

Company Pioneer Natural Resources
Well Cedar 31-19
Field Purgatoire River
County Las Animas
State Colorado

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Well Cedar 31-19
Field Purgatoire River
County Las Animas State Colorado

Location: API #: 050710971400

SEC 19 TWP 32S RGE 67W

716' FNL & 2076' FEL

Other Services
DEVI

Permanent Datum Grand level Elevation 8151'
Log Measured From Kelly Bushing 4' AGL
Drilling Measured From Kelly bushing

Elevation
K.B. 8155'
D.F.
G.L. 8151'

Date	10-22-11									
Run Number	One									
Depth Driller	3314'									
Depth Logger	3238'									
Bottom Logged Interval	3236'									
Top Log Interval	Surface									
Open Hole Size	7 7/8									
Type Fluid	Water									
Density / Viscosity	///									
Max. Recorded Temp.	///									
Estimated Cement Top	///									
Time Well Ready	2.15 p.m.									
Time Logger on Bottom	2.45 p.m.									
Equipment Number	T440									
Location	Trinidad									
Recorded By	C. Sisneros									
Witnessed By	S. Nelson									
Borehole Record					Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To			
Casing Record	Size		Wgt/Ft		Top		Bottom			
Surface String	8 5/8				00		612'			
Prot. String										
Production String	5 1/2		15.5		00		Td			
Liner										

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

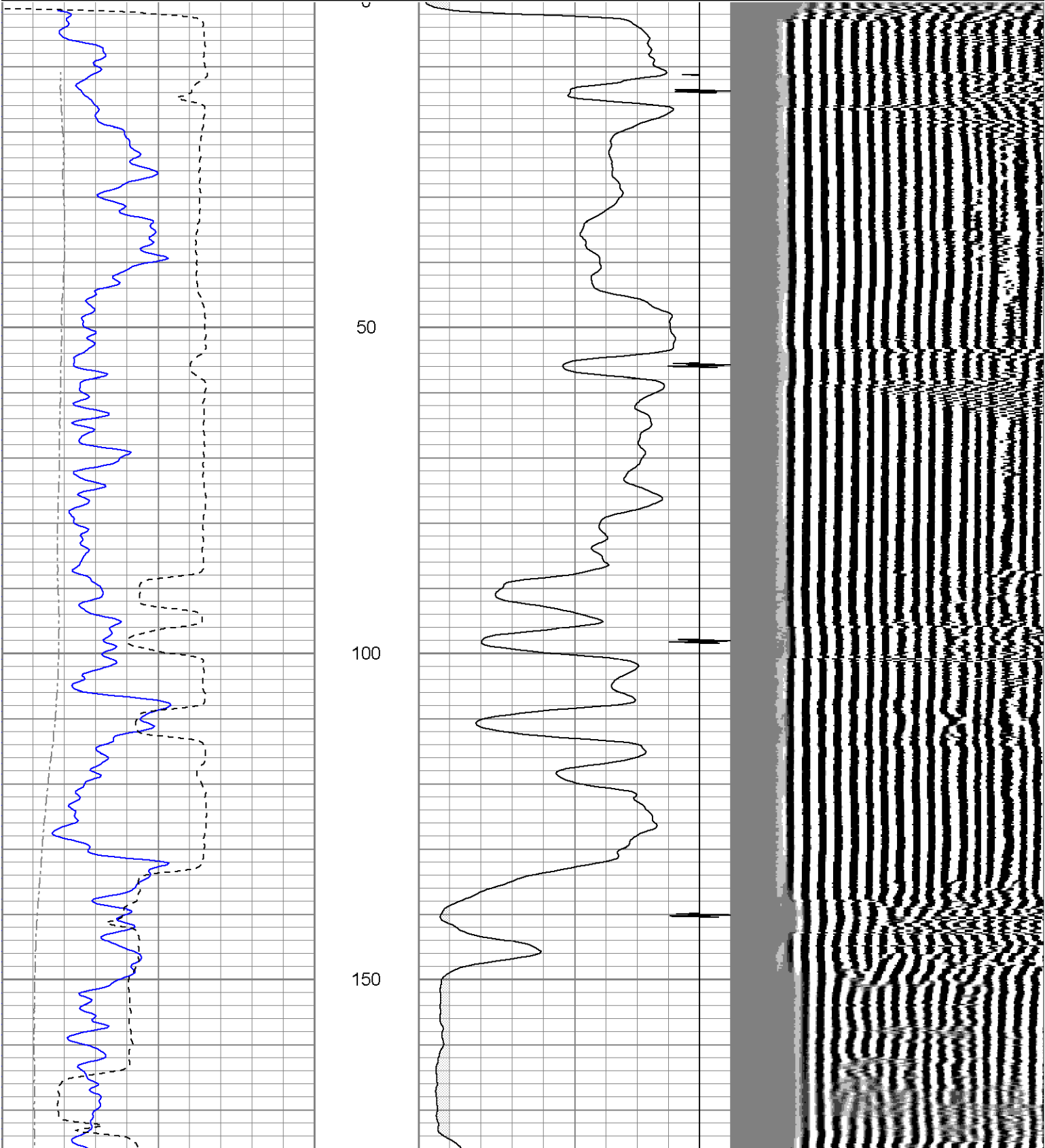
Logged under 800 PSI.

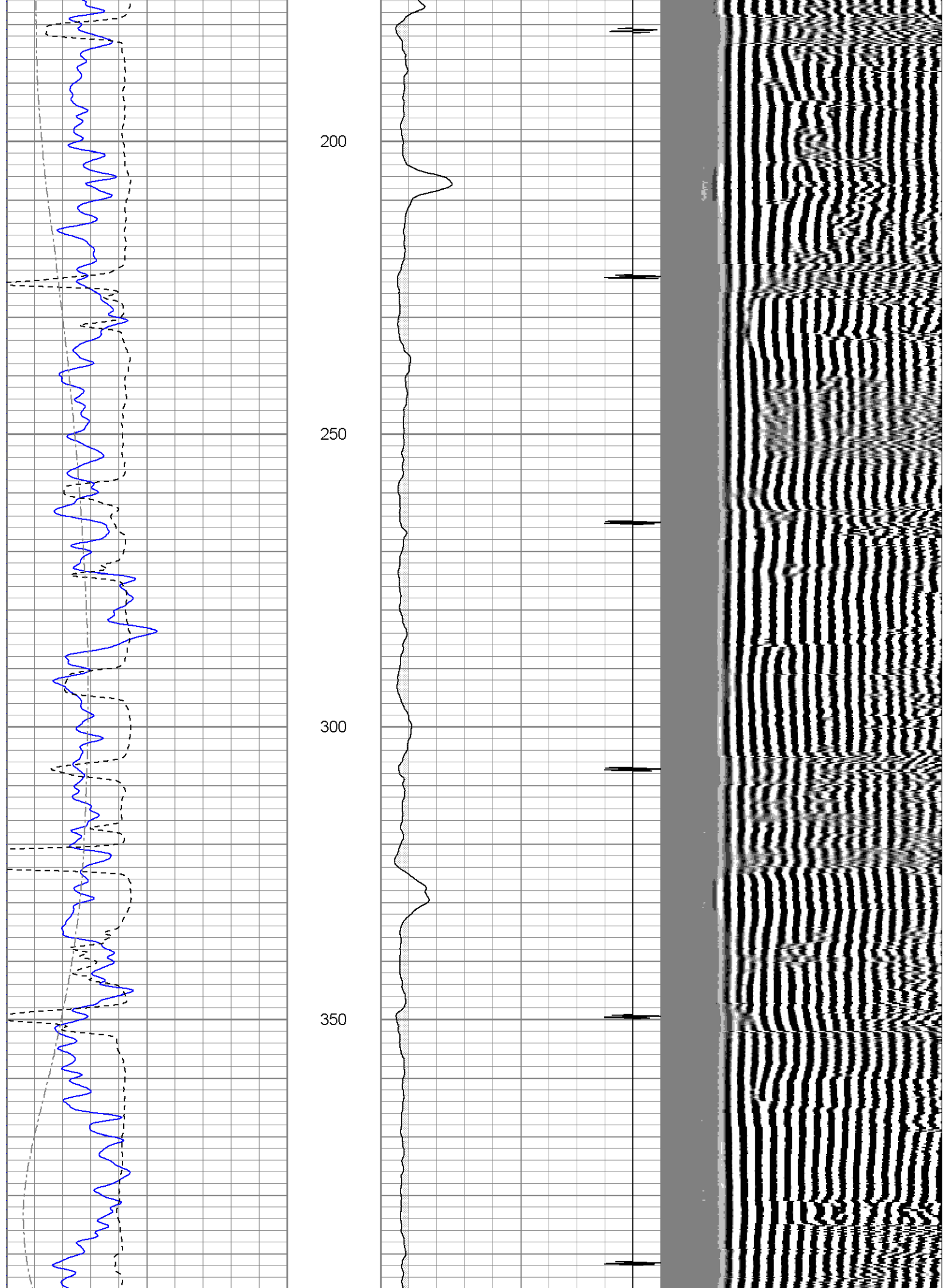
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Dataset Pathname: pass2.1
Presentation Format: cbl
Dataset Creation: Sat Oct 22 16:25:33 2011 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

