

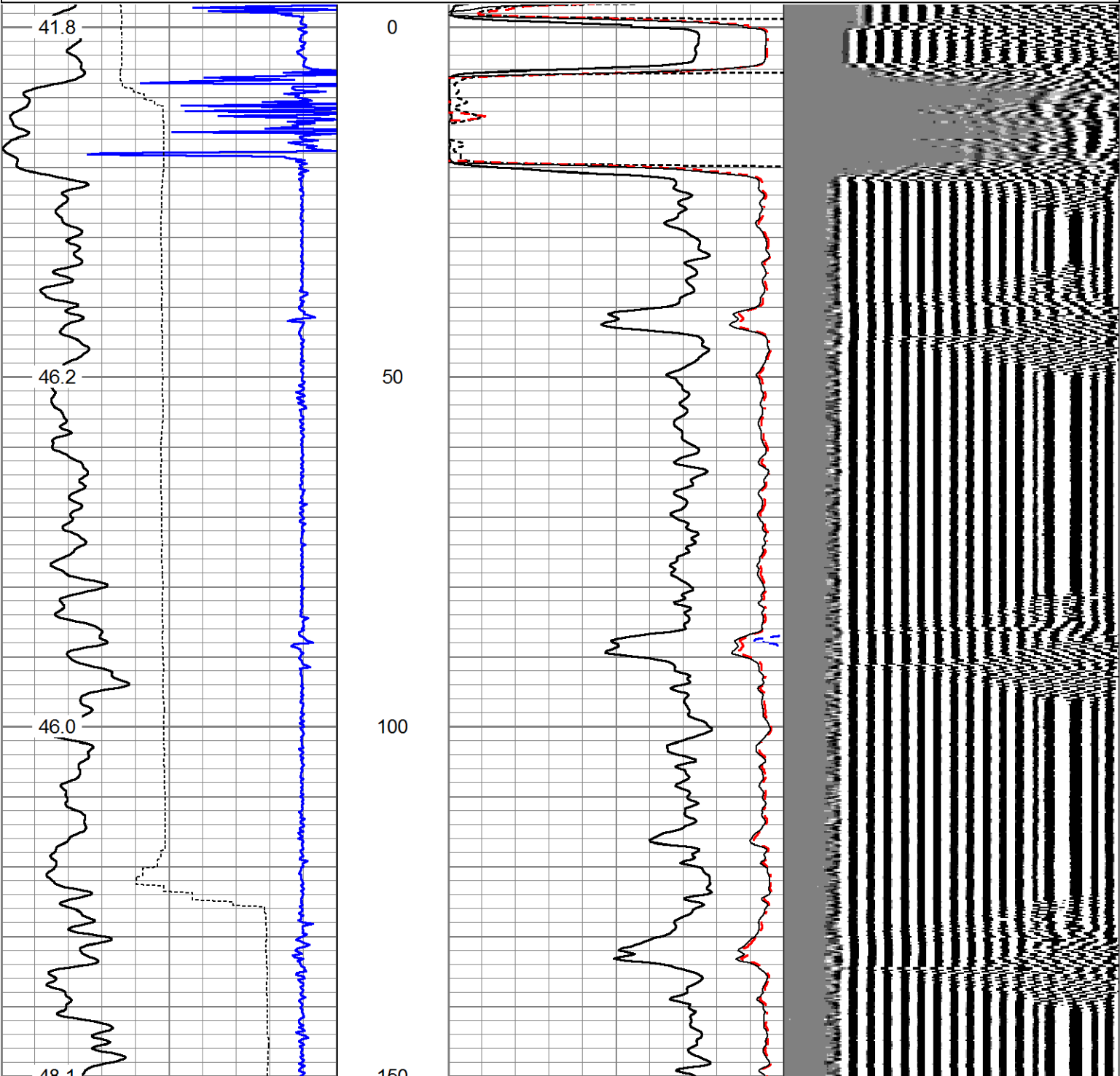
CEMENT BOND LOG

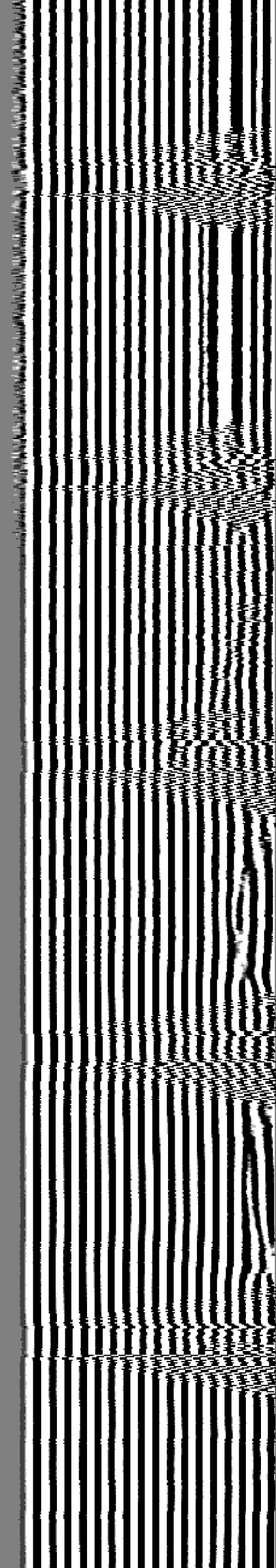
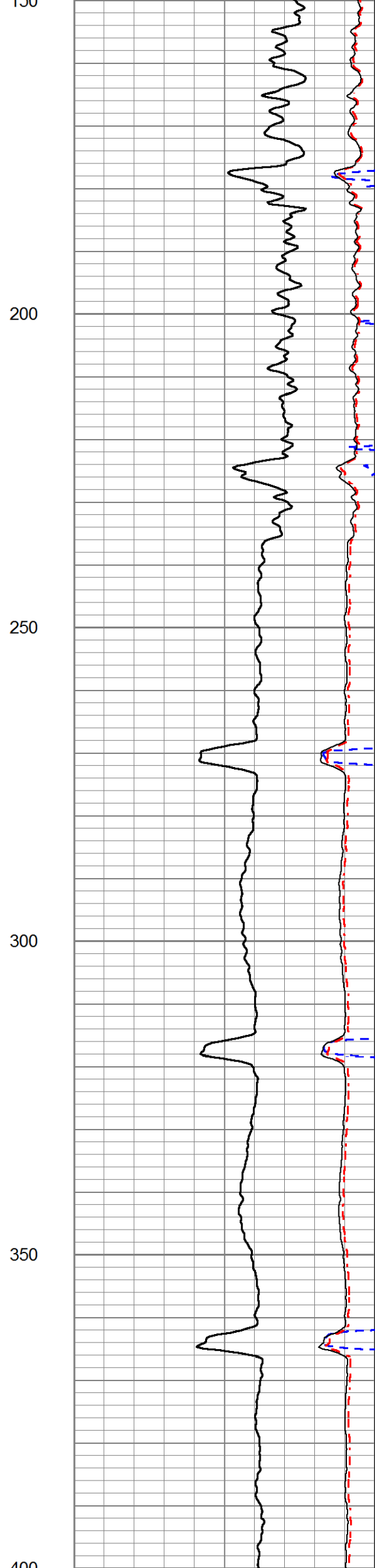
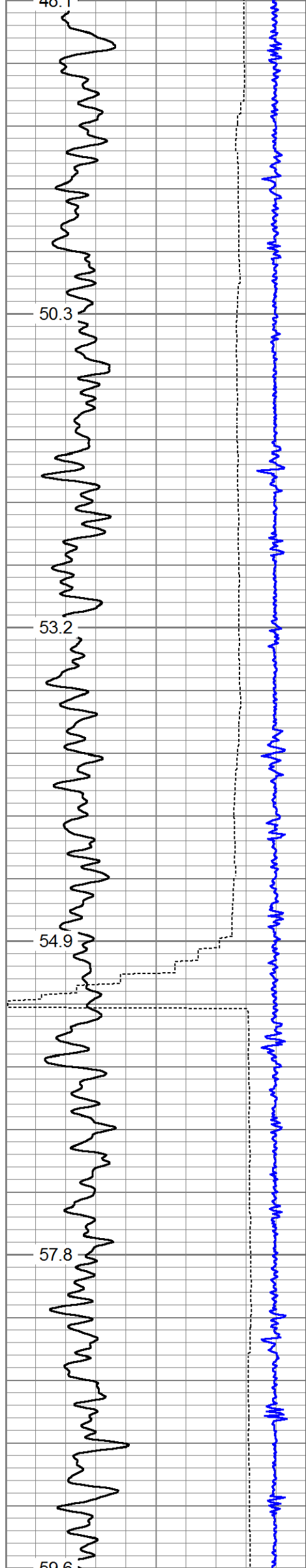
Service Ticket No.	905408536	API No.	0512347635	PGM Ver	WARRIOR 8
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
TELEMETRY		CAST		CBL	
Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	12236349	Serial No.	11488892	Serial No.	11343286
Model No.	TTTCU-002	Model No.	CAST-M	Model No.	PROBE CBL
Diameter	1.69"	Diameter	3.125"	Diameter	2.75"
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

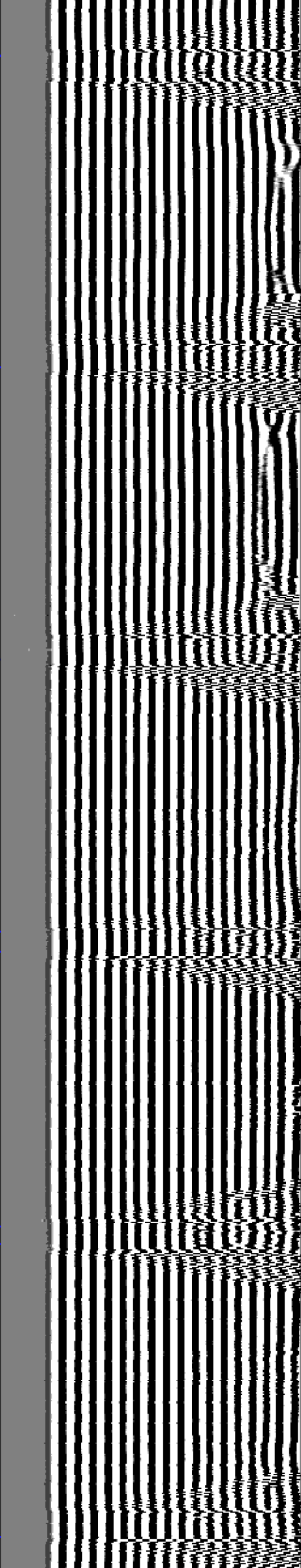
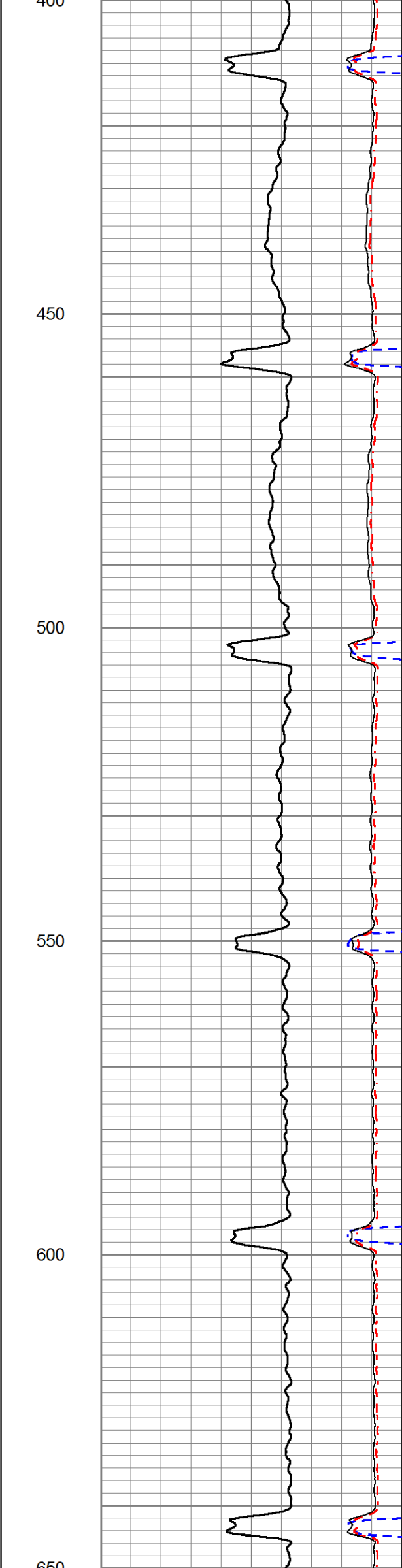
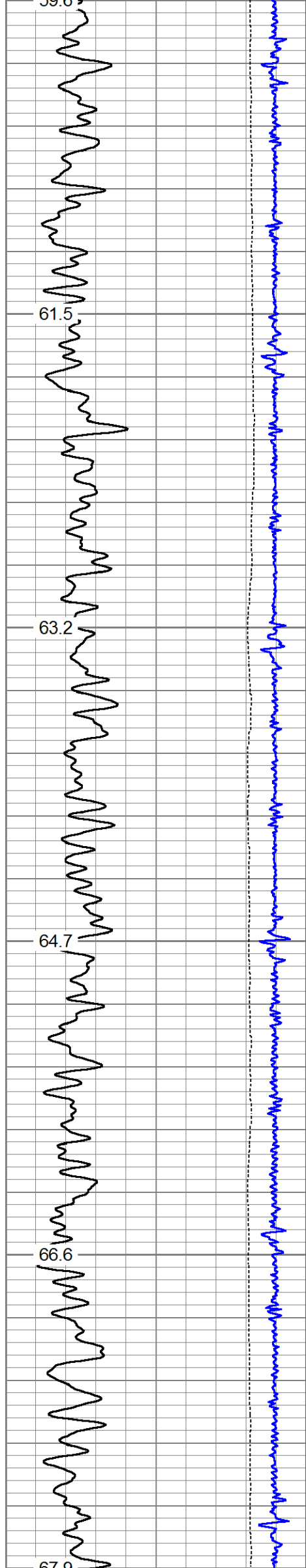
No.	FROM	TO	Pressure	TEMP				
ONE	6730'	SURFACE	2500	80				
	GAMMA		AMP					
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
	0	150	0	100				
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

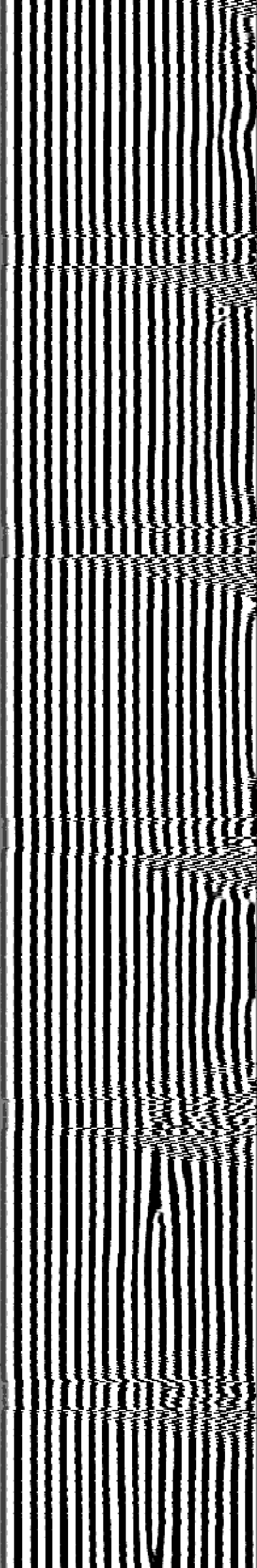
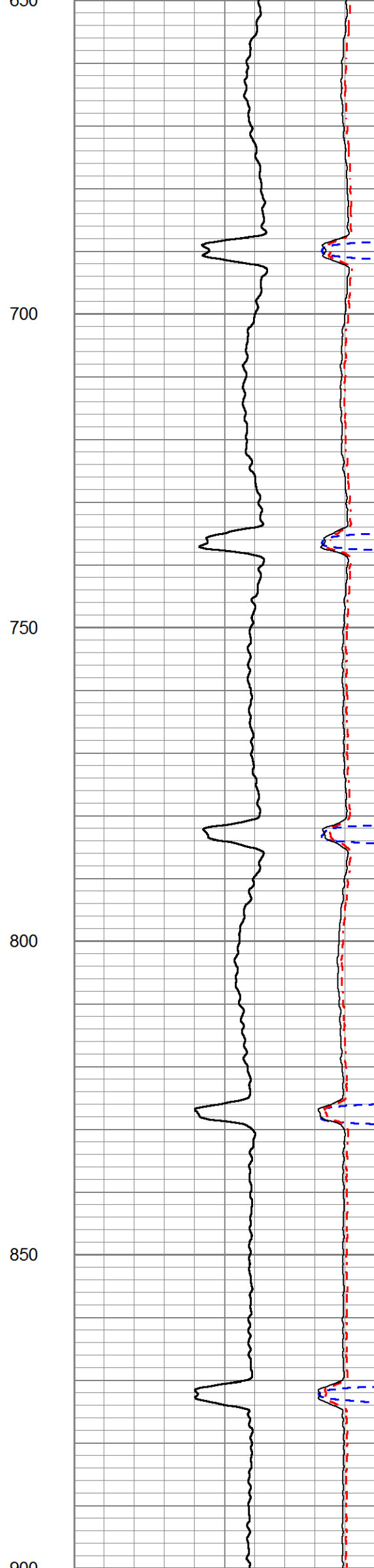
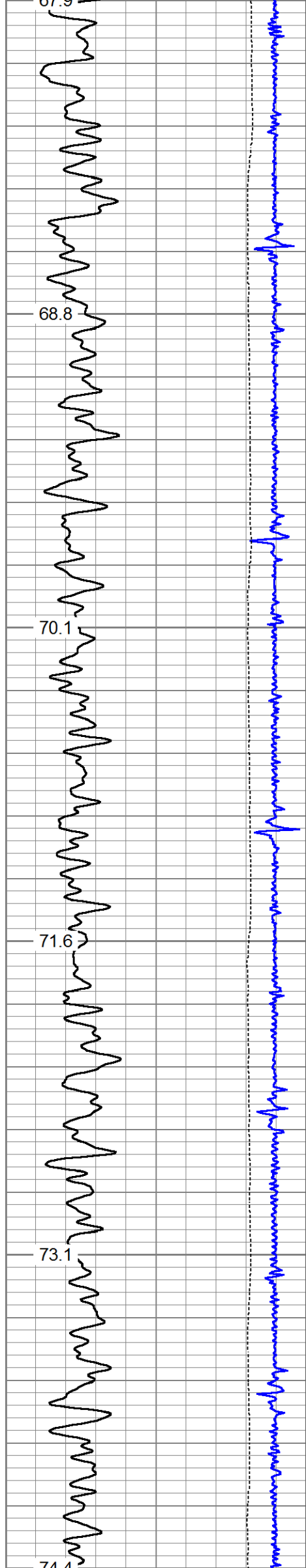
Database File	src_bost_farms_40c-8-l_cbl.db
Dataset Pathname	Bost/40C-8-L_CBL/ONE/MAIN.1
Presentation Format	cbl_dr
Dataset Creation	Sun Jan 20 20:52:49 2019
Charted by	Depth in Feet scaled 1:240

