



MIDWEST WIRELINE

# BOREHOLE COMPENSATED SONIC

**Company Satchell Creek Petroleum LLC**  
**Well Worcester A #11-21**  
**Field Alda South**  
**County Graham State Kansas**

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 Well Worcester A #11-21  
 Field Alda South  
 County Graham  
 State Kansas

<b>Location:</b> SEC 21 TWP 7S RGE 22W SW NW SE SE 667 FSL & 1310 FEL	API #: 15-065-24267-00-00 Ground Level Elevation 2268 Log Measured From Kelly Bushing Drilling Measured From Kelly Bushing
Other Services CNL/CDL MEL/DIL	

Date	7/14/2023	
Run Number	Two	
Type Log	BHCS	
Depth Driller	3849	
Depth Logger	3850	
Bottom Logged Interval	3838	
Top Logged Interval	200	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	1500	
Density	9.5	
Level	Full	
Max. Rec. Temp. F	114	
Operating Rig Time	4 Hours	
Equipment -- Location	P-24 Hays	
Recorded By	T. Martin	
Witnessed By	Sean Deenihan	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	222	8.625	23	00	222
Two	7.875	222	TD				

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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**

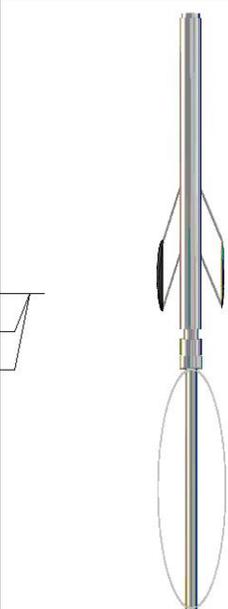
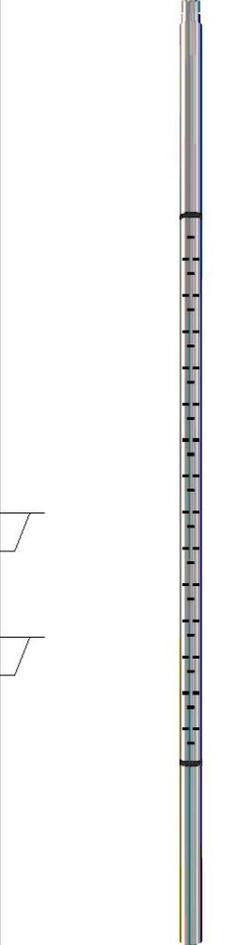
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Hill City, KS, E to 310 Rd, 2.5 N, W into @ TB

Log Measured From: Kelly Bushing                      7 Ft. Above Permanent Datum

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

<b>Your Midwest Wireline Crew</b> Engineer: T. Martin Operator: Operator: Operator:	<b>This Log Record Was Witnessed By</b> Primary Witness: Sean Deenihan Secondary Witness: Secondary Witness: Secondary Witness:
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	25.50 25.50 25.50		ML-Pengo (Pengo1)	5.50	3.50	100.00
			CENT-PENGO (4-PENGO)	4.25	3.00	70.00
WVF4 WVF1	12.25 12.25		SLT-PENGO (601) 3 1/2 BHC Sonic	16.00	3.50	300.00
WVF3 WVF2	10.25 10.25					
			CENT-PENGO (3-PENGO)	4.25	3.00	70.00

Dataset: satchell\_worcester a #11-21.db: field/well/SonMel/pass3  
 Total length: 30.00 ft  
 Total weight: 540.00 lb  
 O.D.: 3.50 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\satchell\_worcester a #11-21.db  
 Dataset field/well/Stack/pass3.1/\_vars\_

## Top - Bottom

BOREID in 7.875	BOTTEMP degF 114	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m 0	SPSHIFT mV 120	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 3850		

## Variable Description

BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness  
 FLUIDDEN : Fluid Density  
 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

