



PIONEER

Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company MURFIN DRILLING CO., INC.

Well GAMBLIN #1-22

Field WILDCAT

County CHEYENNE State KANSAS

Location: API #: 15-023-21495-00-00

2310' FNL & 1805' FWL

SEC 22 TWP 2S RGE 37W

Permanent Datum GROUND LEVEL Elevation 3410'

Log Measured From KELLY BUSHING

Drilling Measured From KELLY BUSHING

Other Services

CNL/CDL
DIL/MEL

Elevation
K.B. 3415'
D.F. N/A
G.L. 3410'

Date 9/25/2018

Run Number TWO

Type Log BHCS

Depth Driller 4950'

Depth Logger 4954'

Bottom Logged Interval 4942'

Top Logged Interval 350'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 900

Density 9.0

Level FULL

Max. Rec. Temp. F 126

Operating Rig Time 5 HOURS

Equipment -- Location 91 HAYS

Recorded By IAN MABB

Witnessed By SAMAN SHARIFAIE

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	387'	8.625"	23#	0'	387'
TWO	7.875"	387'	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.

BIRD CITY, KS.

EAST TO RD. 32, NORTH 7 MILES, EAST INTO AT
THE TANK BATTERY

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

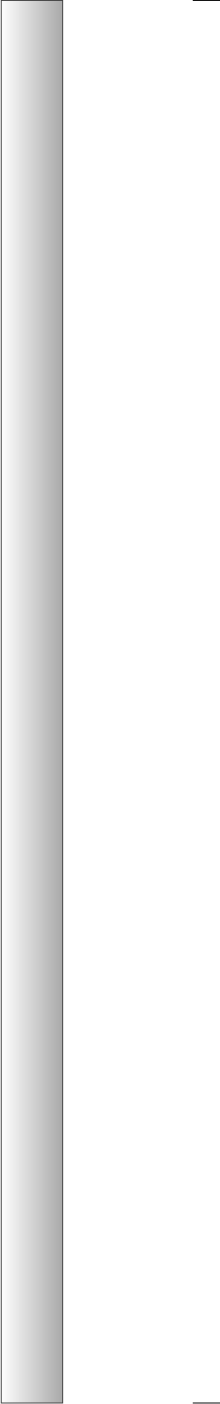
Engineer: IAN MABB
Operator:
Operator:
Operator:

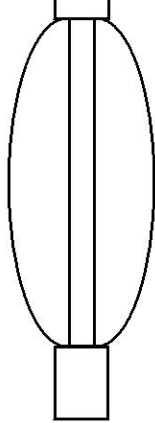
This Log Record Was Witnessed By

Primary Witness: SAMAN SHARIFAIE
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	689	3
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
5	55	0	5.5	0	4954	126	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

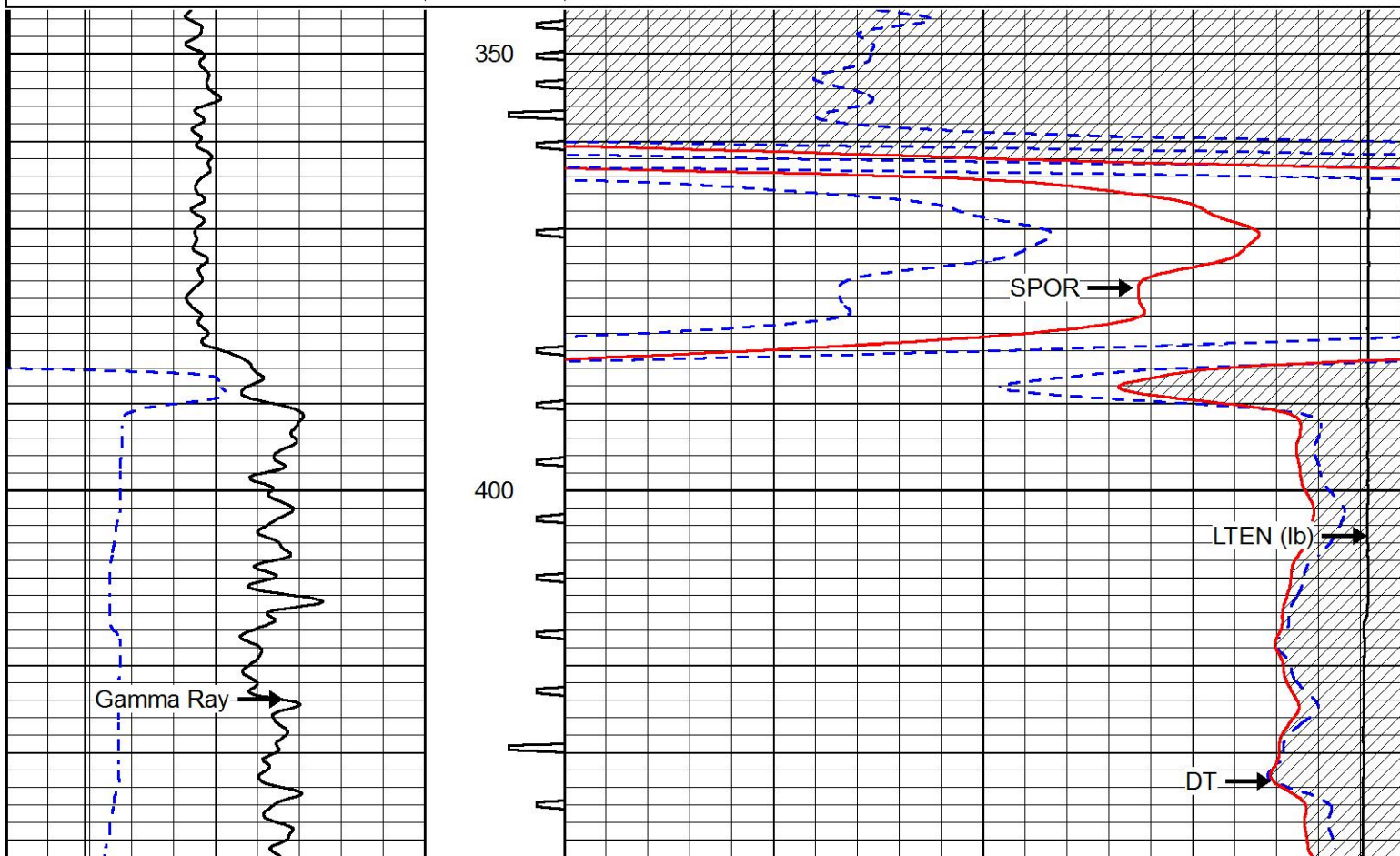
Dataset: murfin_gamblin_1_22.db: field/well/SON/pass2
Total length: 21.50 ft
Total weight: 370.00 lb
O.D.: 3.50 in

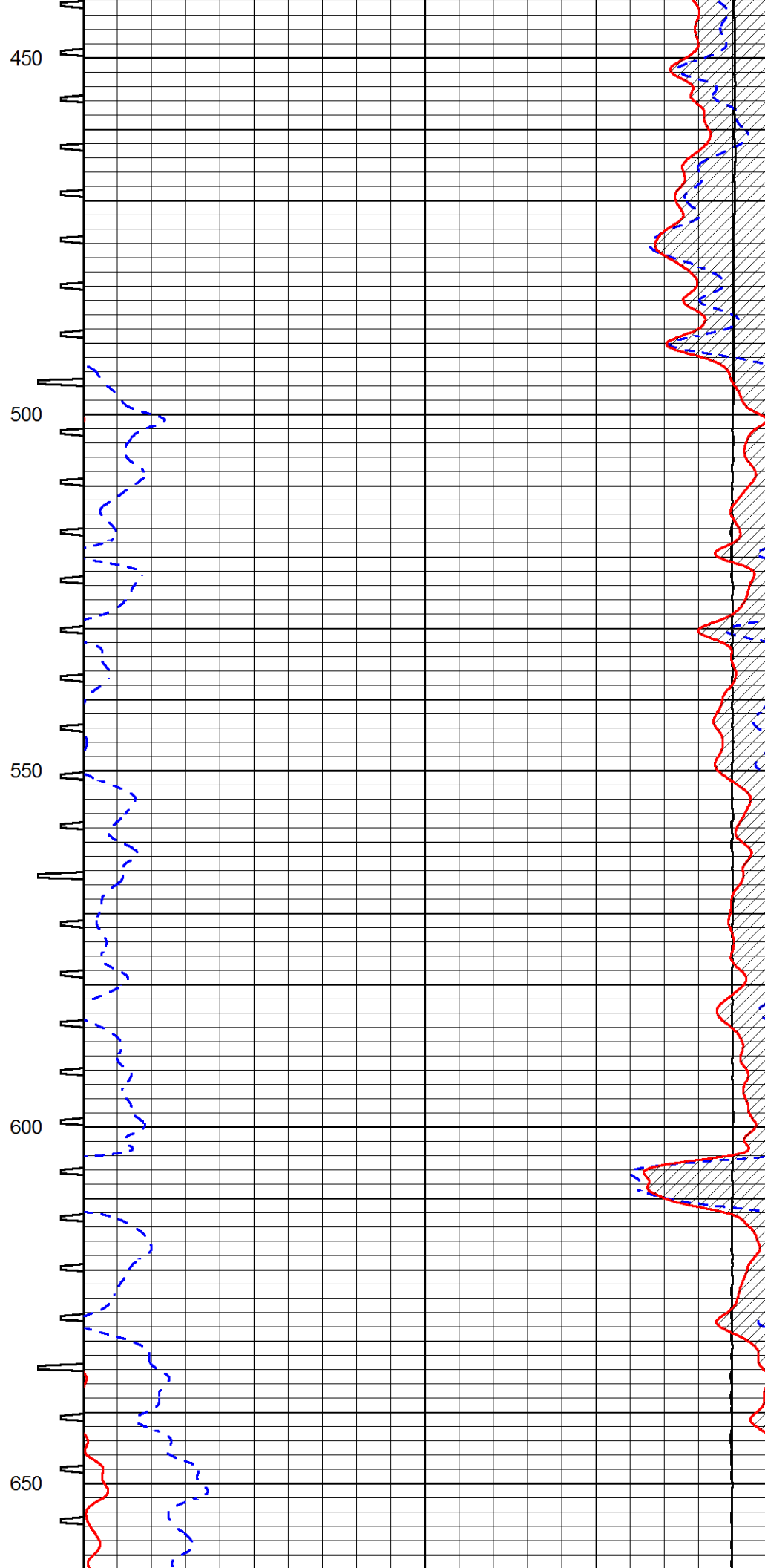
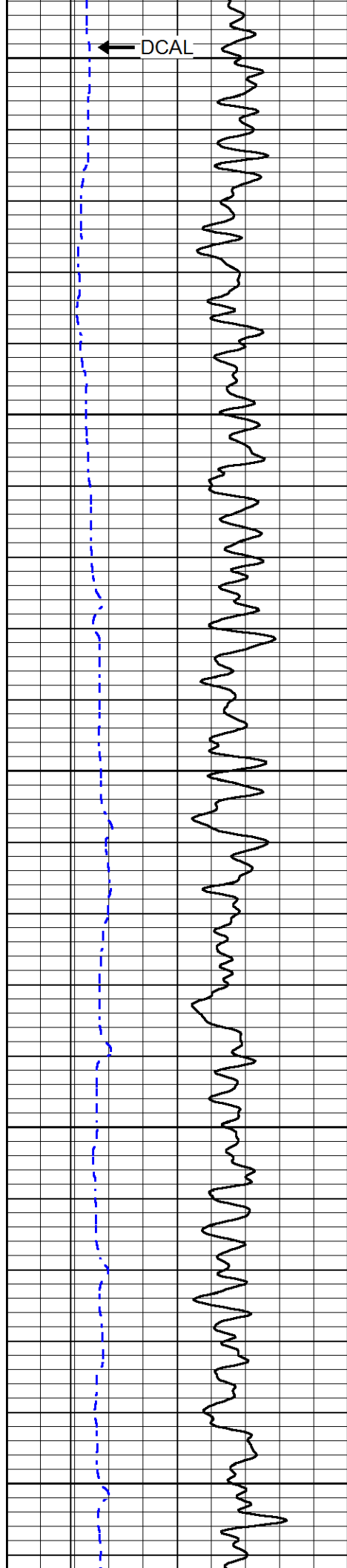


