



**BOREHOLE COMPENSATED
SONIC LOG**

Company MURFIN DRILLING CO., INC.
Well BANISTER A #2-22
Field WILDCAT
County CHEYENNE
State KANSAS

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Field WILDCAT
County CHEYENNE State KANSAS

Location: API #: 15-023-21483-00-00
2310 FSL & 1320 FWL
SEC 22 TWP 2S RGE 37W

Other Services
CDL/CNL
DIL/MEL
Elevation
K.B. 3414'
D.F. N/A
G.L. 3414'

Date	5/20/2018
Run Number	TWO
Type Log	BHCS
Depth Driller	4934'
Depth Logger	4934'
Bottom Logged Interval	4913'
Top Logged Interval	4000'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	800
Density	9.2
Level	FULL
Max. Rec. Temp. F	127
Operating Rig Time	5 HOURS
Equipment -- Location	108 HAYS
Recorded By	IAN MABB
Witnessed By	SAMAN SHARIFAIE

Run No.	Bit	Borehole Record		Casing Record	
		From	To	From	To
ONE	12.25"	0'	384'	8.625"	23#
TWO	7.875"	384'	TD		

<<< Fold Here >>>

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.

BIRD CITY, KS.
4 MILES EAST TO RD 32,
8 MILES NORTH, EAST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: IAN MABB
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

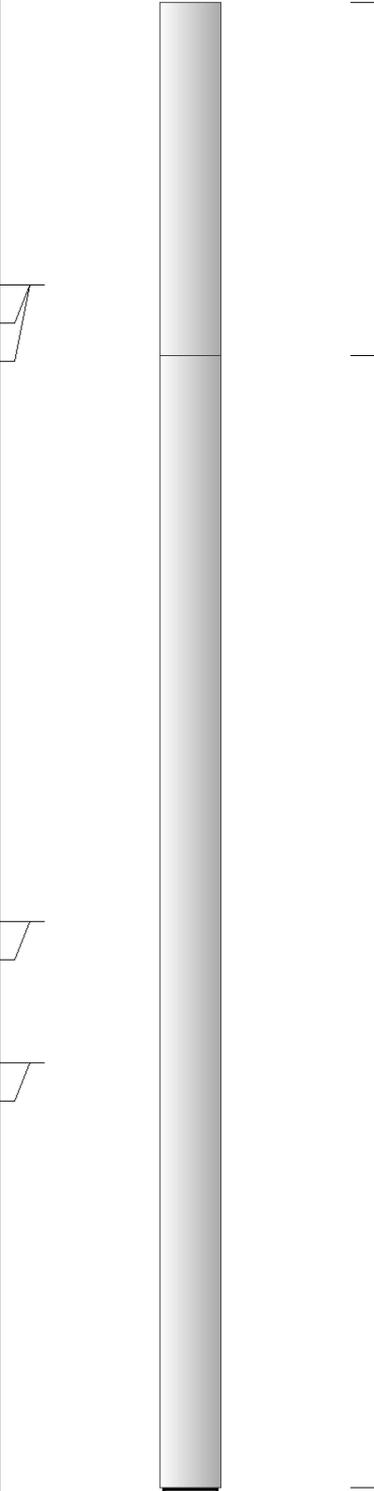
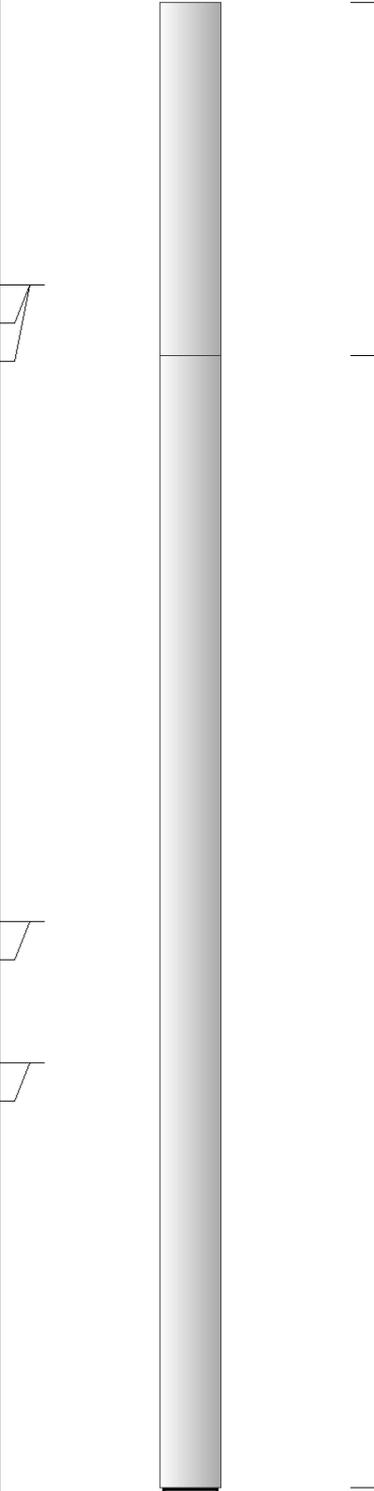
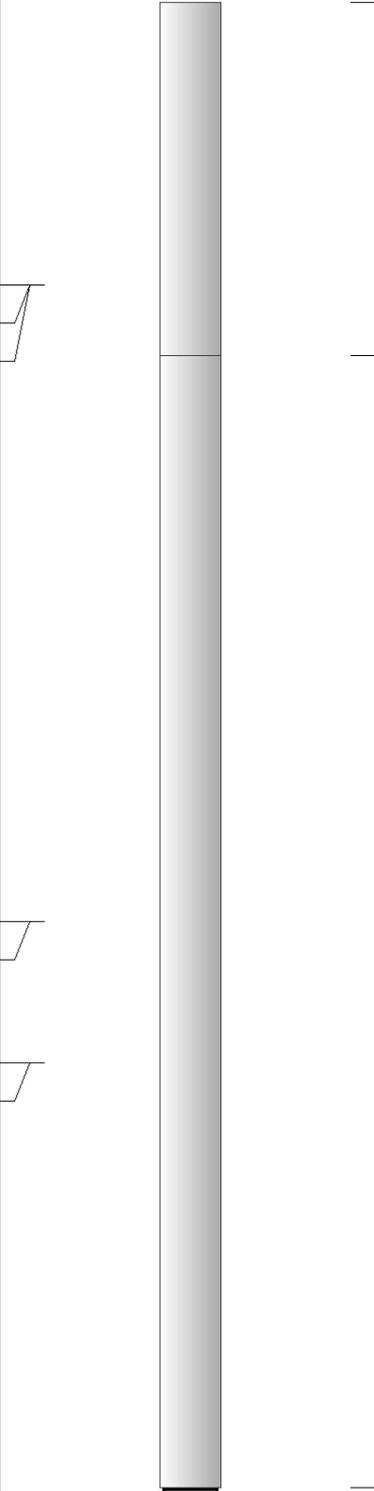
Primary Witness: SAMAN SHARIFAIE
Secondary Witness:
Secondary Witness:
Secondary Witness:

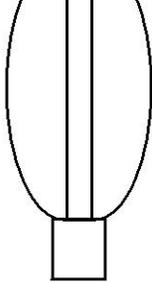
Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_banister_a_2_22.db
 Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	127	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	9	-7	-415	60	Off	4934

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	22.50 22.50 22.50		ML-Armadillo (Armadillo-1) Pengo micro log tool mandrel with Armadillo Electronics	5.00	3.50	100.00
WVF4 WVF1	13.50 13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	11.50 11.50					



CENT-PENGO

5.50

3.00

70.00

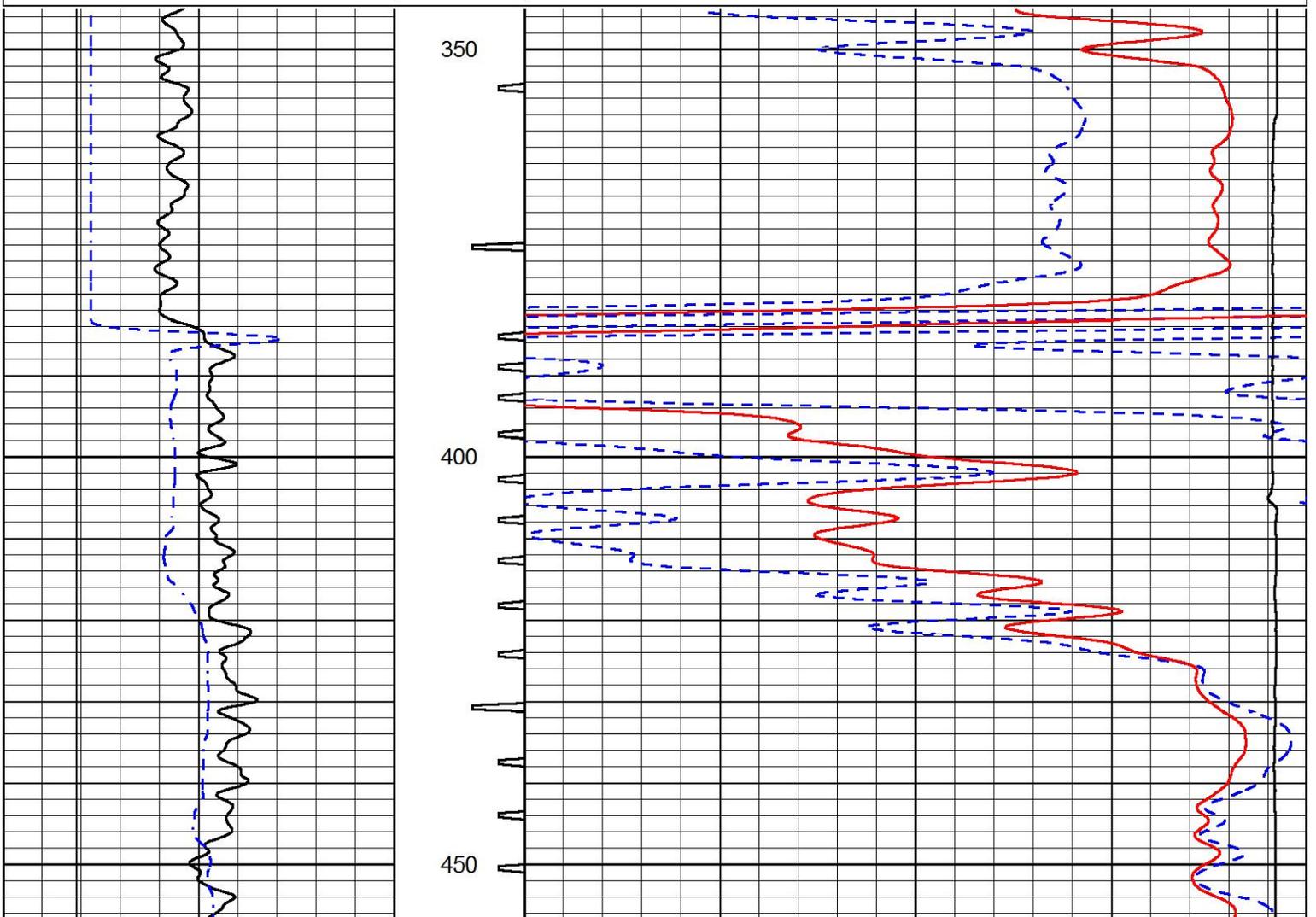
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 Total weight: 470.00 lb
 O.D.: 3.50 in

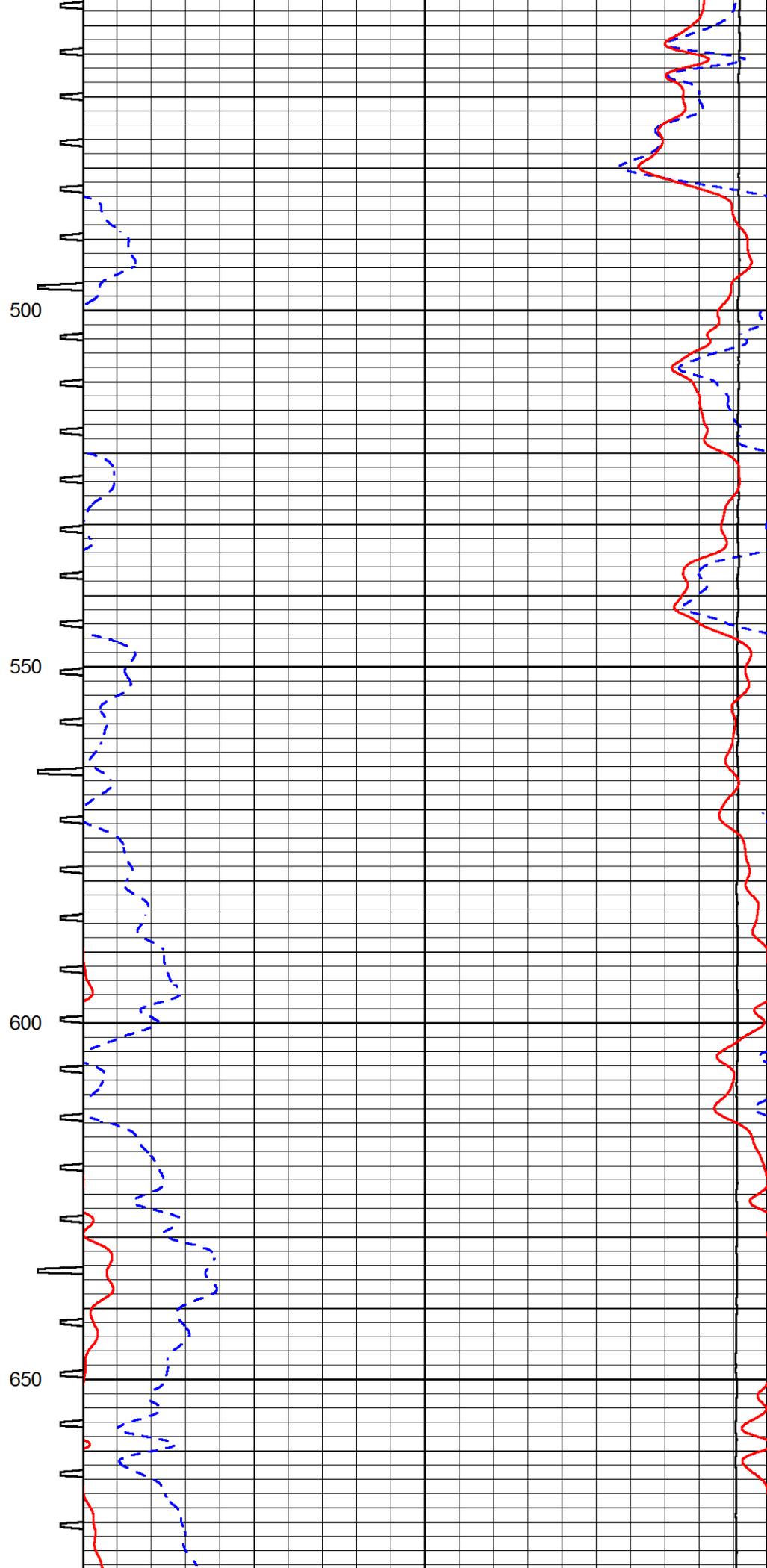
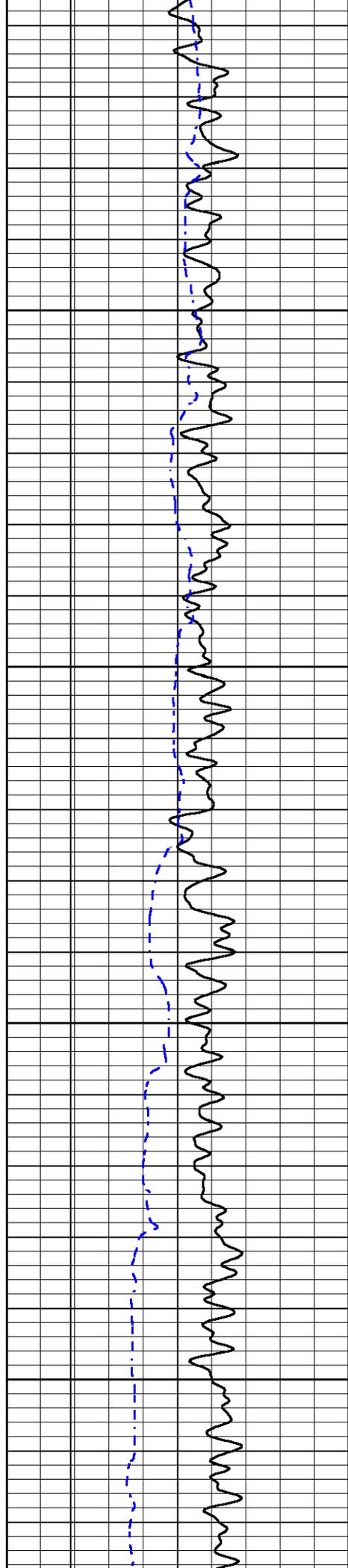


