



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	EXXONMOBIL PRODUCTION COMPANY	
CH024764	Well	PCU 197-34A7	
API No.	Field	PICEANCE CREEK	
06103110580000	Country	RIO BLANCO	
	State	COLORADO	
	Location:	Other Services	
	17021' FSL & 109' FTL	RPW	
	SEC: 34	TWP: 15	RGE: 97W
Permanent Datum	G.L.	Elevation	8488 ft
Log Measured From	K.B.	30 ft	Above P. D.
Drill Measured From	KELLY BUSHING		
		KB 8518 ft	
		DF 6317 ft	
		GL 6488 ft	

Date	18-MAY-2010				
Run	ONE				
Service Order	557921				
Depth Driller	12548 ft				
Depth Logger	12494 ft				
Bottom Logged Interval	12494 ft				
Top Logged Interval	5800 ft				
Time Started	04:00				
Time Finished	06:00				
Operator Rig Time	4 HRS				
Type of Fluid in Hole	WATER				
Fluid Density	N/A				
Fluid Salinity	N/A				
Fluid Level	FULL				
Logged Cement Top	N/A				
Wellhead Pressure	0 psi				
Maximum Hole Deviation	N/A				
Nominal Logging Speed	45 fpm				
Maximum Recorded Temperature	N/A				
Reference Log	BY/PPW				
Reference Log Date	15-MAY-10				
Equipment	4271	Location	GRAND JCT, CO		
Recorded By	TIM KAUTT				
Witnessed By	MR. JIM JONES				

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

Borehole Record		
Bit Size	From	To
9.875 in		
7.875 in		

Casing Record				
Size	Weight	Grade	From	To
7 in	26 lbm/ft	P-110	SURFACE	8585 ft
4.5 in	15.1 lbm/ft	P-110	SURFACE	12548 ft

Remarks
SHORT JOINTS ARE MARKED ON LOG
THE CREW OF 4271 THANKS YOU.

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position

1	1	MANDREL	1426XA	10189154	CENTRALIZED
1	1	GAMMA RAY	2458XA	10417457	CENTRALIZED

