



# CEMENT BOND LOG 4 TRACK PRESENTATION FIELD PRINT




Company CATAMOUNT		Company CATAMOUNT					
Well	CARPENTER 32-6-3#1S	Well	CARPENTER 32-6-3#1S				
Field	IGNACIO BLANCO	Field	IGNACIO BLANCO				
County	LA PLATA	County	LA PLATA				
State	COLORADO	State	COLORADO				
Location: 2386' FSL & 1763' FEL		API #: 05-067-09918					
SEC 3 TWP 32 RGE 6		Other Services					
Permanent Datum	GL	Elevation	6372'				
Log Measured From	RKB 16'	K.B. 6388'					
Drilling Measured From	RKB	D.F. 6387'					
		G.L. 6372'					
Date	5/28/15						
Run Number	ONE						
Depth Driller	3412						
Depth Logger	3345'						
Bottom Logged Interval	3345:						
Top Log Interval	SURF.						
Open Hole Size							
Type Fluid	H2O						
Density / Viscosity							
Max. Recorded Temp.							
Estimated Cement Top							
Time Well Ready	7:30						
Time Logger on Bottom	8:30						
Equipment Number	D8 SDS RCE31						
Location	FRM						
Recorded By	JLANDEROS						
Witnessed By	MR. MARK WOLFE						
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	8-5/8	J-55 36#	SURF	408'			
Prot. String							
Production String	5.5	J-55 17#	SURF	3345			
Liner							

--- Fold Here ---

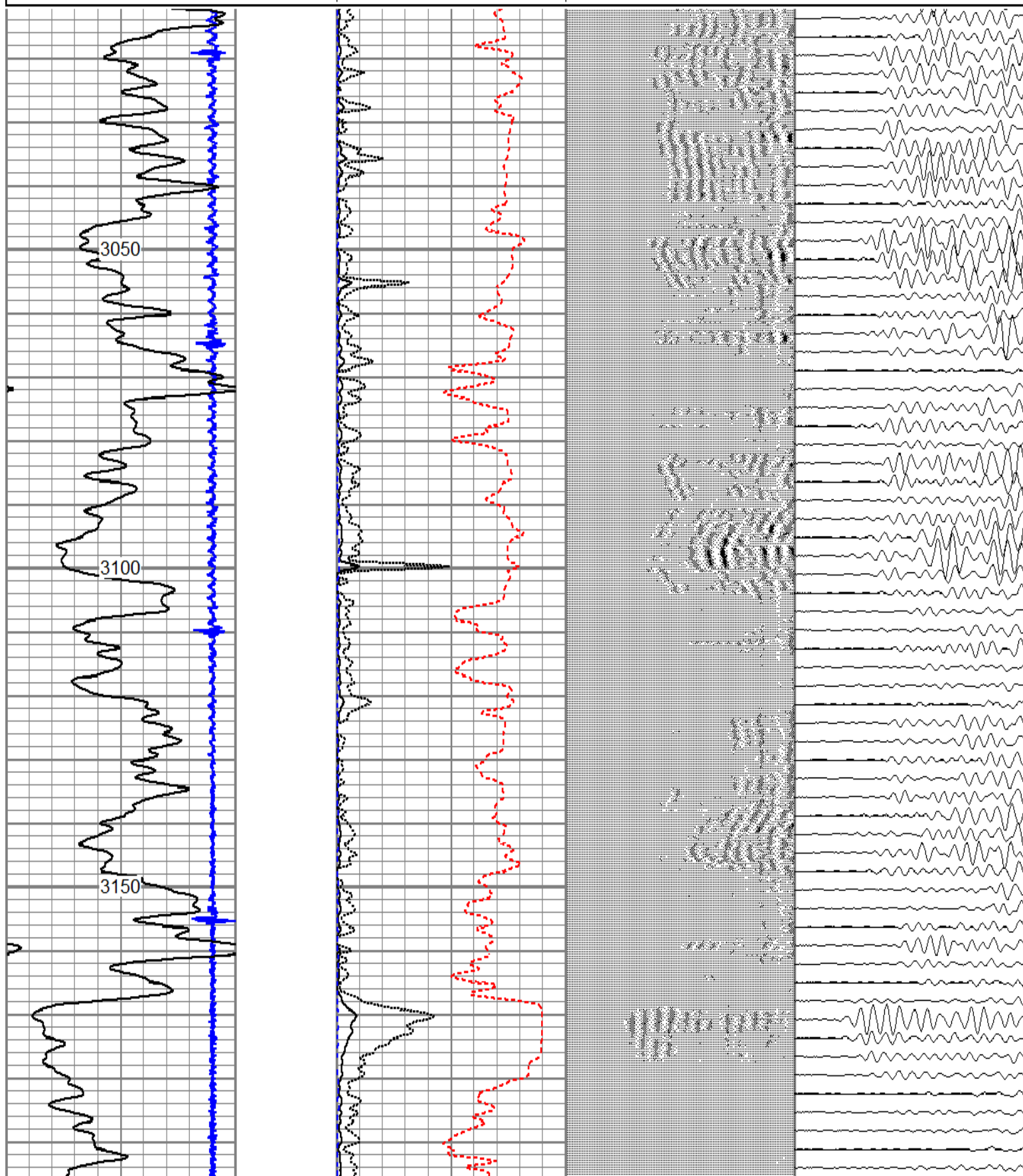
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price

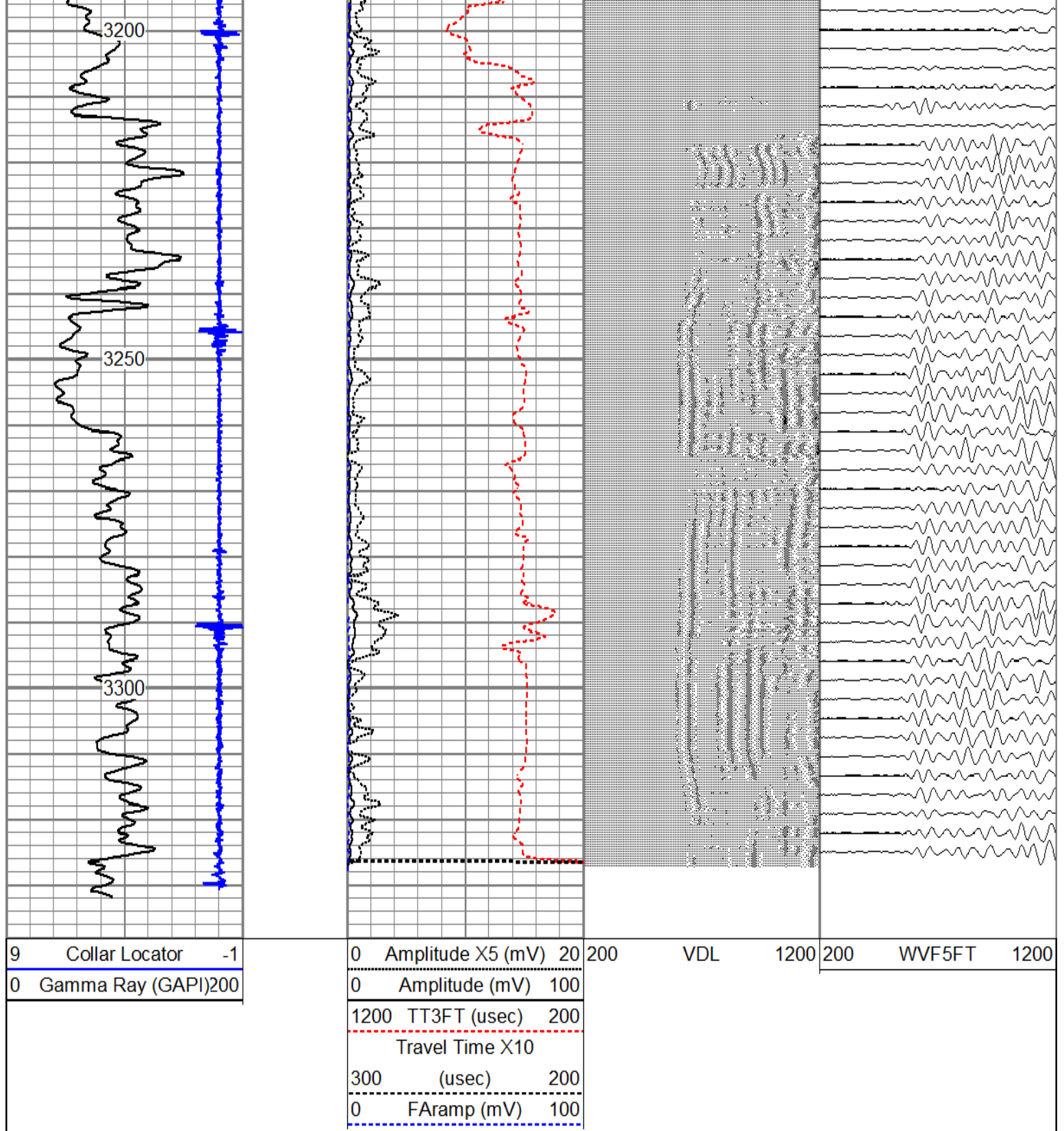
## Comments

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)

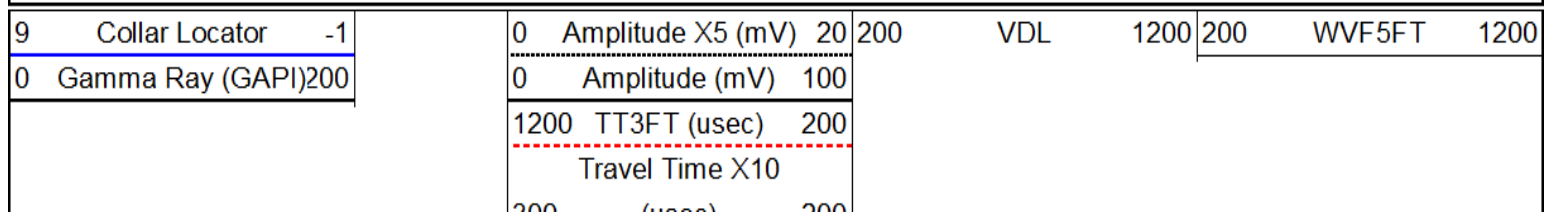
			CENT-Probe (PTS_MONO)	2.88	2.75	35.00
WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WWFCAL WVF3FT WVF5FT	11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 10.72		RBT-Probe (060632) Probe Radial Bond Tool with Digital Telemetry	9.17	2.75	90.00
CCL	6.52		GR-Probe (060634) Probe 2.75" 4 Channel Pulse	4.58	2.75	30.00
GR	3.78		CENT-Probe (PT_MONO2)	2.88	2.75	35.00
Dataset: catamountcarpenter32-6-31srce.db: fieldnacioblanco/wellcarpenter32-6-31s/run1/pass2 Total length: 19.52 ft Total weight: 190.00 lb O.D.: 2.75 in						

9	Collar Locator	-1	0	Amplitude X5 (mV)	20	200	VDL	1200	200	WVF5FT	1200
0	Gamma Ray (GAPI)	200	0	Amplitude (mV)	100						
			1200	TT3FT (usec)	200						
				Travel Time X10							
			300	(usec)	200						
			0	FAramp (mV)	100						



