



PIONEER

Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company **DARRAH OIL**
Well **BRONLEEWE NO. 2-22**
Field **RICKARD**
County **RICE** State **KANSAS**

Location: API #: 15-159-22860-00-00

Other Services

SEC 22 TWP 18S RGE 9W

Permanent Datum **GROUND LEVEL** Elevation **1727'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 1732'
D.F. N/A
G.L. 1727'

Date **11/6/2018**

Run Number **TWO**

Type Log **BHCS**

Depth Driller **3330'**

Depth Logger **3330'**

Bottom Logged Interval **3319'**

Top Logged Interval **250'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **N/A**

Density **9.0**

Level **FULL**

Max. Rec. Temp. F **109 DEG/F**

Operating Rig Time **4 HOURS**

Equipment -- Location **108 HAYS**

Recorded By **J. HENRICKSON**

Witnessed By **SETH EVENSON**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	293'	8.625"	23#	0	293'
TWO	7.875"	293'	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.
HWY 4 & CHASE BLACKTOP
SOUTH TO AVE D, 3 EAST, 1/8 SOUTH, WEST 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: **J. HENRICKSON**
Operator:
Operator:
Operator:

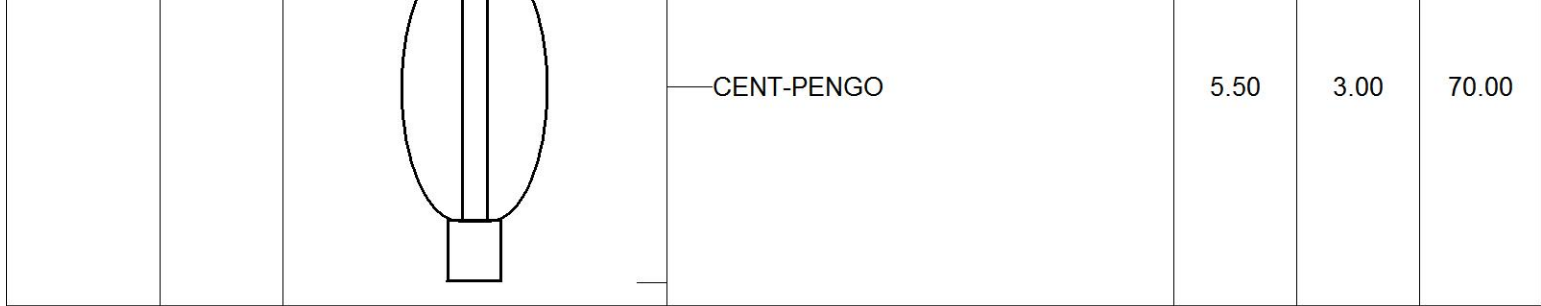
This Log Record Was Witnessed By

Primary Witness: **SETH EVENSON**
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 109	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 12	mmho/m 0	mV 270	degF 47	Off	ft 3330

