

CEMENT BOND LOG

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HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.
Comments
LOG RECORDED IN 5.5" 20# CASING.
LOG RECORDED WITH 1000 PSI WHP.
LOG CORRELATED TO SHORT JOINT AT 7453'.
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

Service Ticket No.	905058438	API No.	050050726600	PGM Ver	WARRIOR 8.0
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
GAMMA/CCL		CBL			
Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	061016	Serial No.	6710	Serial No.	
Model No.	PROBE GR/CCL	Model No.	PROBE CBL	Model No.	
Diameter	2.75"	Diameter	2.75"	Diameter	
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

ONE	8082'	SURFACE	1000 PSI	100 PPM				
	GAMMA		AMPLITUDE					
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
	0	200	0	100				
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

MAIN PASS

HALLIBURTON

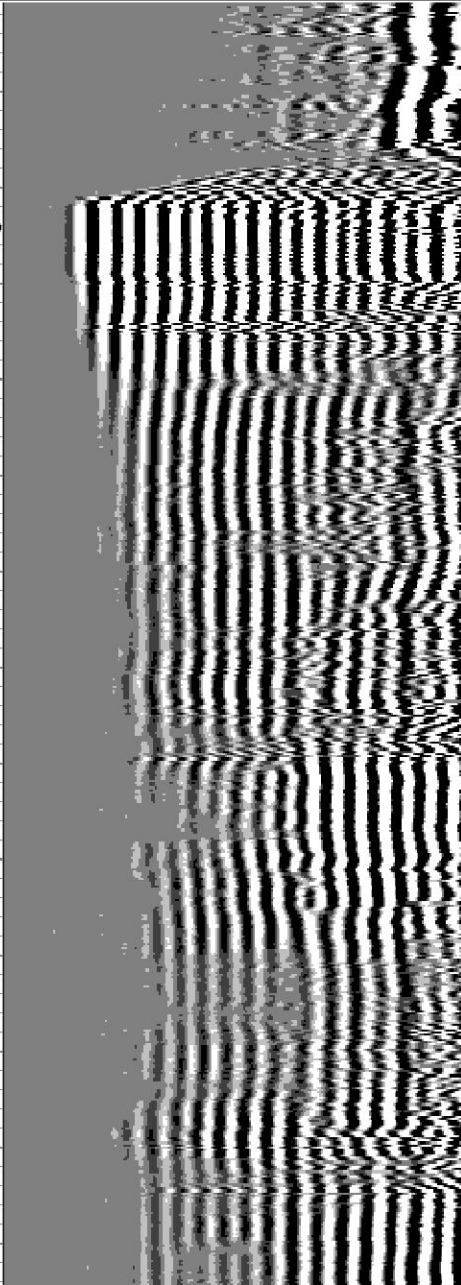
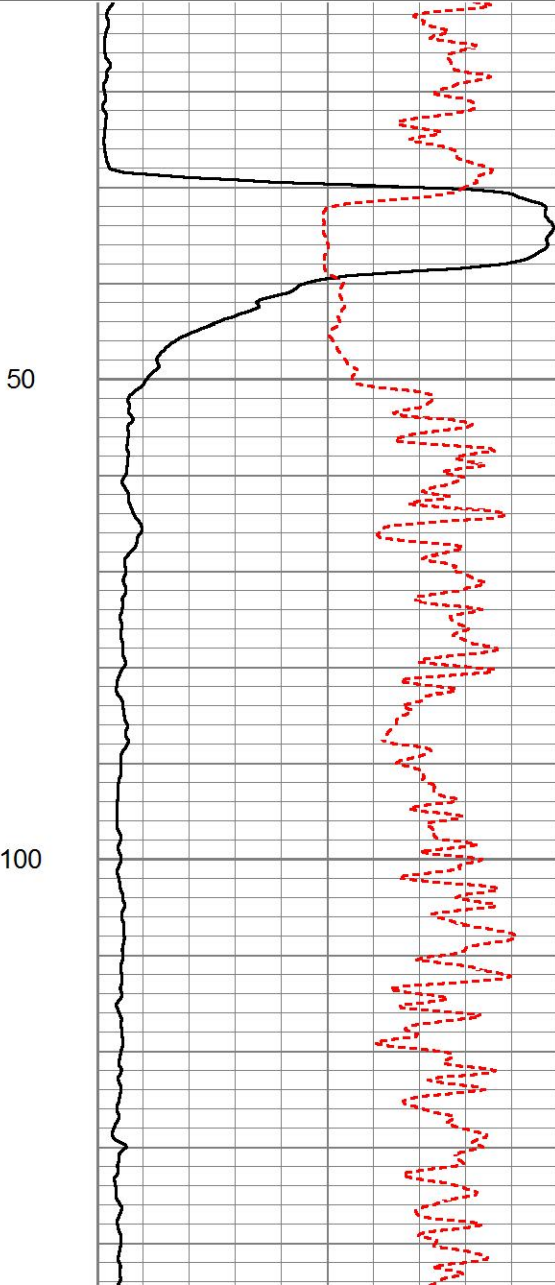
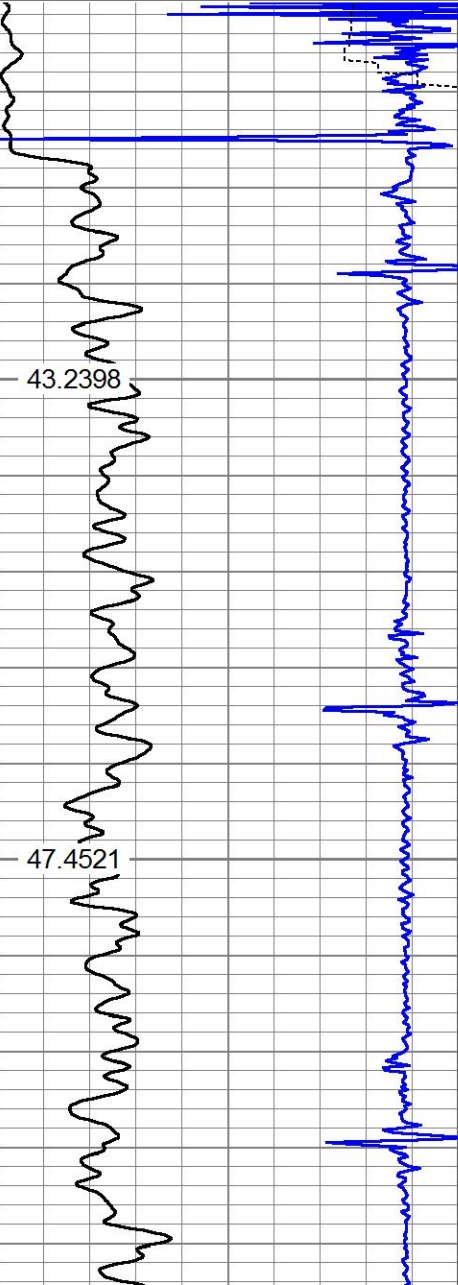
5" = 100'

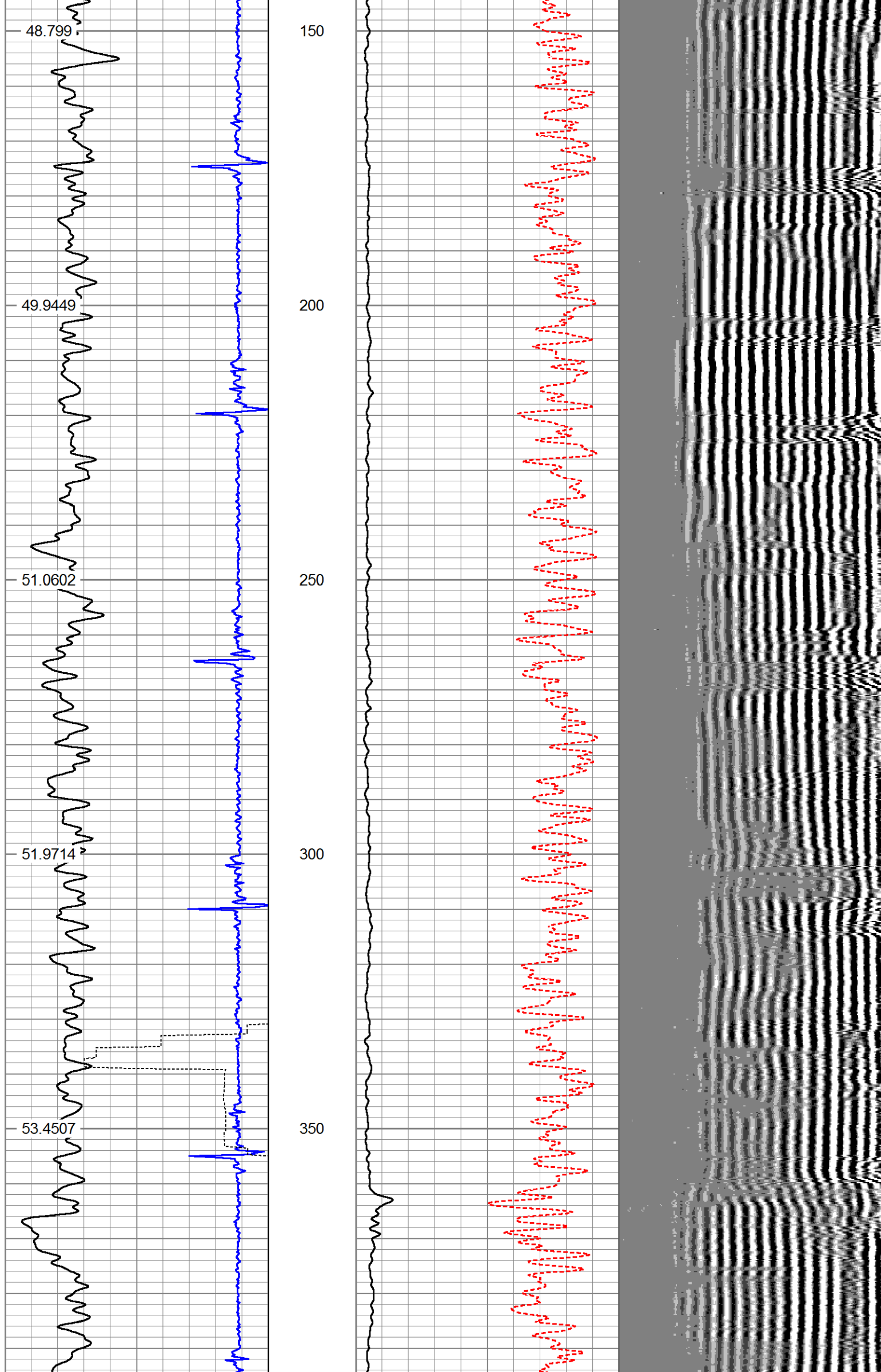
Database File citadel_cbl.db
Dataset Pathname MAIN_PASS1
Presentation Format cbl_dr
Dataset Creation Fri Nov 09 10:46:07 2018
Charted by Depth in Feet scaled 1:240

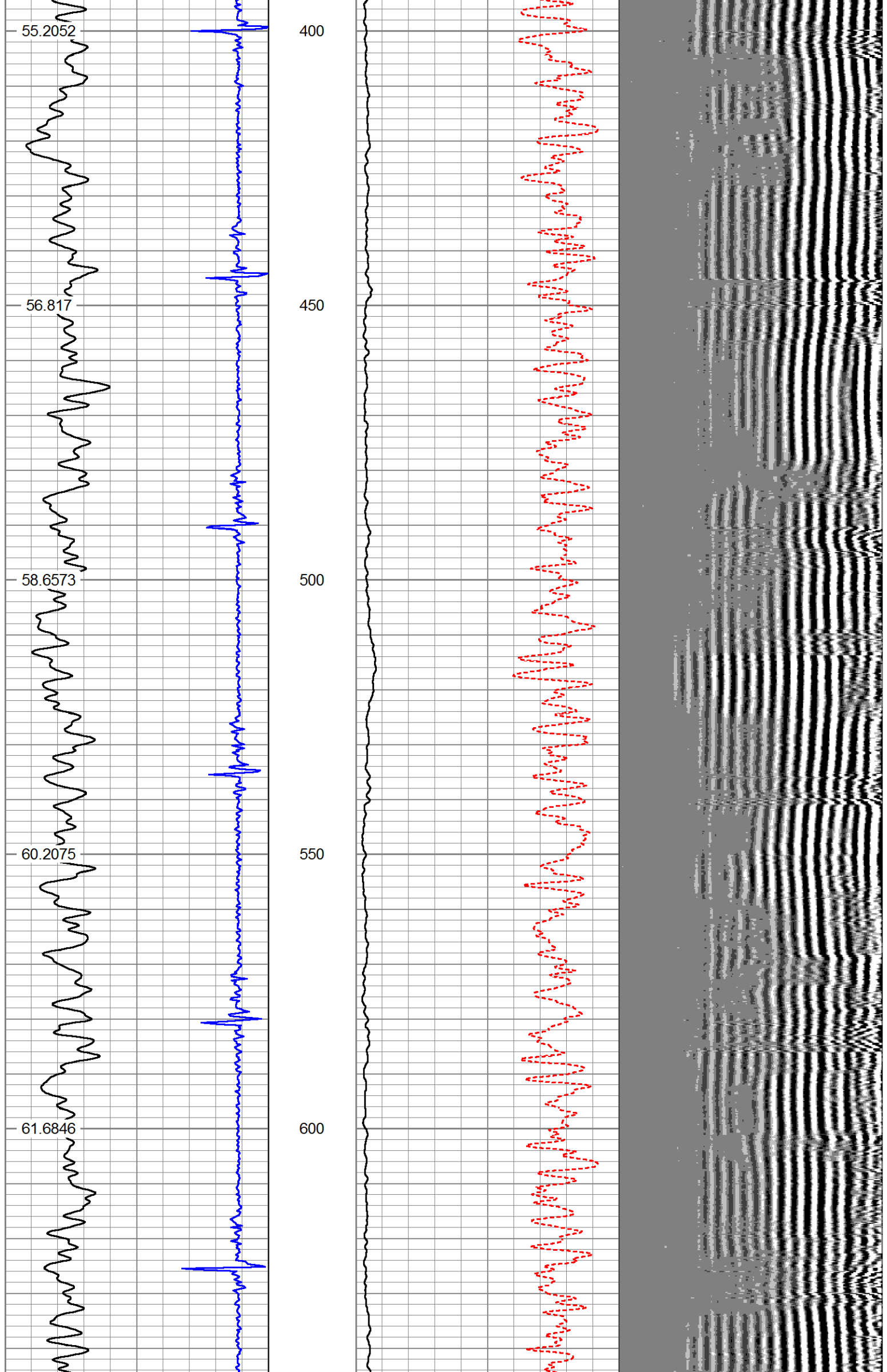
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0	Gamma Ray (GAPI)	200
0	Line Speed (ft/min)	100

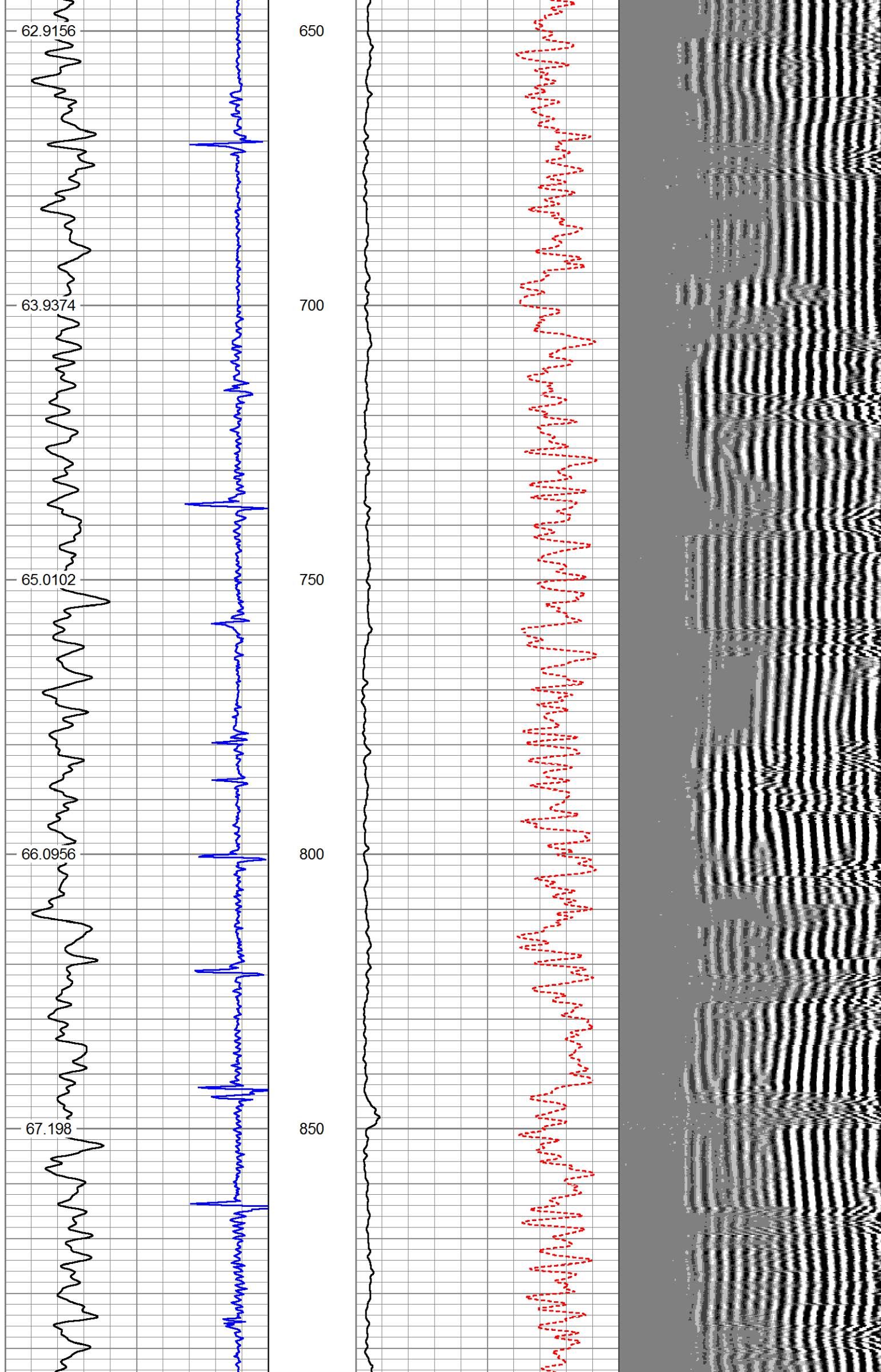
0	AMP3FT (mV)	100	200	WVF5FT (usec)	1200
300	Travel Time (usec)	400			

