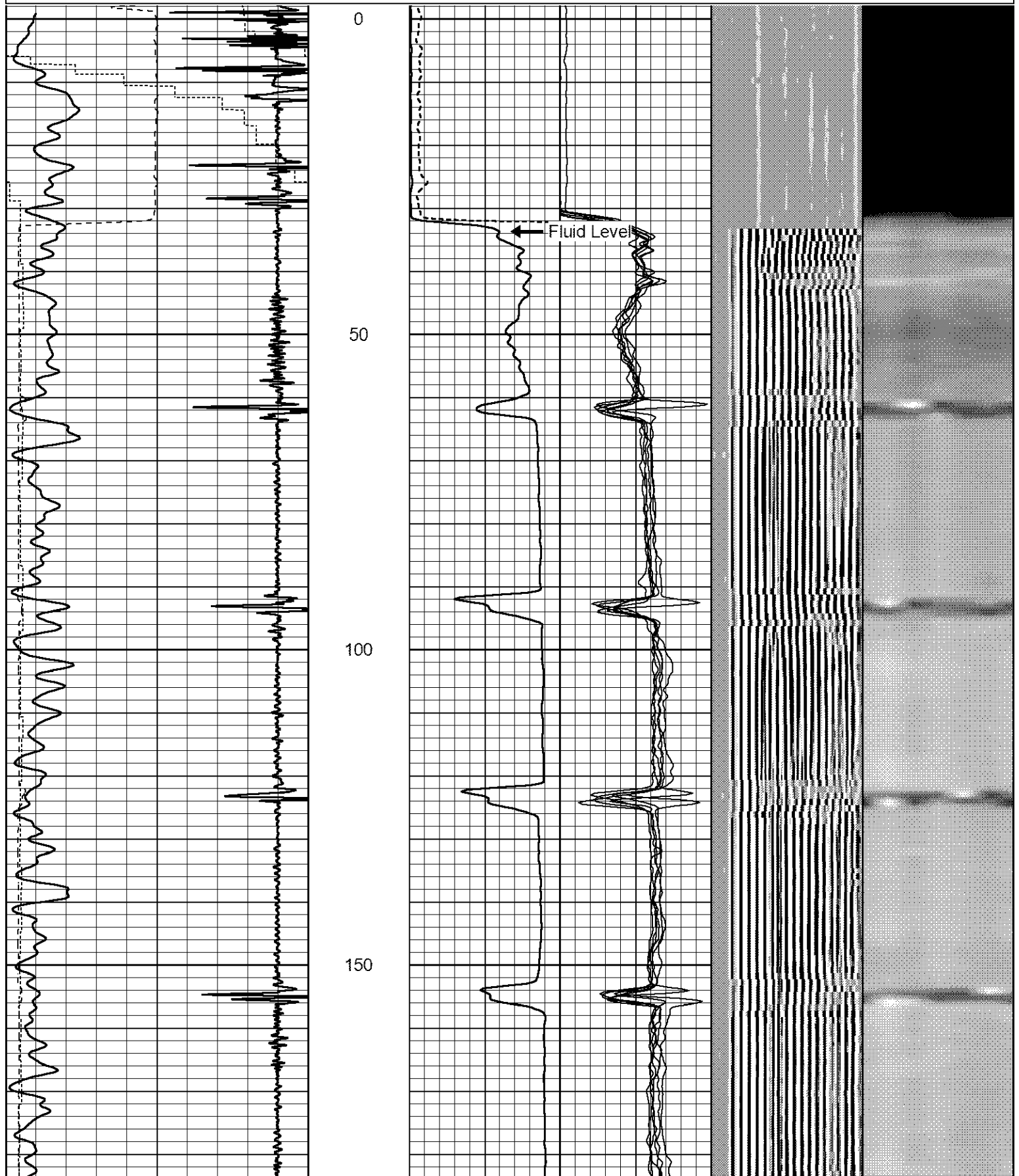


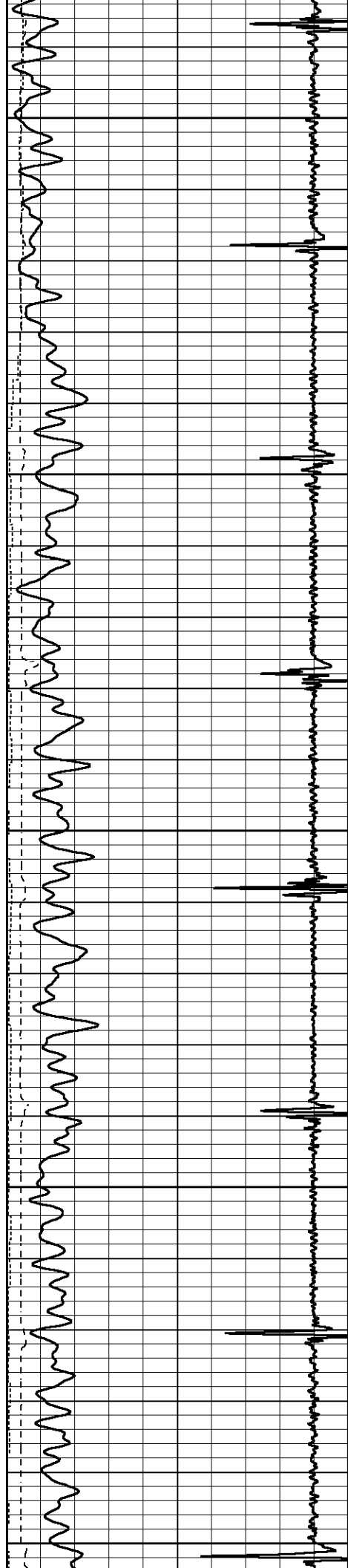


			CENT-1.69variable 1.69" Centrilizer Variable Length	1.67	1.69	15.00
TEMP	12.67					
WVFS6	11.21		SCBLTEKSLIM-T169Temp (16SBT20-0619) 1 11/16 Sector with Temp	9.67	1.69	53.00
WVFS5	11.21					
WVFS4	11.21					
WVFS3	11.21					
WVFS2	11.21					
WVFS1	11.21					
WVFCAL	11.21					
WVF3FT	10.46					
WVF5FT	9.46					
WVFTEMP	6.17					
			CENT-1.69variable 1.69" Centrilizer Variable Length	1.67	1.69	15.00
CCL	3.67					
			GR-16GRL14 (16GRL14-XXXX) 1 11/16" Tekco Gamma Ray/CCL on TOP ONLY	4.50	1.69	10.00
GR	1.19					
Dataset: karch blue d 12-11.db: field/well/run5/pass8 Total length: 18.51 ft Total weight: 98.00 lb O.D.: 1.69 in						

Database File	karch blue d 12-11.db
Dataset Pathname	run5/pass8
Presentation Format	_scblt6
Dataset Creation	Tue Jun 08 12:31:55 2021
Charted by	Depth in Feet scaled 1:240

Charted by			Depth in Feet scaled 1:240											
200	Travel Time (usec)	600	Amplitude	0	AMPS1	100	VDL	1	Sector Map	6				
9	Casing Collars	-1		0	(mV)	100		0		AMPS2	100	200	(usec)	1200
0	Line Speed (ft/min)	100		0	X5 (mV)	20		0		AMPS3	100			
0	GR (cps)	150						0		AMPS4	100			
						0	AMPS5	100						
						0	AMPS6	100						





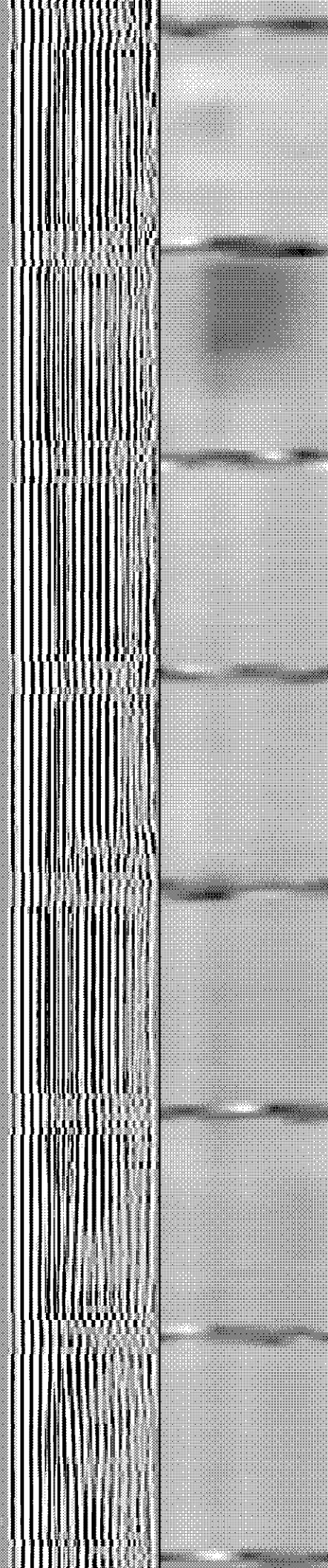
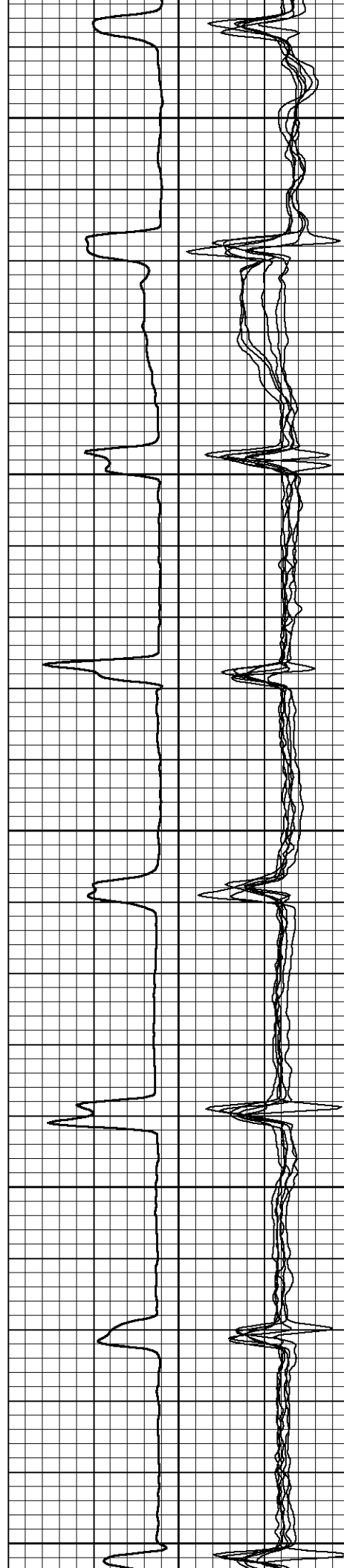
200

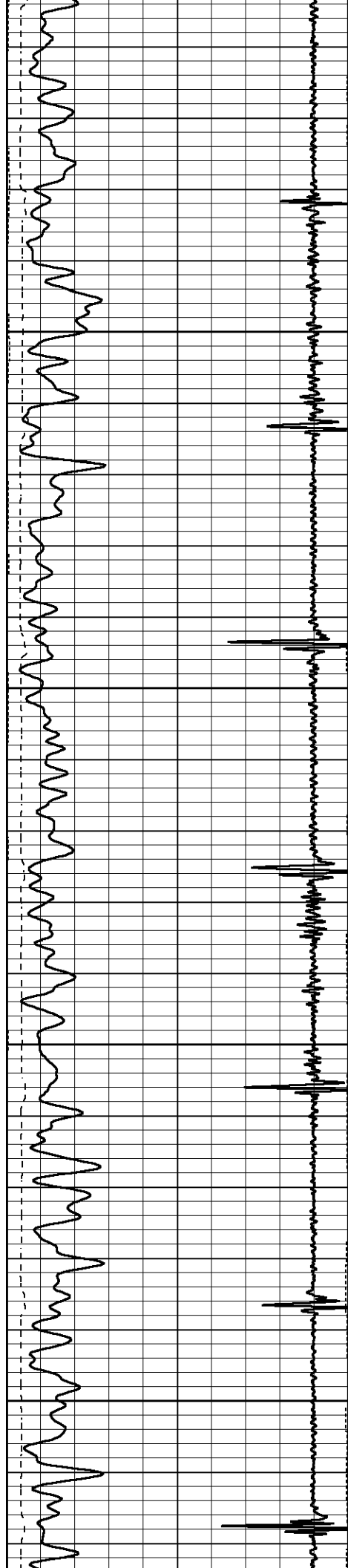
250

300

350

400



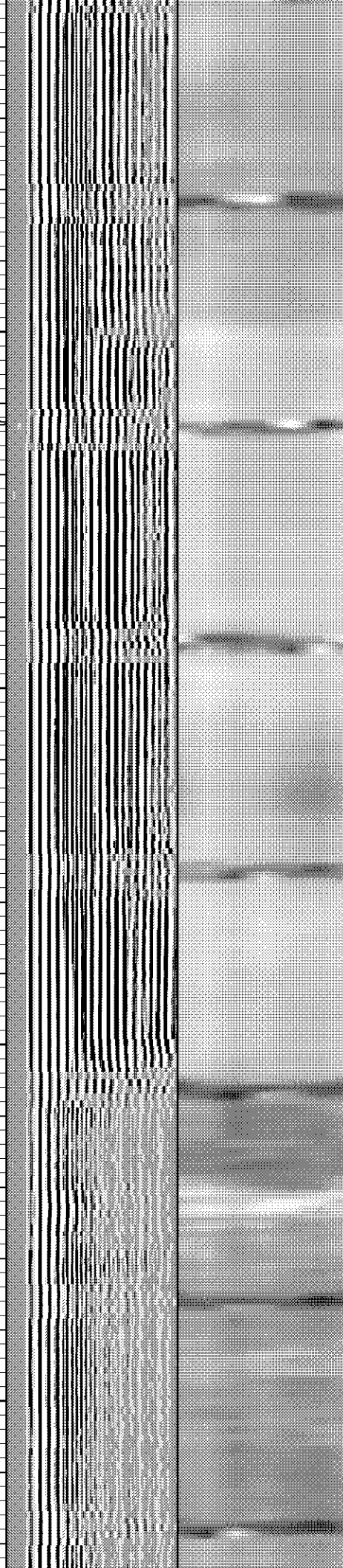
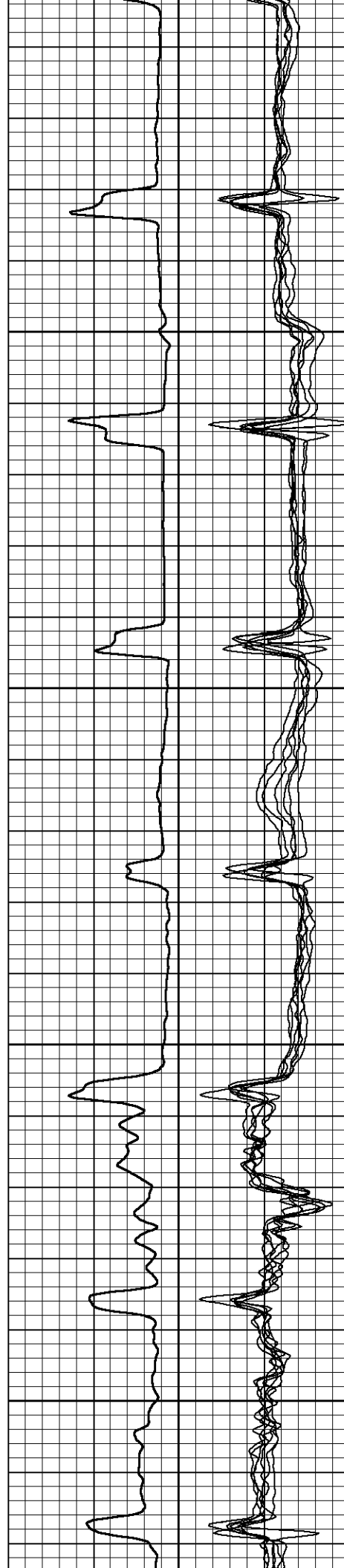