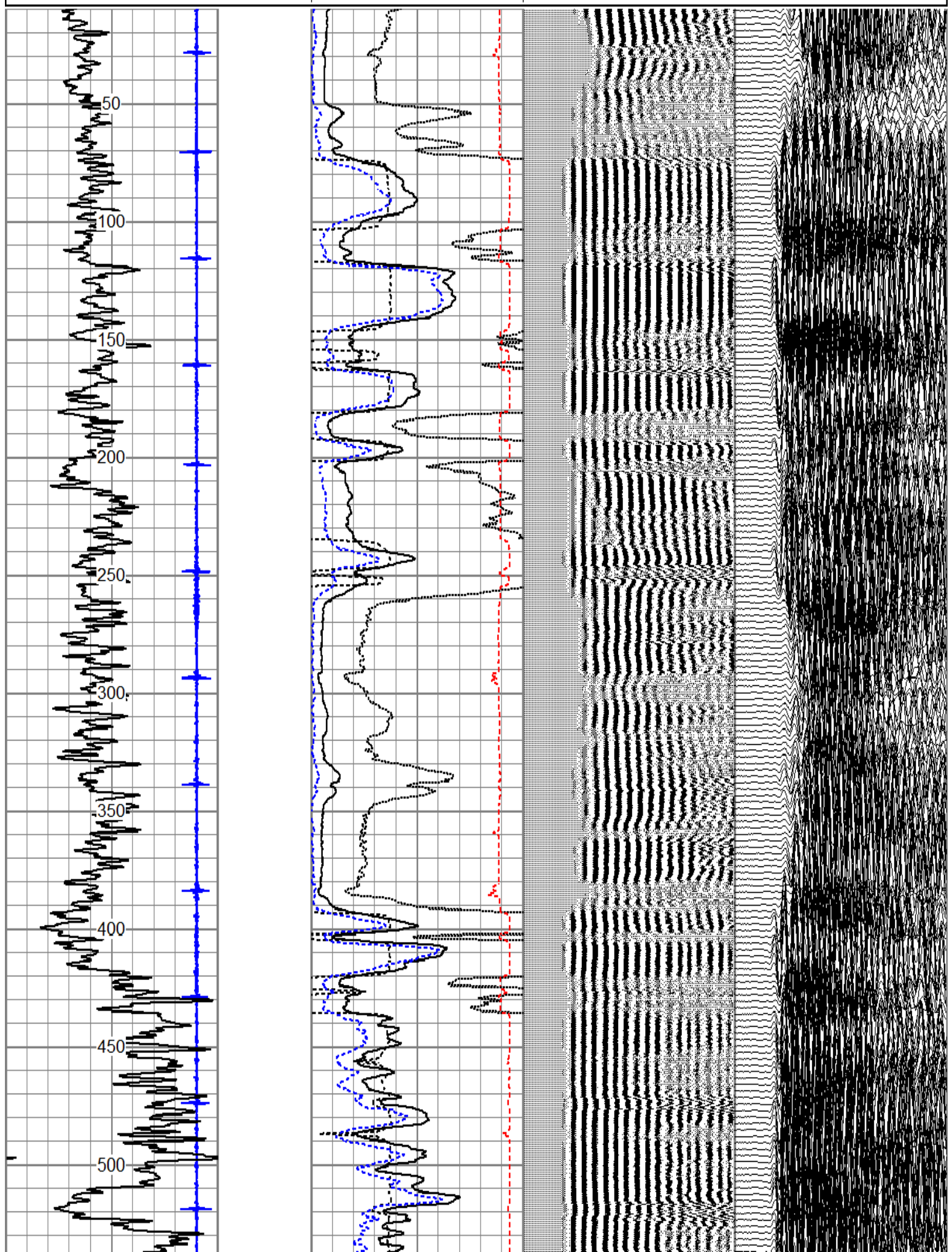


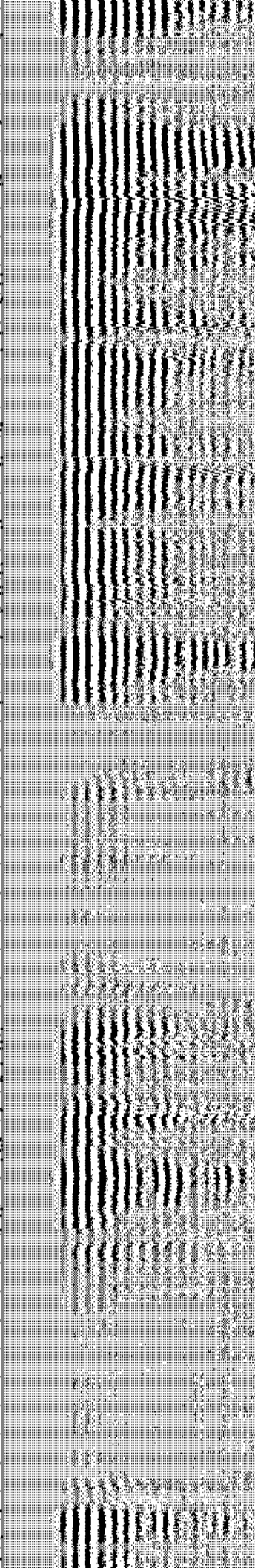
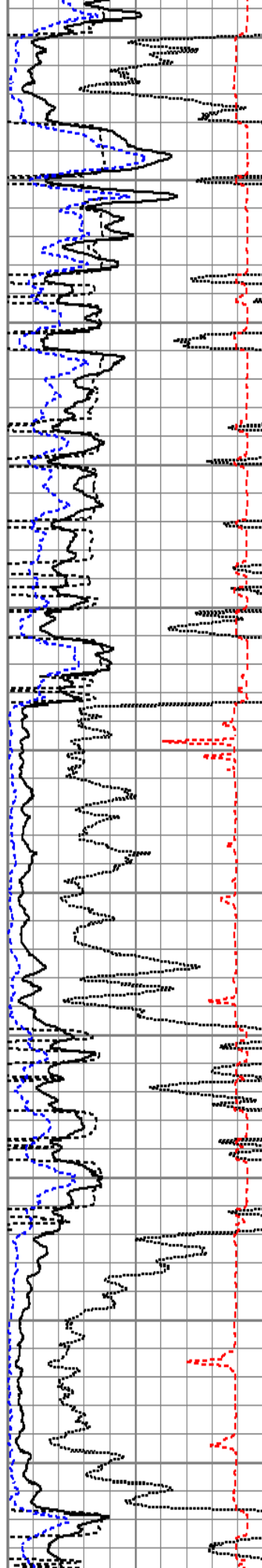
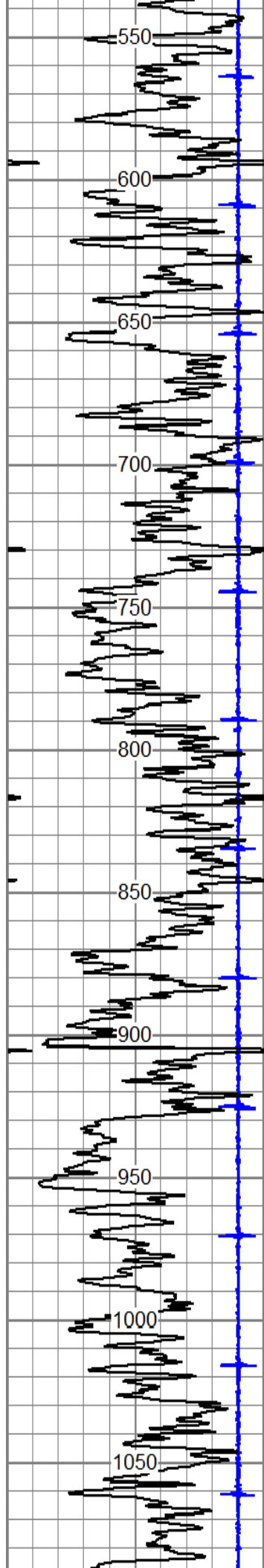
Database File	catamountcarpenter32-6-31srce.db
Dataset Pathname	fieldnacioblanco/wellcarpenter32-6-31s/run1/pass2
Presentation Format	cbl5inpl1
Dataset Creation	Thu May 28 08:57:14 2015
Charted by	Depth in Feet scaled 1:600



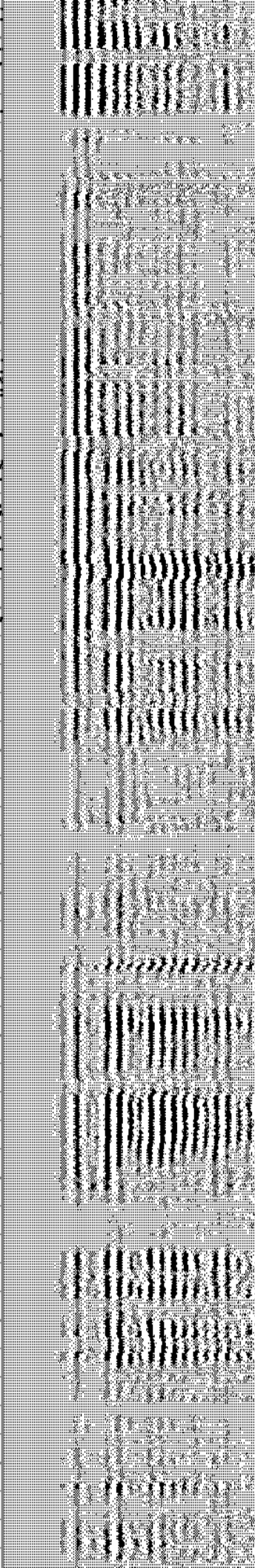
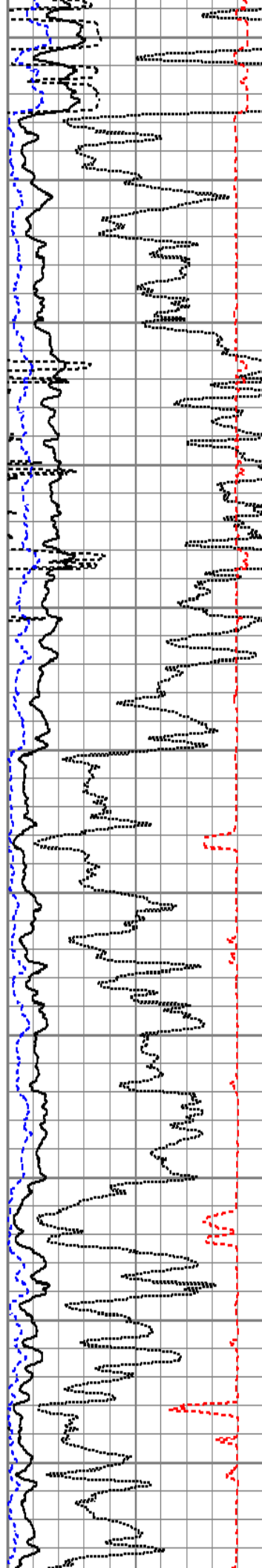
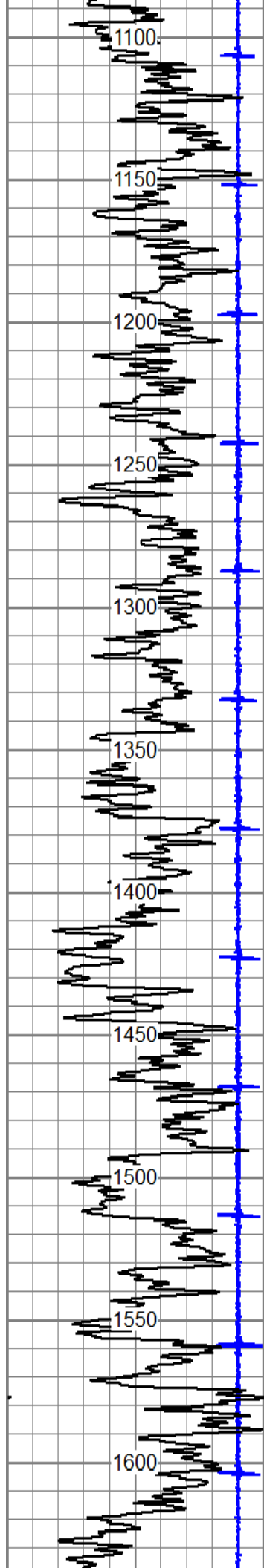


300 (usec) 200  
0 FAramp (mV) 100

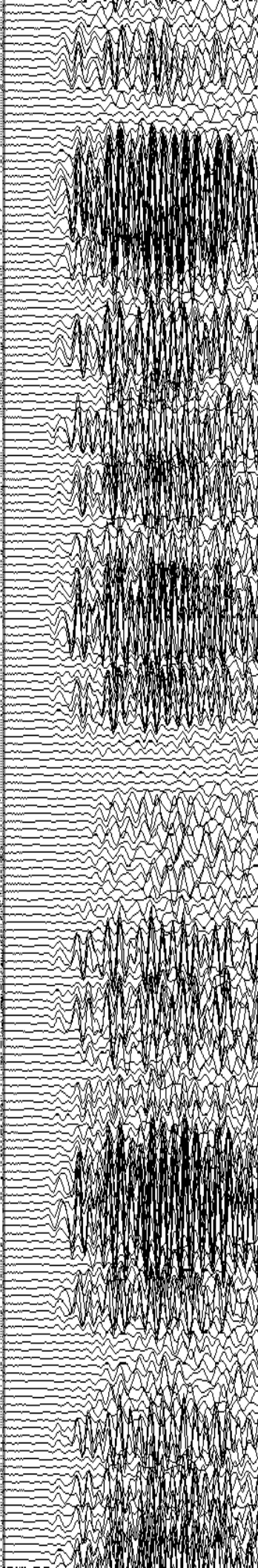
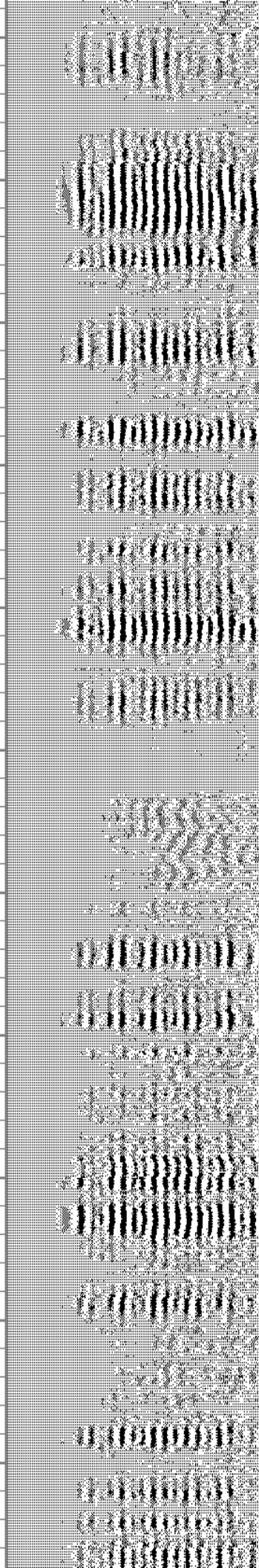
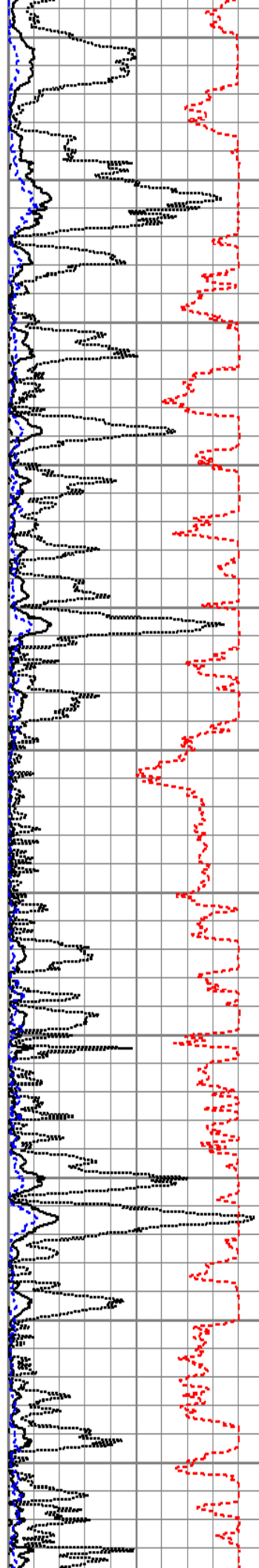
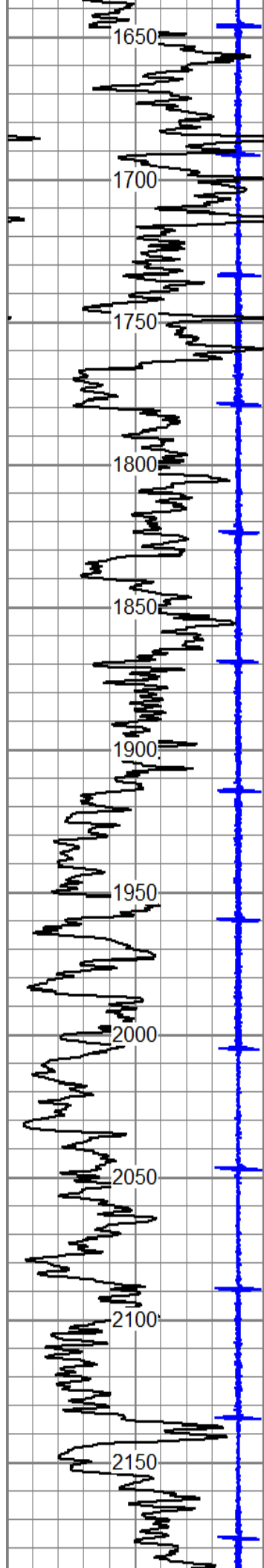




