

Radial Cement Bond Log
Gamma Ray
CCL

Company Kerr McGee Oil and Gas
Well STREED 10-13
Field WATTENBERG
County WELD State COLORADO

Company Kerr McGee Oil and Gas
Well STREED 10-13
Field WATTENBERG
County WELD
State COLORADO

Location: SHL: 2064' FSL 2441 FEL
LAT: 40.22320 LONG: -104.83870
SEC 13 TWP 3N RGE 67W
Permanent Datum GL Elevation 4784'
Log Measured From K.B. 10' Elevation K.B. 4794'
Drilling Measured From KB D.F. 4793'
G.L. 4784'

Date

Run Number

Depth Driller

Depth Logger

Bottom Logged Interval

Top Log Interval

Open Hole Size

Type Fluid

Density / Viscosity

Max. Recorded Temp.

Estimated Cement Top

Time Well Ready

Time Logger on Bottom

Equipment Number

Location

Recorded By

Witnessed By

Borehole Record

Bit

From

To

Size

Weight

From

To

Casing Record

Surface String

Prot. String

Production String

Liner

Size

Wgt/Ft

Top

Bottom

8.63

24#

SURFACE

4.5

11.6#

SURFACE

7.467'

754'

7467'

<<< Fold Here >>>

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

RAN C.B.L. TO VERIFY CEMENTN TOP.


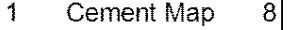
NOT CORRELATED

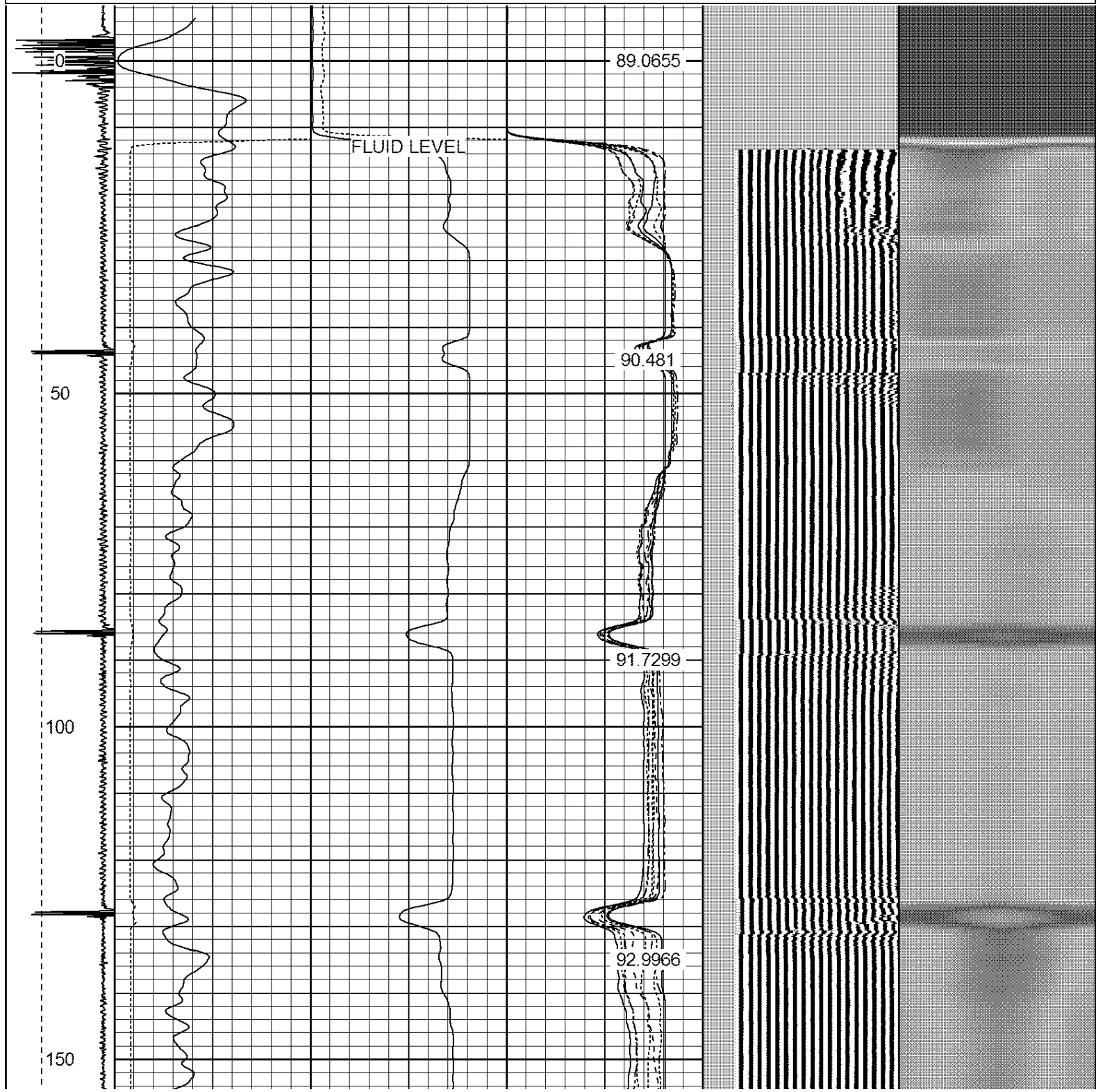
THANK YOU FOR USING WARRIOR ENERGY SERVICES!

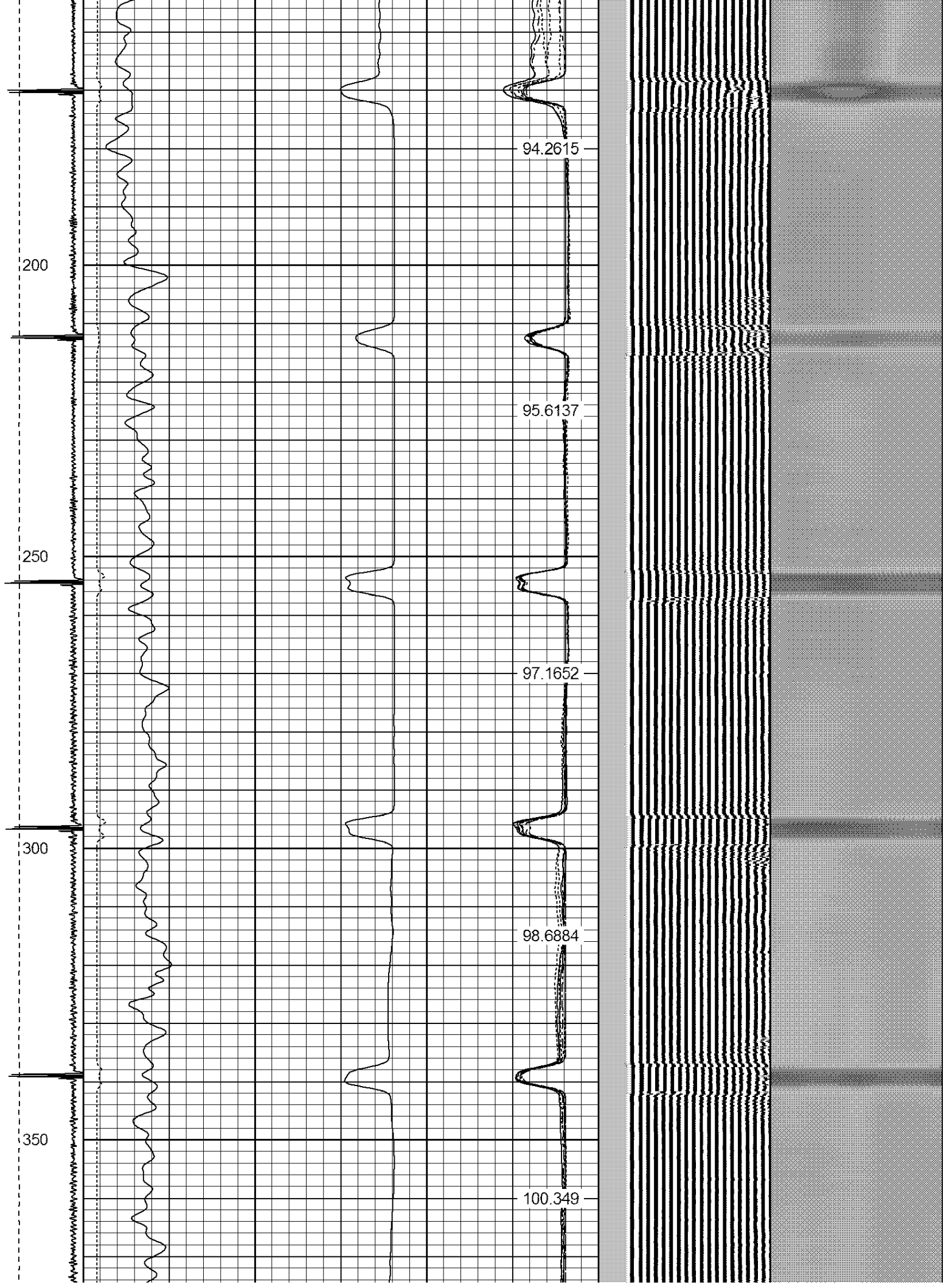
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CENT	19.08					

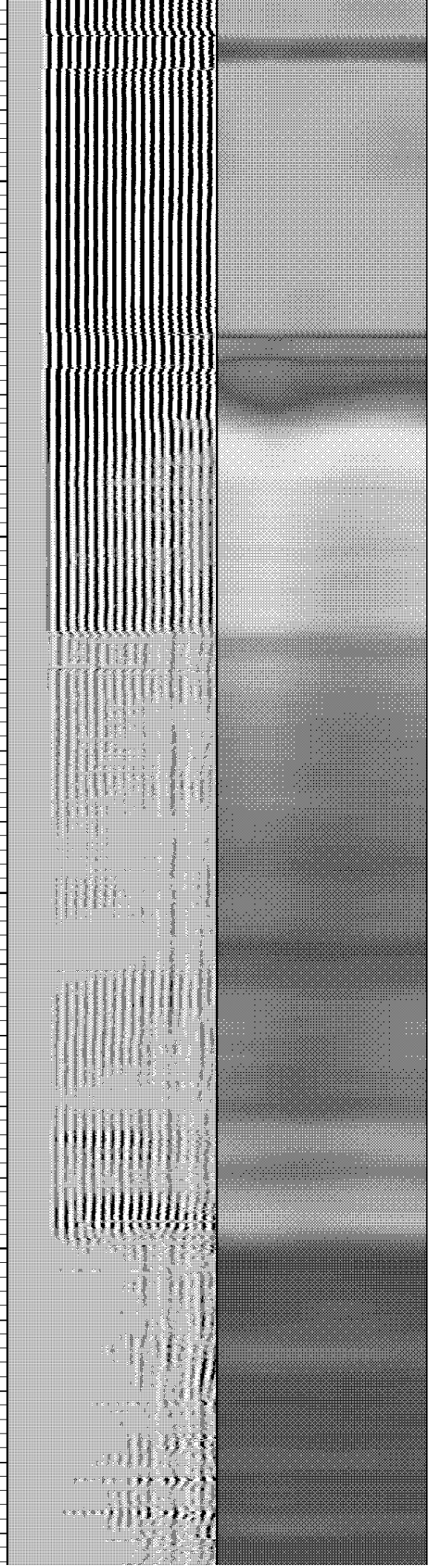
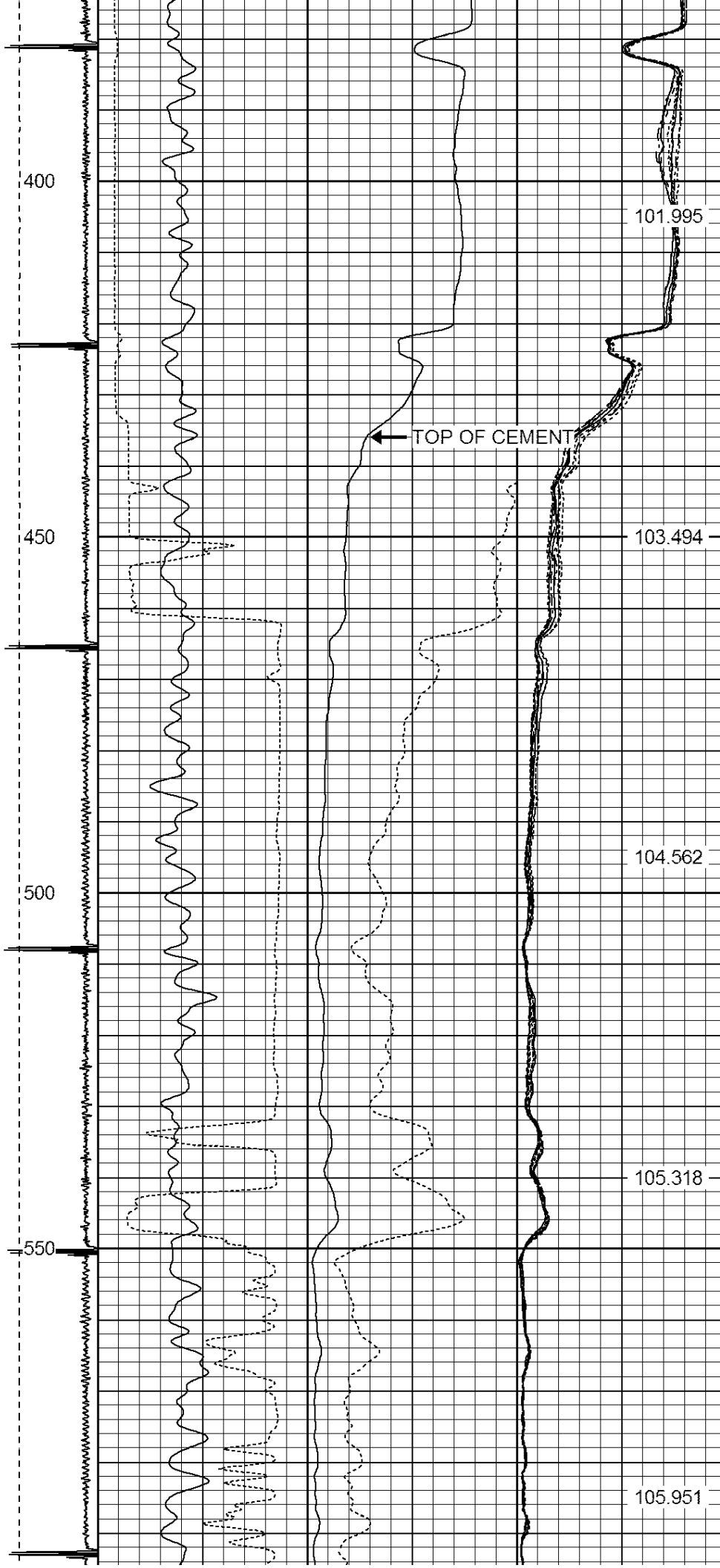
			PTS275	2.83	2.75	
HEADVOLT	16.25					
RBT	16.25					
IntTemp	14.83					
WVF3FT	11.58					
WVFCAL	11.58					
WVFS1	11.58					
WVFS2	11.58					
WVFS3	11.58					
WVFS4	11.58					
WVFS5	11.58					
WVFS6	11.58					
WVFS7	11.58					
WVFS8	11.58					
WVF5FT	10.58					
CNLSC	6.00					
CNSSC	5.17					
GR	4.33					
CCL	3.64					
GR	0.90					
Dataset: hsr streed 10-13.db: field/well/run1/pass7						
Total Length: 19.08 ft						
Total Weight: 160.00 lb						
O.D. 2.75 in						