MAIN SECTION PRIMARY PRESENTATION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	5799.937	12513.000
RAL	Amp Gate Start Near	197.754	usec	5799.937	12513.000
RAL	Amp Gate Start Radial	197.754	usec	5799.937	12513.000
RAL	Amp Gate Width Far	25.000	usec	5799.937	12513.000
RAL	Amp Gate Width Near	25.000	usec	5799.937	12513.000
RAL	Amp Gate Width Radial	25.000	usec	5799.937	12513.000
RAL	casing od	4.500	inches	5799.937	12513.000
RAL	casing wt	15.100	lbm/ft	5799.937	12513.000
RAL	FB Start Far	289.263	usec	5799.937	12513.000
RAL	FB Start Near	172.754	usec	5799.937	12513.000
RAL	FB Start Radial	172.754	usec	5799.937	12513.000
RAL	FB Thresh Far	15.000	mv	5799.937	12513.000
RAL	FB Thresh Near	10.000	mv	5799.937	12513.000
RAL	FB Thresh Radial	10.000	mv	5799.937	12513.000
RAL	Fluid Travel Time	200.000	usec/ft	5799.937	12512.593

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			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

Created by : RAL, v4.8.007

Plotted by : PlatMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

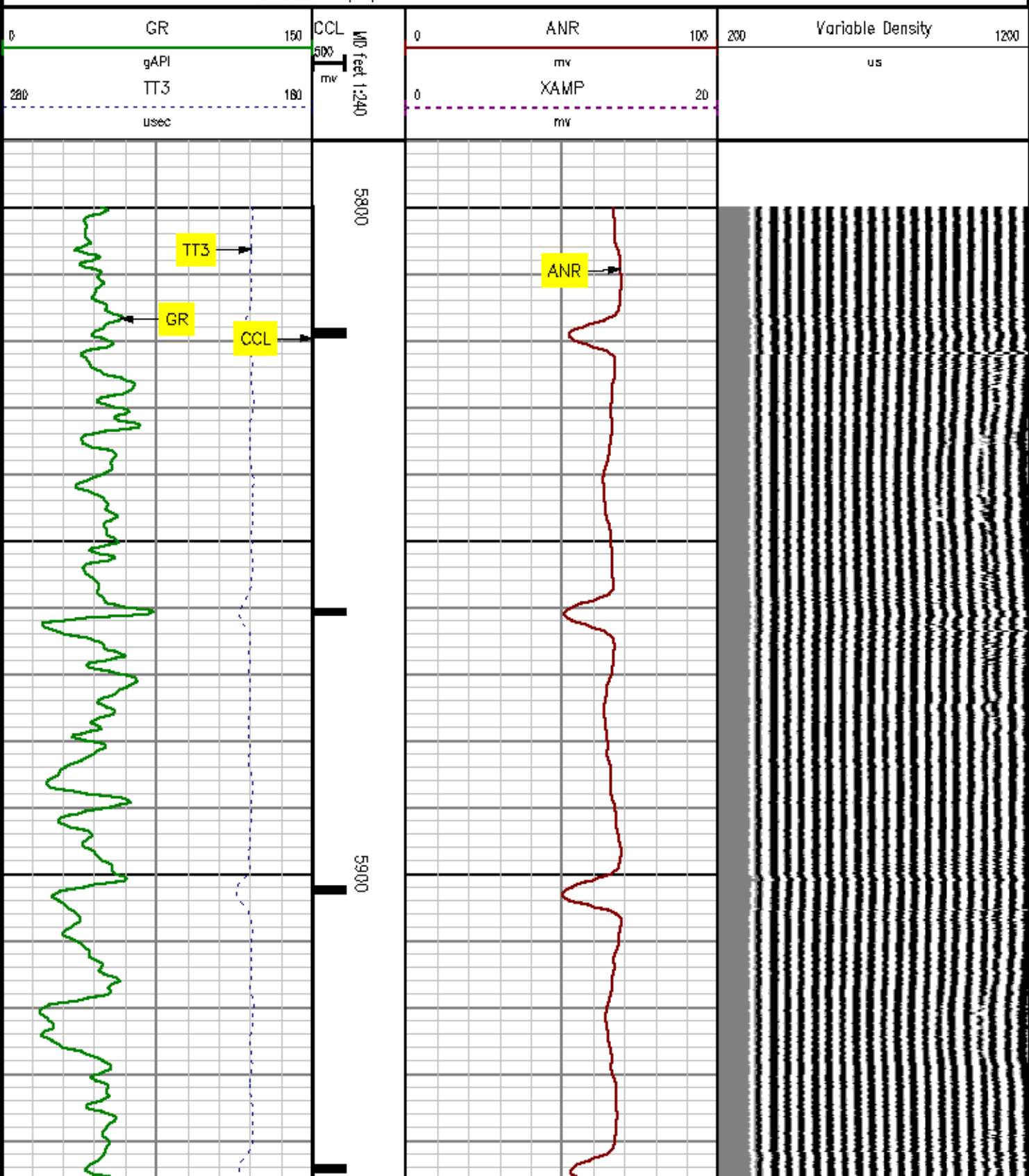
Well : PCU 197-34A7

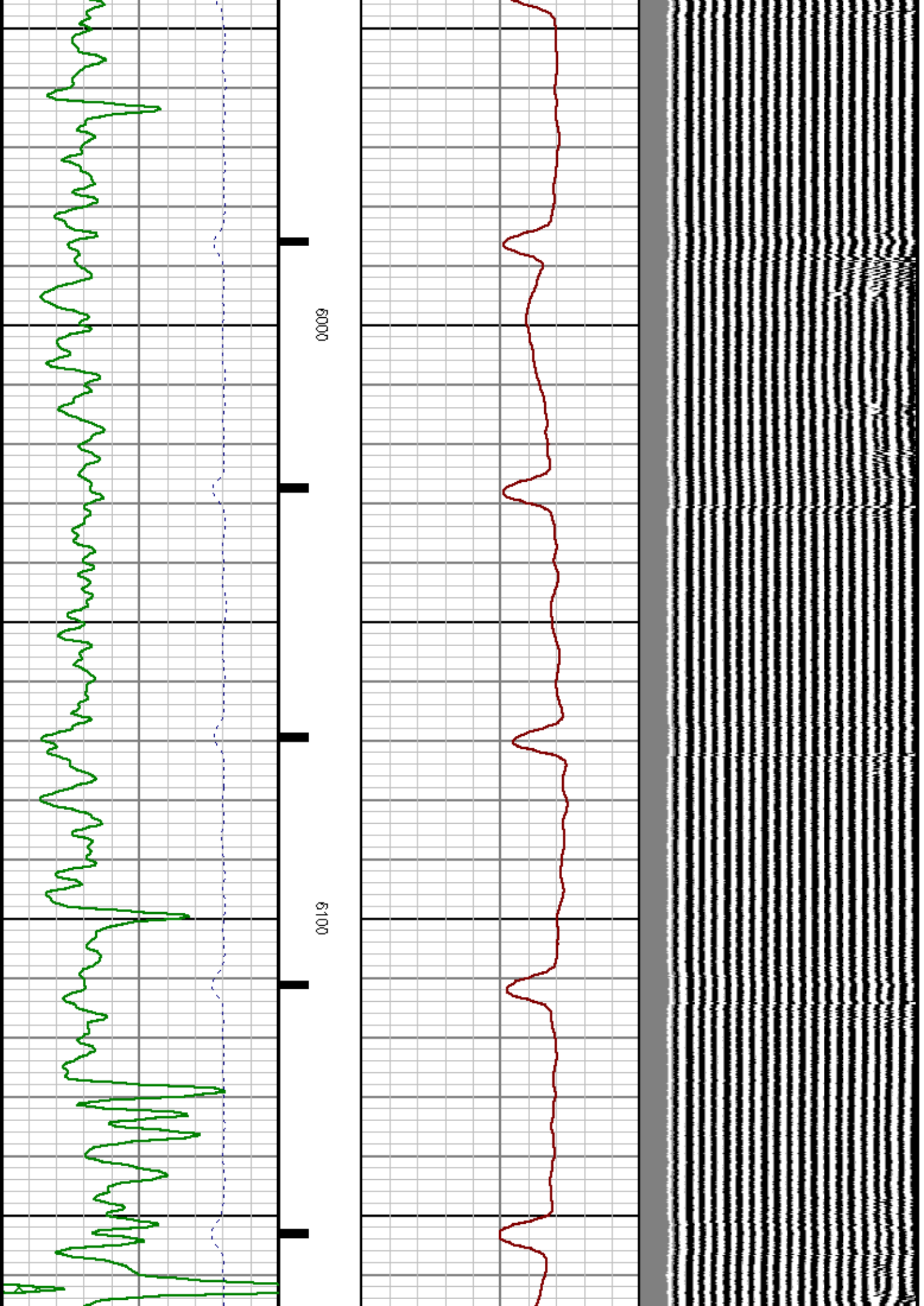
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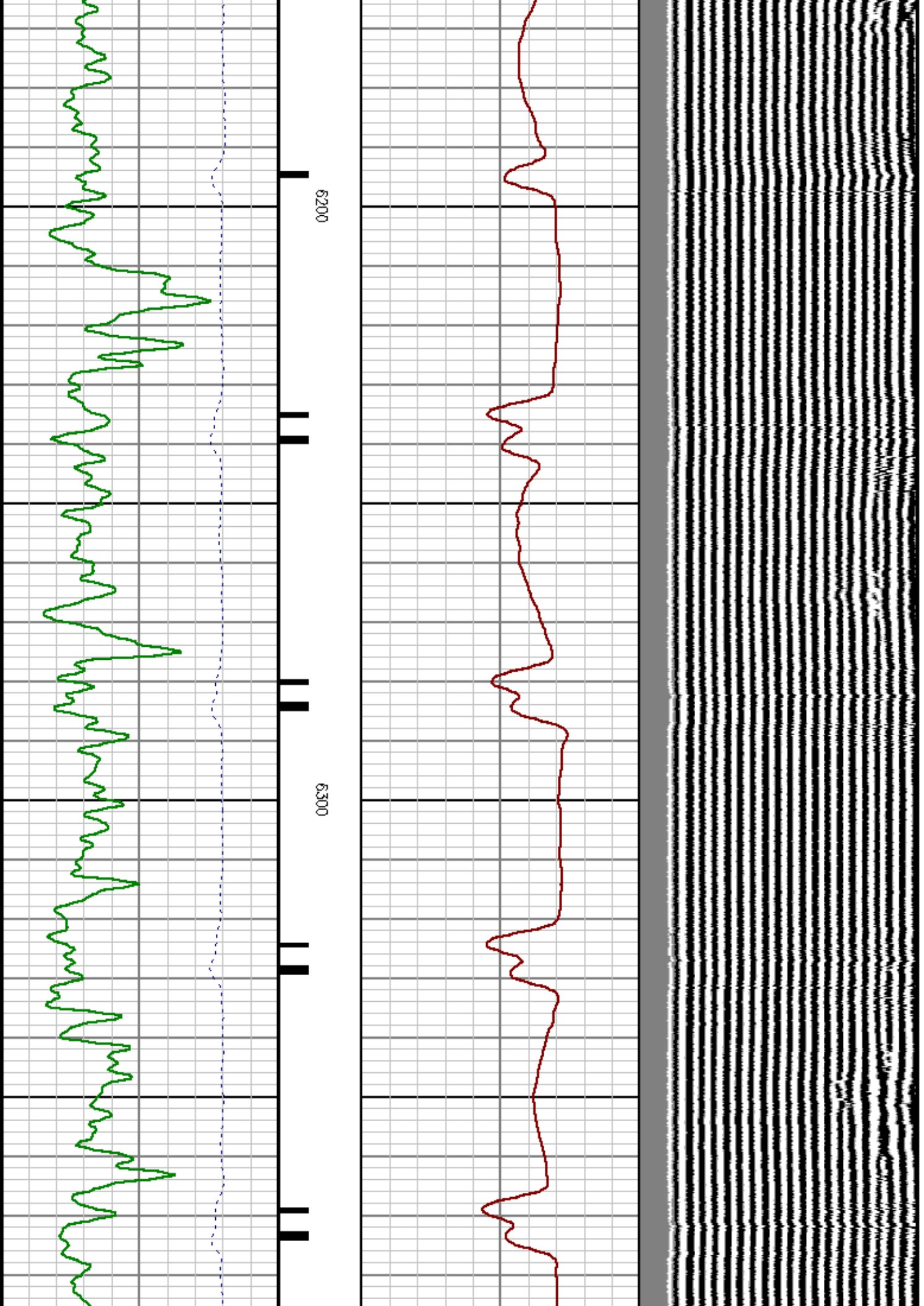
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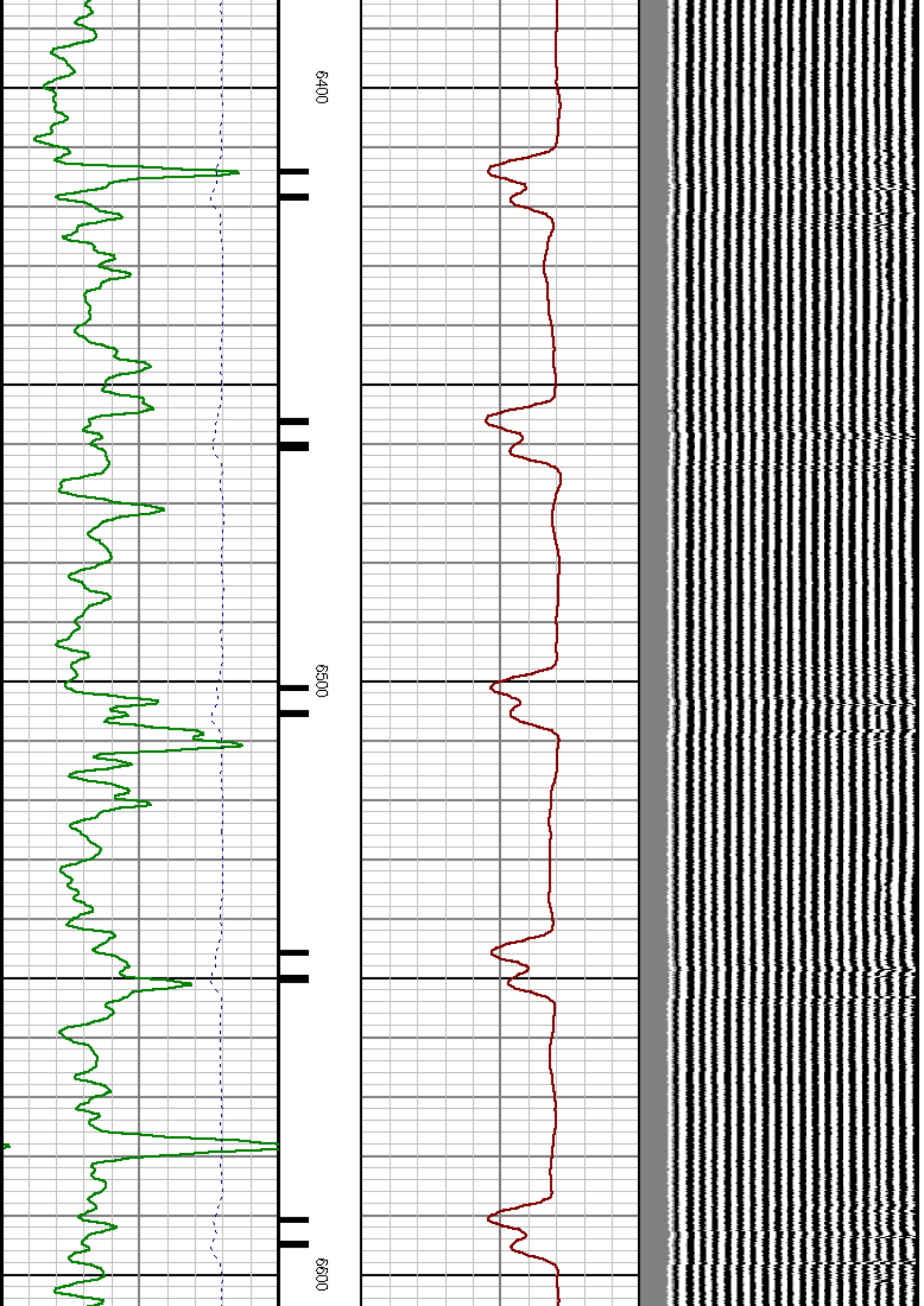
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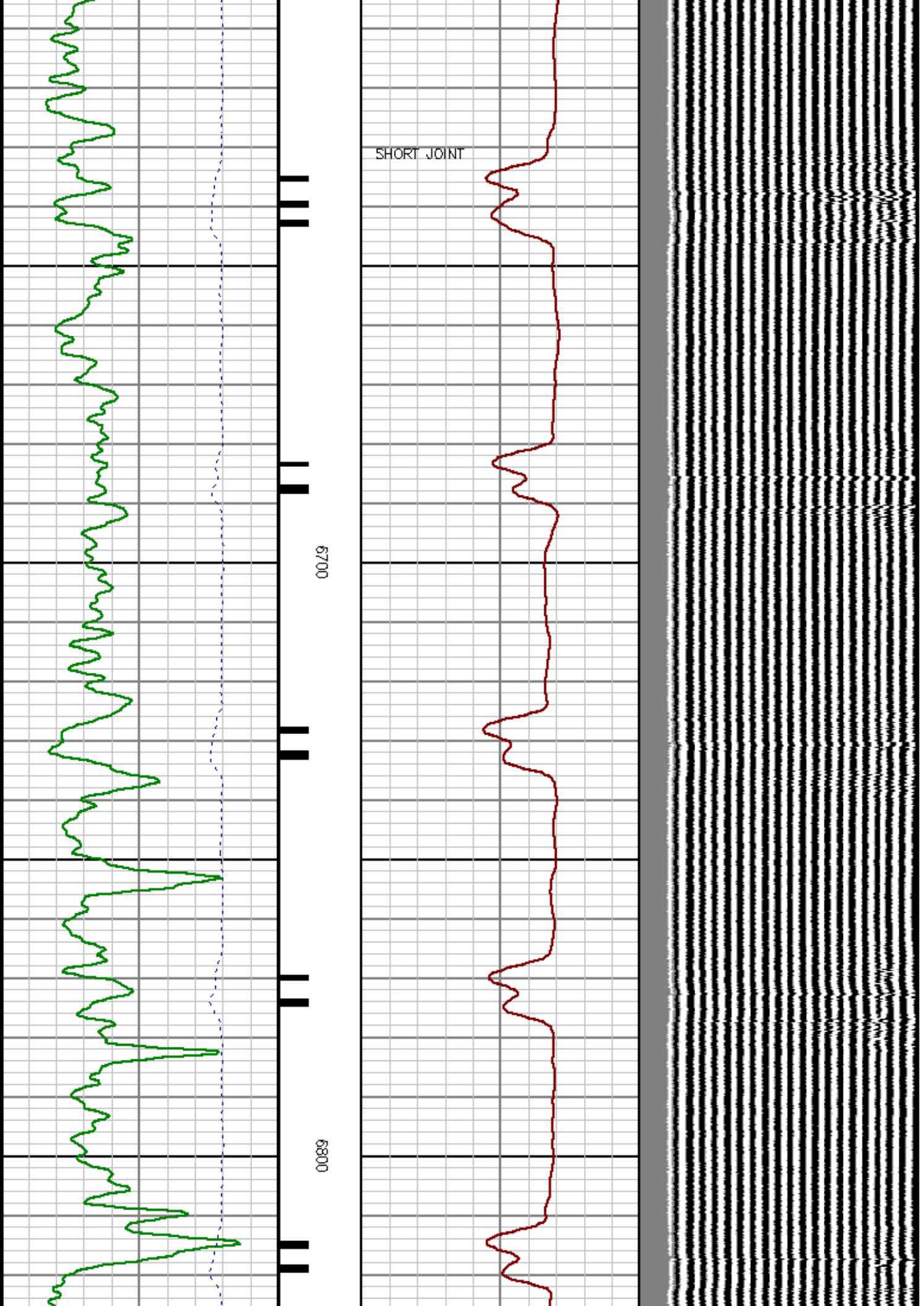
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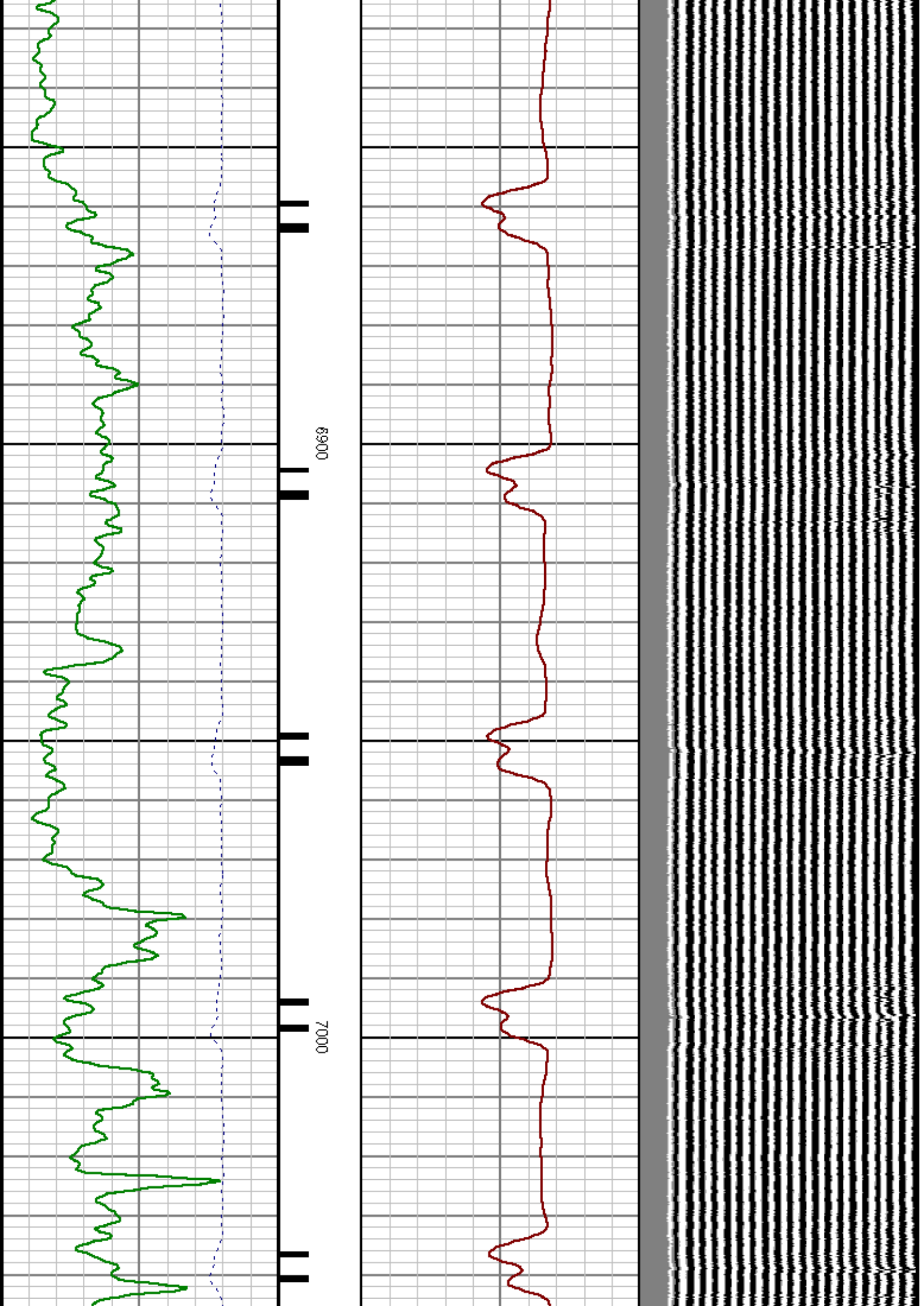


