

# CEMENT BOND LOG

Service Ticket No.	905408554	API No.	0512347701	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	

ONE	6485'	SURFACE	2500	80			
	GAMMA		AMP				
Pass	Scale		Scale		Scale		Scale
No.	L	R	L	R	L	R	L
	0	150	0	100			
DIRECTIONAL INFORMATION							
Maximum Deviation			deg. @		KOP		

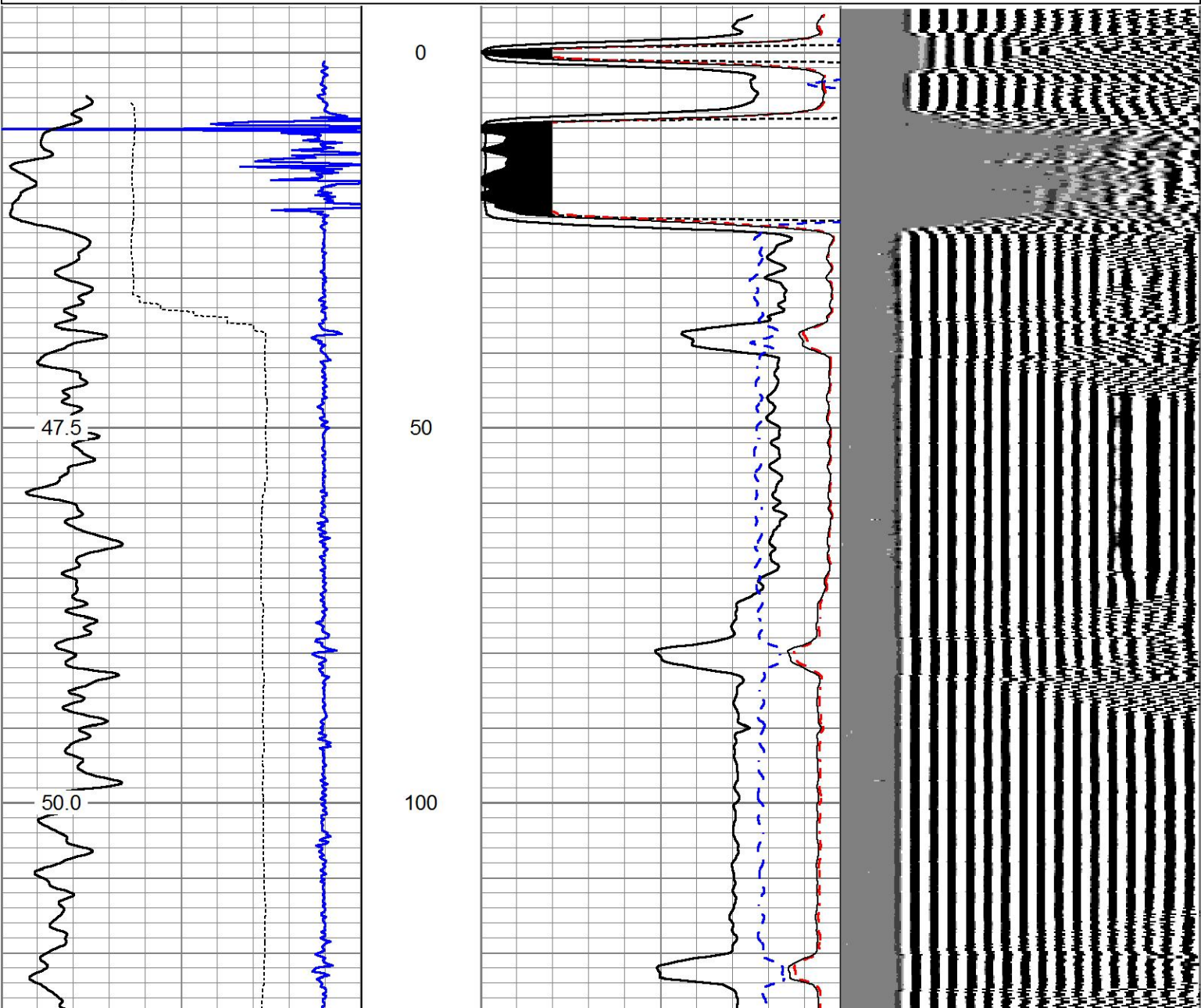
HALLIBURTON

MAIN PASS

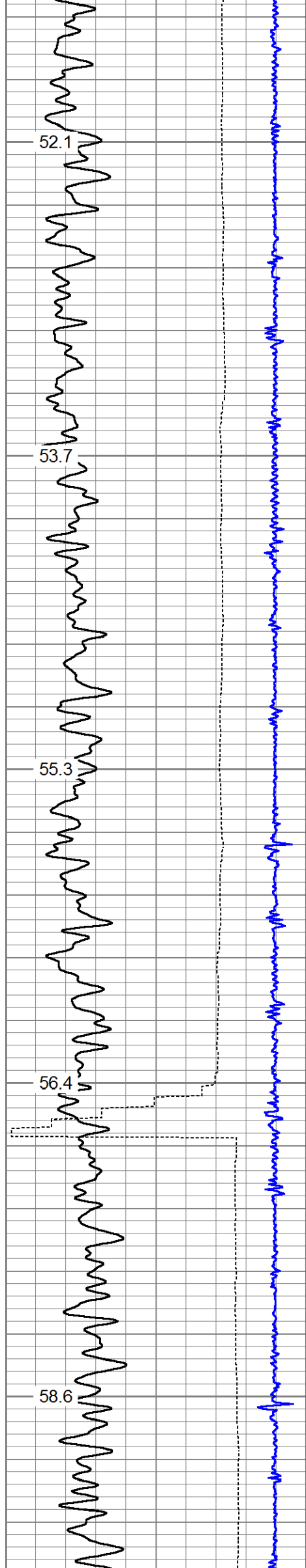
5"=100

Database File	src_bost_farms_40n-8b-l_cbl.db
Dataset Pathname	Bost/40N-8B-L_CBL/ONE/MAIN
Presentation Format	cbl_dr
Dataset Creation	Sun Jan 20 21:48:38 2019
Charted by	Depth in Feet scaled 1:240

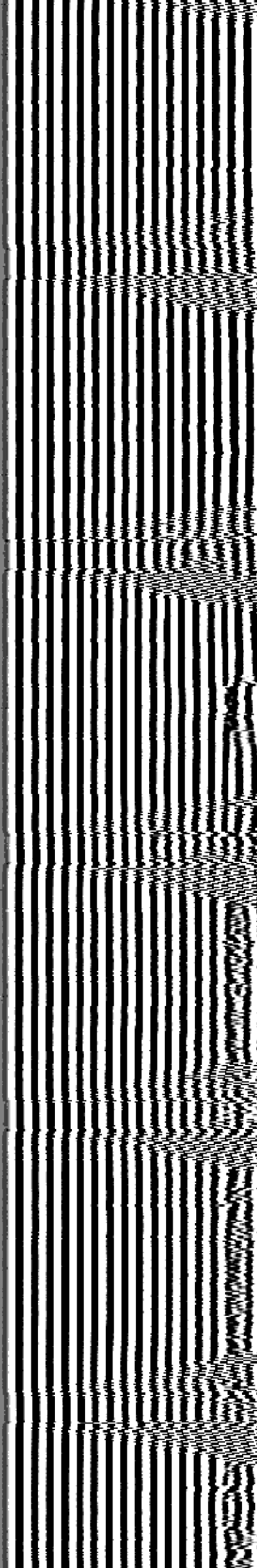
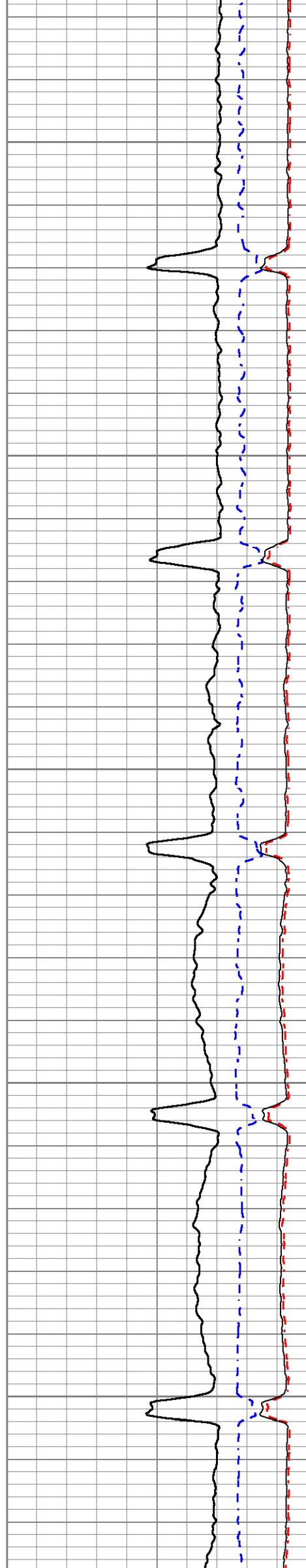
20000	DCCL (mV)	-2000	0	AMP3FT (mV)	100	200	WVF5FT (usec)	1200
0	Gamma Ray (GAPI)	150	200	TT3FT (usec)	275			
0	Line Speed (ft/min)	150	-15	Attenuation (db/ft)	0			
TEMP			1	Bond Index	0			
(degF)			200	PPT (usec)	275			

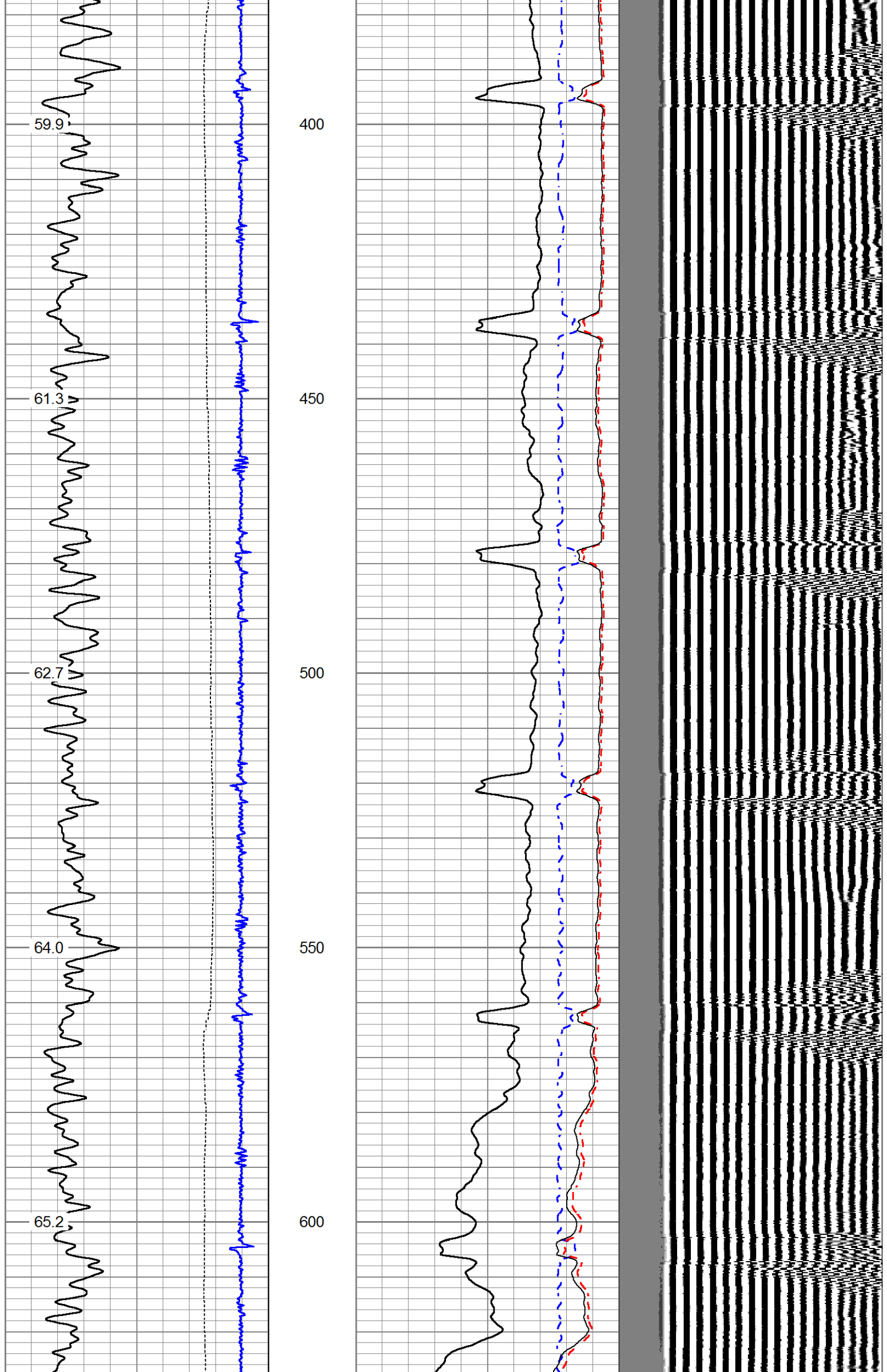


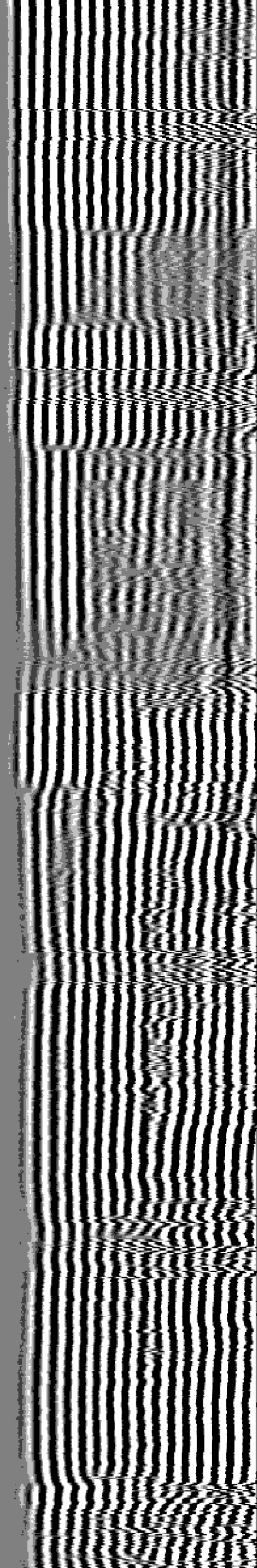
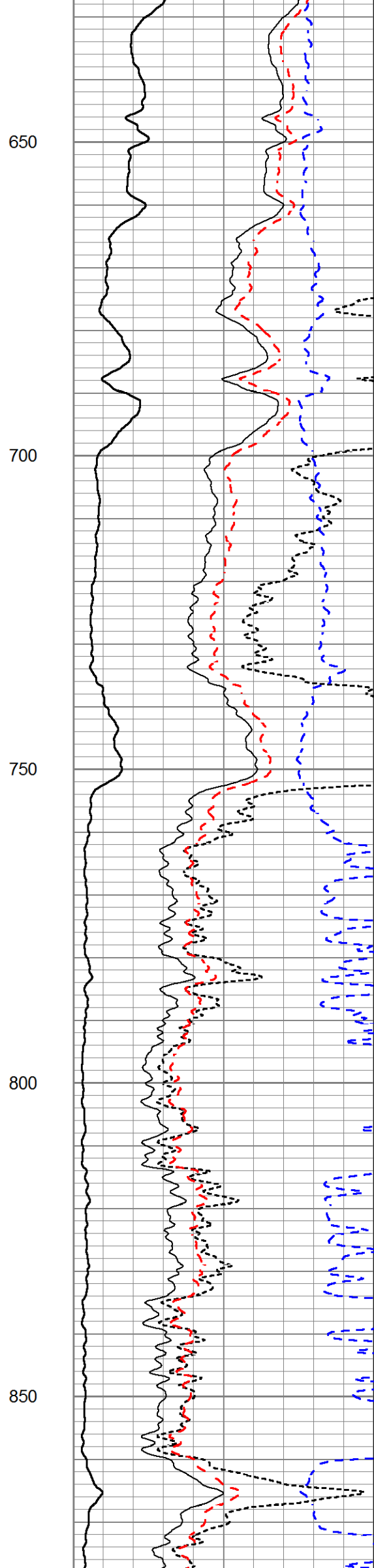
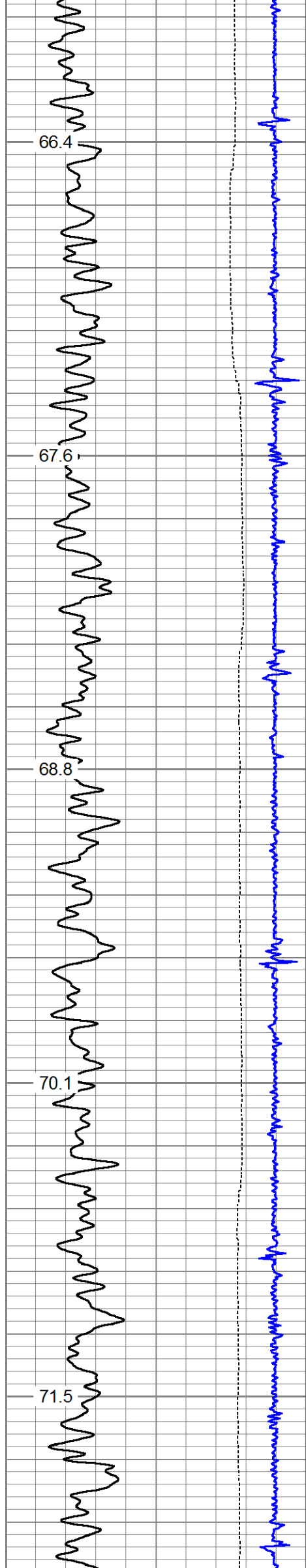


