



PIONEER

Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company **CHOLLA PRODUCTION, LLC**
Well **SCHLEGEL # 1-4**
Field **WILDCAT**
County **NESS** State **KANSAS**

Location: API #: 15-135-26054-00-00

Other Services

1080' FNL & 510' FEL
SEC 4 TWP 20S RGE 25W

DIL/MEL
CNL/CDL

Permanent Datum GROUND LEVEL Elevation 2416'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2423'
D.F. N/A
G.L. 2416'

Date 7/10/2019

Run Number TWO

Type Log BHCS

Depth Driller 4520'

Depth Logger 4518'

Bottom Logged Interval 4507'

Top Logged Interval 250'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 6000

Density 9.5

Level FULL

Max. Rec. Temp. F 121 DEG/F

Operating Rig Time 4 HOURS

Equipment -- Location P-108 HAYS

Recorded By J. HENRICKSON

Witnessed By CLAYTON ERICKSON

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	260'	8.625"	23#	0	260'
TWO	7.875"	260'	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.
NESS CITY, KANSAS
WEST TO J ROAD, 8 SOUTH, 1 WEST, SOUTH INTO

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

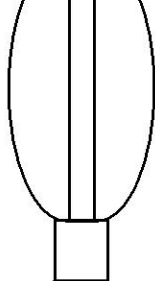
This Log Record Was Witnessed By

Primary Witness: CLAYTON ERICKSON
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 121	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 130	degF 62	Off	ft 4518

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	22.50		ML-Armadillo (Armadillo-1) Pengo micro log tool mandrel with Armadillo Electronics	5.00	3.50	100.00
	22.50					
	22.50					
WVF4 WVF1	13.50 13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	11.50 11.50					



CENT-PENGO

5.50

3.00

70.00

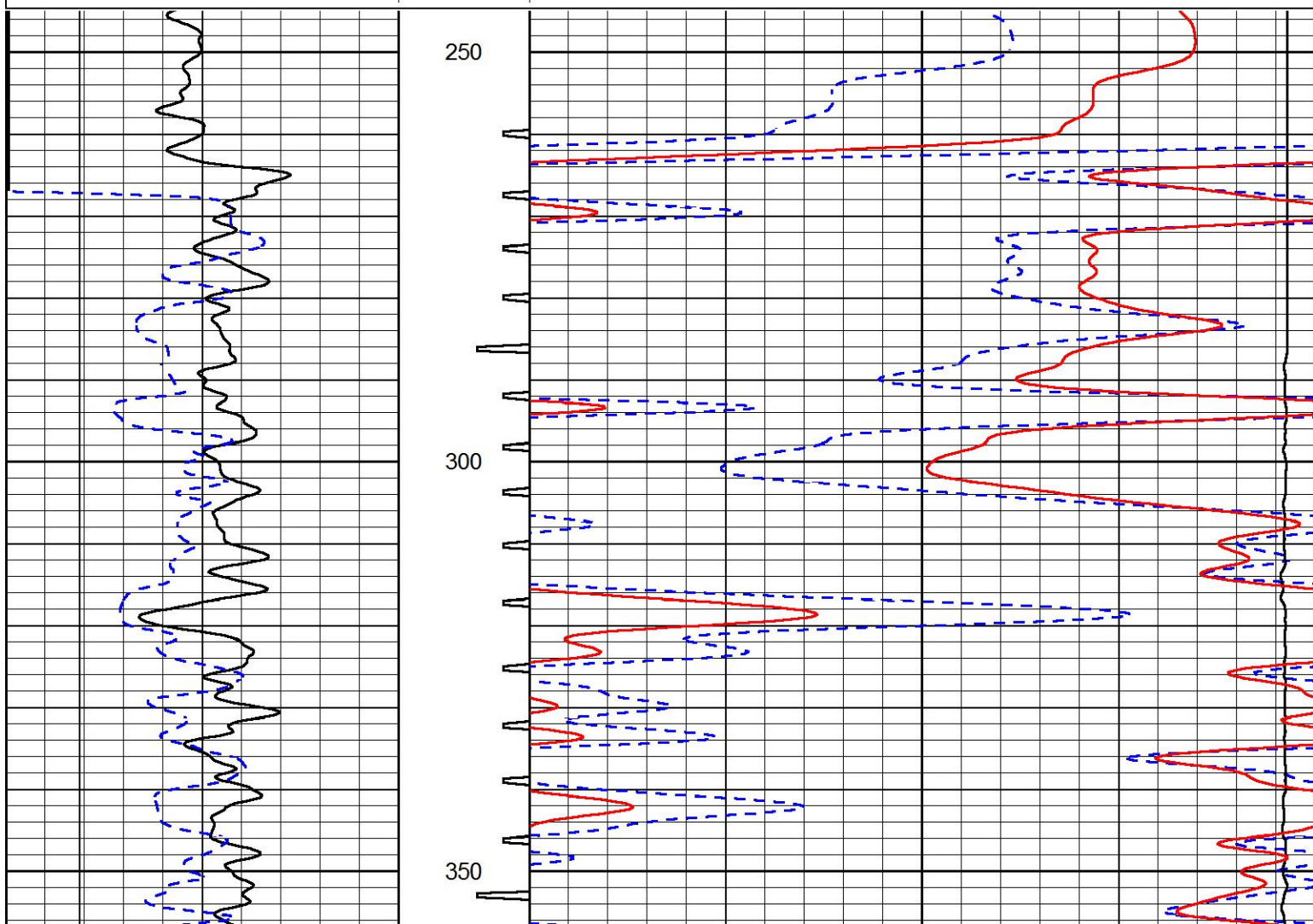
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Total length: 26.50 ft
Total weight: 470.00 lb
O.D.: 3.50 in

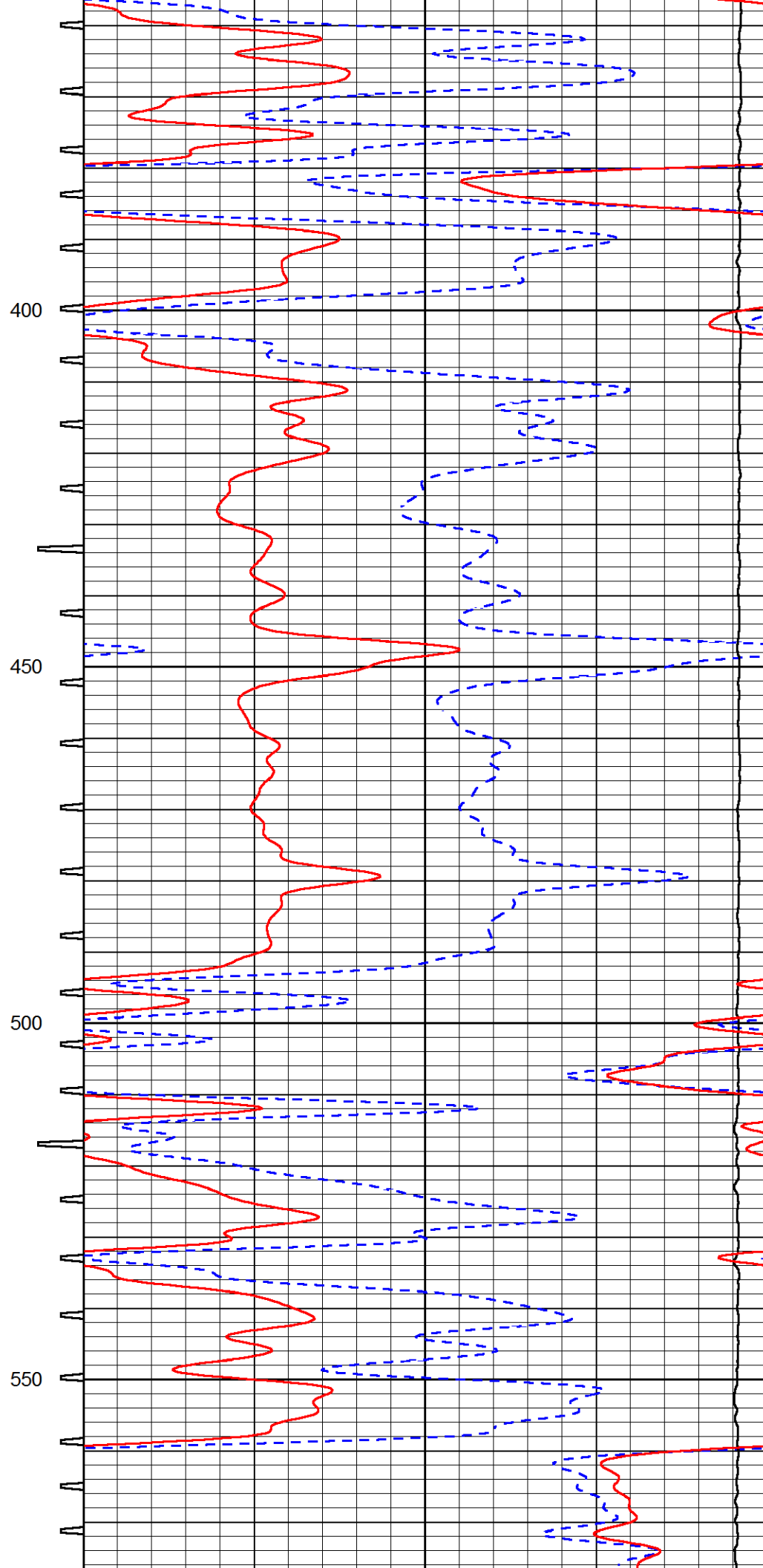
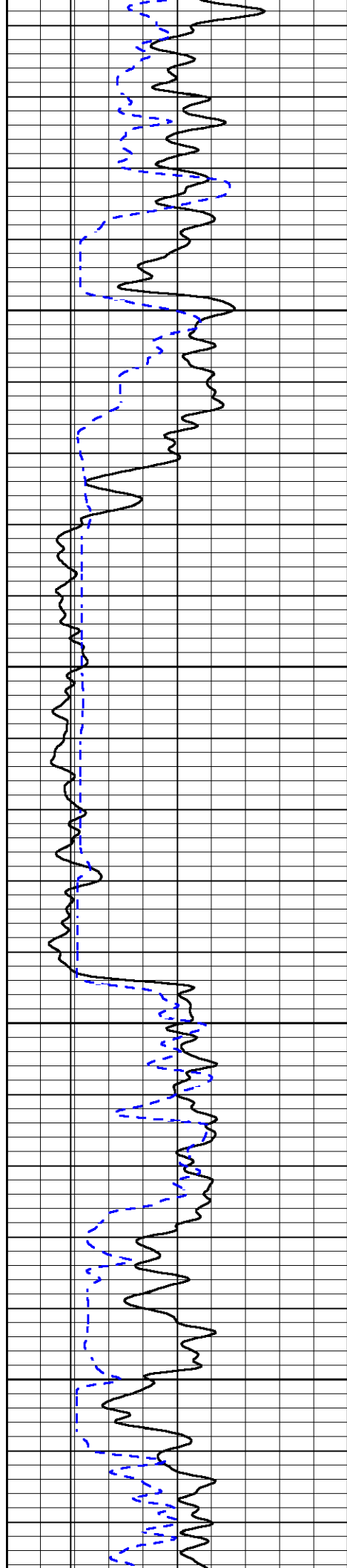


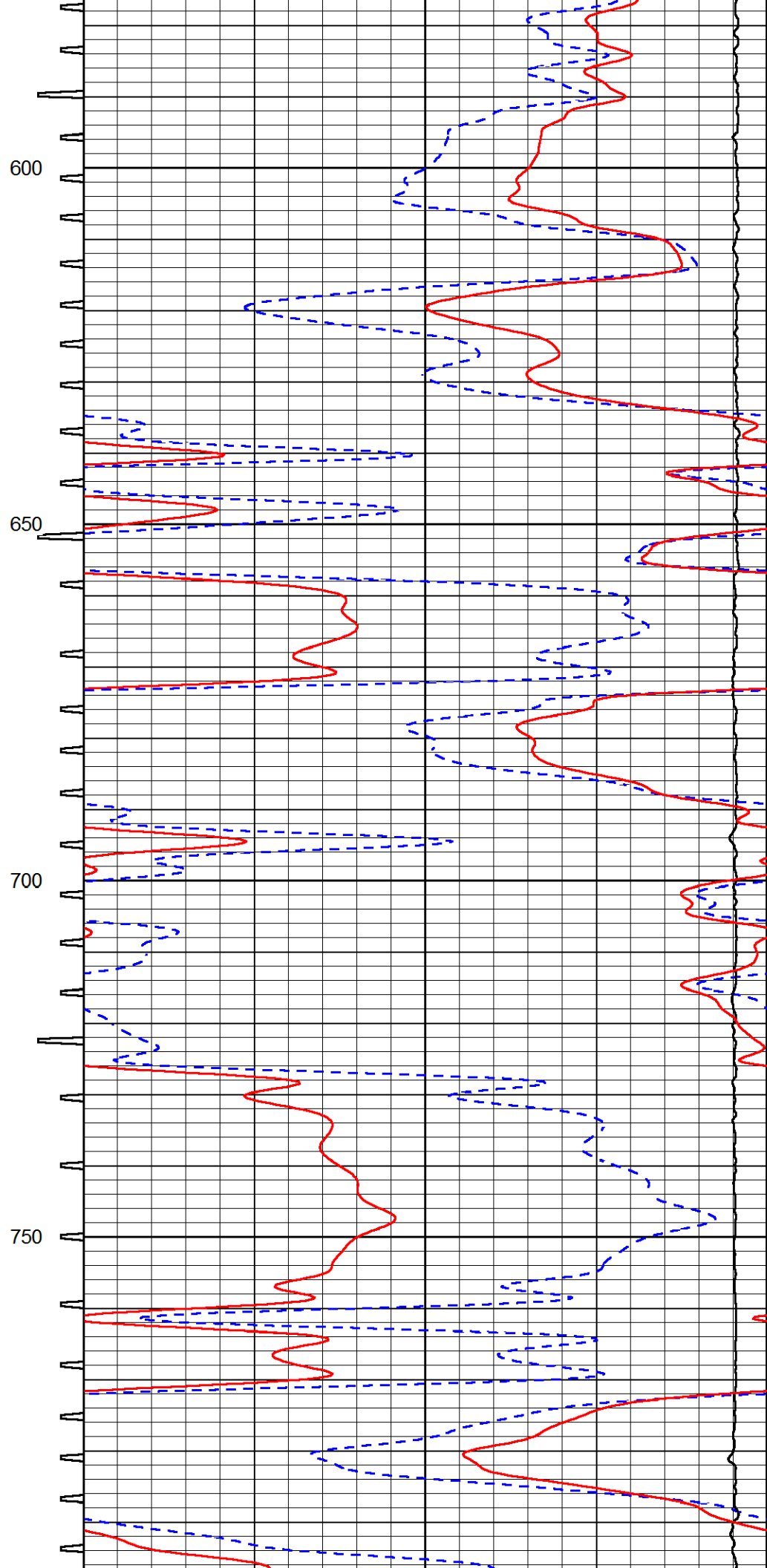
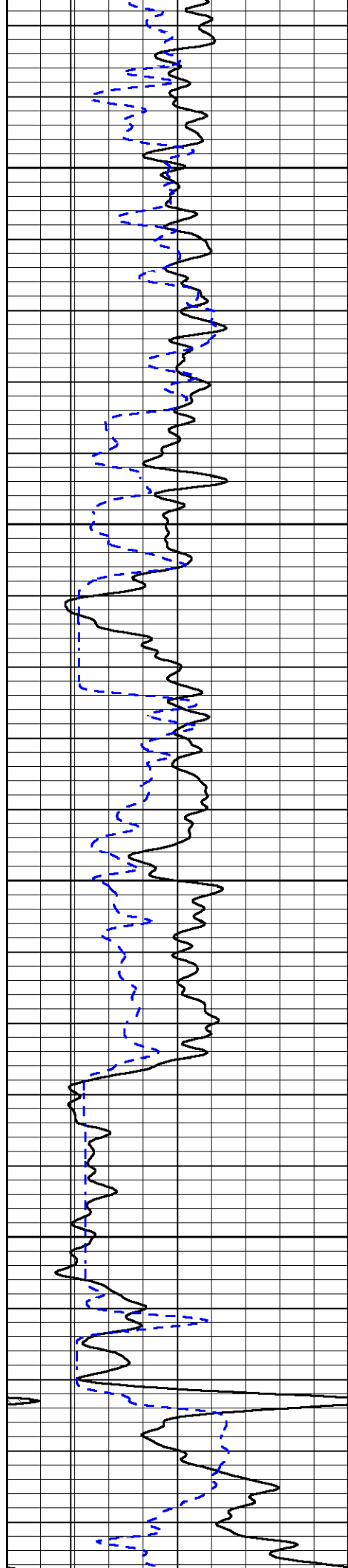
MAIN PASS

