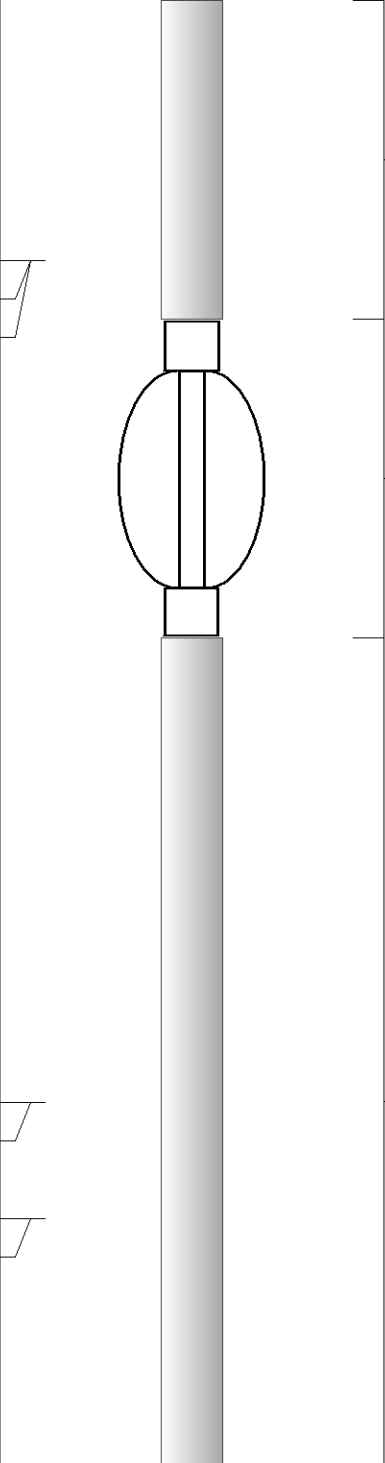
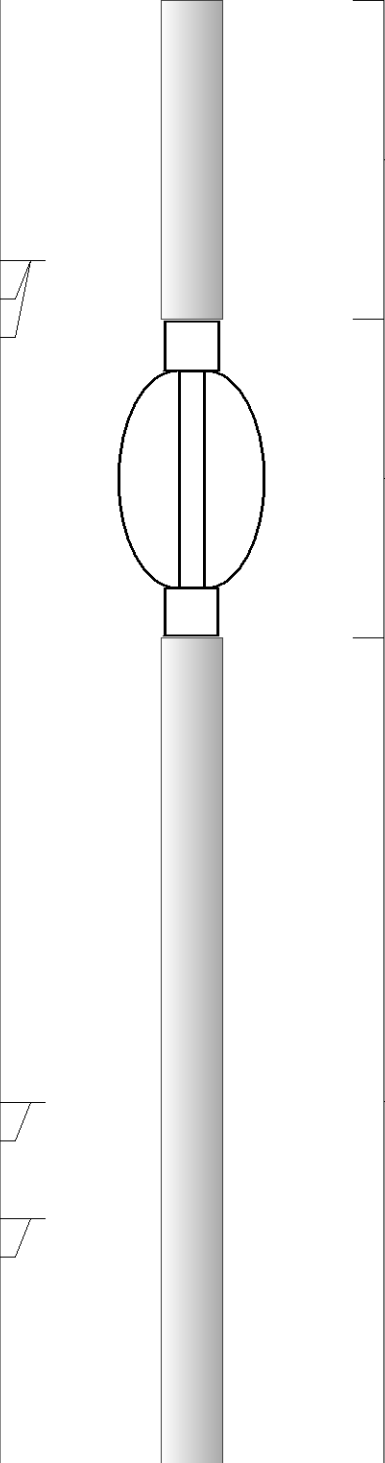
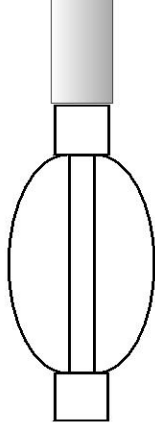


Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-115	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	75	0	5.5	0	4899	125	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	28.00		ML-Armadillo (ARM001) Pengo Mandrel & Armadillo ML Electronics (2014)	5.50	3.50	100.00
	28.00		CENT-PENGO (4-PENGO)	5.50	3.00	70.00
	28.00					
WVF4 WVF1	13.50 13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	11.50 11.50					



CENT-PENGO (3-PENGO)

5.50

3.00

70.00

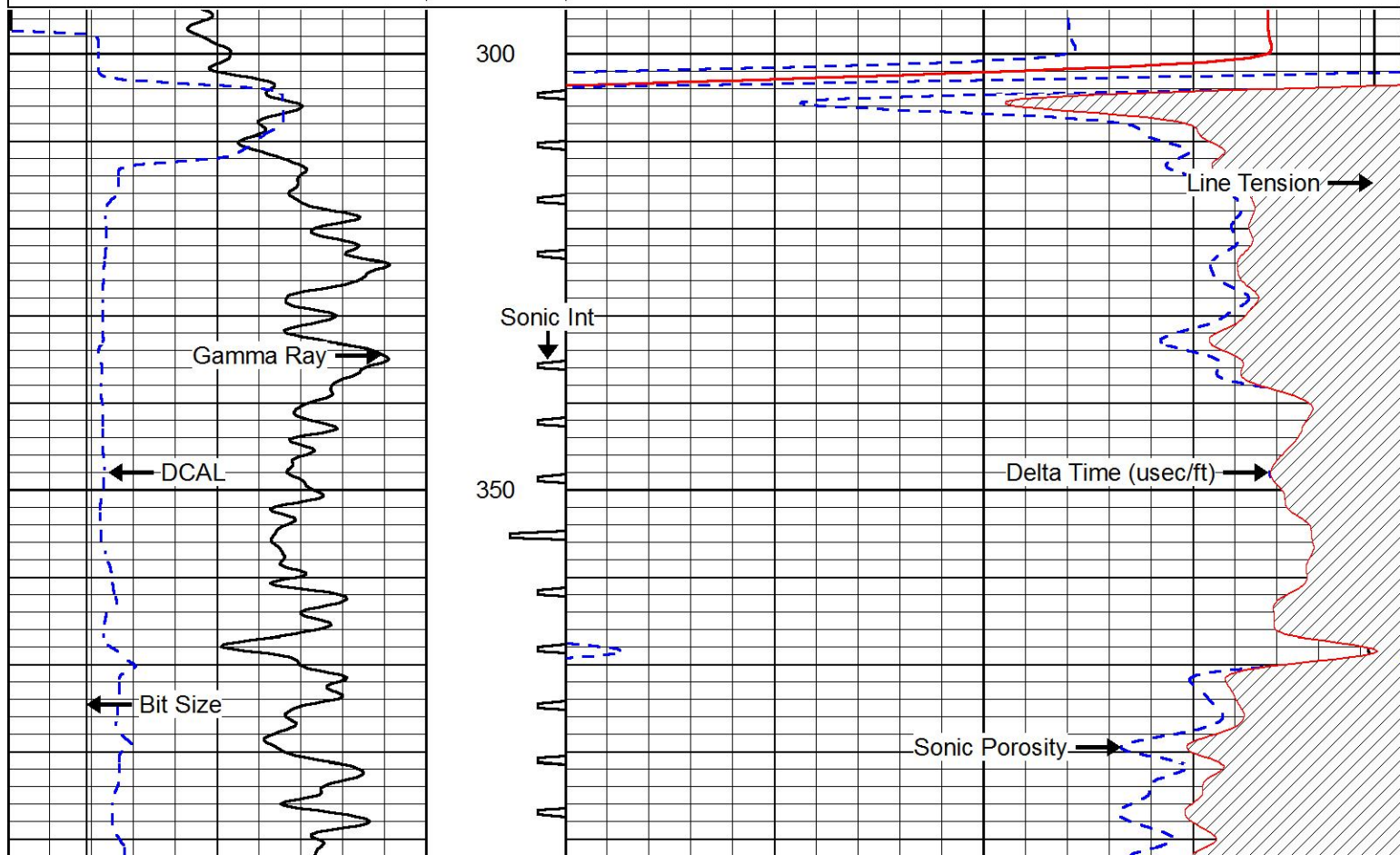
Dataset: funk_calliham trust_#1-18.db: field/well/sonmel/pass3
Total length: 32.50 ft
Total weight: 540.00 lb
O.D.: 3.50 in

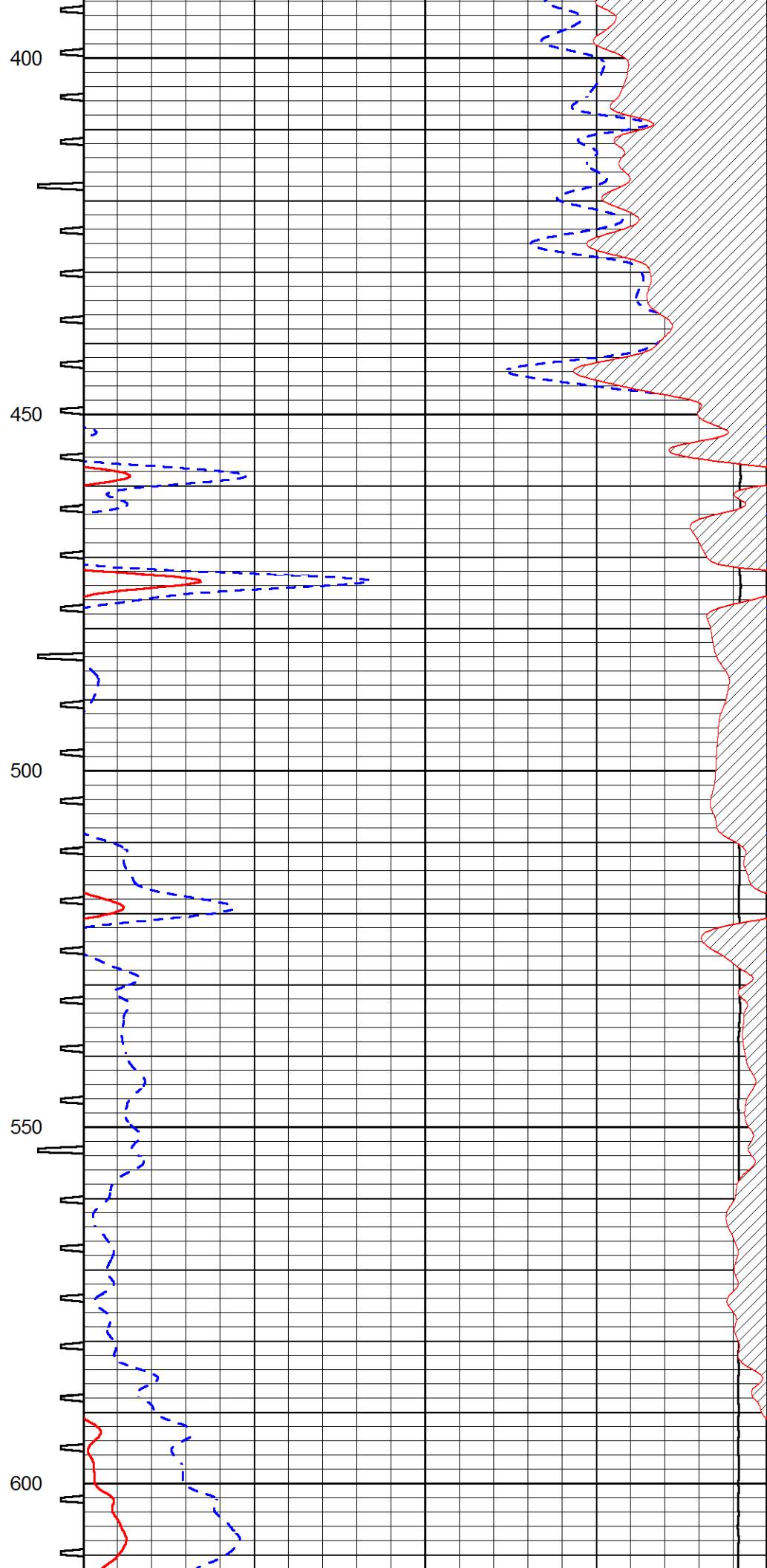
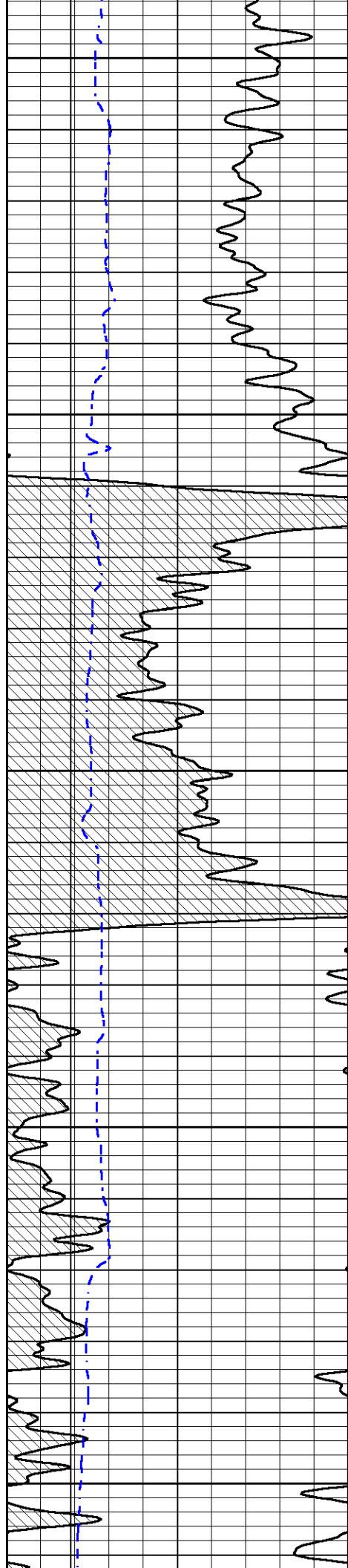


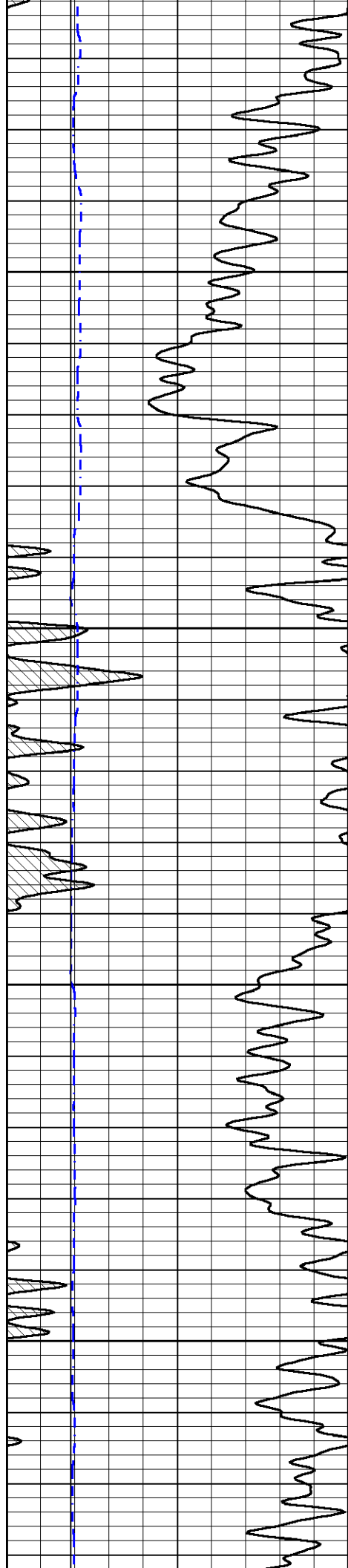
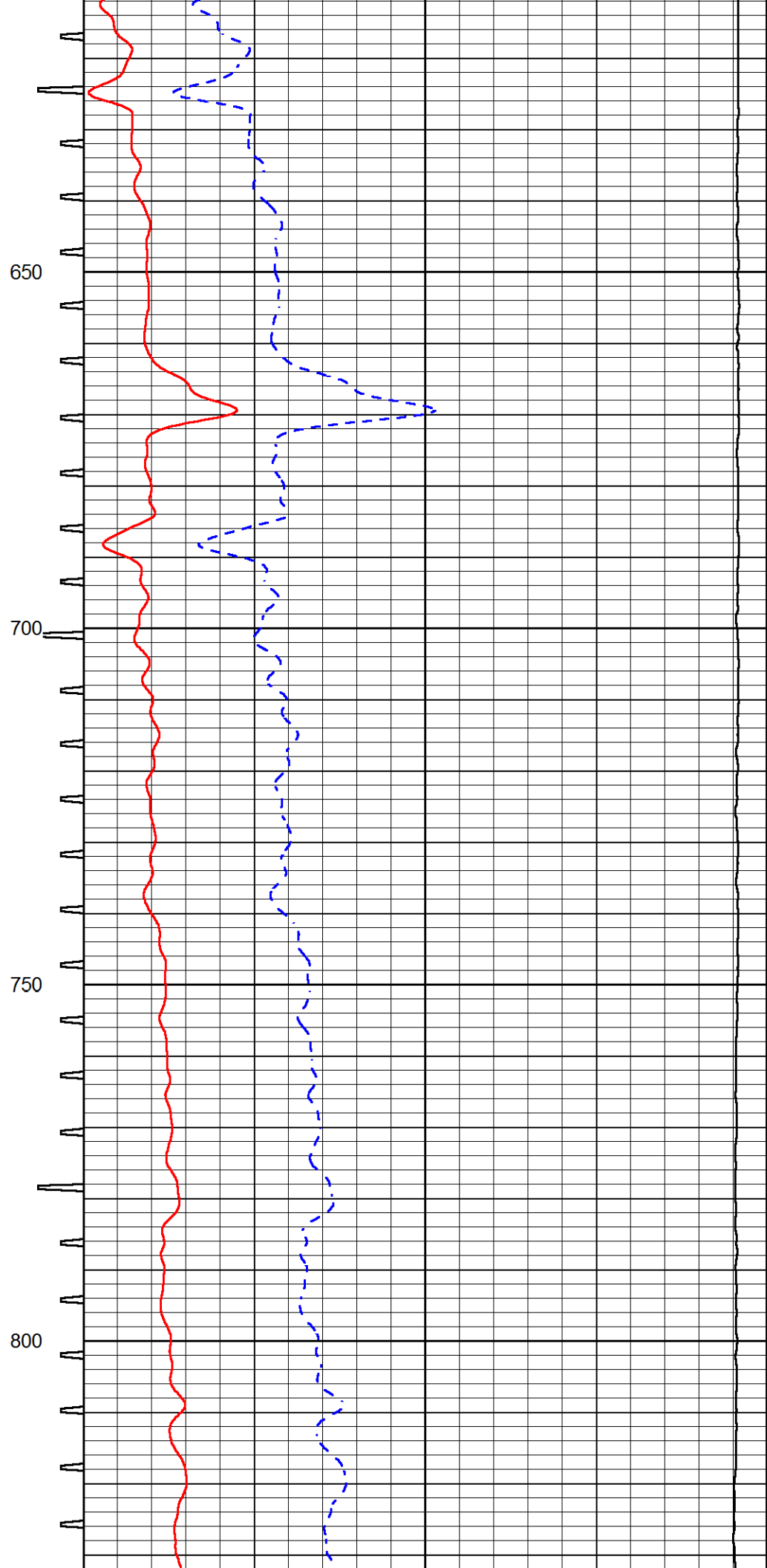
MAIN PASS

