



**BOREHOLE COMPENSATED
SONIC LOG**

Pioneer Energy Services

Company MURFIN DRILLING COMPANY, INC.
Well POPP NO. 1-14
Field GENIE
County SHERIDAN
State KANSAS

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Field GENIE
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Location: API #: 15-197-21447-00-00
1160' FNL & 1365' FEL
SEC 14 TWP 9S RGE 26W
Permanent Datum GROUND LEVEL Elevation 2597'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services
DIL/MEL
CNL/CDL
Elevation
K.B. 2602'
D.F. N/A
G.L. 2597'

Date	4/18/2018						
Run Number	TWO						
Type Log	BHGS						
Depth Driller	4183'						
Depth Logger	4183'						
Bottom Logged Interval	4172'						
Top Logged Interval	200'						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	2400						
Density	9.2						
Level	FULL						
Max. Rec. Temp. F	118 DEG/F						
Operating Rig Time	4 HOURS						
Equipment -- Location	108 HAYS						
Recorded By	J. HENRICKSON						
Witnessed By	ROBERT HENDRIX						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	219'	8.625"	23#	0	219'
TWO	7.875"	219'					
Casing Record							

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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.
QUINTER KANSAS
NORTH TO 70 ROAD, 3 WEST, 1/2 NORTH, WEST 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		This Log Record Was Witnessed By	
Engineer: J. HENRICKSON	Operator:	Primary Witness: ROBERT HENDRIX	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

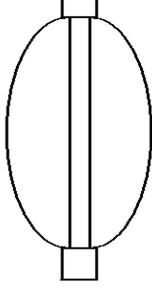
Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_popp_1_14.db
 Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A 1	BOREID in 7.875	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	M 2	MATRXDEN g/cc 2.71
NPORSEL Limestone	PERFS 0	SNDERR mmho/m 0	SNDERRM mmho/m 0	SPSHIFT mV -180	SRFTEMP degF 0	SZCOR Off	TDEPTH ft 0

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
WVF4 WVF1	11.00 11.00		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	9.00 9.00					



CENT-SIE

3.00

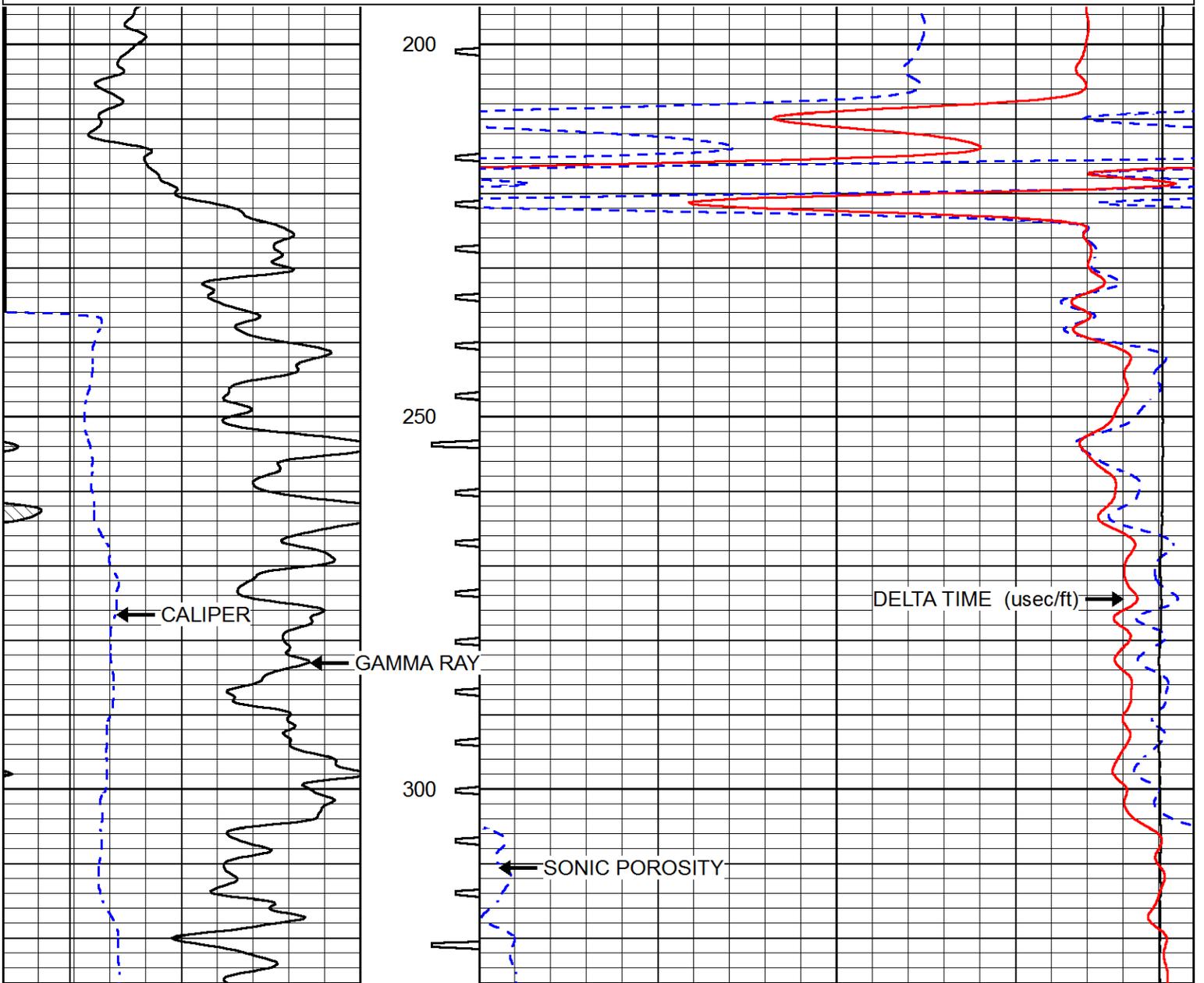
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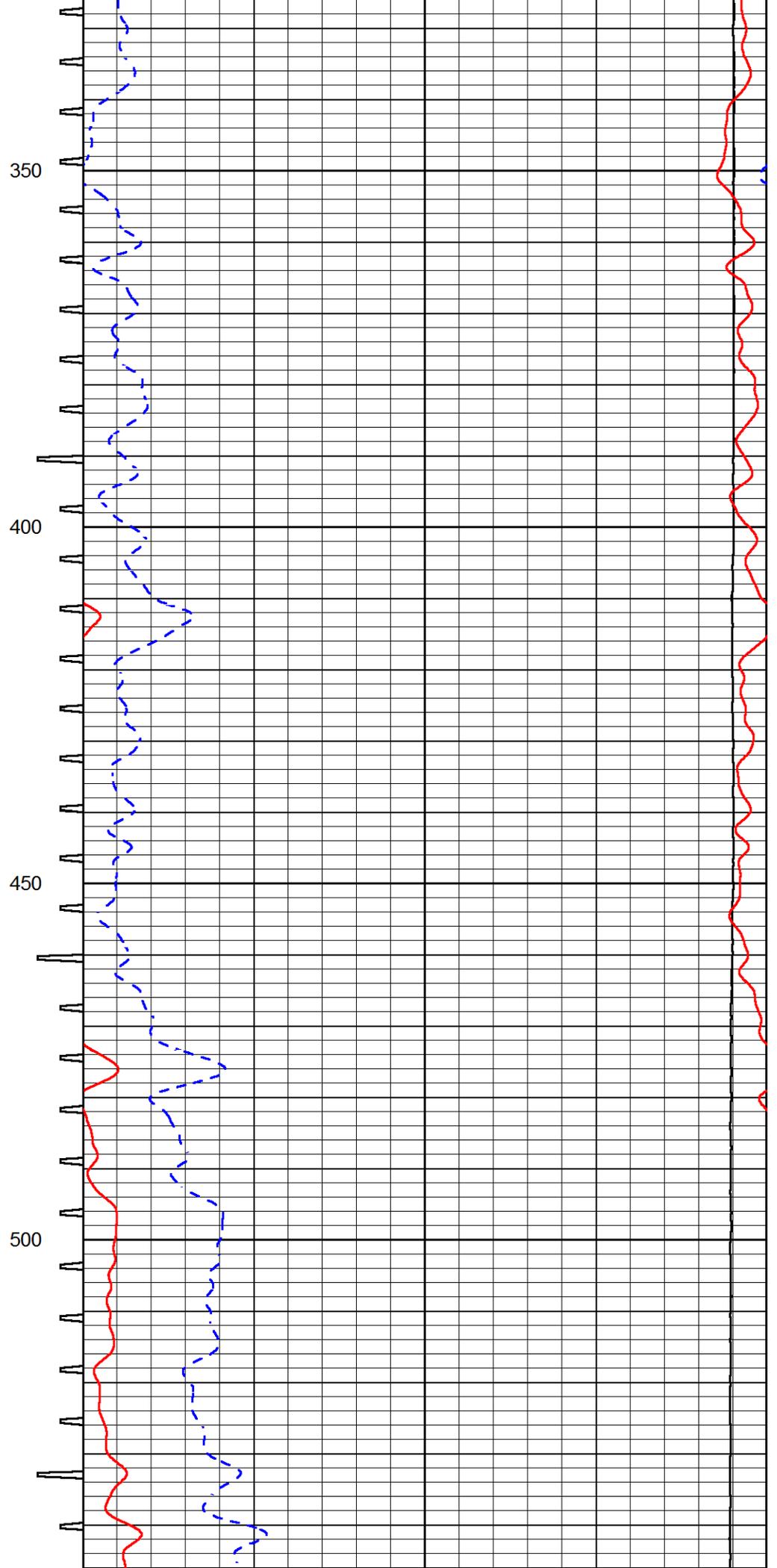
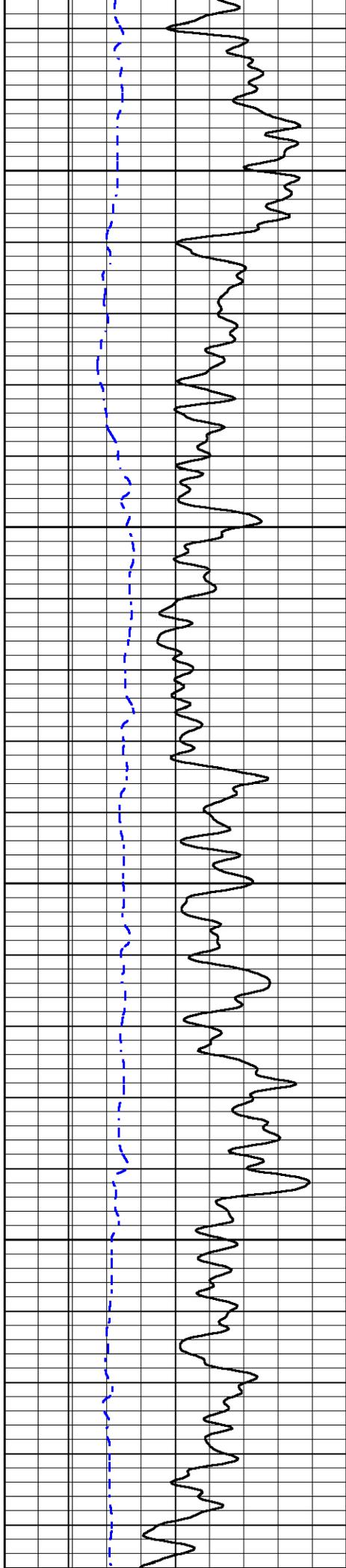
10.00

