



PIONEER

Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company BRITO OIL COMPANY, INC.

Well WERTH #1-35

Field WILDCAT

County GOVE State KANSAS

Location: API #: 15-063-22326-00-00

920' FNL & 990' FEL

Other Services
CNL/CDL
DIL/MEL

SEC 35 TWP 12S RGE 26W

Permanent Datum GROUND LEVEL Elevation 2579'

Log Measured From KELLY BUSHING

Drilling Measured From KELLY BUSHING

Elevation
K.B. 2589'
D.F. N/A
G.L. 2579'

Company BRITO OIL COMPANY, INC.
Well WERTH #1-35
Field WILDCAT
County GOVE
State KANSAS

Date 3/9/2018

Run Number TWO

Type Log BHCS

Depth Driller 4570'

Depth Logger 4568'

Bottom Logged Interval 4556'

Top Logged Interval 200'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 3400

Density 9.3

Level FULL

Max. Rec. Temp. F 122

Operating Rig Time 5 HOURS

Equipment -- Location 91 HAYS

Recorded By D. SCHMIDT

Witnessed By ROBERT HENDRIX

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	224'	8.625"	23#	0'	224'
TWO	7.875"	224'	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.

COLLYER,
SOUTH TO K RD, 1 WEST, 1 SOUTH, 2 WEST,
SOUTHWEST INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

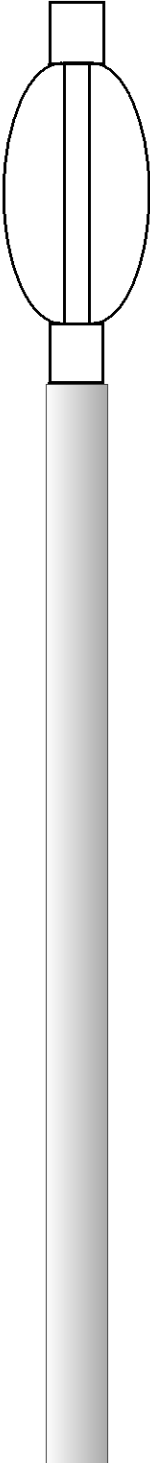
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

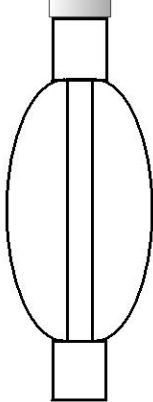
This Log Record Was Witnessed By

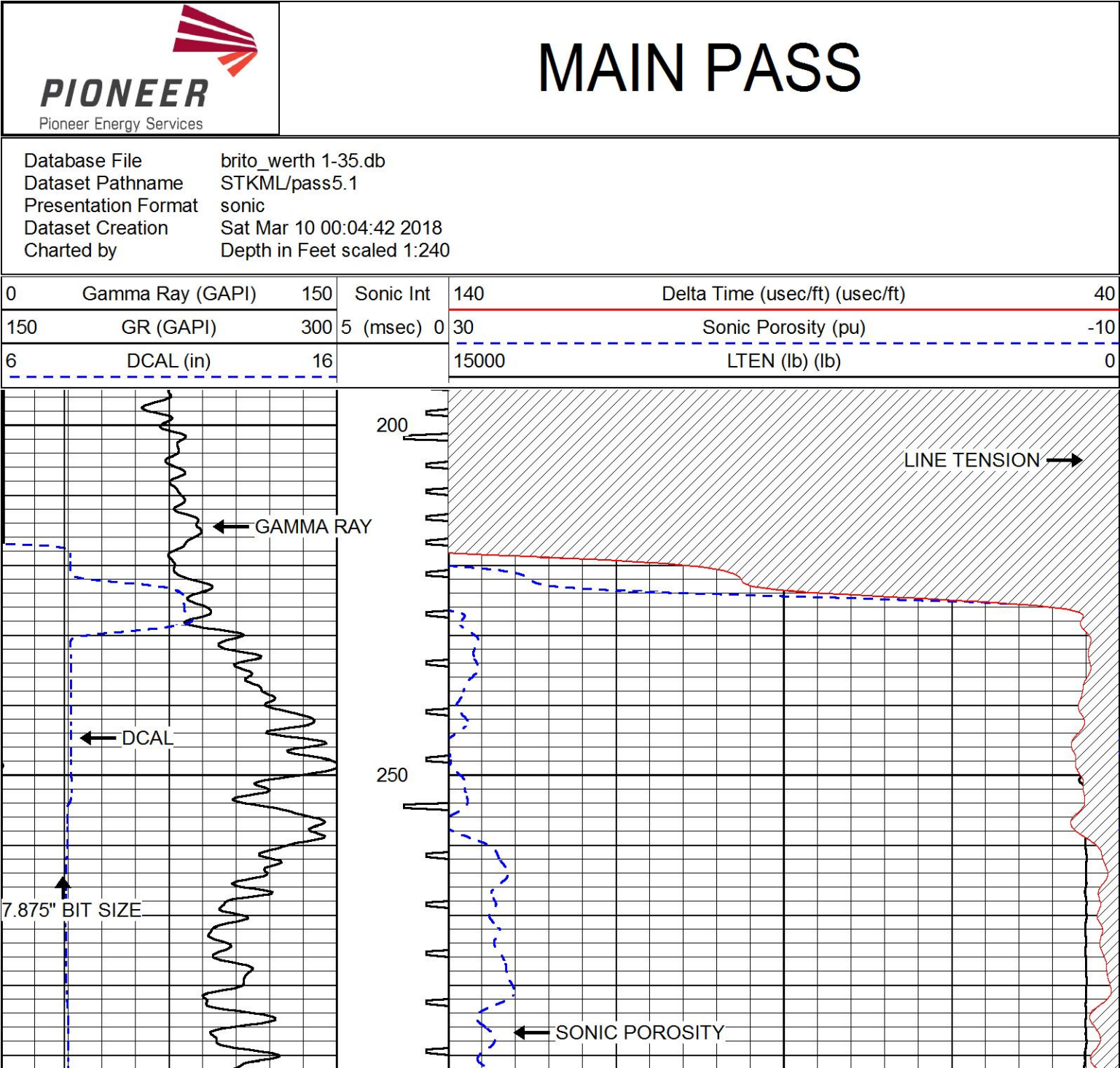
Primary Witness: ROBERT HENDRIX
Secondary Witness:
Secondary Witness:
Secondary Witness:

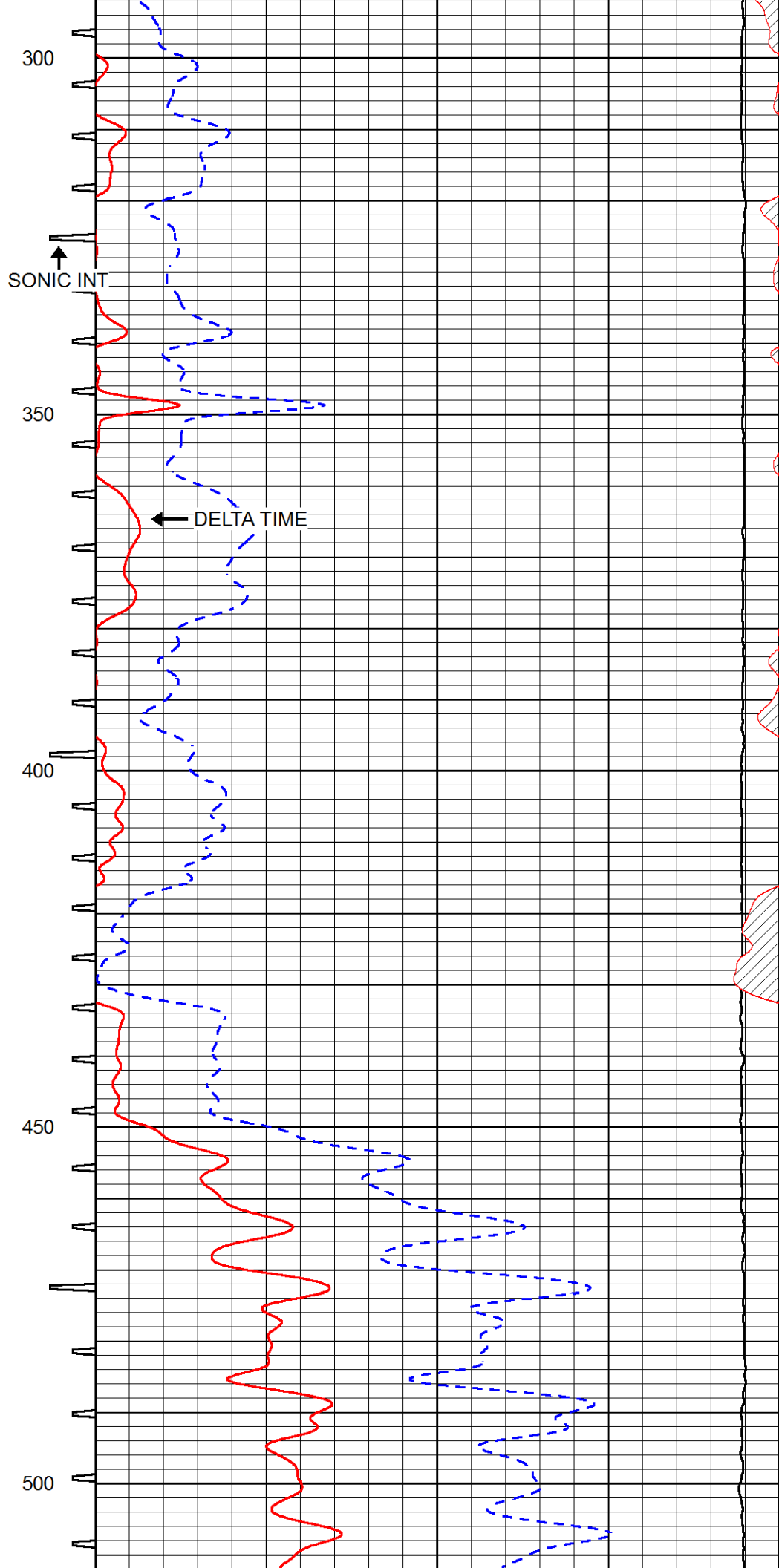
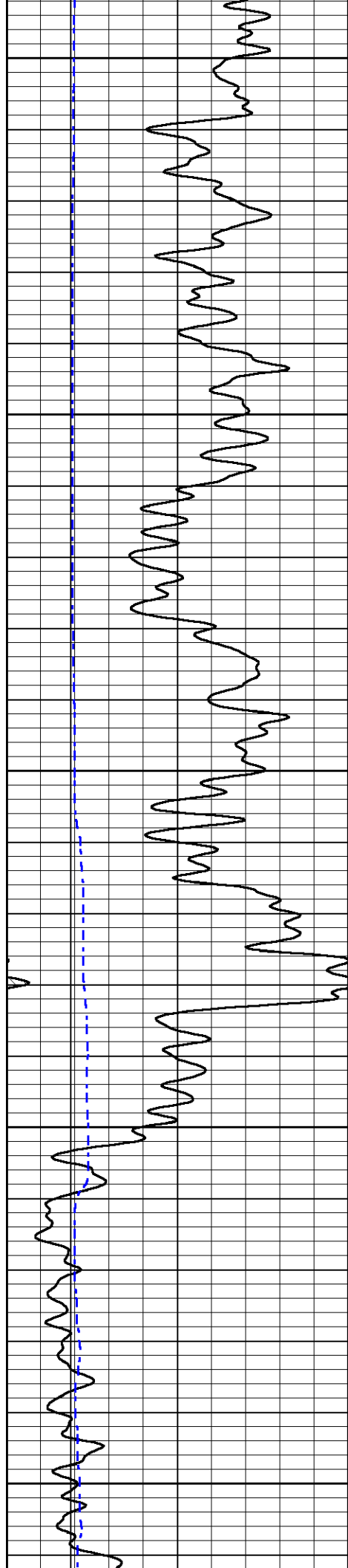
Top - Bottom

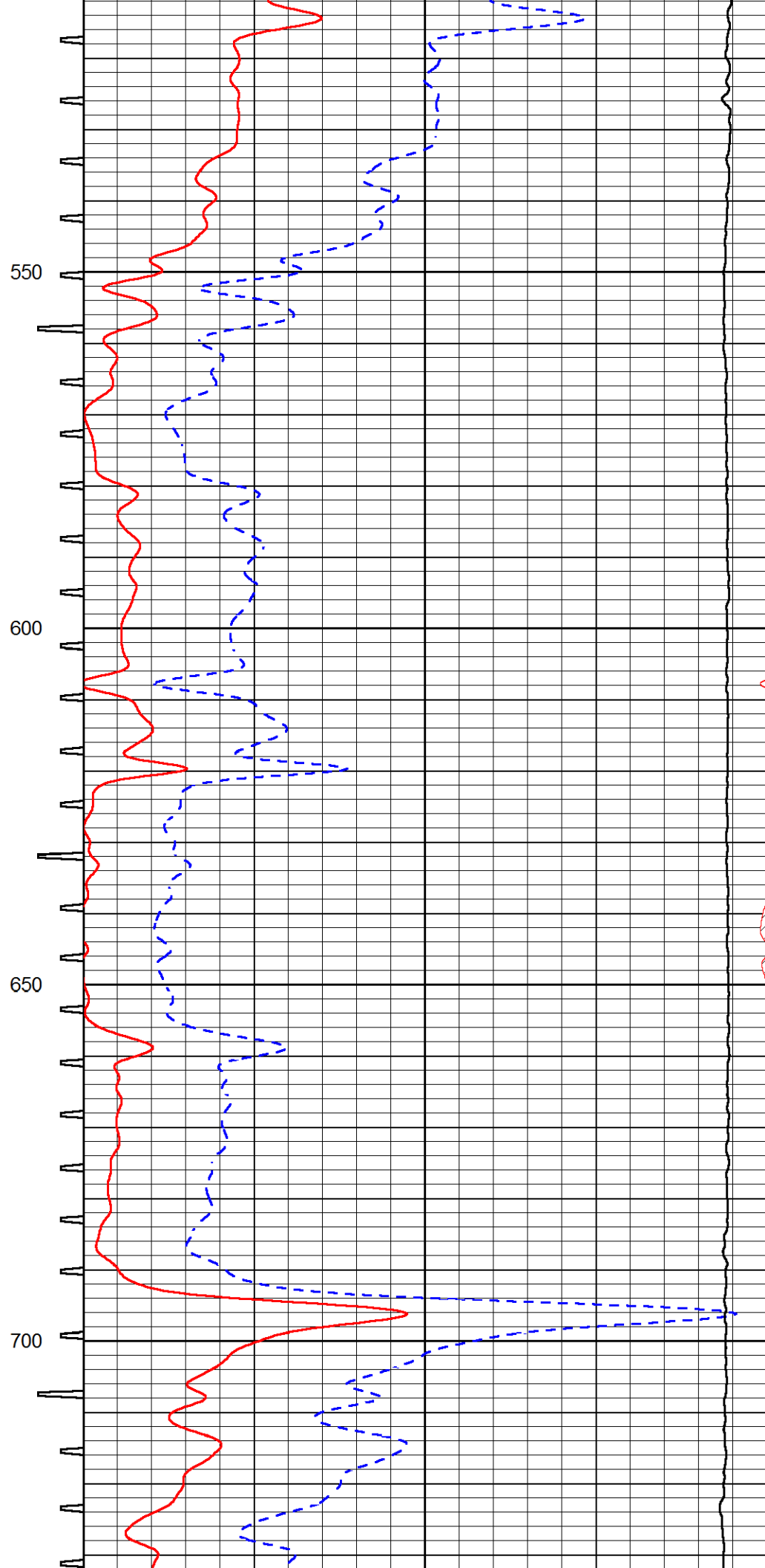
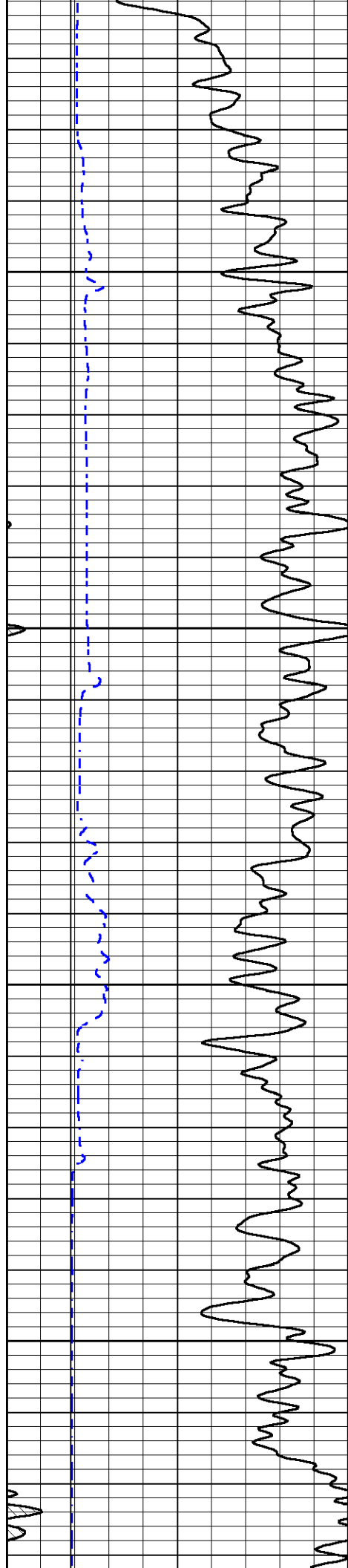
M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	20	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	4568	122	7.875