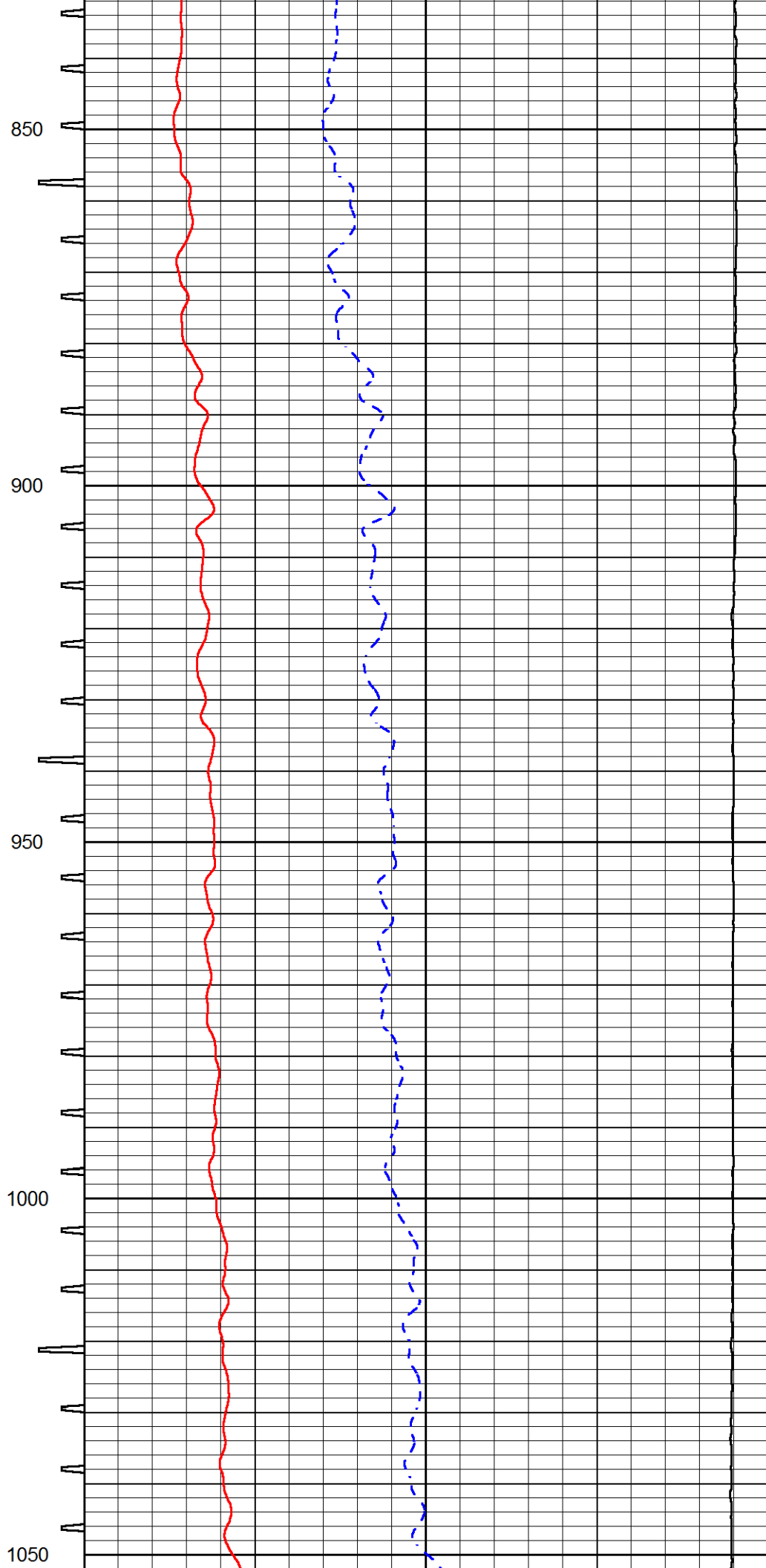
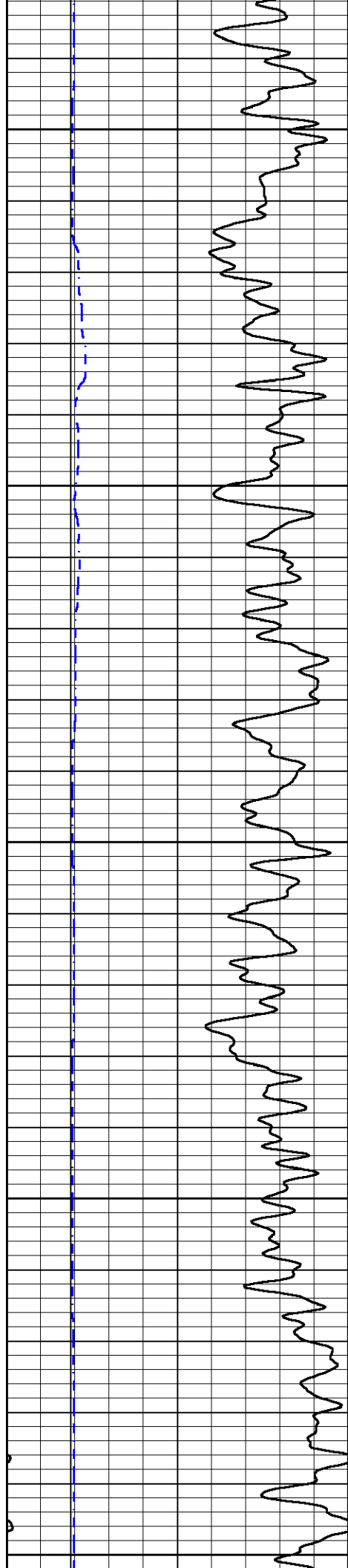
Database File funk_calliham trust_#1-18.db
Dataset Pathname stckml/pass4.1
Presentation Format sonic
Dataset Creation Sat Oct 15 15:27:40 2016
Charted by Depth in Feet scaled 1:240

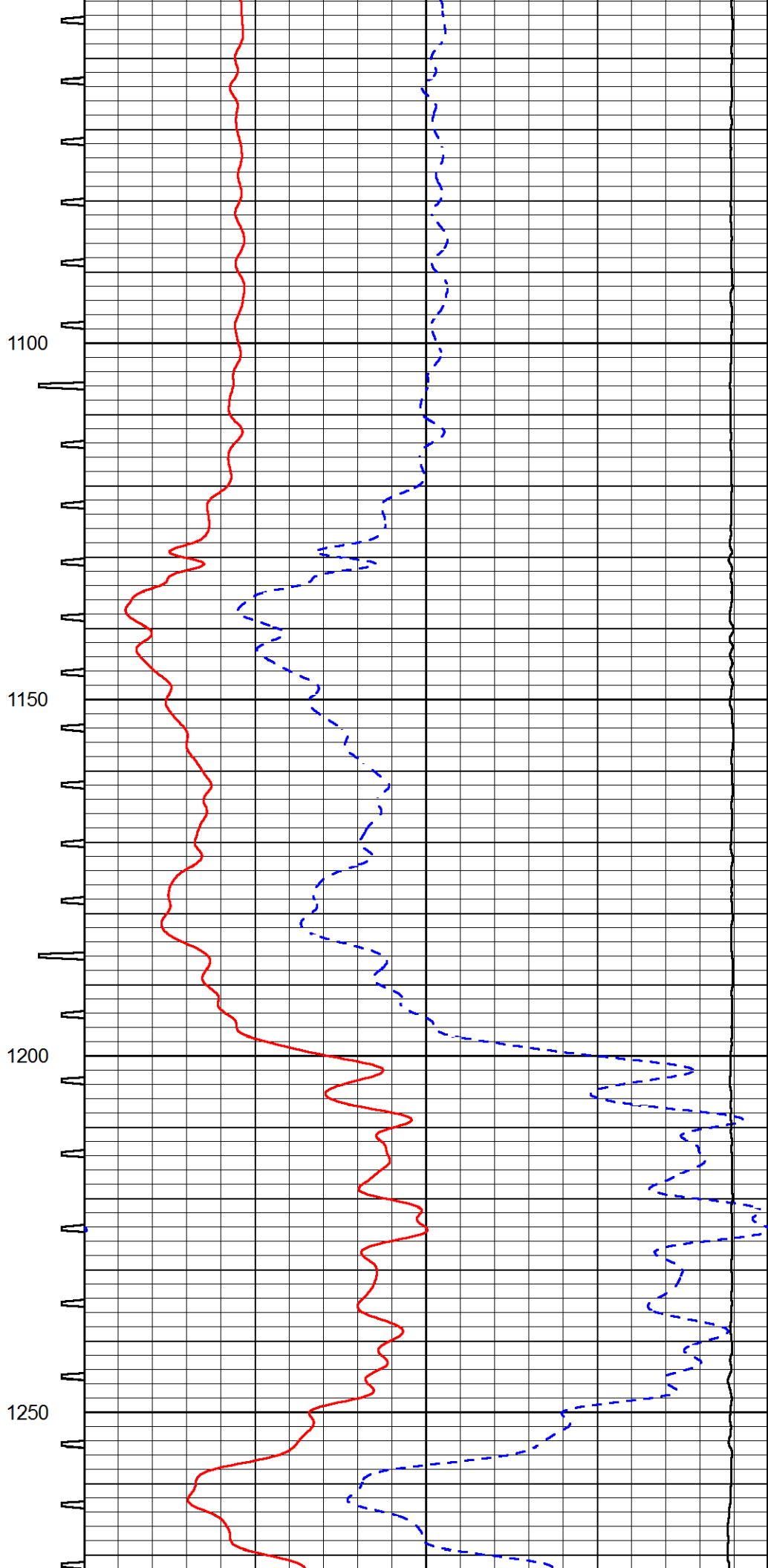
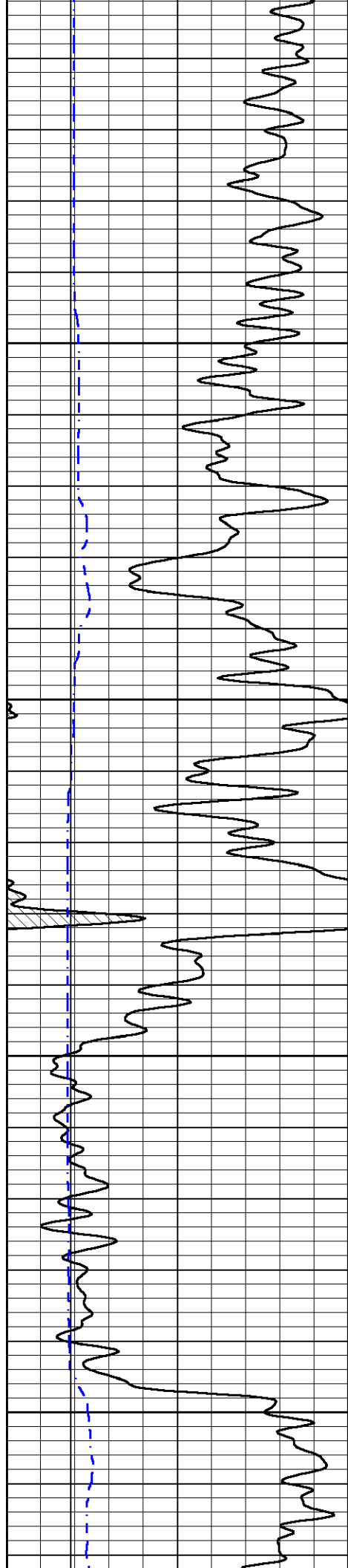
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

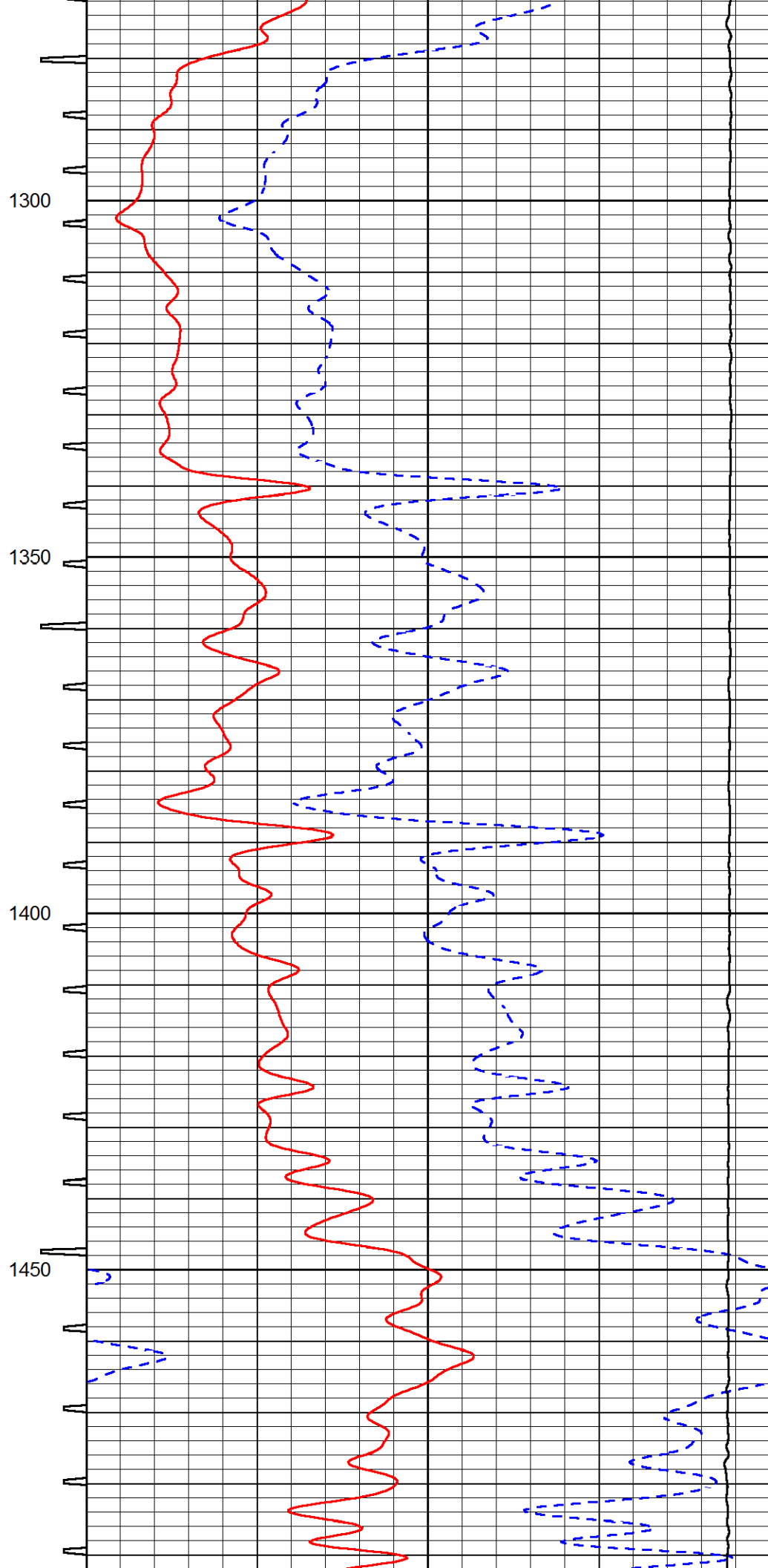
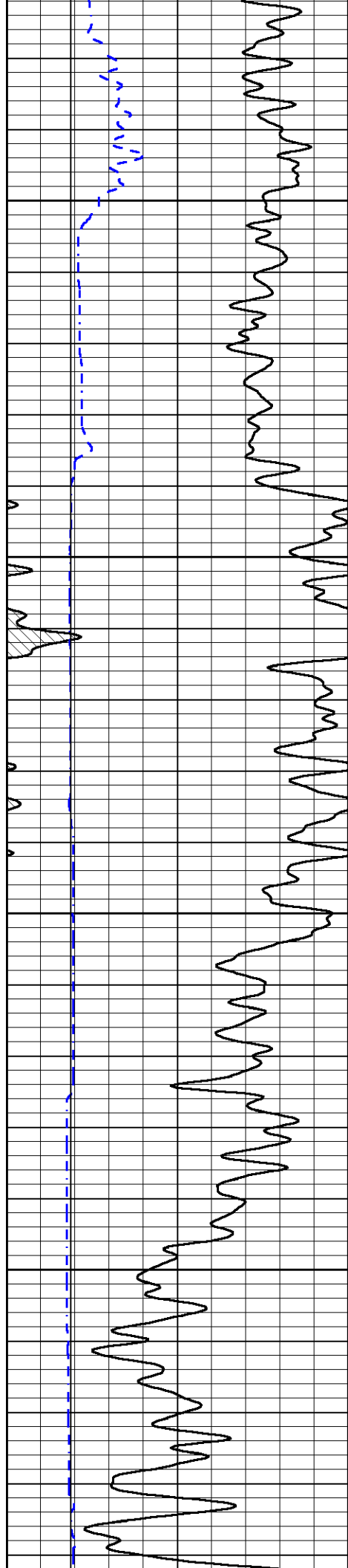


