

**RADIAL BOND TOOL
GAMMA RAY
CCL**

Company CIVITAS
Well HURT 33-11
Field WATTENBURG
County WELD
State CO
Country USA

Location: API #: 05-123-21933
SEC 11 TWP 2N RGE 68W
Permanent Datum GL
Log Measured From KB 16'
Drilling Measured From GL
Elevation: 4860'
Other Services
K.B. ---
D.F. ---
G.L. 4860'

Date 6-JAN-2024

Run Number ONE
Depth Driller 7962'
Depth Logger 7200'
Bottom Logged Interval 7205'
Top Log Interval SURFACE
Open Hole Size 8.625'
Type Fluid WATER
Density / Viscosity N/A
Max. Recorded Temp. N/A
Estimated Cement Top ON ARRIVAL
Time Well Ready N/A
Time Logger on Bottom 7770
Equipment Number GREELEY CO
Location Wayne Wacker
Recorded By Robbie Dampier
Witnessed By

Borehole Record			Tubing Record				
Run Number	Bit	From	To	Size	Weight	From	To

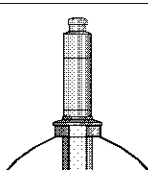
Casing Record
Surface String 8.625" Size Wgt/Ft 24# Top Bottom SURFACE 640'
Prot. String
Production String 4.5" 11.6# SURFACE 7946'
Liner

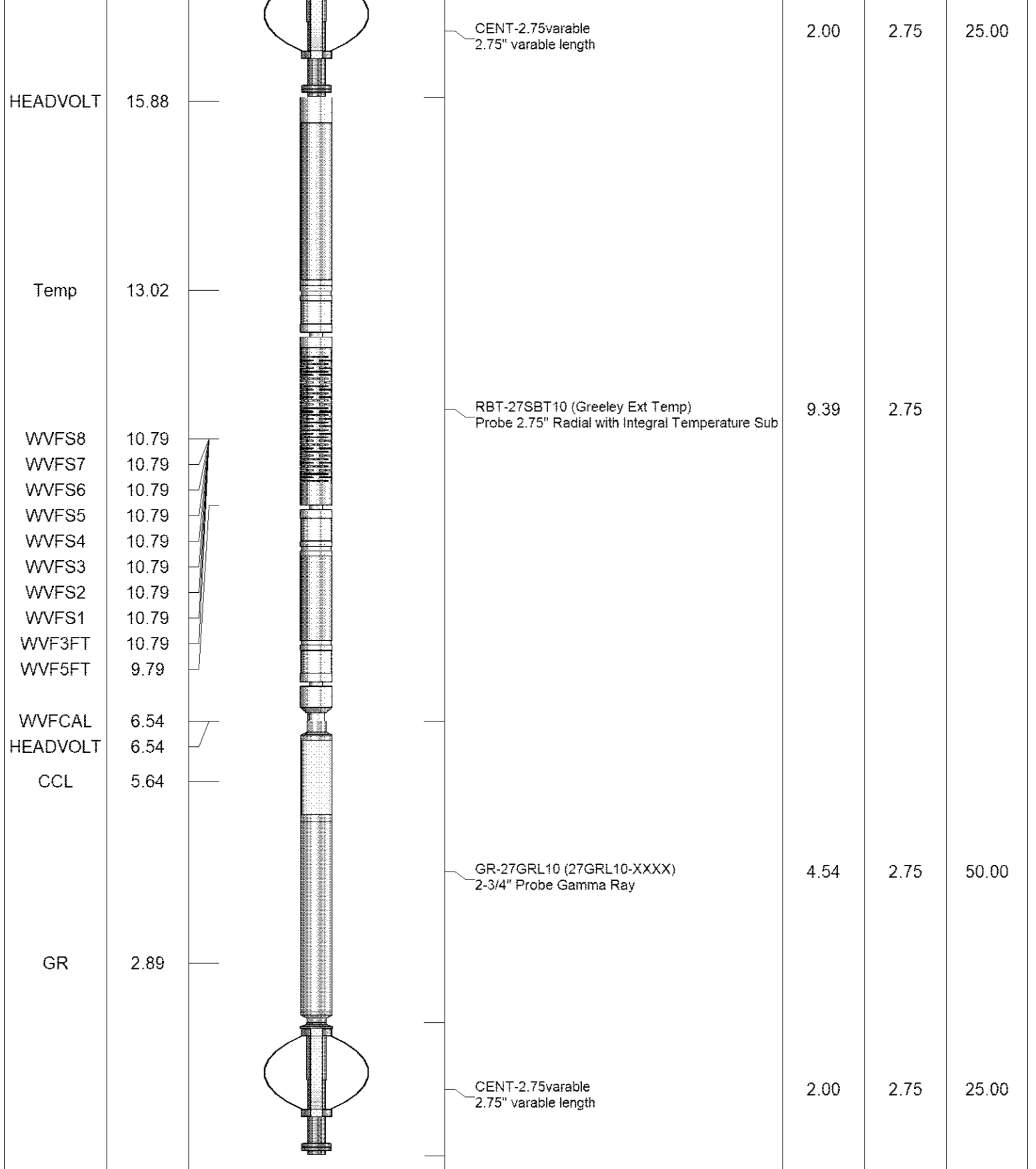
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

**RAN CBL TO VERIFY CEMENT BOND
WELL LOADED ON ARRIVAL
CORRELATED TO KB AT 16 FEET**

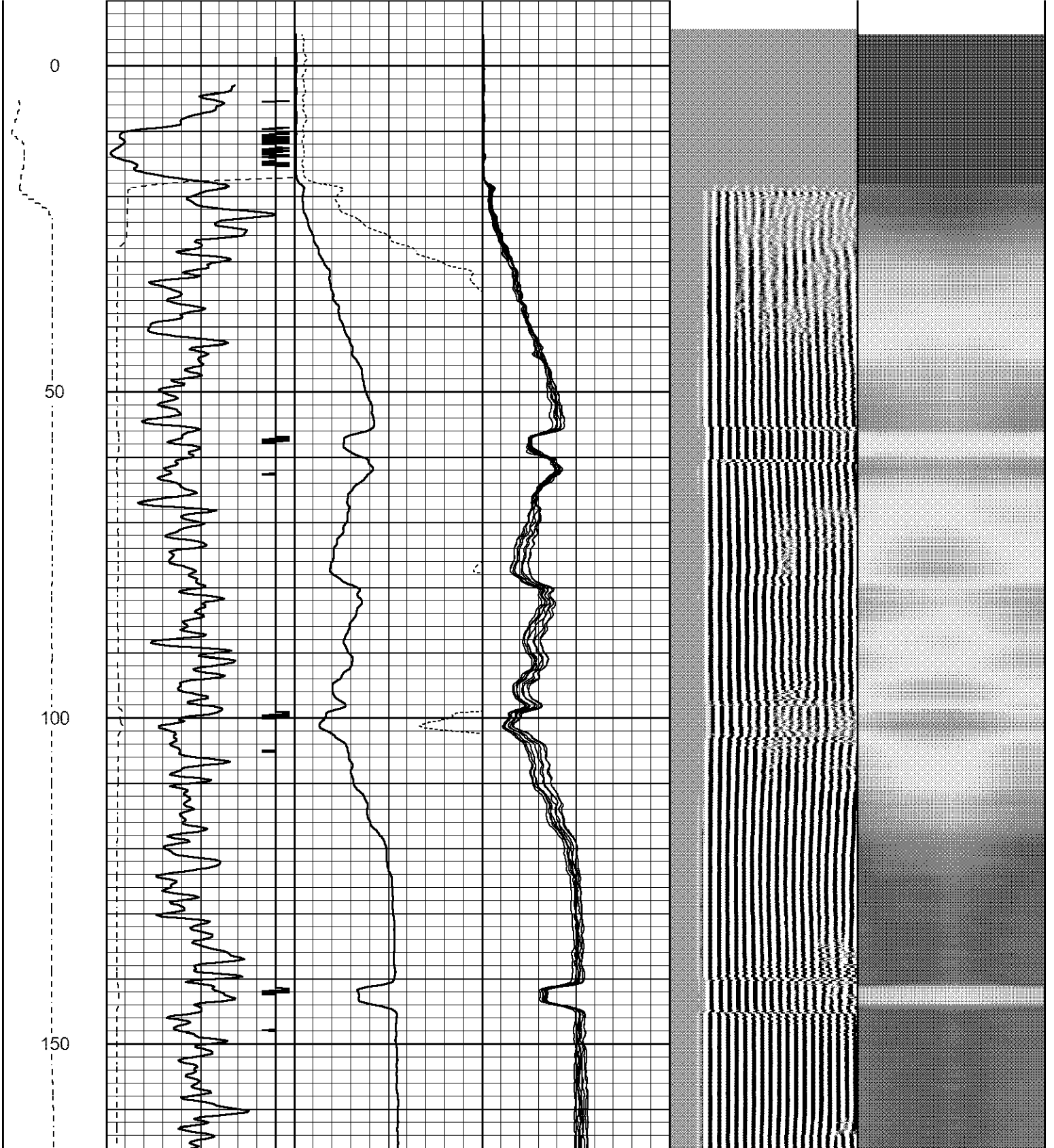
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1_7/16_Cabehead 1 7/16 Cablehead	1.00	1.44	5.00



Dataset: civ-hurt_33-11-cbl.db: field/well/cbl-/m
 Total length: 18.93 ft
 Total weight: 105.00 lb
 O.D.: 2.75 in

Database File: civ-hurt_33-11-cbl.db
 Dataset Pathname: cbl-/main
 Presentation Format: ips_rbtcolorcivitas2
 Dataset Creation: Tue Feb 06 11:45:46 2024
 Charted by: Depth in Foot scaled 1:240

LSPD	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL (usec)	1200	1	Cement Map	8
(ft/min)	-9	CCL	1	0	AMP3FT (mV)	20	0	AMPS2	100						
0	-250	GR (GAPI)	150					AMPS3	100						
		GR (GAPI)	400					AMPS4	100						
								AMPS5	100						
								AMPS6	100						
								AMPS7	100						
								AMPS8	100						

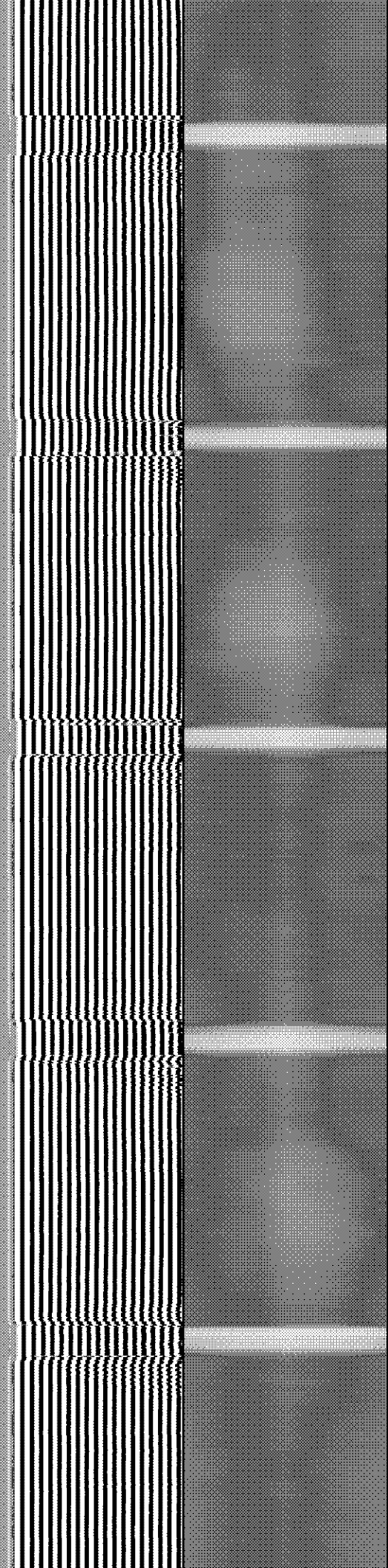
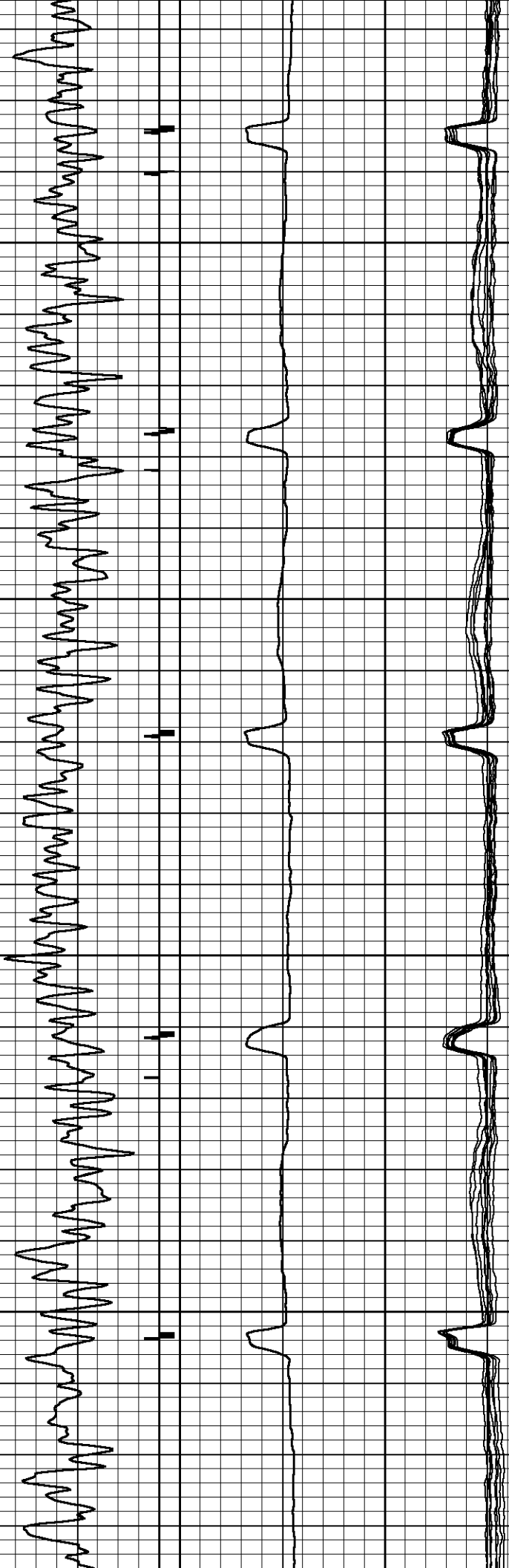