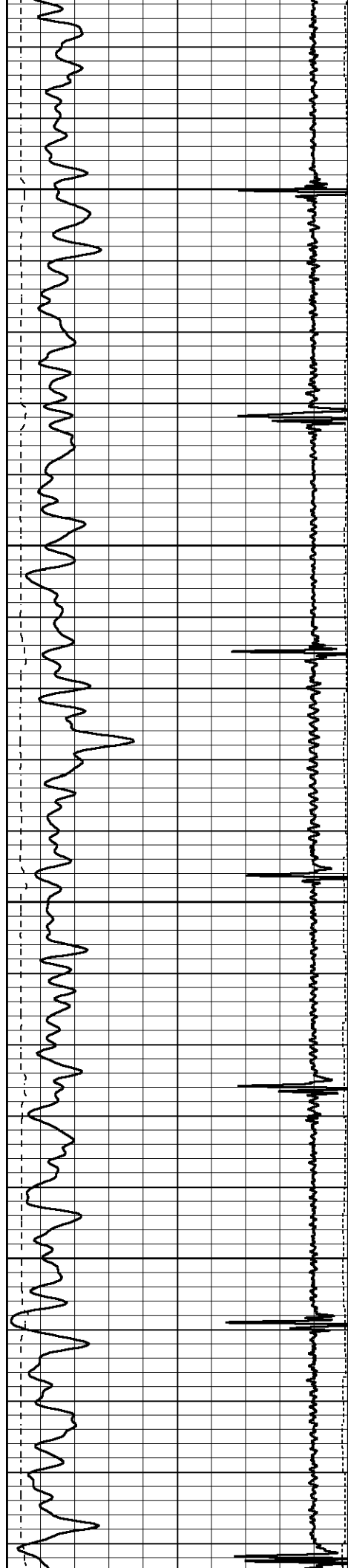
450

500

550

600



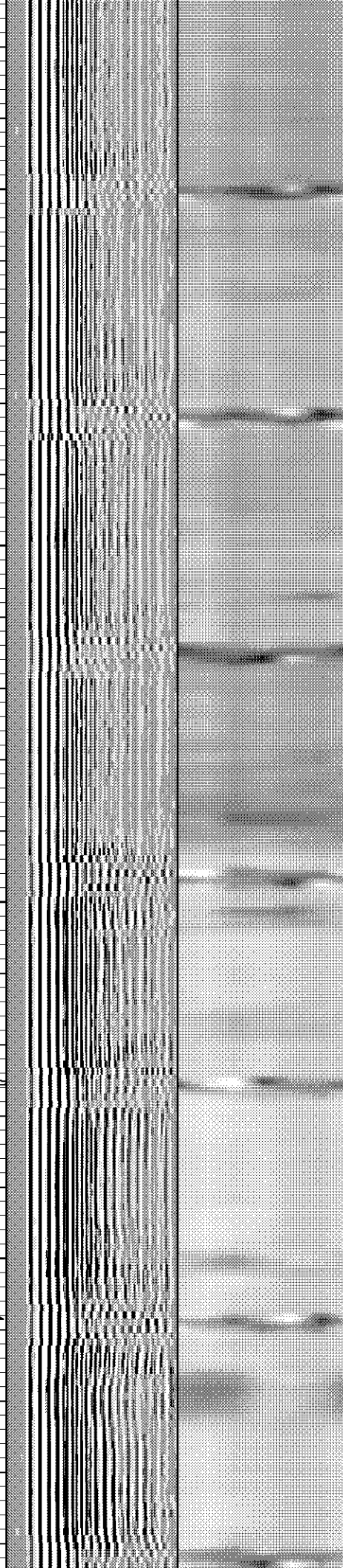
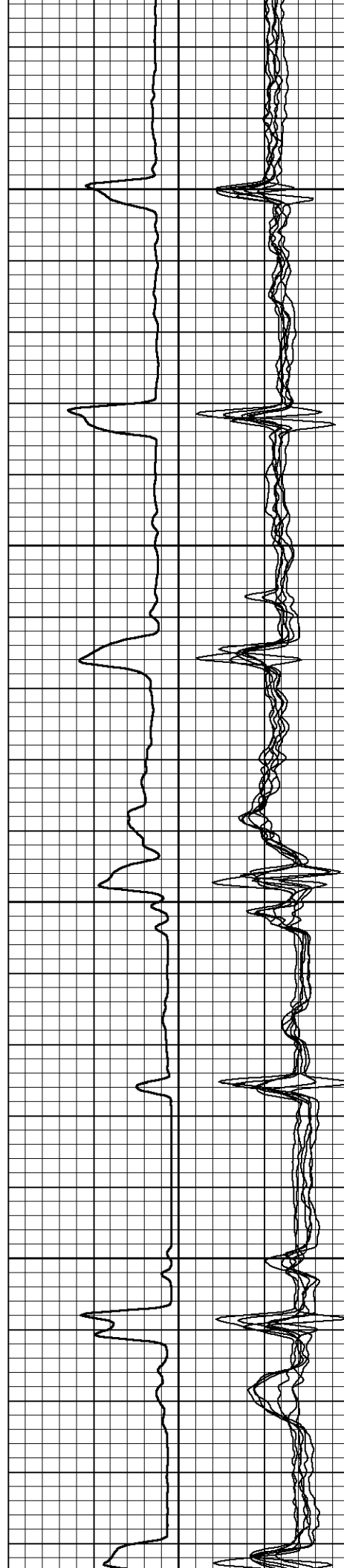


650

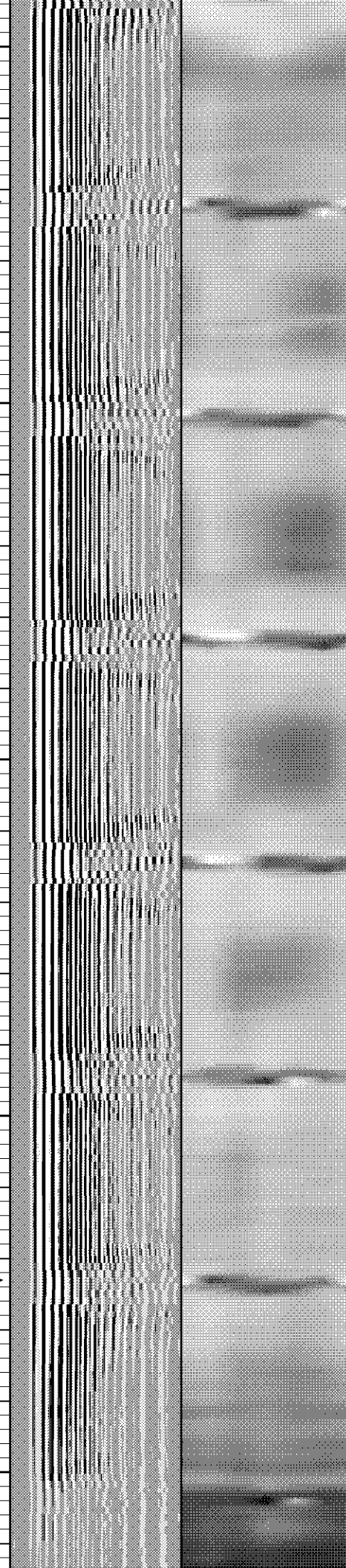
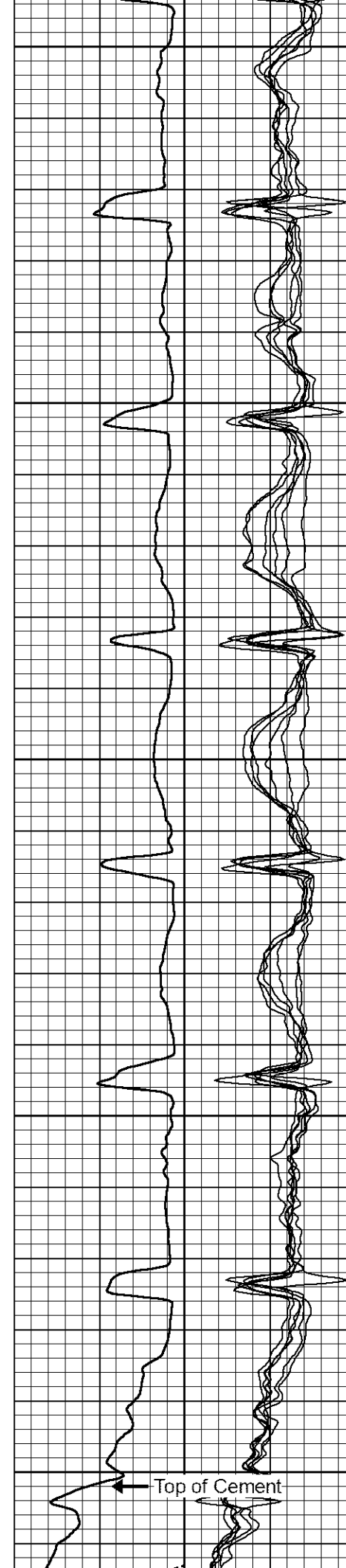
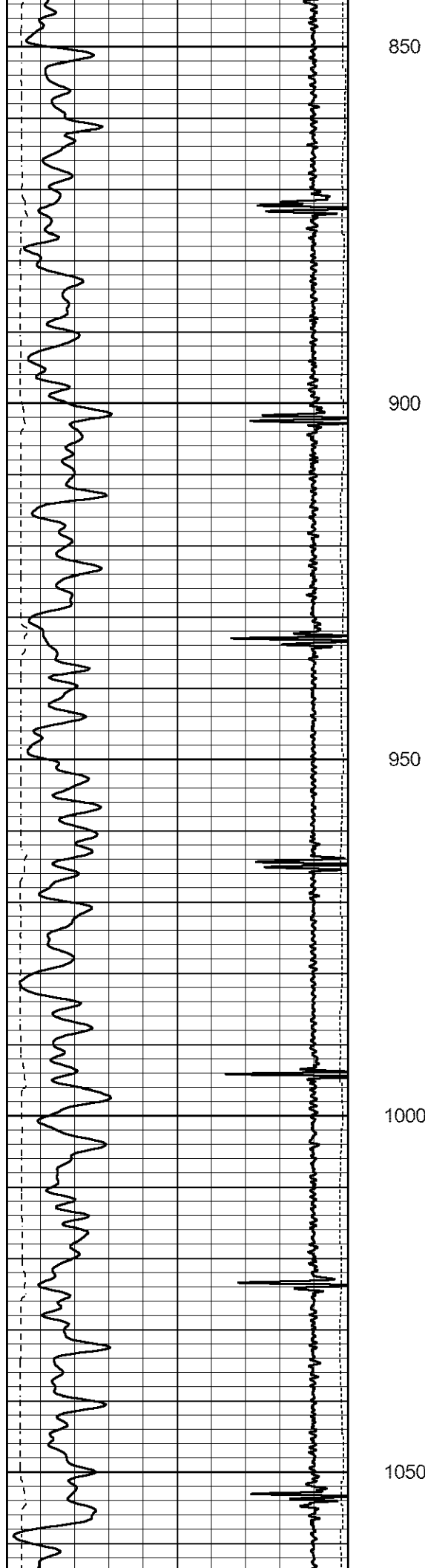
700

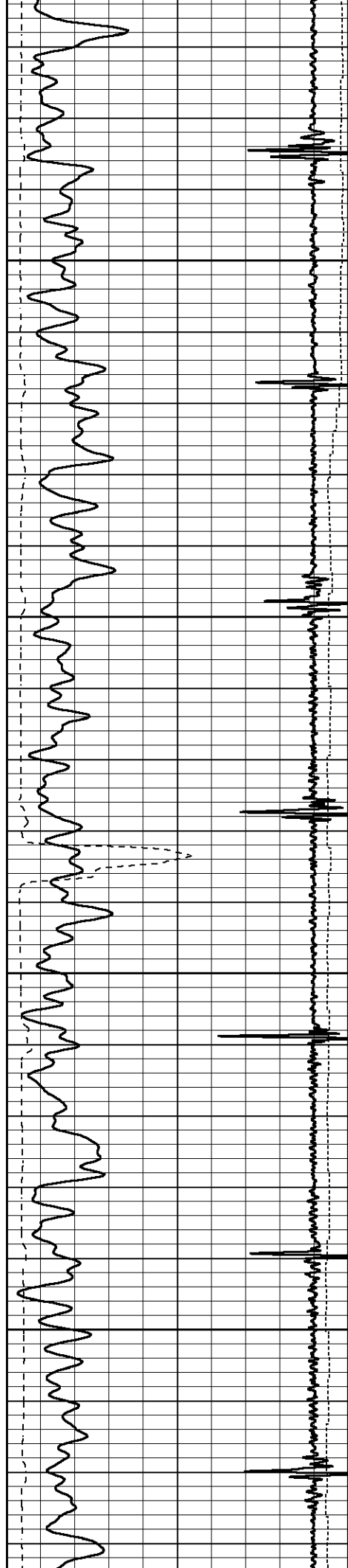
750

800







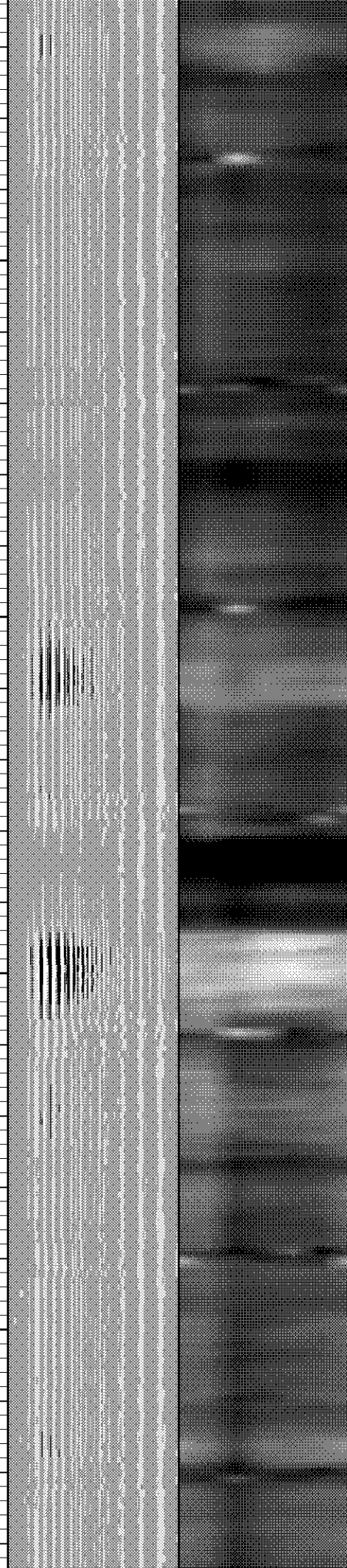
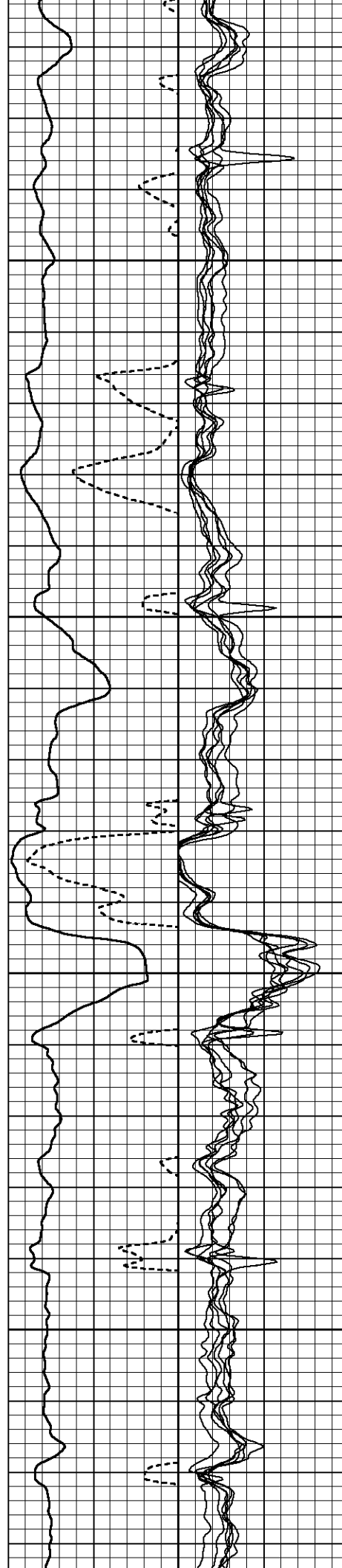


