



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	EXXONMOBIL PRODUCTION COMPANY
CH038002	Well	PCU 296-5A6
API No.	Field	PICEANCE CREEK
00103112400000	Country	RIO BLANCO
	State	COLORADO
Location:		Other Services
SHA: 682' PUL & 536' PUL		RPM
SEC: 5	TWP: 25	RGE: 868
Permanent Datum	G.L.	Elevation
Log Measured From	K.B.	30.2 ft
Drill Measured From	KELLY BUSHING	Above P. D.
		Elevations
		KB 7358.2 ft
		DF 7358.2 ft
		GL 7309 ft

Date	13-JULY-2011	
Run	ONE	
Service Order	575323	
Depth Driller	13903 ft	
Depth Logger	13908 ft	
Bottom Logged Interval	13906 ft	
Top Logged Interval	8000 ft	
Time Started	09:30	
Time Finished	13:30	
Operator Rig Time	4 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	45 fpm	
Maximum Recorded Temperature	288 degF	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment	Location	GRAD JOT, CO
Recorded By	TIM KAUTT	
Witnessed By	MR. JIM PETERSON	

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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		
6.125 In		

Casing Record				
Size	Weight	Grade	From	To
7 In	26 lbm/ft	P-110	SURFACE	10554 ft
4.5 In	15.1 lbm/ft	P-110	SURFACE	13903 ft

Remarks
Short joints are marked on log.
The crew of 4271 Thanks You.

Equipment Data				
Run	Trip	Tool	Series Number	Serial Number

	1	WANDREL	1426XA	10154957	CENTRALIZED
1	1	GAMMA RAY	2456XA	10417457	CENTRALIZED

MAIN SECTION.

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	5962.199	13850.000
RAL	Amp Gate Start Near	197.754	usec	5962.199	13850.000
RAL	Amp Gate Start Radial	197.754	usec	5962.199	13850.000
RAL	Amp Gate Width Far	25.000	usec	5962.199	13850.000
RAL	Amp Gate Width Near	25.000	usec	5962.199	13850.000
RAL	Amp Gate Width Radial	25.000	usec	5962.199	13850.000
RAL	casing od	4.500	inches	5962.199	13850.000
RAL	casing wt	15.100	lbm/ft	5962.199	13850.000
RAL	FB Start Far	289.263	usec	5962.199	13850.000
RAL	FB Start Near	172.754	usec	5962.199	13850.000
RAL	FB Start Radial	172.754	usec	5962.199	13850.000
RAL	FB Thresh Far	10.000	mv	5962.199	13850.000
RAL	FB Thresh Near	4.000	mv	5962.199	13850.000
RAL	FB Thresh Radial	4.000	mv	5962.199	13850.000
RAL	Fluid Travel Time	200.000	usec/ft	5962.199	13850.000

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.D07

Plotted by : PlotMgr, v5.4.5D4

Company : EXXONMOBIL PRODUCTION COMPANY

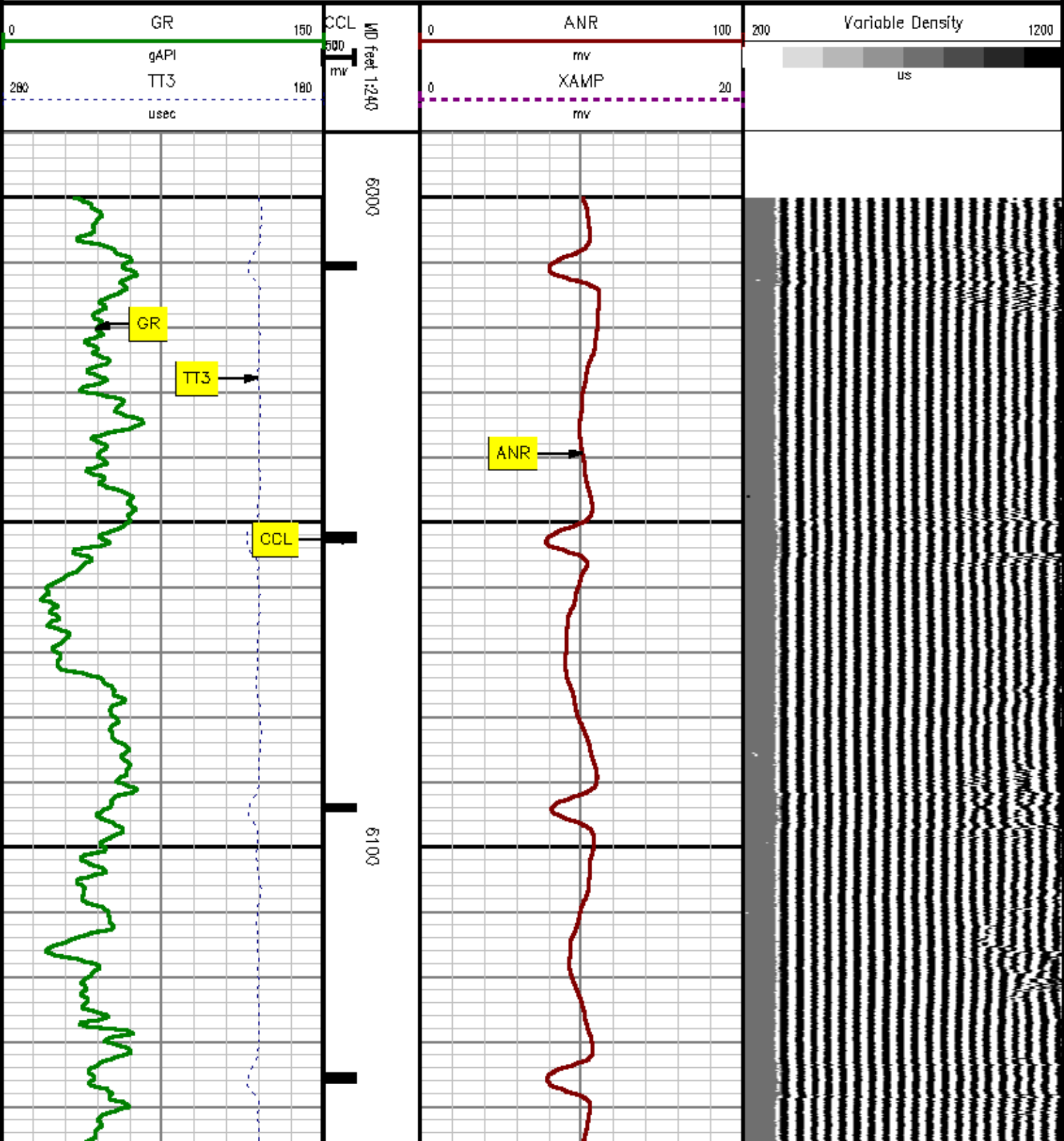
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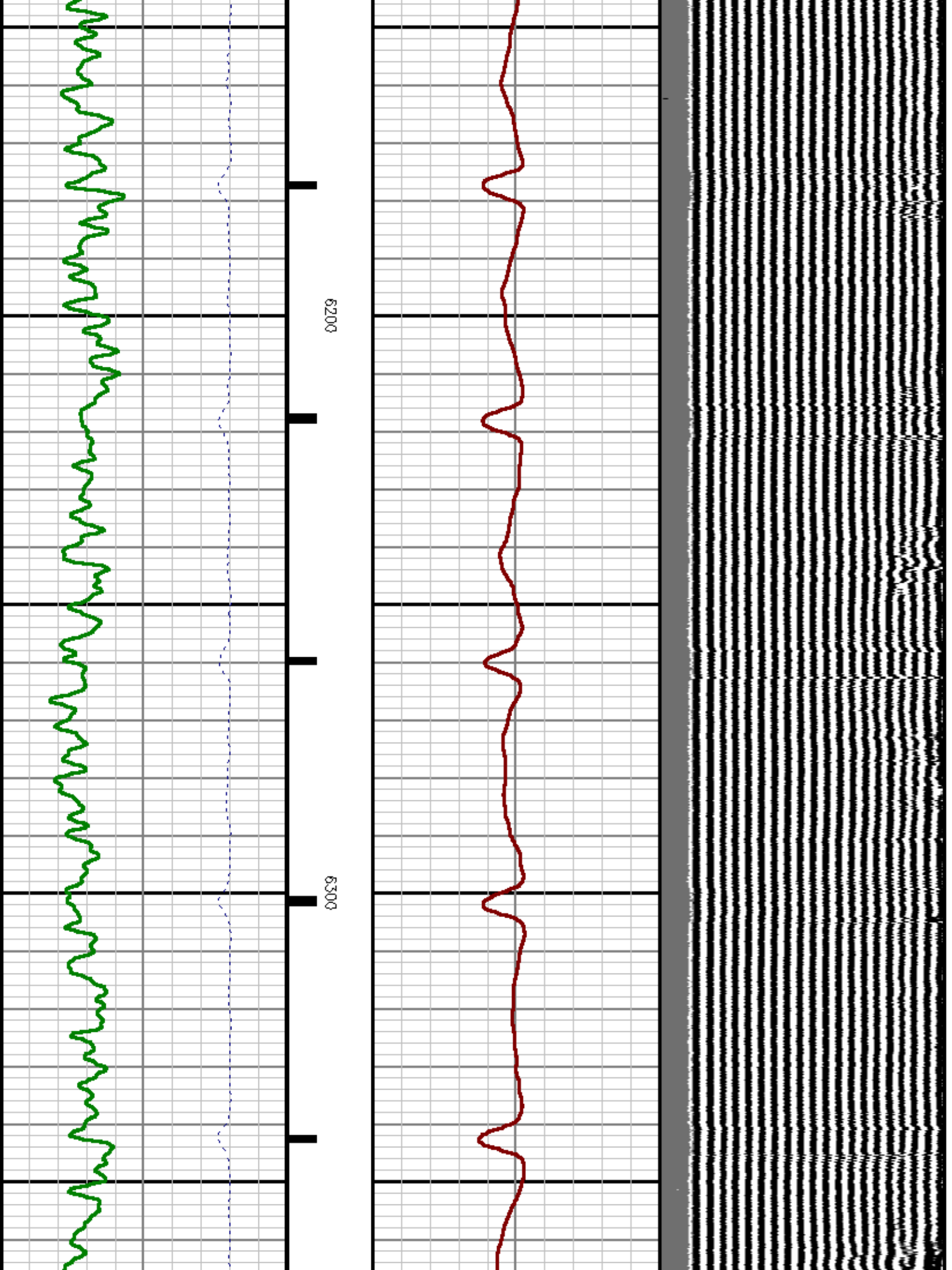
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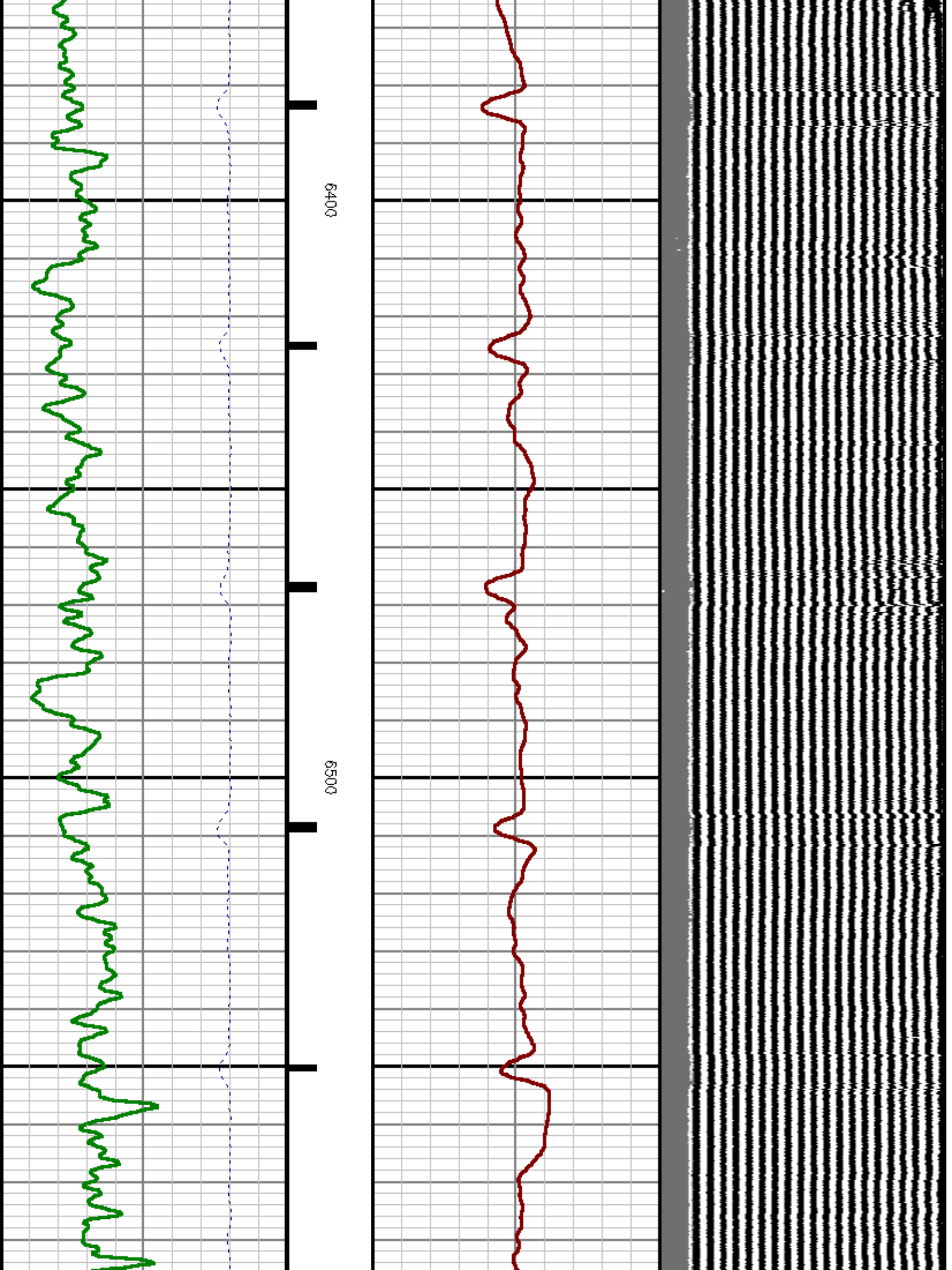
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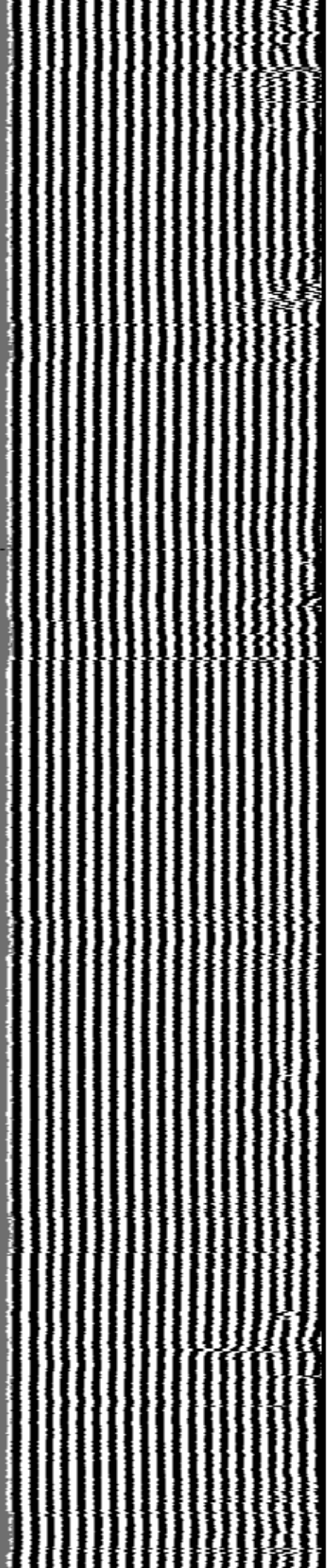
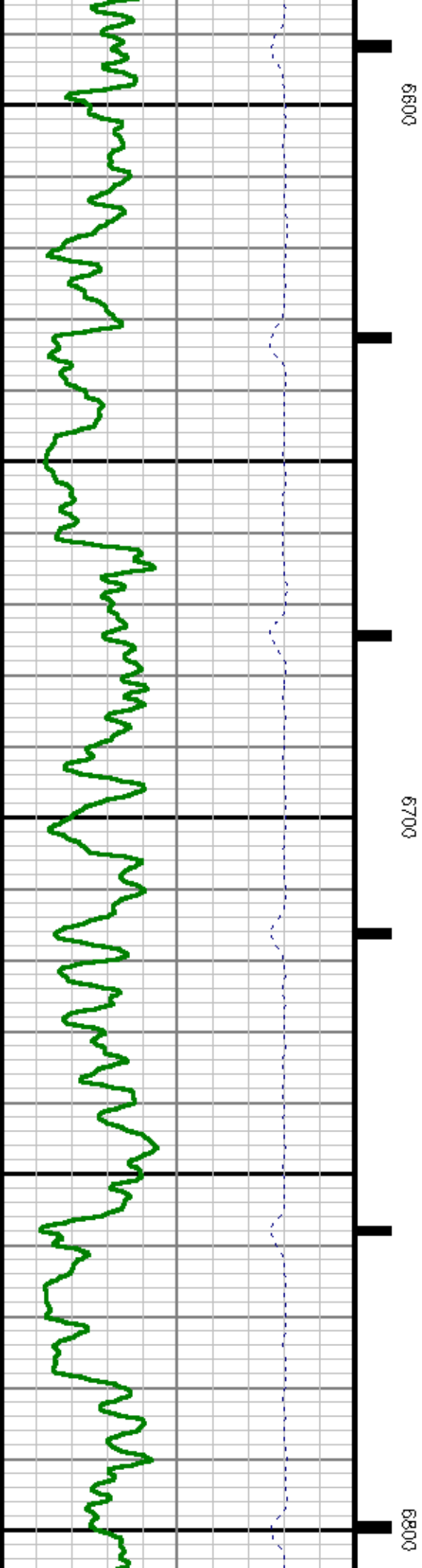
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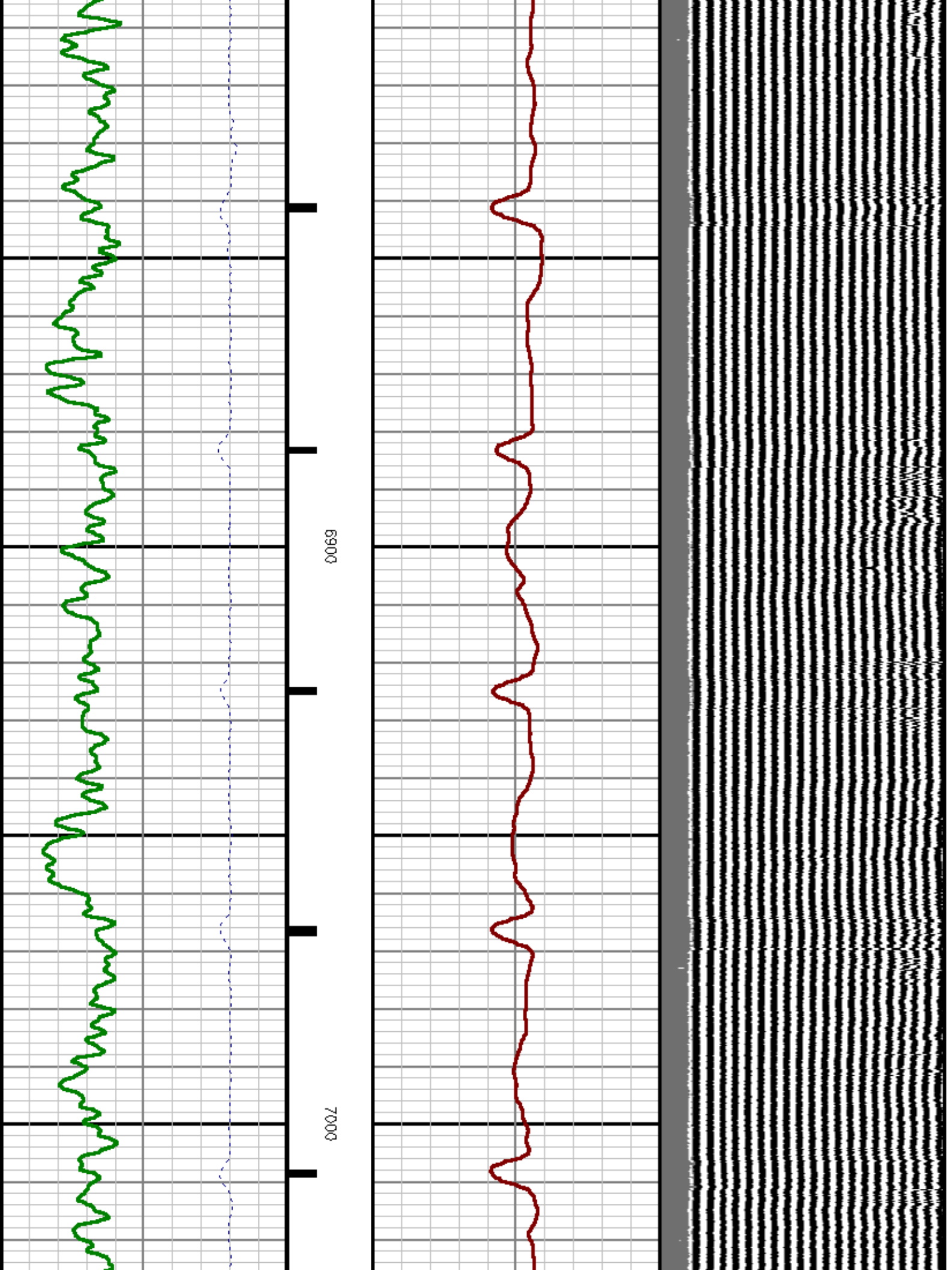
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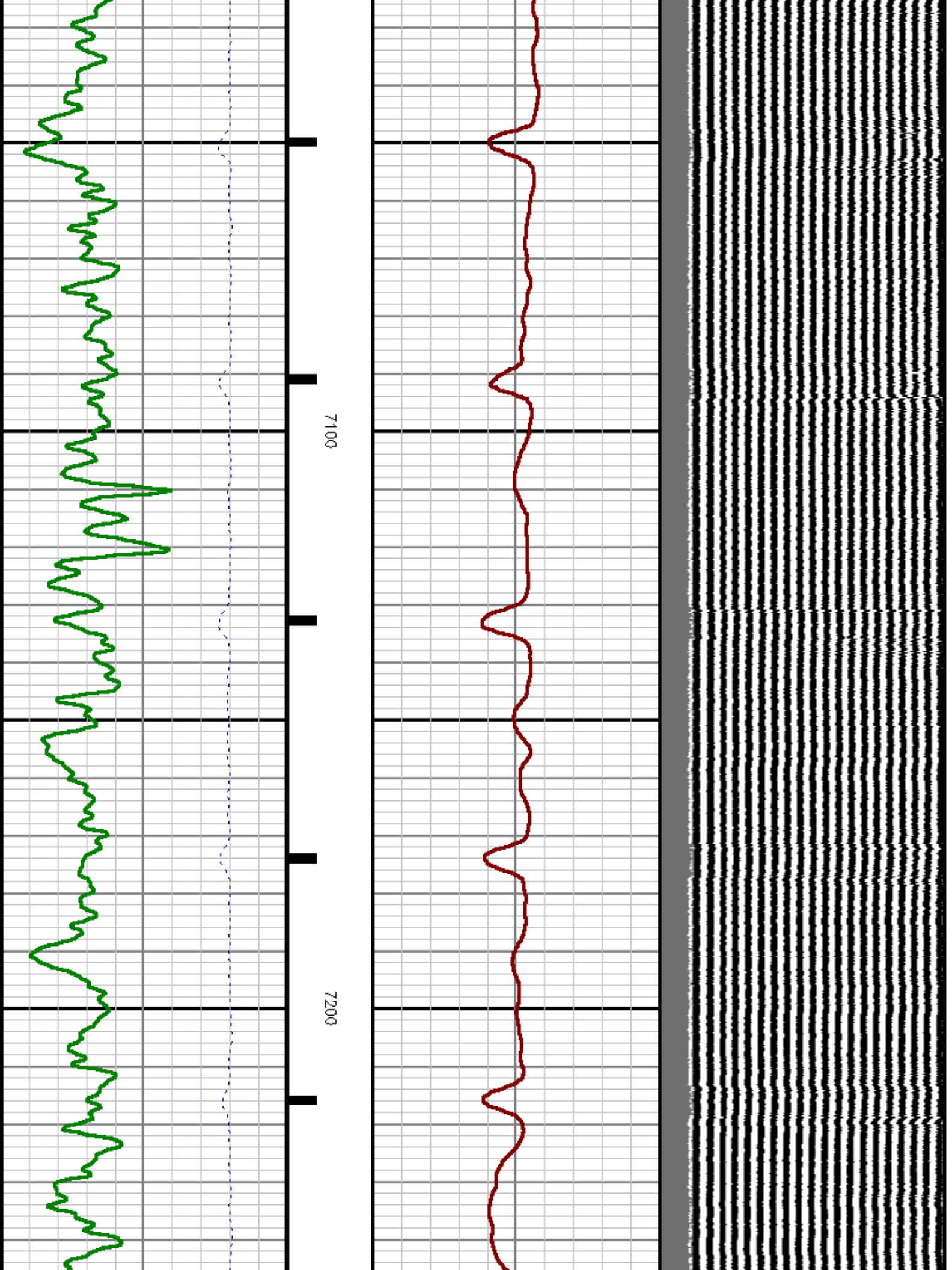


