



Radial Cement Bond
Gamma Ray
Casing Collar Log

Company		TEP Rocky Mountain LLC	
Well		Federal WMC 331-20	
Field		Rulison	
County		Garfield	
State		Colorado	
Location:		API # : 05-045-24500	
SEC 17 TWP 7S RGE 93W		Other Services	
Permanent Datum		Ground Level	Elevation 8868 FT
Log Measured From		Kelly Bushing	K.B. 8898 FT
Drilling Measured From		Kelly Bushing	D.F. 8898 FT
			G.L. 8868 FT
Date	04-JAN-2023		
Run Number	One		
Depth Driller	11075 FT		
Depth Logger	10997 FT		
Bottom Logged Interval	10990 FT		
Top Log Interval	Surface		
Open Hole Size	8.75"		
Type Fluid	Water		
Density / Viscosity	8.34 Lb/Gal		
Max. Recorded Temp.	259 °F		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	12:15		
Equipment Number	8045		
Location	Grand Junction		
Recorded By	P. Edwards		
Witnessed By	D. Welsh		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
			From
			To
Casing Record	Size	Wgt/Ft	Top
Surface String	9-5/8"	36	Surface
Prot. String			Bottom
Production String	4-1/2"	11.6	Surface
Liner			11075 FT

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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

Log is correlated to 30' K.B.
Marker joint logged @ 6485 FT - 6495 FT
Log ran with 0 PSI at surface

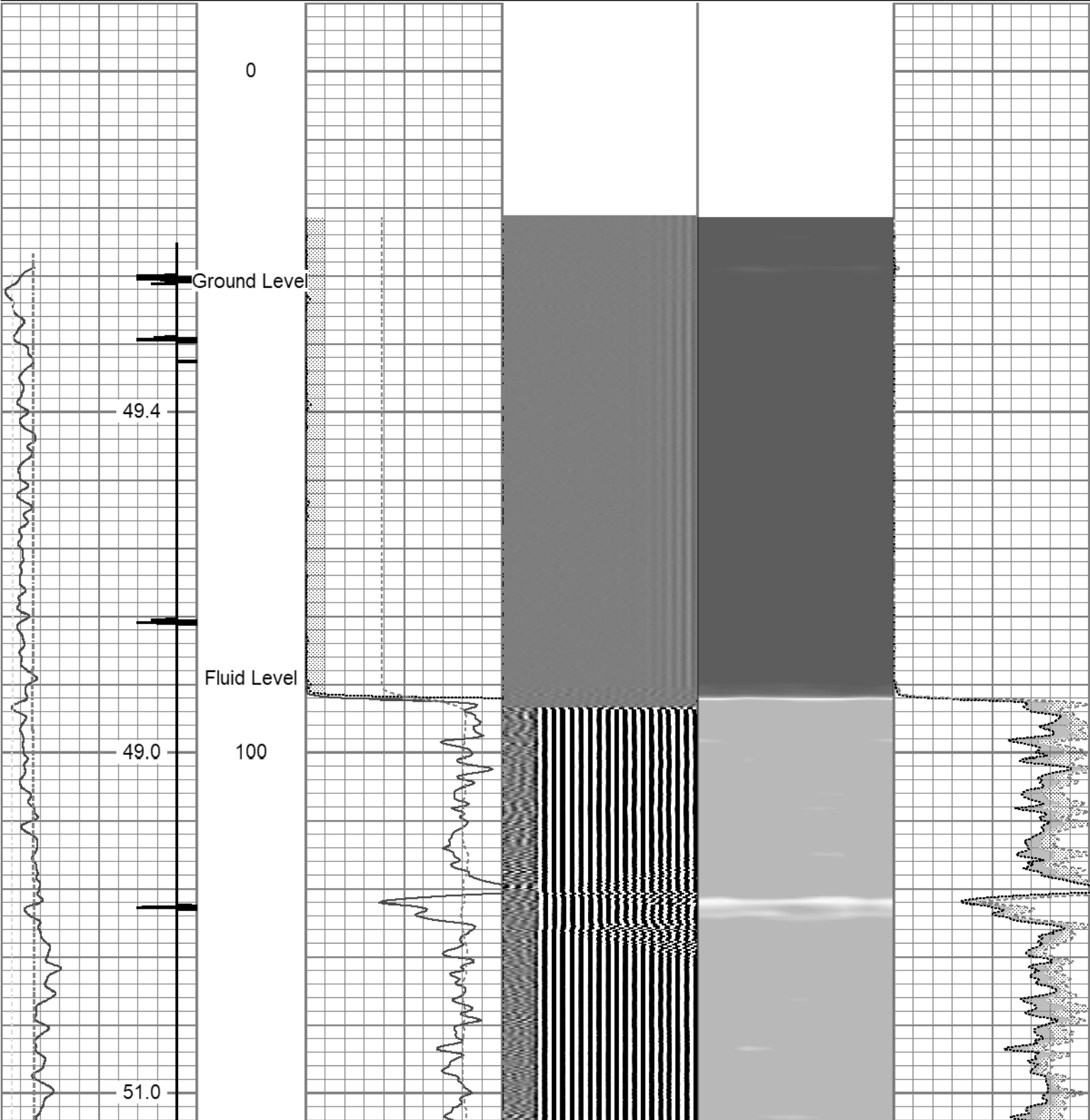
Thank you for choosing The Wireline Group!

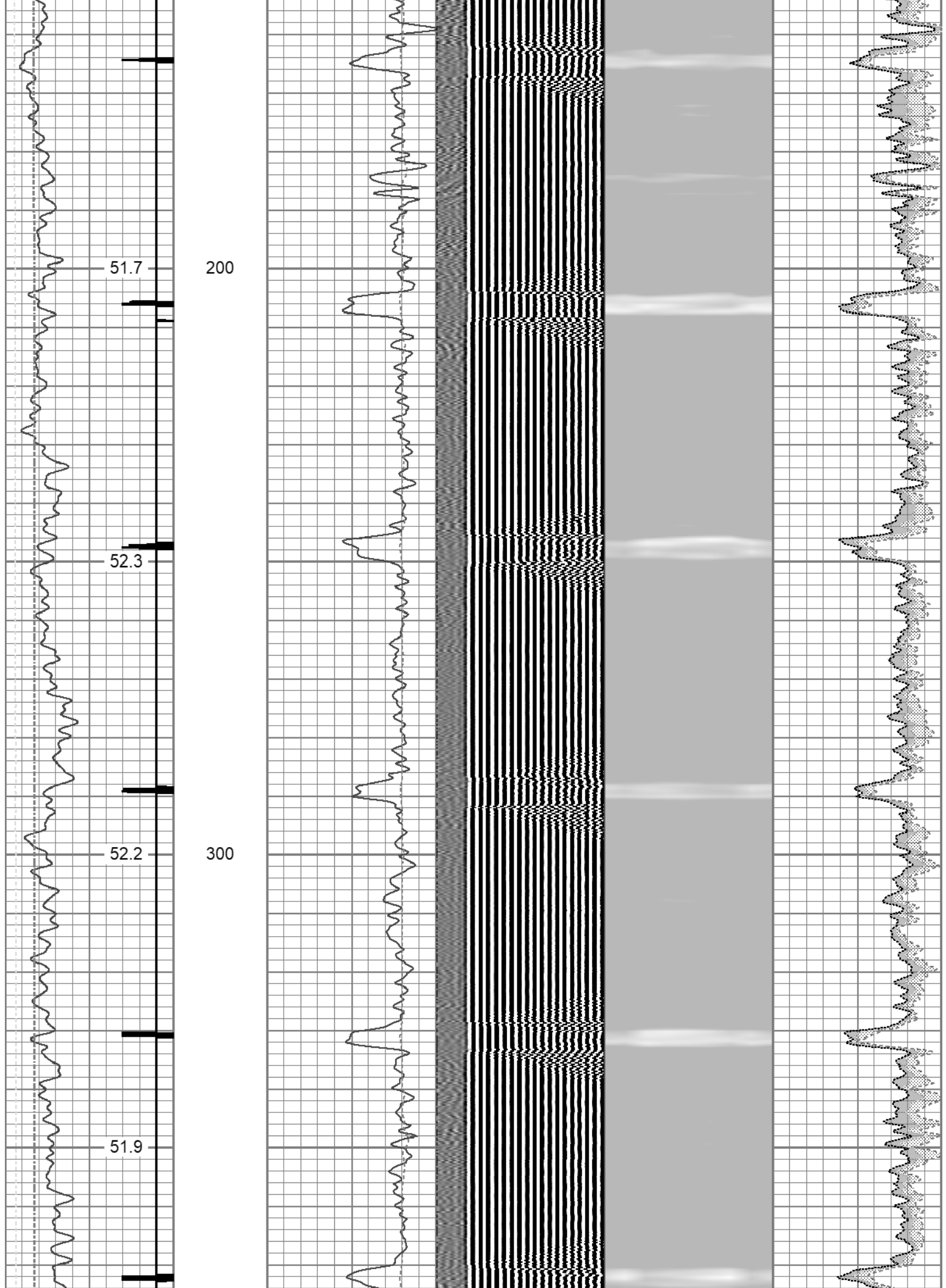


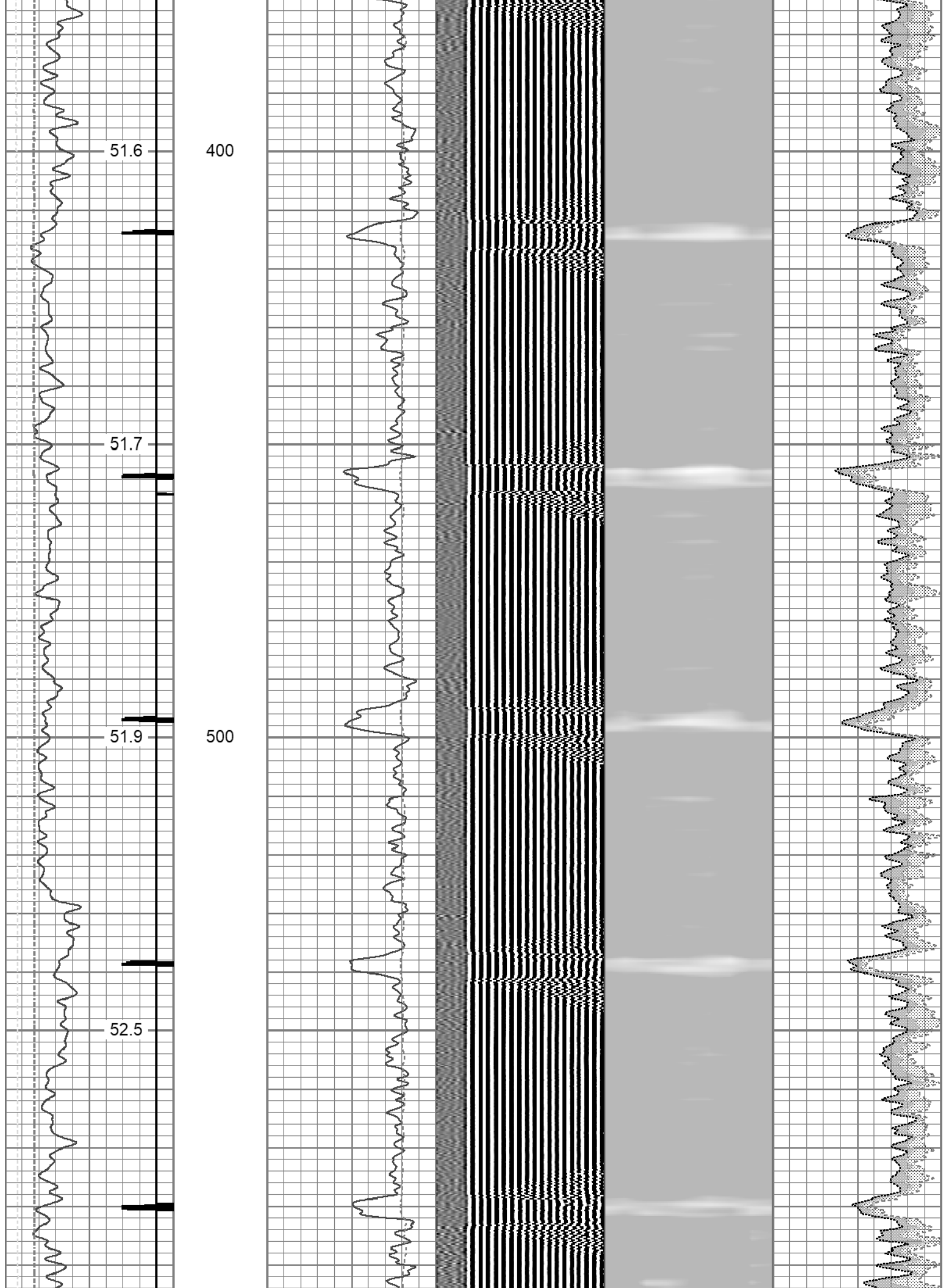
Main Pass 5" = 100'

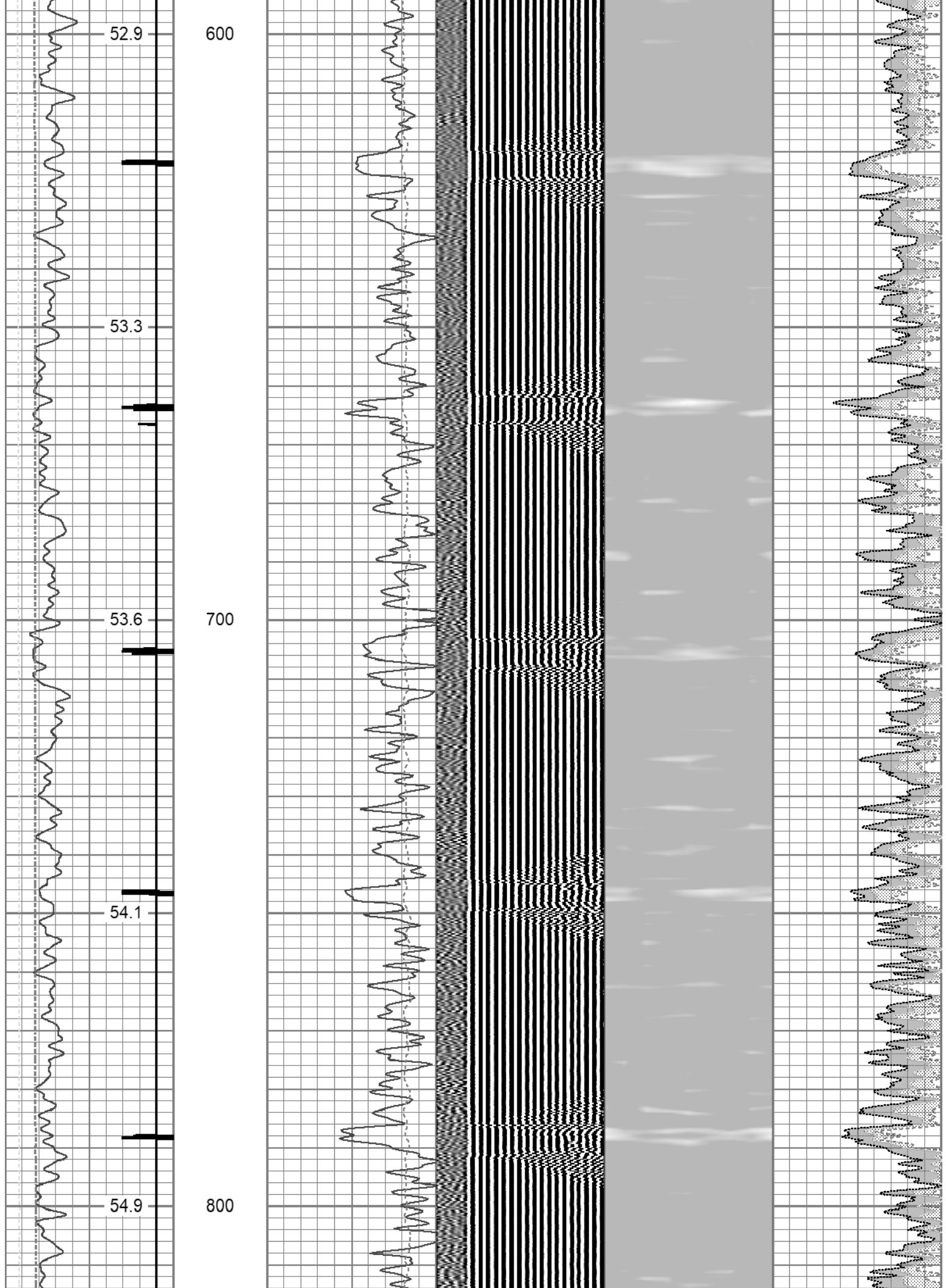
Database File	tep_wmc fed 331-20_rcbl_1-4-2023.db
Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Wed Jan 04 12:15:39 2023
Charted by	Depth in Feet scaled 1:240

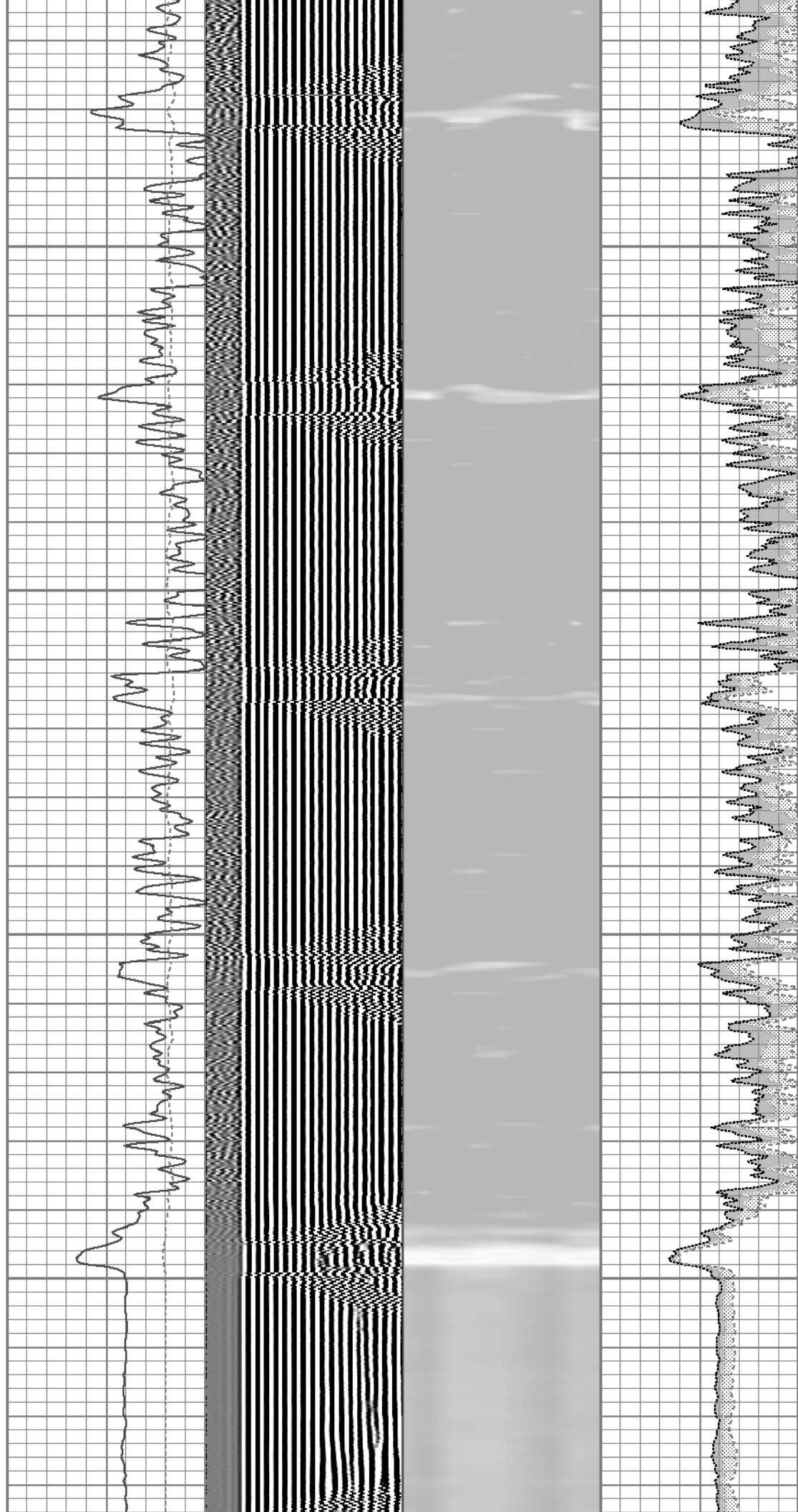
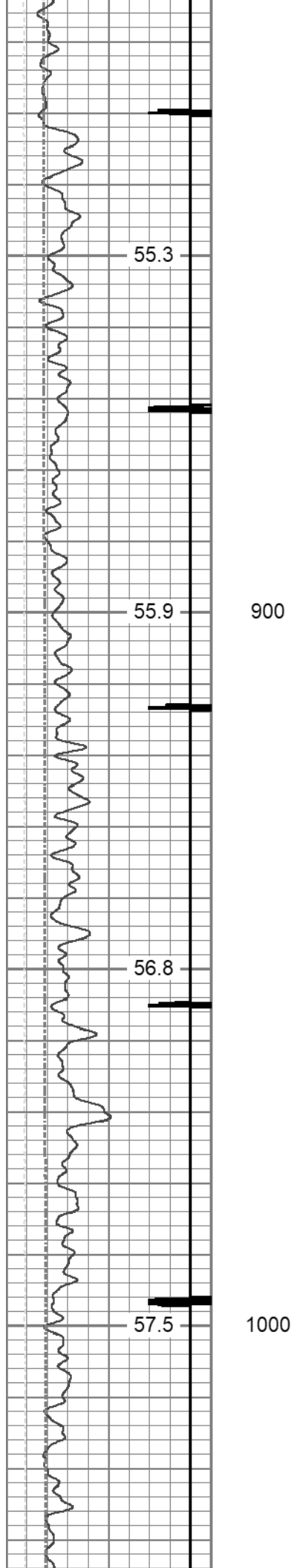
Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 200		0 (mV) 100	200 (usec) 1200		0 120
Line Tension		3' Amplitude x 5			Minimum Amplitude
0 (lb) 4000		0 (mV) 20			0 120
-9 CCL 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120



