



PIONEER

Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company **PALOMINO PETROLEUM, INC.**
Well **UEHLING-SCHWIEN #1**
Field **WILDCAT**
County **NESS** State **KANSAS**

Location: API #: 15-135-25992-00-00

Other Services

587' FNL & 2477' FEL
SEC 11 TWP 20S RGE 22W

CNL/CDL
MEL/DIL

Permanent Datum **GROUND LEVEL** Elevation **2235'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 2240'
D.F. N/A
G.L. 2235'

Date **2/21/2018**

Run Number **TWO**

Type Log **BHCS**

Depth Driller **4545'**

Depth Logger **4546'**

Bottom Logged Interval **4534'**

Top Logged Interval **200'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **11,700**

Density **9.35**

Level **FULL**

Max. Rec. Temp. F **121**

Operating Rig Time **5 HOURS**

Equipment -- Location **91 HAYS**

Recorded By **D. SCHMIDT**

Witnessed By **ANDREW STENZEL**

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

ONE 12.25" 0' 218' 8.625" 23# 0' 218'

TWO 7.875" 218' 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.

BAZINE,
8 SOUTH TO ROAD 50, 1 1/2 WEST
SOUTH 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

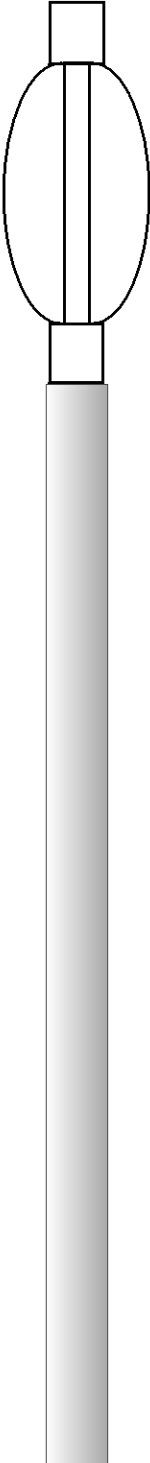
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

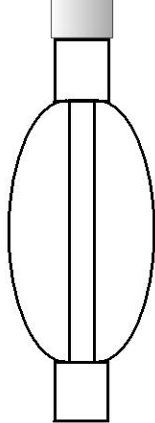
This Log Record Was Witnessed By

Primary Witness: ANDREW STENZEL
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	-143	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	20	0	5.5	0	4546	121	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

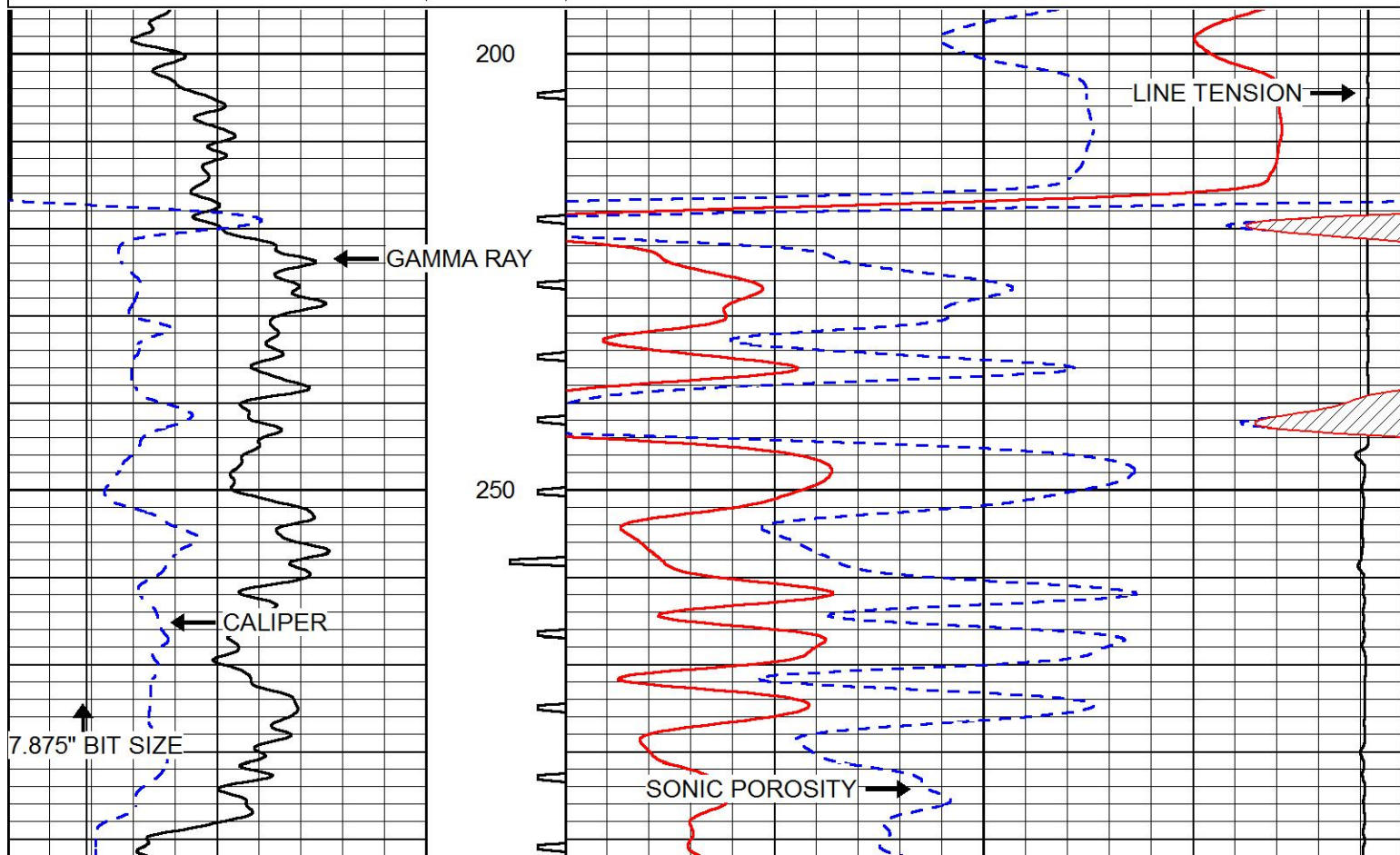
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Total length: 27.00 ft
Total weight: 440.00 lb
O.D.: 3.50 in

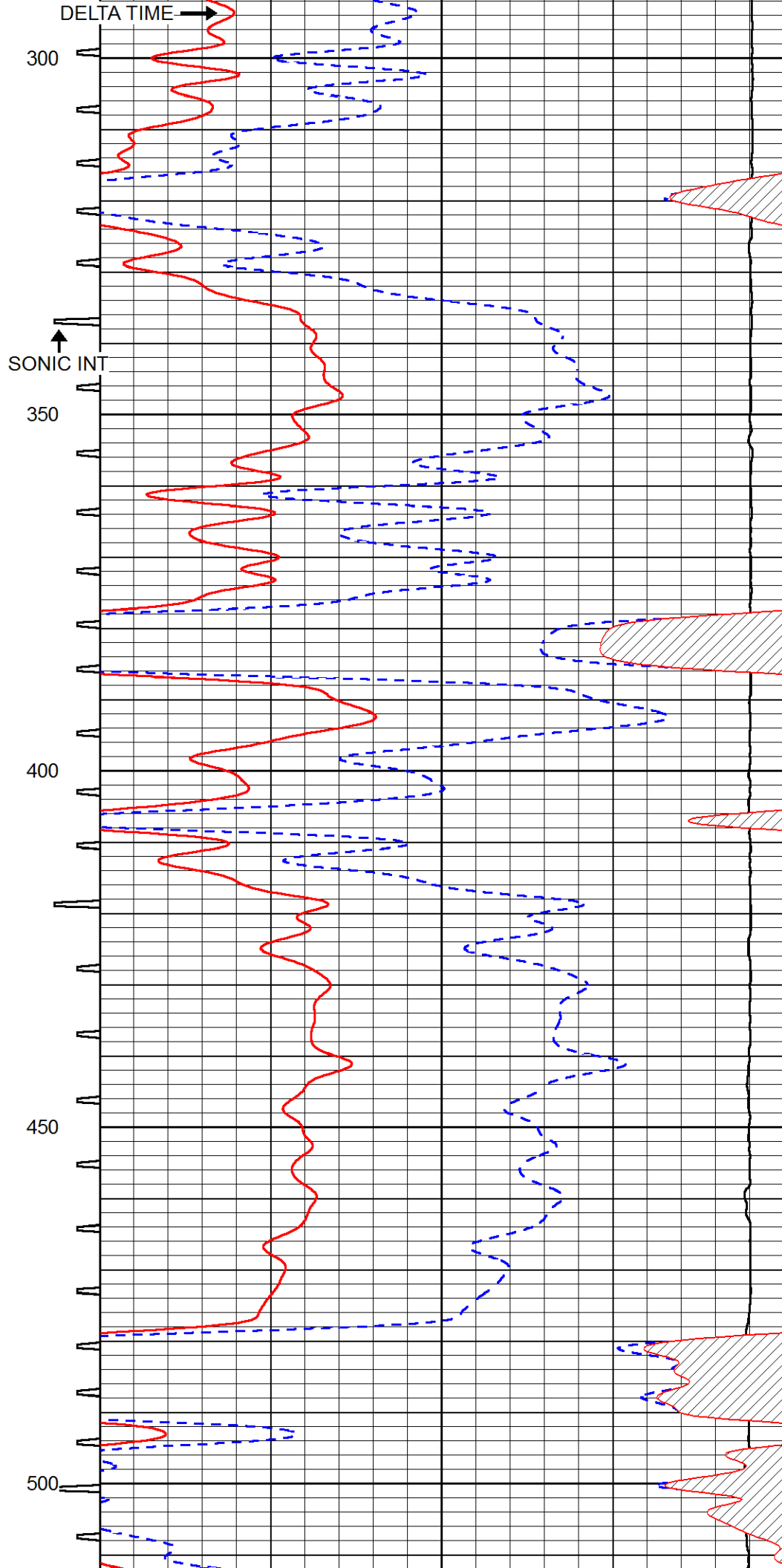
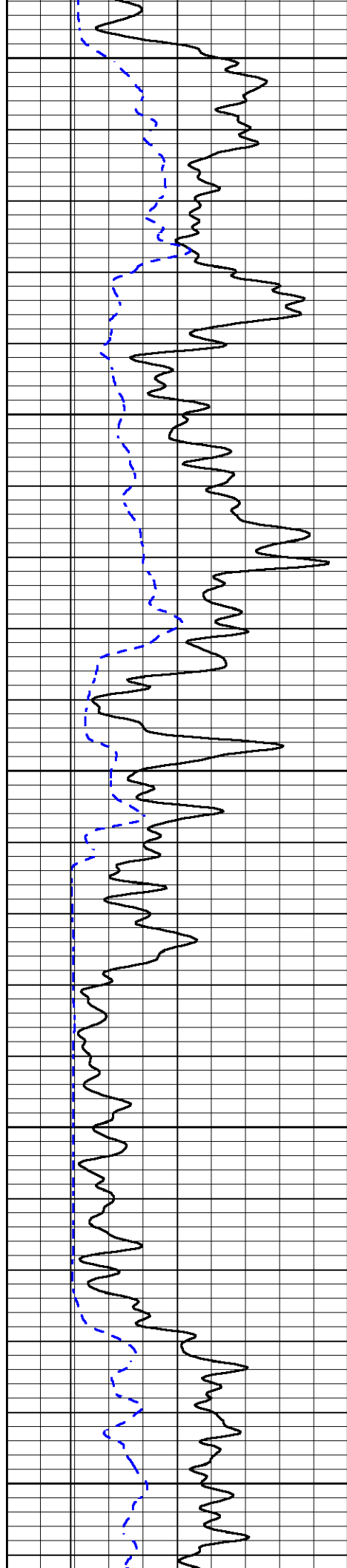


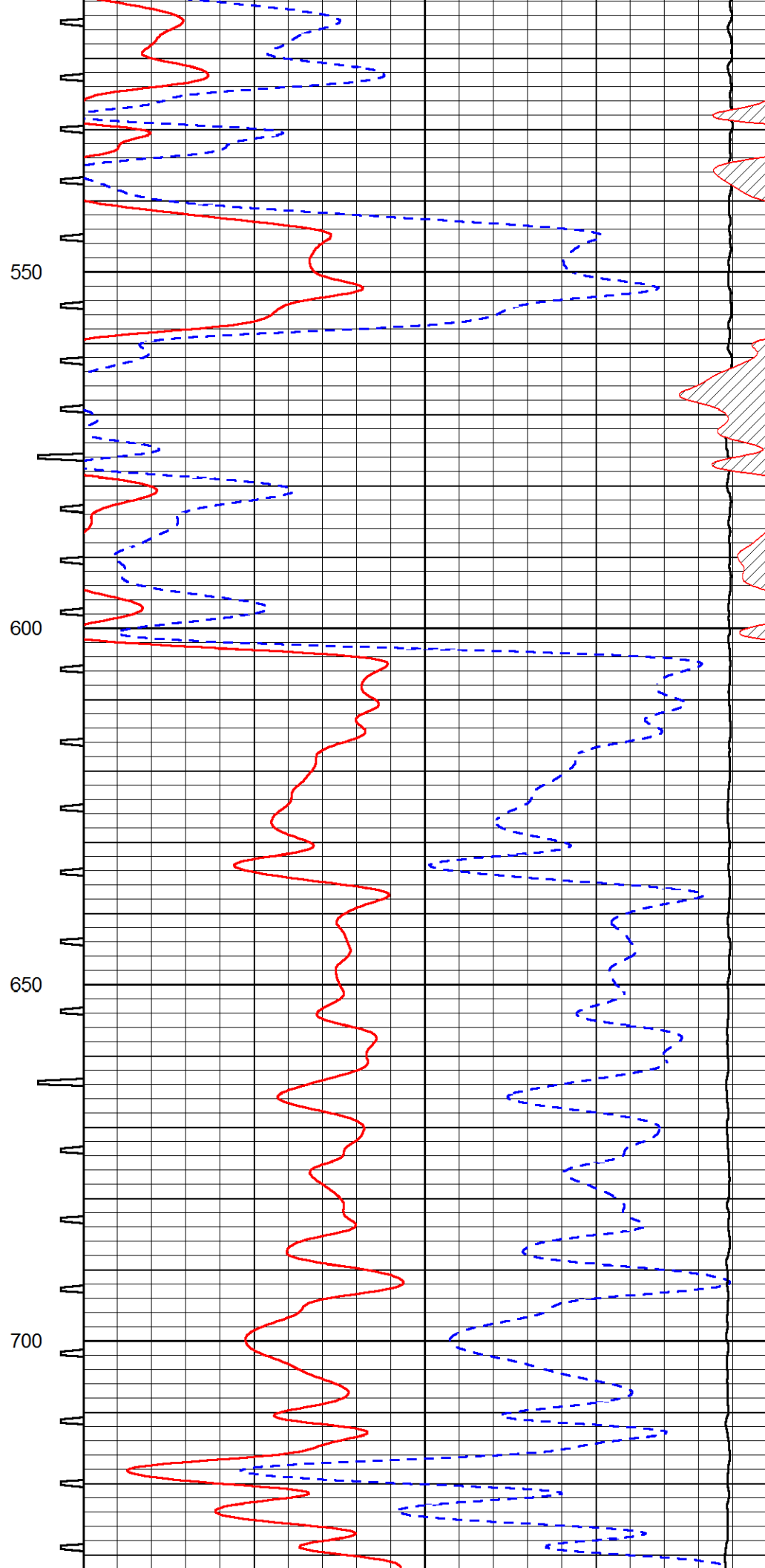
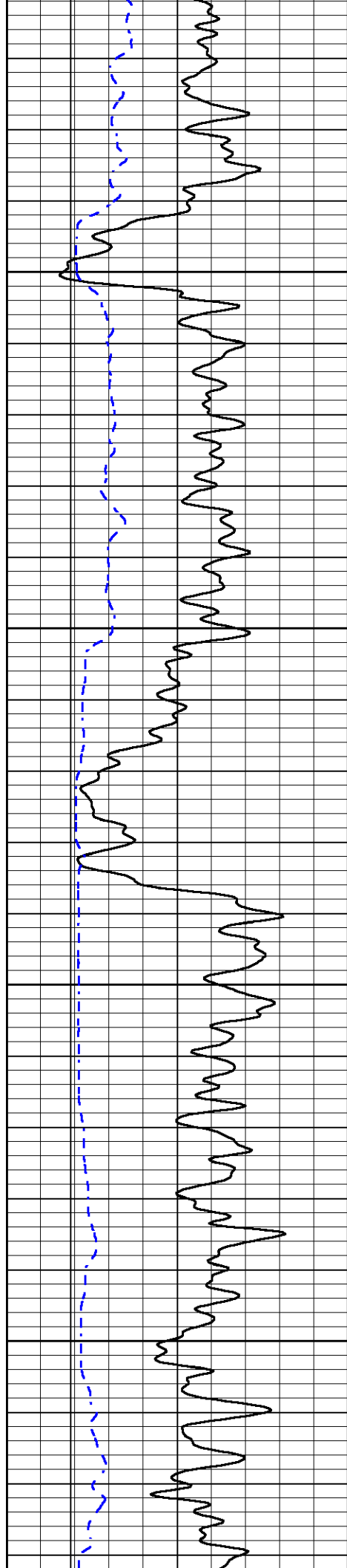
MAIN PASS

