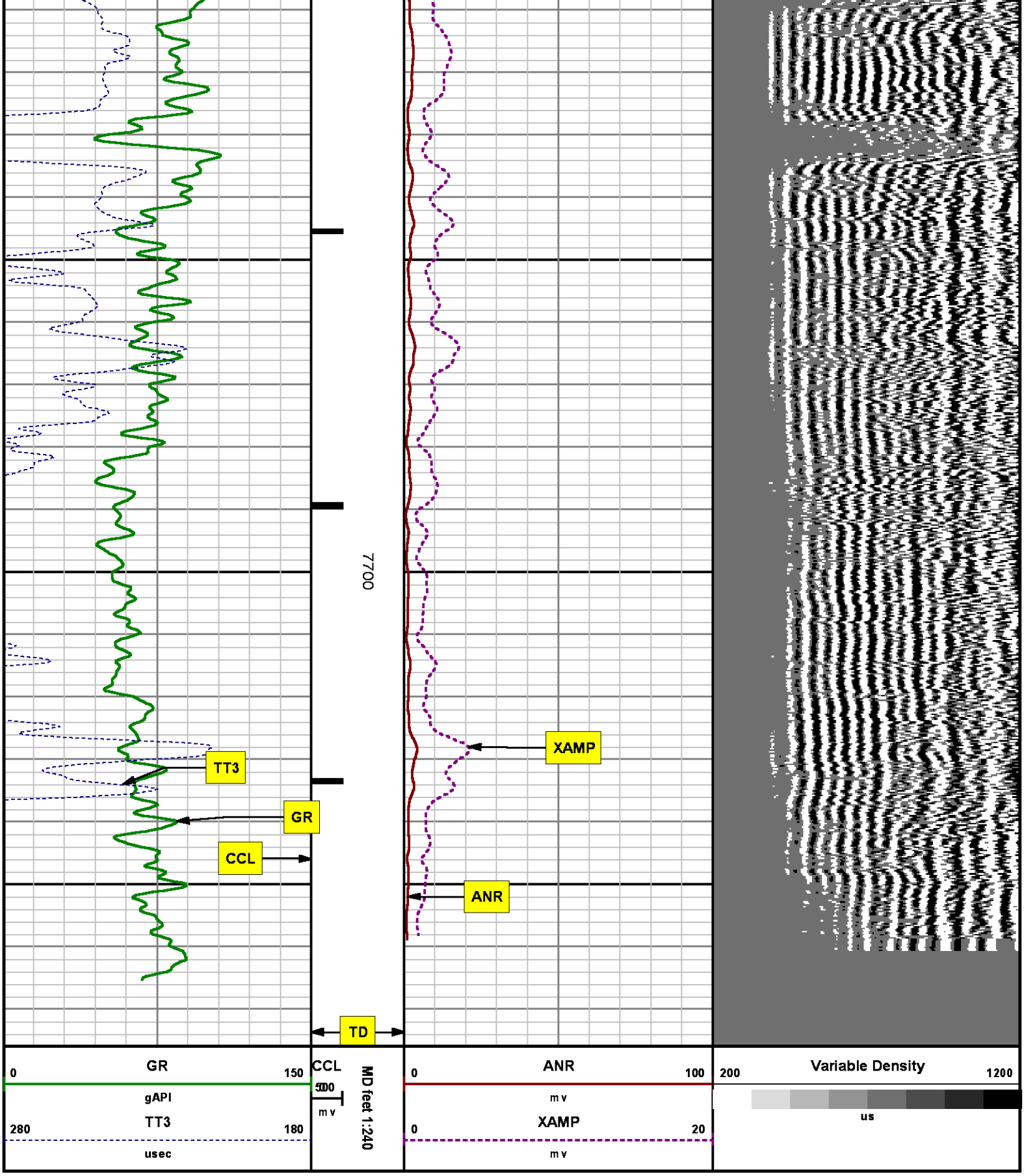

SECONDARY PRESENTATION

O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.156	7776.000
RAL	Amp Gate Start Near	195.000	usec	35.156	7776.000
RAL	Amp Gate Start Radial	195.000	usec	35.156	7776.000
RAL	Amp Gate Width Far	25.000	usec	35.156	7776.000
RAL	Amp Gate Width Near	25.000	usec	35.156	7776.000
RAL	Amp Gate Width Radial	25.000	usec	35.156	7776.000
RAL	casing od	4.500	inches	35.156	7776.000
RAL	casing wt	11.600	lbm/ft	35.156	7776.000
RAL	FB Start Far	291.900	usec	35.156	7776.000
RAL	FB Start Near	180.000	usec	35.156	7776.000
RAL	FB Start Radial	18.000	usec	35.156	7776.000
RAL	FB Thresh Far	10.000	mv	35.156	7776.000
RAL	FB Thresh Near	4.000	mv	35.156	7776.000
RAL	FB Thresh Radial	4.000	mv	35.156	7776.000
RAL	Fluid Travel Time	200.000	usec/ft	35.156	7776.000

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	-16.750	ACAL ANR AR1 AR2 AR3 AR4 AR5 AR6 AR7 AR8 CHV FPR2 FPR3 FPR5 TT3 TTR1 TTR2 TTR3 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
1426XA	-15.750	AFAR SIG TT5
2459XA	-11.340	CCL
2459XA	-9.490	GR
2459XA	-4.090	NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : WPX ENERGY PA 524-2

File Name : d:\welldata\wpx\pa 524-2\524ral\main.xtf

Mode : PlotMgr 5.4.504

Interval : -3.00 - 7776.00 feet UP

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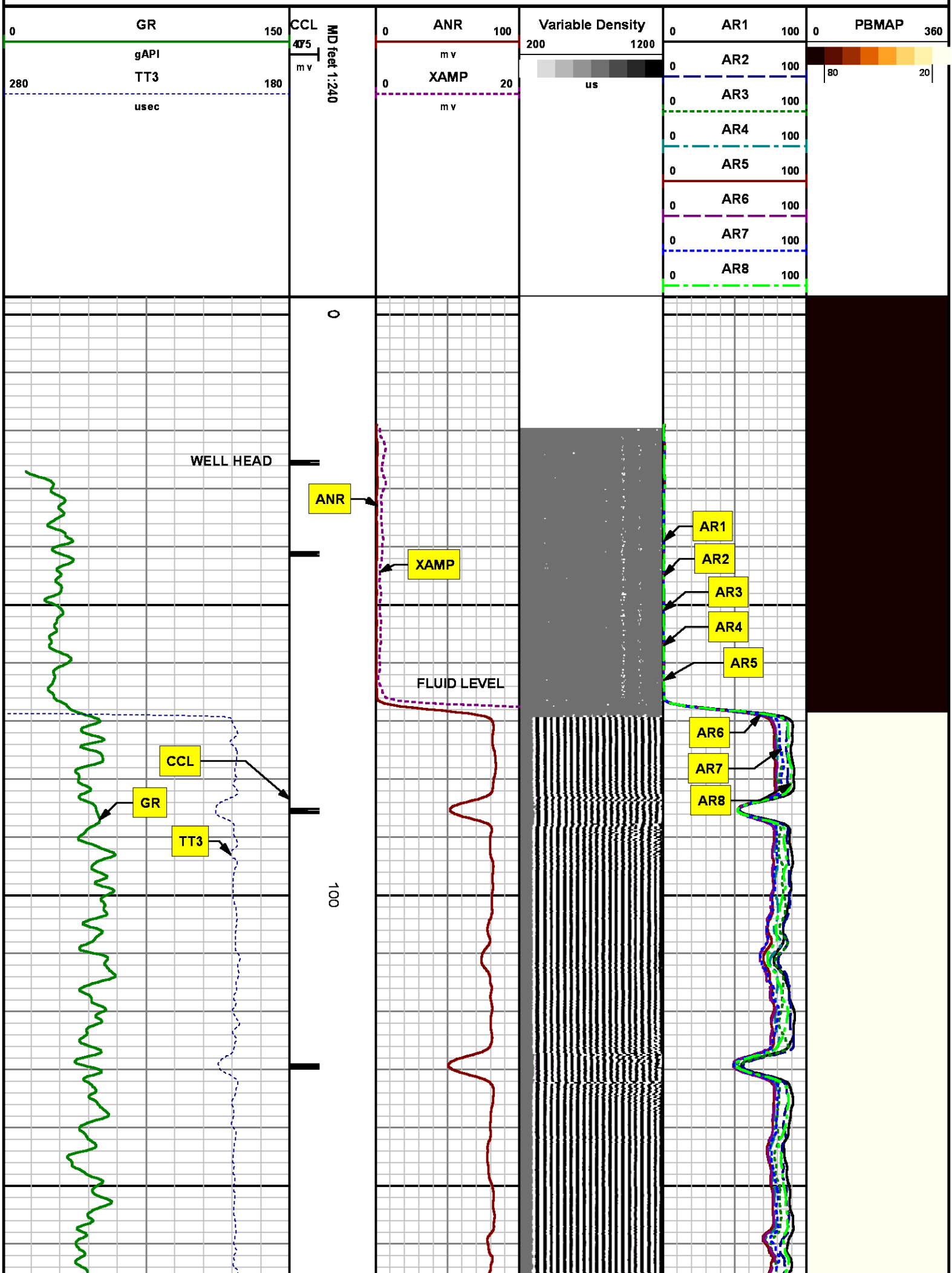
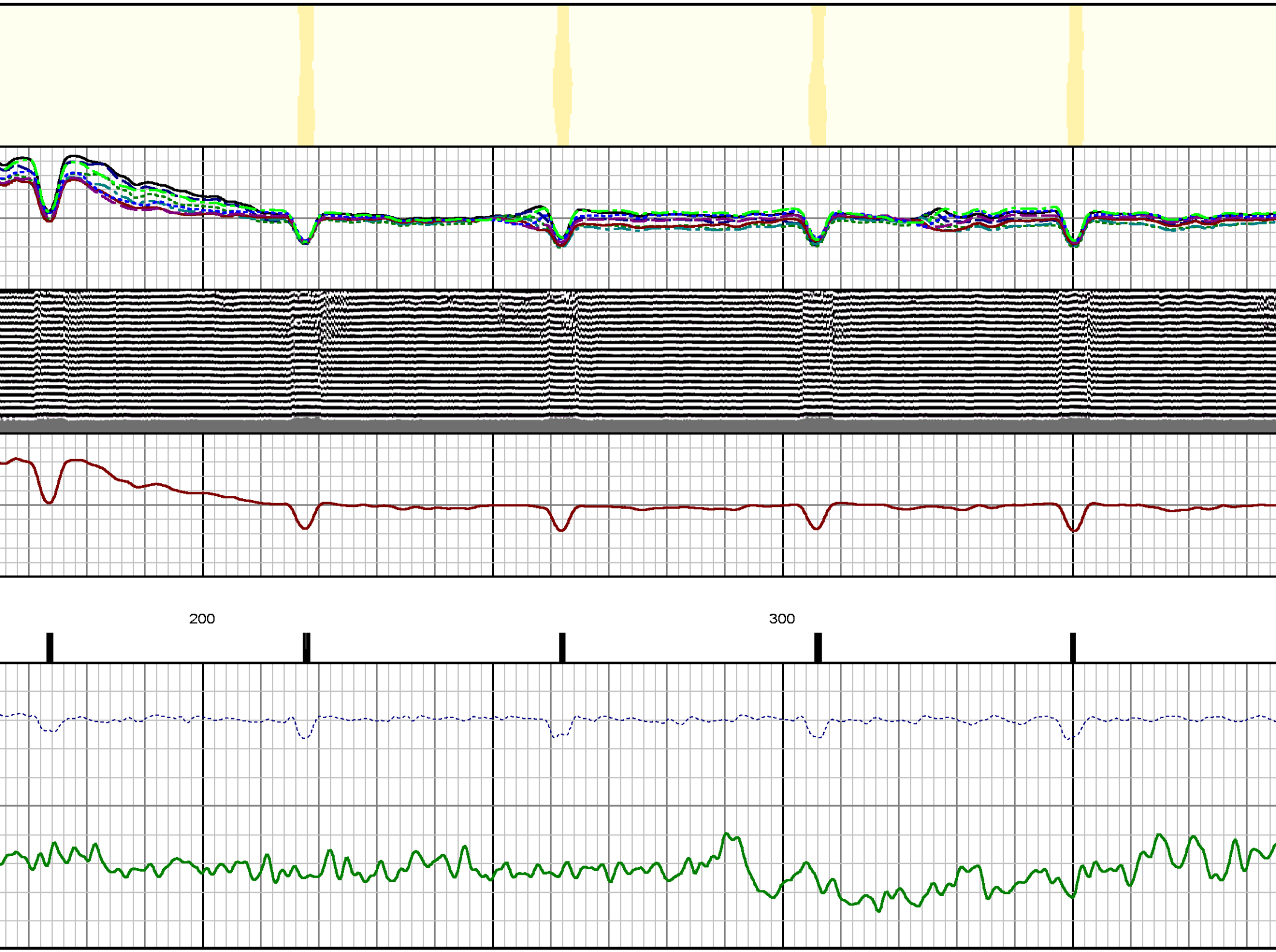
Created : 4/30/2014 8:08:31 AM