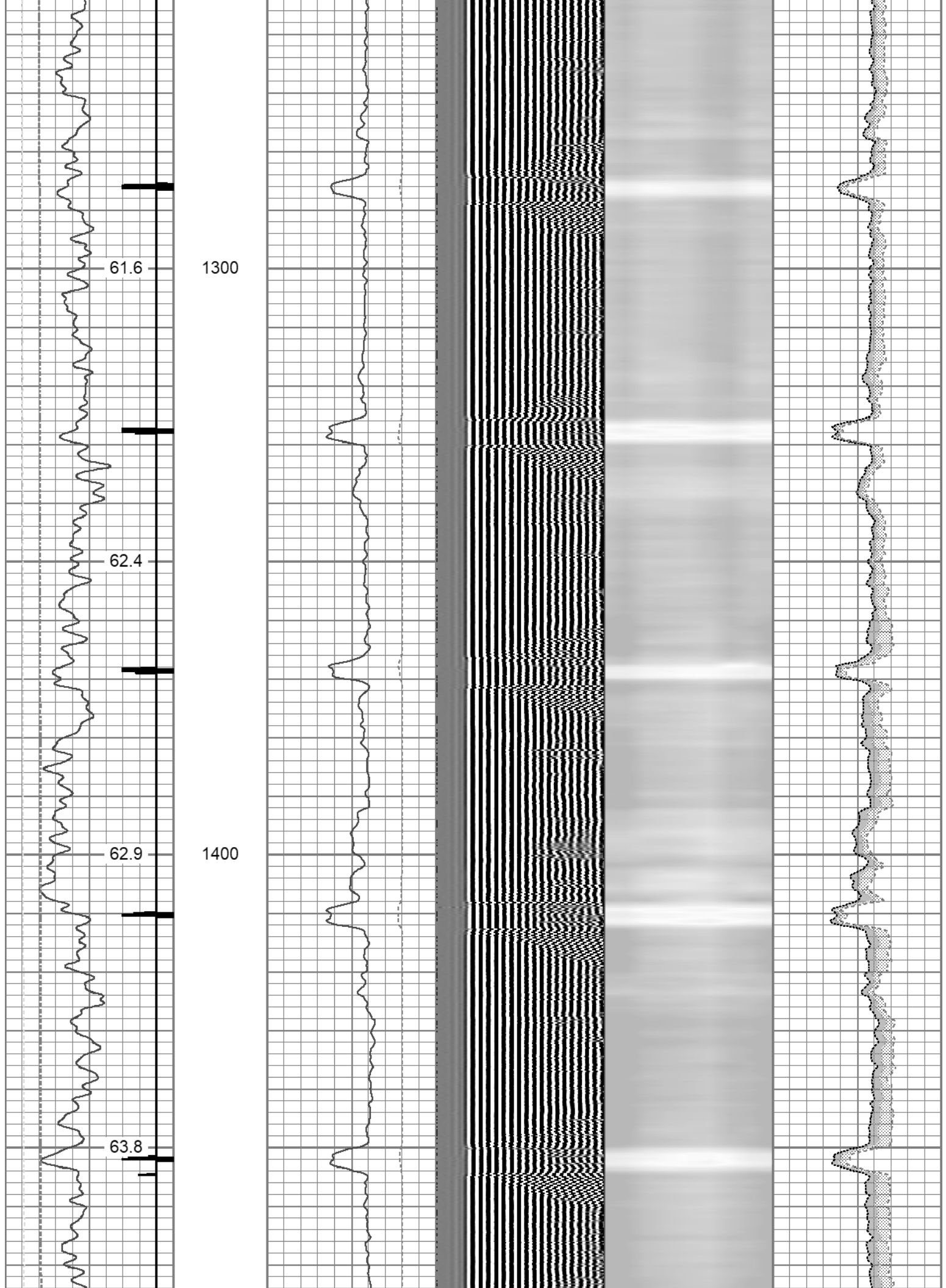






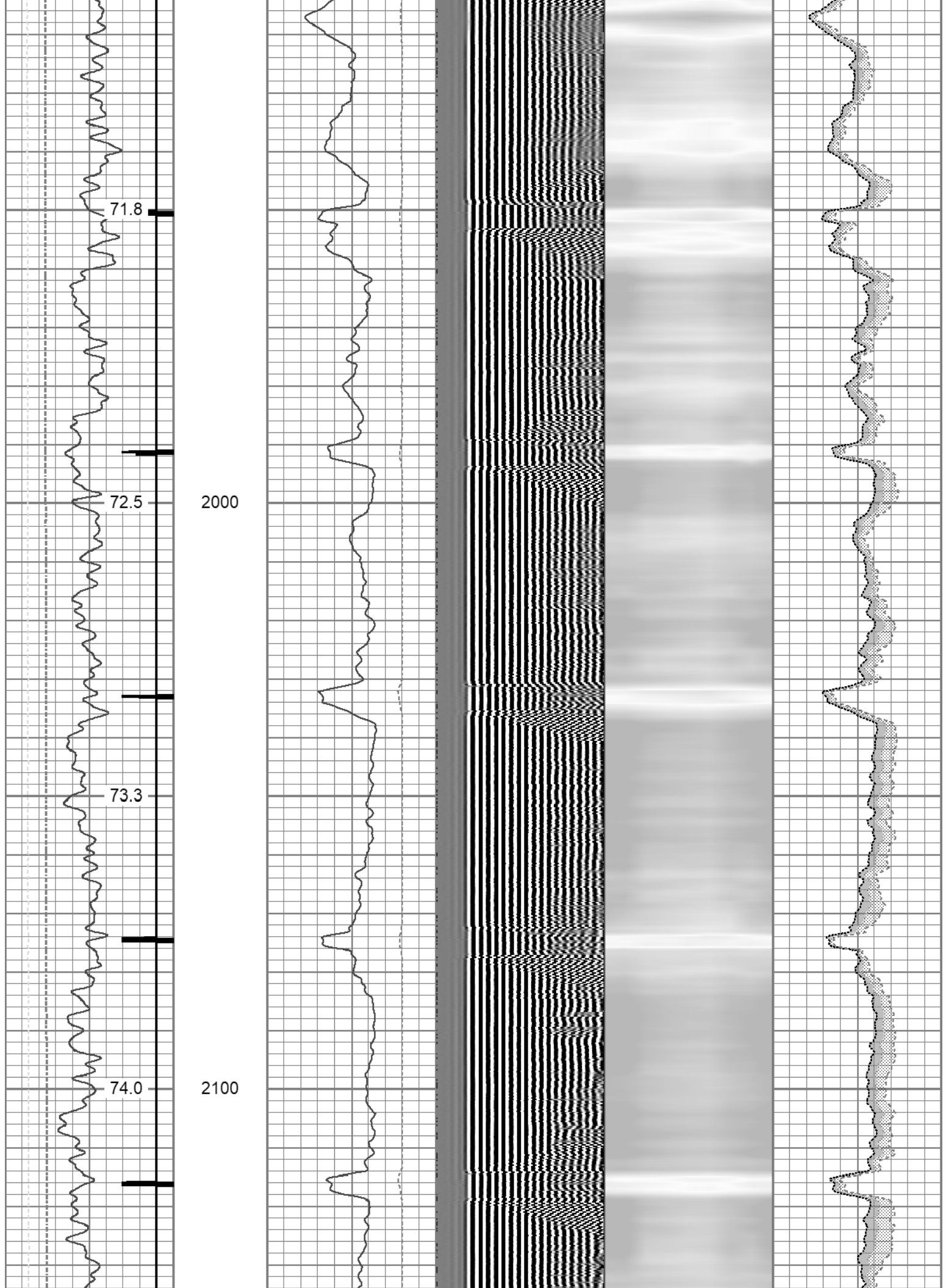




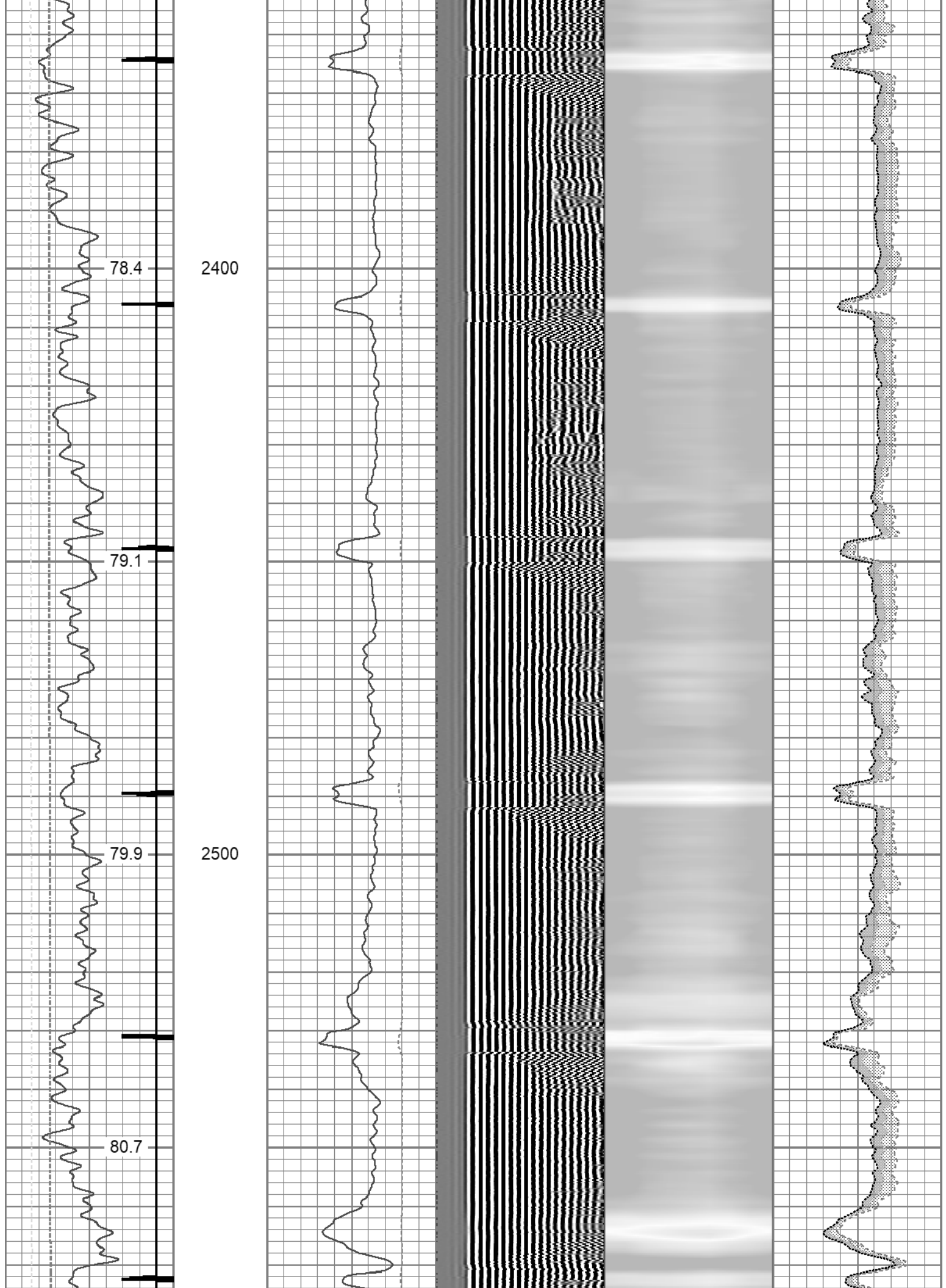


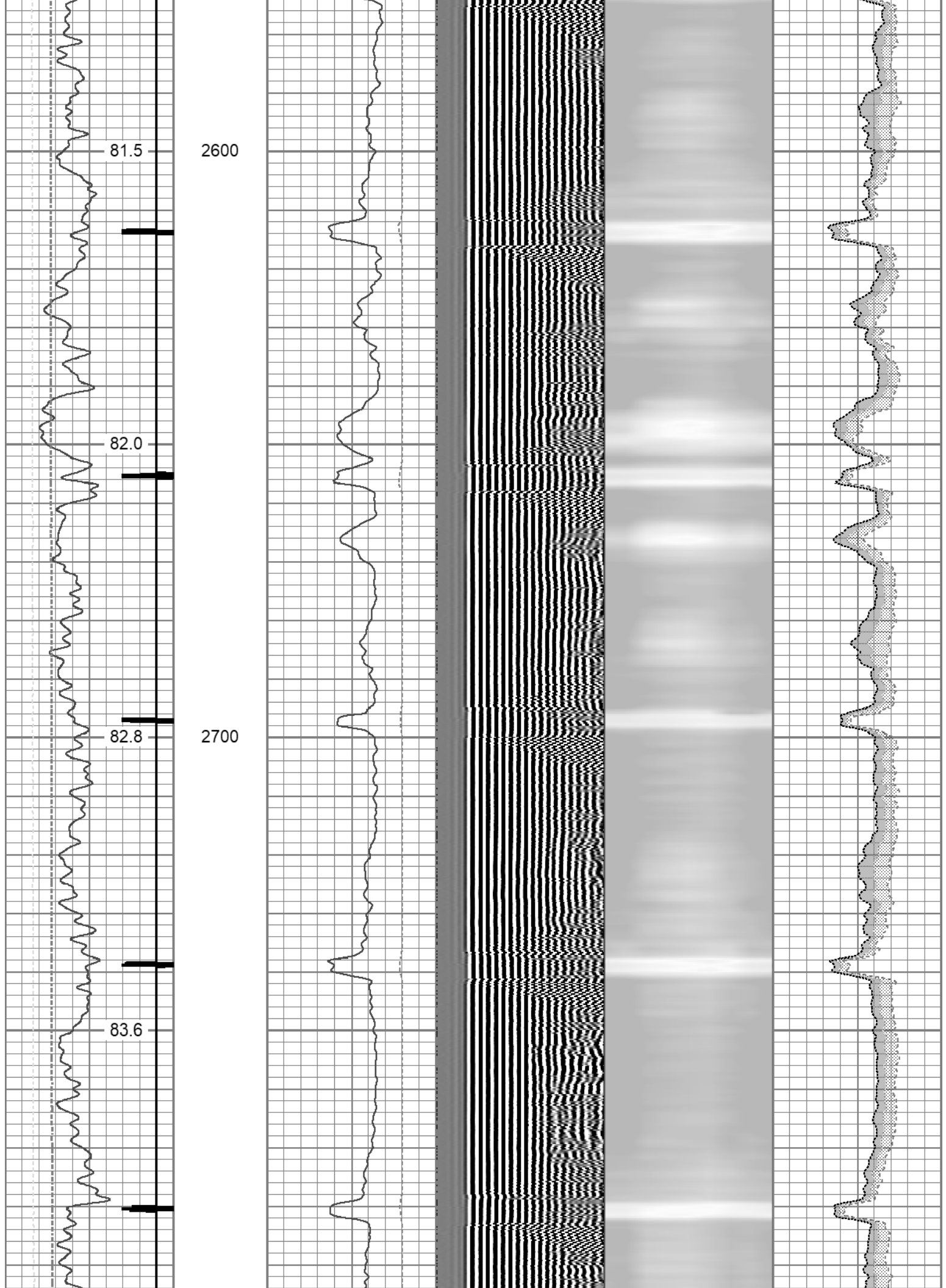


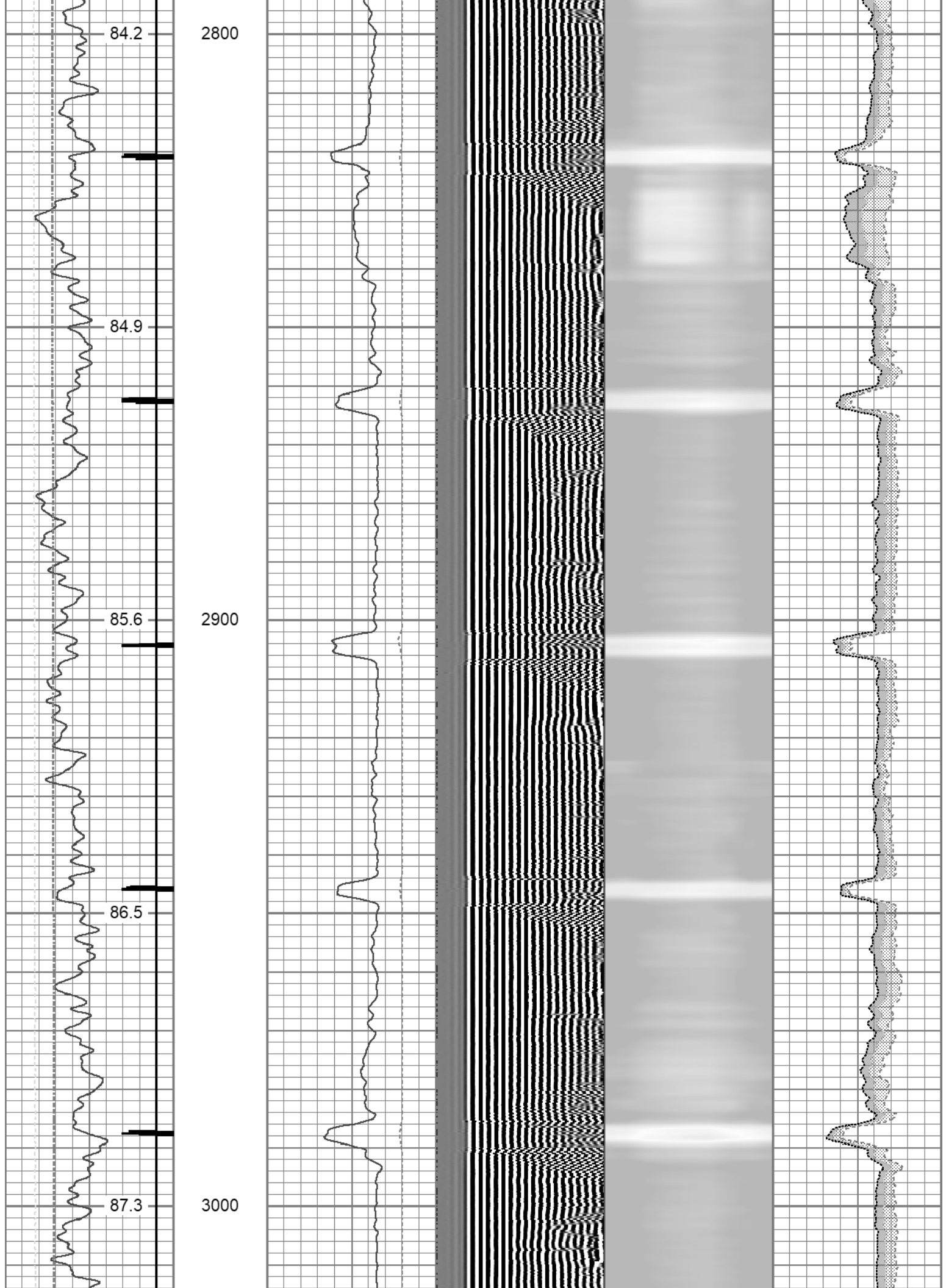


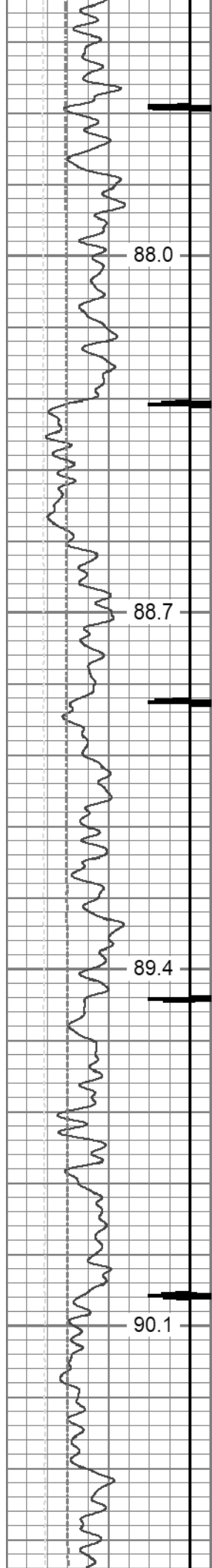






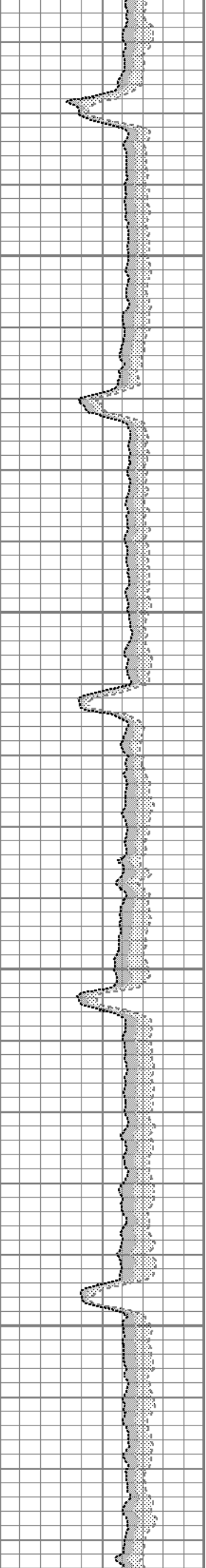
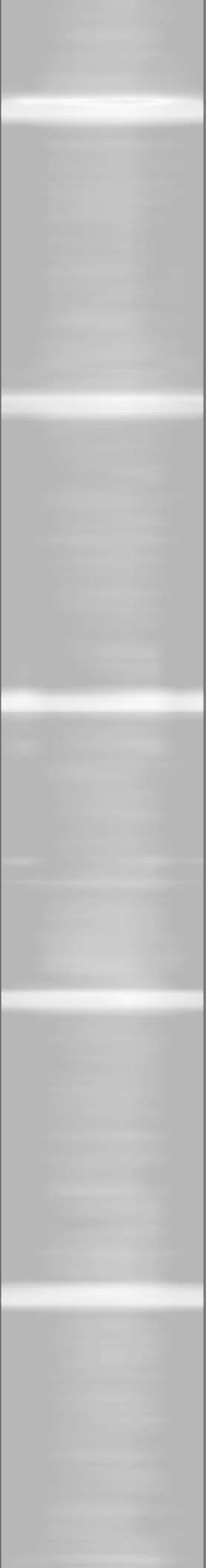
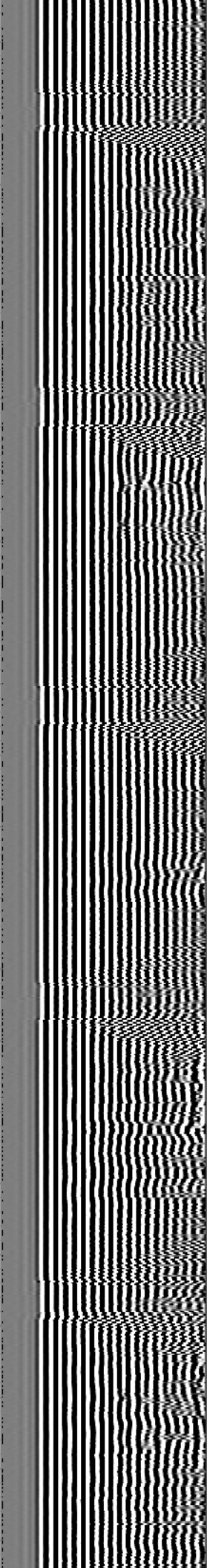
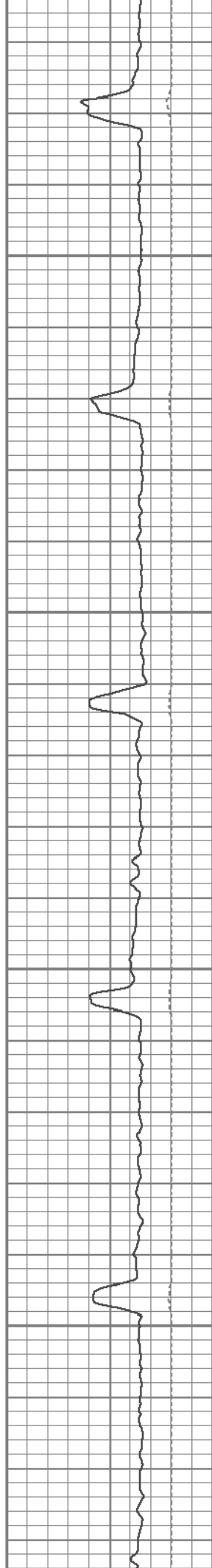




