



MIDWEST WIRELINE

BOREHOLE COMPENSATED SONIC LOG

Company Berexco, LLC
Well Weinman #1
Field Dayton
County Phillips **State Kansas**

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Location:	API #: 15-147-20760-00-00
620 FSL 1650 FWL	Other Services
SEC 25 TWP 2S RGE 19W	CNL/CDL MEL/DIL
Permanent Datum	Ground Level
Log Measured From	Elevation 2129
Drilling Measured From	Kelly Bushing
	Kelly Bushing
	Elevation
	K.B. 2139
	D.F.
	G.L. 2129

Date	2/25/2022	
Run Number	Two	
Type Log	BHCS	
Depth Driller	3650	
Depth Logger	3642	
Bottom Logged Interval	3630	
Top Logged Interval	250	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	800	
Density	9.3	
Level	Full	
Max. Rec. Temp. F	113	
Operating Rig Time	4 Hours	
Equipment -- Location	P-24 Hays	
Recorded By	C McLaughlin	
Witnessed By	Bryan Bynog	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	273	8.625	23	0	273
Two	7.875	273					

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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.

Phillipsburg
 5 West to 500 Rd,
 4 North to Limestone Rd
 1/4 East, North into

Log Measured From: Kelly Bushing 10 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew Engineer: C McLaughlin Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: Bryan Bynog 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	25.42 25.42 25.42		ML-GO (0001G)	5.00	3.50	100.00
			CENT-PENGO (4-PENGO)	4.25	3.00	70.00
WVF4 WVF1	12.50 12.50		SLT-PENGO (603)	15.92	3.50	300.00
WVF3 WVF2	10.50 10.50					
			CENT-PENGO (3-PENGO)	4.25	3.00	70.00

Dataset: berexco_weinman #1.db: field/well/sonmel/pass3.1
 Total length: 29.42 ft
 Total weight: 540.00 lb
 O.D.: 3.50 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\berexco_weinman #1.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	113	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	240	10	Off	3642

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

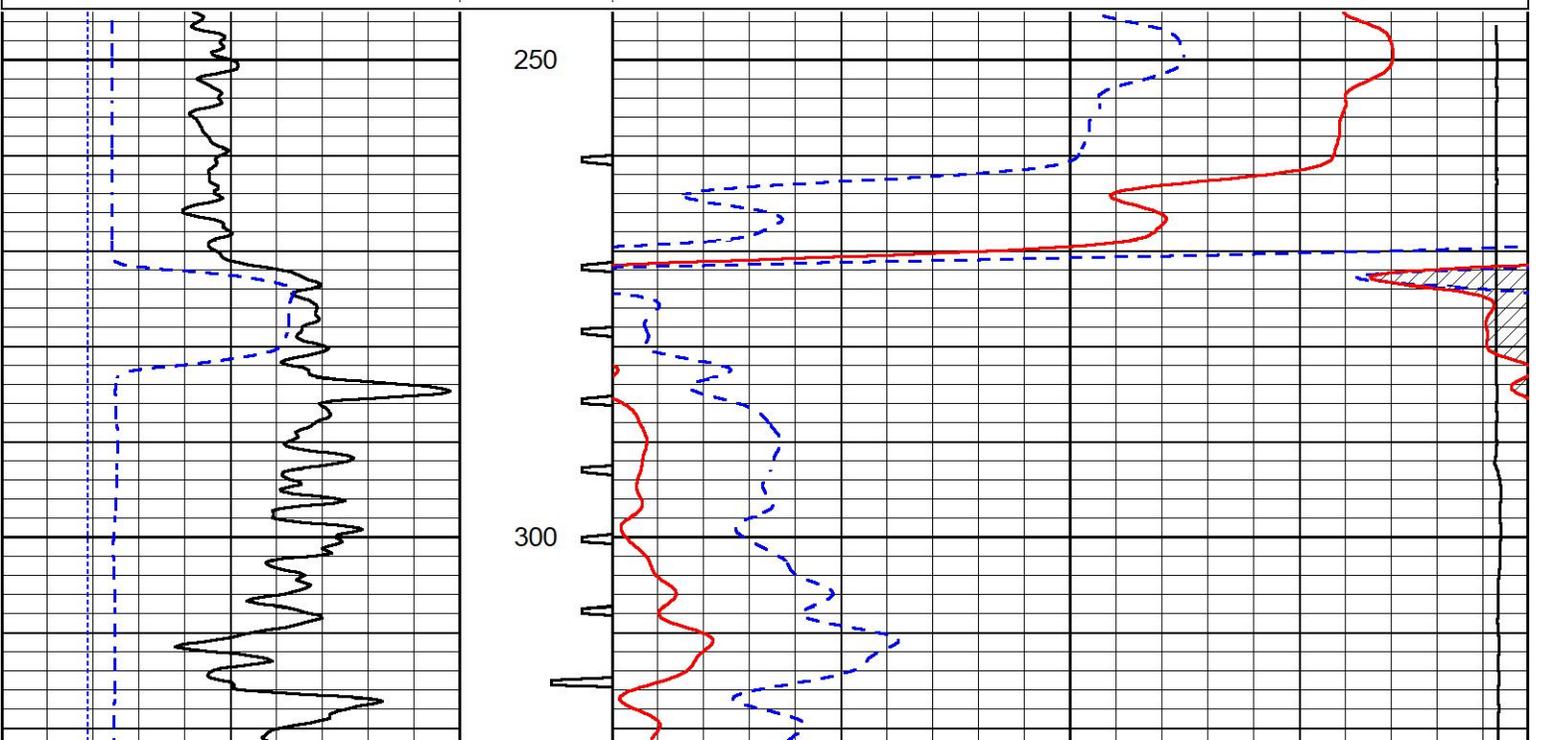


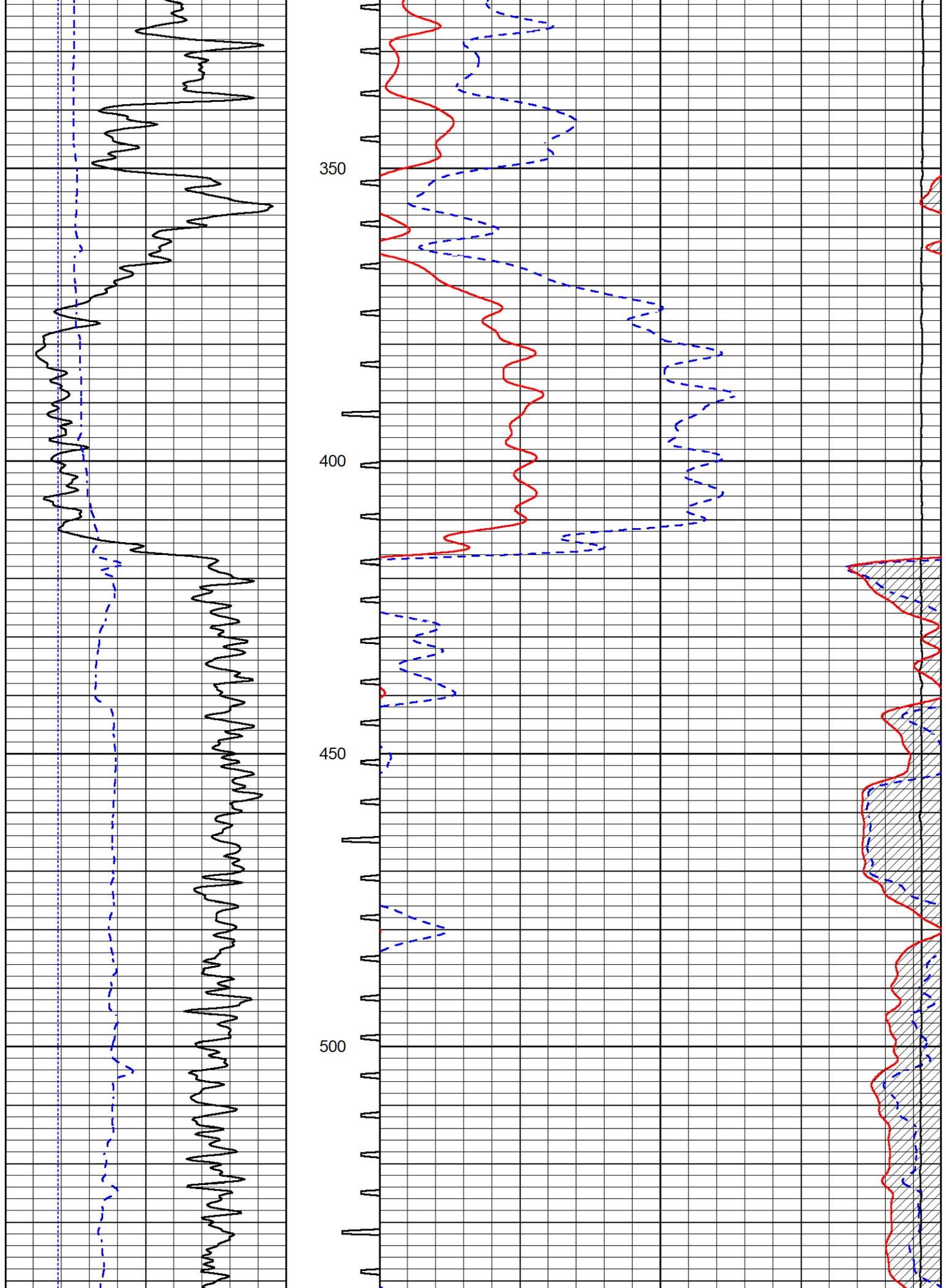
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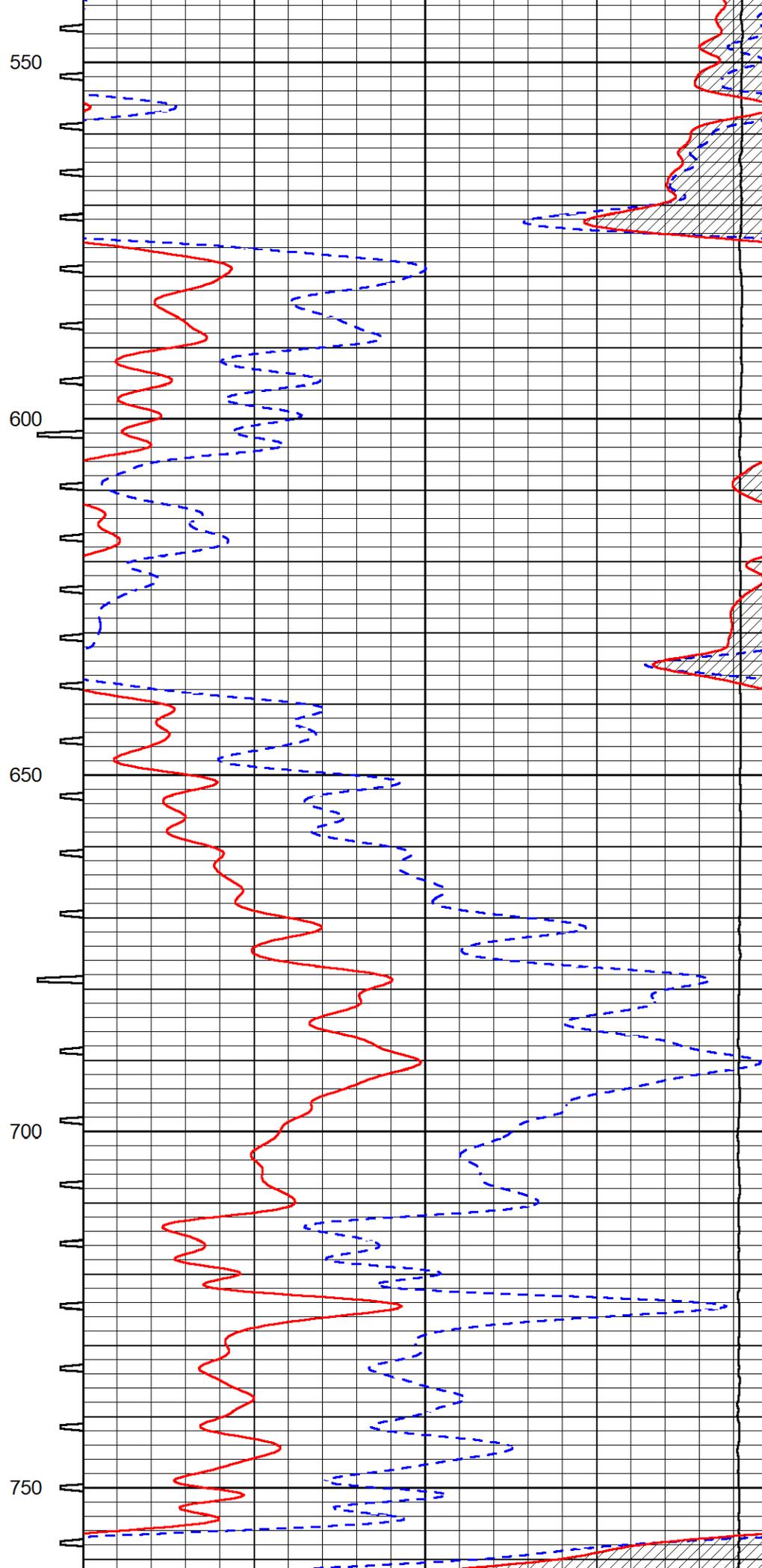
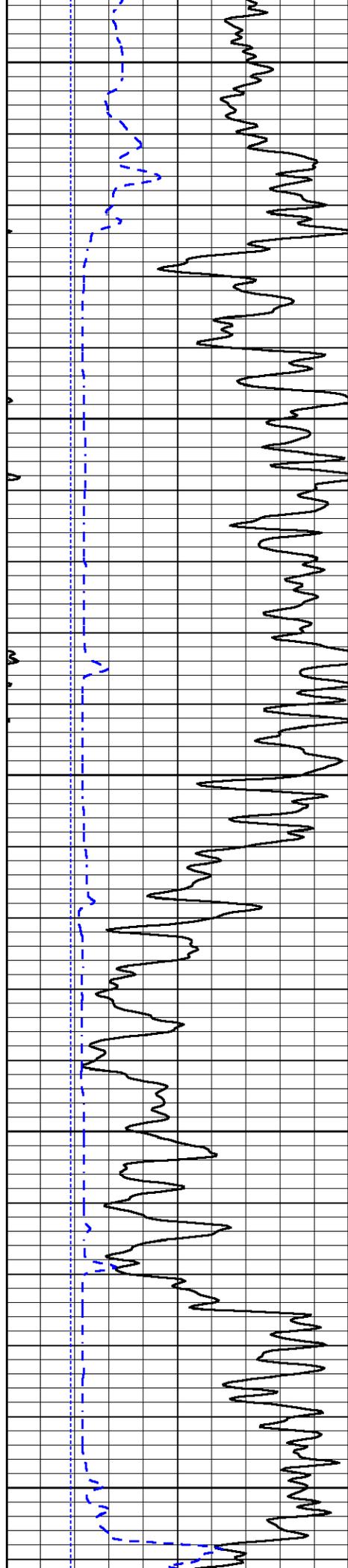
MAIN PASS