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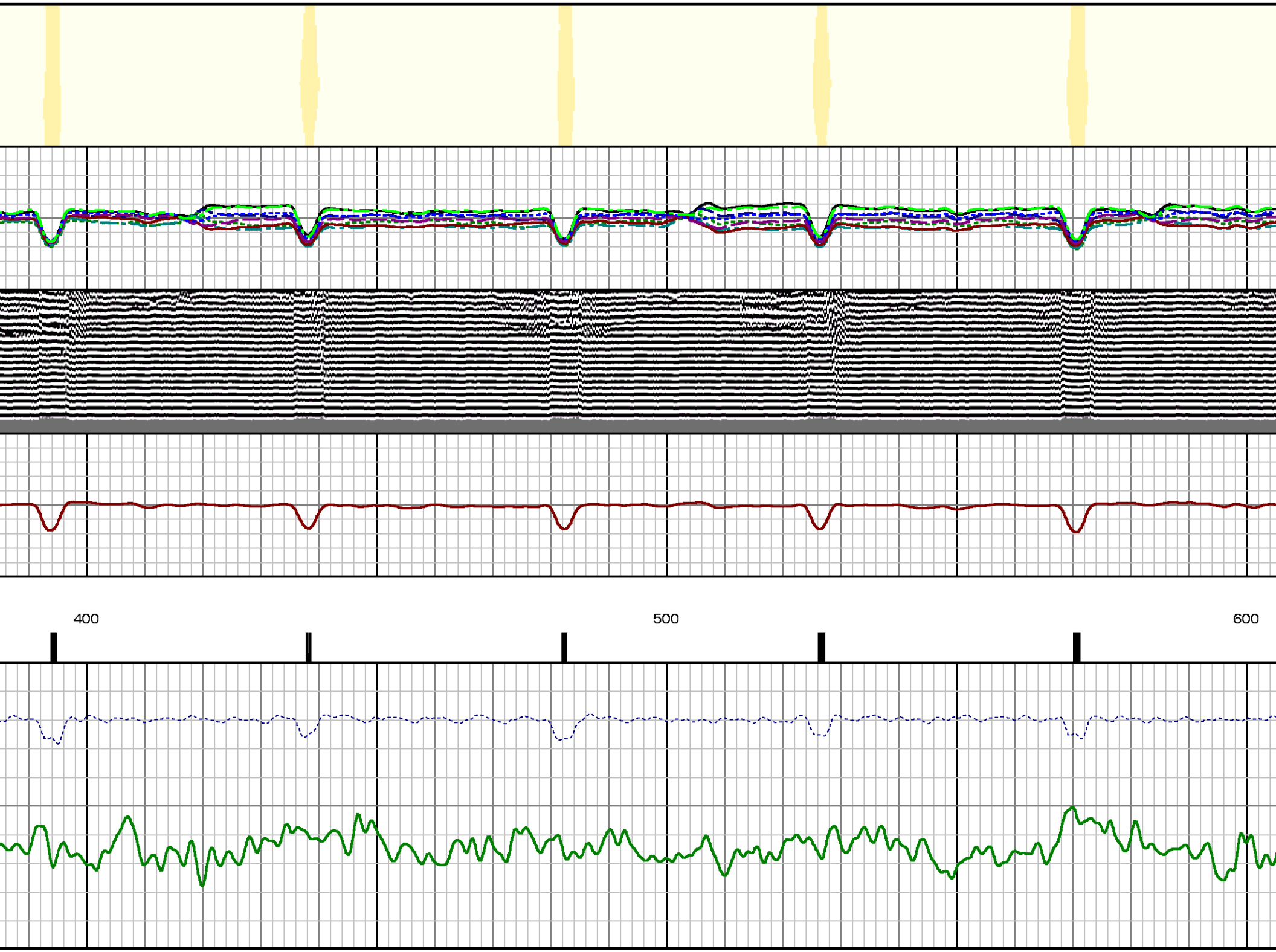
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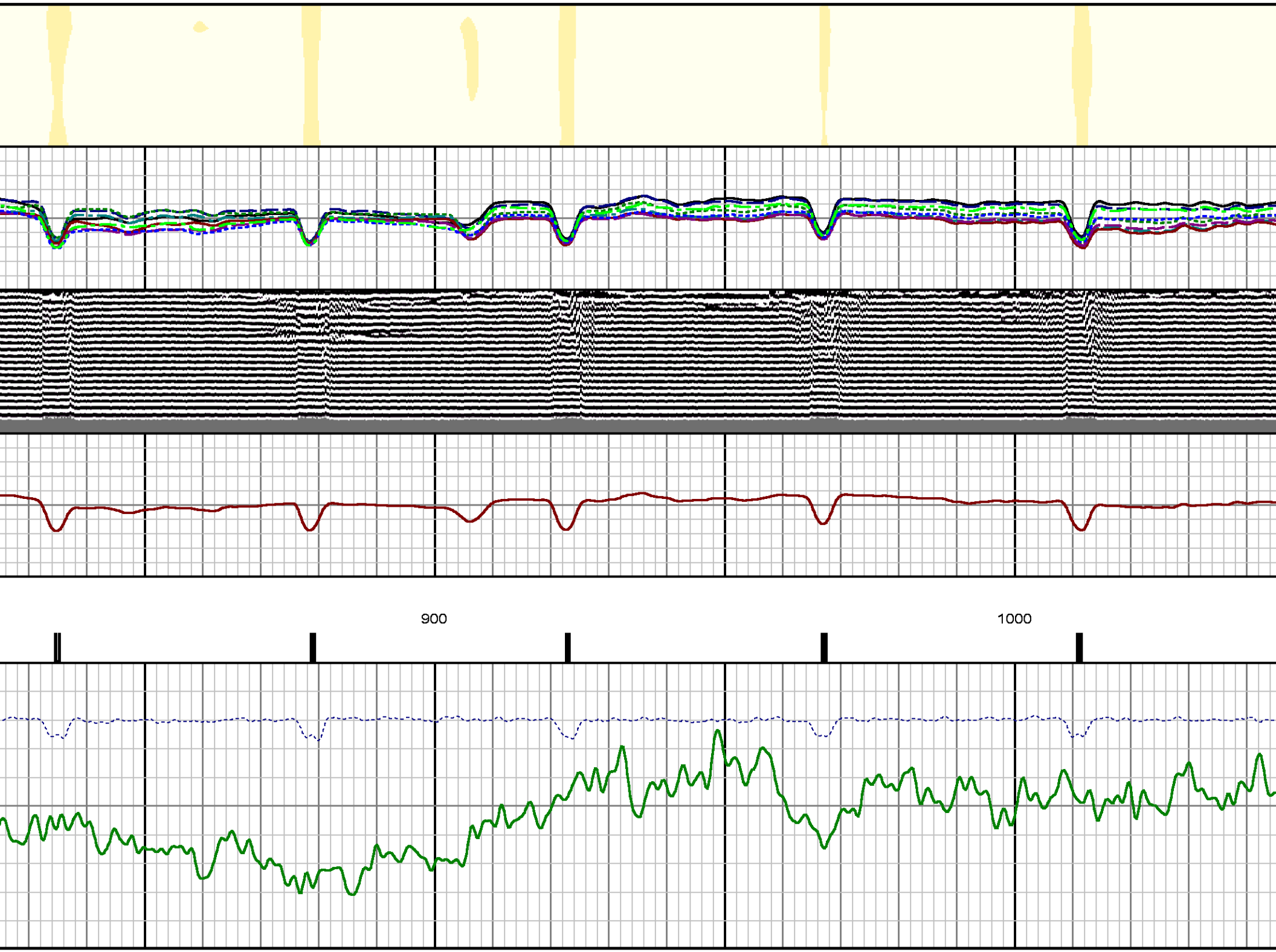
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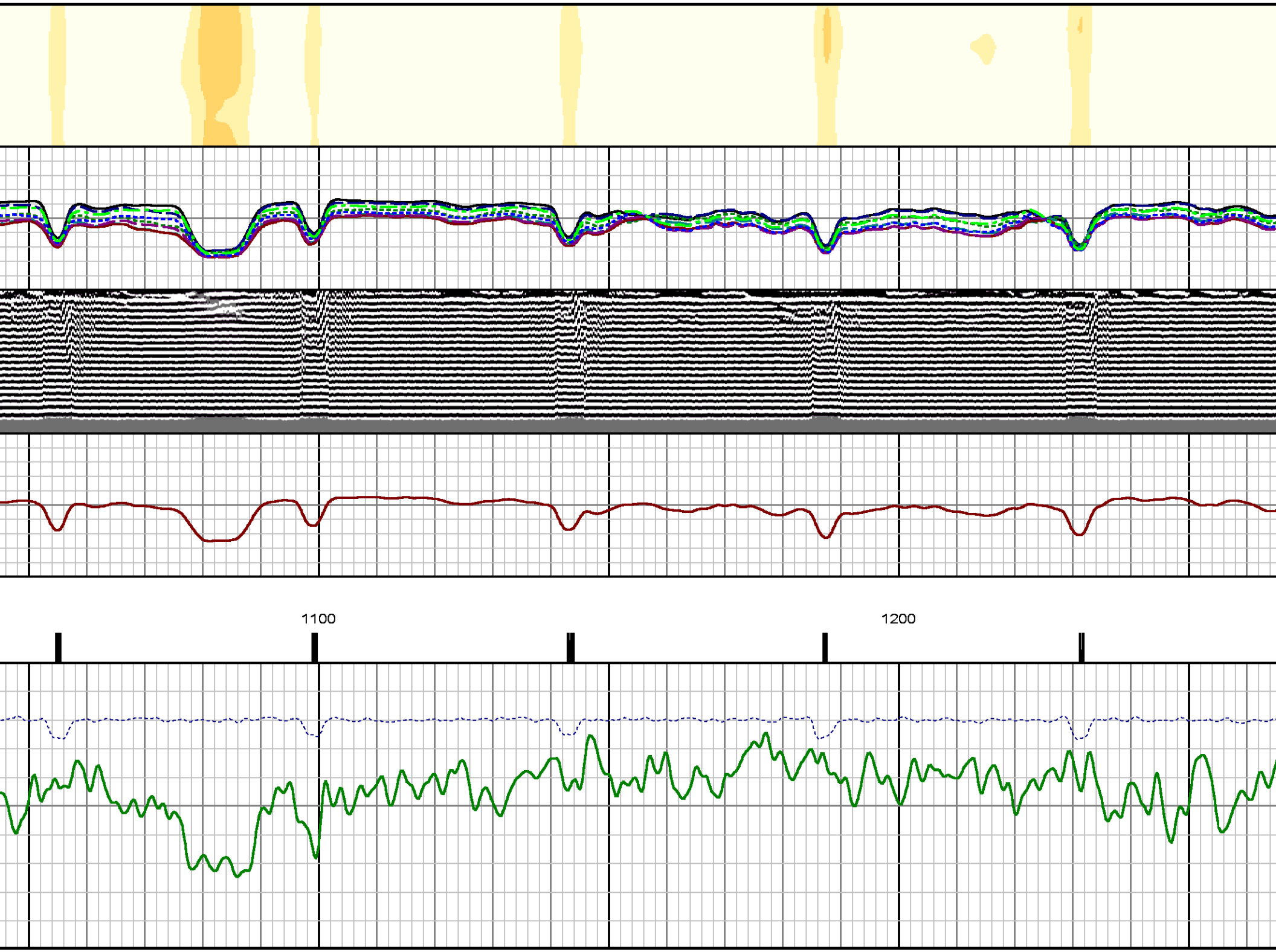
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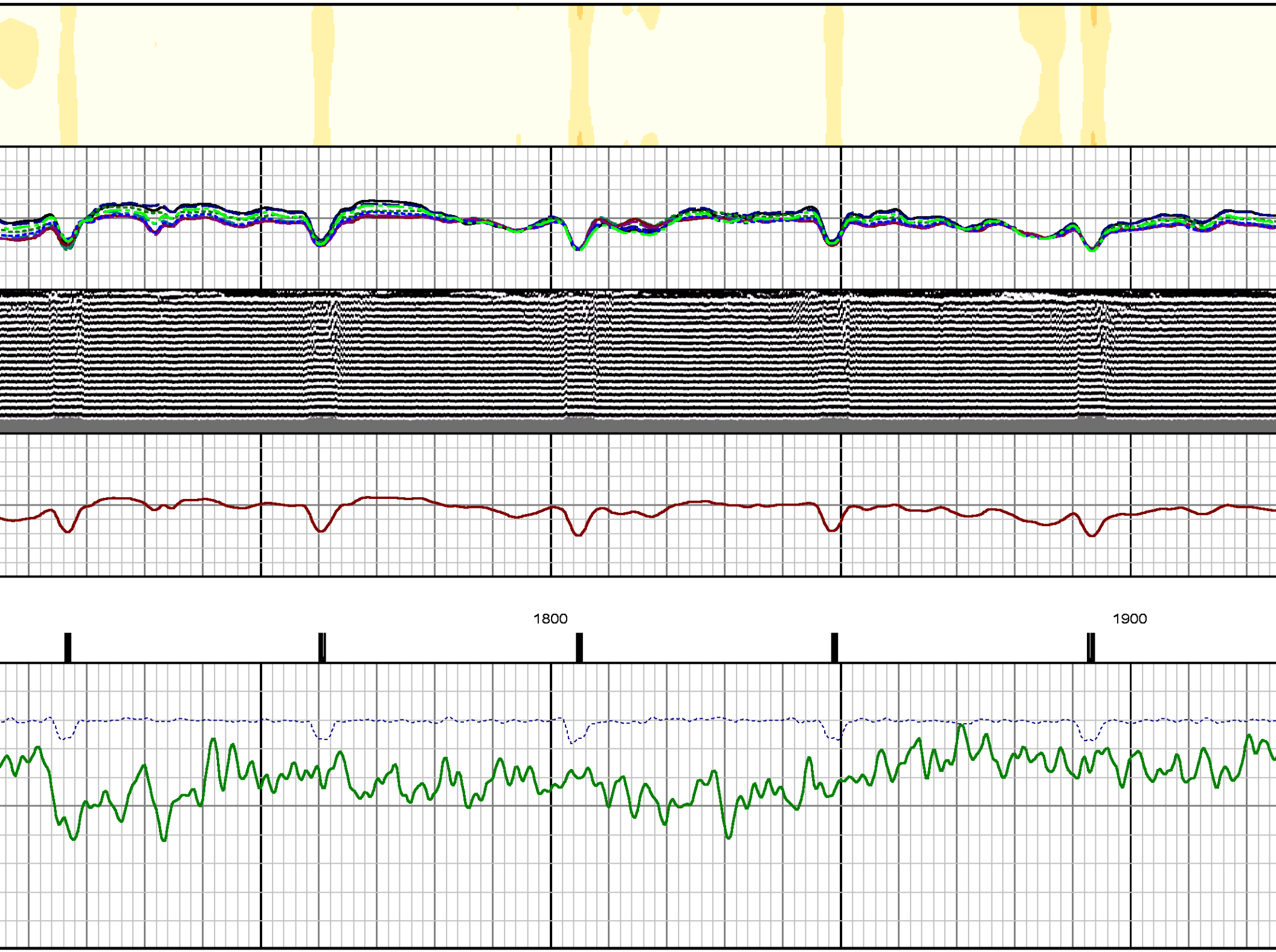
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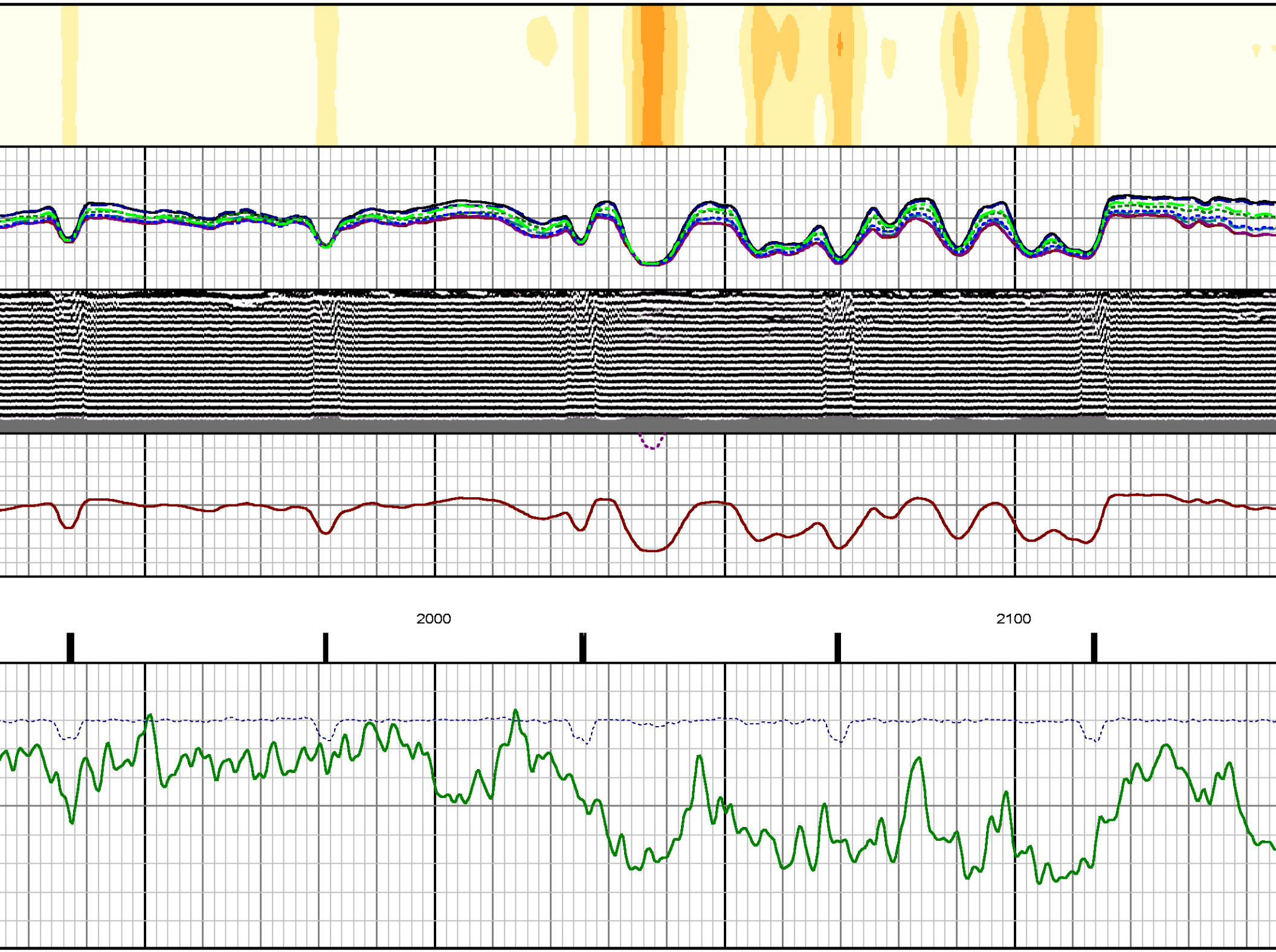