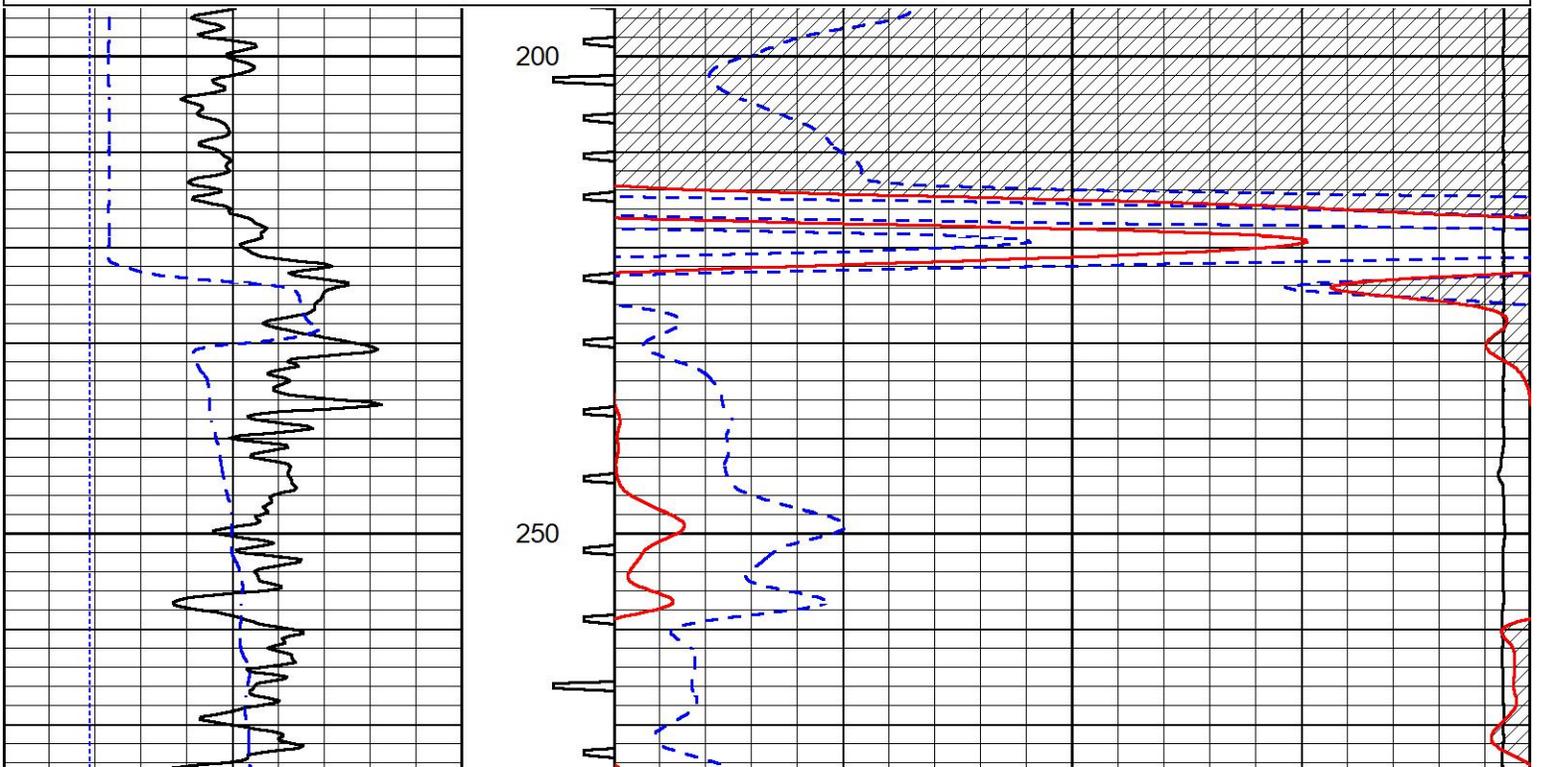


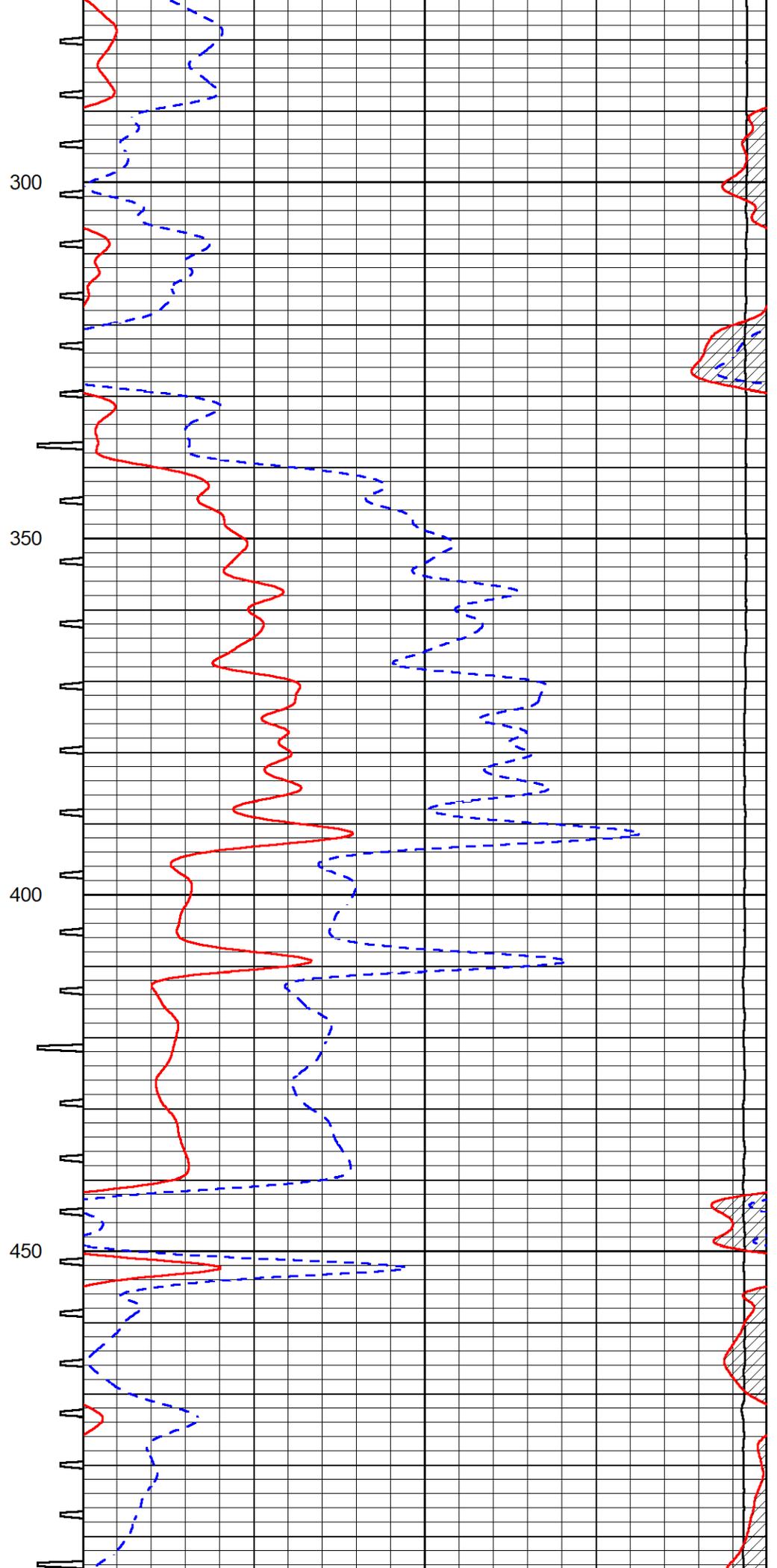
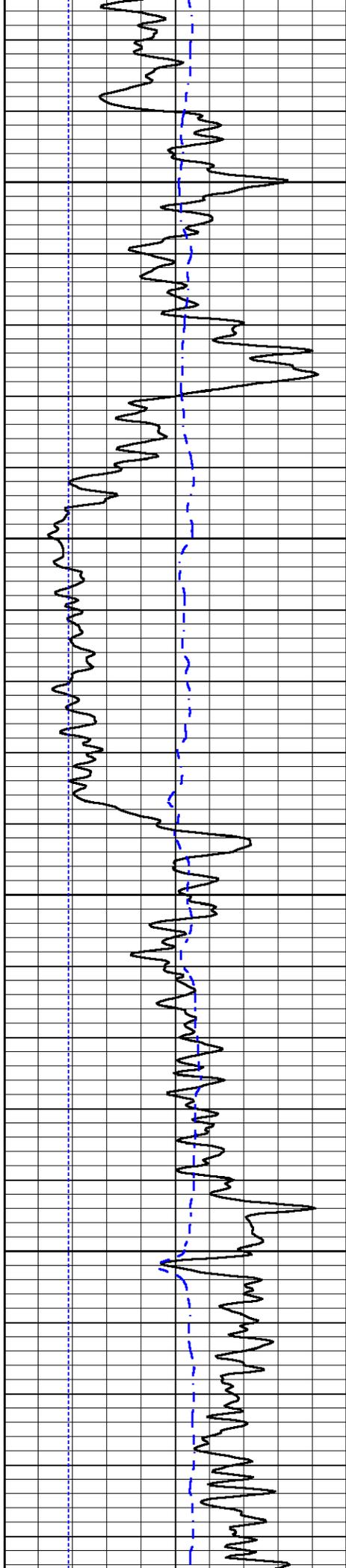
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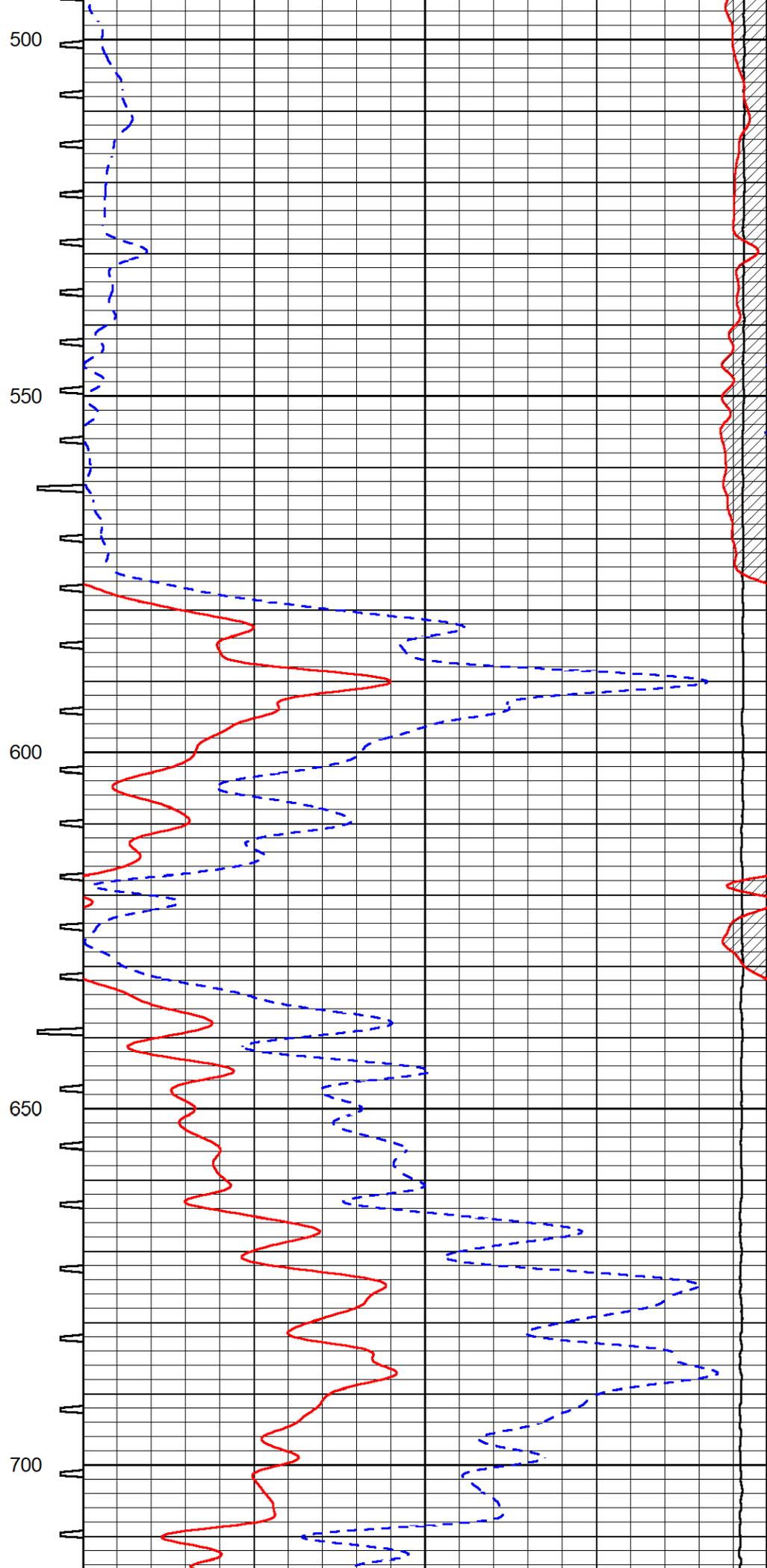
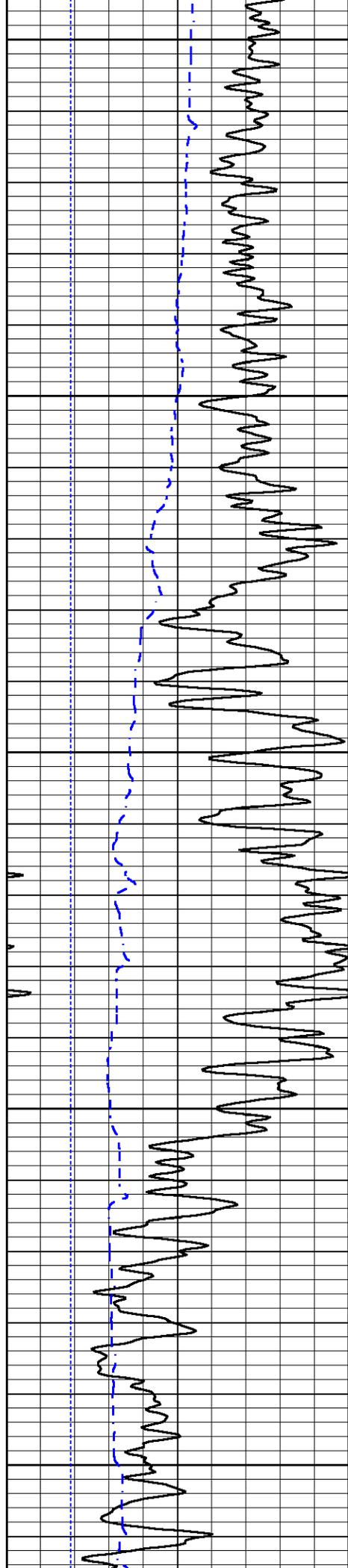
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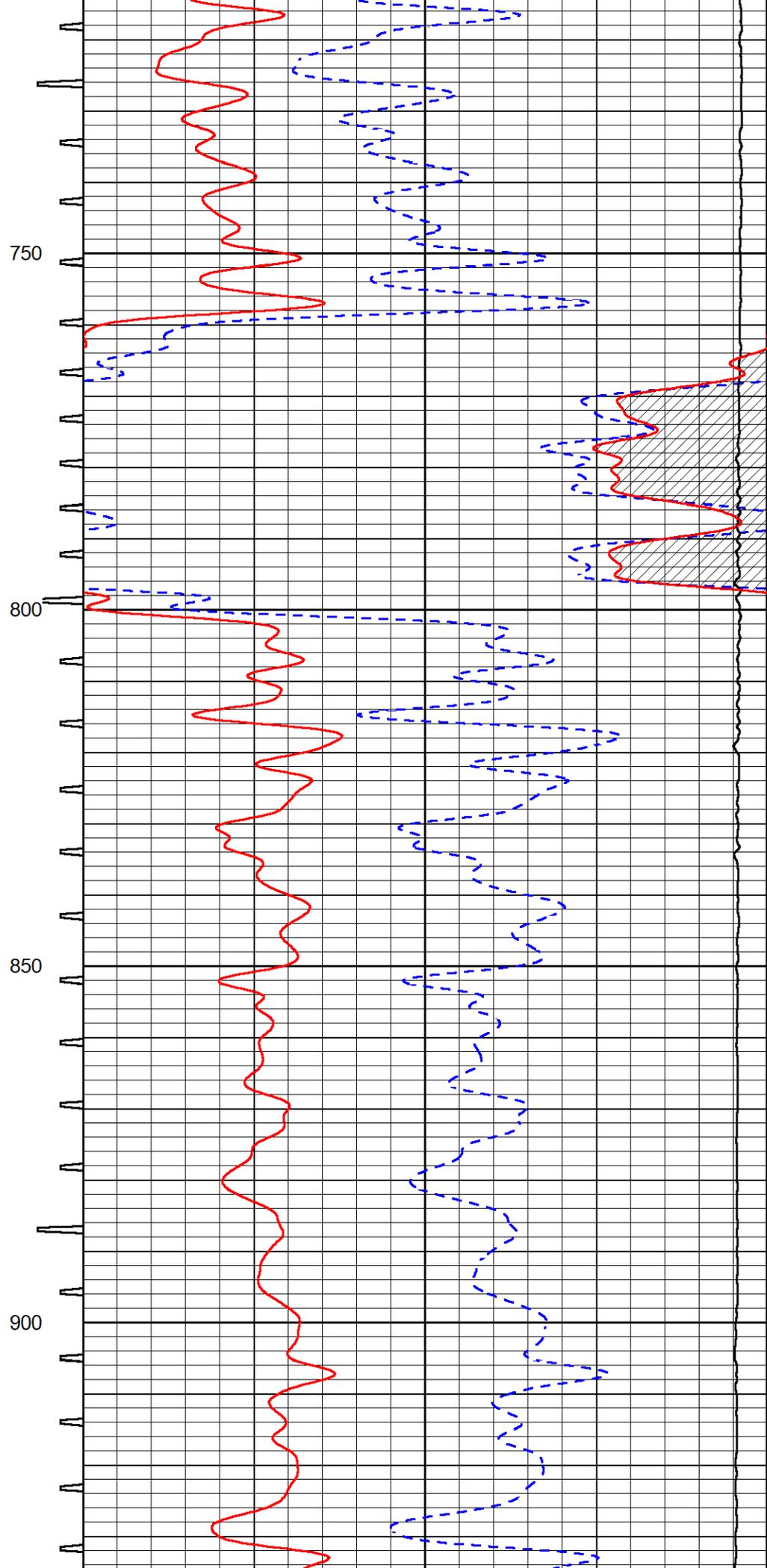
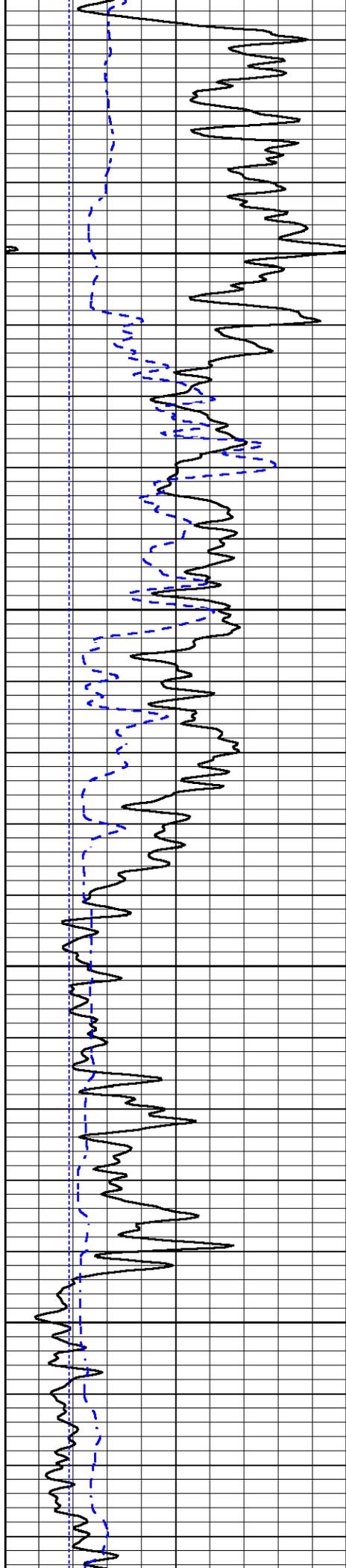
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 Presentation Format \_sonic  
 Dataset Creation Fri Jul 14 14:02:44 2023  
 Charted by Depth in Feet scaled 1:240