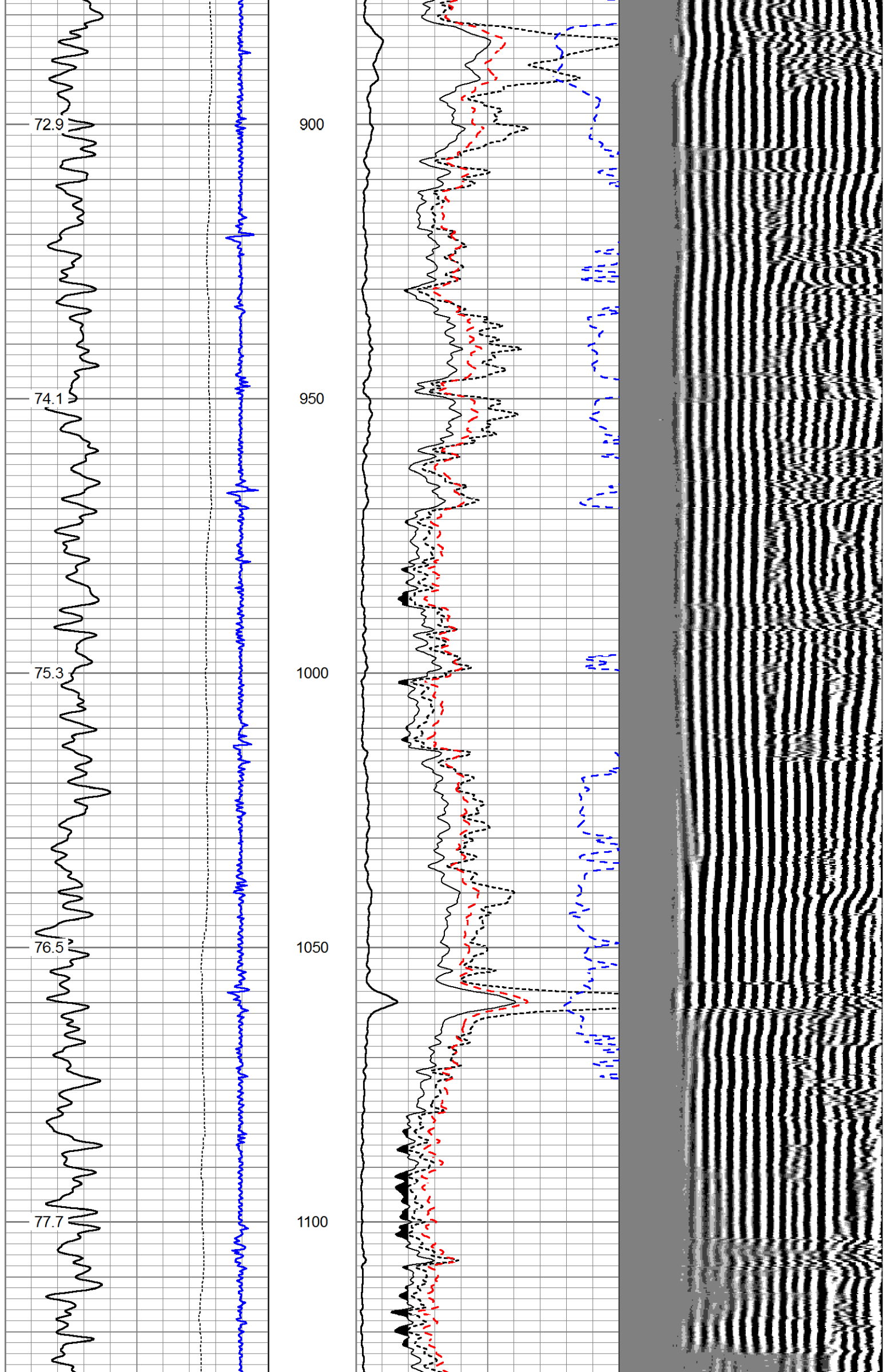


150  
200  
250  
300  
350

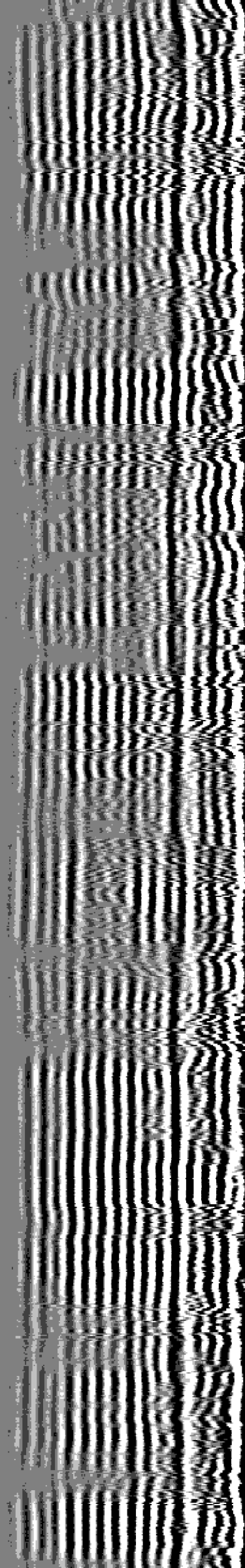
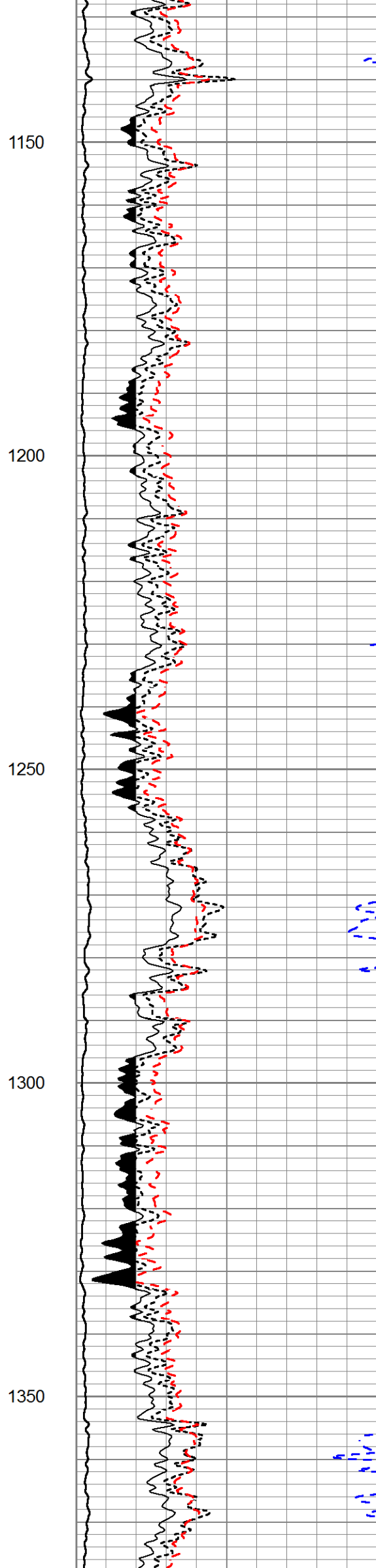
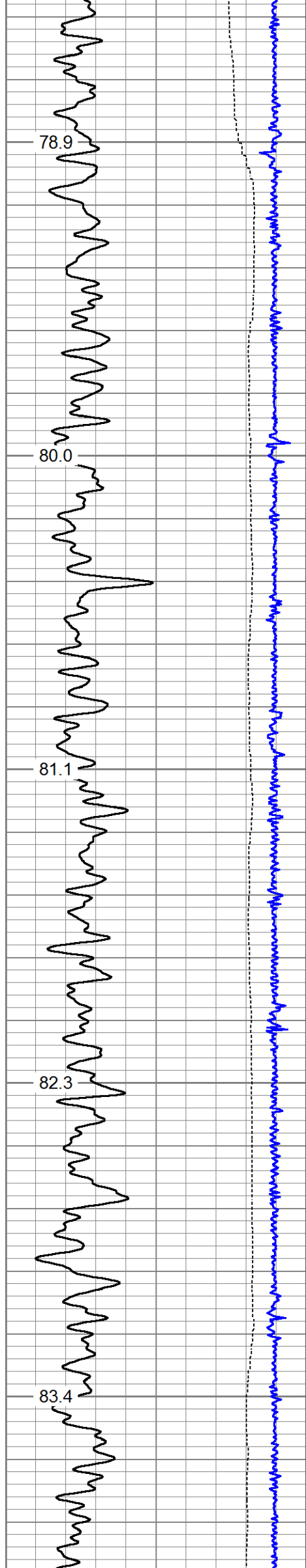


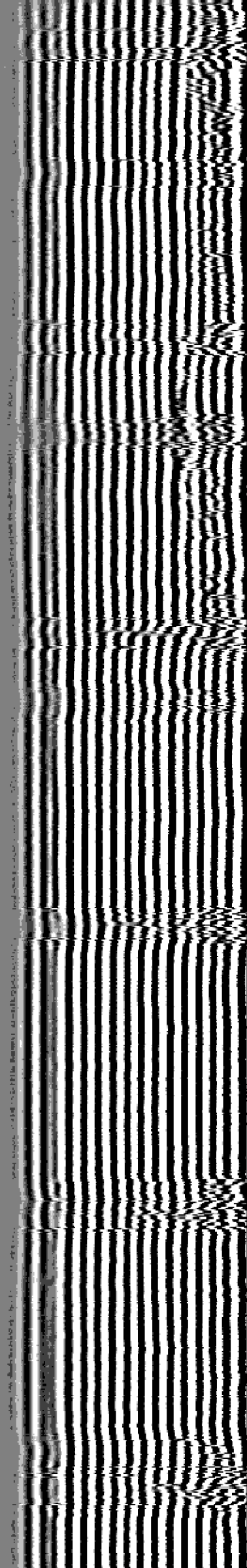
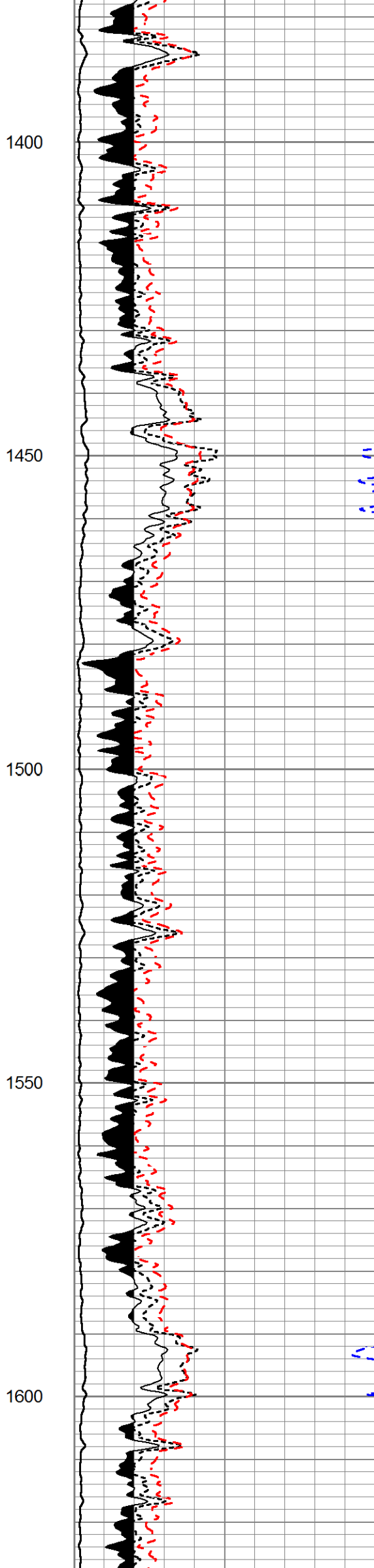
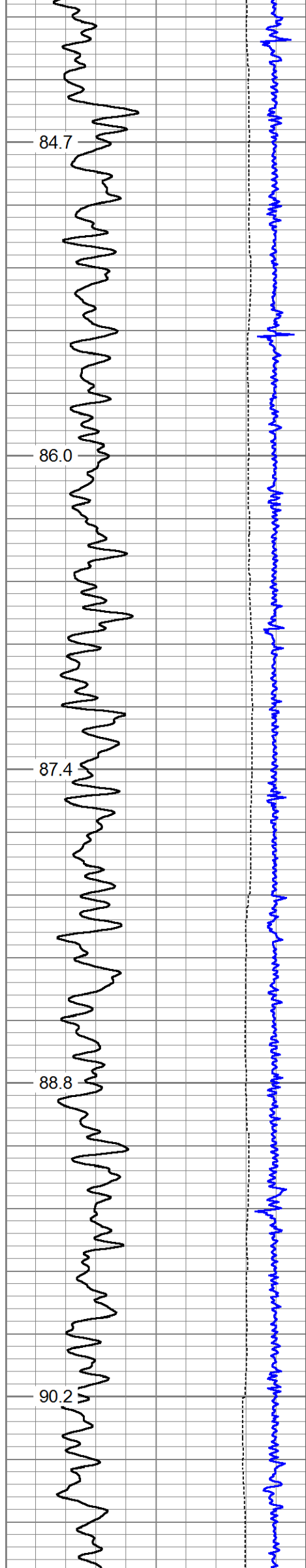




