



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	EXXONMOBIL PRODUCTION COMPANY	
CH0372025	Well	POU 197-36A5	
API No.	Field	PICEANCE CREEK UNIT	
05103111840000	County	RIO BLANCO	State
			COLORADO

Location: 1849' FSL & 2813' FRL	Other Services RPM
SEC: 36 TWP: 19 RGE: 97W	

Permanent Datum Log Measured From Drill Measured From	G.L. Elevation 7114 ft K.B. 30 ft Above P. O. KELLY BISHING
	Elevations KB 7144 ft DF 7143 ft GL 7114 ft

Date	22-JUNE-2011	
Run	ONE	
Service Order	675309	
Depth Driller	13529 ft	
Depth Logger	13488 ft	
Bottom Logged Interval	13488 ft	
Top Logged Interval	8600 ft	
Time Started	20:00	
Time Finished	23:30	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Fluid Solinity	N/A	
Fluid Level	PULL	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	46 fpm	
Maximum Recorded Temperature	N/A	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment	Location	GRAND CRT.03
Recorded By	TIM KAUITT	
Witnessed By	MR. CHUCK GOWER	

- 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.

Borehole Record		
Bit Size	From	To
9.875 in		
8.125 in		

Casing Record				
Size	Weight	Grade	From	To
7 in	28 lbm/ft	P-110	SURFACE	9308 ft
4.5 in	15.1 lbm/ft	P-110	SURFACE	13529 ft

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	MANDREL	1426XA	10154457	CENTRALIZED
1	1	GAMMA RAY	2459XA	10417457	CENTRALIZED

MAIN SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	5799.968	13483.000
RAL	Amp Gate Start Near	197.754	usec	5799.968	13483.000
RAL	Amp Gate Start Radial	197.754	usec	5799.968	13483.000
RAL	Amp Gate Width Far	25.000	usec	5799.968	13483.000
RAL	Amp Gate Width Near	25.000	usec	5799.968	13483.000
RAL	Amp Gate Width Radial	25.000	usec	5799.968	13483.000
RAL	casing od	4.500	inches	5799.968	13483.000
RAL	casing wt	15.100	lbm/ft	5799.968	13483.000
RAL	FB Start Far	289.263	usec	5799.968	13483.000
RAL	FB Start Near	172.754	usec	5799.968	13483.000
RAL	FB Start Radial	172.754	usec	5799.968	13483.000
RAL	FB Thresh Far	10.000	mv	5799.968	13483.000
RAL	FB Thresh Near	4.000	mv	5799.968	13483.000
RAL	FB Thresh Radial	4.000	mv	5799.968	13483.000
RAL	Fluid Travel Time	200.000	usec/ft	5799.968	13482.937

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					

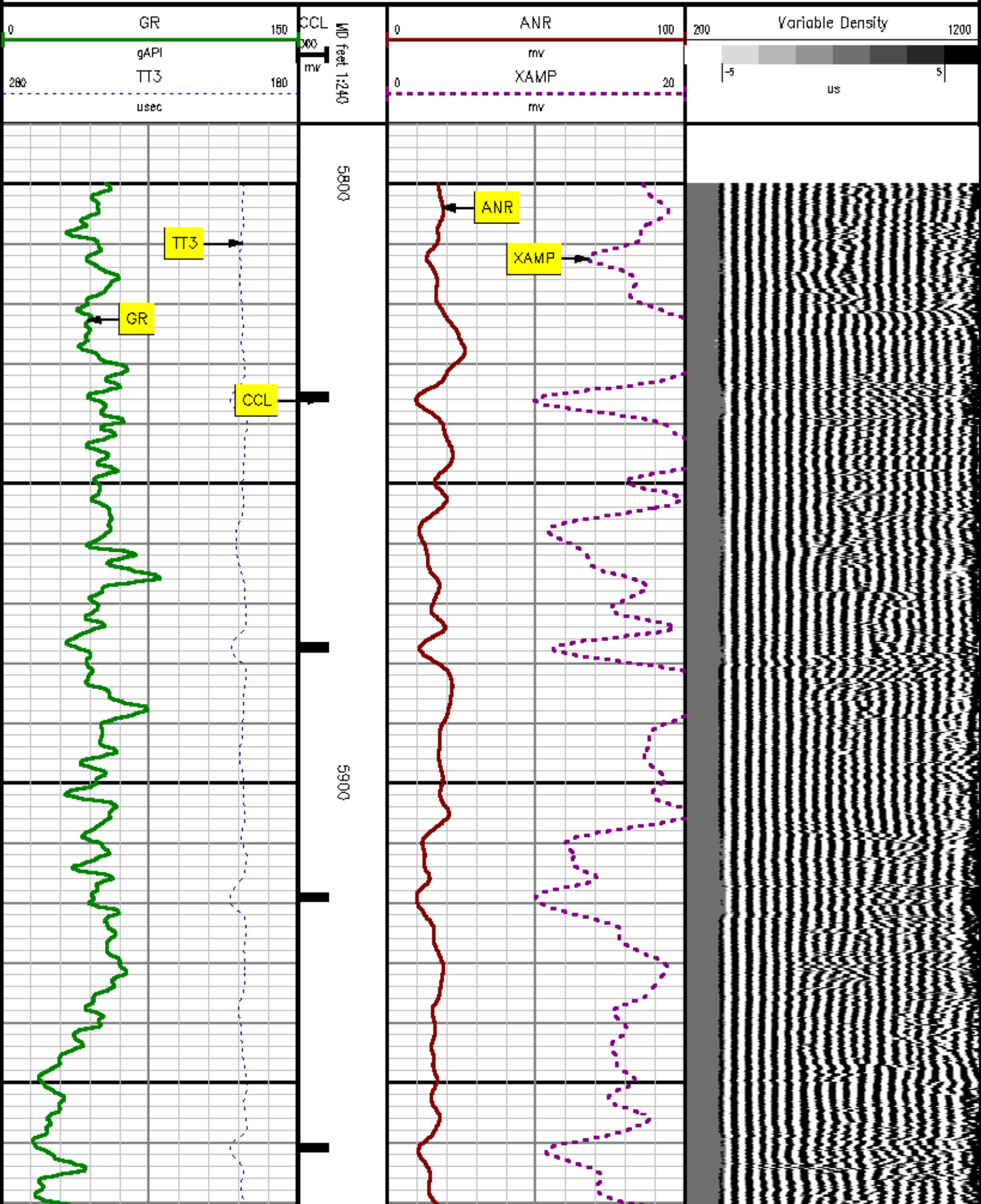
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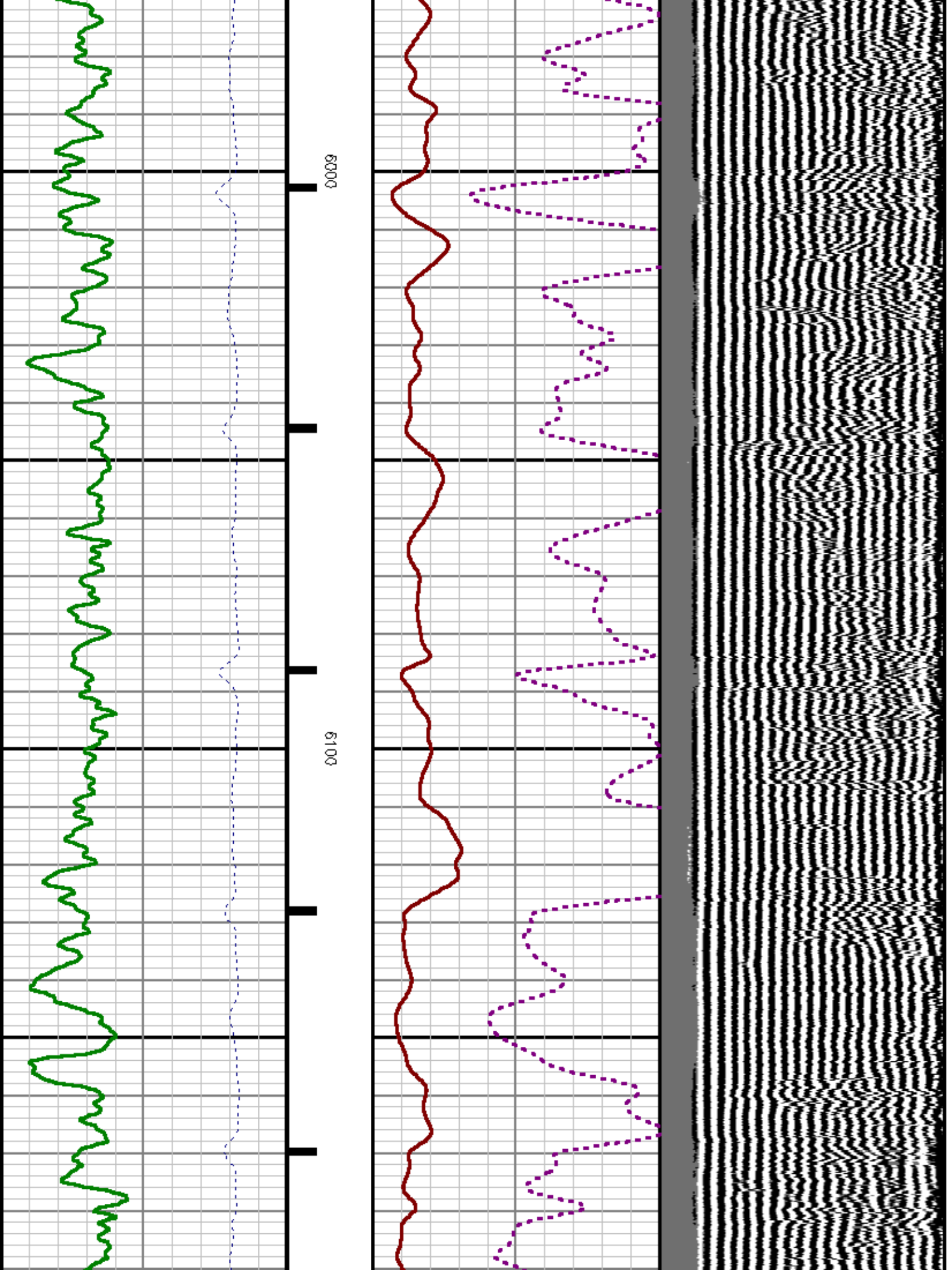
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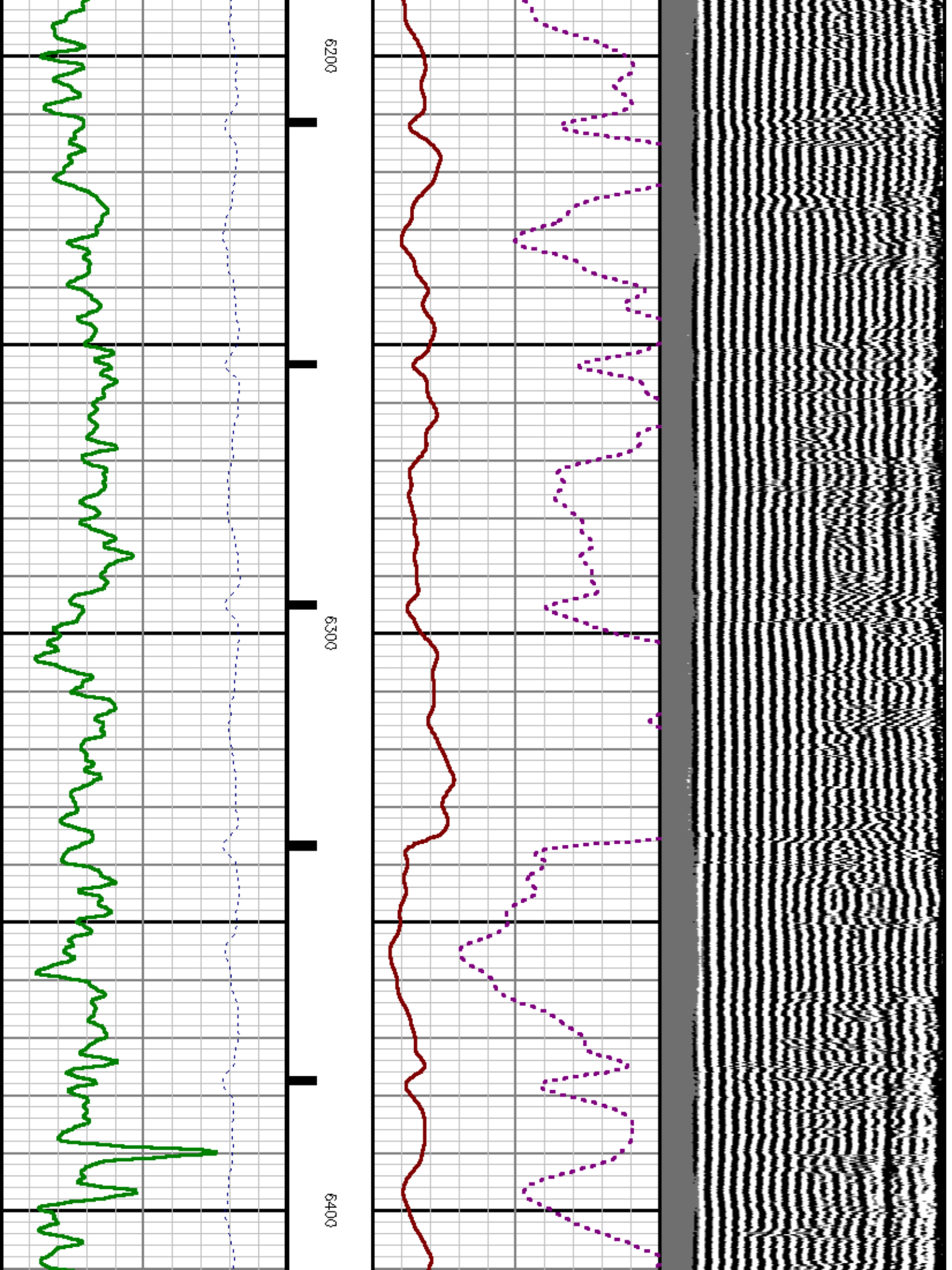
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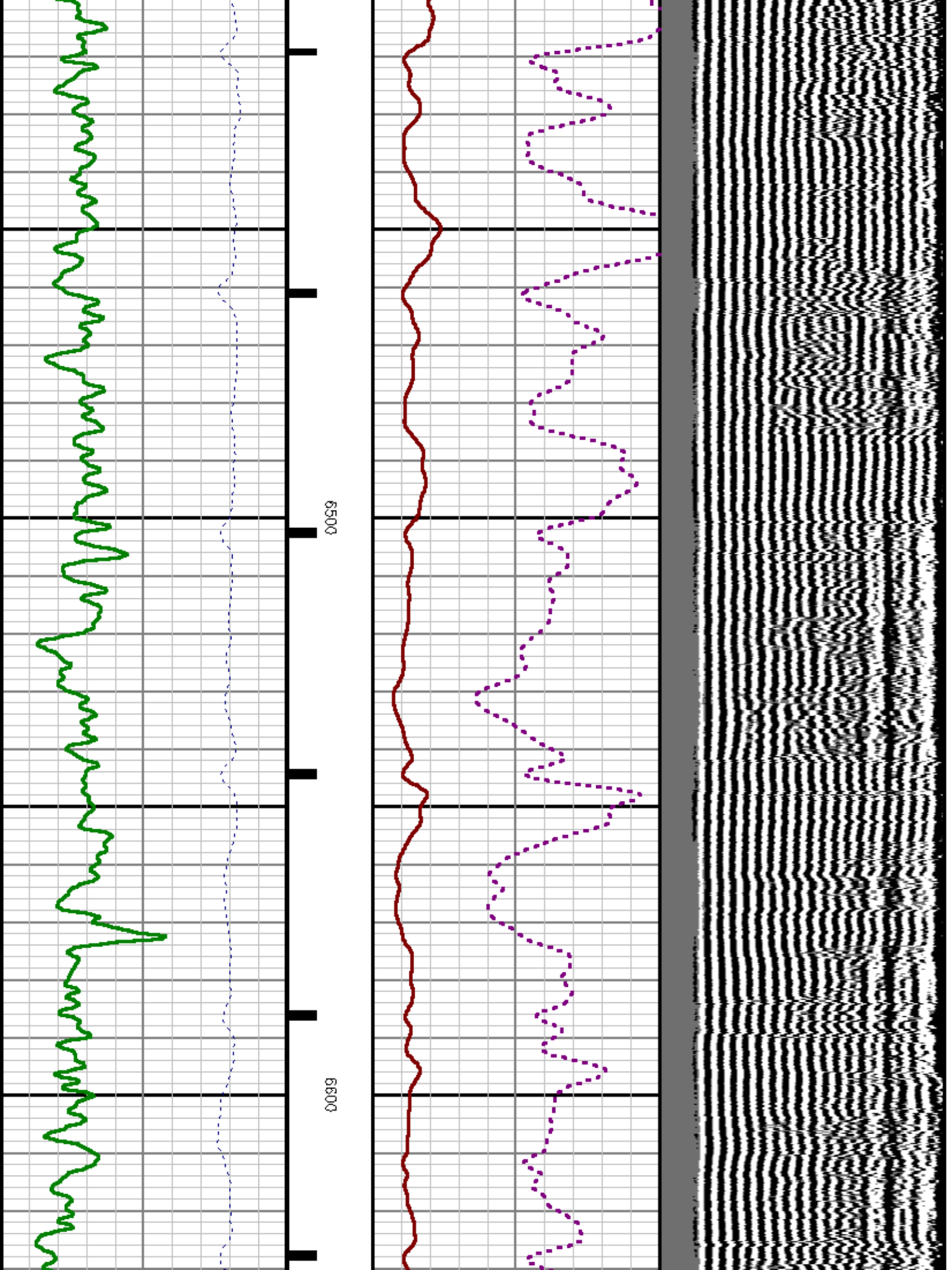
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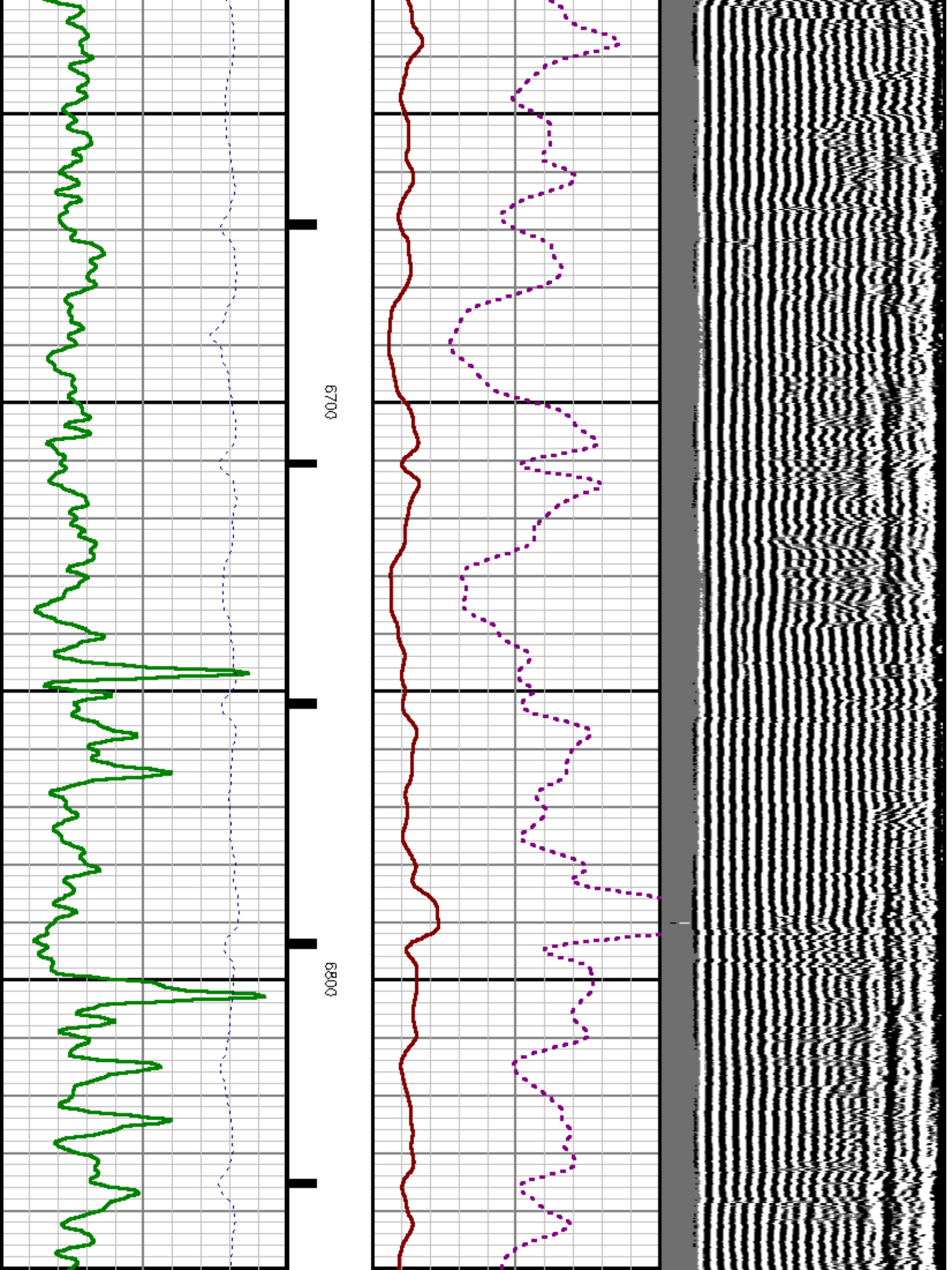
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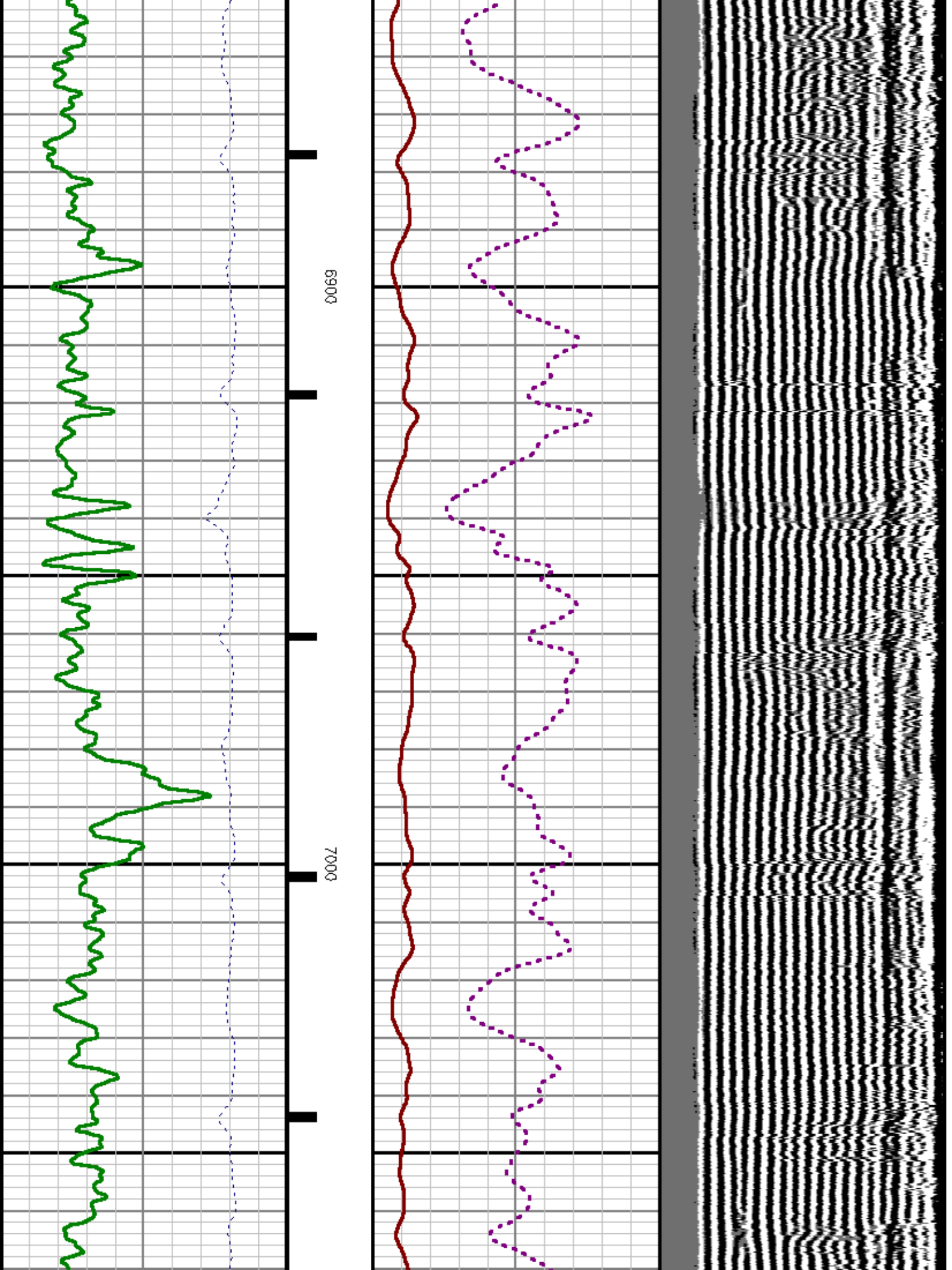