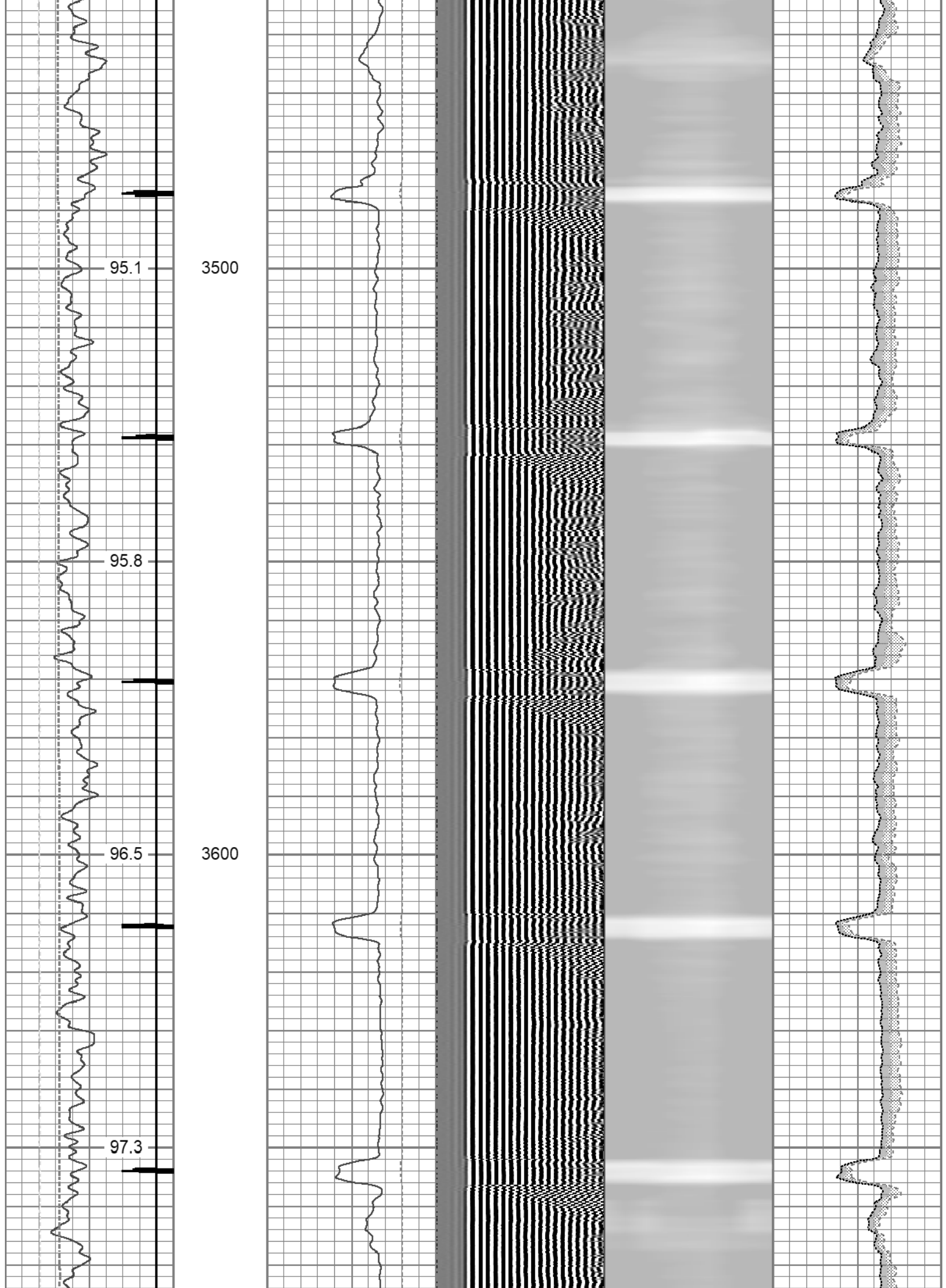


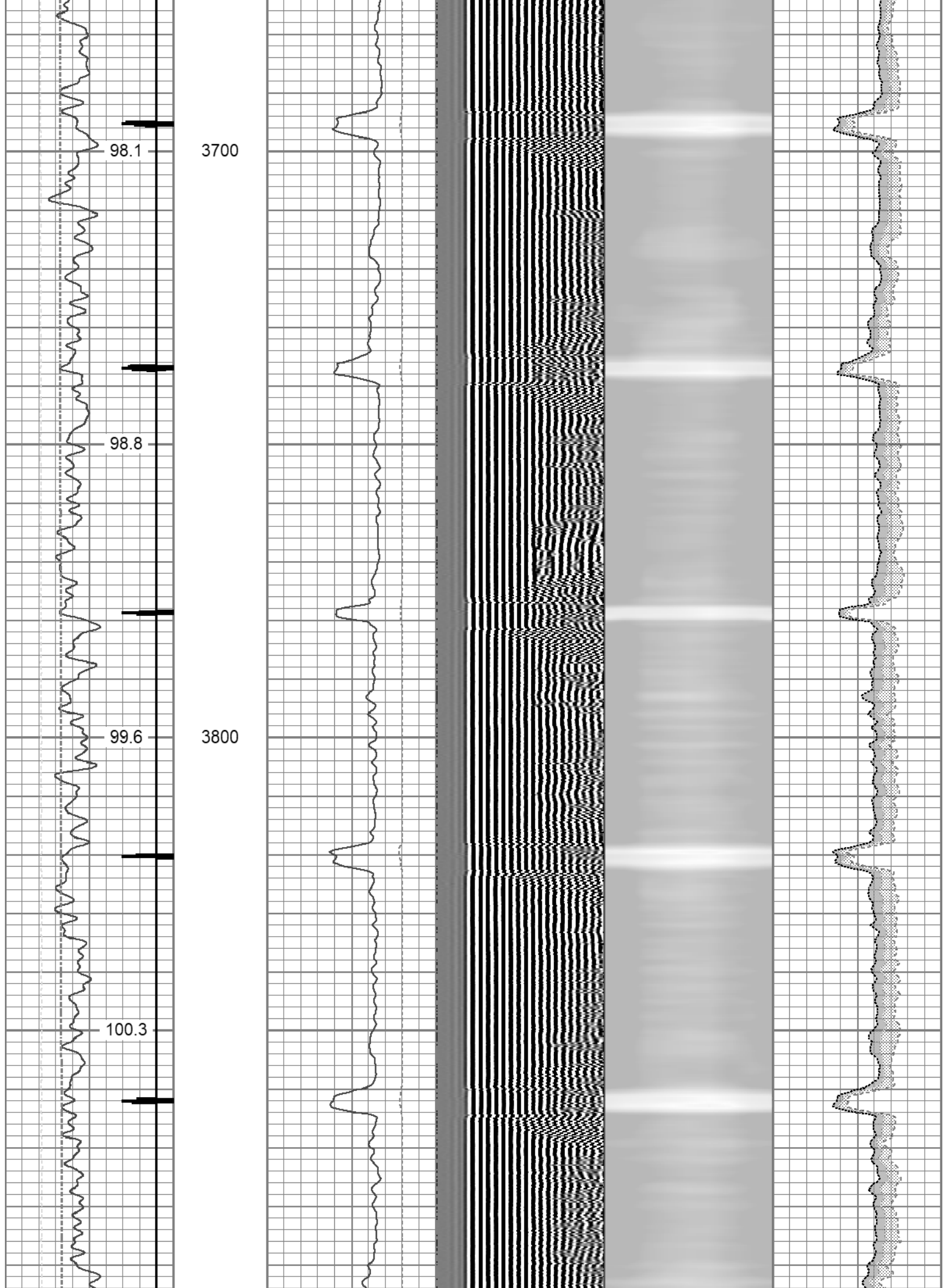
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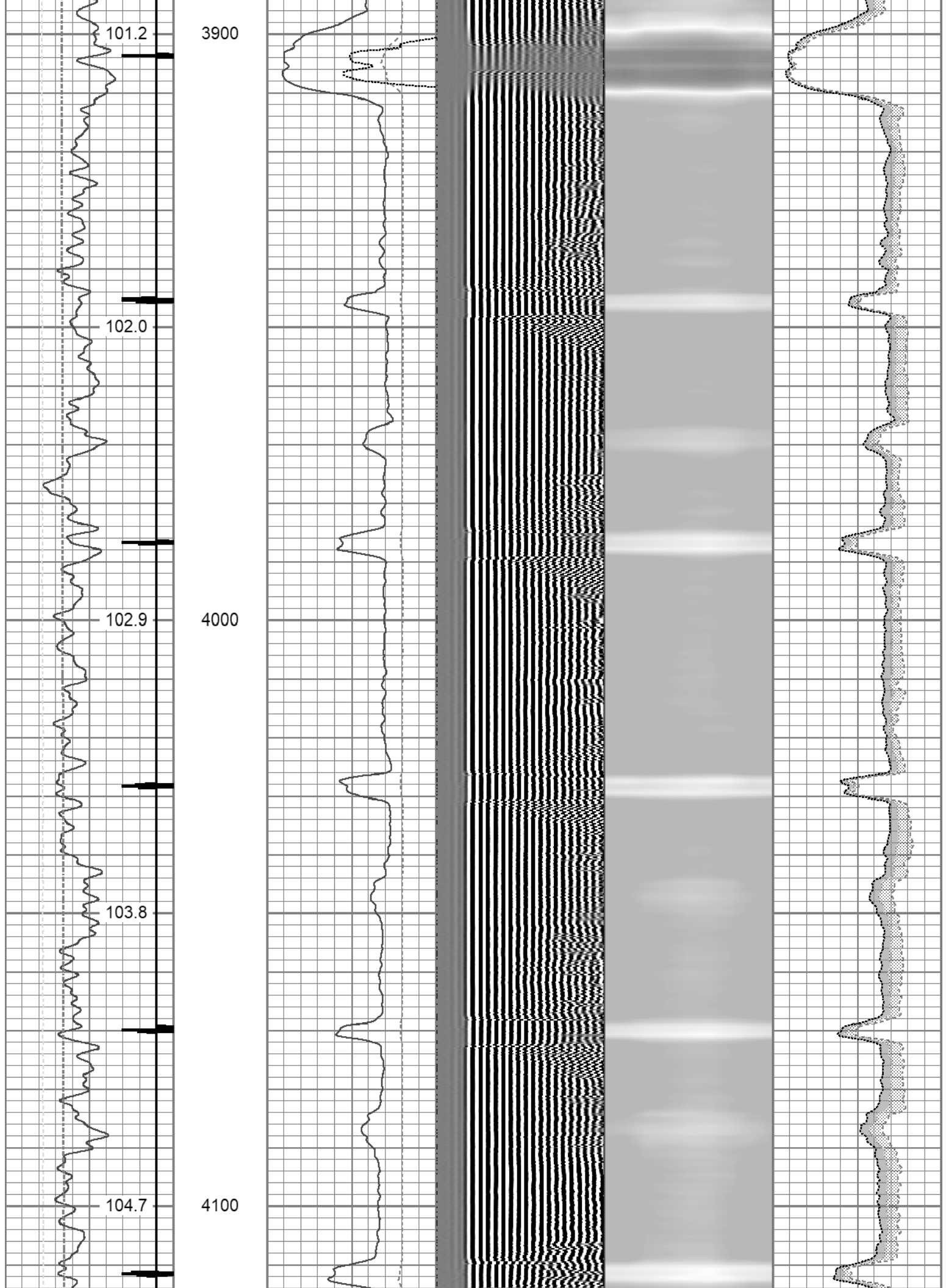
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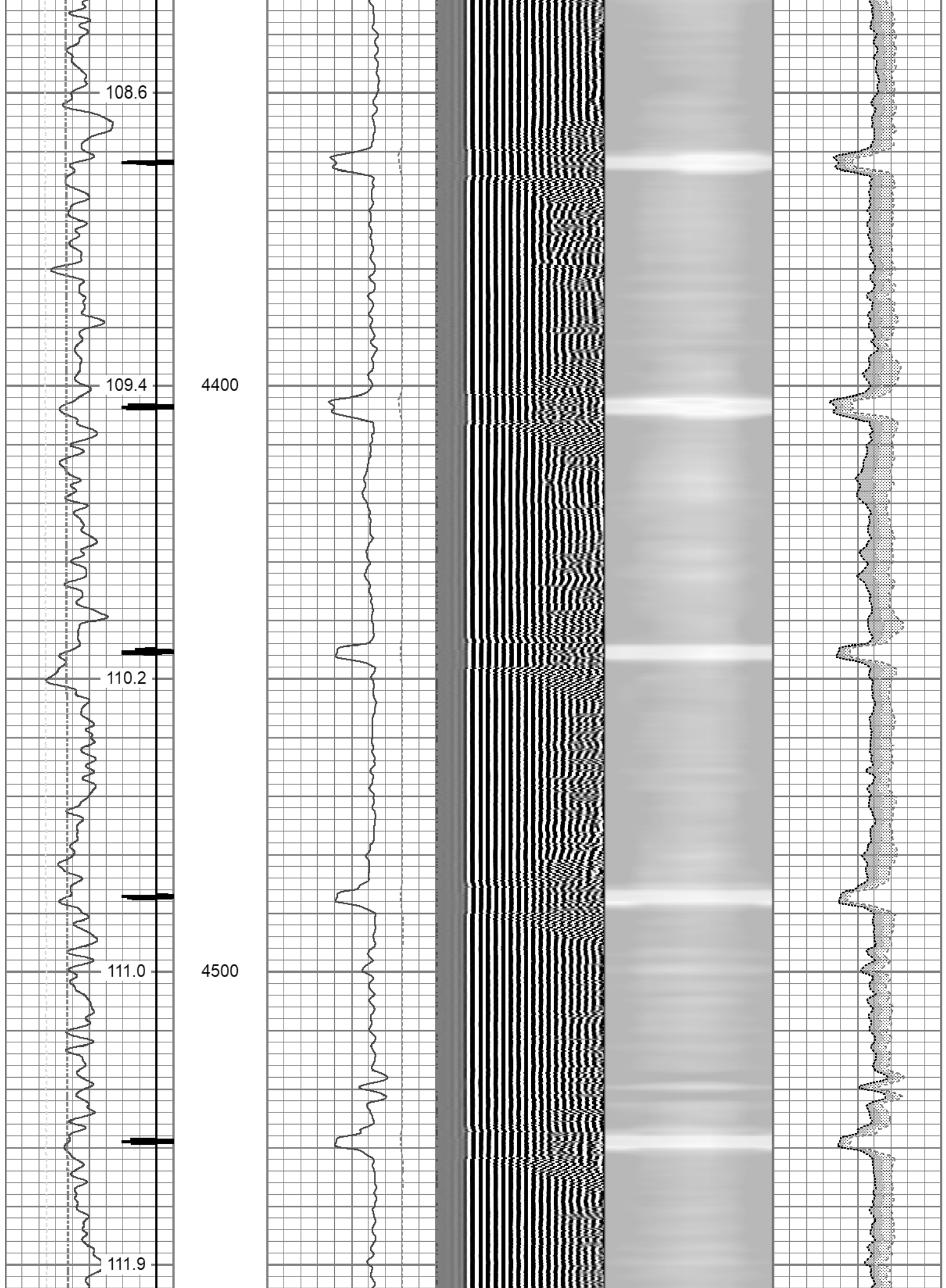