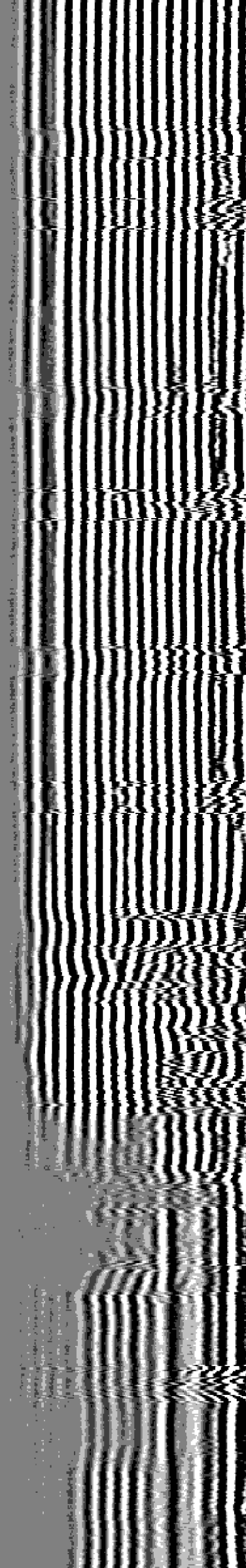
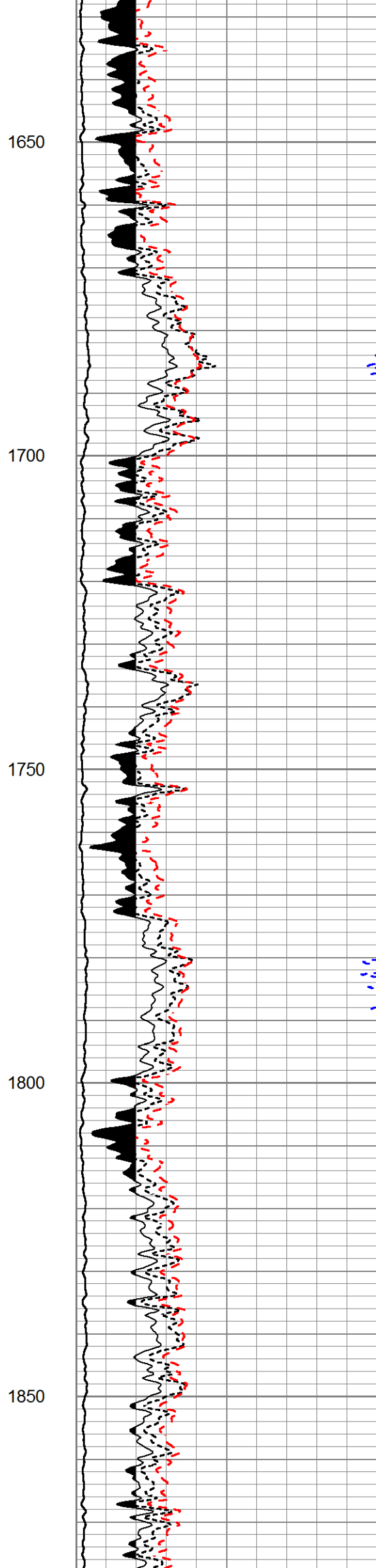
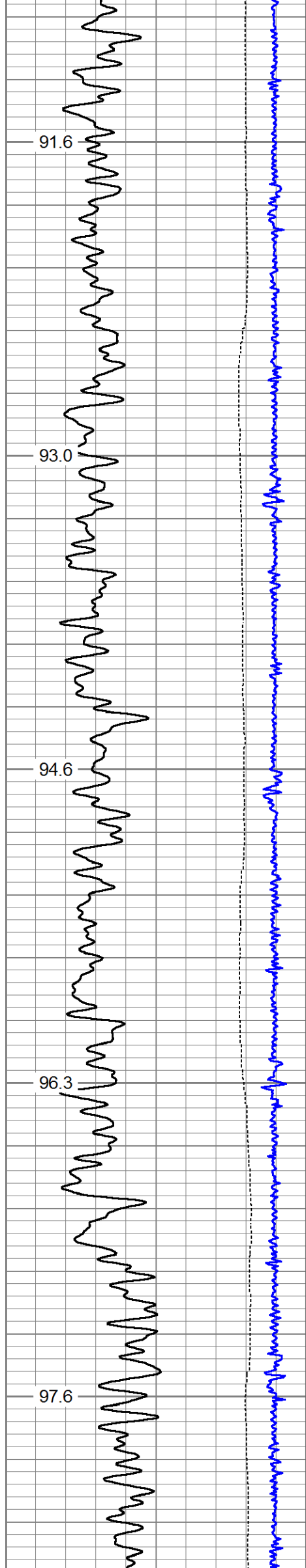


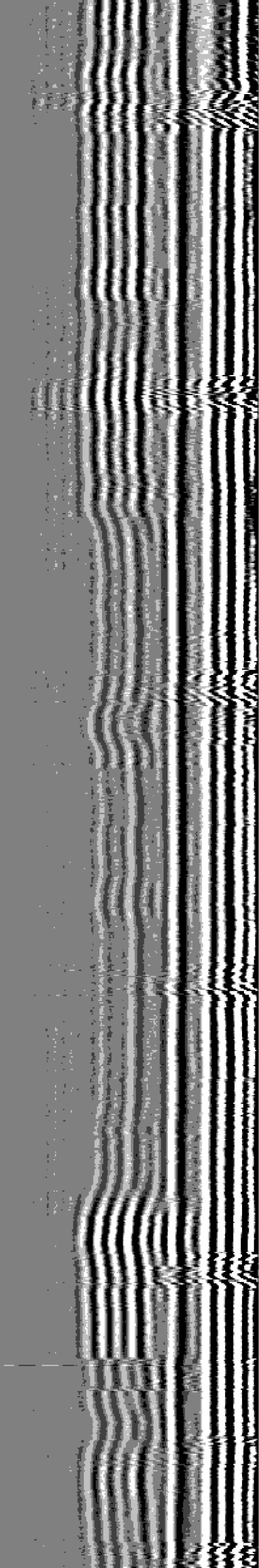
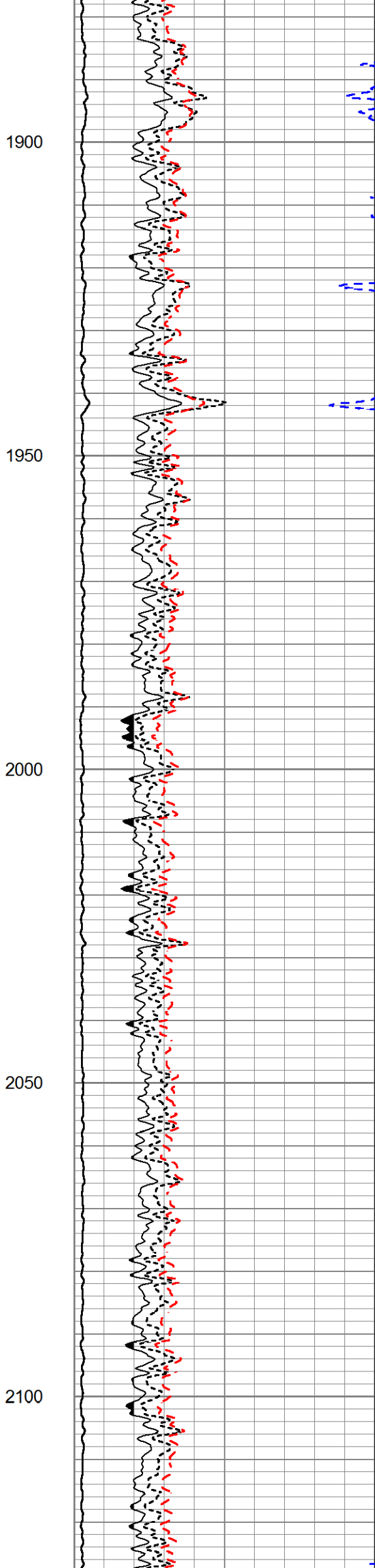
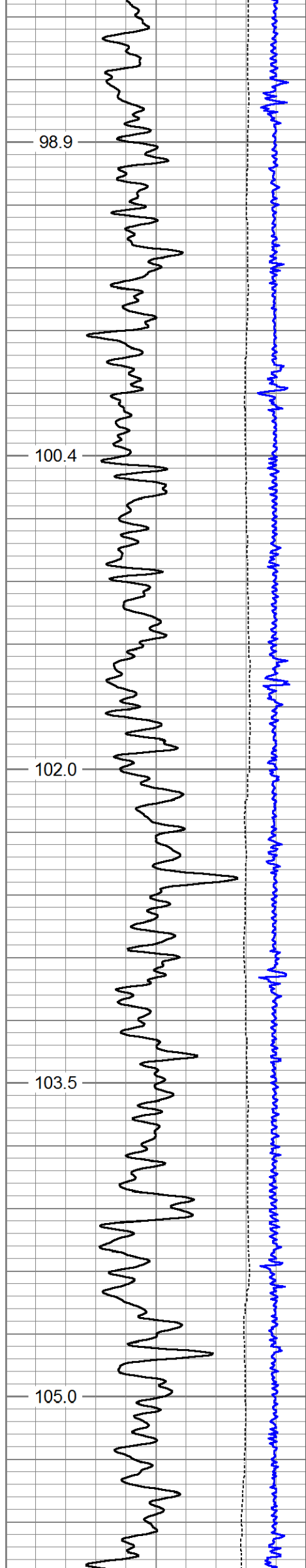


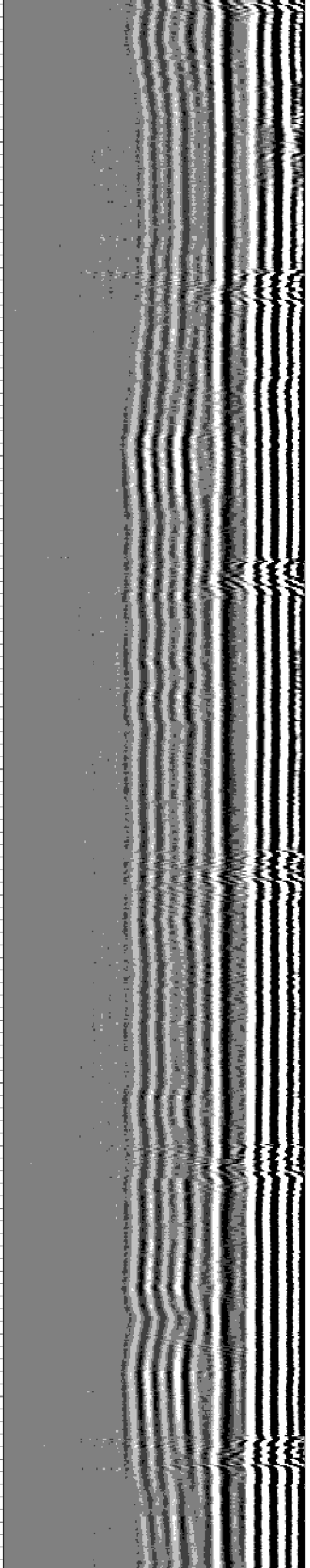
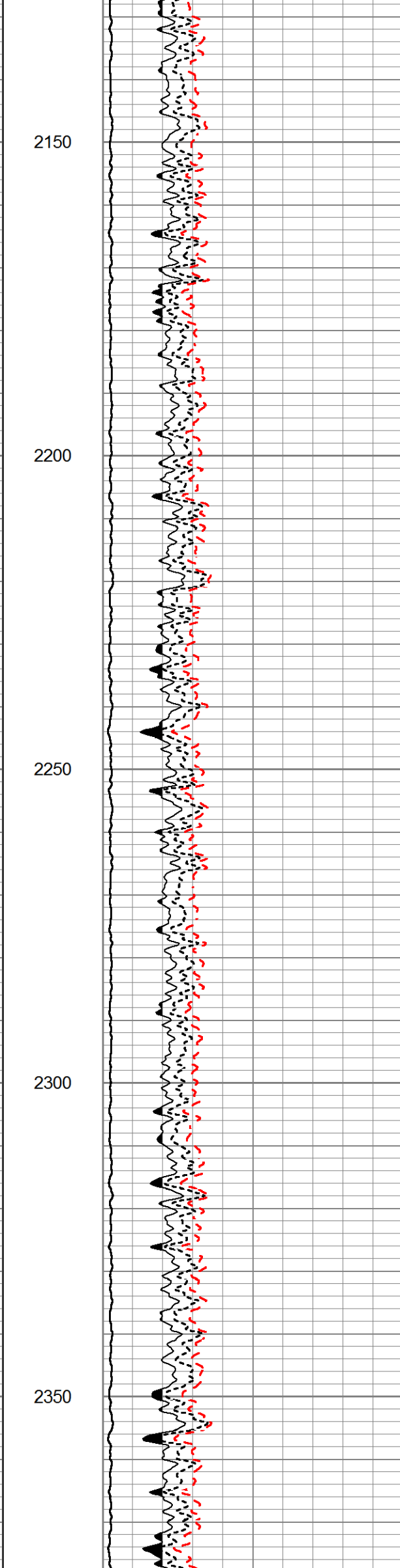
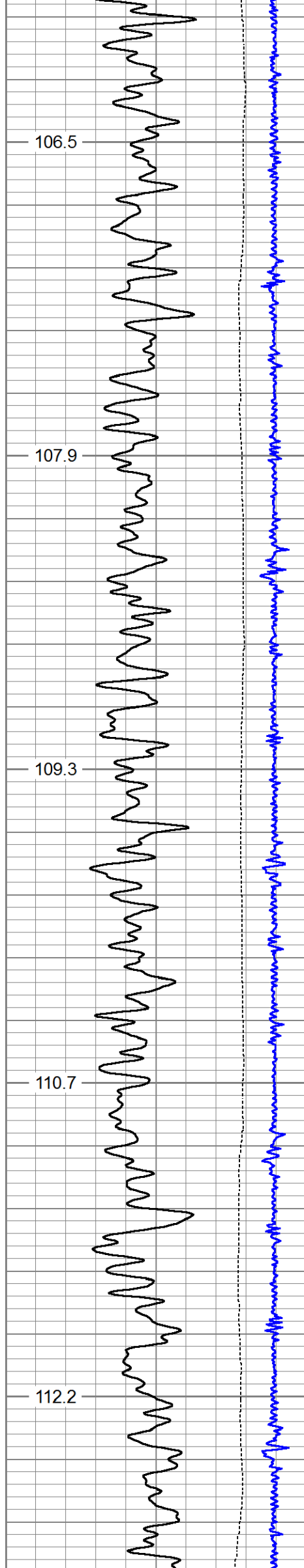




