

CEMENT BOND LOG

[illegible]

<<< Fold Here >>>

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 7196'.

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, BRIGHTON, CO

Service Ticket No.	905060143	API No.	05005073420000	PGM Ver	WARRIOR 8
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
GAMMA		CBL			
Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	061016	Serial No.	070416	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	

No.	Flow	FS	Pressure	Flow				
ONE	7992'	SURFACE	1000 PSI	100 FPM				
	GAMMA		AMPLITUDE					
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
	0	300	0	100				
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

FREE PIPE PASS

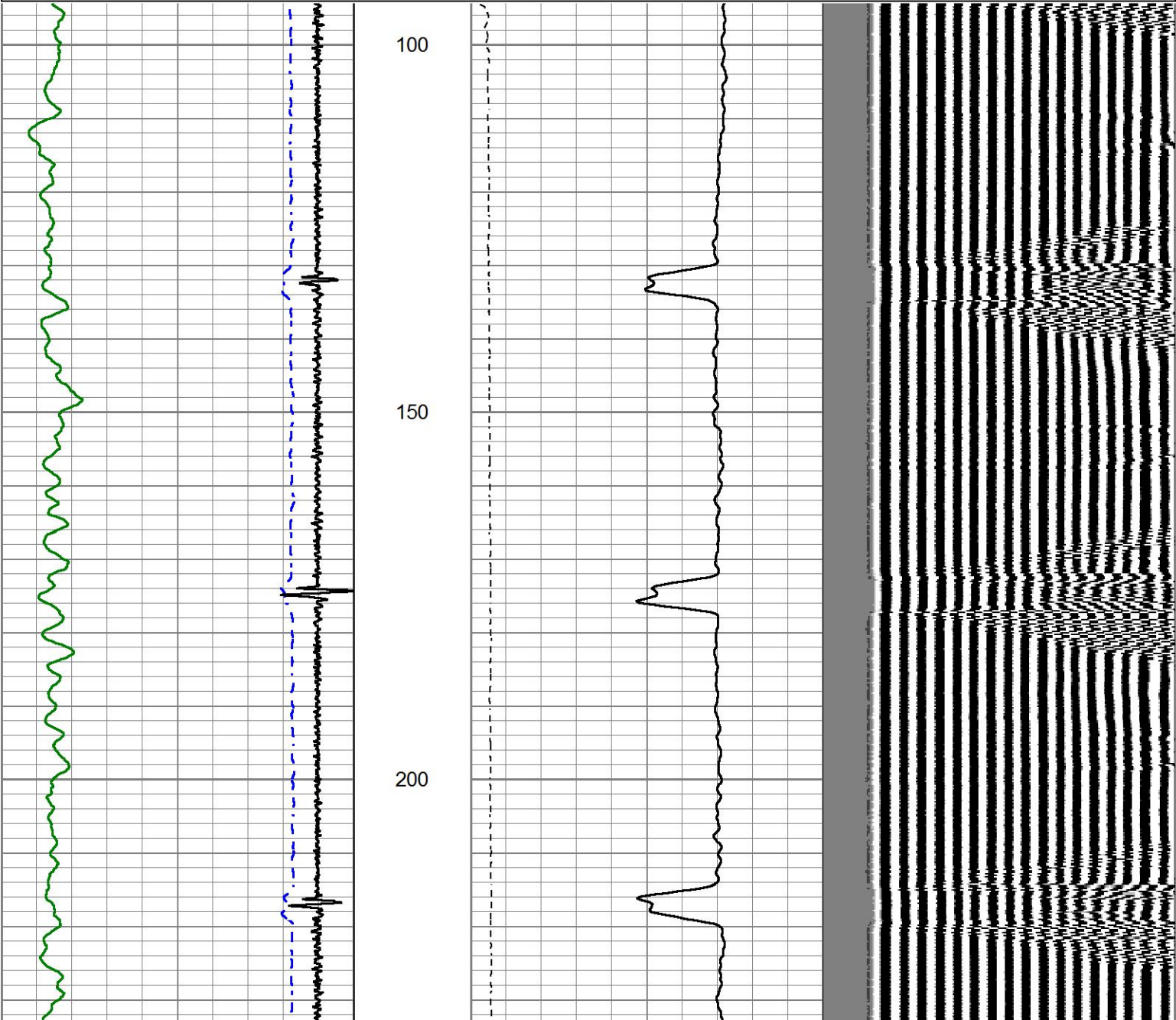
HALLIBURTON

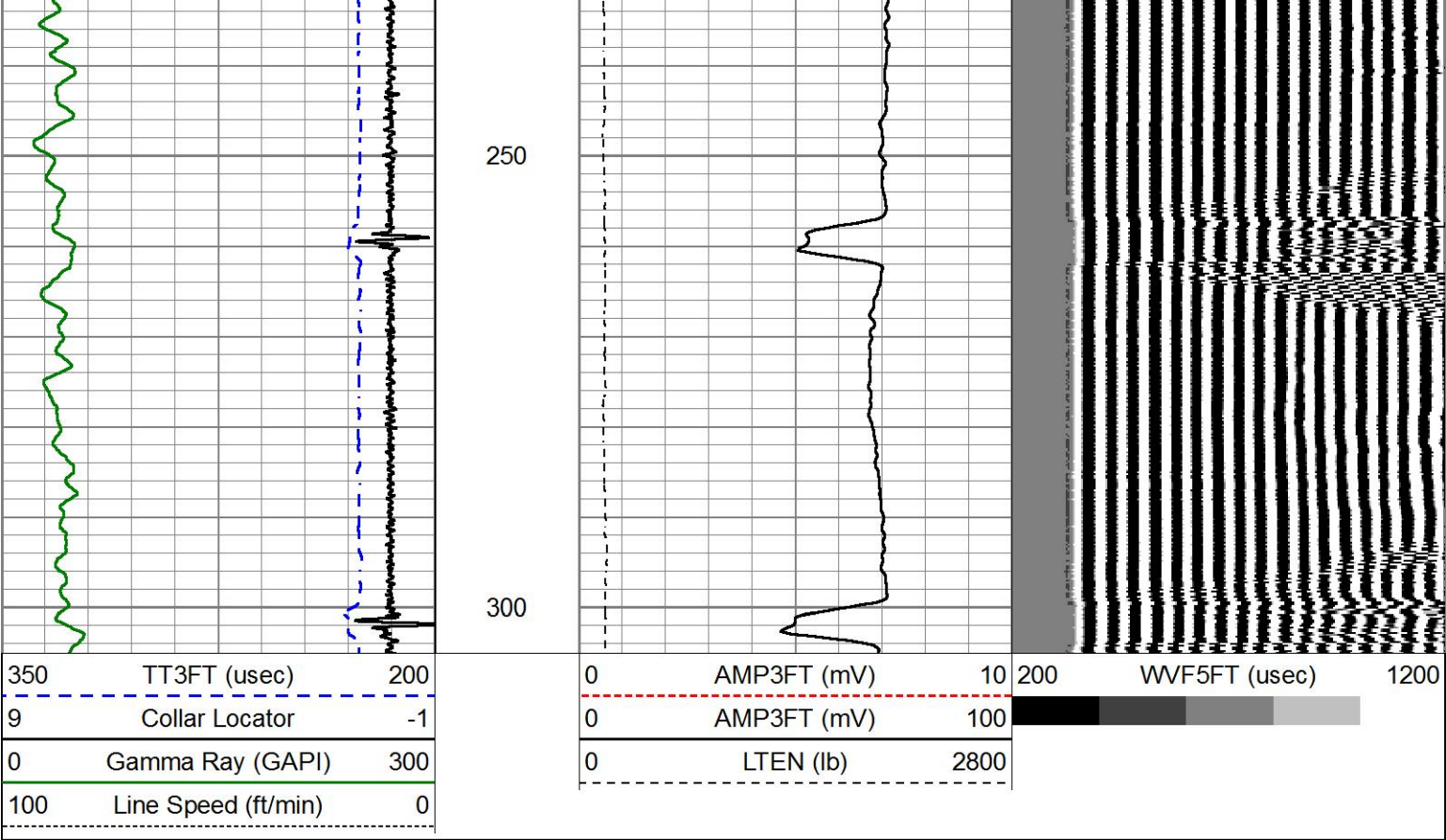
5" = 100'

Database File true_buckskin 5-64 15-16-1bhz.db
Dataset Pathname FREE_PIPE_PASS1
Presentation Format cbl_dr
Dataset Creation Wed Aug 15 14:54:09 2018
Charted by Depth in Feet scaled 1:240

350	TT3FT (usec)	200
9	Collar Locator	-1
0	Gamma Ray (GAPI)	300
100	Line Speed (ft/min)	0

0	AMP3FT (mV)	10	200	WVF5FT (usec)	1200
0	AMP3FT (mV)	100			
0	LTEN (lb)	2800			

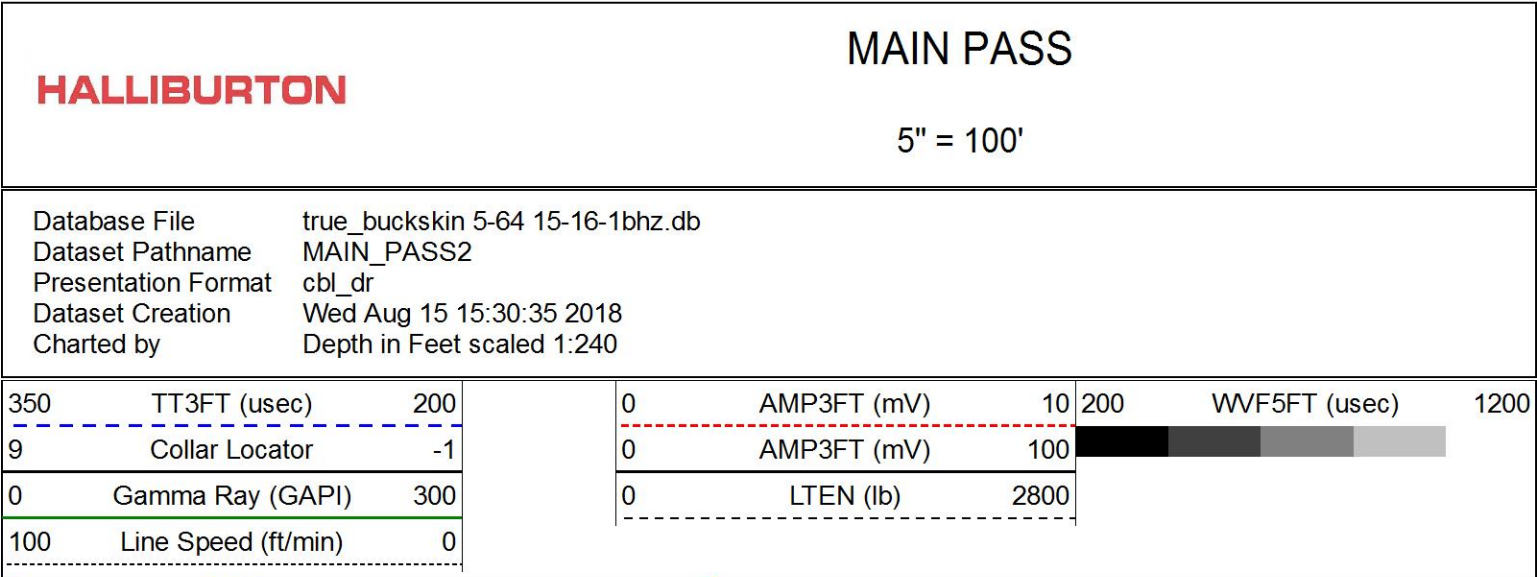




FREE PIPE PASS

HALLIBURTON

5" = 100'

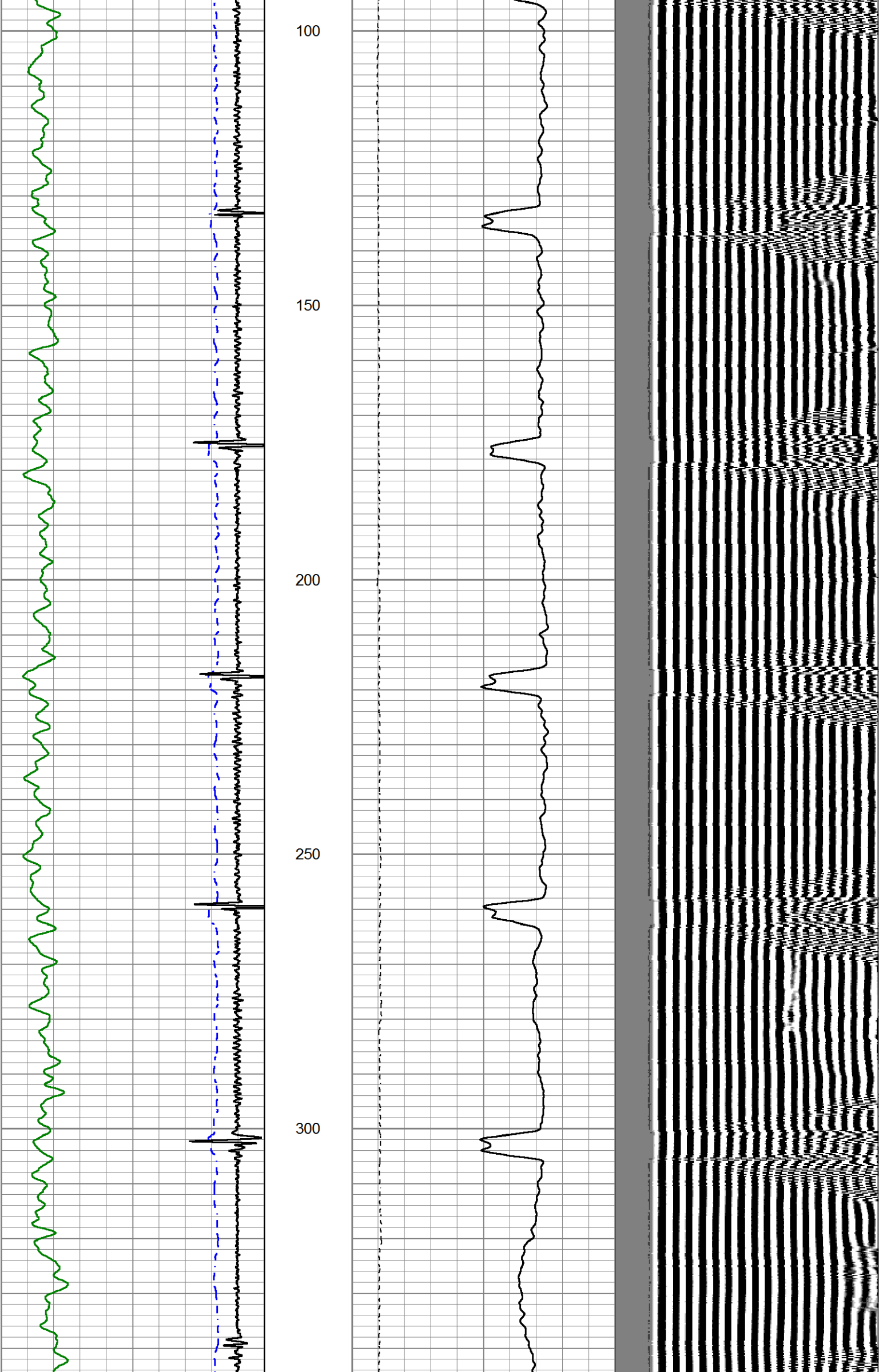


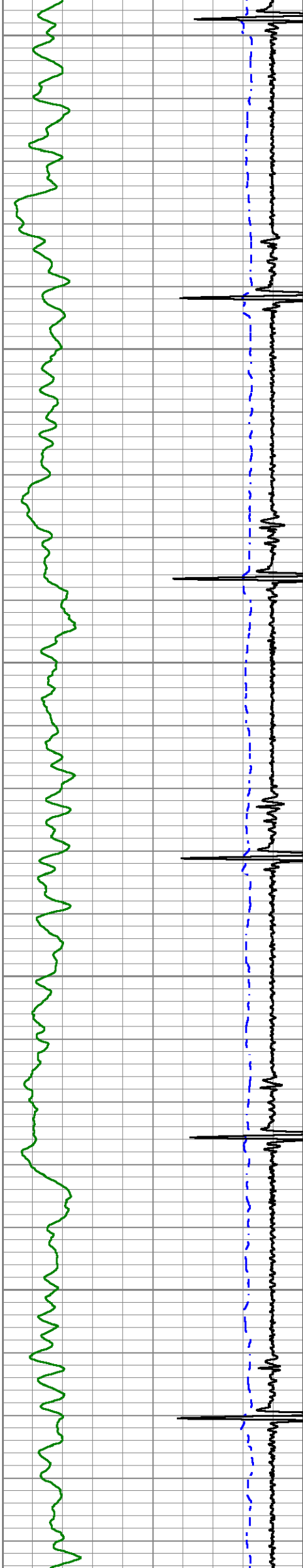
MAIN PASS

HALLIBURTON

5" = 100'

Database File true_buckskin 5-64 15-16-1bhz.db
Dataset Pathname MAIN_PASS2
Presentation Format cbl_dr
Dataset Creation Wed Aug 15 15:30:35 2018
Charted by Depth in Feet scaled 1:240





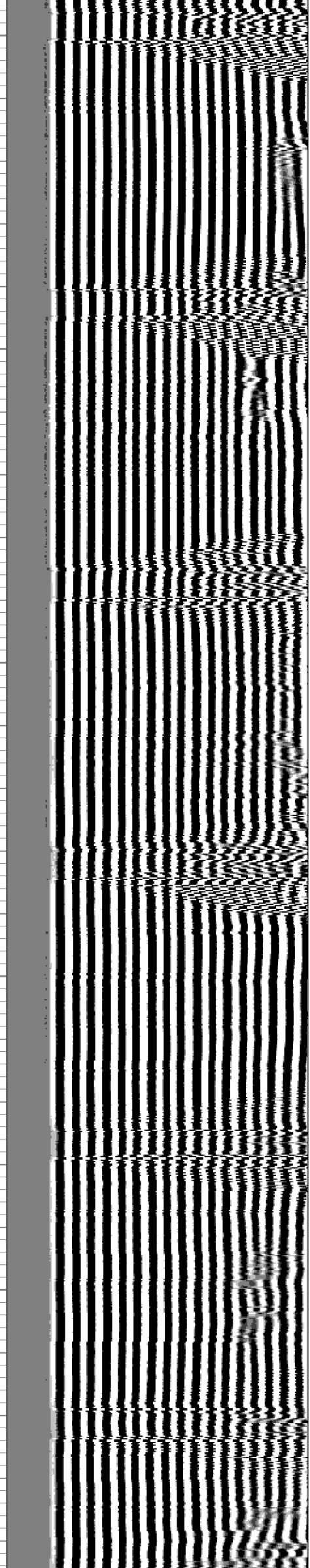
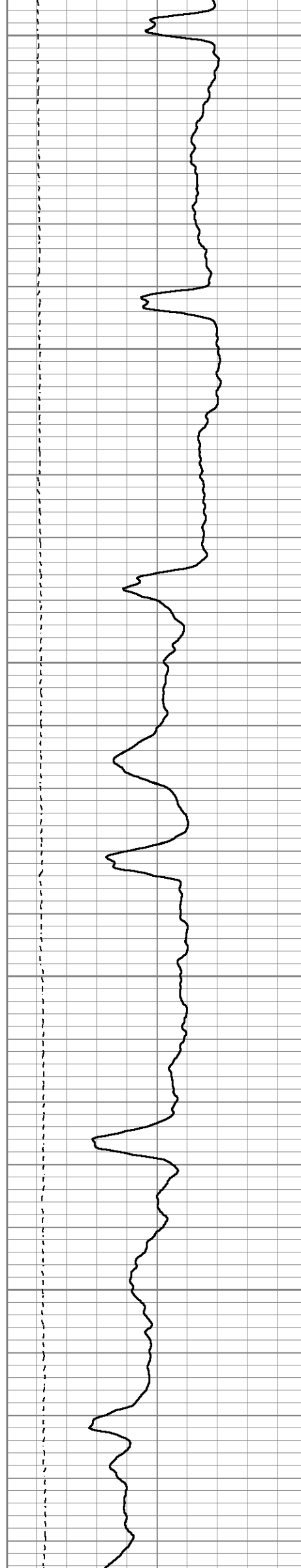
350

