



PIONEER

Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company MURFIN DILLING CO., INC.

Well PLUMMER #1-25

Field DIETTERICH

County STANTON State KANSAS

Location: API #: 15-187-21341-00-00

2100' FSL & 1925' FEL

Other Services
CNL/CDL
DIL/MEL

SEC 25 TWP 28S RGE 41W

Permanent Datum GROUND LEVEL Elevation 3332'

Log Measured From KELLY BUSHING

Elevation
K.B. 3343'
D.F. N/A
G.L. 3332'

Drilling Measured From KELLY BUSHING

Date 10/2/2018

Run Number TWO

Type Log BHCS

Depth Driller 5795'

Depth Logger 5795'

Bottom Logged Interval 5783'

Top Logged Interval 1750'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 675

Density 9.4

Level FULL

Max. Rec. Temp. F 134

Operating Rig Time 5 HOURS

Equipment -- Location 91 HAYS

Recorded By IAN MABB

Witnessed By KEITH REAVIS

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	1777'	8.625"	23#	0'	1777'
TWO	7.875"	1777'	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.

JOHNSON CITY, KS.

BY THE CENEX TAKE THE FRONTAGE RD. ON THE NORTH SIDE,
AND NORTH INTO ON THE WEST SIDE OF
WESTERN SHELTER INS.

Log Measured From: KELLY BUSHING

11 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneerenergy.com

785-625-3858

Your Pioneer Energy Services Crew

Engineer: IAN MABB

Operator:

Operator:

Operator:

This Log Record Was Witnessed By

Primary Witness: KEITH REAVIS

Secondary Witness:

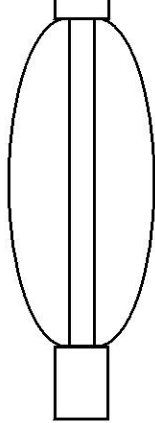
Secondary Witness:

Secondary Witness:

Top - Bottom

COMPACT 1	SVFLUID usec/ft 189	SVMATRIX usec/ft 47.6	M 2	A 1	SZCOR Off	NPORSEL Limestone	FLUIDDEN g/cc 1
MATRXDEN g/cc 2.71	SPSHIFT mV 0	SNDERRM mmho/m 3	SNDERR mmho/m 7	SRFTEMP degF 0	CASETHCK in 0	CASEOD in 5.5	PERFS 0
TDEPTH ft 0	BOTTEMP degF 100	BOREID in 7.875					

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
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

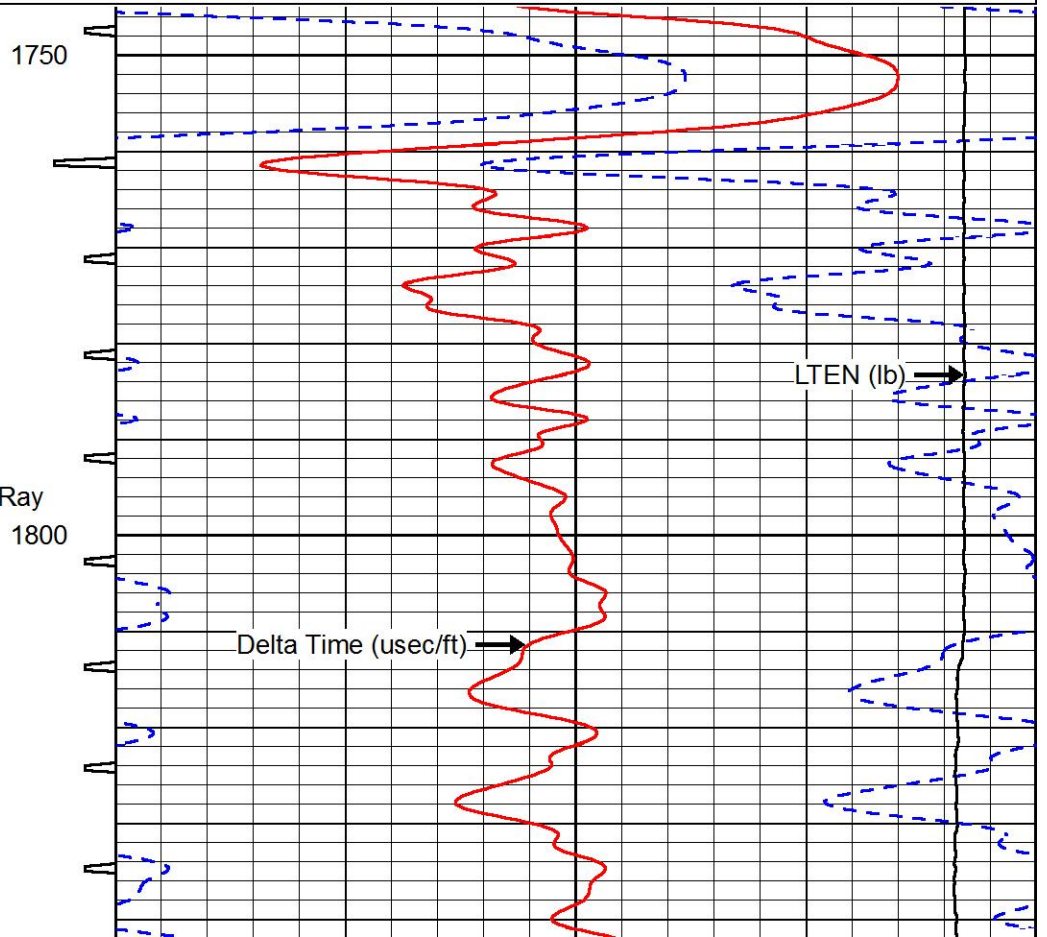
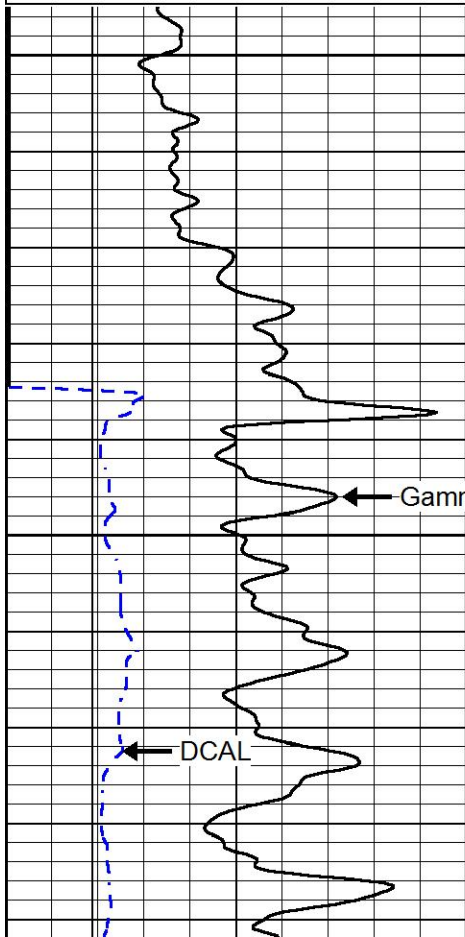
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Total length: 21.50 ft
Total weight: 370.00 lb
O.D.: 3.50 in

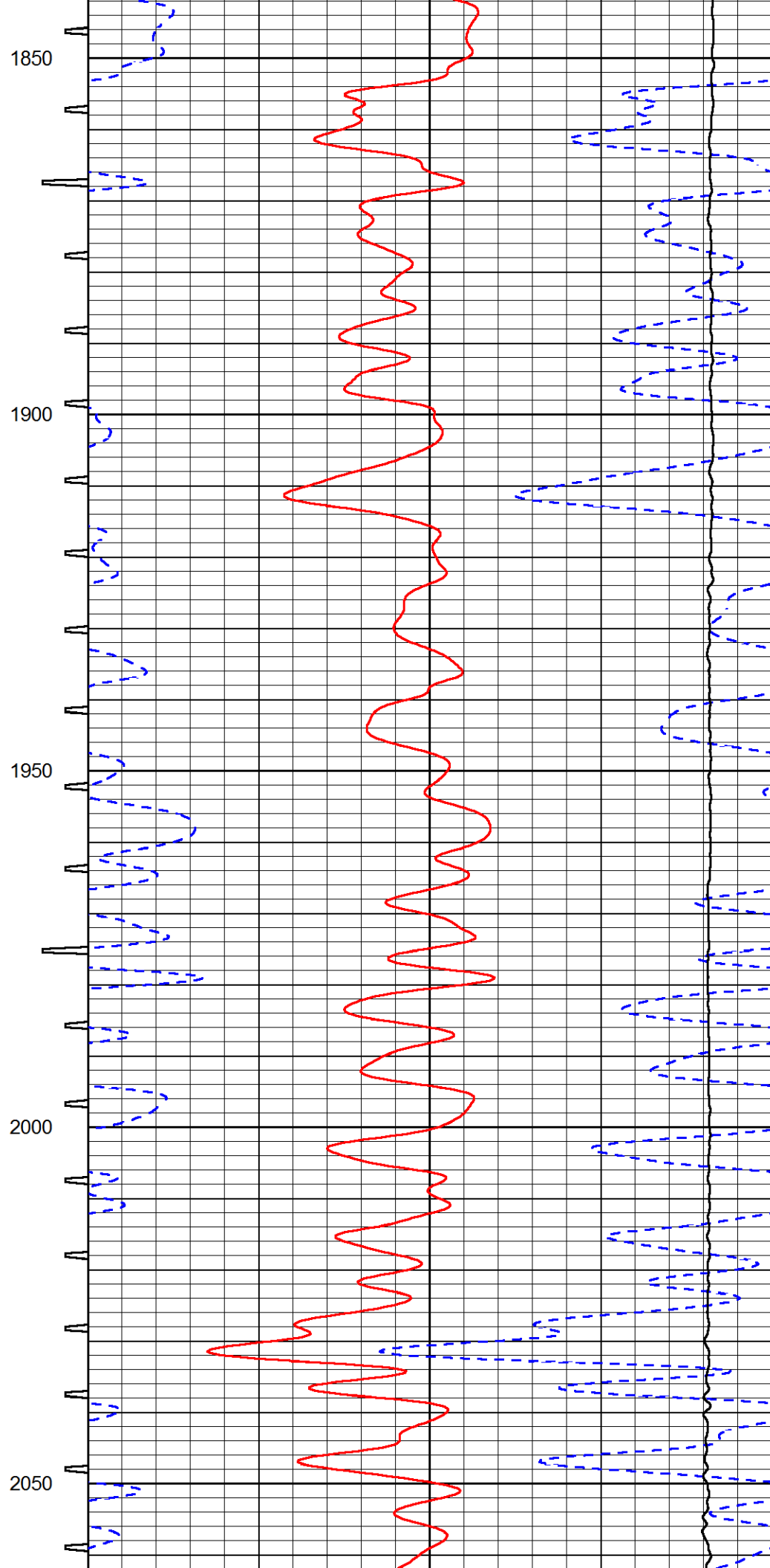
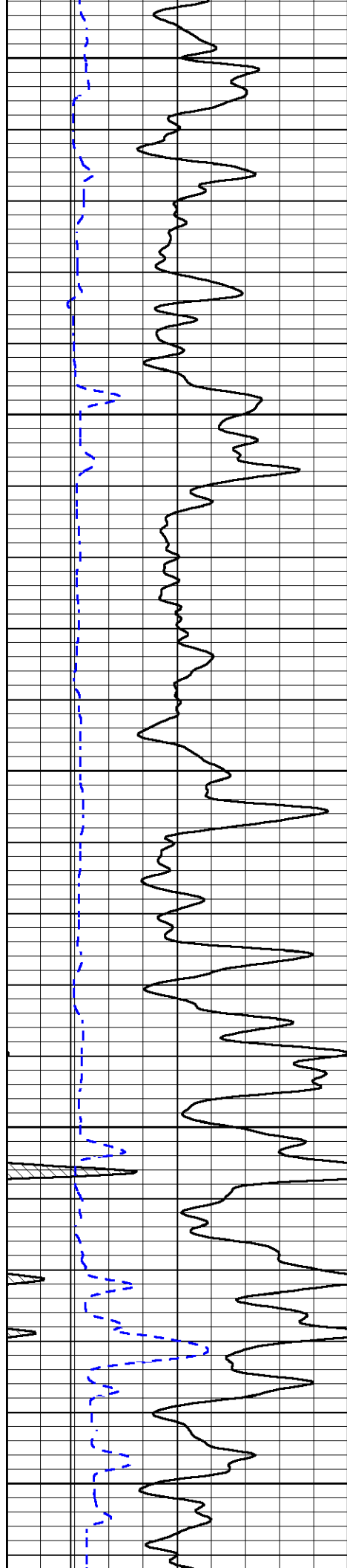