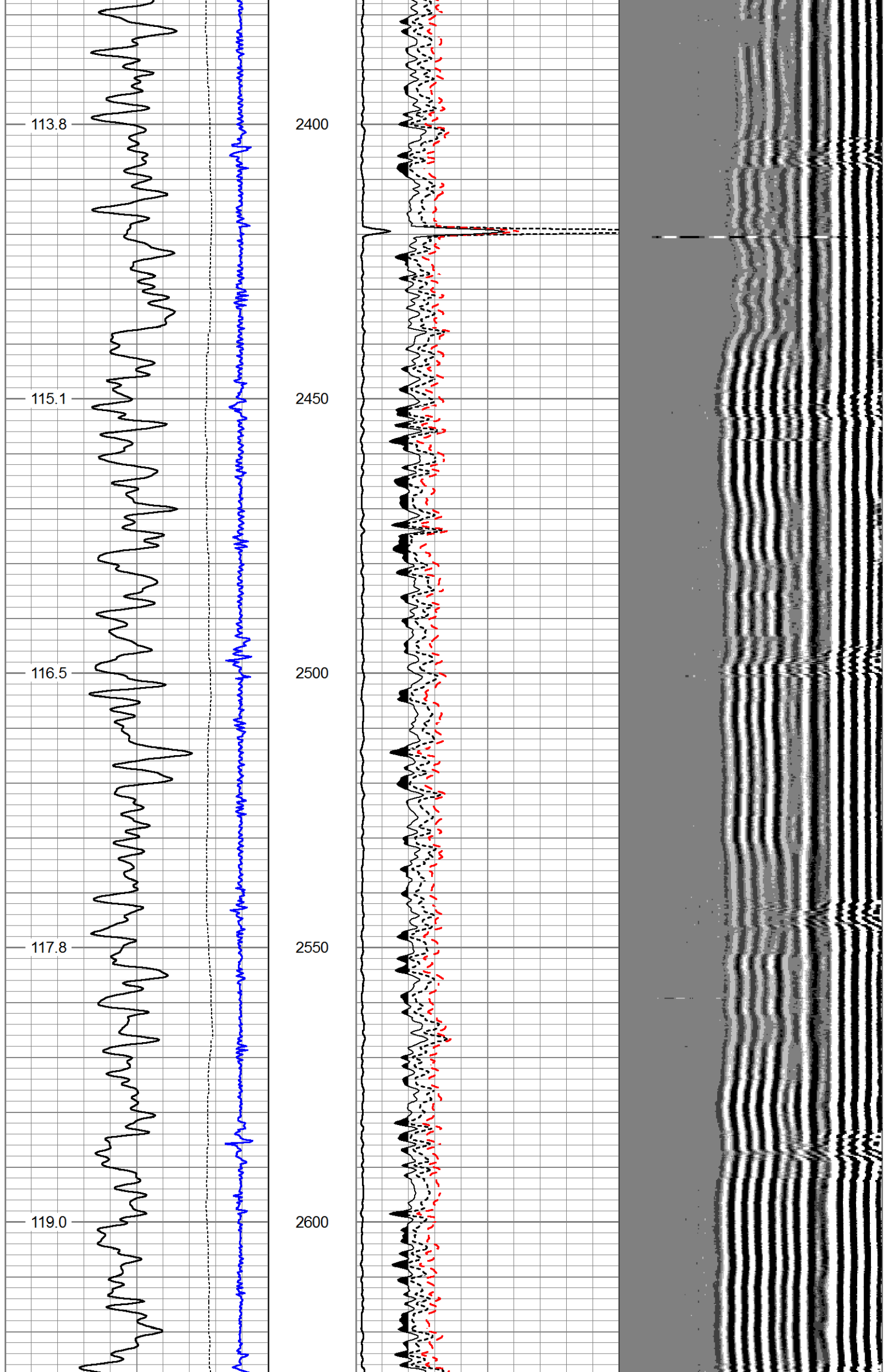


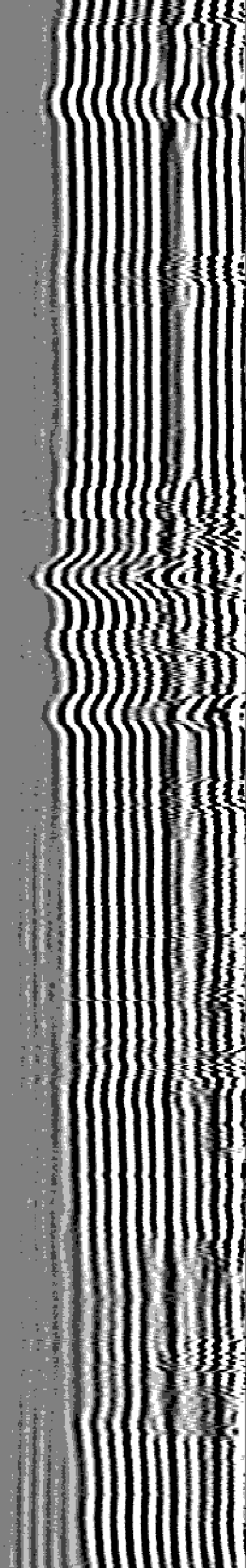
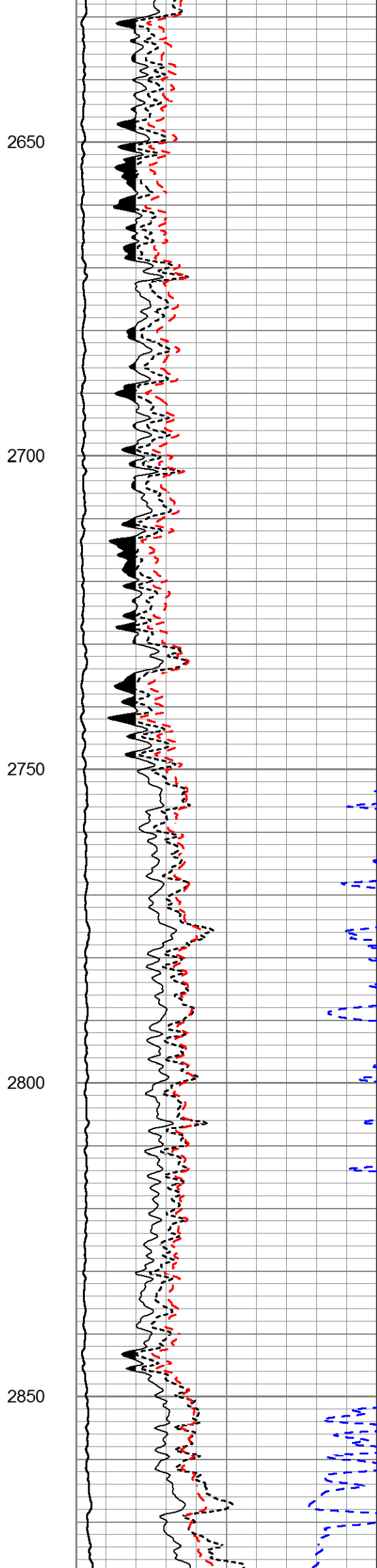
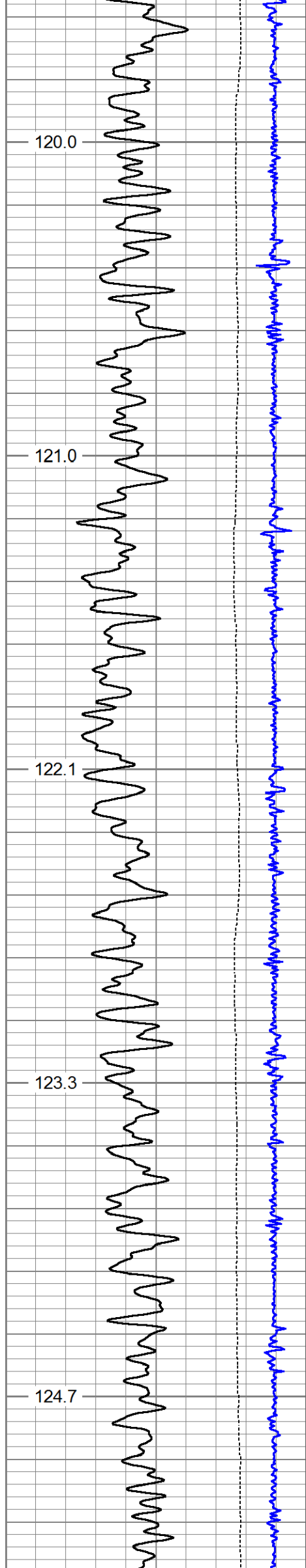


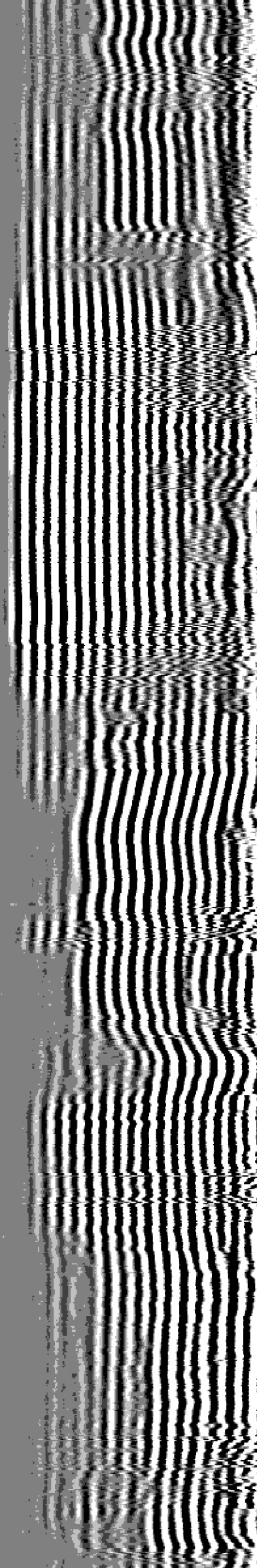
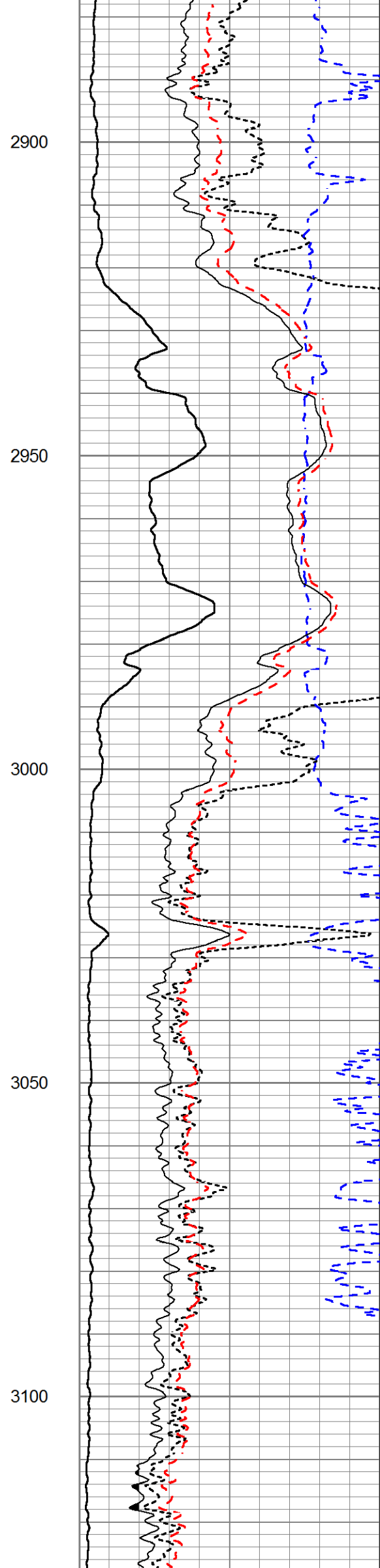
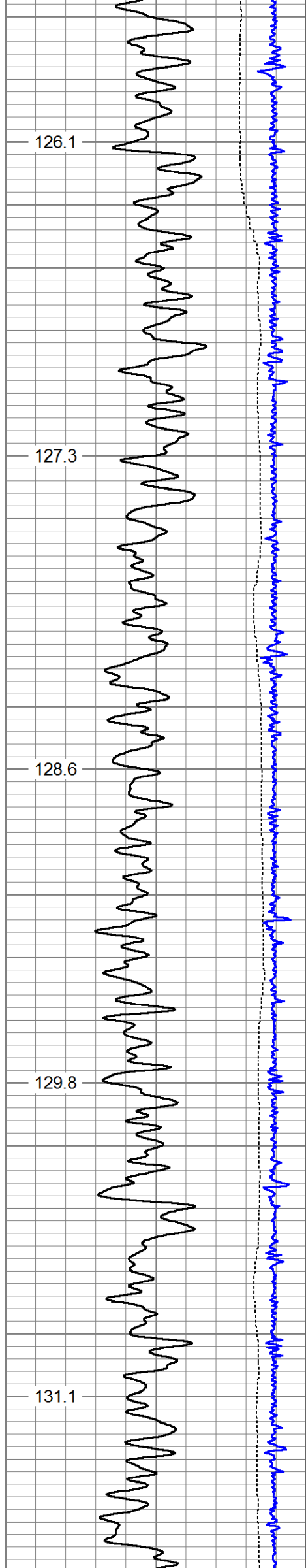




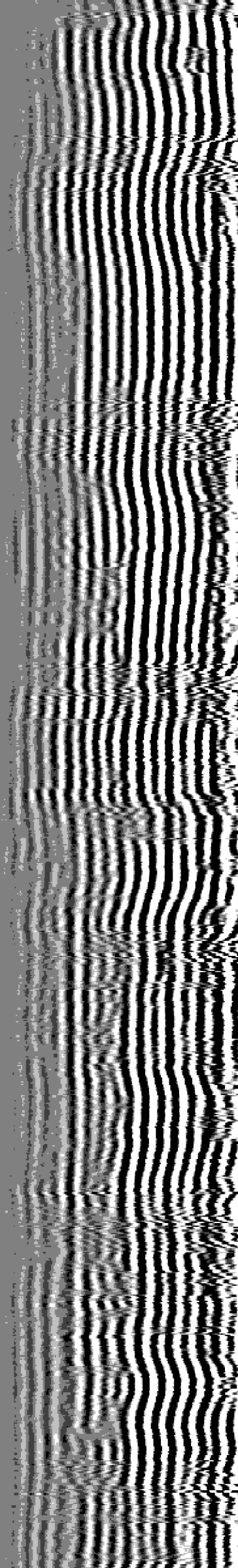
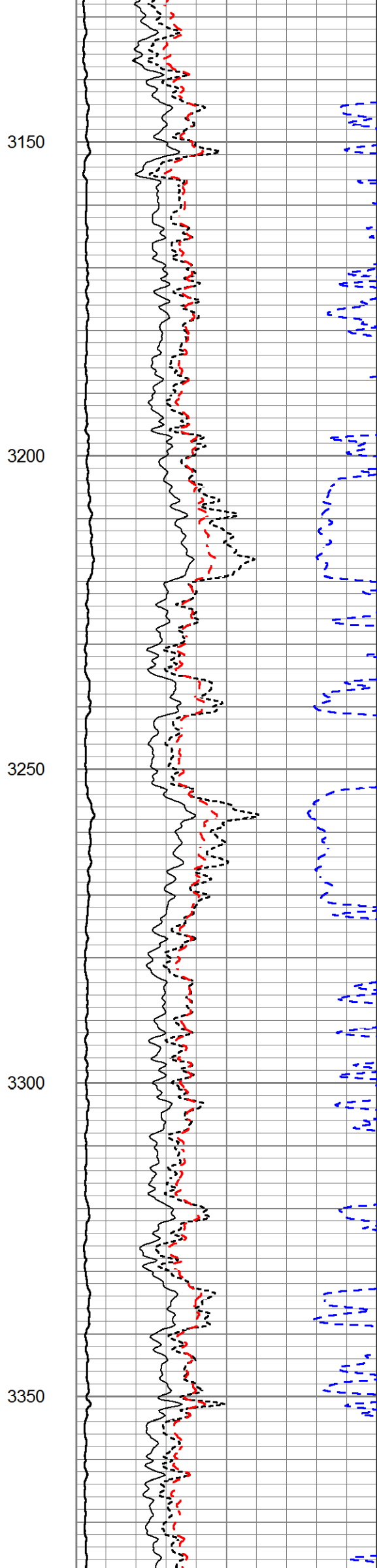
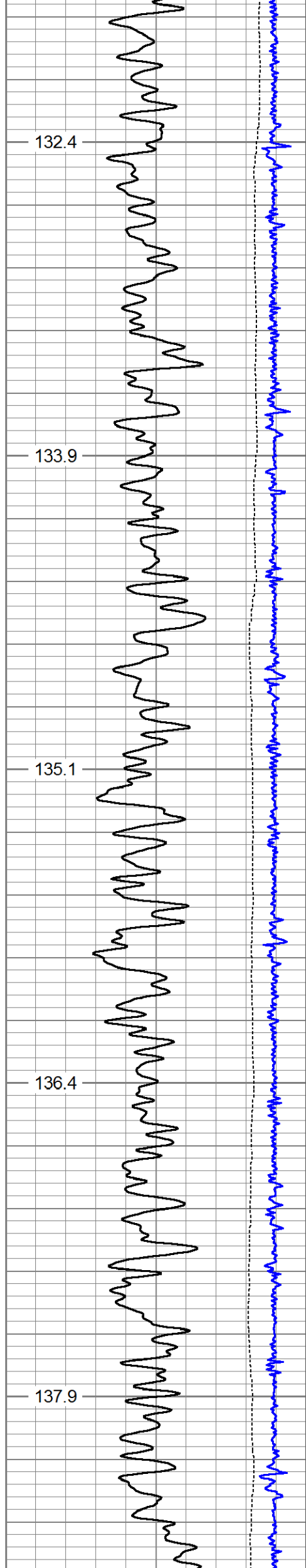