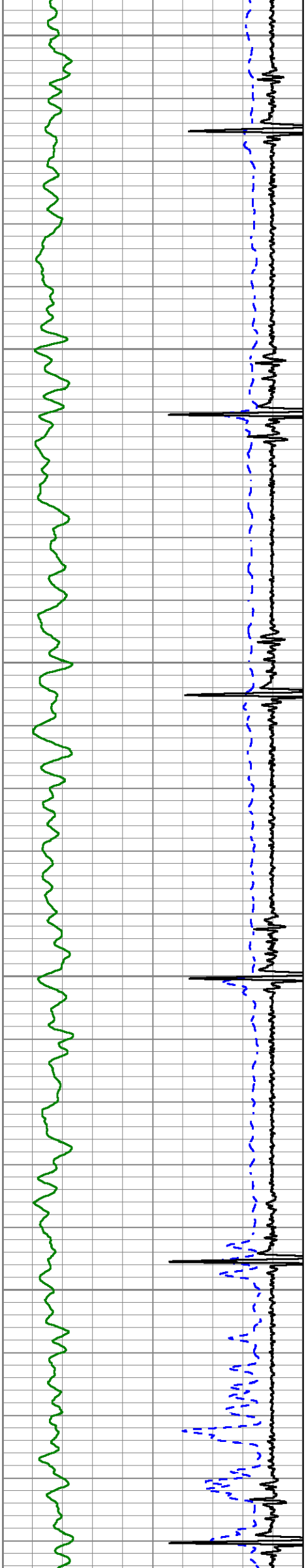
400

450

500

550





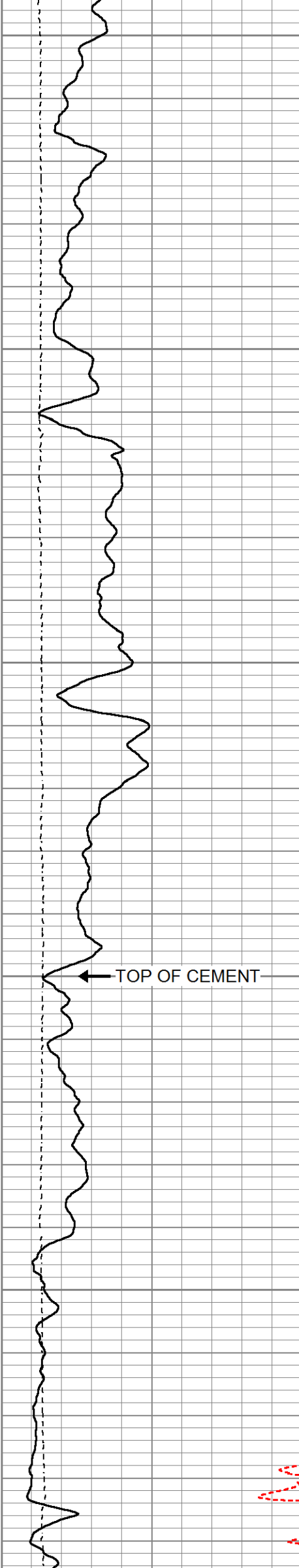
600

650

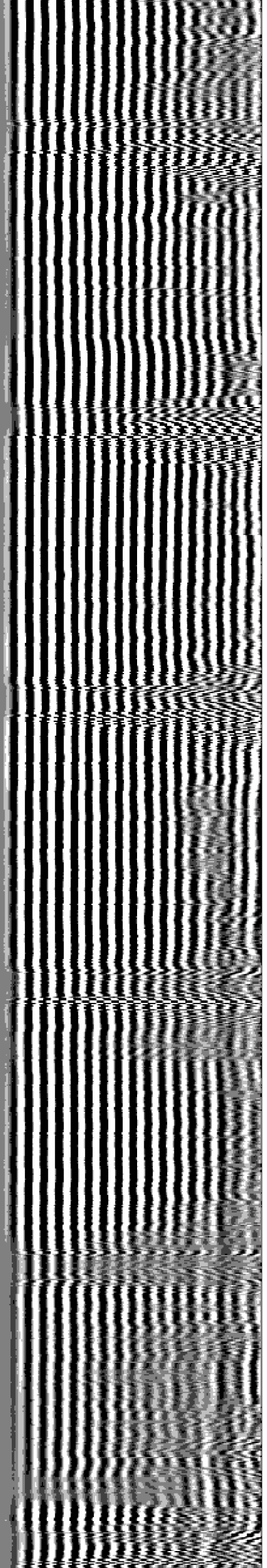
700

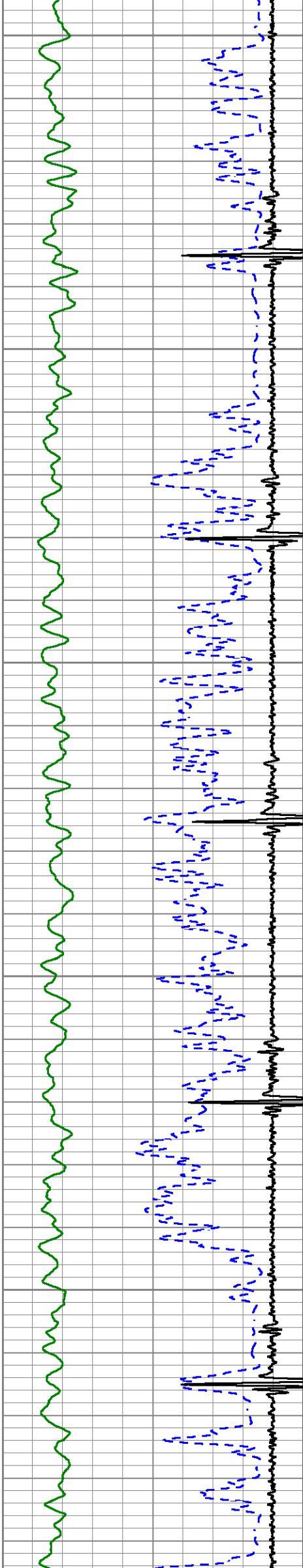
750

800



TOP OF CEMENT





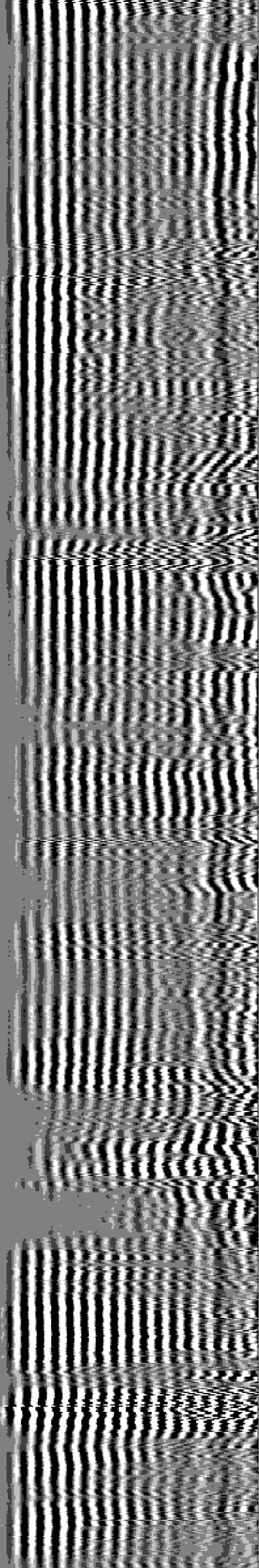
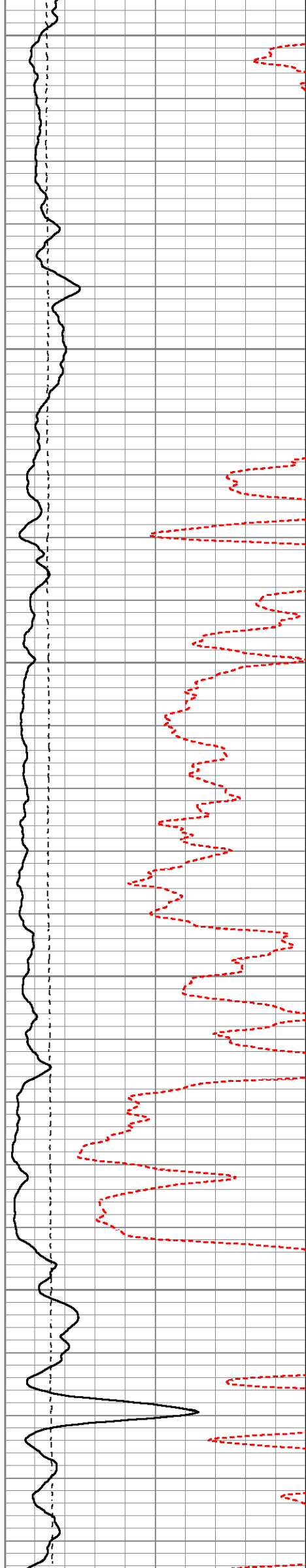
850

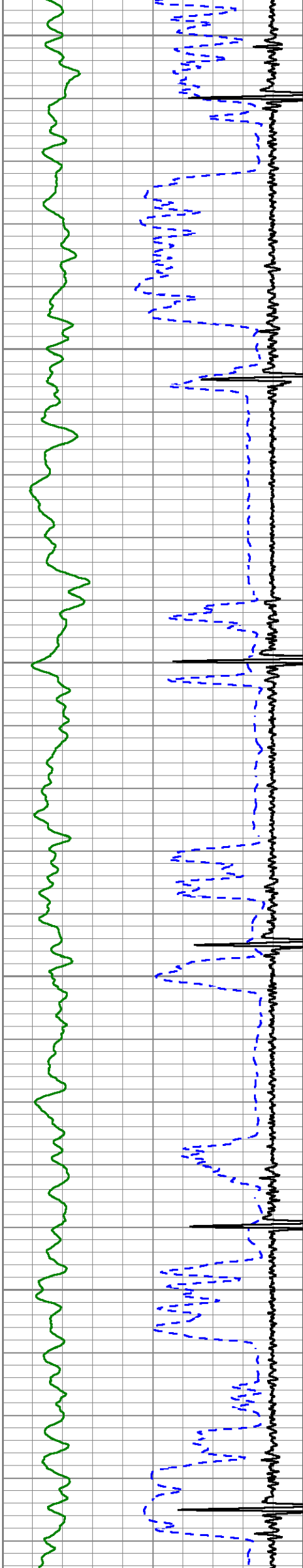
900

950

1000

1050





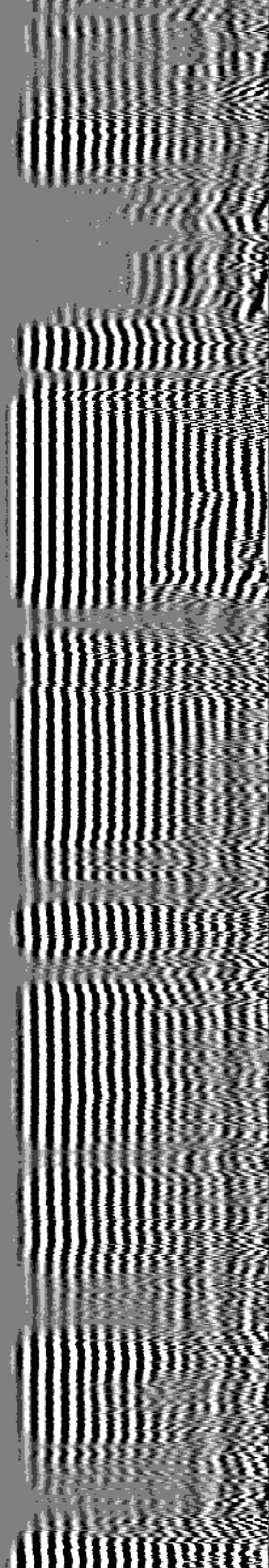
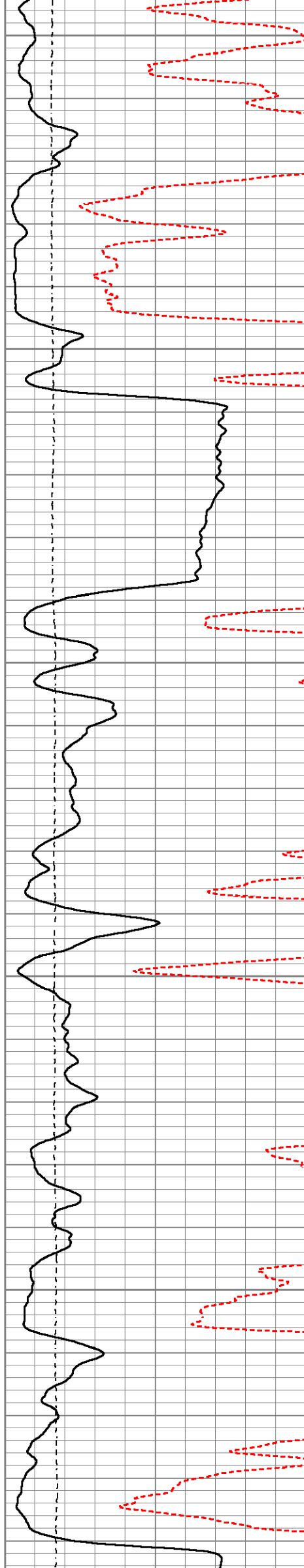
1100

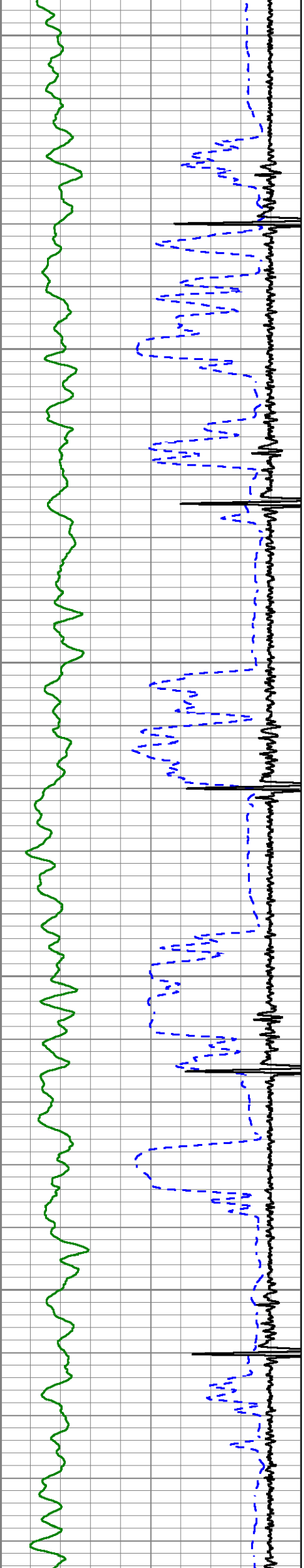
1150

1200

1250

1300





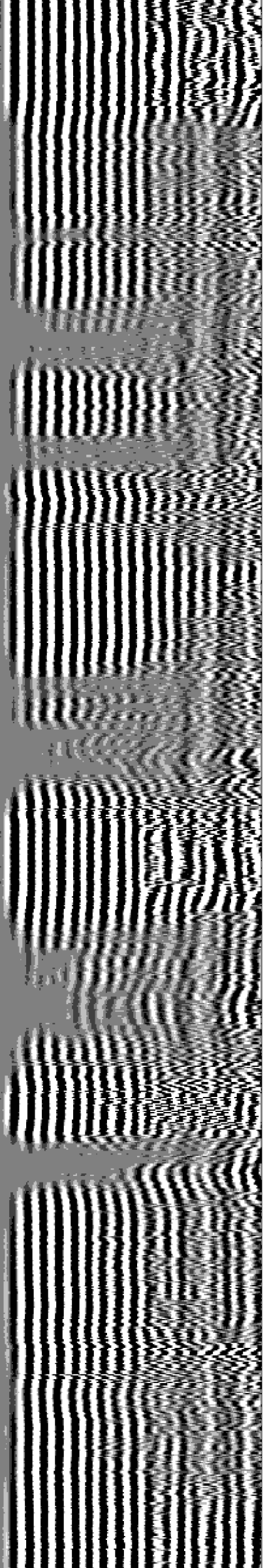
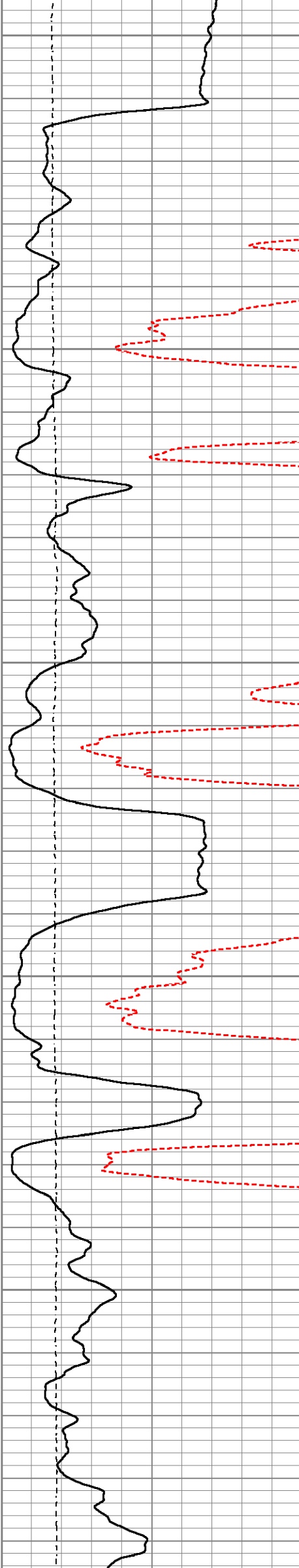
1350