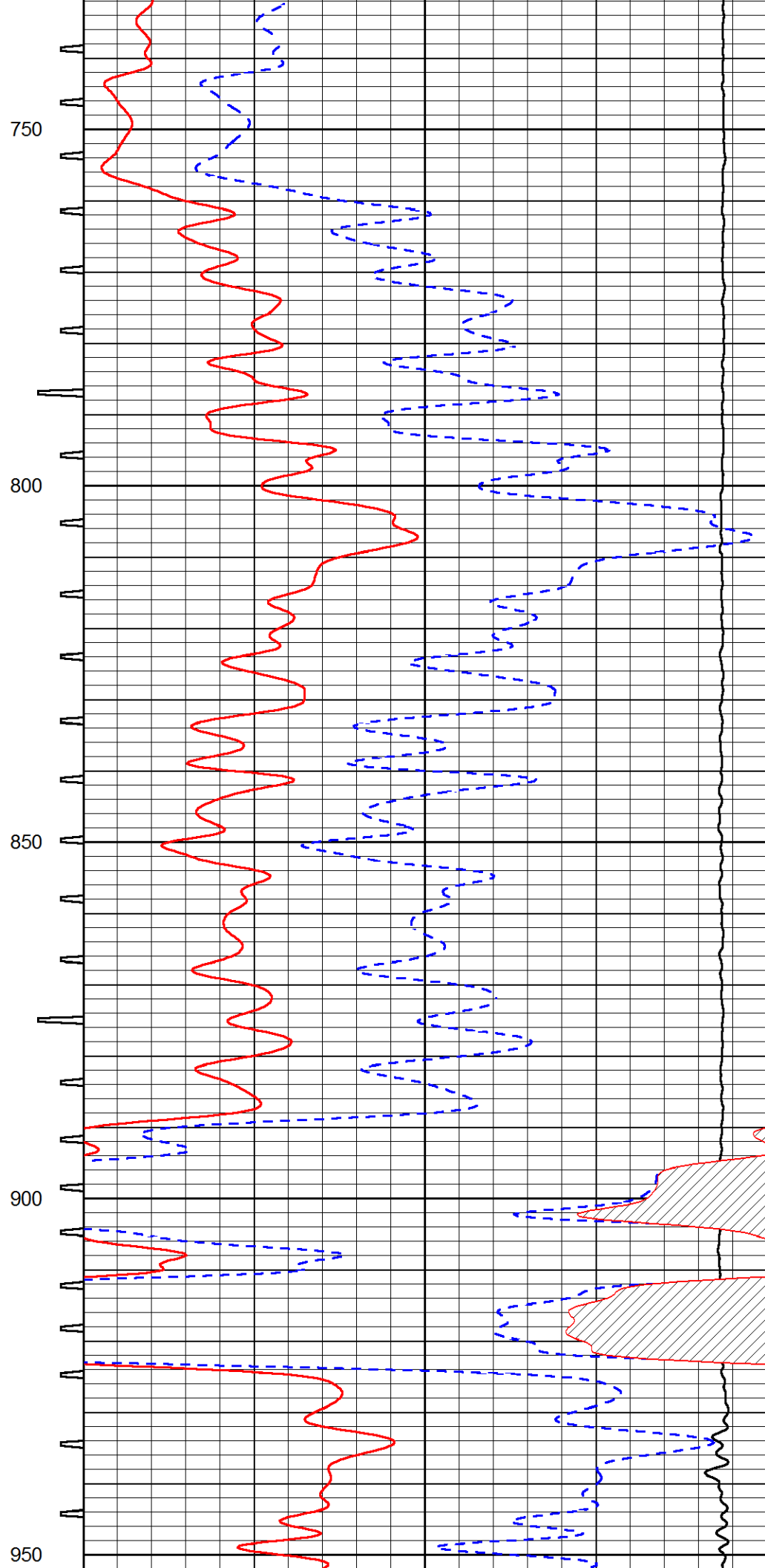
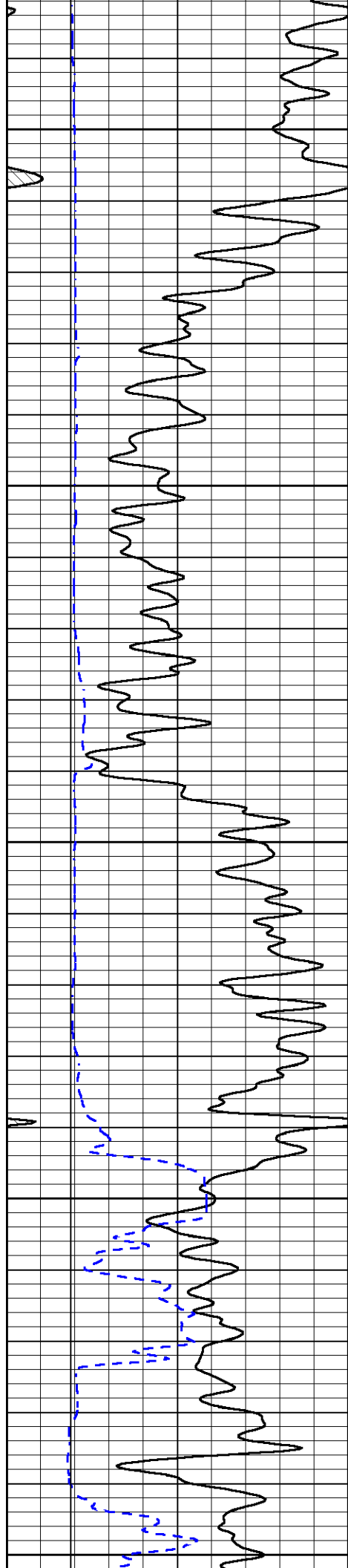
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-PENGO (3-PENGO)	5.50	3.00	70.00
WVF4 WVF1	13.50 13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	11.50 11.50					

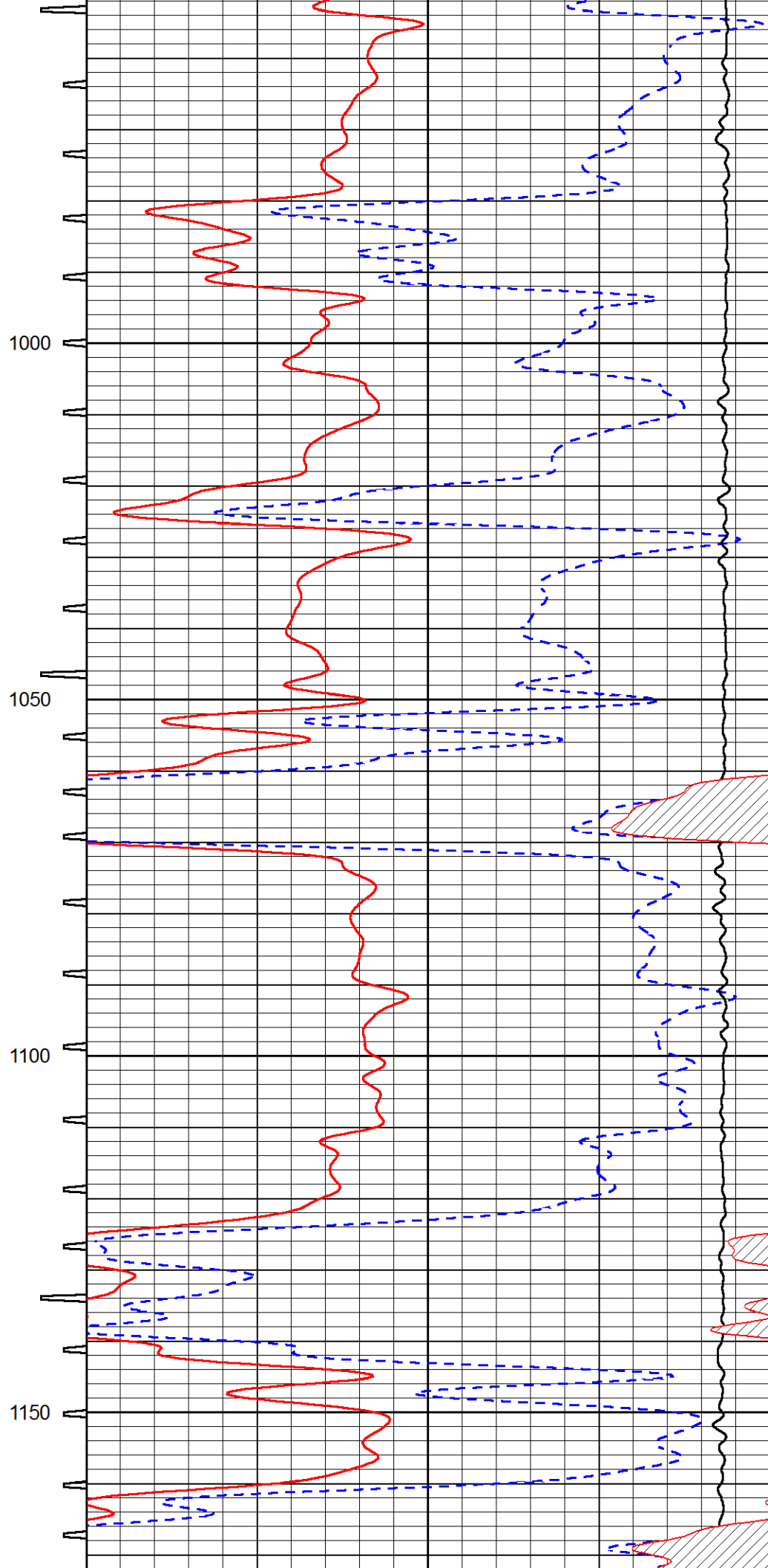
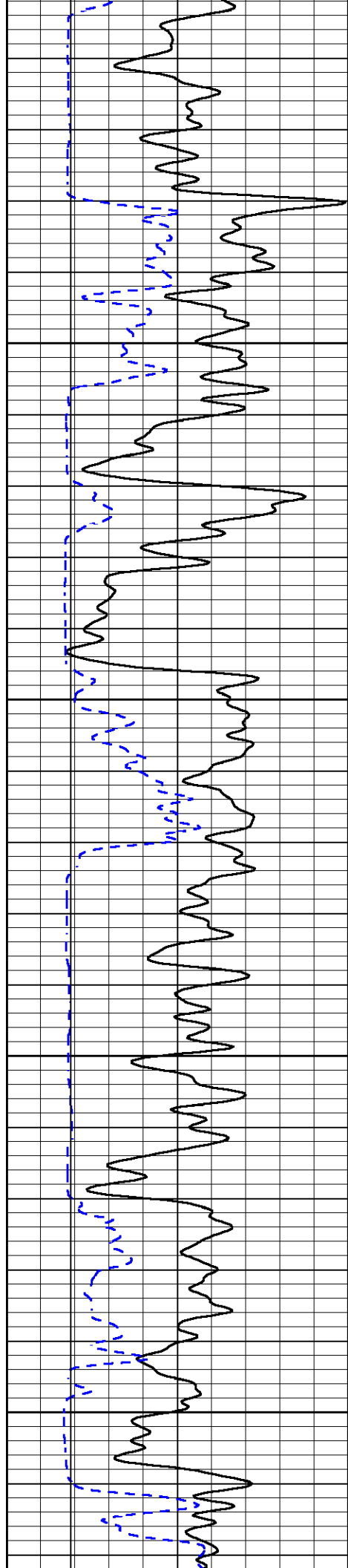
		CENT-PENGO (4-PENGO)	5.50	3.00	70.00
Dataset: Total length: Total weight: O.D.:		brito_werth 1-35.db: field/well/SON/pass2 27.00 ft 440.00 lb 3.50 in			