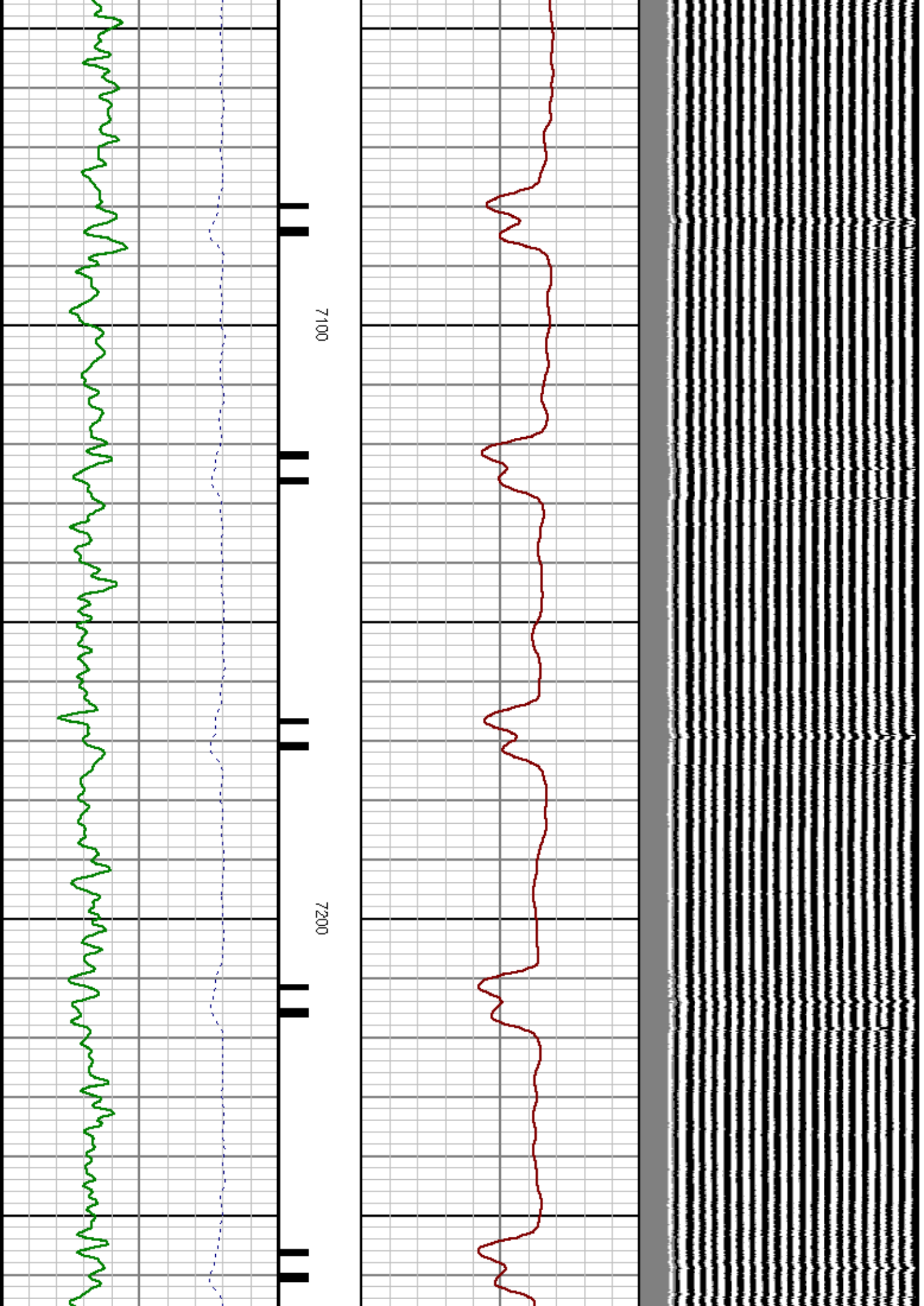


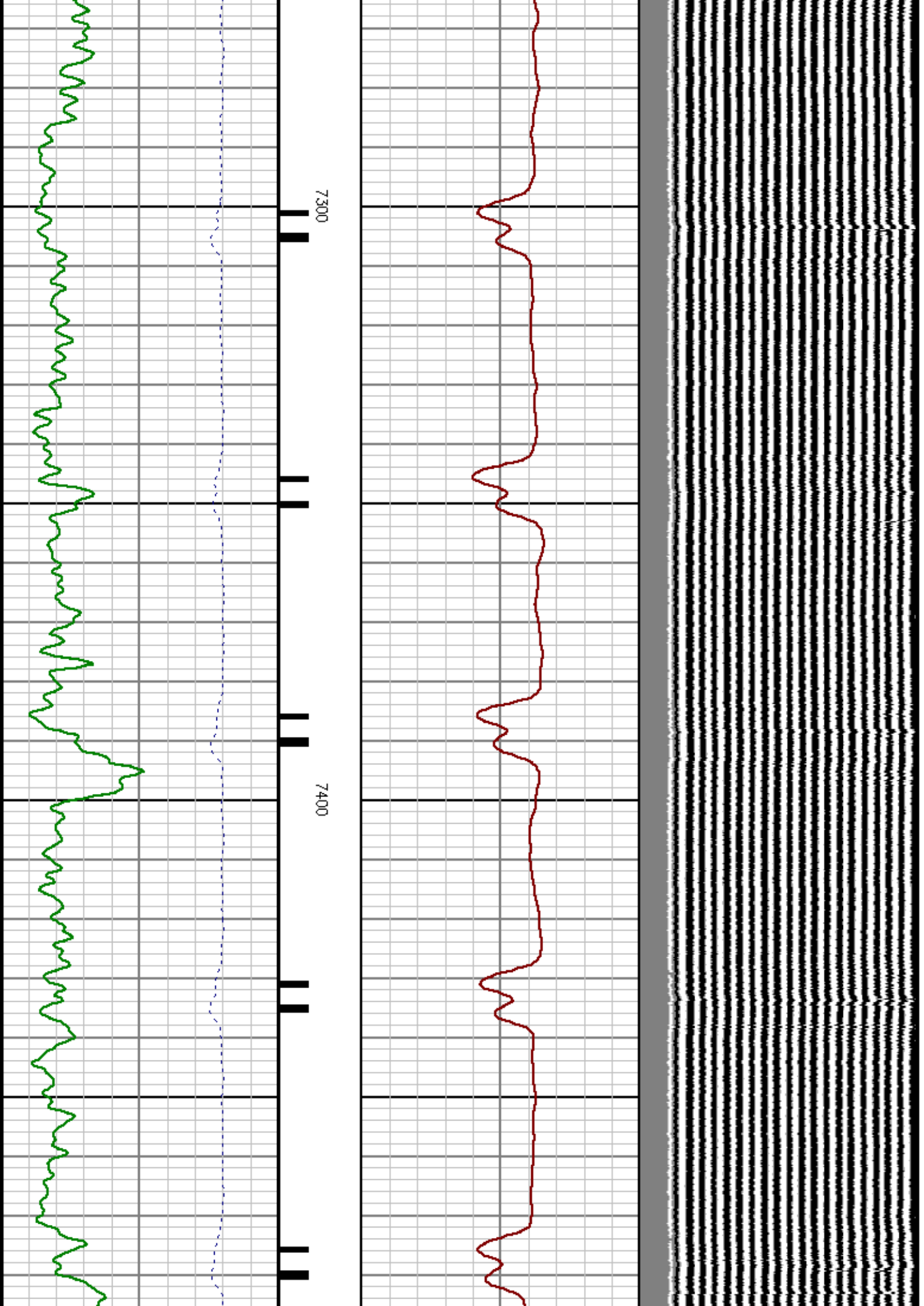


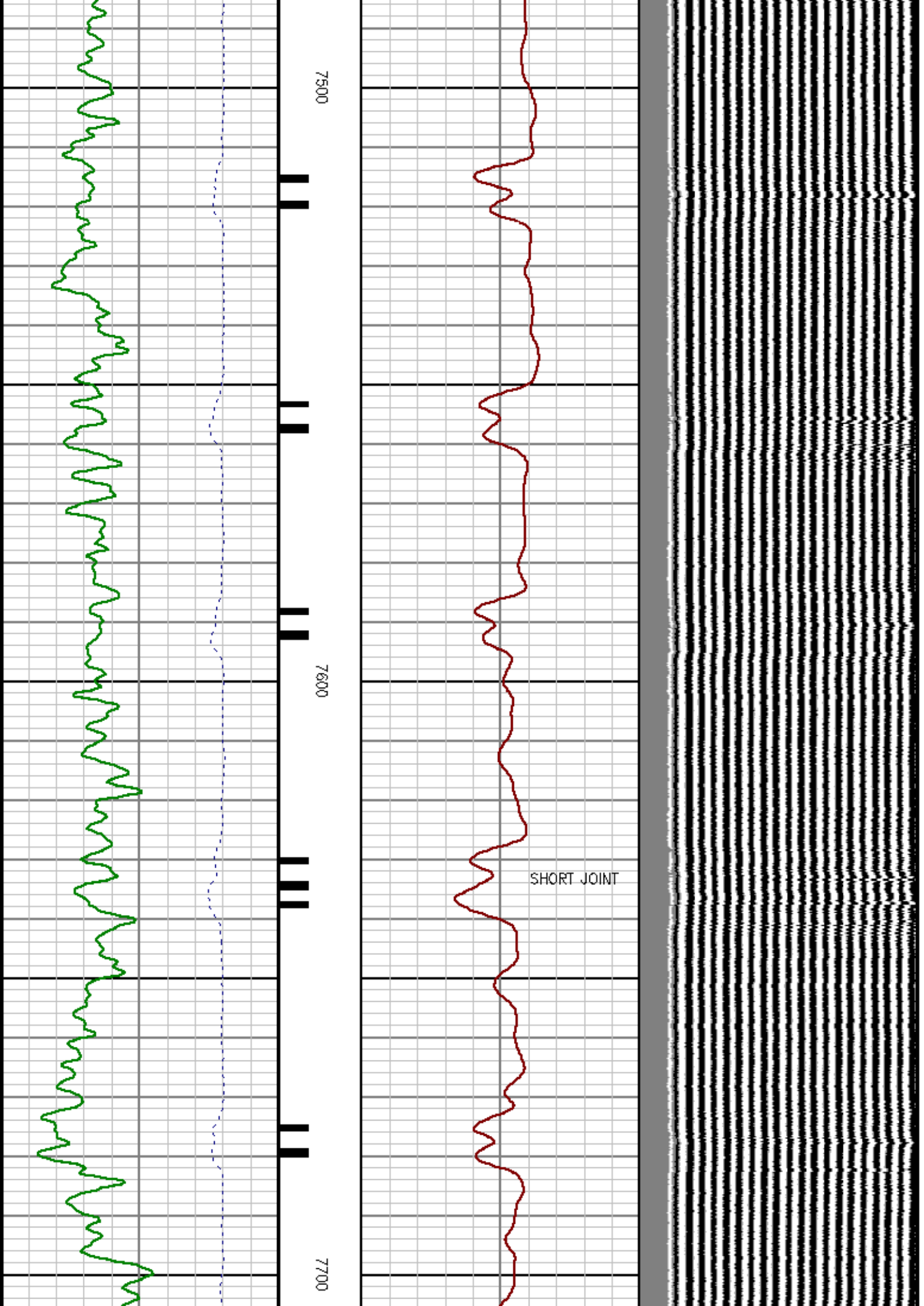


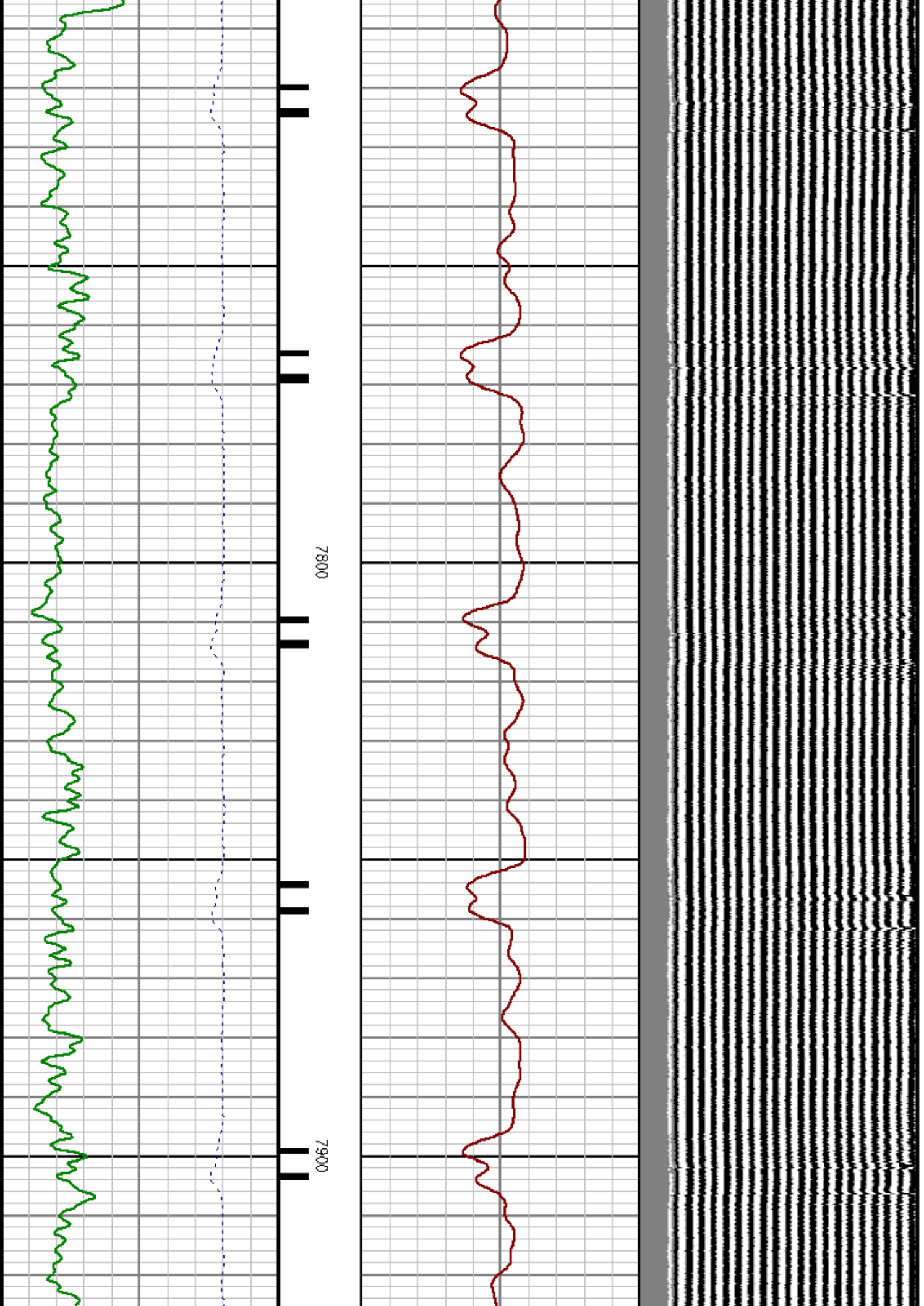


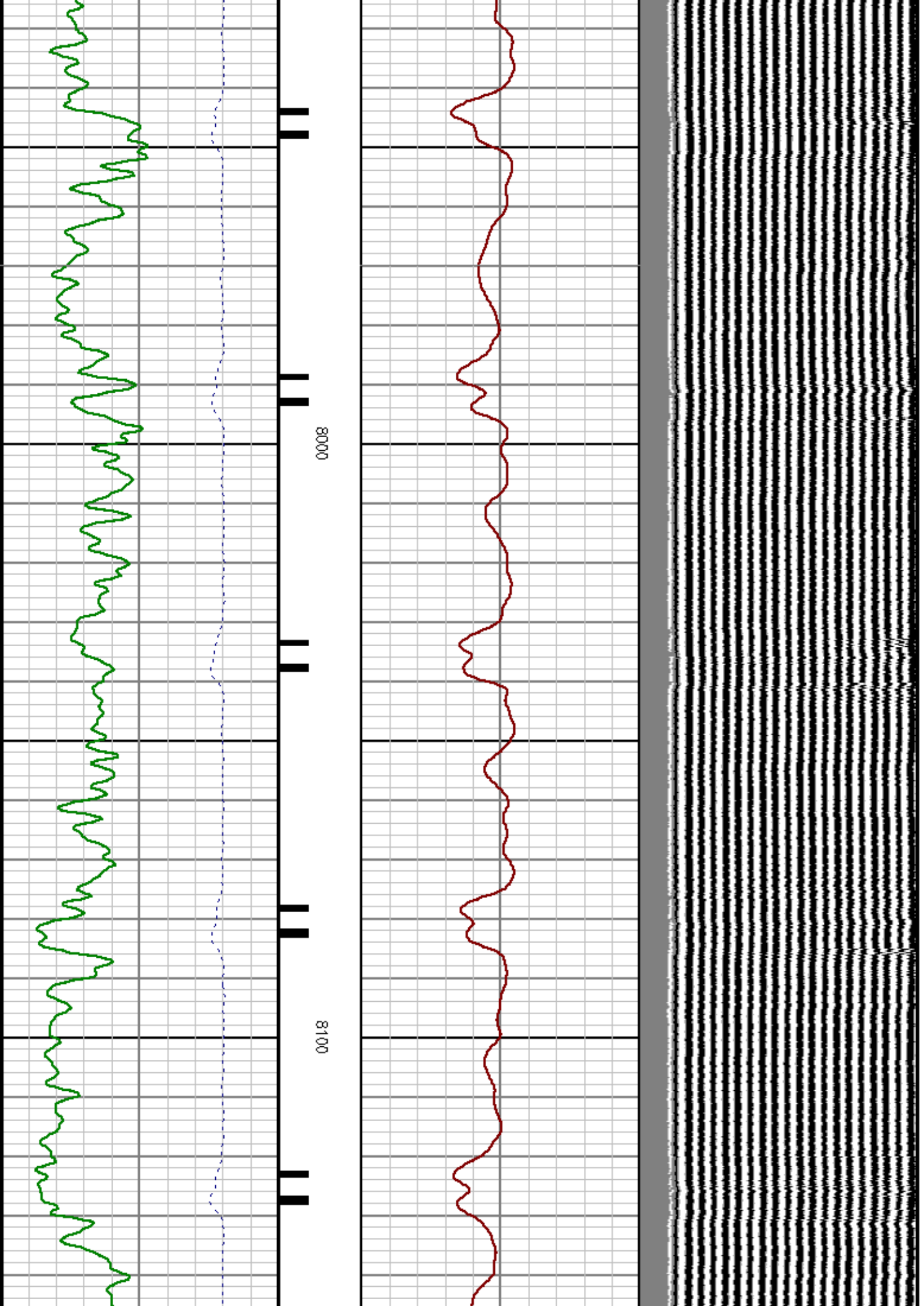