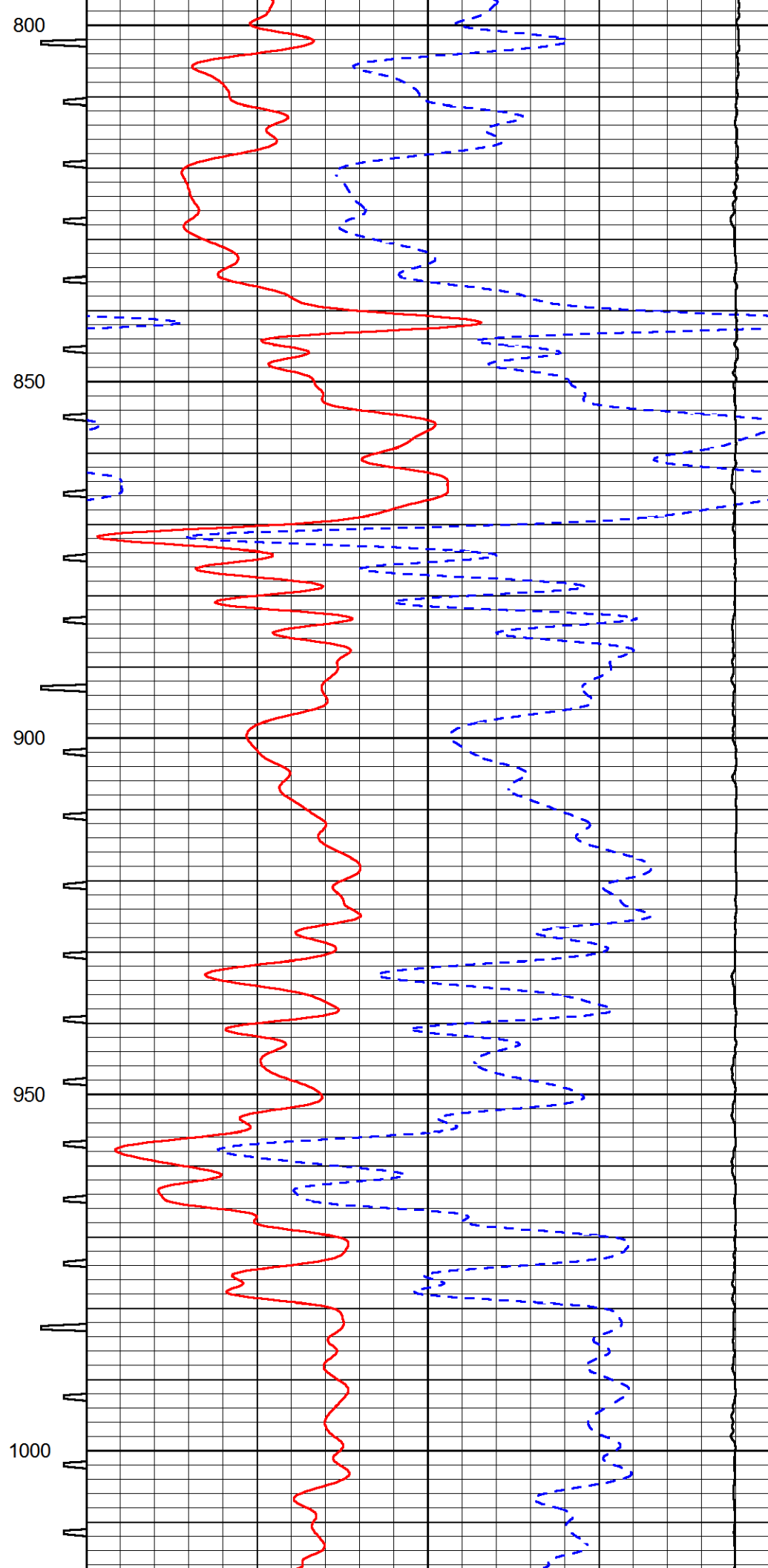
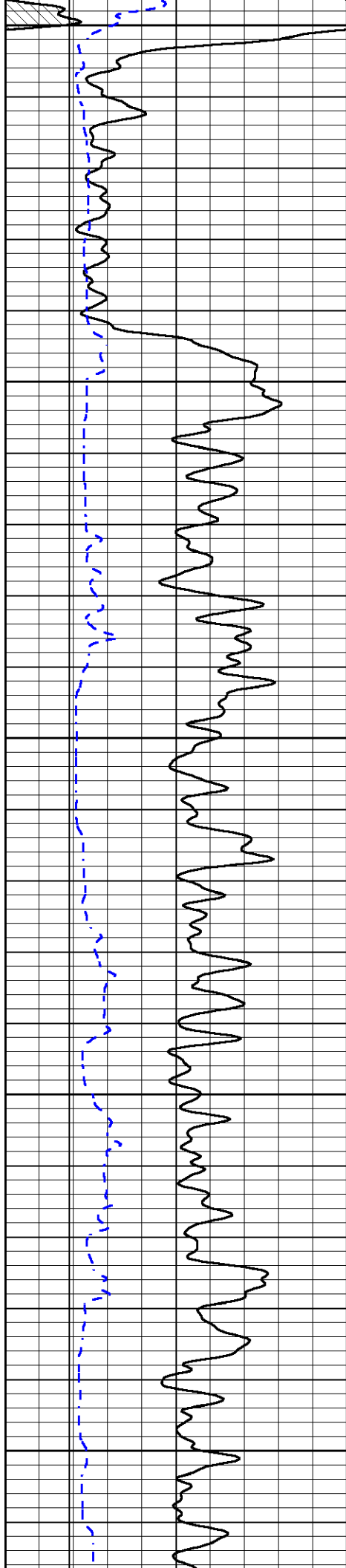
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Dataset Pathname stack/pass3.1
Presentation Format sonic
Dataset Creation Wed Jul 10 03:24:34 2019
Charted by Depth in Feet scaled 1:240

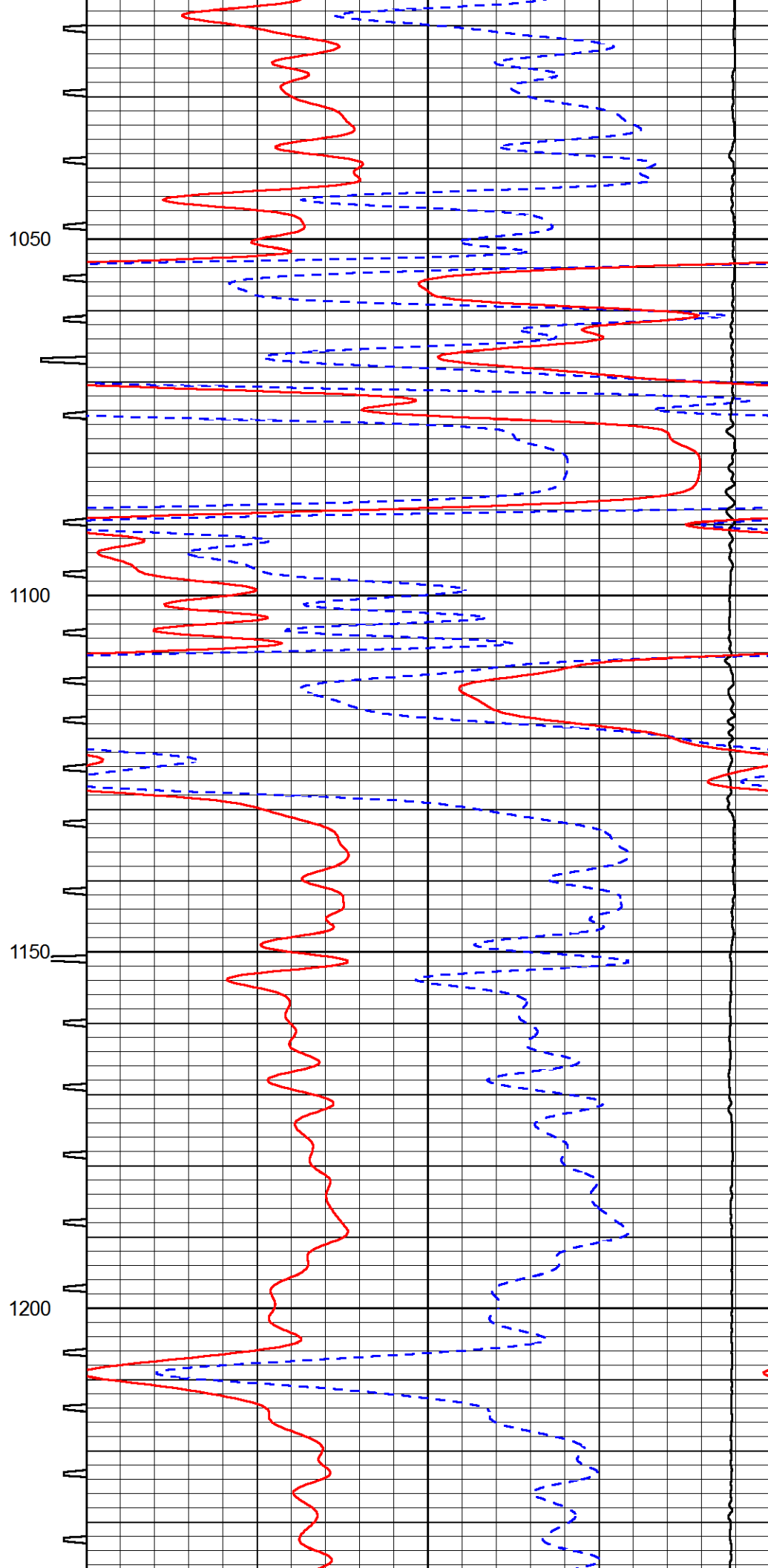
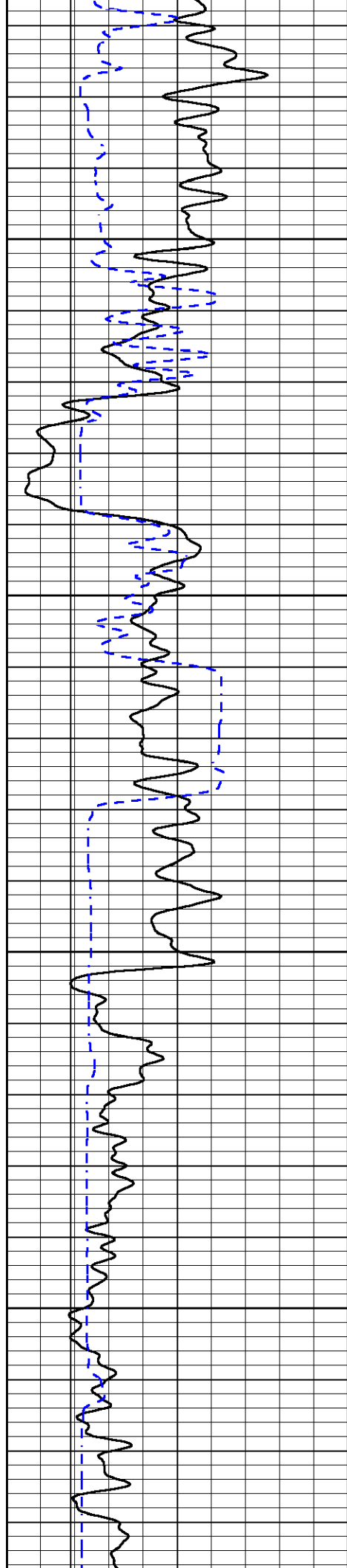
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6	CALIPER (in)	16	RAVEL TIM	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