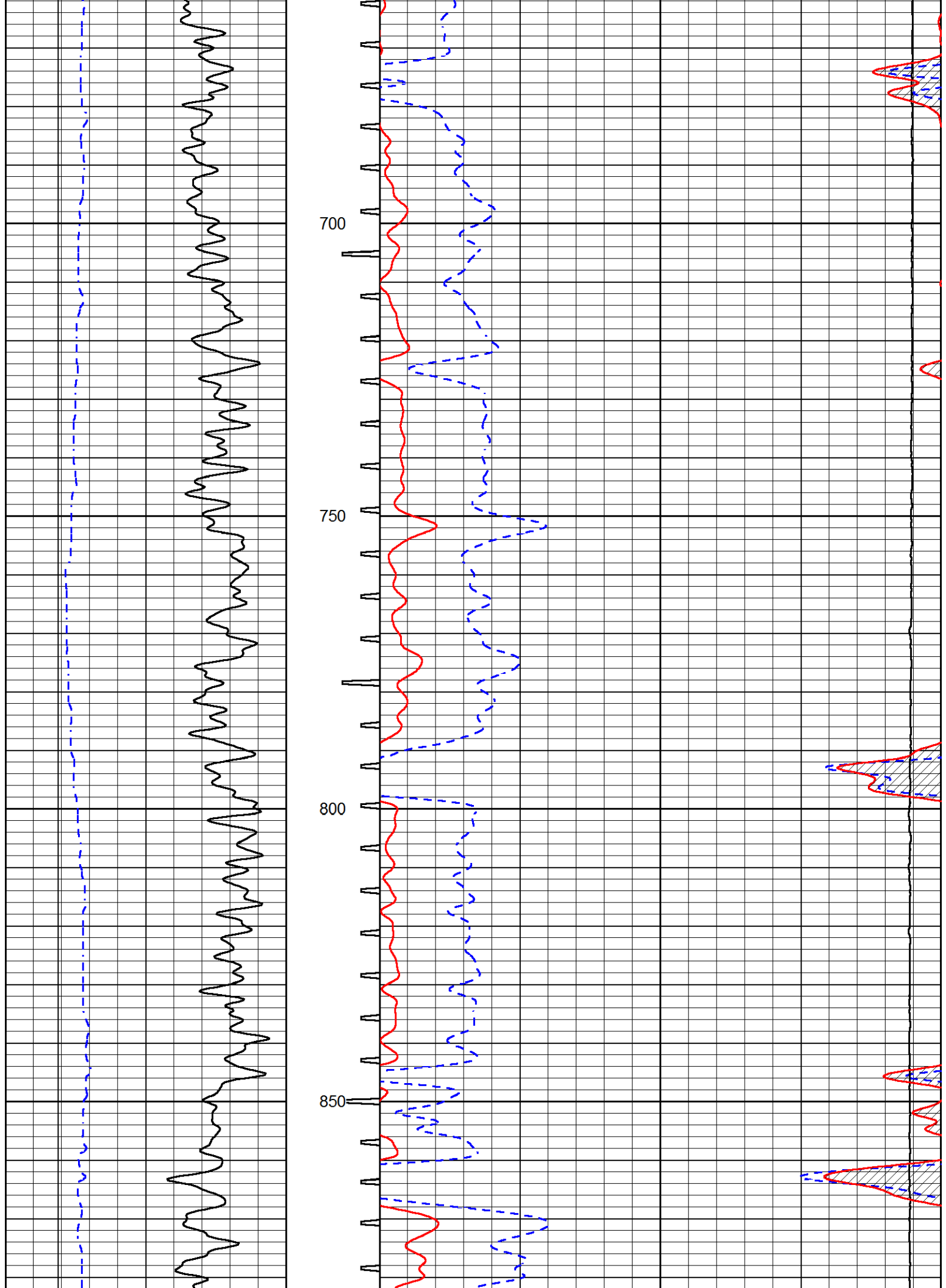
MAIN PASS

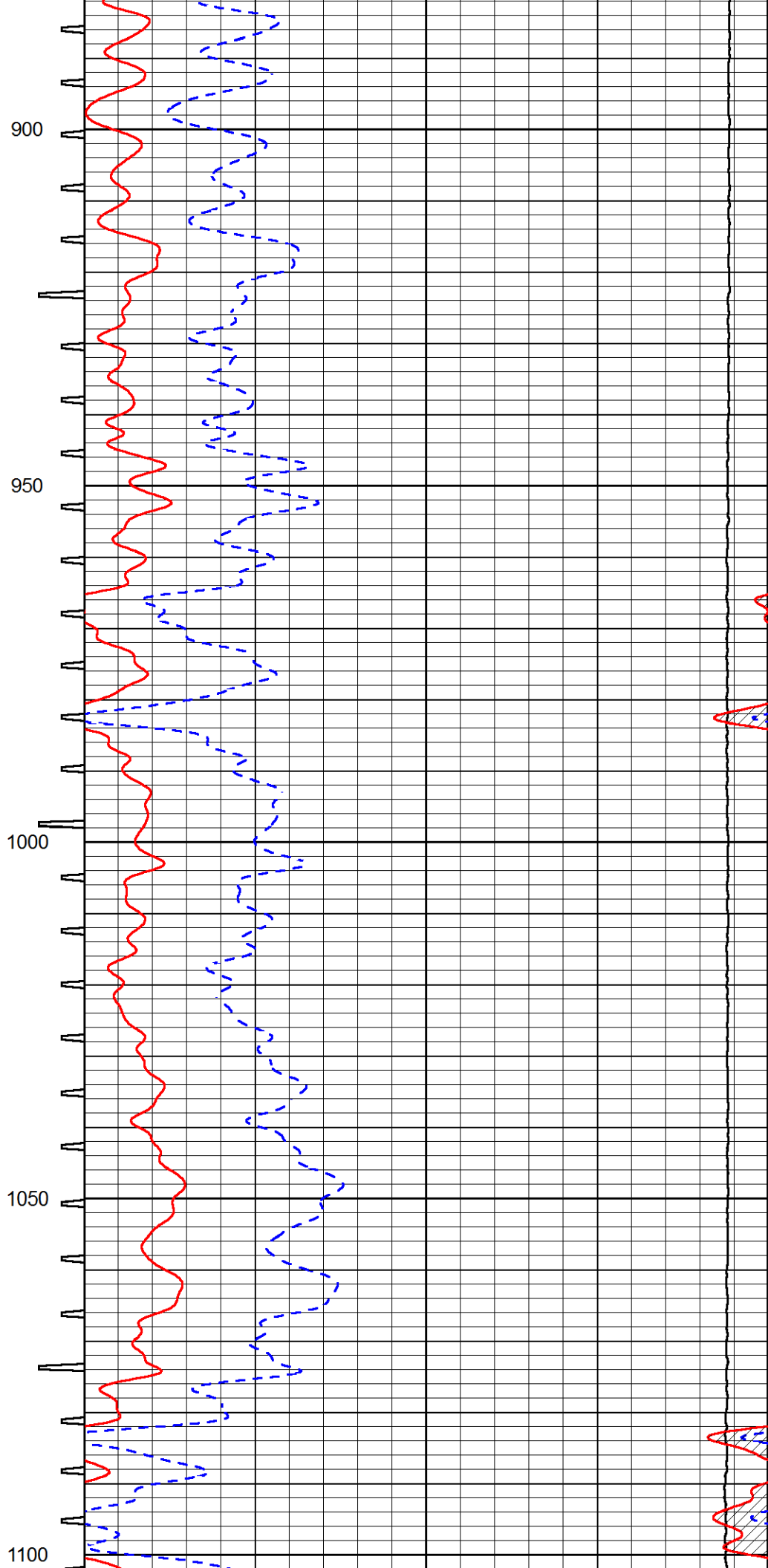
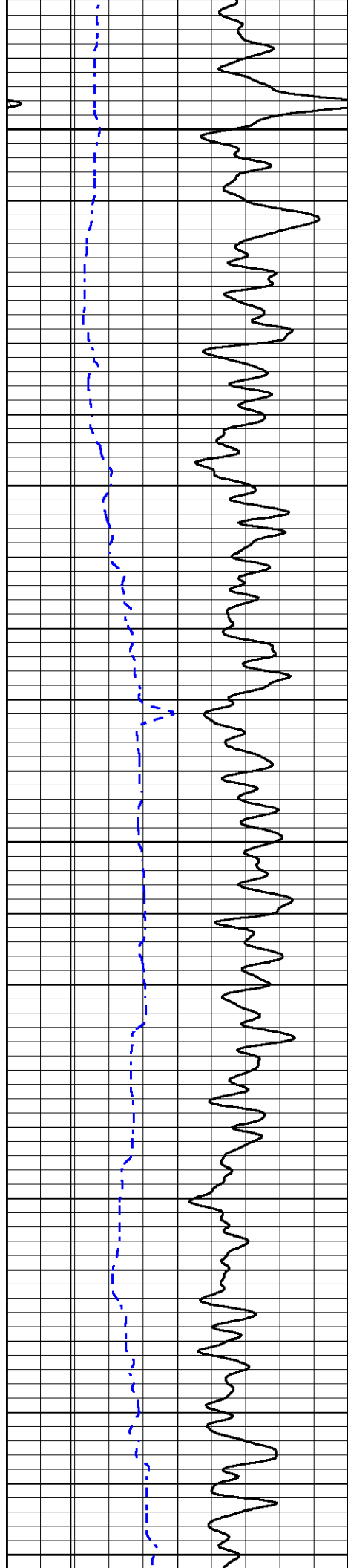
Database File murfin_gamblin_1_22.db
Dataset Pathname stackmel/pass4.1
Presentation Format sonic
Dataset Creation Tue Sep 25 08:04:55 2018
Charted by Depth in Feet scaled 1:240

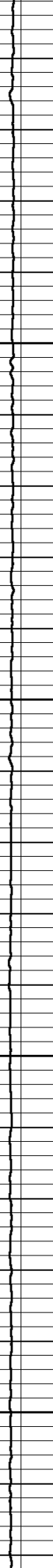
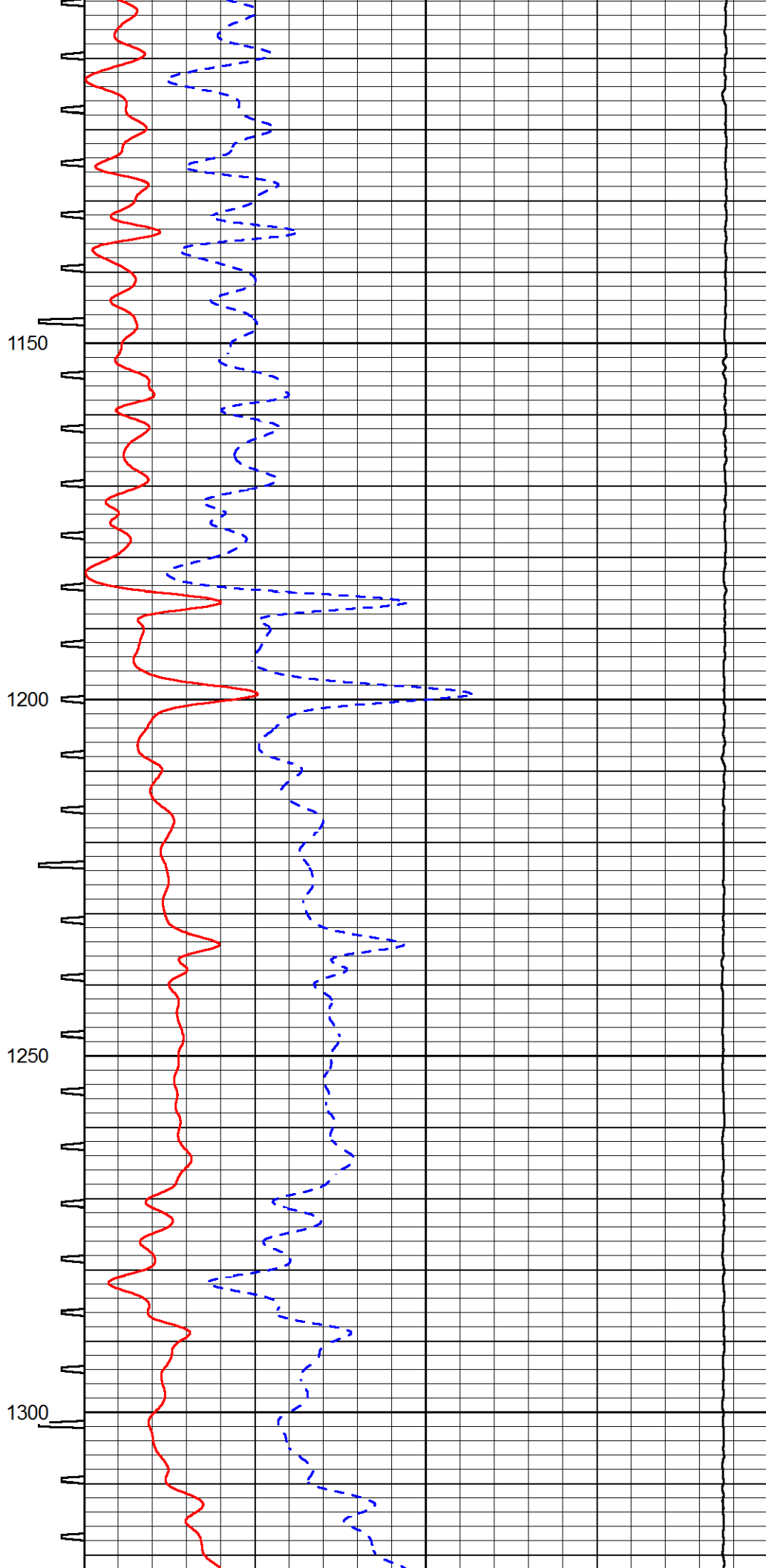
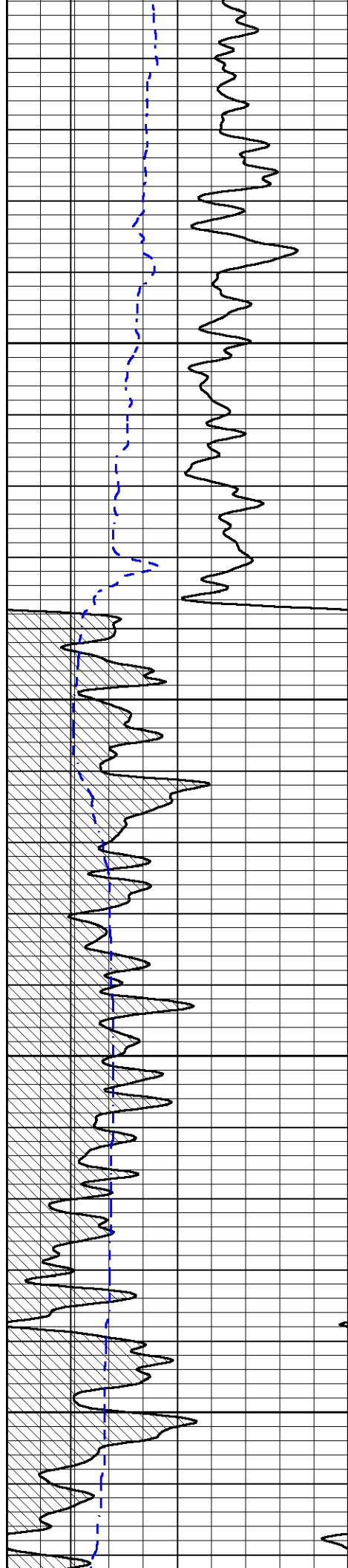
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

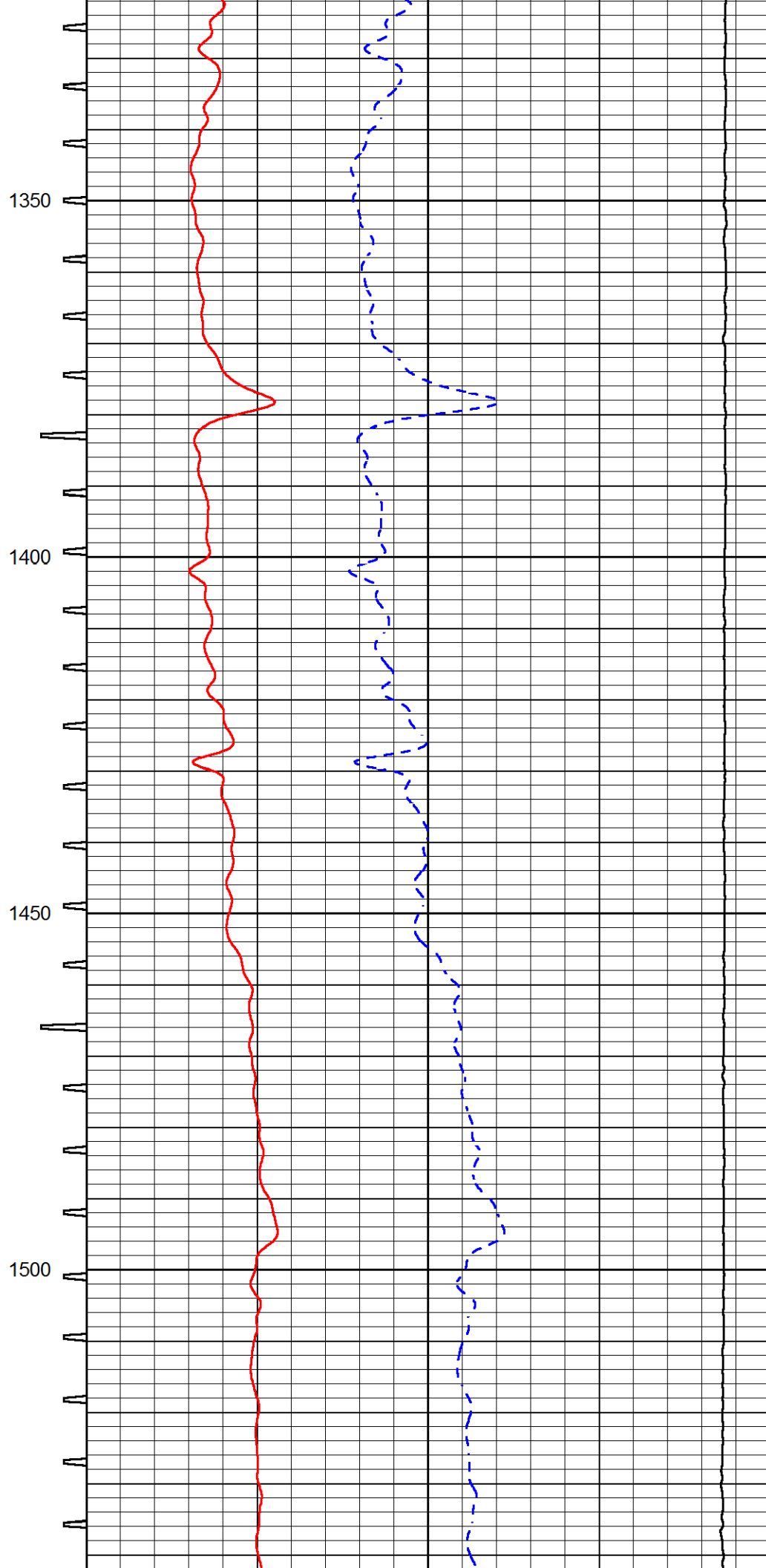
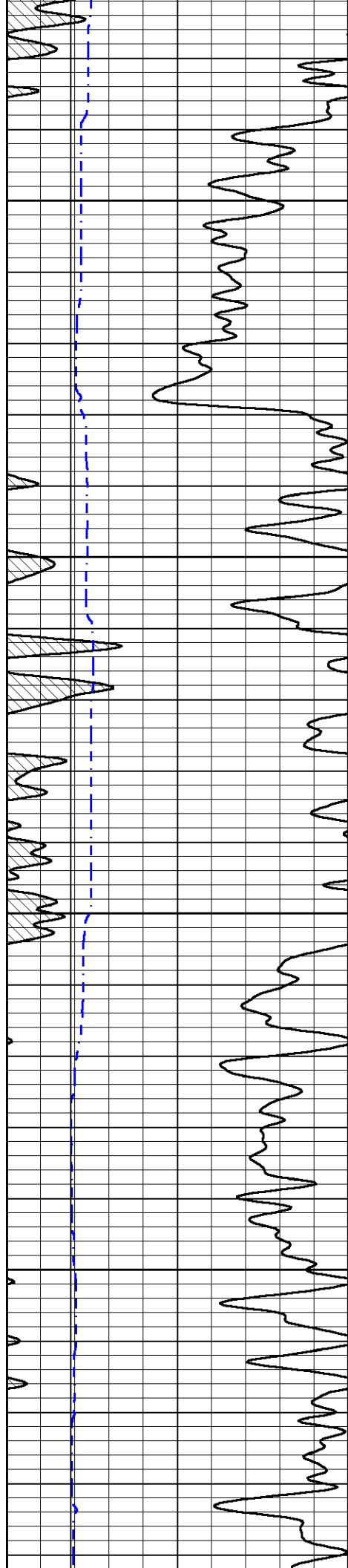