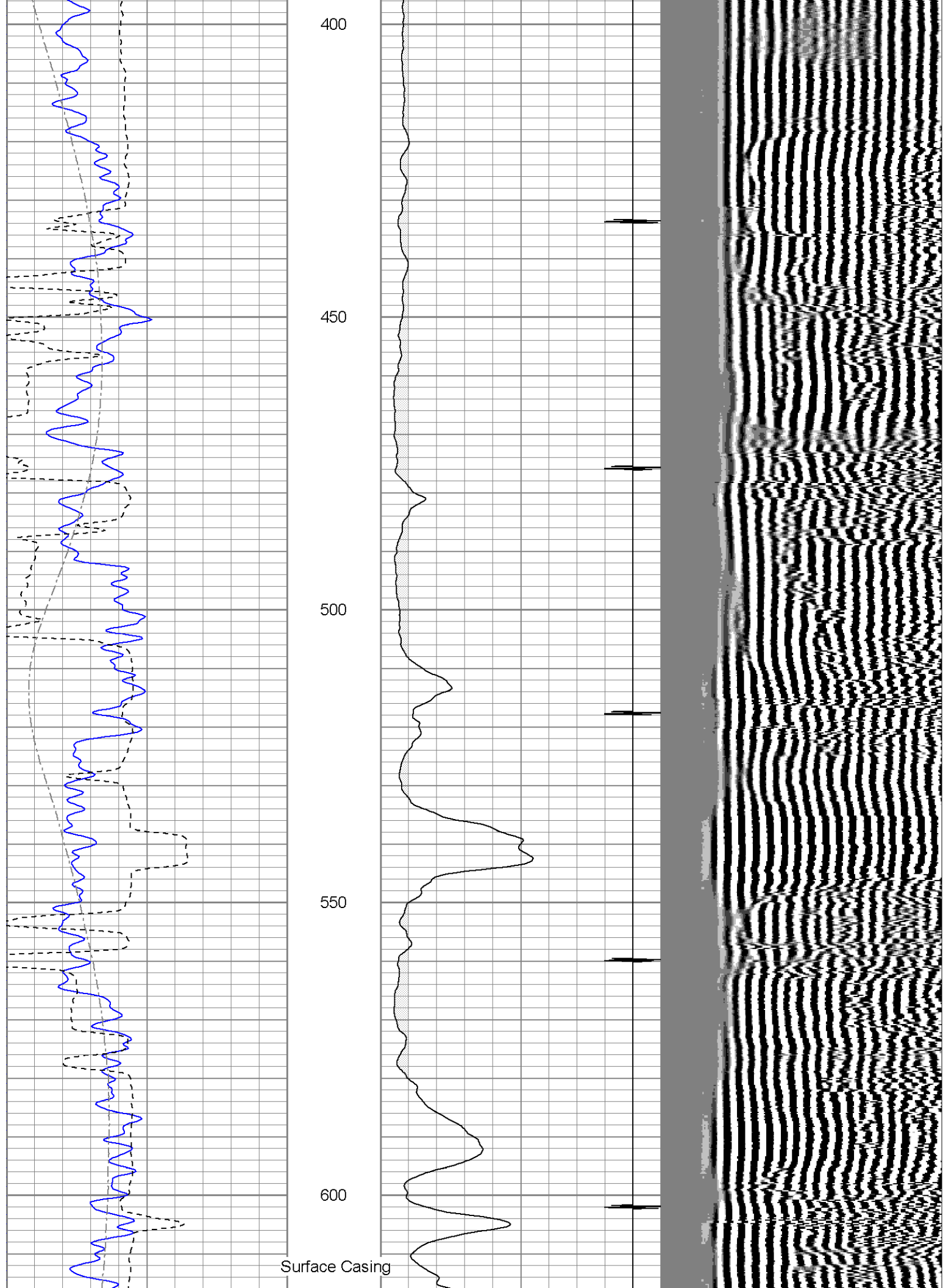
0	GR (GAPI)	200
200	GR (GAPI)	400
400	TT3 (usec)	200
0	DEVI (°)	10

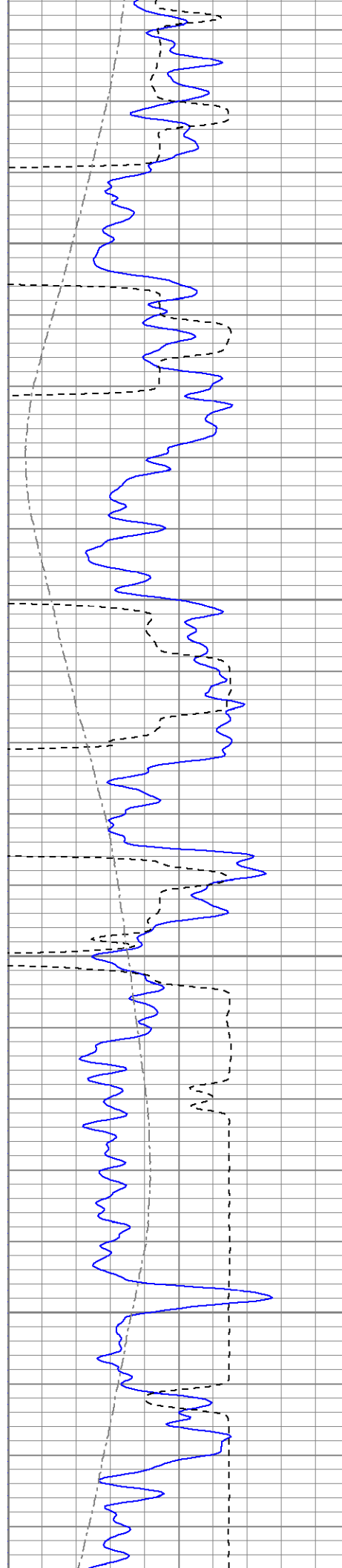
18	CCL	-2
0	AMP3 (mV)	100

200 VDL 1200







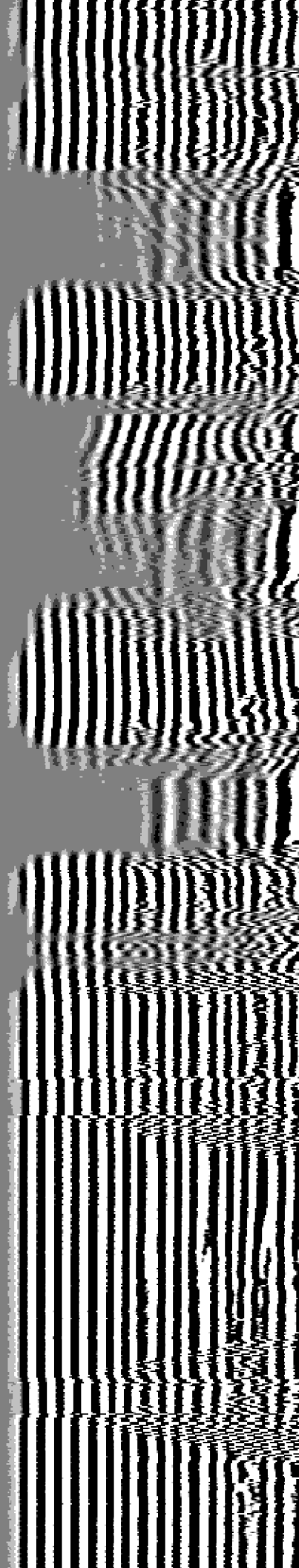
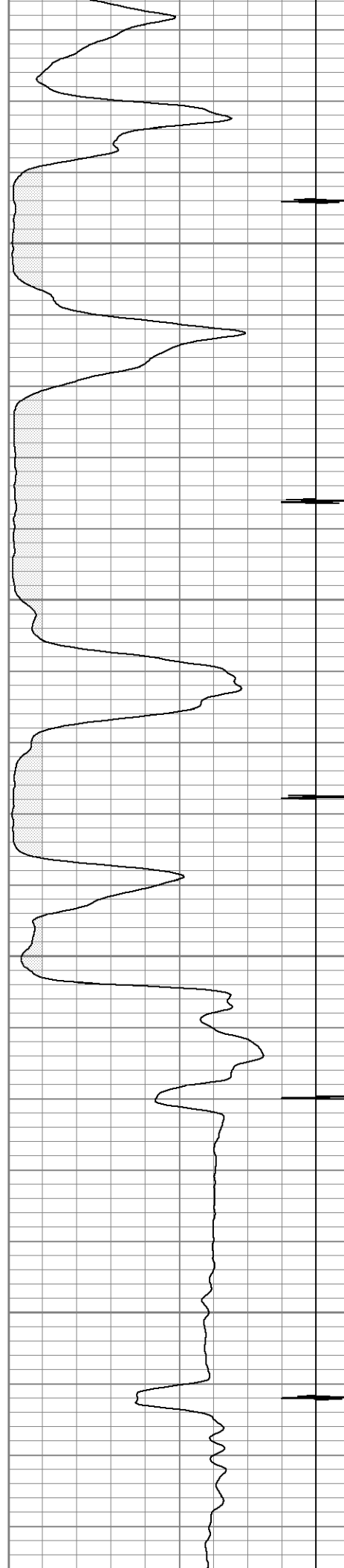