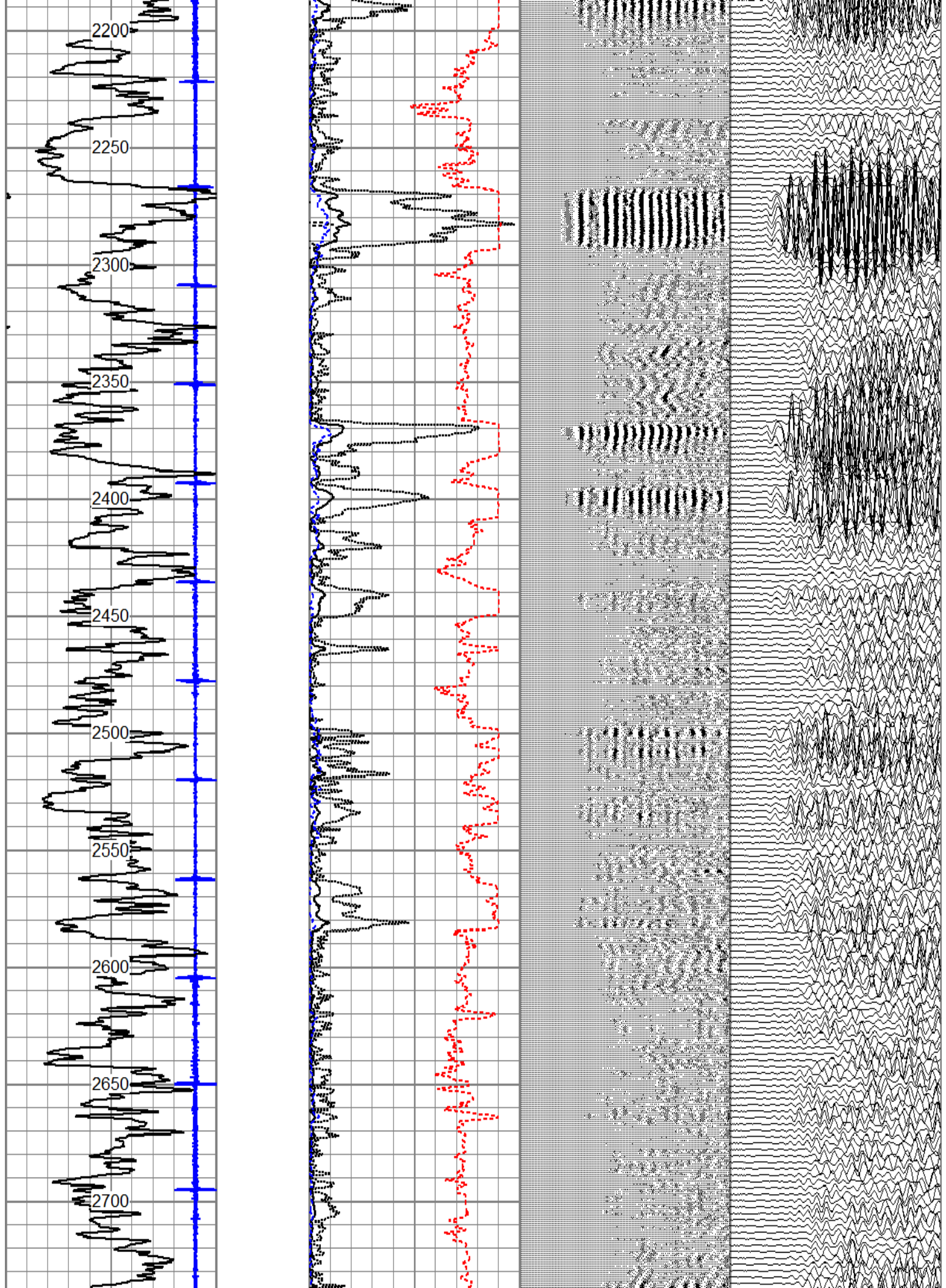


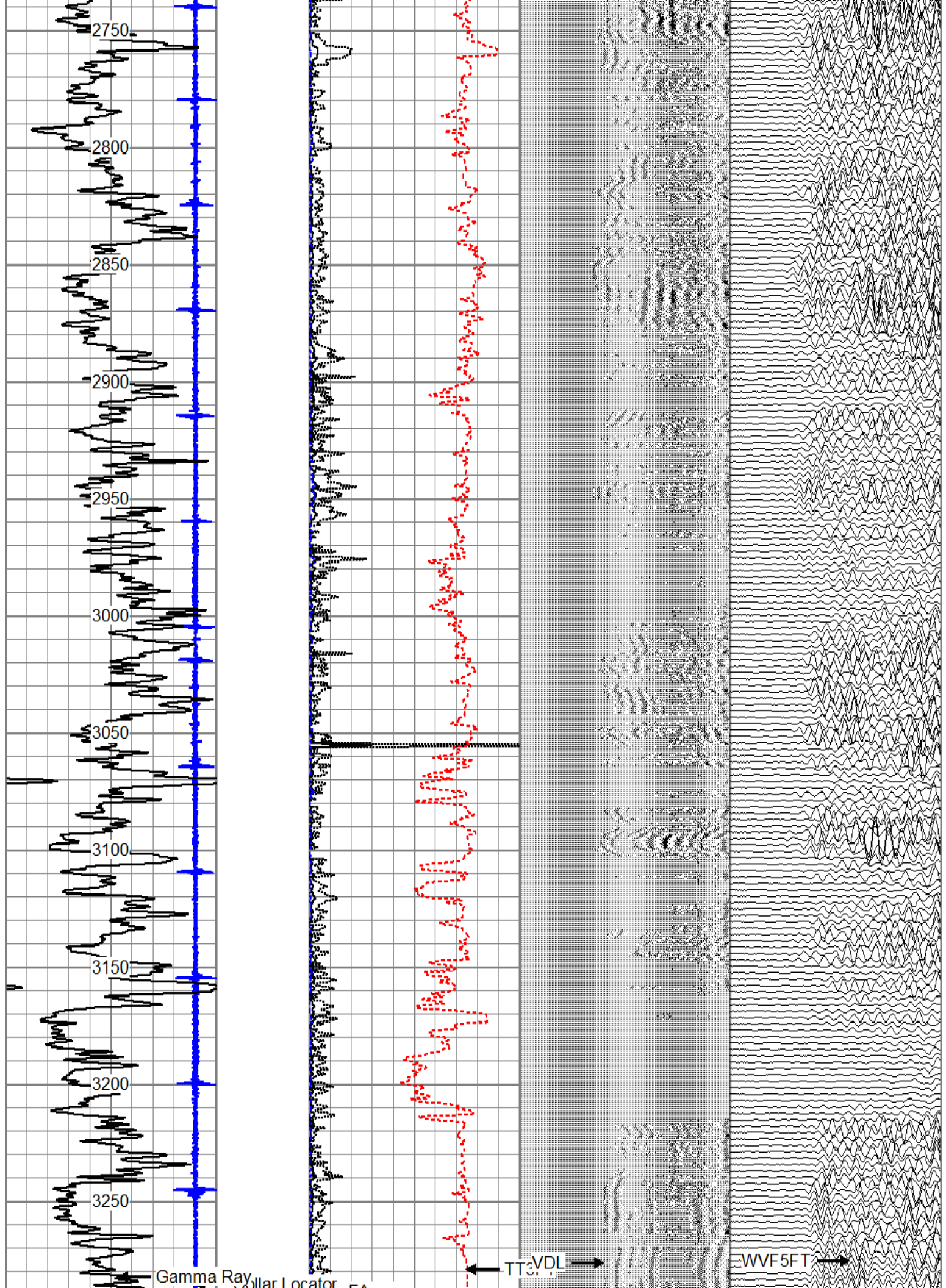




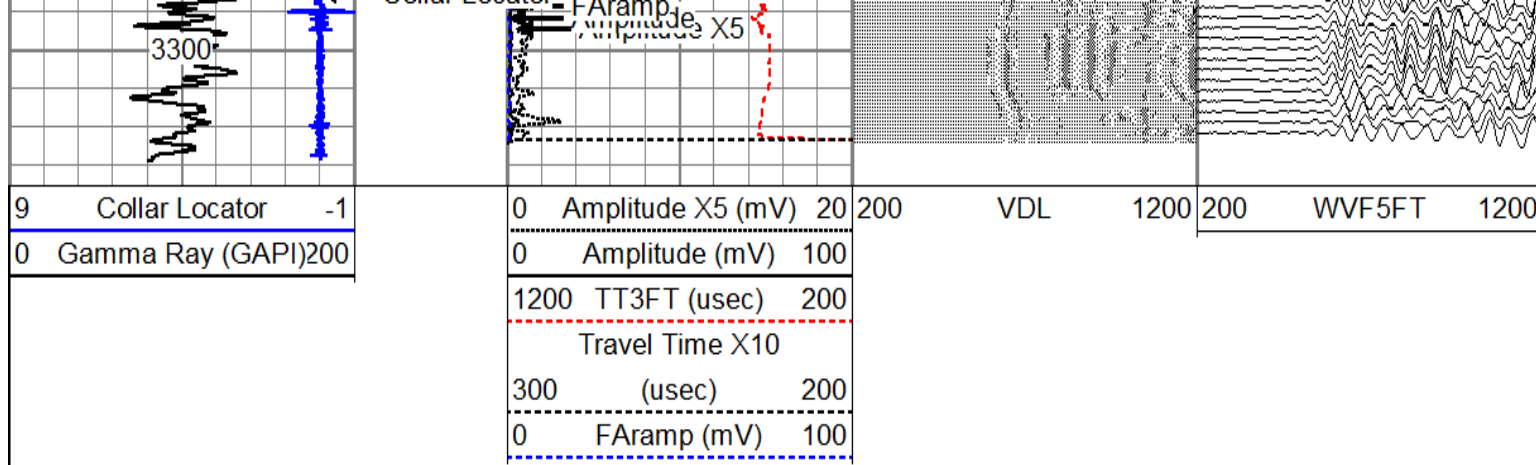




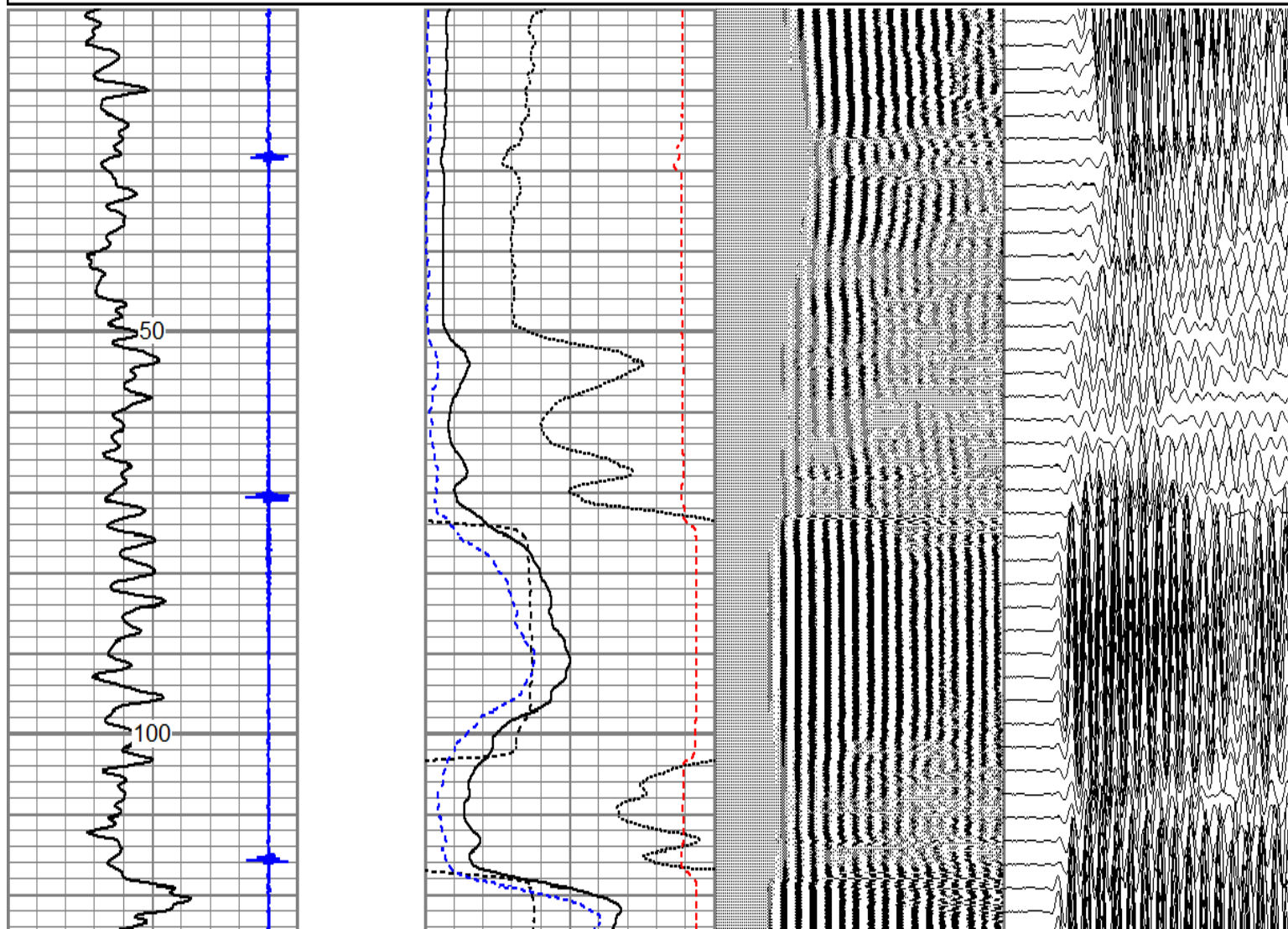
