



PIONEER

Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company **BRISCOE PETROLEUM, LLC**

Well **TAMMY #1**

Field **GROENDYKE**

County **BARBER** State **KANSAS**

Location: API #: 15-007-24368-00-00

Other Services

SEC 35 TWP 33S RGE 12W

Permanent Datum **GROUND LEVEL** Elevation **1580'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 1593'
D.F. N/A
G.L. 1580'

Company **BRISCOE PETROLEUM, LLC**
Well **TAMMY #1**
Field **GROENDYKE**
County **BARBER**
State **KANSAS**

Date **6/28/2020**

Run Number **TWO**

Type Log **BHCS**

Depth Driller **5320'**

Depth Logger **5319'**

Bottom Logged Interval **5307'**

Top Logged Interval **200'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **5000**

Density **9.4**

Level **FULL**

Max. Rec. Temp. F **129**

Operating Rig Time **5 HOURS**

Equipment -- Location **P-24 HAYS**

Recorded By **D. SCHMIDT**

Witnessed By **STEVE MURPHY**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	237'	8.625"	23#	0'	237'
TWO	7.875"	237'	TD				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

MEDICINE LODGE,
SOUTH TO GERLANE, 2 3/4 WEST AND SOUTHWEST,
1/4 SOUTH INTO

Log Measured From: **KELLY BUSHING** 13 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: **D. SCHMIDT**
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: **STEVE MURPHY**
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-PENGO (3-PENGO)	5.50	3.00	70.00
WVF4 WVF1	13.50 13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	11.50 11.50					
			CENT-PENGO (4-PENGO)	5.50	3.00	70.00
Dataset: briscoe_tammy 1.db: field/well/SON/pass2 Total length: 27.00 ft Total weight: 440.00 lb O.D.: 3.50 in						

Log Variables

Database C:\ProgramData\Warrior\Data\briscoe_tammy 1.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

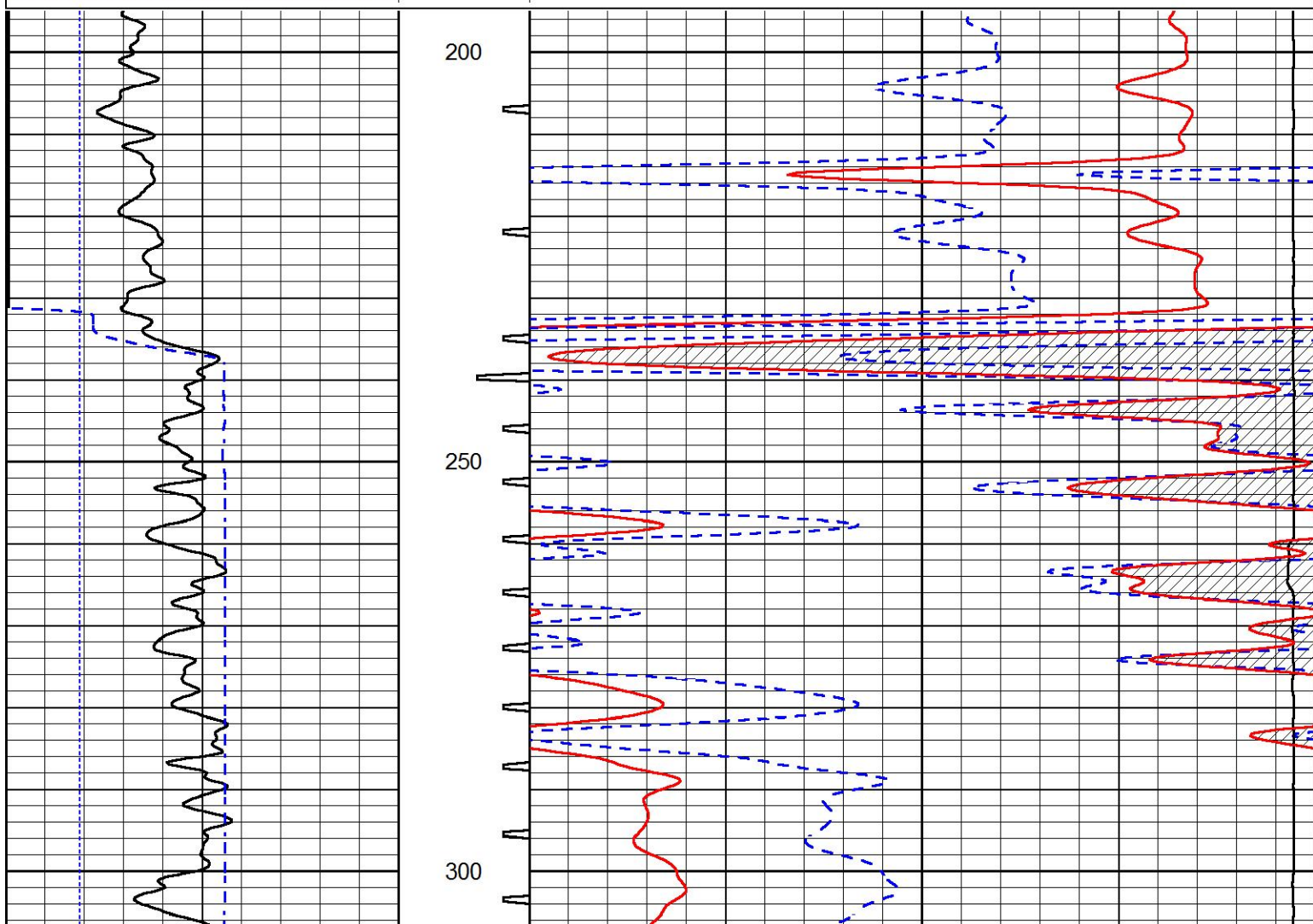
A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	100	4.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	340	0		0

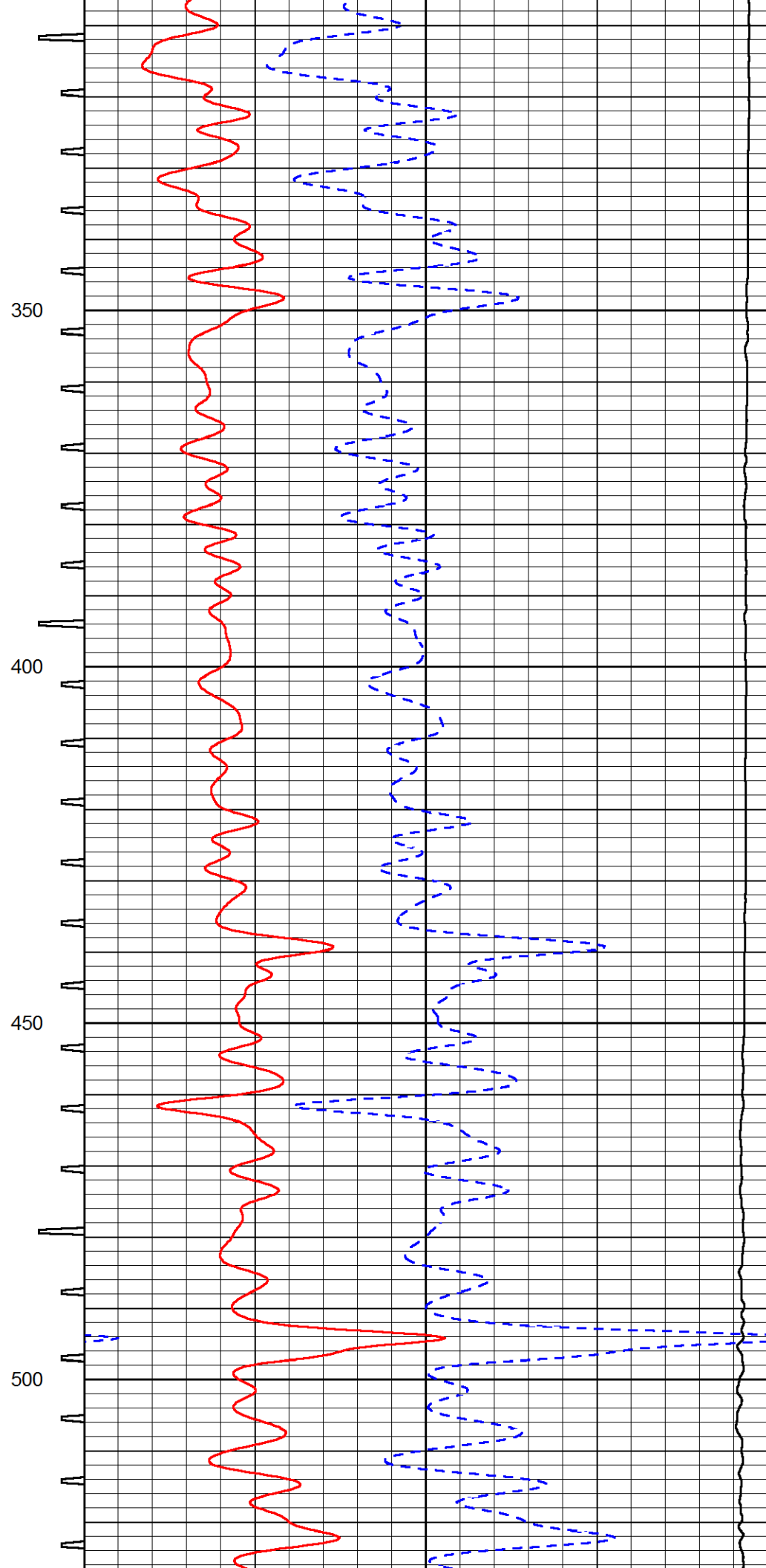
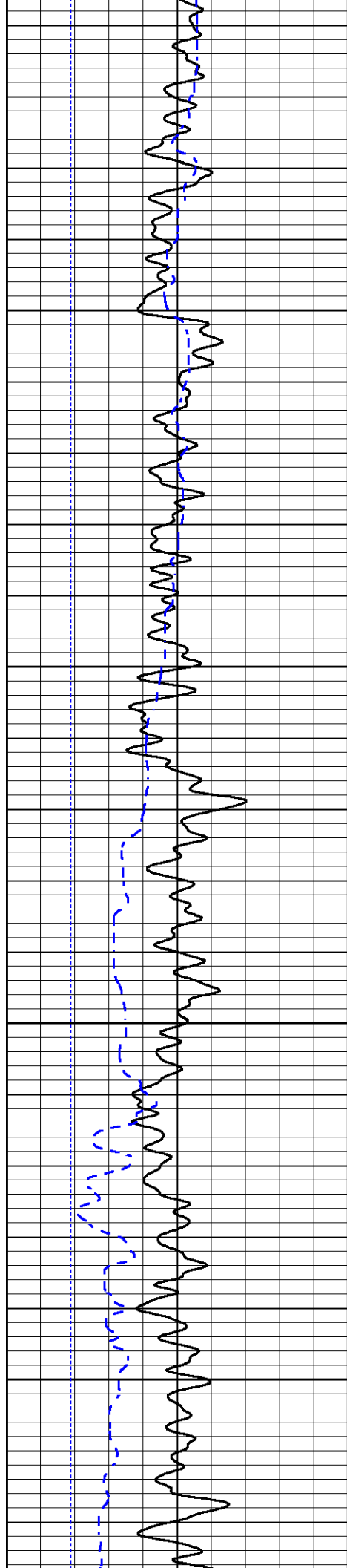


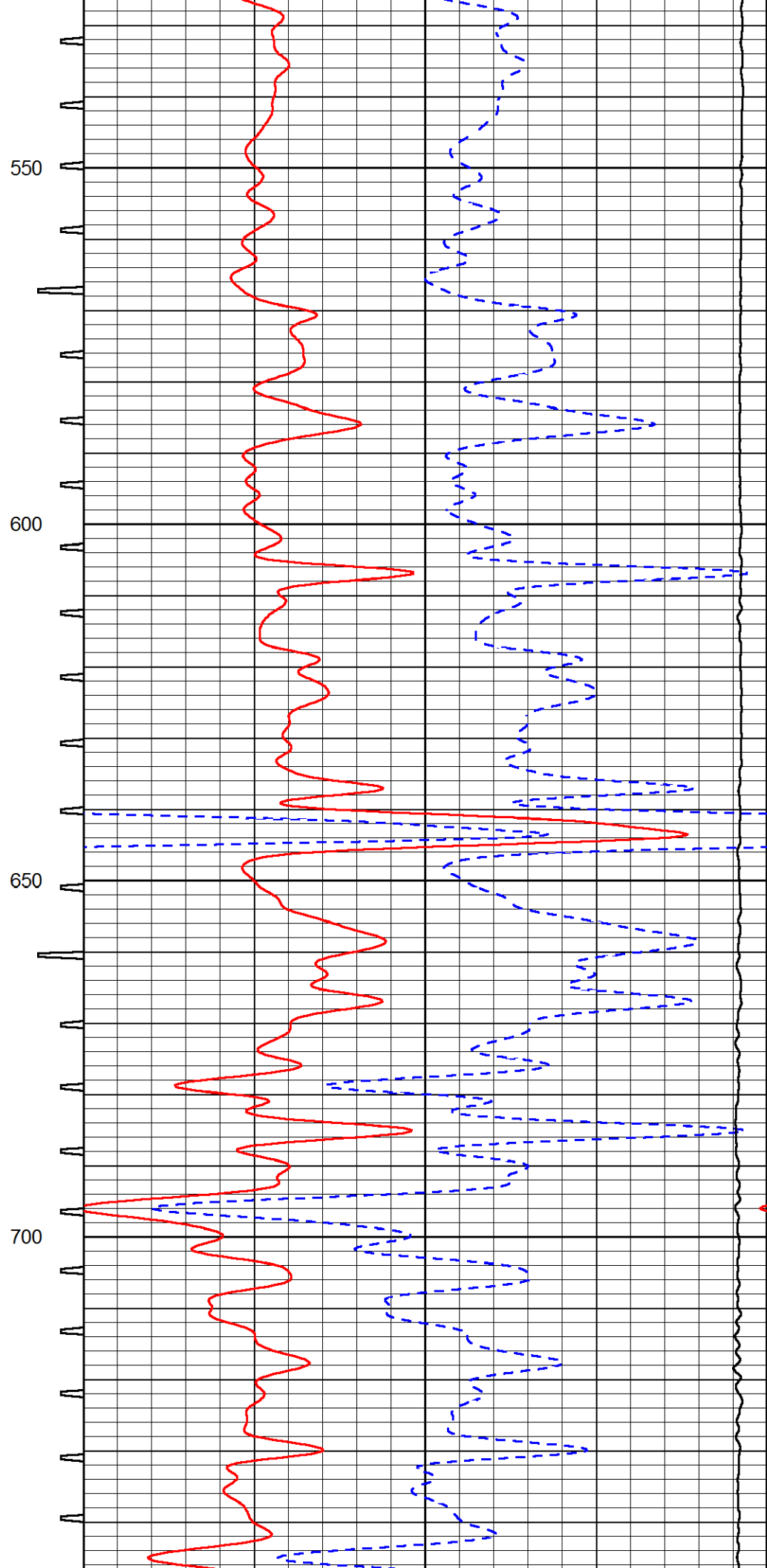
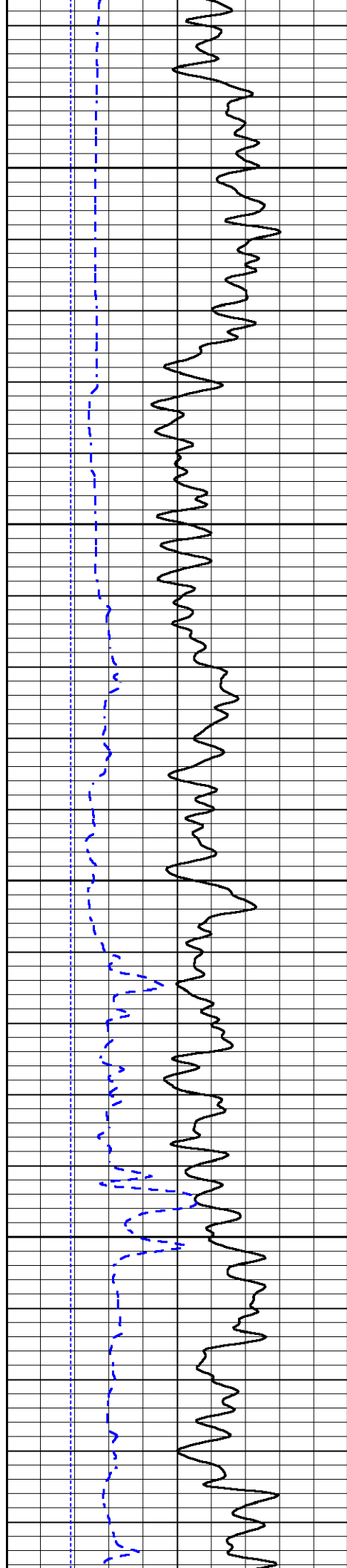
MAIN PASS