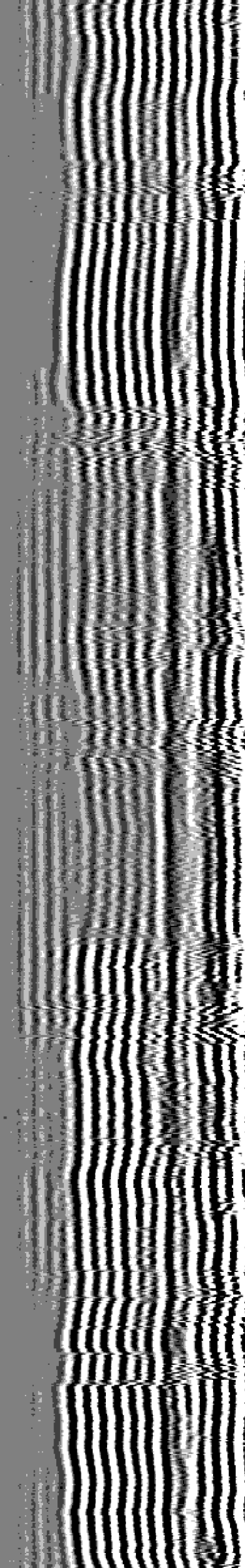
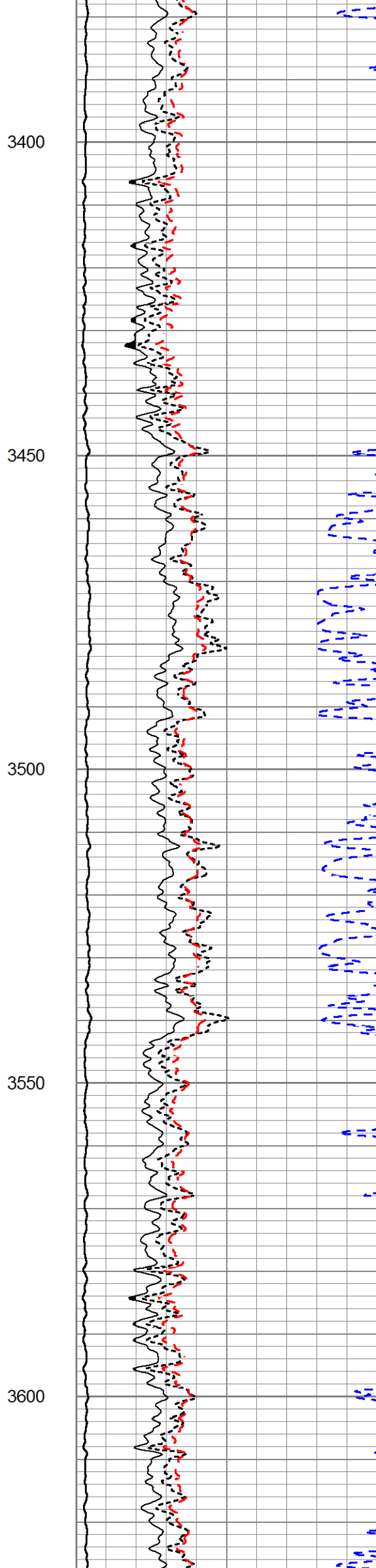
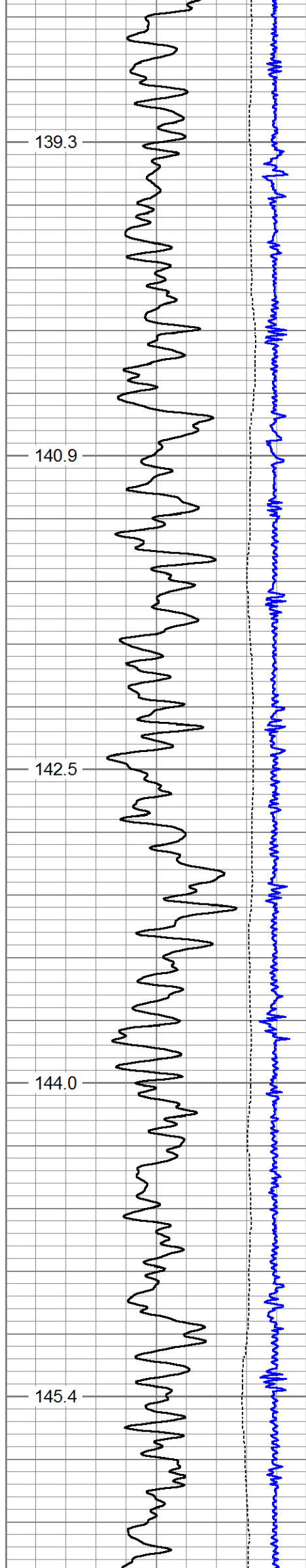


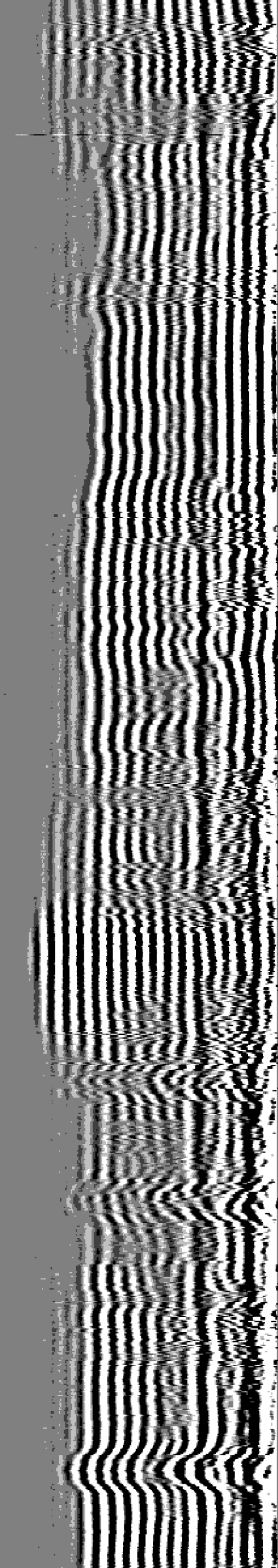
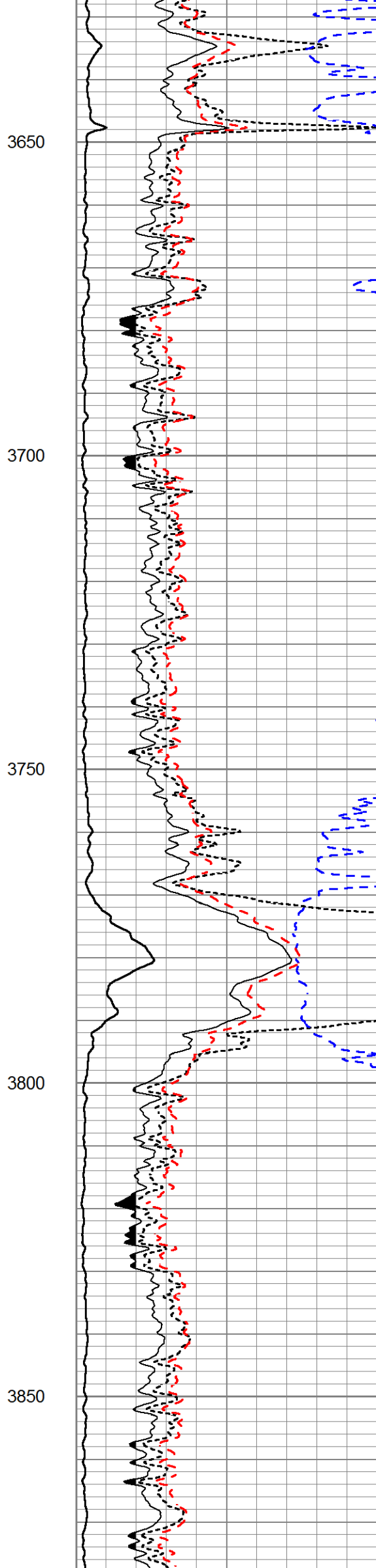
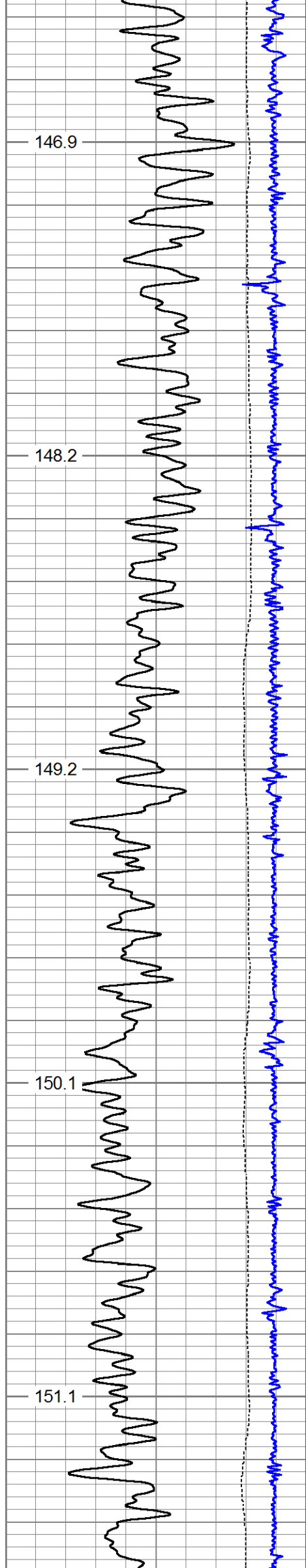




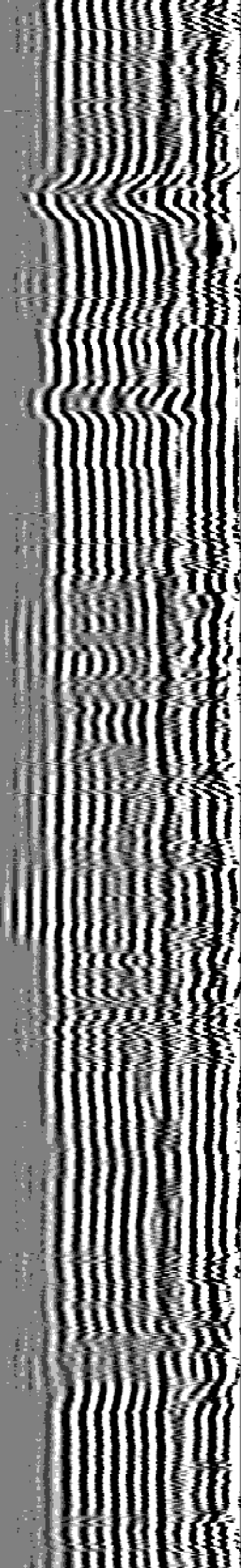
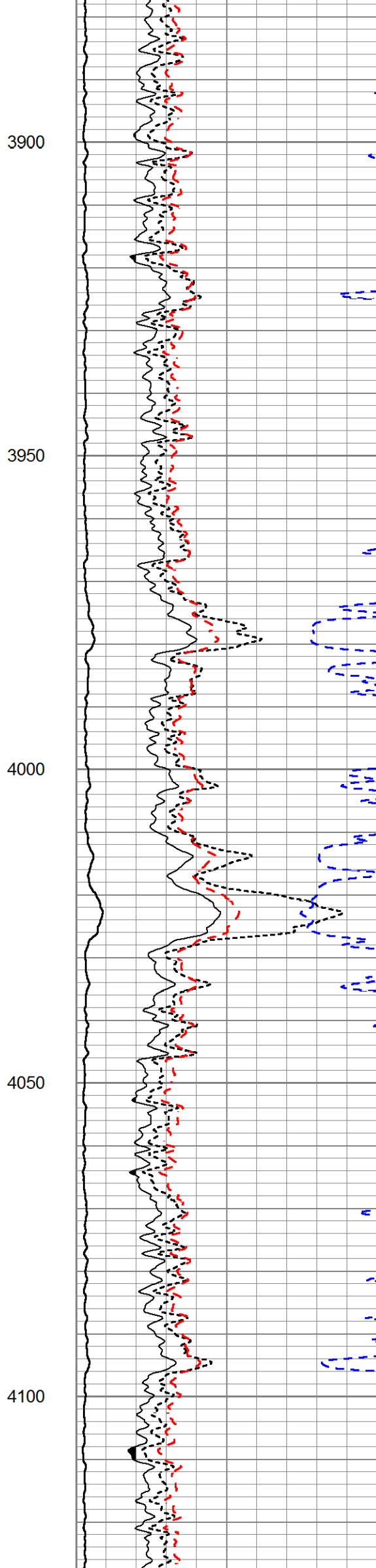
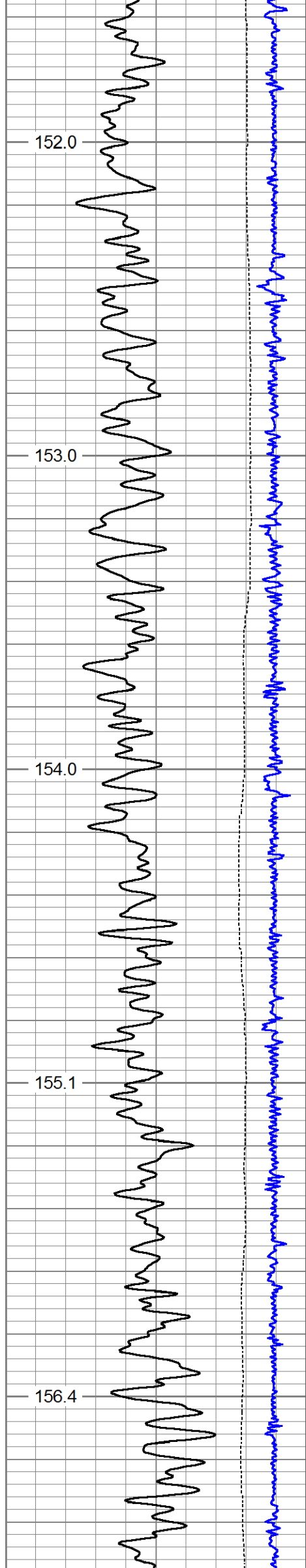


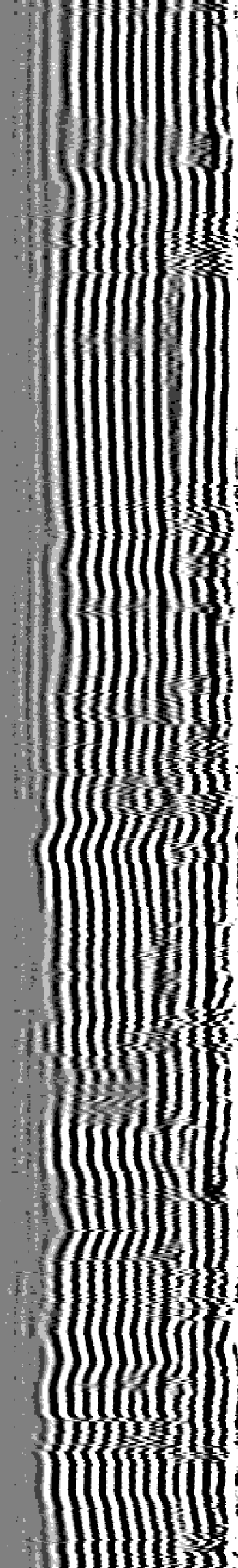
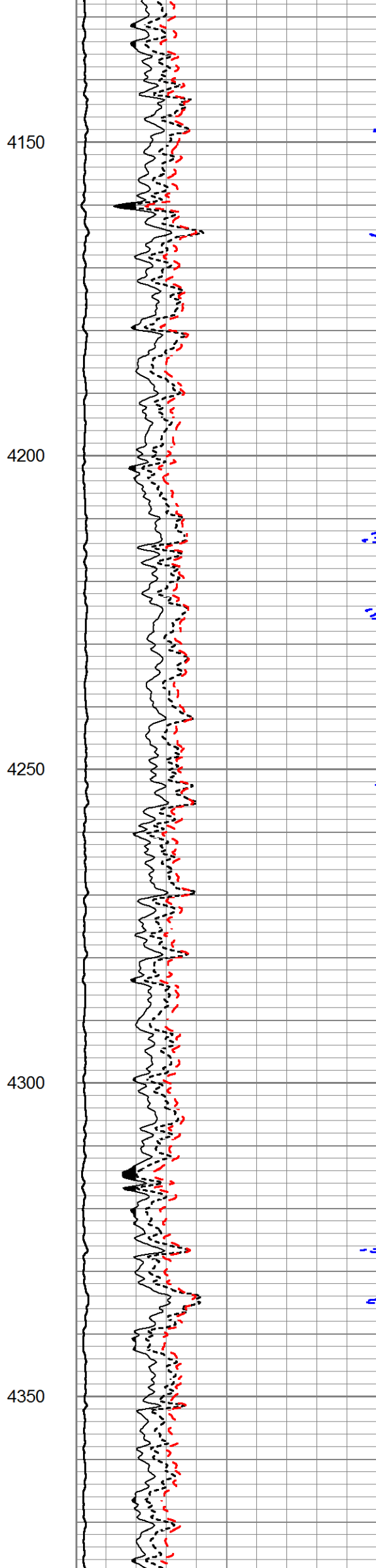
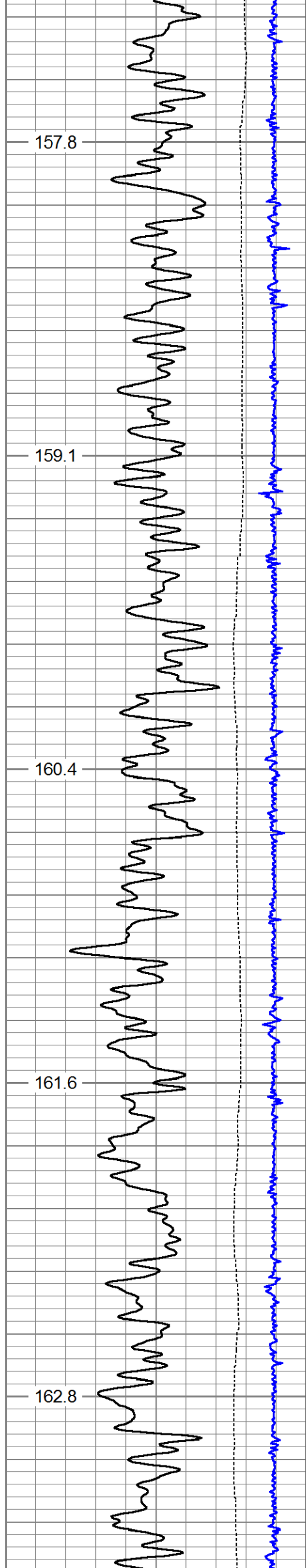