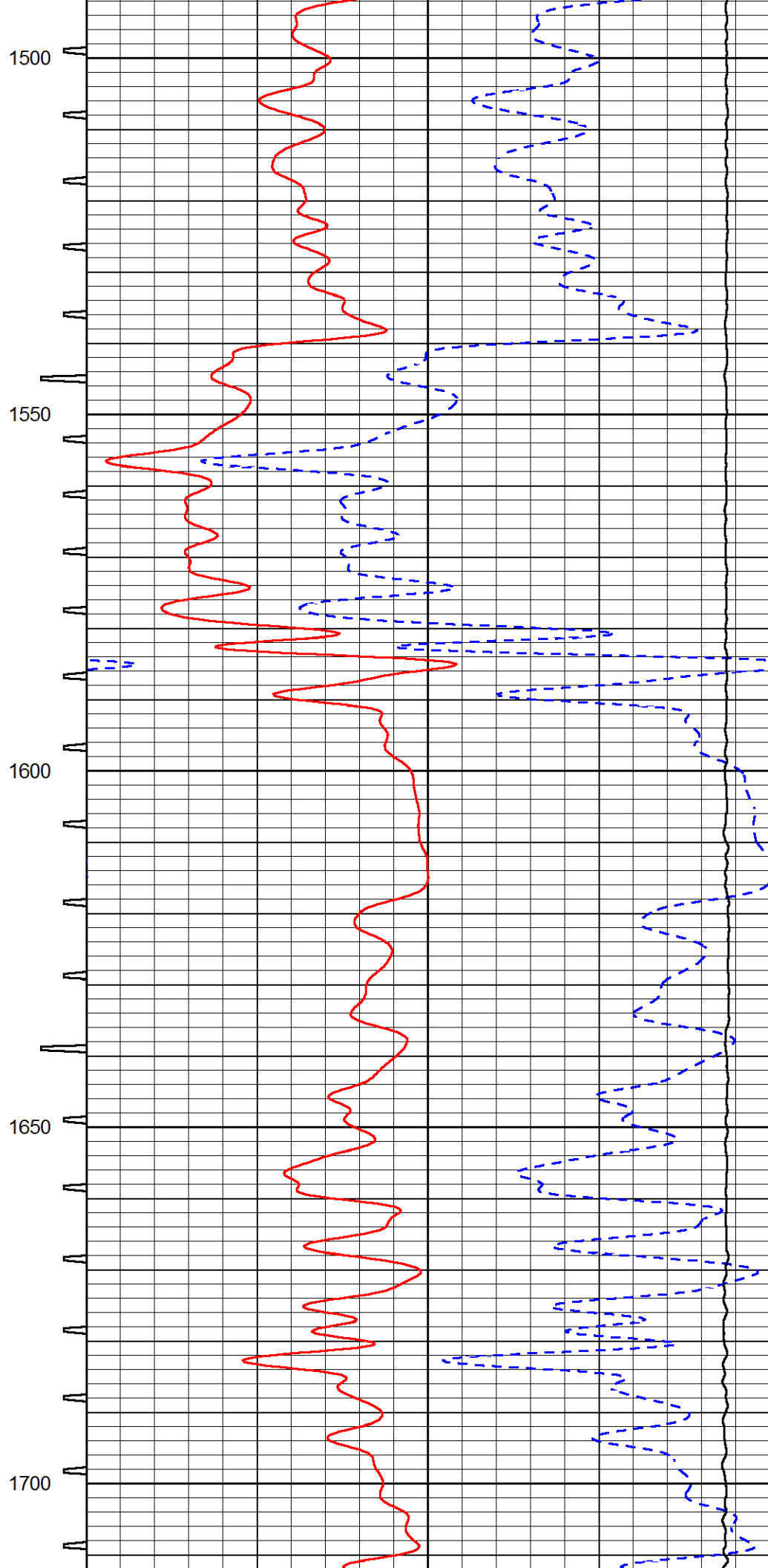
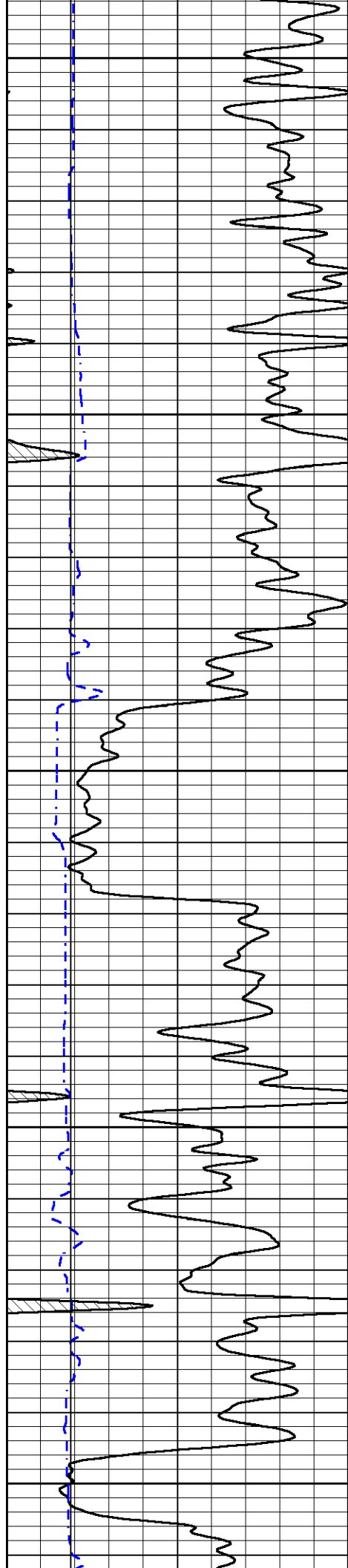


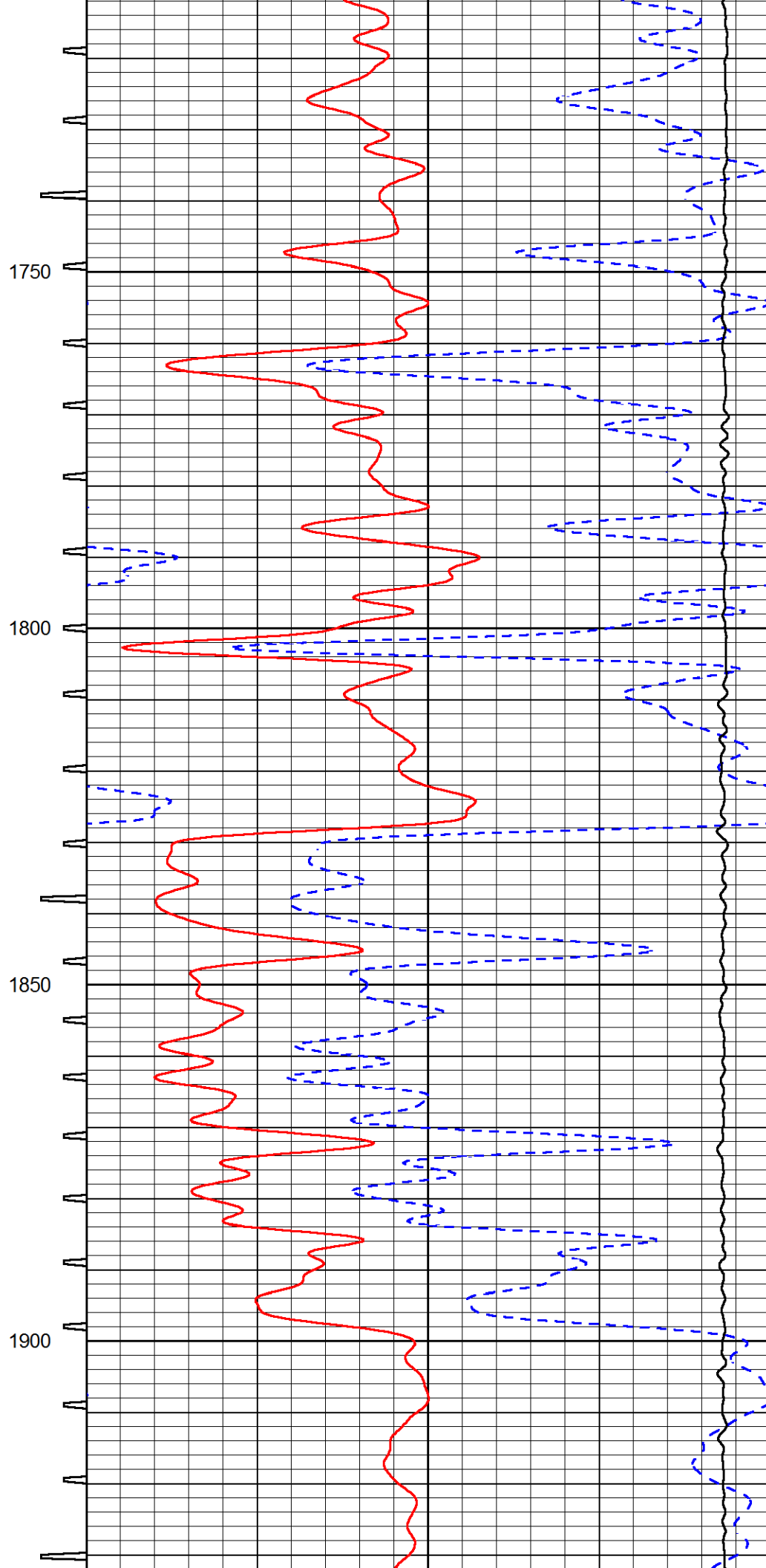
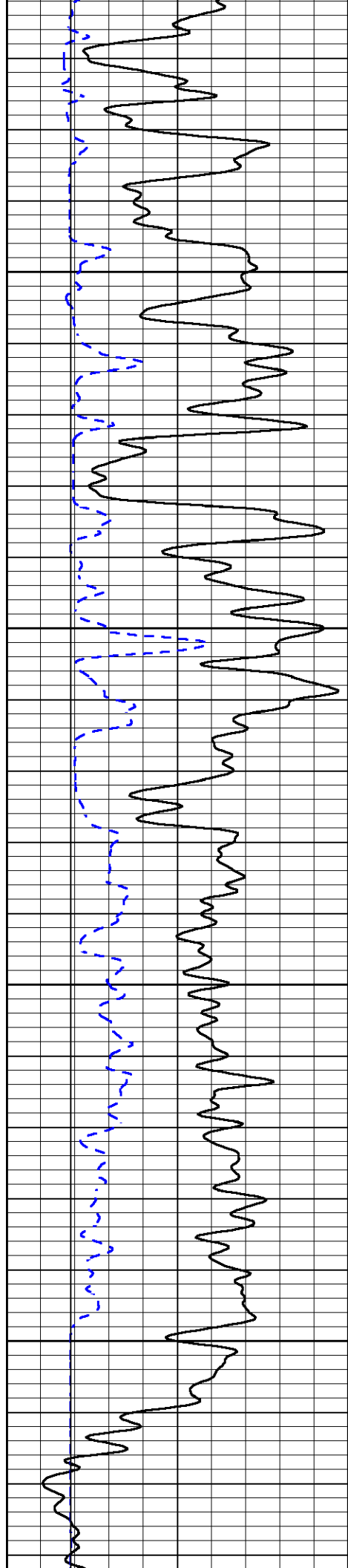


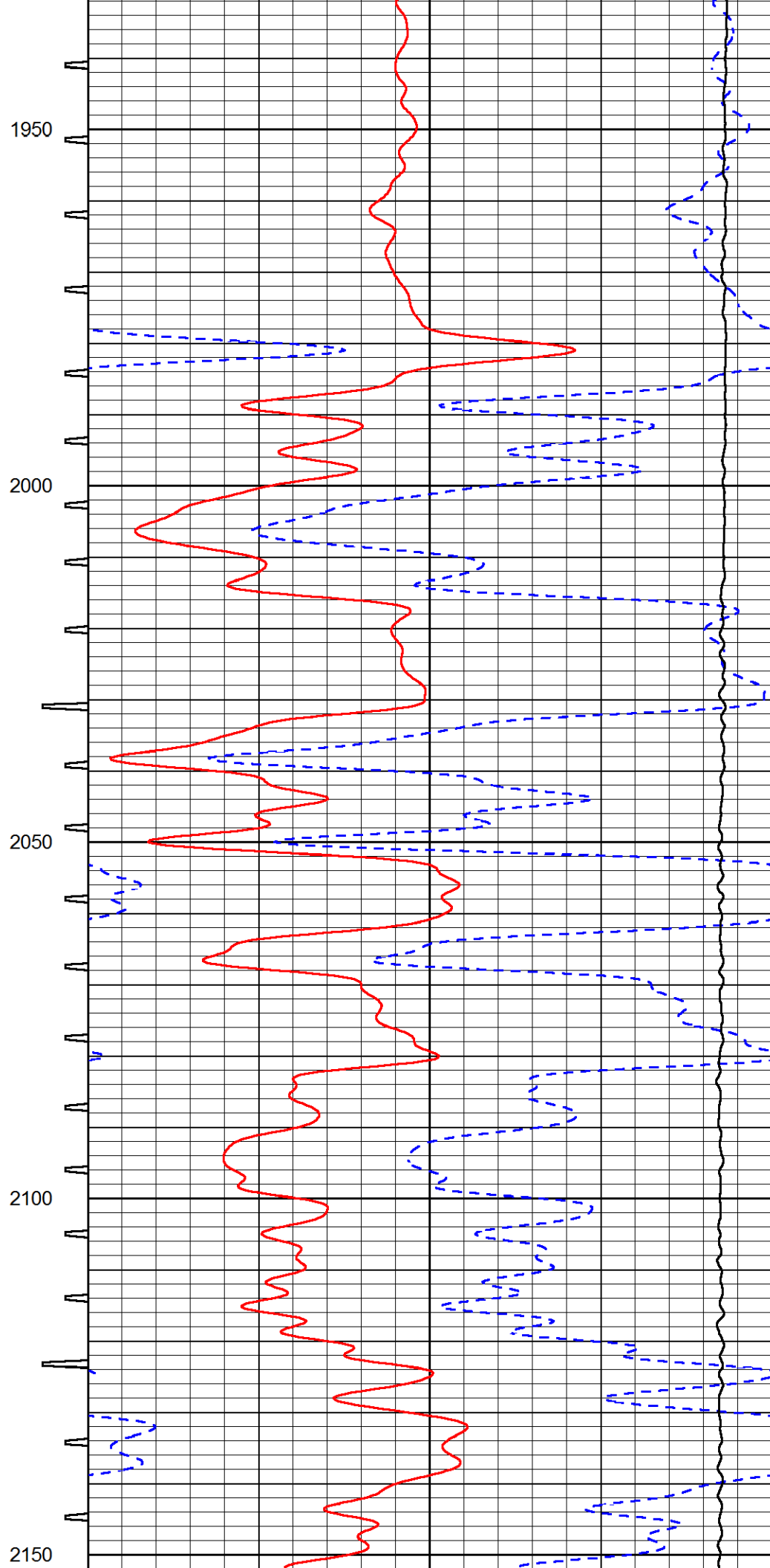
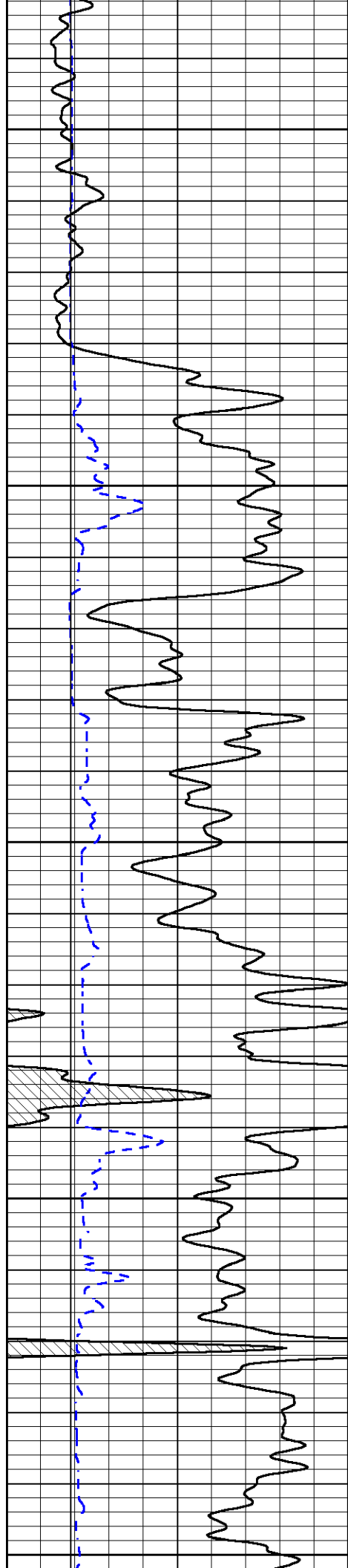