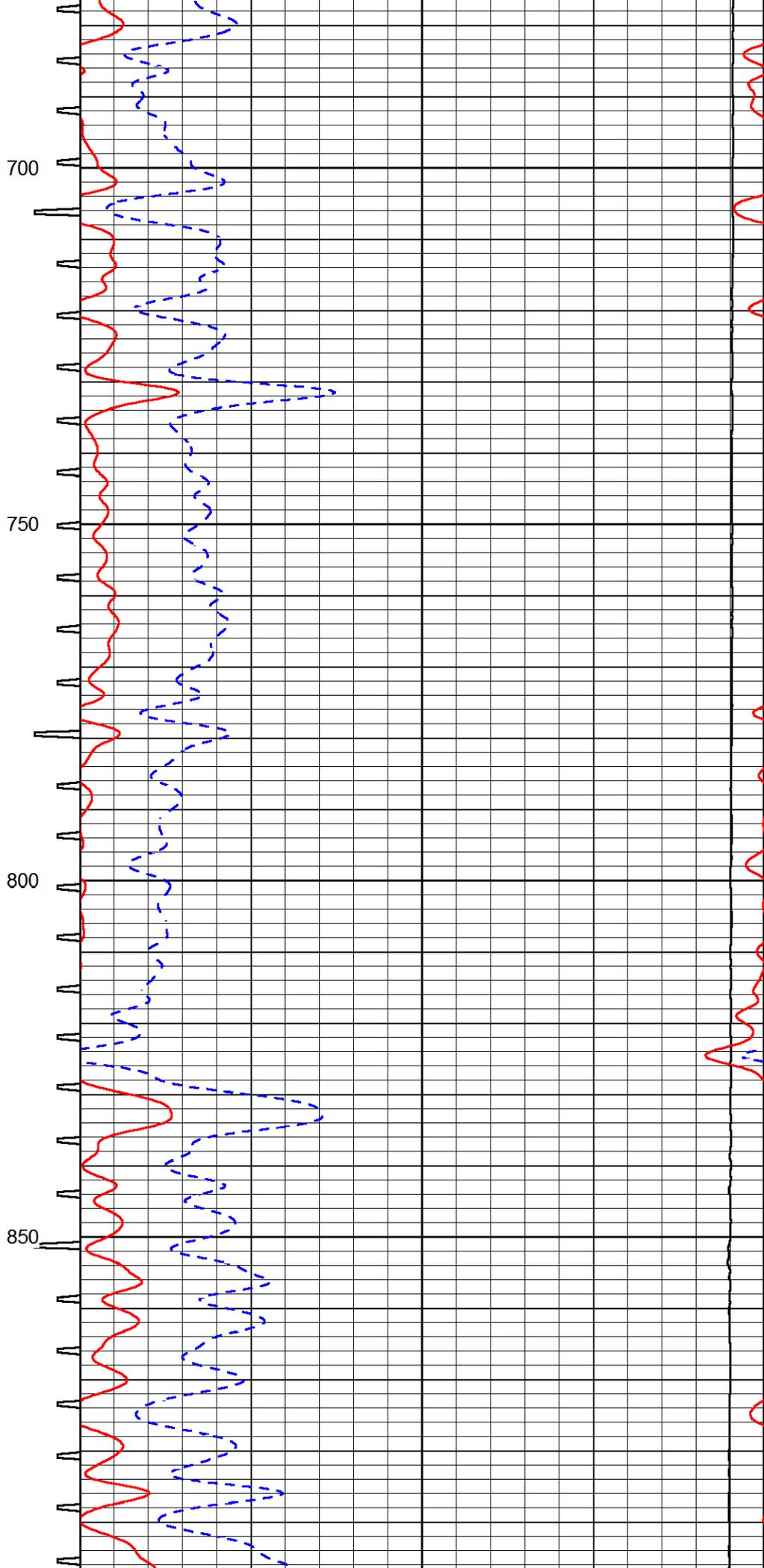
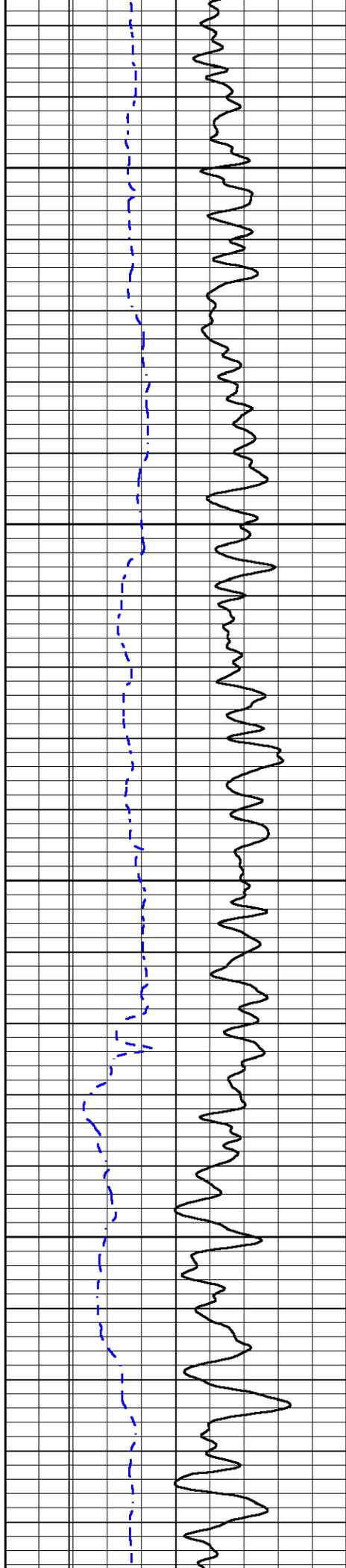
MAIN PASS

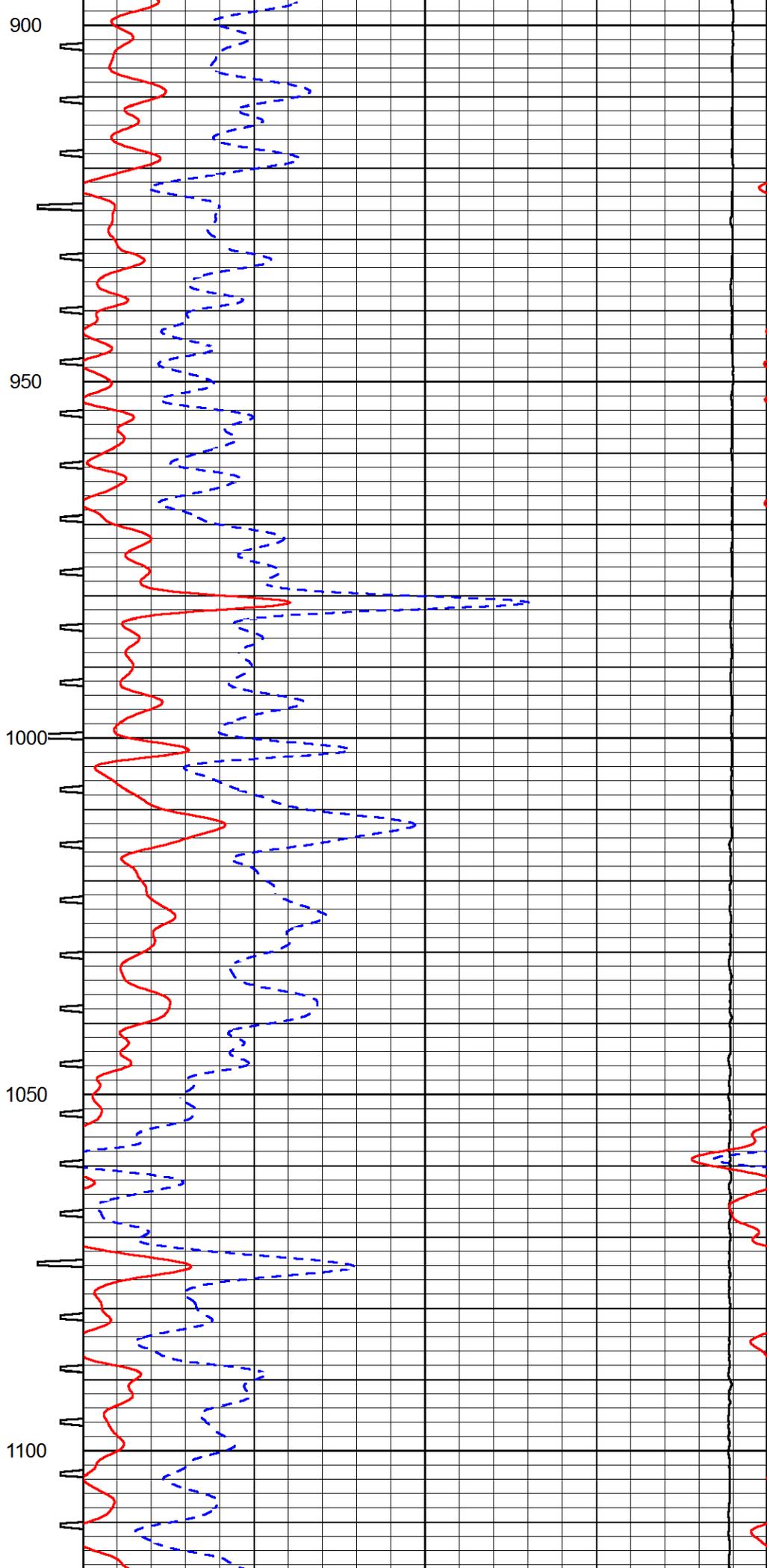
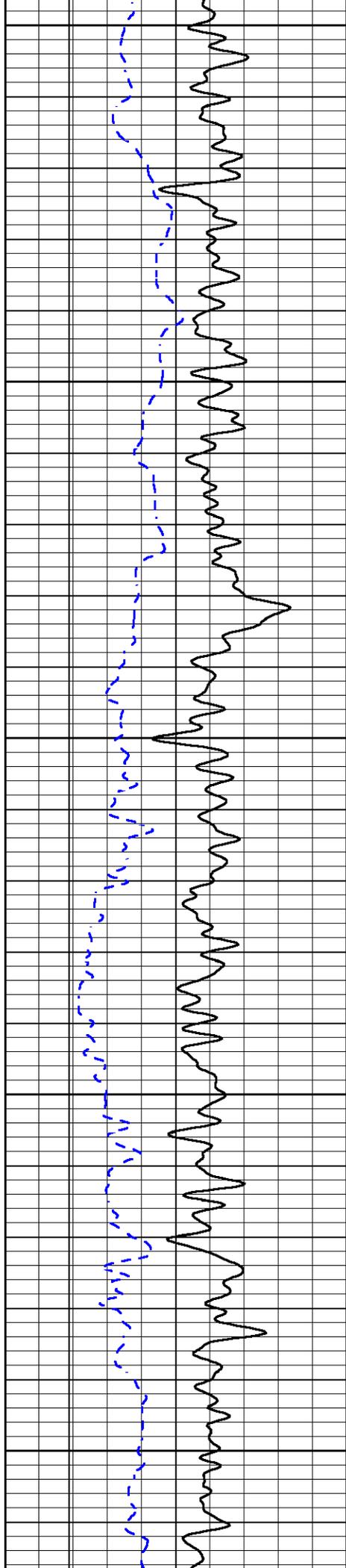
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 Dataset Creation Sun May 20 12:11:09 2018
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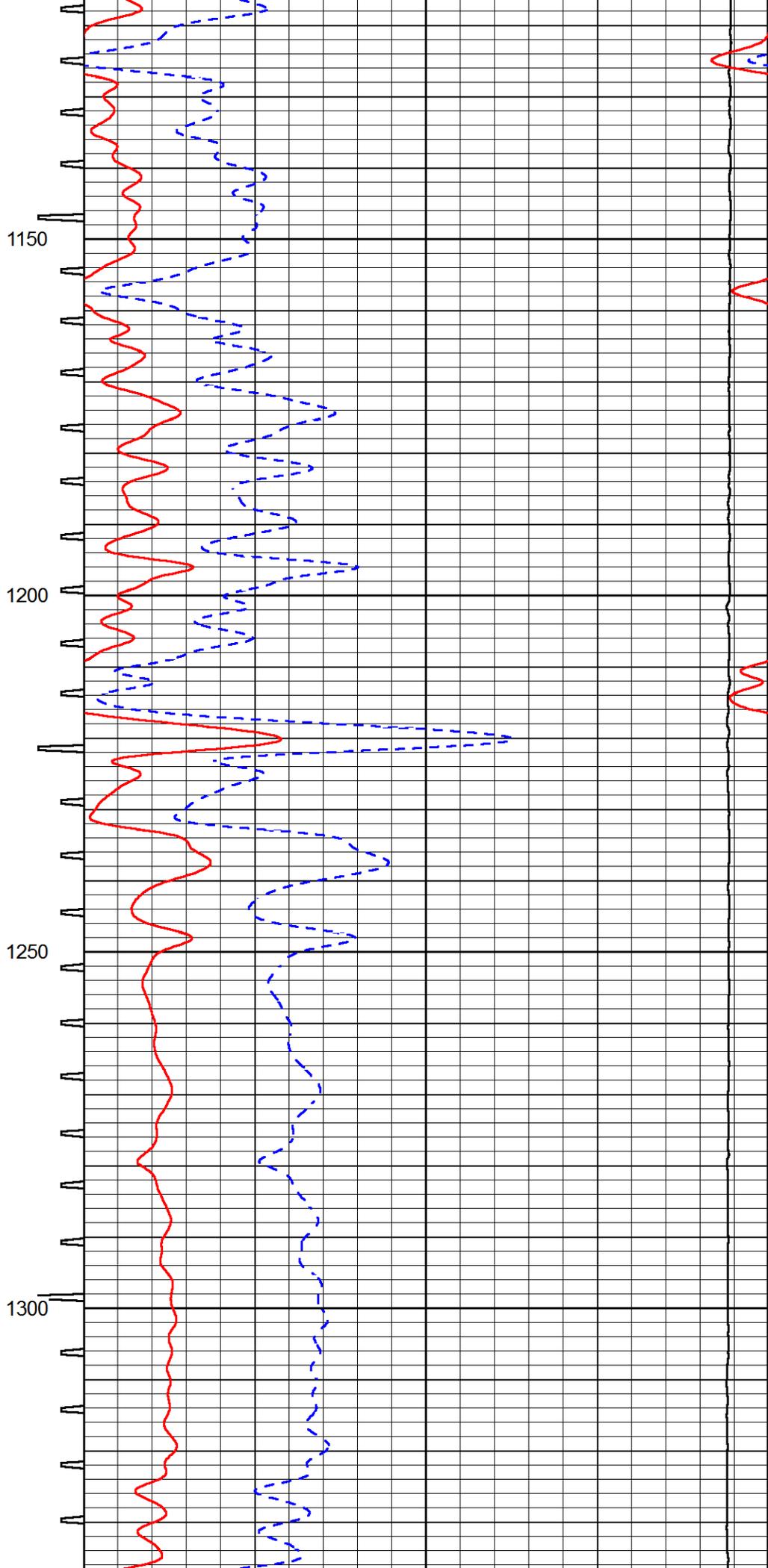
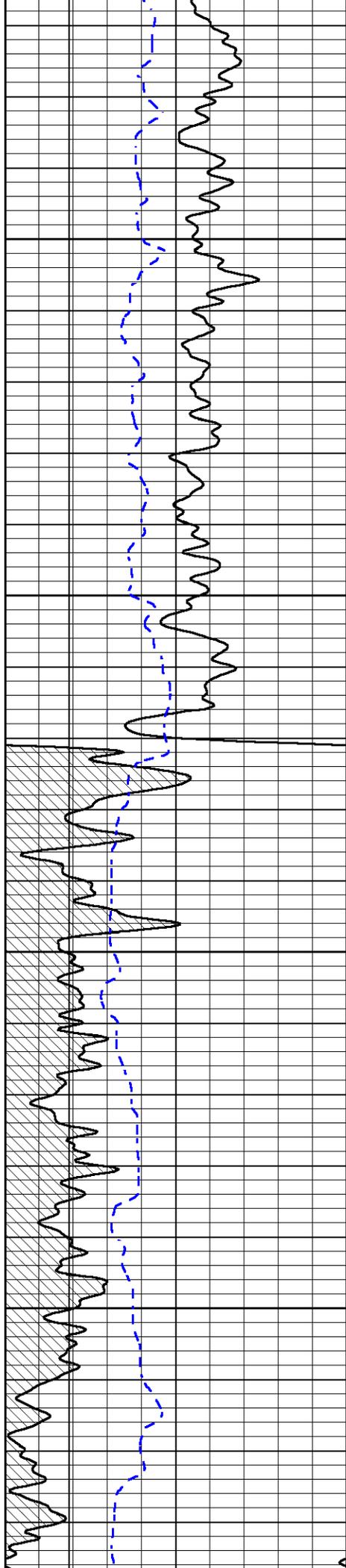
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6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