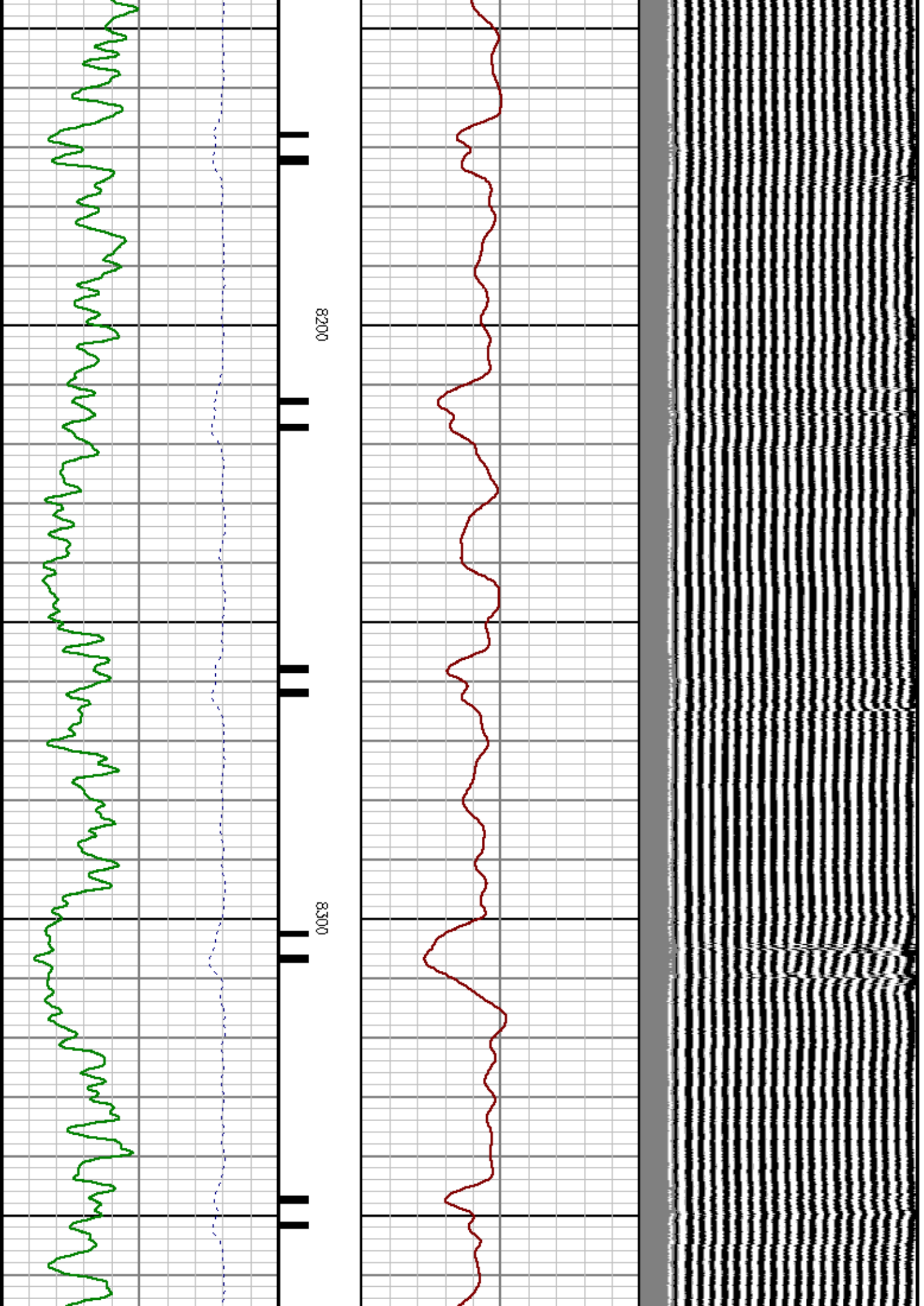


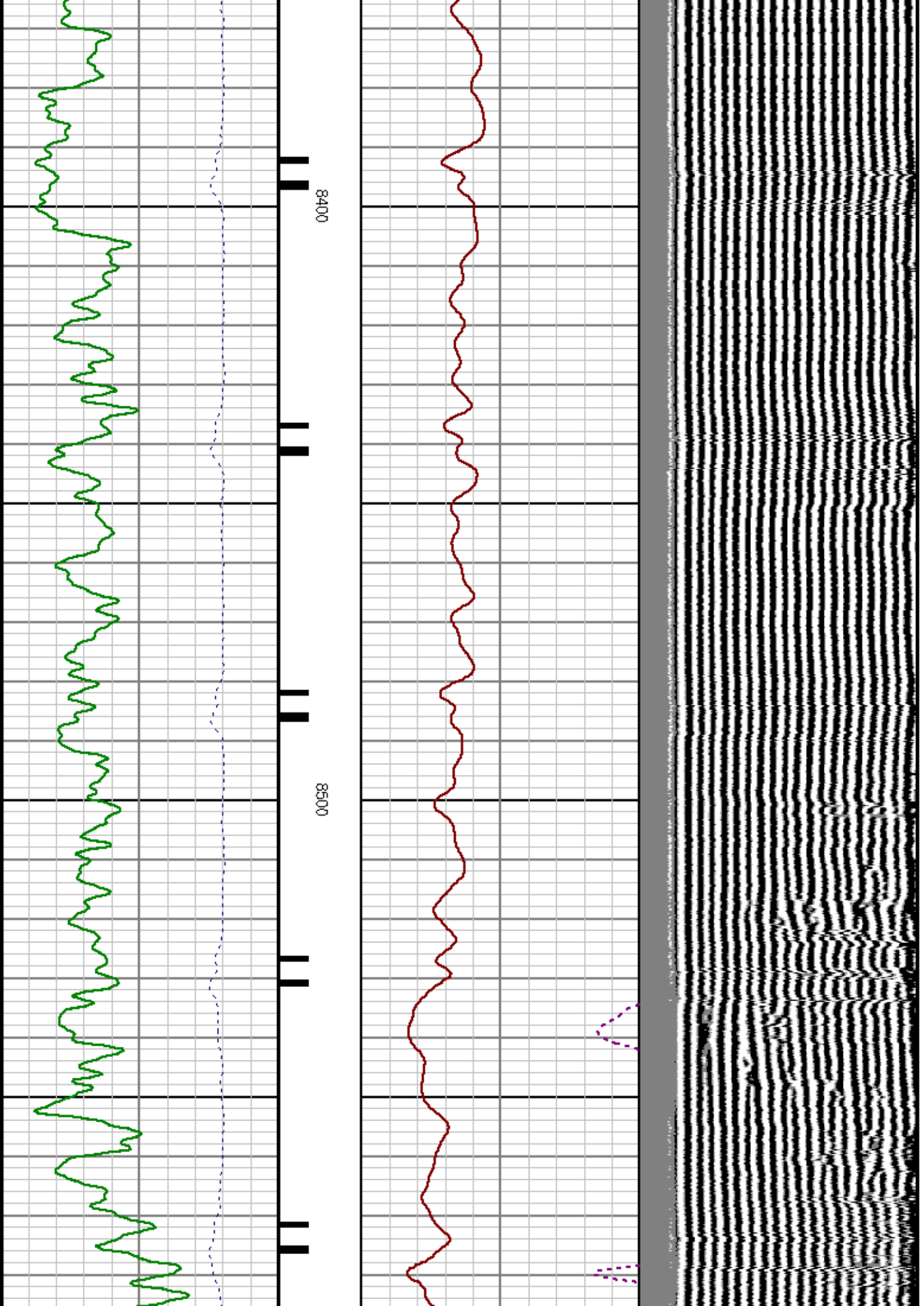


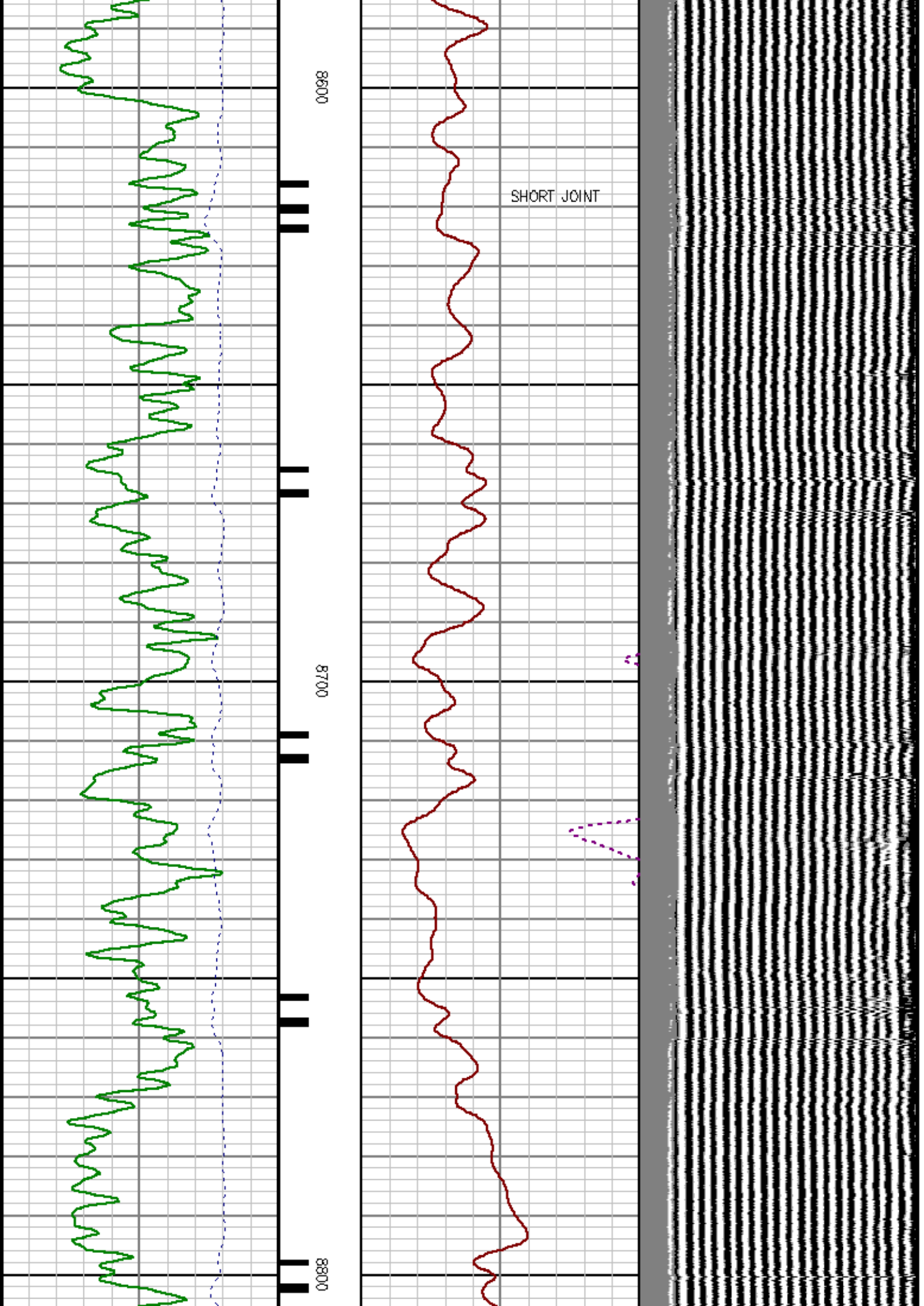


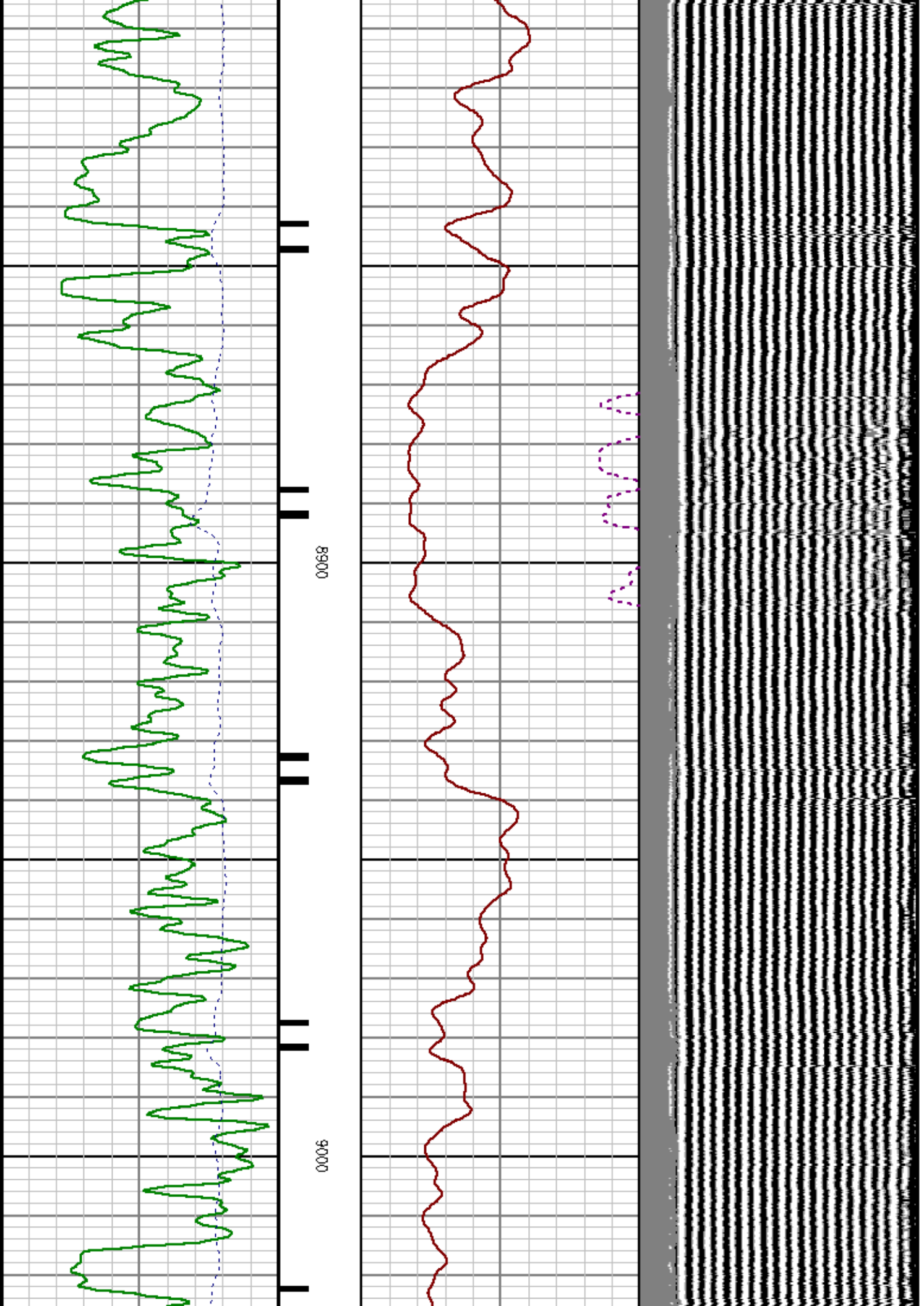


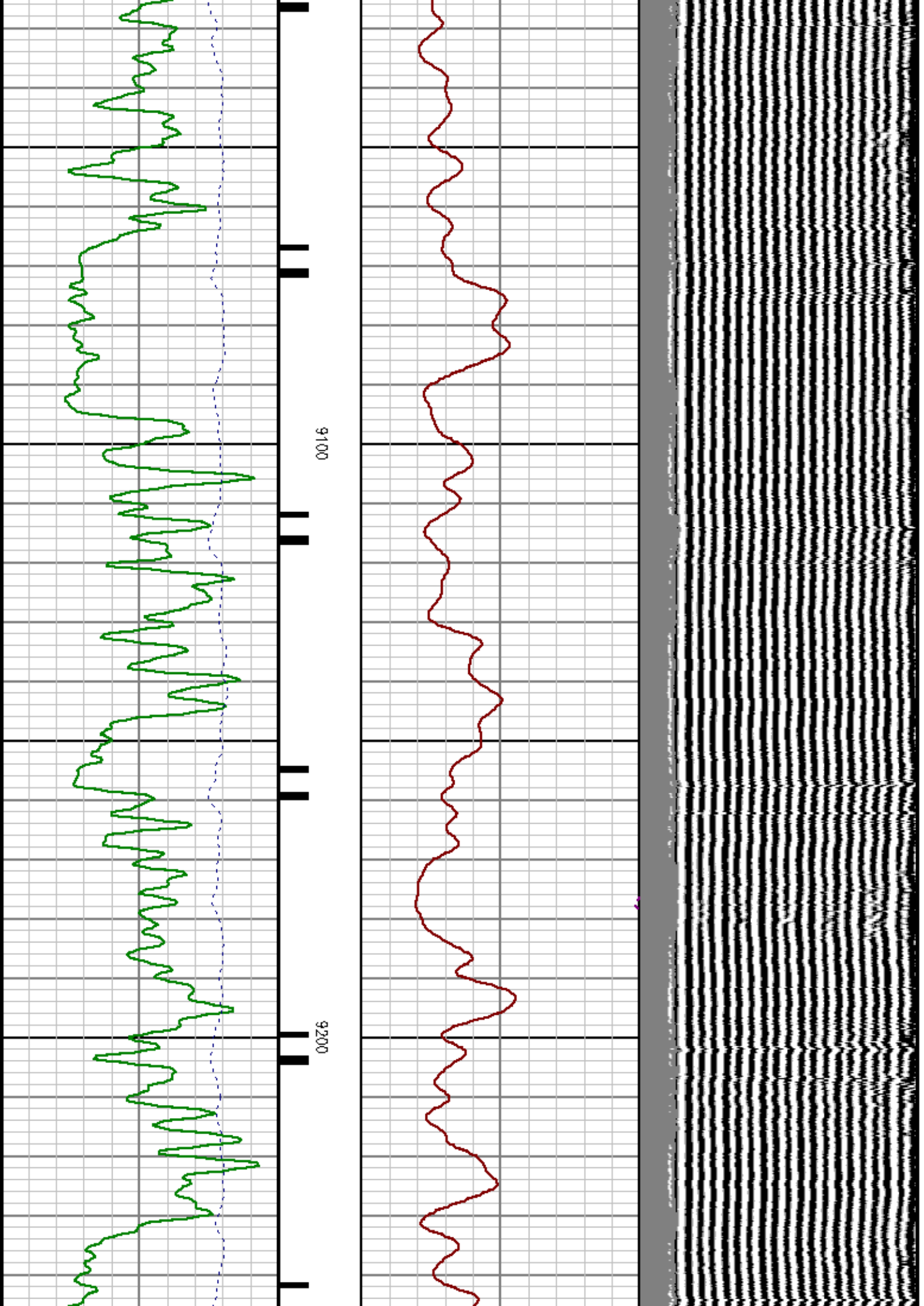


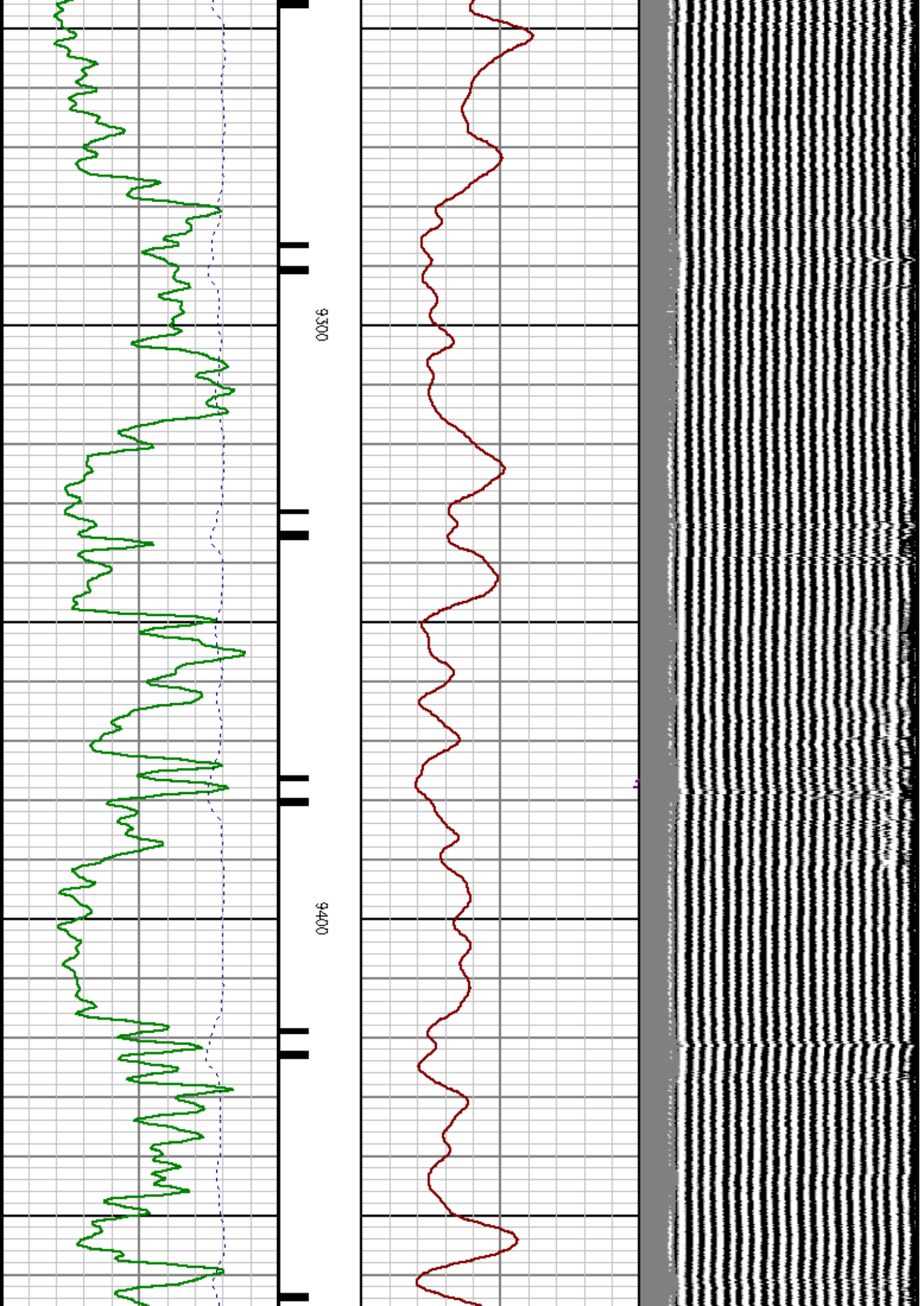