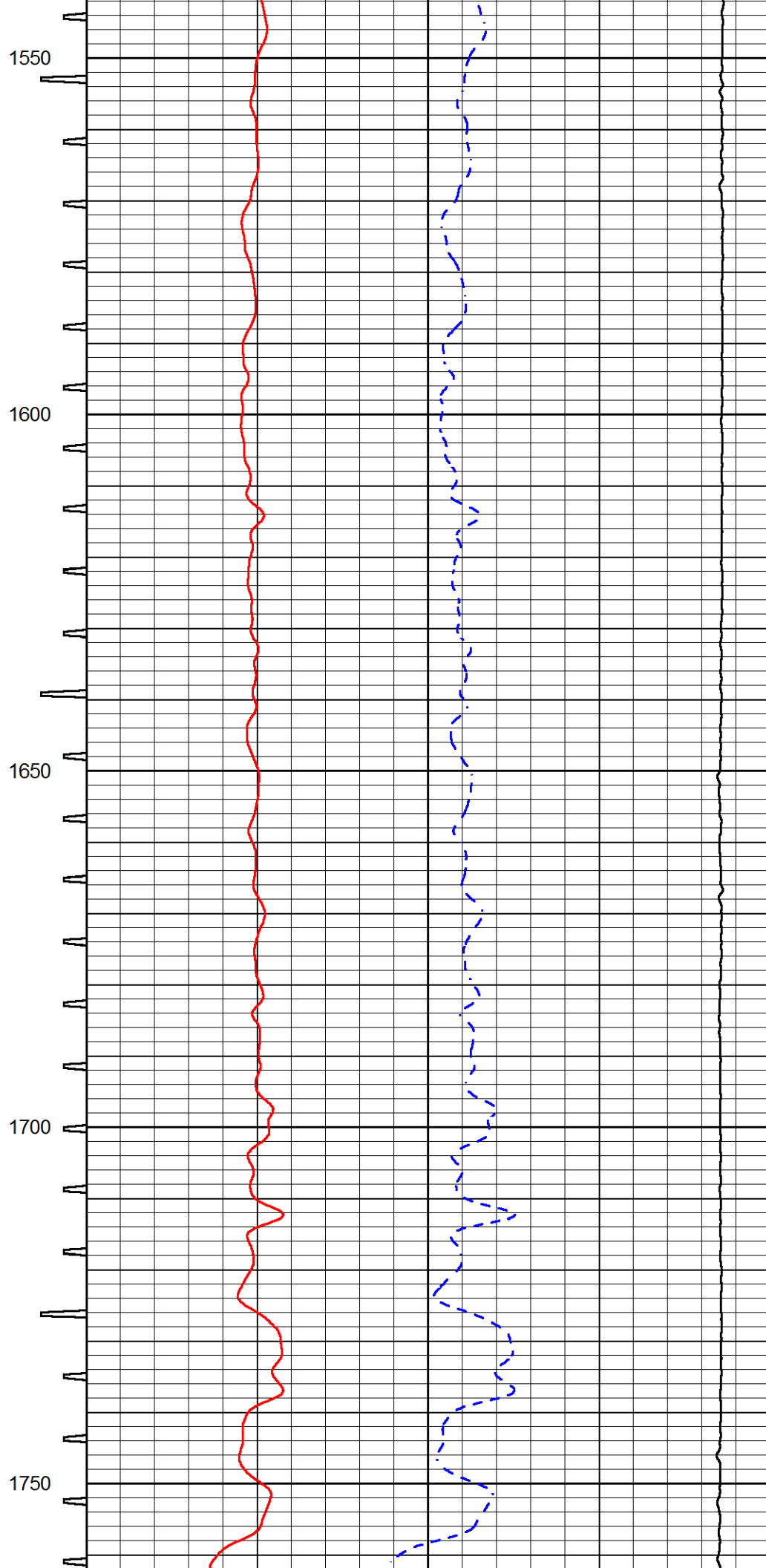
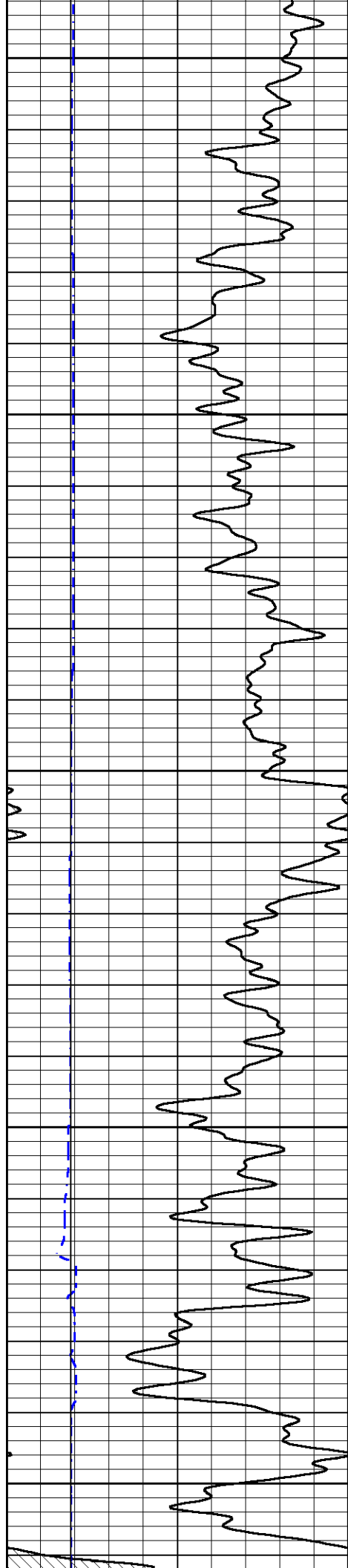


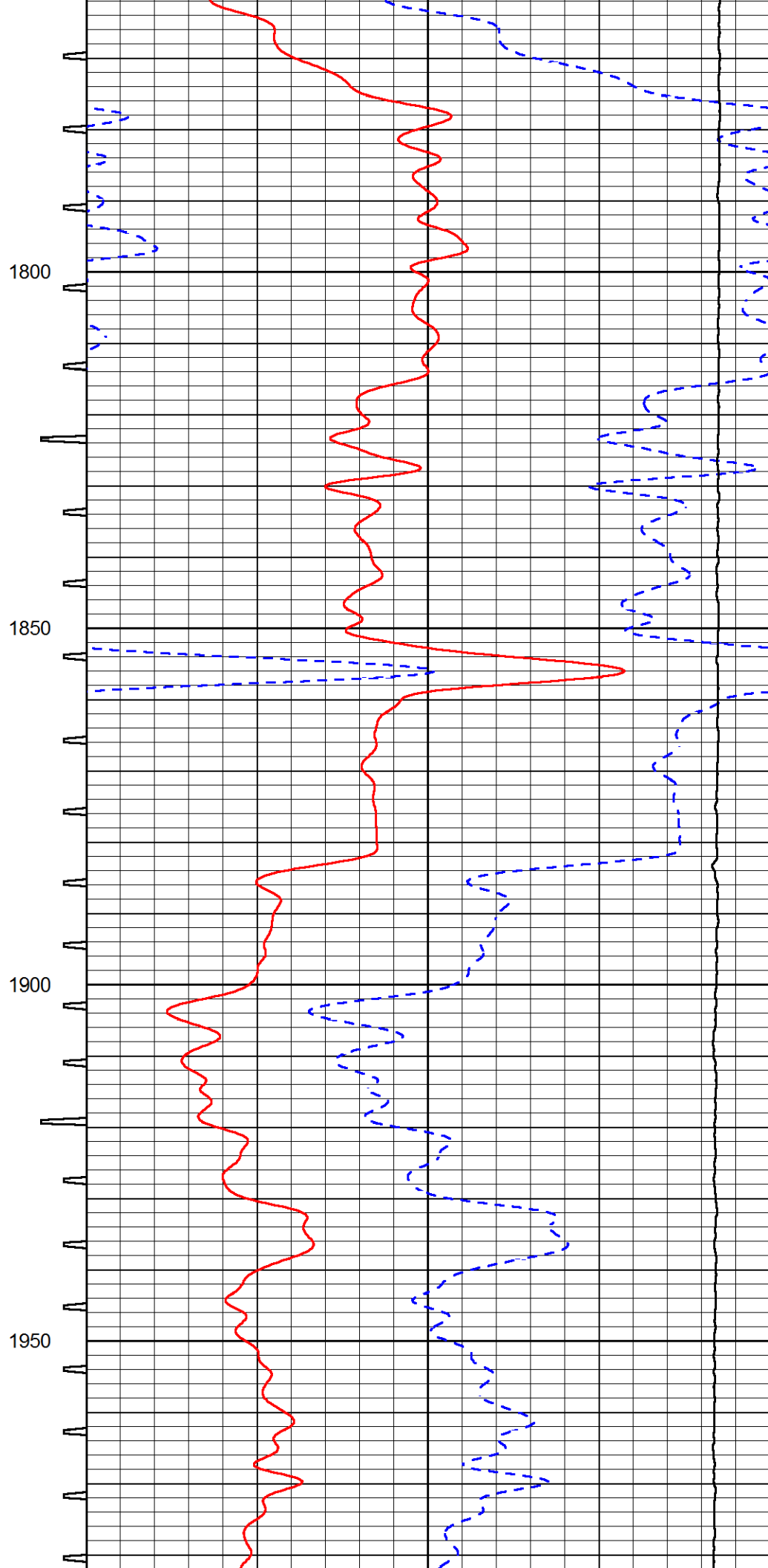
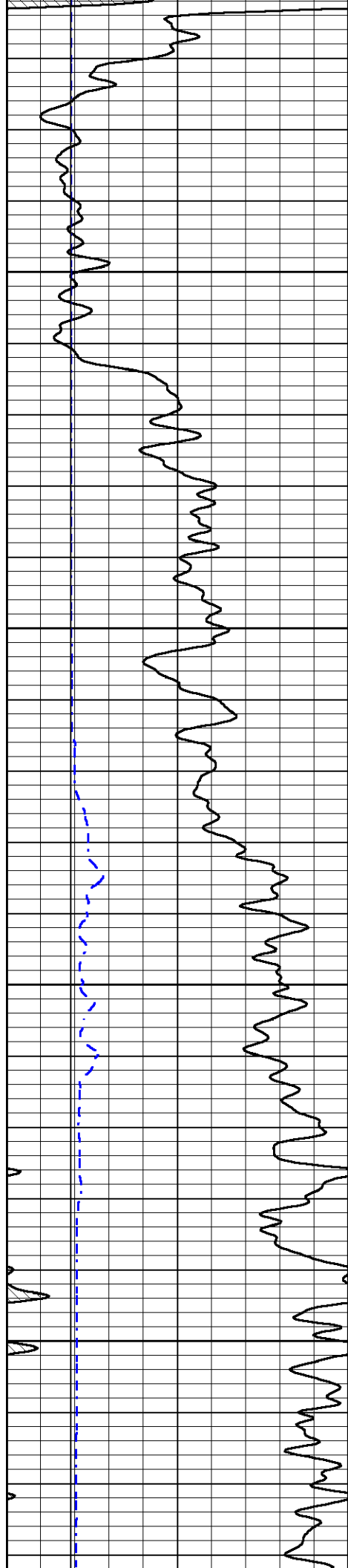


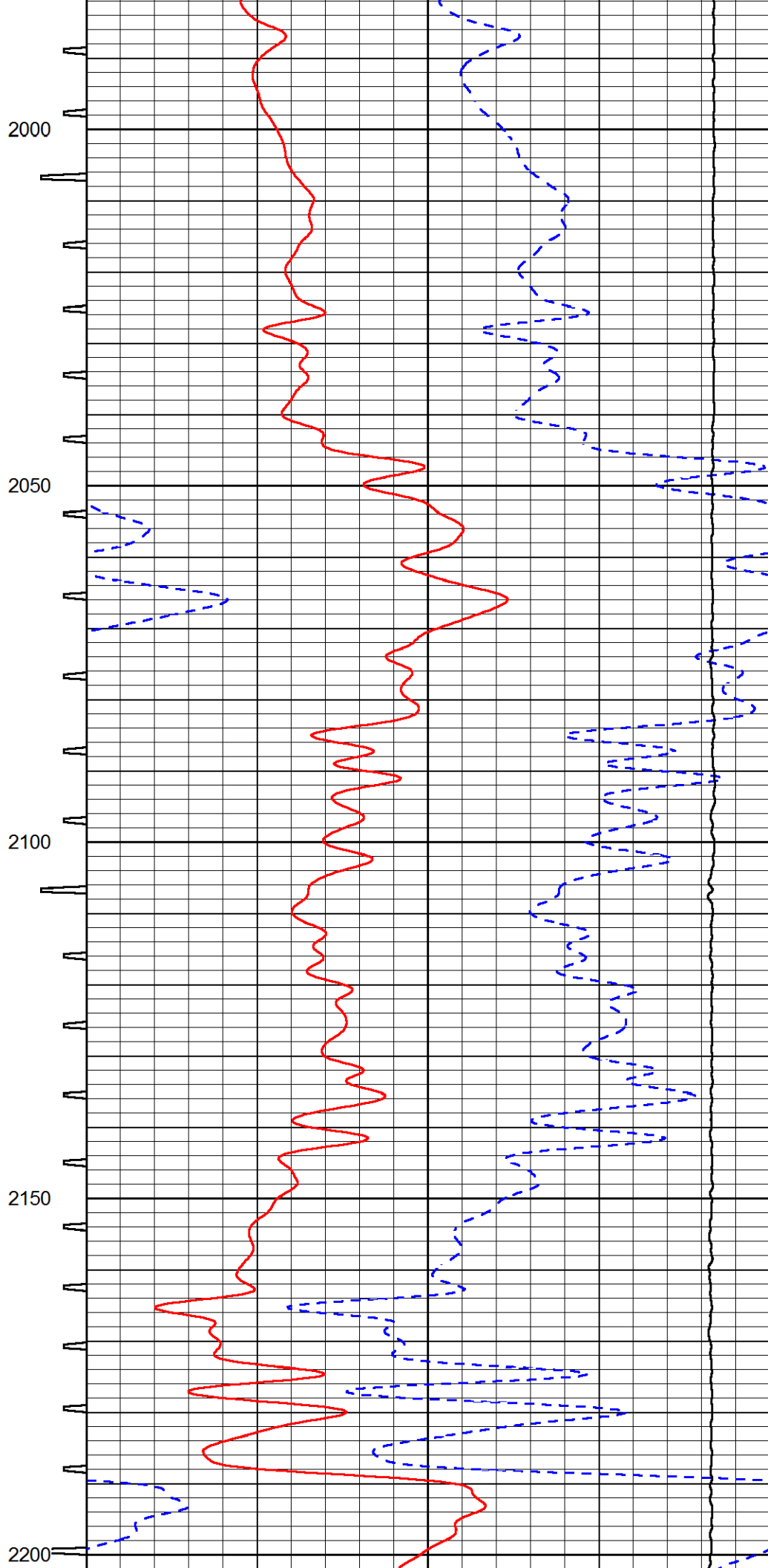
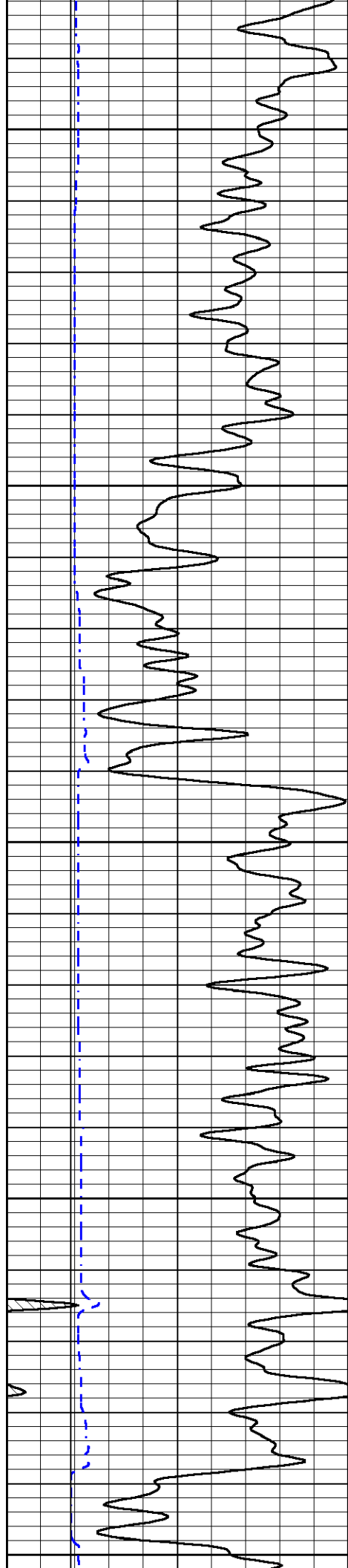