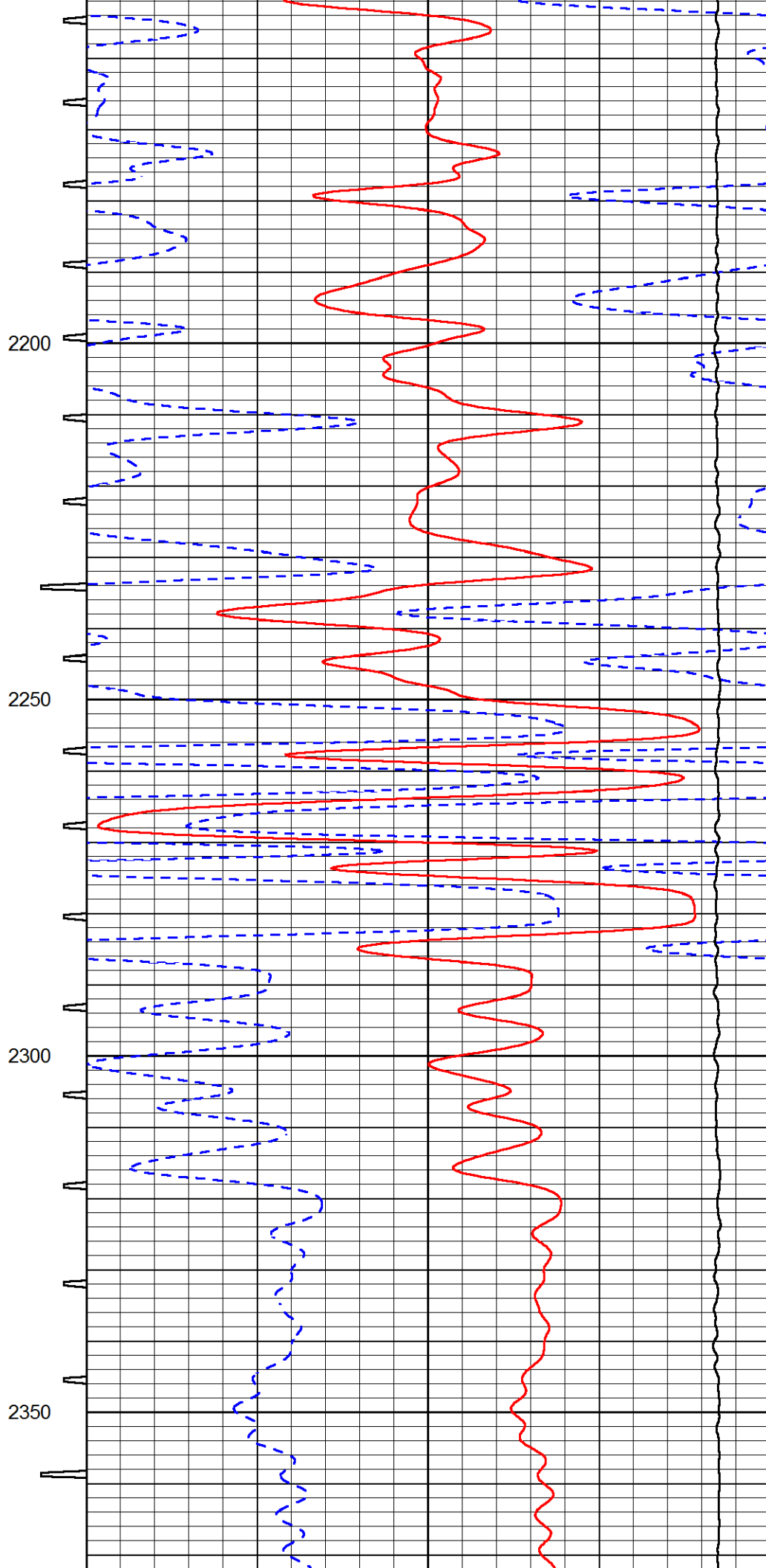
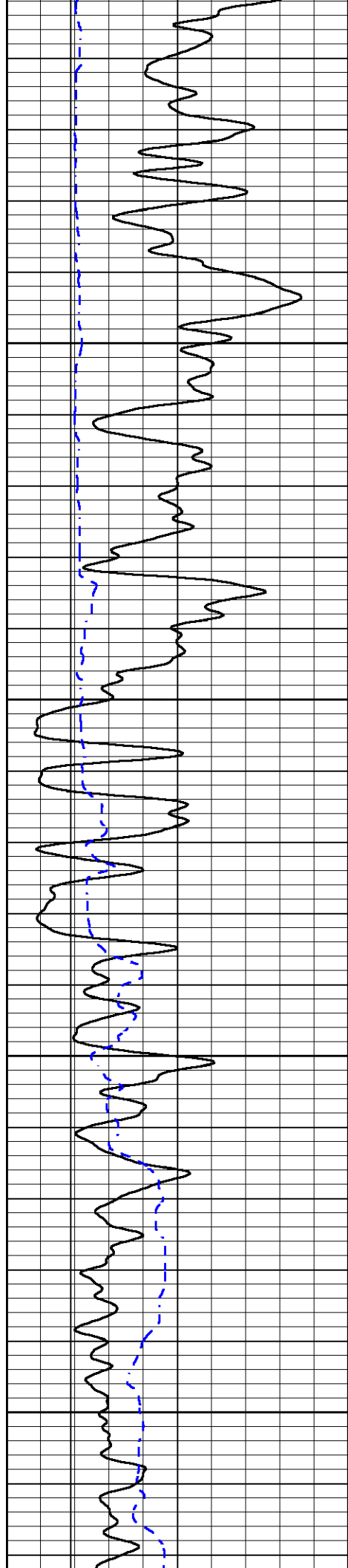


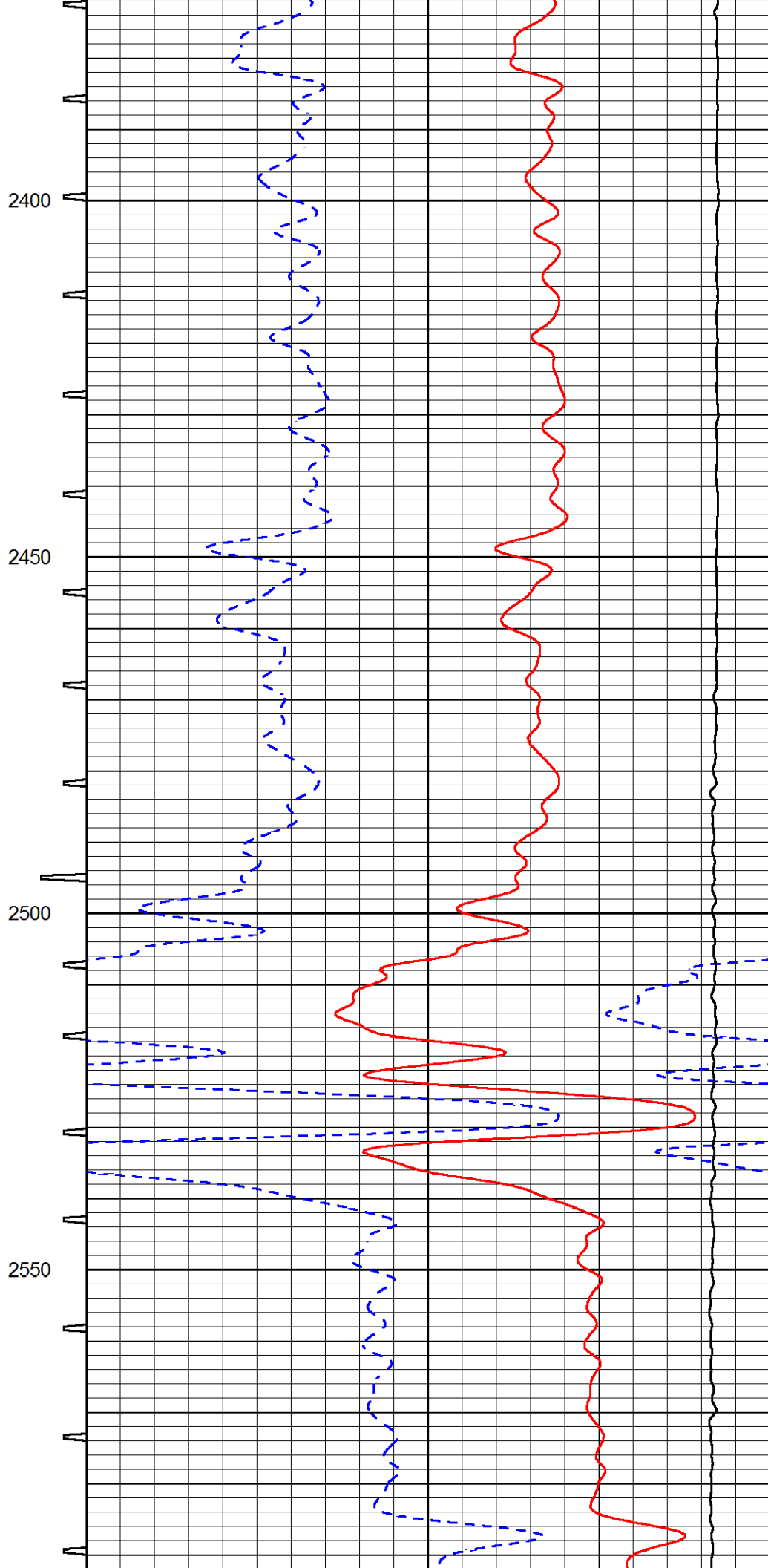
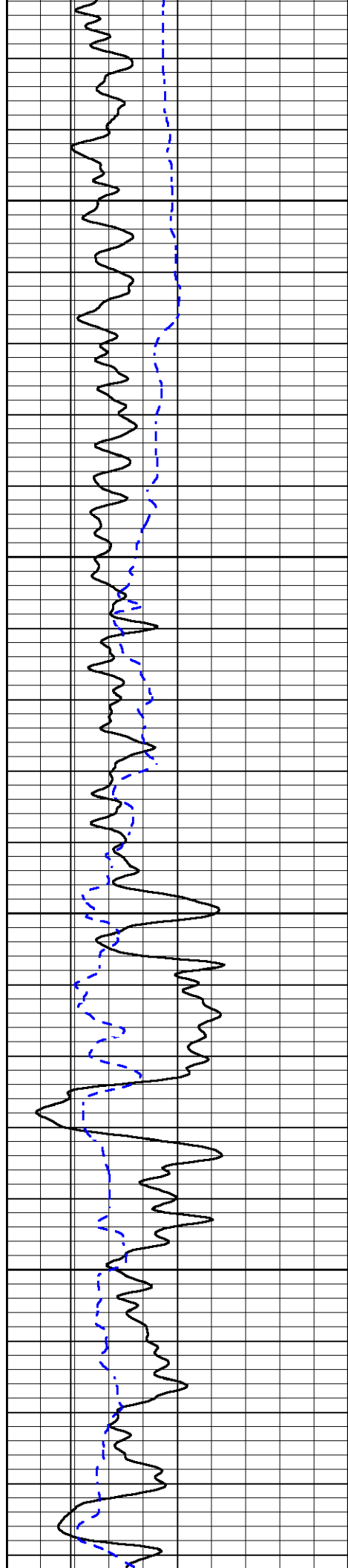


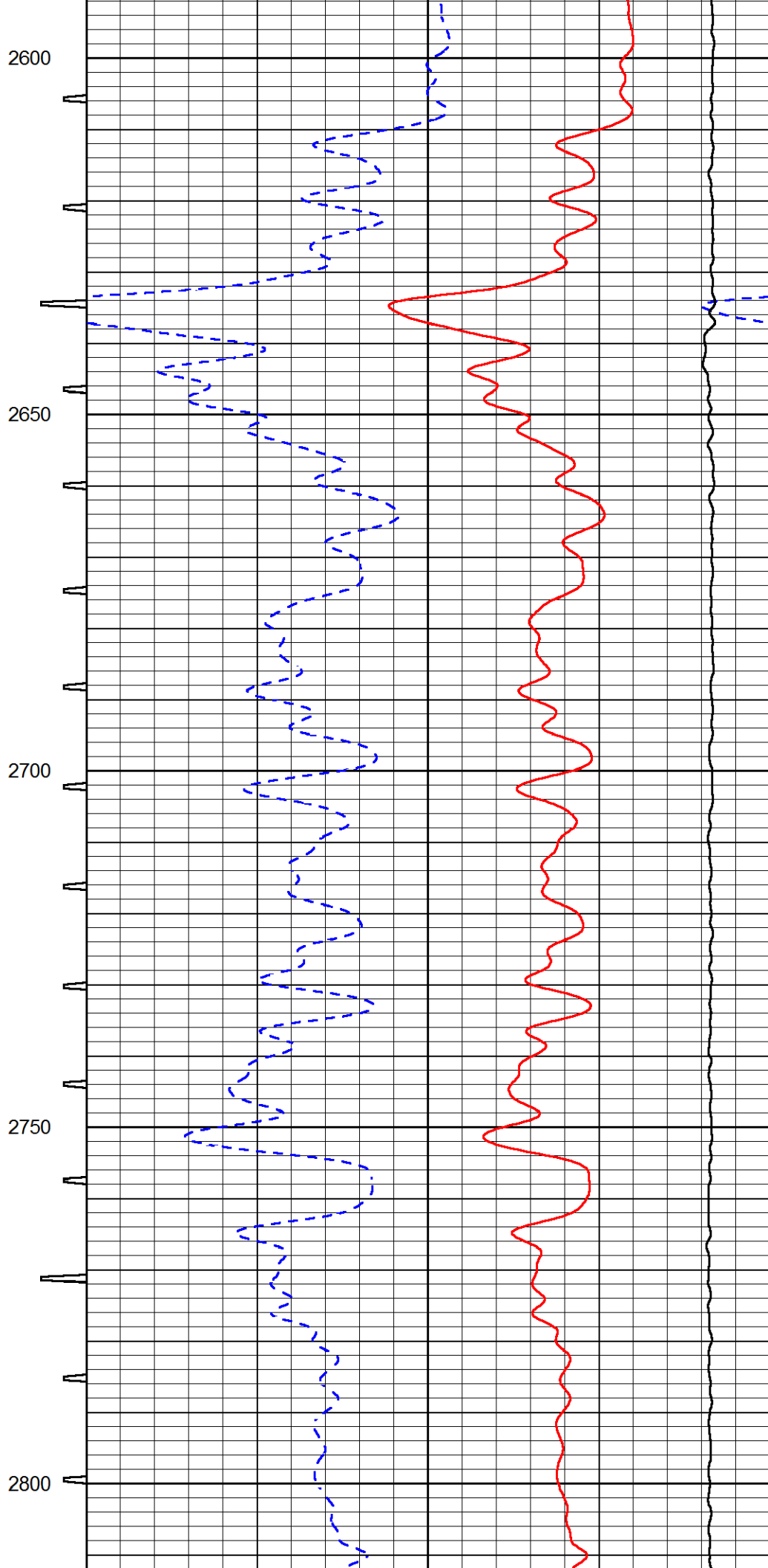
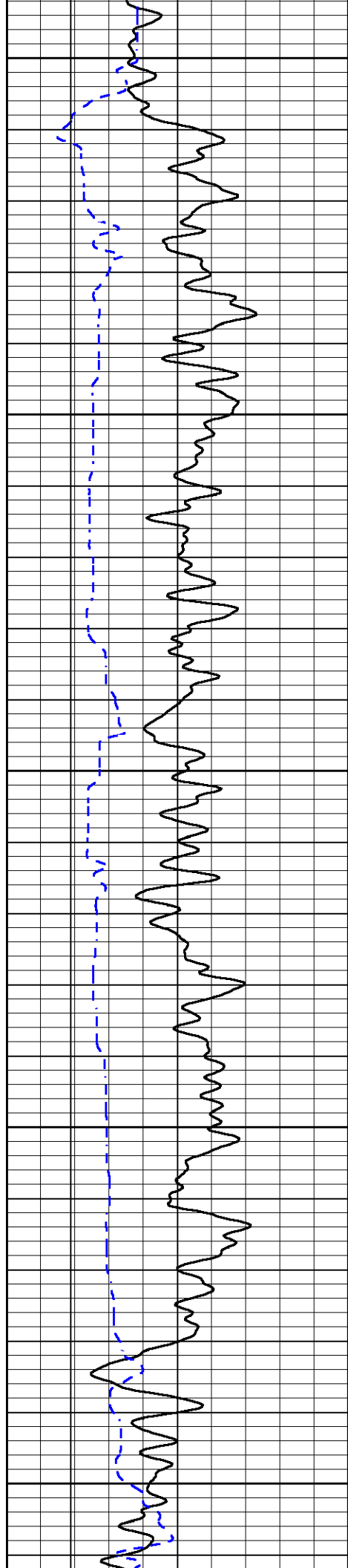