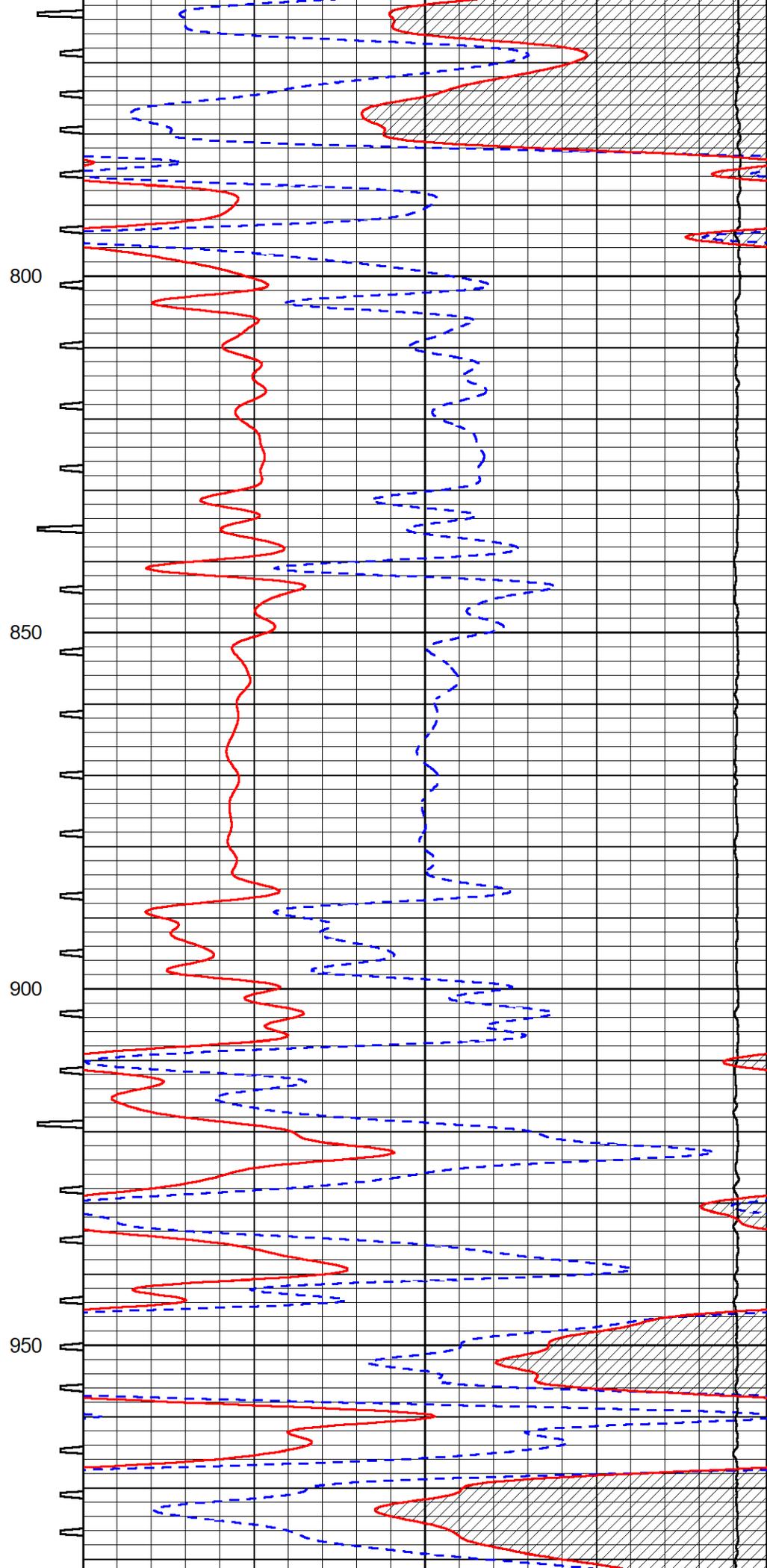
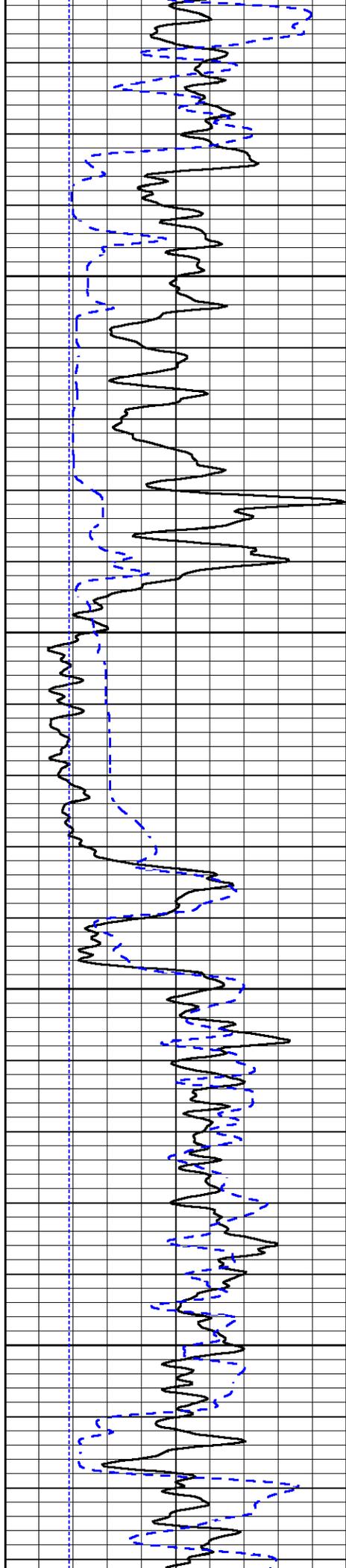
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 Presentation Format _sonic
 Dataset Creation Fri Feb 25 21:54:39 2022
 Charted by Depth in Feet scaled 1:240

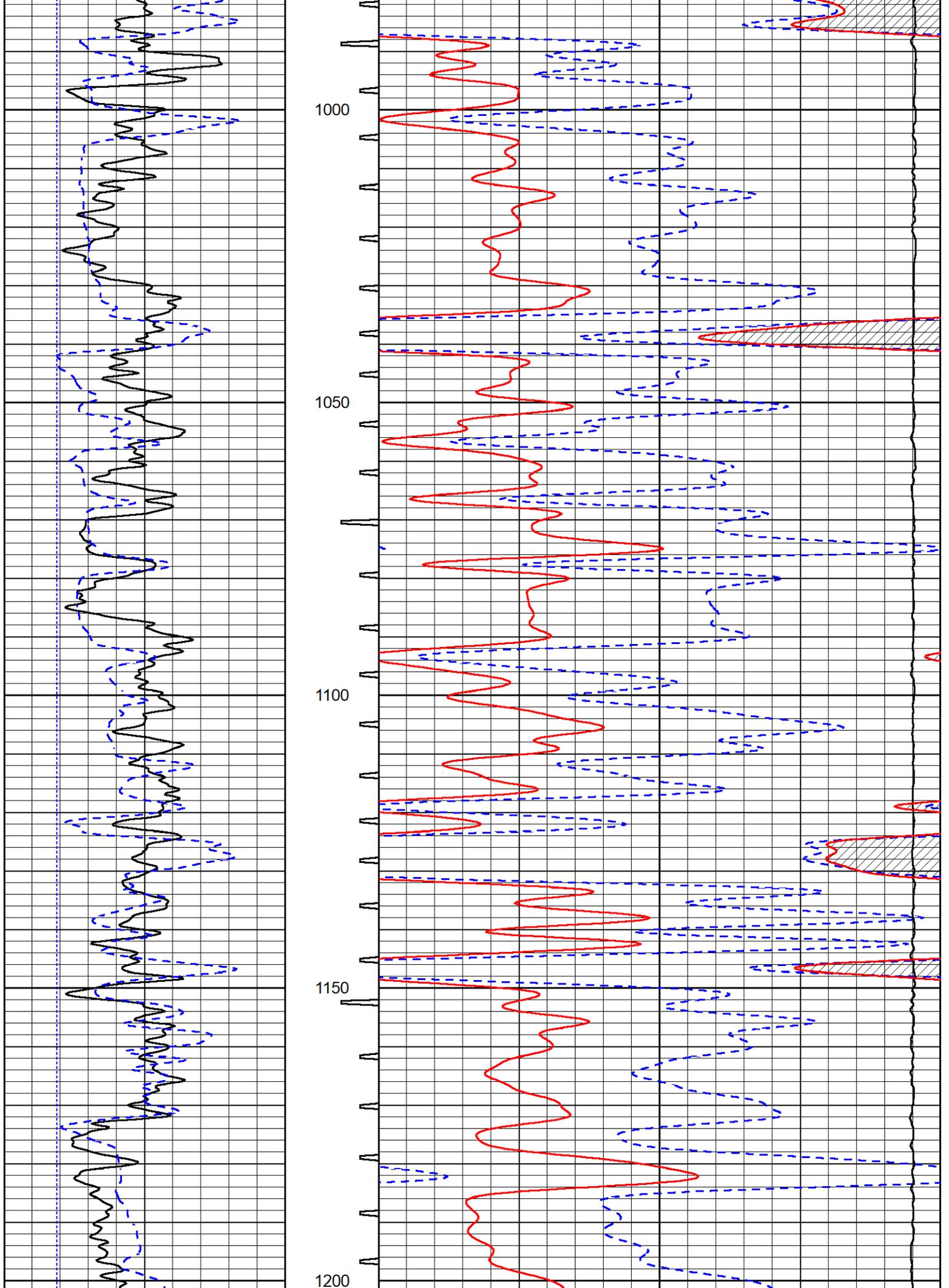
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu)	-10
6	Caliper (in)	16		15000	Line Tension (lb)	0