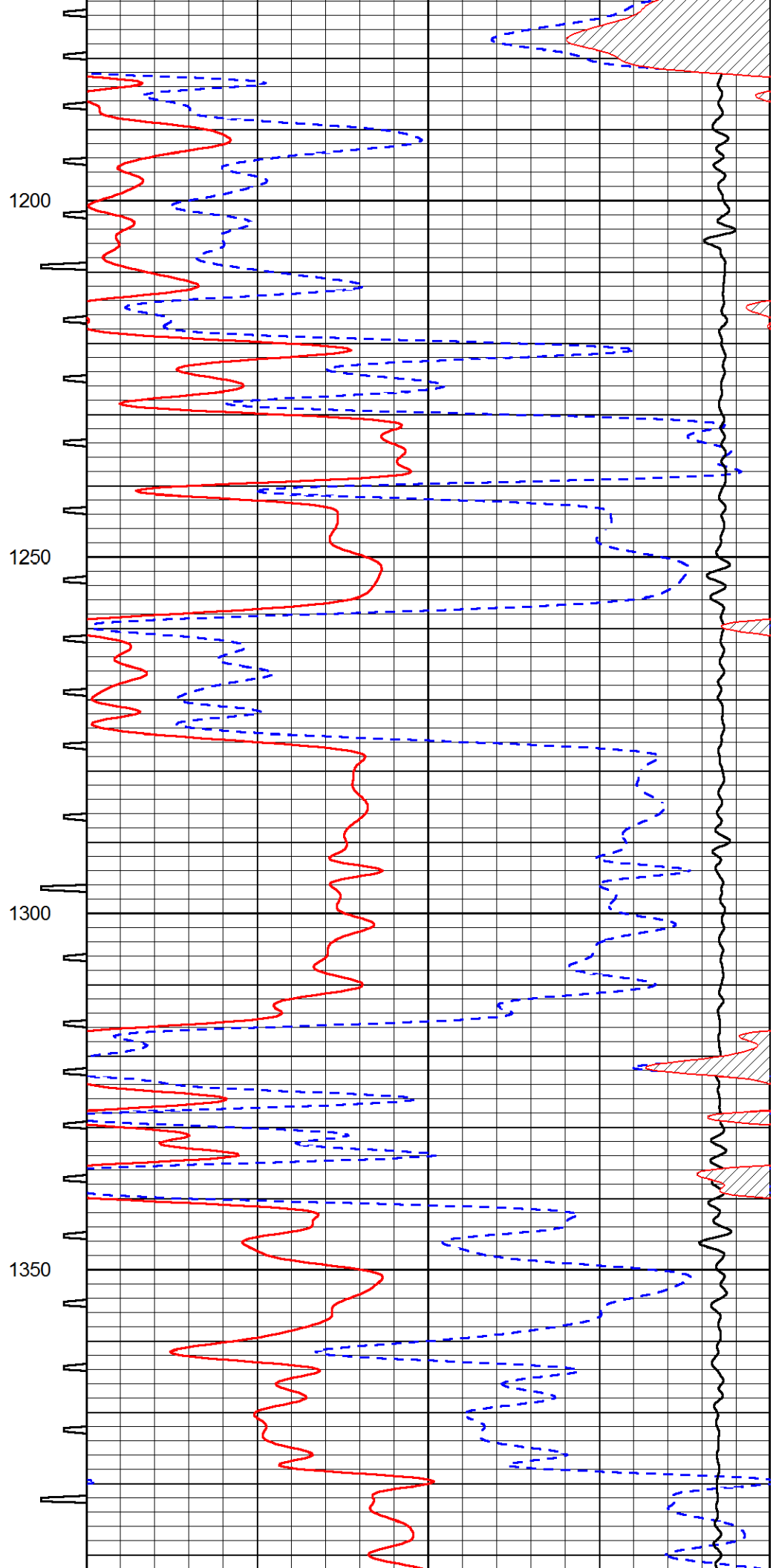
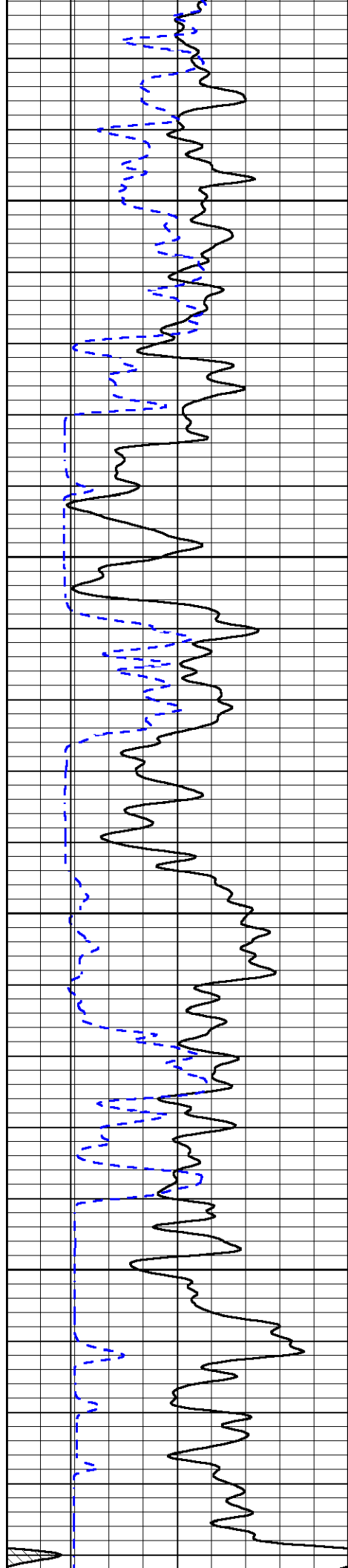


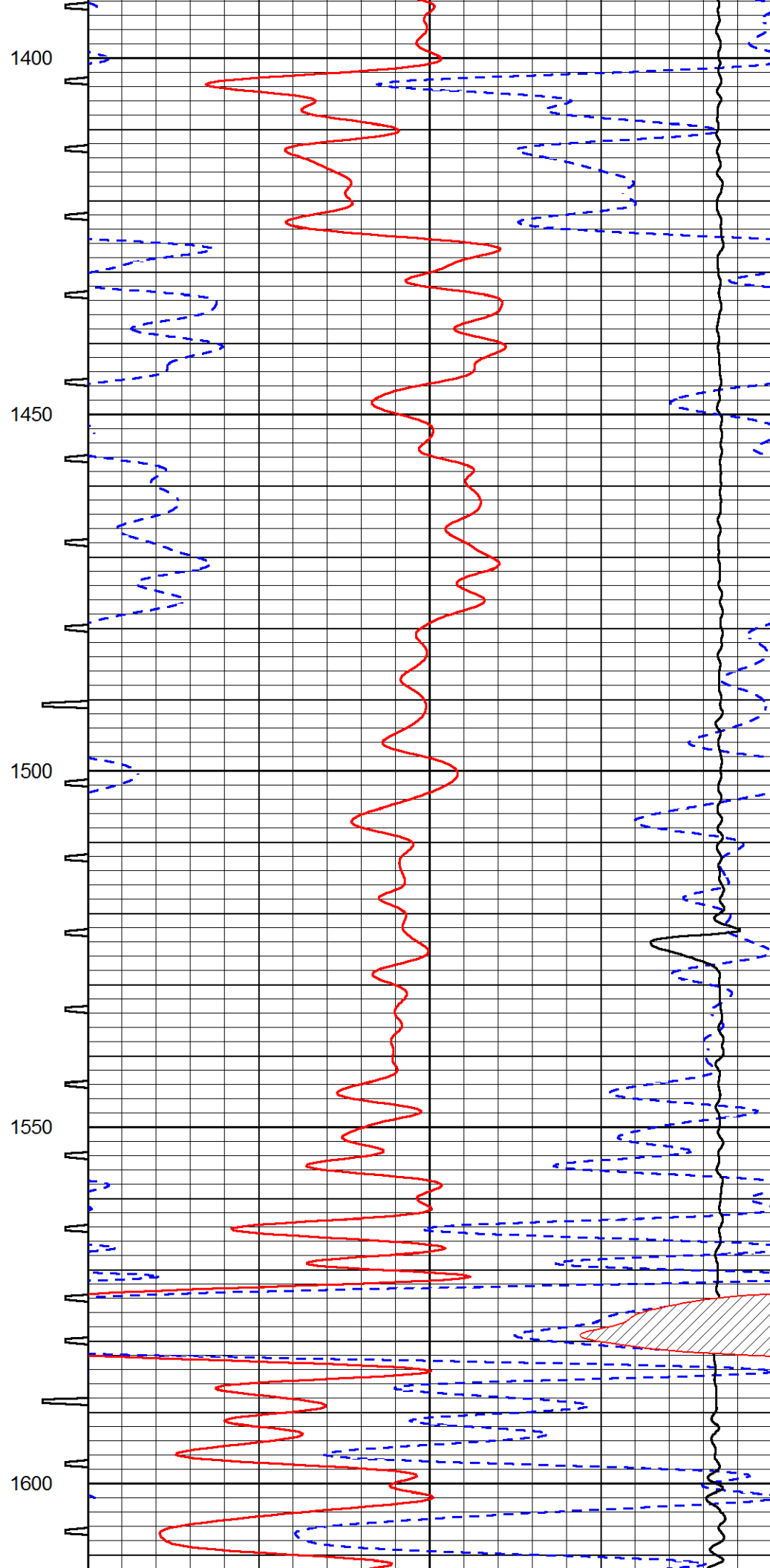
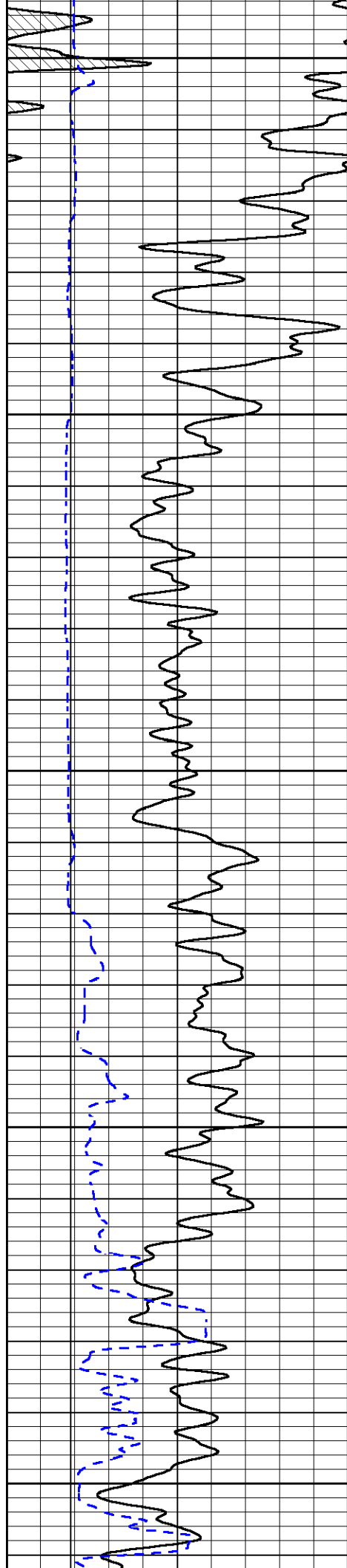


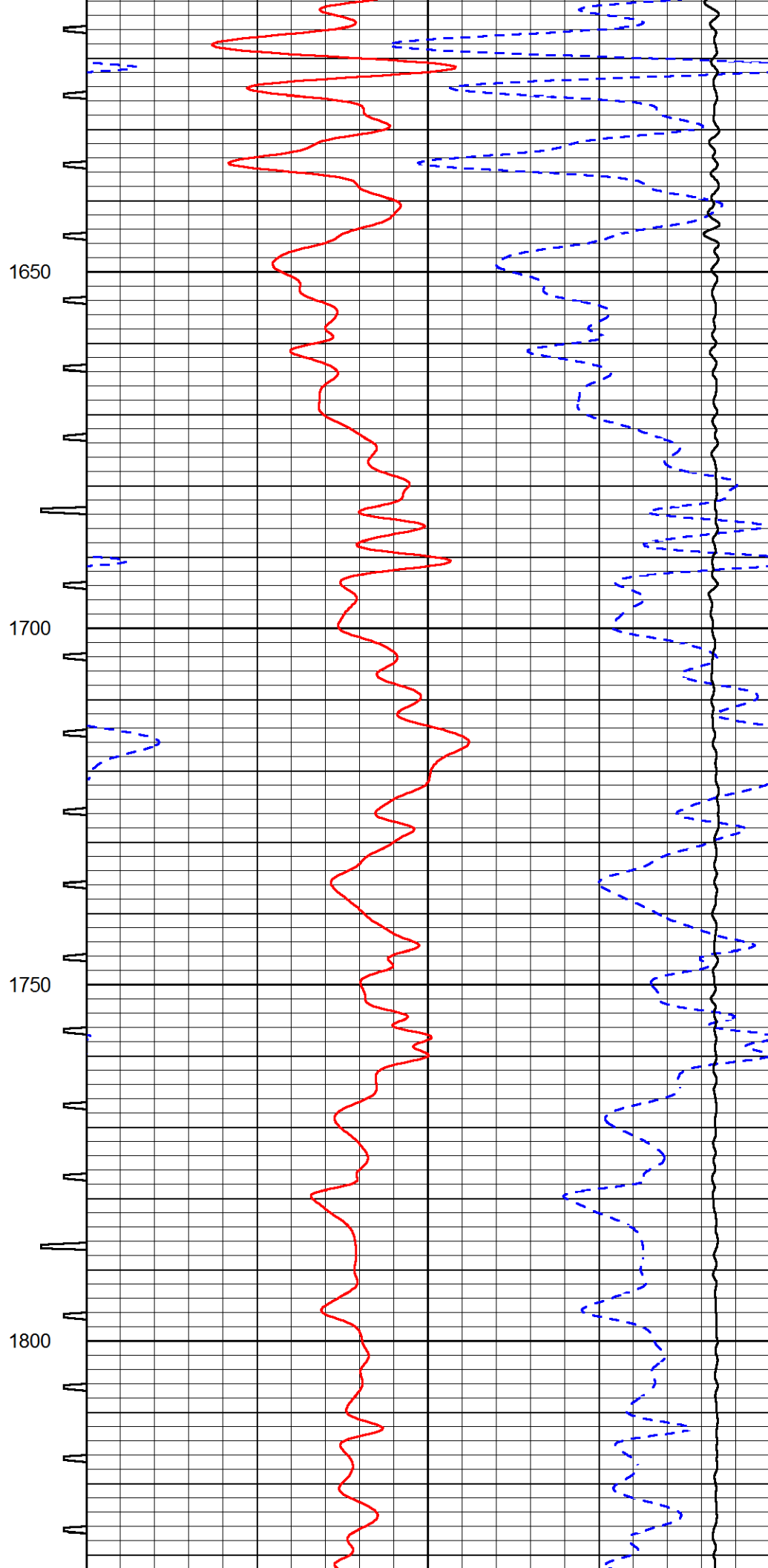
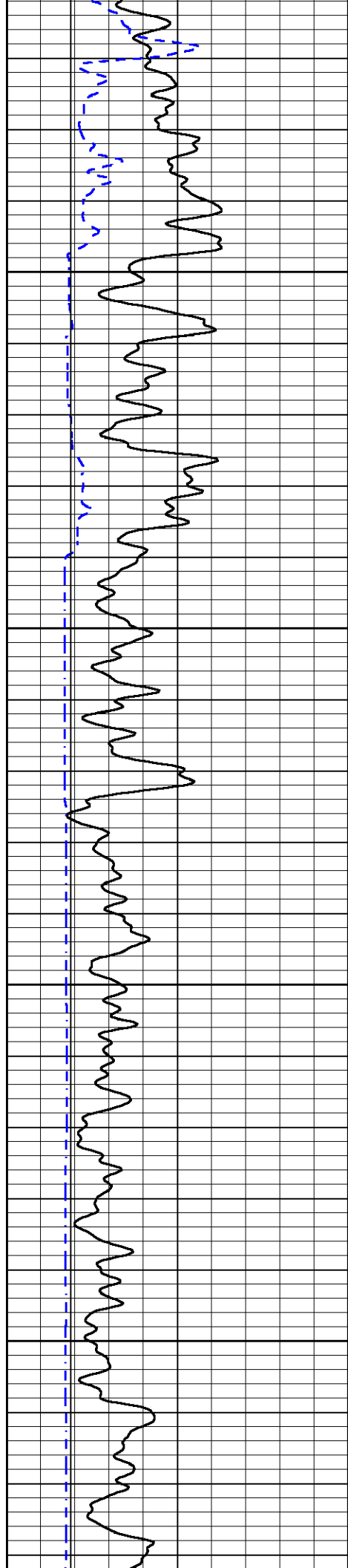