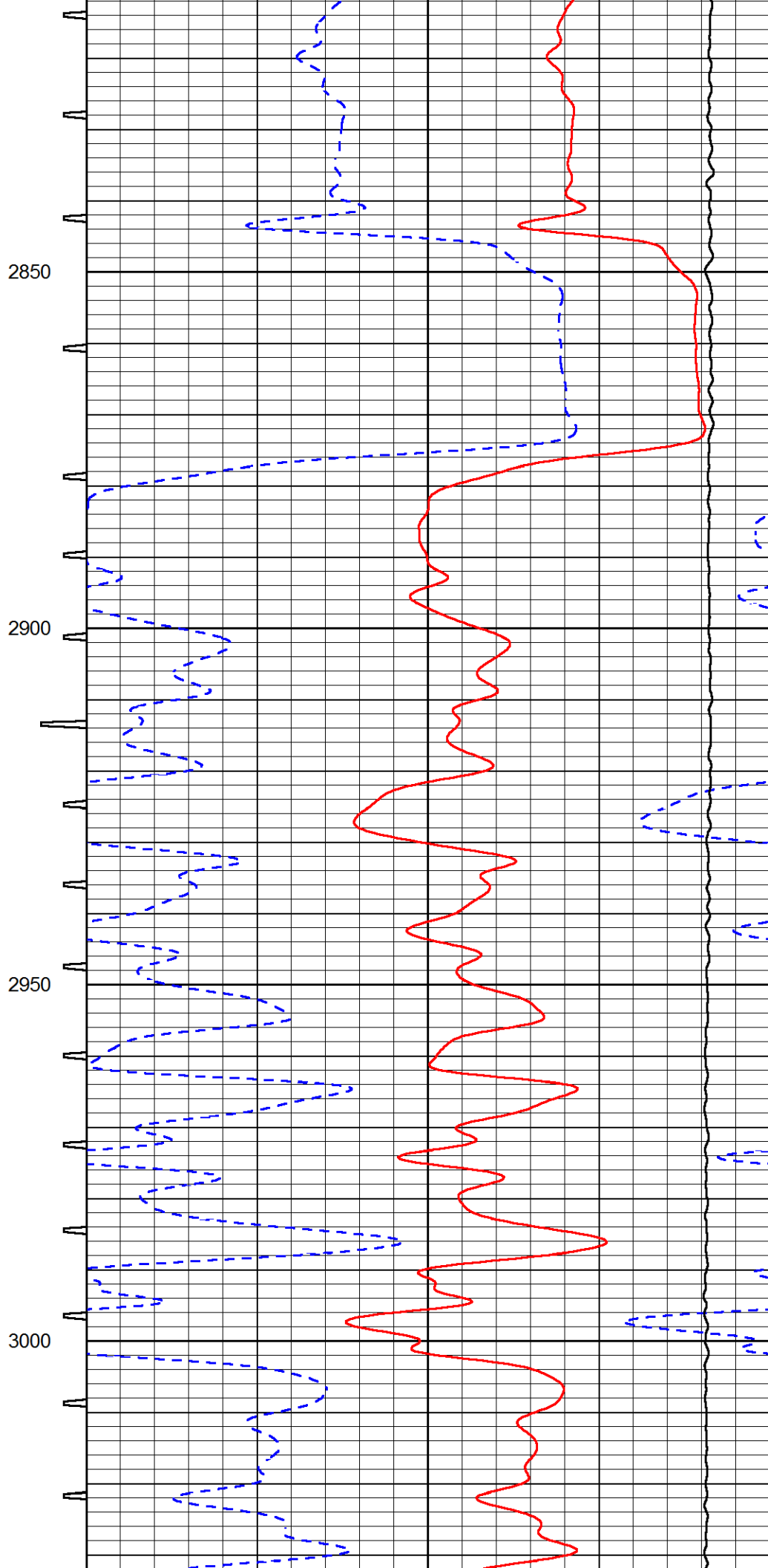
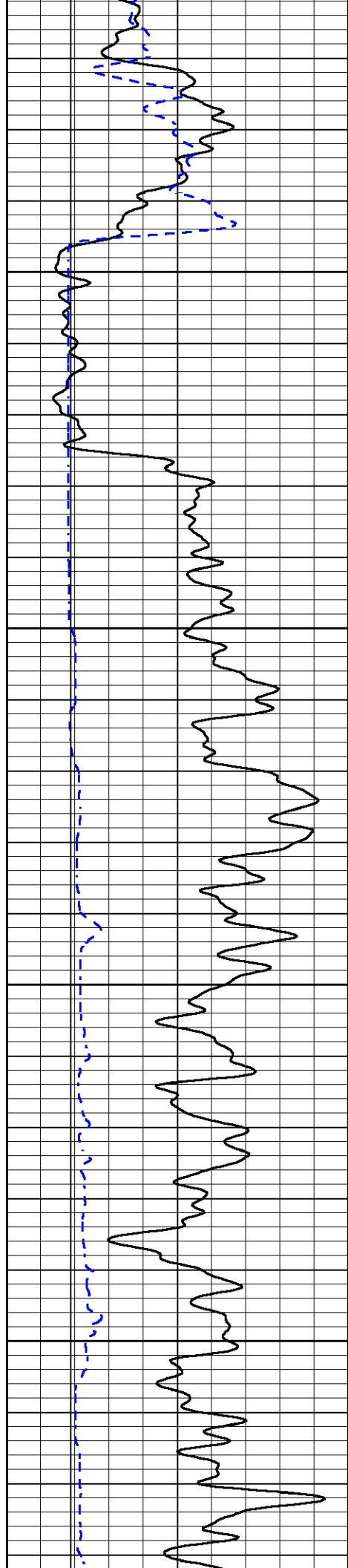


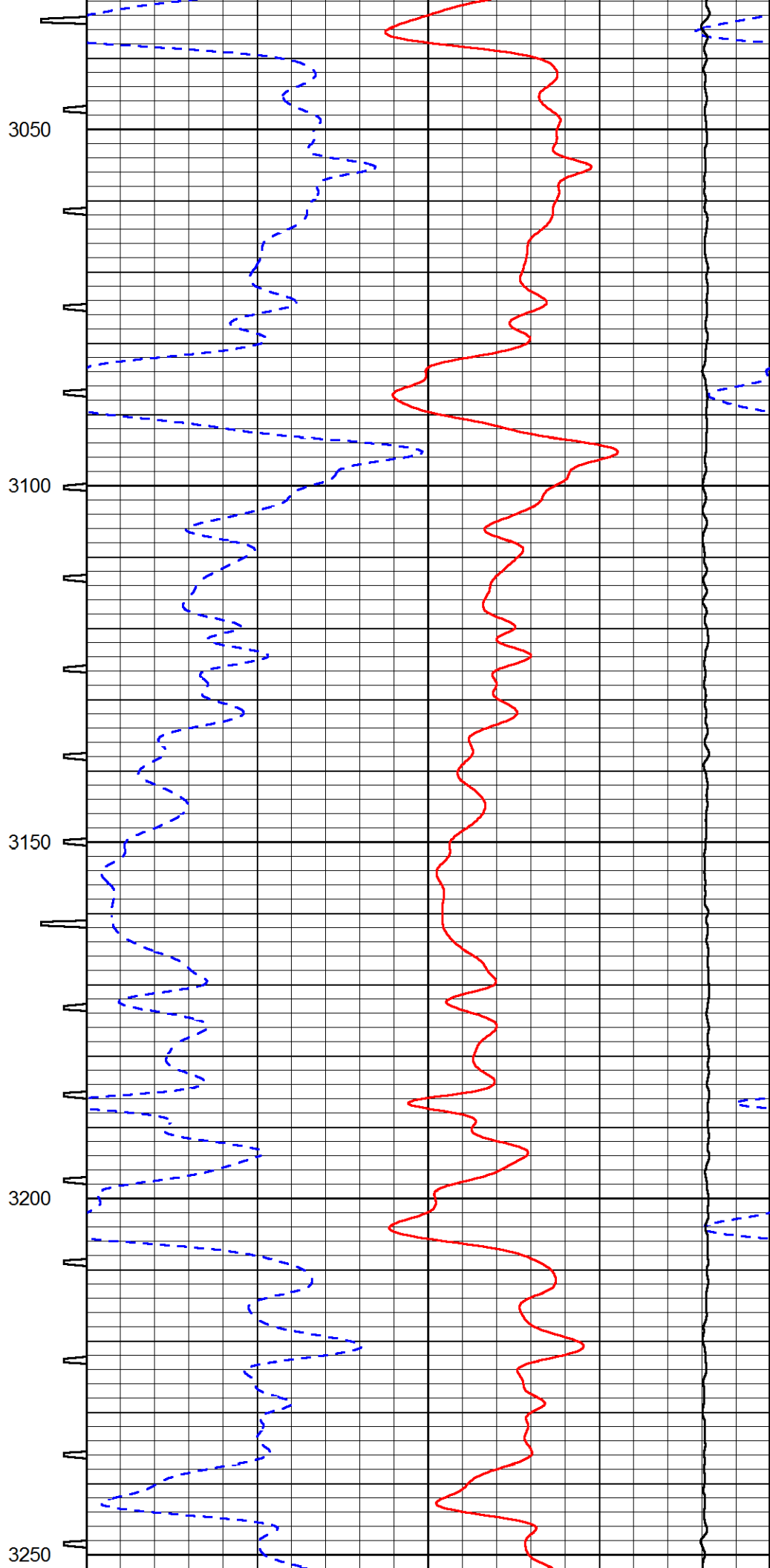
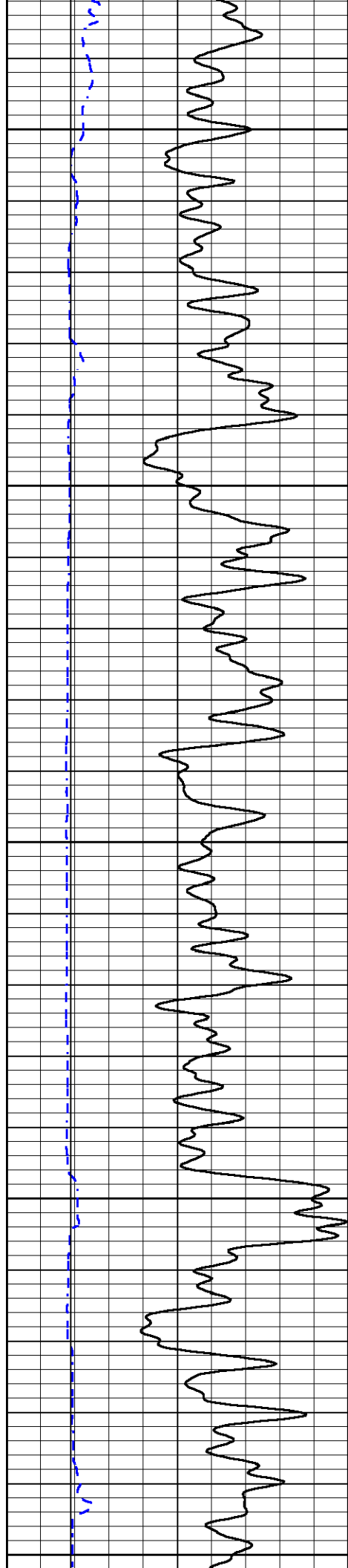


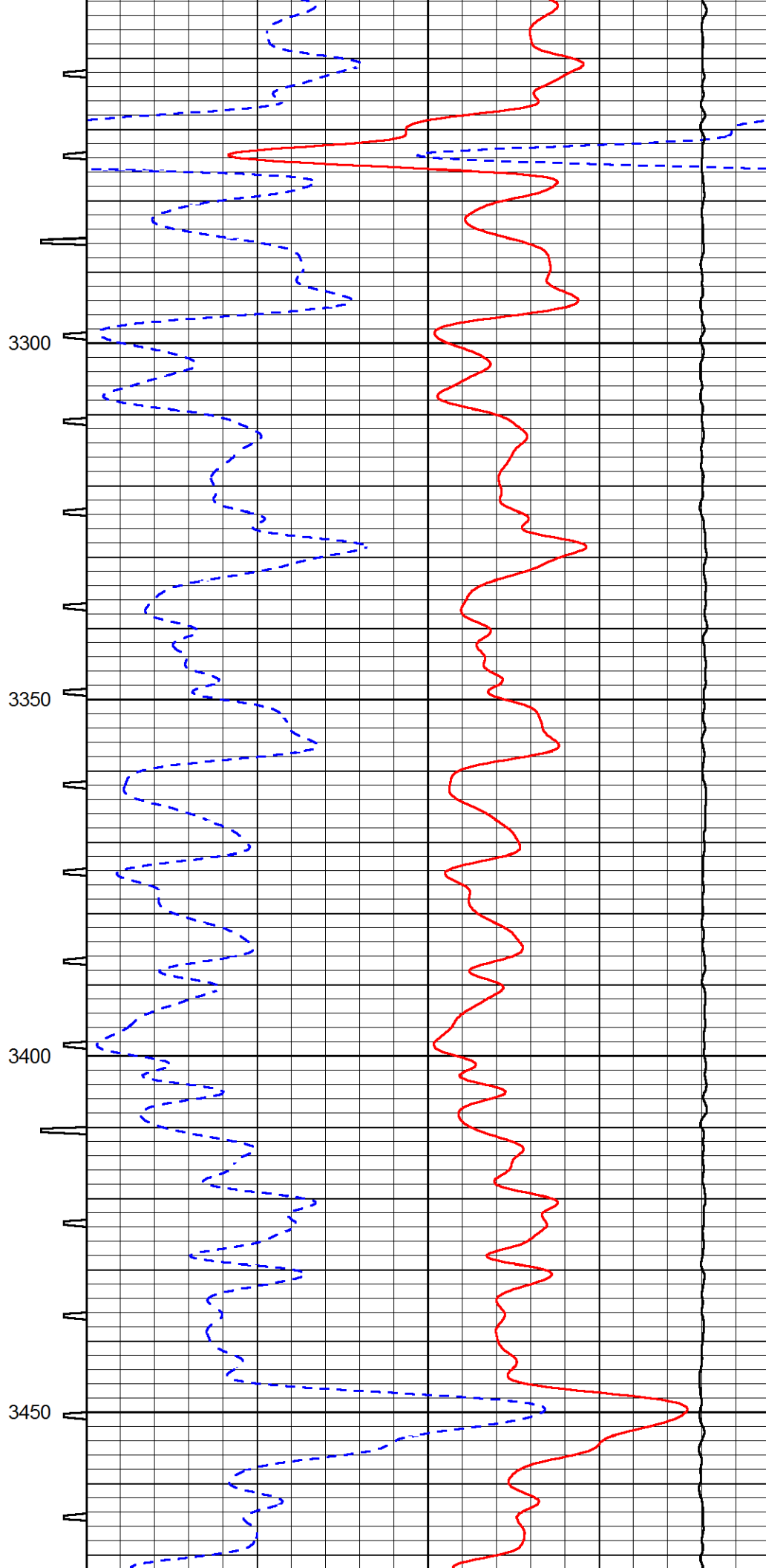
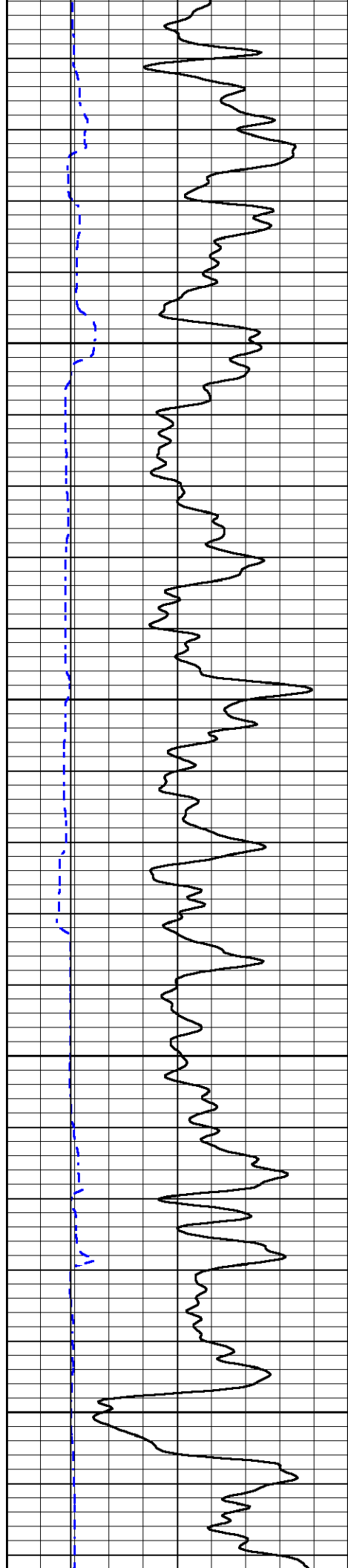