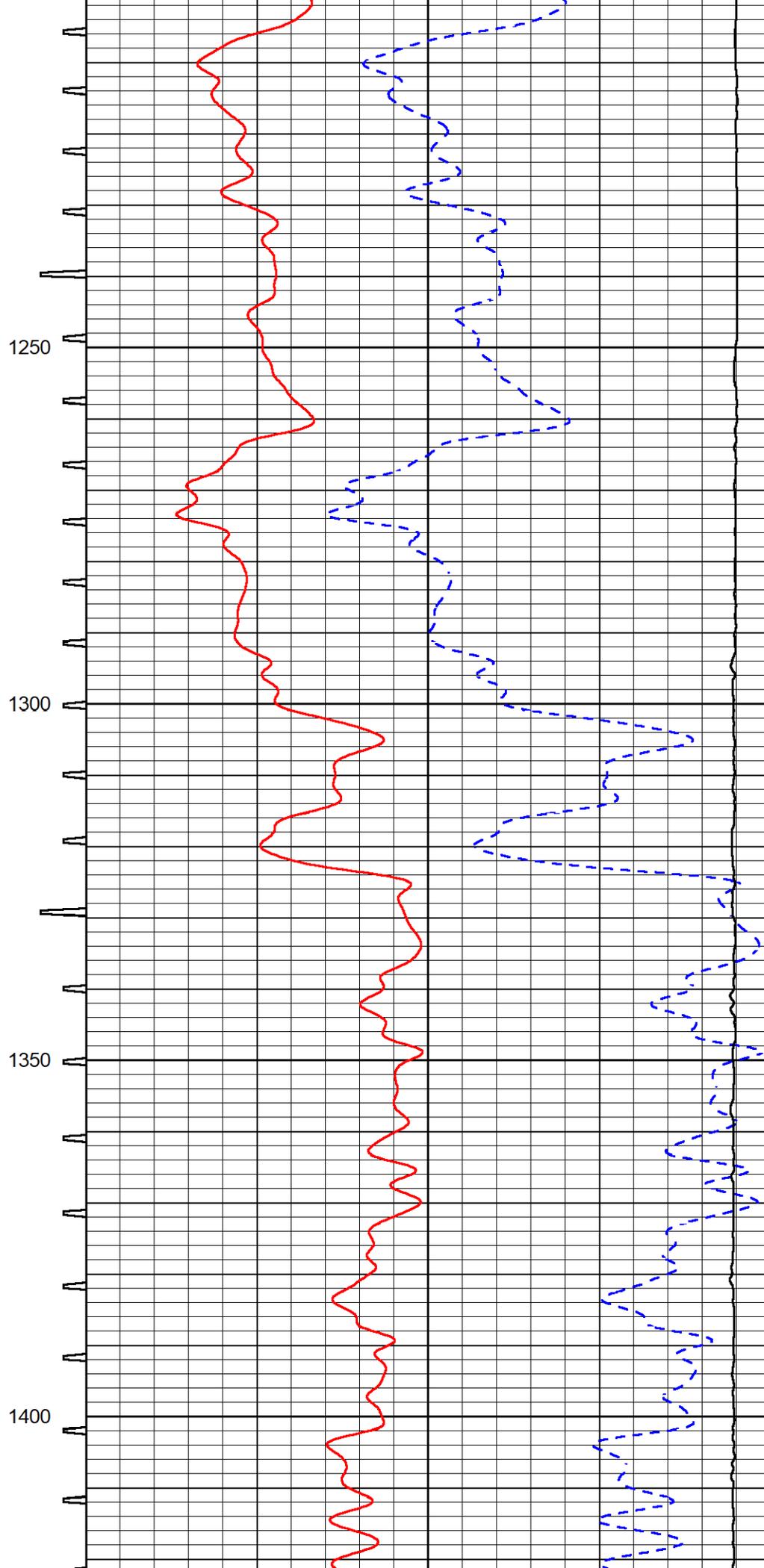
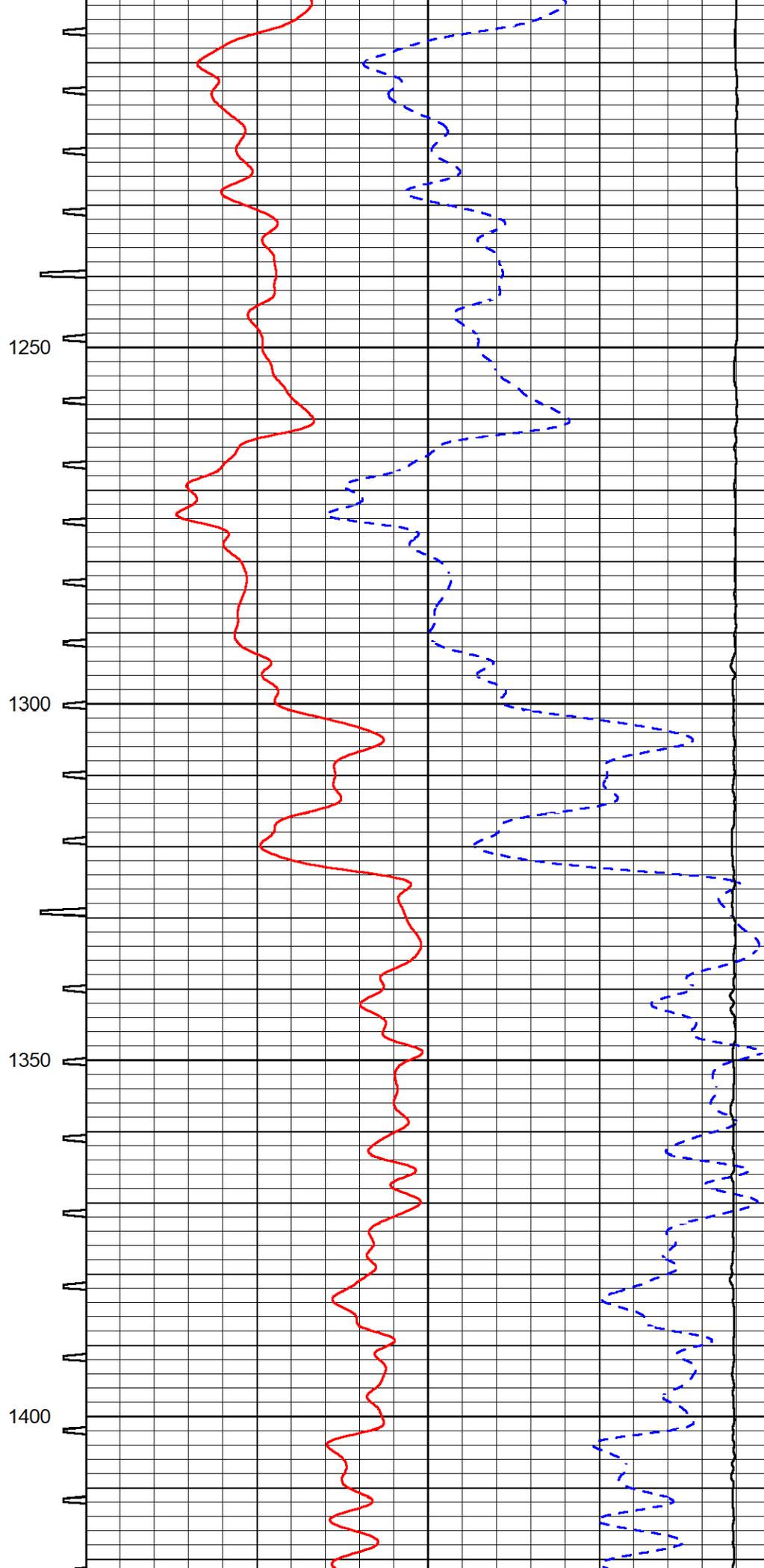
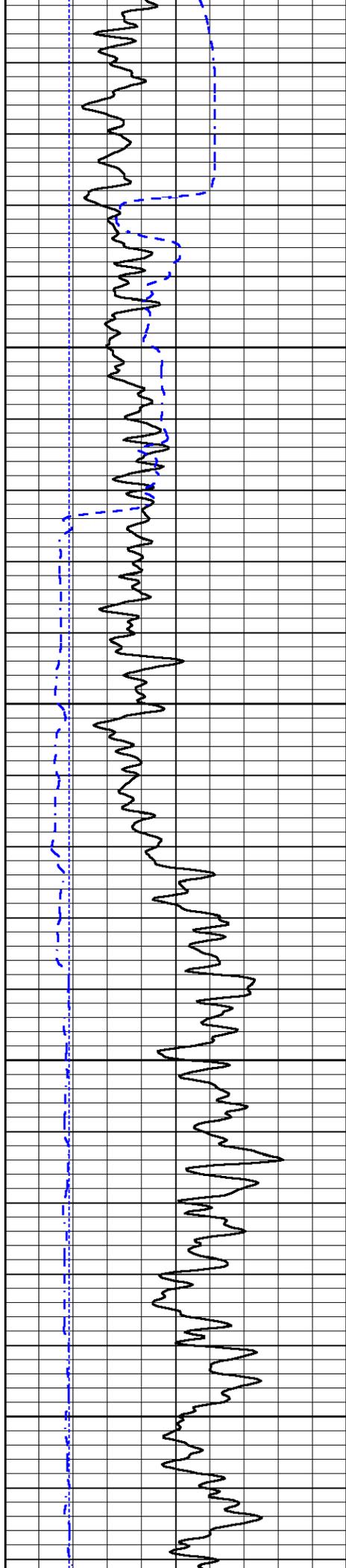