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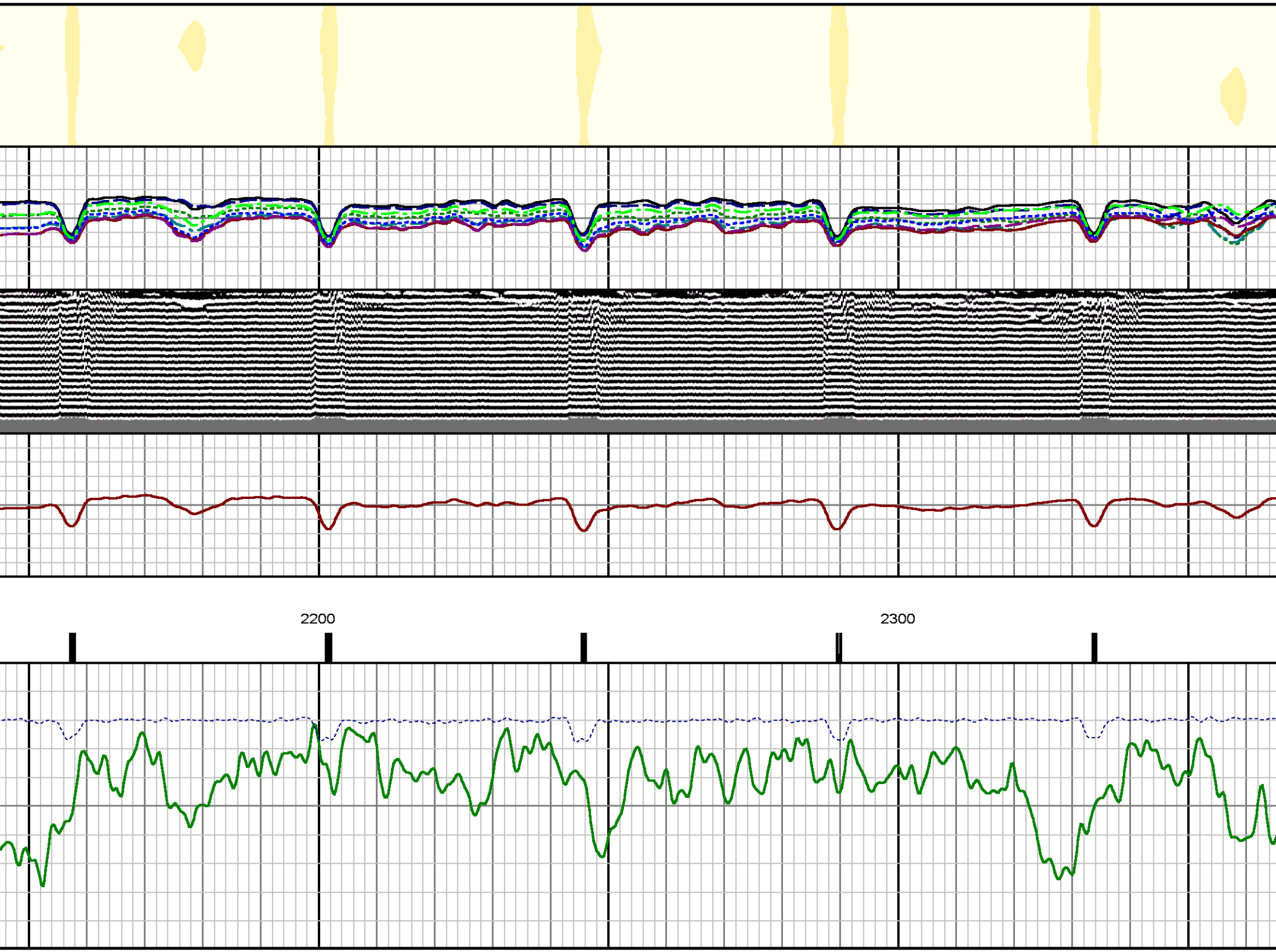
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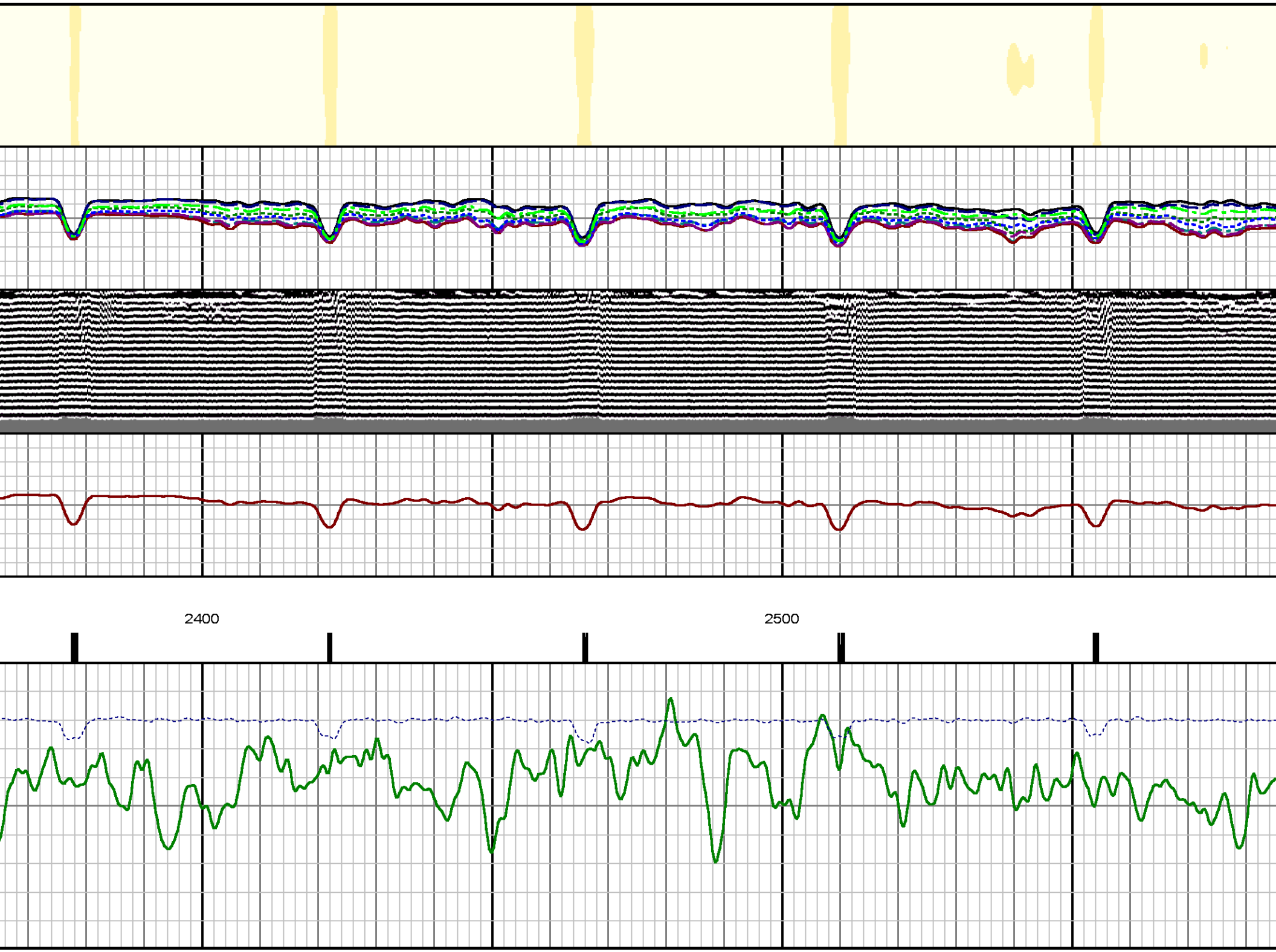
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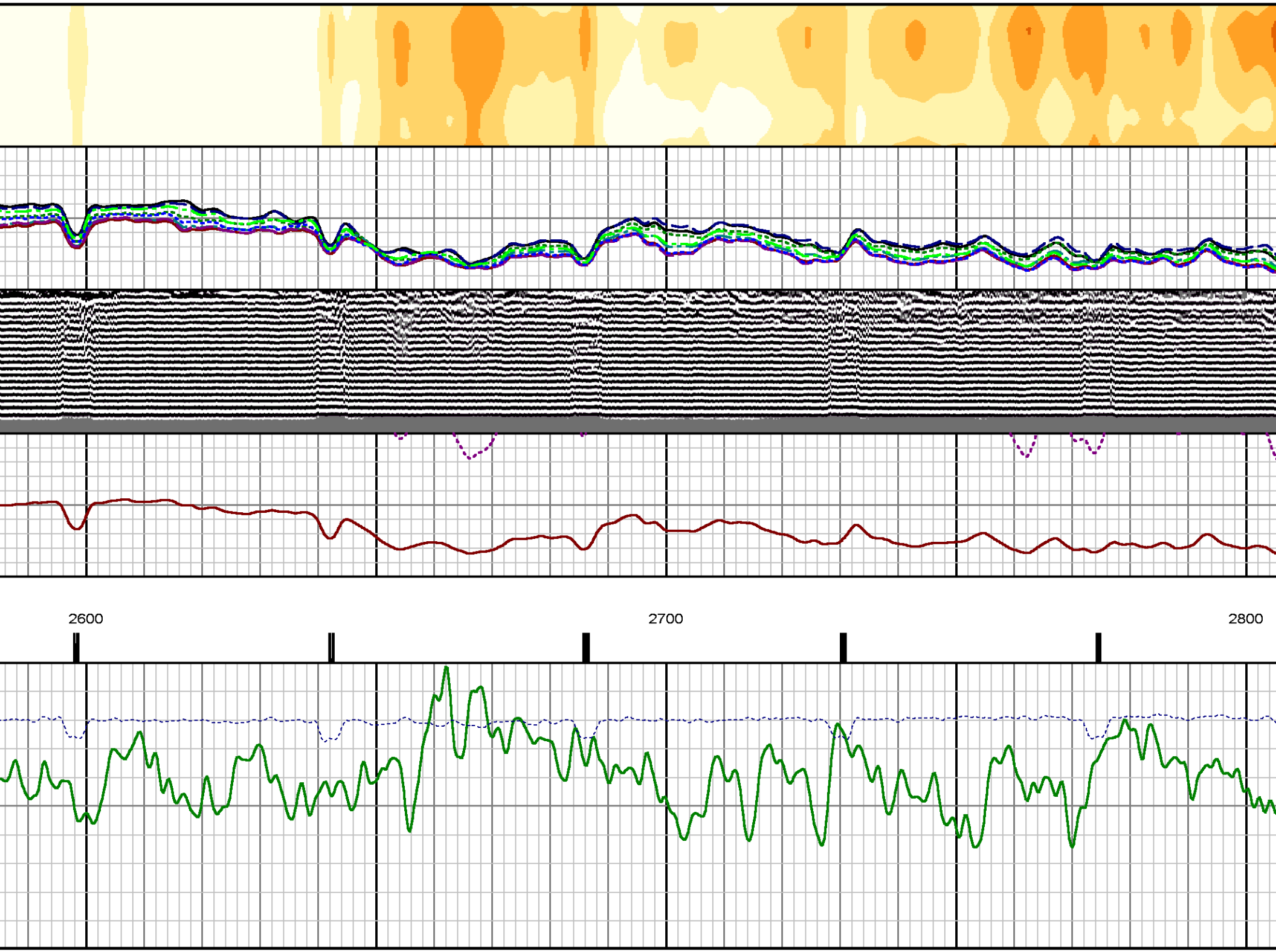
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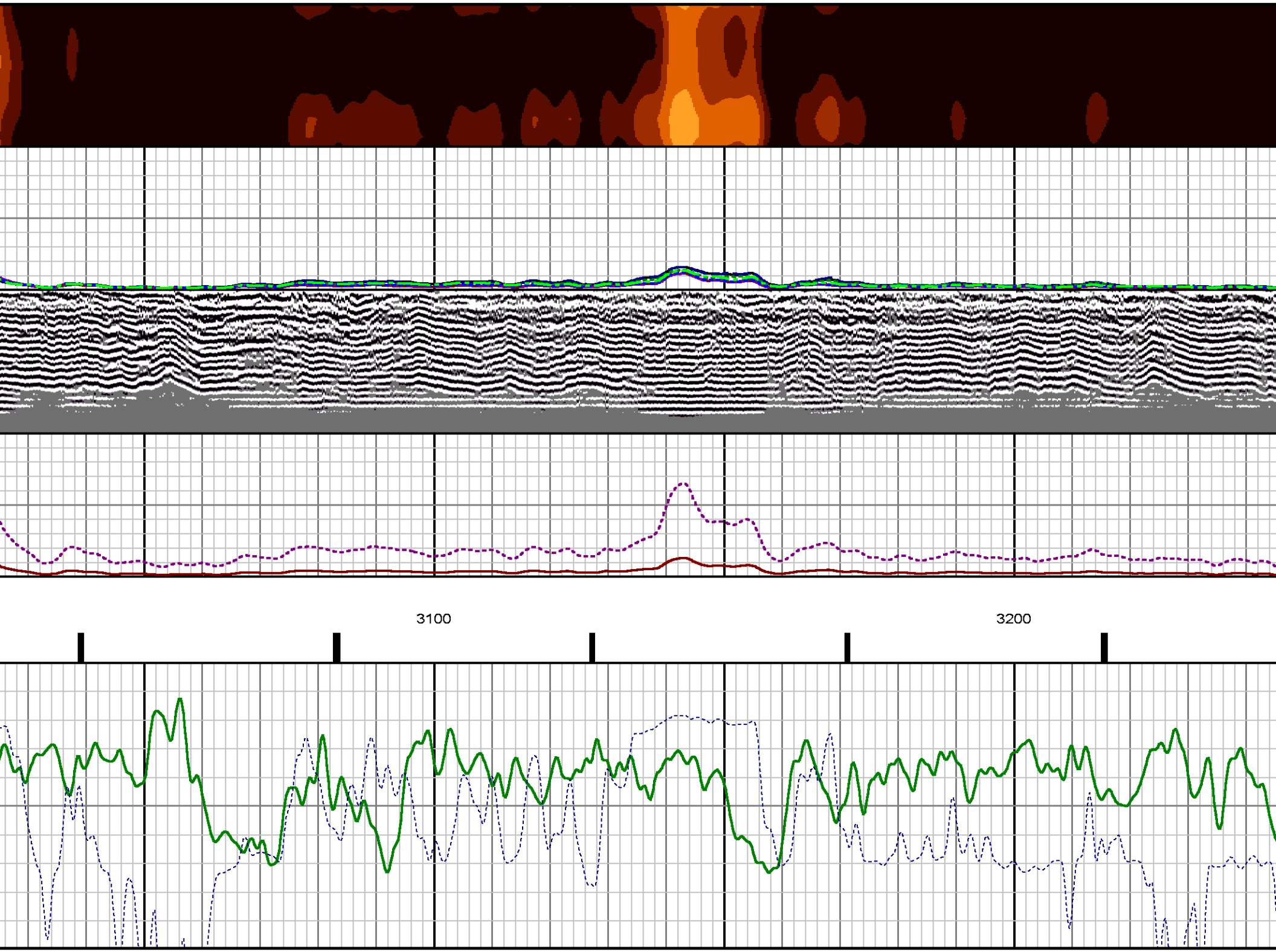
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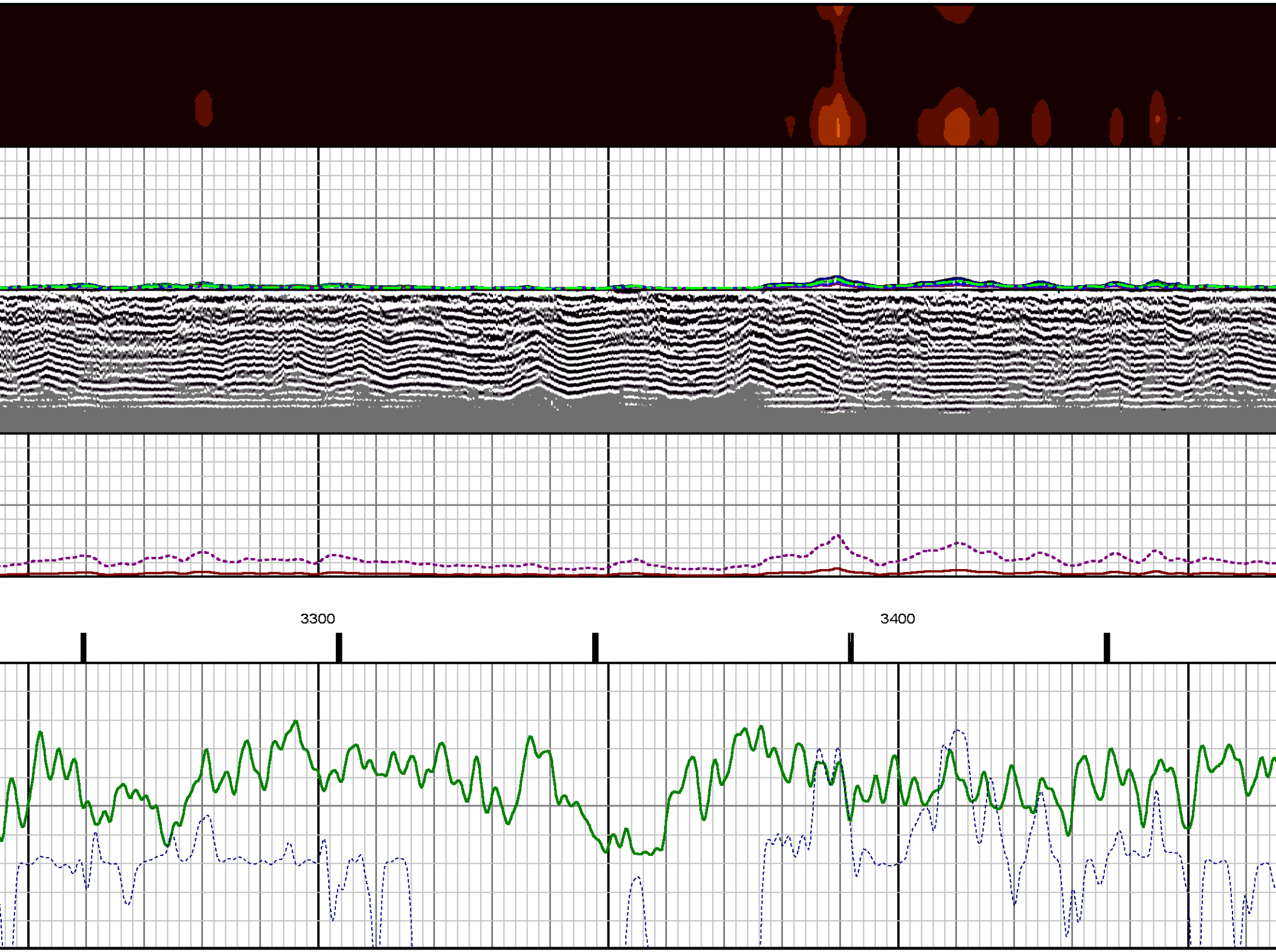
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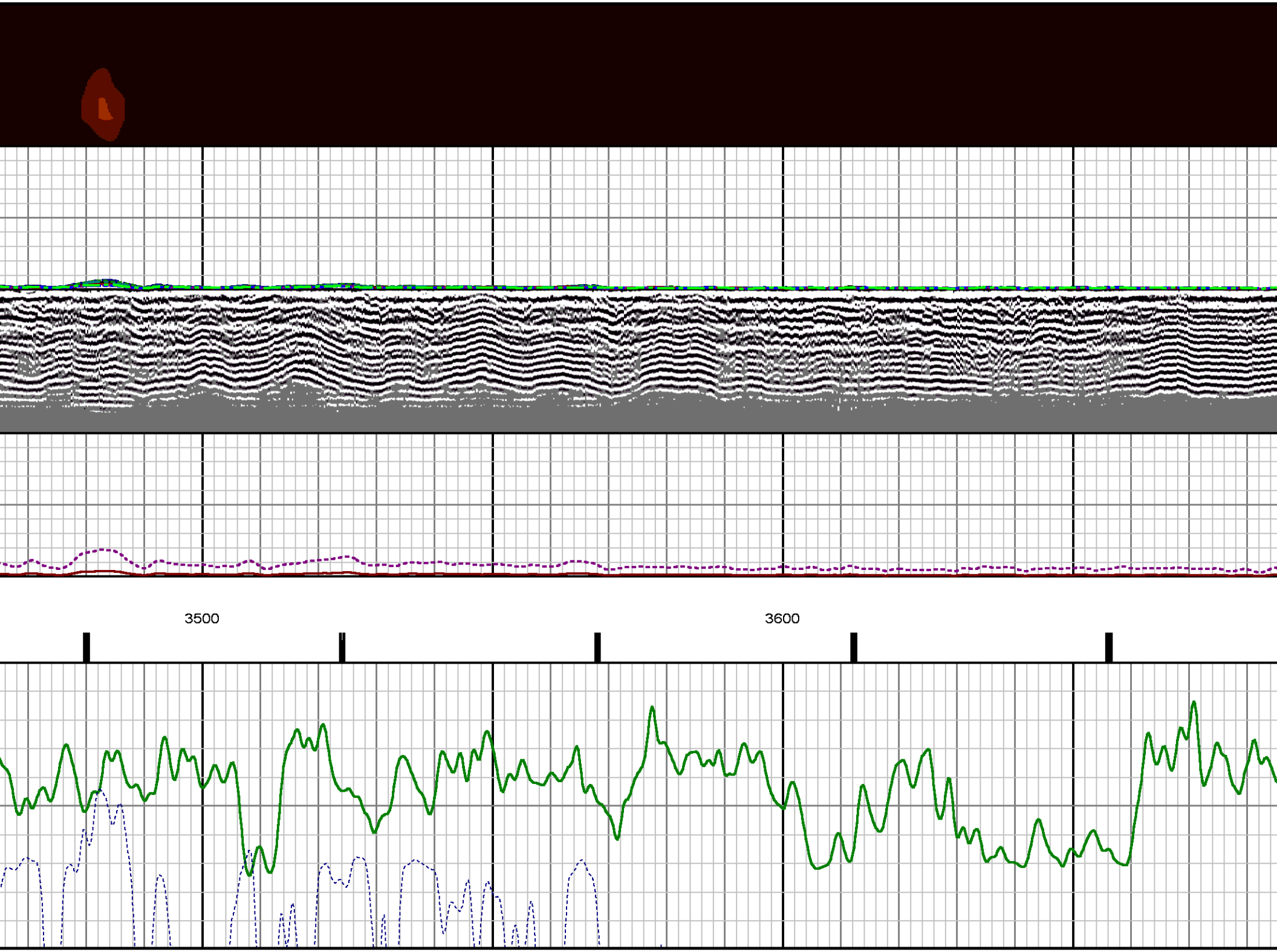