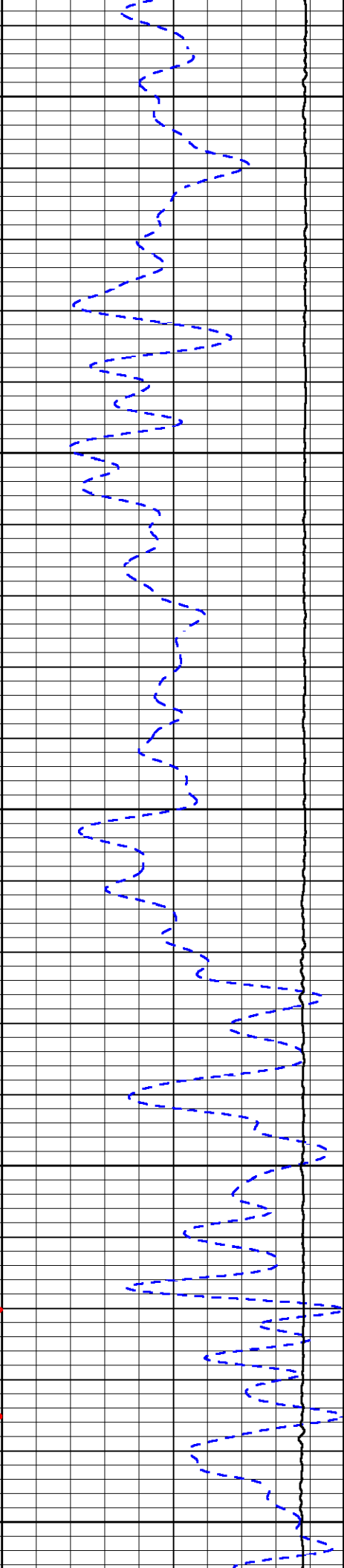
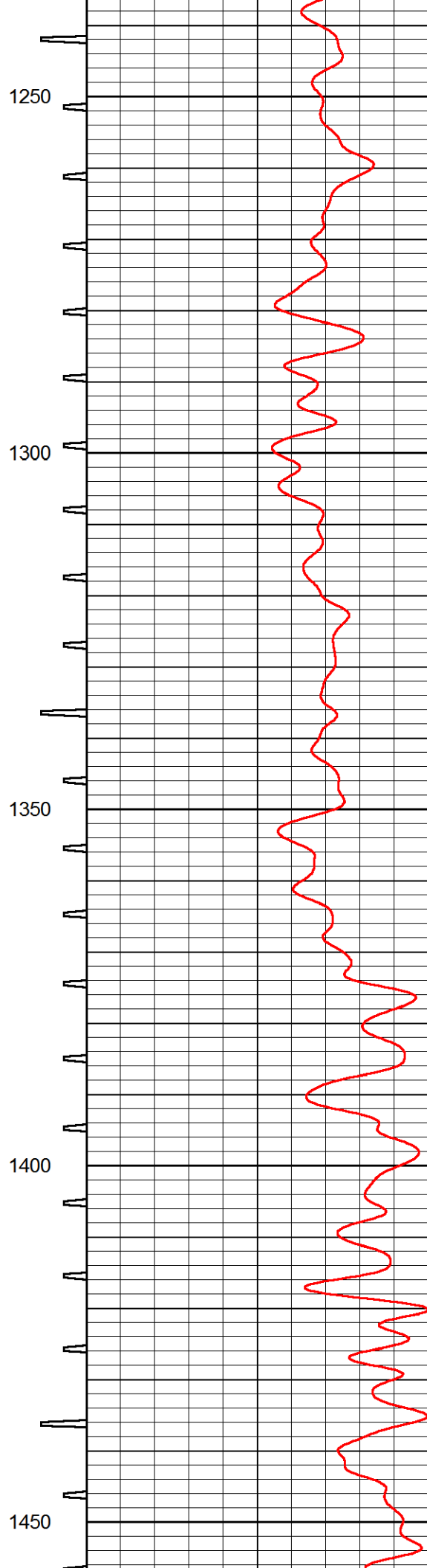
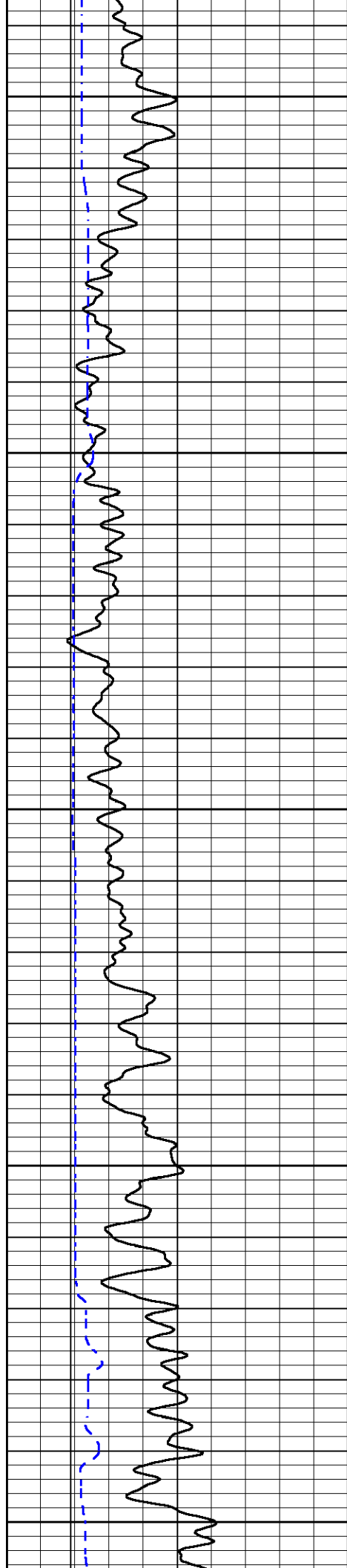


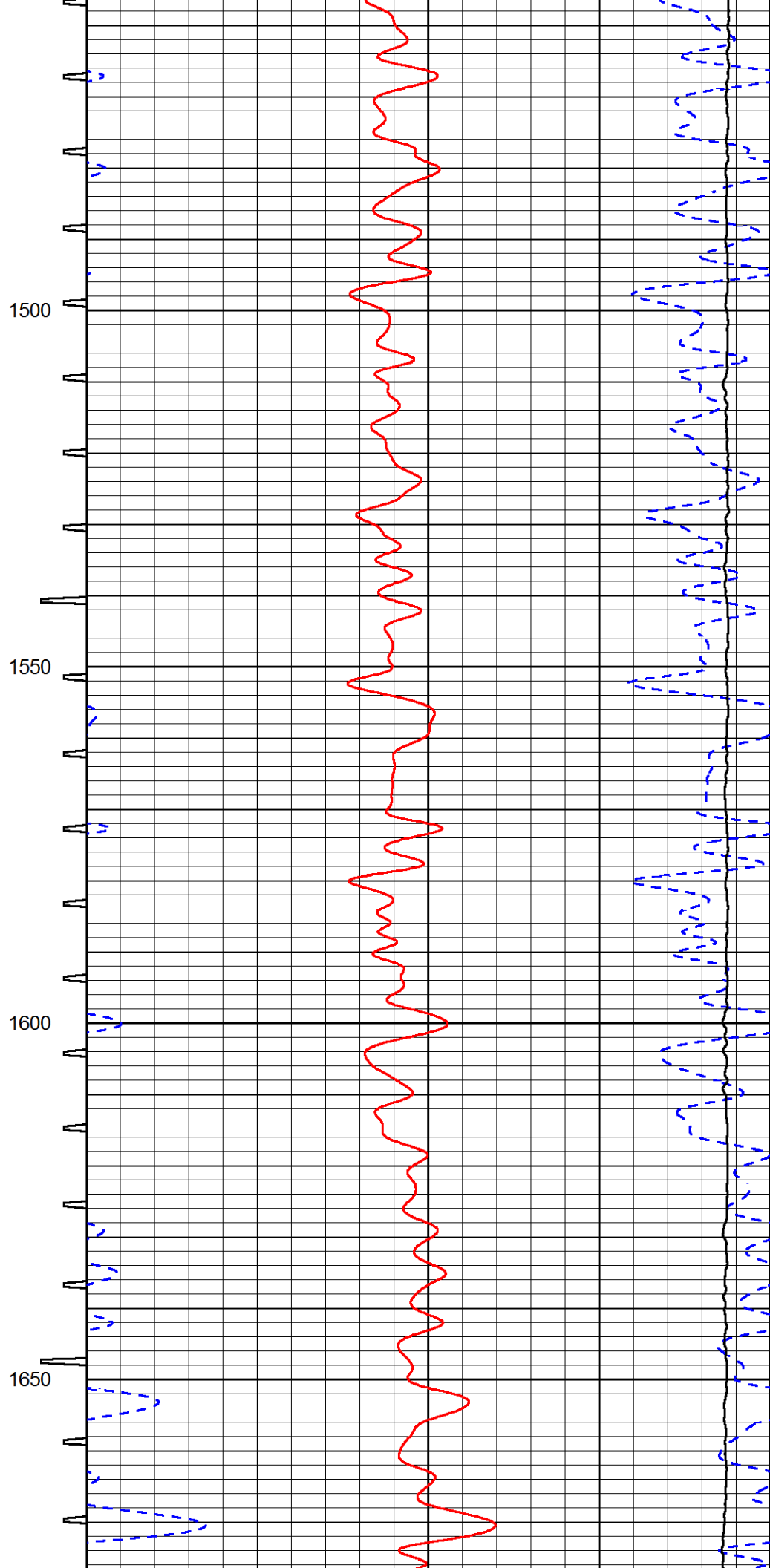
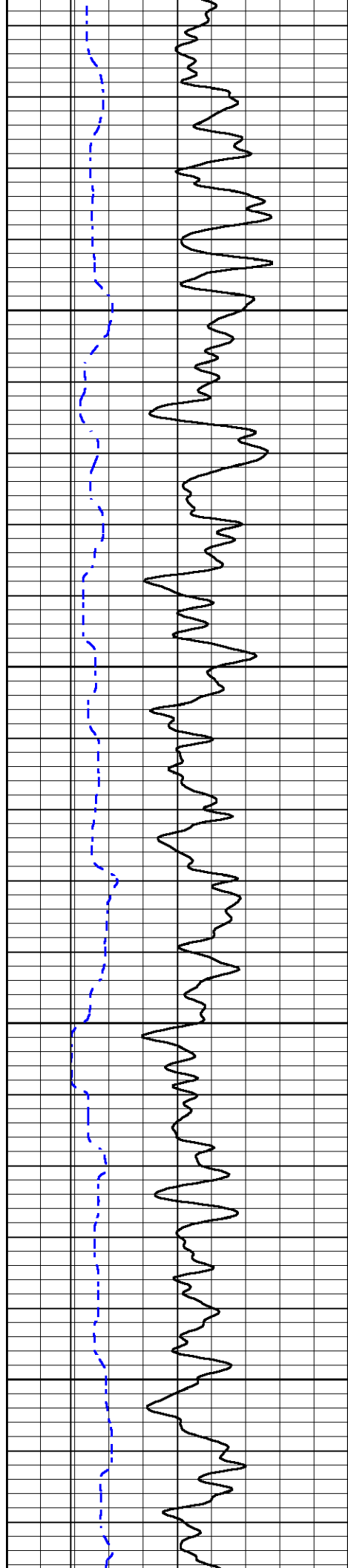


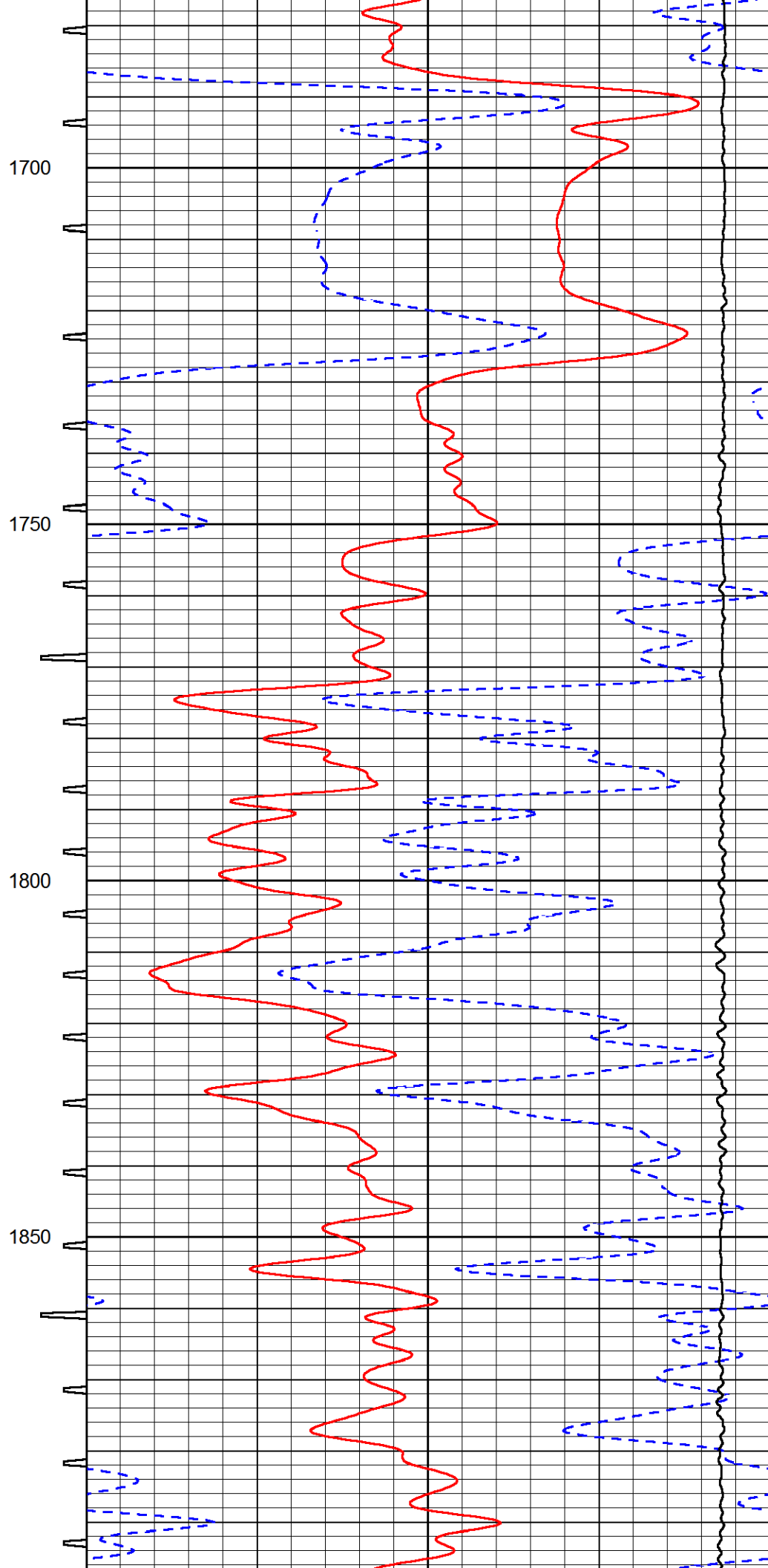
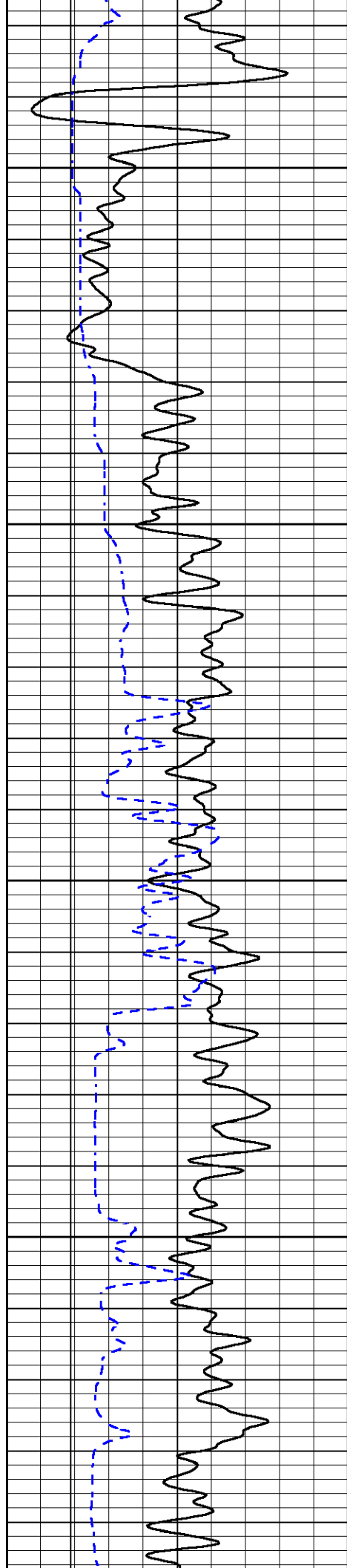


