



BOREHOLE COMPENSATED SONIC LOG

MIDWEST WIRELINE

Company Ritchie Exploration, Inc.
Well #3 Frusher 9D
Field Sandpit North
County Hodgeman
State Kansas

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Location: API #: 15-083-21988-00-00

Other Services

NW SE SE
948' FSL & 1062' FEL
SEC 9 TWP 21S RGE 23W

CNL/CDL
MEL/DIL

Permanent Datum Ground Level Elevation 2316'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

K.B. 2321'
D.F.
G.L. 2316'

Date 6/13/2021

Run Number Two

Type Log BHCS

Depth Driller 4600'

Depth Logger 4602'

Bottom Logged Interval 4590'

Top Logged Interval 250'

Type Fluid In Hole Chemical

Salinity, PPM CL 9200

Density 9.05

Level Full

Max. Rec. Temp. F 122 Deg F

Operating Rig Time 4.5 Hours

Equipment -- Location P-108 HAYS

Recorded By T. Martin

Witnessed By Kent Matson

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25"	00'	252'	8.625"	23#	00'	252'
Two	7.875"	252'	TD				

<<< Fold Here >>>

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

Jetmore, KS, 9 N to V Rd, 3 E, 1 N, NW into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Kent Matson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\ritchie_#3 frusher 9d.db
Dataset field/well/StkMI/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	122	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	580	70		4602

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

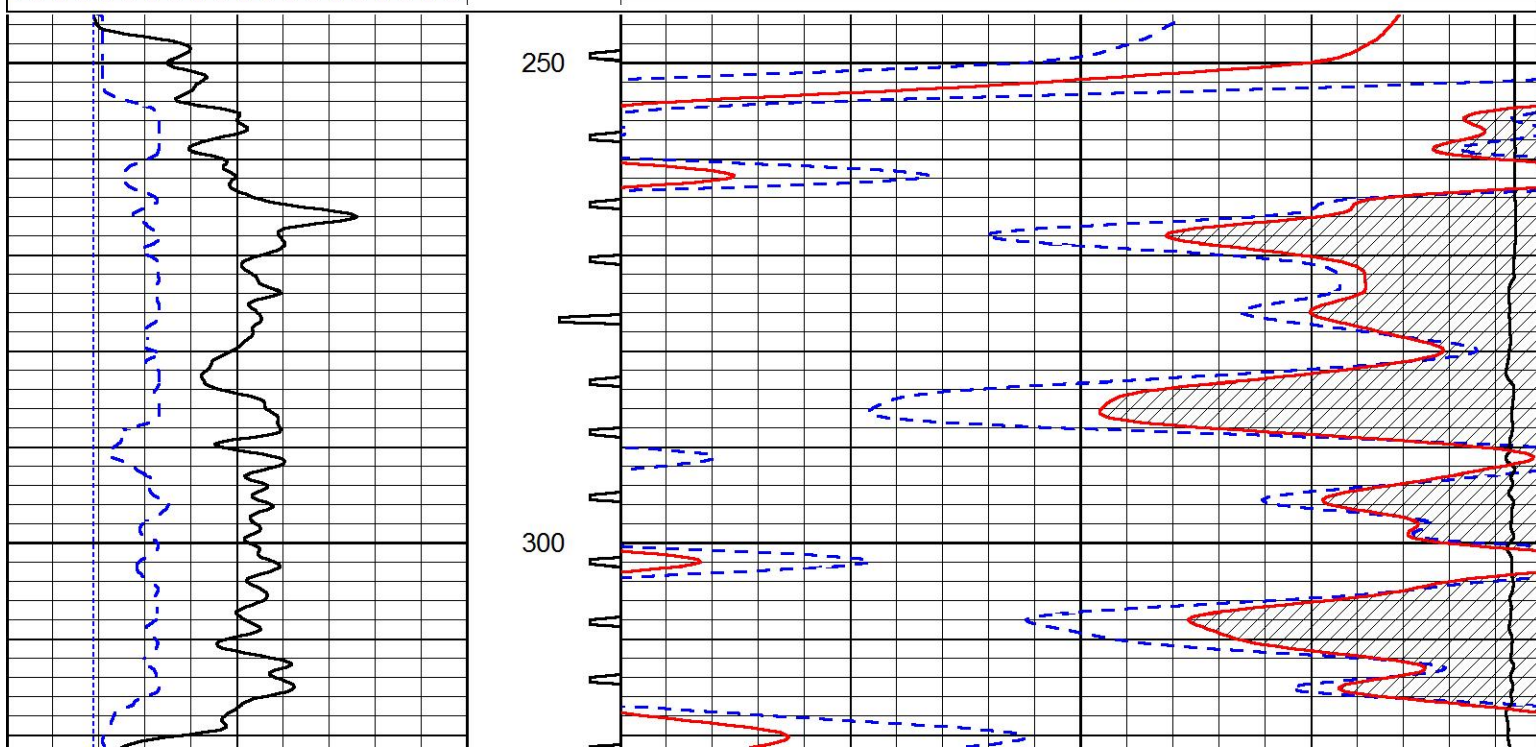


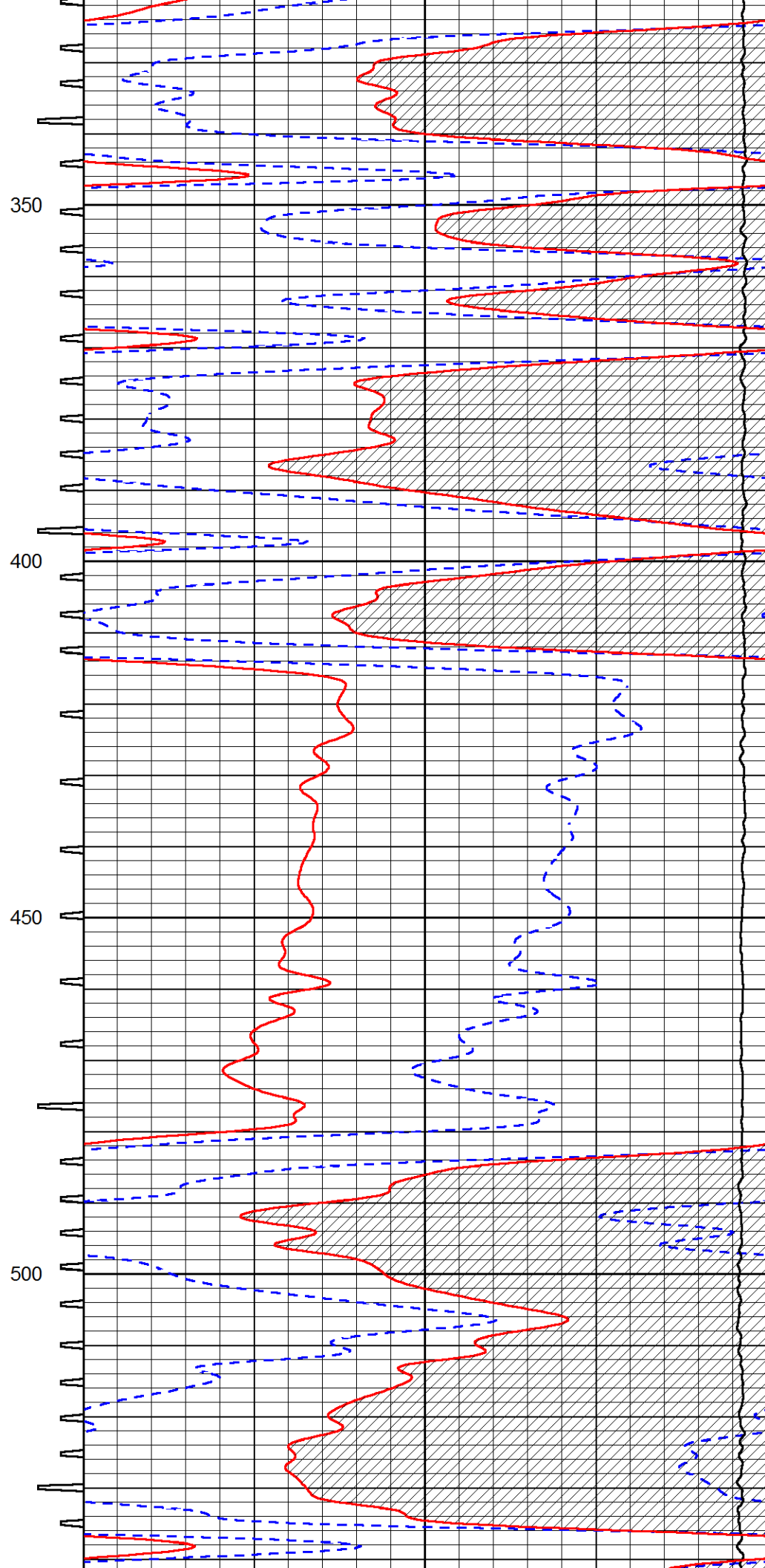
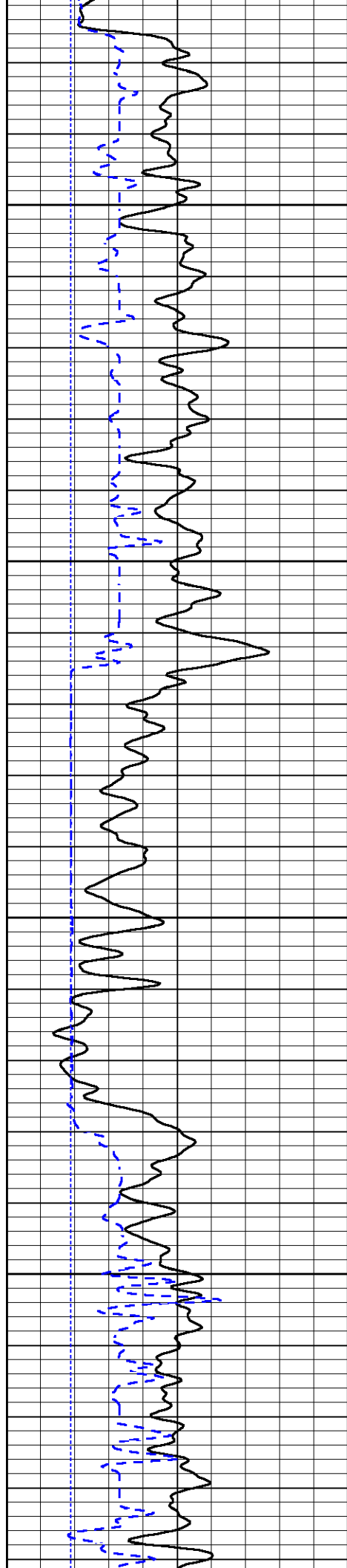
DETAIL SECTION

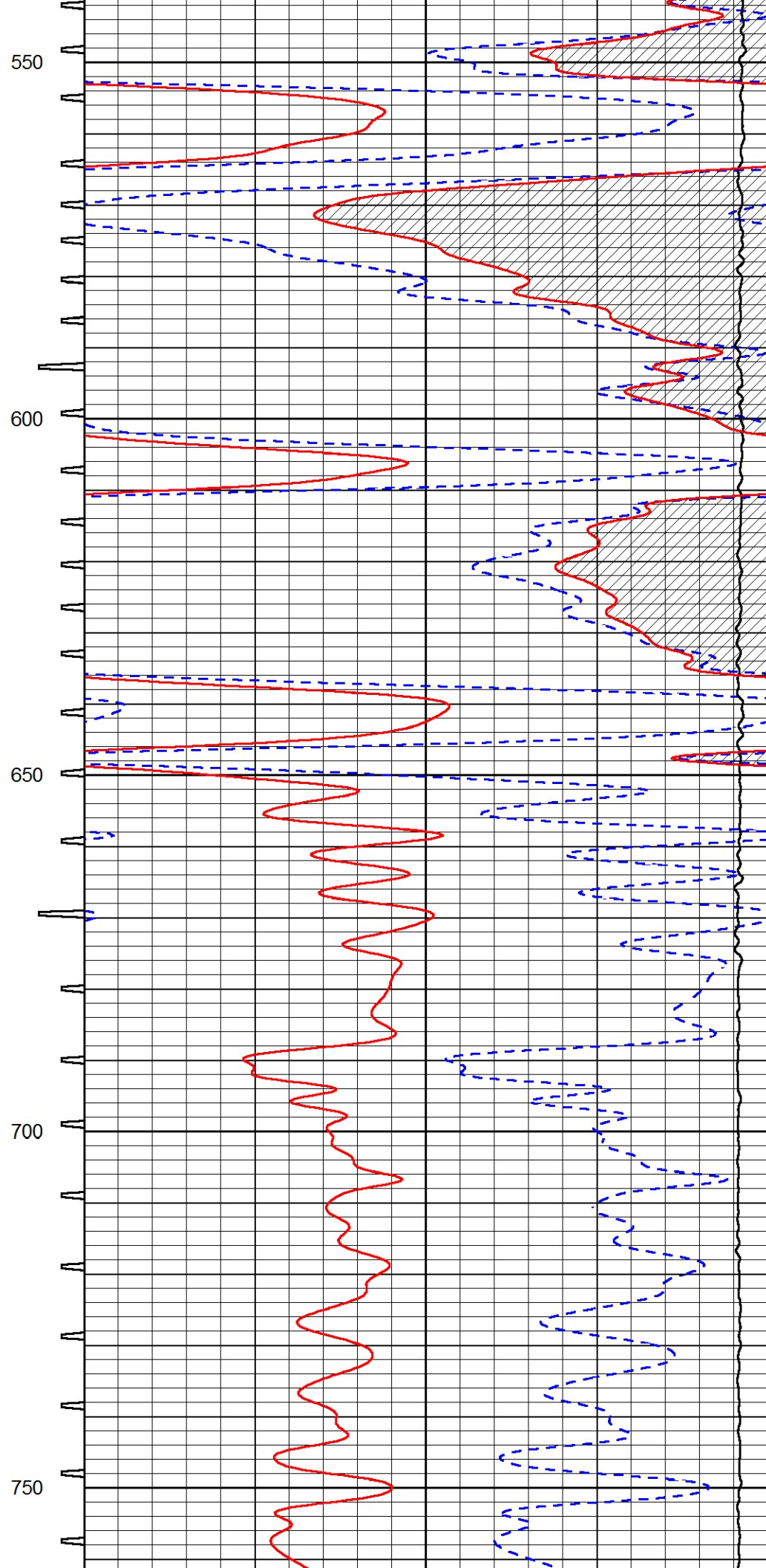
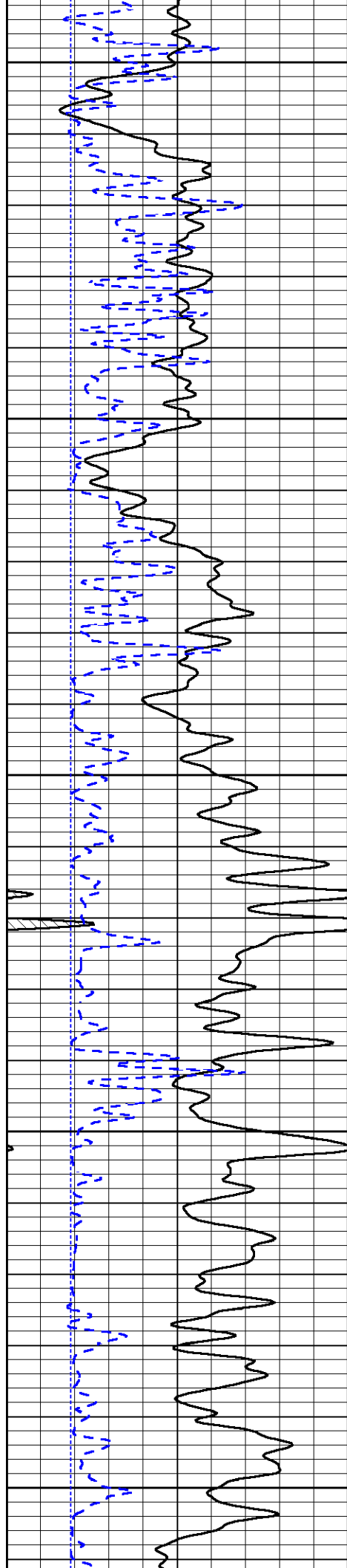
MAIN PASS