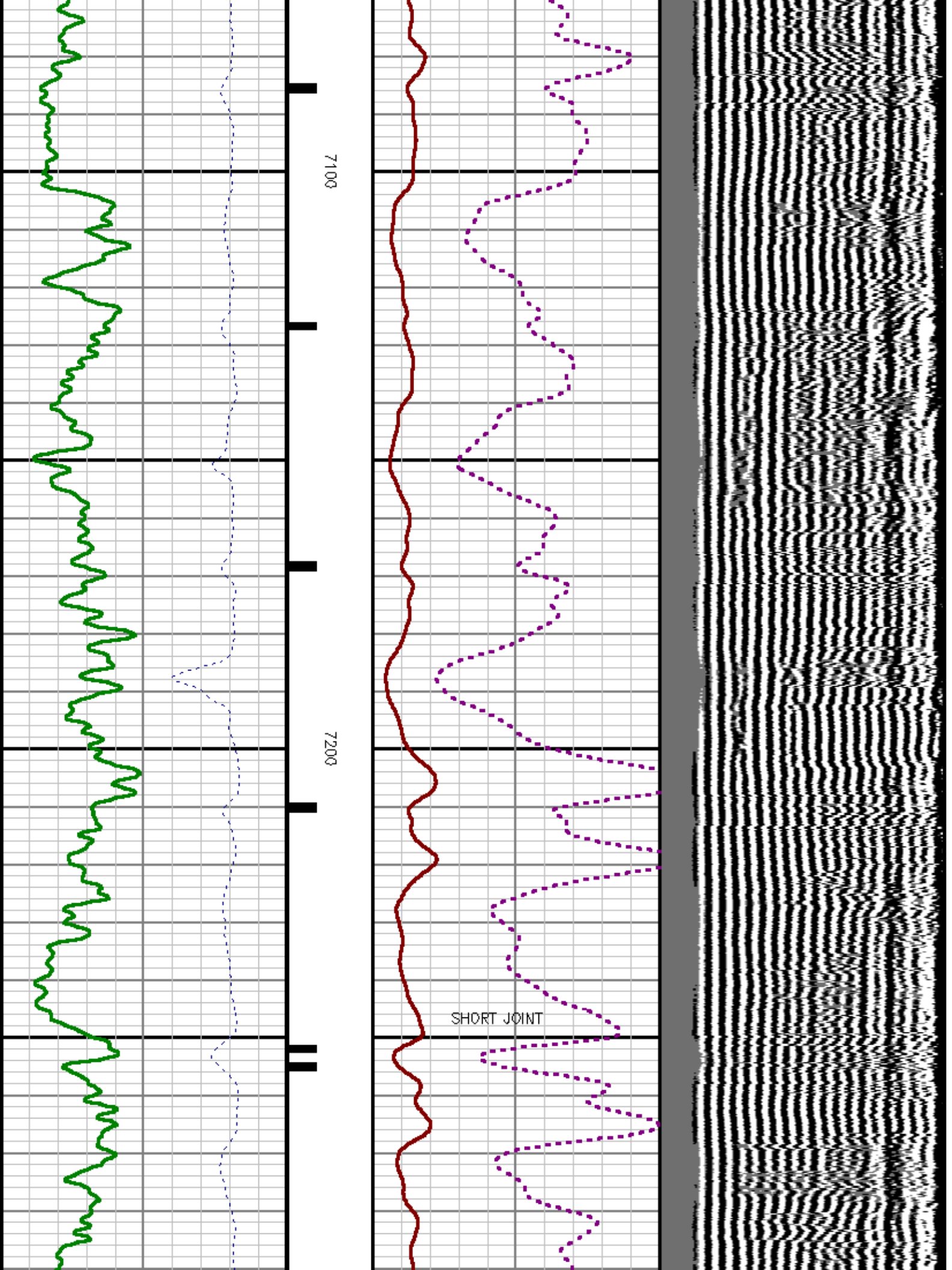


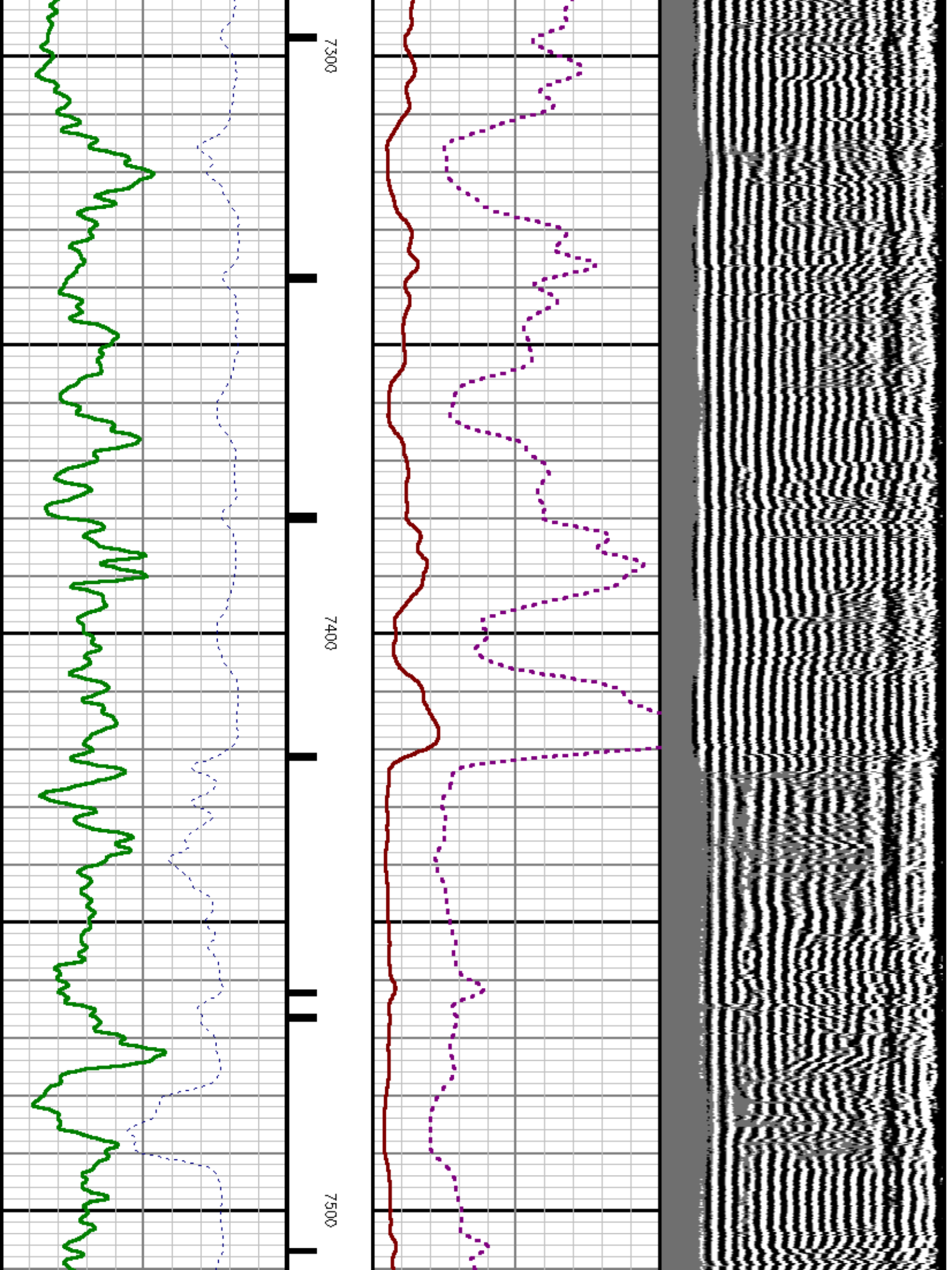


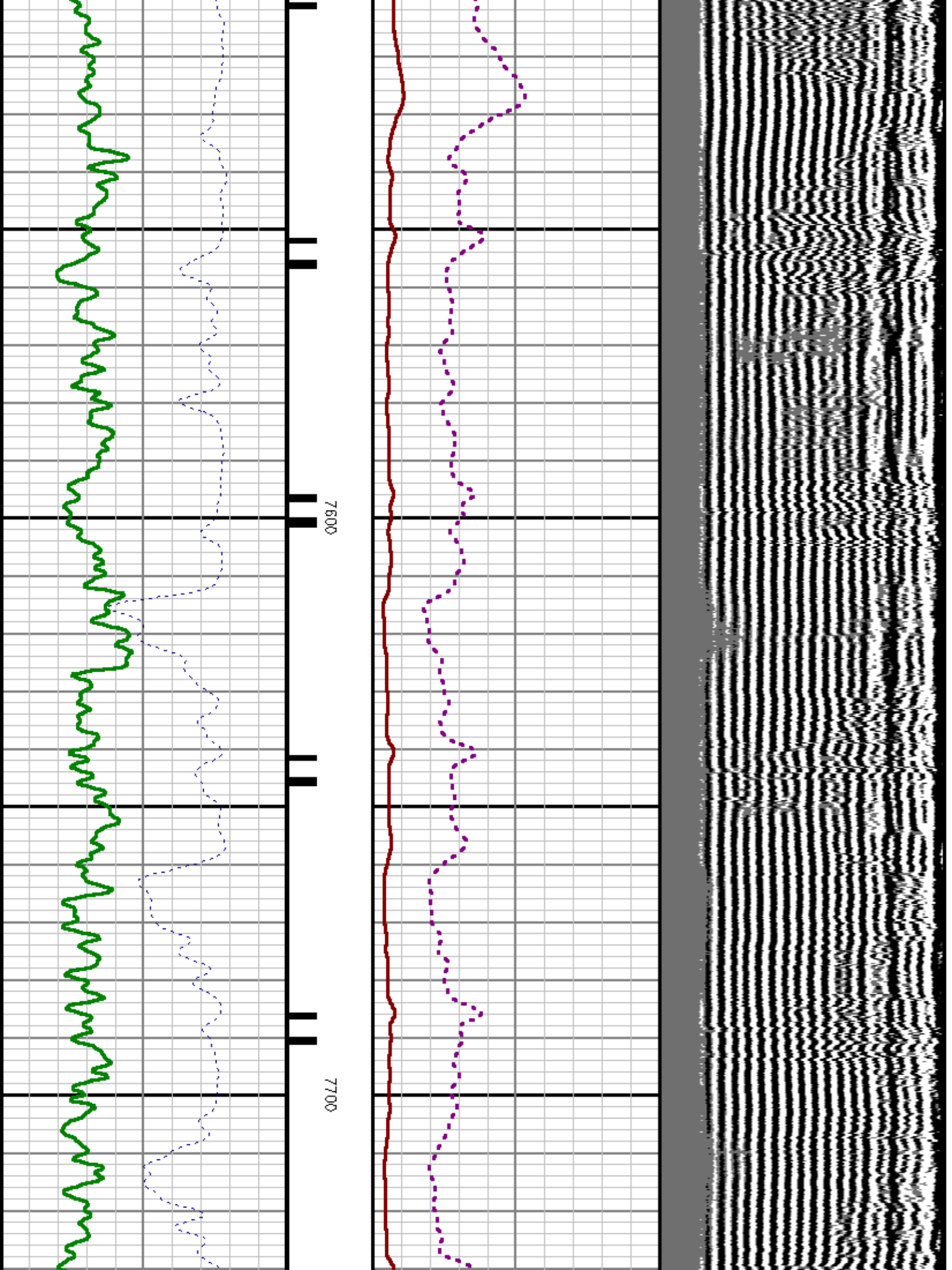


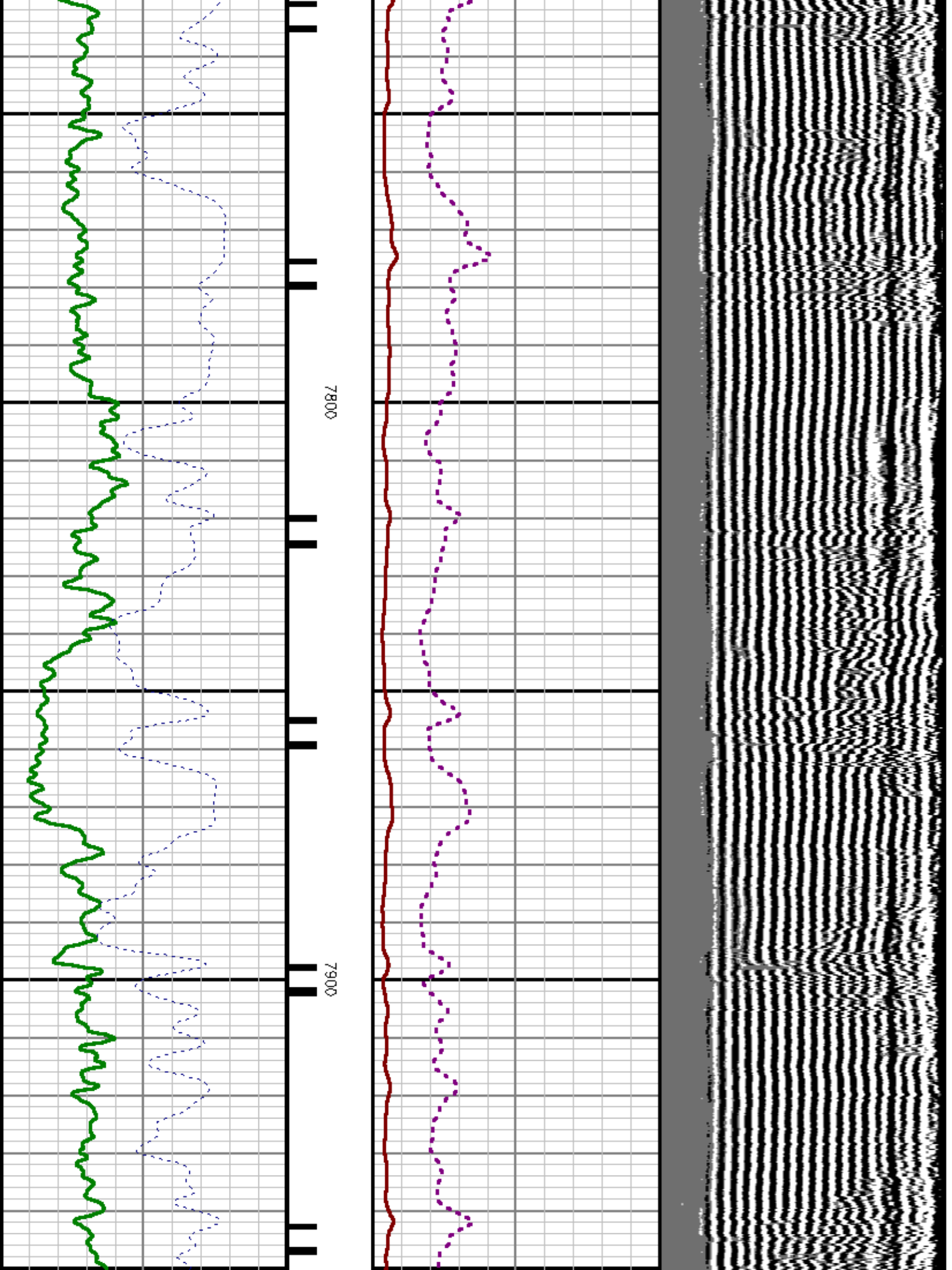


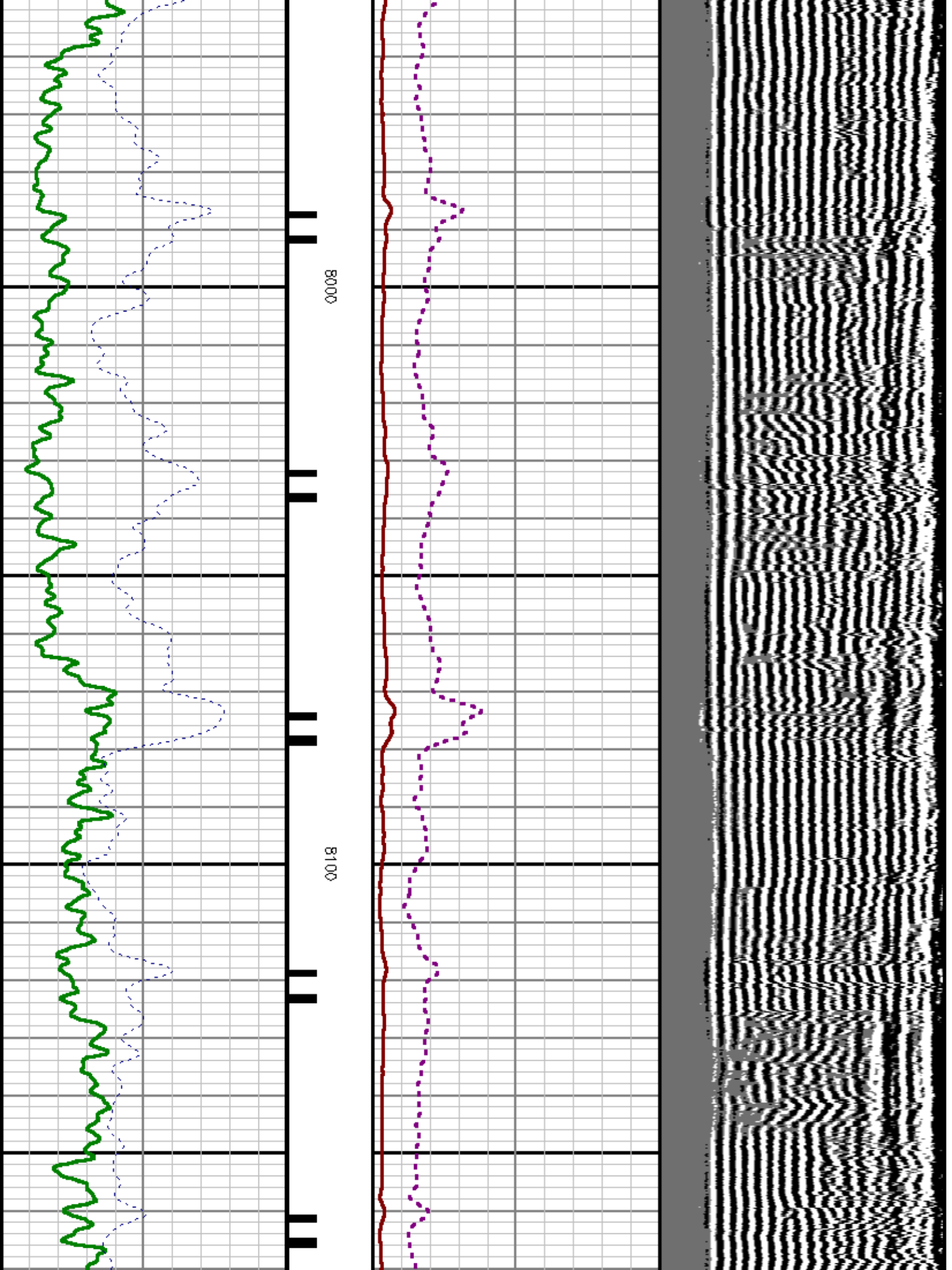


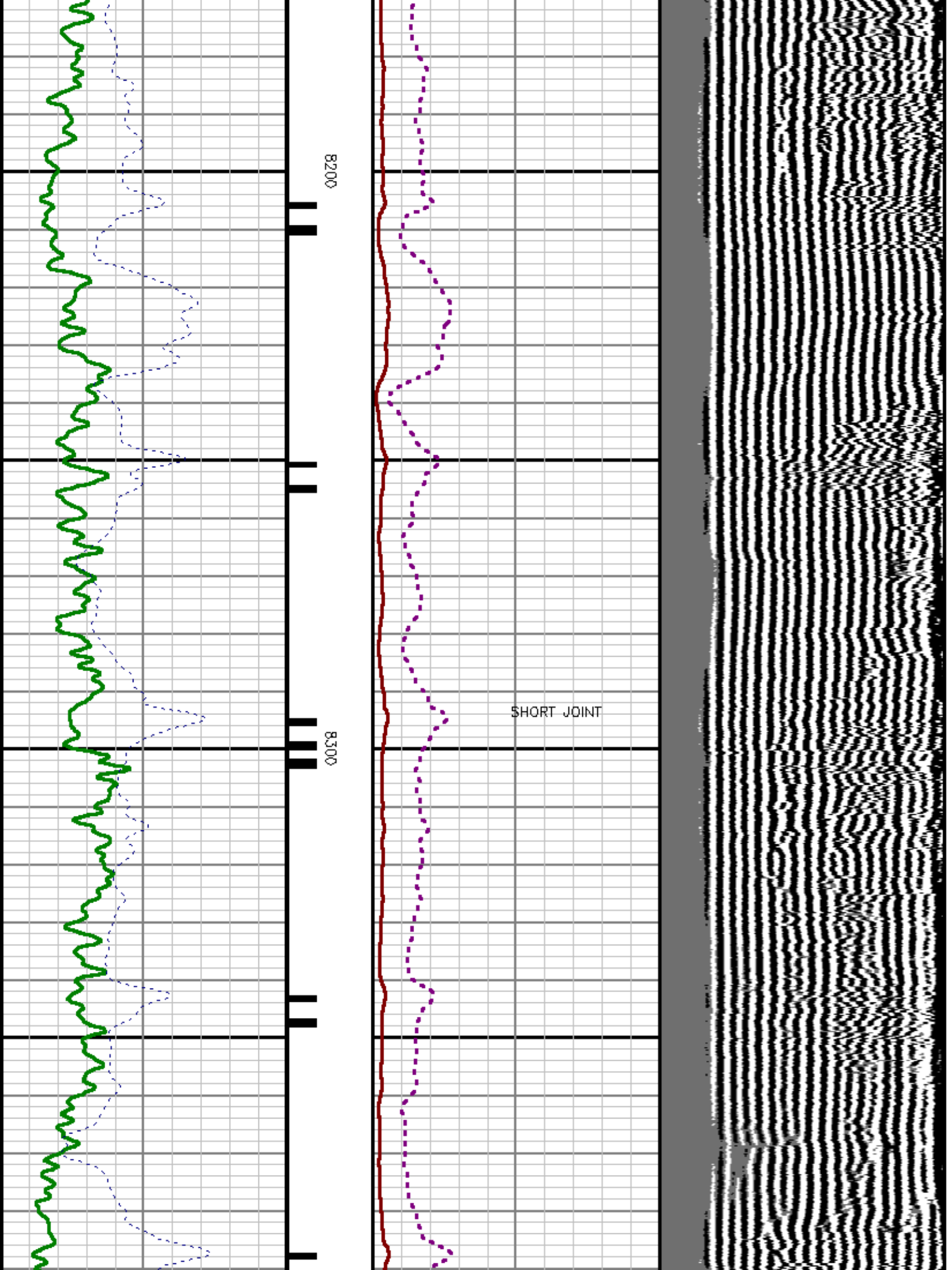


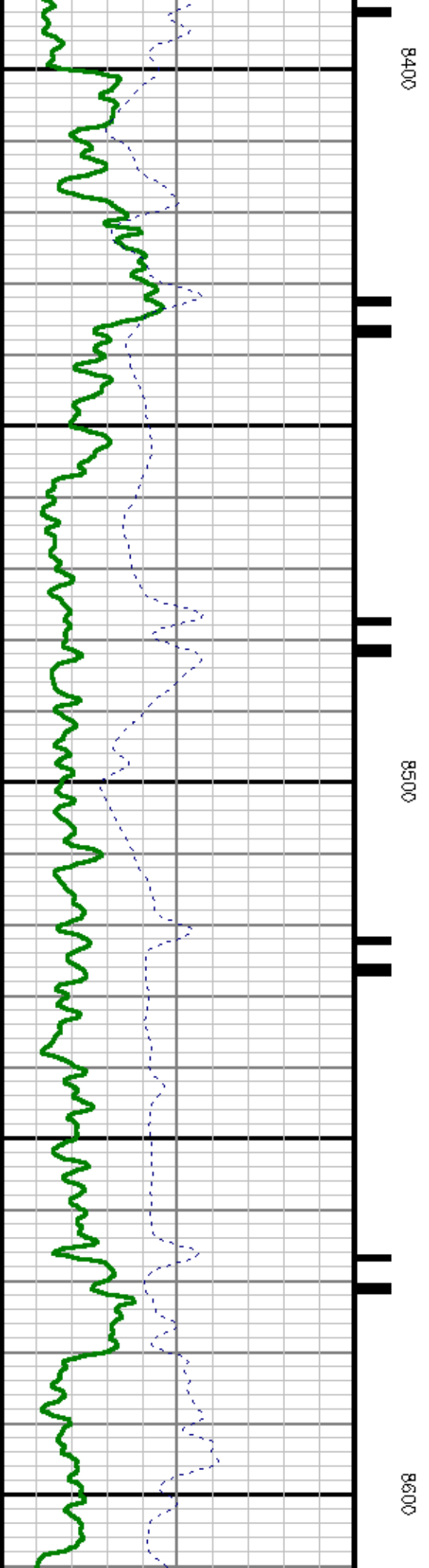
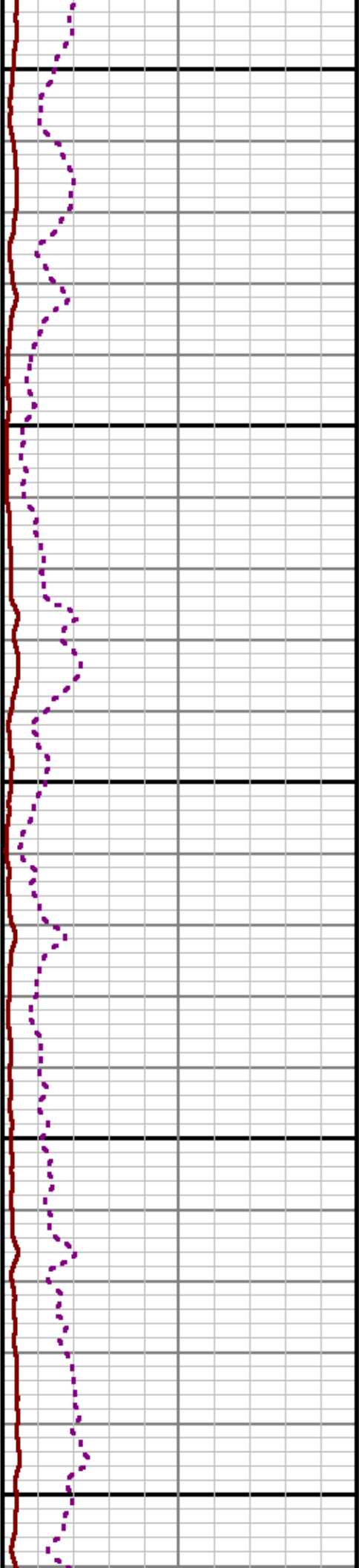
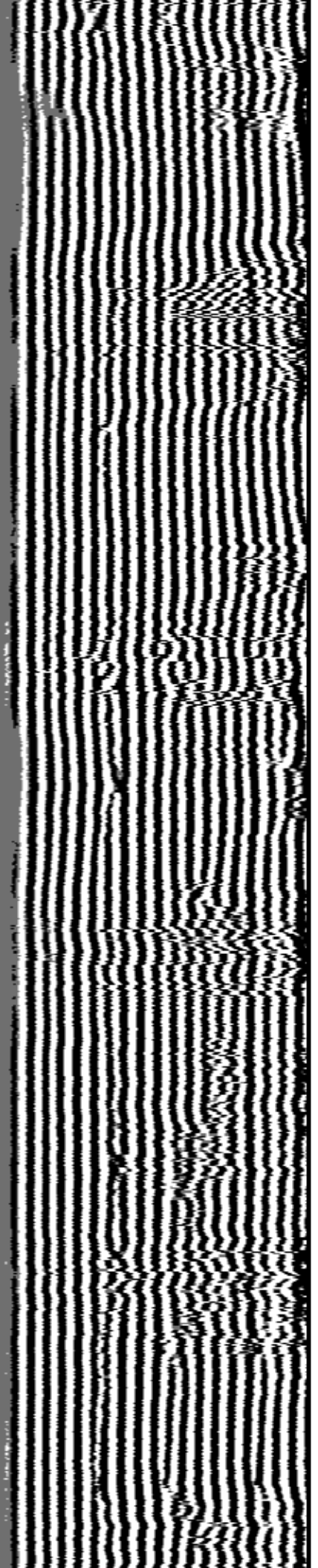


