BAKER HUGHES

Baker Atlas

RADIAL ANALYSIS BOND LOG

File No:	CH083903
API No:	05045221420000
Company	WPX ENERGY
Well	WPX ENERGY PA 313-2
Field	PARACHUTE
County	GARFIELD
State	COLORADO

Location

2 7S 95W

GV 86-2 PAD

AZTEC 1000

SHL: 2047' FSL & 1549' FWL

BHL: 2135' FSL & 303' FWL

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	20/MAR/14		
Run	ONE		
Service Order	US625363		
Depth Driller	7620 ft		
Depth Logger	7591 ft		
Bottom Logged Interval	7581 ft		
Top Logged Interval	25 ft		
Time Started	1100		
Time Finished	1400		
Operator Rig Time	3 HRS		
Type of Fluid in Hole	WATER		
Fluid Density	NA		
Salinity	NA		
Fluid Level	66 ft		
Logged Cement Top	NA		
Wellhead Pressure	0 psi		
Maximum Hole Deviation	NA		
Nominal Logging Speed	65 fpm		
Maximum Recorded Temperature	221 degF		
Reference Log	BAKER HUGHES BOND LOG		
Reference Log Date	20/MAR/14		
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	1082 ft
4.5 in	11.6 lbm/ft	I-80	25 ft	7620 ft

Borehole Record

Bit Size	From	To
13.5 in	25 ft	1082 ft
8.75 in	1082 ft	7620 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 8 feet.

Logged with zero PSI at wellhead.

BHT = 221°F

SJ = 4361'-4385'

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	34.718	7593.000
RAL	Amp Gate Start Near	195.000	usec	34.718	7593.000
RAL	Amp Gate Start Radial	195.000	usec	34.718	7593.000
RAL	Amp Gate Width Far	25.000	usec	34.718	7593.000
RAL	Amp Gate Width Near	25.000	usec	34.718	7593.000
RAL	Amp Gate Width Radial	25.000	usec	34.718	7593.000
RAL	casing od	4.500	inches	34.718	7593.000
RAL	casing wt	11.600	lbm/ft	34.718	7593.000
RAL	FB Start Far	291.900	usec	34.718	7593.000
RAL	FB Start Near	180.000	usec	34.718	7593.000
RAL	FB Start Radial	180.000	usec	34.718	7593.000
RAL	FB Thresh Far	10.000	mv	34.718	7593.000
RAL	FB Thresh Near	4.000	mv	34.718	7593.000
RAL	FB Thresh Radial	4.000	mv	34.718	7593.000
RAL	Fluid Travel Time	200.000	usec/ft	34.718	7593.812

DEPTH OFFSETS

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 313-2

File Name : d:\welldata\wpx\pa 313-2\312ral\main.xtf

Mode : PlotMgr 5.4.504

Interval : -12.00 - 7593.75 feet UP

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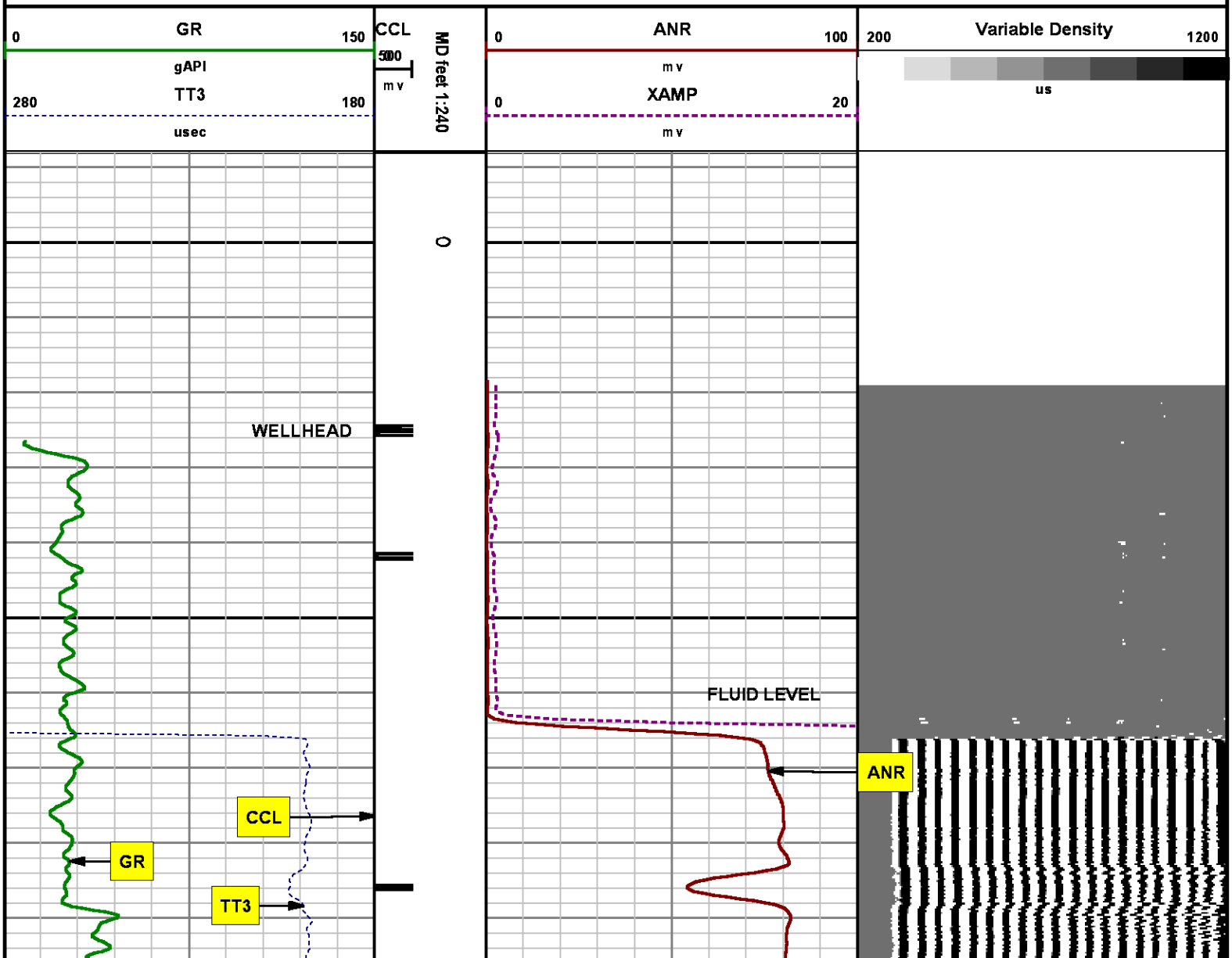