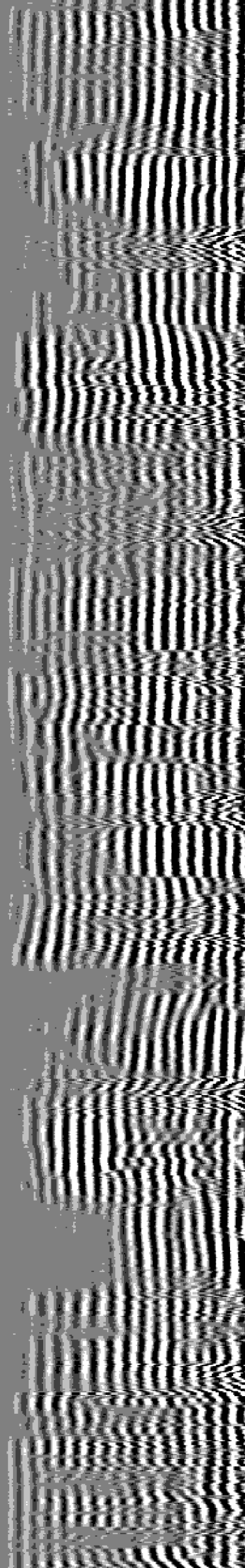
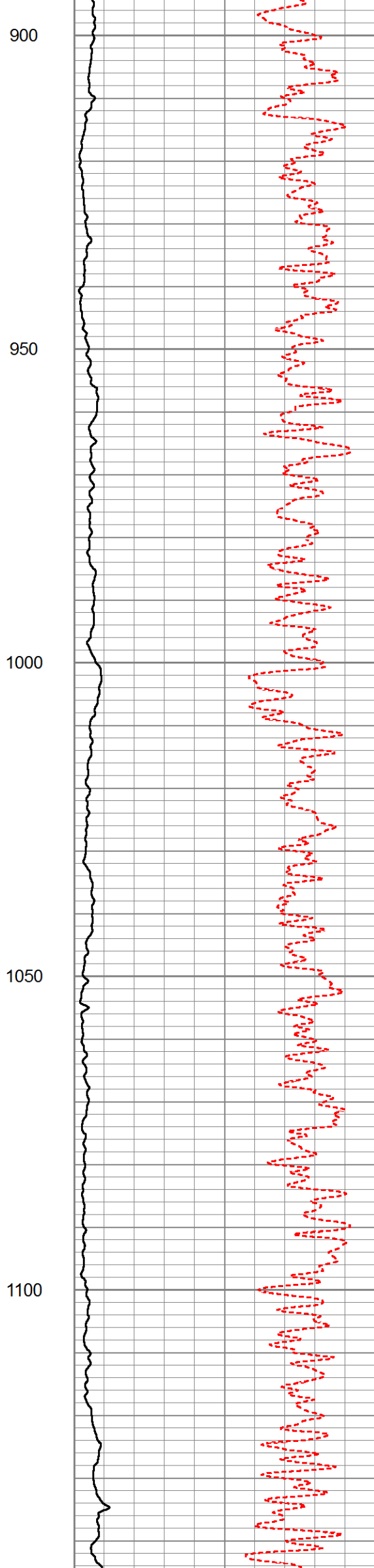
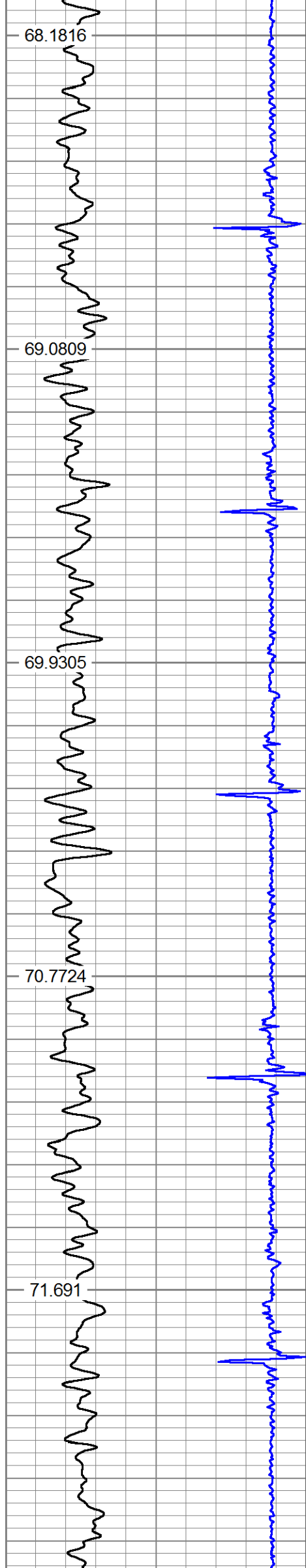
TEMP
(degF)

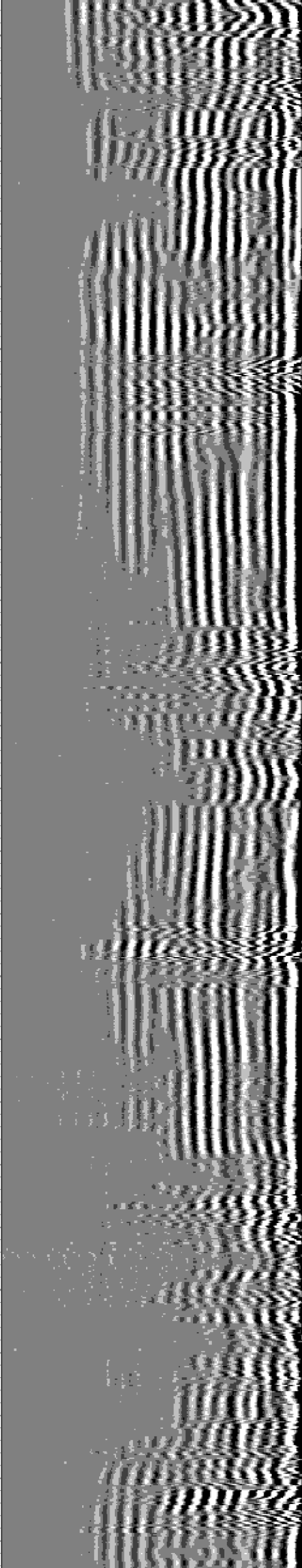
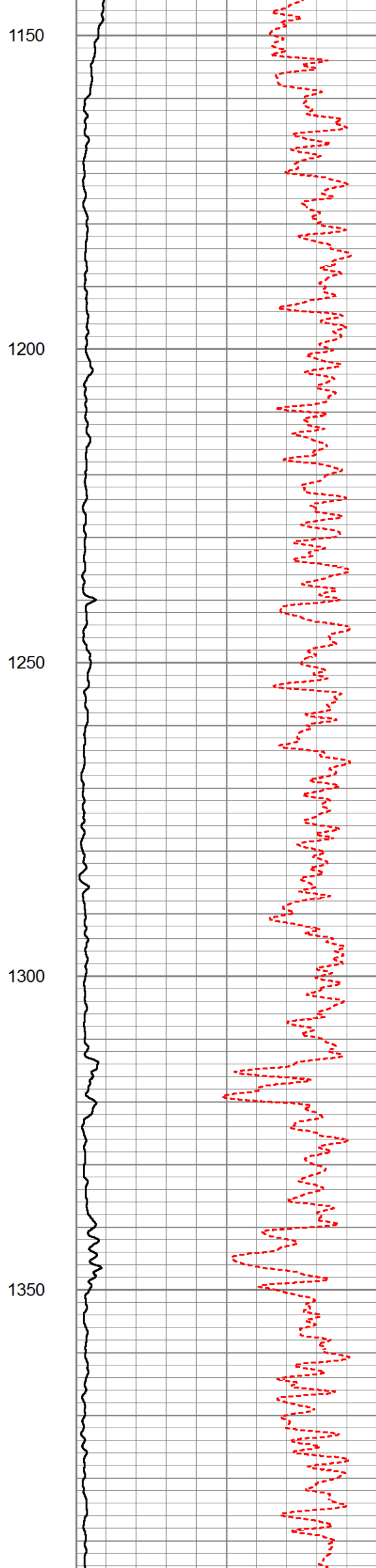
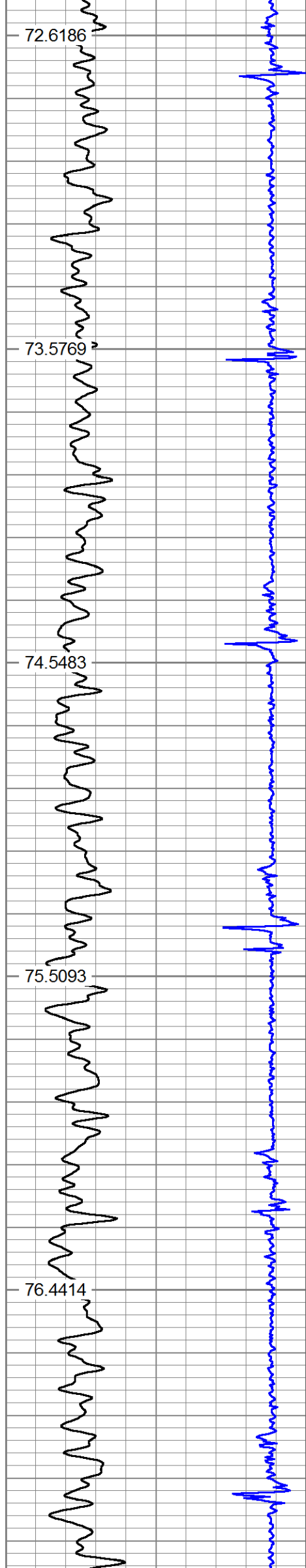


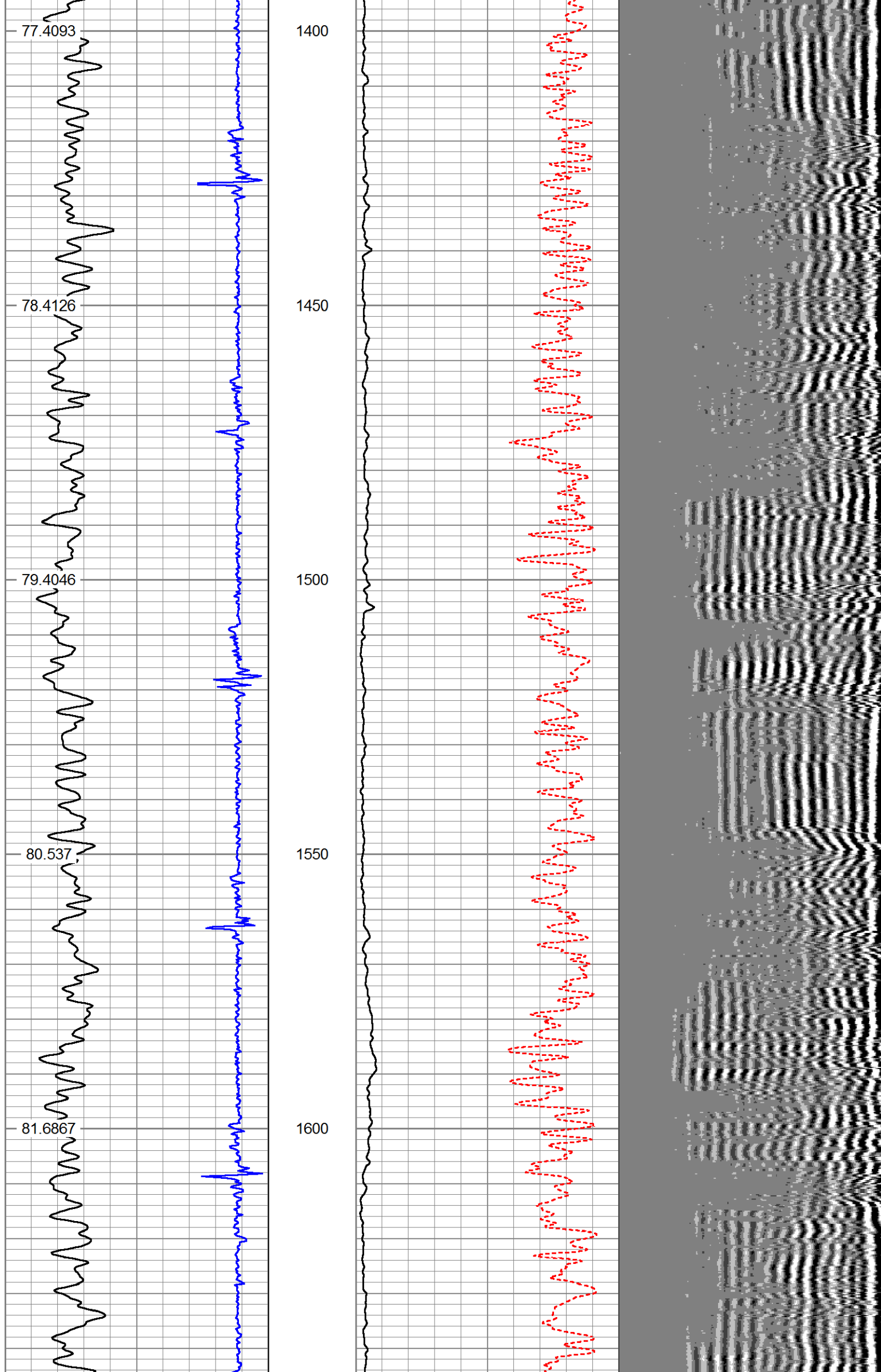


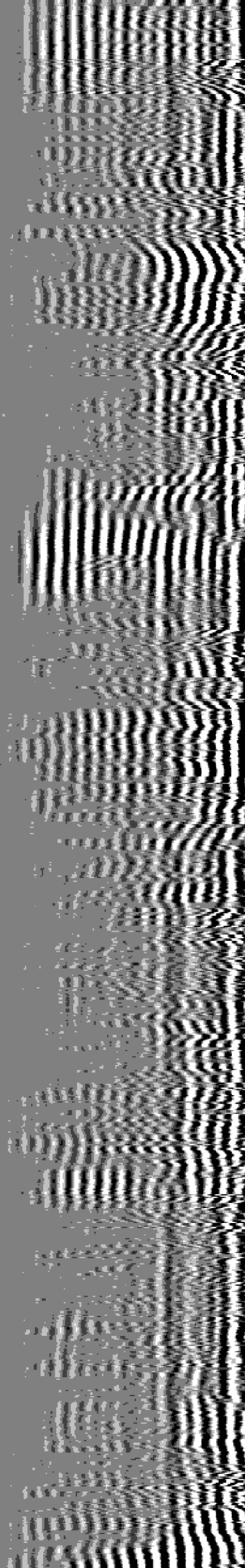
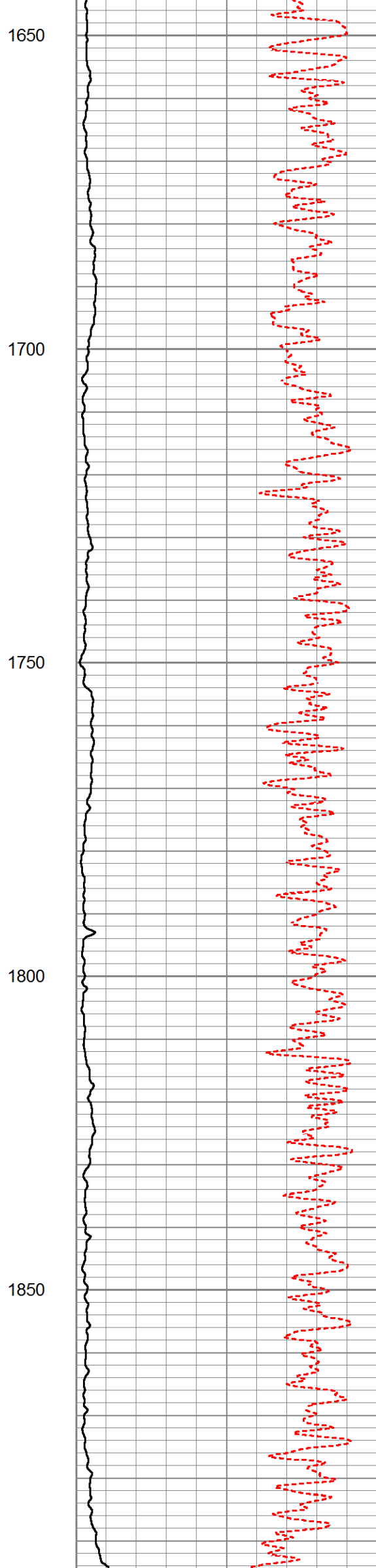
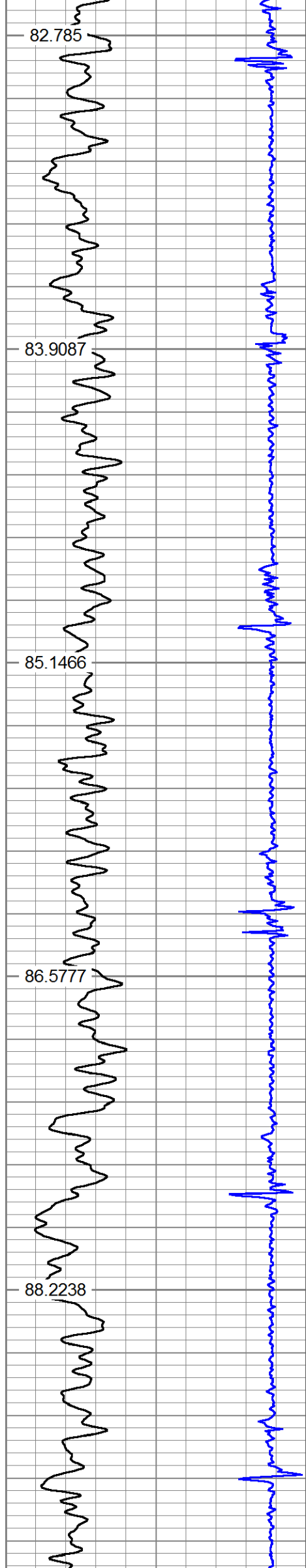


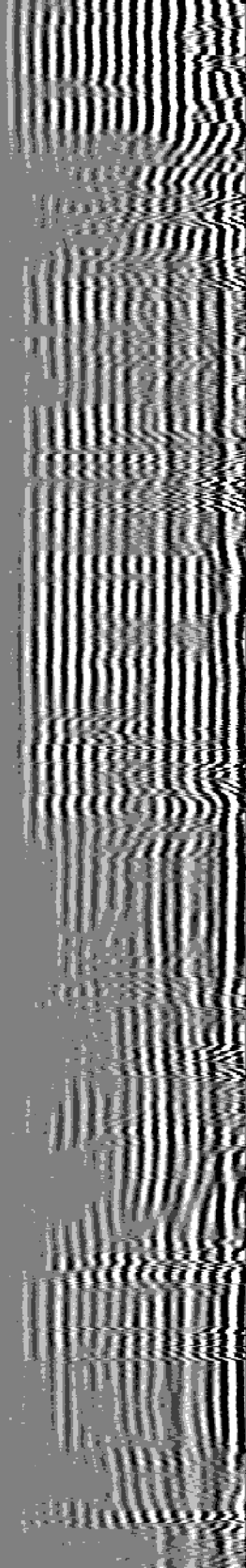
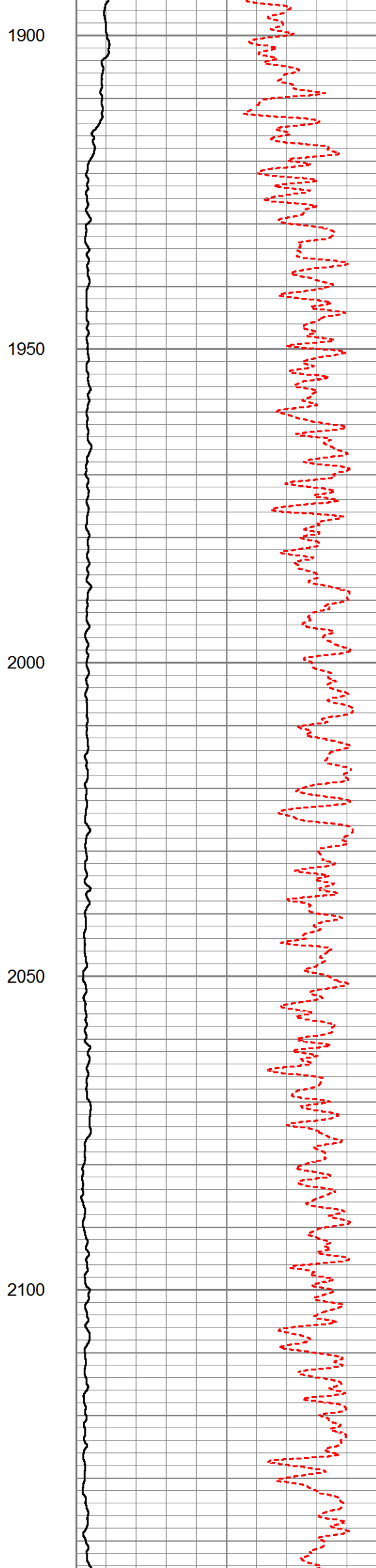
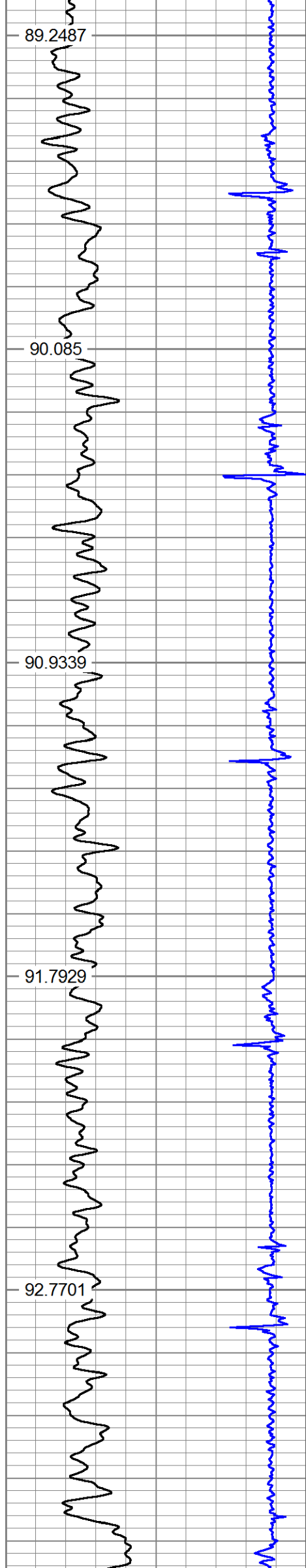