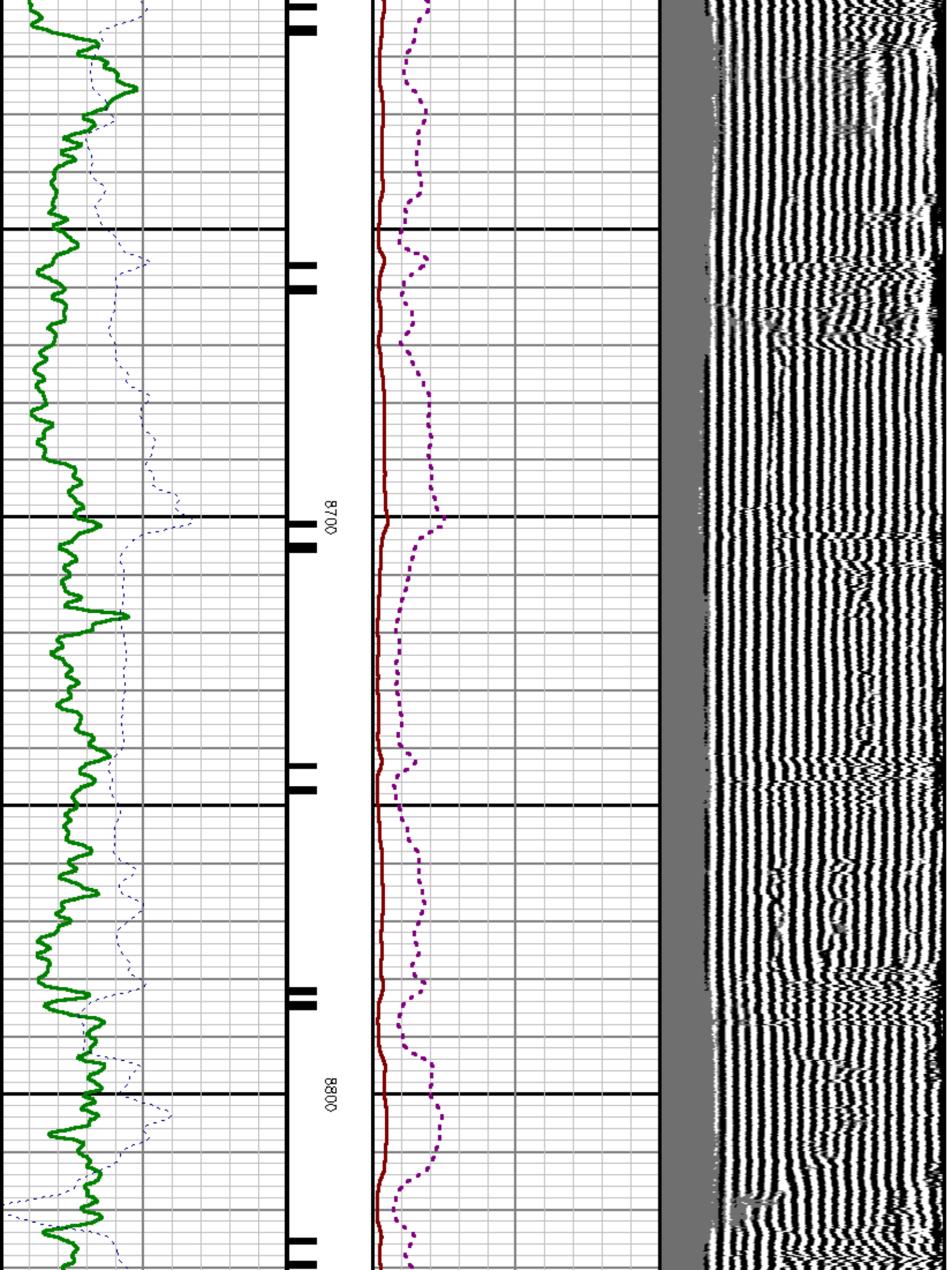


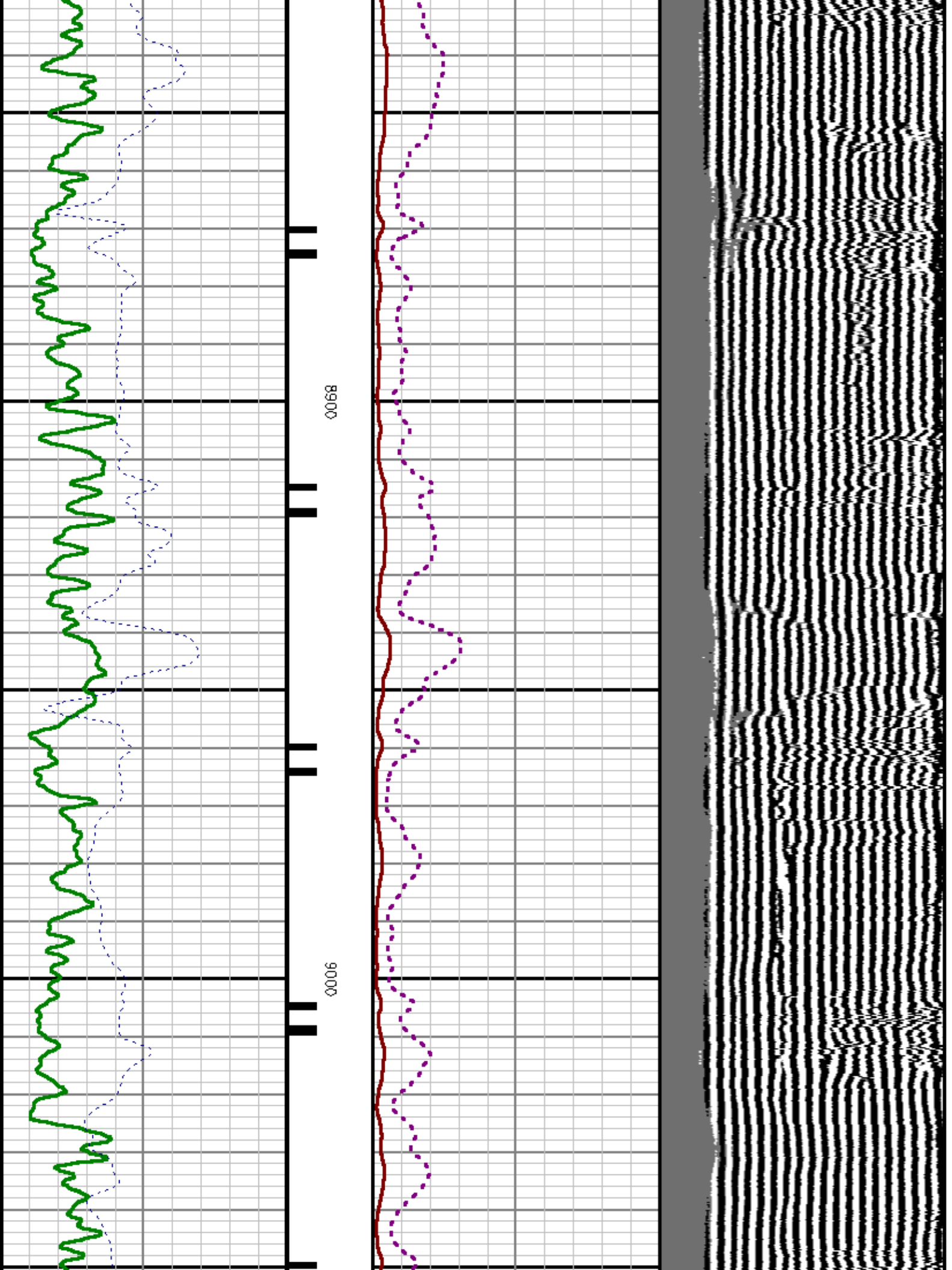


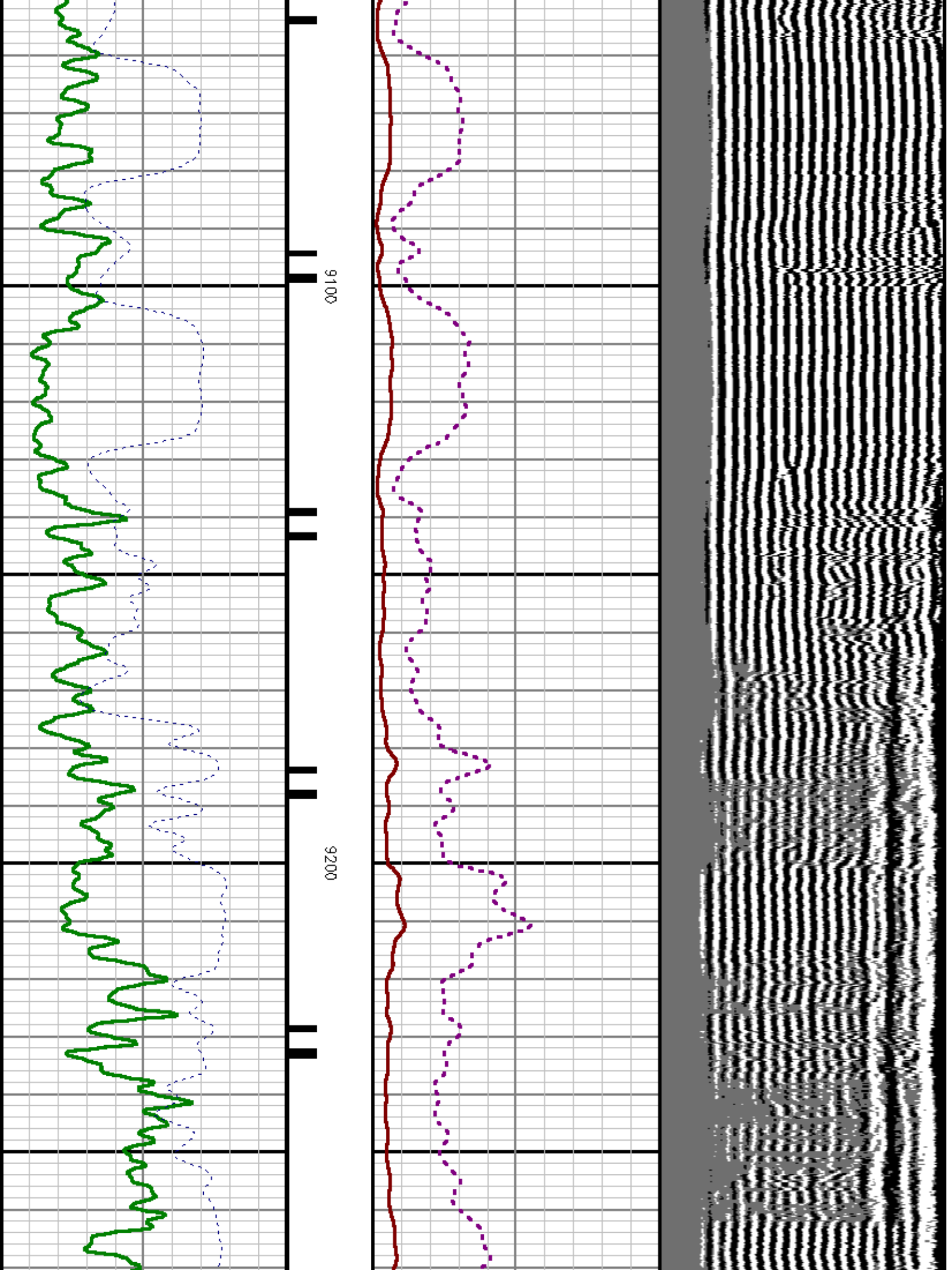


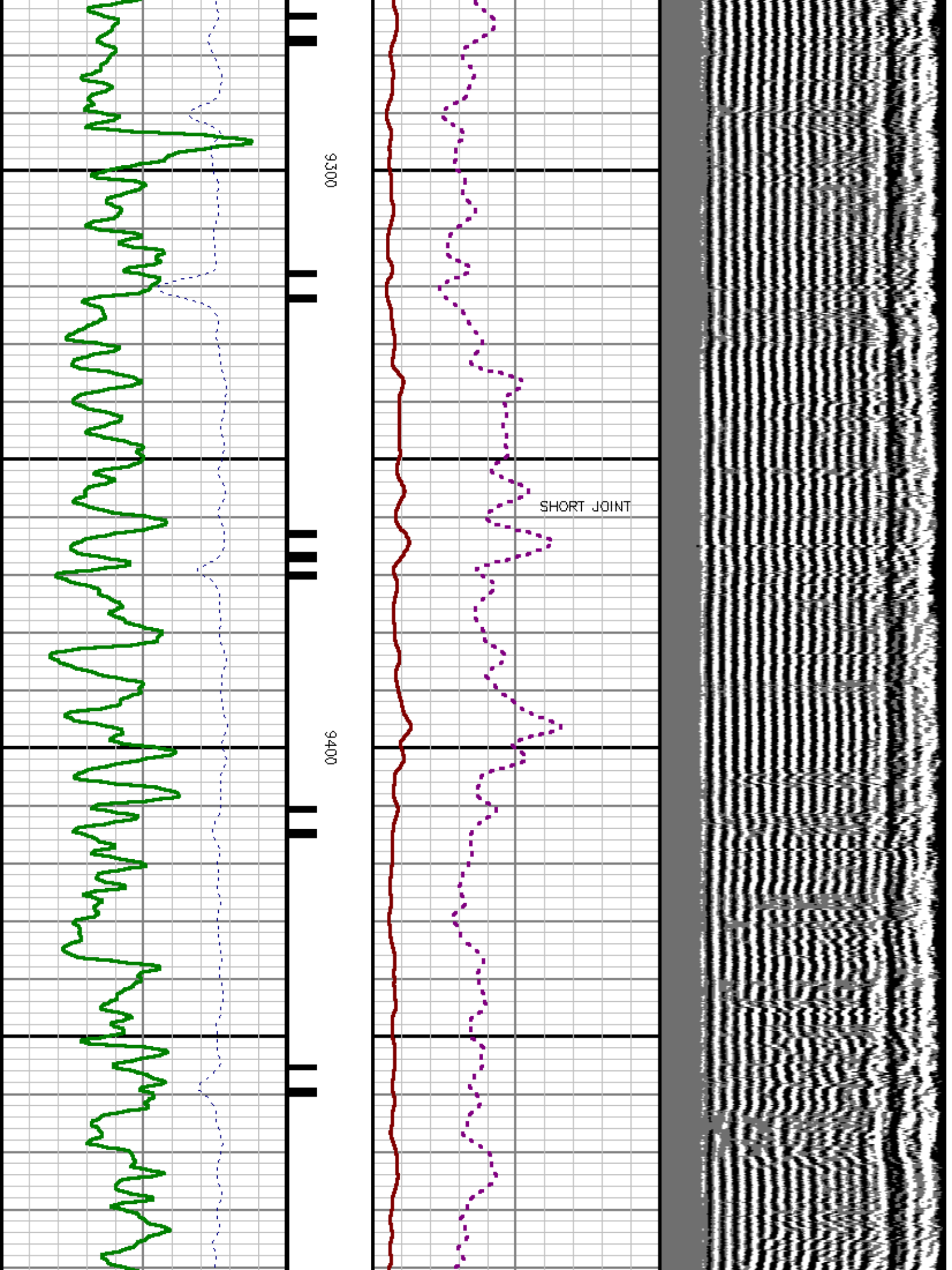


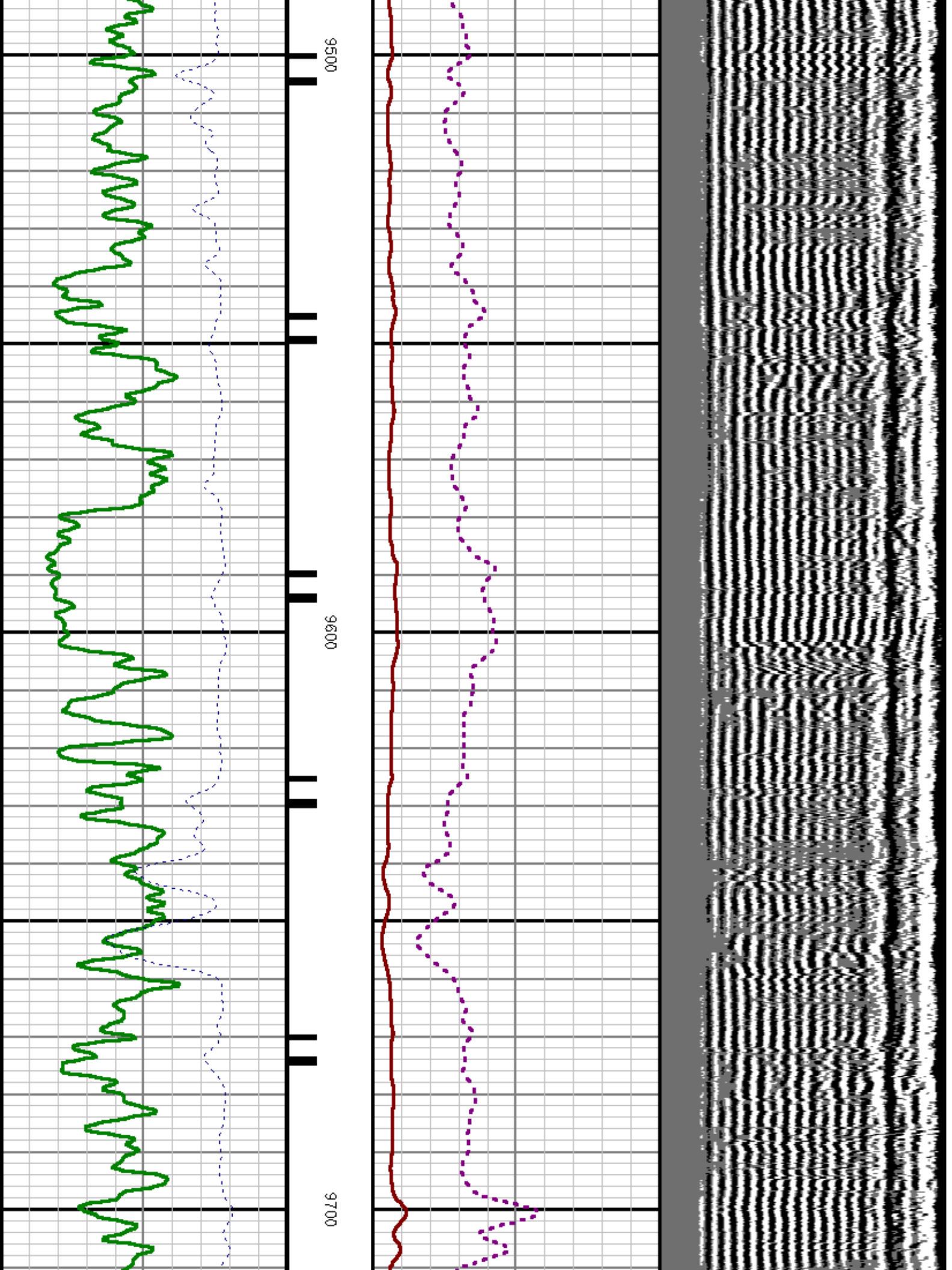