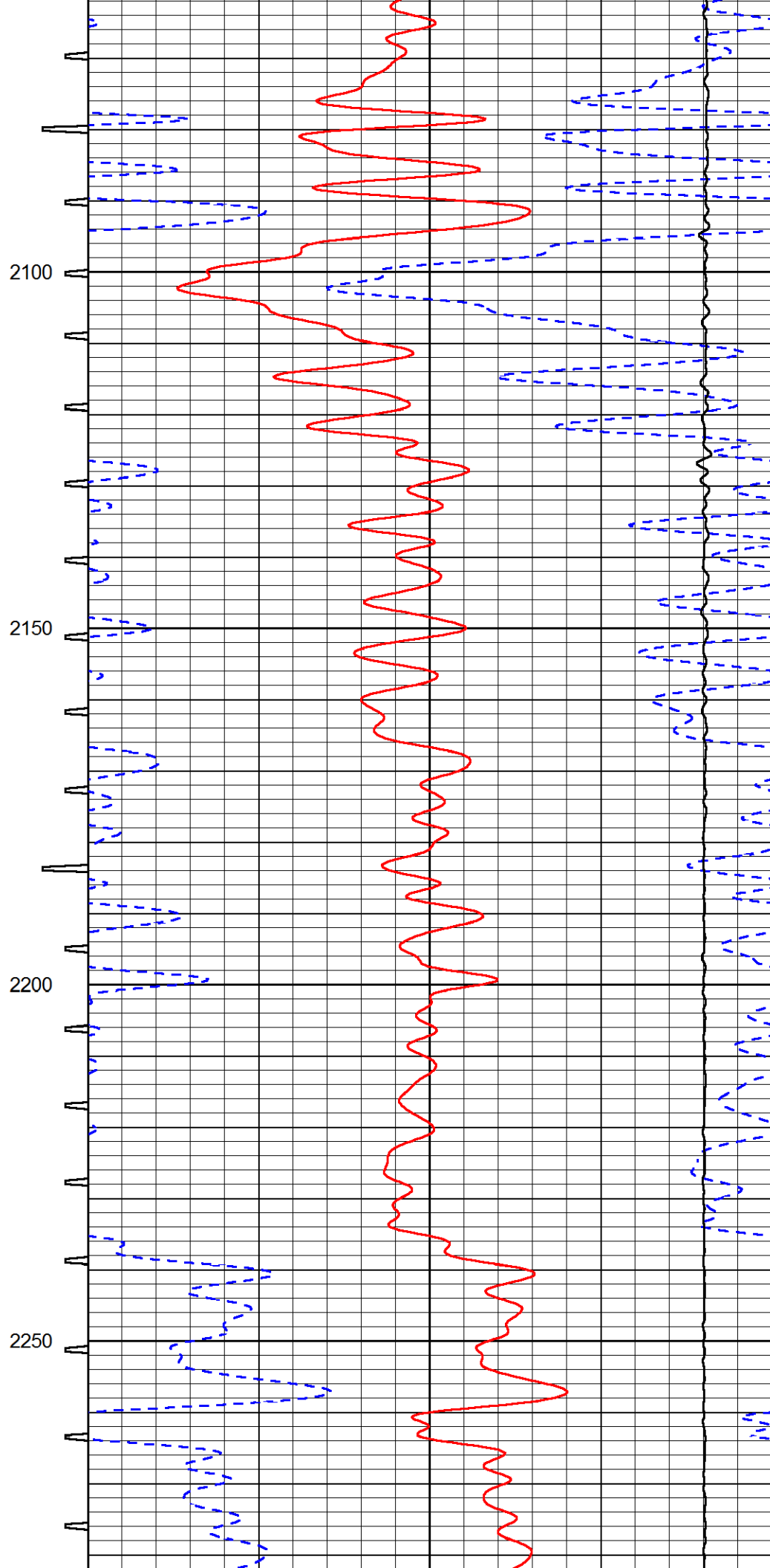
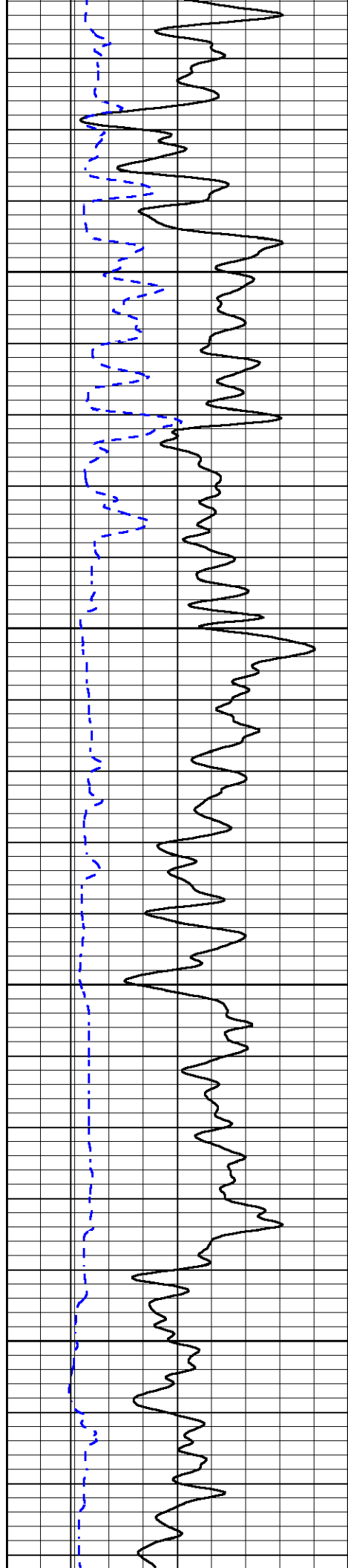
MAIN PASS

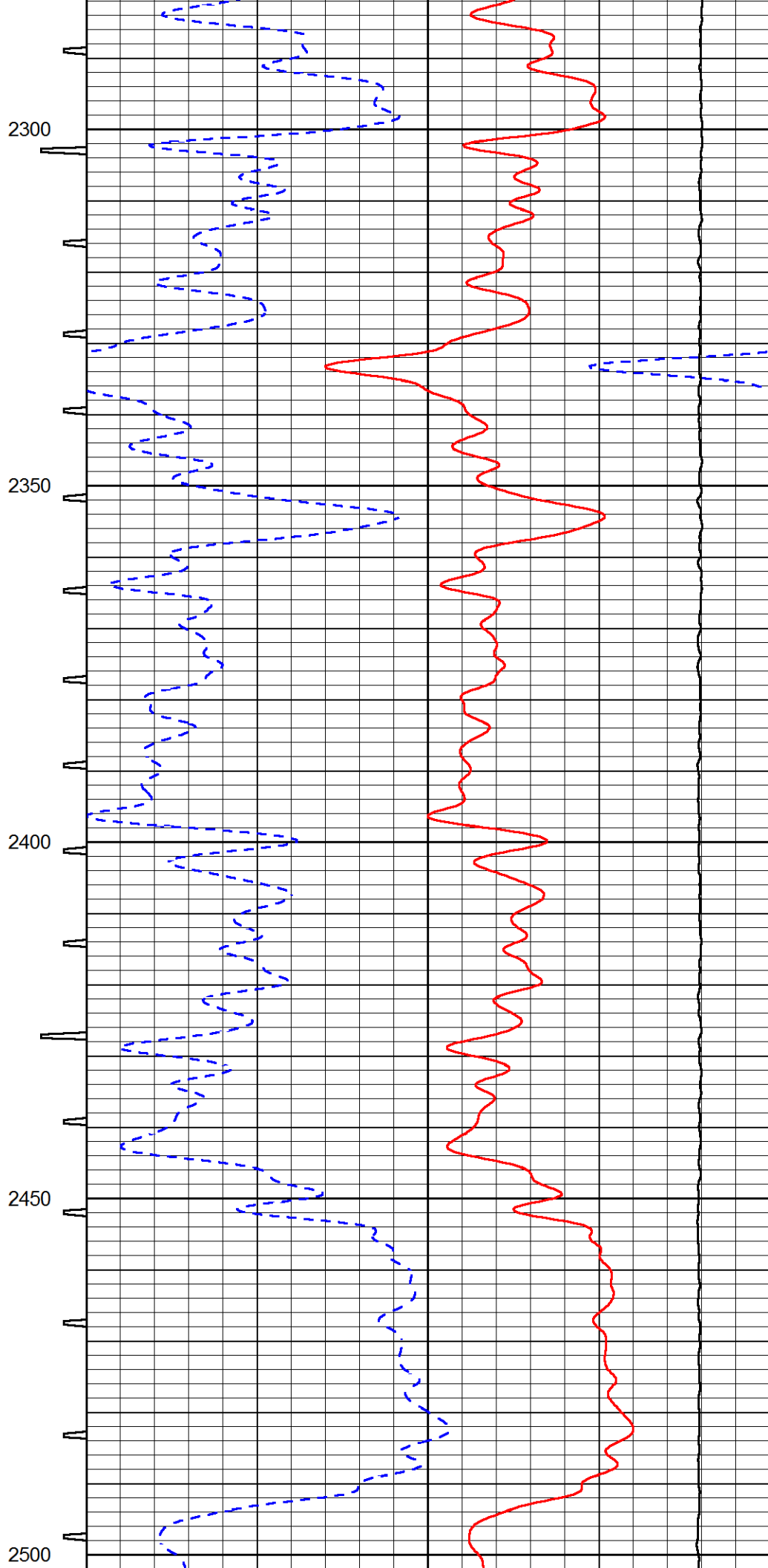
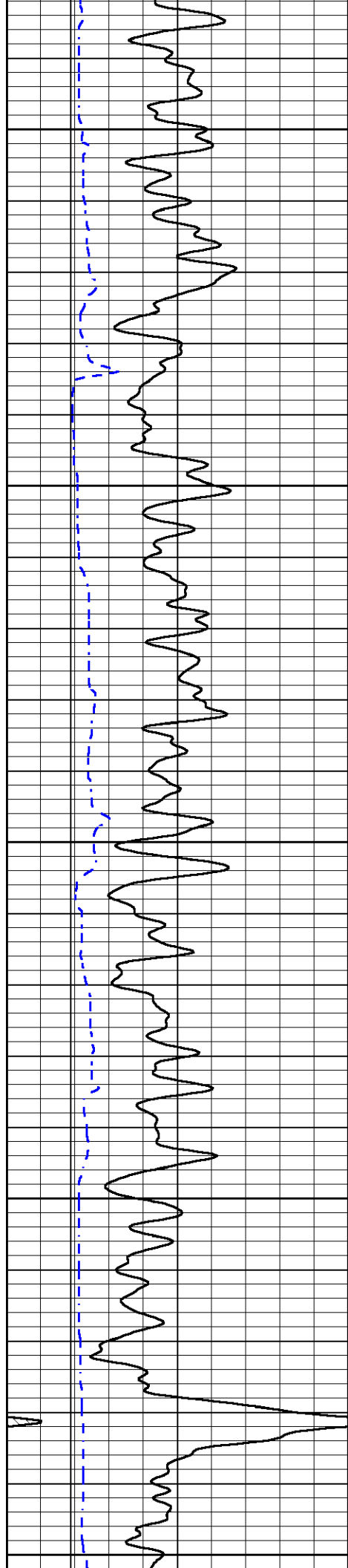
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Dataset Pathname stackmel/pass4.1
Presentation Format sonic
Dataset Creation Tue Oct 02 14:40:18 2018
Charted by Depth in Feet scaled 1:240

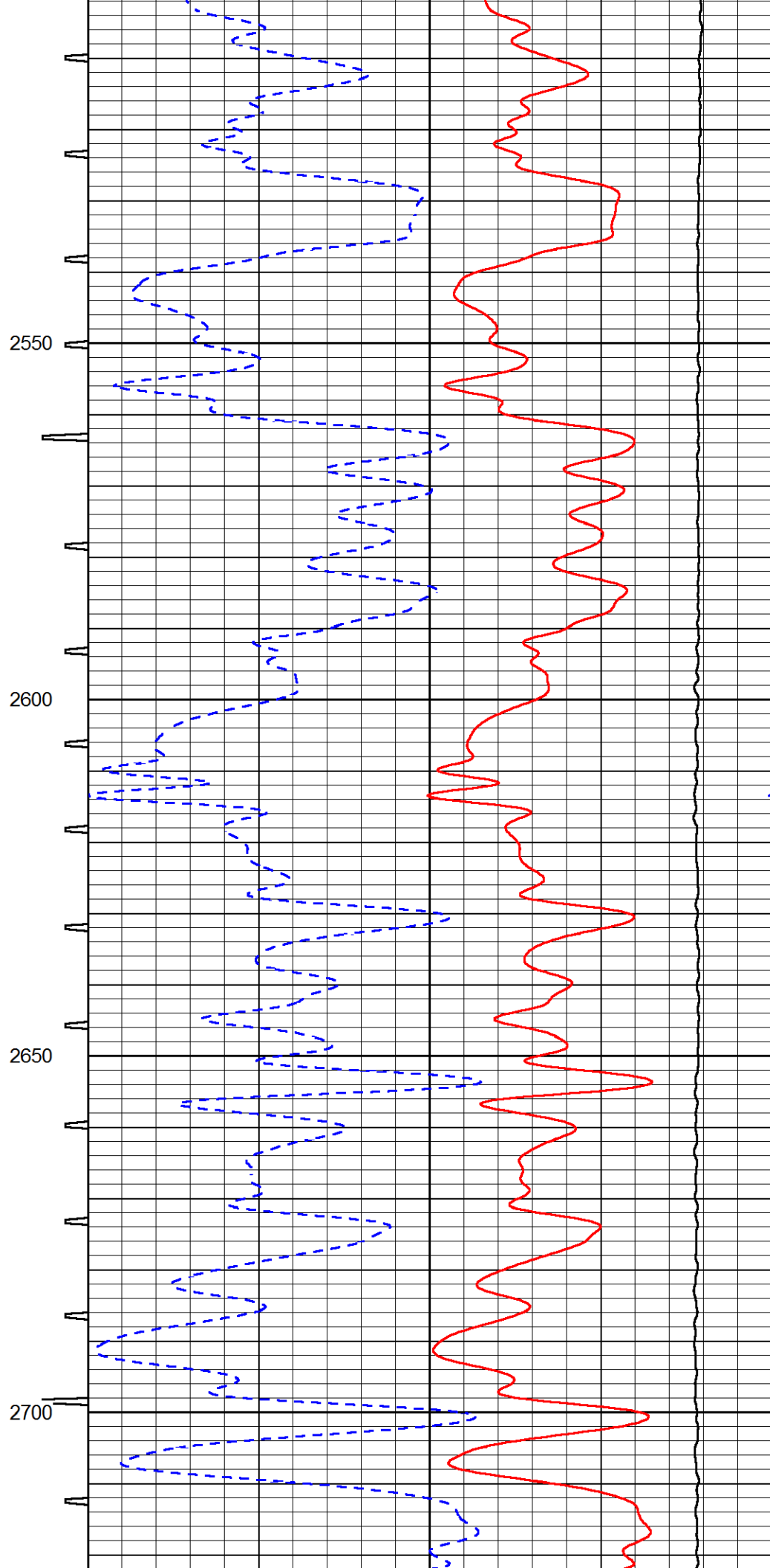
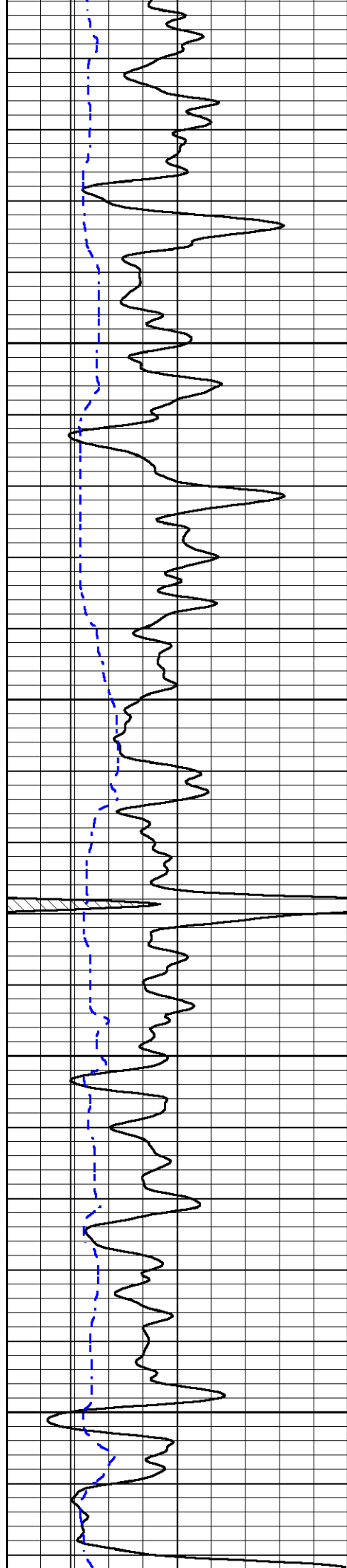
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150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