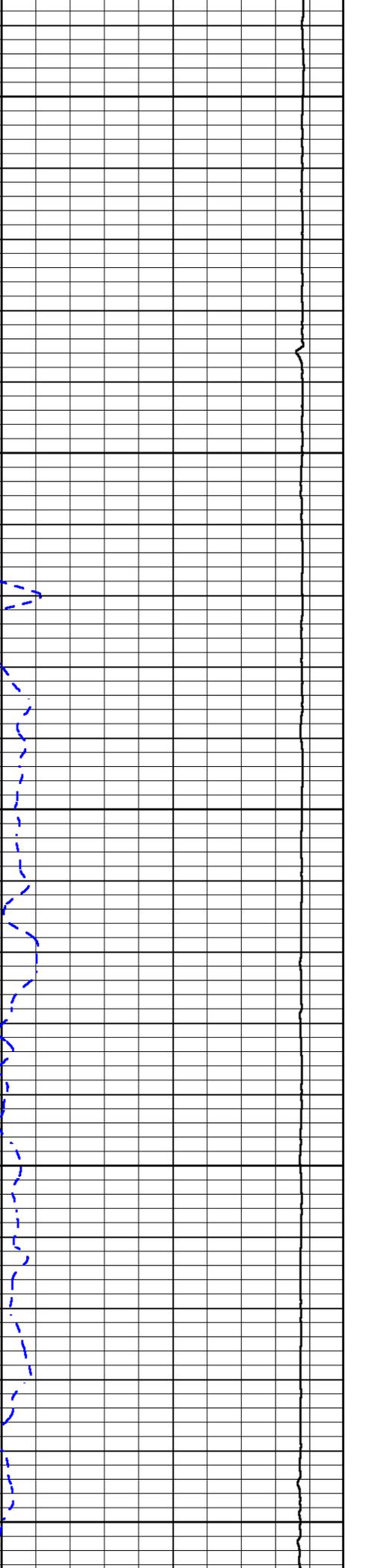
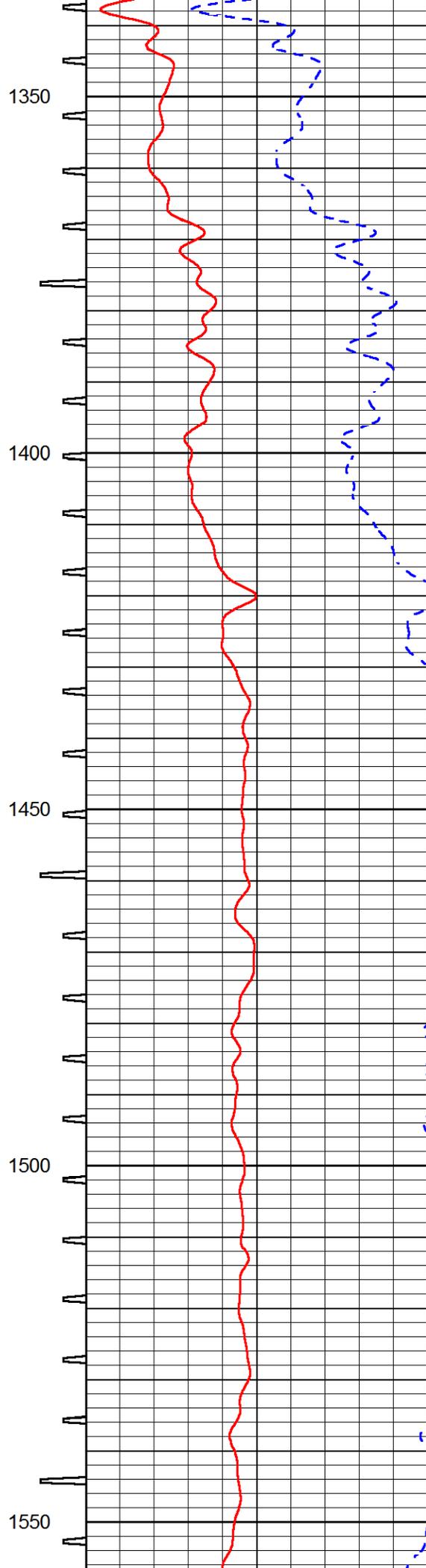
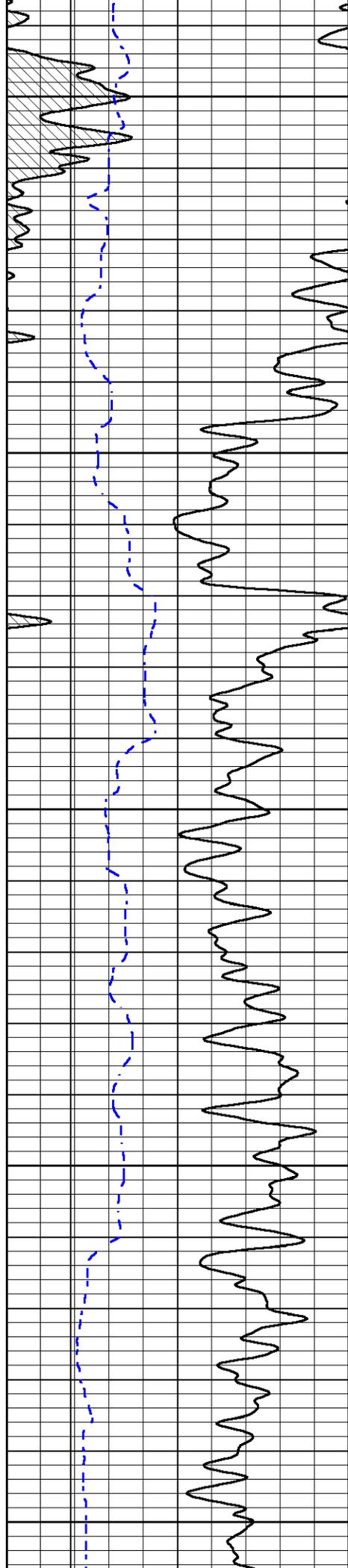


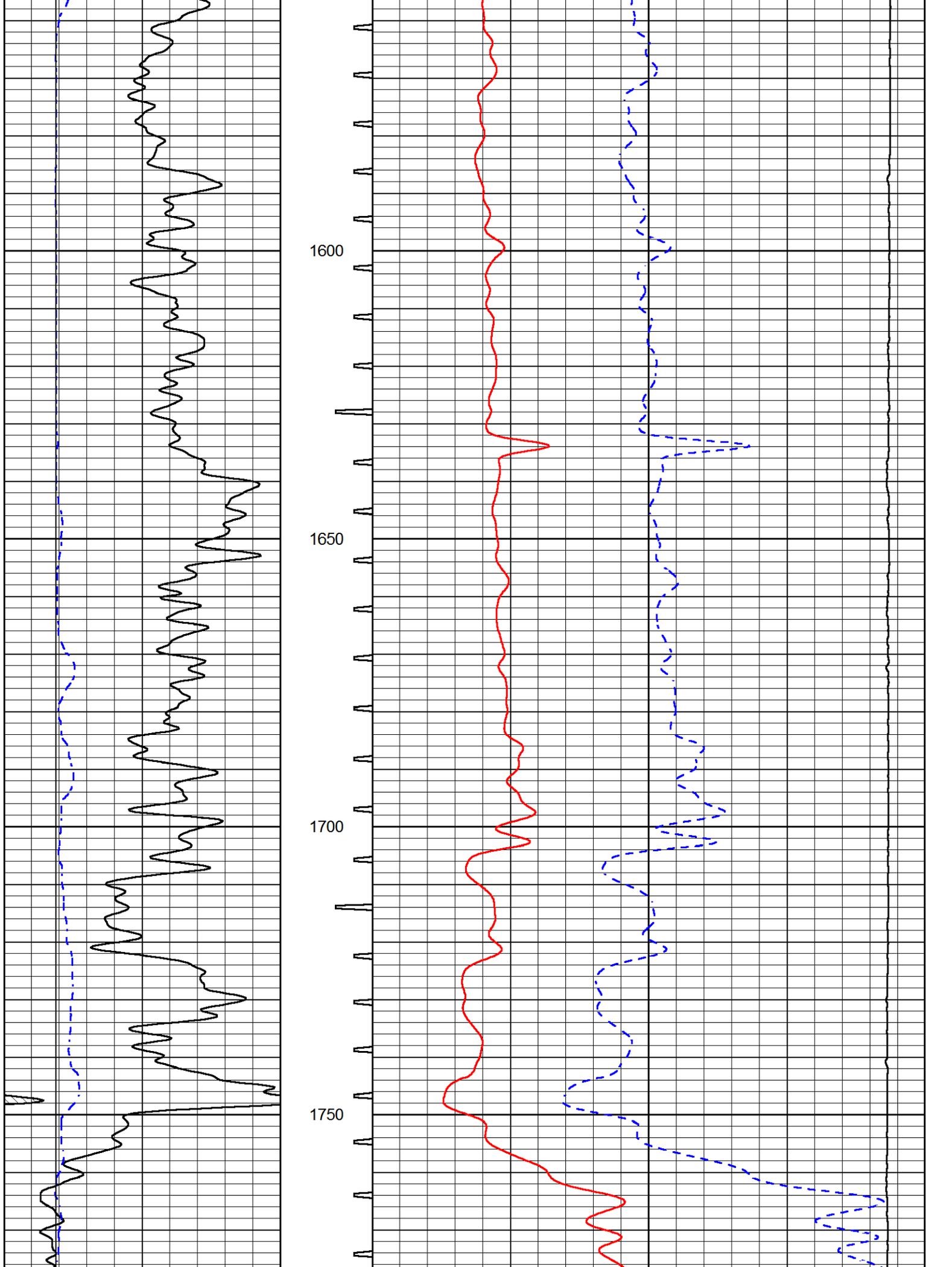


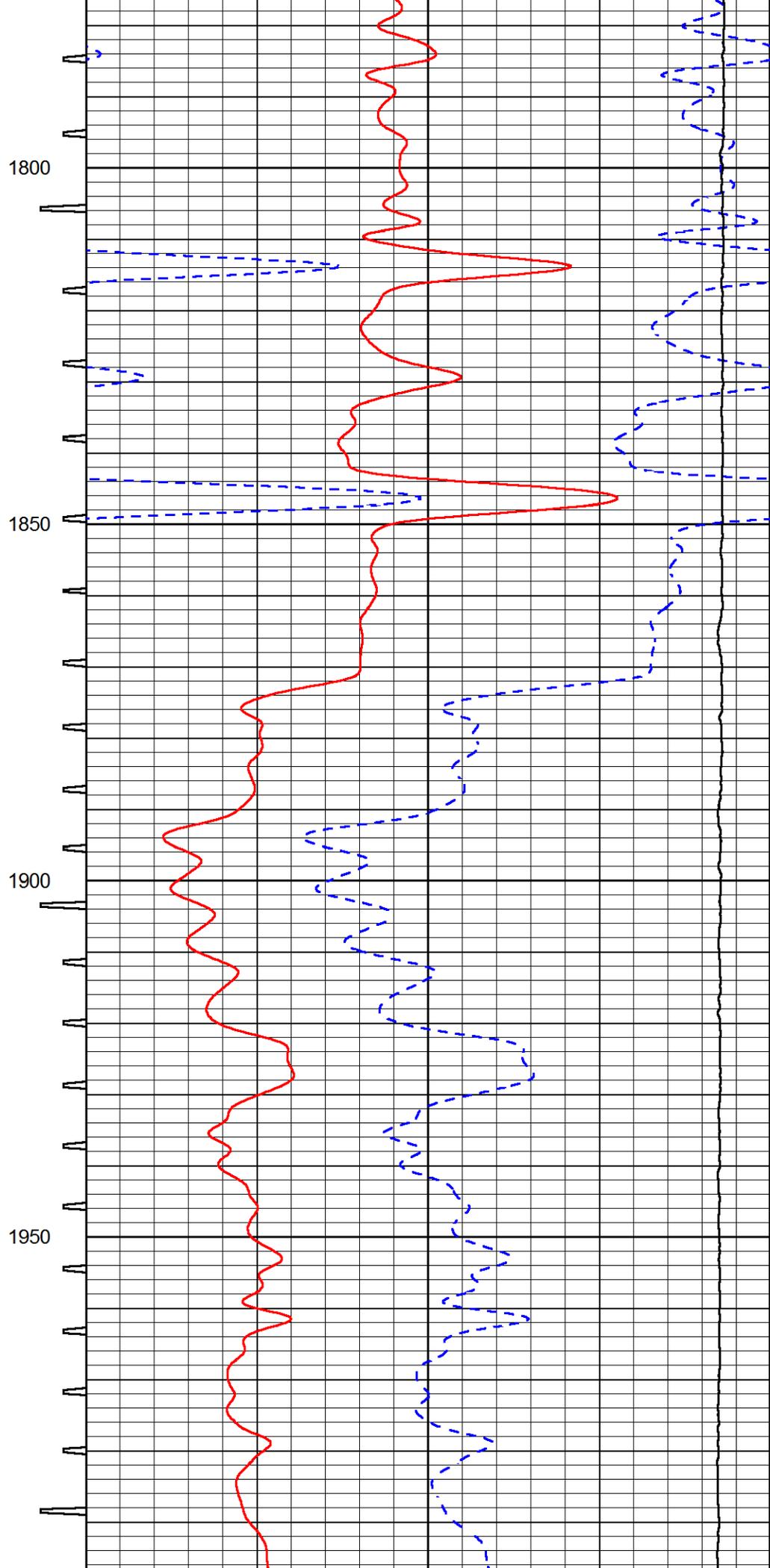
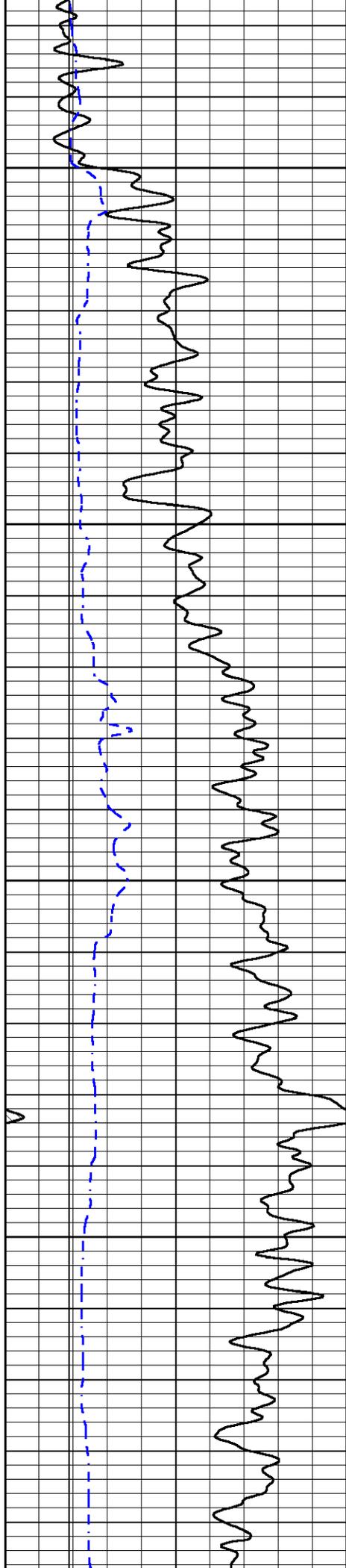