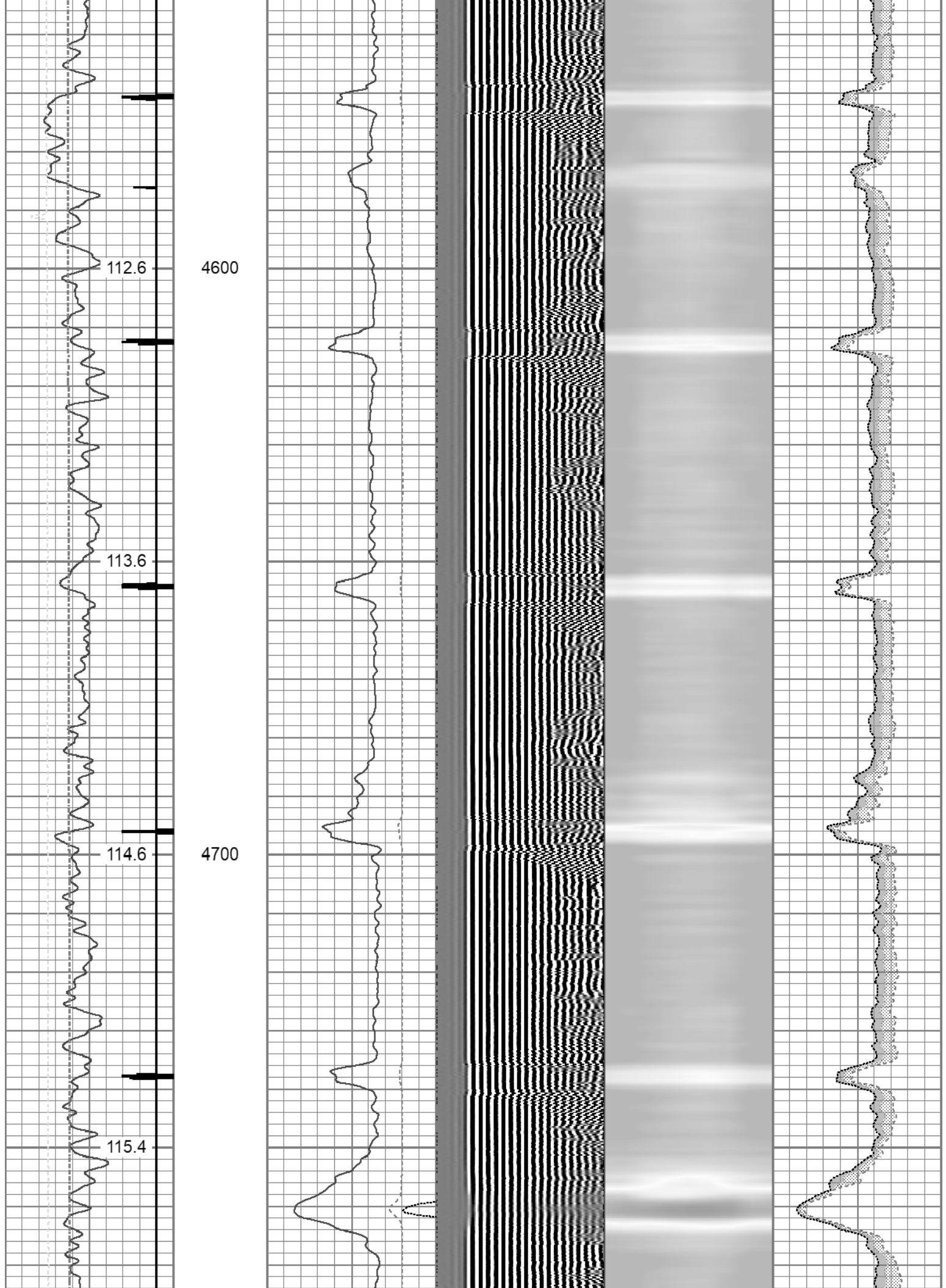




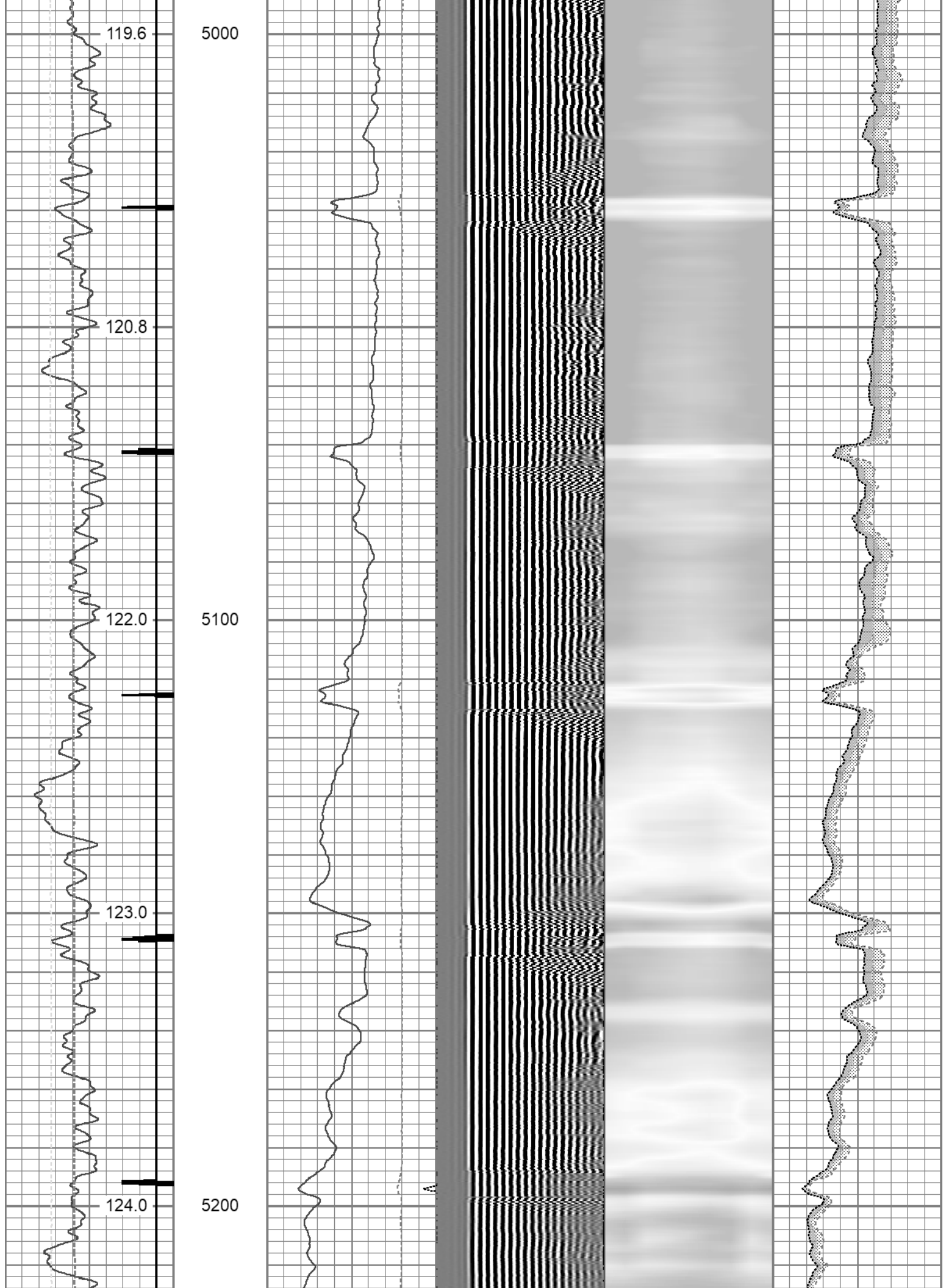


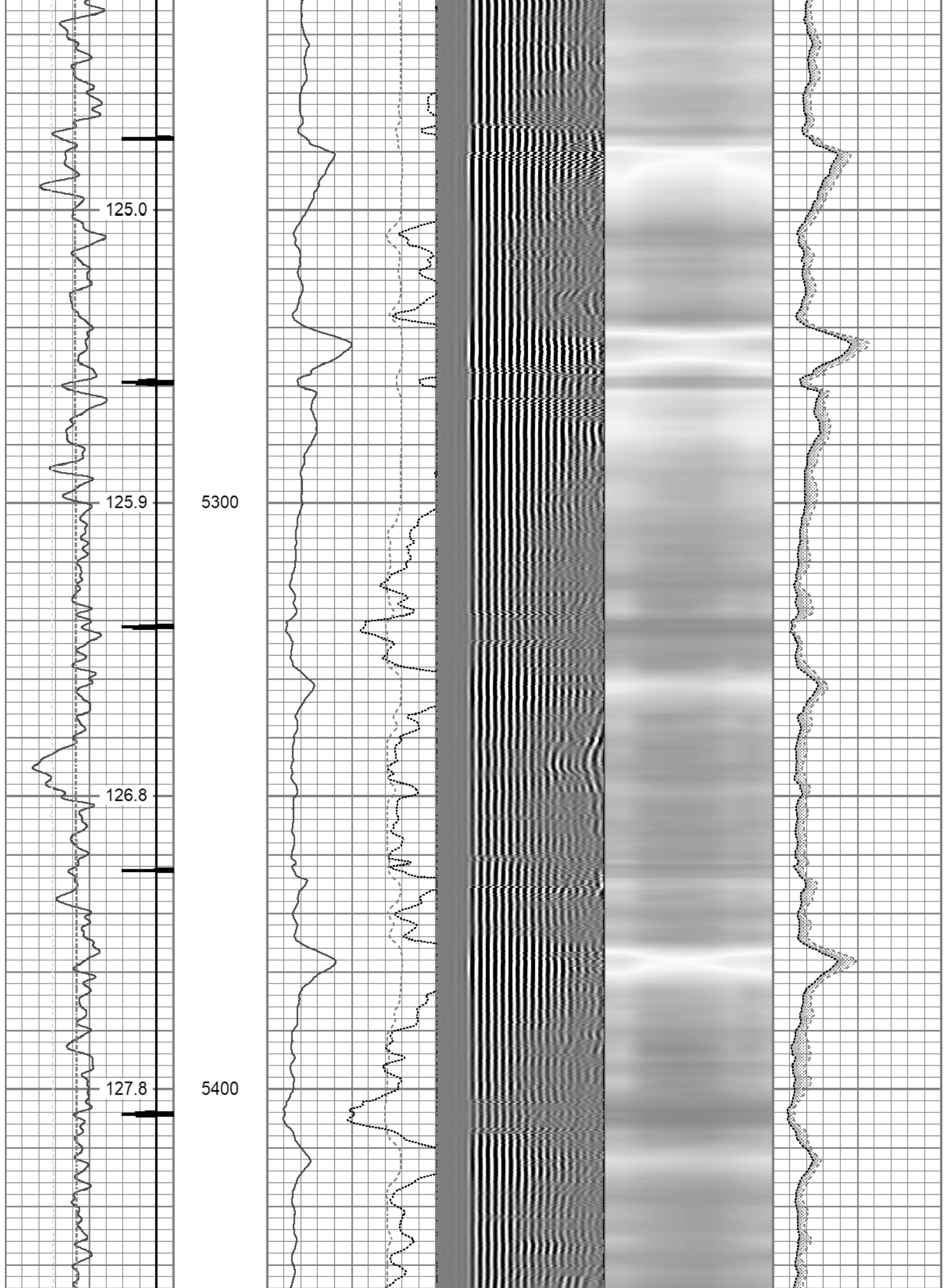


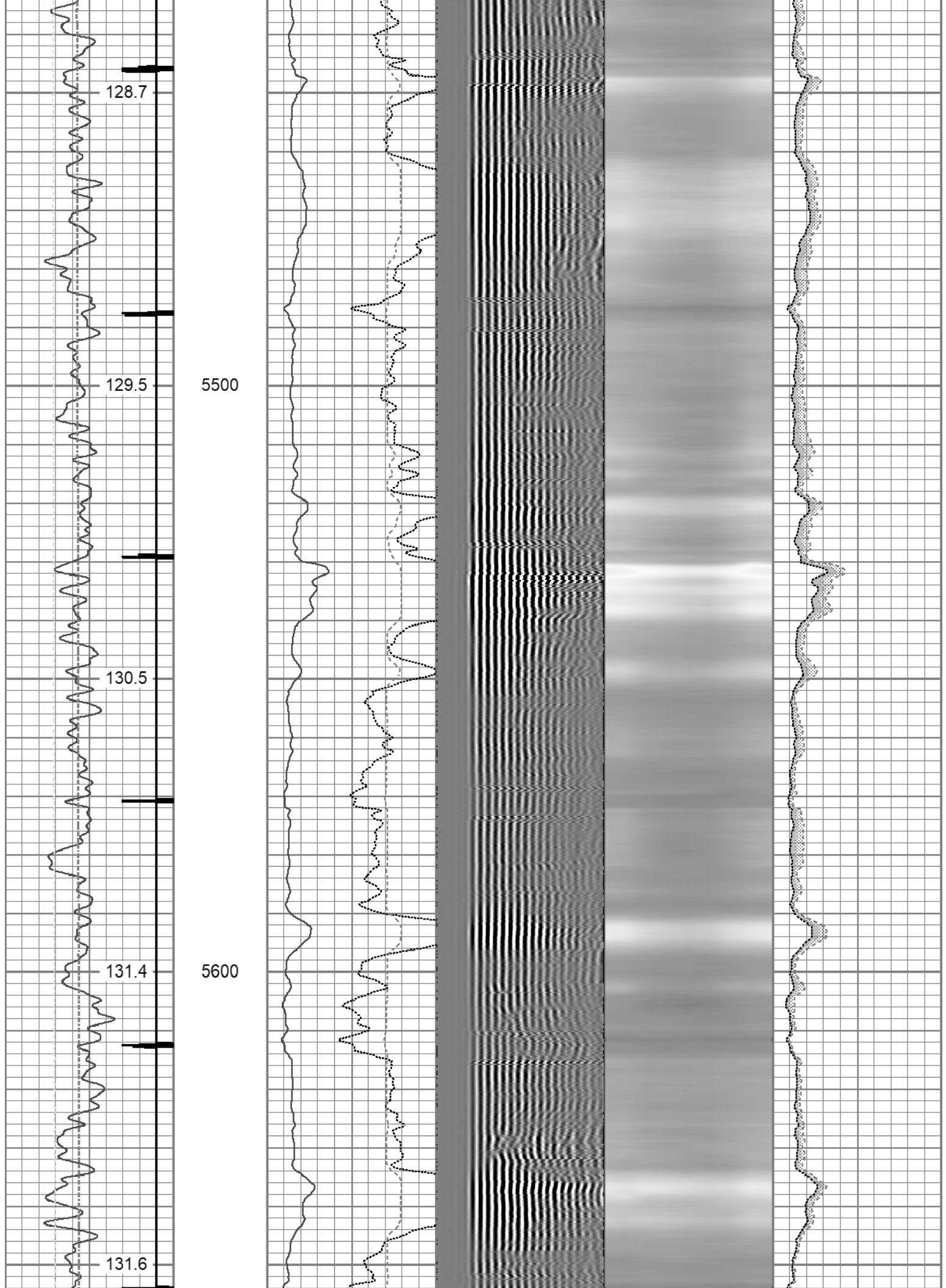


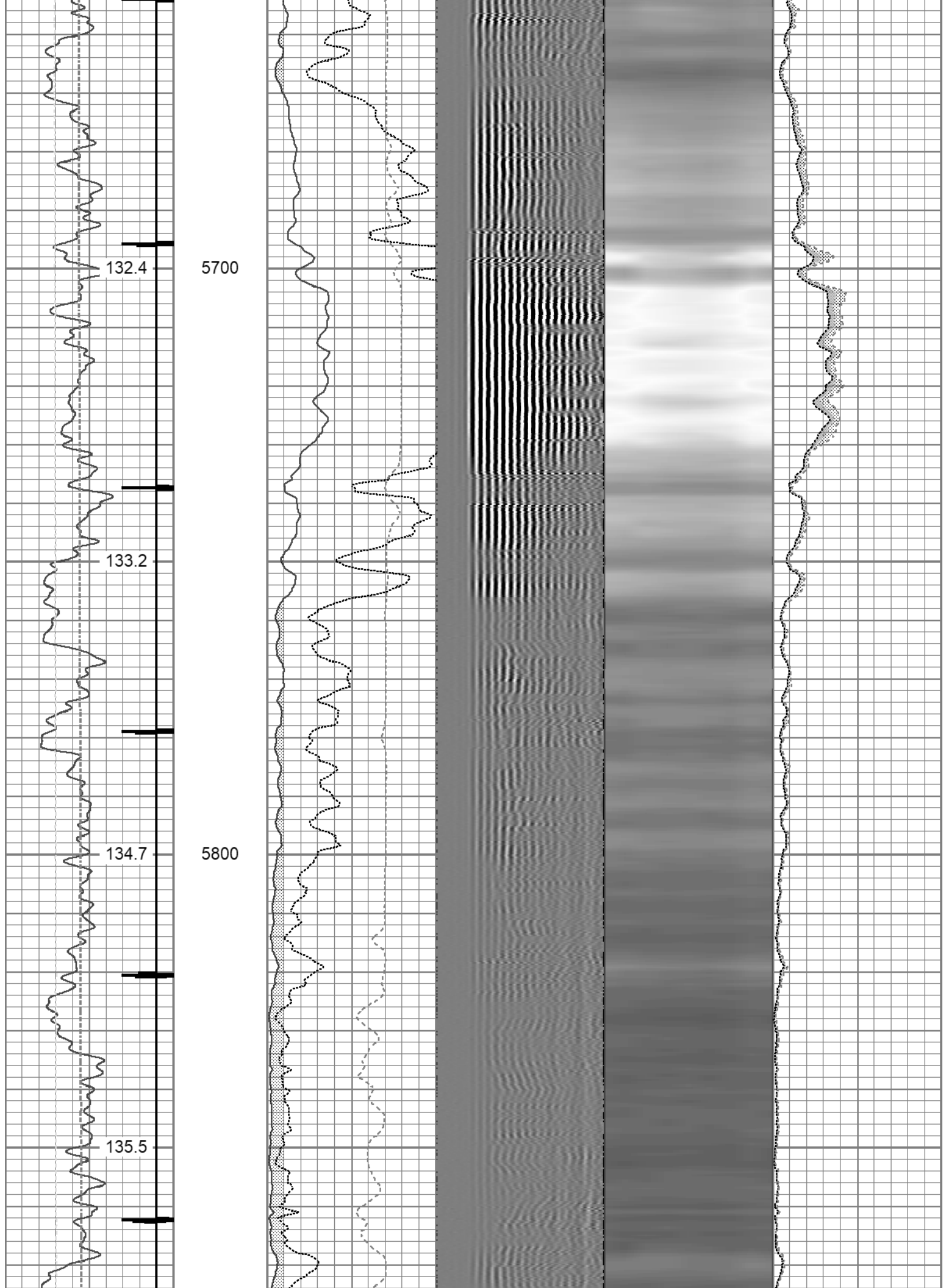


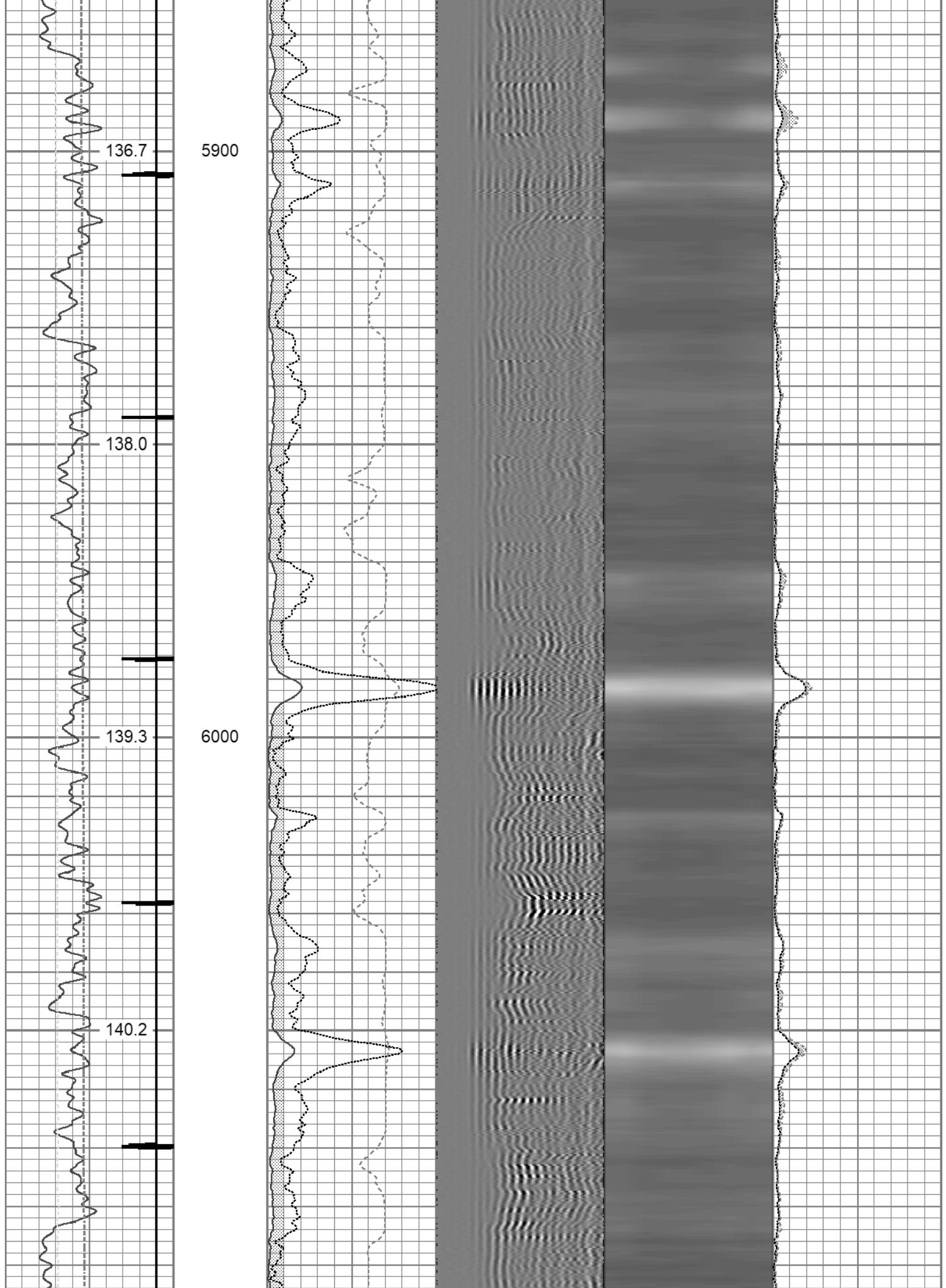


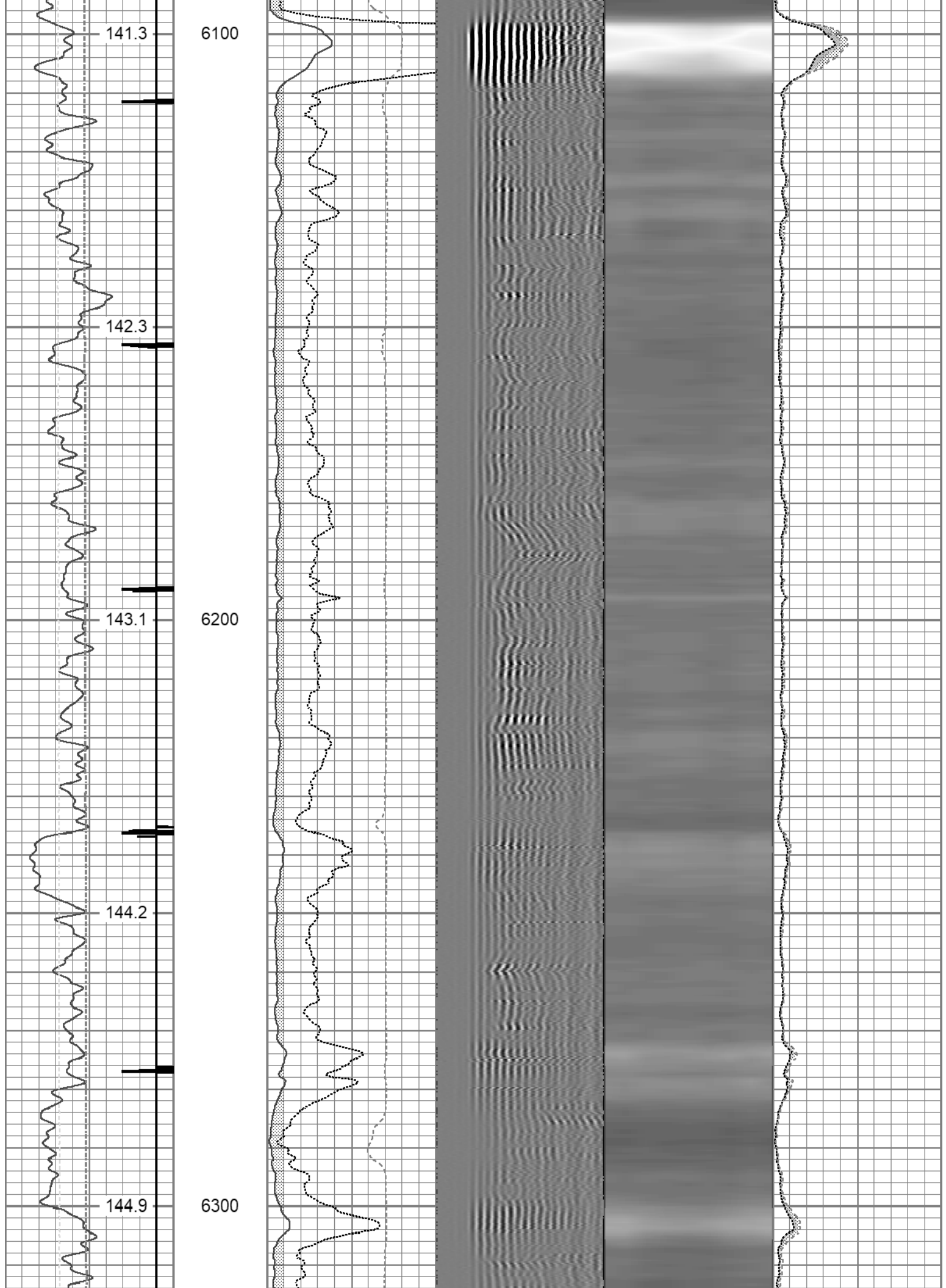


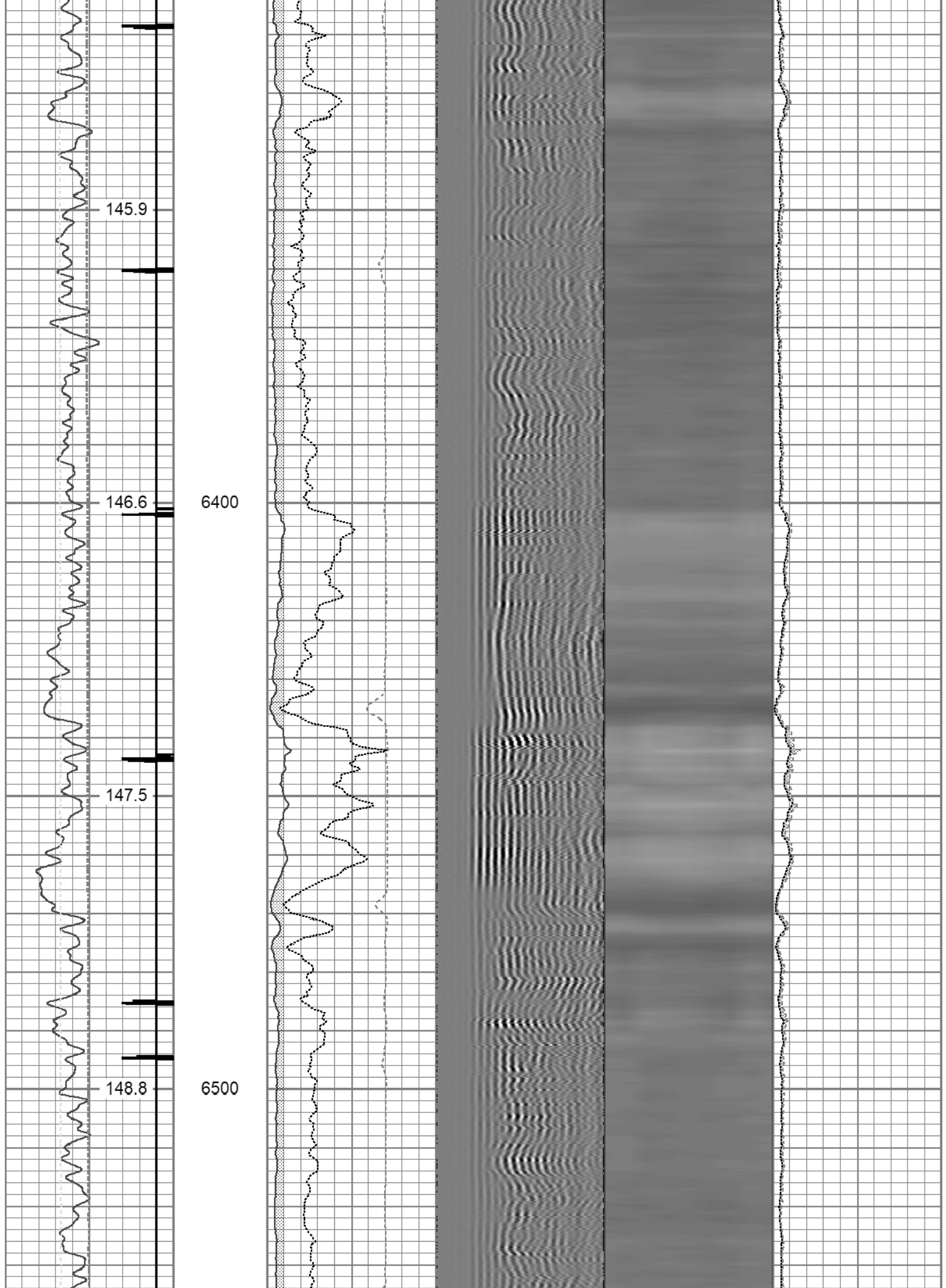


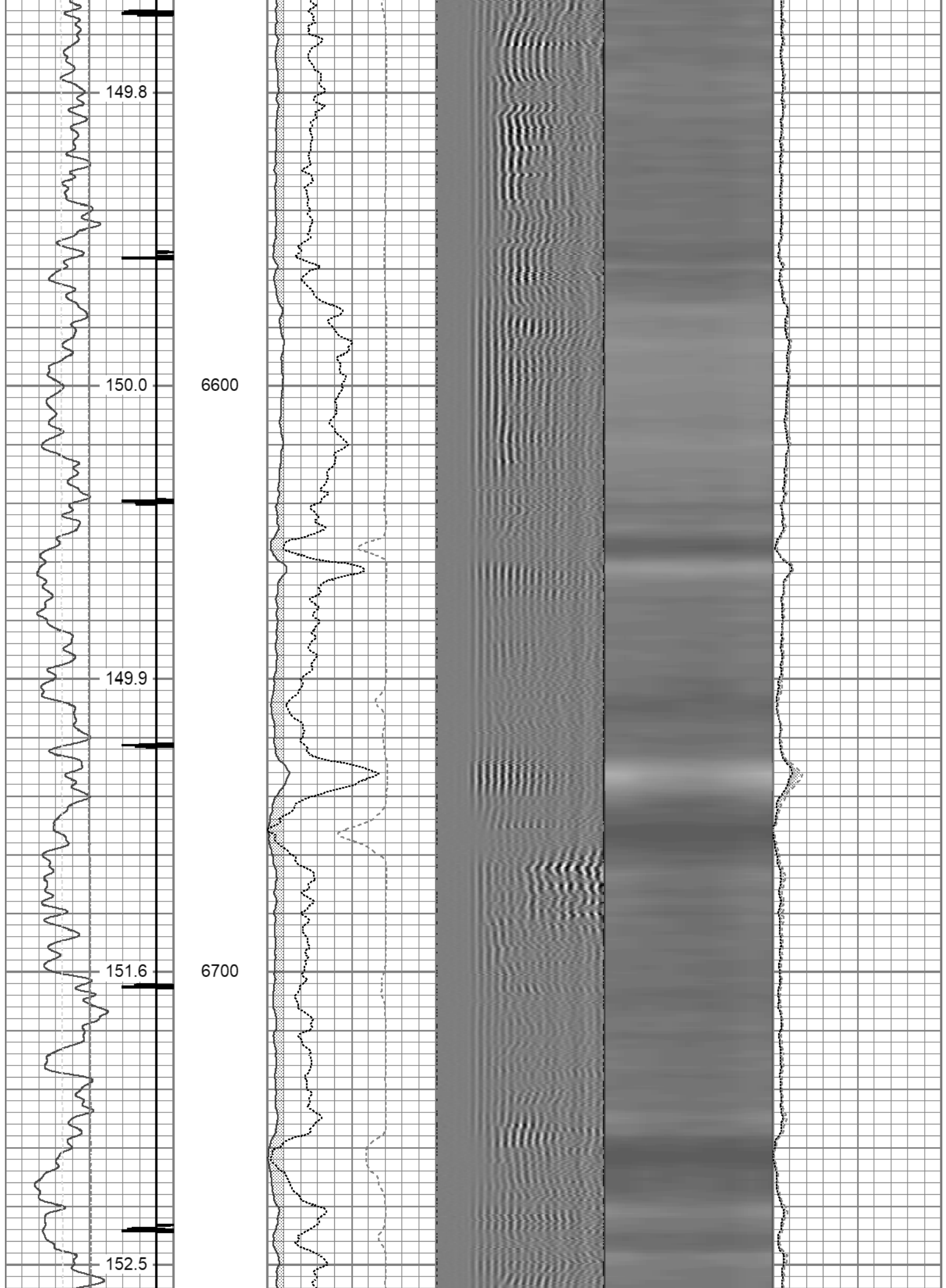


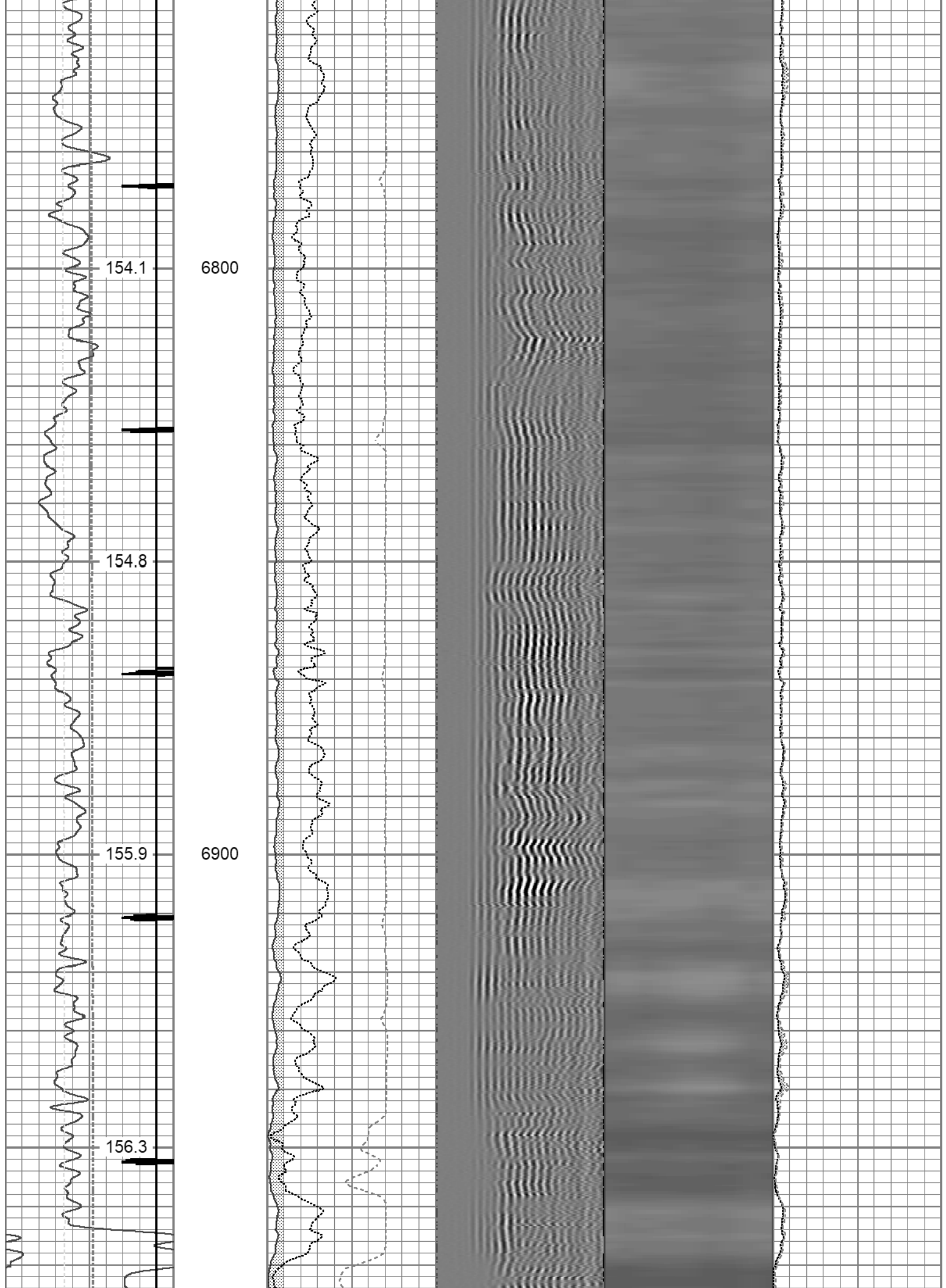


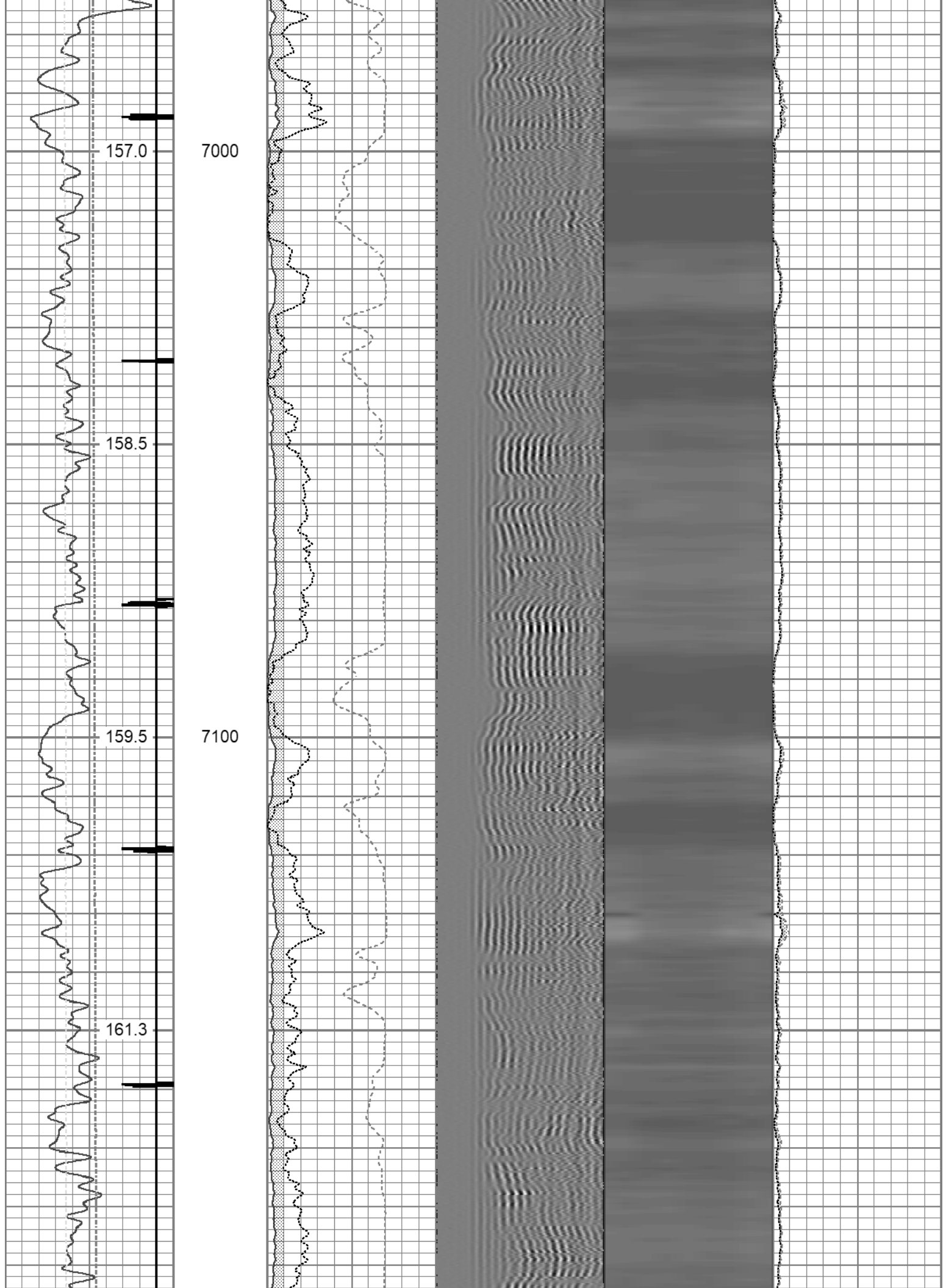


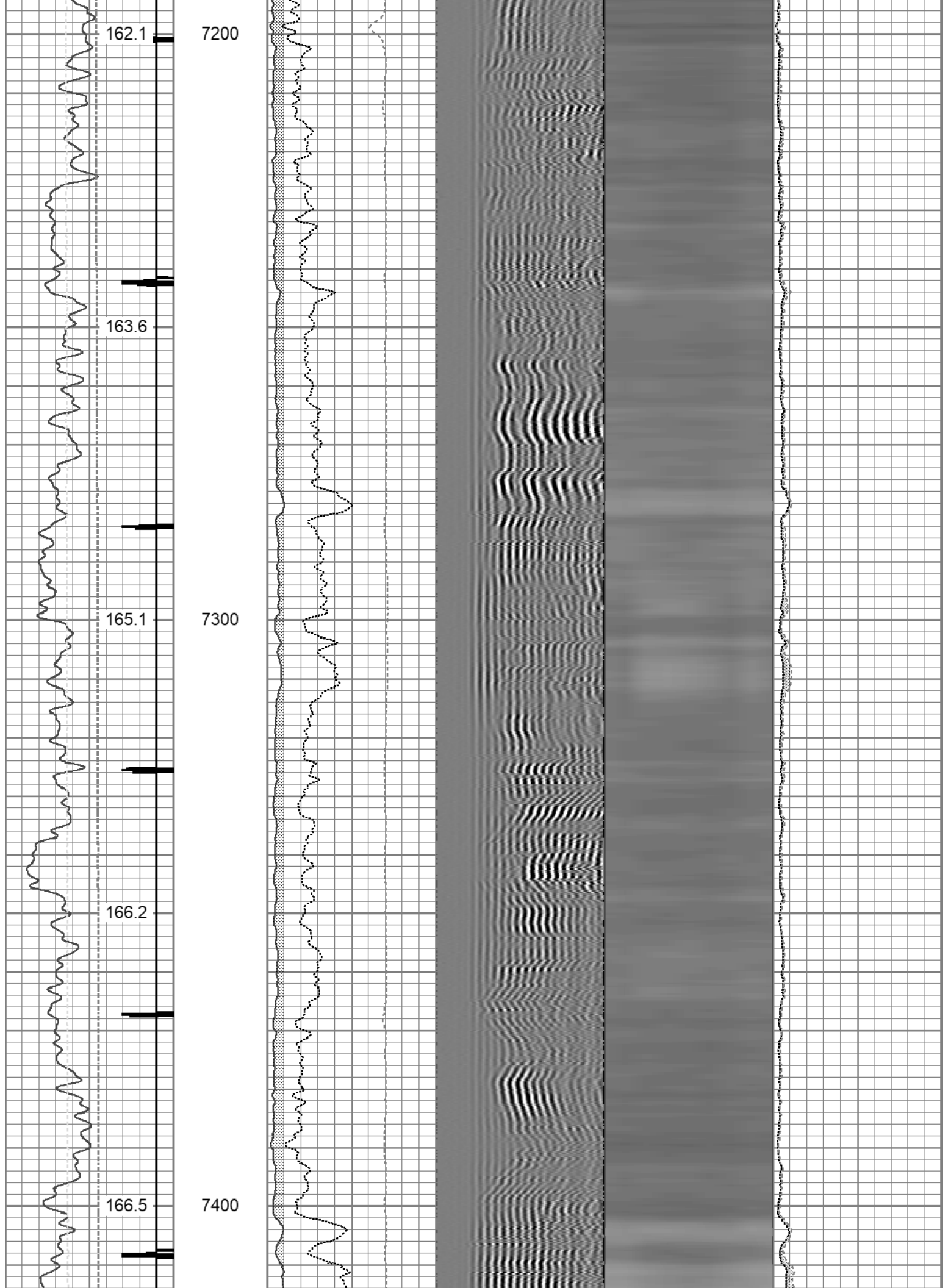


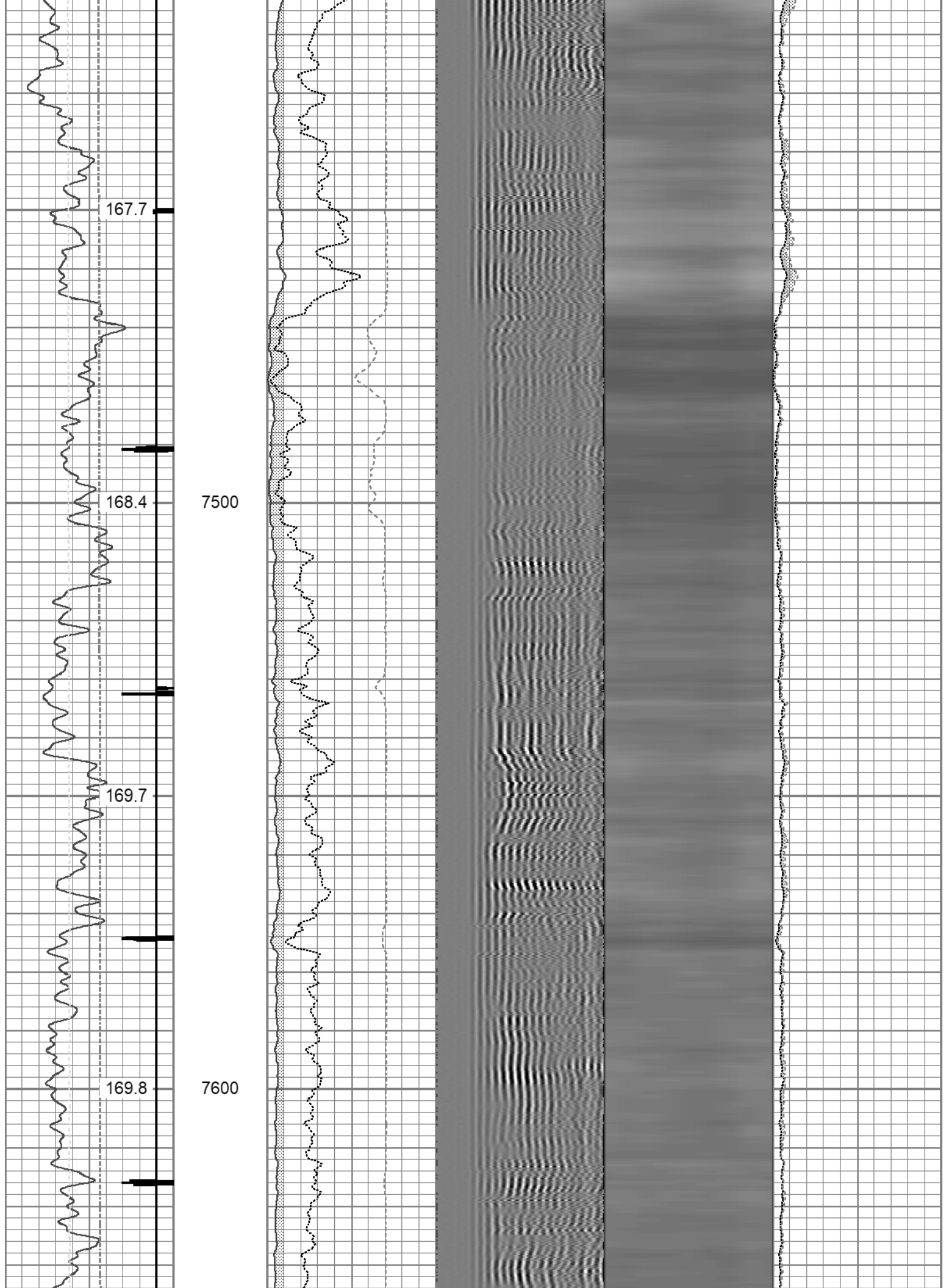


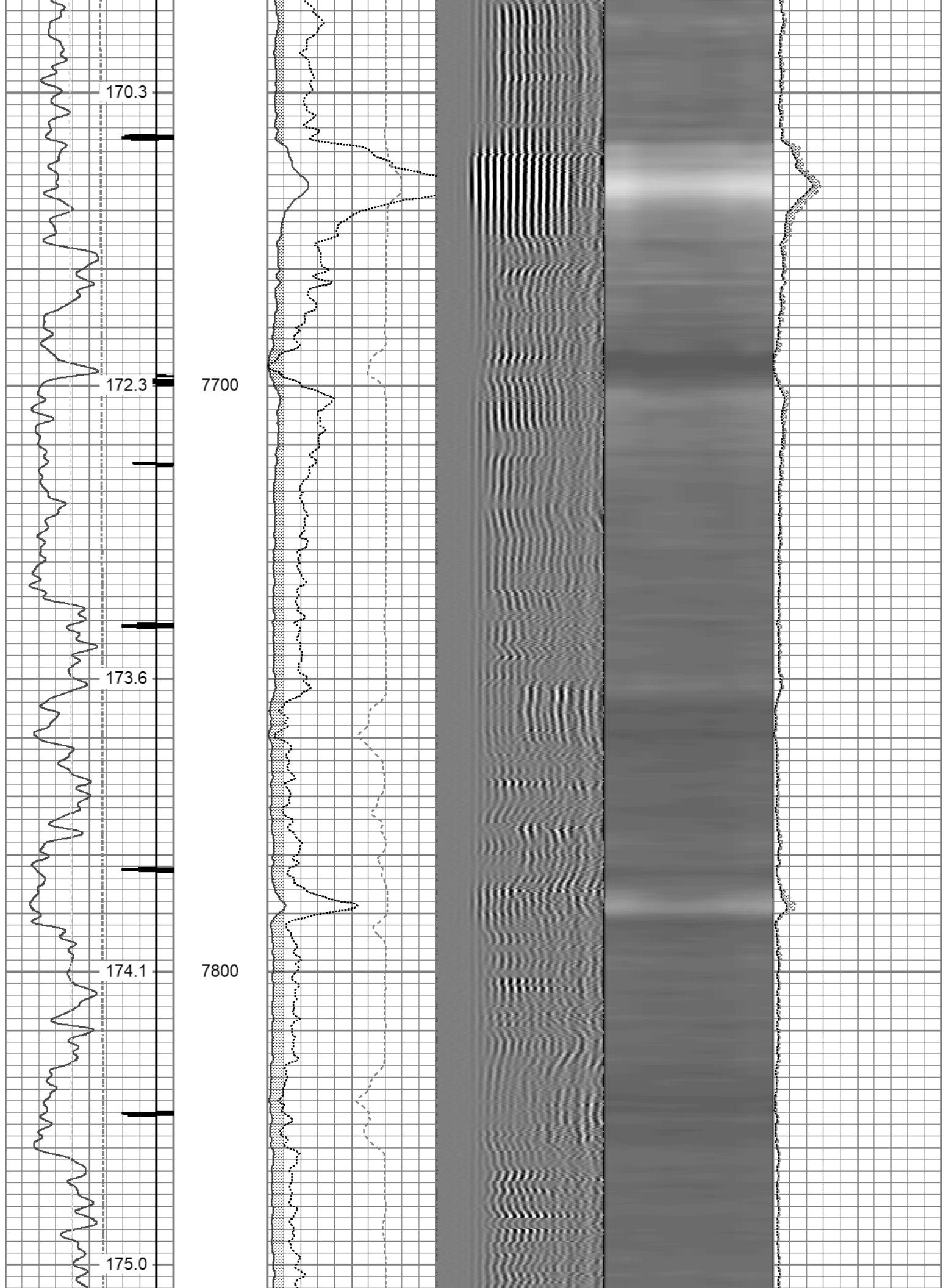


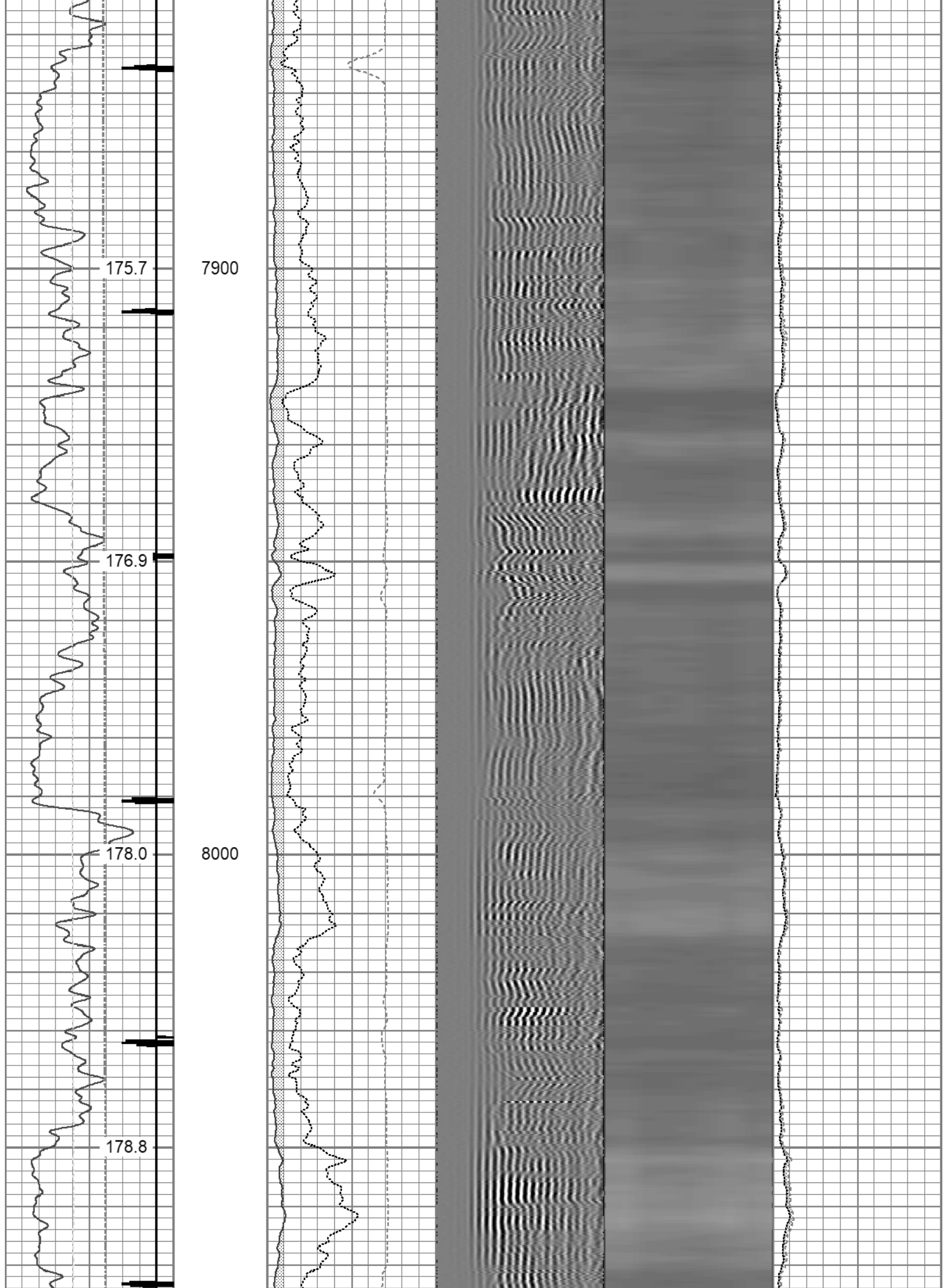


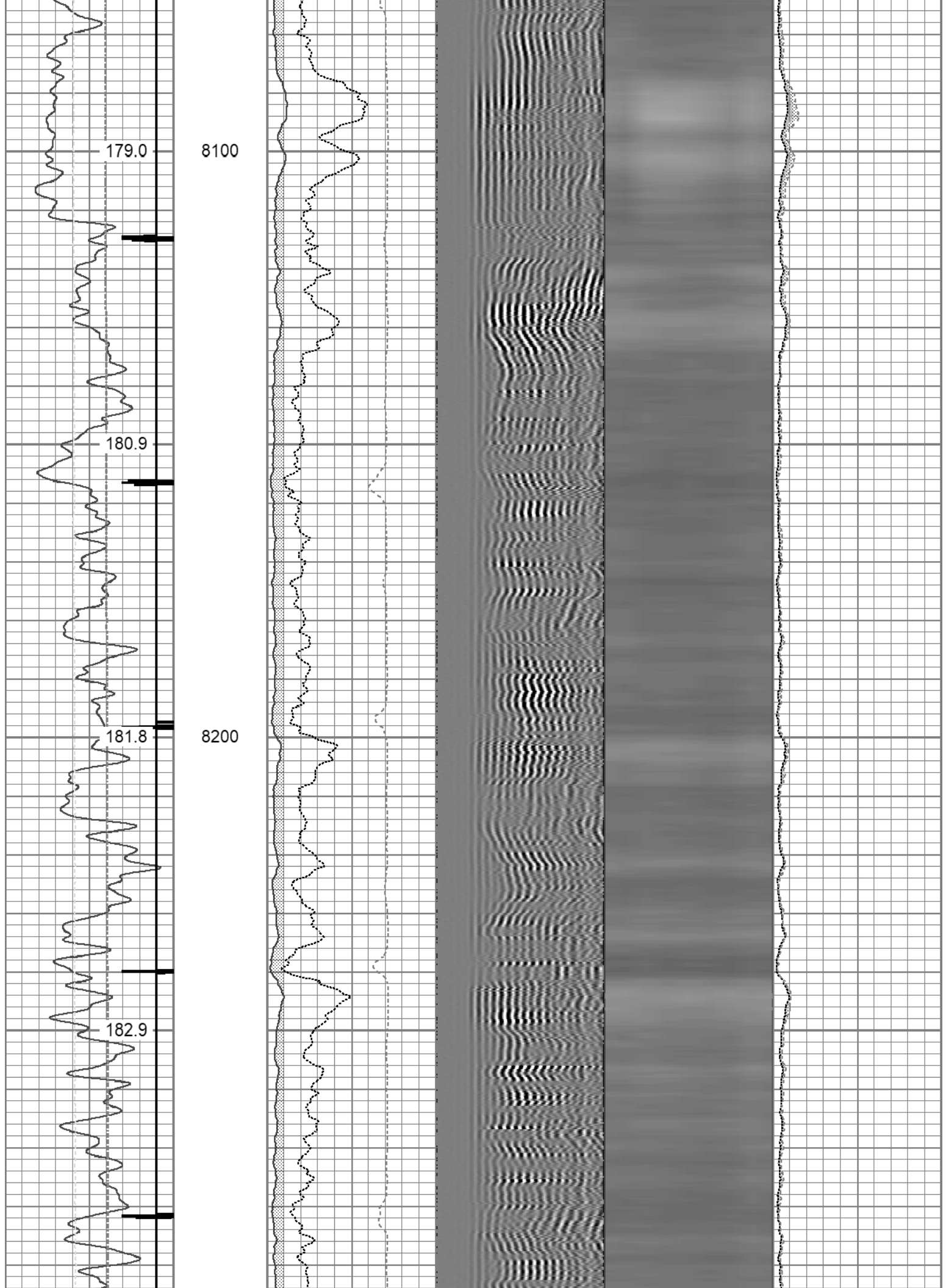


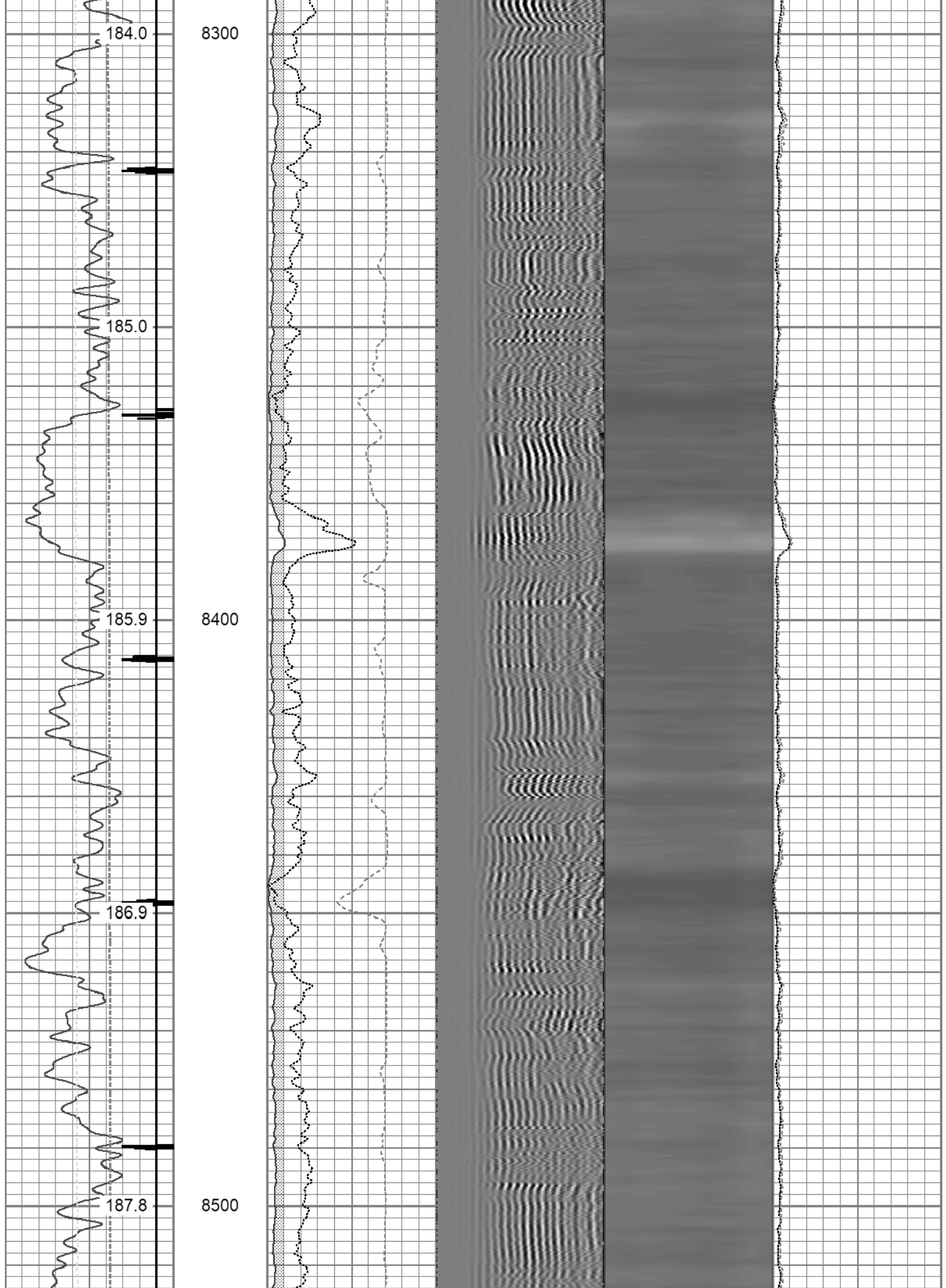


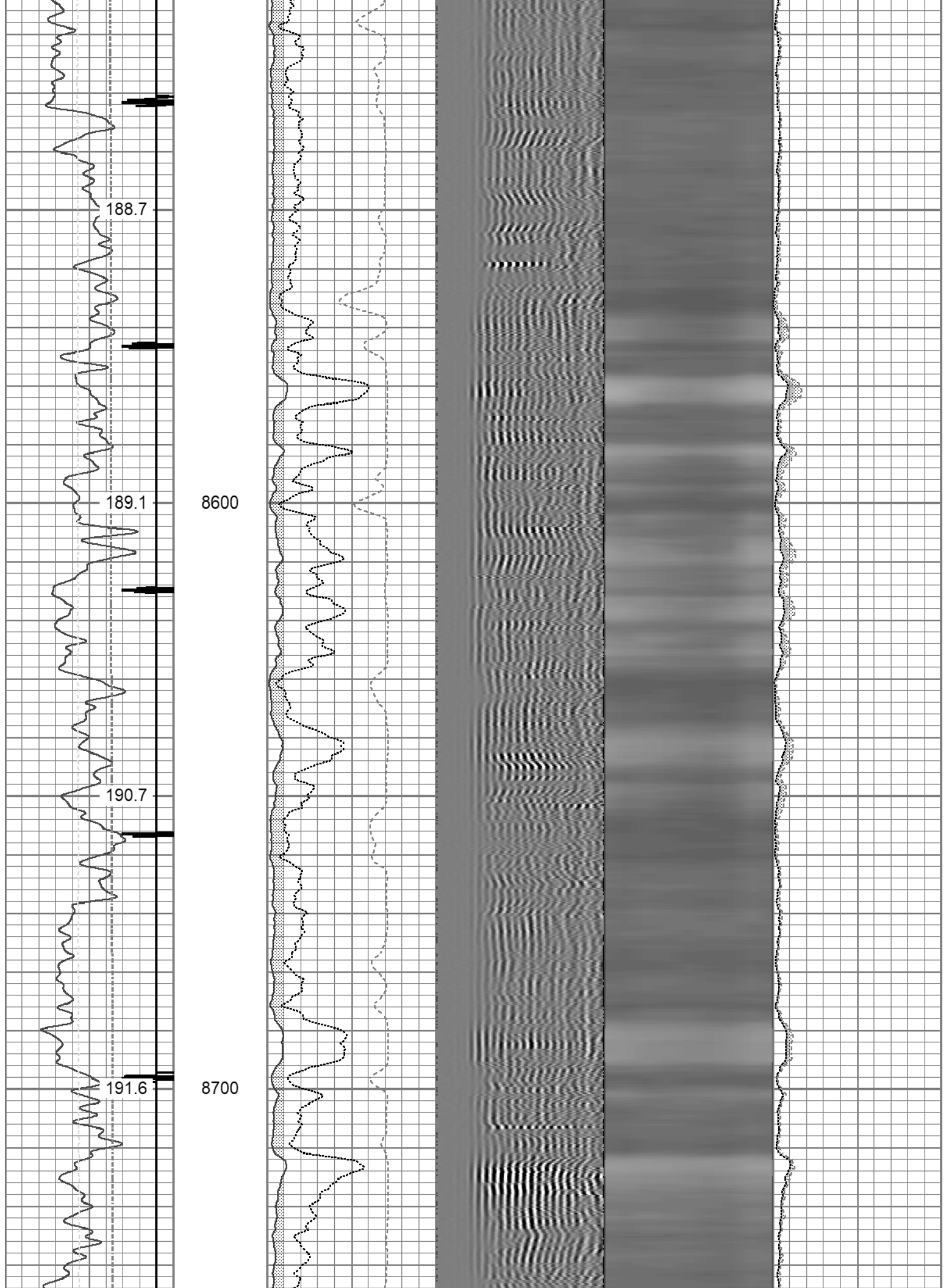


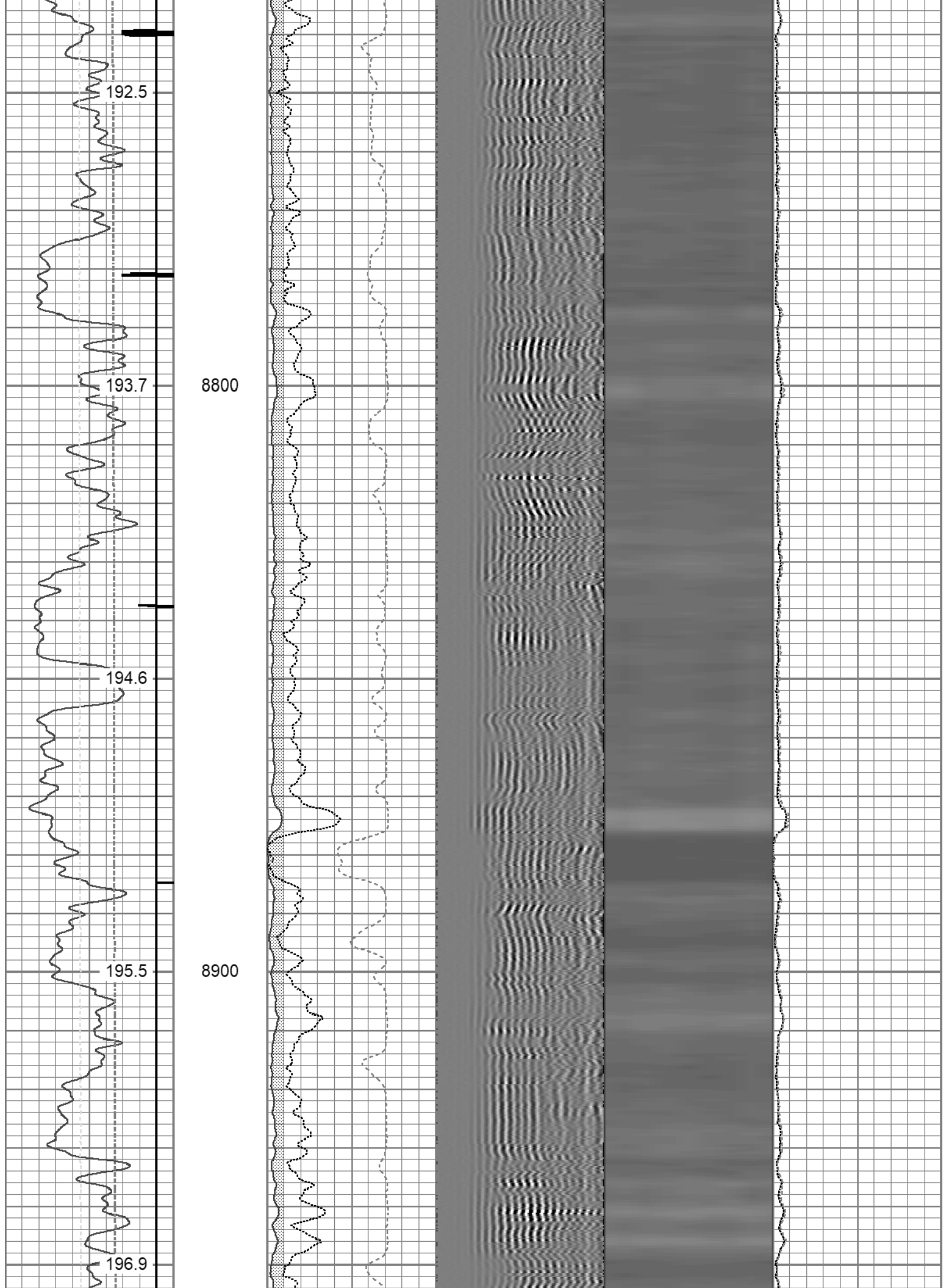


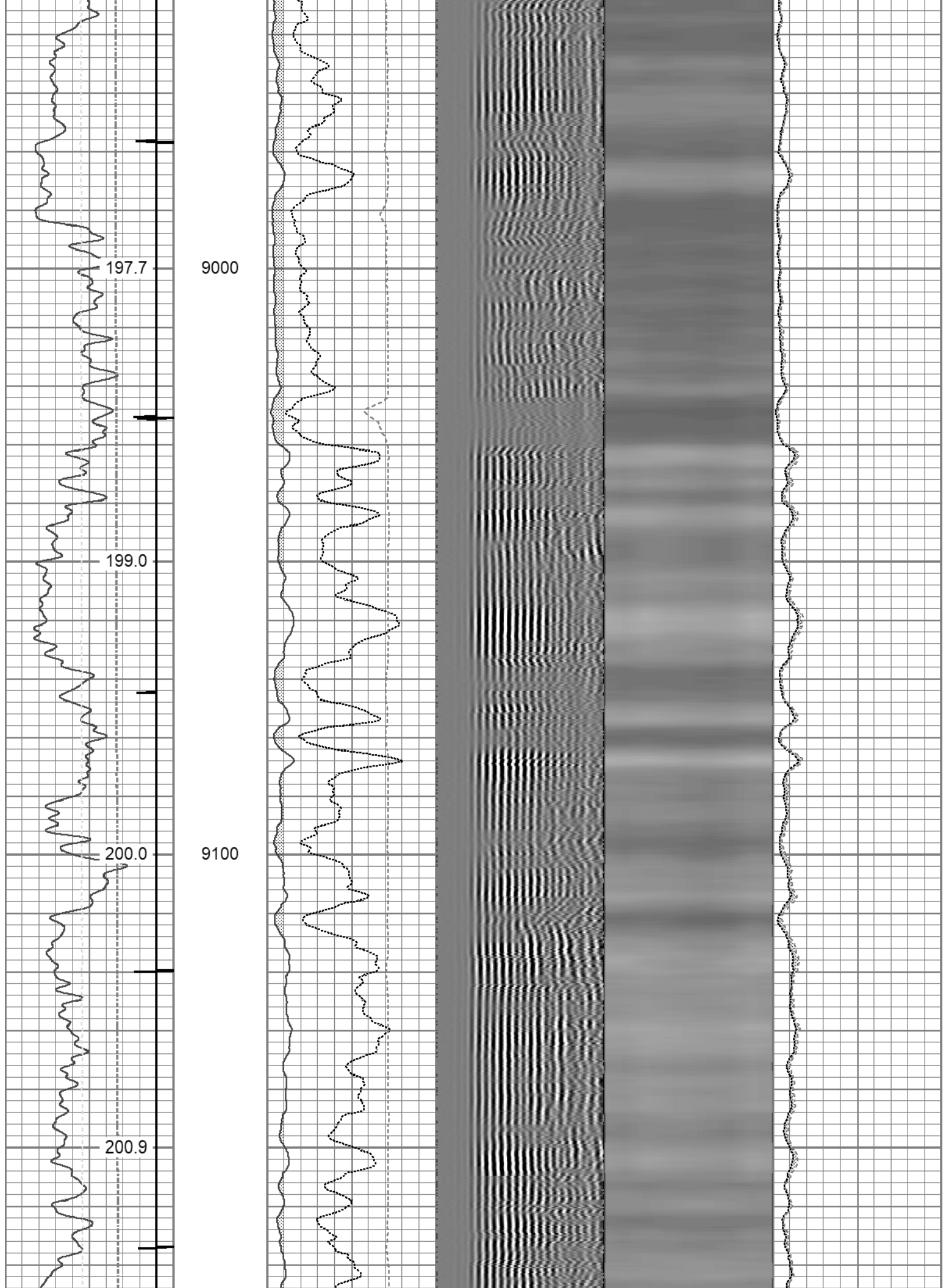