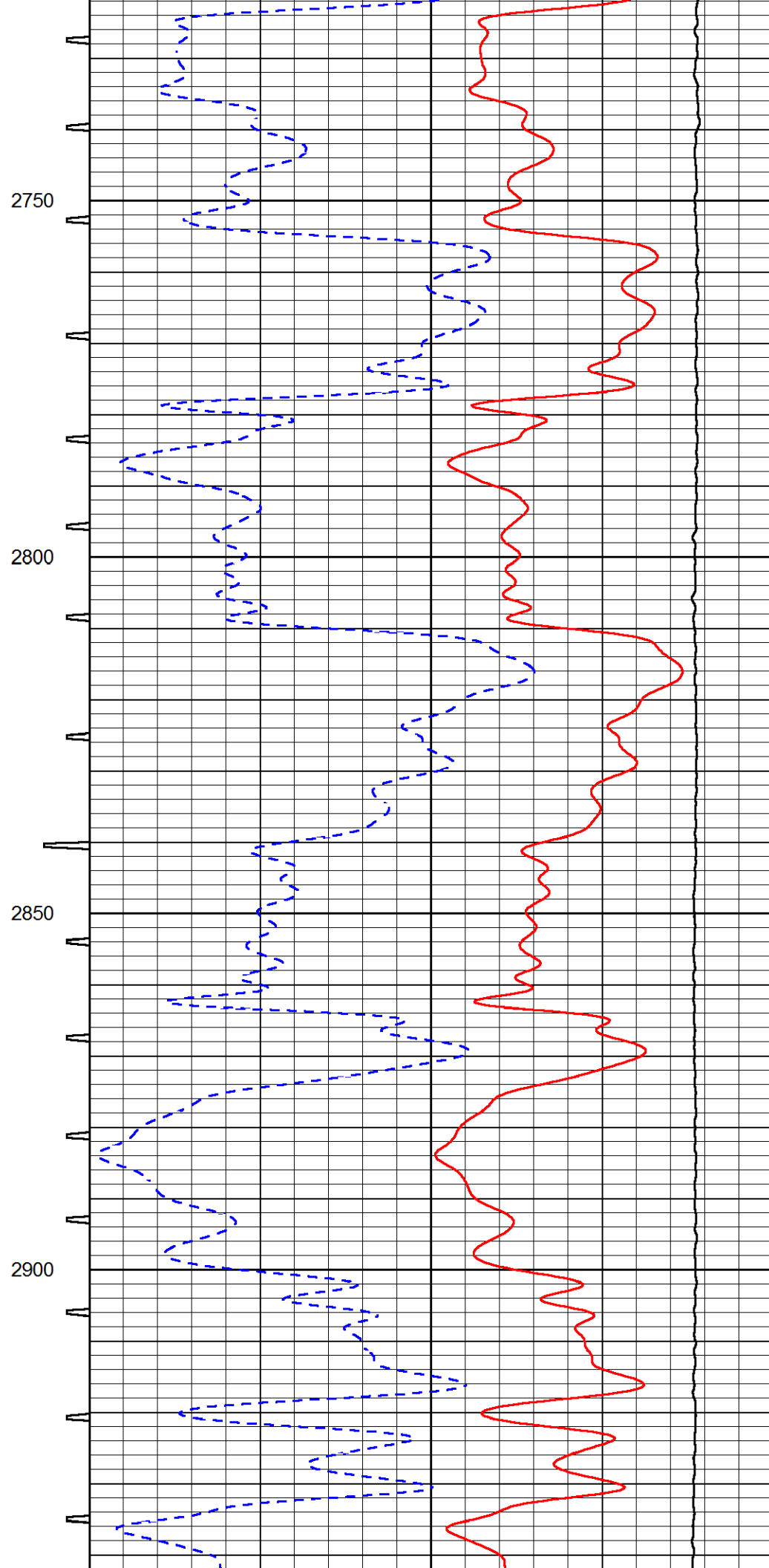
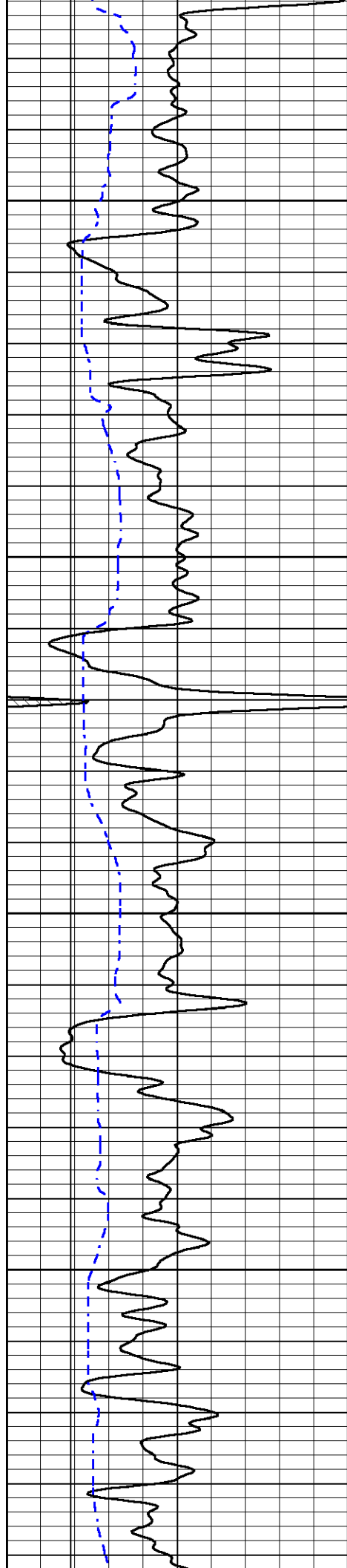


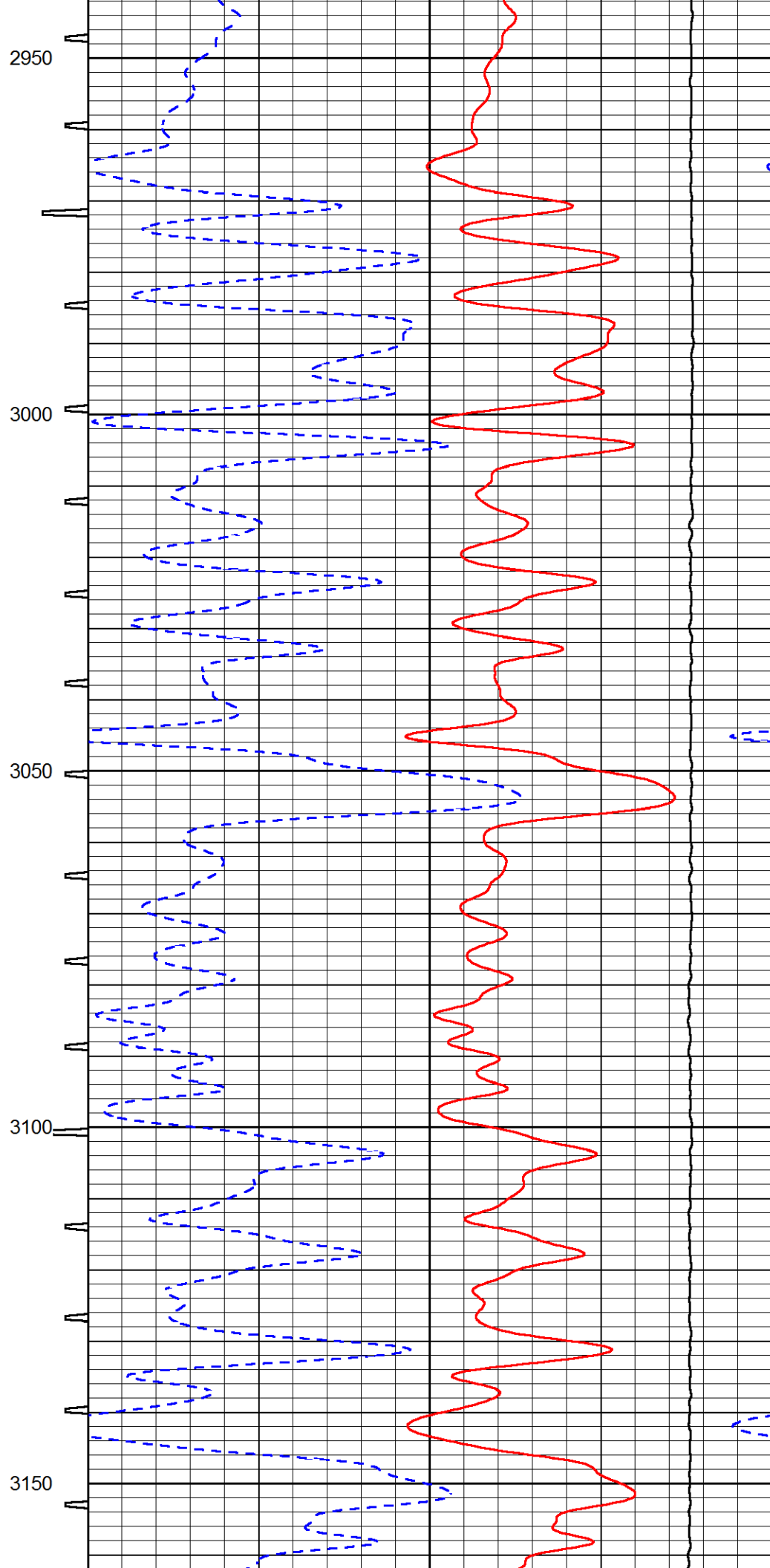
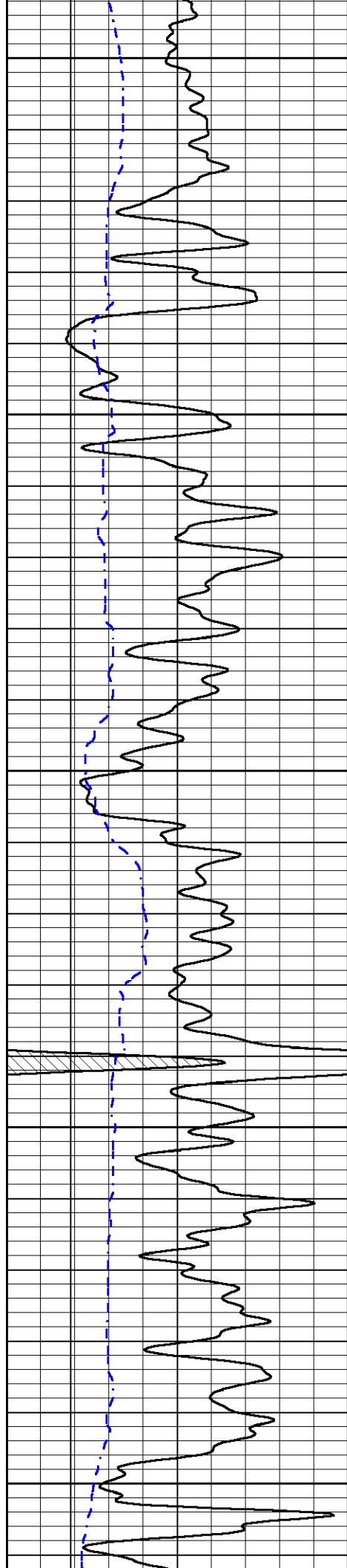