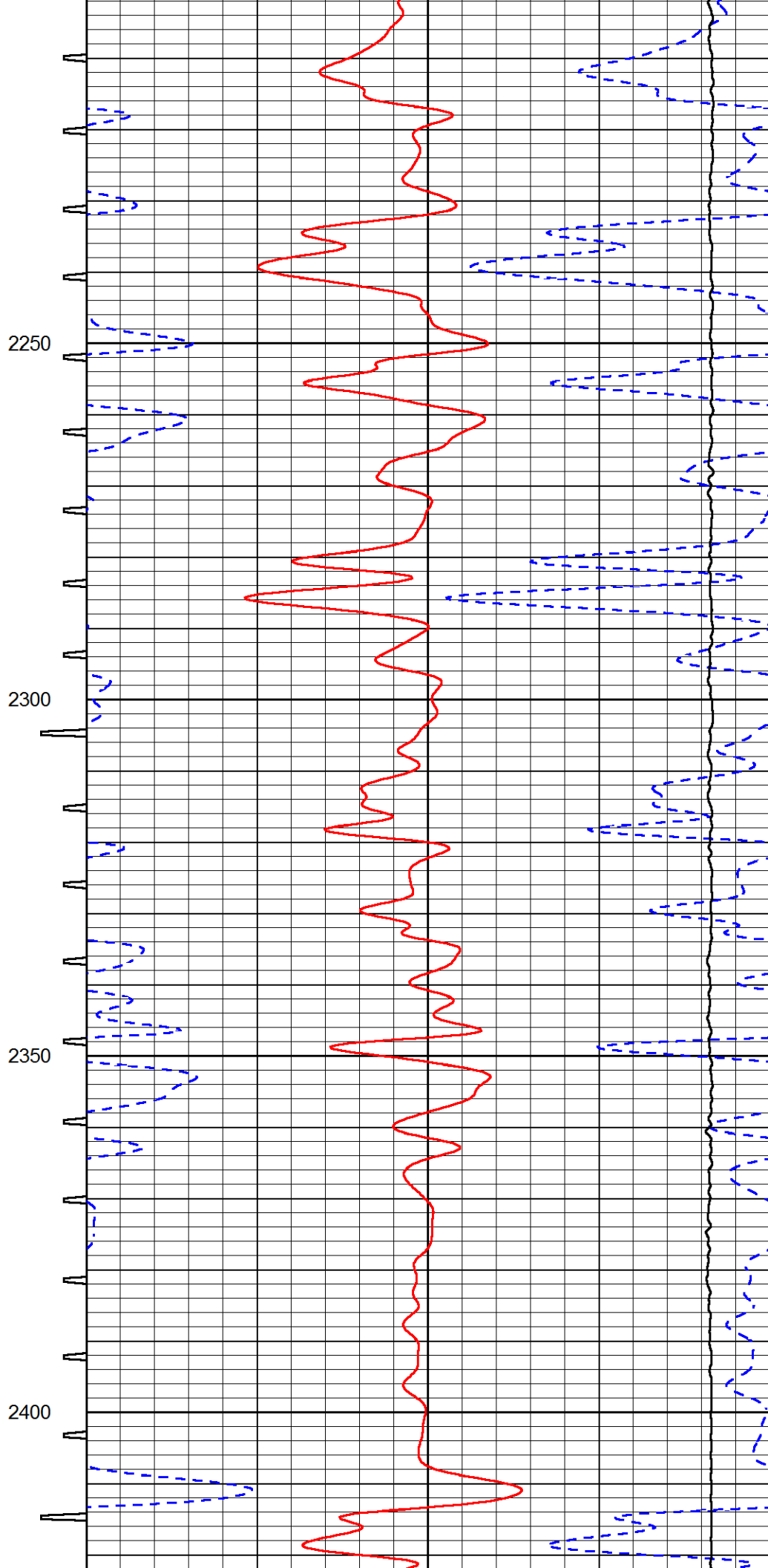
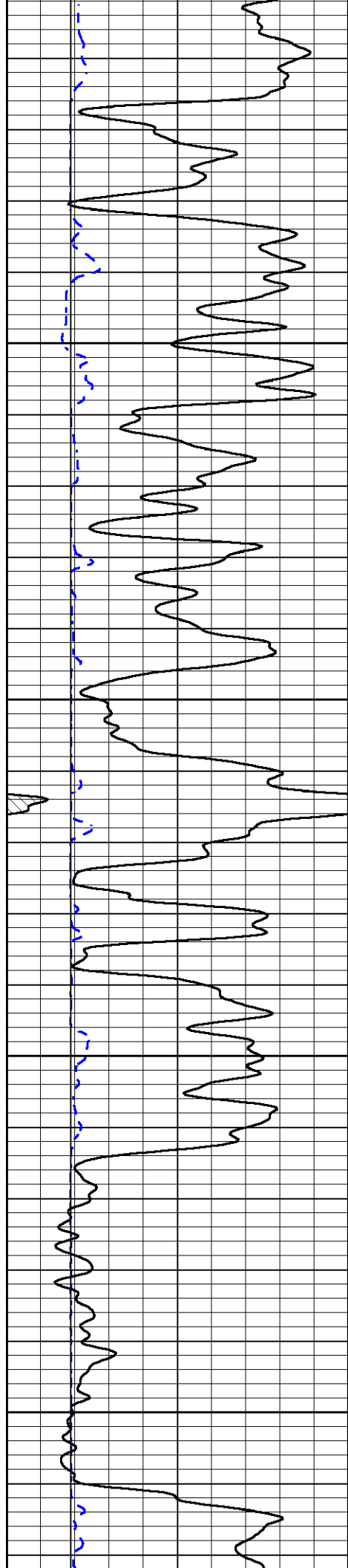


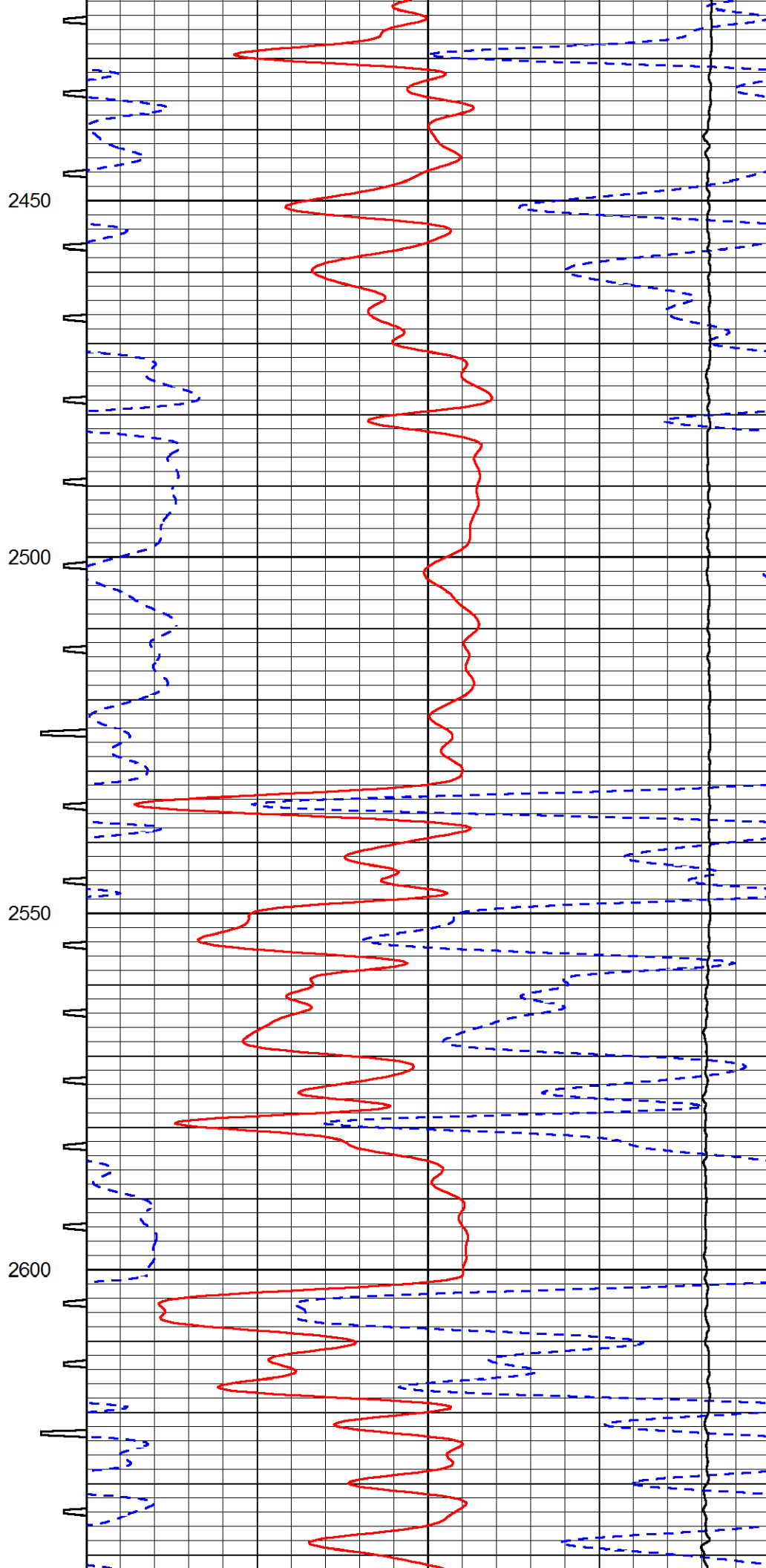
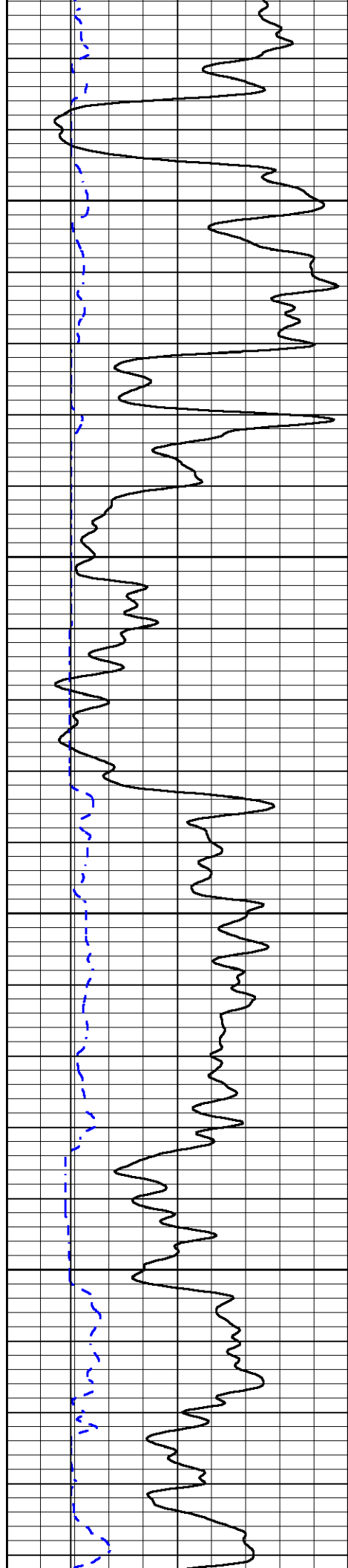


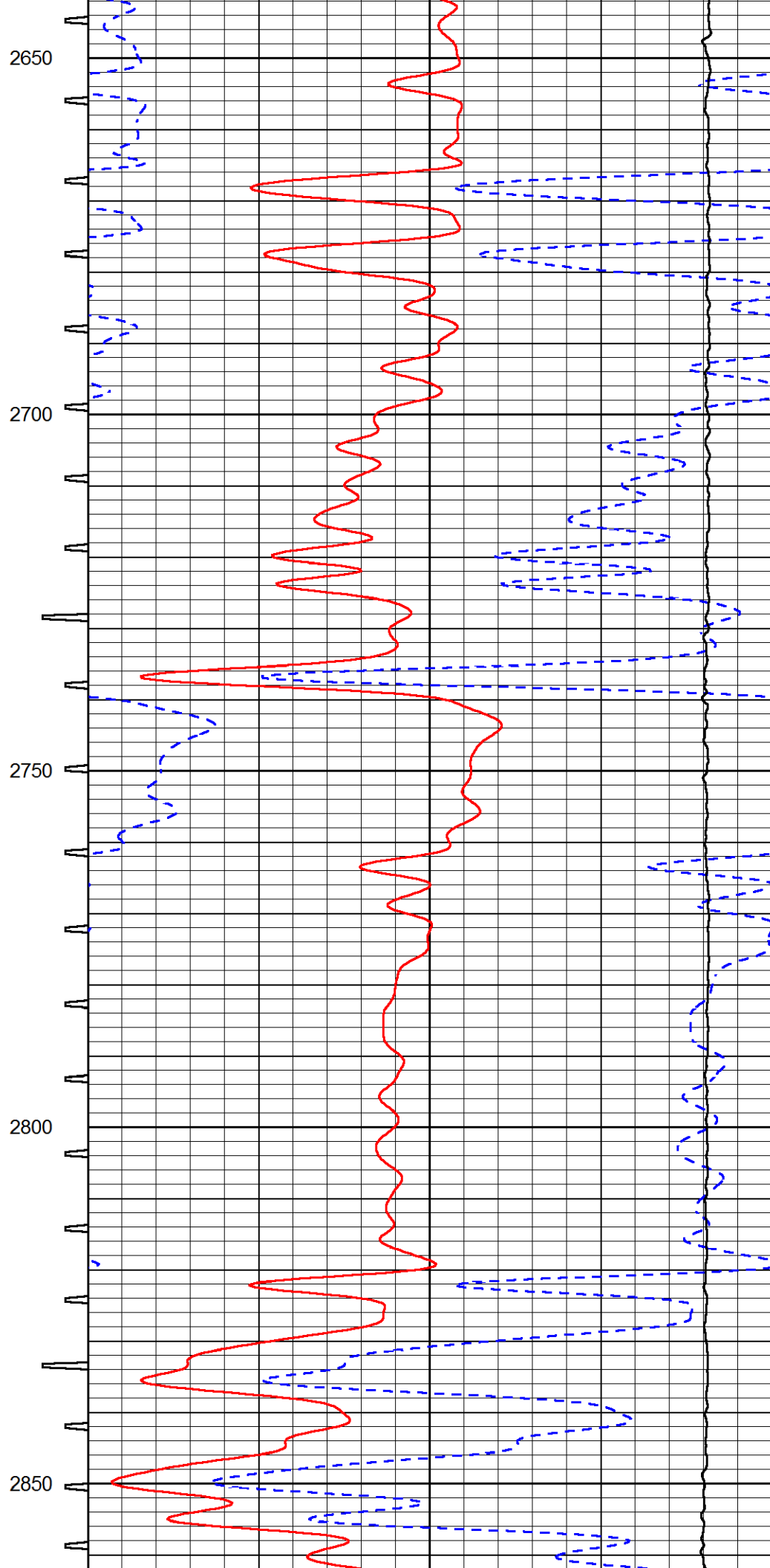
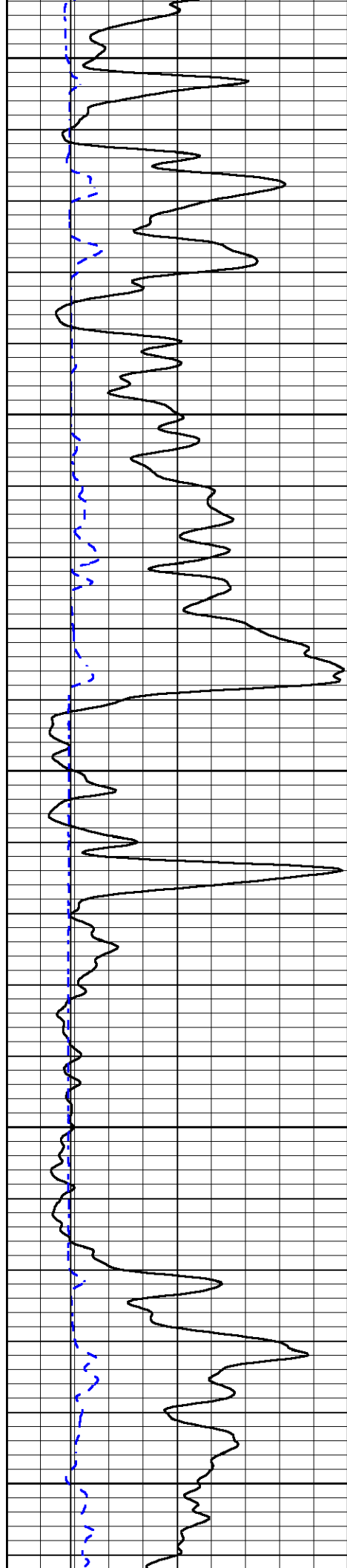