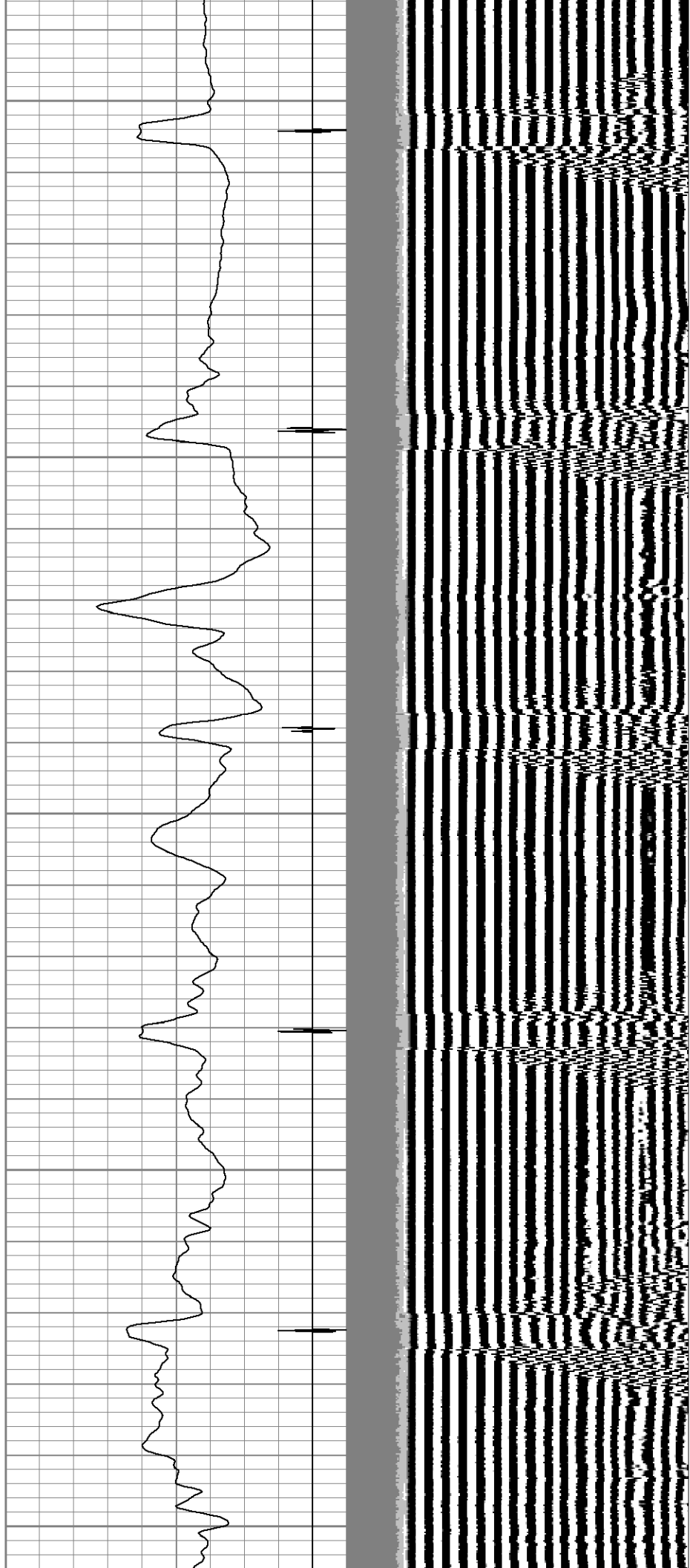
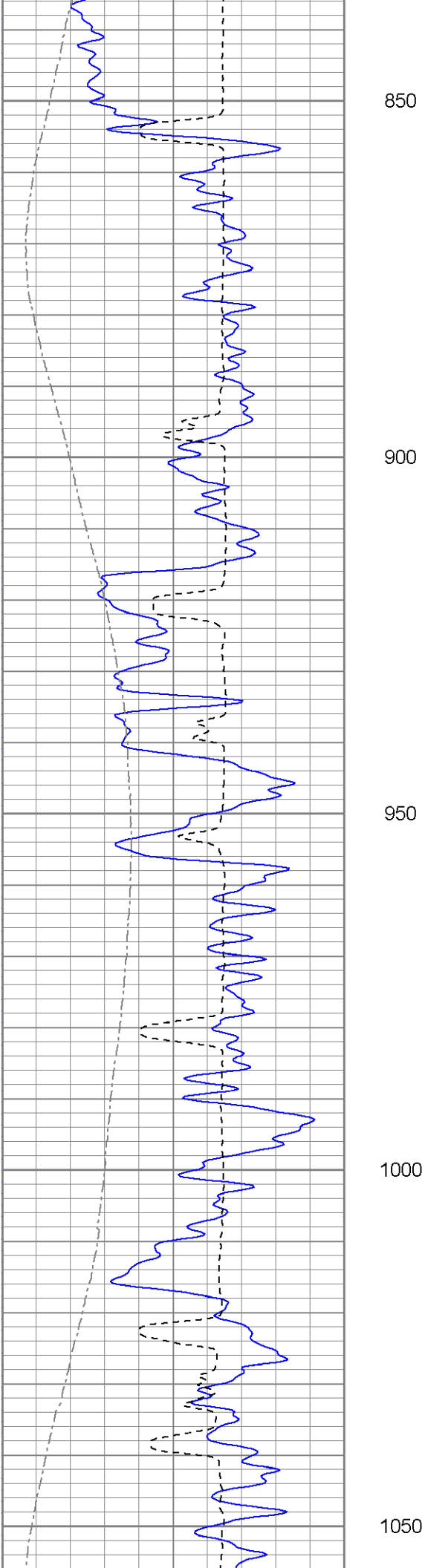
650

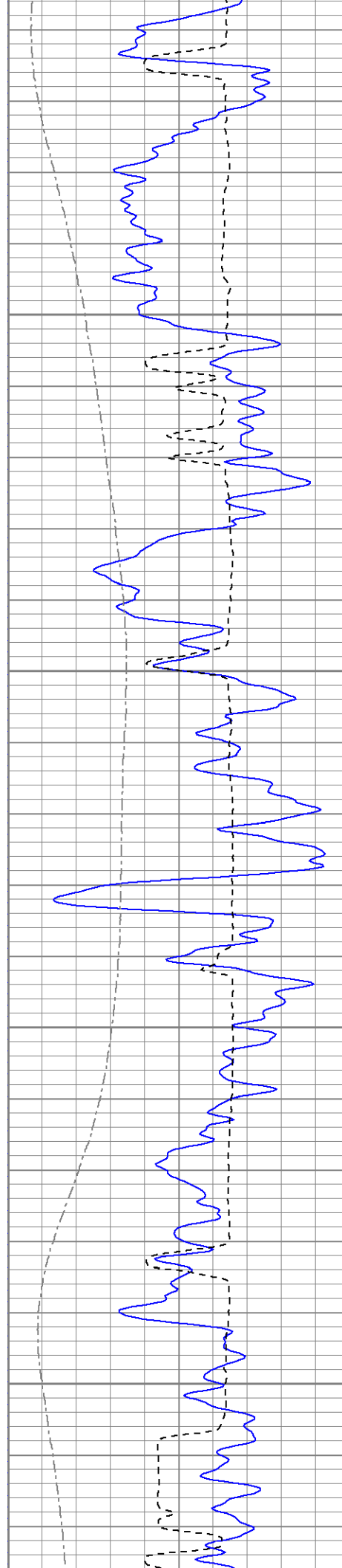
700

750

800





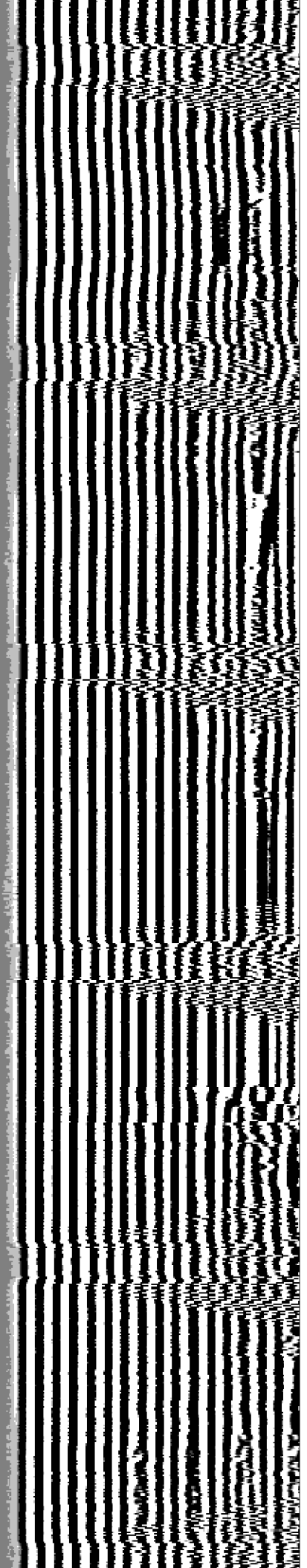
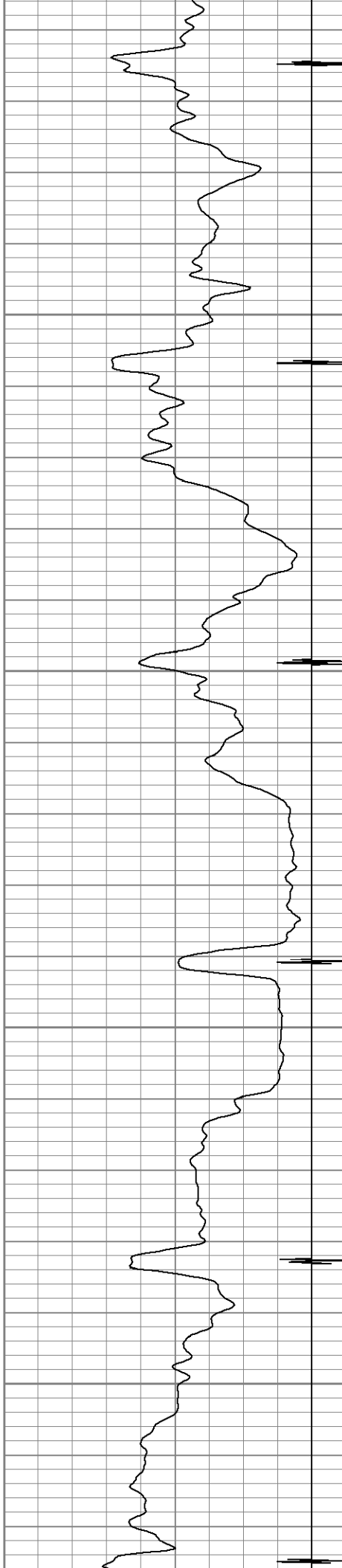