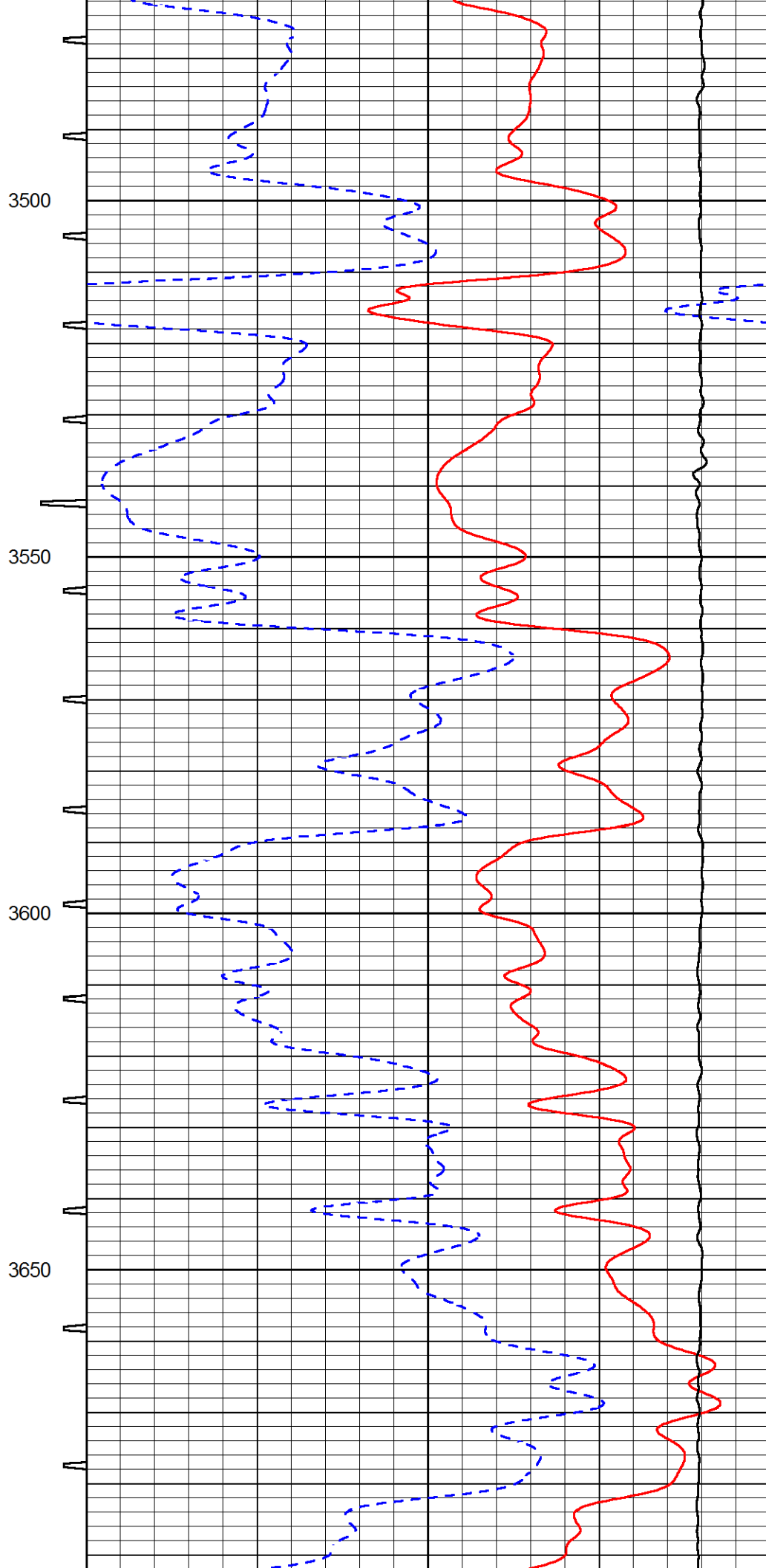
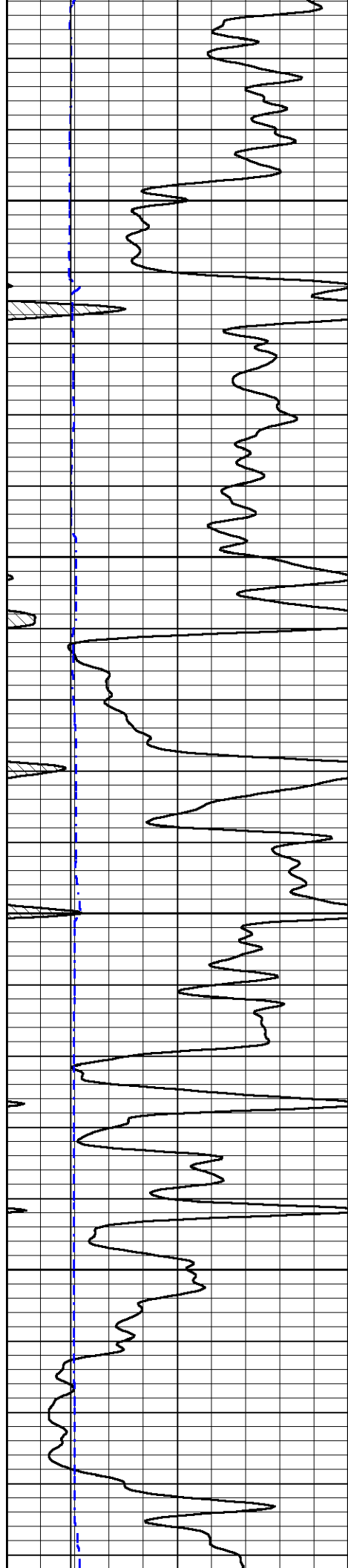


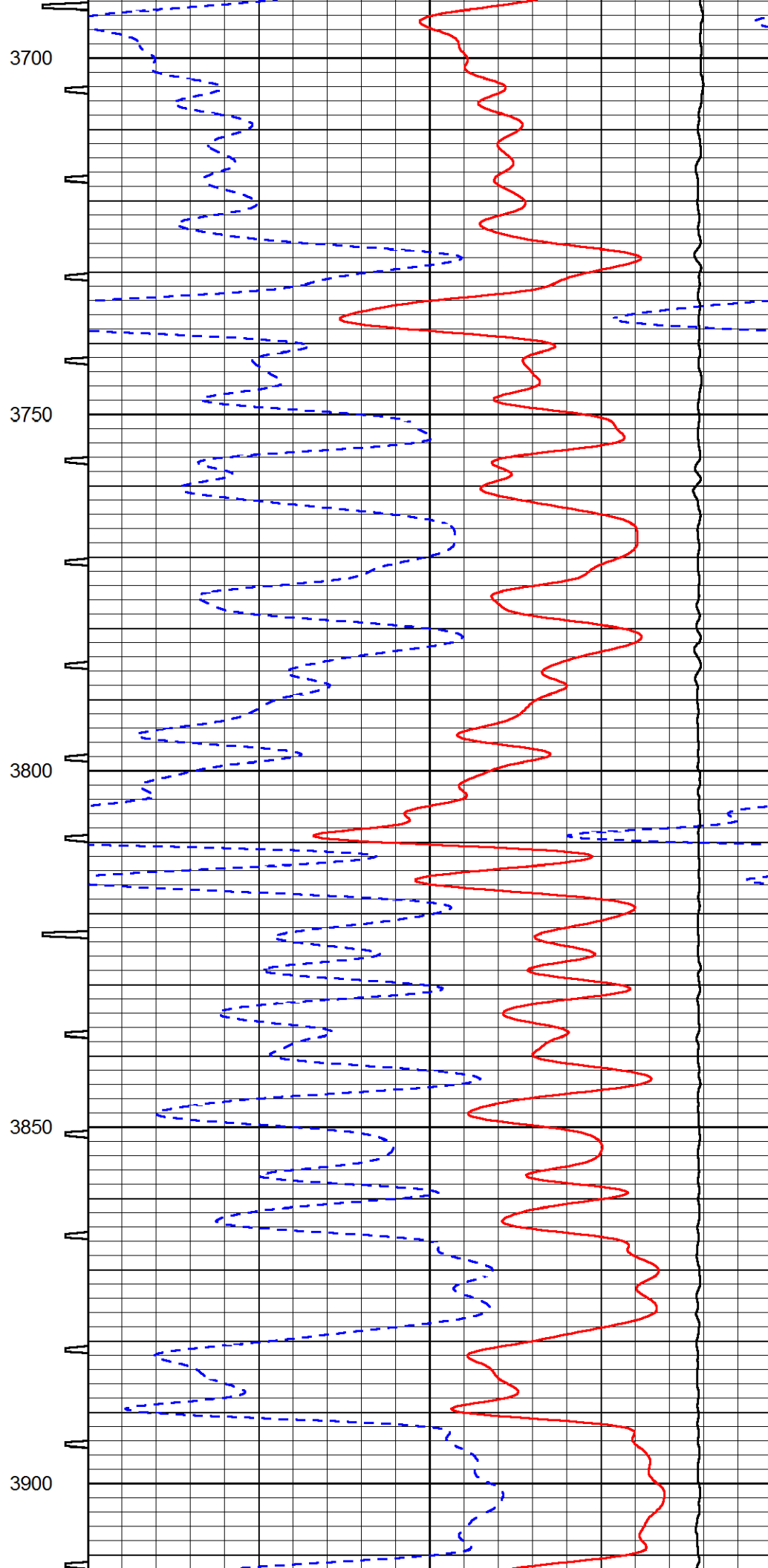
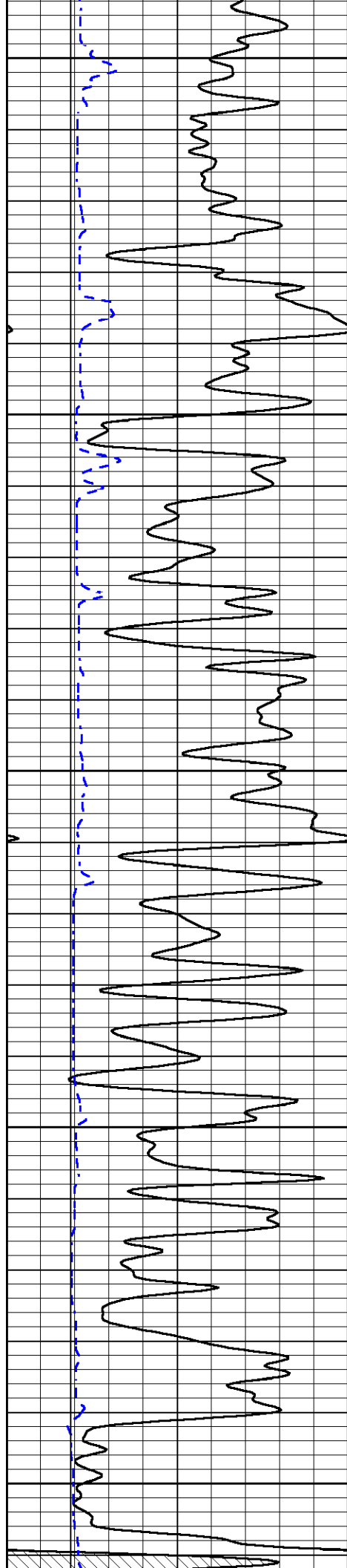


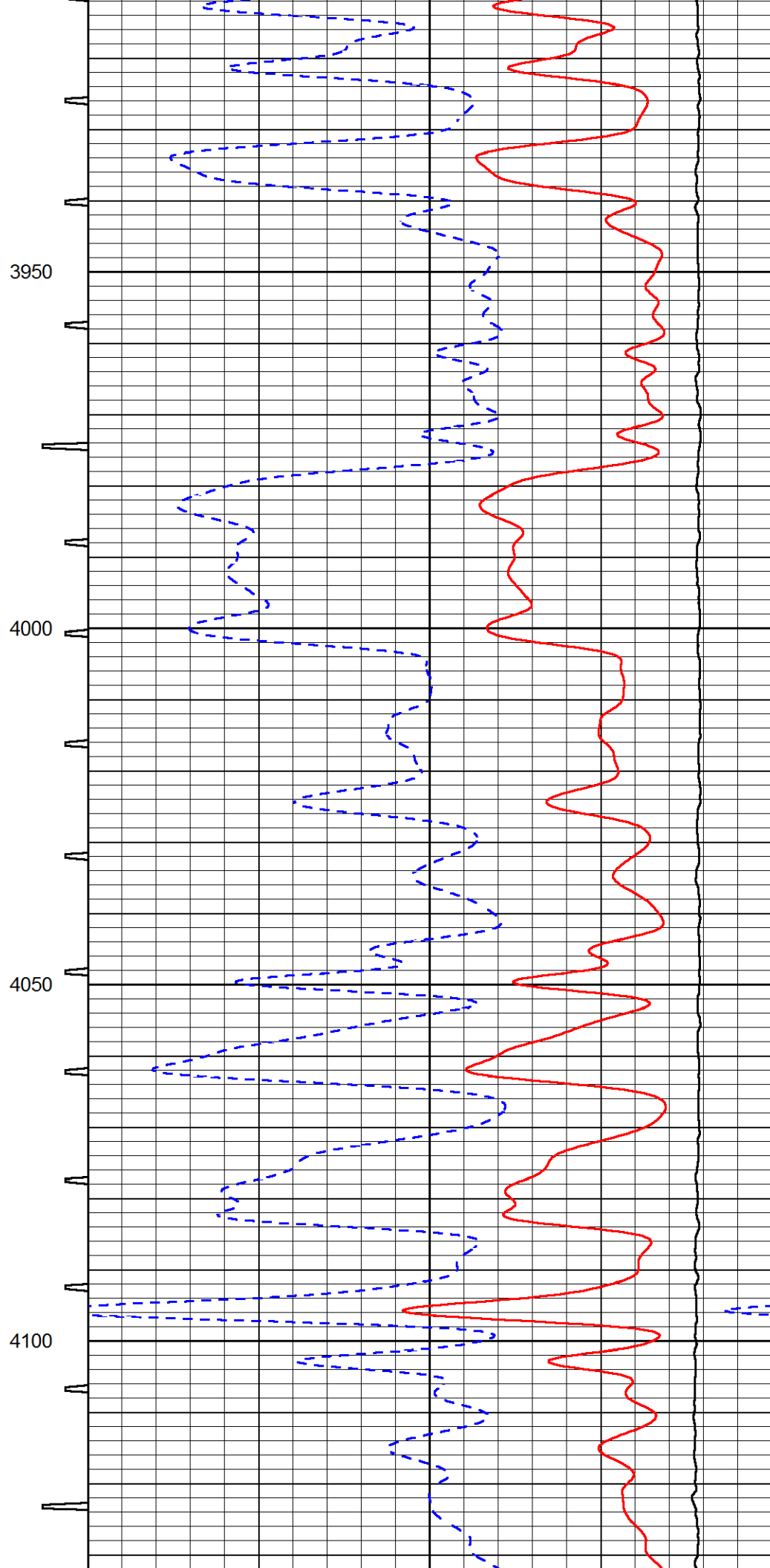
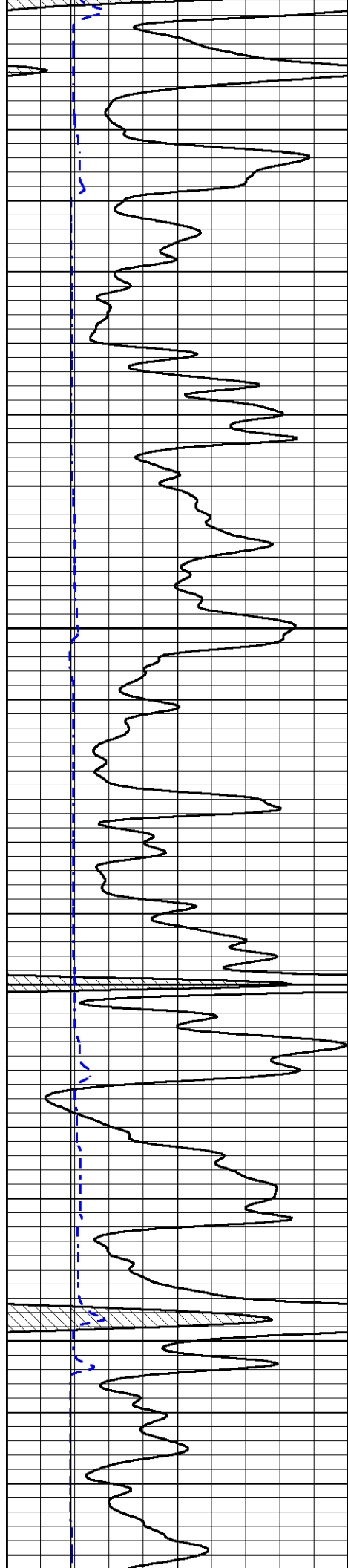