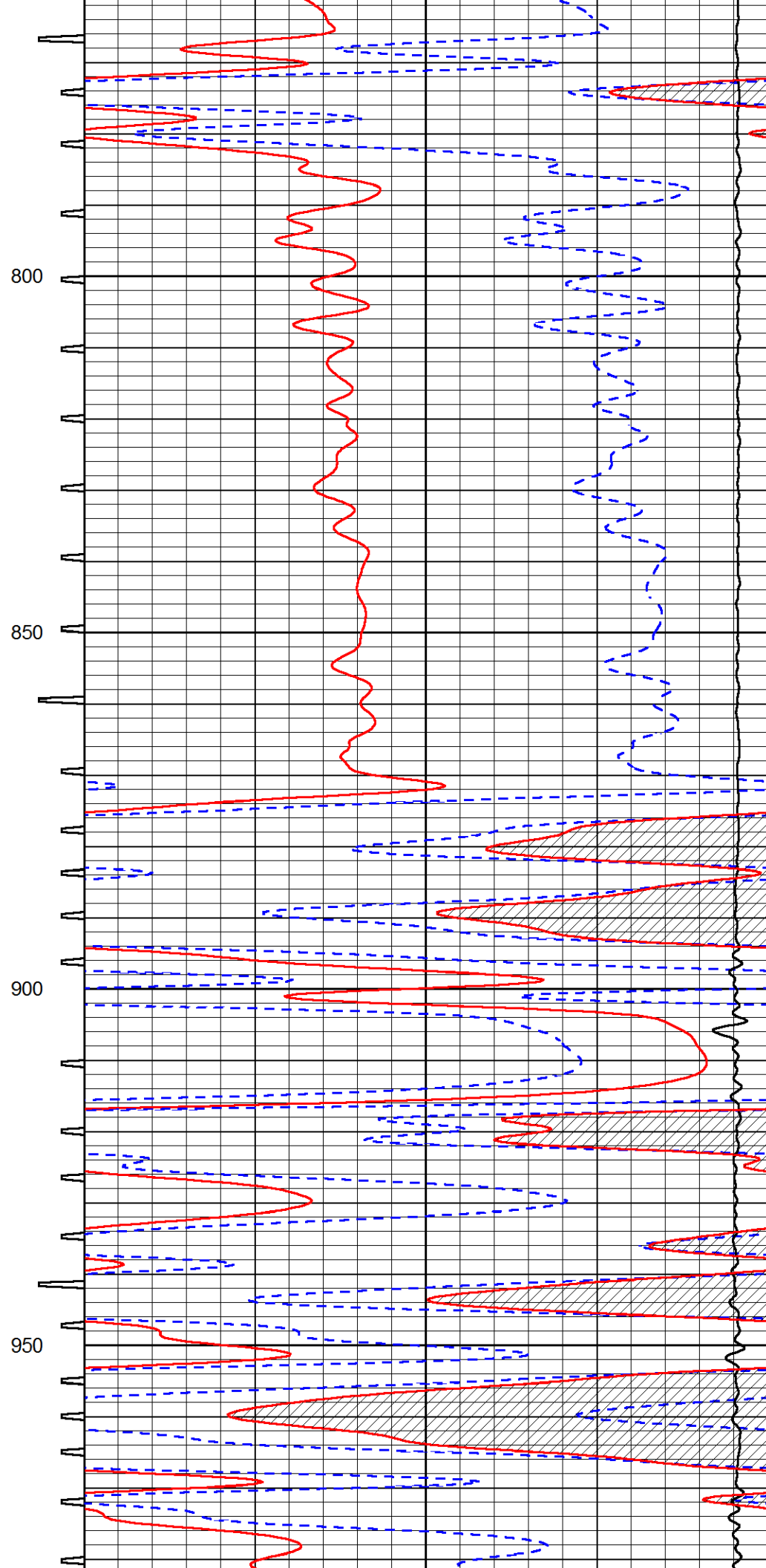
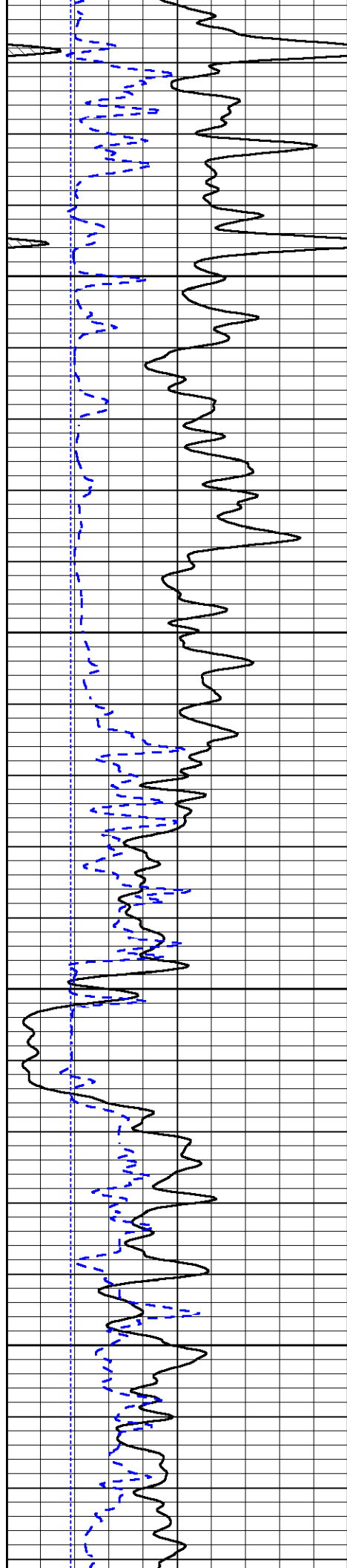
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Dataset Pathname StkMI/pass3.1
Presentation Format sonic
Dataset Creation Sun Jun 13 09:46:34 2021
Charted by Depth in Feet scaled 1:240

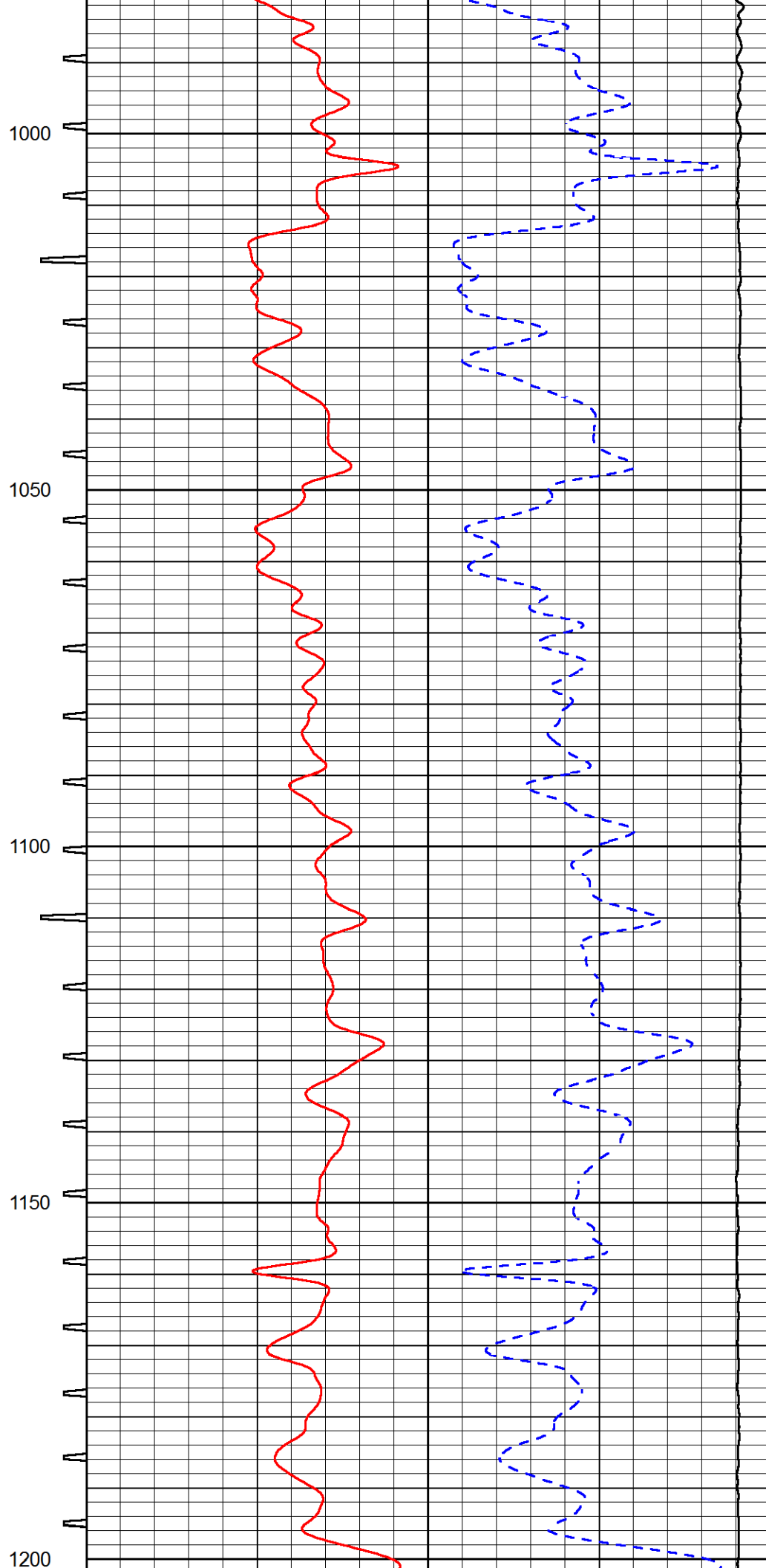
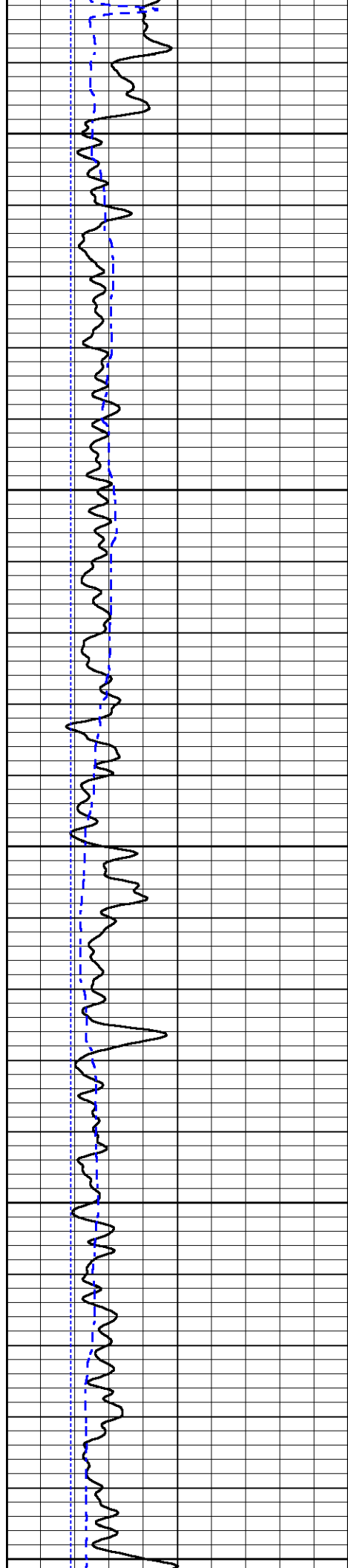
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

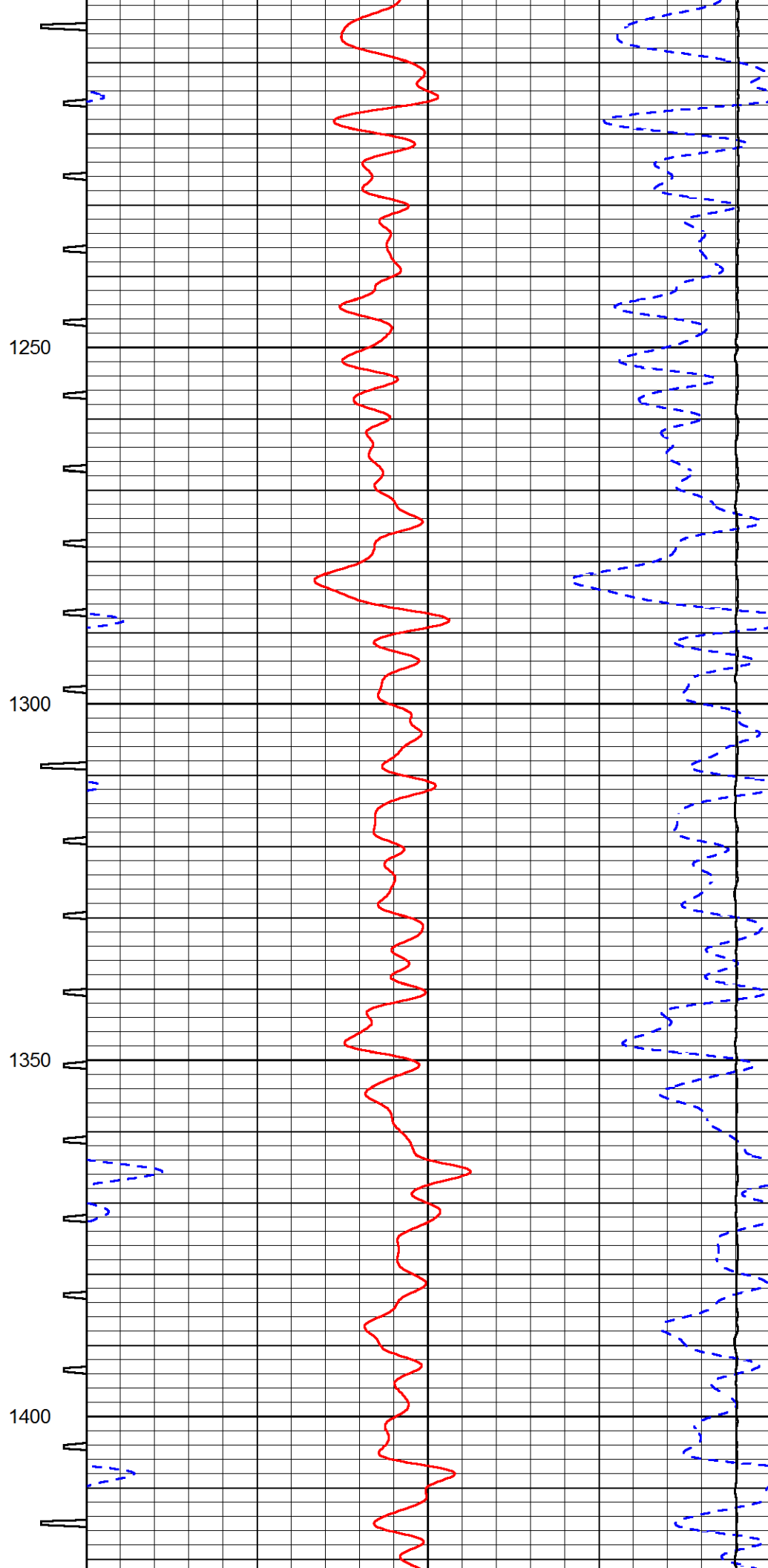
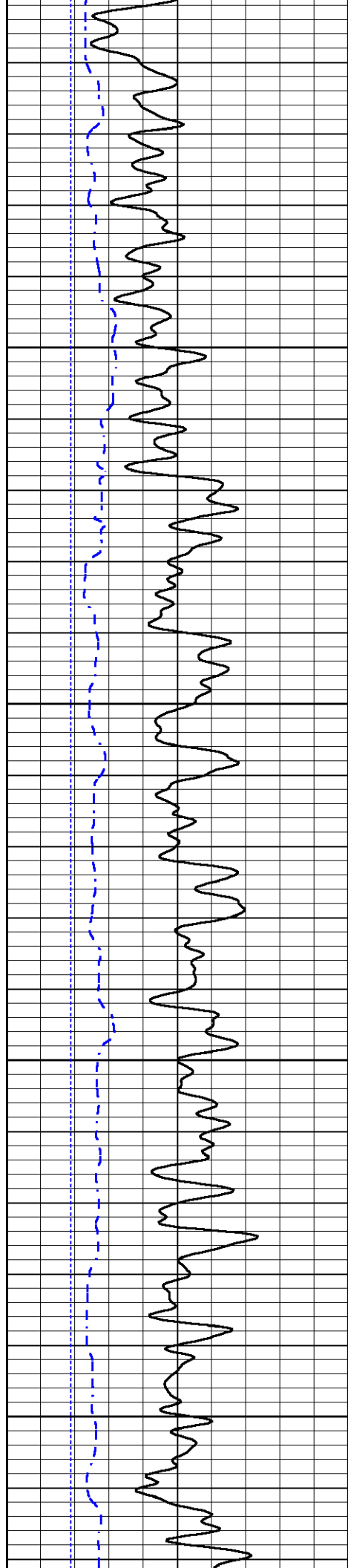