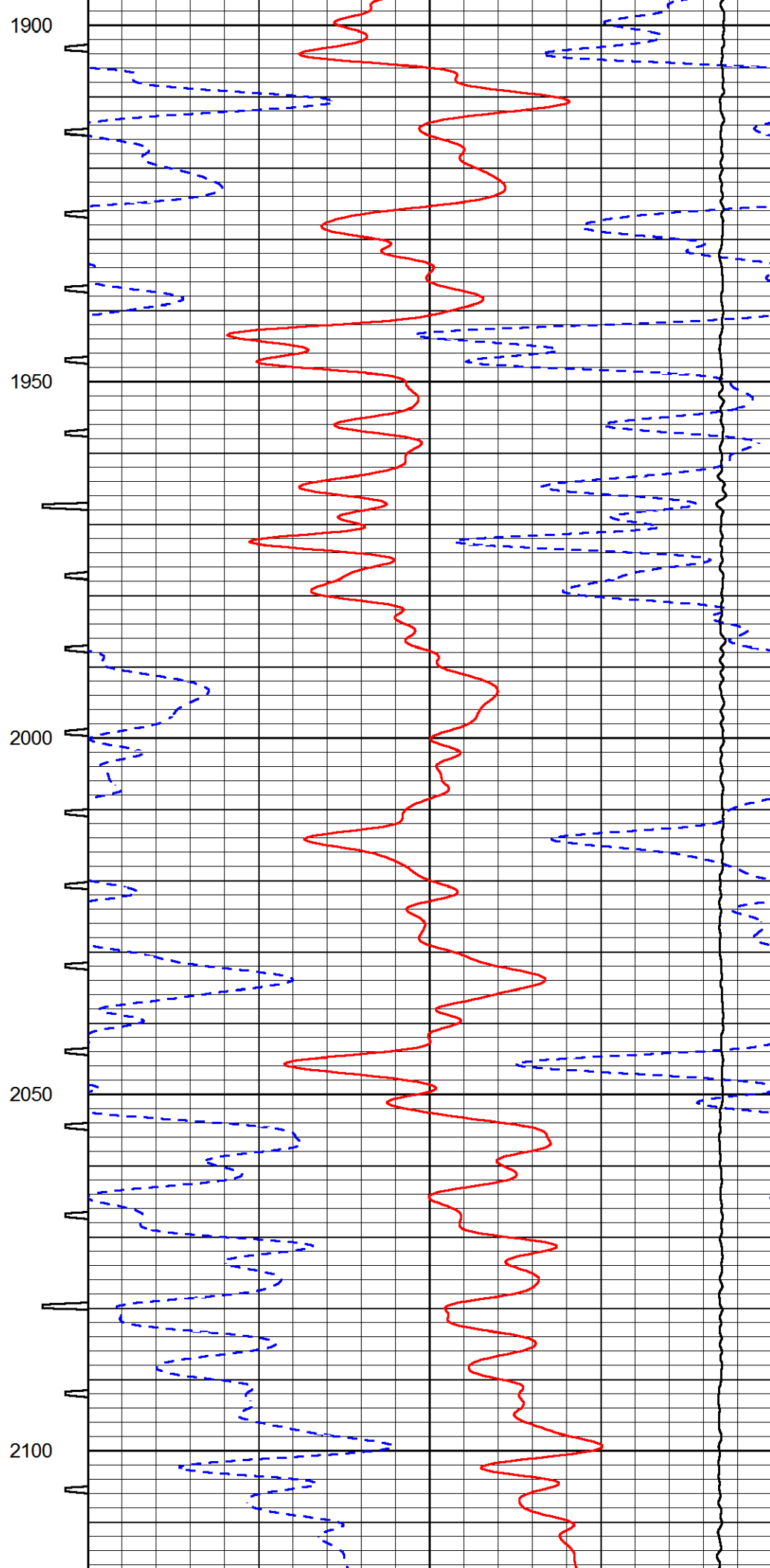
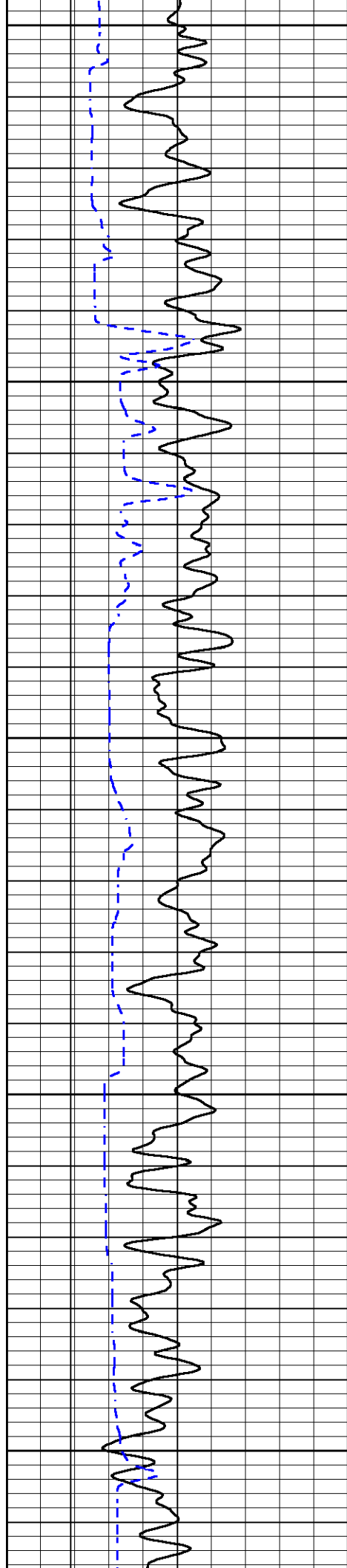


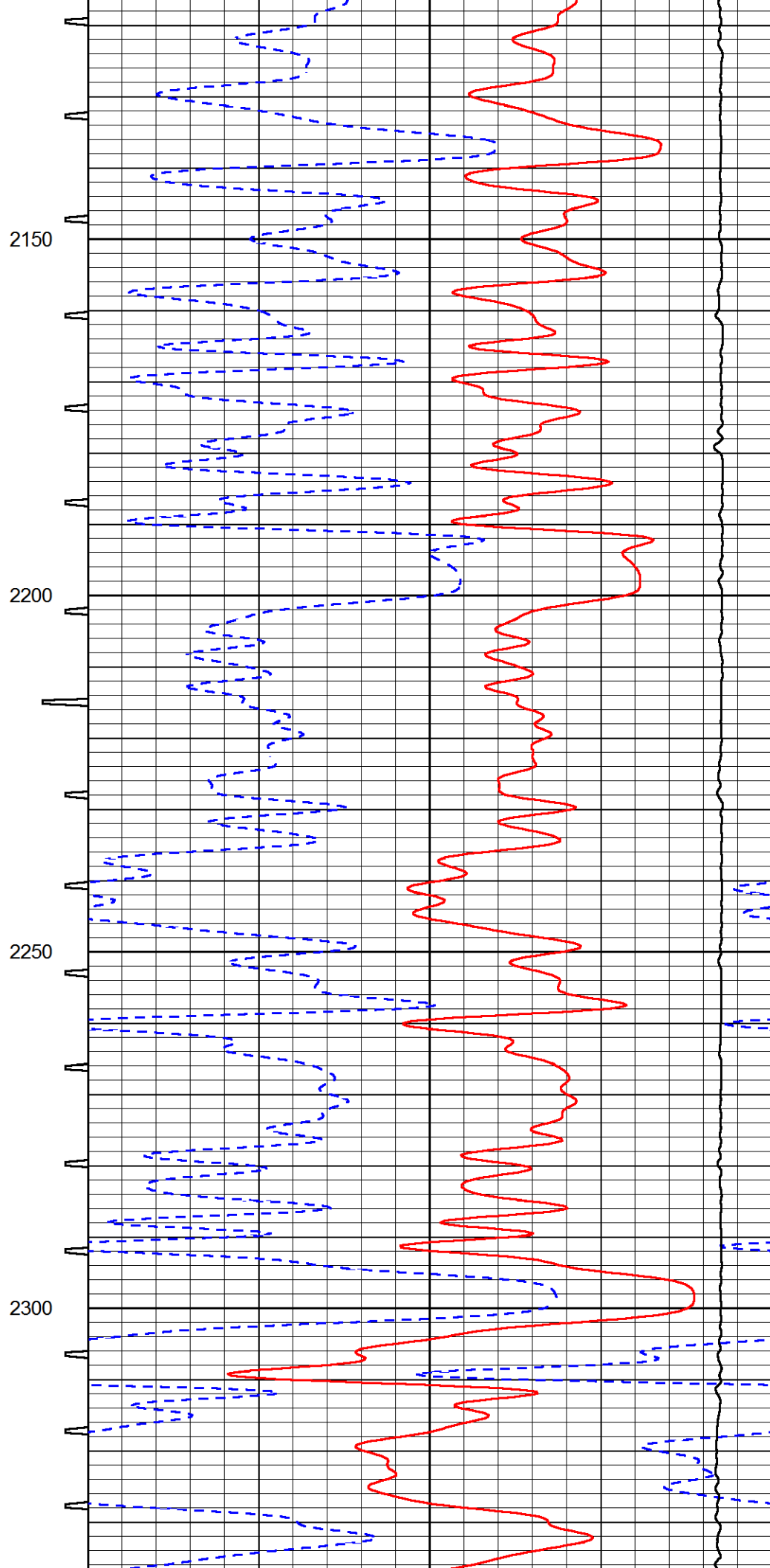
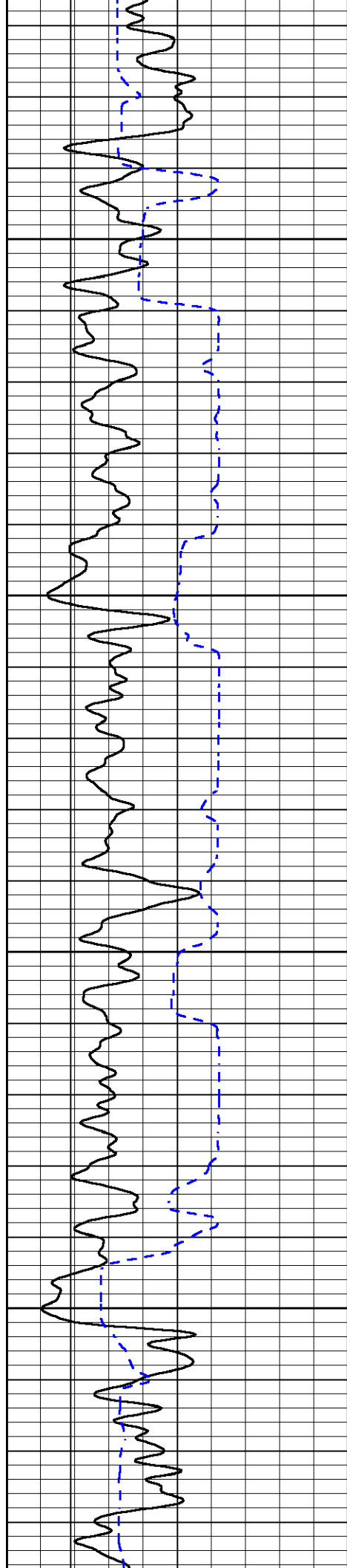


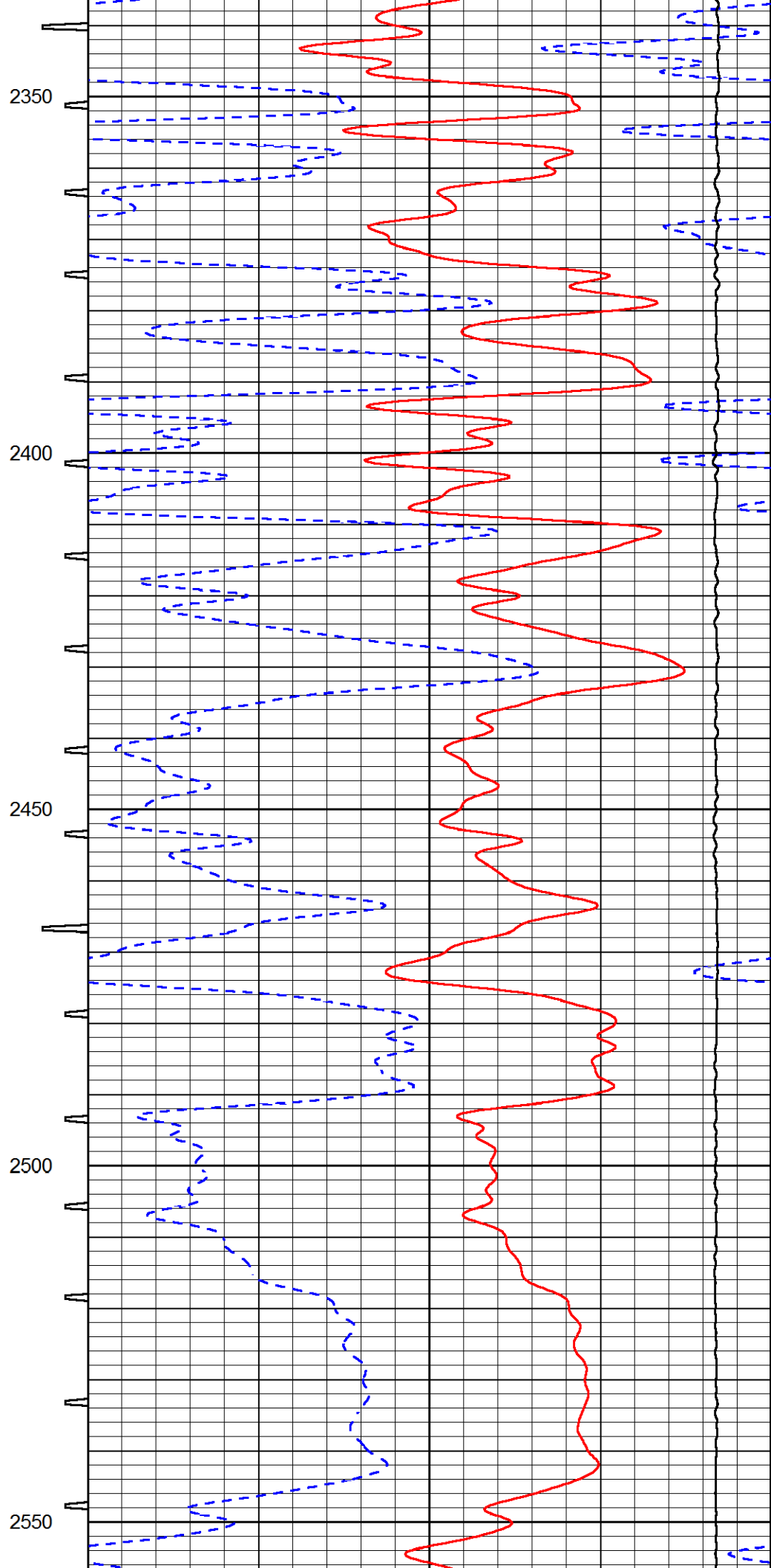
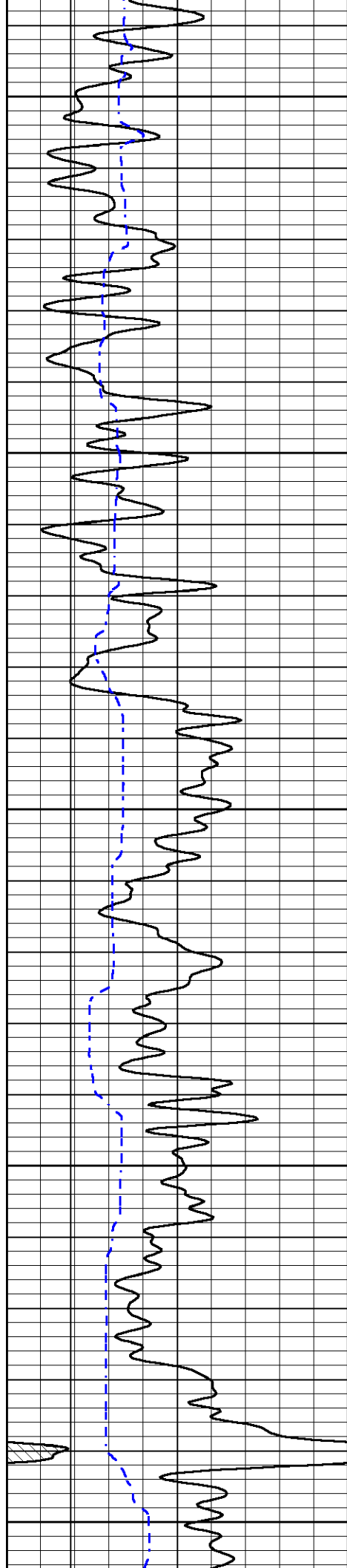