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					



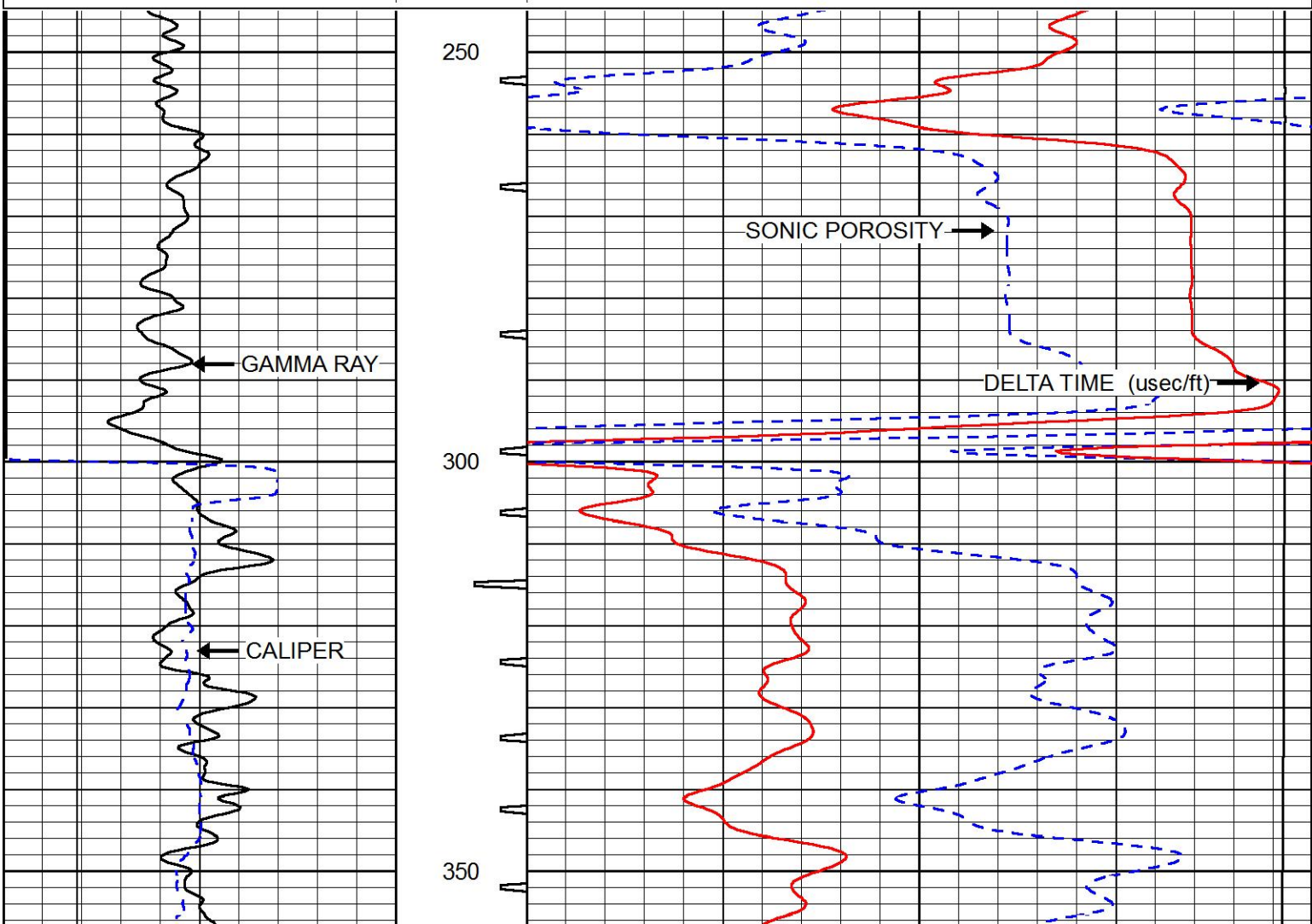
Dataset: darrah_bronleewe_2_22.db: field/well/SONMEL/pass2
 Total length: 26.50 ft
 Total weight: 470.00 lb
 O.D.: 3.50 in