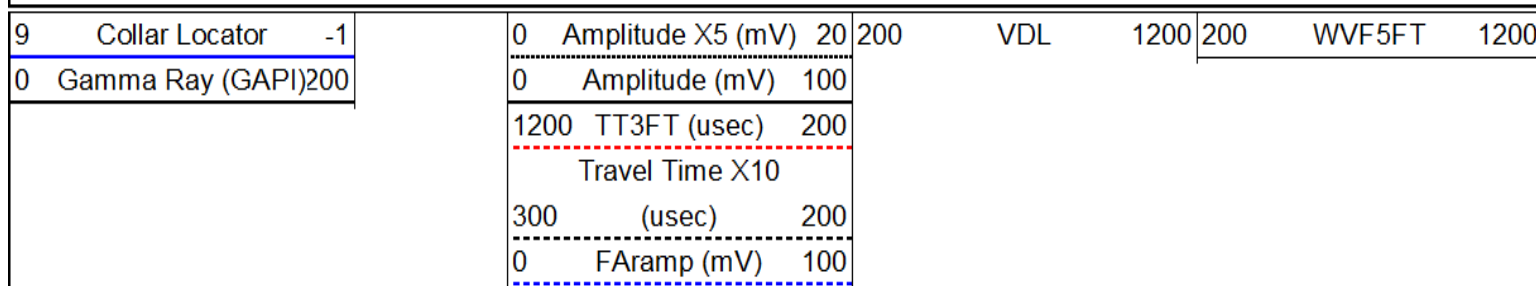


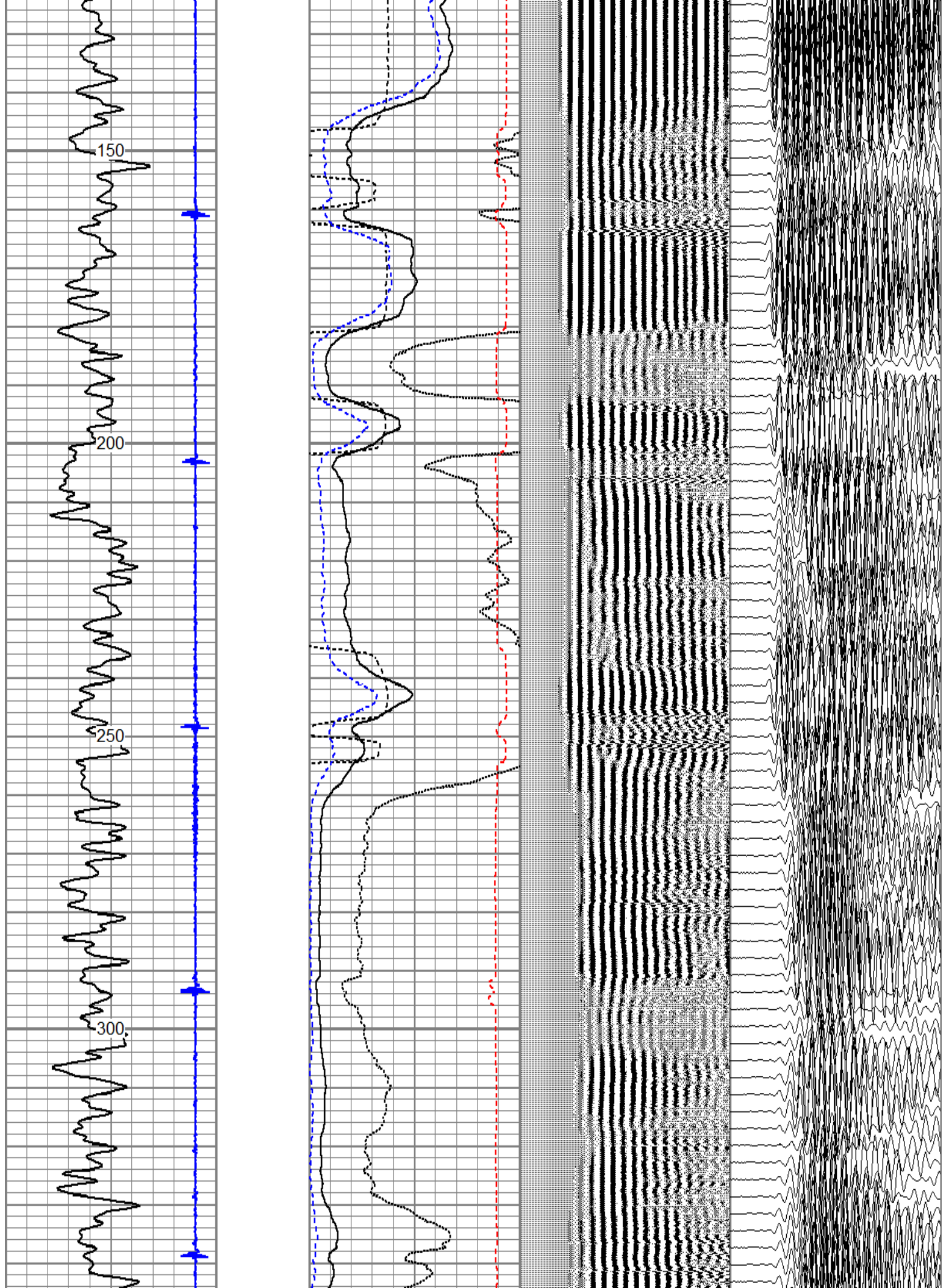




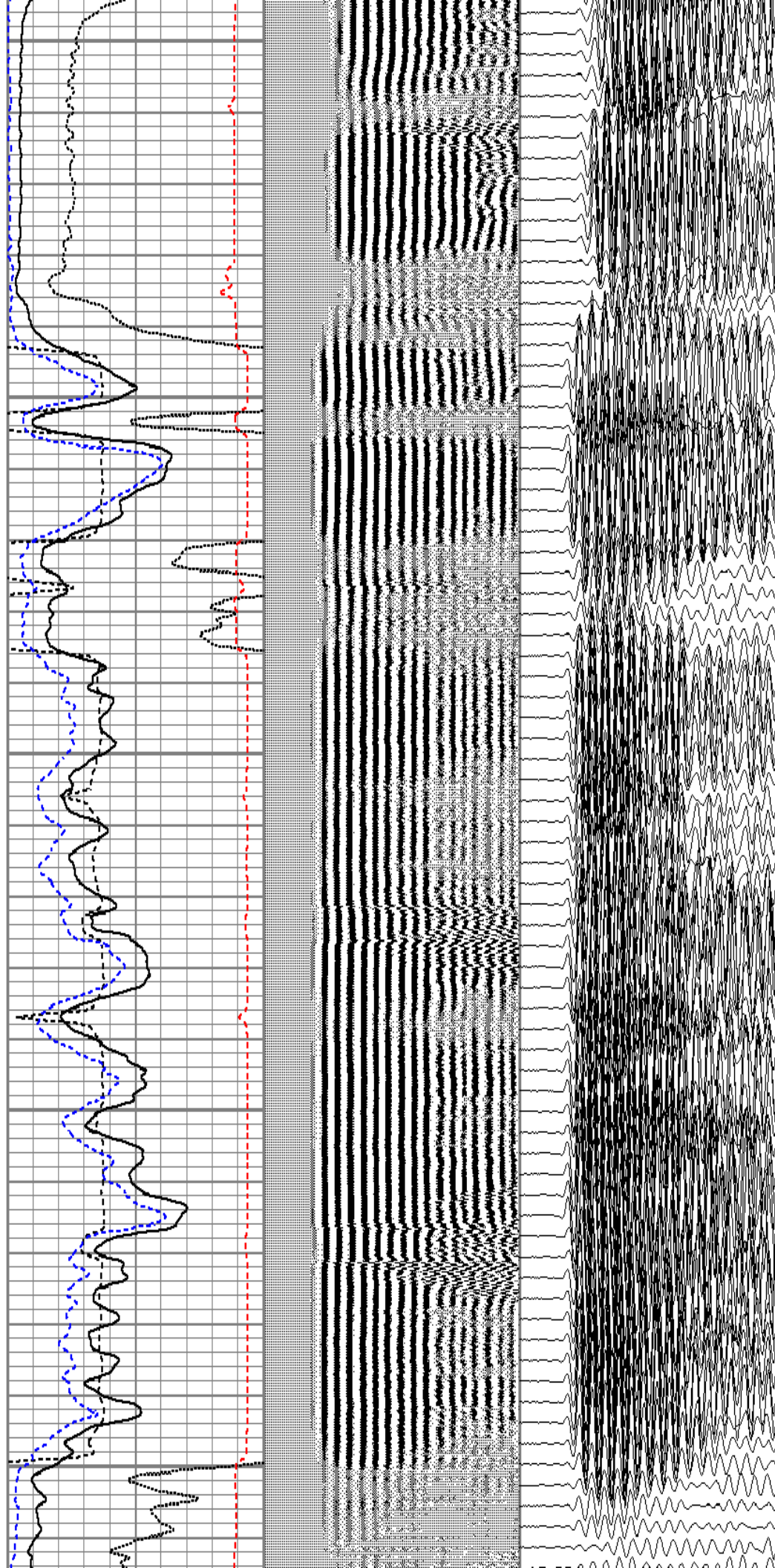
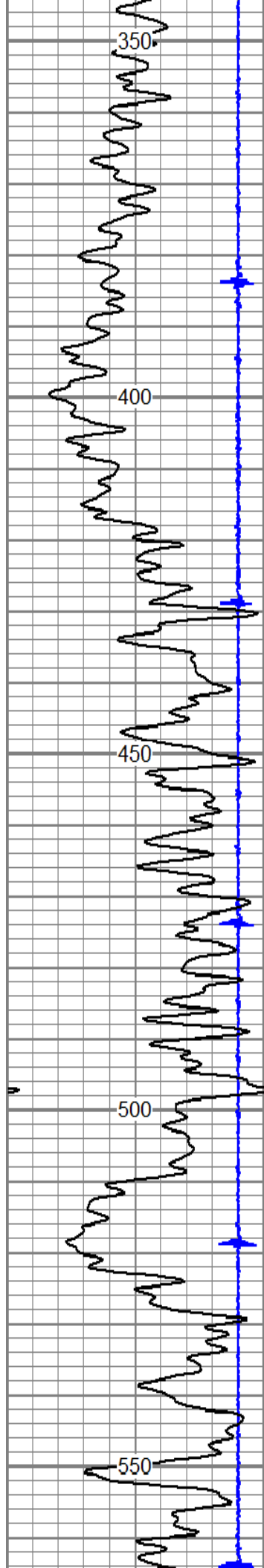