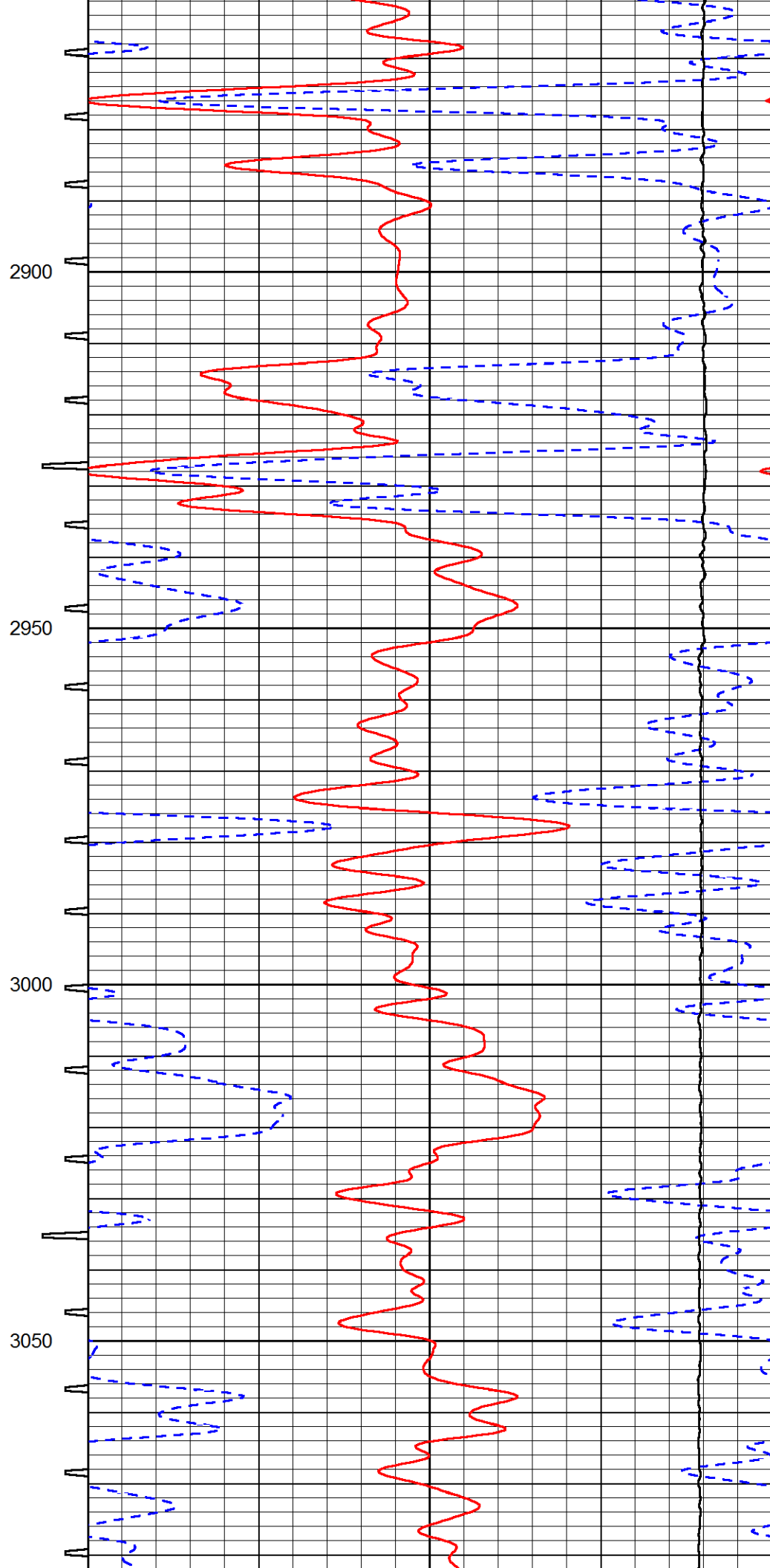
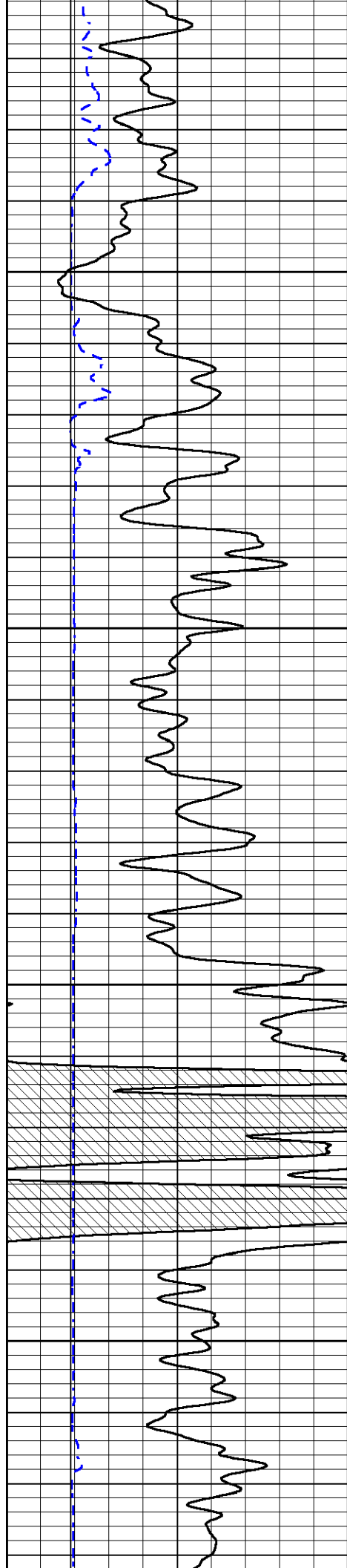


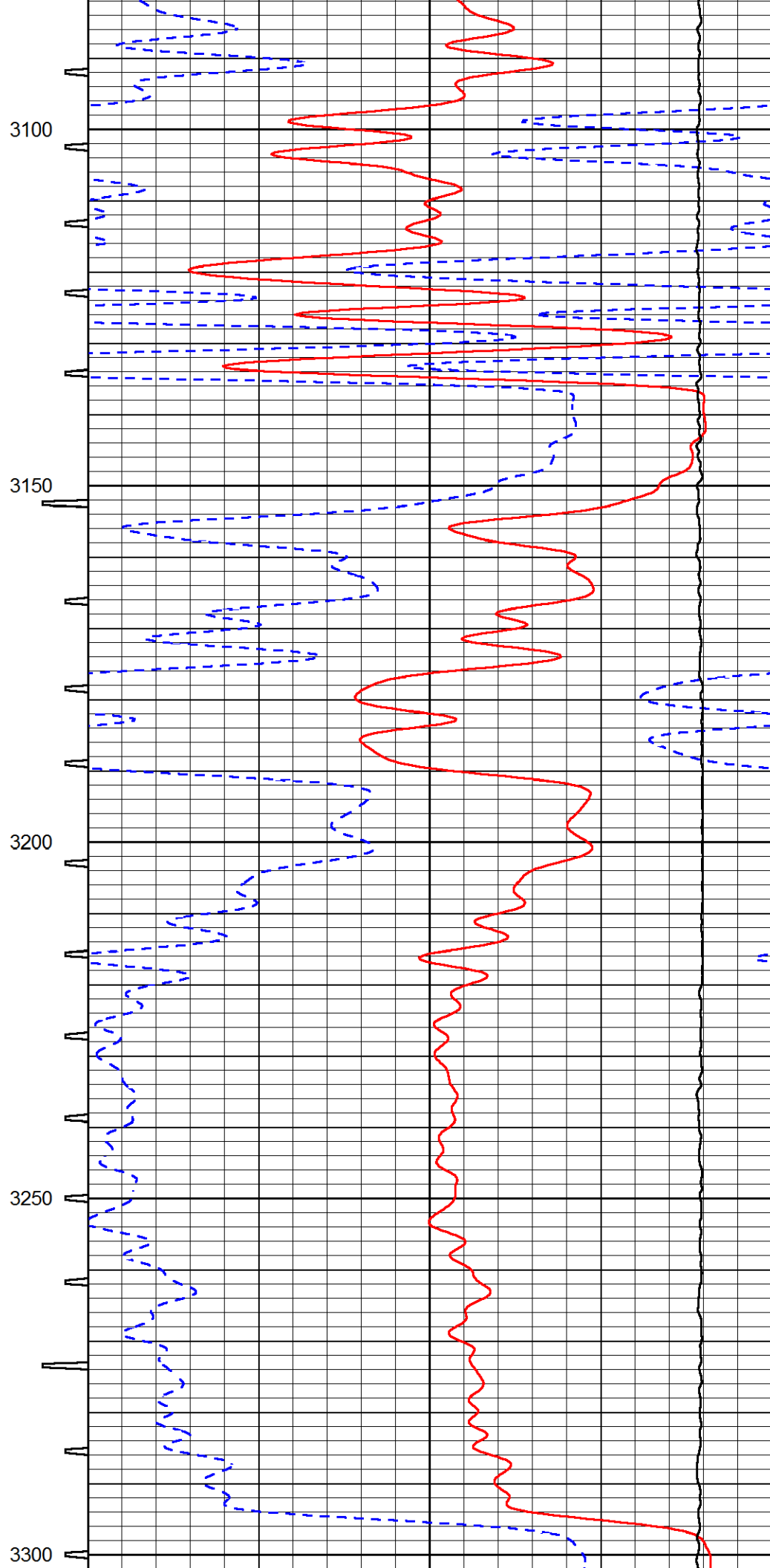
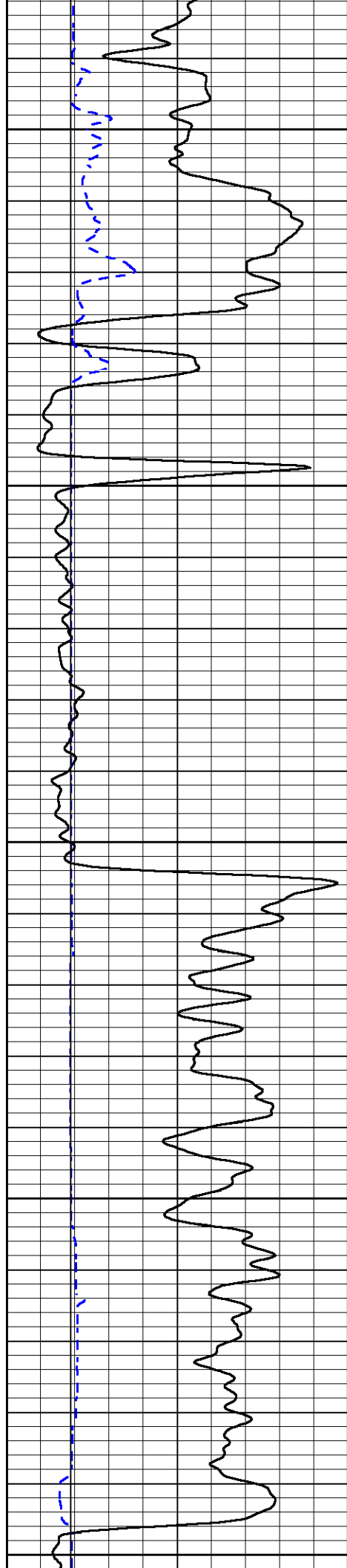