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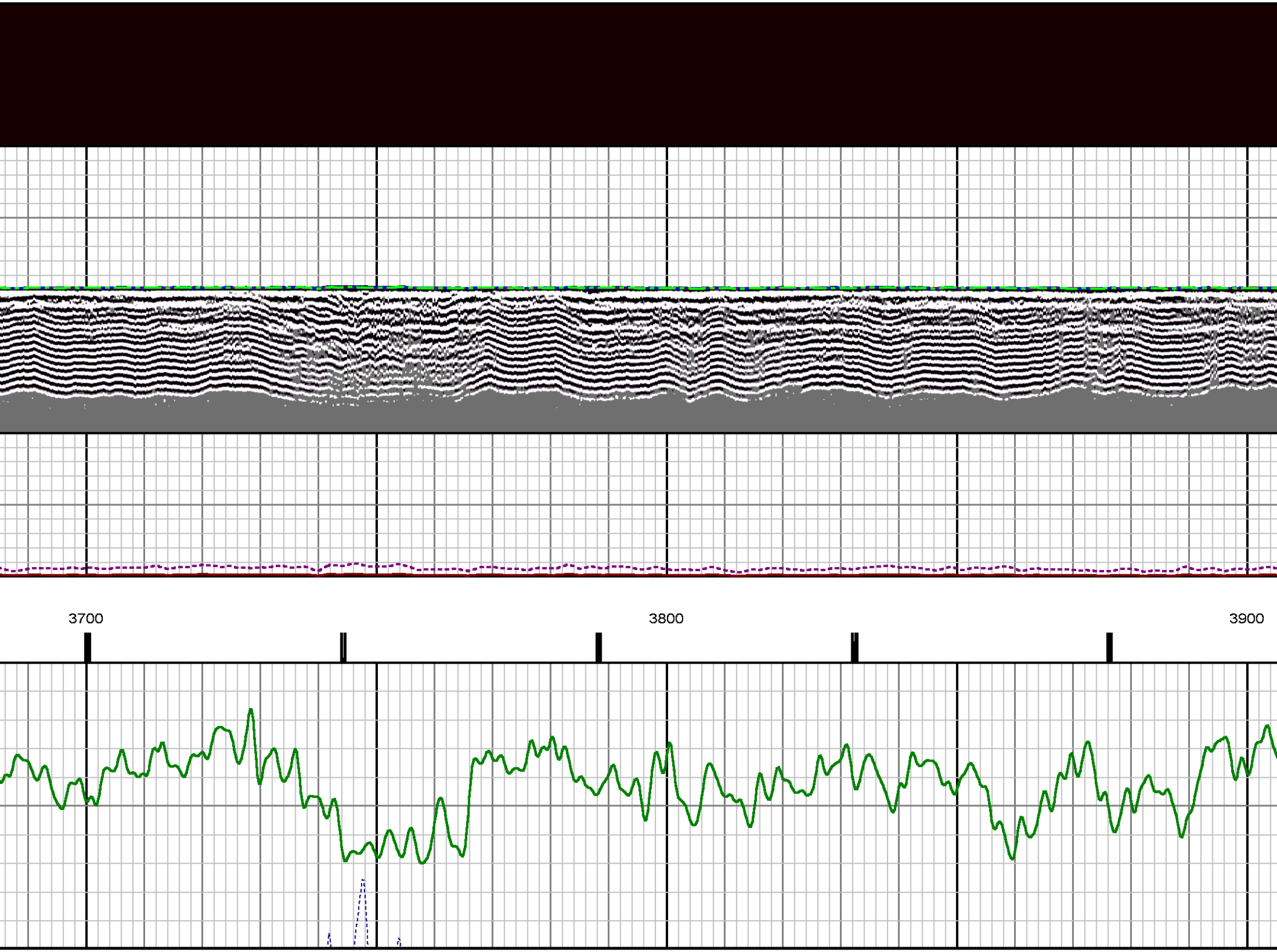
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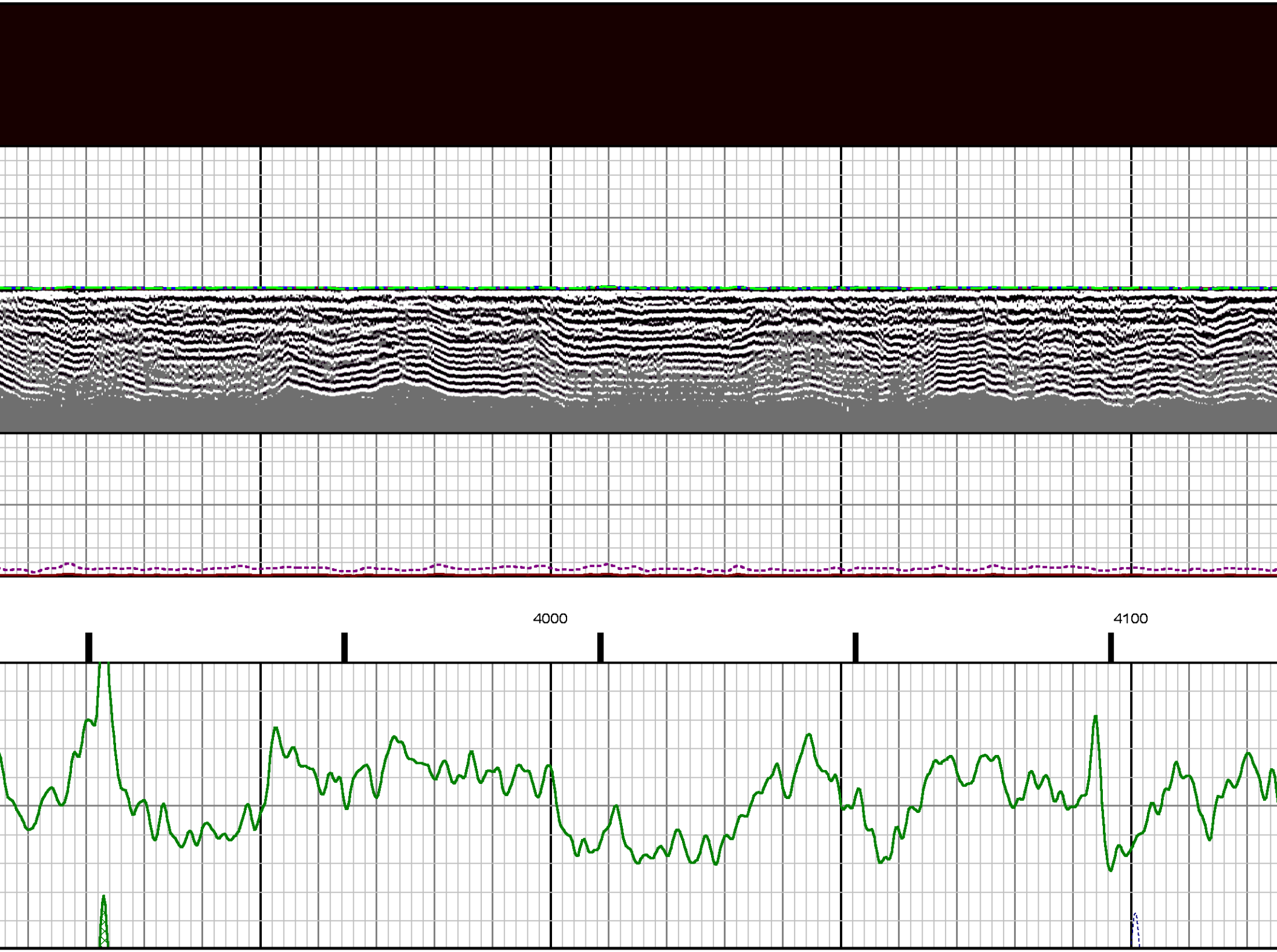
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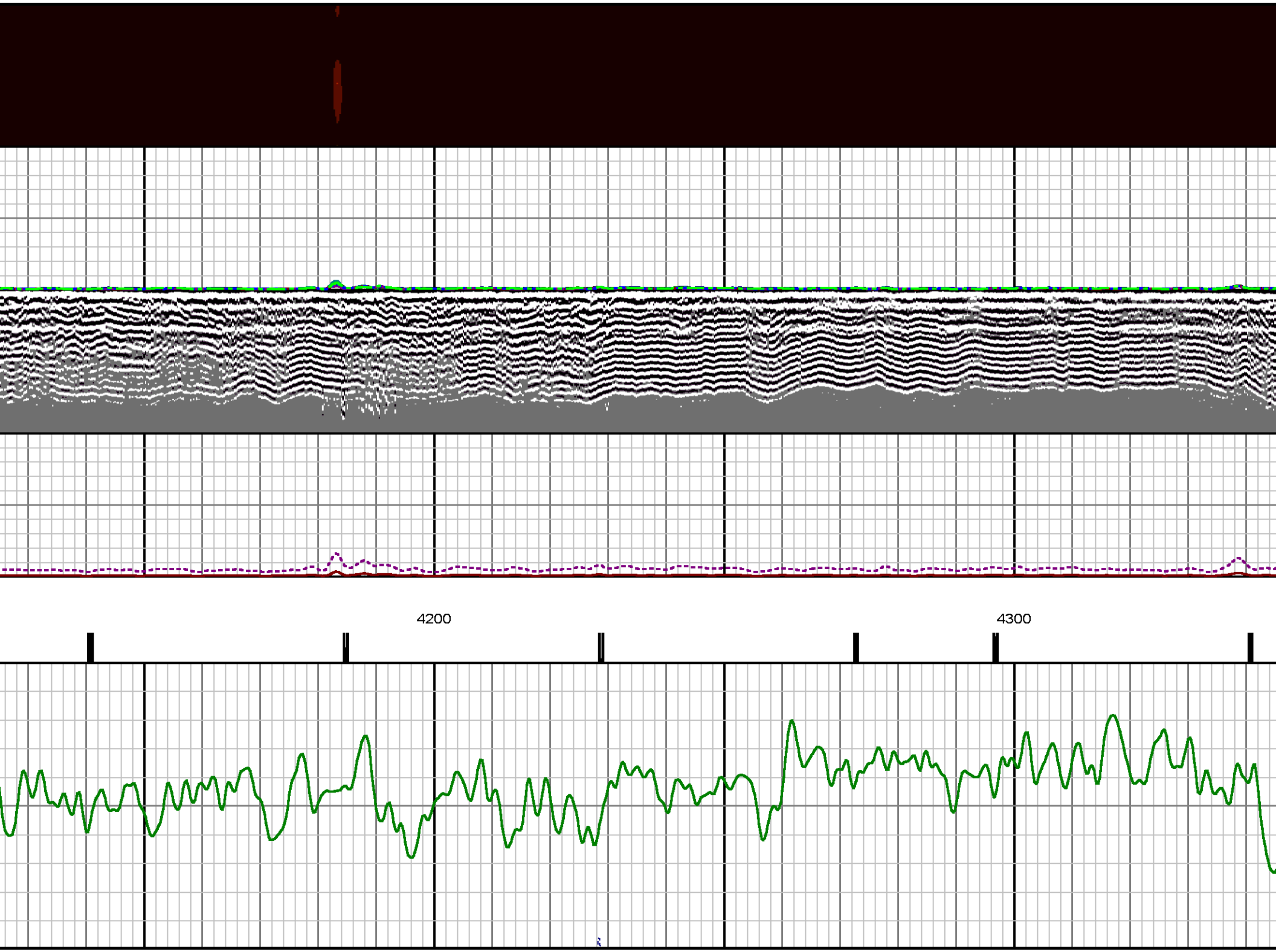
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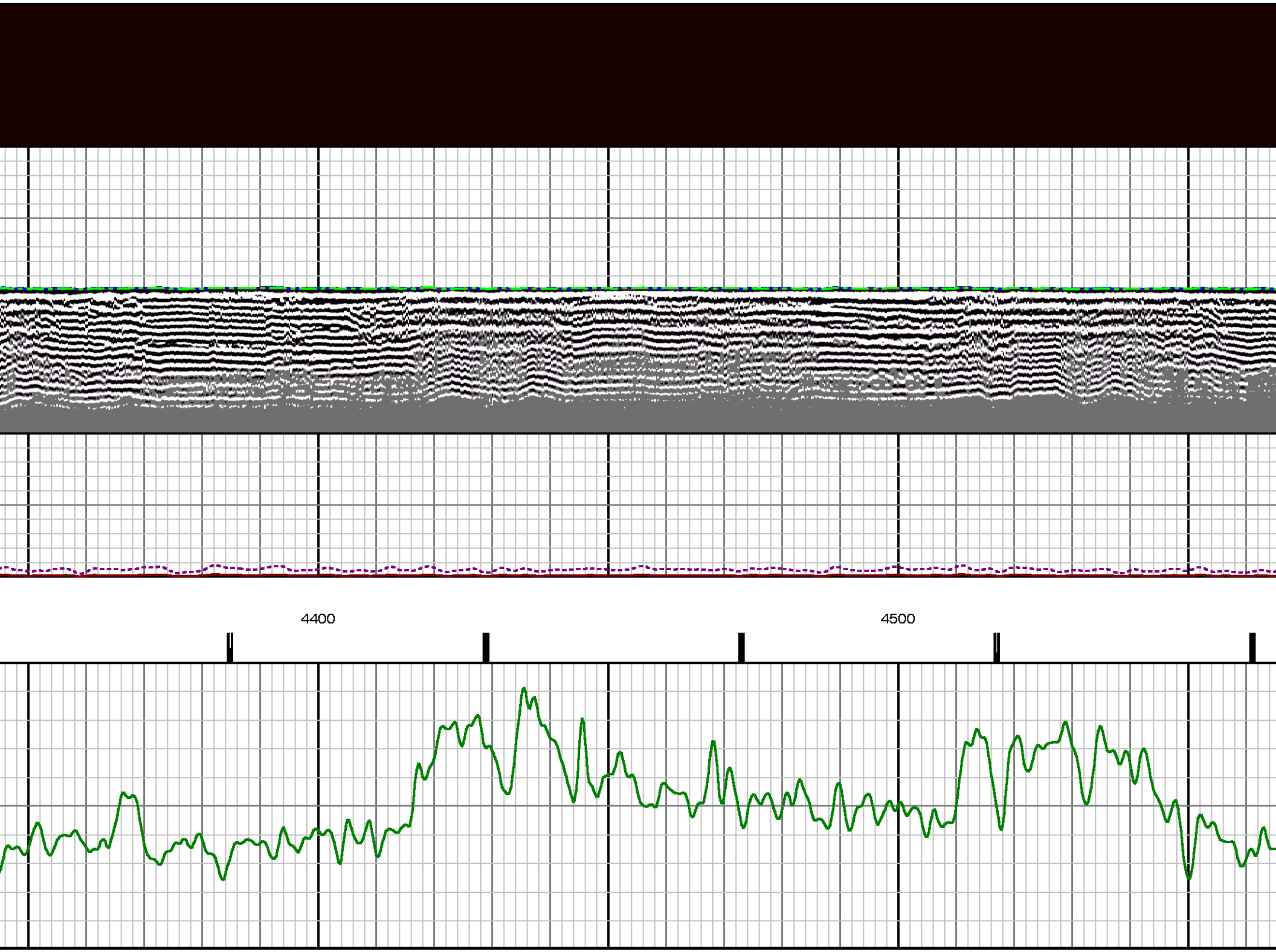
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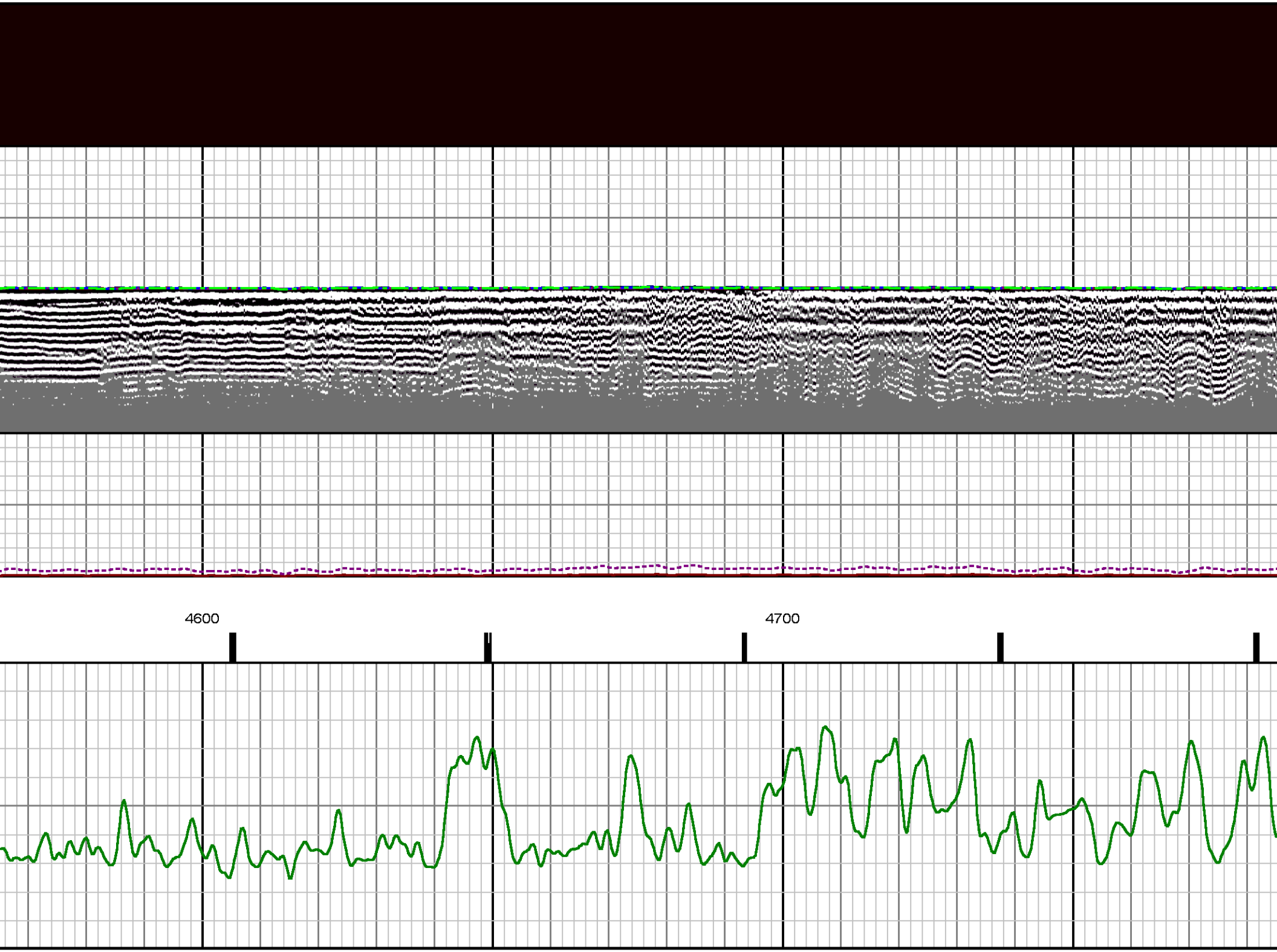