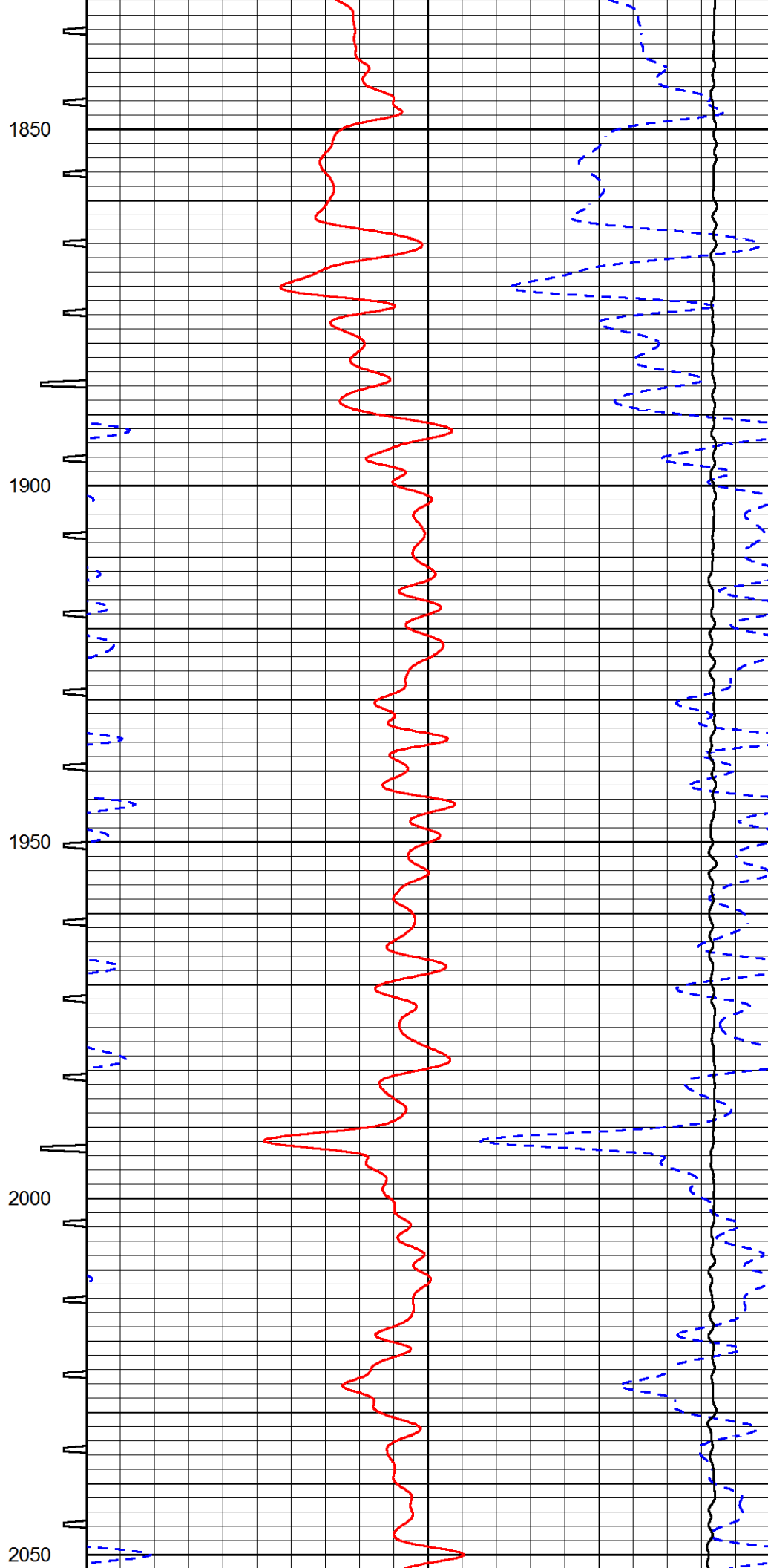
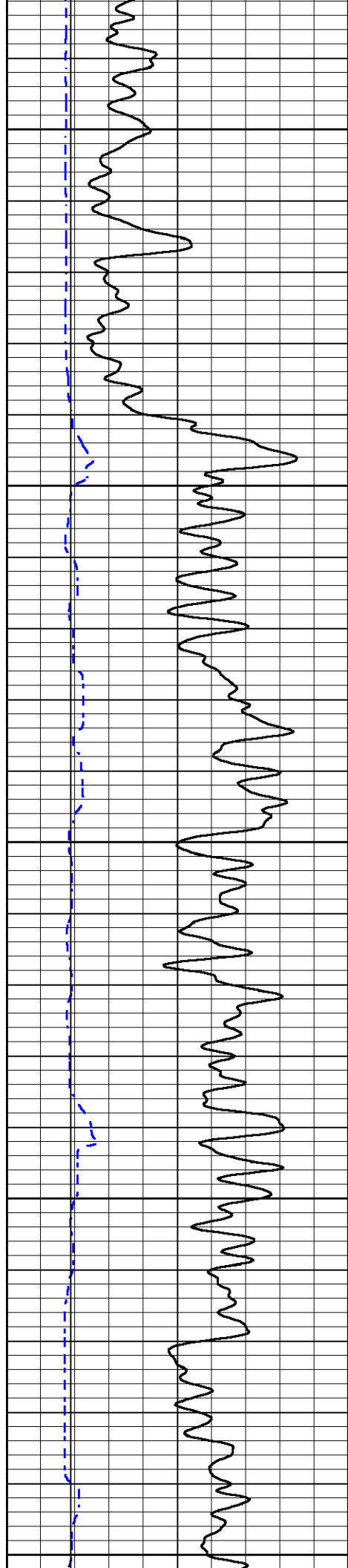


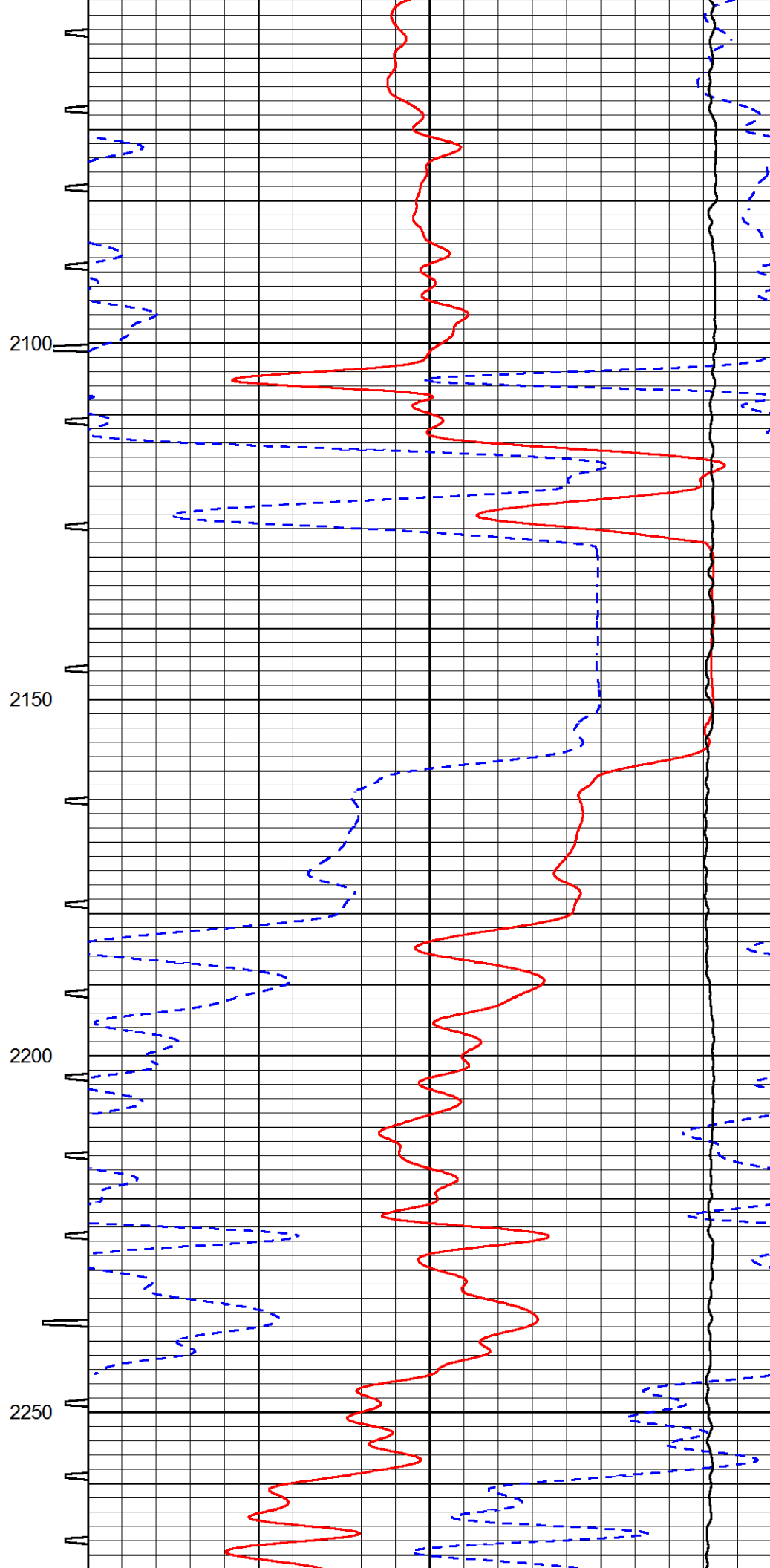
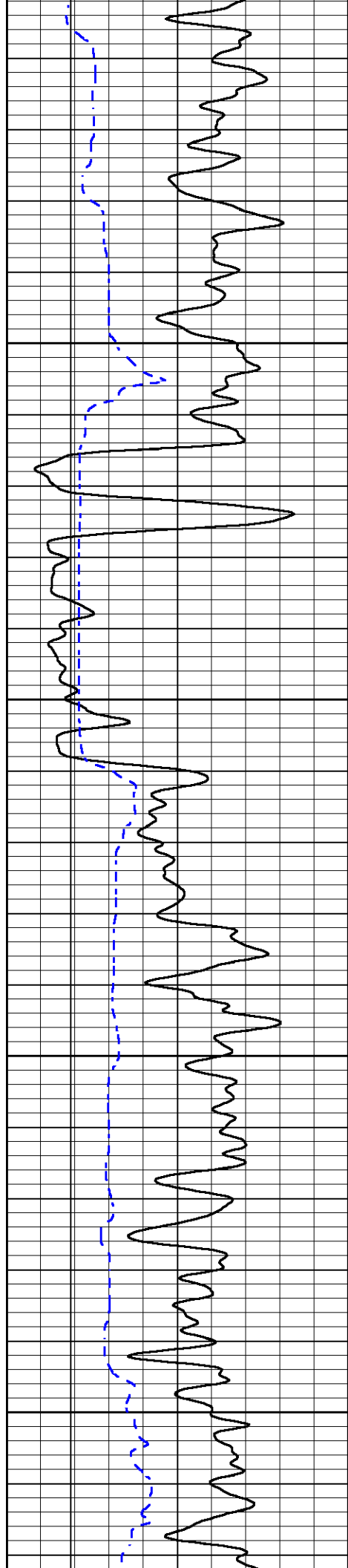


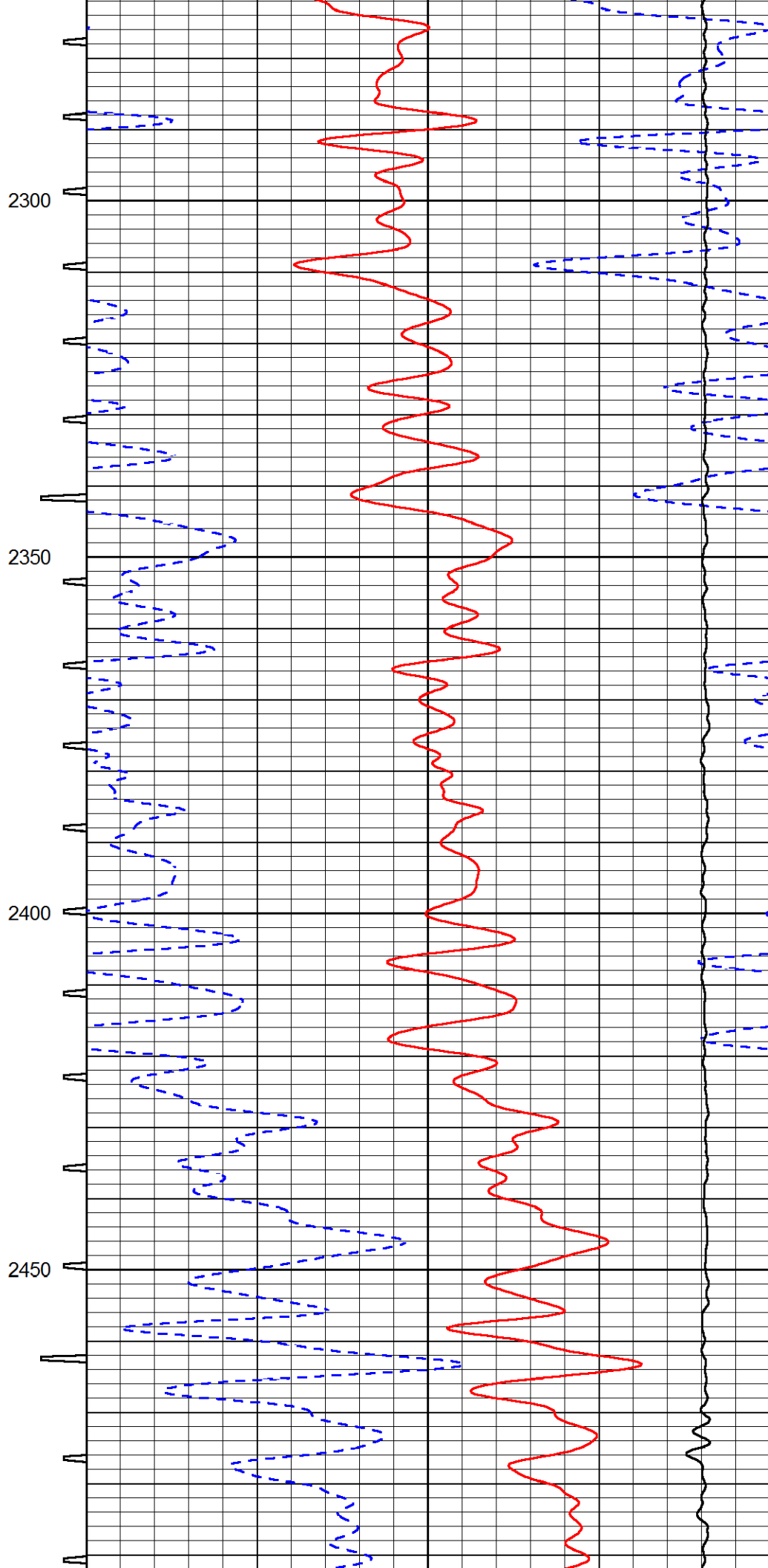
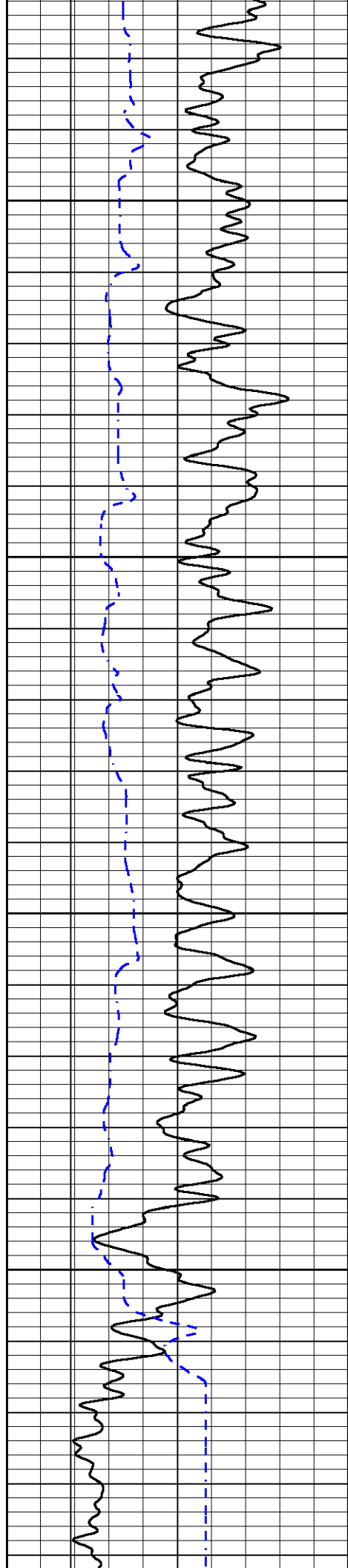