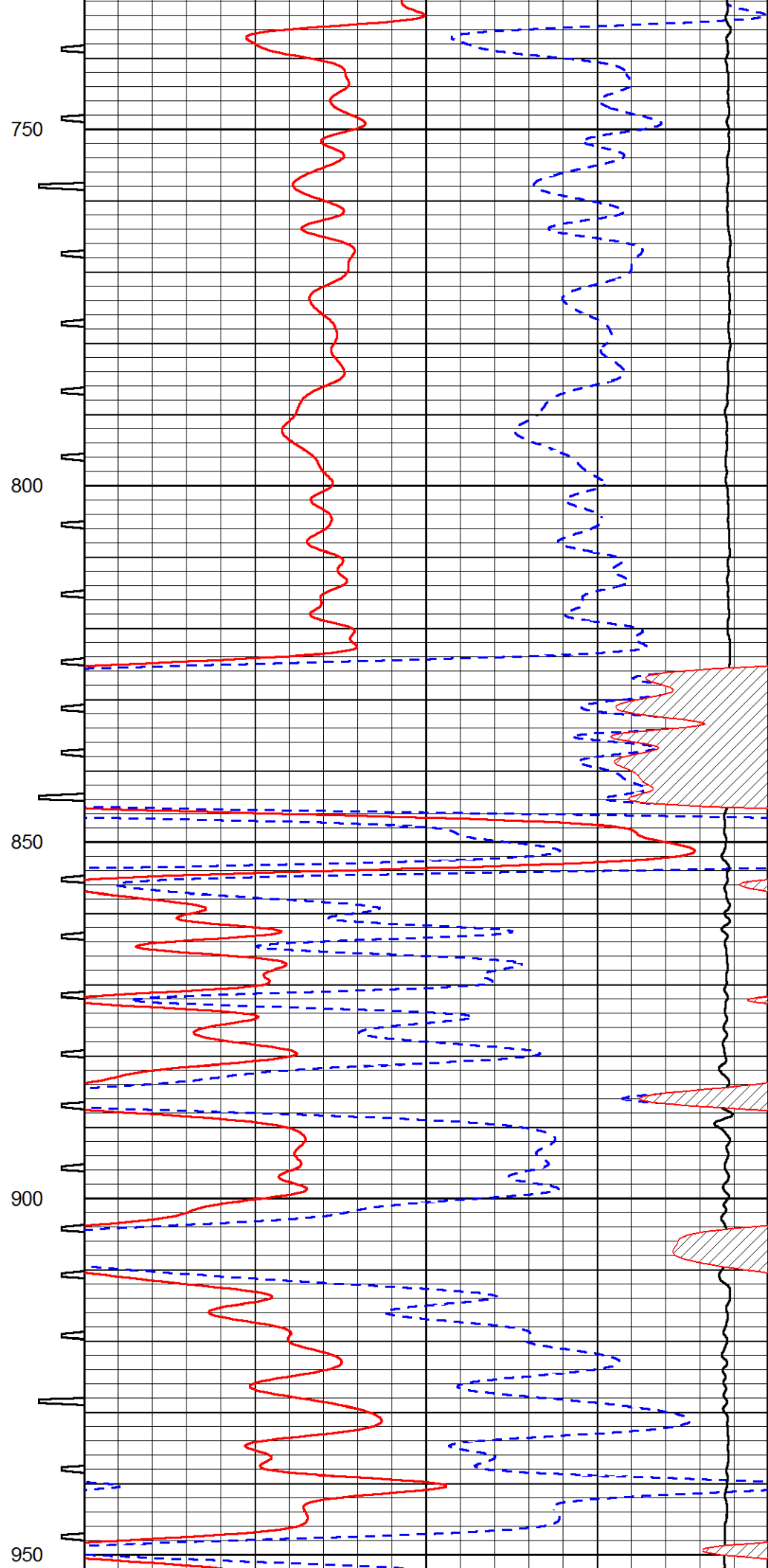
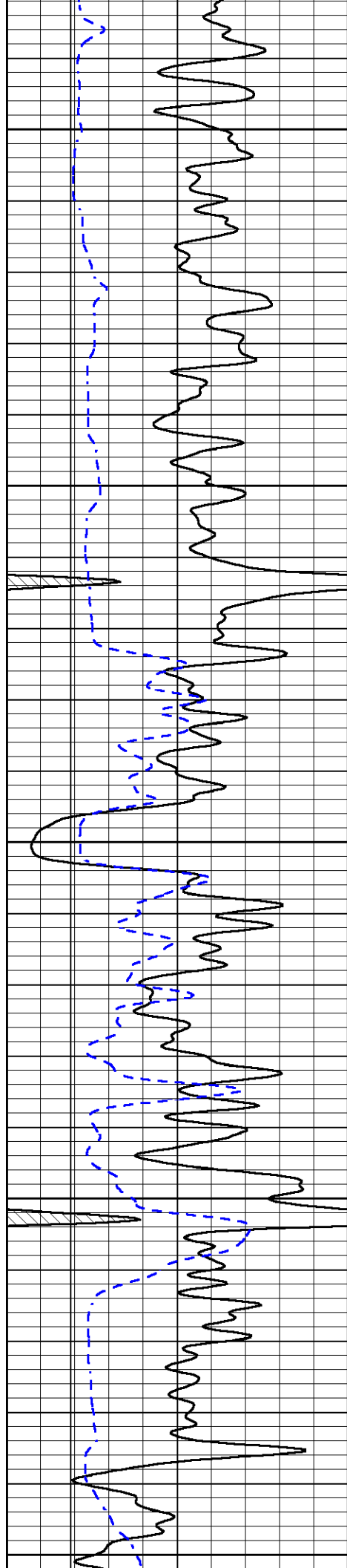
Database File palomino_uehling-schwien#1.db
Dataset Pathname STACKML/pass3.1
Presentation Format sonic
Dataset Creation Wed Feb 21 04:27:39 2018
Charted by Depth in Feet scaled 1:240

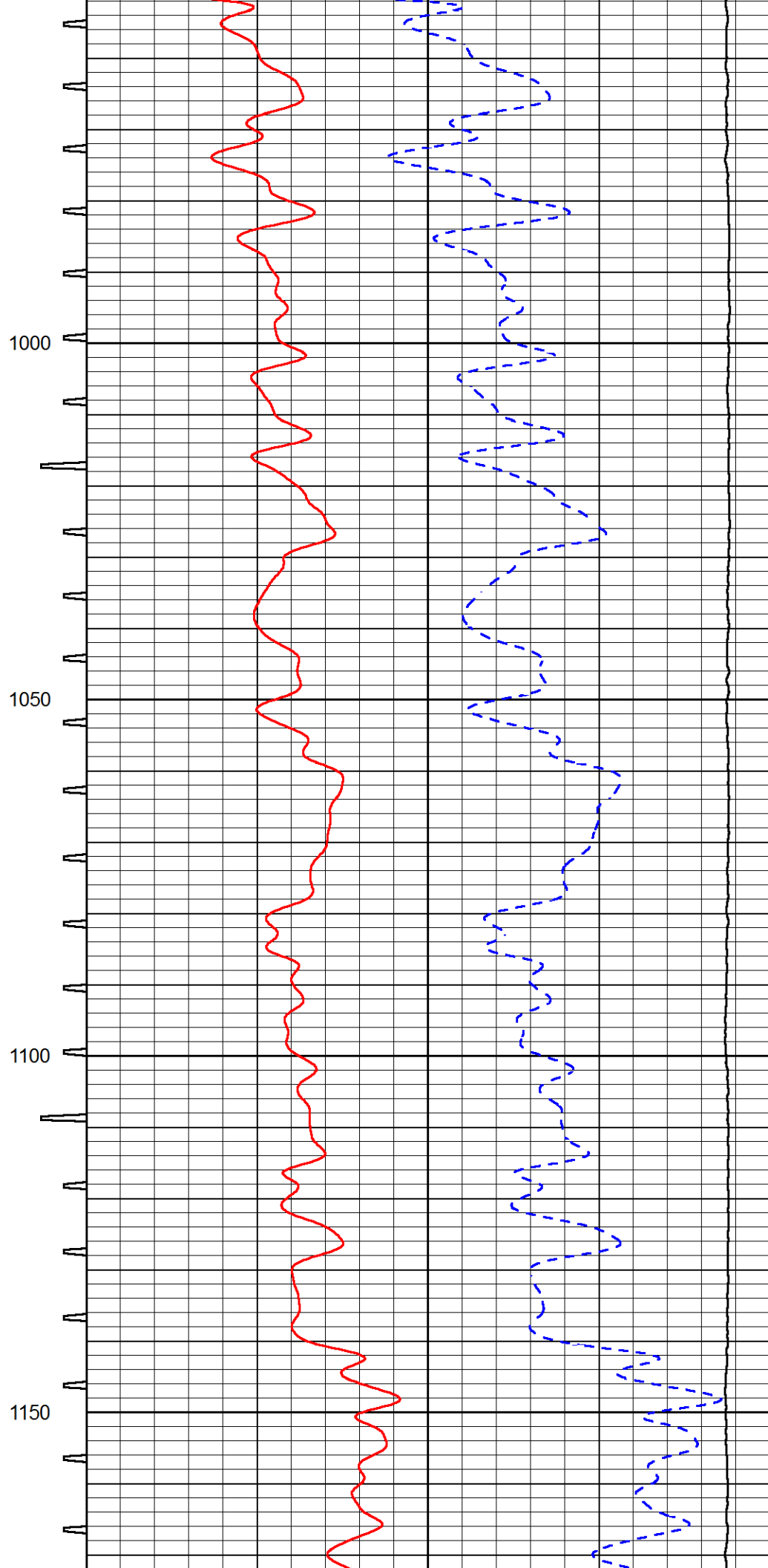
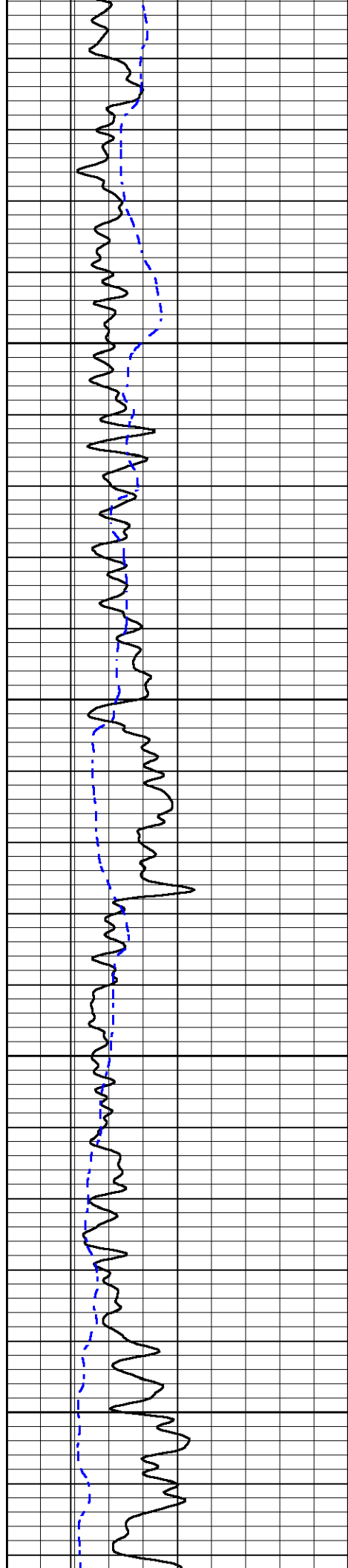
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150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