1100

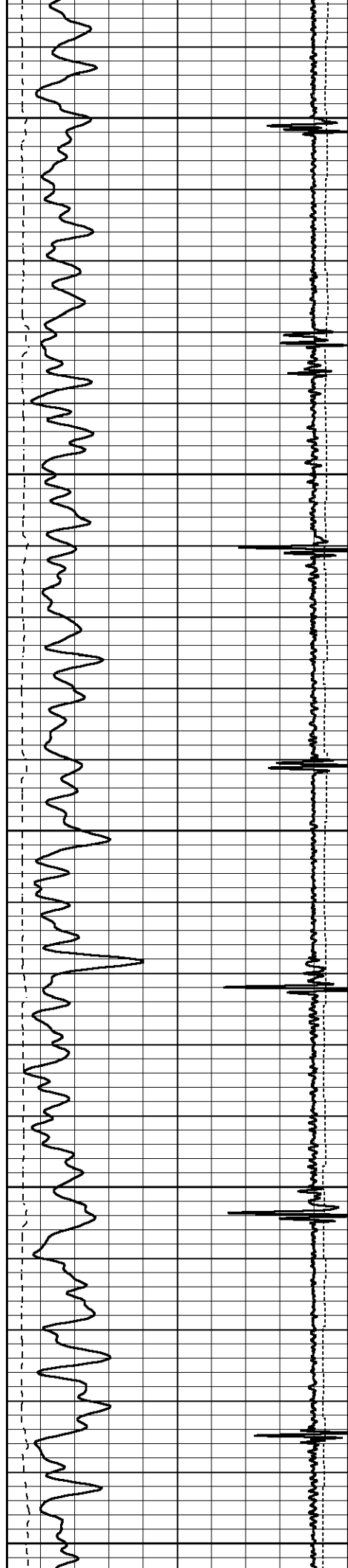
1150

1200

1250







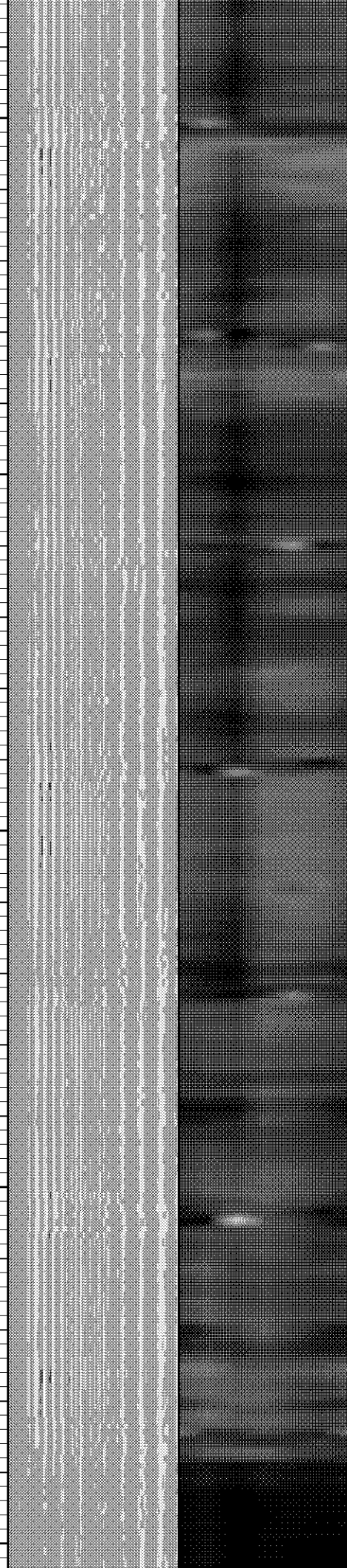
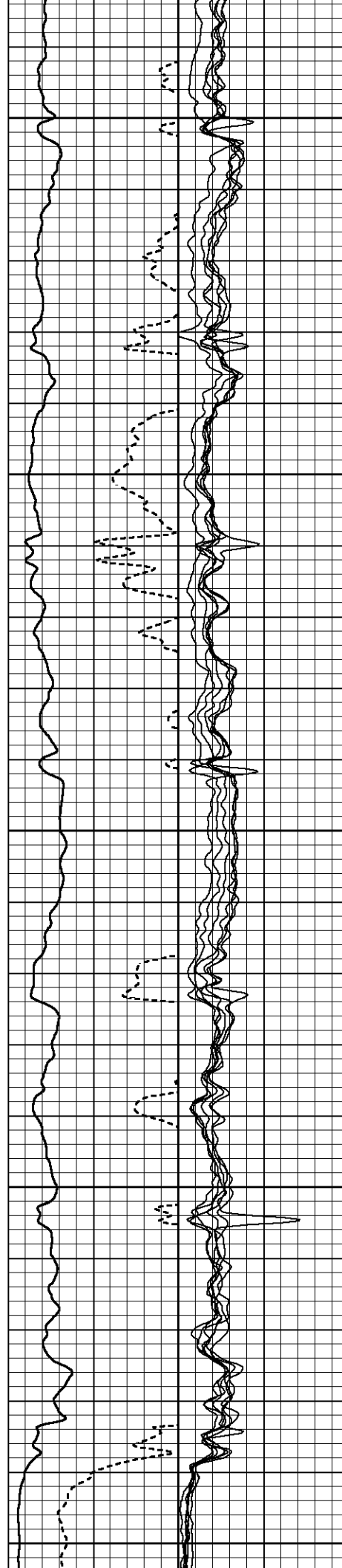
1300

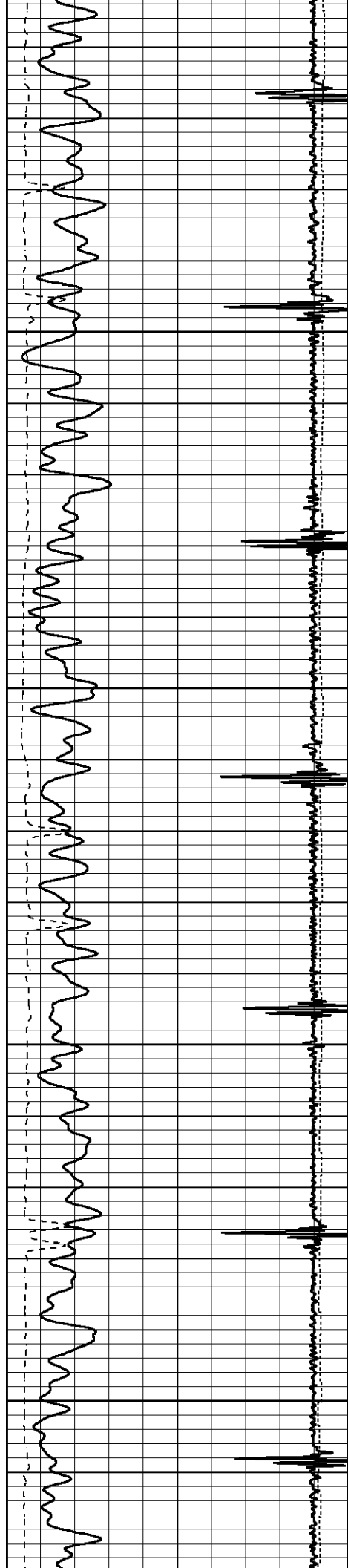
1350

1400

1450

1500



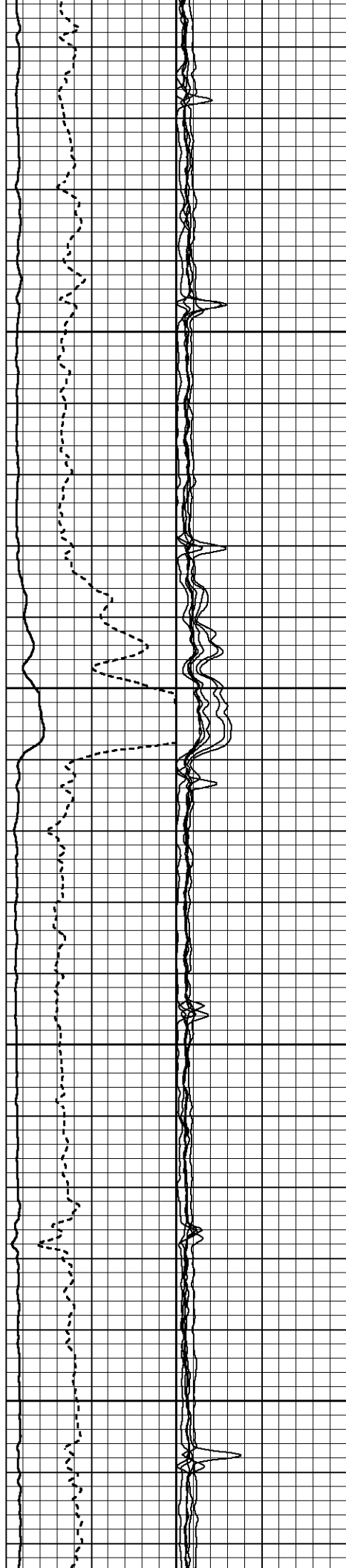


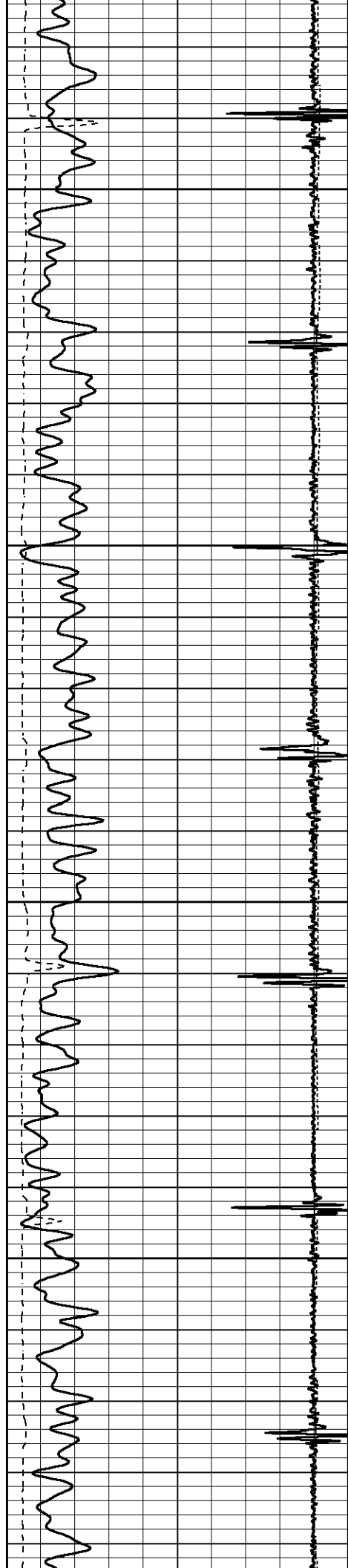
1550

1600

1650

1700



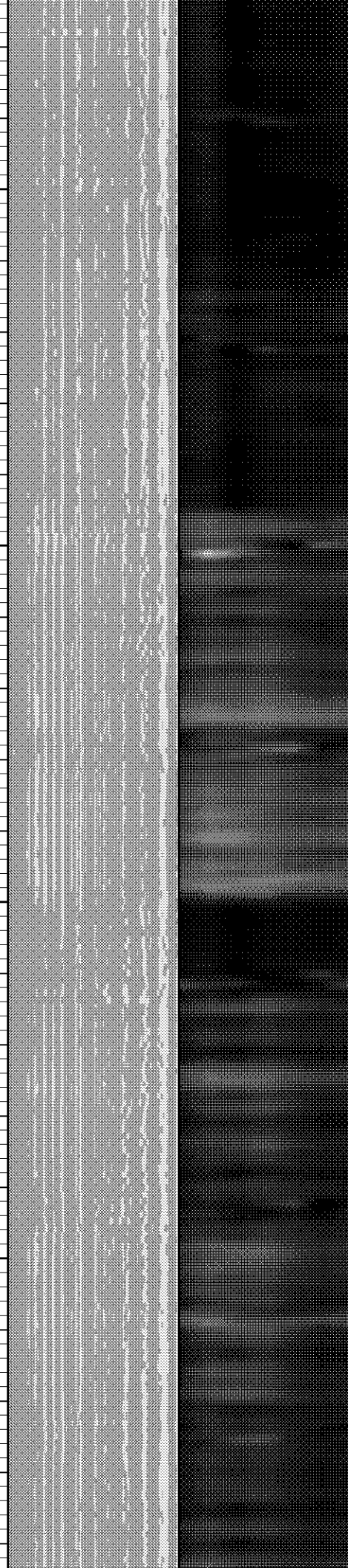
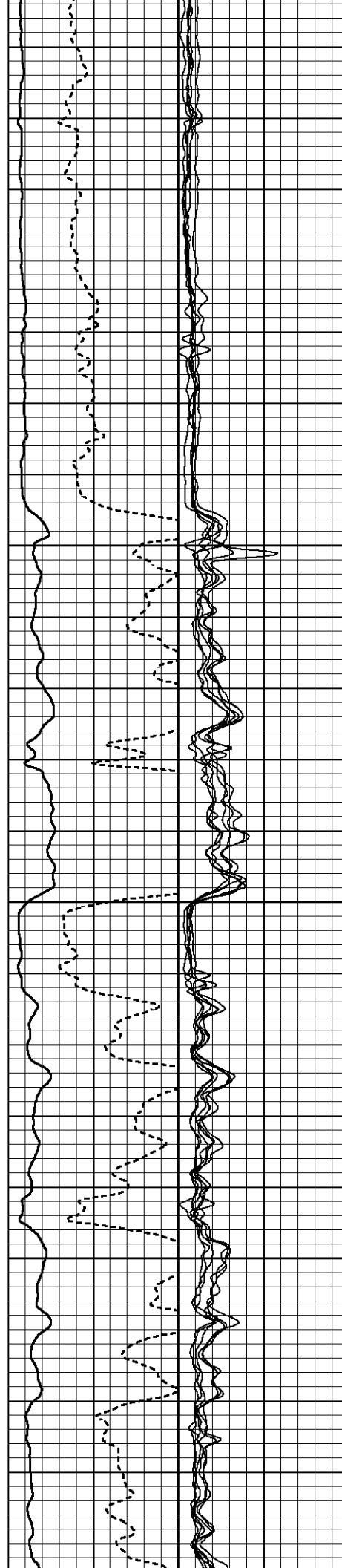