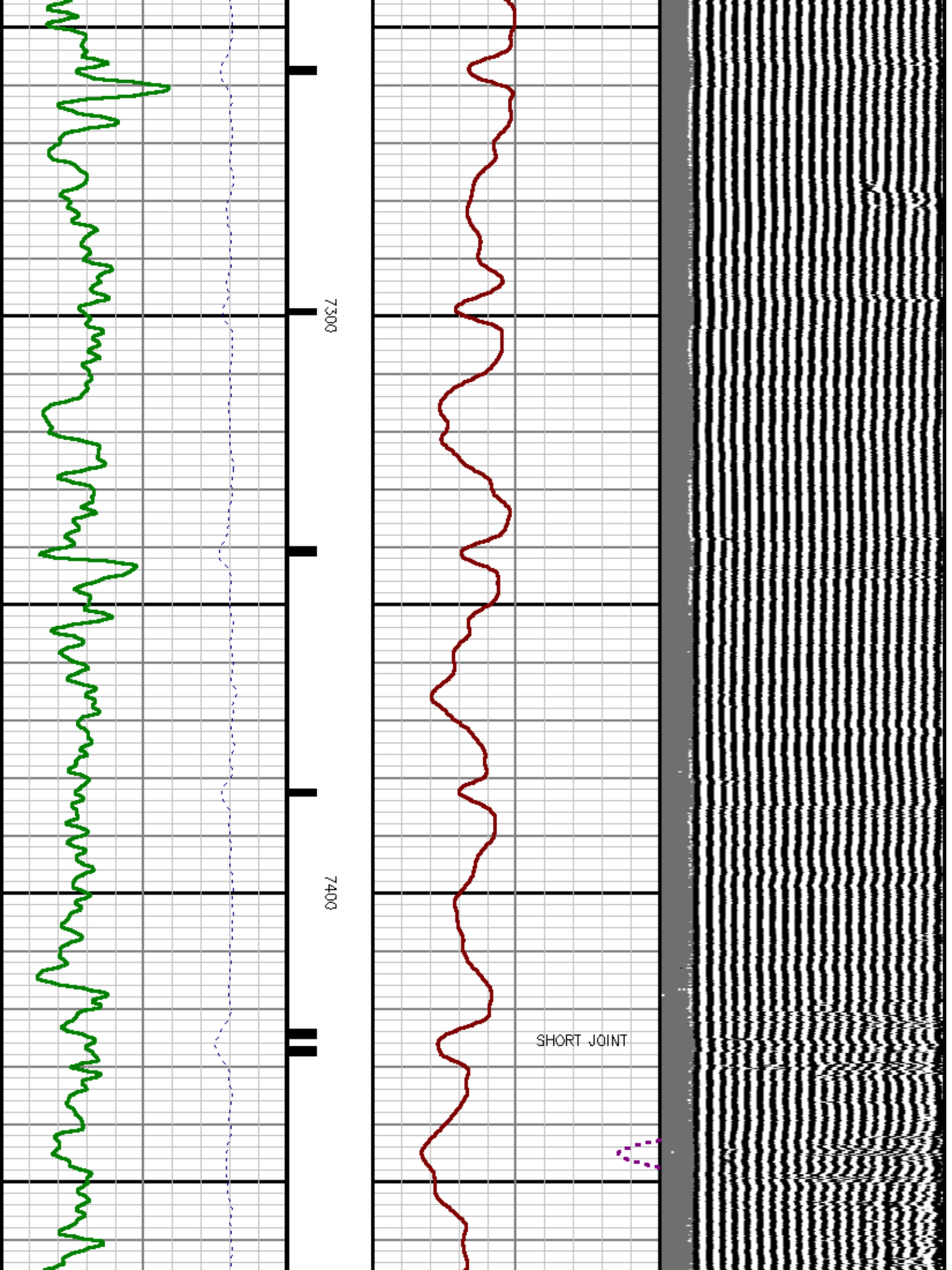


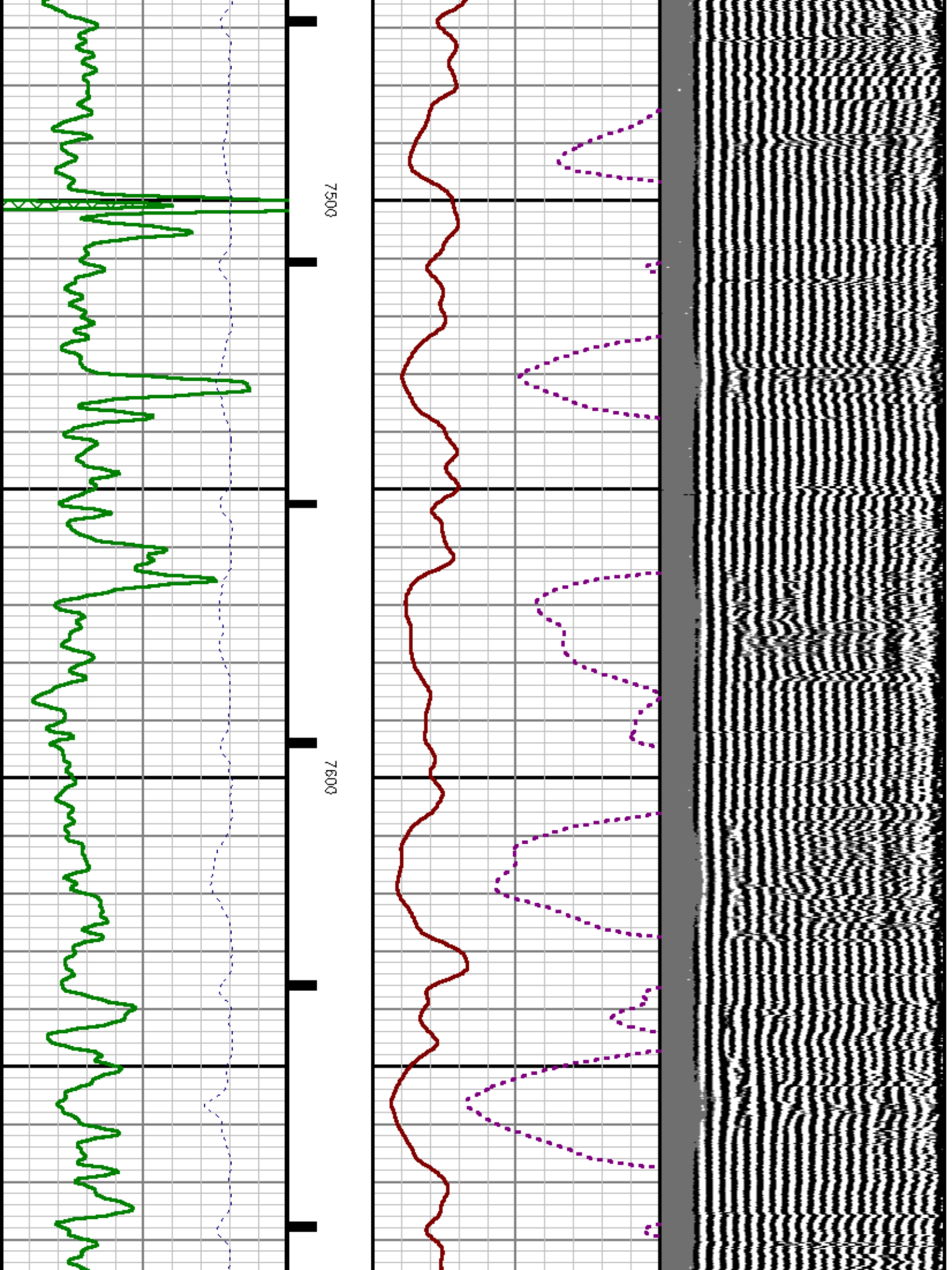


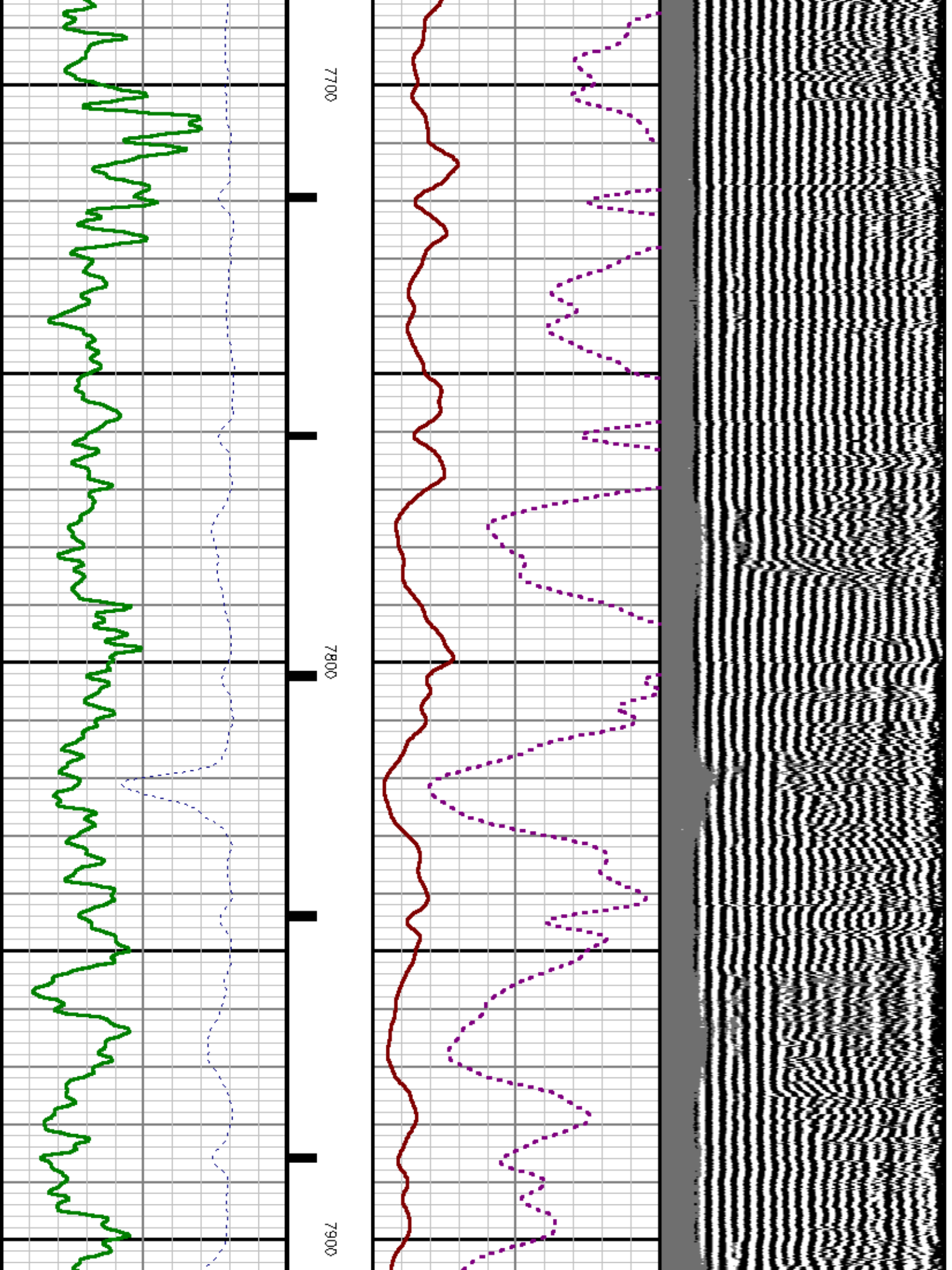


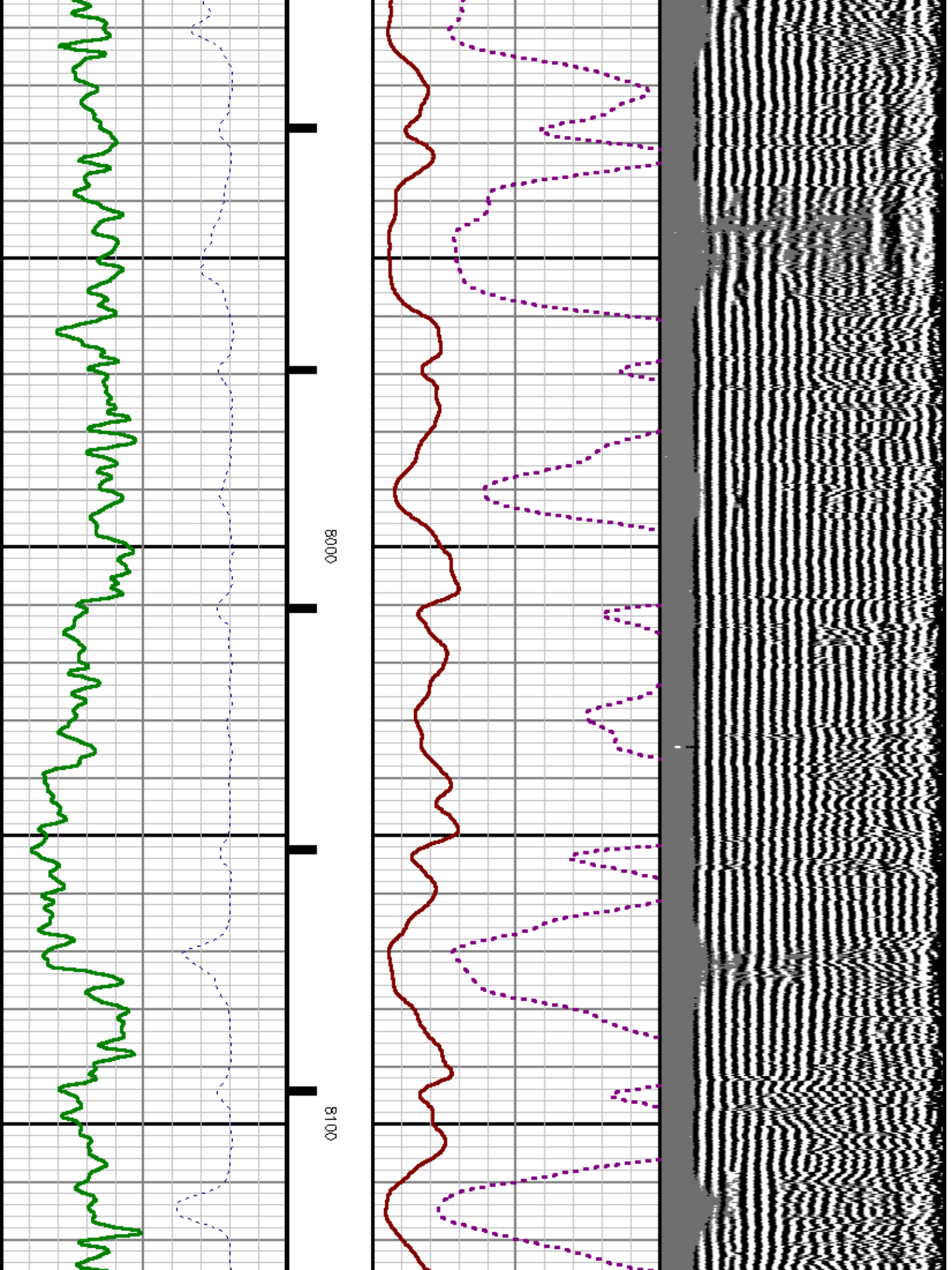


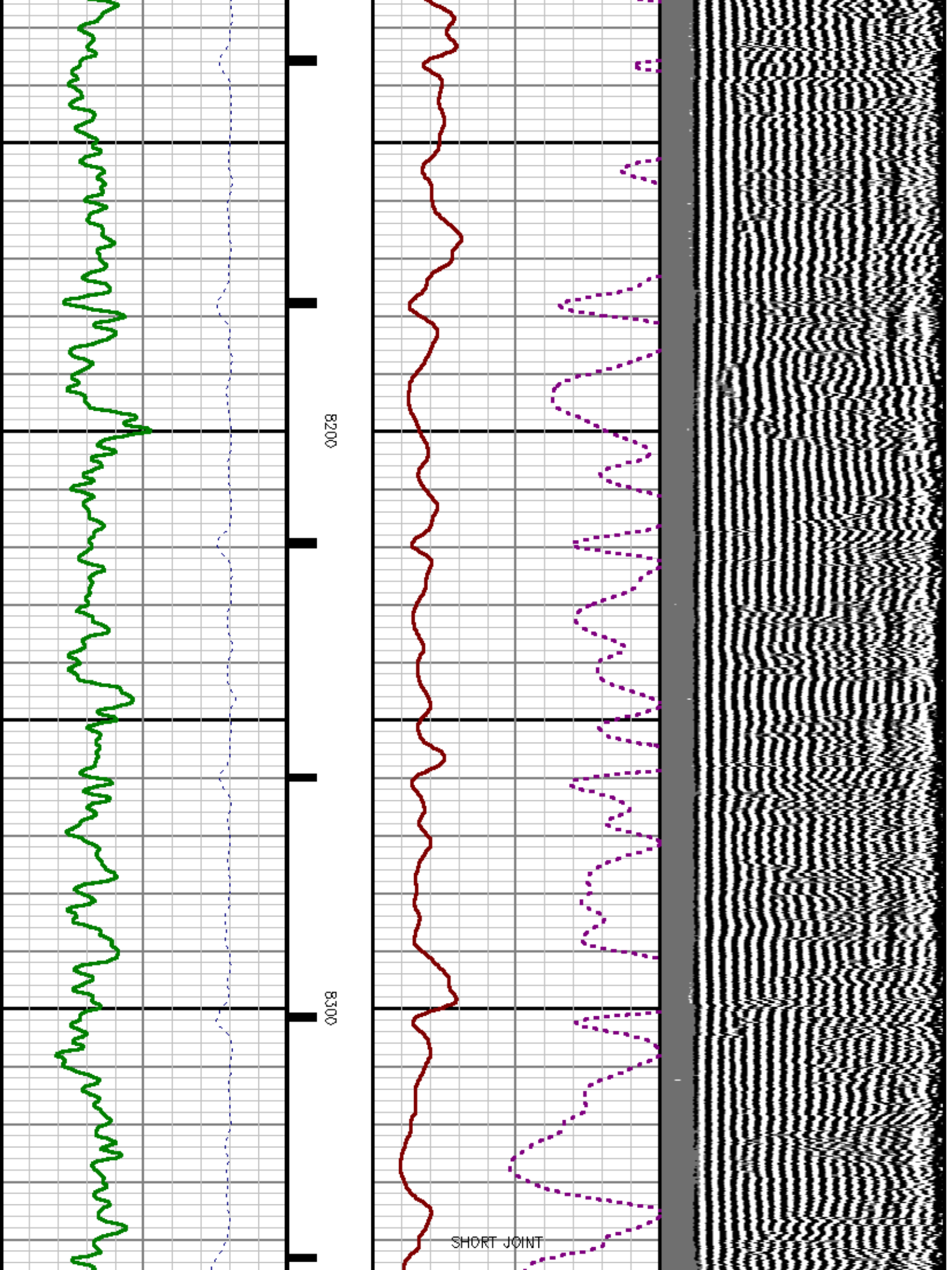


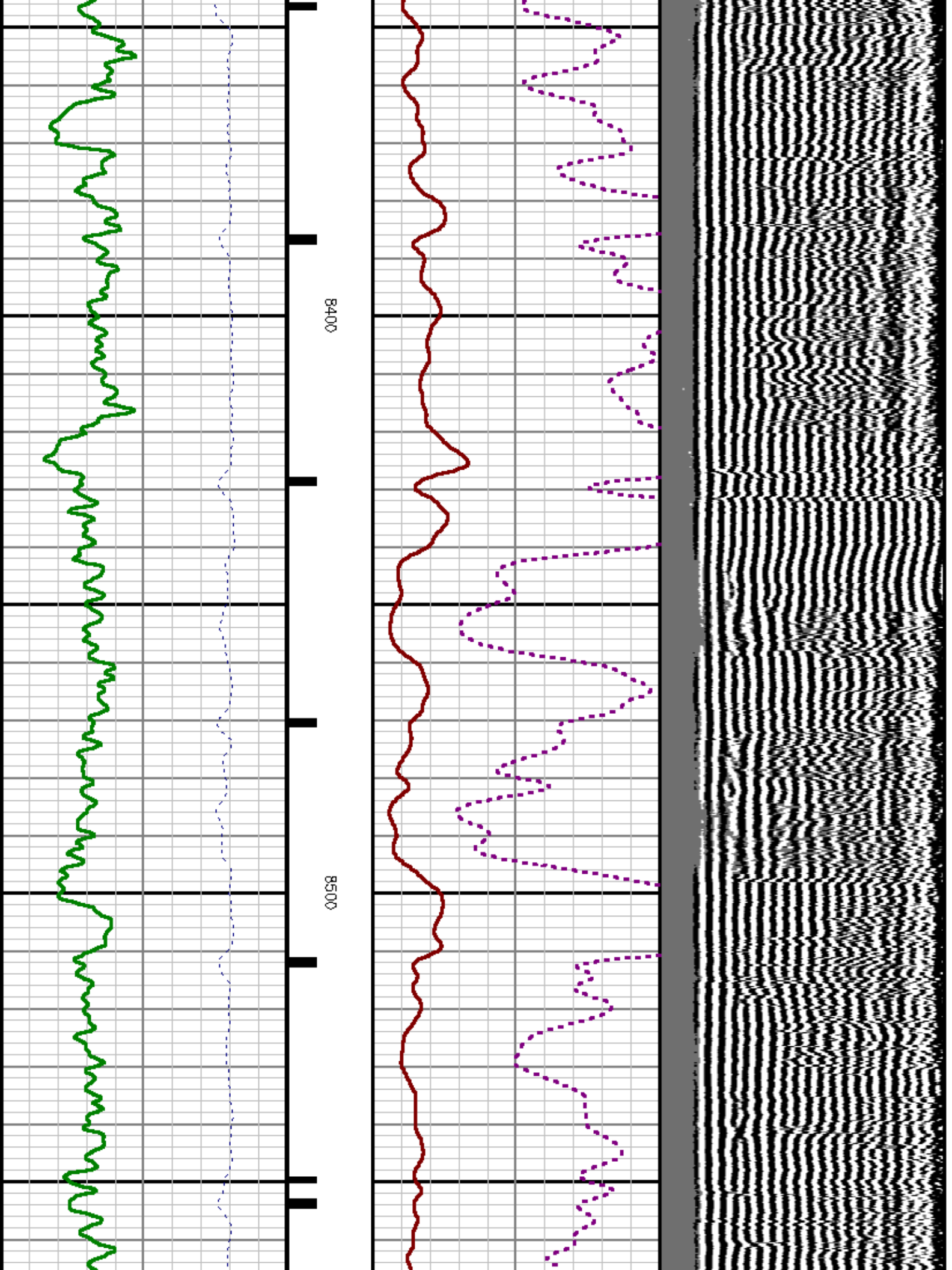


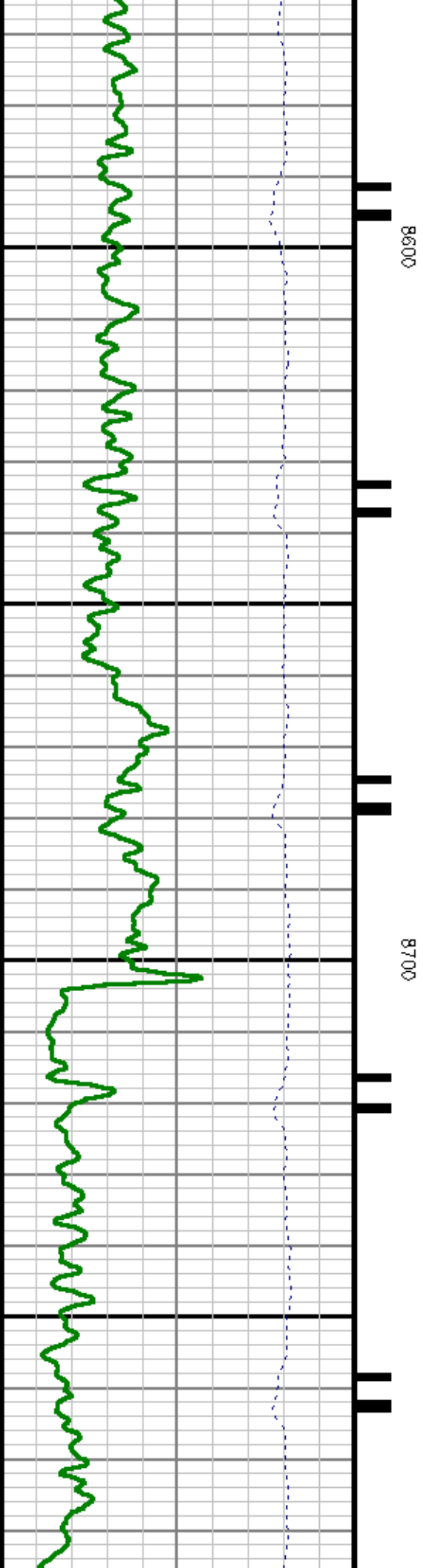
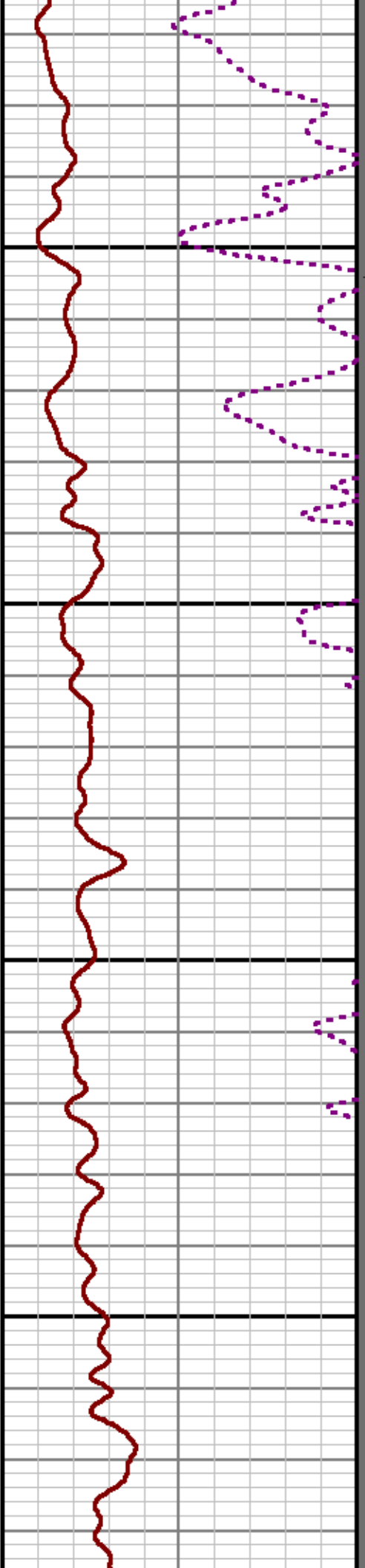
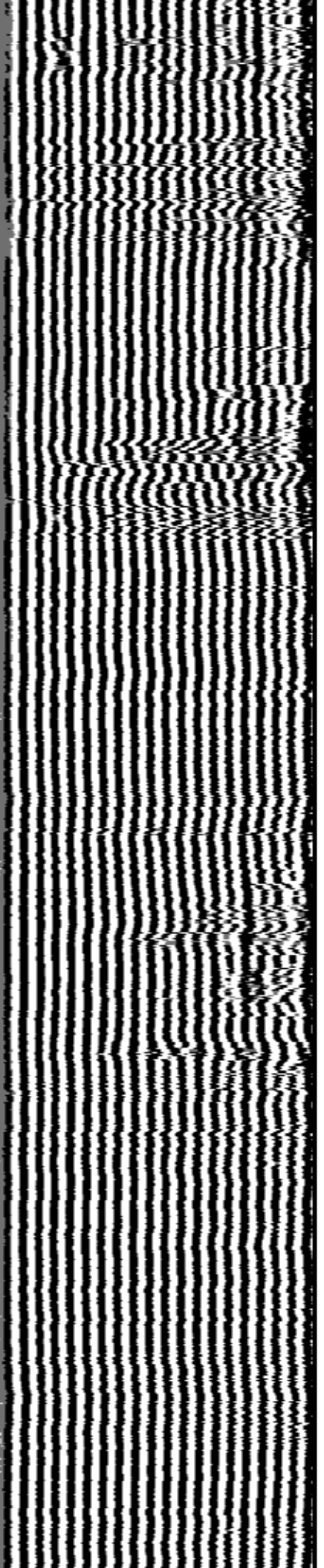