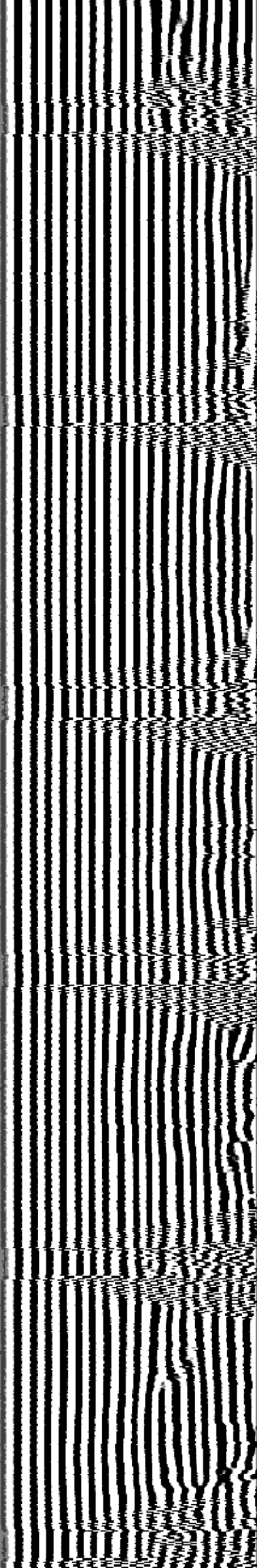
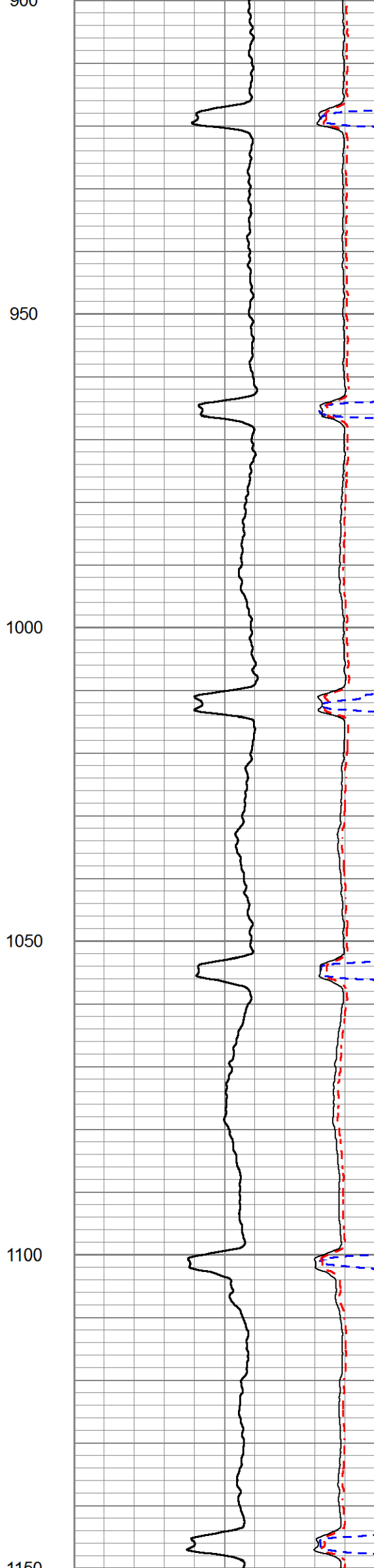
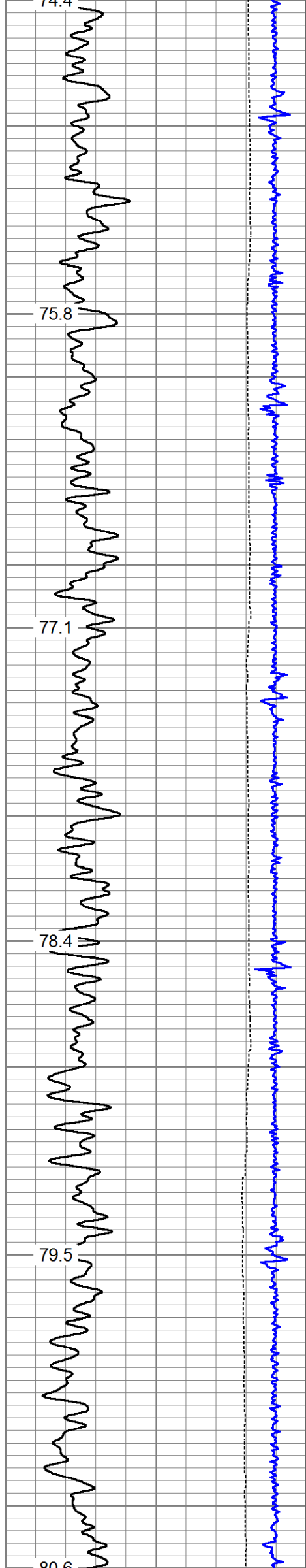
20000	DCCL (mV)	-2000	0	AMP3FT (mV)	100	200	WVF5FT (usec)	1200
0	Gamma Ray (GAPI)	150	200	TT3FT (usec)	275			
0	Line Speed (ft/min)	150	-15	Attenuation (db/ft)	0			
TEMP			1	Bond Index	0			
(degF)			200	PPT (usec)	275			

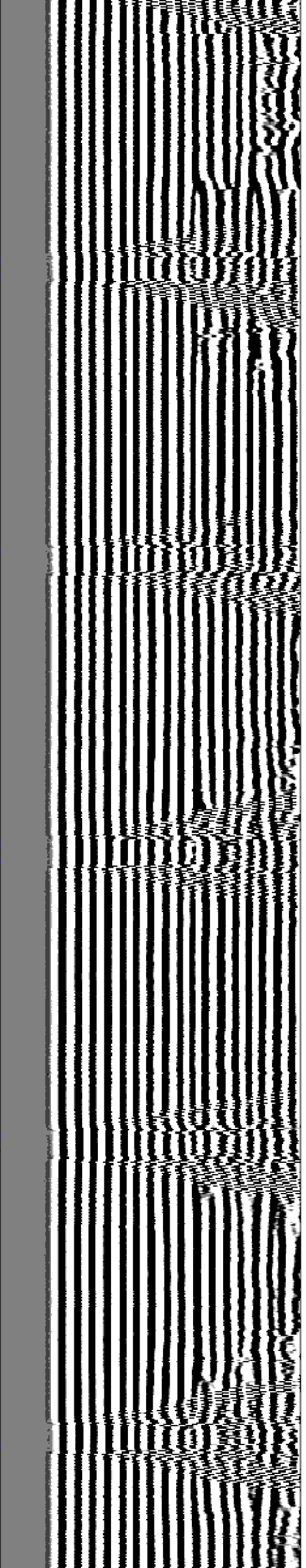
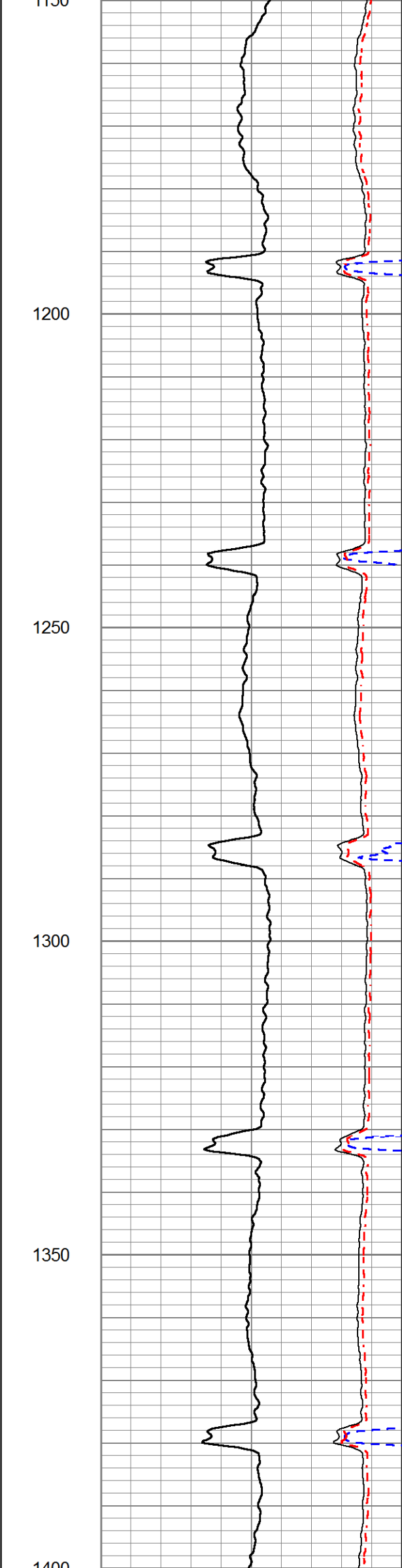
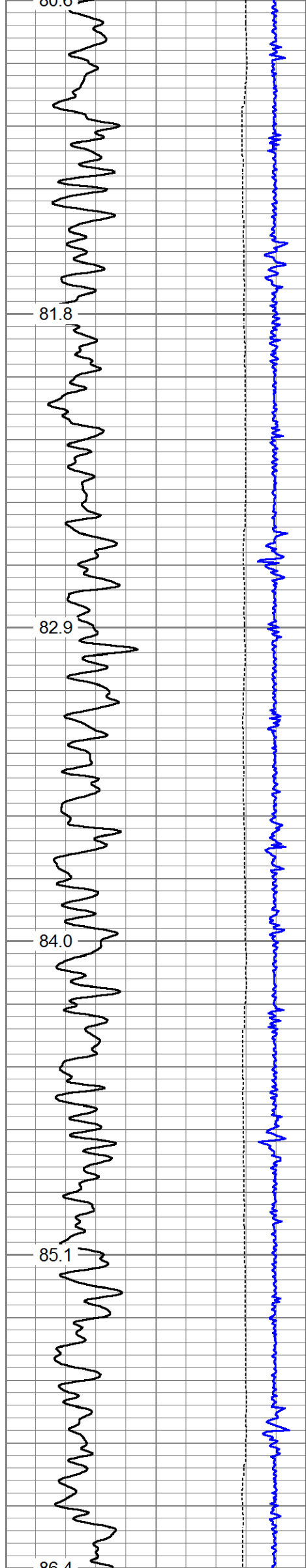


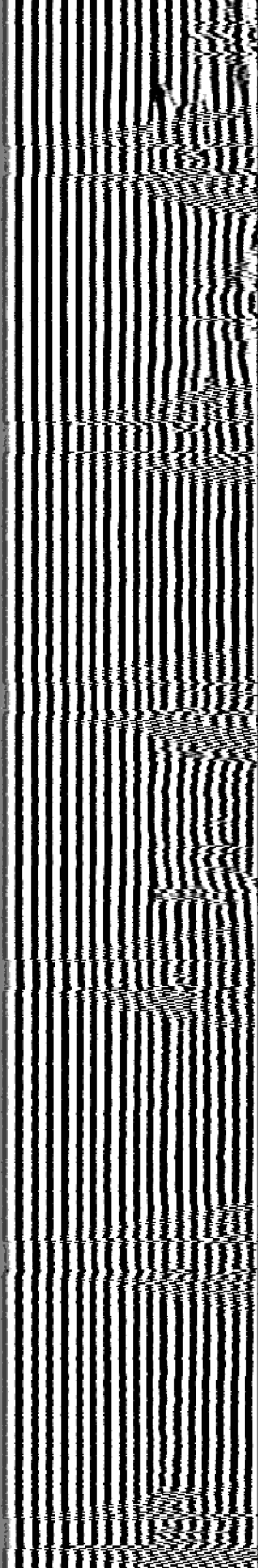
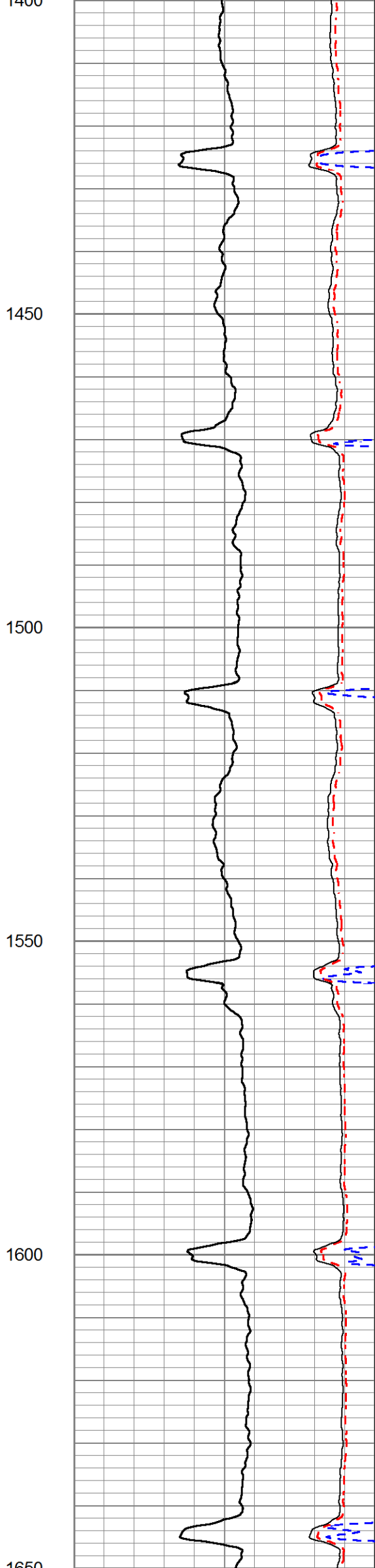
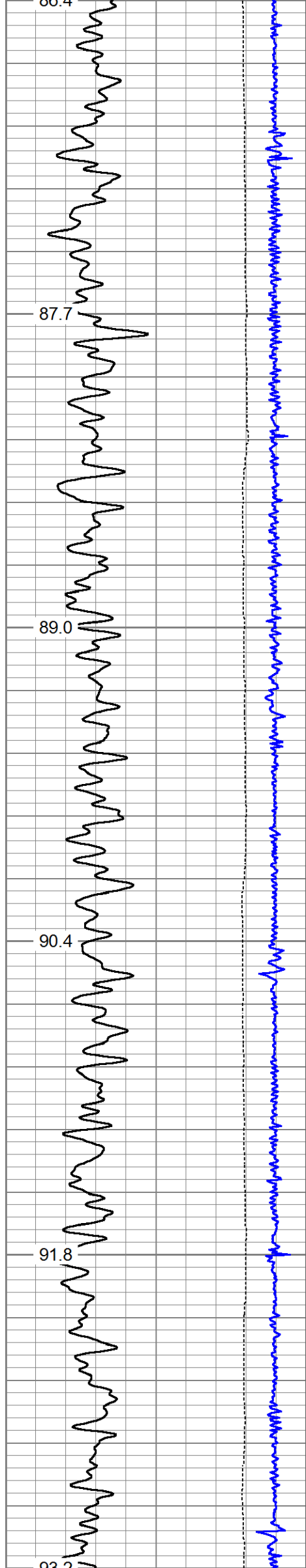