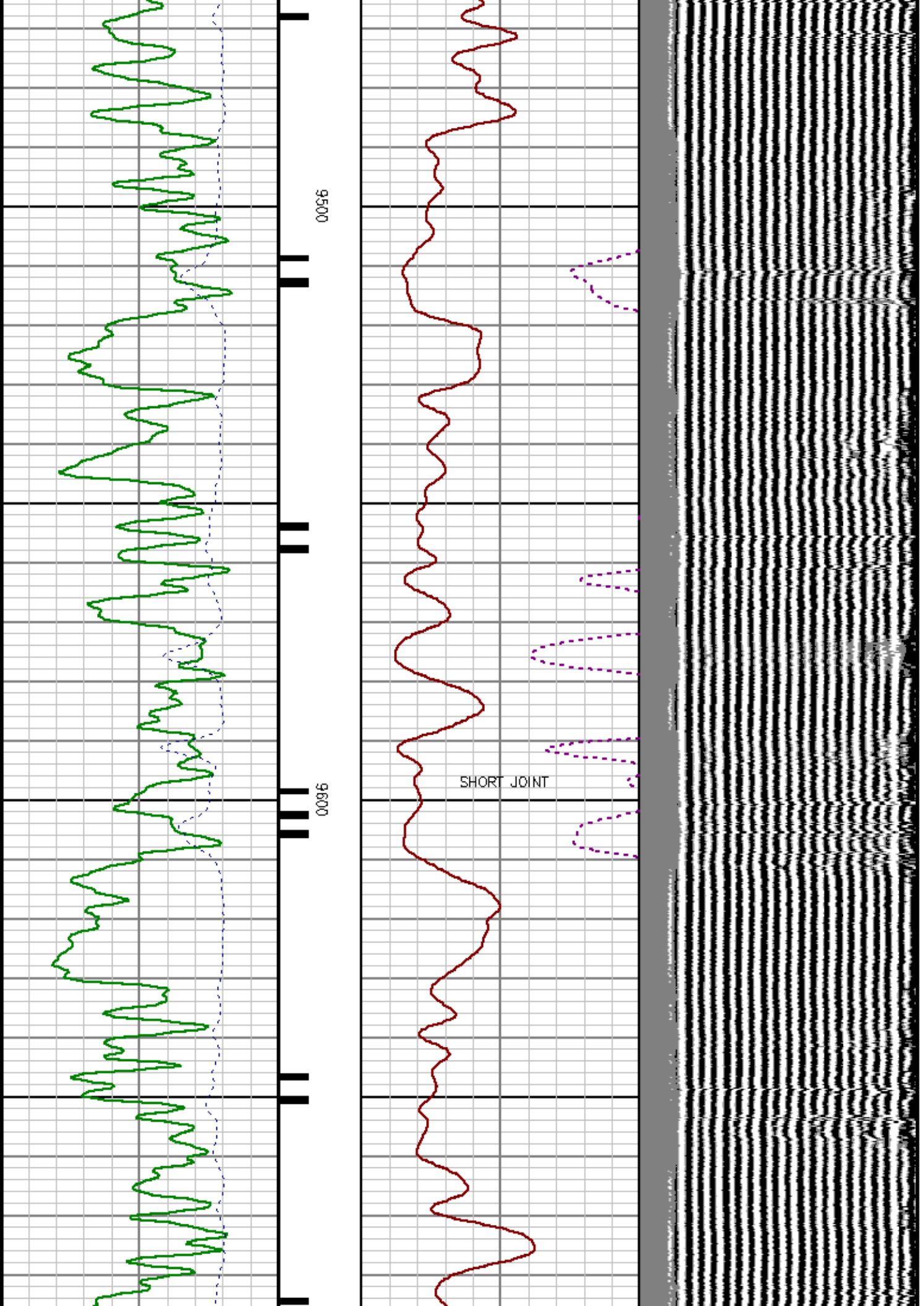


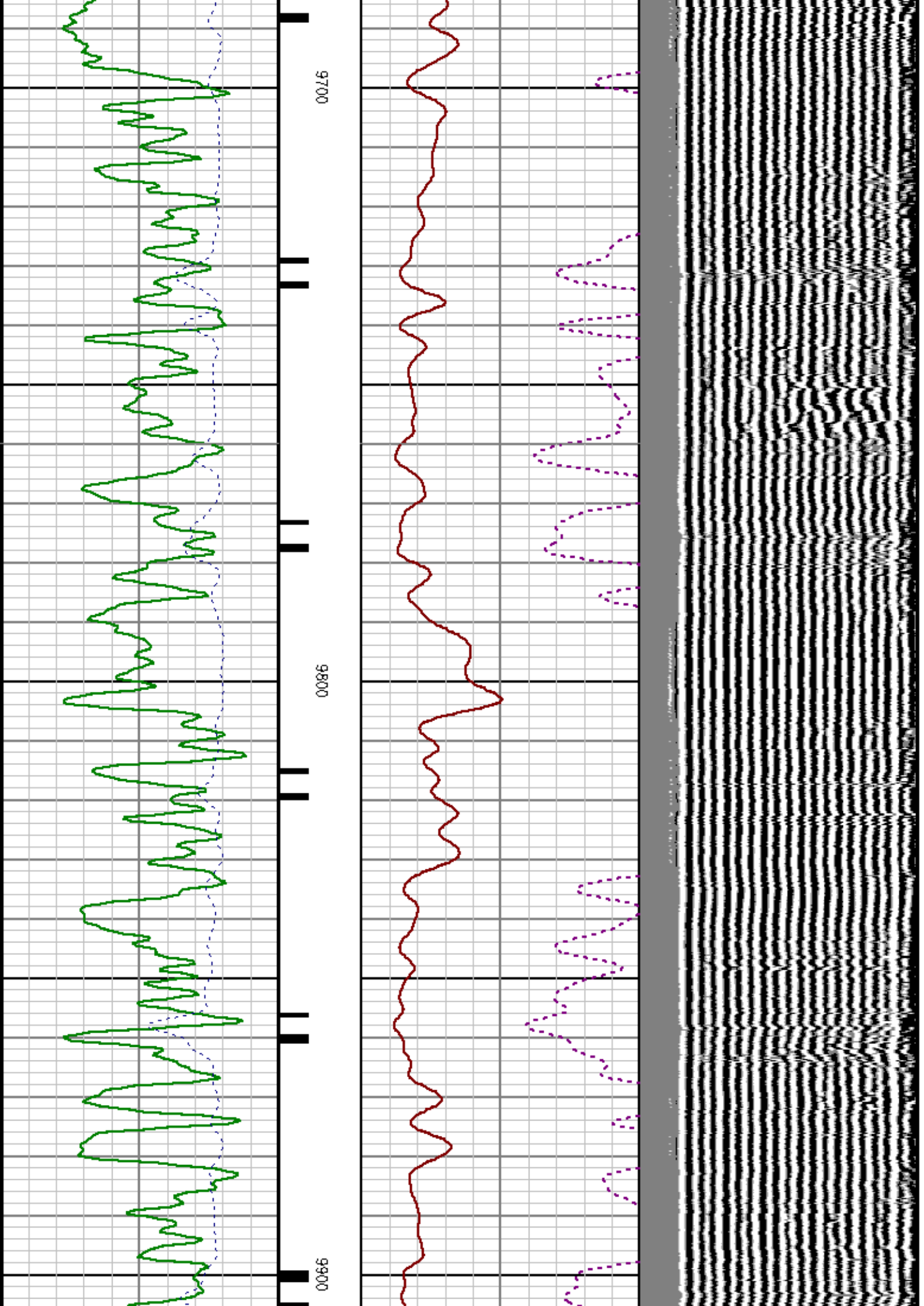


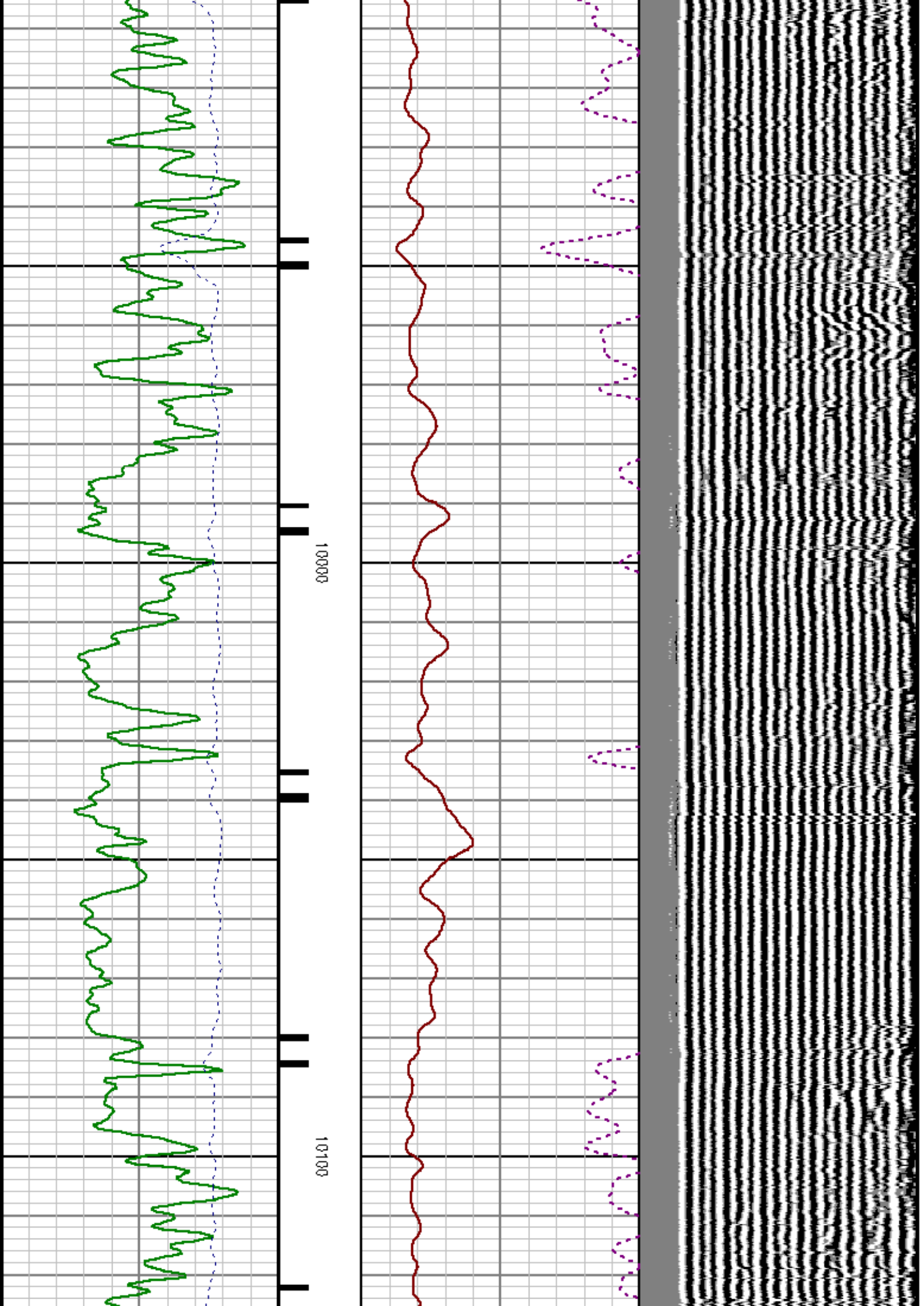


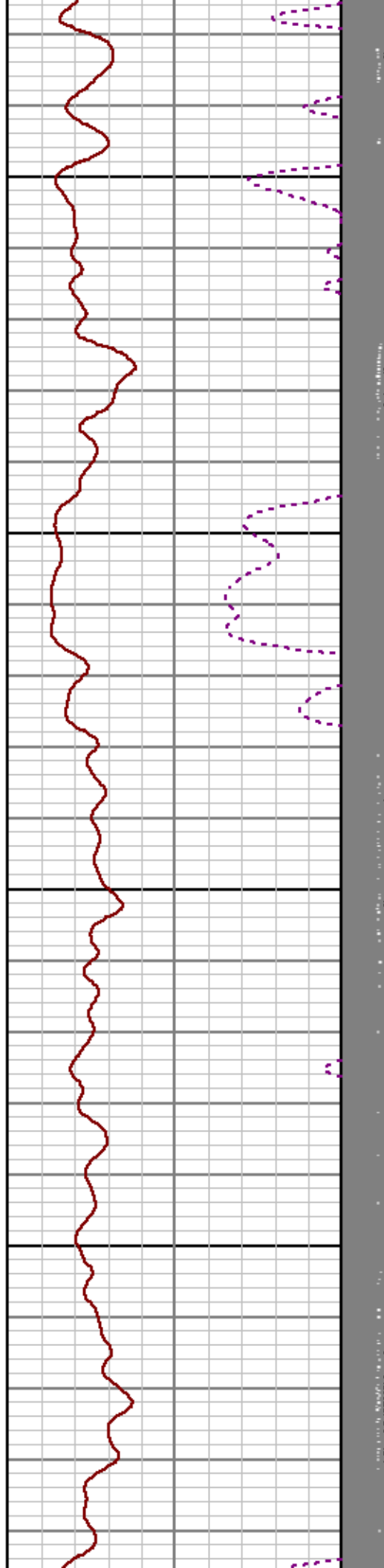
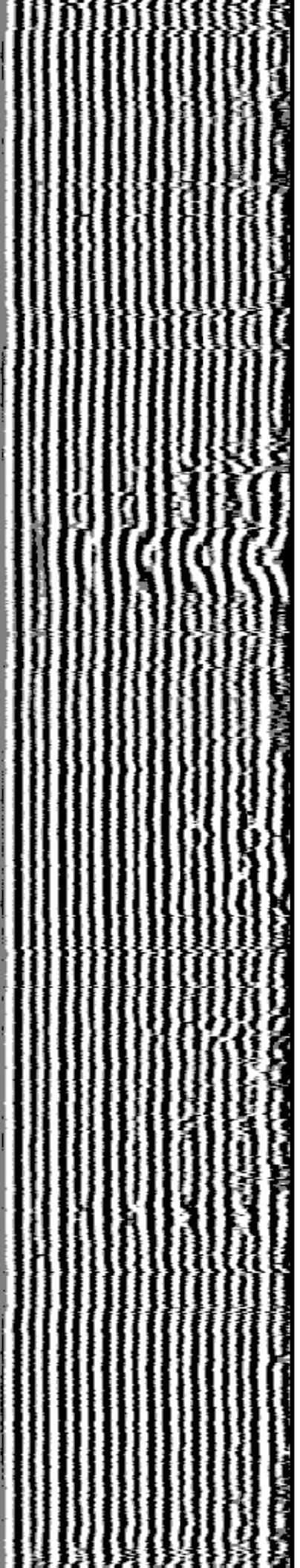