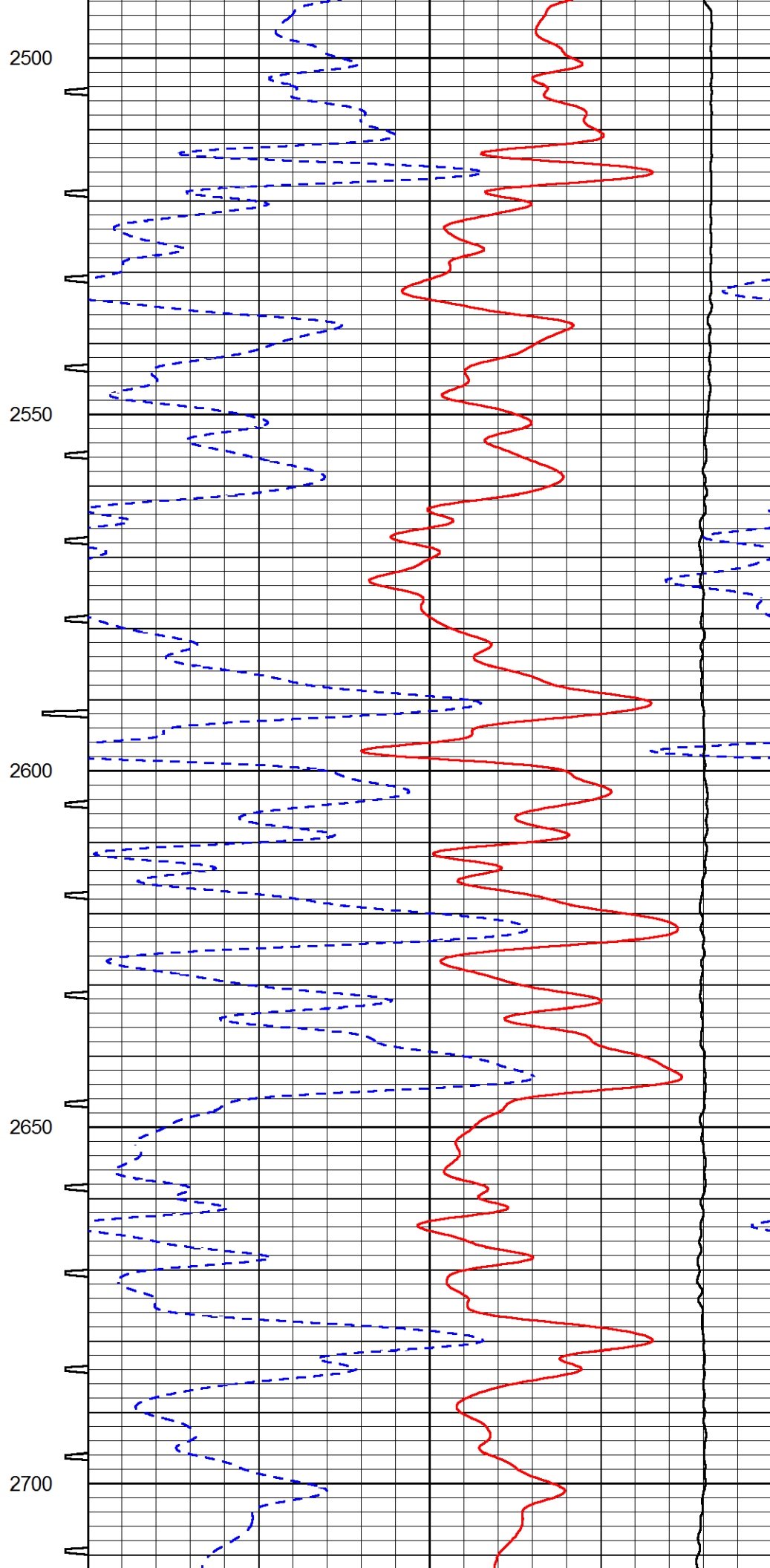
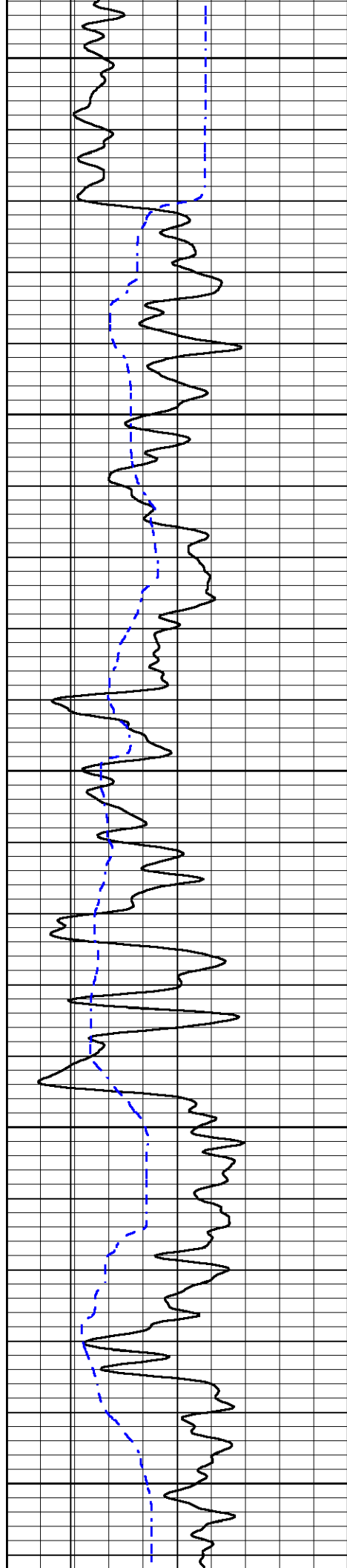


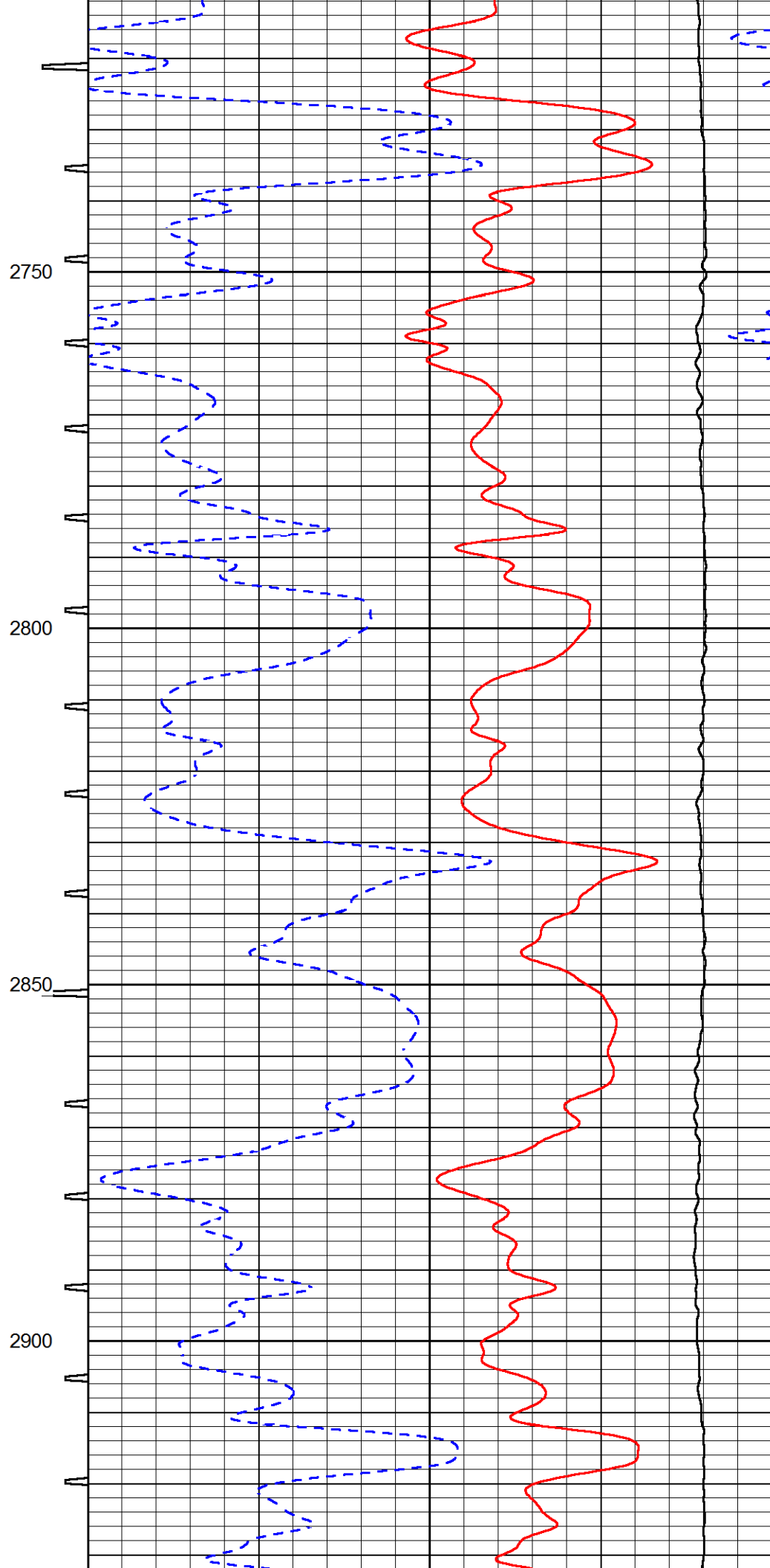
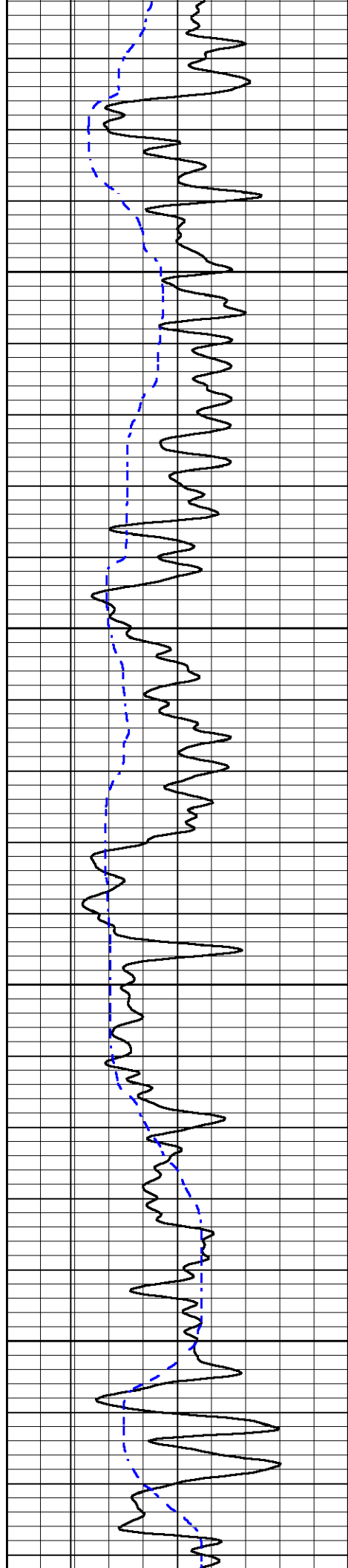


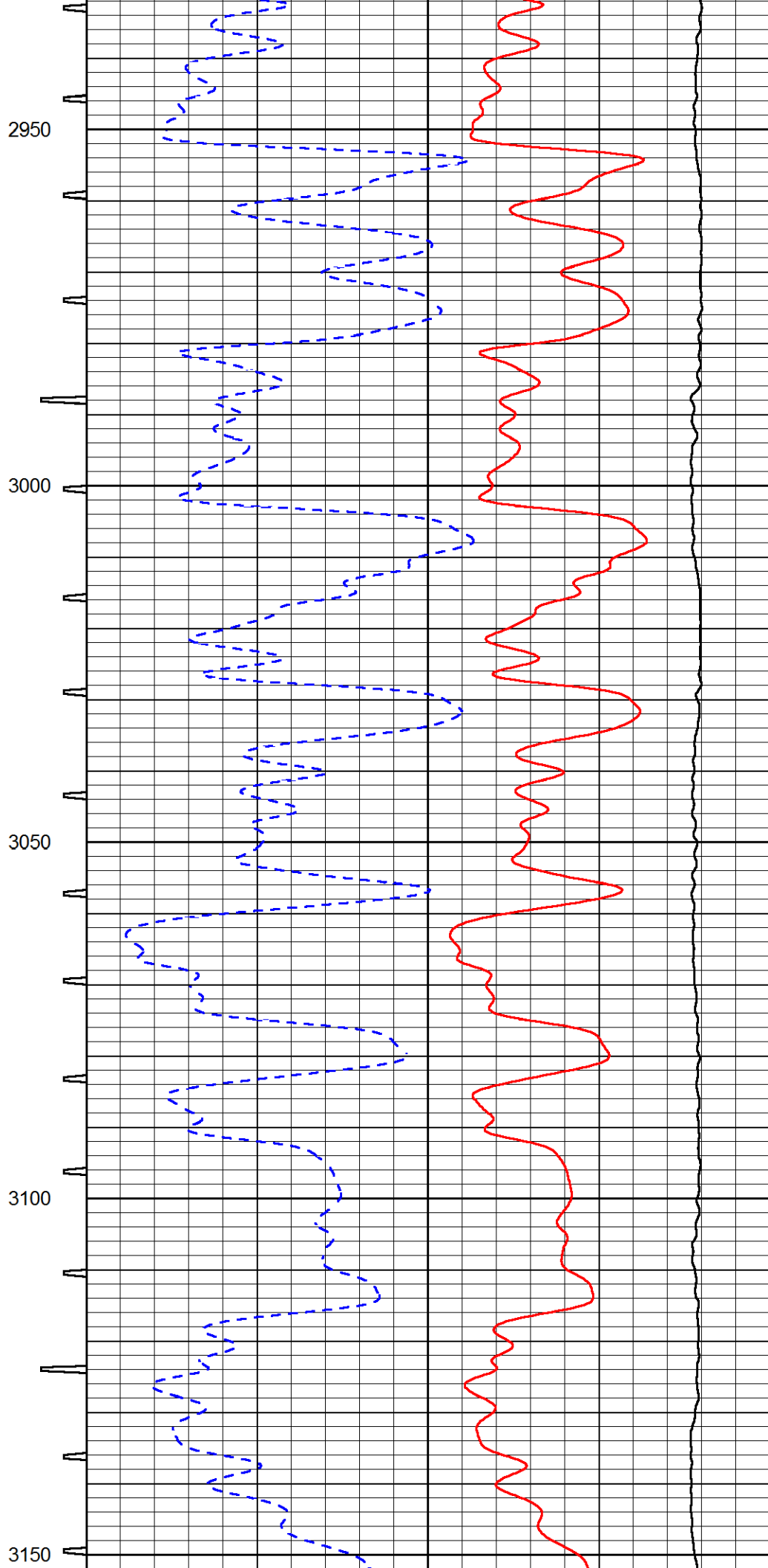
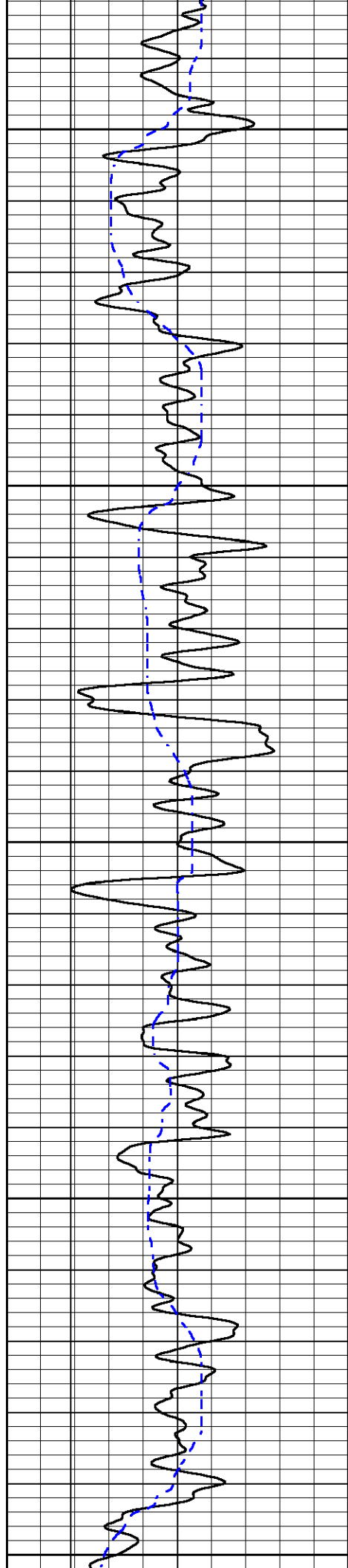