200

250

300

350



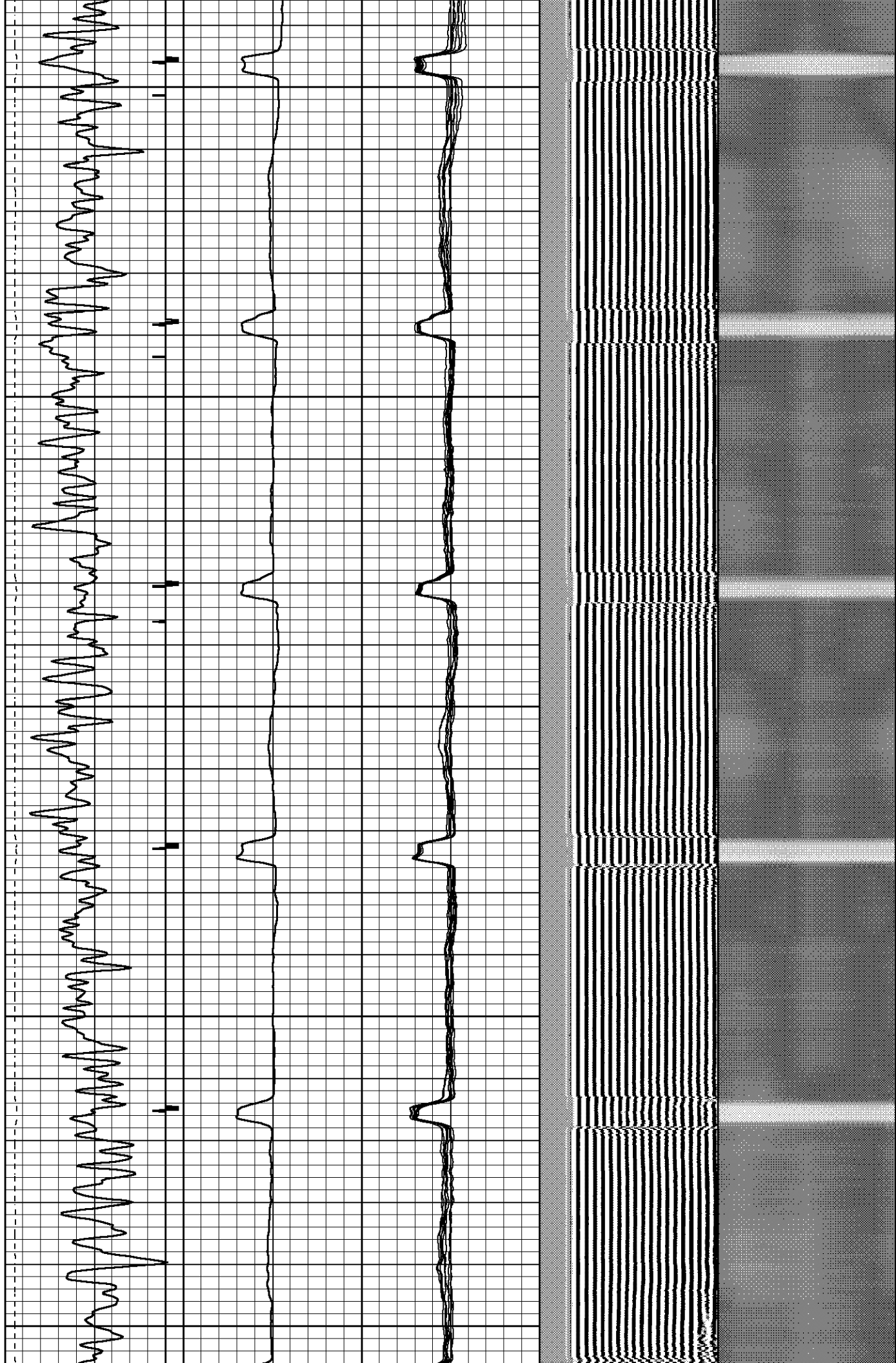
400

450

500

550

600

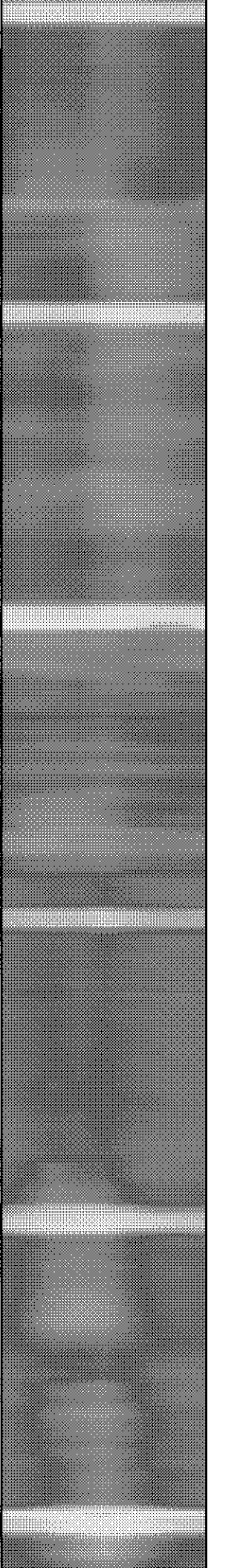
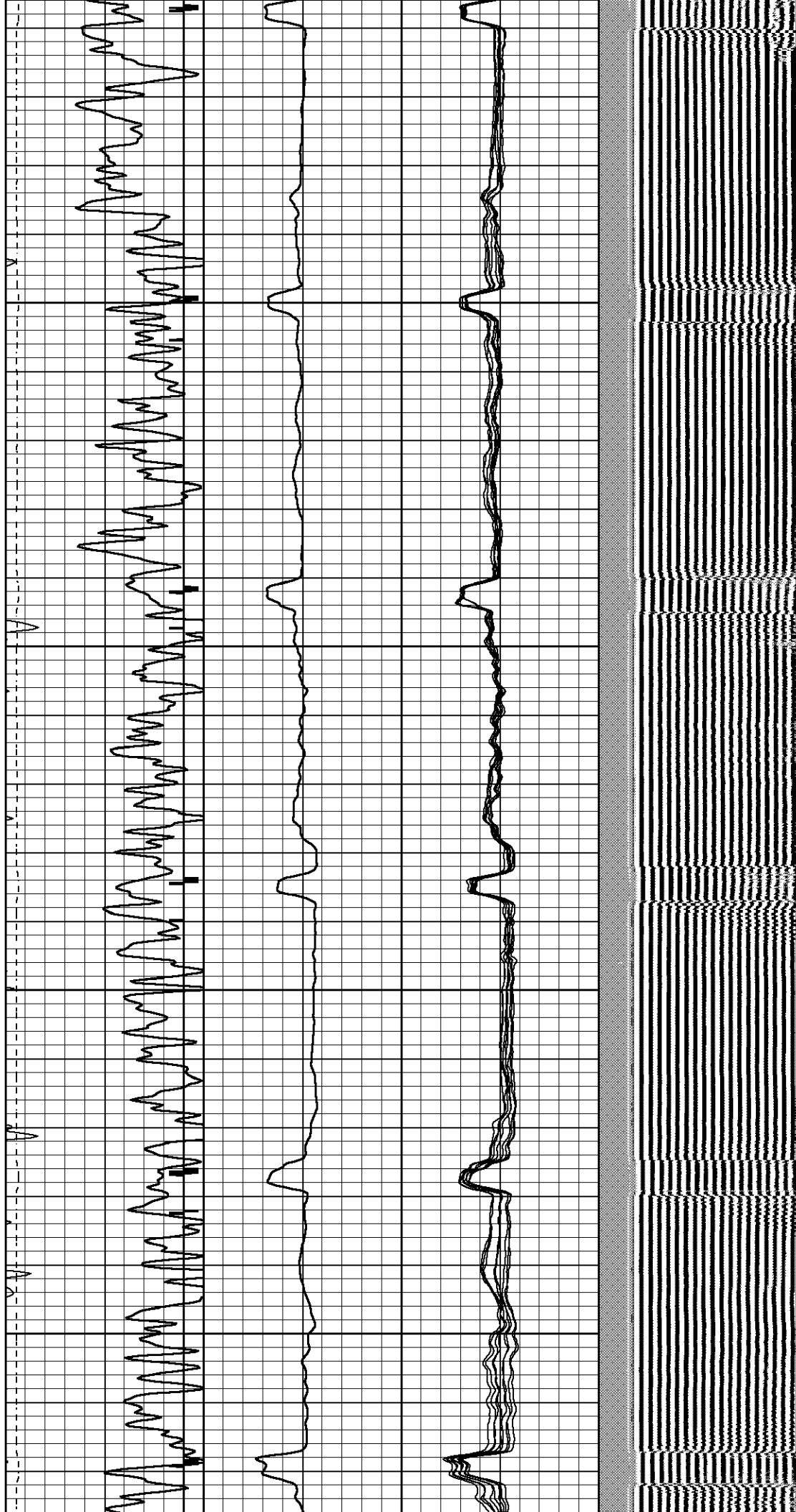


650

700

750

800

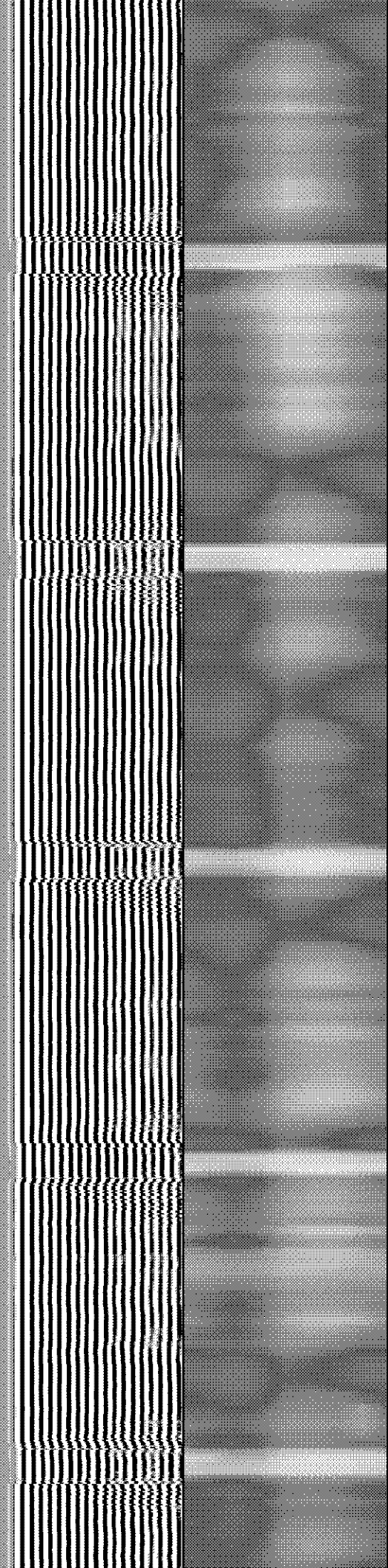
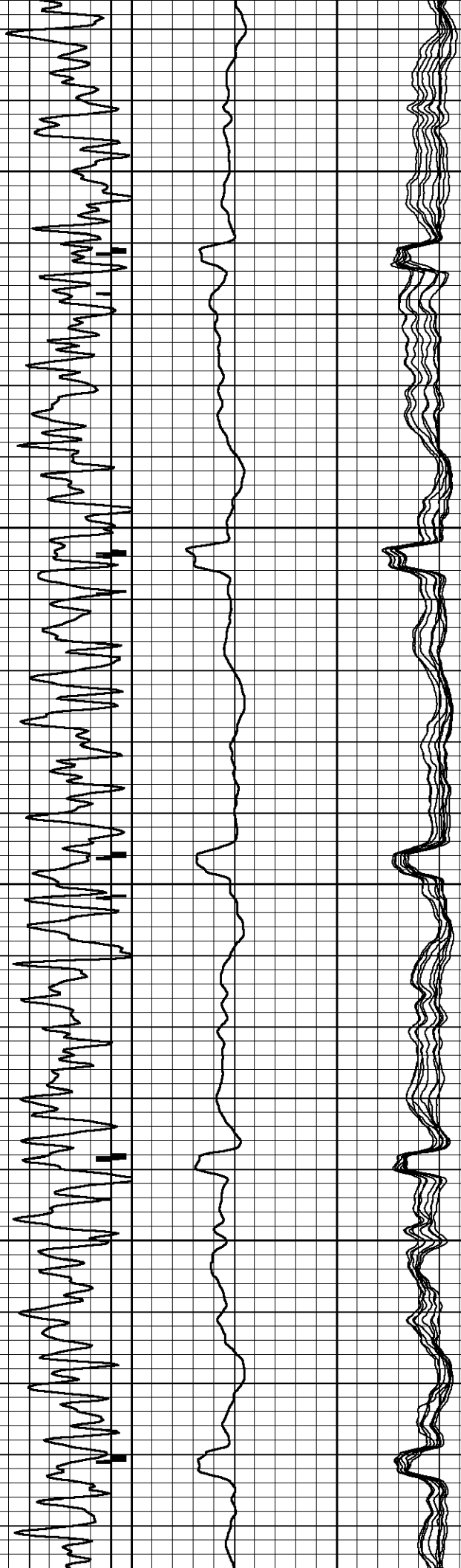


850

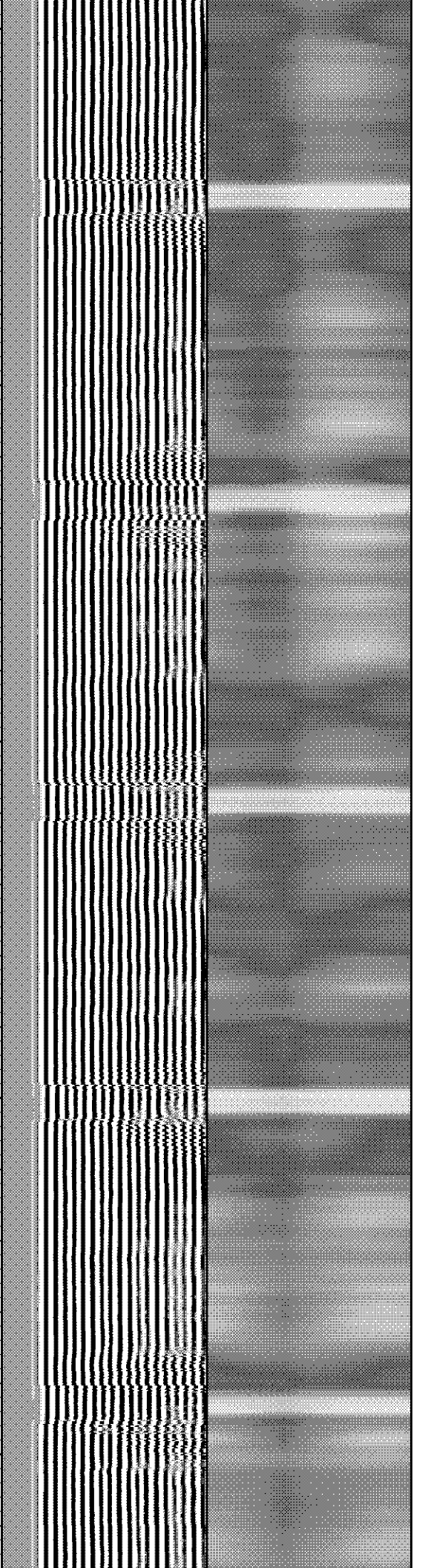
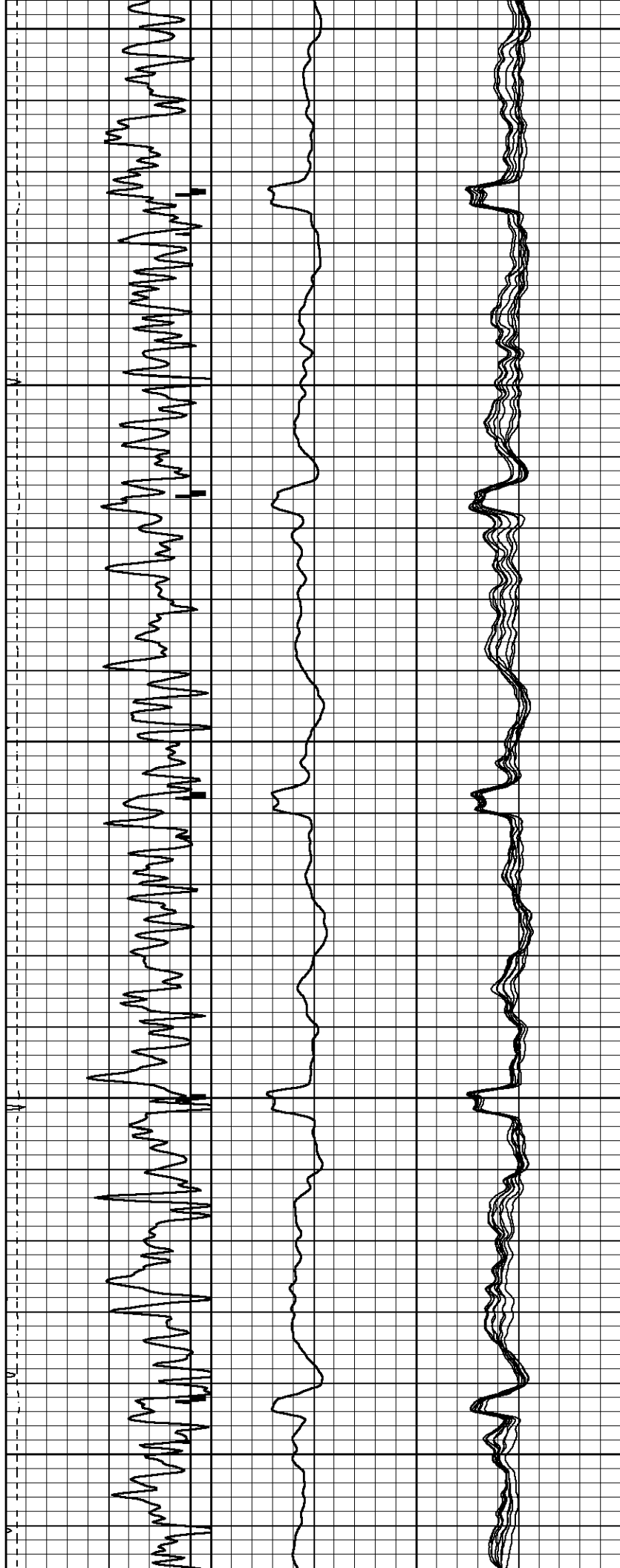
900