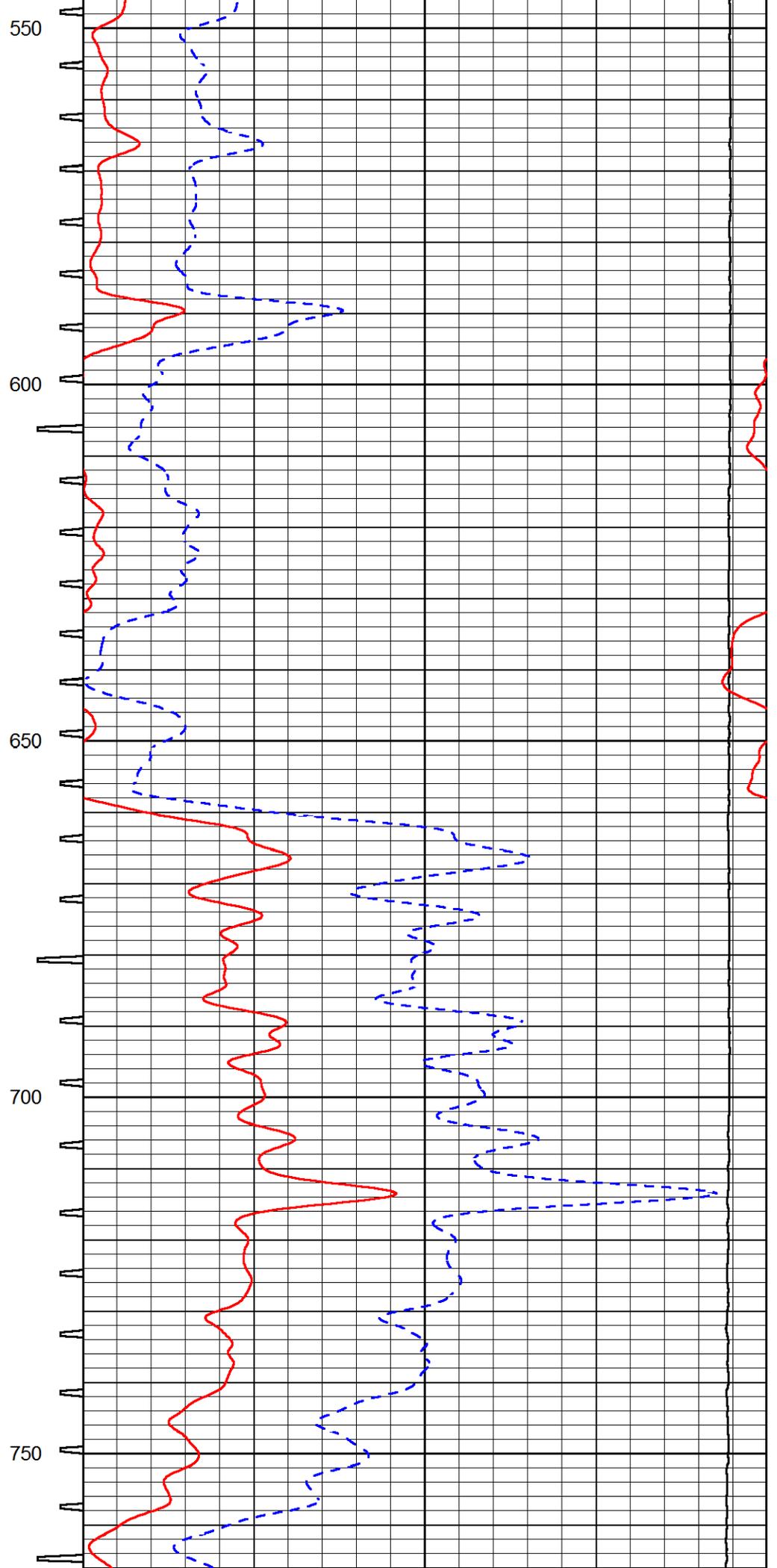
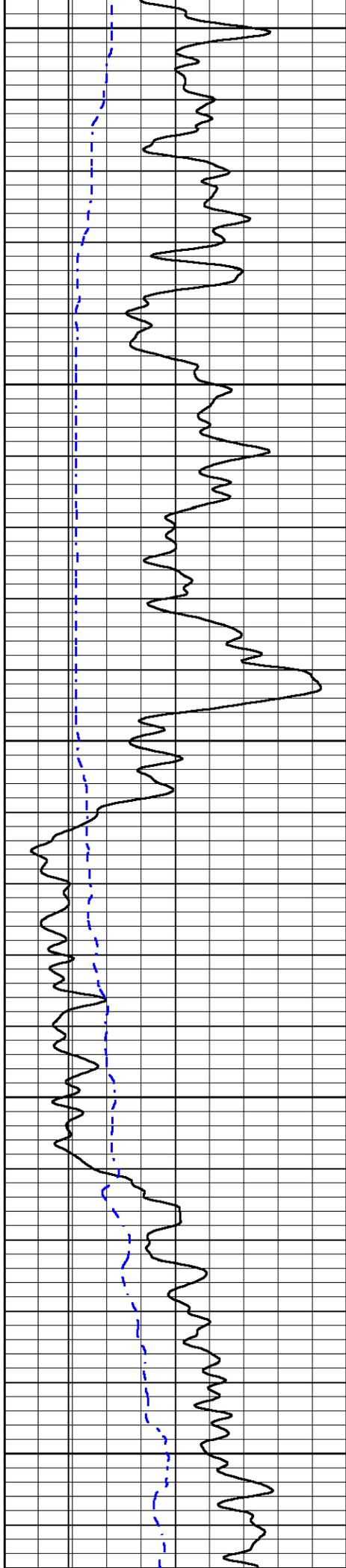
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 Total weight: 310.00 lb
 O.D.: 3.50 in

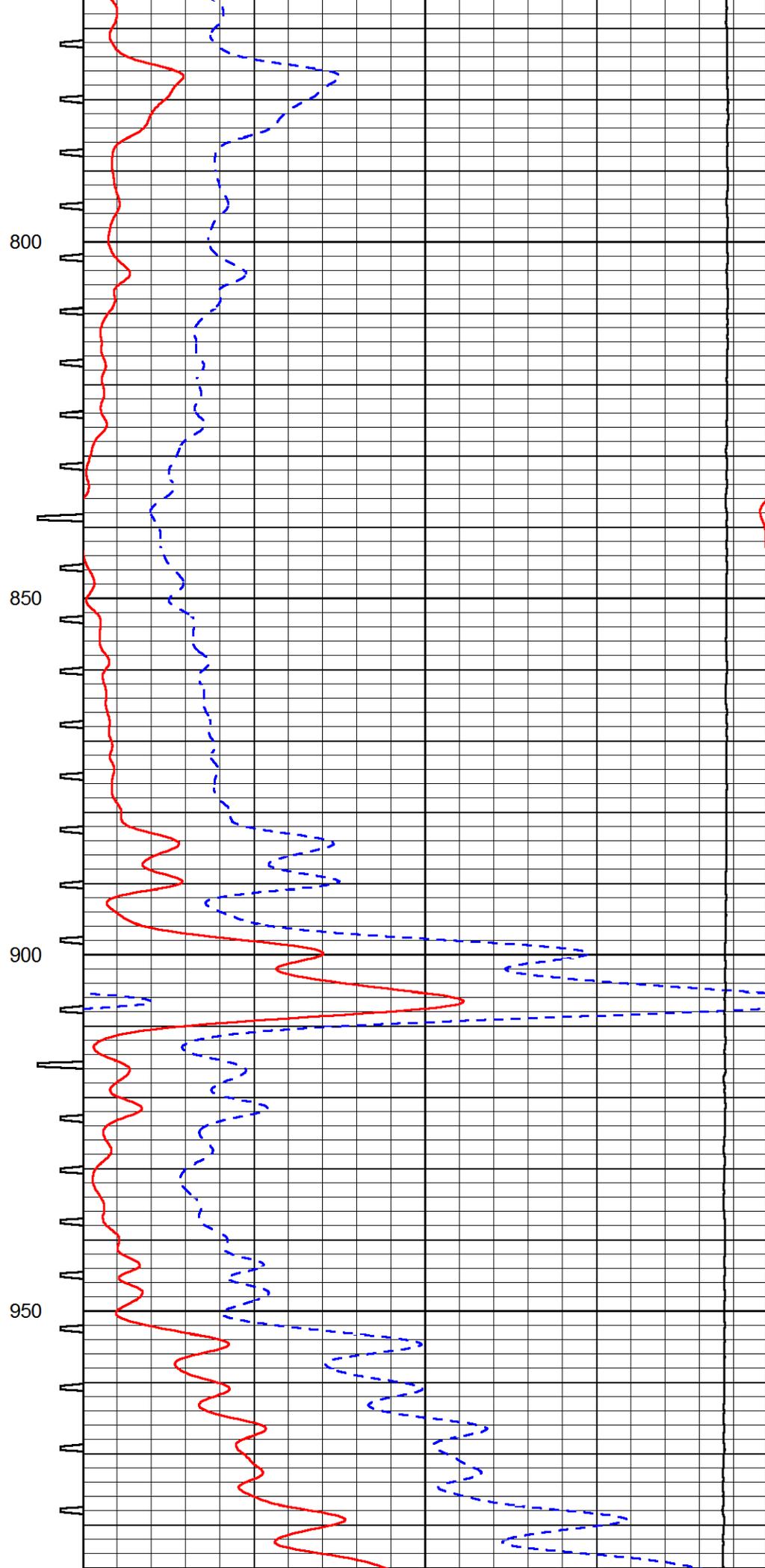
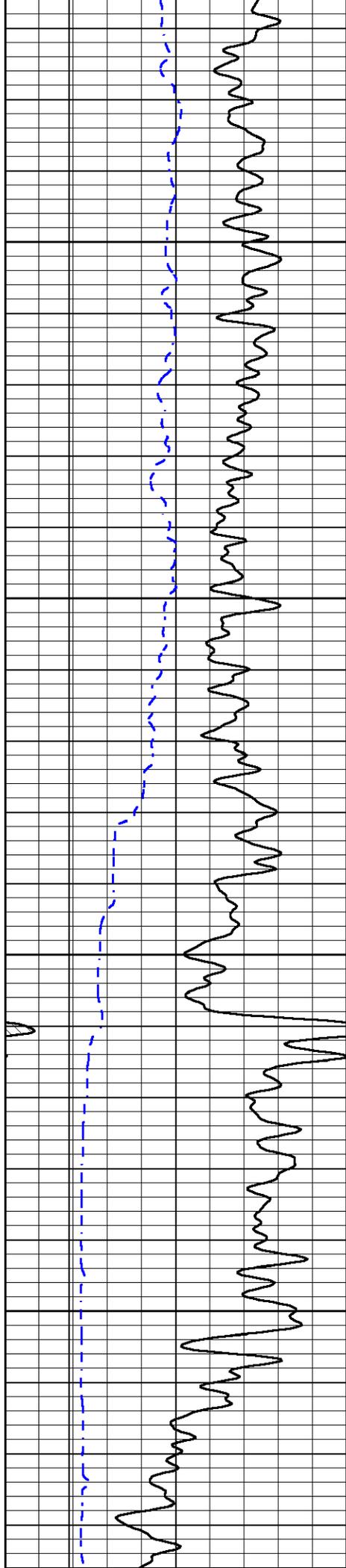
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 Dataset Pathname stackml/pass3.1
 Presentation Format sonic
 Dataset Creation Wed Apr 18 15:19:52 2018
 Charted by Depth in Feet scaled 1:240

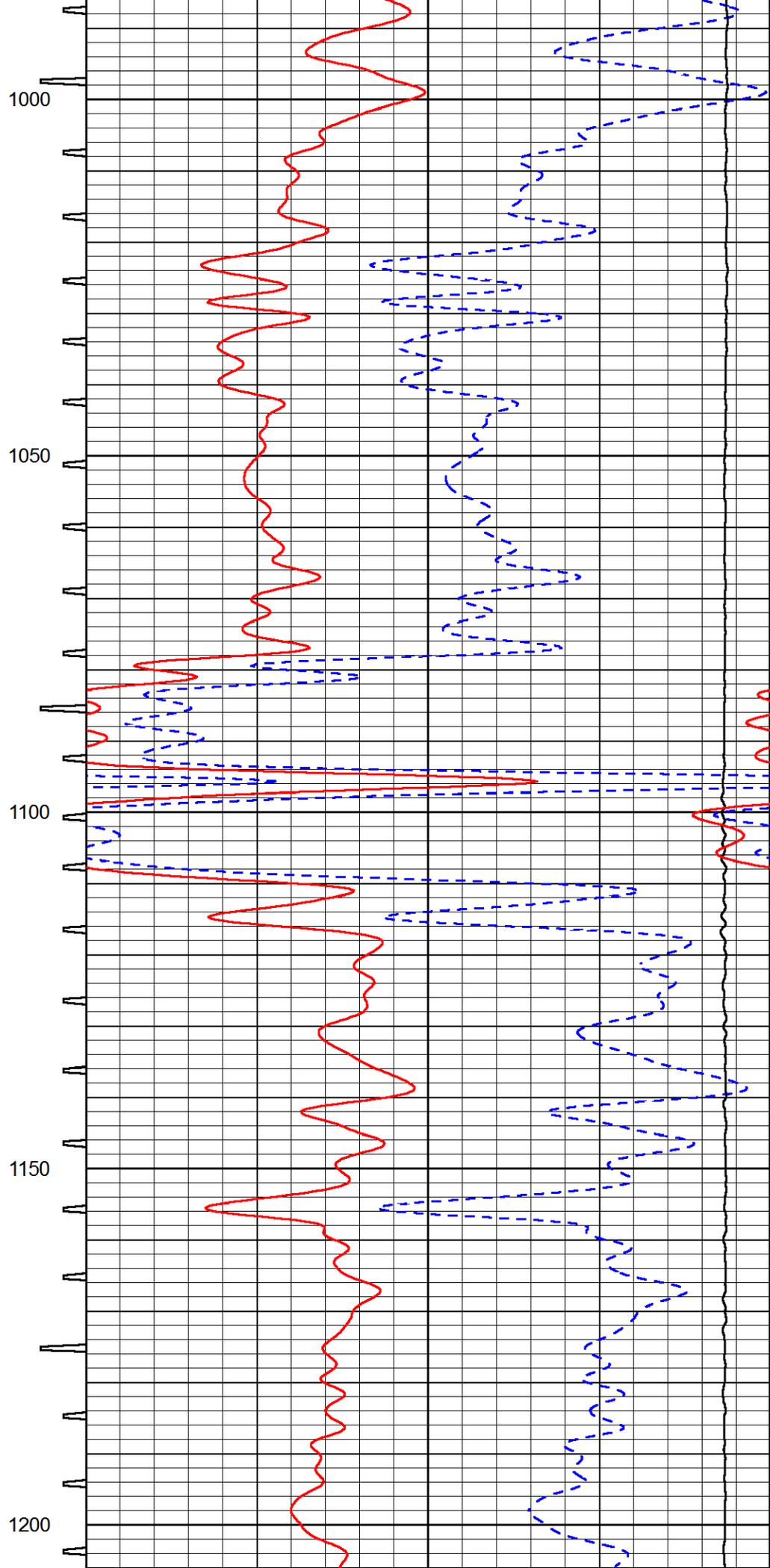
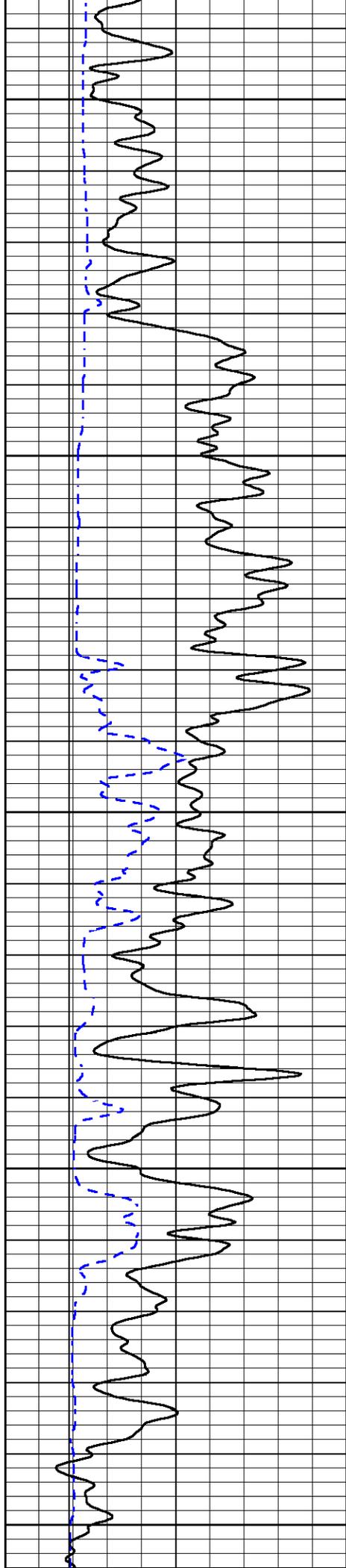
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6	CALIPER (in)	16	RAVEL TIM	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