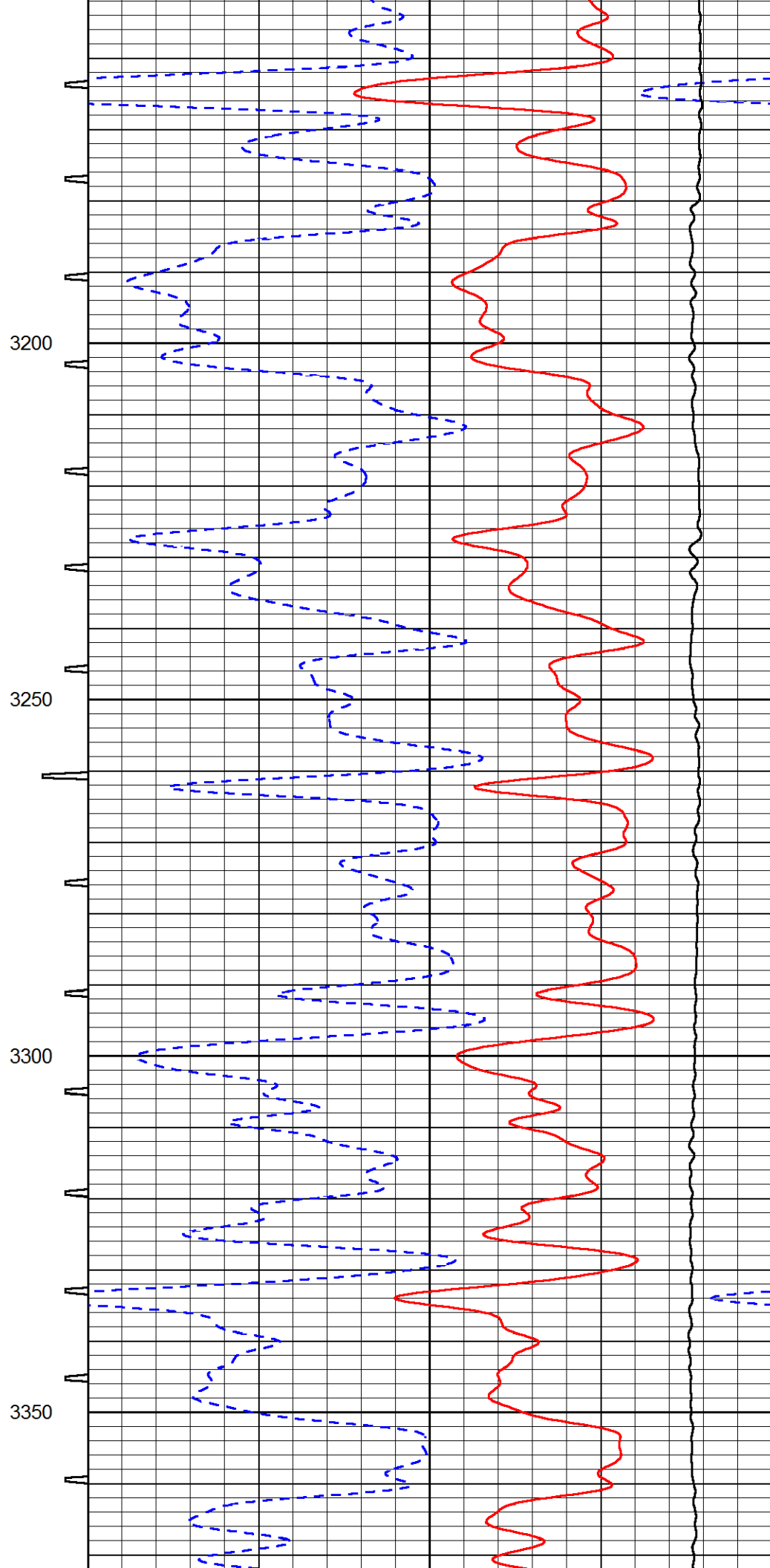
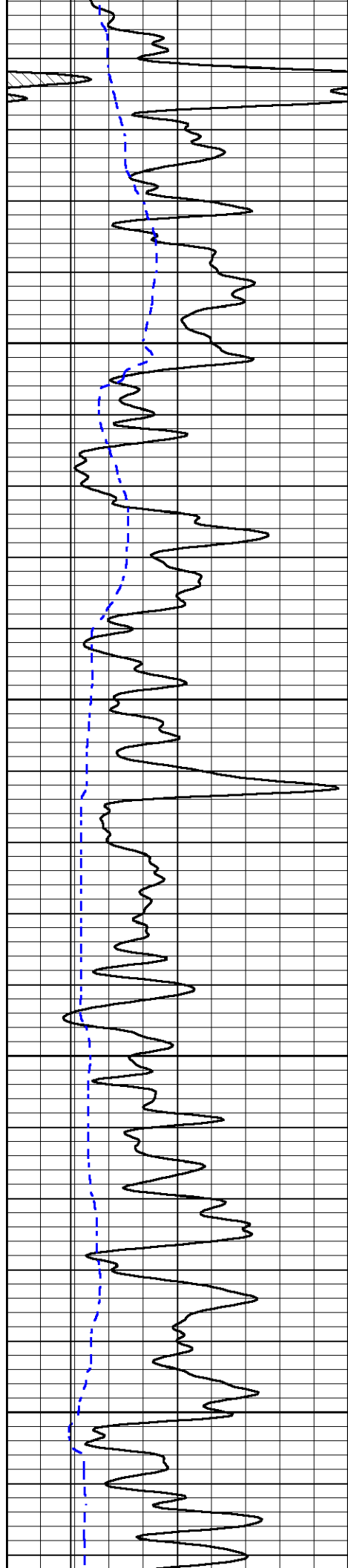


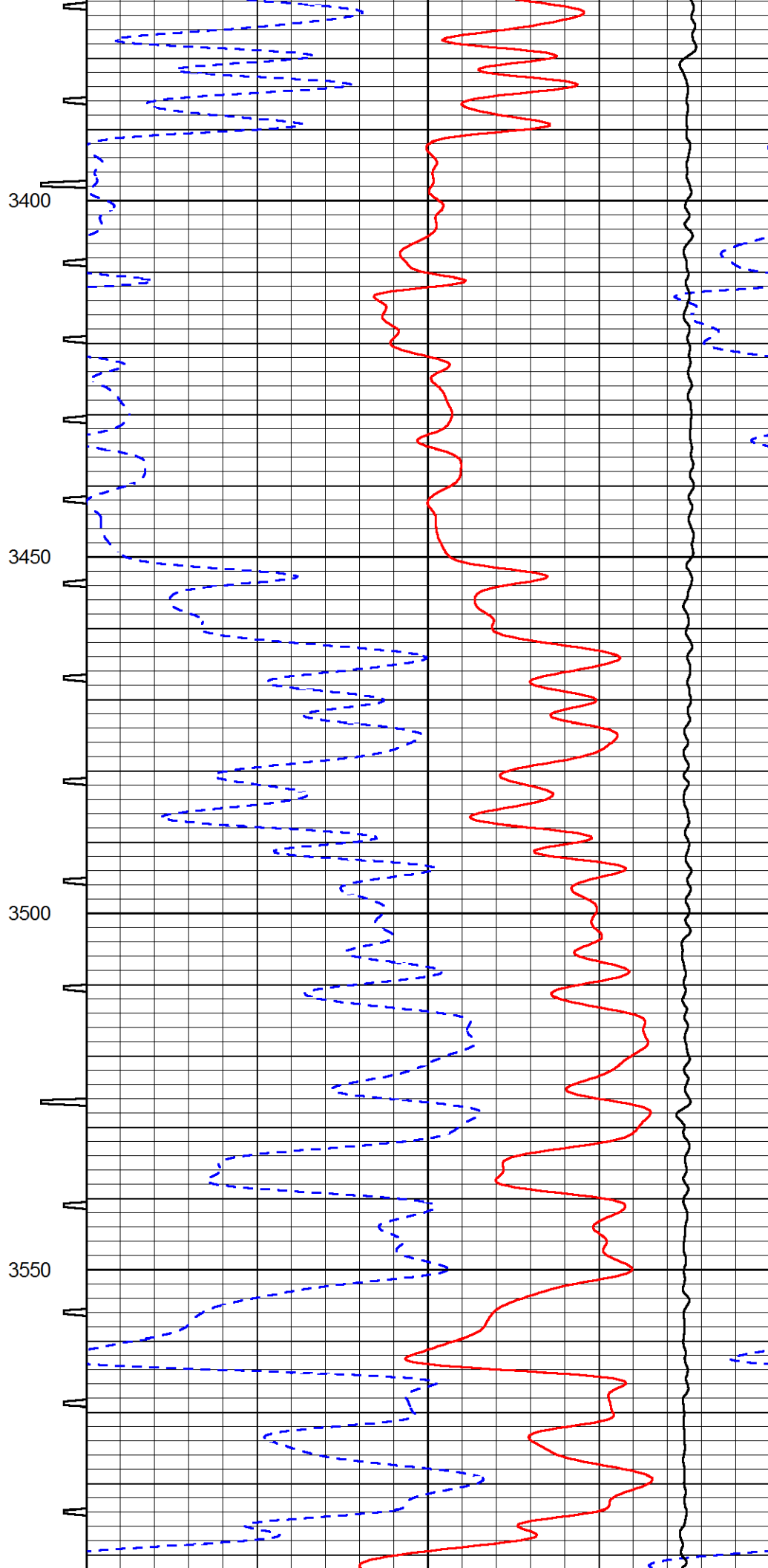
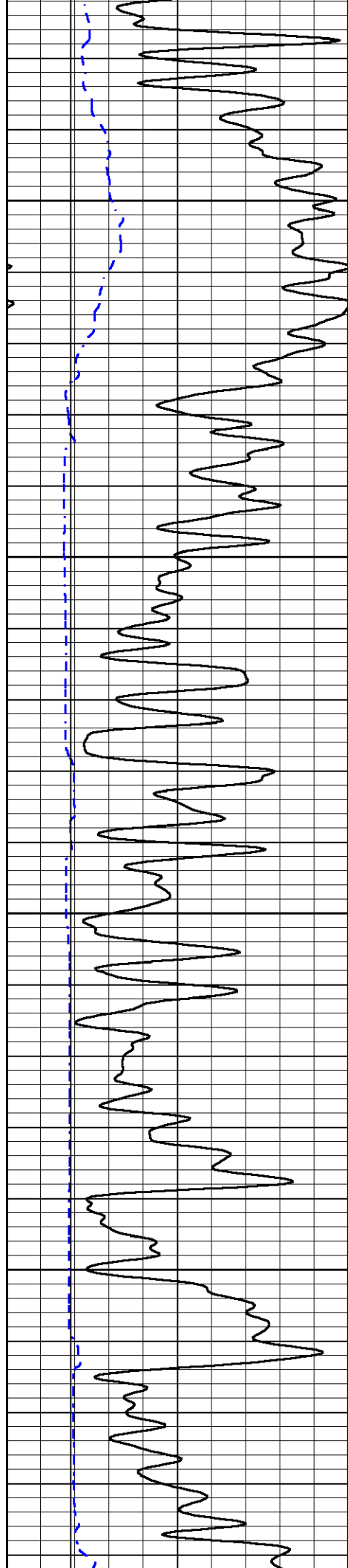