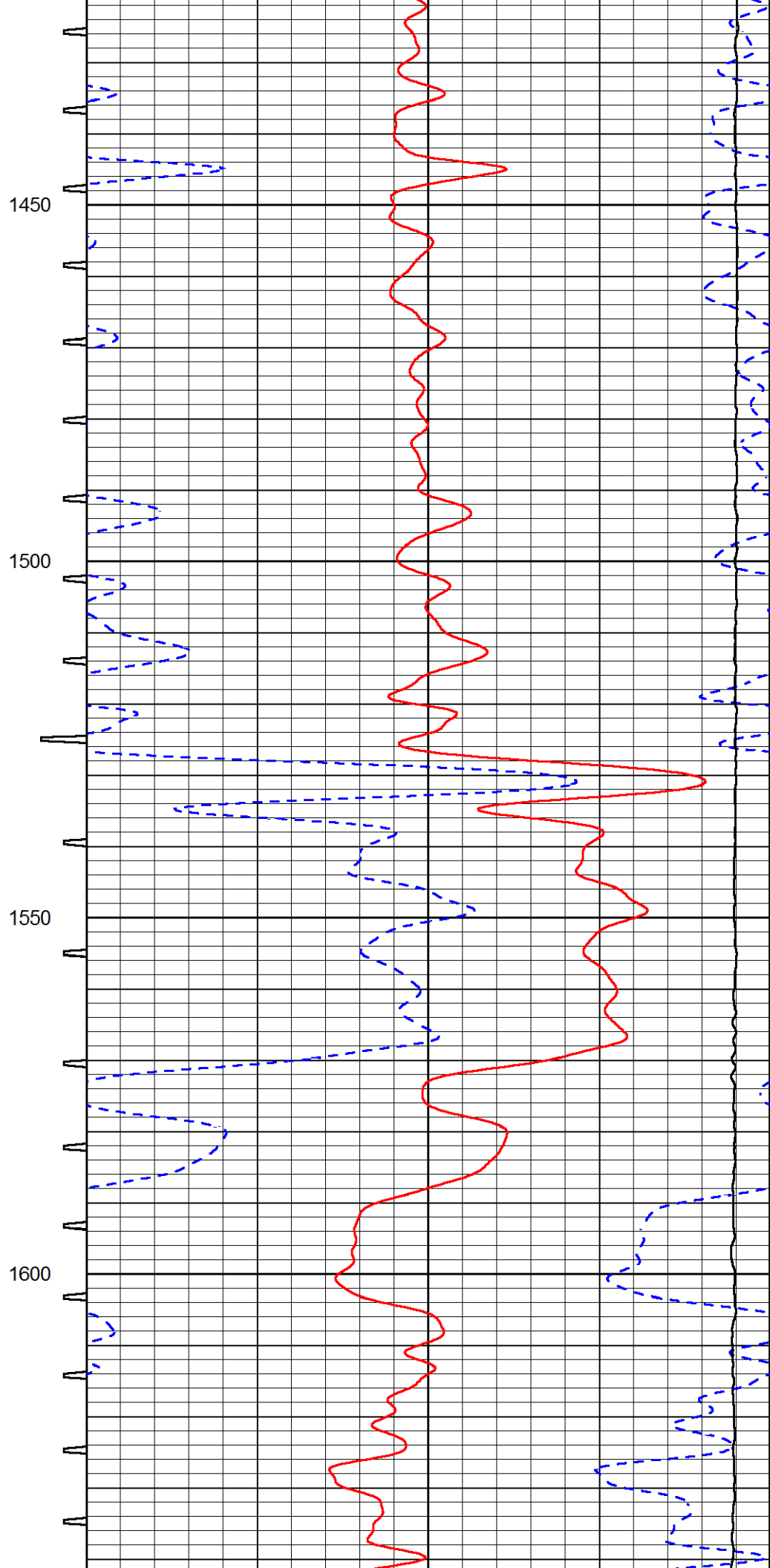
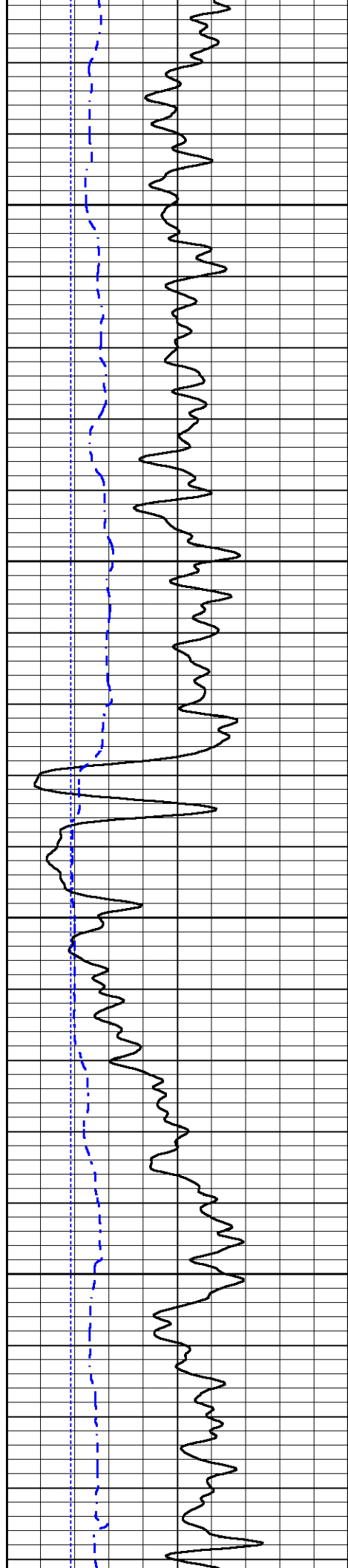


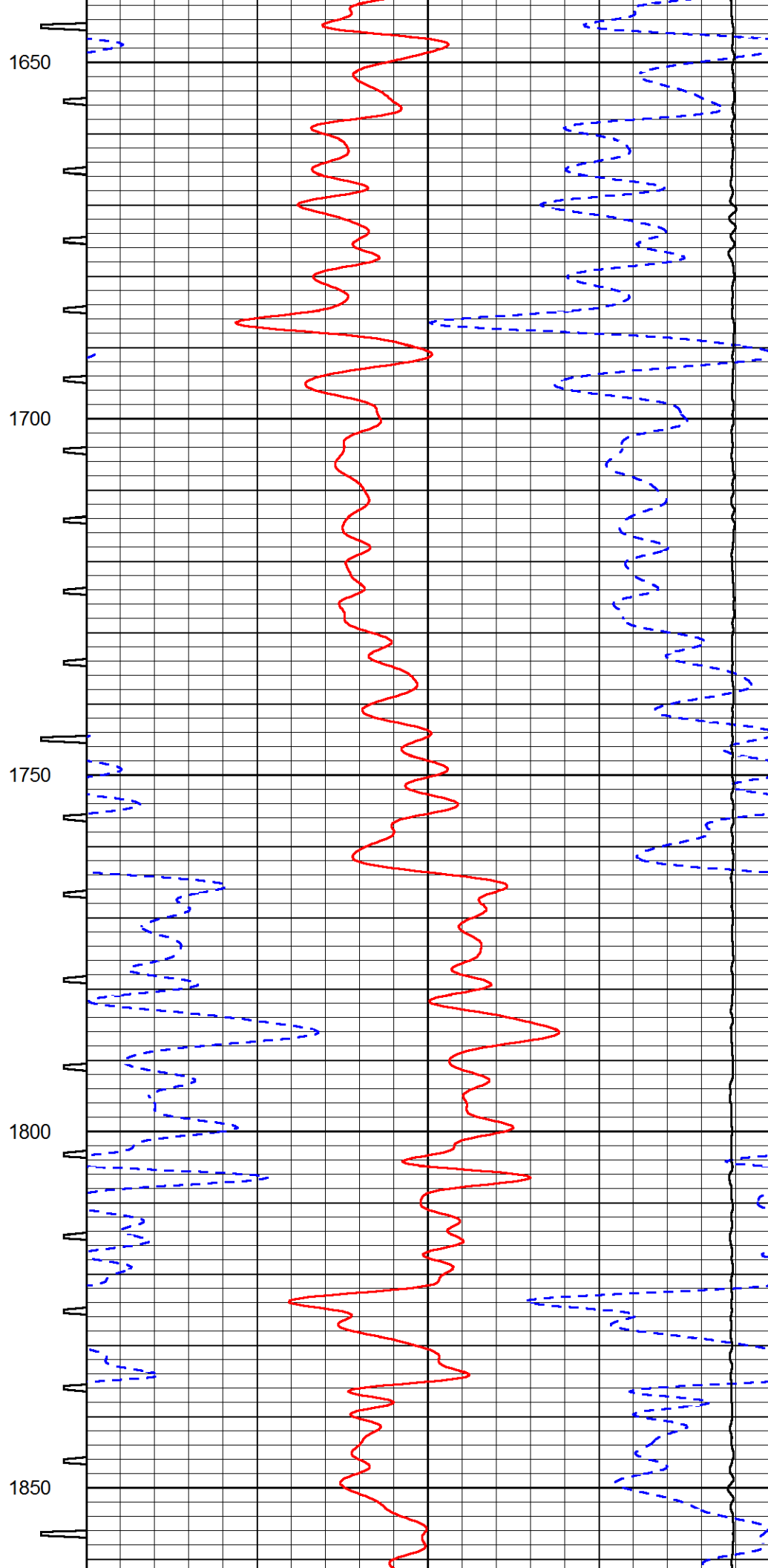
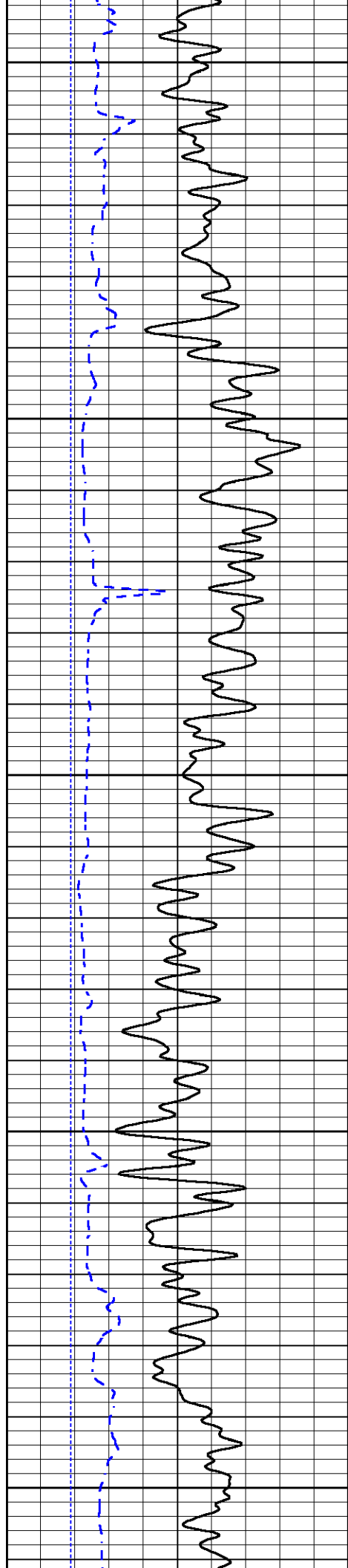