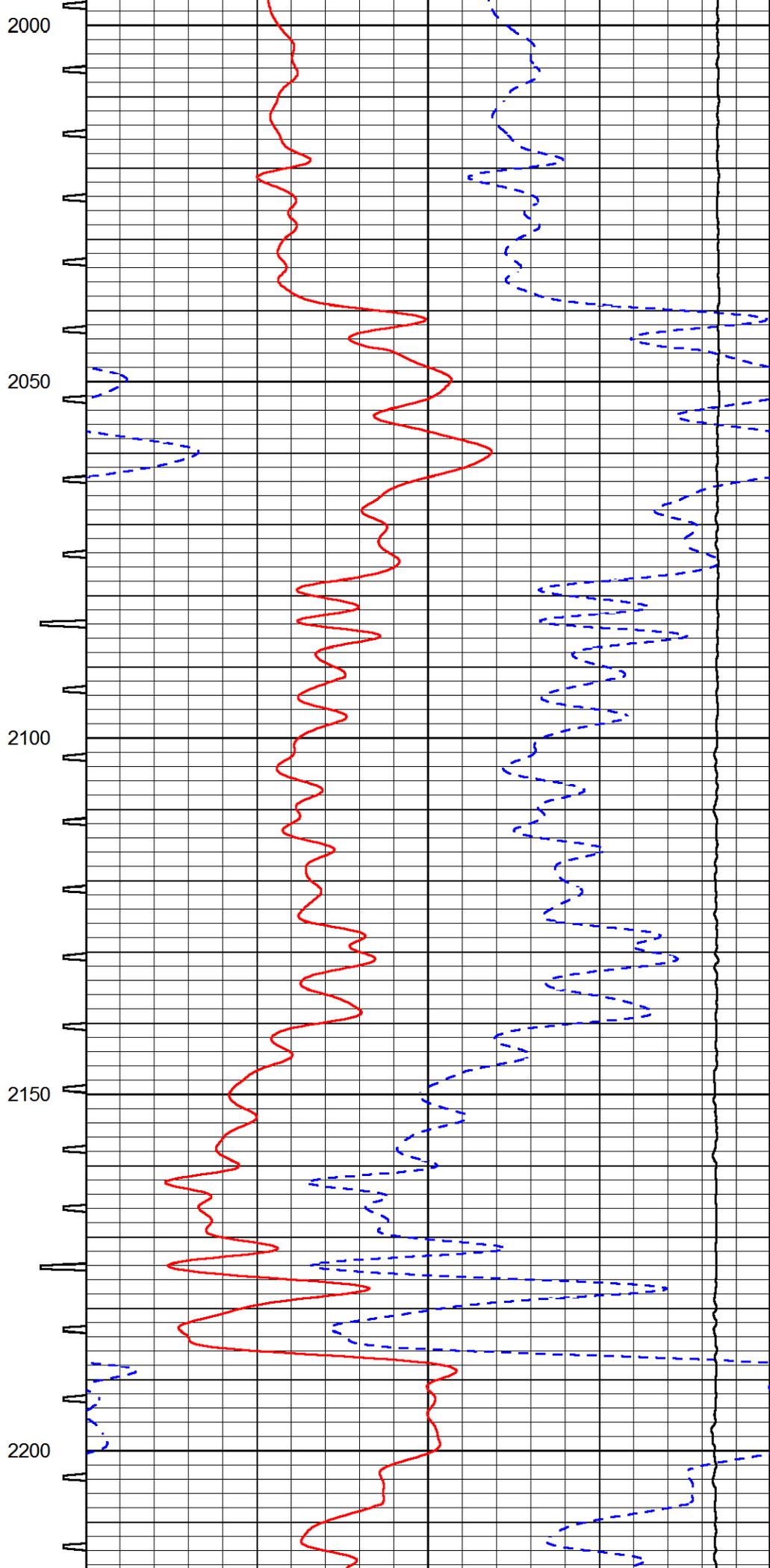
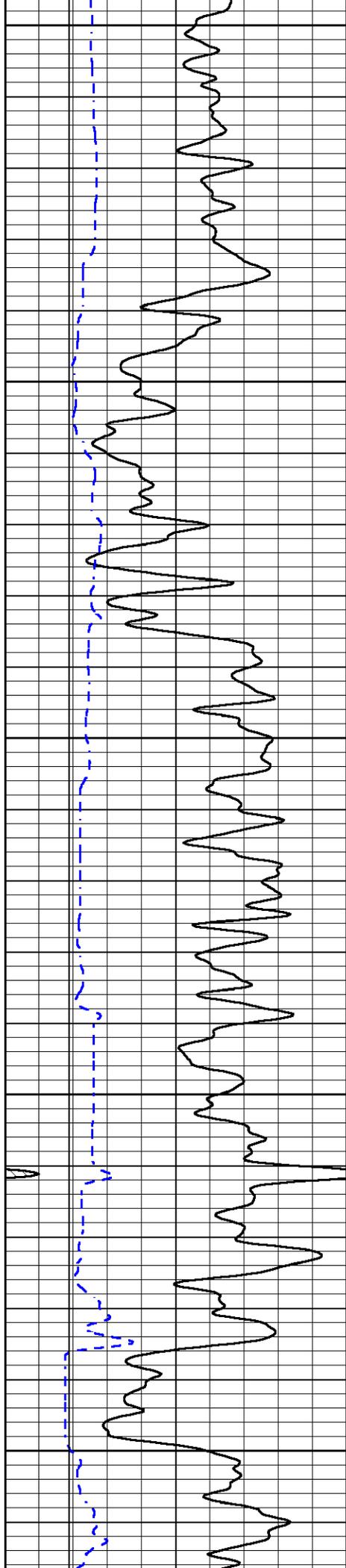


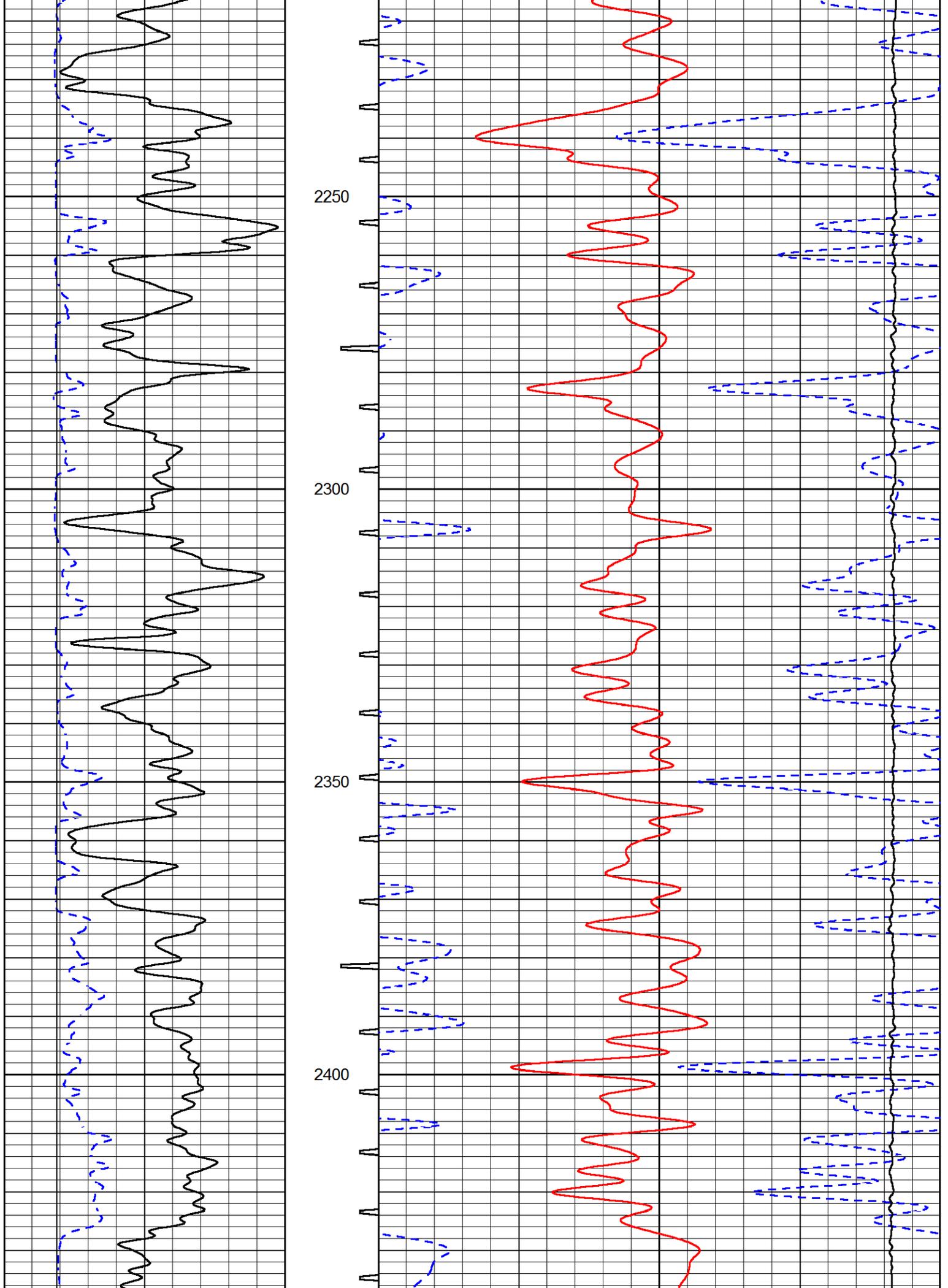


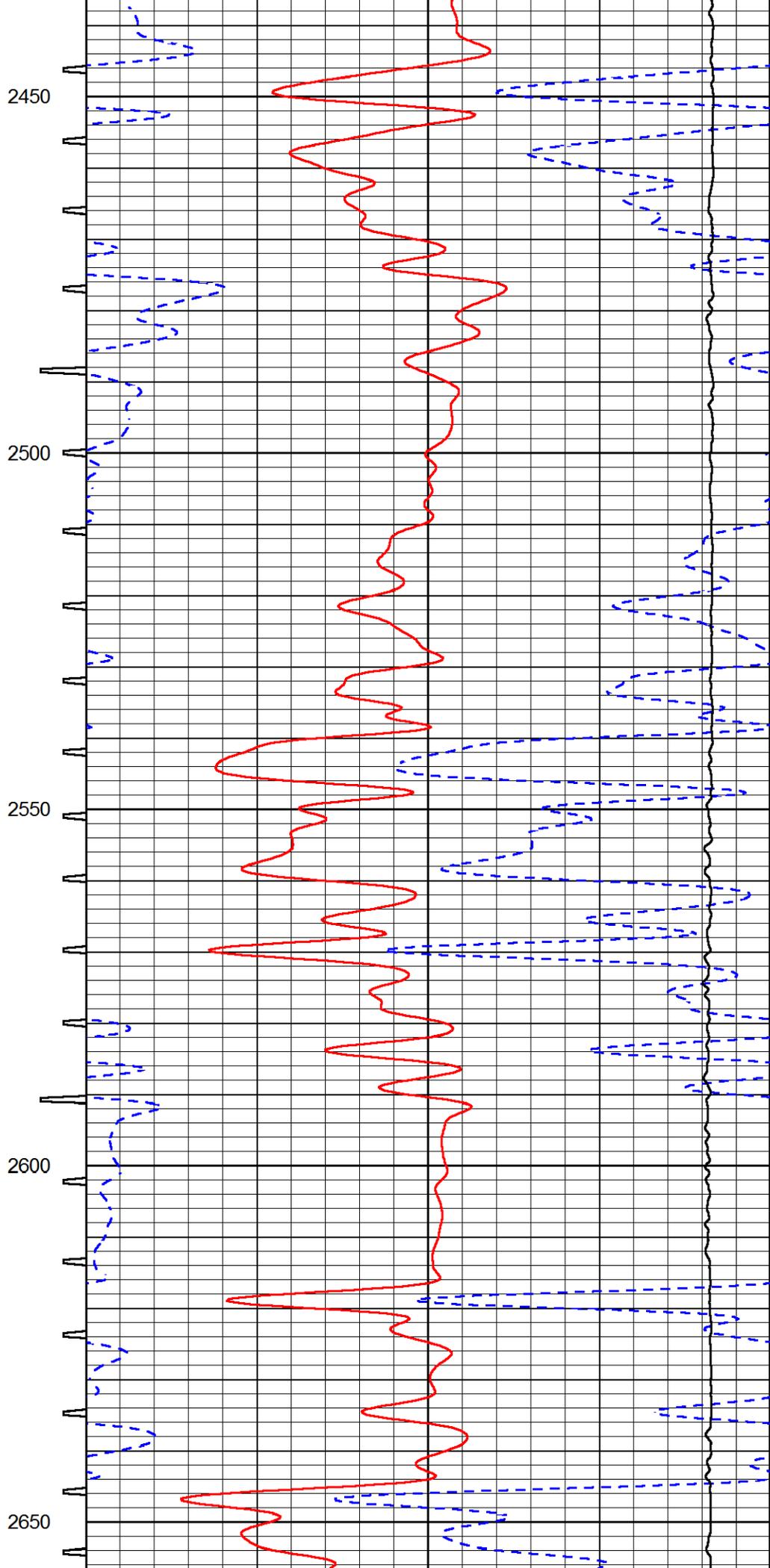
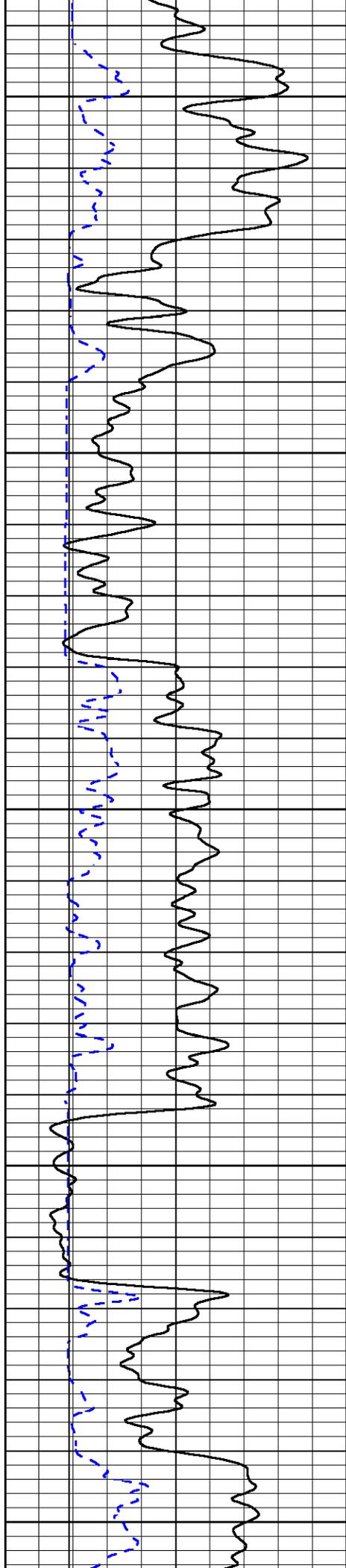