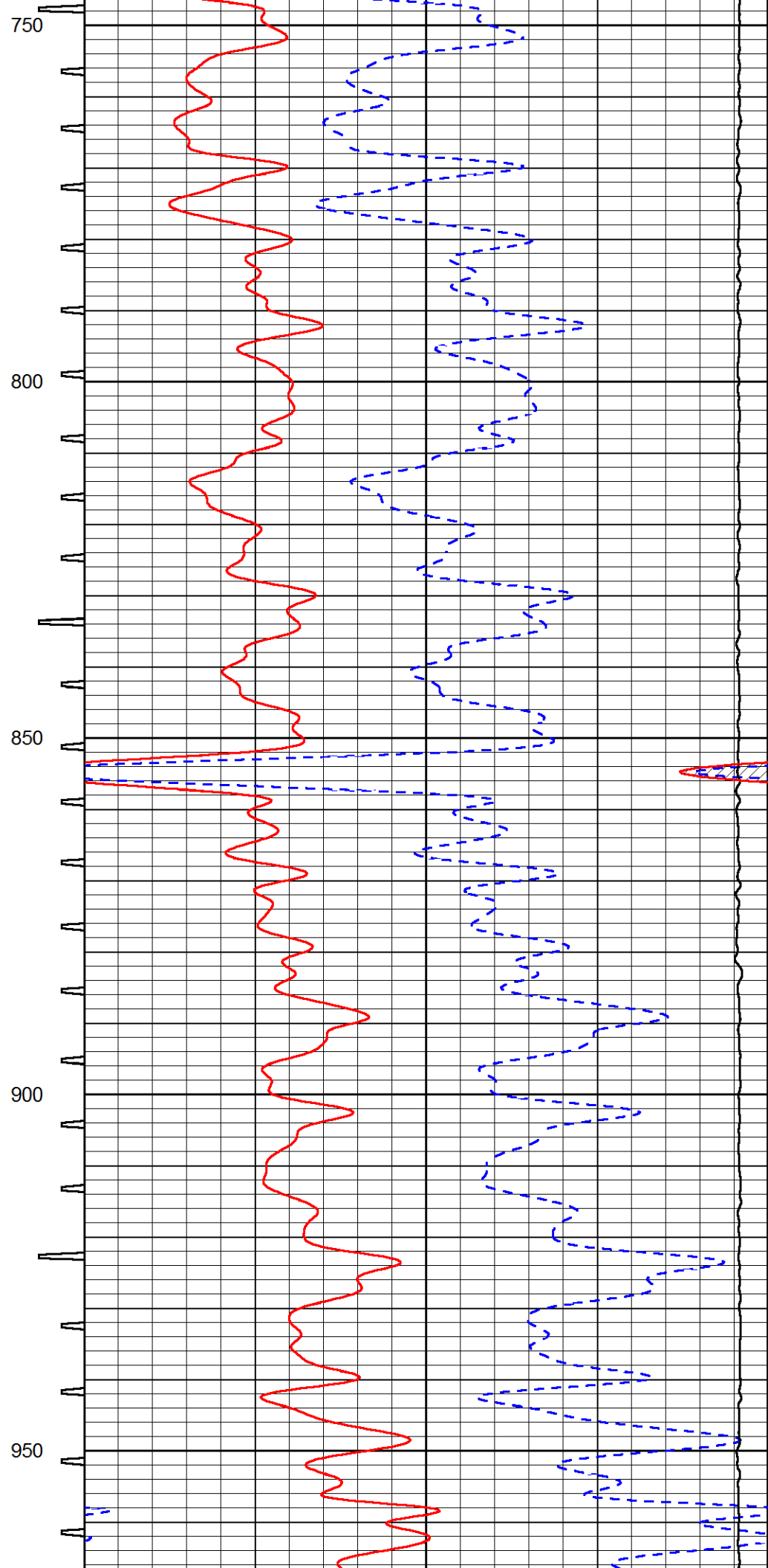
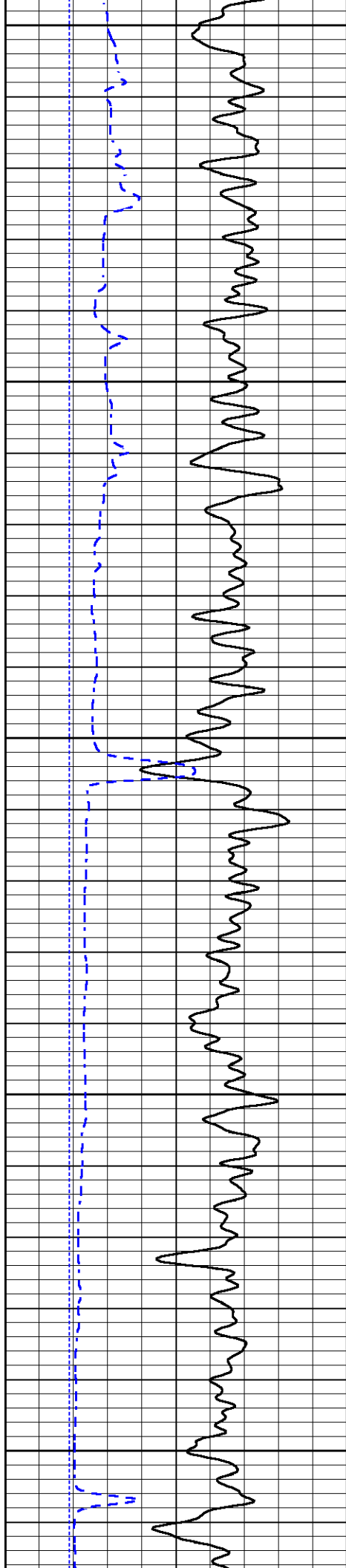
Database File briscoe_tammy 1.db
Dataset Pathname STKML/pass3.1
Presentation Format _sonic
Dataset Creation Sun Jun 28 10:20:58 2020
Charted by Depth in Feet scaled 1:240

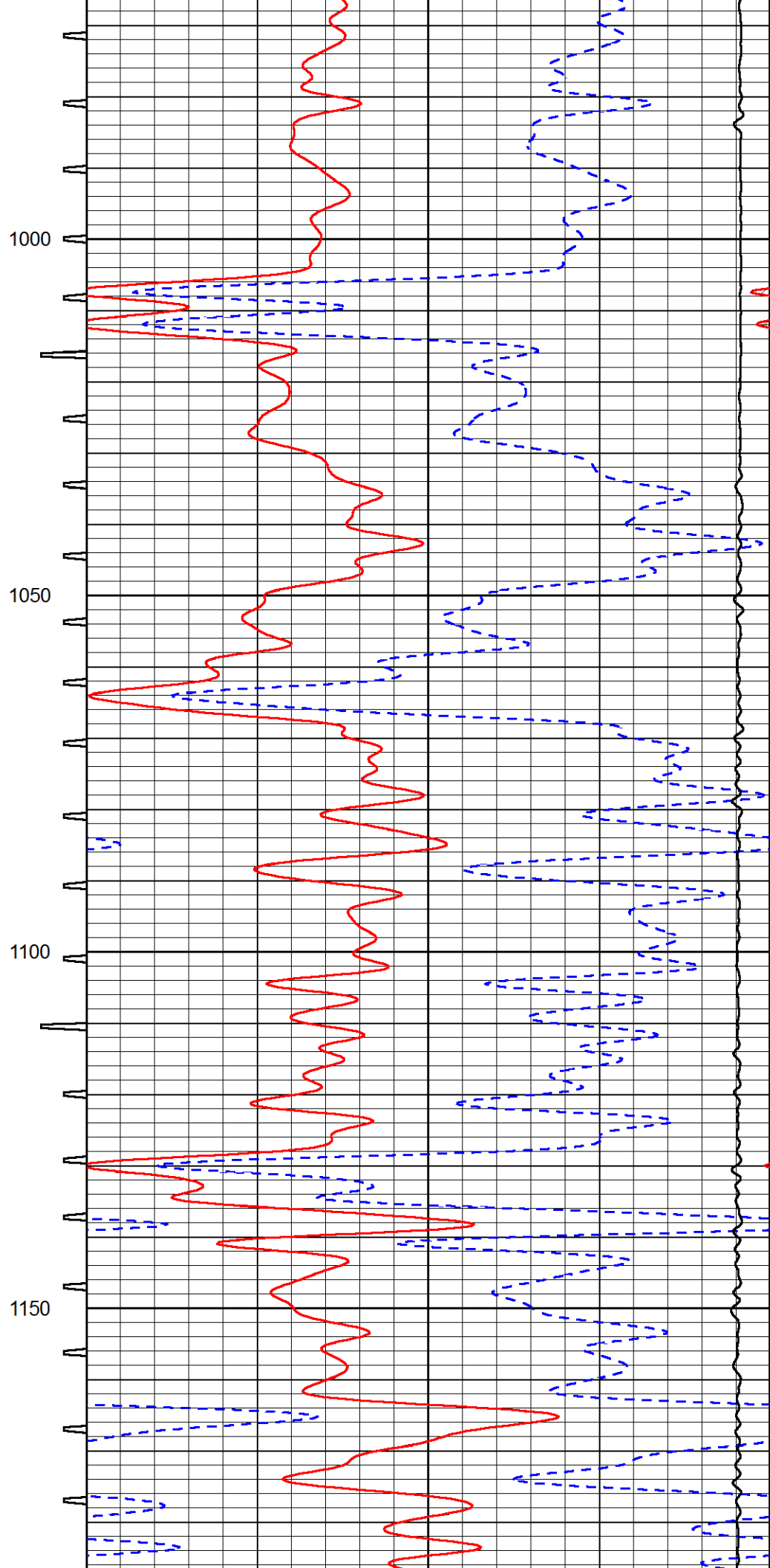
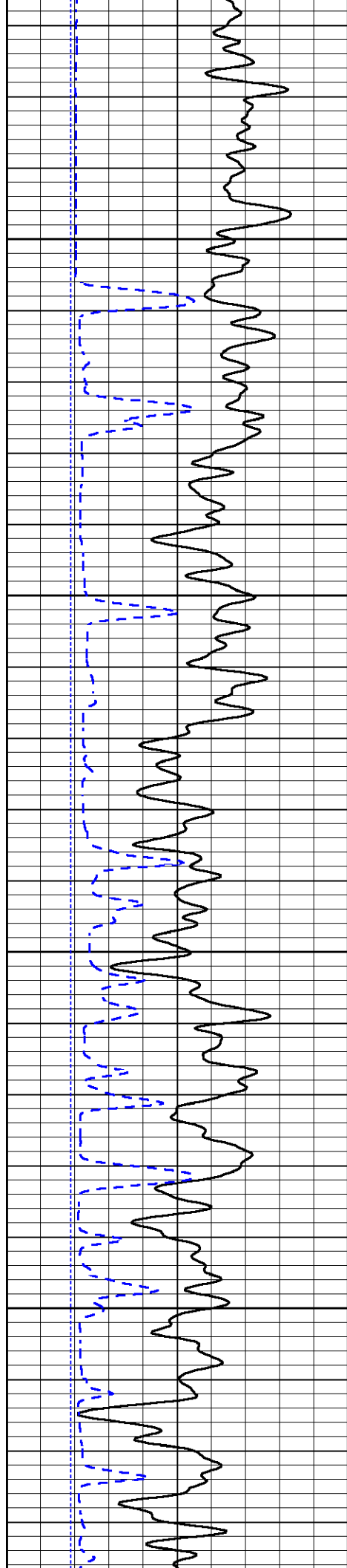
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

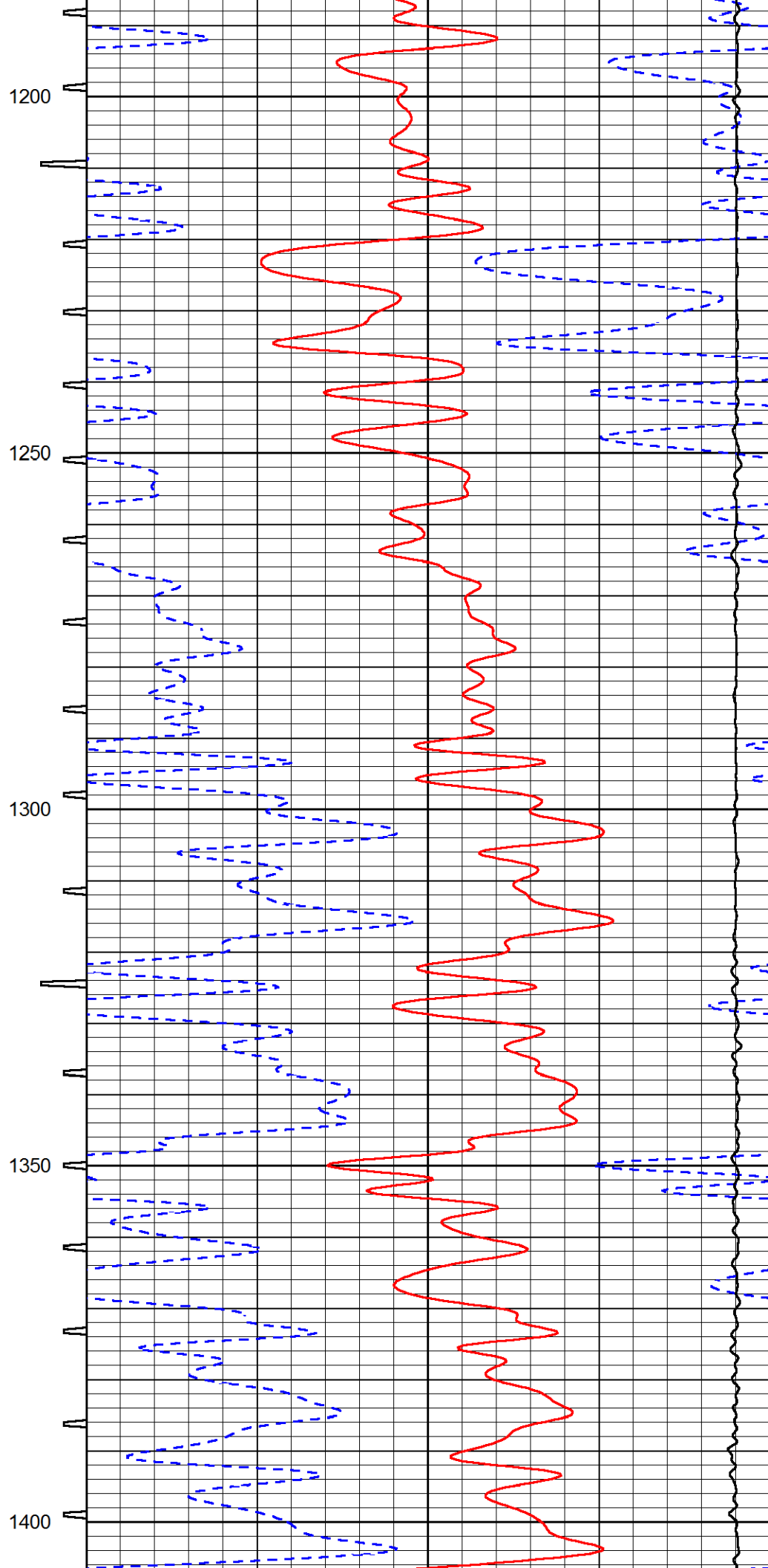
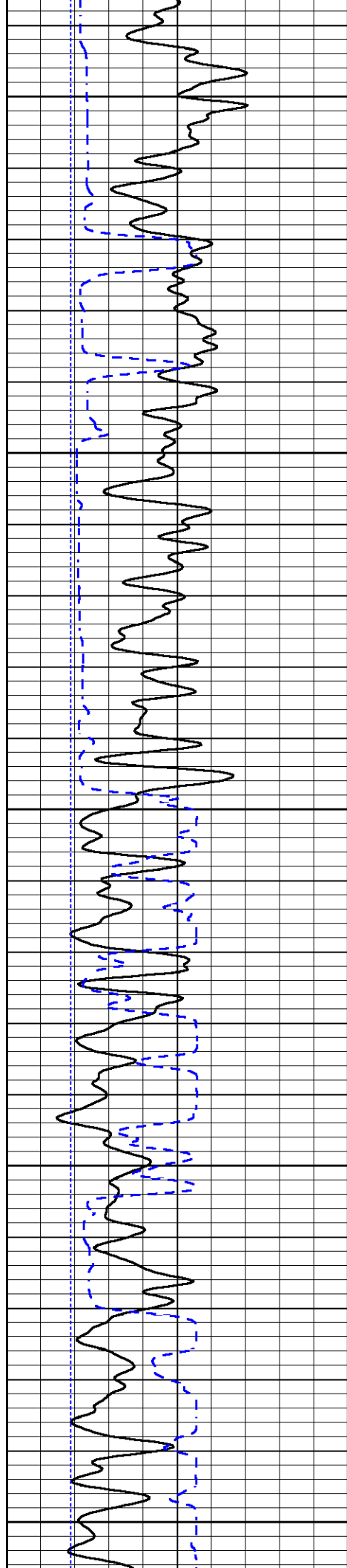