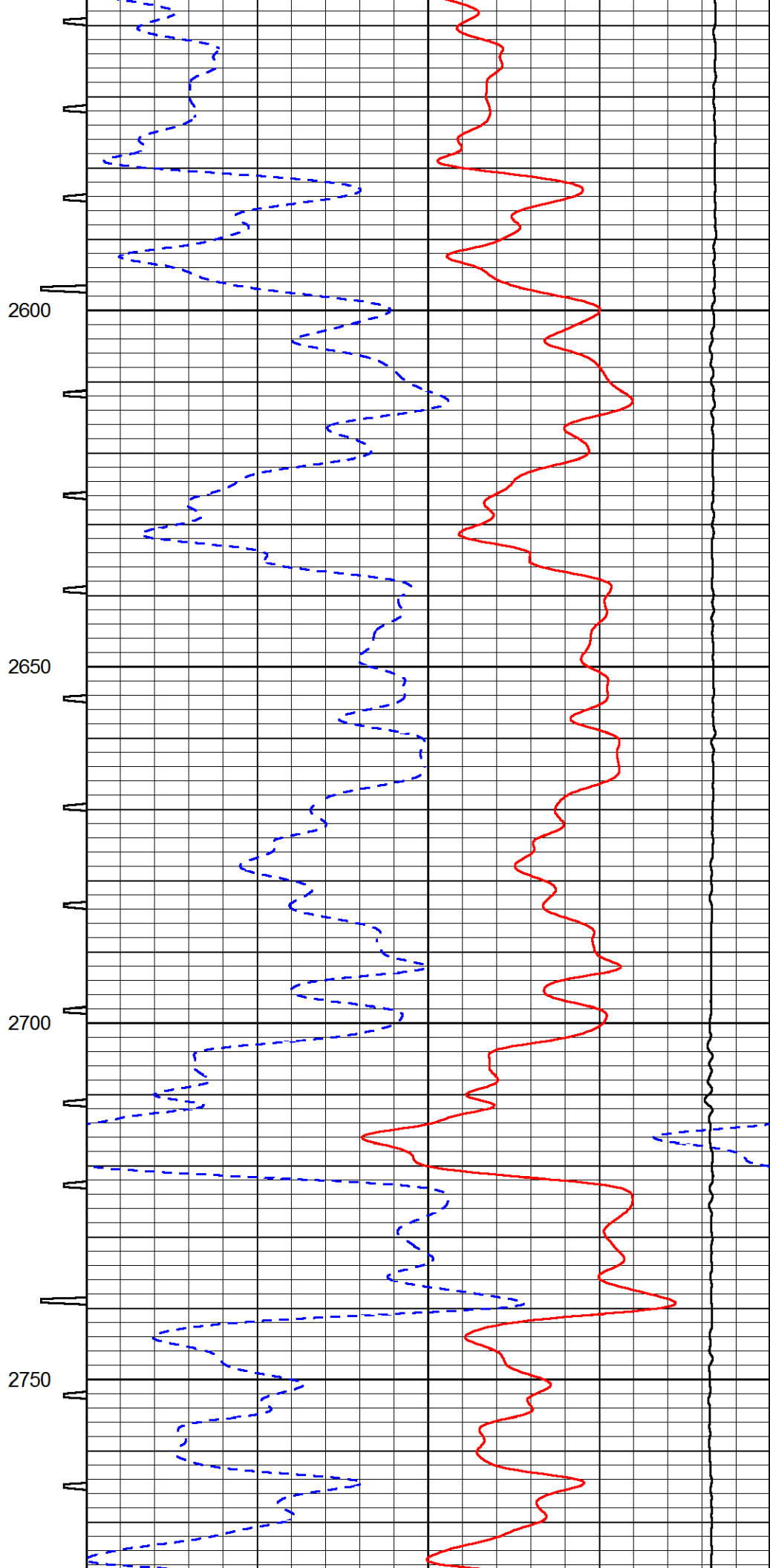
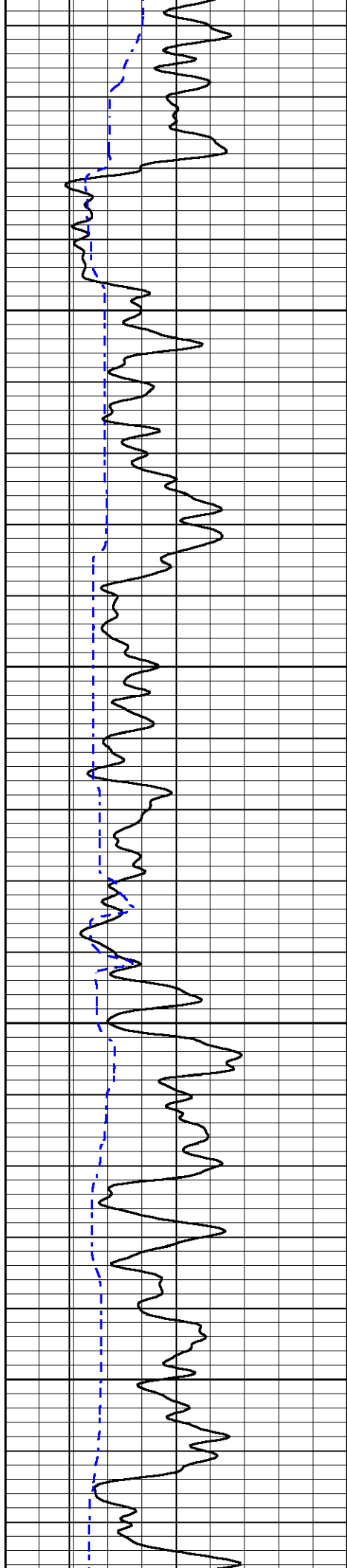


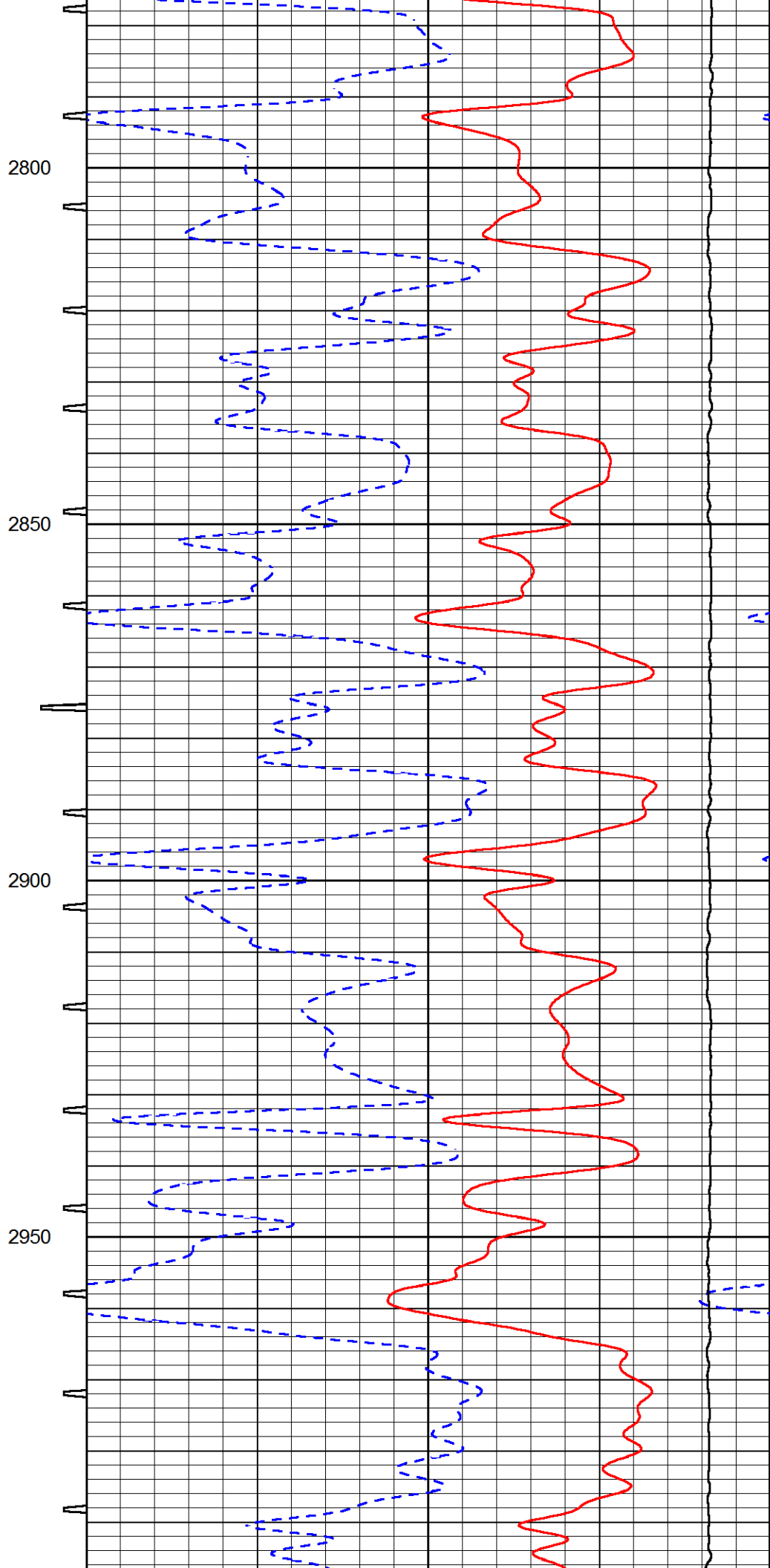
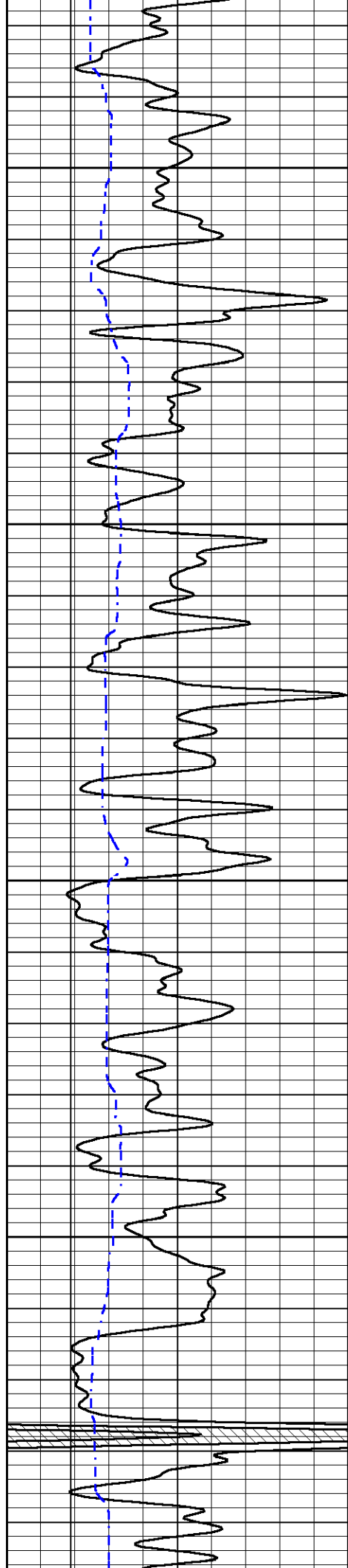