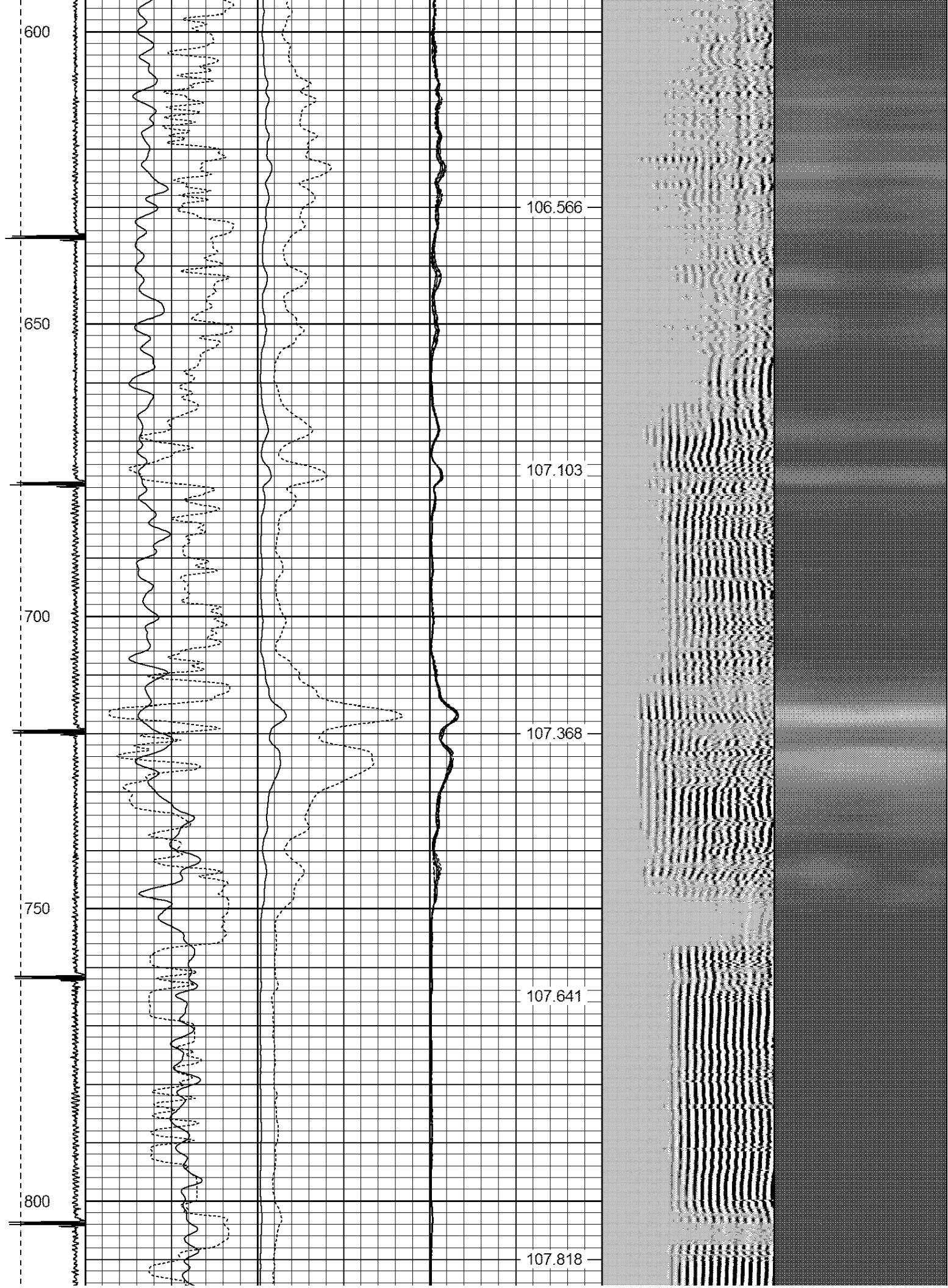
Database File:	hsr streed 10-13.db
Dataset Pathname:	pass7
Presentation Format:	ips_rbt

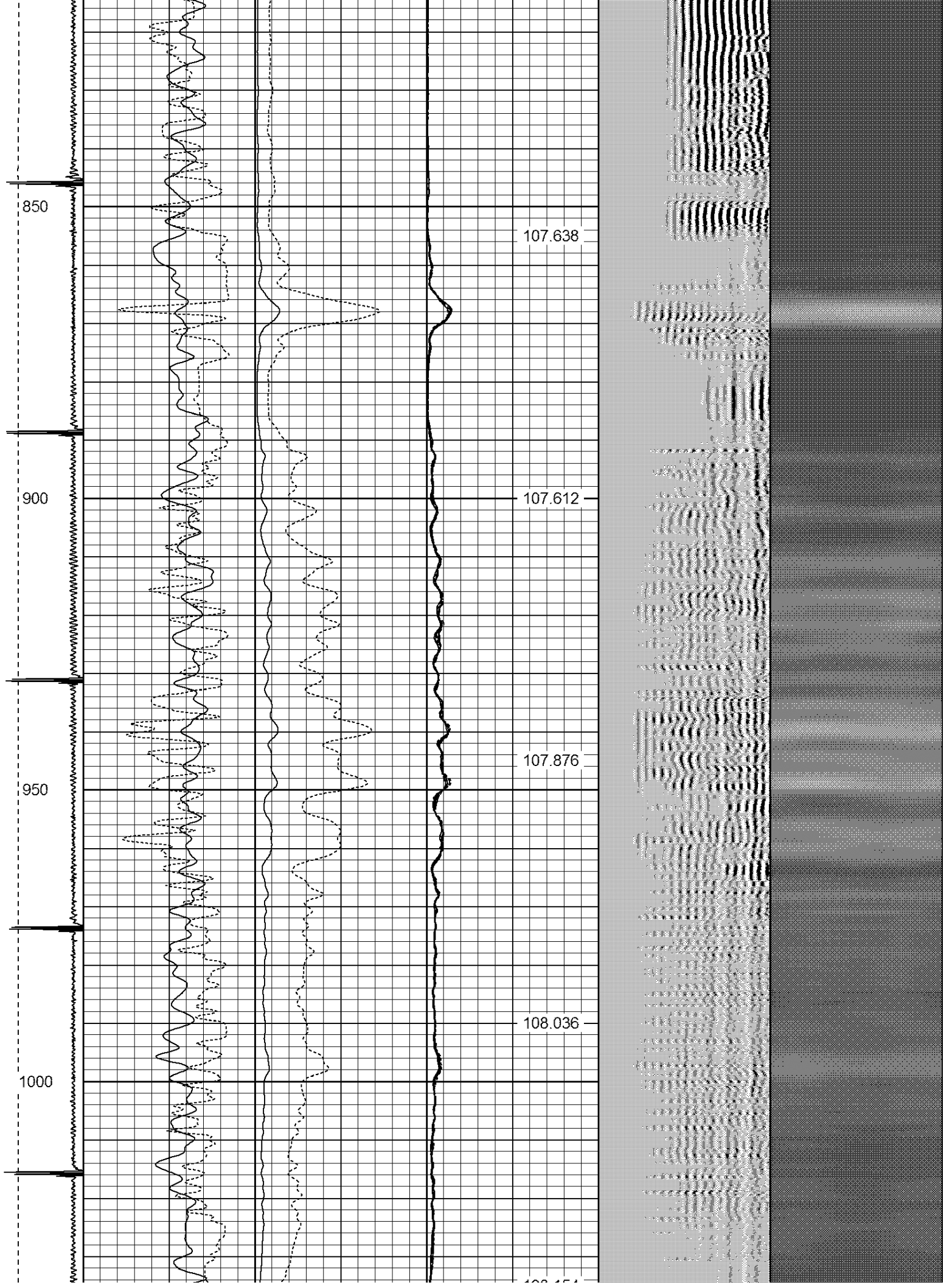
-9	CCL	1	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8
LSPD (ft/min)	0		GR (cps)		200	0	AMPx5 (mV)	20	0	AMPS2	100			1			100
	200		GR (cps)		400			0	AMPS3	100							
	0							0	AMPS4	100							
						0		AMPS5	100								
						0		AMPS6	100								
						0		AMPS7	100								
						0		AMPS8	100								
										IntTemp (degF)							

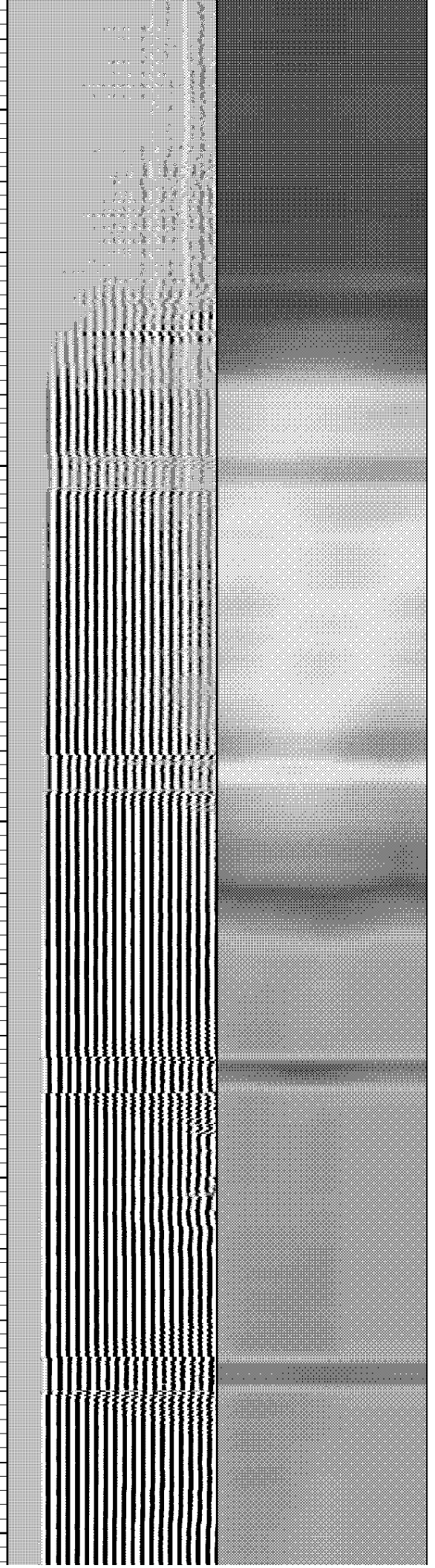
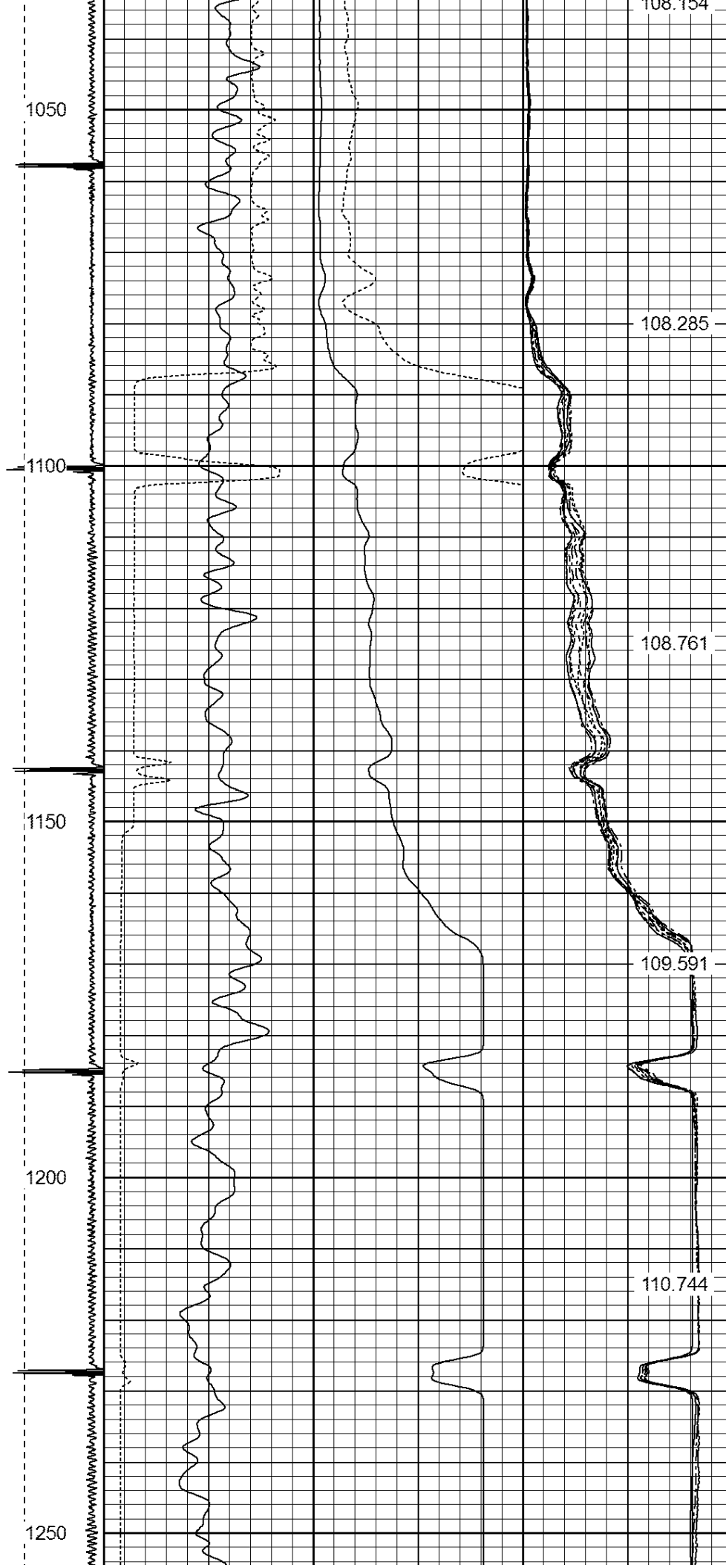


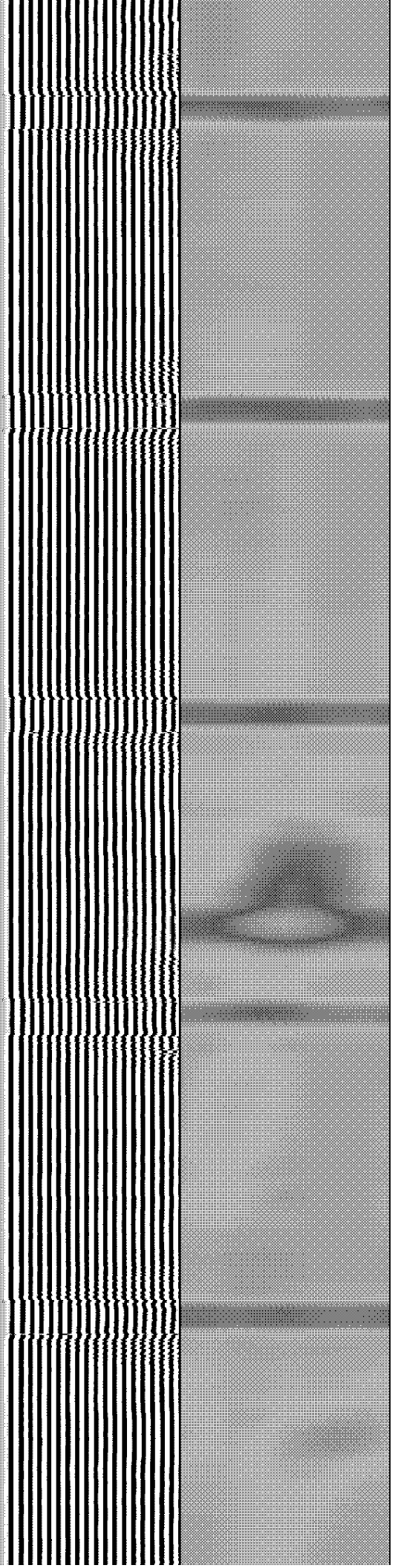
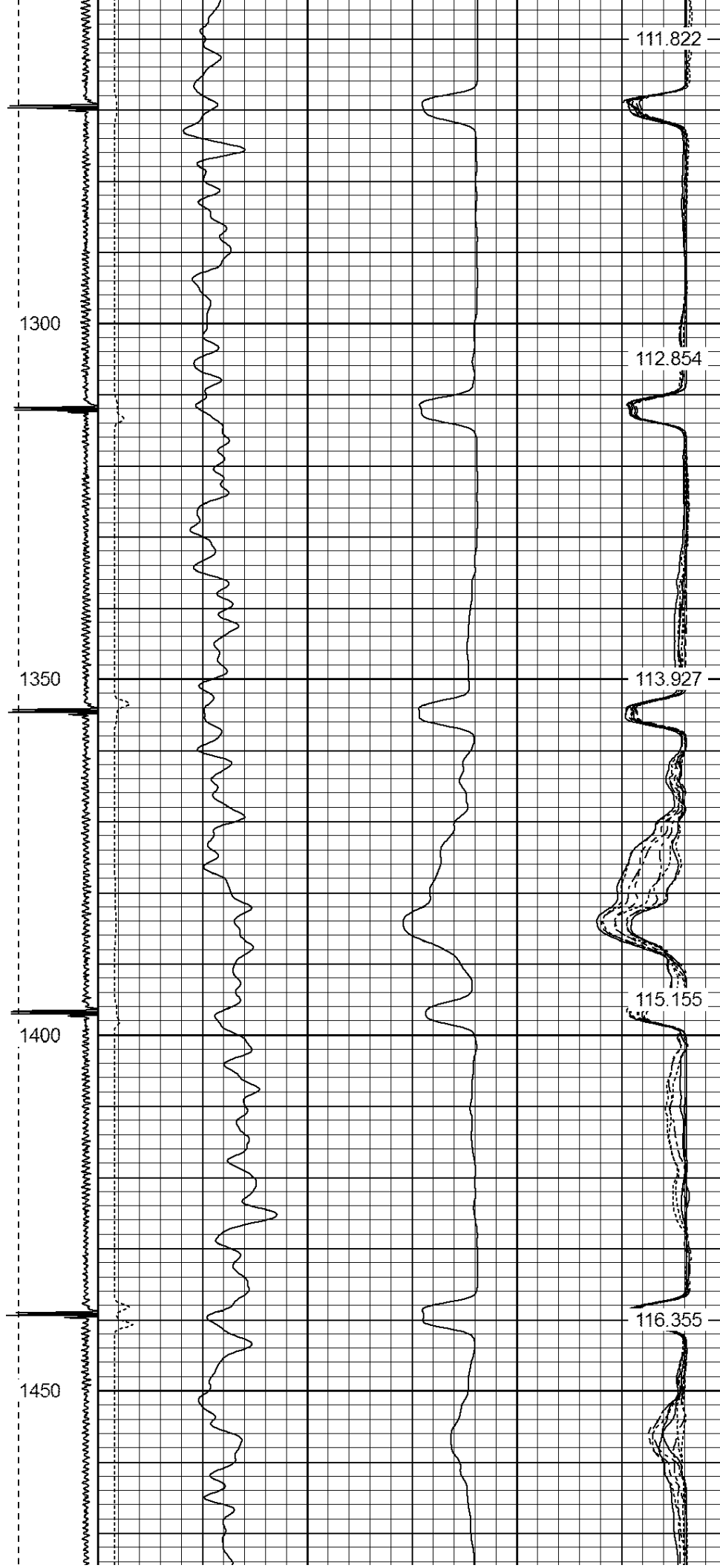