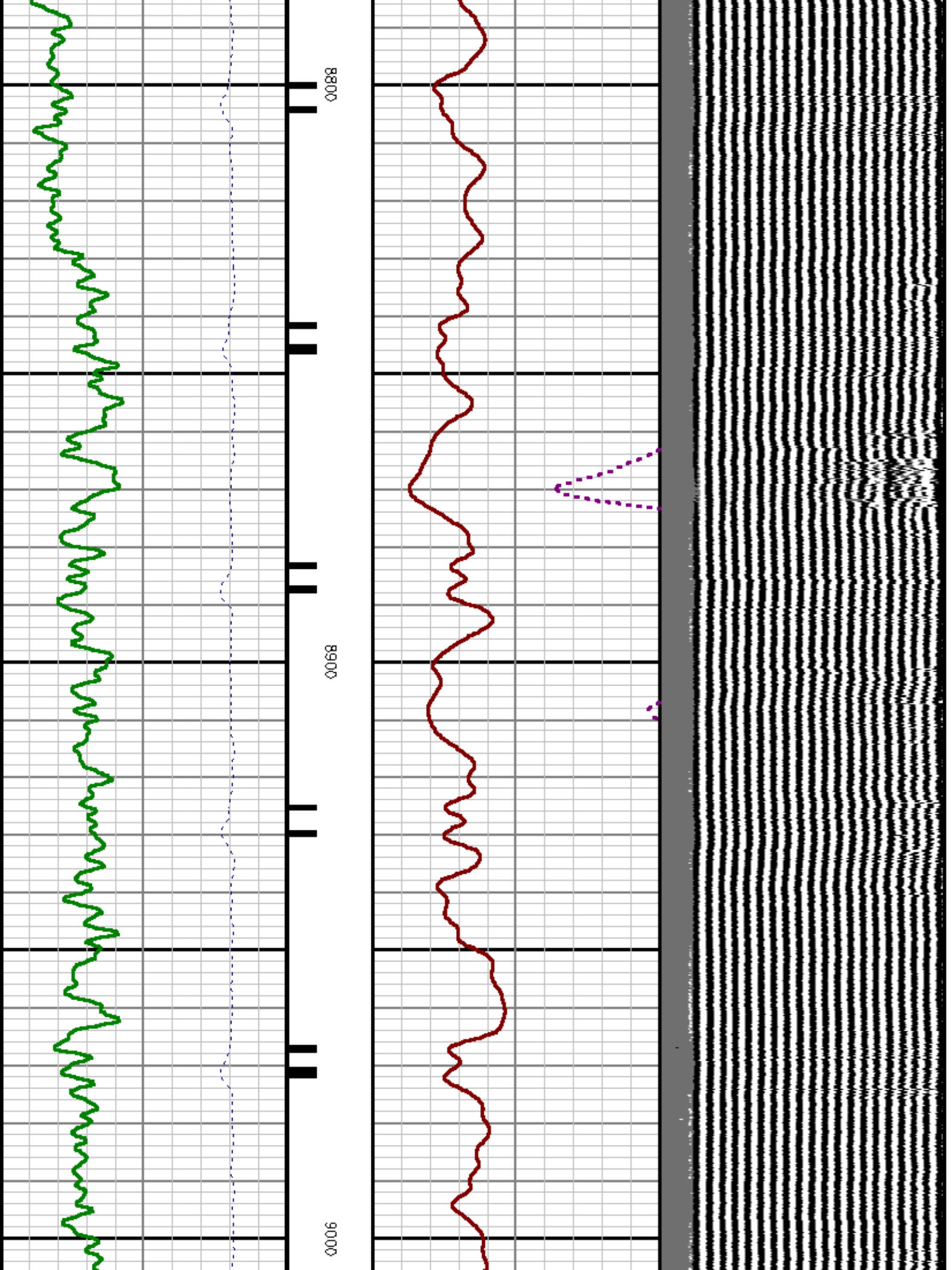


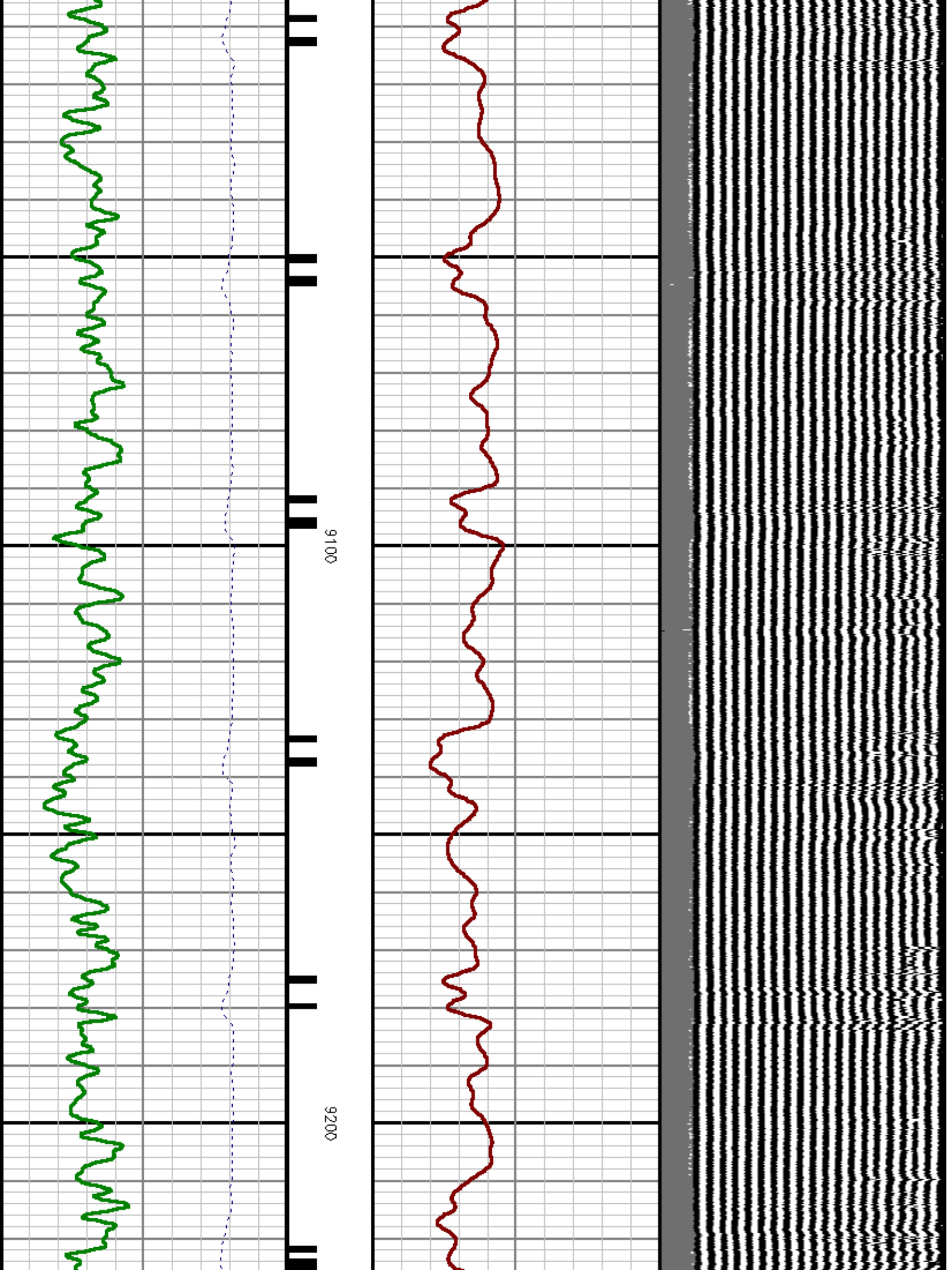


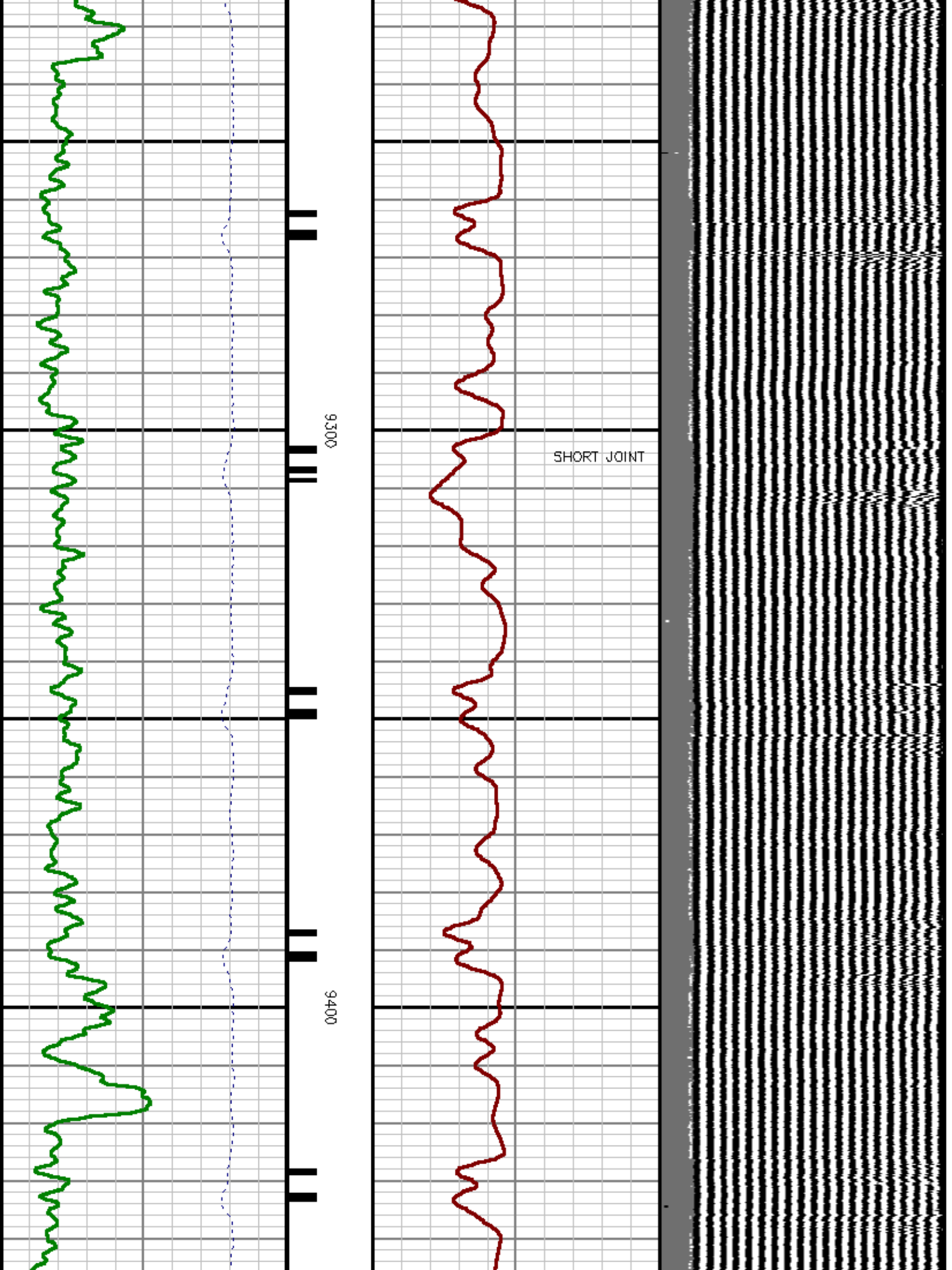


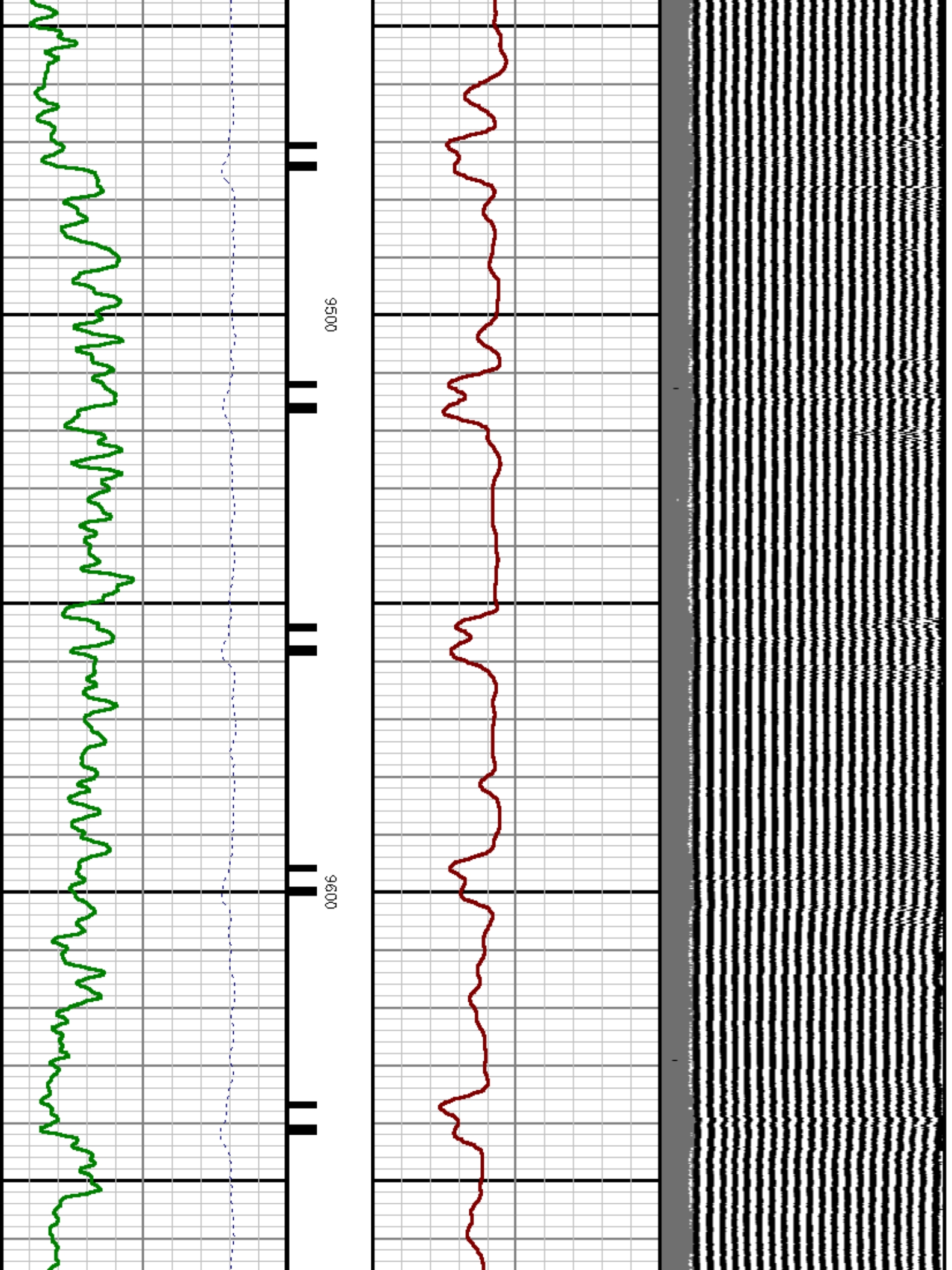


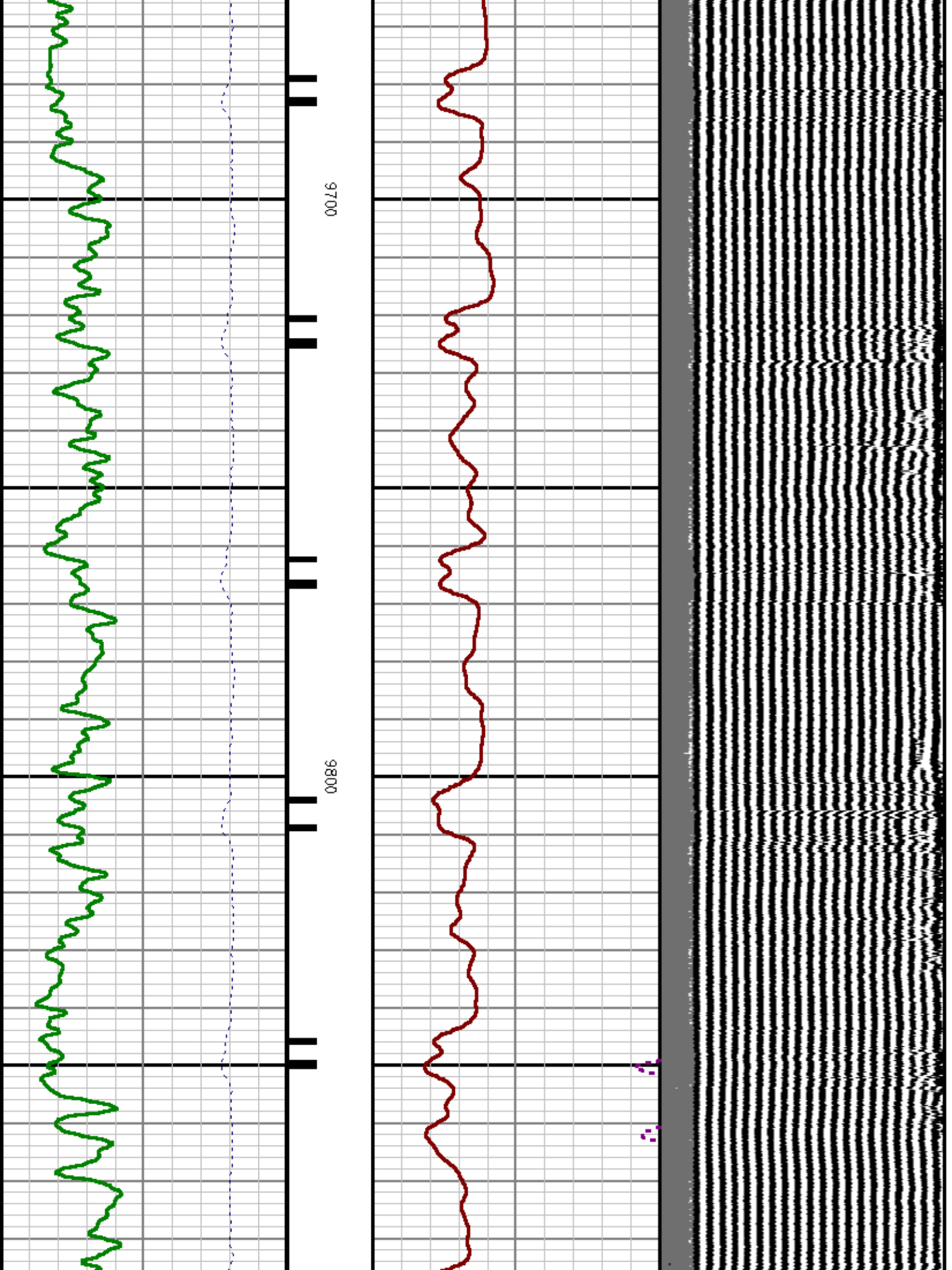


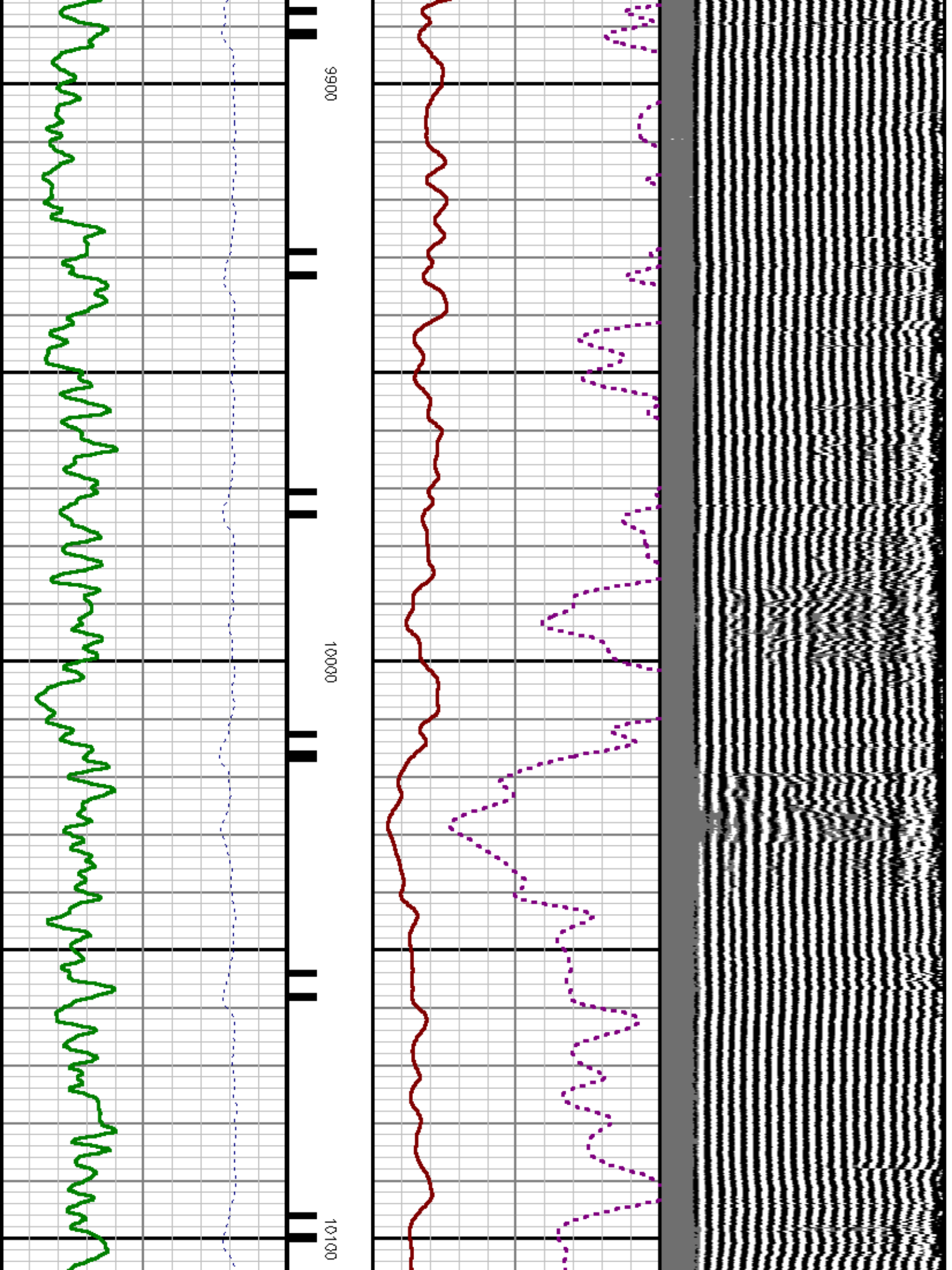