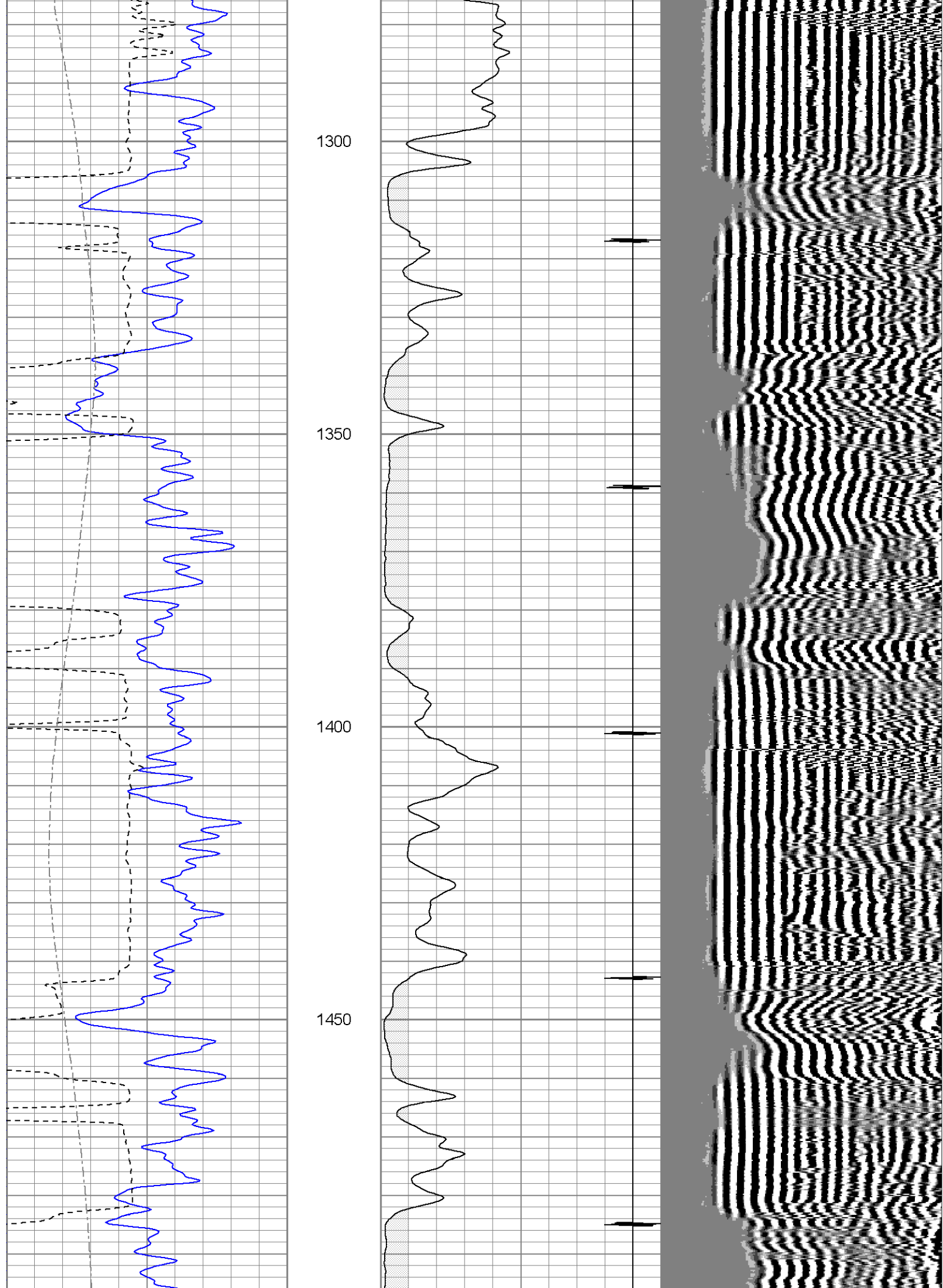
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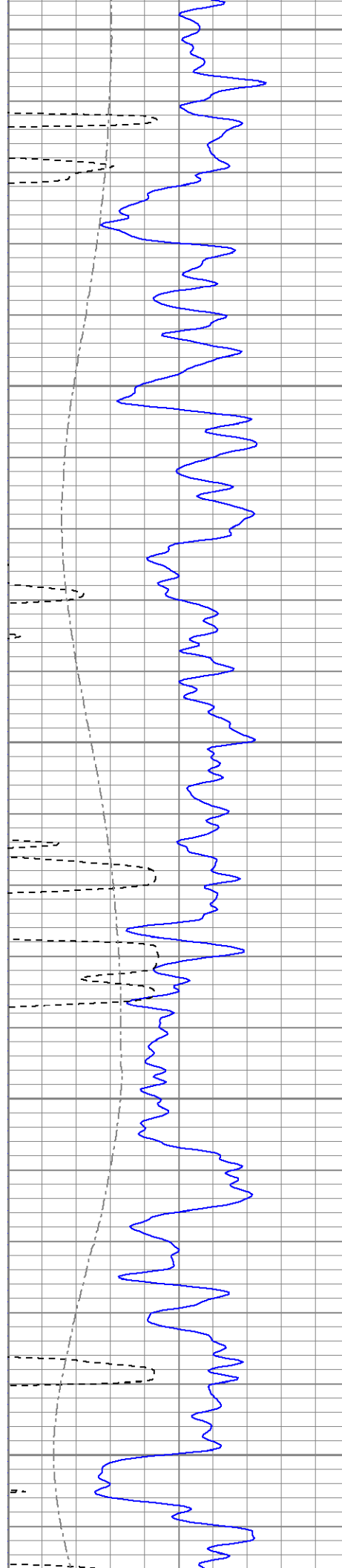
1150

1200

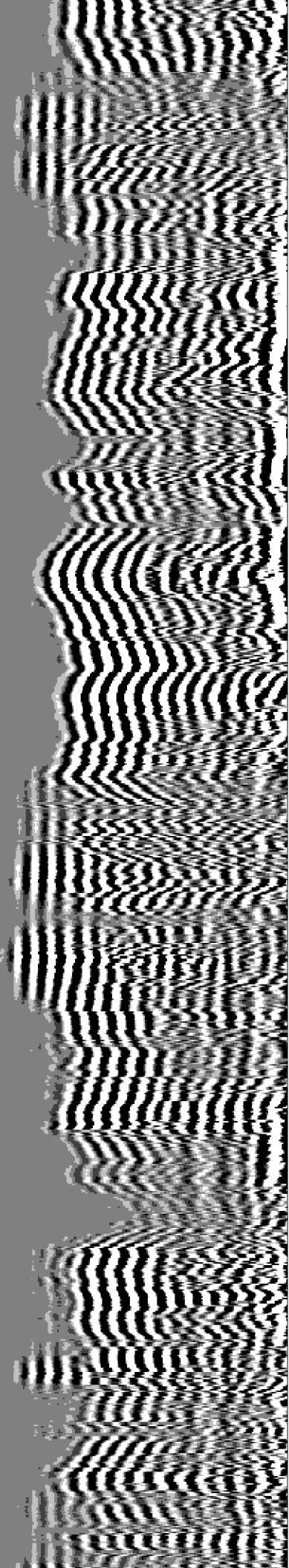
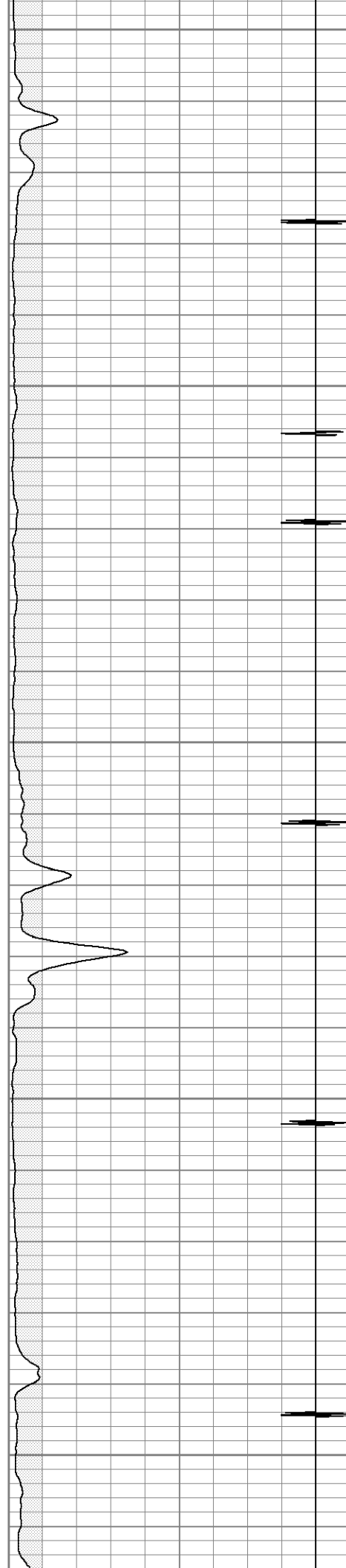
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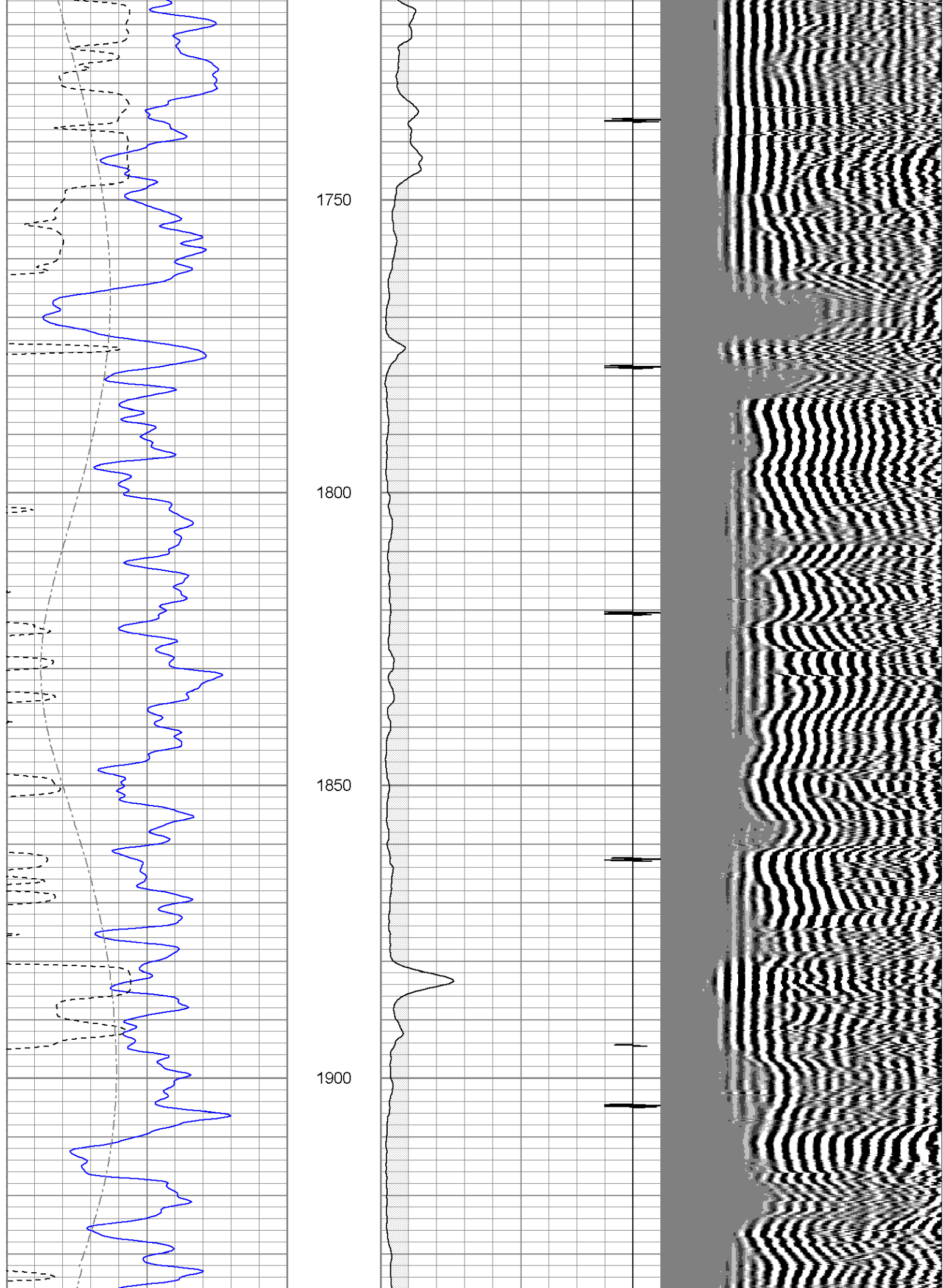