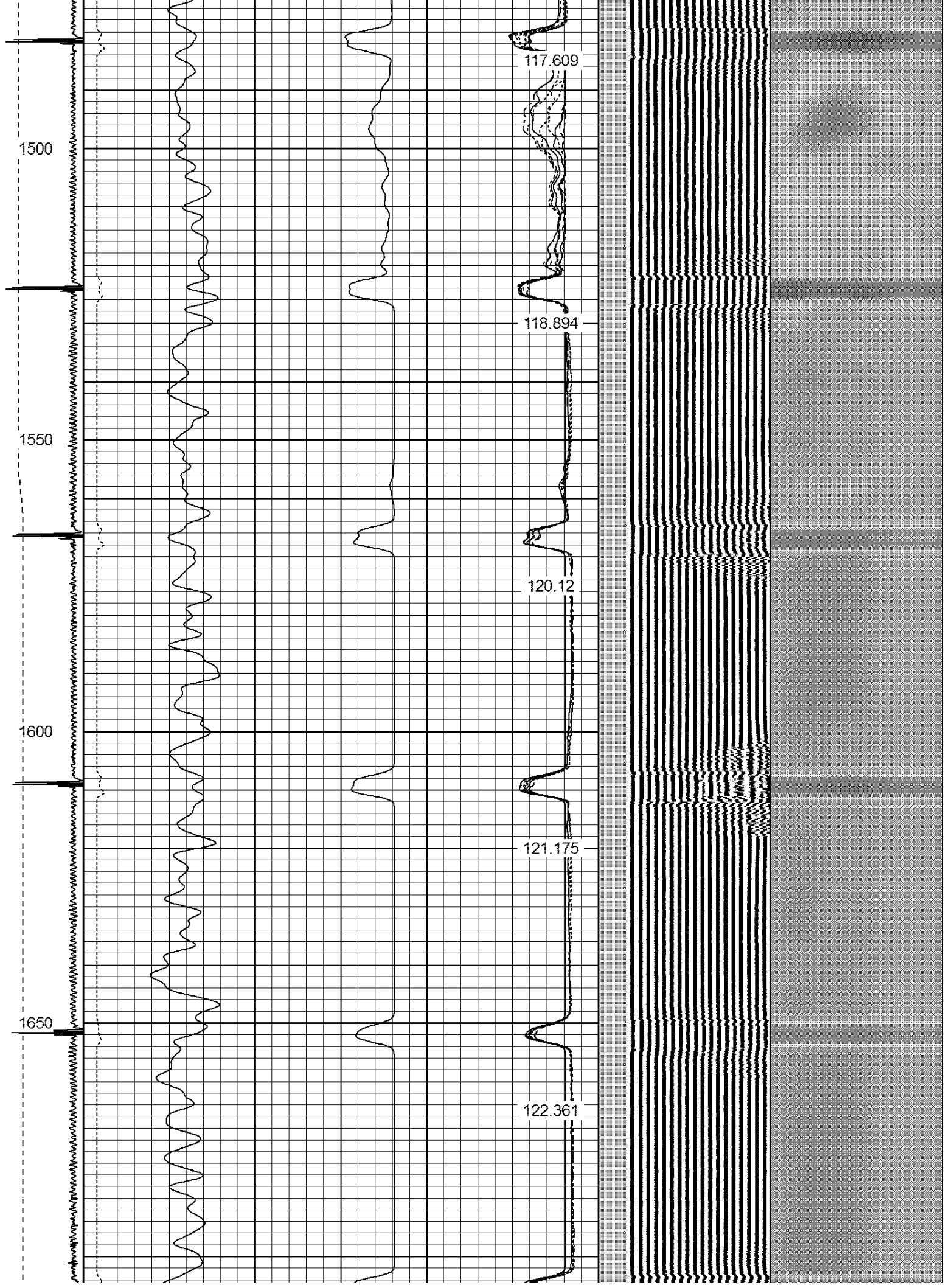


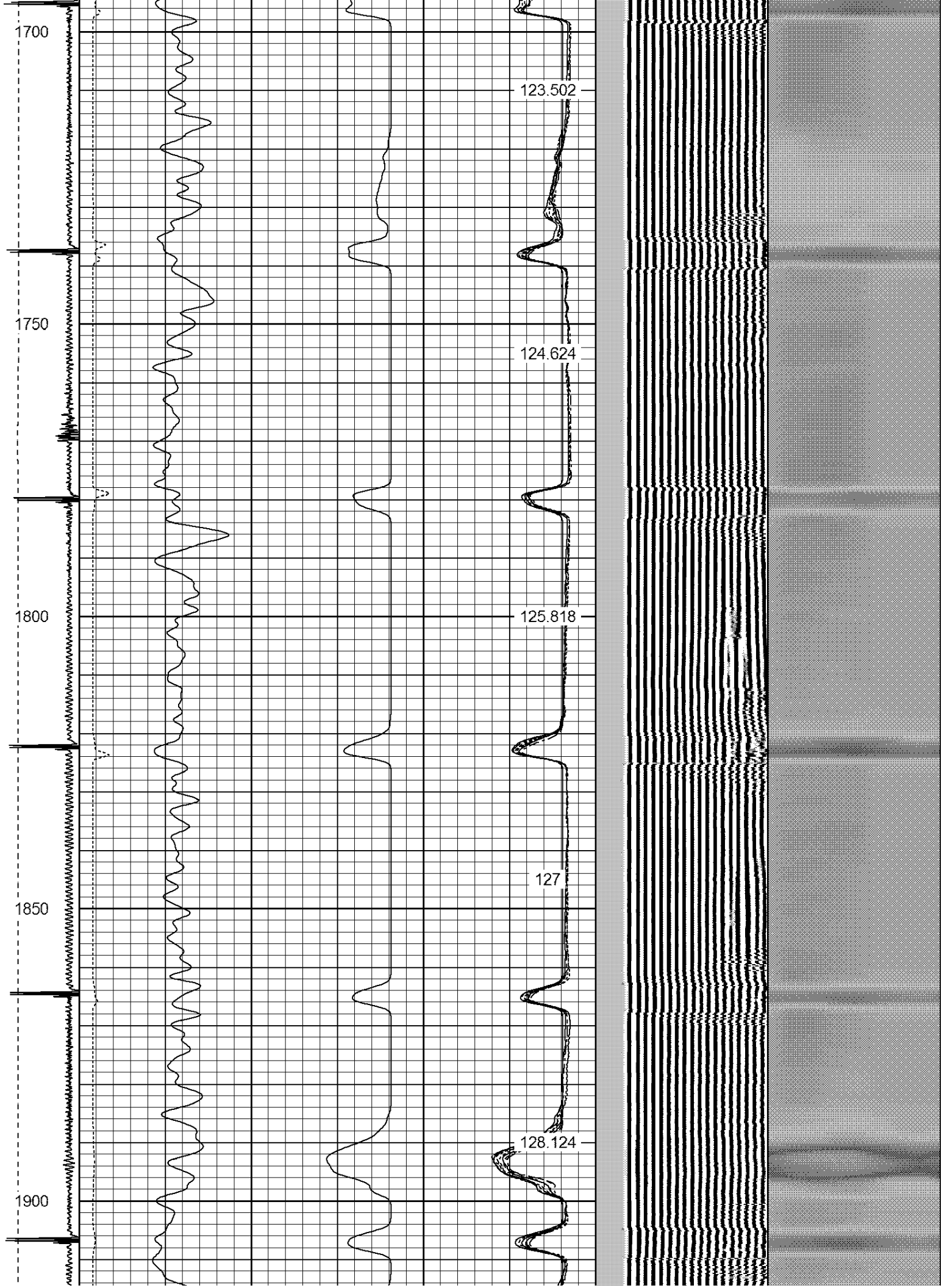


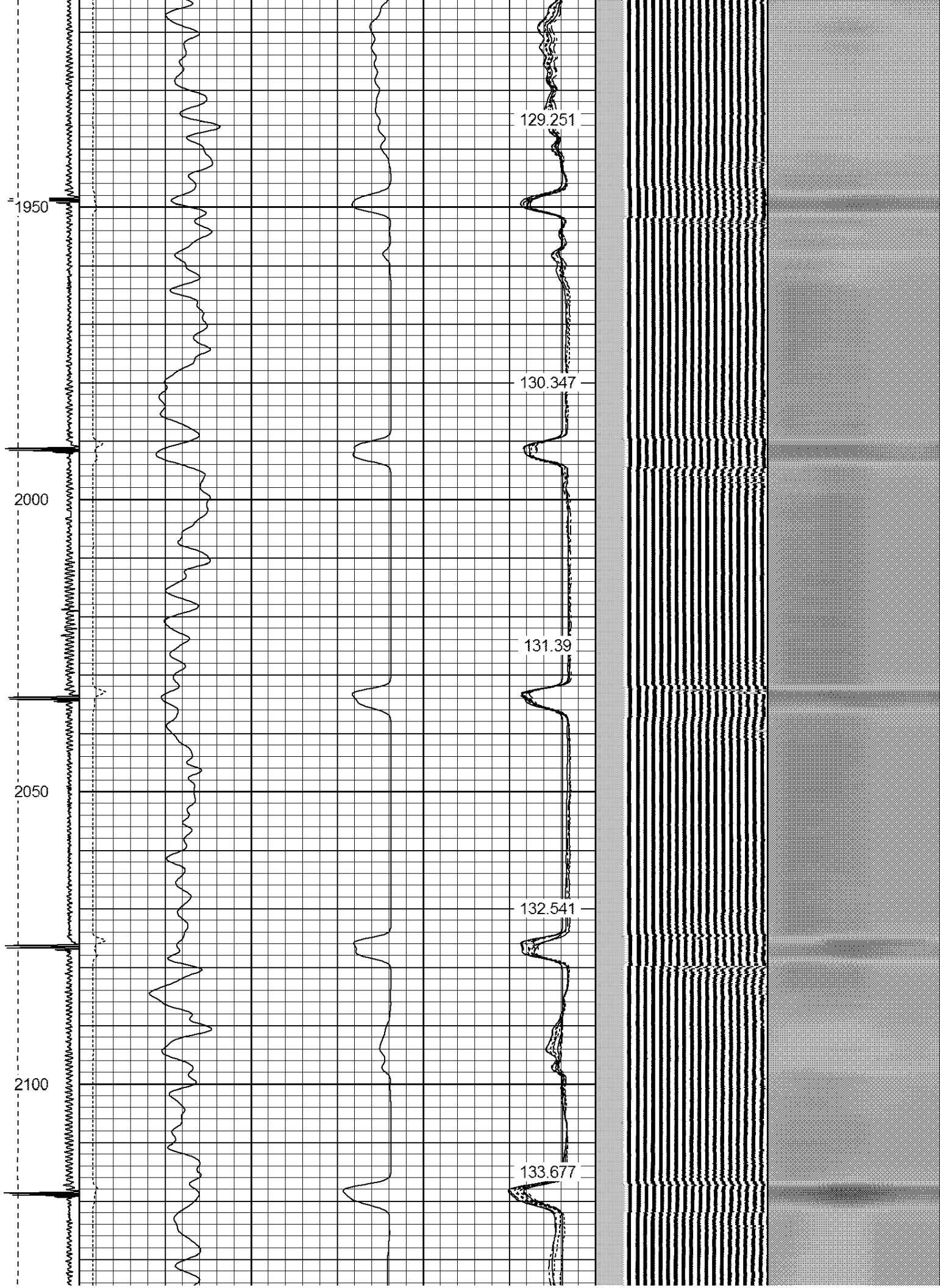


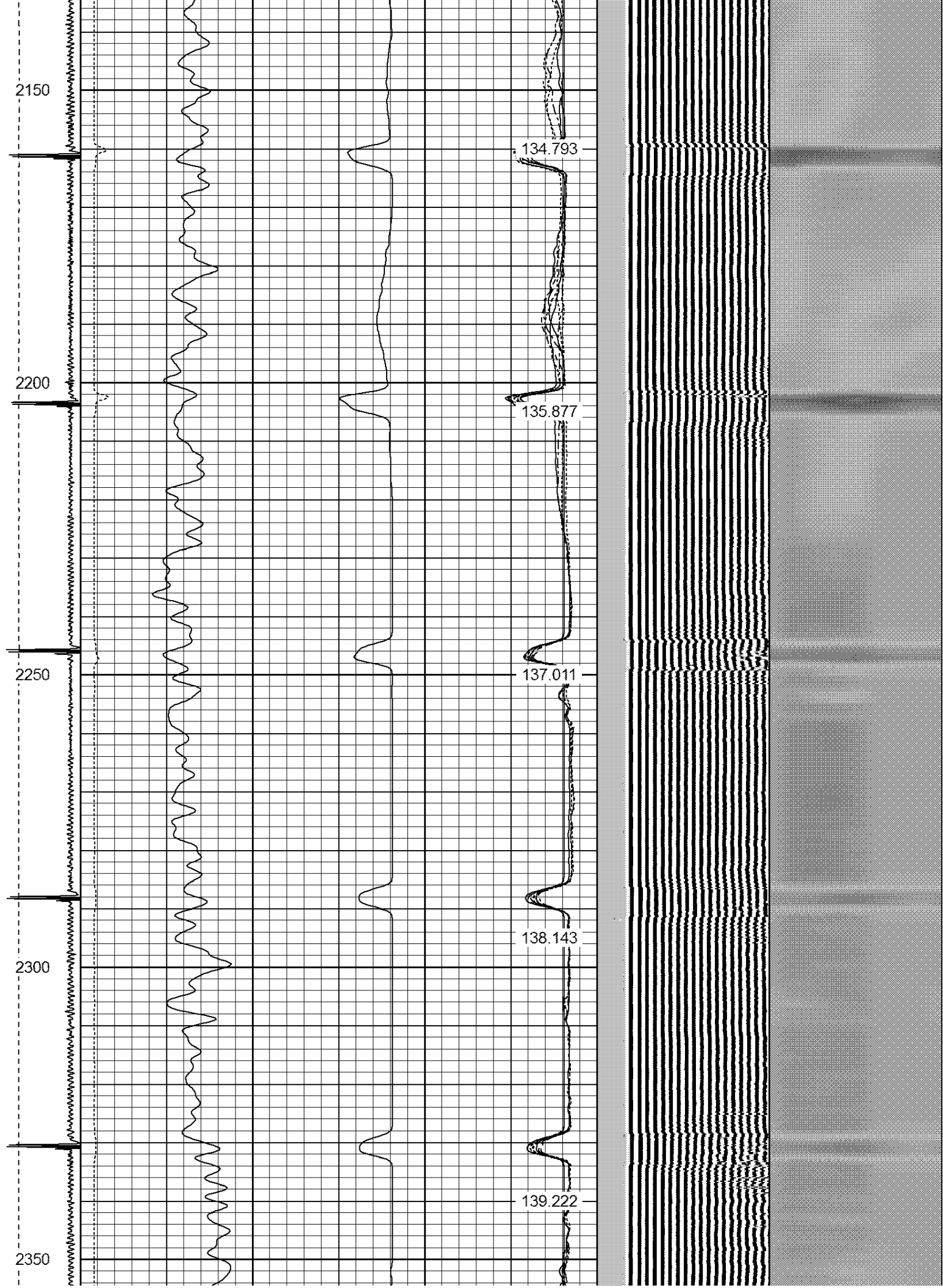