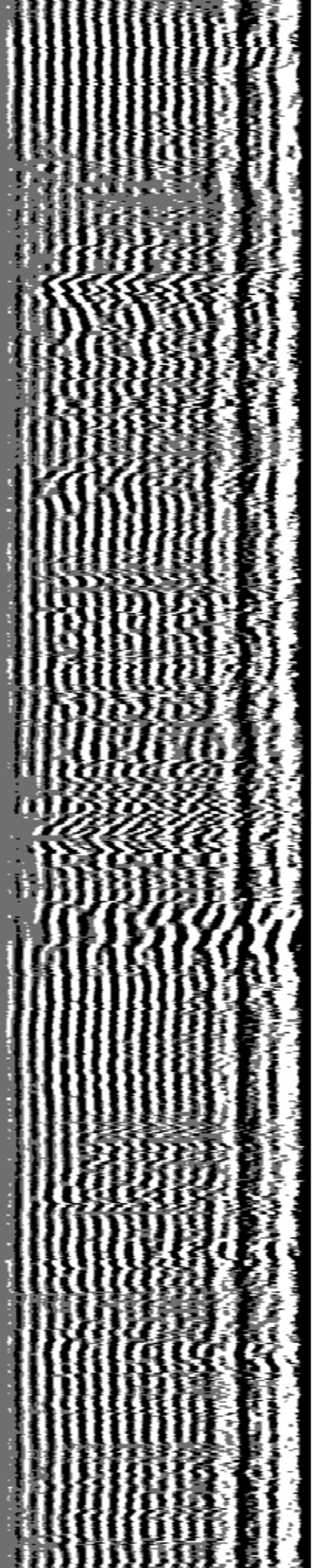
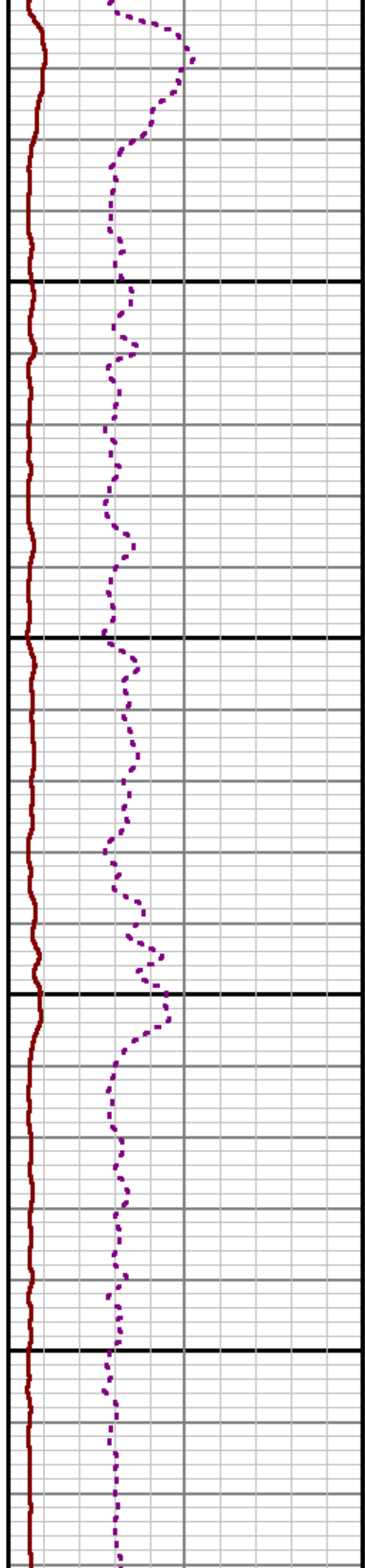
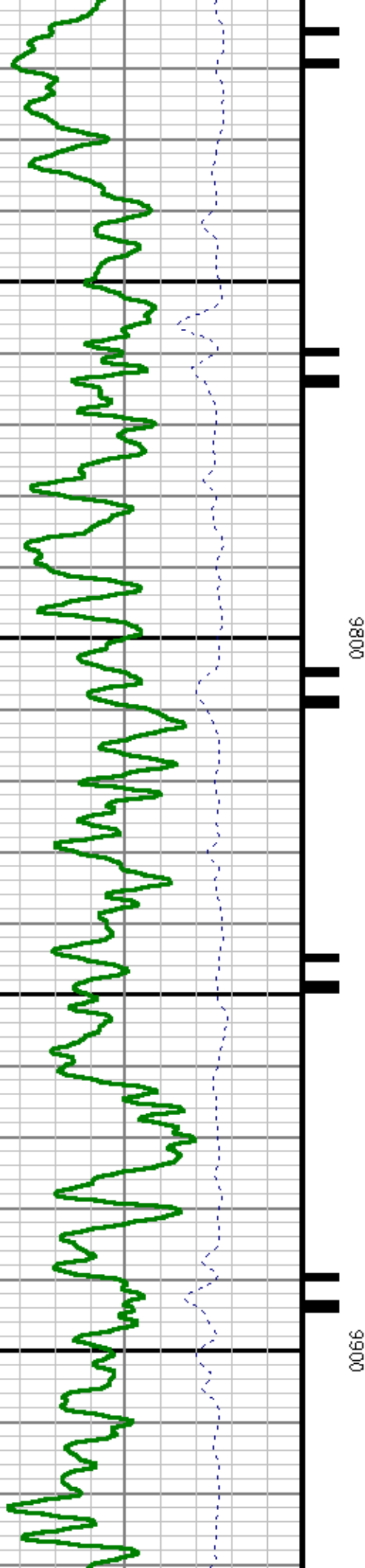


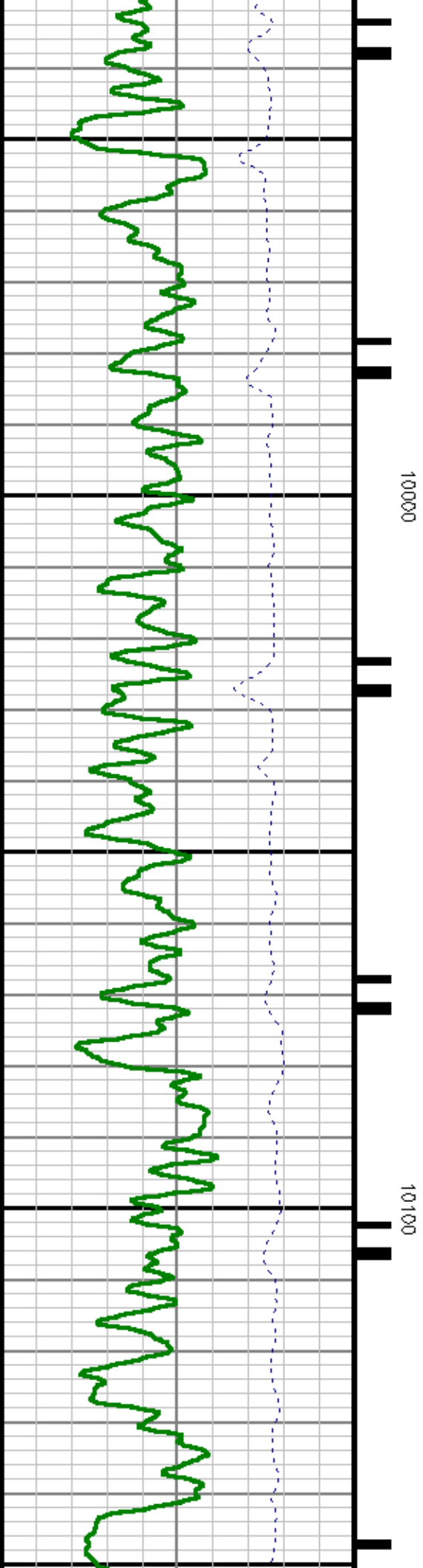
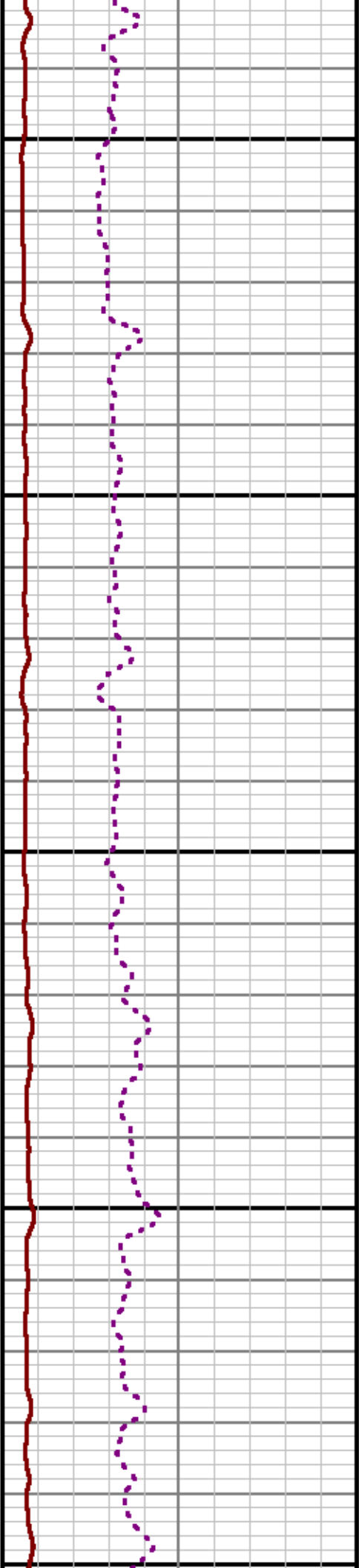
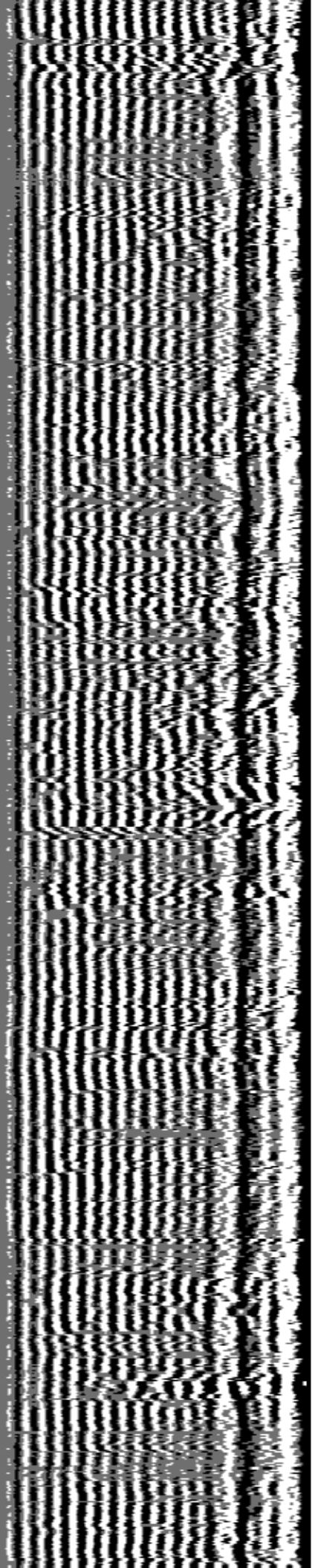