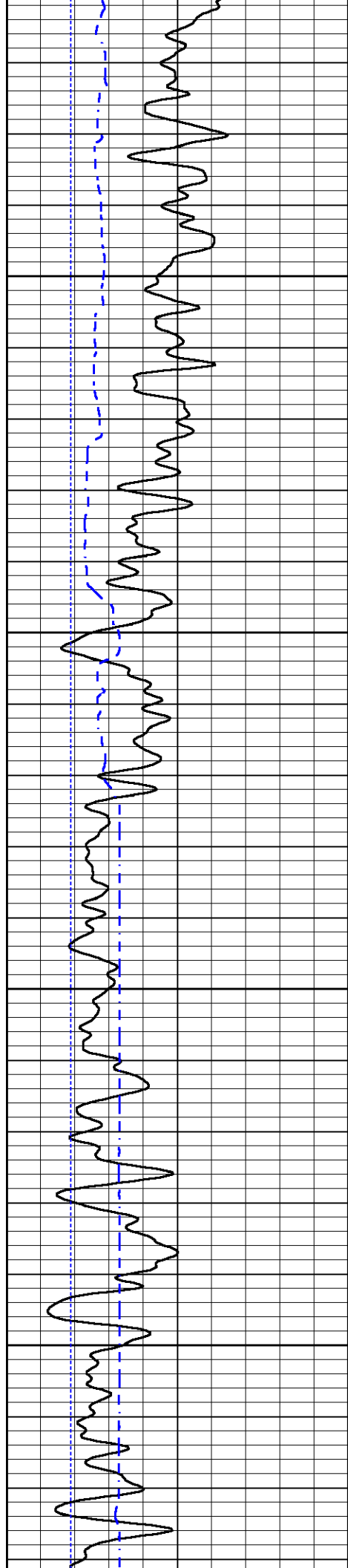
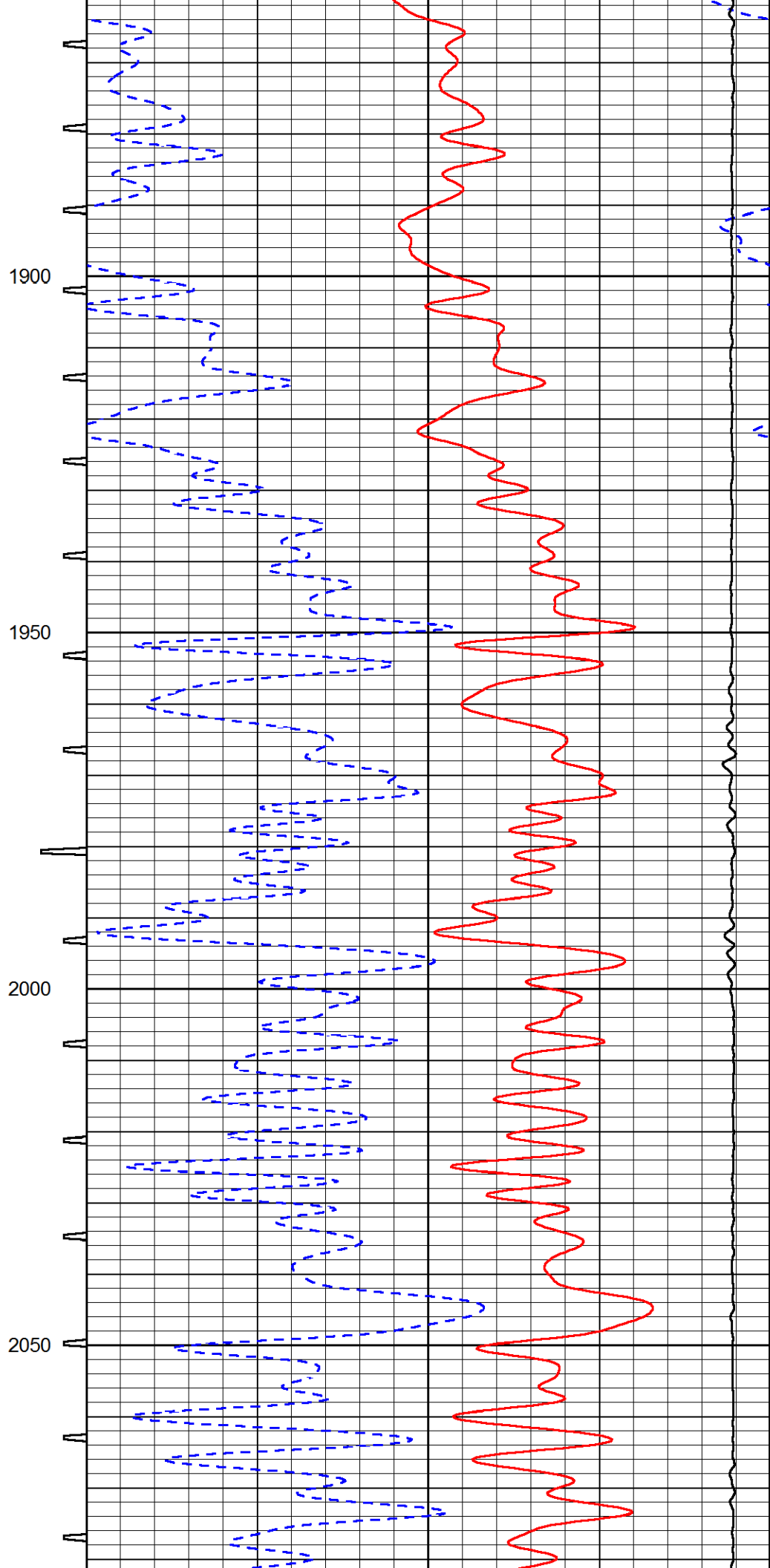


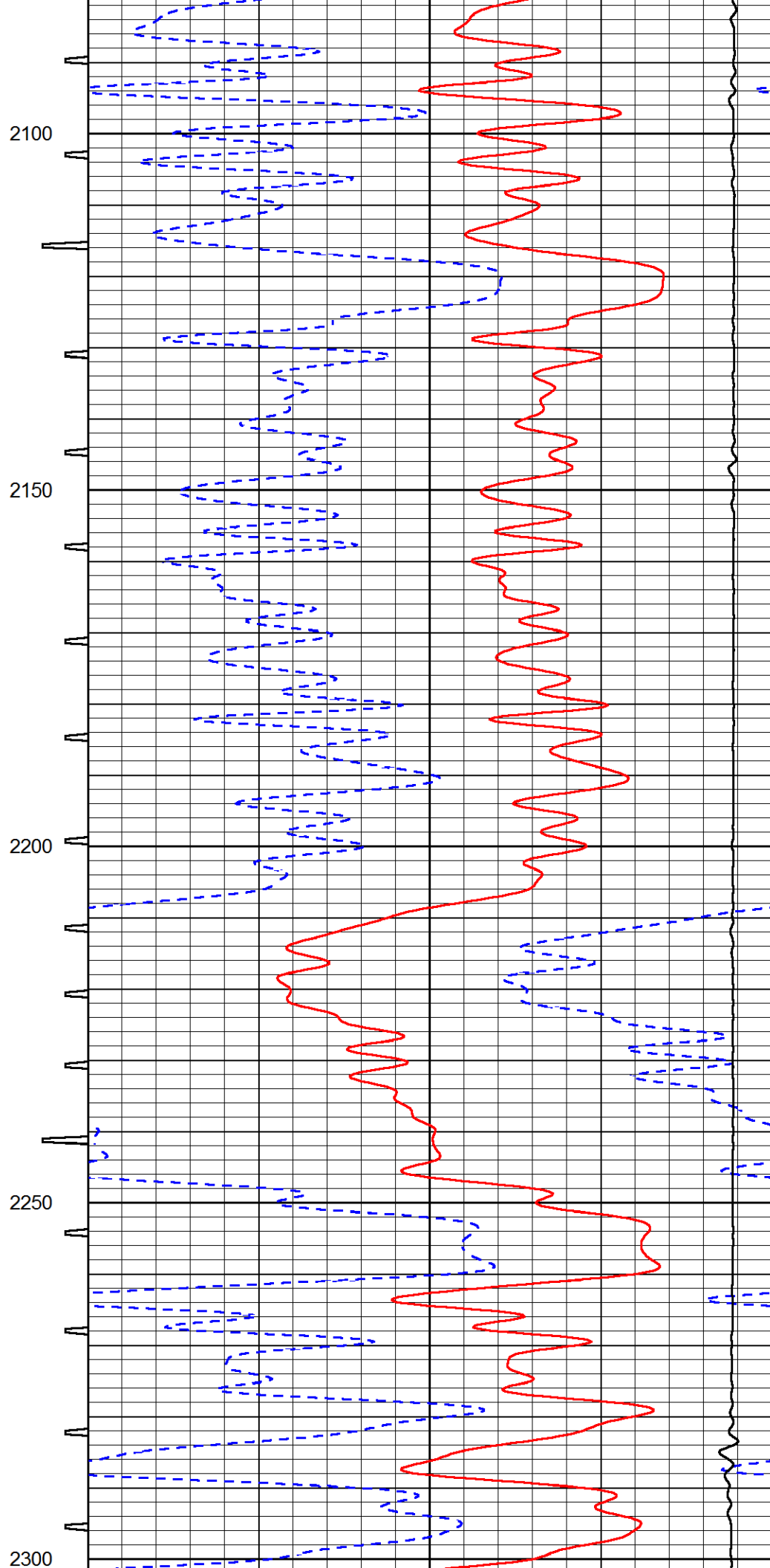
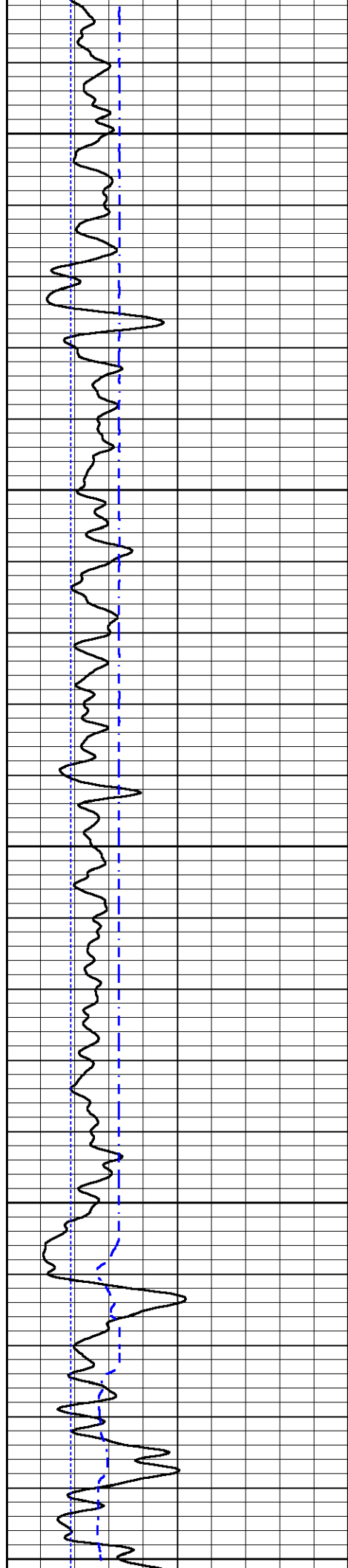


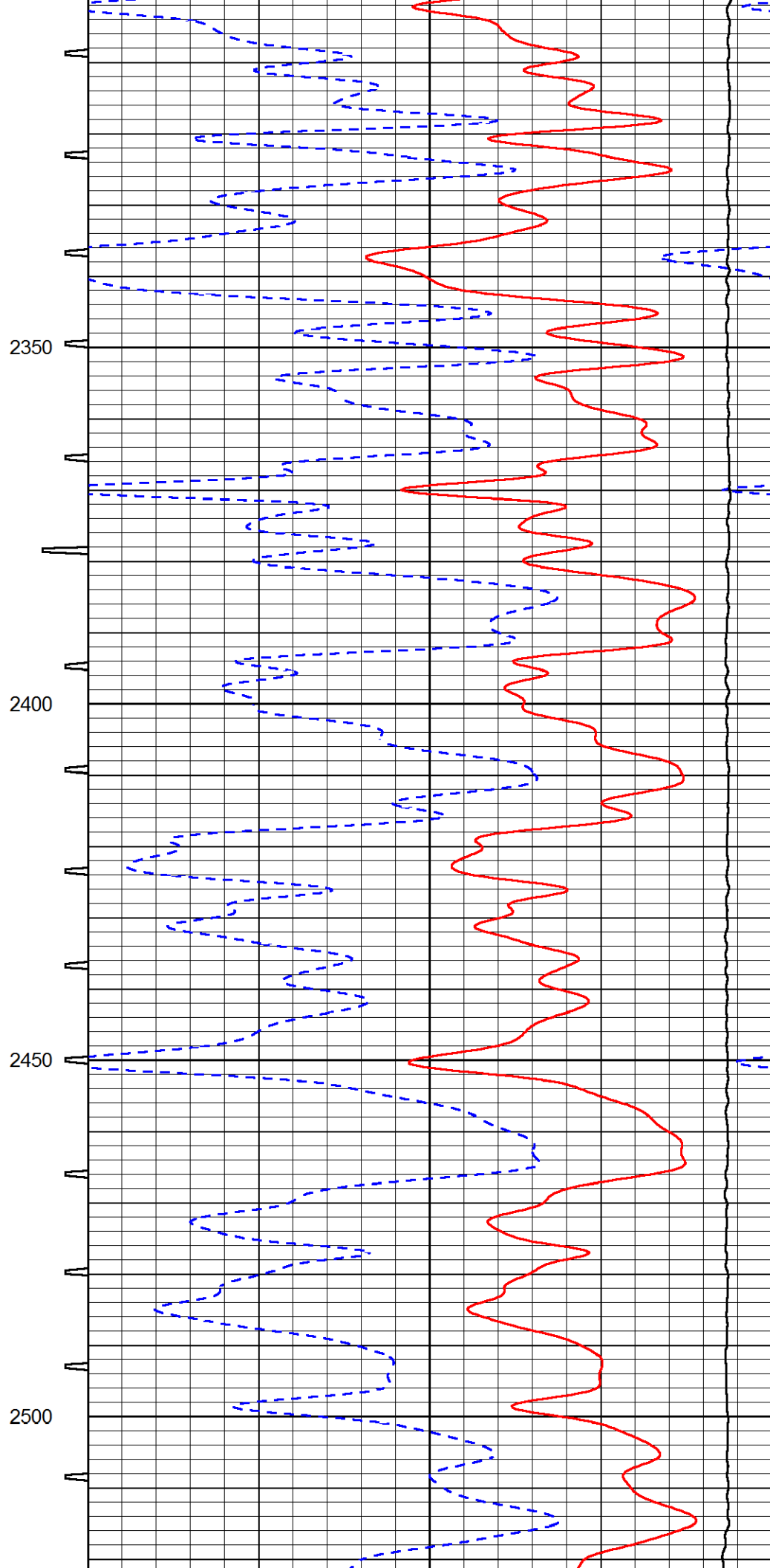
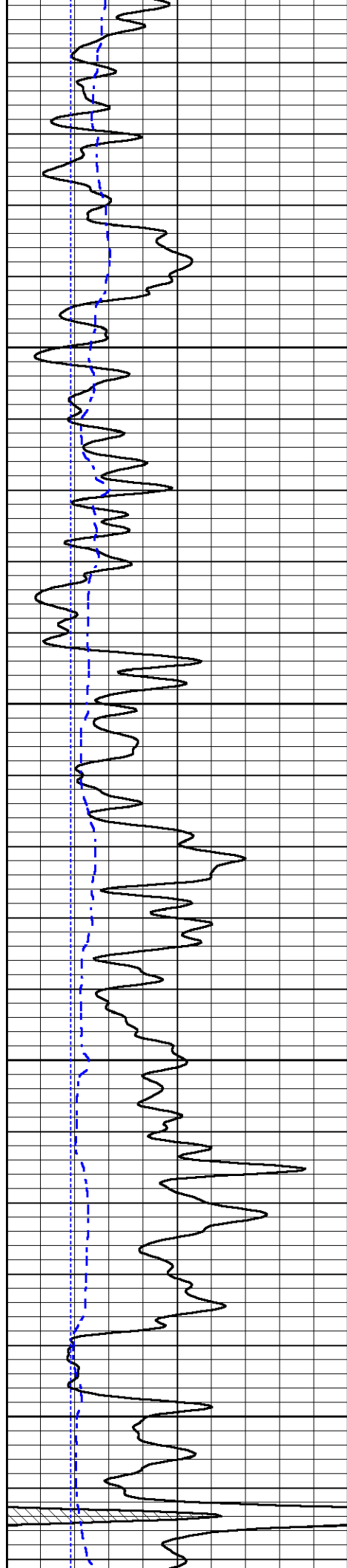