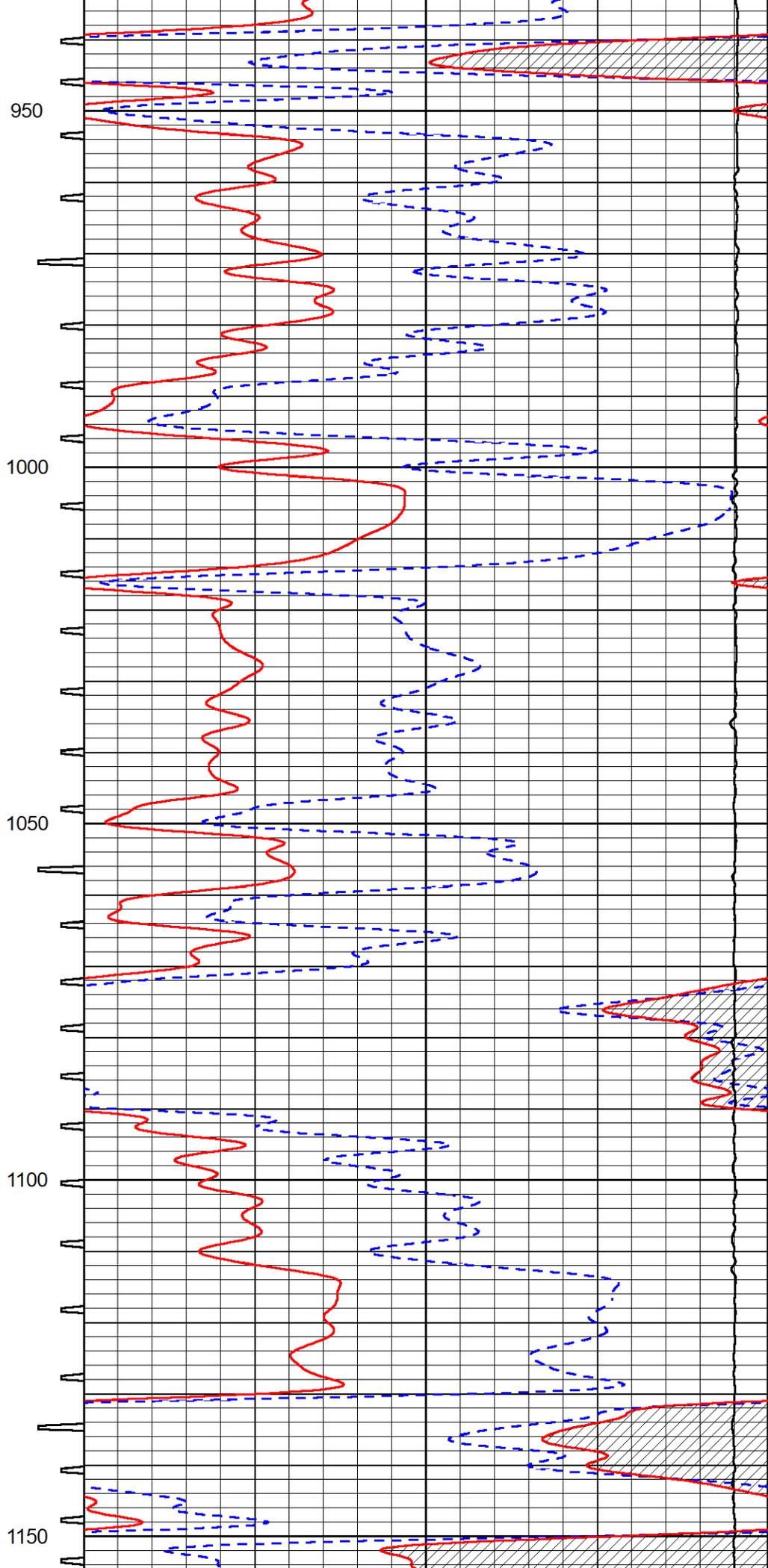
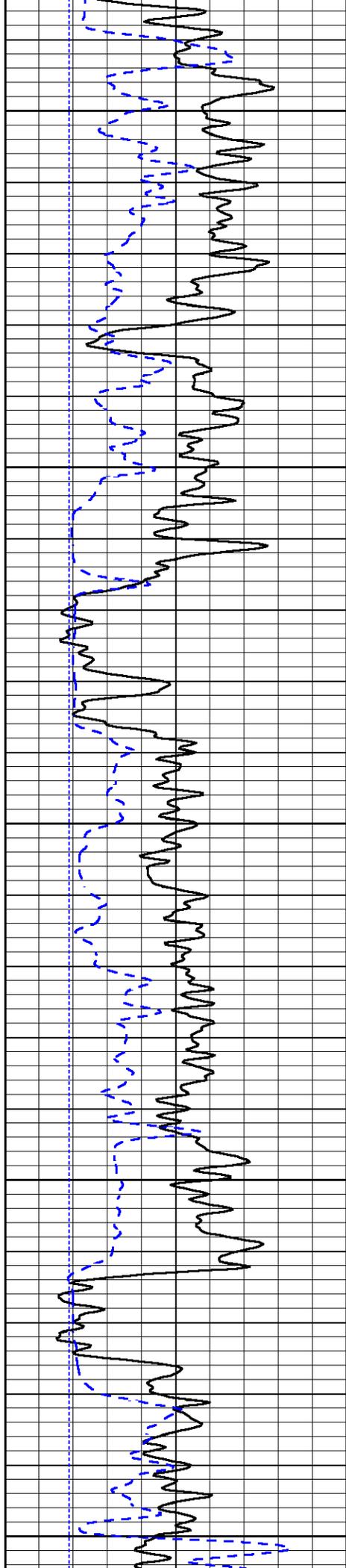
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu)	-10
6	Caliper (in)	16		15000	Line Tension (lb)	0

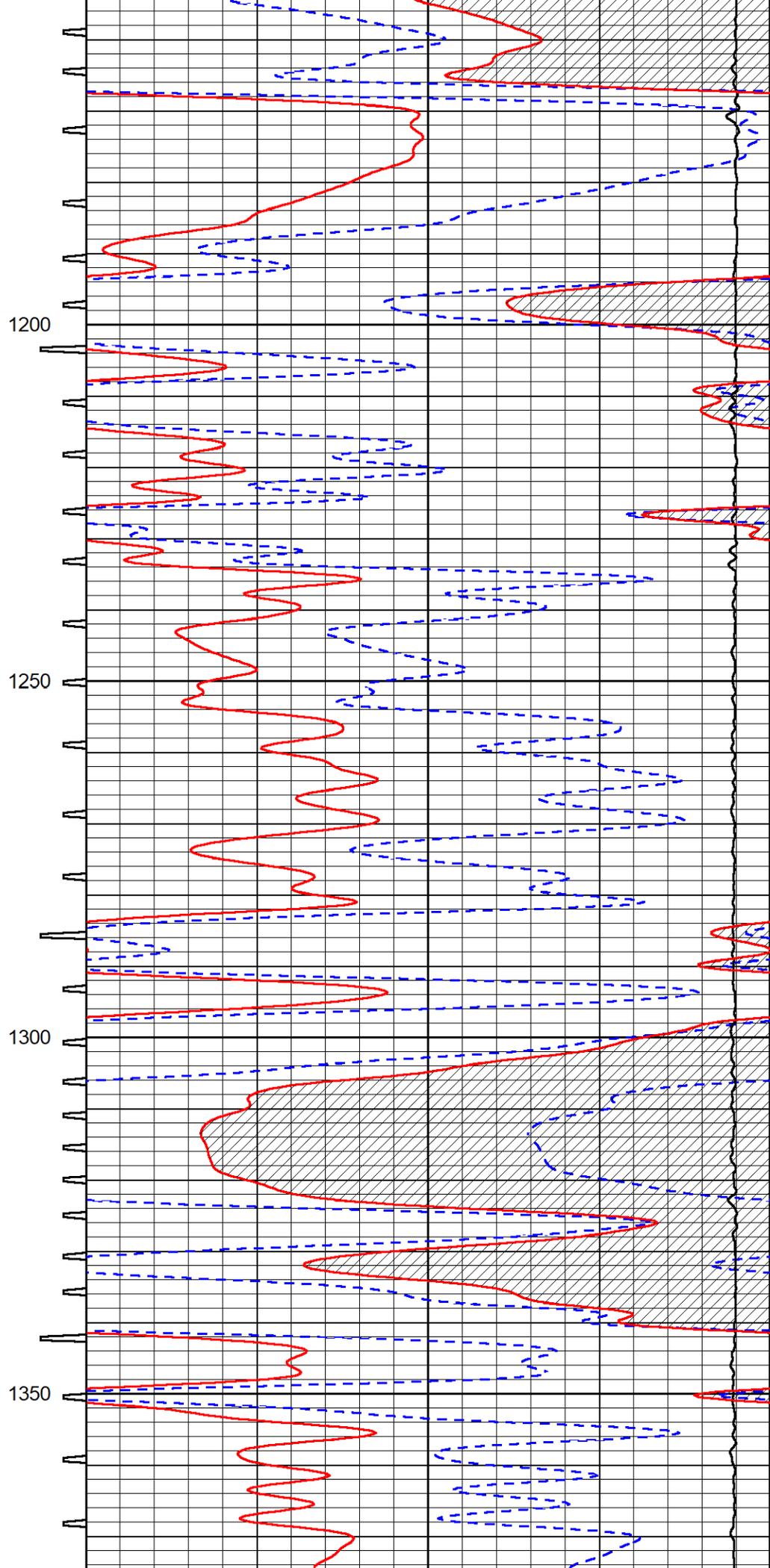
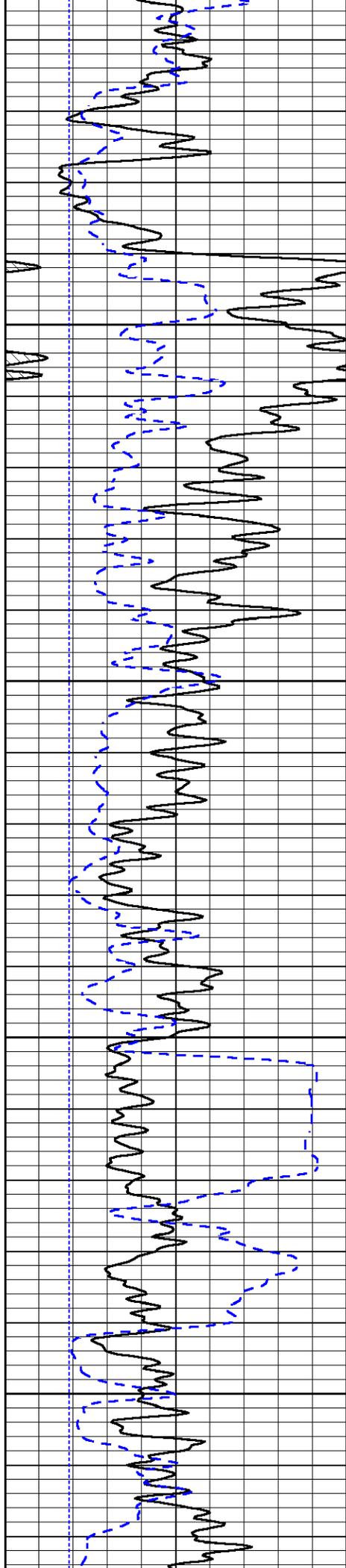


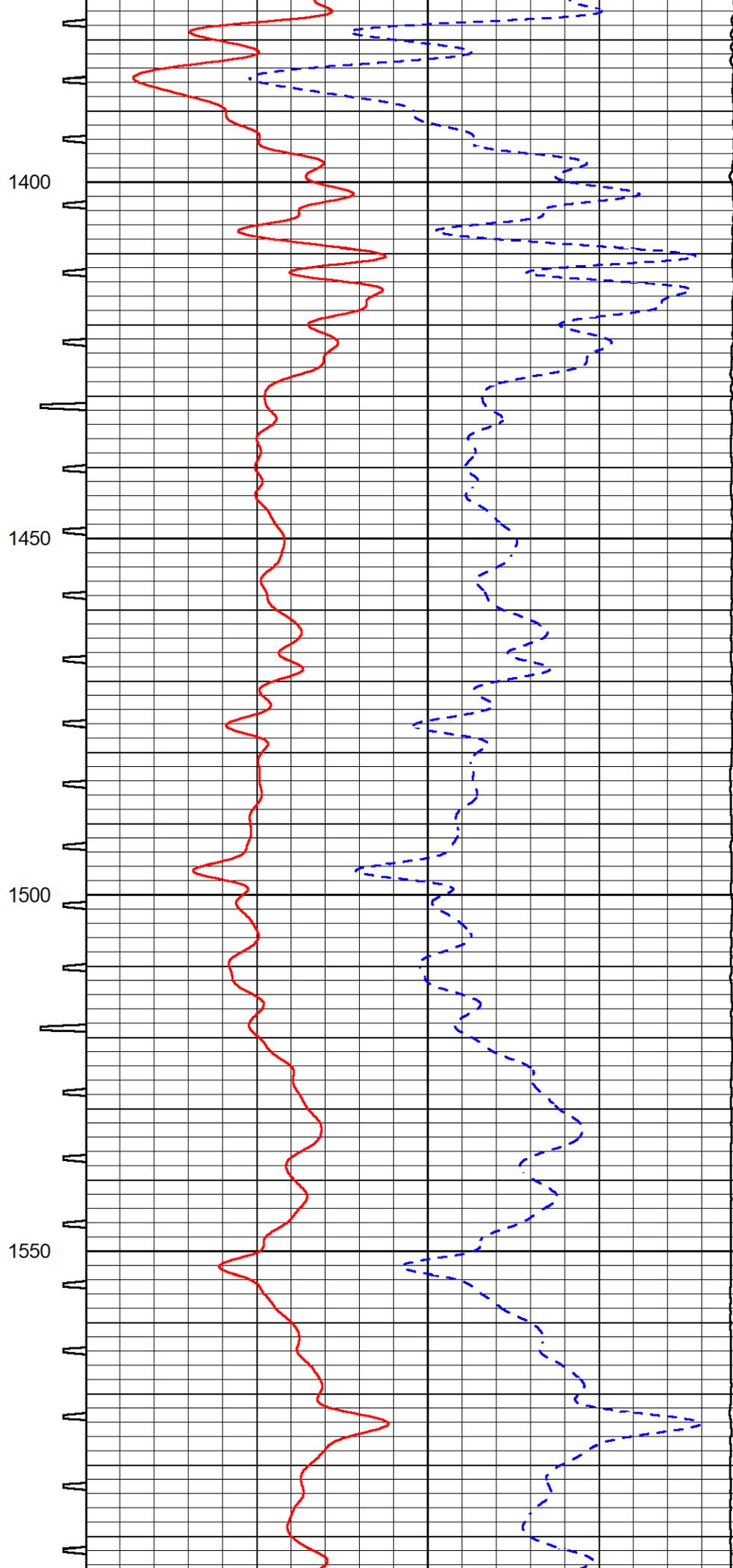
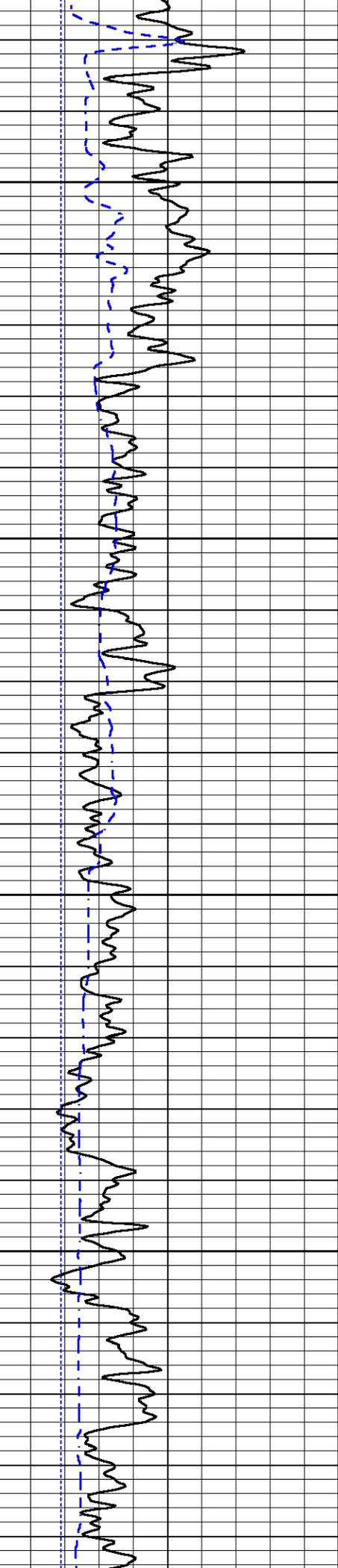