950

1000



1050
1100
1150
1200
1250

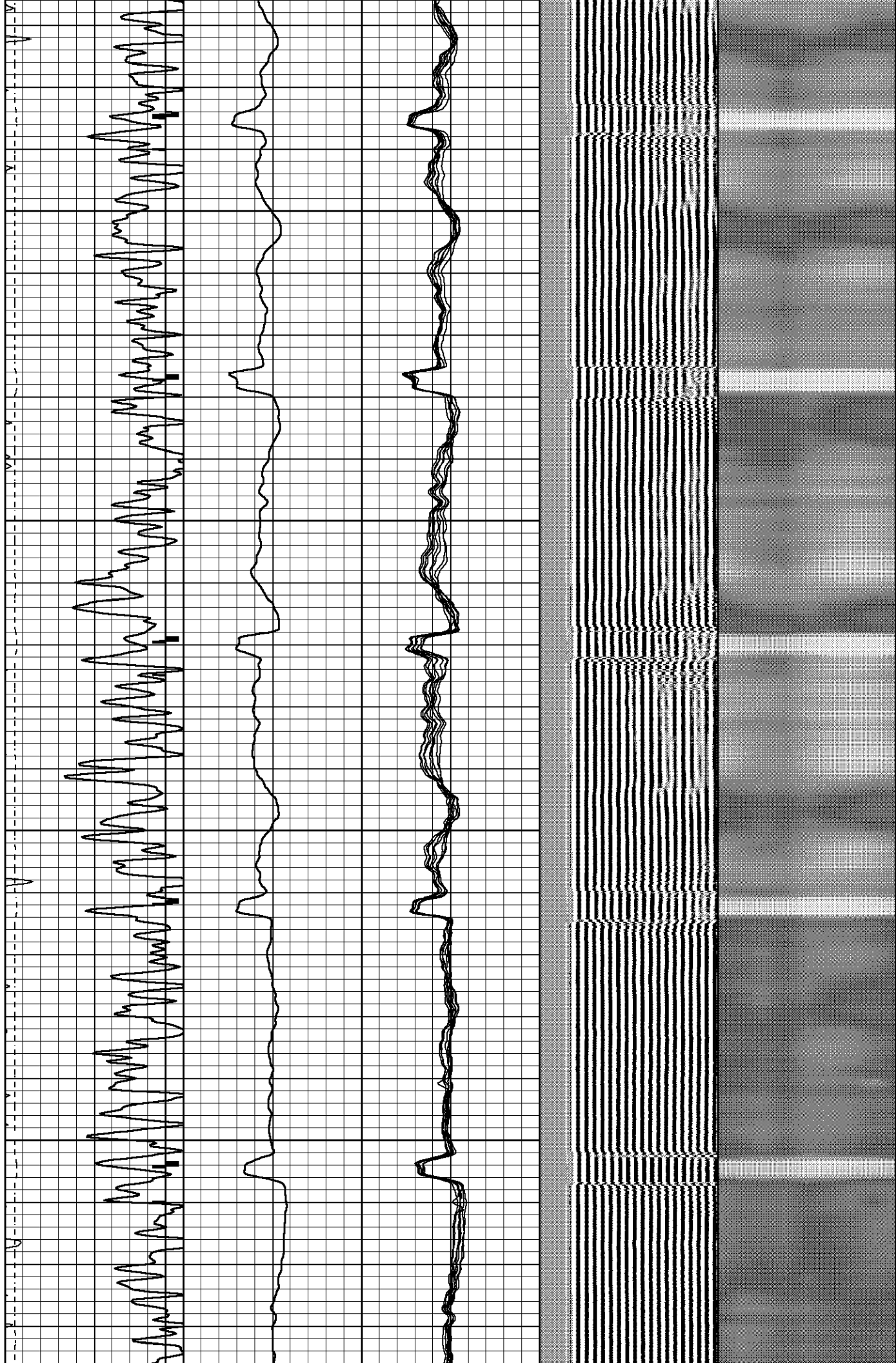


1300

1350

1400

1450



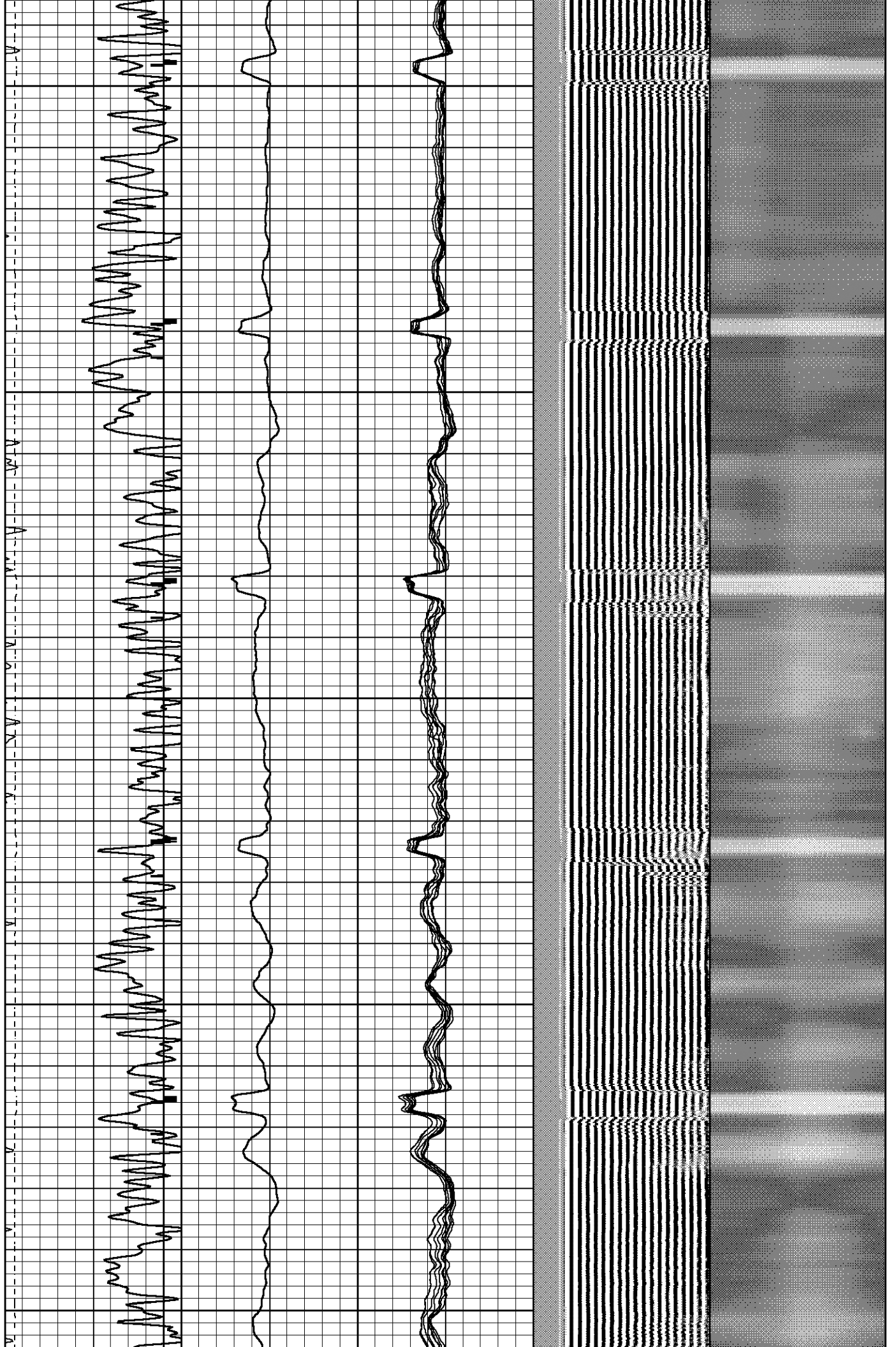
1500

1550

1600

1650

1700

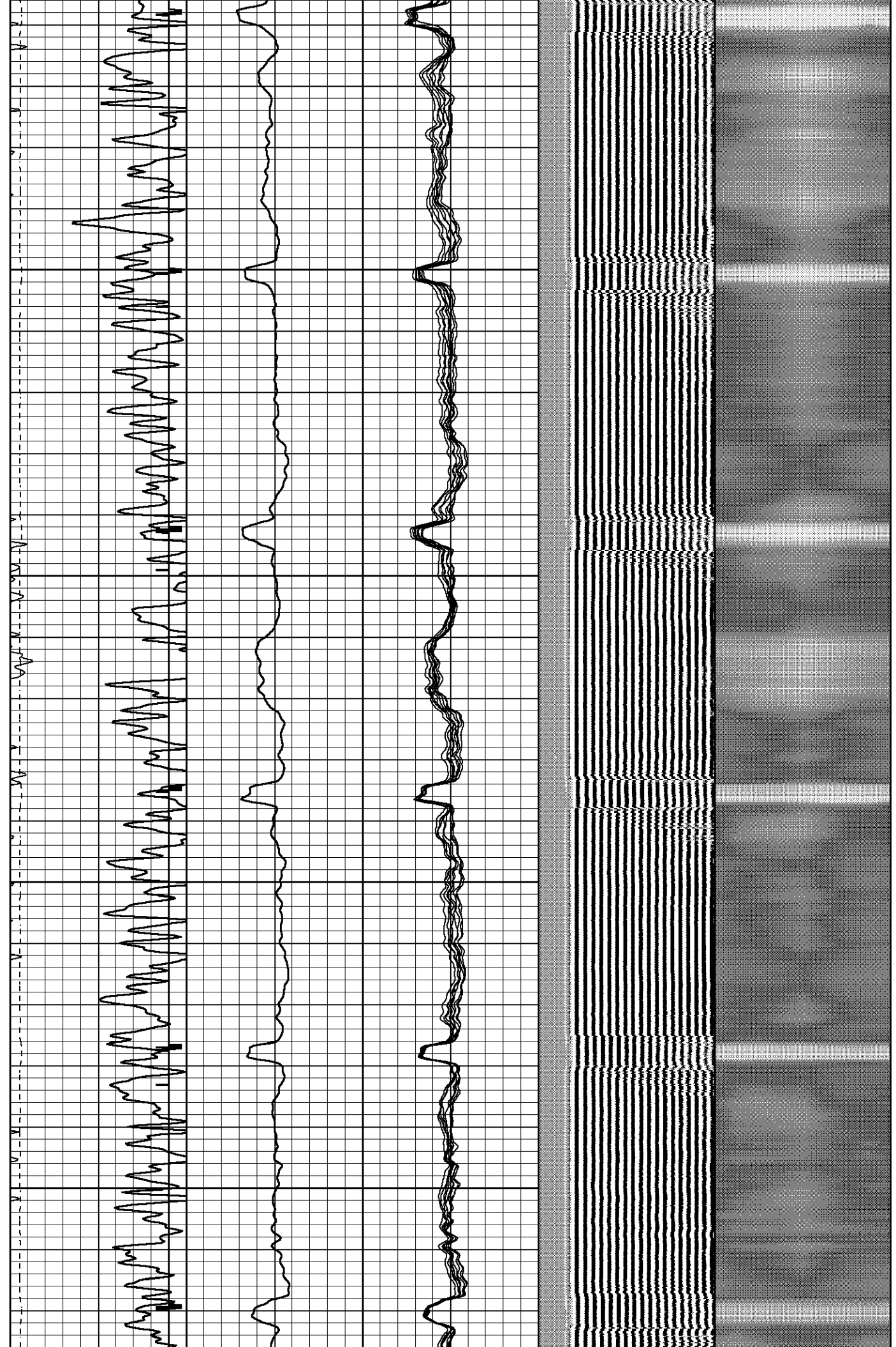


1750

1800

1850

1900

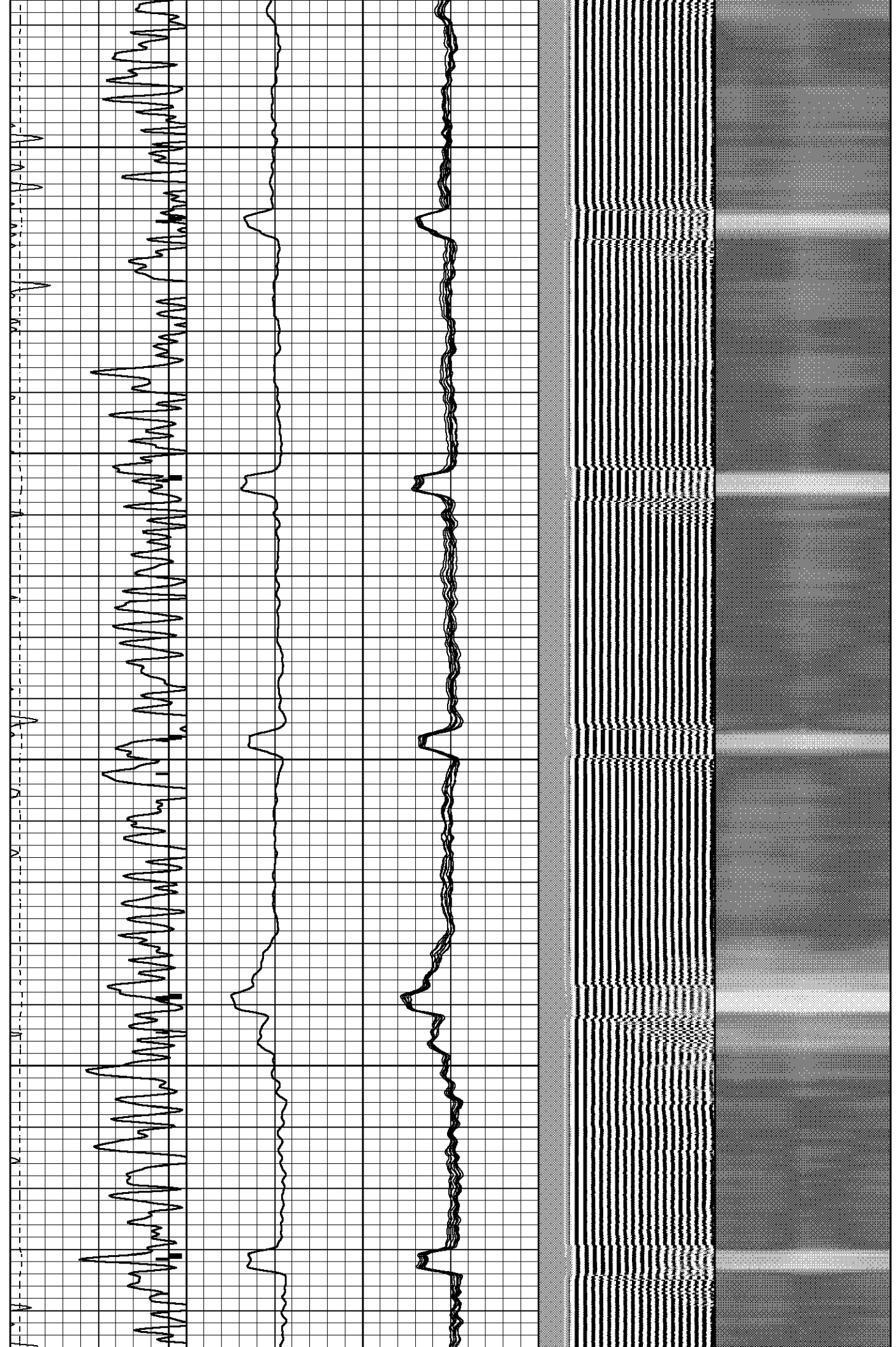


1950