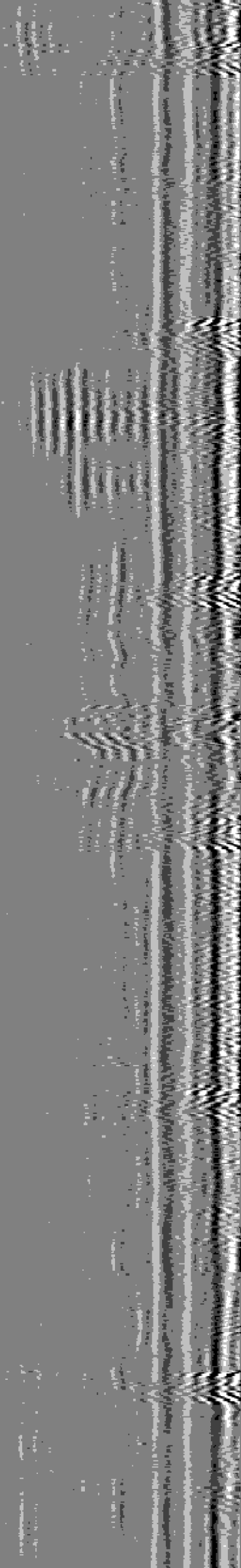
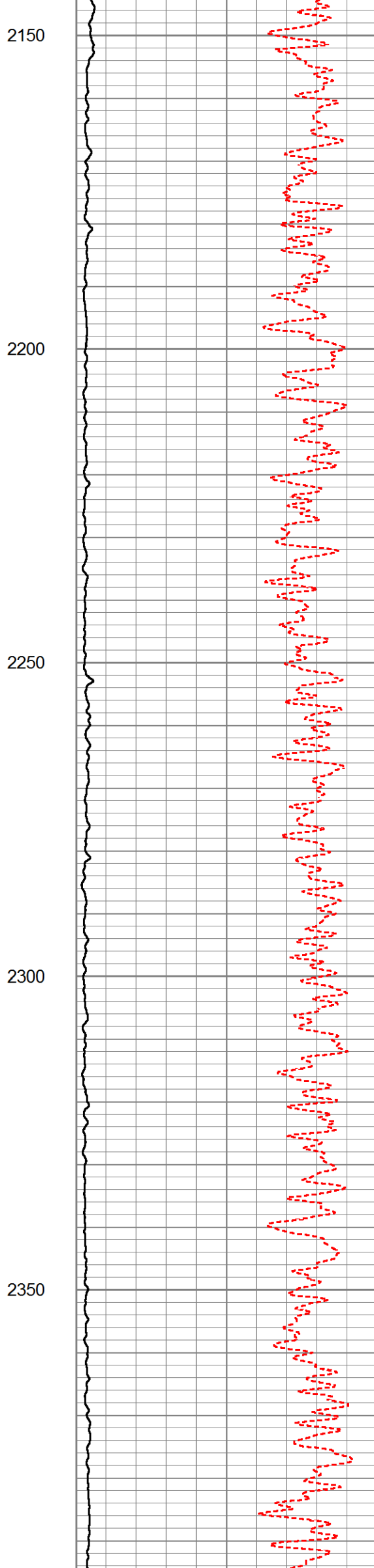
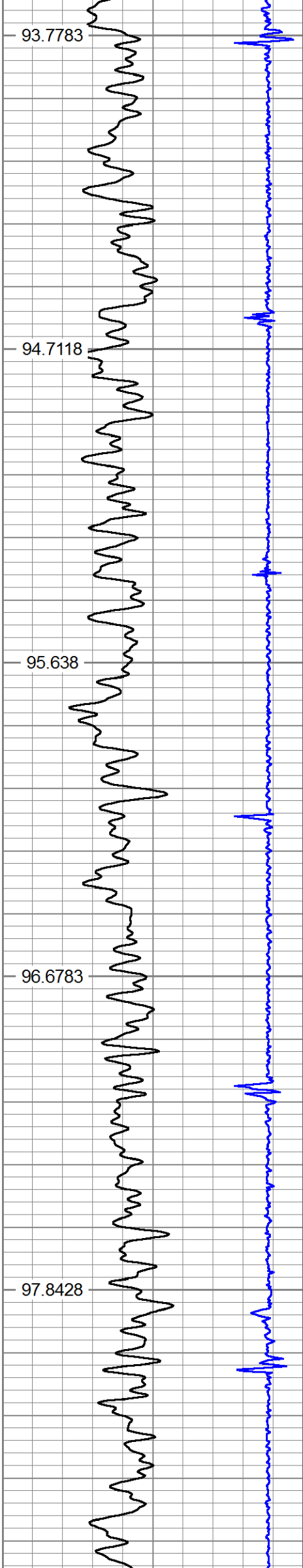


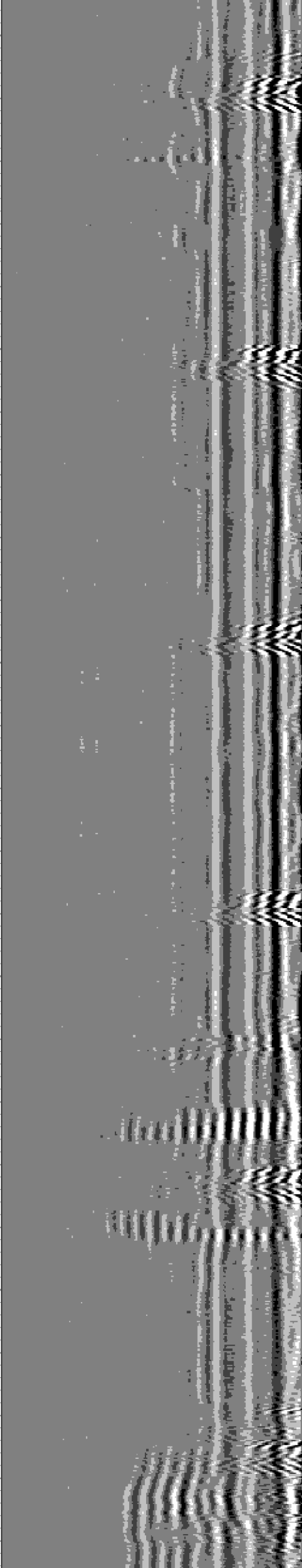
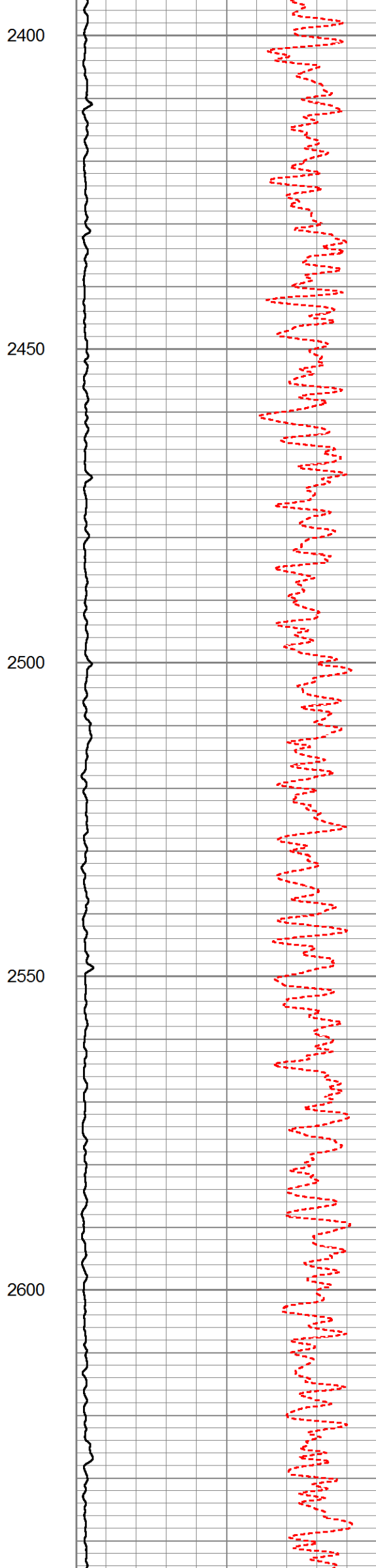
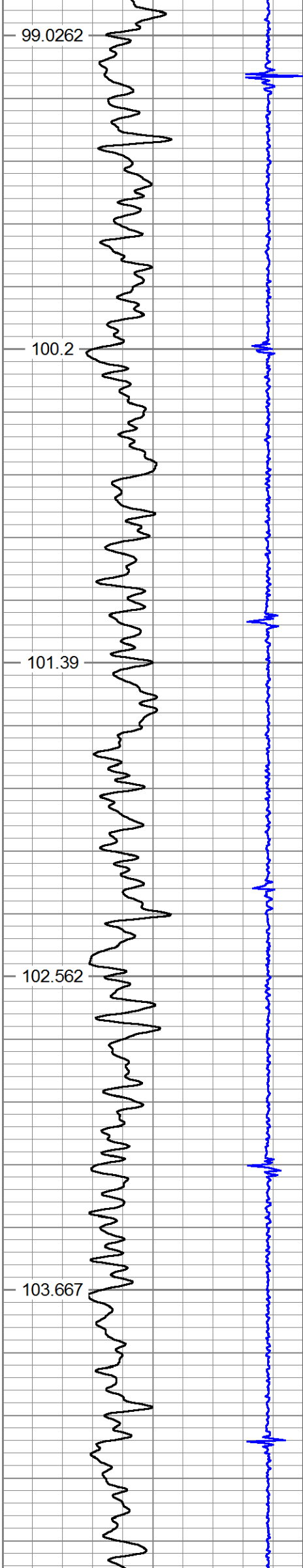


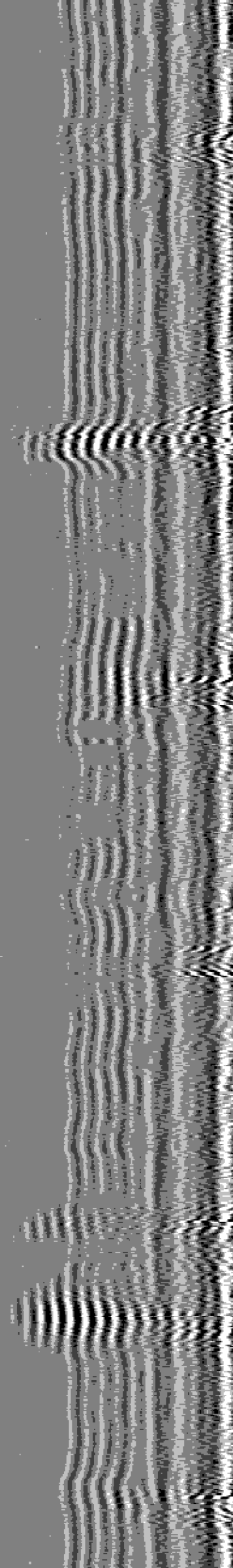
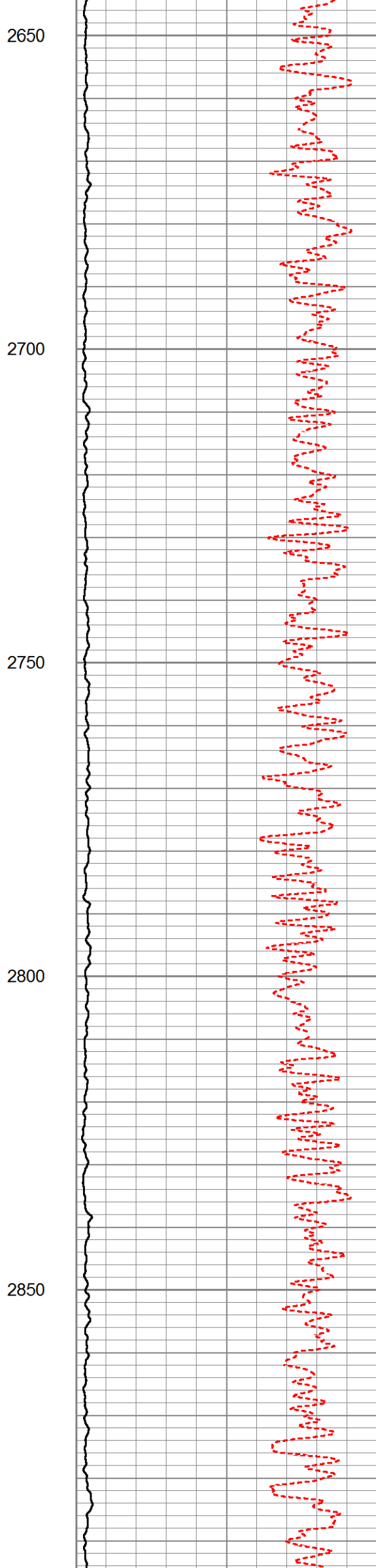
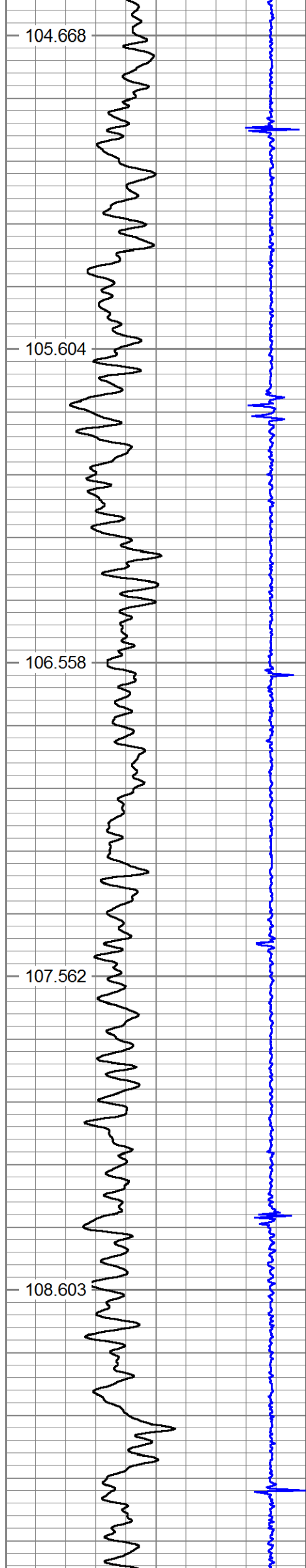


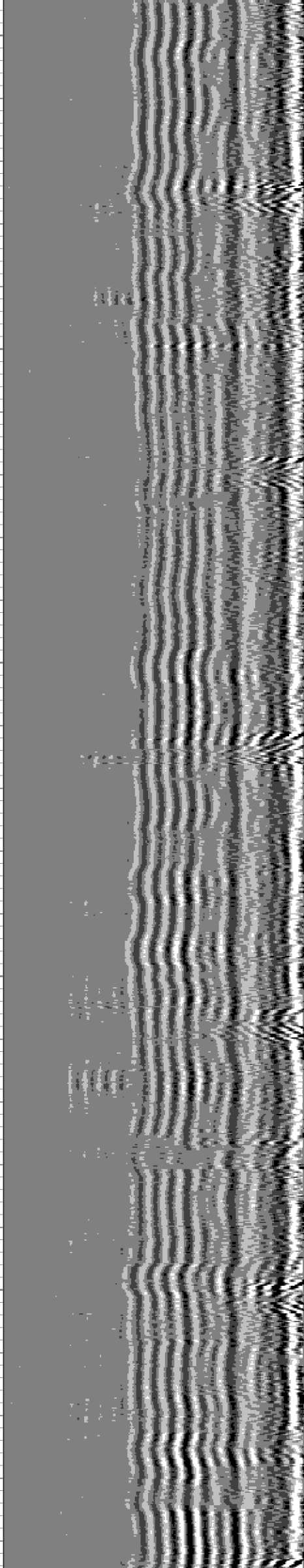
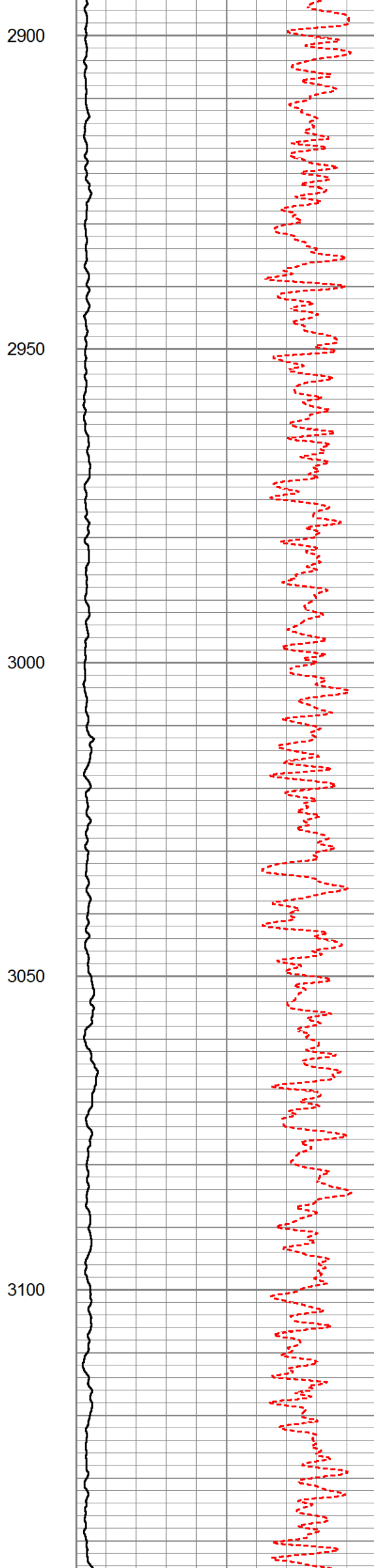
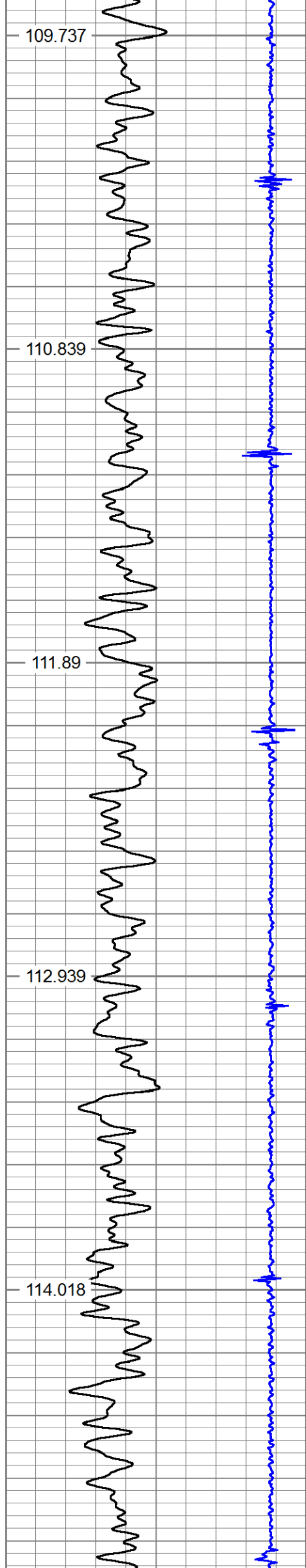