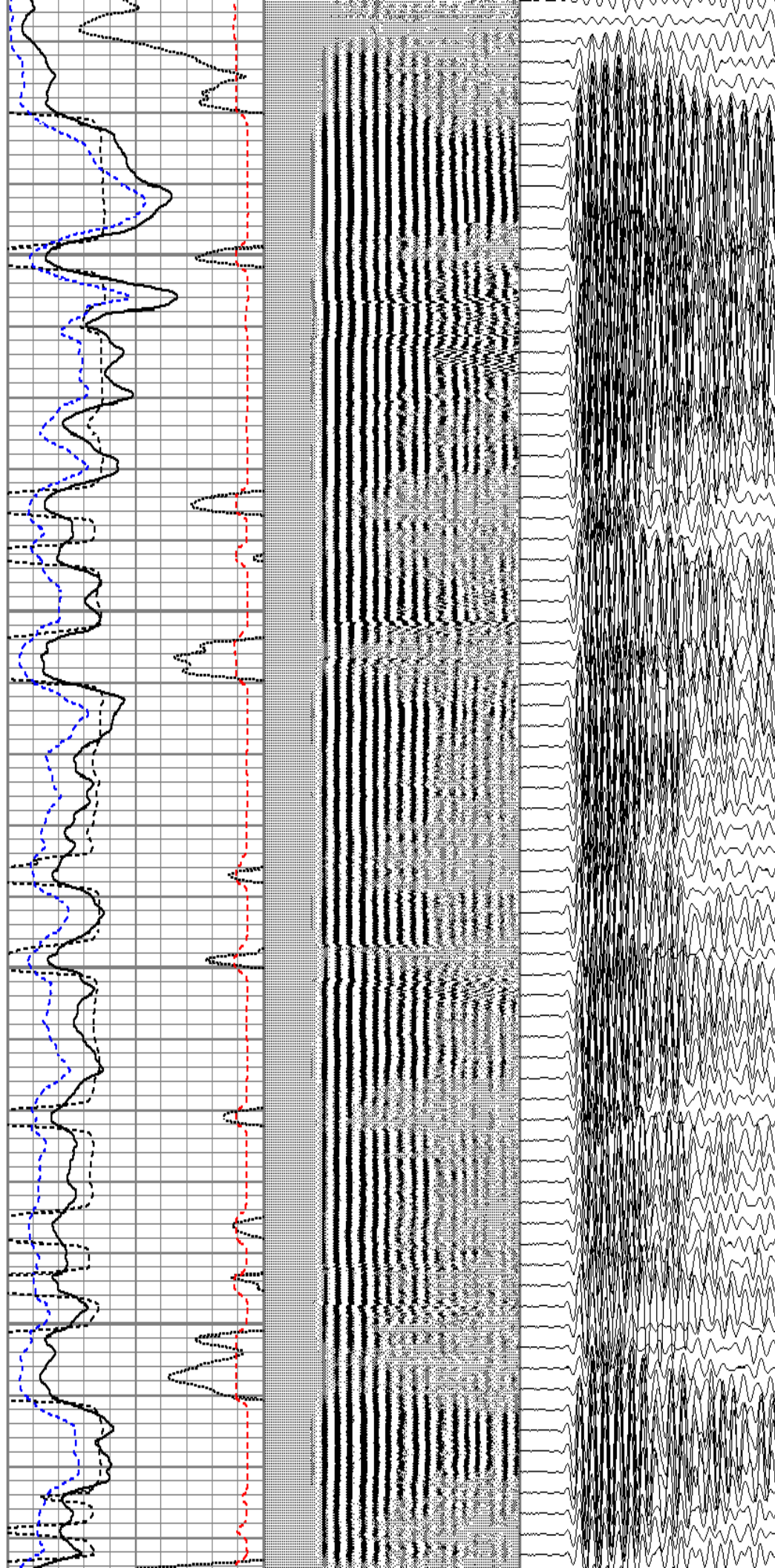
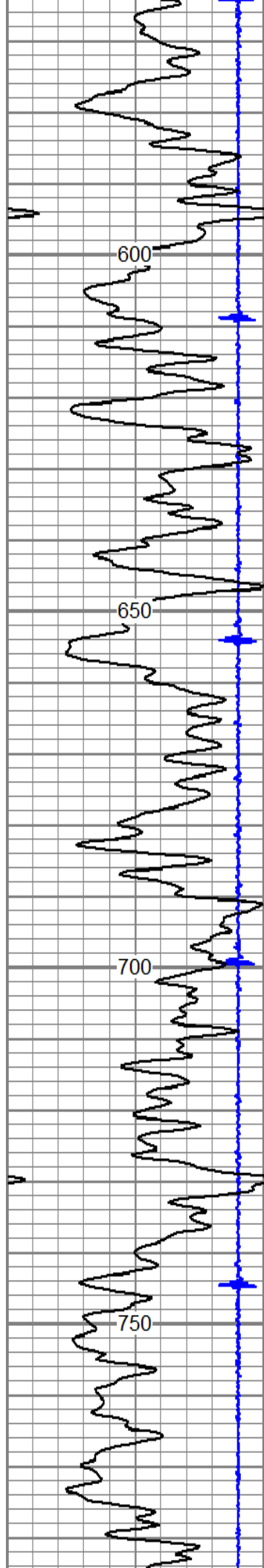
Database File: catamountcarpenter32-6-31srce.db  
 Dataset Pathname: fieldnacioblanco/wellcarpenter32-6-31s/run1/pass2  
 Presentation Format: cbl5inpl1  
 Dataset Creation: Thu May 28 08:57:14 2015  
 Charted by: Depth in Feet scaled 1:240



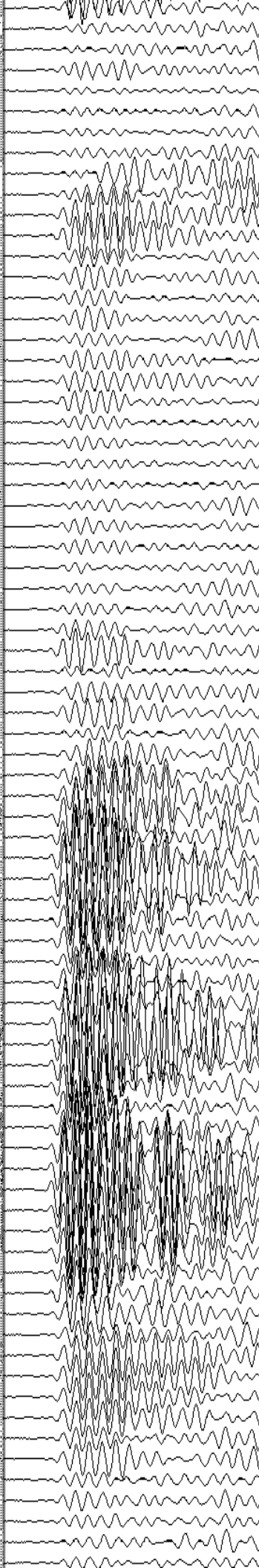
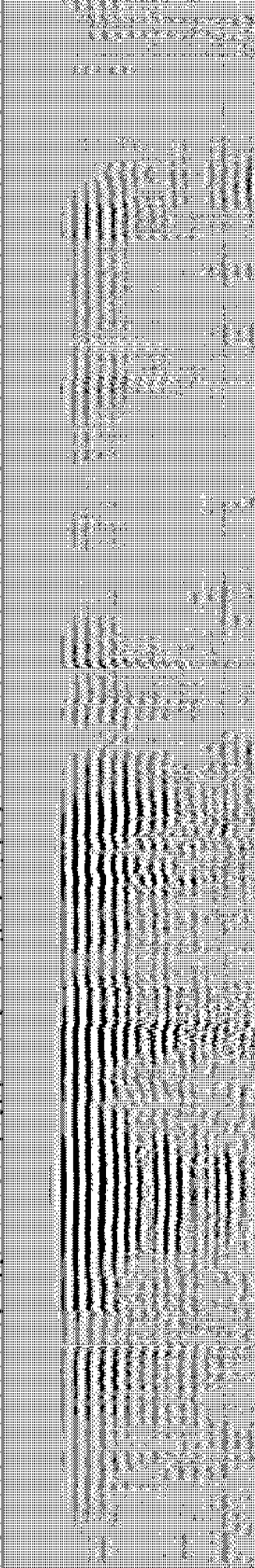
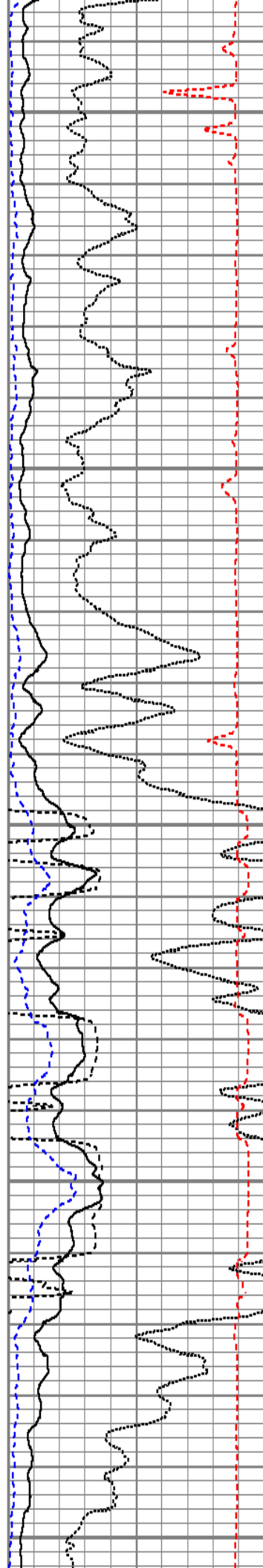
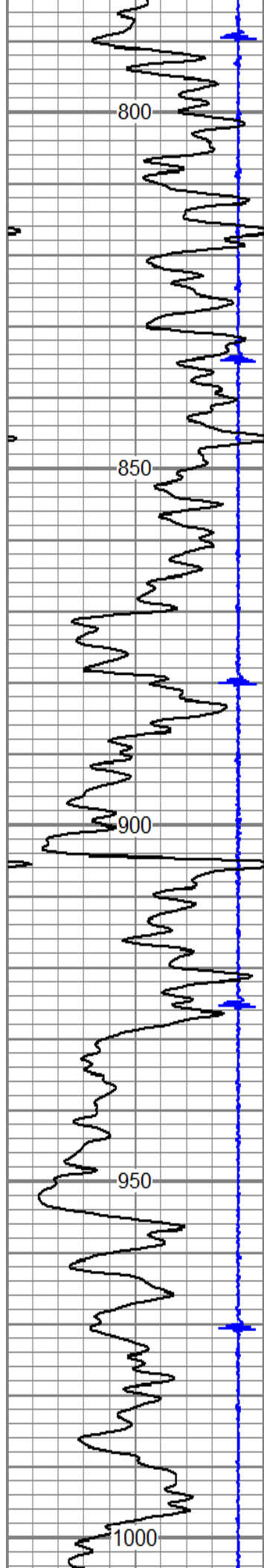