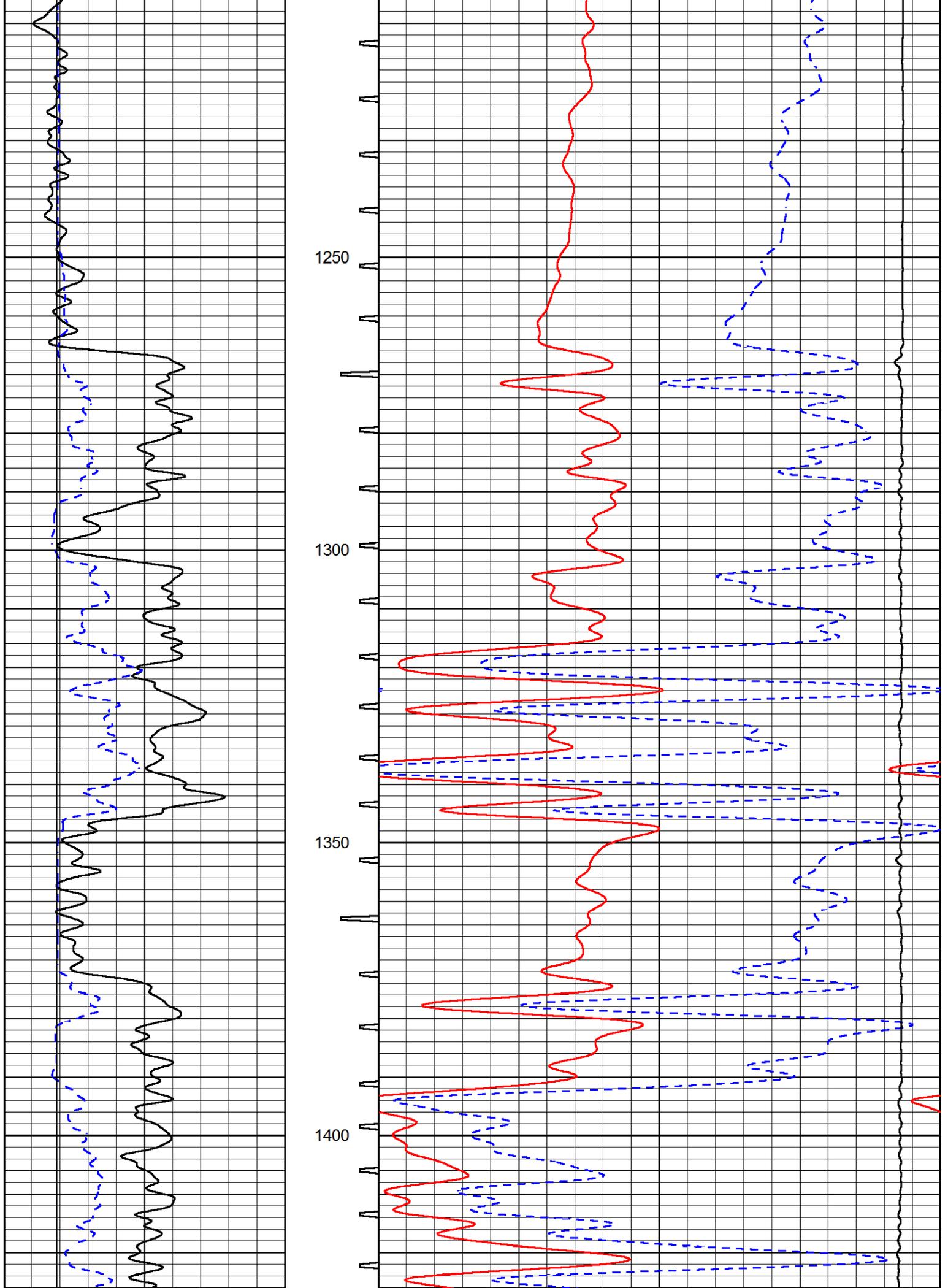


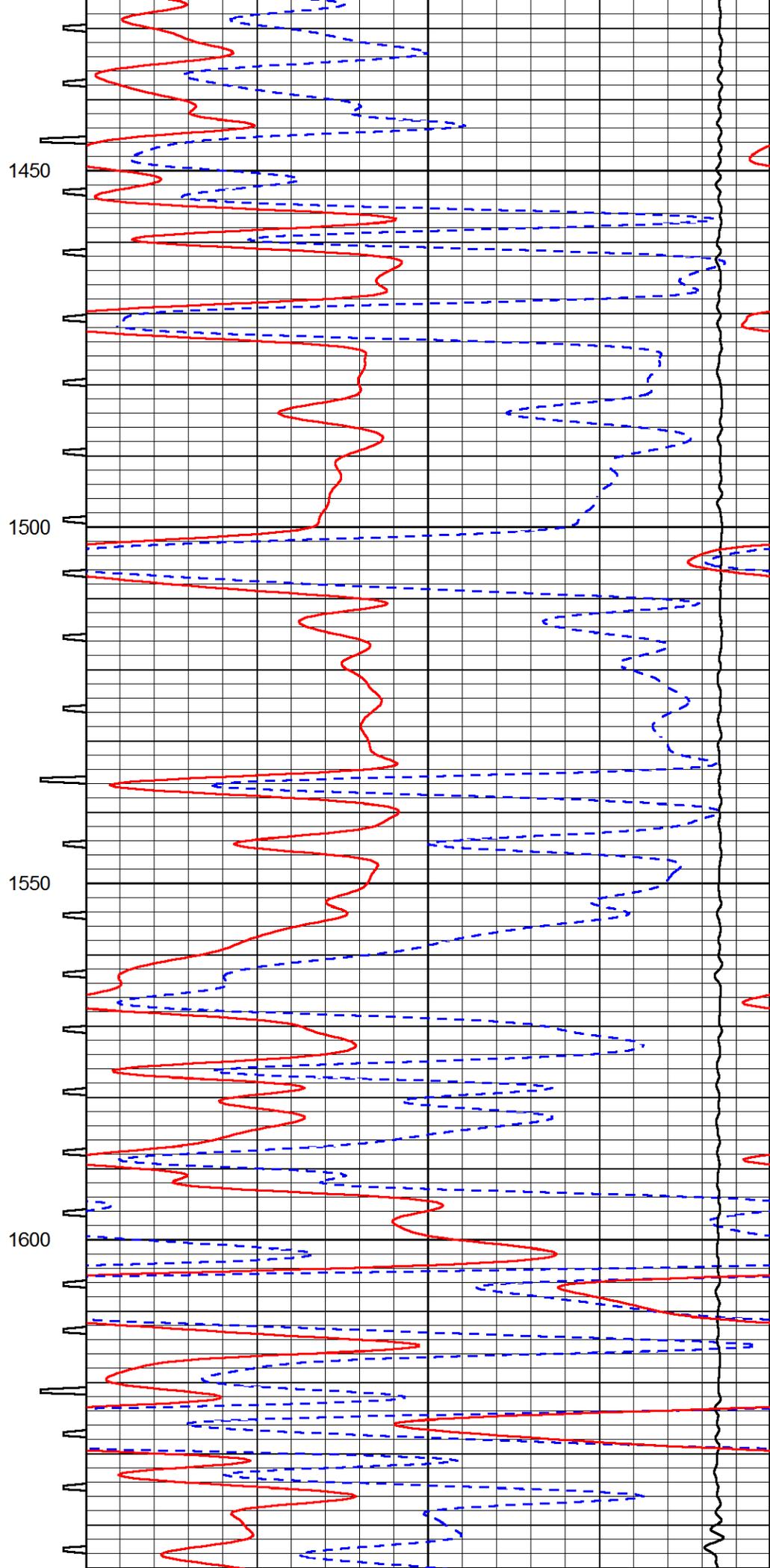
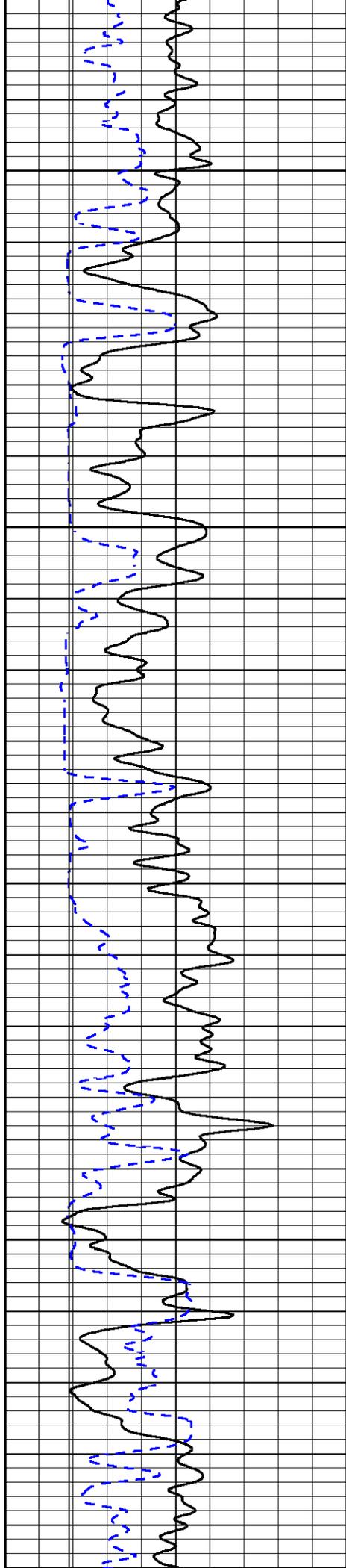


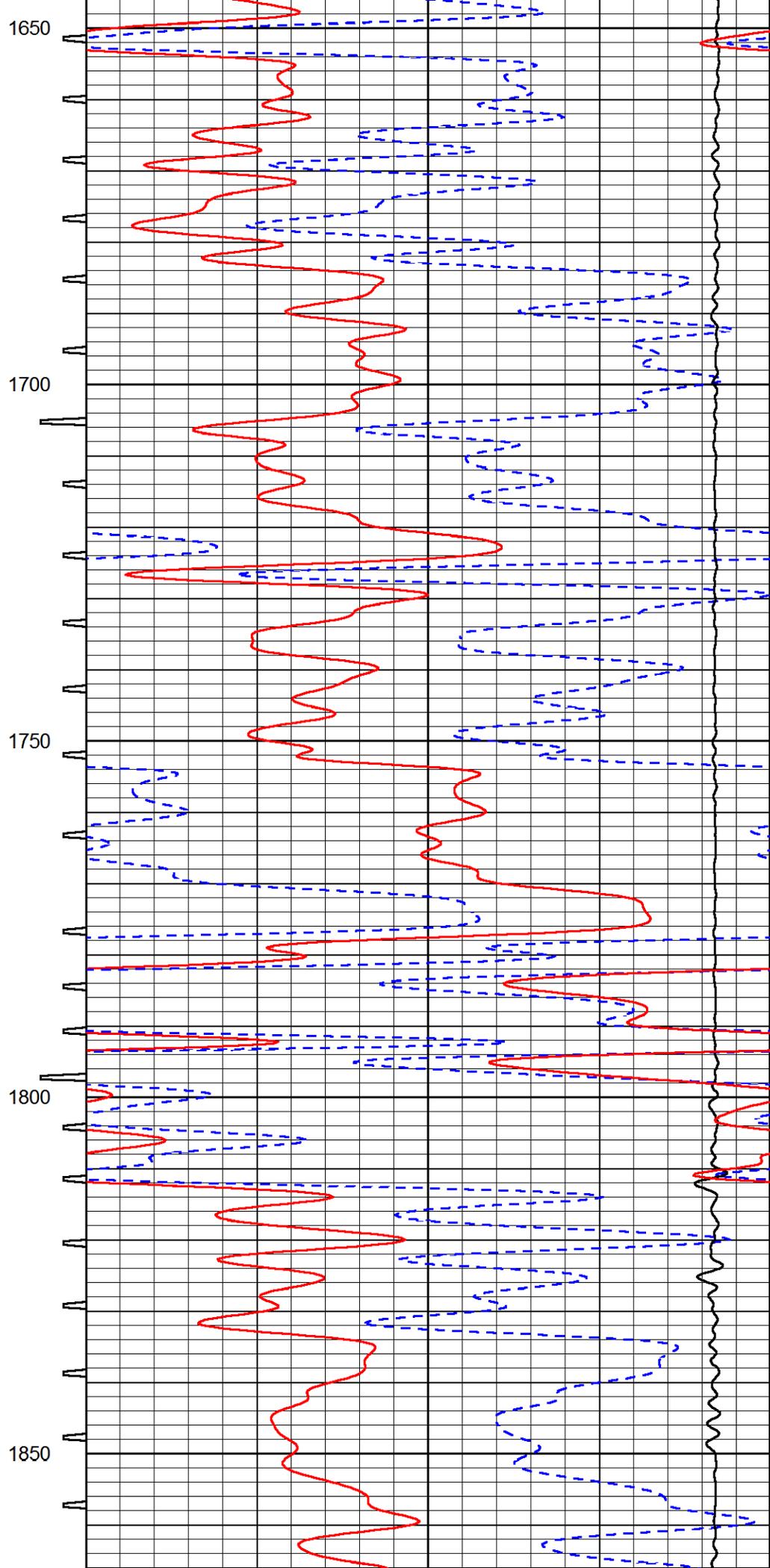
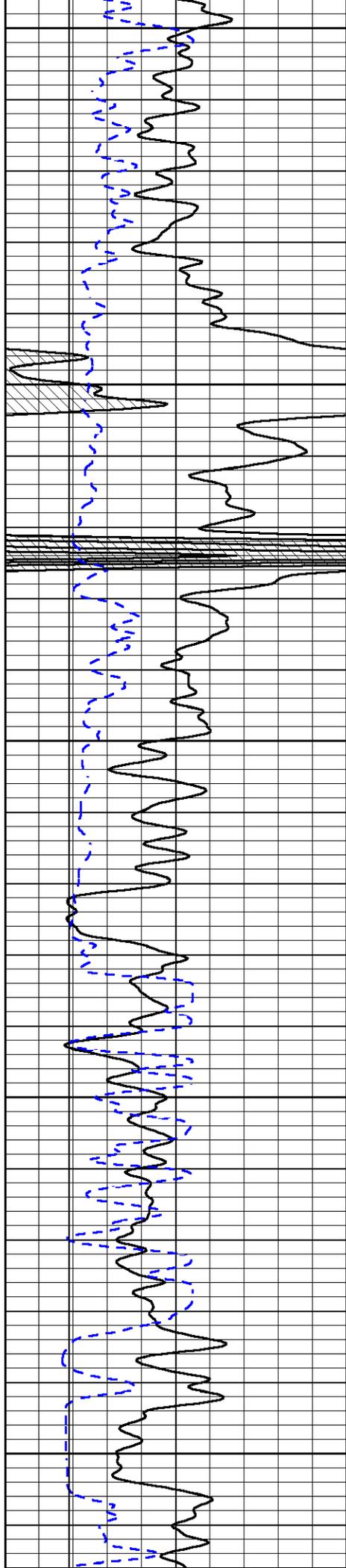