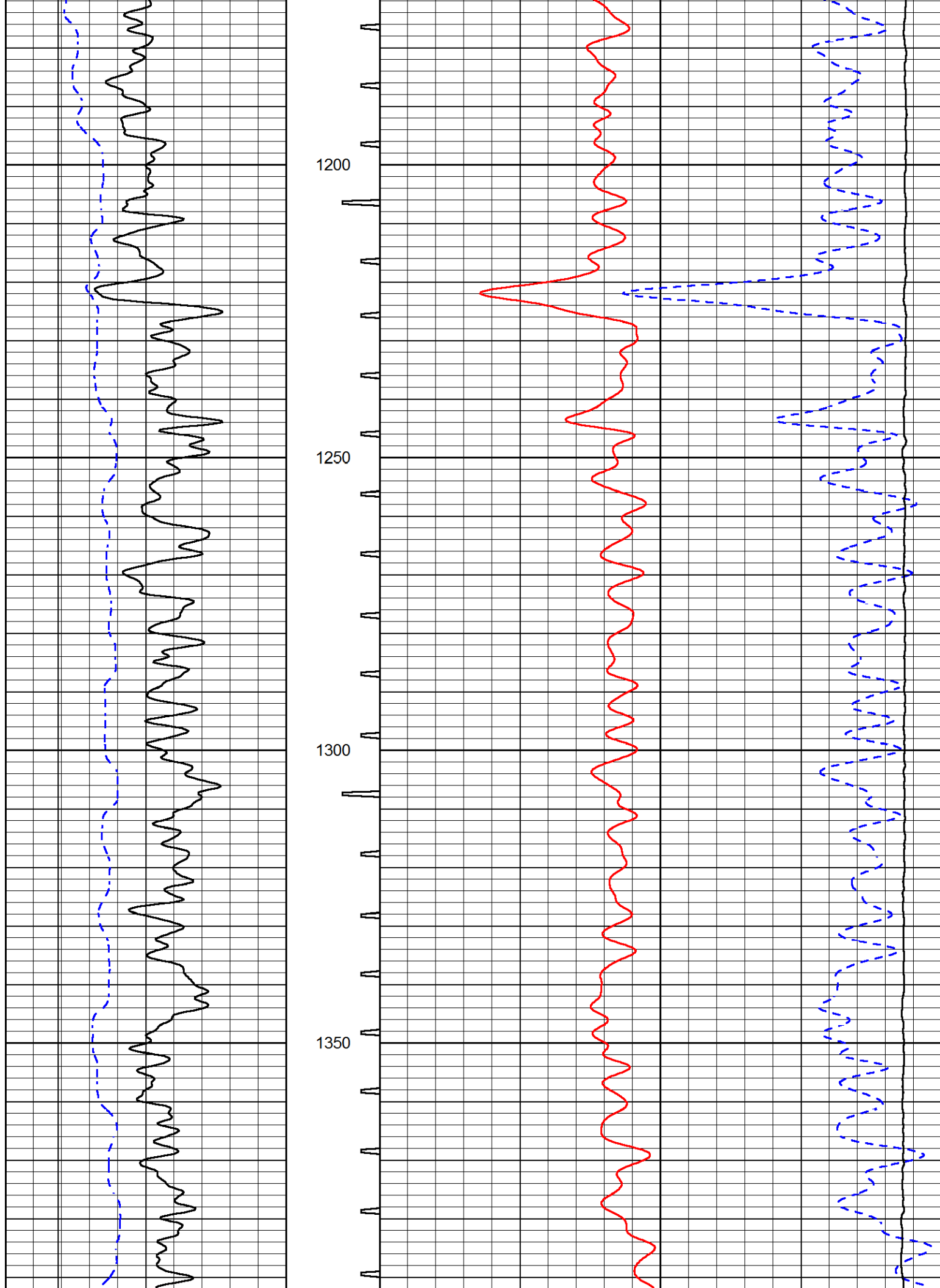


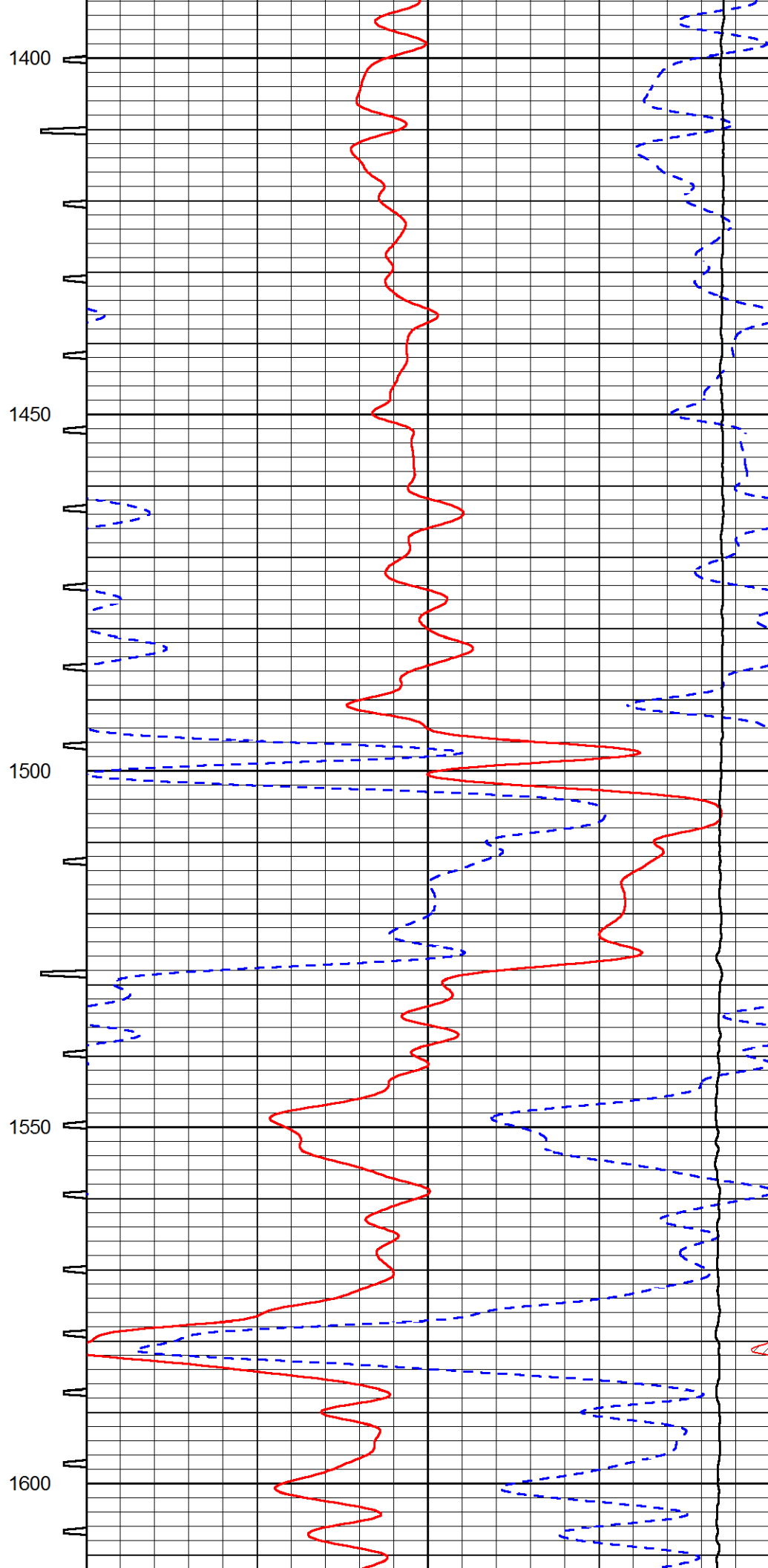
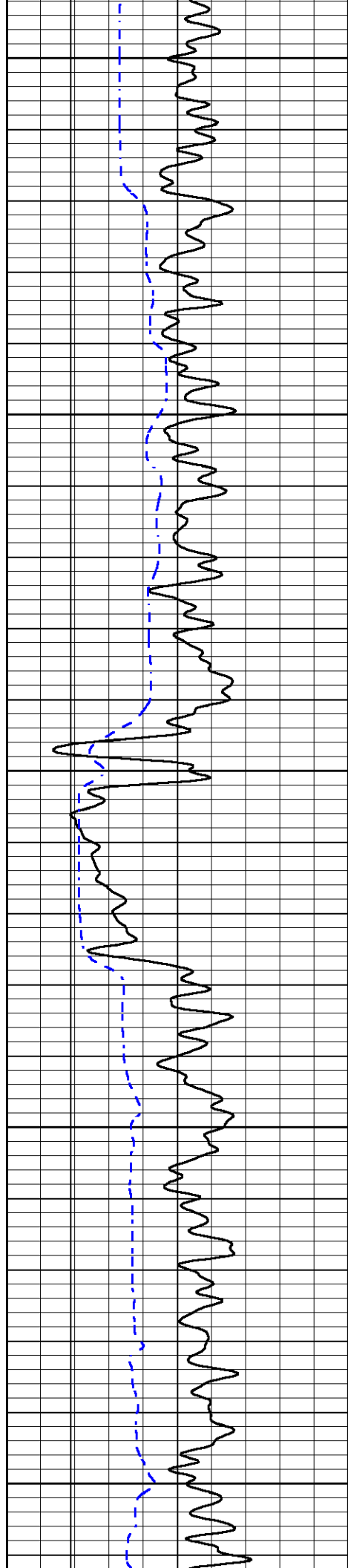


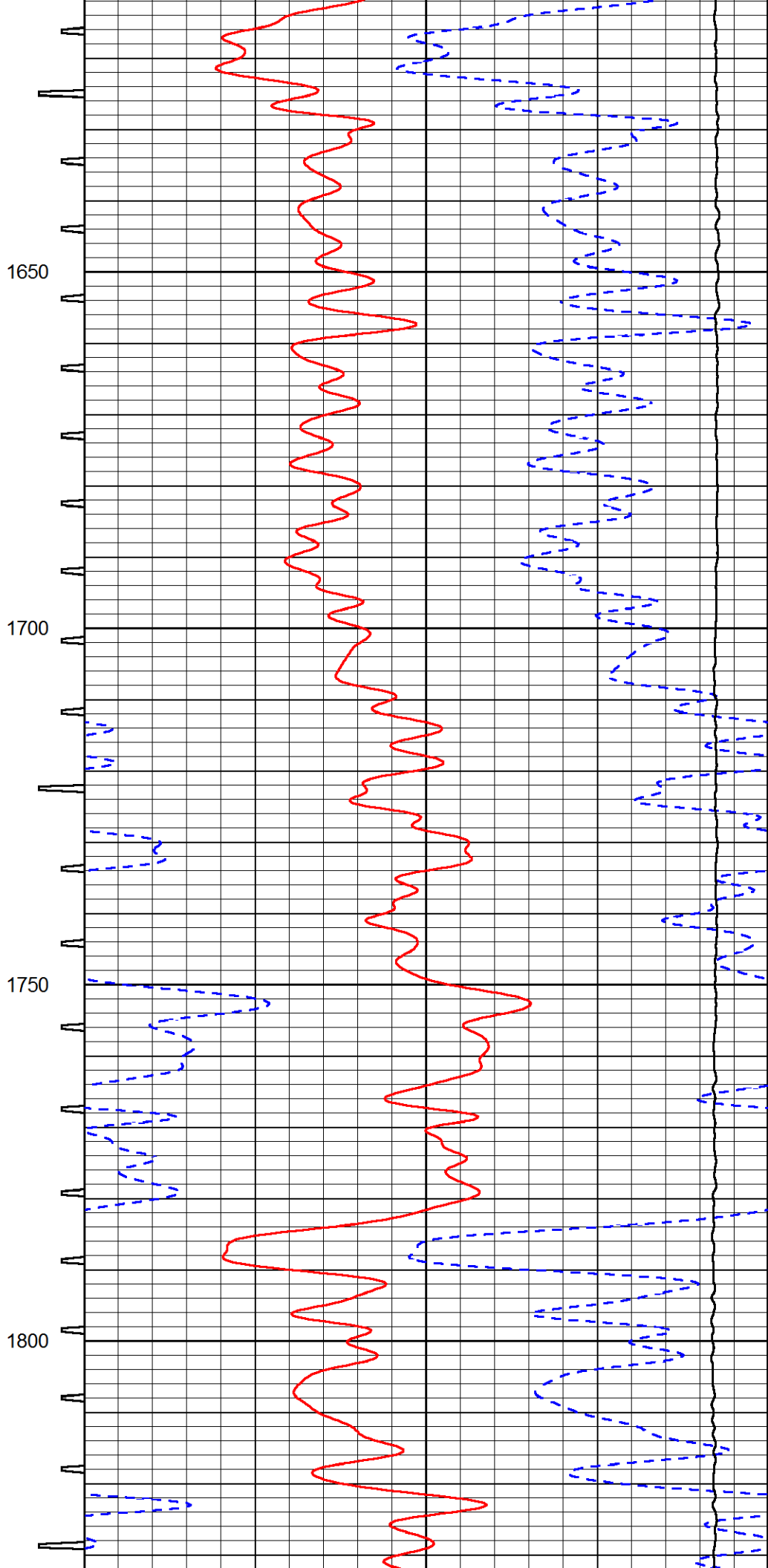
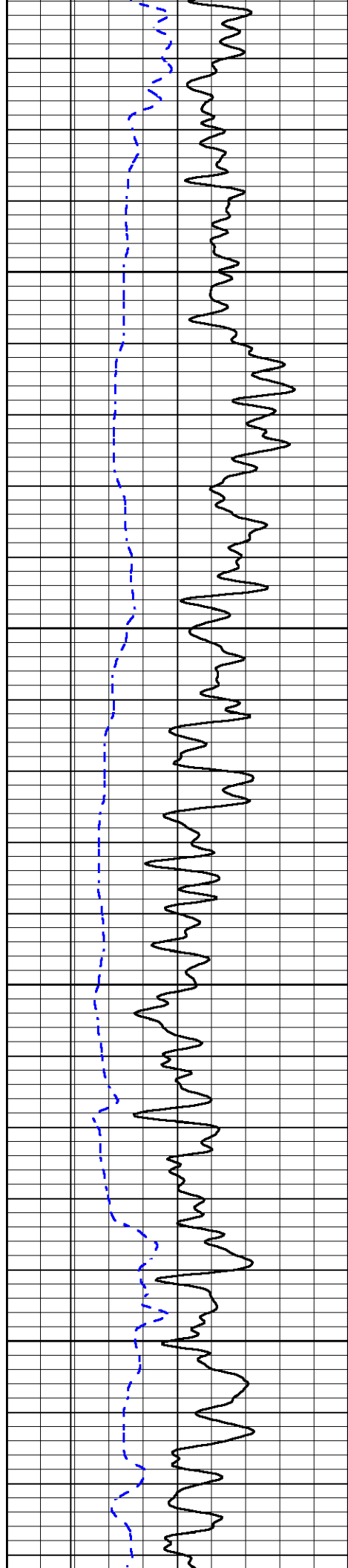