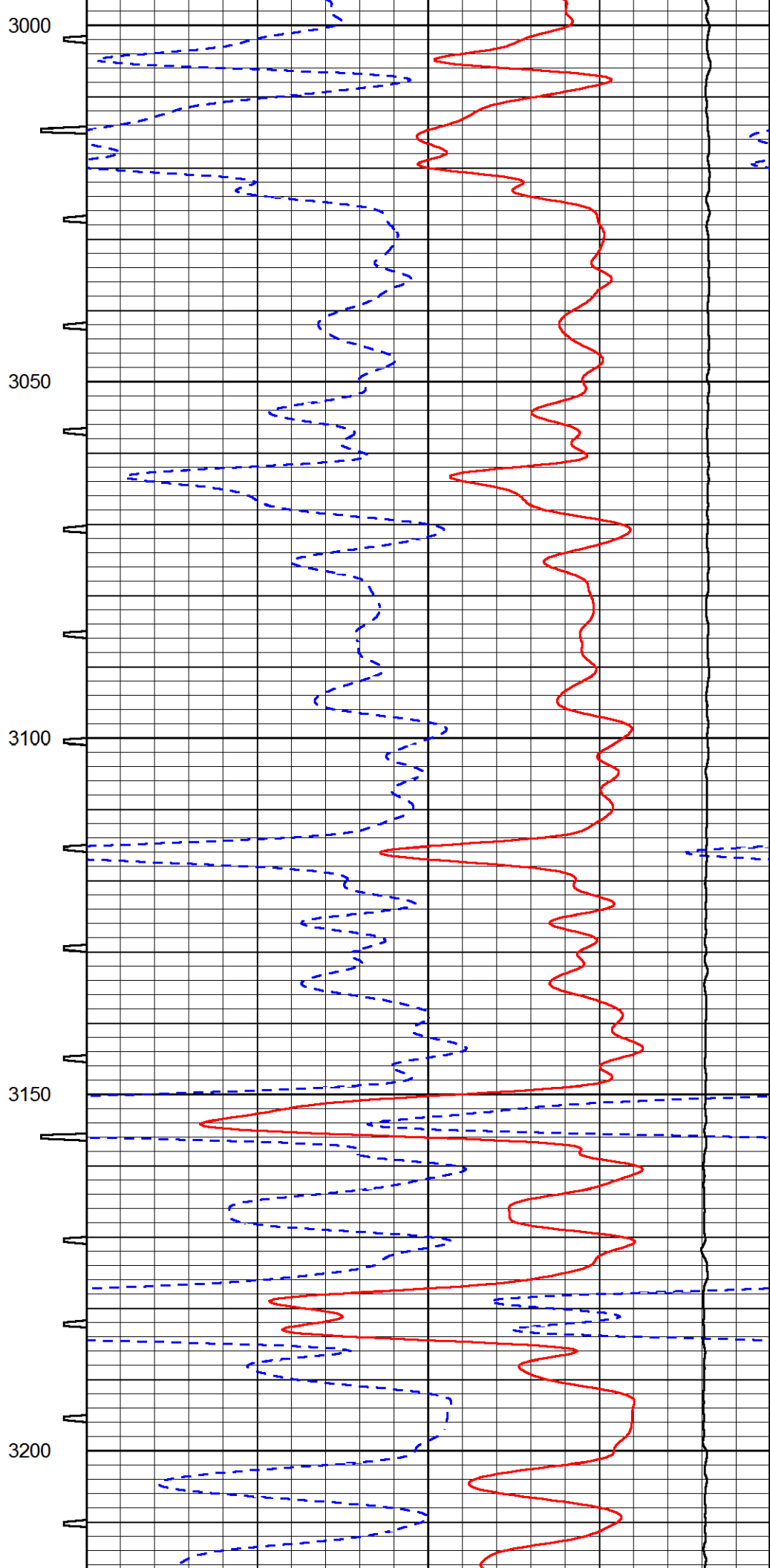
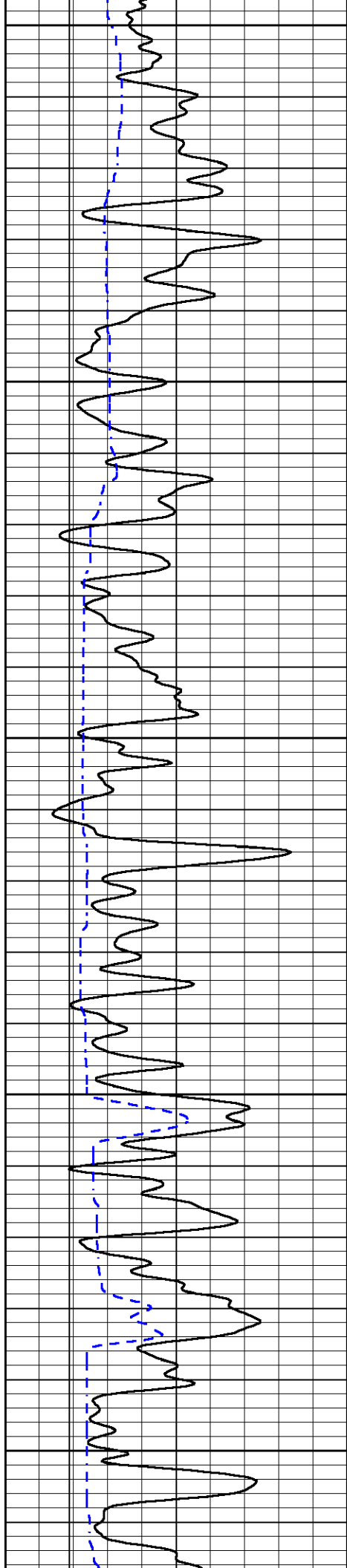


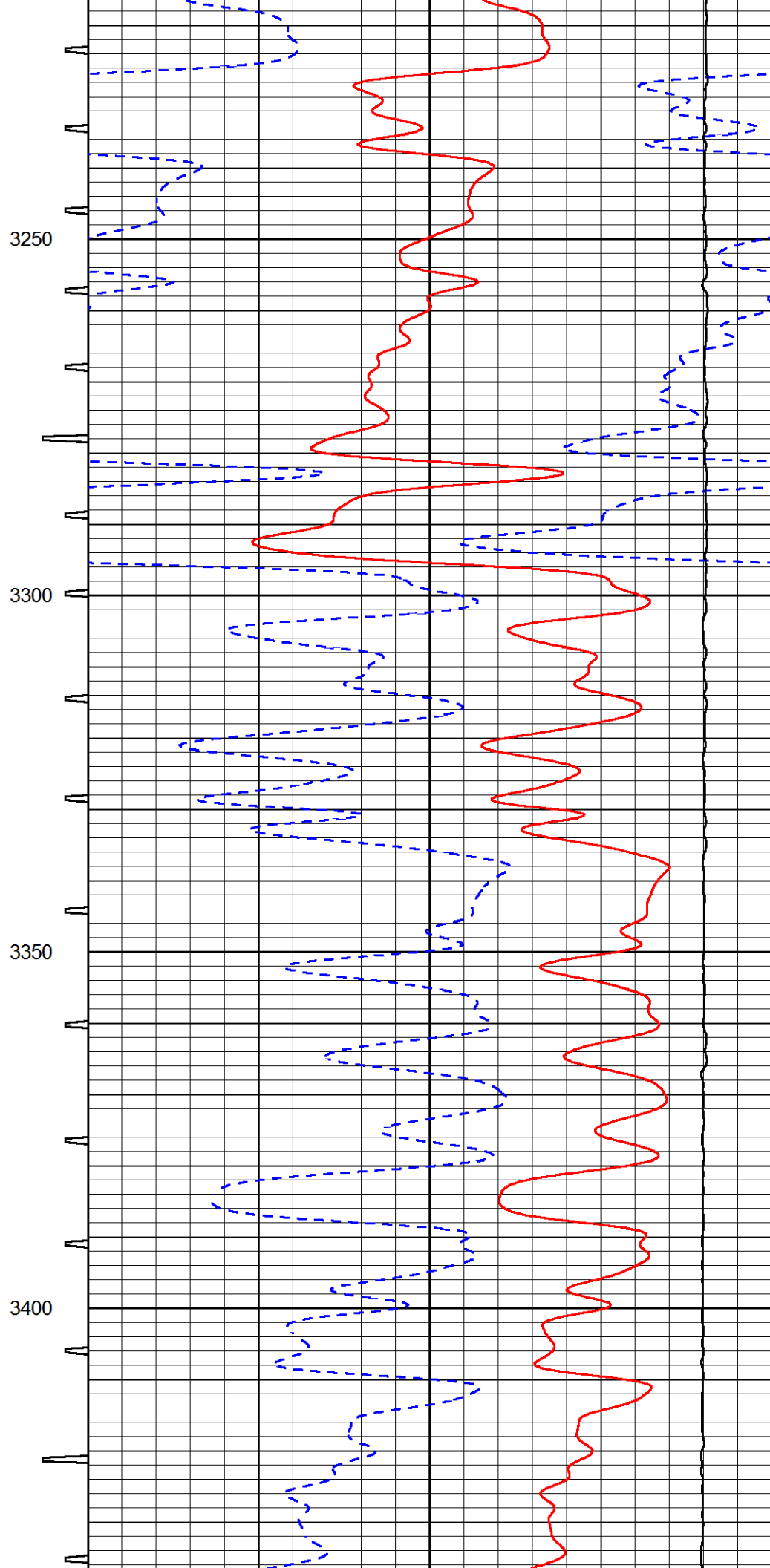
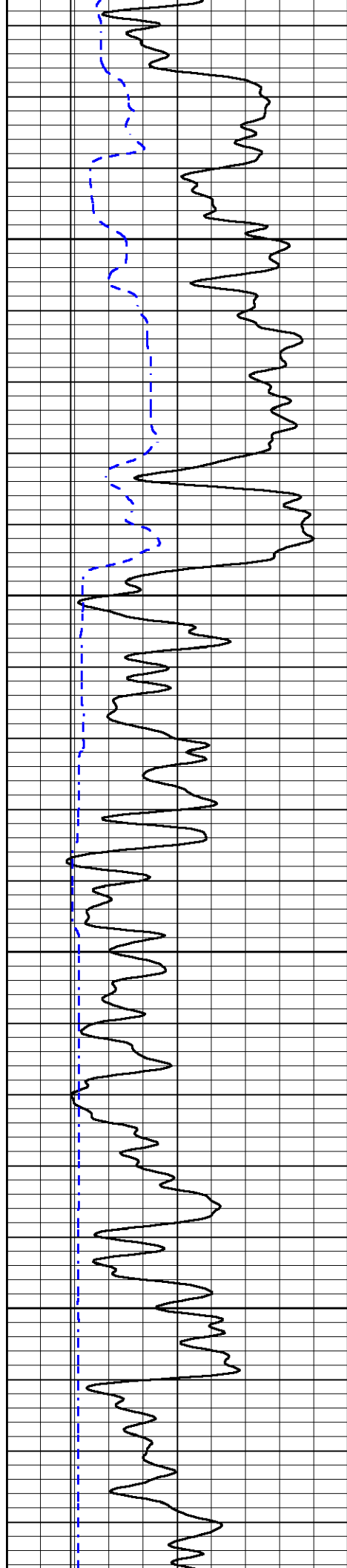


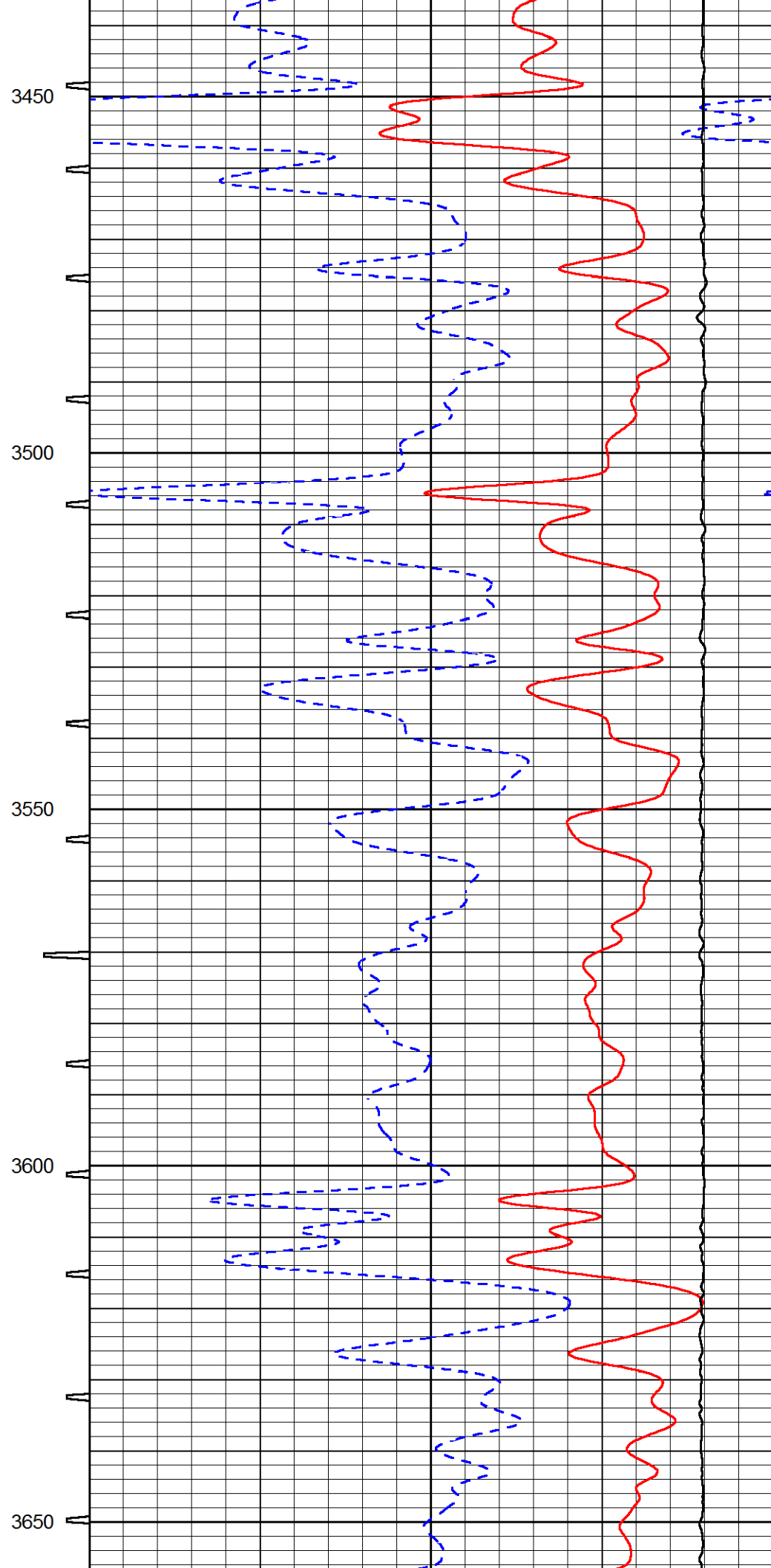
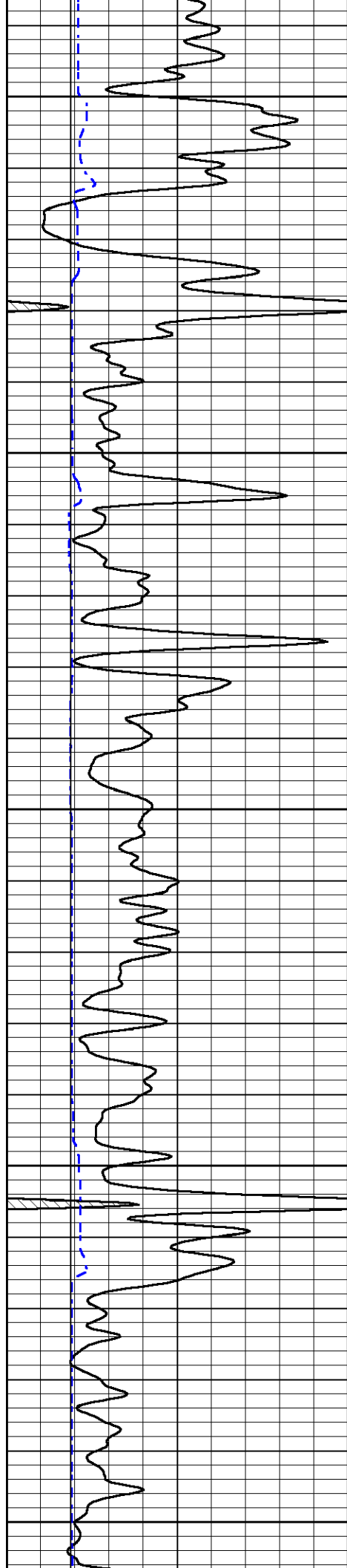