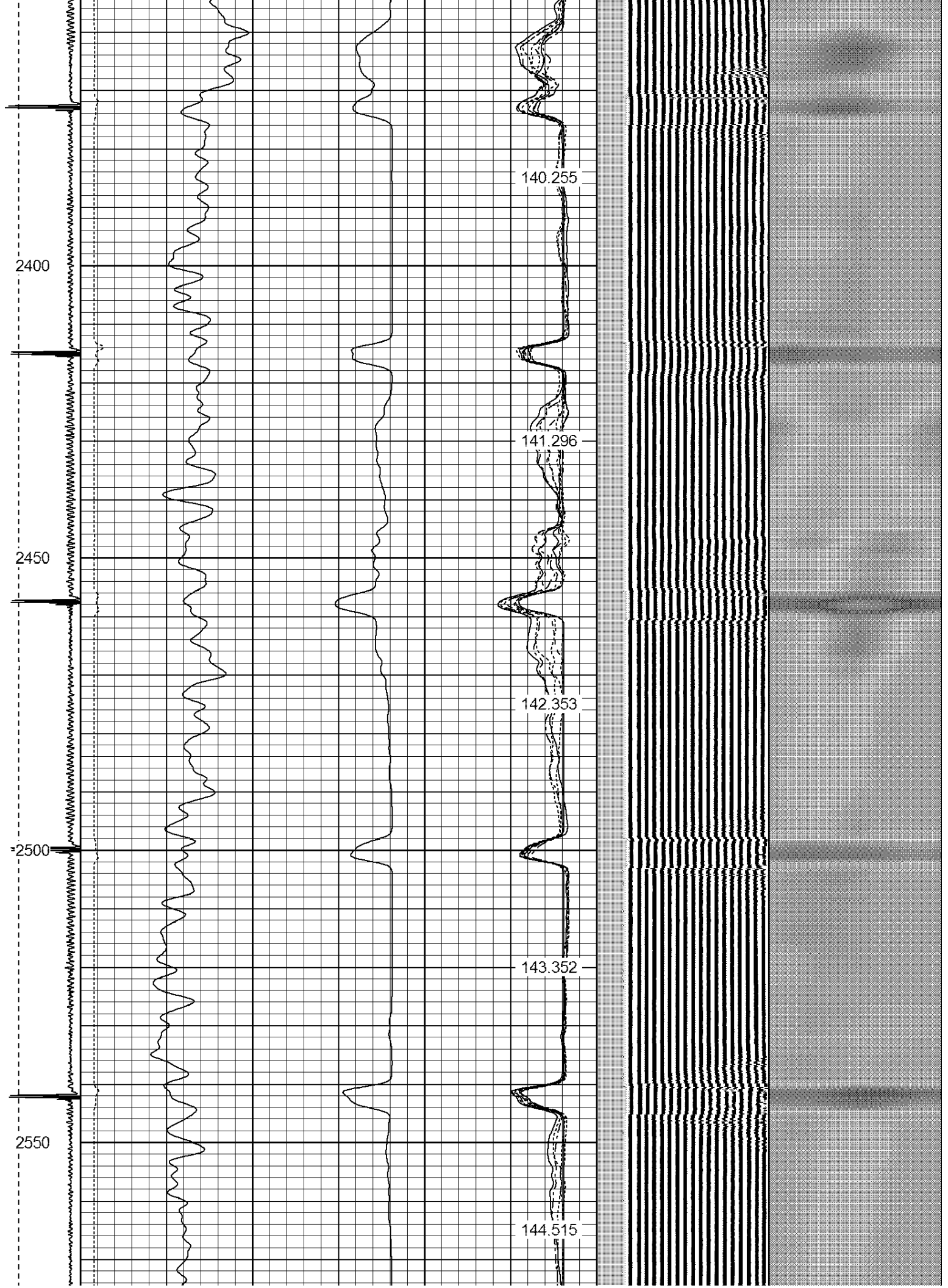


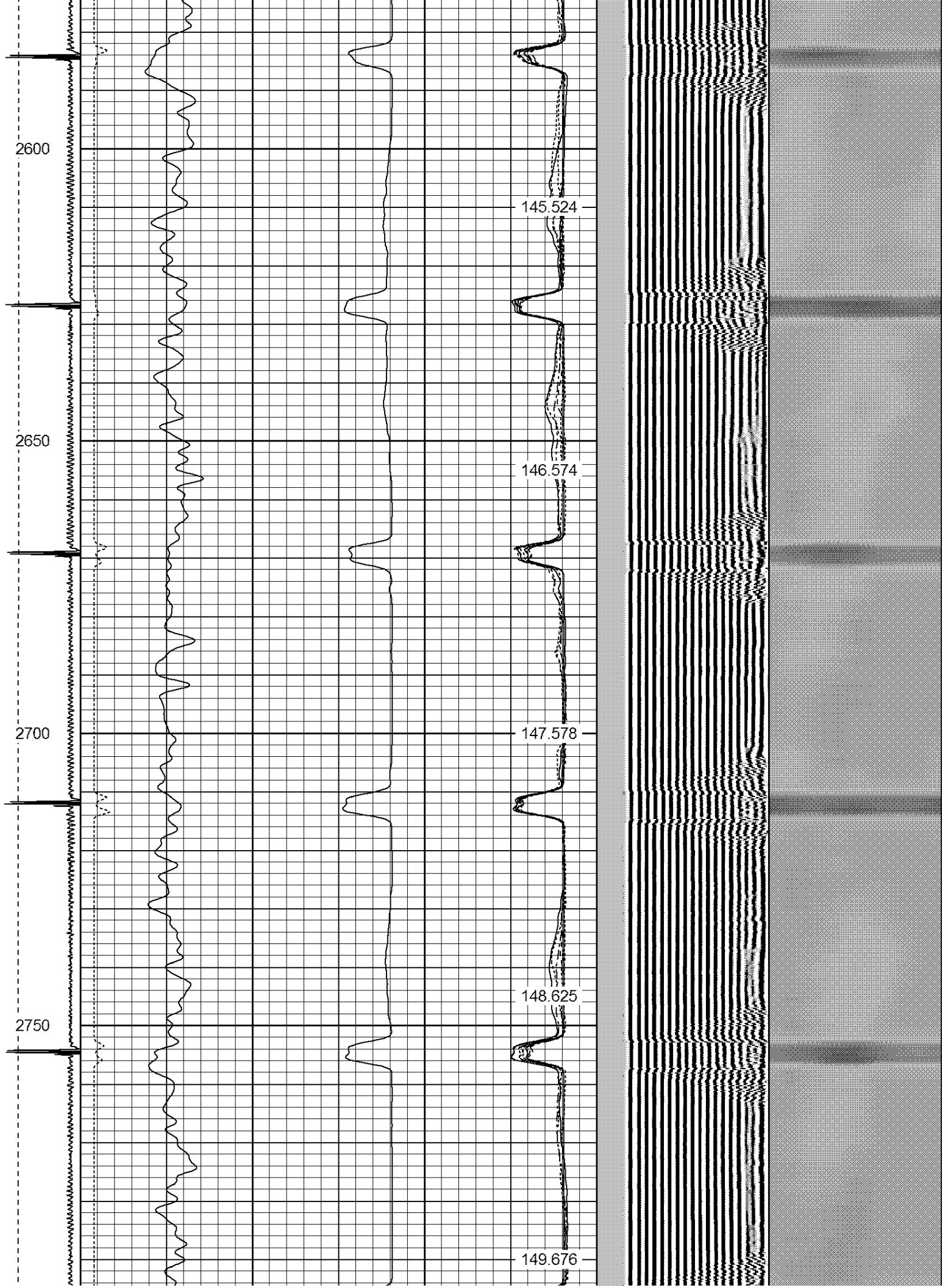


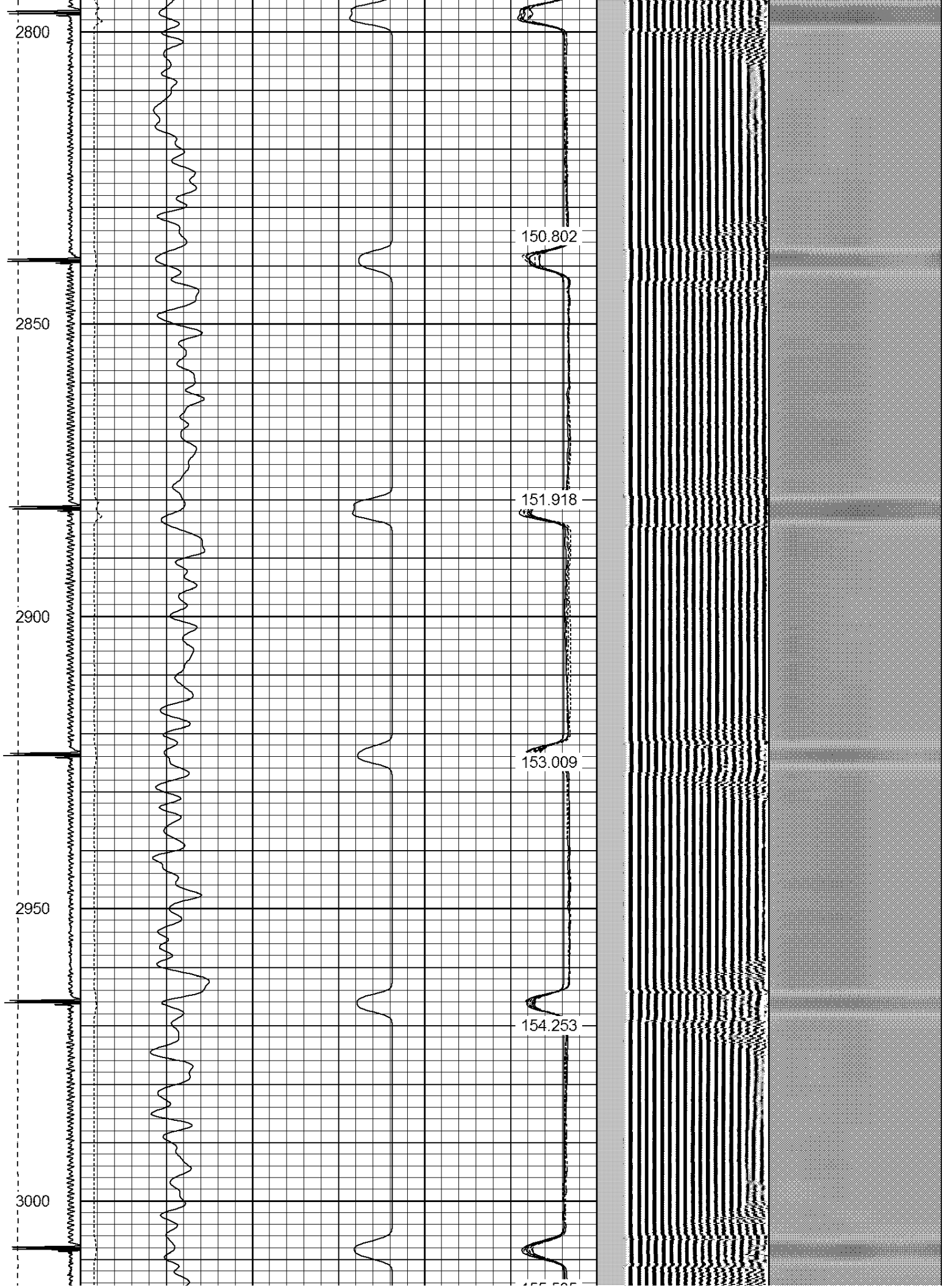