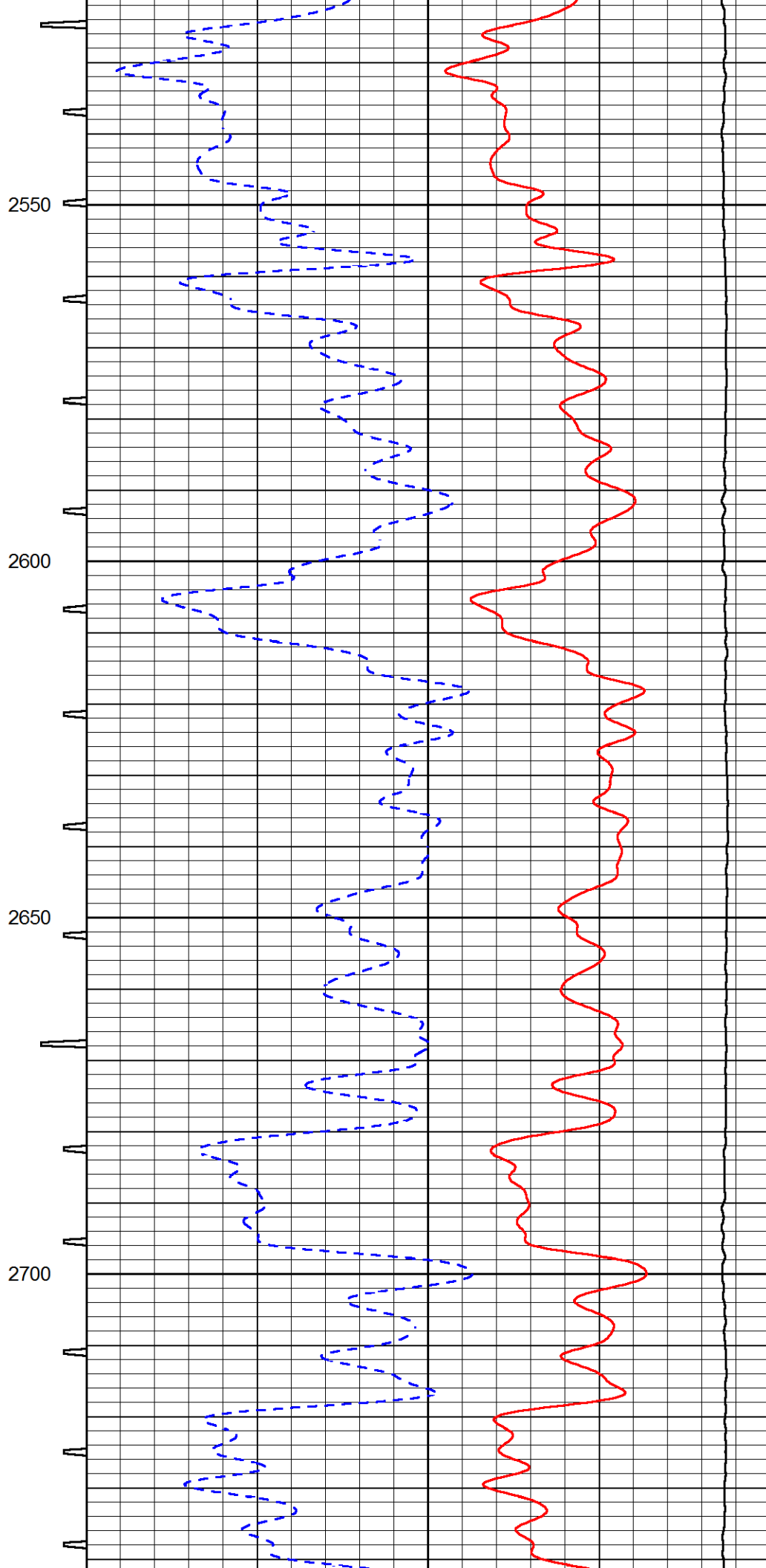
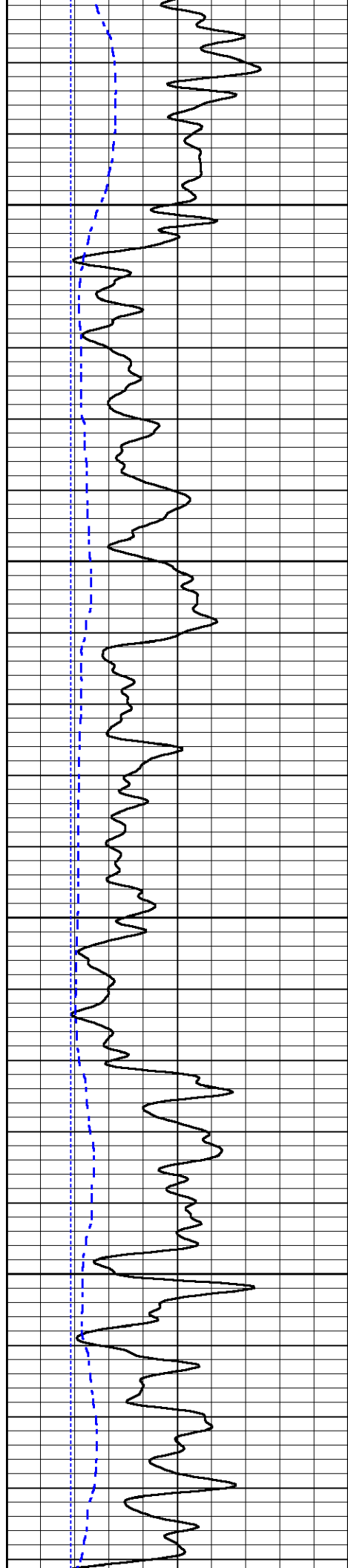


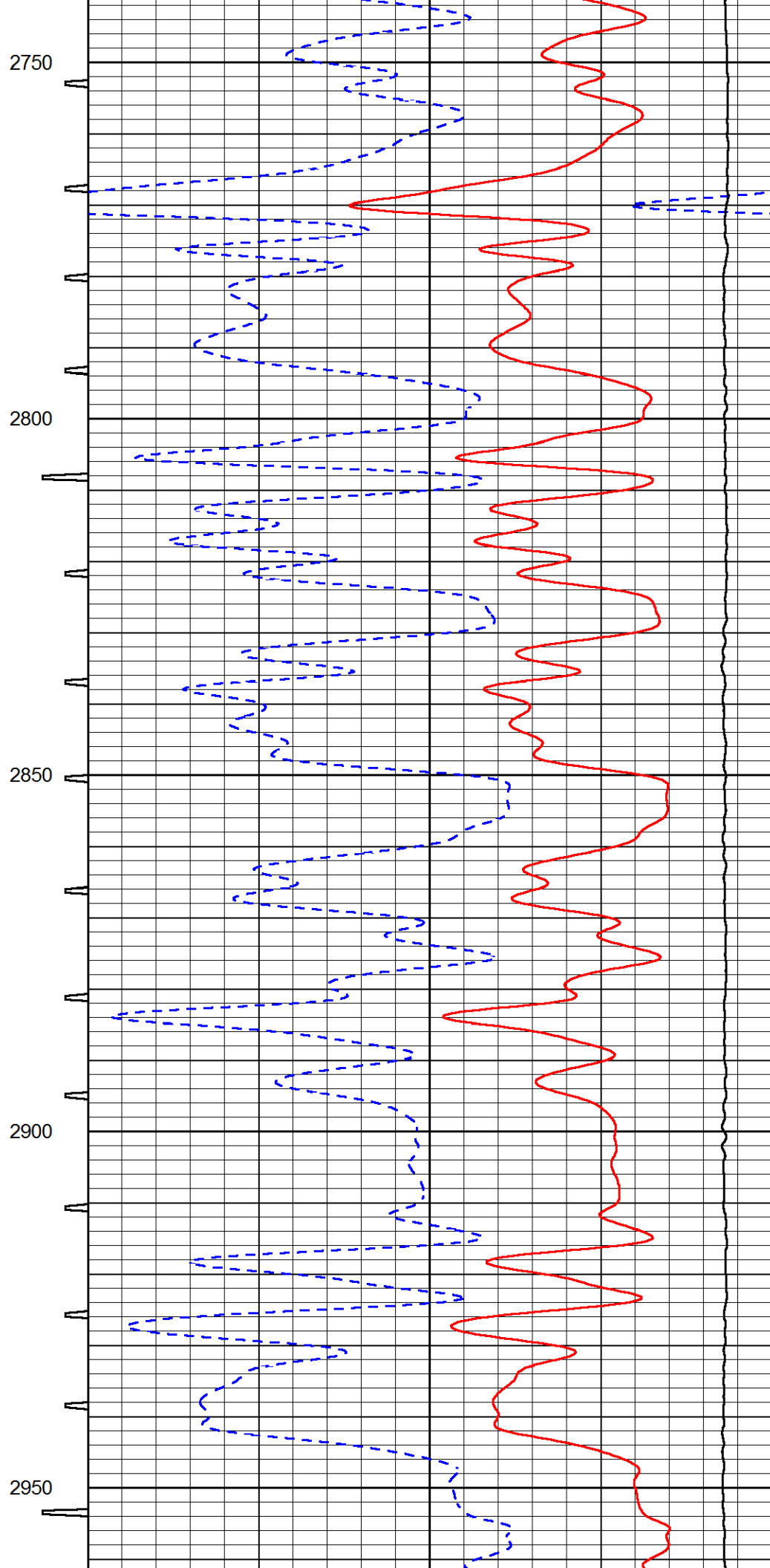
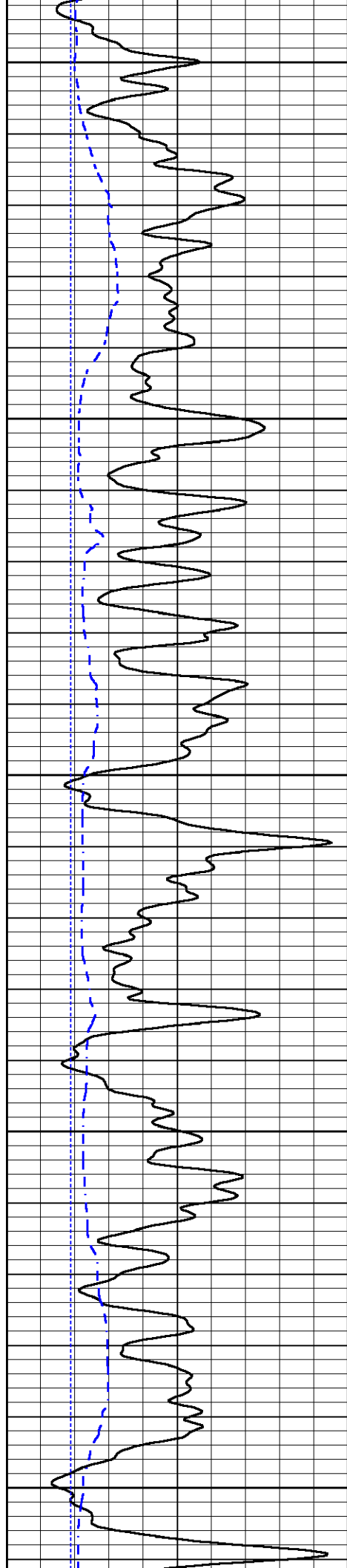


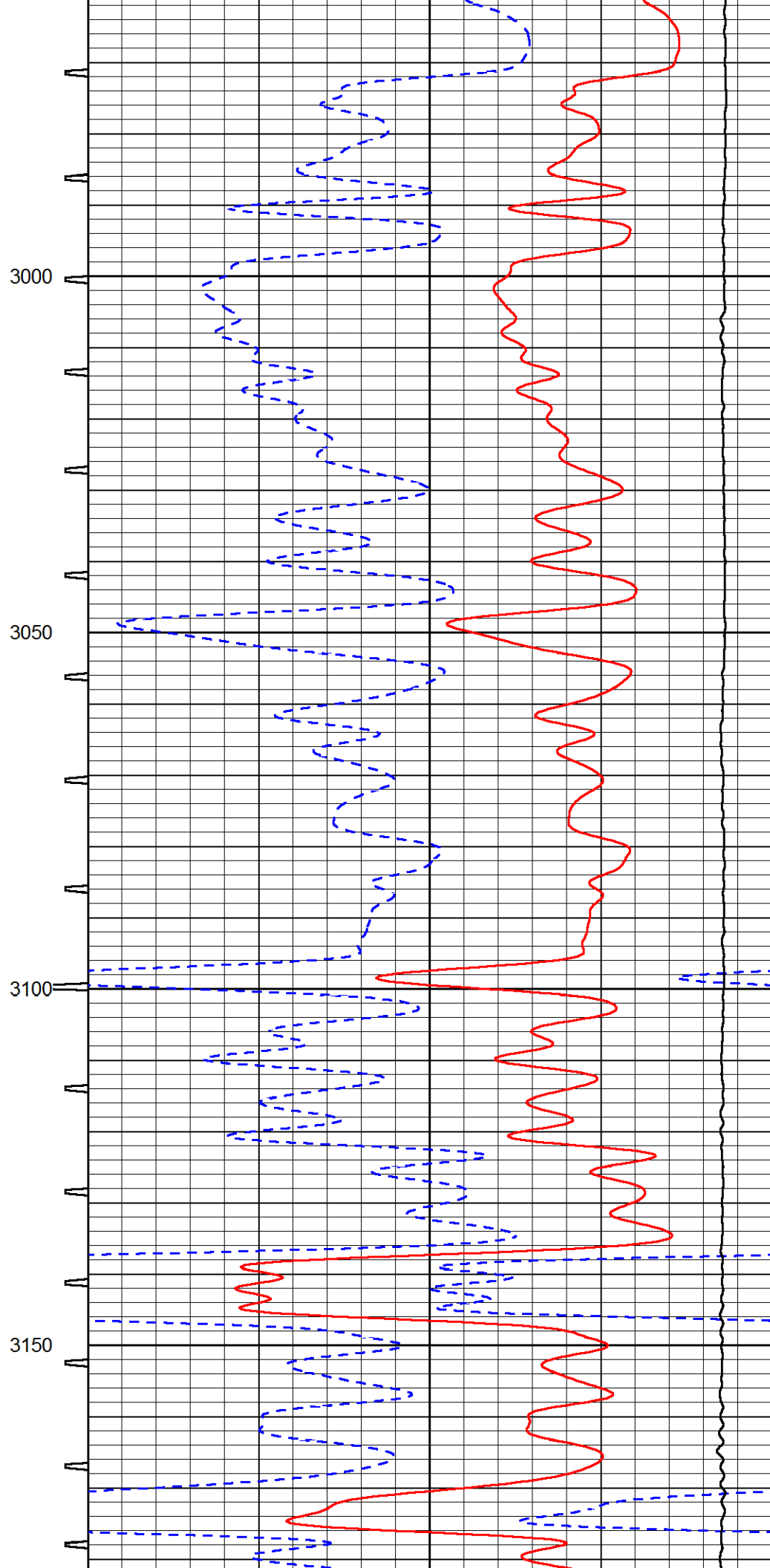
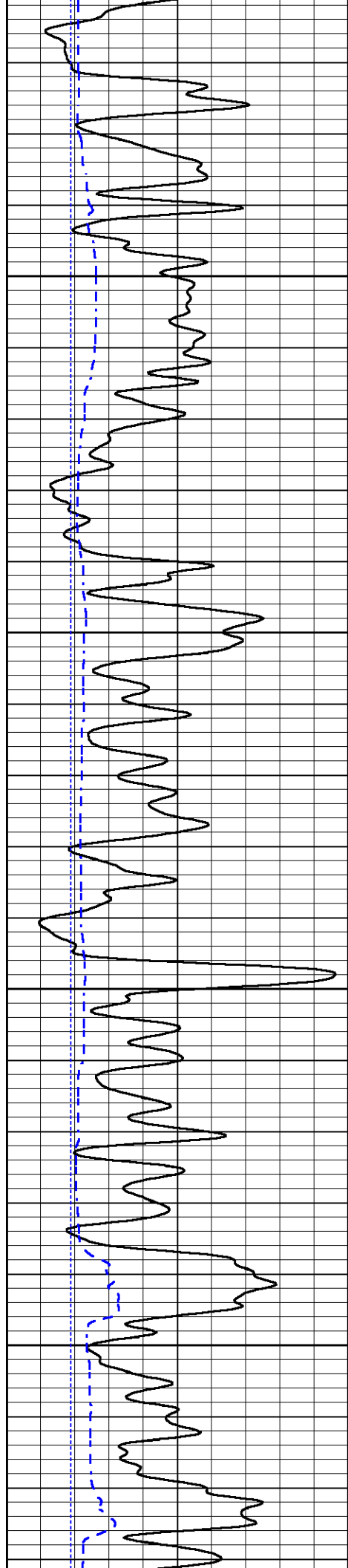