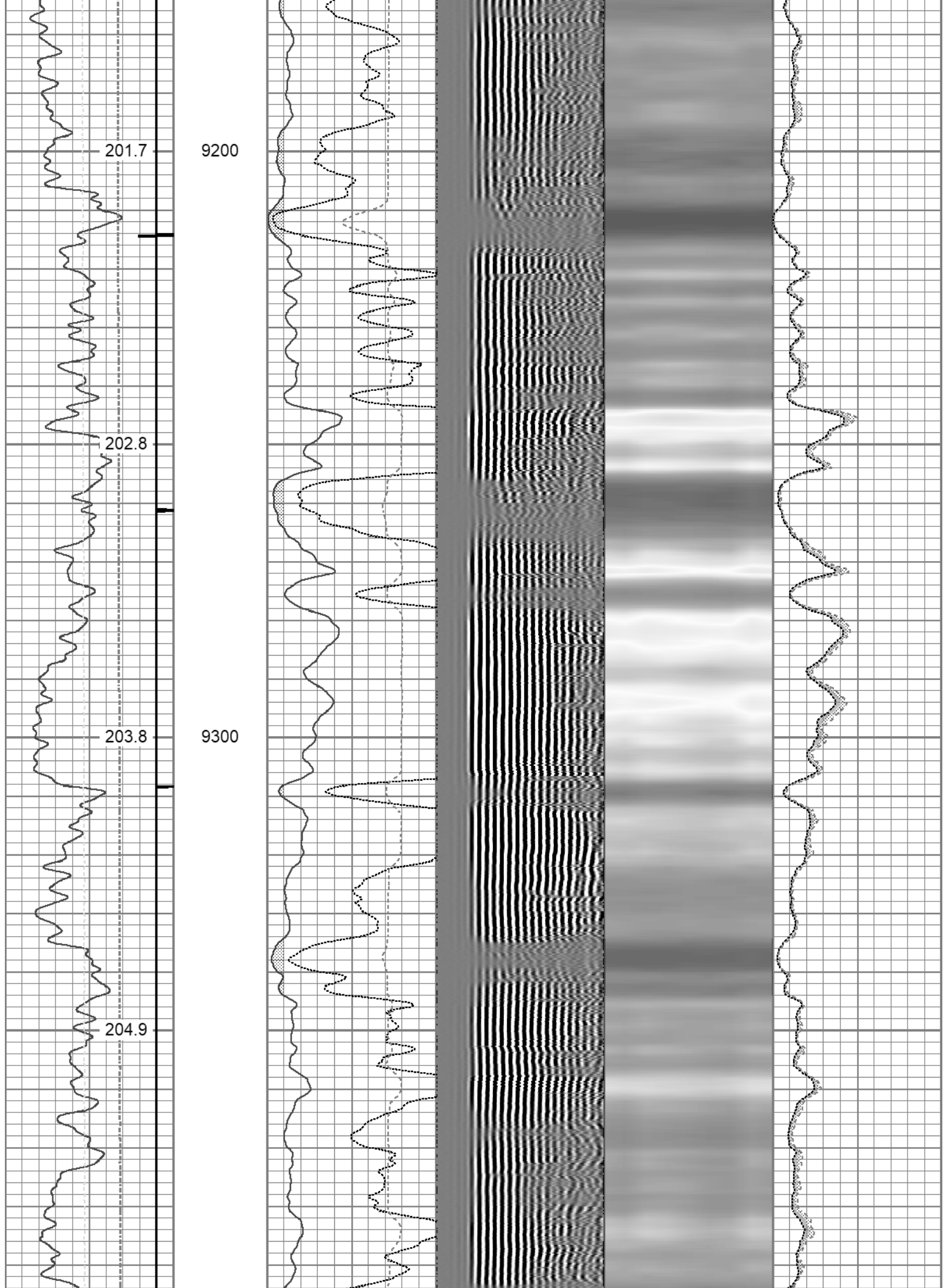


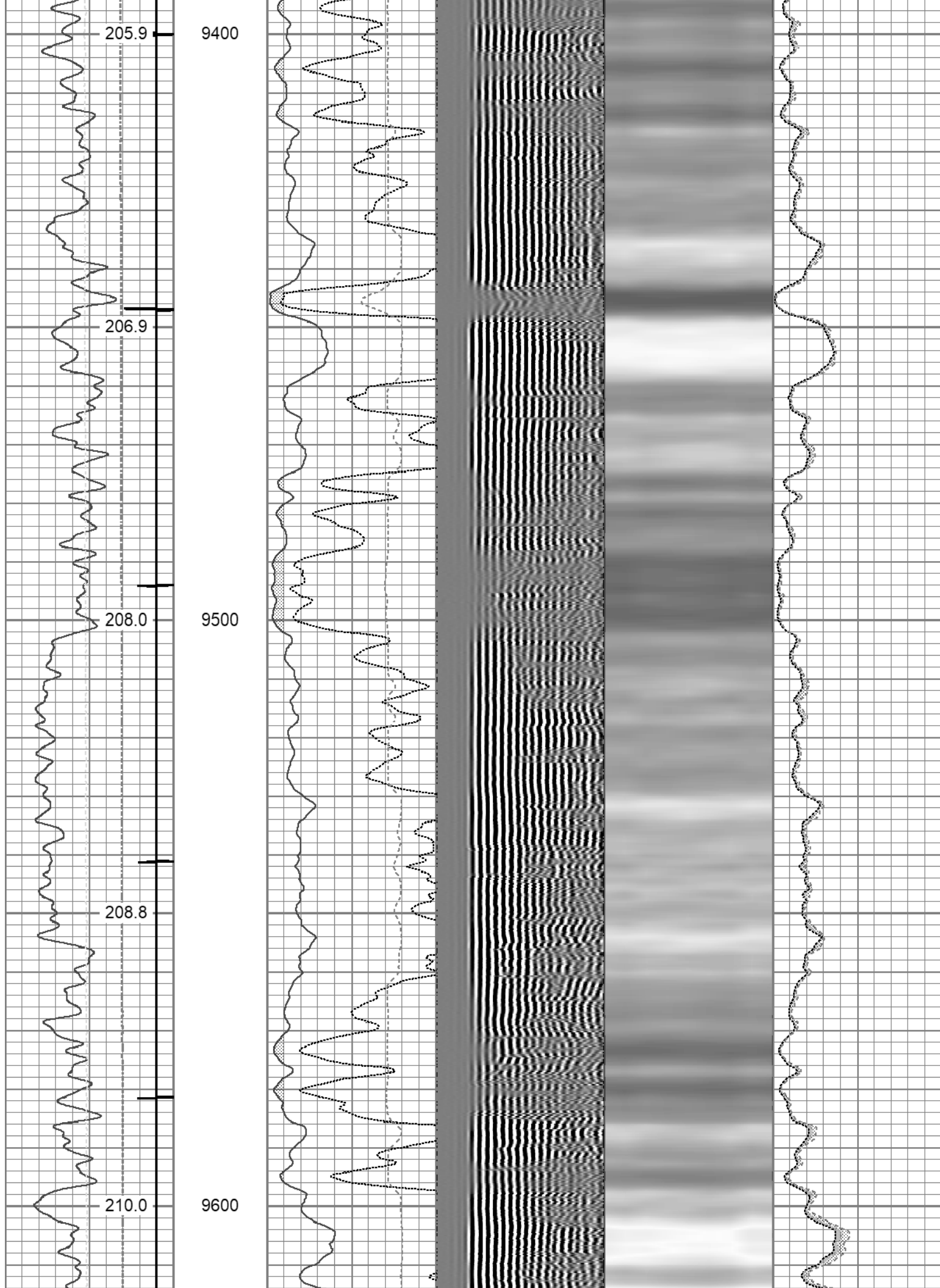


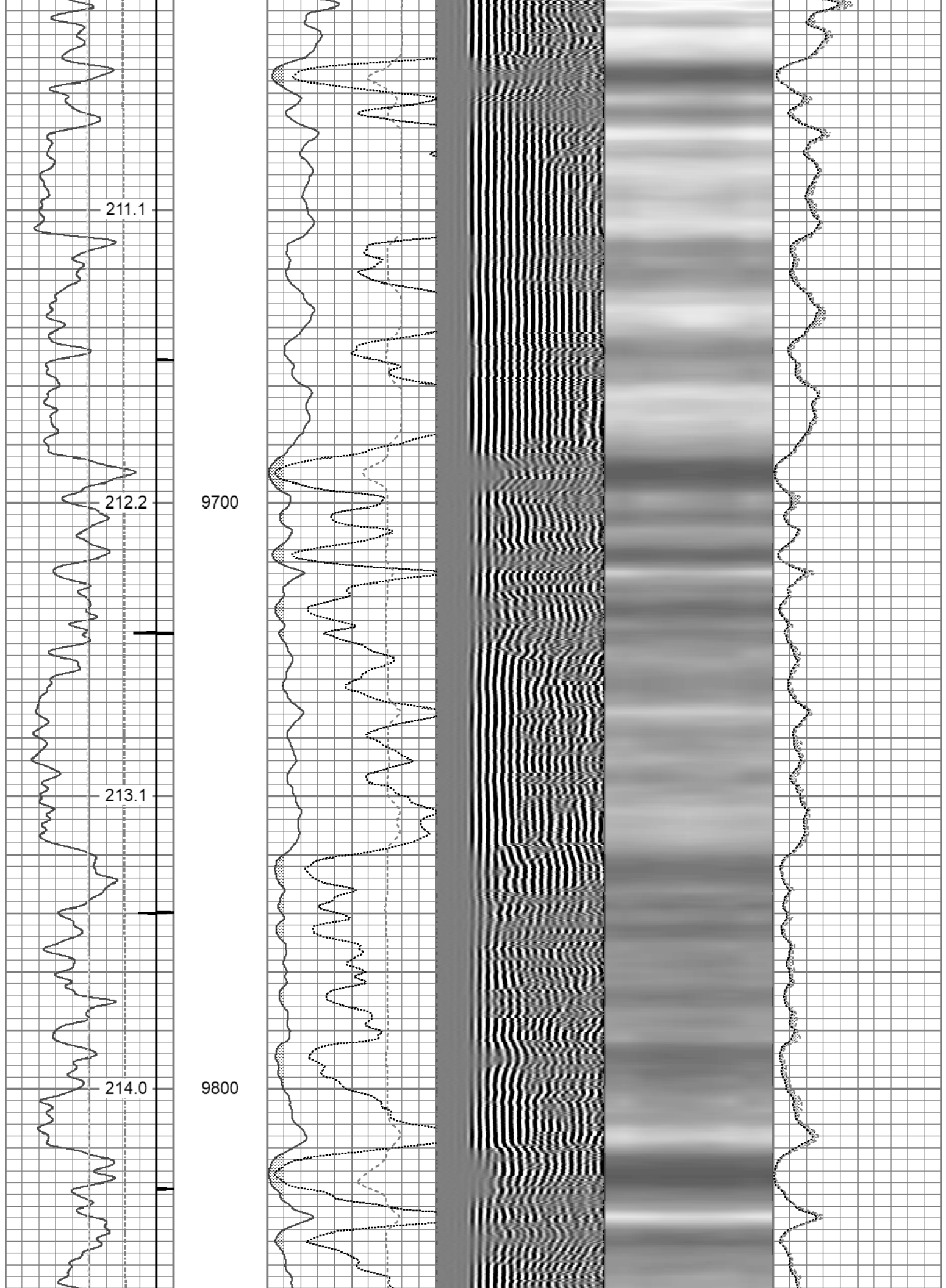


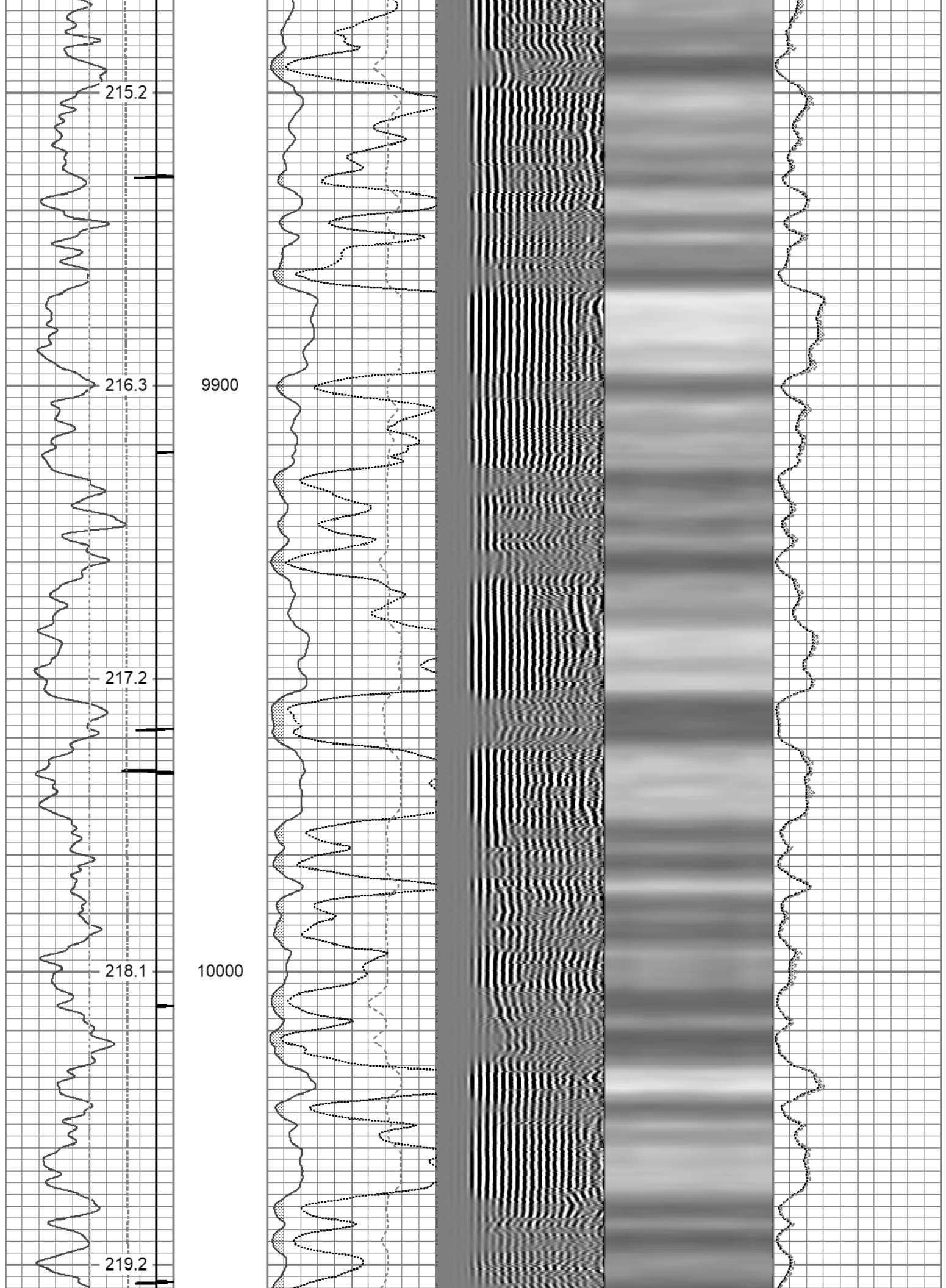


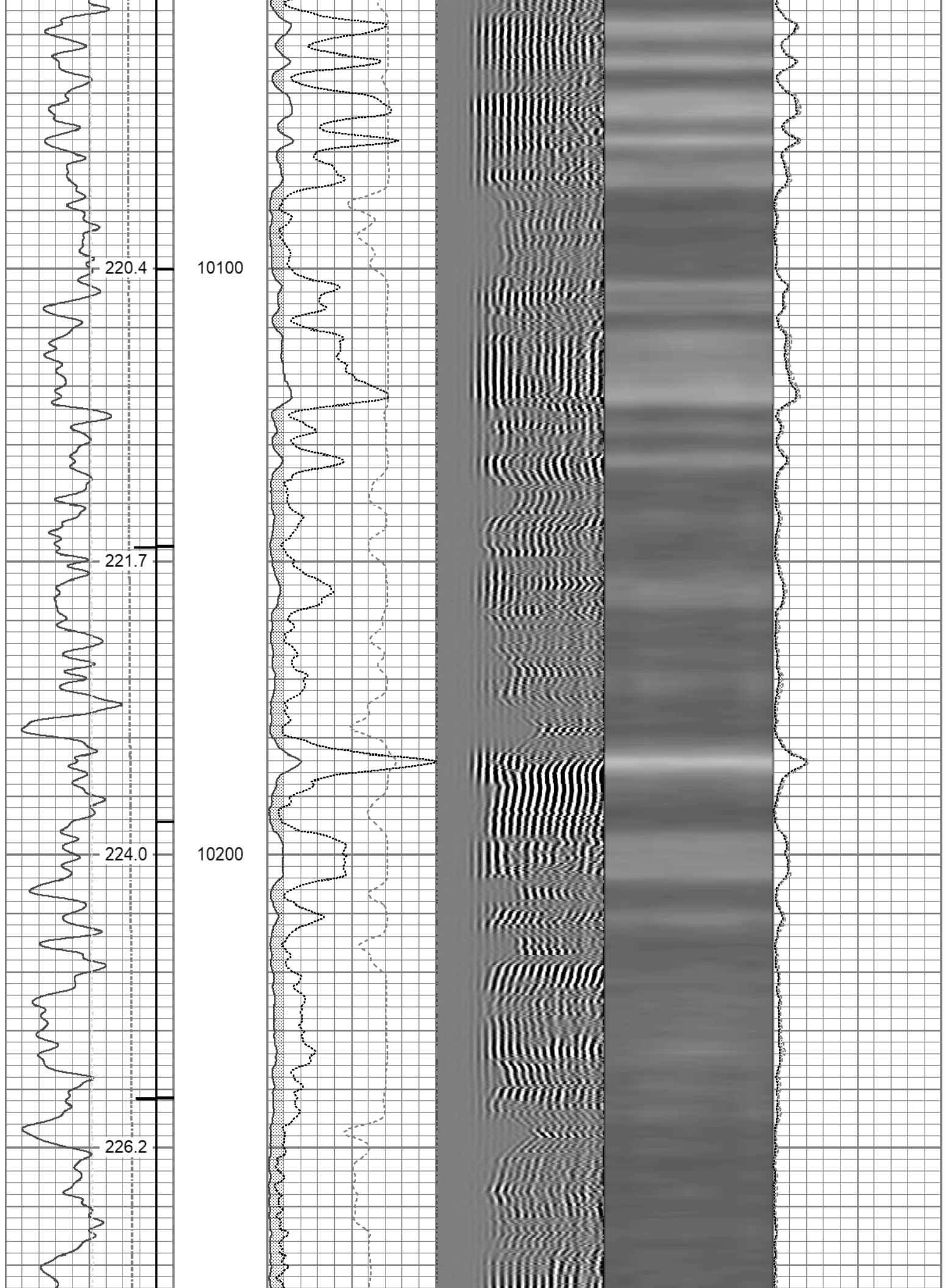


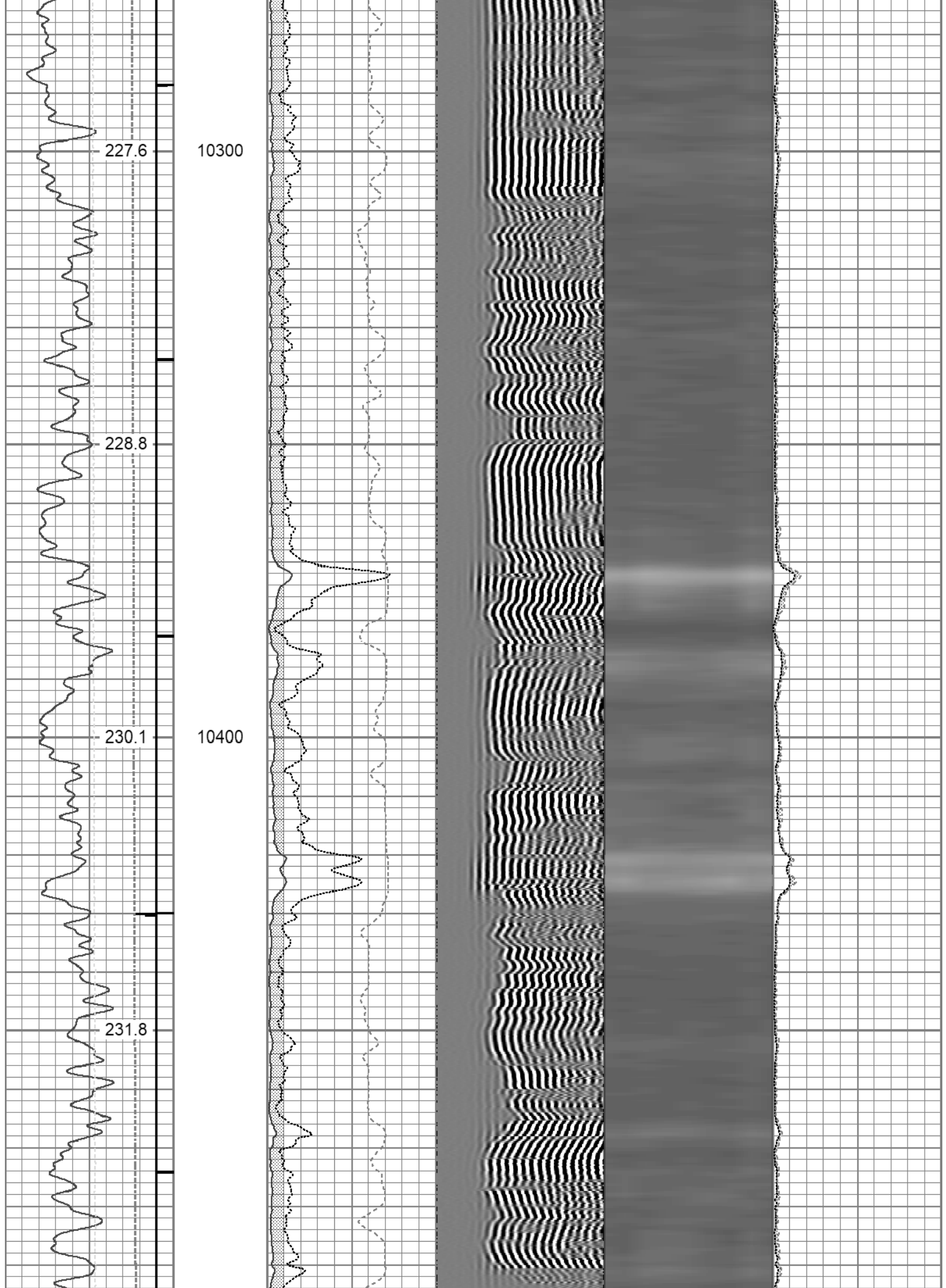


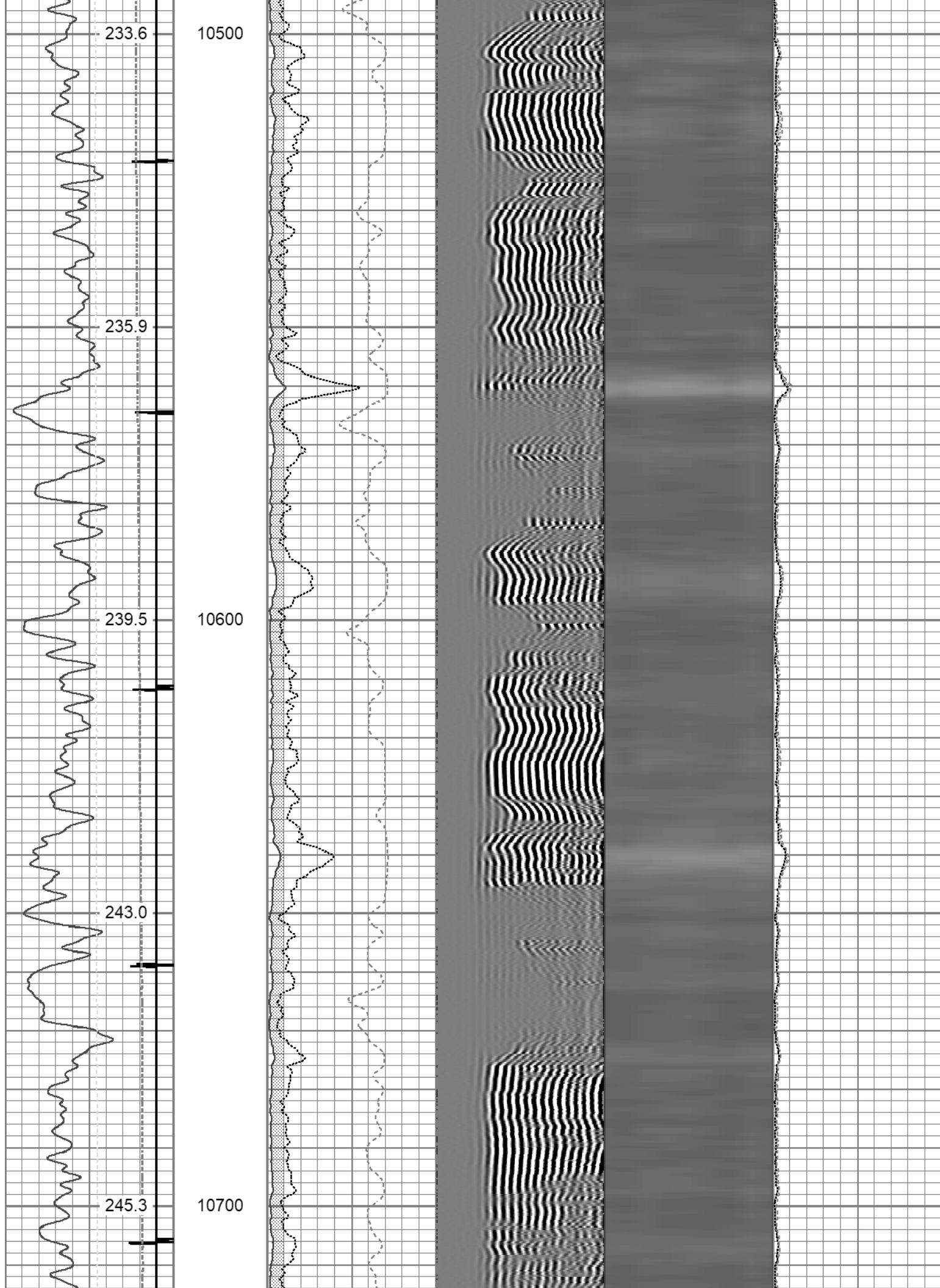


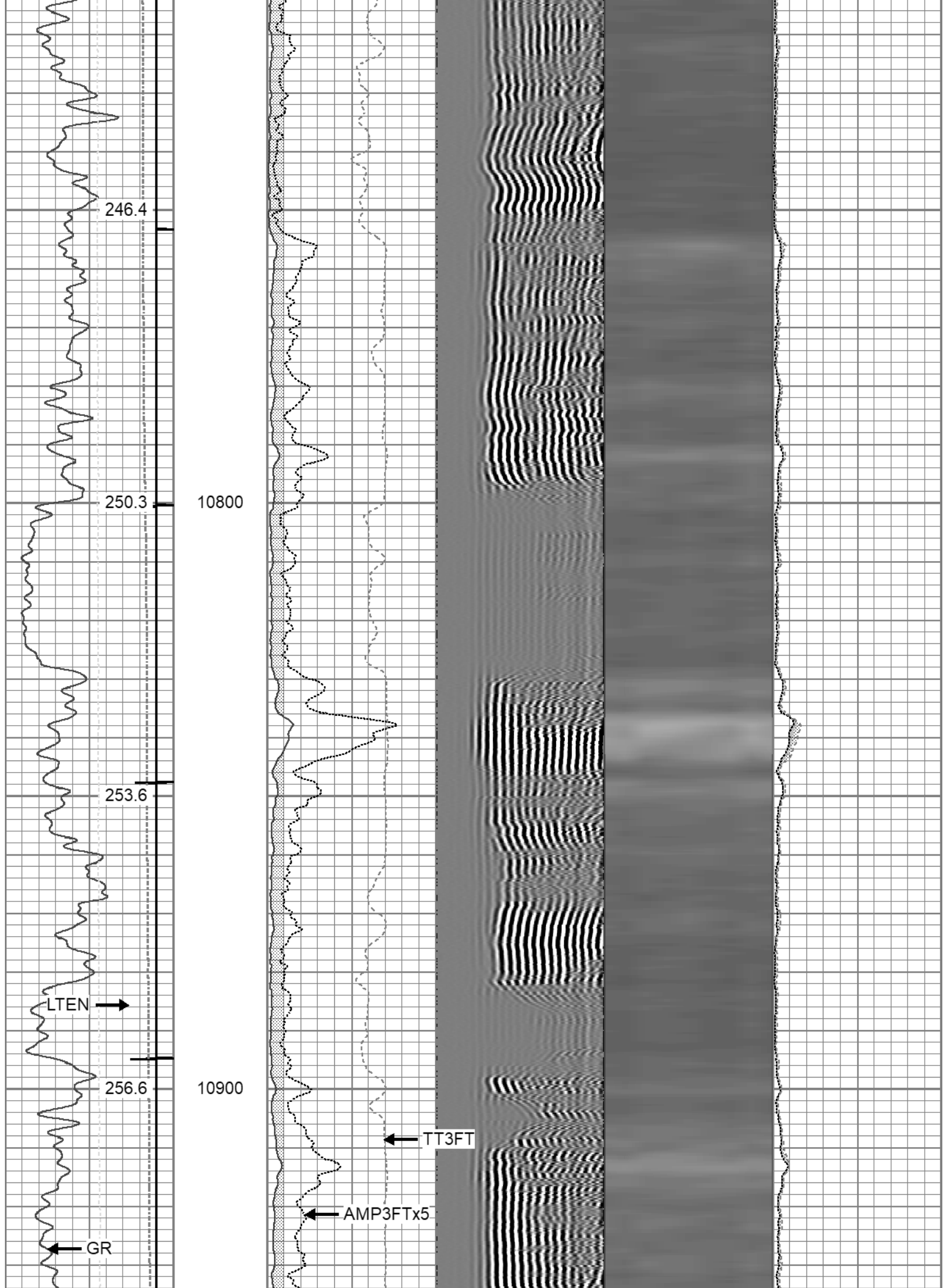


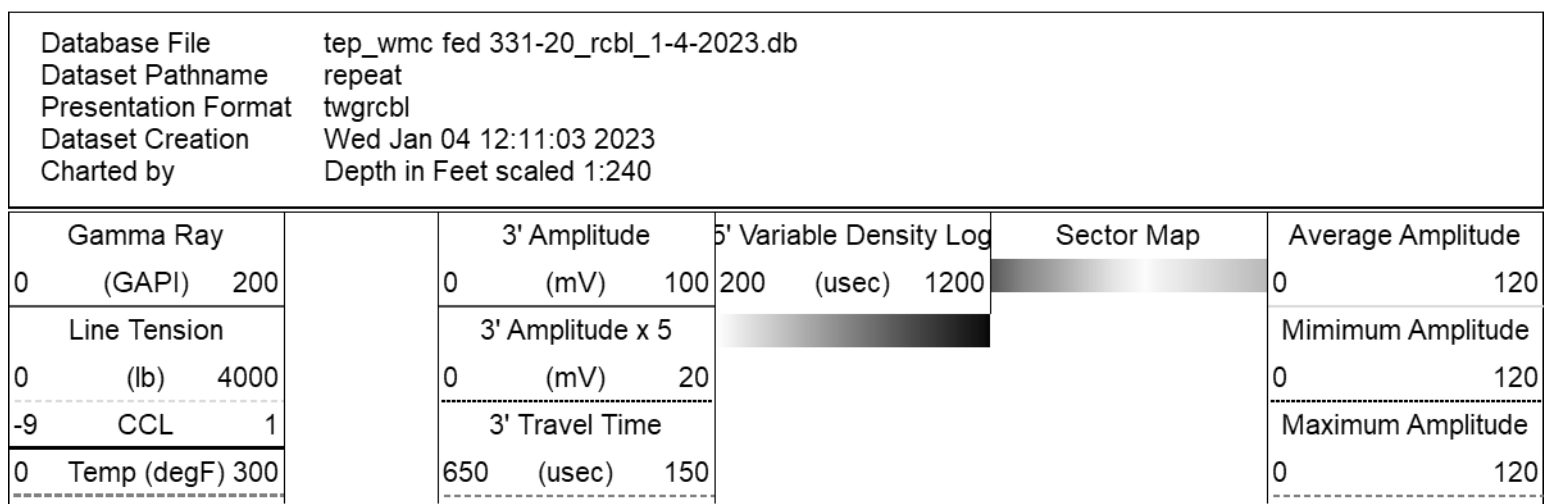
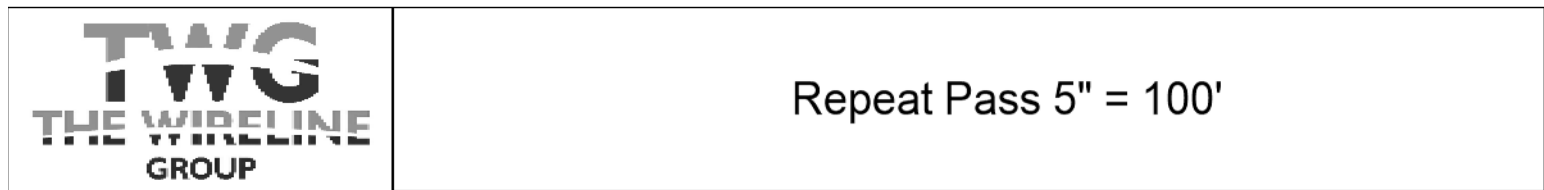


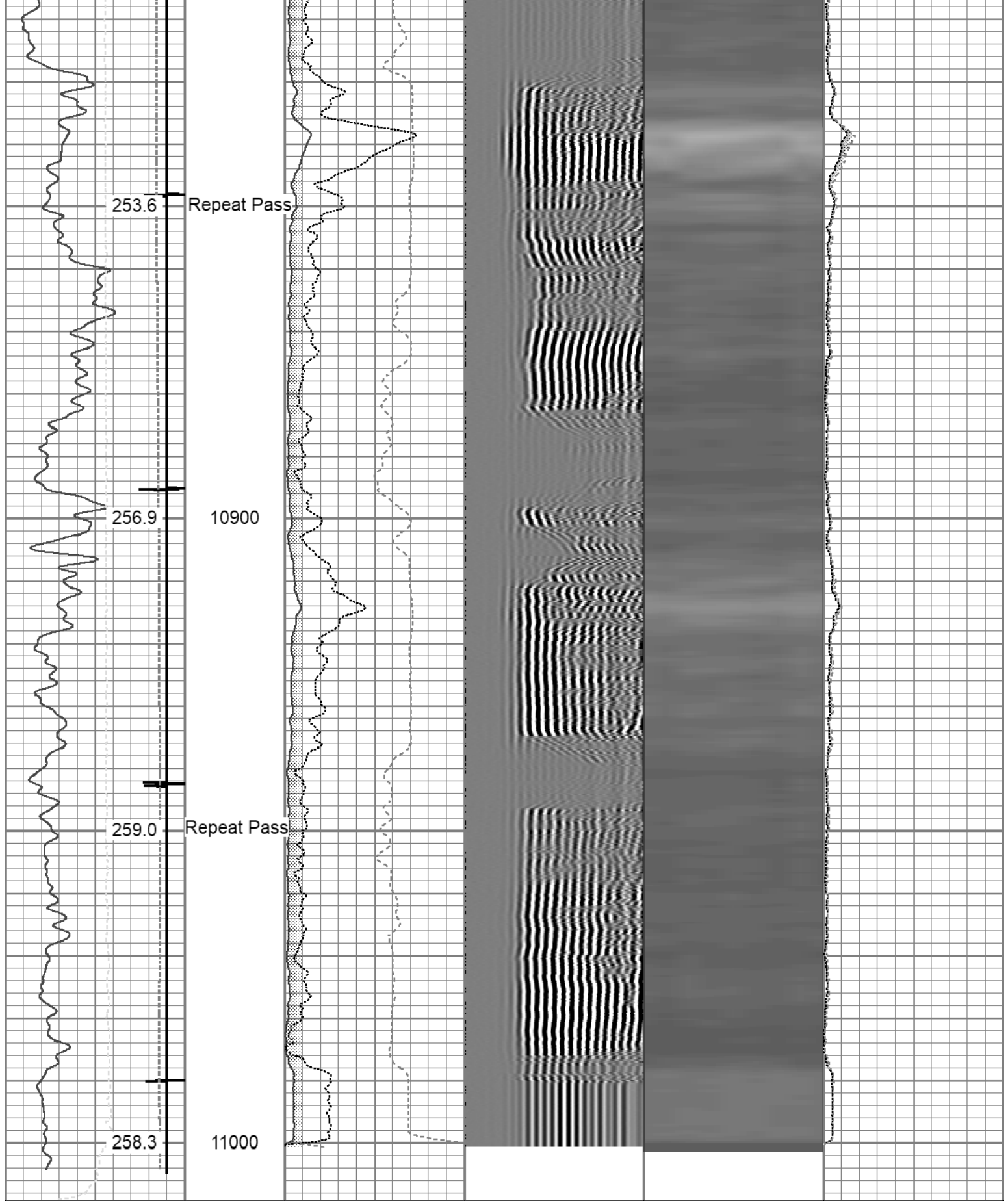














Gamma Ray		3' Amplitude		5' Variable Density Log		Sector Map		Average Amplitude	
0	(GAPI) 200	0	(mV) 100	200	(usec) 1200			0	120
Line Tension		3' Amplitude x 5				Minimum Amplitude			
0	(lb) 4000	0	(mV) 20			0		120	
CCL		3' Travel Time				Maximum Amplitude			
-9	1					0		120	
Temp (degF) 300		650 (usec) 150							

Calibration Report		
Database File	tep_wmc fed 331-20_rcbl_1-4-2023.db	
Dataset Pathname	main	