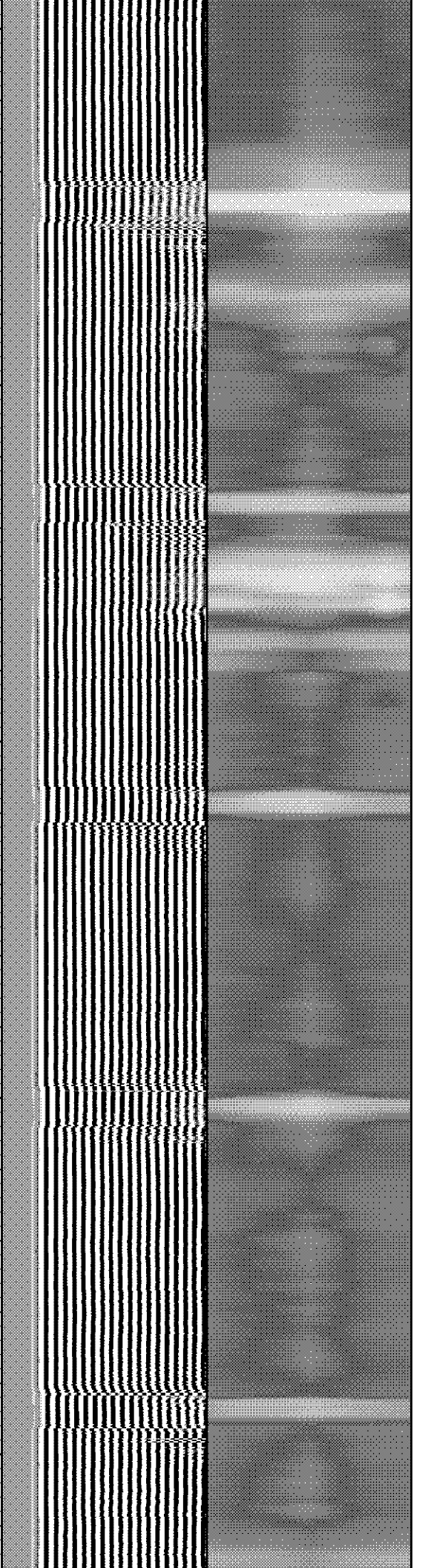
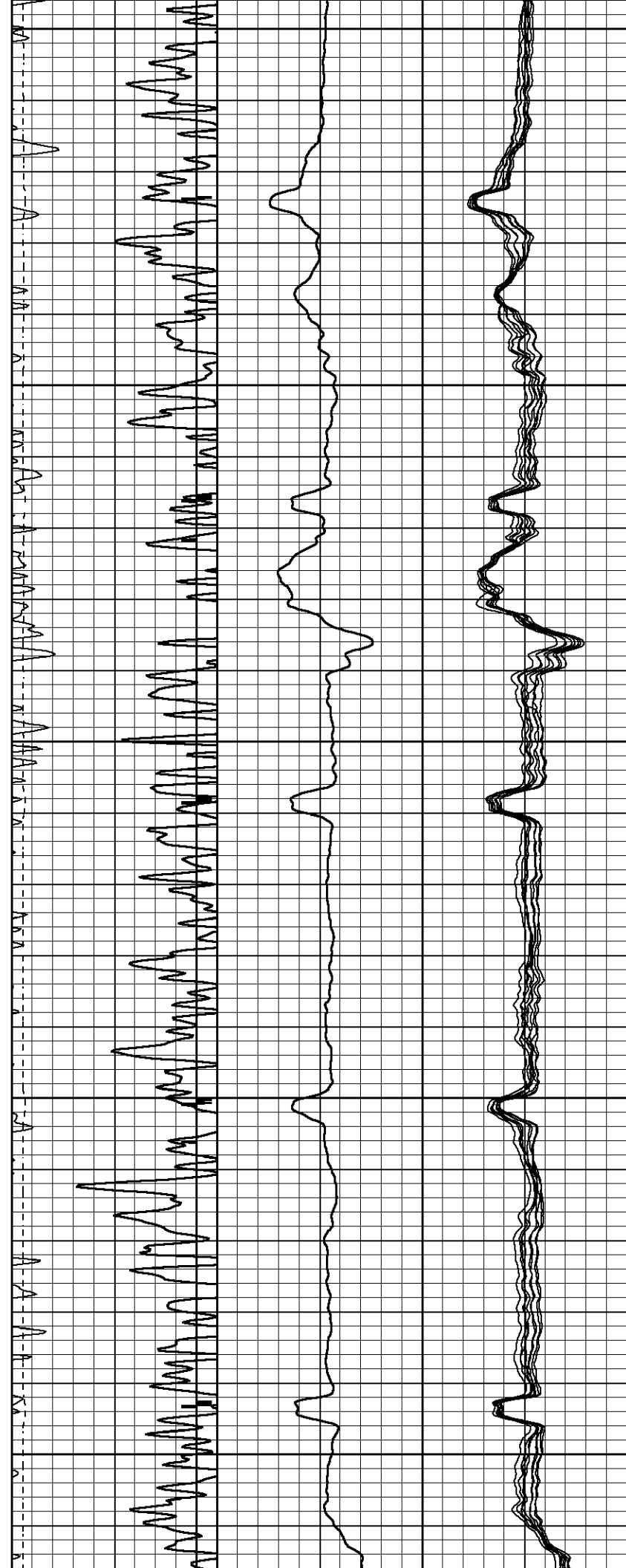
2000

2050

2100



2150
2200
2250
2300
2350

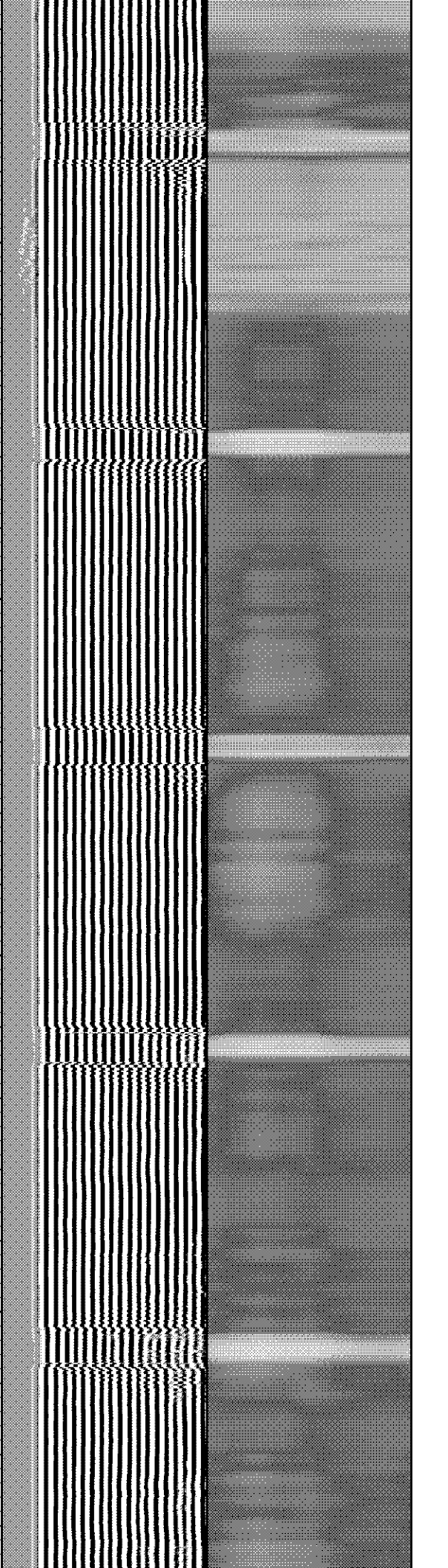
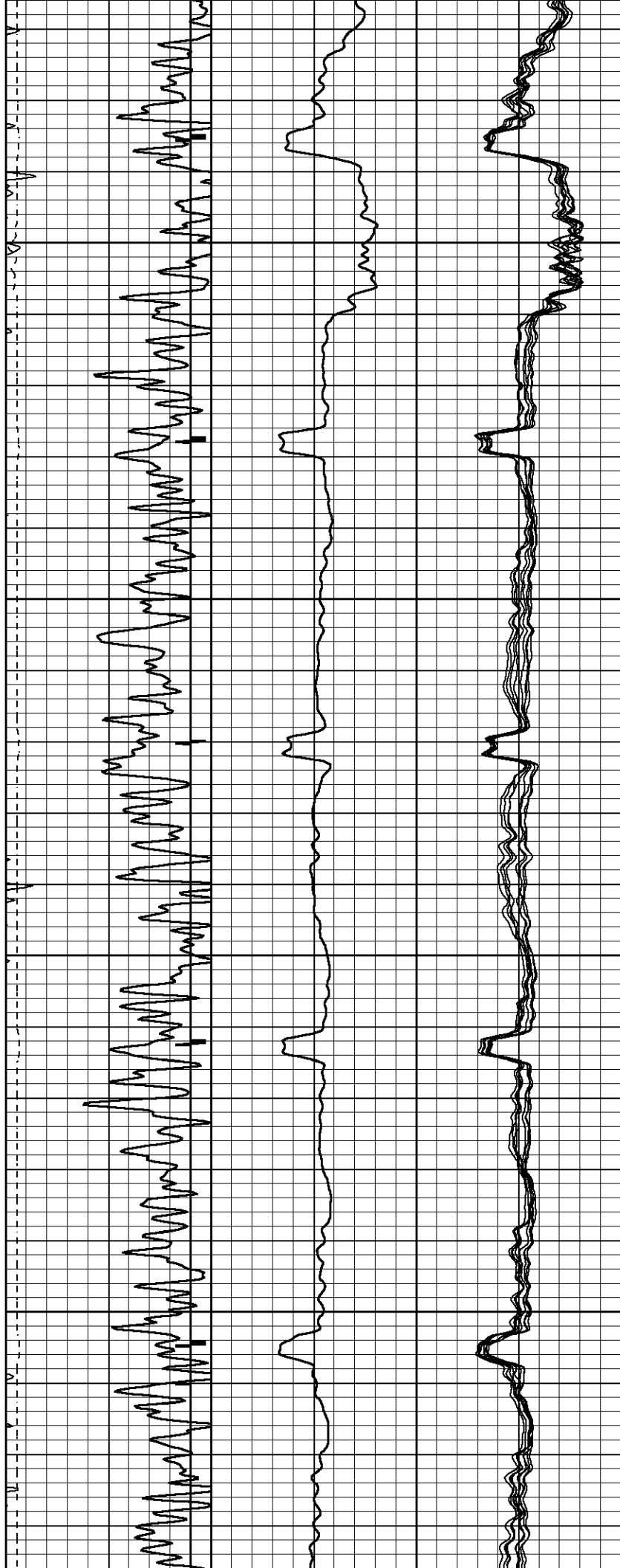


2400

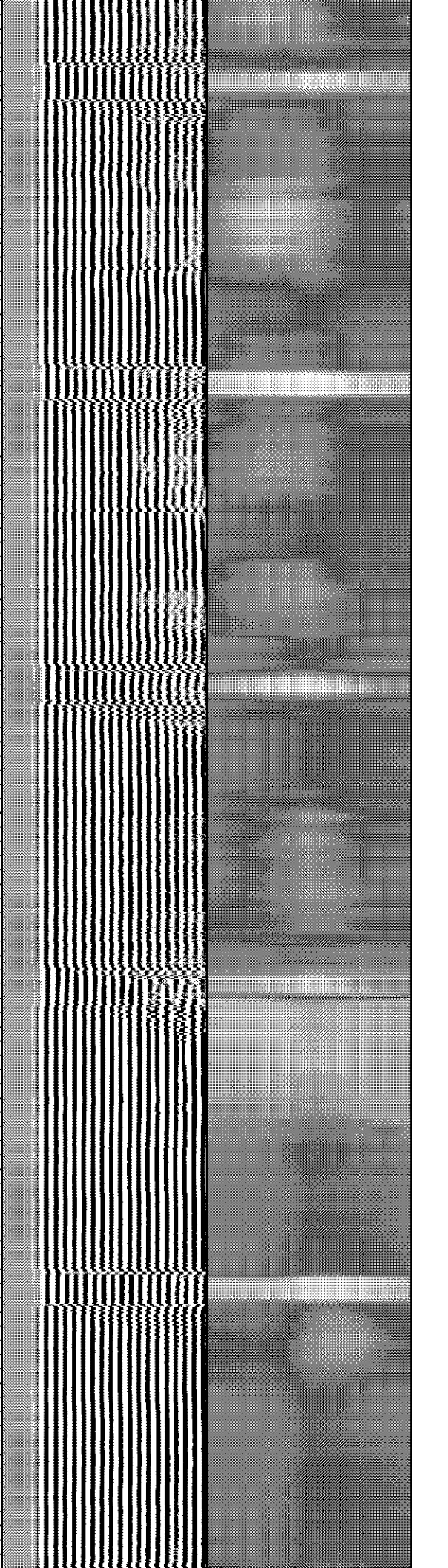
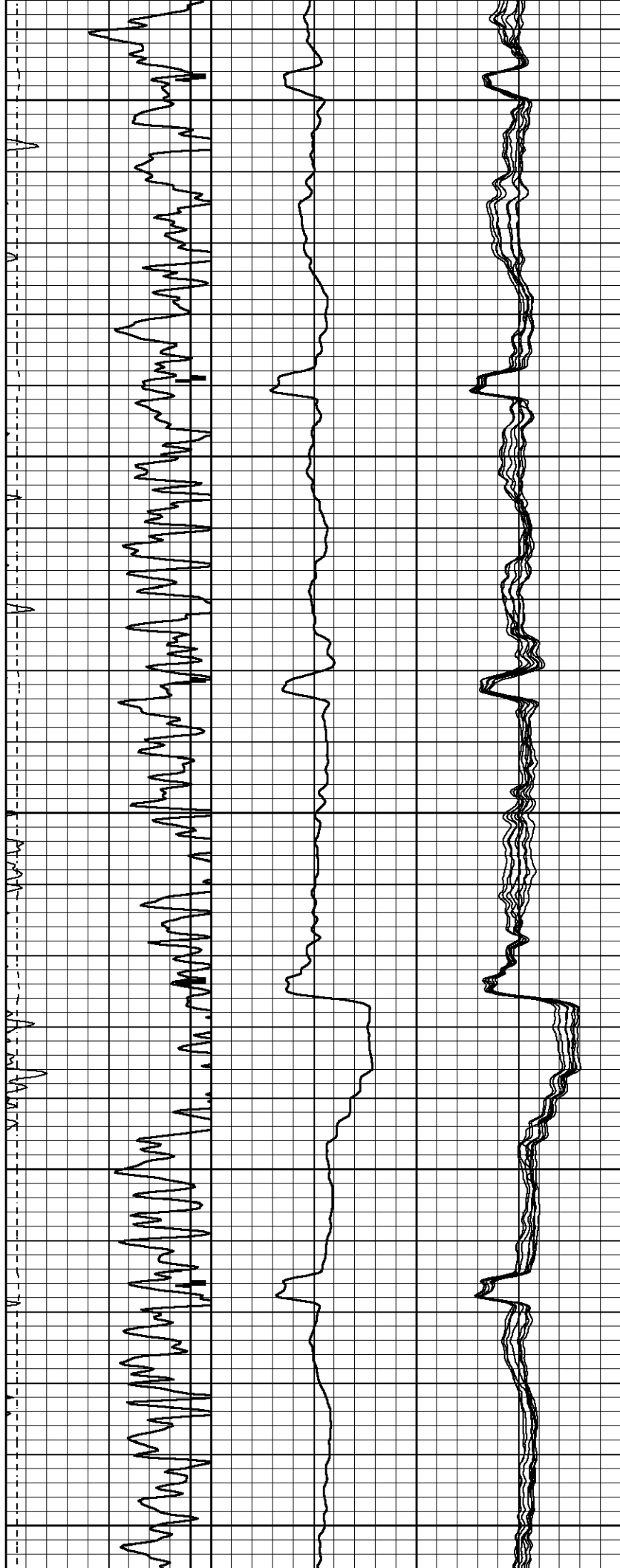
2450