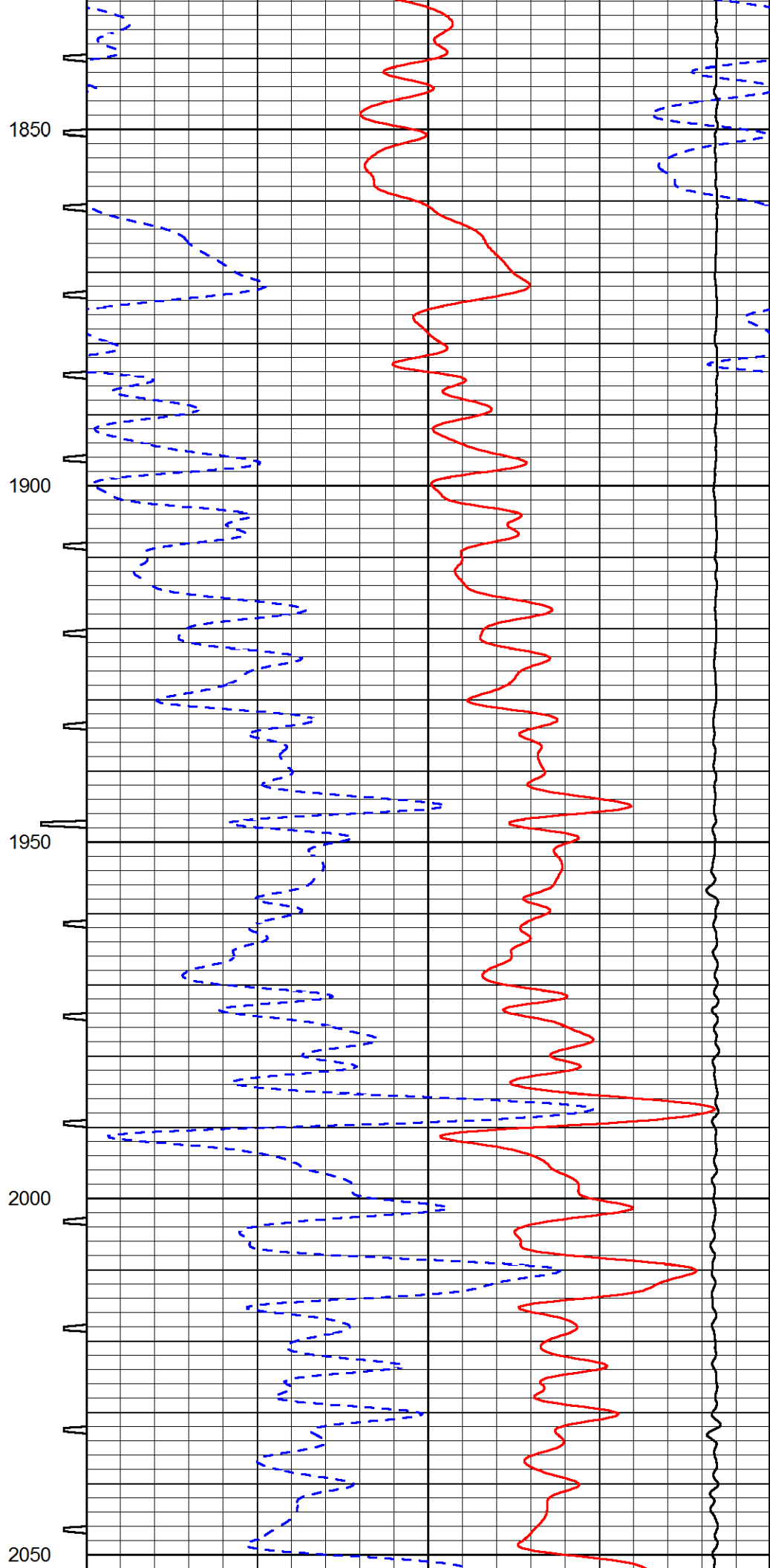
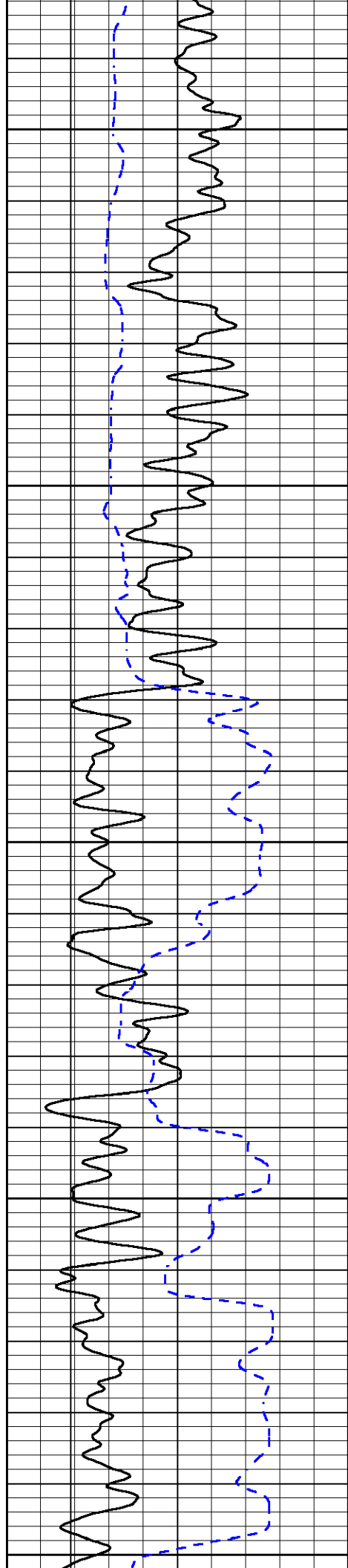


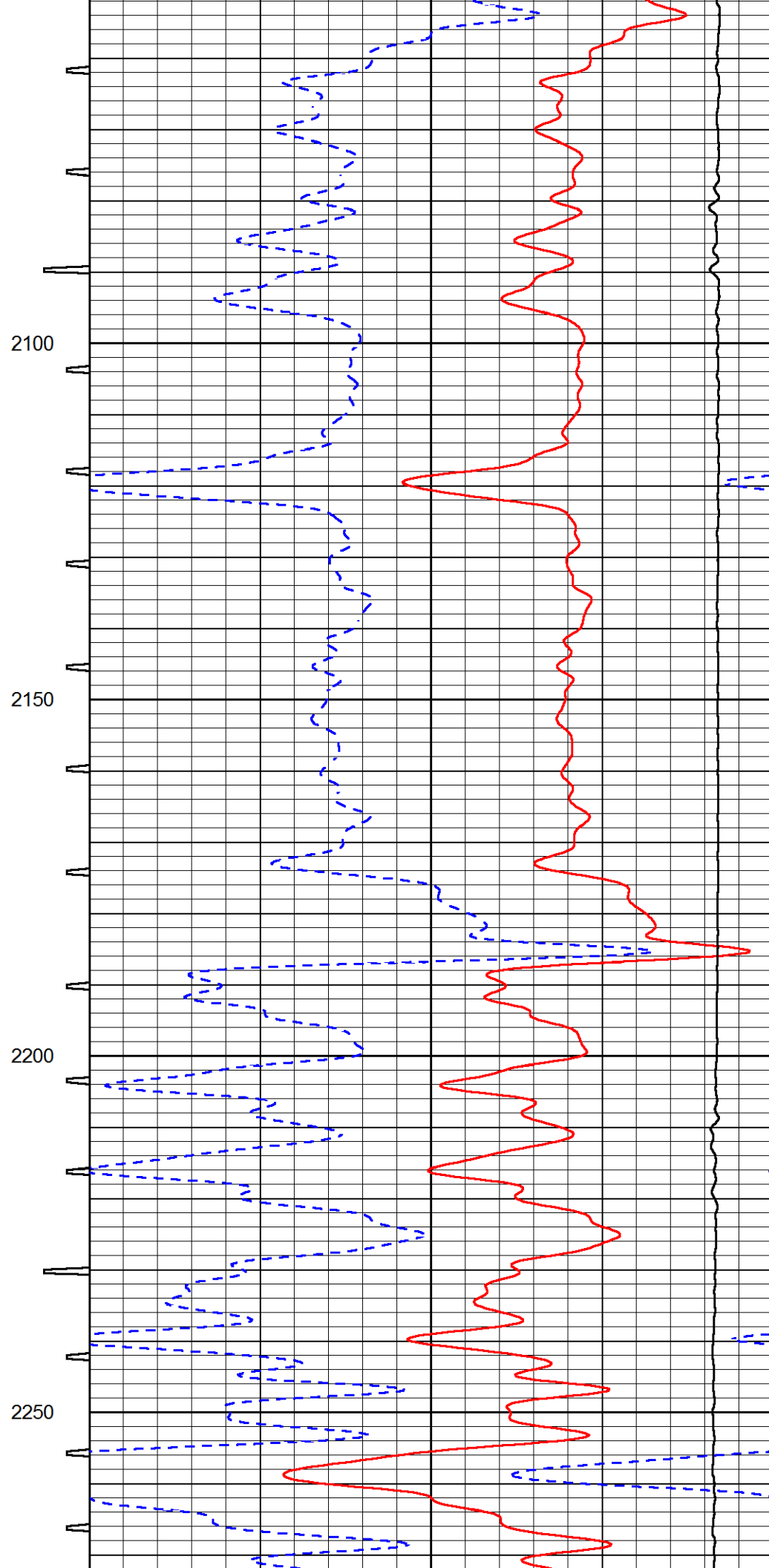
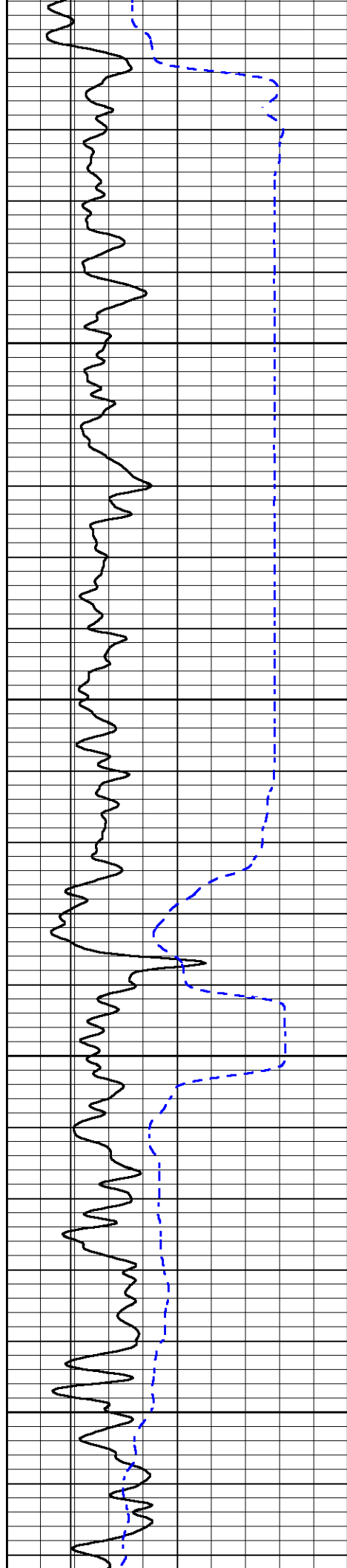


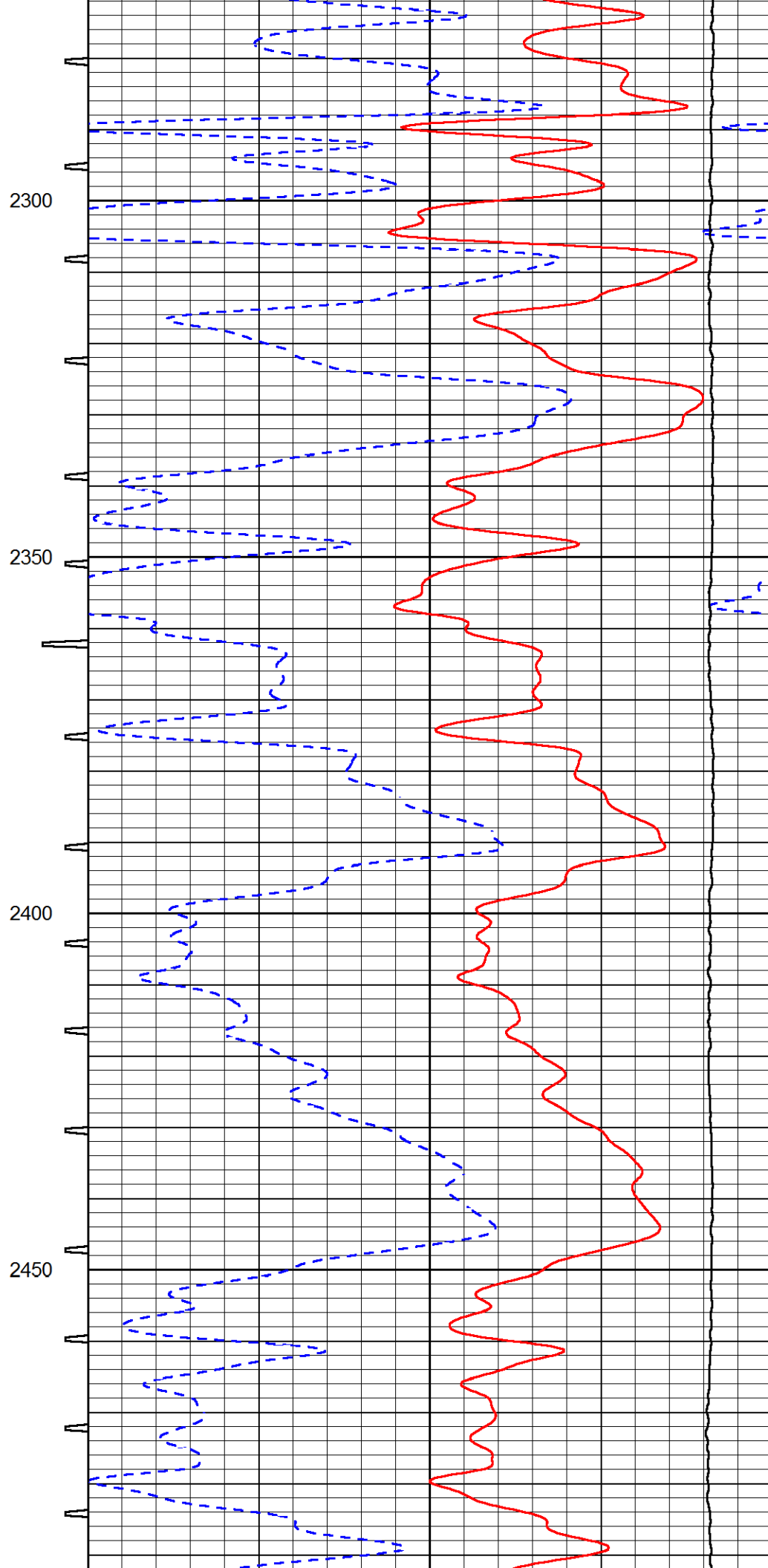
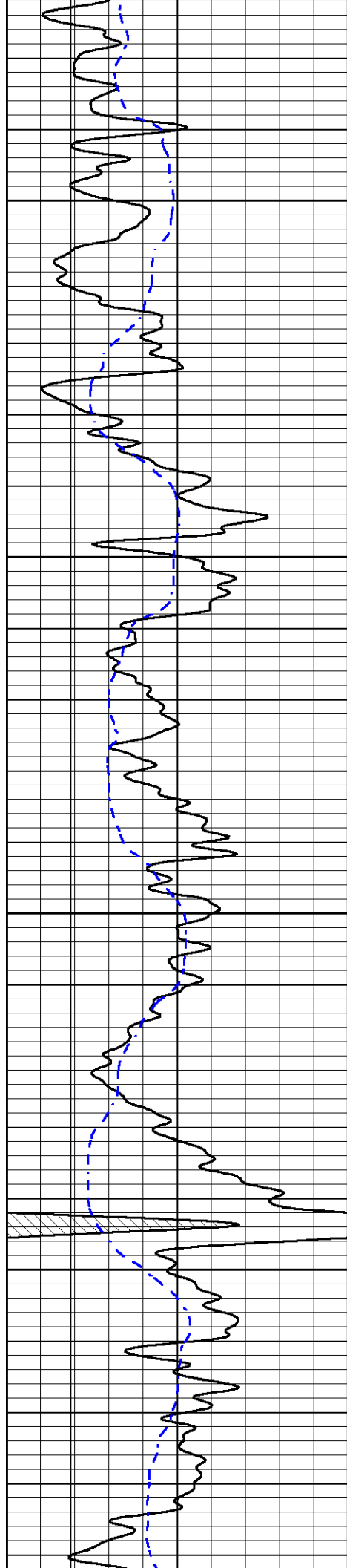