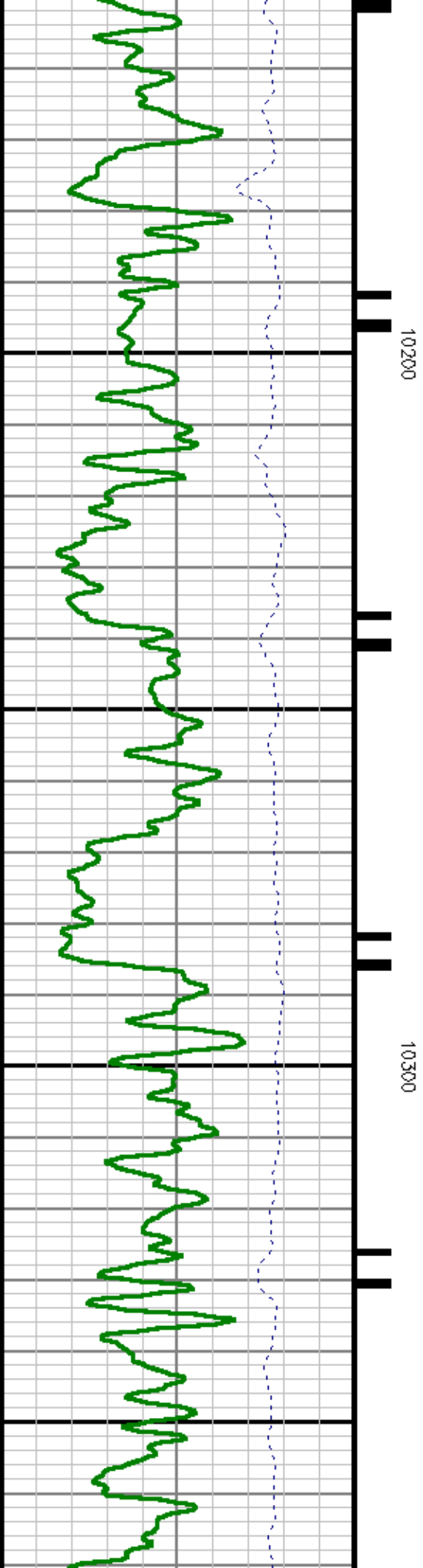
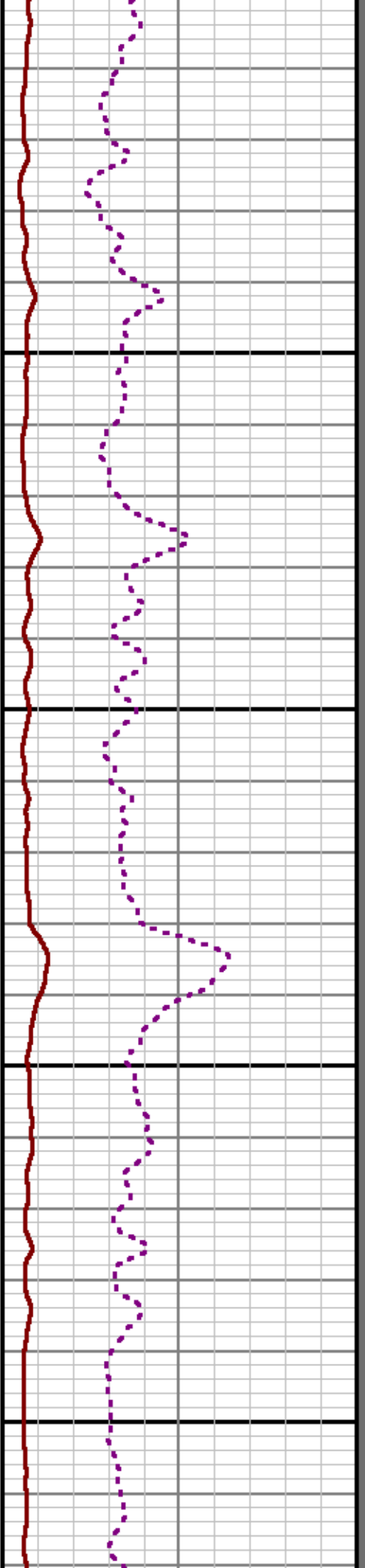
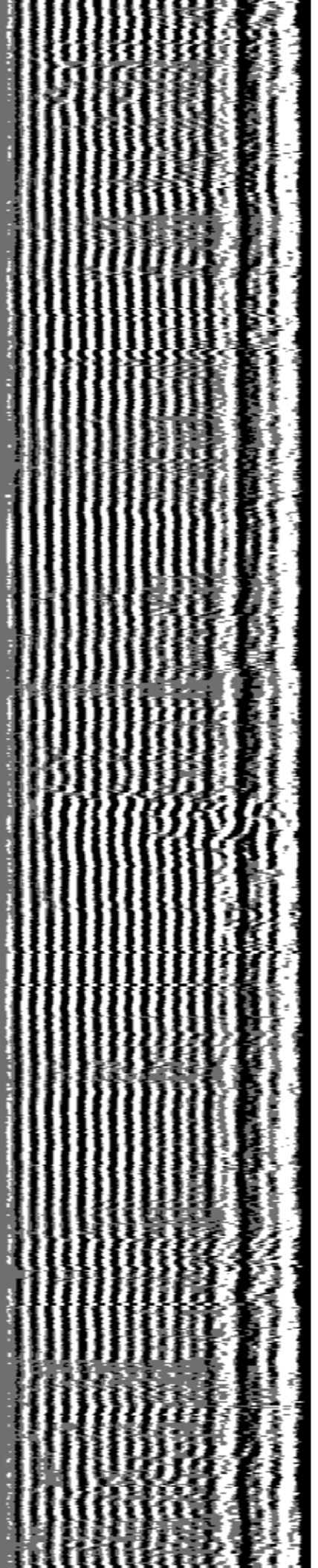




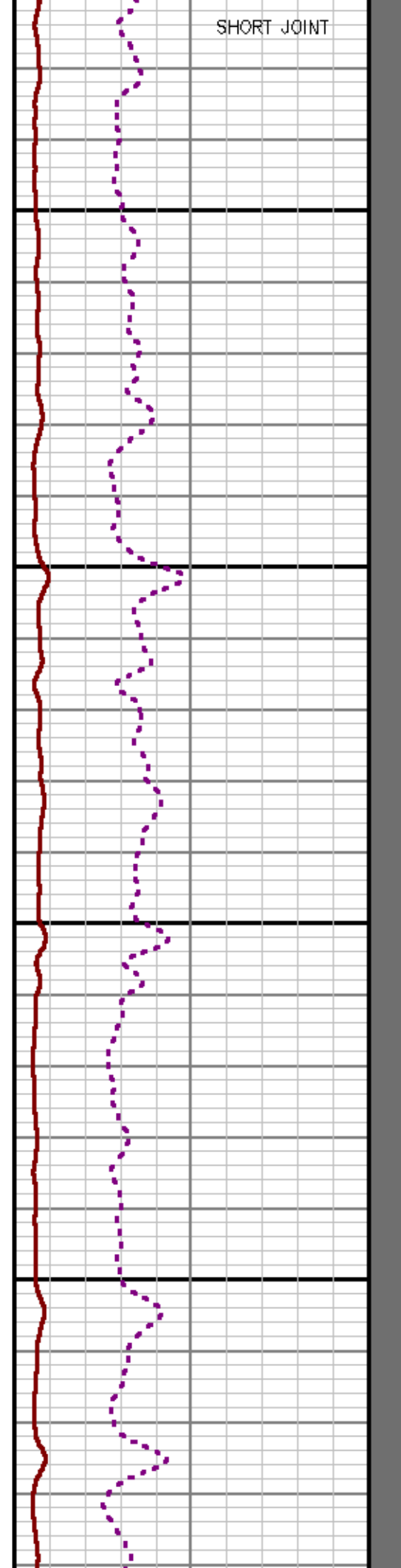
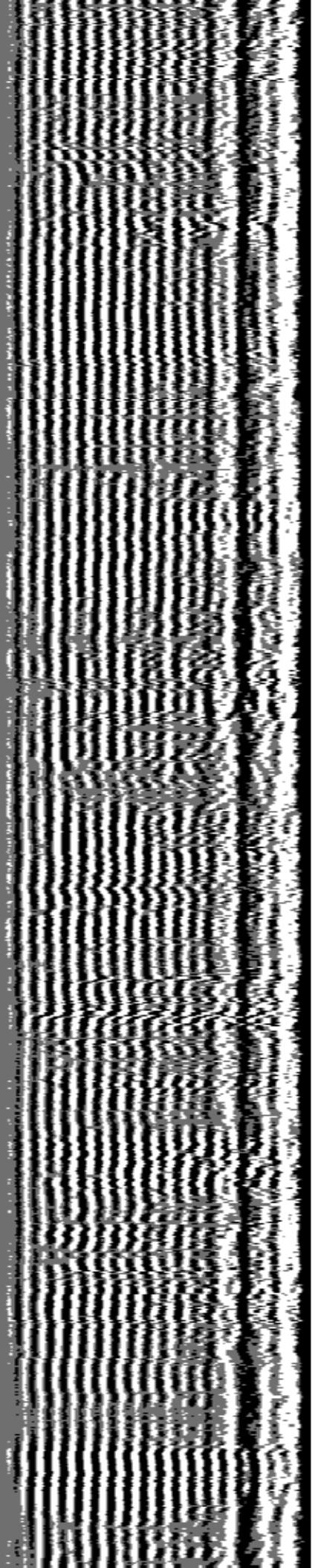






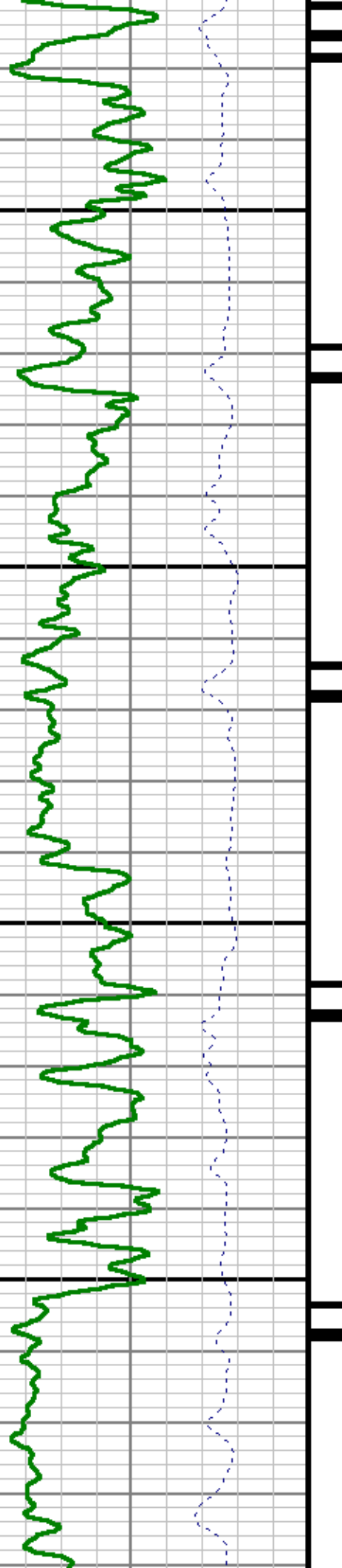


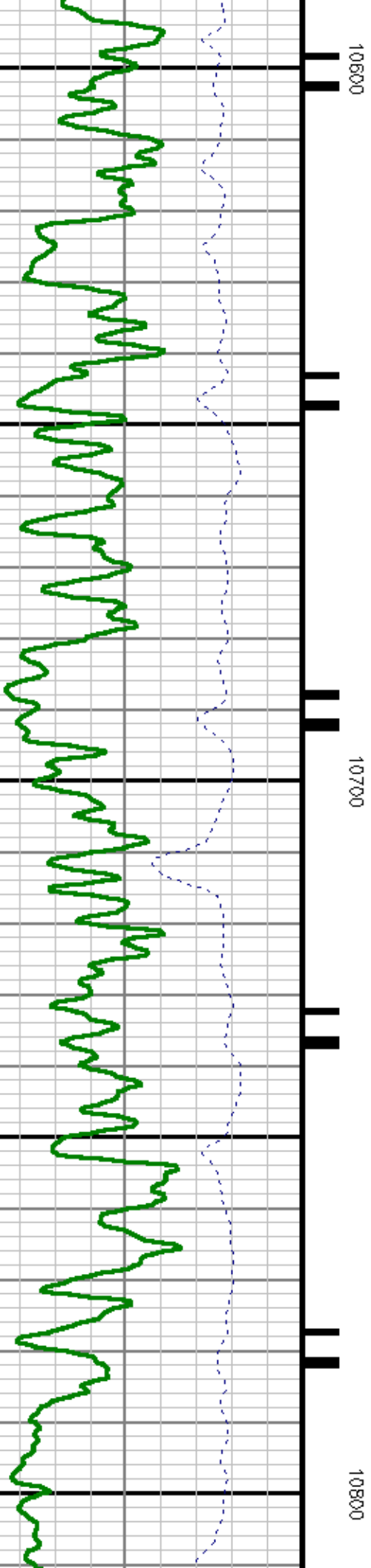
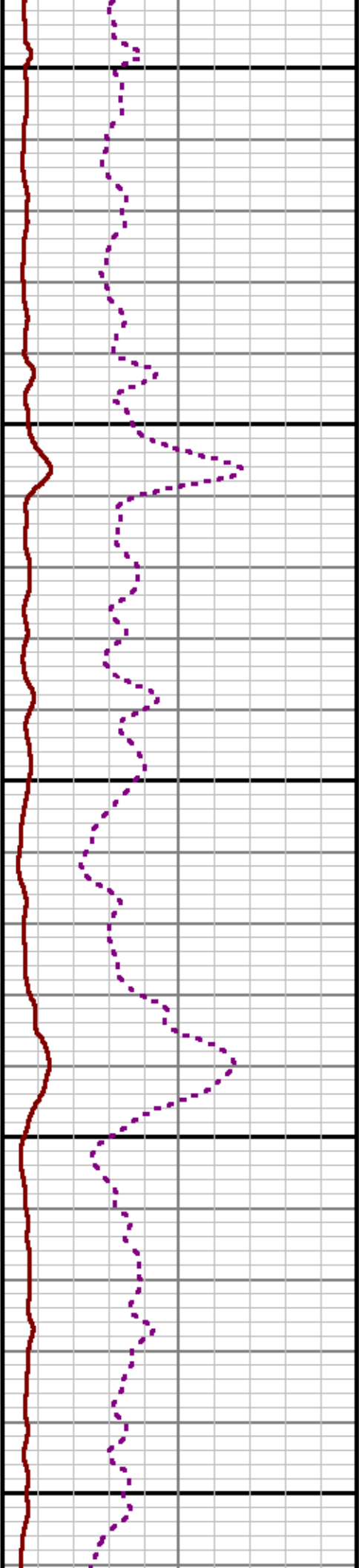
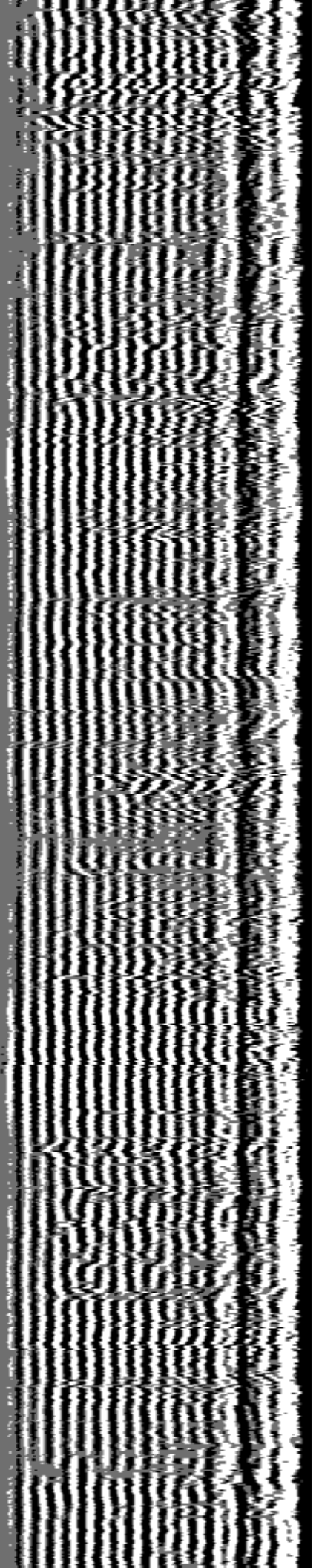
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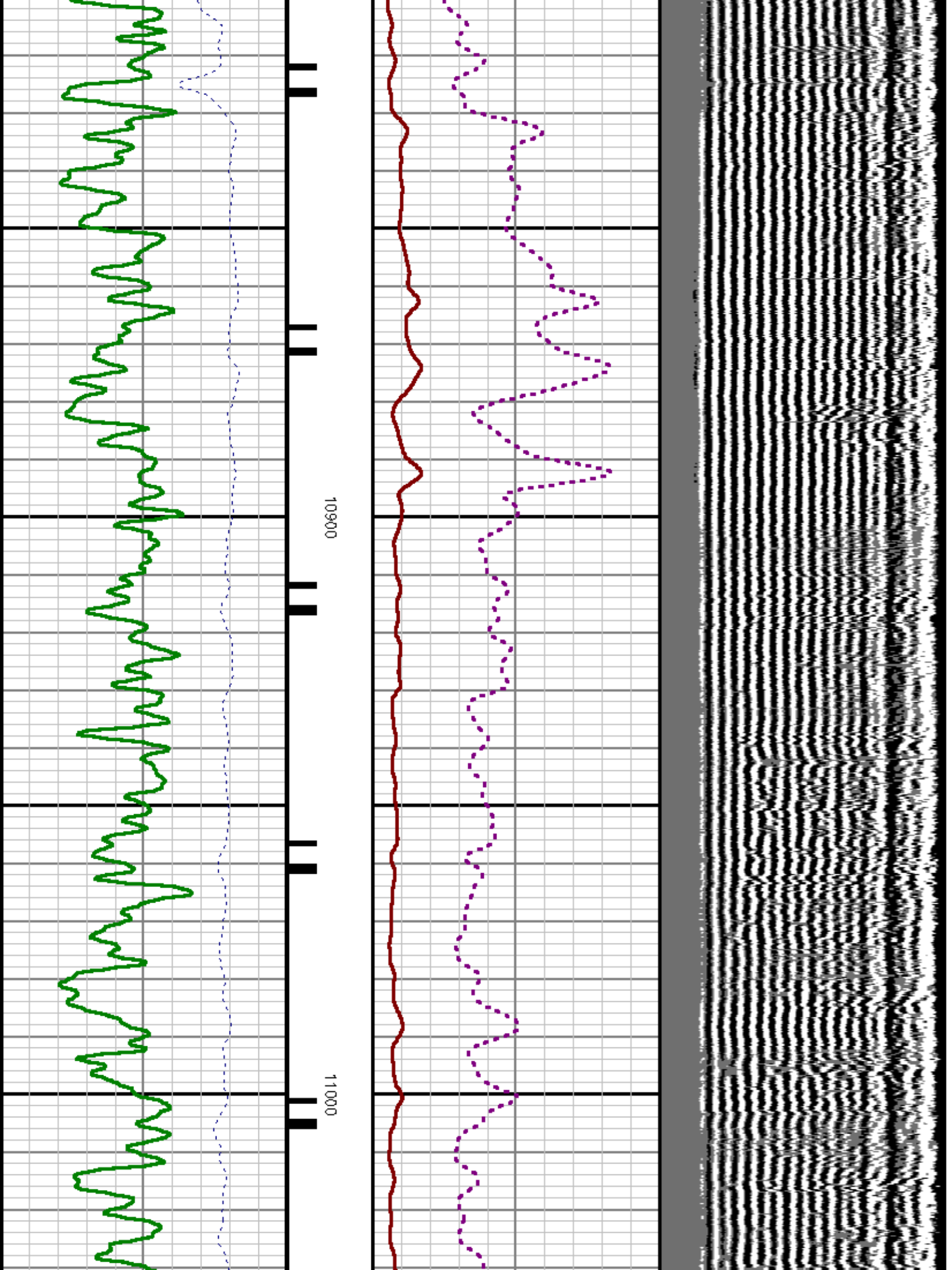