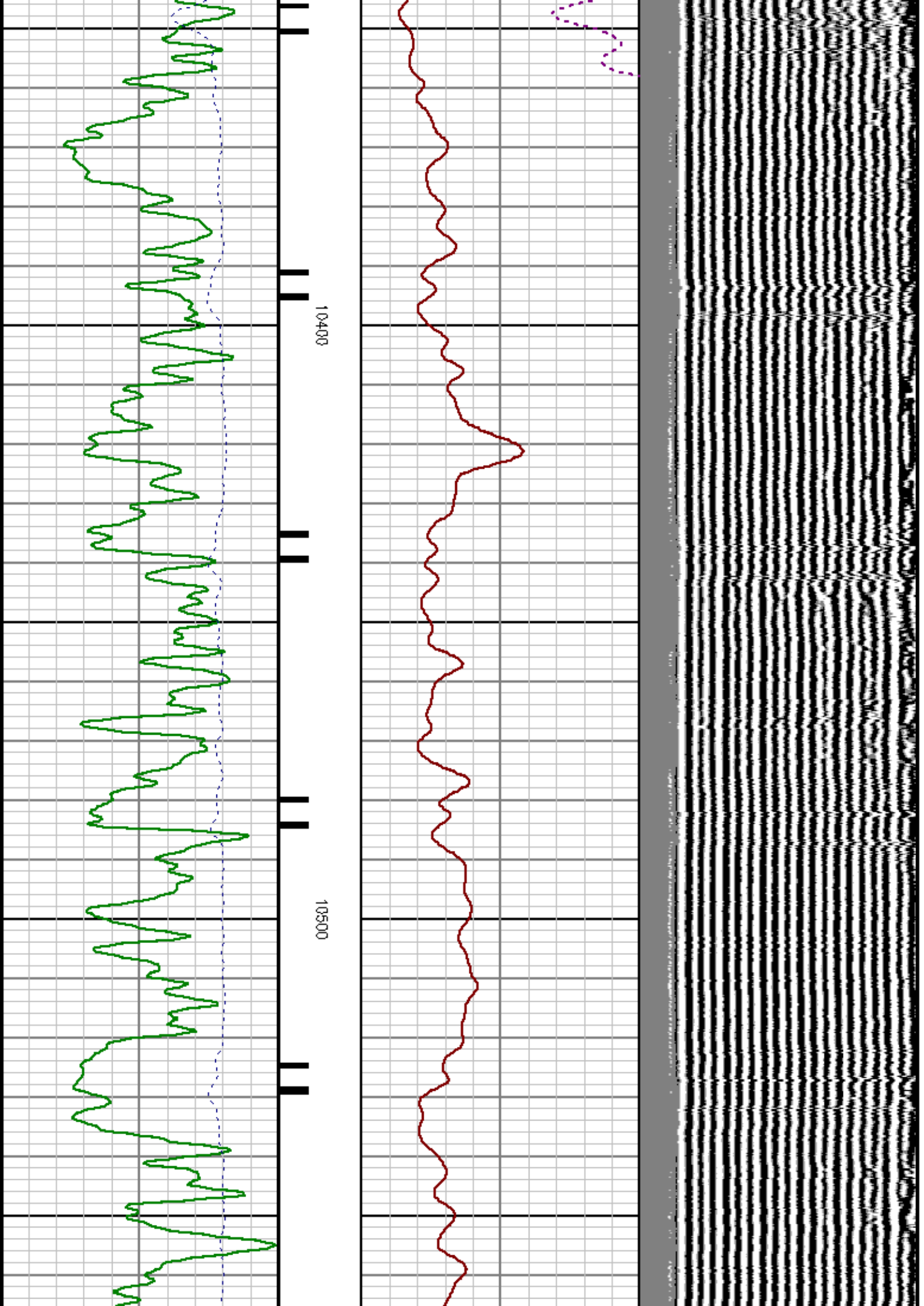


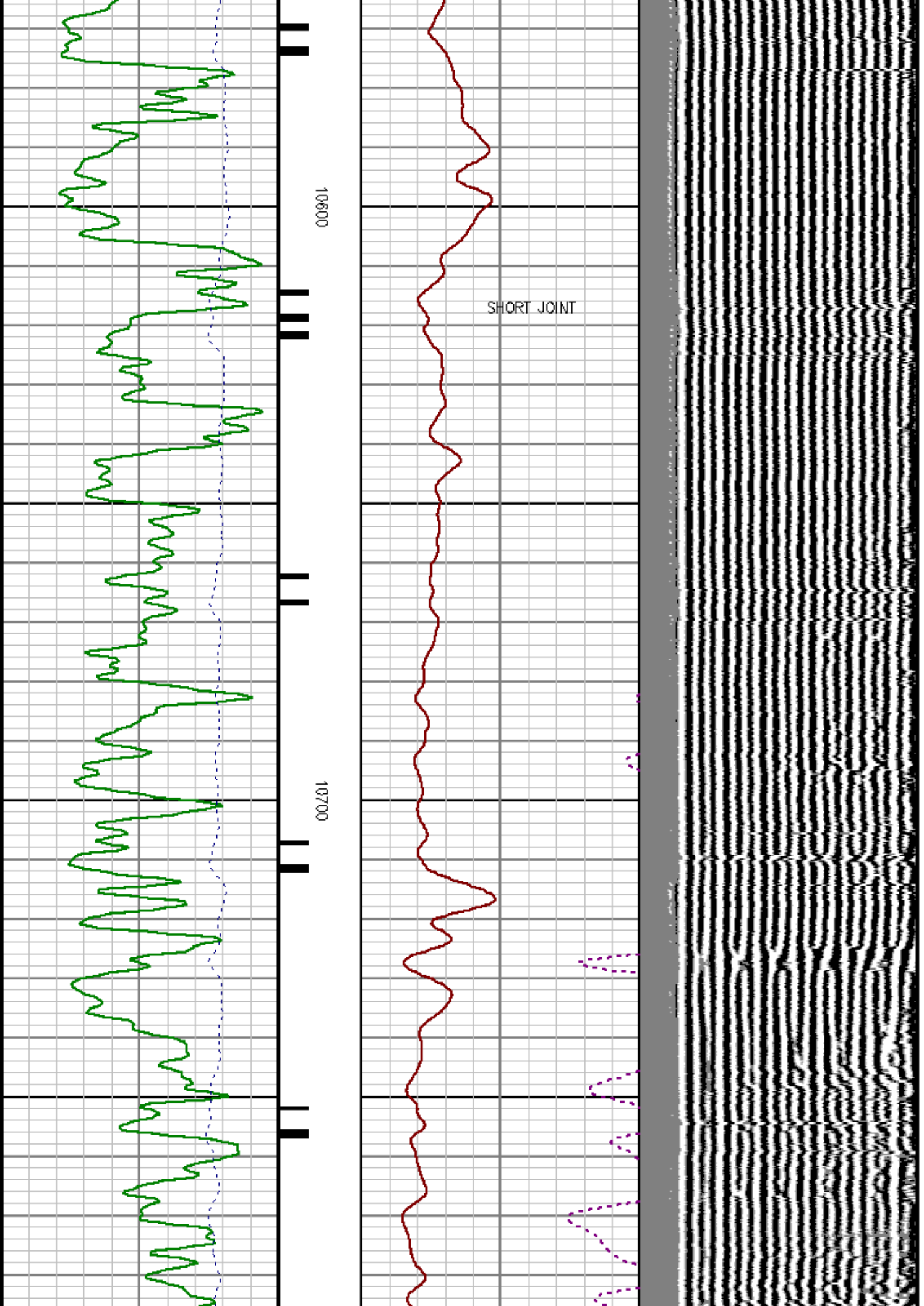


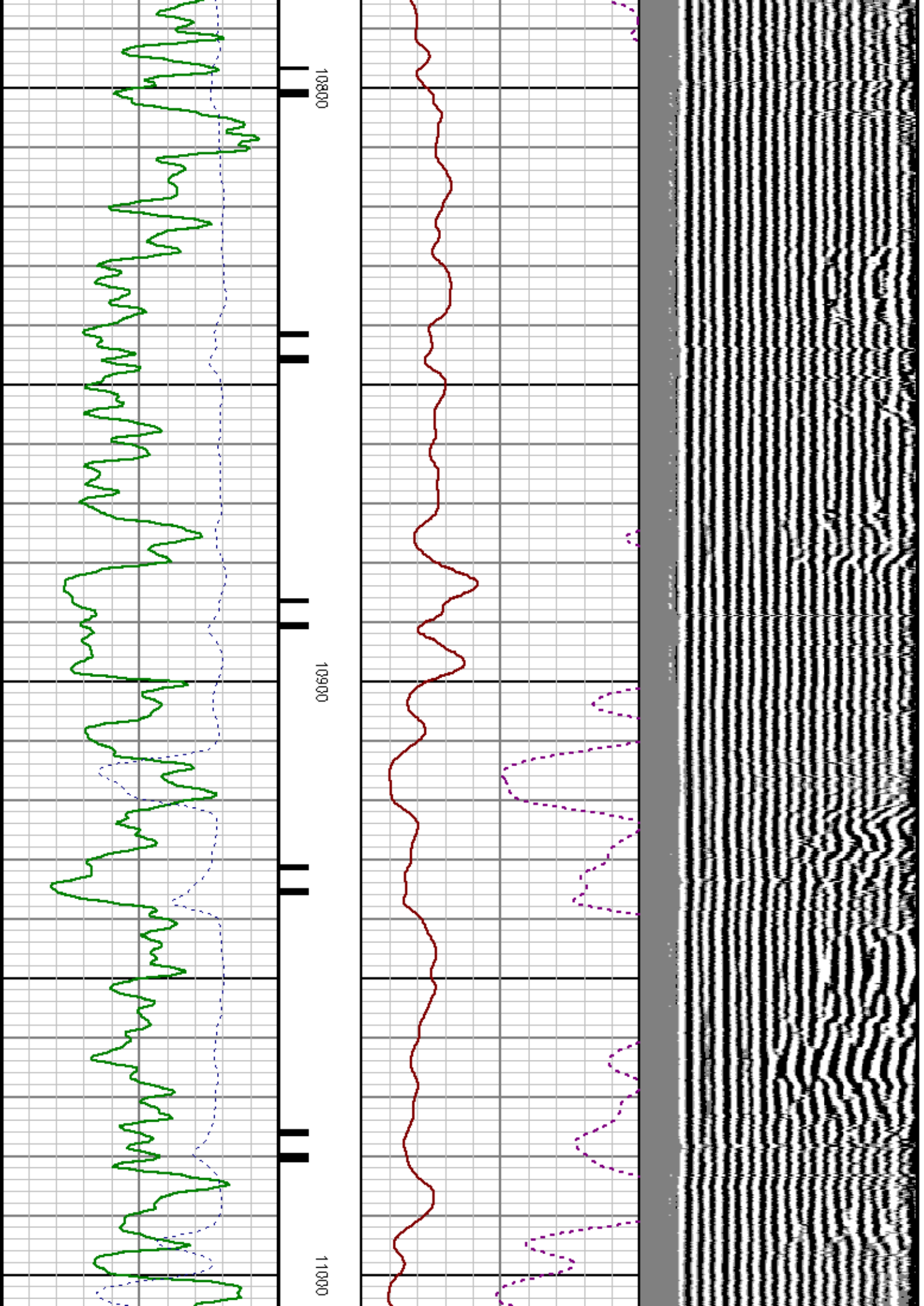


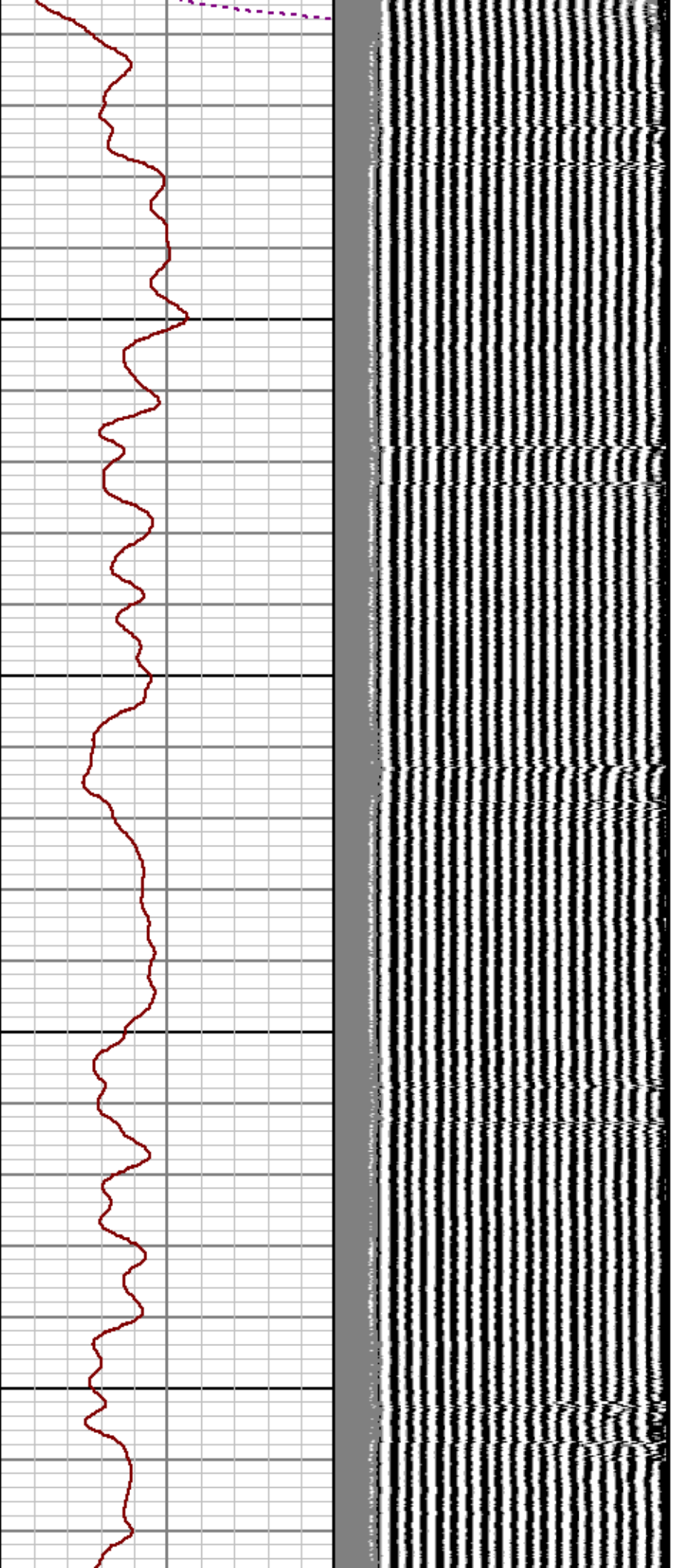
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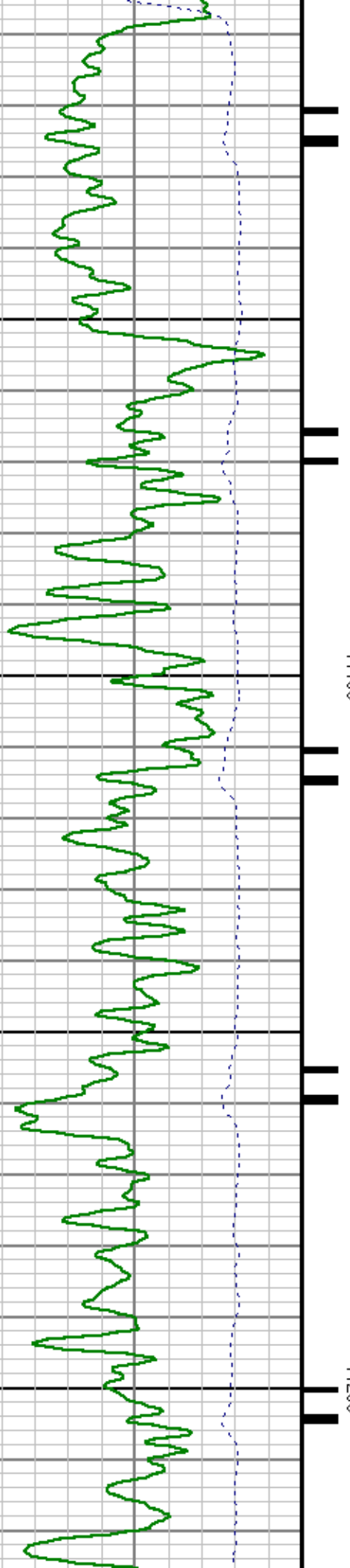