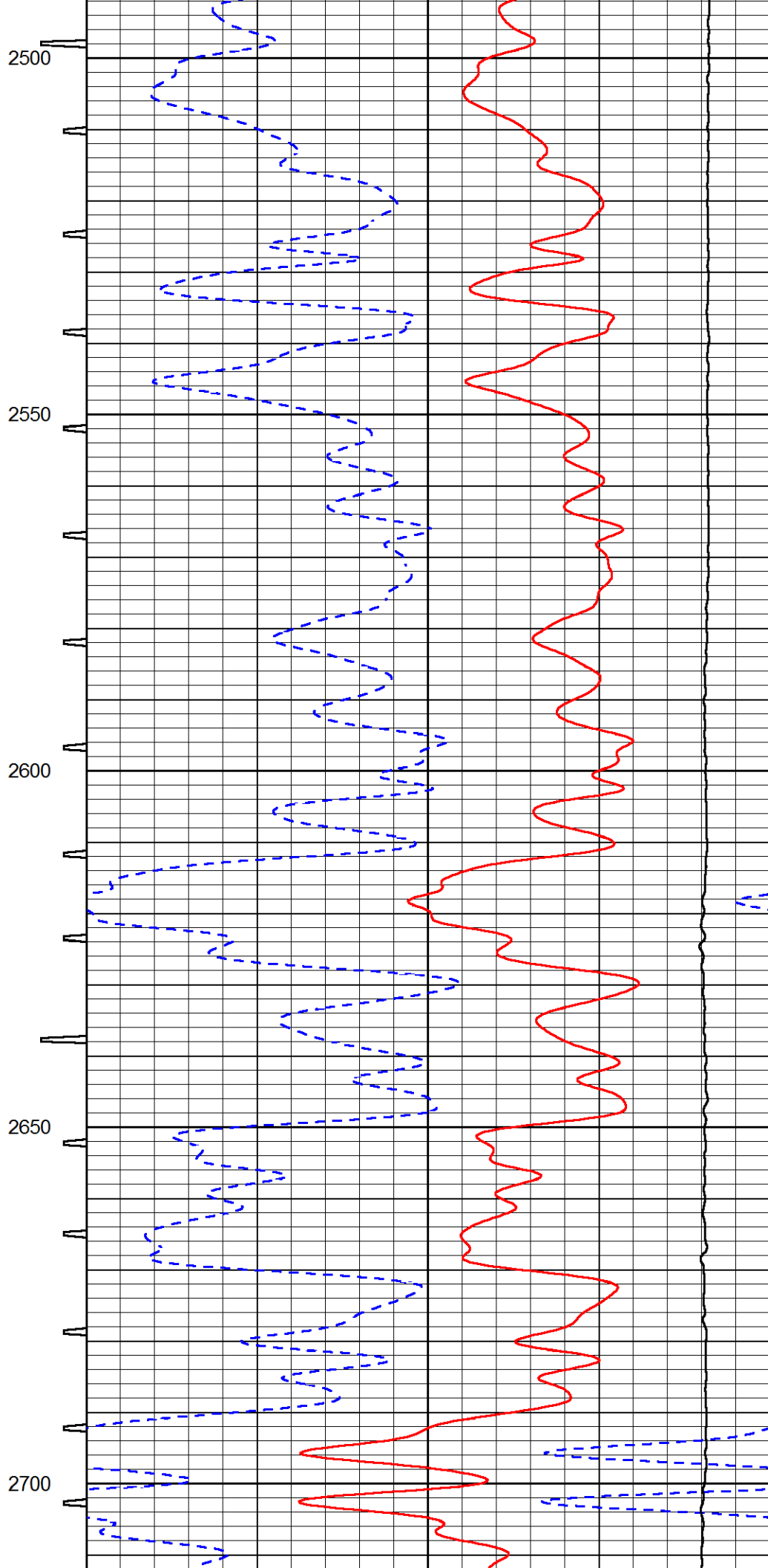
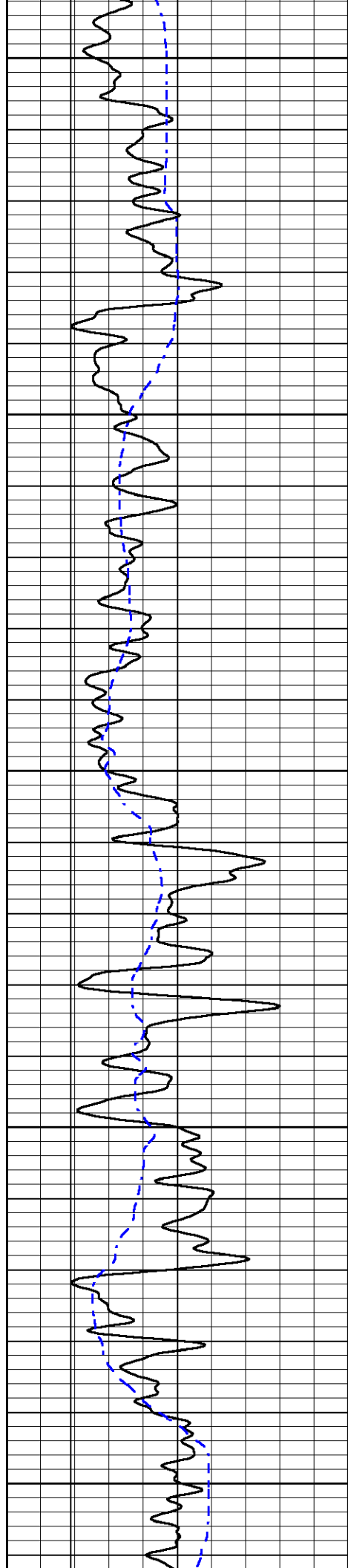


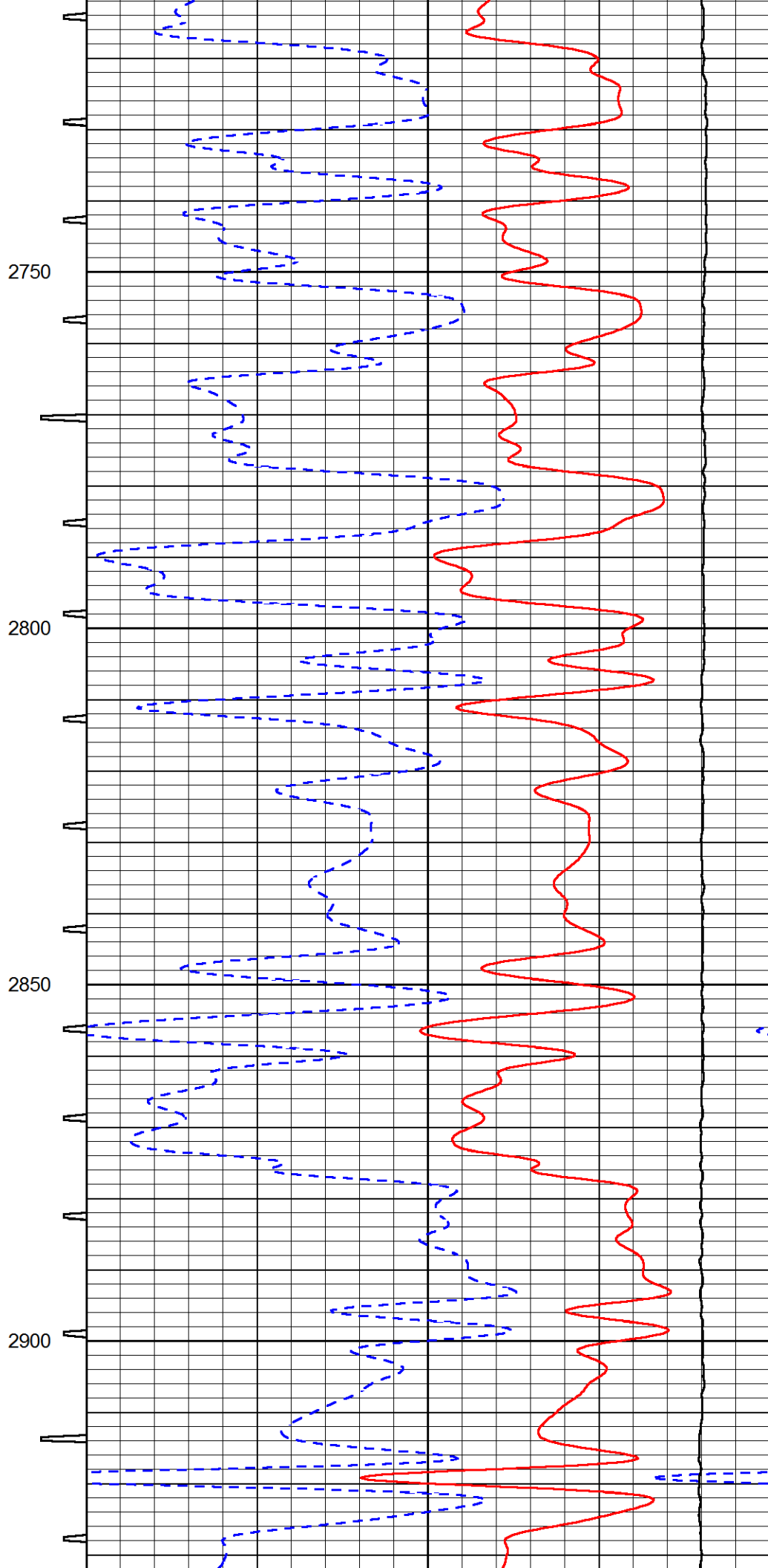
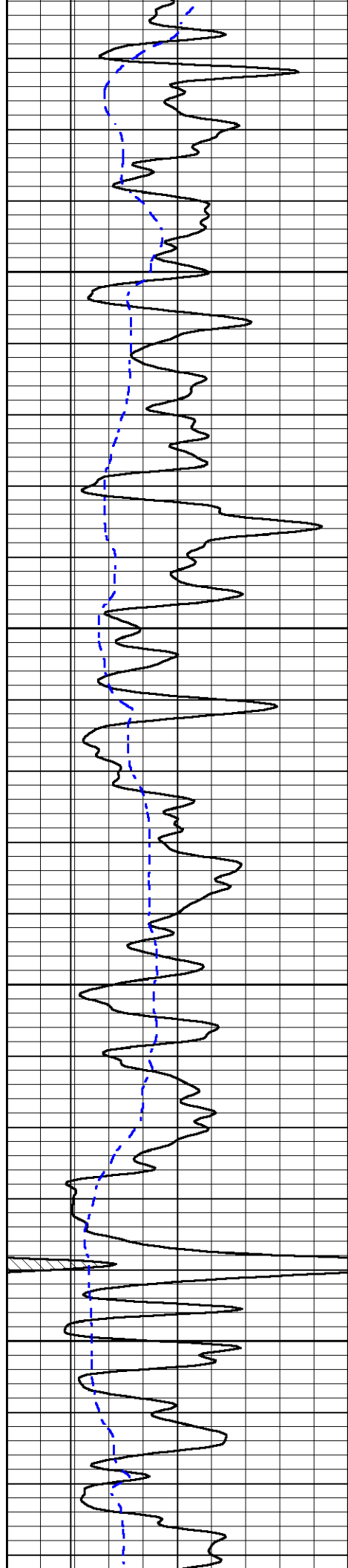


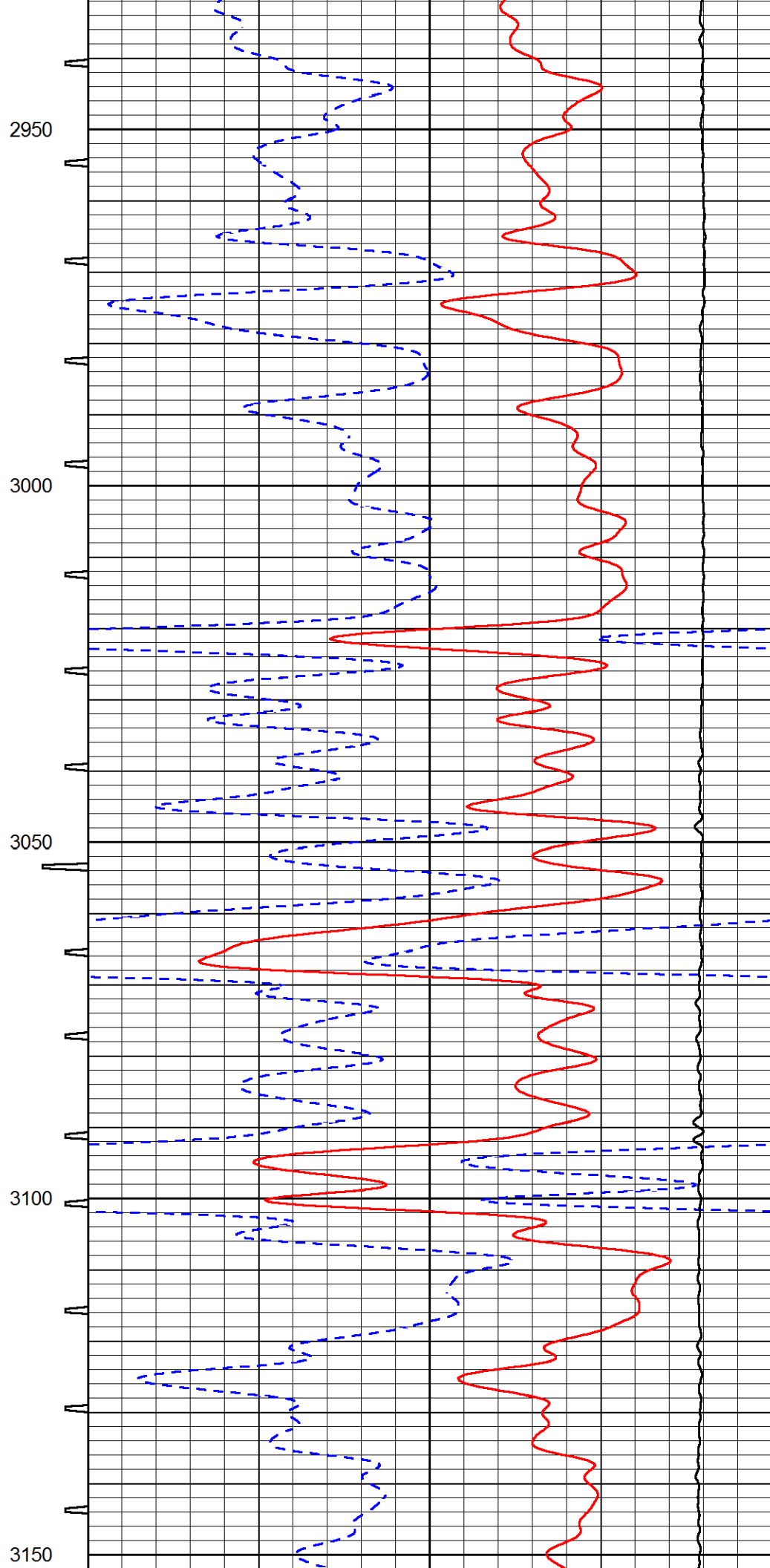
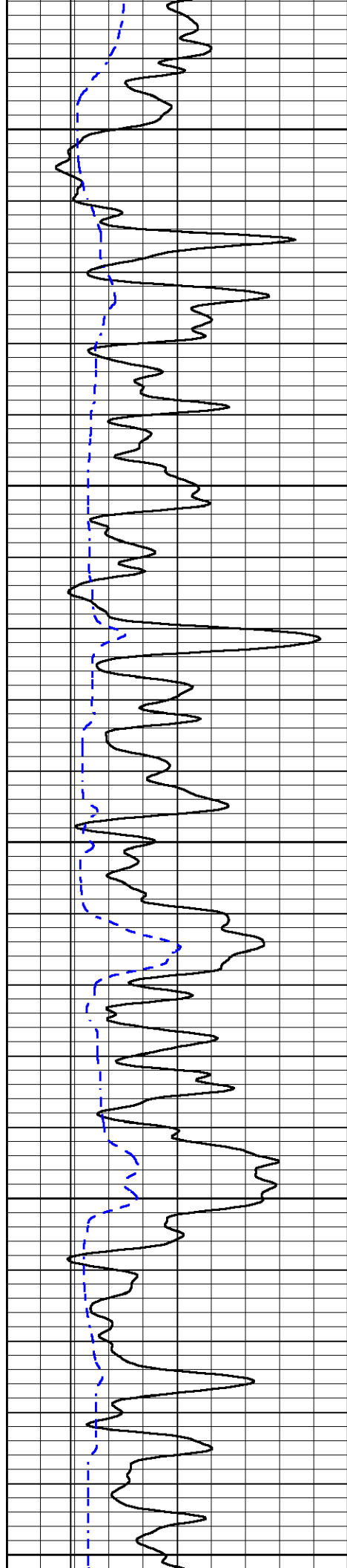