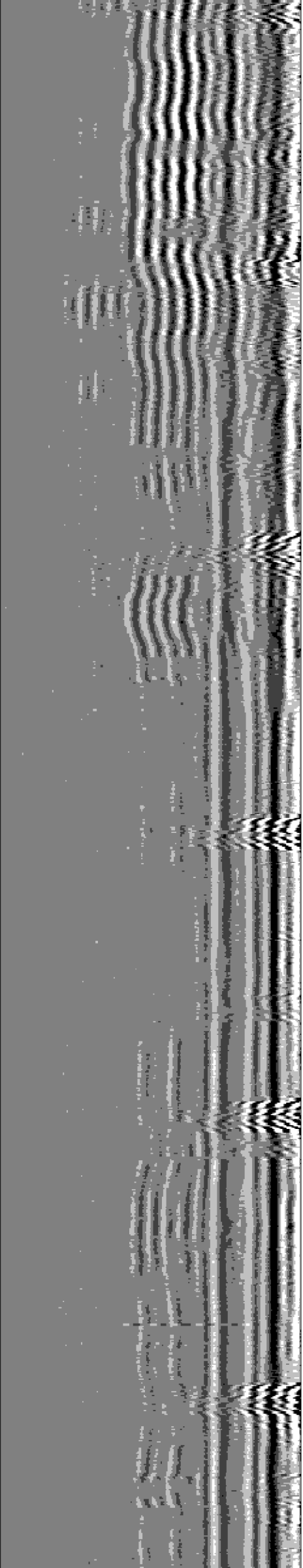
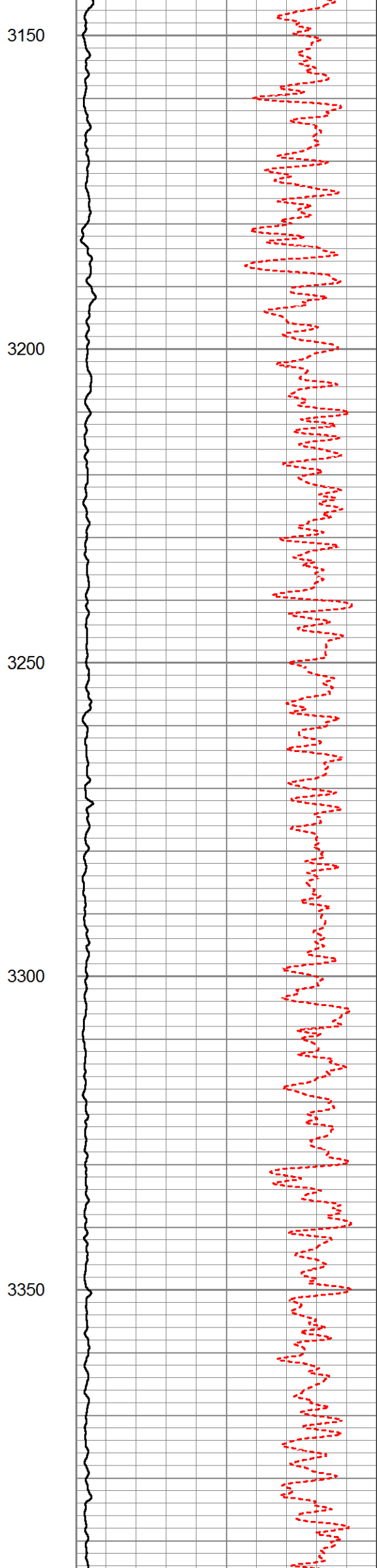
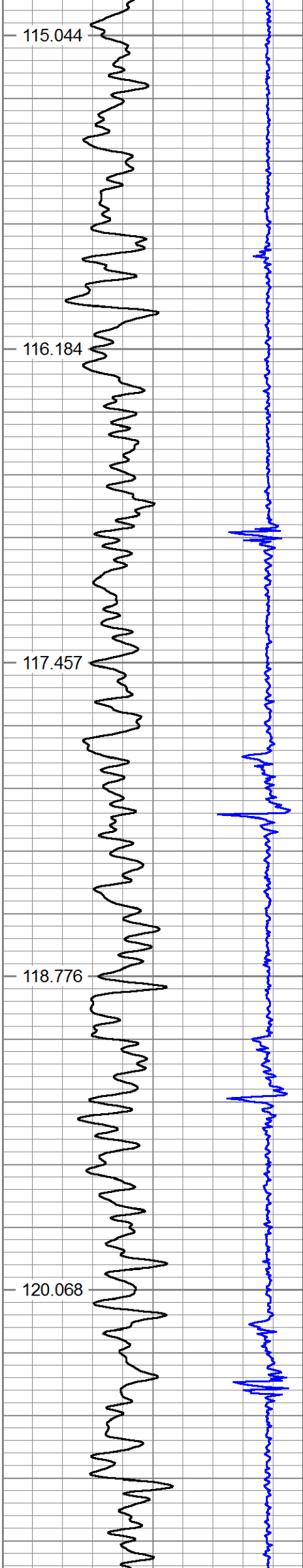


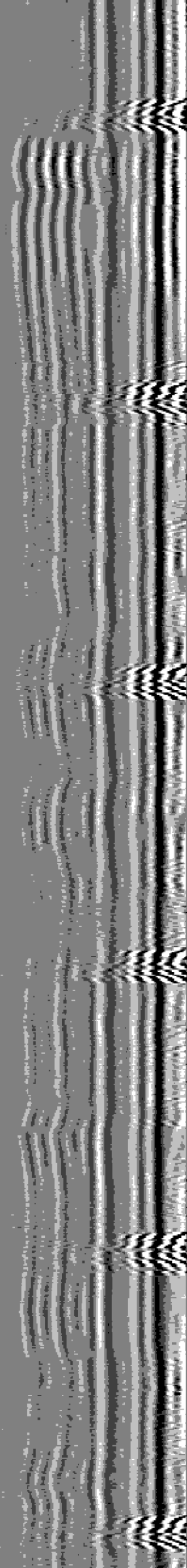
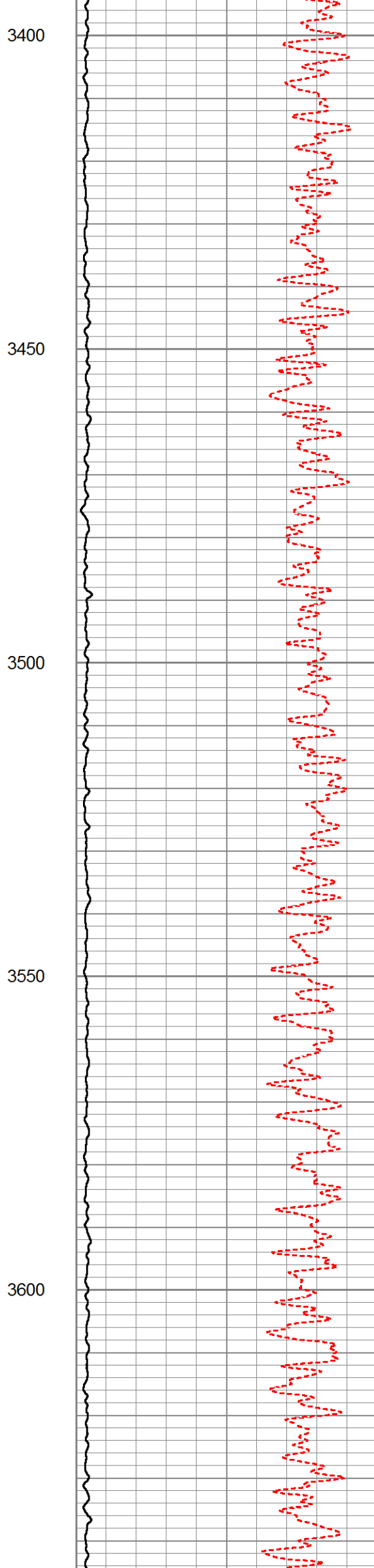
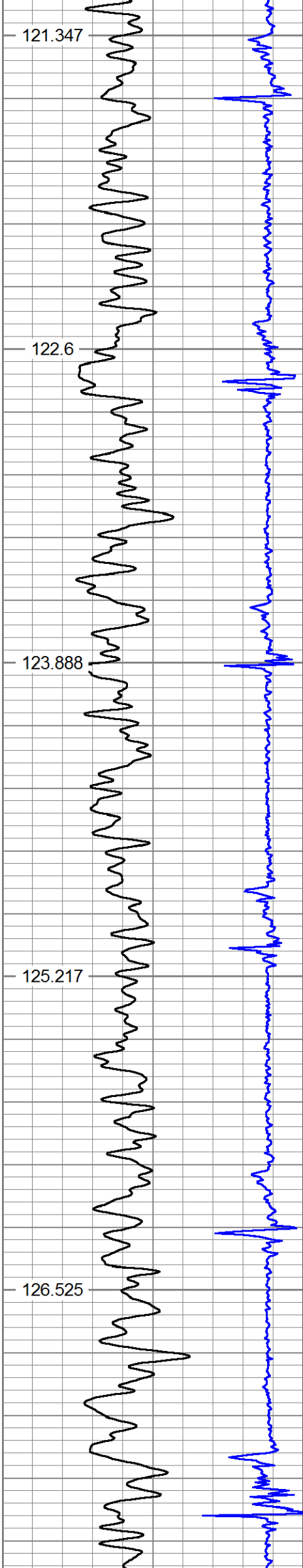


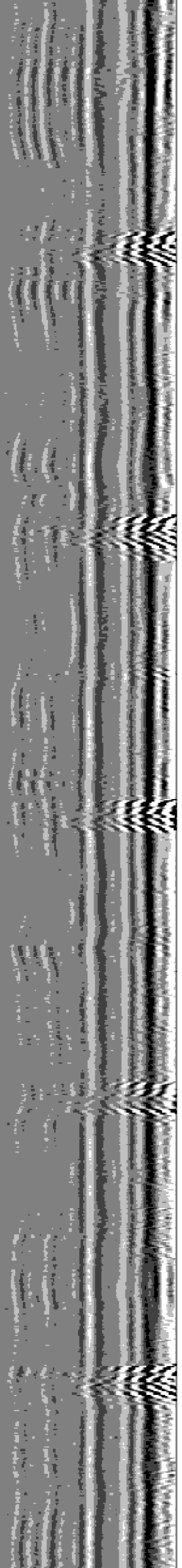
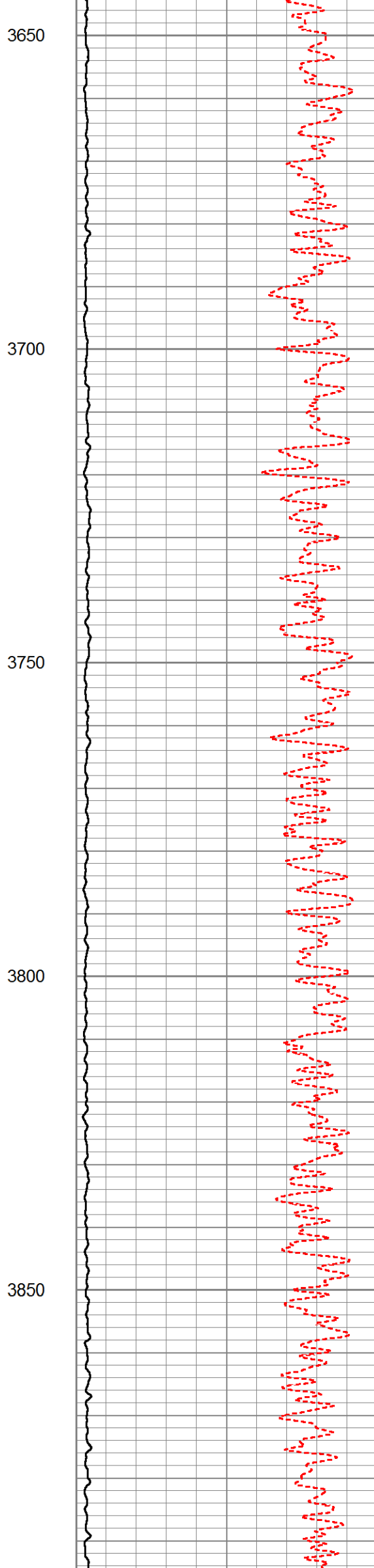
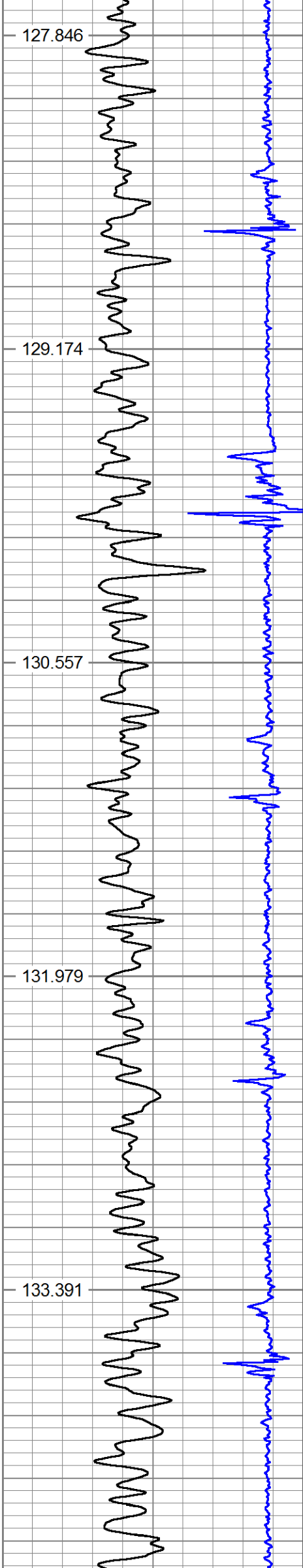


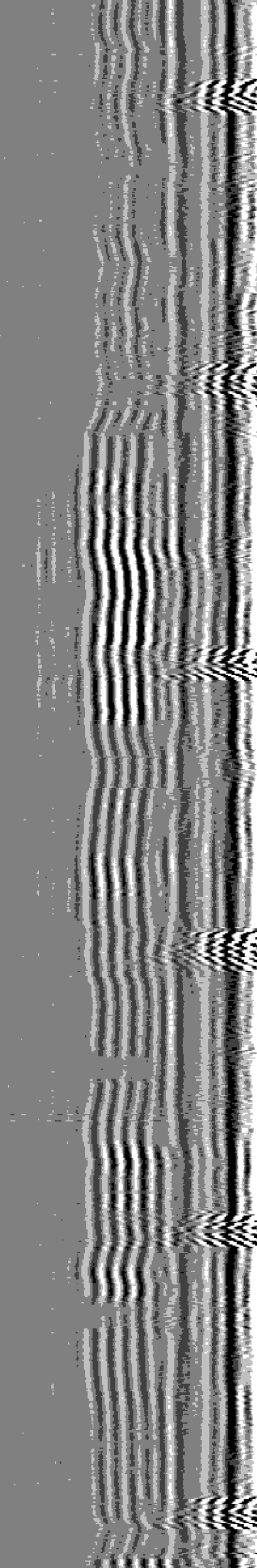
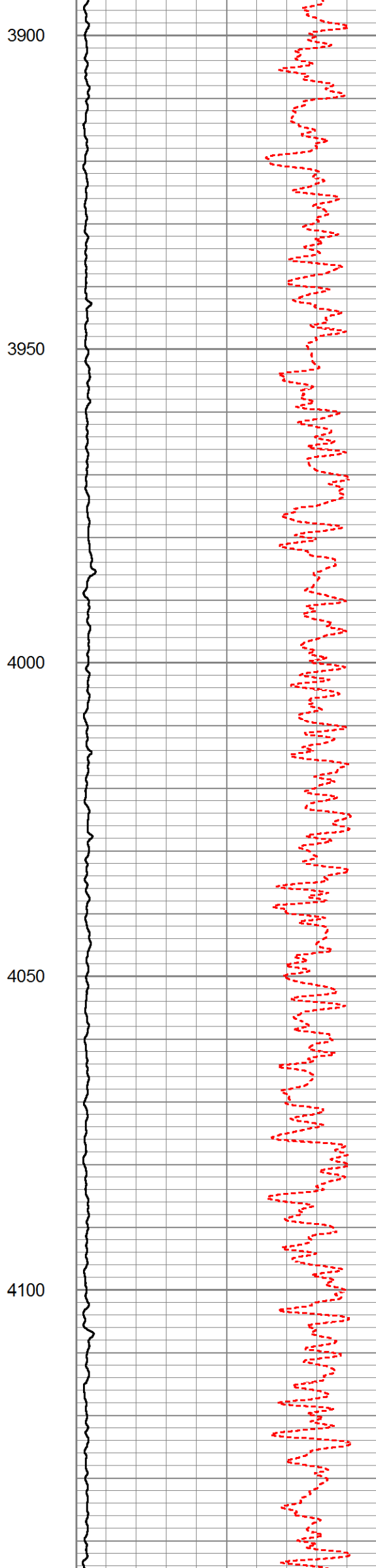
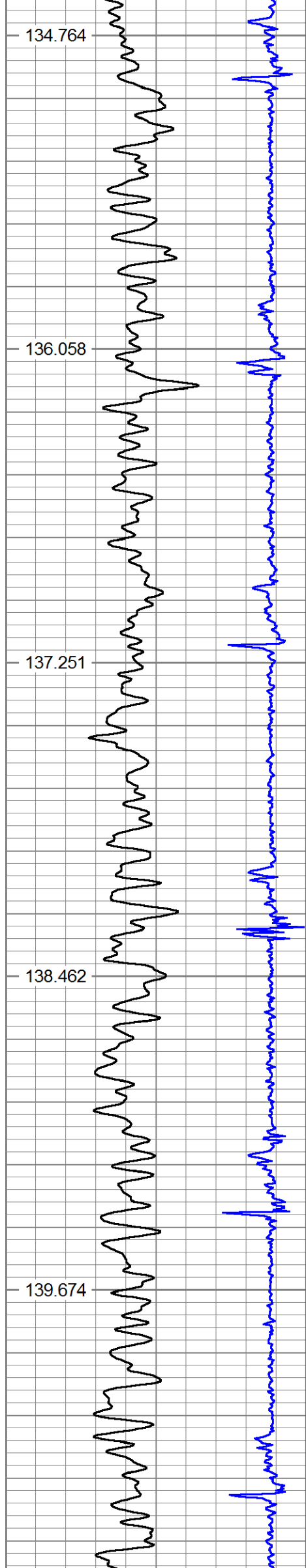


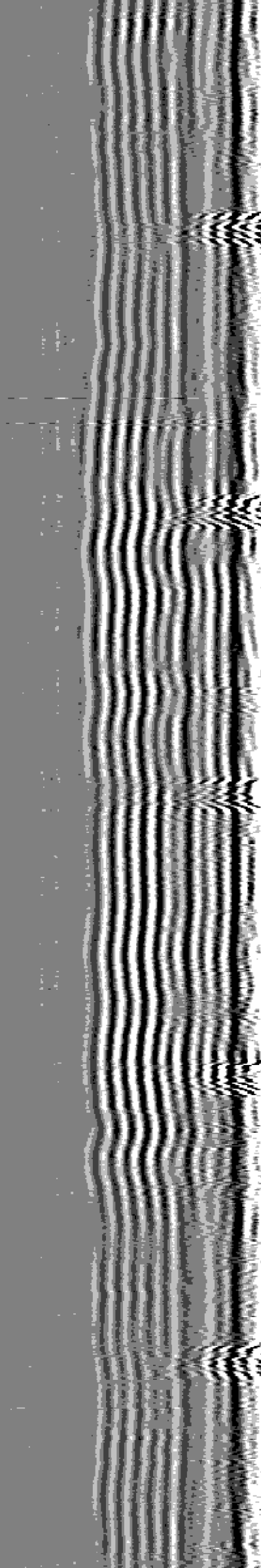
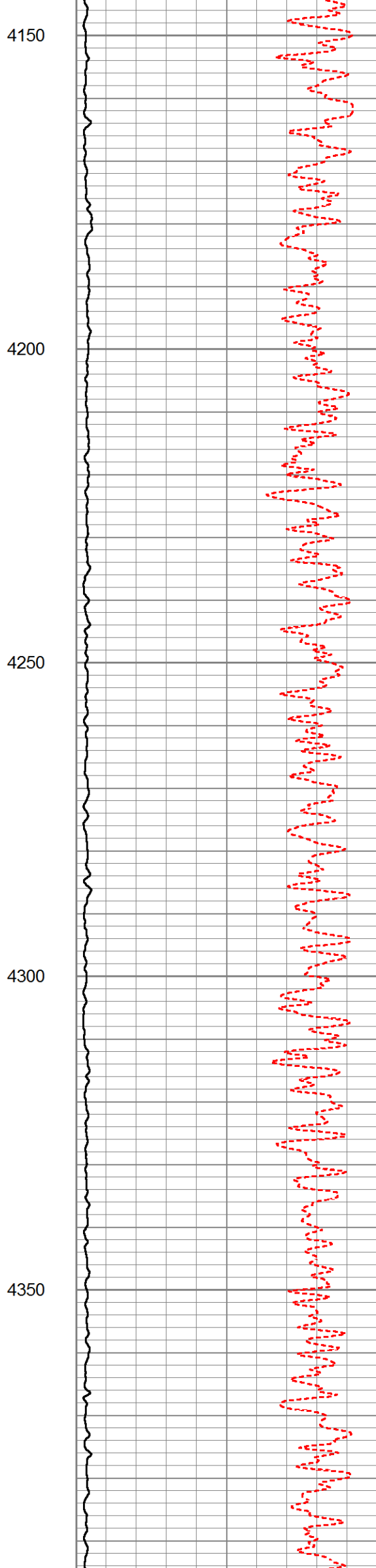
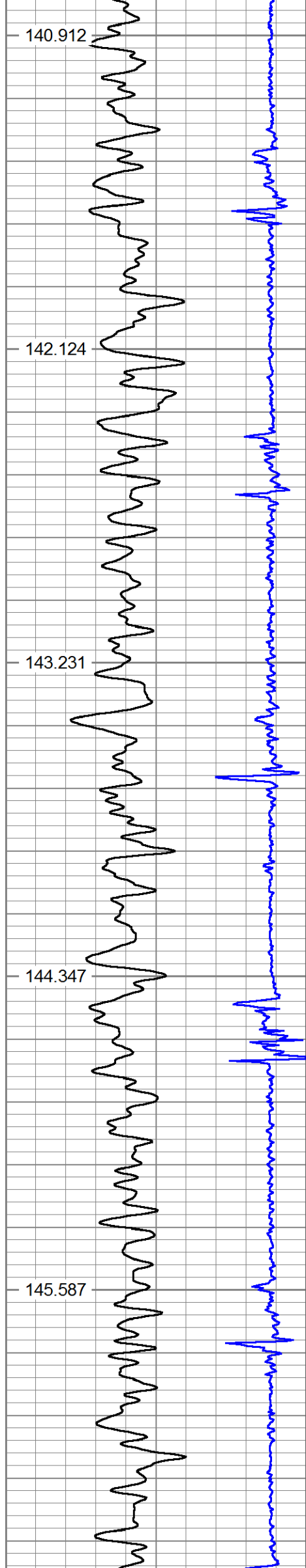