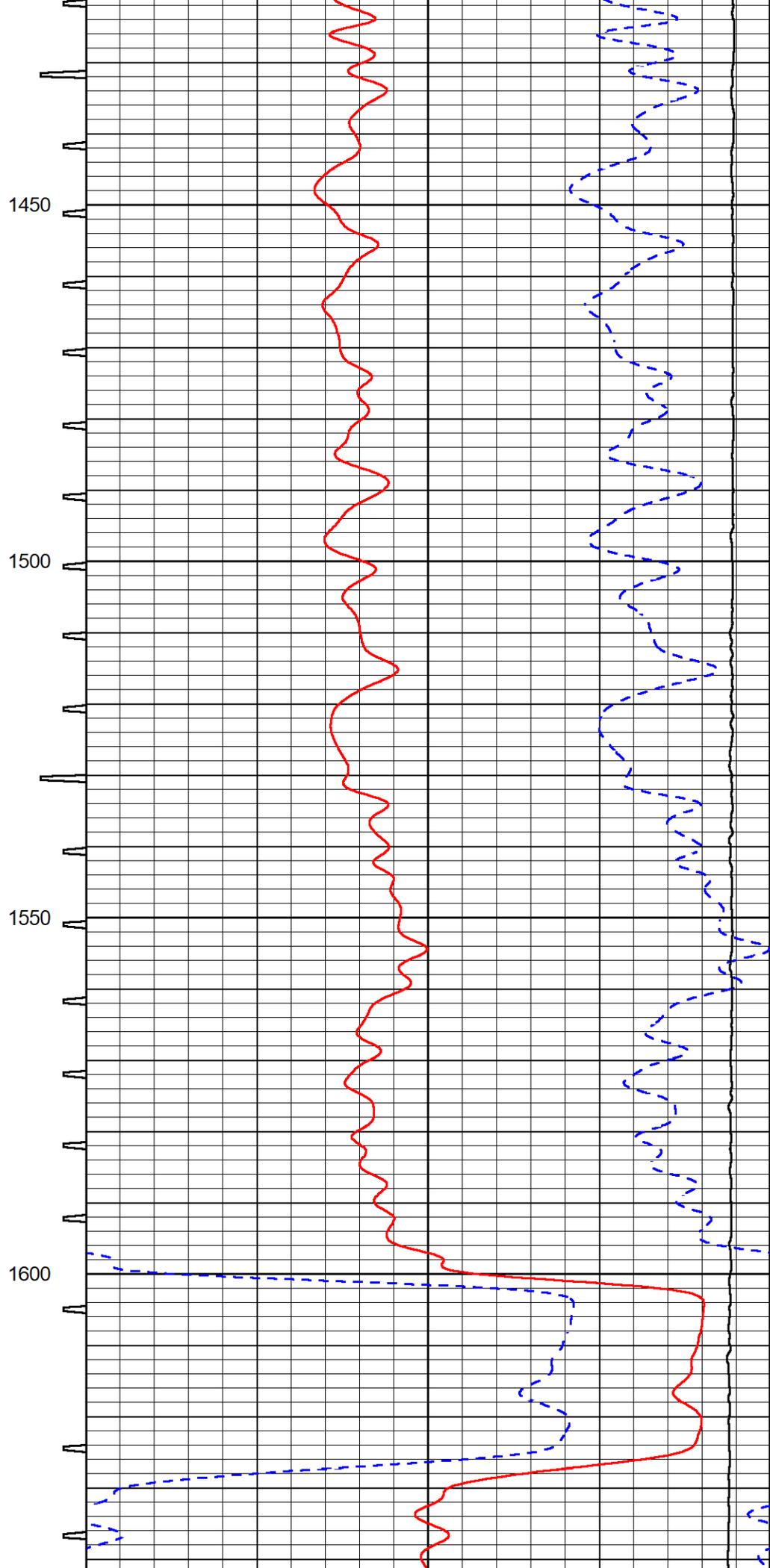
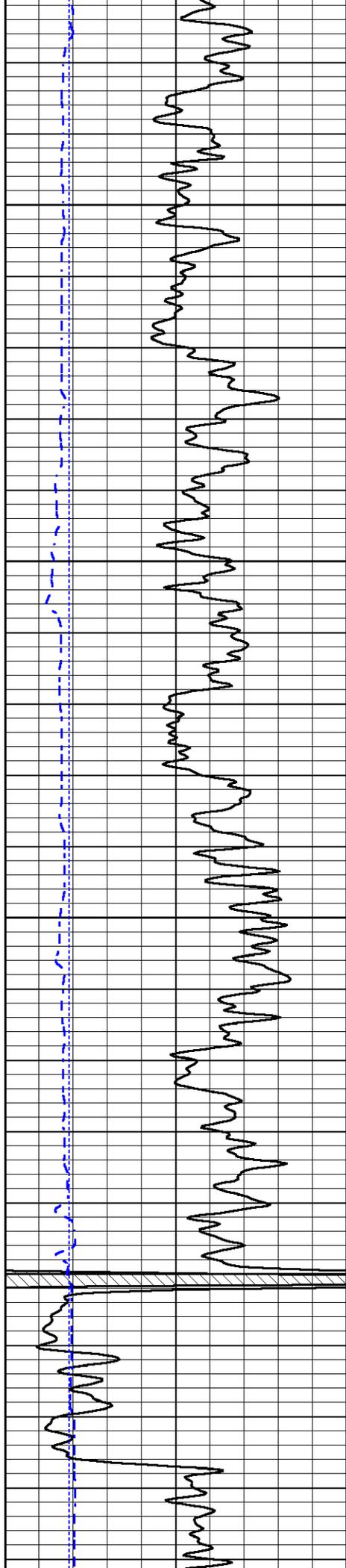