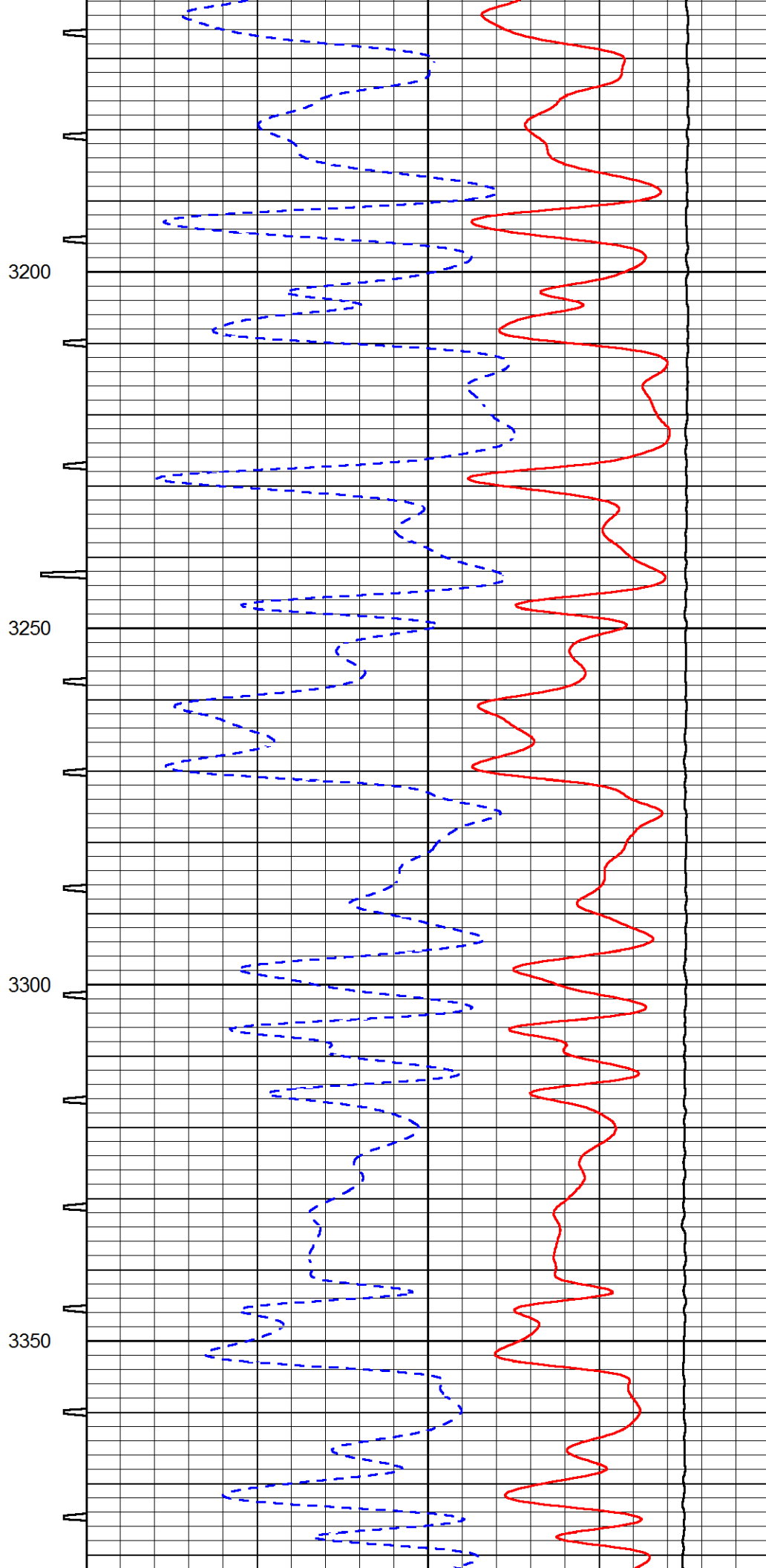
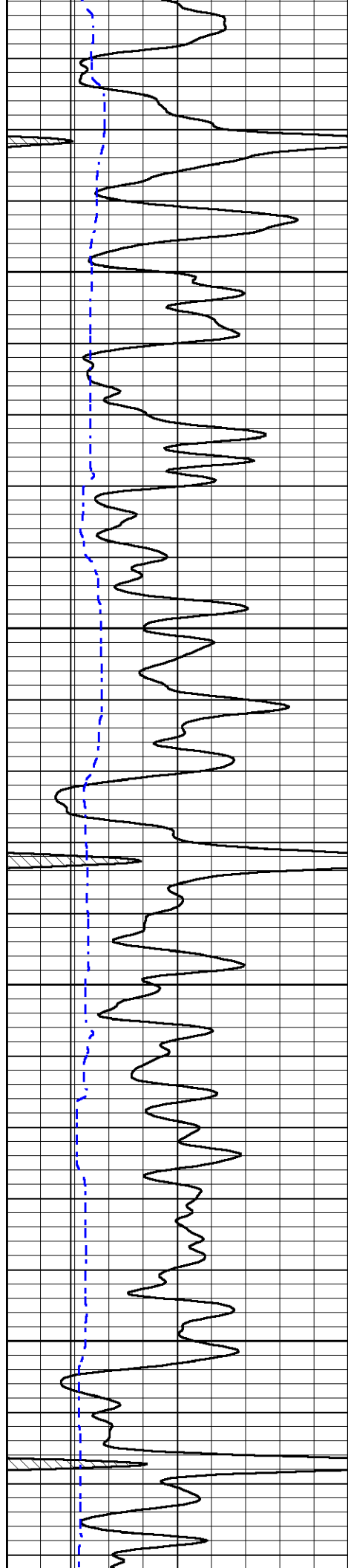


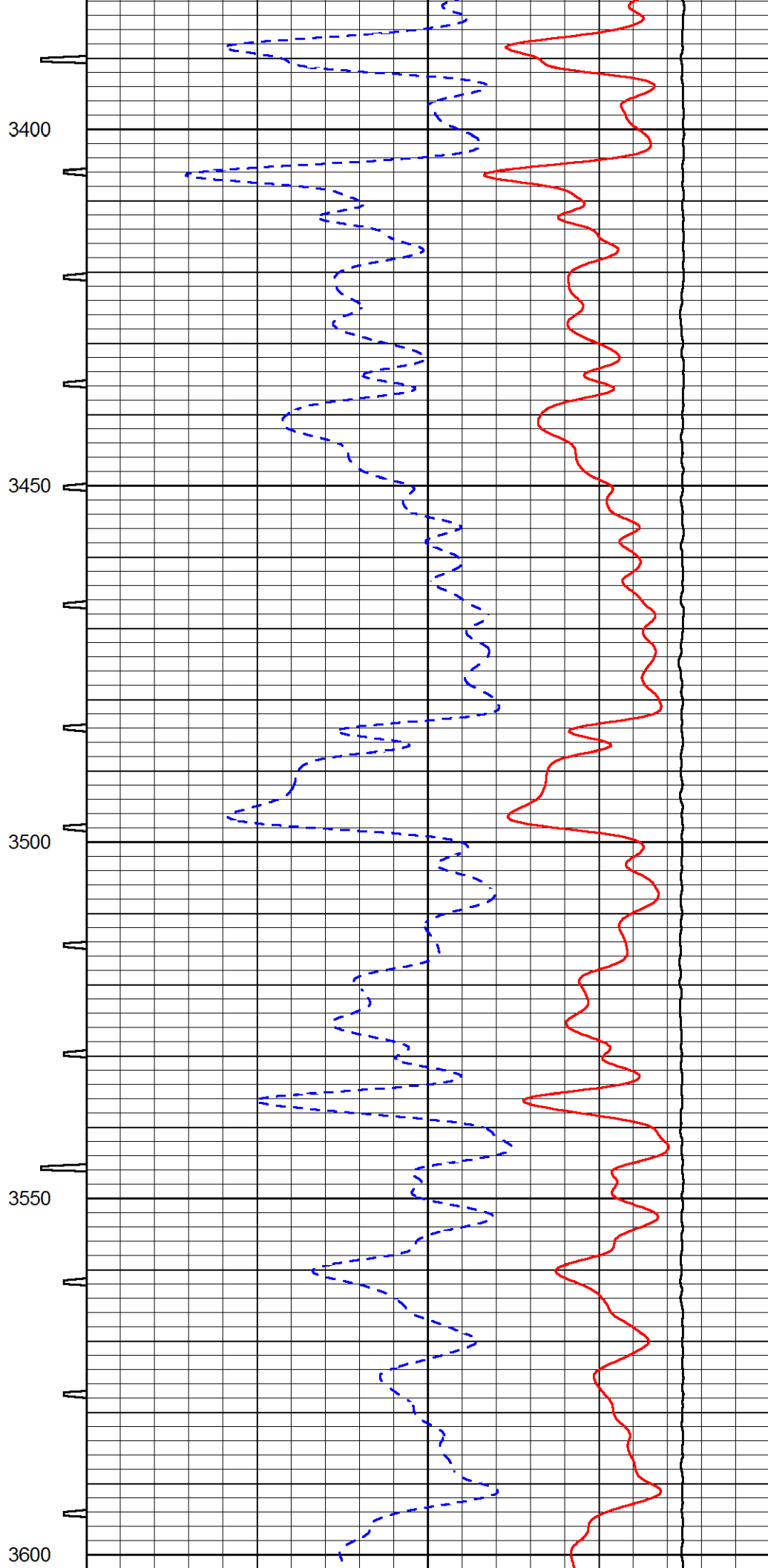
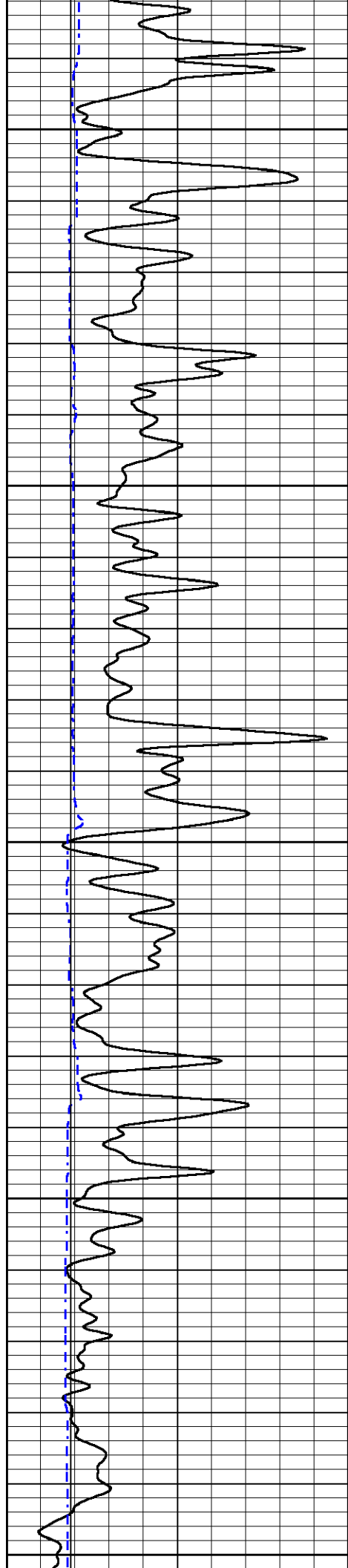


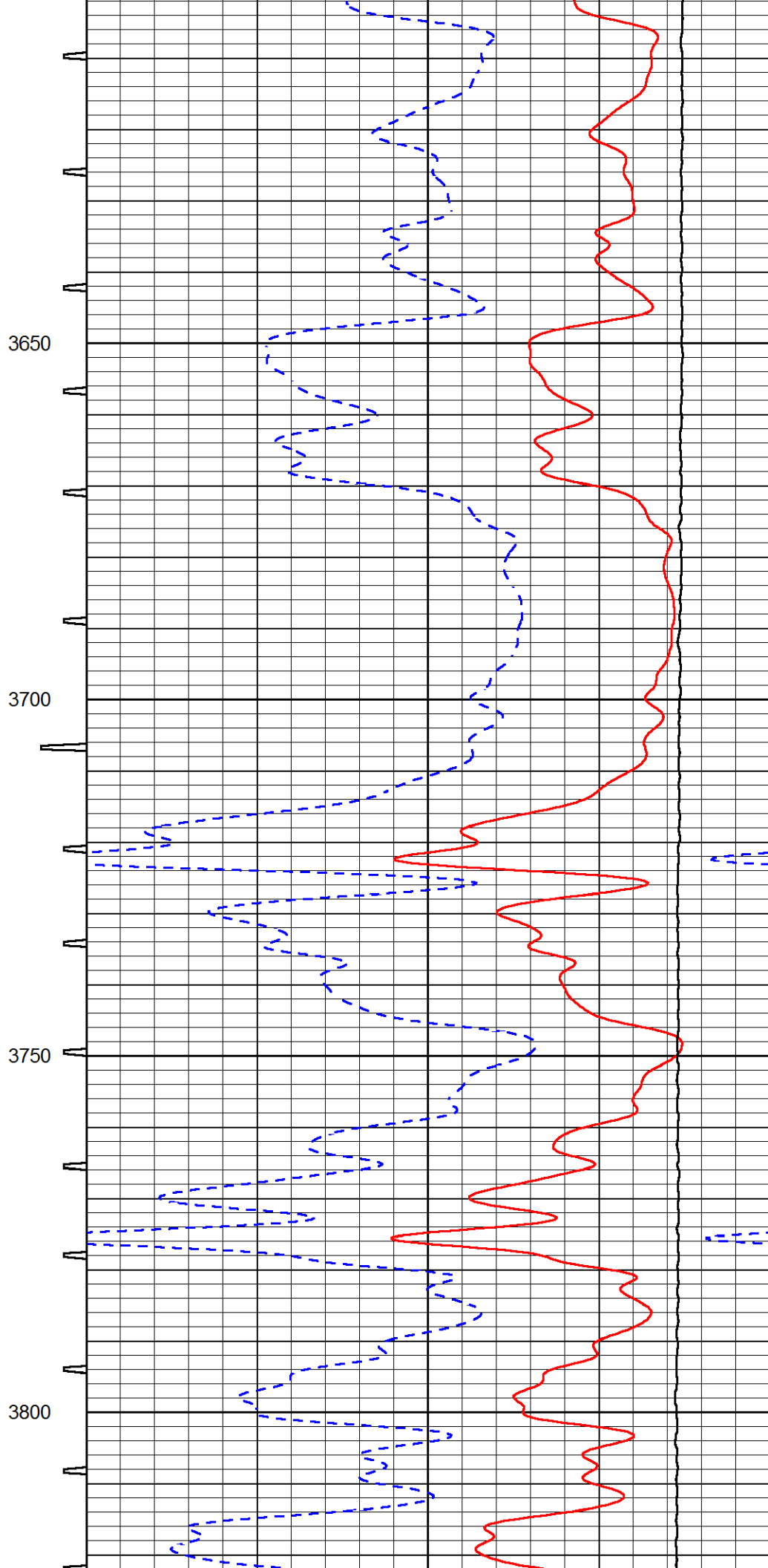
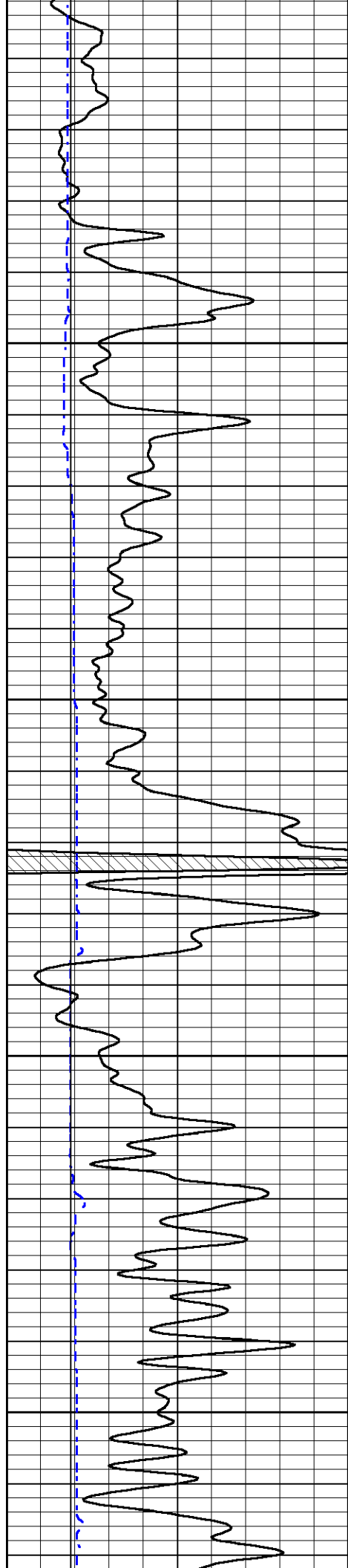