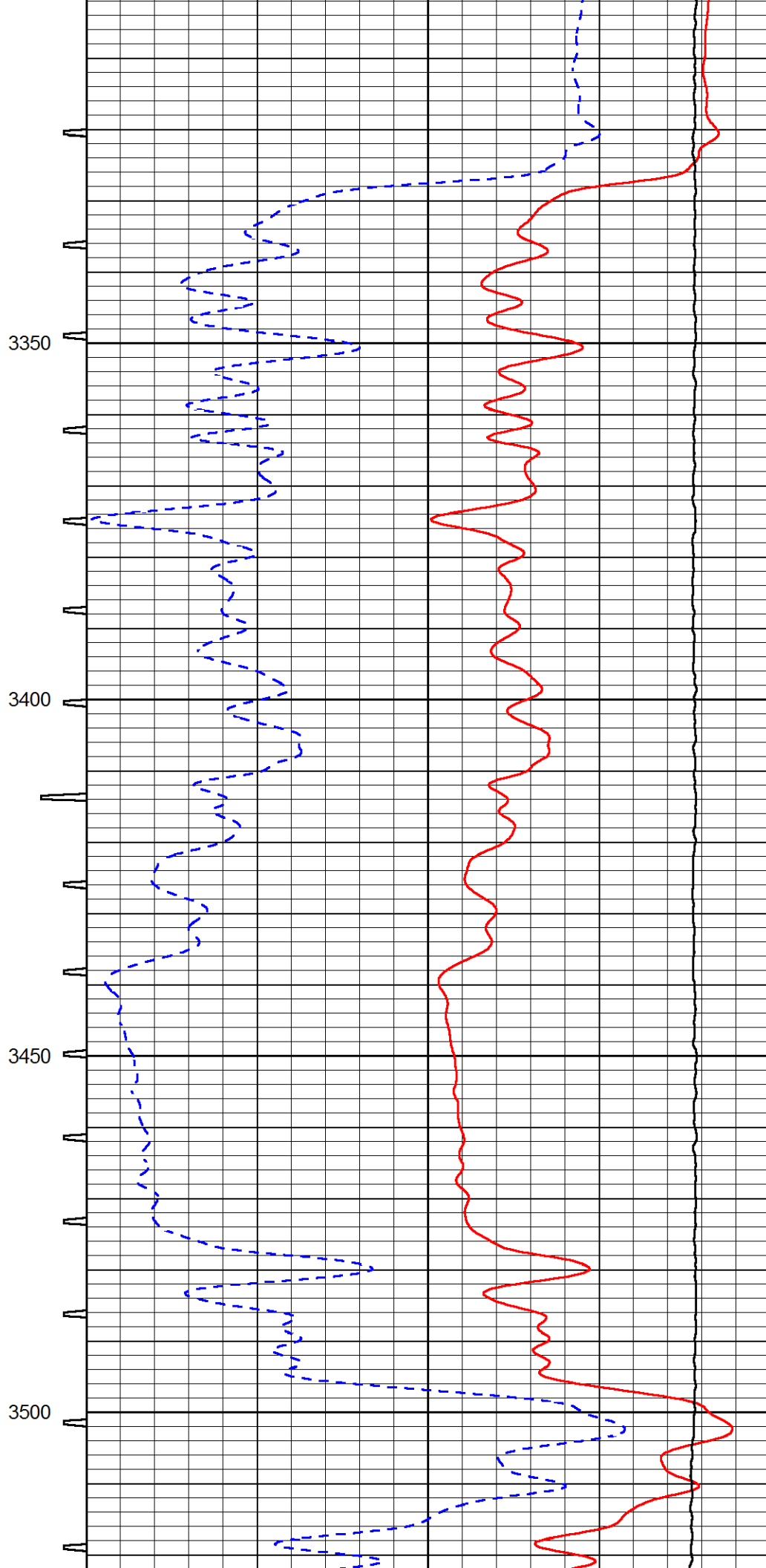
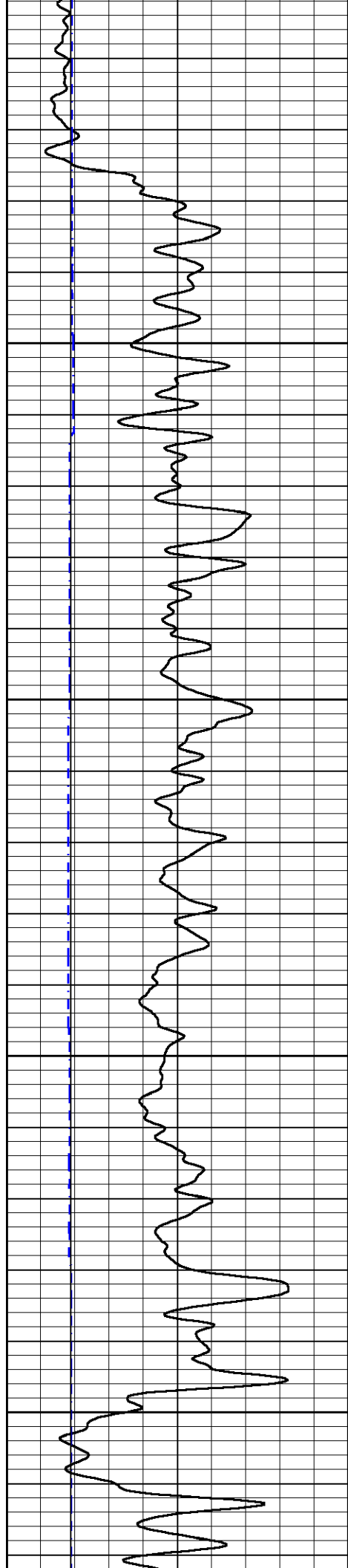


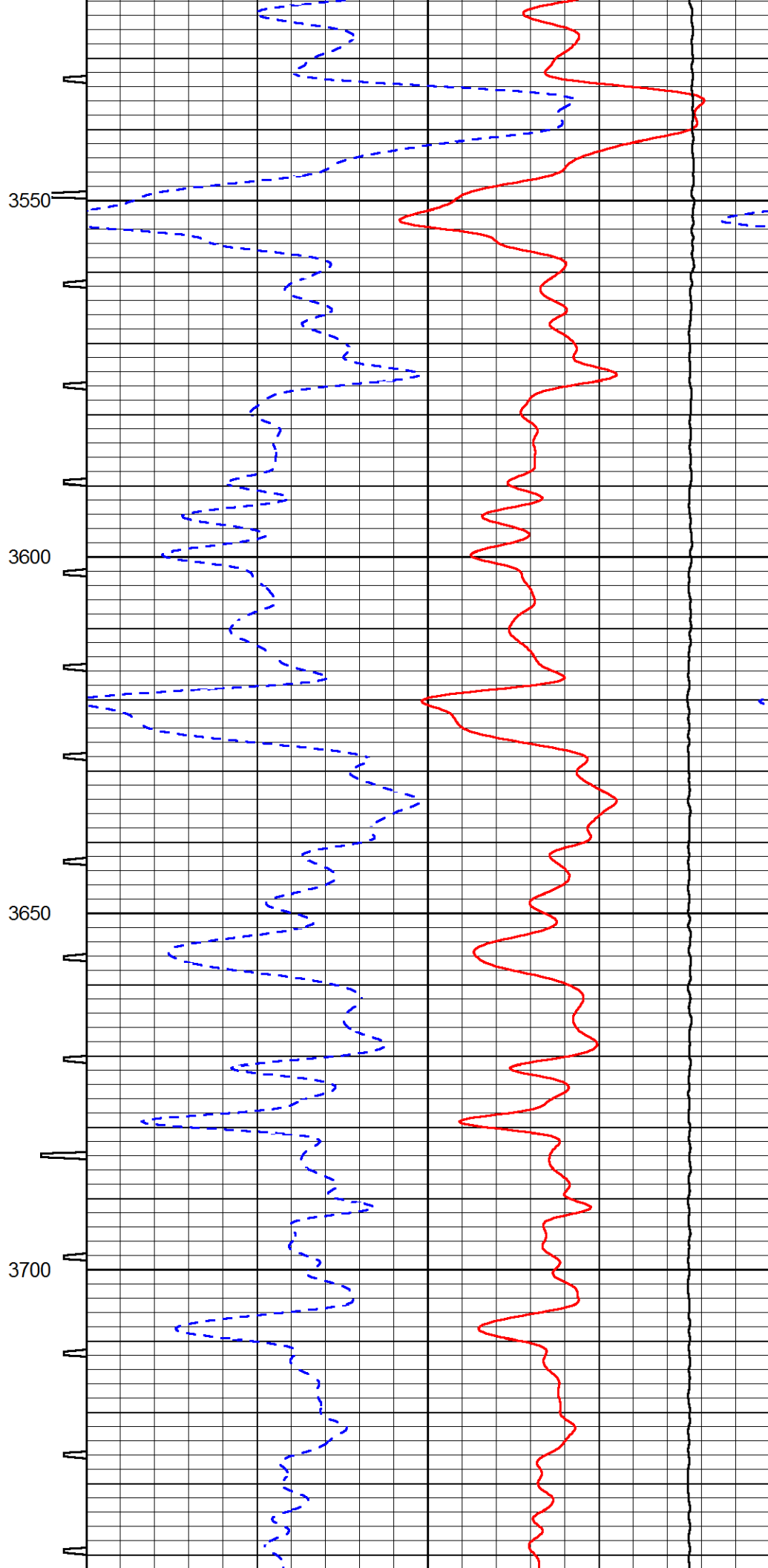
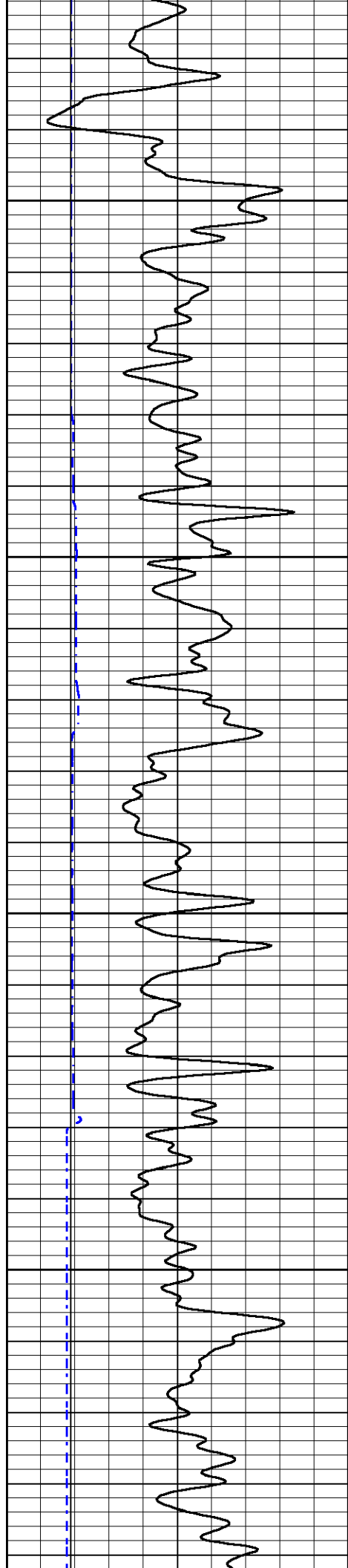


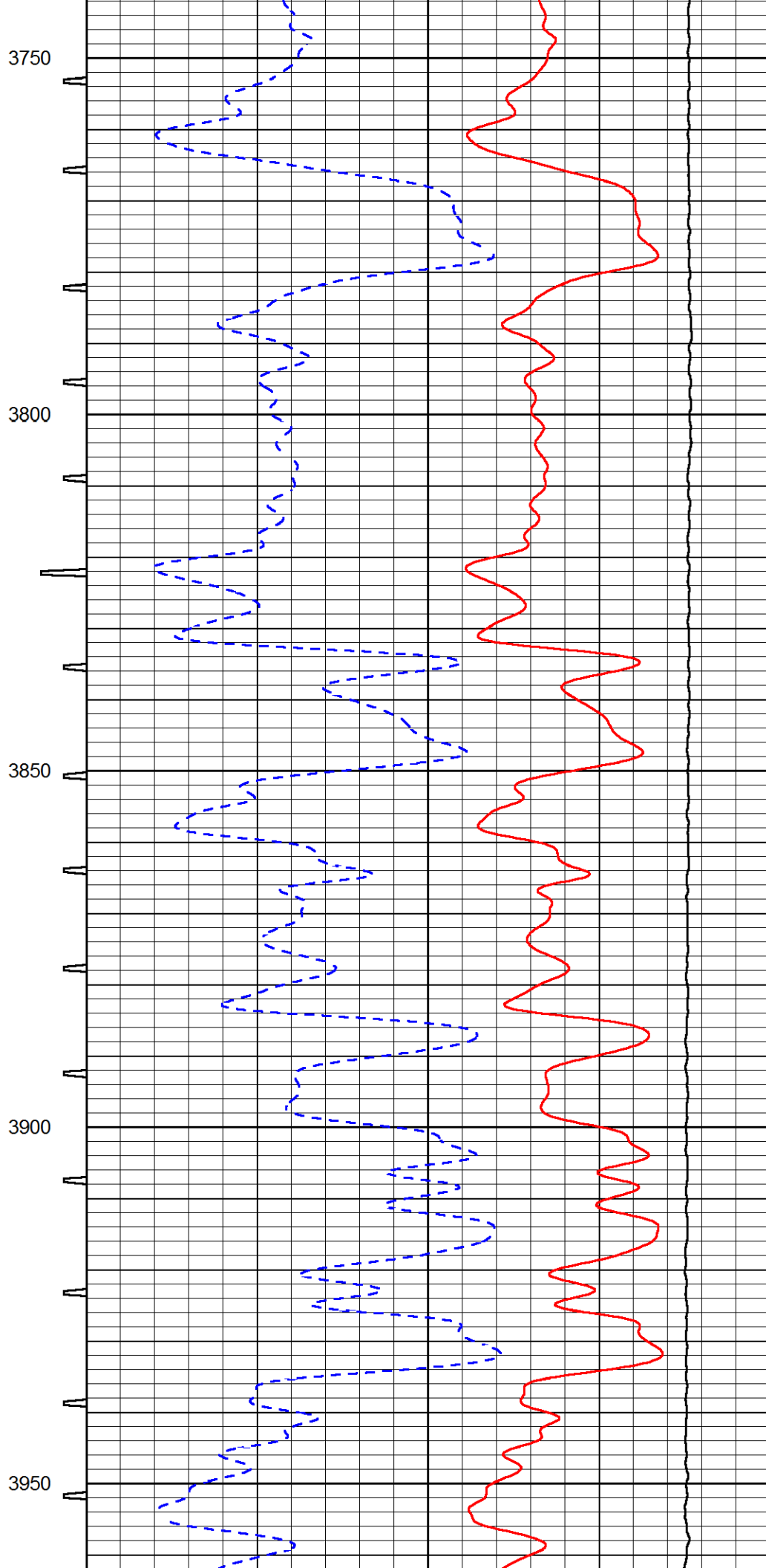
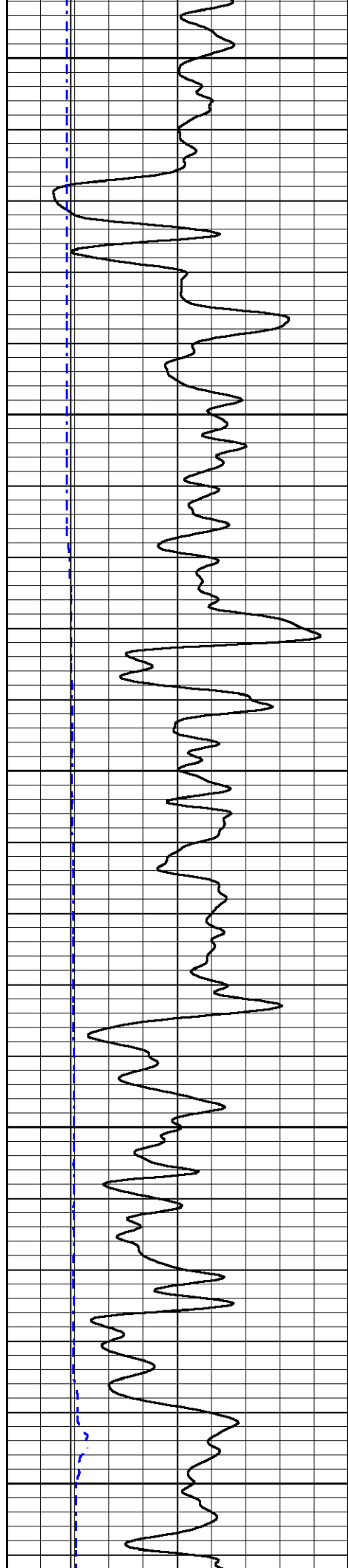