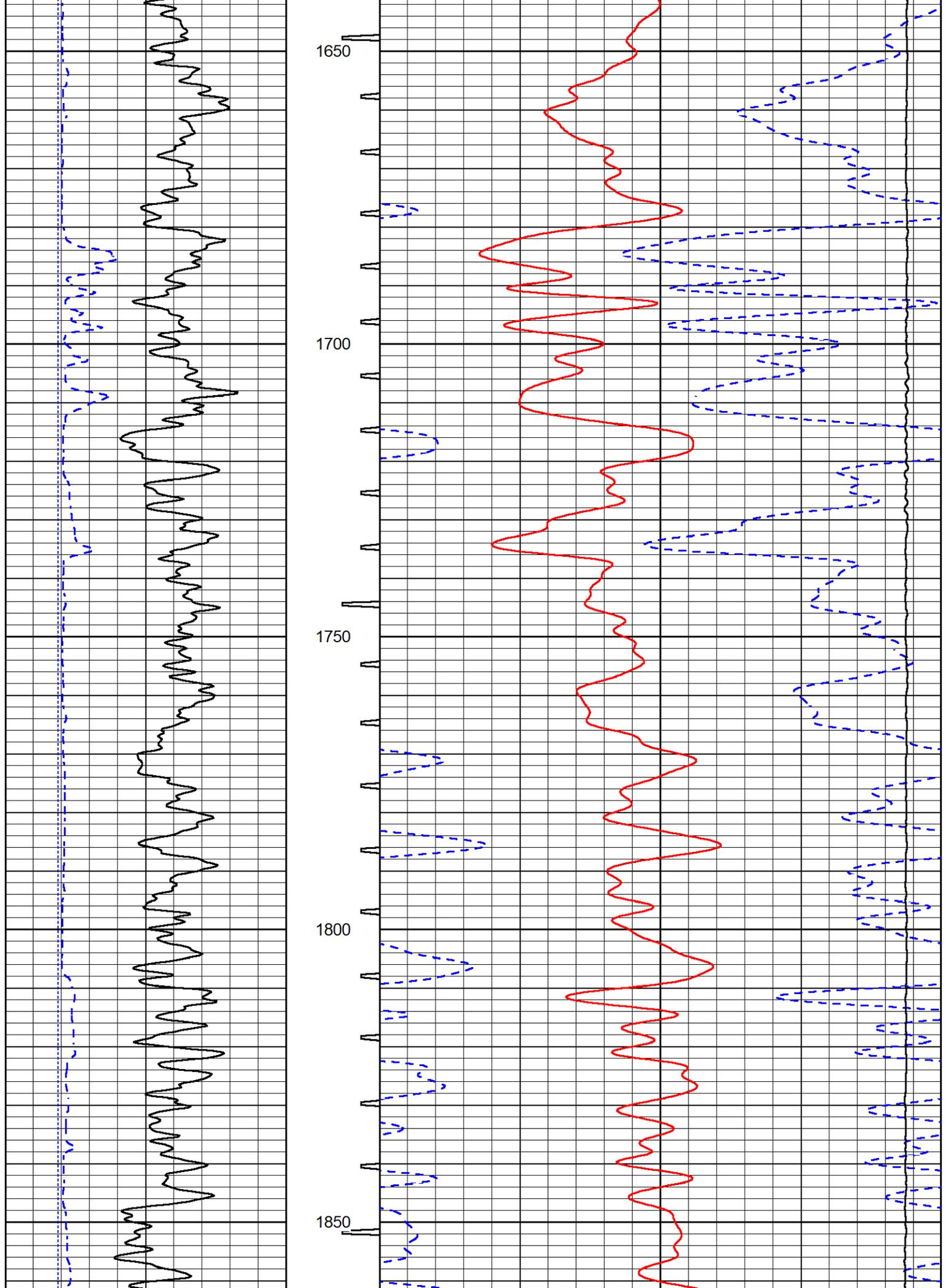


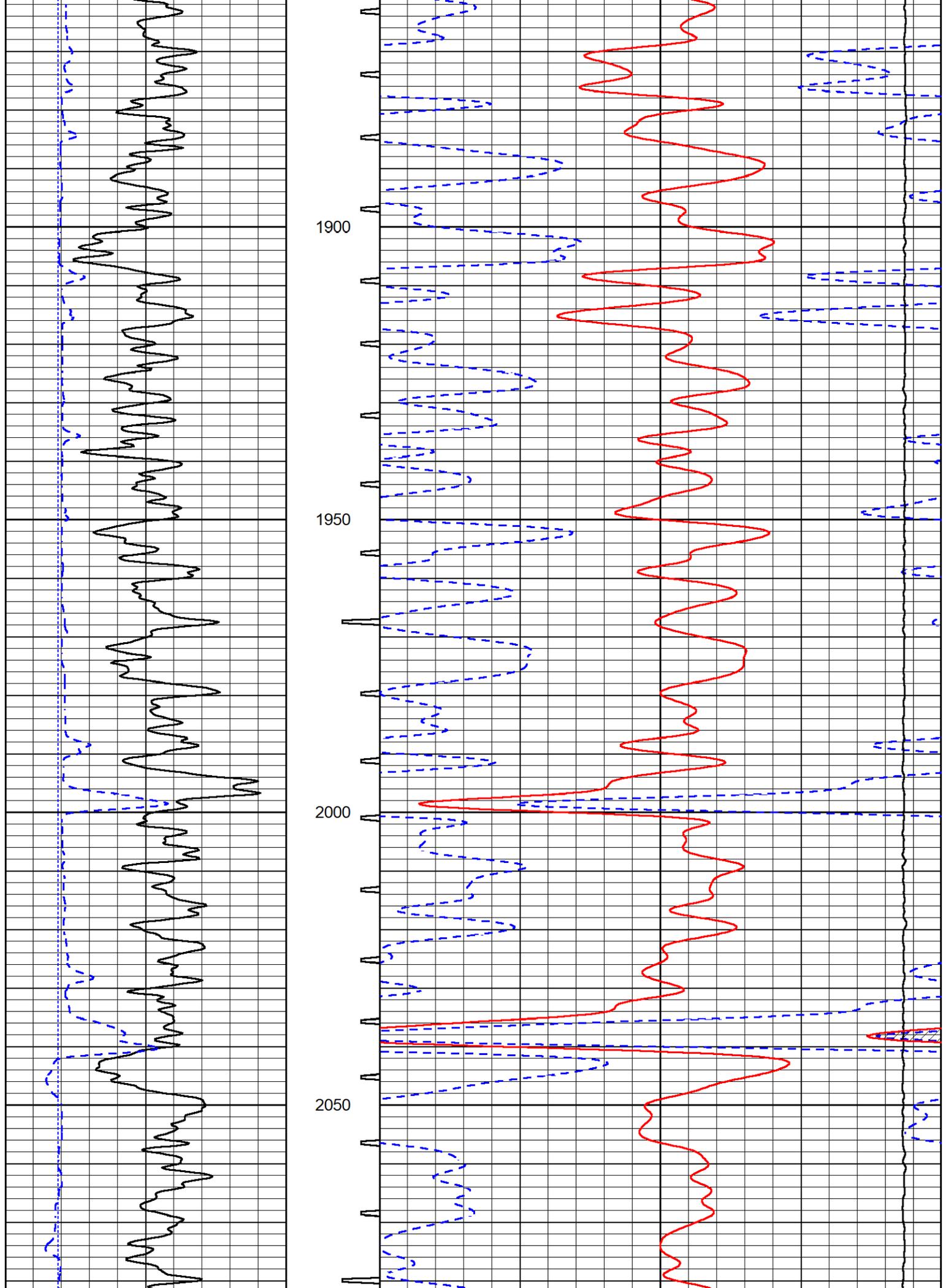


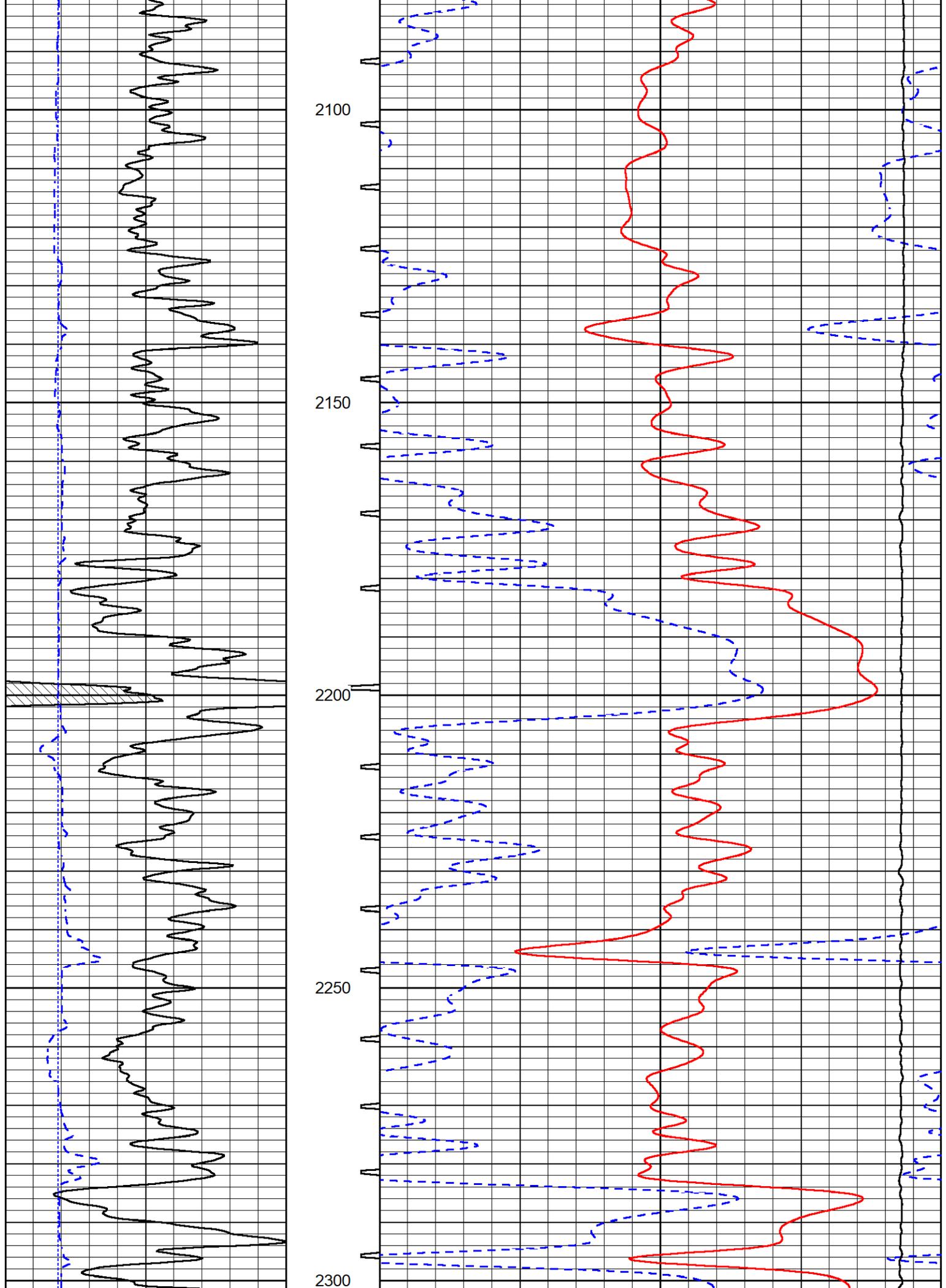


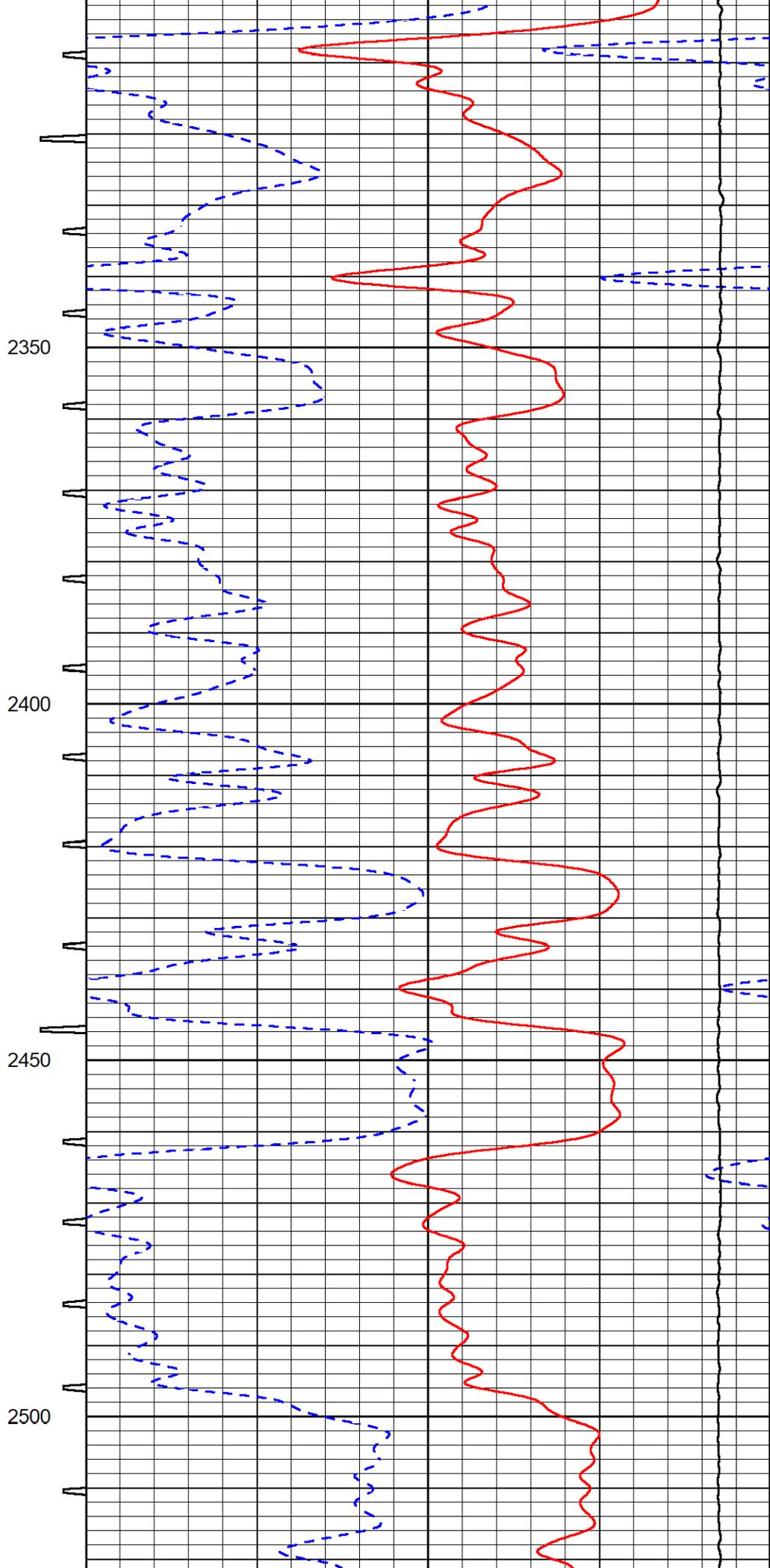
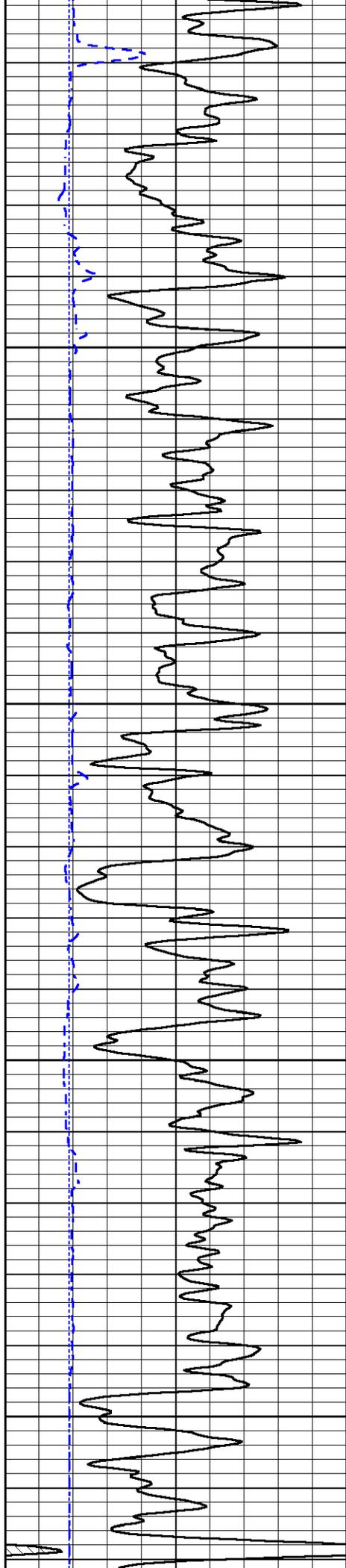