Dataset Creation	Wed Jan 04 12:15:39 2023	

Gamma Ray Calibration Report		
Serial Number:	FW1311-93	
Tool Model:	GCT275-0000	
Performed:	Thu Dec 29 18:15:38 2022	
Calibrator Value:	168.0	GAPI
Background Reading:	69.0	cps
Calibrator Reading:	299.3	cps
Sensitivity:	0.7294	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1312-30	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	278.924	ft

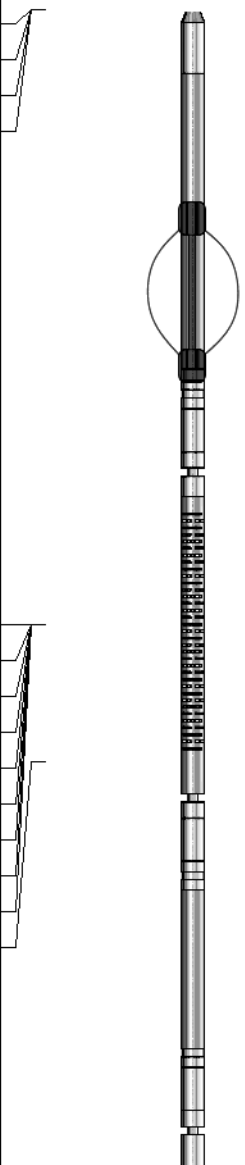
Master Calibration, performed Tue Jan 3 07:14:00 2023:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.511	0.000	81.196	147.744	-0.671
CAL	0.003	0.764				
5'	0.013	0.470	0.000	81.196	189.928	-2.321
SUM						
S1	0.005	0.516	0.000	100.000	185.992	-1.072
S2	0.007	0.547	0.000	100.000	179.809	-1.220
S3	0.004	0.492	0.000	100.000	179.337	-0.921
S4	0.005	0.532	0.000	100.000	175.506	-0.867
S5	0.004	0.528	0.000	100.000	172.552	-0.669