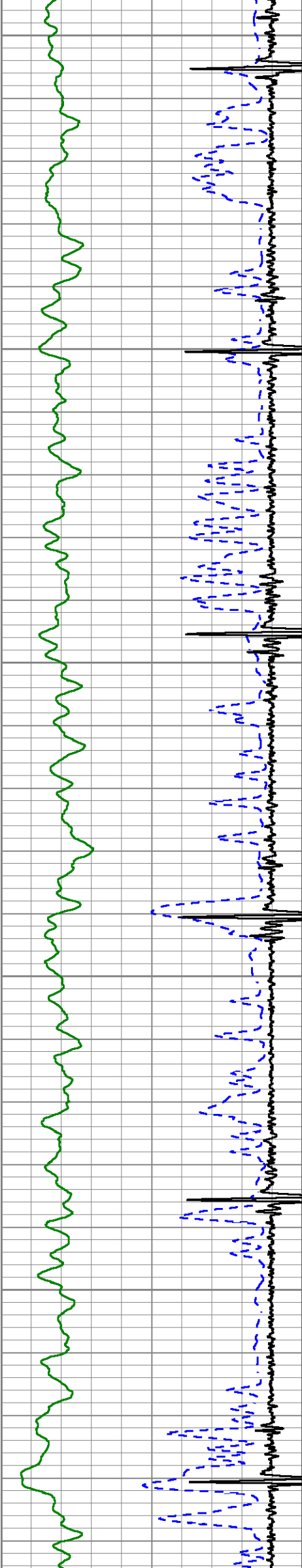
1400

1450

1500

1550





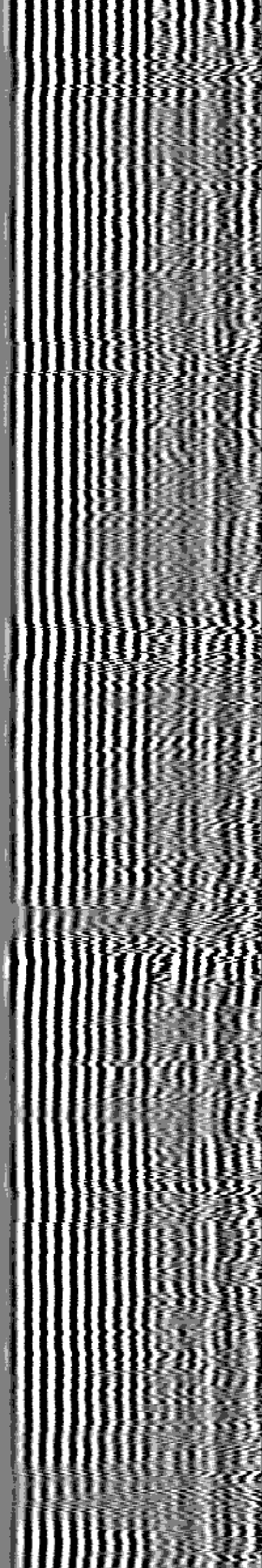
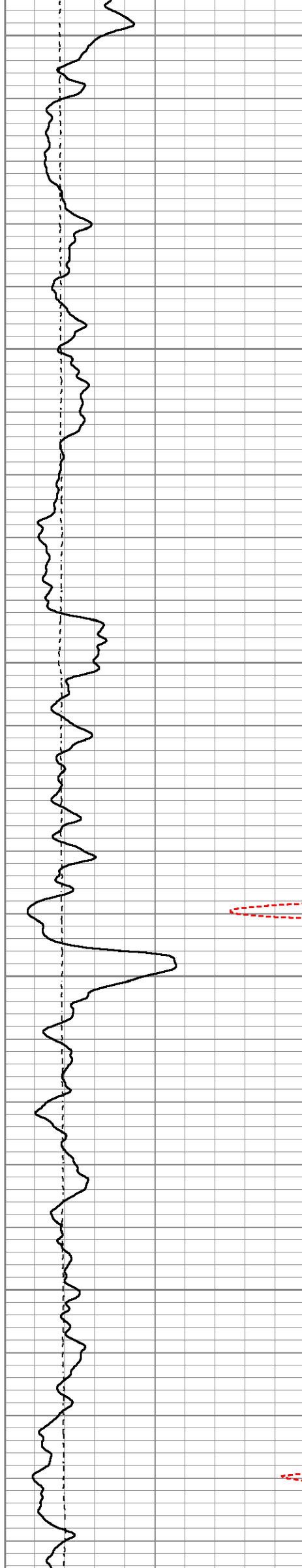
1600

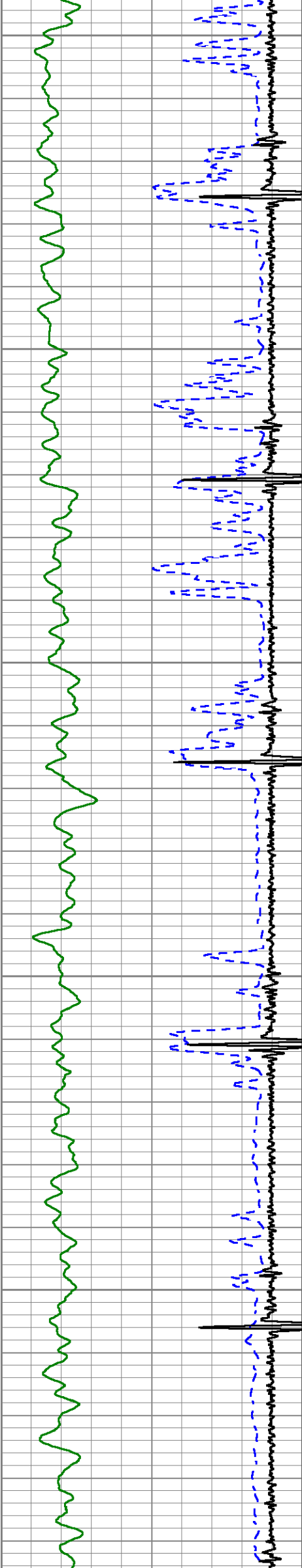
1650

1700

1750

1800





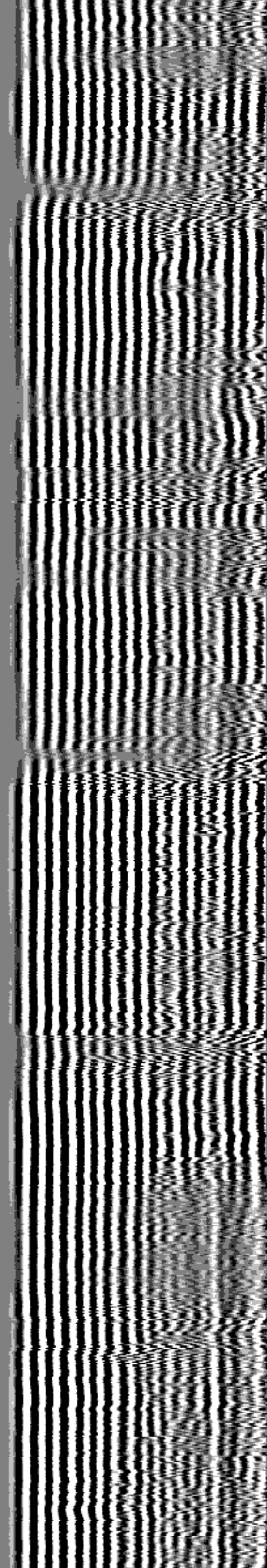
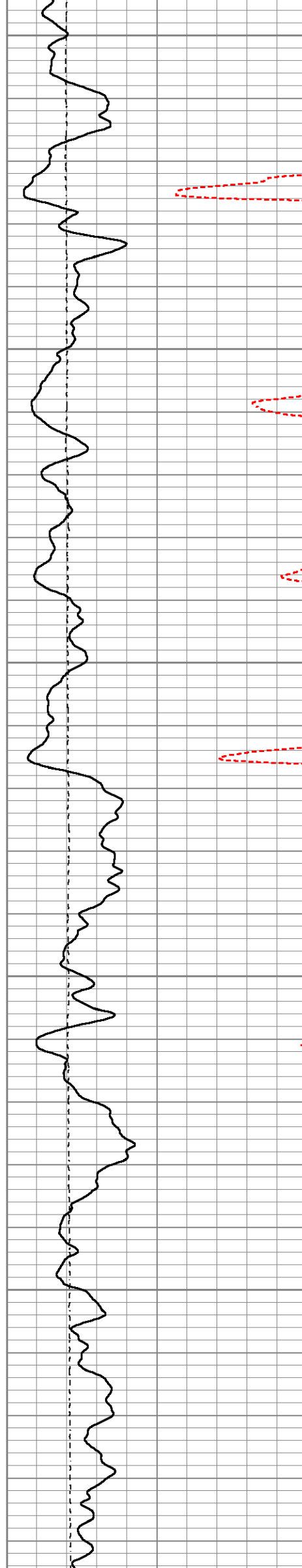
1850

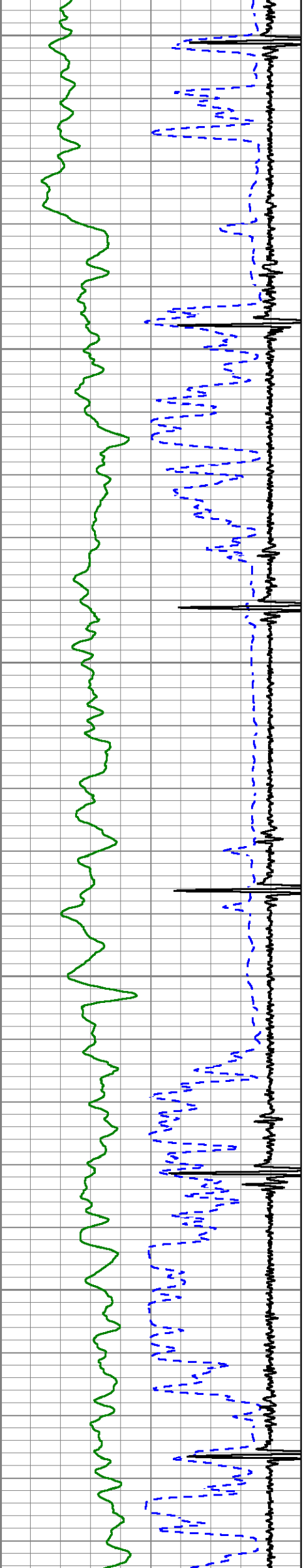
1900

1950

2000

2050





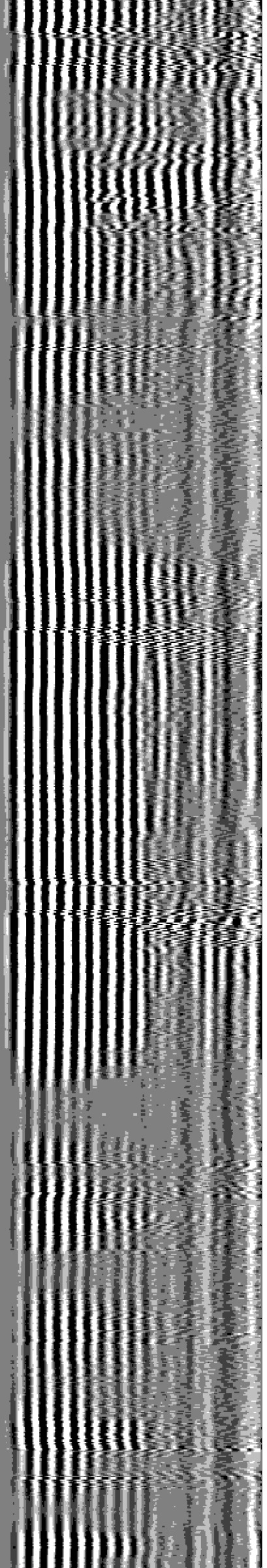
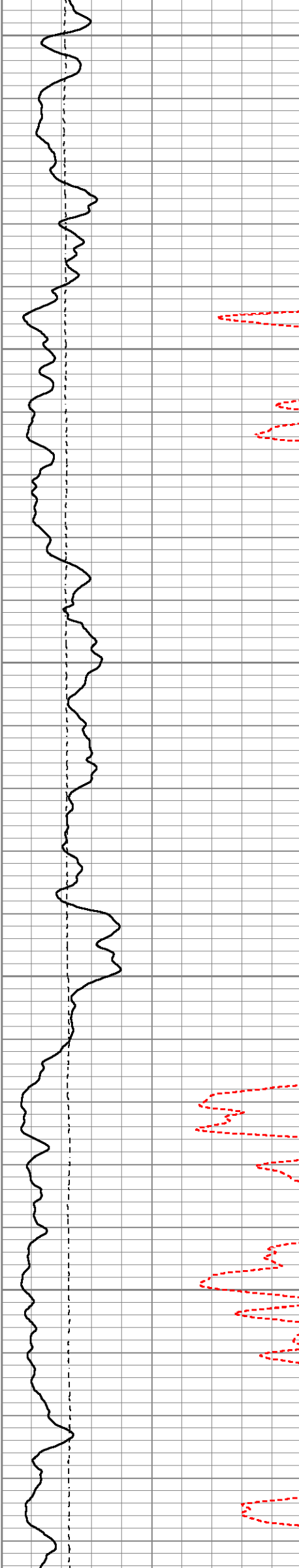
2100

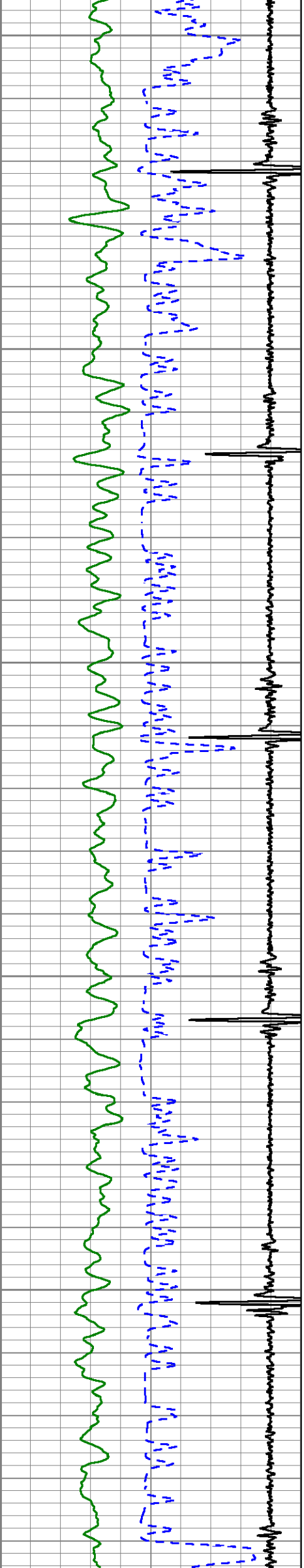
2150

2200

2250

2300





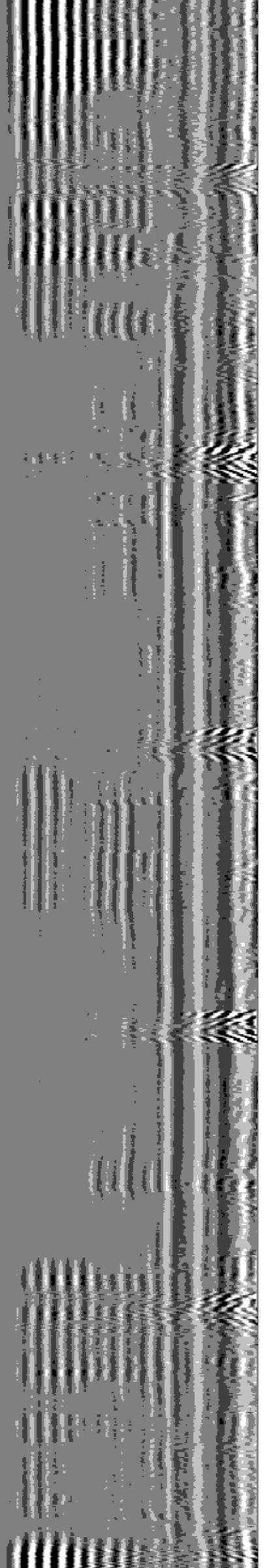
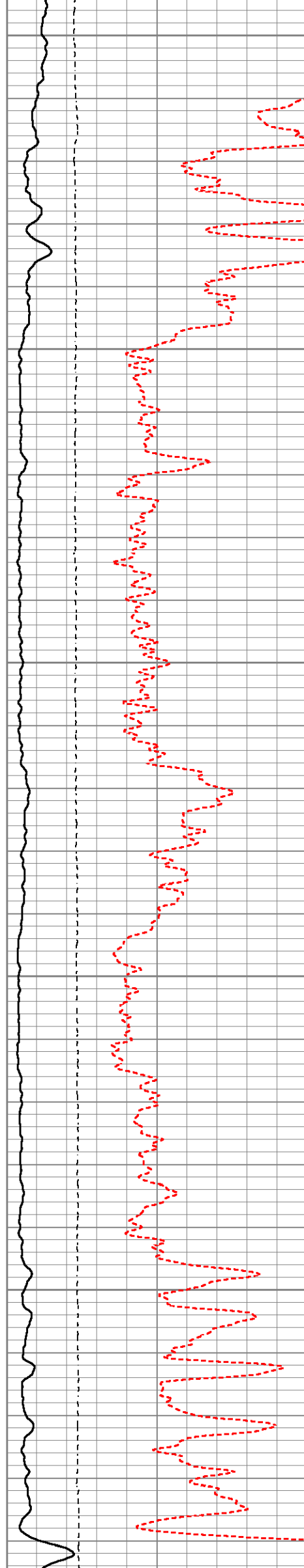
2350