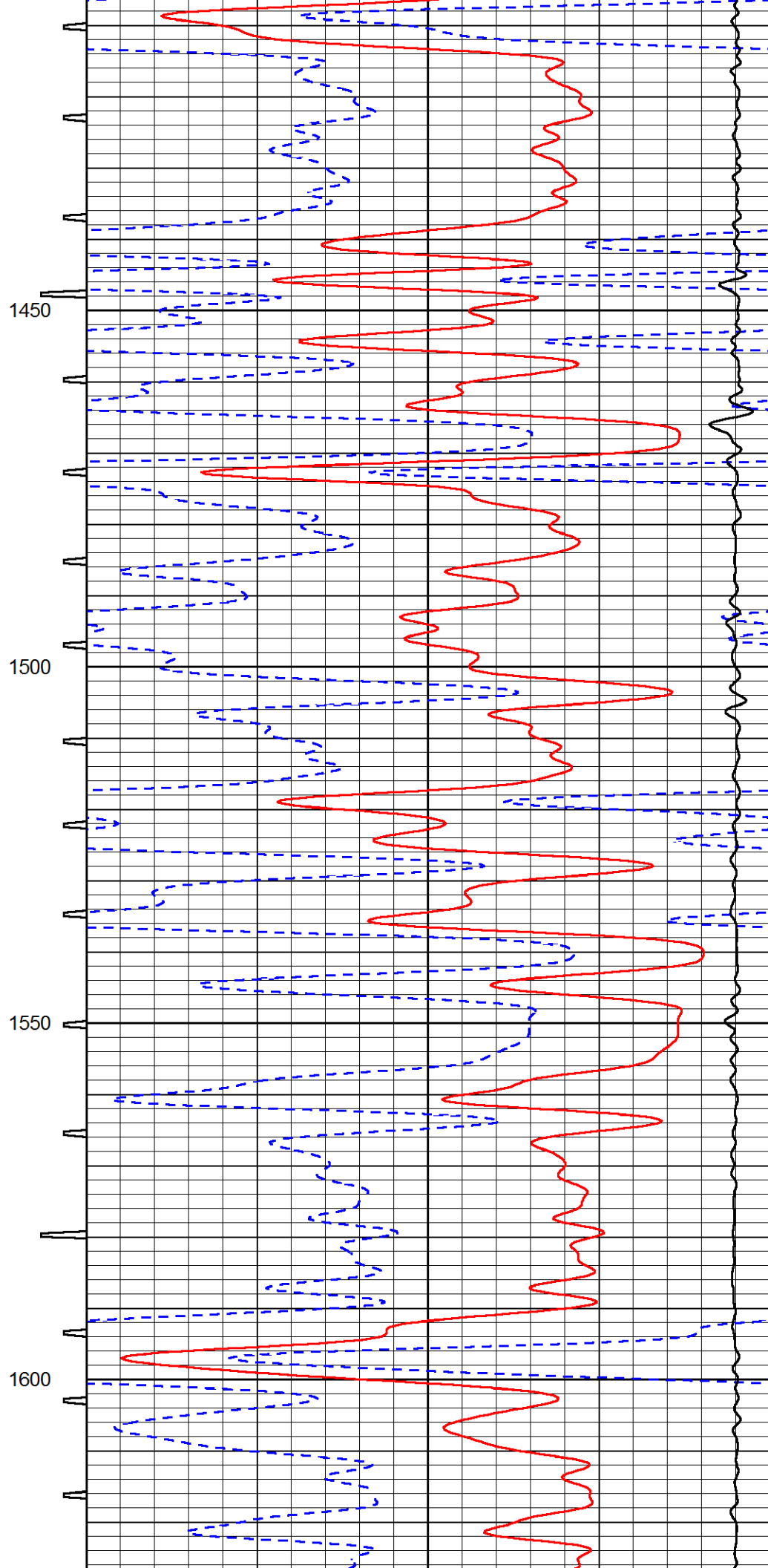
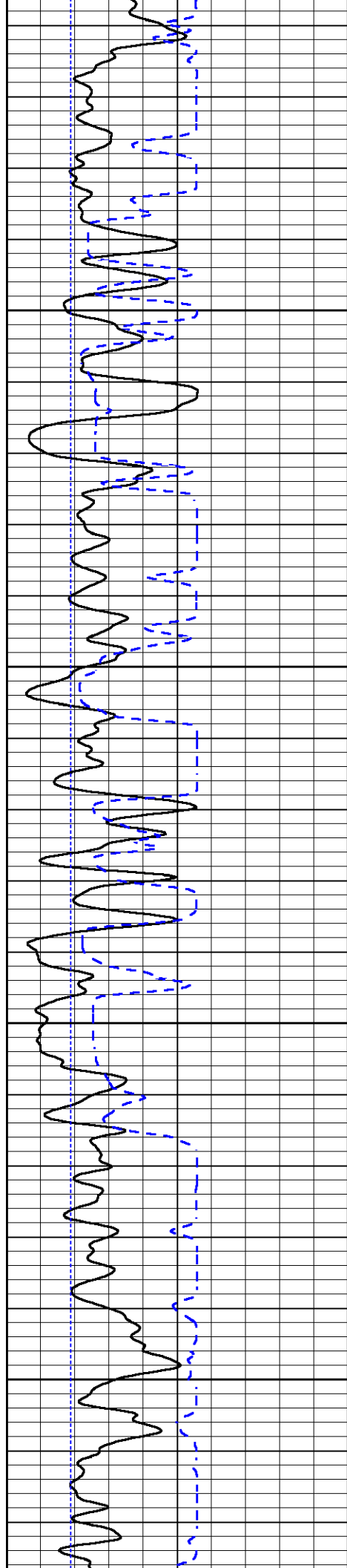


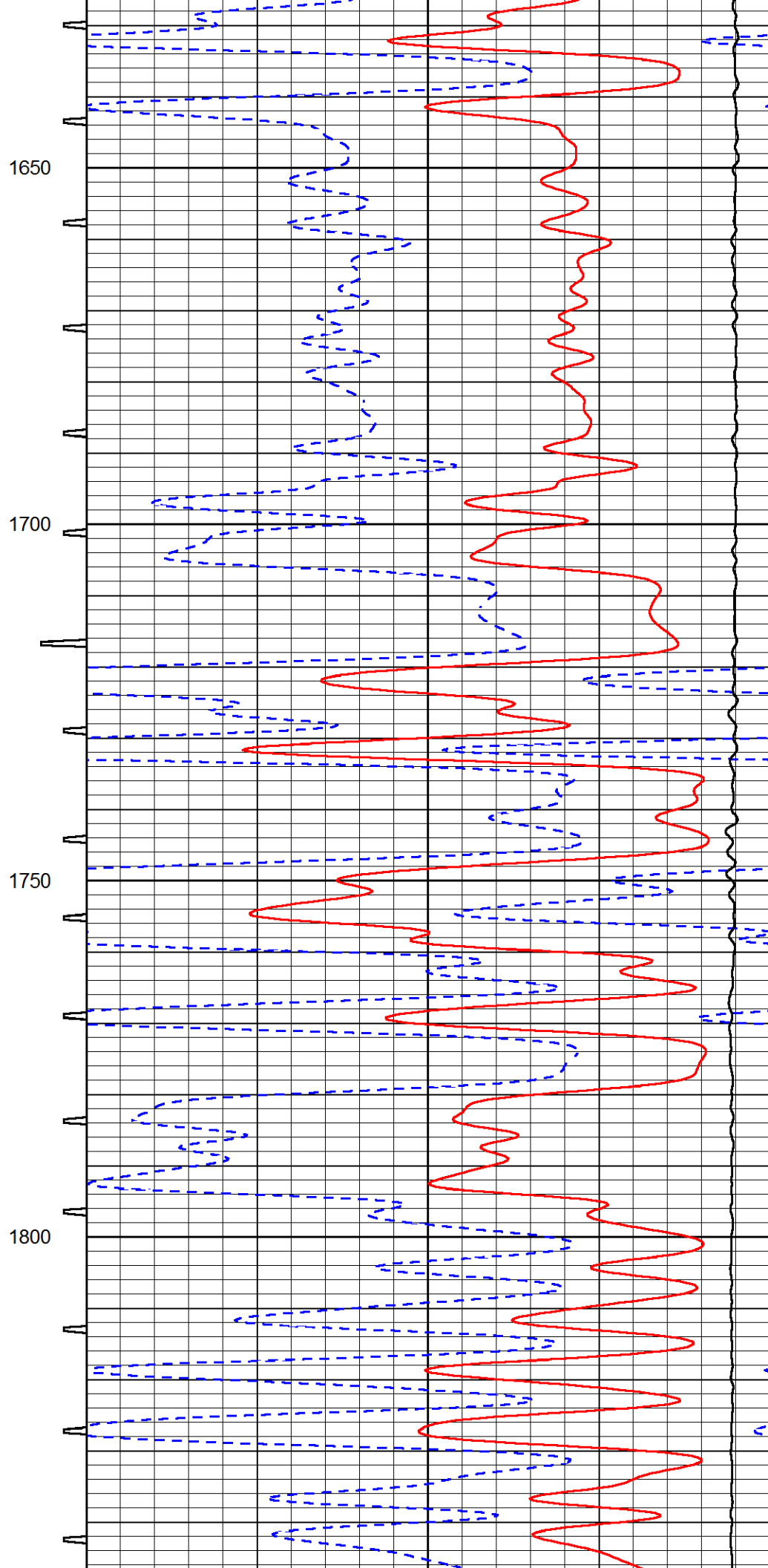
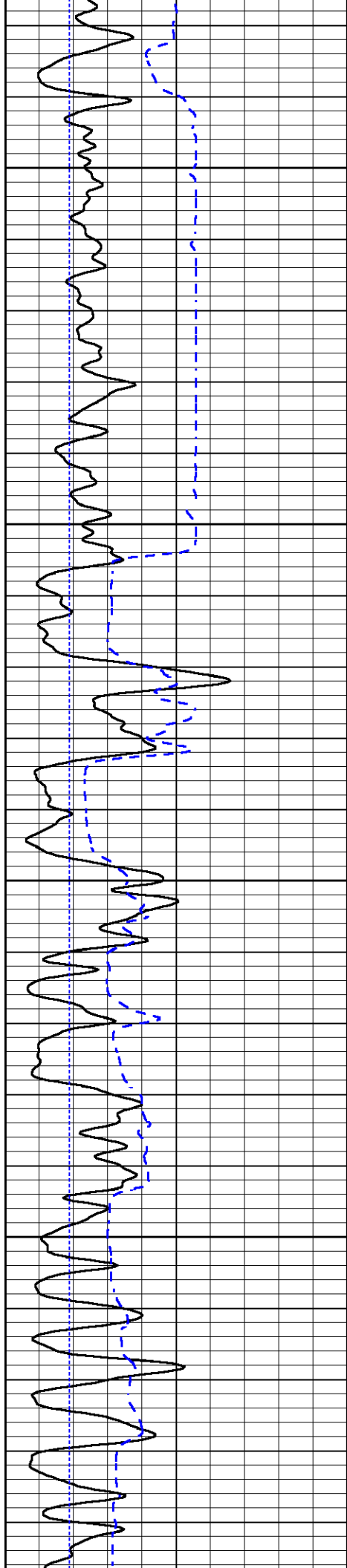


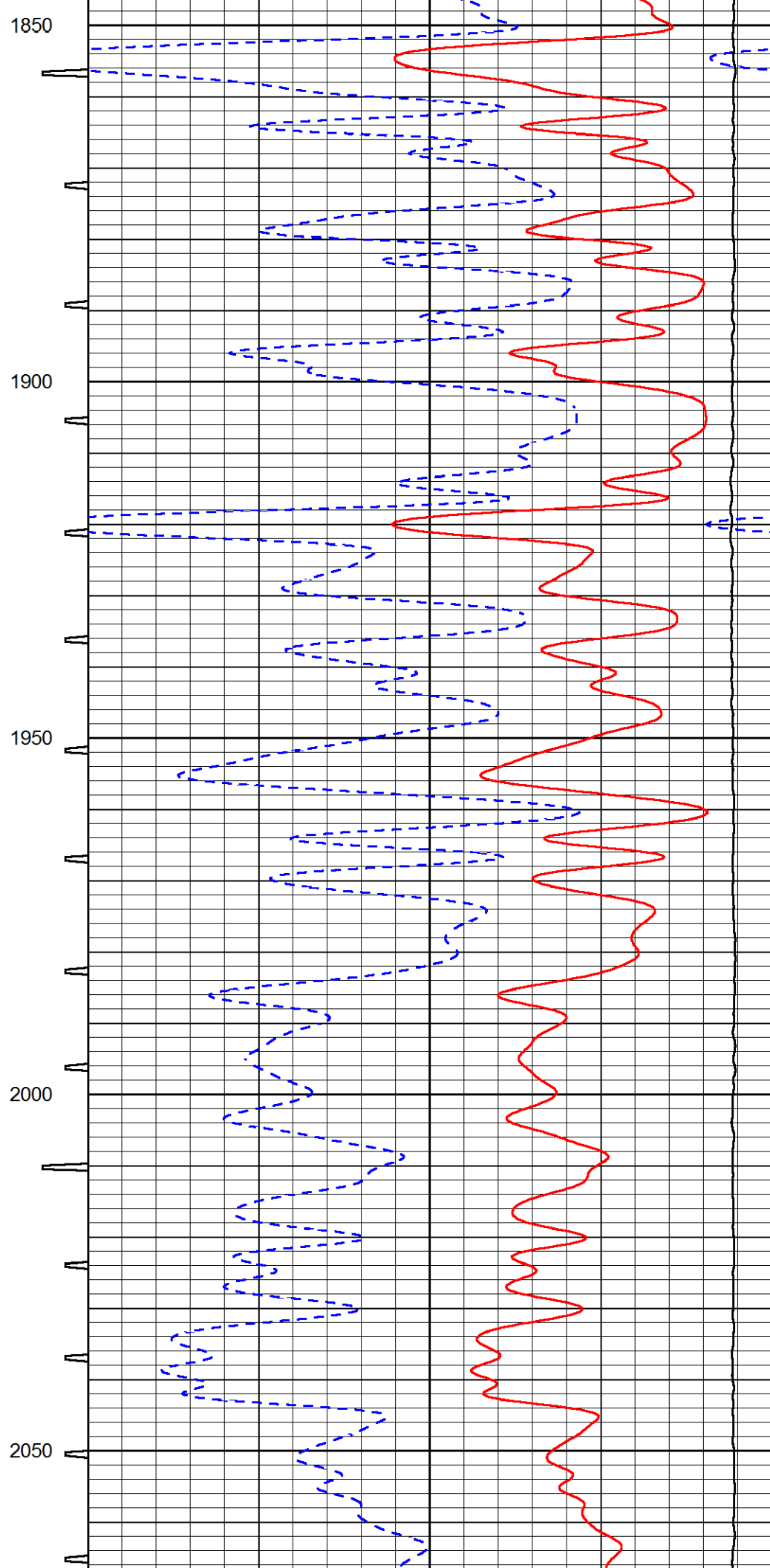
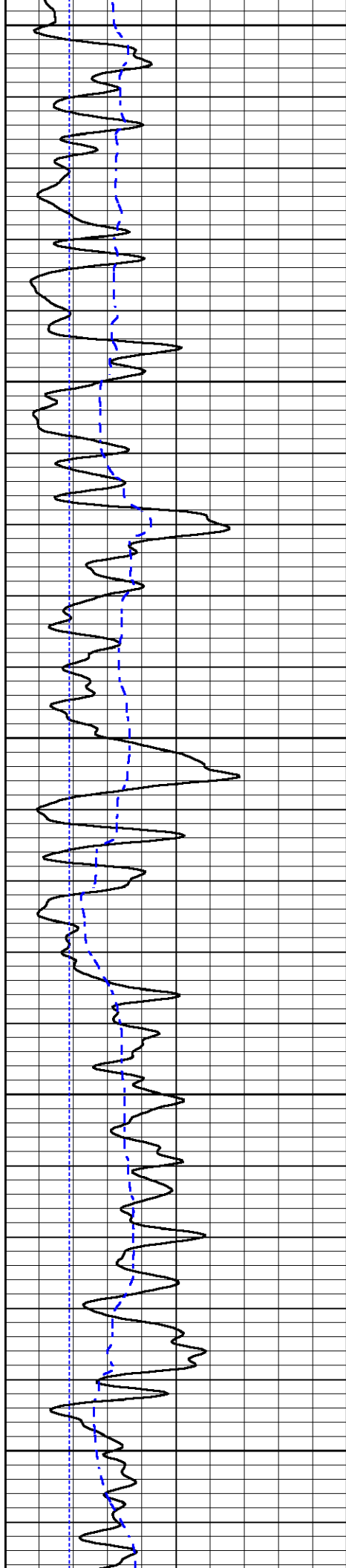