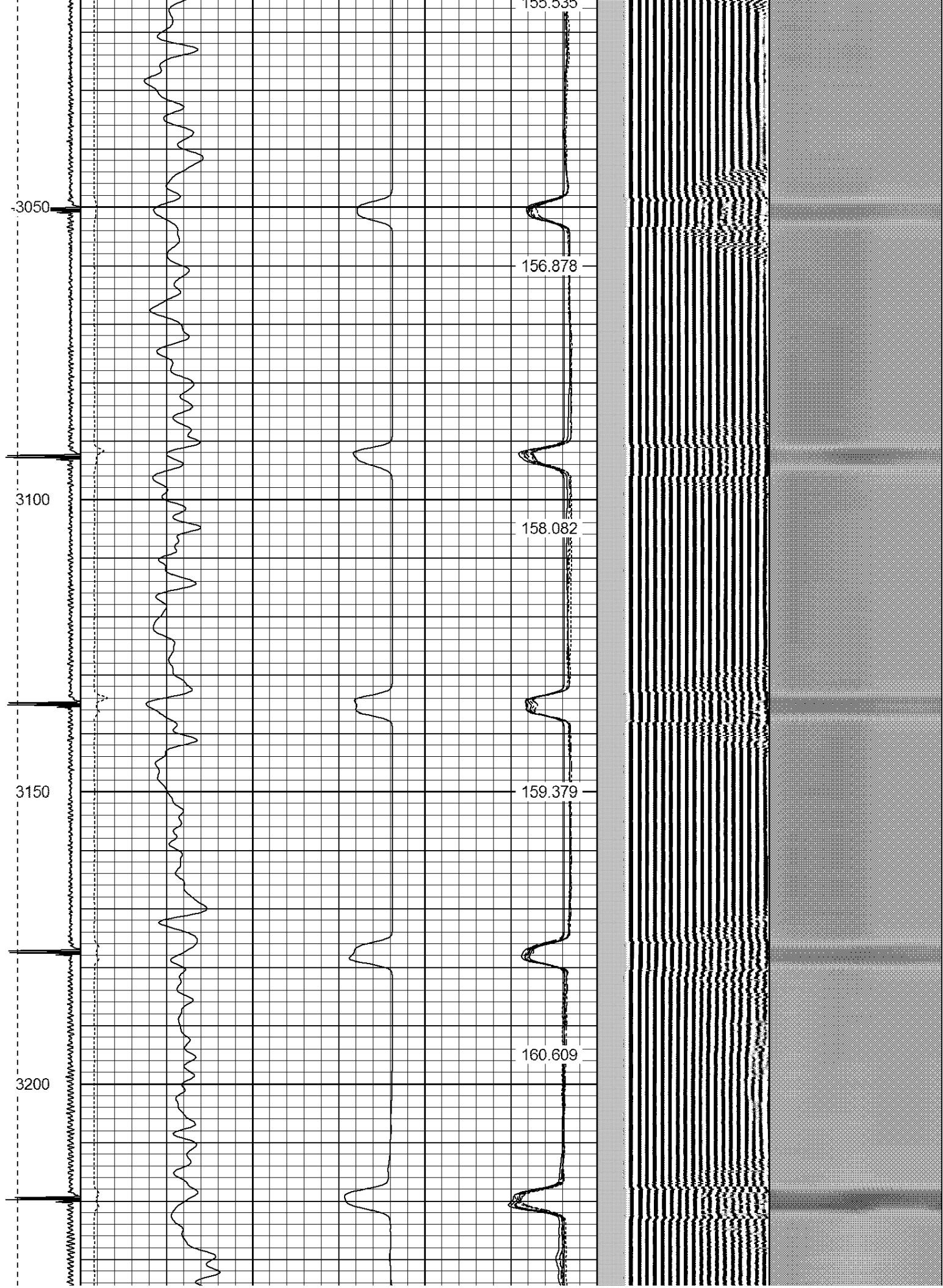


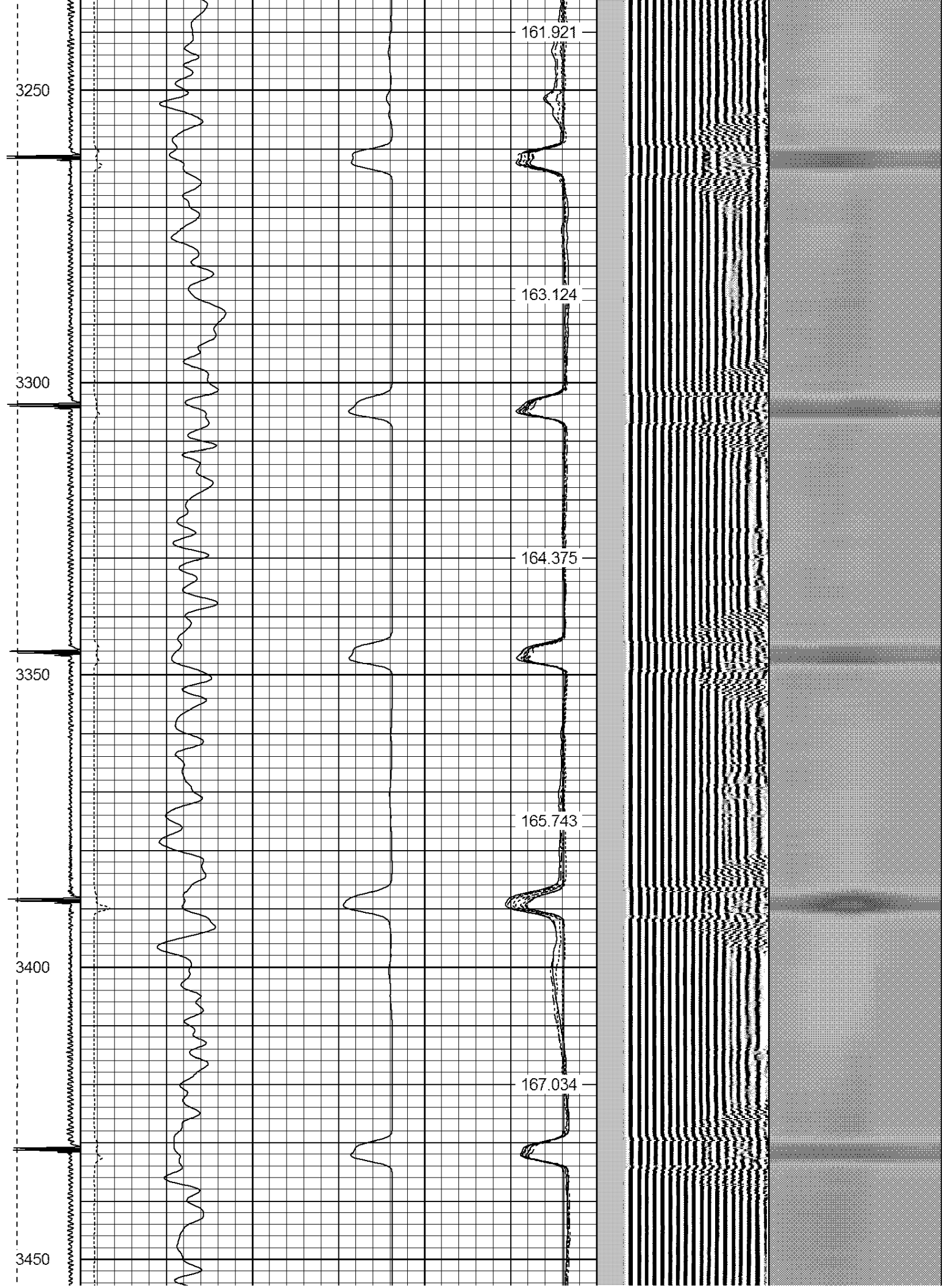


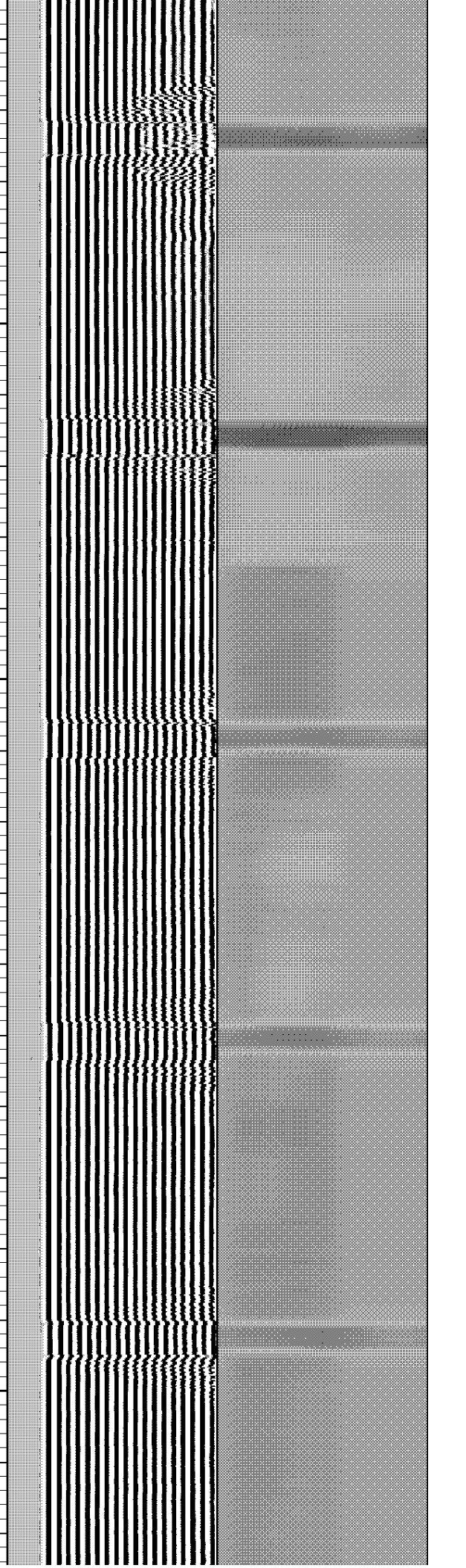
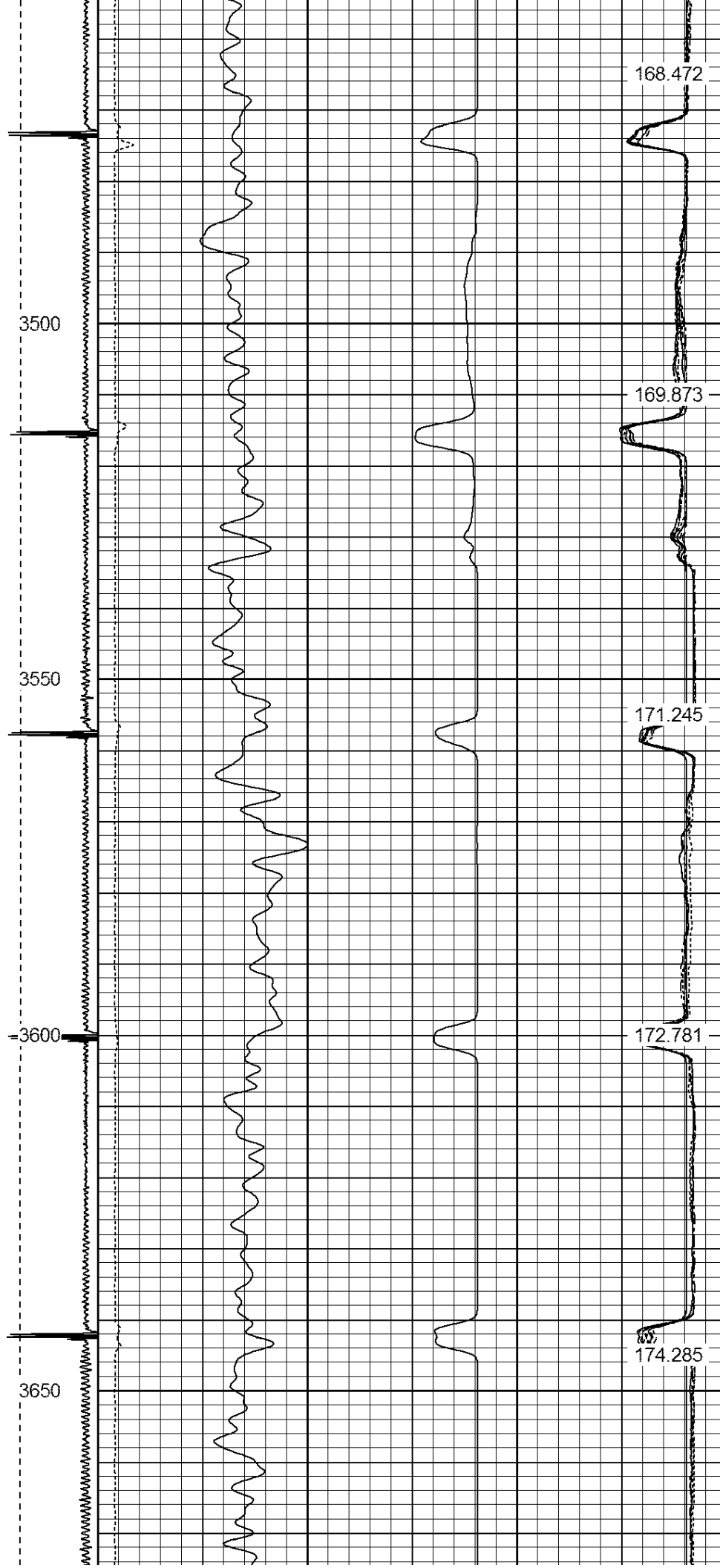