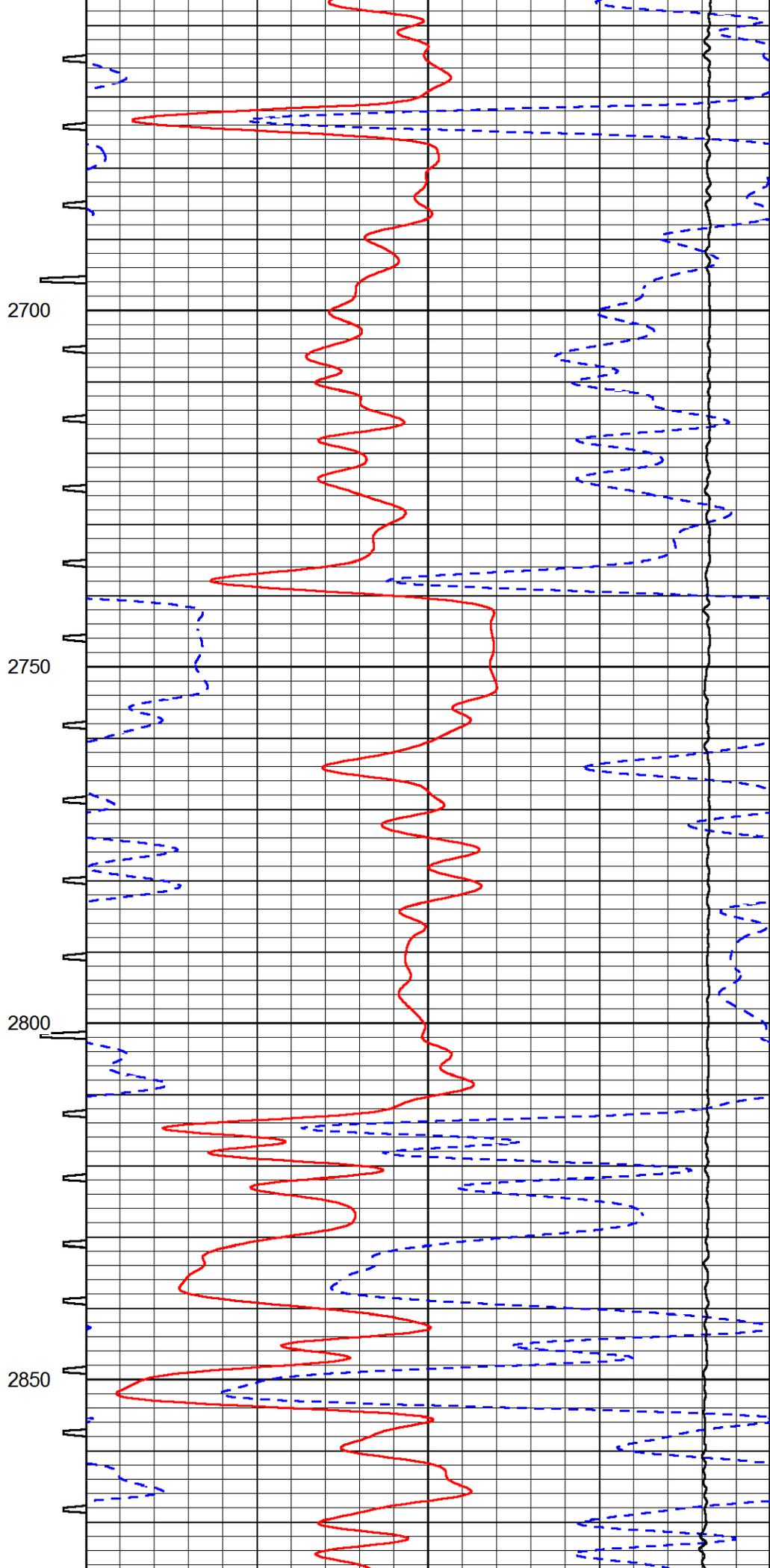
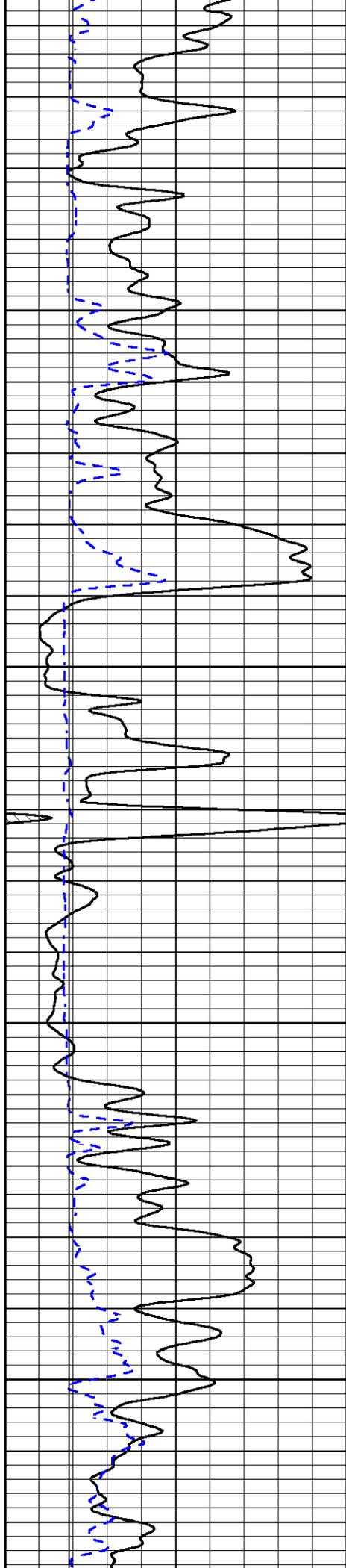


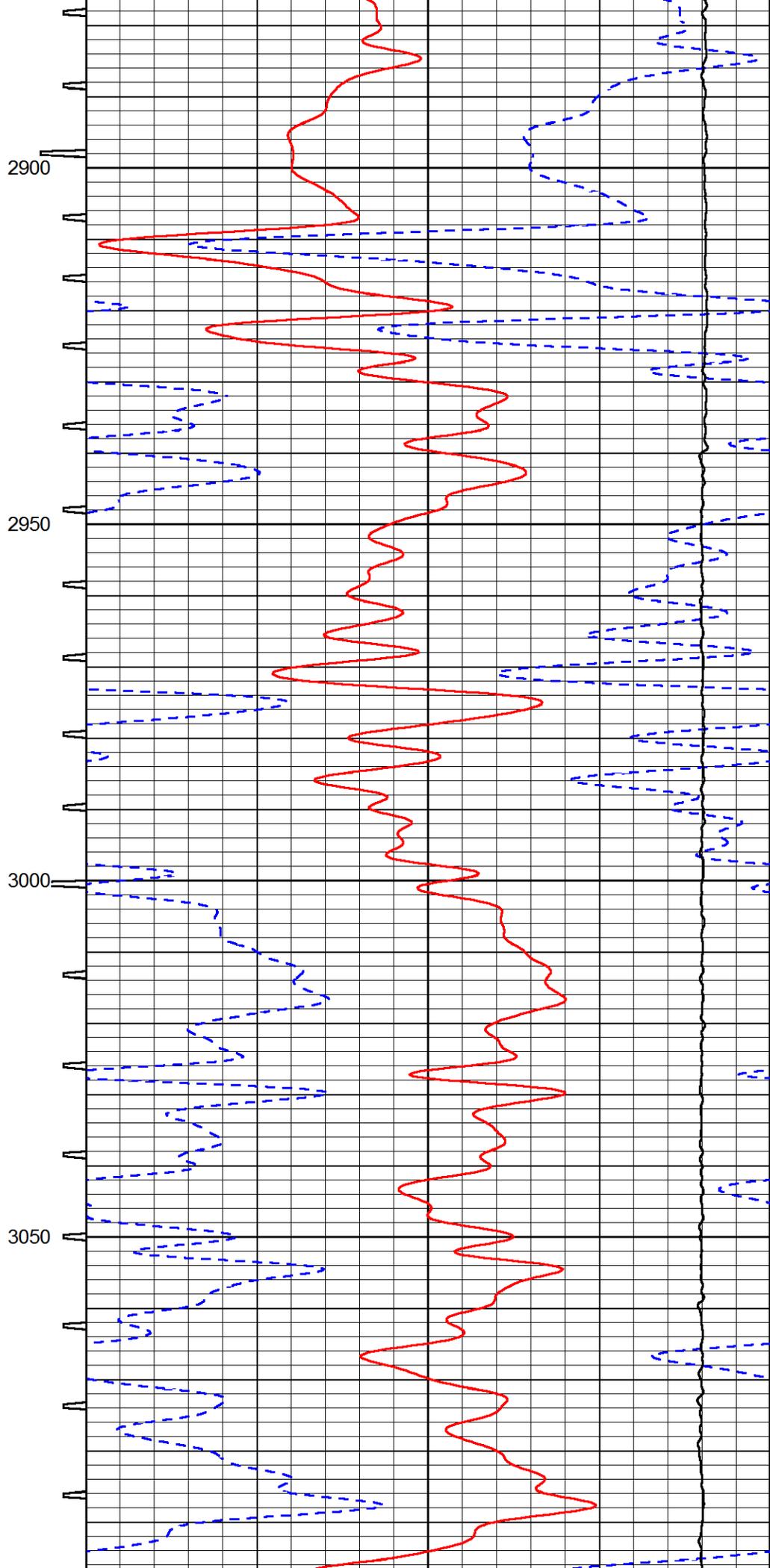
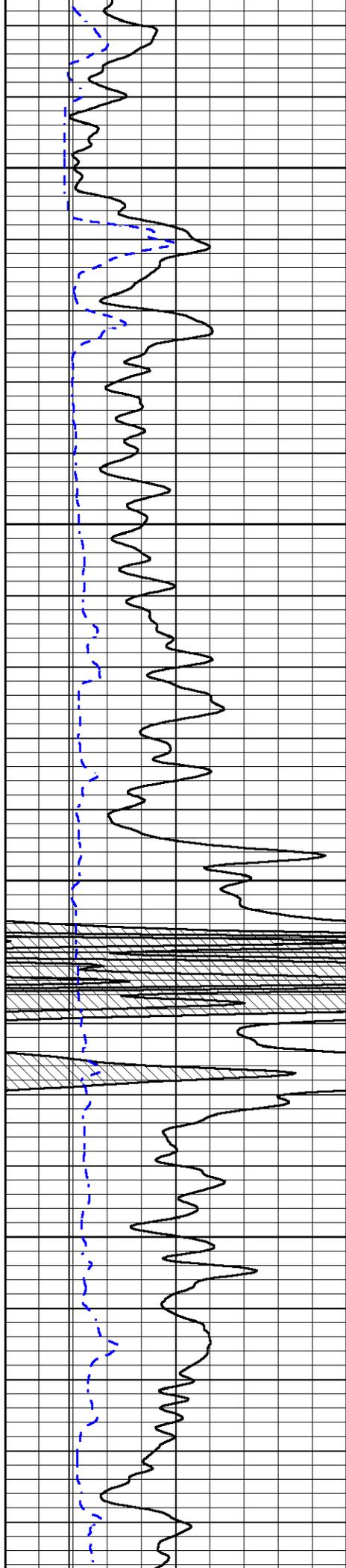


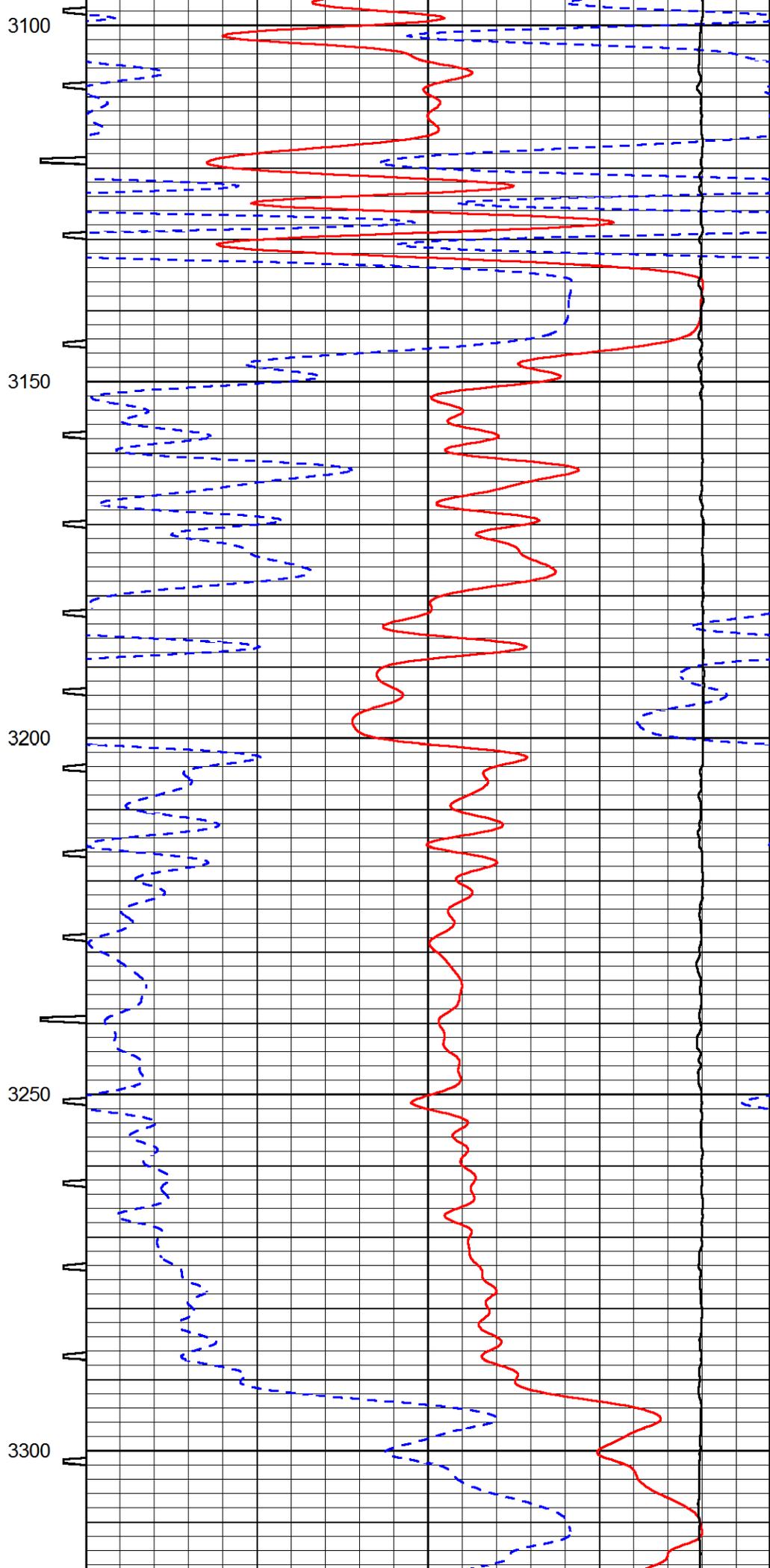
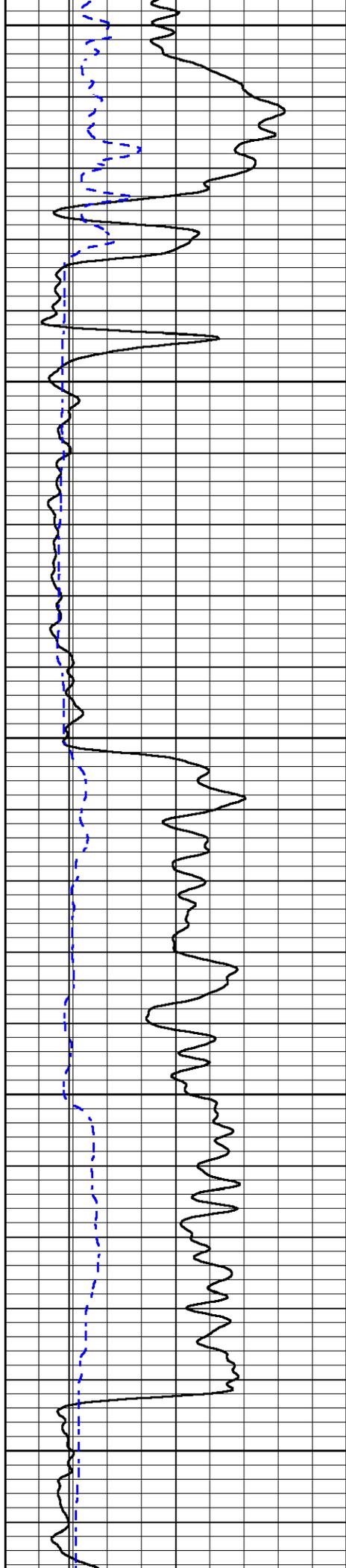