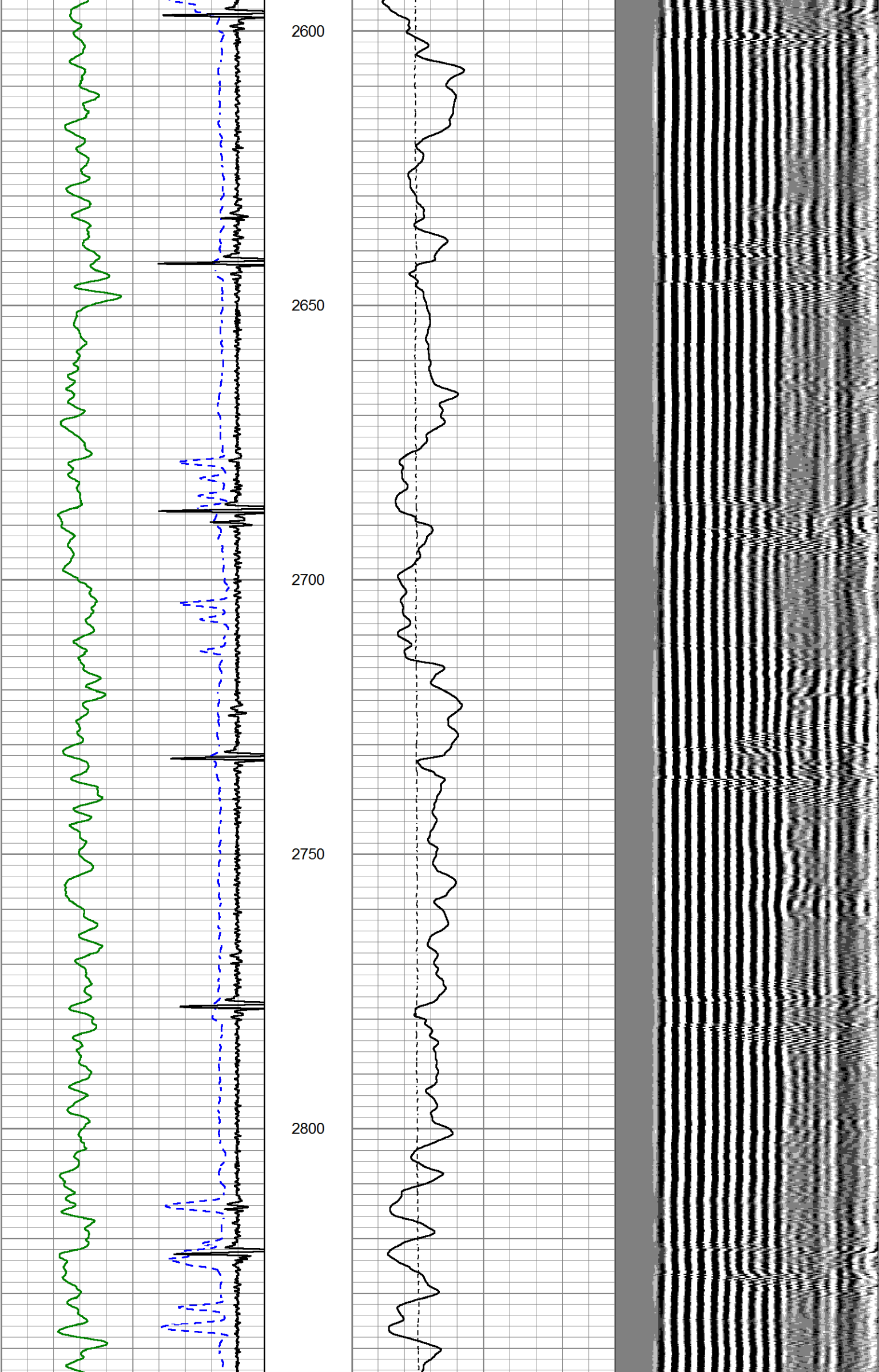
2400

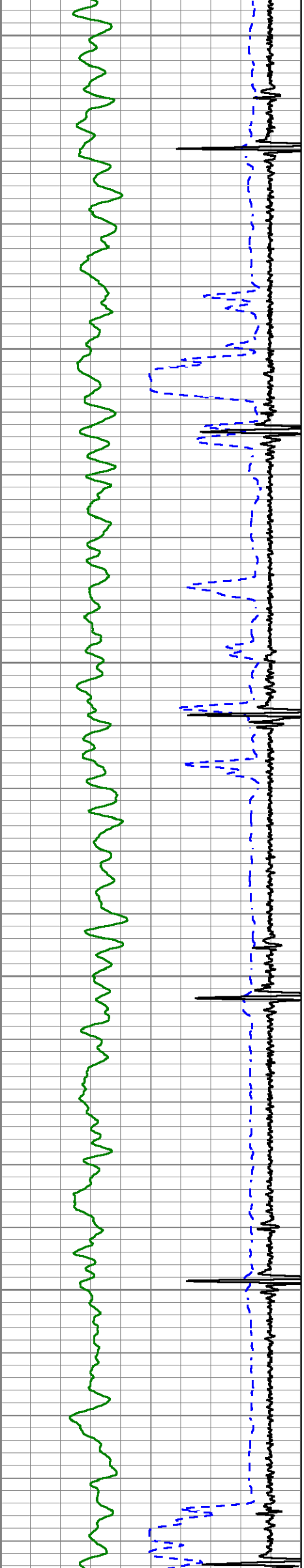
2450

2500

2550







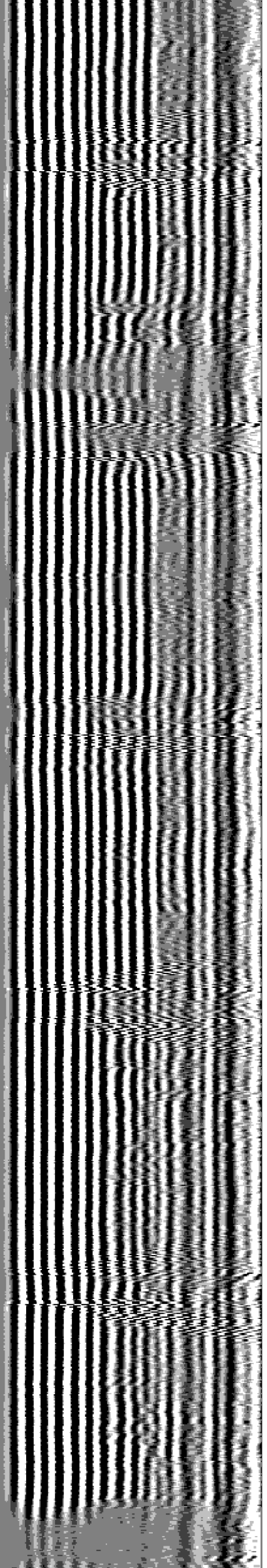
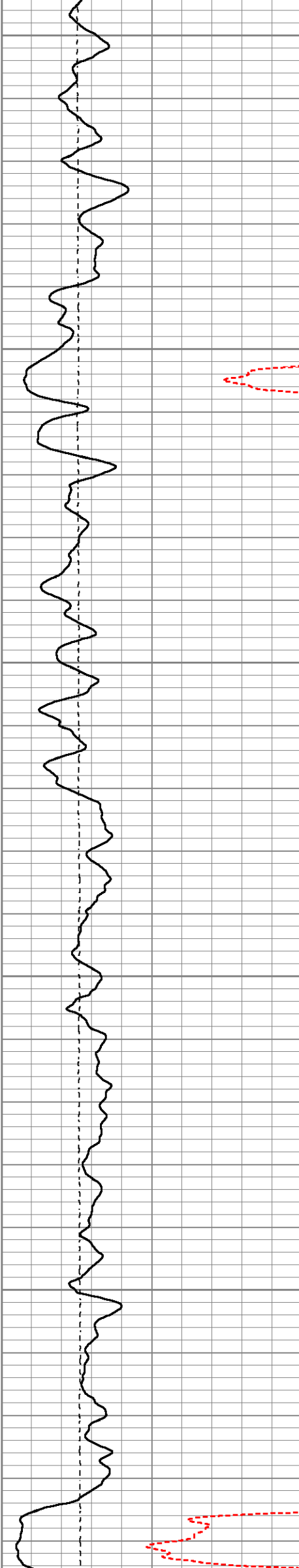
2850

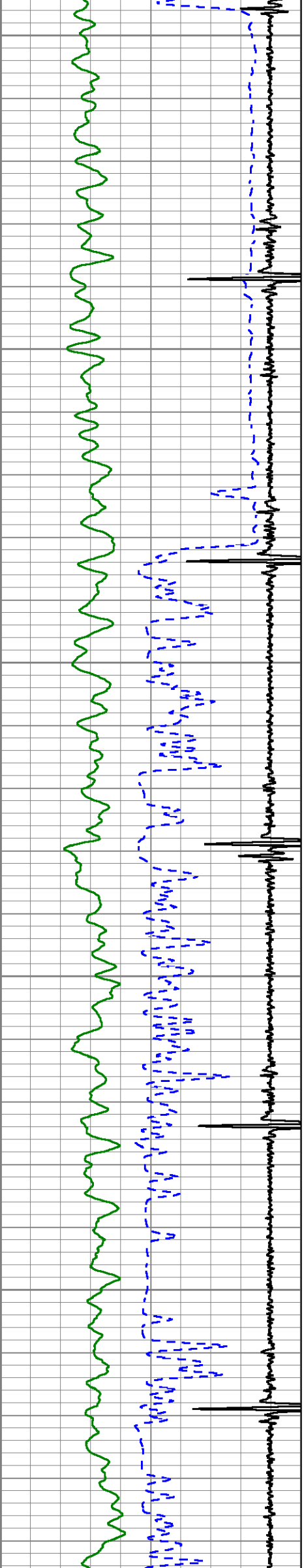
2900

2950

3000

3050





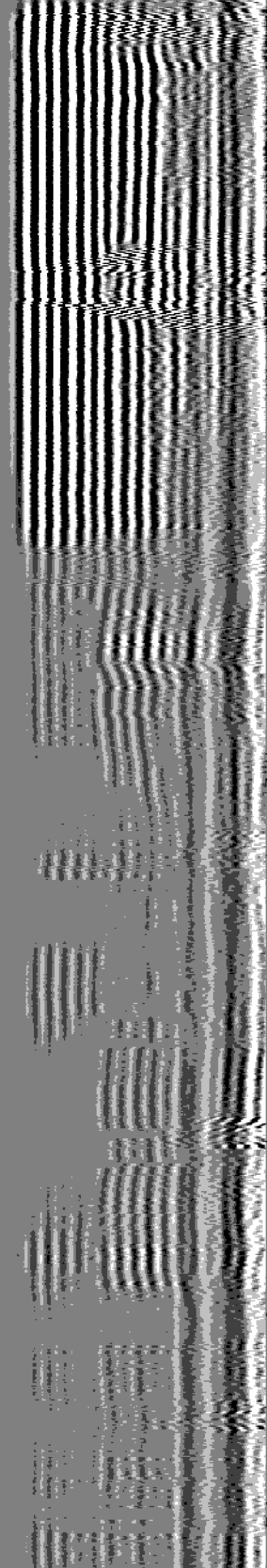
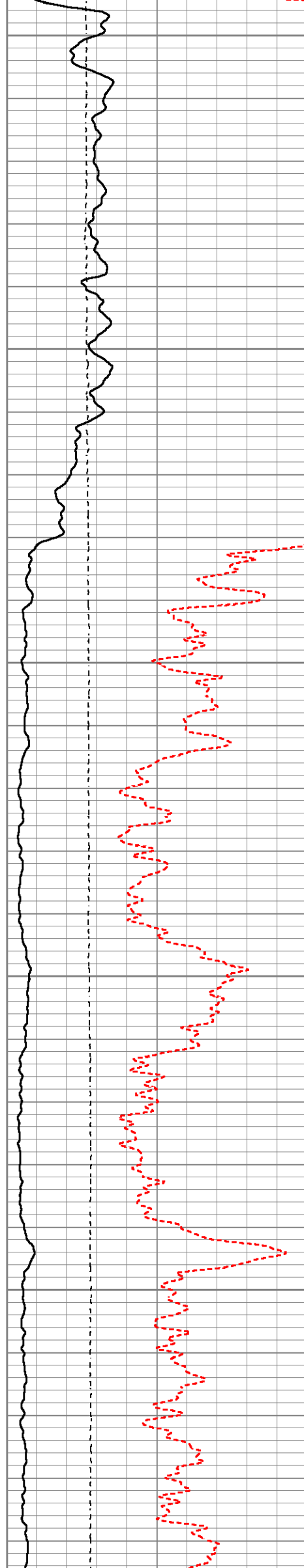
3100

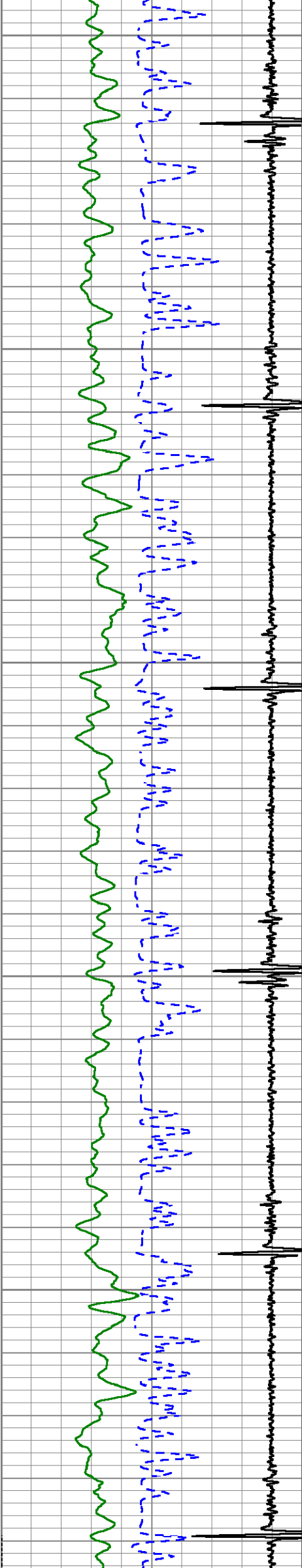
3150

3200

3250

3300





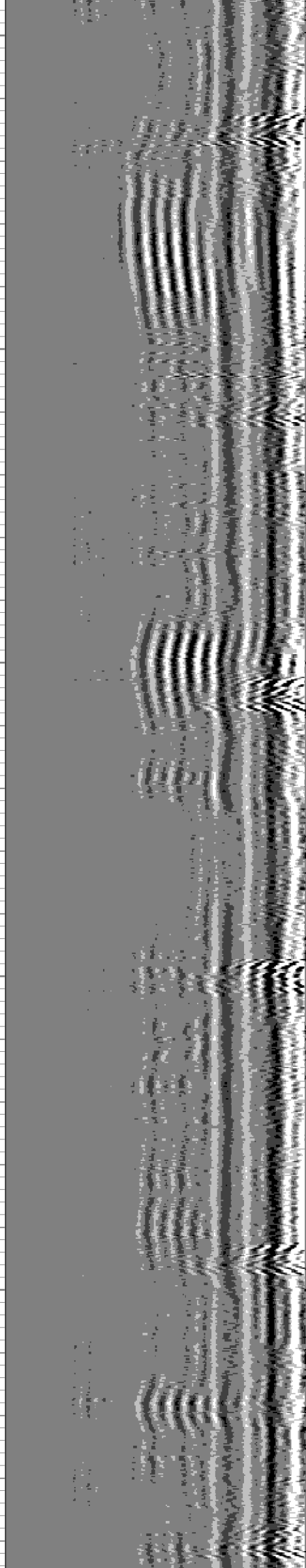
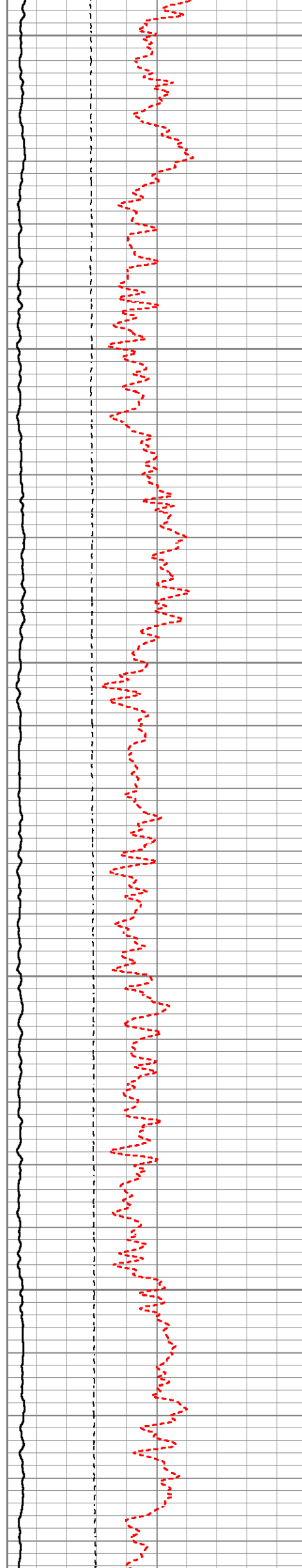
3350

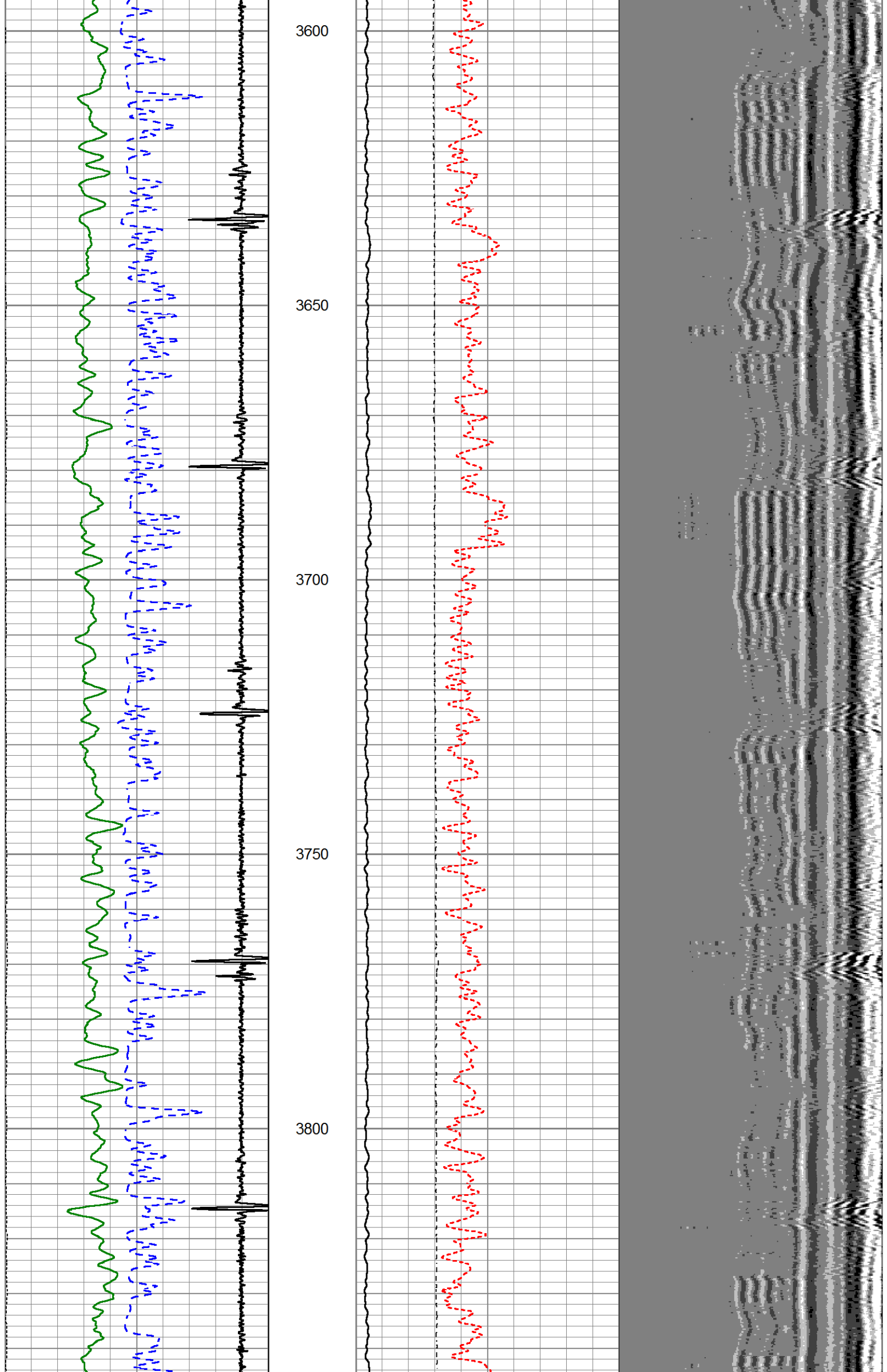
3400

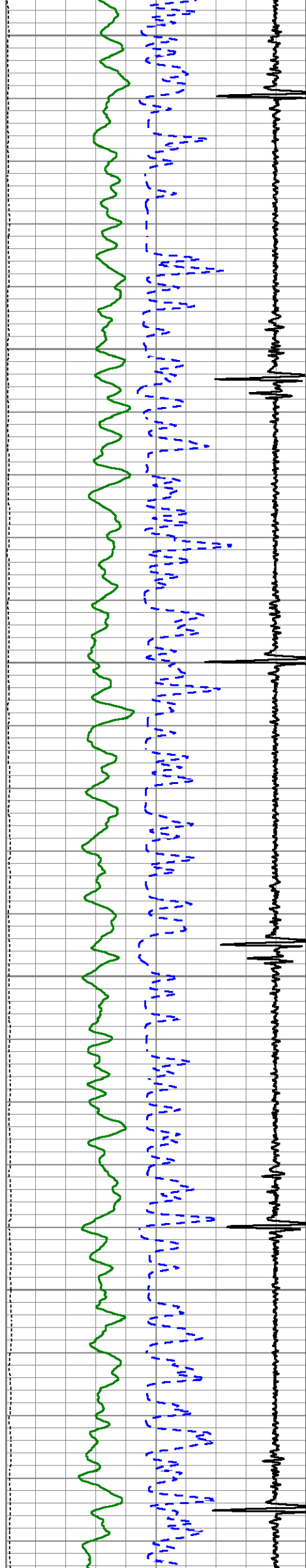
3450

3500

3550







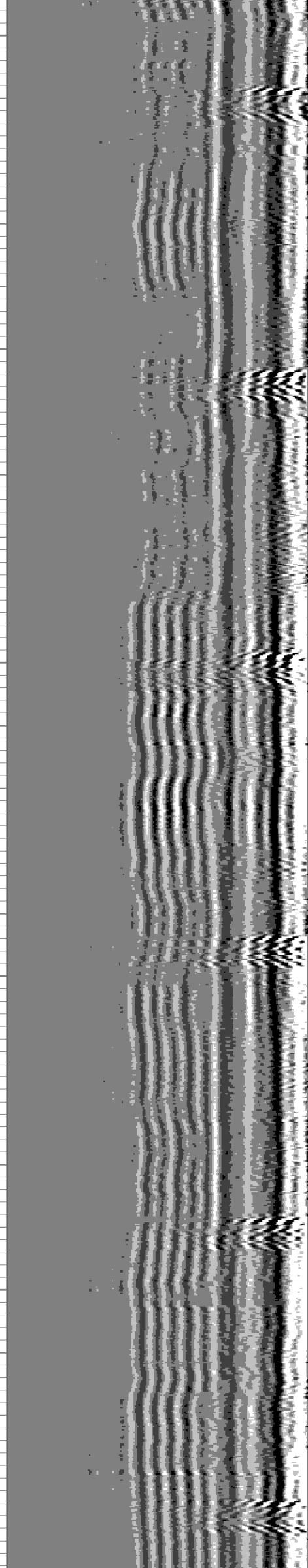
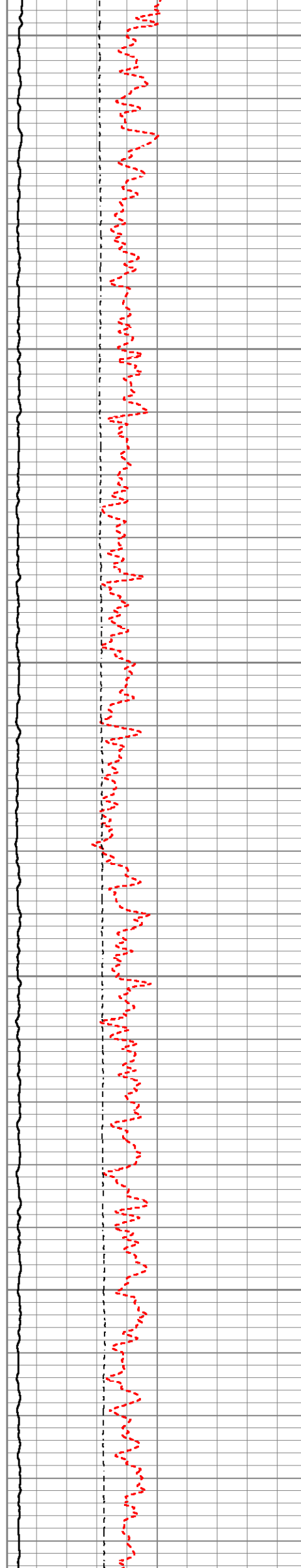
3850