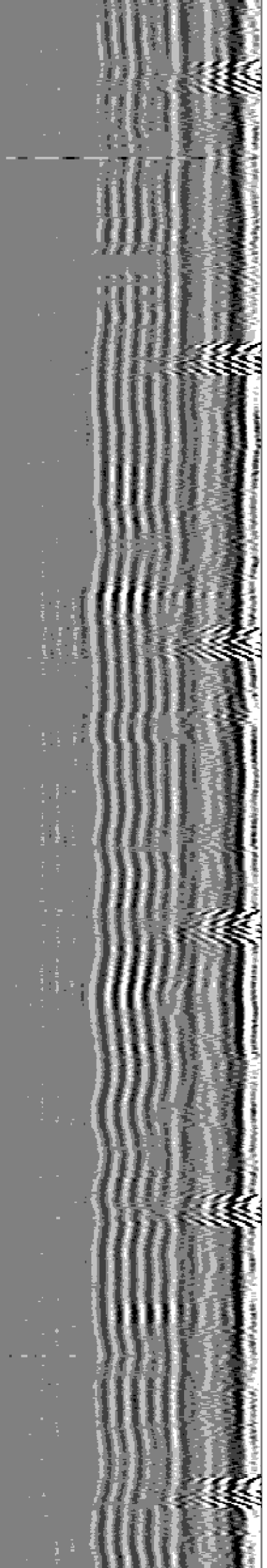
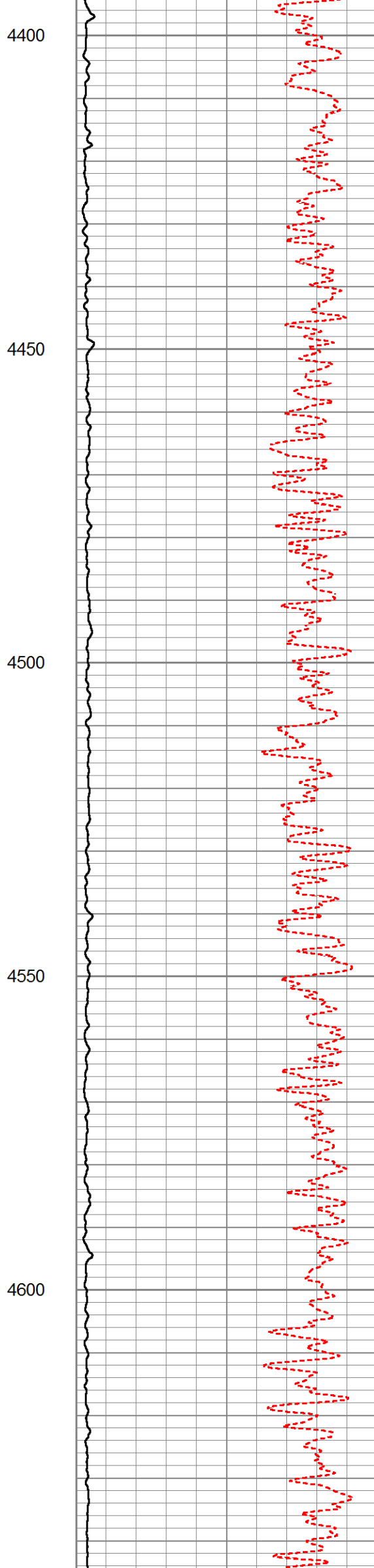
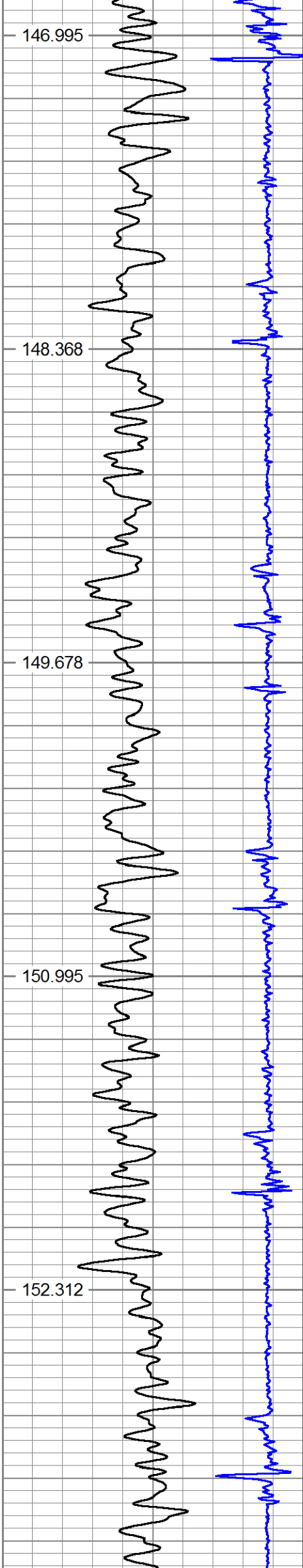


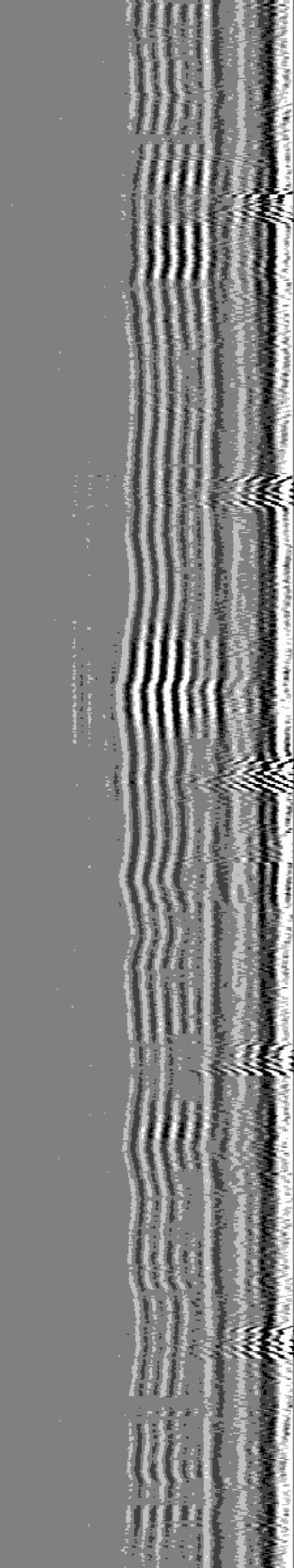
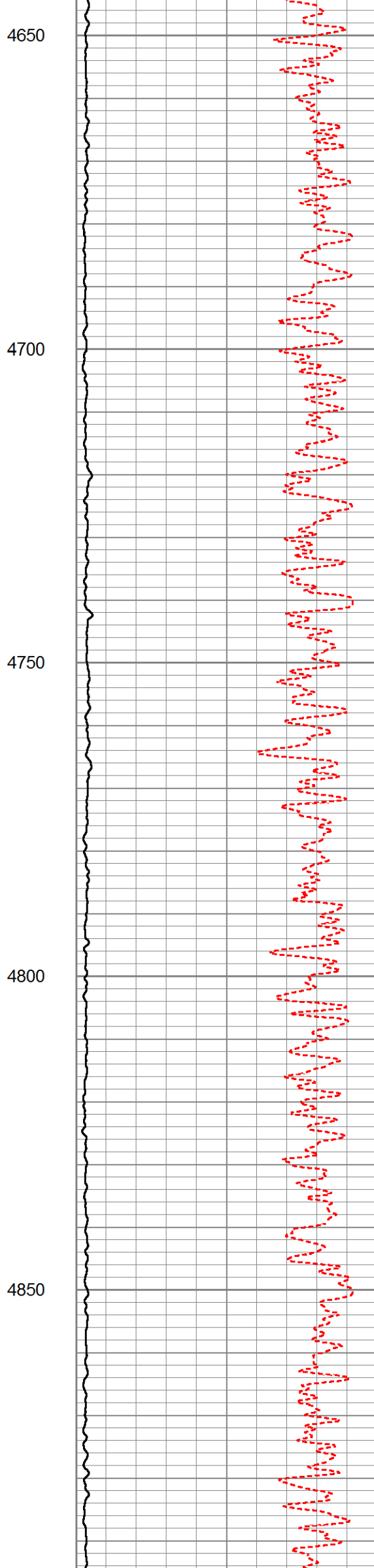
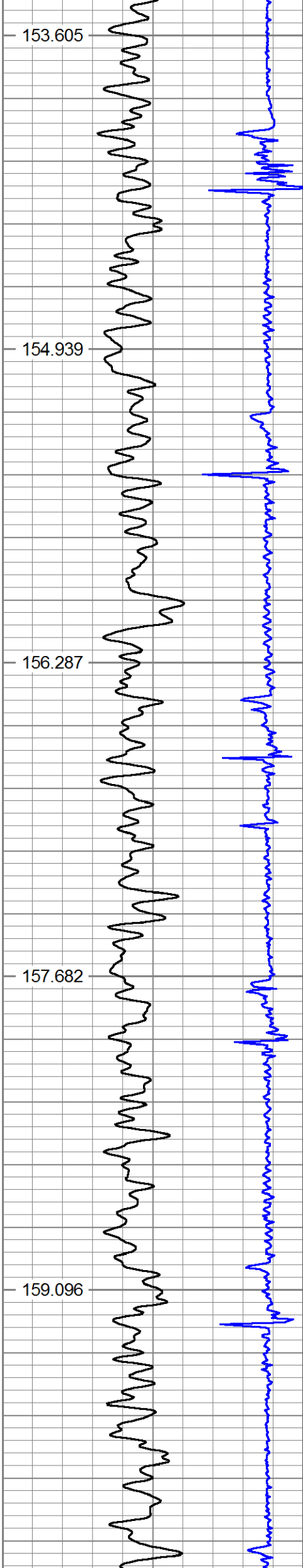


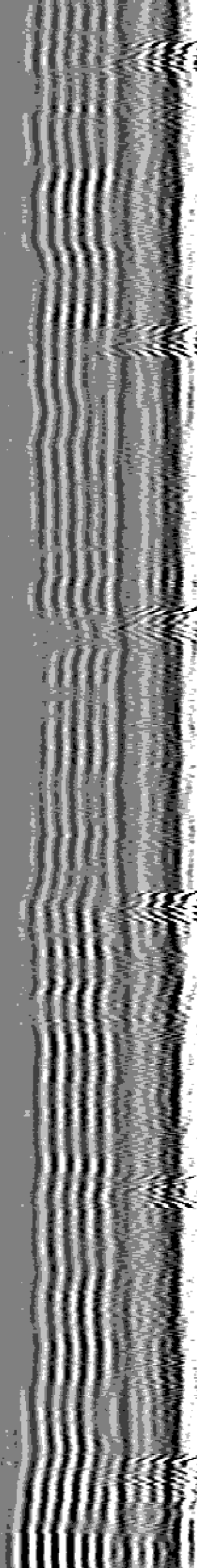
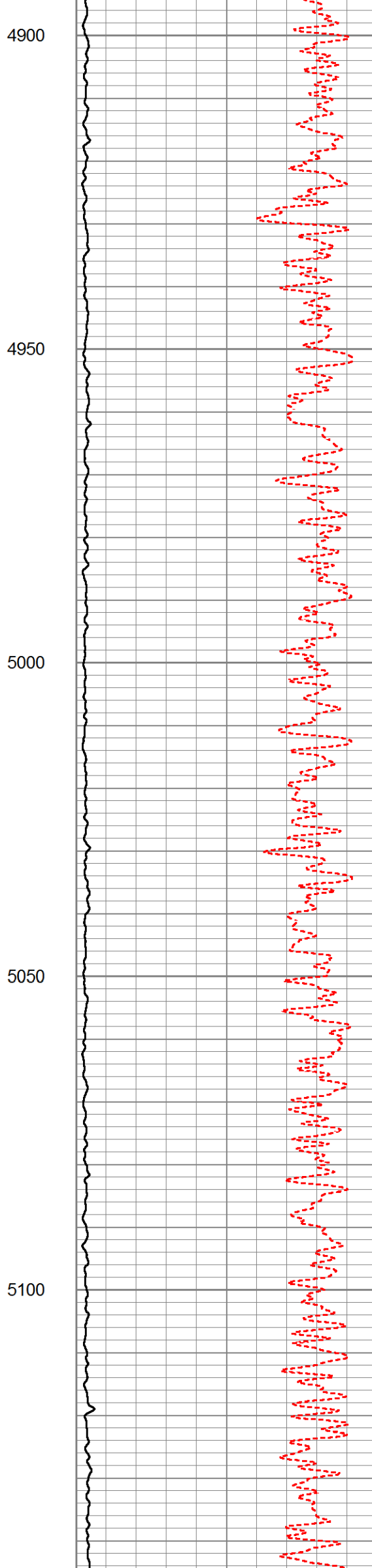
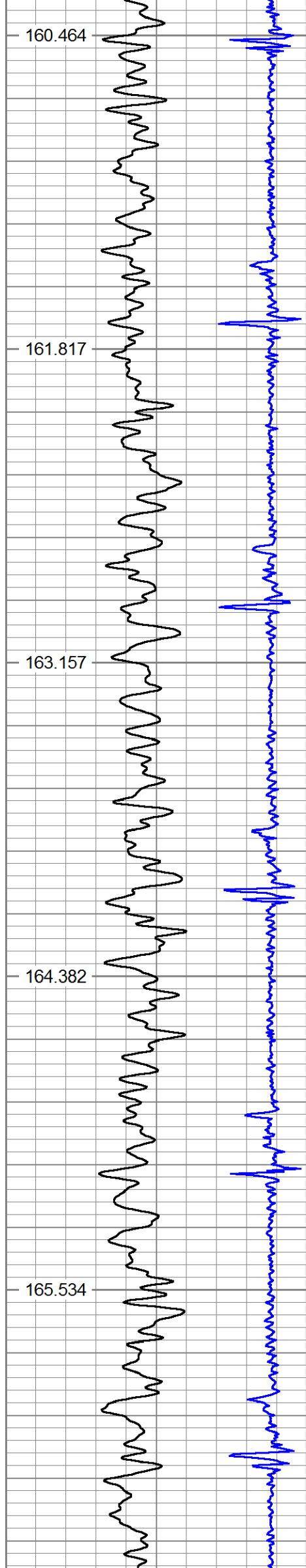


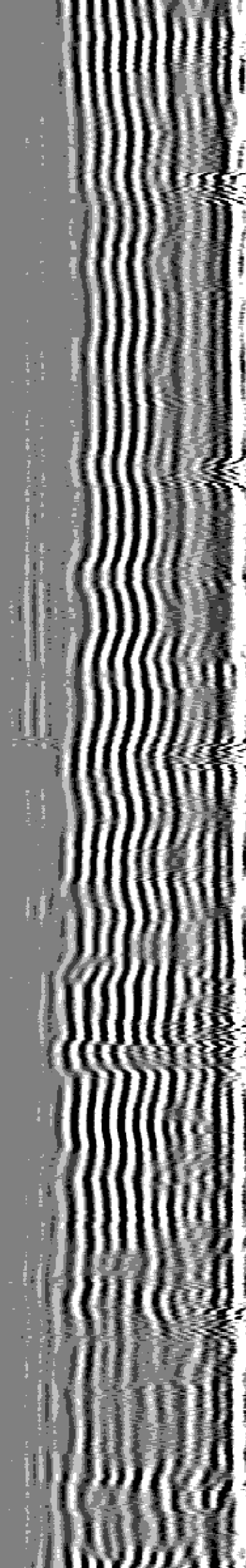
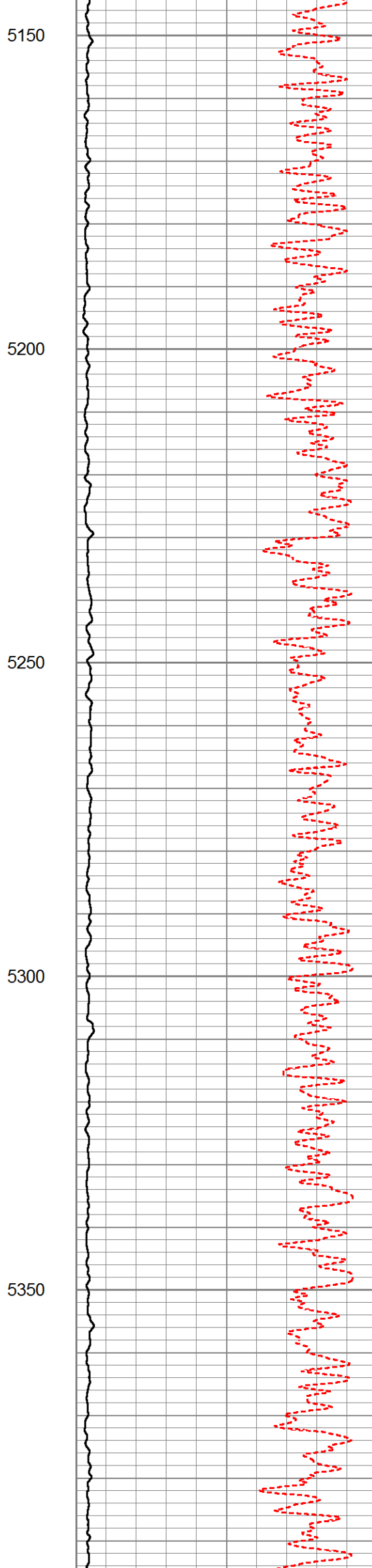
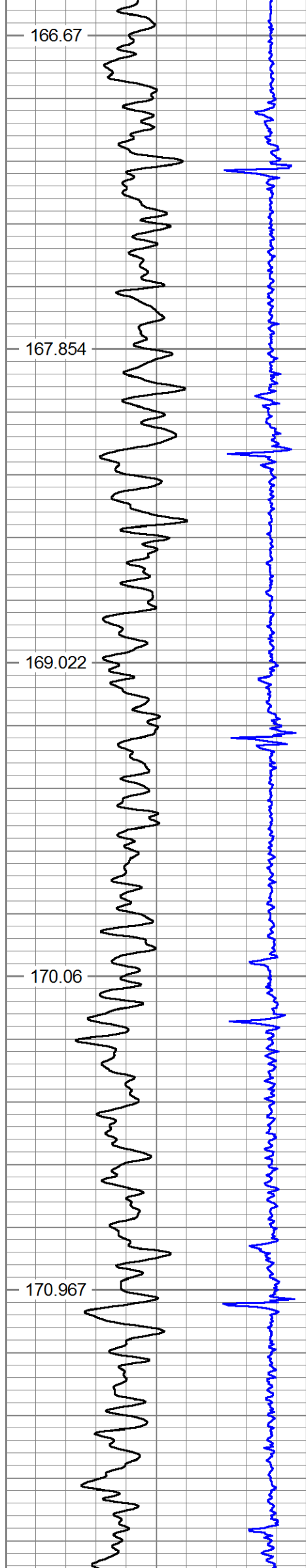