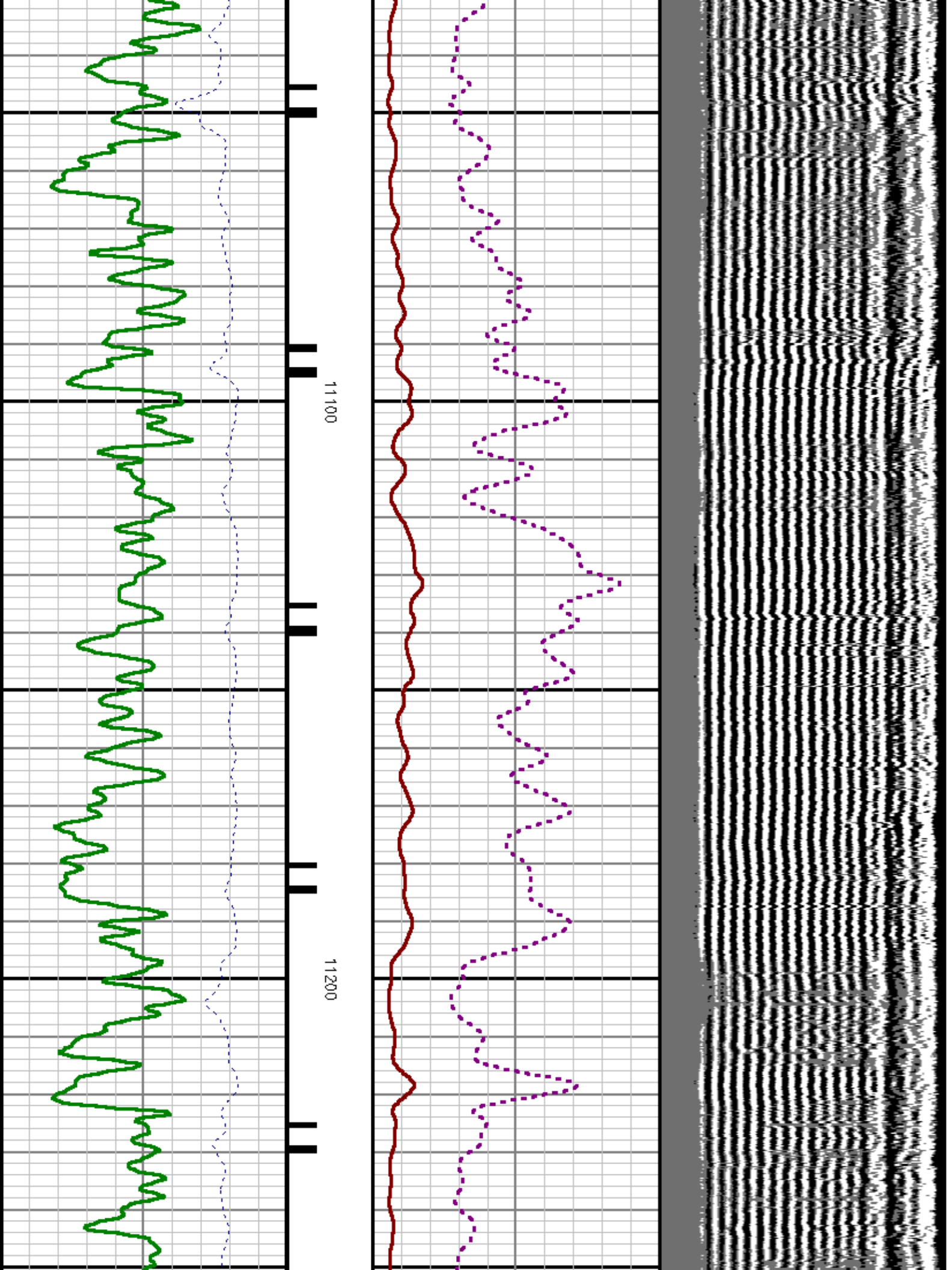
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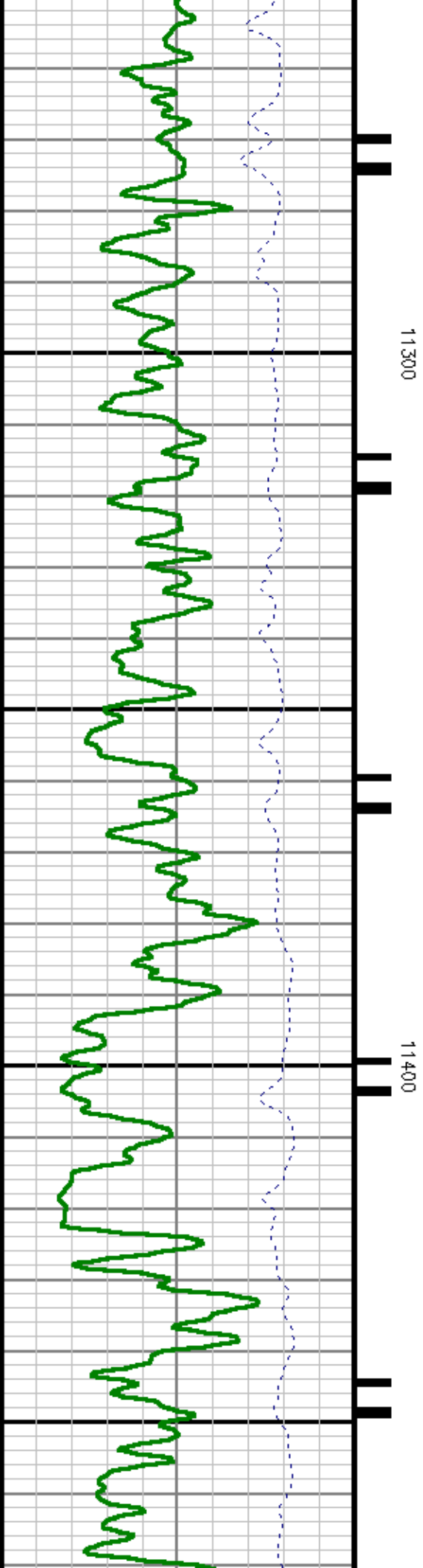
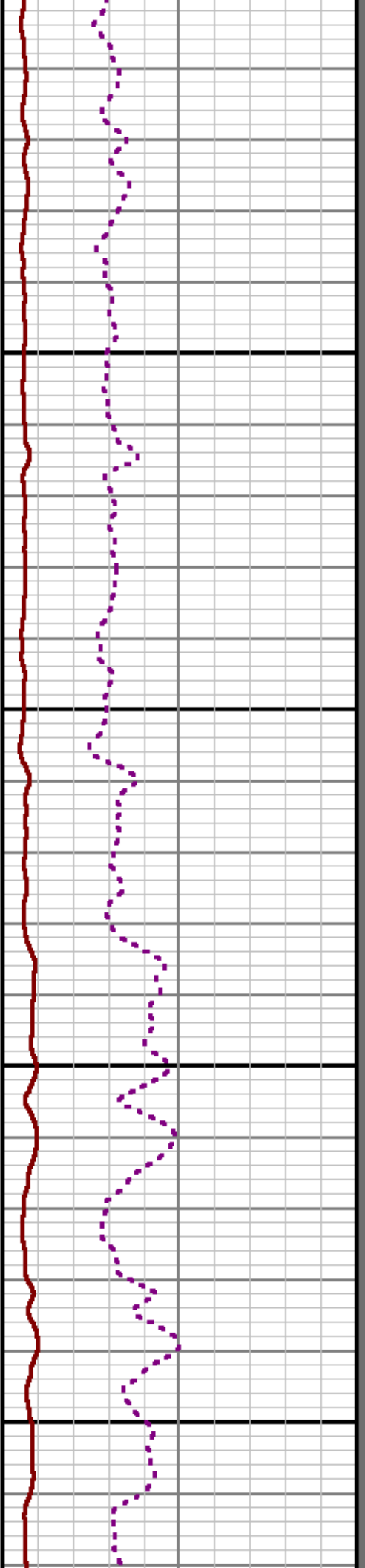
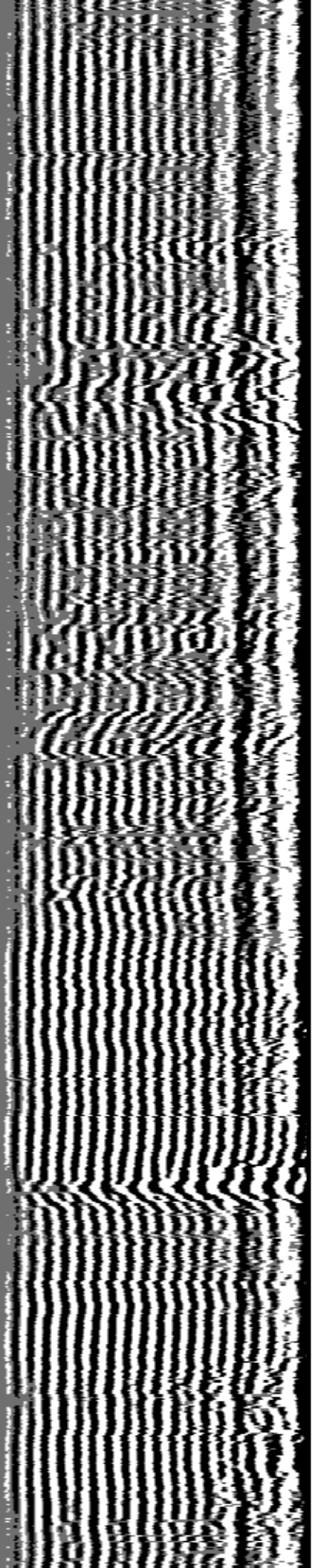
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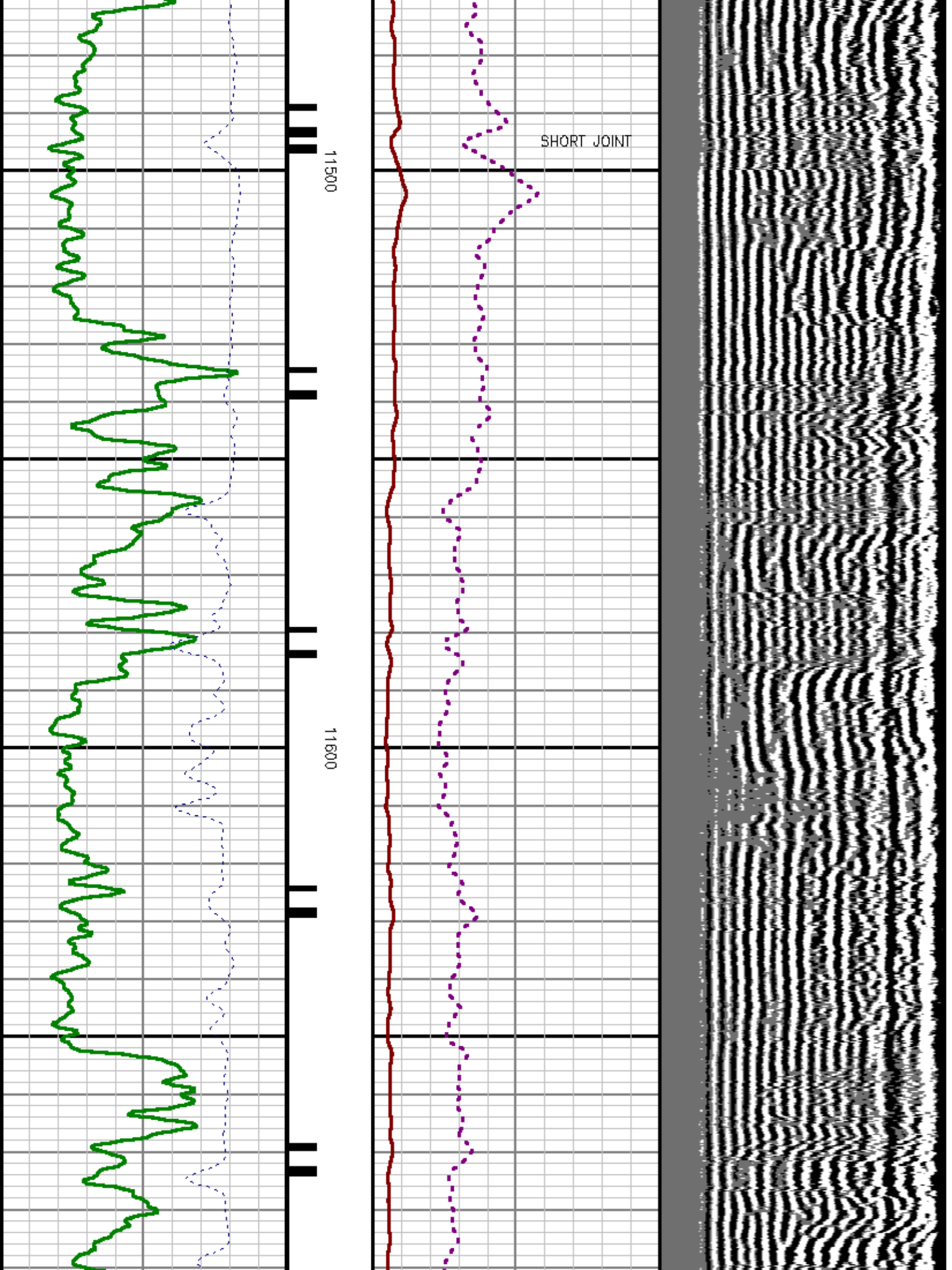


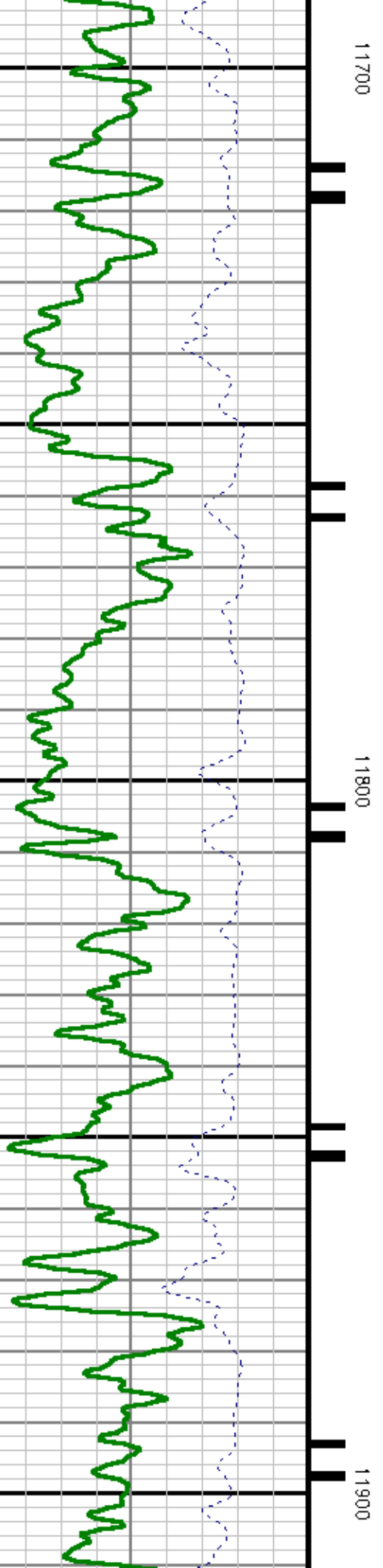
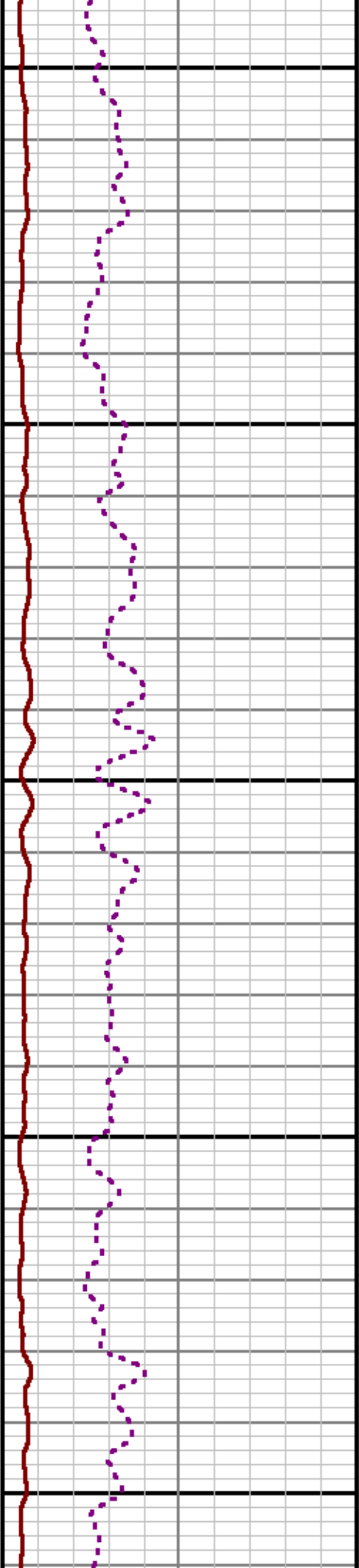
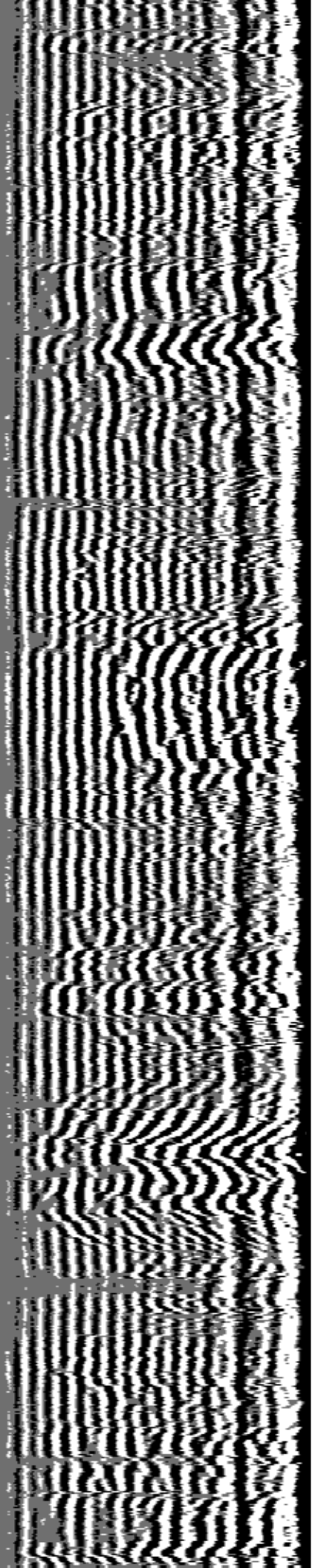


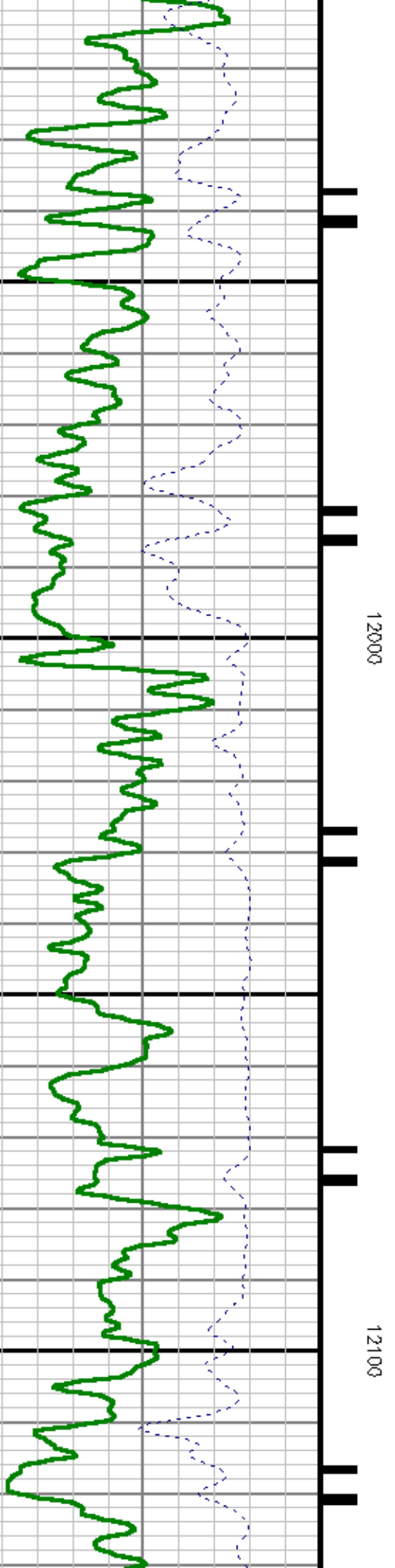
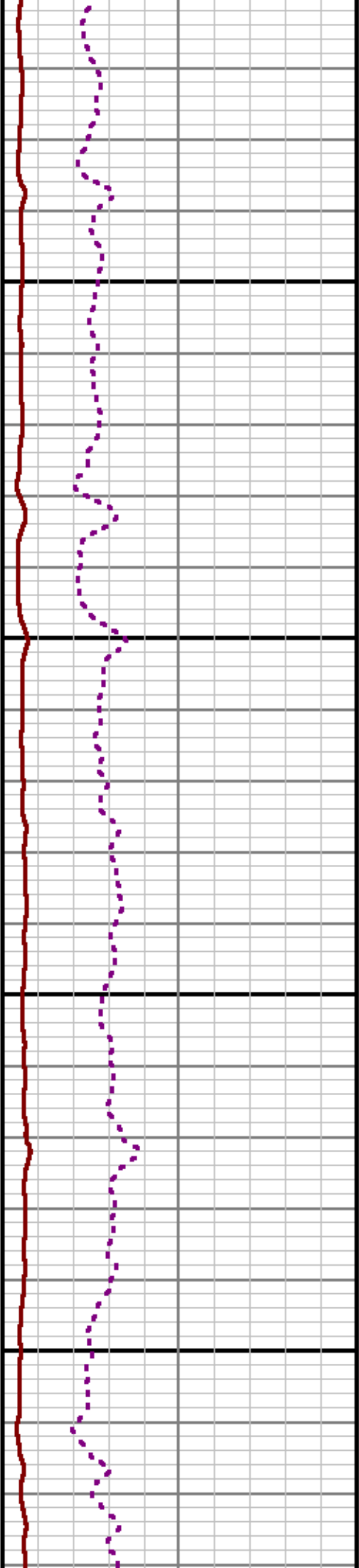
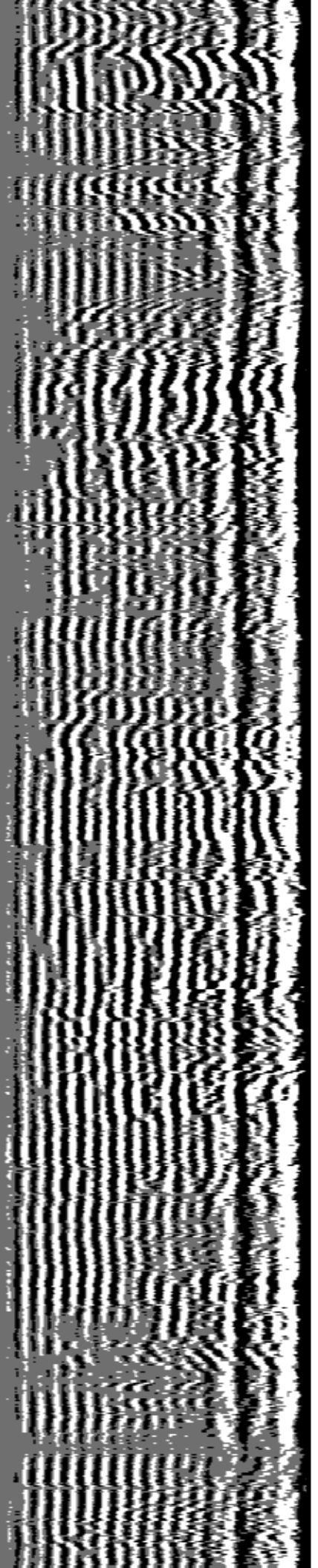