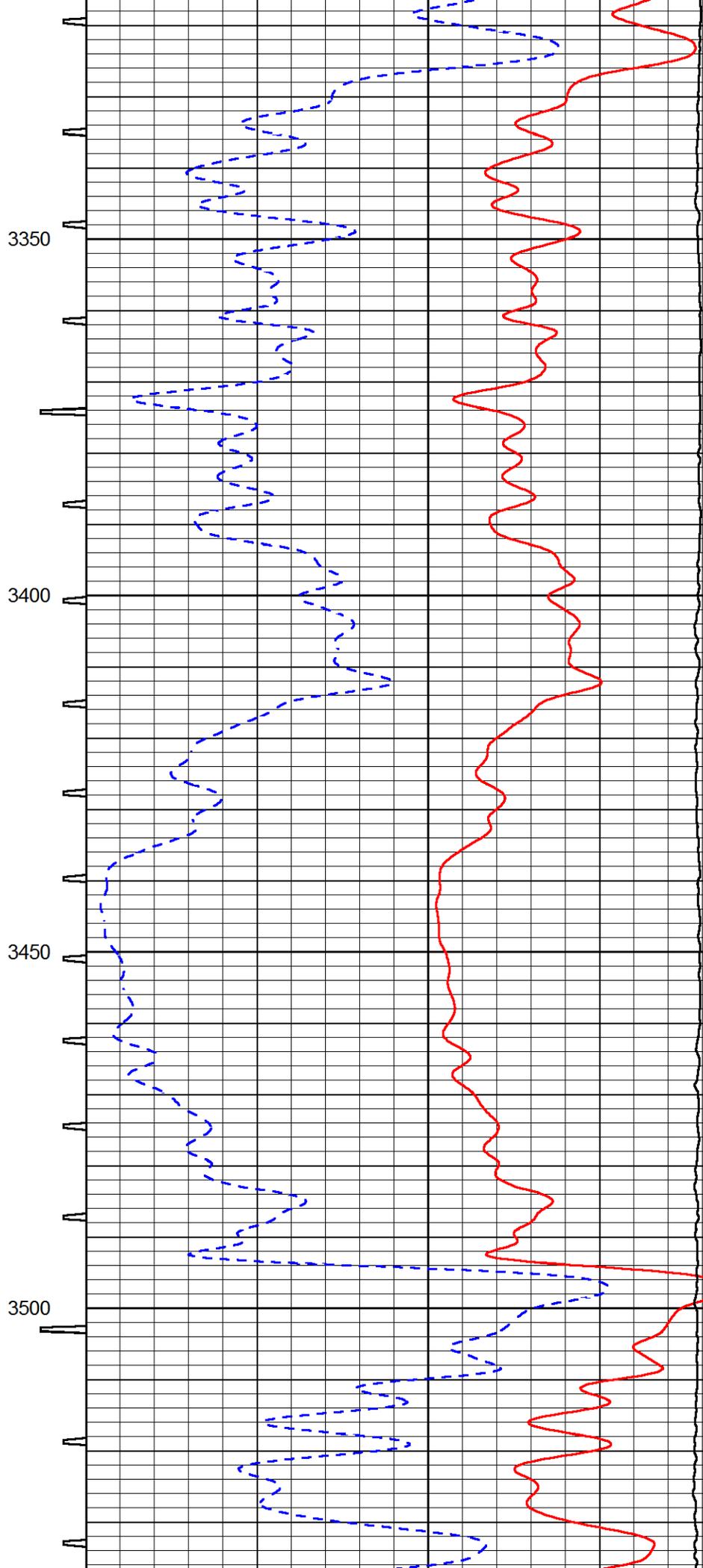
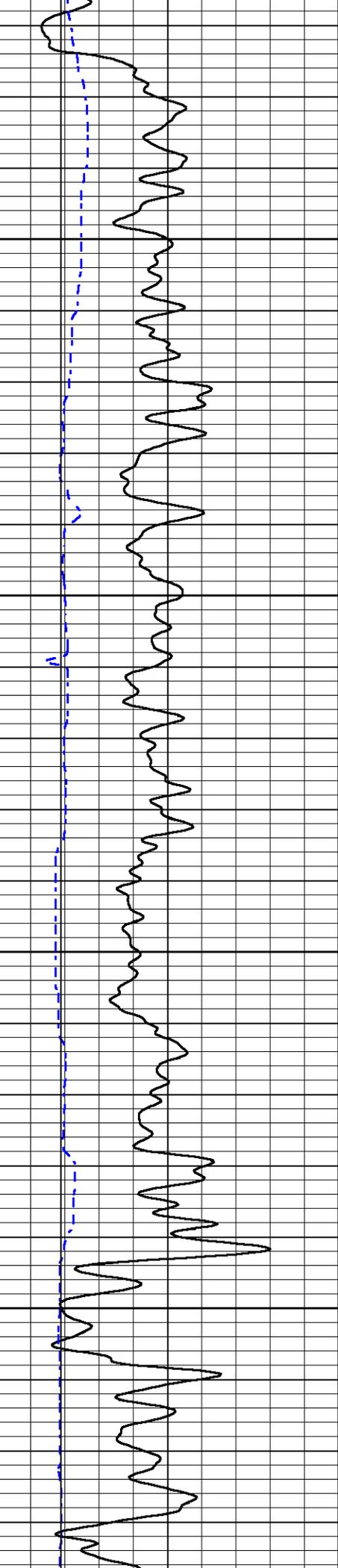


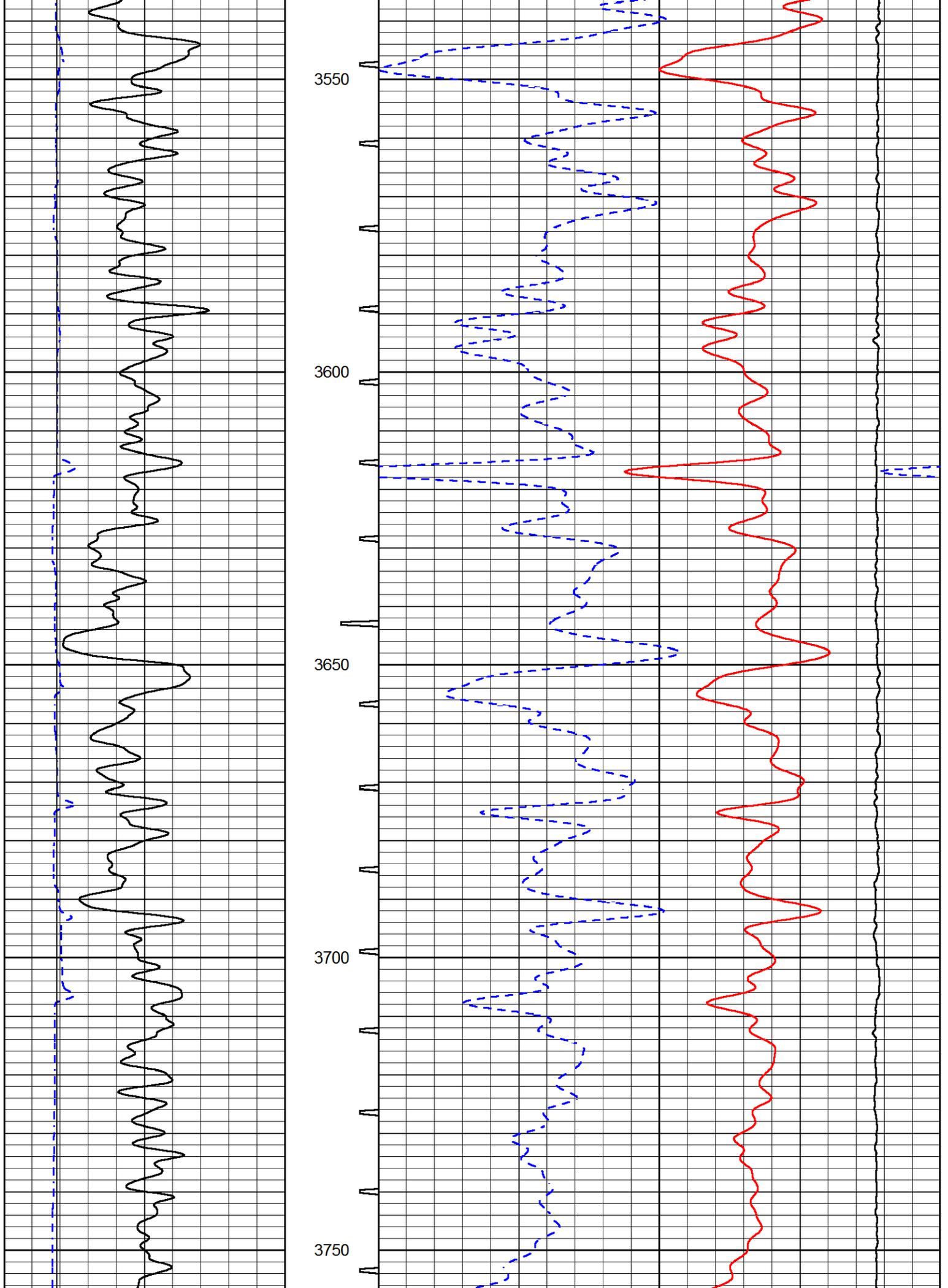


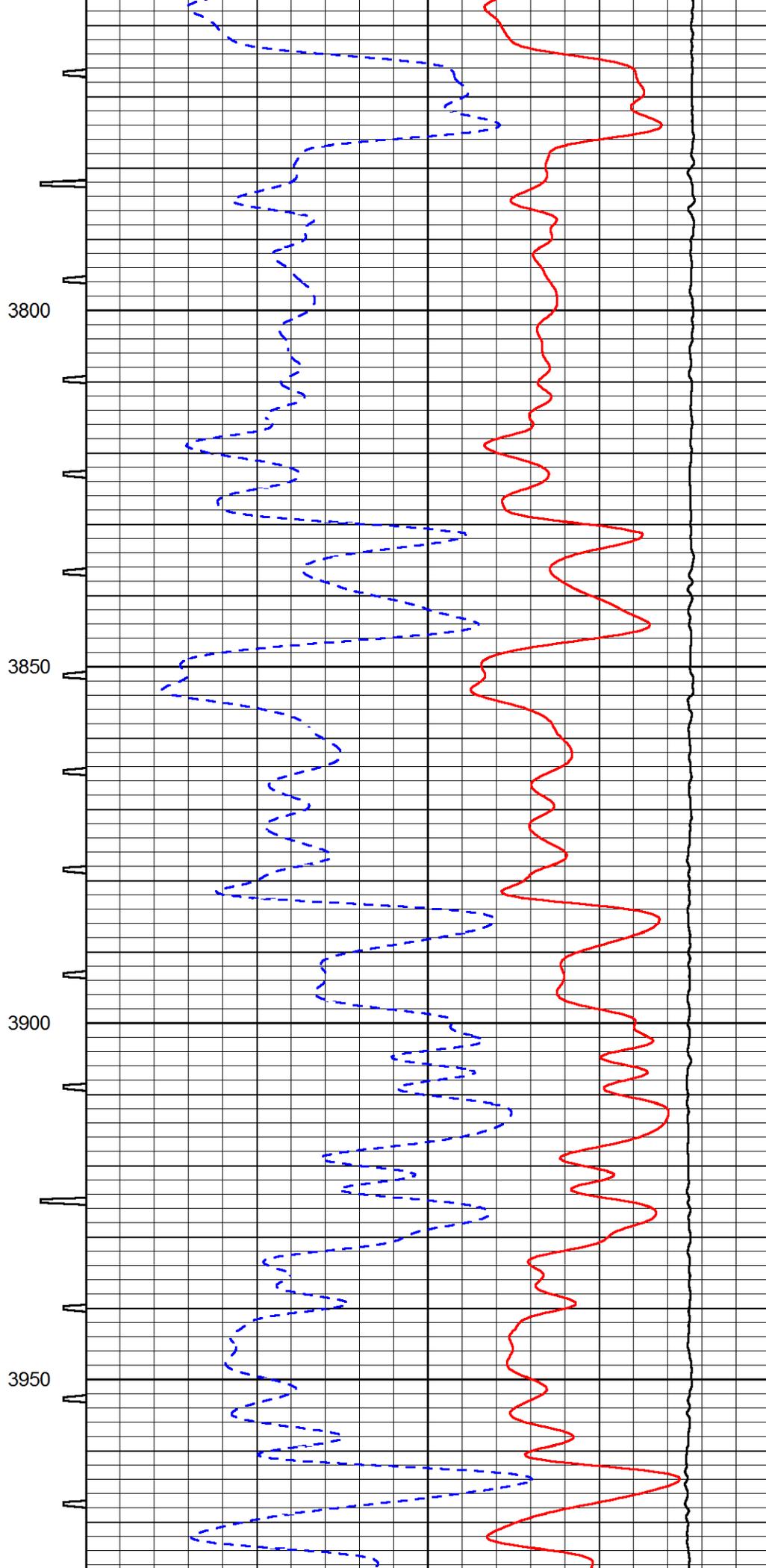
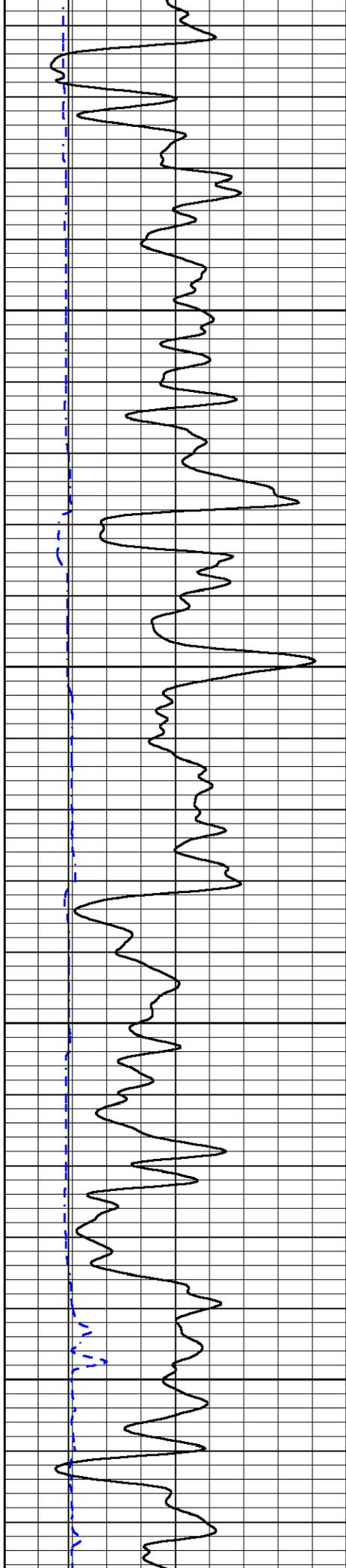