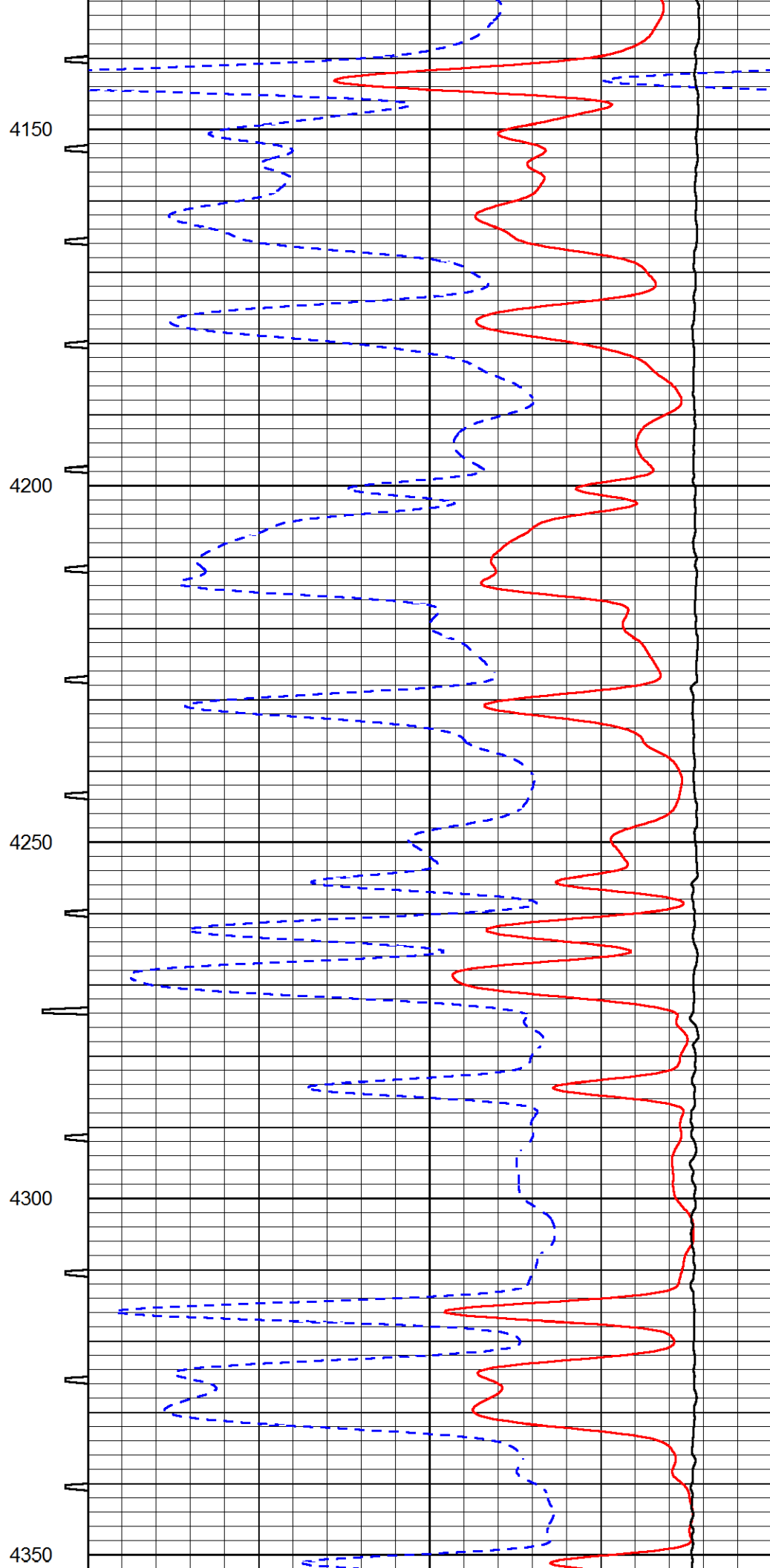
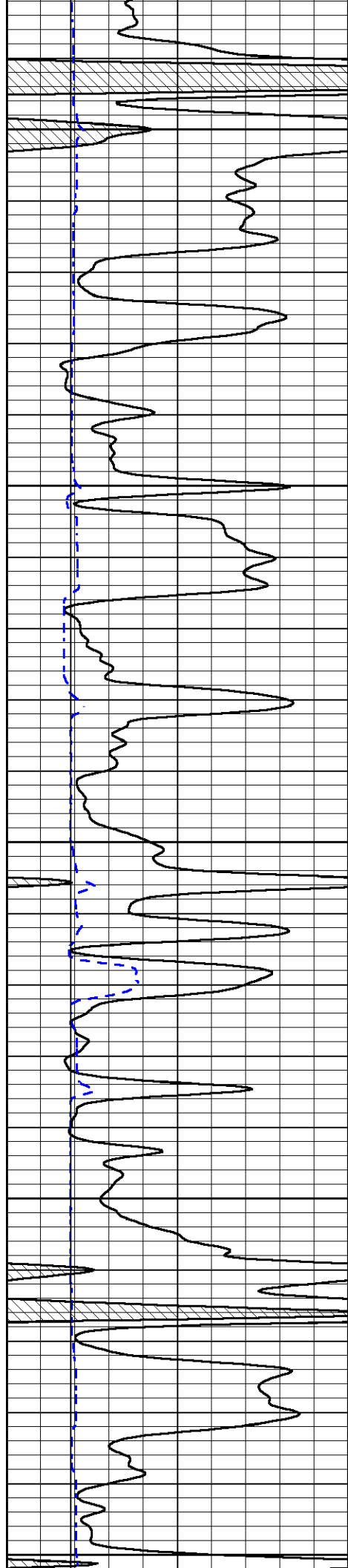


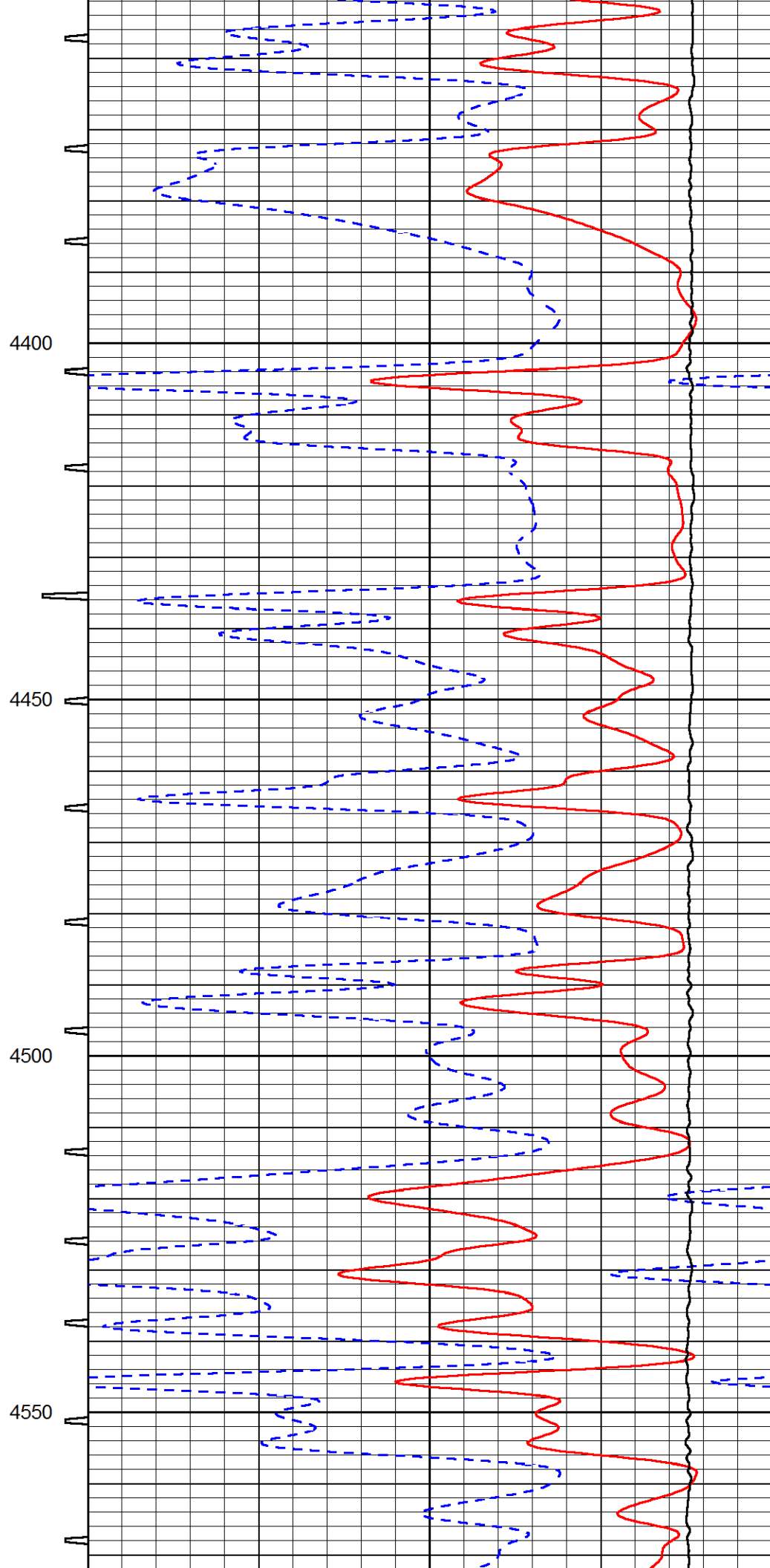
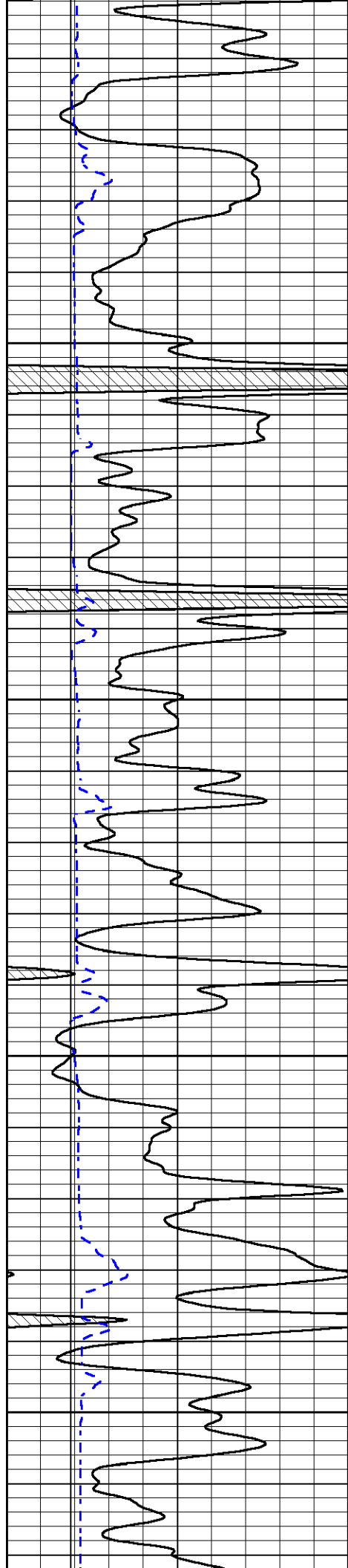


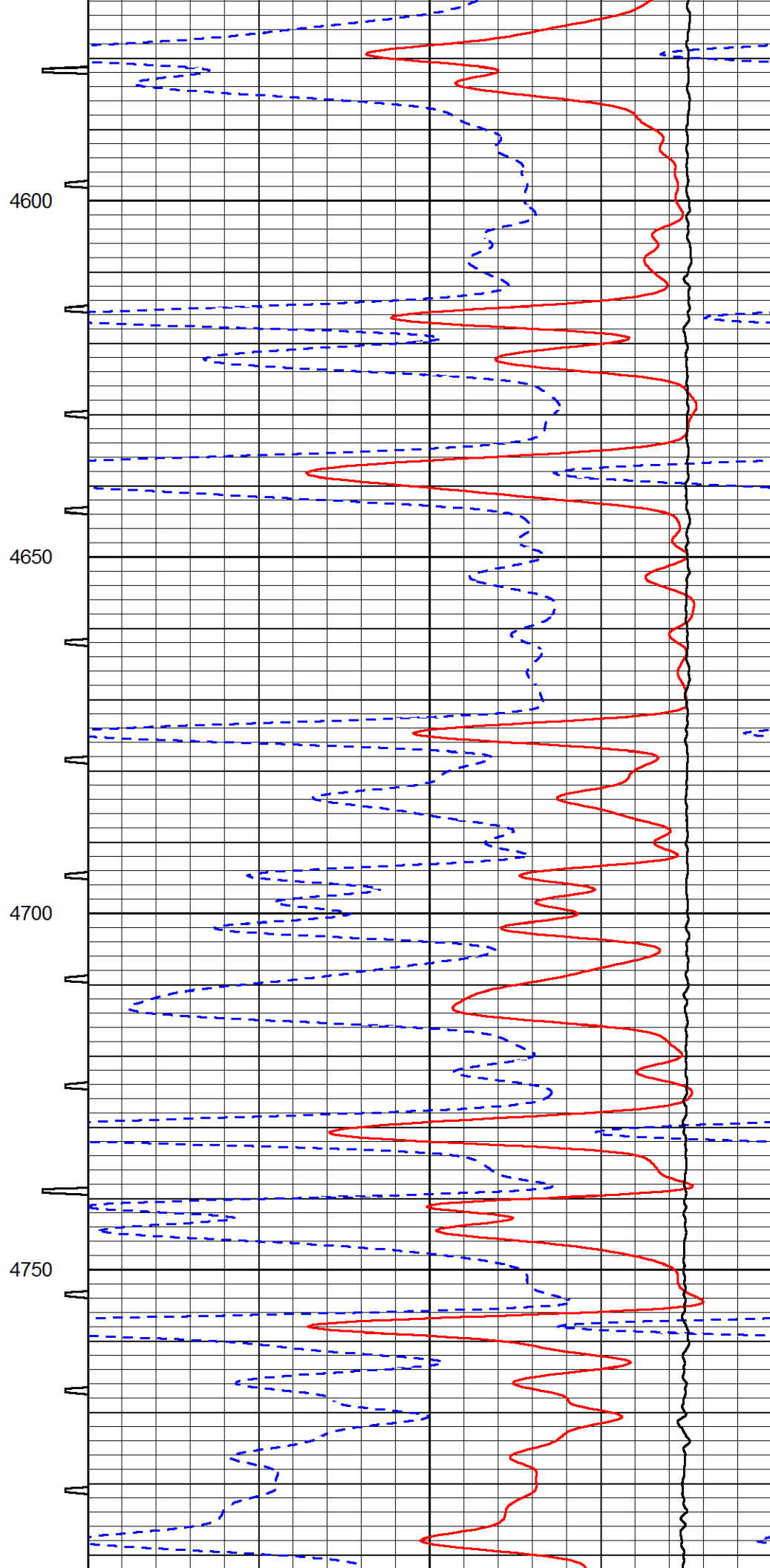
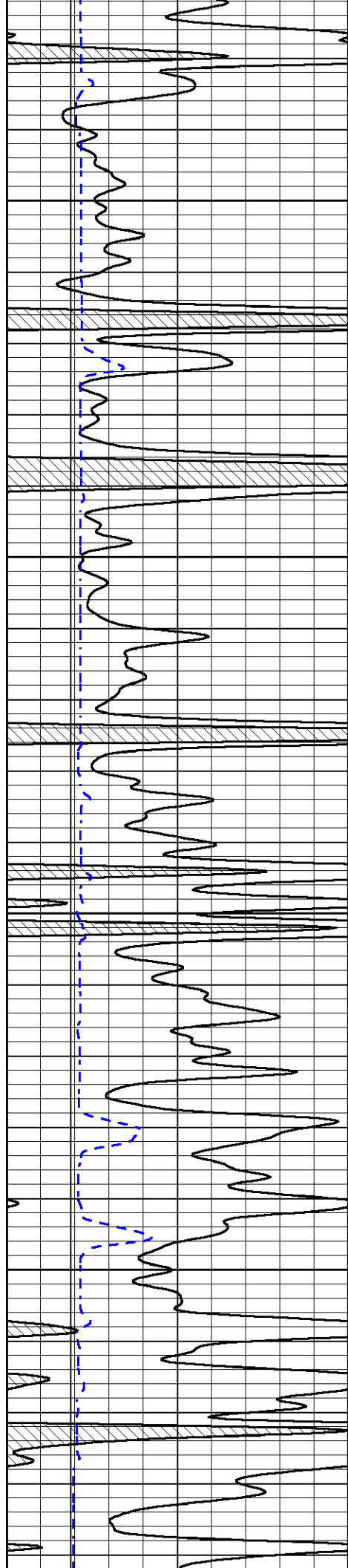