2500

2550



2600
2650
2700
2750
2800

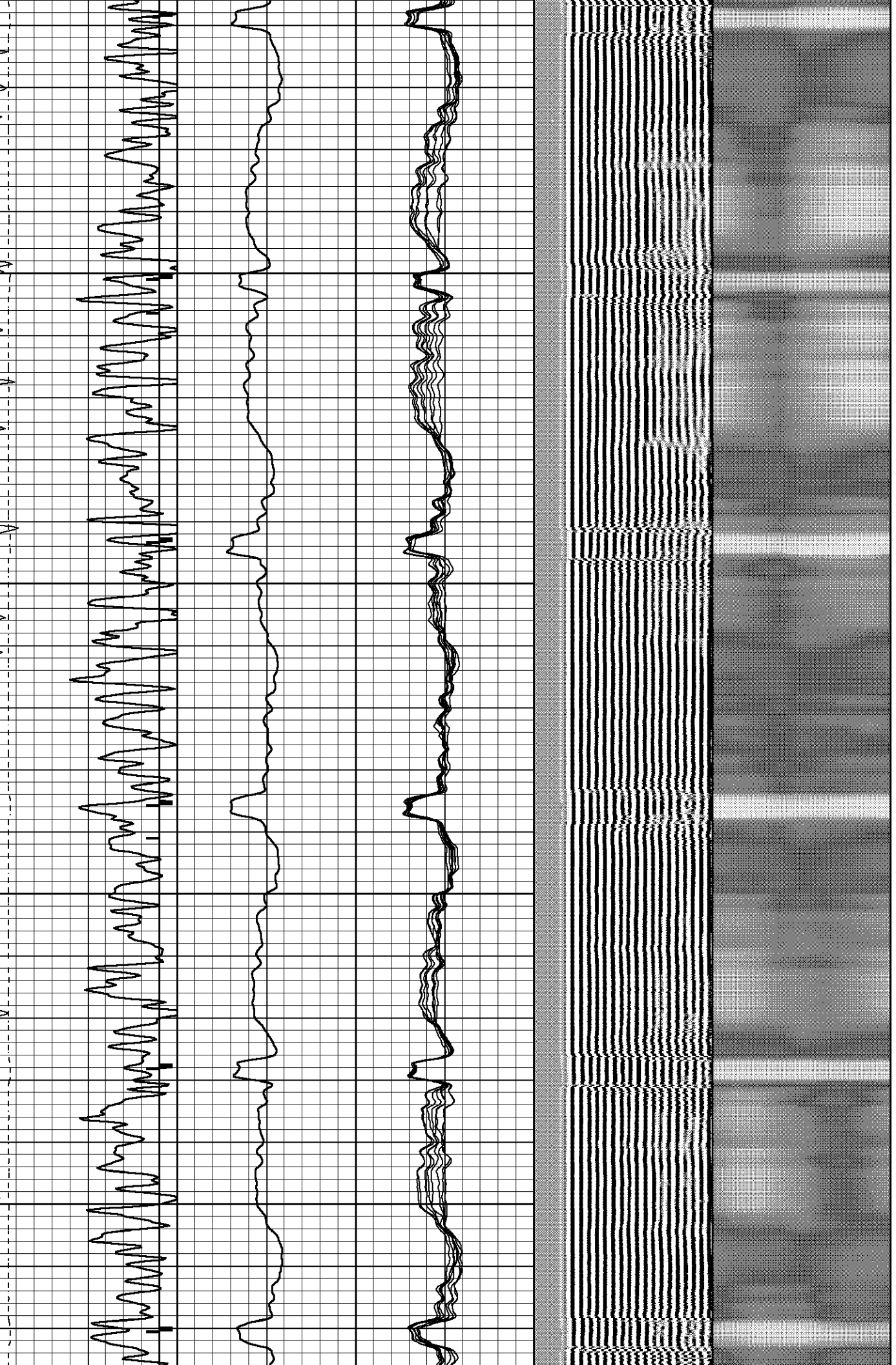


2850

2900

2950

3000

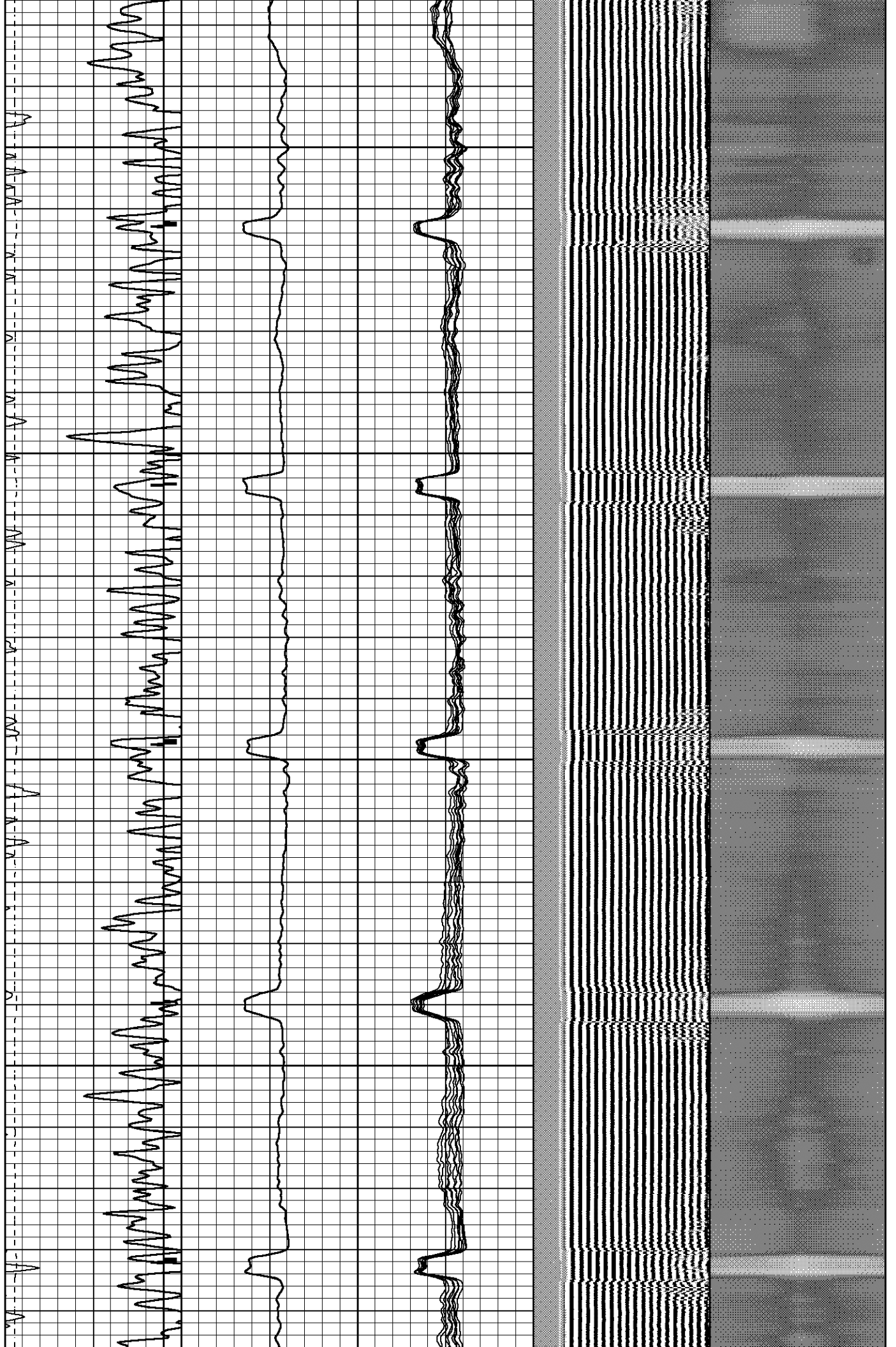


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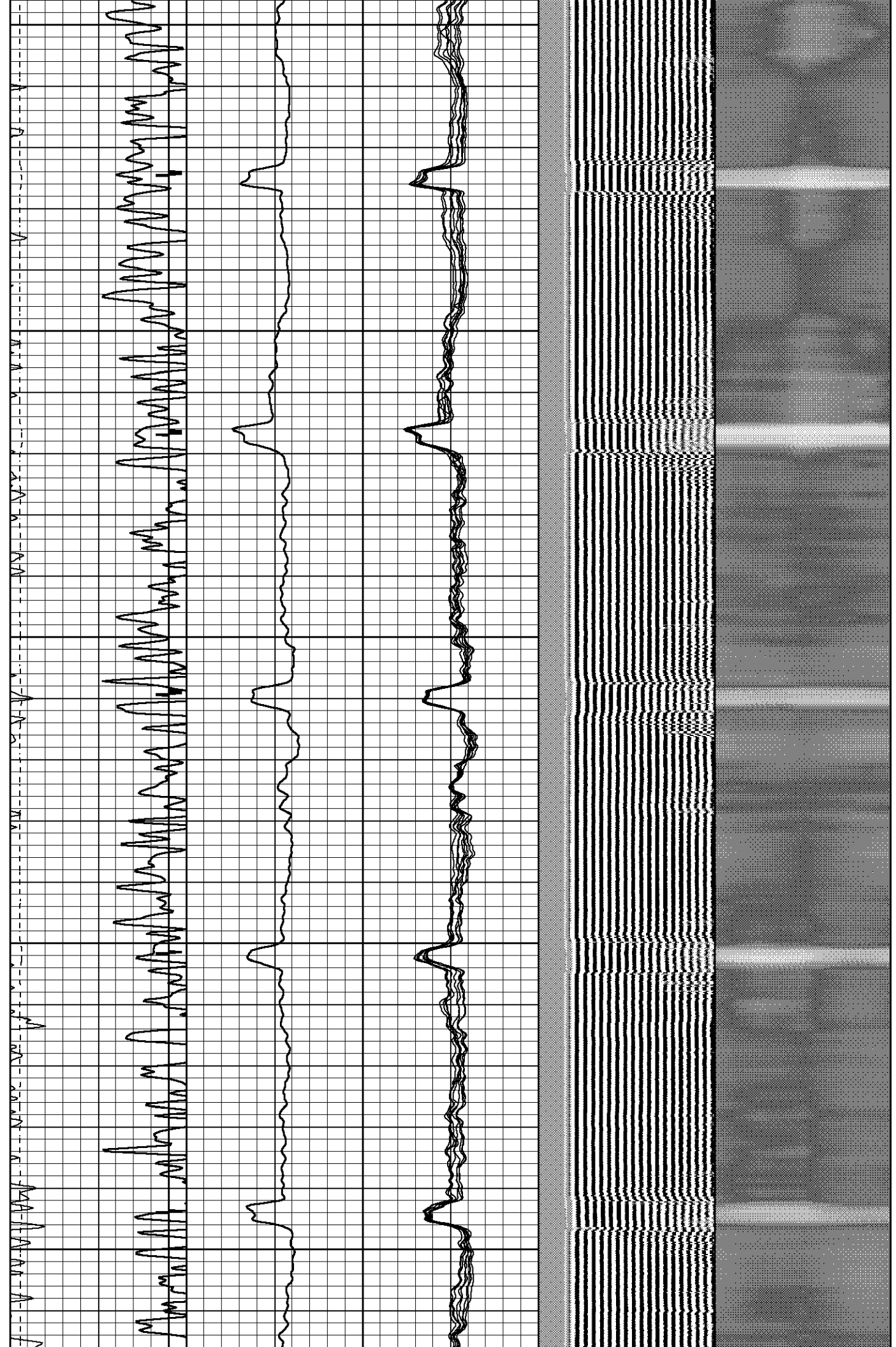
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3150