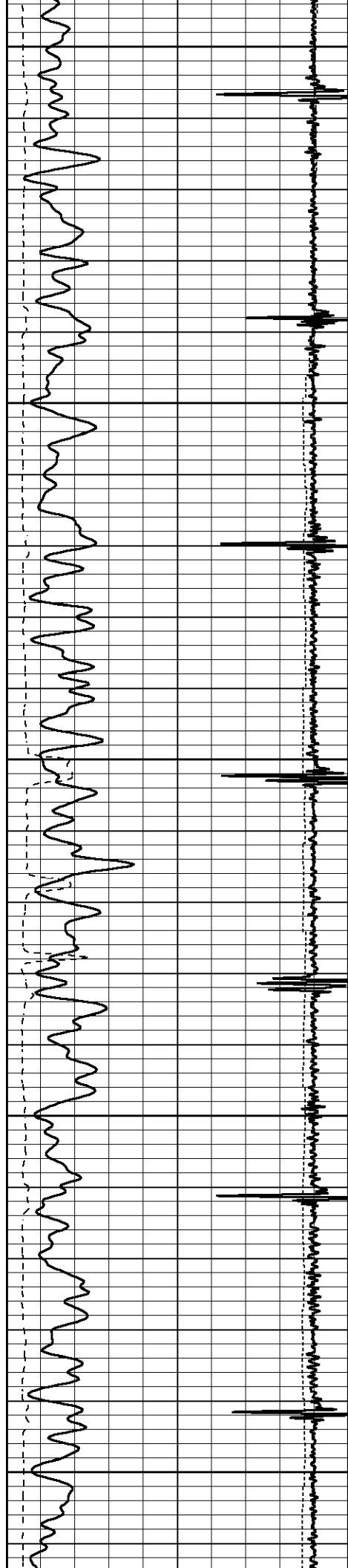
1750

1800

1850

1900





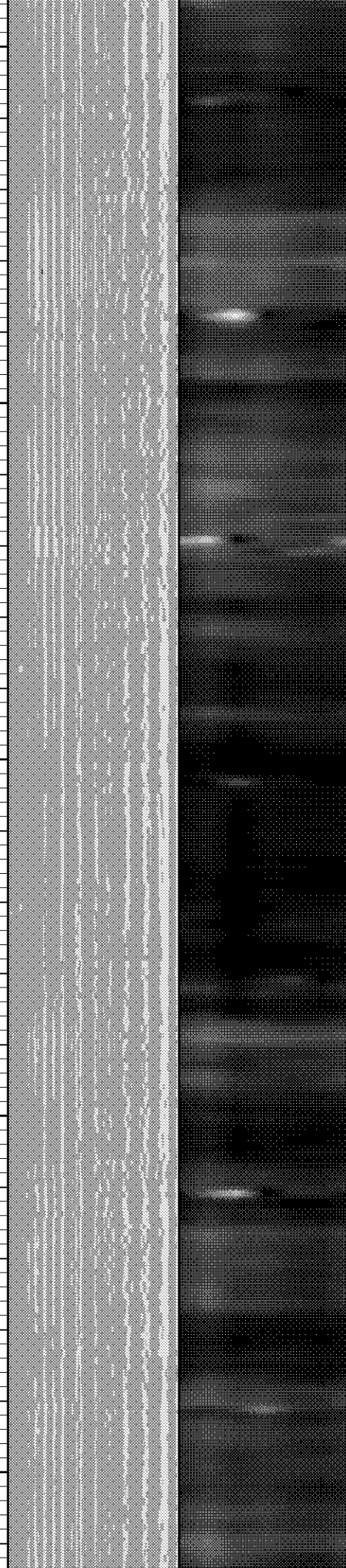
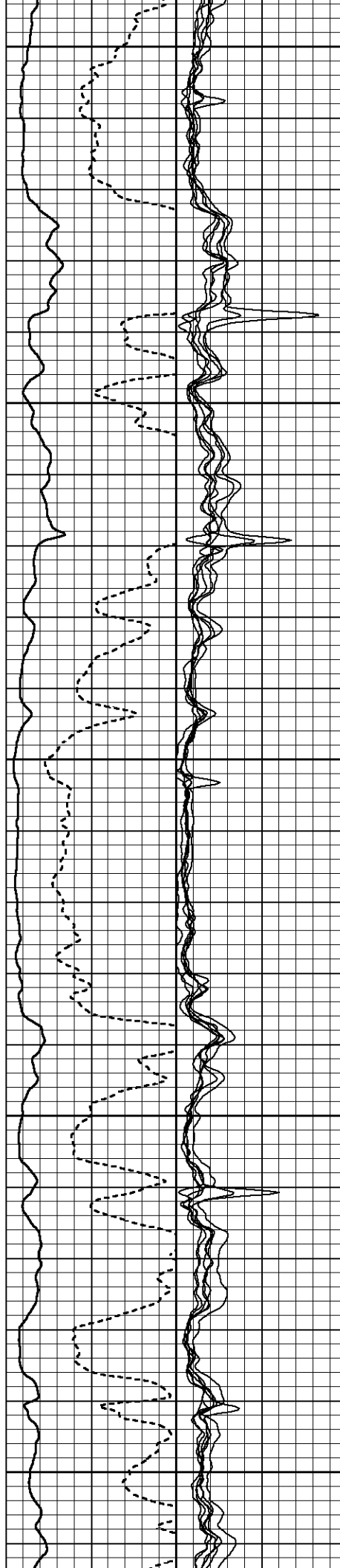
1950

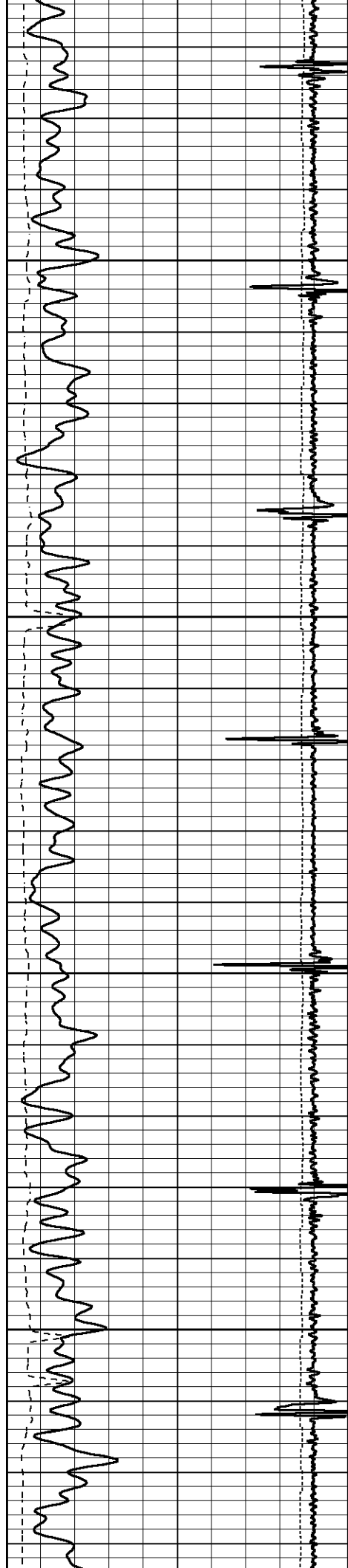
2000

2050

2100

2150



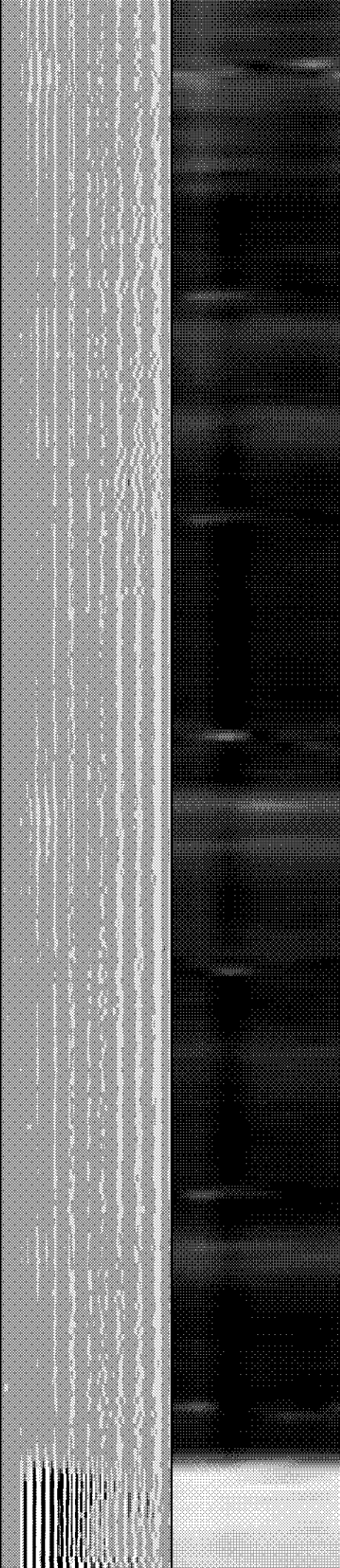
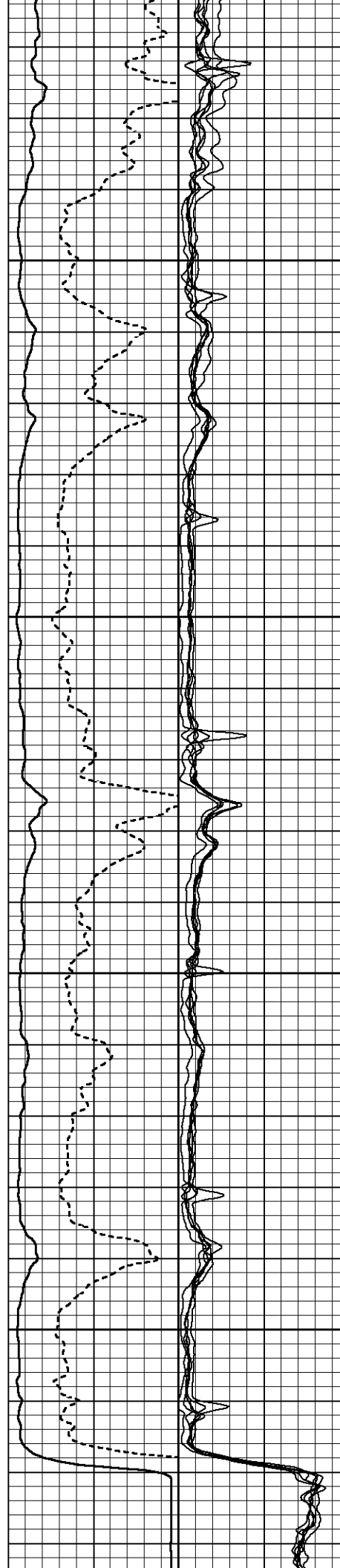


2200

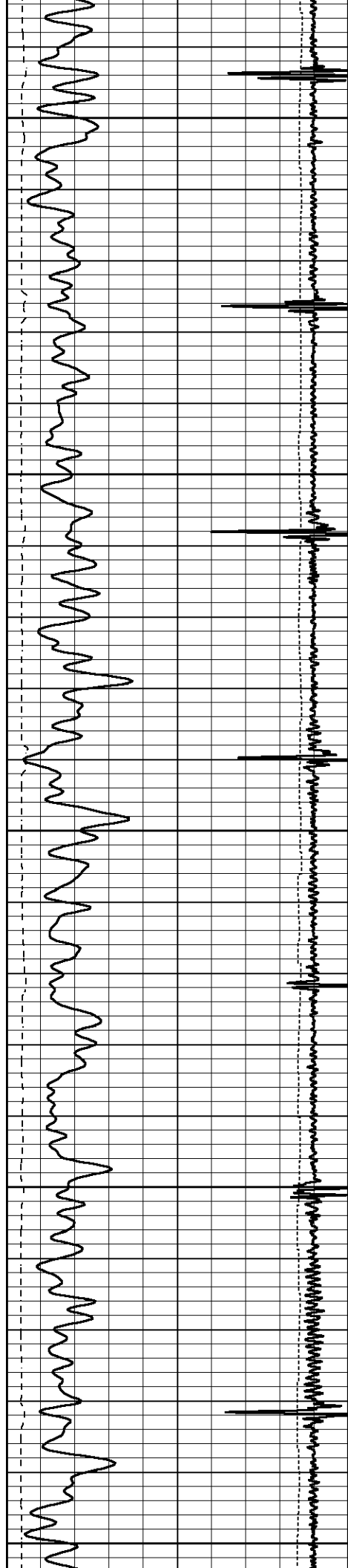
2250

2300

2350







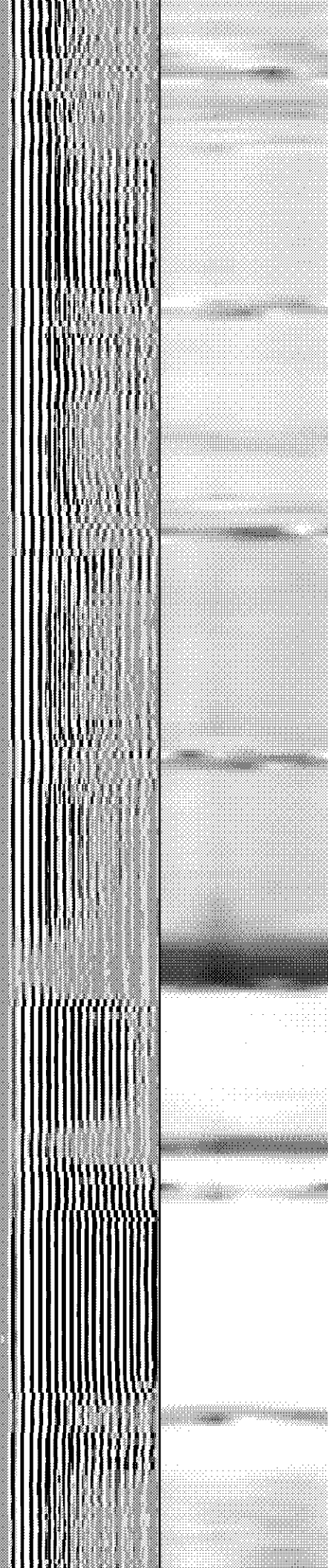
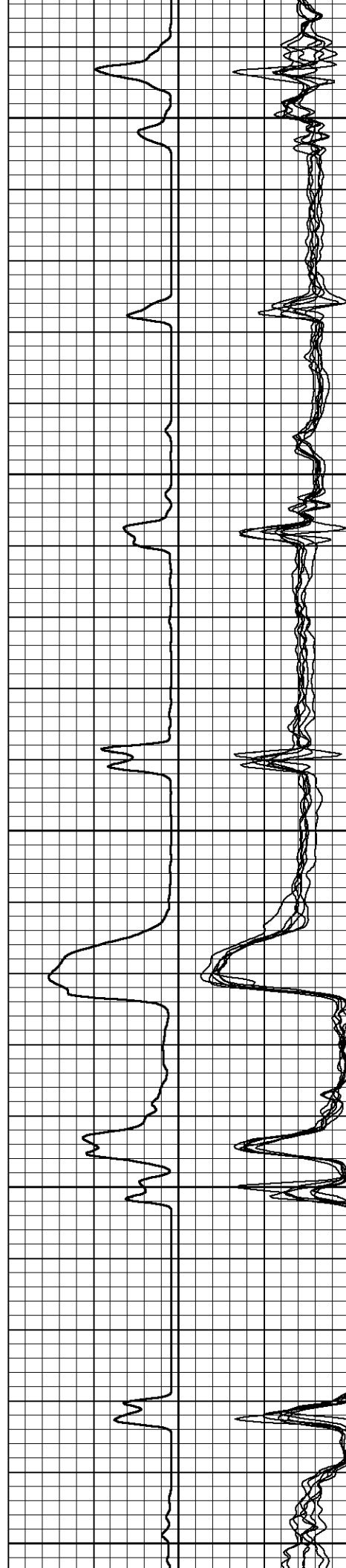
2400