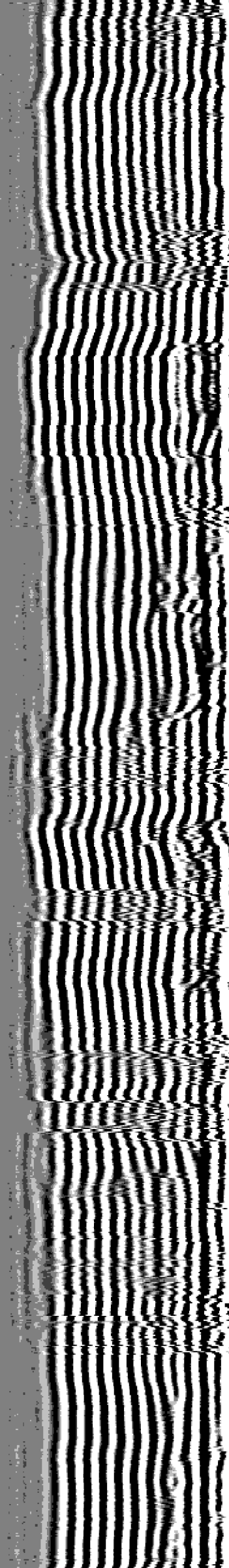
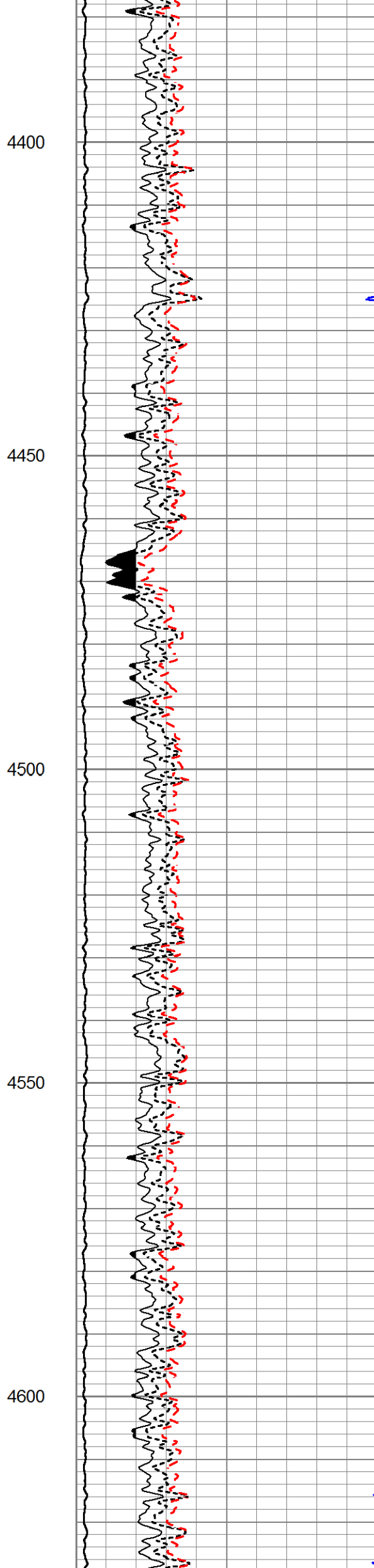
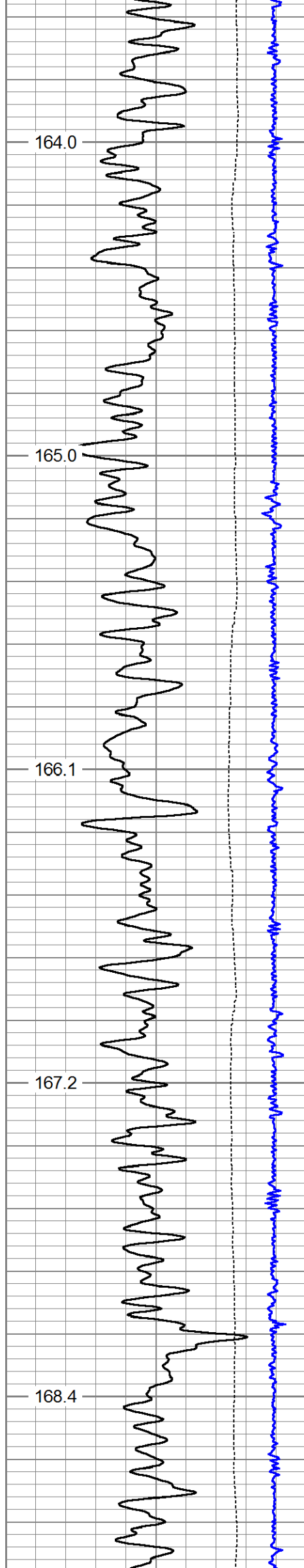




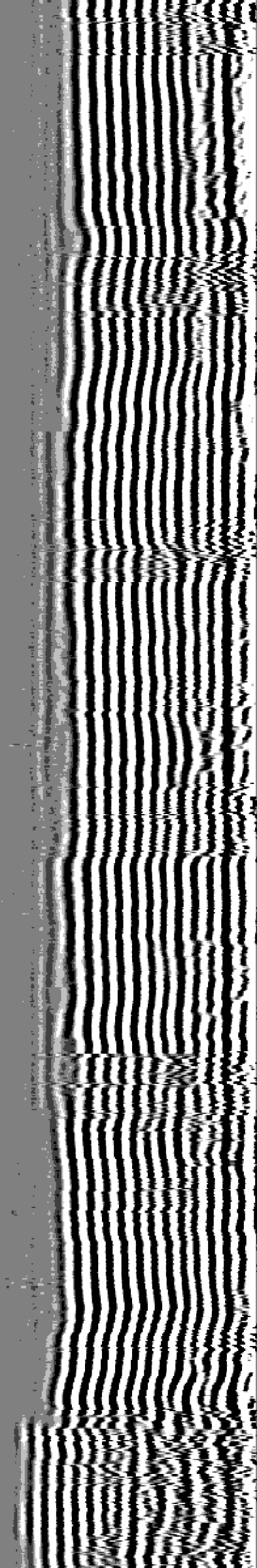
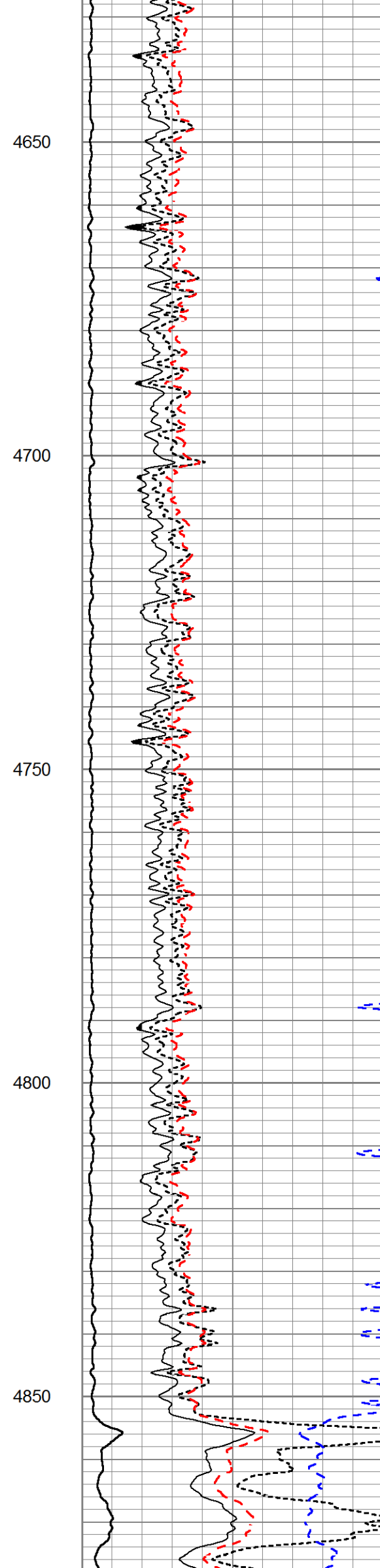
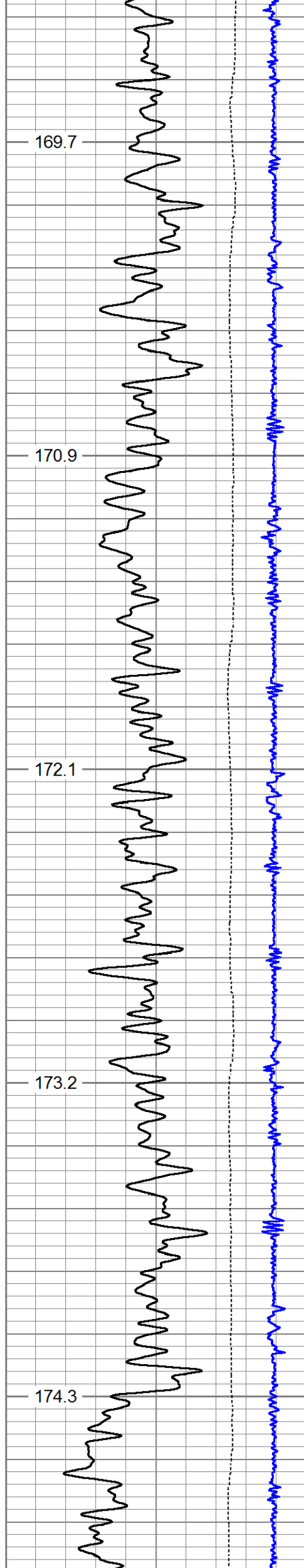


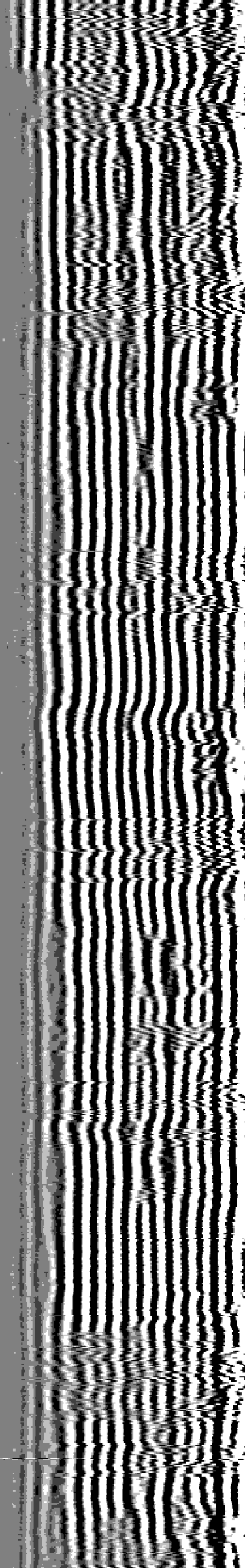
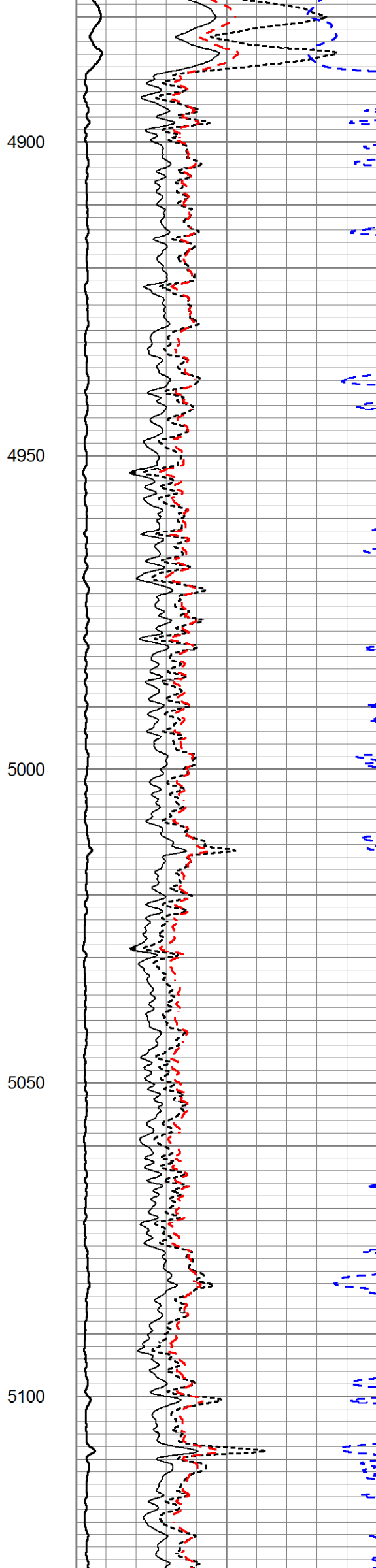
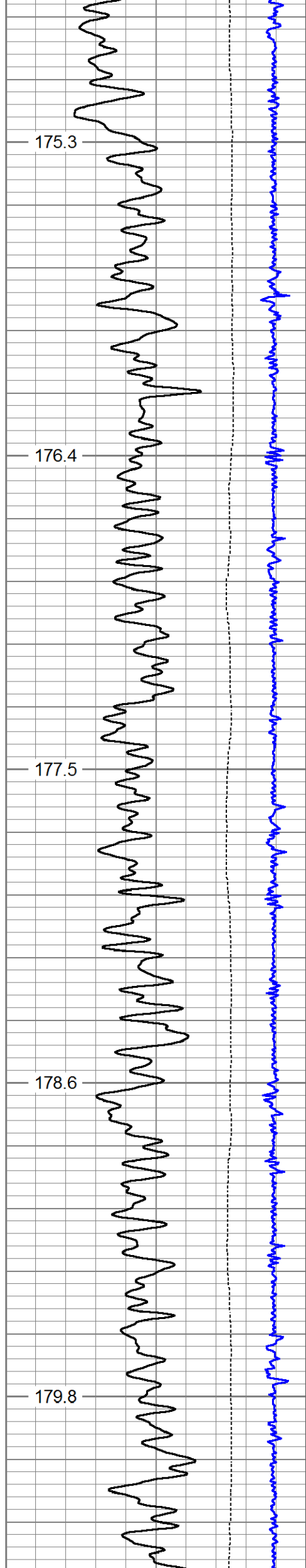