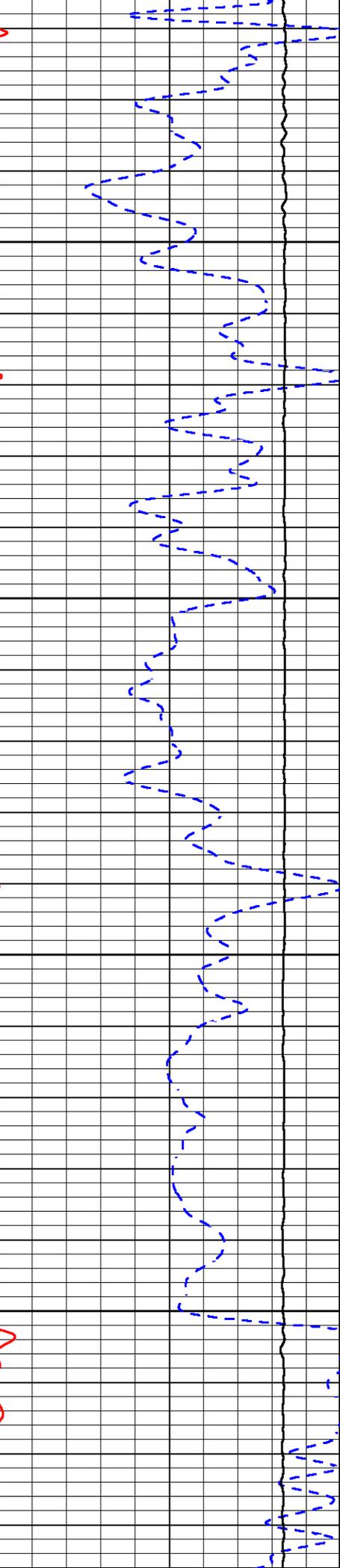
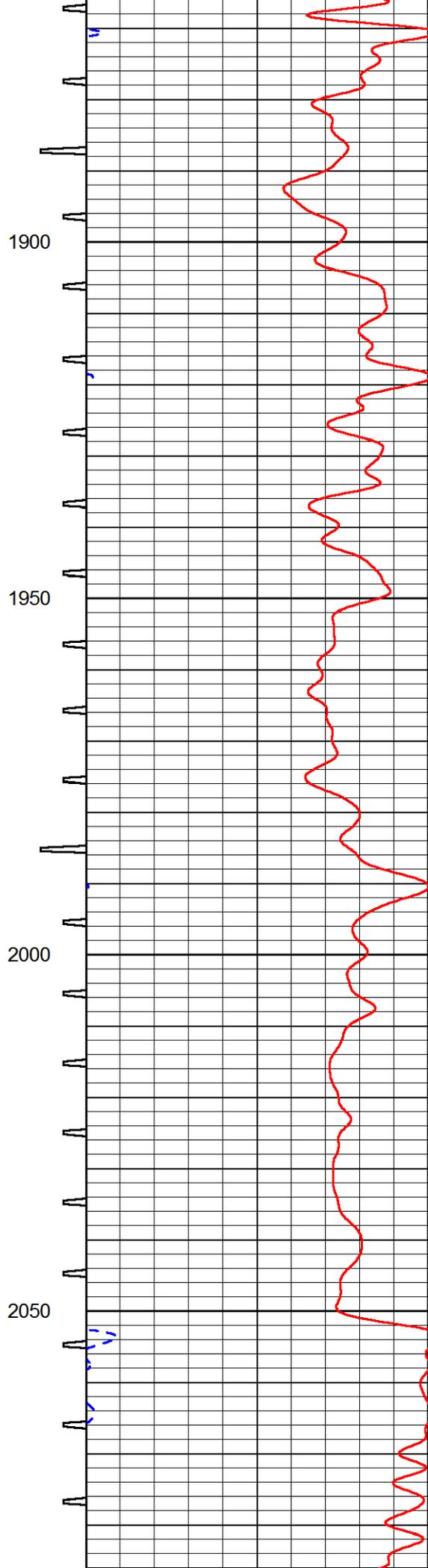
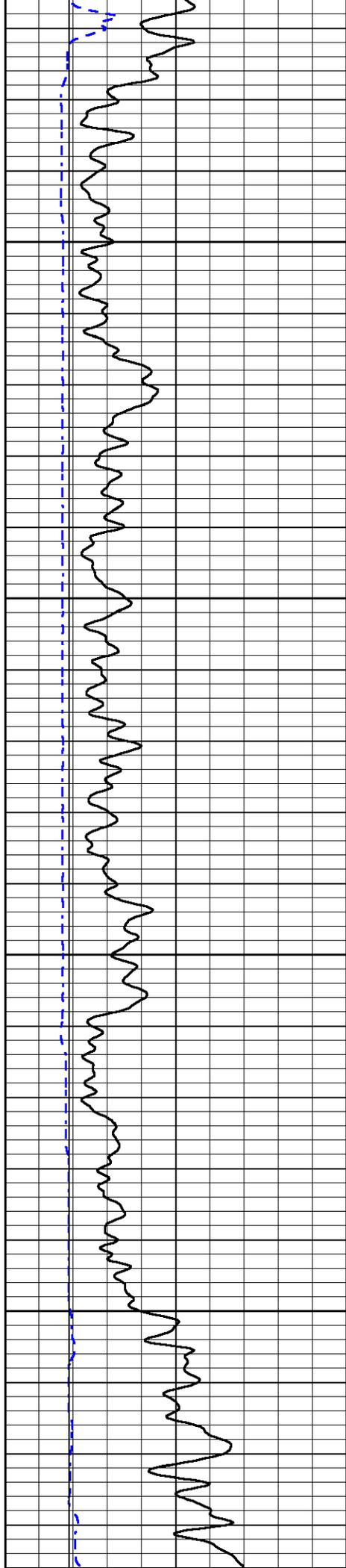


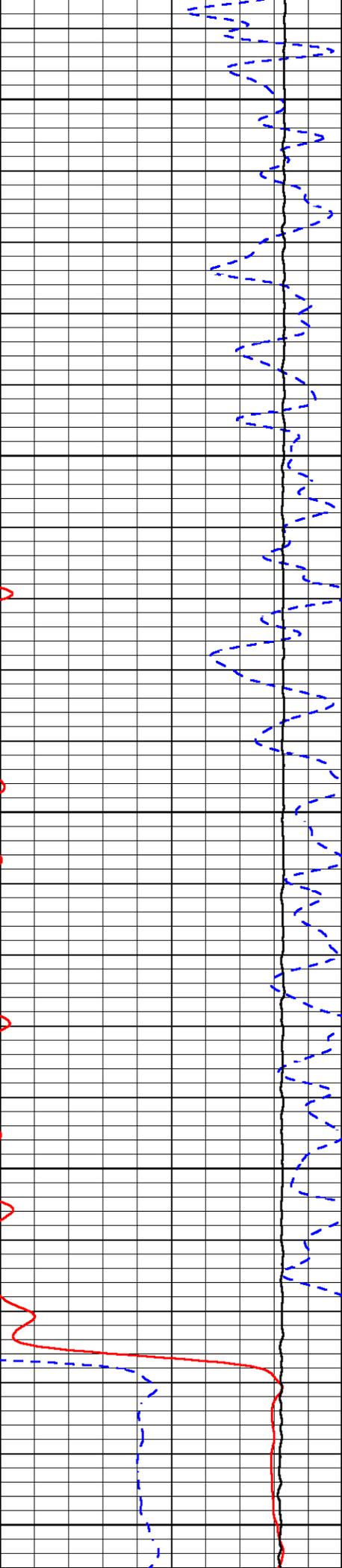
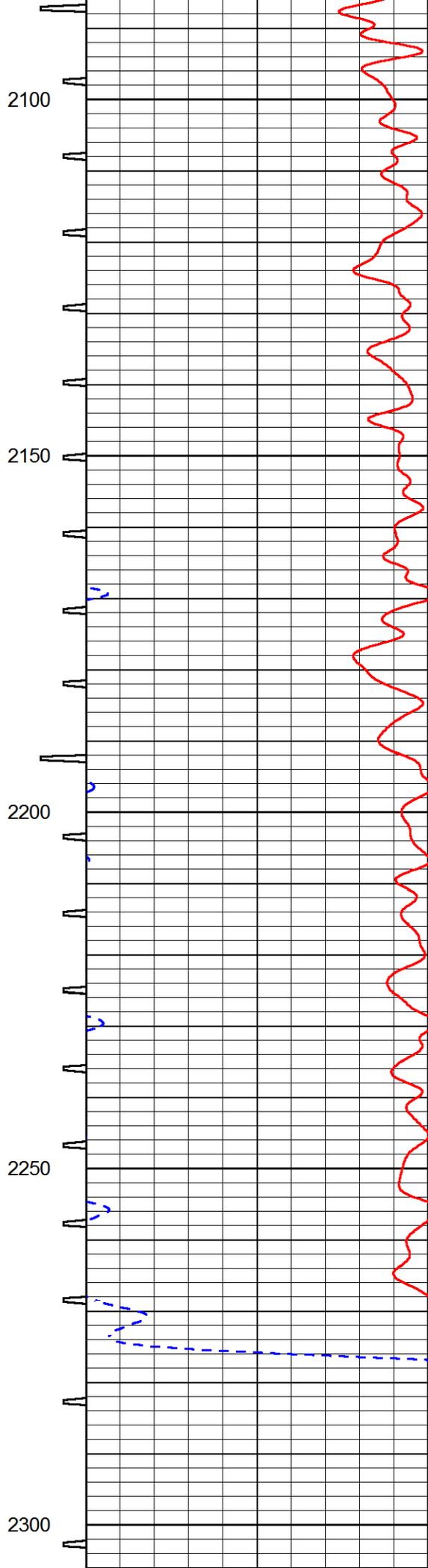
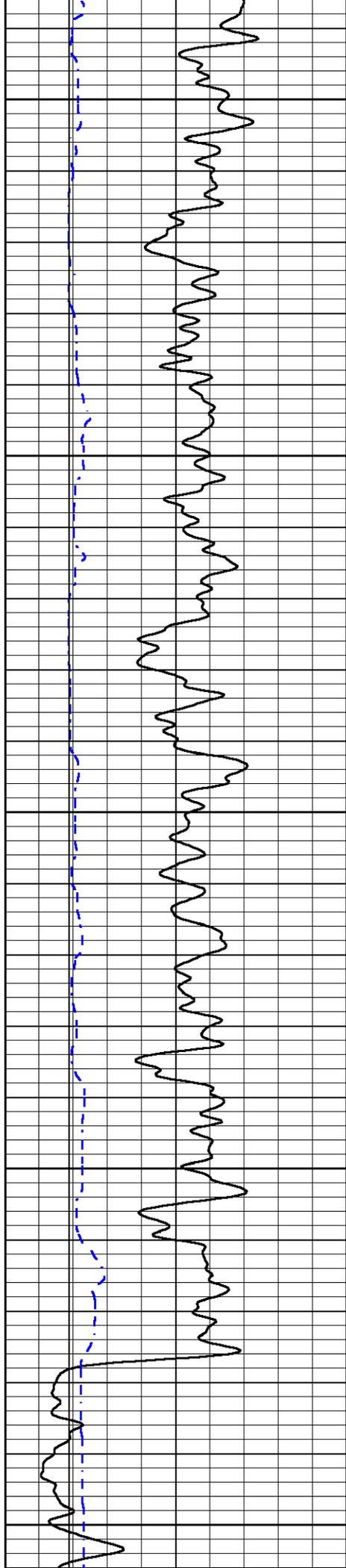