S6	0.005	0.528	0.000	100.000	172.189	-0.946
S7	0.006	0.551	0.000	100.000	176.780	-1.127
S8	0.004	0.486	0.000	100.000	186.883	-0.747

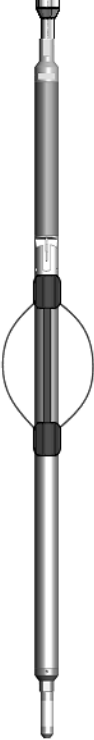
Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.764	1.000	0.000


Air Zero Calibration, performed Mon Jan 2 11:33:52 2023:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	

5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Inclinometer Calibration Report					
Performed:	Thu Jul 28 15:46:49 2022				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-931.00	904.00	-1.00	1.00	gee
Y Accelerometer	-899.00	884.00	-1.00	1.00	gee
Z Accelerometer	1.47	886.18	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_FMWR	13.85					
mSec_Count	13.85					
RBT_Status	13.85					
Error_Ct	13.85					
			SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
			RBT8acc-Probe275acc (FW1312-30) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS8	9.35					
WVFS7	9.35					
WVFS6	9.35					
WVFS5	9.35					
WVFS4	9.35					
WVFS3	9.35					
WVFS2	9.35					
WVFS1	9.35					
WVF3FT	9.35					
WVF5FT	8.35					

RBT_ACCZ	5.10		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
RBT_ACCY	5.10					
RBT_ACCX	5.10					
GCT_HV	5.10					
WVFSYNC	5.10					
WVFCAL	5.10					
CCL\$2	4.14					
CCL\$1	4.14					
GCT_Temp	3.59					
GR	2.72					
GCT_IntTemp	2.00		GC-GCT275-0000 (FW1311-93) Probe 2.75" Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
			Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00
Dataset: tep_wmc fed 331-20_rcbl_1-4-2023.db: field/well/run1/main Total length: 13.85 ft Total weight: 186.00 lb O.D.: 3.25 in						

Company	TEP Rocky Mountain LLC			
Well	Federal WMC 331-20			
Field	Rulison			
County	Garfield	State	Colorado	
	Radial Cement Bond			
	Gamma Ray			
	Casing Collar Log			