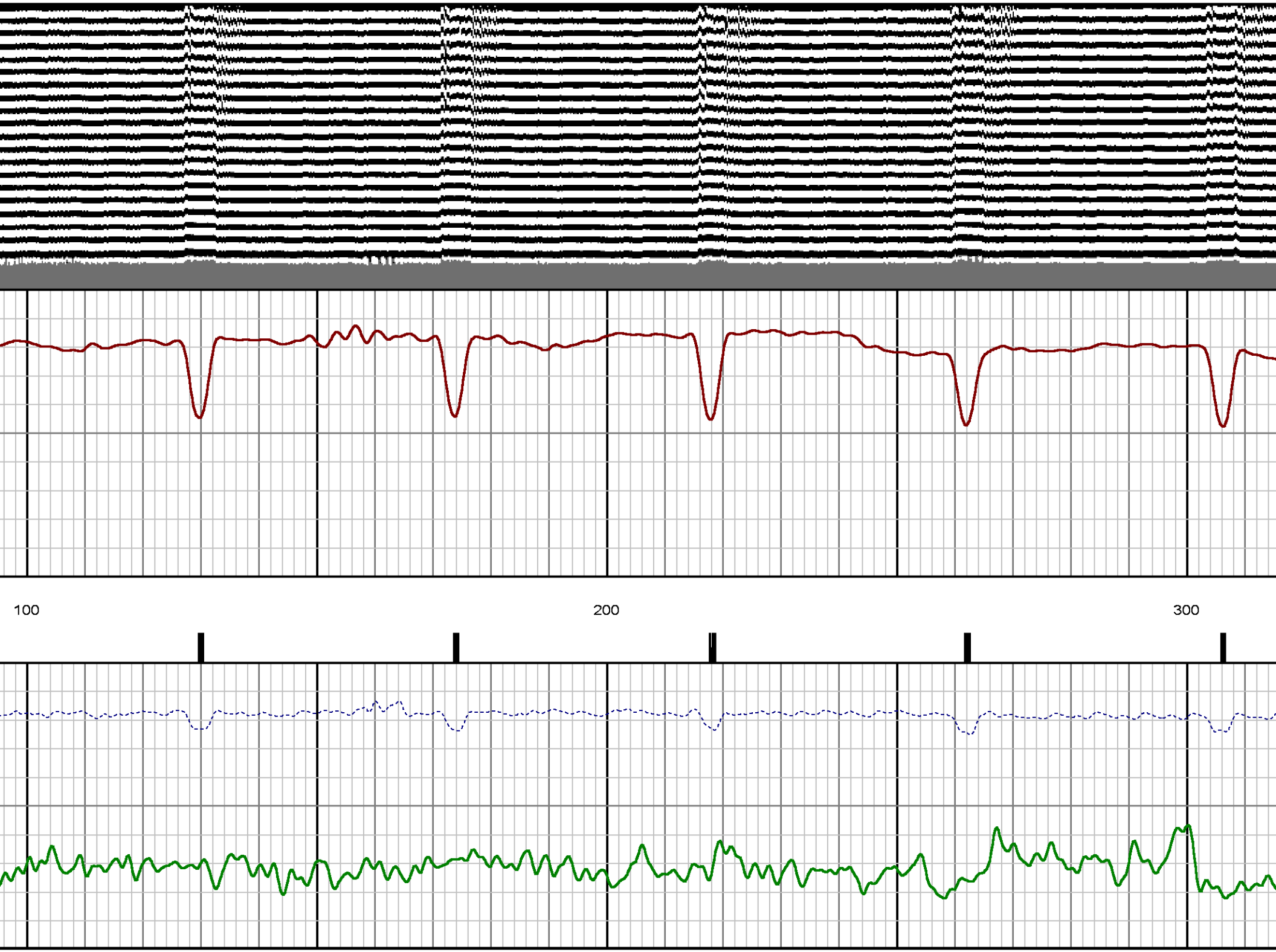
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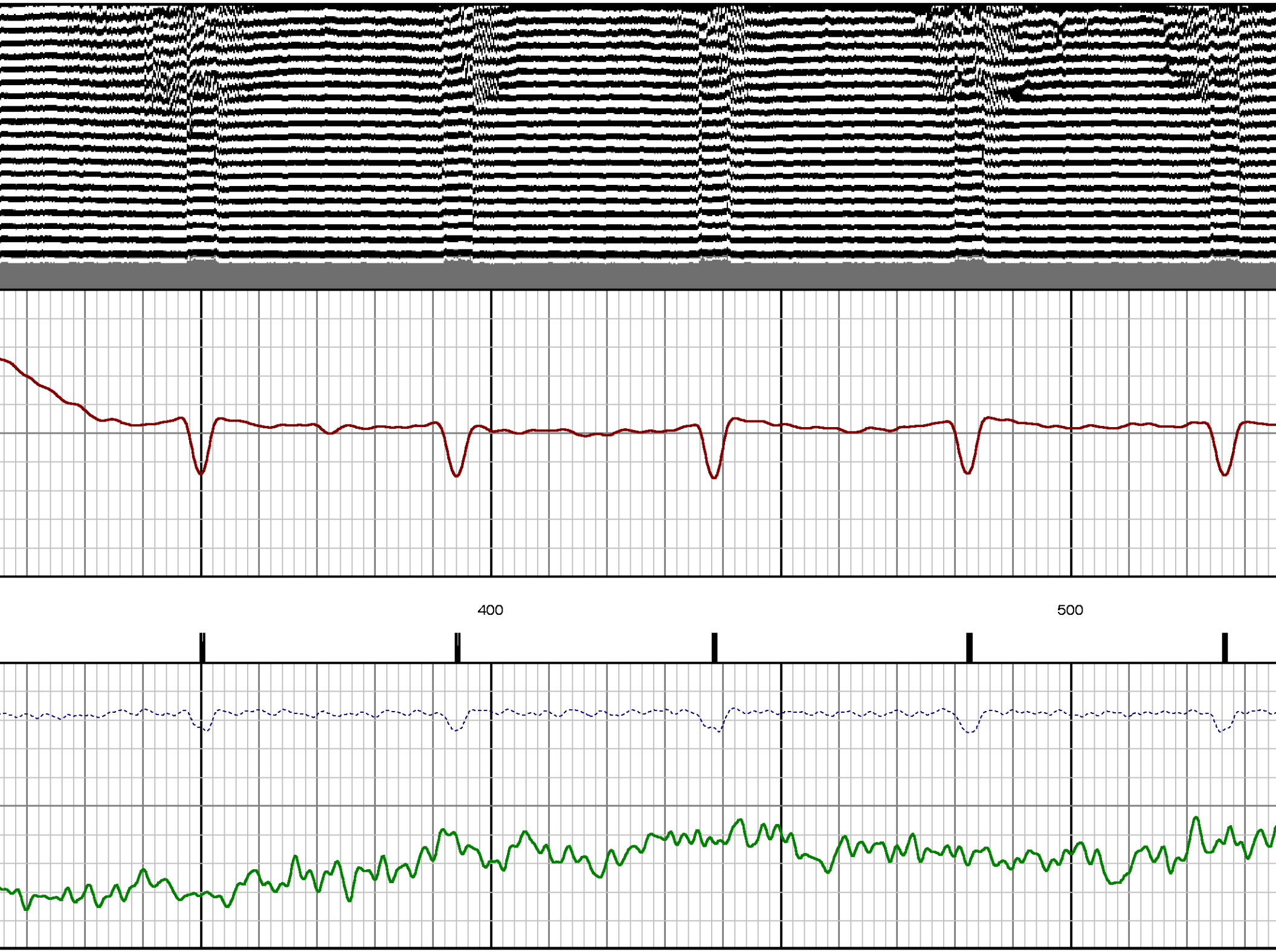
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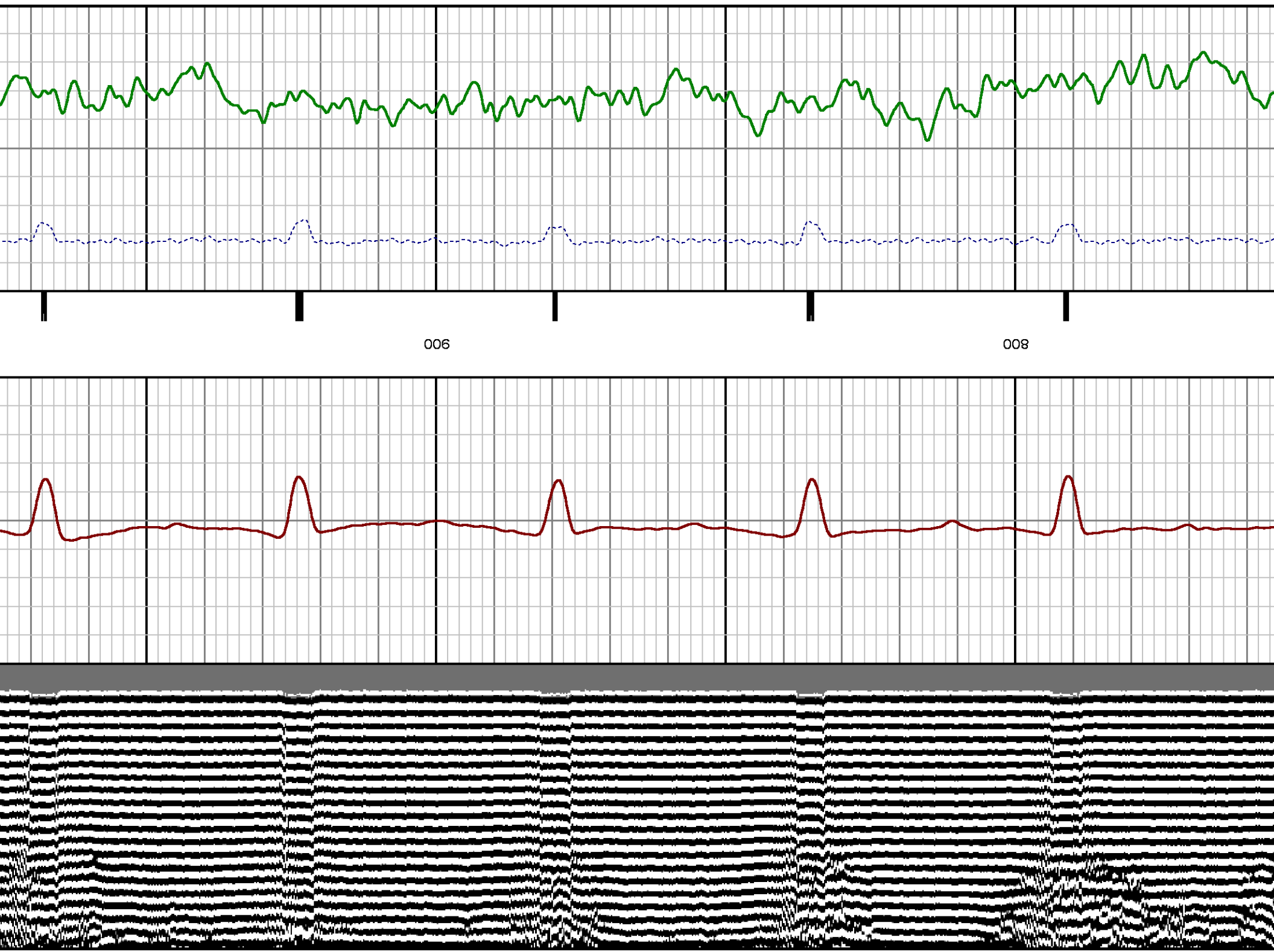
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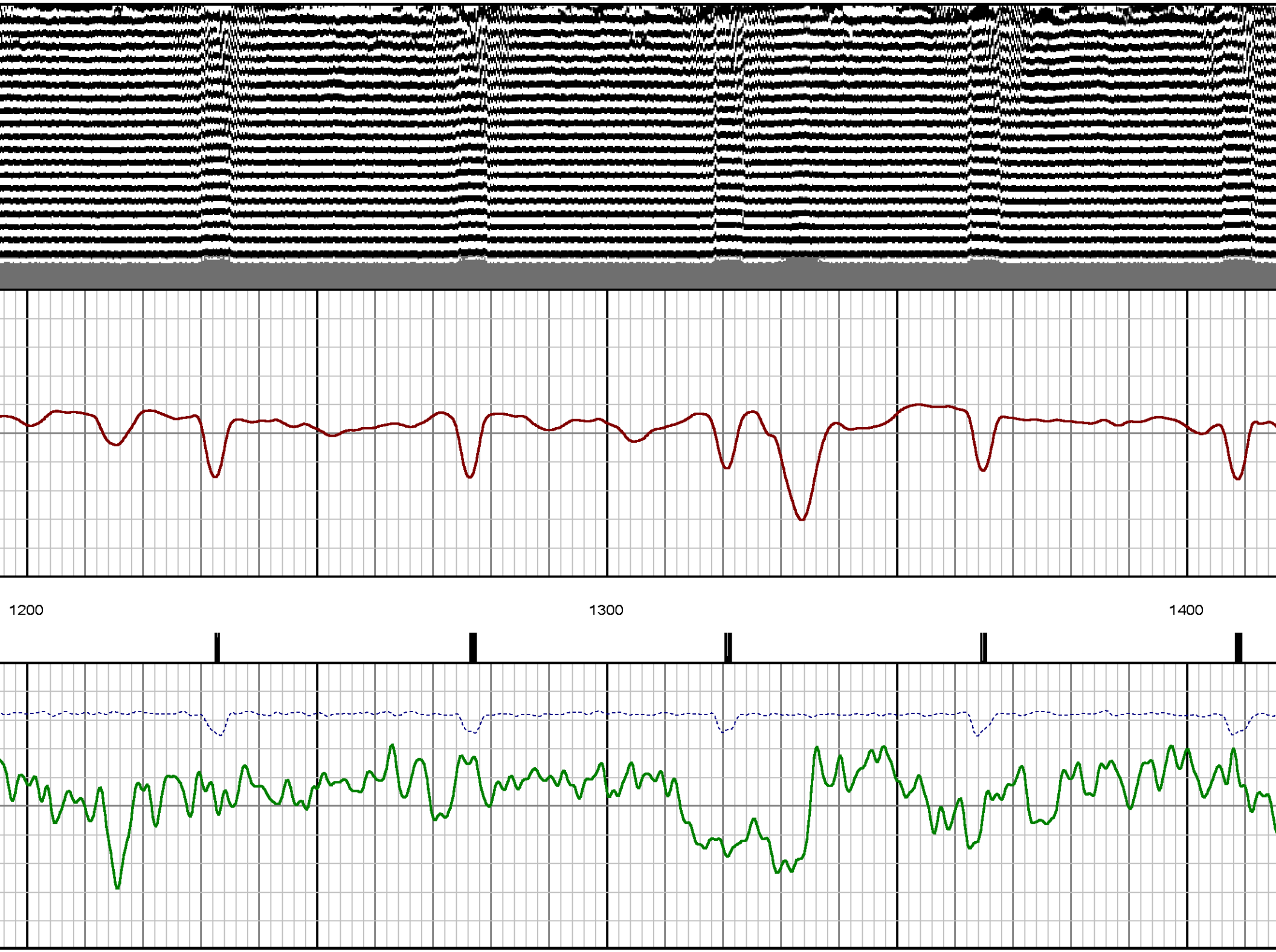
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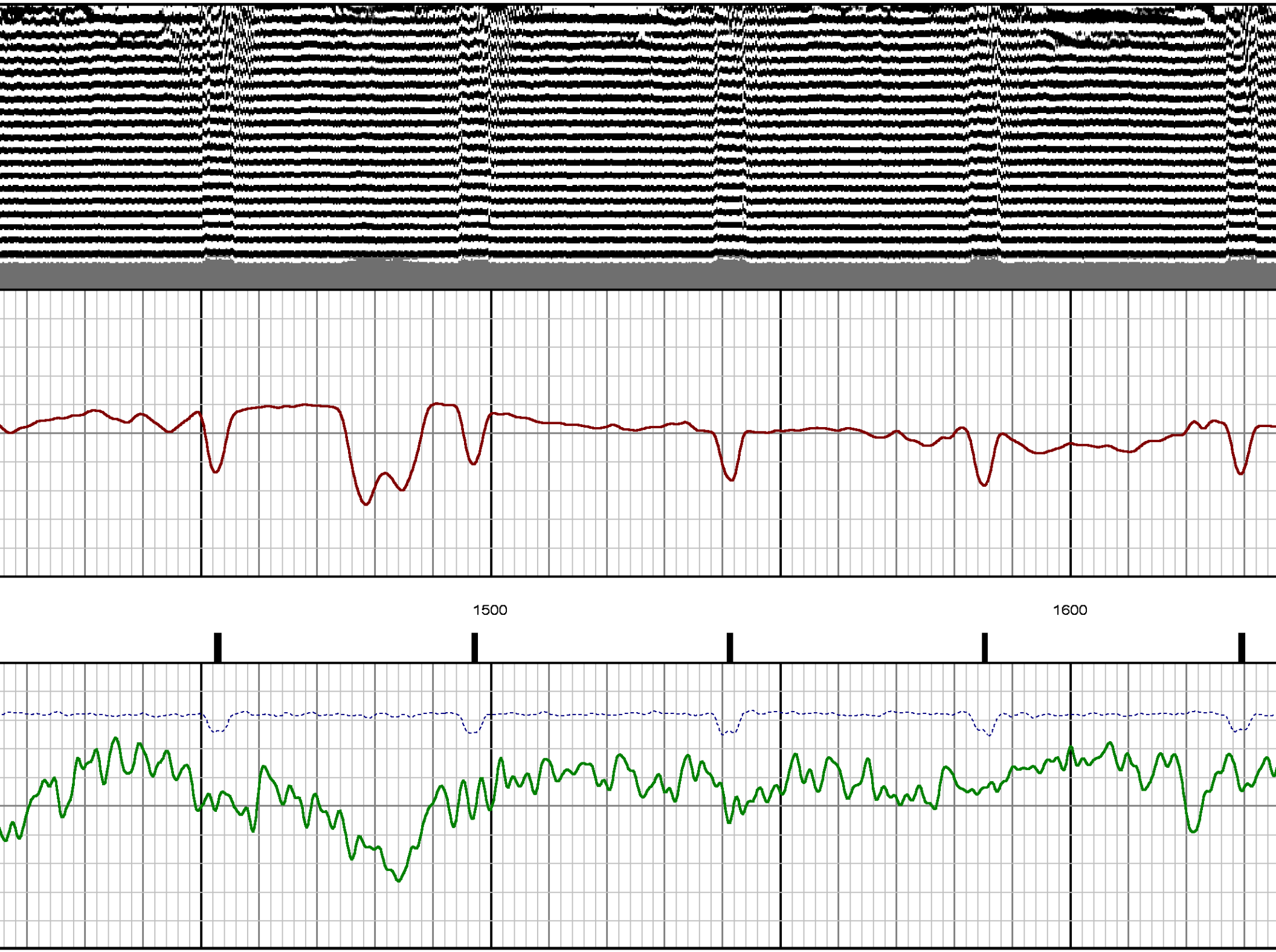
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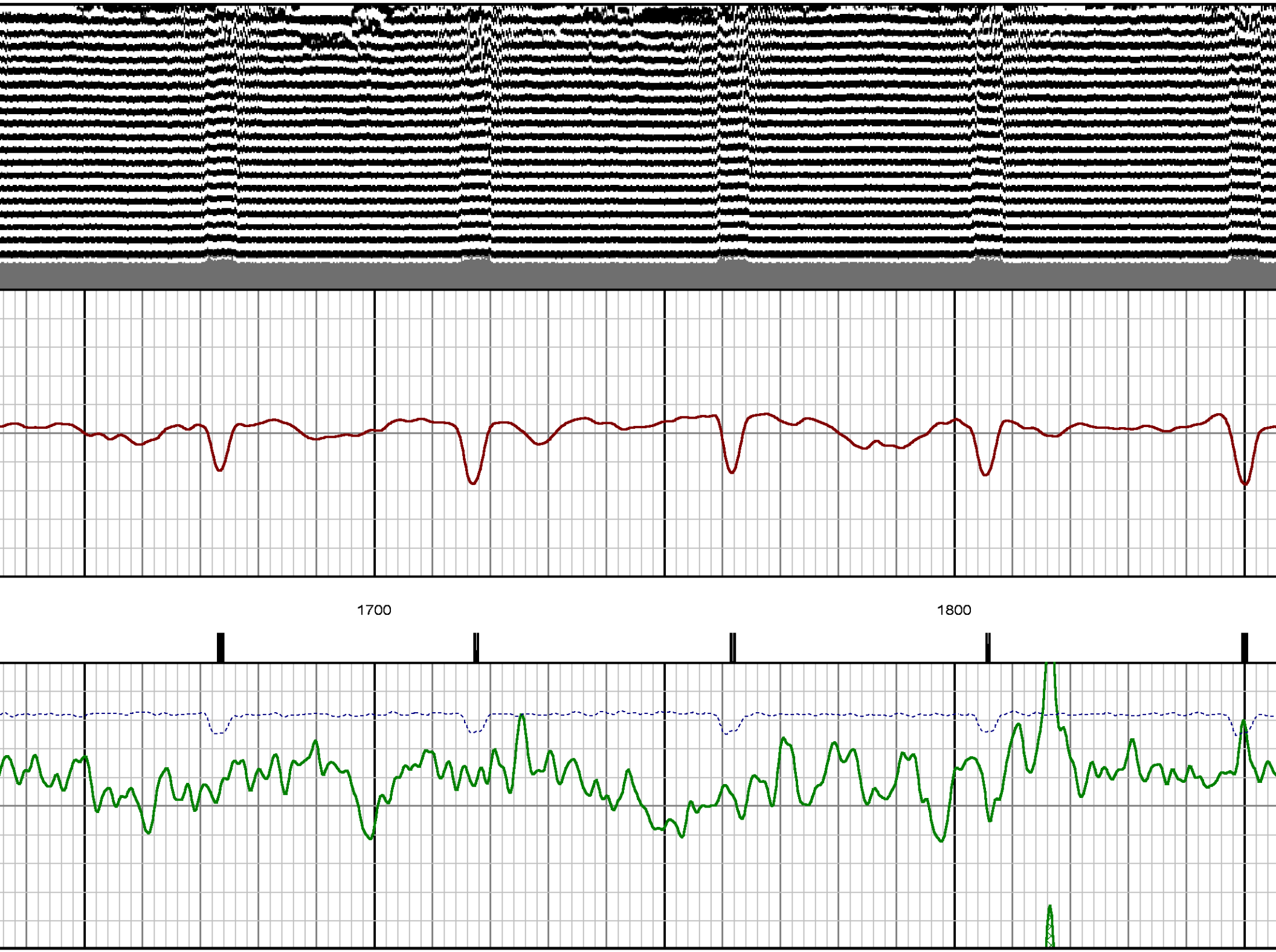
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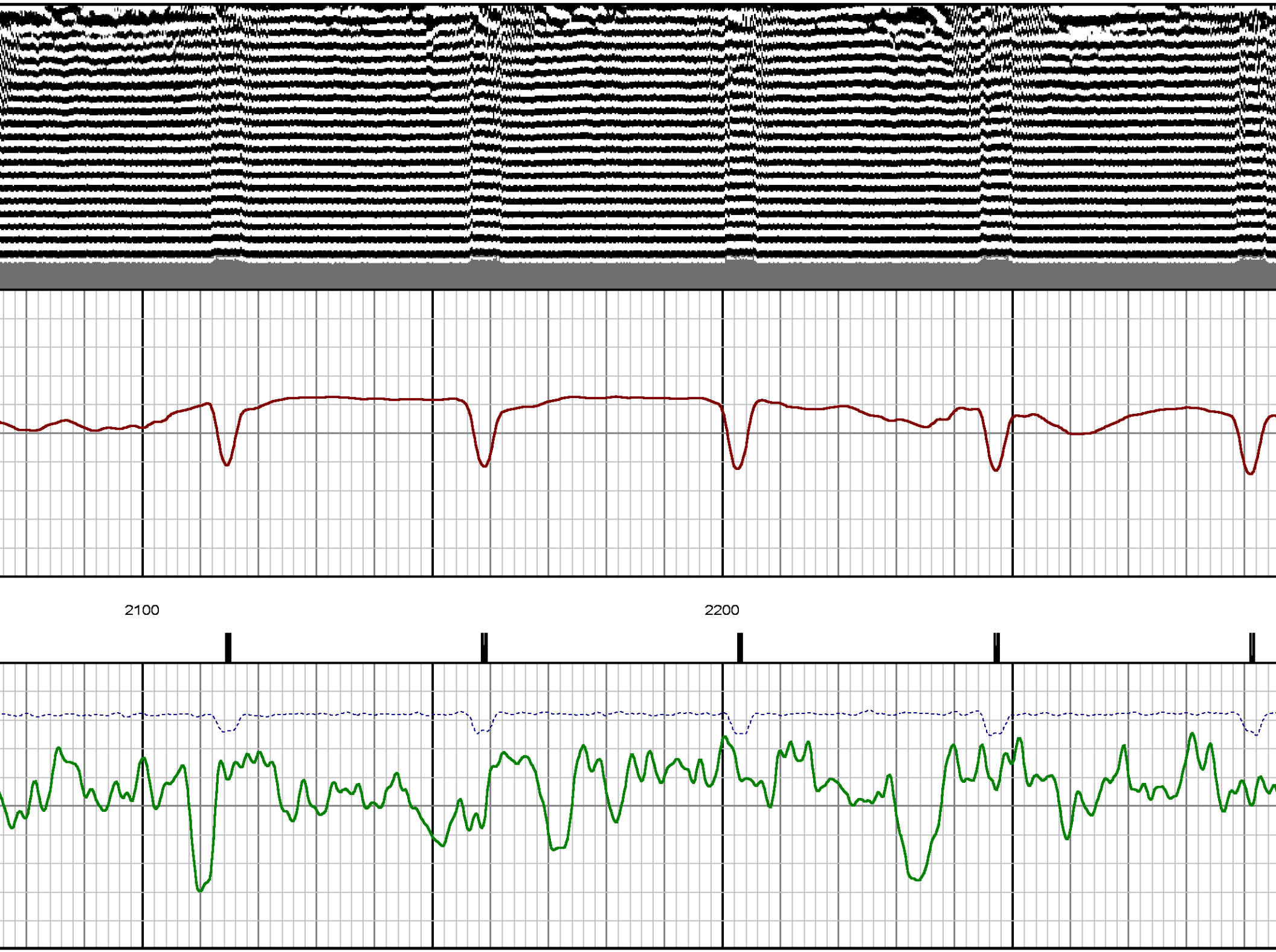