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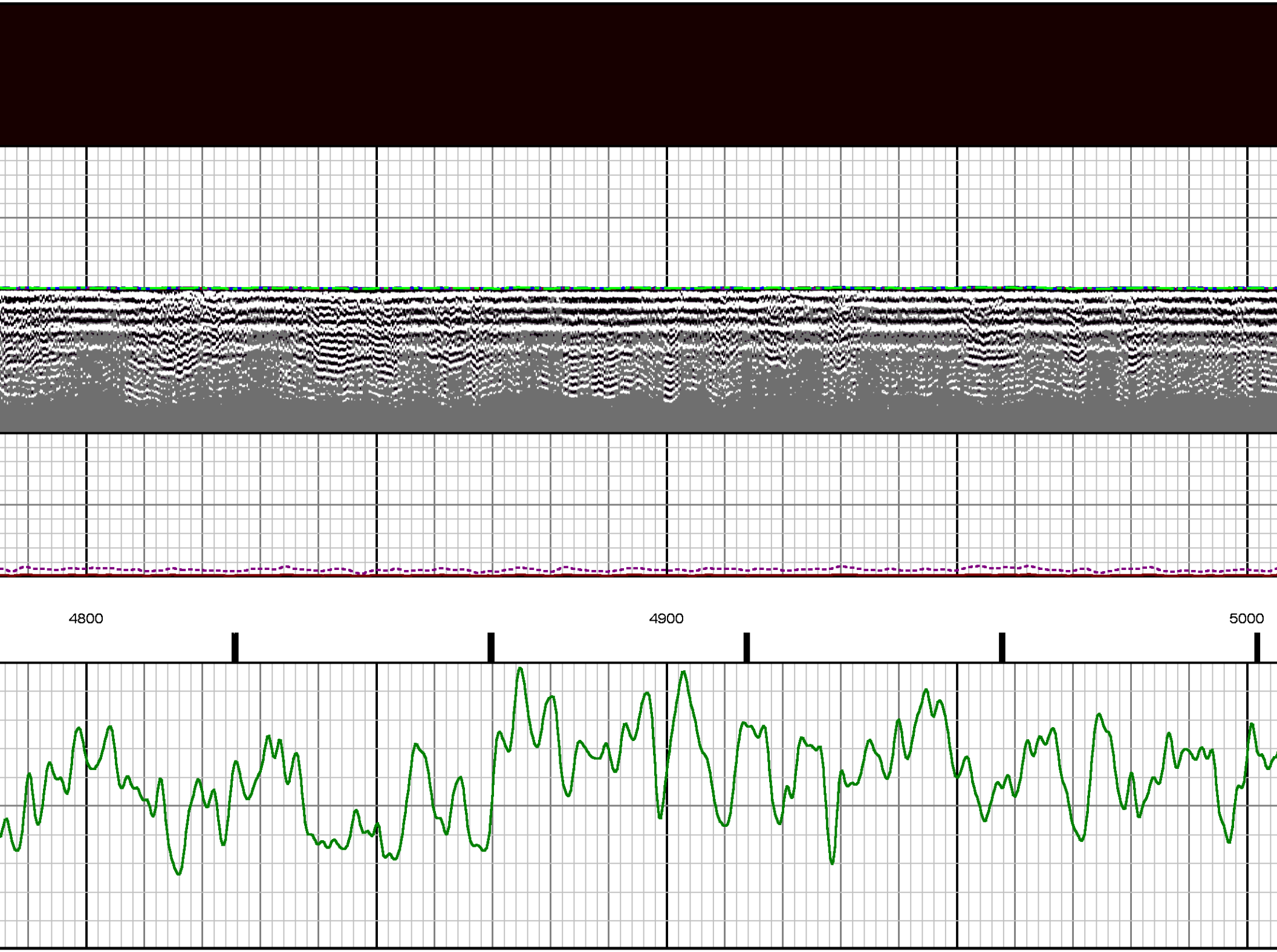
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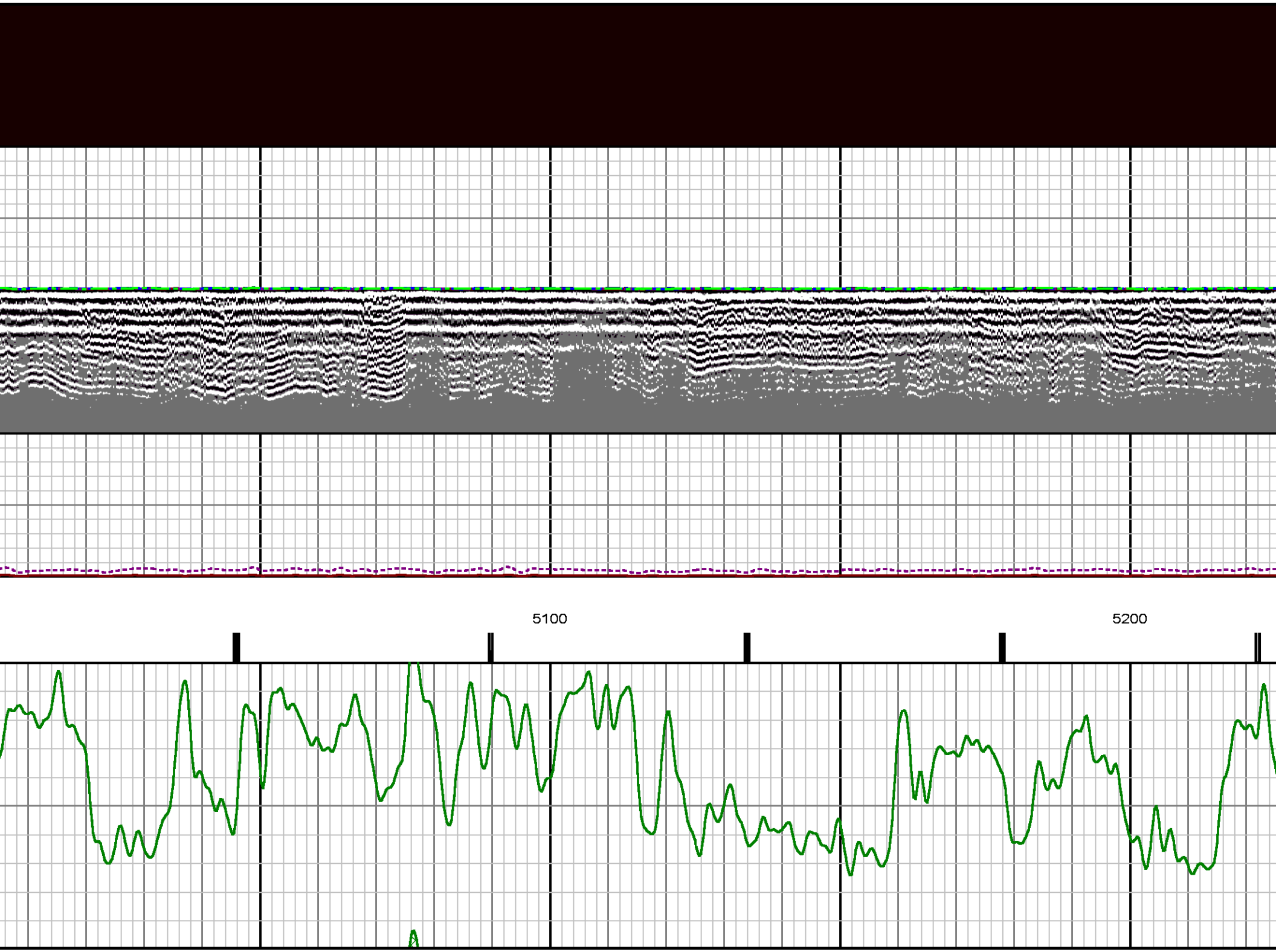
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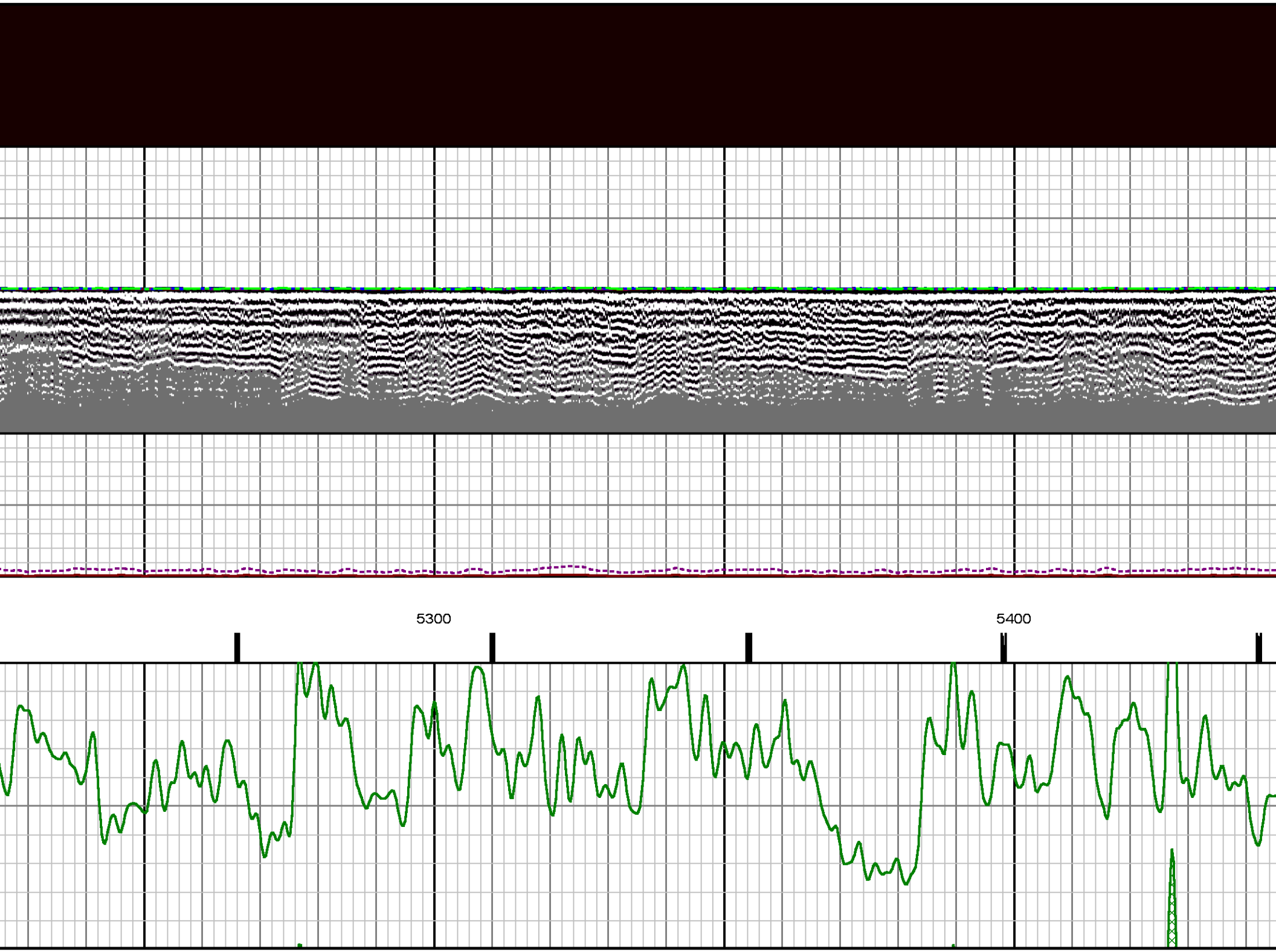
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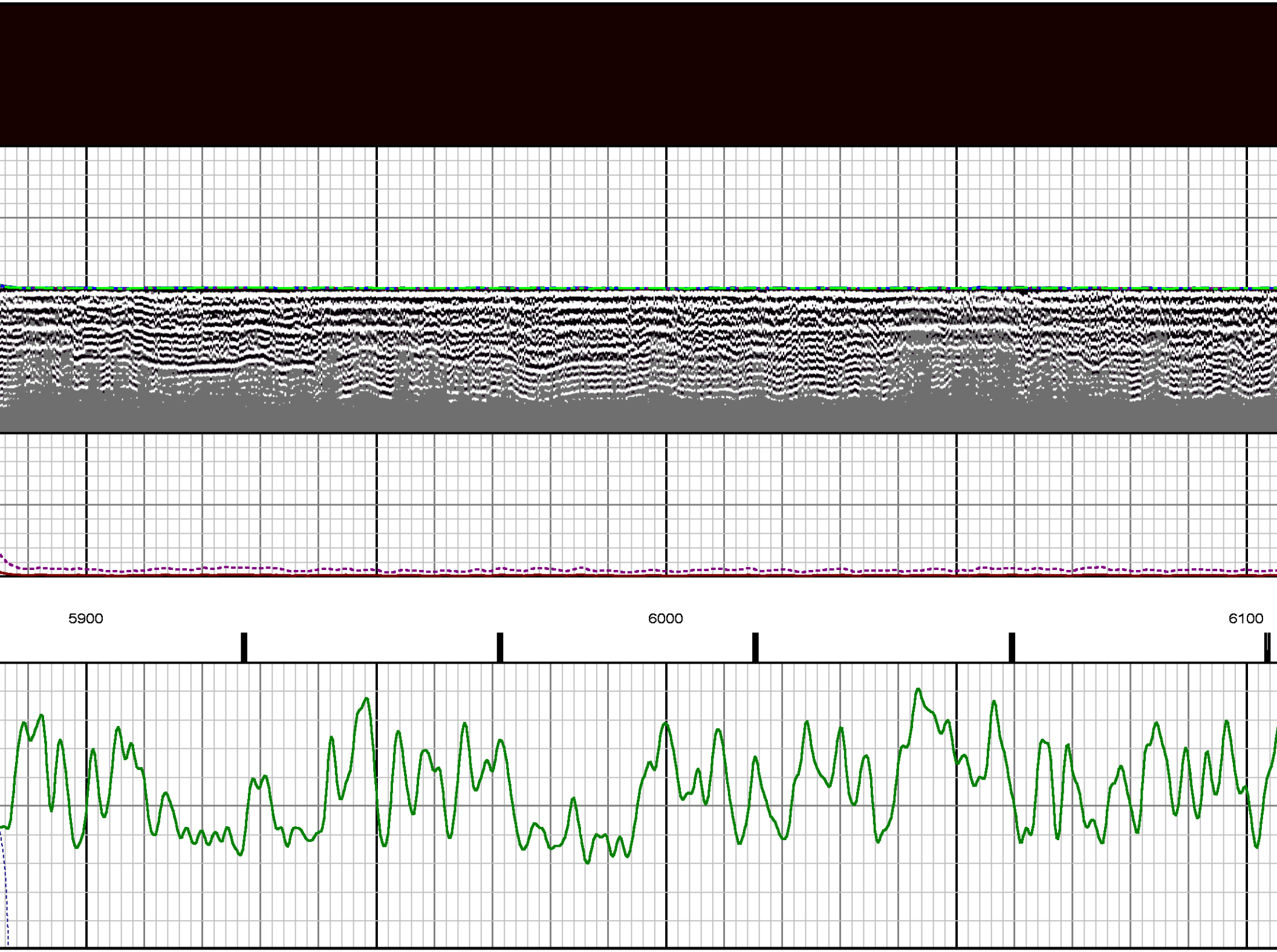
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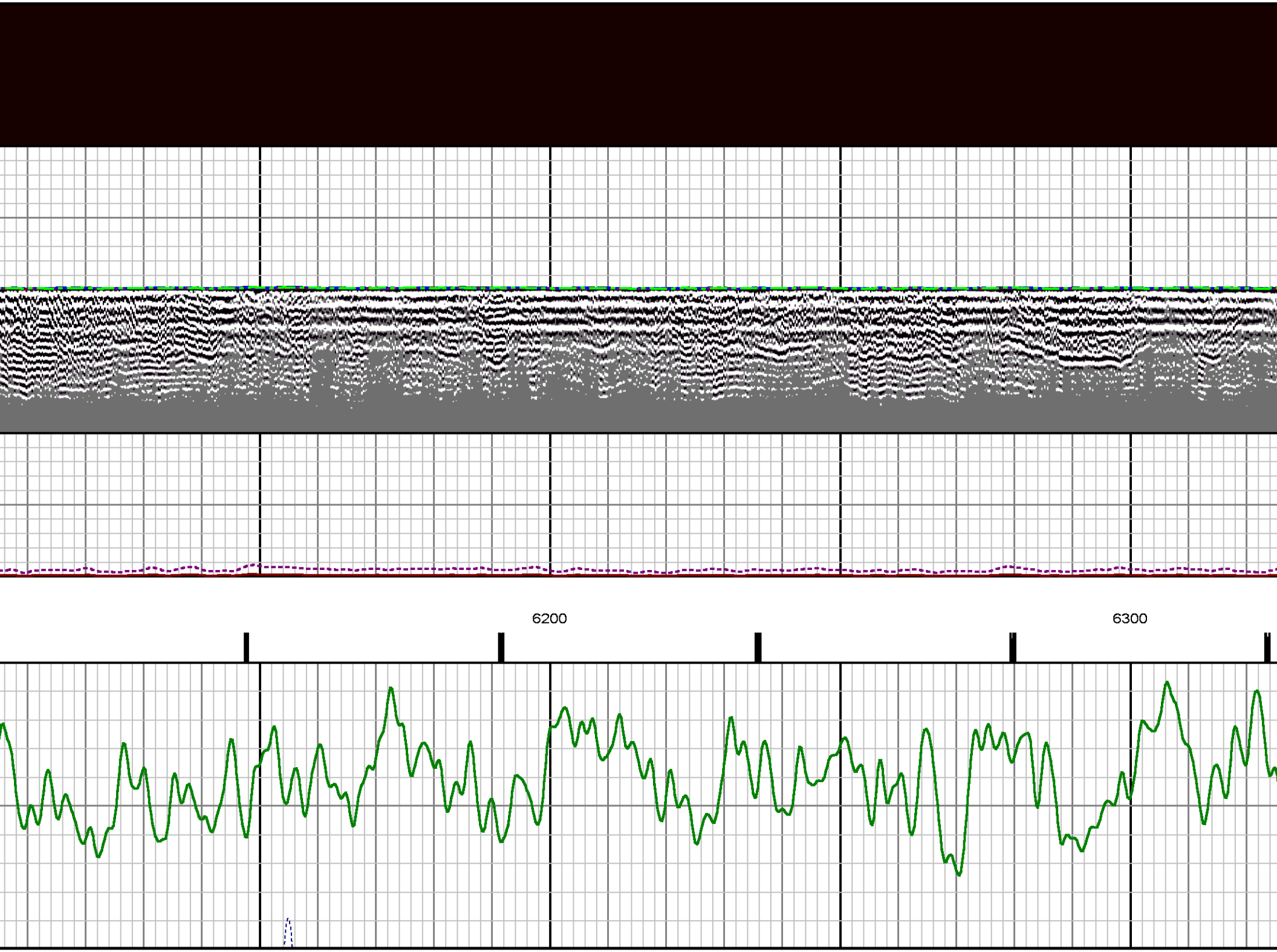
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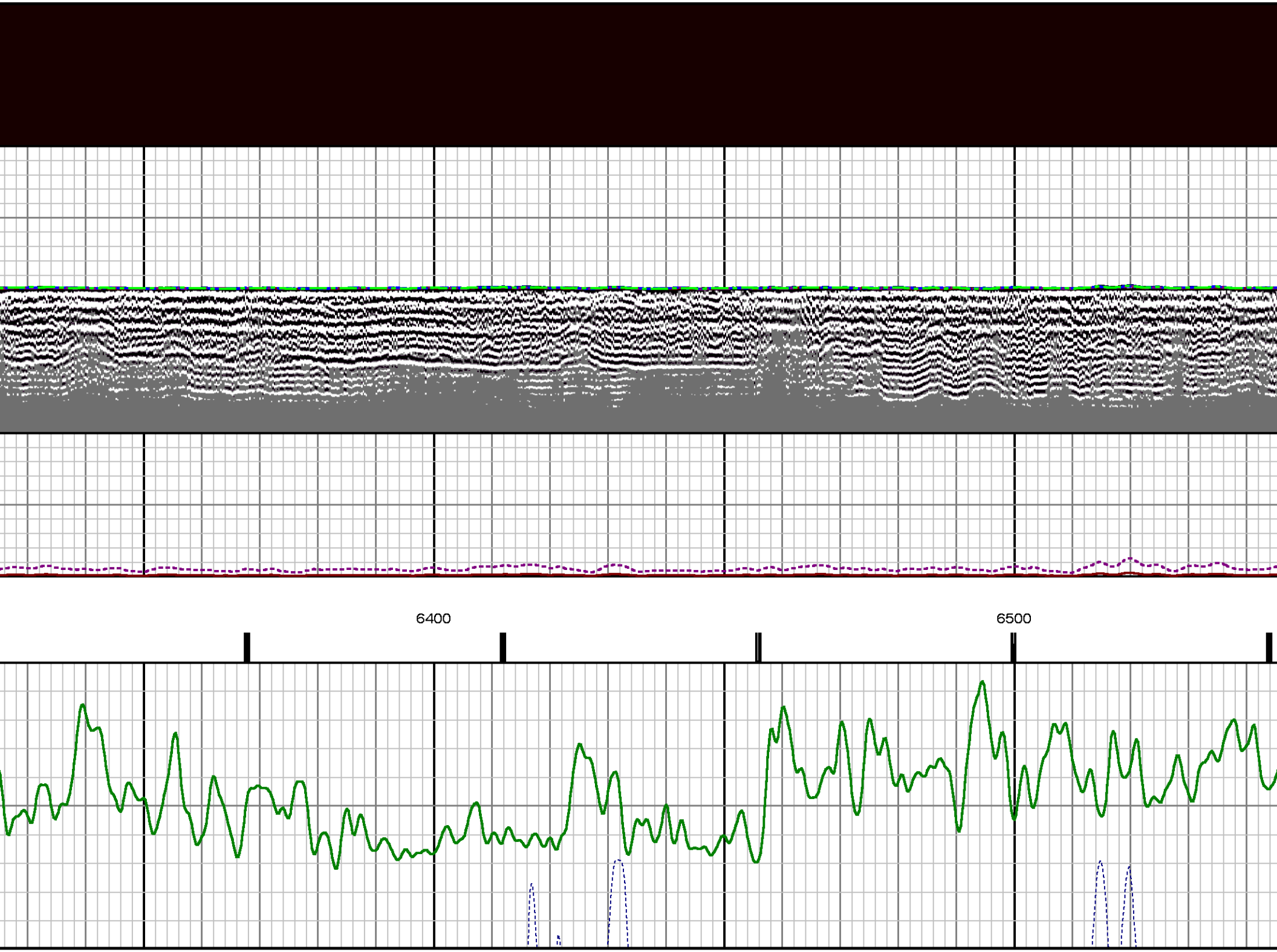