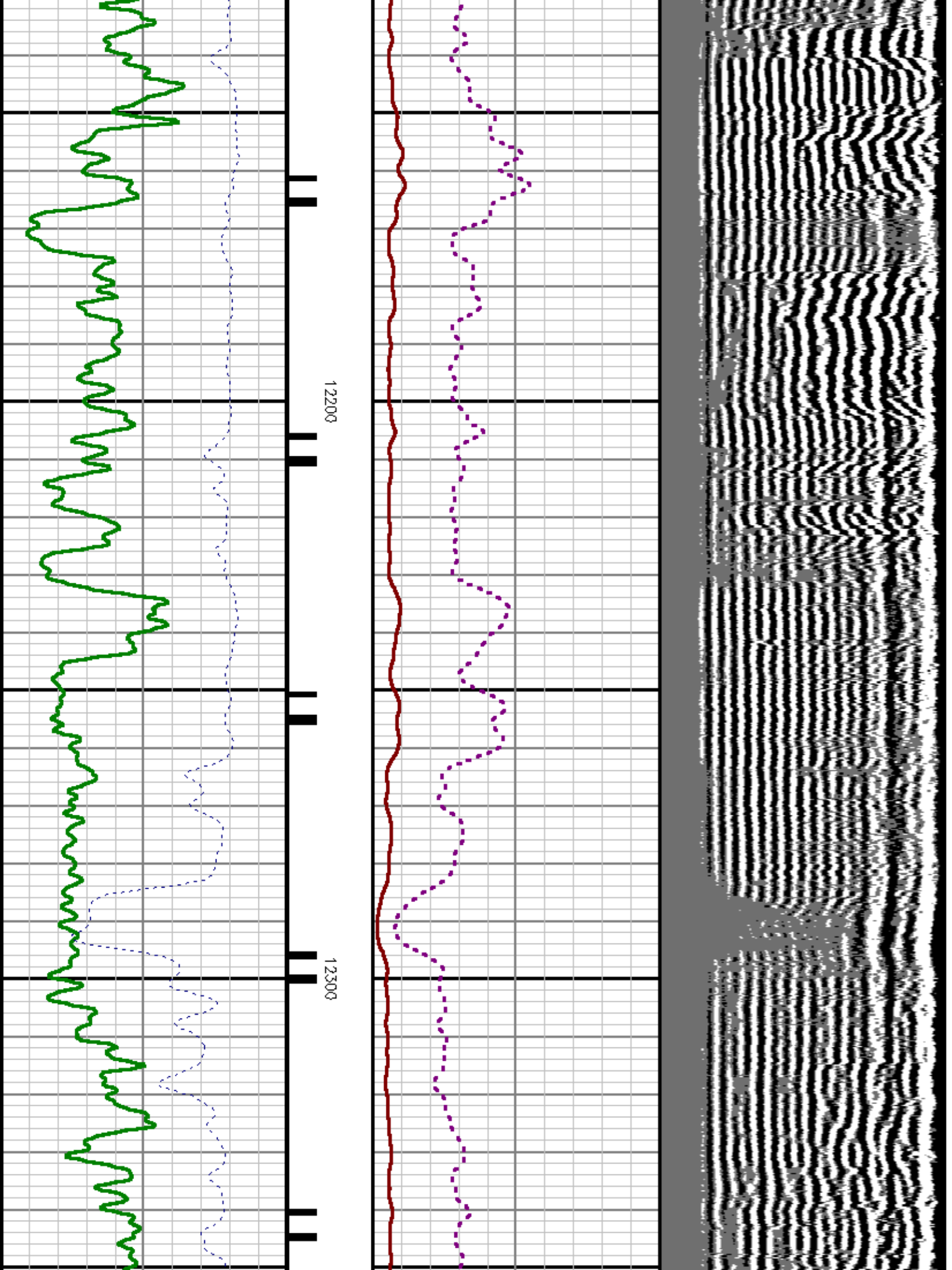


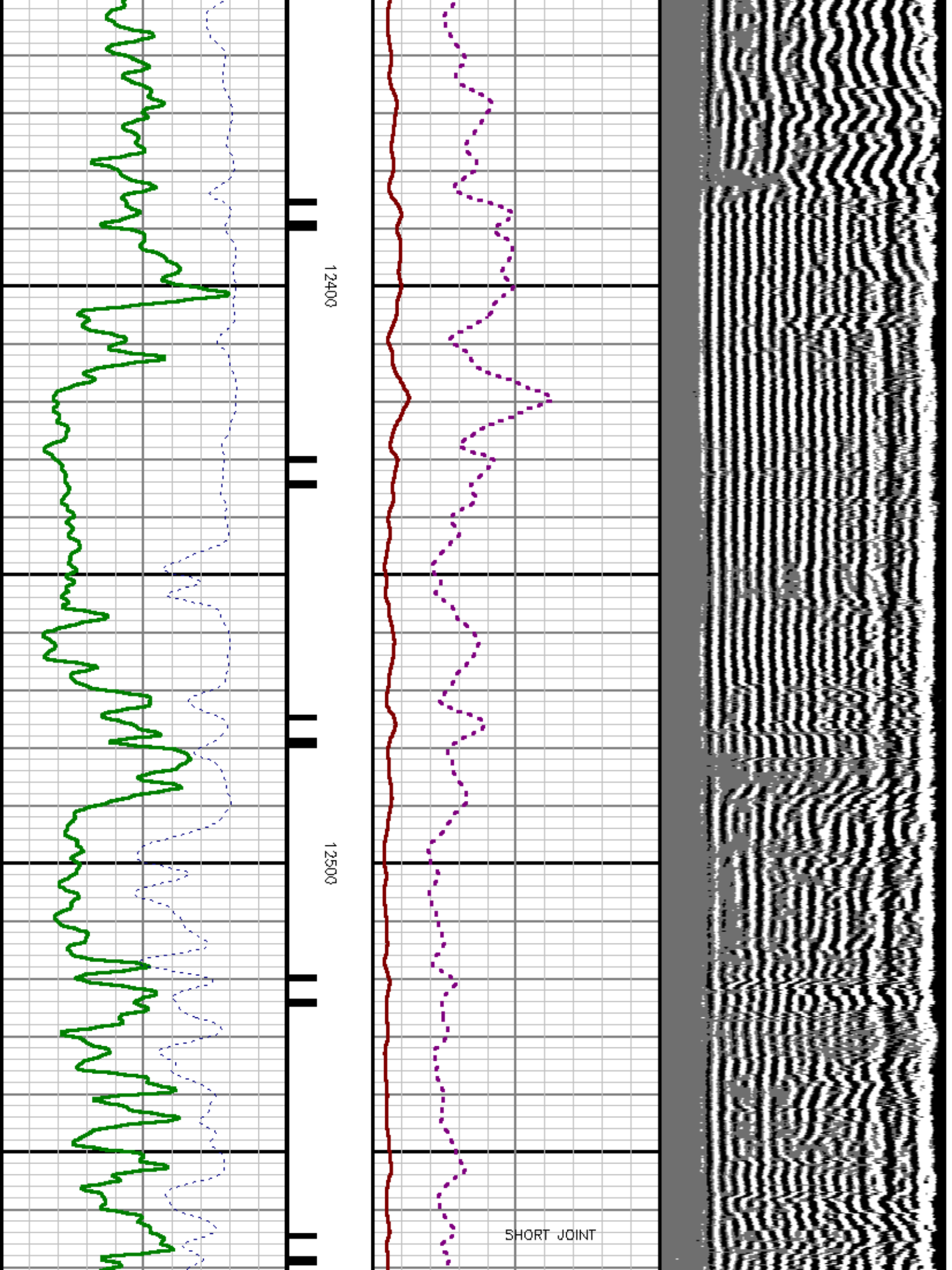


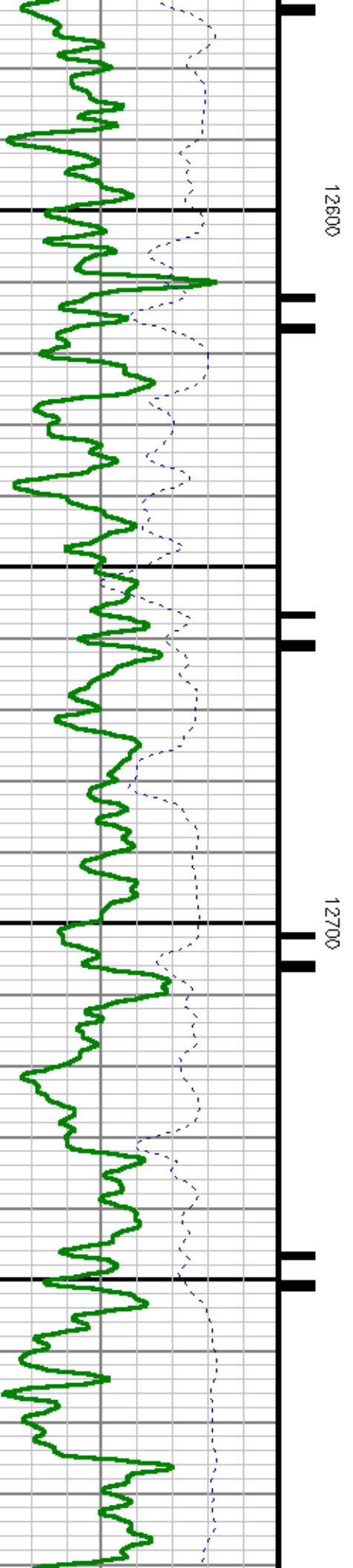
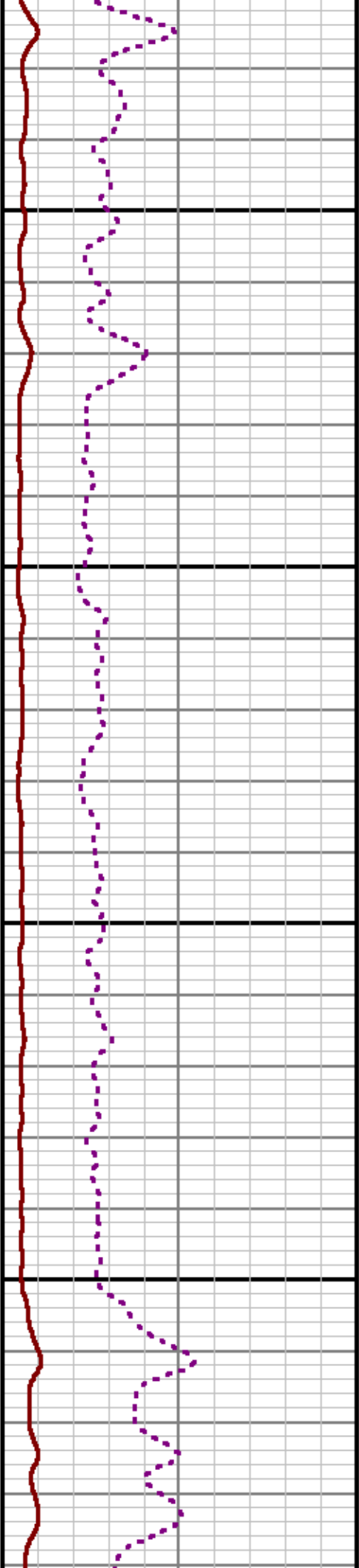
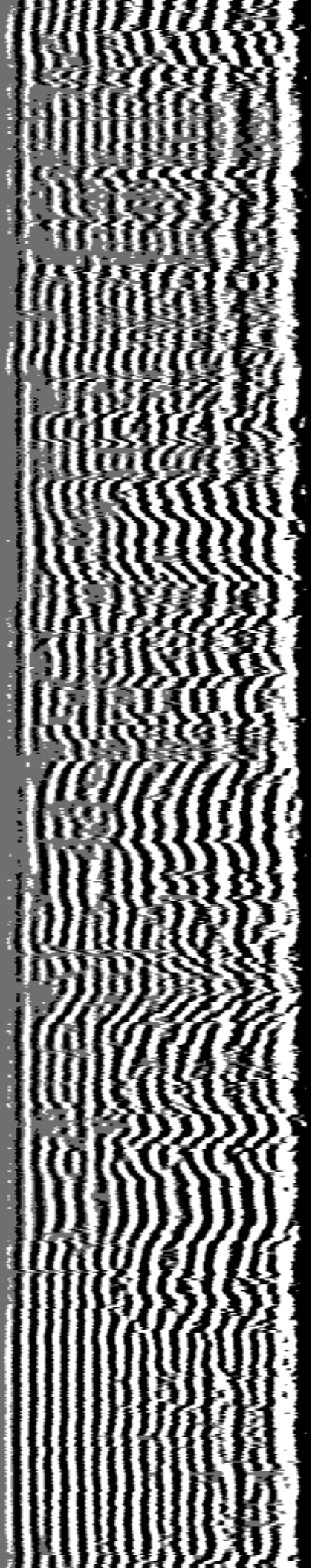






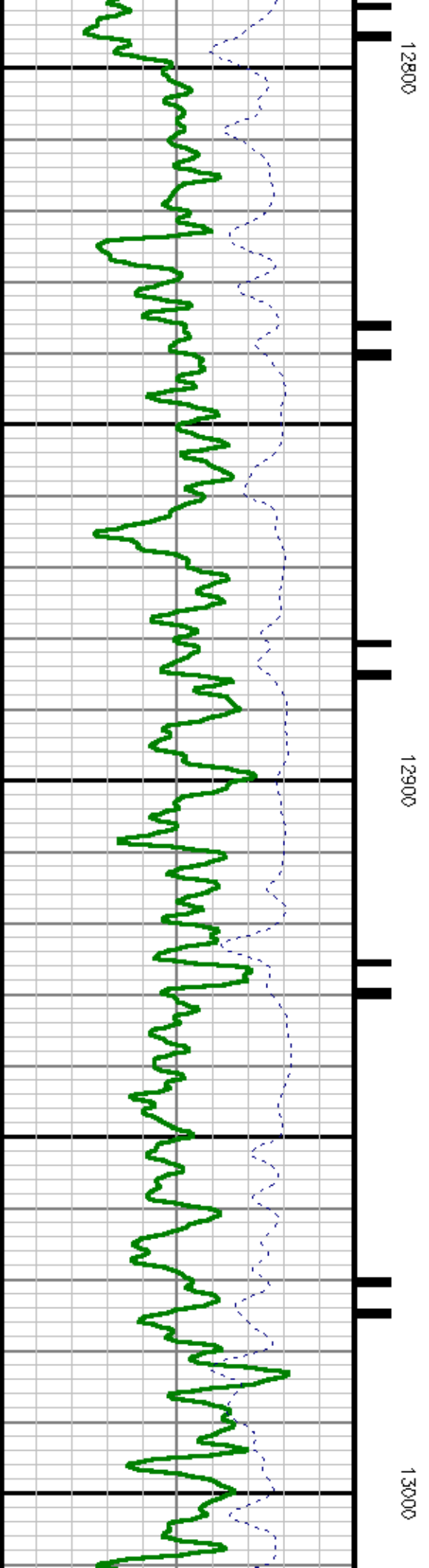
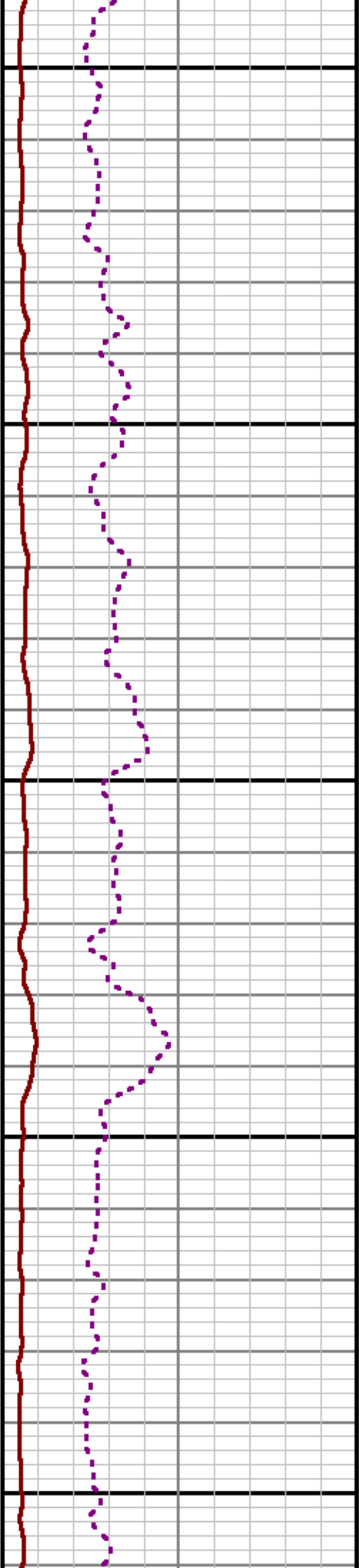
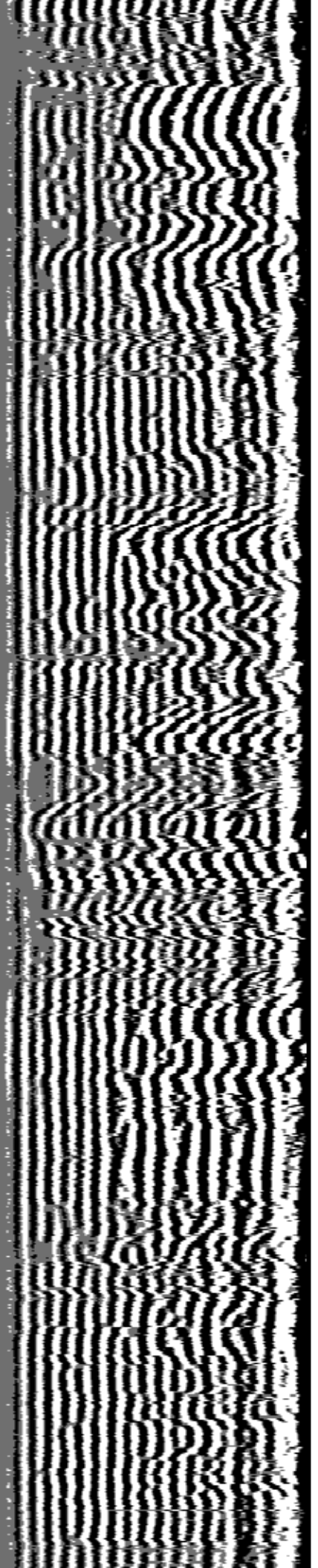


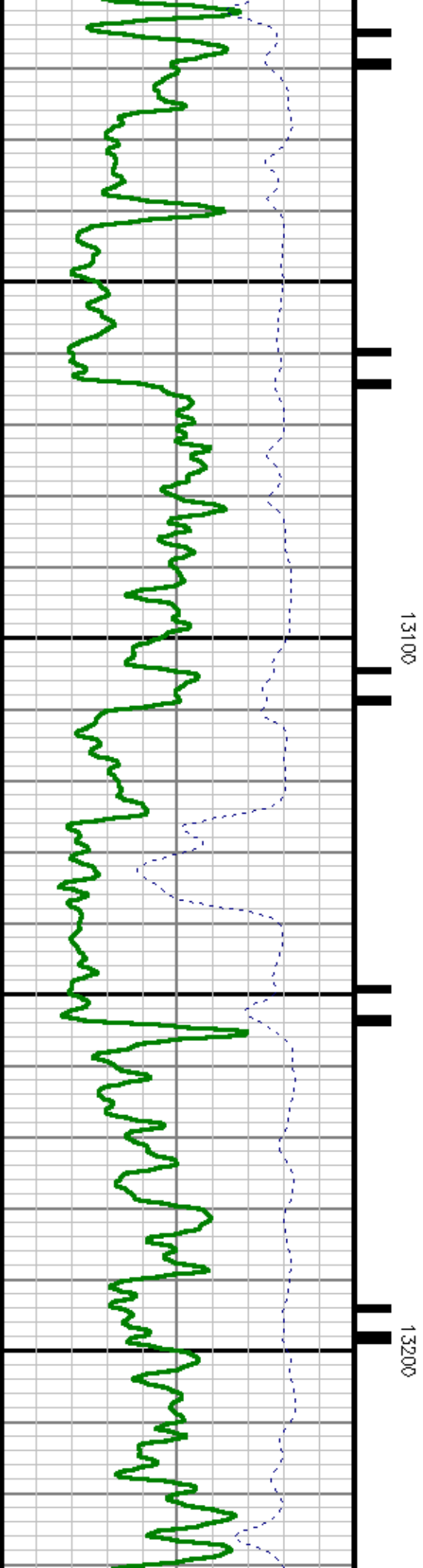
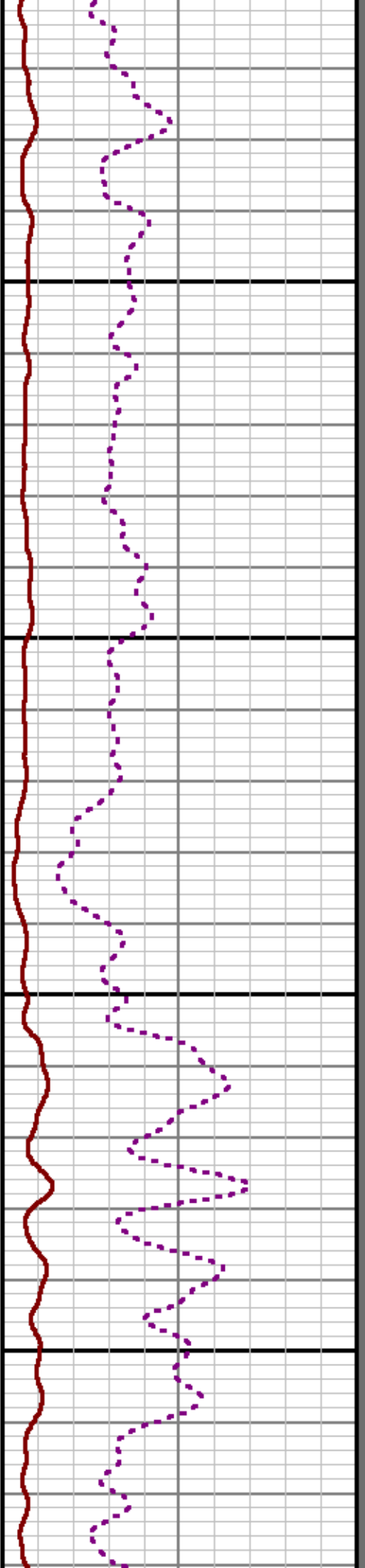
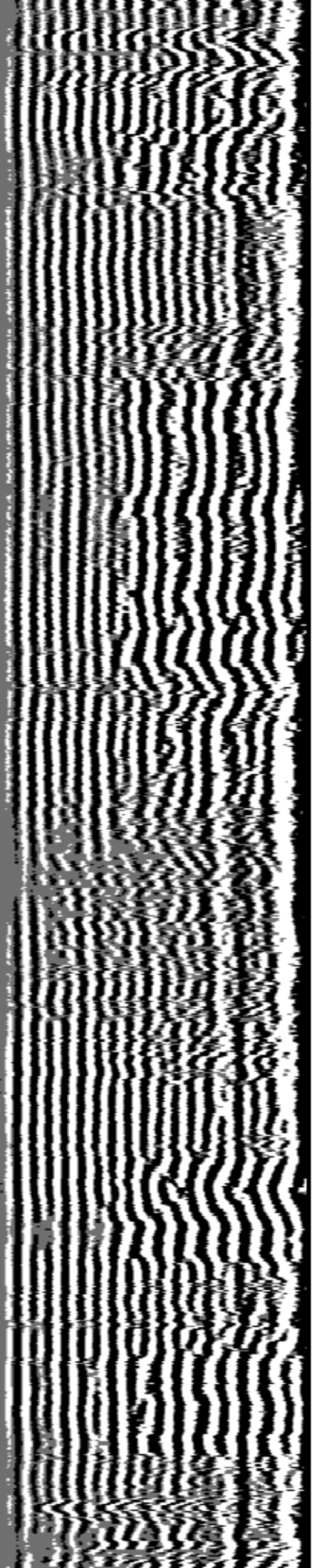