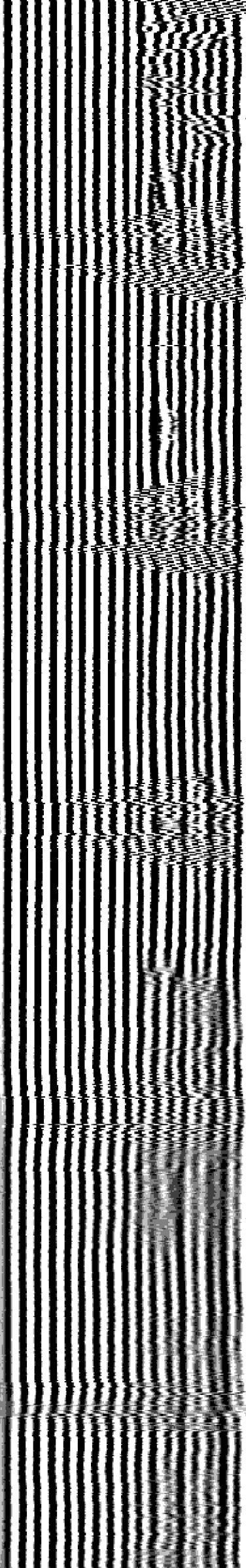
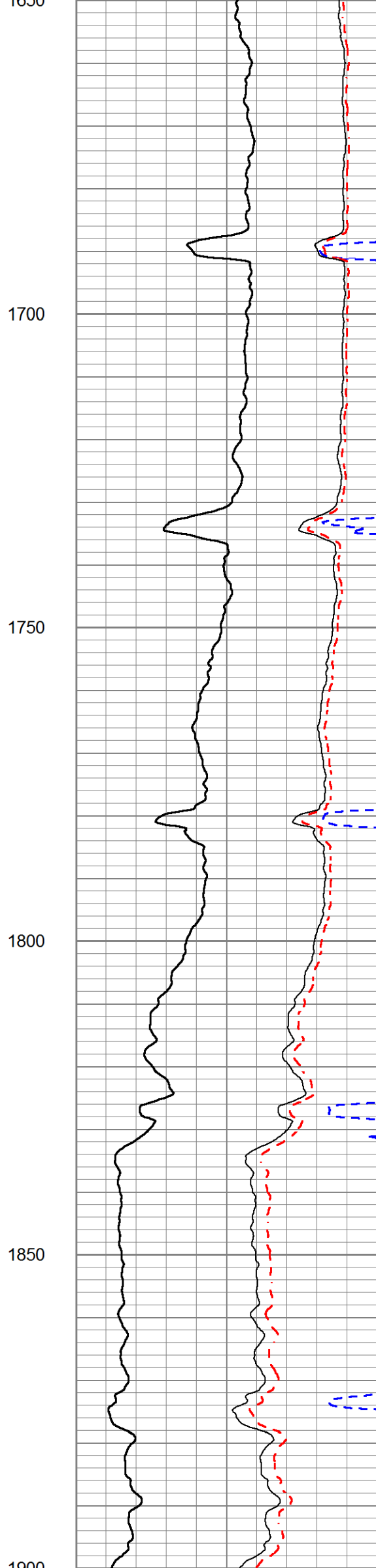
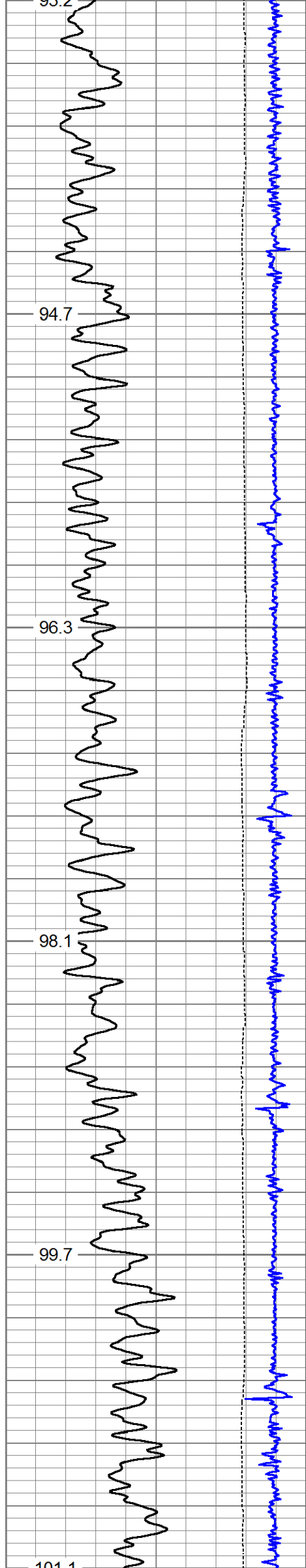


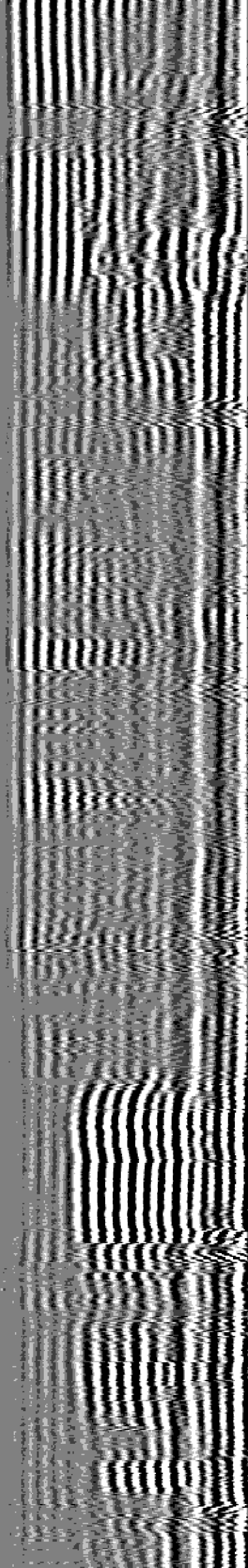
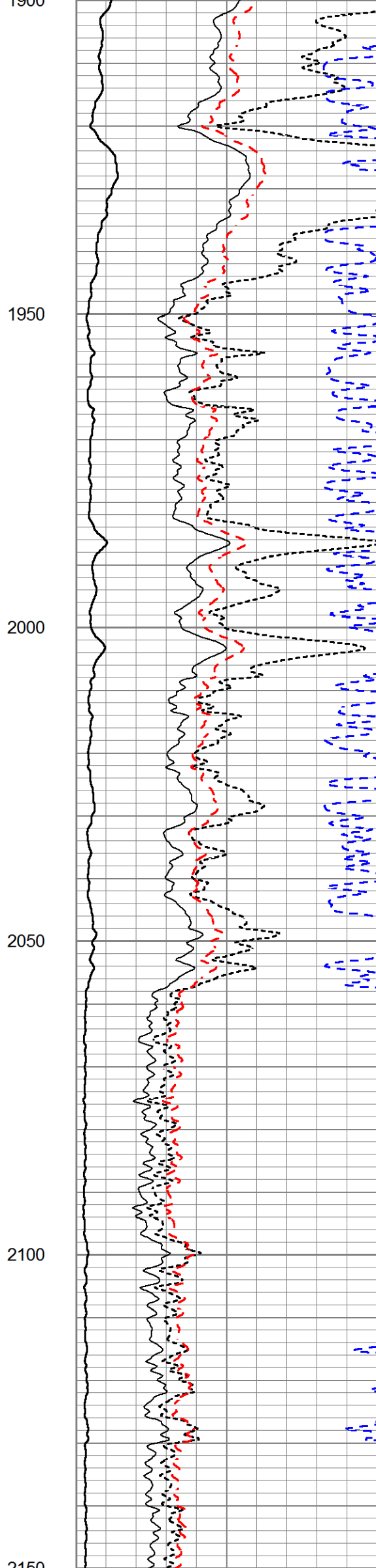
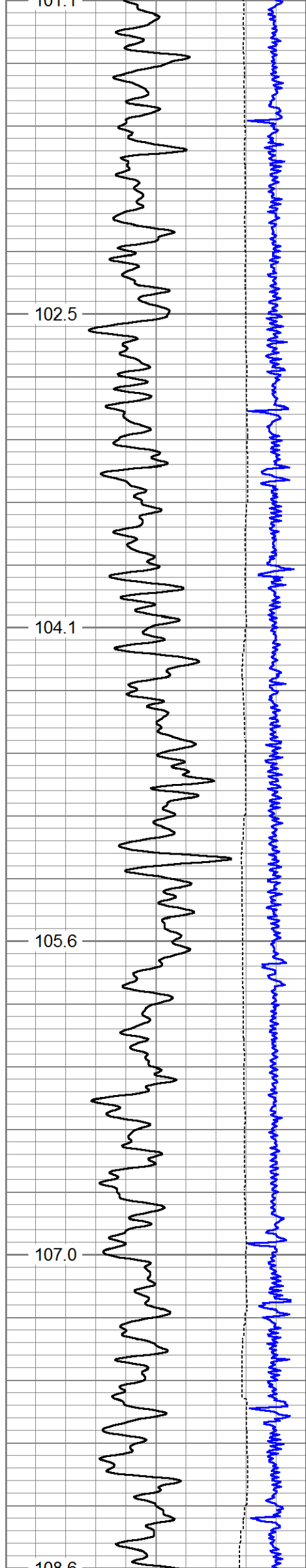


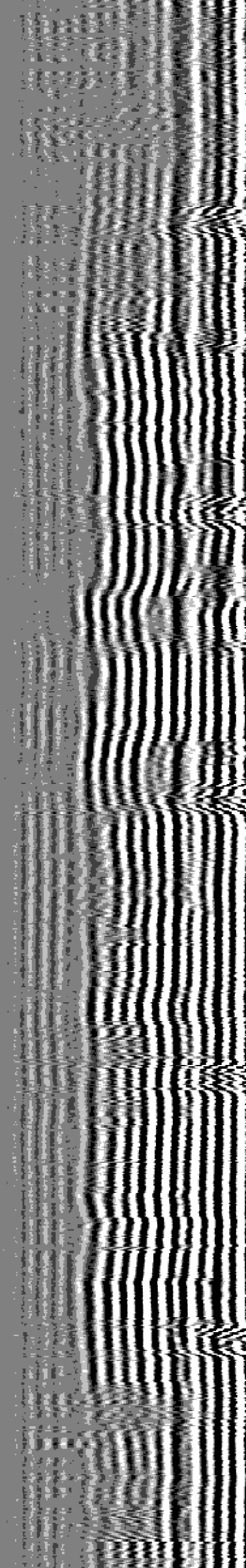
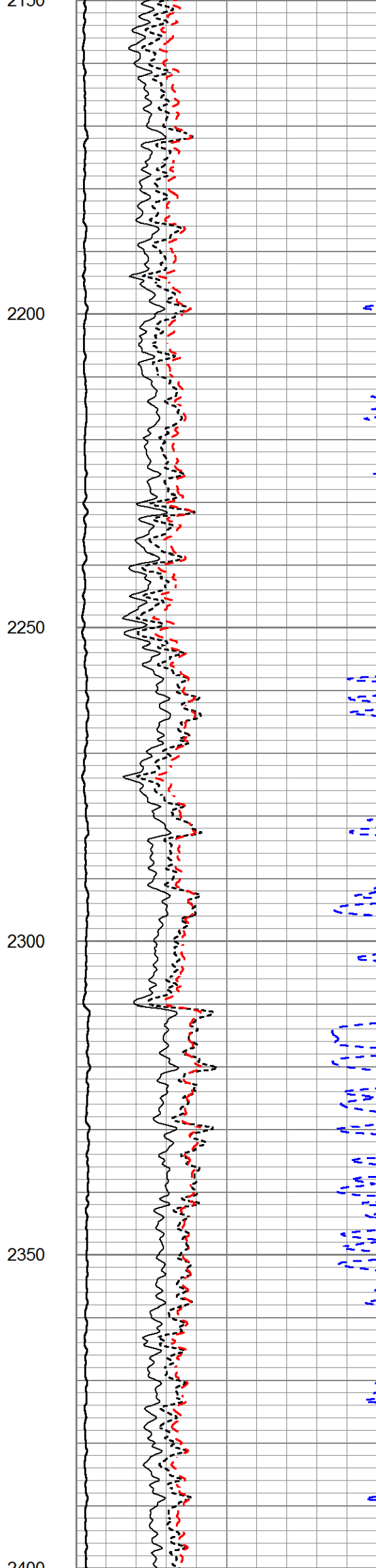
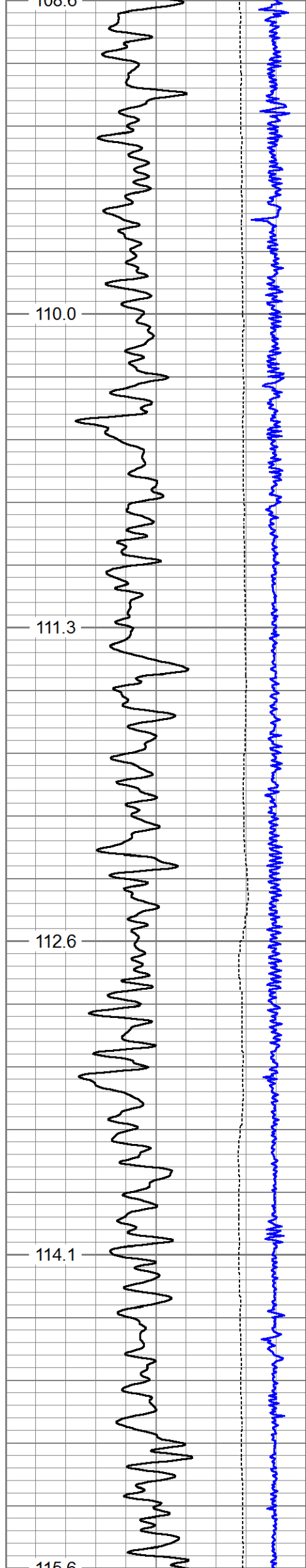


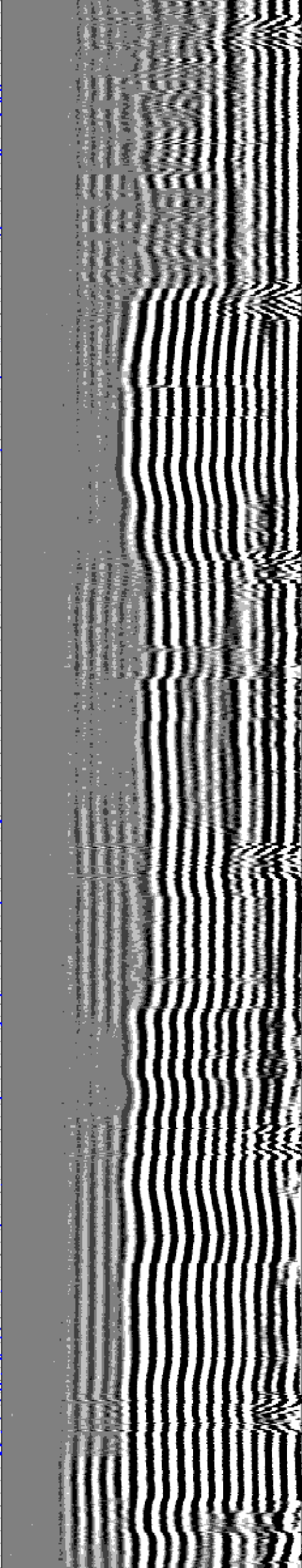
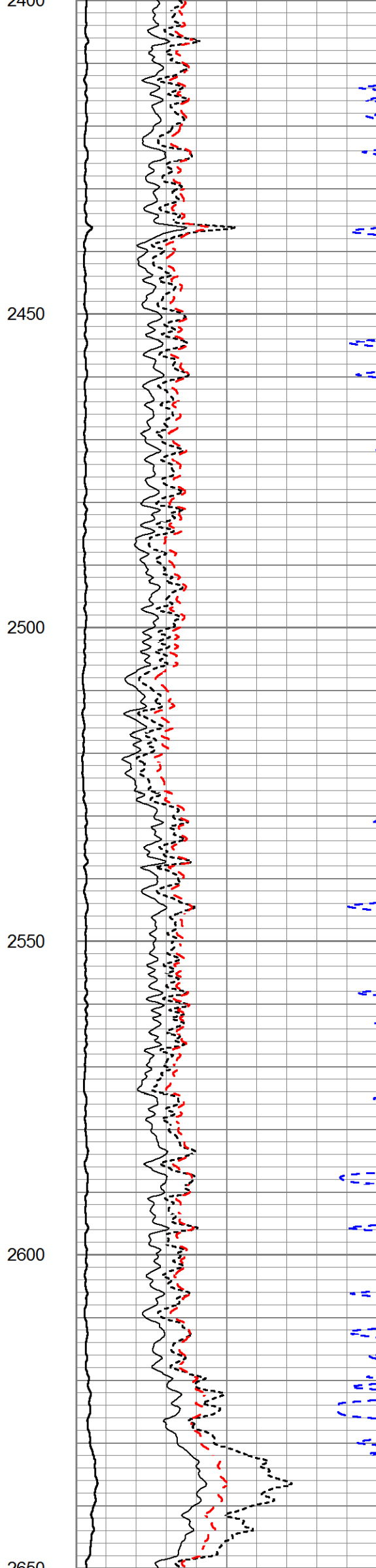
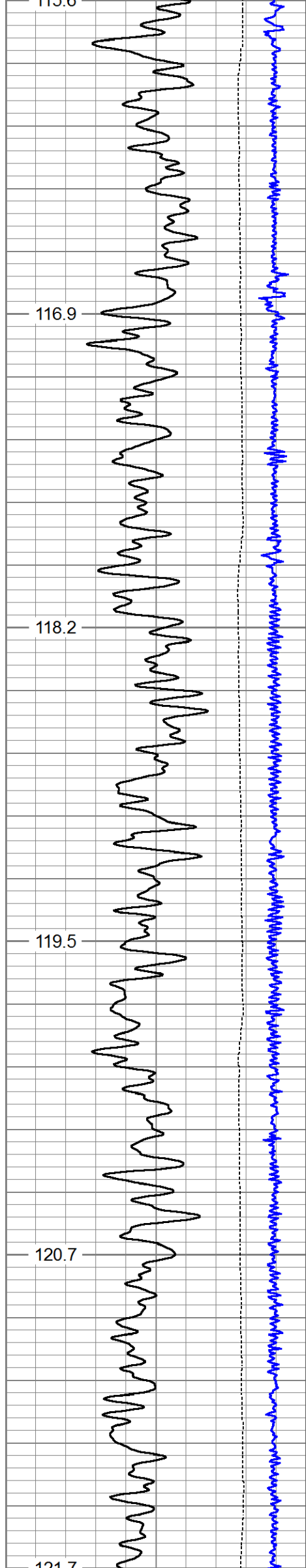