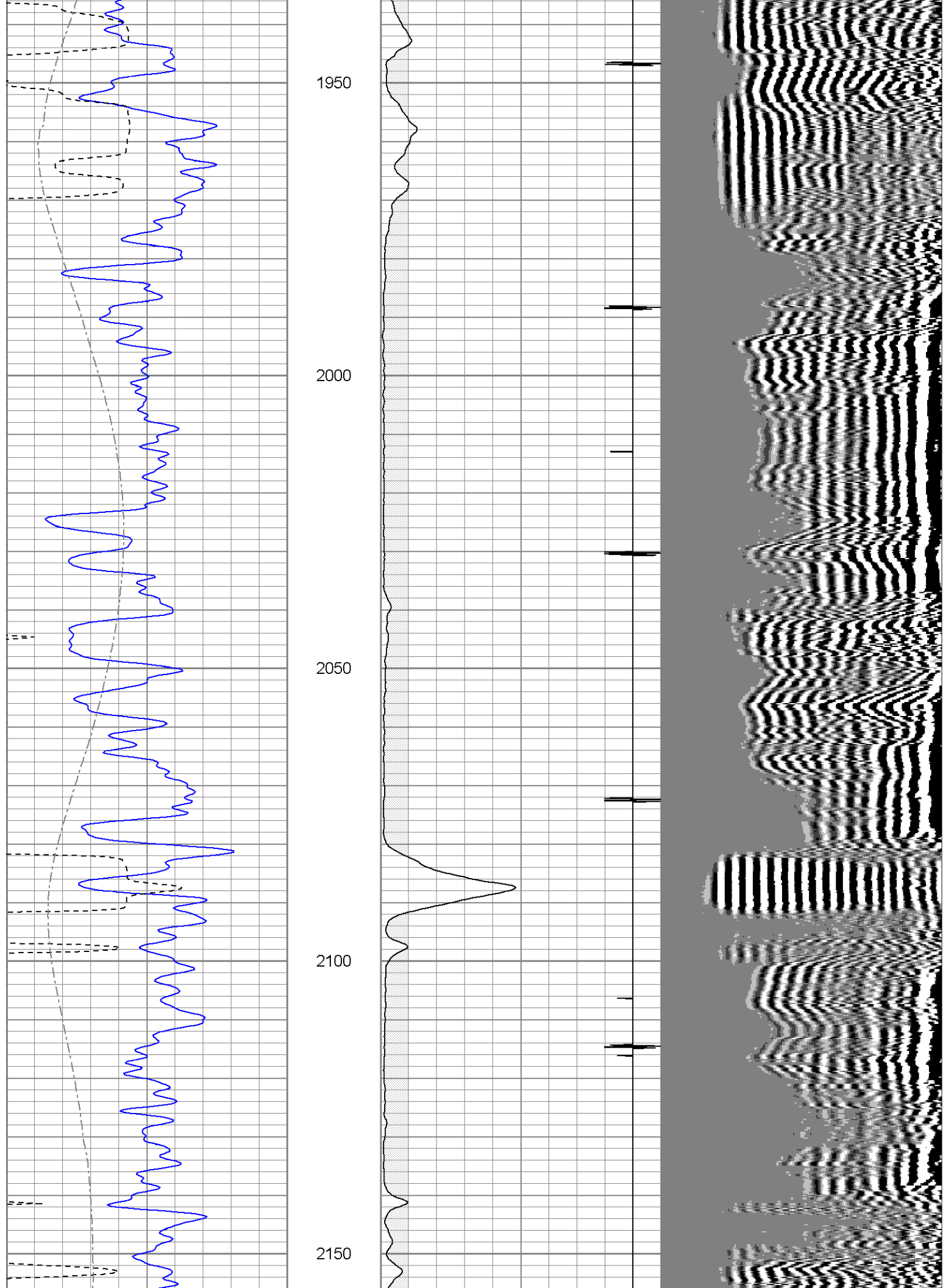


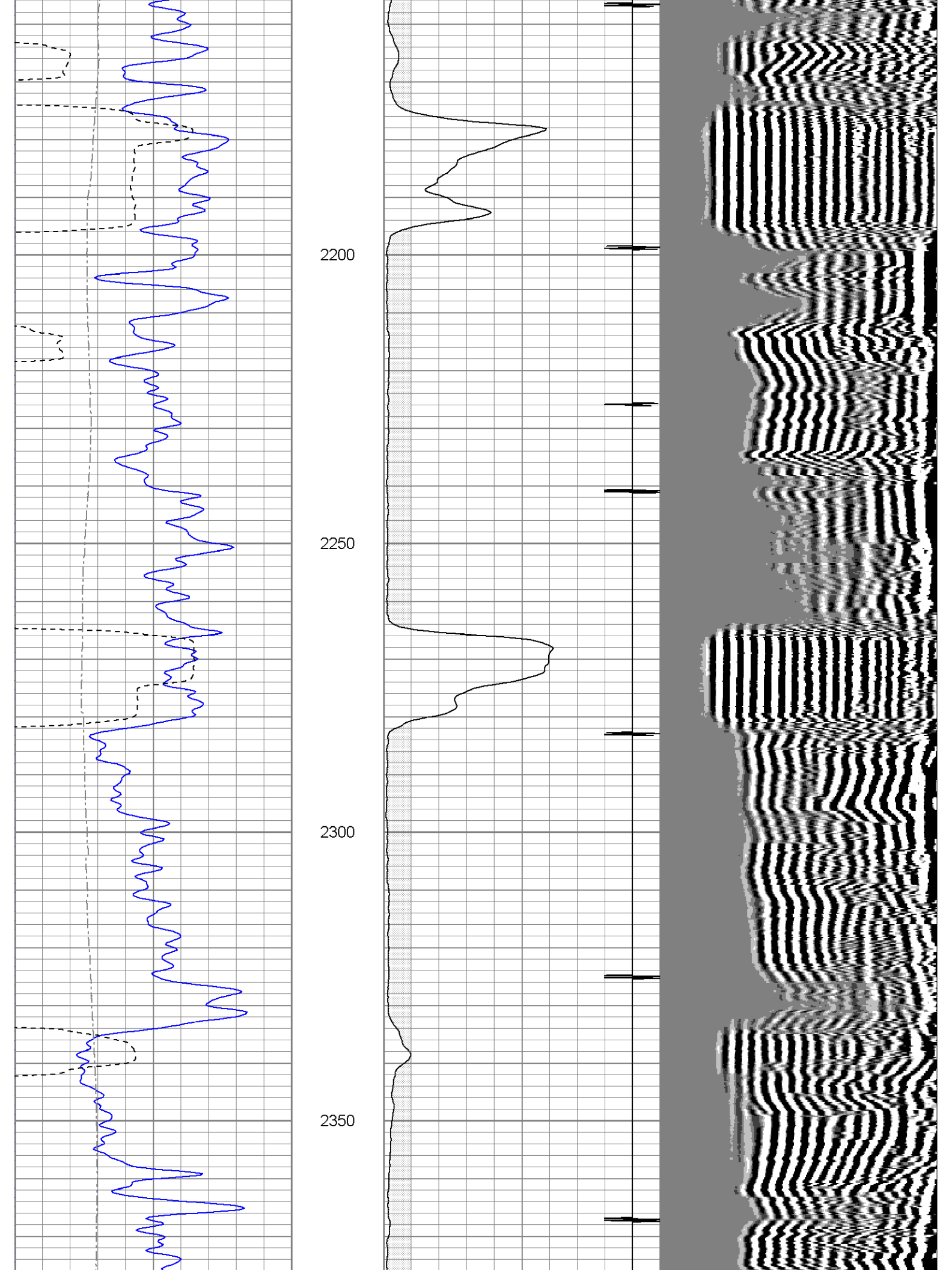


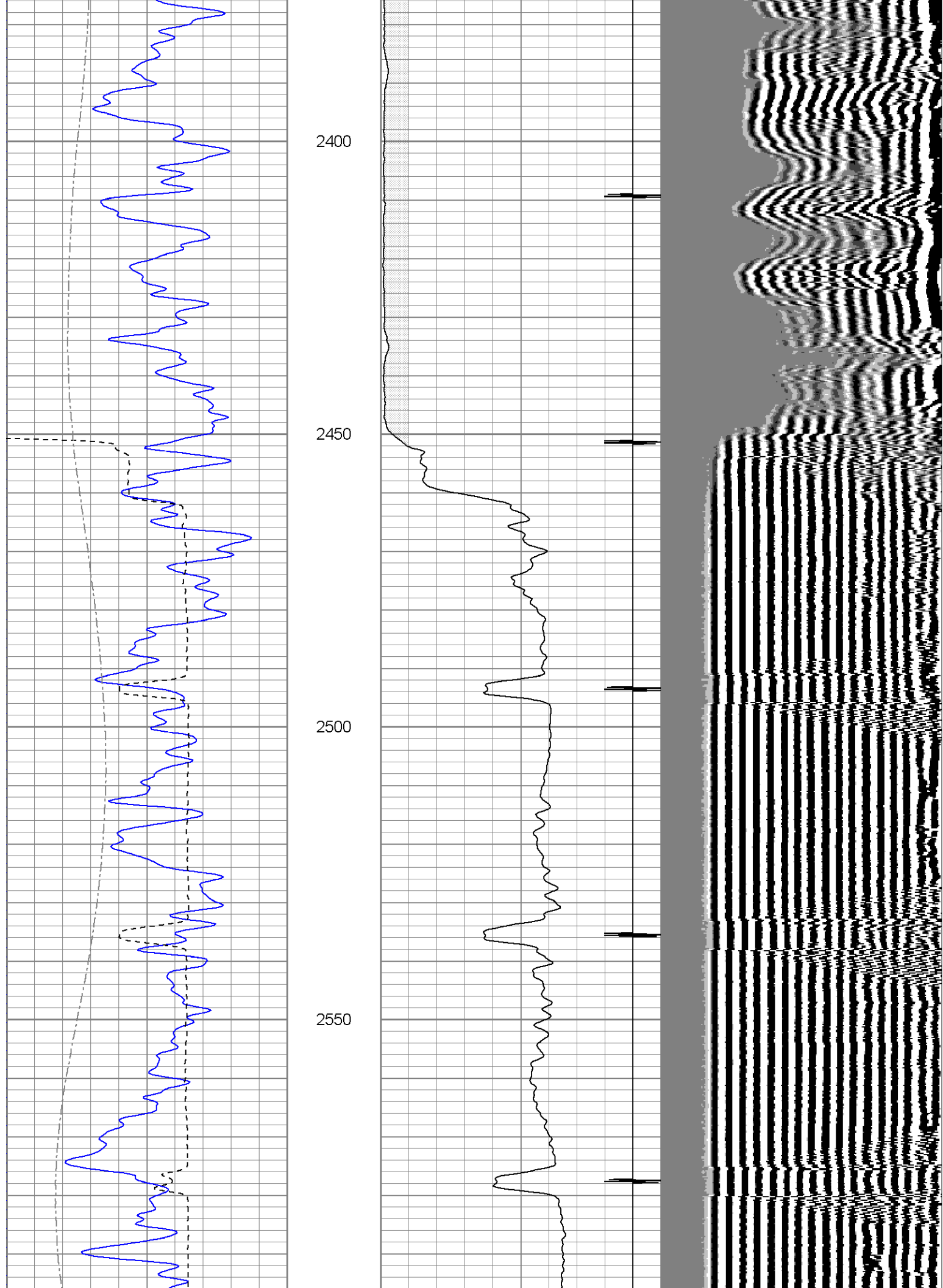
1500
1550
1600
1650
1700

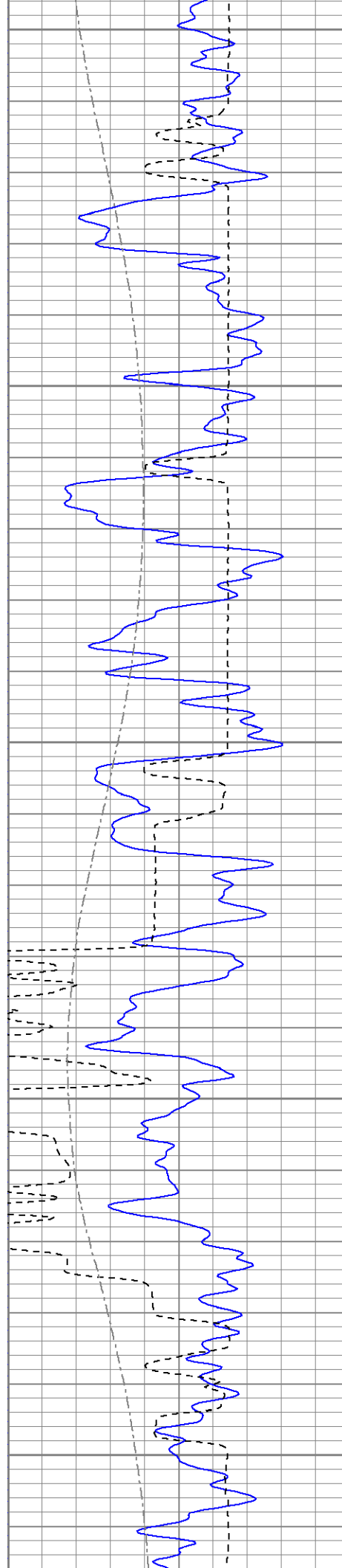