2450

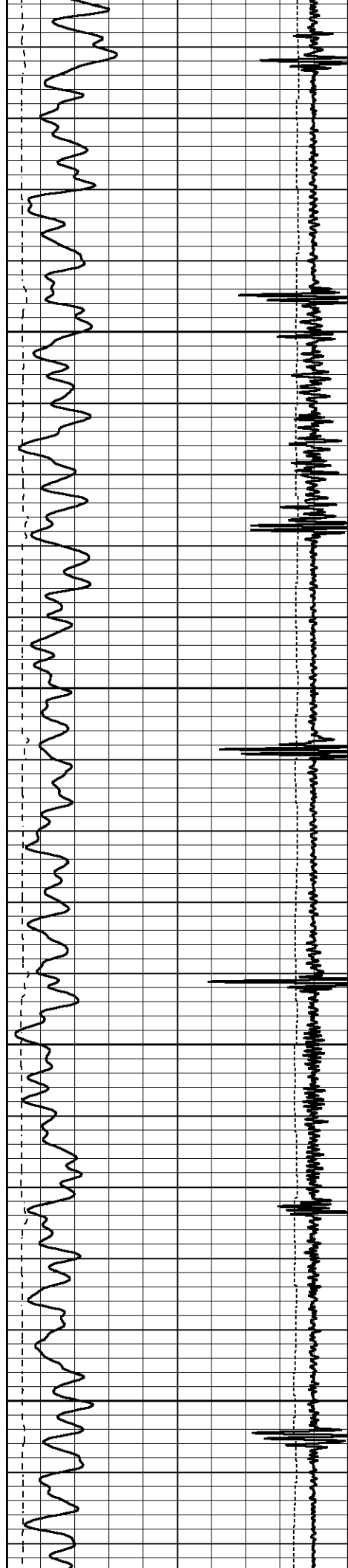
2500

2550

2600





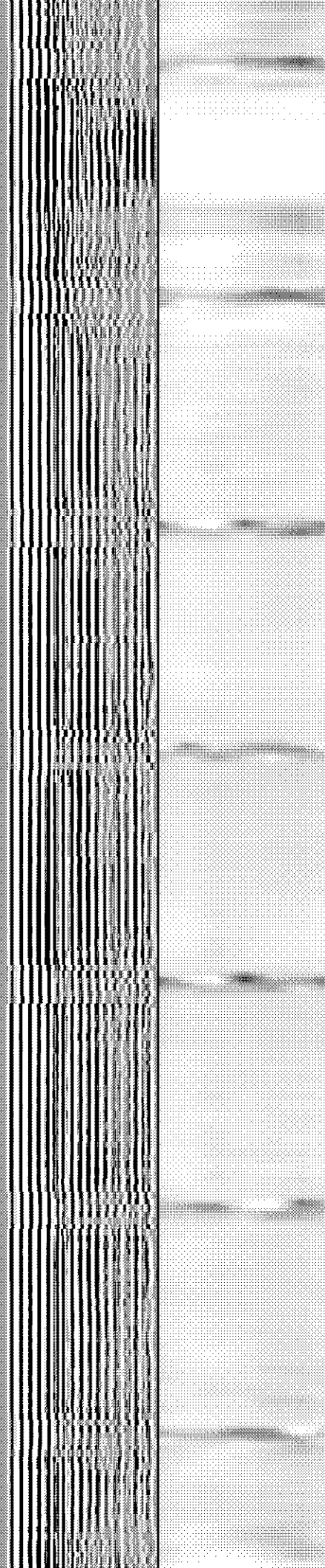
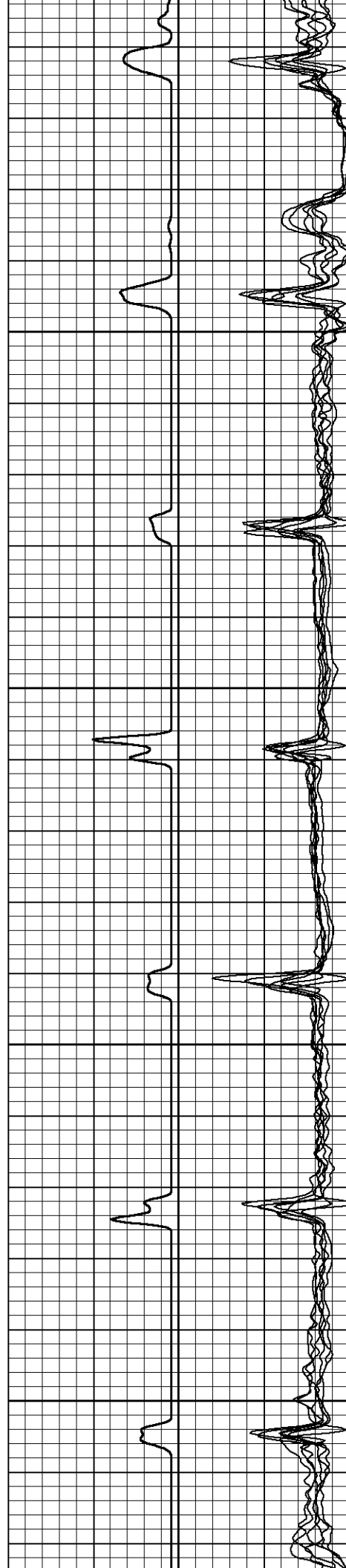


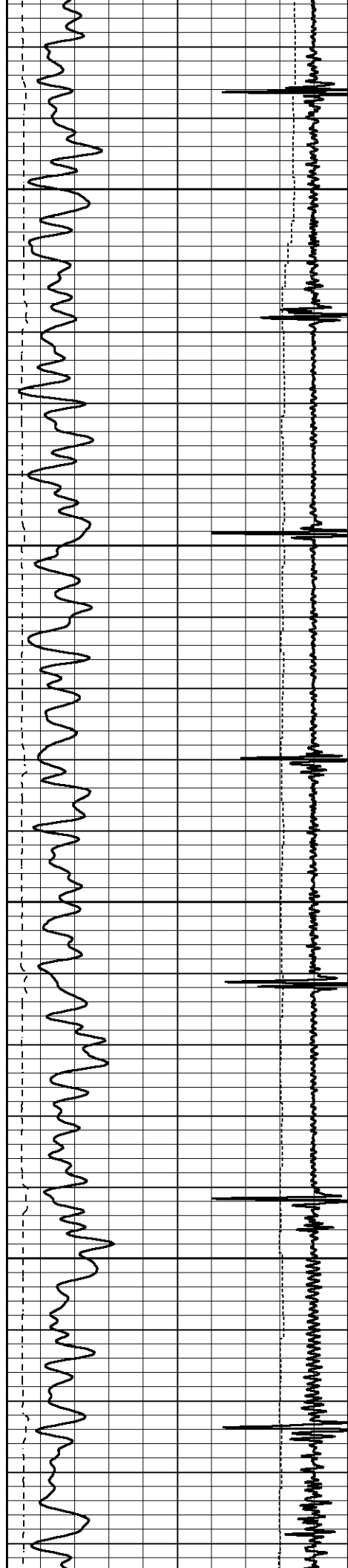
2650

2700

2750

2800



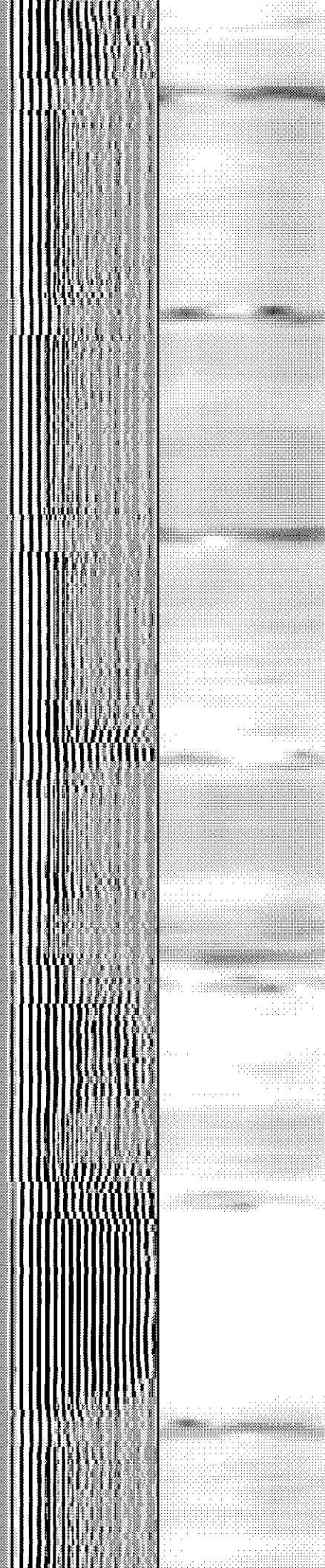
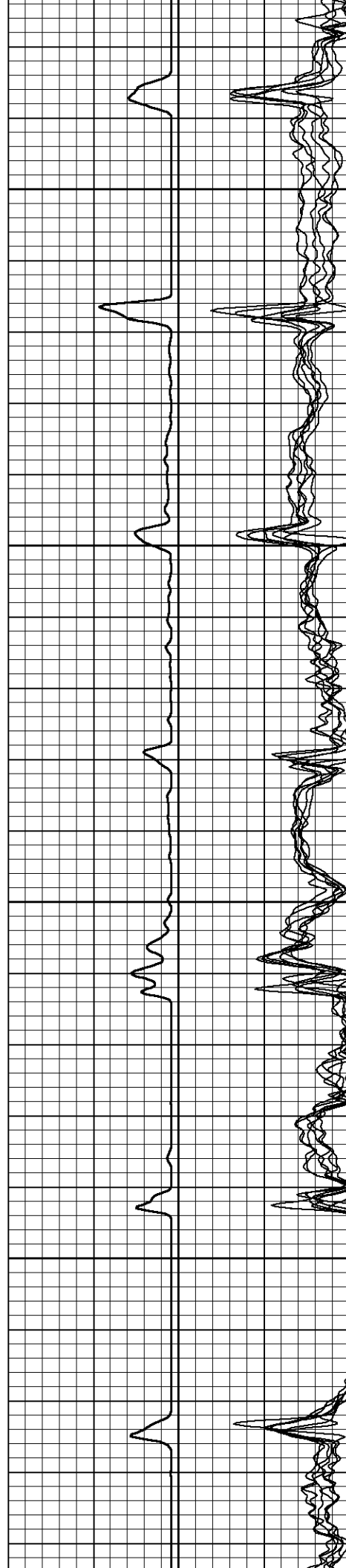


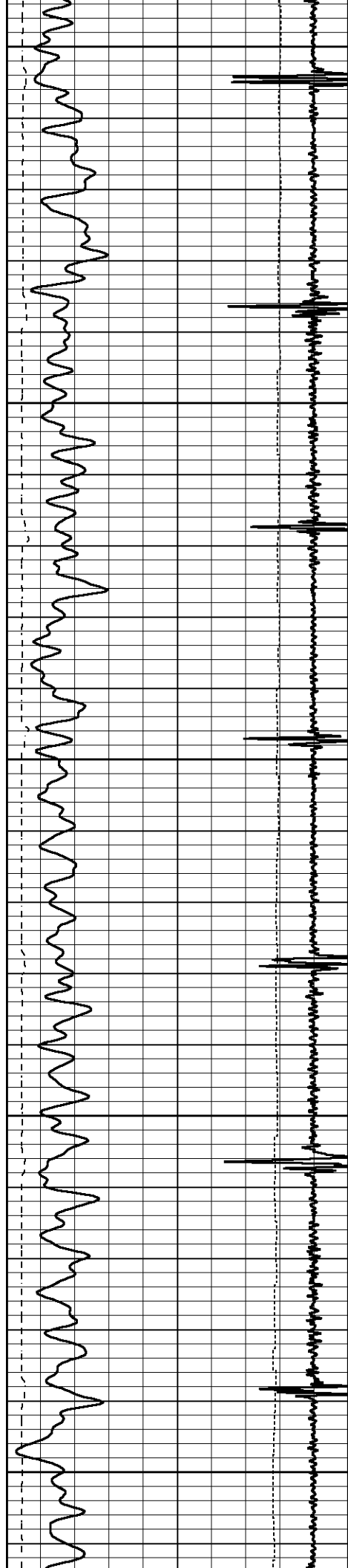
2850

2900

2950

3000





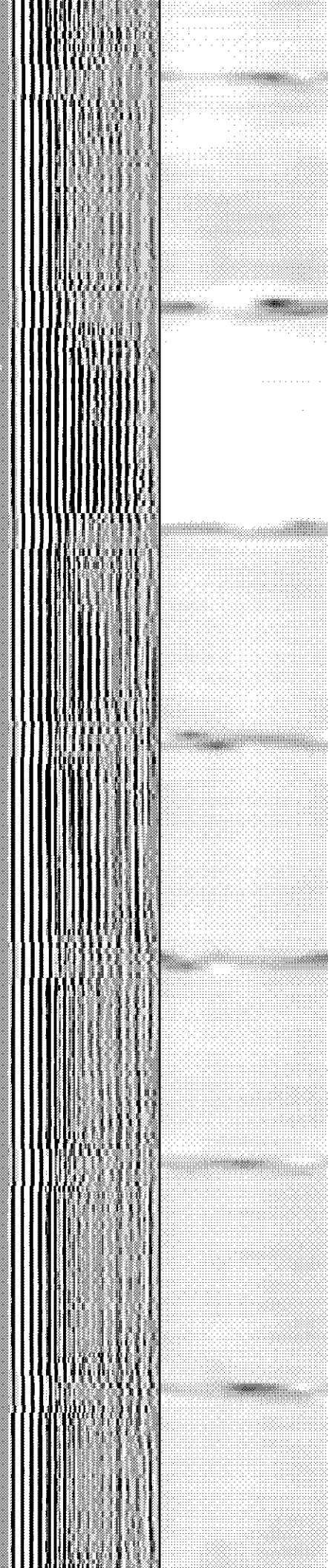
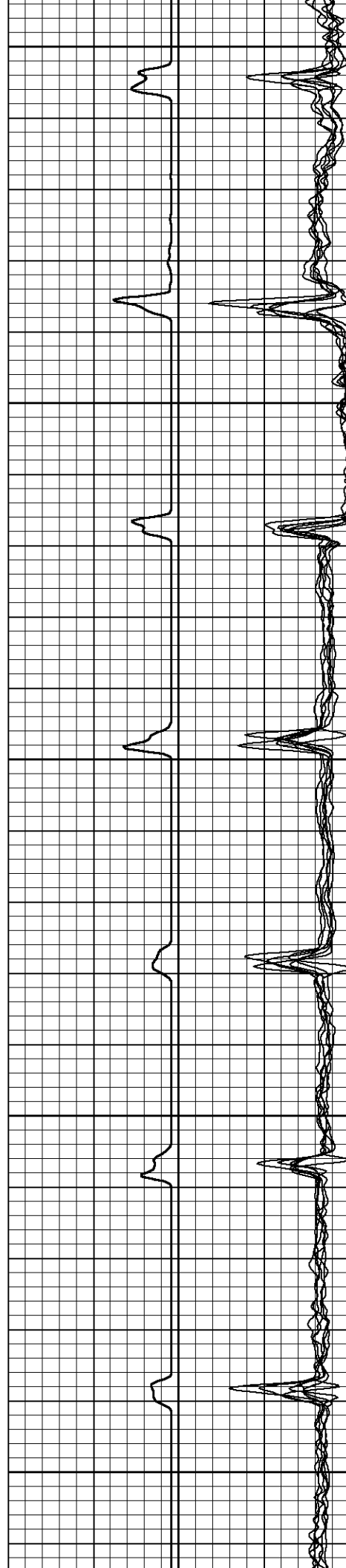
3050