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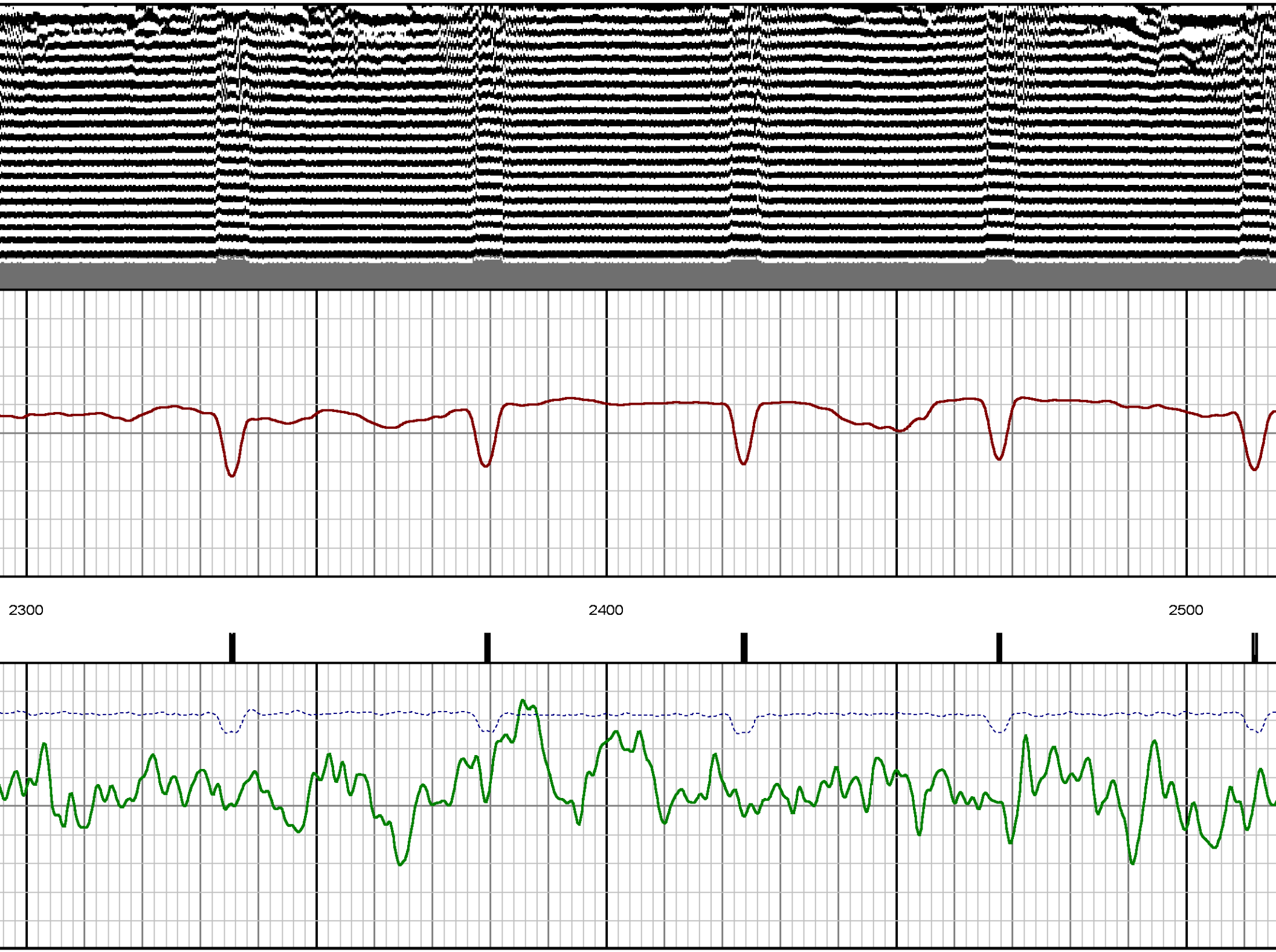
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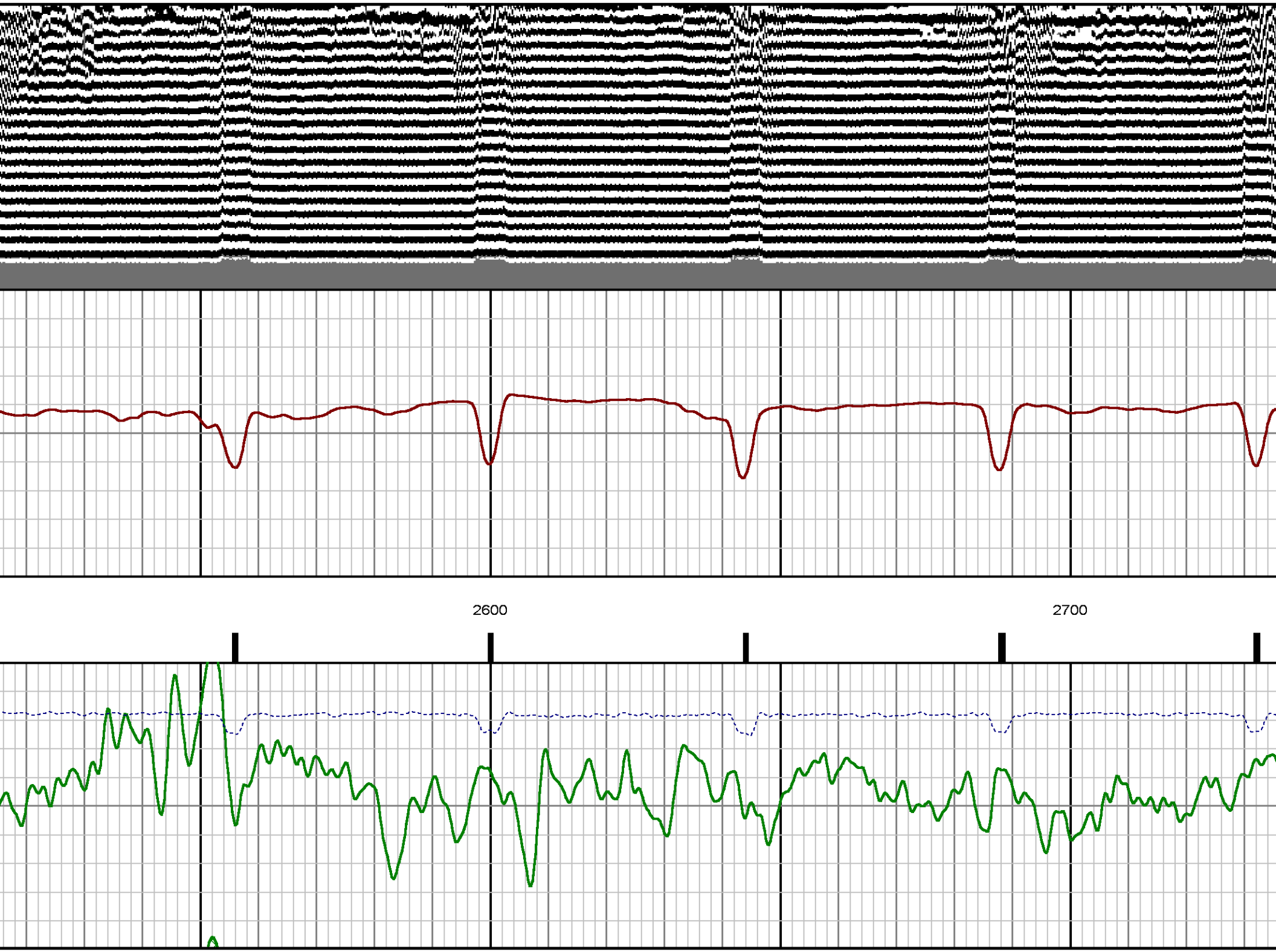
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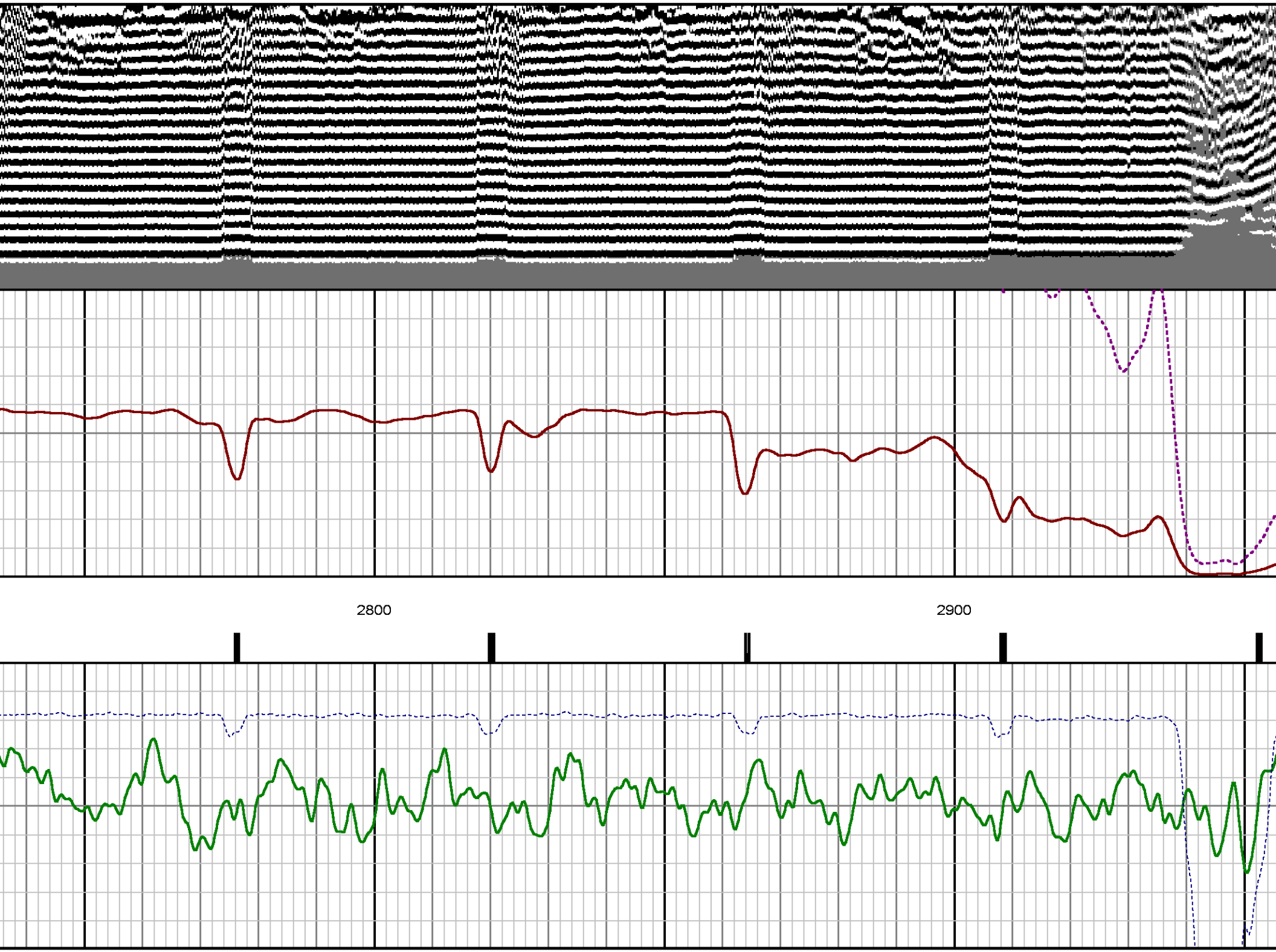
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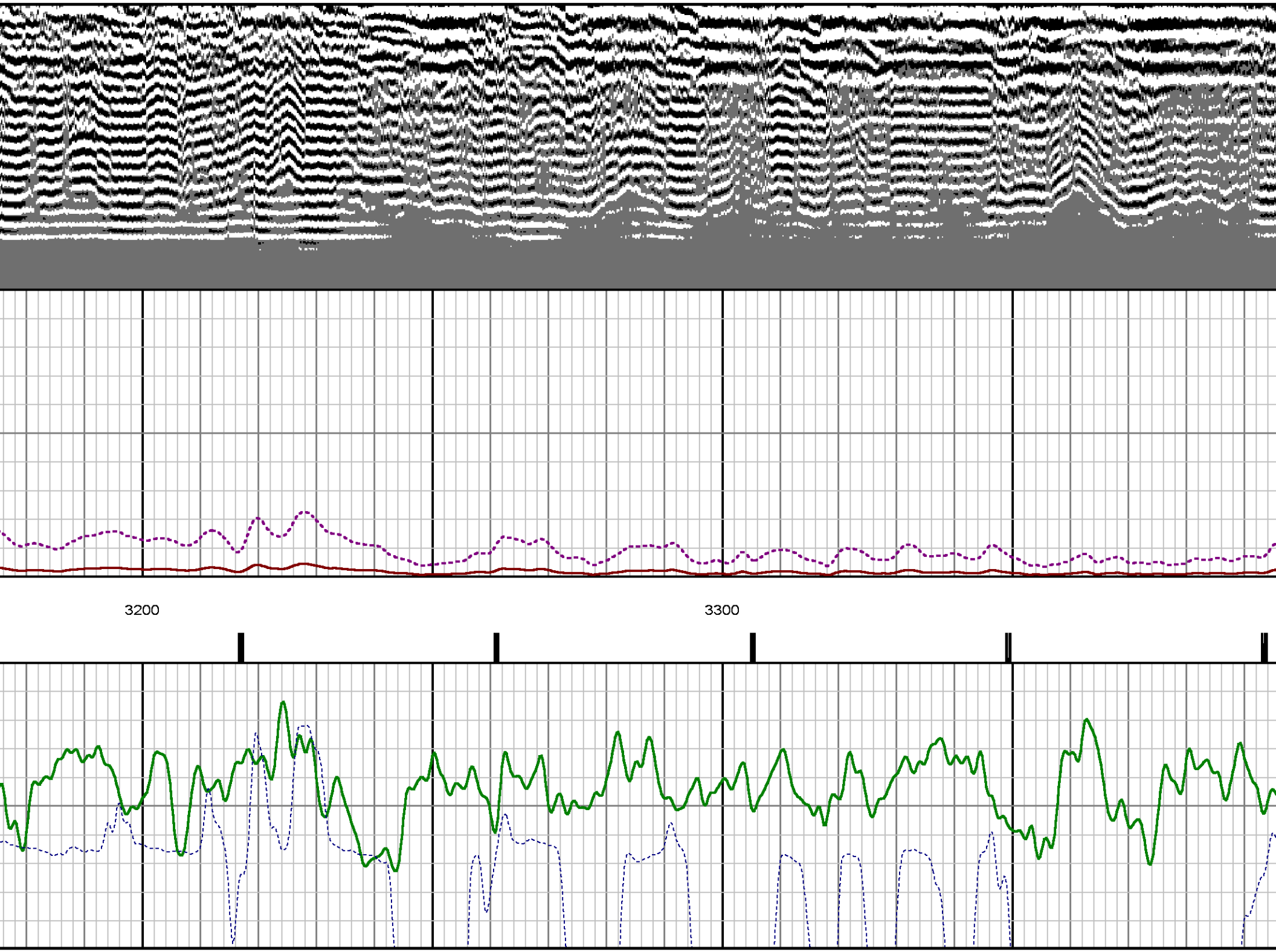
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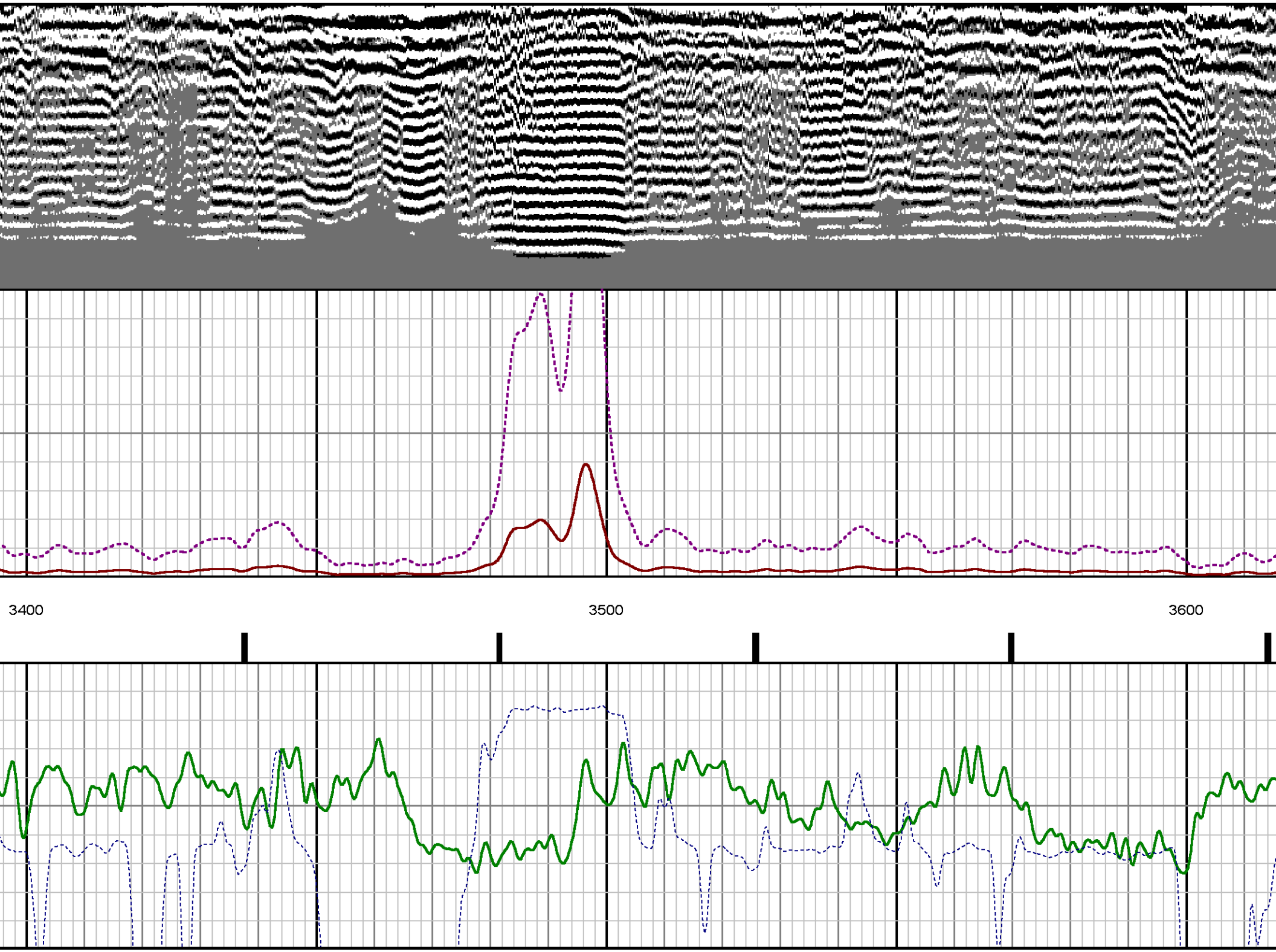
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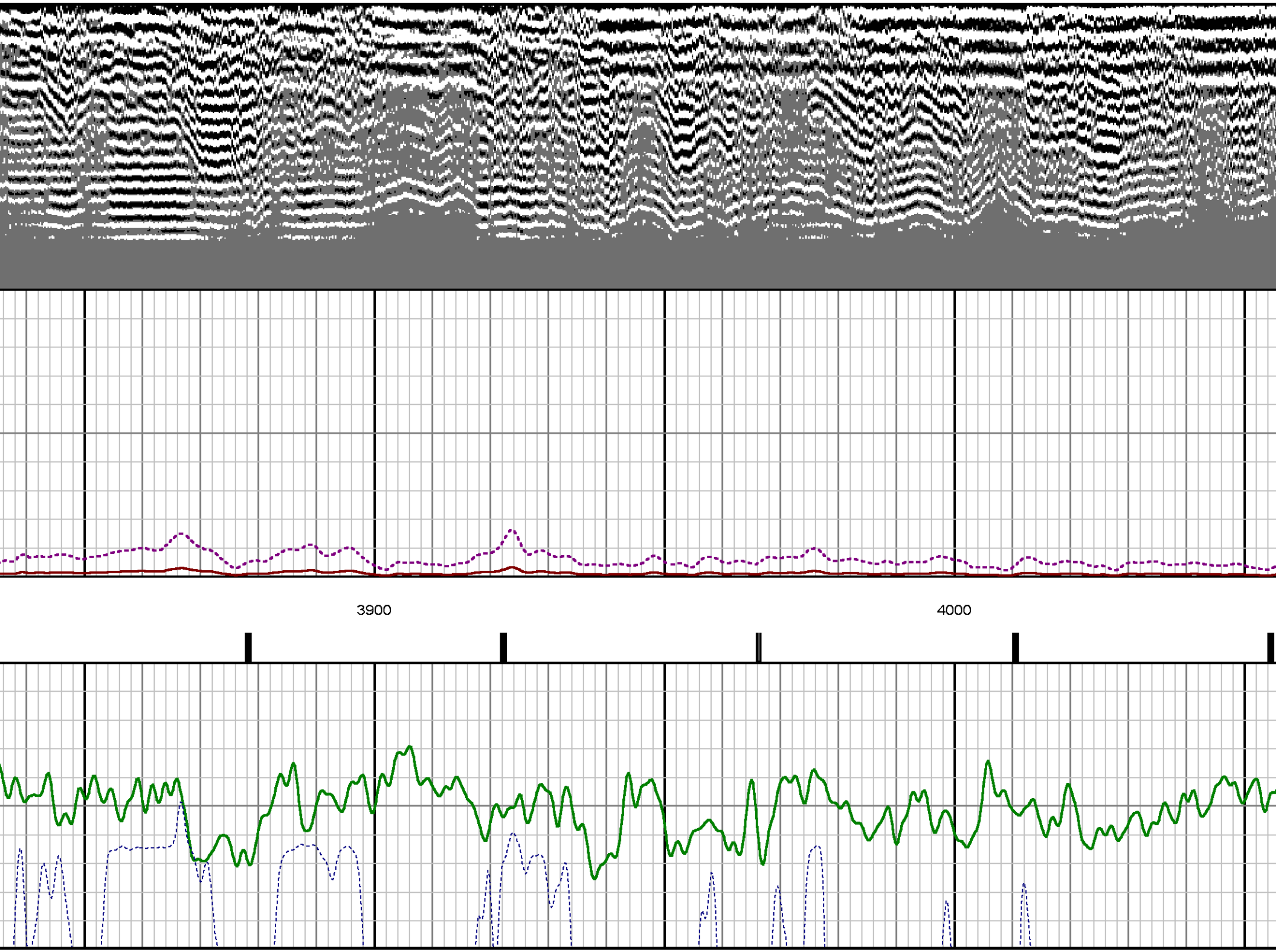
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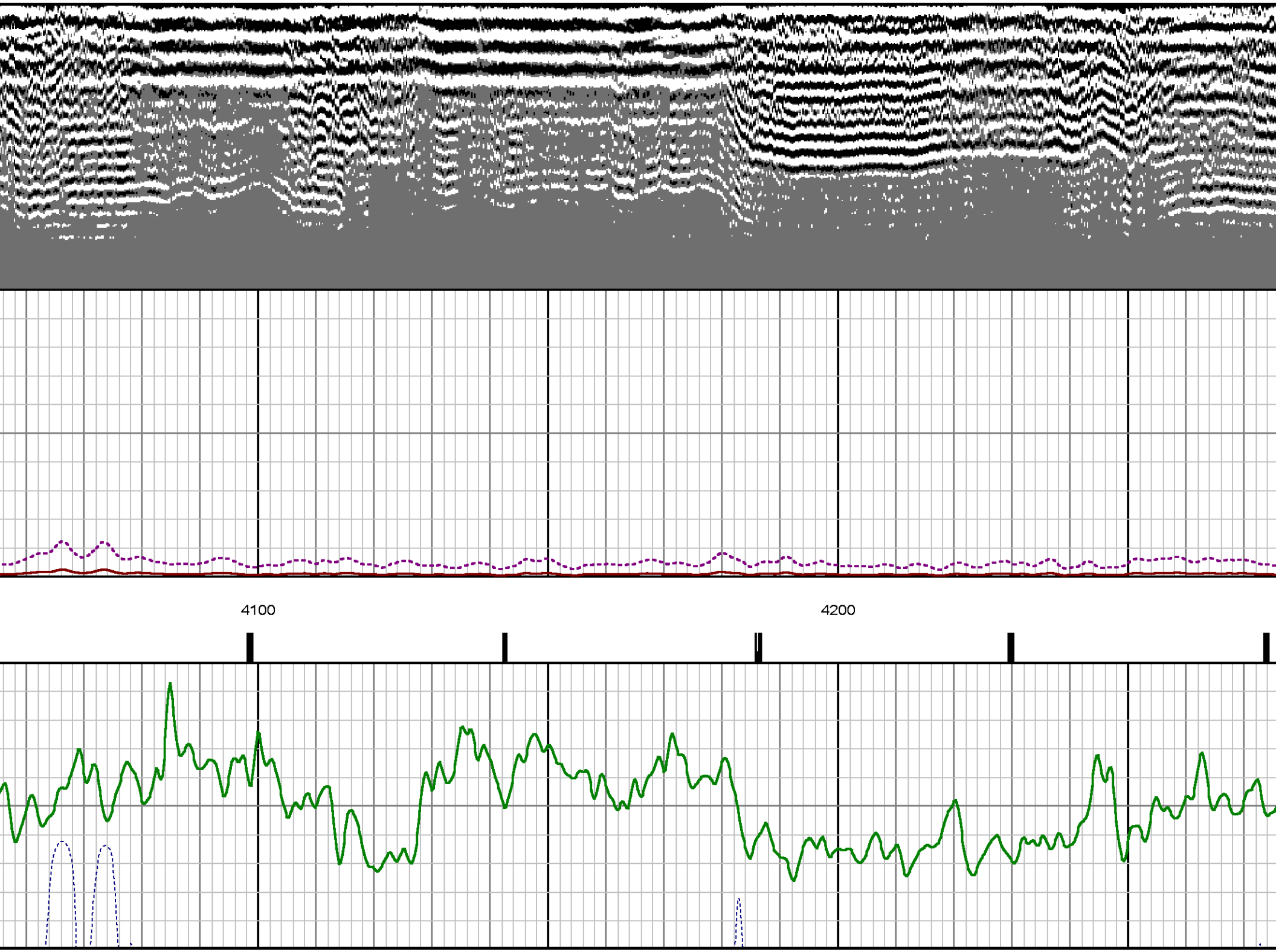