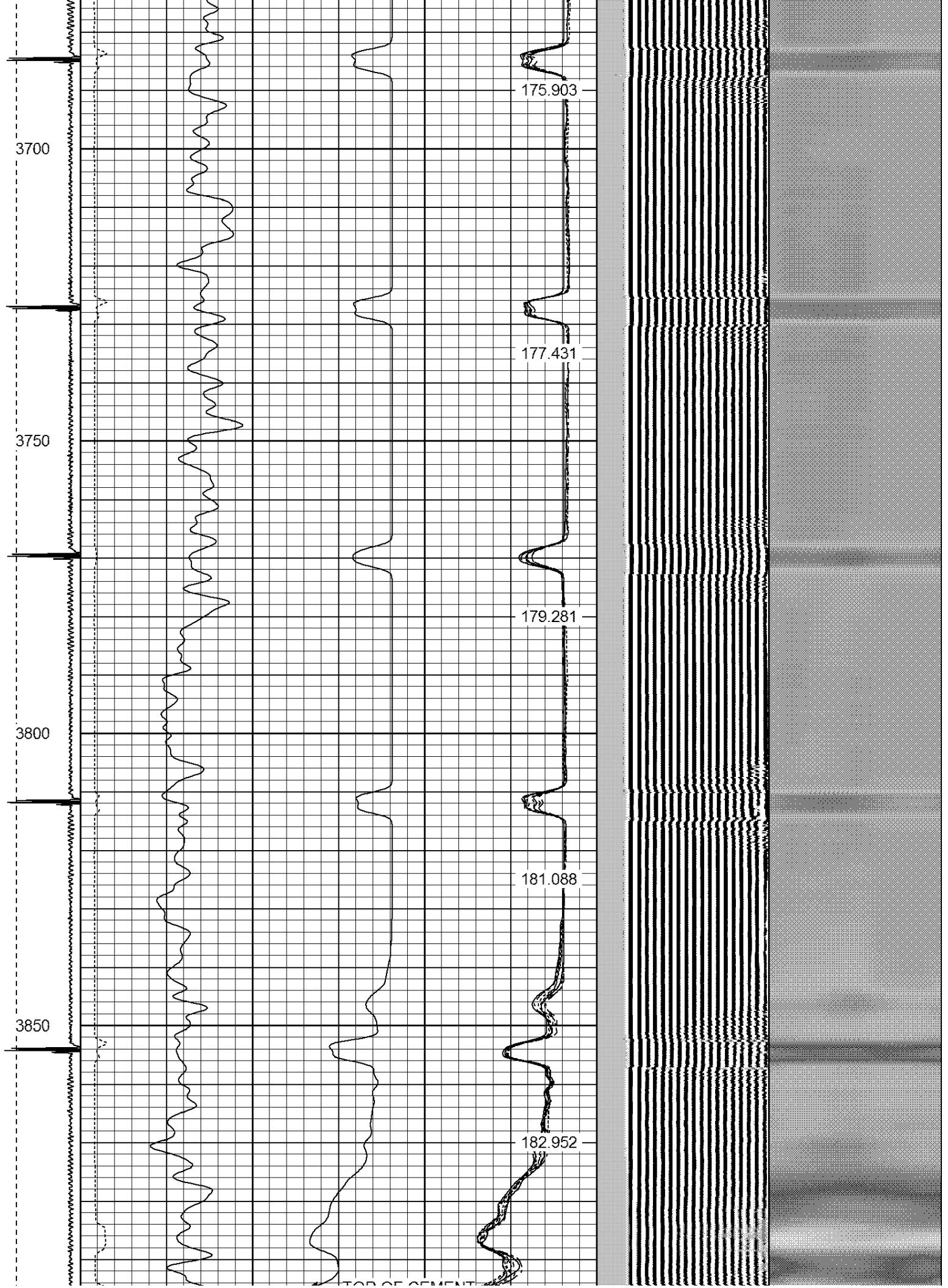












TOP OF CEMENT

3900

184.807

3950

186.334

4000

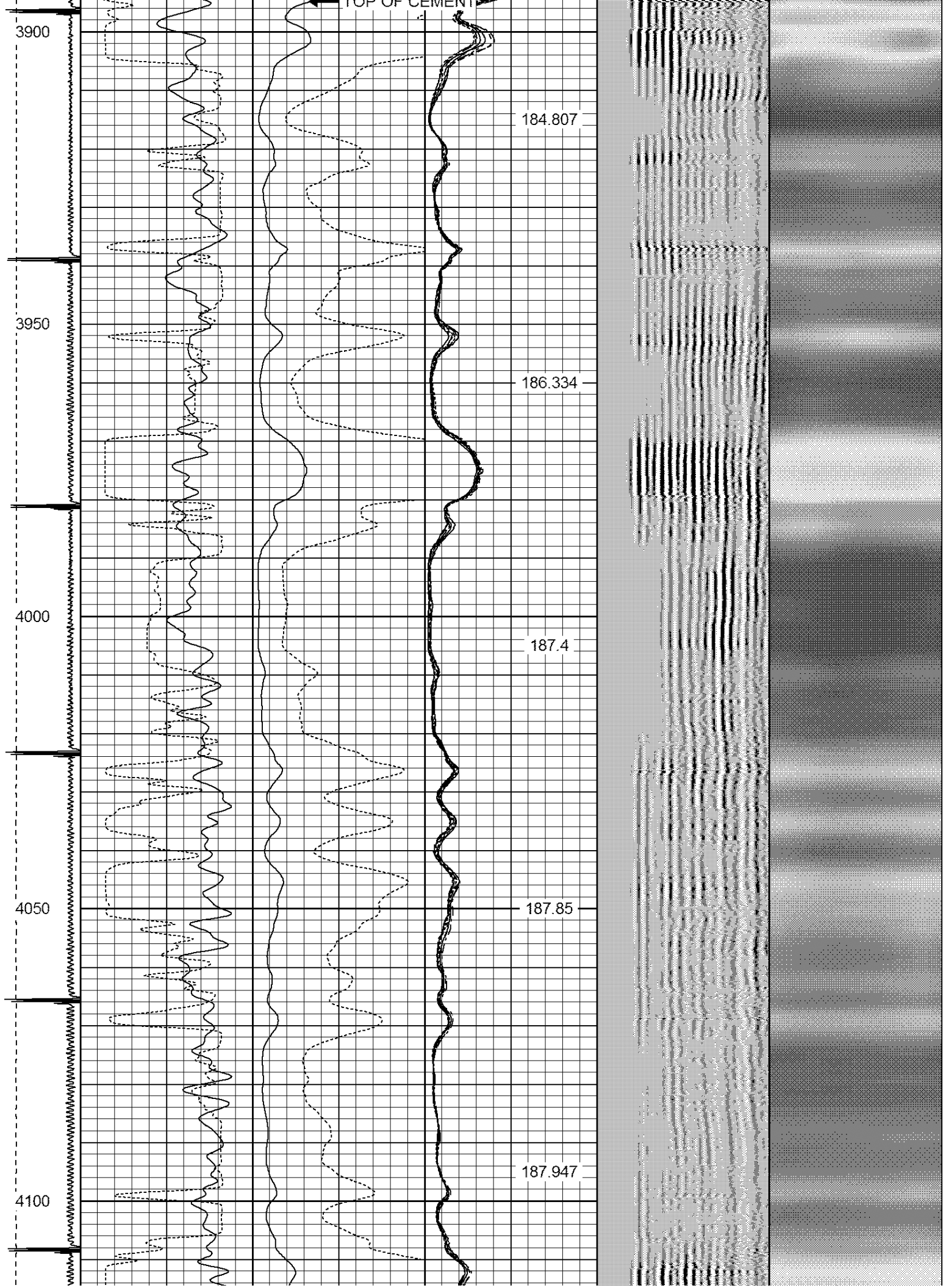
187.4

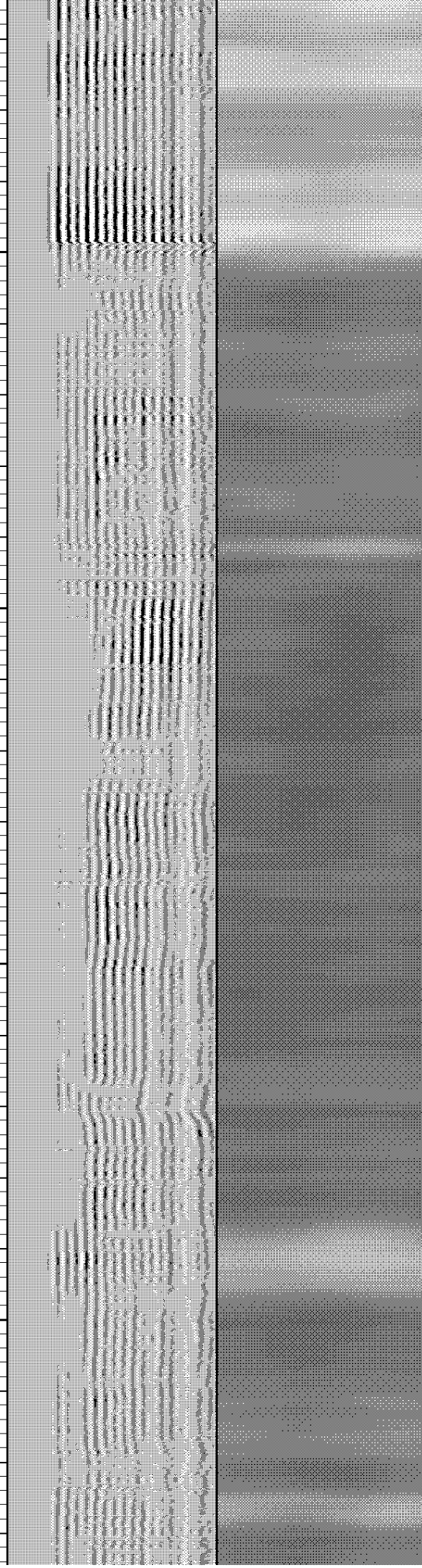
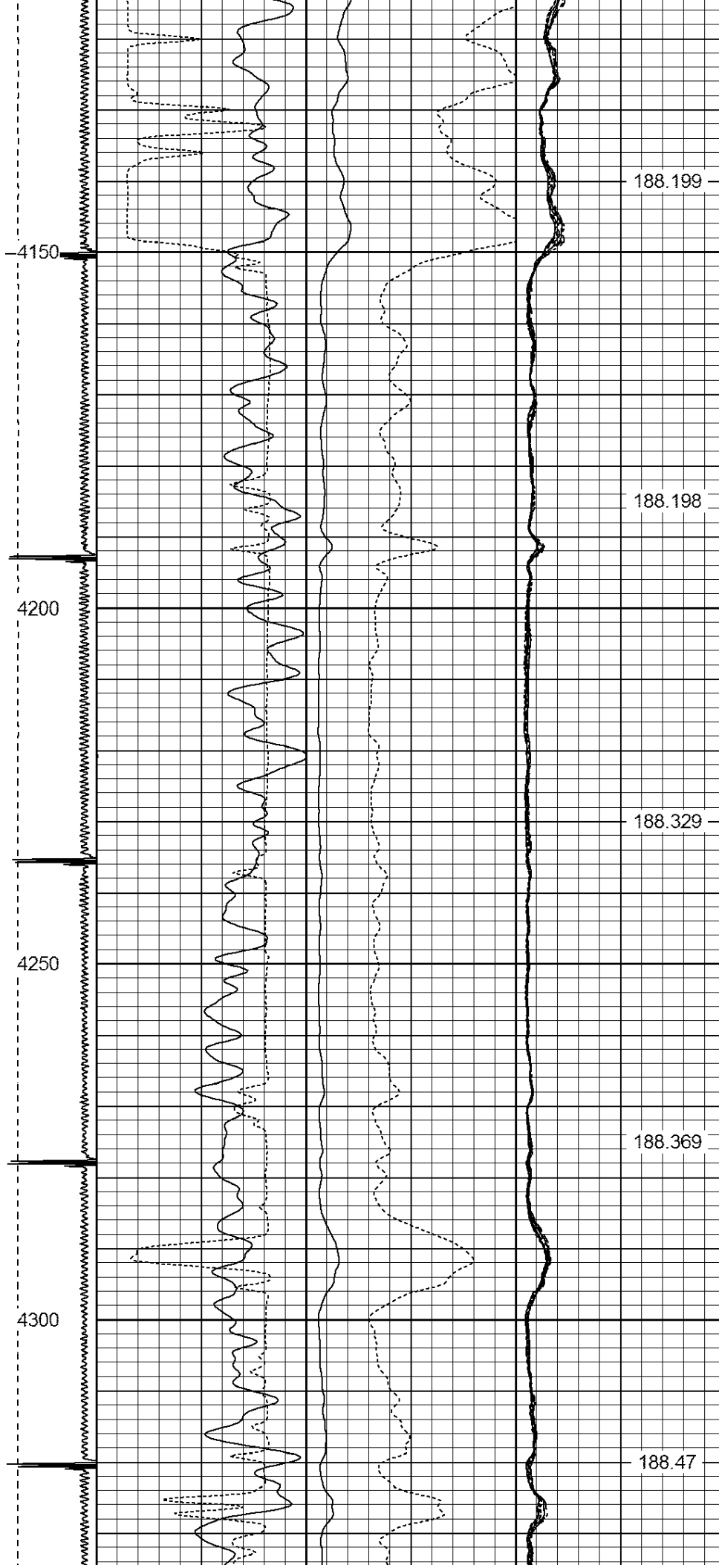
4050

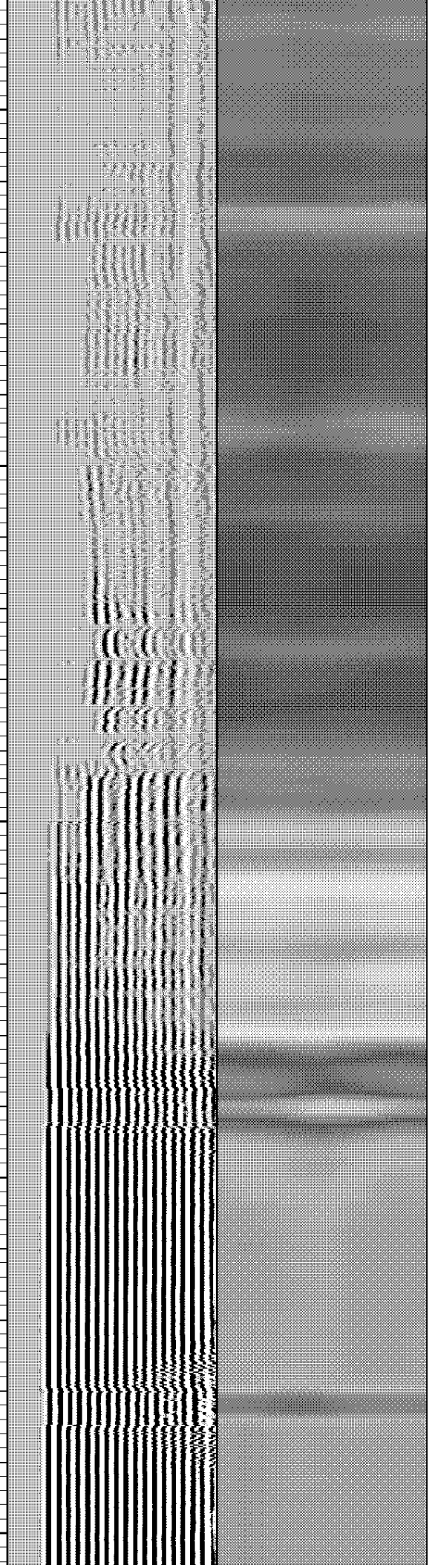
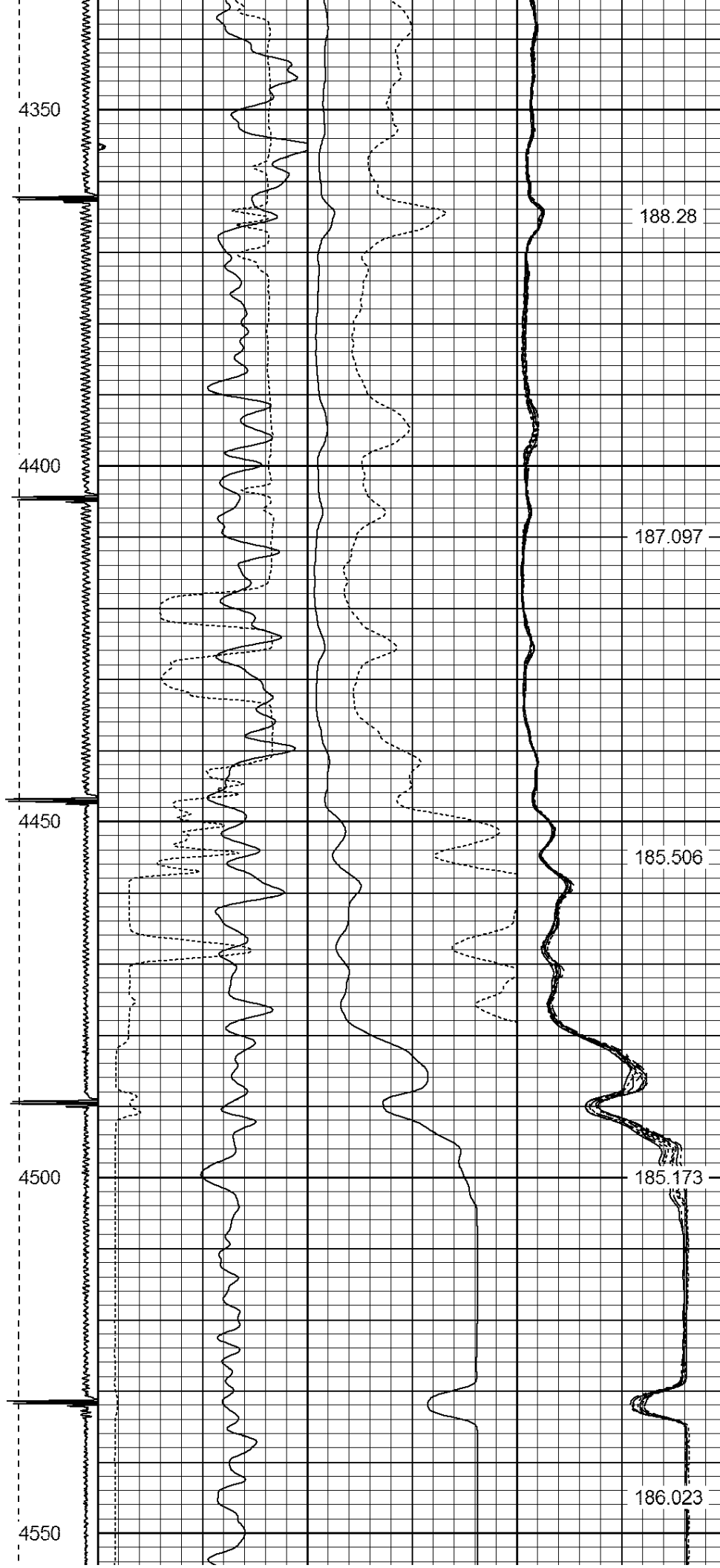
187.85