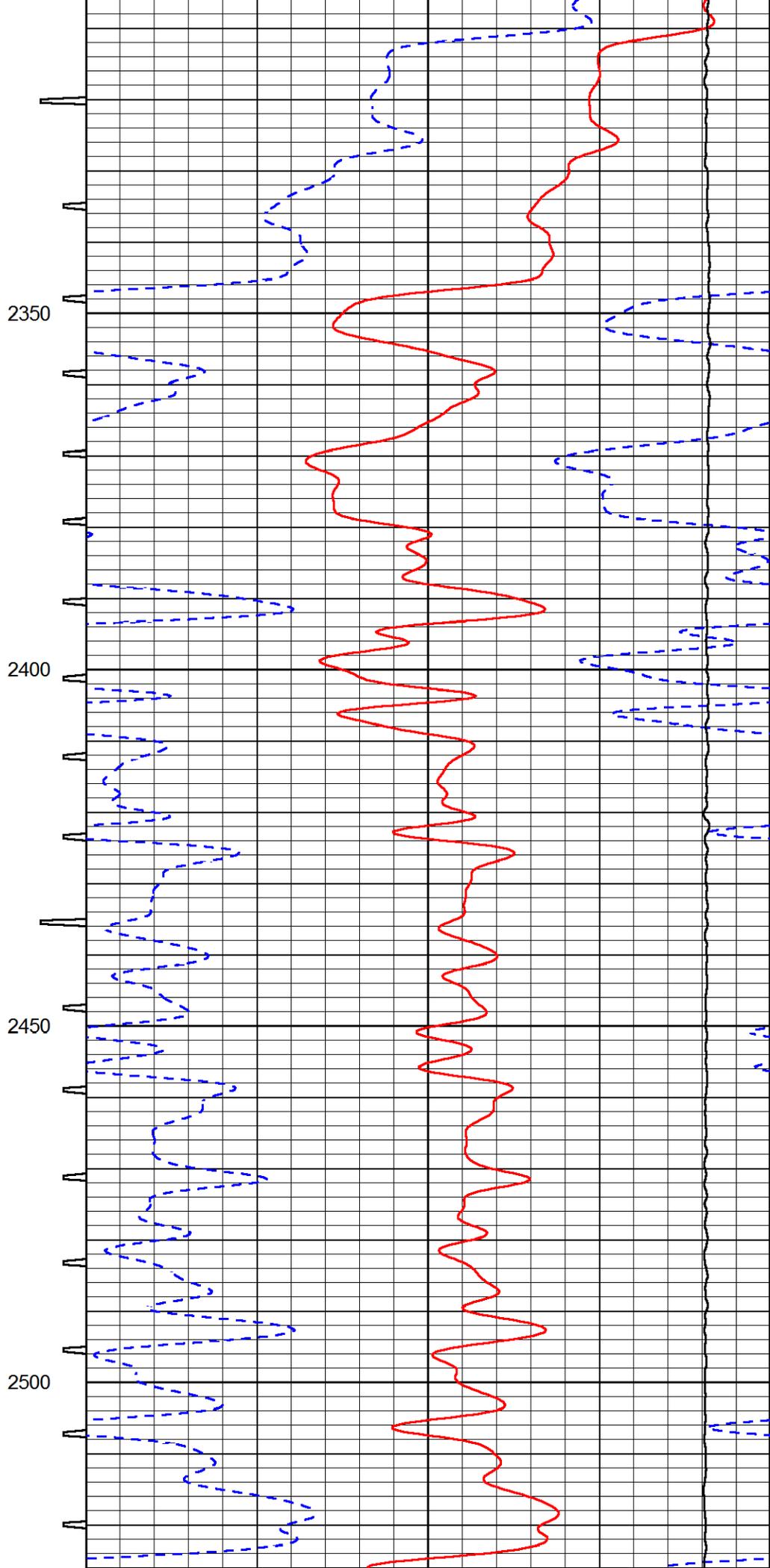
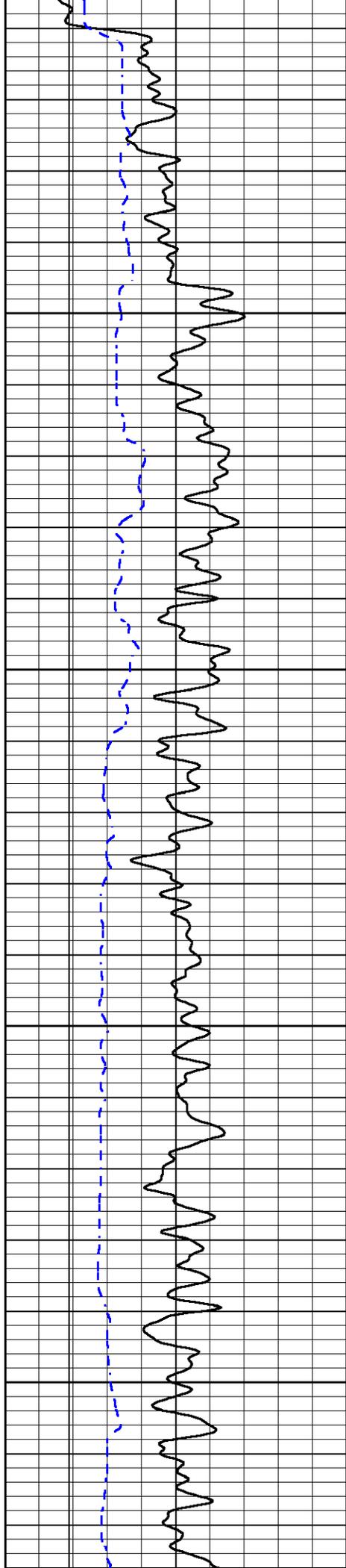


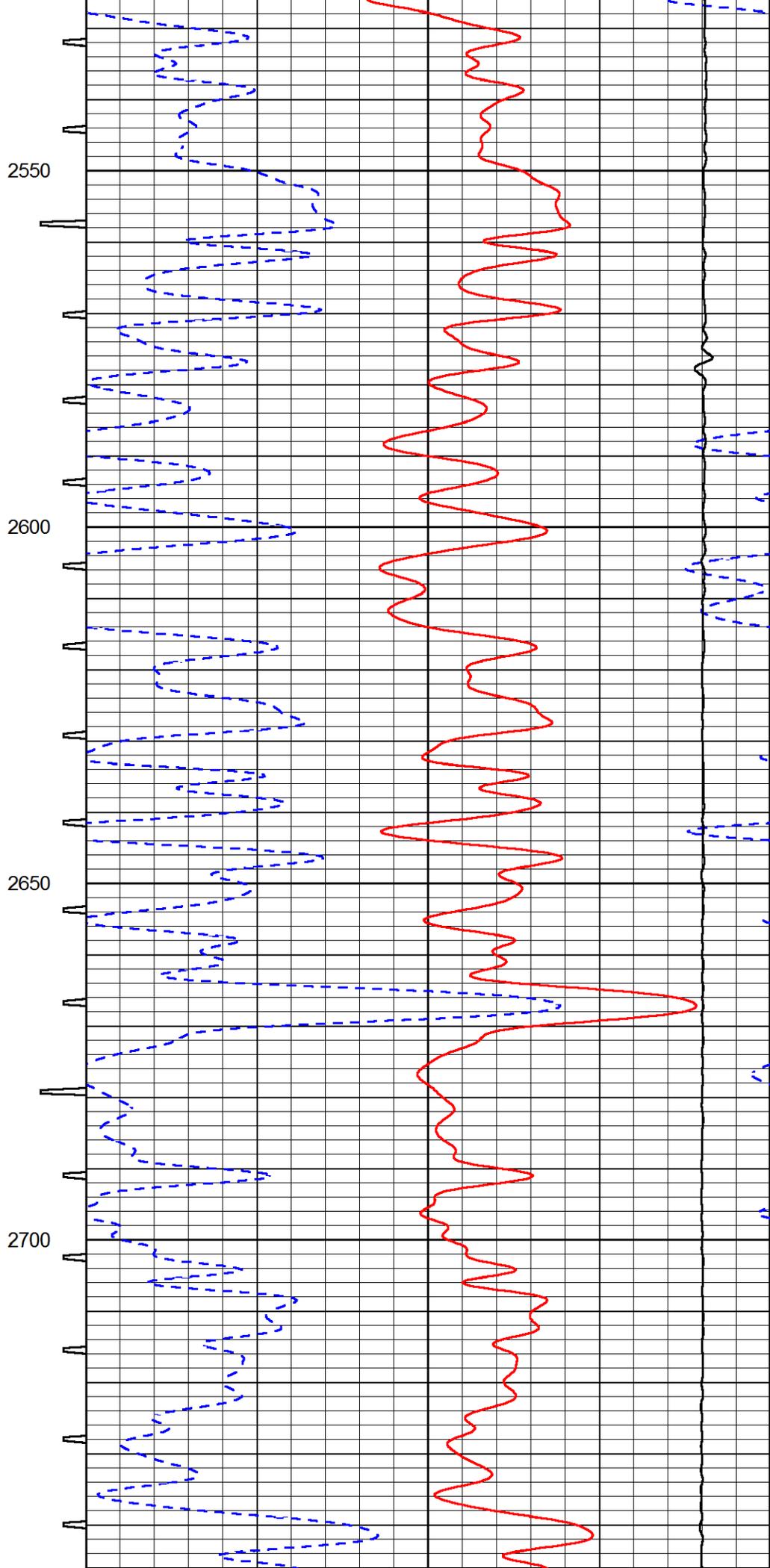
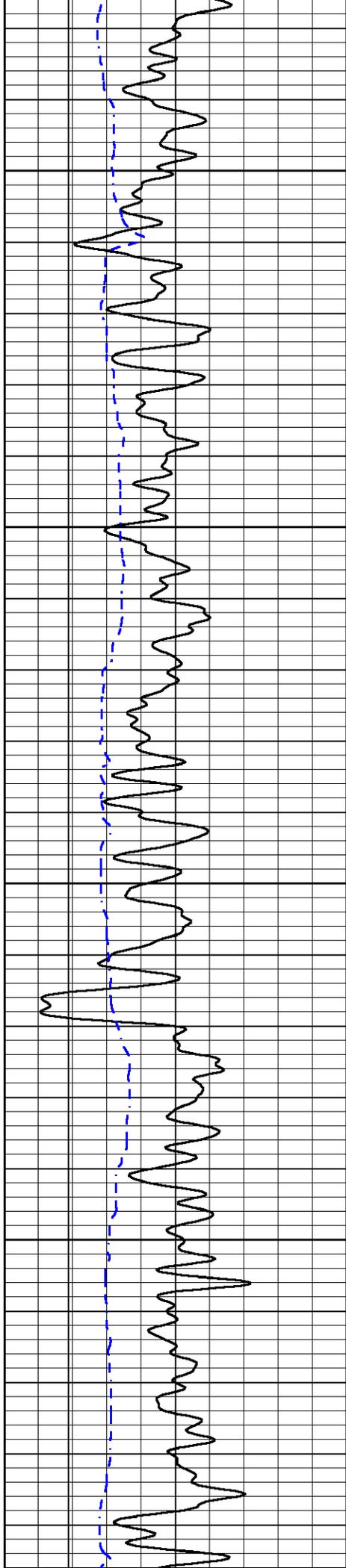