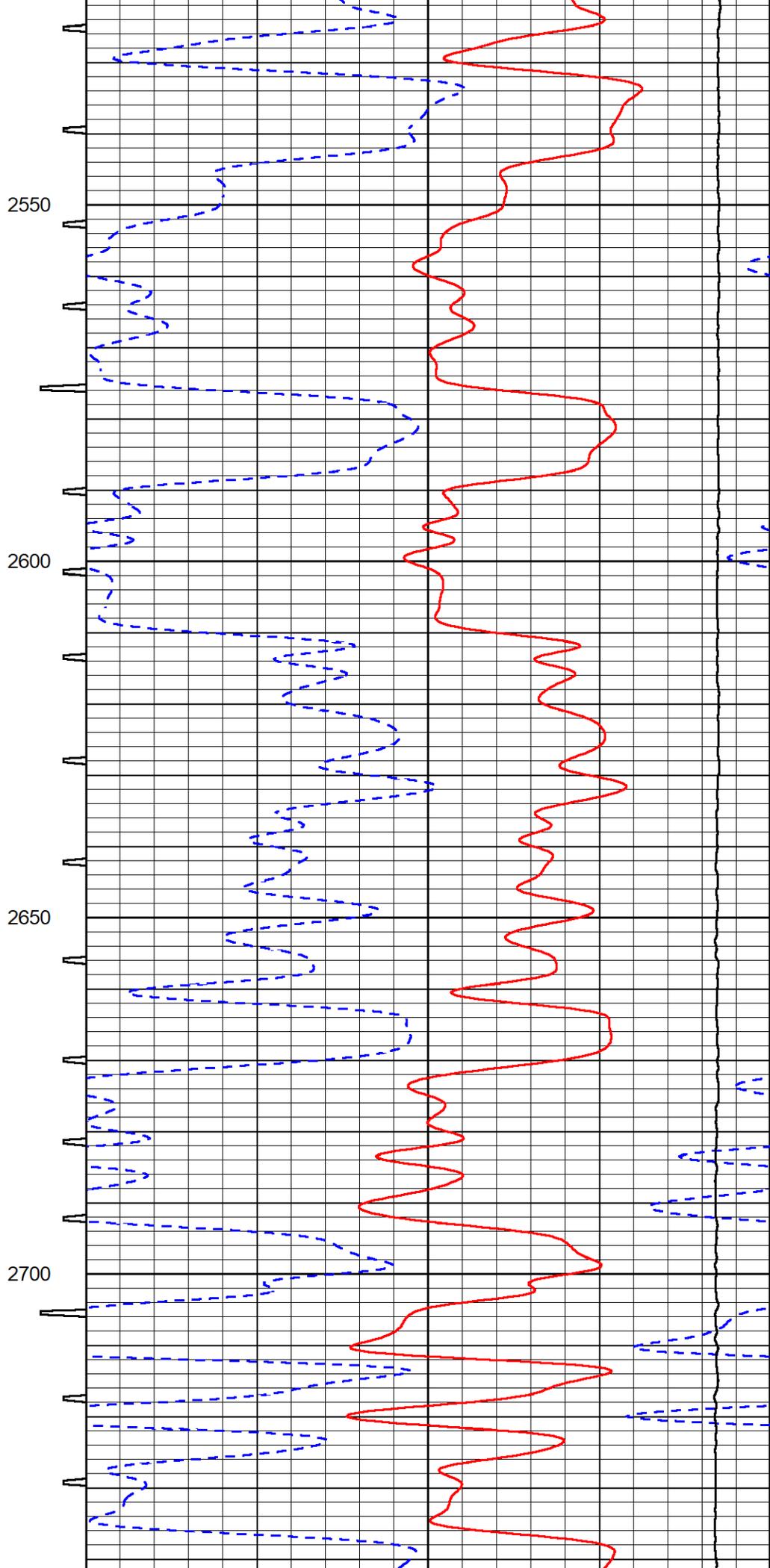
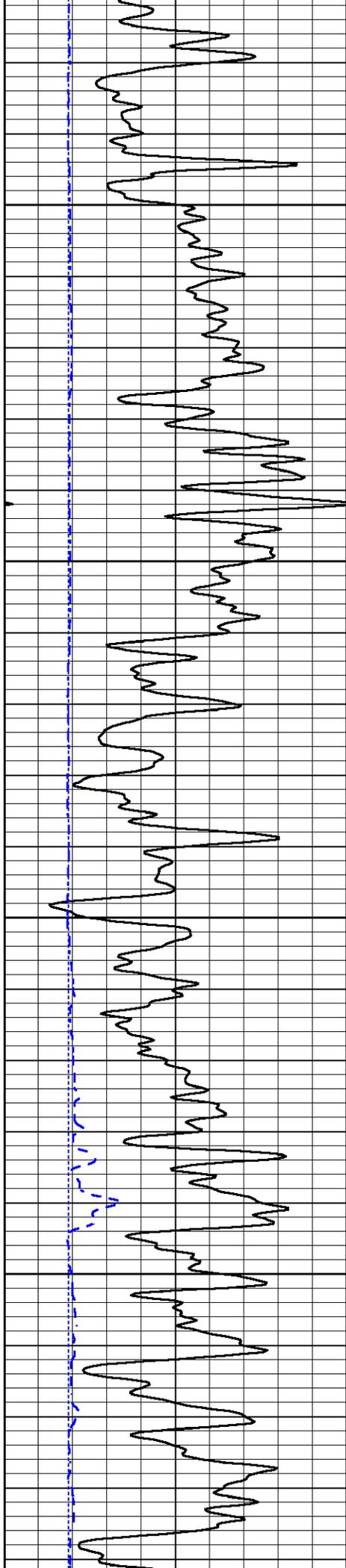


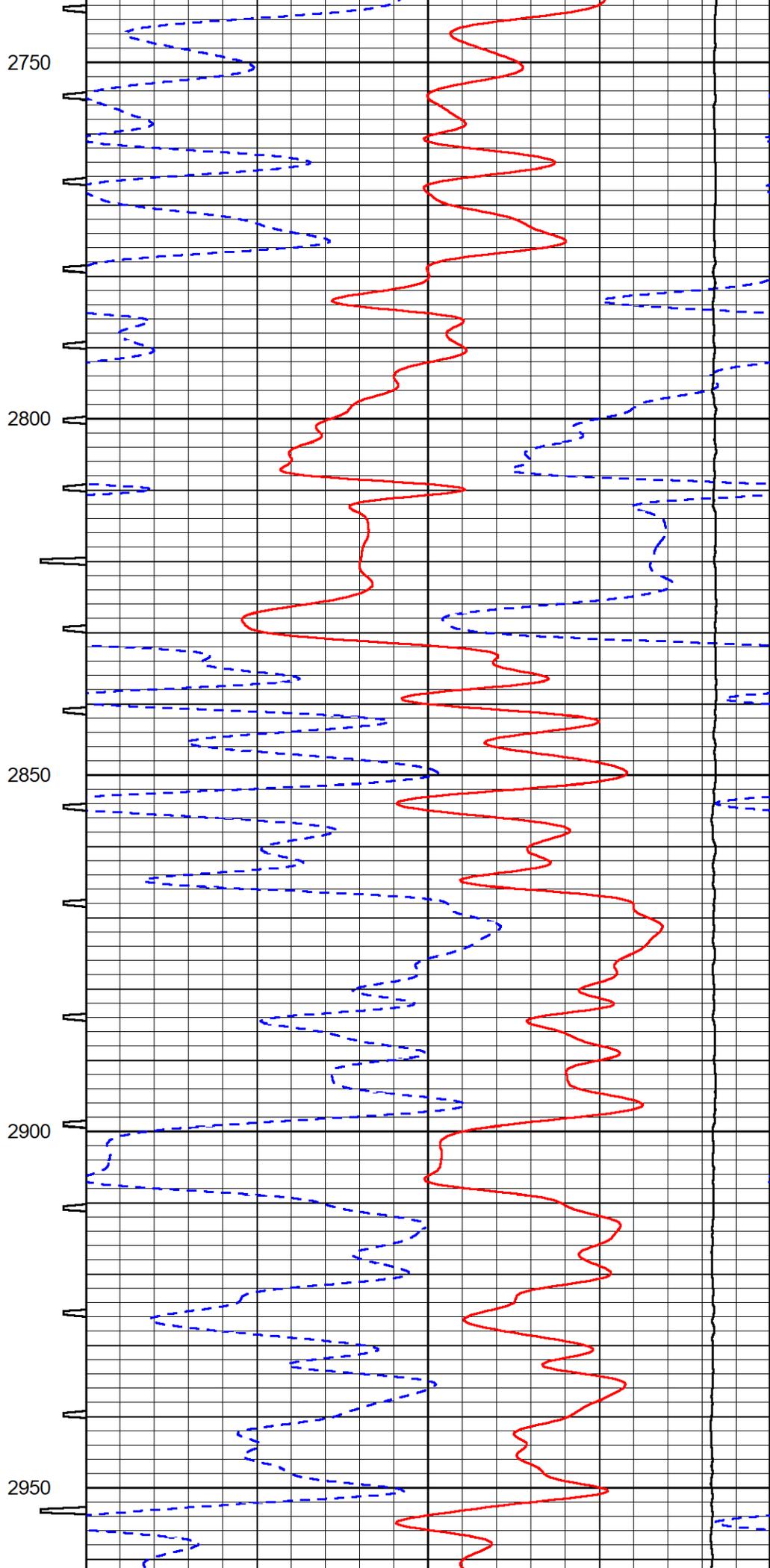
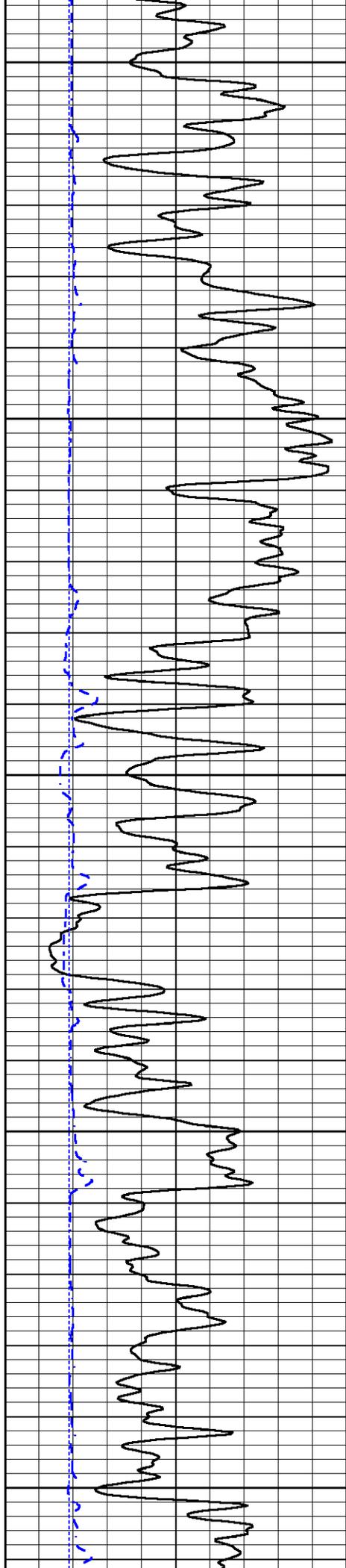