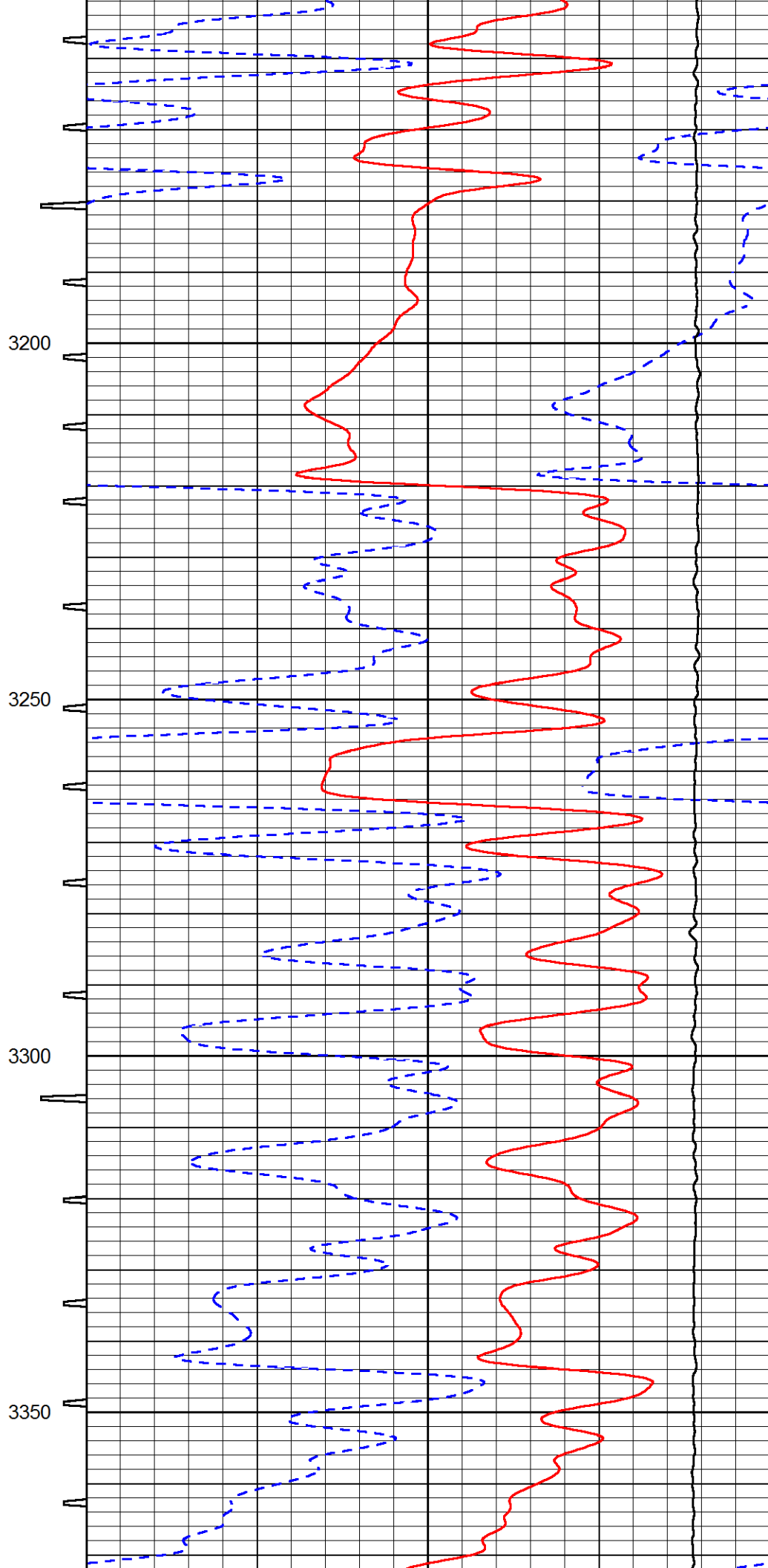
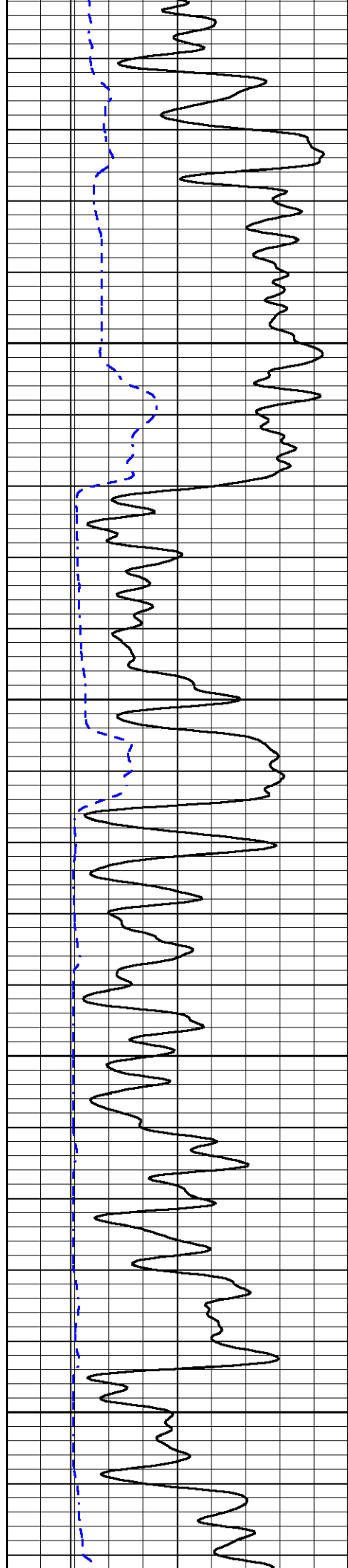


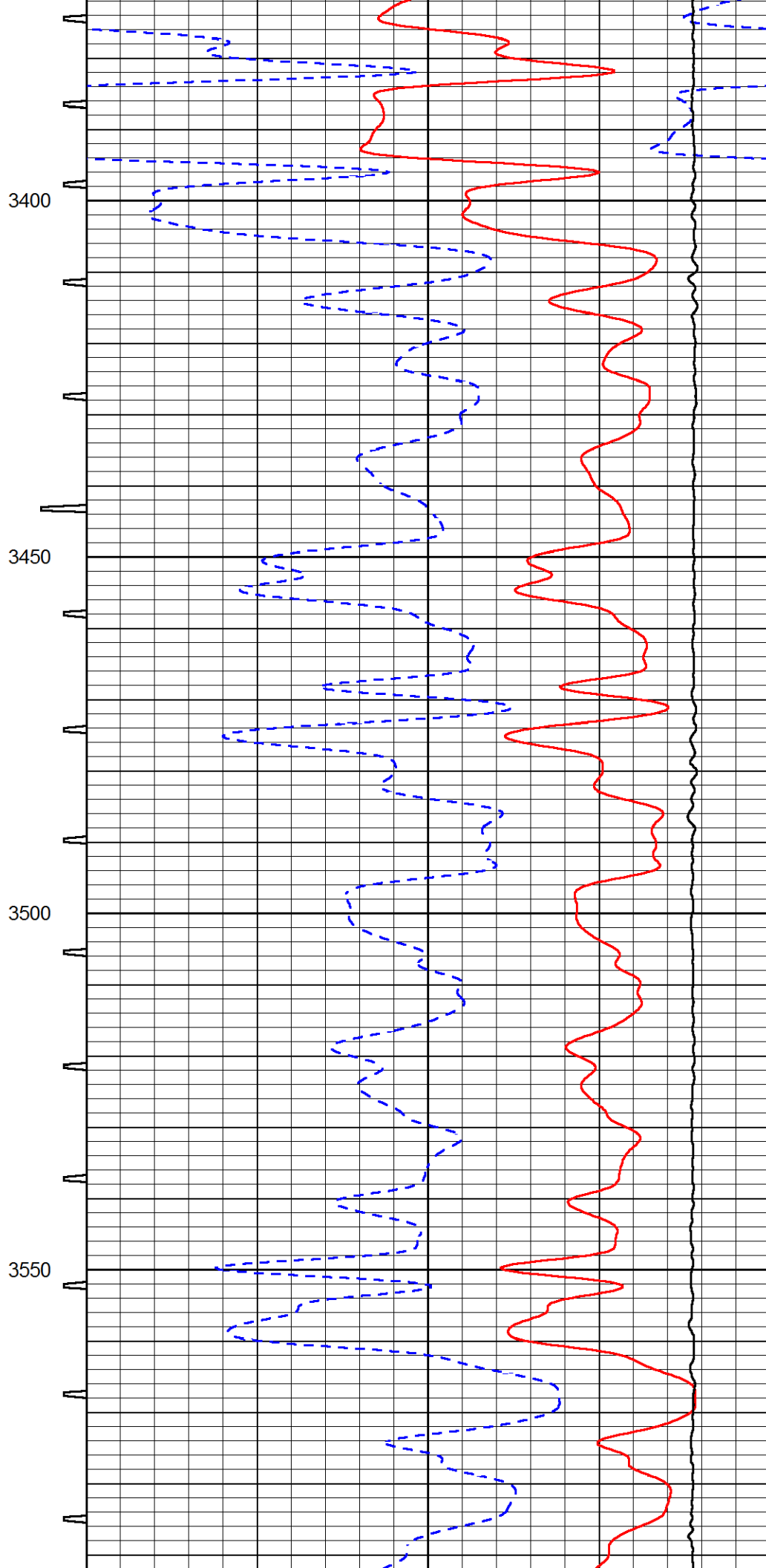
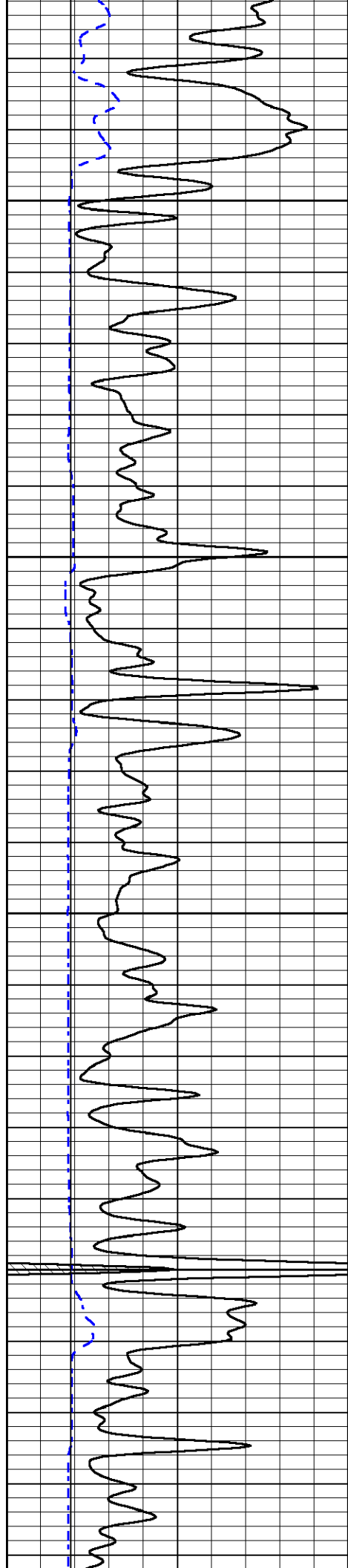


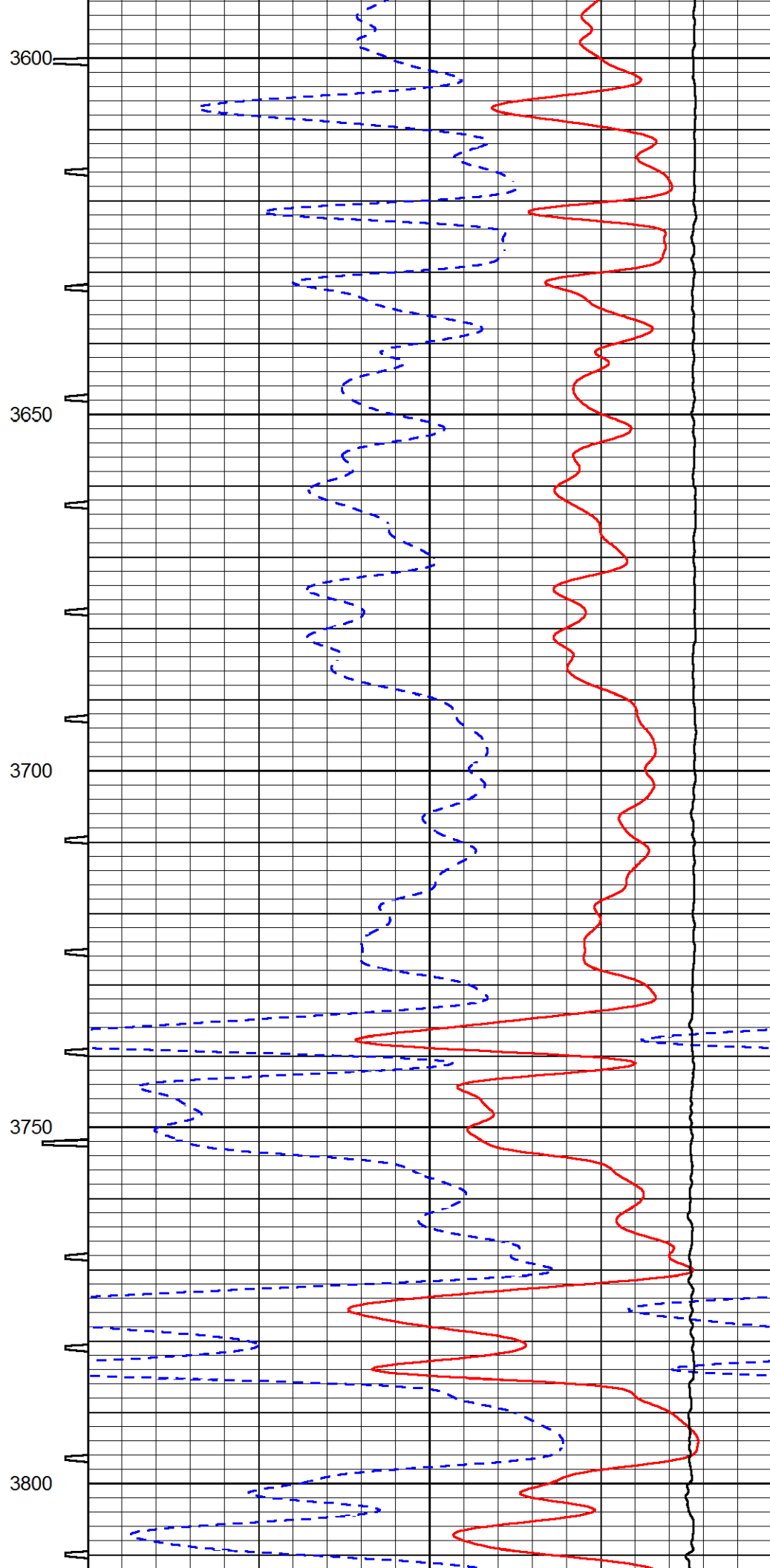
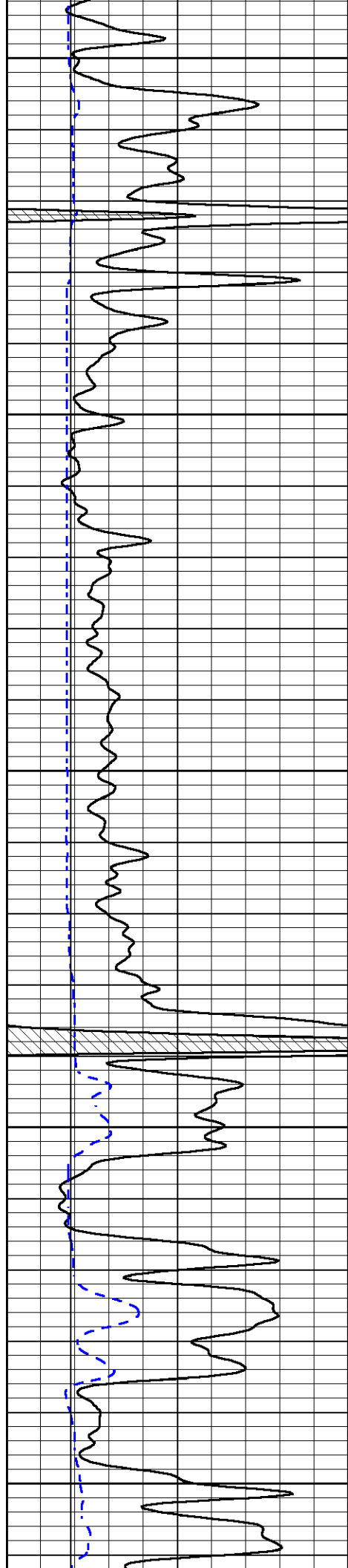