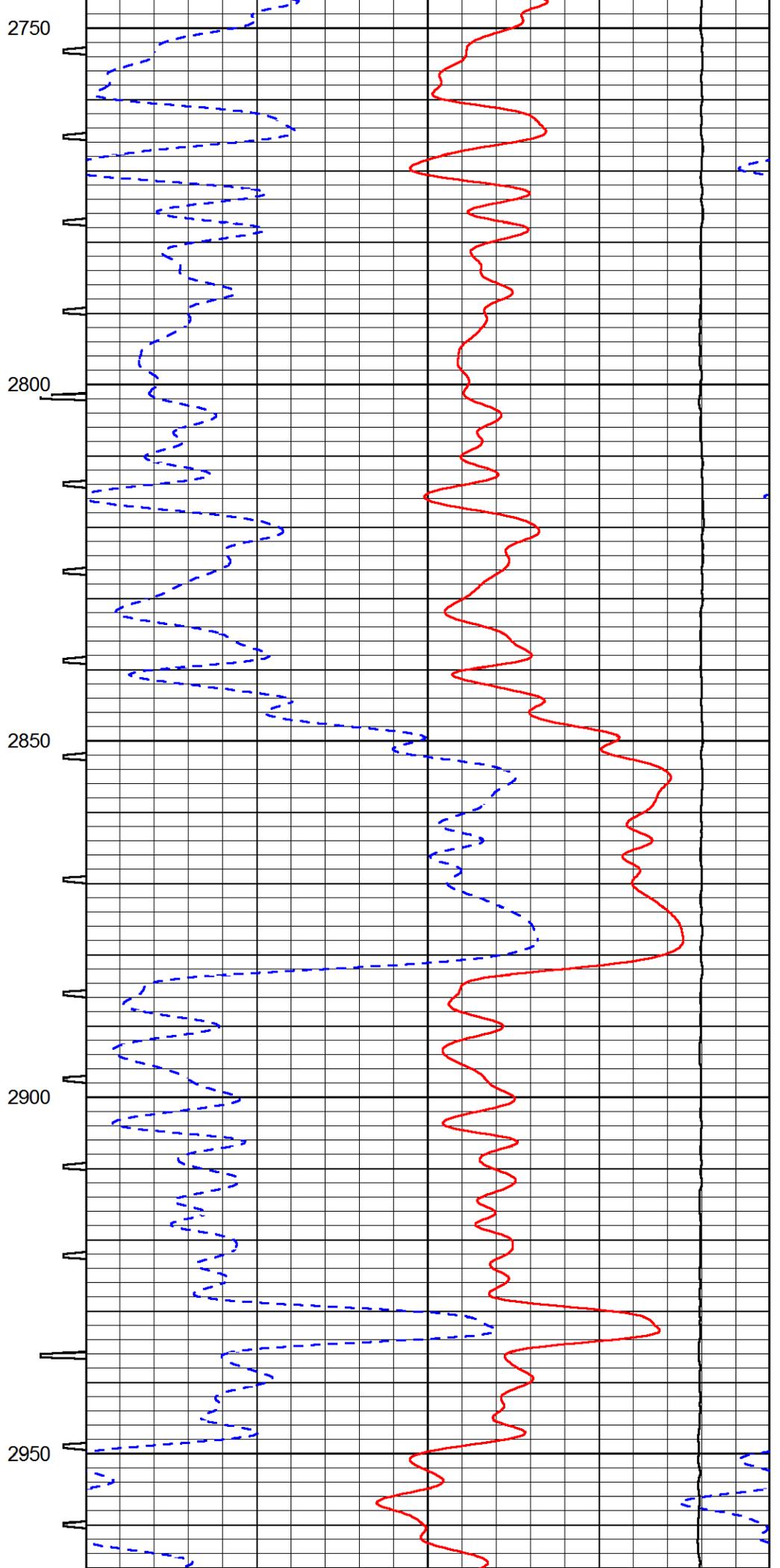
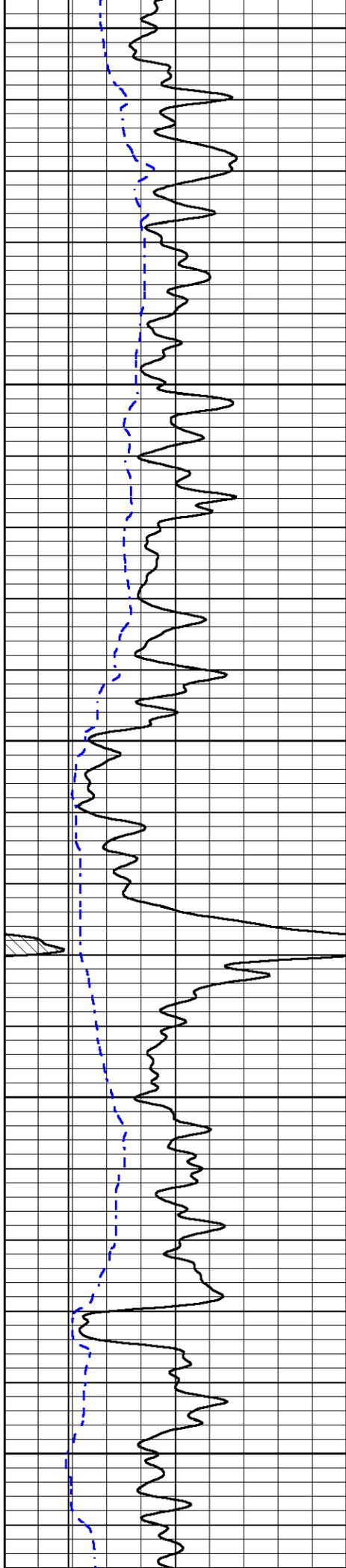


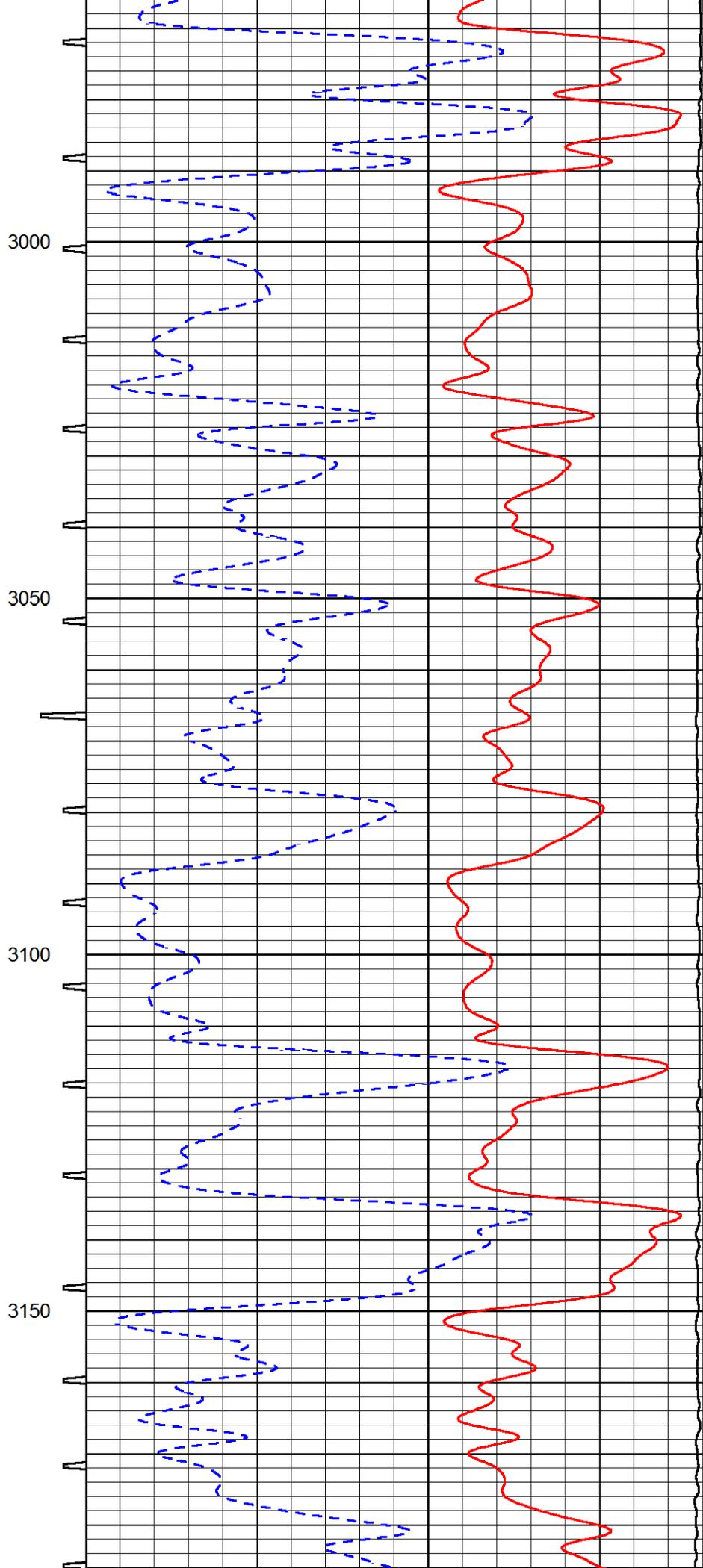
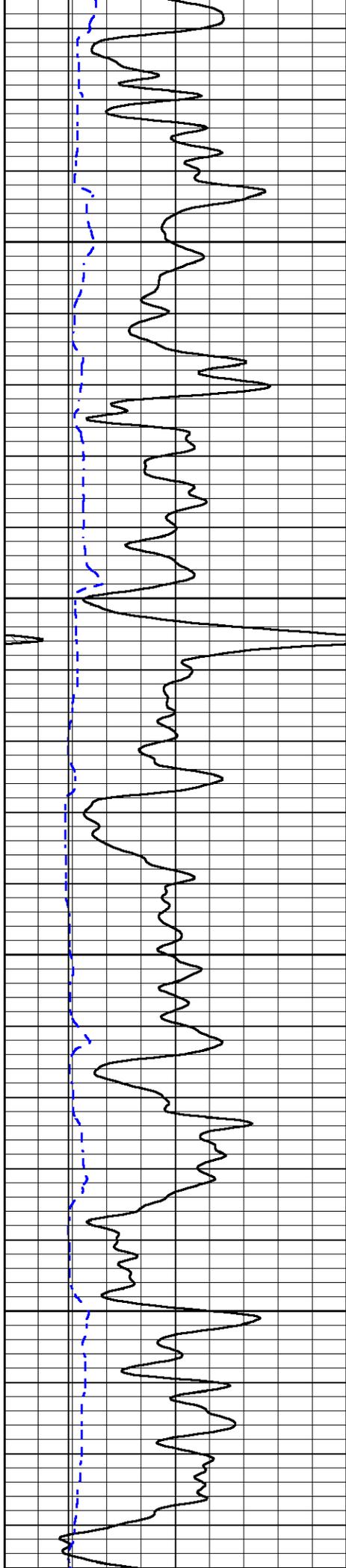


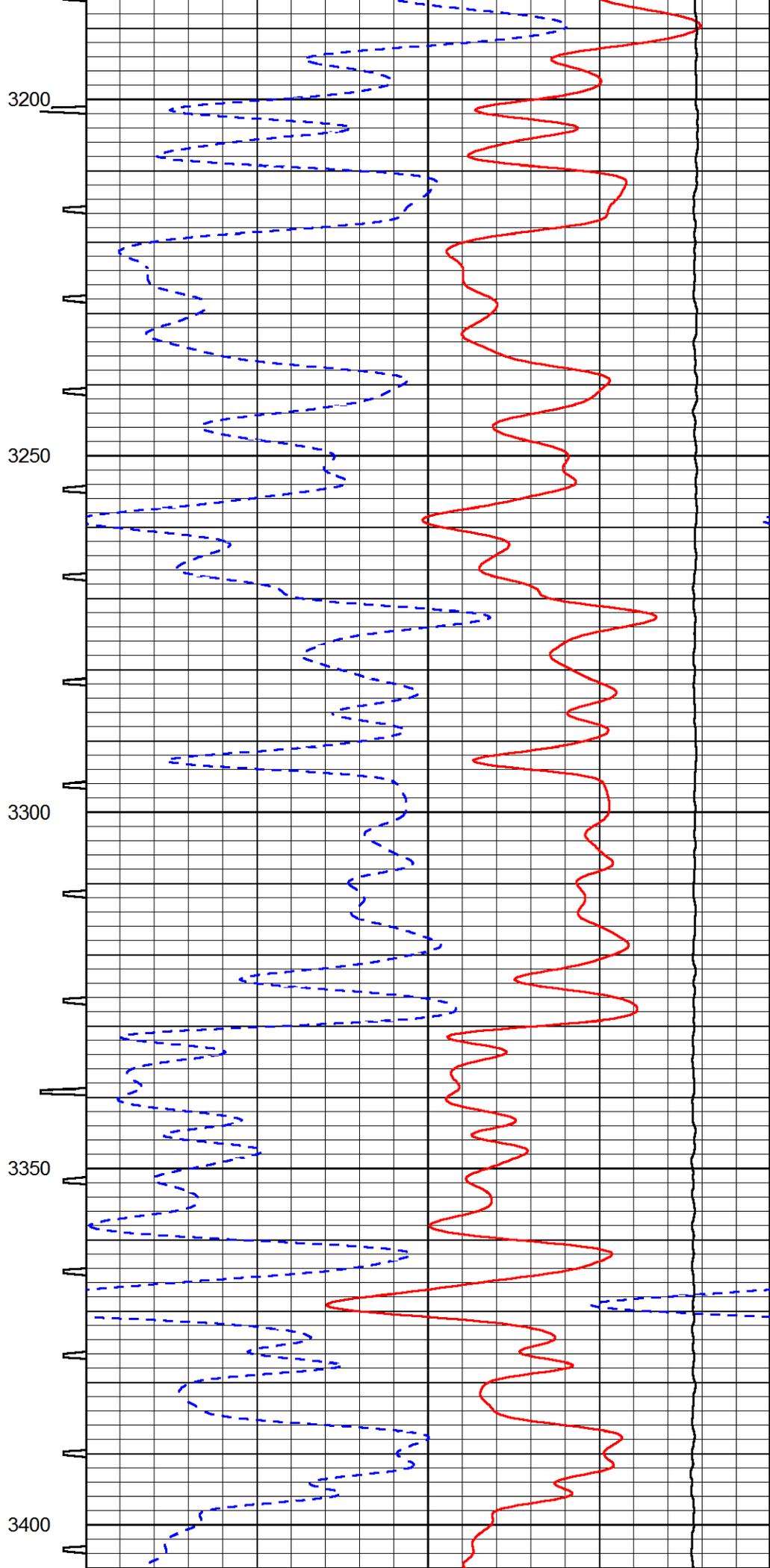
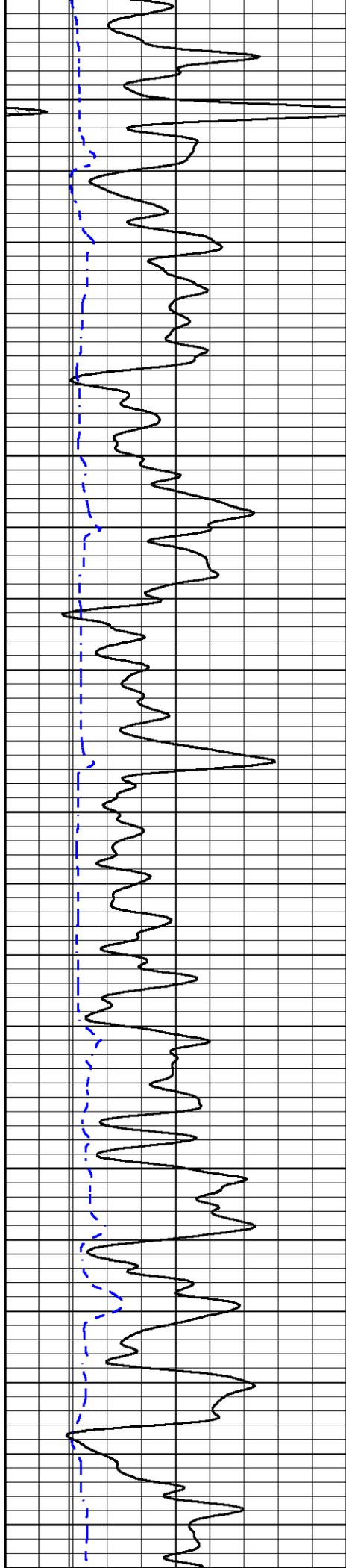