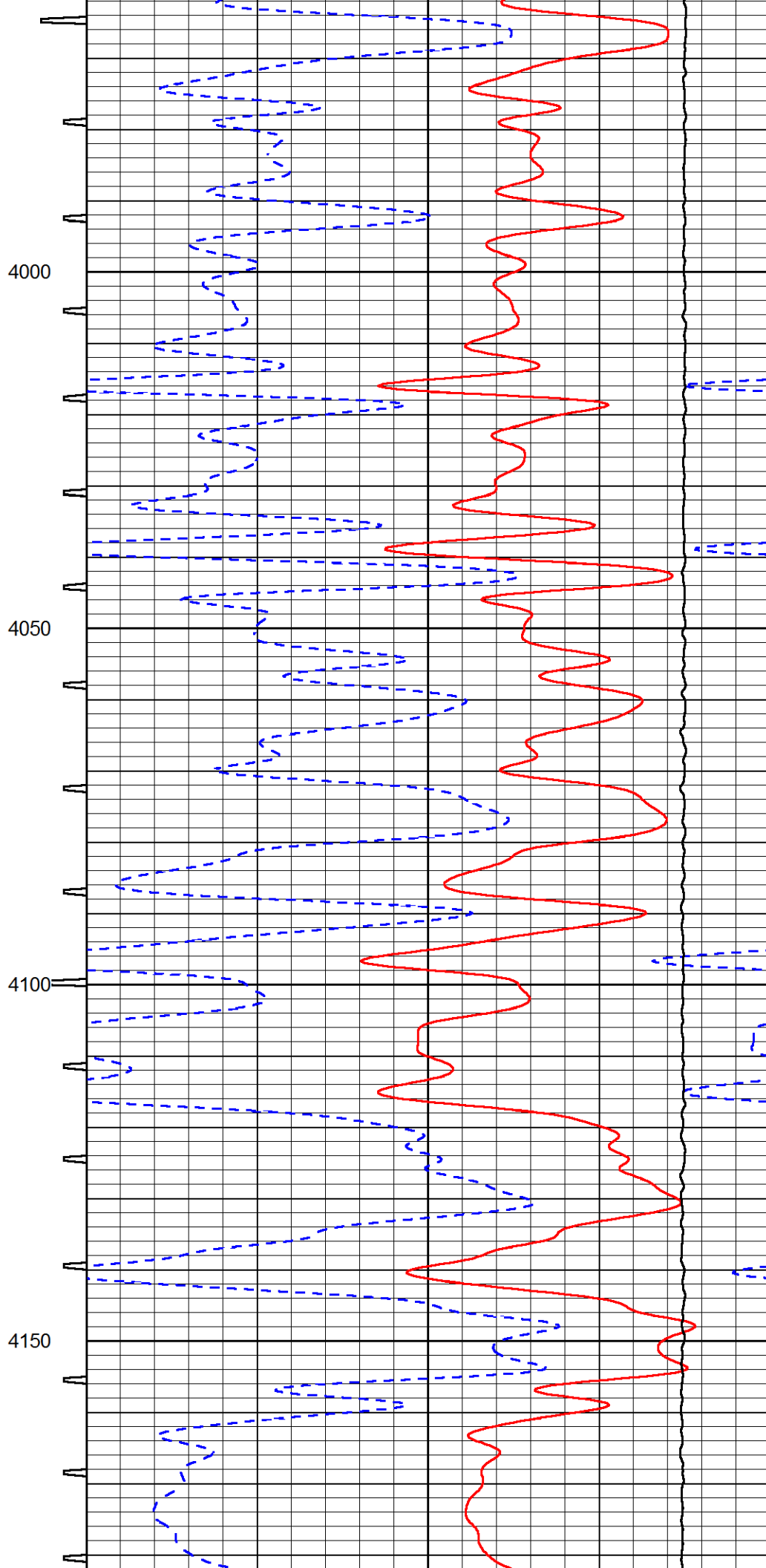
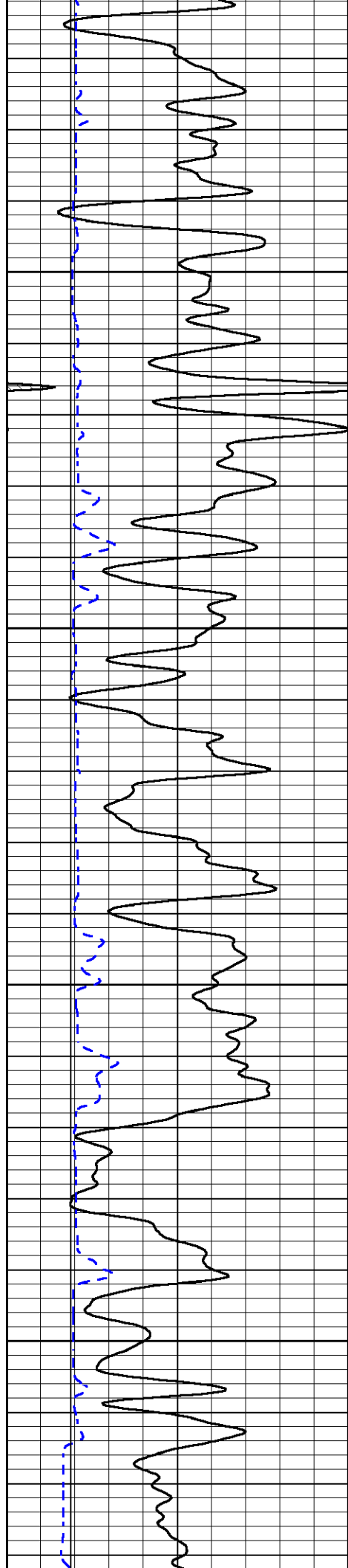


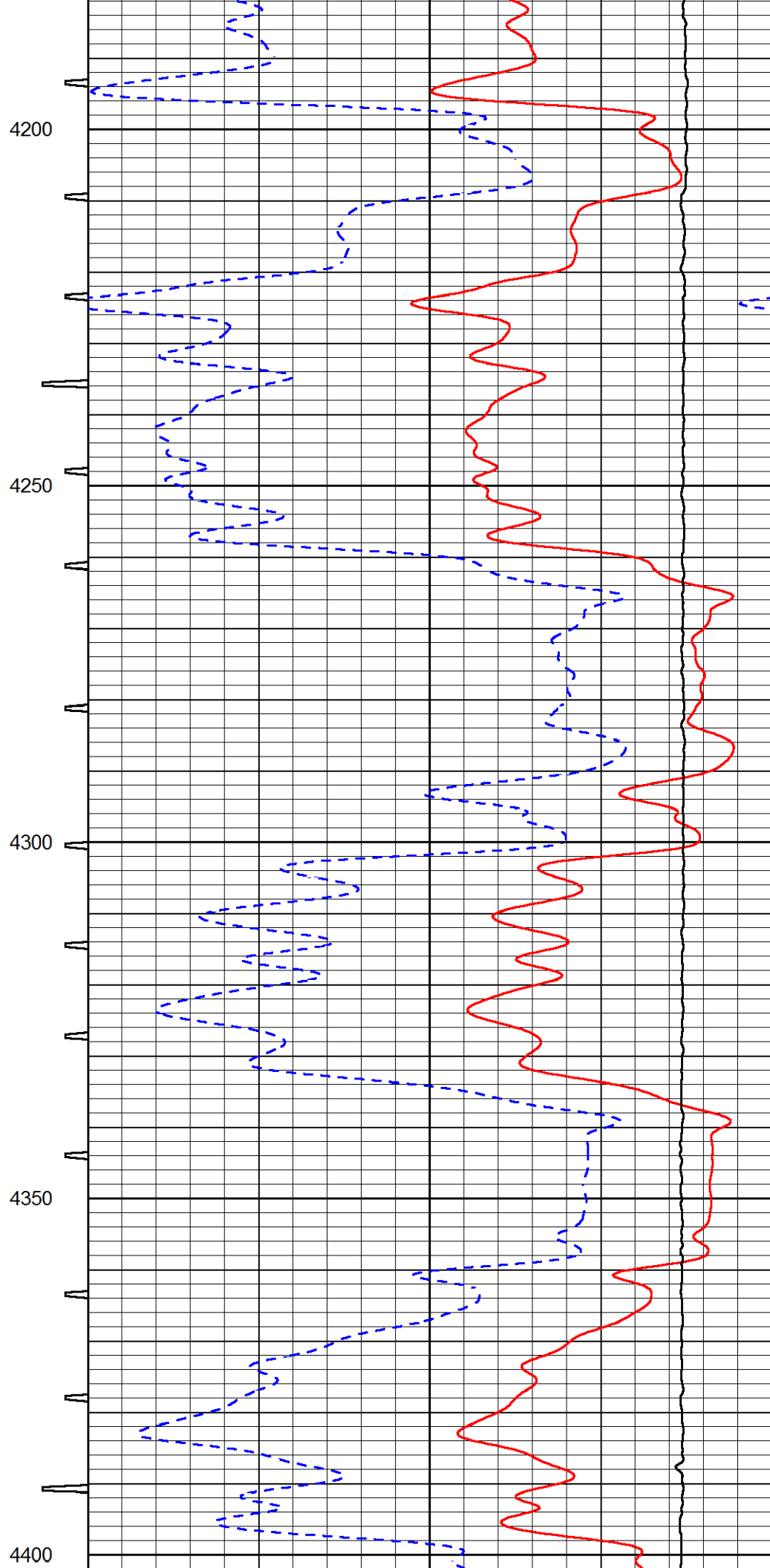
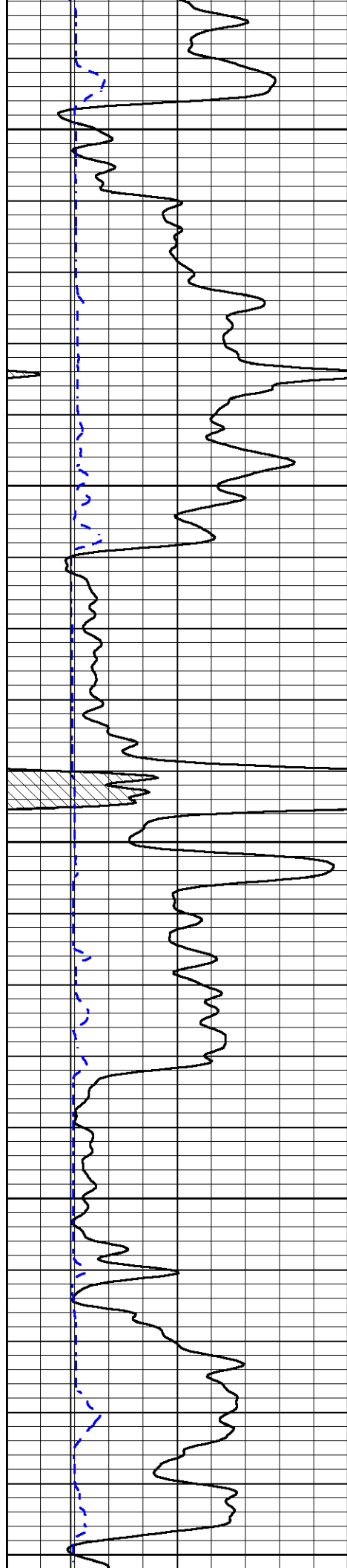


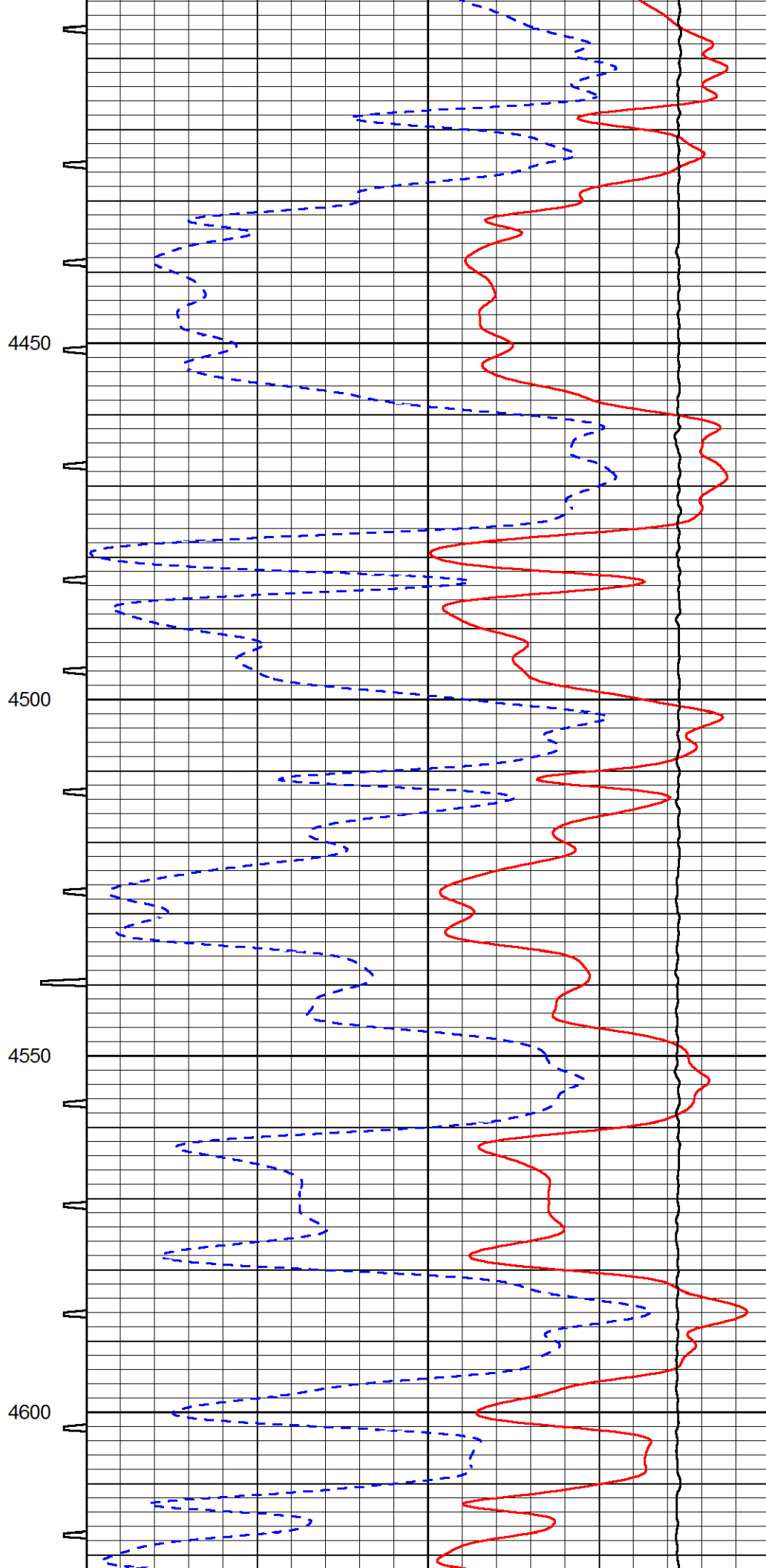
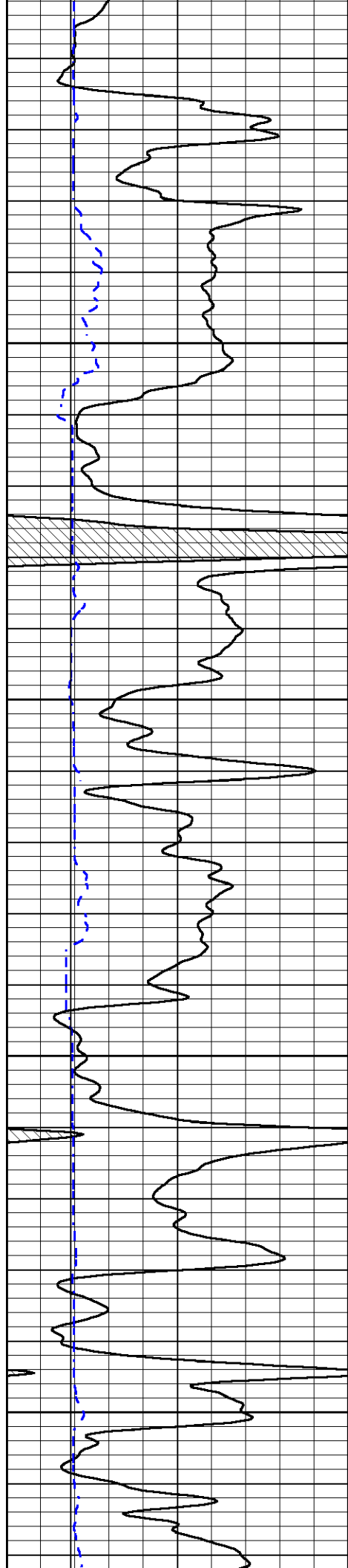