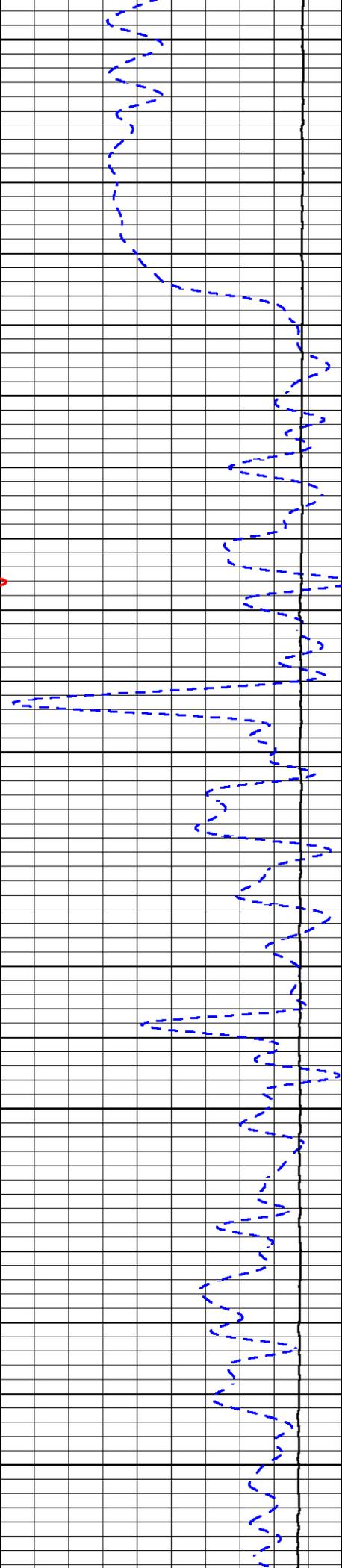
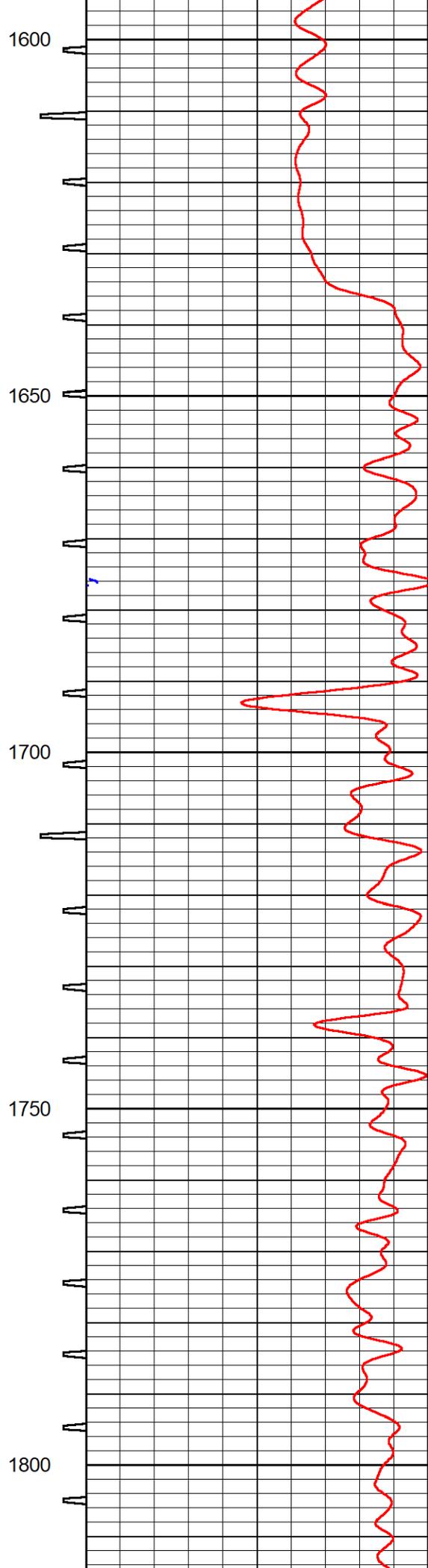
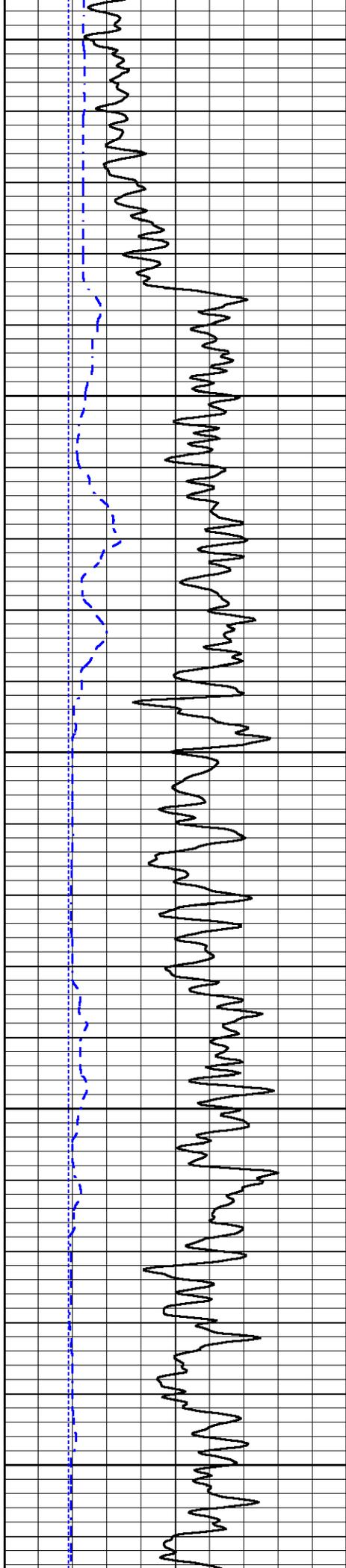