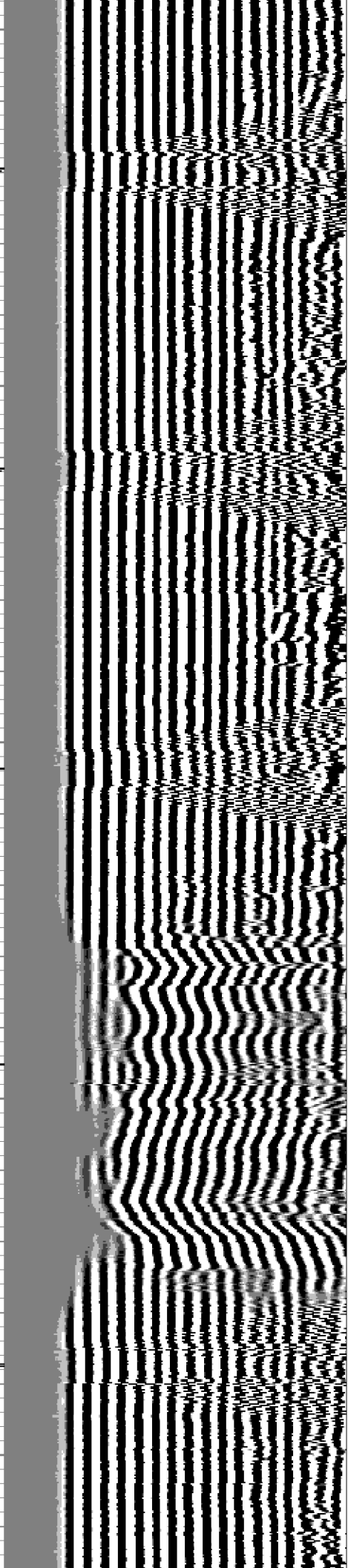
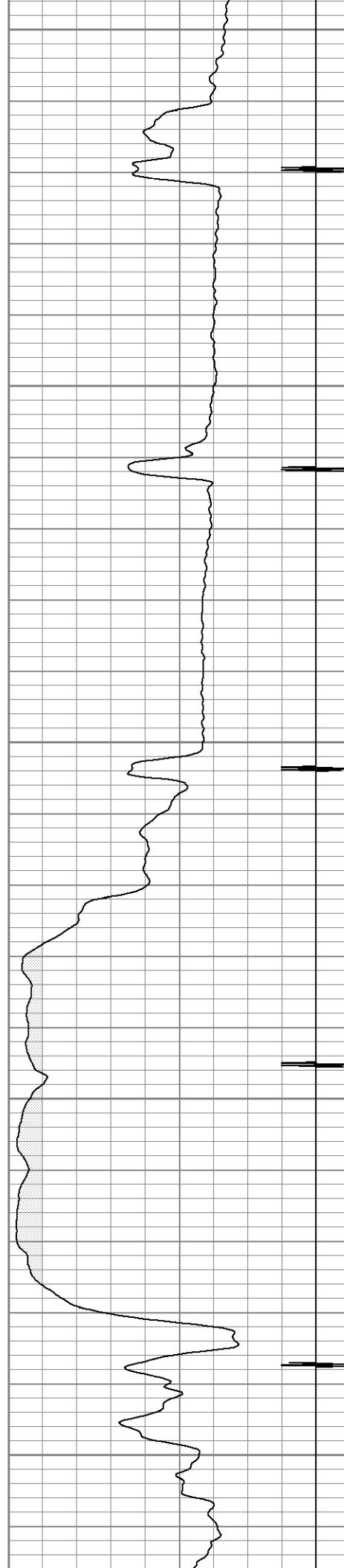
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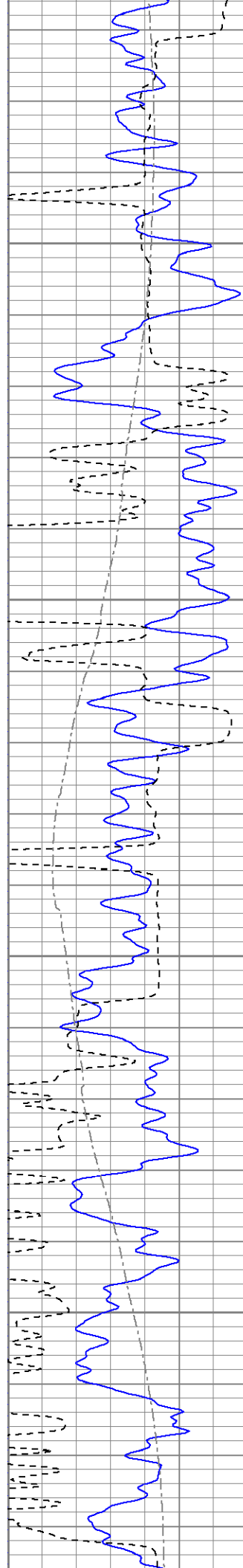
2650