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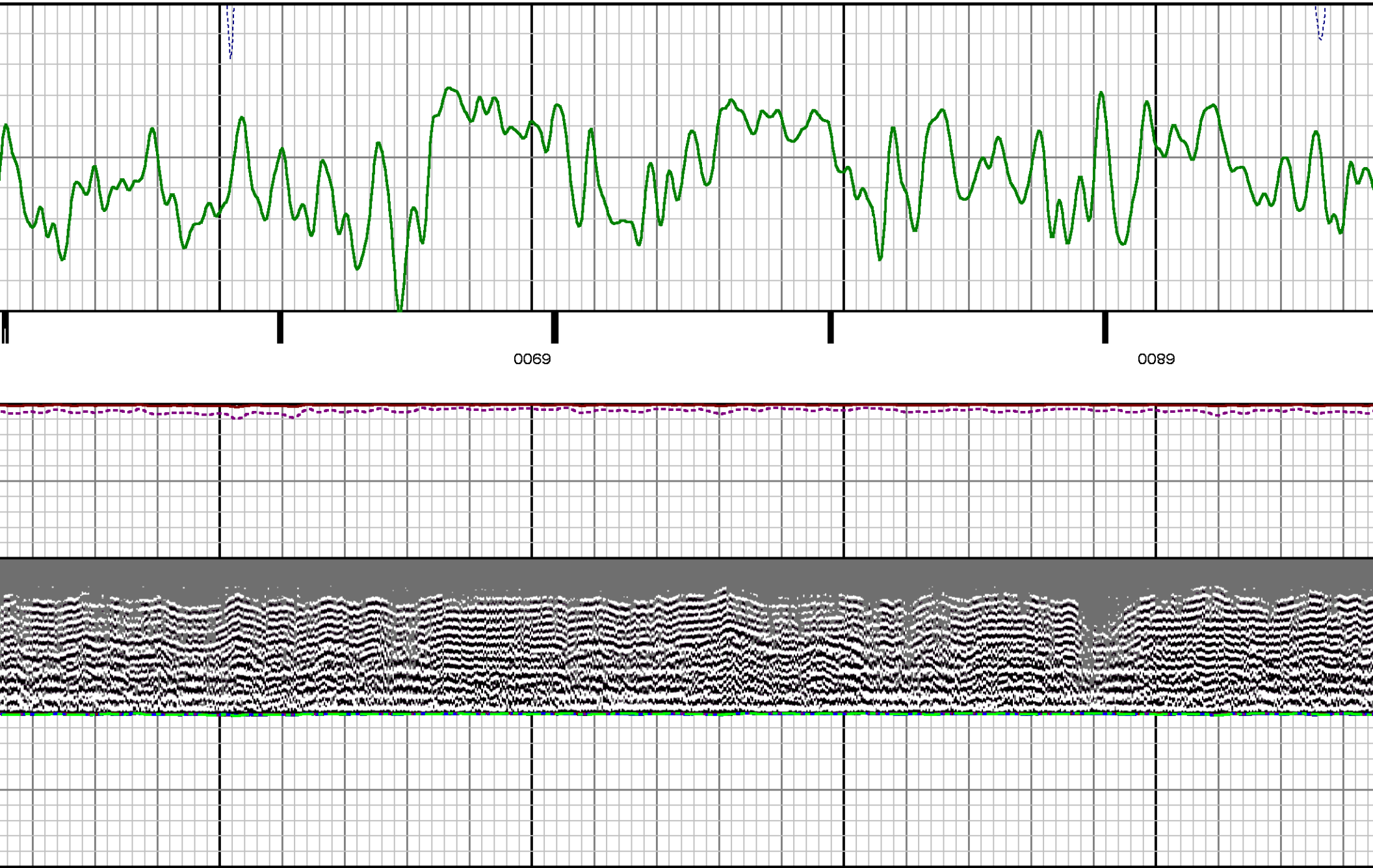
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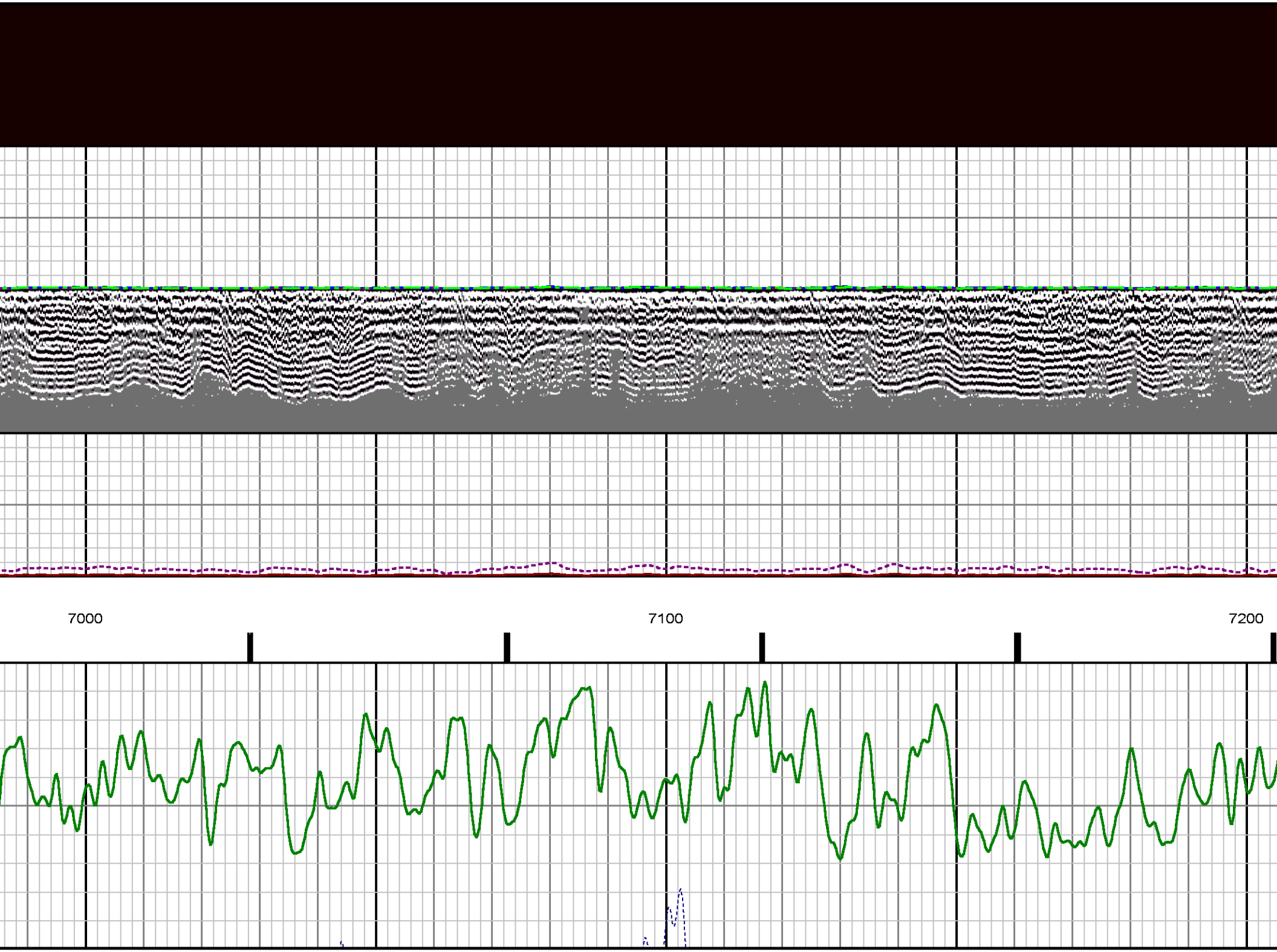
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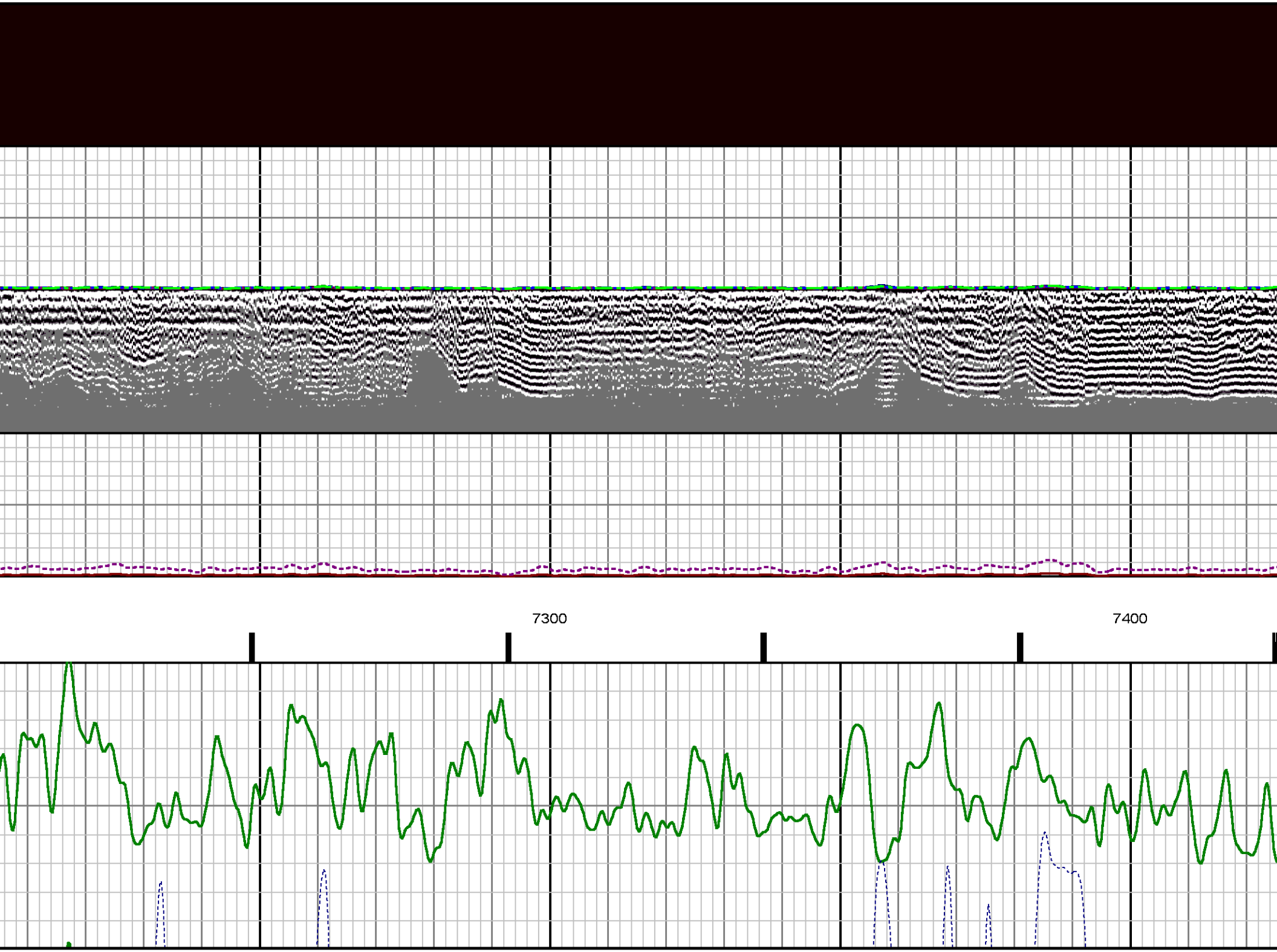
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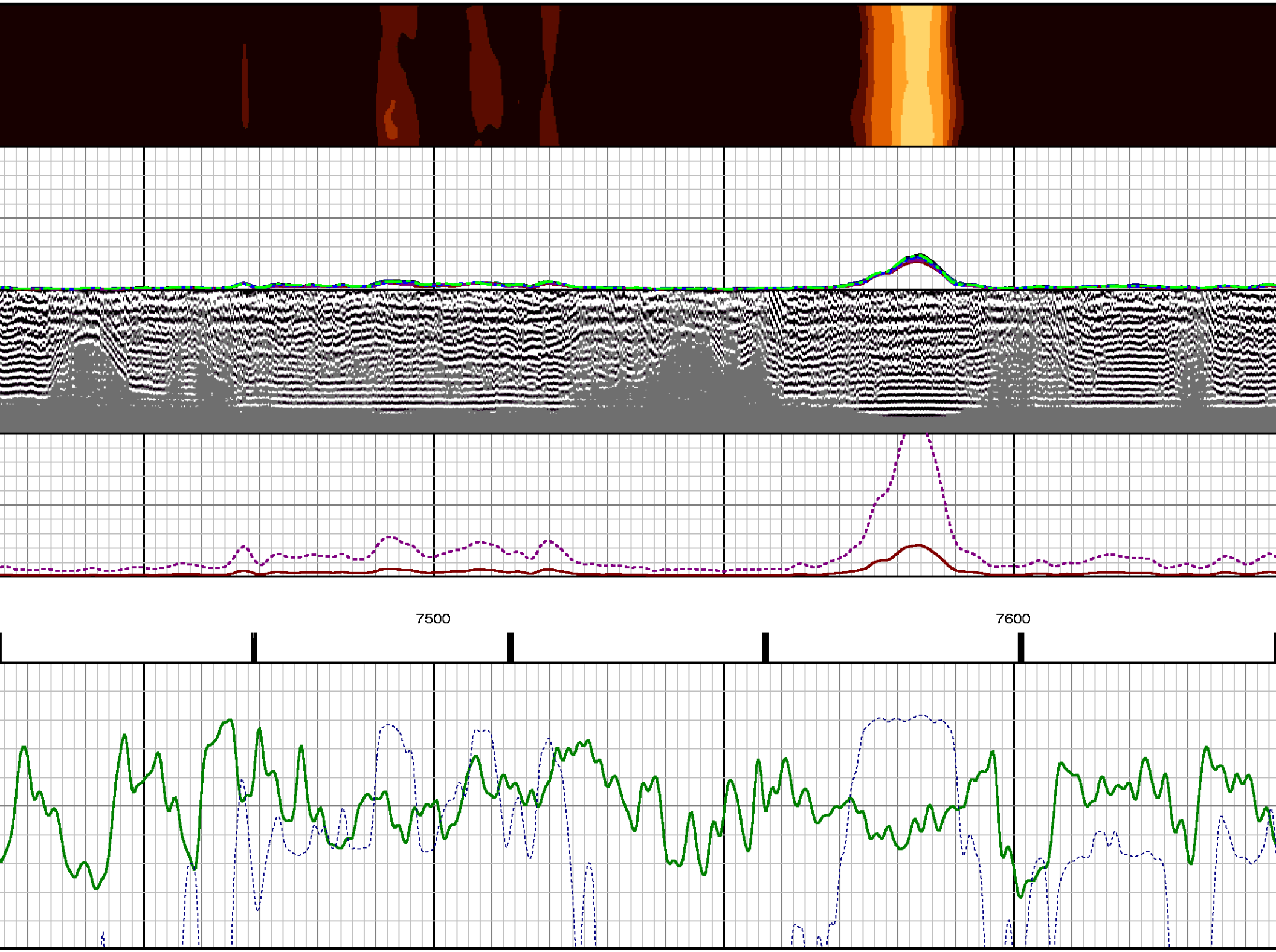
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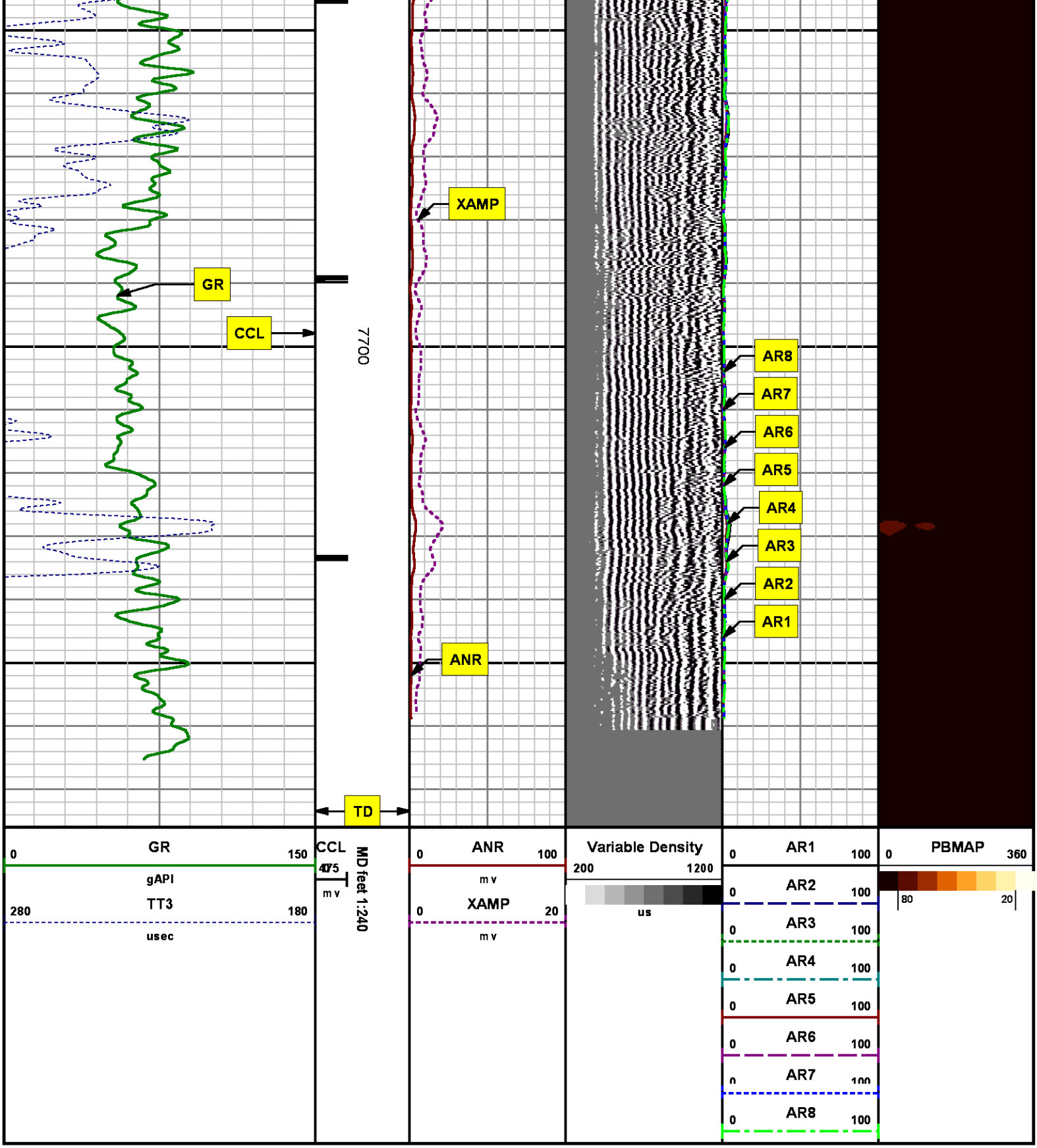


REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7436.650	7772.650
RAL	Amp Gate Start Near	195.000	usec	7436.650	7772.650
RAL	Amp Gate Start Radial	195.000	usec	7436.650	7772.650
RAL	Amp Gate Width Far	25.000	usec	7436.650	7772.650
RAL	Amp Gate Width Near	25.000	usec	7436.650	7772.650
RAL	Amp Gate Width Radial	25.000	usec	7436.650	7772.650
RAL	casing od	4.500	inches	7436.650	7772.650
RAL	casing wt	11.600	lbm/ft	7436.650	7772.650
RAL	FB Start Far	291.900	usec	7436.650	7772.650
RAL	FB Start Near	180.000	usec	7436.650	7772.650
RAL	FB Start Radial	18.000	usec	7436.650	7772.650
RAL	FB Thresh Far	10.000	mv	7436.650	7772.650
RAL	FB Thresh Near	4.000	mv	7436.650	7772.650
RAL	FB Thresh Radial	4.000	mv	7436.650	7772.650
RAL	Fluid Travel Time	200.000	usec/ft	7436.650	7773.181

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	-16.750	ACAL ANR AR1 AR2 AR3 AR4 AR5 AR6 AR7 AR8 CHV FPR2 FPR3 FPR5 TT3 TTR1 TTR2 TTR3 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
1426XA	-15.750	AFAR SIG TT5
2459XA	-11.340	CCL
2459XA	-9.490	GR
2459XA	-4.090	NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