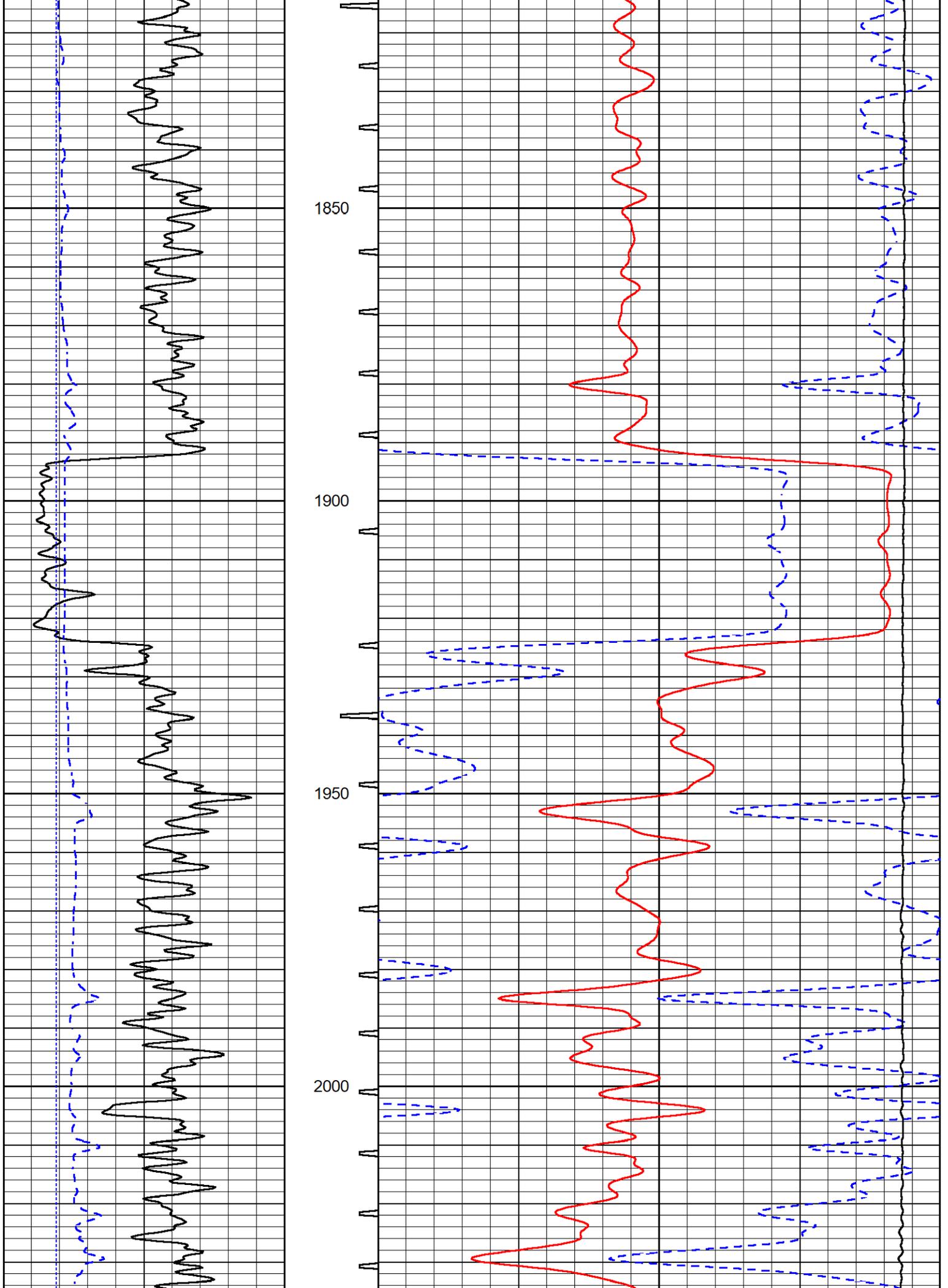


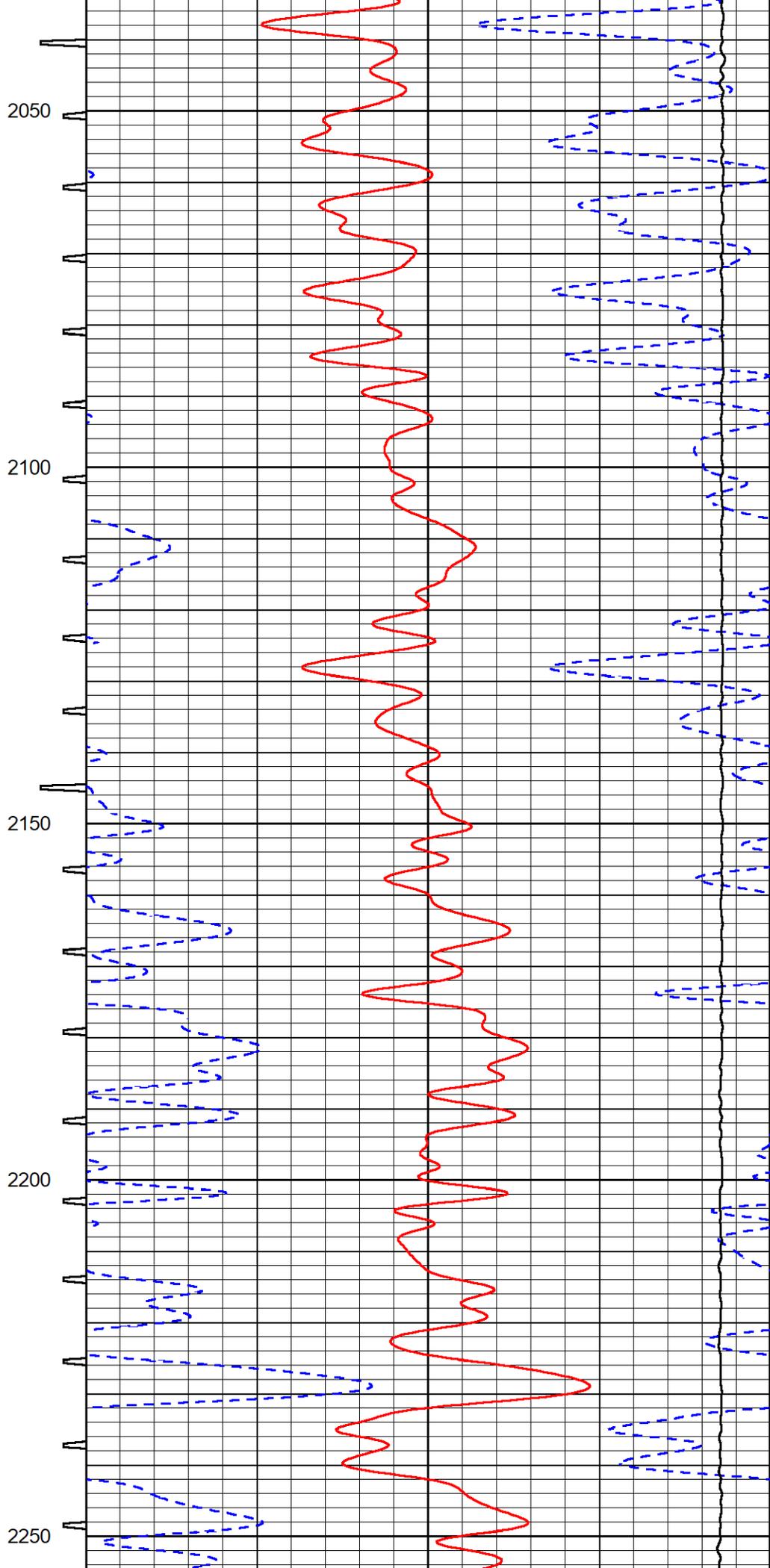
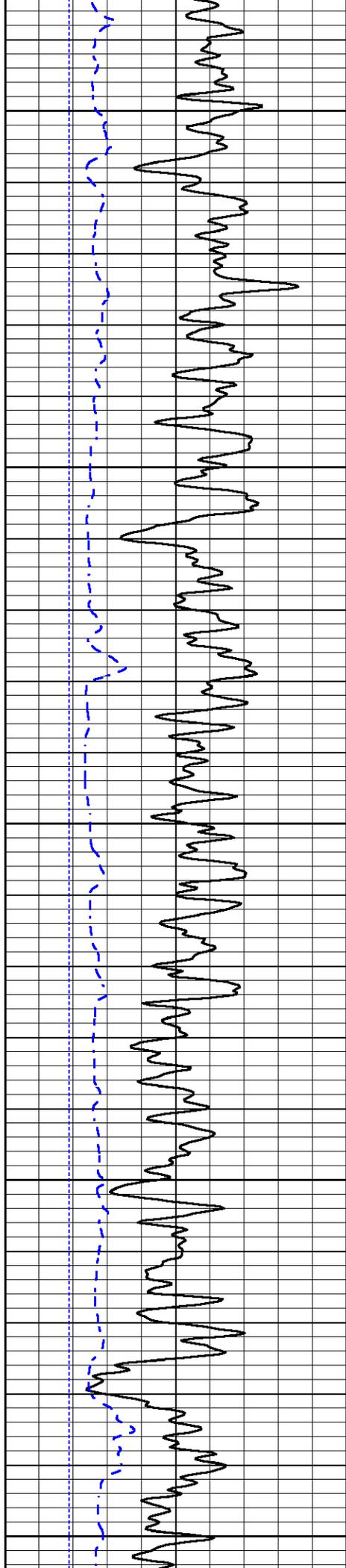


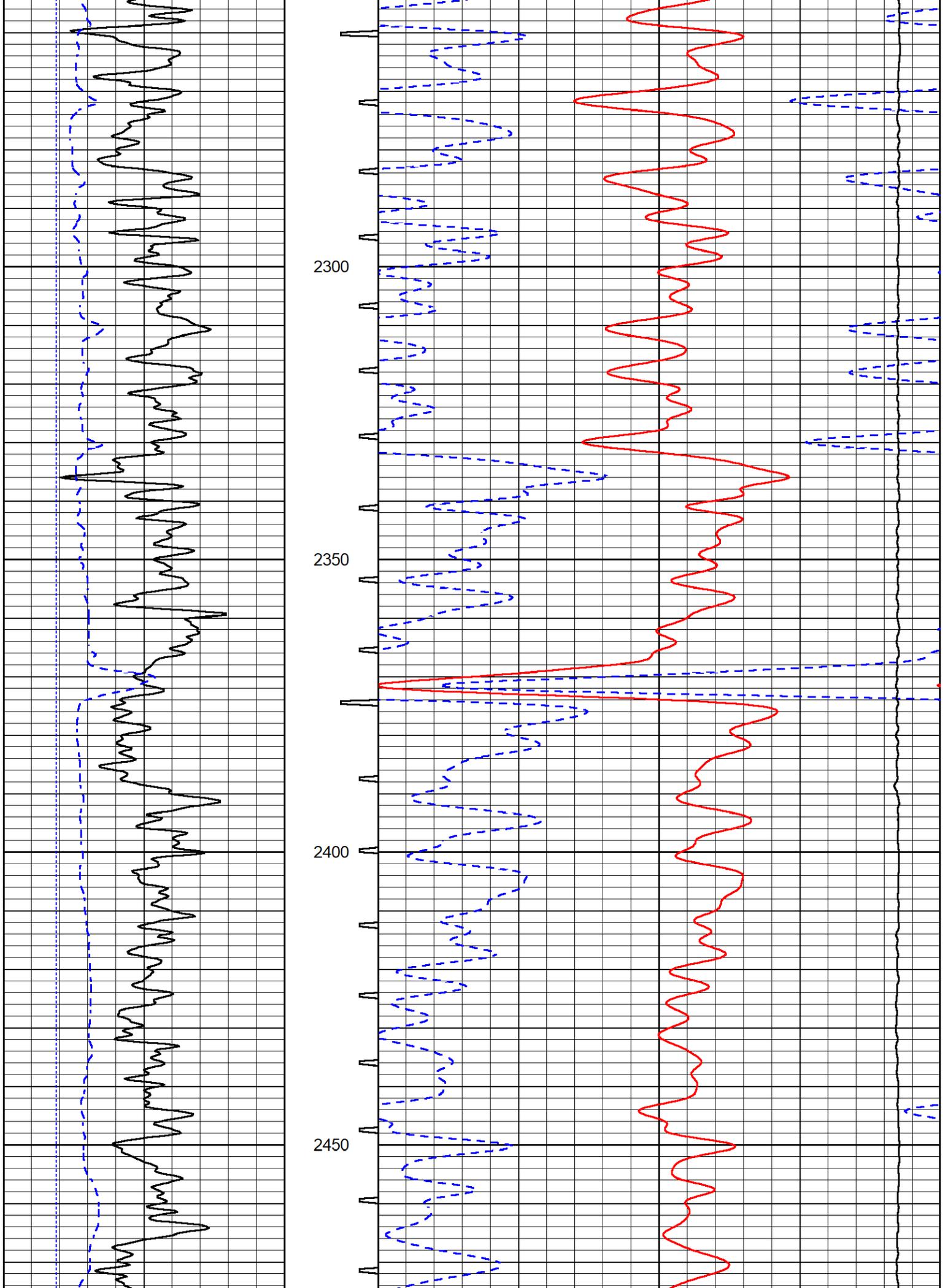


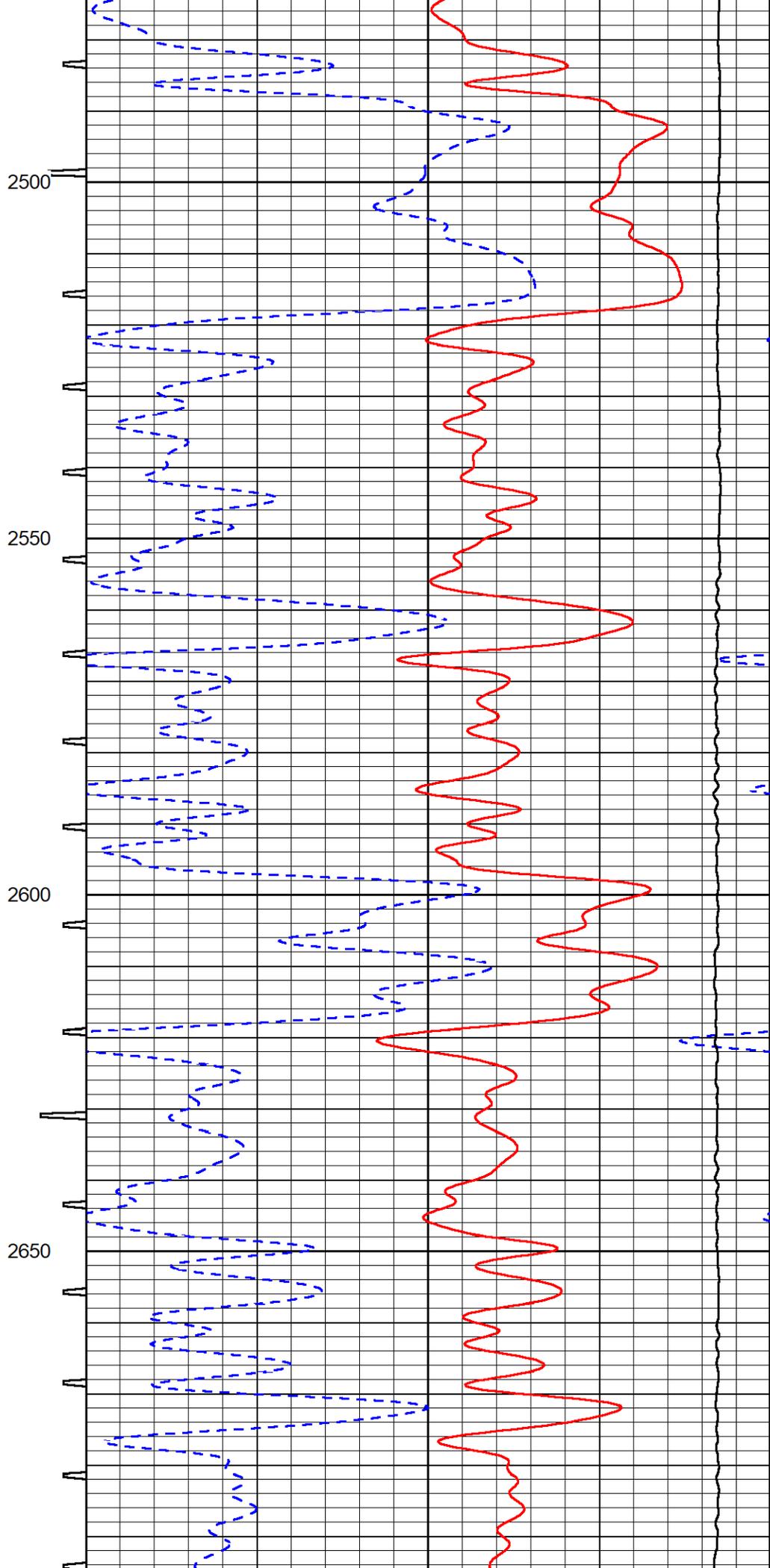
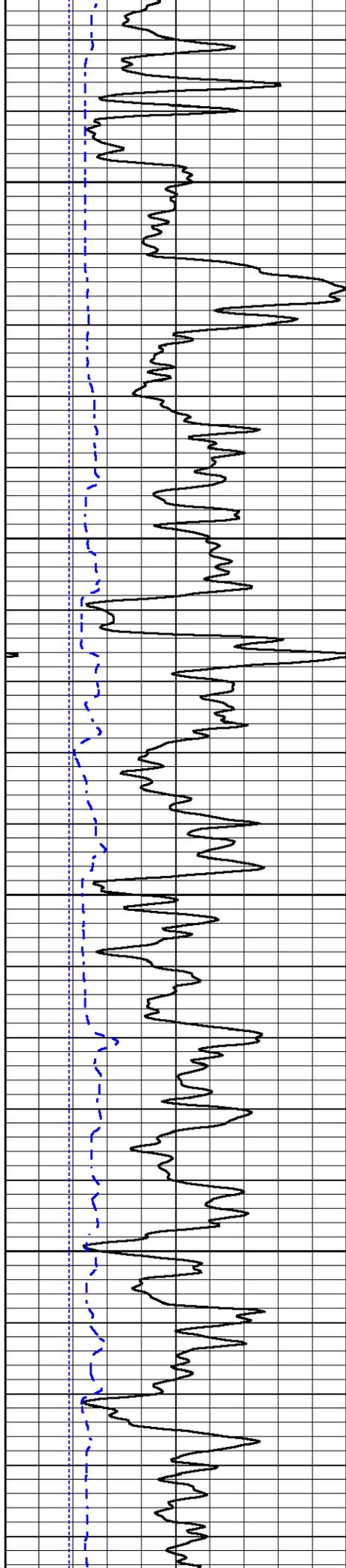