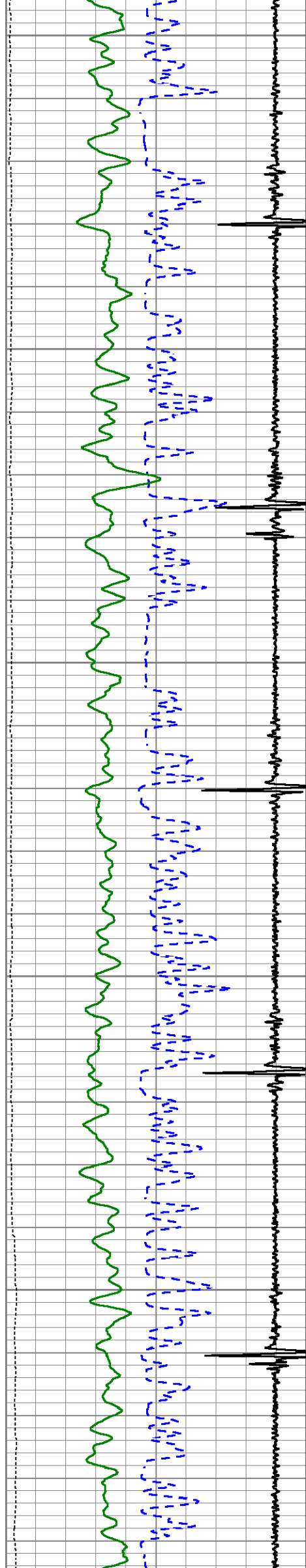
3900

3950

4000

4050





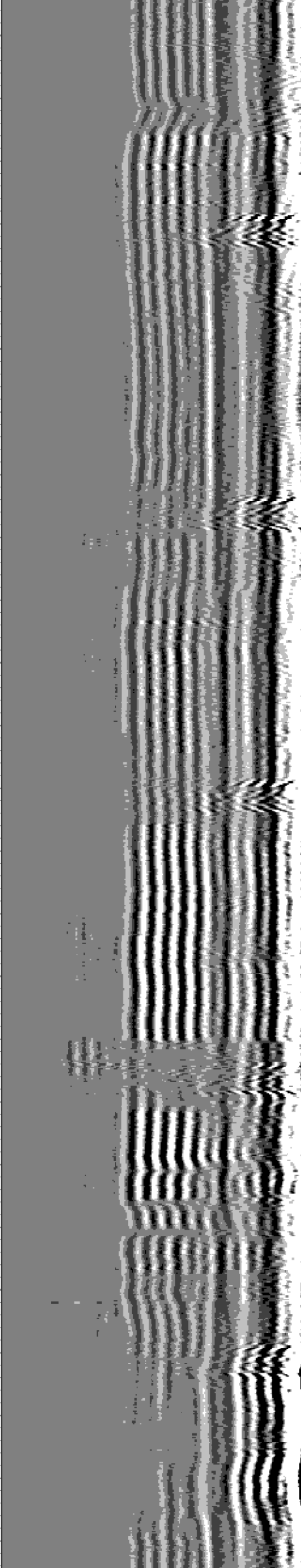
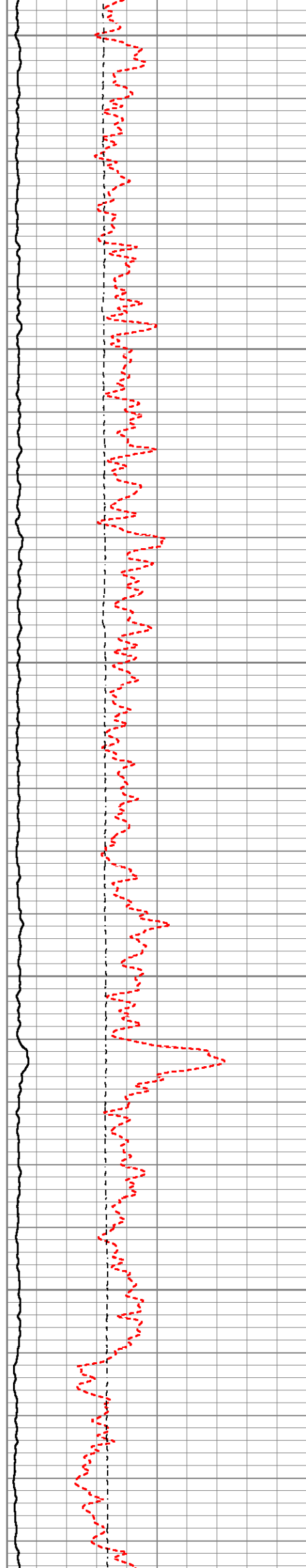
4100