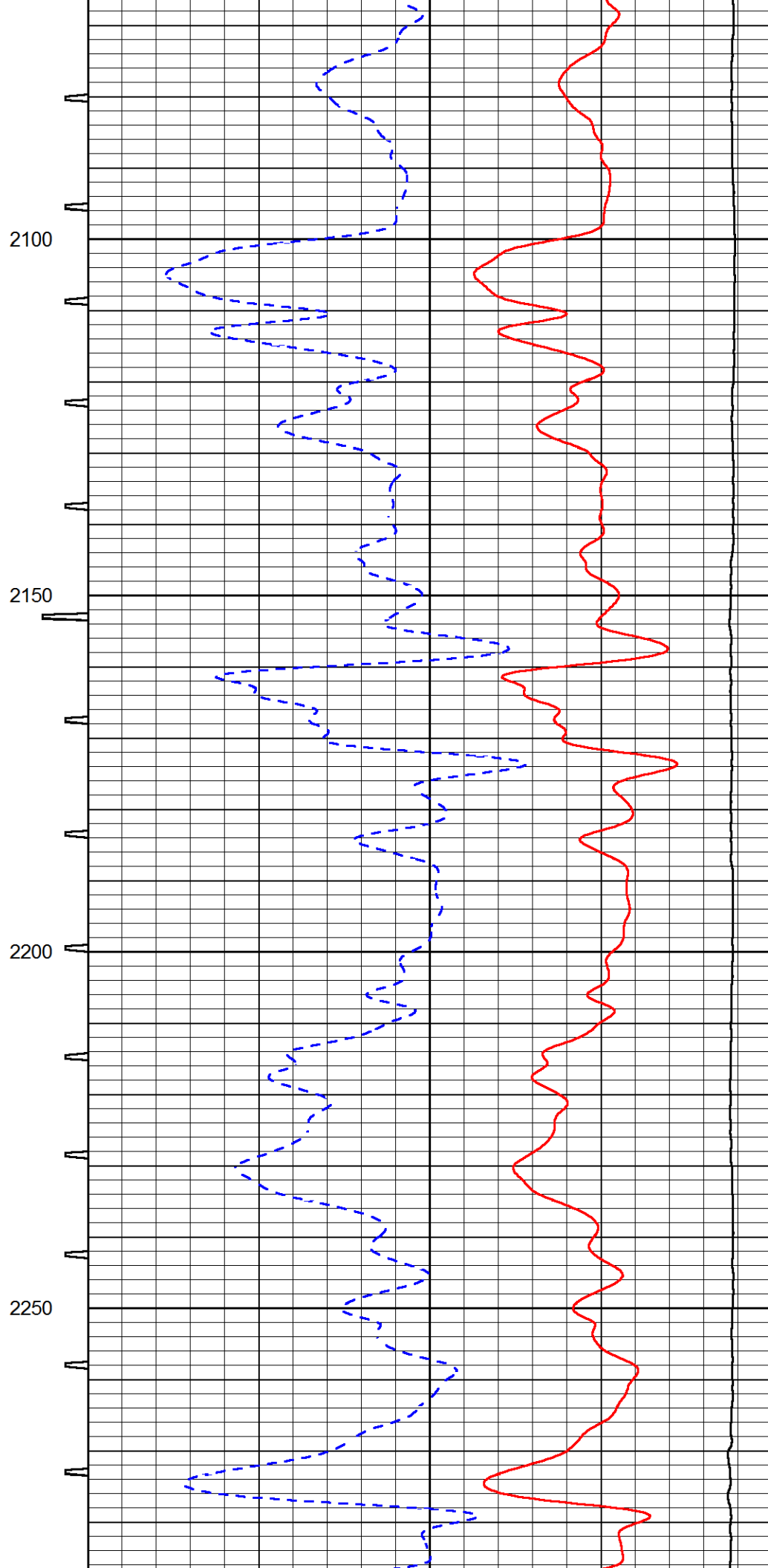
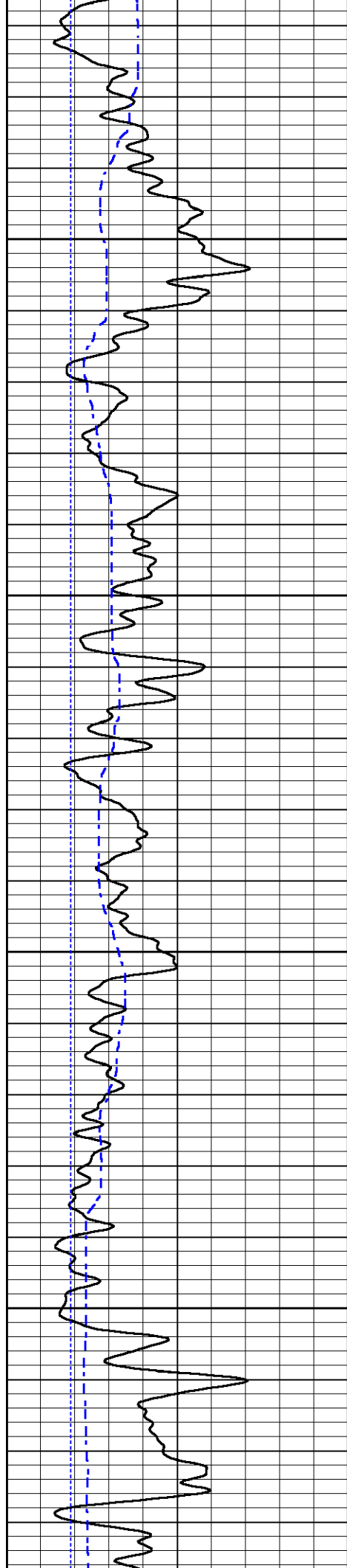


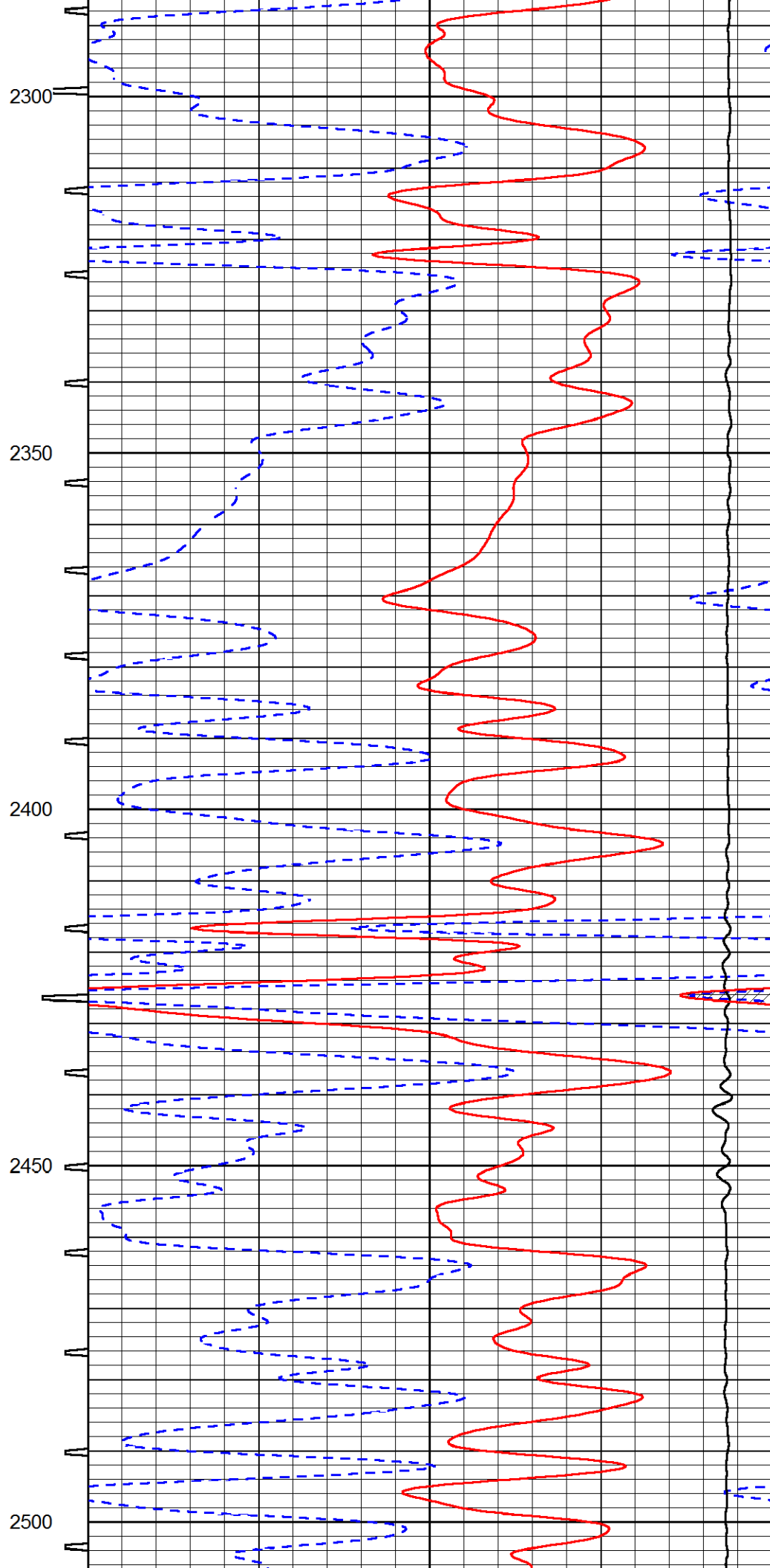
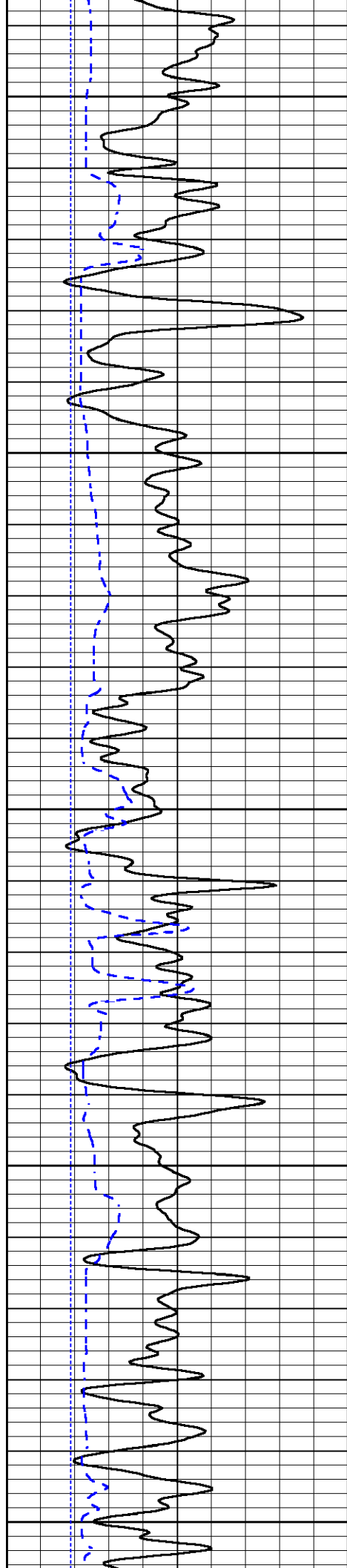


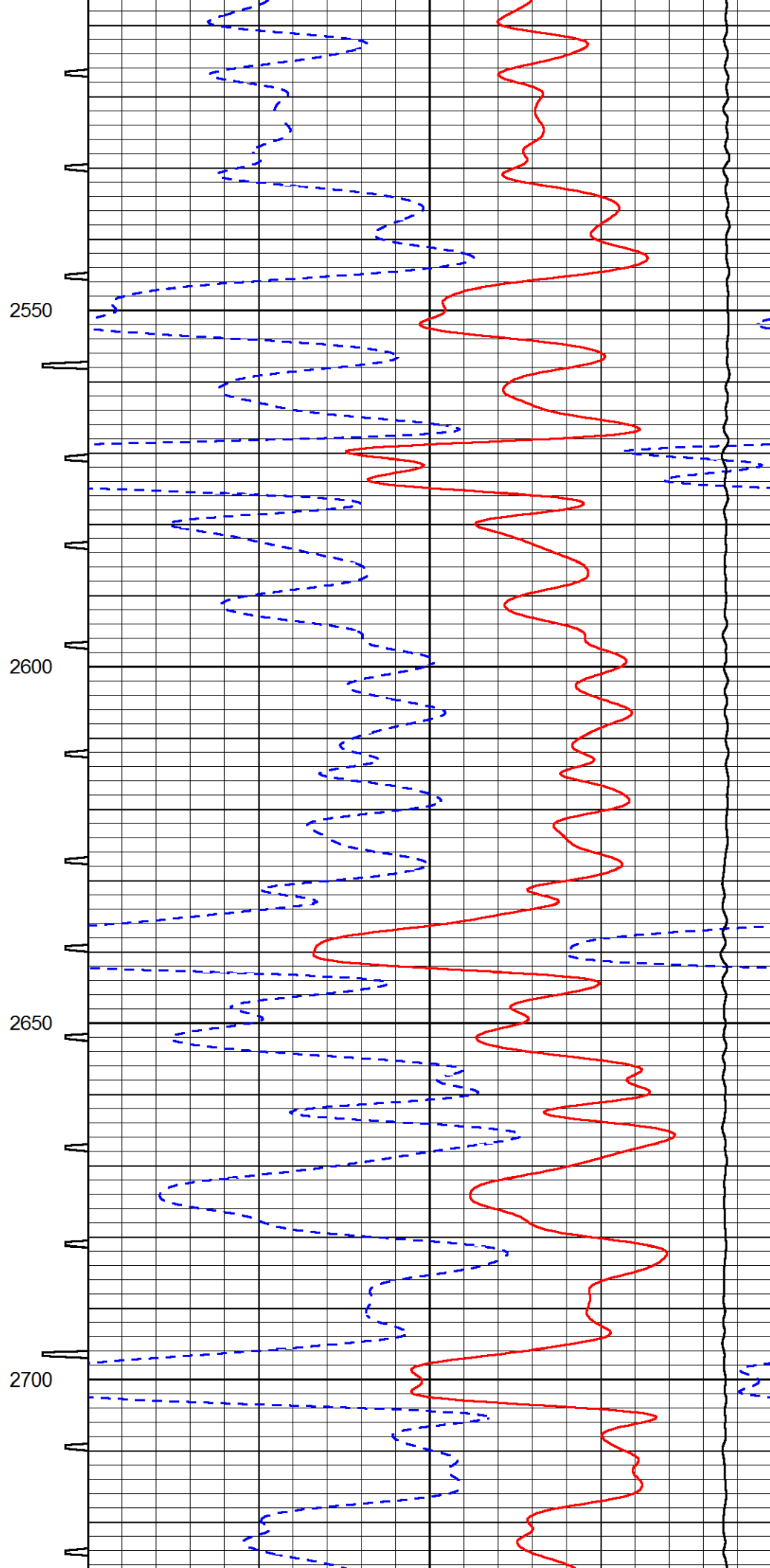
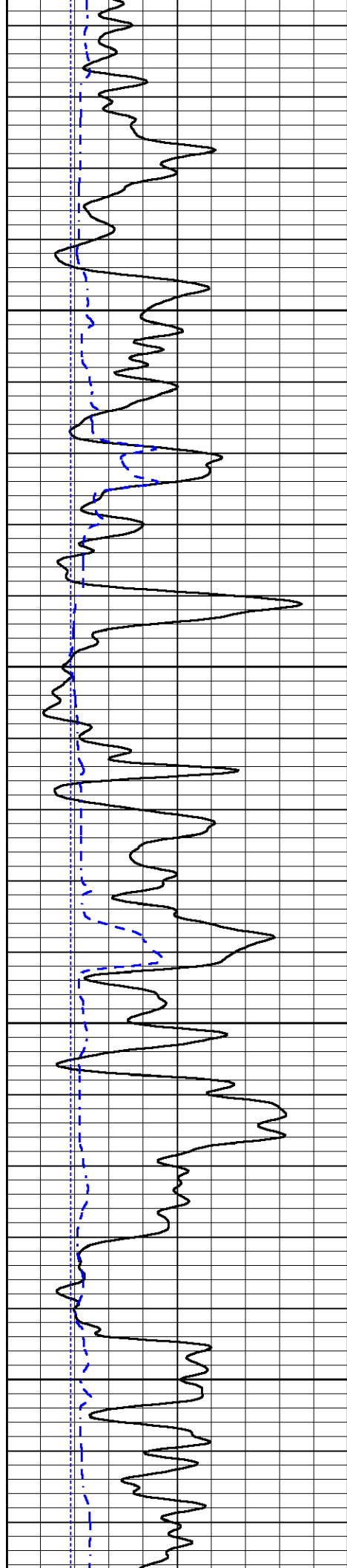