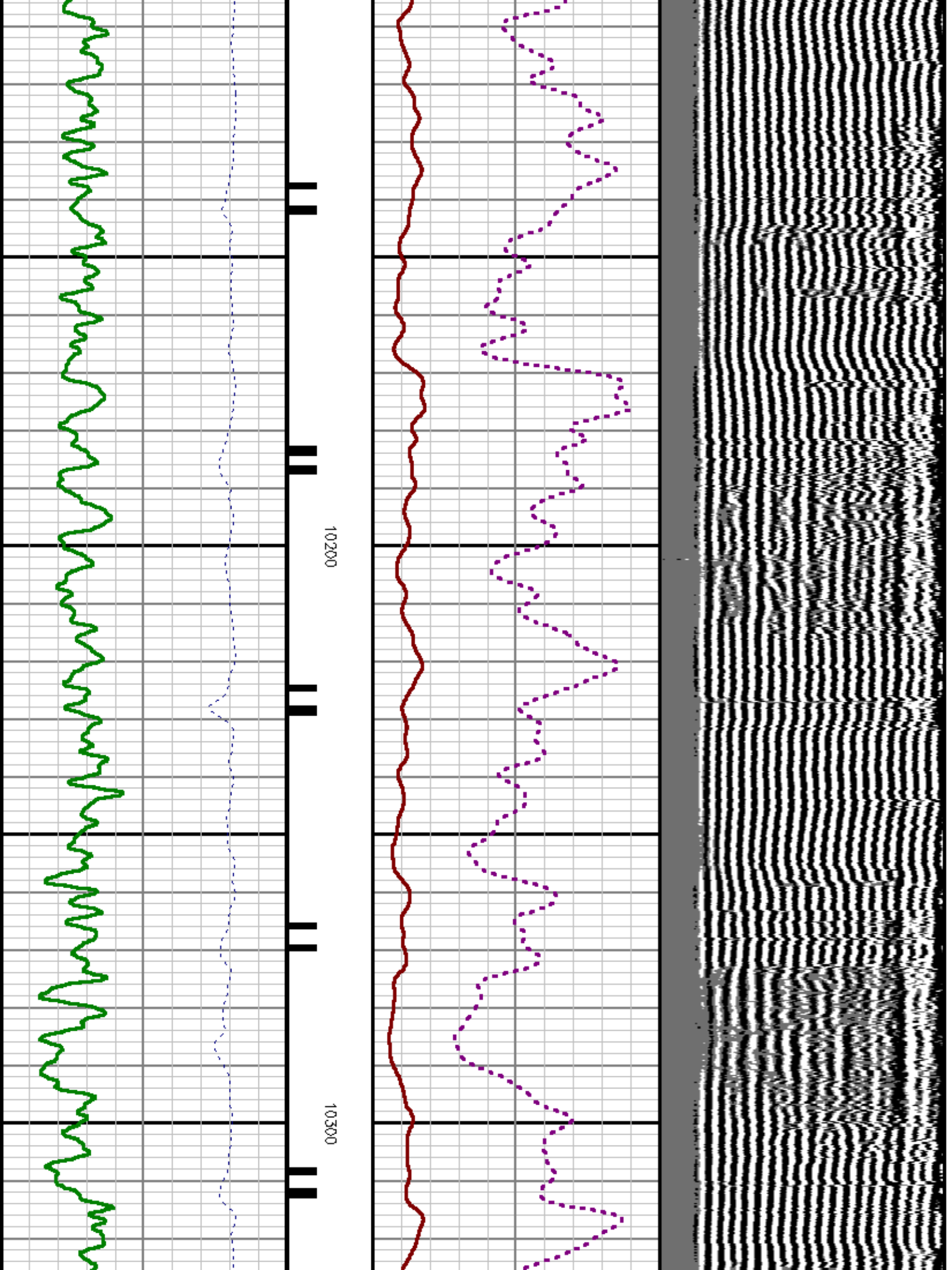


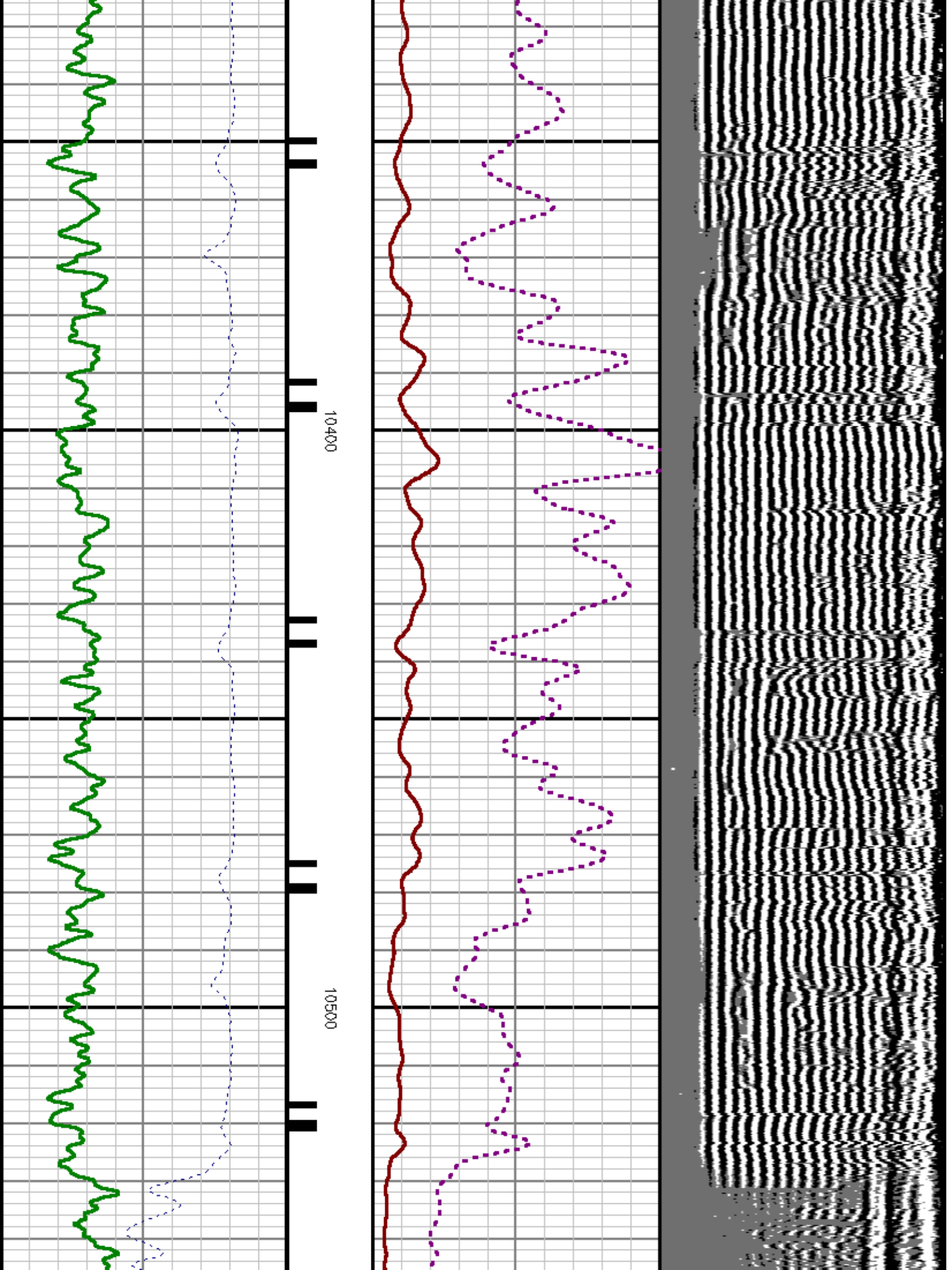


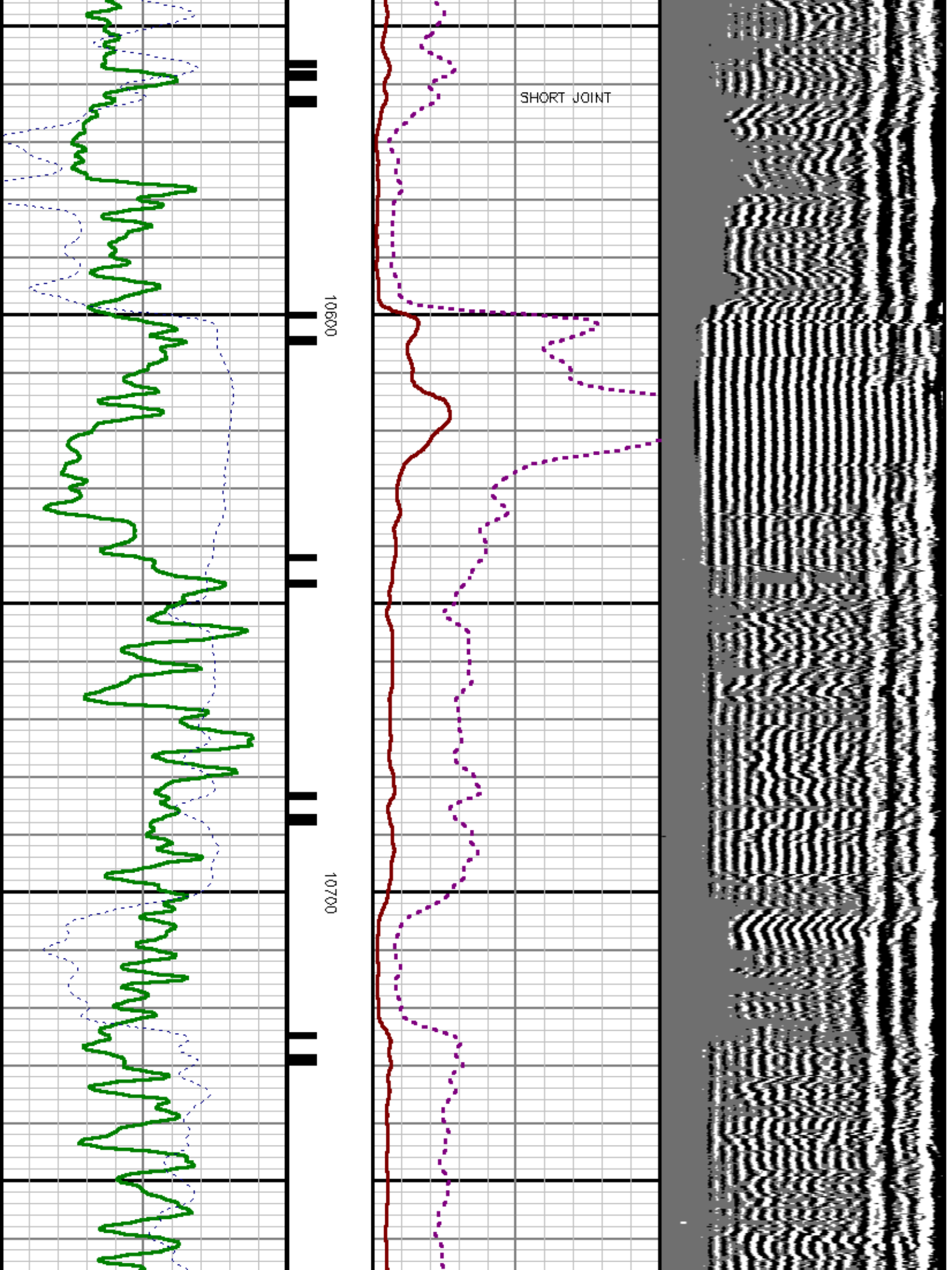


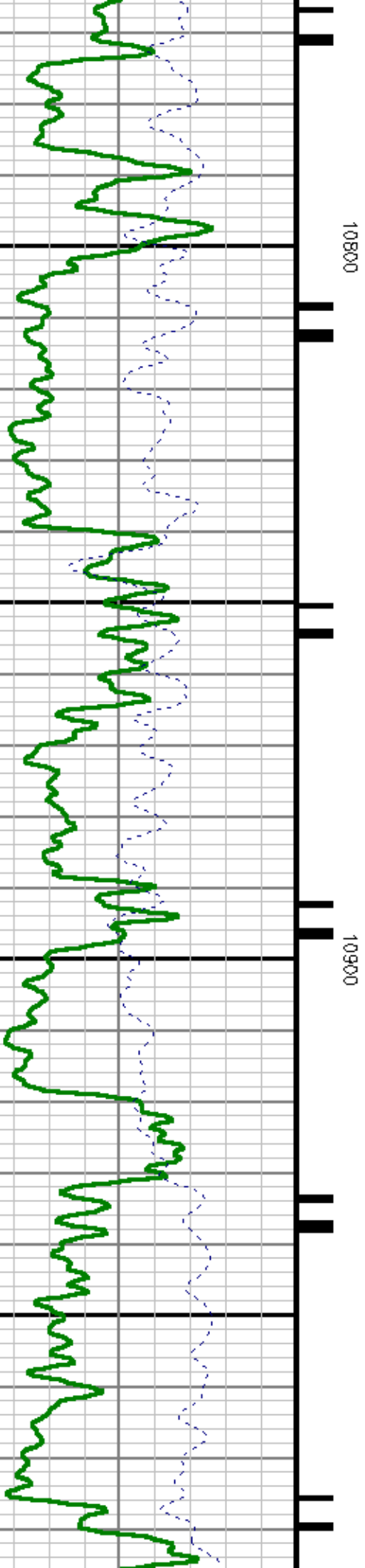
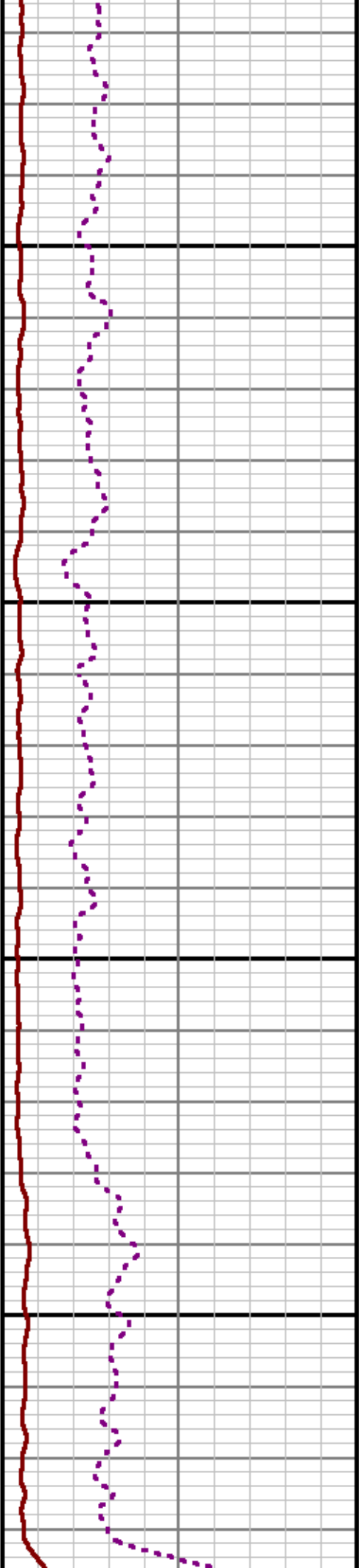
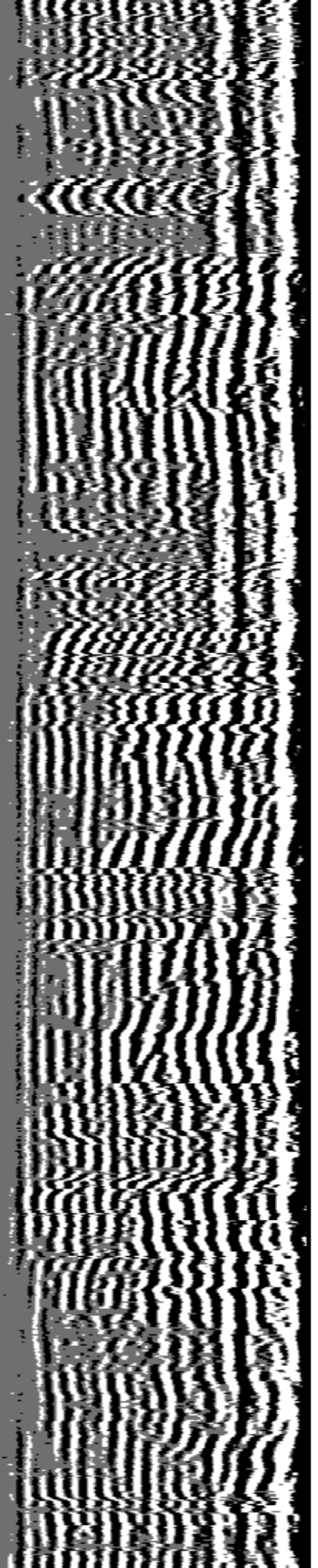