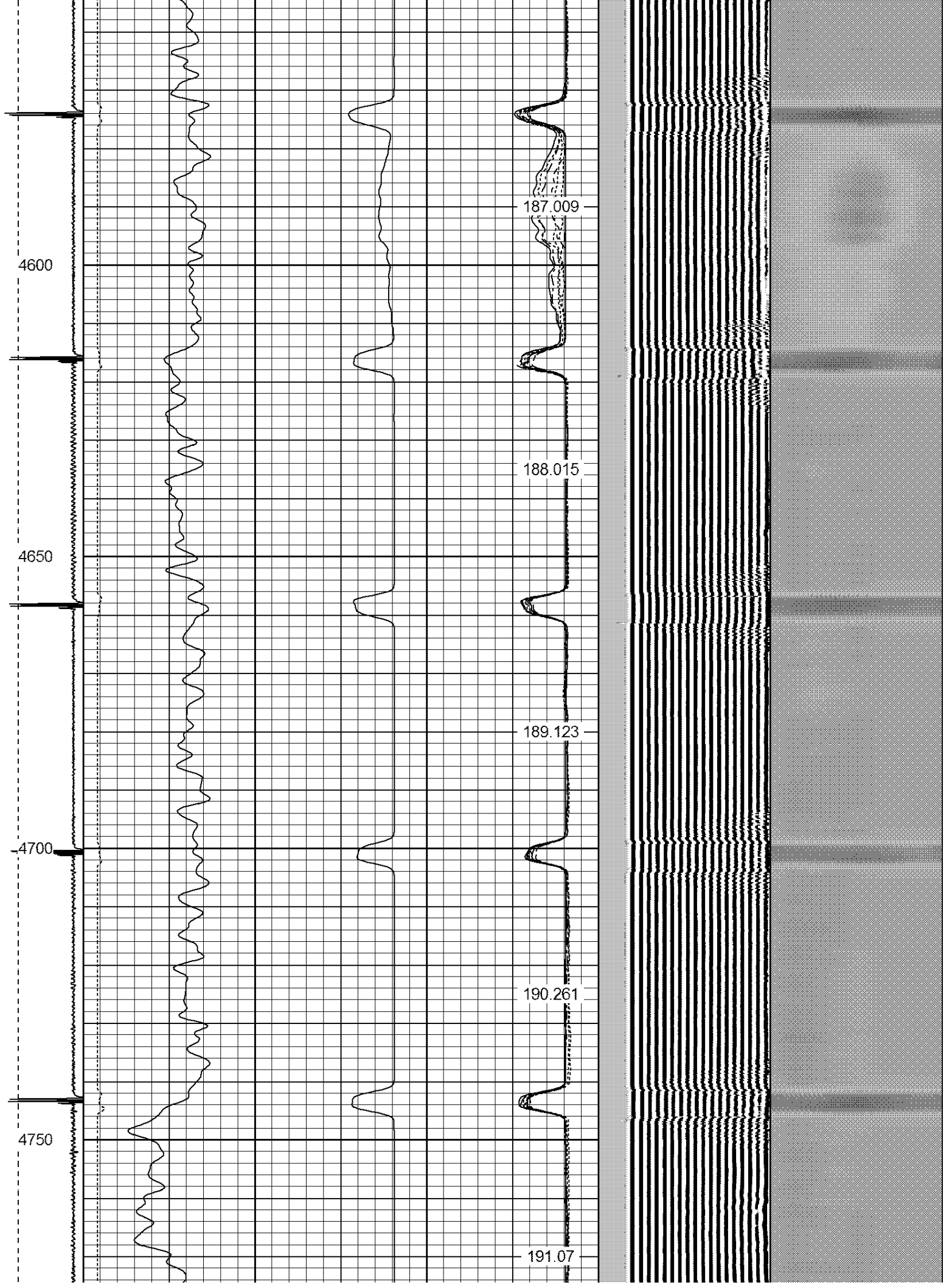
4100

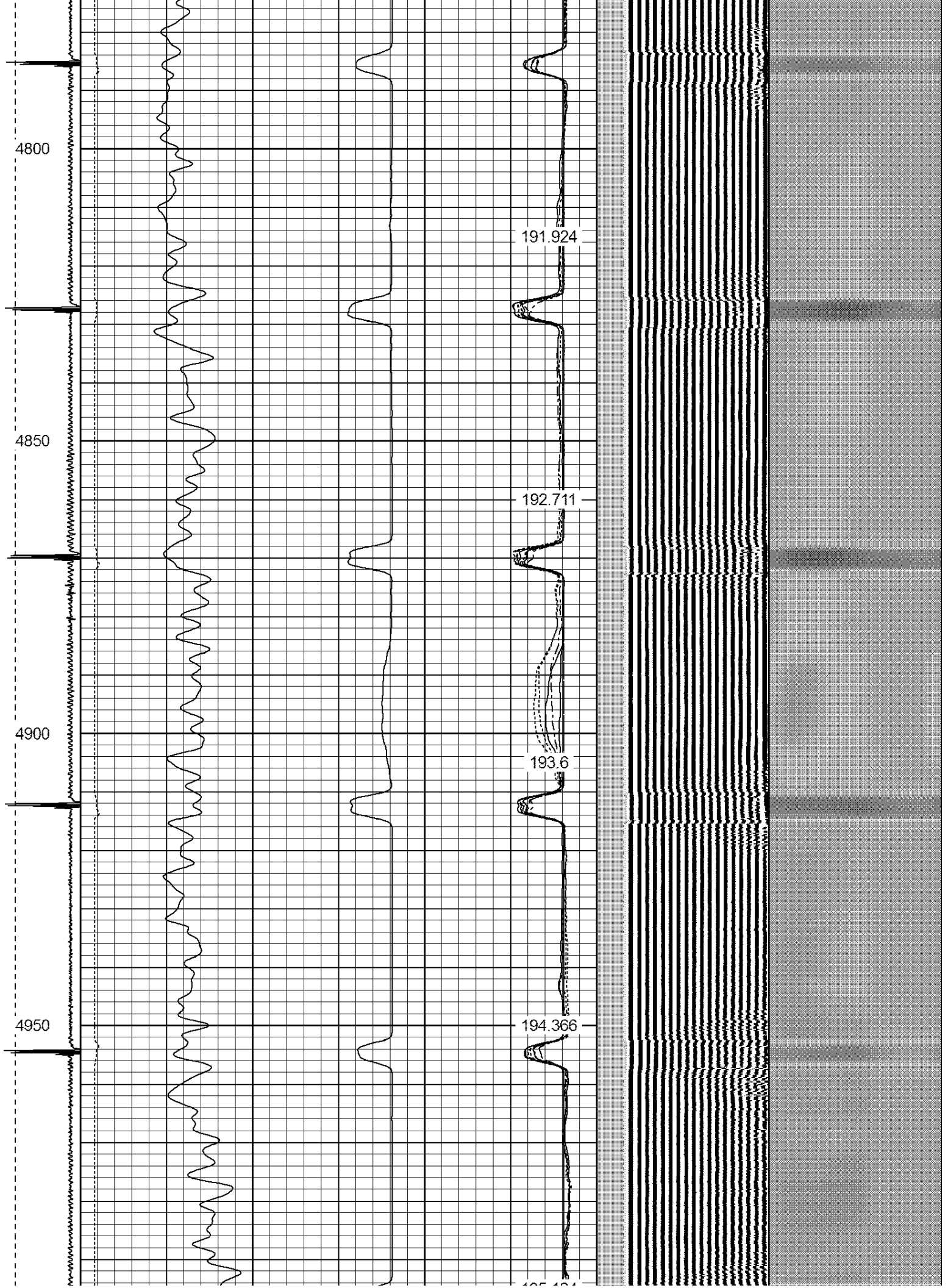
187.947

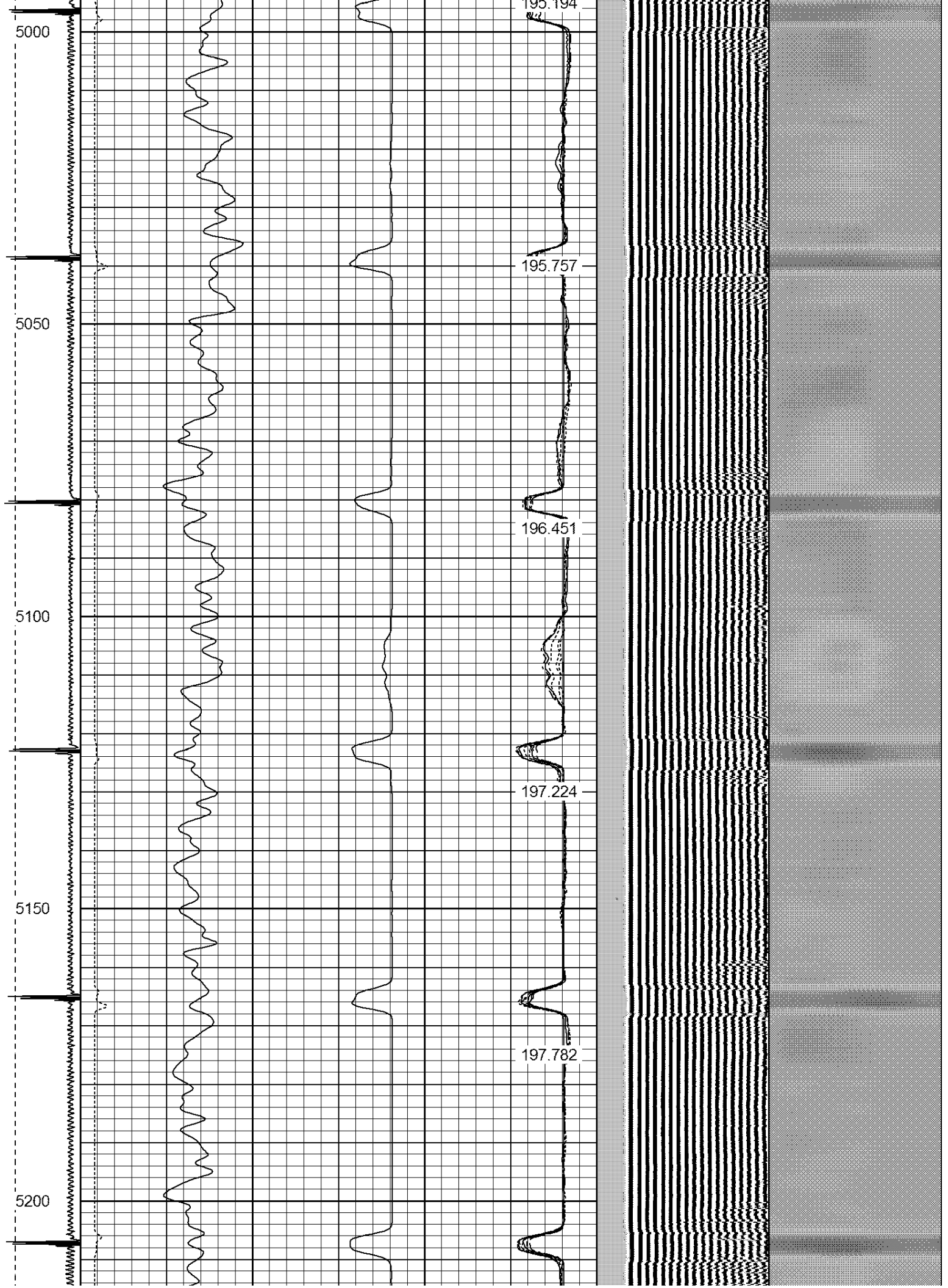


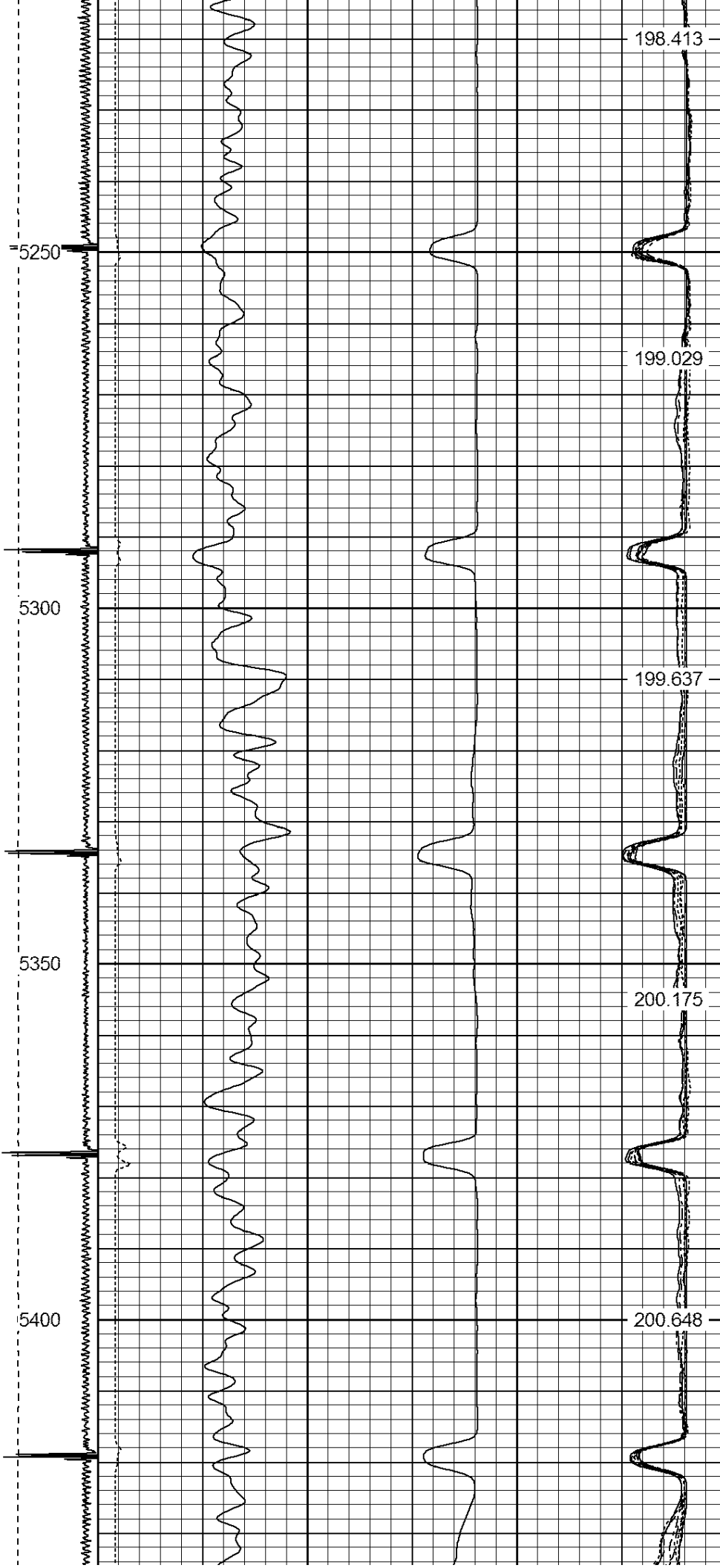












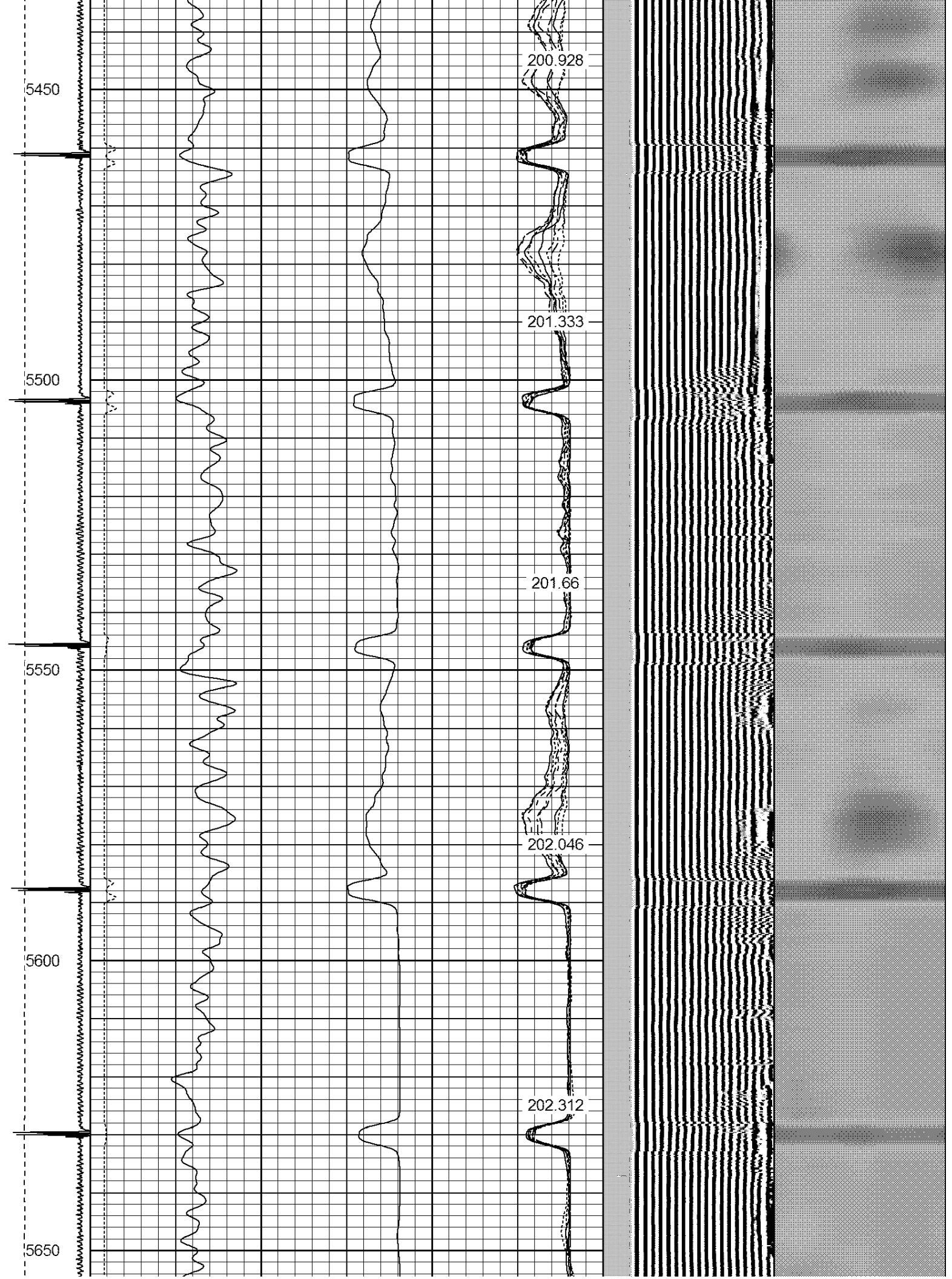
198.413

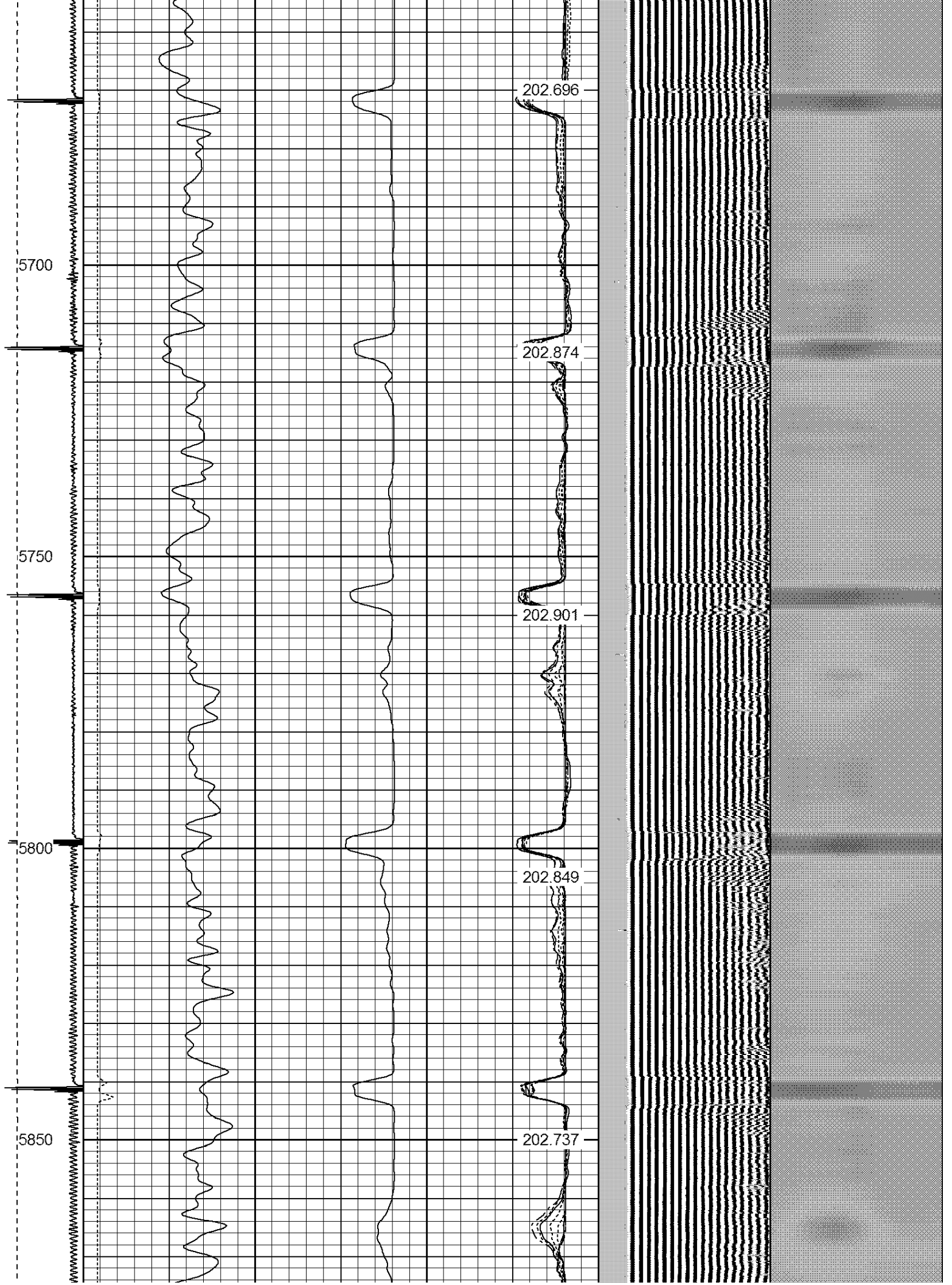
199.029

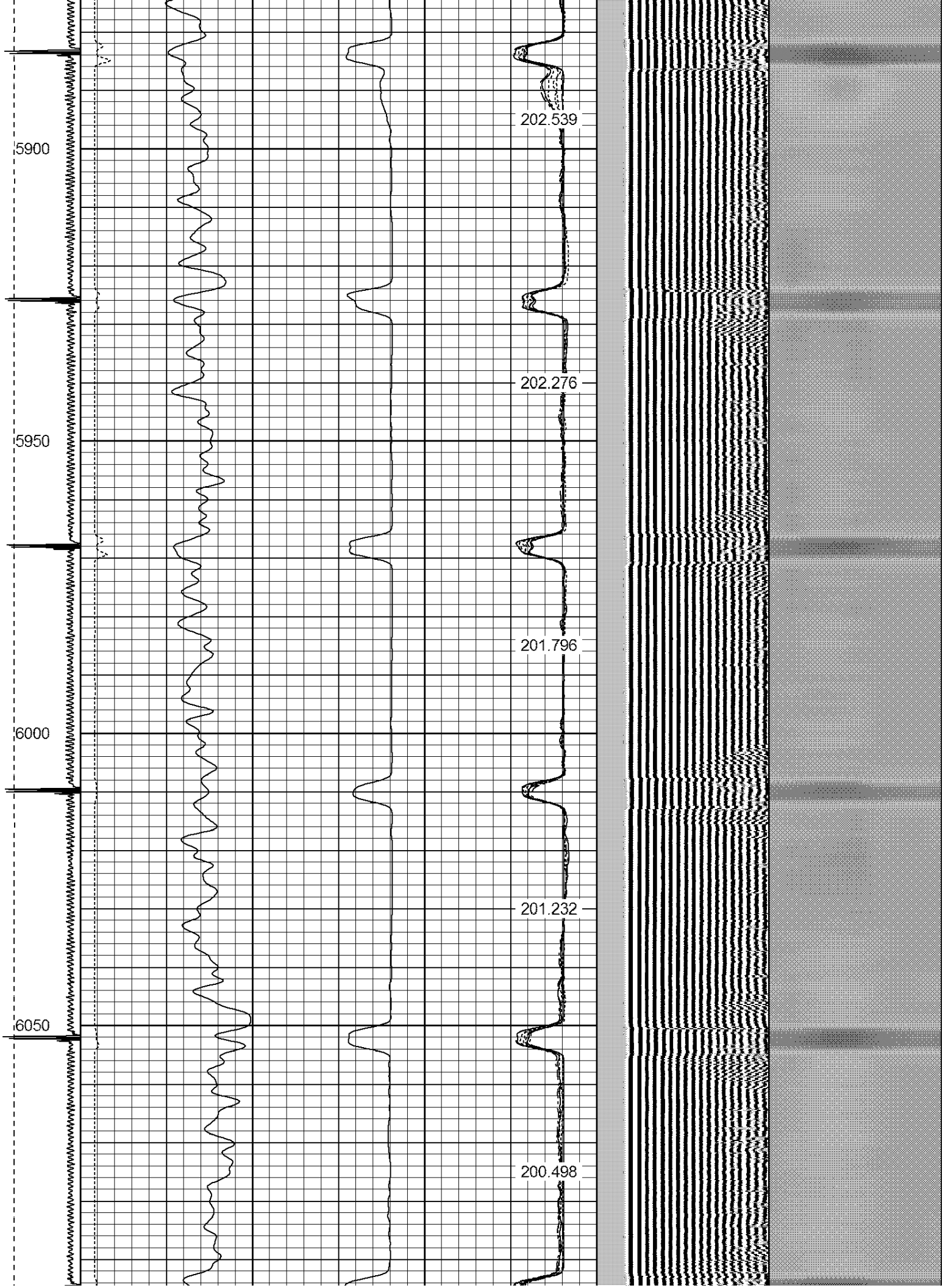
199.637

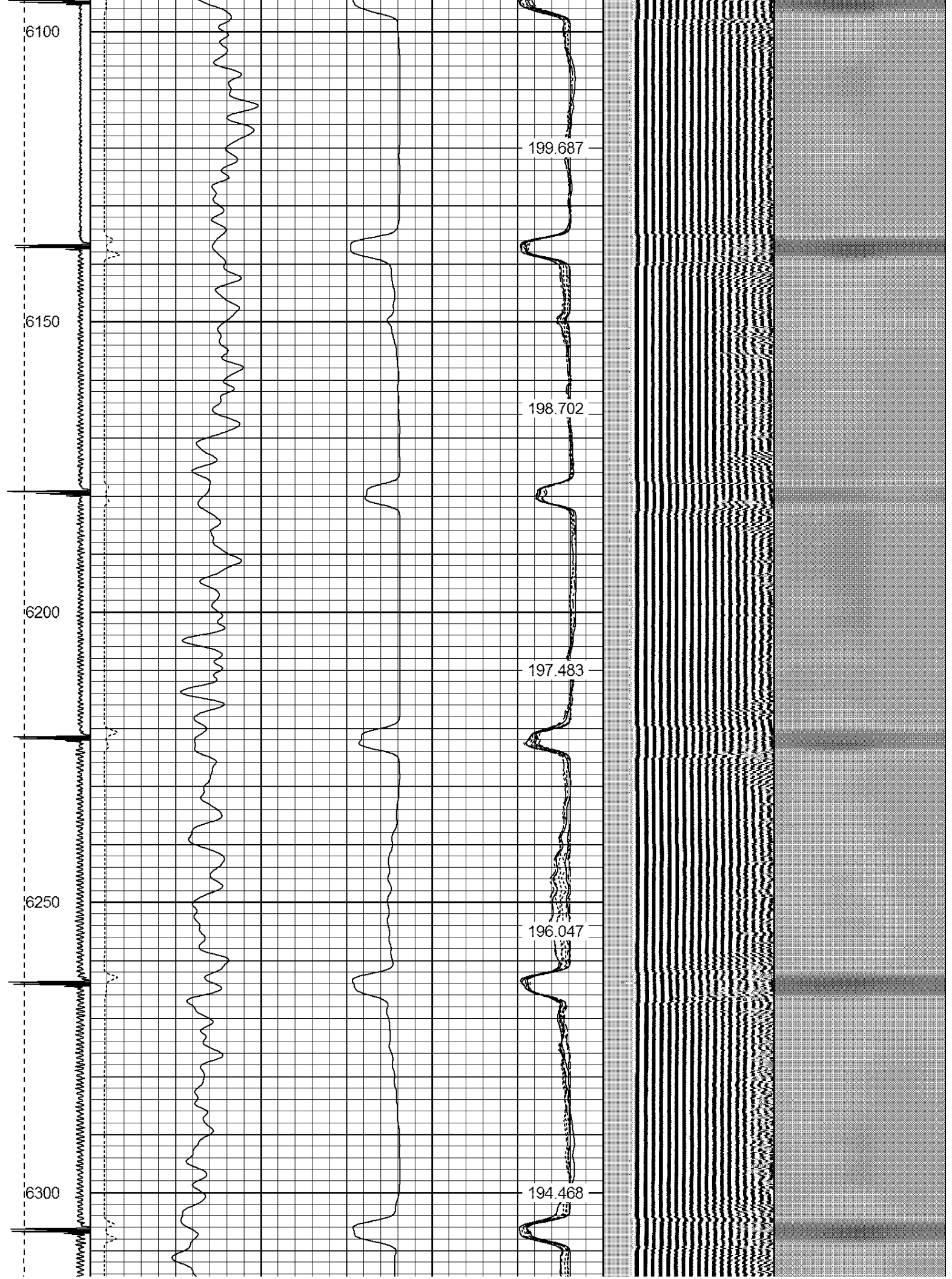
200.175

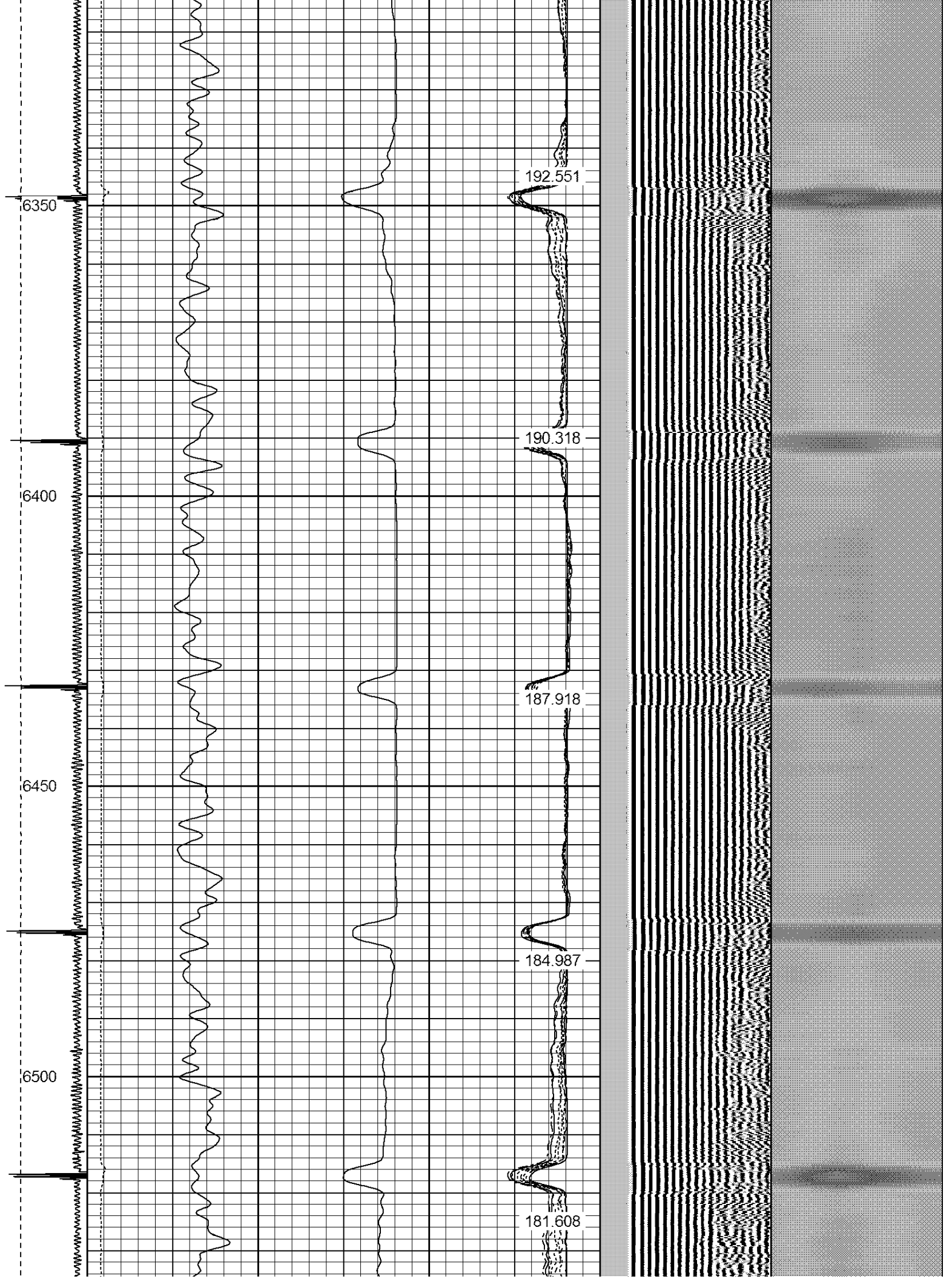
200.648

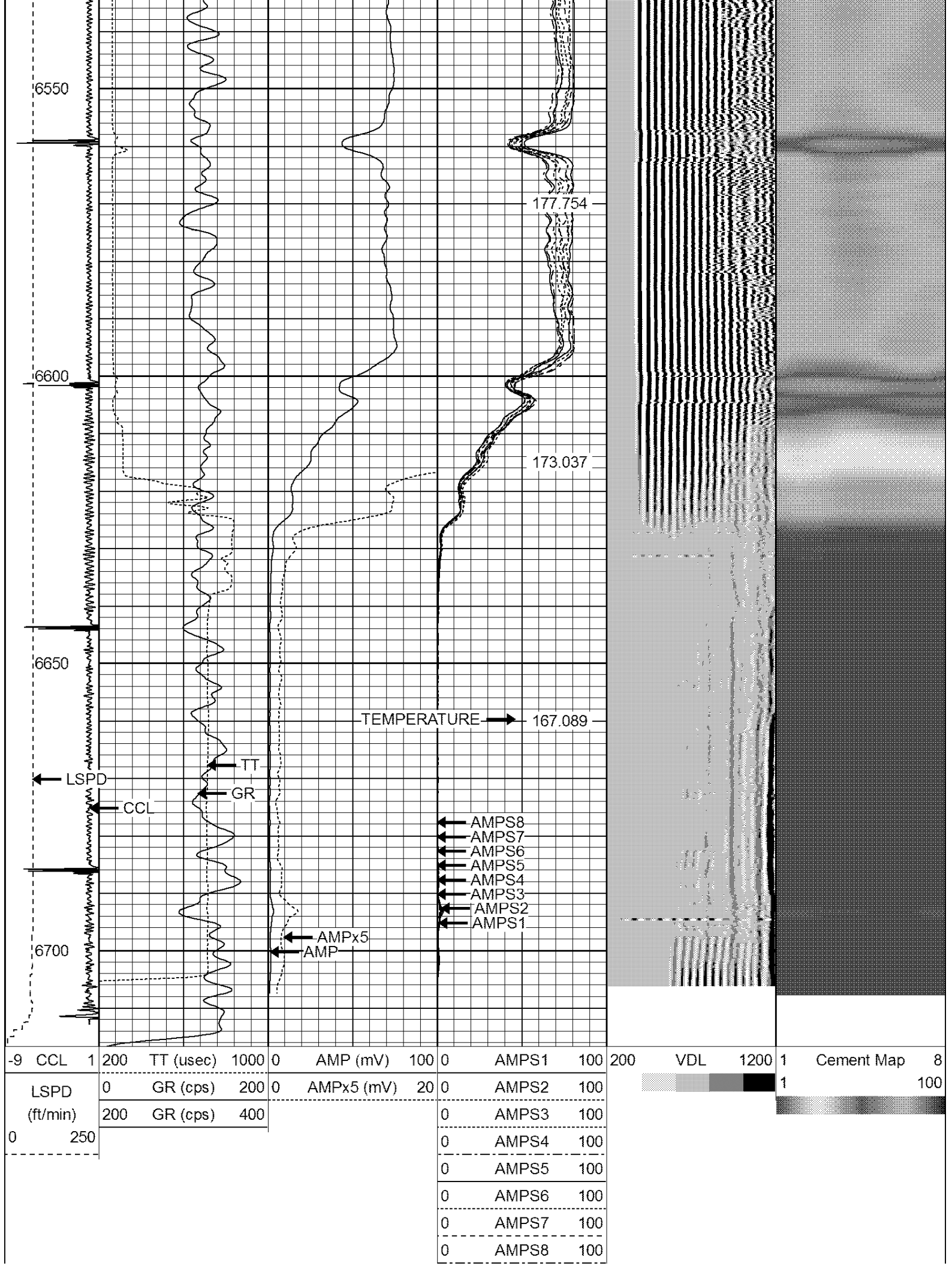












IntTemp
(degF)

Calibration Report

Database File: hsr streed 10-13.db
Dataset Pathname: pass7
Dataset Creation: Fri Oct 23 07:45:09 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 275
Tool Model: Probe
Performed: Wed Jul 16 08:14:01 2014

Calibrator Value: 120.0 cps

Background Reading: 30.0 cps
Calibrator Reading: 210.0 cps

Sensitivity: 1.1000 cps/cps

Compensated Neutron Calibration Report

Serial Number: 275
Tool Model: Probe_B

CALIBRATION Wed Jul 30 08:47:19 2008

Detector	Readings	Target	Normalization
Short Space	5001.20 cps	0.00 cps	1.0000
Long Space	1029.31 cps	0.00 cps	1.0000