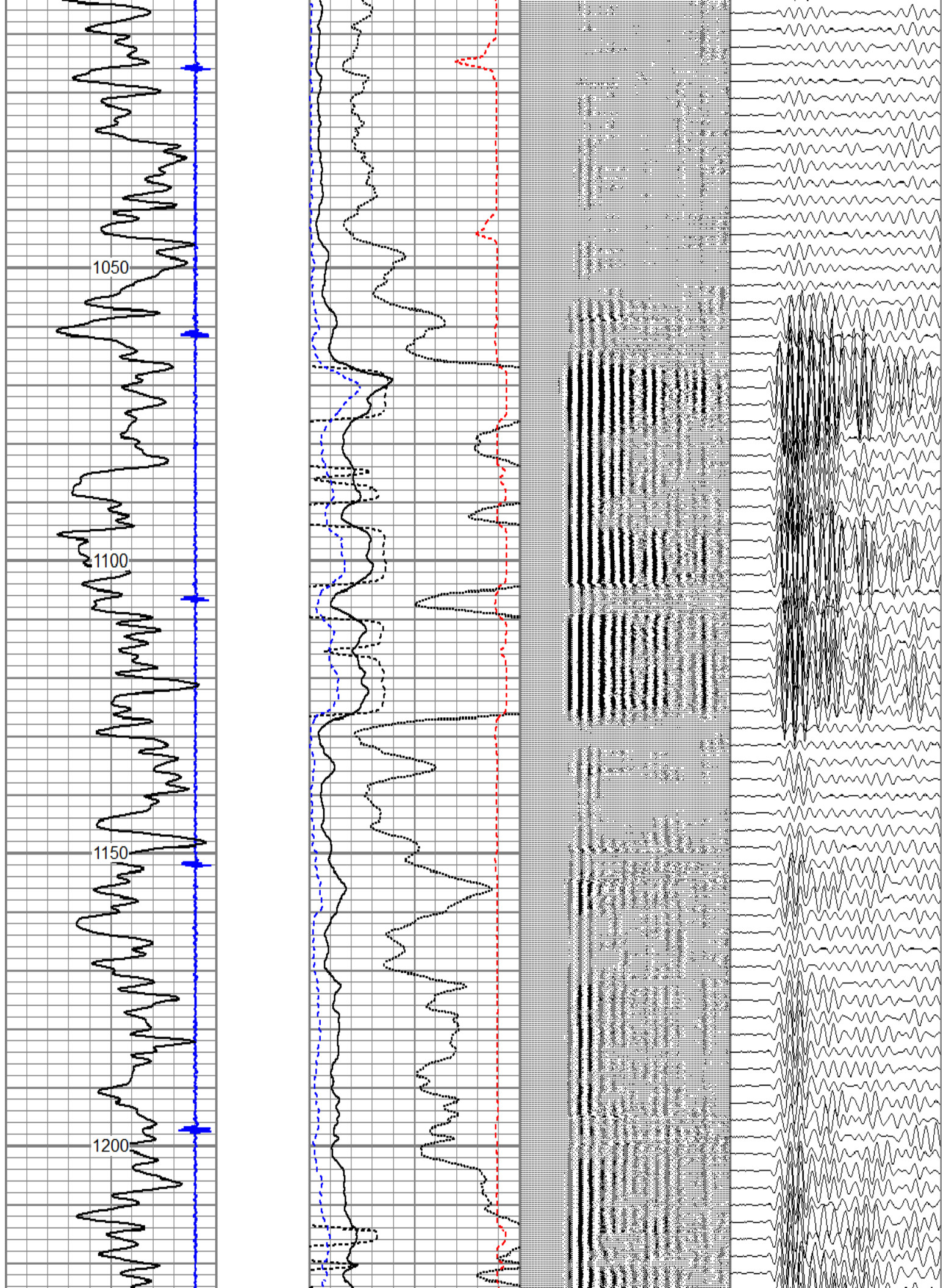




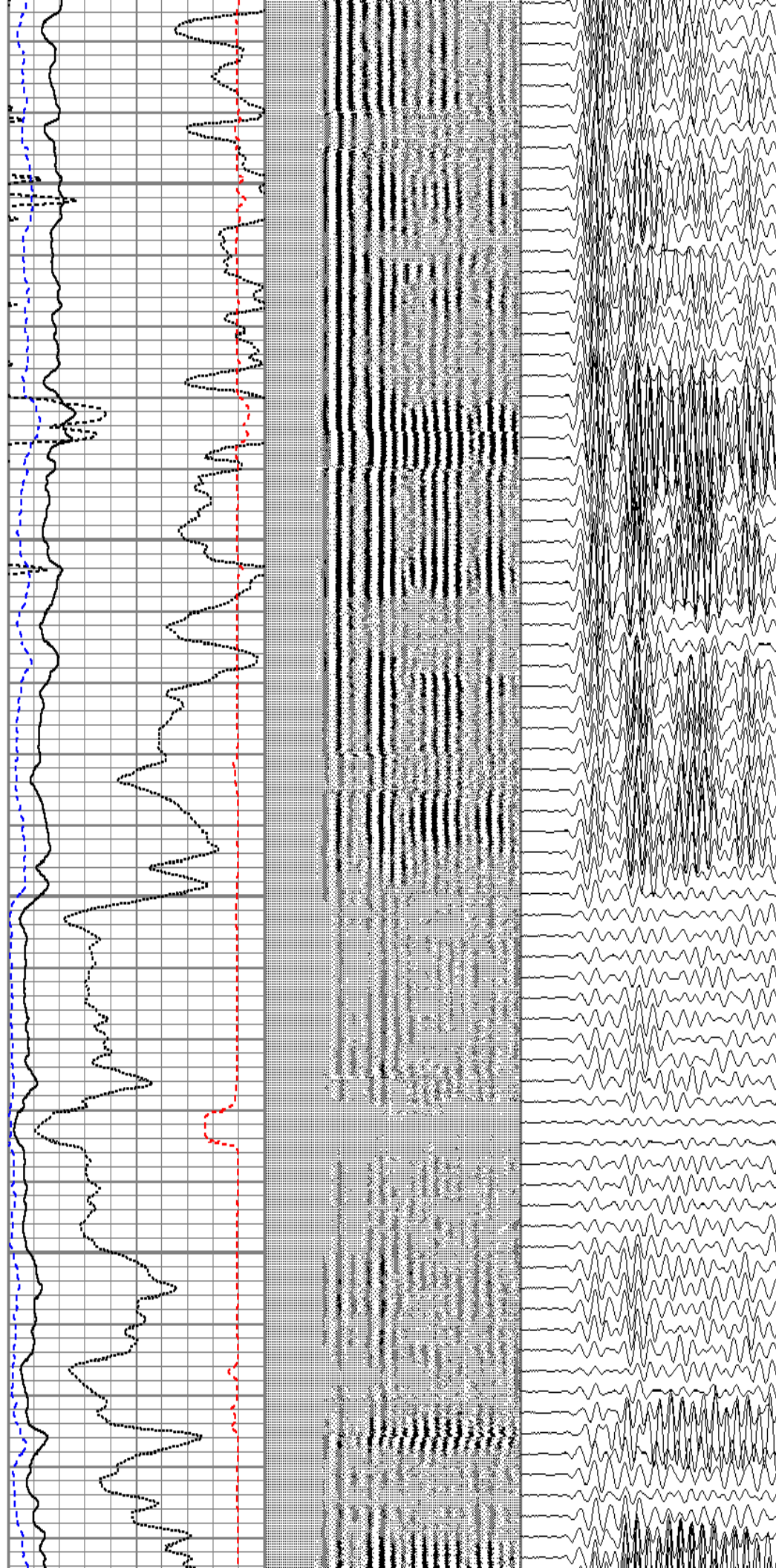
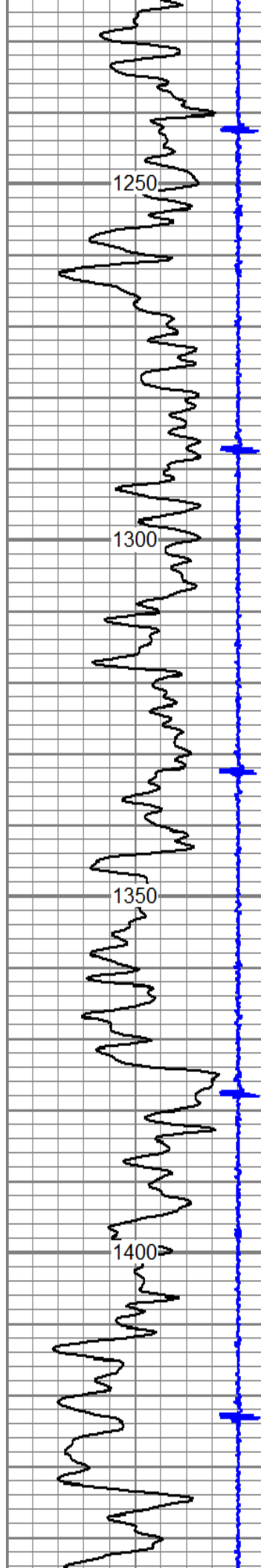


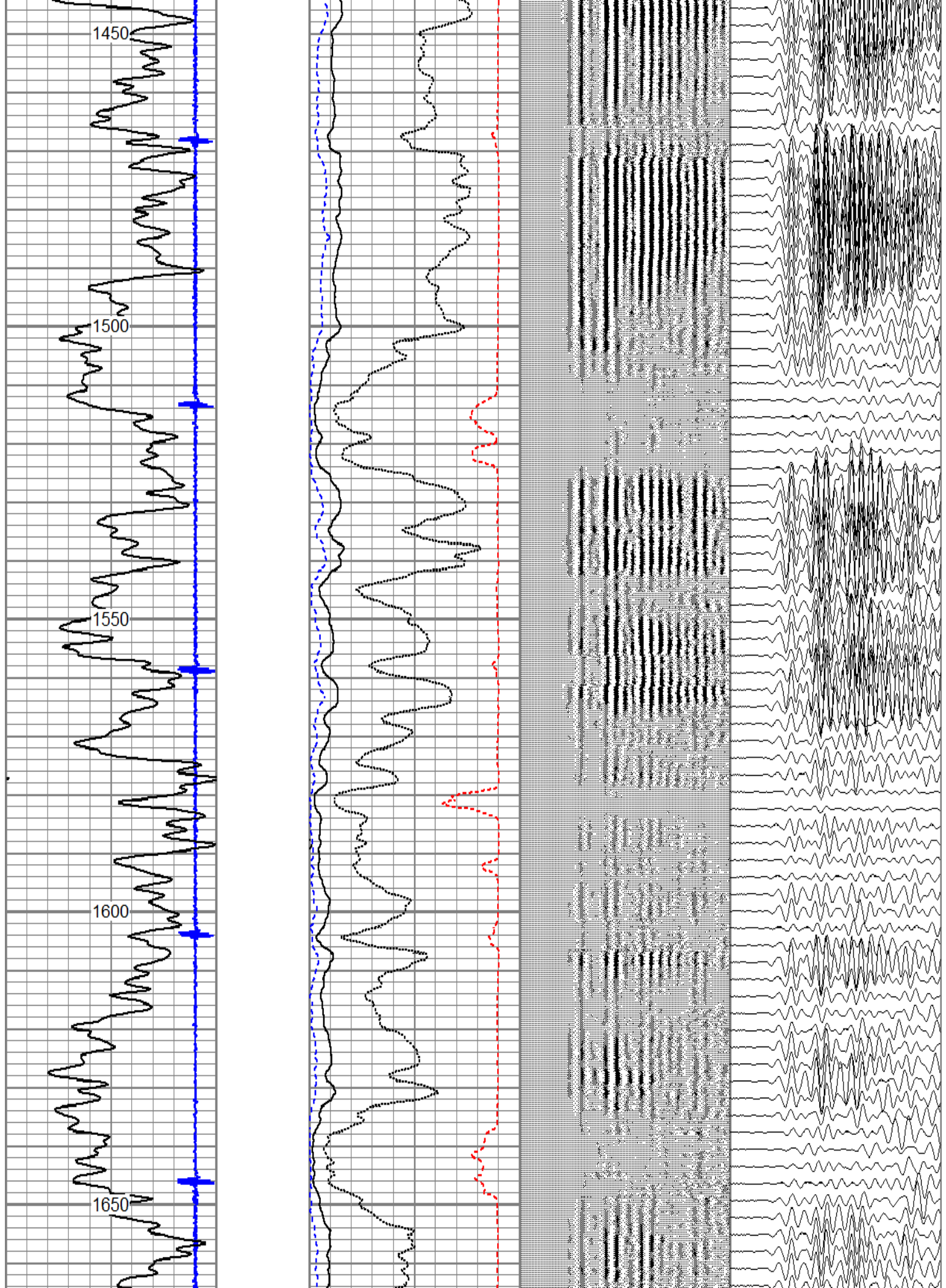




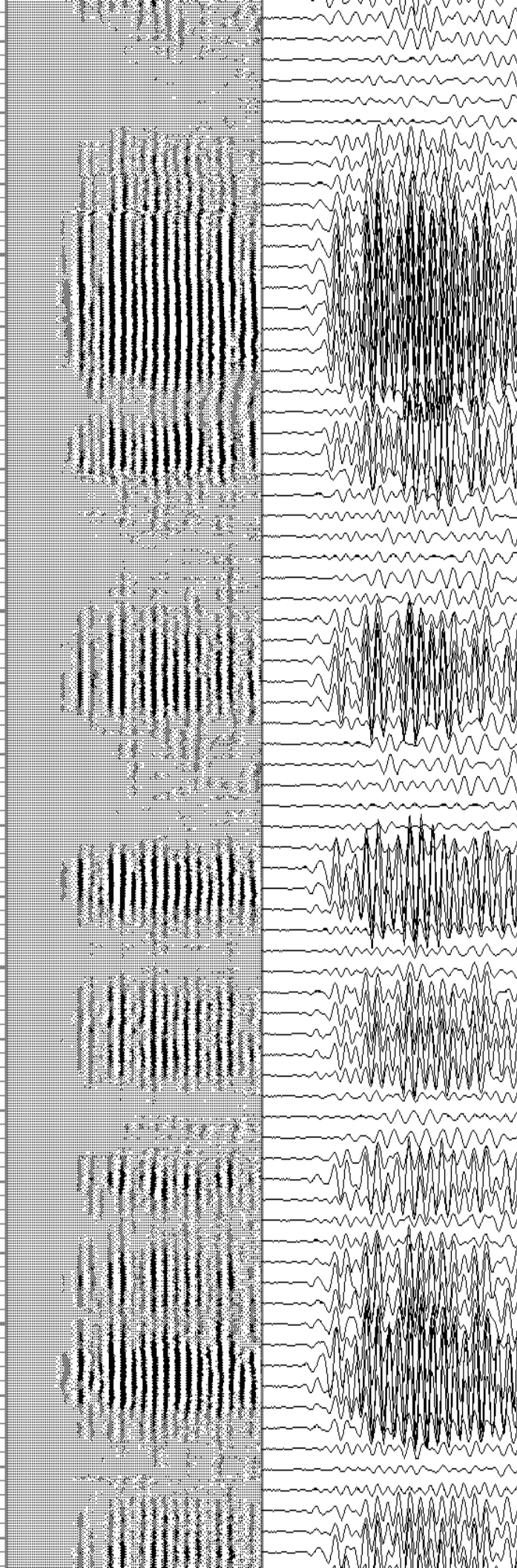
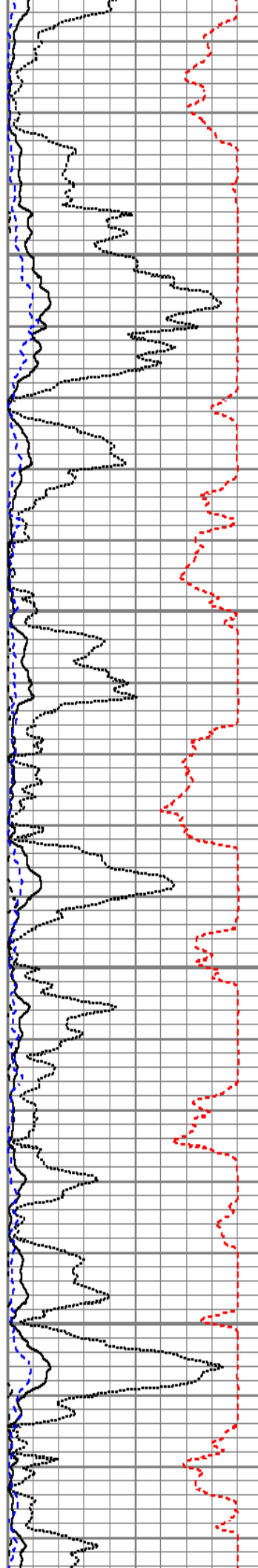
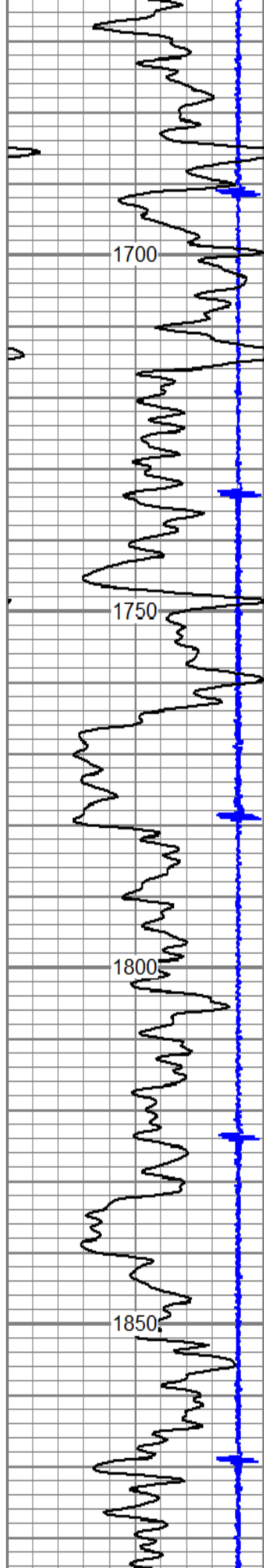