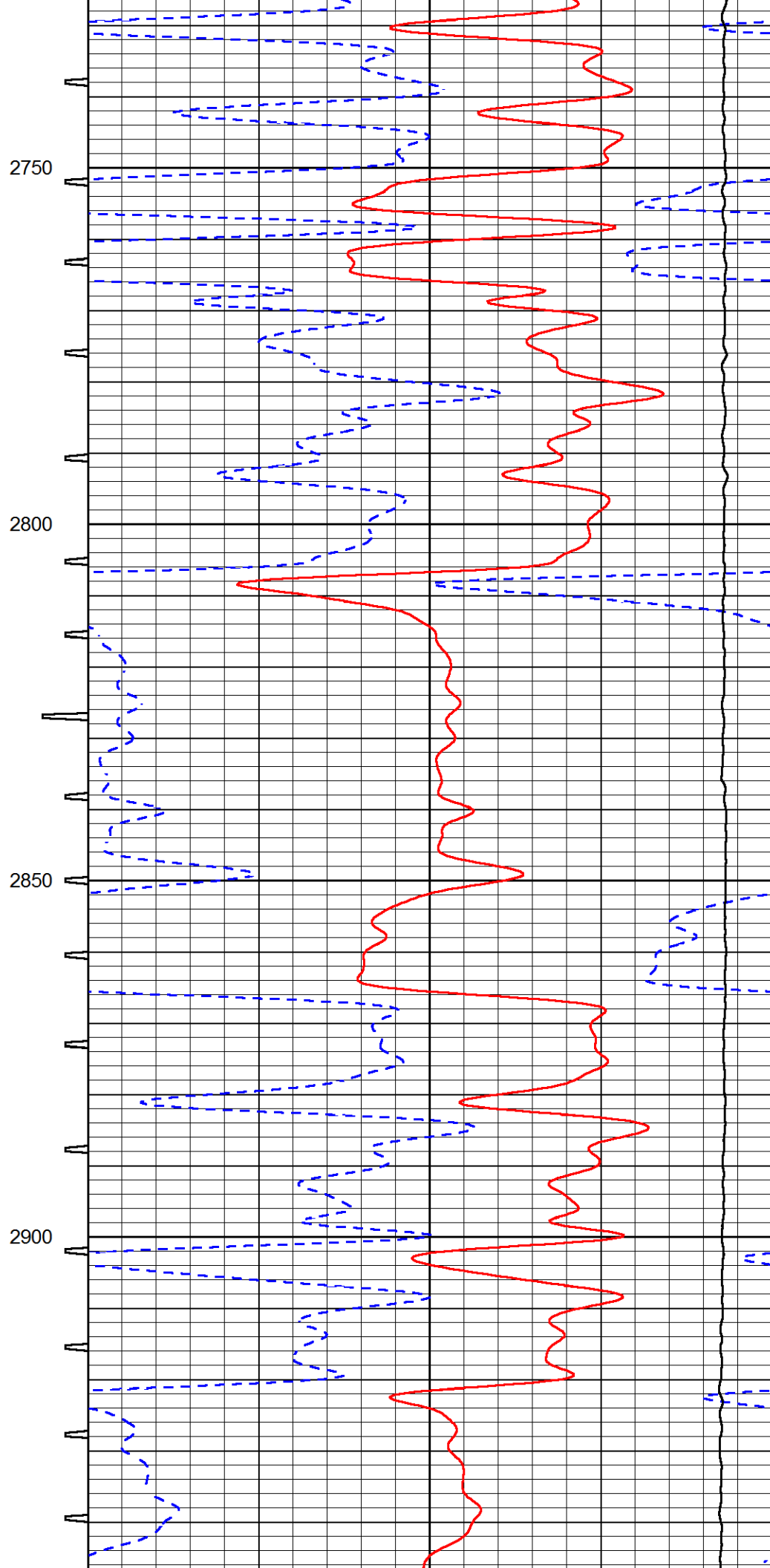
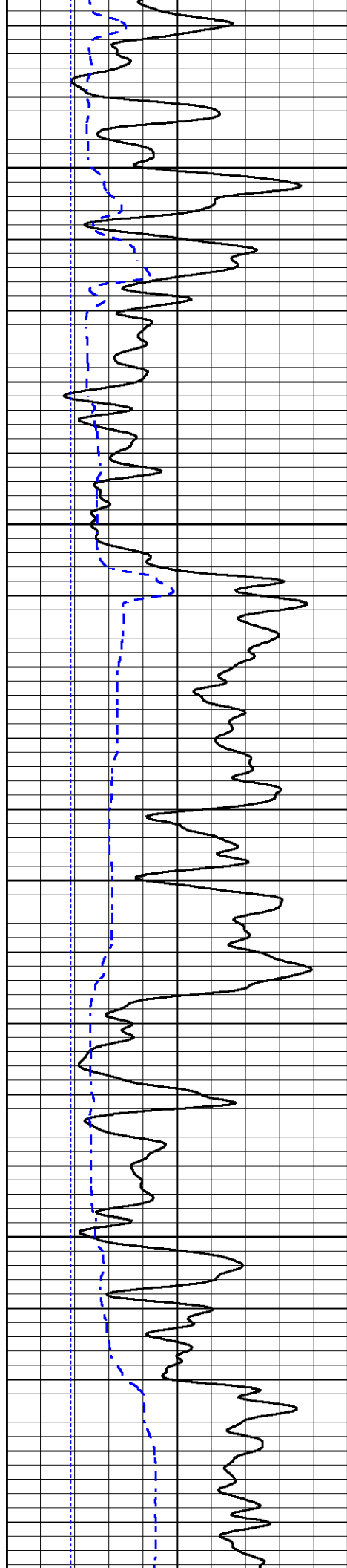


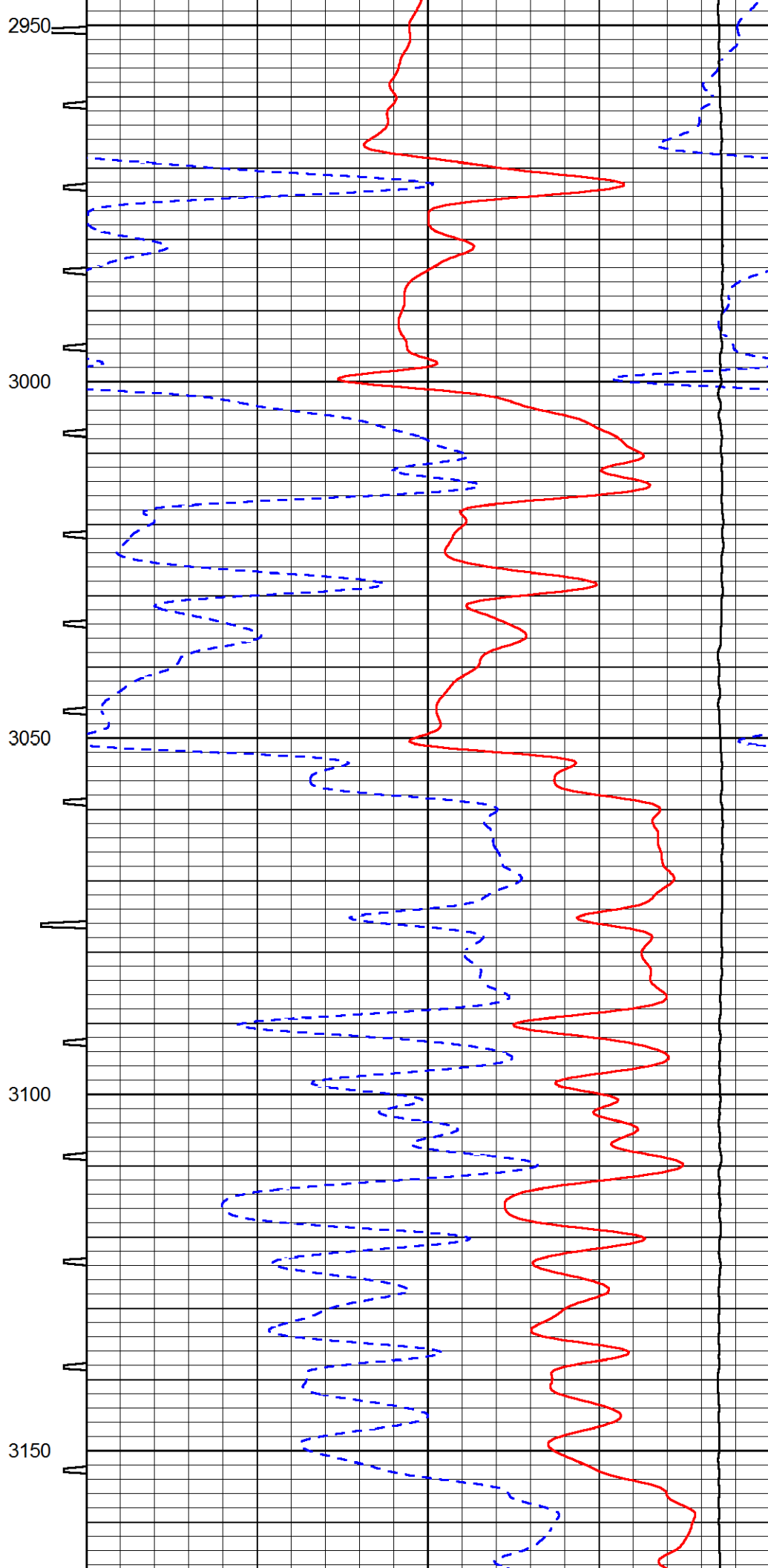
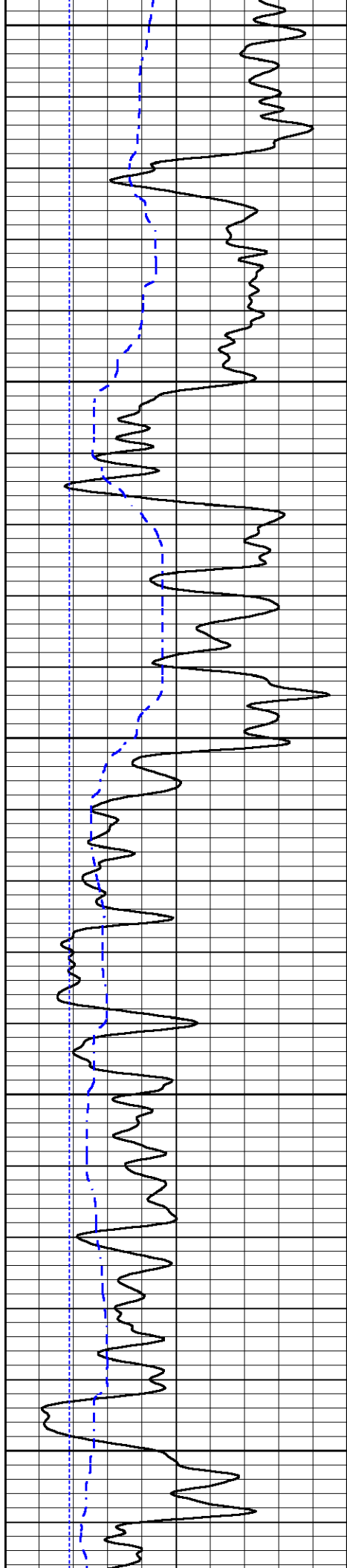


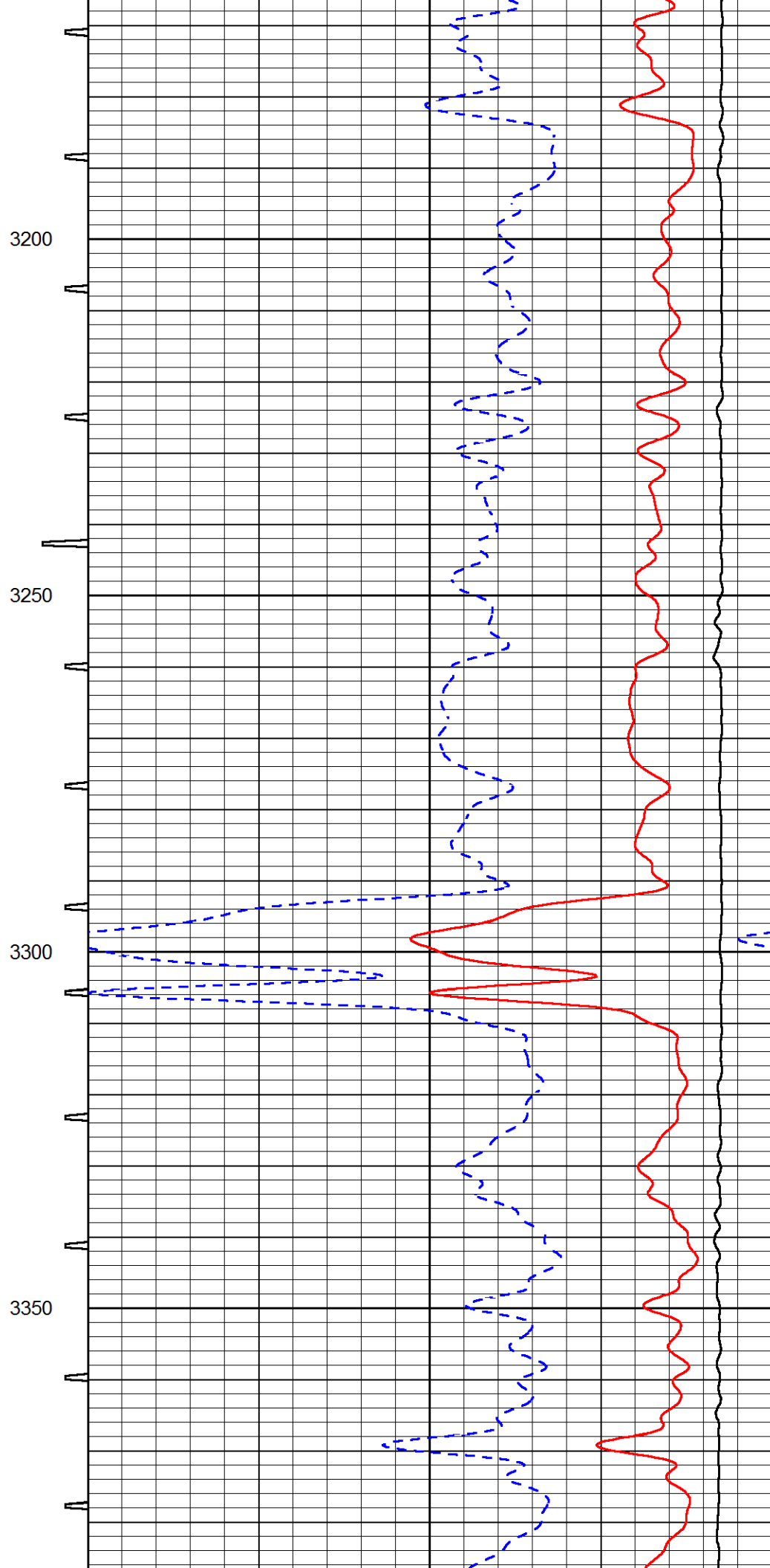
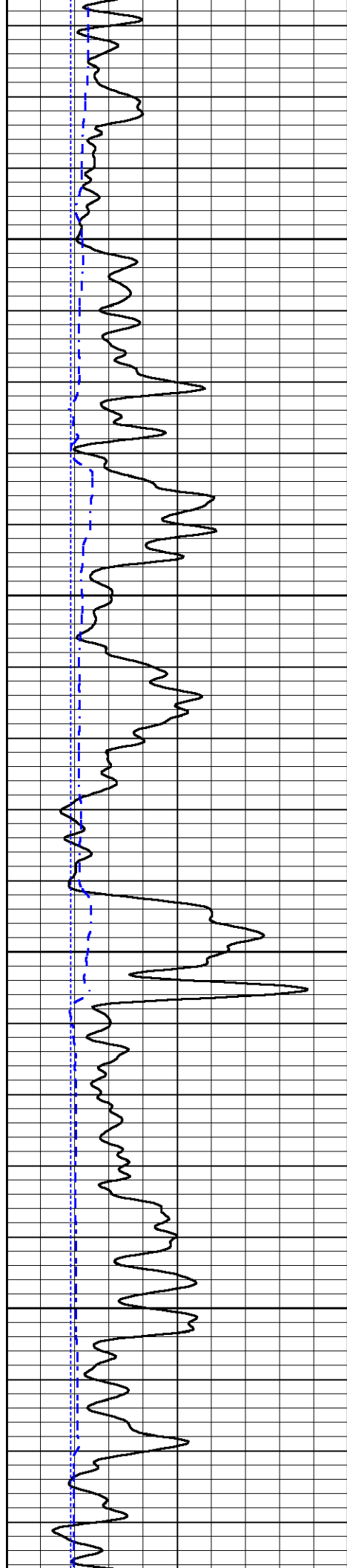