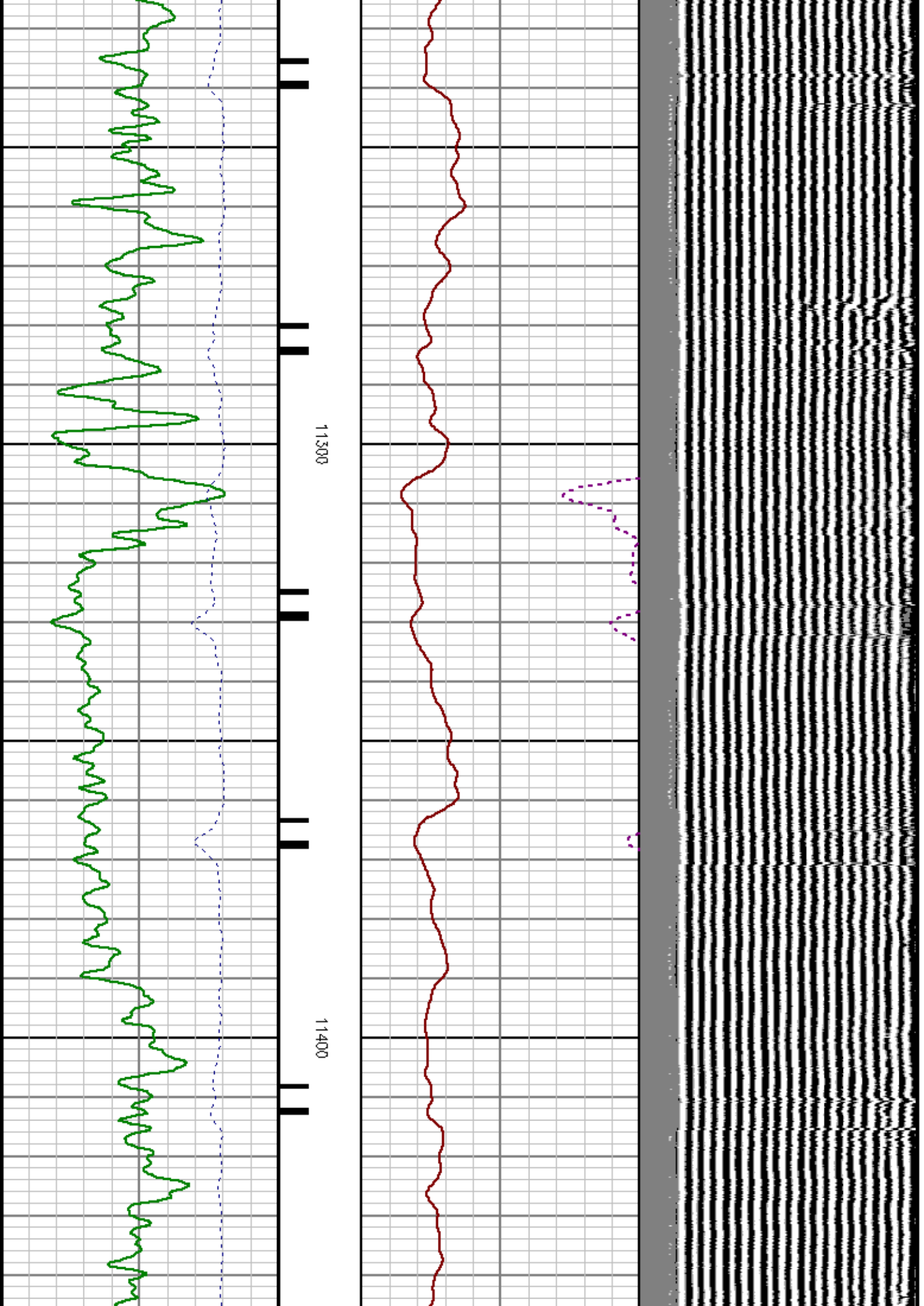


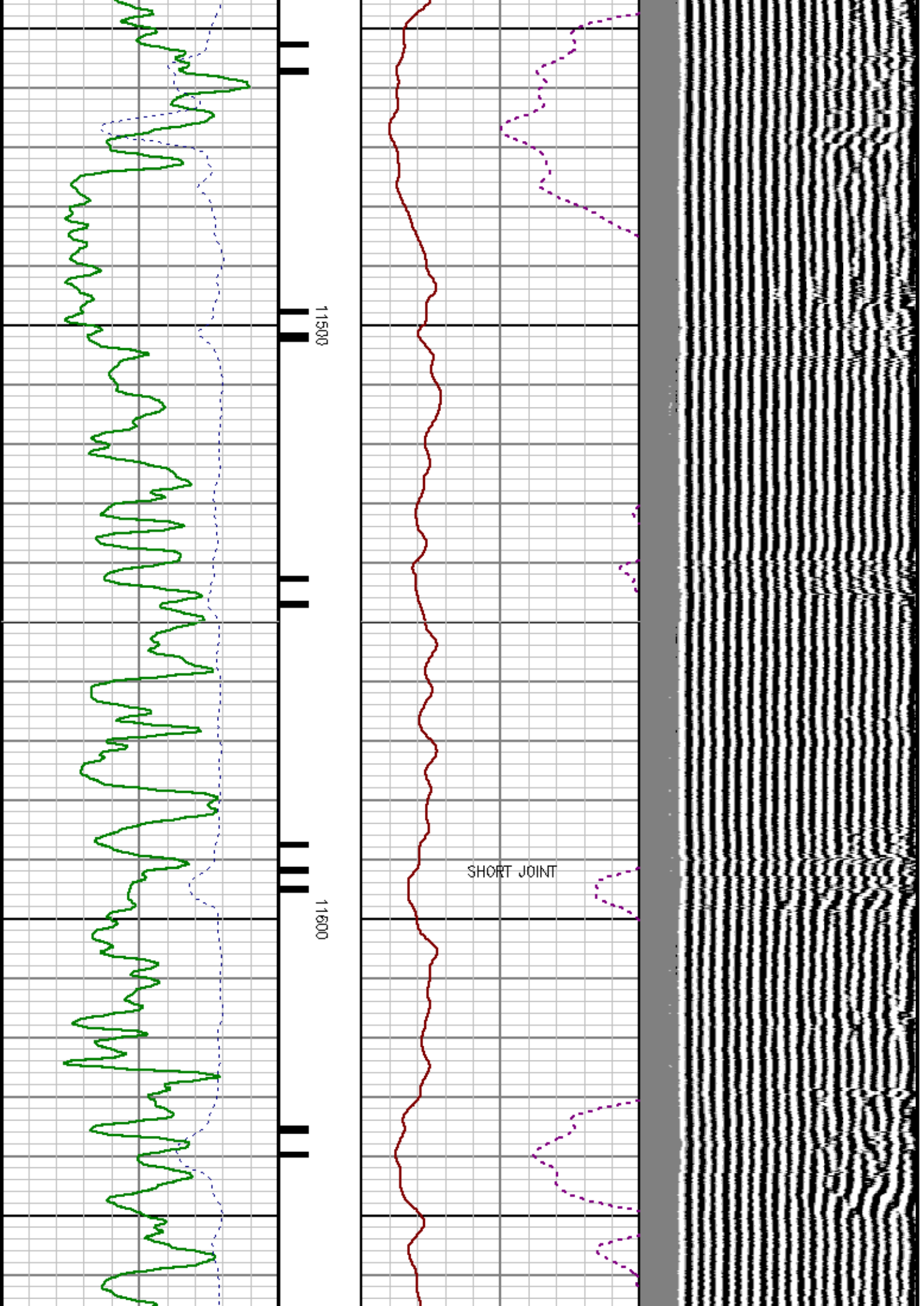


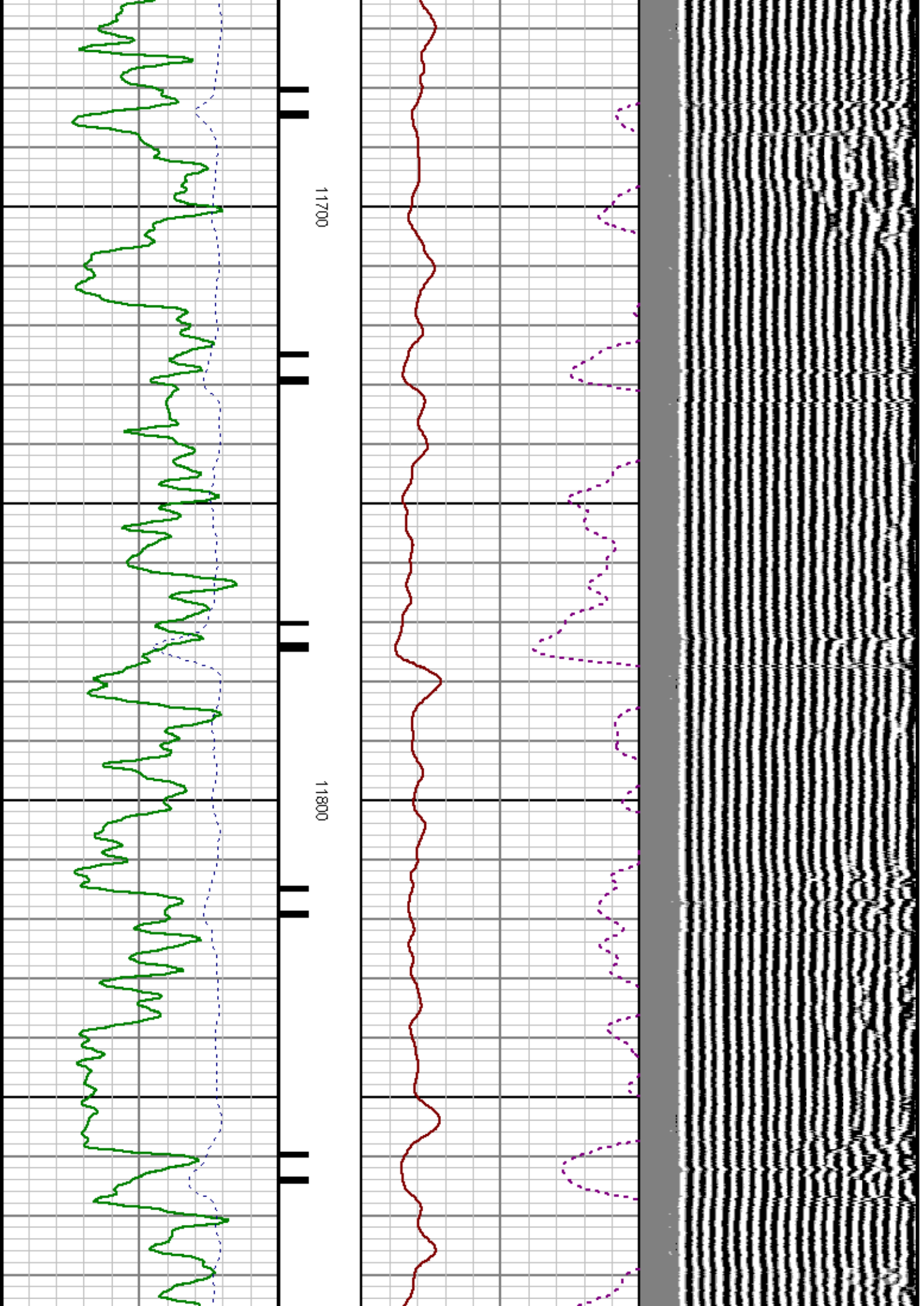
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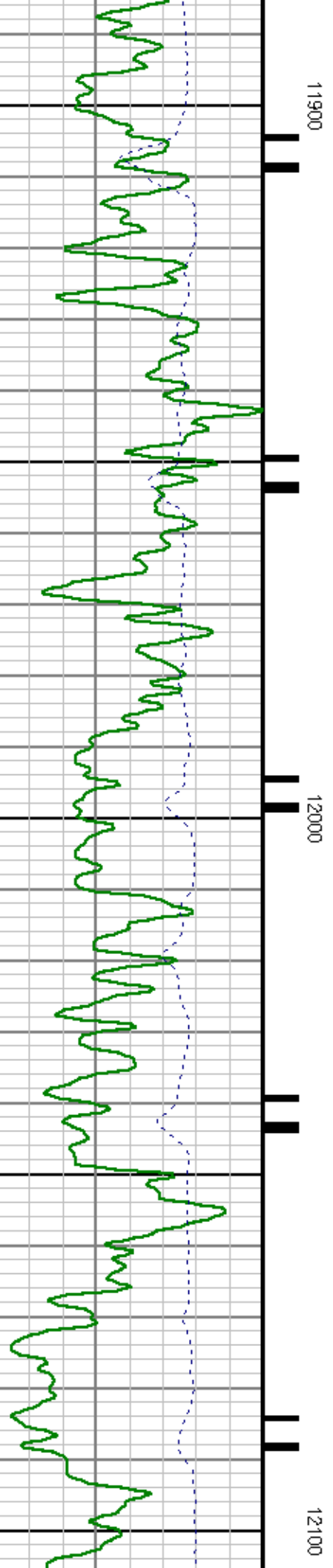
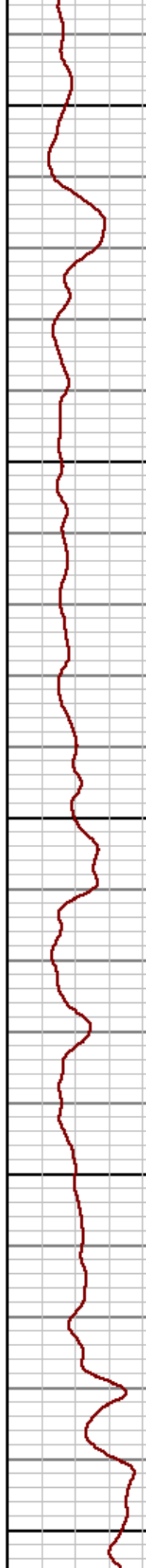
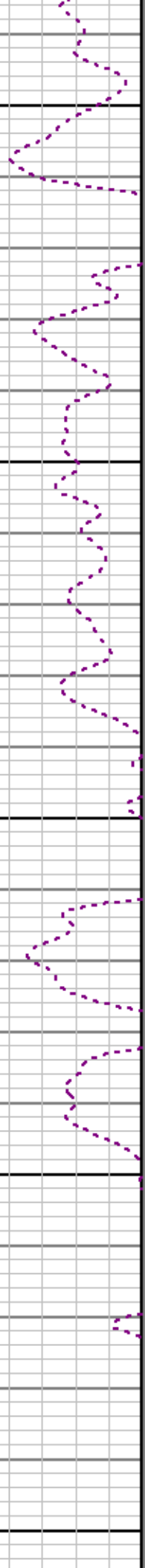
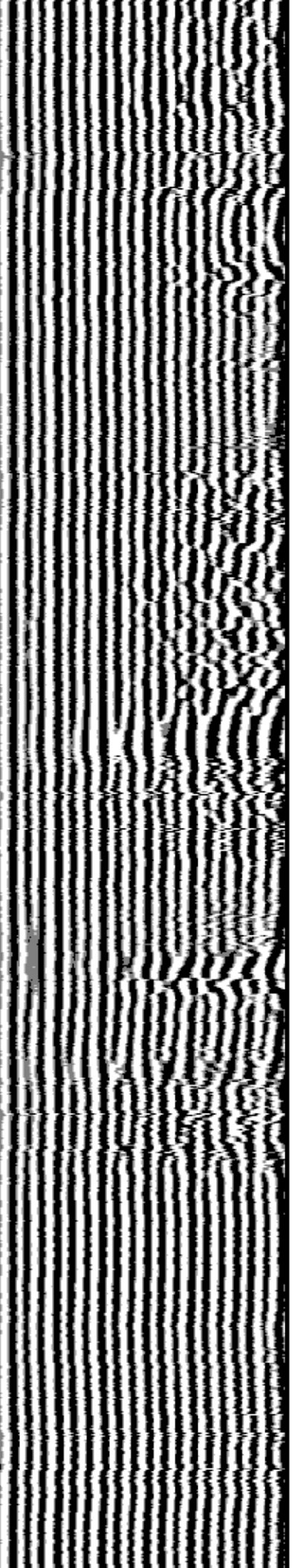
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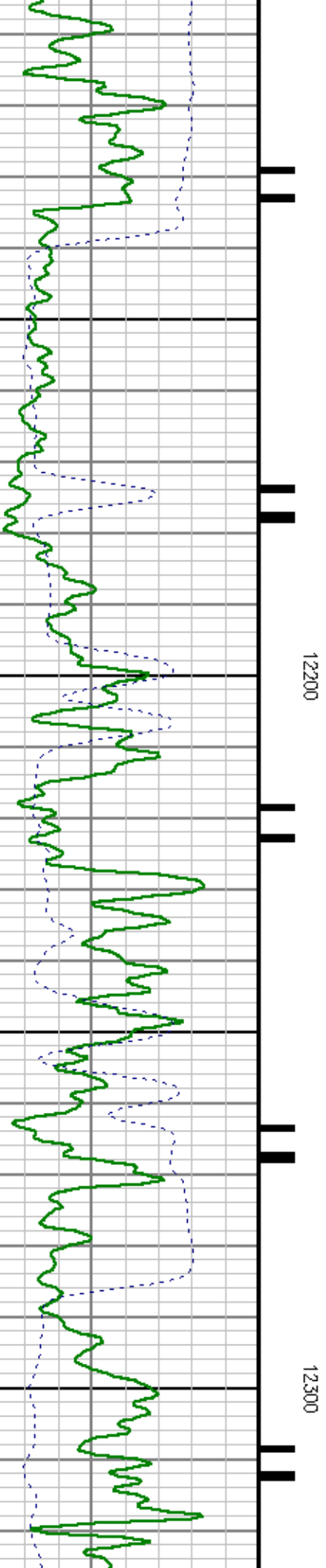
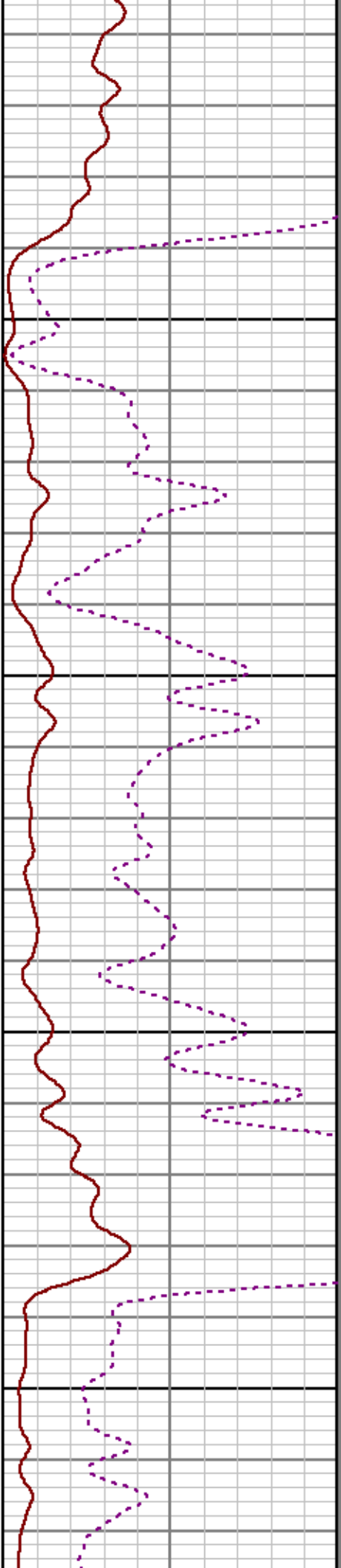
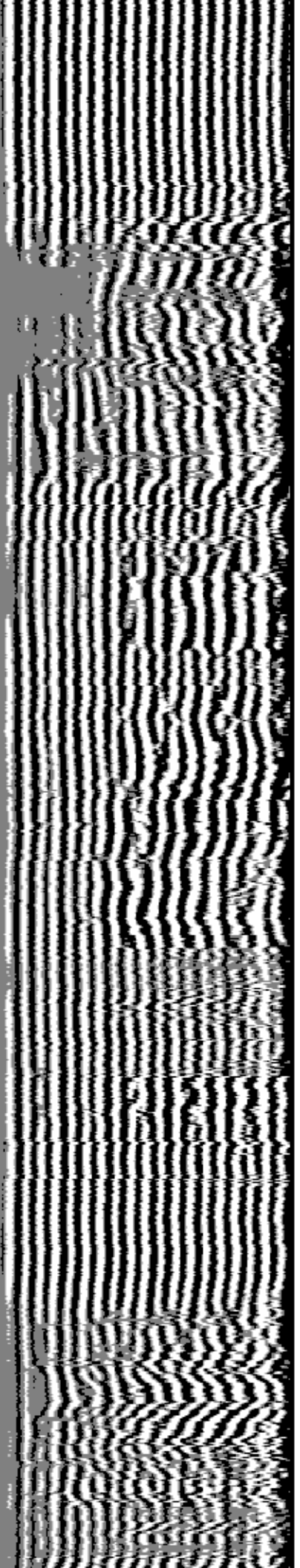