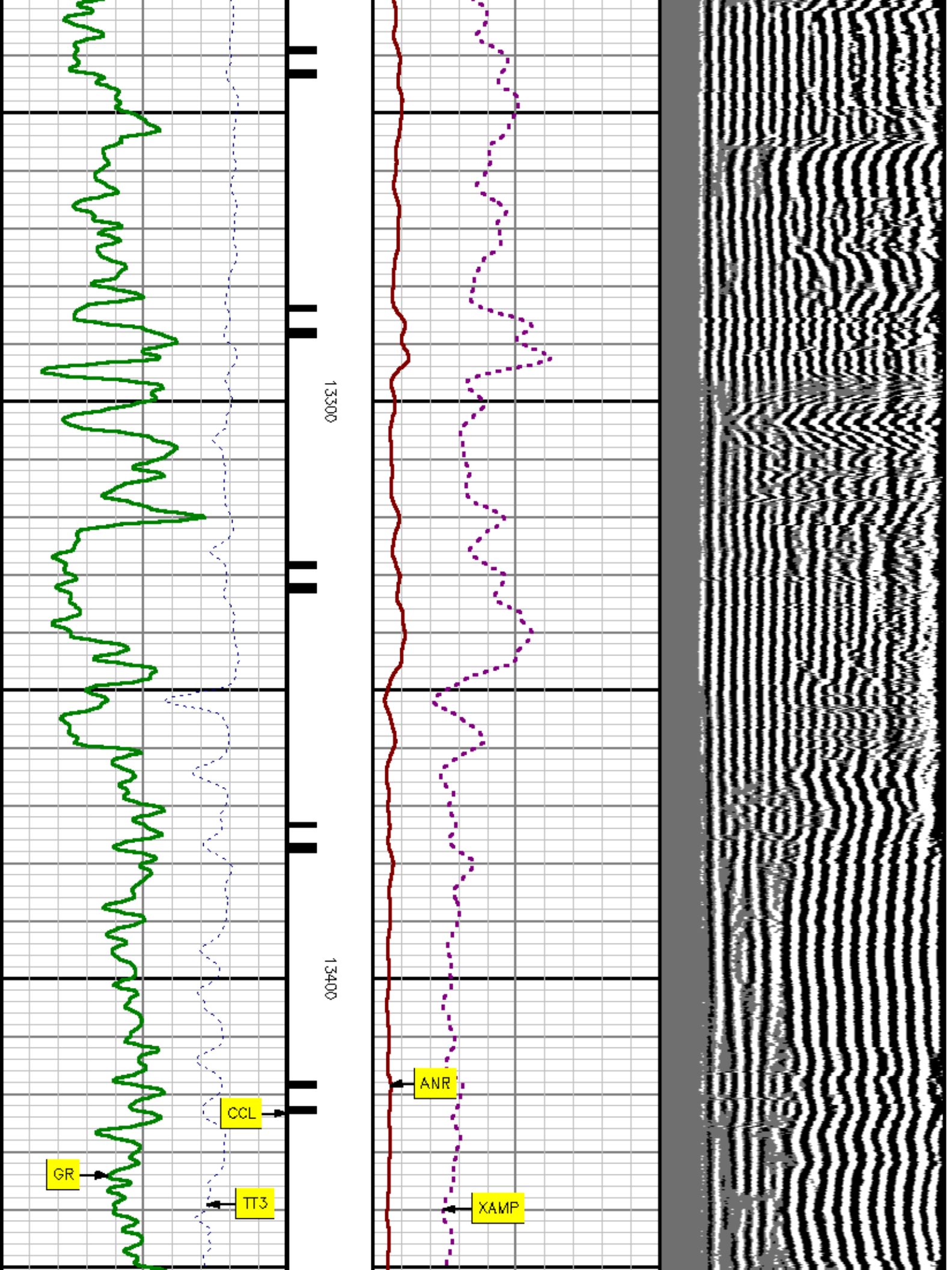


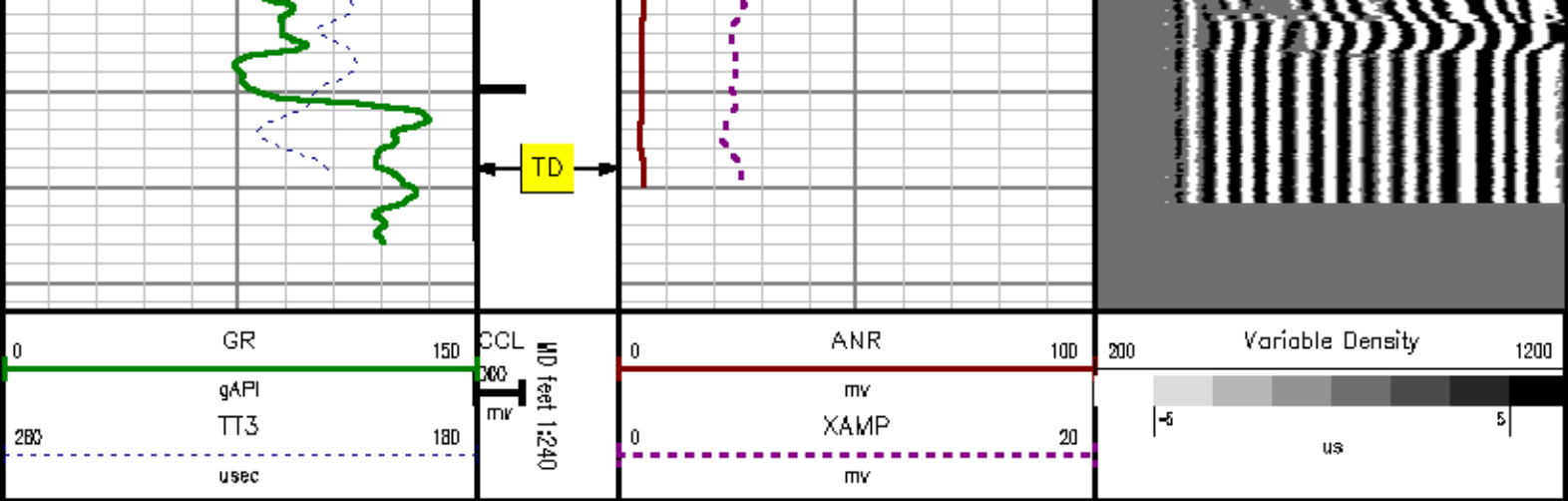
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12700









REPEAT SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	u sec	13229.750	13490.000
RAL	Amp Gate Start Near	197.754	u sec	13229.750	13490.000
RAL	Amp Gate Start Radial	197.754	u sec	13229.750	13490.000
RAL	Amp Gate Width Far	25.000	u sec	13229.750	13490.000
RAL	Amp Gate Width Near	25.000	u sec	13229.750	13490.000
RAL	Amp Gate Width Radial	25.000	u sec	13229.750	13490.000
RAL	casing od	4.500	inches	13229.750	13490.000
RAL	casing wt	15.100	lbm/ft	13229.750	13490.000
RAL	FB Start Far	289.263	u sec	13229.750	13490.000
RAL	FB Start Near	172.754	u sec	13229.750	13490.000
RAL	FB Start Radial	172.754	u sec	13229.750	13490.000
RAL	FB Thresh Far	10.000	mv	13229.750	13490.000
RAL	FB Thresh Near	4.000	mv	13229.750	13490.000
RAL	FB Thresh Radial	4.000	mv	13229.750	13490.000
RAL	Fluid Travel Time	200.000	u sec/ft	13229.750	13489.999

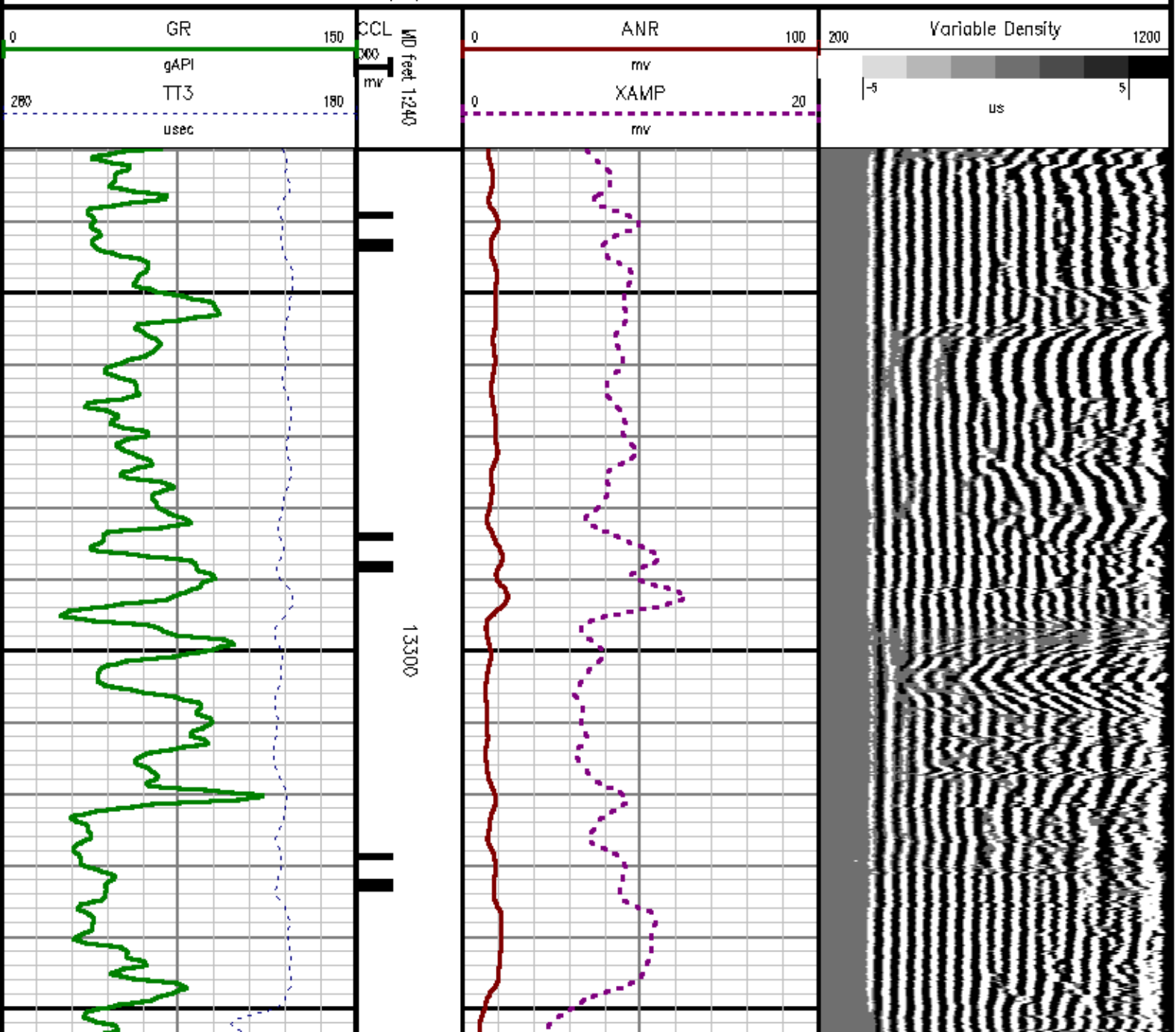
DEPTH OFFSETS (for Acquired Curves)

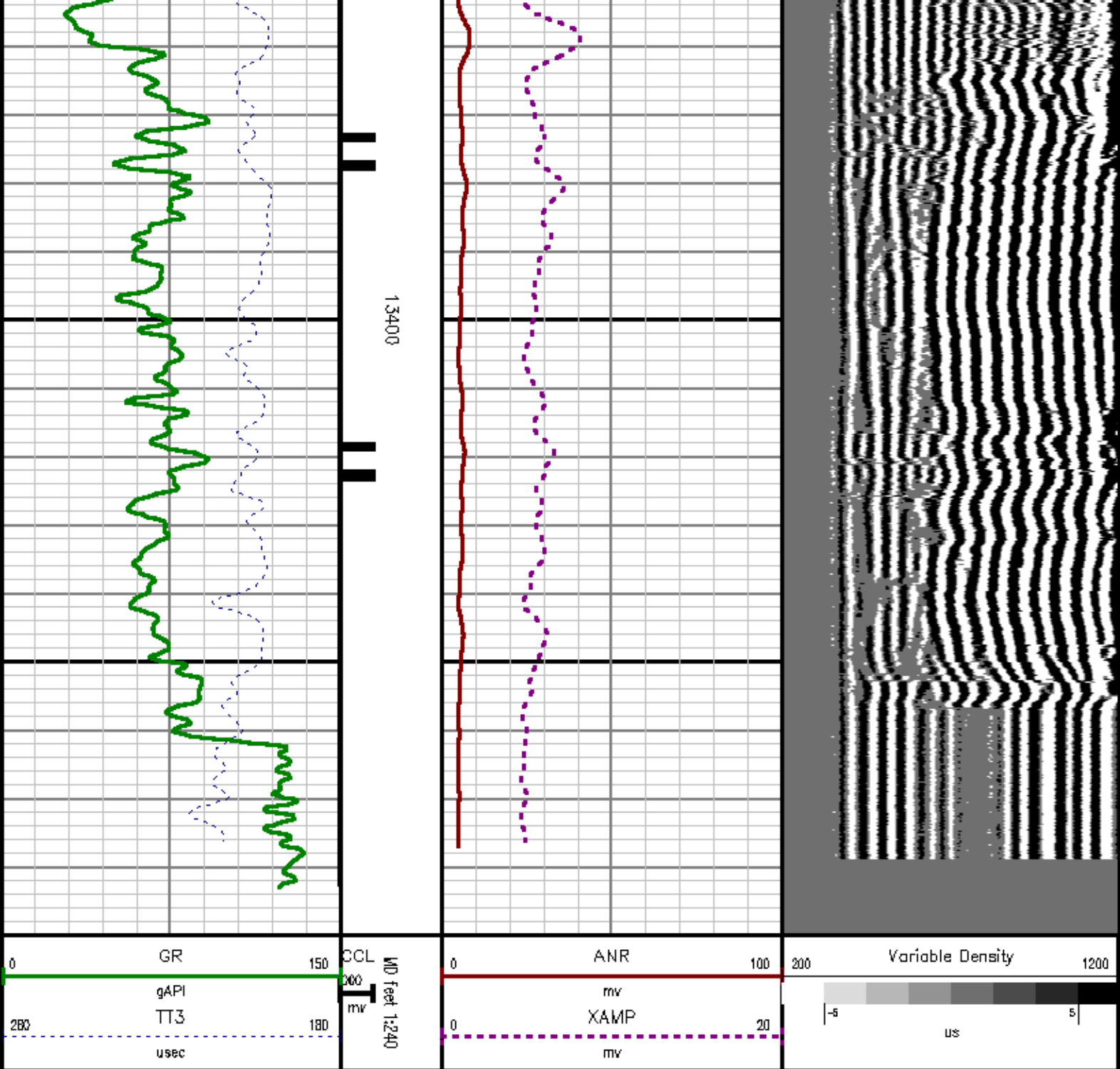
SERIES	DEPTH OFFSET	ACQUIRED CURVES
GR	150	GR
TT3	180	TT3
ANR	100	ANR
XAMP	20	XAMP

1426XA -12.360
 1426XA -11.360
 1426XA -7.250
 1426XA -5.390
 1426XA 0.000

ACAL	ANR	AR1	AR2	AR3	AR4
AR5	AR6	AR7	AR8	CHV	FPR2
FPR3	FPR5	TT3	TTR1	TTR2	TTR3
TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
AFAR	SIG	TT5			
CCL					
GR					
NEU					

Created by : RAL, v4.6.007
 Plotted by : PlotMgr, v5.4.5D4
 Company : EXXONMOBIL PRODUCTION COMPANY
 Well : PCU 197-36A5
 File Name : d:\well\data\5rad\repeat.xtf
 Mode : PlotMgr 5.4.5D4
 Interval : 13230.00 - 13480.00 feet UP
 Created : 6/22/2011 8:48:42 PM





CALIBRATION SUMMARY

RALSHP

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 20 09:30:55 2011 TOOL SERIES: 1426XA ASSET: 957 SEQ: J1

Tool Delay [usec] Tank OD Tank Wt Tank ID

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	220	216	30	166	25	0.042	100.00	0.23
3 Ft. Receiver	219	216	30	166	25	-0.444	100.00	0.22
5 Ft. Receiver	328	329	21	282	25	0.629	150.00	0.24
Radial #1	220	216	30	103	25	-0.304	100.00	0.22
Radial #2	220	216	30	103	25	0.171	100.00	0.22
Radial #3	220	216	30	103	25	0.125	100.00	0.22
Radial #4	219	216	30	103	25	-0.096	100.00	0.22
Radial #5	218	216	30	103	25	-0.367	100.00	0.22
Radial #6	217	216	30	103	25	-0.633	100.00	0.22
Radial #7	217	216	30	103	25	-0.154	100.00	0.22
Radial #8	220	216	30	103	25	-0.021	100.00	0.22

RALFLD

WellSite Calibration: C:\case\calver\RALFLD\957J20 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 20 09:31:50 2011 TOOL SERIES: 1426XA ASSET: 957 SEQ: J20

Tool Delay [usec] Casing OD Casing Wt Casing ID

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	0.022	0.000	1.00	100.000
3 Ft. Receiver	198	25	0.357			
5 Ft. Receiver	314	25	0.767			
Radial #1	198	25	0.462			
Radial #2	198	25	0.559			
Radial #3	198	25	0.556			
Radial #4	198	25	0.544			
Radial #5	198	25	0.518			
Radial #6	198	25	0.434			
Radial #7	198	25	0.421			
Radial #8	198	25	0.380			

GAMMA RAY

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jun 11 11:43:50 2011 TOOL SERIES: 1426XA ASSET: 457 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	82.04	343.78	0.707	57.99	242.99	185.00

Verification File: C:\cgsa\cal\ver\GR\457\J2.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sat Jun 11 11:44:57 2011 TOOL SERIES: 1426XA ASSET: 457 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K DA612	83.64	339.13	0.707	59.12	239.70	180.58

TOOL DIAGRAM

OTA SHORT CABLE HEAD

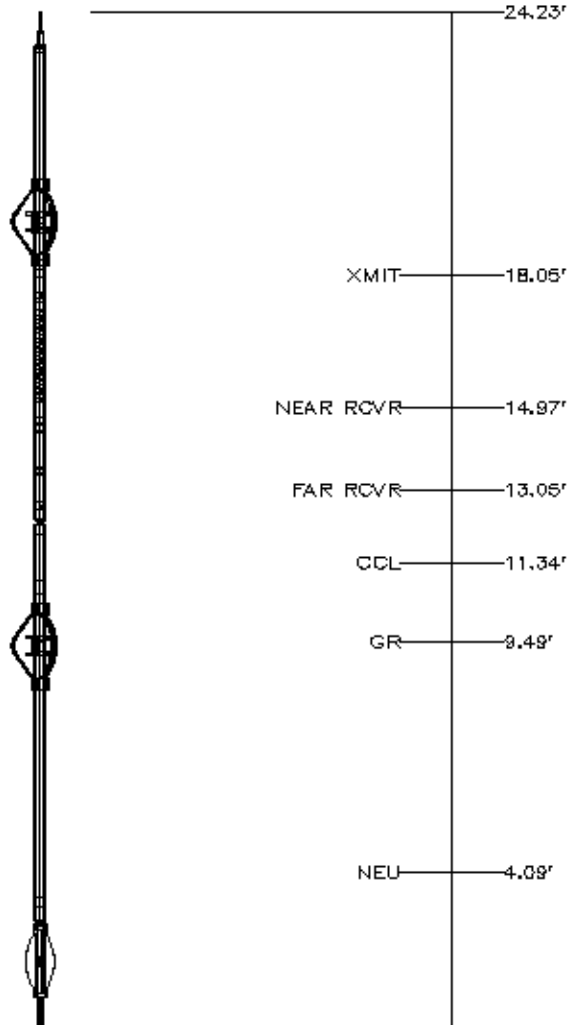
PROBE 2 3/4 DUAL RECEIVER RADII (1426XA)

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: 24.23'
Total Weight: Not Available
Max Diameter: 0' 3.12"

0.00'



Company EXXONMOBIL PRODUCTION COMPANY
Well PCU 197-3645
Field PICEANCE CREEK UNIT
County RIO BLANCO State COLORADO

File No: CH0372025
API No: 05103111840000

Baker Atlas



Location:
1848' FSL & 2813' FWL
SEC: 38 TWP: 1S RGE: 97W

Elevations
KB 7144 ft
DF 7143 ft
GL 7114 ft