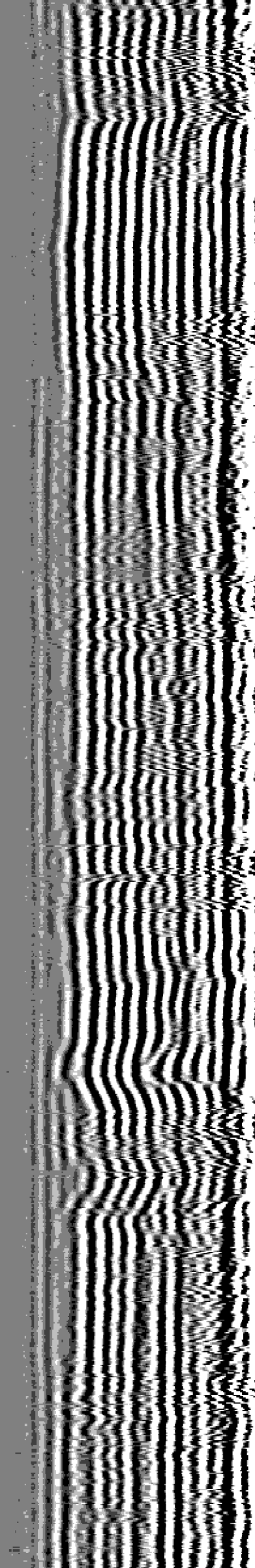
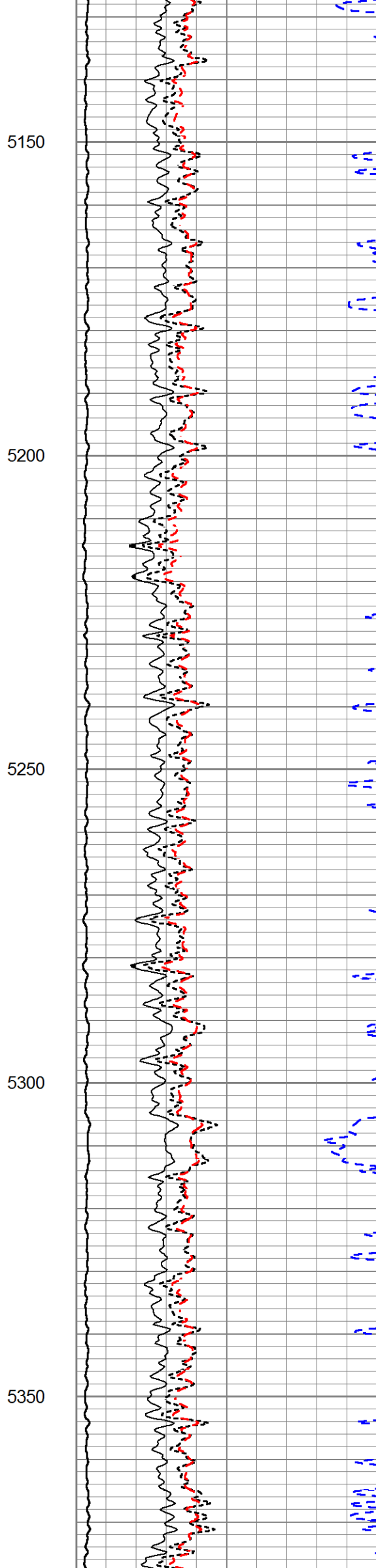
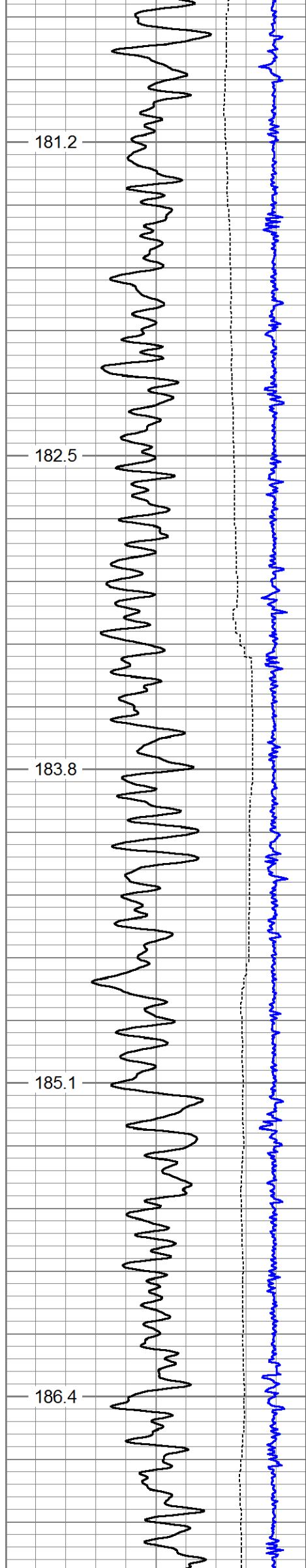


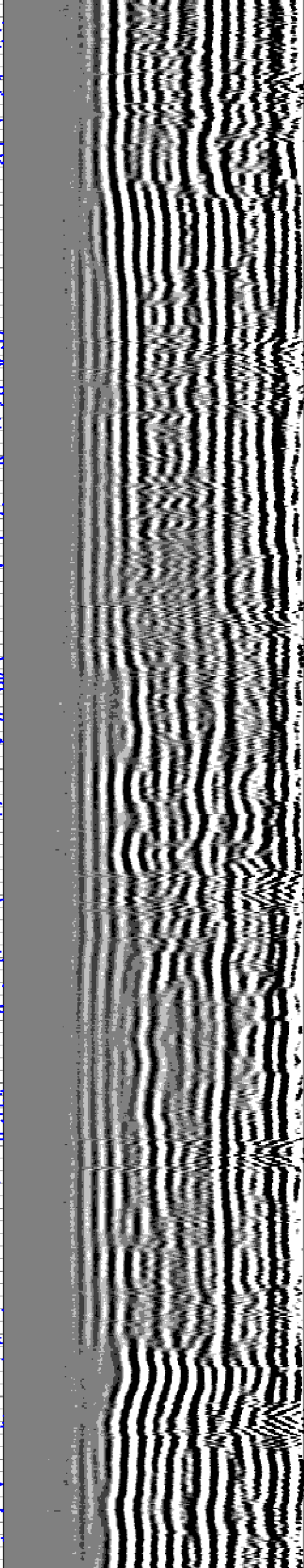
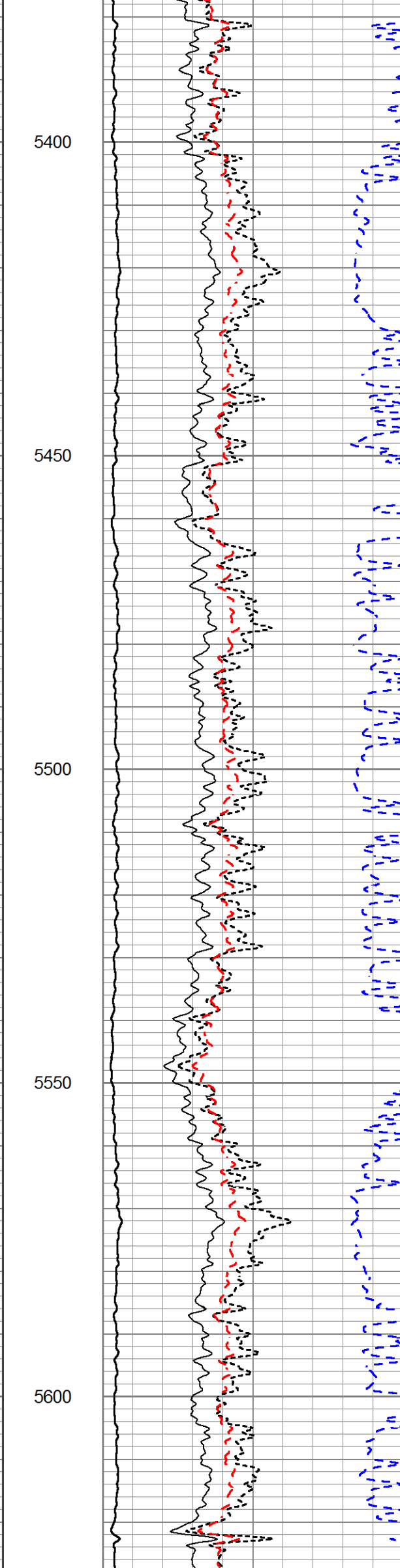
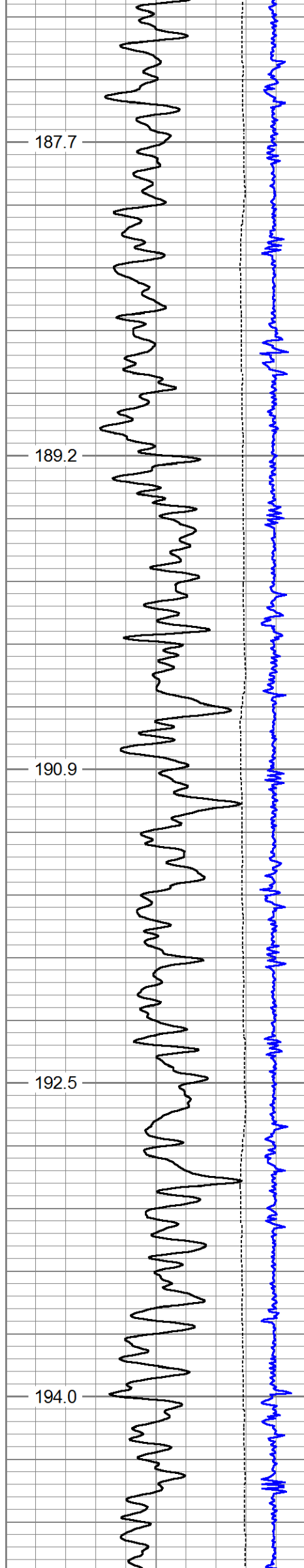




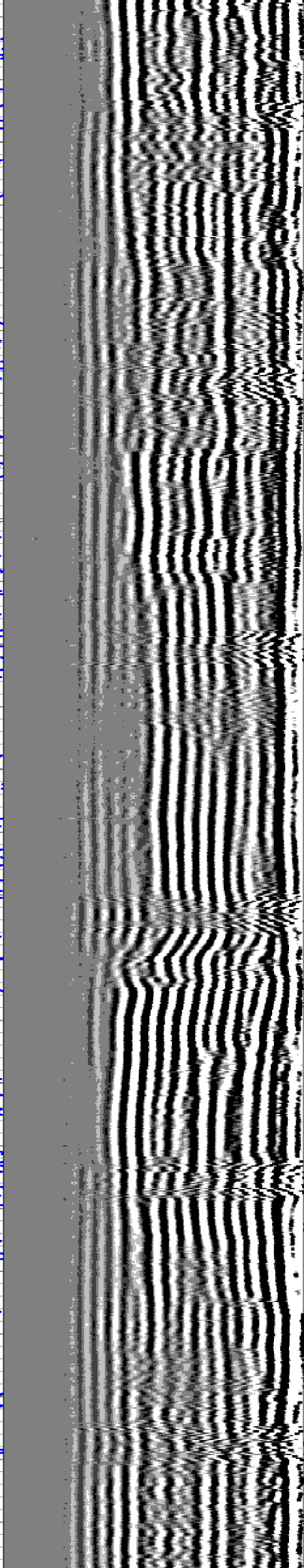
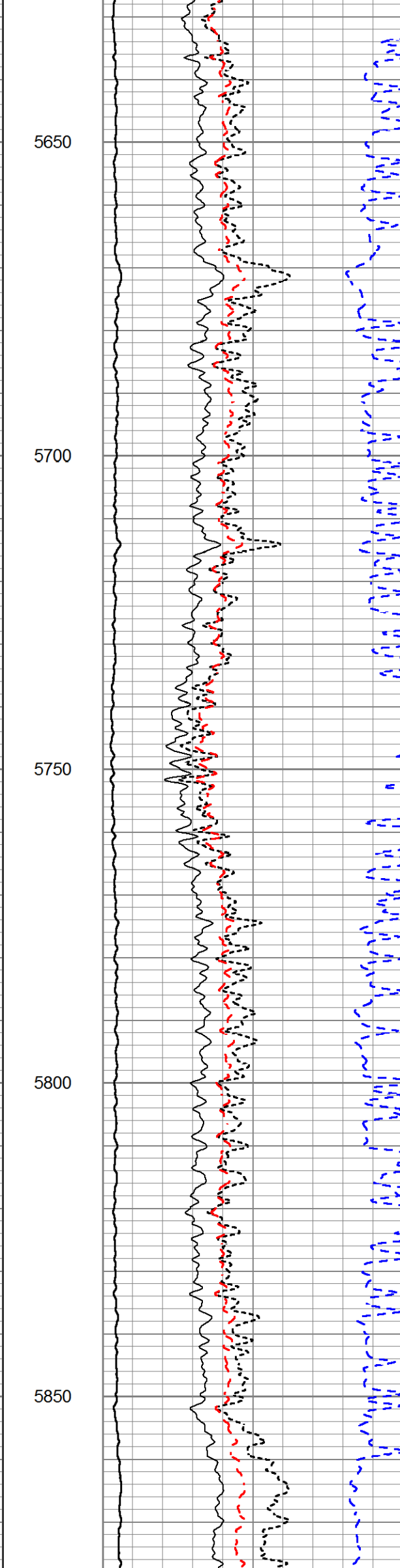
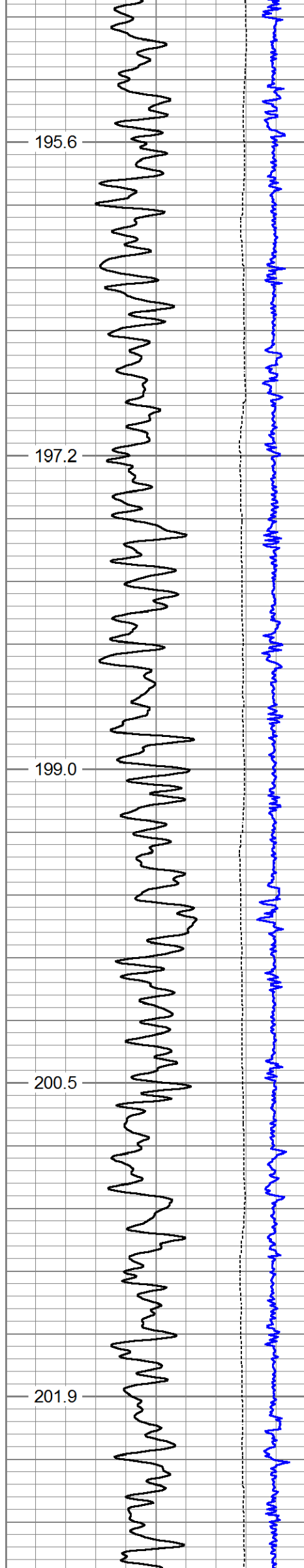