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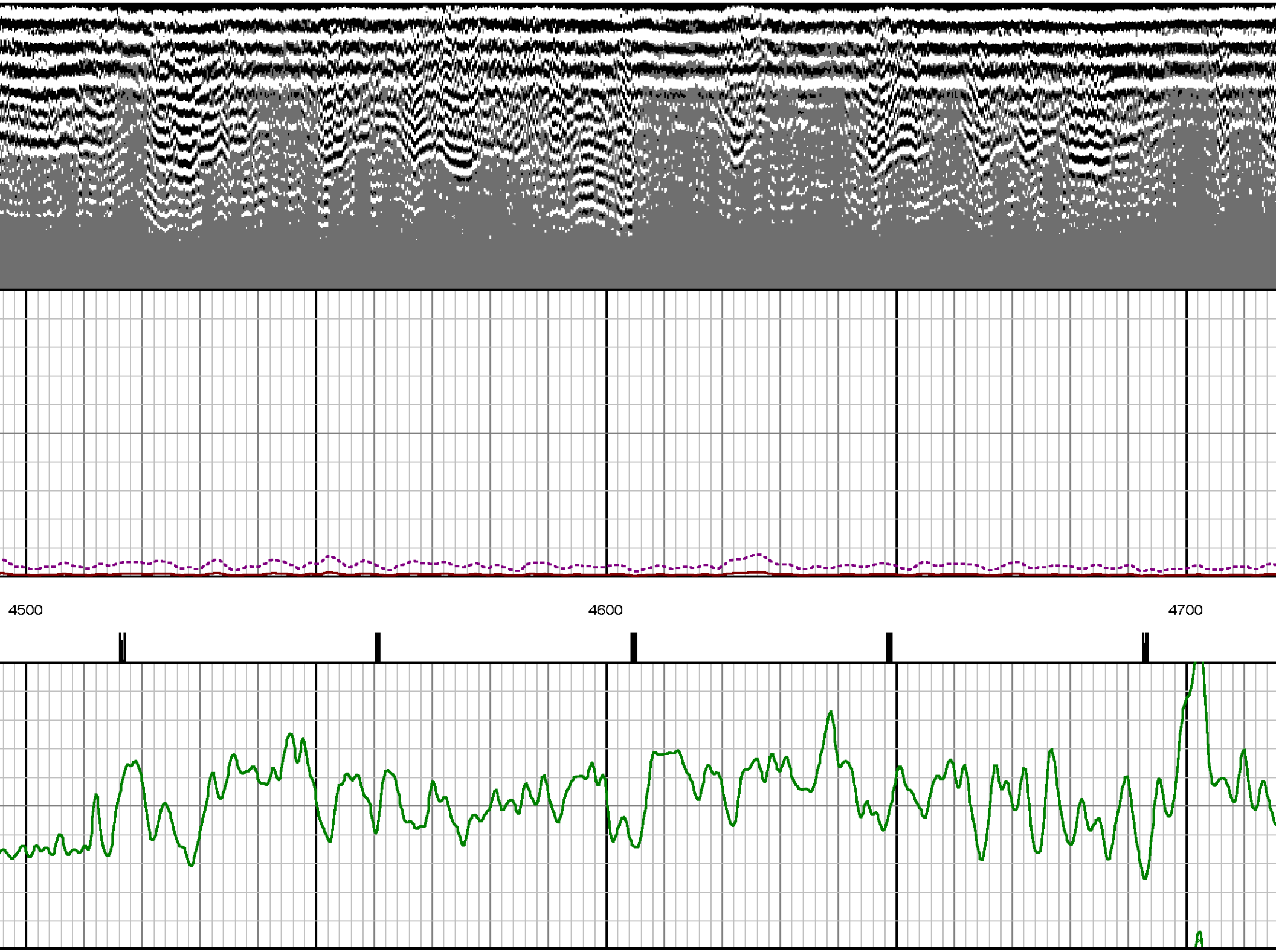
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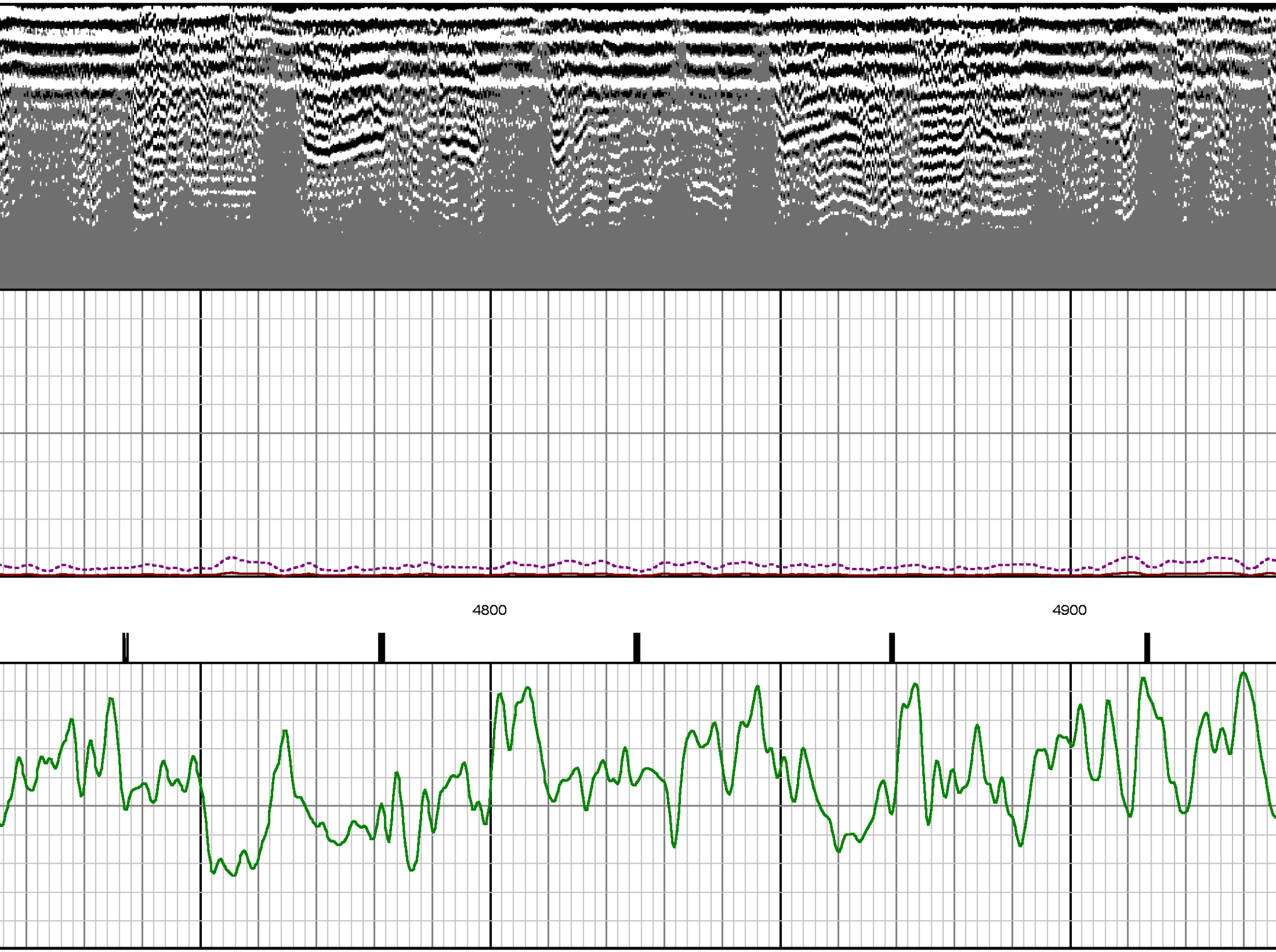
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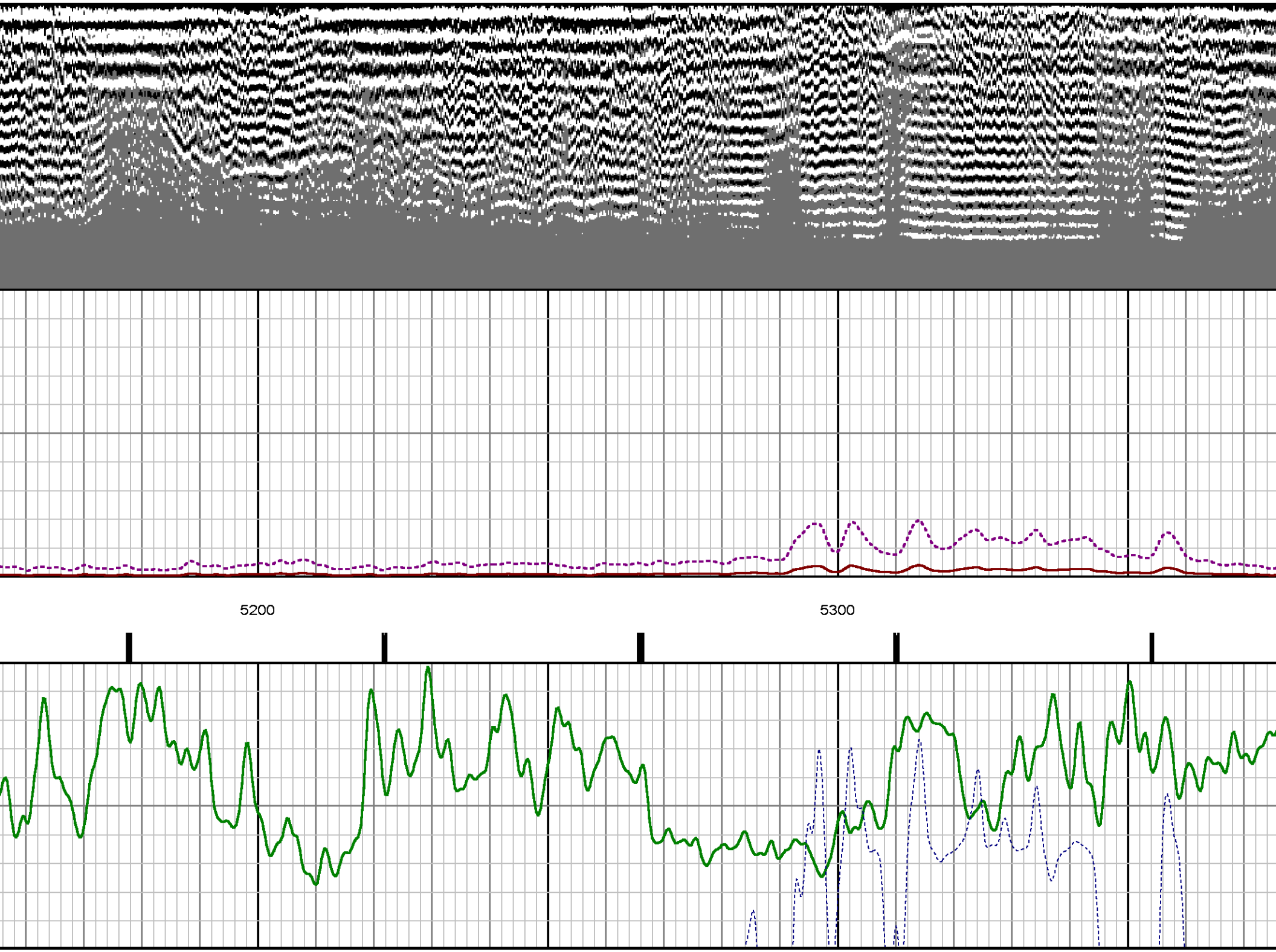
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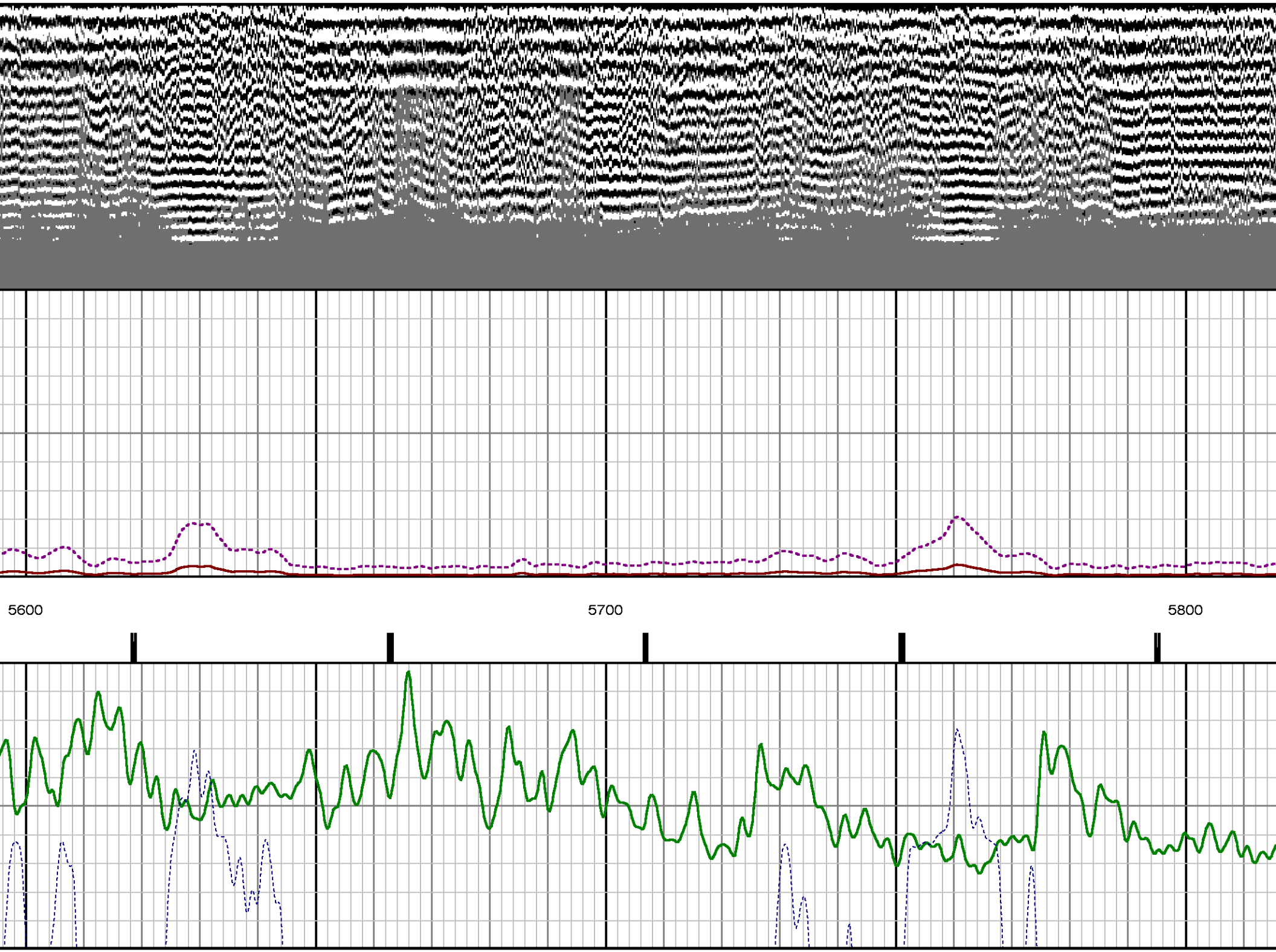
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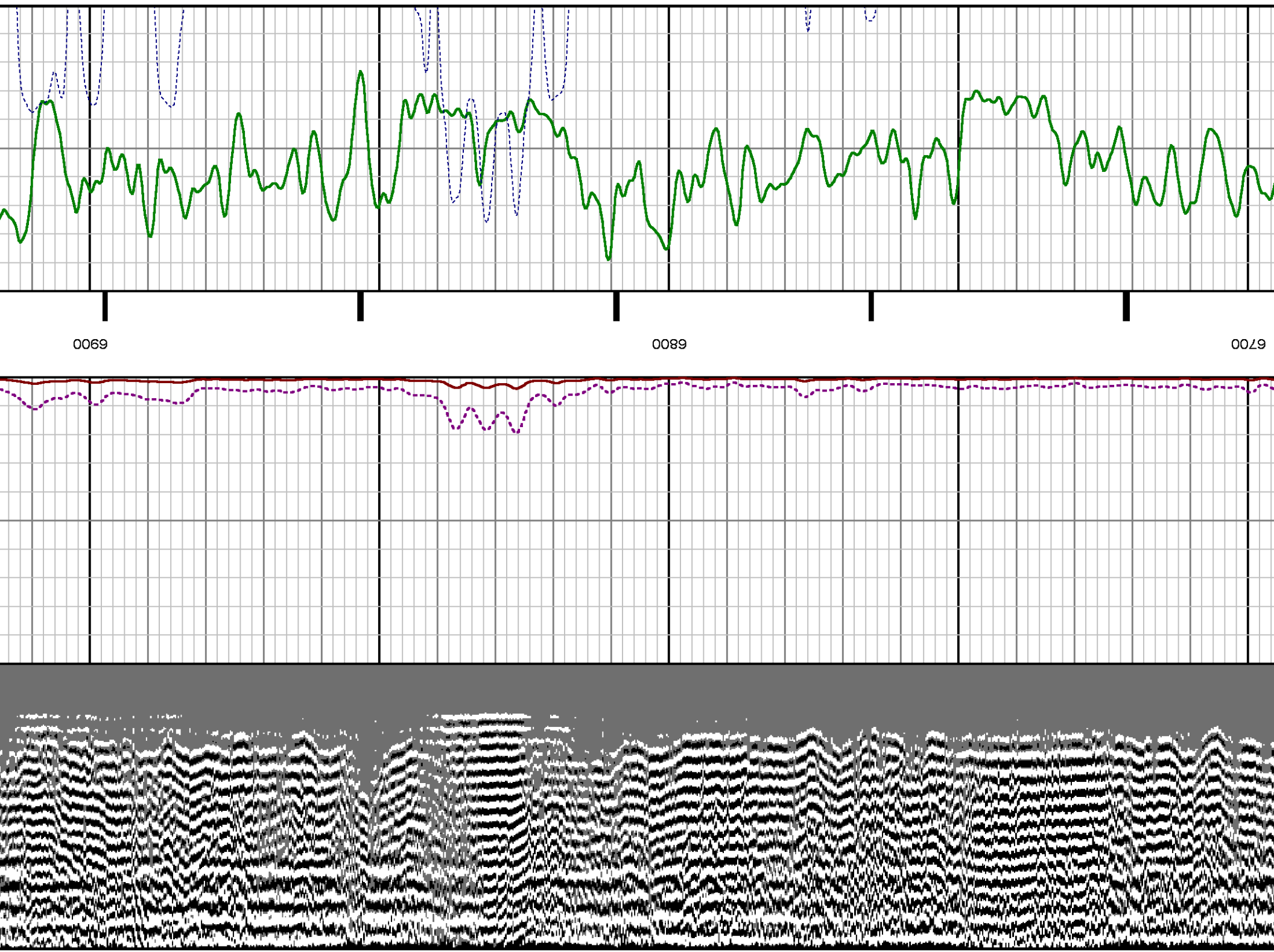
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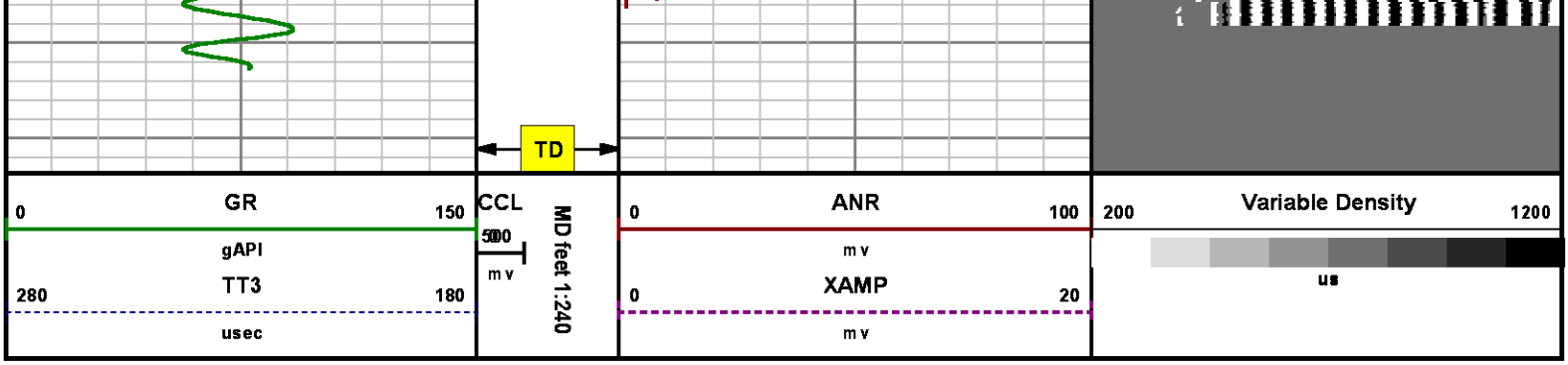