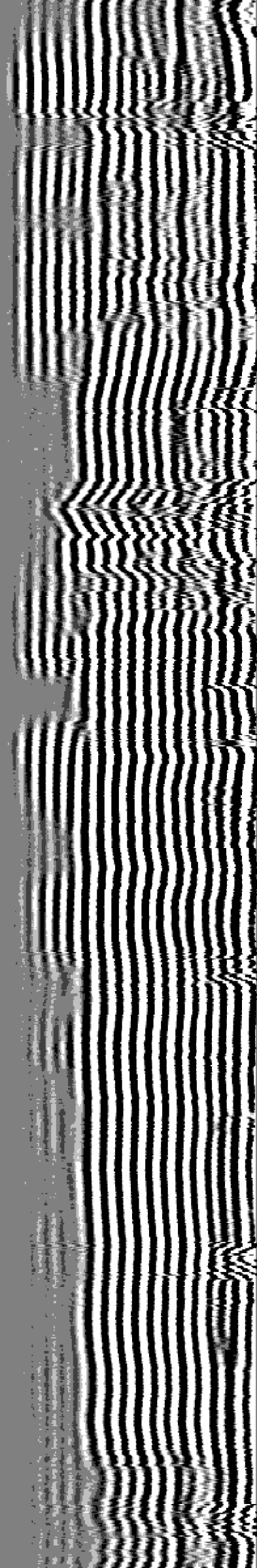
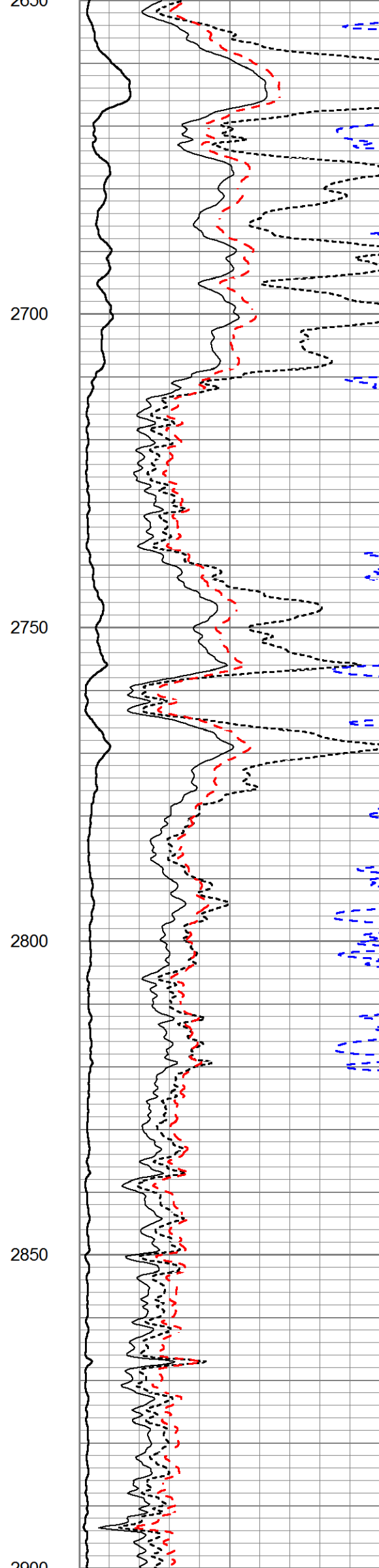
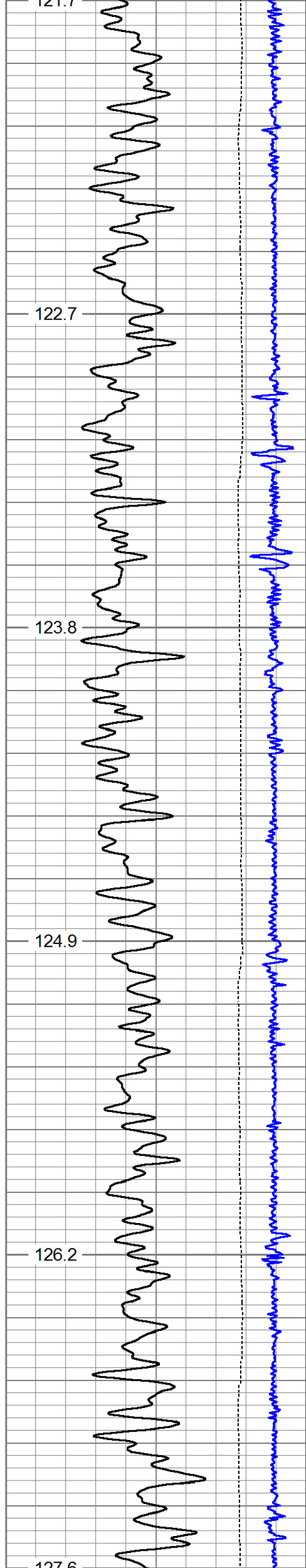


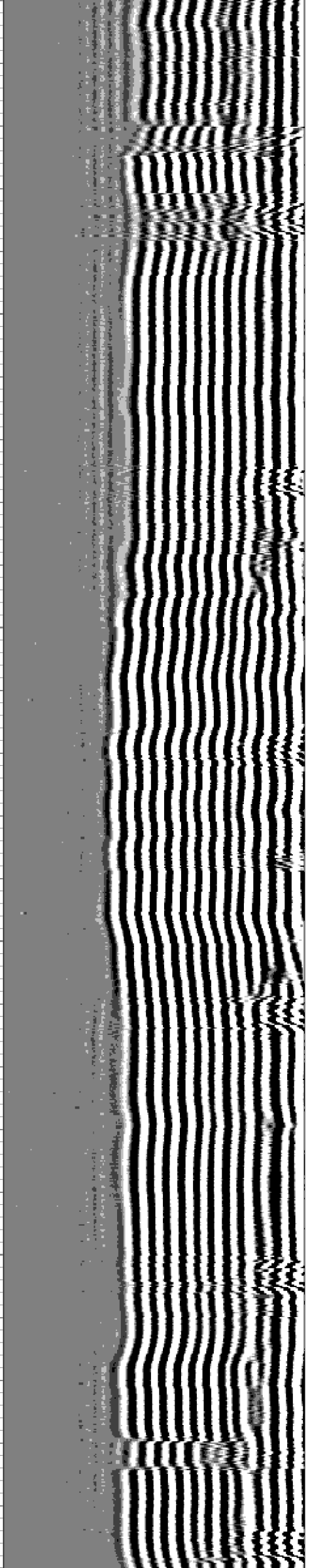
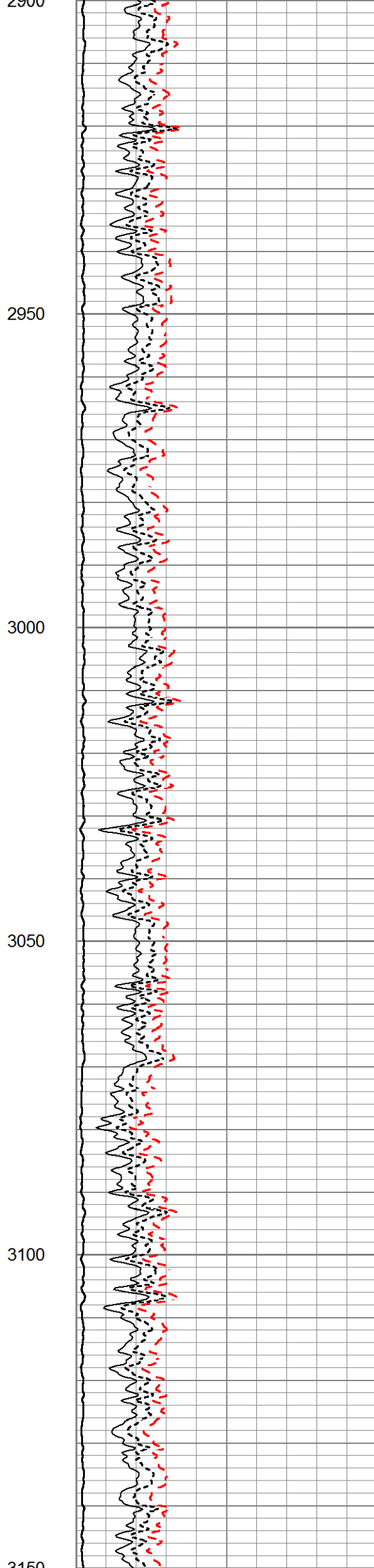
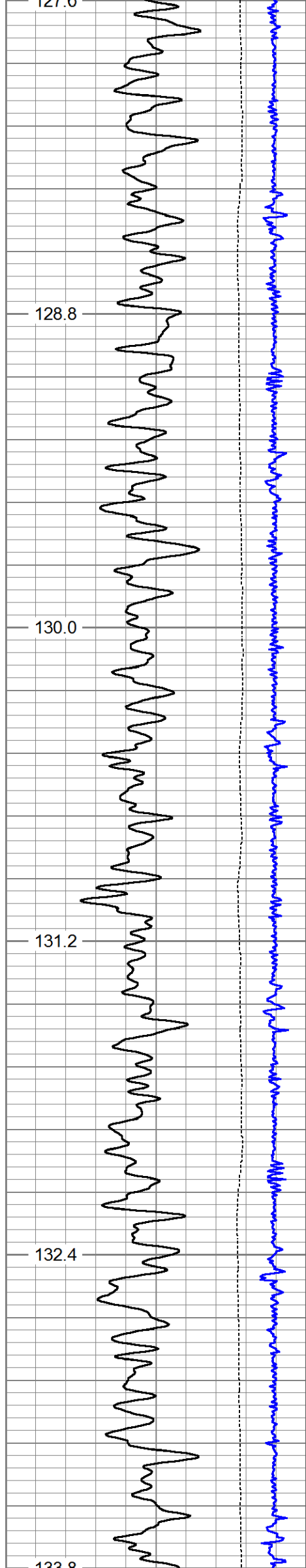


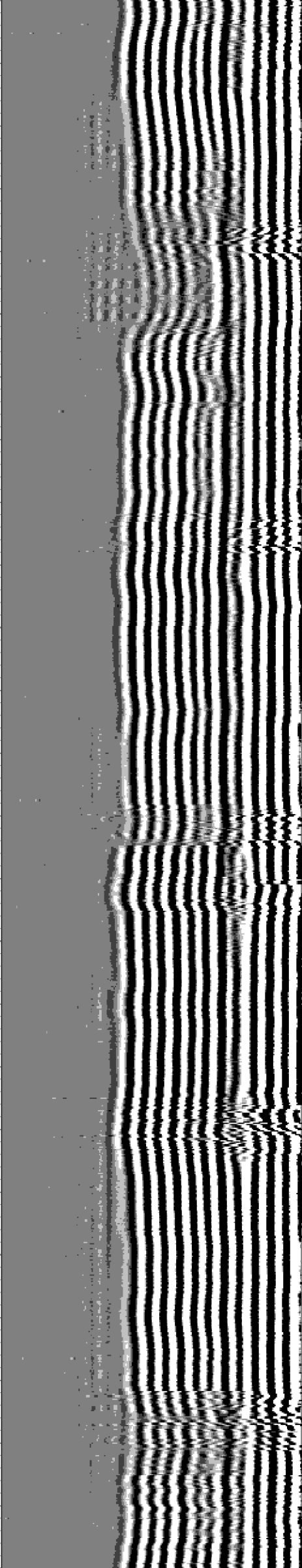
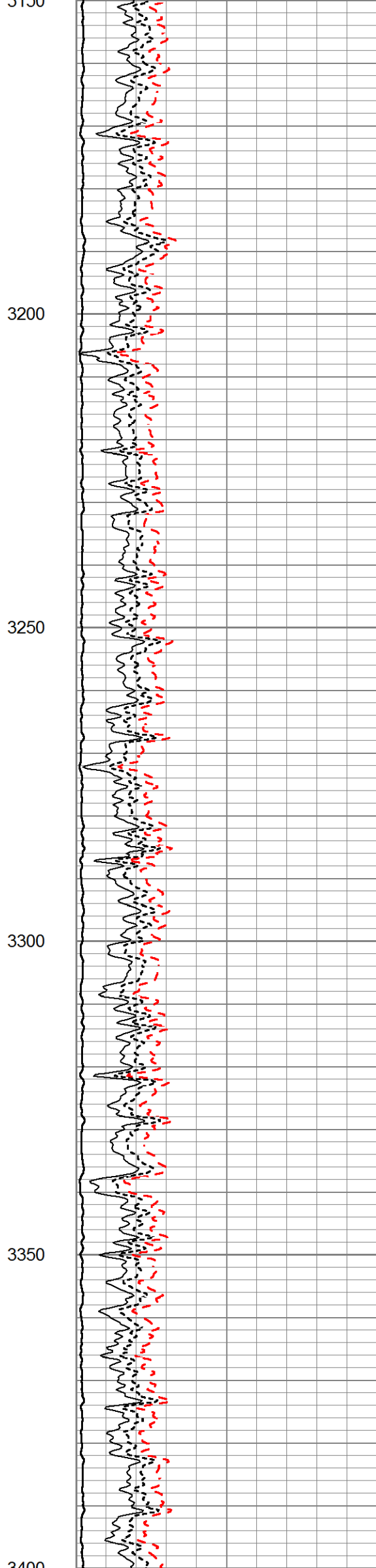
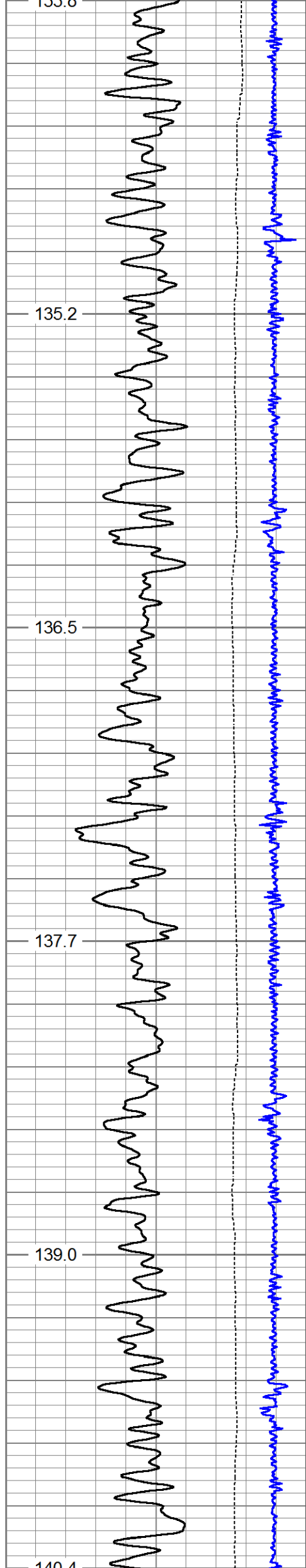


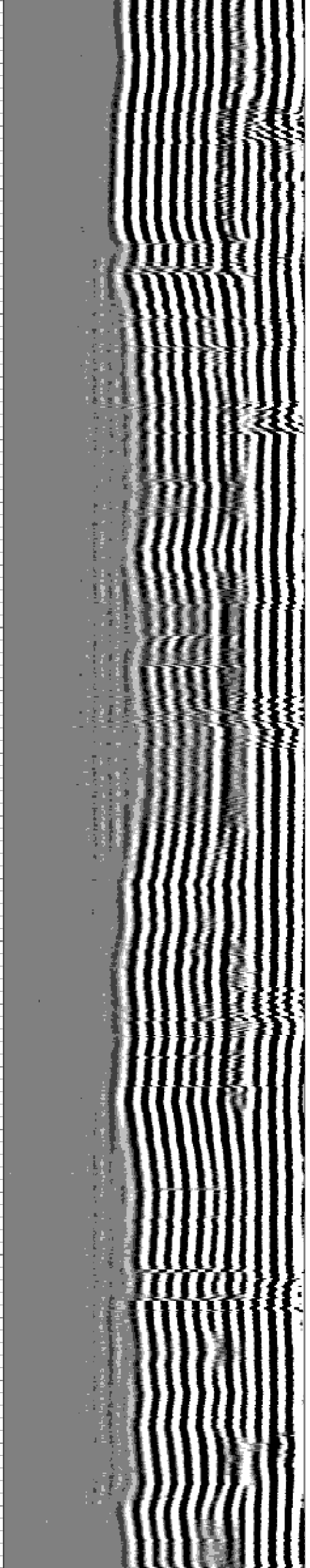
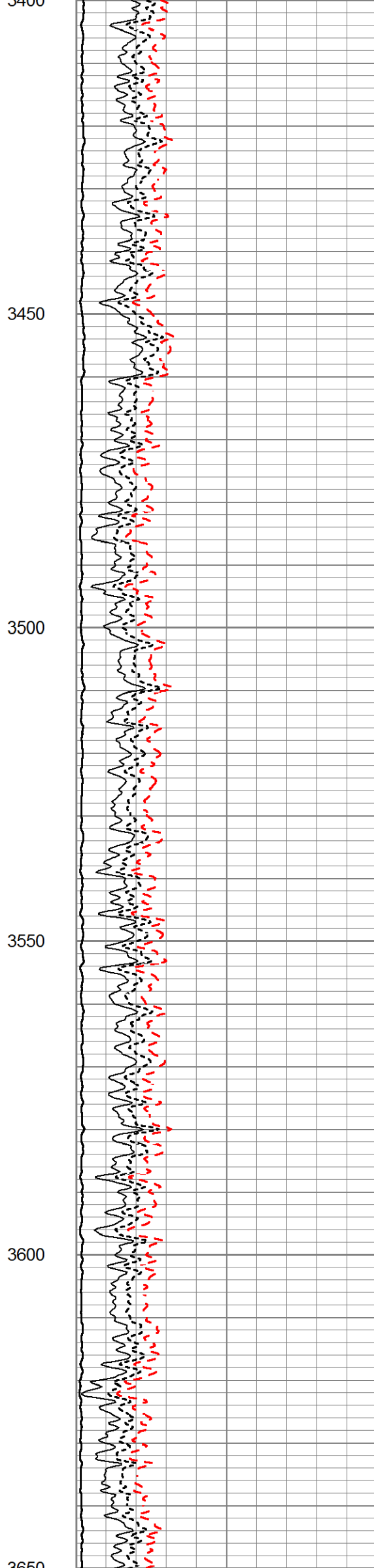
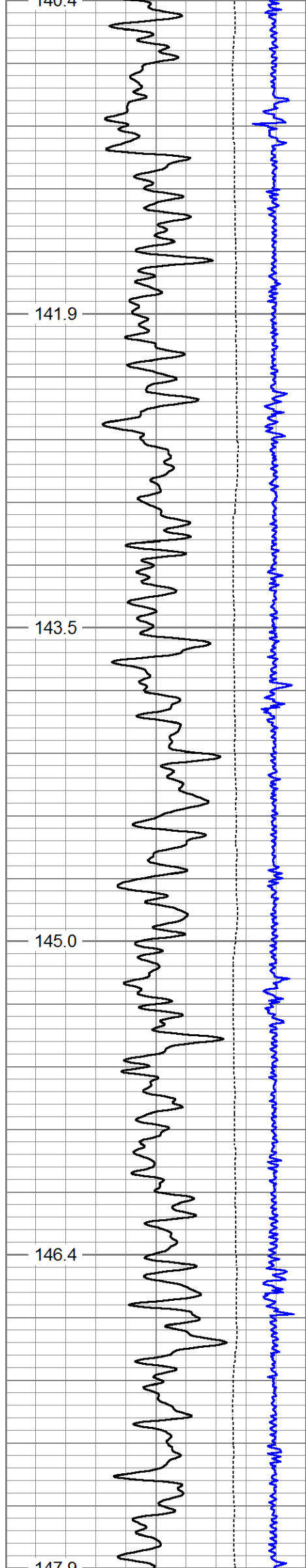