2700

2750

2800





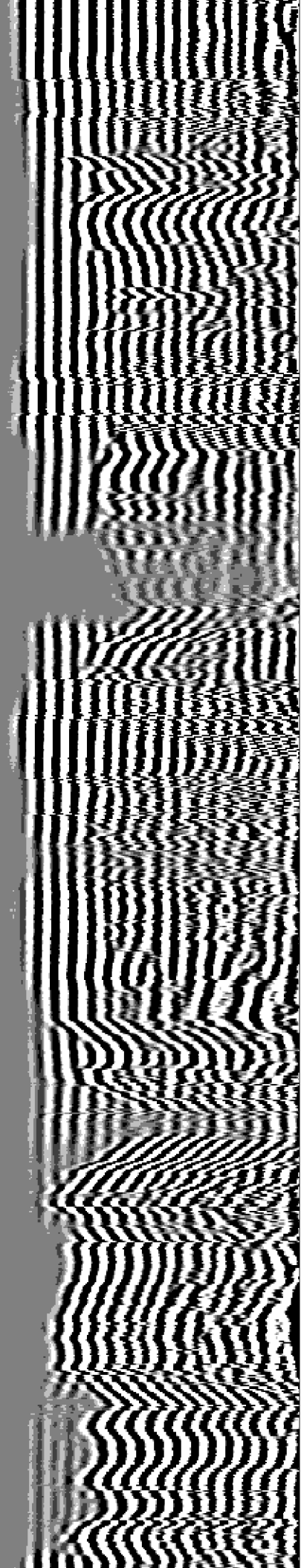
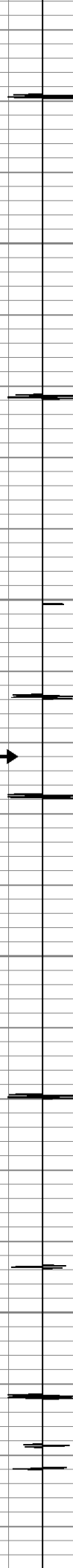
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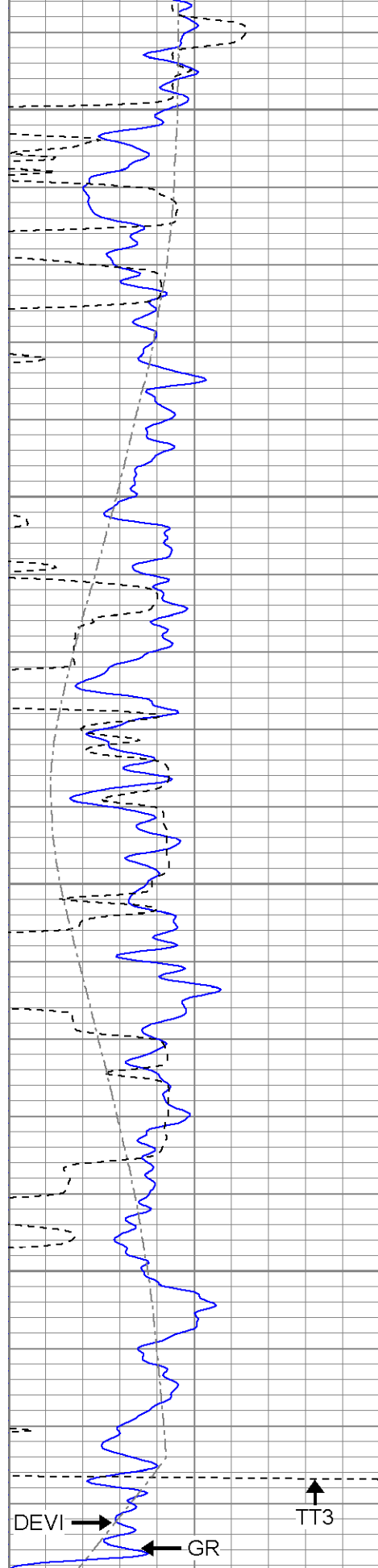
2900