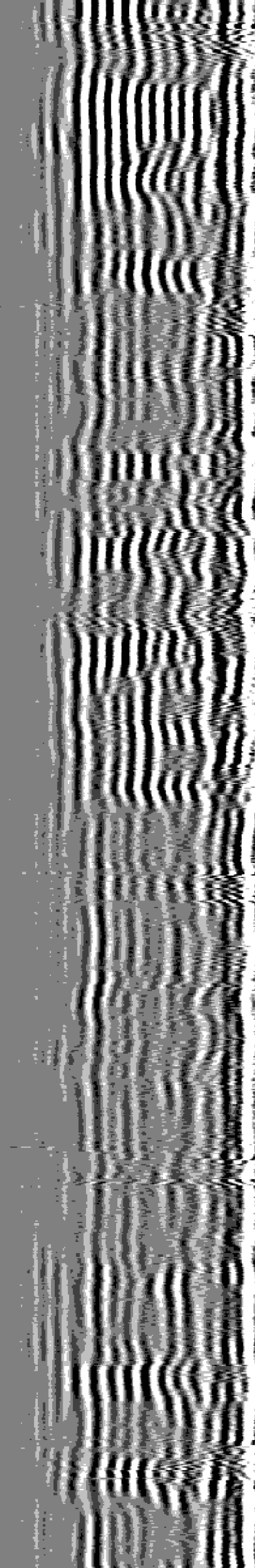
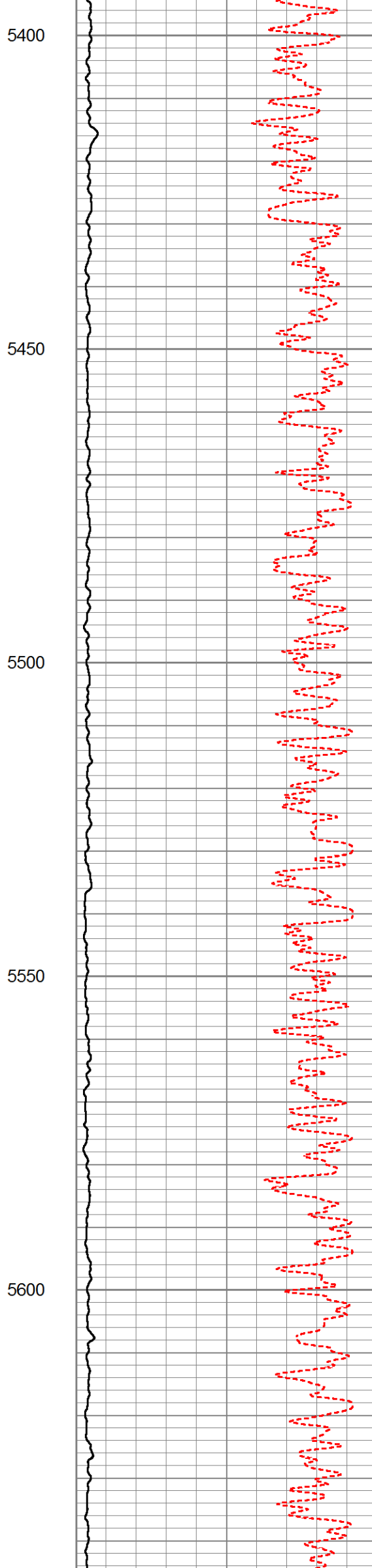
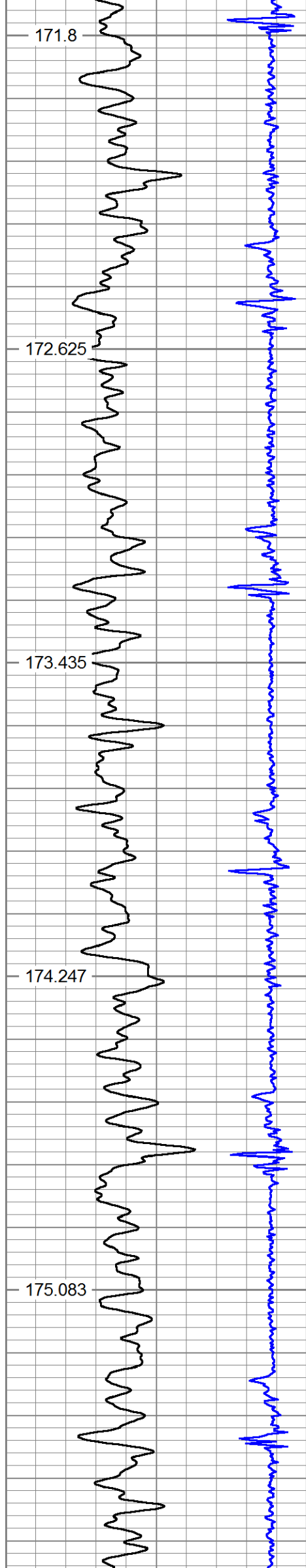


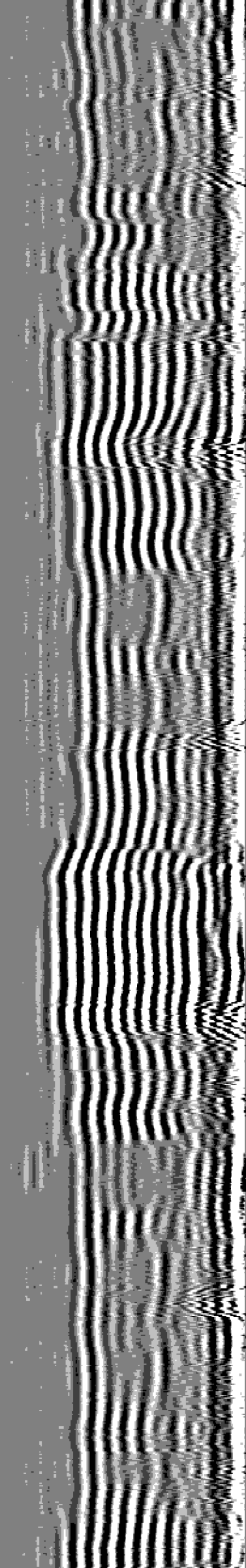
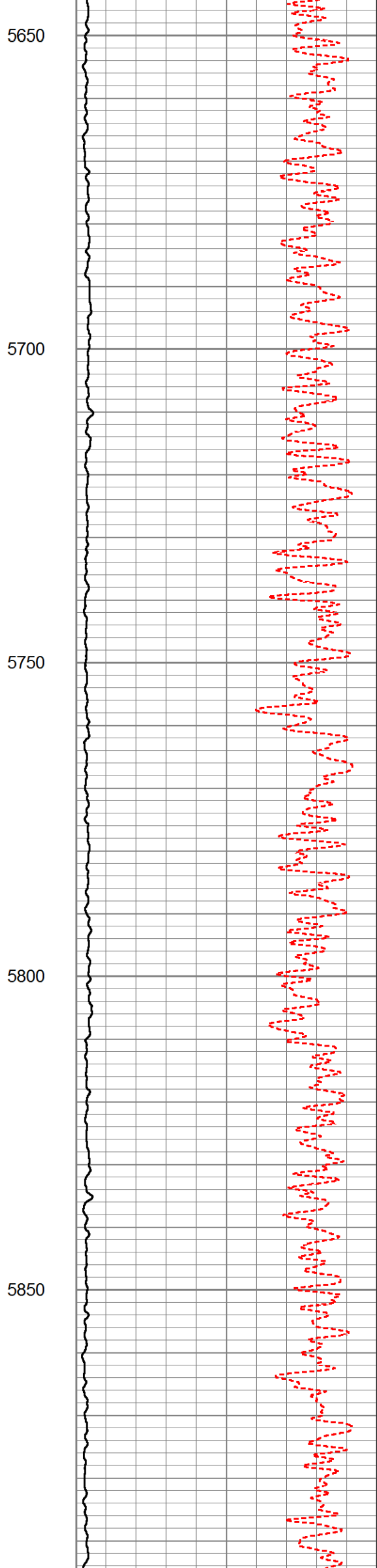
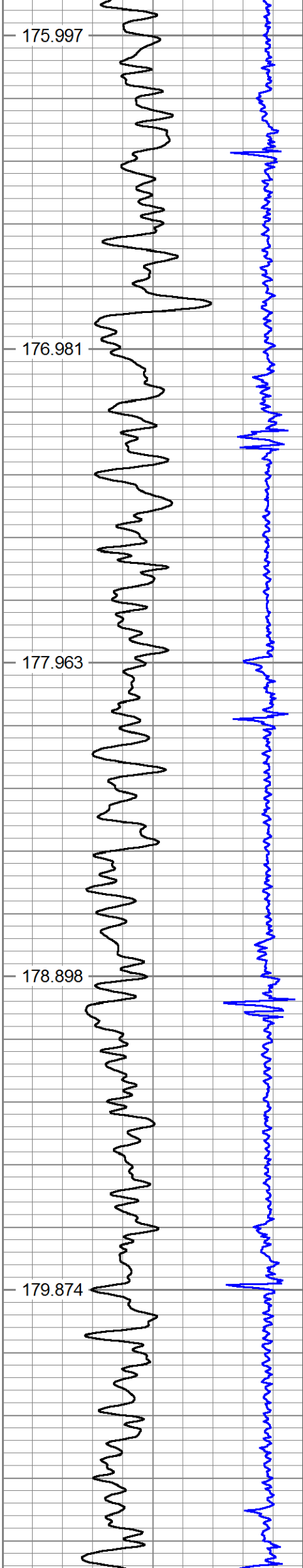


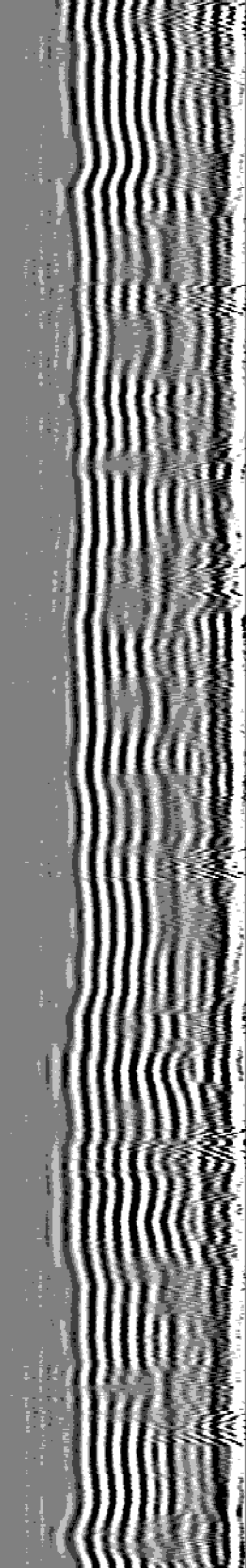
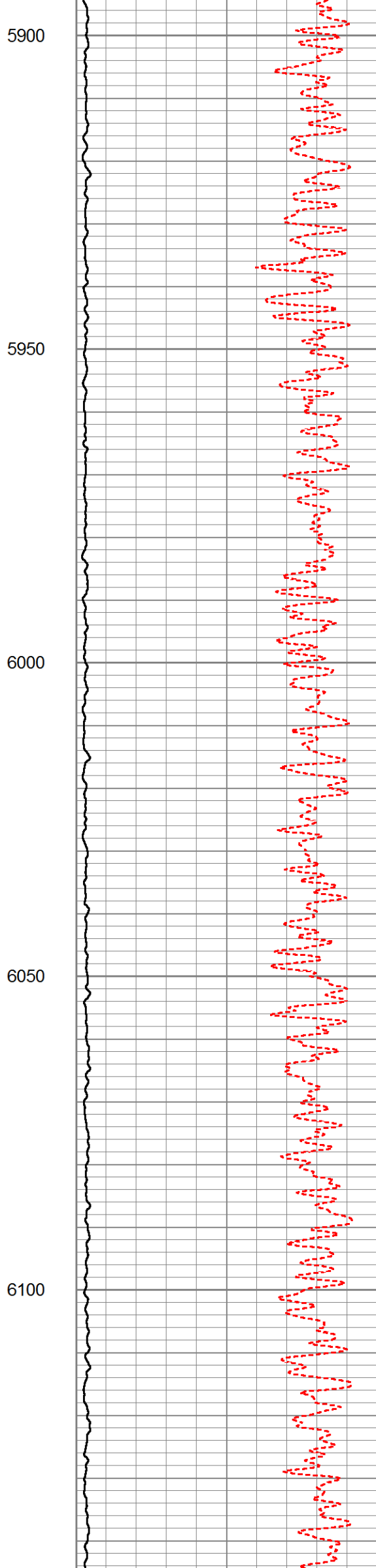
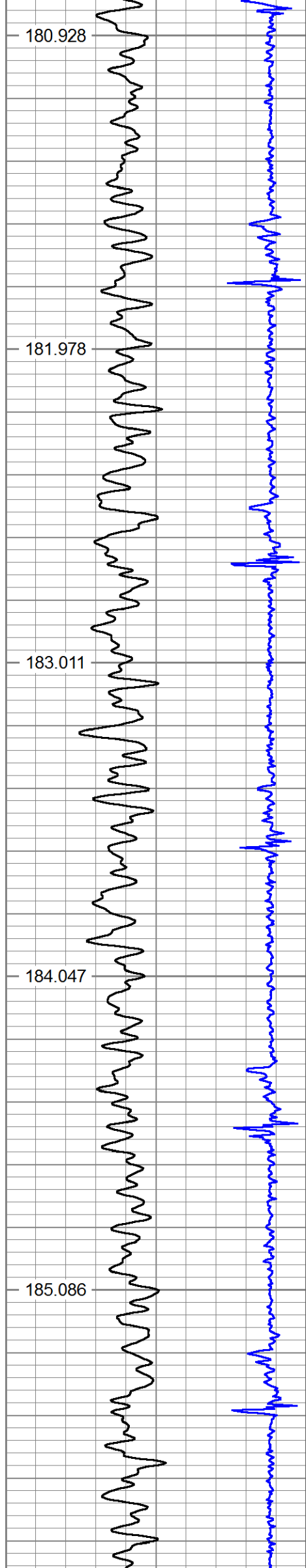


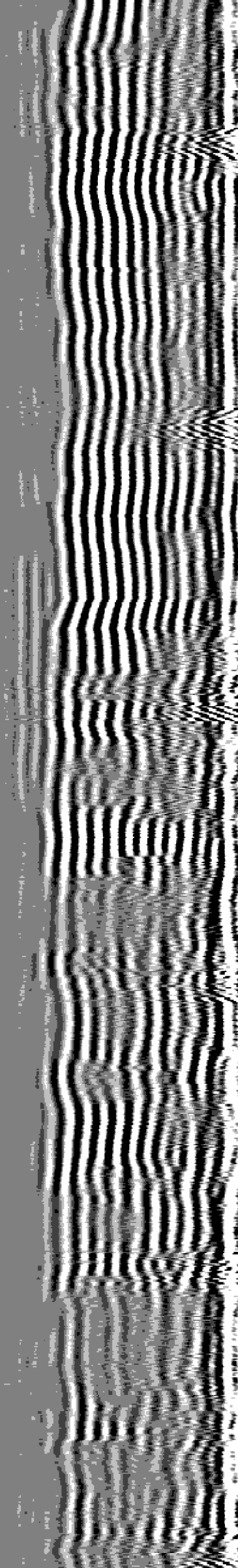
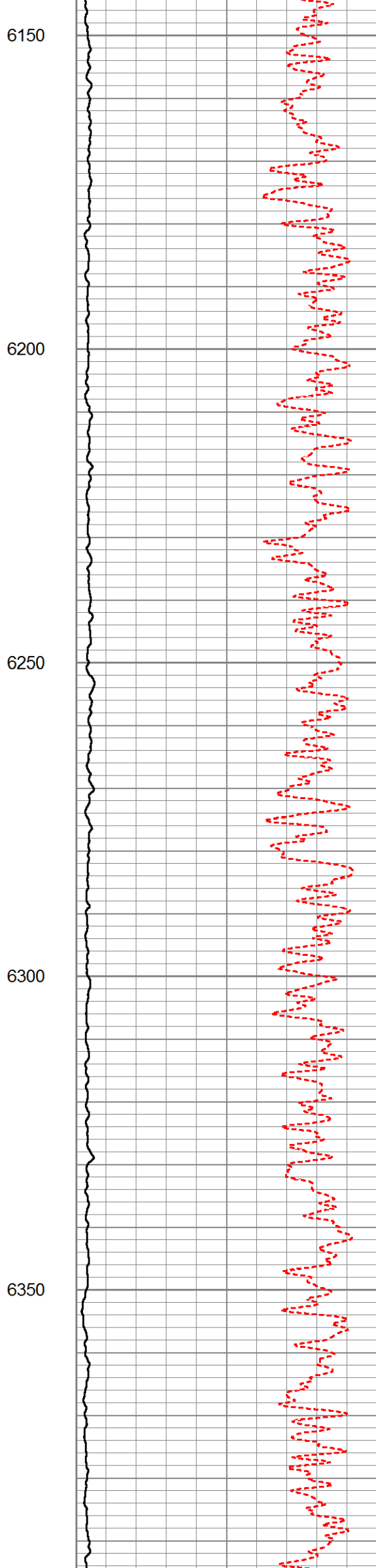
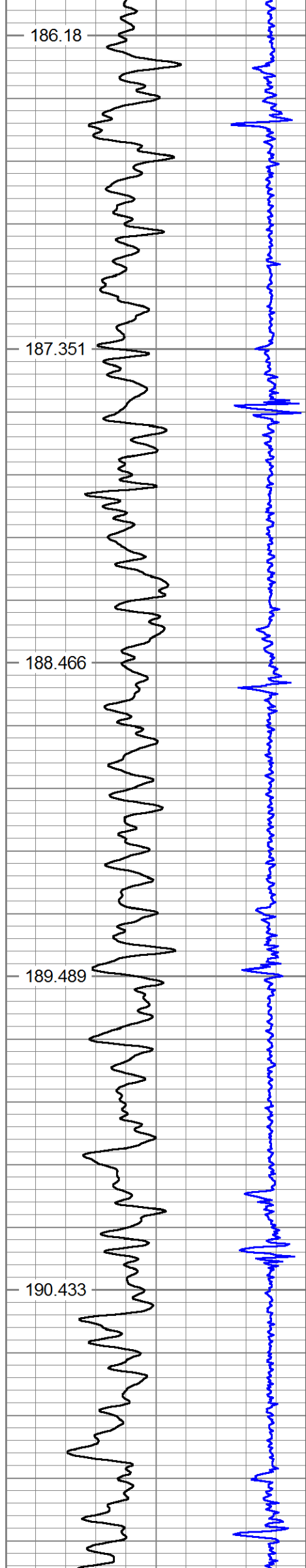


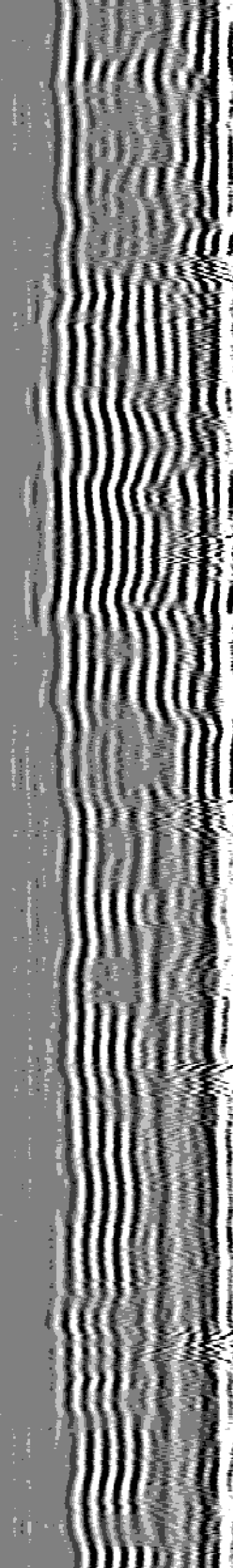
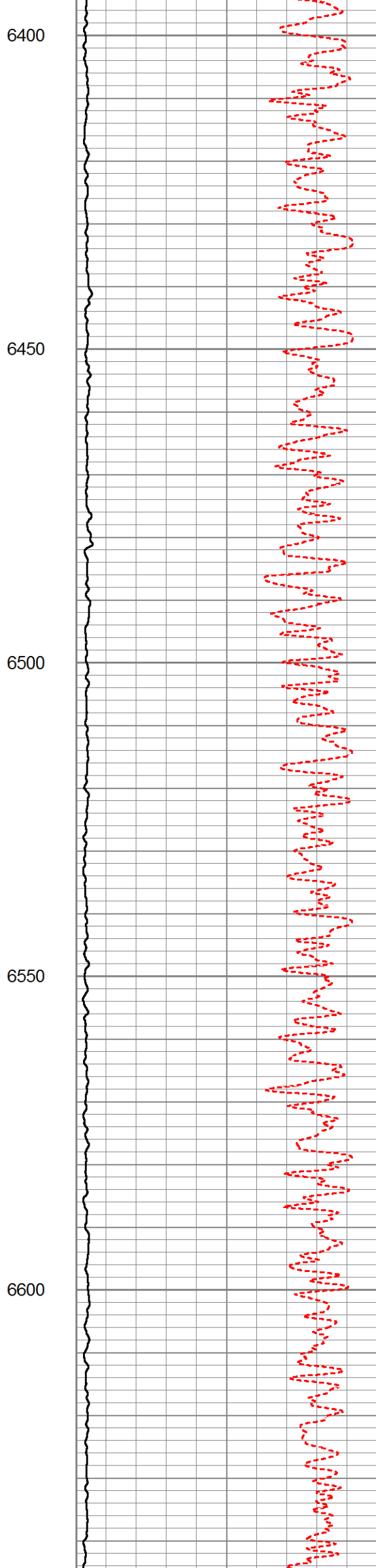
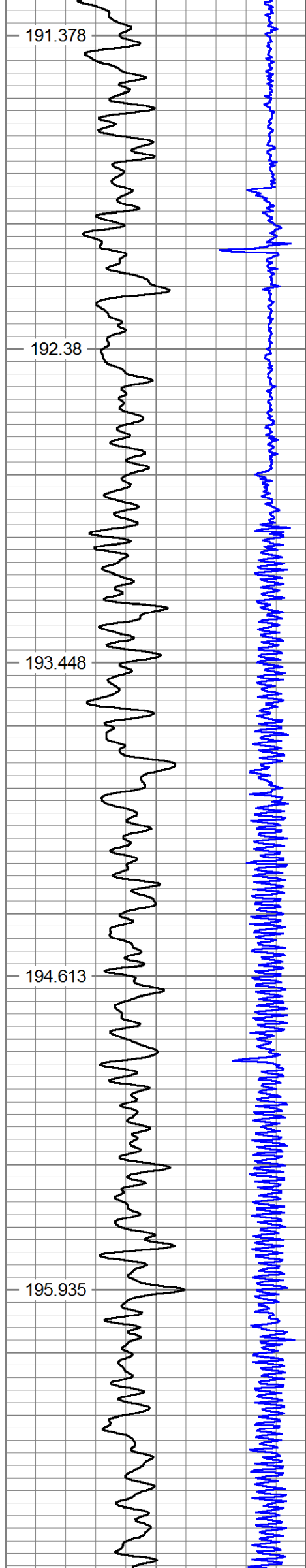