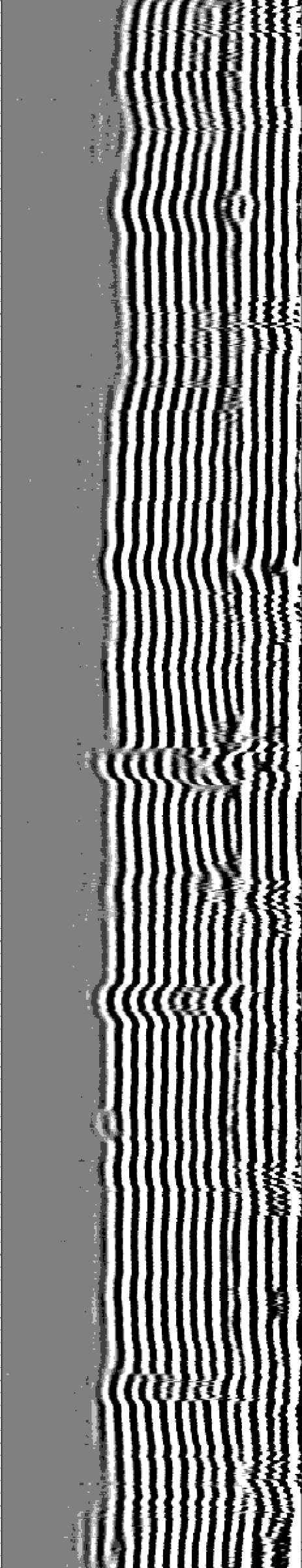
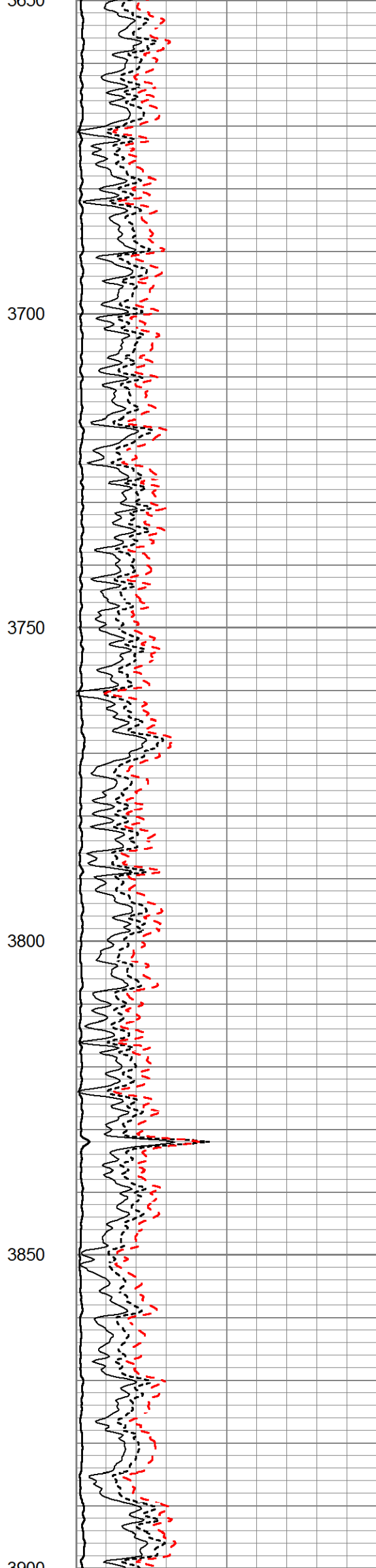
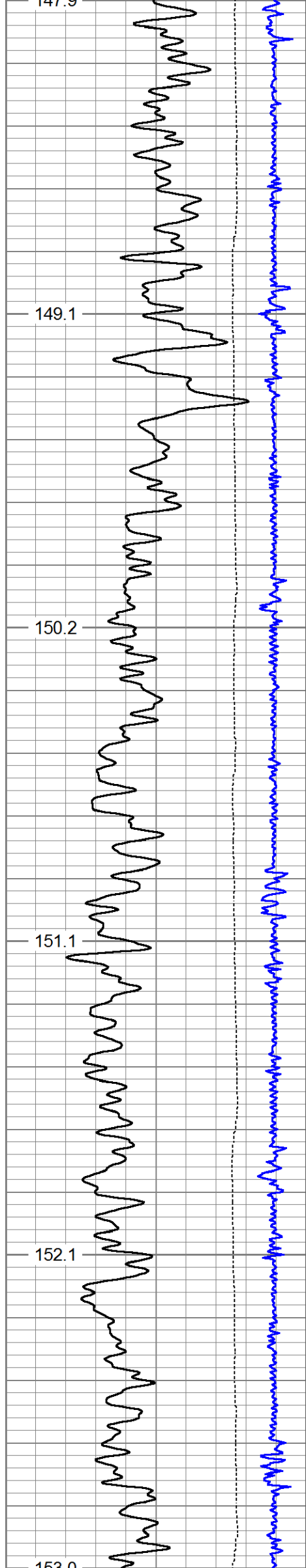


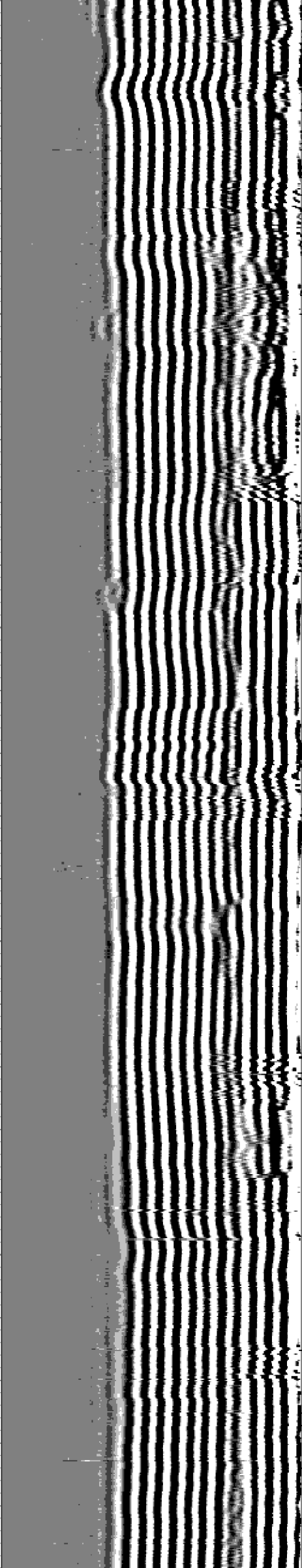
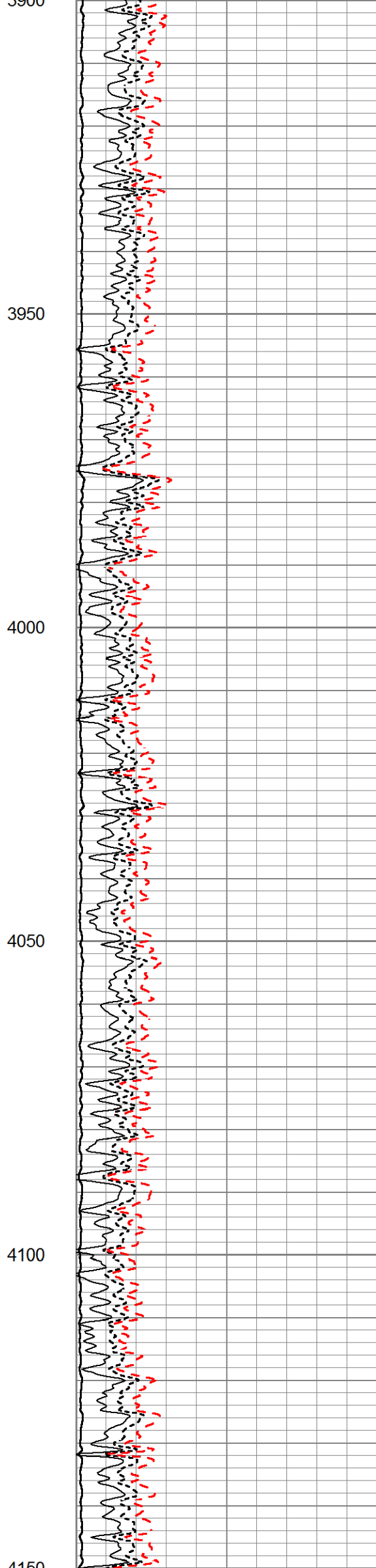
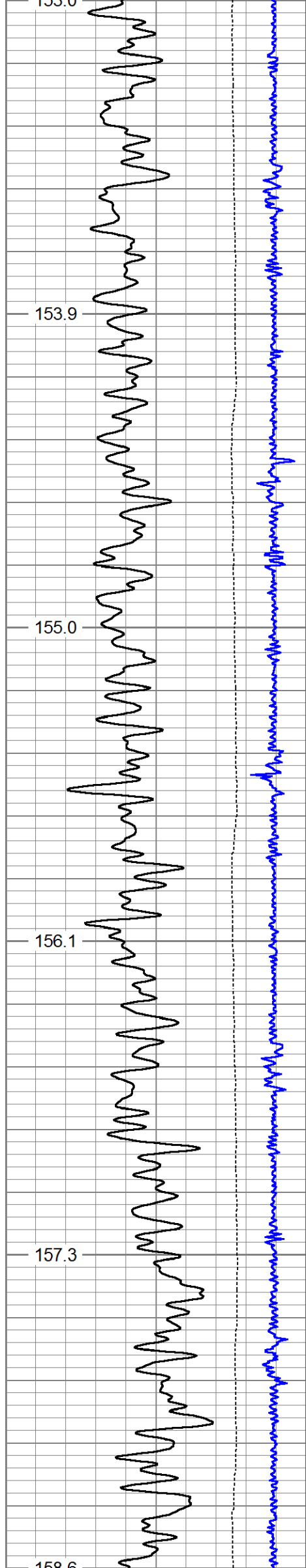


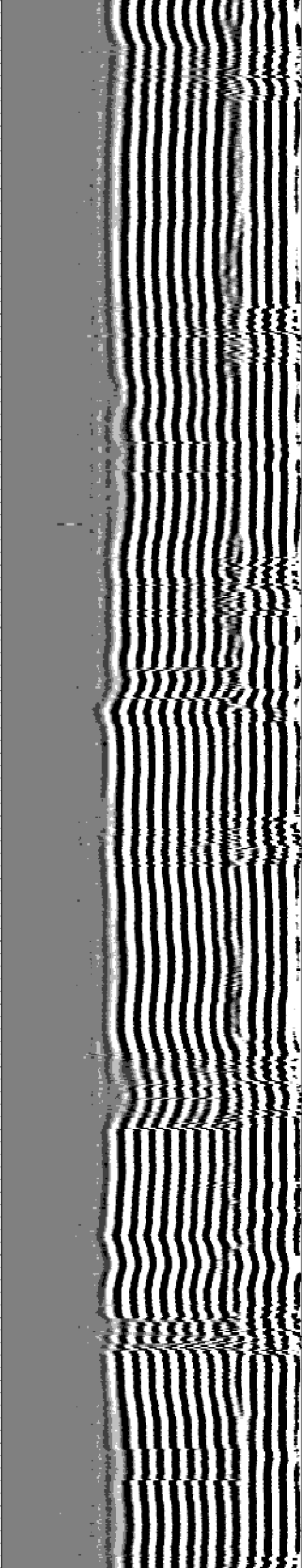
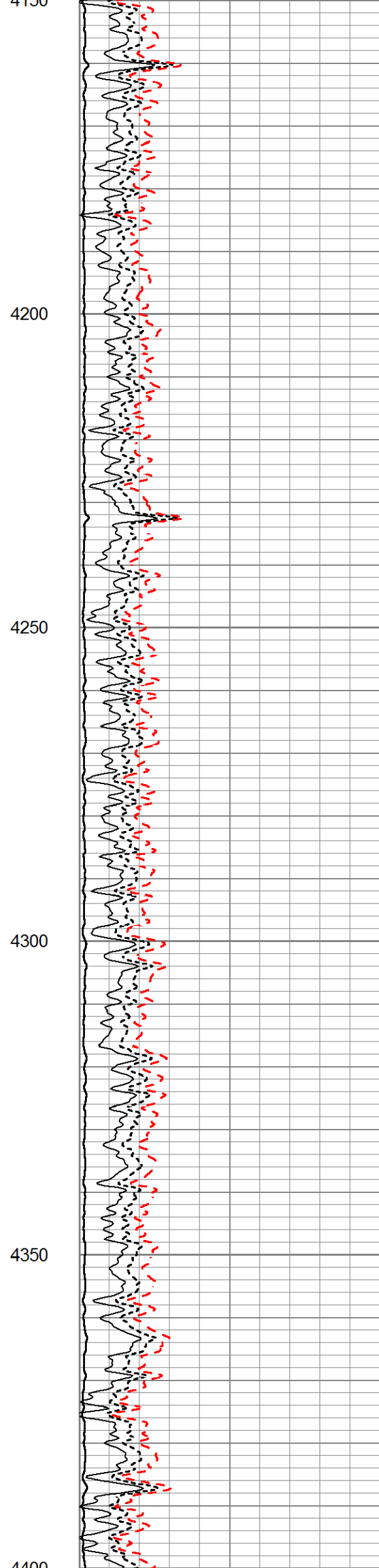
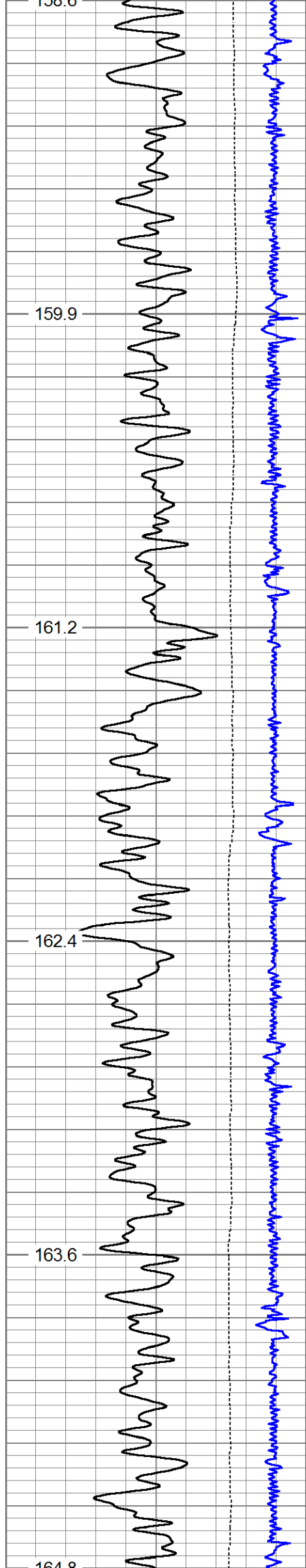


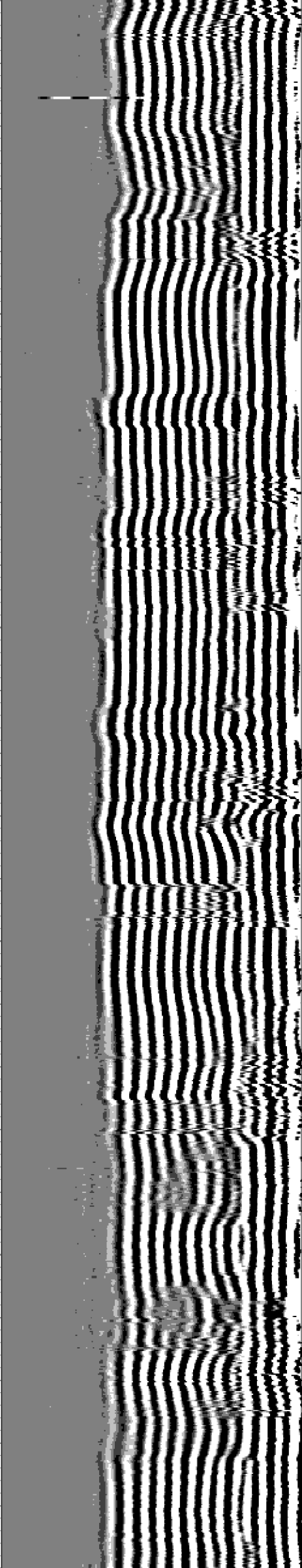
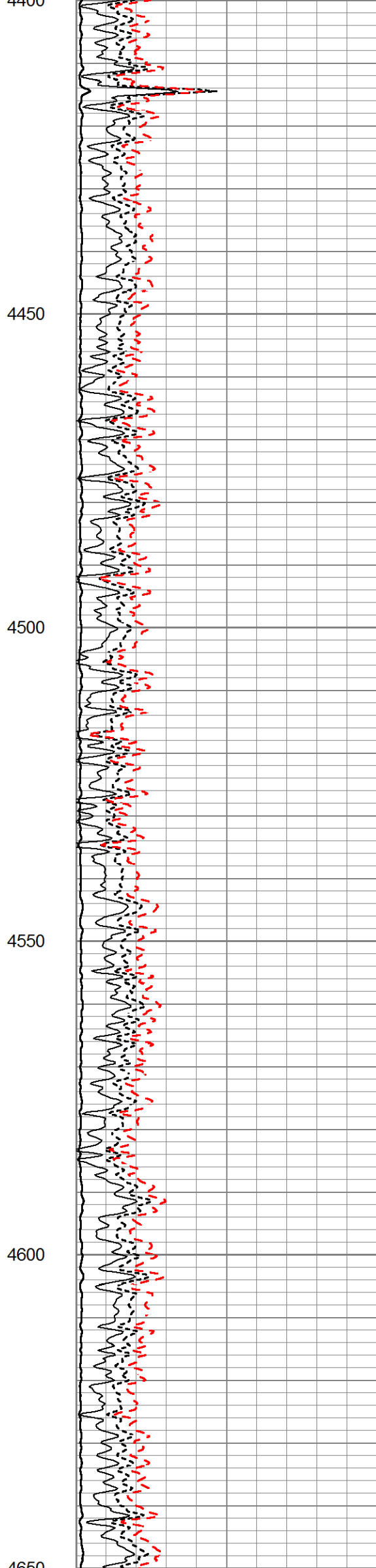
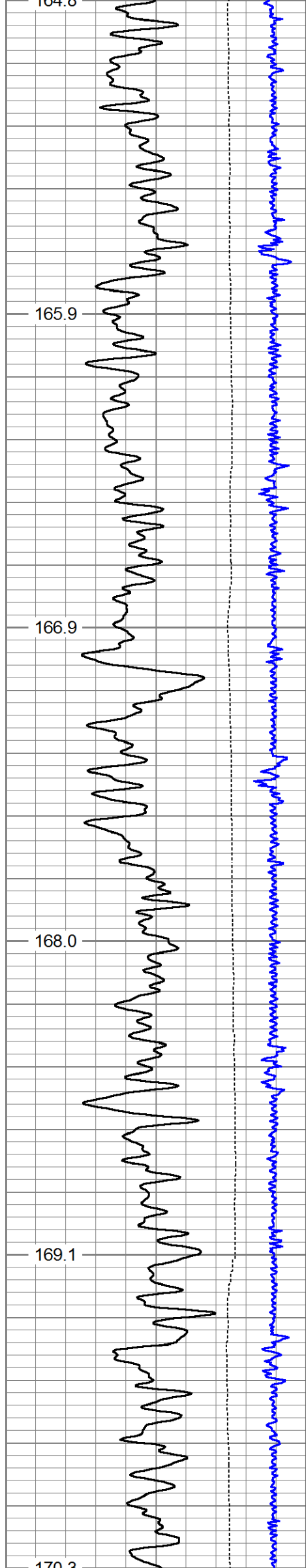