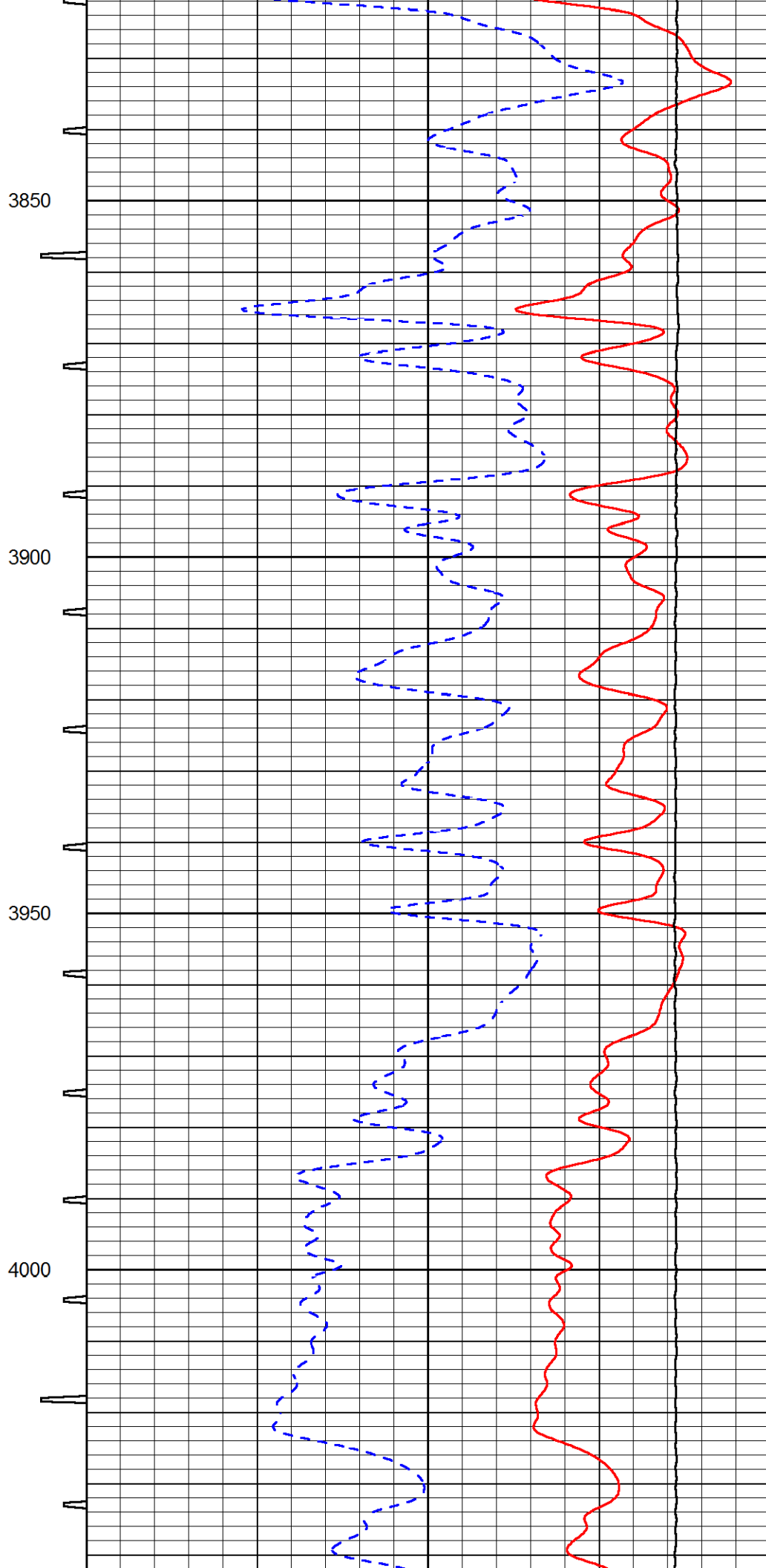
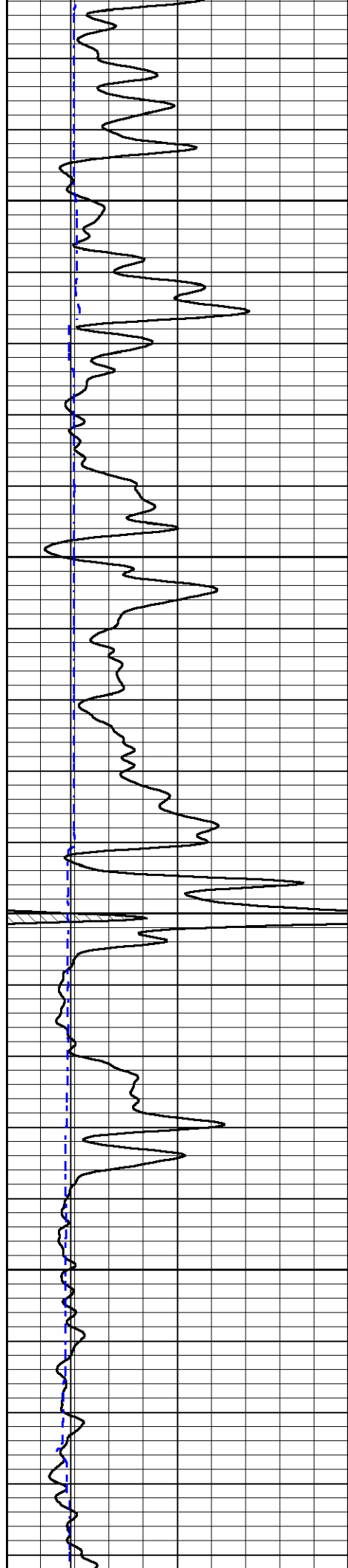


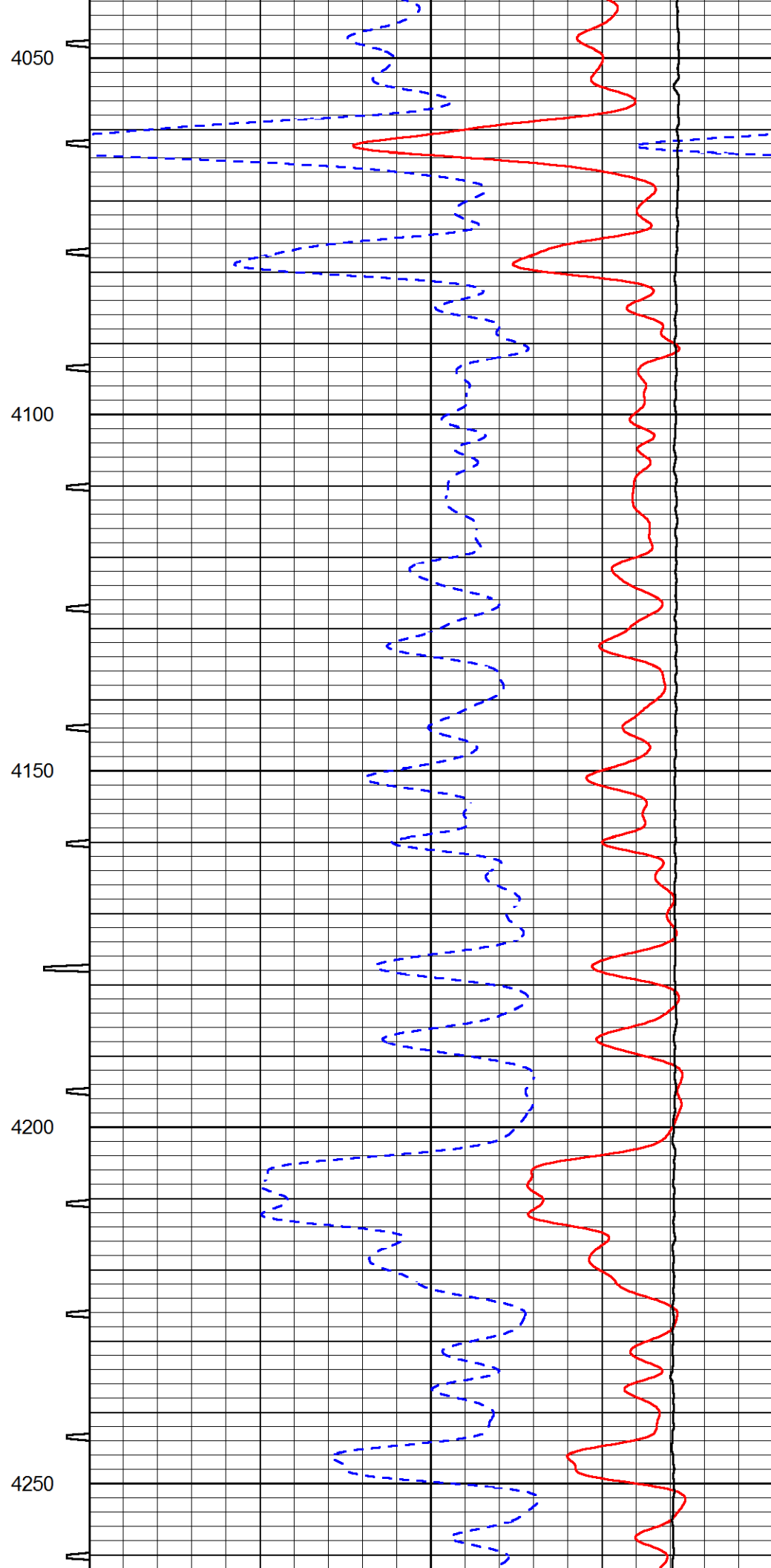
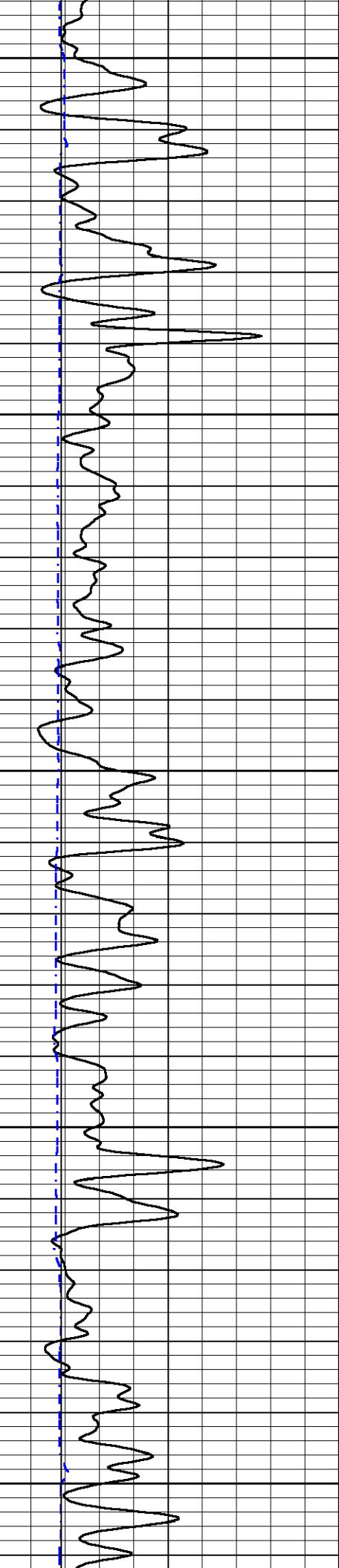