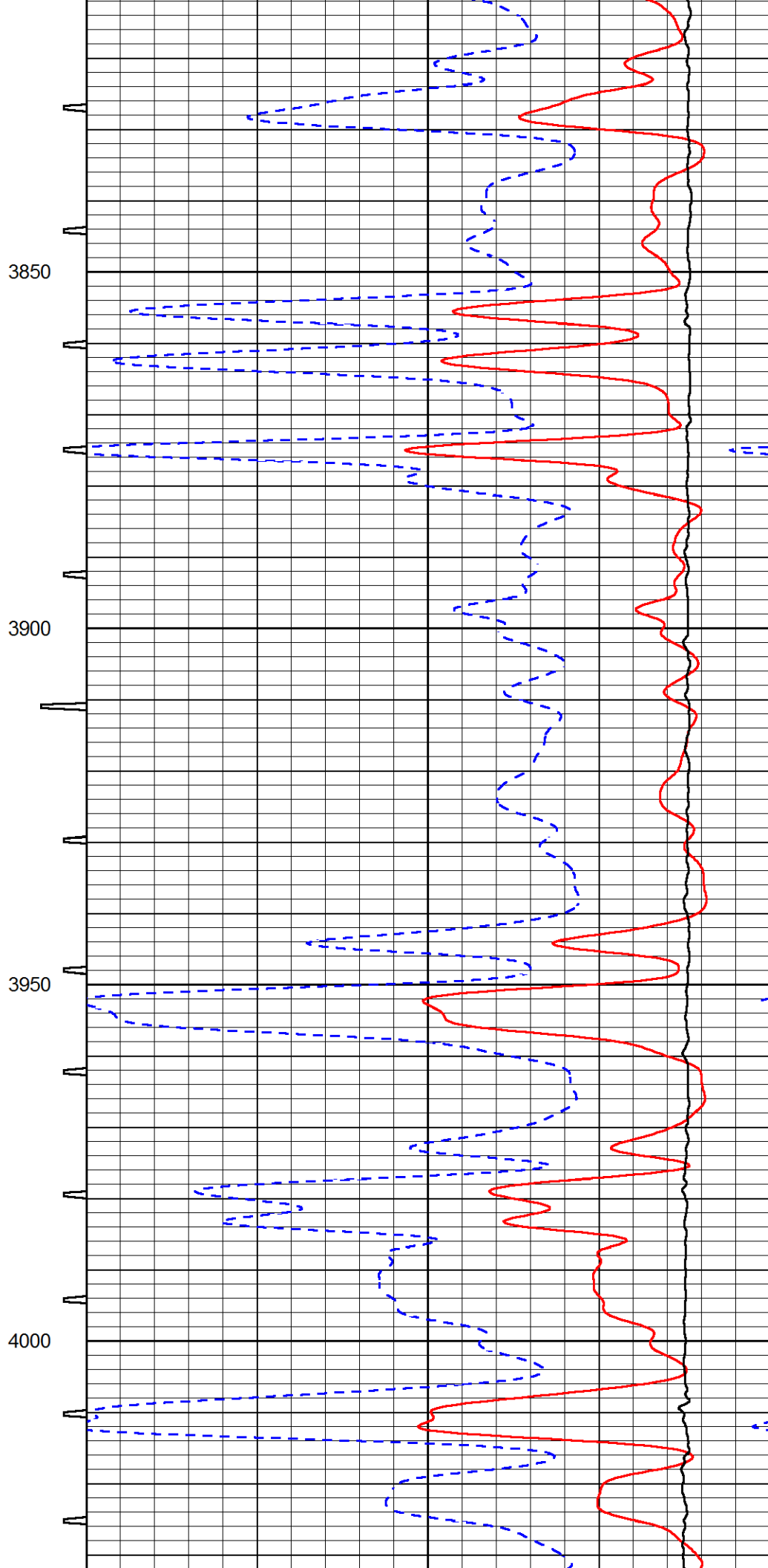
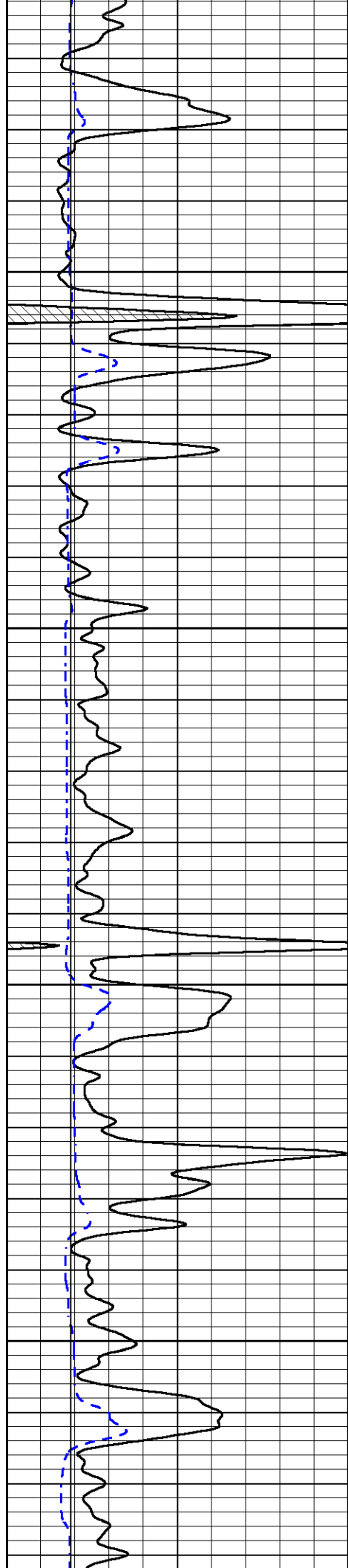


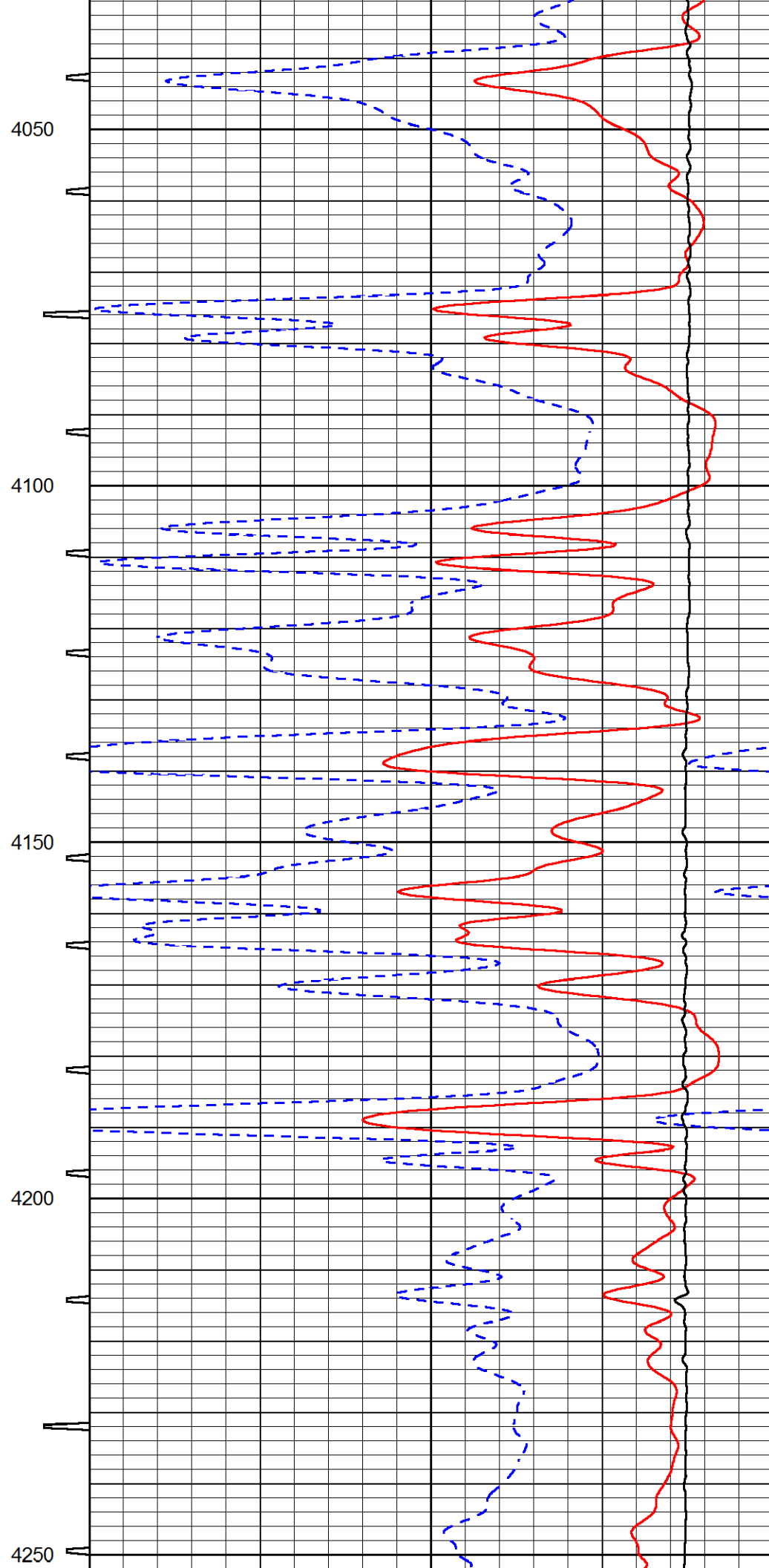
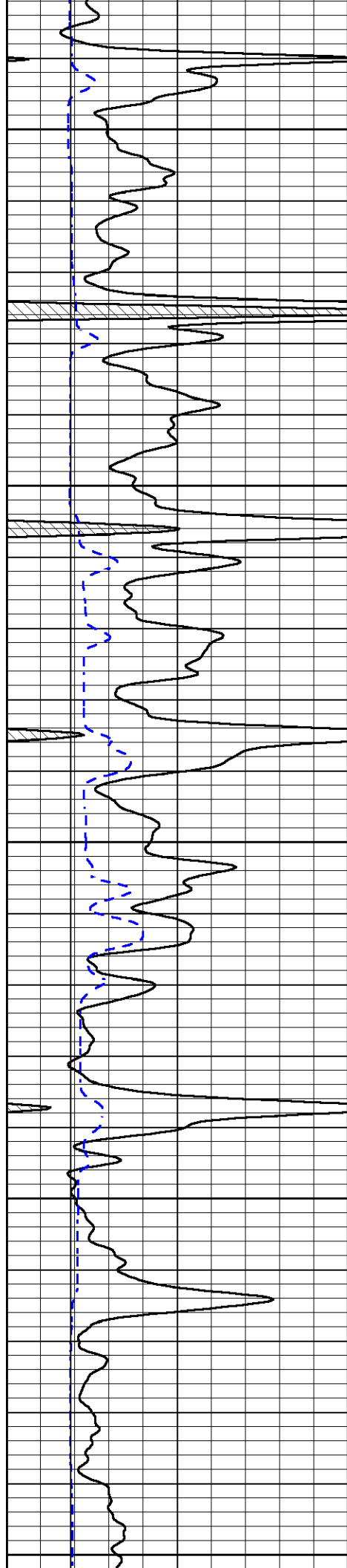