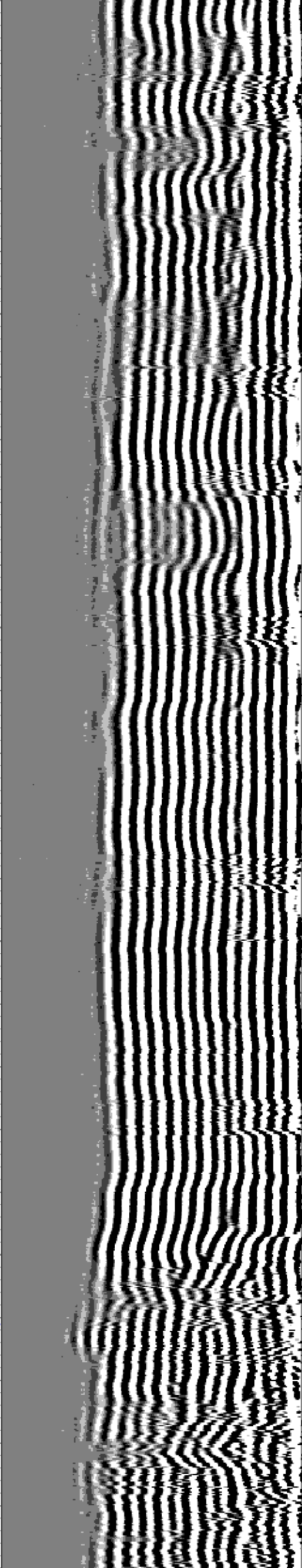
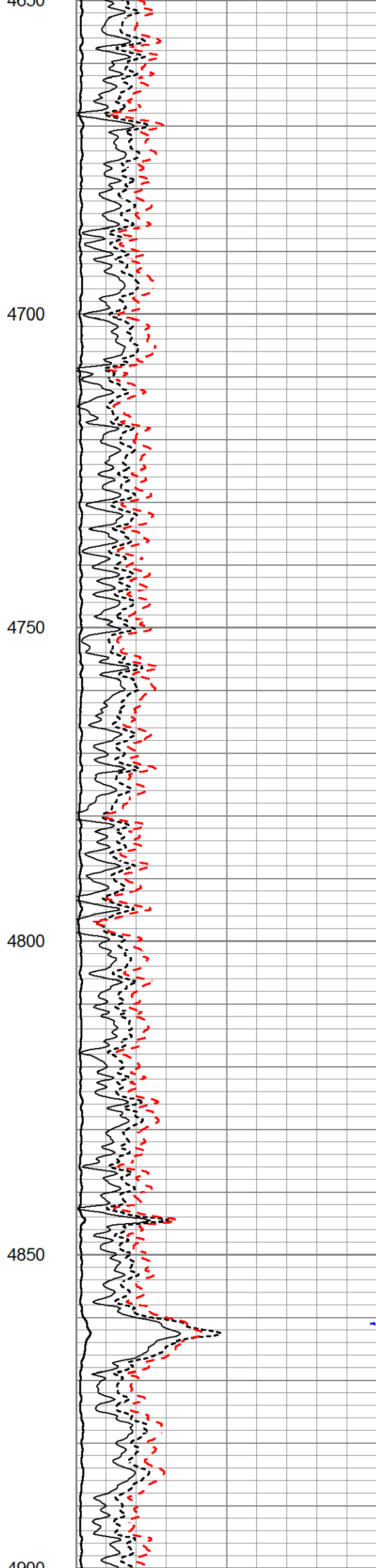
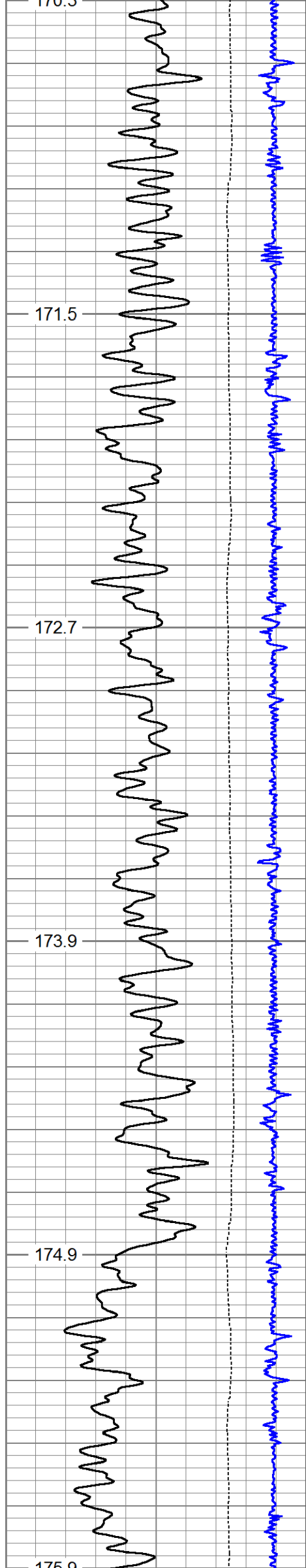


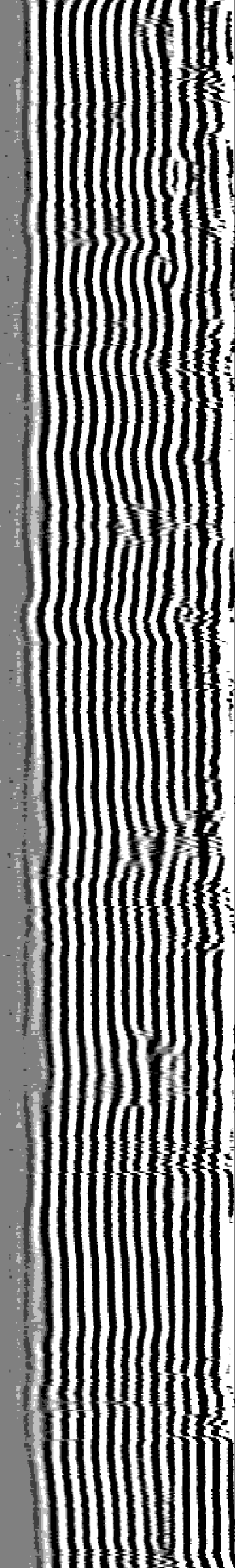
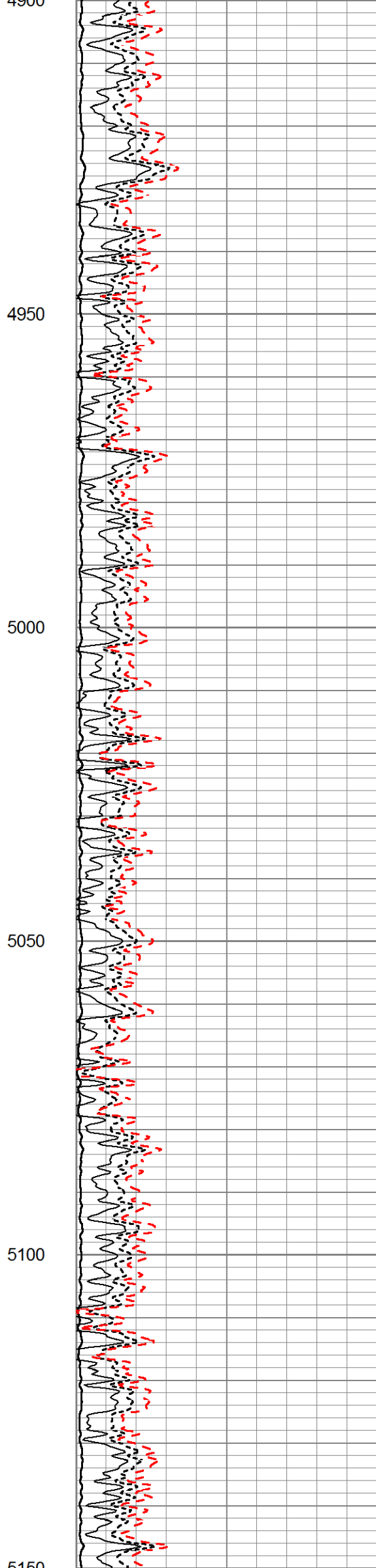
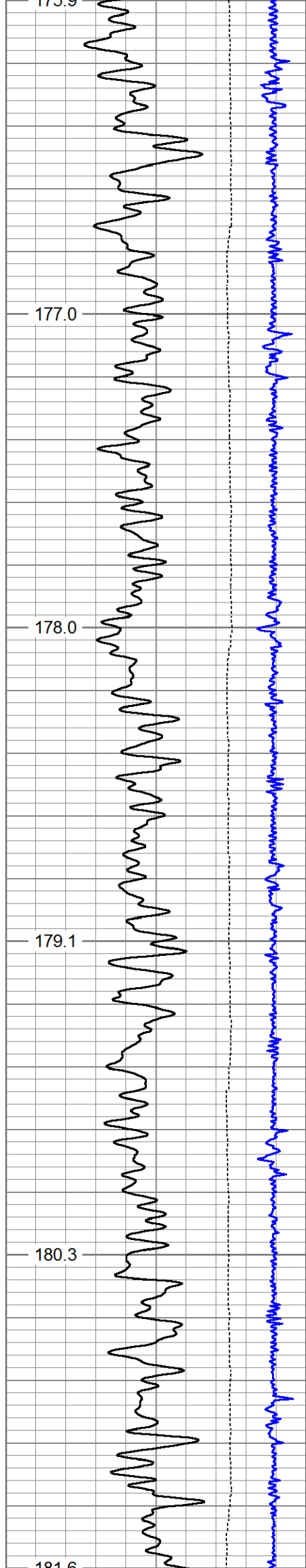


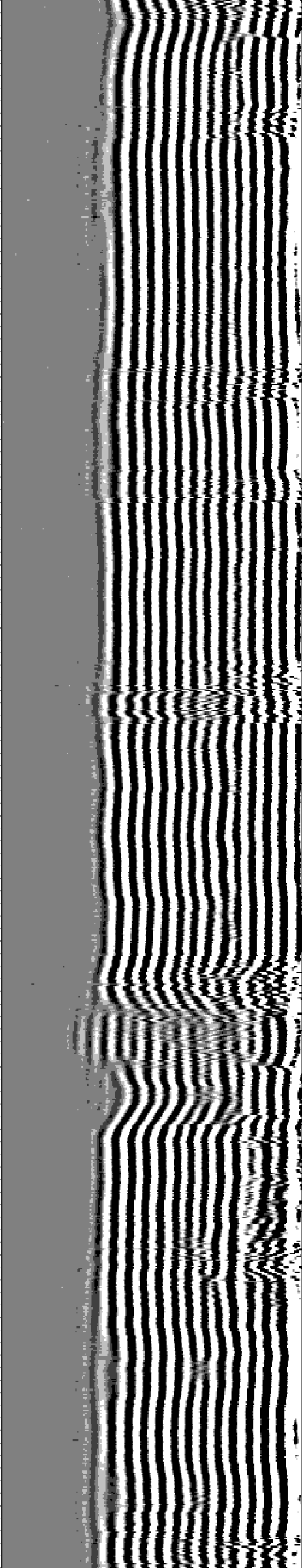
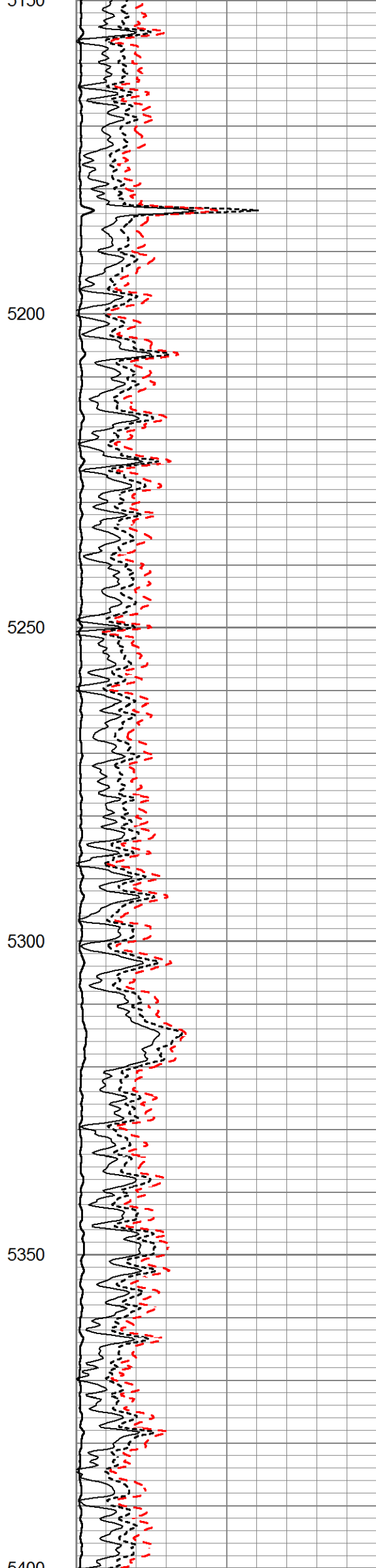
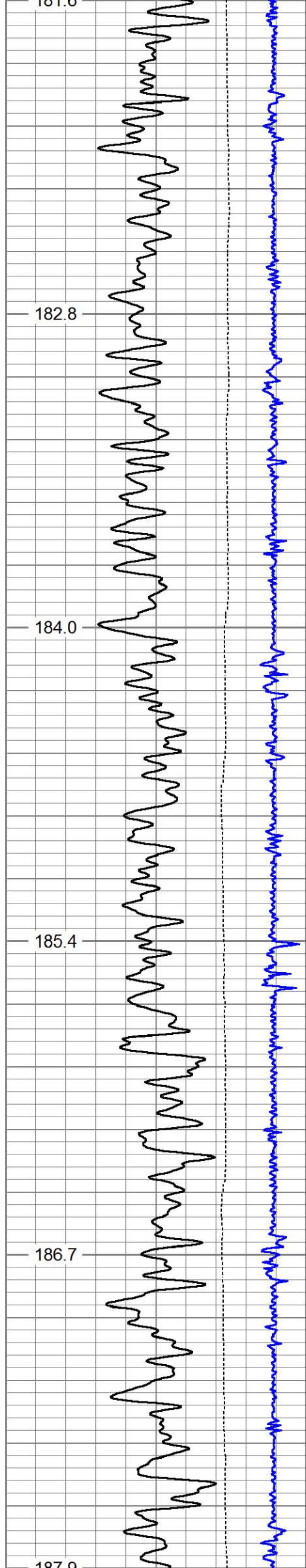