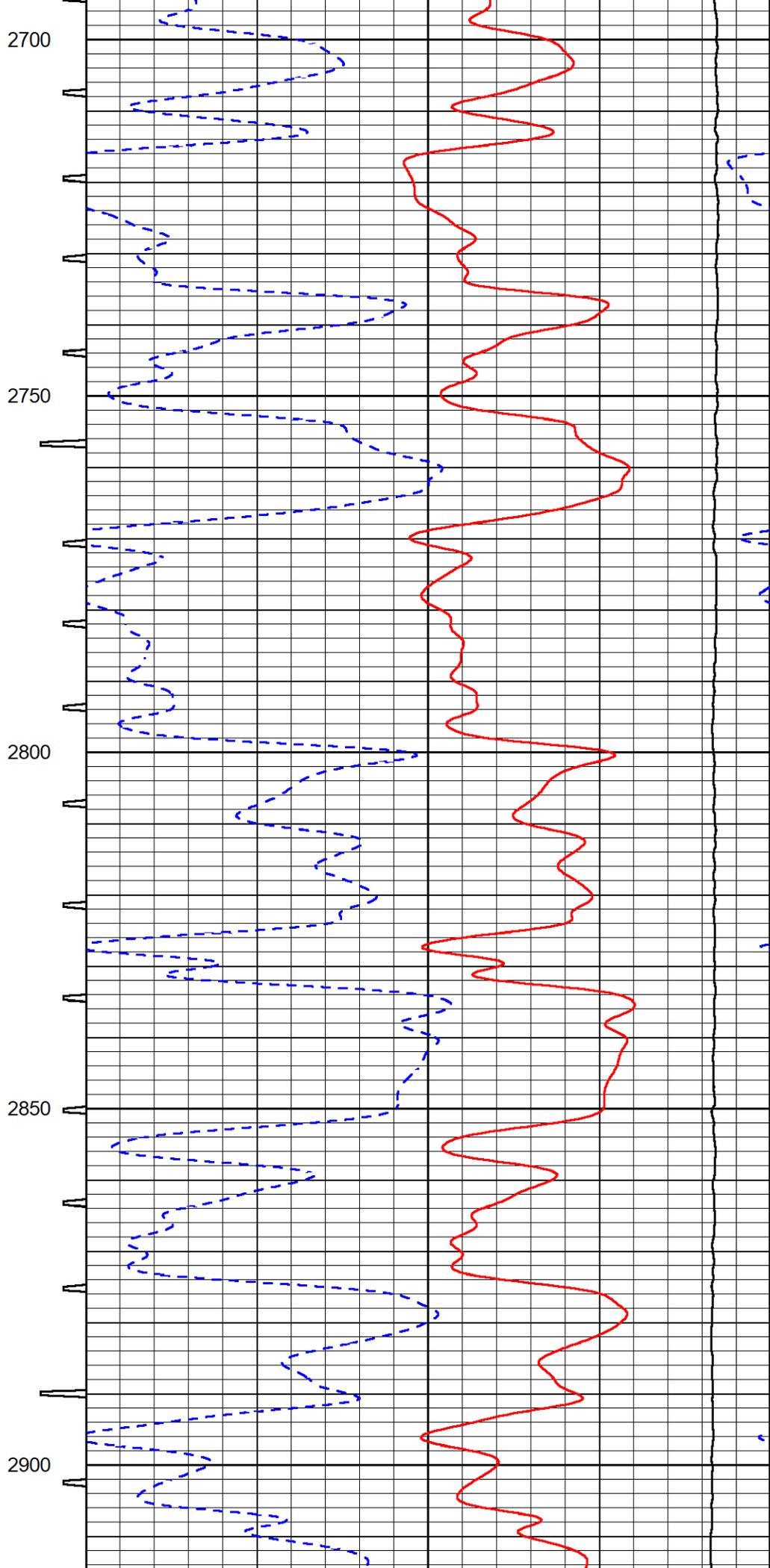
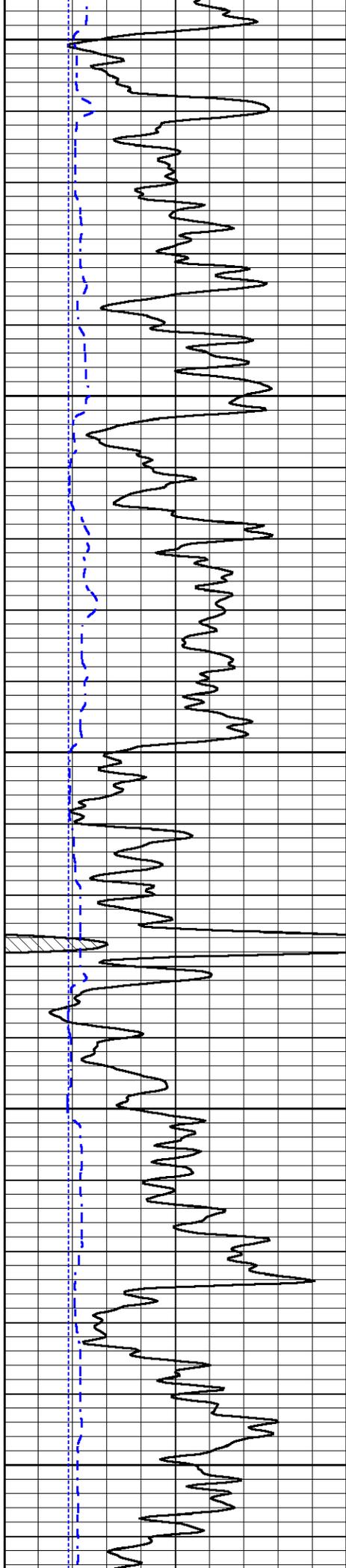