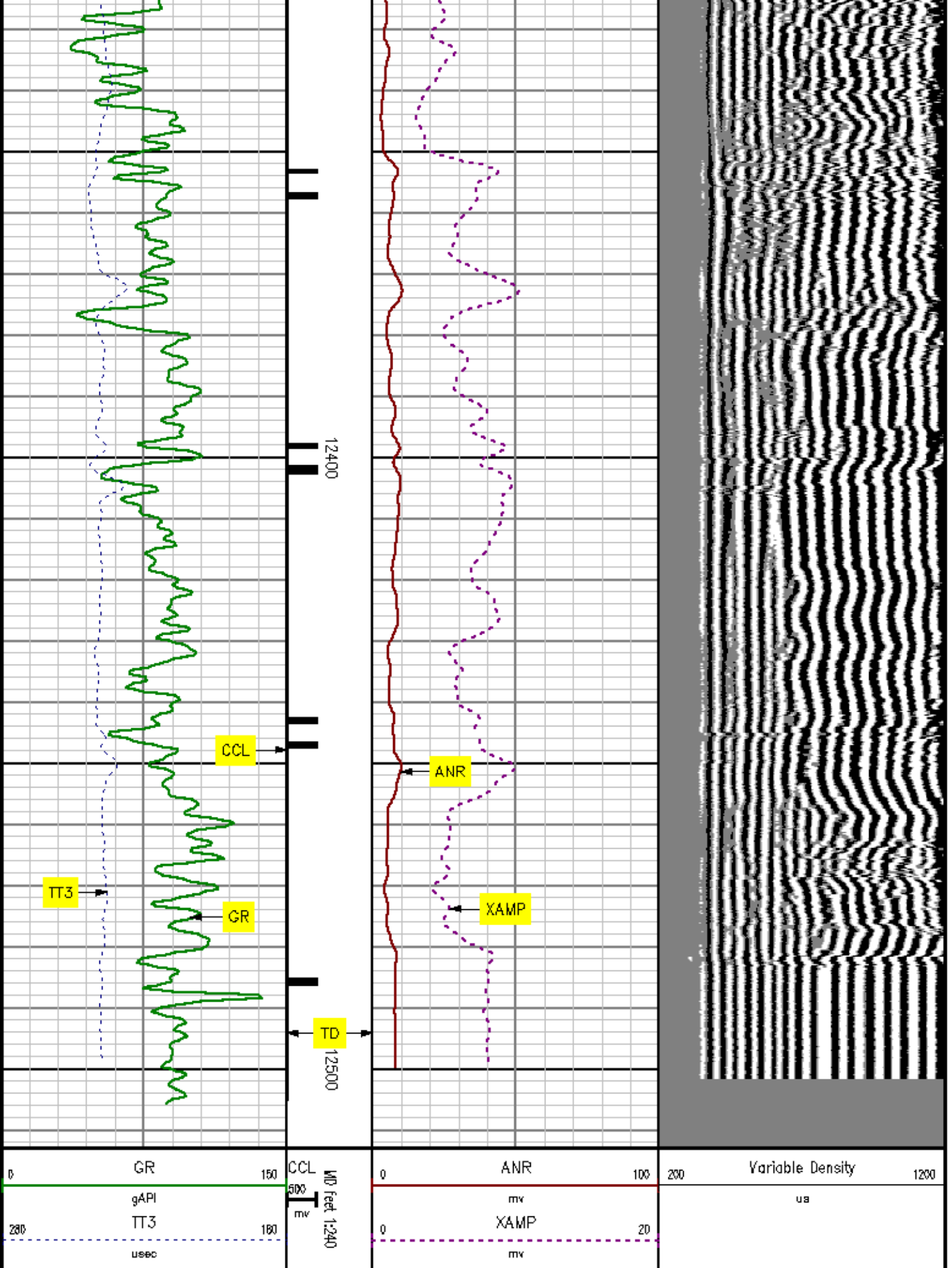












REPEAT SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	12218.000	12511.000
RAL	Amp Gate Start Near	197.754	usec	12218.000	12511.000
RAL	Amp Gate Start Radial	197.754	usec	12218.000	12511.000
RAL	Amp Gate Width Far	25.000	usec	12218.000	12511.000
RAL	Amp Gate Width Near	25.000	usec	12218.000	12511.000
RAL	Amp Gate Width Radial	25.000	usec	12218.000	12511.000
RAL	casing od	4.500	inches	12218.000	12511.000
RAL	casing wt	15.100	lbm/ft	12218.000	12511.000
RAL	FB Start Far	289.263	usec	12218.000	12511.000
RAL	FB Start Near	172.754	usec	12218.000	12511.000
RAL	FB Start Radial	172.754	usec	12218.000	12511.000
RAL	FB Thresh Far	15.000	mv	12218.000	12511.000
RAL	FB Thresh Near	10.000	mv	12218.000	12511.000
RAL	FB Thresh Radial	10.000	mv	12218.000	12511.000
RAL	Fluid Travel Time	200.000	usec/ft	12218.000	12510.655

DEPTH OFFSETS (for Acquired Curves)

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

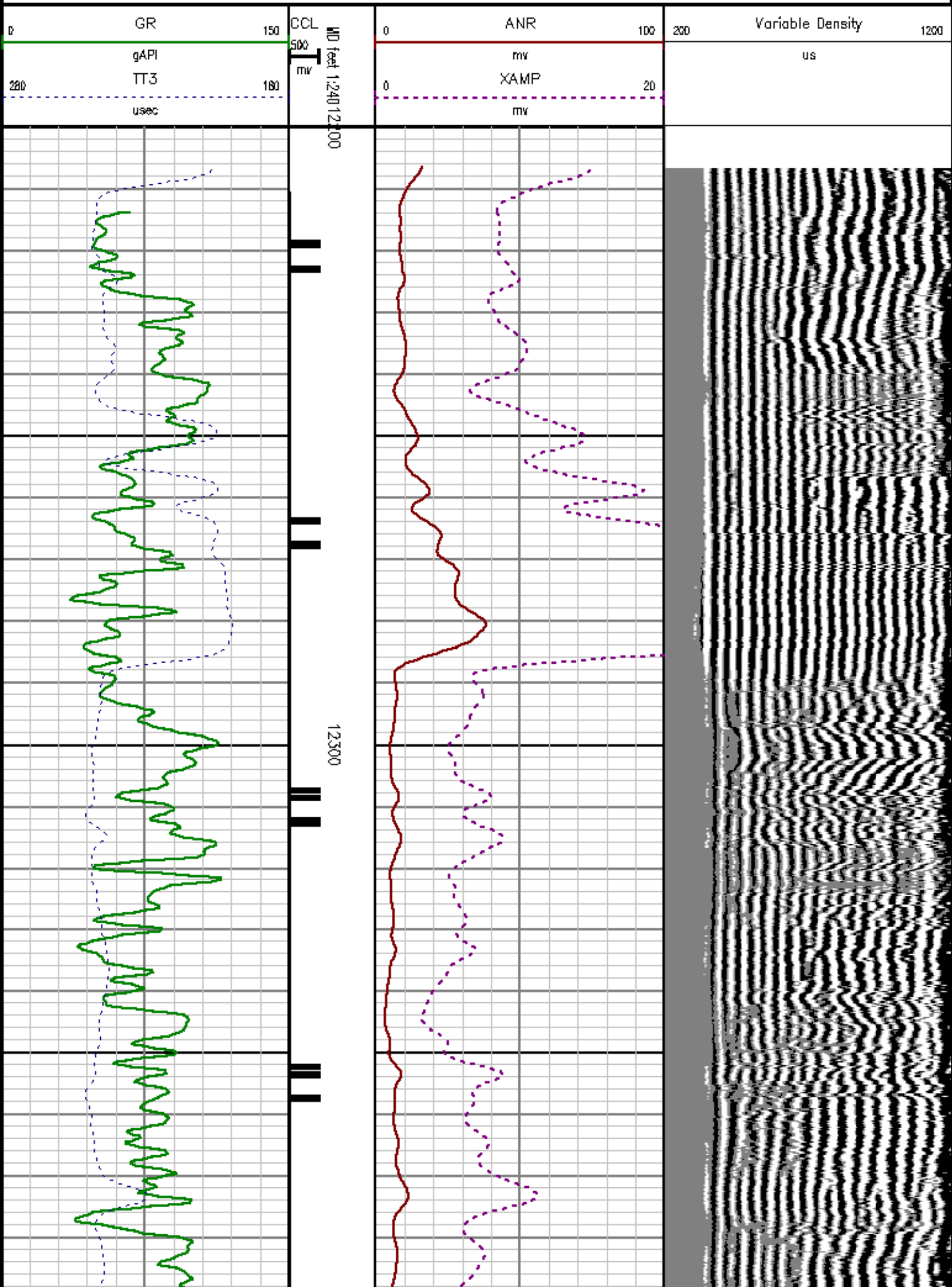
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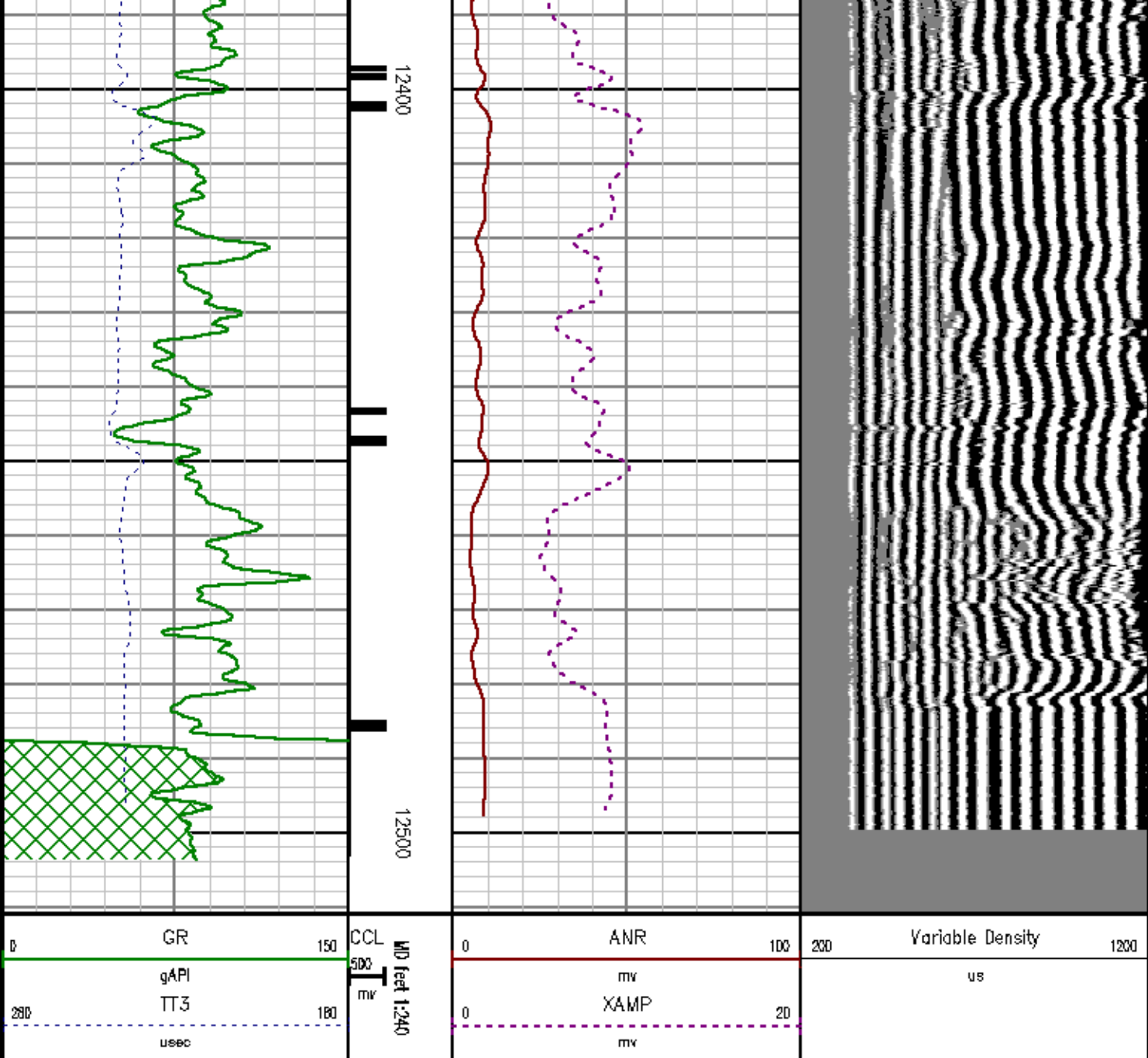
Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

Well : PCU 197-34A7

File Name : d:\welldata\7rad\repeat.xtf





Shop Calibration: C:\case\calver\RALSHP\134N3_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Nov 15 00:46:28 2010 TOOL SERIES: 1426XA ASSET: 134 SEQ: N3

Tool Delay [usec]	-54.00	Tank OD in	5.50	Tank Wt lbm/ft	15.50	Tank ID in	4.95
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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	216	216	30	166	25	-0.162	100.00	0.23
3 Ft. Receiver	217	216	30	166	25	0.445	100.00	0.23
5 Ft. Receiver	327	325	30	237	25	0.251	150.00	0.25
Radial #1	217	216	30	166	25	0.460	100.00	0.23
Radial #2	217	216	30	166	25	-0.074	100.00	0.23
Radial #3	217	216	30	166	25	-0.033	100.00	0.23
Radial #4	216	216	30	166	25	-0.445	100.00	0.23
Radial #5	215	216	30	166	25	-0.276	100.00	0.23
Radial #6	215	216	30	166	25	-0.036	100.00	0.23
Radial #7	215	216	30	166	25	0.672	100.00	0.23
Radial #8	219	216	30	166	25	0.360	100.00	0.23

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\134N3 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Nov 15 00:47:39 2010 TOOL SERIES: 1426XA ASSET: 134 SEQ: N3

Tool Delay [usec]	-54.00	Casing OD in	4.50	Casing Wt lbm/ft	15.10	Casing ID in	3.83
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RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	0.035	0.000	1.00	100.000
3 Ft. Receiver	162	25	-0.280			
5 Ft. Receiver	271	25	-1.009			
Radial #1	162	25	-0.433			
Radial #2	162	25	-0.432			
Radial #3	162	25	-0.388			
Radial #4	162	25	-0.323			
Radial #5	162	25	-0.369			
Radial #6	162	25	-0.466			
Radial #7	162	25	-0.534			
Radial #8	162	25	-0.510			

GAMMA RAY

Calibration File: C:\case\calver\GR\457N1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Nov 01 10:53:24 2010 TOOL SERIES: 1426XA ASSET: 457 SEQ: N1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	96.44	334.53	0.777	74.94	259.94	185.00

Verification File: C:\case\calver\GR\457N1.VP

PRIMARY LOG VERIFICATION						
DATE/TIME PERFORMED:	Mon Nov 01 10:54:42 2010	TOOL SERIES:	1426XA	ASSET:	457	SEQ: N1
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	93.89	334.58	0.777	72.80	259.97	187.18

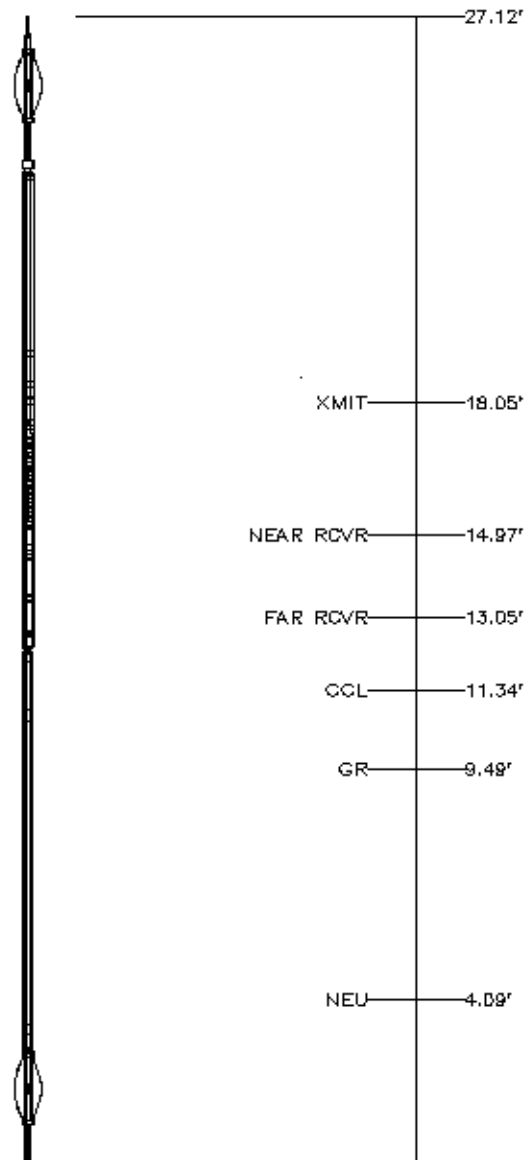
TOOL DIAGRAM

OTA SHORT CABLE HEAD	
CENTRALIZER	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

PROBE 2 3/4 DUAL RECEIVER RADII (1426XA)



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	8.48' CCL

CENTRALIZER	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb



Total Length: 27.12'
Total Weight: Not Available
Max Diameter: 0' 3.12"

0.00'

 Baker Atlas 	Company	EXXONMOBIL PRODUCTION COMPANY		File No:	CH024754
	Well	PCU 197-34A7		API No:	05103115380000
	Field	PICEANCE CREEK			
	County	RIO BLANCO	State	COLORADO	
	Location:	1702' FSL & 109' FWL		Elevations	
				KB 8518 ft	
				DF 8517 ft	
				GL 8483 ft	
	SEC: 34	TWP: 15	RGE: 87W		