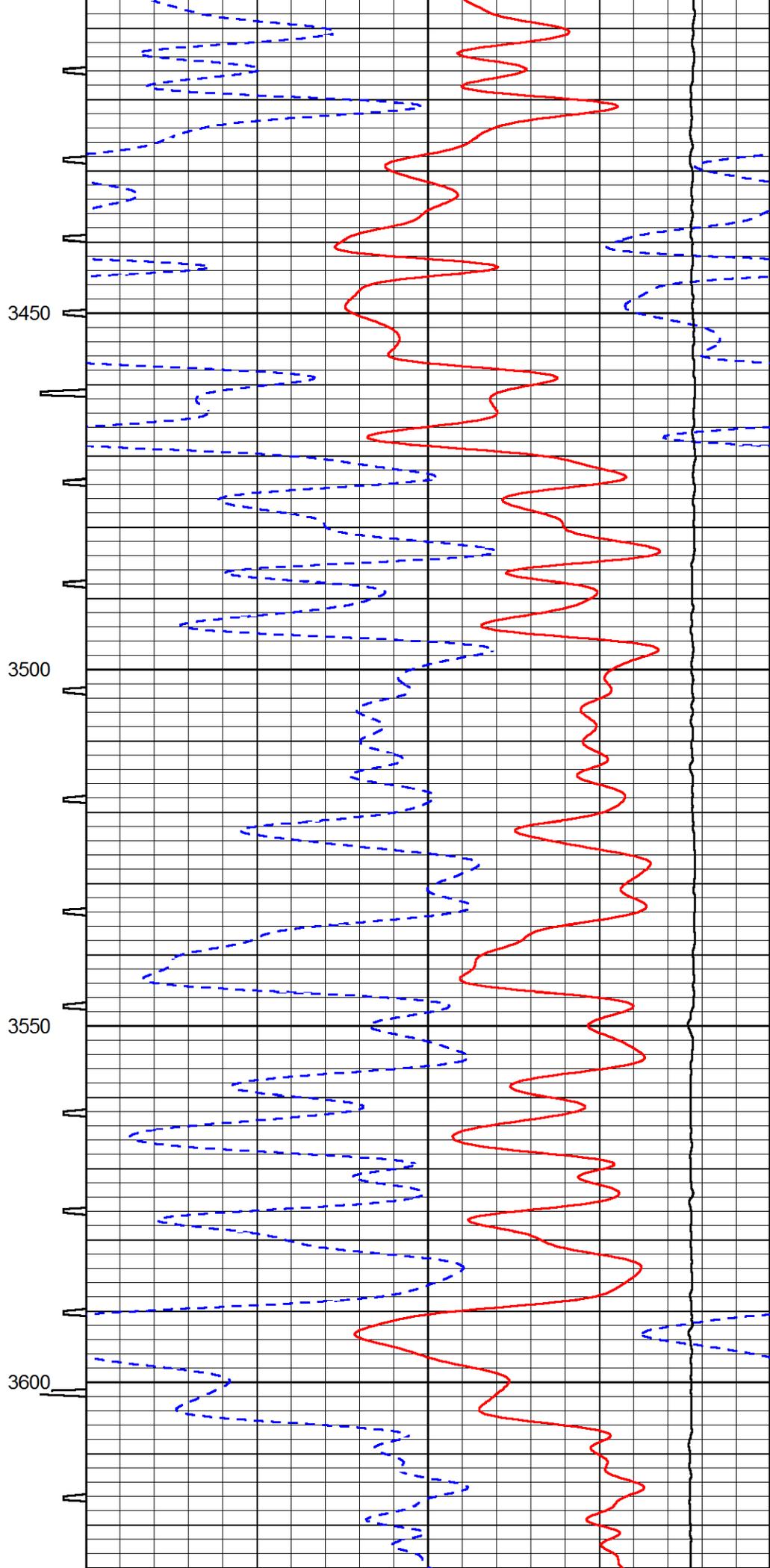
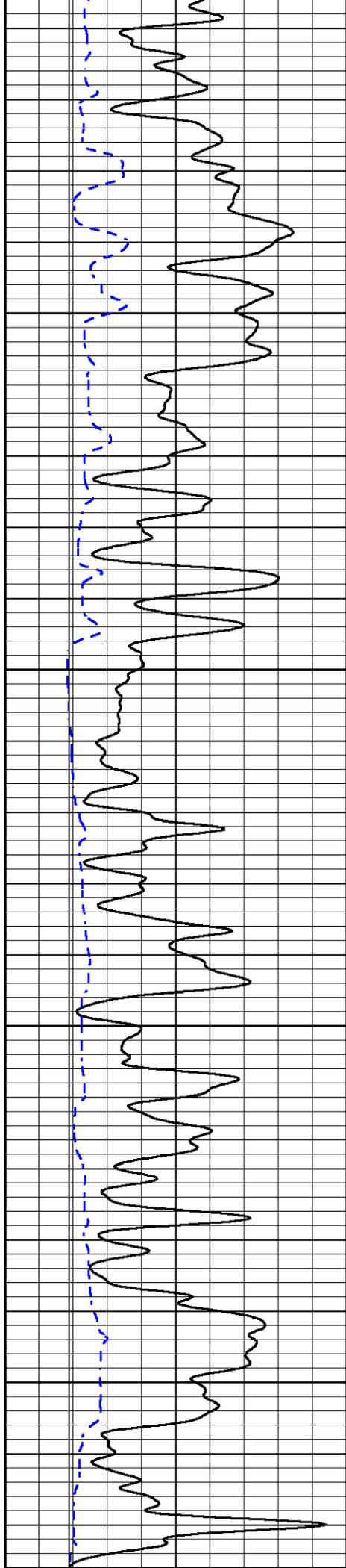


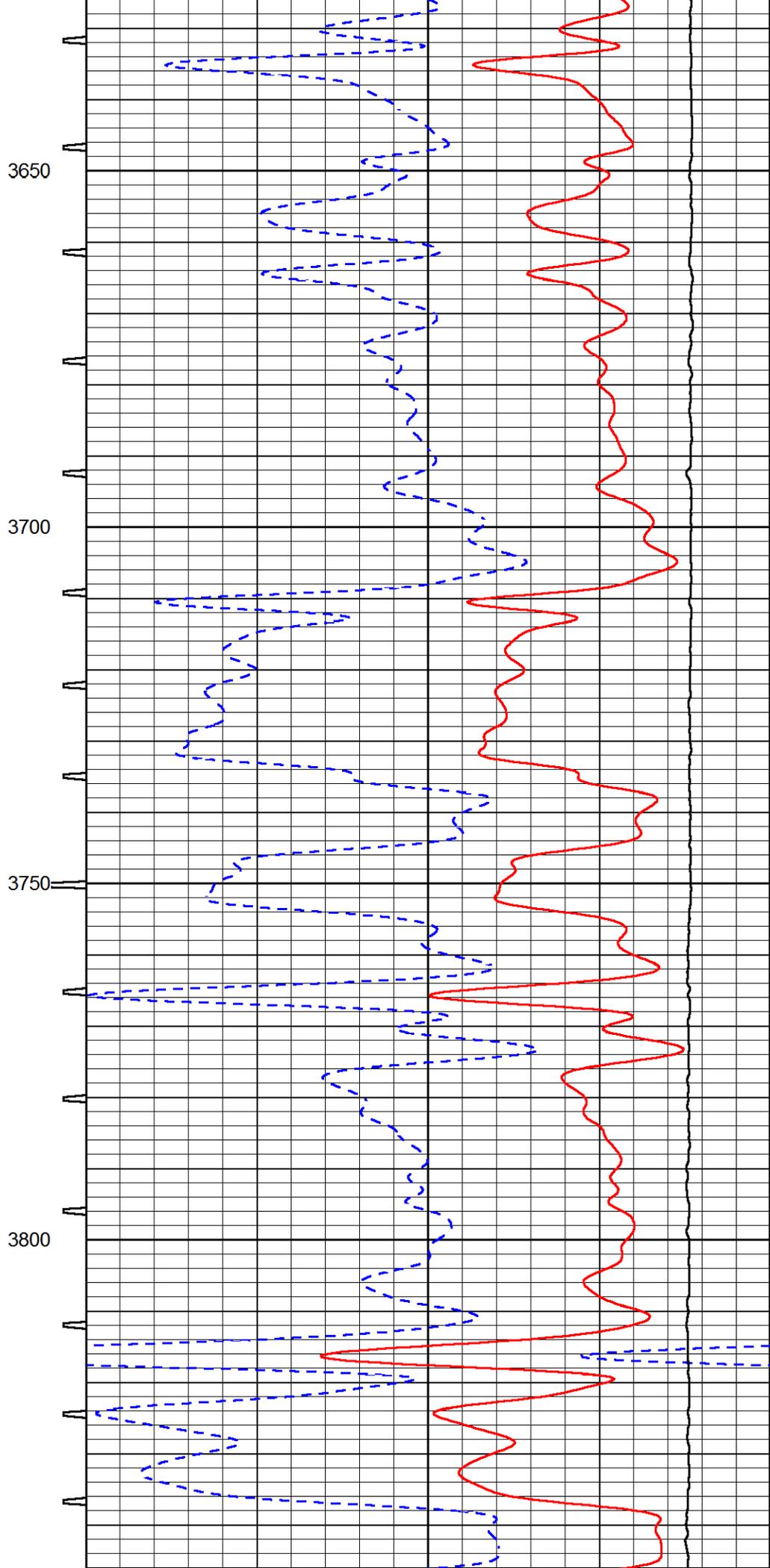
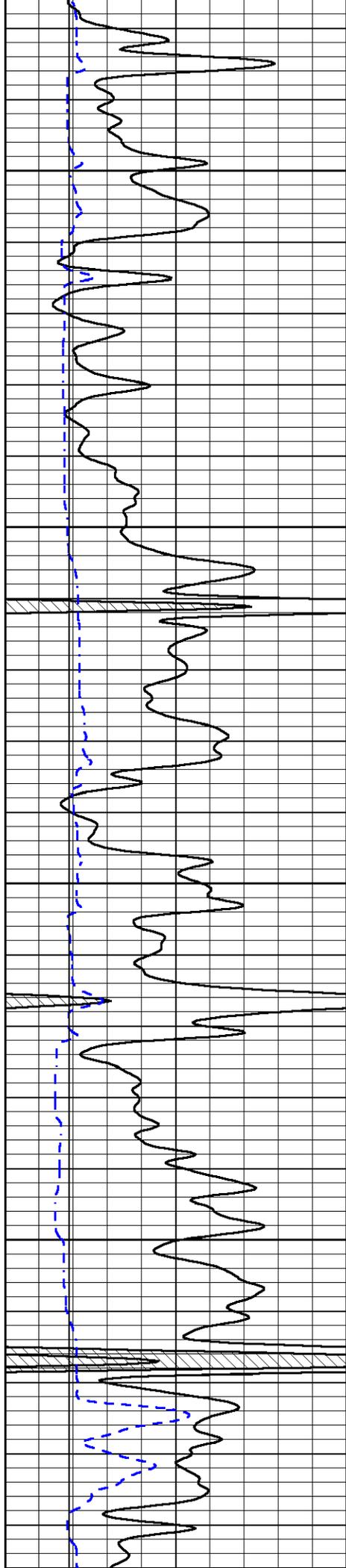