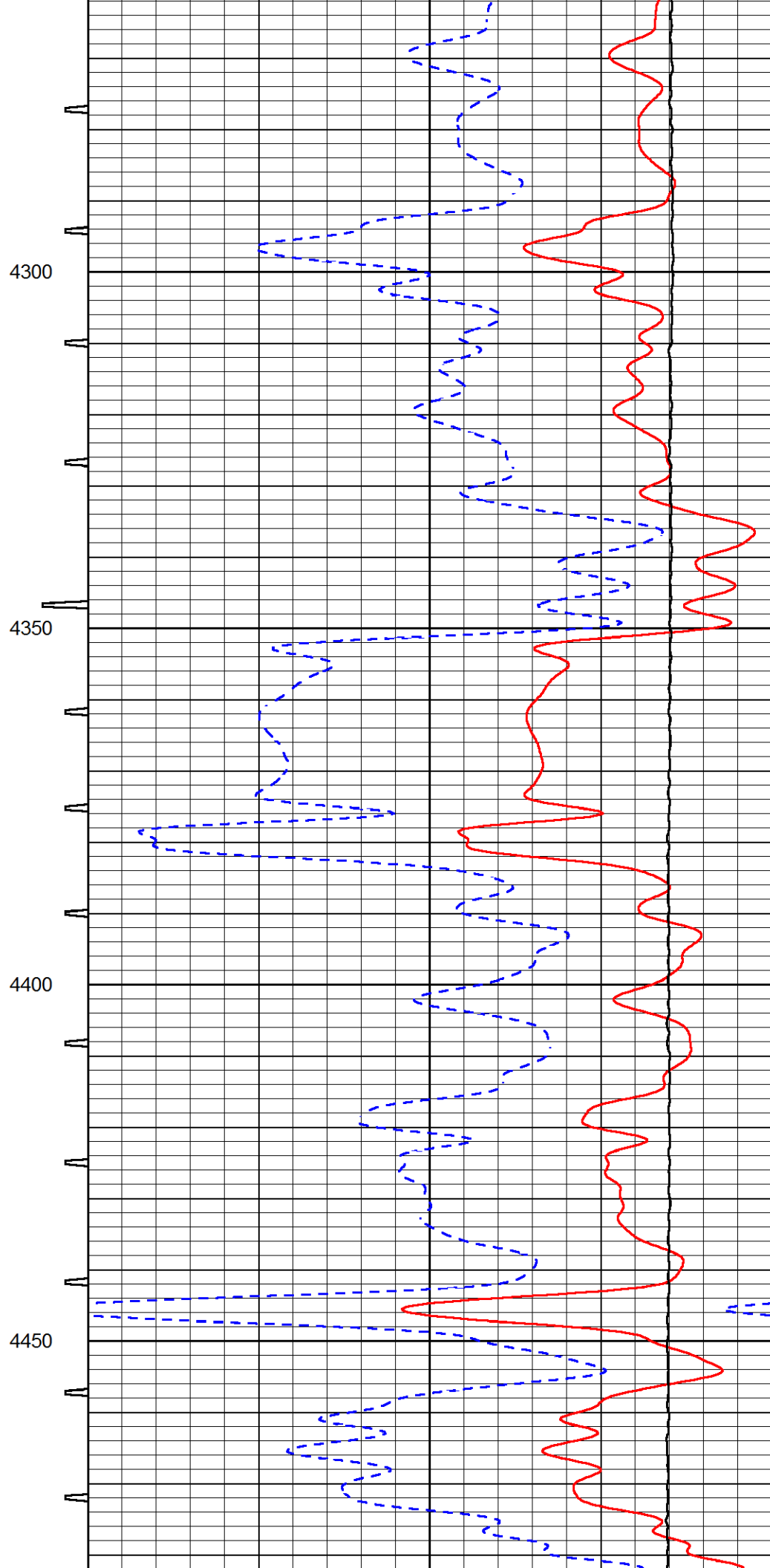
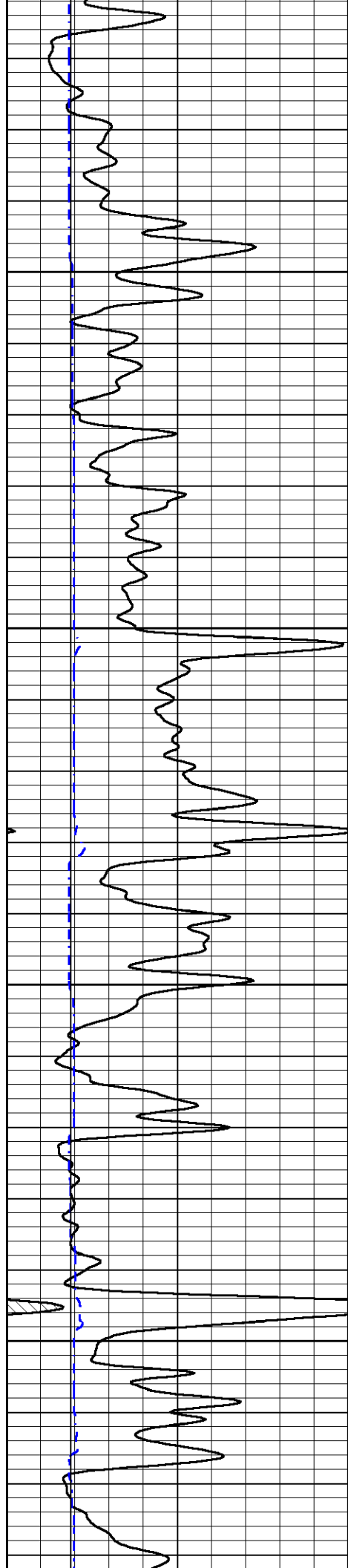


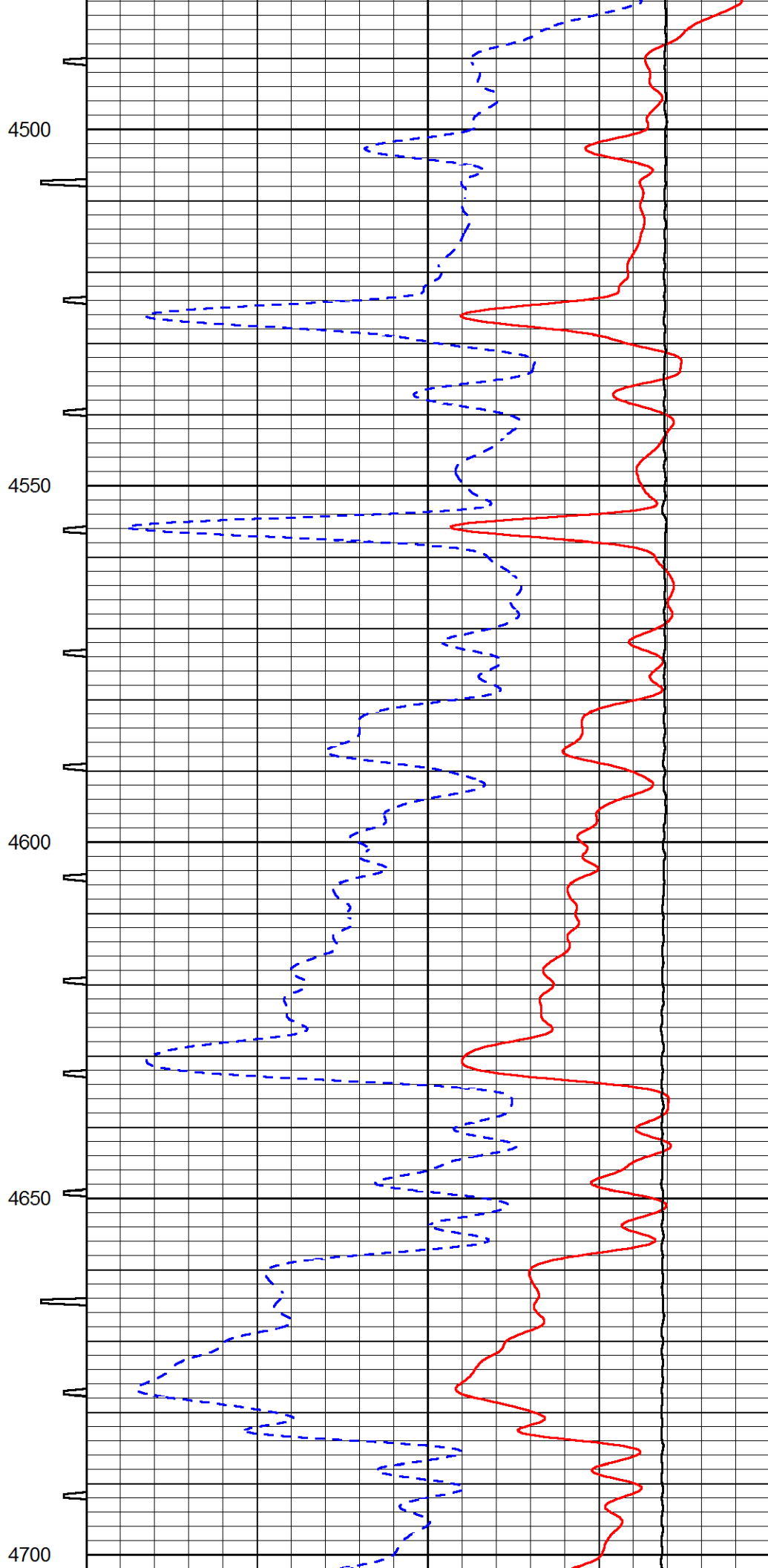
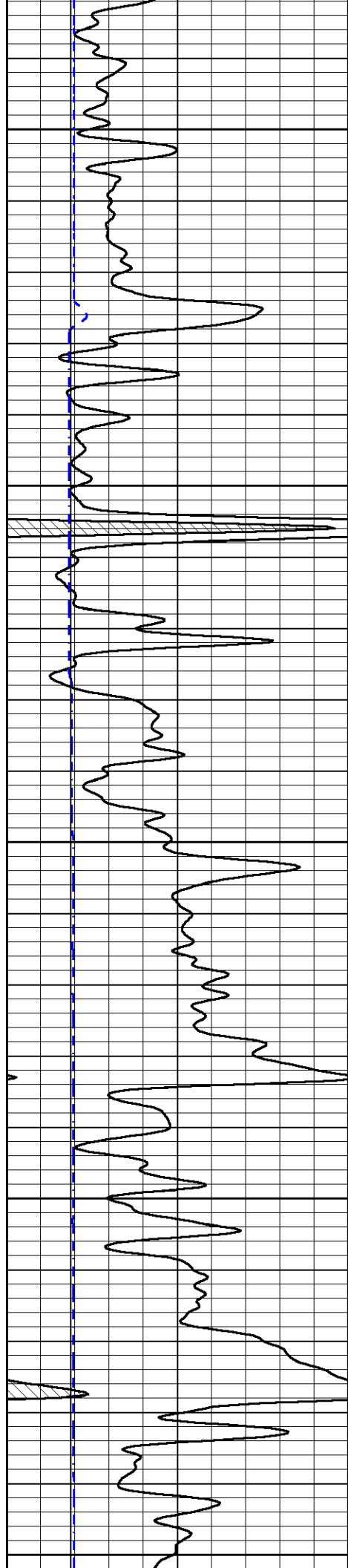


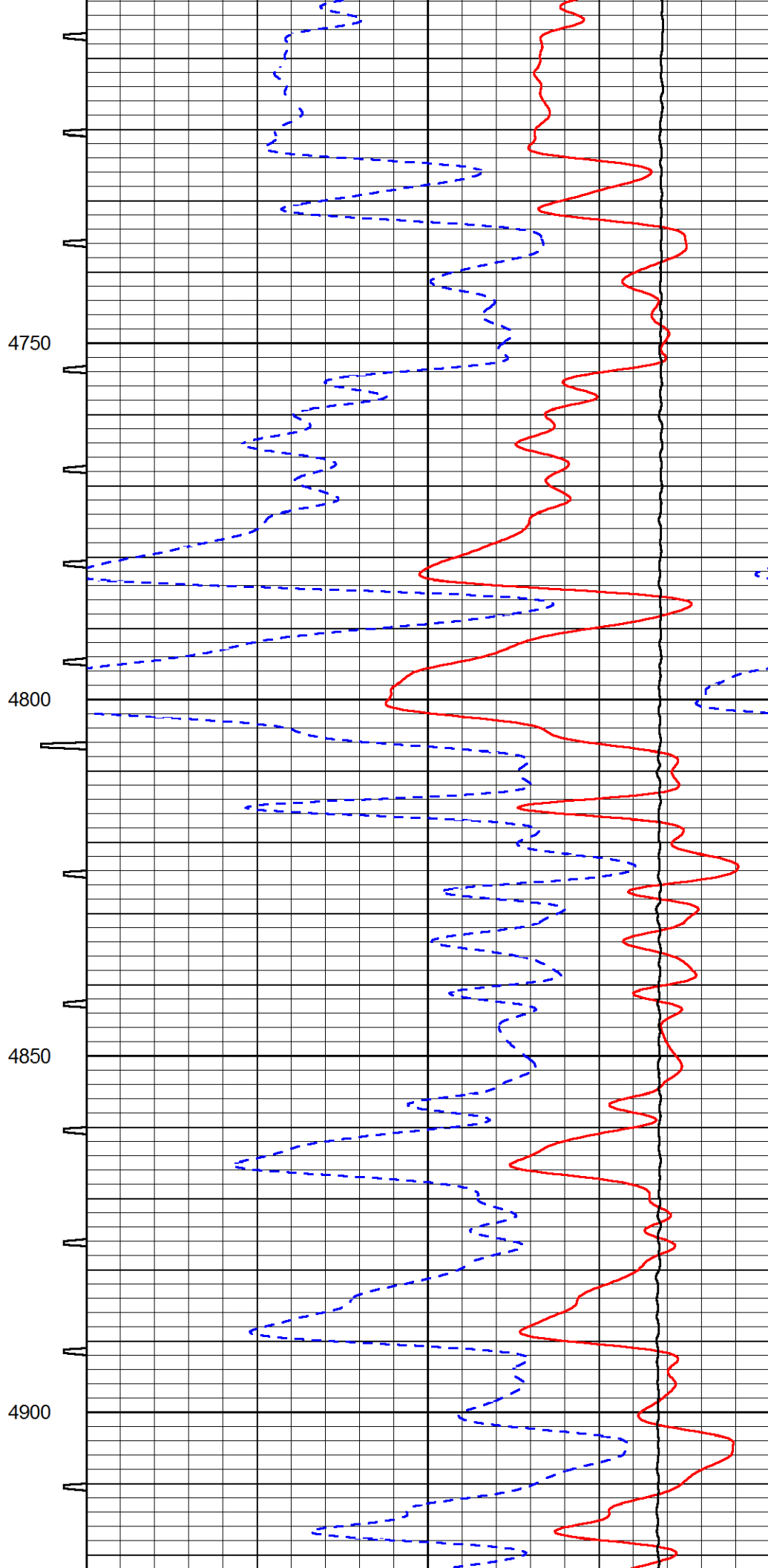
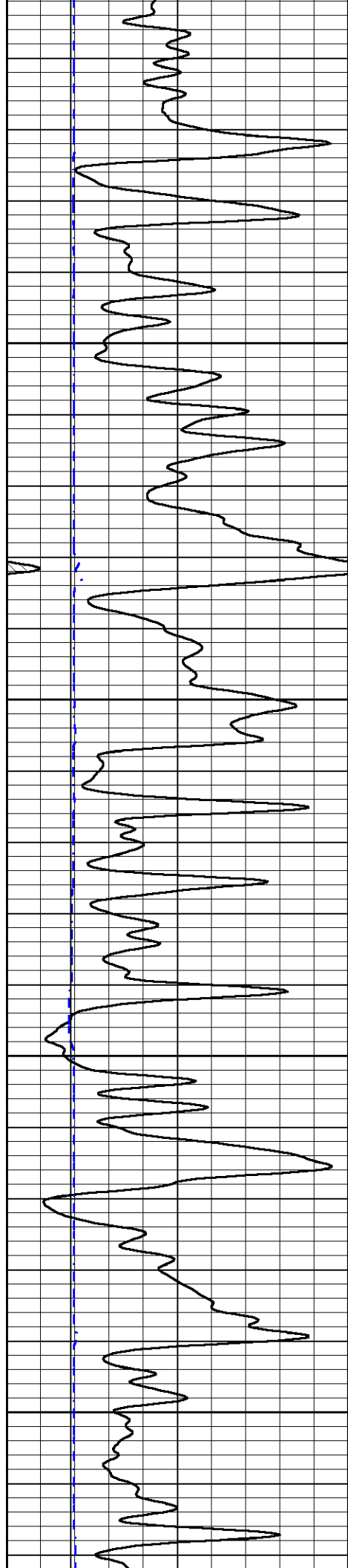