3200



3250
3300
3350
3400
3450



3500

3550

3600

3650



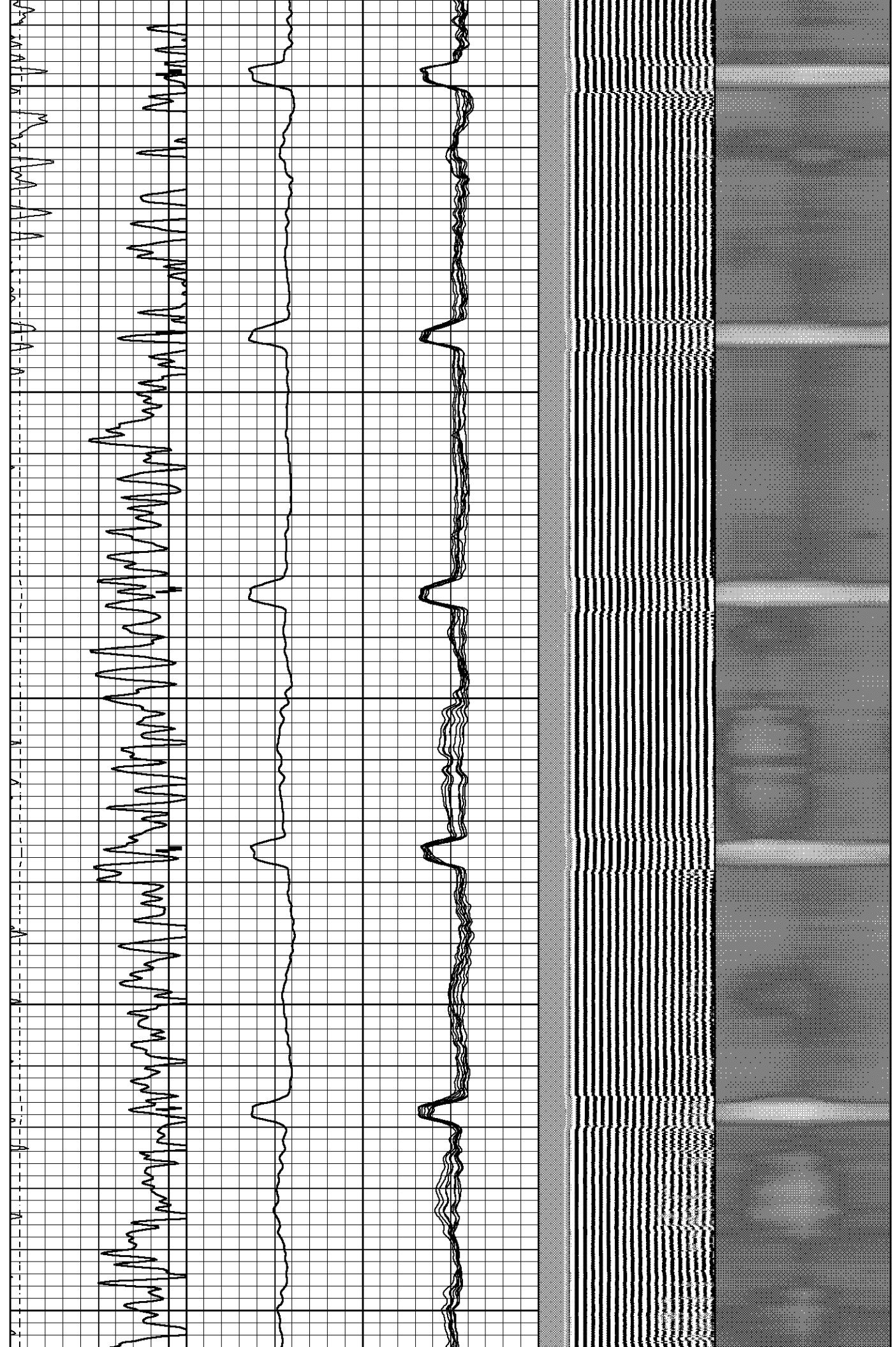
3700

3750

3800

3850

3900



3950

4000

4050

4100

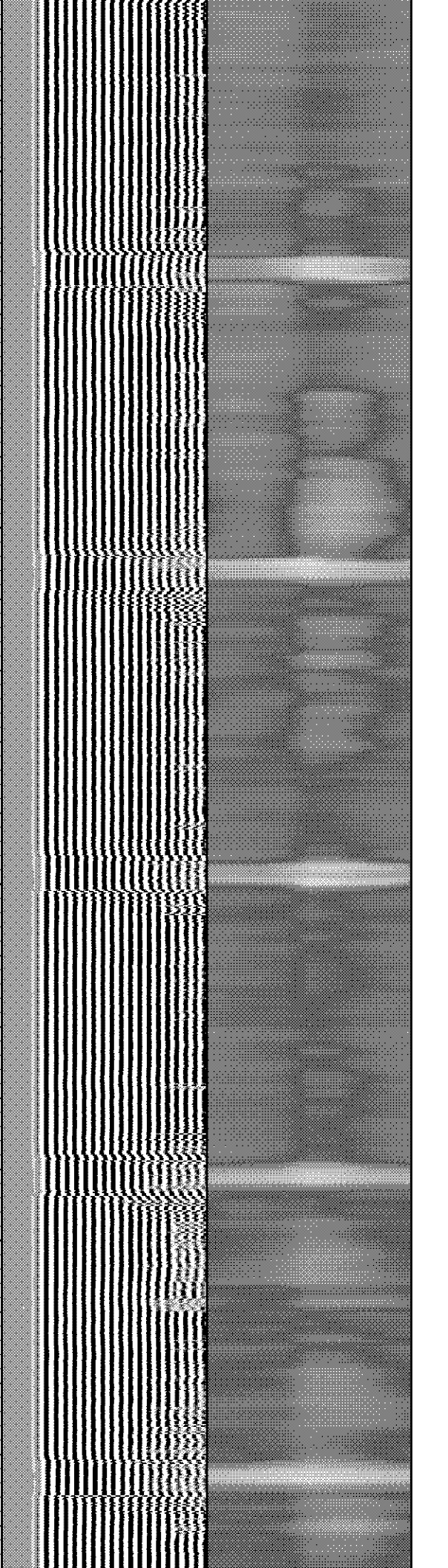
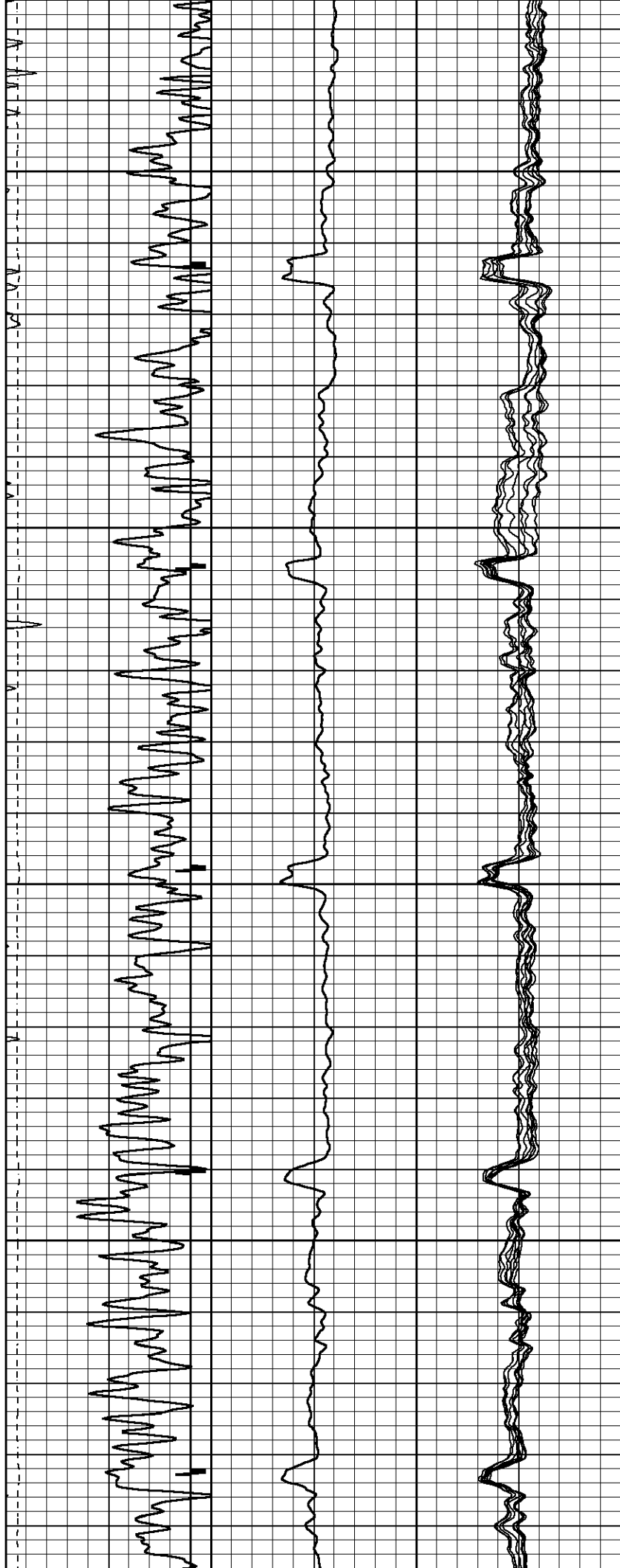