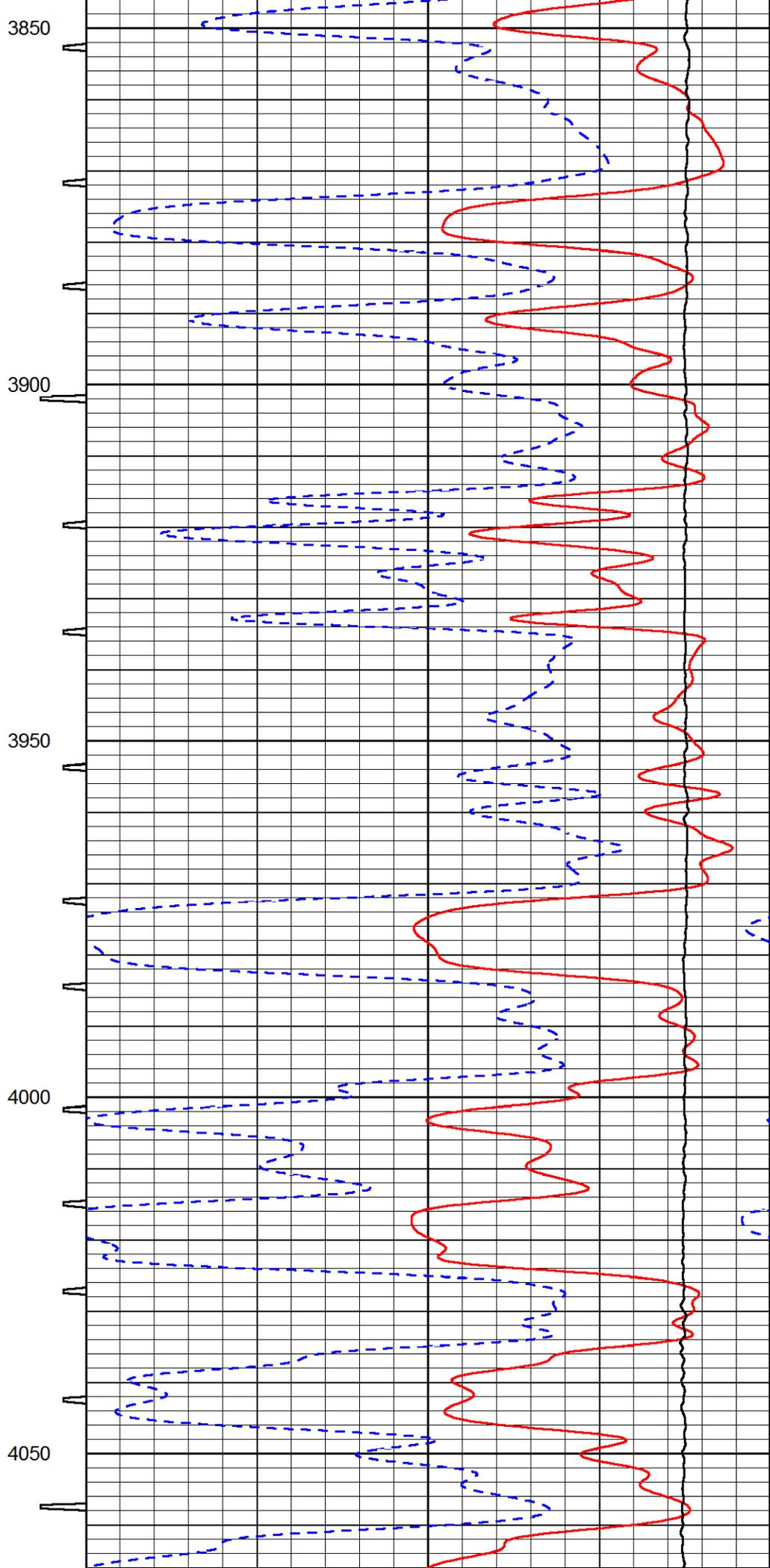
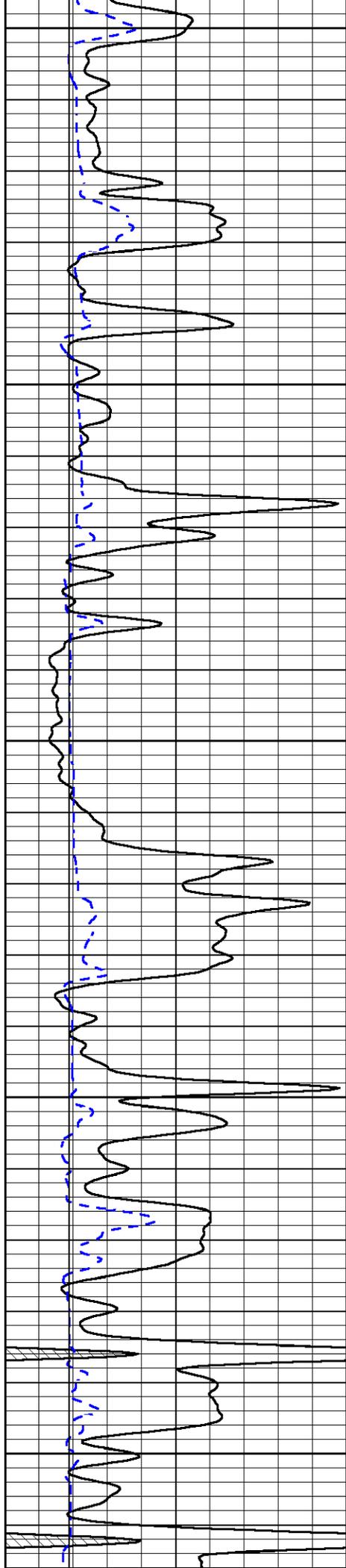


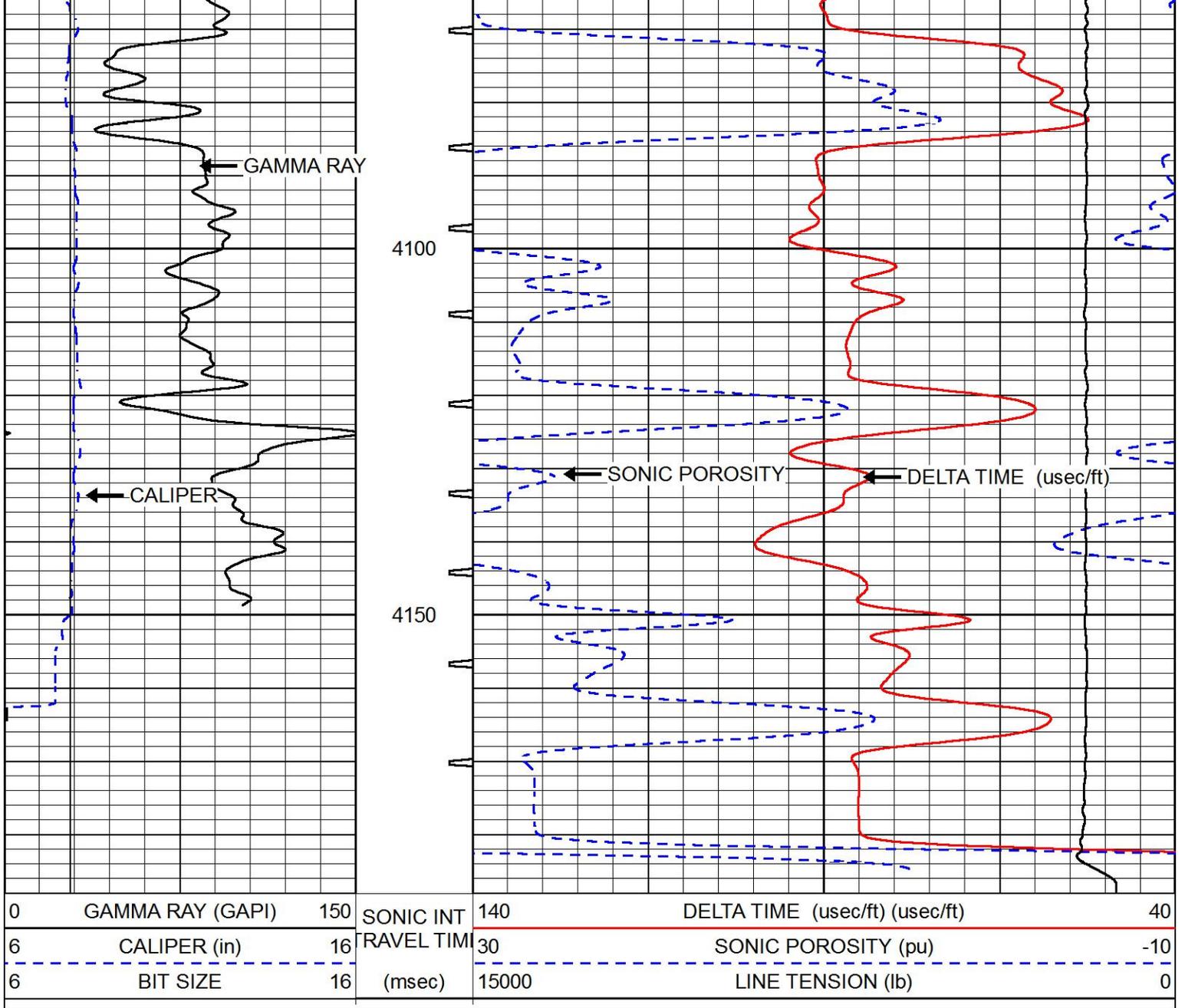








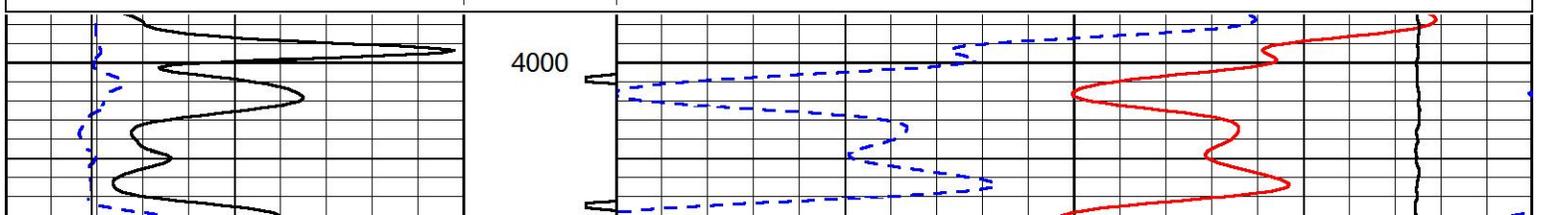


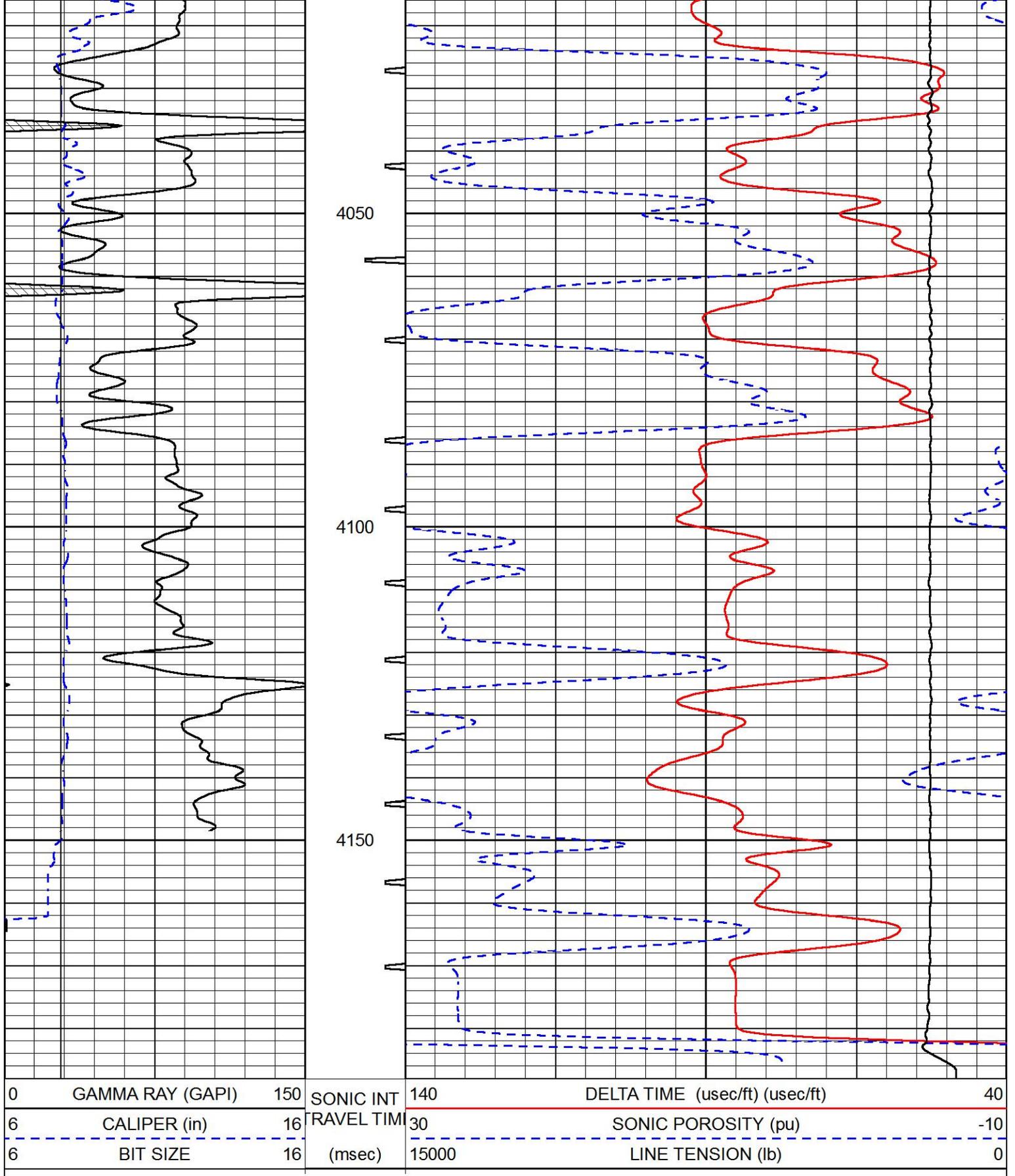


REPEAT SECTION

Database File murfin_popp_1_14.db
 Dataset Pathname stackml/pass2.1
 Presentation Format sonic
 Dataset Creation Wed Apr 18 15:22:06 2018
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft)	40
6	CALIPER (in)	16	TRAVEL TIME (msec)	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16		15000	LINE TENSION (lb)	0





Company MURFIN DRILLING COMPANY, INC.
 Well POPP NO. 1-14
 Field GENIE
 County SHERIDAN
 State KANSAS

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