SECONDARY PRESENTATION
O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	34.718	7593.000
RAL	Amp Gate Start Near	195.000	usec	34.718	7593.000
RAL	Amp Gate Start Radial	195.000	usec	34.718	7593.000
RAL	Amp Gate Width Far	25.000	usec	34.718	7593.000
RAL	Amp Gate Width Near	25.000	usec	34.718	7593.000
RAL	Amp Gate Width Radial	25.000	usec	34.718	7593.000
RAL	casing od	4.500	inches	34.718	7593.000
RAL	casing wt	11.600	lbm/ft	34.718	7593.000
RAL	FB Start Far	291.900	usec	34.718	7593.000
RAL	FB Start Near	180.000	usec	34.718	7593.000
RAL	FB Start Radial	180.000	usec	34.718	7593.000
RAL	FB Thresh Far	10.000	mv	34.718	7593.000
RAL	FB Thresh Near	4.000	mv	34.718	7593.000
RAL	FB Thresh Radial	4.000	mv	34.718	7593.000
RAL	Fluid Travel Time	200.000	usec/ft	34.718	7593.812

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FBR2

		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 313-2

File Name : d:\welldata\wpx\pa 313-2\312ral\main.xtf

Mode : PlotMgr 5.4.504

Interval : 0.00 - 7594.00 feet UP

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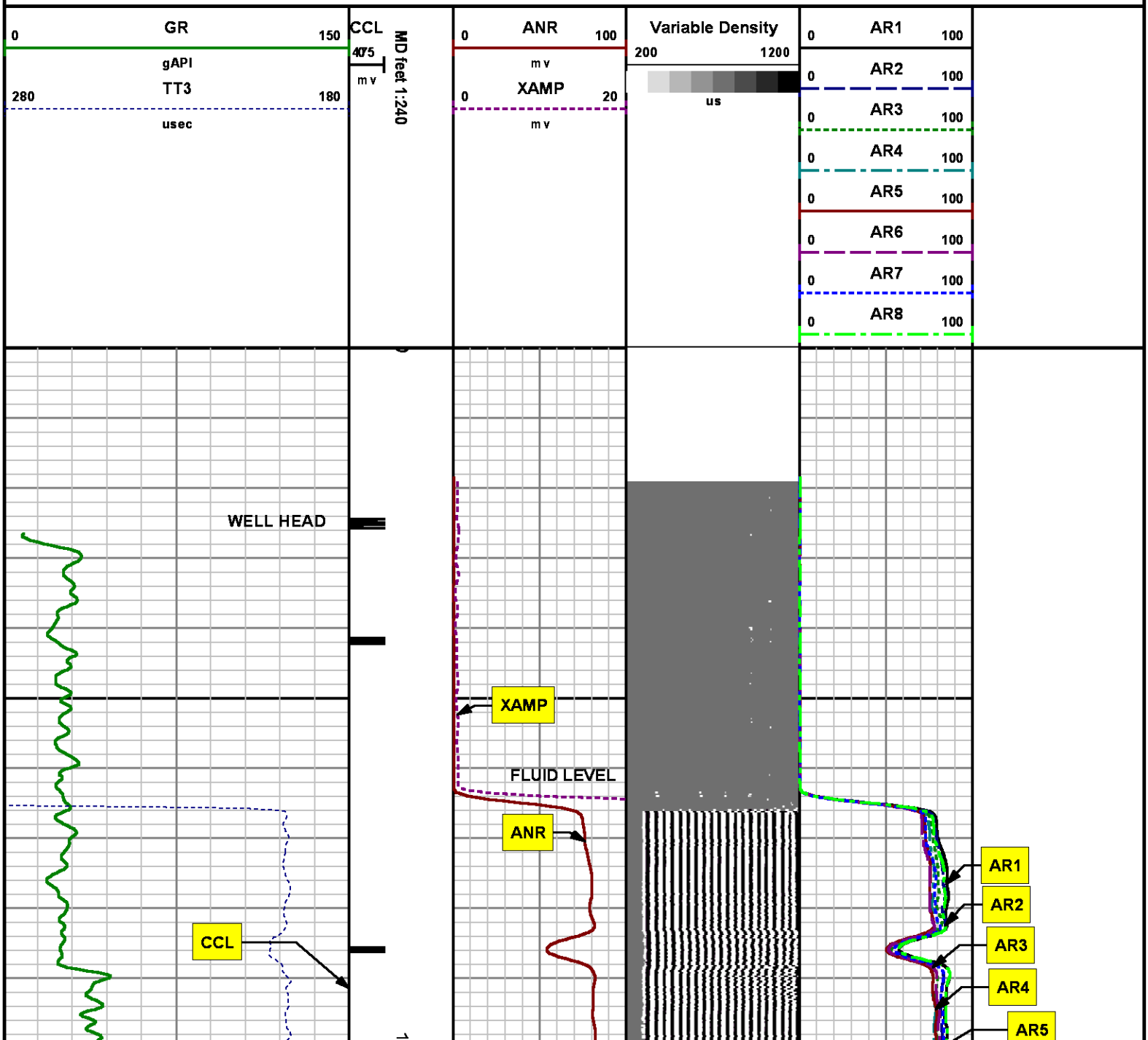