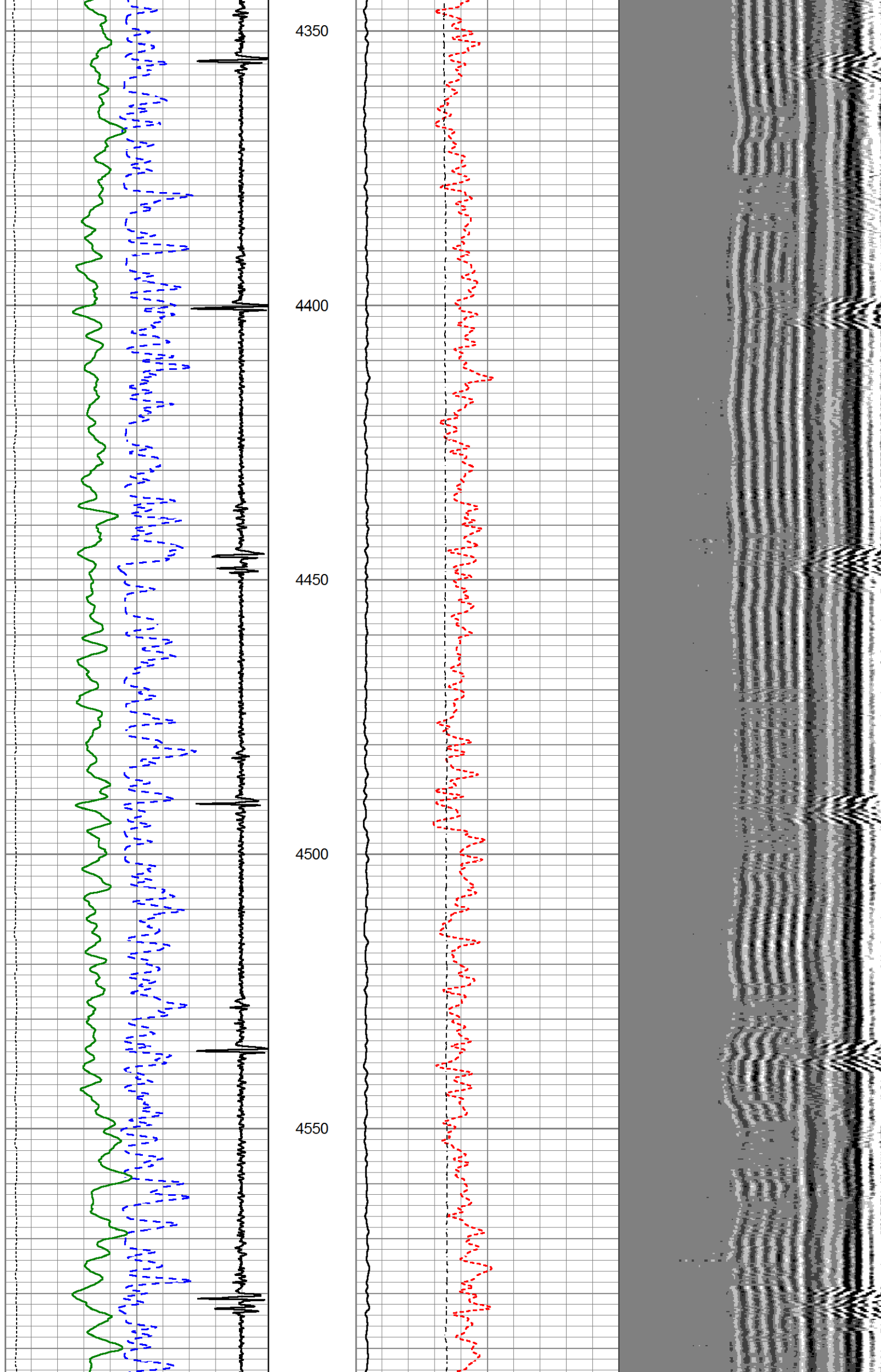
4150

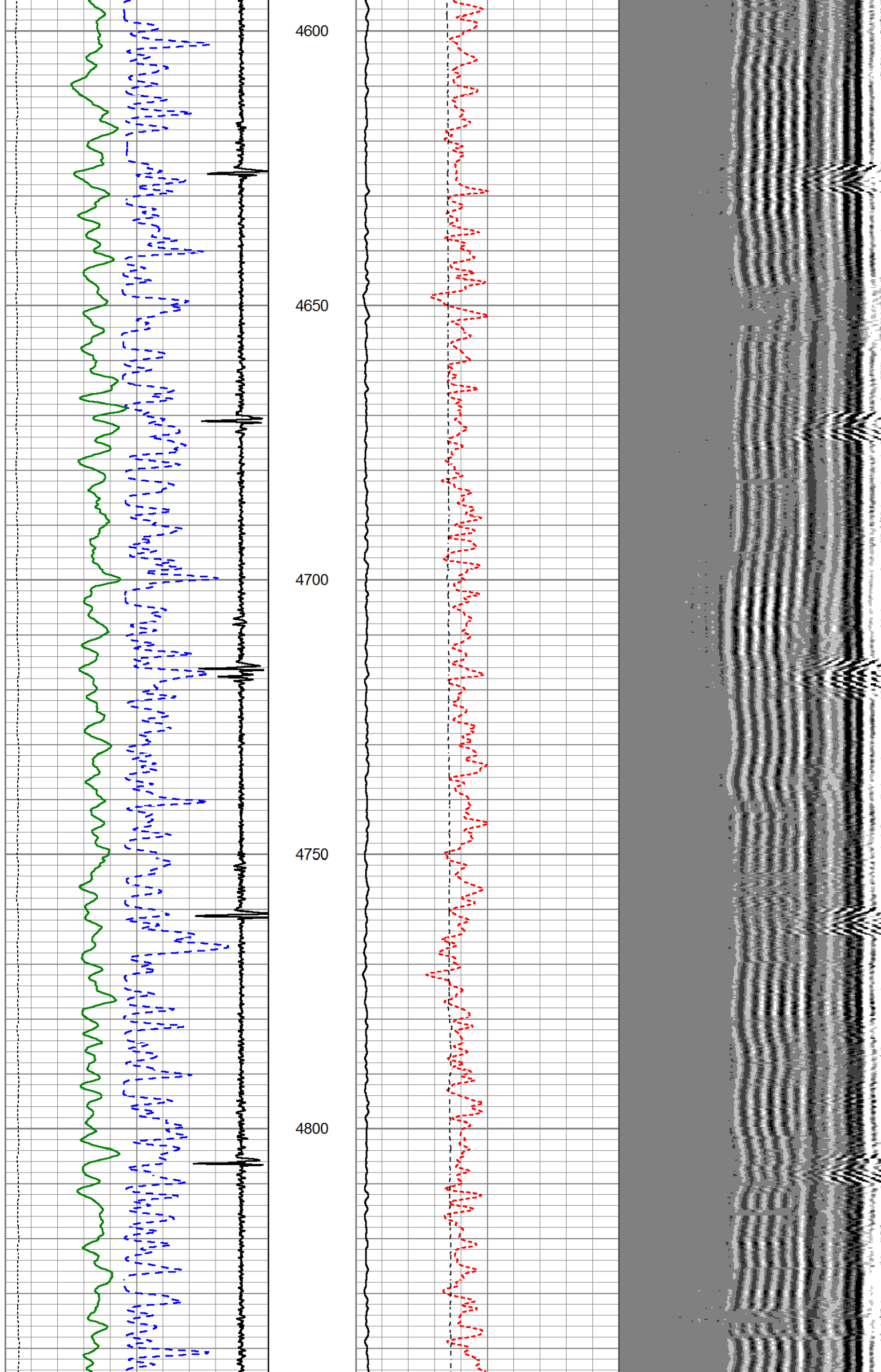
4200

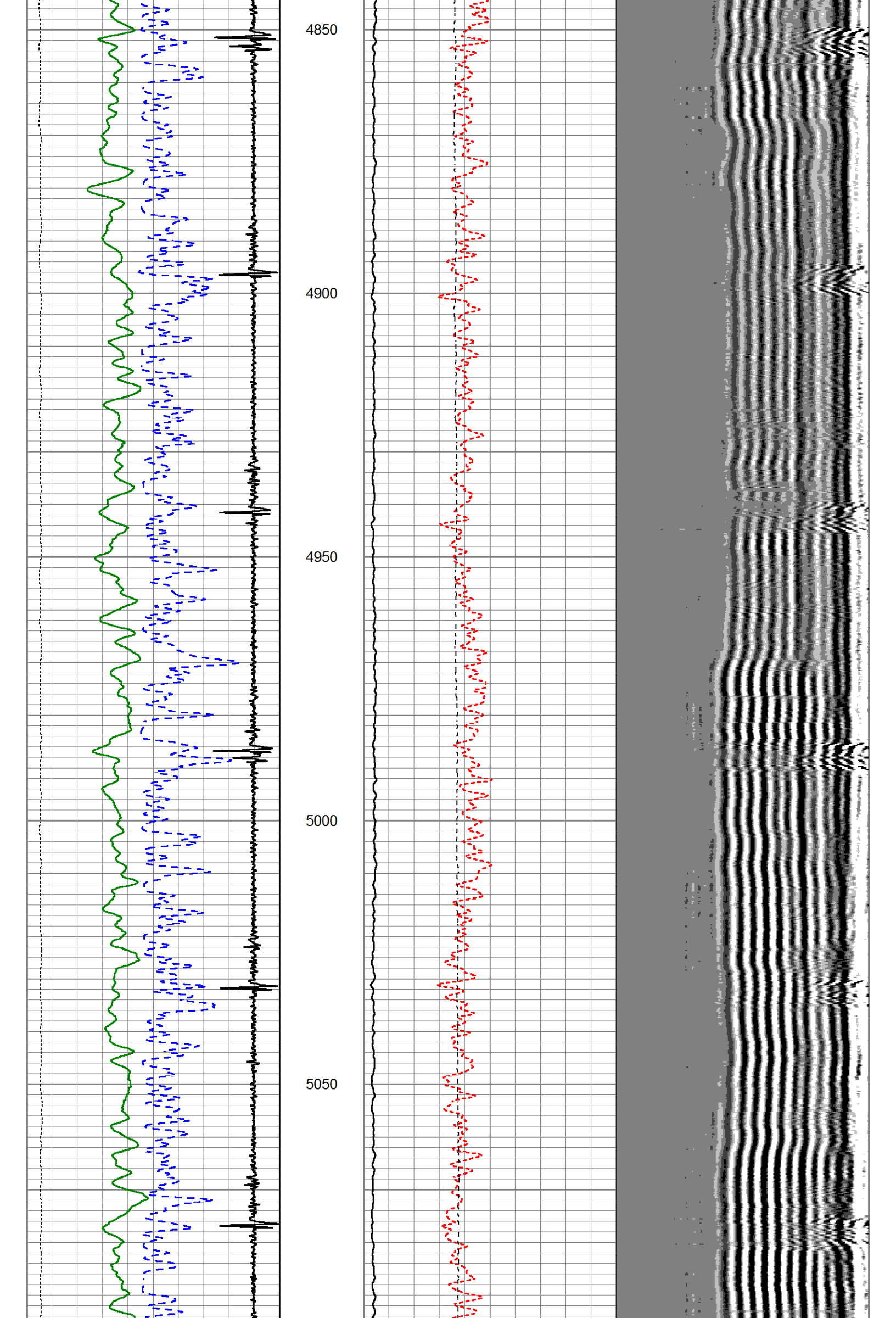
4250

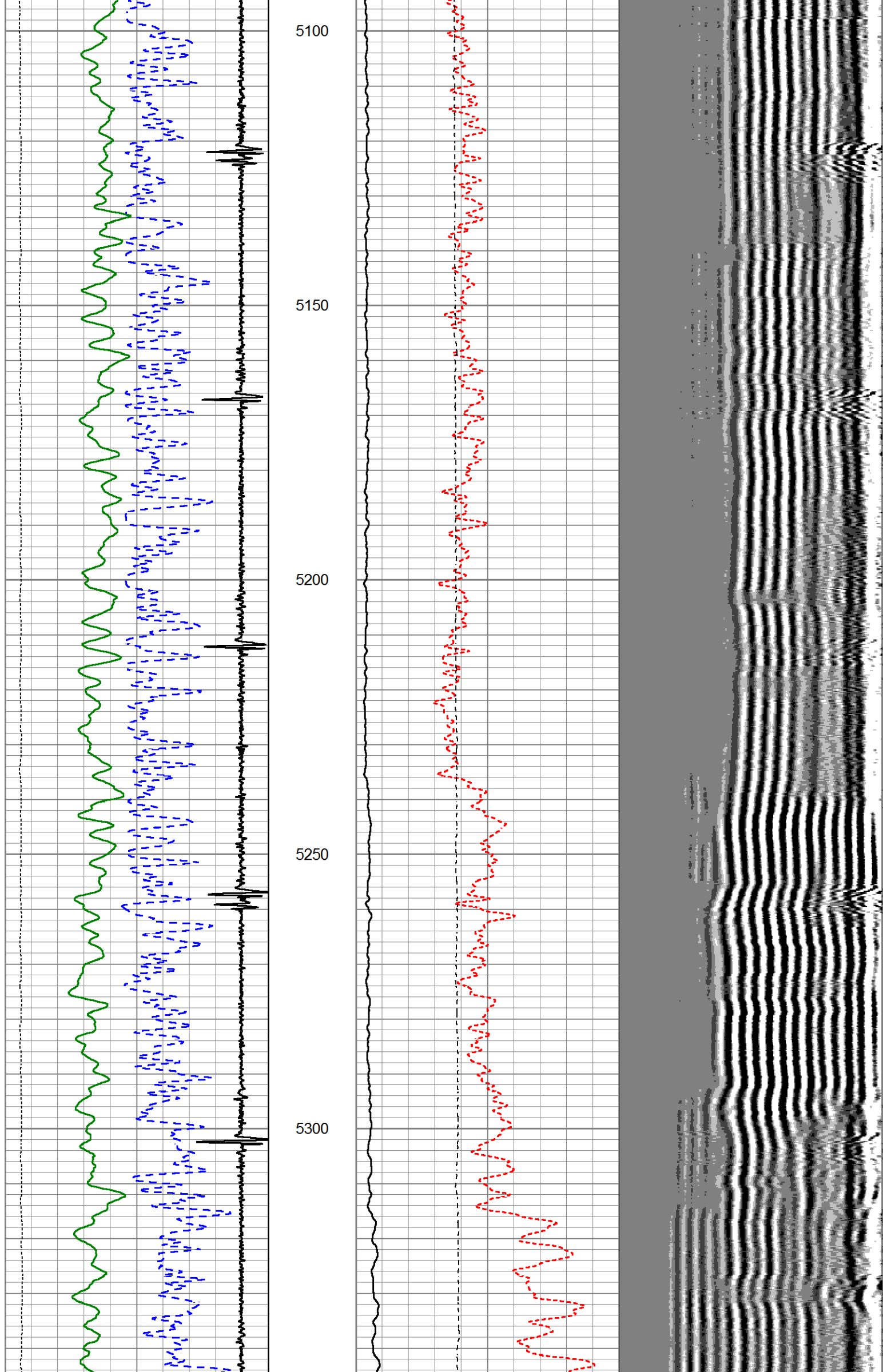
4300

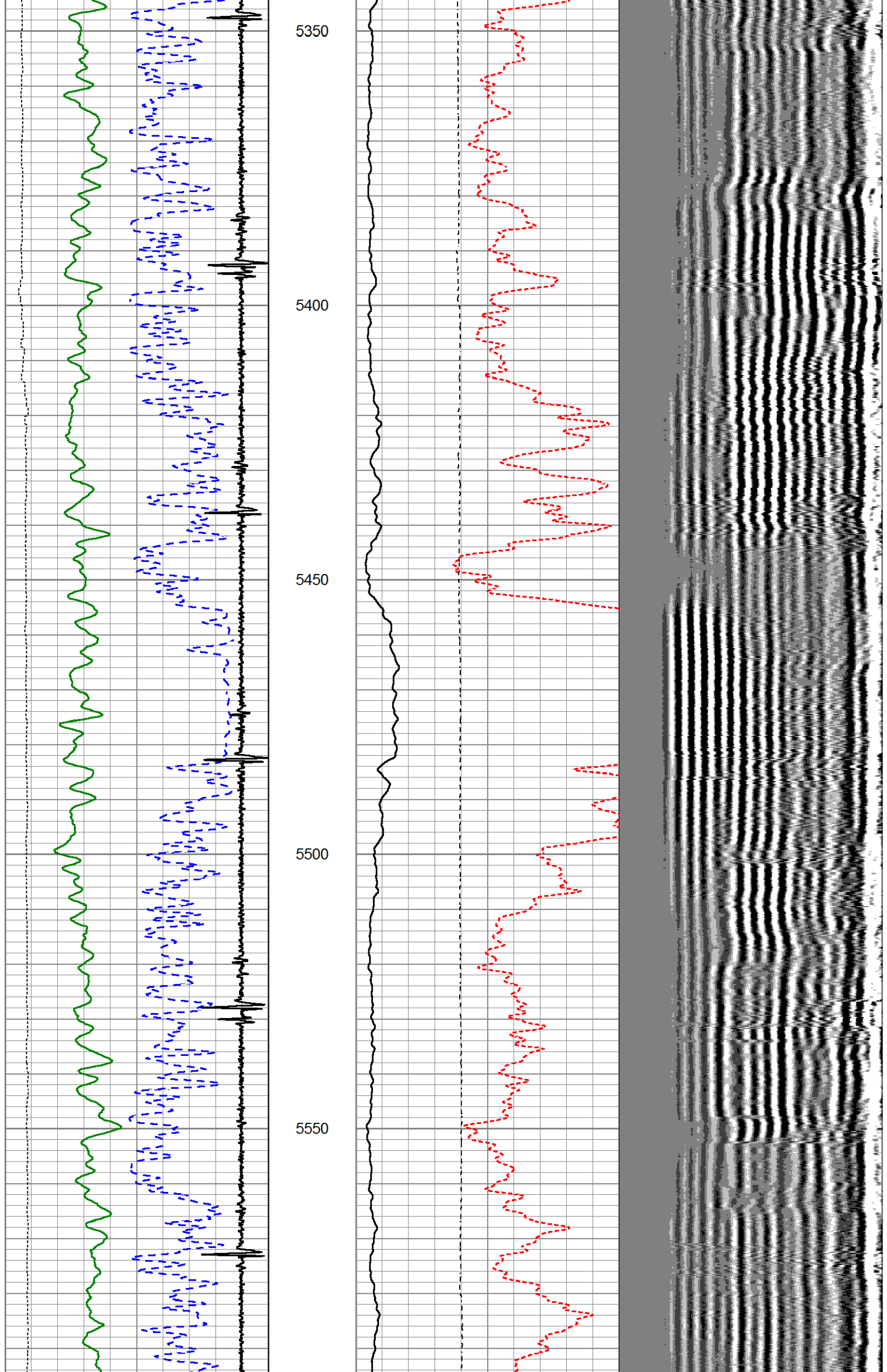


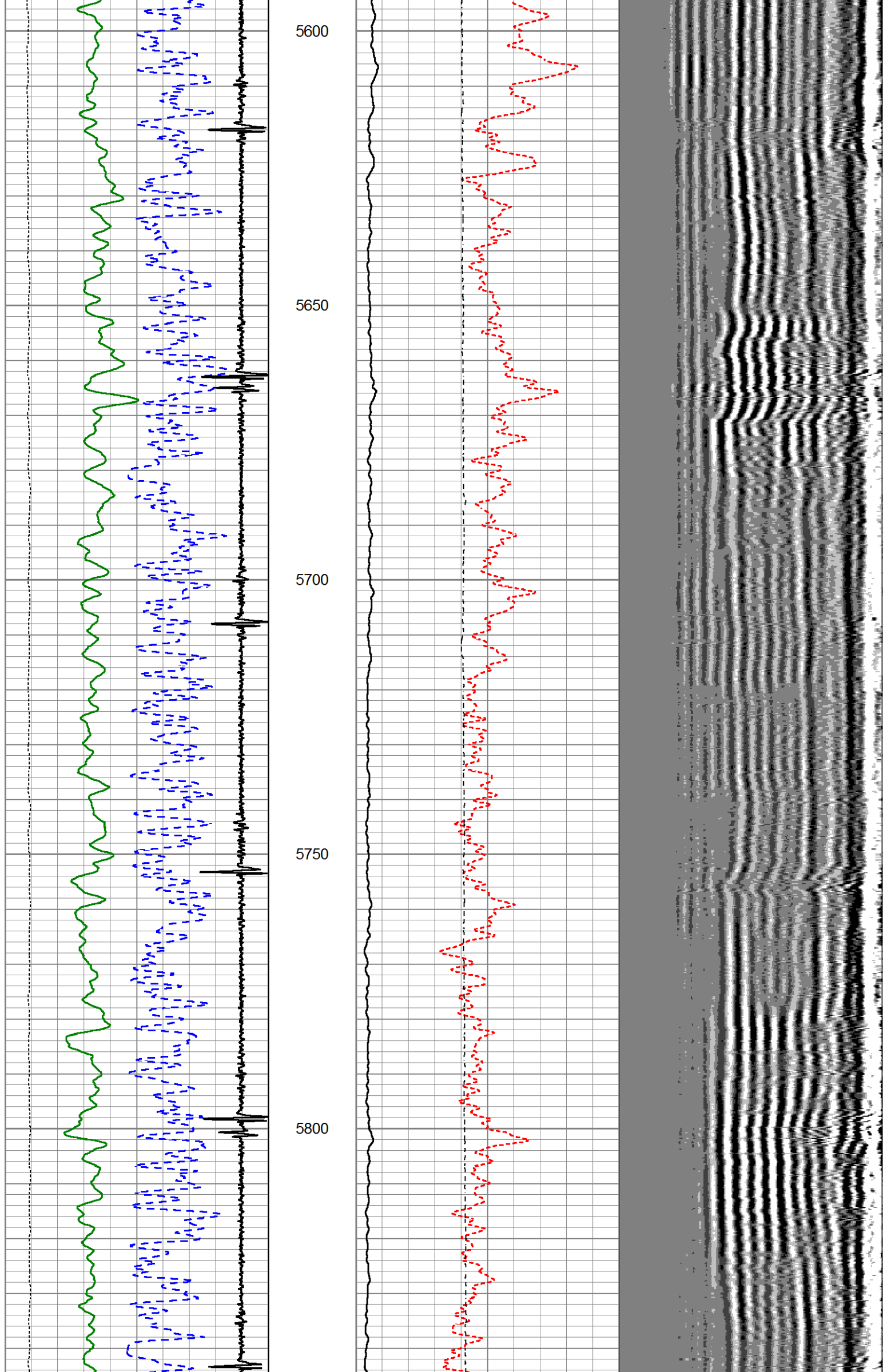


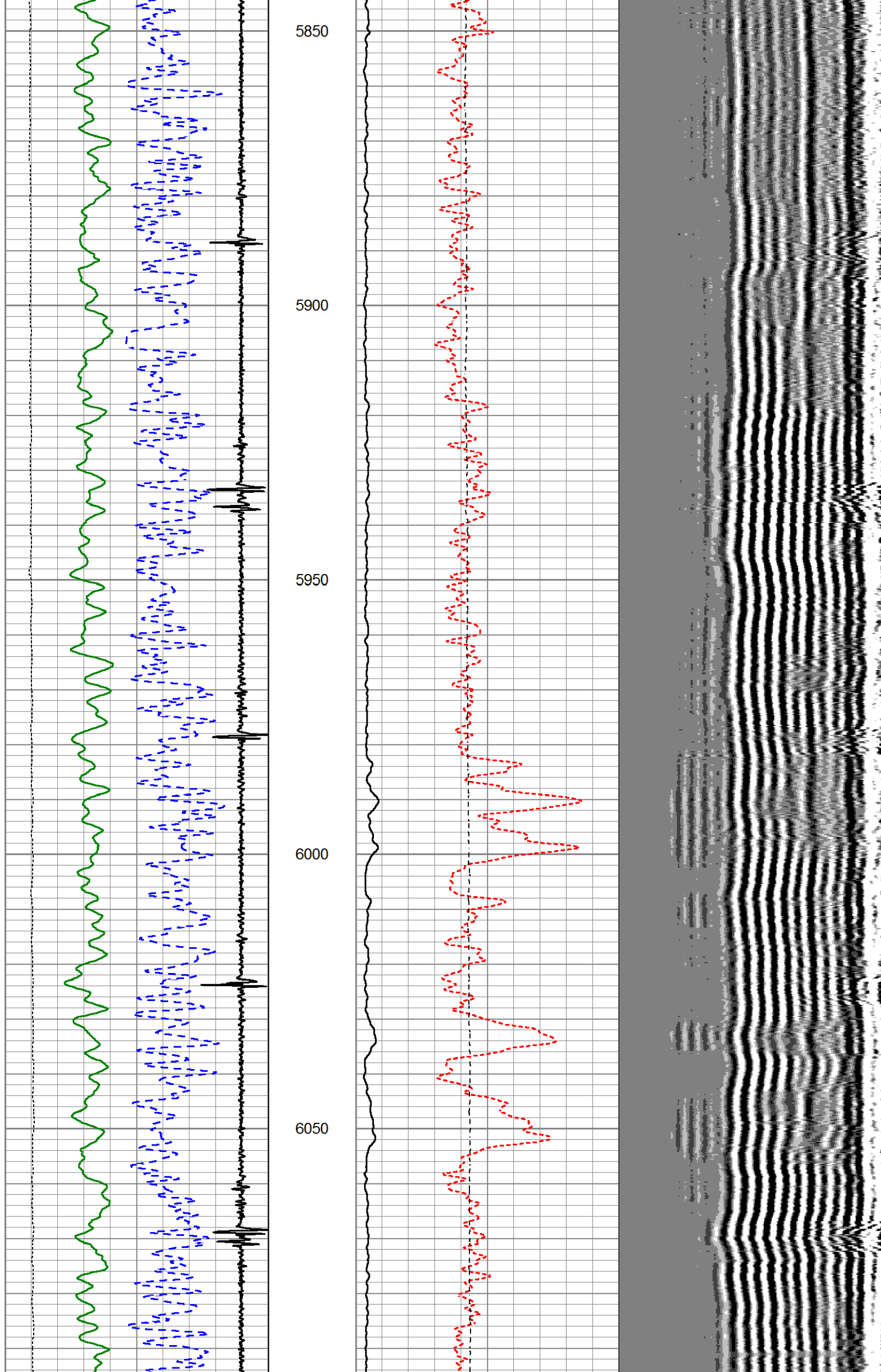


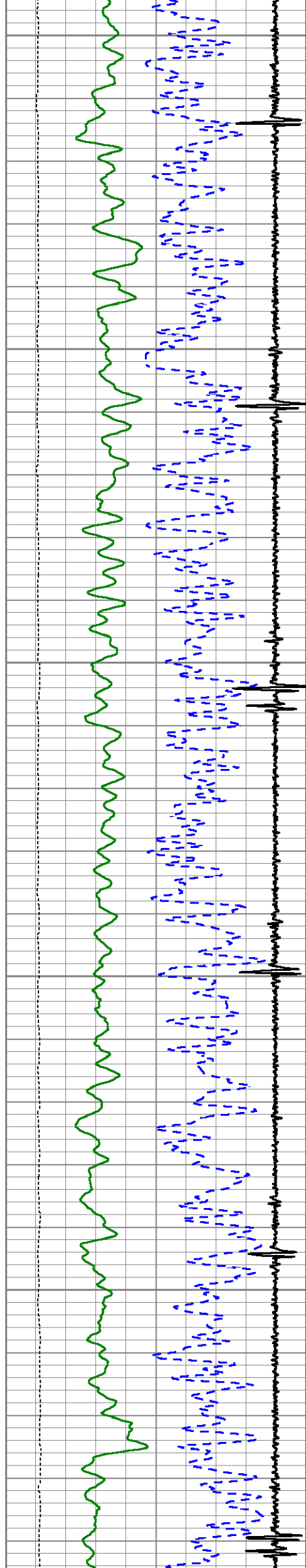












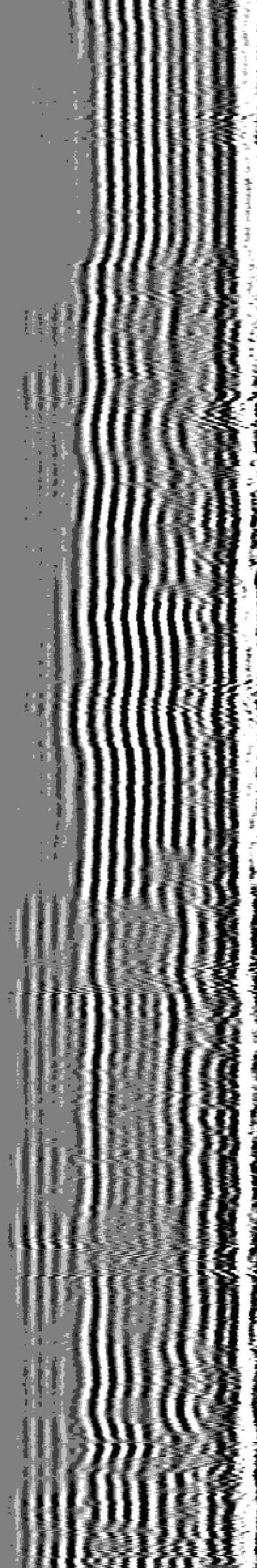
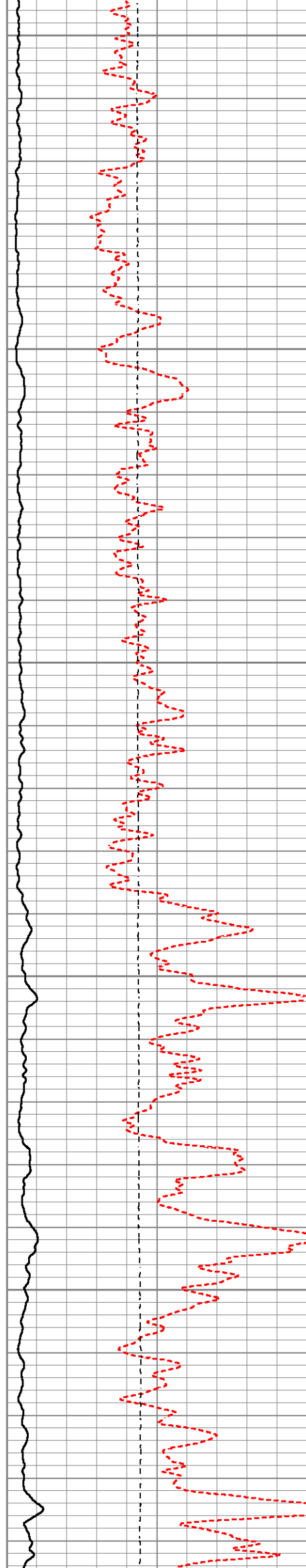
6100