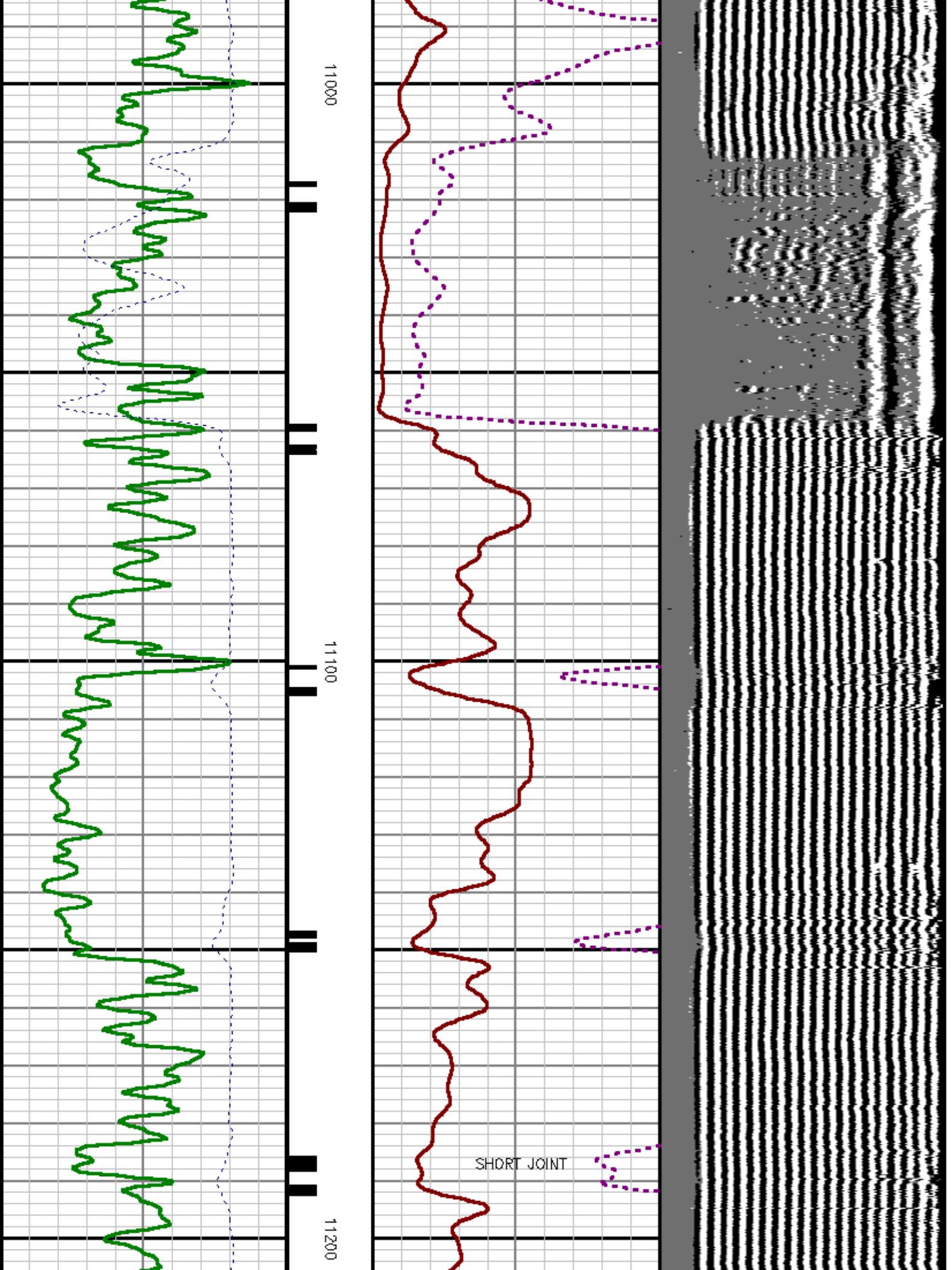


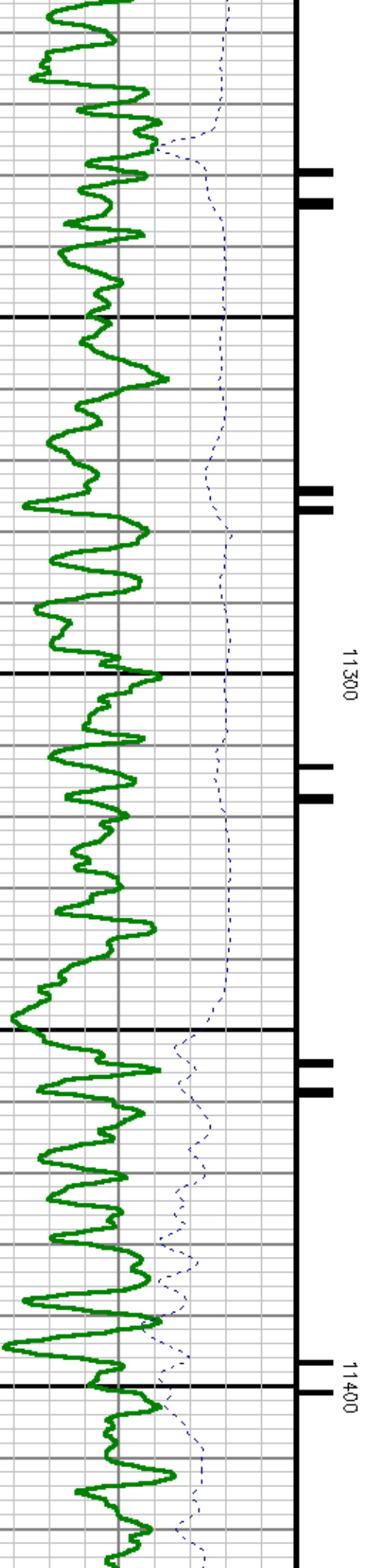
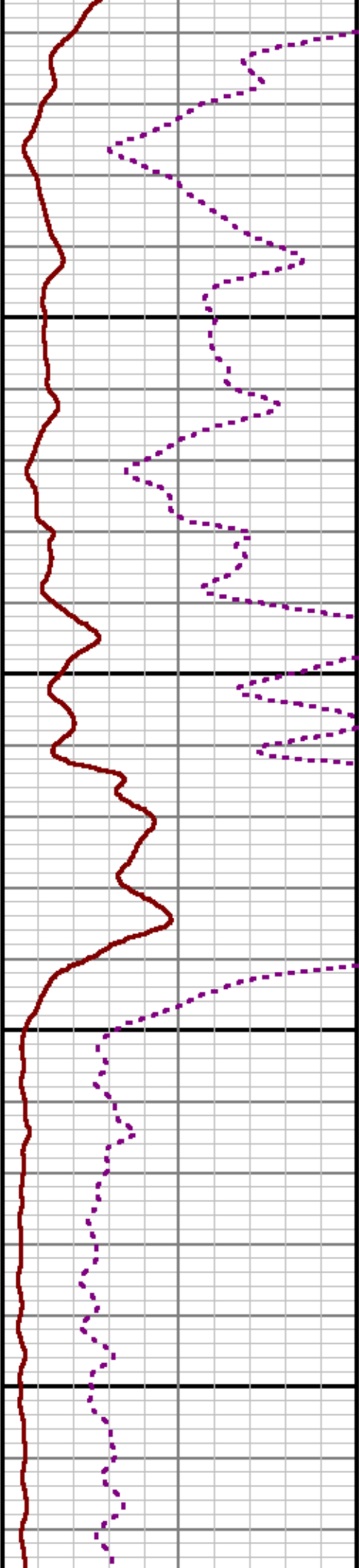
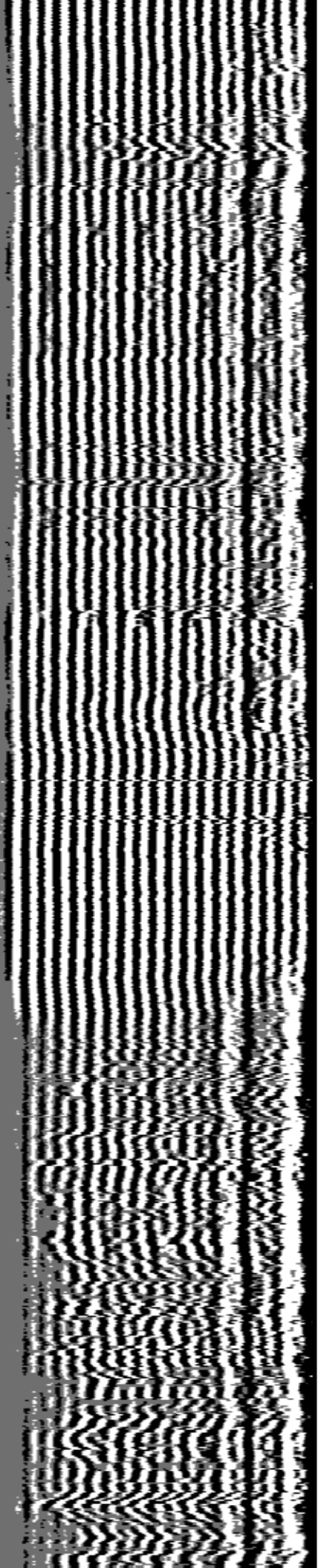


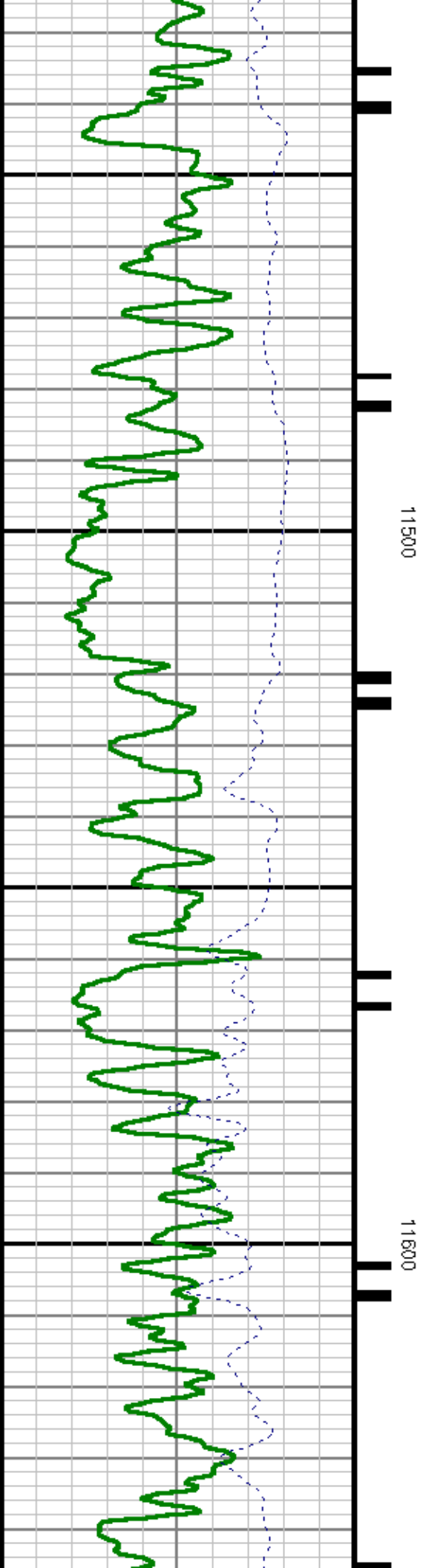
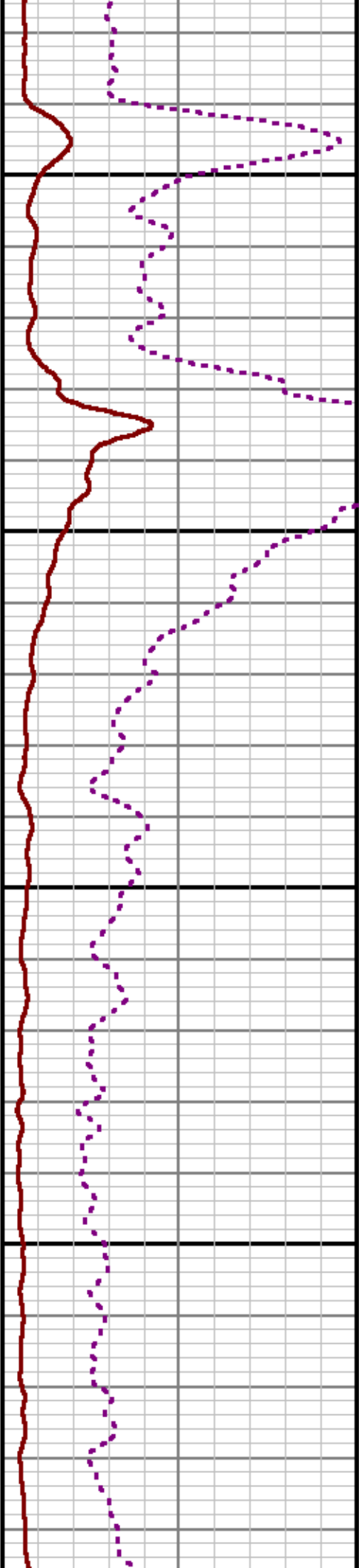
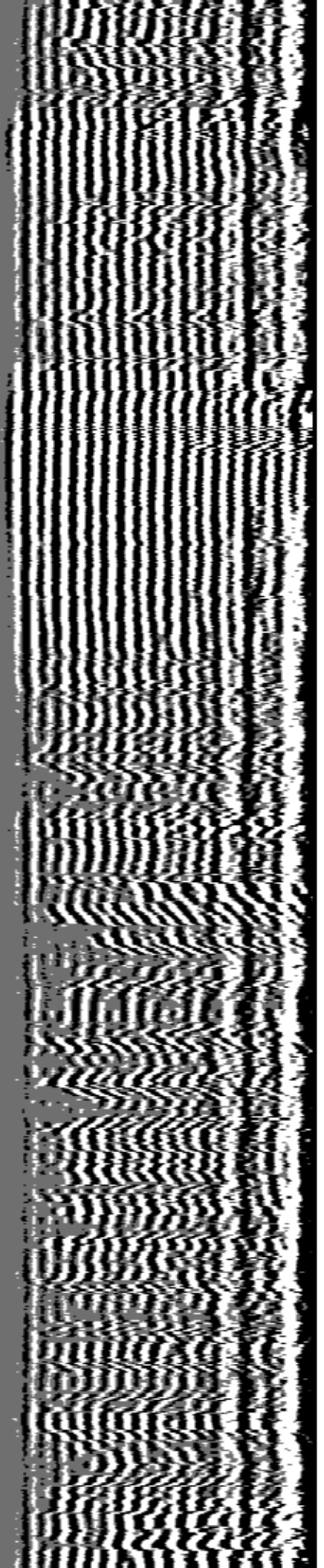


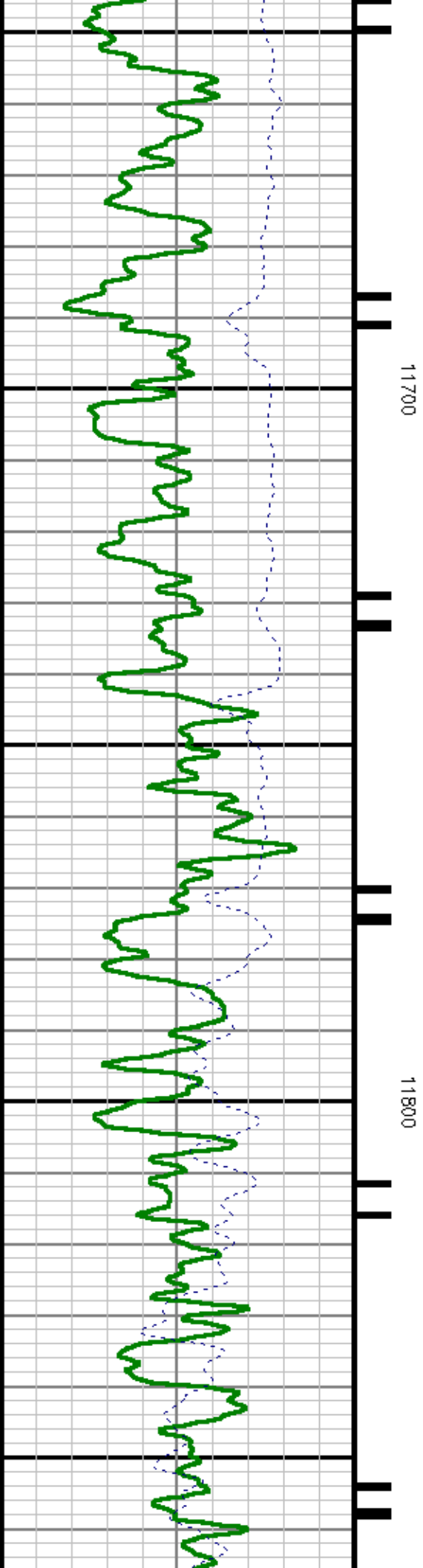
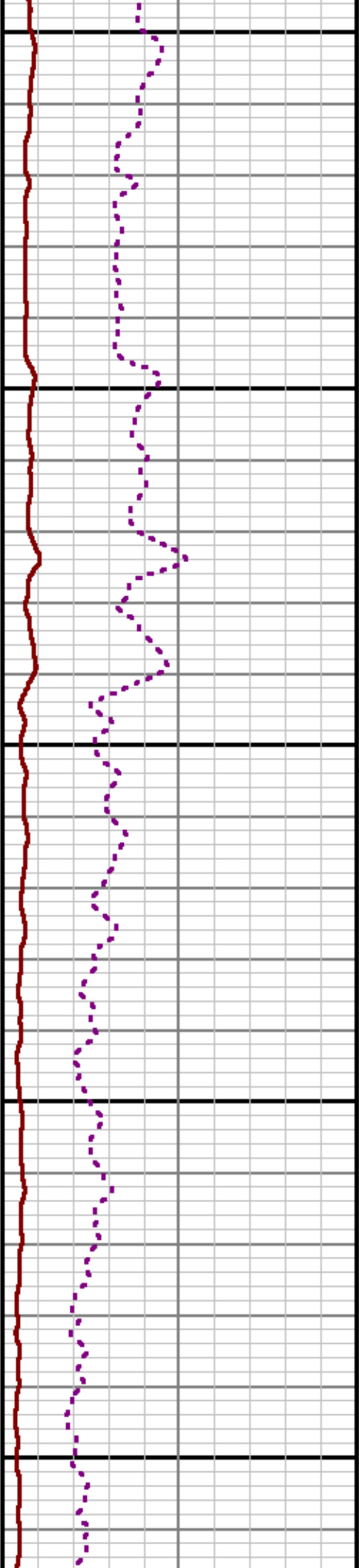
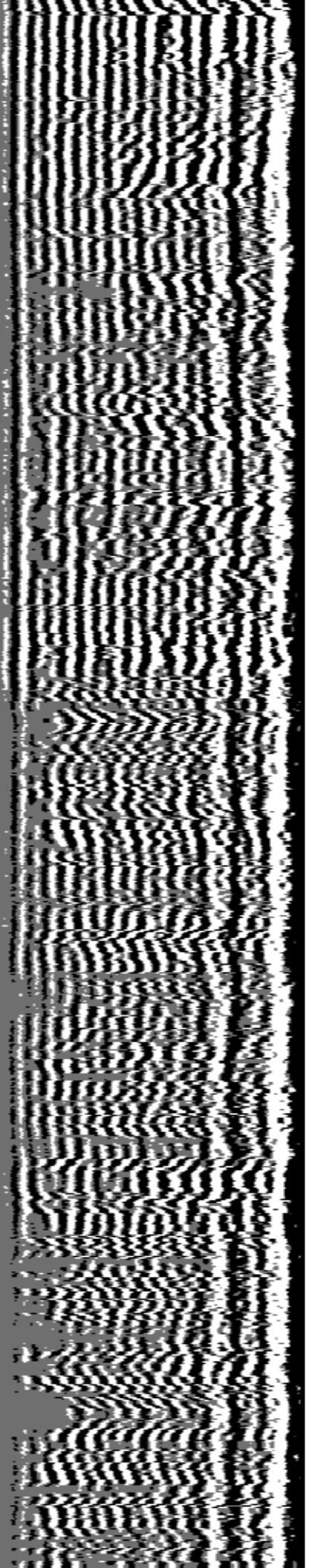