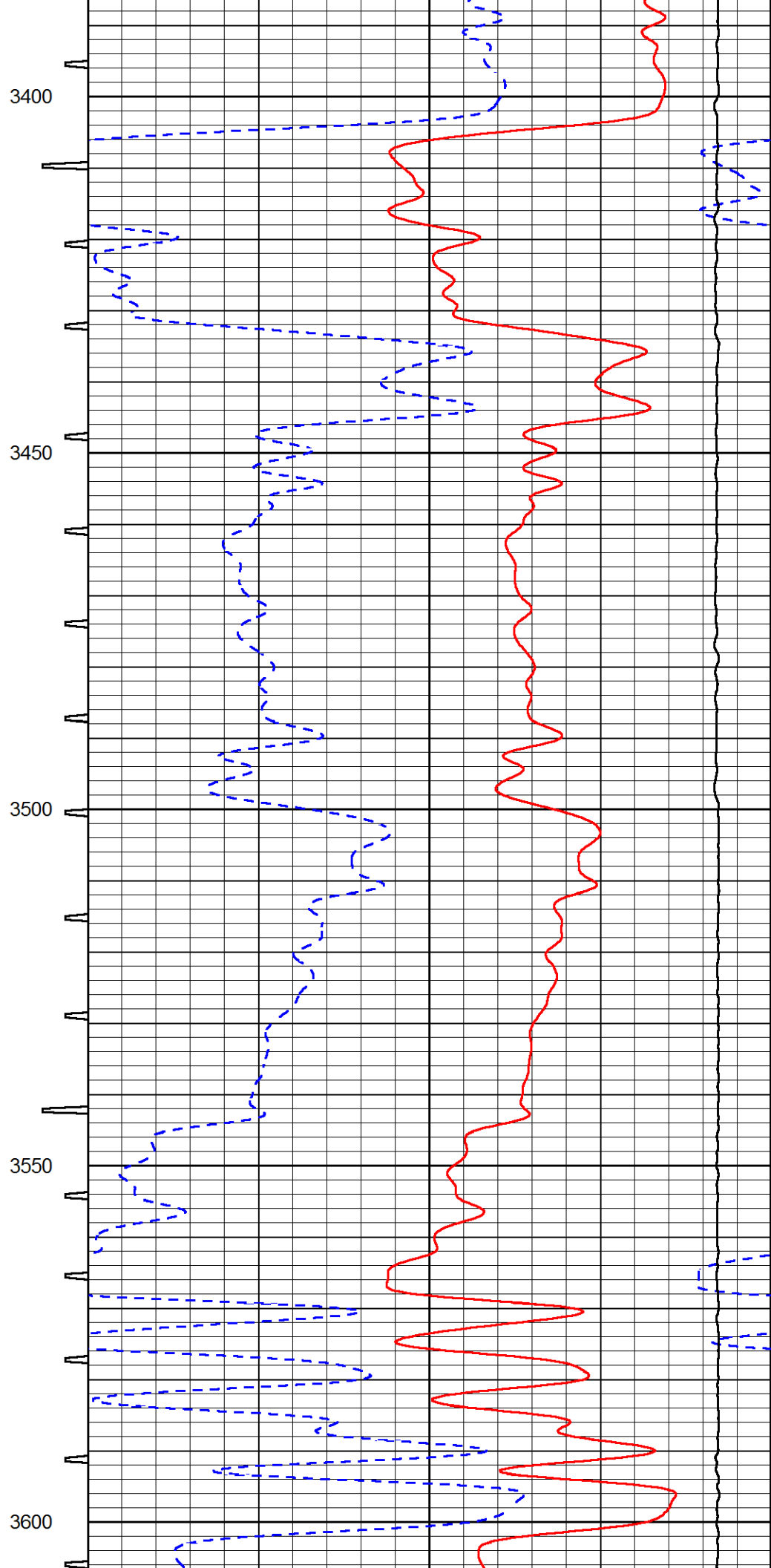
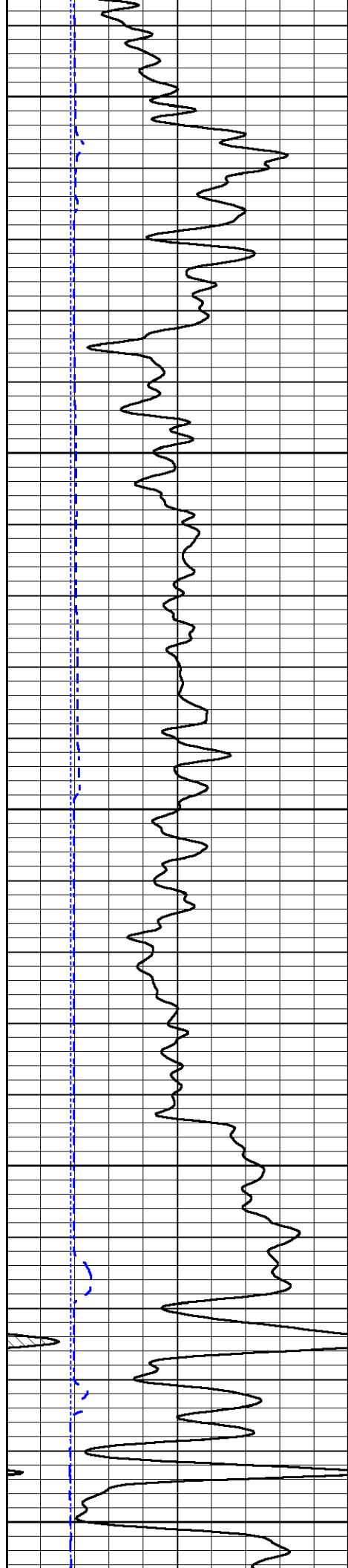


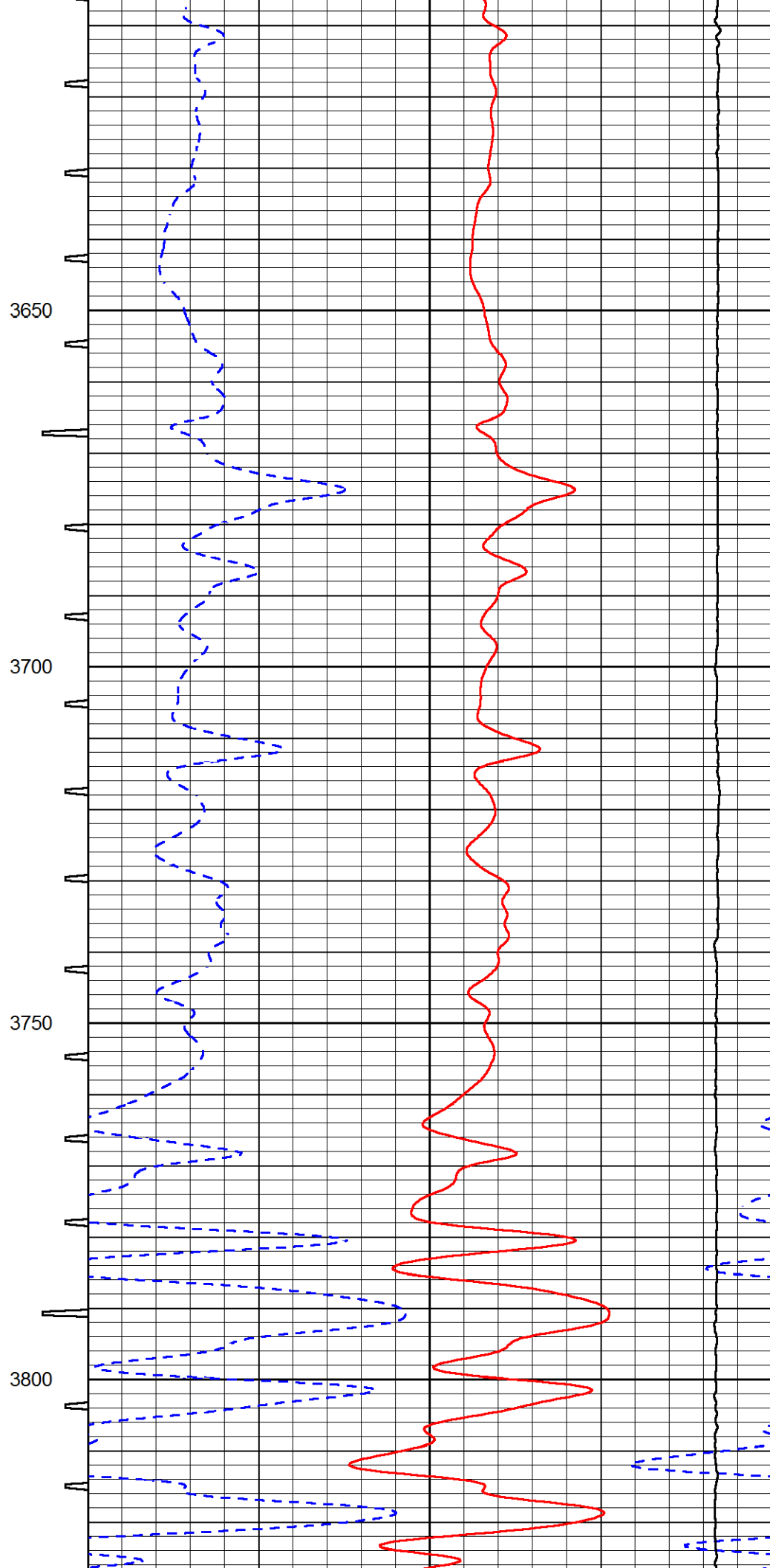
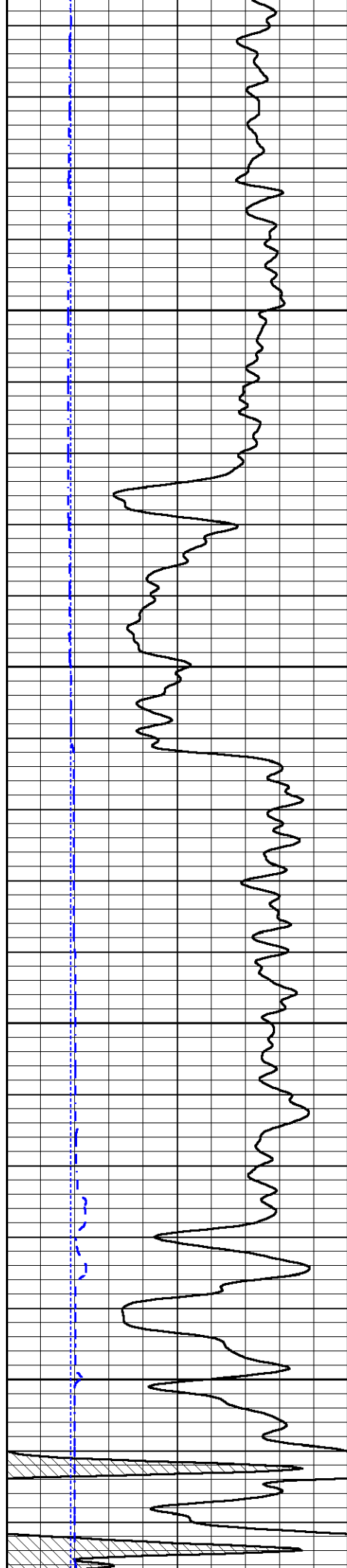


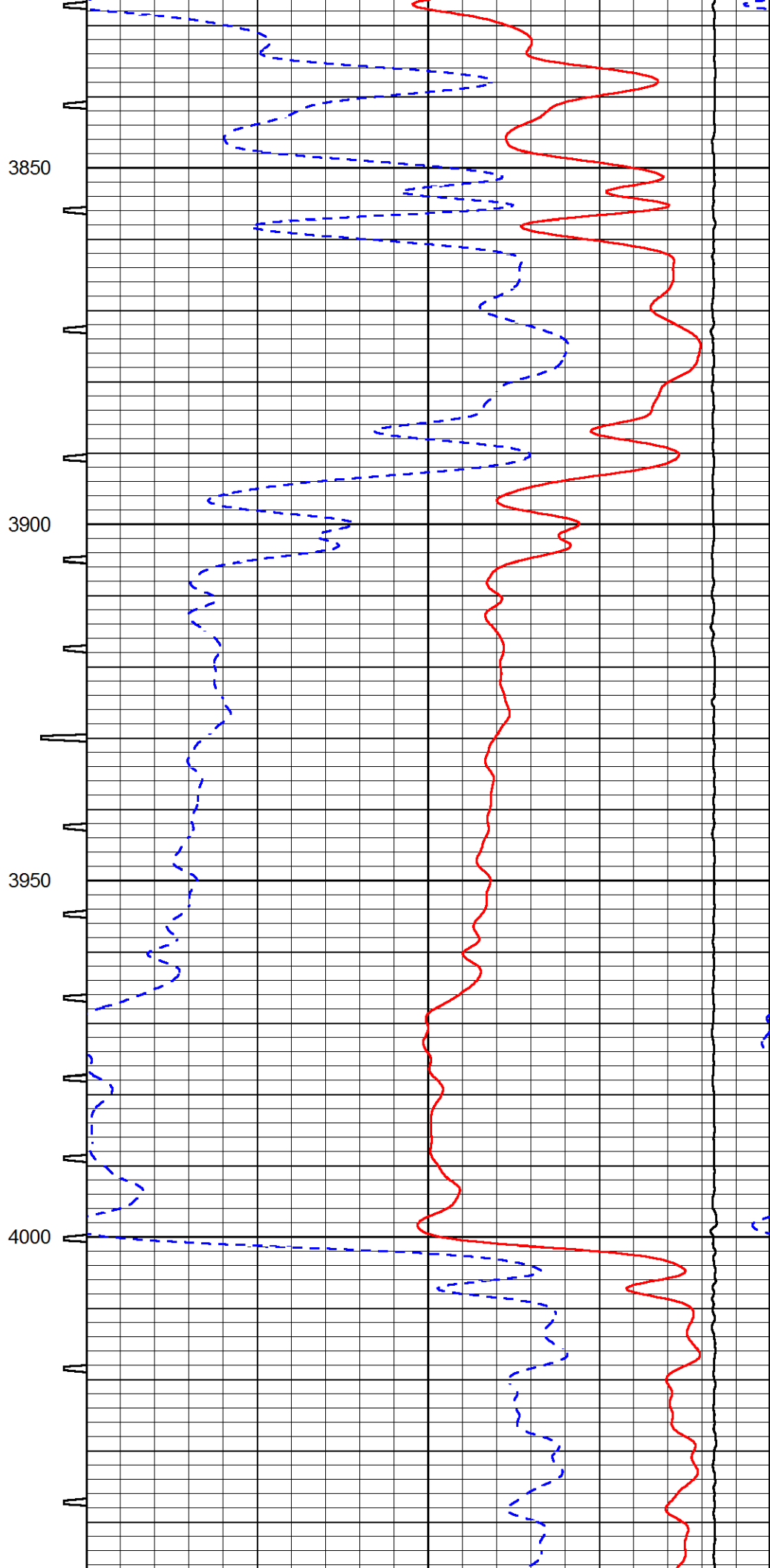
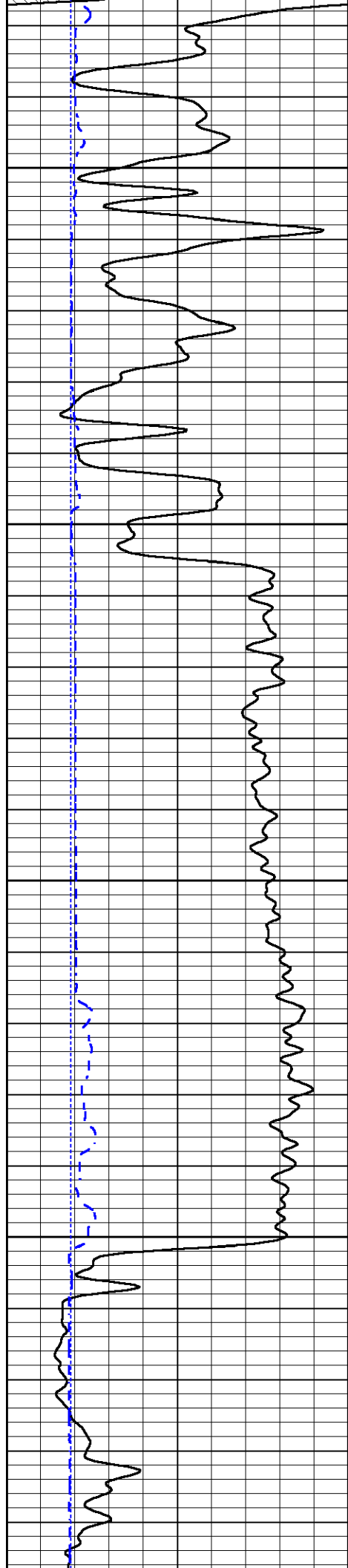