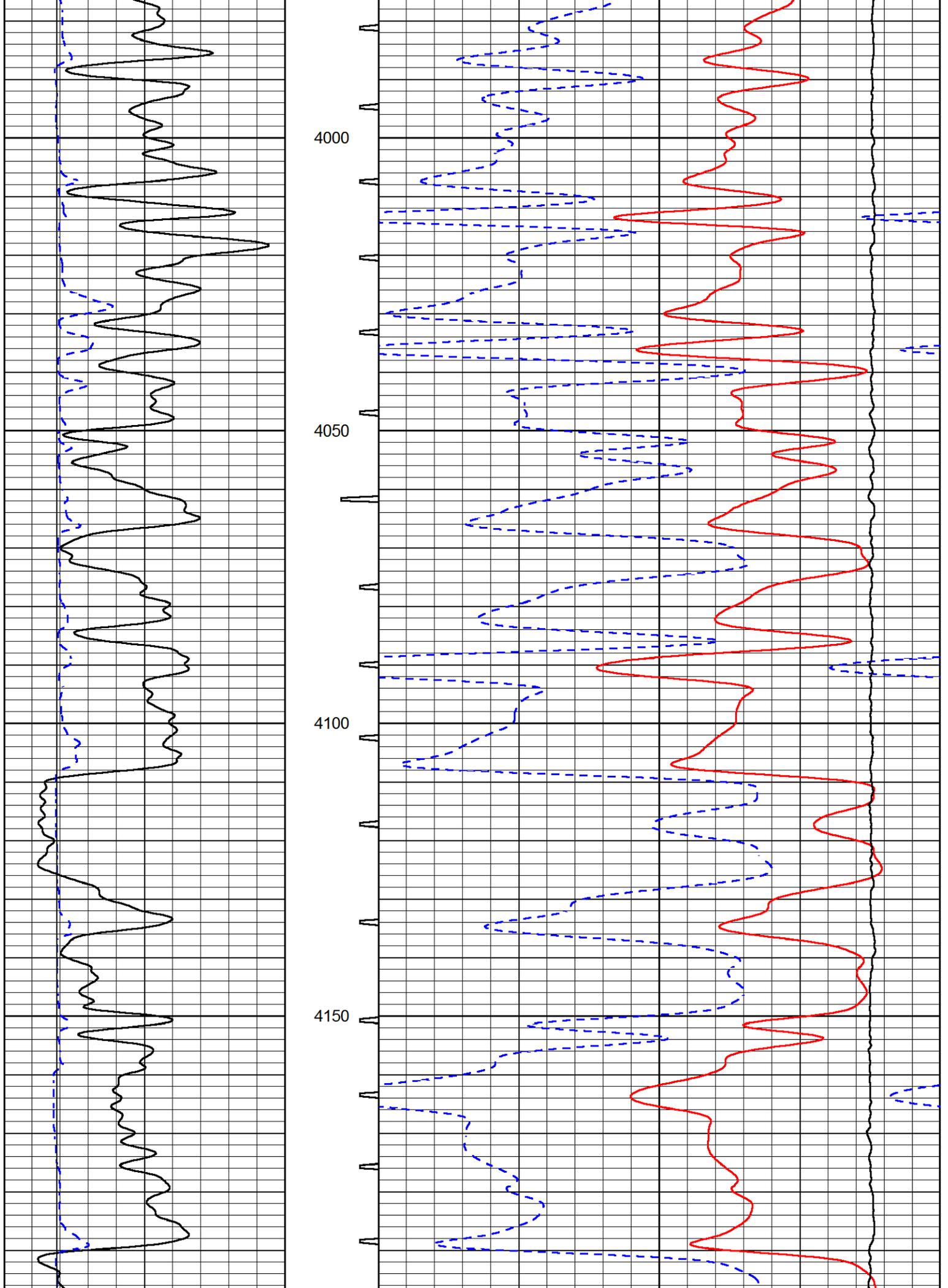


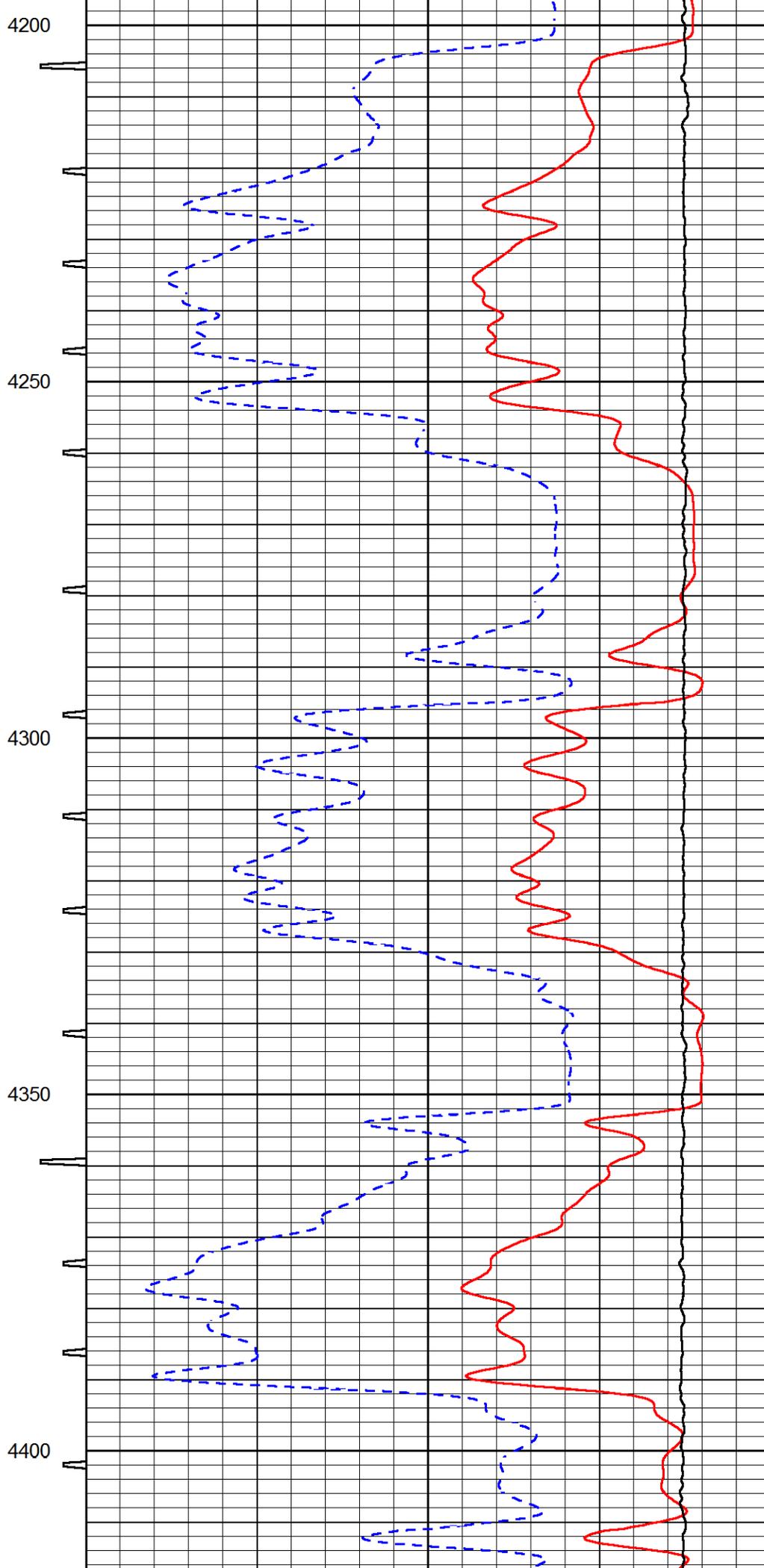
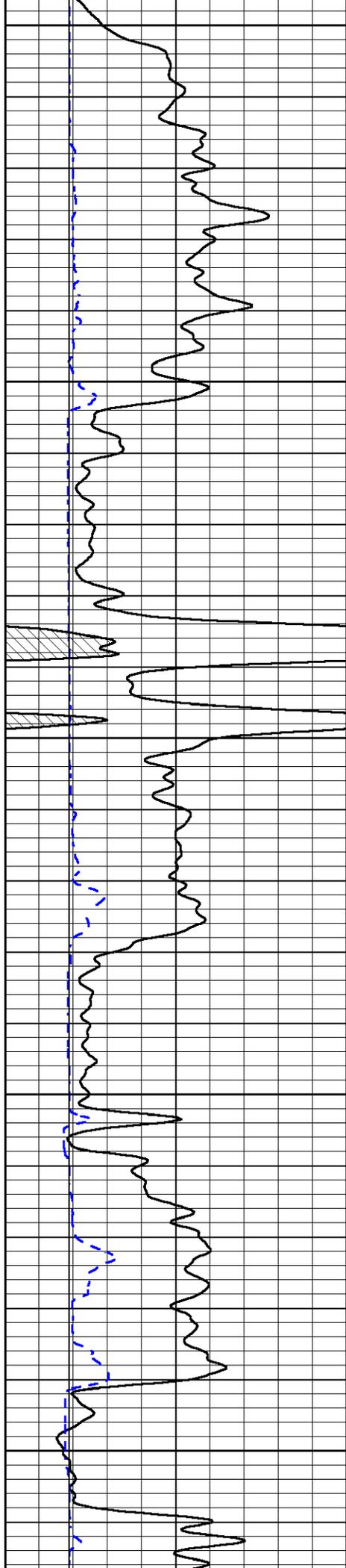


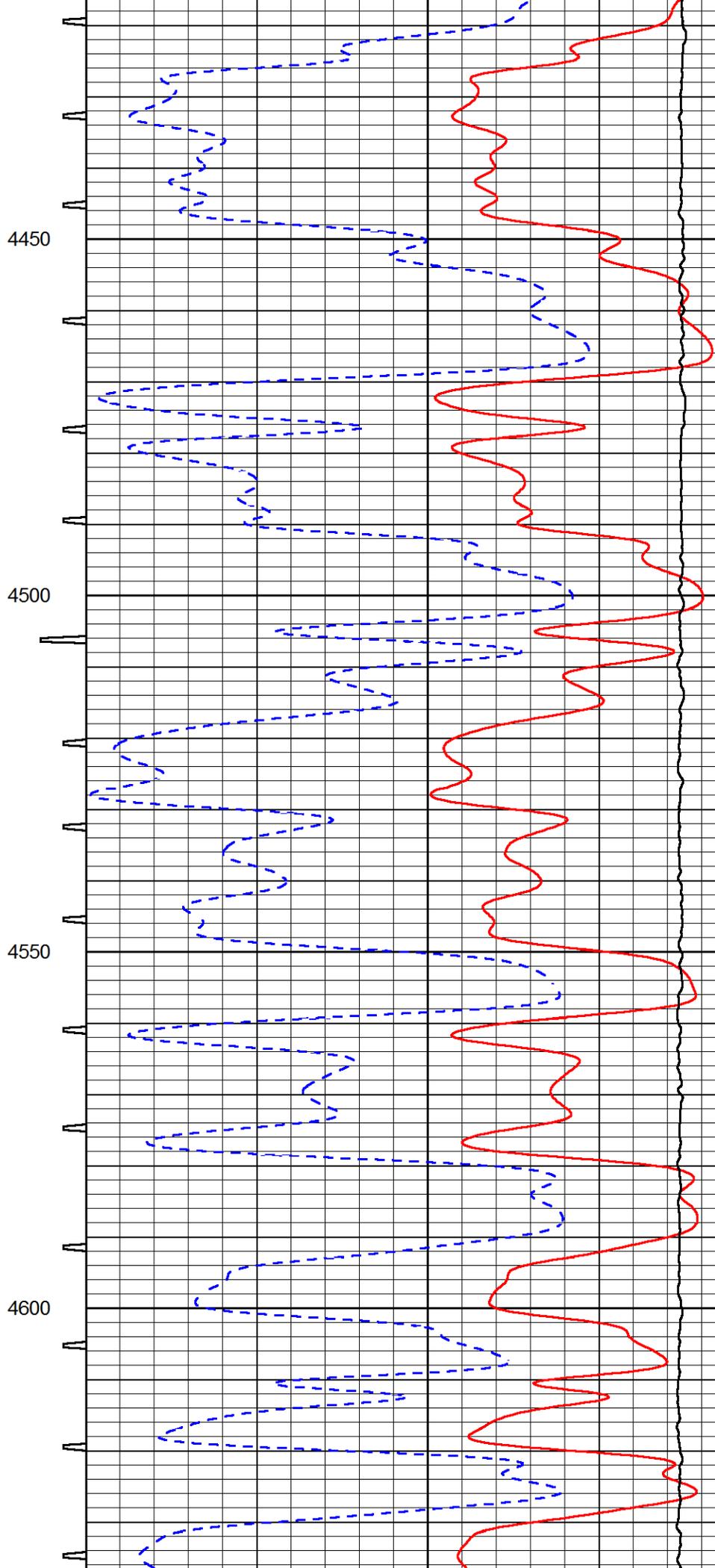
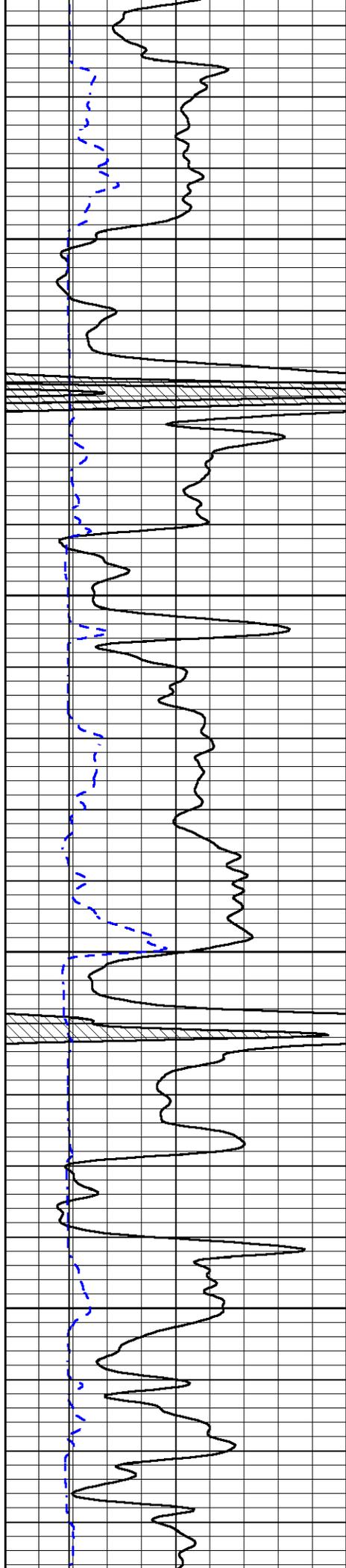