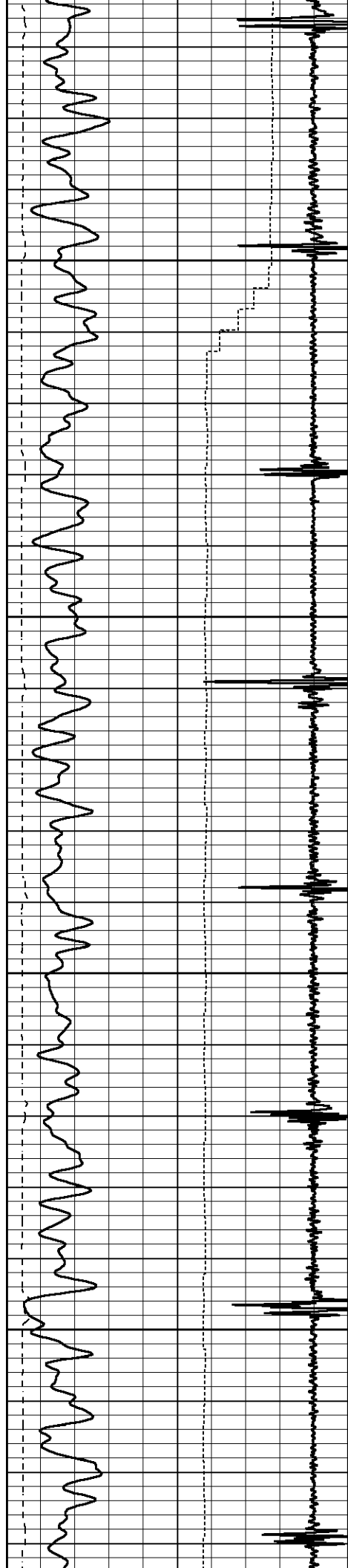
3100

3150

3200

3250



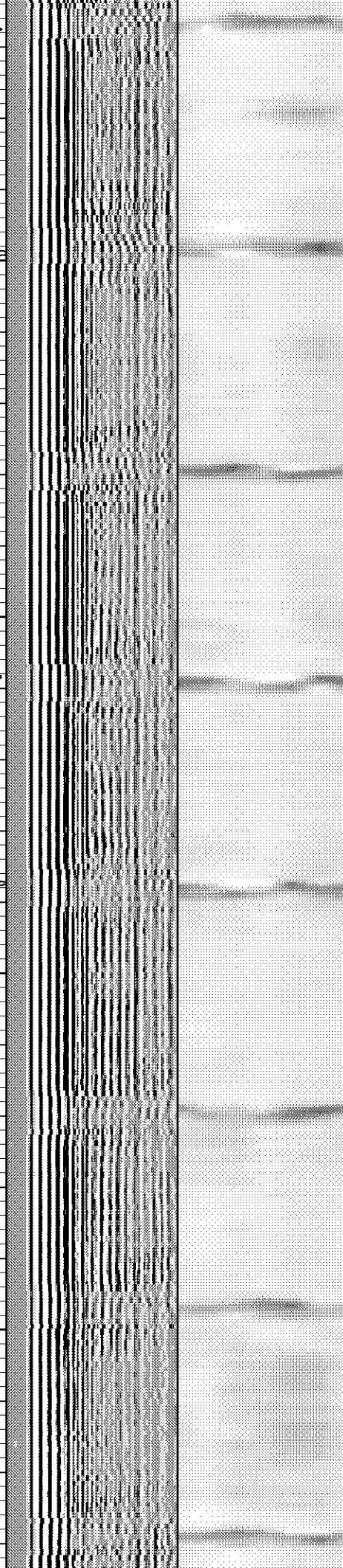
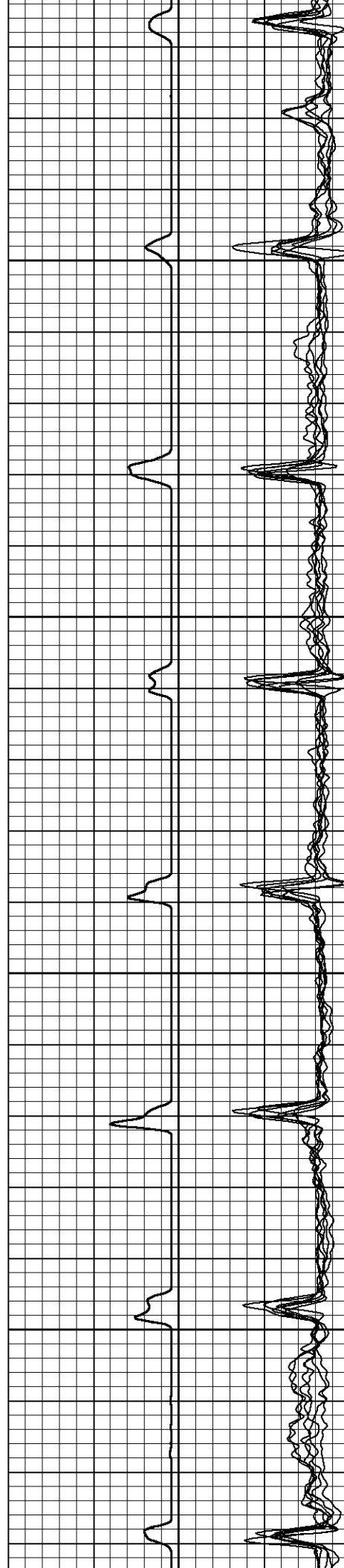


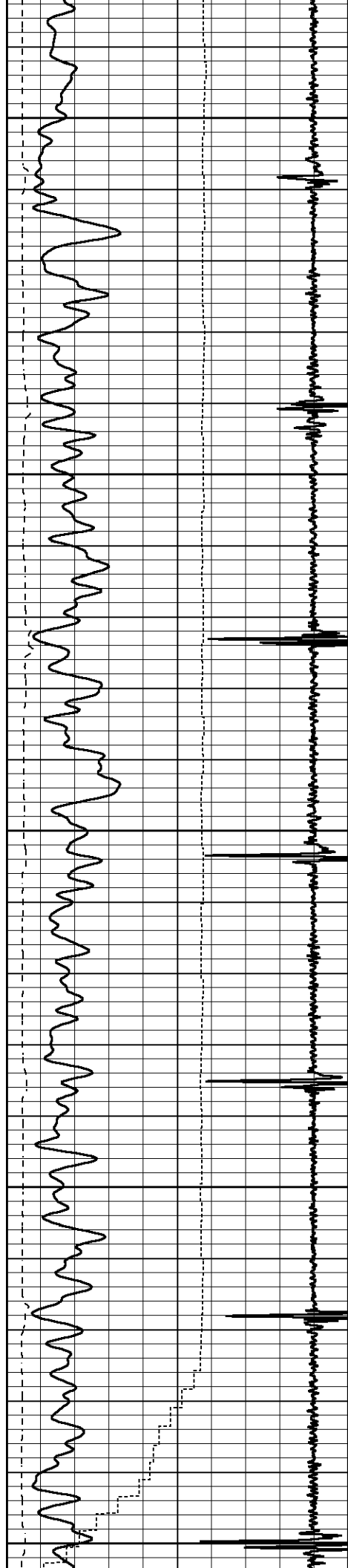
3300

3350

3400

3450





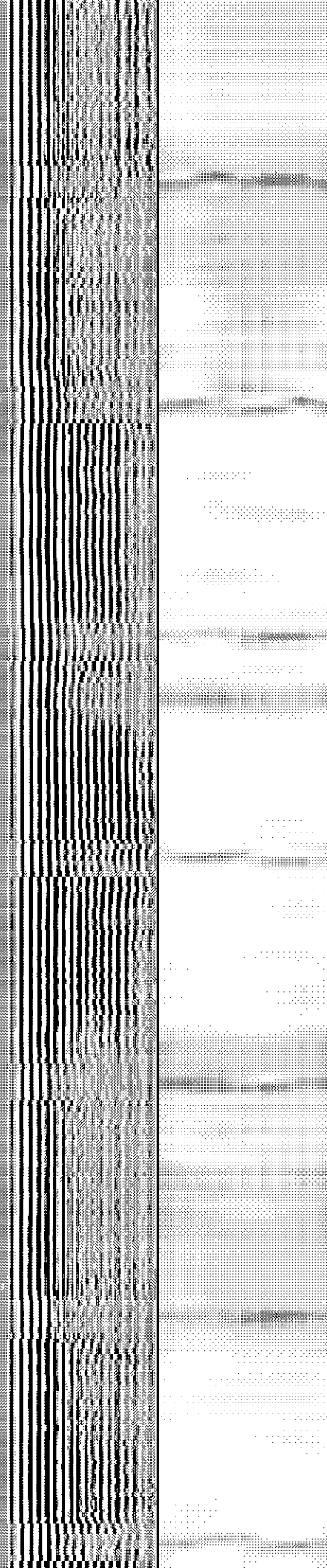
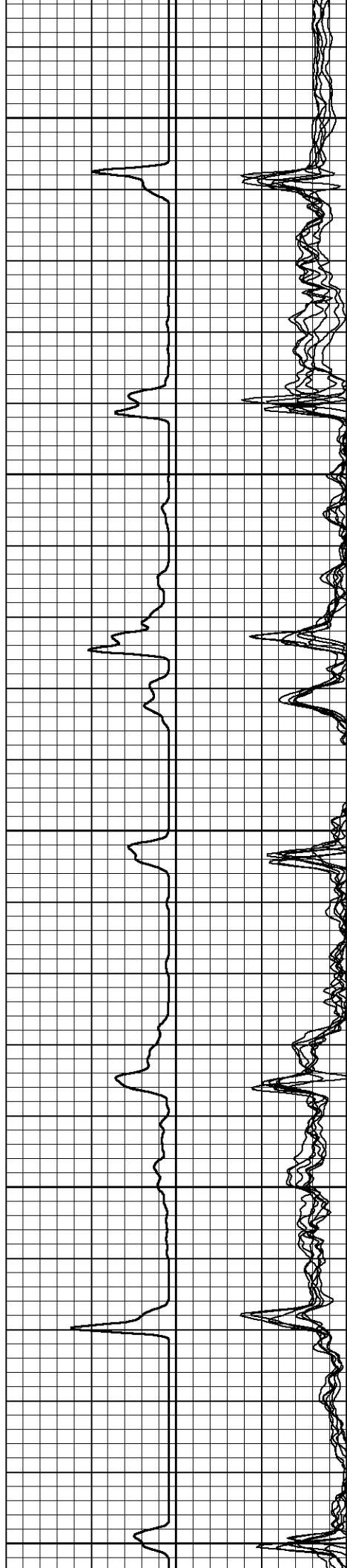
3500