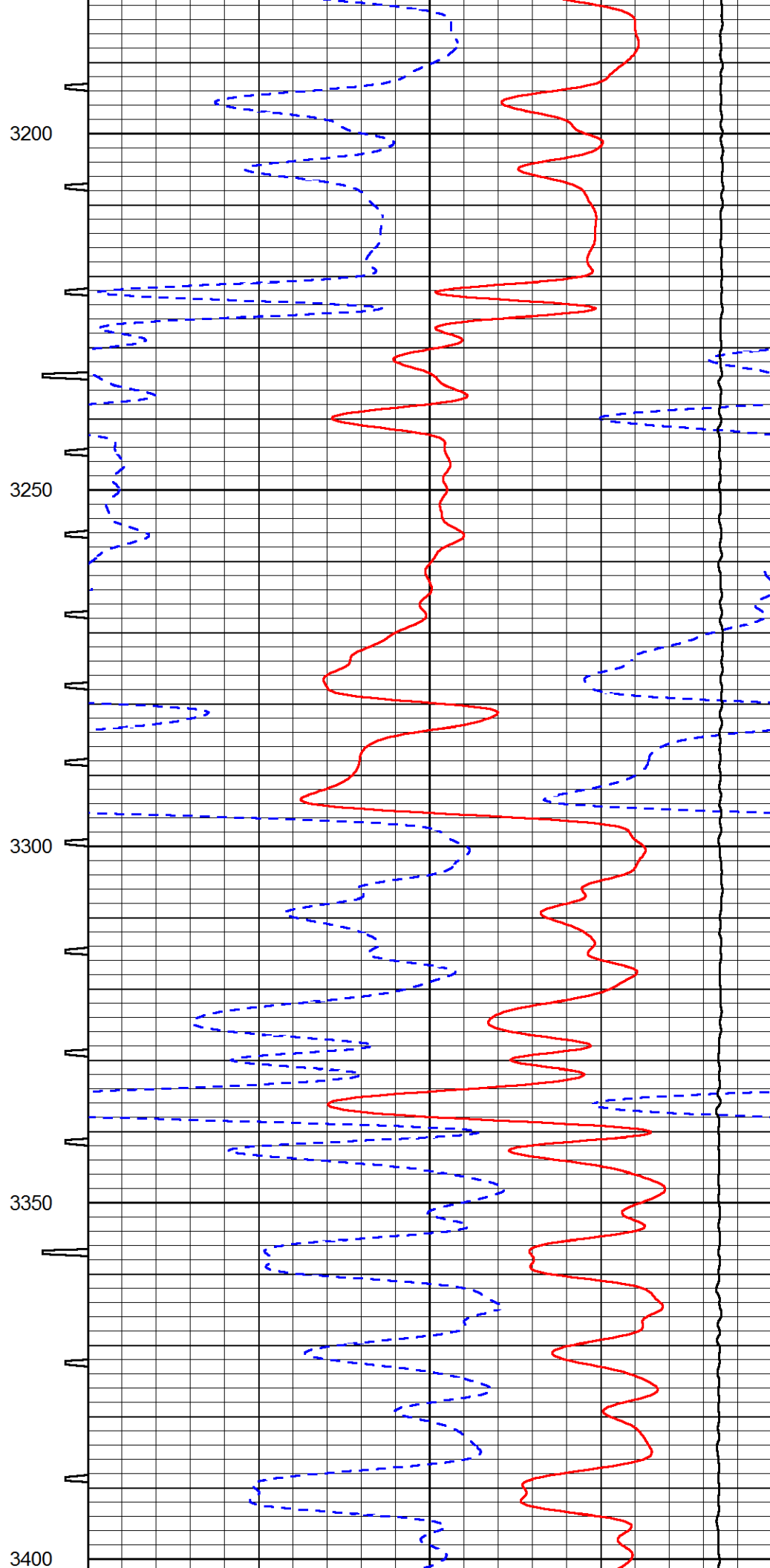
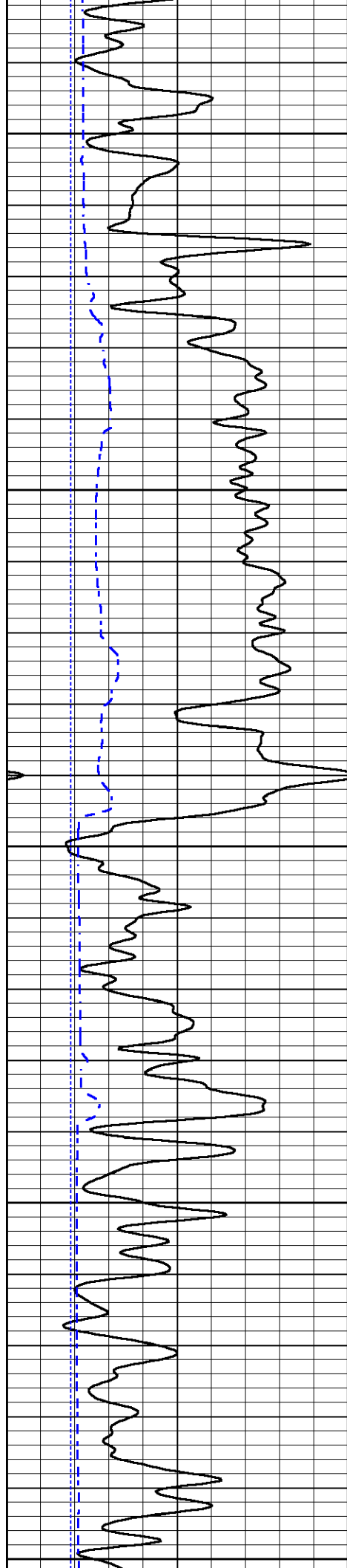


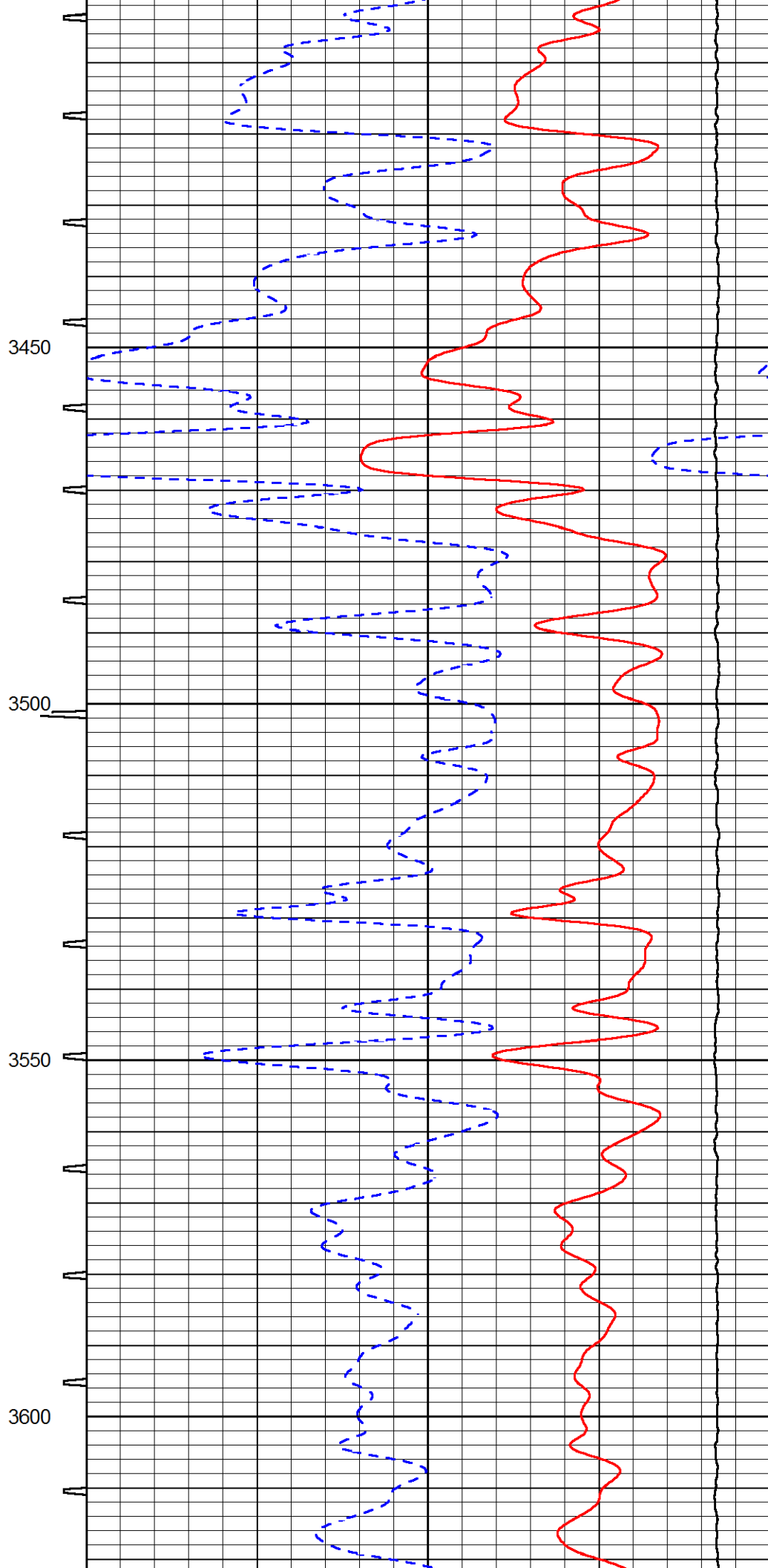
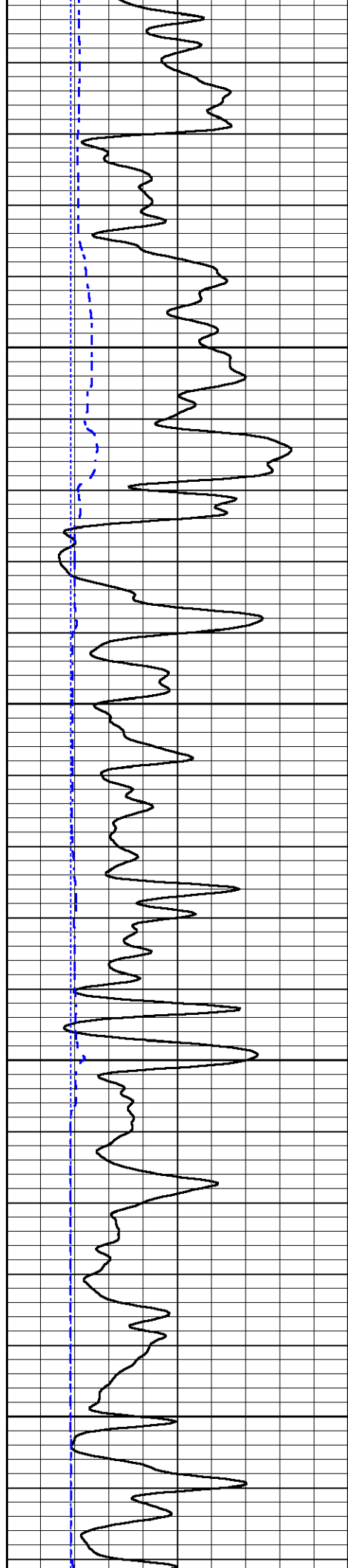