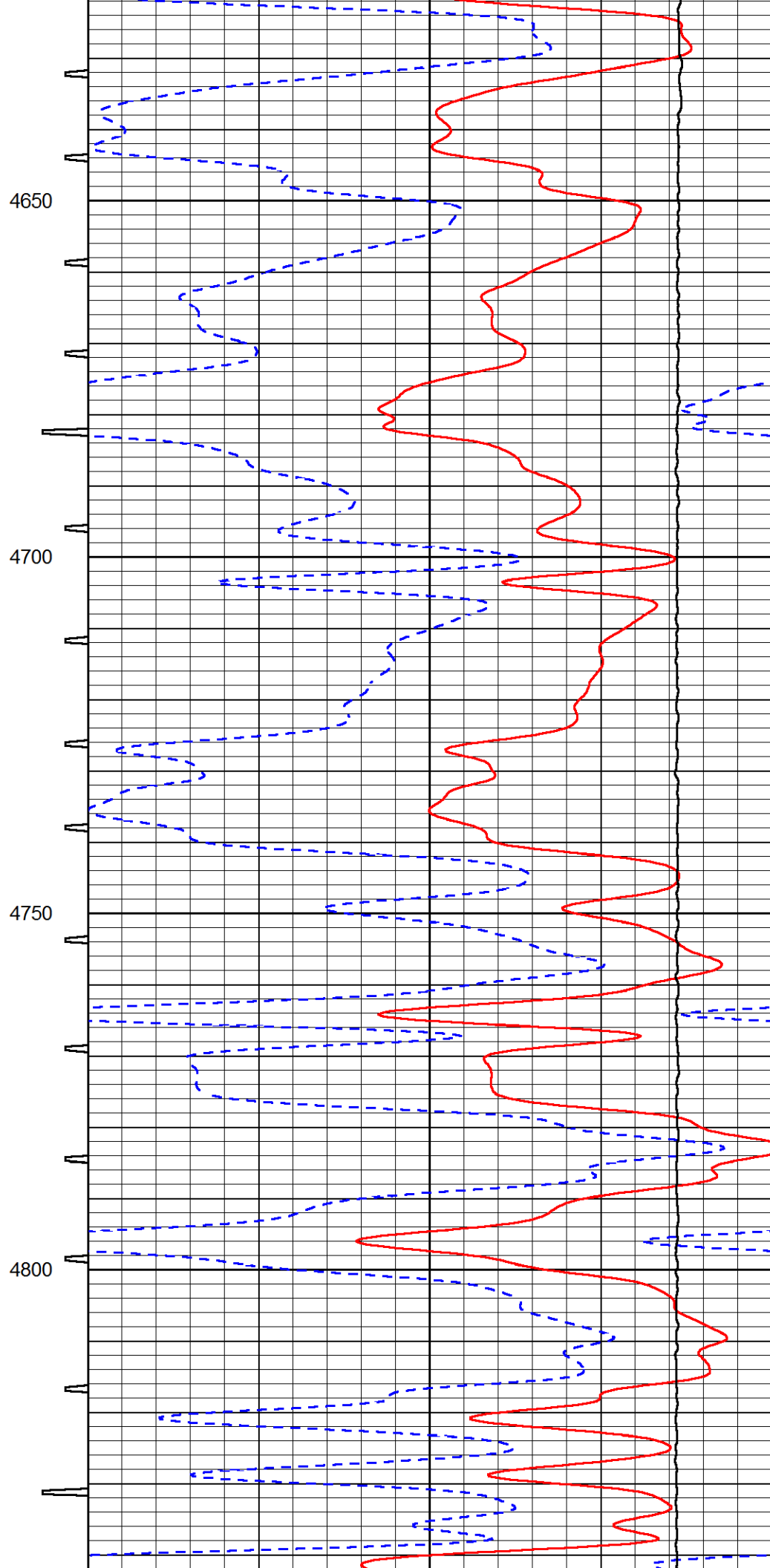
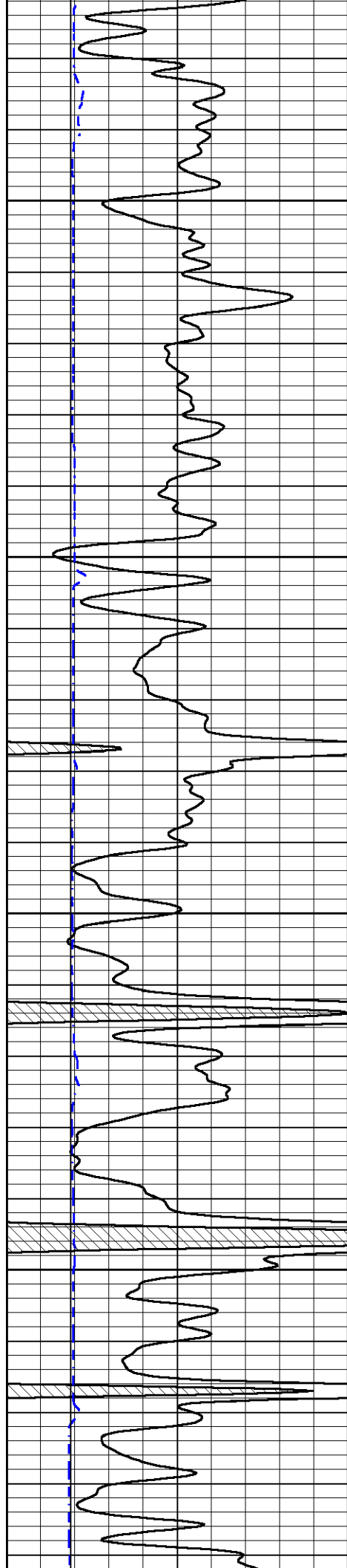


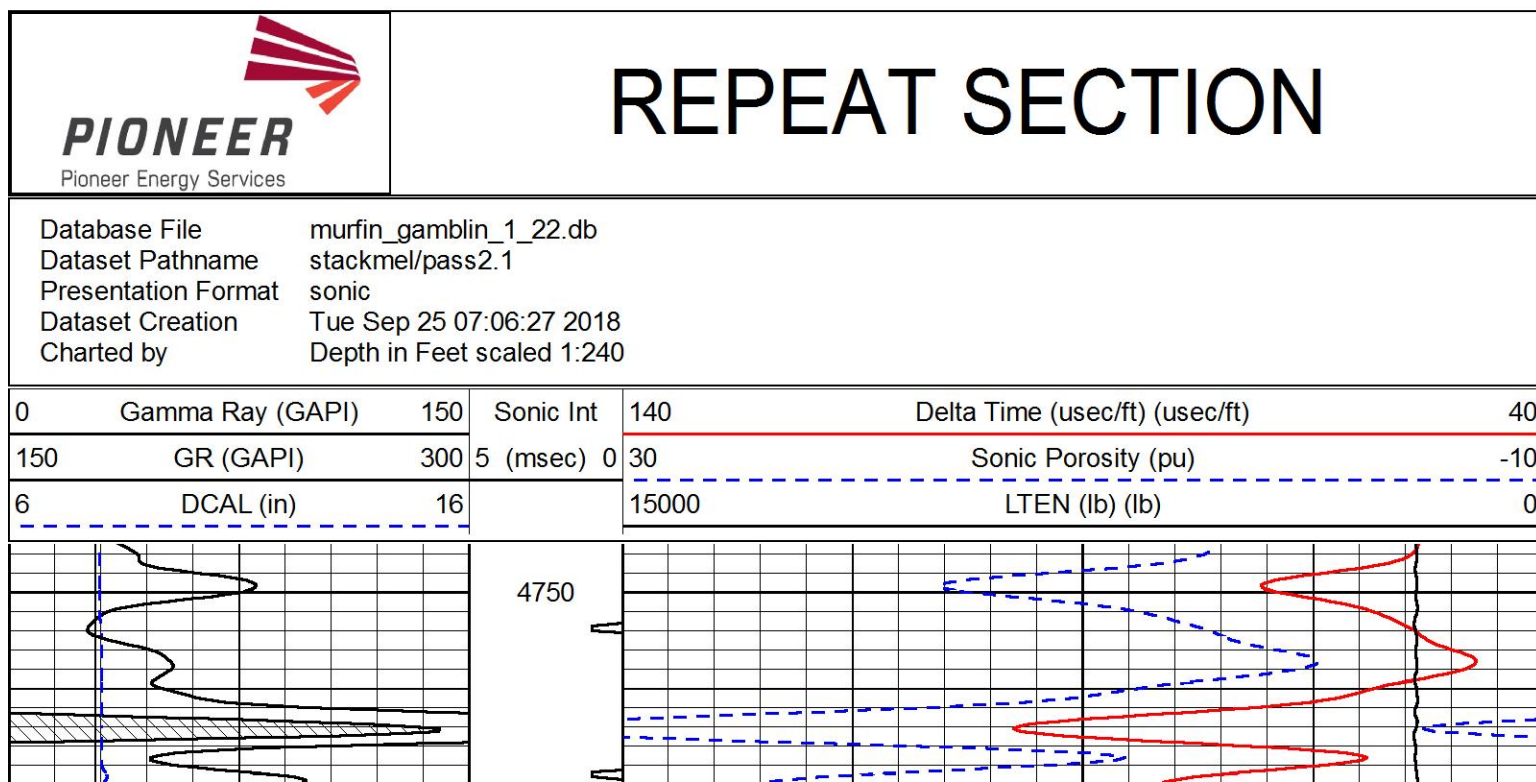
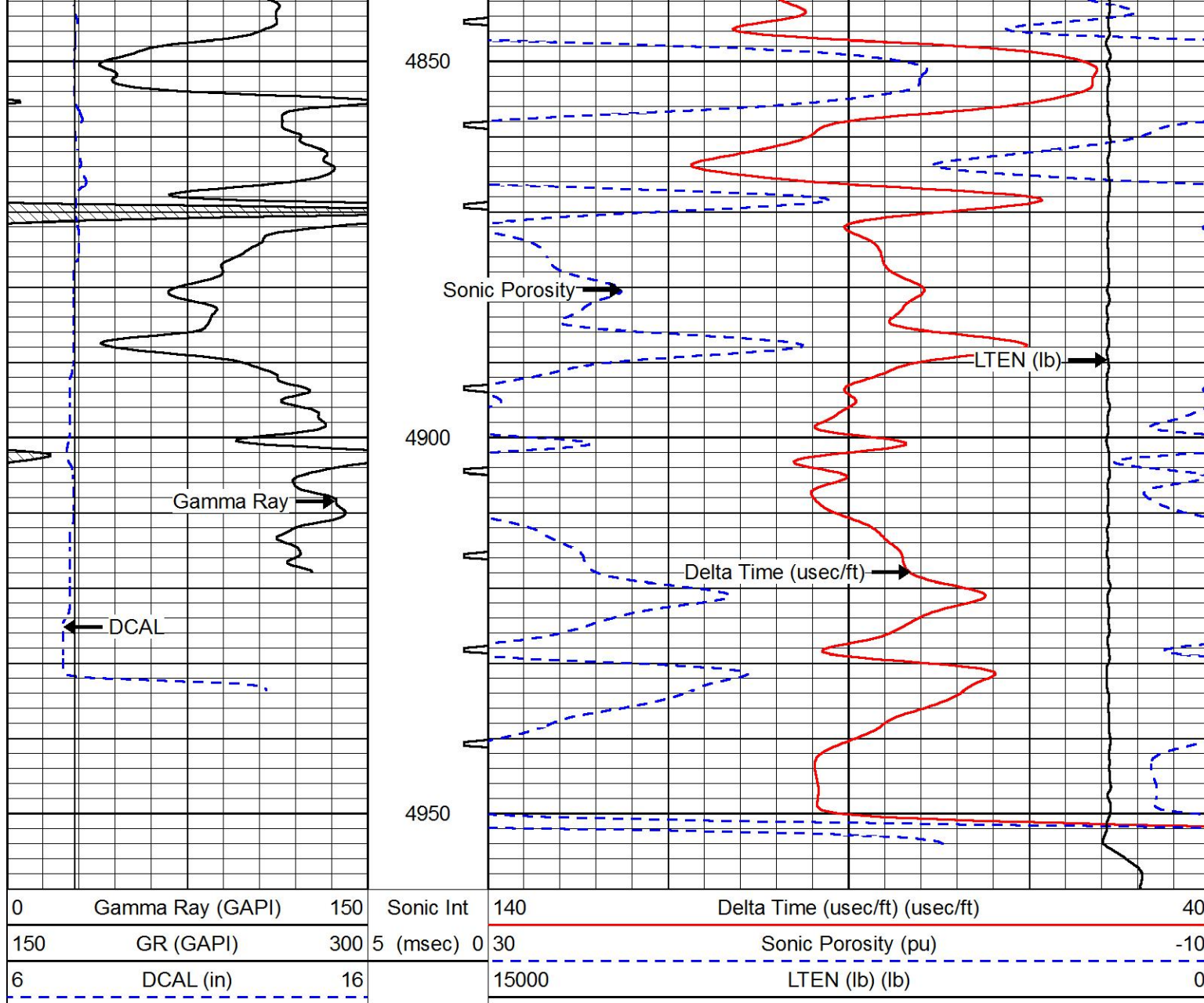


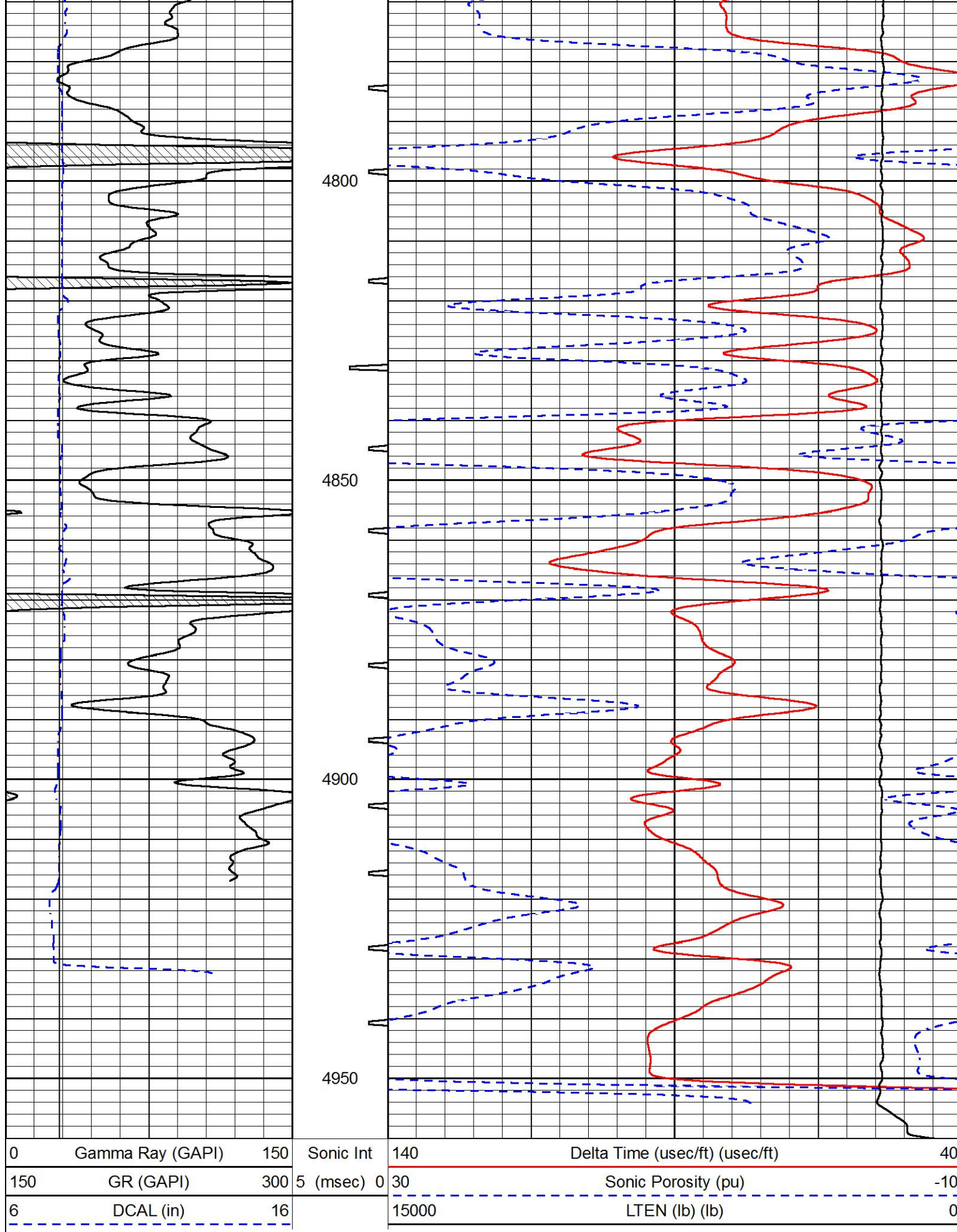












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