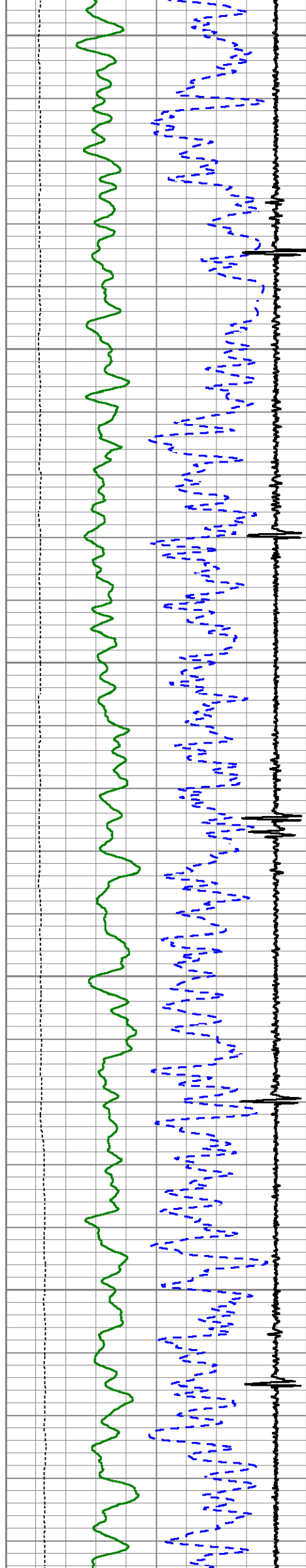
6150

6200

6250

6300





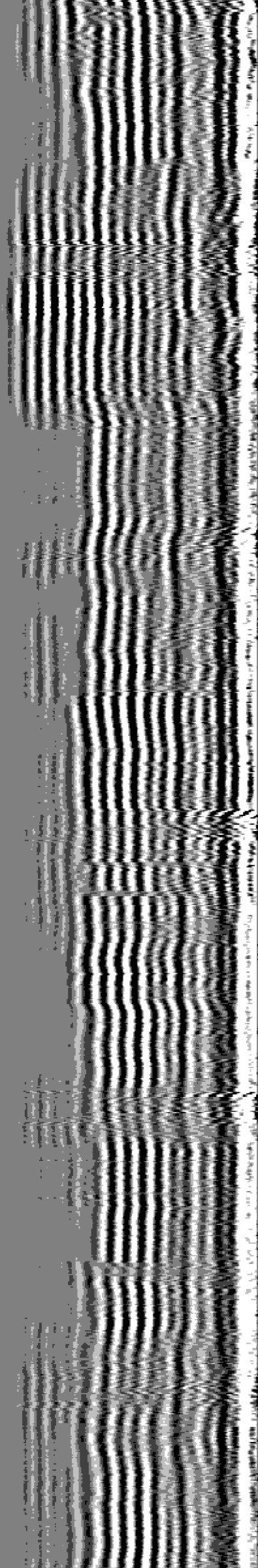
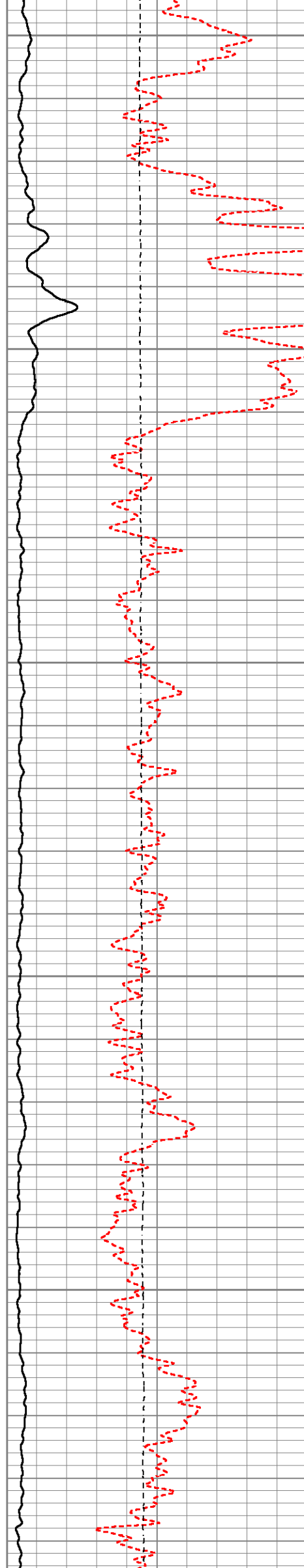
6350