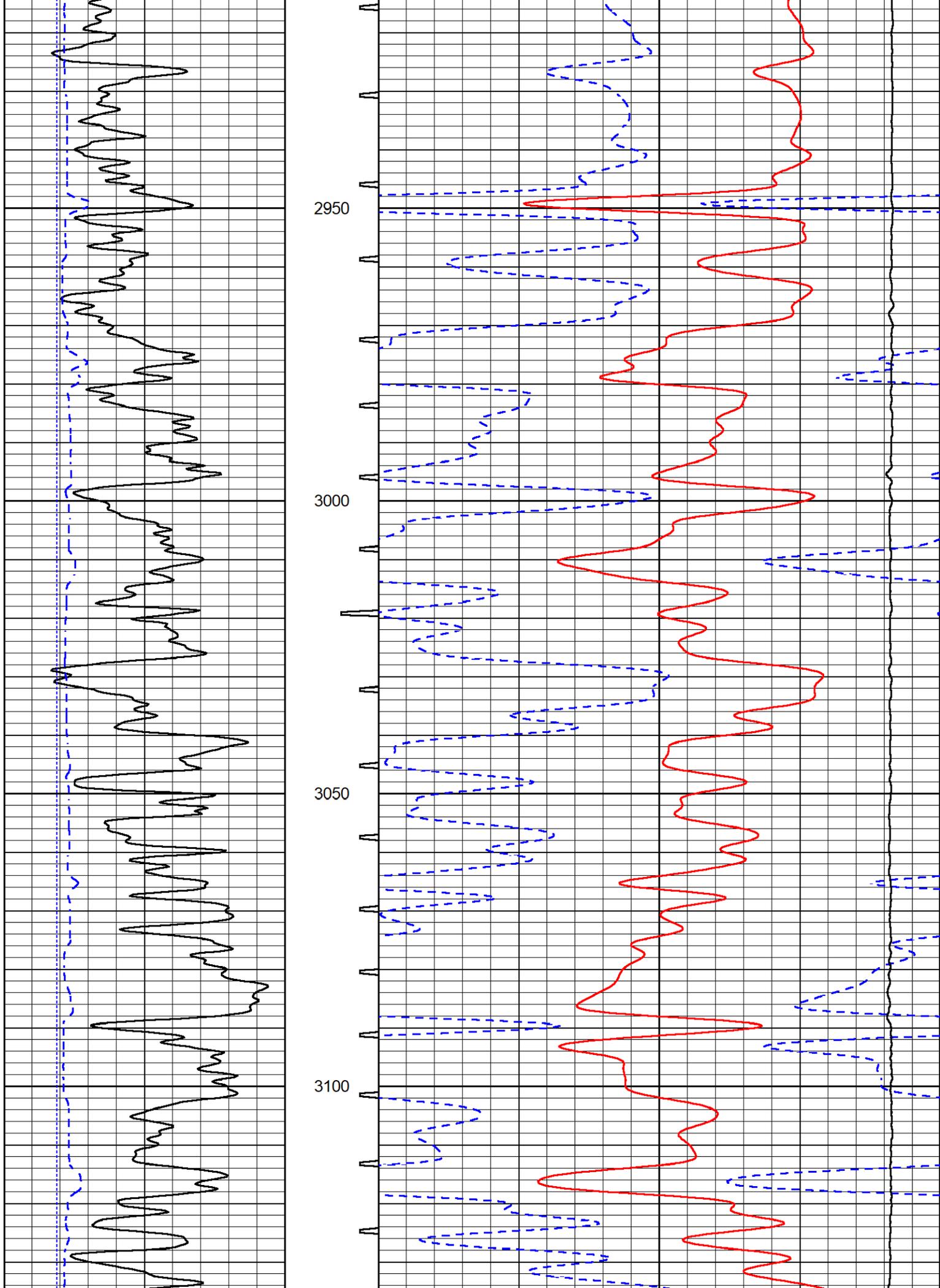


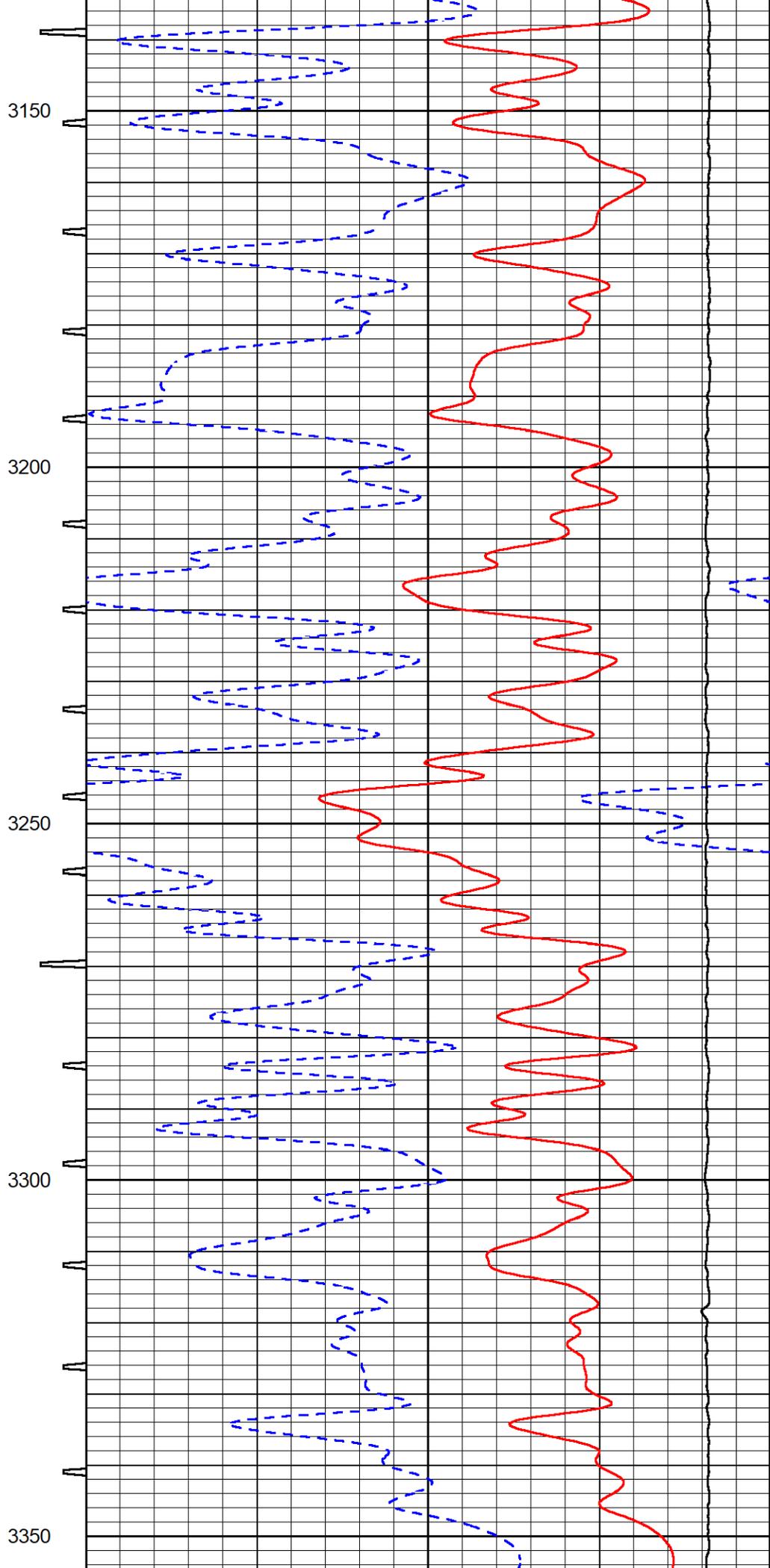
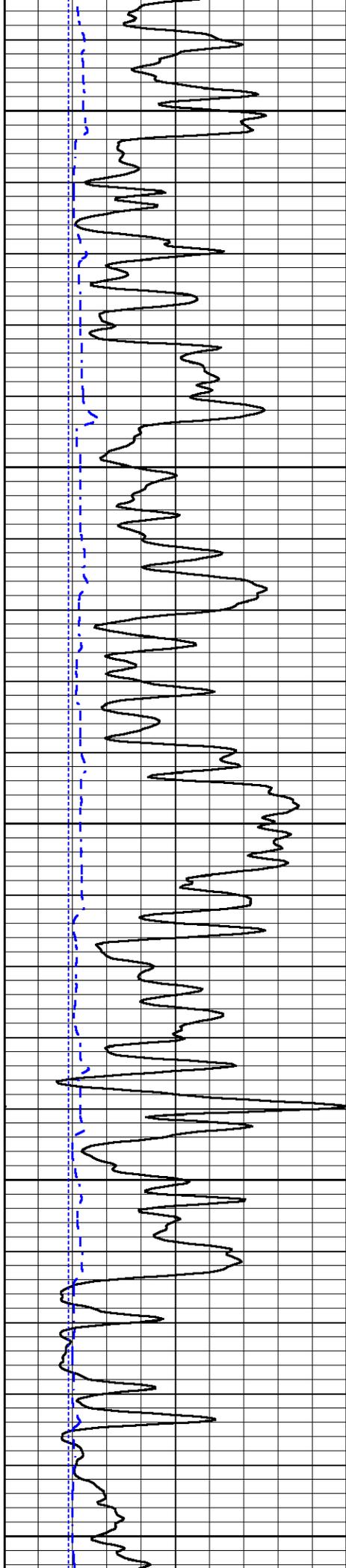


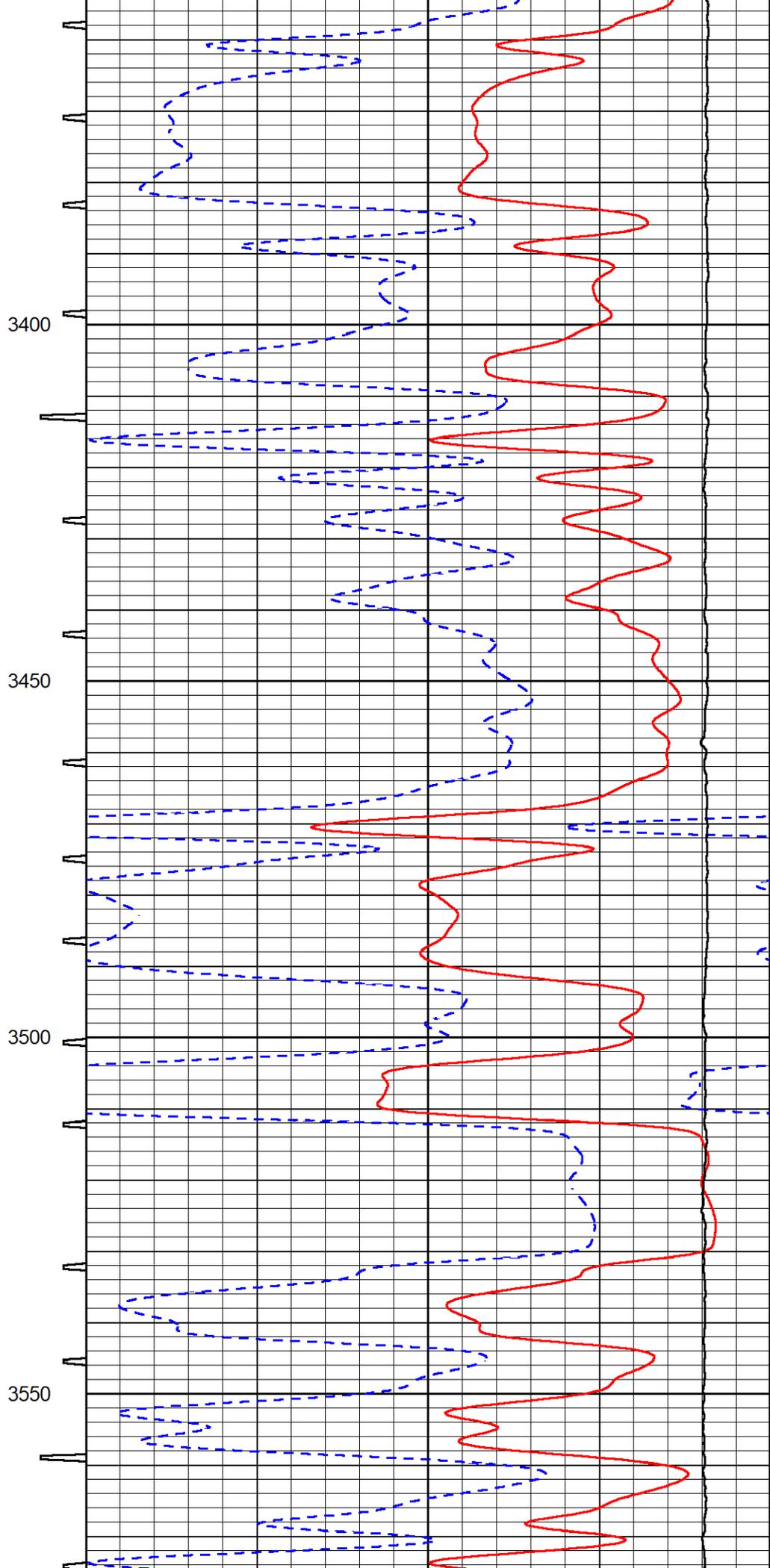
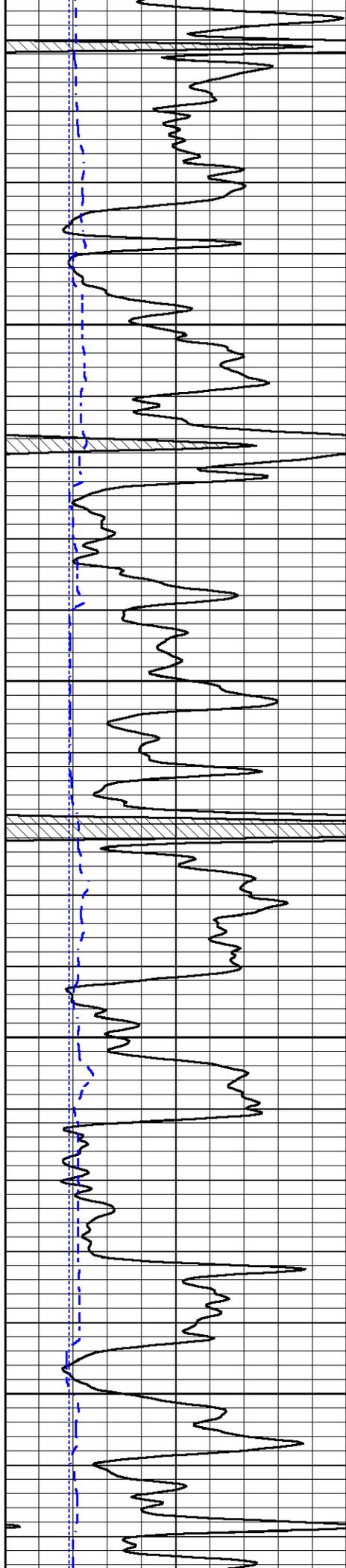


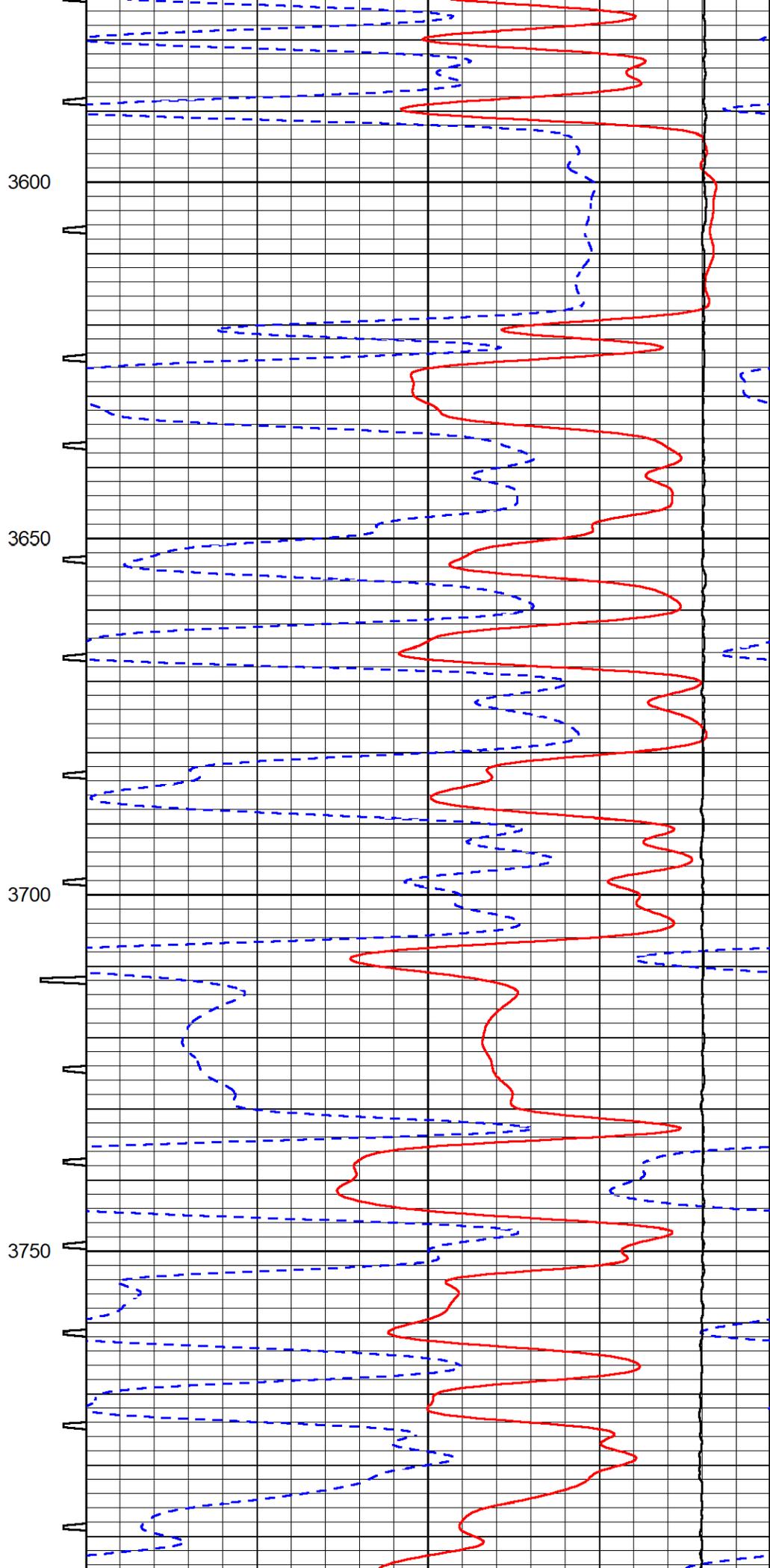
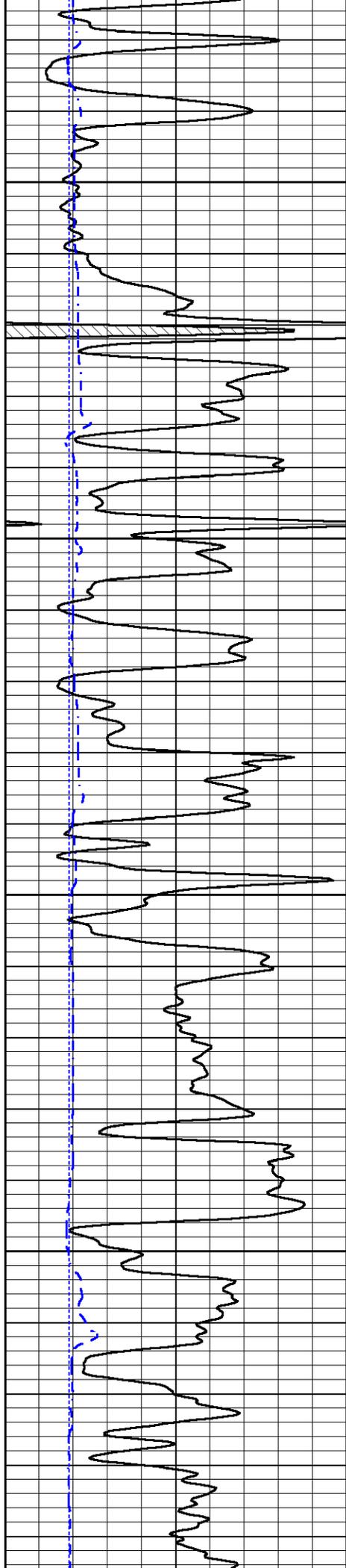