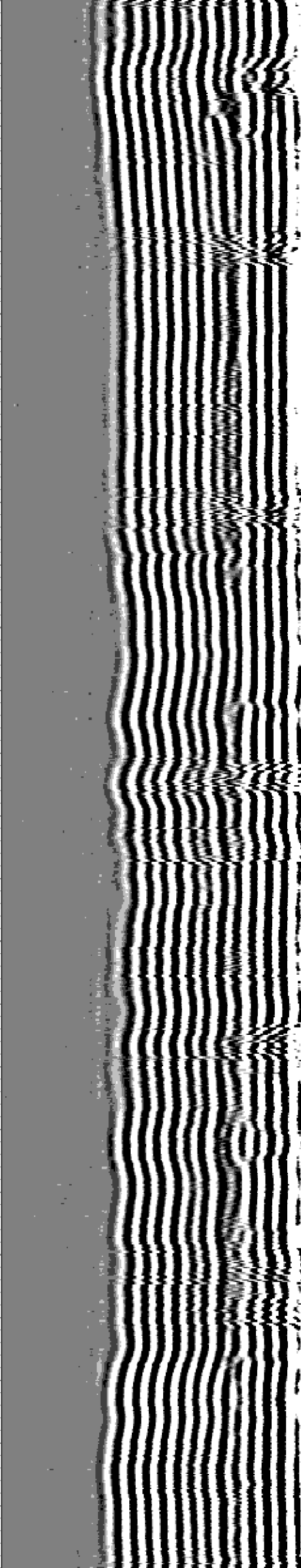
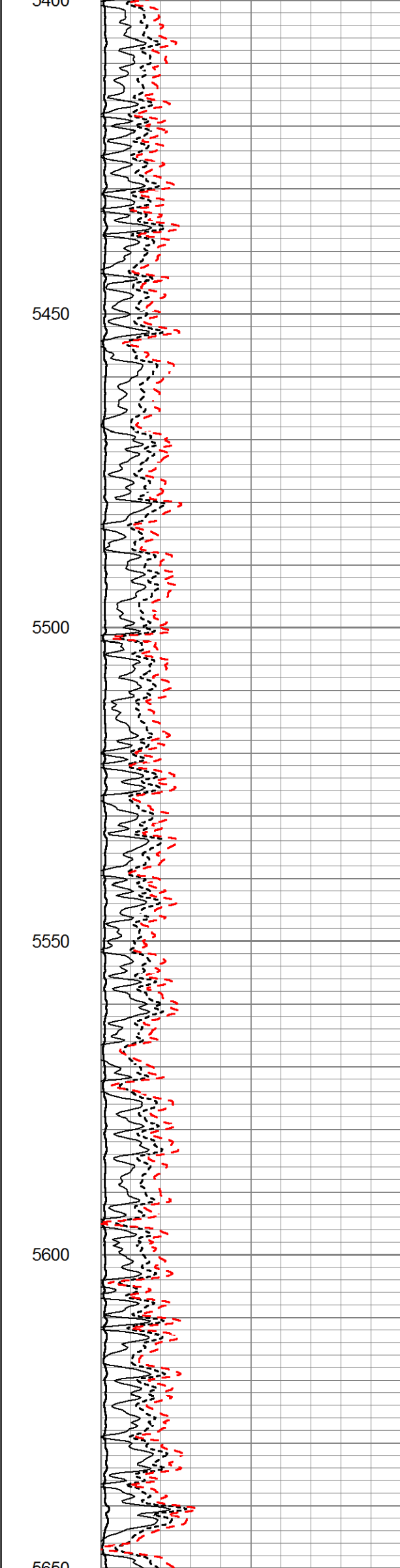
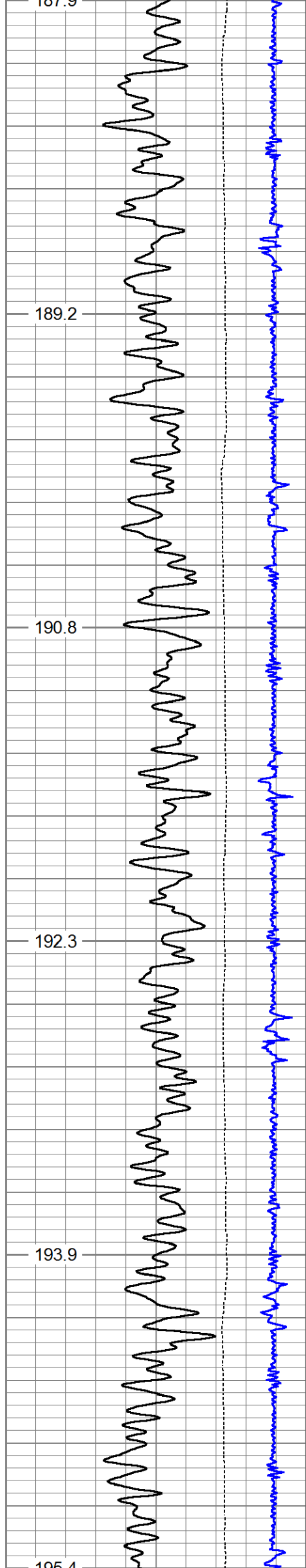


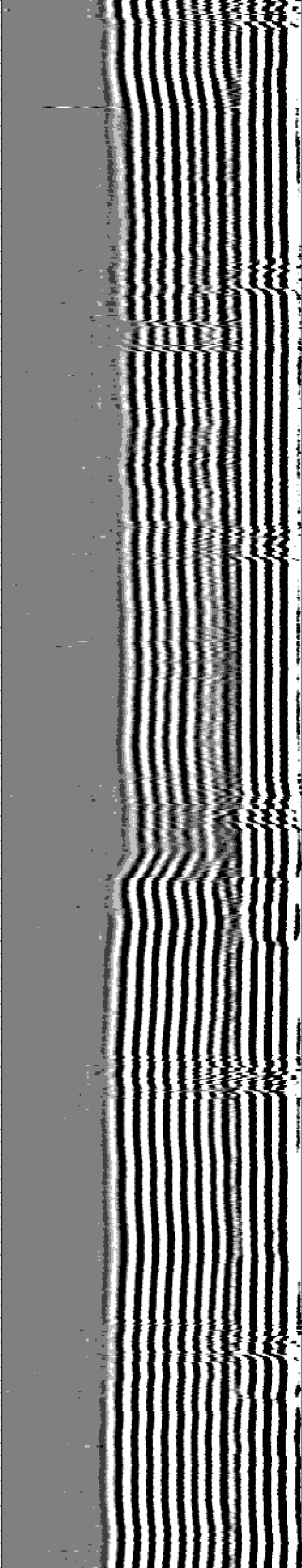
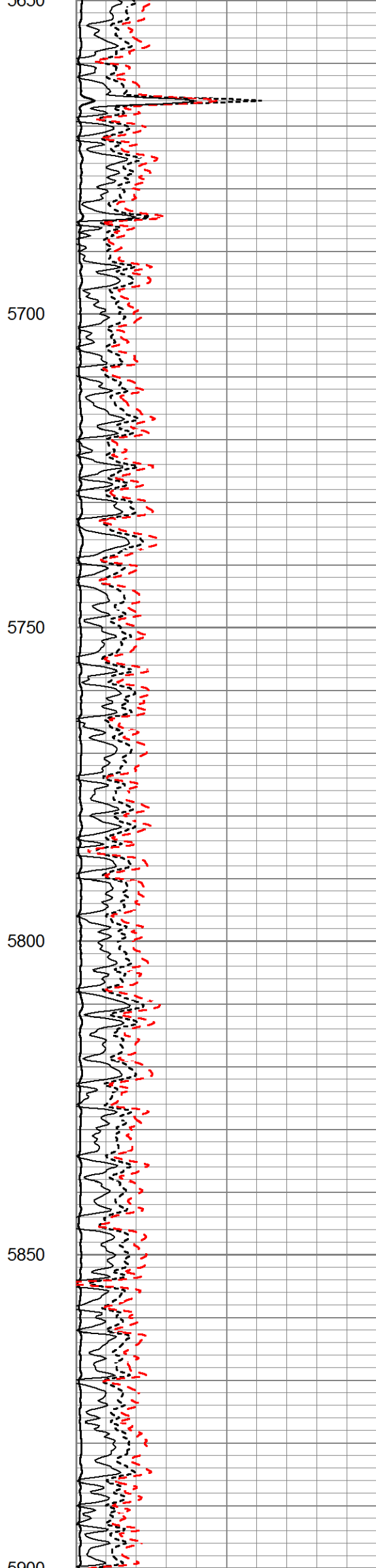
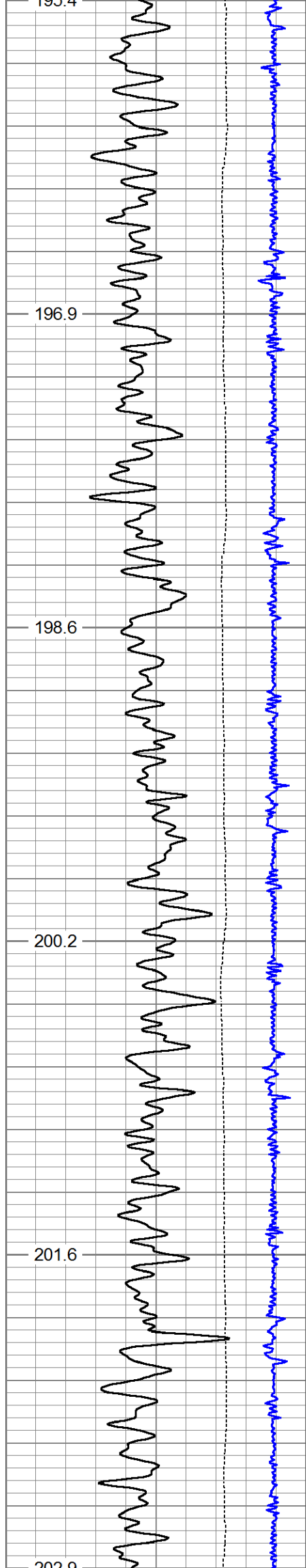


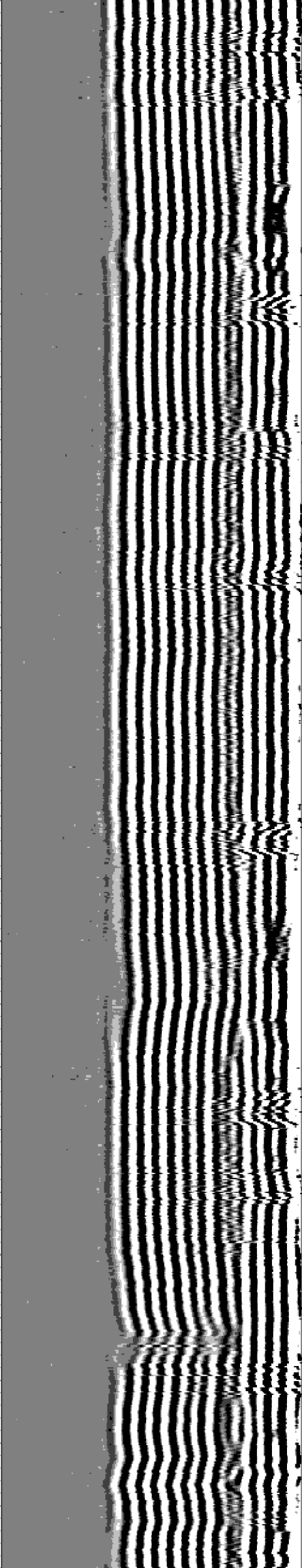
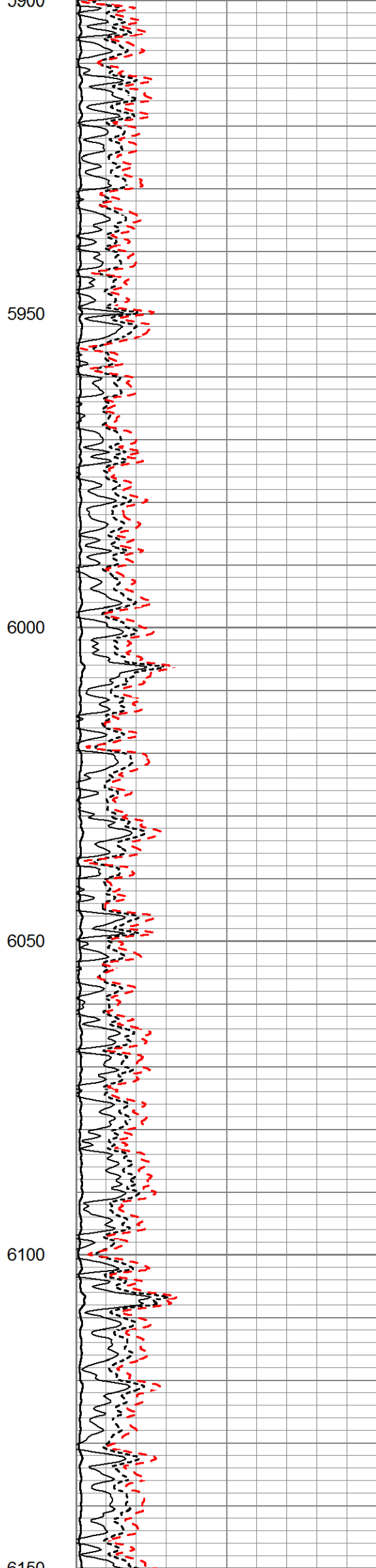
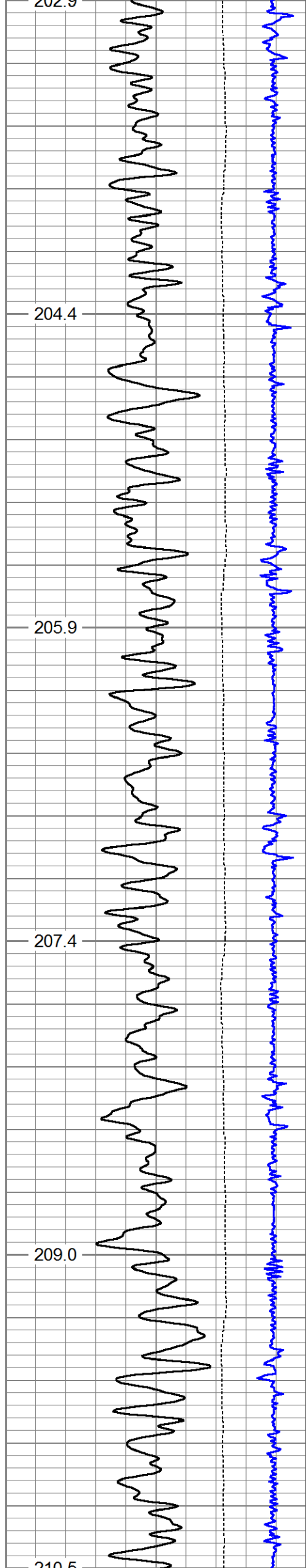


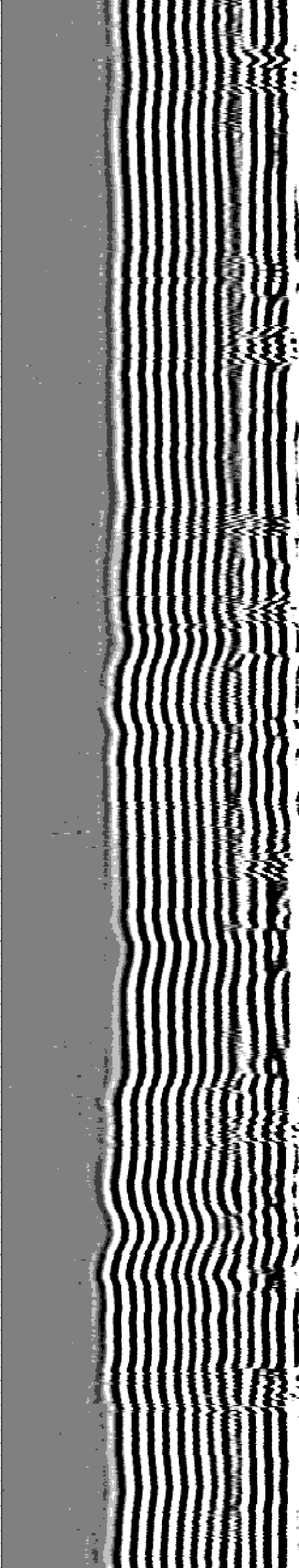
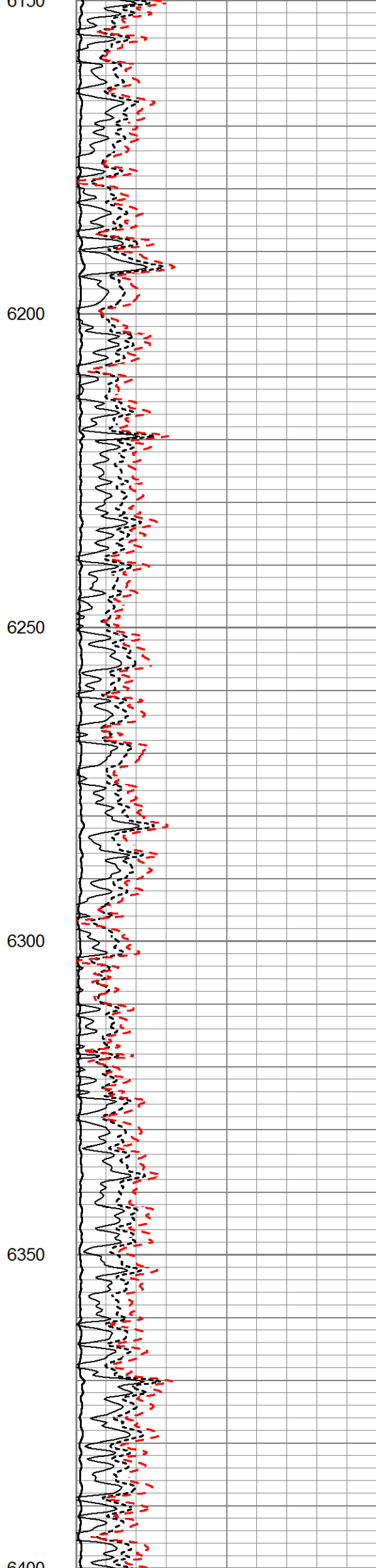
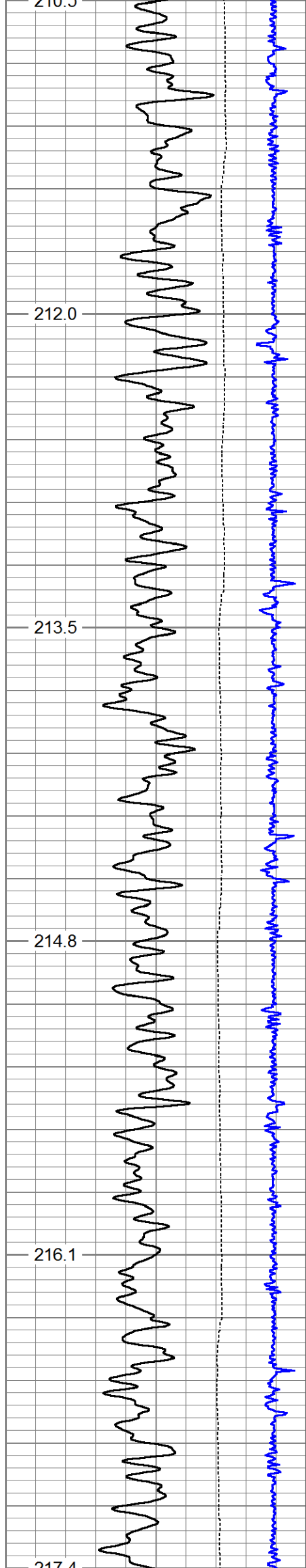