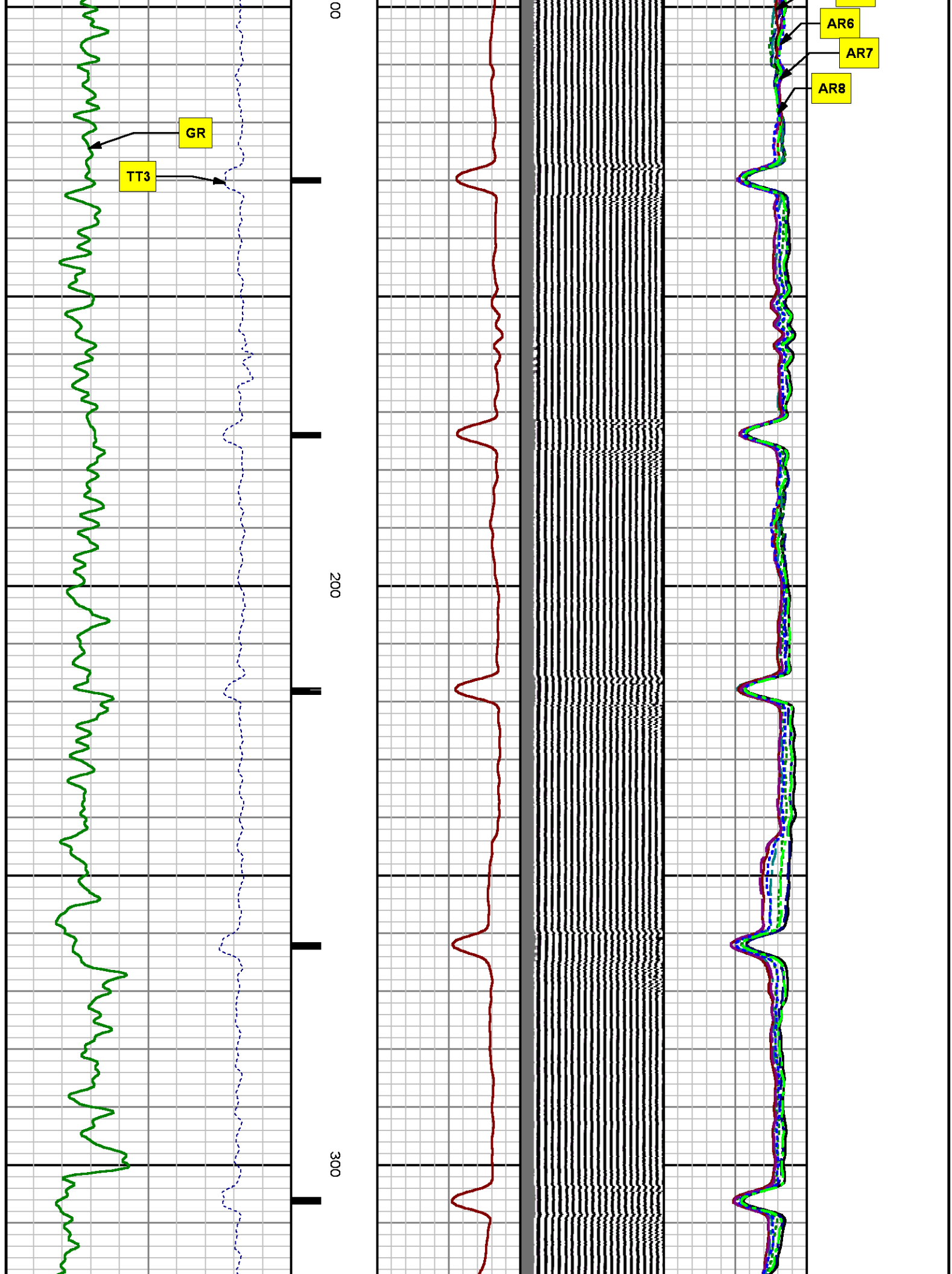
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AR7
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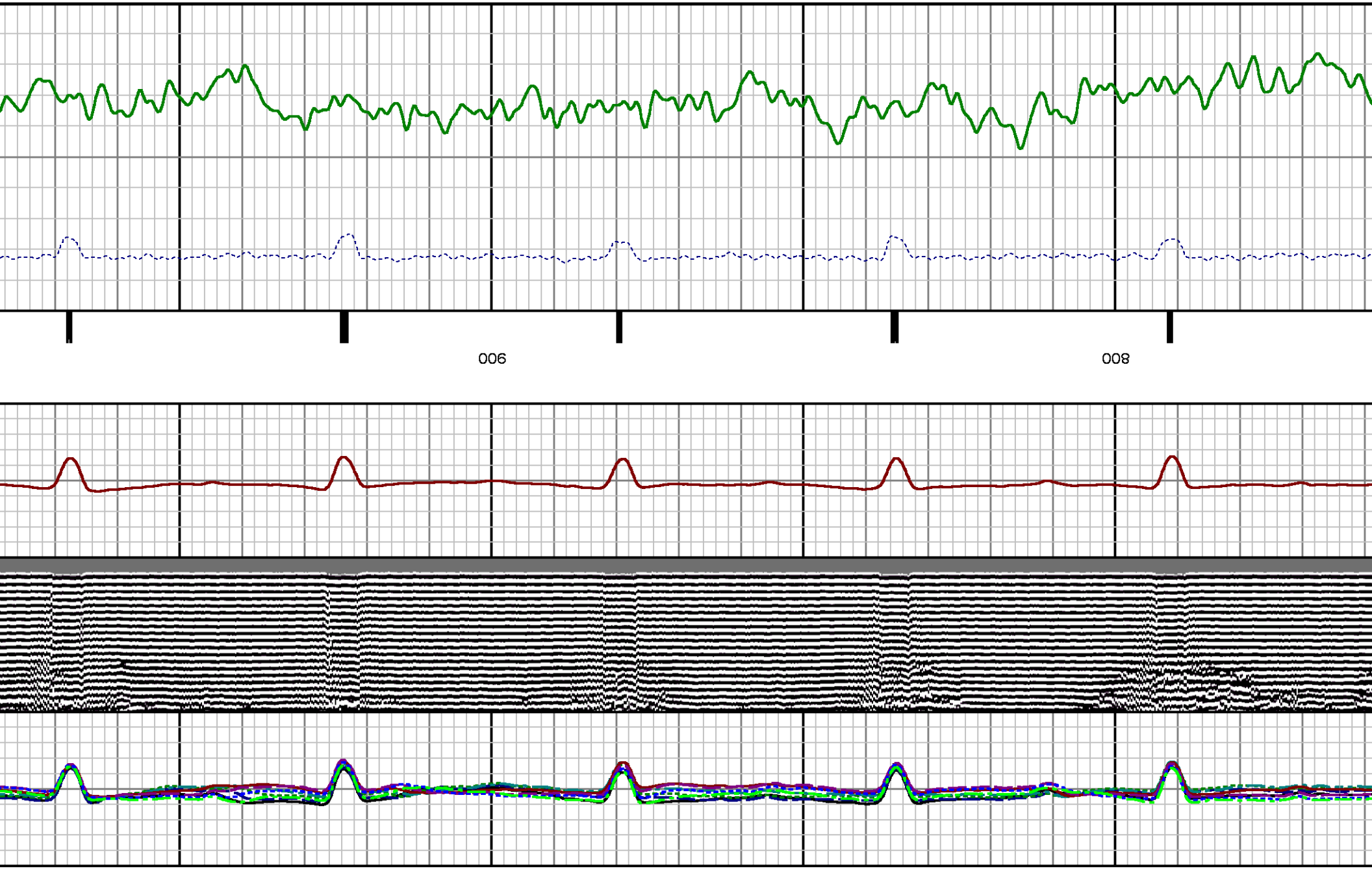
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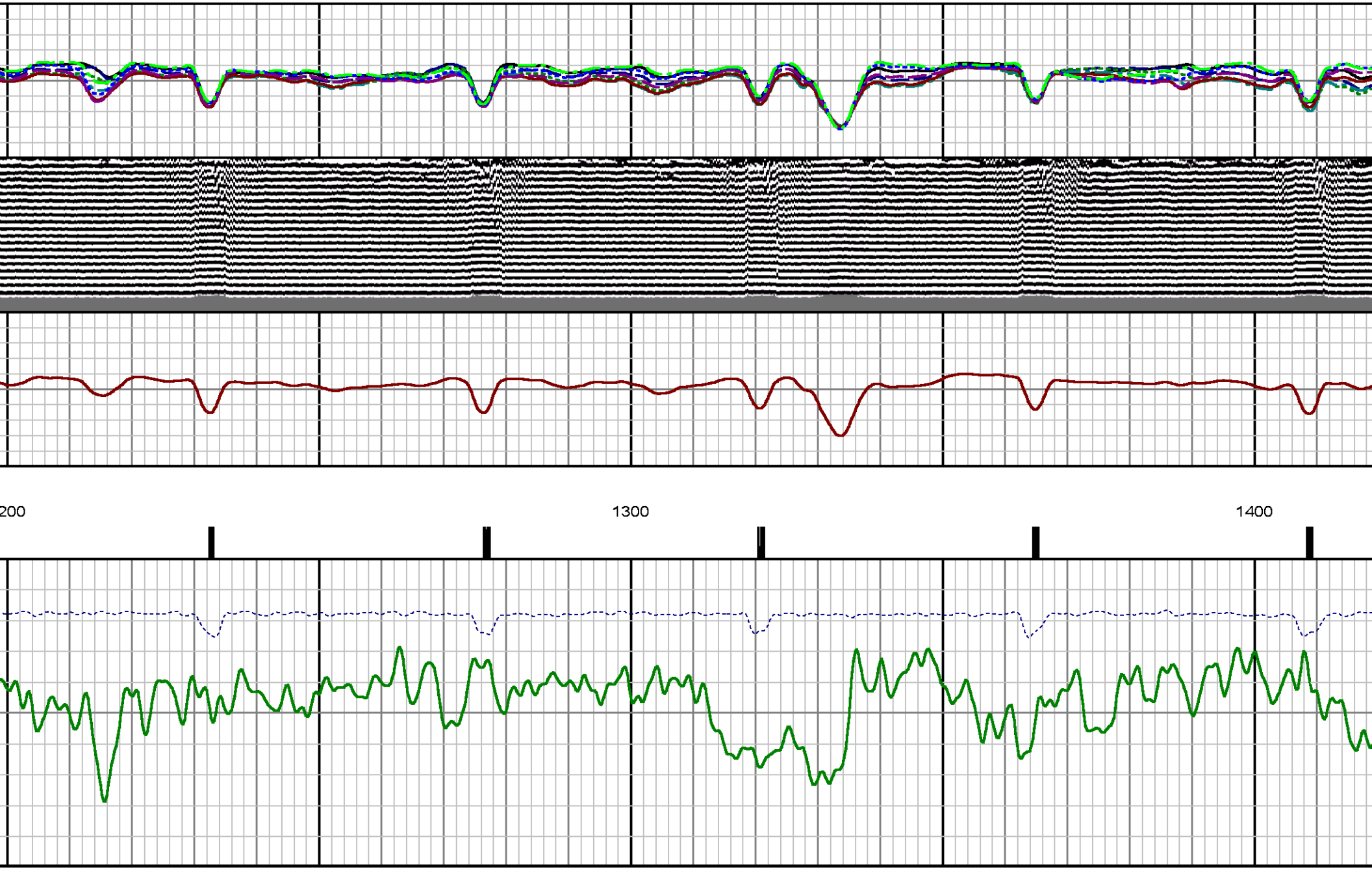
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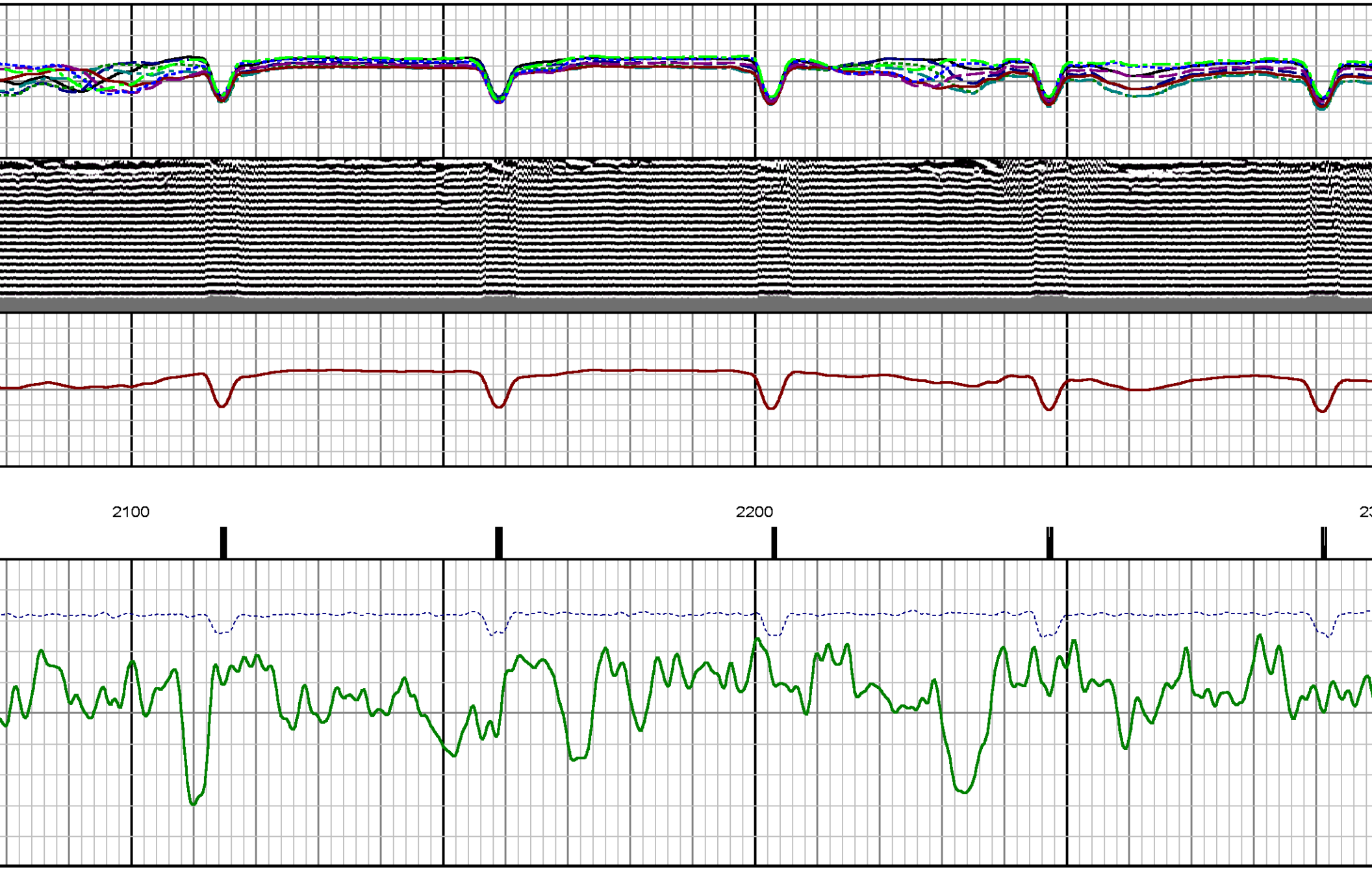
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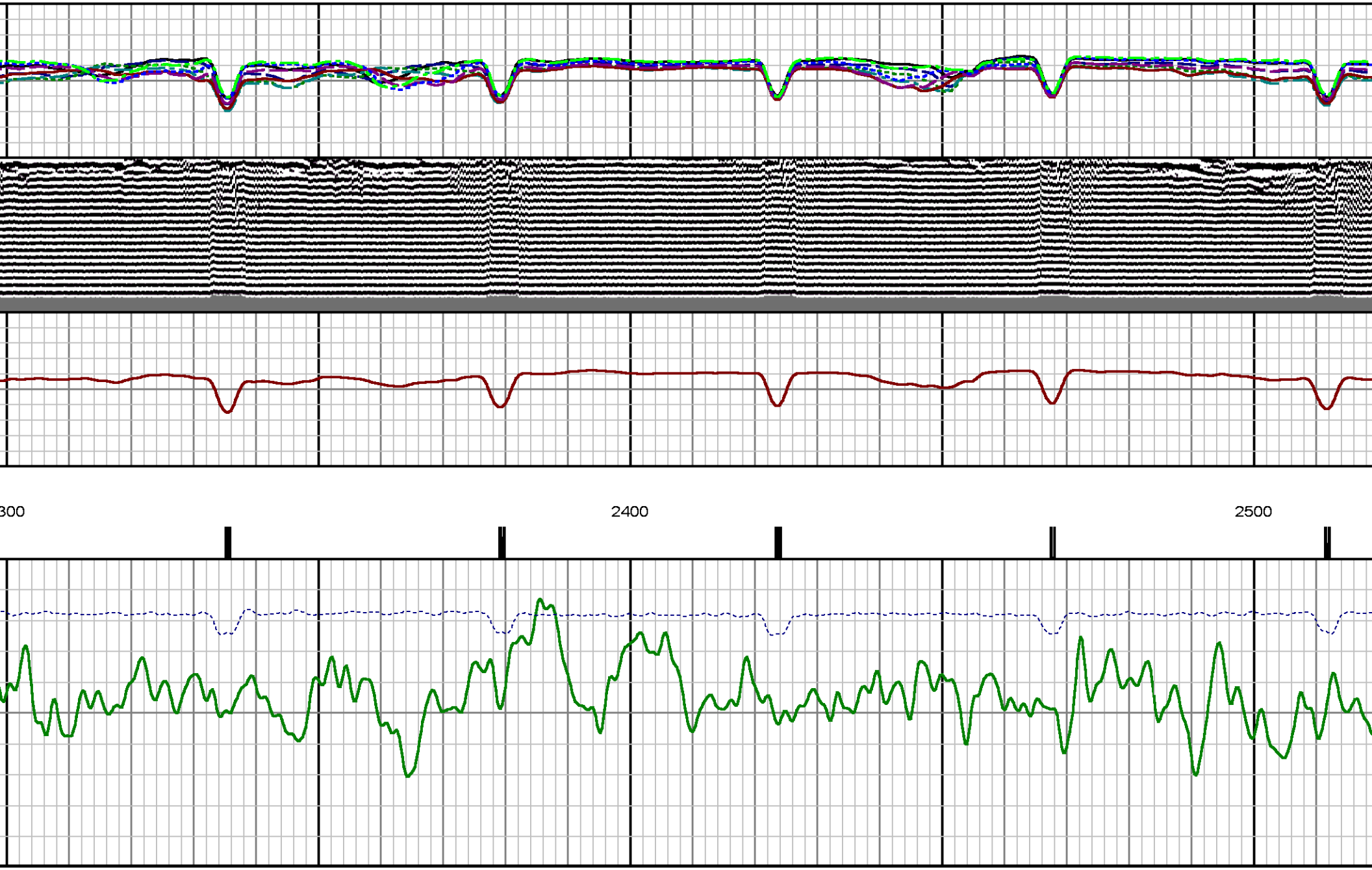
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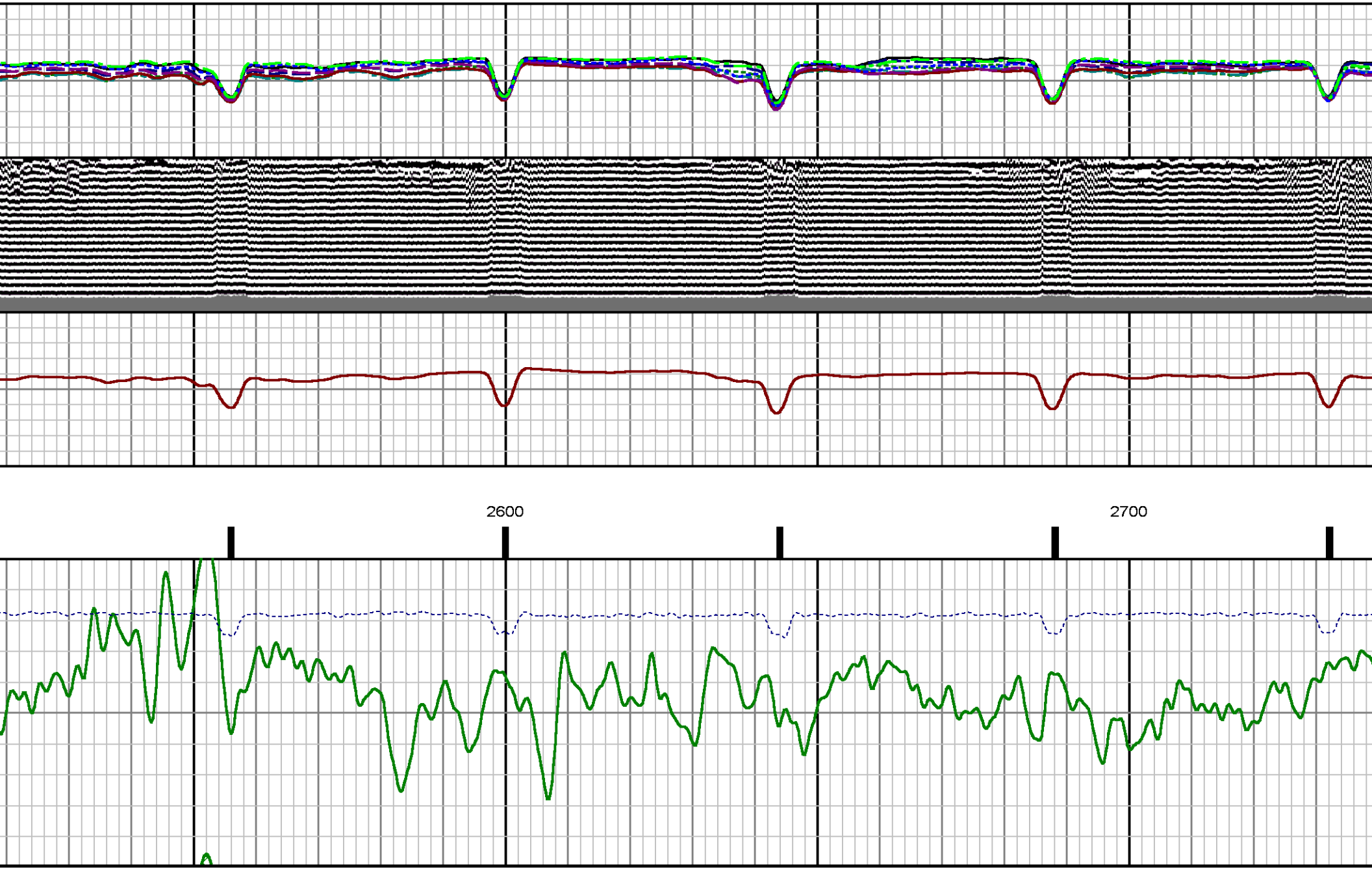
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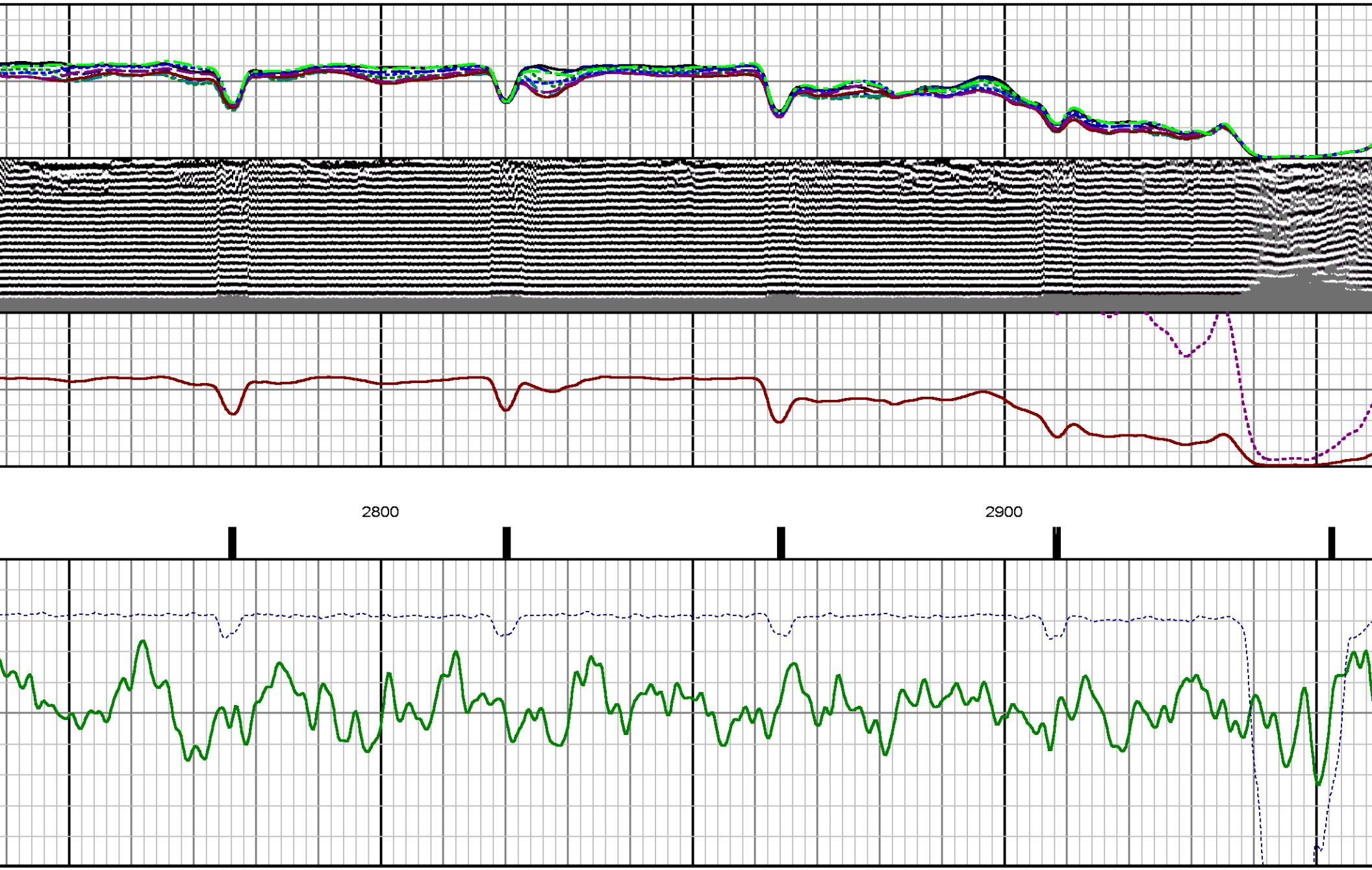