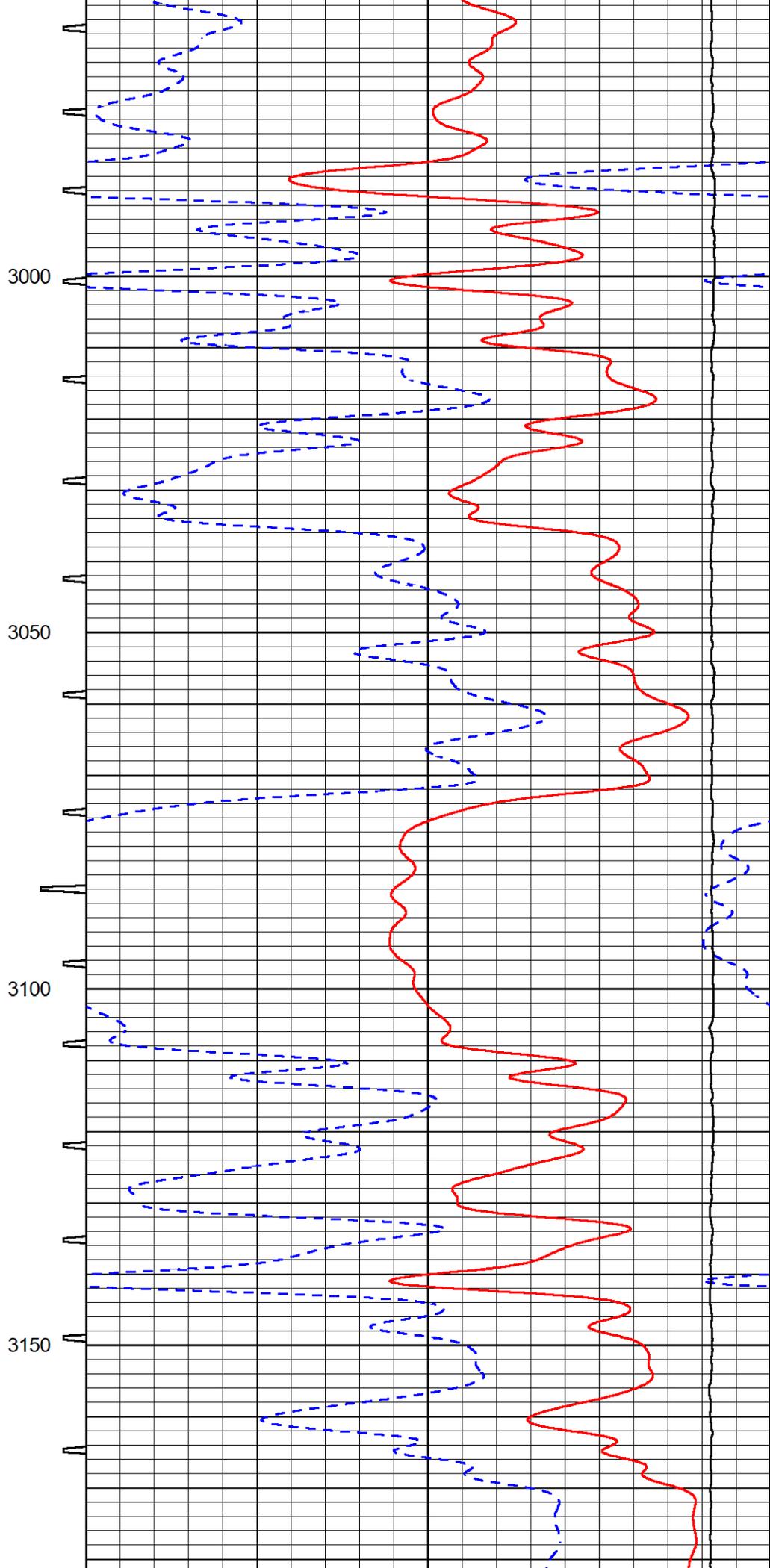
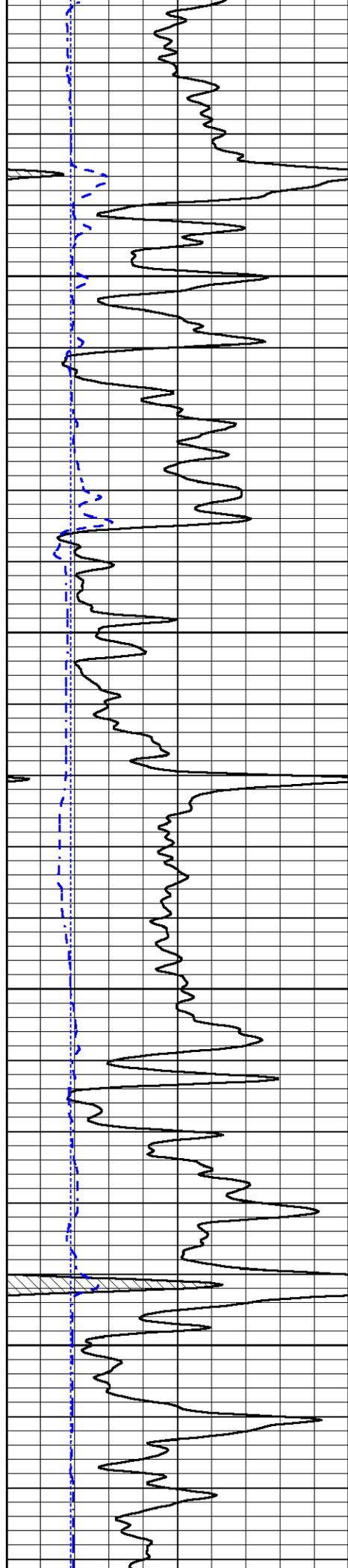


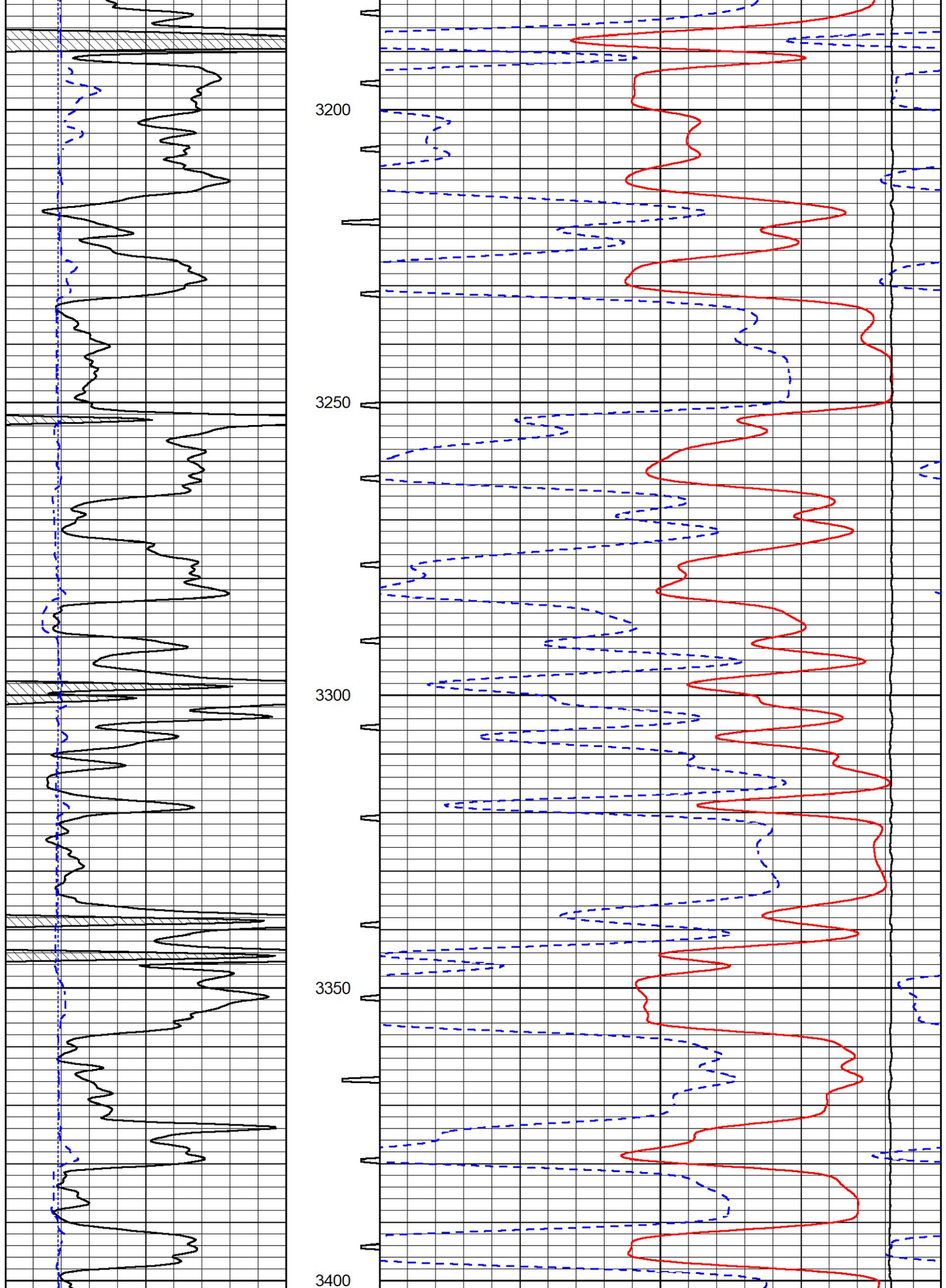


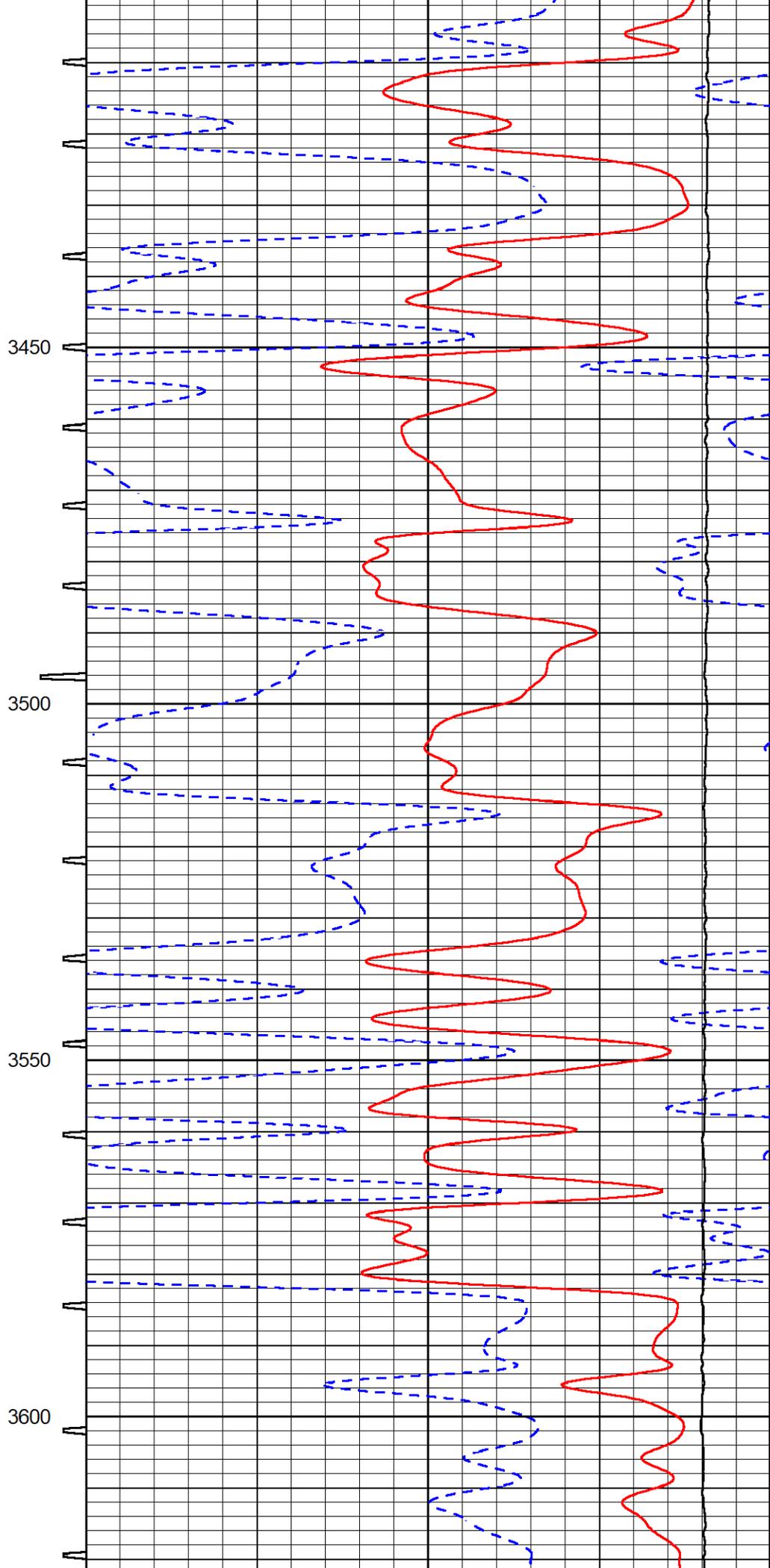
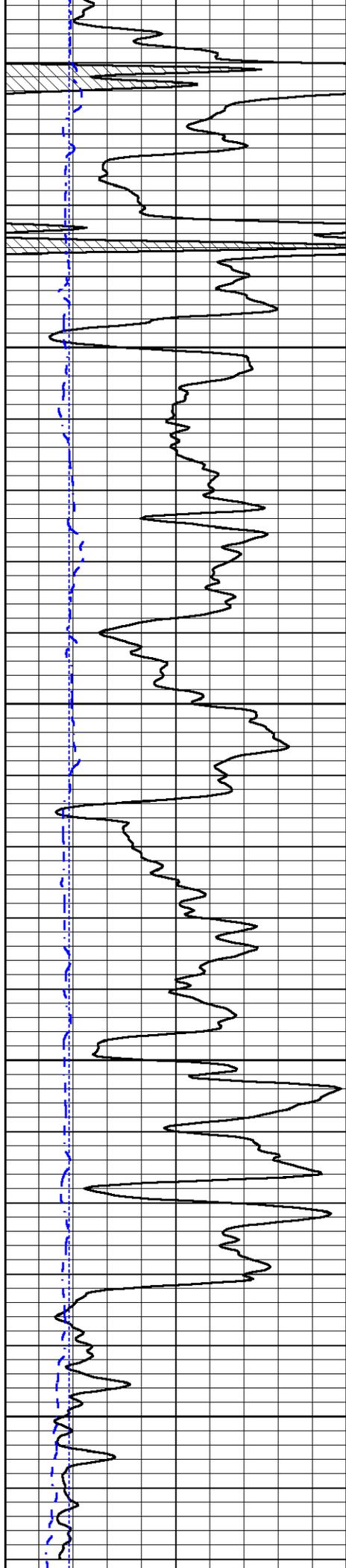