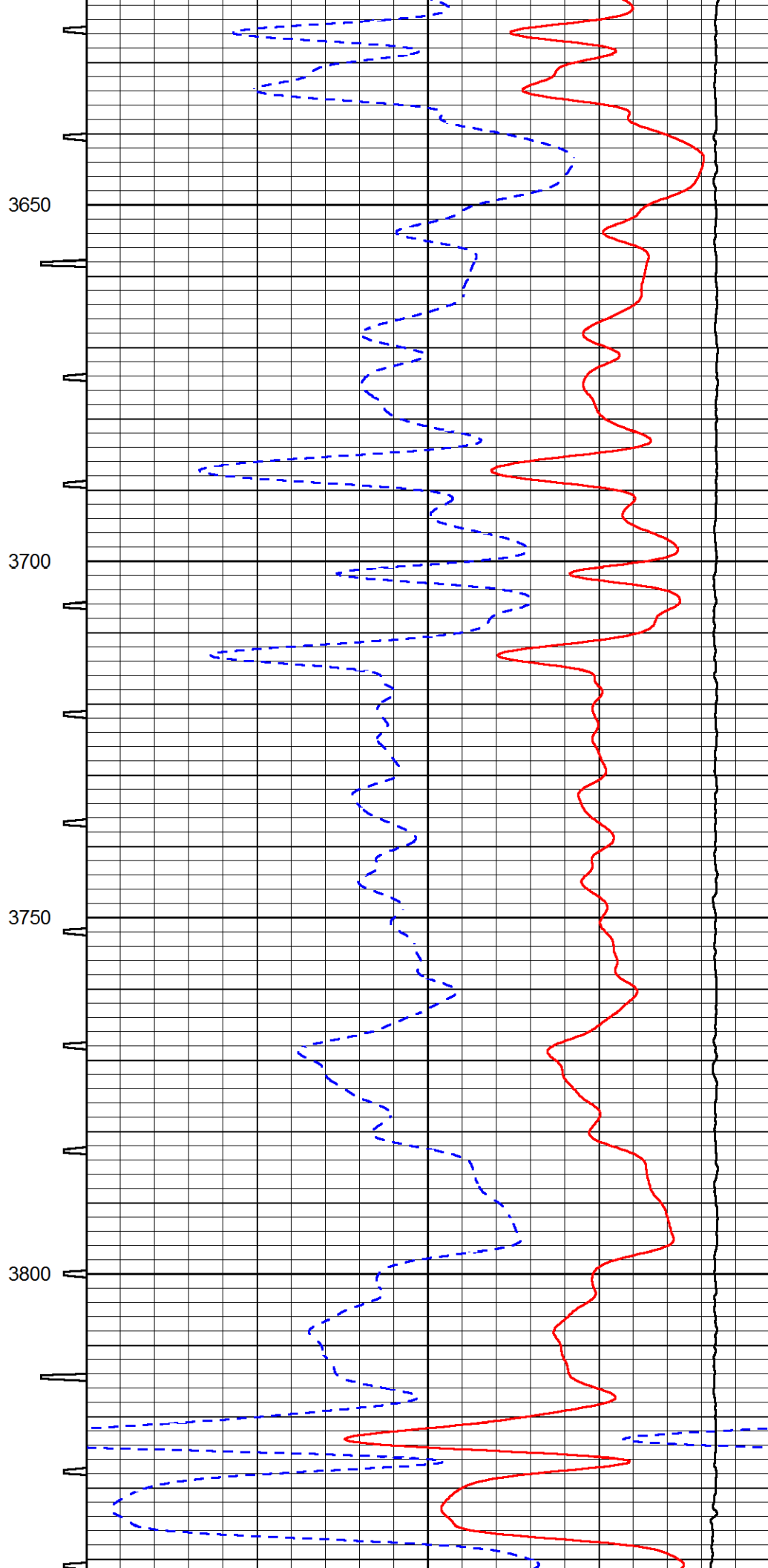
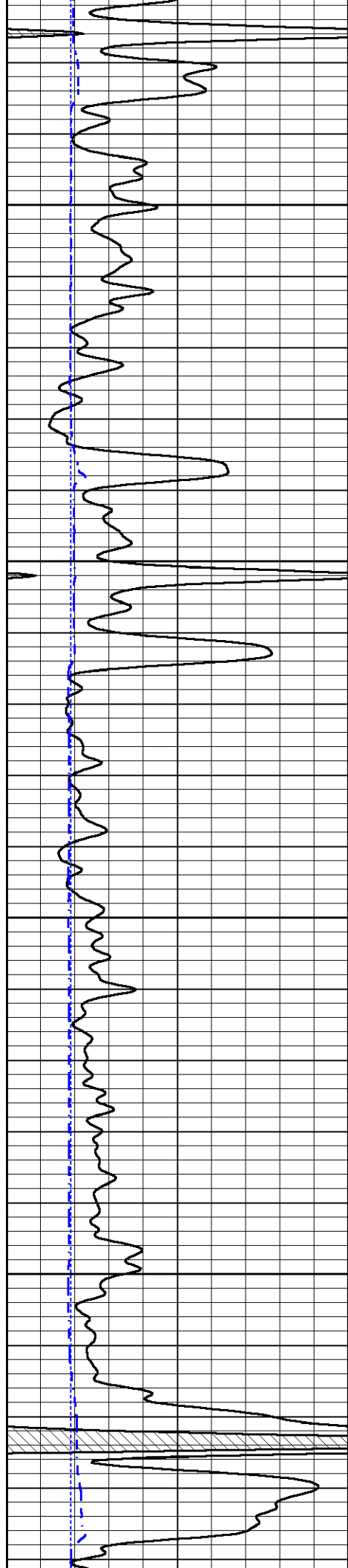


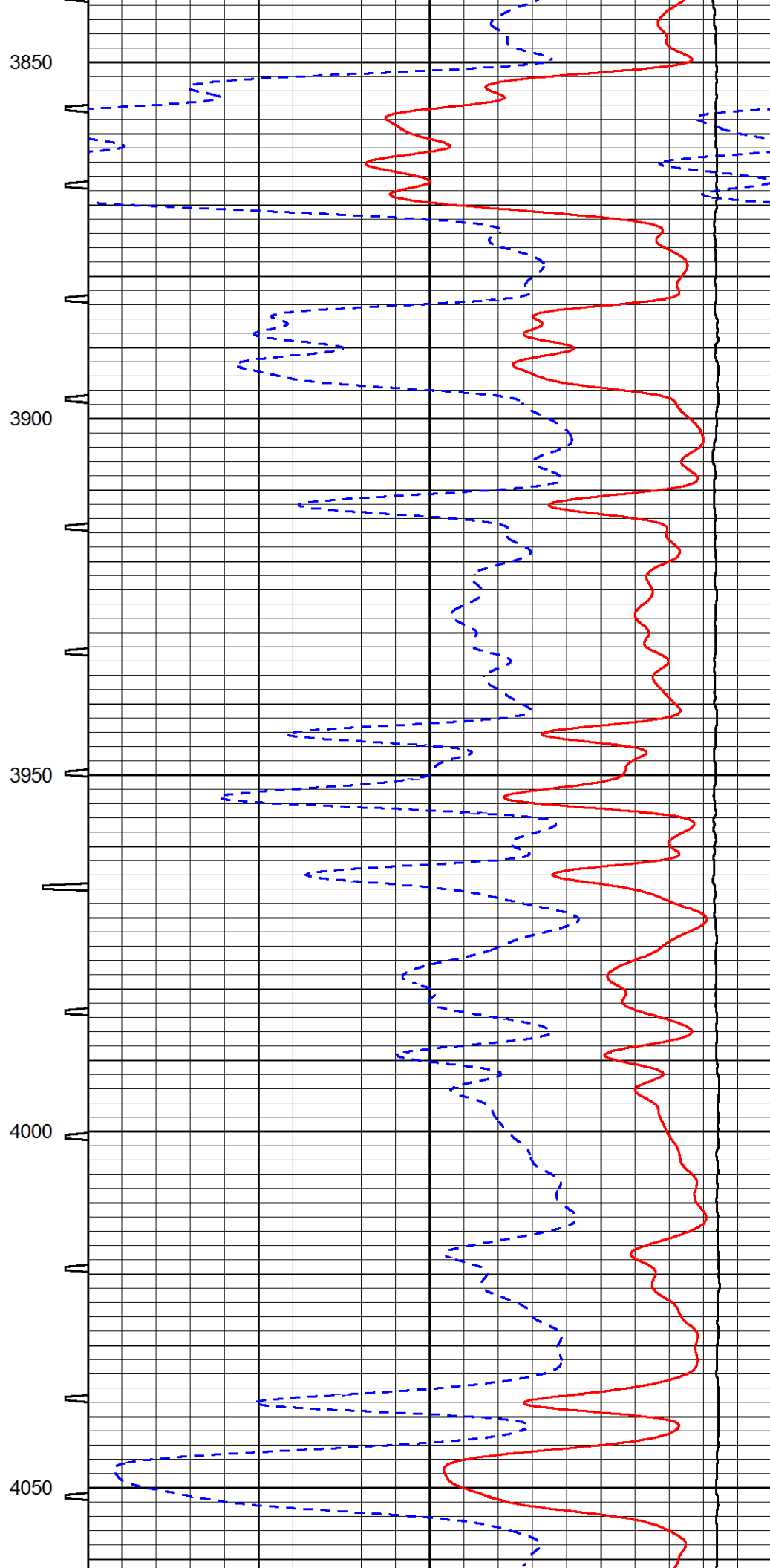
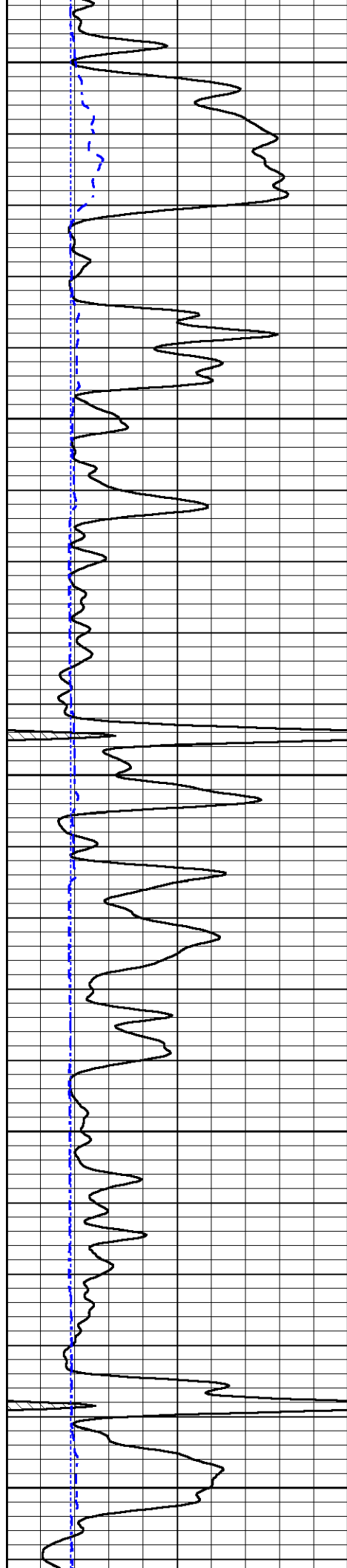


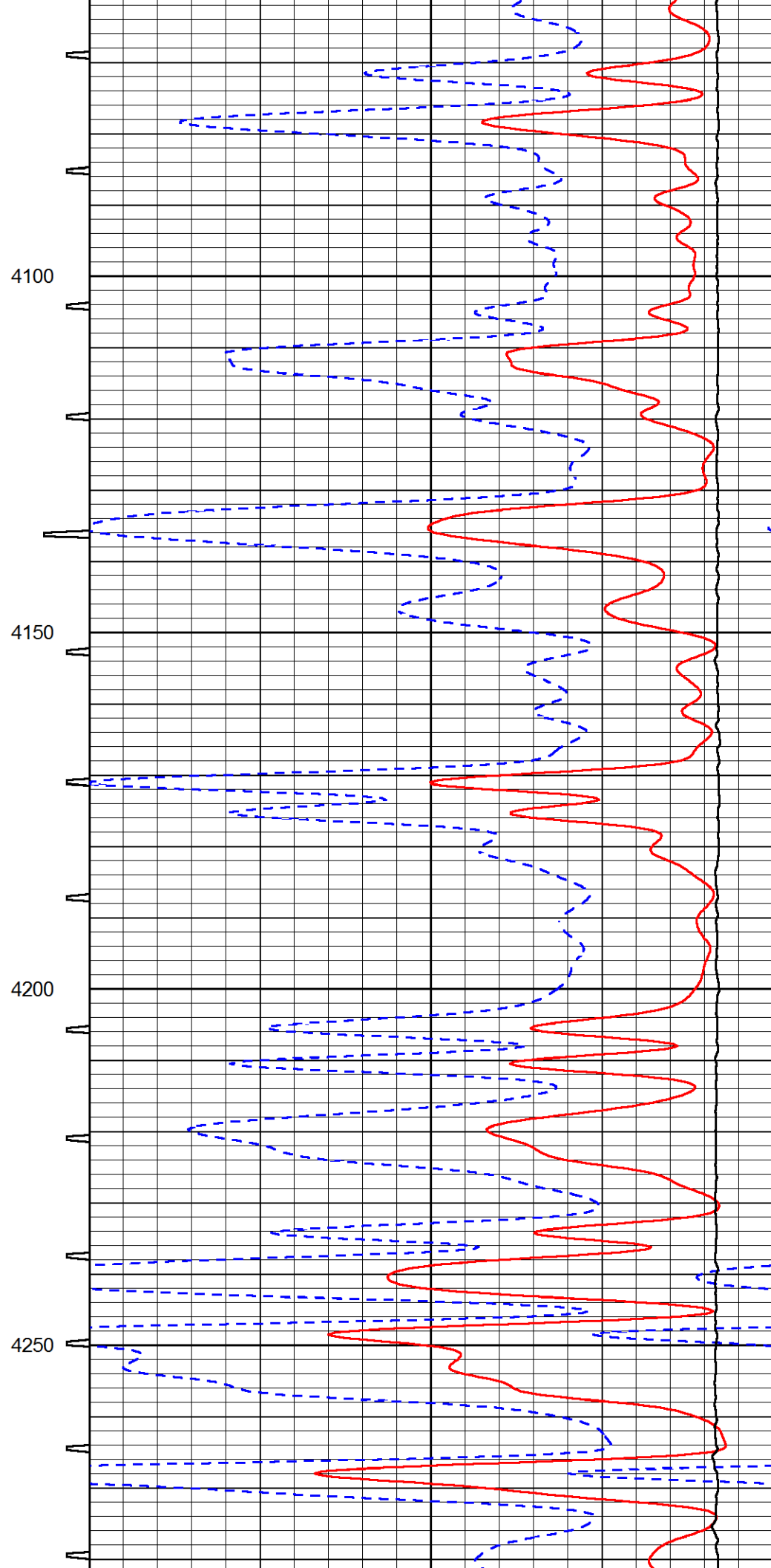
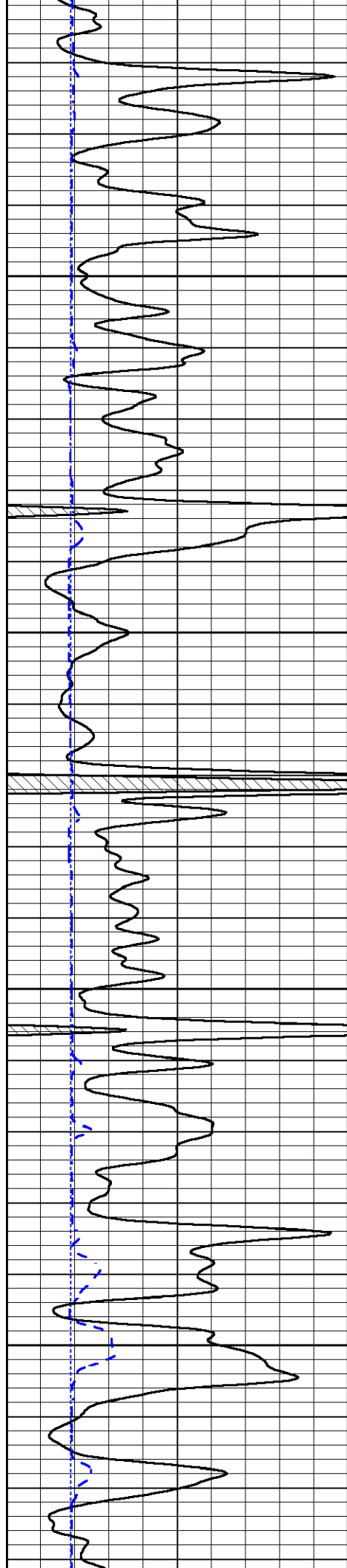