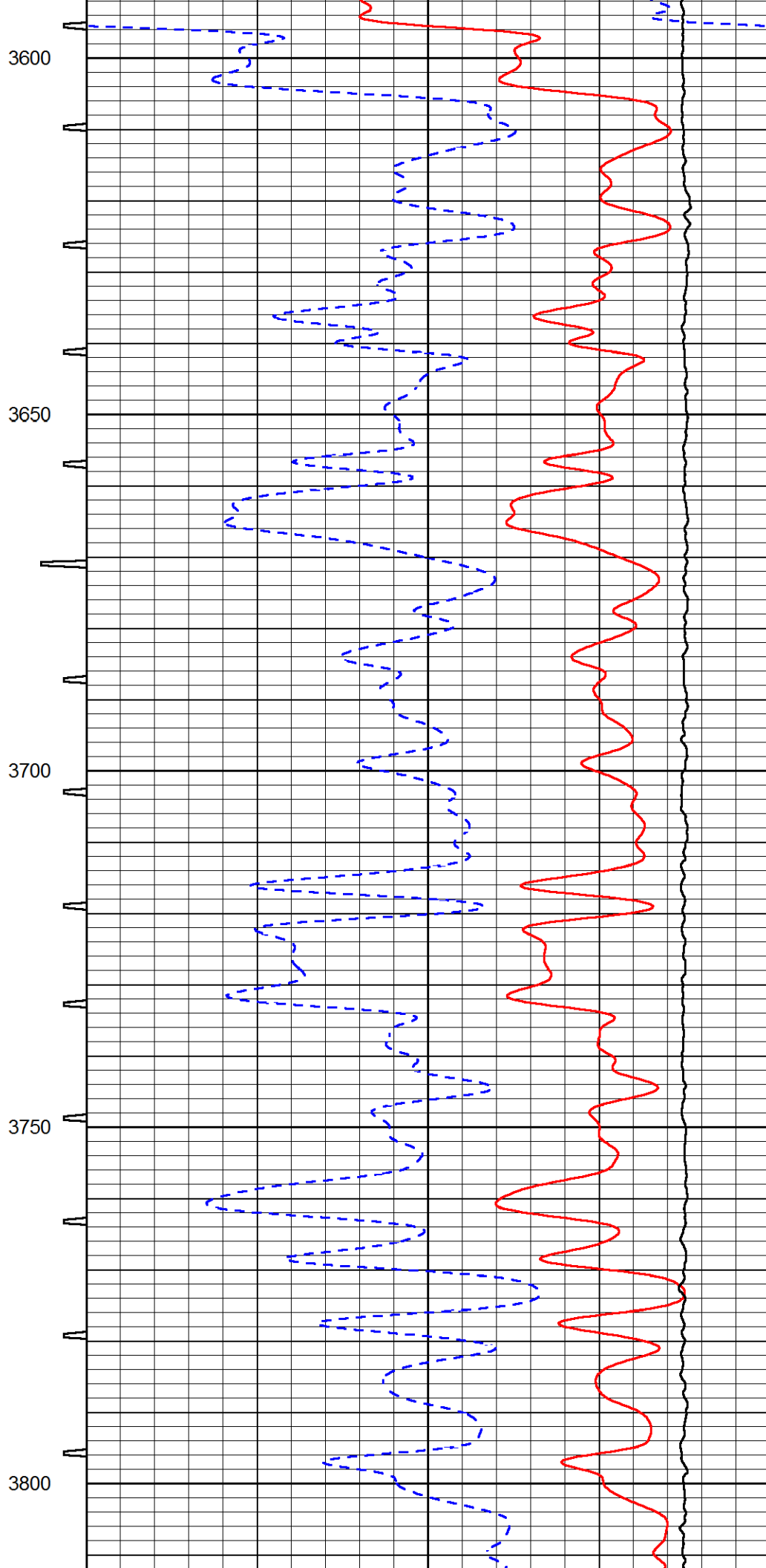
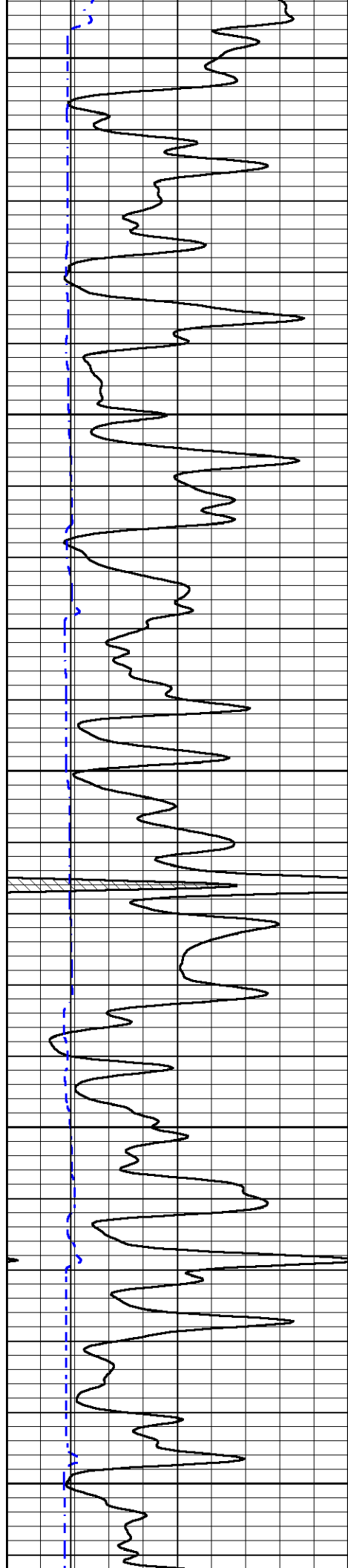


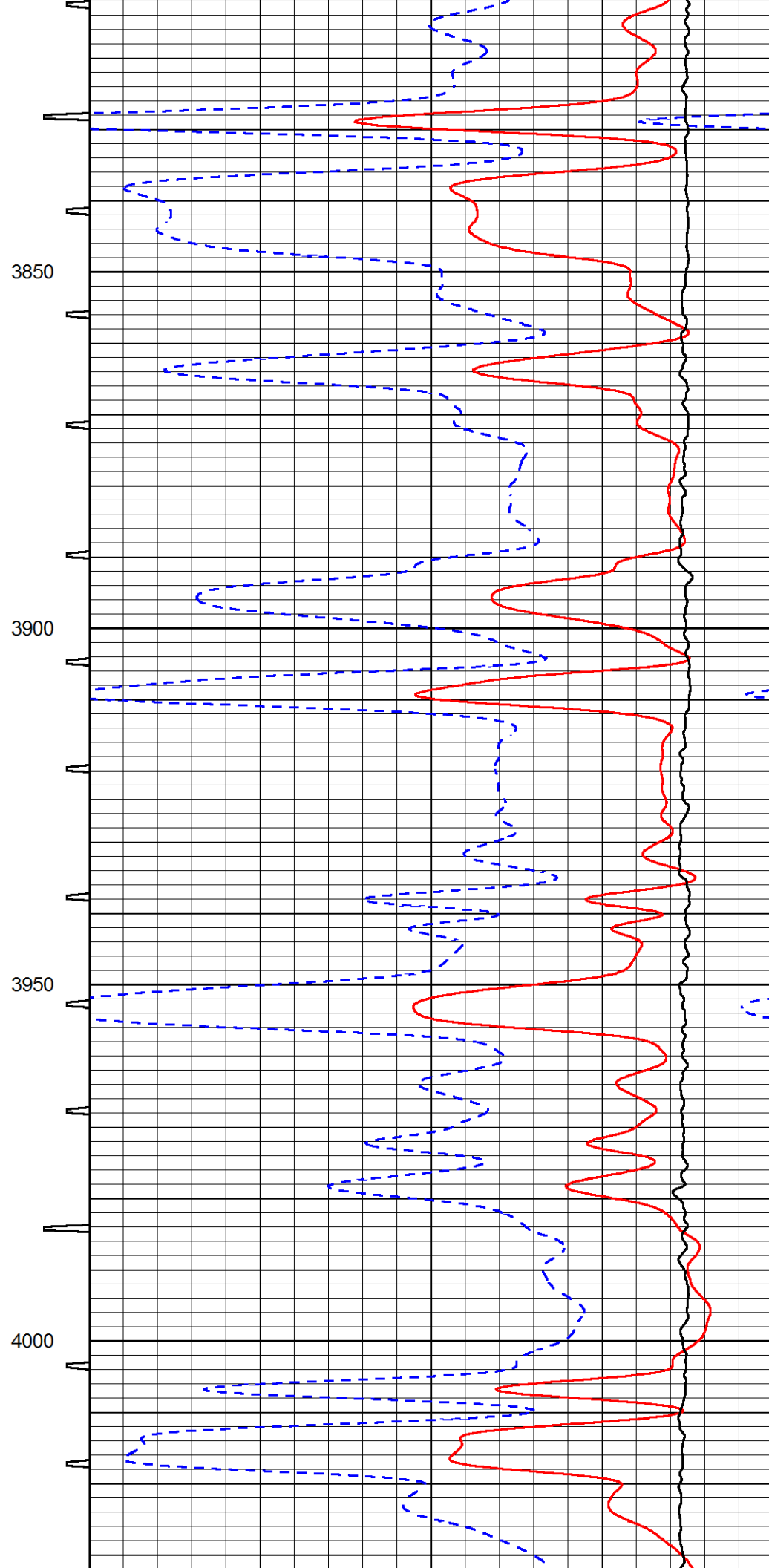
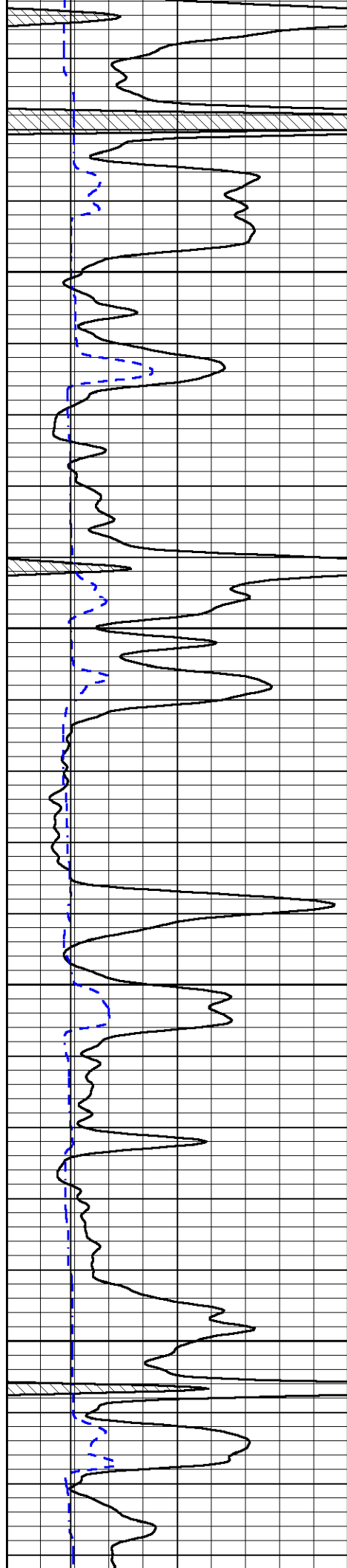


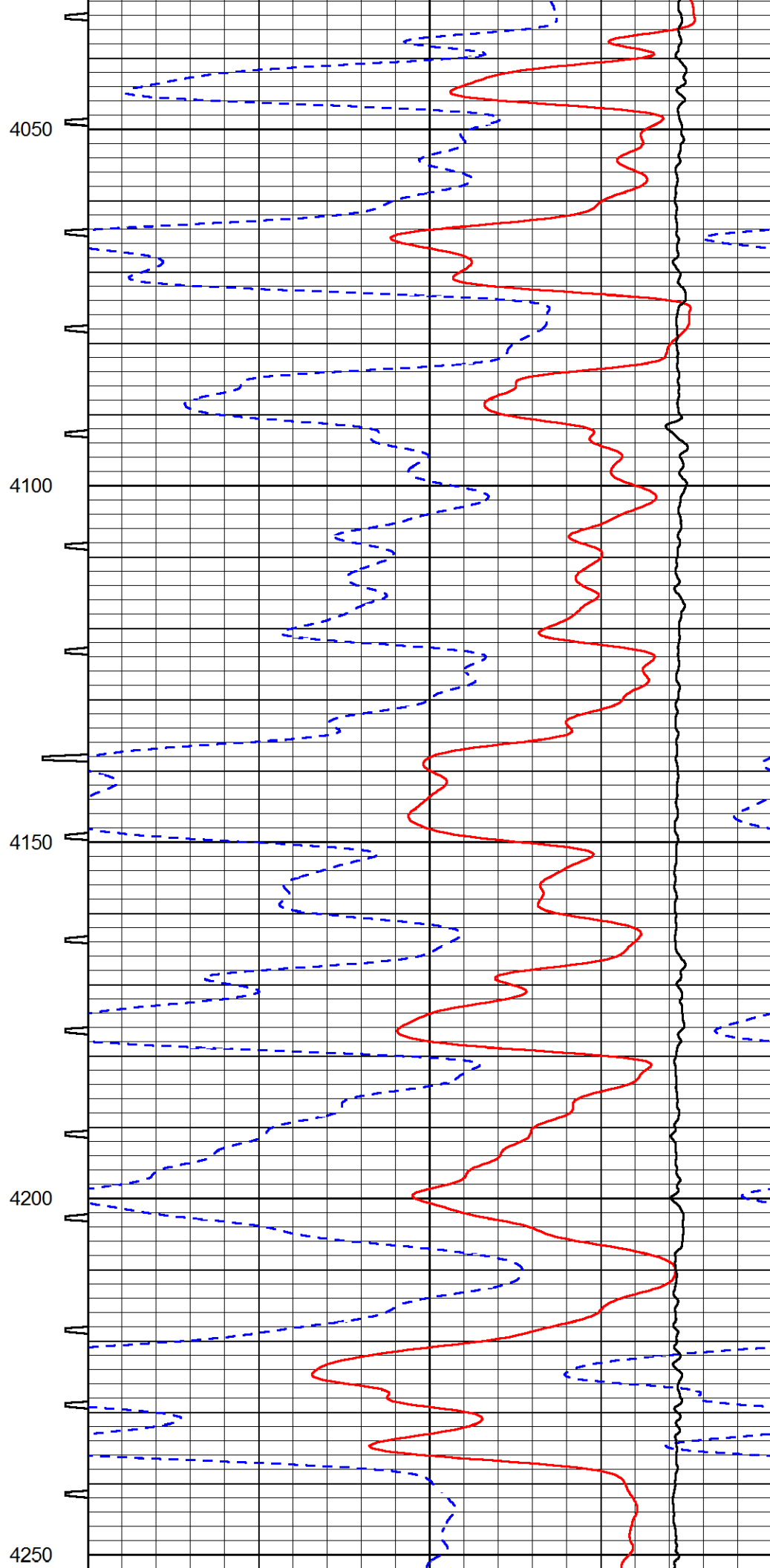
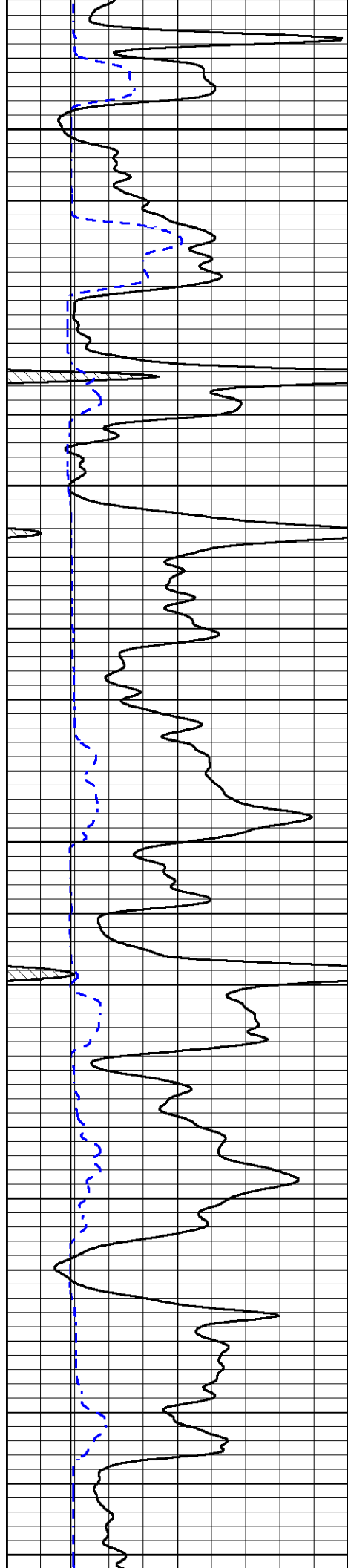