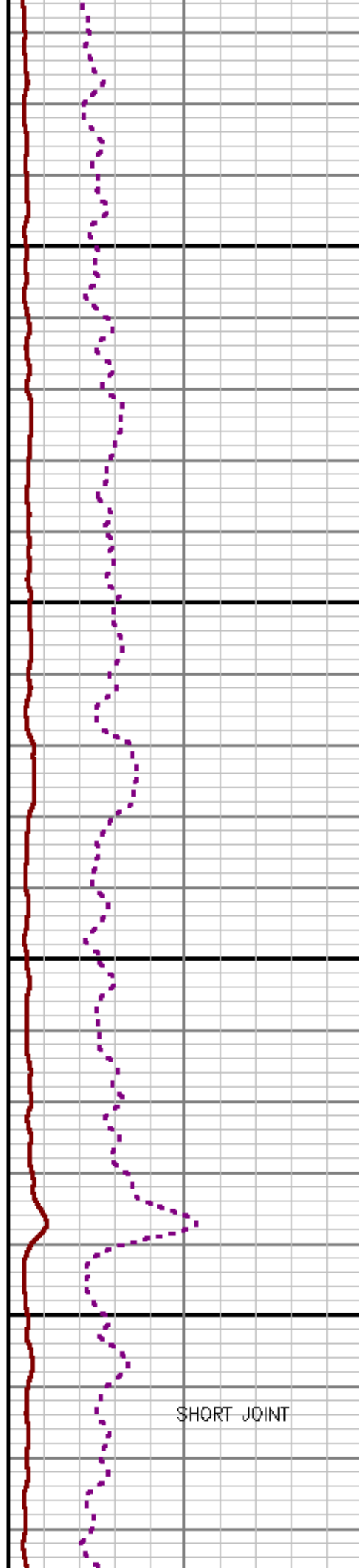
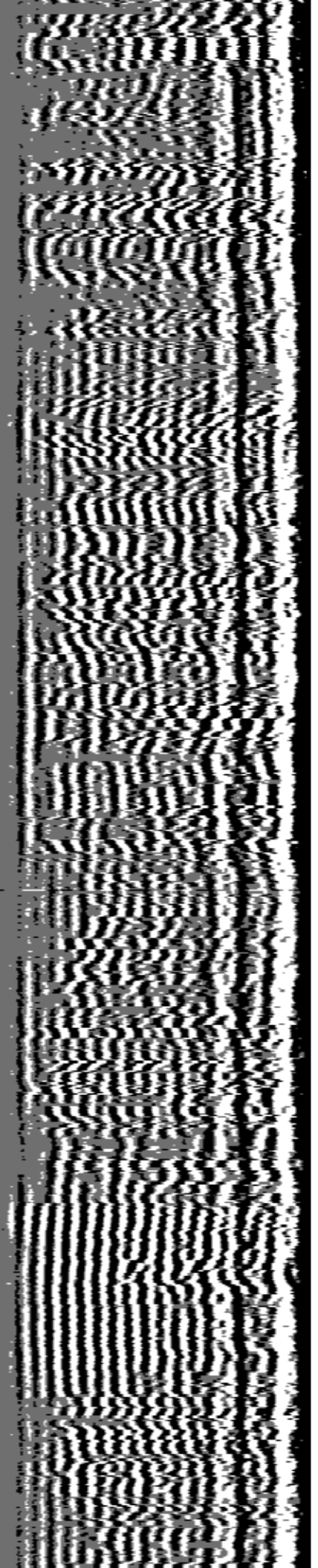








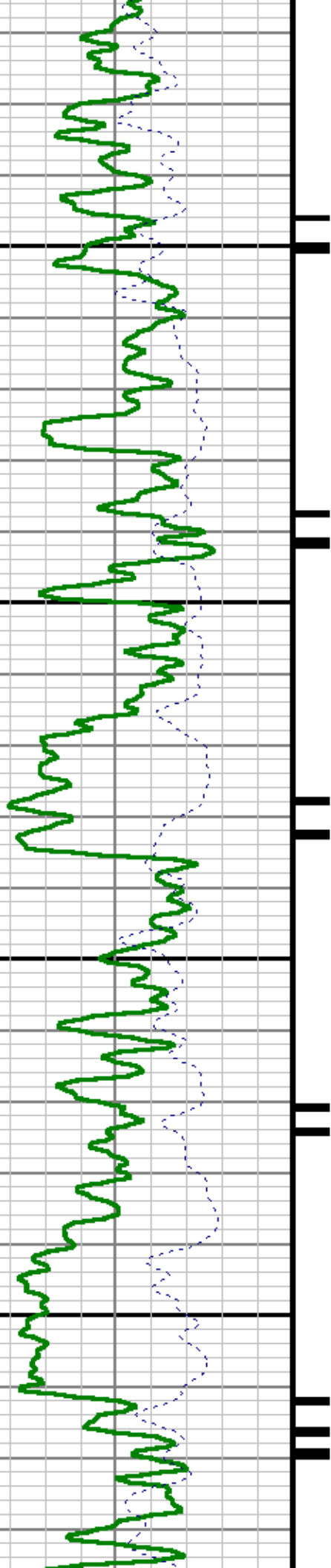


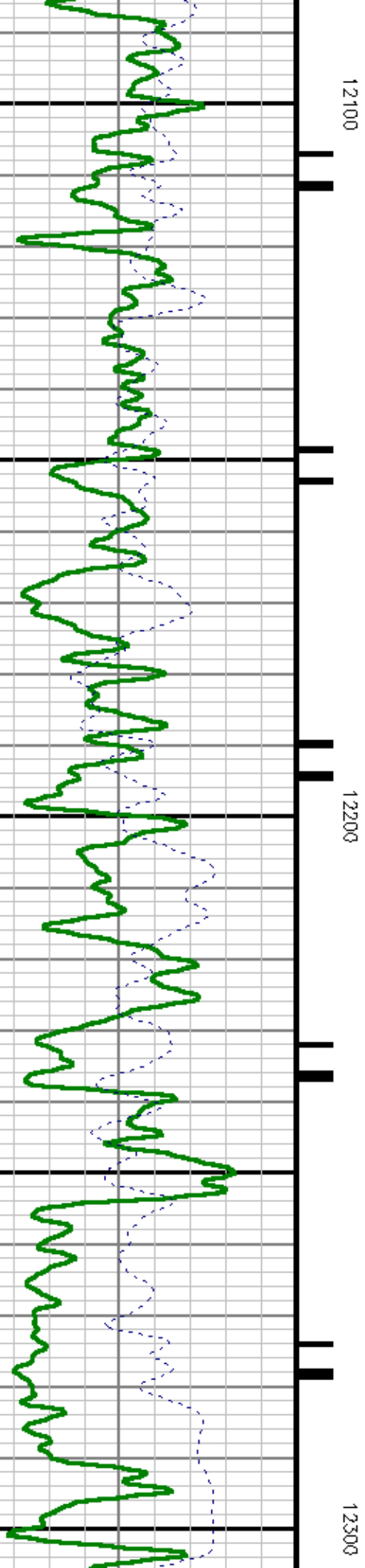
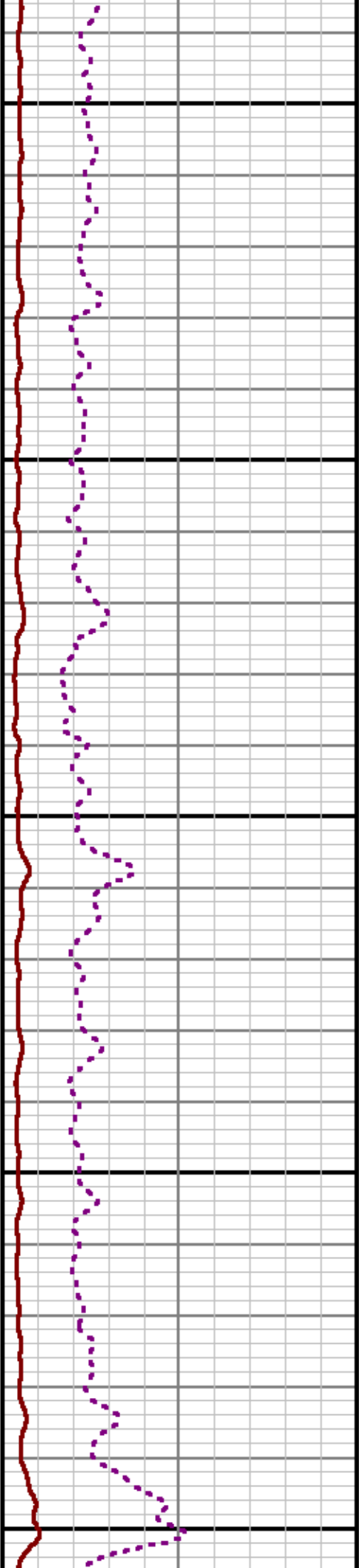
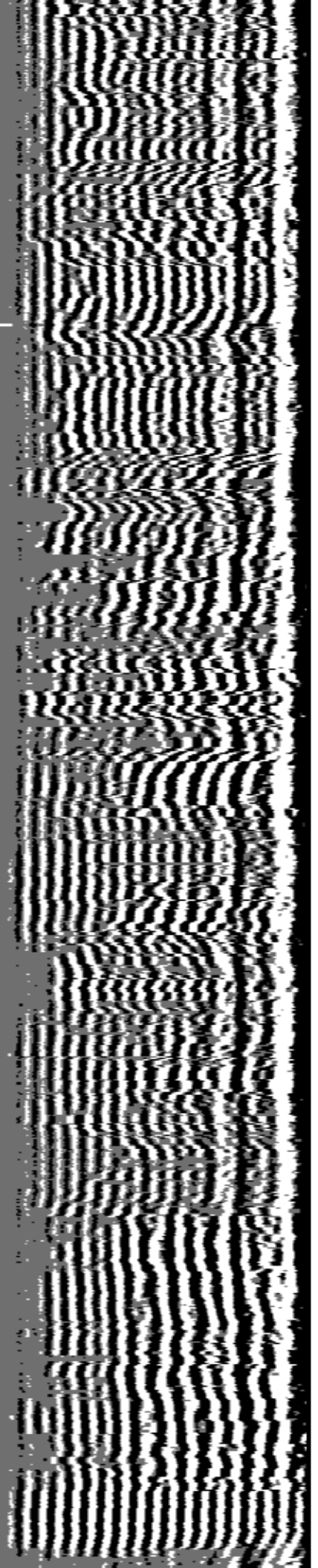


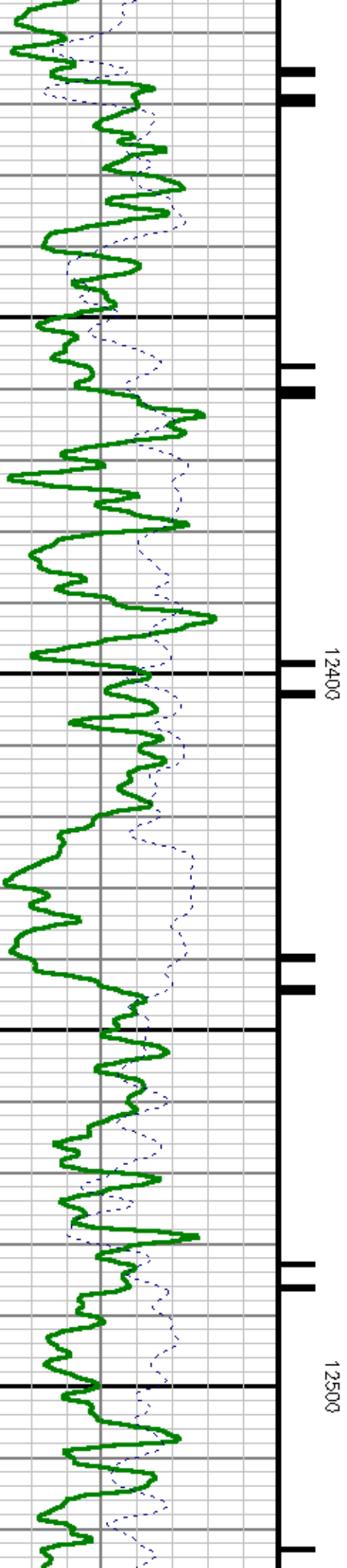
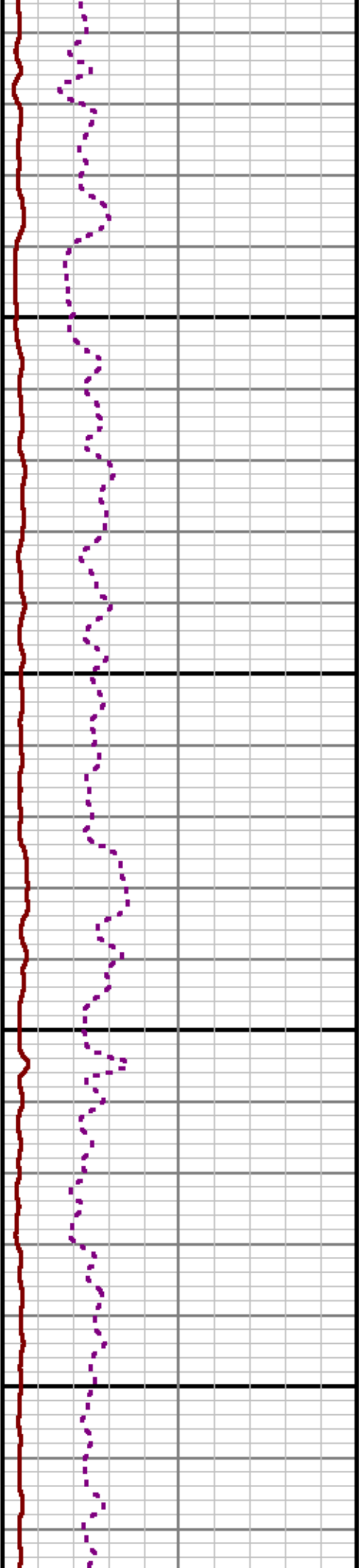
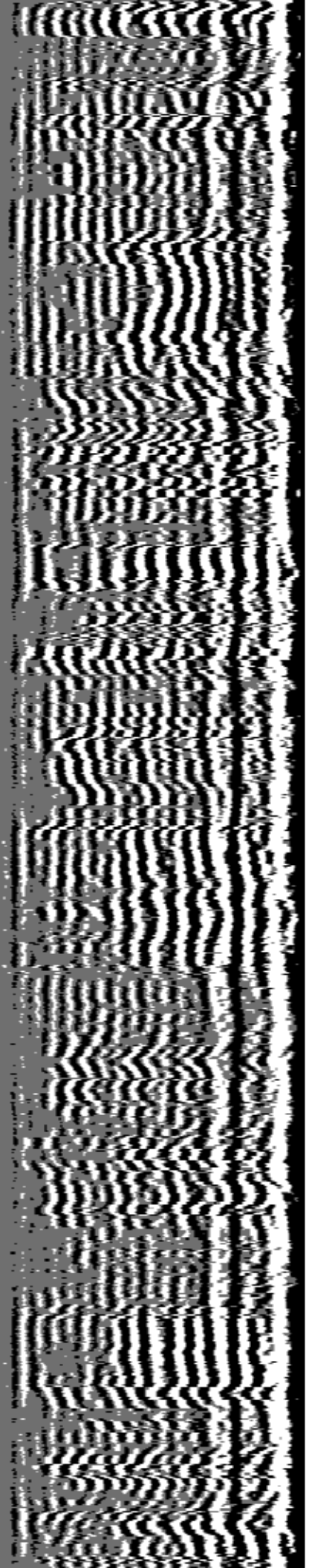
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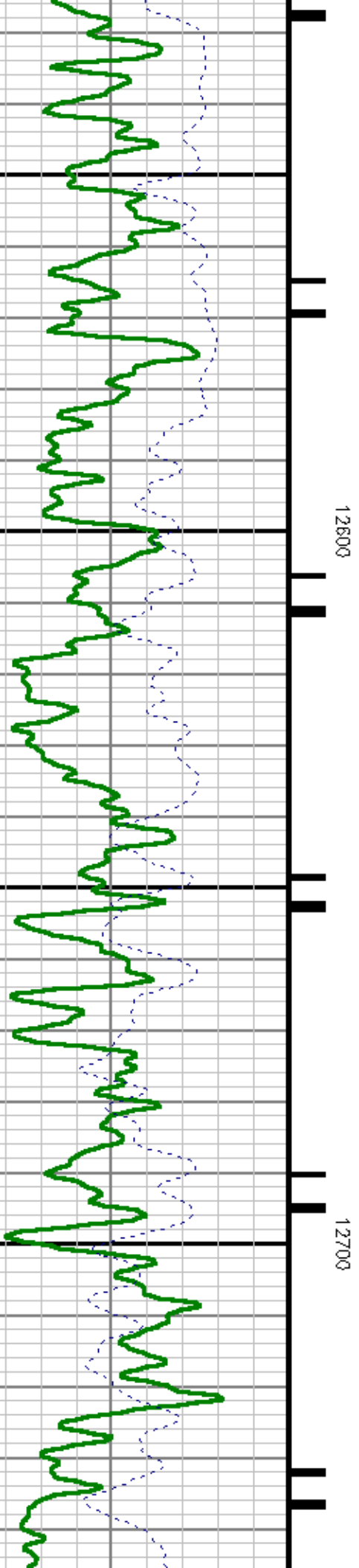
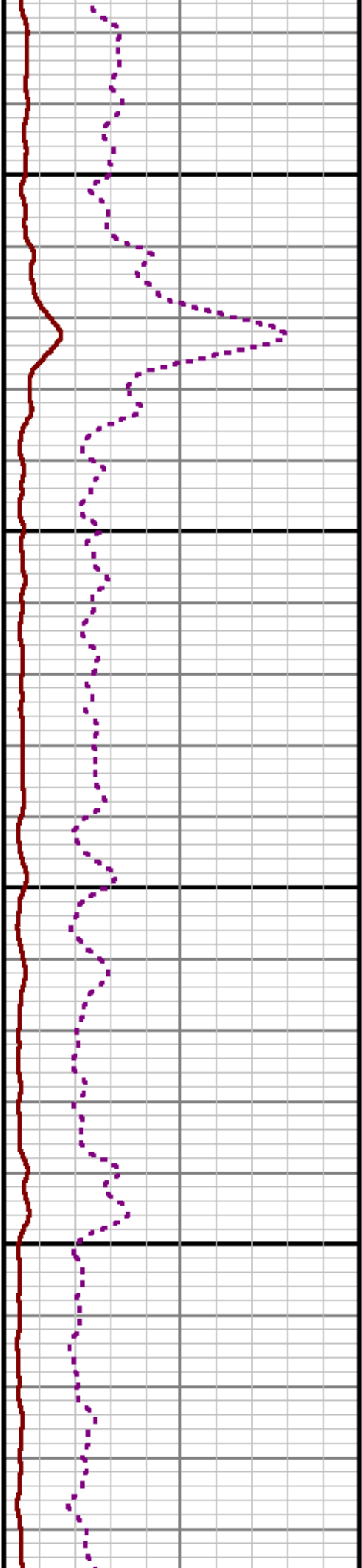
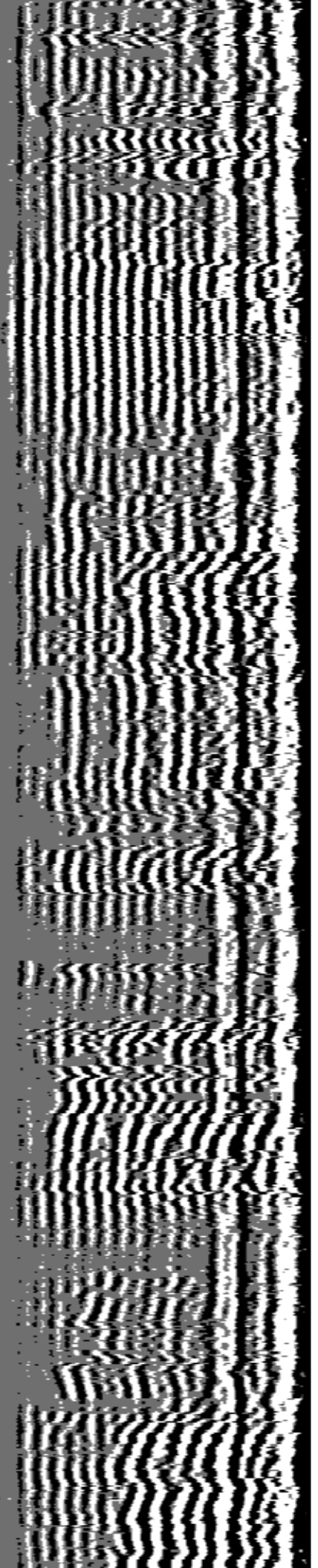
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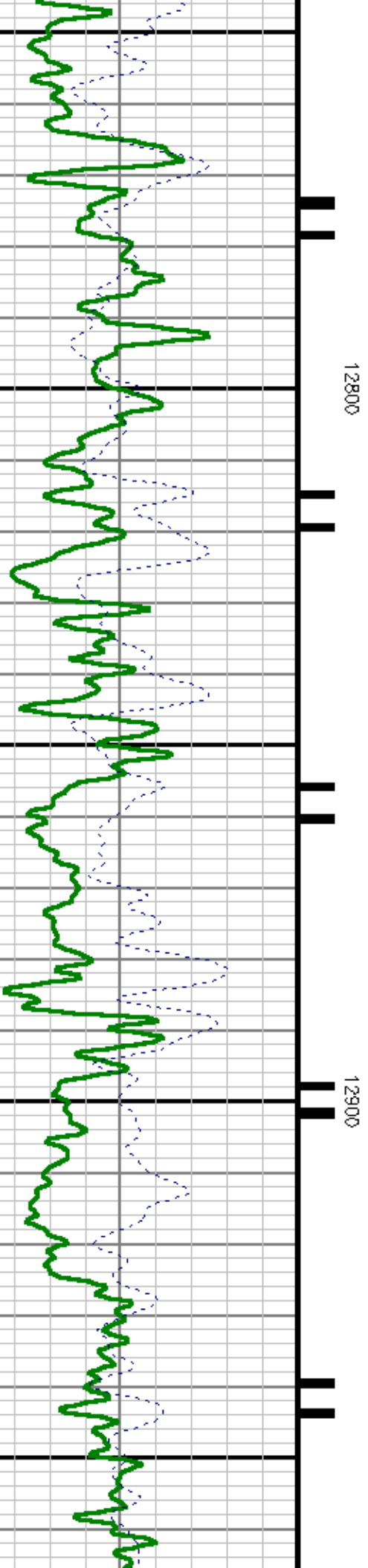
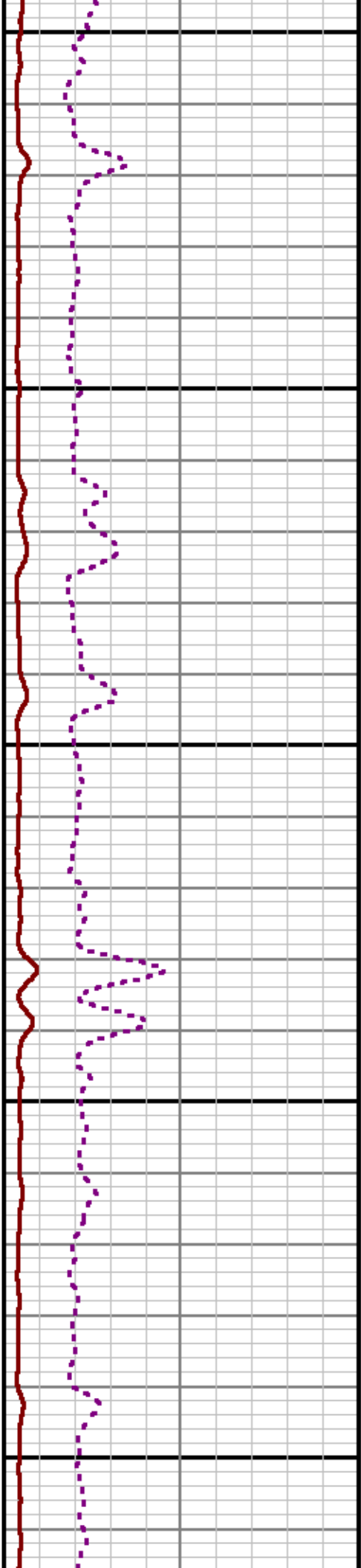
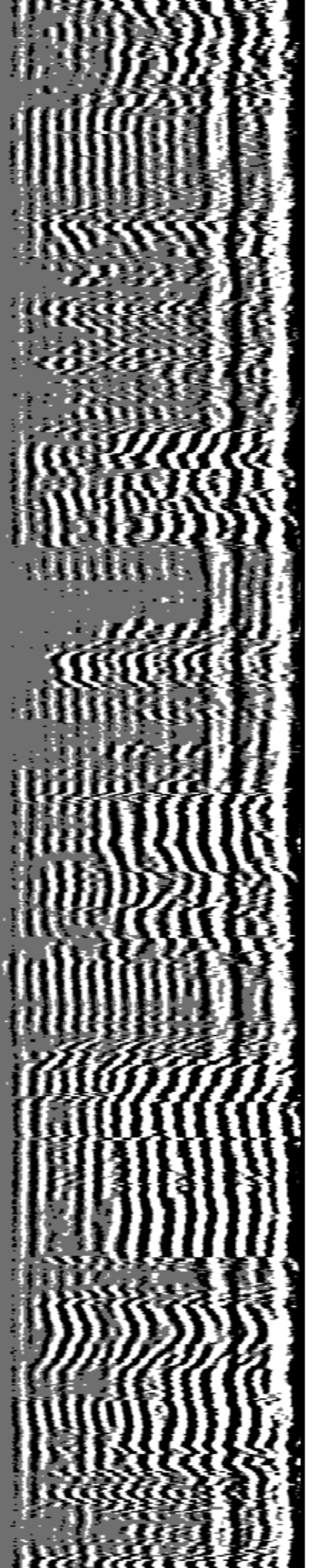
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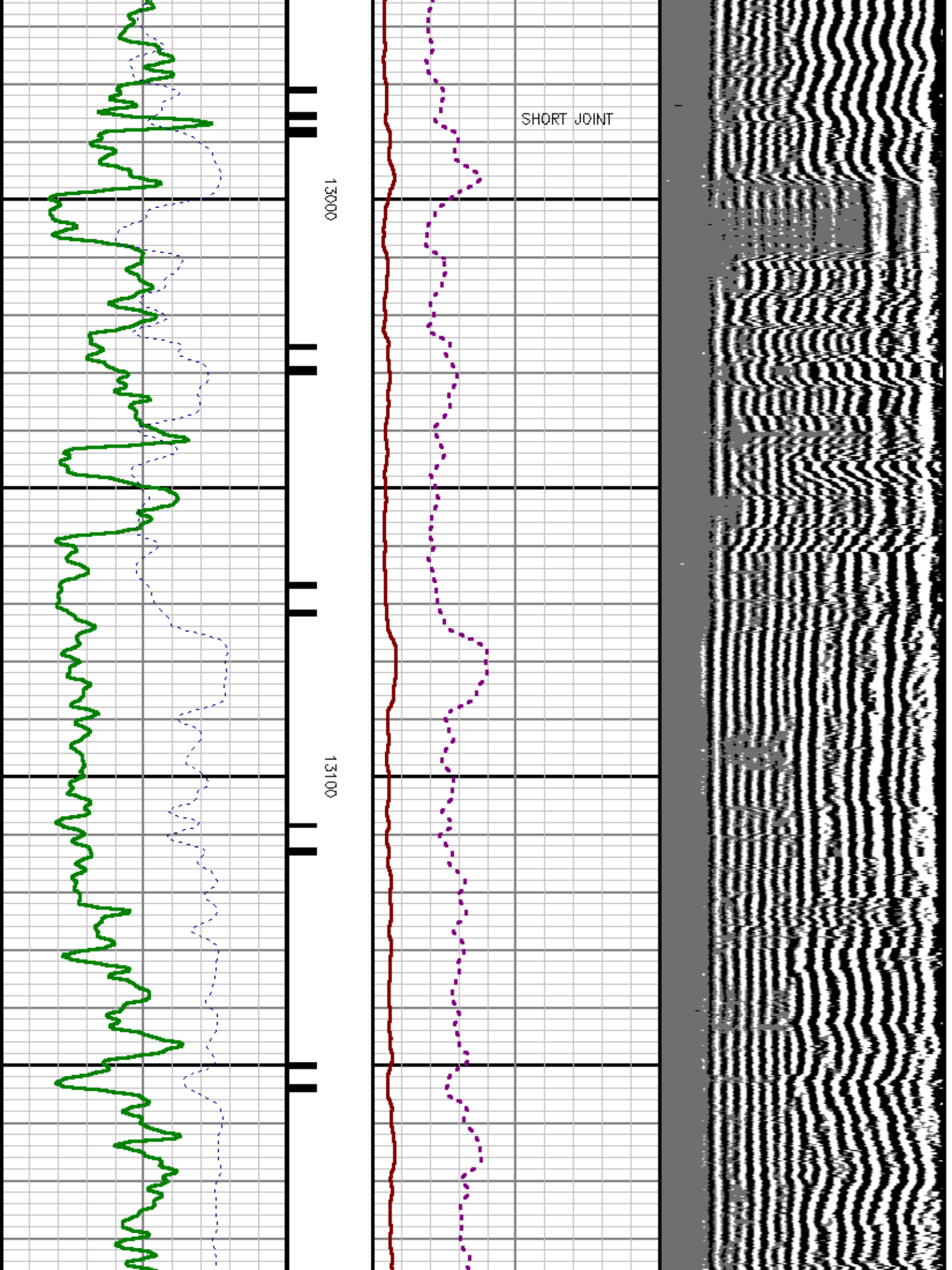