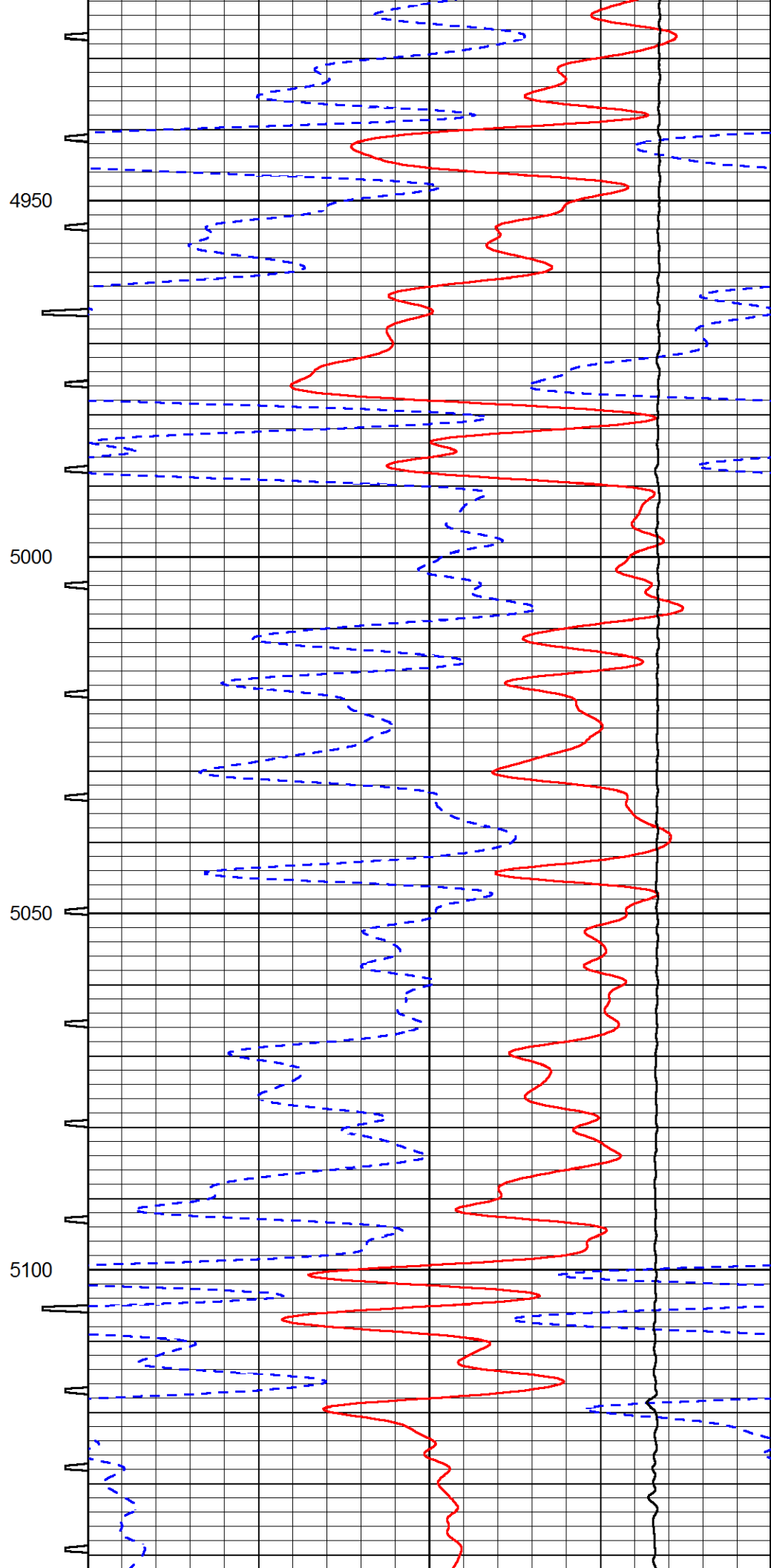
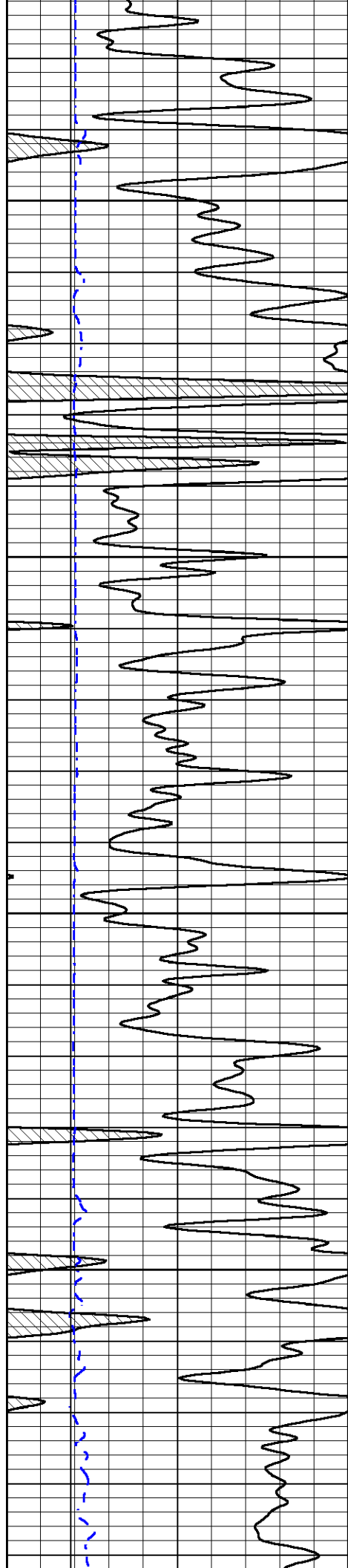


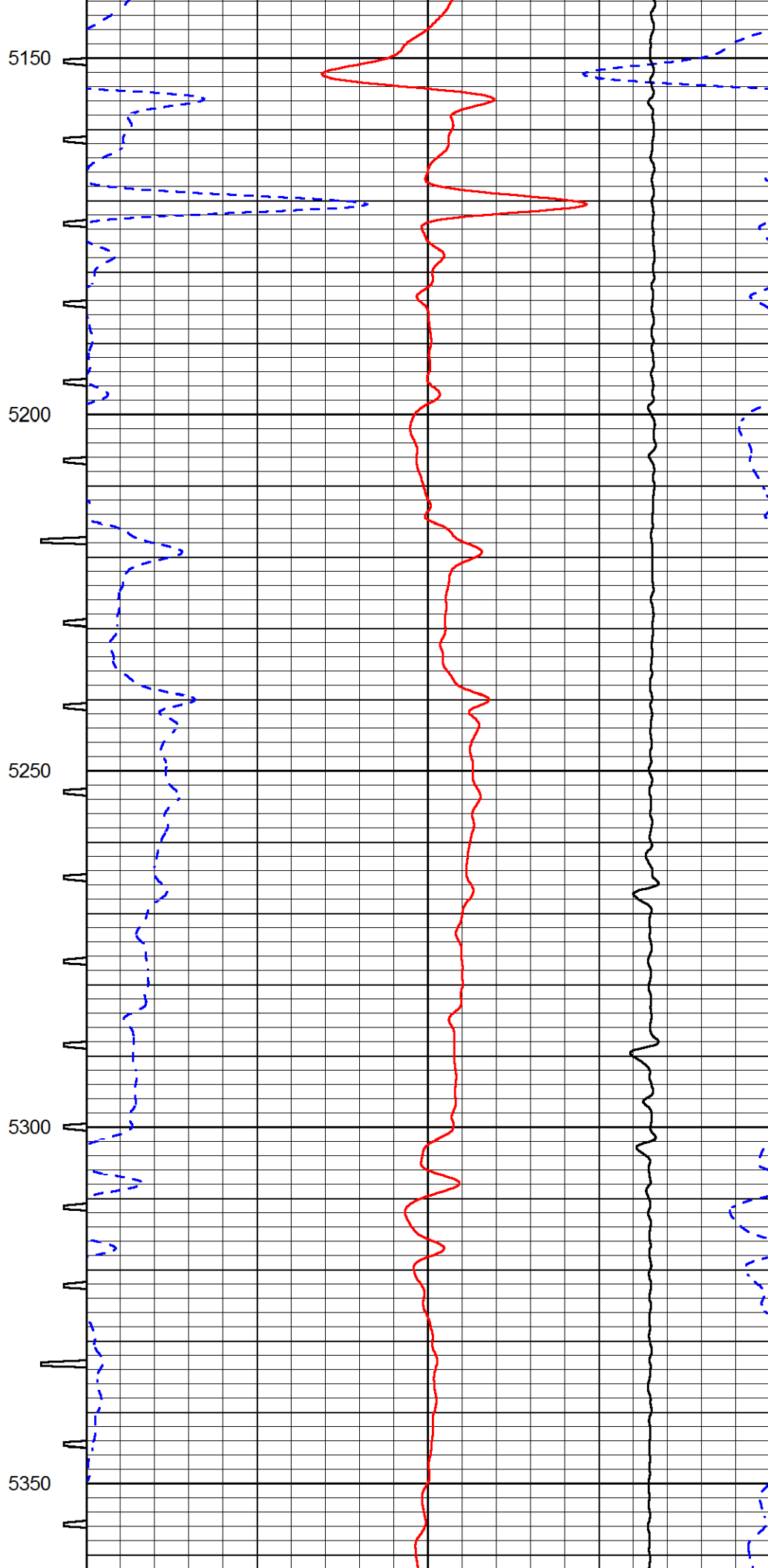
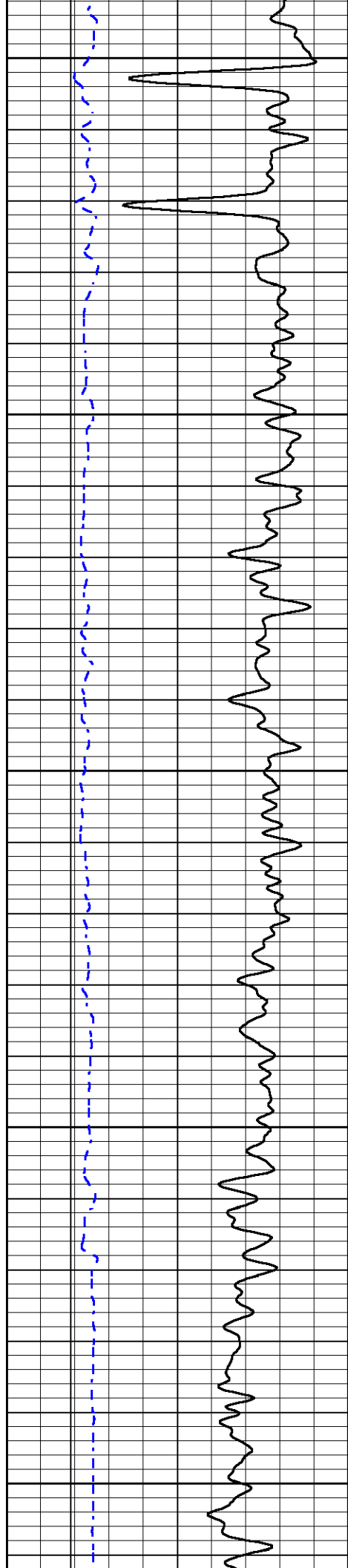


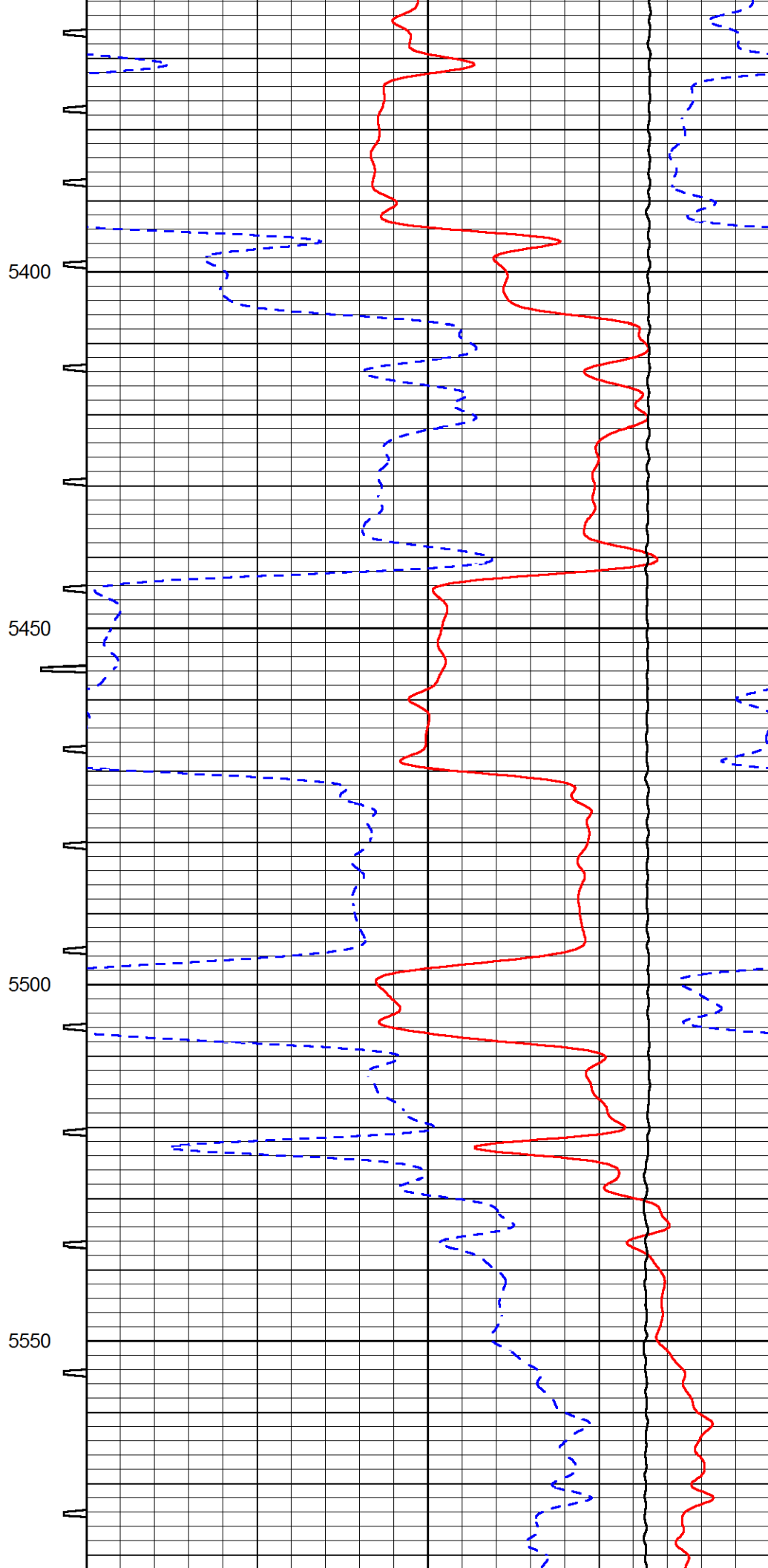
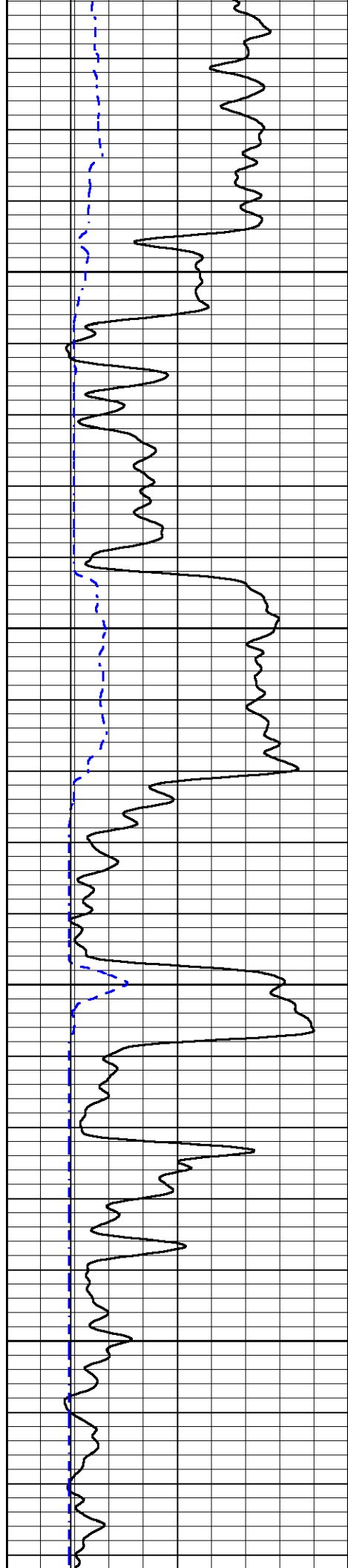