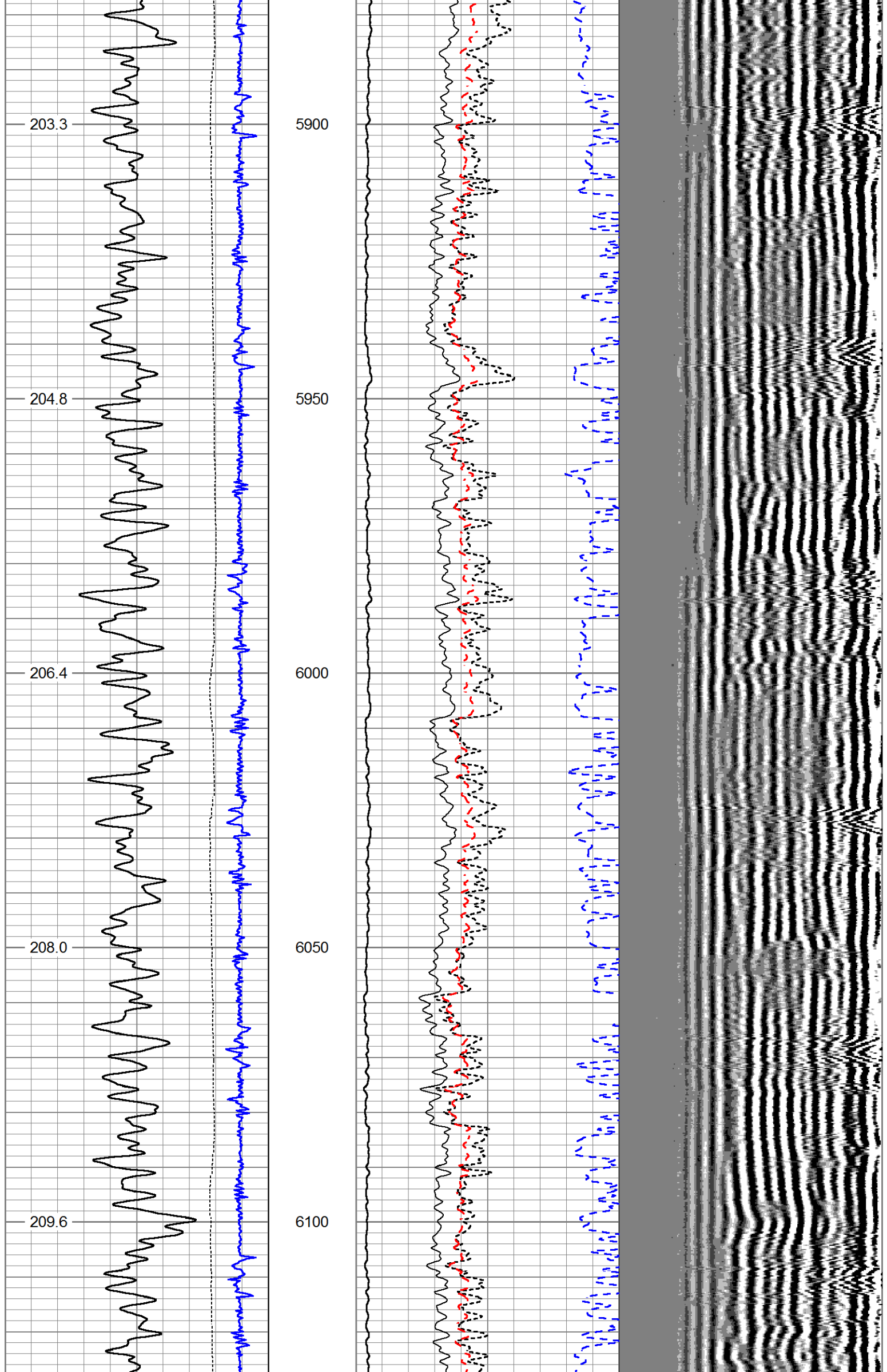


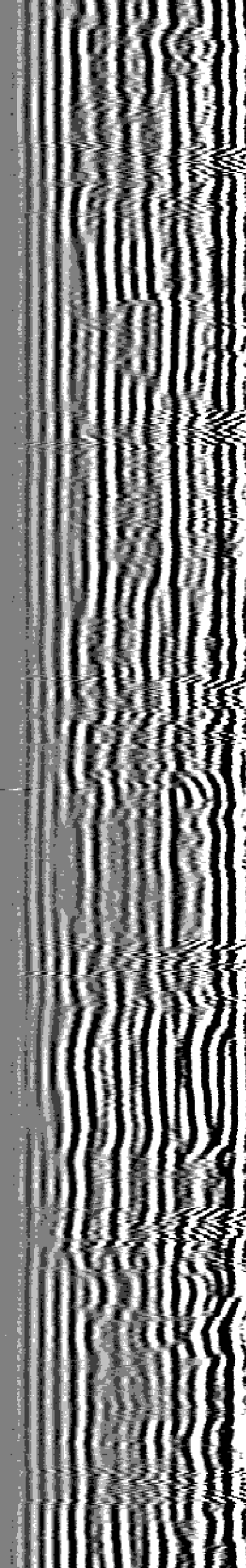
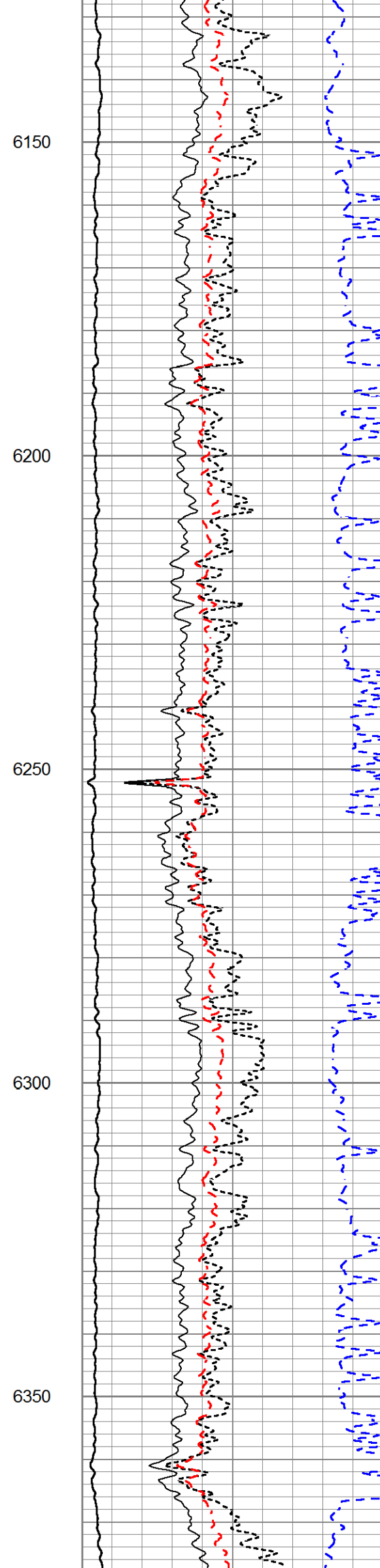
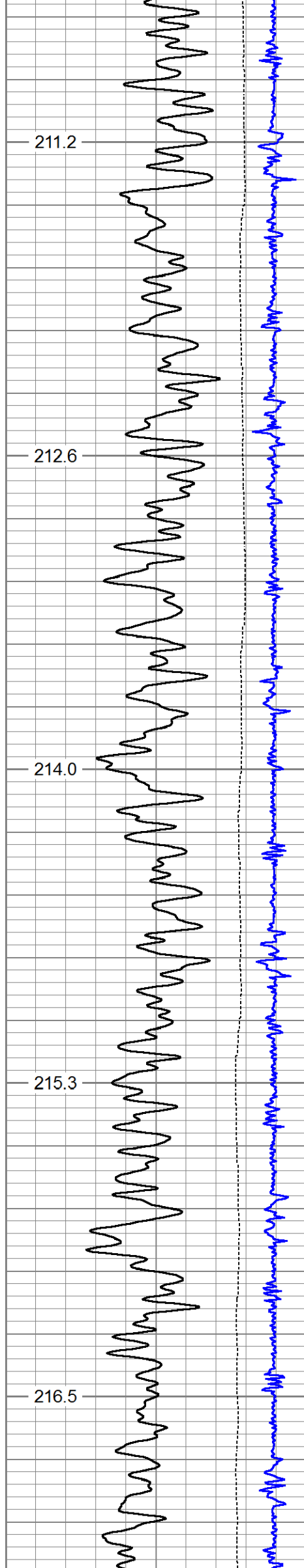




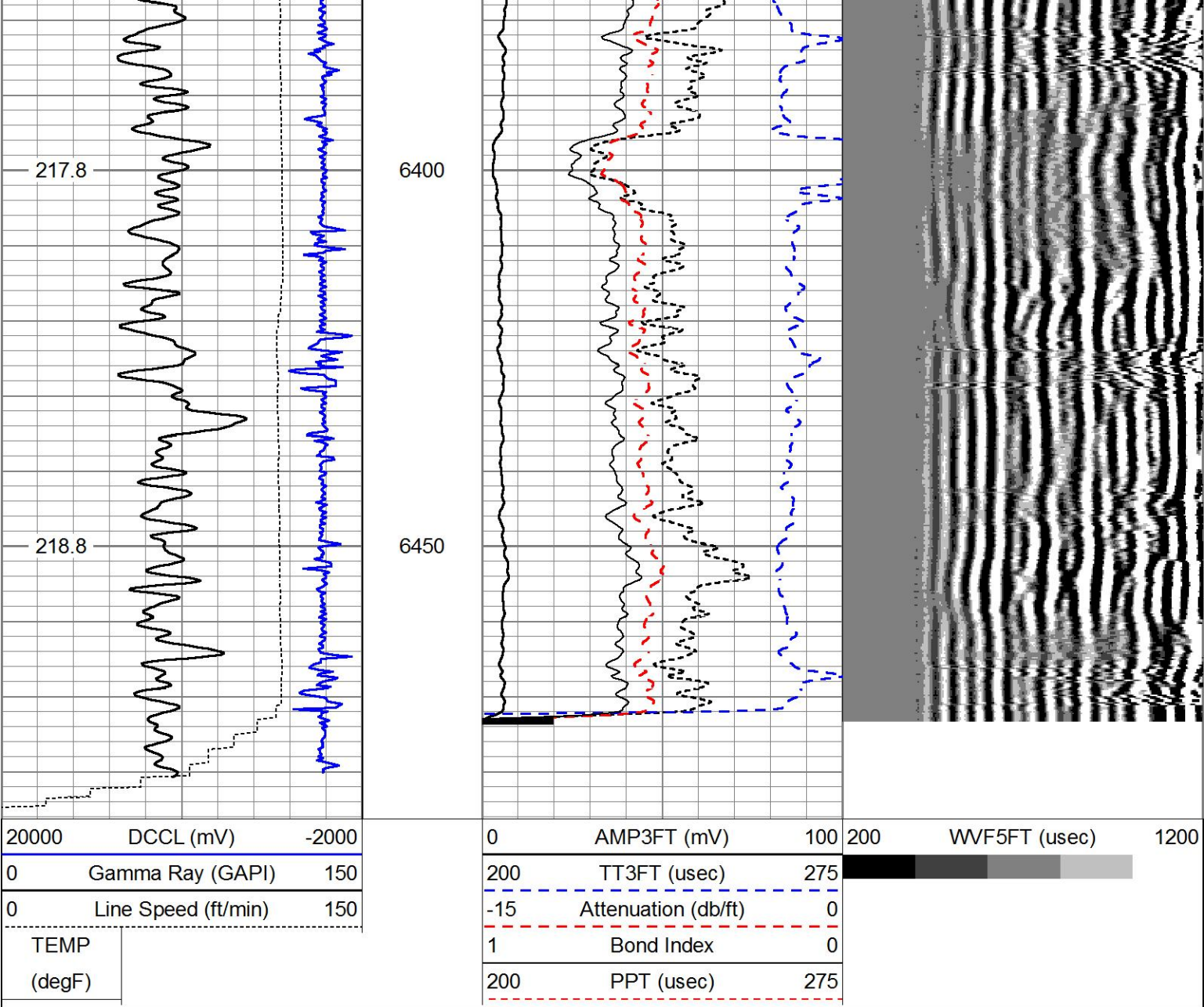












MAIN PASS

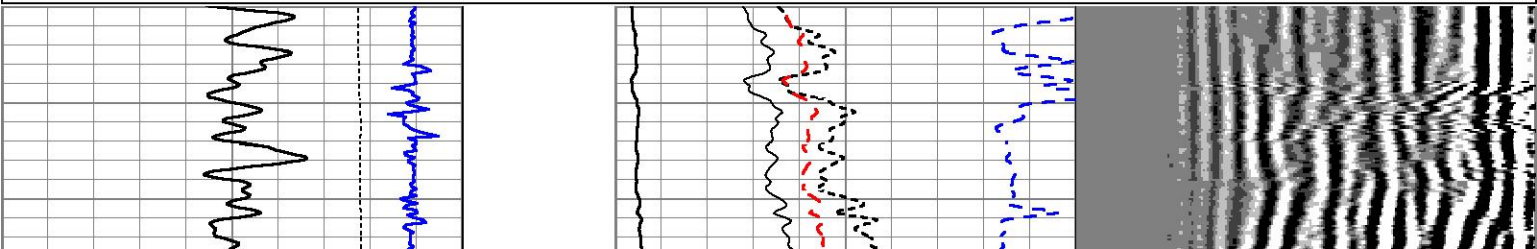
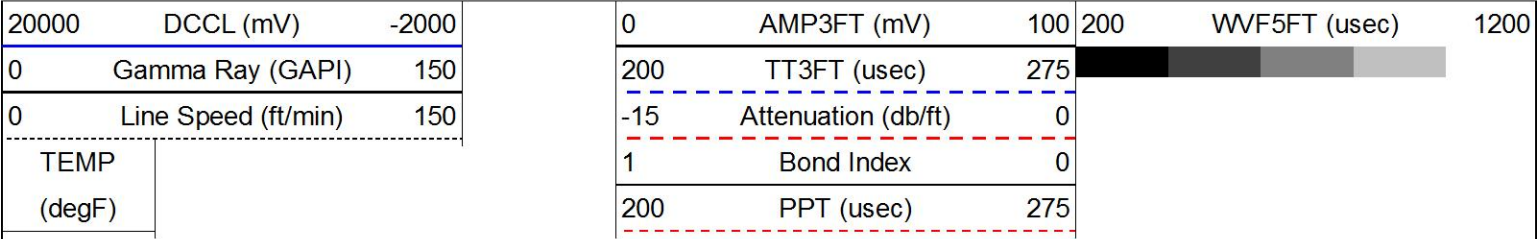
5"=100'

HALLIBURTON

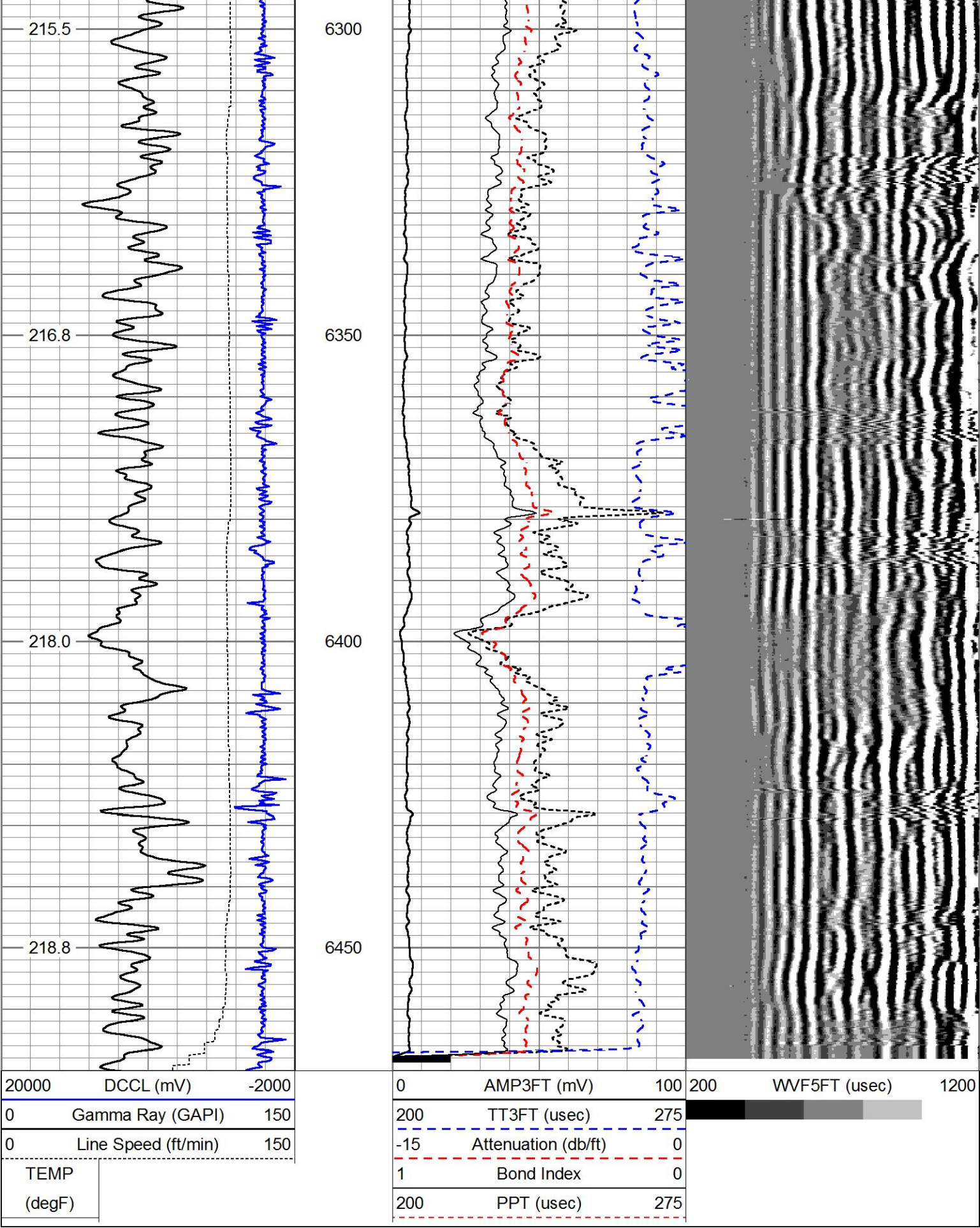
REPEAT PASS

5"=100'

Database File src\_bost\_farms\_40n-8b-l\_cbl.db  
Dataset Pathname Bost/40N-8B-L\_CBL/ONE/REPEAT  
Presentation Format cbl\_dr  
Dataset Creation Sun Jan 20 21:39:20 2019  
Charted by Depth in Feet scaled 1:240







REPEAT PASS

HALLIBURTON

5"=100'

Log Variables

DatabaseC:\ProgramData\Warrior\Data\src\_bost\_farms\_40n-8b-l\_cbl.db  
Dataset Bost/40N-8B-L\_CBL/ONE/MAIN/\_vars\_

Top - Bottom

BHTEMP_Src	BITSIZE in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV
TEMP	7.875	220	5.5	0.361	20	72	1

TEMP	1.075	220	0.0	0.001	20	12	1
MINATTN db/ft 0.8	MudWgt lb/gal 8.4	PERFS  0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0	USERFTT usec/ft 0	ZREF MRayl 1.7

Calibration Report	
Database File	src_bost_farms_40n-8b-l_cbl.db
Dataset Pathname	Bost/40N-8B-L_CBL/ONE/REPEAT
Dataset Creation	Sun Jan 20 21:39:20 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			
Serial Number:	275		
Tool Model:	Probe		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	179.445	ft	


Master Calibration, performed Sun Jan 20 21:13:14 2019:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.022	1.726	1.000	72.000	41.673	0.087
CAL						
5'	0.023	1.825	1.000	72.000	39.399	0.098
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)	Calibrated (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
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					
GR	2.77					
TEMP	0.58					
Dataset: src_bost_farms_40n-8b-l_cbl.db: Bost/40N-8B-L_CBL/ONE/MAIN Total length: 29.16 ft Total weight: 285.25 lb O.D.: 2.75 in						

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