Well : WPX ENERGY PA 524-2

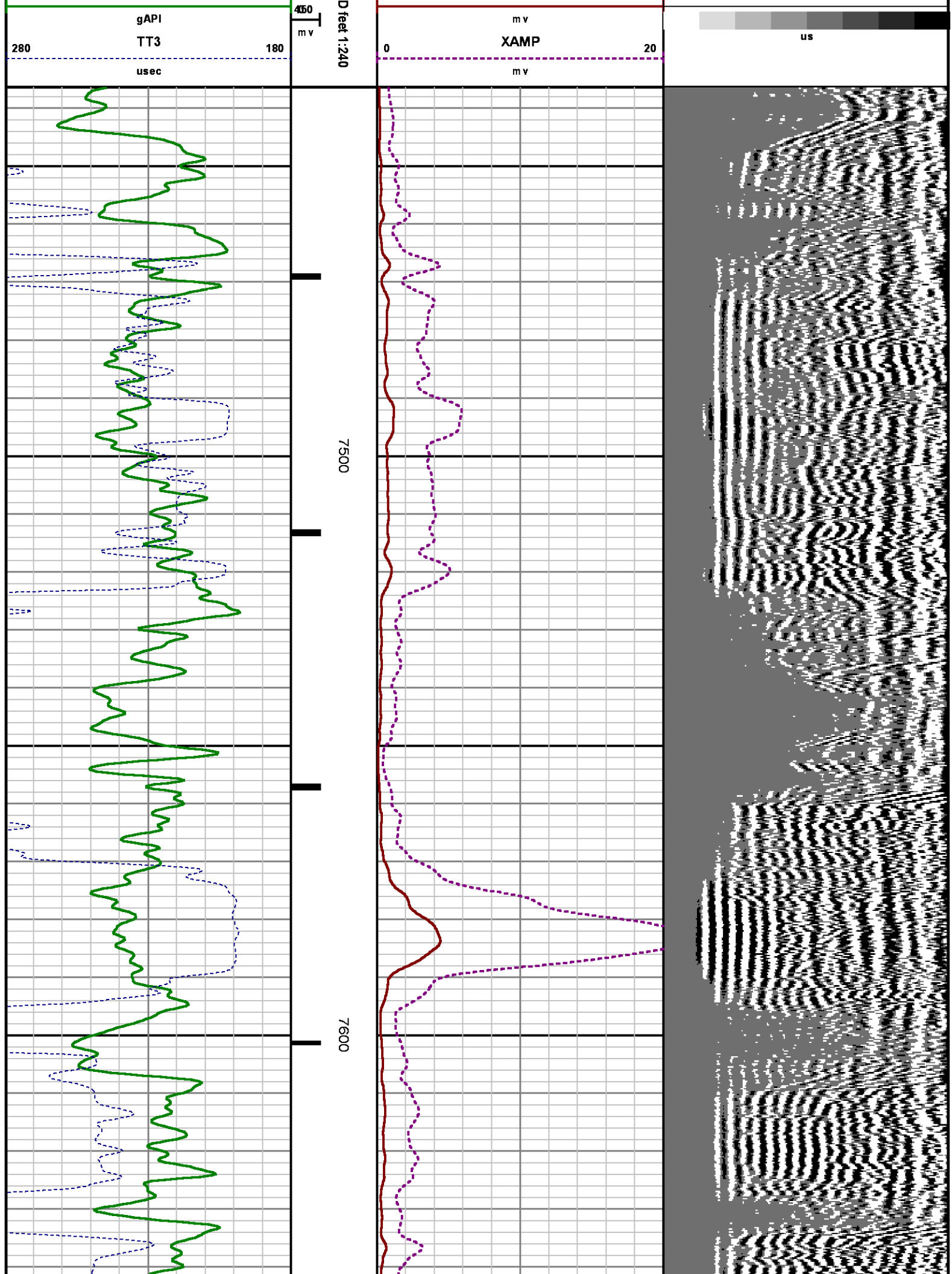
File Name : d:\welldata\wpx\pa 524-2\524ral\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 7436.40 - 7773.15 feet UP

Created : 4/30/2014 8:11:41 AM

0 GR 150	CCL	0 ANR 100	200 Variable Density 1200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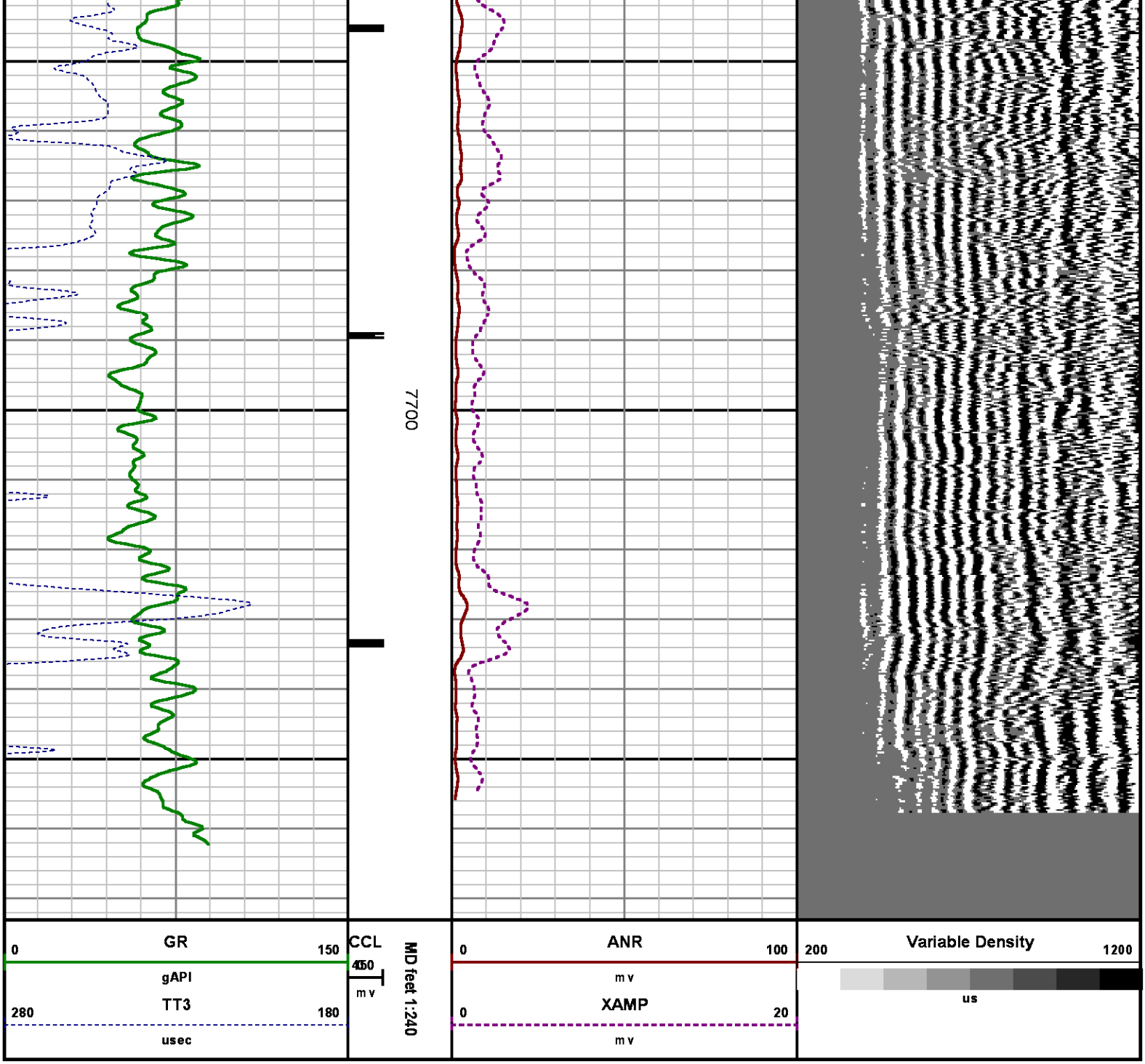


CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496A29_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Apr 29 12:08:57 2014 **TOOL SERIES:** 1426XA **ASSET:** 496 **SEQ:** A29

Tool Delay [usec]	Tank OD in	Tank Wt lbm/ft	Tank ID in
-51.00	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	0.208	100.00	0.31
3 Ft. Receiver	217	216	30	166	25	1.510	100.00	0.31
5 Ft. Receiver	327	332	30	282	25	2.840	150.00	0.35
Radial #1	217	216	30	166	25	1.090	100.00	0.31
Radial #2	218	216	30	166	25	0.741	100.00	0.31
Radial #3	218	216	30	166	25	0.881	100.00	0.31
Radial #4	218	216	30	166	25	1.058	100.00	0.31
Radial #5	217	216	30	166	25	1.388	100.00	0.31
Radial #6	216	216	30	166	25	1.409	100.00	0.31
Radial #7	216	216	30	166	25	0.685	100.00	0.30
Radial #8	218	216	30	166	25	0.793	100.00	0.30

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496A29_fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Apr 29 12:11:43 2014 **TOOL SERIES:** 1426XA **ASSET:** 496 **SEQ:** A29

Tool Delay [usec]	Casing OD in	Casing Wt lbm/ft	Casing ID in
-51.00	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	0.003	0.000	1.00	100.000
3 Ft. Receiver	195	25	2.373			
5 Ft. Receiver	305	25	3.229			
Radial #1	195	25	1.608			
Radial #2	195	25	1.574			
Radial #3	195	25	1.874			
Radial #4	195	25	1.903			
Radial #5	195	25	2.155			
Radial #6	195	25	2.219			
Radial #7	195	25	1.846			
Radial #8	195	25	1.836			

GAMMA RAY

Calibration File: C:\case\calver\GR\38219.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Apr 19 16:31:28 2014 **TOOL SERIES:** 2812LA **ASSET:** 382 **SEQ:** 19

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K	51.88	260.02	1.009	52.34	262.34	210.00

Verification File: C:\case\calver\GR\38219.VP

PRIMARY VERIFICATION

DATE/TIME PERFORMED: Sat Apr 19 16:38:08 2014 **TOOL SERIES:** 2812LA **ASSET:** 382 **SEQ:** 19

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	51.54	263.60	1.009	52.00	265.95	213.95

TOOL DIAGRAM

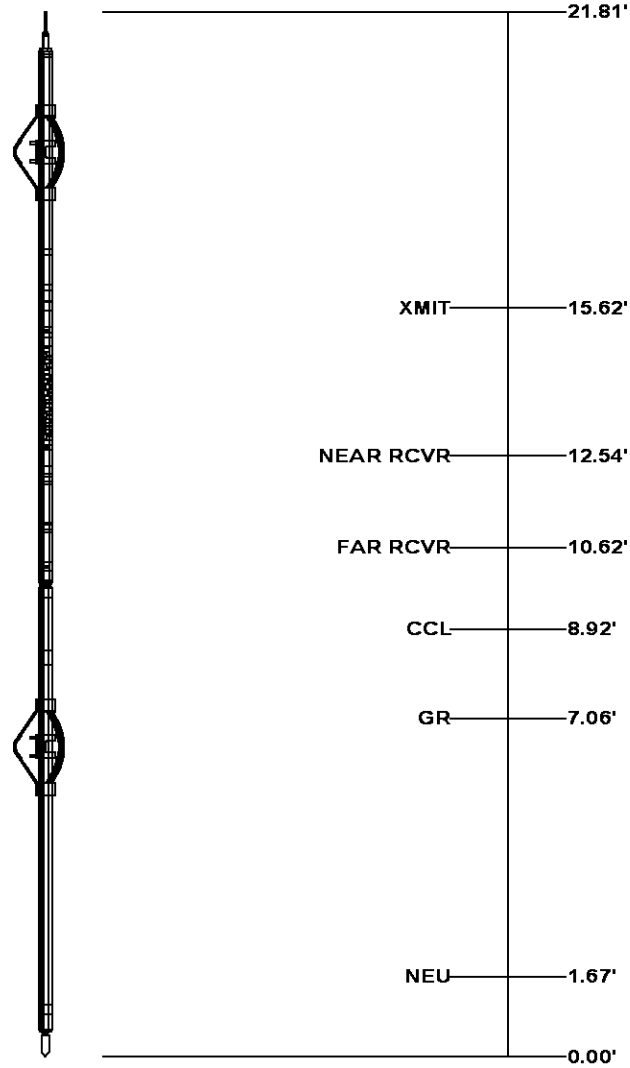
OTA SHORT CABLE HEAD

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 **Well** WPX ENERGY PA 524-2 **Field** PARACHUTE **County** GARFIELD **State** COLORADO		**File No:** CH085272 **API No:** 05045221490000
	Location SHL: 2001' FSL & 1575' FWL BHL: 184' FSL & 2105' FWL (SESW) **SEC** 2 **TWP** 7S **RGE** 95W	**Elevations** KB 5846 ft DF GL 5821 ft	2 7S 95W GV 86-2 PAD AZTEC 1000