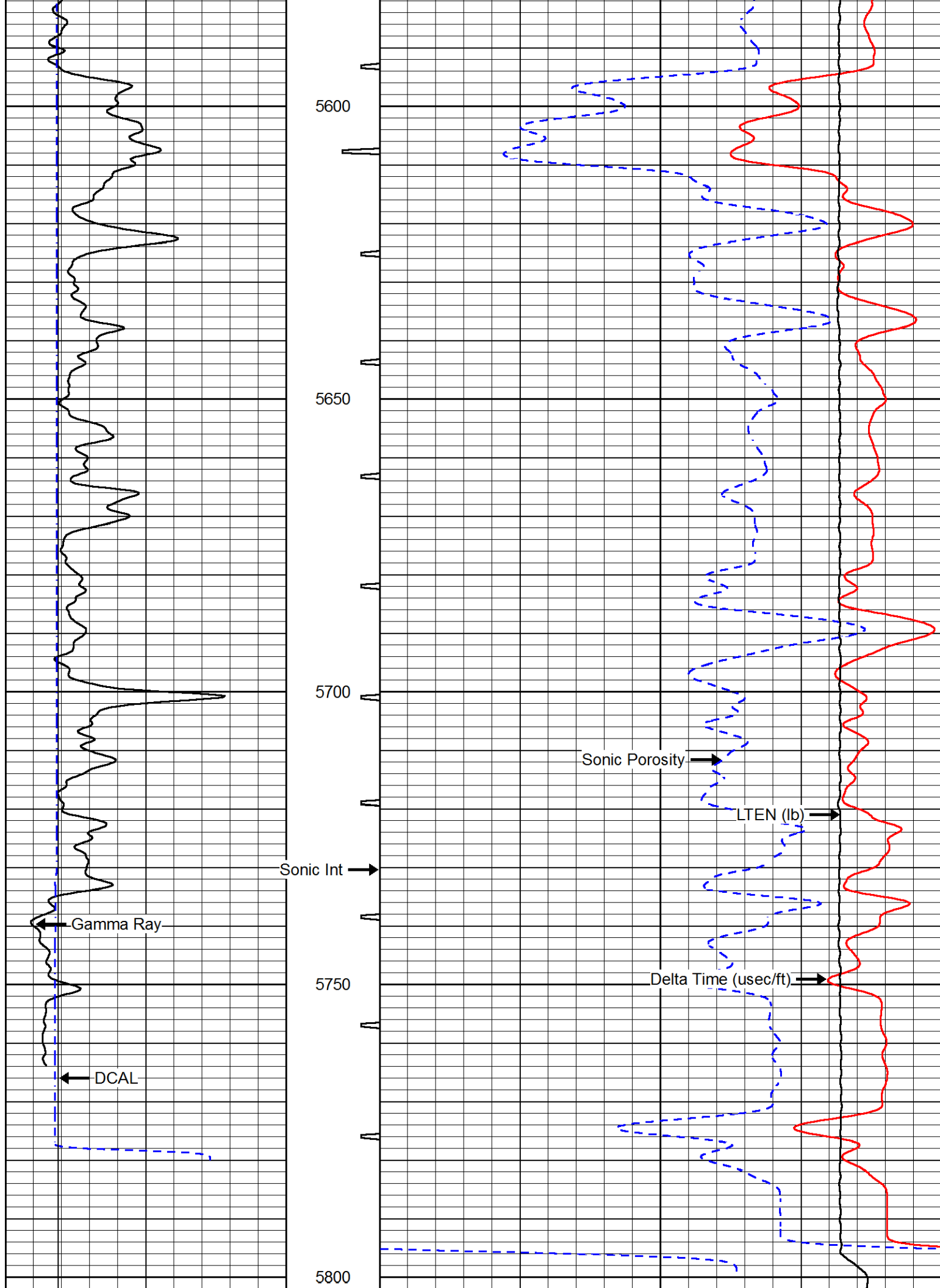












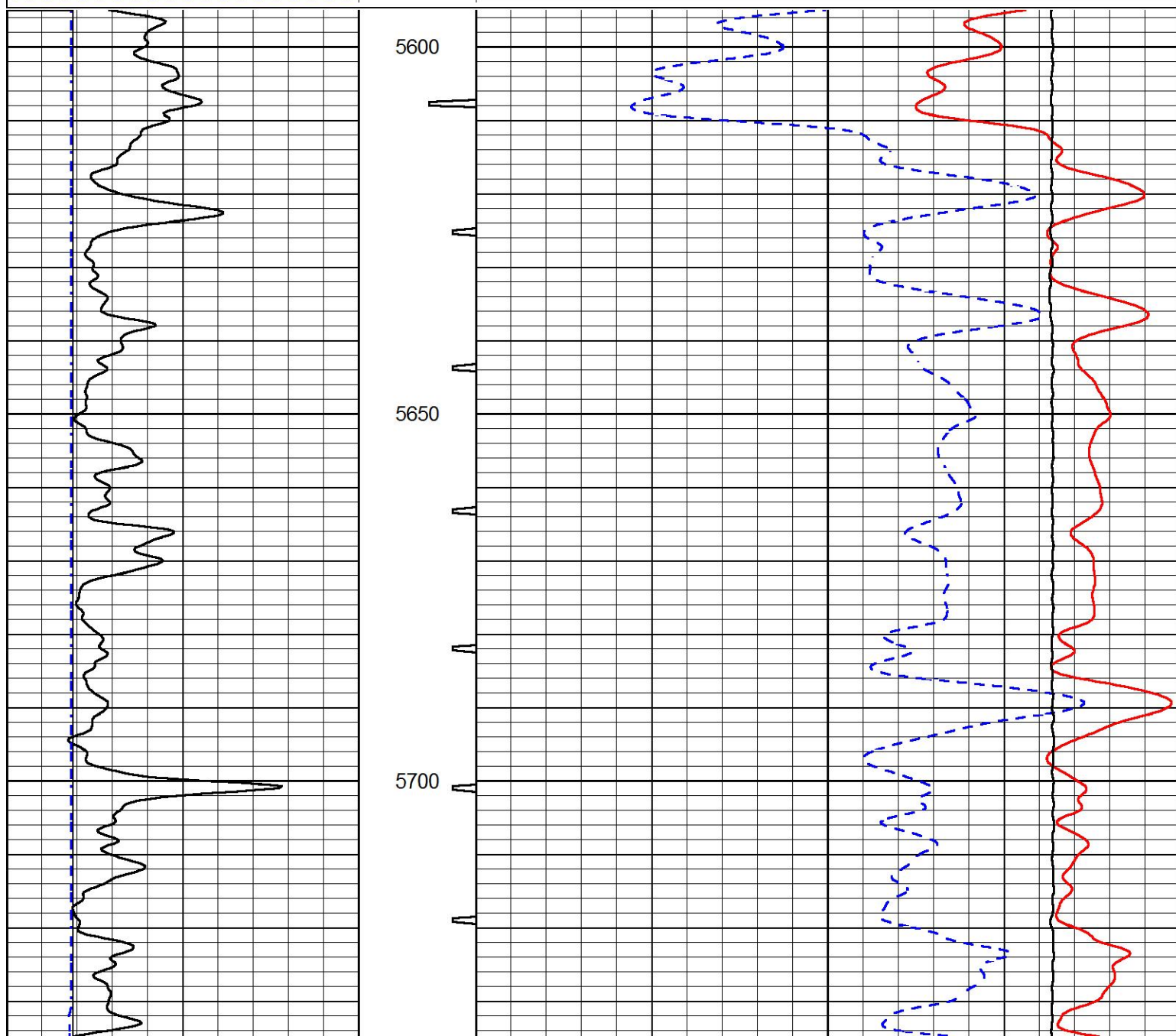
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

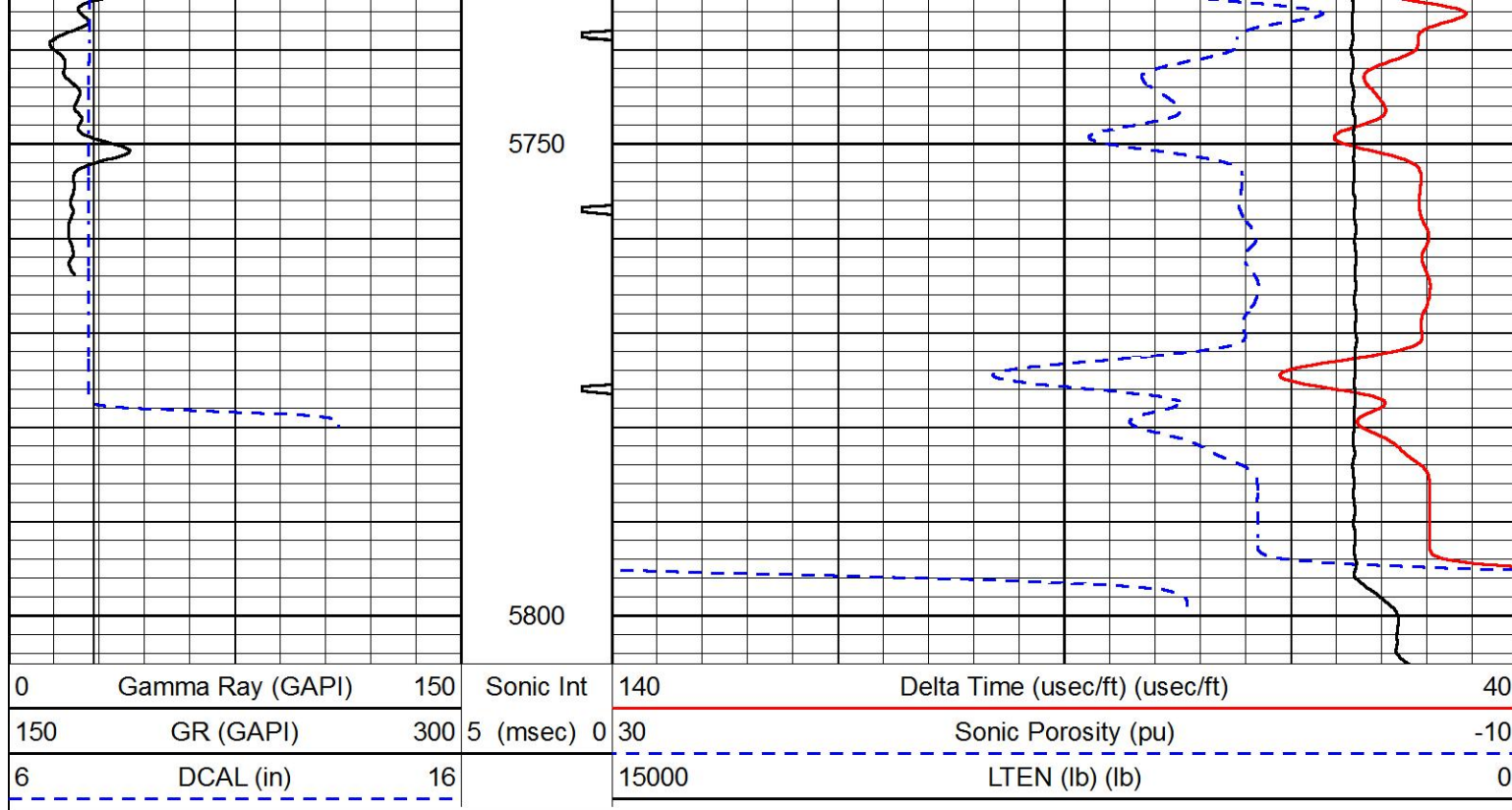


REPEAT SECTION

Database File murfin_plummer_1_25.db
Dataset Pathname stackmel/pass2.1
Presentation Format sonic
Dataset Creation Tue Oct 02 13:48:56 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





		Company	MURFIN DILLING CO., INC.
		Well	PLUMMER #1-25
		Field	DIETTERICH
		County	STANTON
		State	KANSAS