4150

4200

4250

4300



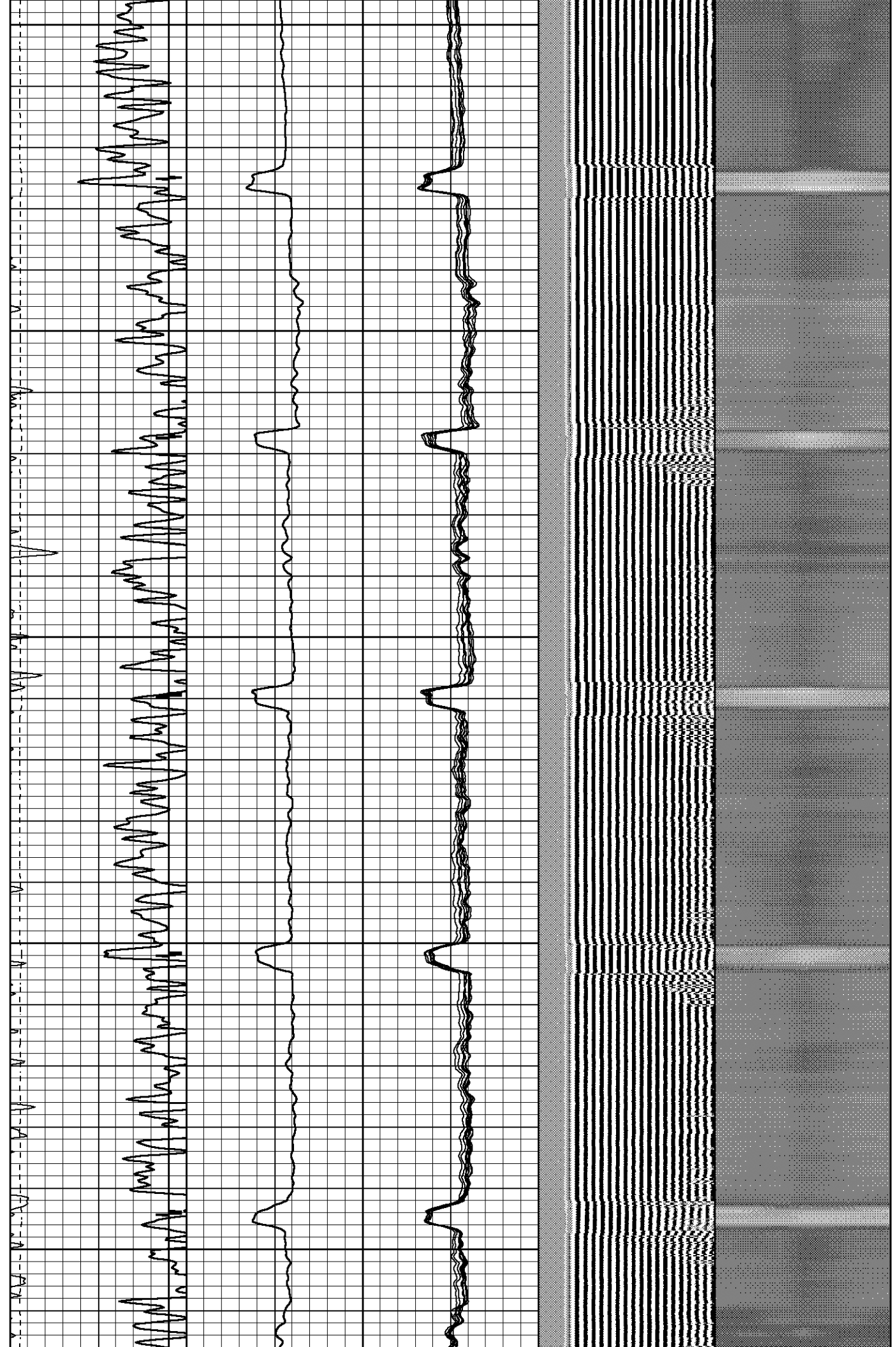
4350

4400

4450

4500

4550

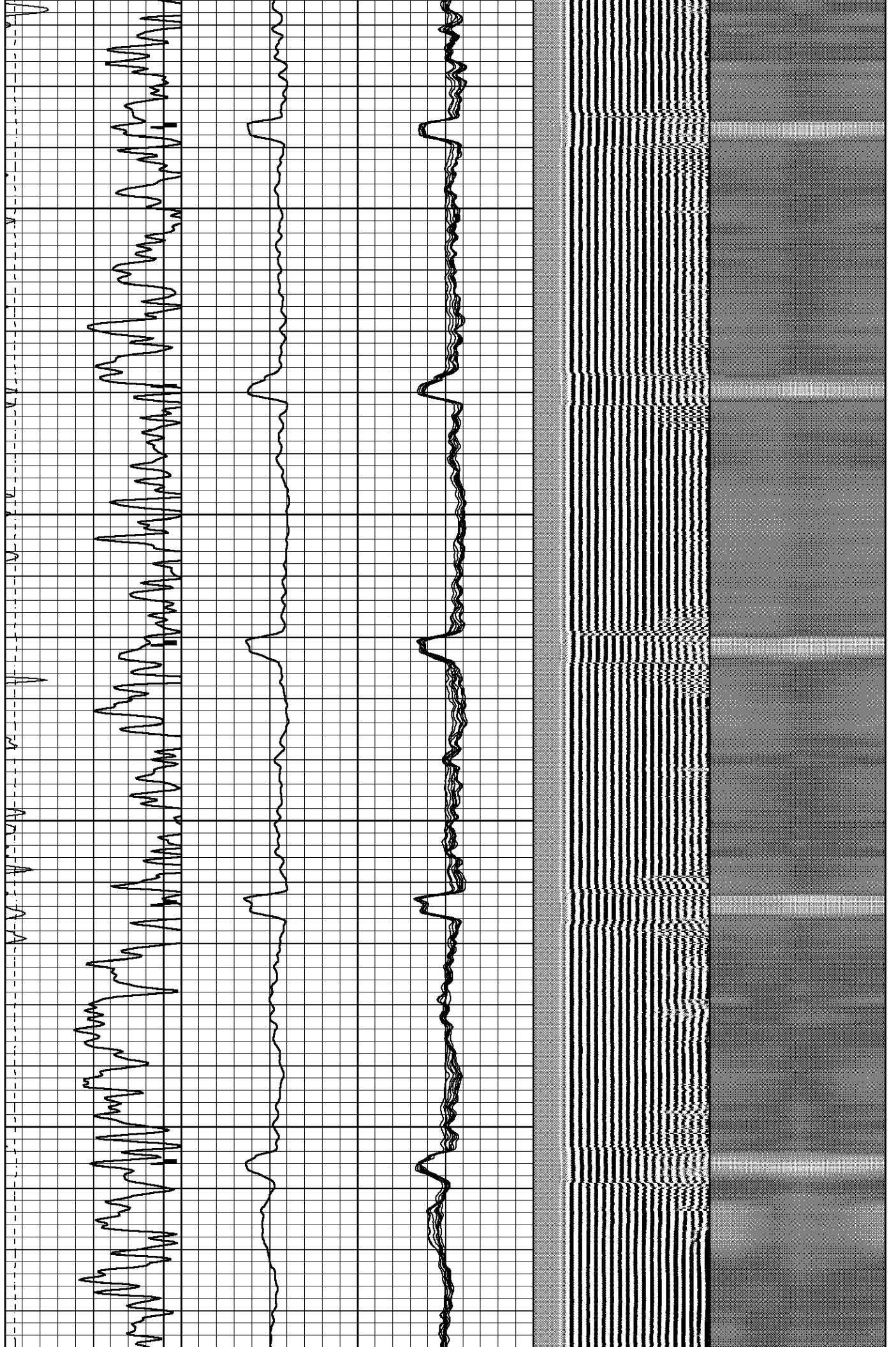


4600

4650

4700

4750



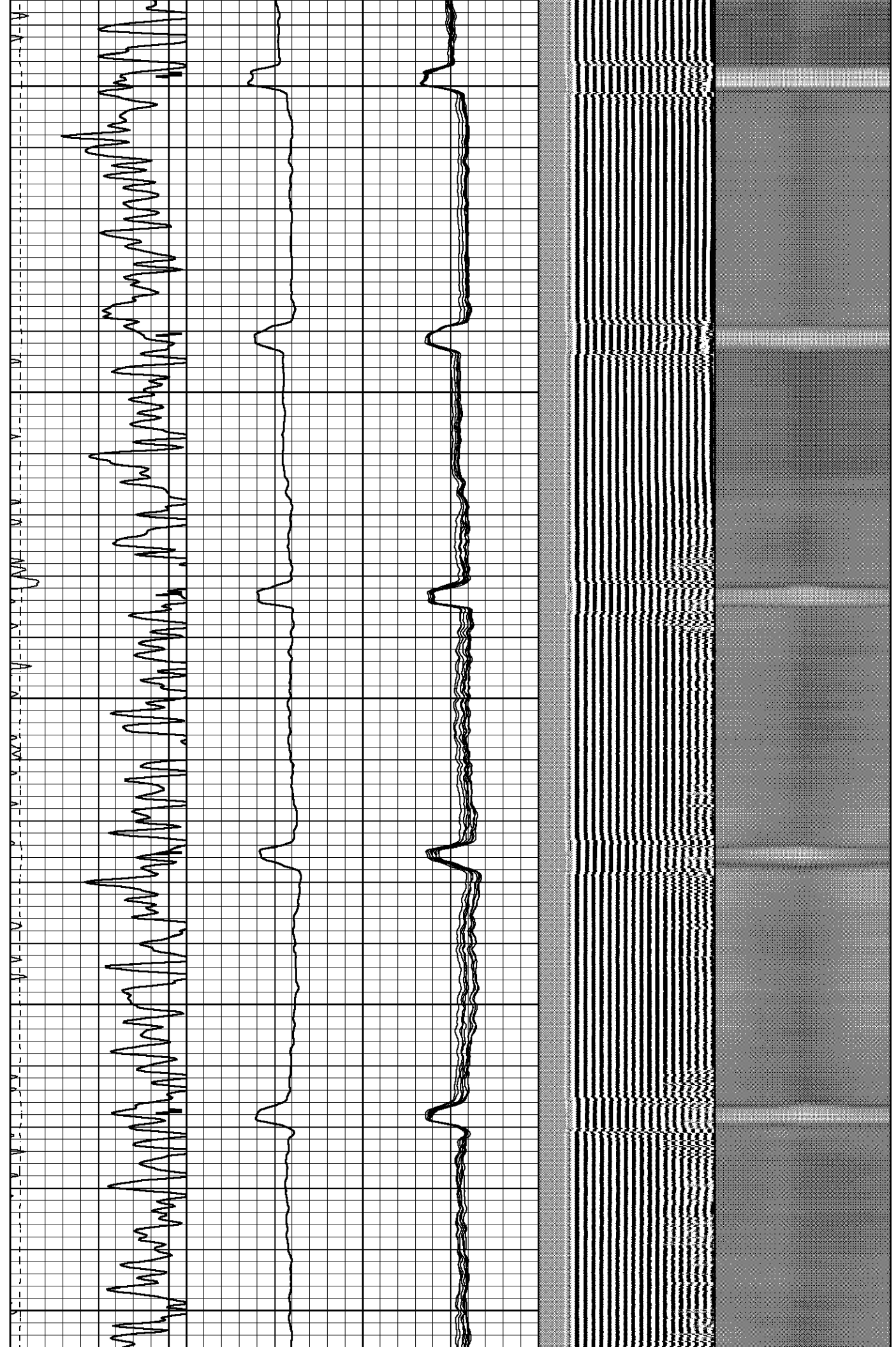
4800

4850

4900

4950

5000



5050

5100

5150

5200



5250

5300

5350

5400



5450
5500
5550
5600
5650



5700

5750

5800

5850



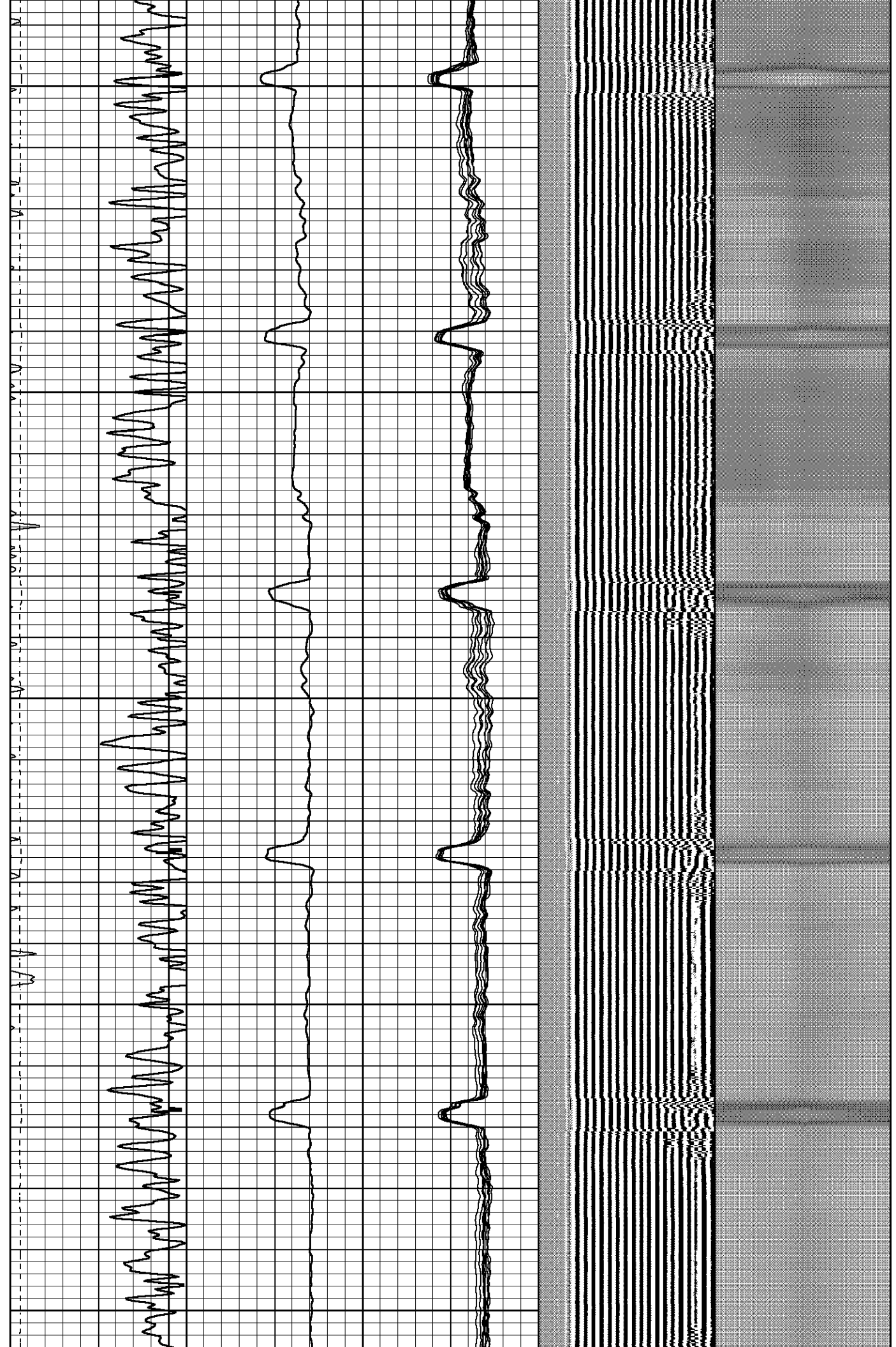
5900

5950

6000

6050

6100

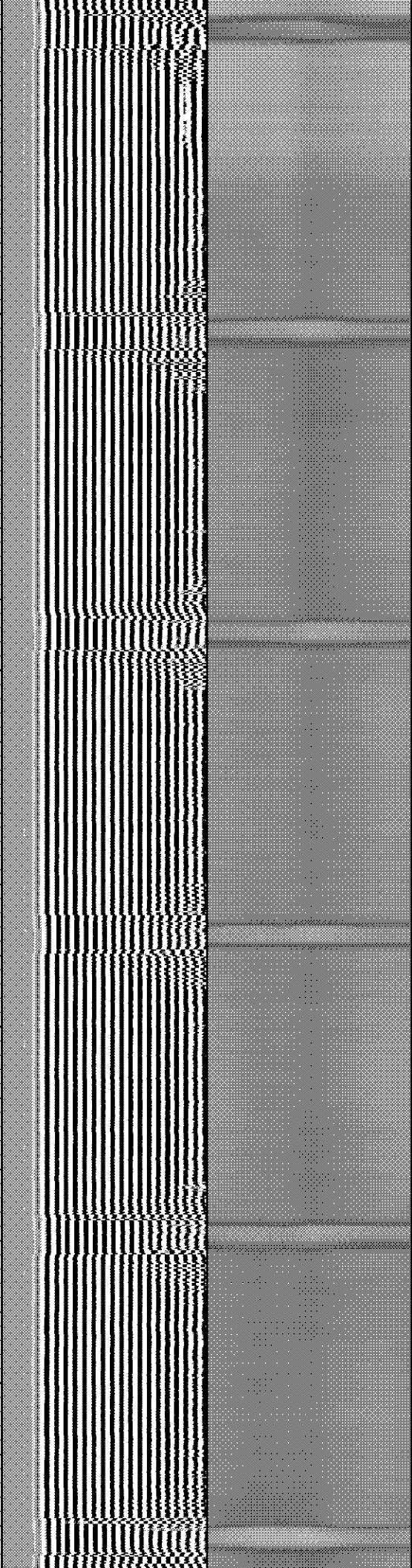
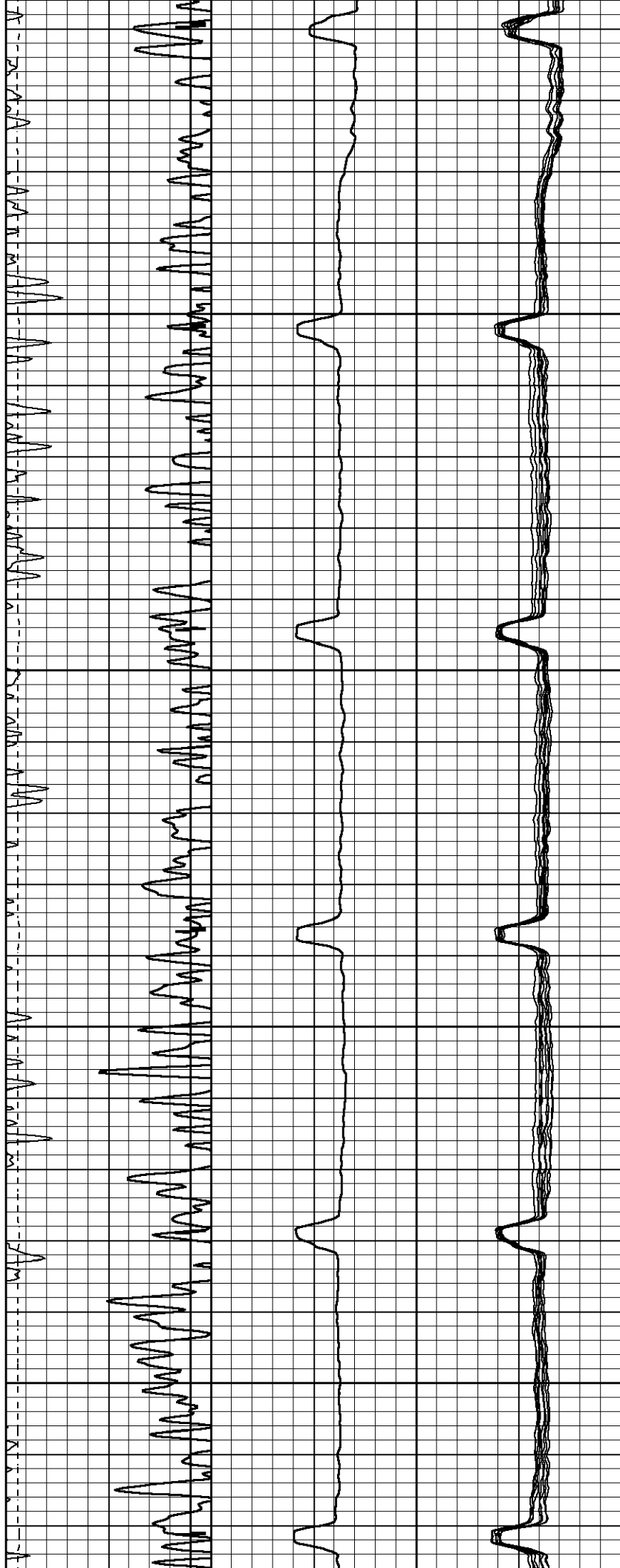