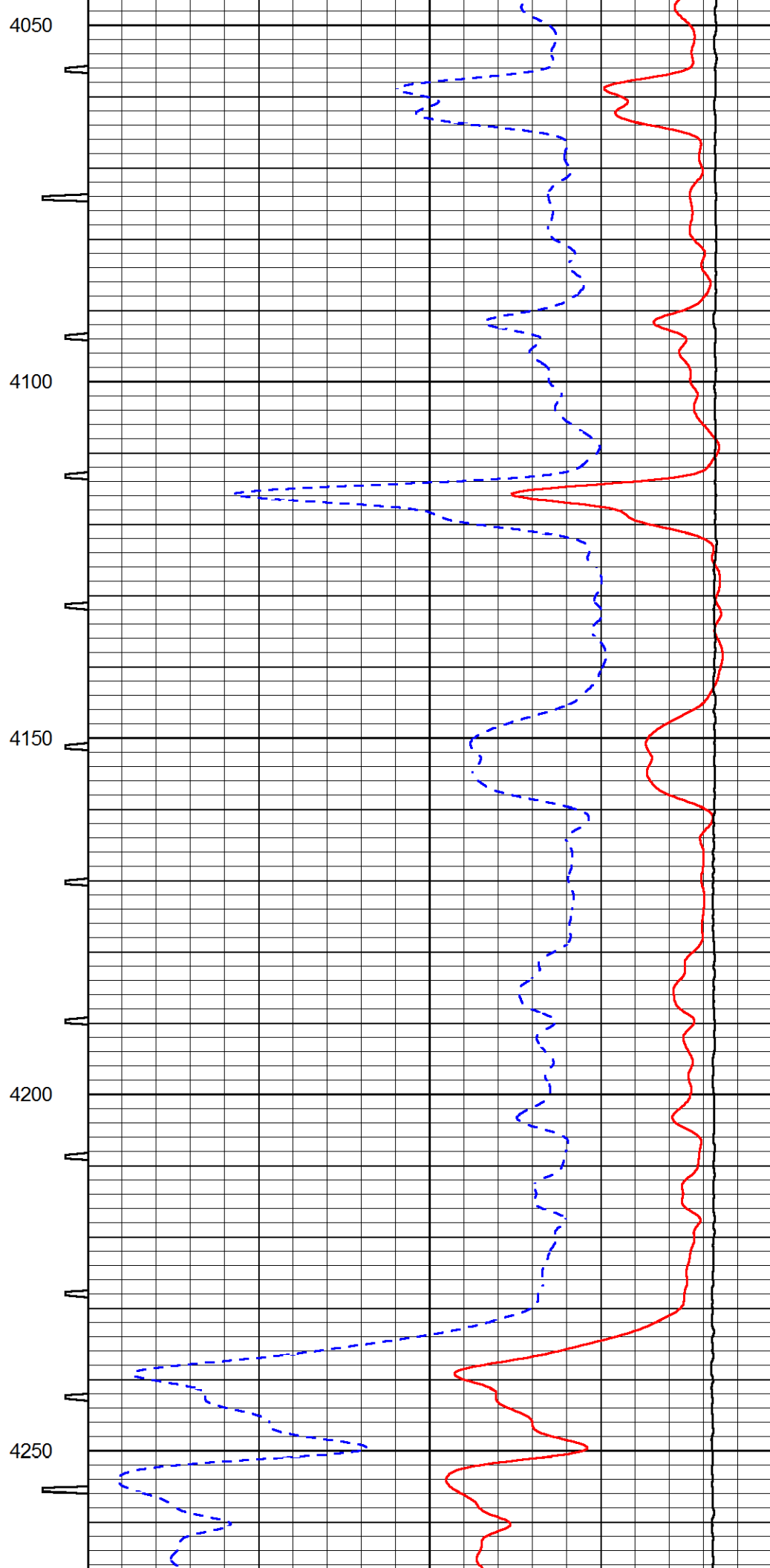
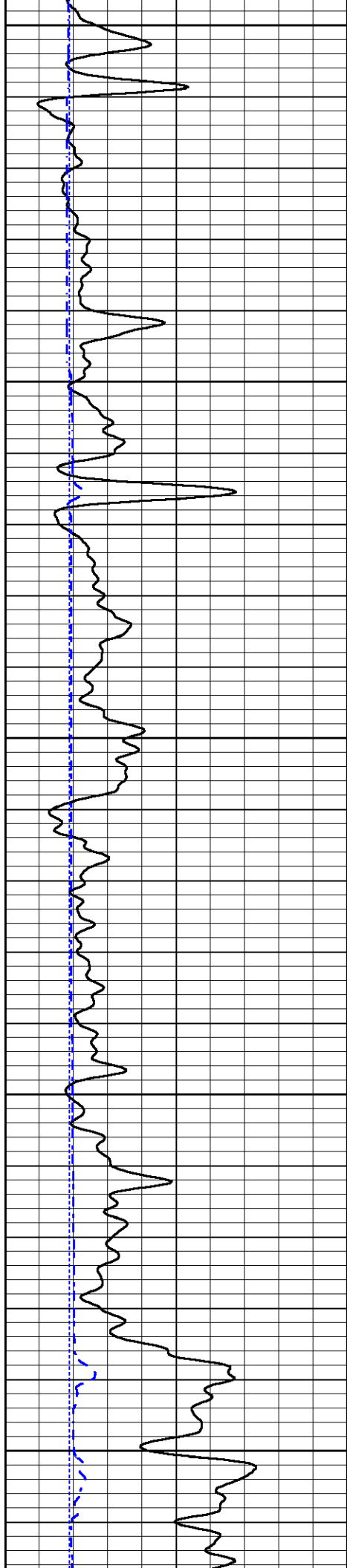


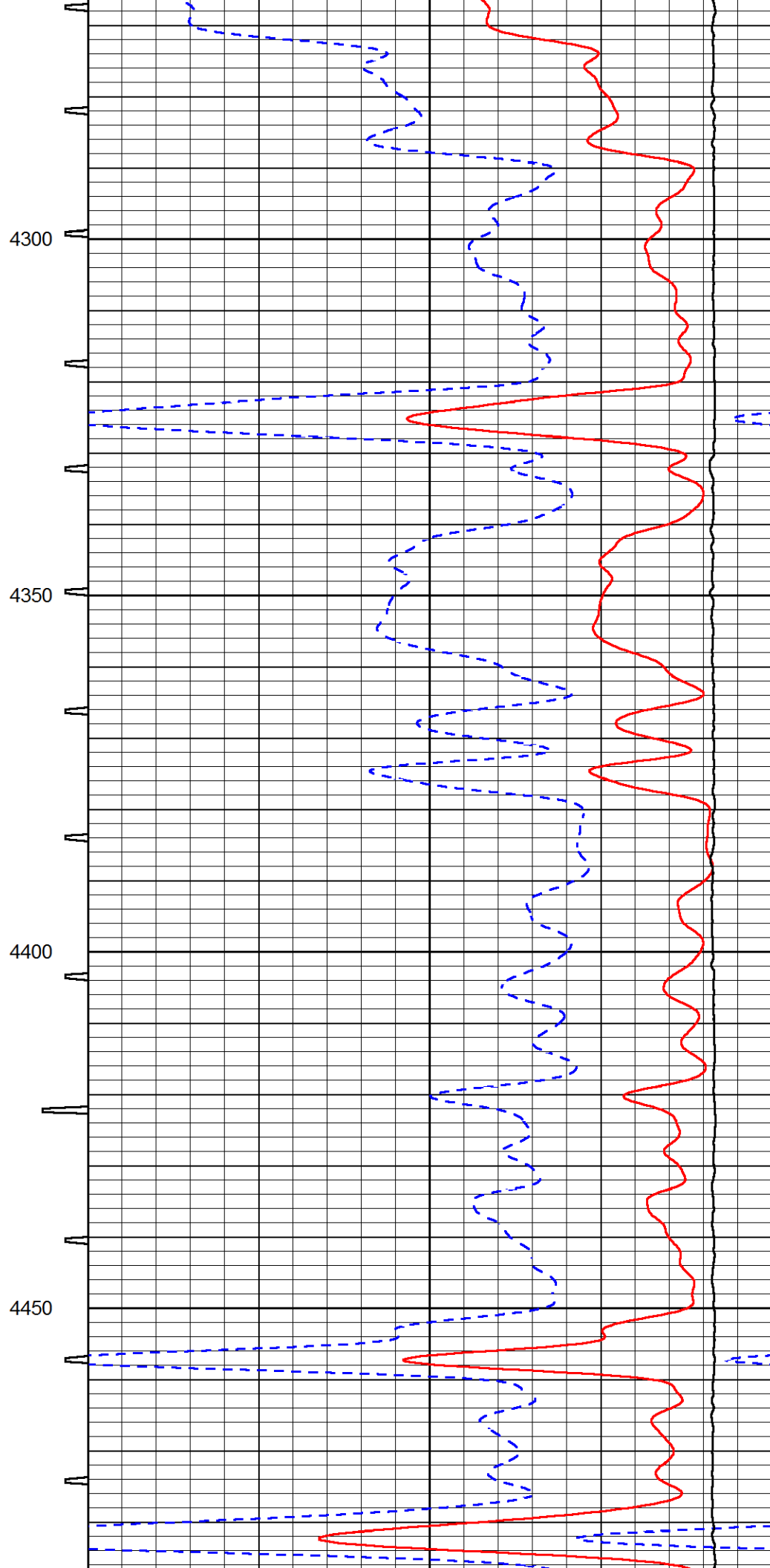
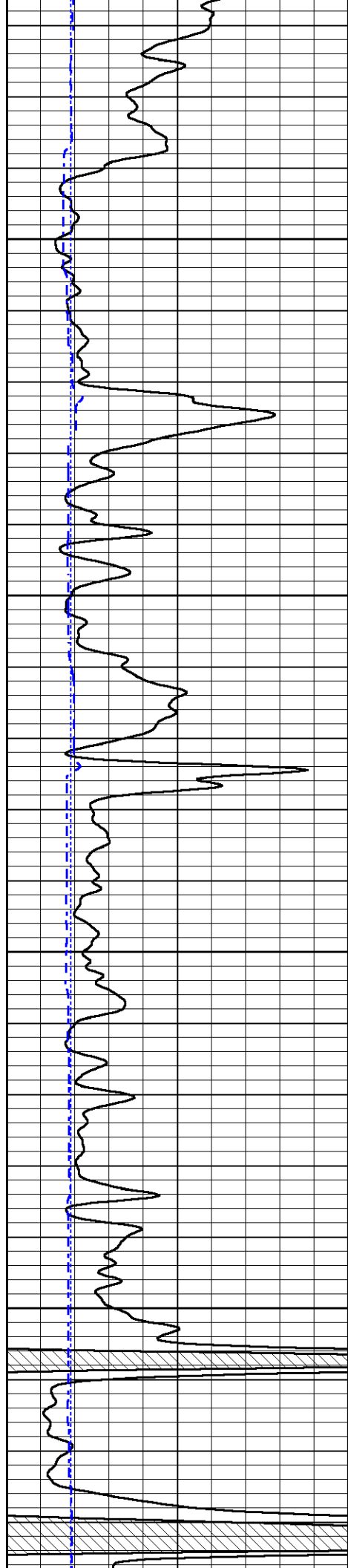


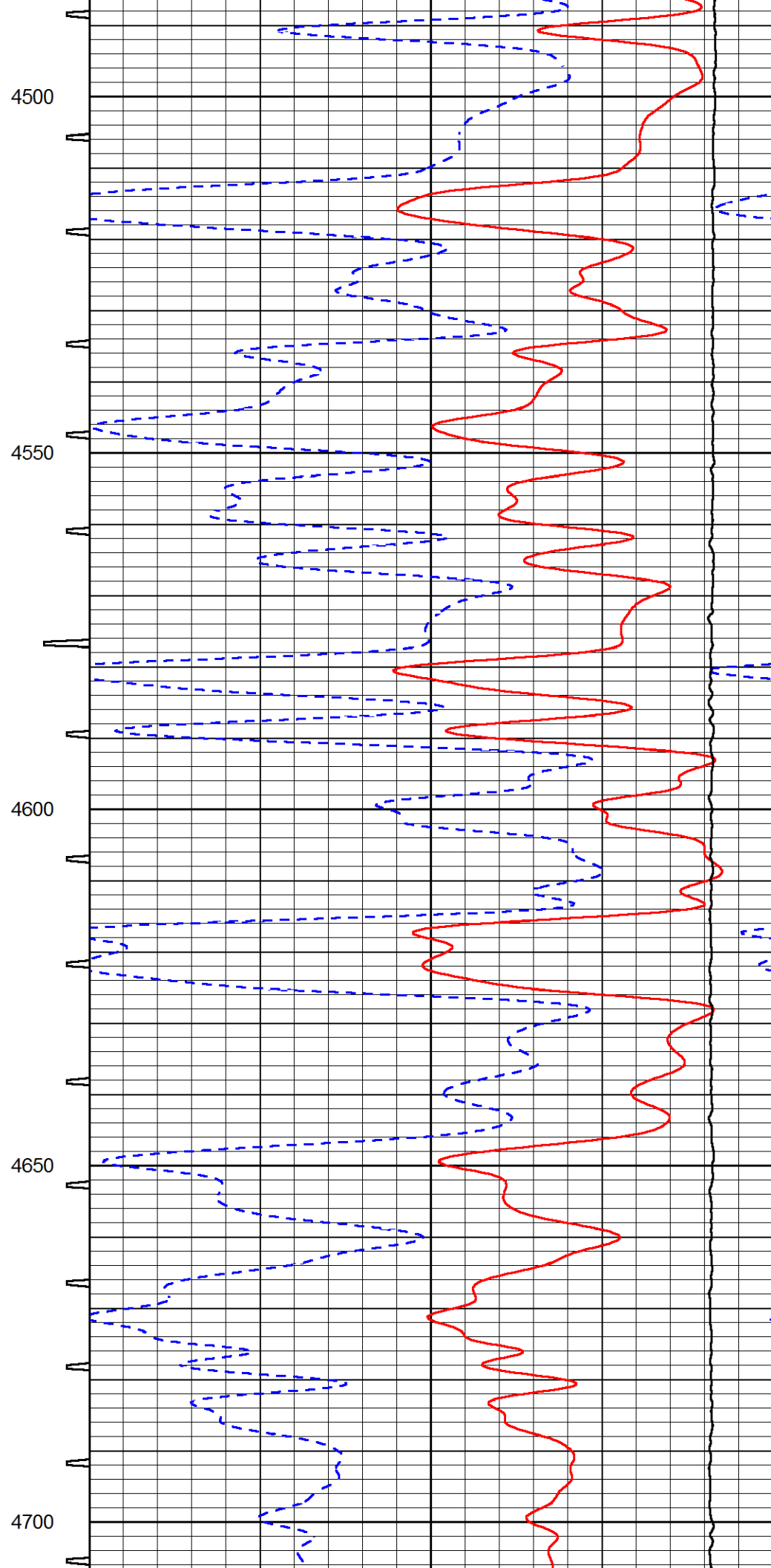
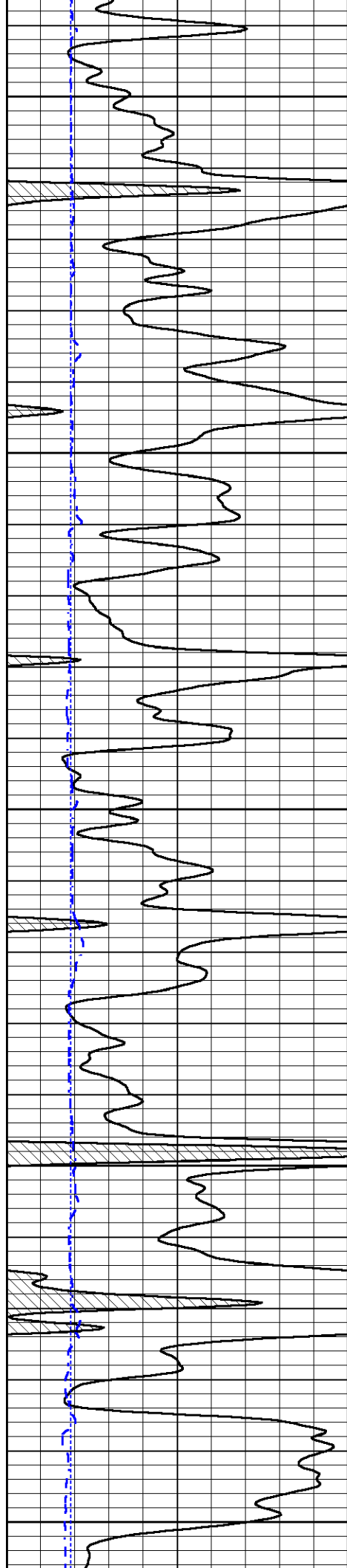


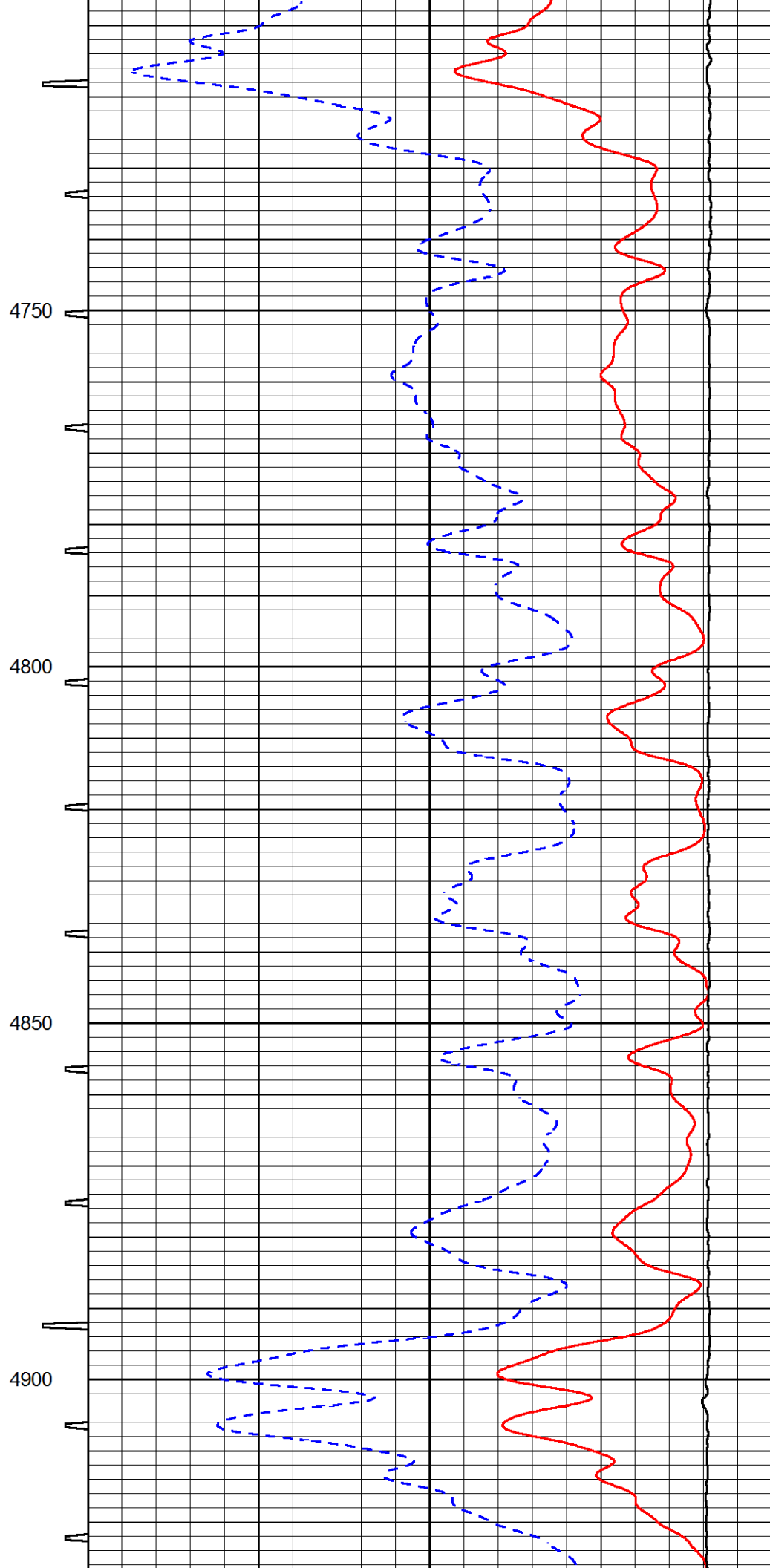
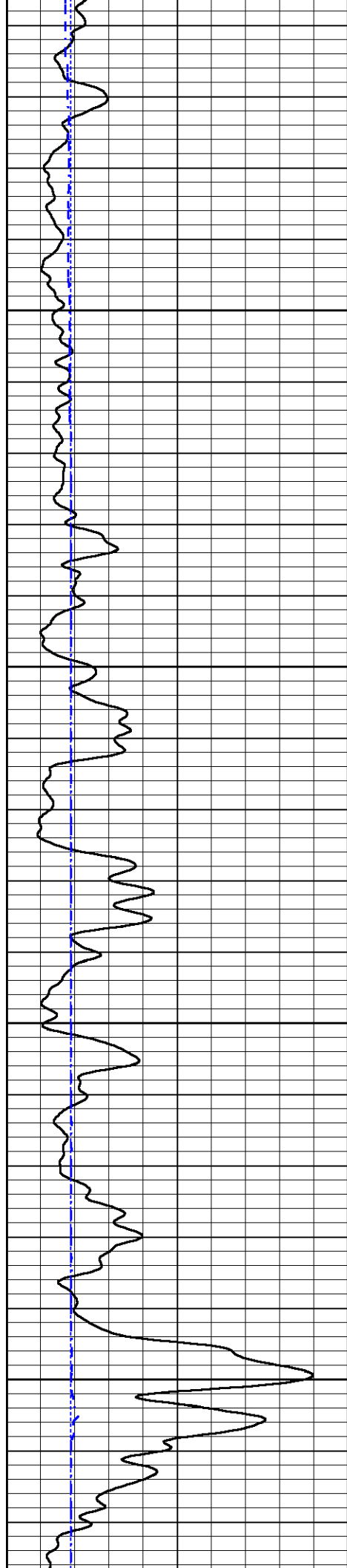