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Segmented Cement Bond Log Calibration Report

Serial Number: Base
Tool Model: Probe

Calibration Casing Diameter: 4.500 in
Calibration Depth: 1564.336 ft

Master Calibration, performed Fri Oct 23 07:33:41 2015:

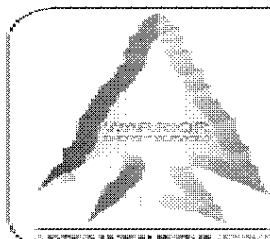
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	2.496	1.500	81.196	32.081	1.114
CAL	1.553	2.500				
5'	0.011	2.334	1.500	81.196	34.310	1.115
SUM						
S1	0.011	2.500	0.500	81.000	32.343	0.142
S2	0.012	2.374	0.500	81.000	34.077	0.104
S3	0.010	2.192	0.500	81.000	36.894	0.120
S4	0.010	2.249	0.500	81.000	35.956	0.124
S5	0.011	2.401	0.500	81.000	33.694	0.113
S6	0.010	2.500	0.500	81.000	32.335	0.163
S7	0.015	2.500	0.500	81.000	32.397	0.008
S8	0.012	2.500	0.500	81.000	32.349	0.127

Internal Reference Calibration, performed Tue Jun 05 07:53:42 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.553	2.500	1.000	0.000

Air Zero Calibration, performed Fri Oct 23 07:18:43 2015:

	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	



WARRIOR
ENERGY SERVICES

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