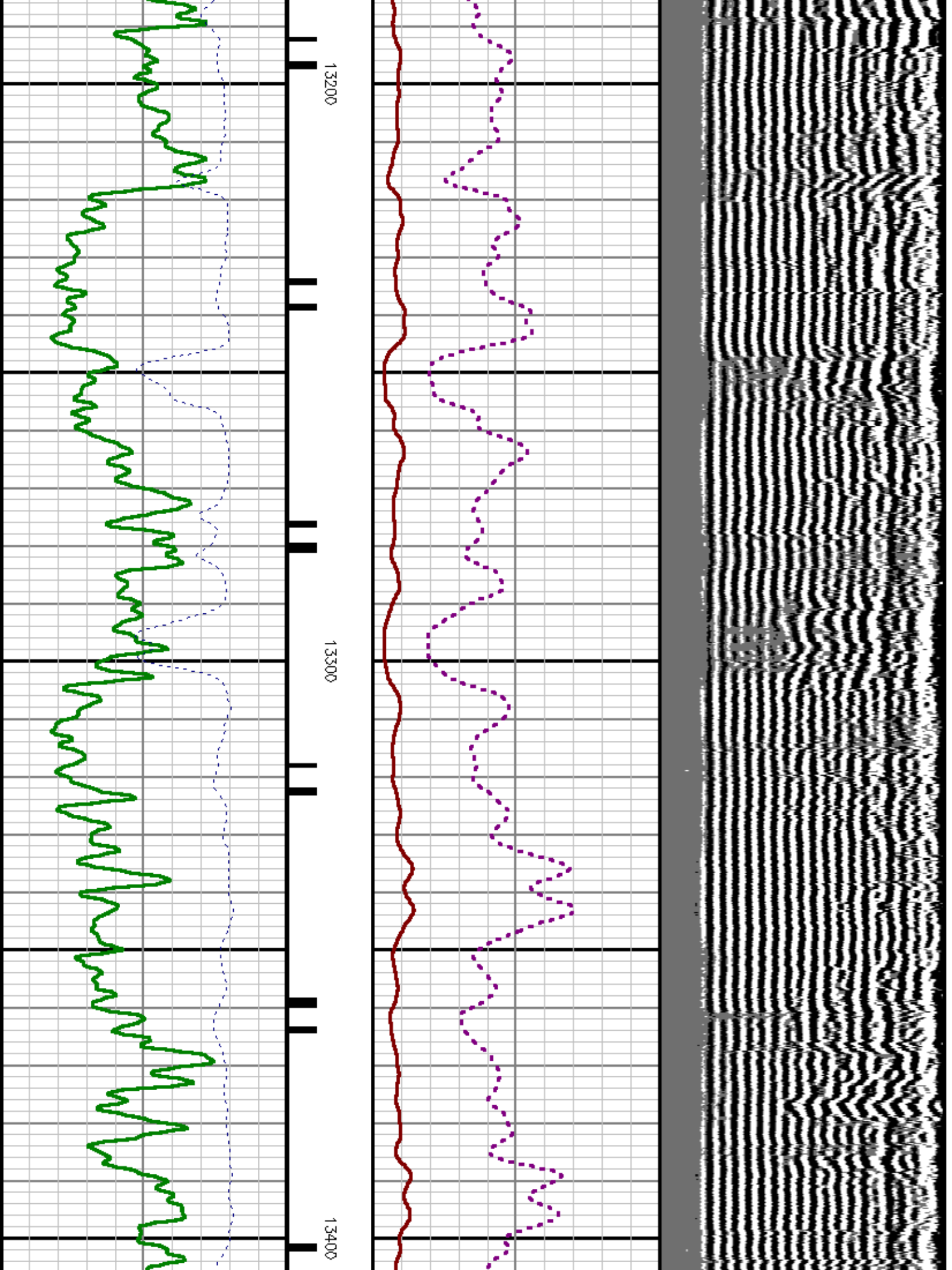


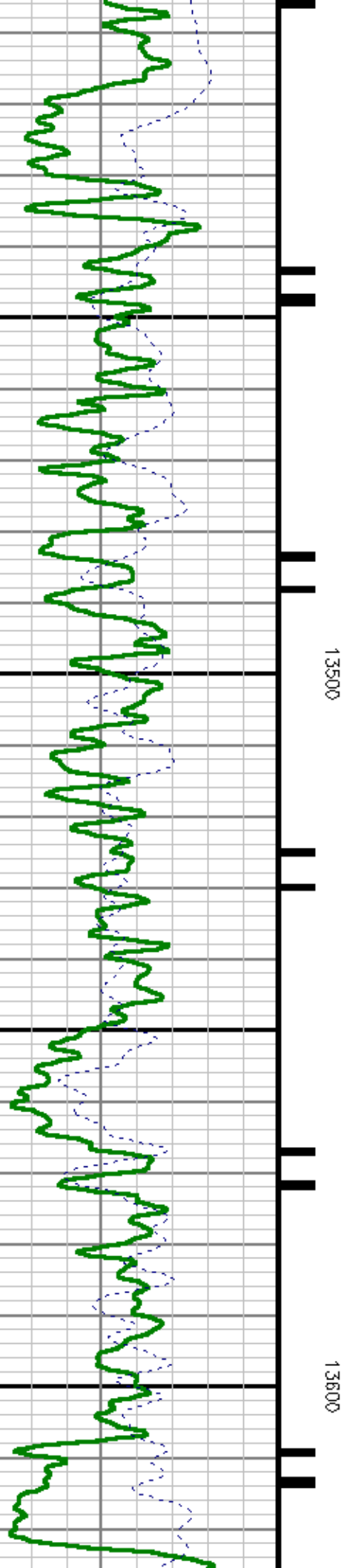
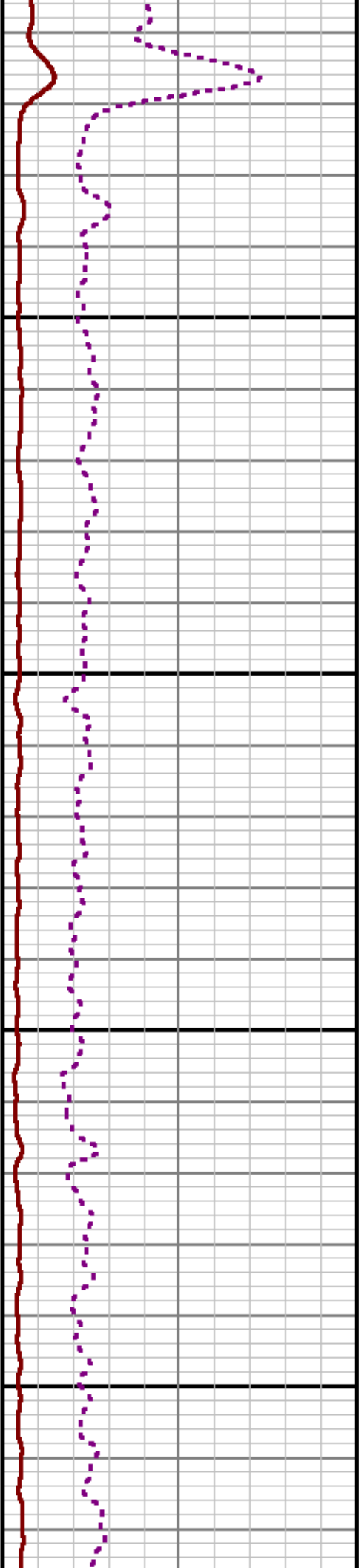
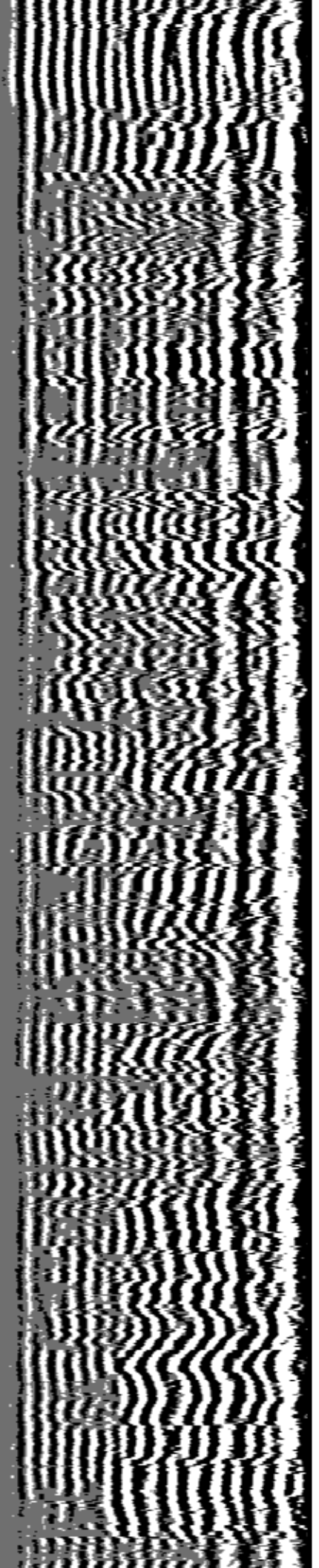


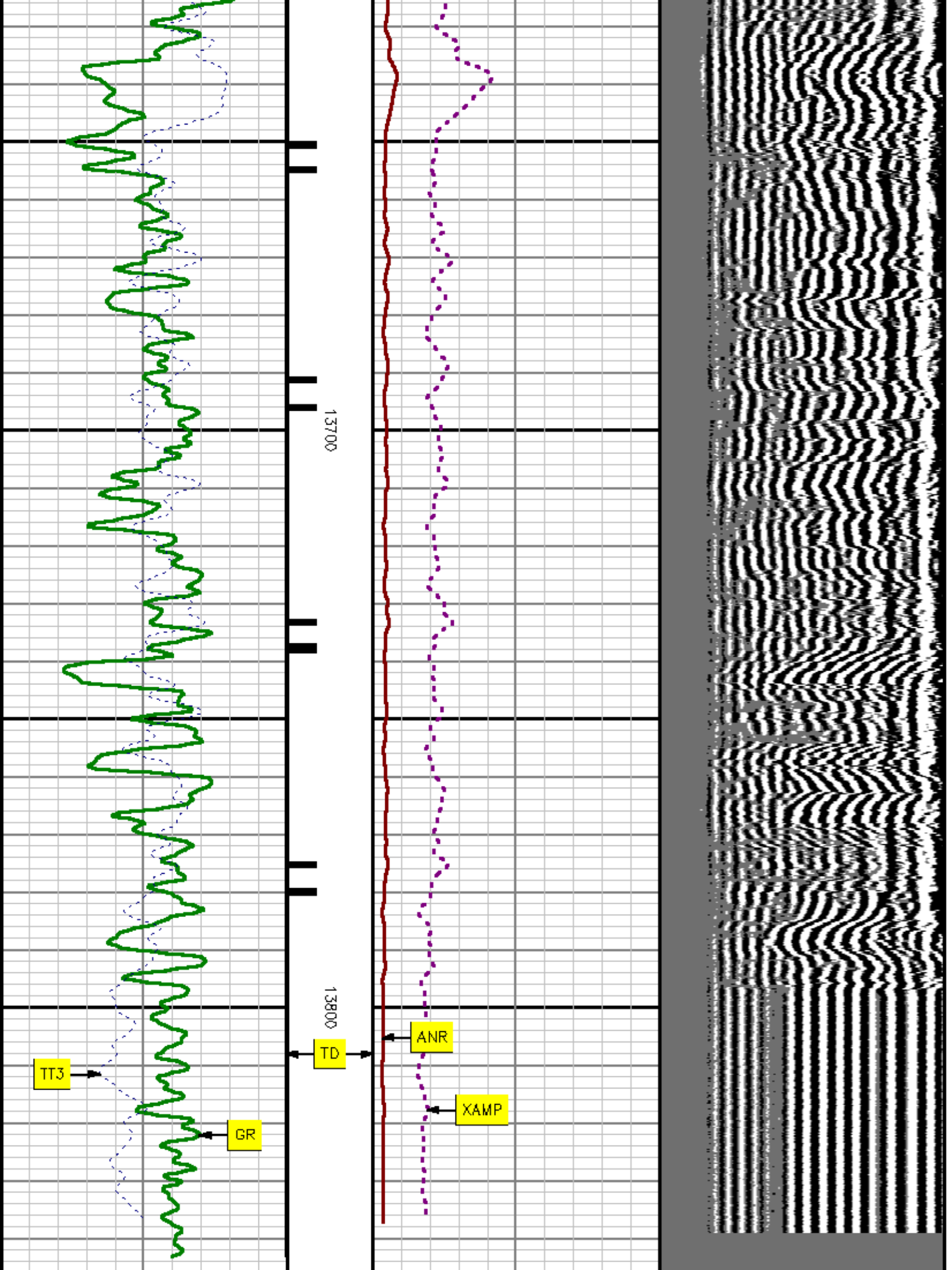


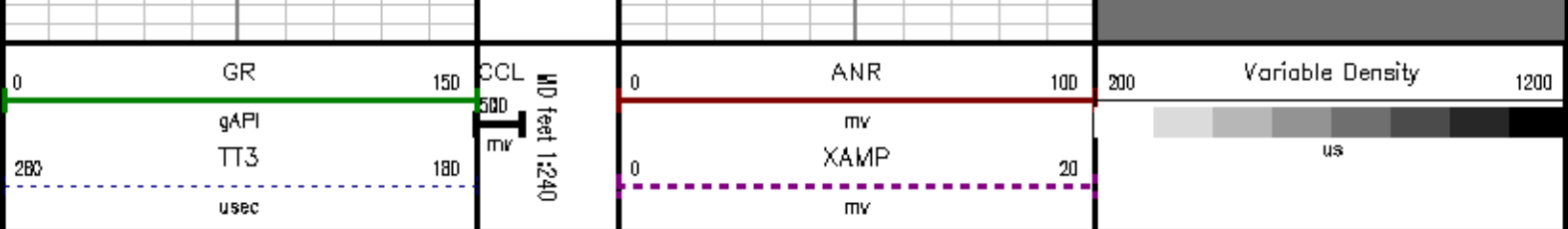












REPEAT SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	13563.168	13850.000
RAL	Amp Gate Start Near	197.754	usec	13563.168	13850.000
RAL	Amp Gate Start Radial	197.754	usec	13563.168	13850.000
RAL	Amp Gate Width Far	25.000	usec	13563.168	13850.000
RAL	Amp Gate Width Near	25.000	usec	13563.168	13850.000
RAL	Amp Gate Width Radial	25.000	usec	13563.168	13850.000
RAL	casing od	4.500	inches	13563.168	13850.000
RAL	casing wt	15.100	lbm/ft	13563.168	13850.000
RAL	FB Start Far	289.263	usec	13563.168	13850.000
RAL	FB Start Near	172.754	usec	13563.168	13850.000
RAL	FB Start Radial	172.754	usec	13563.168	13850.000
RAL	FB Thresh Far	10.000	mv	13563.168	13850.000
RAL	FB Thresh Near	4.000	mv	13563.168	13850.000
RAL	FB Thresh Radial	4.000	mv	13563.168	13850.000
RAL	Fluid Travel Time	200.000	usec/ft	13563.168	13849.949

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
		ACAL	ANR	AR1	AR2	AR3	AR4
1426XA	-12.360	AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
		AFAR	SIG	TT5			
		CCL					
1426XA	-11.360	GR					
1426XA	-7.250						
1426XA	-5.390						
1426XA	-4.000						