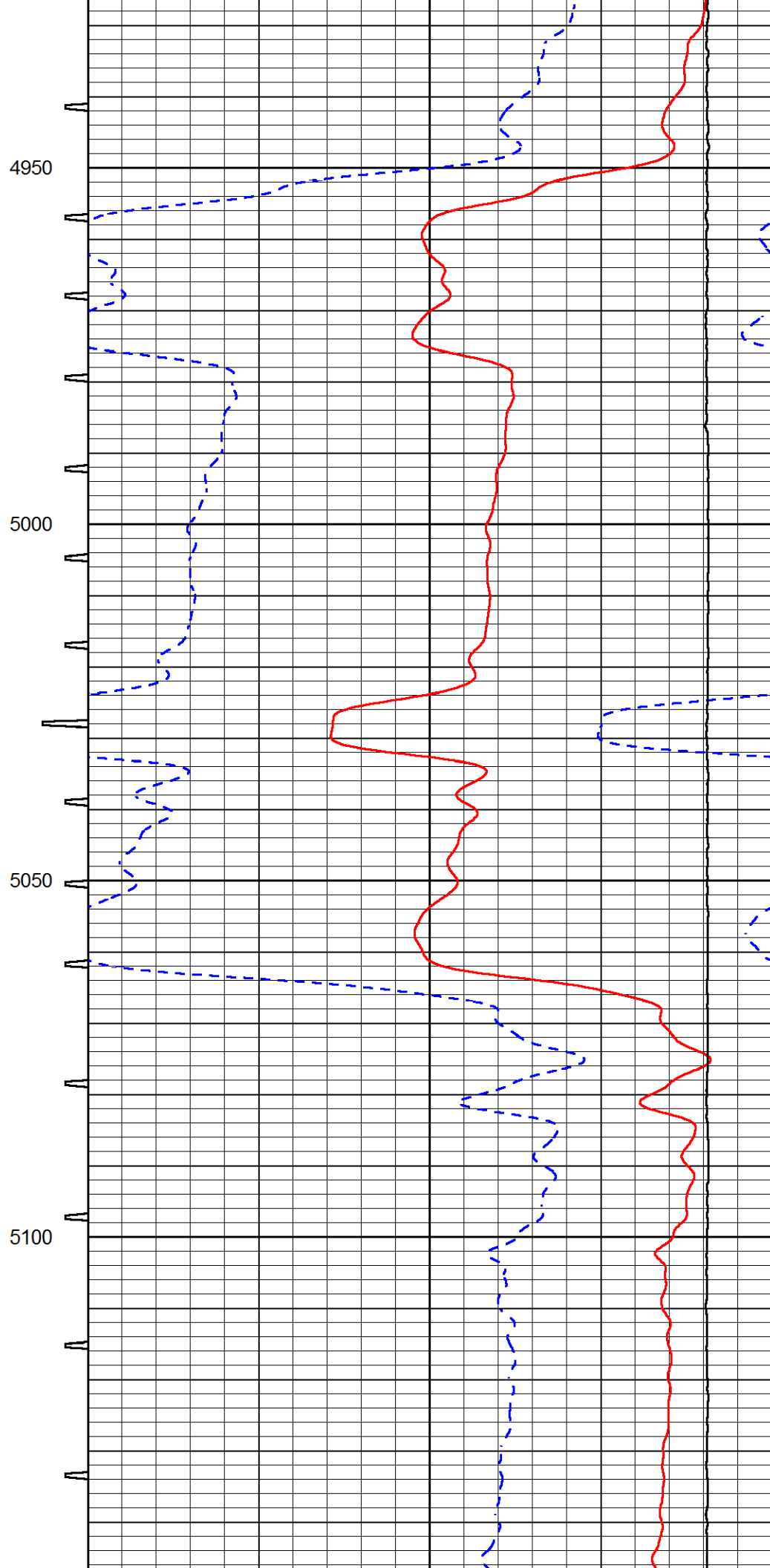
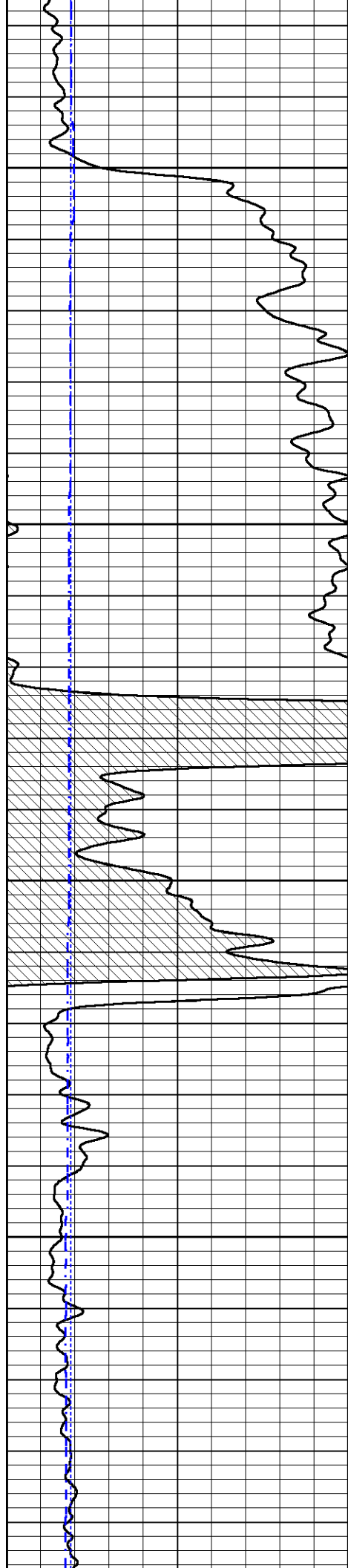


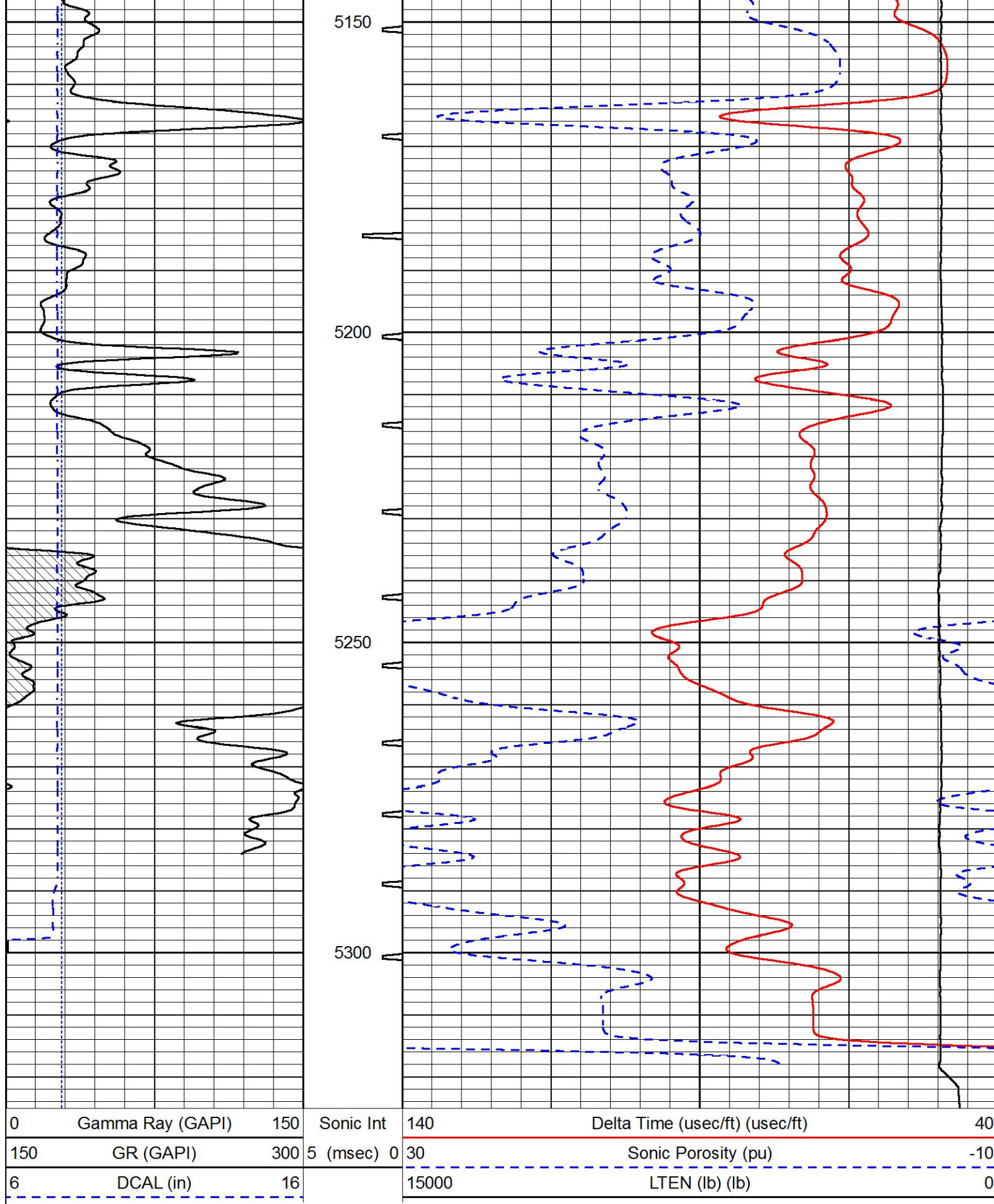




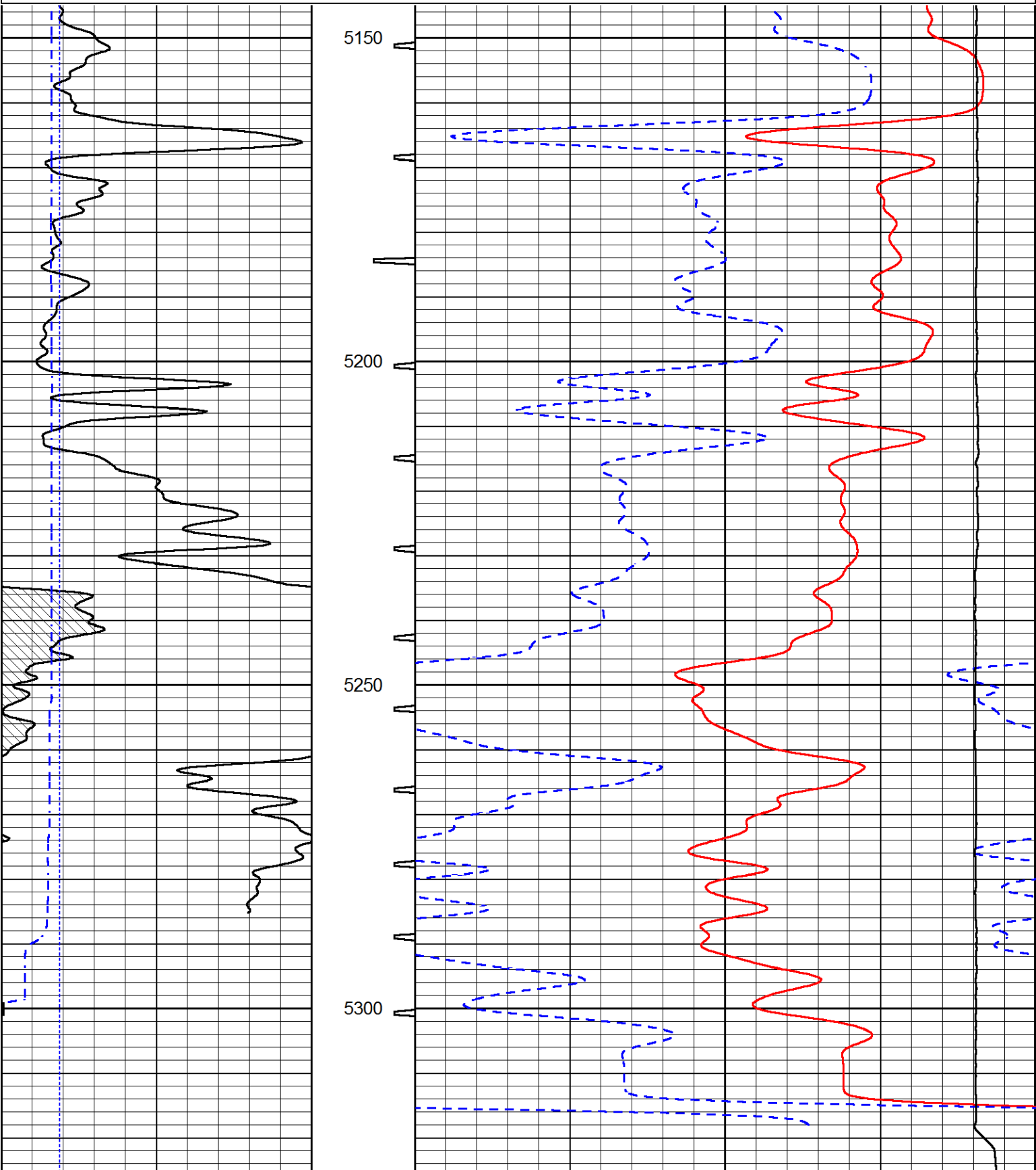








0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0



150	GR (GAPI)	300	5 (msec)	0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16			15000	LTEN (lb) (lb)	0

Calibration Report							
Database File	briscoe_tammy 1.db						
Dataset Pathname	STKML/pass3.1						
Dataset Creation	Sun Jun 28 10:20:58 2020						
Dual Induction Calibration Report							
Serial-Model:				952-828-PSI HIGH TEMP			
Calibration Performed:				Sun Jun 28 08:39:24 2020			
ReadingsReferencesResults							
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-27.500
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.325	-25.500
Microlog Calibration Report							
Serial-Model:				PSI-01-PSIML			
Performed:				Tue Jun 16 01:32:04 2020			
ReadingsReferencesResults							
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-1.3000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.5500
Compensated Density Calibration Report							
Serial-Model:				817-947-M&W			
Source / Verifier:				16955B / 2ci			
Master Calibration Performed:				Tue Sep 24 21:18:50 2019			
Master Calibration							
	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		6127.15		5922.31	cps
Aluminum	2.680	g/cc		1141.85		3762.09	cps
	Spine Angle = 74.89			Density/Spine Ratio = 0.532			
	Size			Reading			
Small Ring	4.50	in		1.02			
Large Ring	14.50	in		1.23			
Compensated Neutron Calibration Report							
Serial Number:				207-MW			
Tool Model:				M&W			
Calibration Performed:				WED FEB 13 10:30:30 2019			

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	233-M&W	
Tool Model:	M&W	
Calibration Performed:	Fri Feb 07 01:42:40 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps



Company	BRISCOE PETROLEUM, LLC
Well	TAMMY #1
Field	GROENDYKE
County	BARBER
State	KANSAS