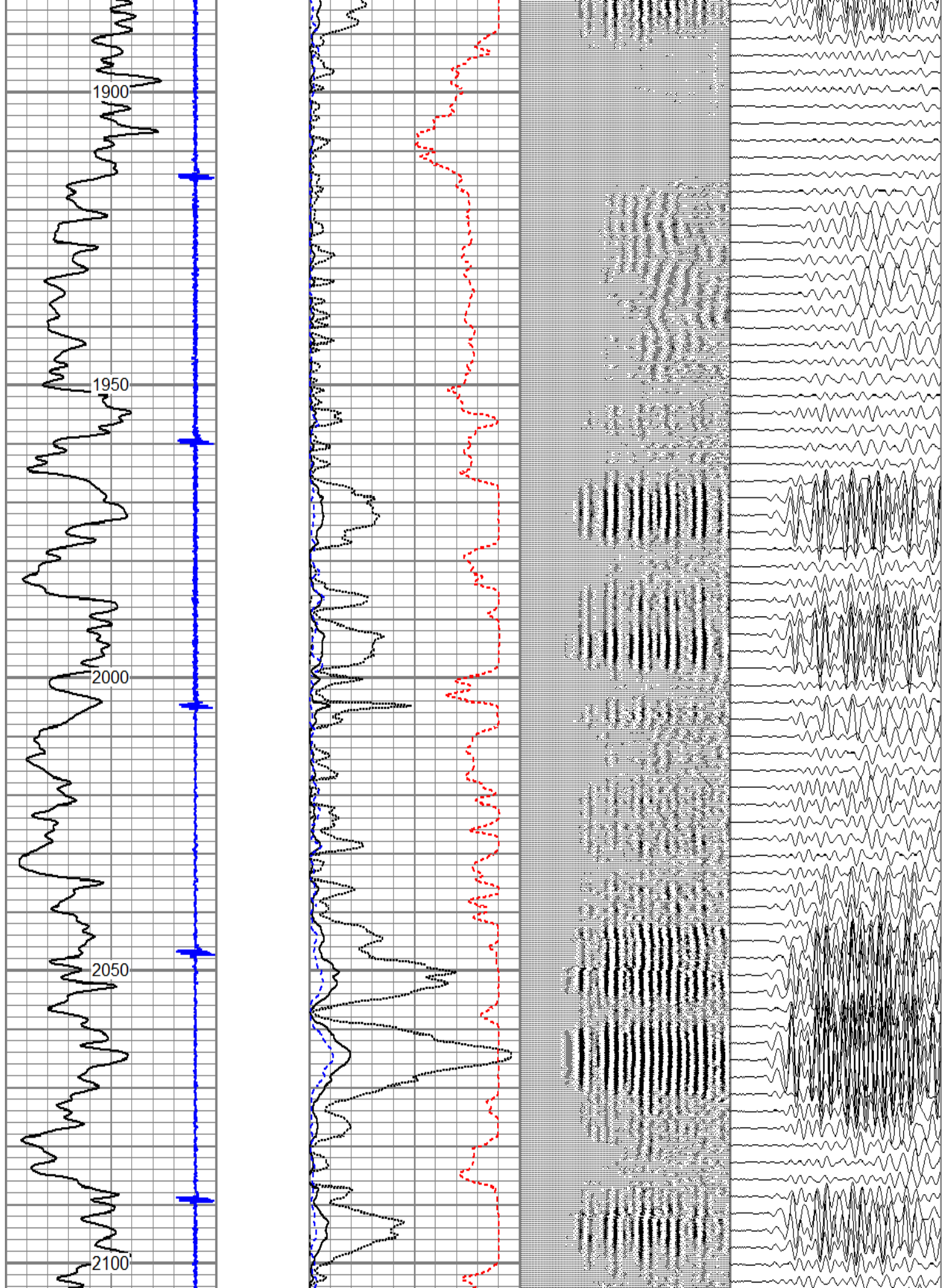




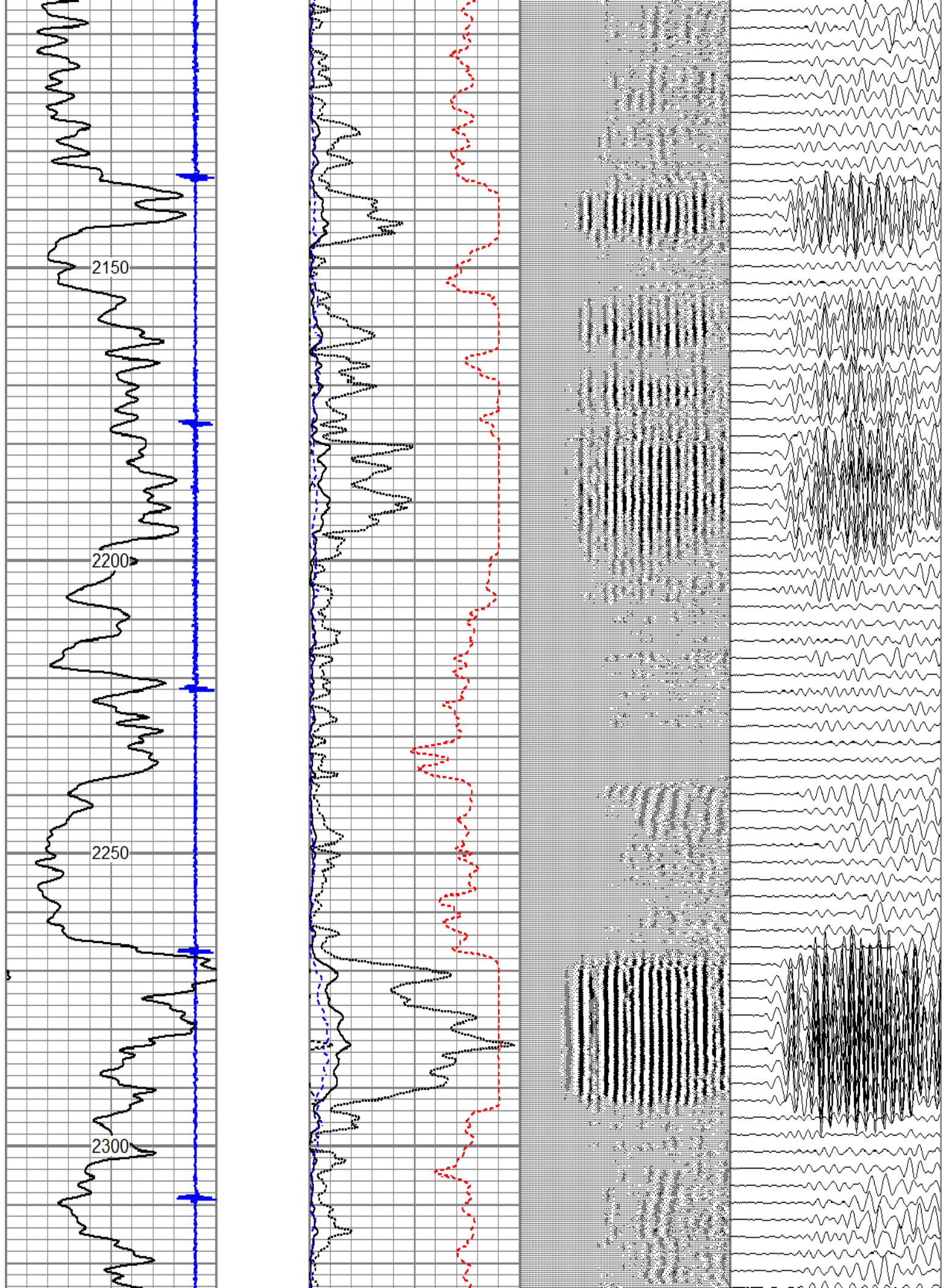


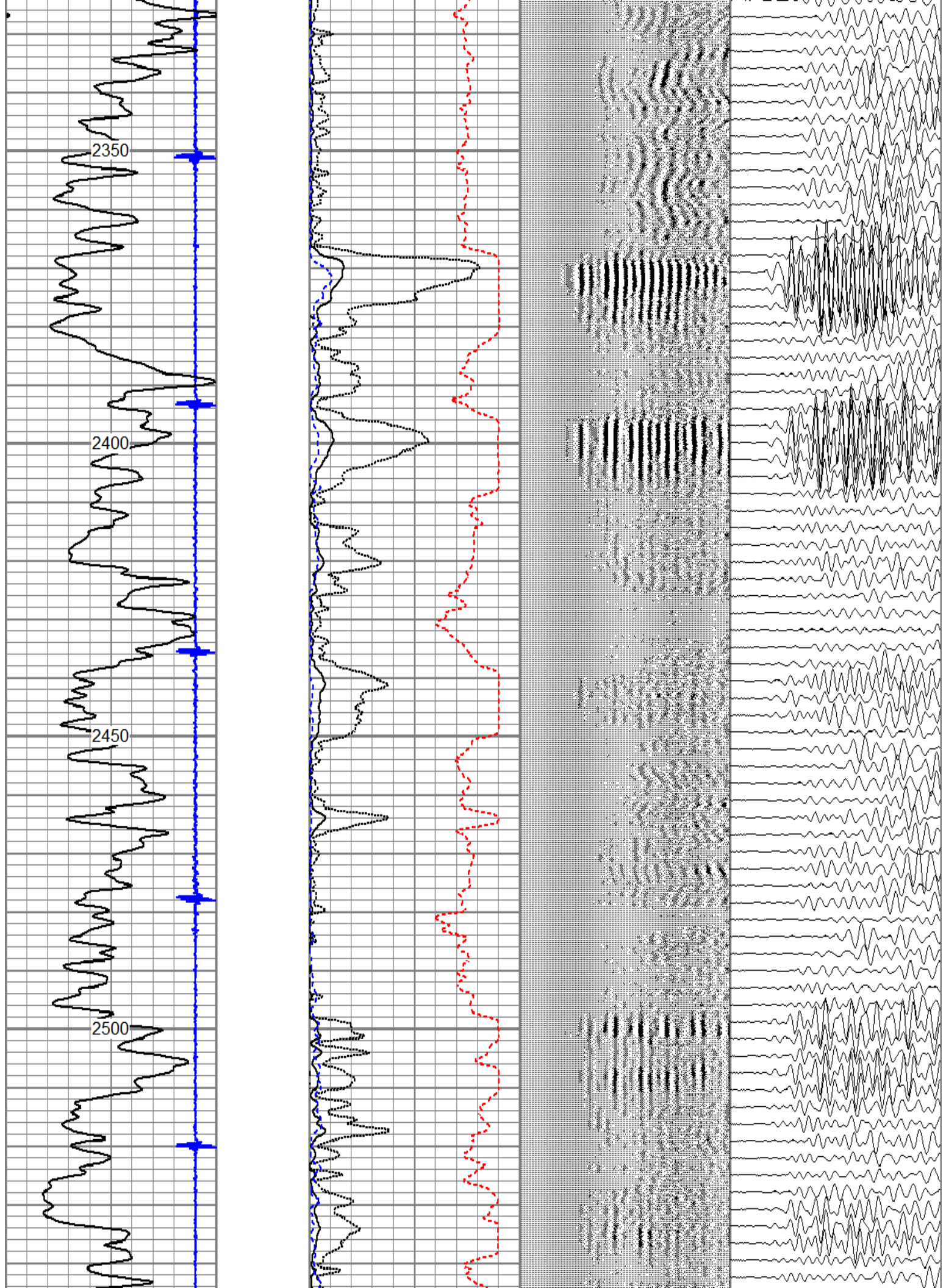




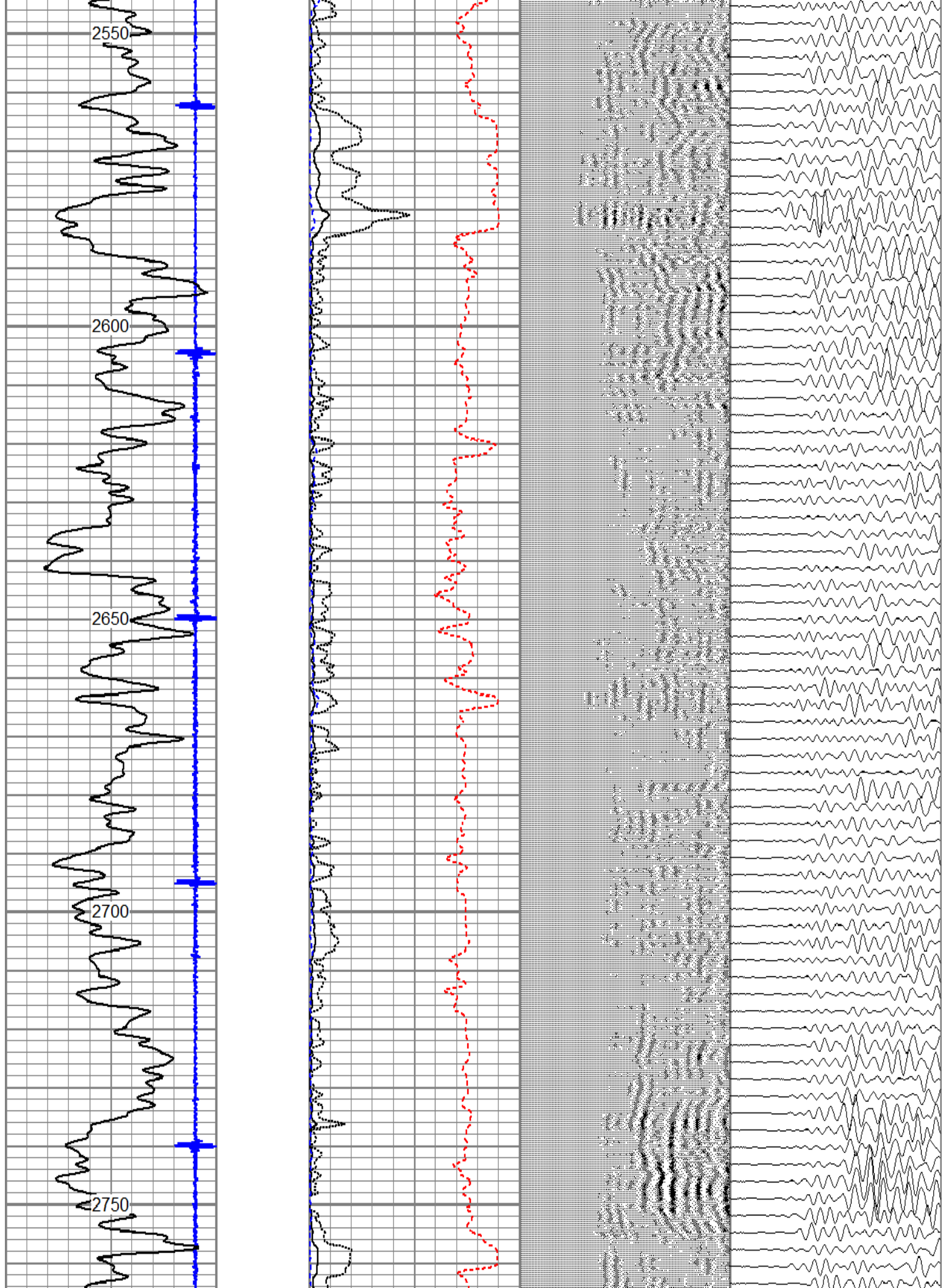


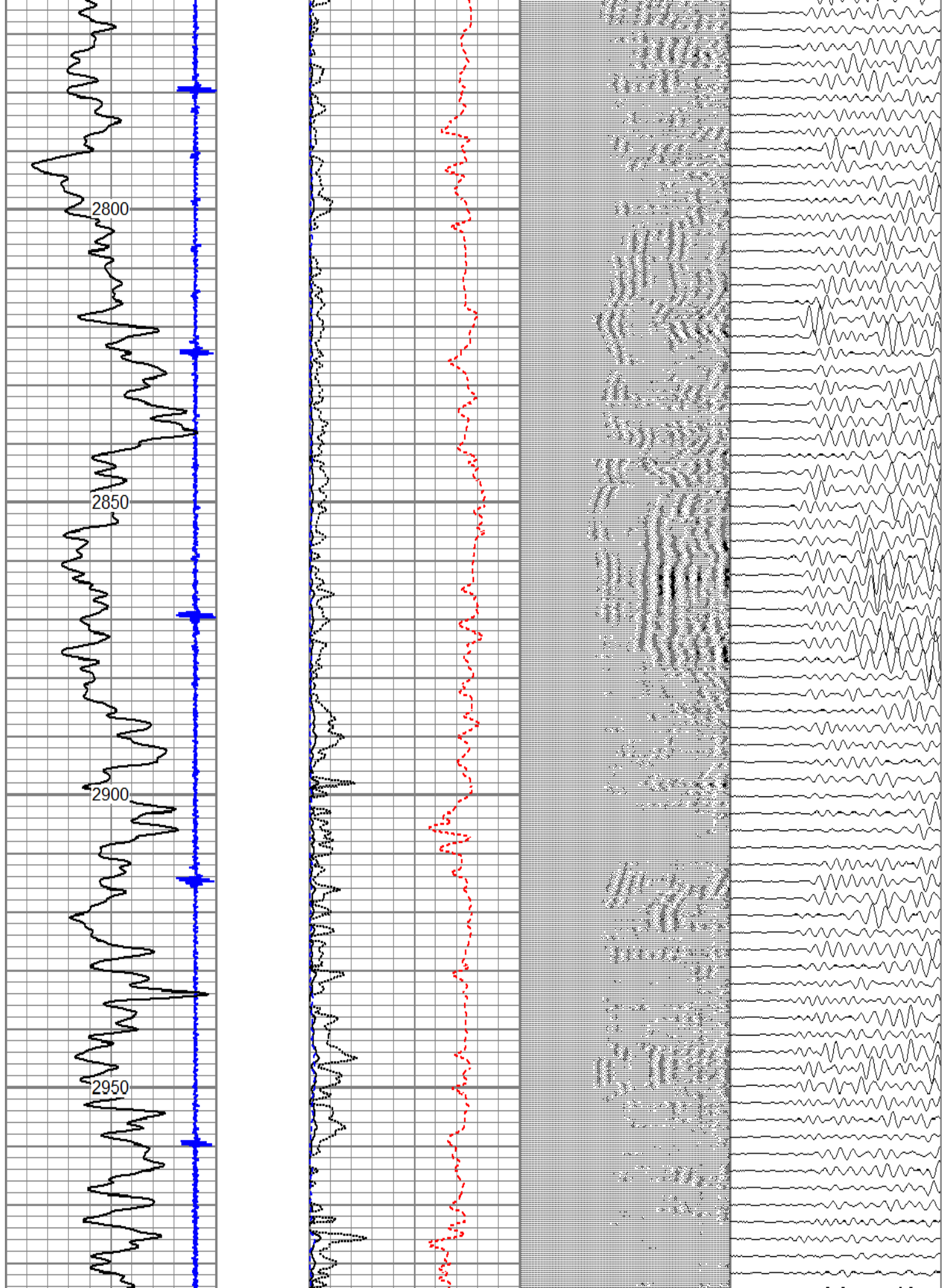




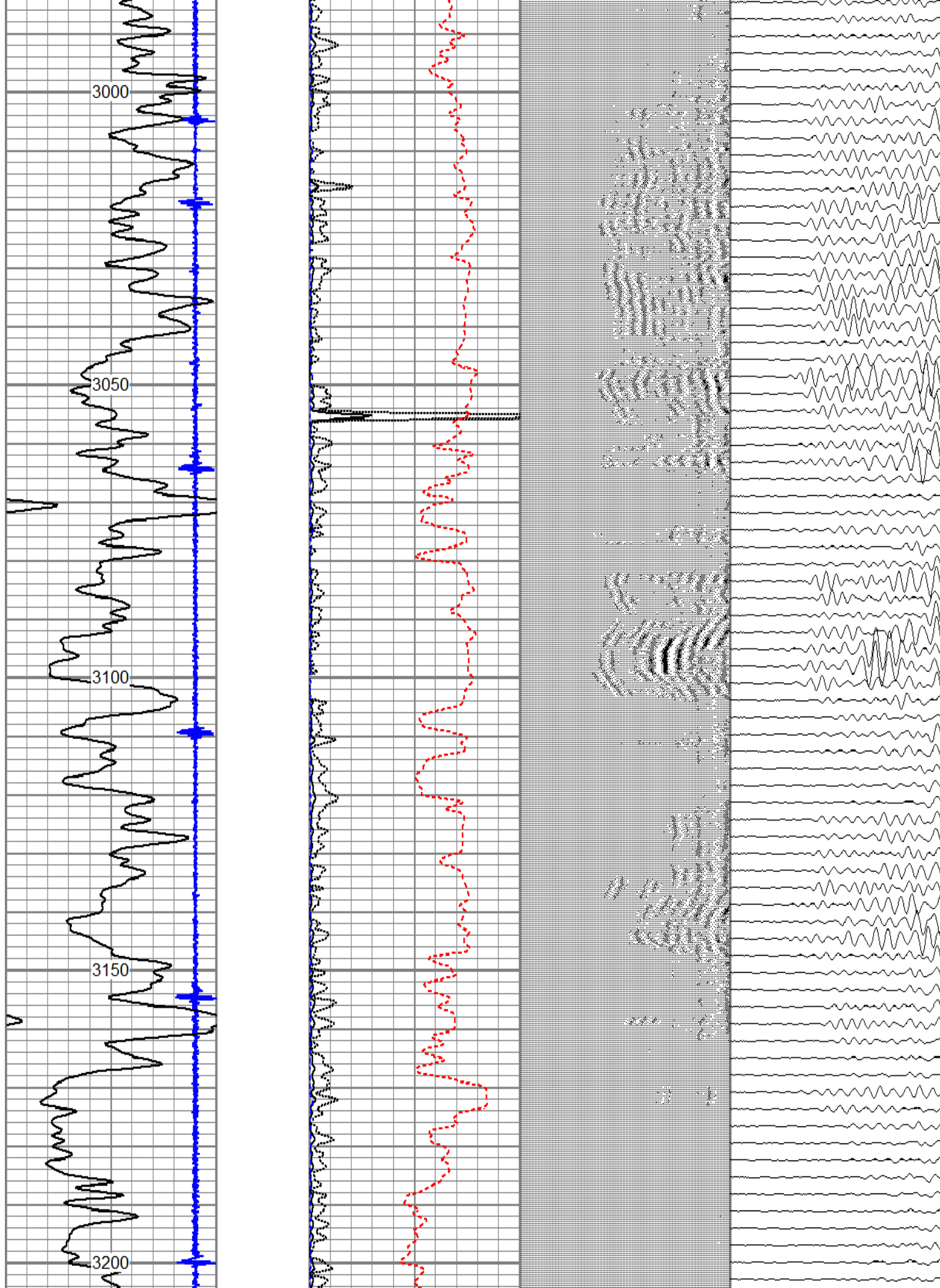


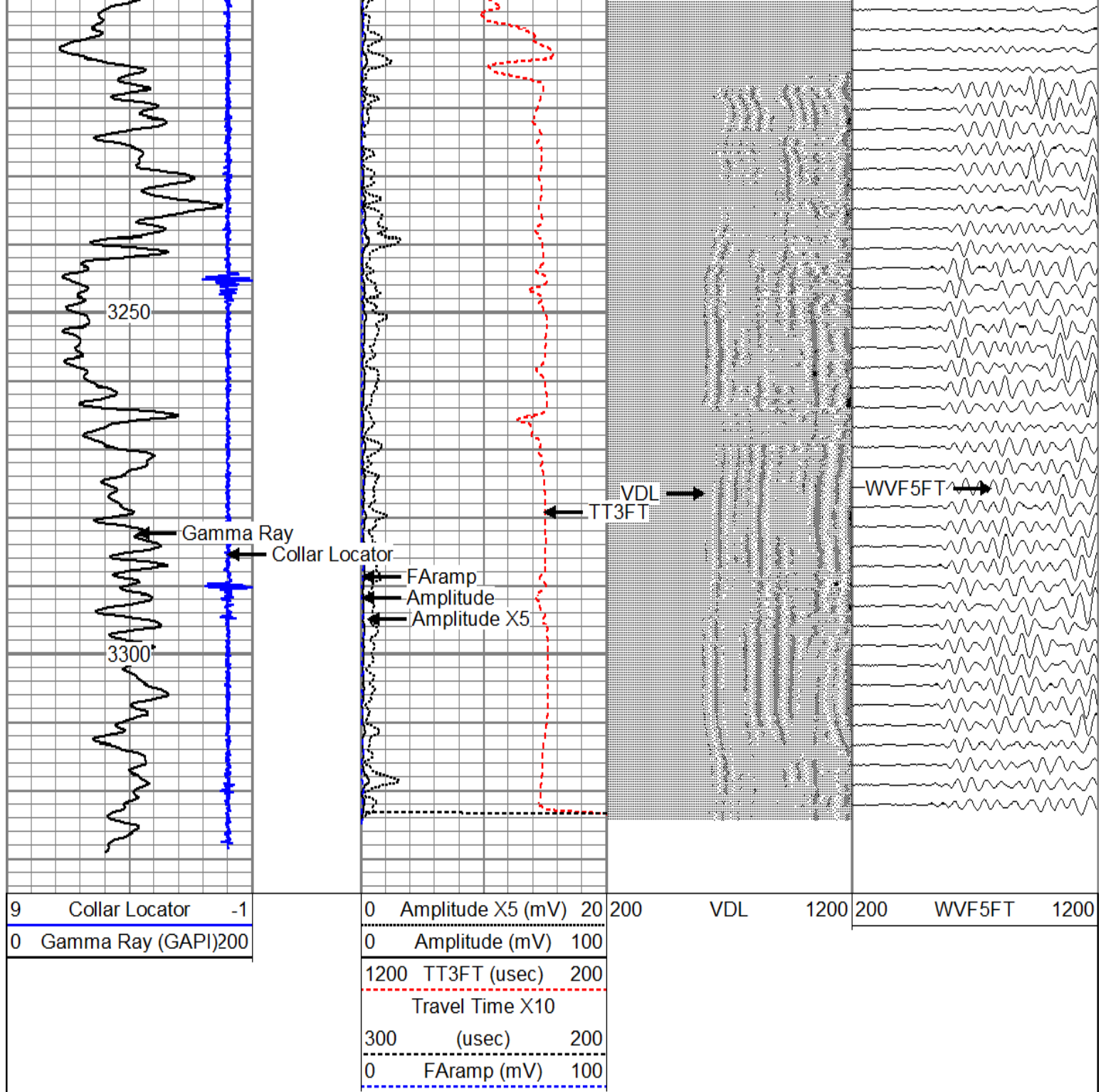












### Calibration Report

Database File catamountcarpenter32-6-31srce.db  
 Dataset Pathname fieldnacioblanco/wellcarpenter32-6-31s/run1/pass2  
 Dataset Creation Thu May 28 08:57:14 2015

### Gamma Ray Calibration Report

Serial Number: 060634  
 Tool Model: Probe  
 Performed: Thu May 28 07:57:48 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps



Sensitivity:

1.0000

GAPI/cps

## Segmented Cement Bond Log Calibration Report

Serial Number: 060632

Tool Model: Probe

Calibration Casing Diameter: 5.500 in

Calibration Depth: 0.000 ft

Master Calibration, performed Mon May 11 11:17:40 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.368	0.450	91.000	247.270	-0.087
CAL	0.346	0.345				
5'	0.004	0.352	0.450	91.000	260.166	-0.493
SUM						
S1	0.006	0.366	0.000	91.000	253.217	-1.610
S2	0.003	0.376	0.000	91.000	244.129	-0.781
S3	0.002	0.387	0.000	91.000	236.508	-0.557
S4	0.003	0.402	0.000	91.000	228.539	-0.770
S5	0.003	0.381	0.000	91.000	241.027	-0.724
S6	0.003	0.353	0.000	91.000	259.783	-0.793
S7	0.003	0.344	0.000	91.000	267.252	-0.858
S8	0.003	0.353	0.000	91.000	260.000	-0.797

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.346	0.345	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	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	0.000		0.000		0.000	
S8	0.000		0.000		0.000	