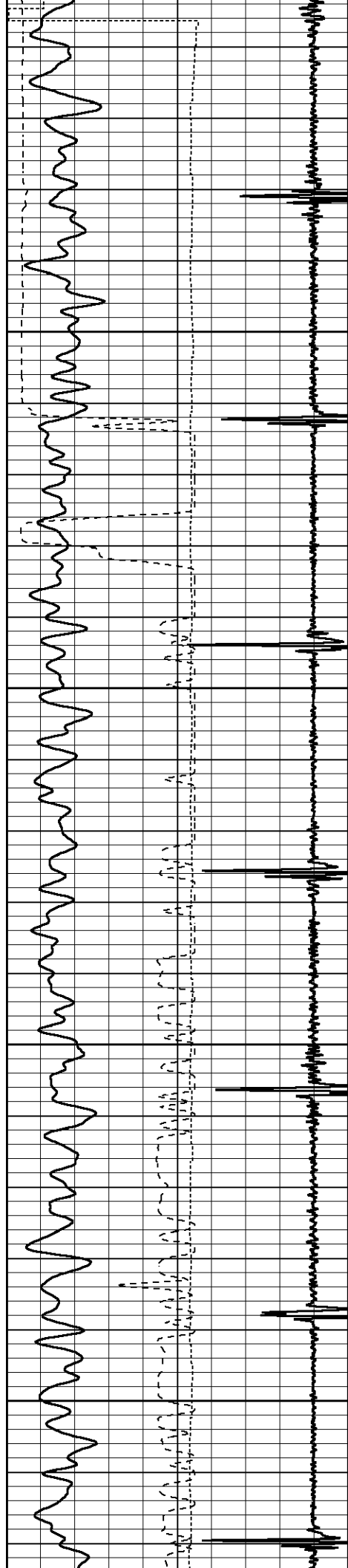
3550

3600

3650

3700



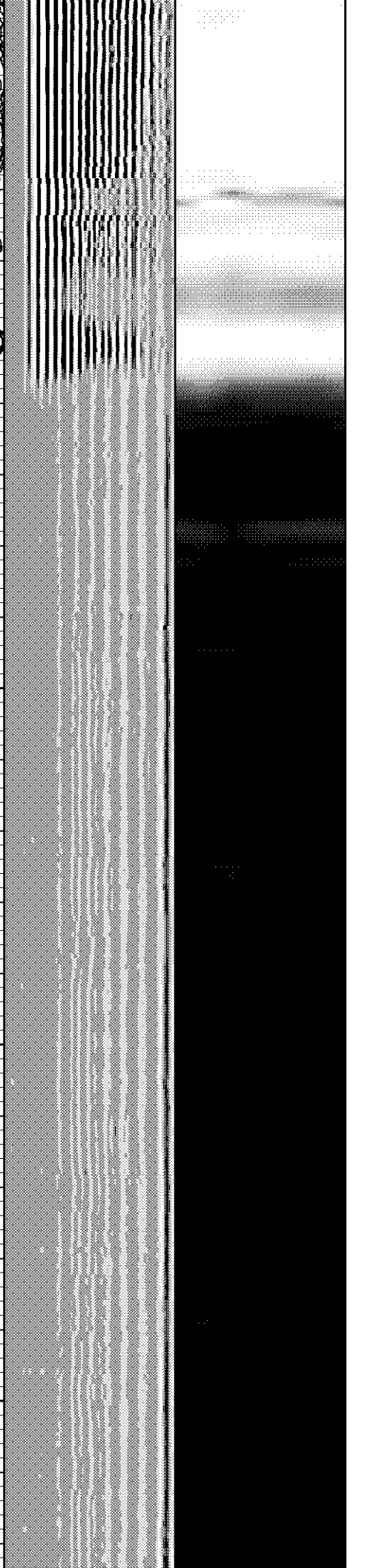
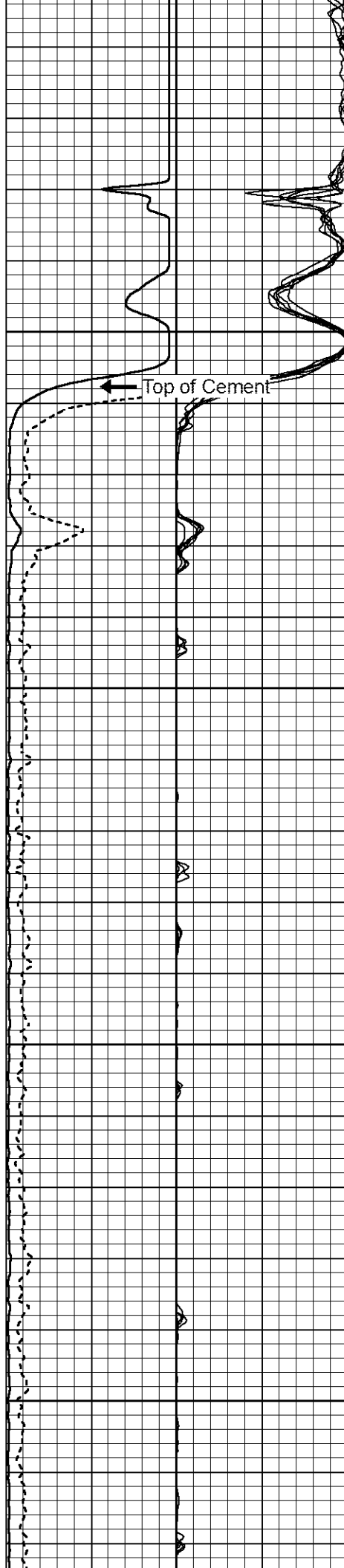


3750

3800

3850

3900





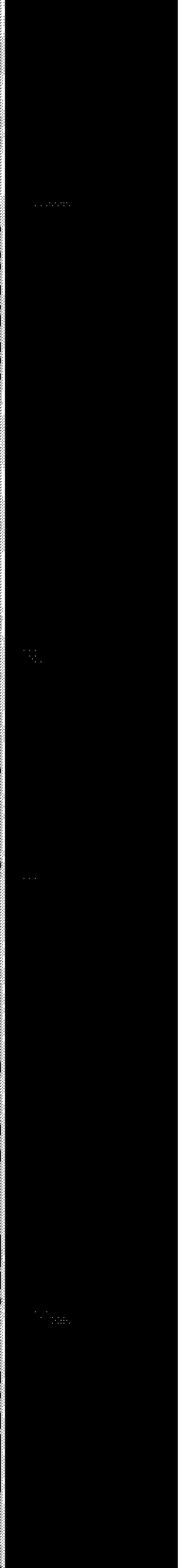
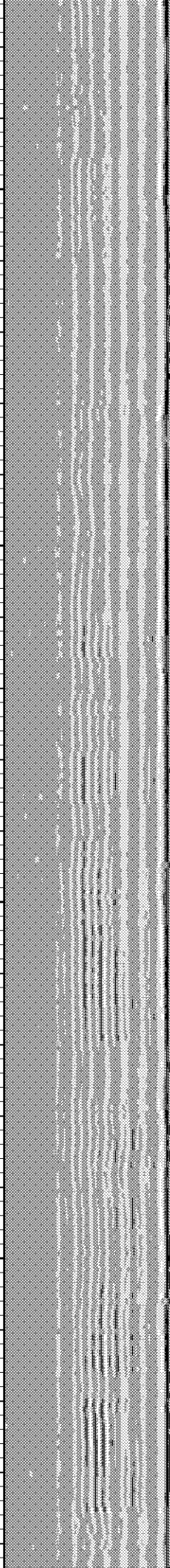
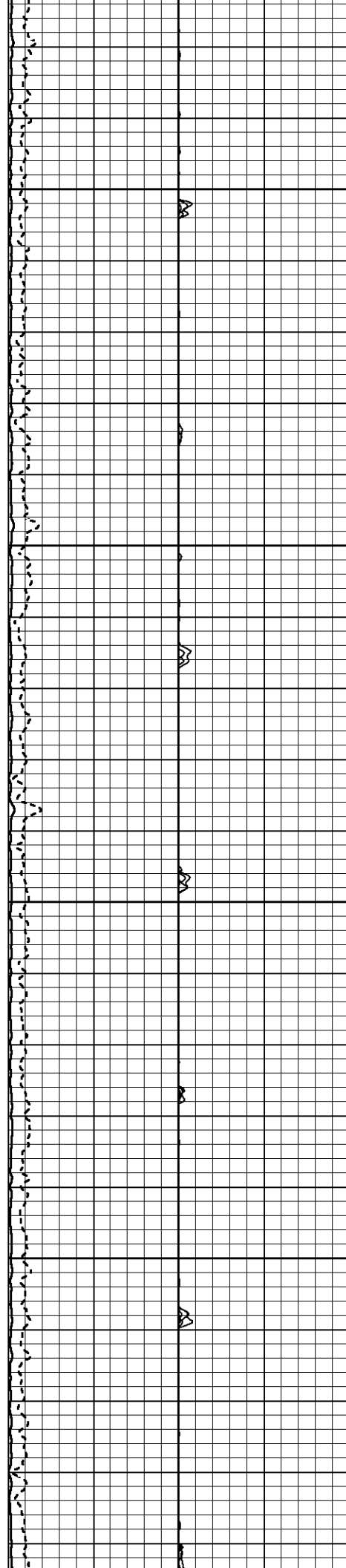


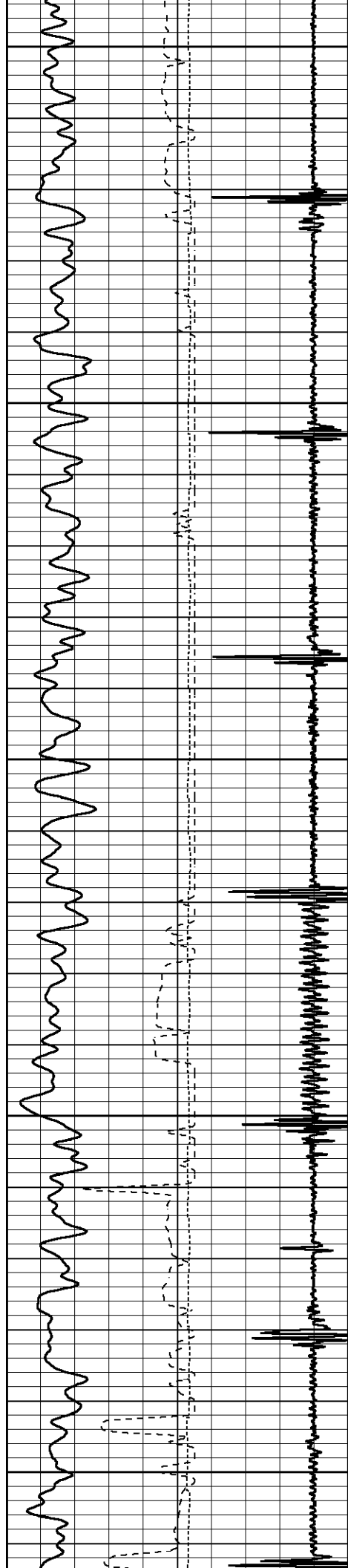
3950

4000

4050

4100





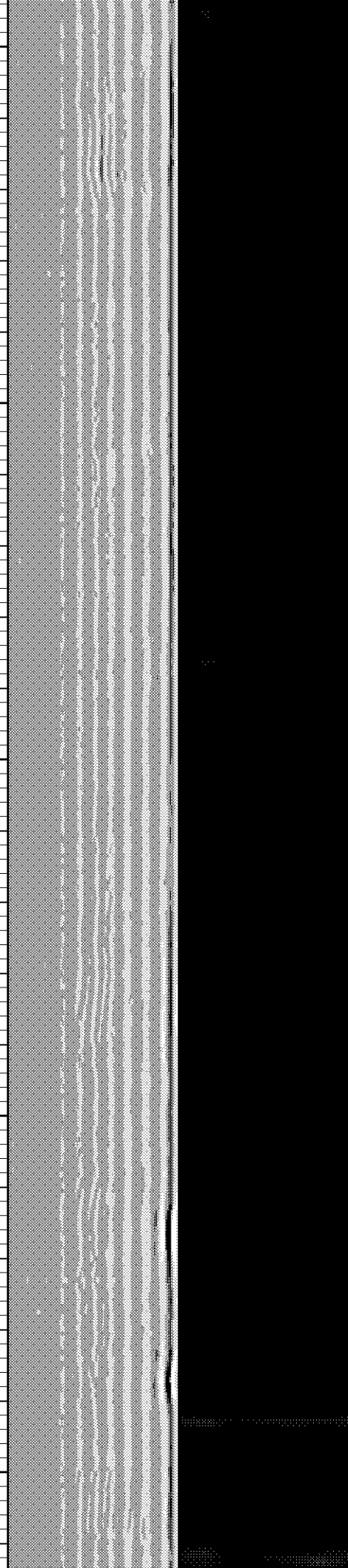
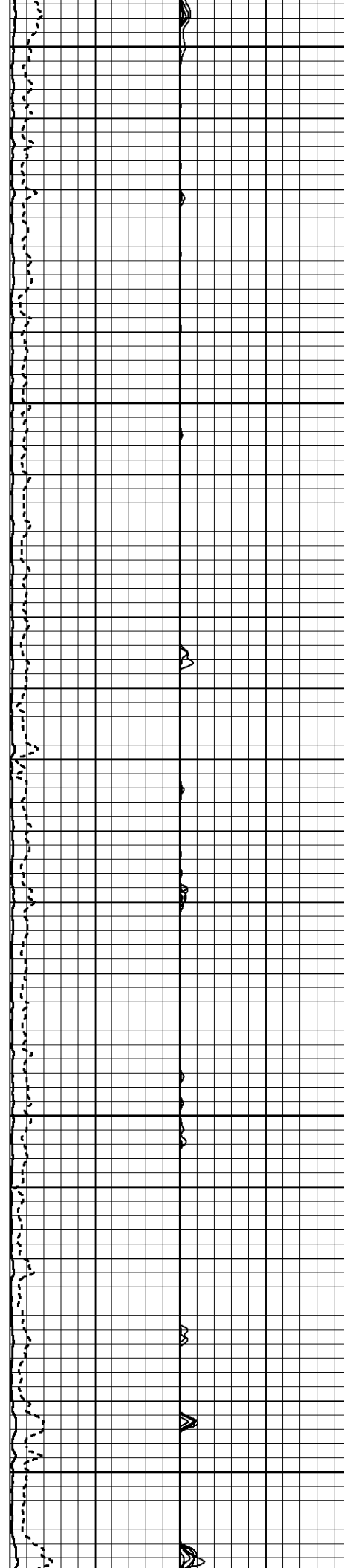
4150

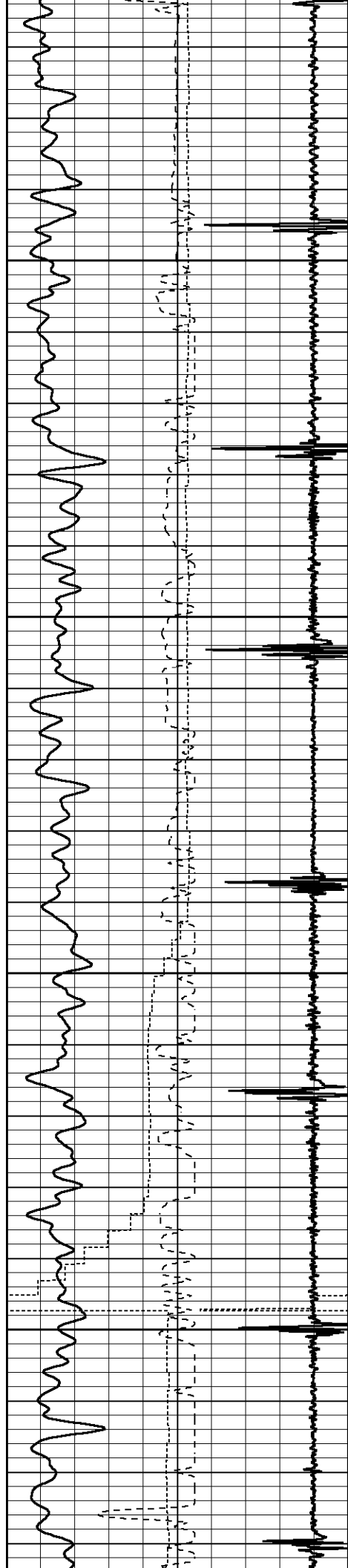
4200

4250

4300

4350



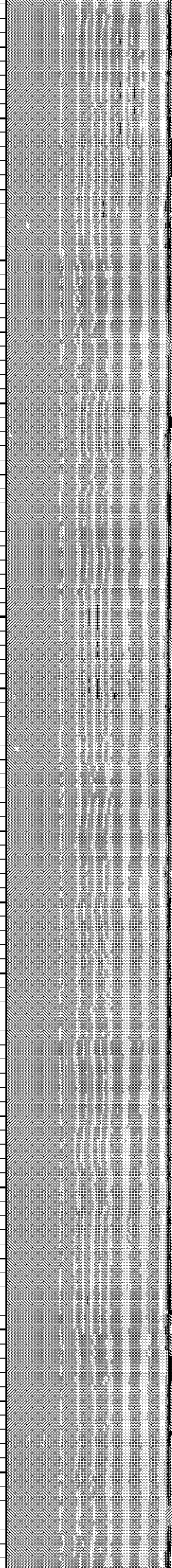
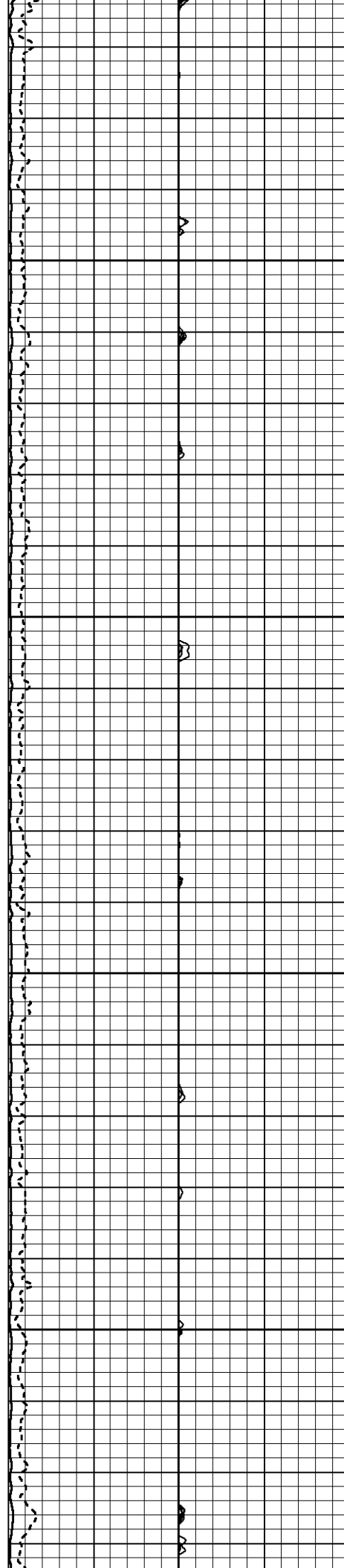