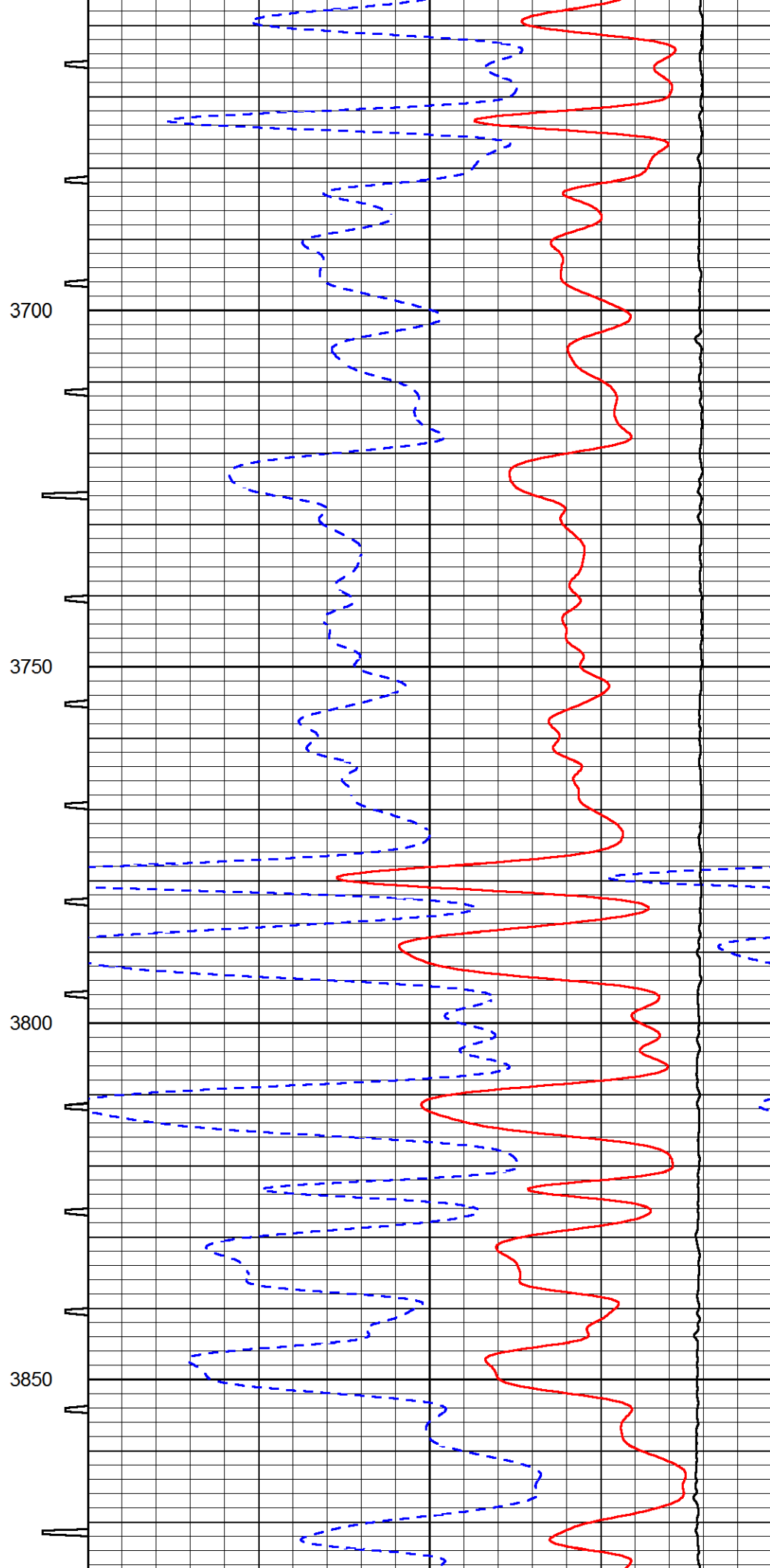
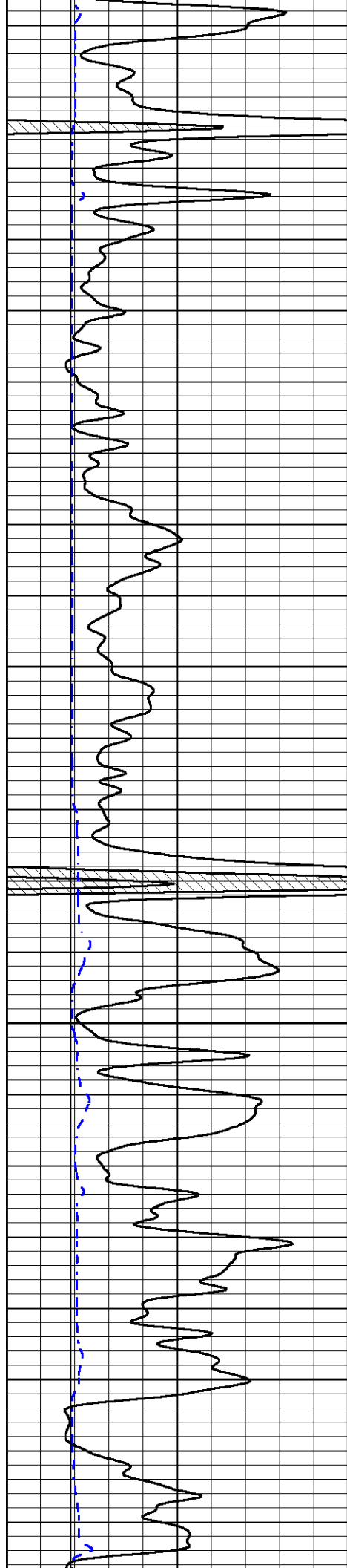


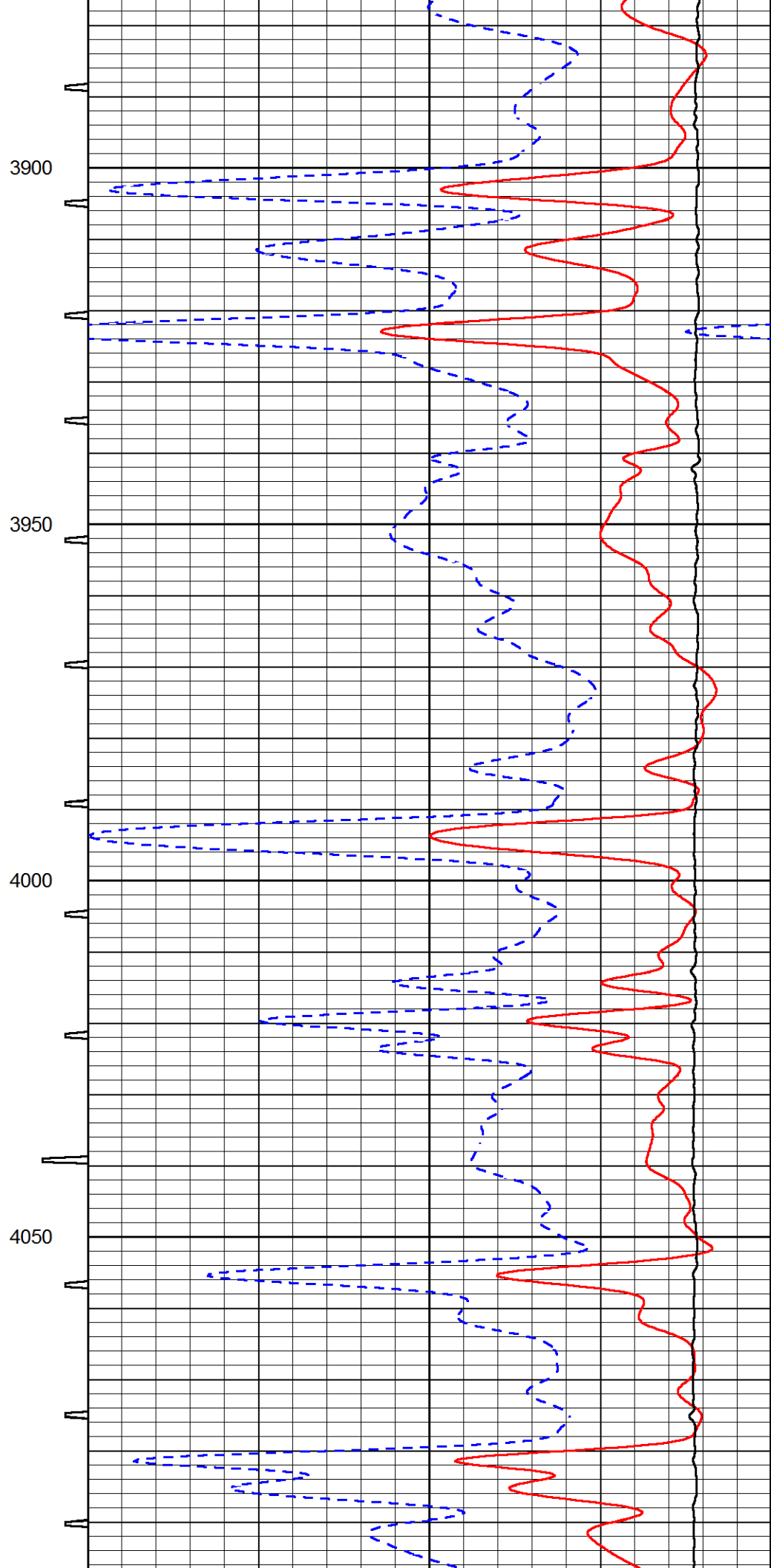
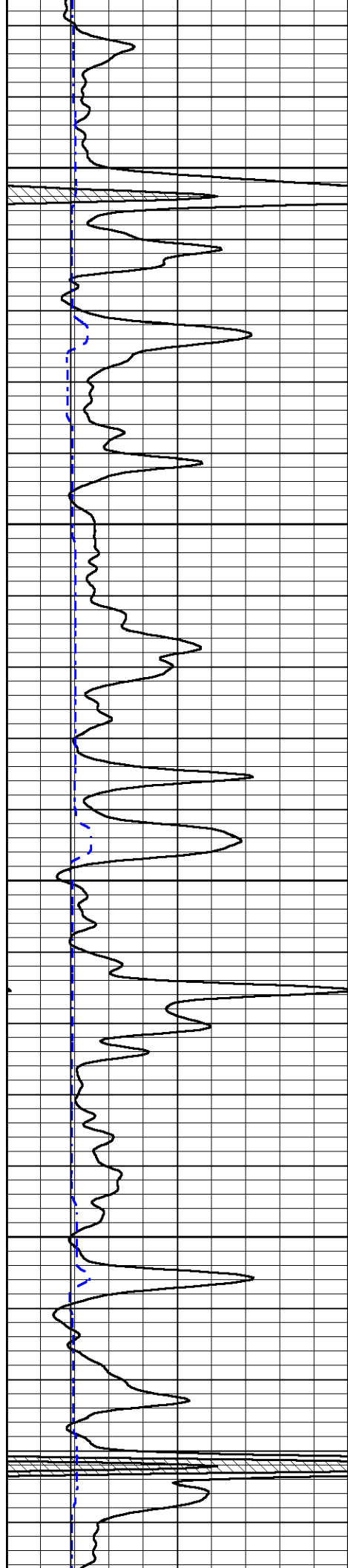


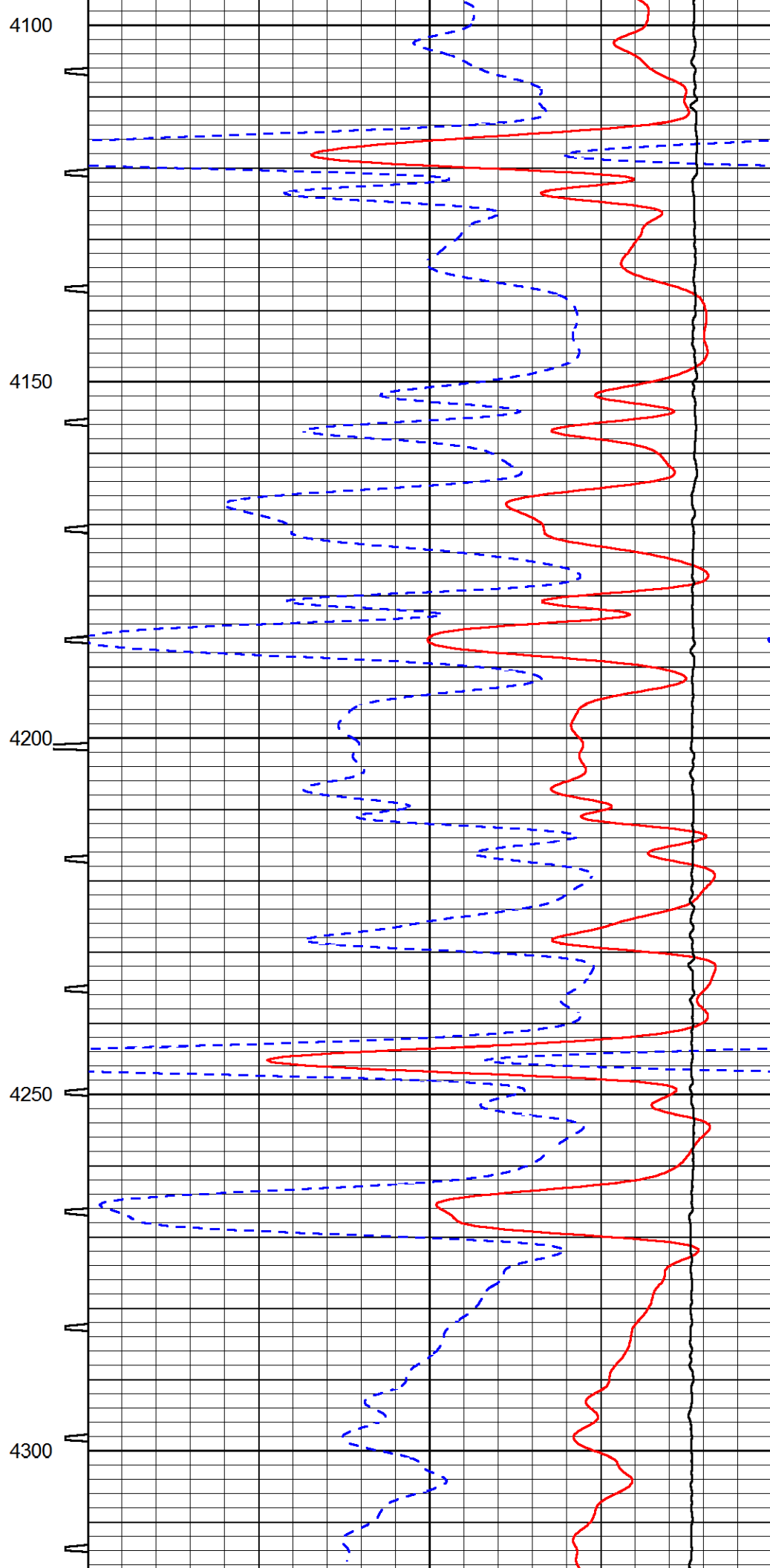
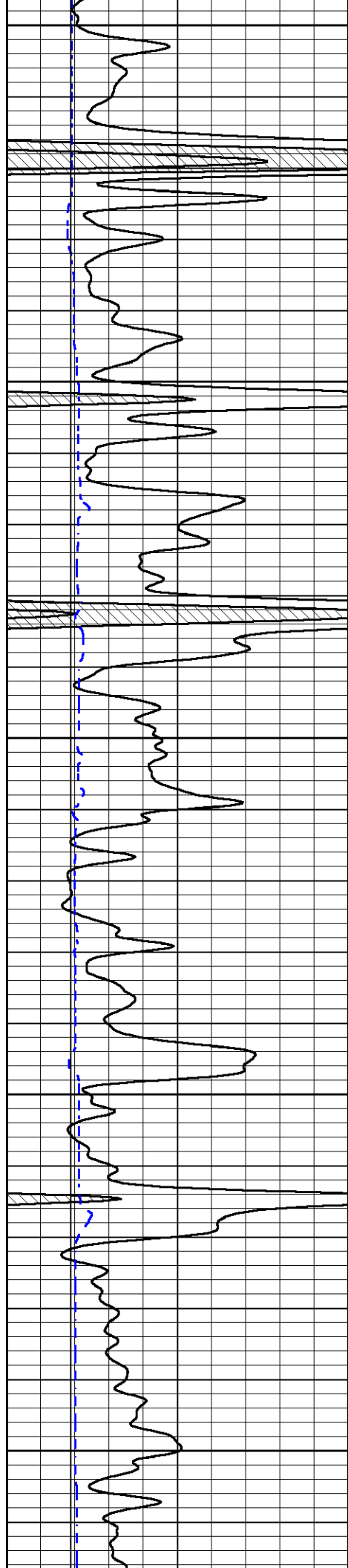