6150

6200

6250

6300

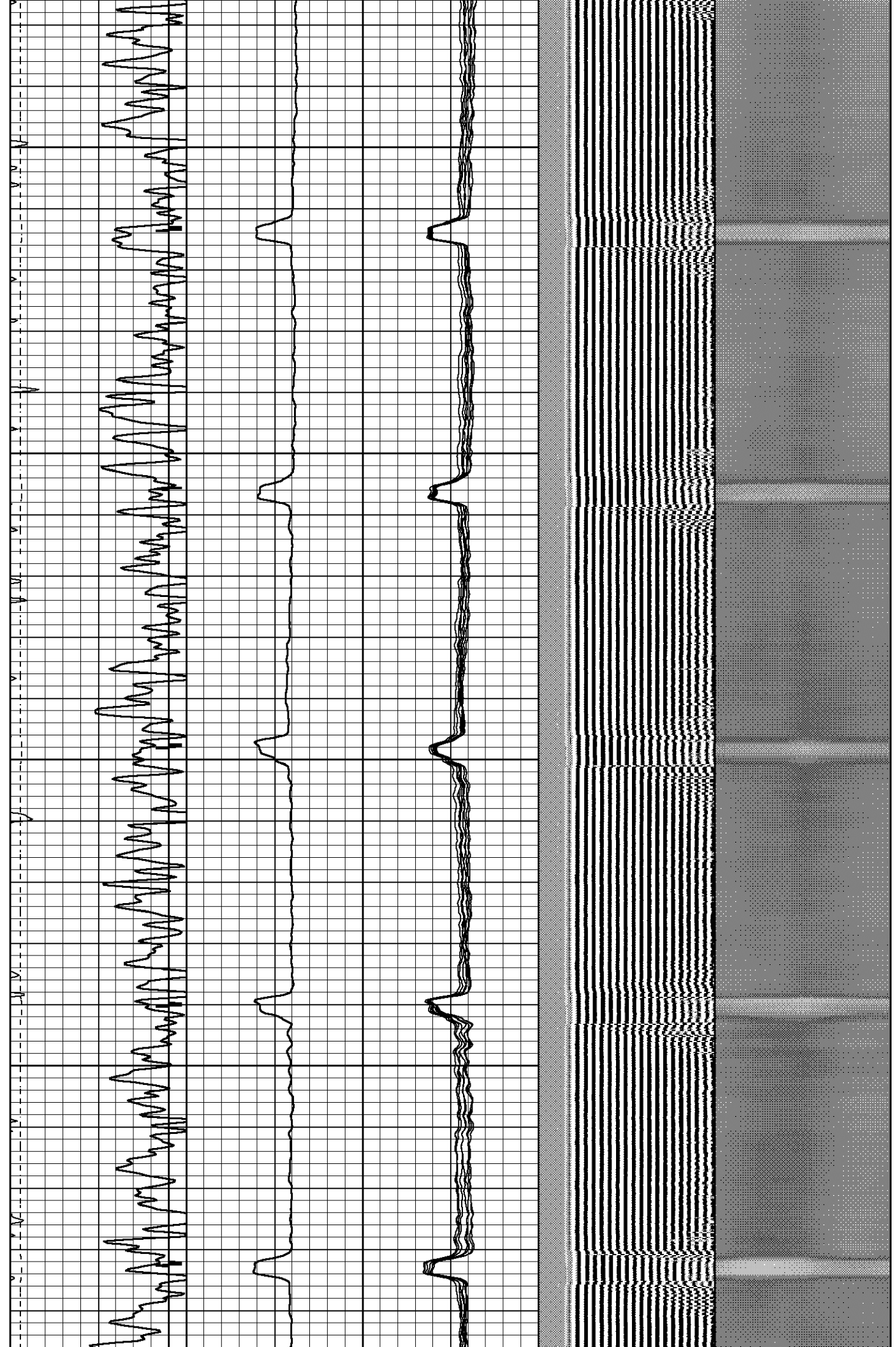


6350

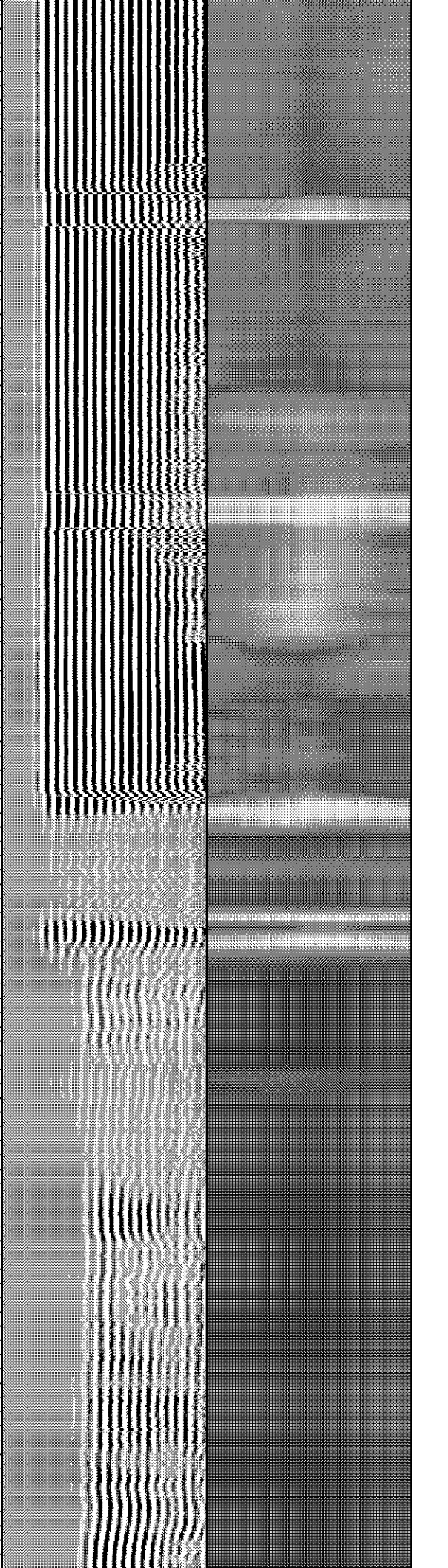
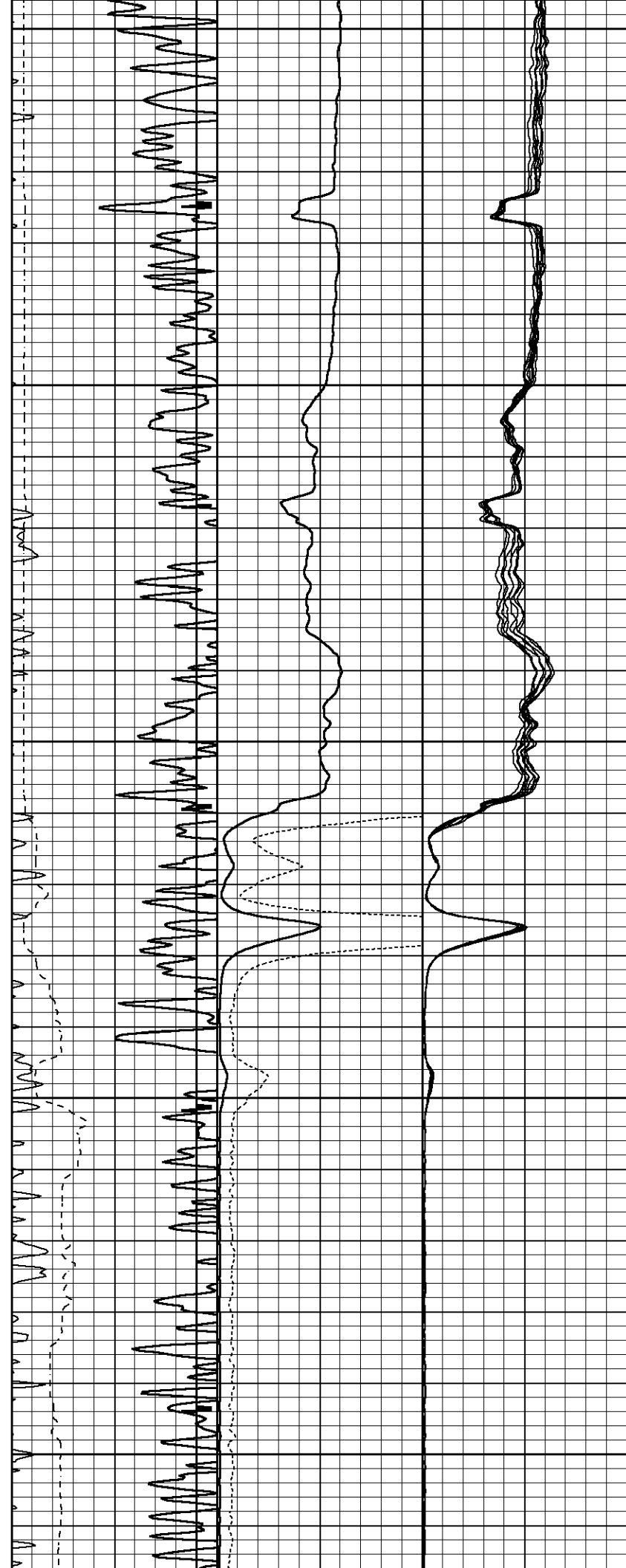
6400

6450

6500



6550
6600
6650
6700
6750

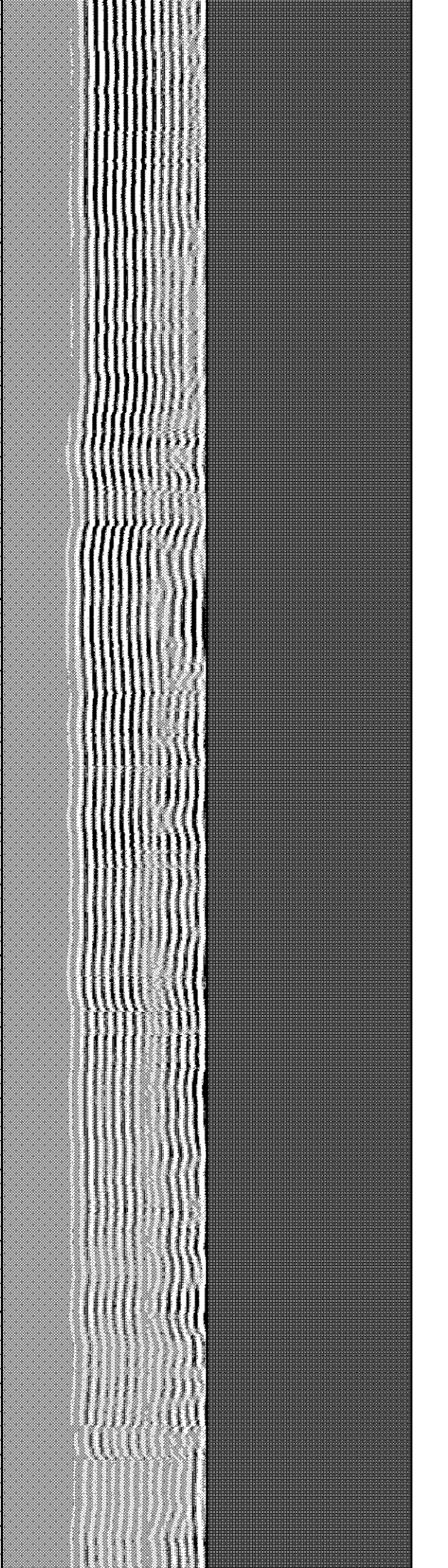
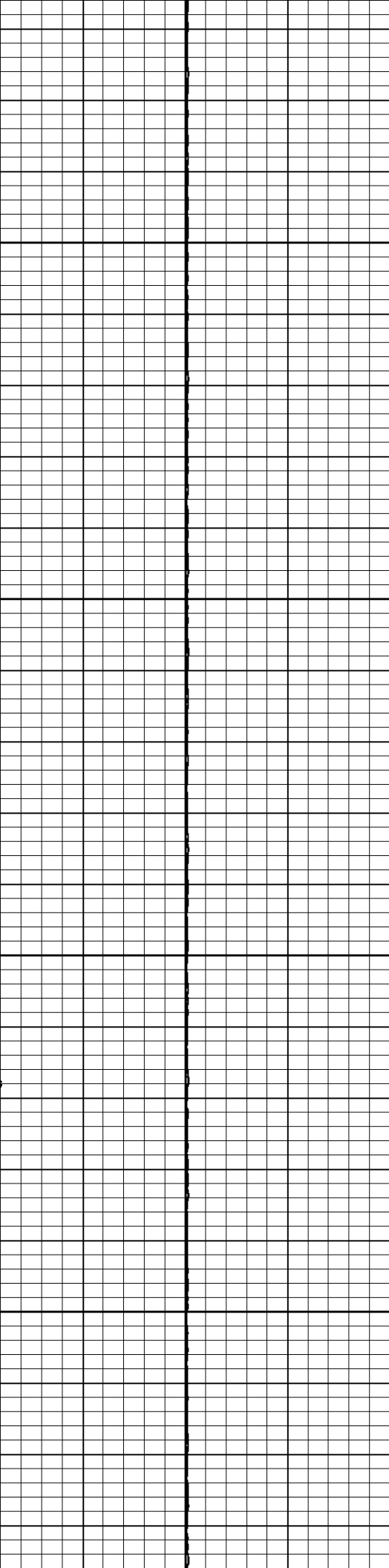
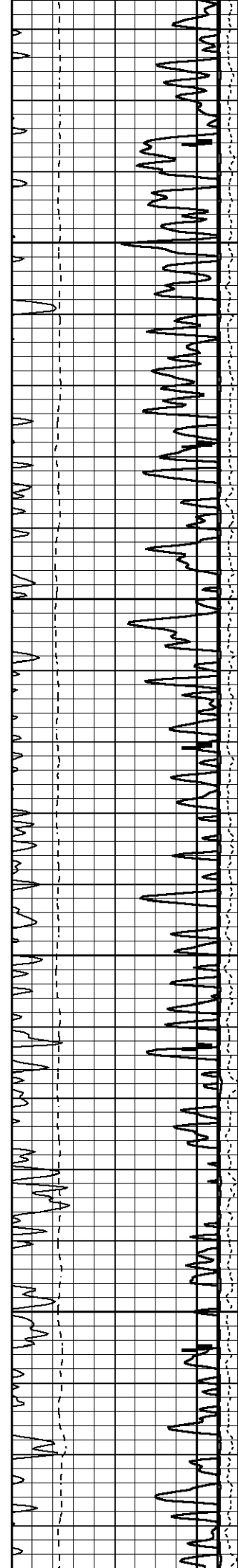


6800

6850

6900

6950



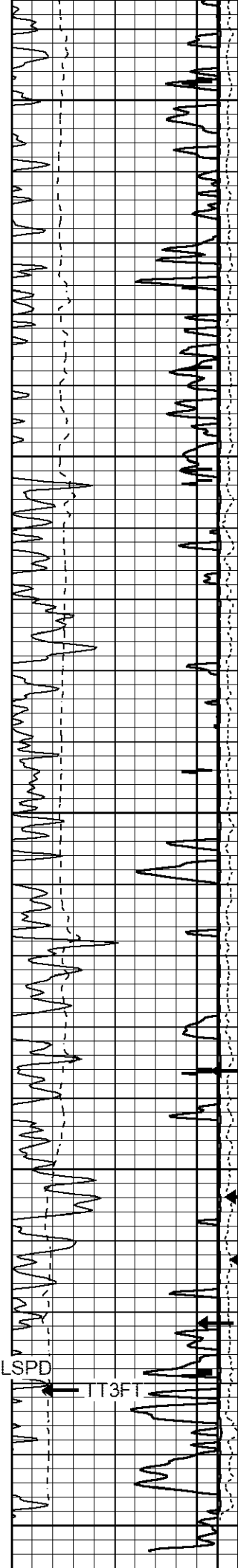
7000

7050

7100

7150

7200



GR

AMP3FT

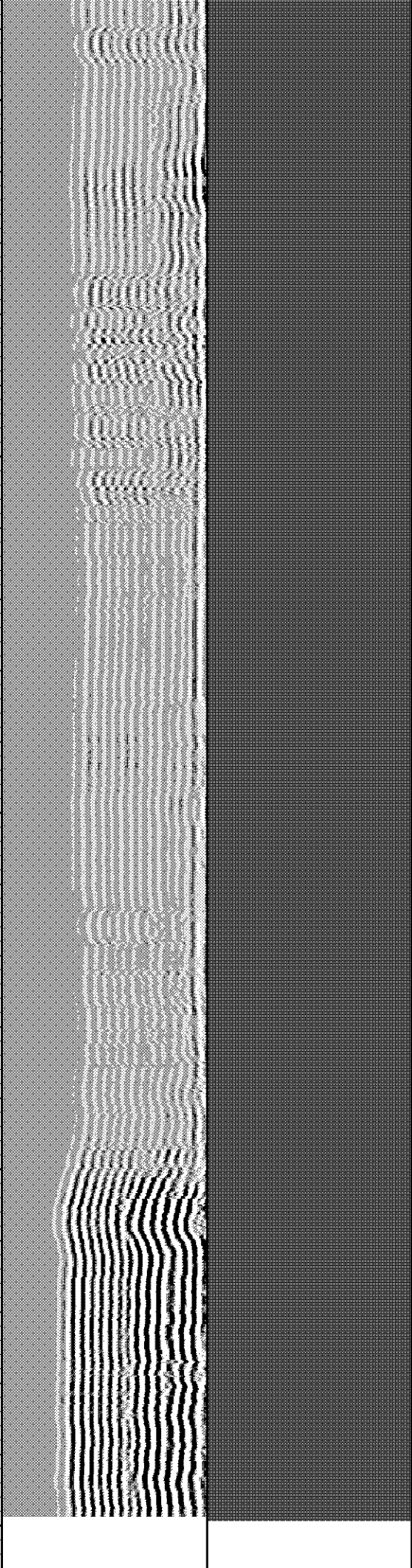
AMP3FT

CCL

LSPD

TT3FT

- ↑ AMPS1
- ↑ AMPS2
- ↑ AMPS3
- ↑ AMPS4
- ↑ AMPS5
- ↑ AMPS6
- ↑ AMPS7
- ↑ AMPS8



LSPD (ft/min)	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL (usec)	1200	1	Cement Map	8
	-9	CCL	1	0	AMP3FT (mV)	20	0	AMPS2	100						
0	-250	0	GR (GAPI)	150			0	AMPS3	100						
		150	GR (GAPI)	400			0	AMPS4	100						
							0	AMPS5	100						
							0	AMPS6	100						
							0	AMPS7	100						
							0	AMPS8	100						

Calibration Report

Database File civ-hurt_33-11-cbl.db
 Dataset Pathname cbl-/main
 Dataset Creation Tue Feb 06 11:45:46 2024

Gamma Ray Calibration Report

Serial Number: 27GRL10-XXXX
 Tool Model: 27GRL10
 Performed: Tue Jul 25 16:17:25 2023

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: Greeley Ext Temp
 Tool Model: 27SBT10

Calibration Casing Diameter: 4.500 in
 Calibration Depth: 3040.350 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.008	1.044	0.250	81.196	76.931	0.882
CAL	1.114	1.018				
5'	-0.049	0.893	0.250	81.196	85.866	4.483
SUM						
S1	-0.075	0.934	0.000	81.196	80.437	6.043
S2	-0.007	1.014	0.000	81.196	79.490	0.560
S3	-0.008	1.045	0.000	81.196	77.074	0.639
S4	-0.009	1.078	0.000	81.196	74.706	0.635
S5	-0.009	1.154	0.000	81.196	69.826	0.605
S6	-0.045	1.071	0.000	81.196	72.750	3.282
S7	-0.008	1.052	0.000	81.196	76.591	0.610
S8	-0.007	1.017	0.000	81.196	79.226	0.594

Internal Reference Calibration, performed Thu Mar 10 14:36:00 2022:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset

CAL 0.000 0.000 1.114 1.018 1.000 0.000

Air Zero Calibration, performed Tue Feb 6 09:03:32 2024:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.008	0.000	-0.008
5'	0.008	0.000	-0.049
SUM			
S1	0.006	0.000	-0.075
S2	0.007	0.000	-0.007
S3	0.008	0.000	-0.008
S4	0.009	0.000	-0.009
S5	0.009	0.000	-0.009
S6	0.008	0.000	-0.045
S7	0.008	0.000	-0.008
S8	0.007	0.000	-0.007



Company	CIVITAS	
Well	HURT 33-11	
Field	WATTENBURG	
County	WELD	
State	CO	Country USA