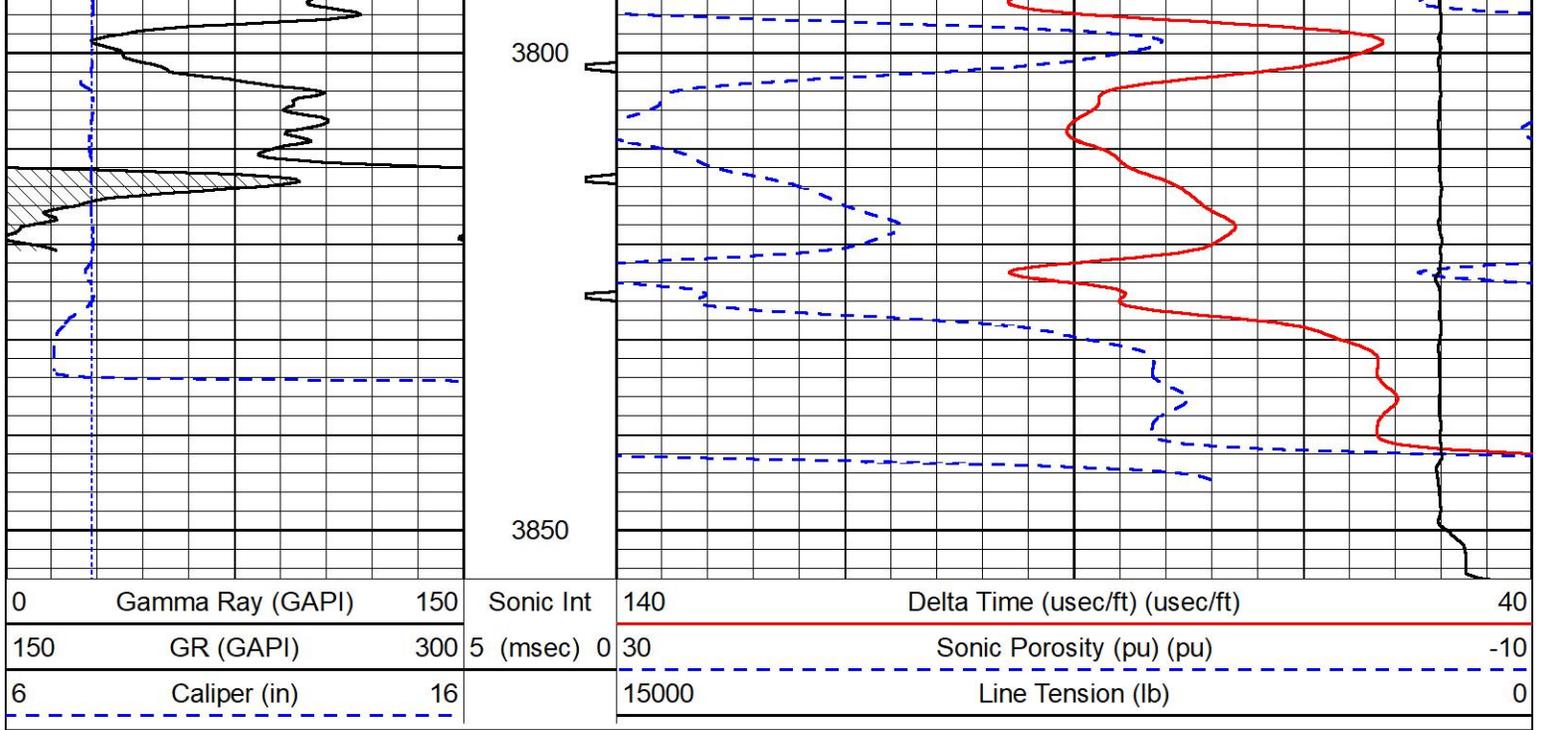












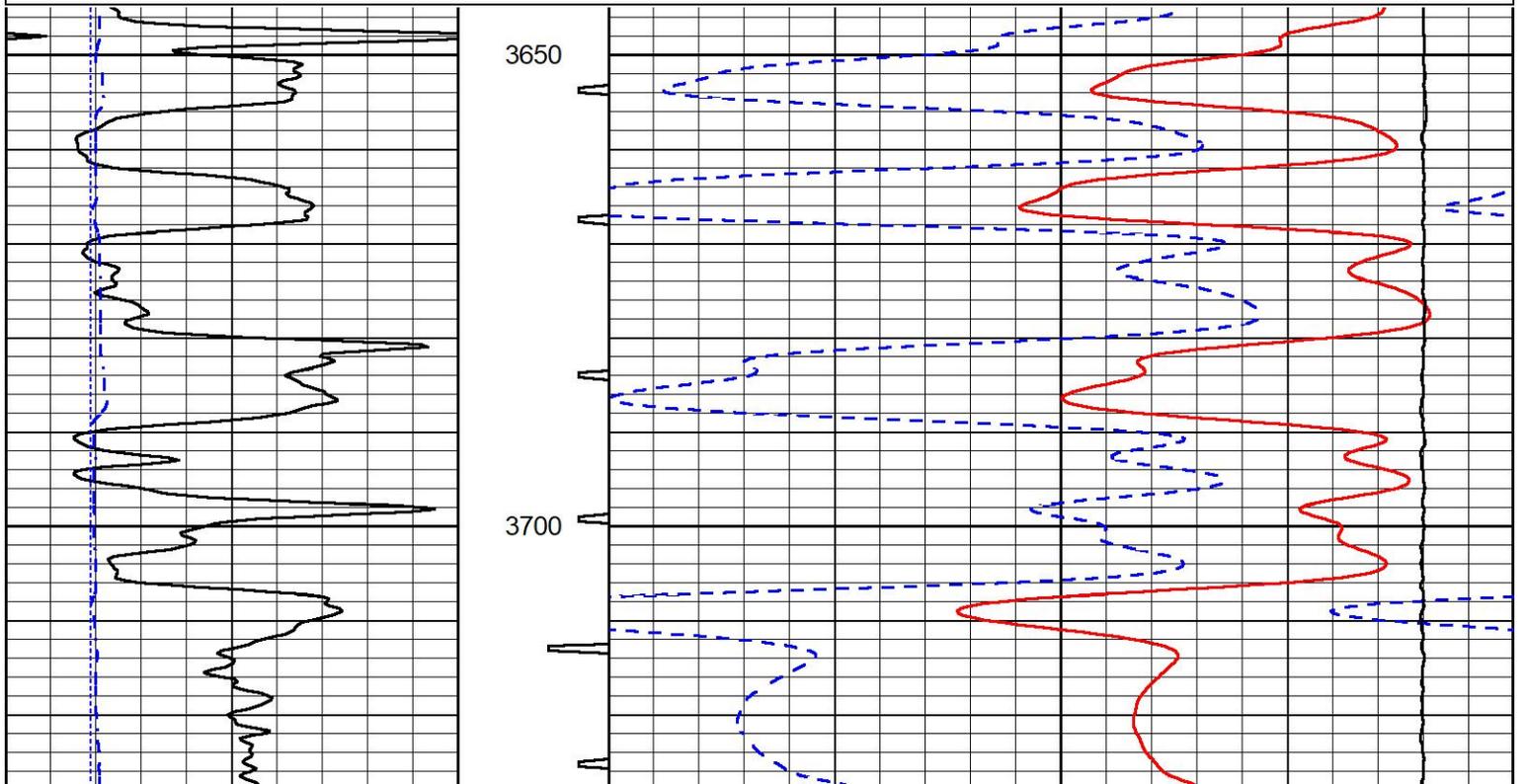
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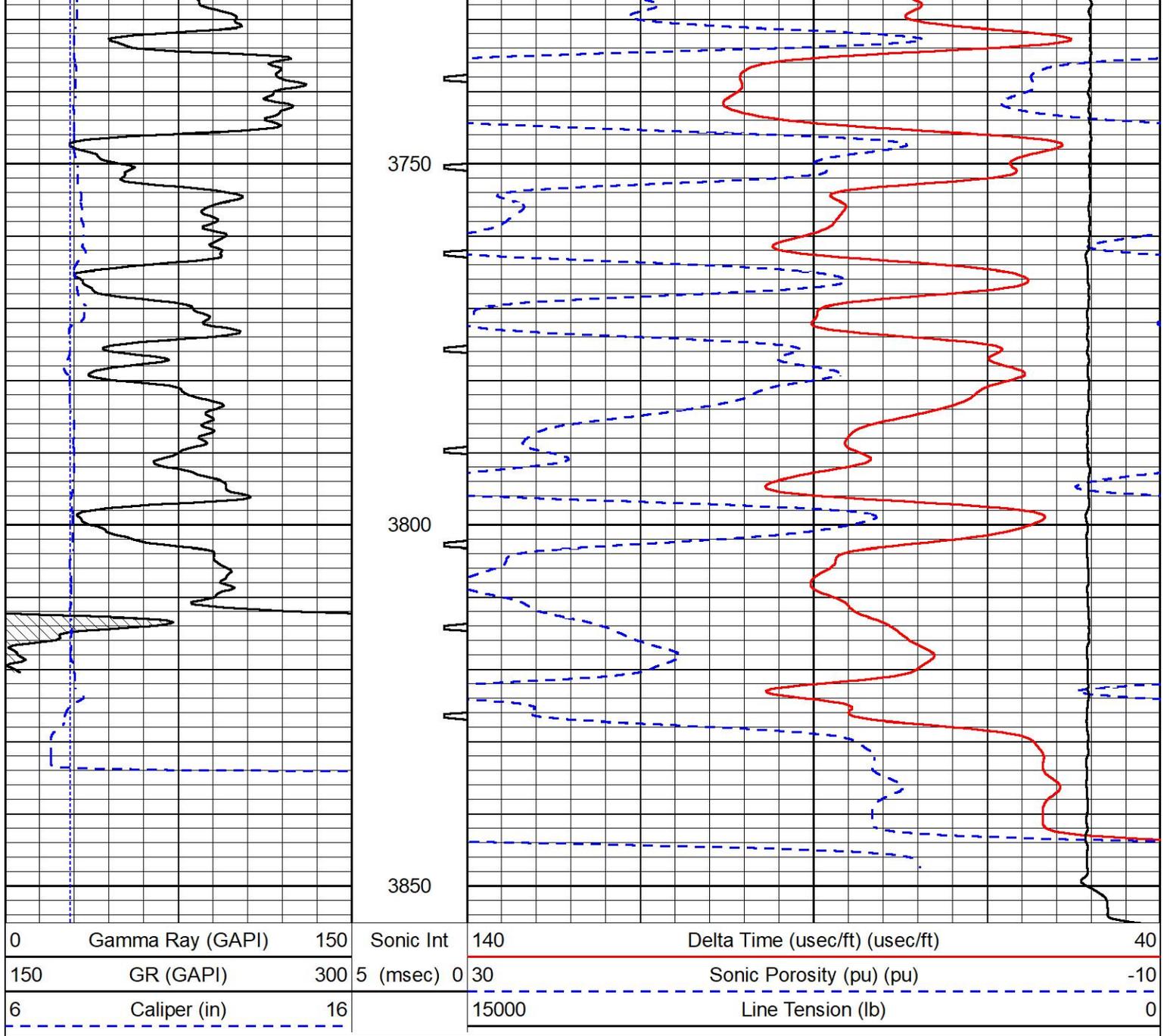
## REPEAT SECTION

### REPEAT PASS

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