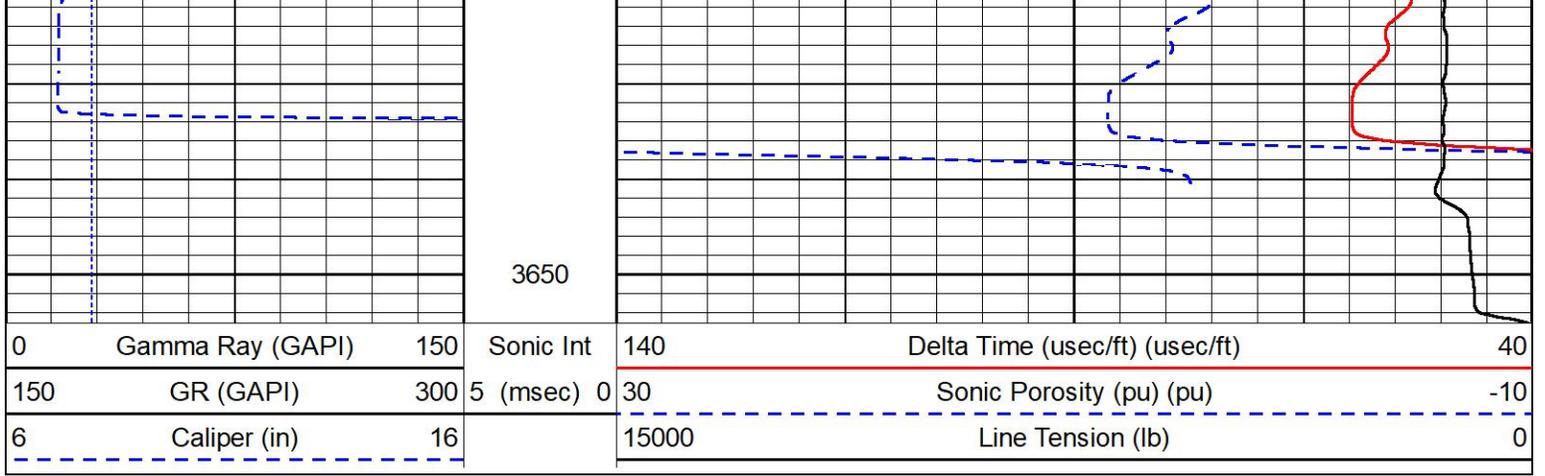












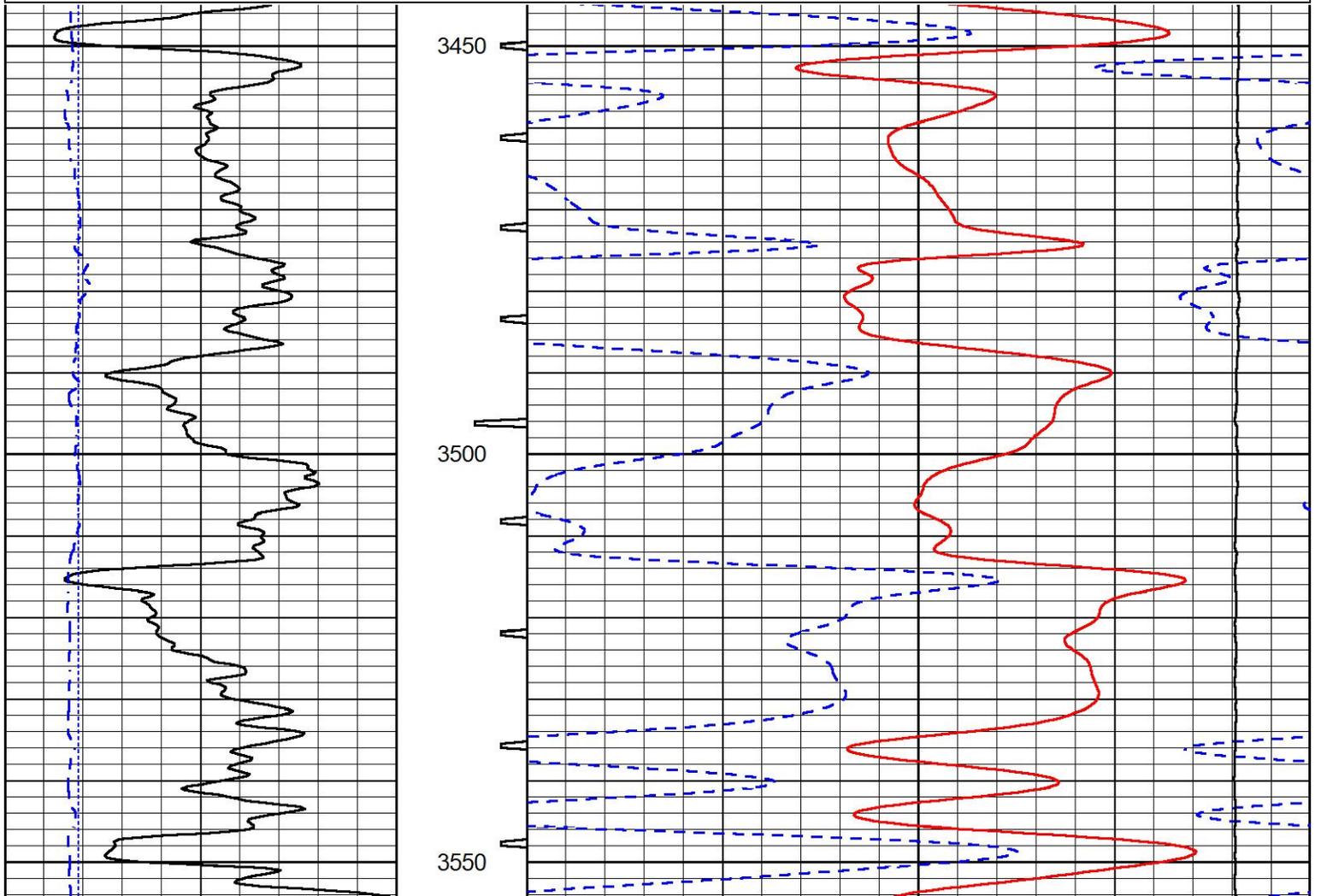
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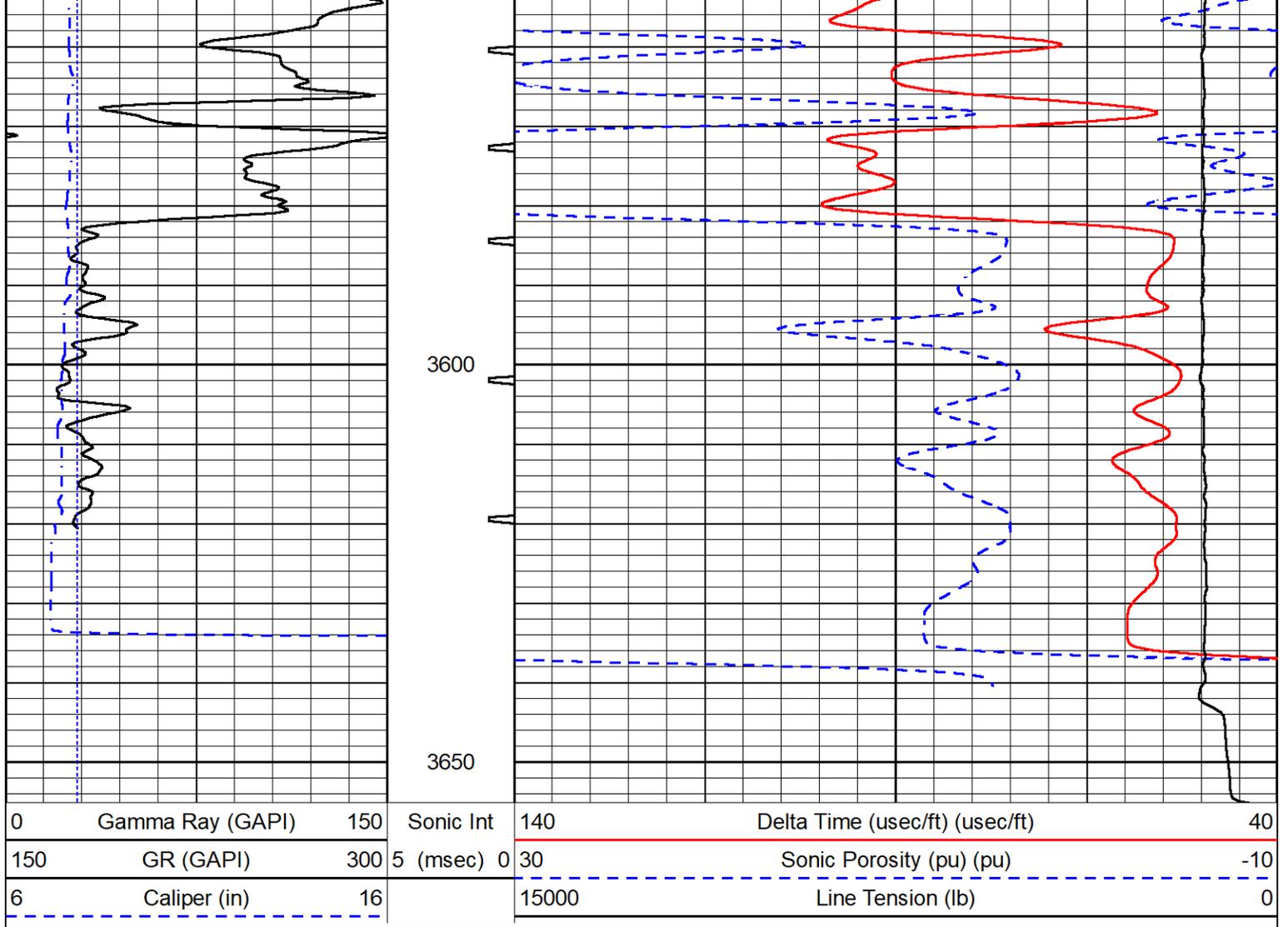
REPEAT SECTION

REPEAT PASS

Database File berexco_weinman #1.db
 Dataset Pathname stack/pass2.1
 Presentation Format _sonic
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 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





Calibration Report

Database File berexco_weinman #1.db
 Dataset Pathname stack/pass3.1
 Dataset Creation Fri Feb 25 21:54:39 2022

Dual Induction Calibration Report

Serial-Model: 501 HT-M&W
 Surface Cal Performed: Wed Feb 23 19:44:50 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-41.500
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.320	-35.000

Compensated Density Calibration Report

Serial-Model: 305-05-M&W
 Source #: 20762B
 Master Calibration Performed: Mon Jan 24 19:14:33 2022

Master Calibration

Density Far Detector Near Detector

Magnesium	1.755	g/cc	8758.11	9709.36	cps
Aluminum	2.630	g/cc	1513.14	5652.54	cps

Spine Angle = 72.88

Density/Spine Ratio = 0.476

	Size		Reading
Small Ring	4.00	in	1.75
Large Ring	14.00	in	1.38

Compensated Neutron Calibration Report

Serial-Model:	207-MW-M&W
Source #:	100046B
Master Calibration Performed:	Mon Nov 29 15:06:24 2021

Master Calibration

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:	101	
Tool Model:	M&W	
Performed:	Mon Jan 24 19:14:46 2022	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



Company	Berexco, LLC
Well	Weinman #1
Field	Dayton
County	Phillips
State	Kansas