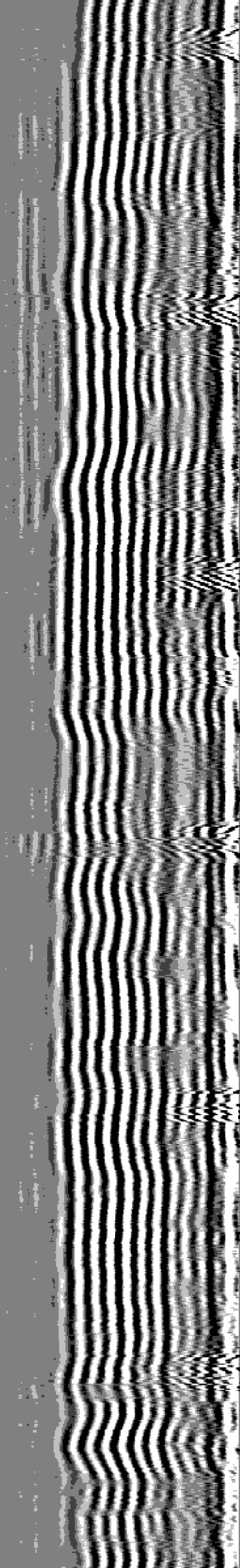
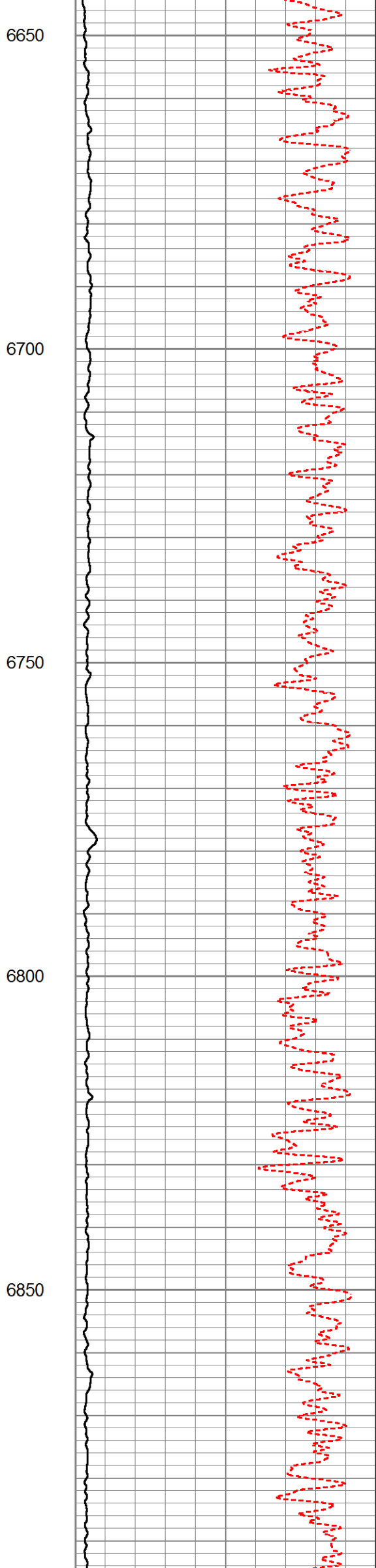
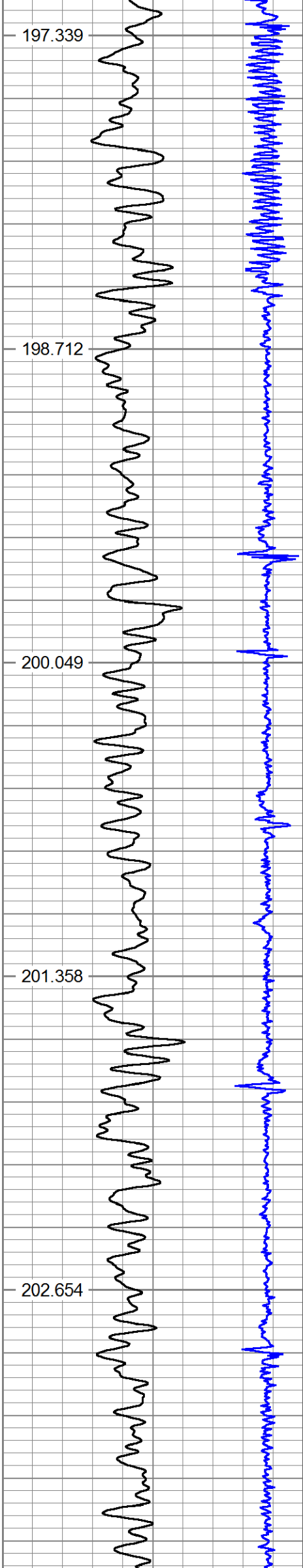


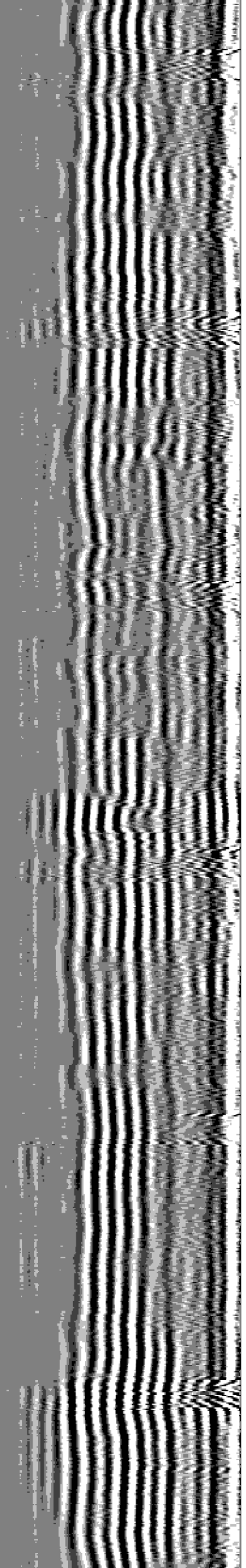
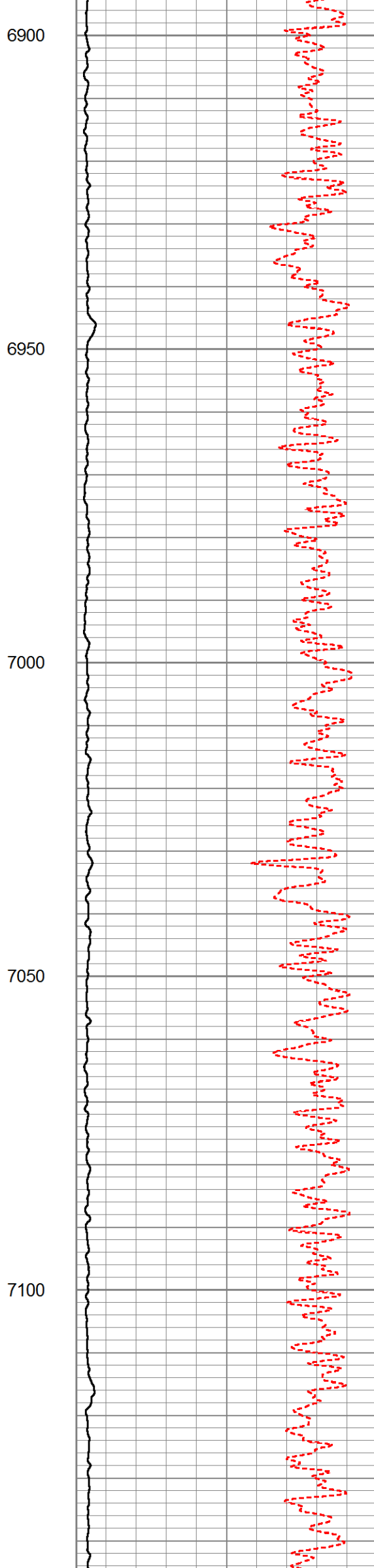
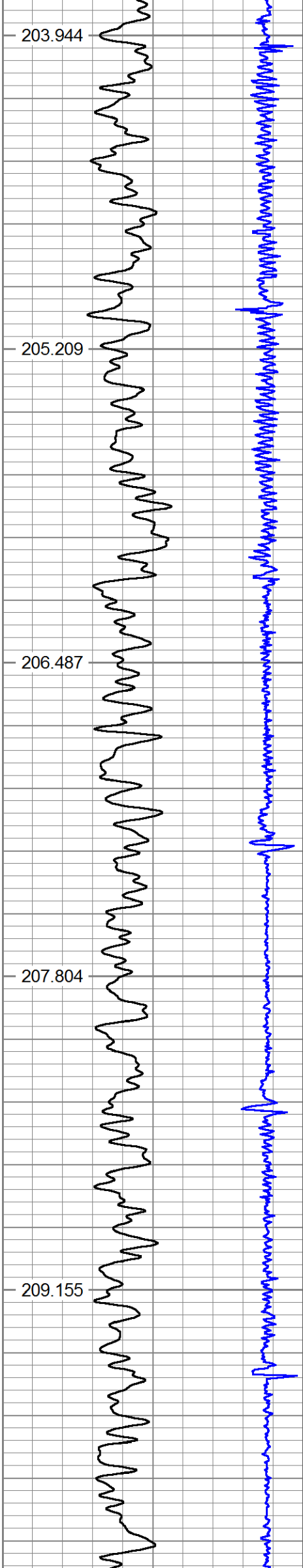


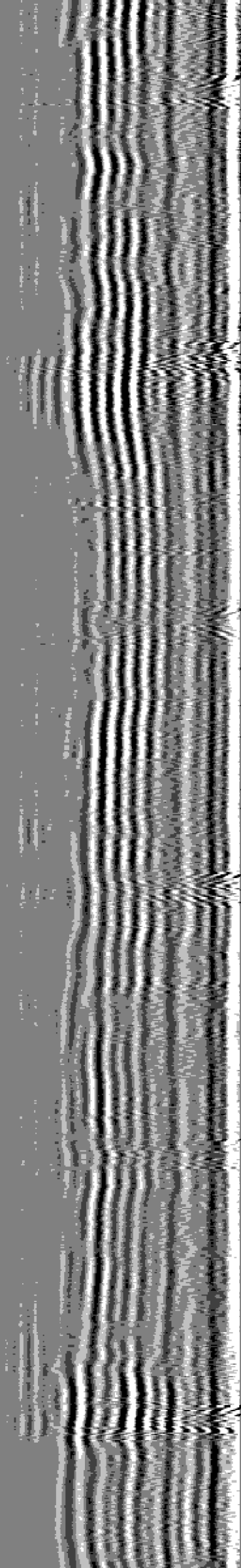
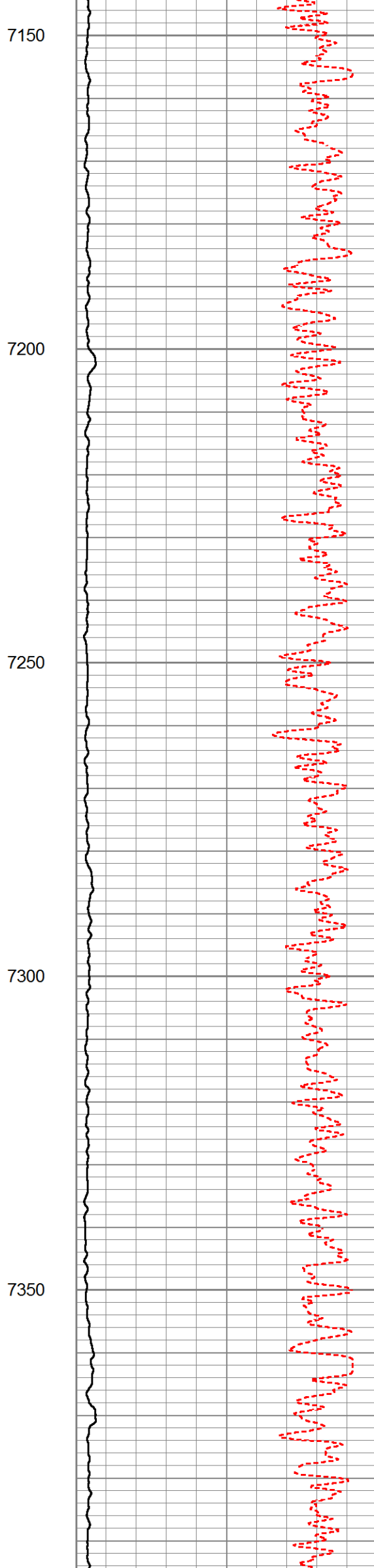
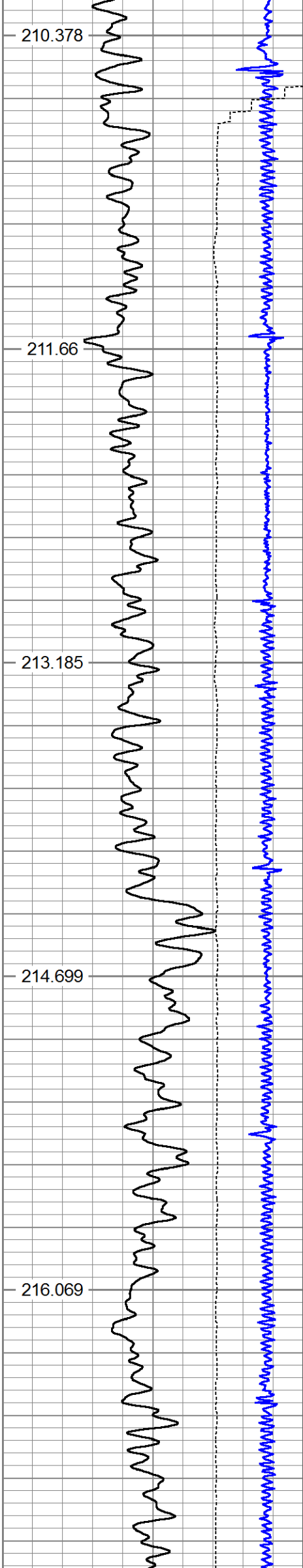


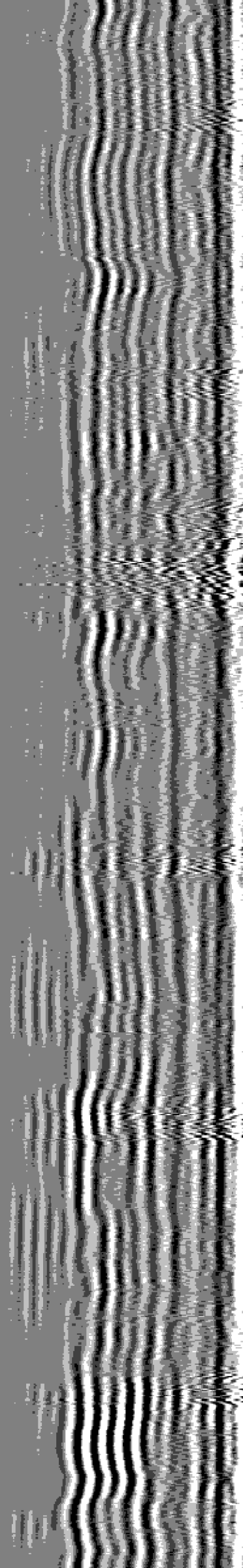
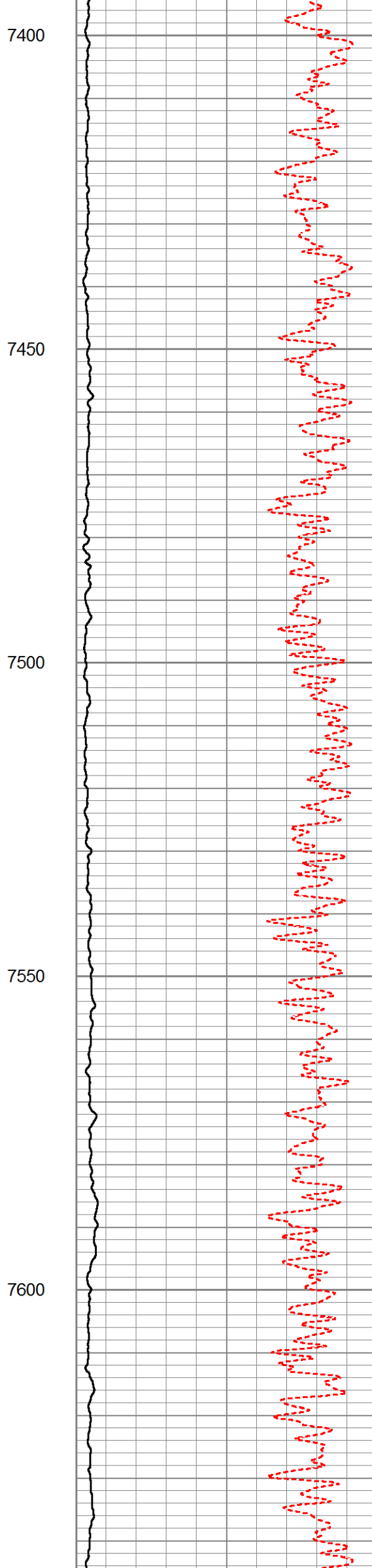
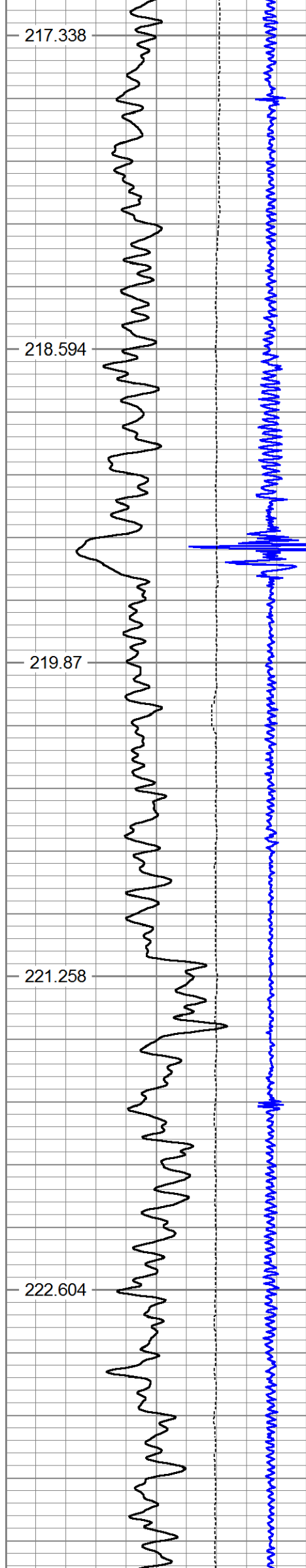