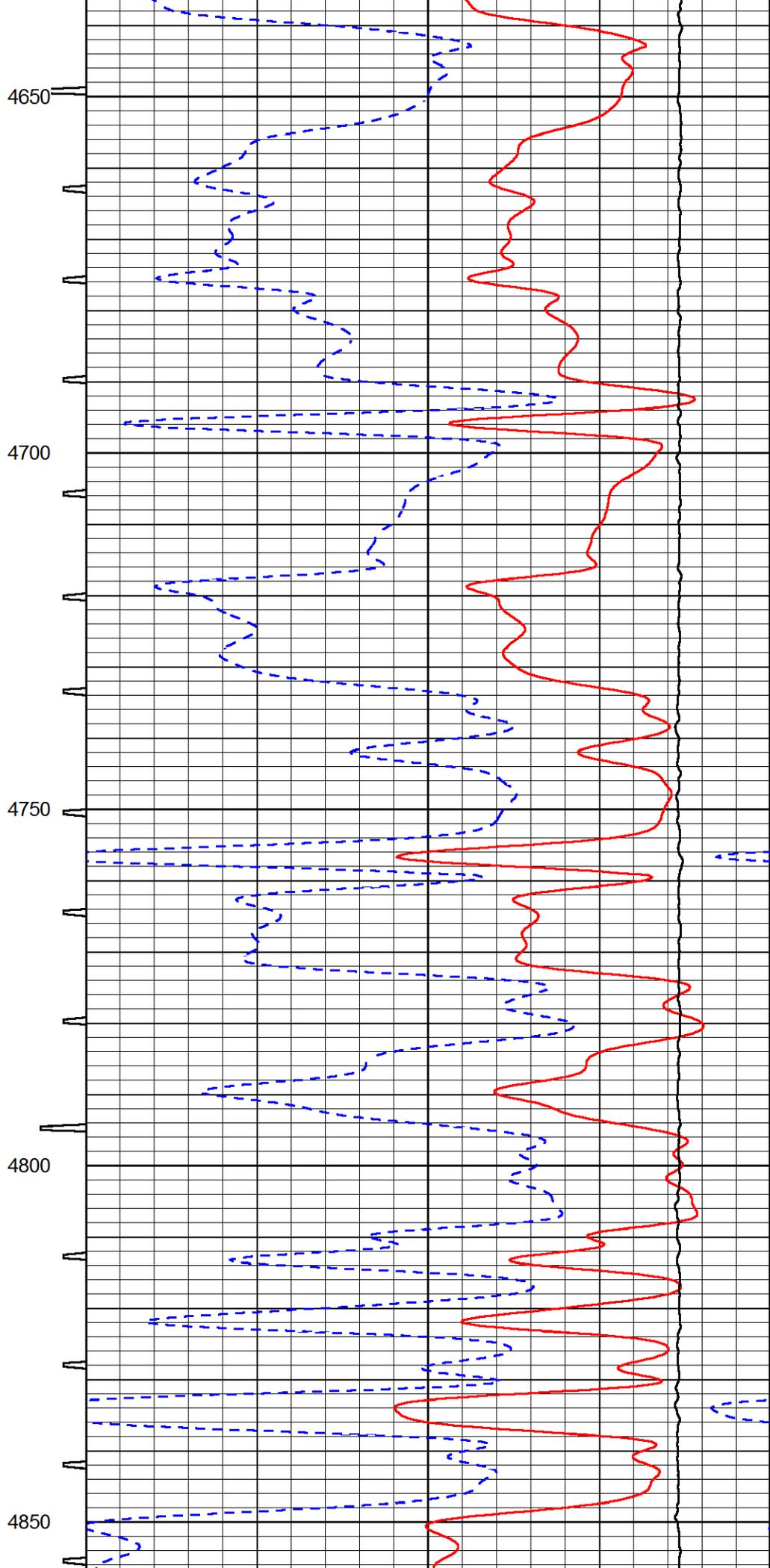
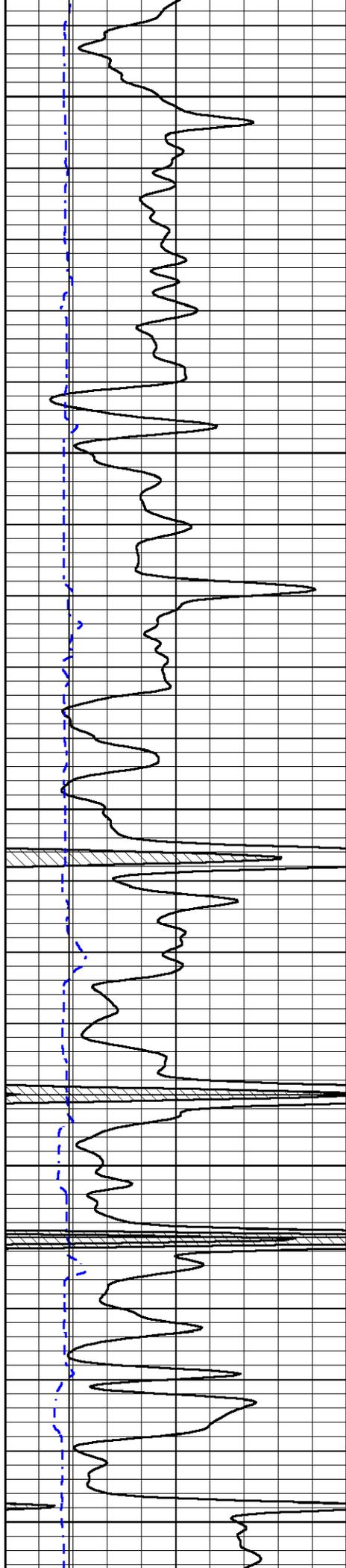


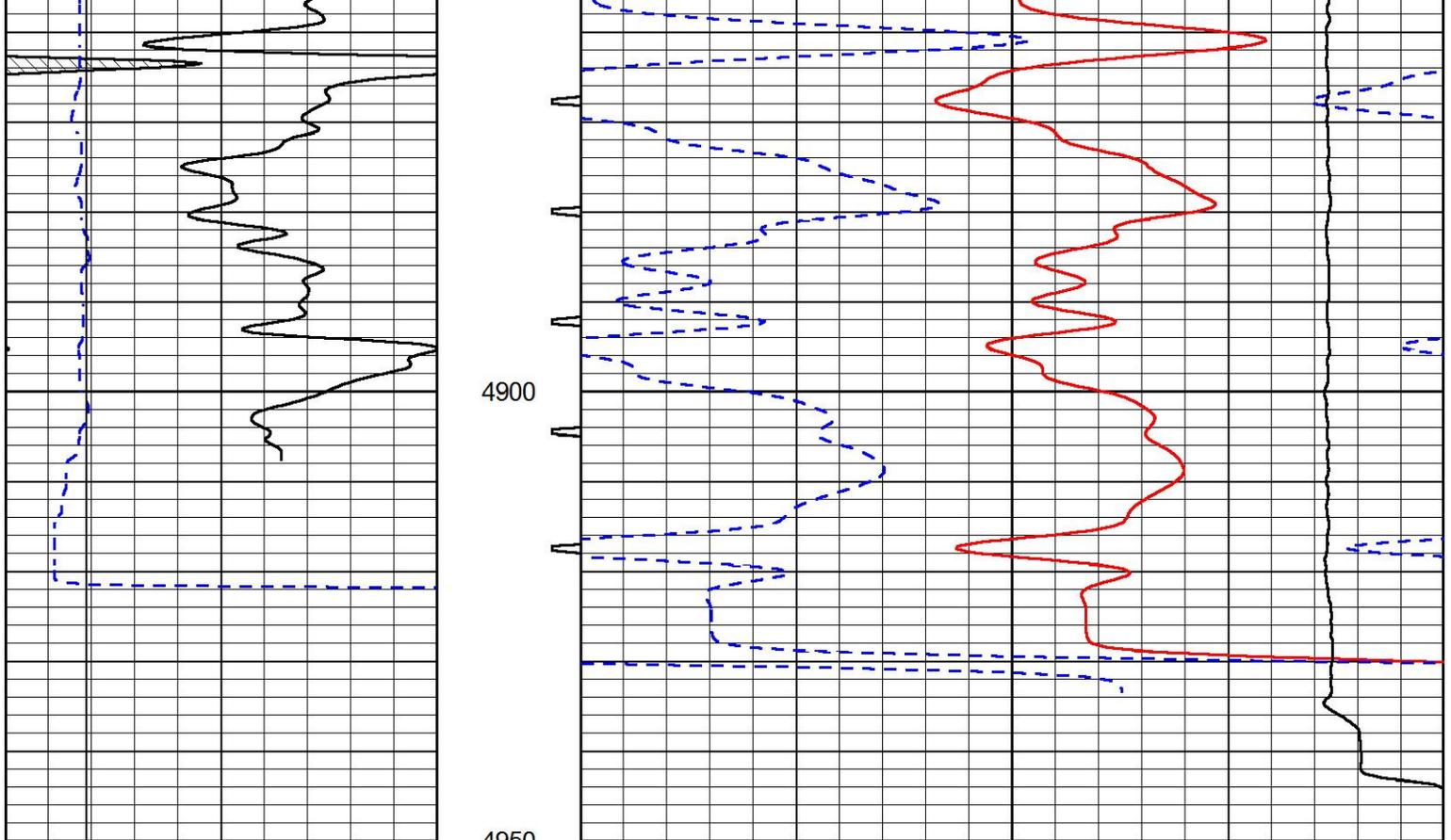












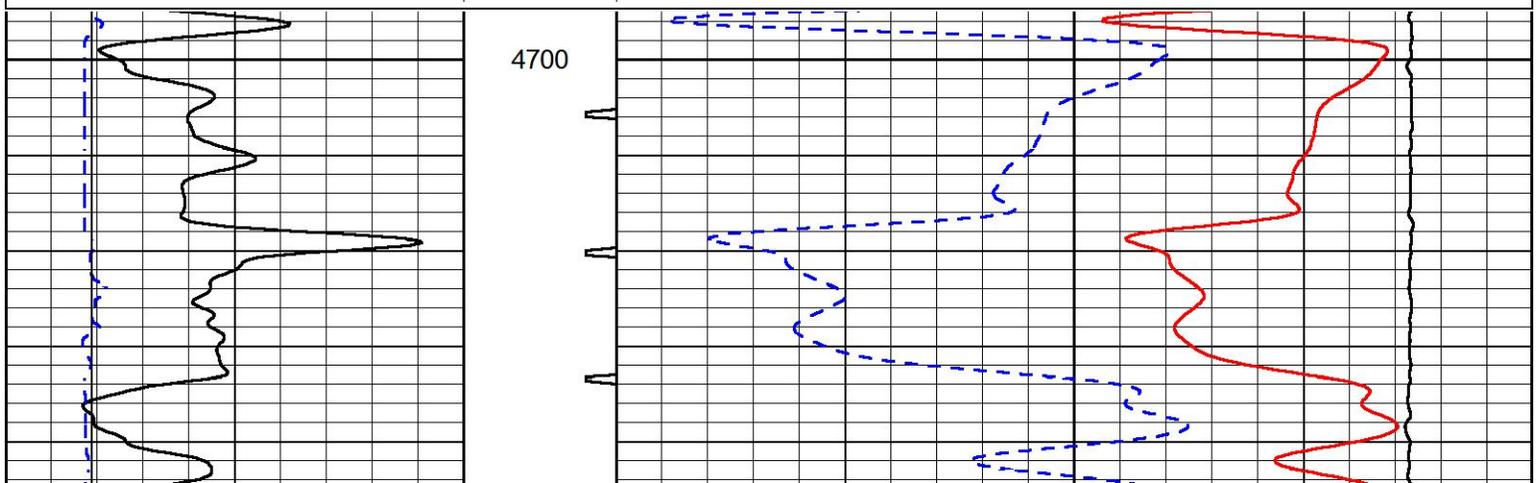
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6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

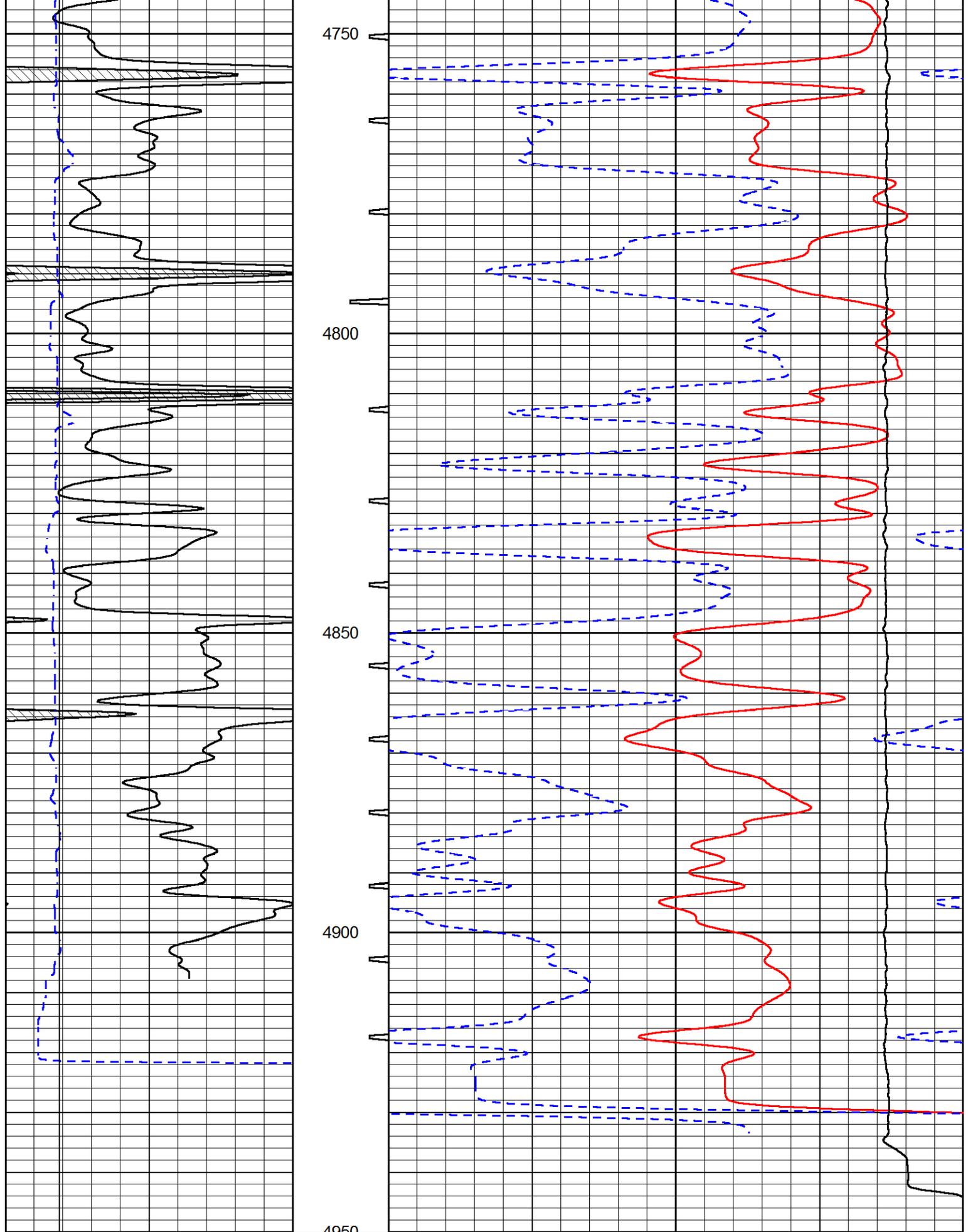


REPEAT SECTION

Database File murfin_banister_a_2_22.db
 Dataset Pathname stack/pass2.2
 Presentation Format sonic
 Dataset Creation Sun May 20 12:29:55 2018
 Charted by Depth in Feet scaled 1:240

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6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0





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6	CALIPER (in)	16	TRAVEL TIM	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0



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