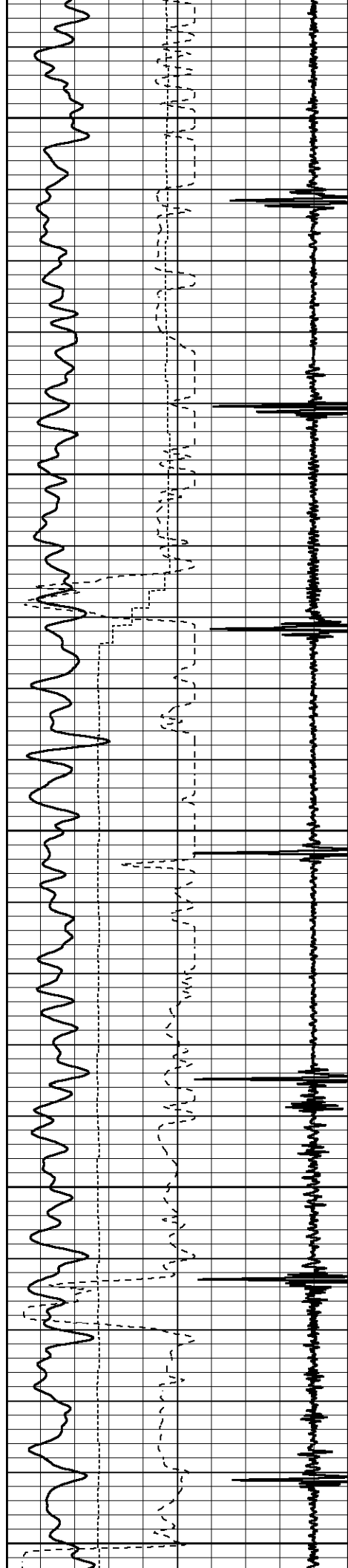
4400

4450

4500

4550





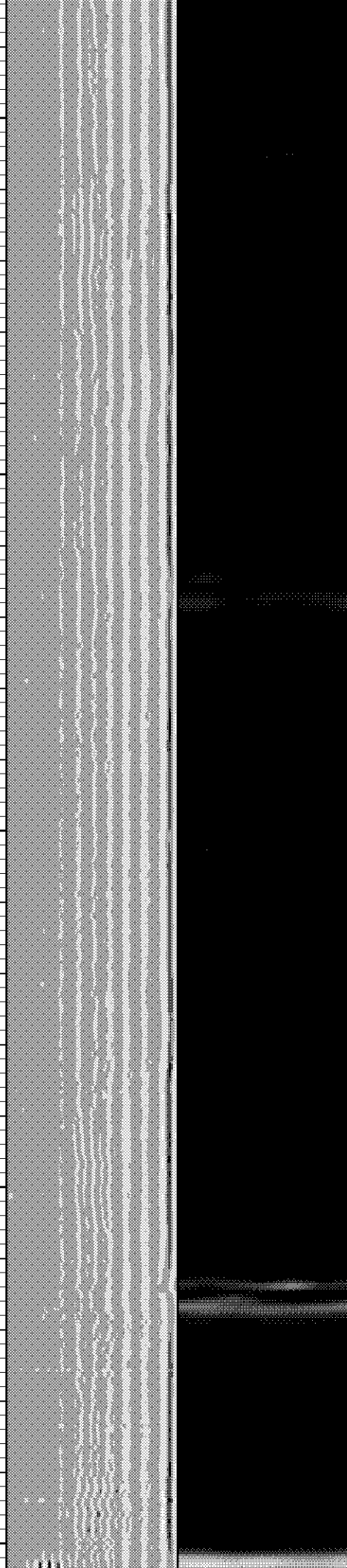
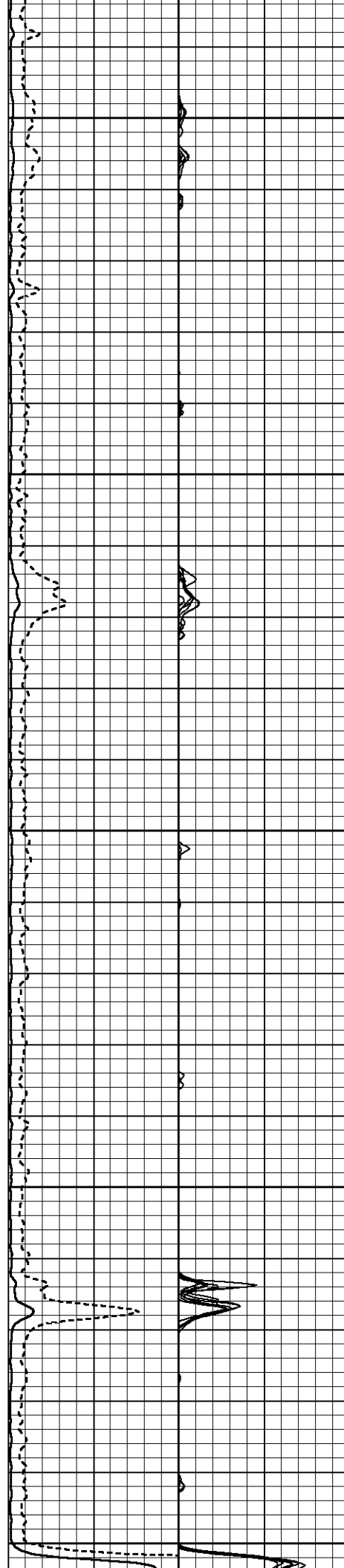
4600

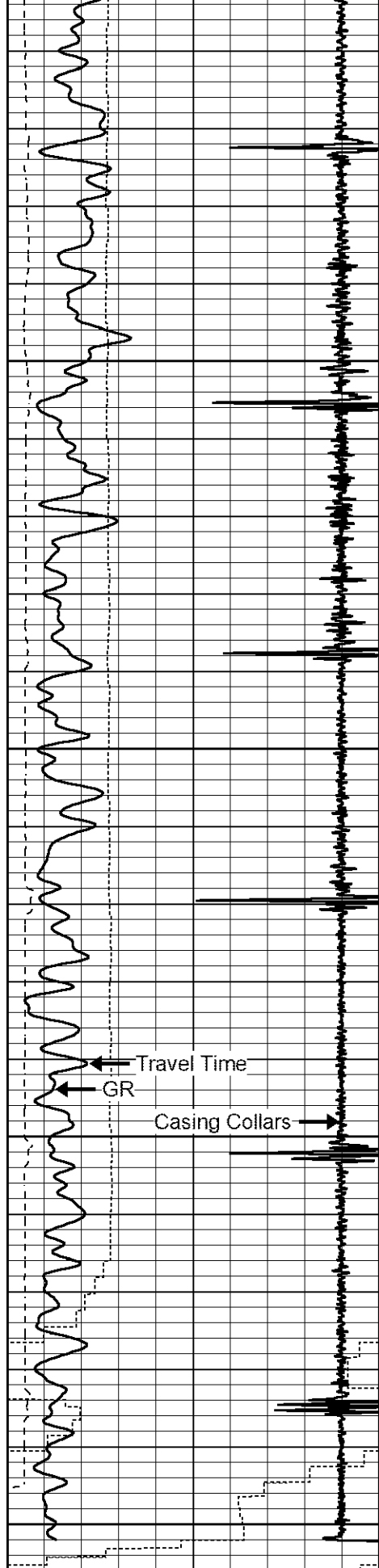
4650

4700

4750

4800





4850

4900

4950

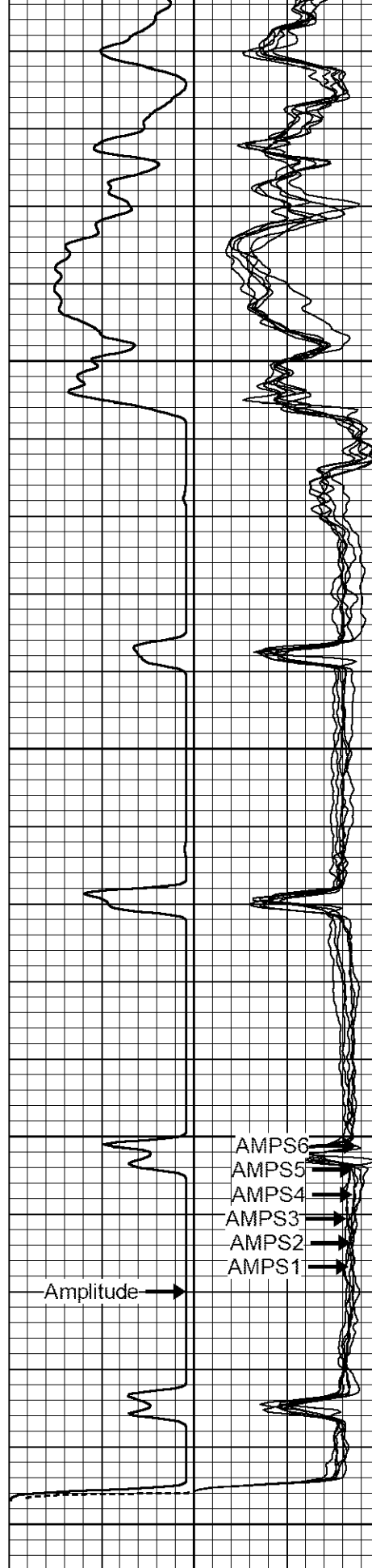
5000

Travel Time

GR

Casing Collars

200	Travel Time (usec)	600
9	Casing Collars	-1
0	Line Speed (ft/min)	100
0	GR (cps)	150



Amplitude

AMPS6

AMPS5

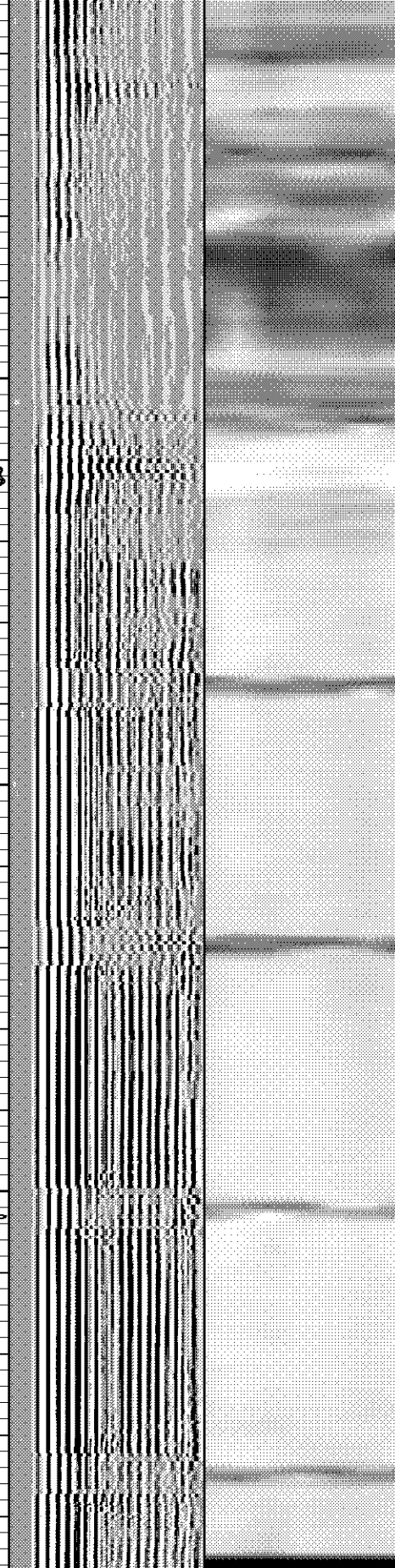
AMPS4

AMPS3

AMPS2

AMPS1

0	Amplitude	100
0	(mV)	100
0	X5 (mV)	20
0	AMPS1	100
0	AMPS2	100
0	AMPS3	100
0	AMPS4	100



200	VDL	1200
1	Sector Map	6

0	AMPS5	100
0	AMPS6	100

Calibration Report		
Database File	karch blue d 12-11.db	
Dataset Pathname	run5/pass8	
Dataset Creation	Tue Jun 08 12:31:55 2021	

Gamma Ray Calibration Report
------------------------------

Serial Number:	16GRL14-XXXX	
Tool Model:	16GRL14	
Performed:	(Not Performed)	
Calibrator Value:	1.0	cps
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	cps/cps

Segmented Cement Bond Log Calibration Report
--

Serial Number:	16SBT20-0619	
Tool Model:	T169Temp	
Calibration Casing Diameter:	2.875	in
Calibration Depth:	3010.472	ft

Master Calibration, performed Tue Jun 8 12:23:46 2021:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.013	2.500	1.000	96.000	37.801	1.497
CAL	-0.011	1.469				
5'	-0.012	1.197	1.000	96.000	78.585	1.949
SUM						
S1	0.021	2.333	0.000	96.000	41.529	-0.890
S2	0.021	2.373	0.000	96.000	40.821	-0.864
S3	0.021	2.168	0.000	96.000	44.723	-0.947
S4	0.021	2.262	0.000	96.000	42.850	-0.912
S5	0.021	2.063	0.000	96.000	47.017	-1.005
S6	0.021	2.145	0.000	96.000	45.195	-0.958
S7						
S8						


Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.011	1.469	1.000	0.000

Air Zero Calibration, performed Tue Jun 8 12:04:45 2021:						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	



S	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			
S8			

Temperature Calibration Report					
Serial Number:		16SBT20-0619			
Tool Model:		T169Temp			
Performed:		Mon Mar 22 12:06:35 2021			
		Reference		Reading	
Low Reference:		0.00	degF	0.00	usec
High Reference:		1.00	degF	1.00	usec
Gain:		0.33			
Offset:		0.00			
Delta Spacing		2			

<div>  <div> <div>Well Services</div> <div>E - LOGO</div> </div> </div>	Company	NOBLE ENERGY			
	Well	KARCH BLUE D12-11			
	Field	WATTENBERG			
	County	WELD			
	State	CO			
				Country	USA