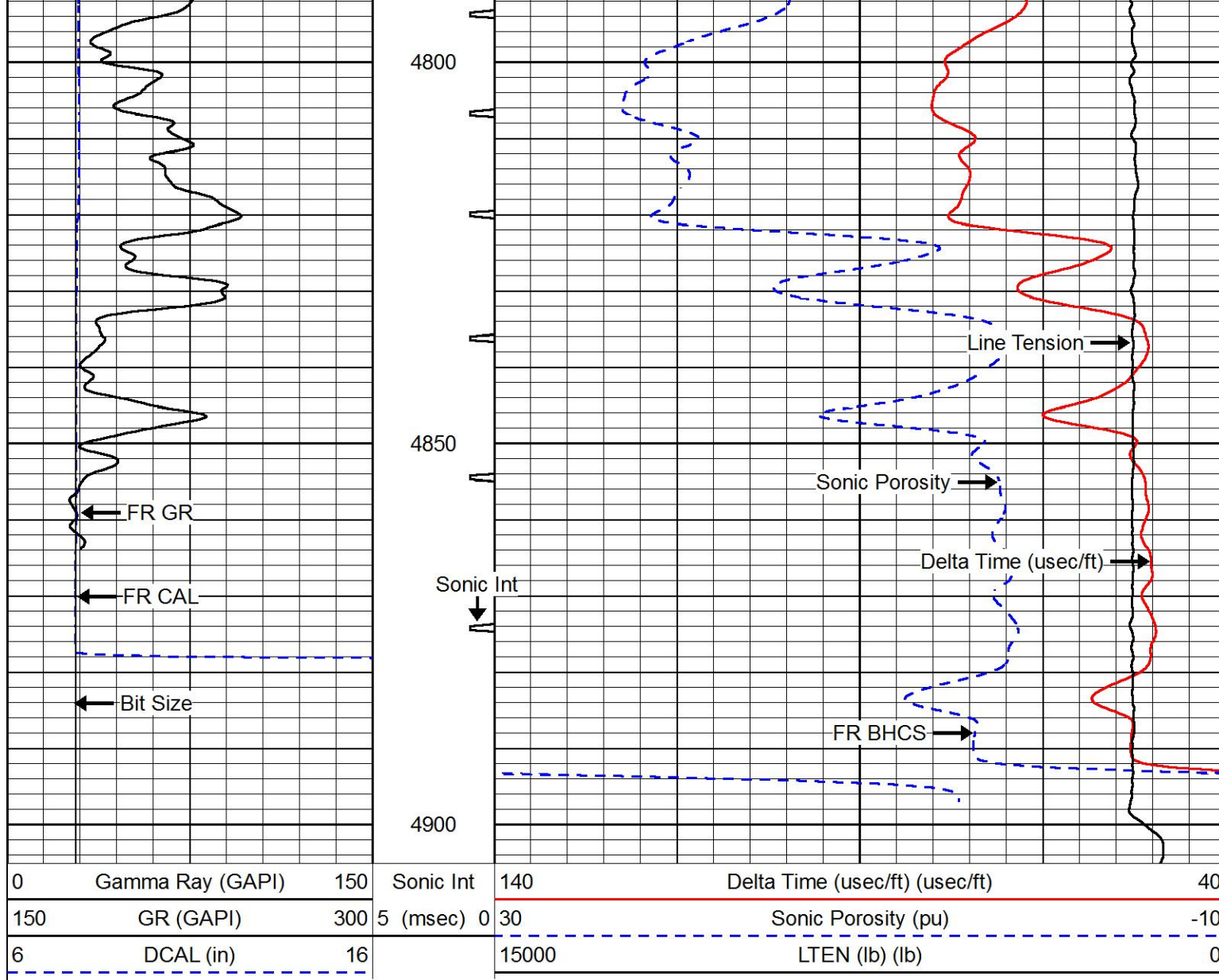














PIONEER
Pioneer Energy Services

REPEAT SECTION

Database File: funk_calliham trust_#1-18.db

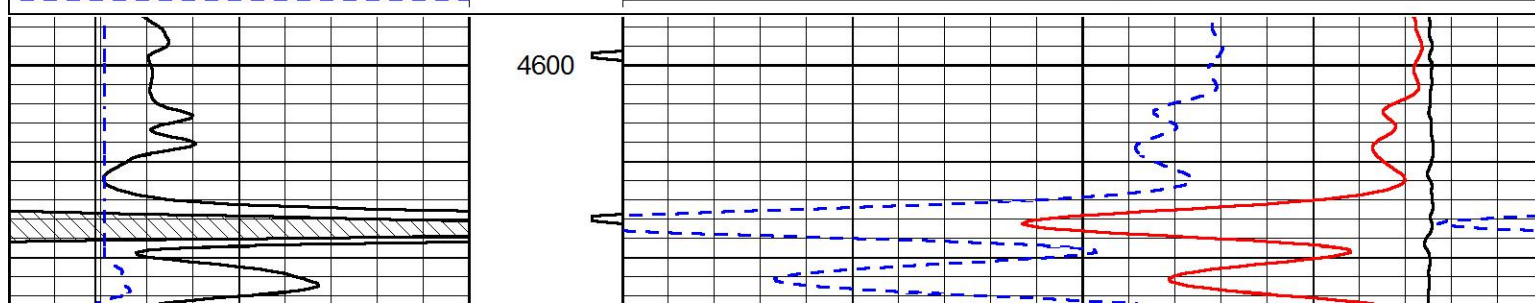
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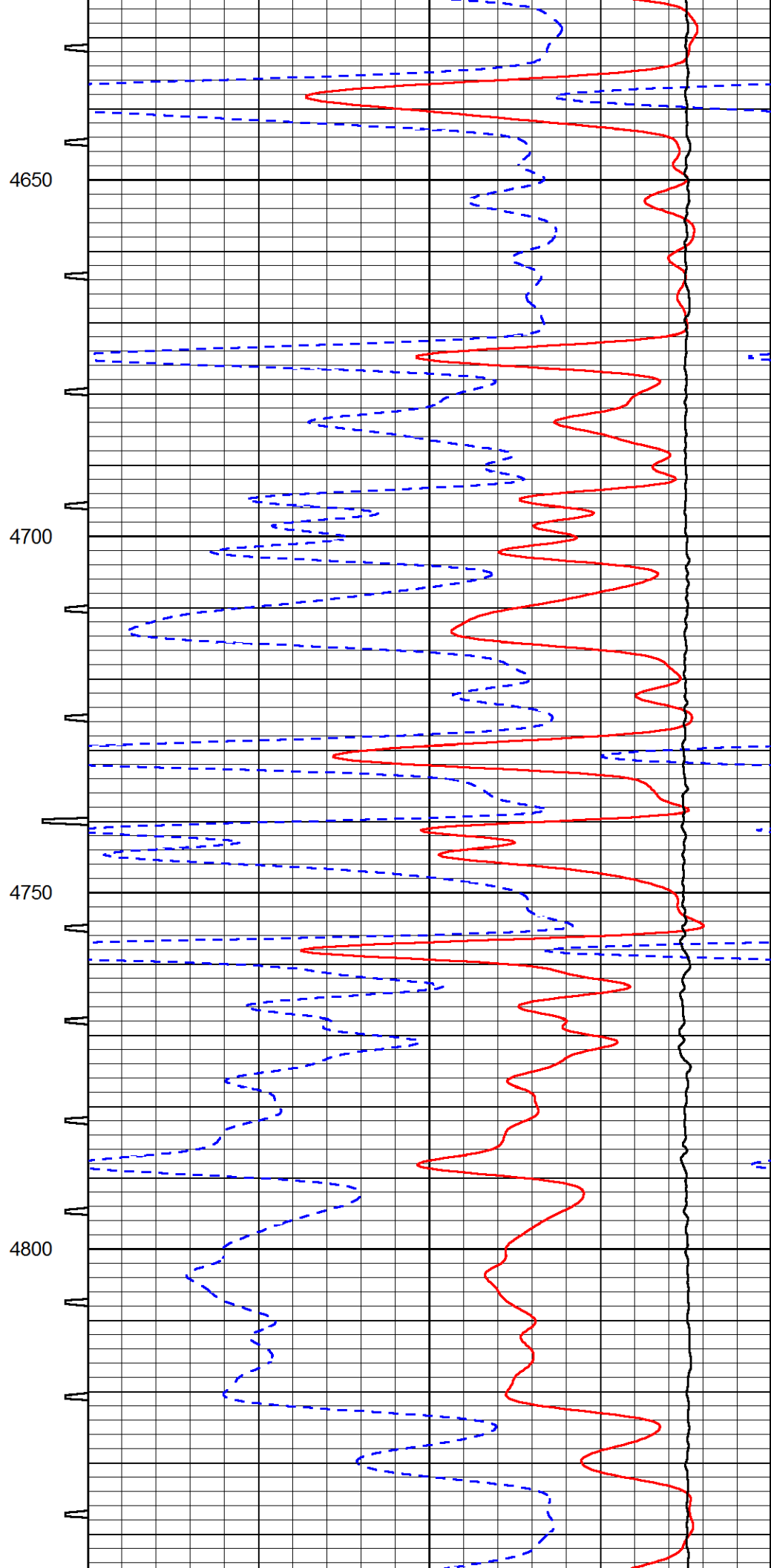
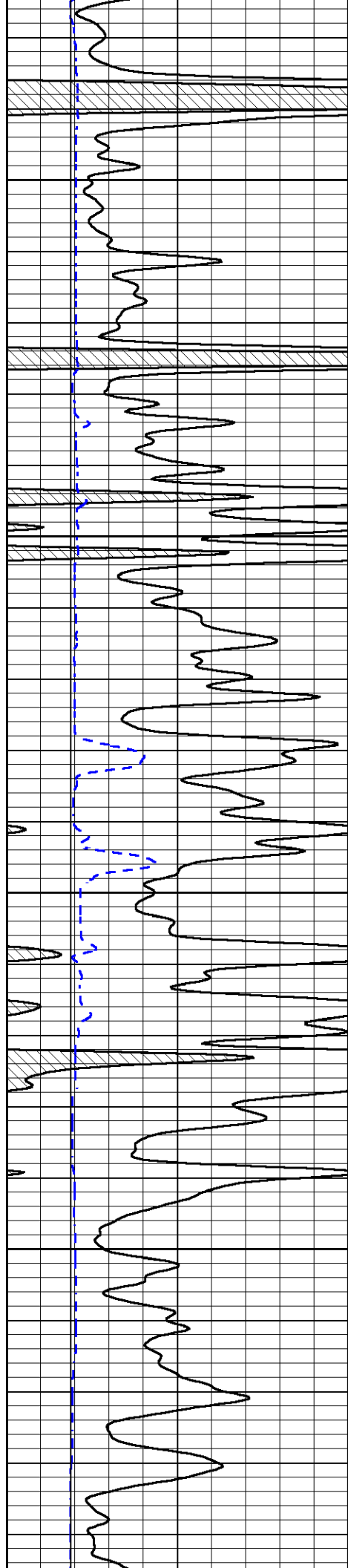
Presentation Format: sonic

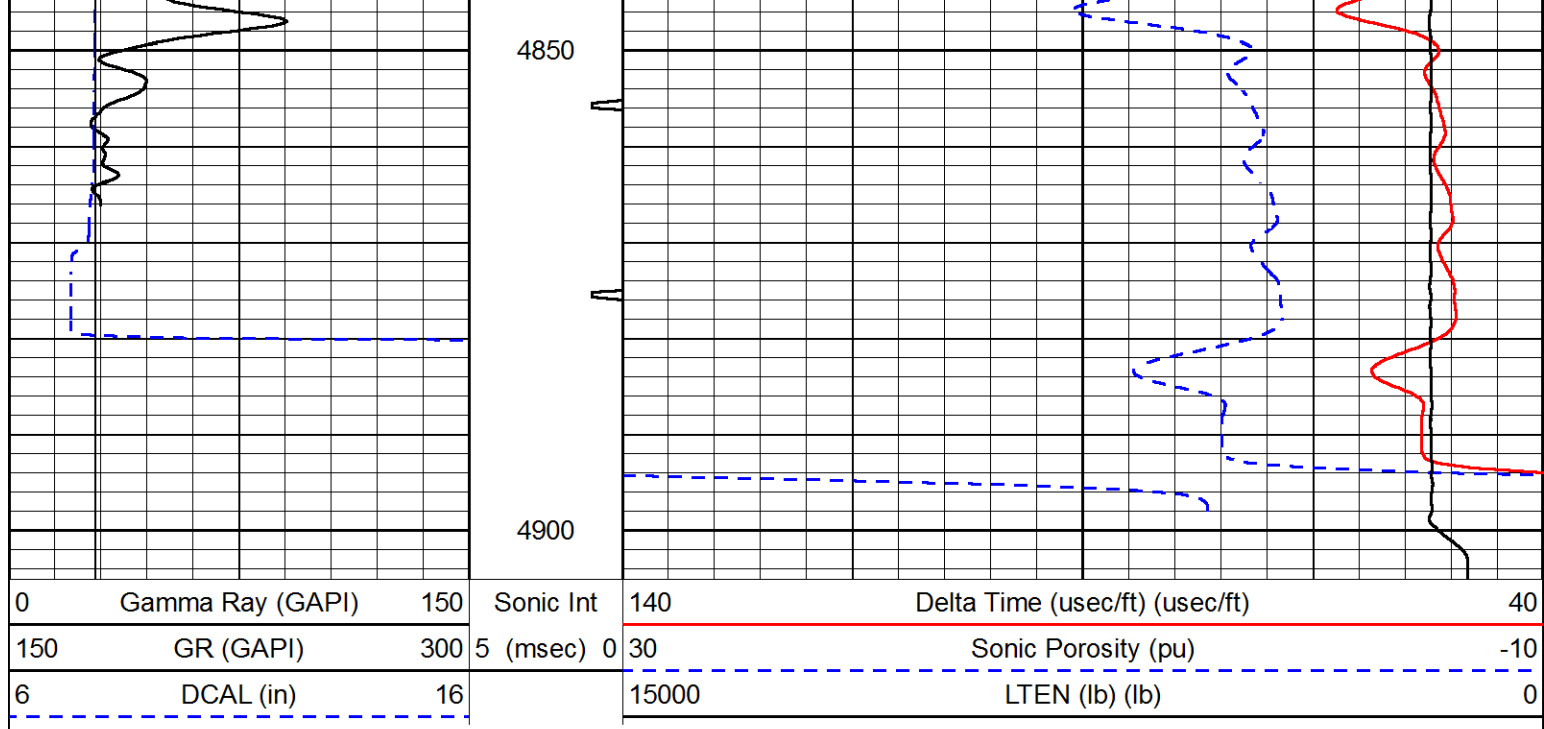
Dataset Creation: Sat Oct 15 14:35:25 2016

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 funk_calliham trust_#1-18.db
 Dataset Pathname stckml/pass4.1
 Dataset Creation Sat Oct 15 15:27:40 2016

Dual Induction Calibration Report

Serial-Model: PSI 13-M&W
 Calibration Performed: Thu Oct 06 06:17:37 2016

Readings			References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.450	-29.500
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.370	-25.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Thu Sep 29 18:47:00 2016

Readings			References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	25000.0000	-0.6000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	29500.0000	-0.5000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.6000

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Thu Sep 29 18:47:07 2016

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		5174.18	6425.27	cps
Aluminum	2.665	g/cc		963.17	4037.42	cps
Spine Angle = 74.55			Density/Spine Ratio = 0.522			
	Size			Reading		
Small Ring	6.00	in		1.83		
Large Ring	16.00	in		1.48		

Compensated Neutron Calibration Report
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Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	Wed Sep 28 10:30:30 2016

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:	Thu Sep 29 18:47:18 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

	Company	FUNK PETROLEUM LLC
	Well	CALLIHAM TRUST #1-18
	Field	WILDCAT
	County	THOMAS
	State	KANSAS