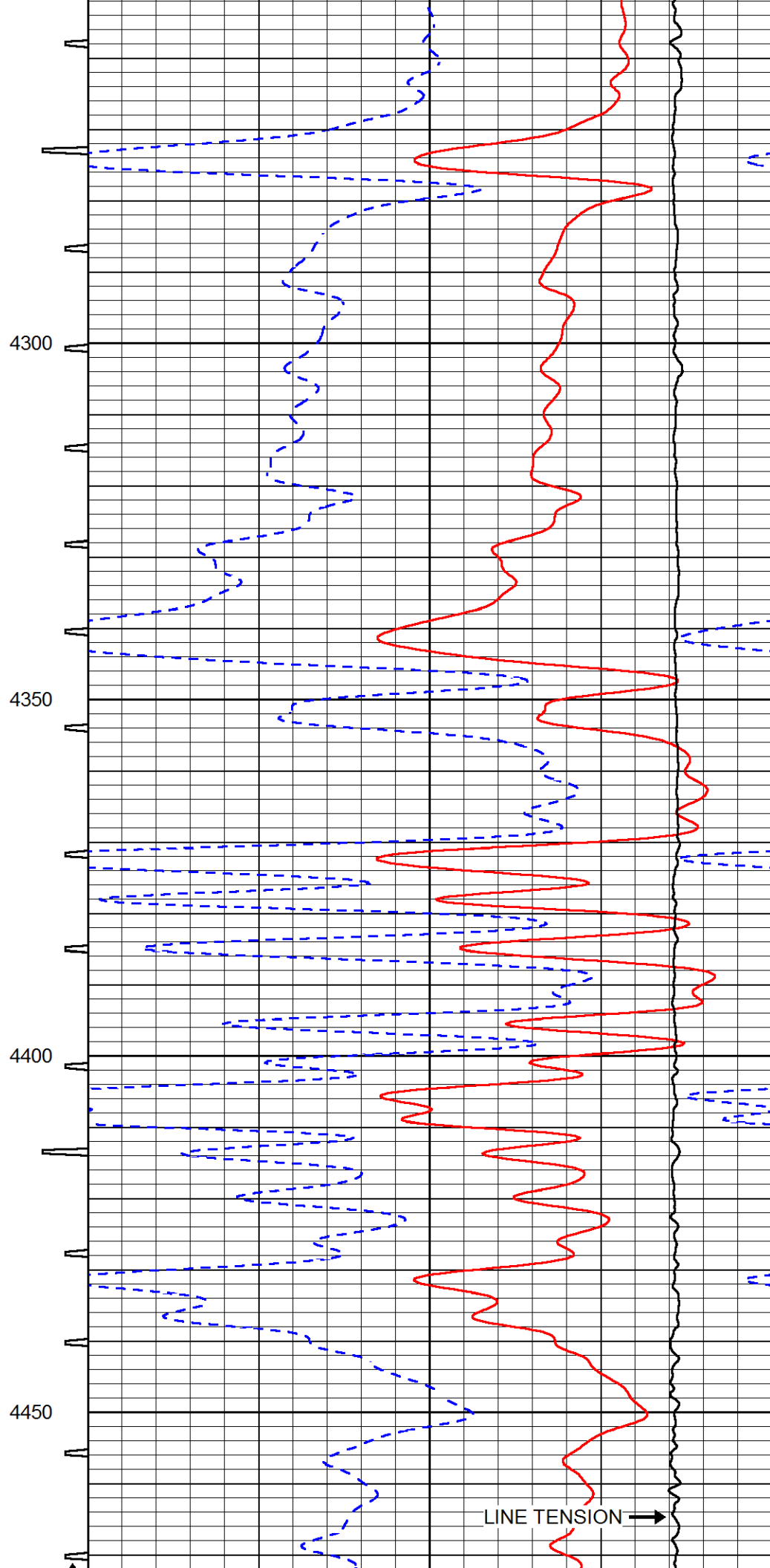
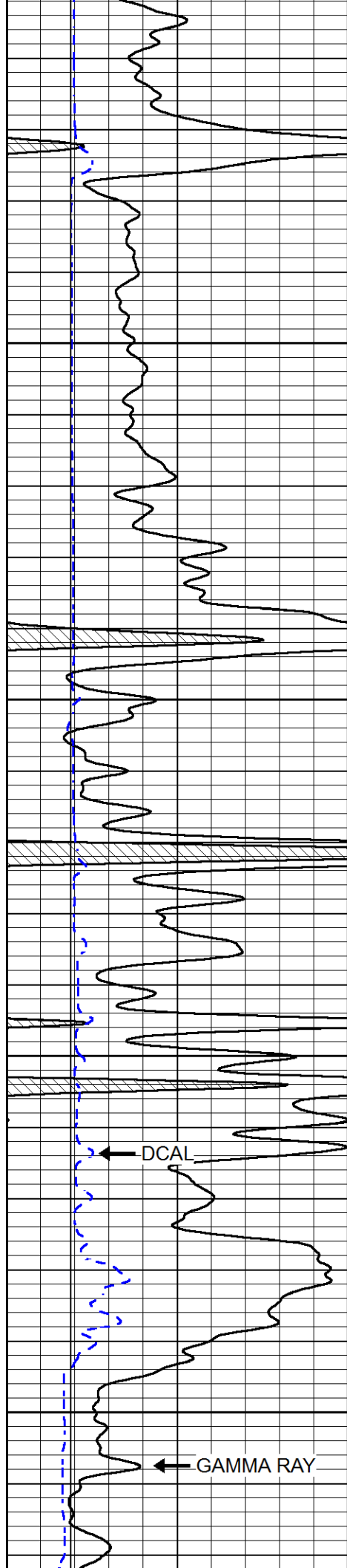


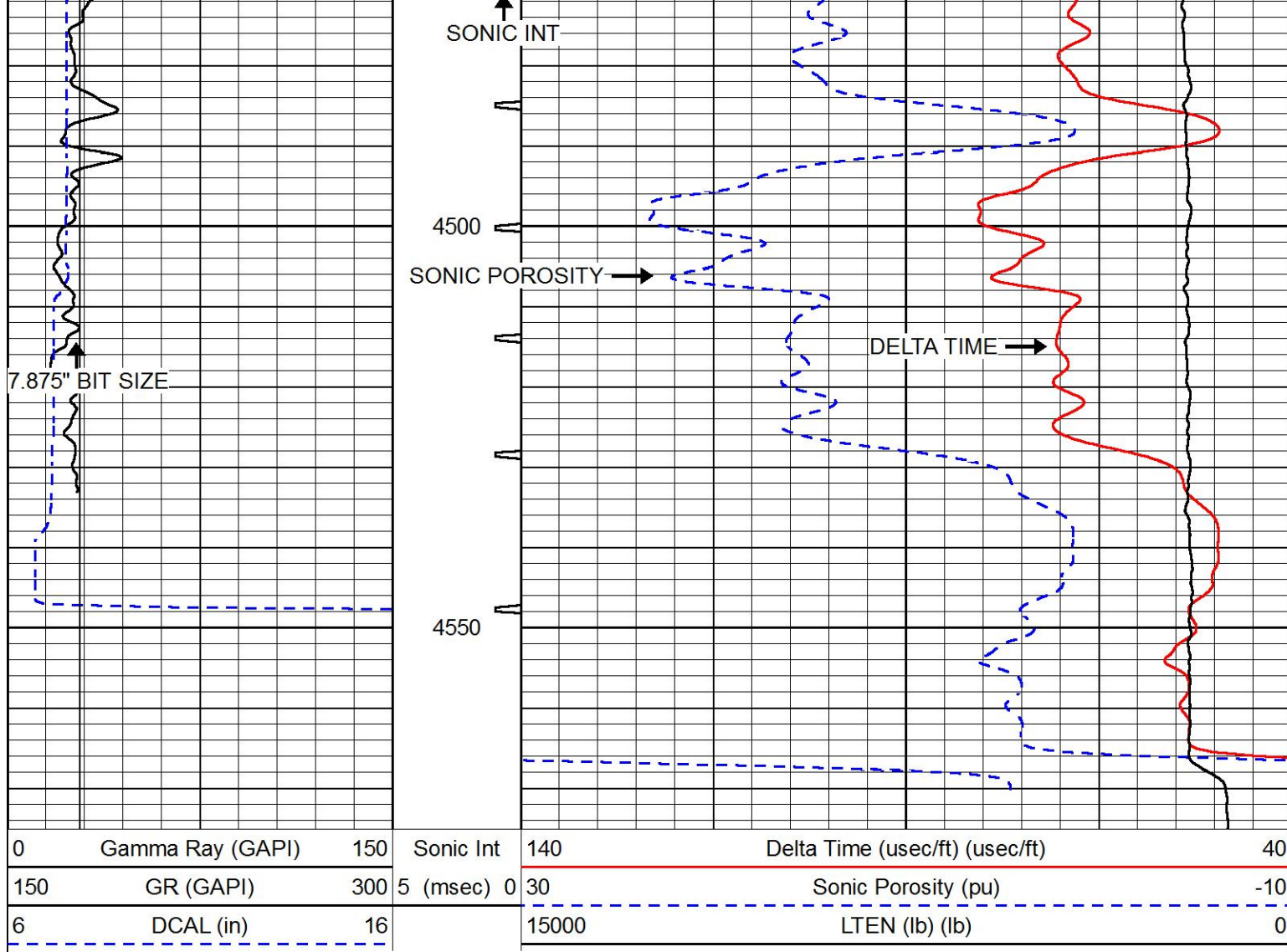










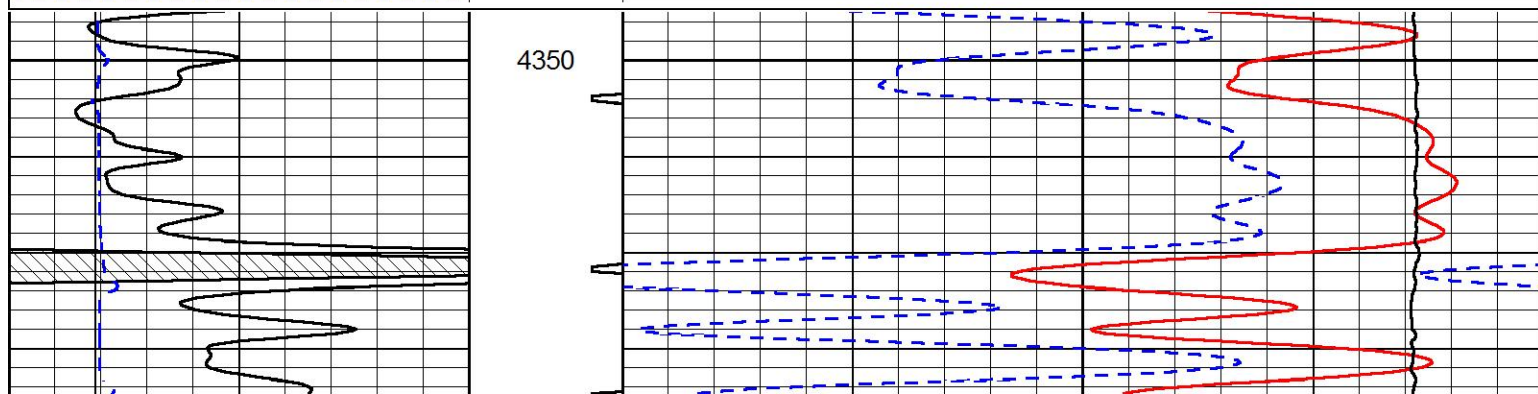


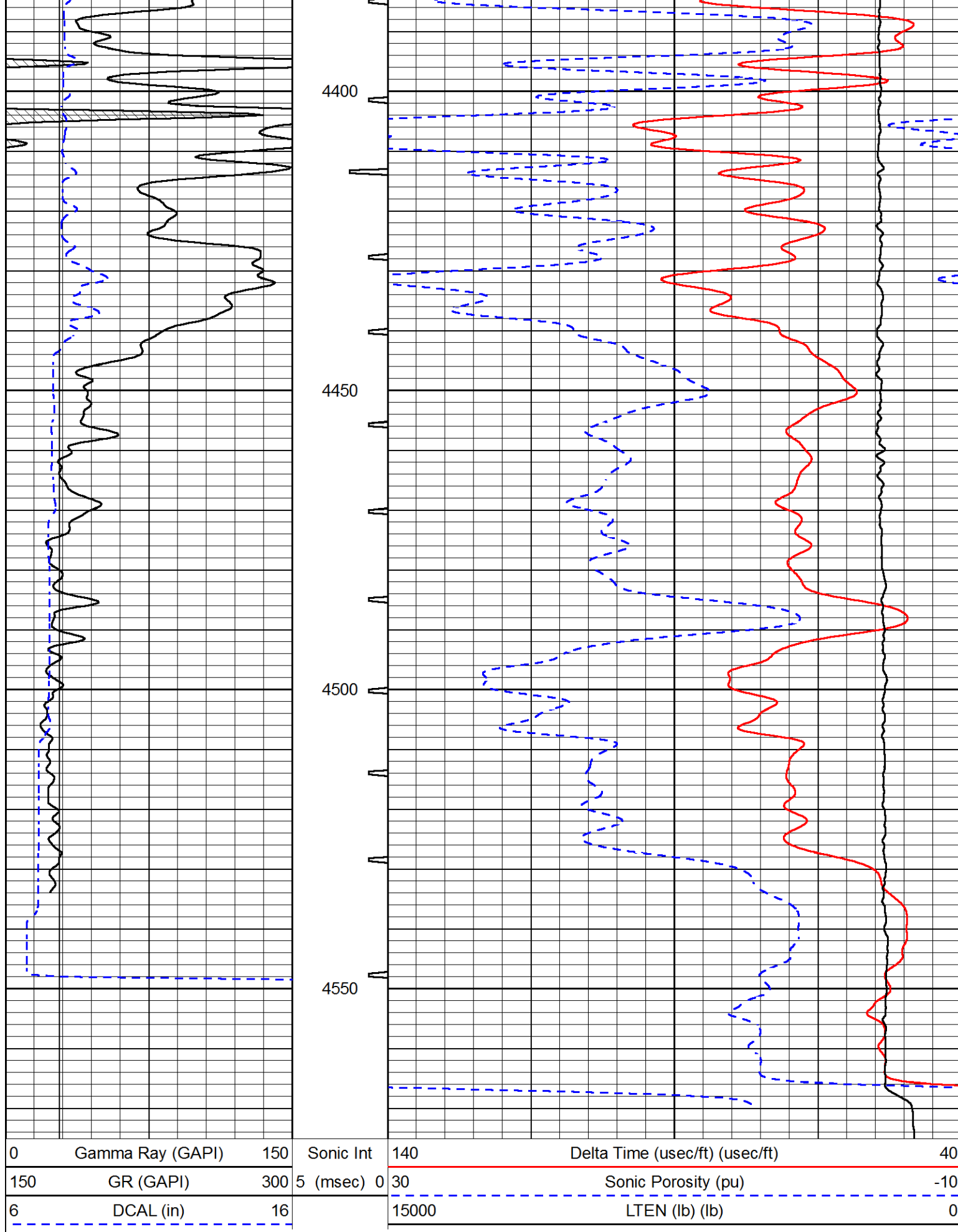


REPEAT SECTION

Database File brito_werth 1-35.db
 Dataset Pathname STKML/pass3.1
 Presentation Format sonic
 Dataset Creation Fri Mar 09 23:40:09 2018
 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





Calibration Report

Database File brito_werth 1-35.db

Dual Induction Calibration Report

Serial-Model: 967 (HT)-PSI HIGH TEMP
Calibration Performed: Fri Mar 09 21:20:21 2018

		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-23.000
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-40.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
Performed: Fri Mar 09 21:13:49 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	23500.0000	-0.6000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	31000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.8500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Fri Mar 09 21:14:39 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.522		
	Size		Reading		
Small Ring	8.00	in	1.84		
Large Ring	22.00	in	1.46		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: FRI MAR 9 10:30:30 2018

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:	89
Tool Model:	M&W
Calibration Performed:	Mon Jan 15 11:20:44 2018

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



Company	BRITO OIL COMPANY, INC.
Well	WERTH #1-35
Field	WILDCAT
County	GOVE
State	KANSAS