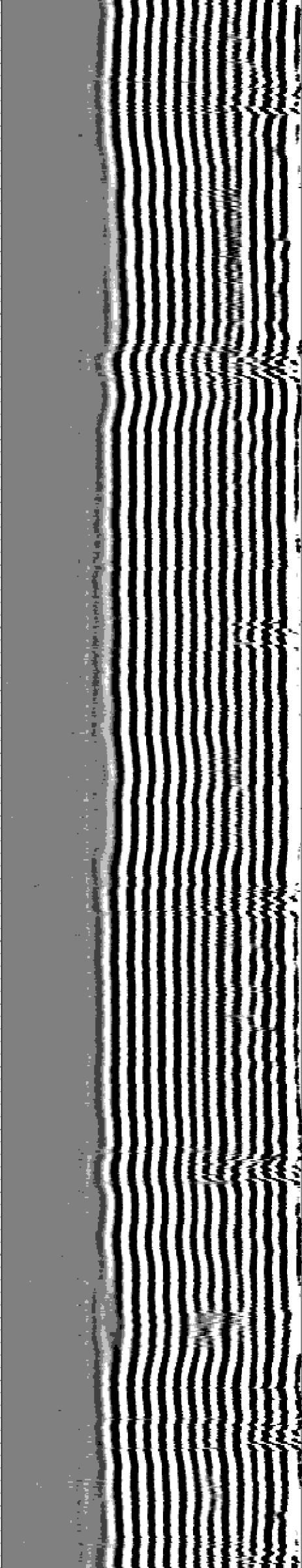
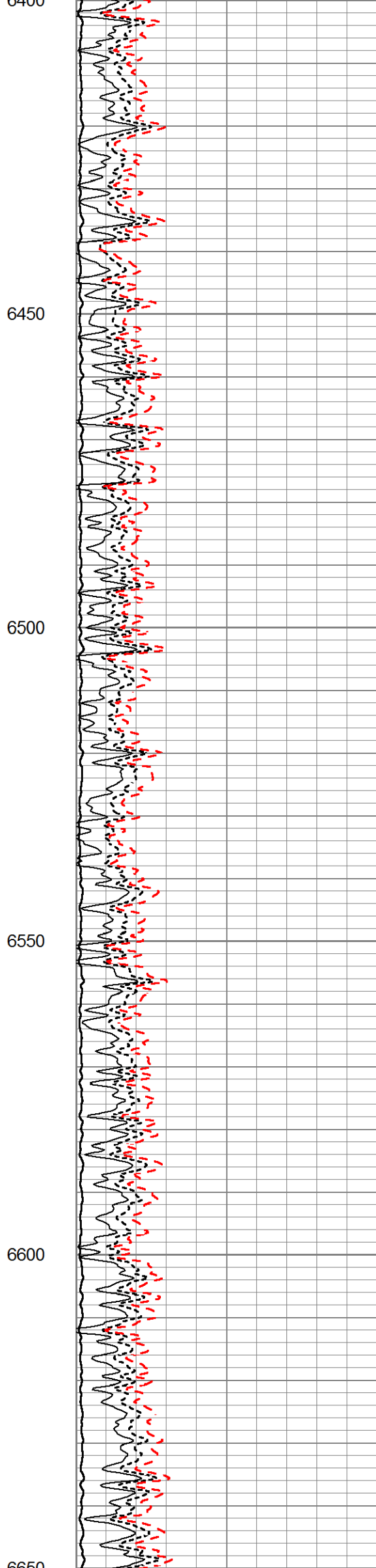
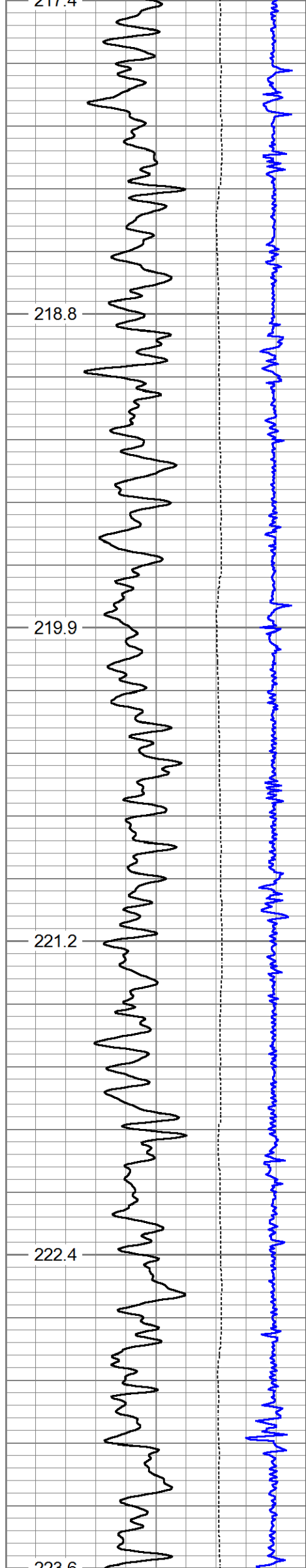


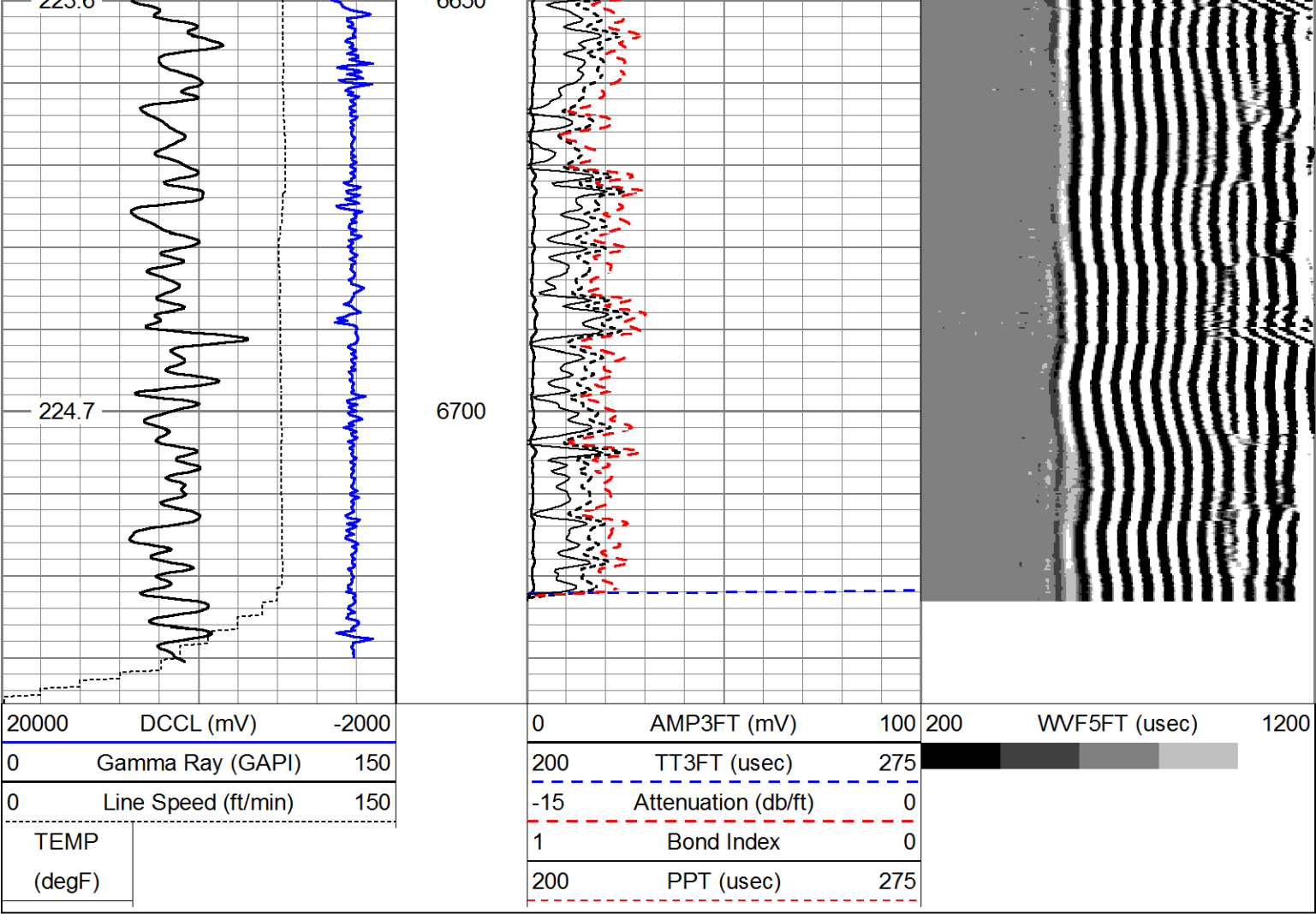










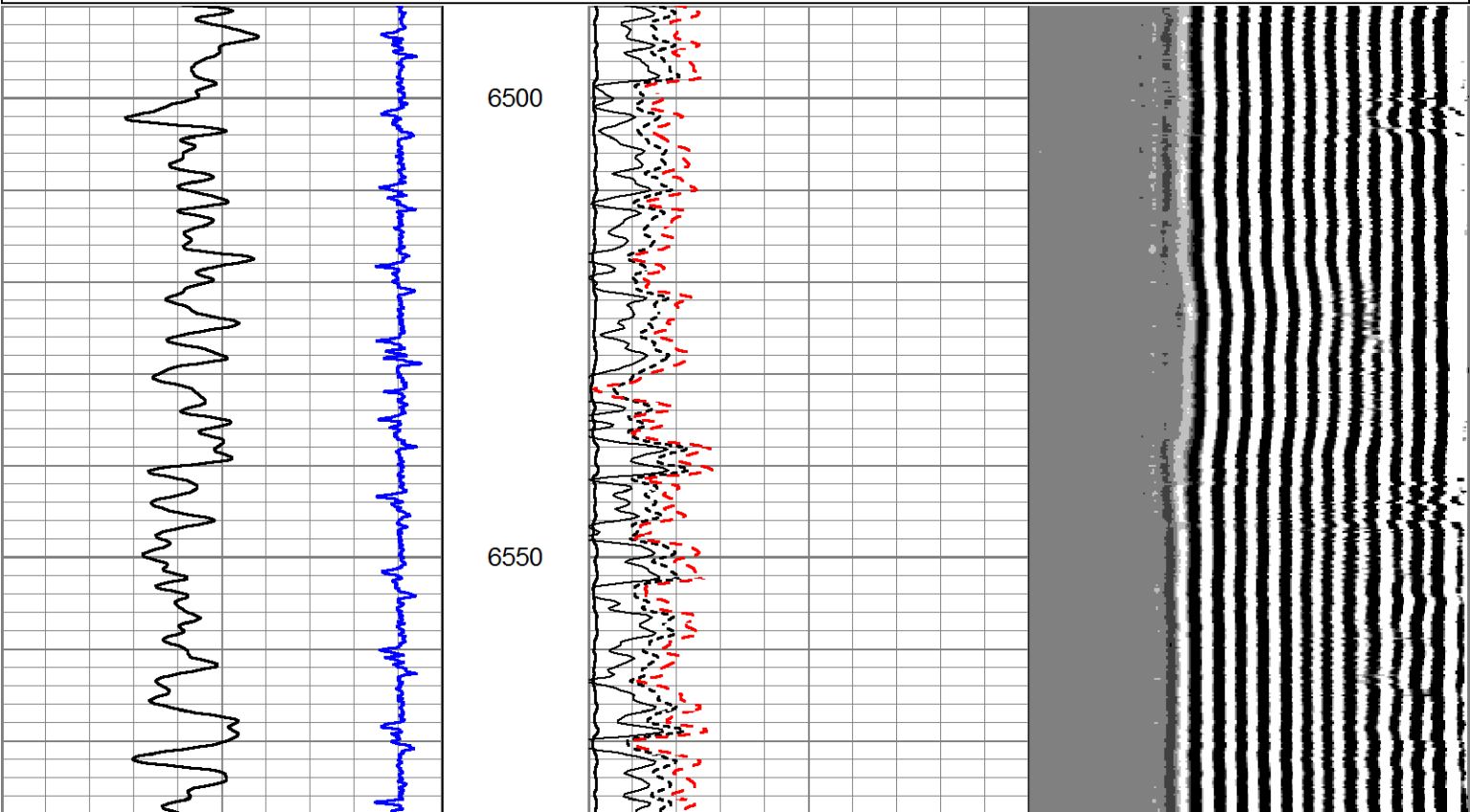


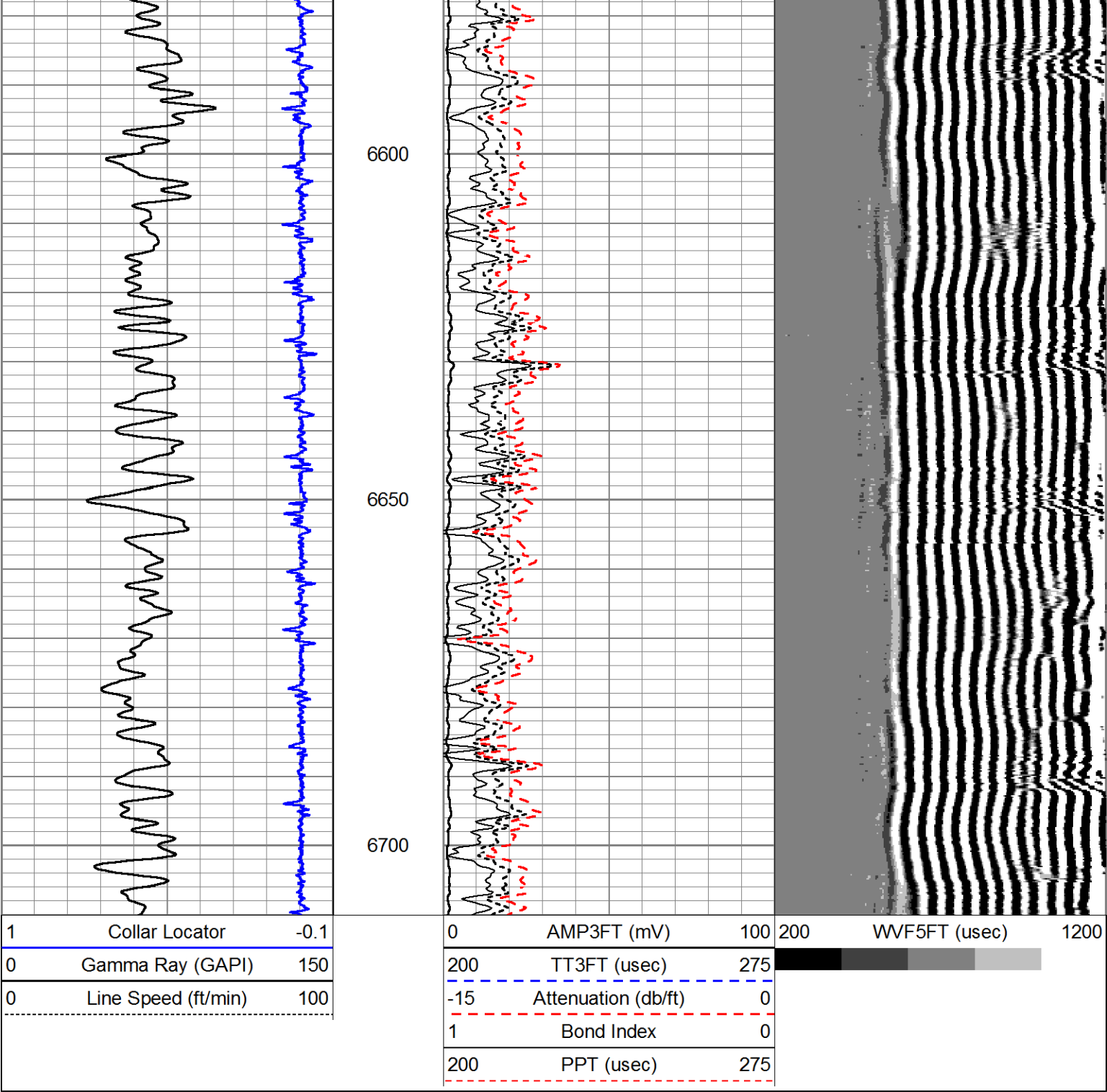
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Dataset Pathname	Bost/40C-8-L_CBL/ONE/REPEAT.2
Presentation Format	cbl_dr
Dataset Creation	Sun Jan 20 21:33:50 2019
Charted by	Depth in Feet scaled 1:240

1	Collar Locator	-0.1
0	Gamma Ray (GAPI)	150
0	Line Speed (ft/min)	100

0	AMP3FT (mV)	100
200	TT3FT (usec)	275
-15	Attenuation (db/ft)	0
1	Bond Index	0
200	PPT (usec)	275

200	WVF5FT (usec)	1200
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Log Variables

DatabaseC:\ProgramData\Warrior\Data\src_bost_farms_40c-8-l_cbl.db

Dataset Bost/40C-8-L_CBL/ONE/MAIN.1/_vars_

Top - Bottom

BHTEMP_Src	BITSIZE	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	in	degF	in	in	lb/ft	mV	mV
	7.875	100	5.5	0	20	72	1
MINATTN	MudWgt	PERFS	PPT	SRFTEMP	TDEPTH	USERFTT	ZREF
db/ft	lb/gal		usec	degF	ft	usec/ft	MRayl
0.8	9.5	0	0	0	0	0	1.7

Calibration Report	
Database File	src_bost_farms_40c-8-l_cbl.db
Dataset Pathname	Bost/40C-8-L_CBL/ONE/MAIN.1
Dataset Creation	Sun Jan 20 20:52:49 2019
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

Serial Number:	275	
Tool Model:	Probe	
Performed:	Thu Aug 07 08:00:19 2008	
Calibrator Value:	100.0	GAPI
Background Reading:	35.0	cps
Calibrator Reading:	160.0	cps
Sensitivity:	1.0000	GAPI/cps



Segmented Cement Bond Log Calibration Report
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Serial Number:	275	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	410.033	ft

Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.036	2.006	1.000	72.000	36.040	-0.284
CAL						
5'	0.021	2.020	1.000	72.000	35.518	0.267
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 Jan 17 20:27:57 2019:			
	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)
			STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.28	1.44	5.25
			WT-2.0" 2.0" WEIGHT BAR	7.00	2.00	120.00
			CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
			CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
			CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
WVF3FT	13.27		CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5FT	12.27		CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
DCCL	5.51		GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
CCL	5.51		TEMP-1.375TEMP (0001) Temperature Tool	1.88	1.38	30.00
GR	2.77					
TEMP	0.58					

Dataset: src_bost_farms_40c-8-l_cbl.db: Bost/40C-8-L_CBL/ONE/MAIN.1

Total length: 29.16 ft

Total weight: 285.25 lb

O.D.: 2.75 in

Company	SRC ENERGY		
Well	BOST FARM 40C-8-L		
Field	WATTENBERG		
County	WELD	State	CO
HALLIBURTON		CEMENT BOND LOG	