Created by : RAL, v4.6.007

Plotted by : PlotMgr, v5.4.5D4

Company : EXXONMOBIL PRODUCTION COMPANY

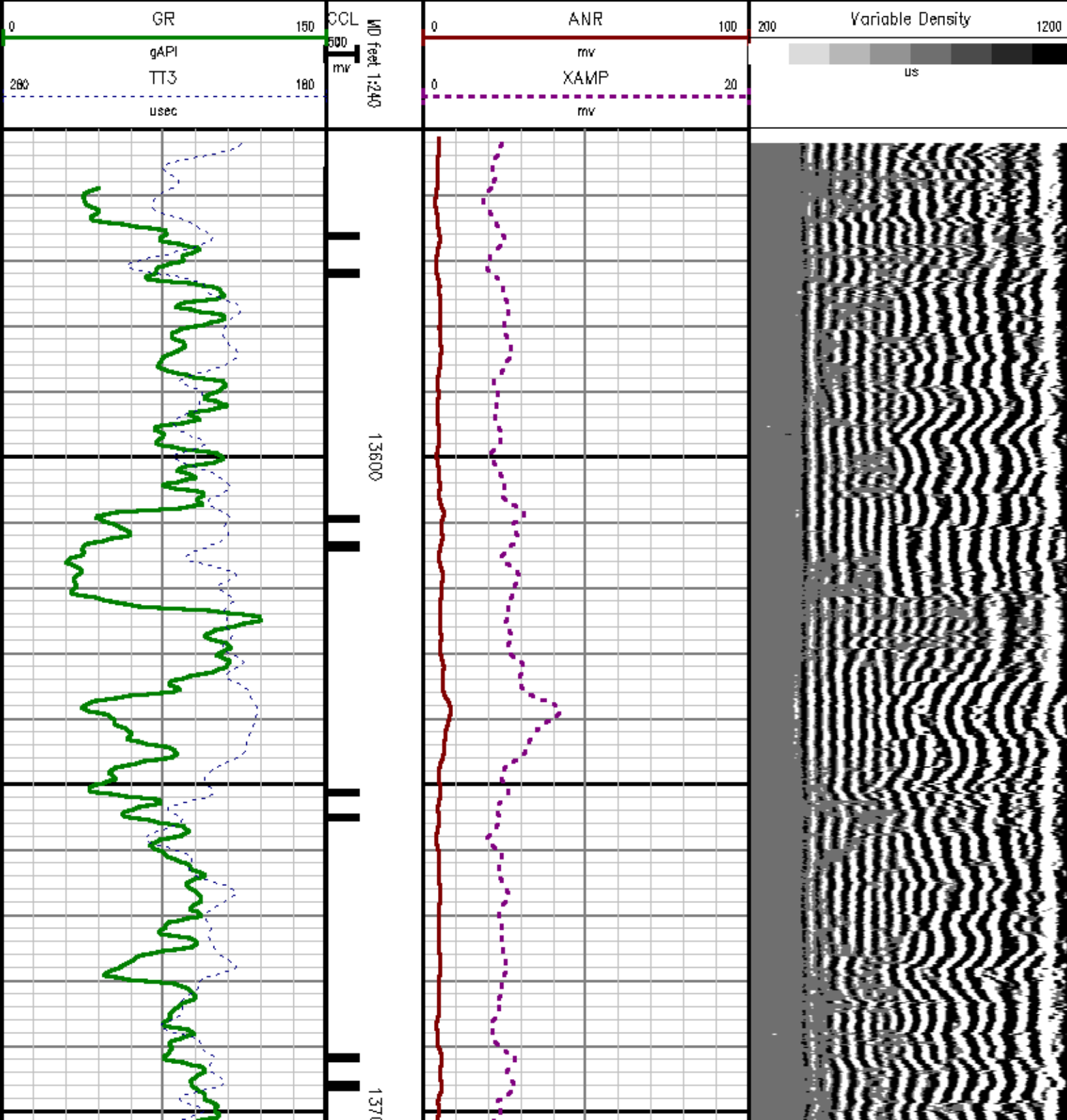
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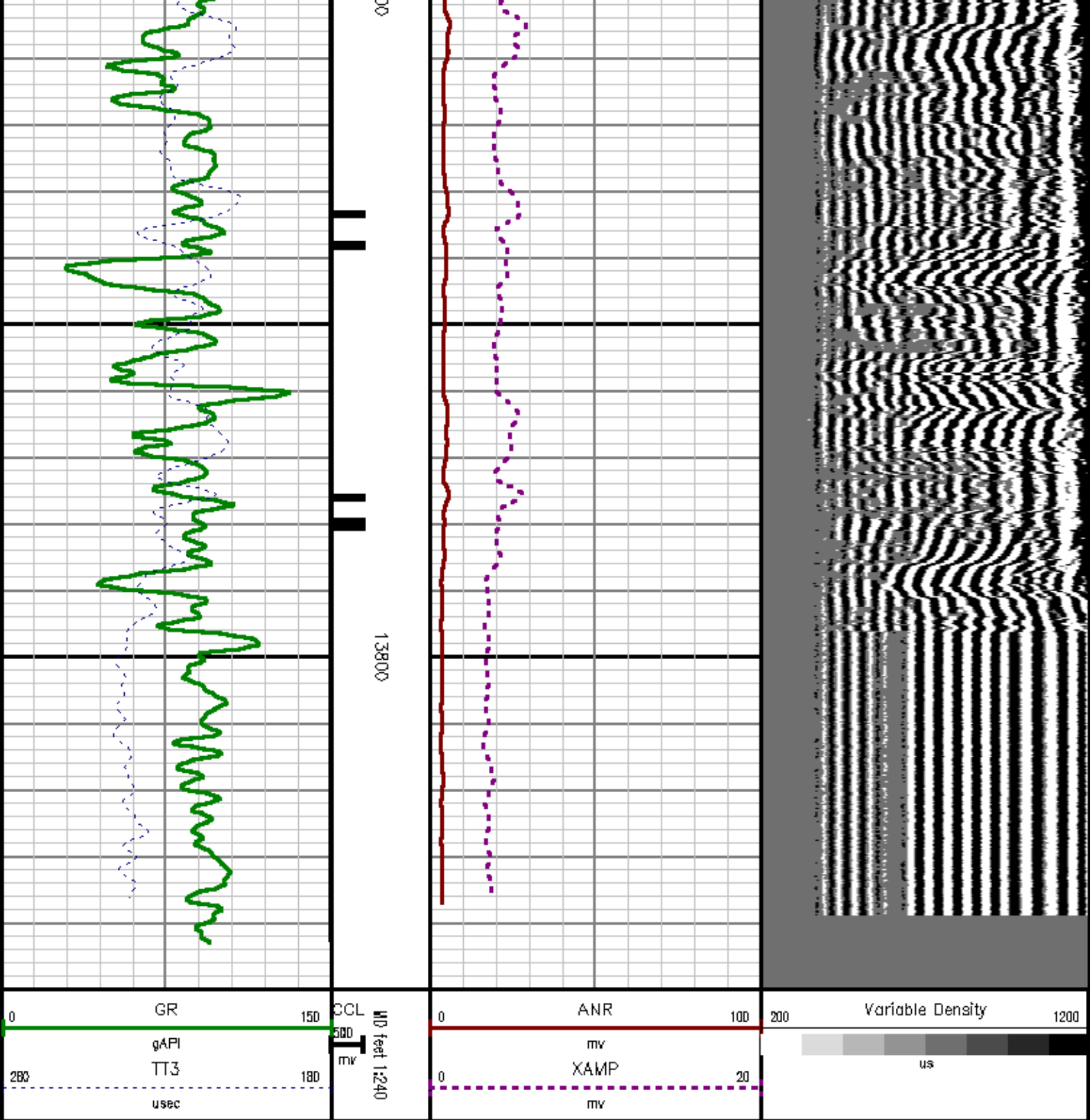
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Mode : PlotMgr 5.4.5D4

Interval : 13550.00 - 13650.00 feet UP

Created : 7/19/2011 10:33:05 AM





FREE PIPE SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	3502.500	3944.000
RAL	Amp Gate Start Near	197.754	usec	3502.500	3944.000
RAL	Amp Gate Start Radial	197.754	usec	3502.500	3944.000
RAL	Amp Gate Width Far	25.000	usec	3502.500	3944.000
RAL	Amp Gate Width Near	25.000	usec	3502.500	3944.000
RAL	Amp Gate Width Radial	25.000	usec	3502.500	3944.000
RAL	casing od	4.500	inches	3502.500	3944.000
RAL	casing wt	15.100	lbm/ft	3502.500	3944.000
RAL	FB Start Far	289.263	usec	3502.500	3944.000
RAL	FB Start Near	172.754	usec	3502.500	3944.000
RAL	FB Start Radial	172.754	usec	3502.500	3944.000
RAL	FB Thresh Far	10.000	mv	3502.500	3944.000
RAL	FB Thresh Near	4.000	mv	3502.500	3944.000
RAL	FB Thresh Radial	4.000	mv	3502.500	3944.000
RAL	Fluid Travel Time	200.000	usec/ft	3502.500	3943.824

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, v4.6.DD7

Plotted by : PlotMgr, v5.4.5D4

Company : EXXONMOBIL PRODUCTION COMPANY

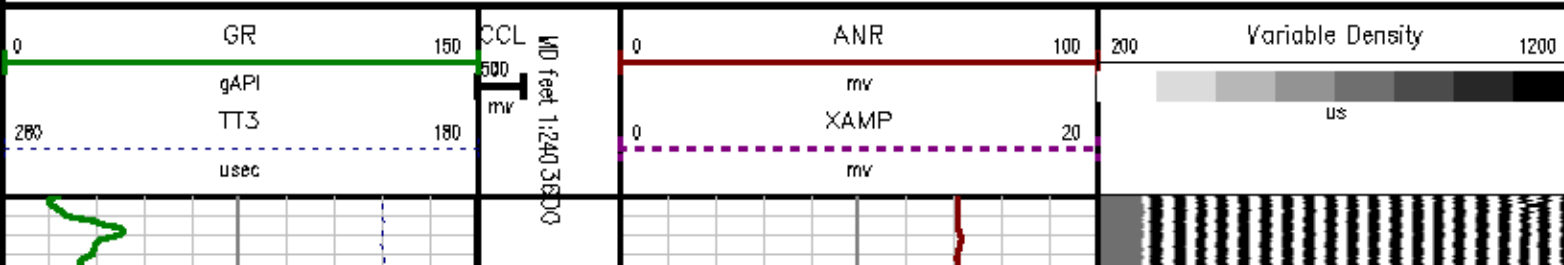
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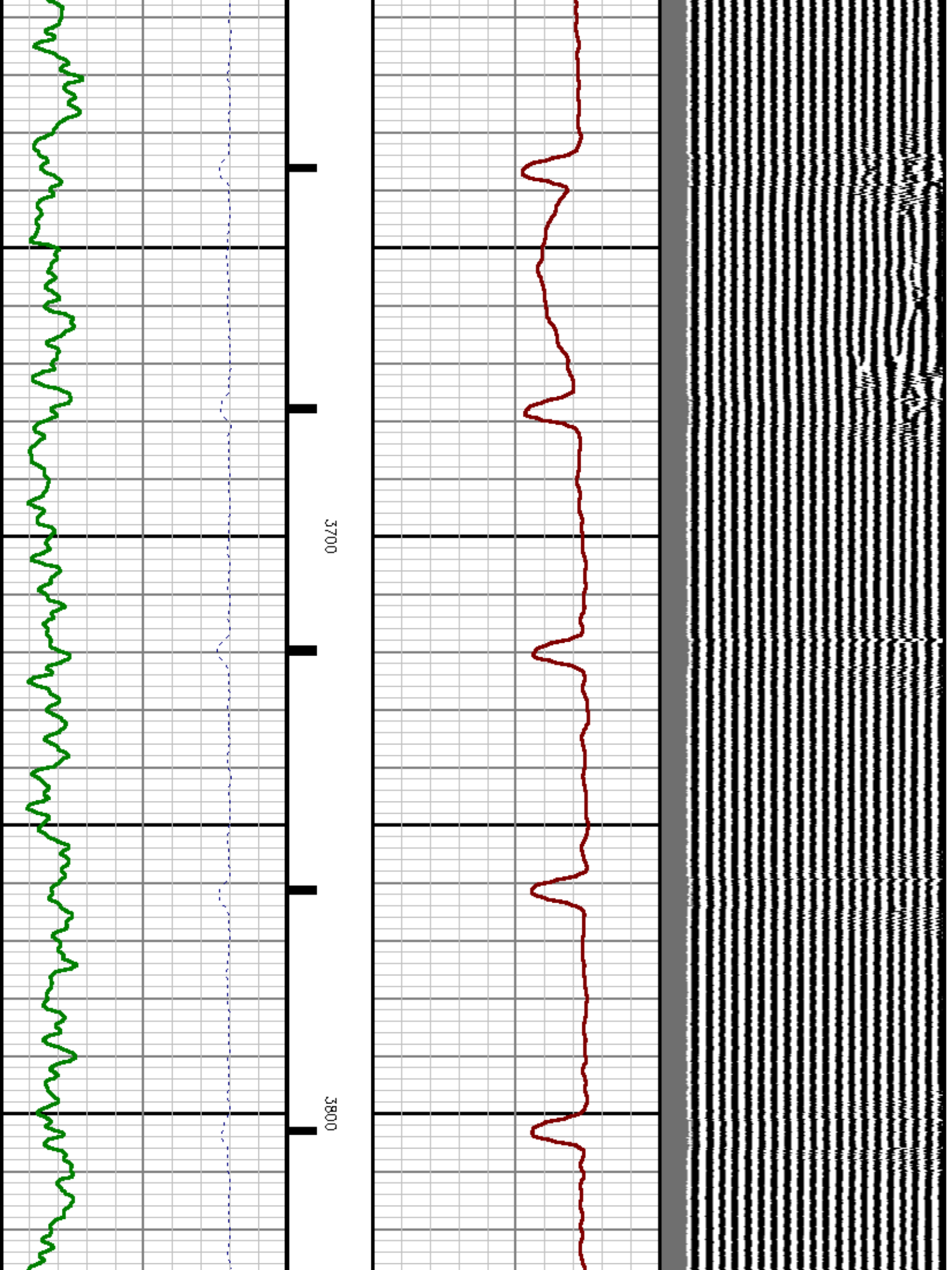
File Name : D:\WELLDATA\A6RAD\FREE.XTF

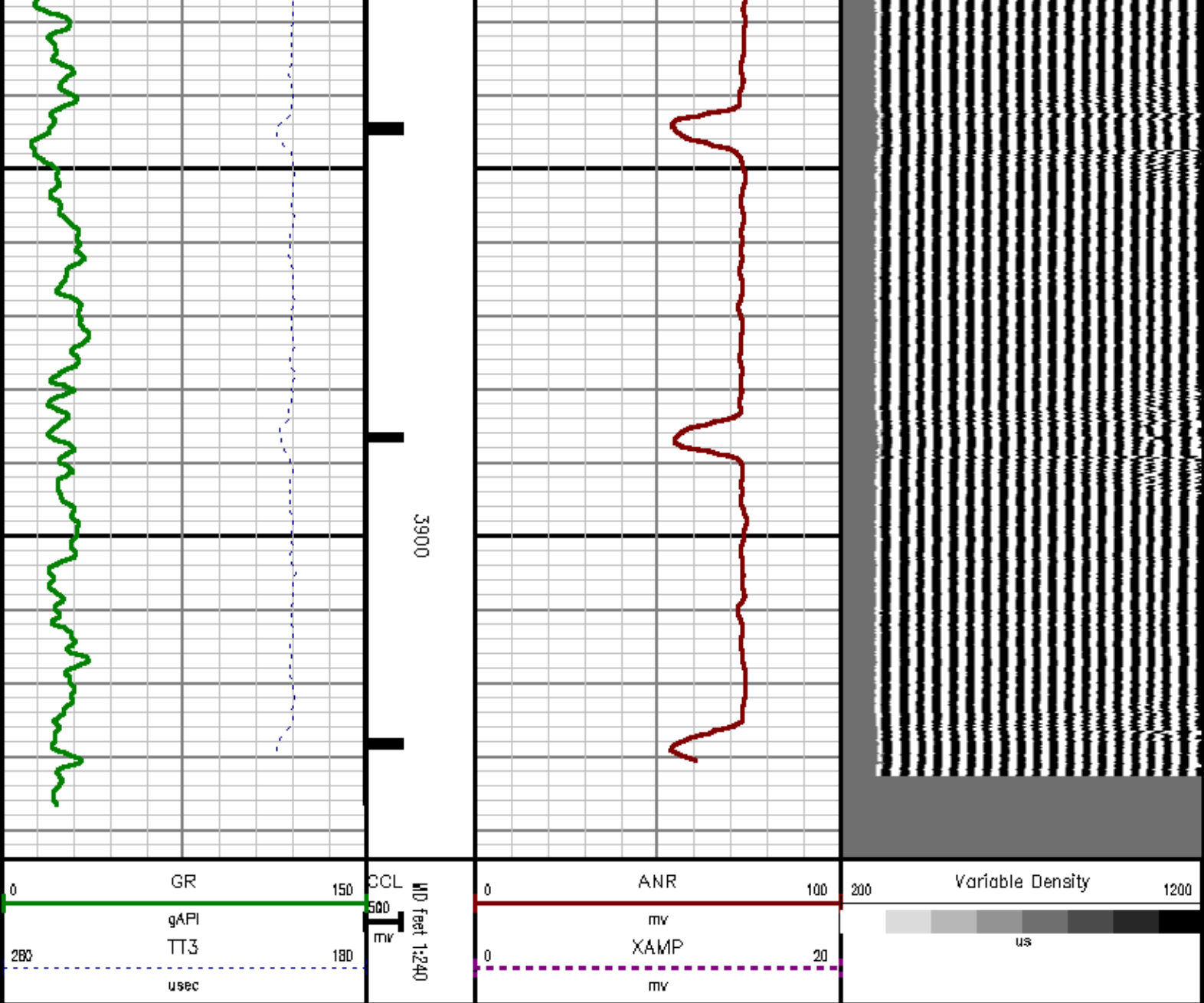
Mode : PlotMgr 5.4.5D4

Interval : 3600.00 - 3944.00 feet UP

Created : 7/19/2011 1:04:44 PM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\cgsa\cal\ver\RALSHP\957\17_gbp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 17 11:31:22 2011 TOOL SERIES: 1426XA ASSET: 957 SEQ: J17

Tool Delay -54.00 Tank OD 5.50 Tank Wt 15.50 Tank ID 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	219	216	30	166	25	0.220	100.00	0.23
3 Ft. Receiver	219	216	30	166	25	-0.322	100.00	0.22
5 Ft. Receiver	327	332	30	282	25	0.835	150.00	0.24
Radial #1	219	216	30	105	25	-0.588	100.00	0.23
Radial #2	219	216	30	105	25	-0.500	100.00	0.23
Radial #3	219	216	30	105	25	-0.196	100.00	0.23
Radial #4	218	216	30	105	25	-0.162	100.00	0.23
Radial #5	218	216	30	105	25	-0.396	100.00	0.22
Radial #6	216	216	30	105	25	-0.788	100.00	0.22
Radial #7	216	216	30	105	25	-0.204	100.00	0.22
Radial #8	219	216	30	105	25	-0.371	100.00	0.23

RALFLD

WellSite Calibration: C:\case\calver\RALFLD\957J17 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 17 11:32:06 2011 TOOL SERIES: 1426XA ASSET: 957 SEQ: J17

Tool Delay [usec] -54.00 Casing OD in 4.50 Casing Wt lbm/ft 15.10 Casing ID in 3.83

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	198	25	0.216			
5 Ft. Receiver	314	25	0.097			
Radial #1	198	25	0.182			
Radial #2	198	25	0.220			
Radial #3	198	25	0.192			
Radial #4	198	25	0.166			
Radial #5	198	25	0.243			
Radial #6	198	25	0.285			
Radial #7	198	25	0.160			
Radial #8	198	25	0.237			

GAMMA RAY

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

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jul 16 07:39:07 2011 TOOL SERIES: 1426XA ASSET: 457 SEQ: JY

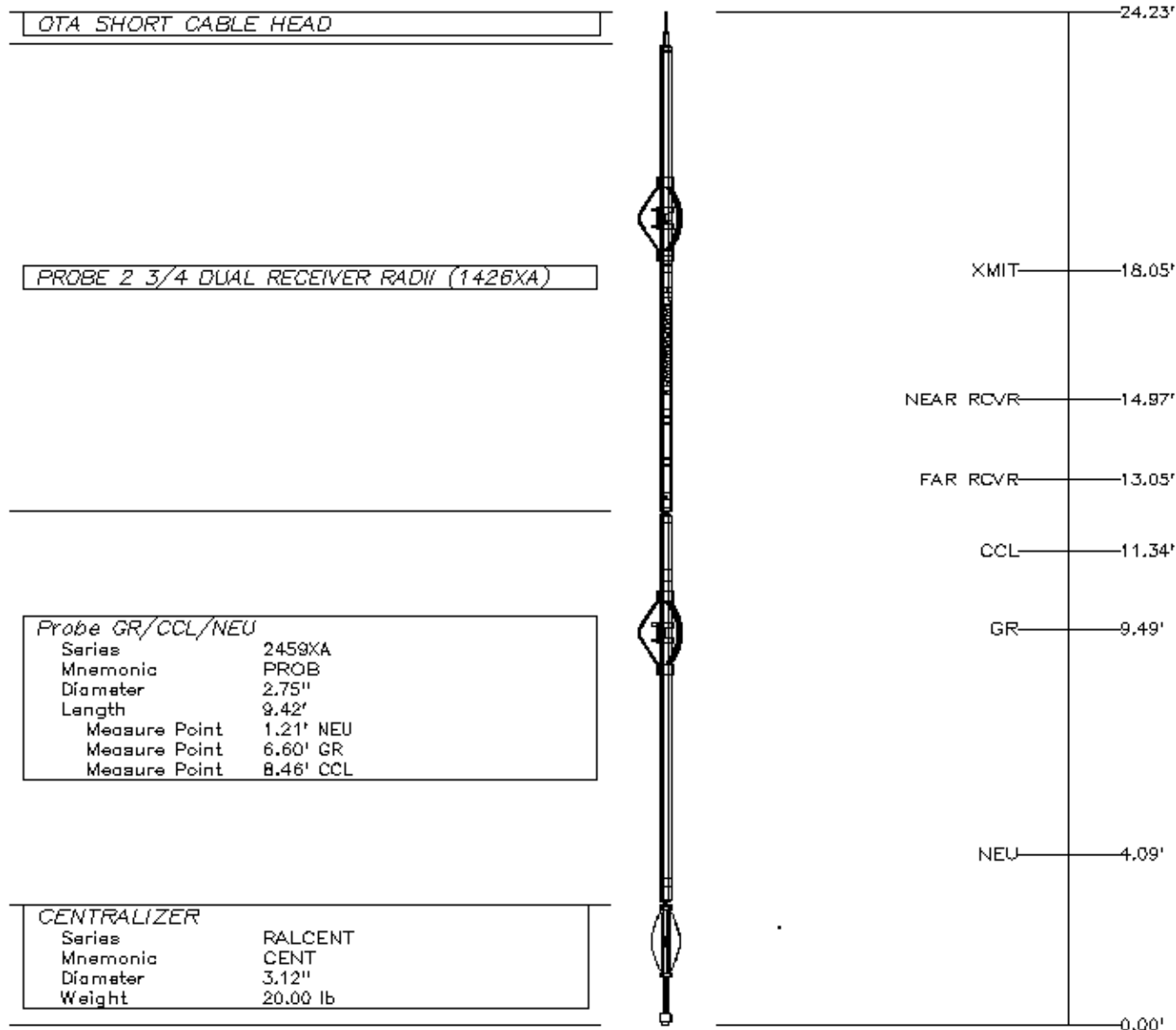
Calibrator # Background Calibrator On Multiplicative Background Calibrator On Differential

		[cps]		[cps]		[api]		[api]		[api]
S2K	DA612	67.24	309.61	0.784	51.35	236.35	185.00			

Verification File:	C:\case\calver\GR\457JY.VP
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PRIMARY LOG VERIFICATION										
DATE/TIME PERFORMED:			Sat Jul 16 07:40:27 2011		TOOL SERIES:		1426XA		ASSET:	457
									SEQ:	JY
Calibrator #	Background	Calibrator On			Multiplicative	Background	Calibrator On	Differential		
	[cps]	[cps]				[api]	[api]	[api]		
S2K DA612	67.82	317.64			0.784	51.79	242.66	190.77		

TOOL DIAGRAM



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



Baker Atlas

CASE

Company EXXONMOBIL PRODUCTION COMPANY

Well PCU 29B-5A6

Field PICEANCE CREEK

County RIO BLANCO State COLORADO

File No:

CH039002

API No:

06103112400000

Location:

SHL: 882' FNL & 535' FNL

Elevations

KB 7338.2 ft

DF 7338.2 ft

GL 7309 ft

SEC: 5 TWP: 2S RGE: 98W