2950

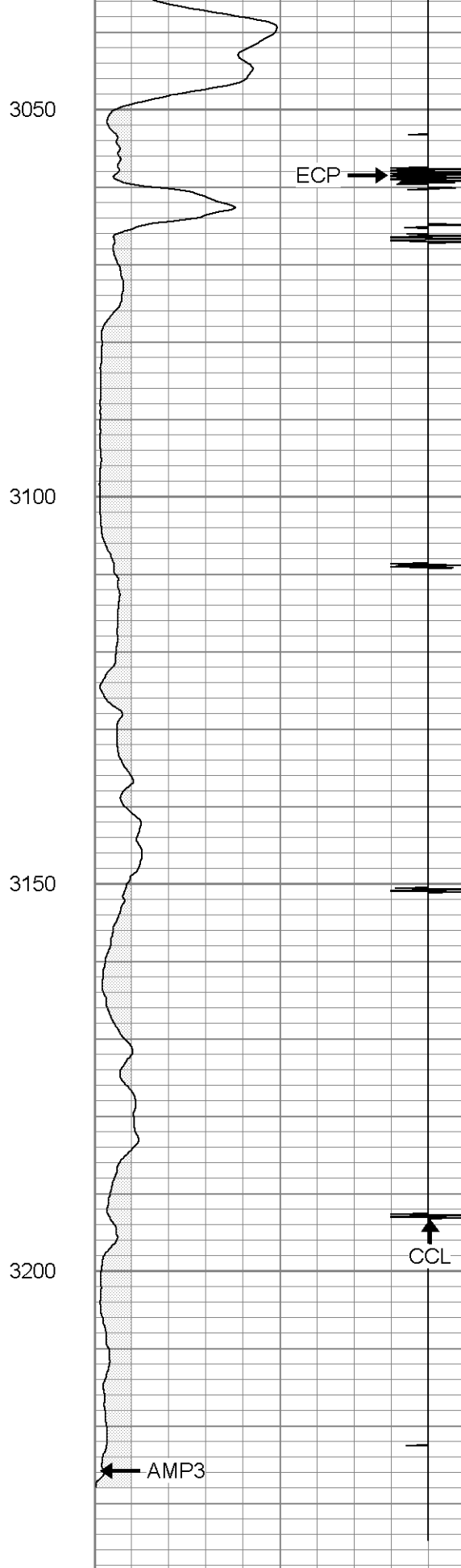
3000

Short Joint →

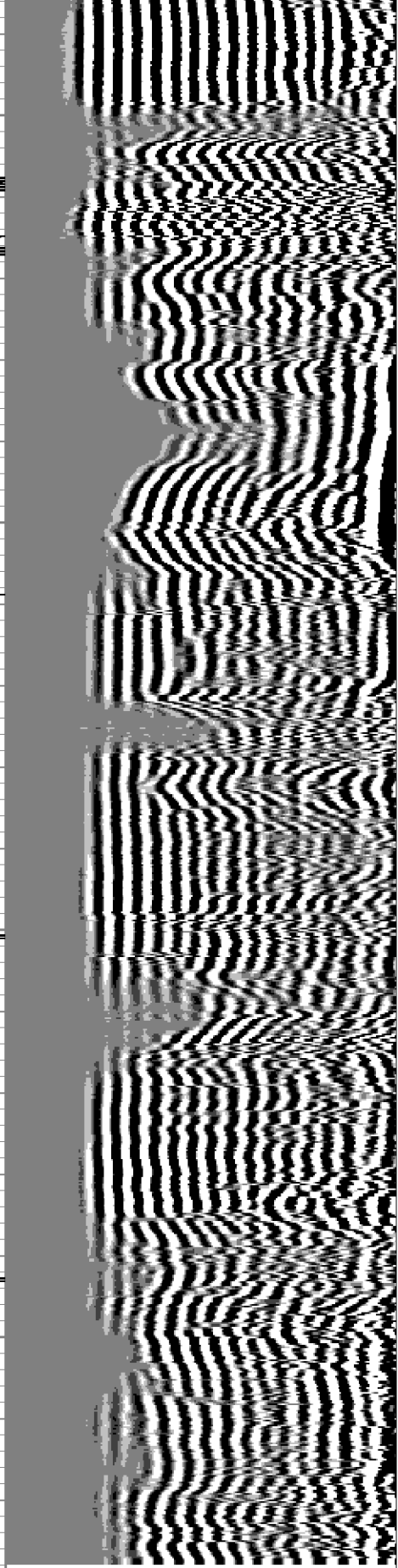




0	GR (GAPI)	200
200	GR (GAPI)	400
400	TT3 (usec)	200
0	DEVI (°)	10



18	CCL	-2
0	AMP3 (mV)	100



200	VDL	1200
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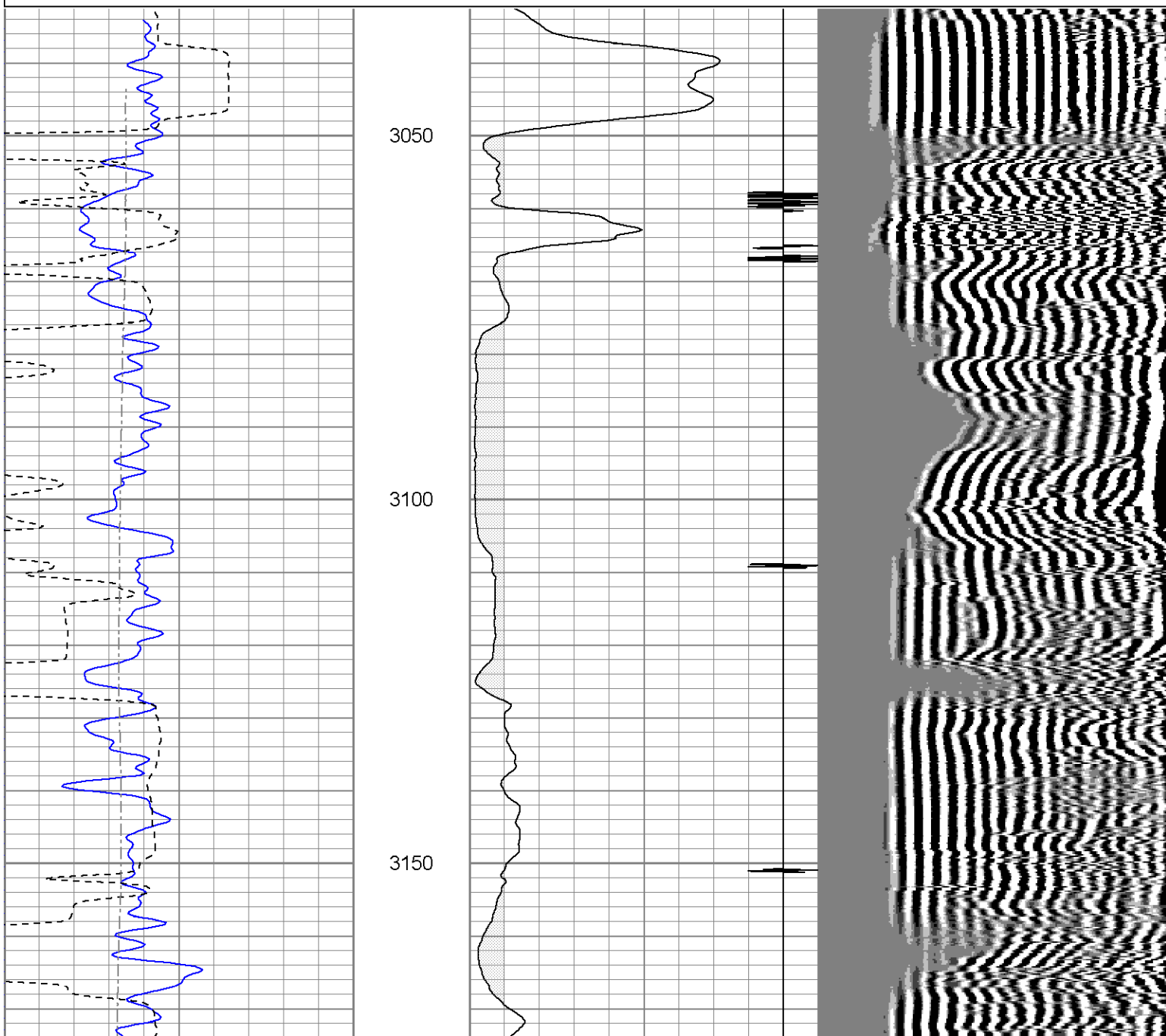


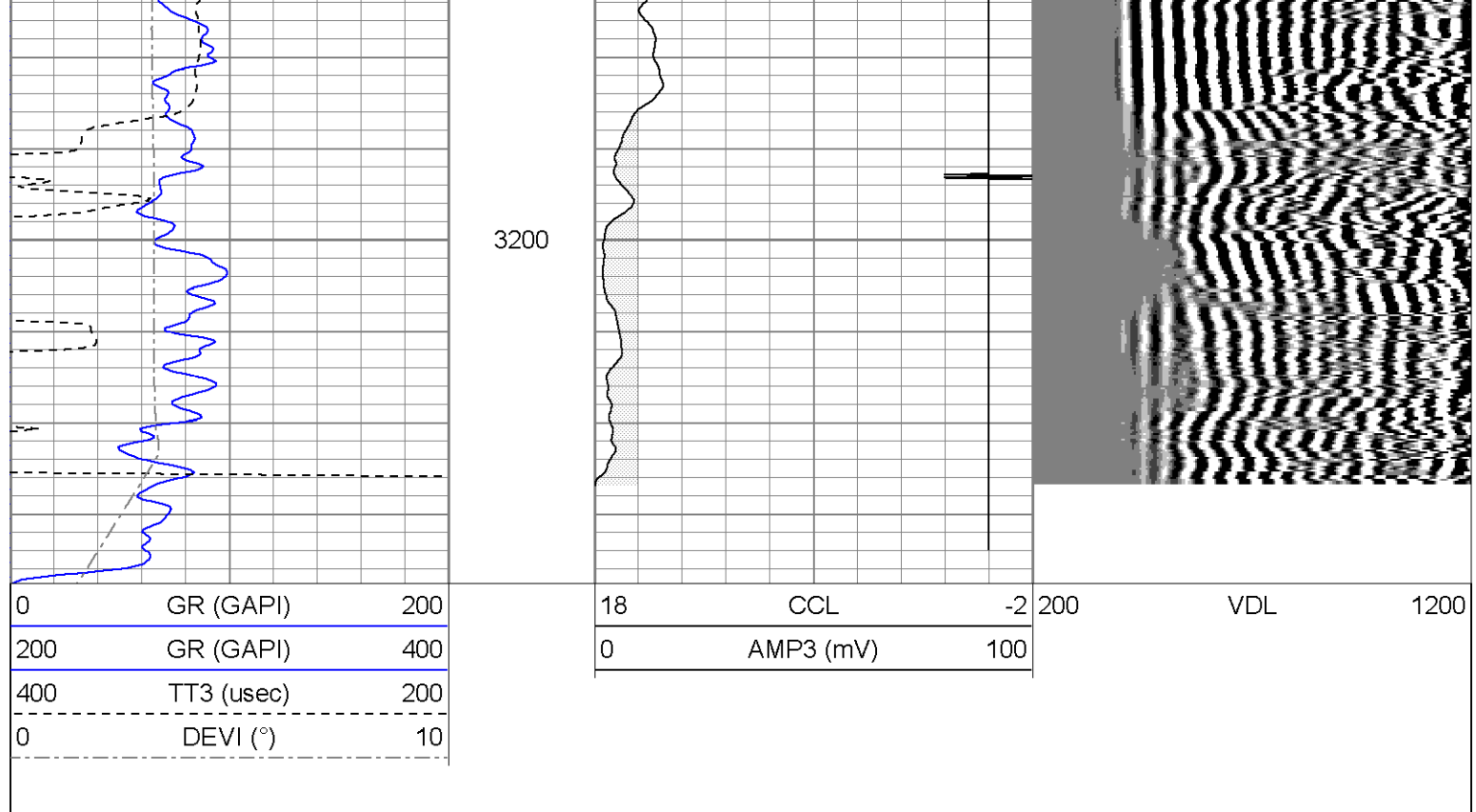
Repeat Pass

Database File: cedar102211b.db
 Dataset Pathname: pass1
 Presentation Format: cbl
 Dataset Creation: Sat Oct 22 15:22:01 2011 by Log Open-Cased 071220
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
200	GR (GAPI)	400
400	TT3 (usec)	200
0	DEVI (°)	10

18	CCL	-2	200	VDL	1200
0	AMP3 (mV)	100			





Calibration Report

Database File: cedar102211b.db
 Dataset Pathname: pass1
 Dataset Creation: Sat Oct 22 15:22:01 2011 by Log Open-Cased 071220

Gamma Ray Calibration Report

Serial Number: 080616
 Tool Model: 275D_INC
 Performed: Sun Jun 13 14:33:21 1993

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Inclinometer Calibration Report

Performed: Tue Jul 08 09:40:49 2008

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3583.40	3594.20	-1.00	1.00	gee
Y Accelerometer	-3588.80	3532.80	-1.00	1.00	gee
Z Accelerometer					

Cement Bond Log Calibration Report

Serial Number: 080201
 Tool Model: PROBEDIITALCBL
 Performed: Sat Oct 22 15:09:19 2011

	3' Spacing	5' Spacing
Signal Zero:	1	0
Calibrated Amplitude:	85	85
Reading at Signal Zero:	0.00725098	0.0069335
Reading in Free Pipe:	0.838647	0.819751
Gain:	101.035	104.575
Offset:	0.267399	-0.725077

[illegible]