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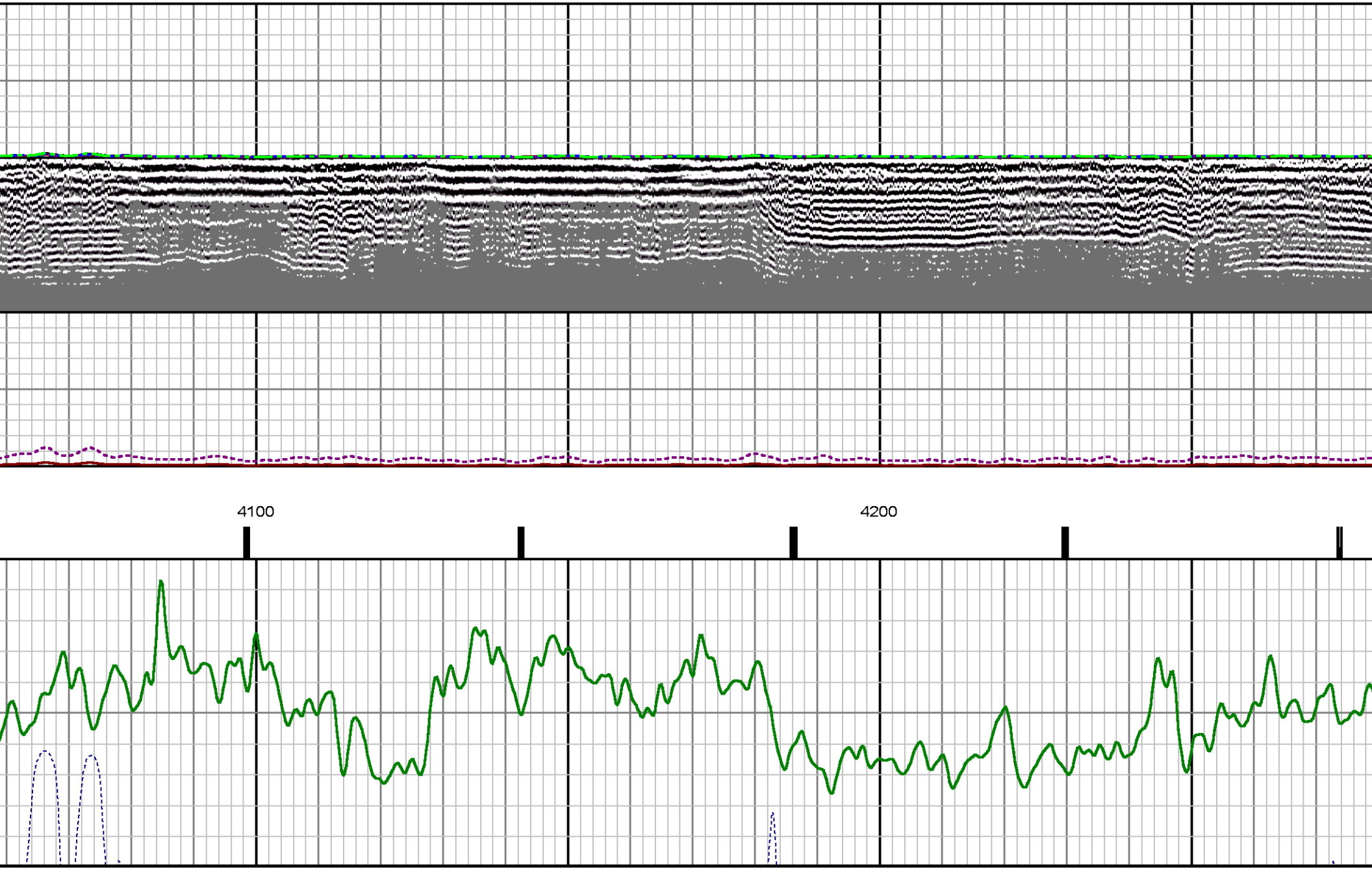
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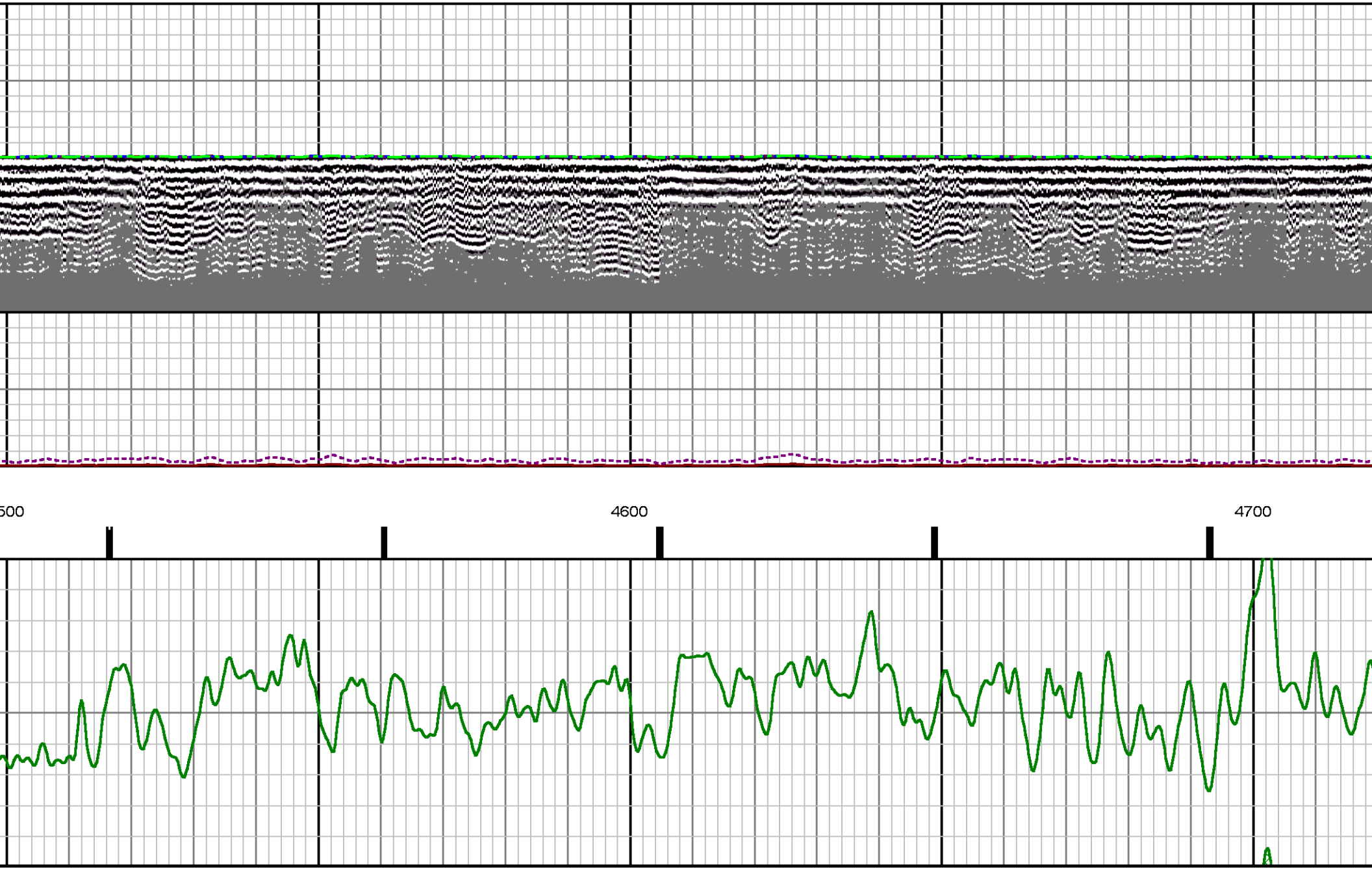
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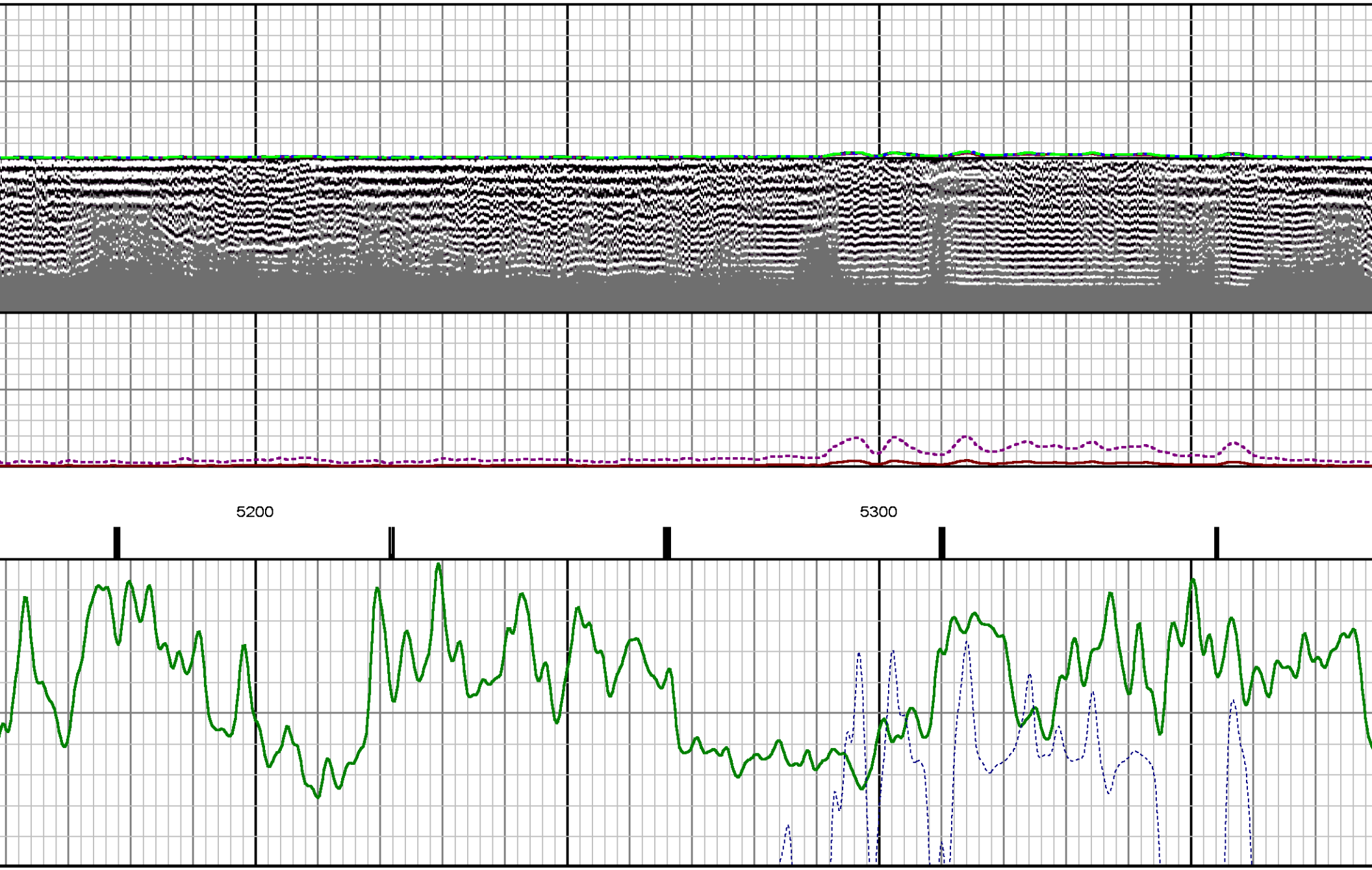
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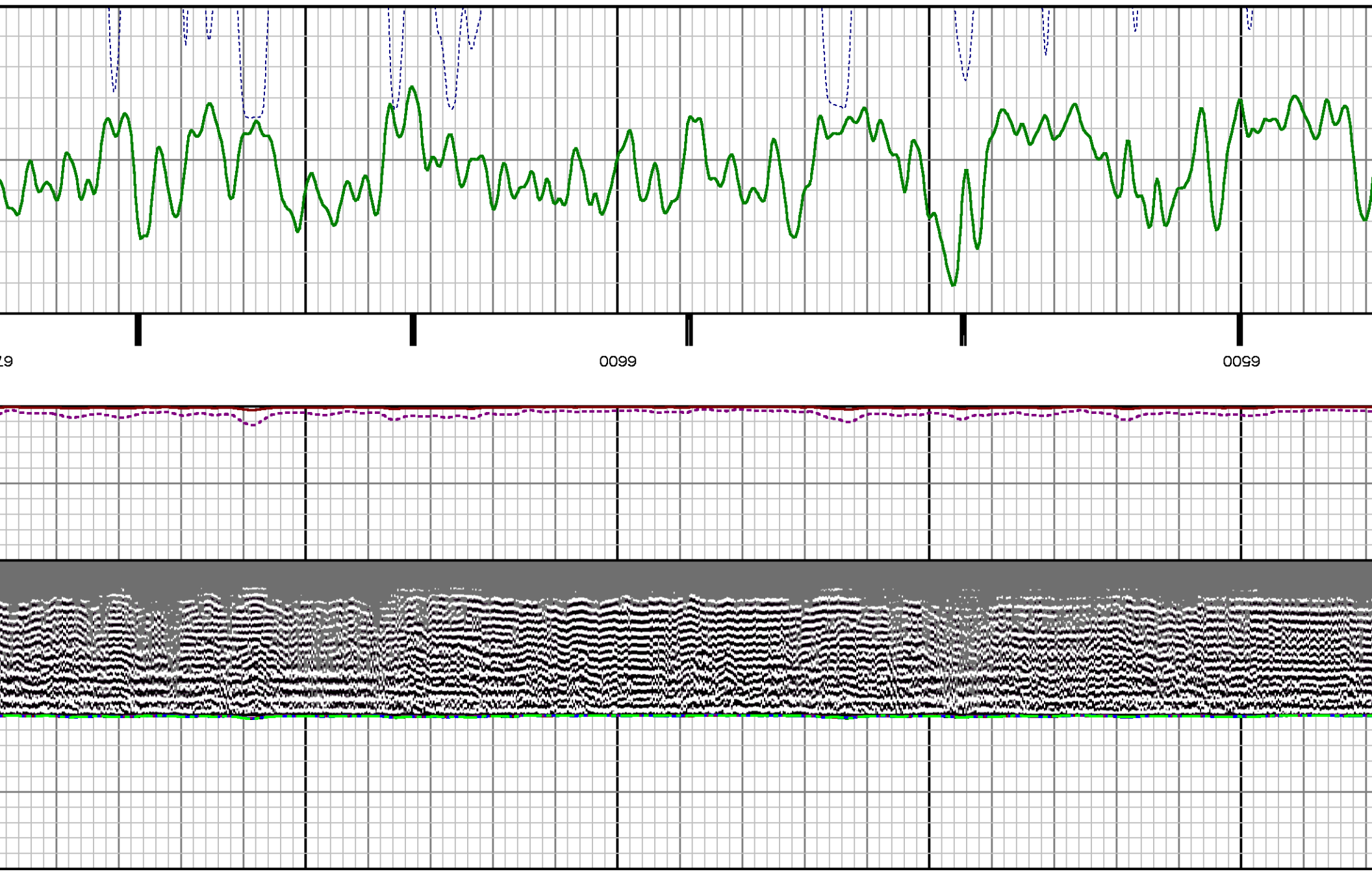
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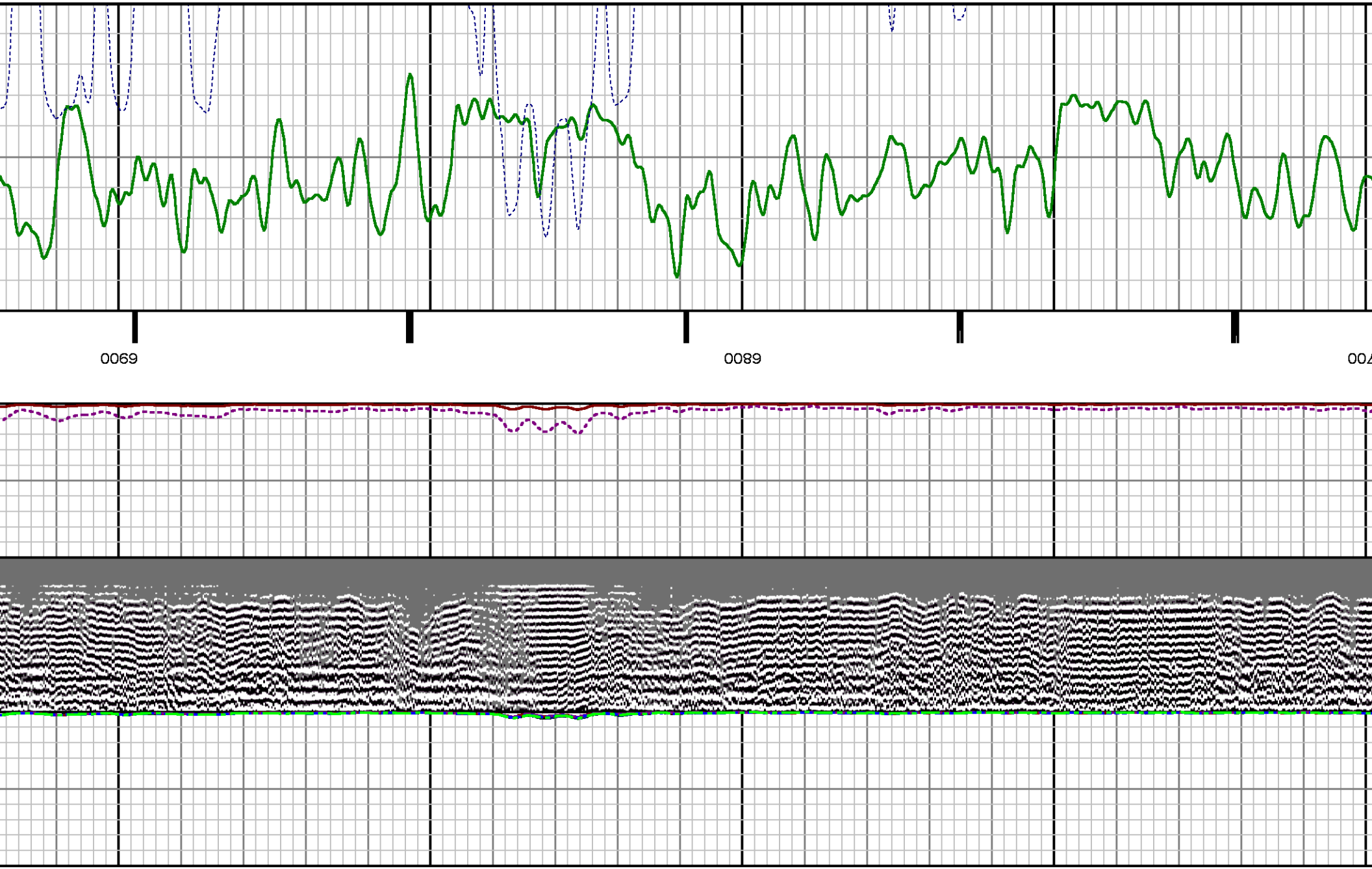
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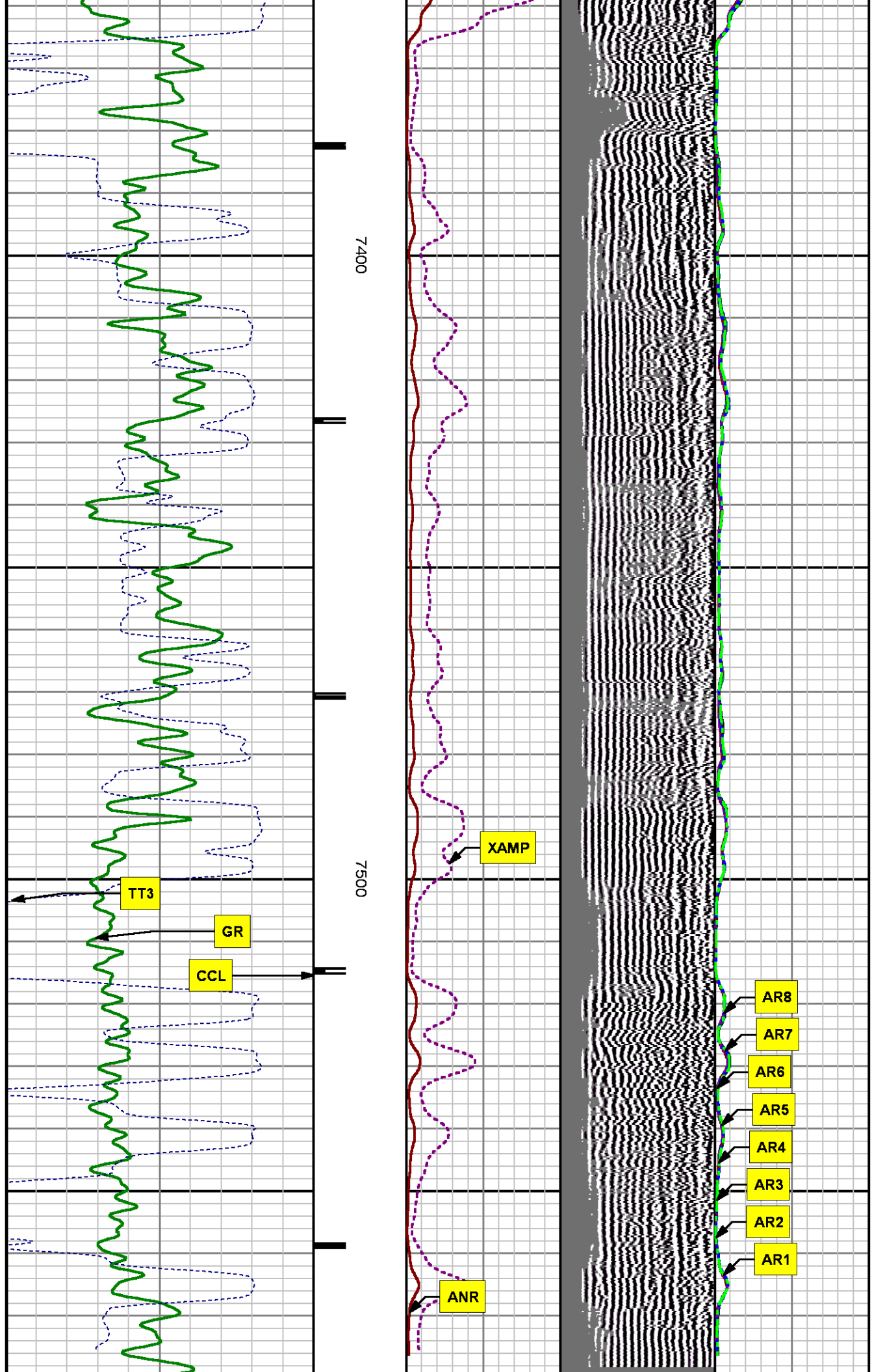
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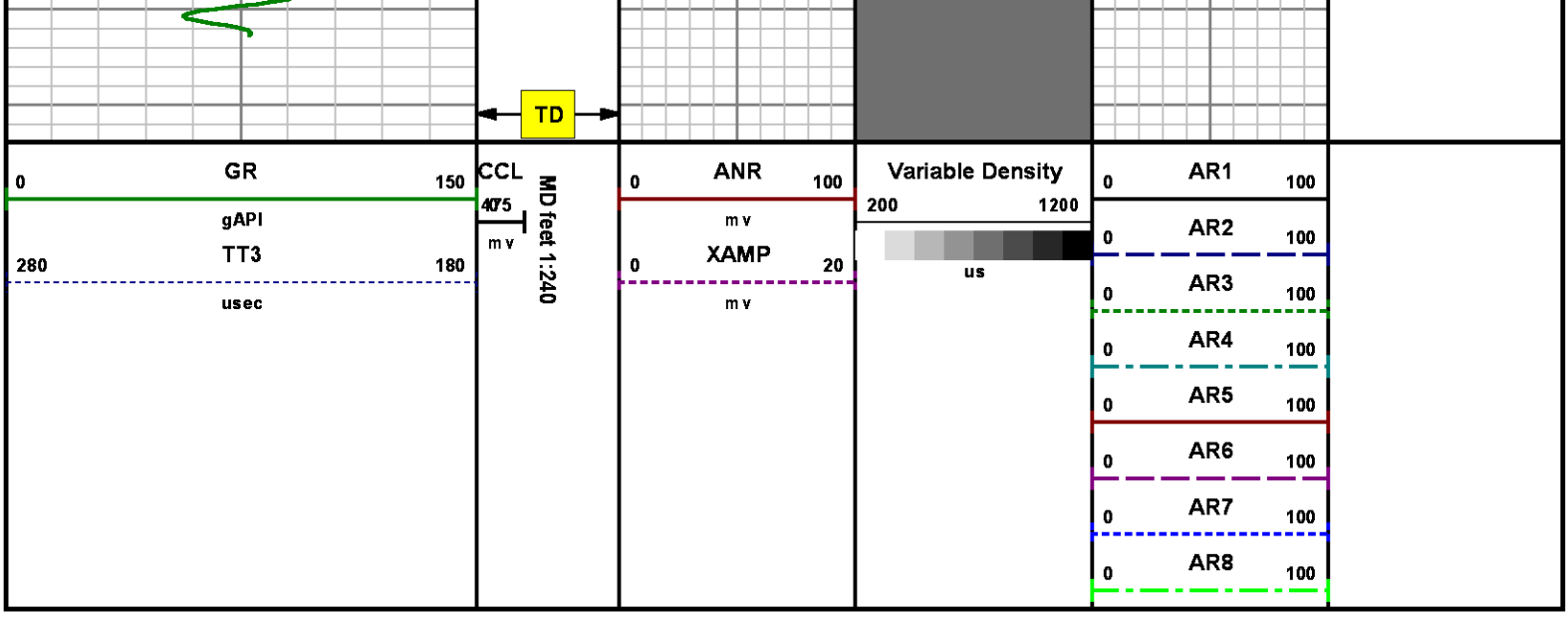


REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7257.690	7590.690
RAL	Amp Gate Start Near	195.000	usec	7257.690	7590.690
RAL	Amp Gate Start Radial	195.000	usec	7257.690	7590.690
RAL	Amp Gate Width Far	25.000	usec	7257.690	7590.690
RAL	Amp Gate Width Near	25.000	usec	7257.690	7590.690
RAL	Amp Gate Width Radial	25.000	usec	7257.690	7590.690
RAL	casing od	4.500	inches	7257.690	7590.690
RAL	casing wt	11.600	lbm/ft	7257.690	7590.690
RAL	FB Start Far	291.900	usec	7257.690	7590.690
RAL	FB Start Near	180.000	usec	7257.690	7590.690
RAL	FB Start Radial	180.000	usec	7257.690	7590.690
RAL	FB Thresh Far	10.000	mv	7257.690	7590.690
RAL	FB Thresh Near	4.000	mv	7257.690	7590.690
RAL	FB Thresh Radial	4.000	mv	7257.690	7591.252
RAL	Fluid Travel Time	200.000	usec/ft	7257.690	7591.252

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

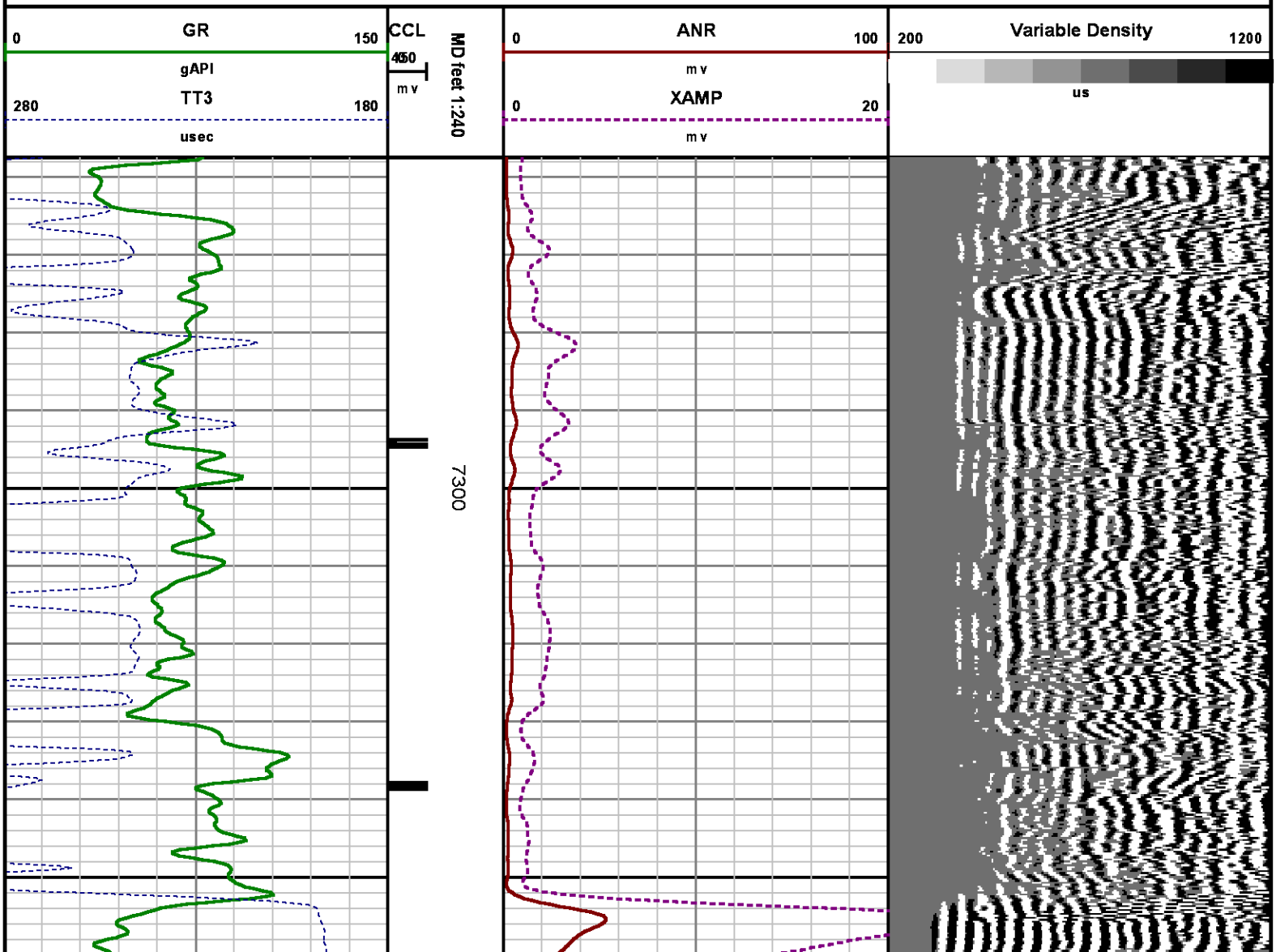
Well : WPX ENERGY PA 313-2

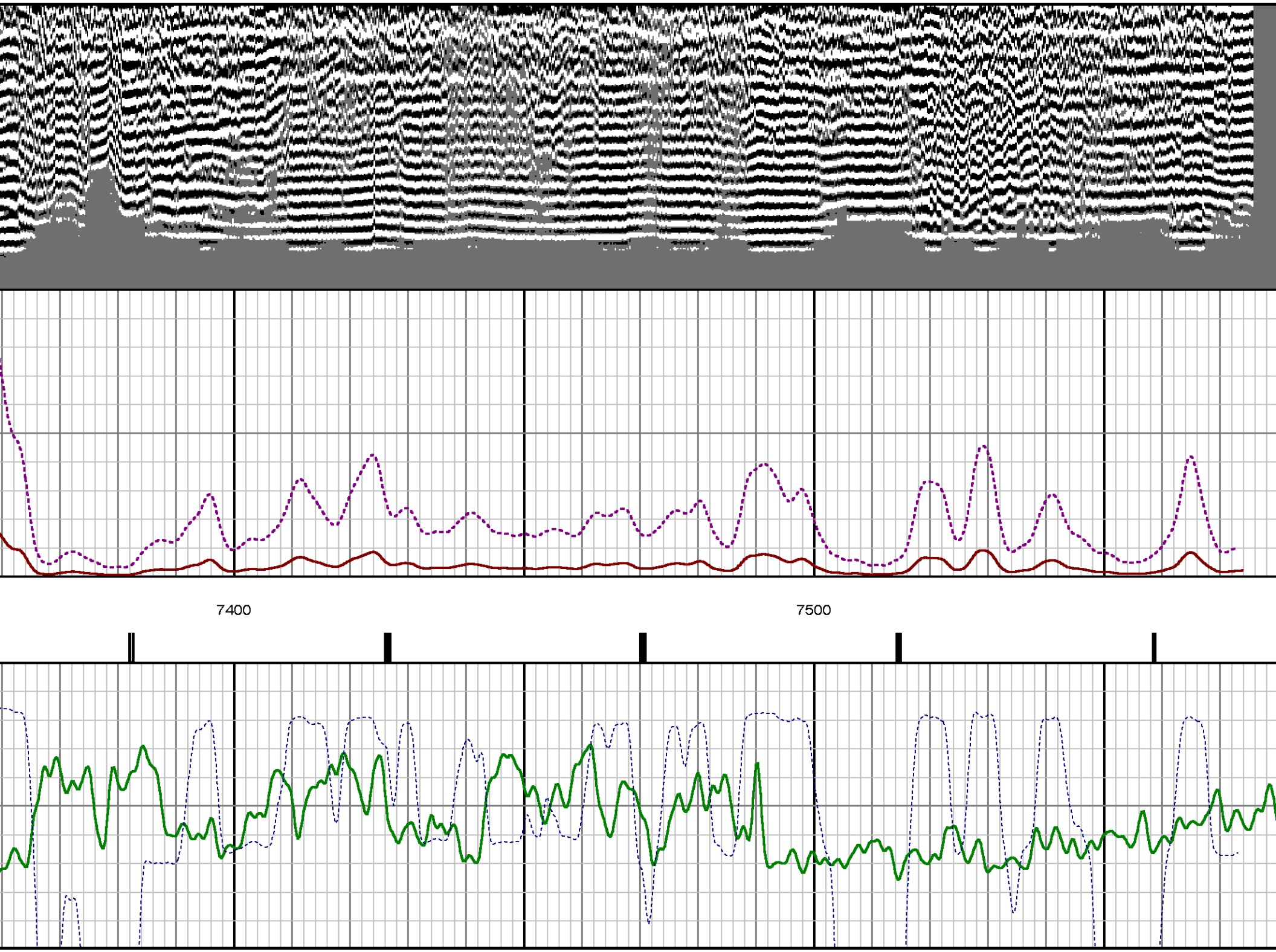
File Name : d:\welldata\wpx\pa 313-2\312ral\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 7257.44 - 7591.19 feet UP

Created : 3/20/2014 3:25:45 PM

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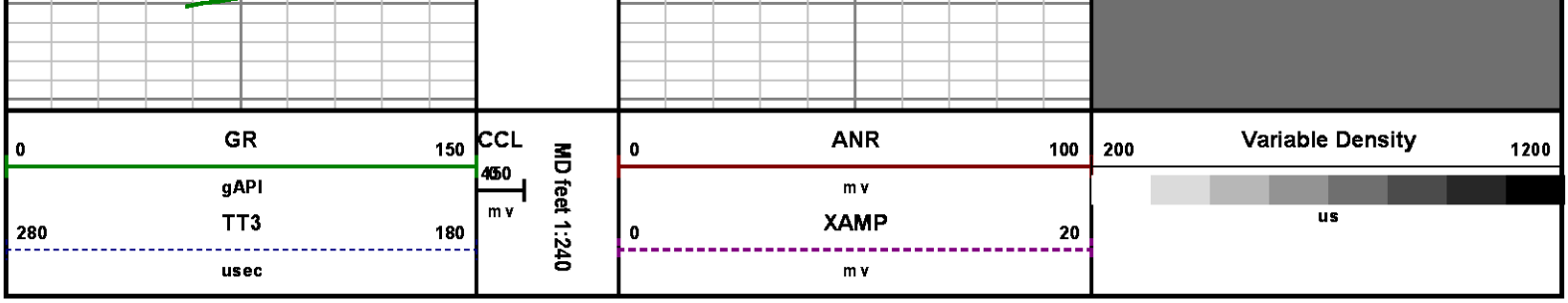


CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496M20_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Mar 20 11:02:47 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: M20

Tool Delay [usec]	-56.00	Tank OD in	5.50	Tank Wt lbm/ft	15.50	Tank ID in	4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	217	216	30	166	25	0.100	100.00	0.16
3 Ft. Receiver	217	216	30	145	25	-0.125	100.00	0.16
5 Ft. Receiver	326	325	30	200	25	0.095	150.00	0.18
Radial #1	216	216	30	140	25	-0.201	100.00	0.15
Radial #2	217	216	30	140	25	-0.268	100.00	0.15
Radial #3	217	216	30	140	25	-0.209	100.00	0.16
Radial #4	217	216	30	140	25	-0.203	100.00	0.16
Radial #5	216	216	30	140	25	-0.263	100.00	0.16
Radial #6	216	216	30	140	25	-0.185	100.00	0.16
Radial #7	215	216	30	140	25	-0.206	100.00	0.15
Radial #8	217	216	30	140	25	-0.170	100.00	0.15

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496M20_fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Mar 20 11:04:58 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: M20

Tool Delay [usec]	Casing OD in	Casing Wt lbm/ft	Casing ID in
-56.00	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	0.046	0.000	1.04	100.000
3 Ft. Receiver	195	25	2.113			
5 Ft. Receiver	305	25	2.890			
Radial #1	195	25	1.896			
Radial #2	195	25	1.948			
Radial #3	195	25	1.976			
Radial #4	195	25	1.974			
Radial #5	195	25	2.130			
Radial #6	195	25	2.375			
Radial #7	195	25	1.929			
Radial #8	195	25	1.955			

GAMMA RAY

Calibration File: C:\case\calver\GR\45609.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Mar 09 11:17:29 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 09

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA-612	52.36	330.13	0.666	34.87	219.87	185.00

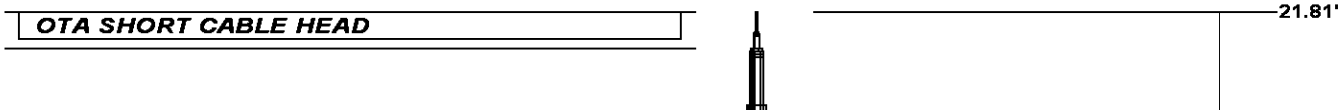
Verification File: C:\case\calver\GR\45609.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sun Mar 09 11:18:54 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 09

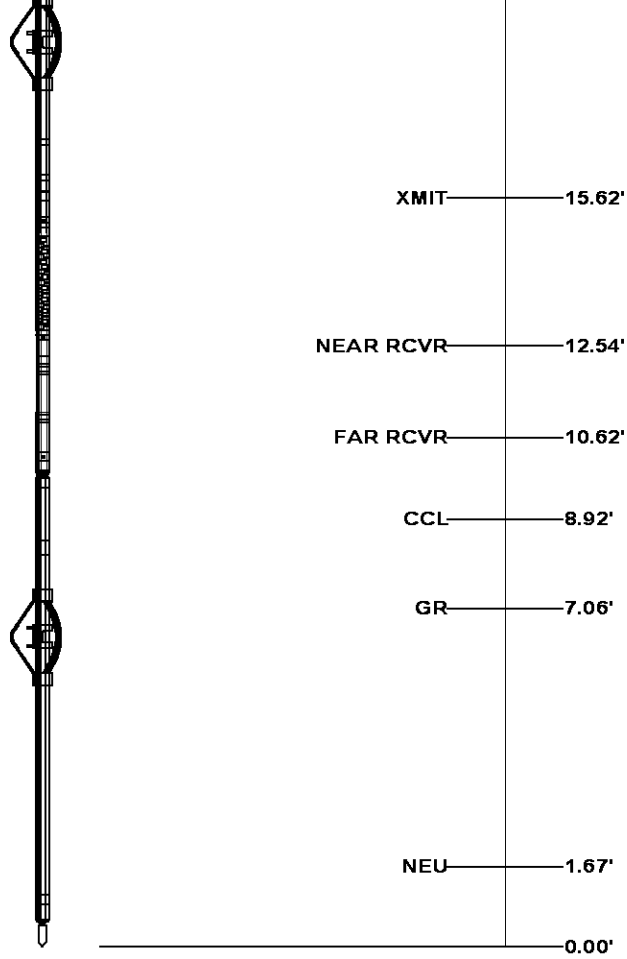
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA-612	56.49	331.07	0.666	37.62	220.49	182.87

TOOL DIAGRAM



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: CH083903
Well	WPX ENERGY PA 313-2		API No: 05045221420000
Field	PARACHUTE		
County	GARFIELD	State COLORADO	

Location	Elevations	
SHL: 2047' FSL & 1549' FWL	KB 5846 ft	2 7S 95W
BHL: 2135' FSL & 303' FWL	DF	GV 86-2 PAD
	GL 5821 ft	AZTEC 1000
SEC 2 TWP 7S RGE 95W		