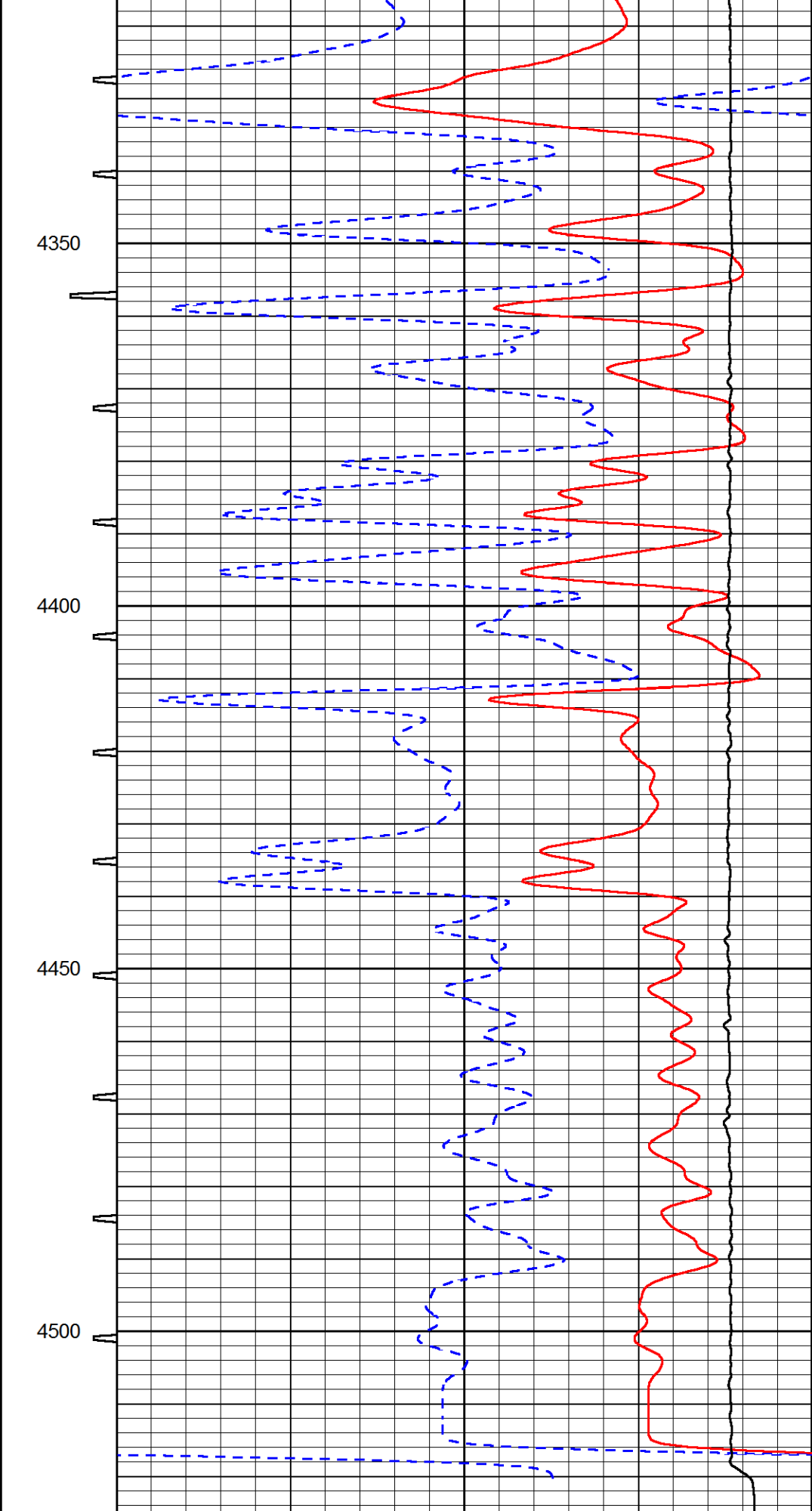
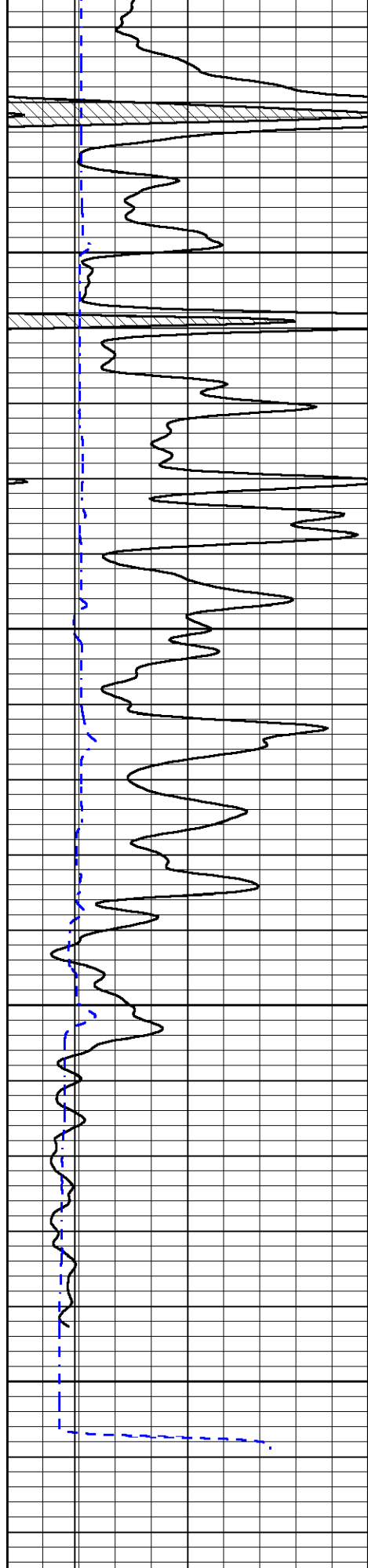












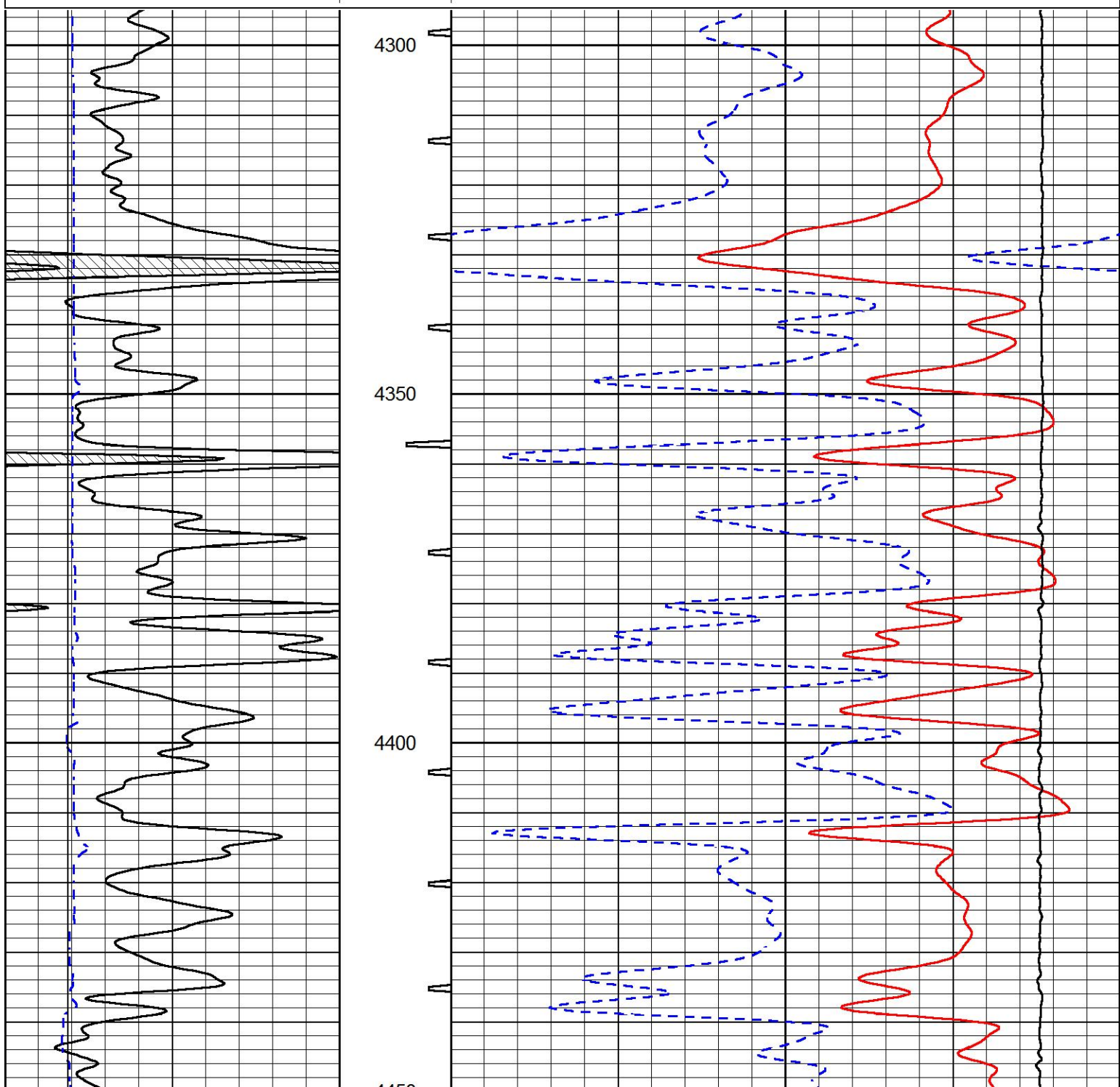
0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft)	40
6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
2	PIT SIZE	10	(in)	15000	LINE TENSION (psi)	0

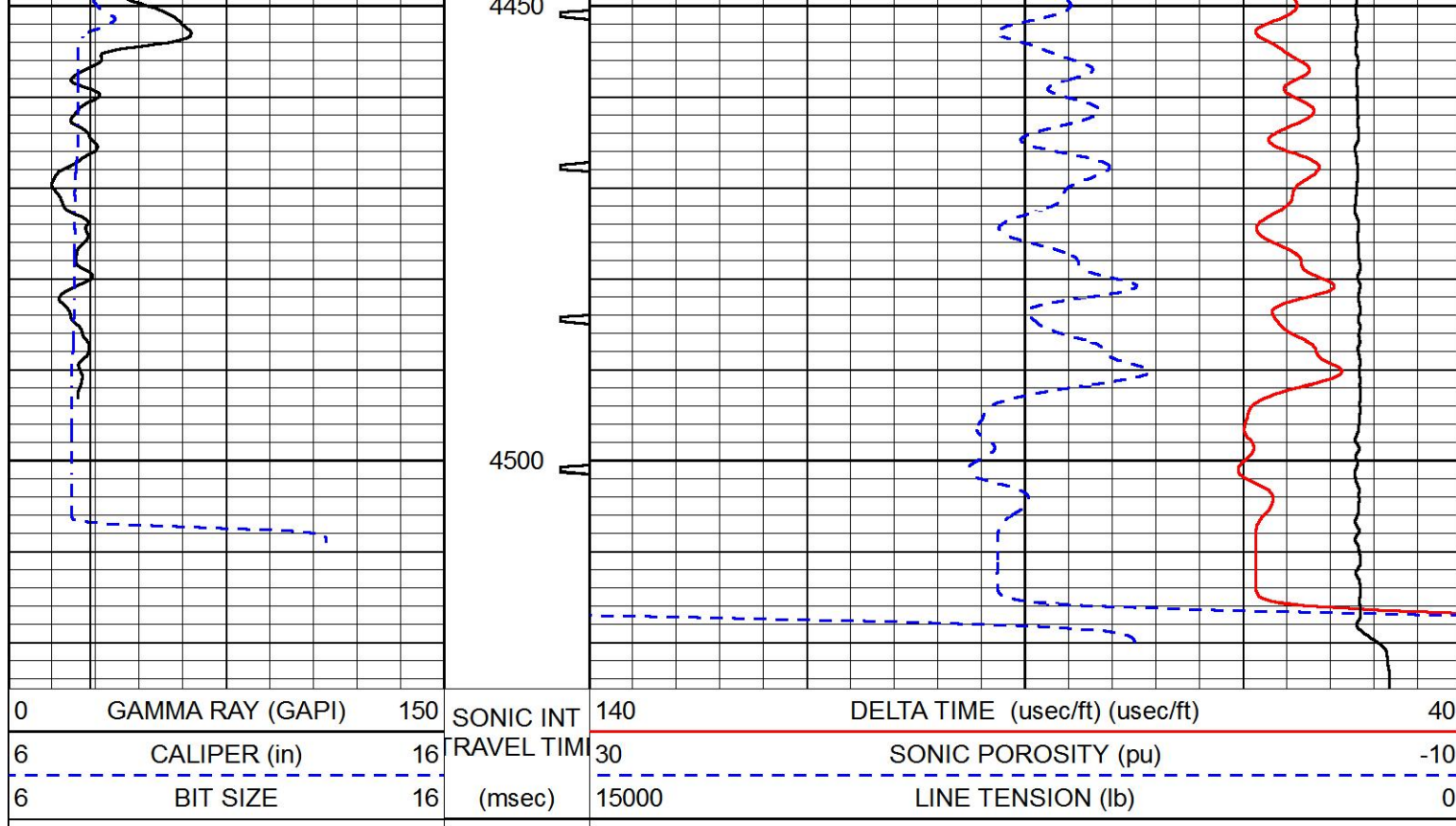


REPEAT SECTION

Database File cholla_schlegel_1_4.db
 Dataset Pathname stack/pass2.1
 Presentation Format sonic
 Dataset Creation Wed Jul 10 03:24:49 2019
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft)	40
6	CALIPER (in)	16	RAVEL TIM	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0





		Company	CHOLLA PRODUCTION, LLC
		Well	SCHLEGEL # 1-4
		Field	WILDCAT
		County	NESS
		State	KANSAS