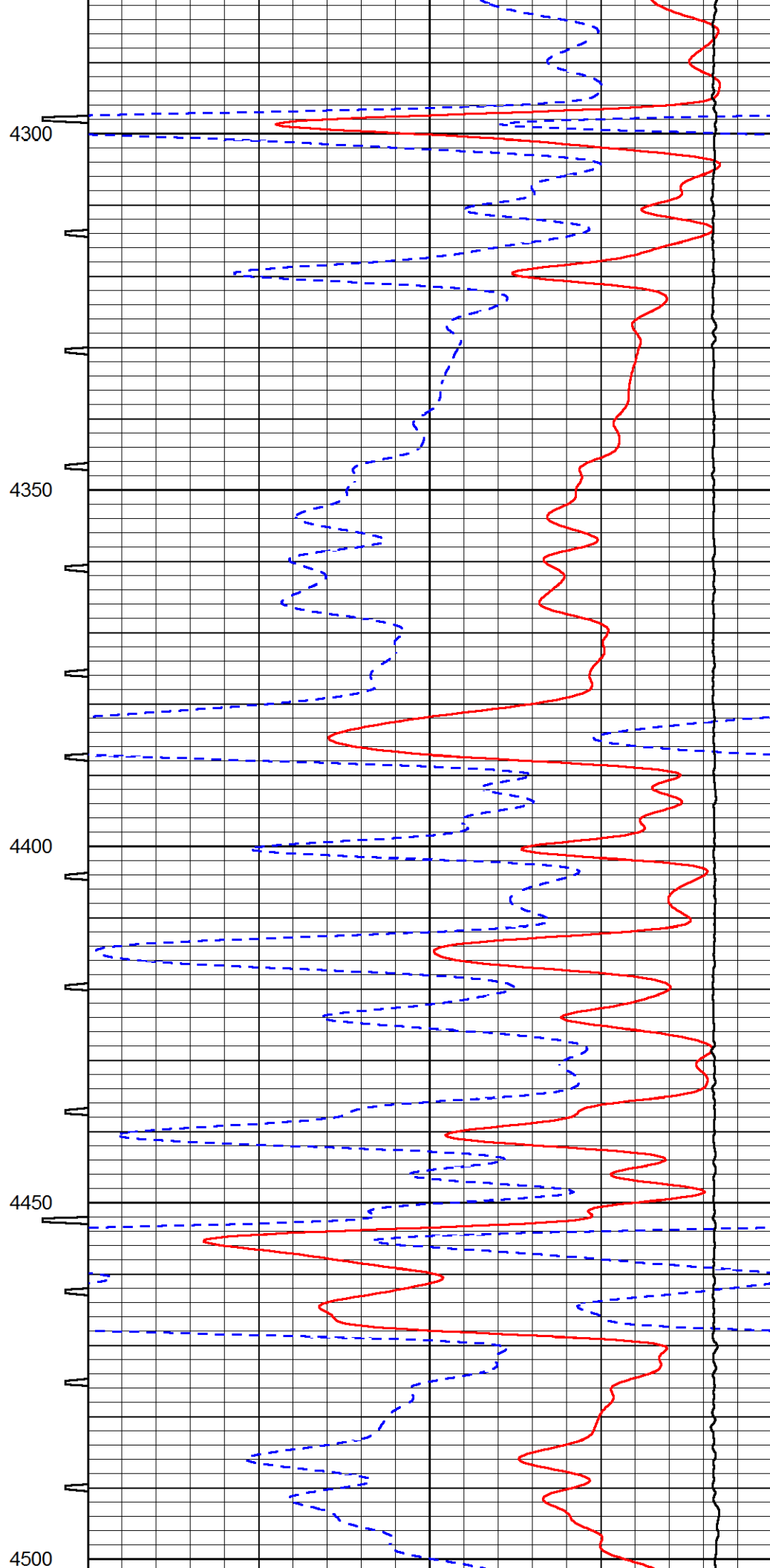
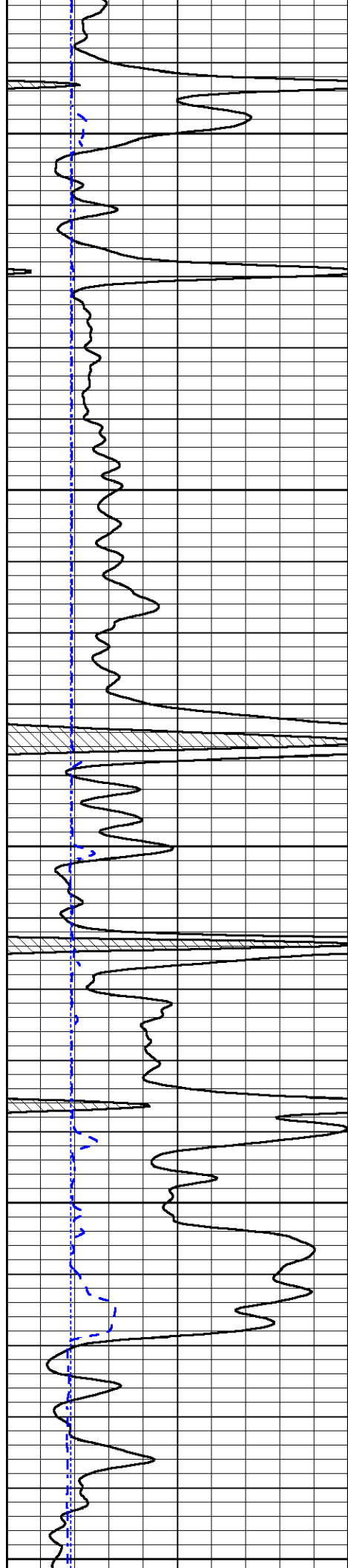


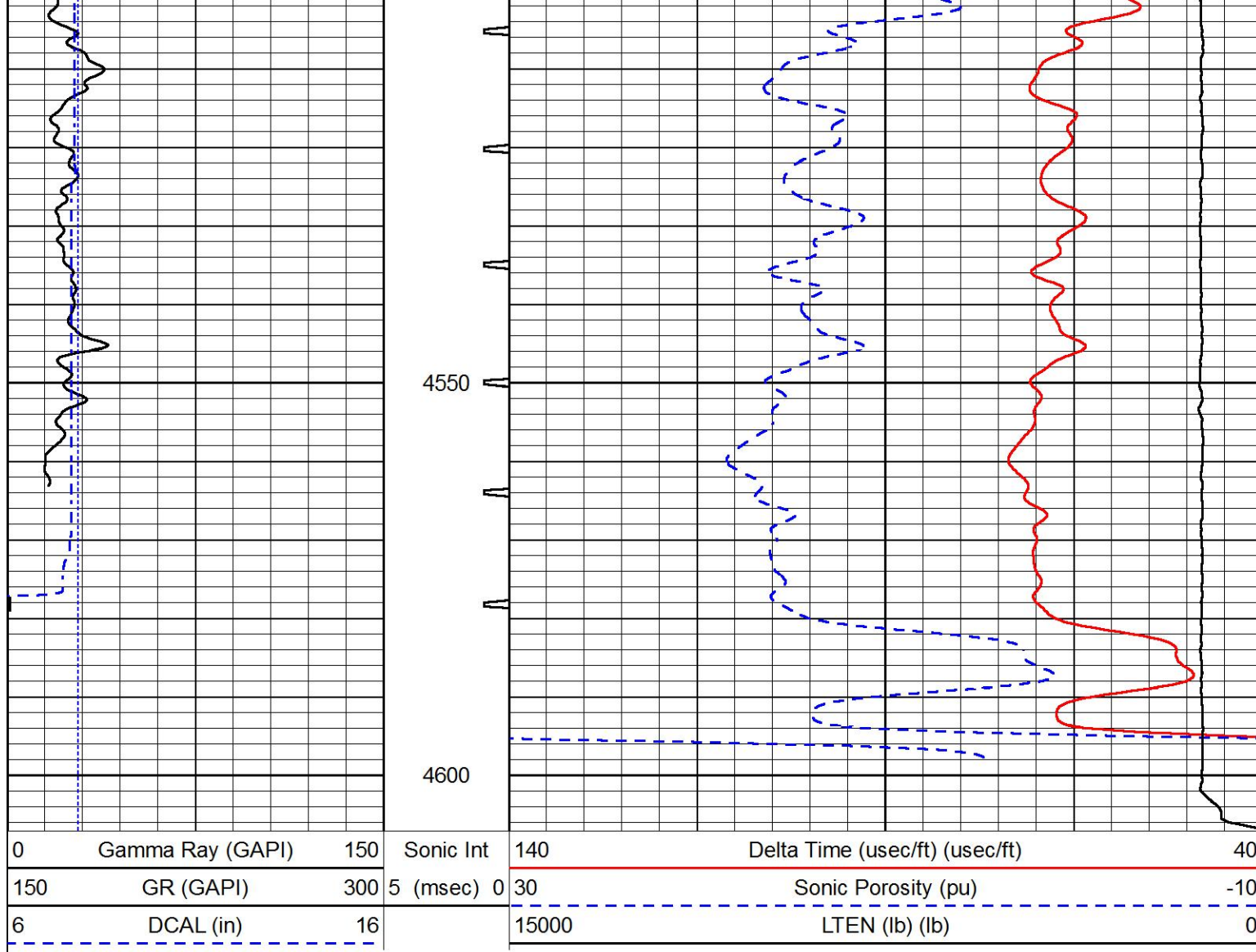










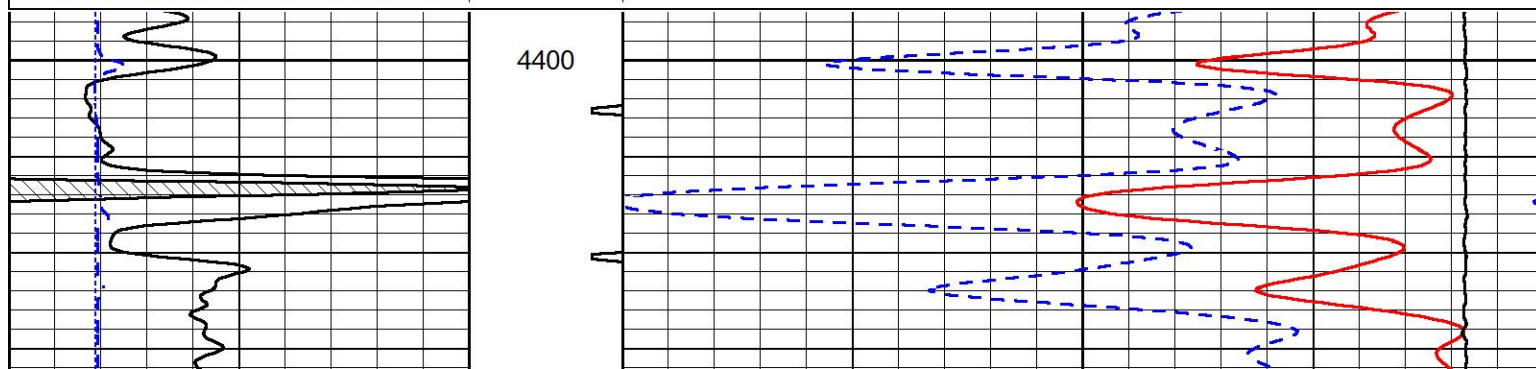
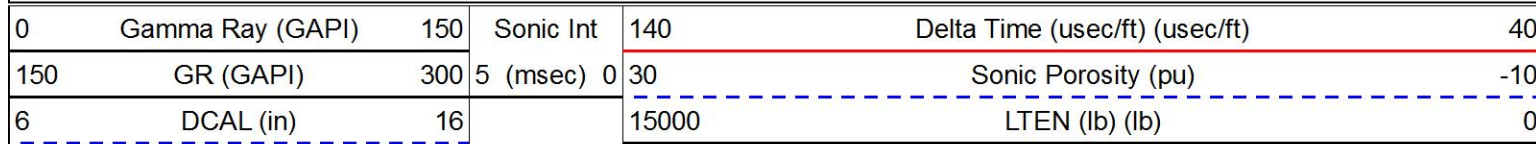


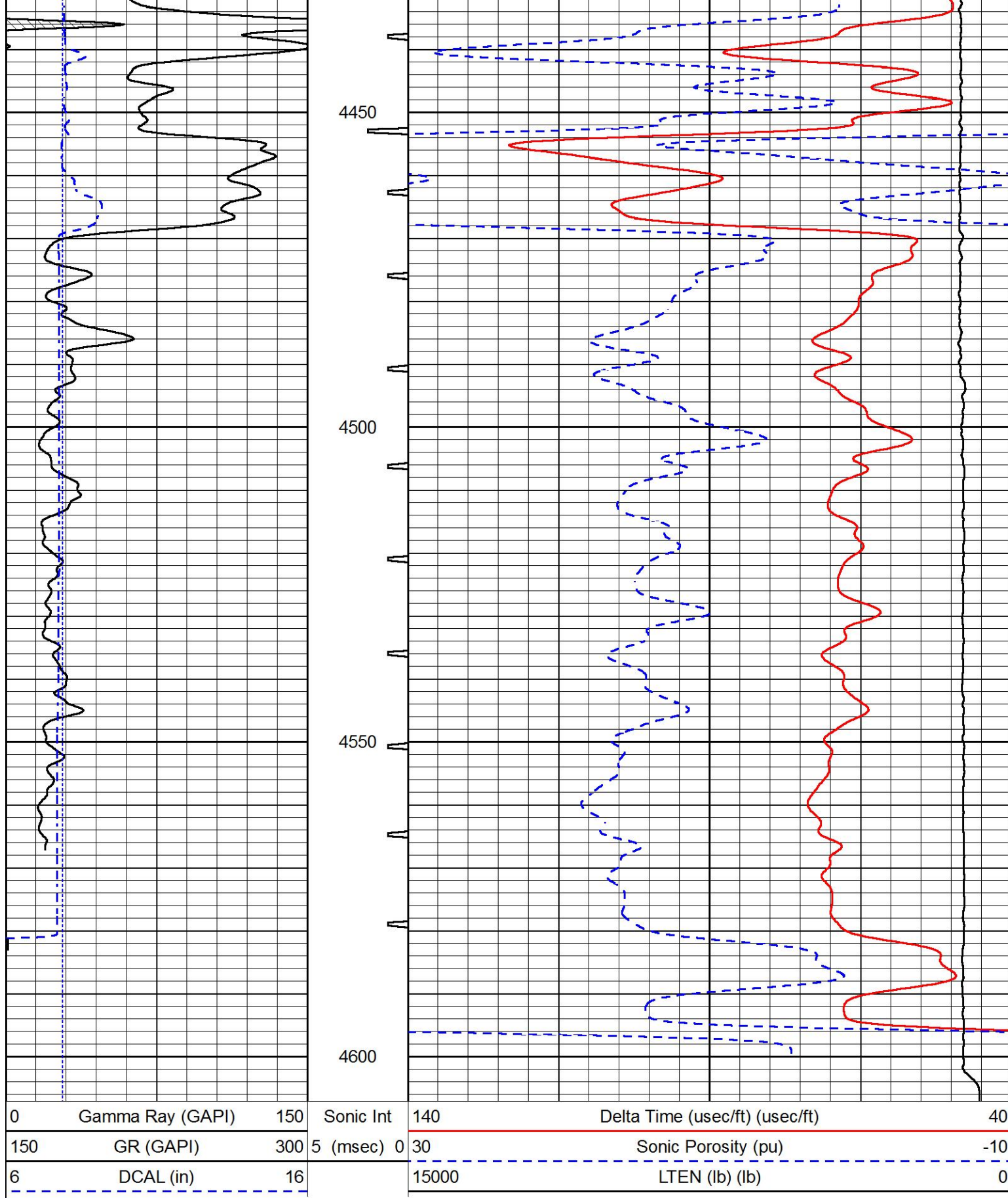
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File ritchie_#3 frusher 9d.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format sonic
 Dataset Creation Sun Jun 13 09:40:58 2021
 Charted by Depth in Feet scaled 1:240





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