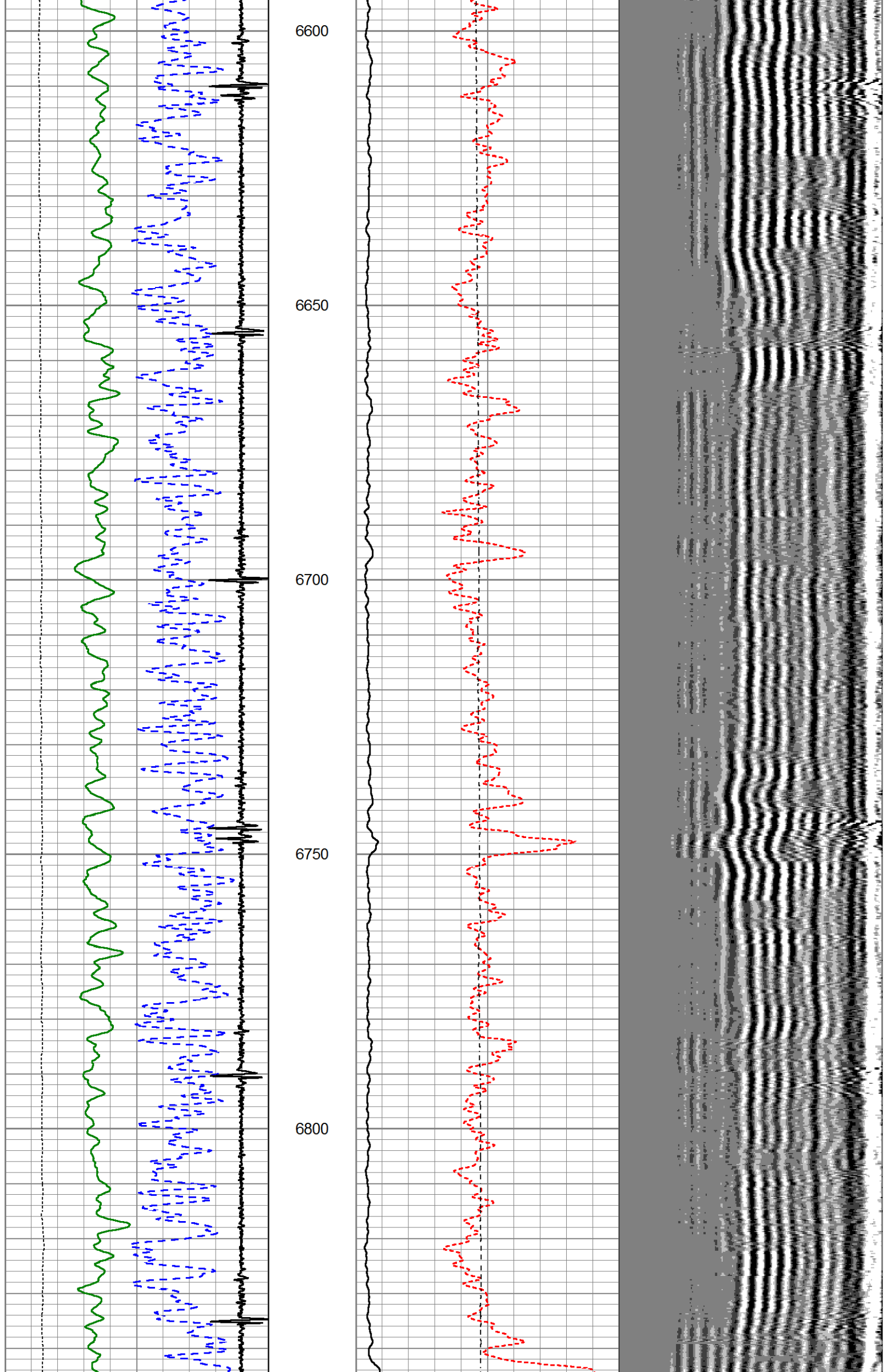
6400

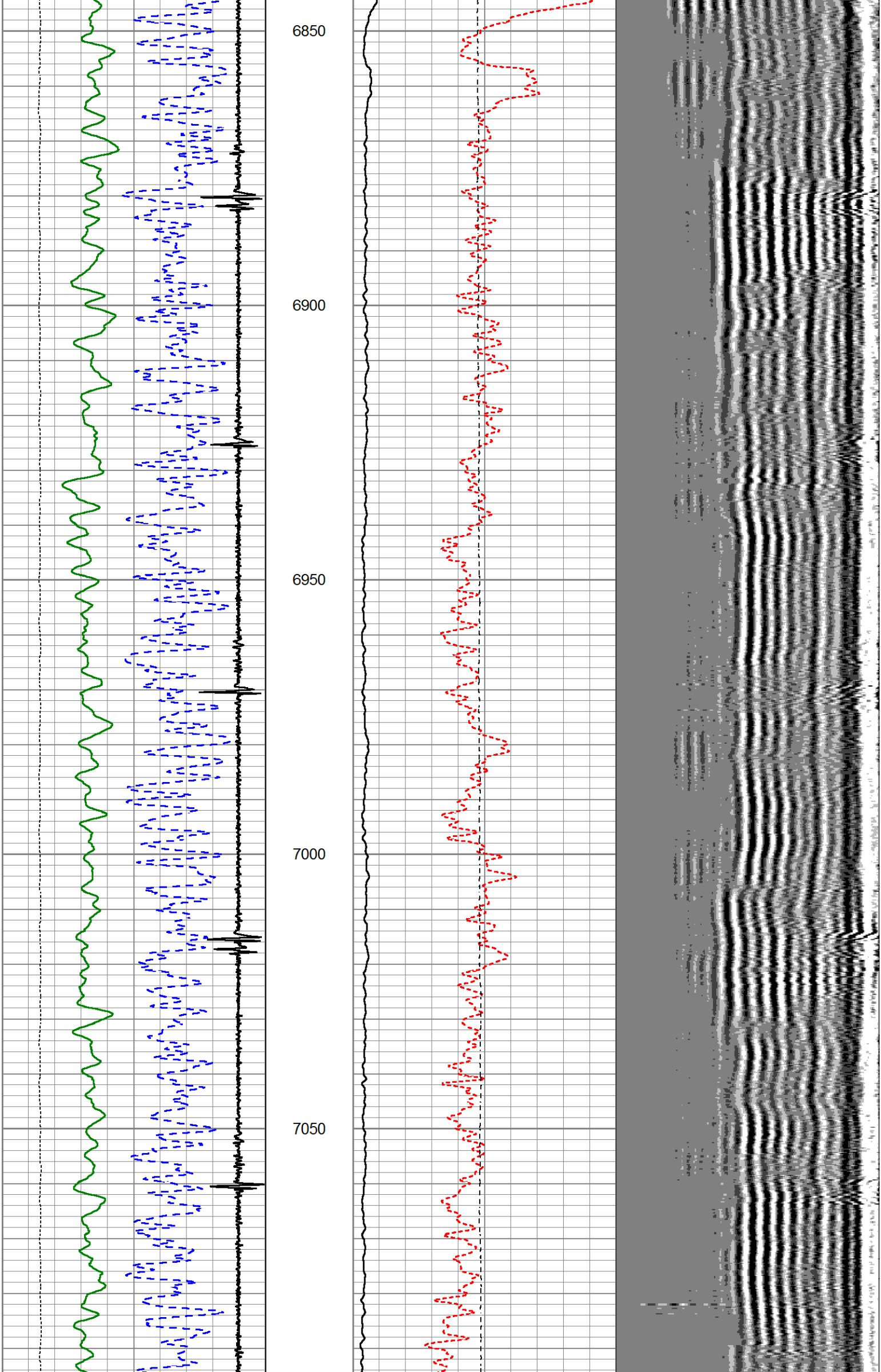
6450

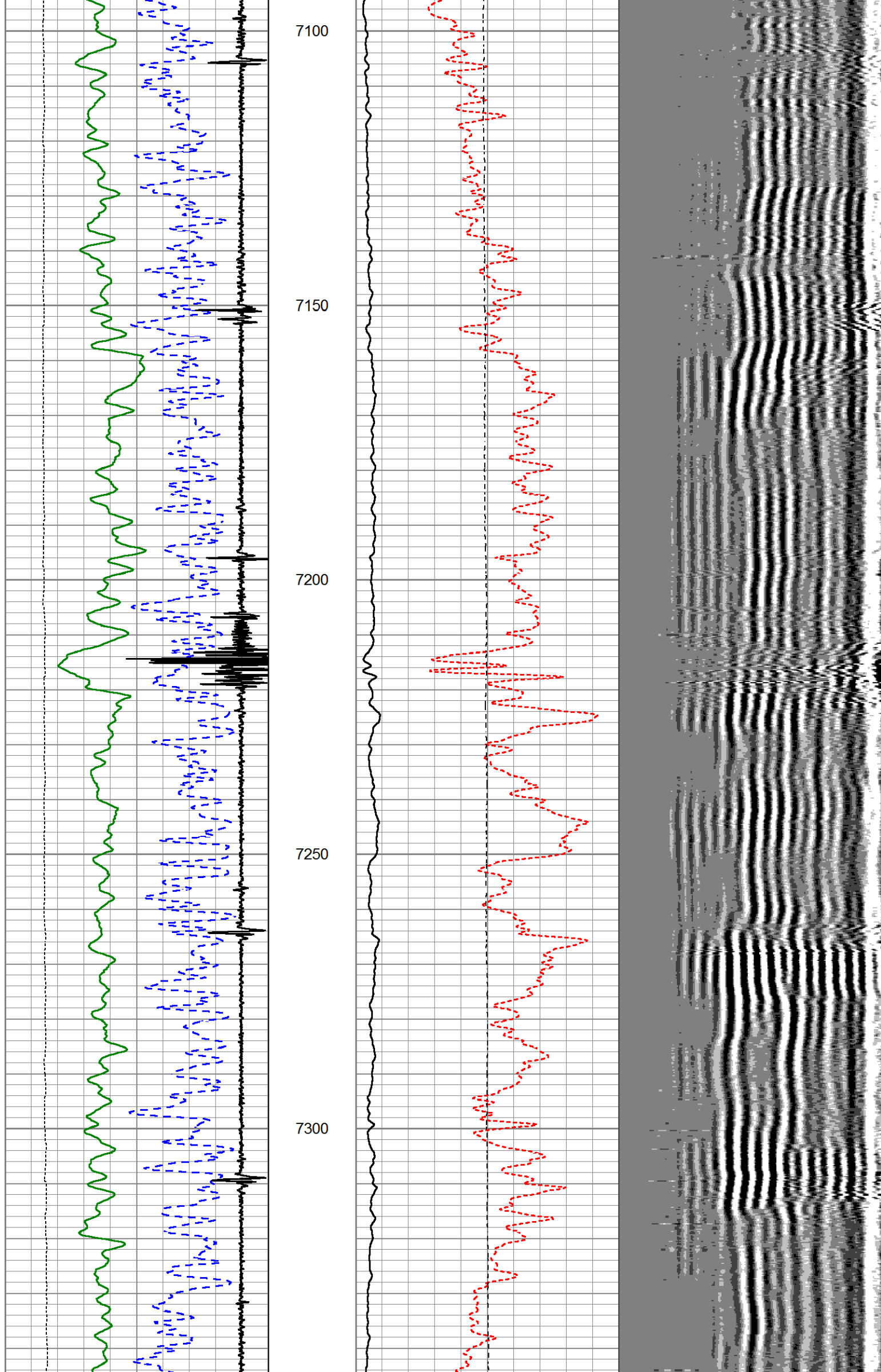
6500

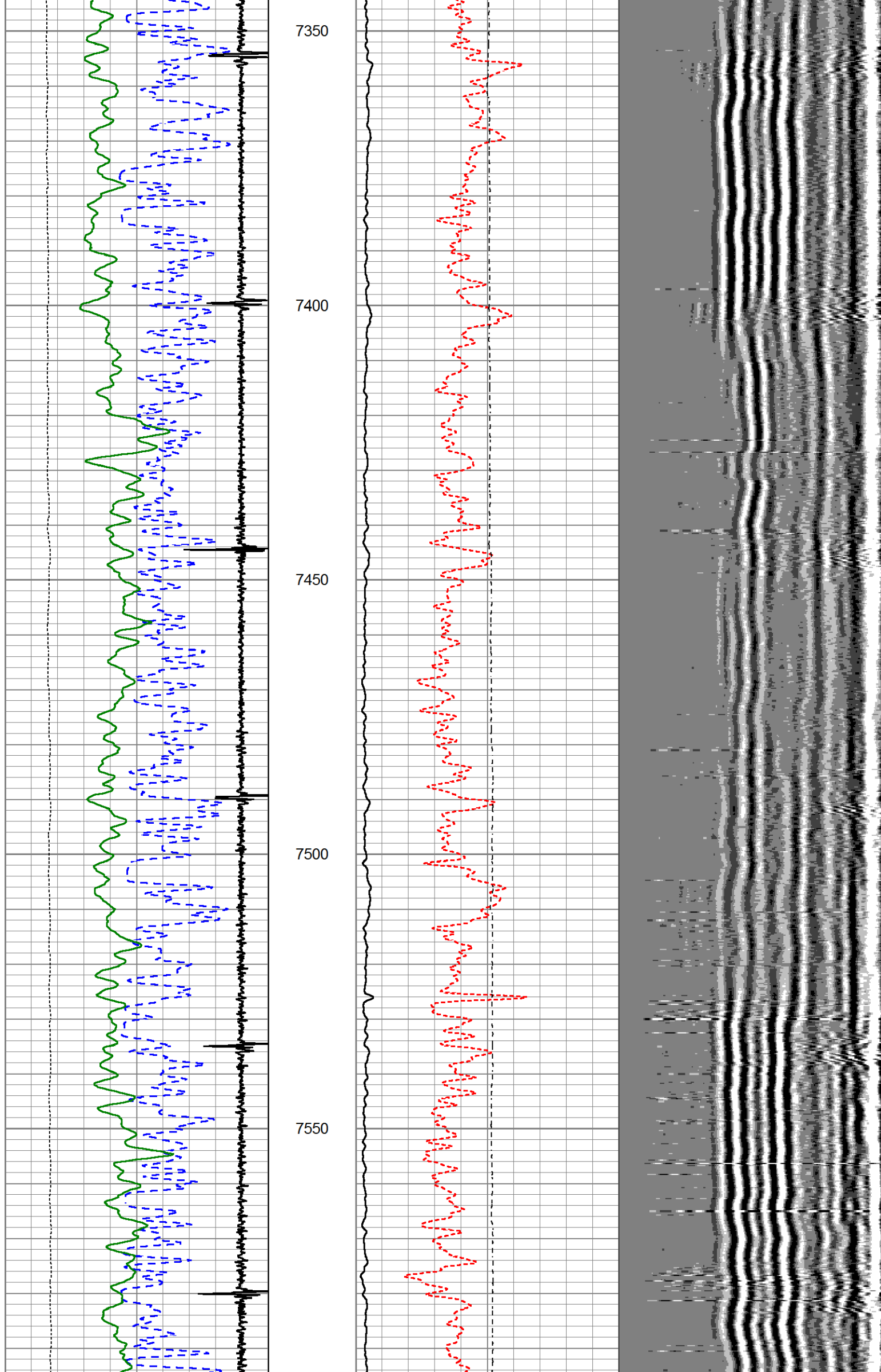
6550

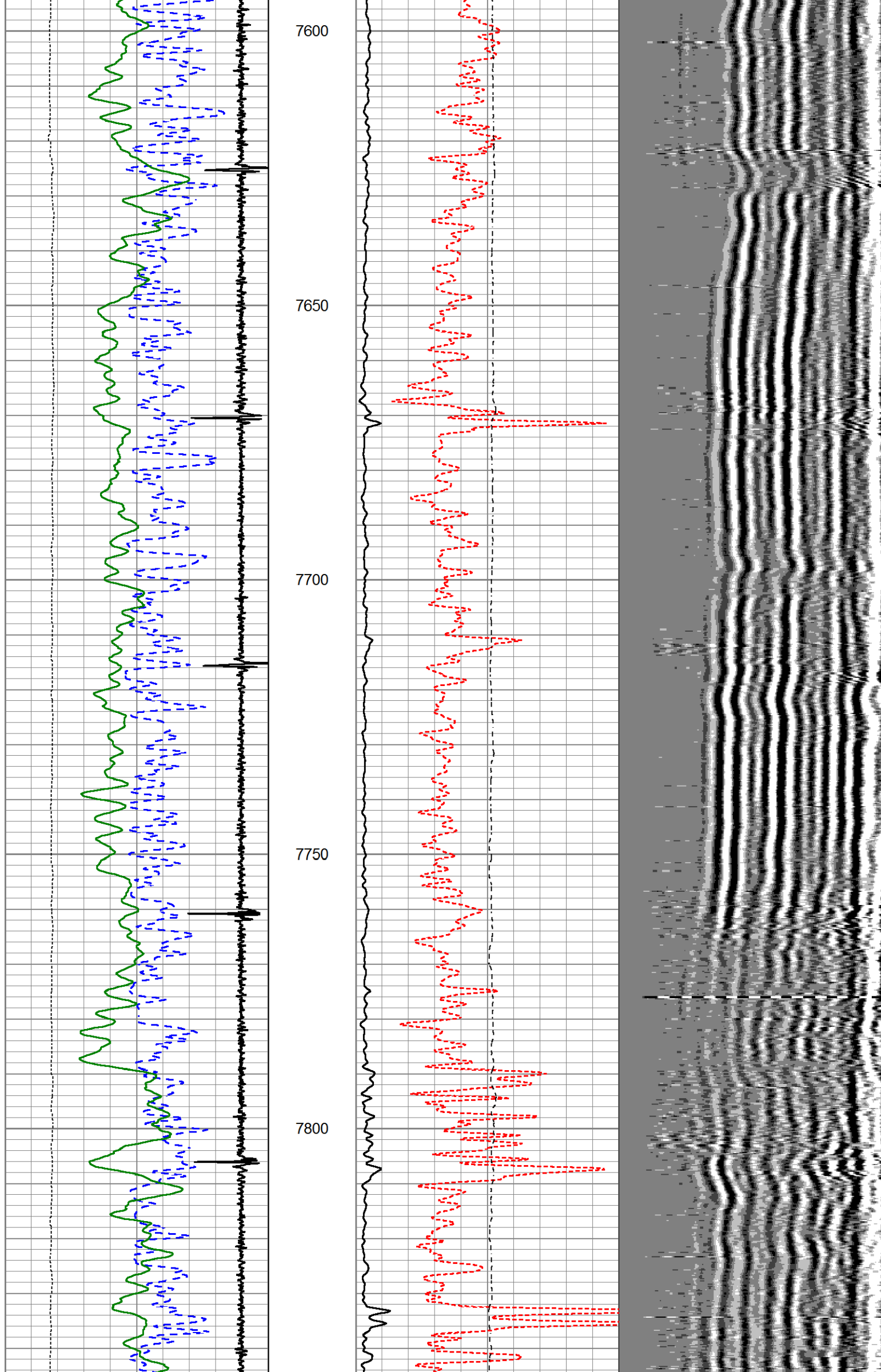


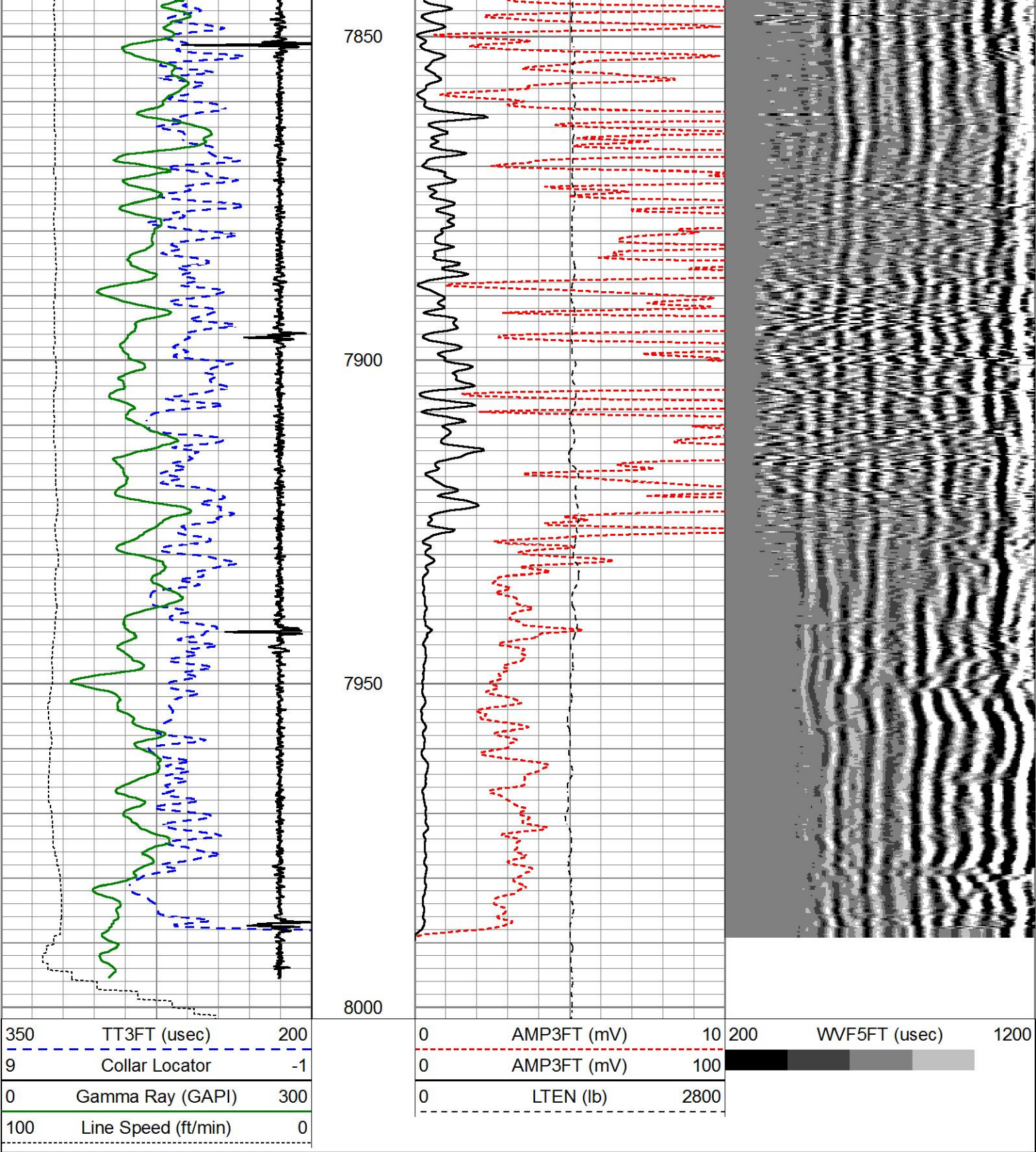












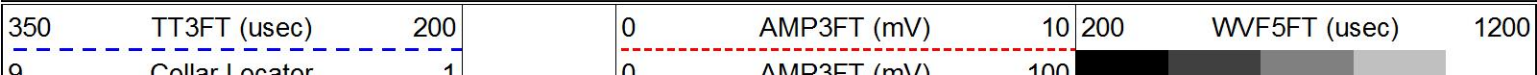
MAIN PASS

5" = 100'

REPEAT PASS

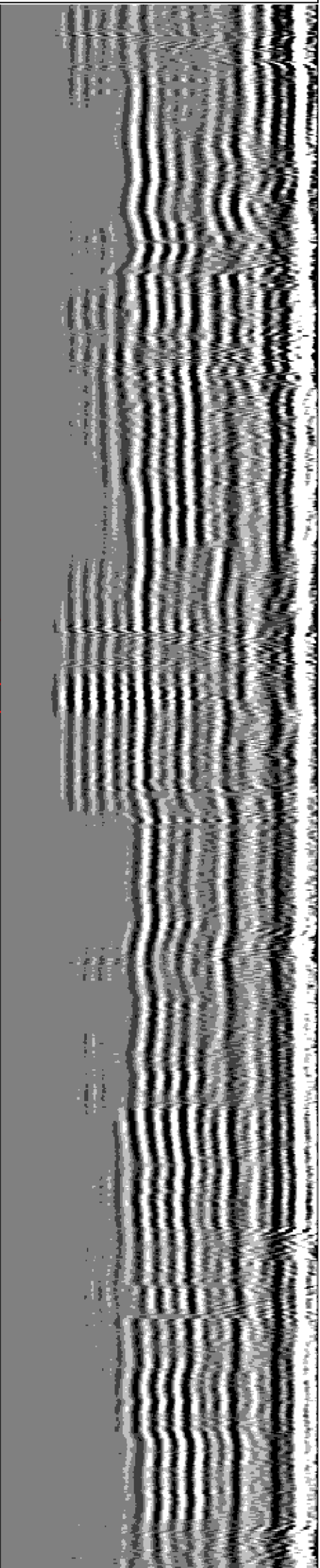
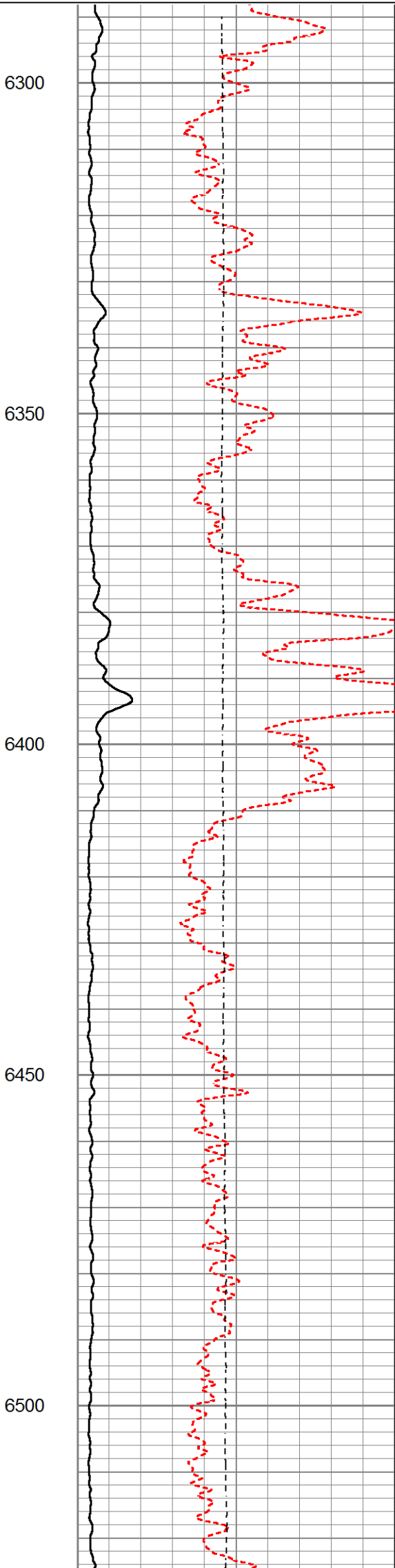
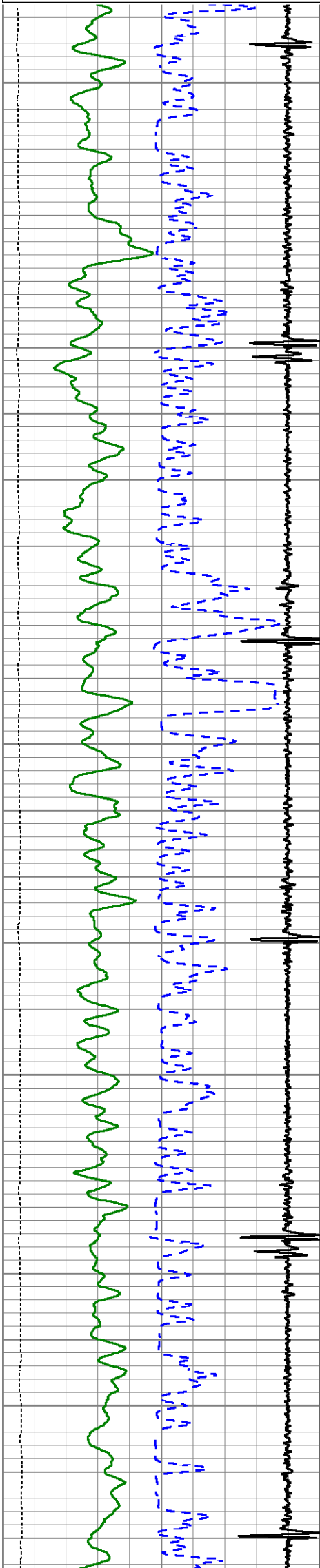
5" = 100'

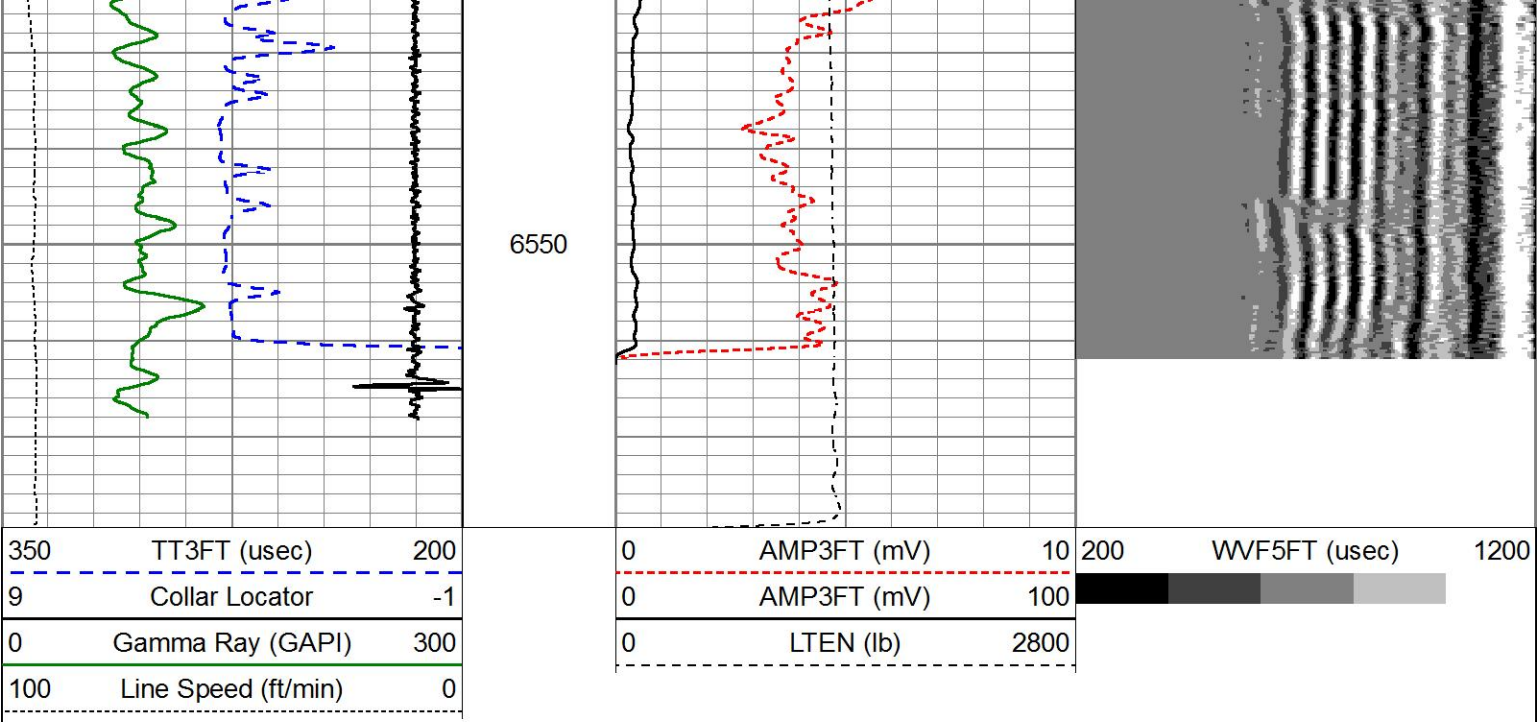
Database File true_buckskin 5-64 15-16-1bhz.db
Dataset Pathname RPT
Presentation Format cbl_dr
Dataset Creation Wed Aug 15 15:12:23 2018
Charted by Depth in Feet scaled 1:240



Collar Locator		
0	Gamma Ray (GAPI)	300
100	Line Speed (ft/min)	0

AMT SPT (lb)		
0	LTEN (lb)	2800





REPEAT PASS

HALLIBURTON

5" = 100'

Log Variables

DatabaseC:\ProgramData\Warrior\Data>true_buckskin 5-64 15-16-1bhz.db

Dataset field/well/RUN1/MAIN_PASS2/_vars_

Top - Bottom

BITSIZE in 7.875	BOTTEMP degF 200	CASEOD in 5.5	CASETHCK in 0.361	CASEWGHT lb/ft 20	MAXAMPL mV 72	MINAMPL mV 1	MINATTN db/ft 0.8
MudWgt lb/gal 8.5	PERFS 0	PPT usec 0	SRFTEMP degF 70	TDEPTH ft 17788			

Calibration Report						
Database File	true_buckskin 5-64 15-16-1bhz.db					
Dataset Pathname	MAIN_PASS1					
Dataset Creation	Wed Aug 15 15:27:48 2018					
Gamma Ray Calibration Report						
Type / Serial:		Probe275dig / 061016				
SHOP CALIBRATION		Mon Aug 13 10:32:42 2018				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	55.9				cps	
Calibrator	254.9				cps	
		1.2111			GAPI/cps	
PRIMARY VERIFICATION		Mon Aug 13 10:35:06 2018				
Background	70.6				cps	
Calibrator	311.2				cps	
Difference				240.7	GAPI	
BEFORE SURVEY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	
AFTER SURVEY VERIFICATION						
Background	0.0				cps	

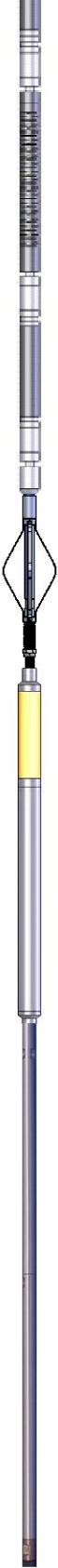
Background	0.0		cps
Calibrator			cps
Difference		0.0	GAPI

Segmented Cement Bond Log Calibration Report						
Serial Number:		070718				
Tool Model:		Probe				
Calibration Casing Diameter:		5.500			in	
Calibration Depth:		262.010			ft	

Master Calibration, performed Wed Aug 15 14:52:14 2018:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.883	0.000	72.000	81.518	0.000
CAL						
5'	0.000	0.895	0.000	72.000	80.430	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 Wed Aug 15 09:05:25 2018:						
	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						

WVF3FT	18.50		8.92	2.75	60.00
WVF5FT	17.50				
			2.31	1.69	11.02
CCL	11.17				
GR	9.79		4.75	2.75	57.00
			7.25	1.69	84.00
Dataset: true_buckskin 5-64 15-16-1bhz.db: field/well/RUN1/MAIN_PASS2 Total length: 27.04 ft Total weight: 224.05 lb O.D.: 2.75 in					

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