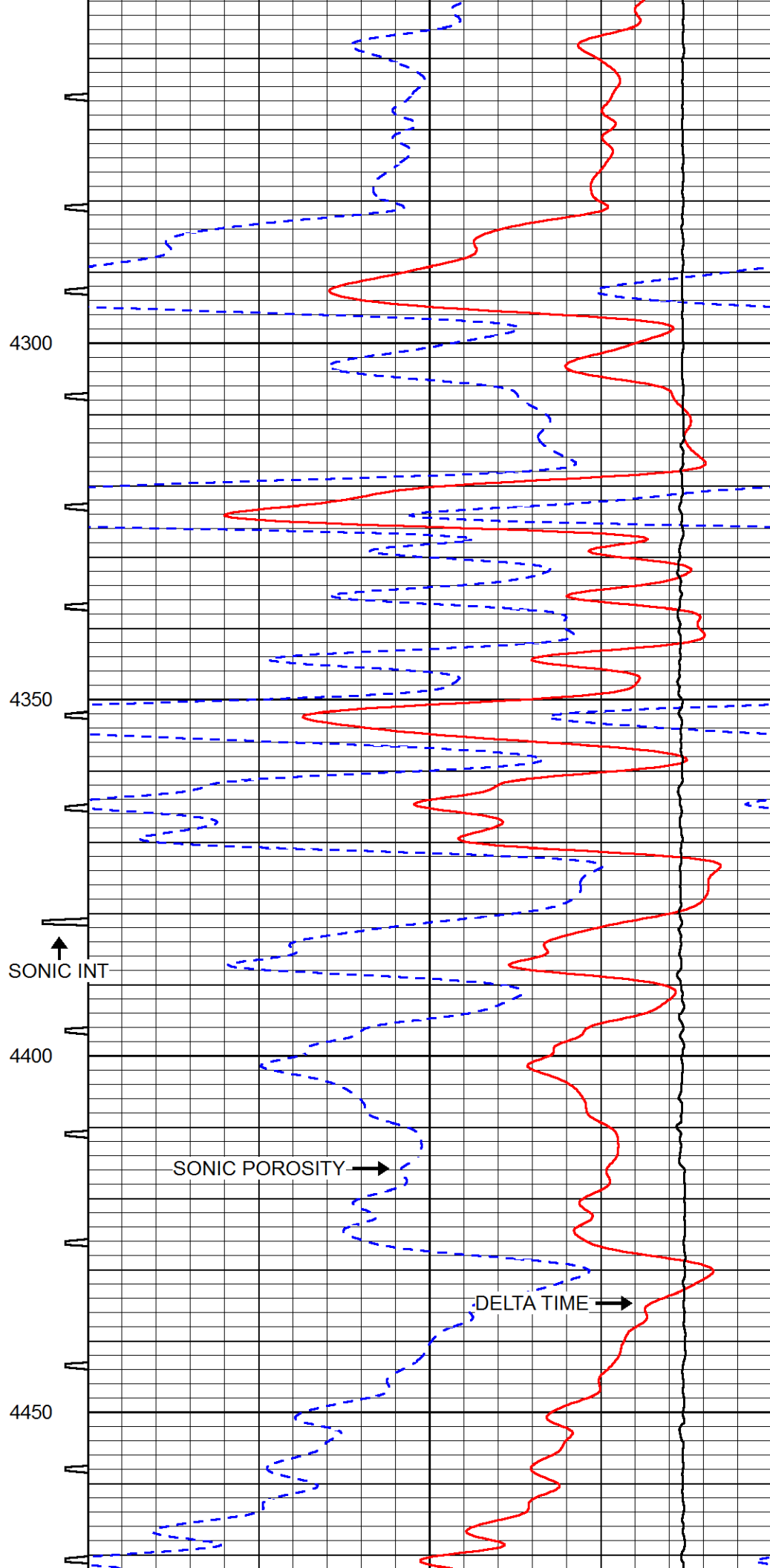
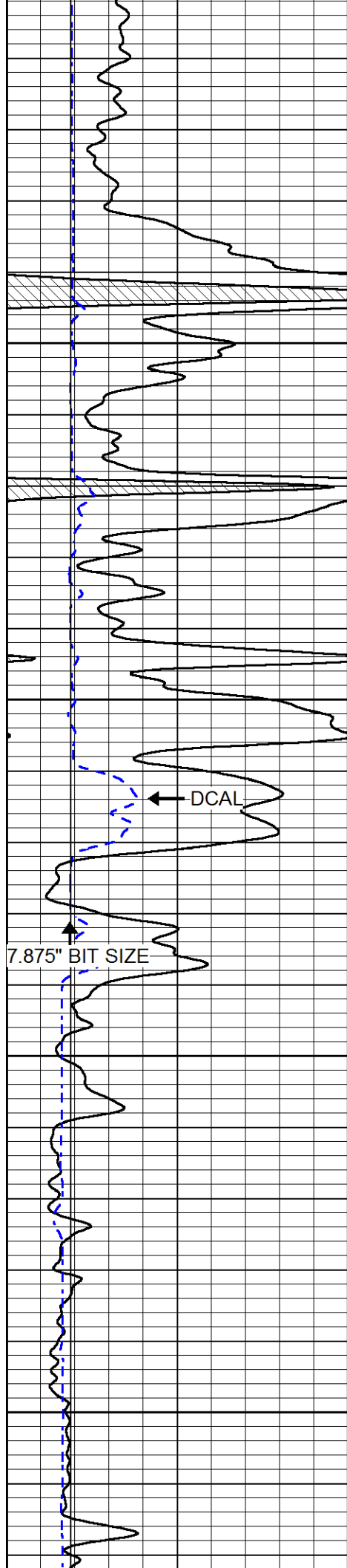


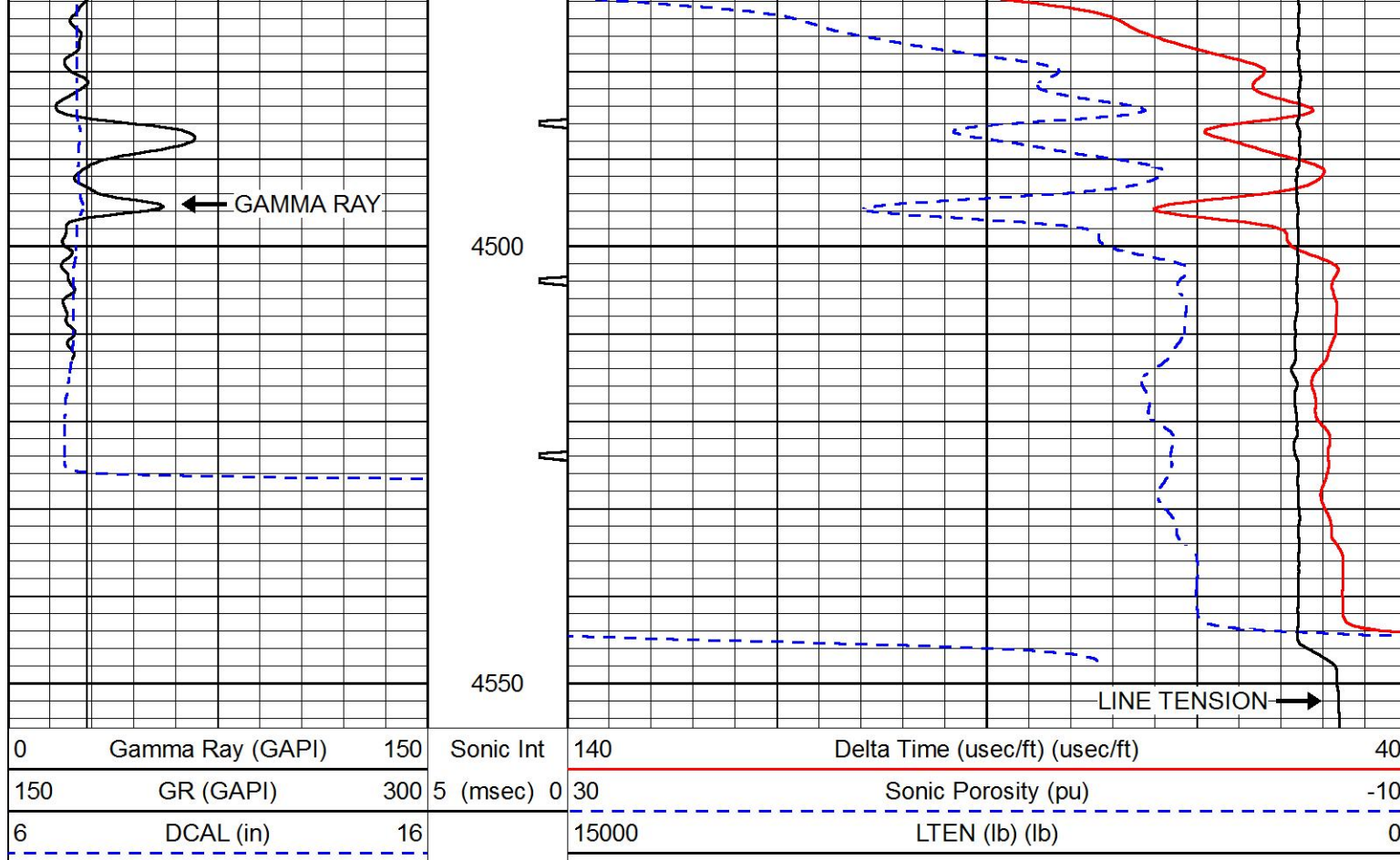








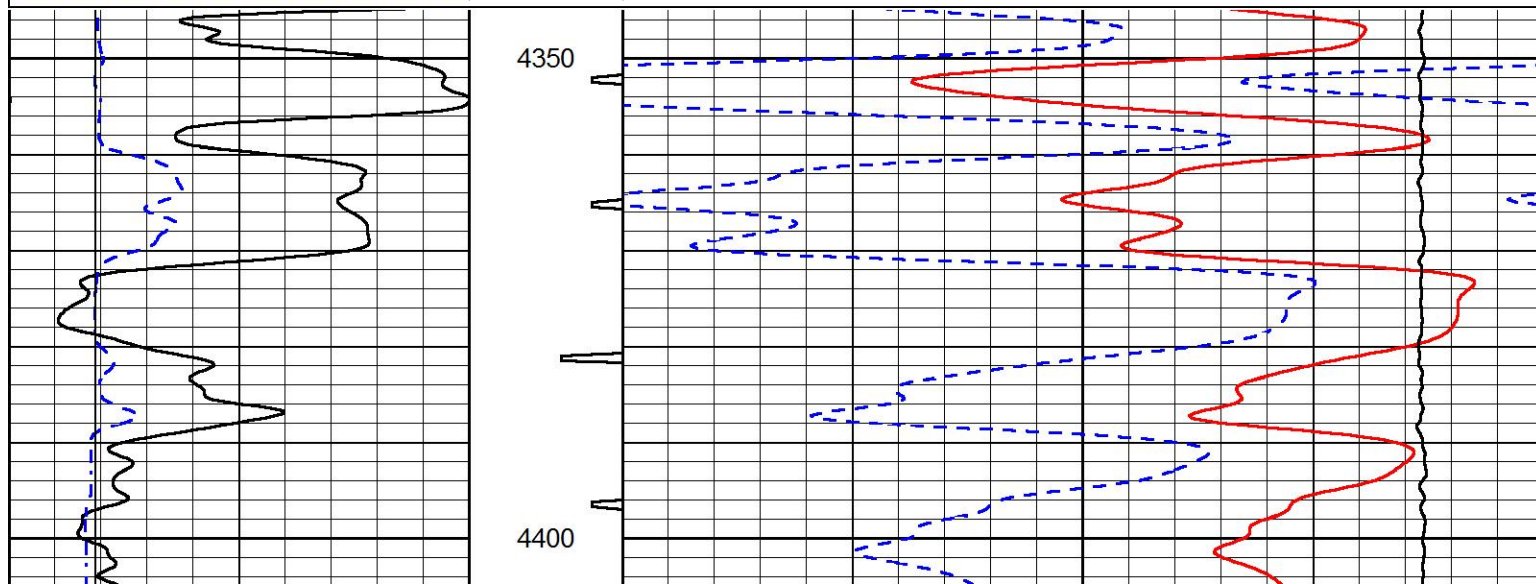


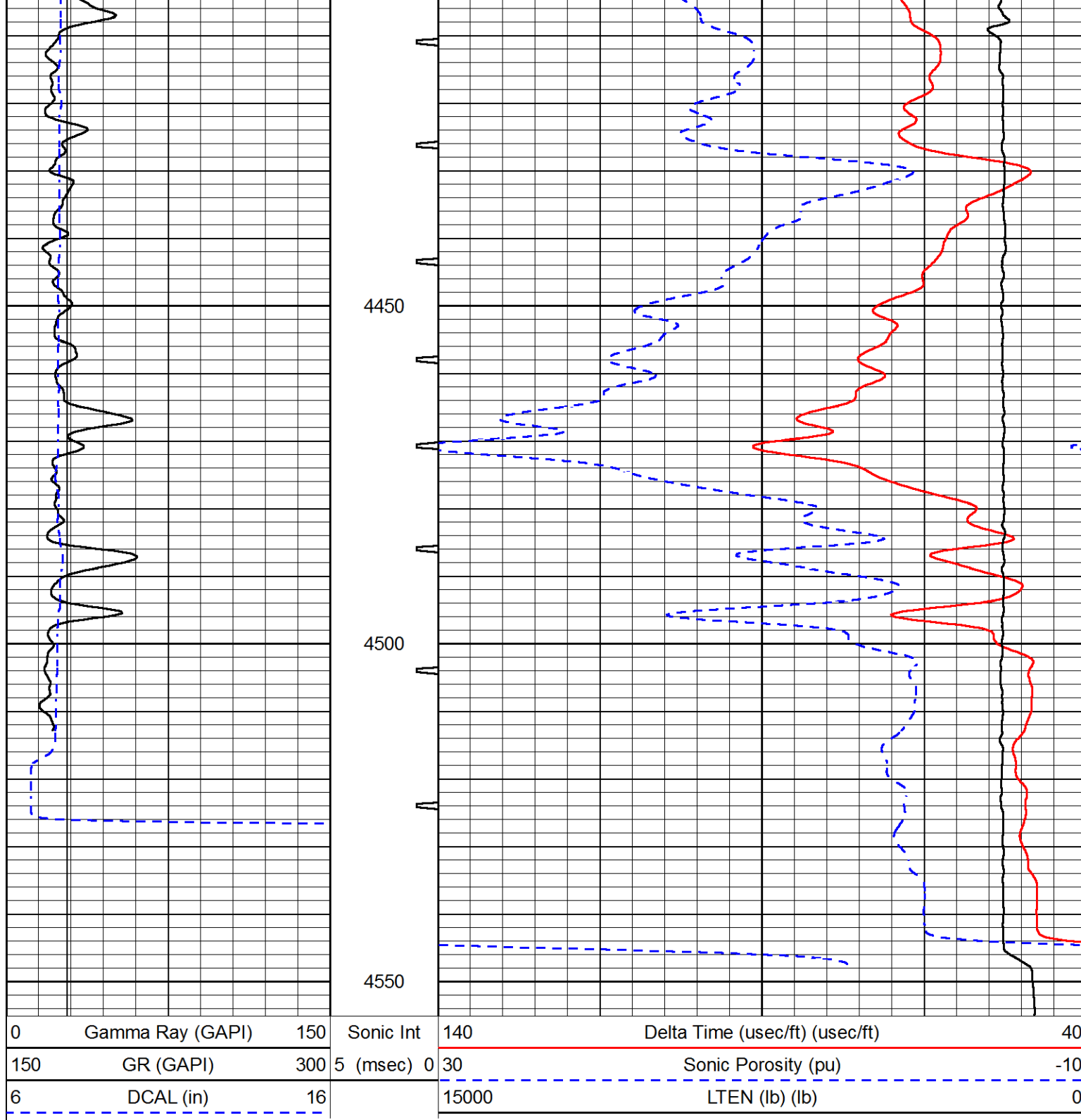


REPEAT SECTION

Database File palomino_uehling-schwie#1.db
 Dataset Pathname STACKML/pass2.2
 Presentation Format sonic
 Dataset Creation Wed Feb 21 04:00:29 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	palomino_uehling-schwien#1.db						
Dataset Pathname	STACKML/pass3.1						
Dataset Creation	Wed Feb 21 04:27:39 2018						
Dual Induction Calibration Report							
Serial-Model:				933 (HT)-PSI HIGH TEMP			
Calibration Performed:				Sun Feb 18 17:32:17 2018			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	Gain	Offset

Deep	167.000	835.000	0.000	255.000	mmho/m	0.700	-17.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.550	-61.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	25500.0000	0.1000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.9000

Compensated Density Calibration Report

Serial-Model:	182-152-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Mon Feb 12 16:20:26 2018

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		4992.81	6098.44	cps
Aluminum	2.675	g/cc		945.67	3945.60	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.535			
	Size			Reading		
Small Ring	4.50	in		1.09		
Large Ring	15.00	in		1.03		

Compensated Neutron Calibration Report

Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	MON JAN 15 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	PALOMINO PETROLEUM, INC.
Well	UEHLING-SCHWIEN #1
Field	WILDCAT
County	NESS
State	KANSAS