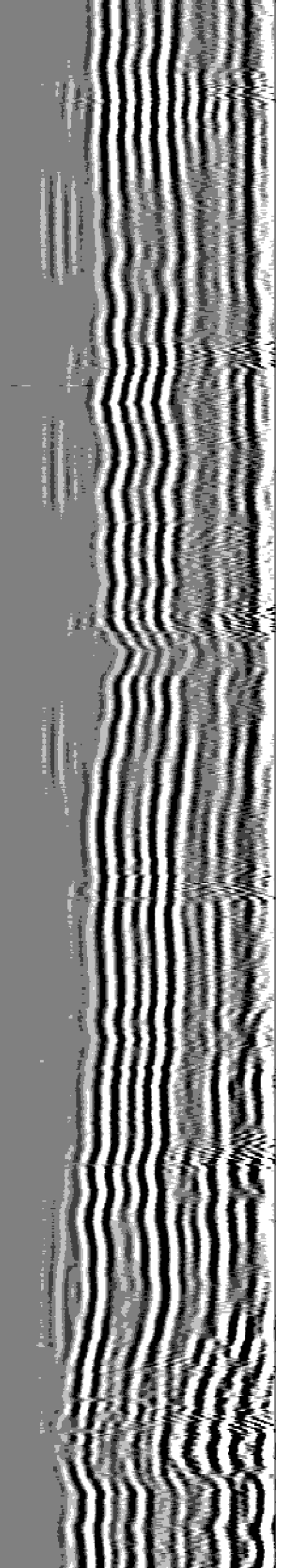
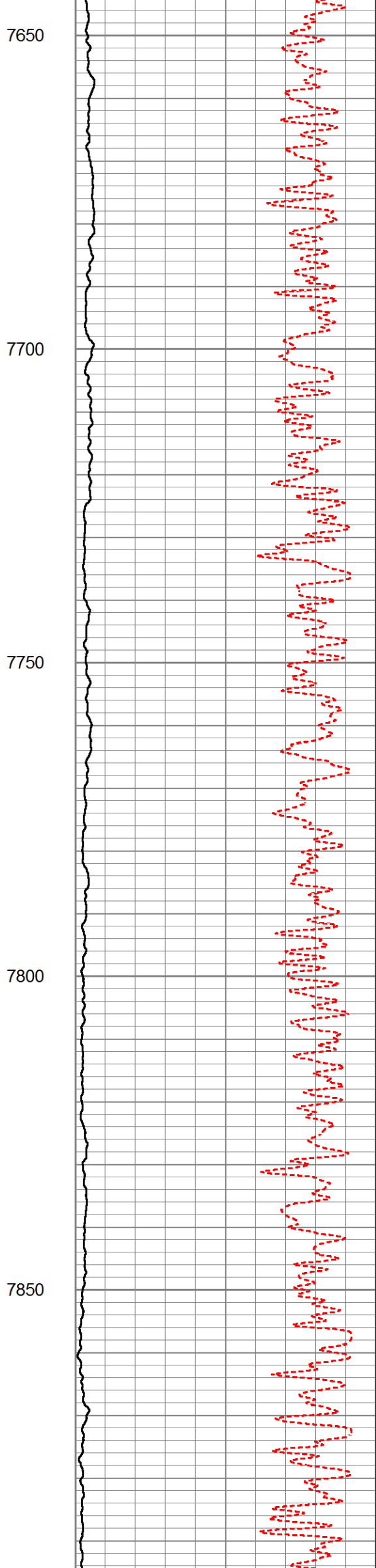
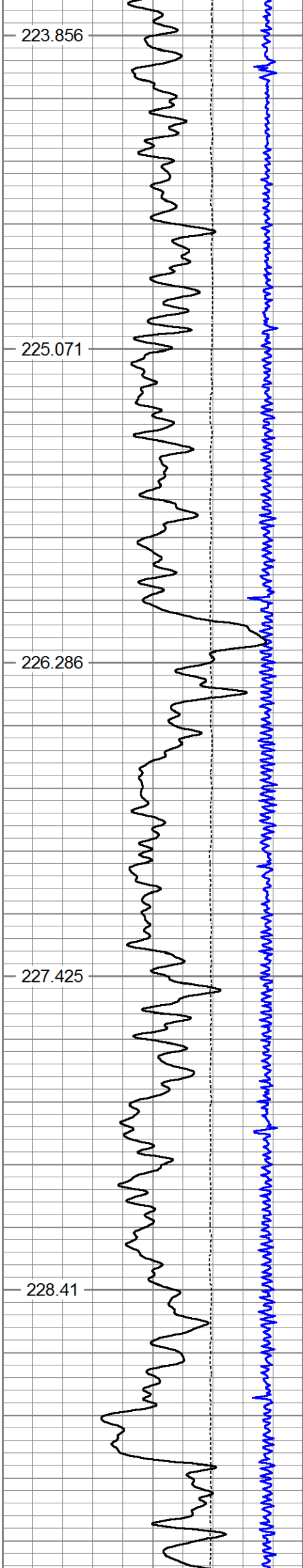


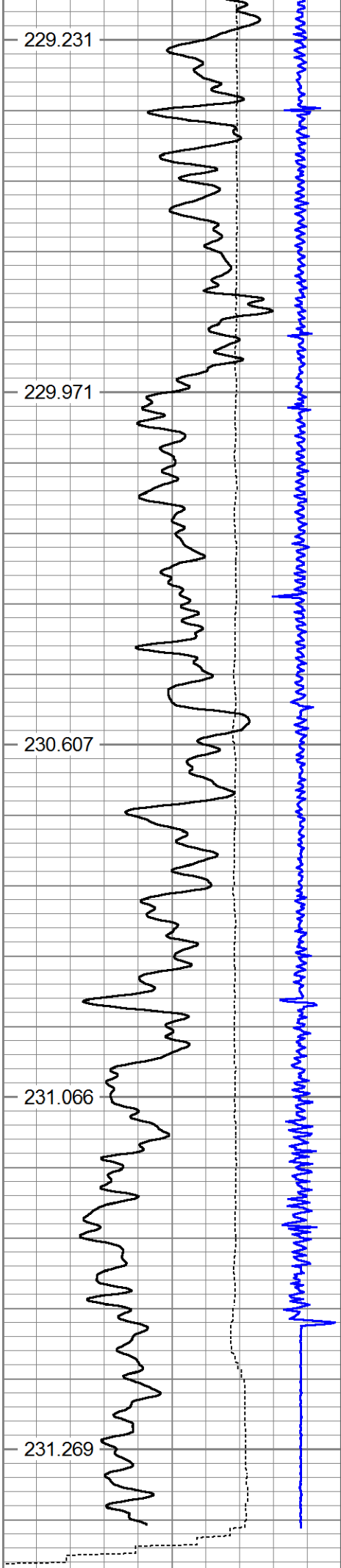






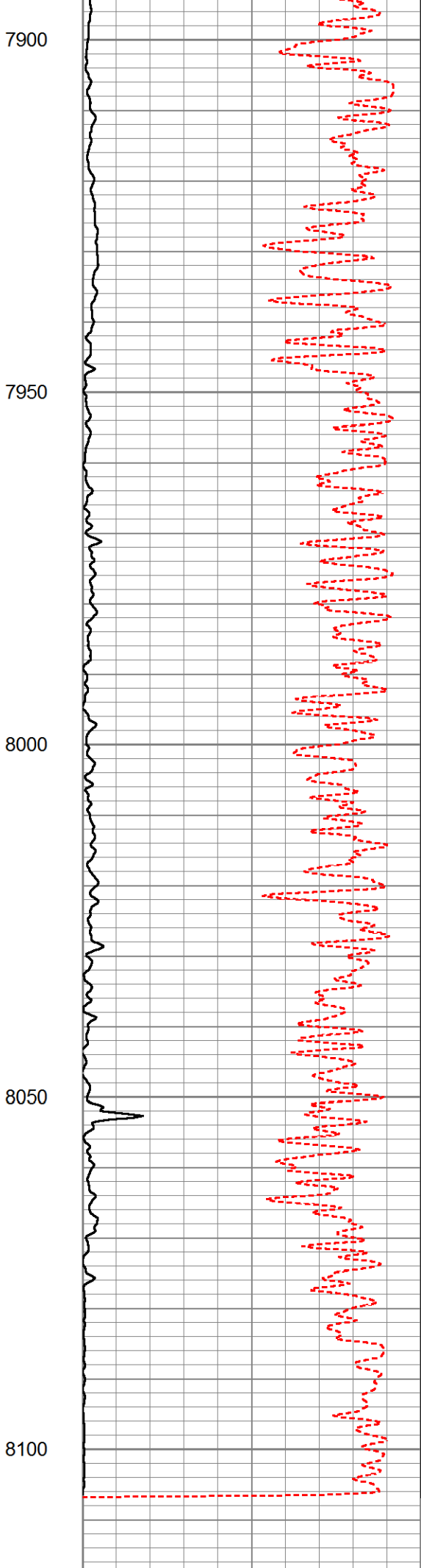




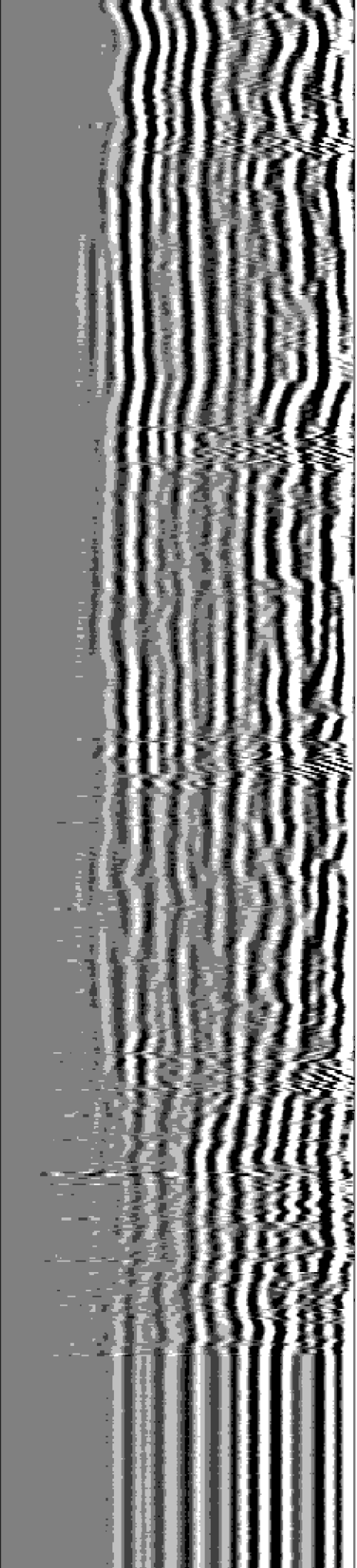


18000	Collar Locator (mV)	-2000
0	Gamma Ray (GAPI)	200
0	Line Speed (ft/min)	100

TEMP
(degF)



0	AMP3FT (mV)	100
300	Travel Time (usec)	400



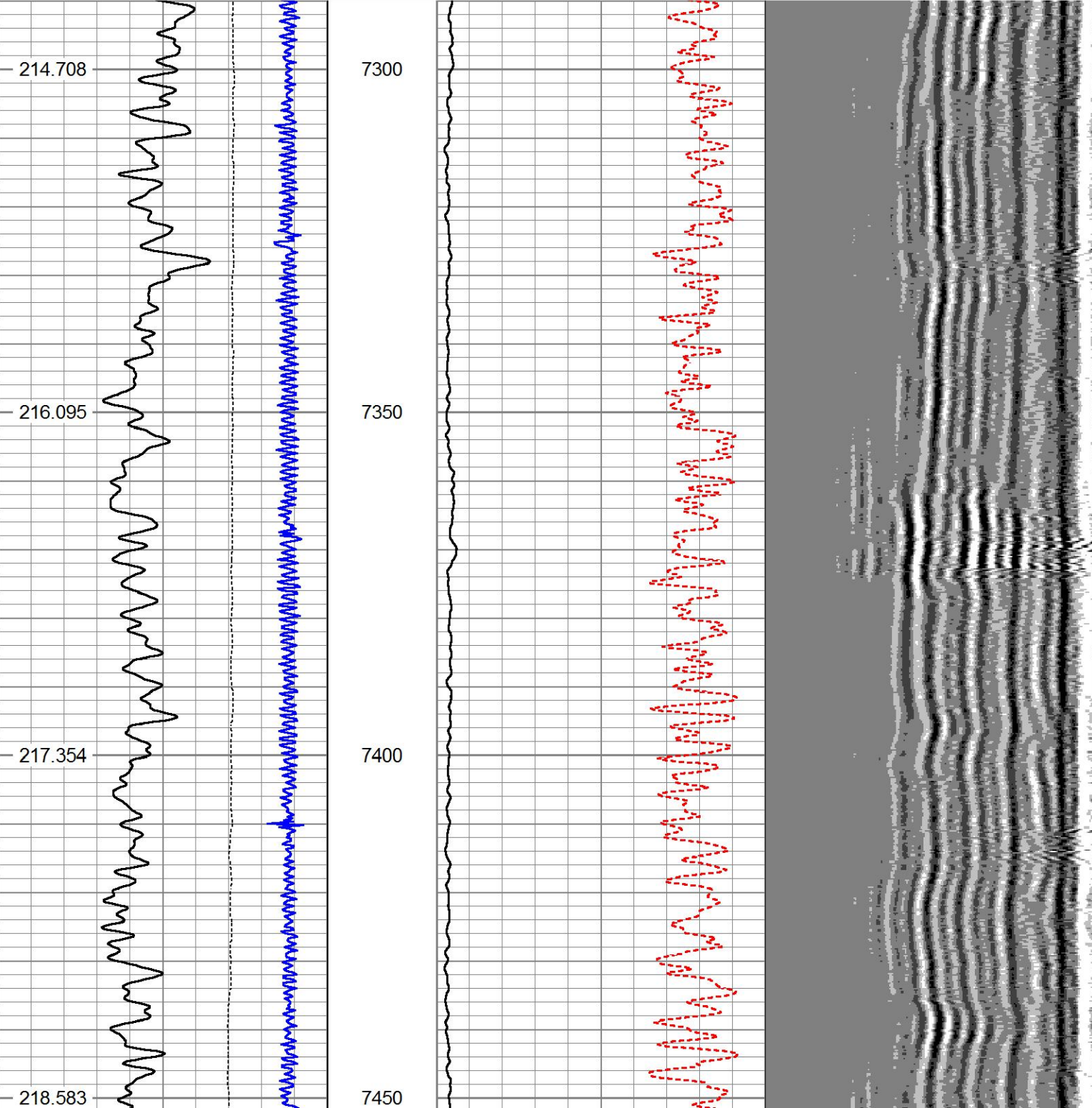
200	WVF5FT (usec)	1200
300	Travel Time (usec)	400

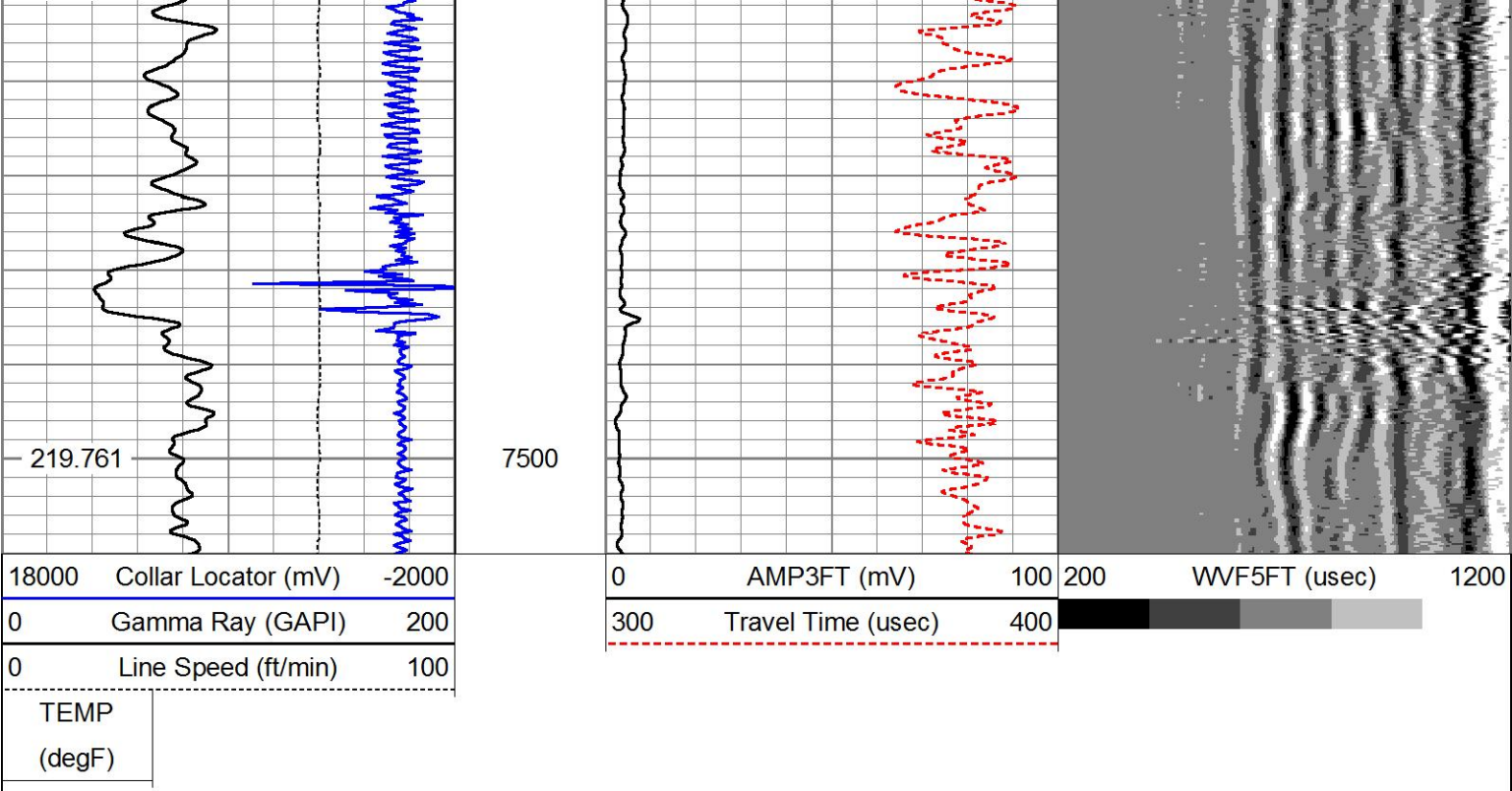
Database File citadel_cbl.db
Dataset Pathname RPT1
Presentation Format cbl_dr
Dataset Creation Fri Nov 09 10:34:31 2018
Charted by Depth in Feet scaled 1:240

18000	Collar Locator (mV)	-2000
0	Gamma Ray (GAPI)	200
0	Line Speed (ft/min)	100

TEMP
(degF)

0	AMP3FT (mV)	100	200	WVF5FT (usec)	1200
300	Travel Time (usec)	400	<div><div></div></div>		





REPEAT PASS

5" = 100'

Log Variables

DatabaseC:\ProgramData\Warrior\Data\citadel_cbl.db
Dataset field/well/run1/MAIN_PASS1/_vars_

Top - Bottom

BHTEMP_Src	BITSIZE in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV
TEMP	7.875	100	5.5	0.361	20	72	1
MINATTN db/ft	MudWgt lb/gal	PERFS	PPT usec	SRFTEMP degF	TDEPTH ft		
0.8	8.33	0	0	0	0		

Calibration Report

Database File citadel_cbl.db
Dataset Pathname RPT1
Dataset Creation Fri Nov 09 10:34:31 2018

Temperature Calibration Report

Serial Number: 0001
Tool Model: 1.375TEMP
Performed: Fri Jul 05 02:18:21 1996

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	1.00 degF	1.00 cps

Gain: 0.10
Offset: 0.00
Delta Spacing 1

Gamma Ray Calibration Report

Type / Serial: Probe / 275

SHOP CALIBRATION

Thu Aug 07 08:00:19 2008

	Counts/Sec.	Gain	Offset	Jig	Units
Background	35.0				cps

Calibrator	160.0	1.0000	cps GAPI/cps
PRIMARY VERIFICATION			
Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI
BEFORE SURVEY VERIFICATION			
Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI
AFTER SURVEY VERIFICATION			
Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI


Segmented Cement Bond Log Calibration Report

Serial Number:	11506710		
Tool Model:	Probe		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	160.543	ft	

Master Calibration, performed Thu Nov 08 15:33:08 2018:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.946	0.000	72.000	76.124	0.000
CAL						
5'	0.000	0.924	0.000	72.000	77.938	0.000
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

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

Air Zero Calibration, performed Thu Nov 08 15:16:19 2018:			
	Raw (v)		Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			
S2			
S3			
S4			
S5			
S6			
S7			
S8			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
WVF3FT	11.75		STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.28	1.44	5.25
			CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
			CBL-Probe (11506710) Probe 2.75" Dual Receiver Bond	8.75	2.75	60.00
WVF5FT	9.83					
CCL DCCL	6.08 5.51		CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
GR	3.75		GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
TEMP	0.58		TEMP-1.375TEMP (0001) Temperature Tool	1.88	1.38	30.00

Dataset:
Total length:
Total weight:
O.D.:

citadel_cbl.db: field/well/run1/MAIN_PASS1
21.99 ft
165.25 lb
2.75 in

Company	TRUE OIL, LLC		
Well	CITADEL 5-64 15-16-1CHZ		
Field	WILDCAT		
County	ARAPAHOE	State	CO
HALLIBURTON		CEMENT BOND LOG	