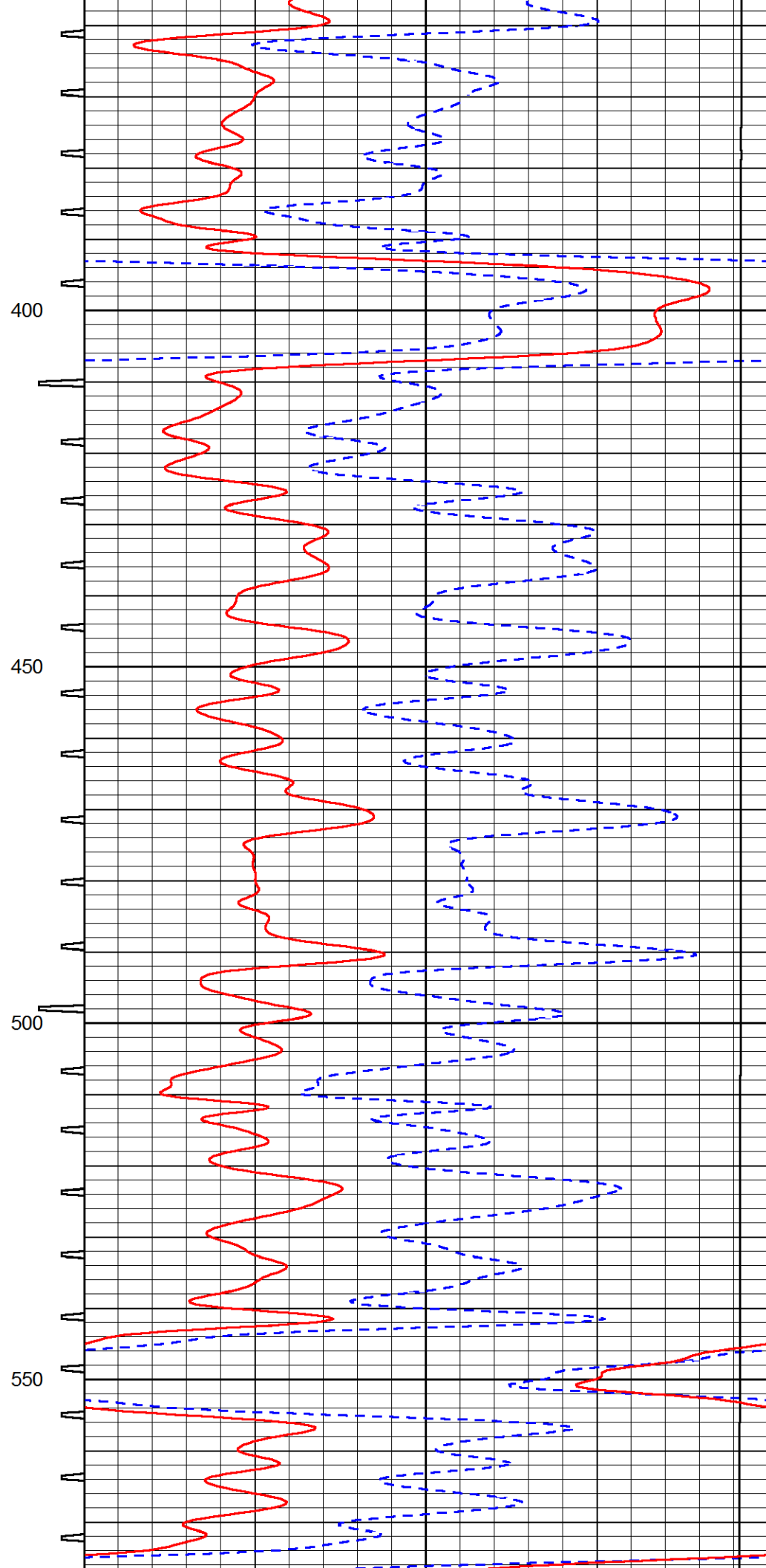
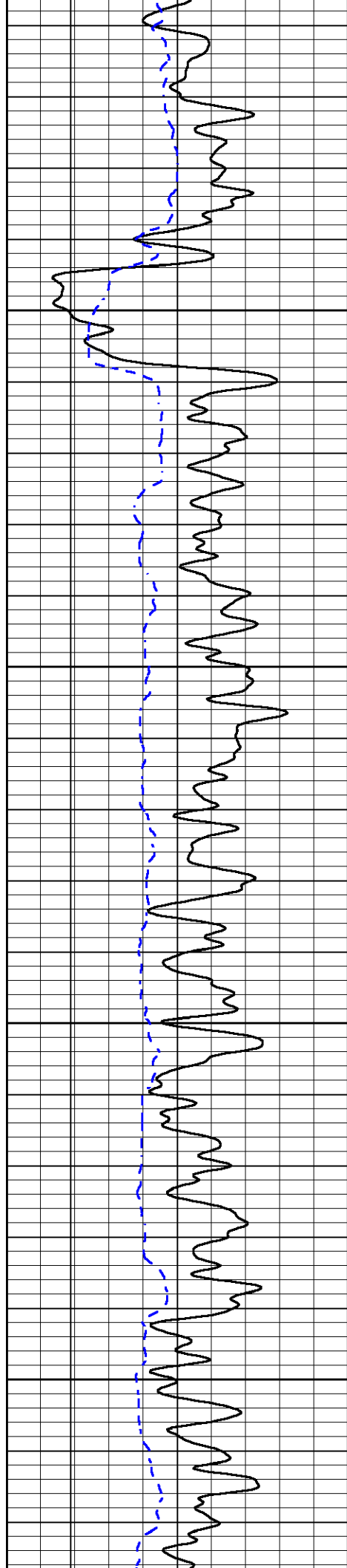


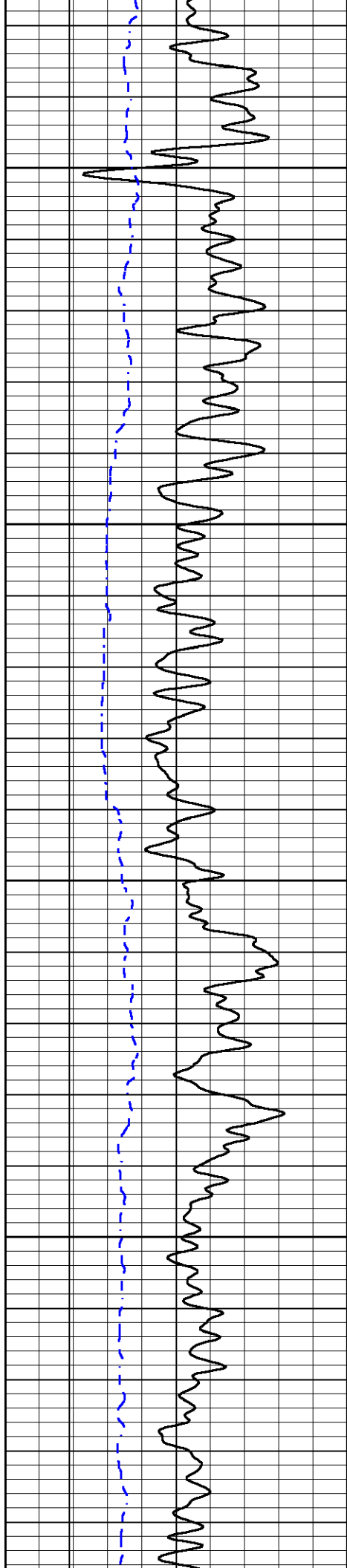
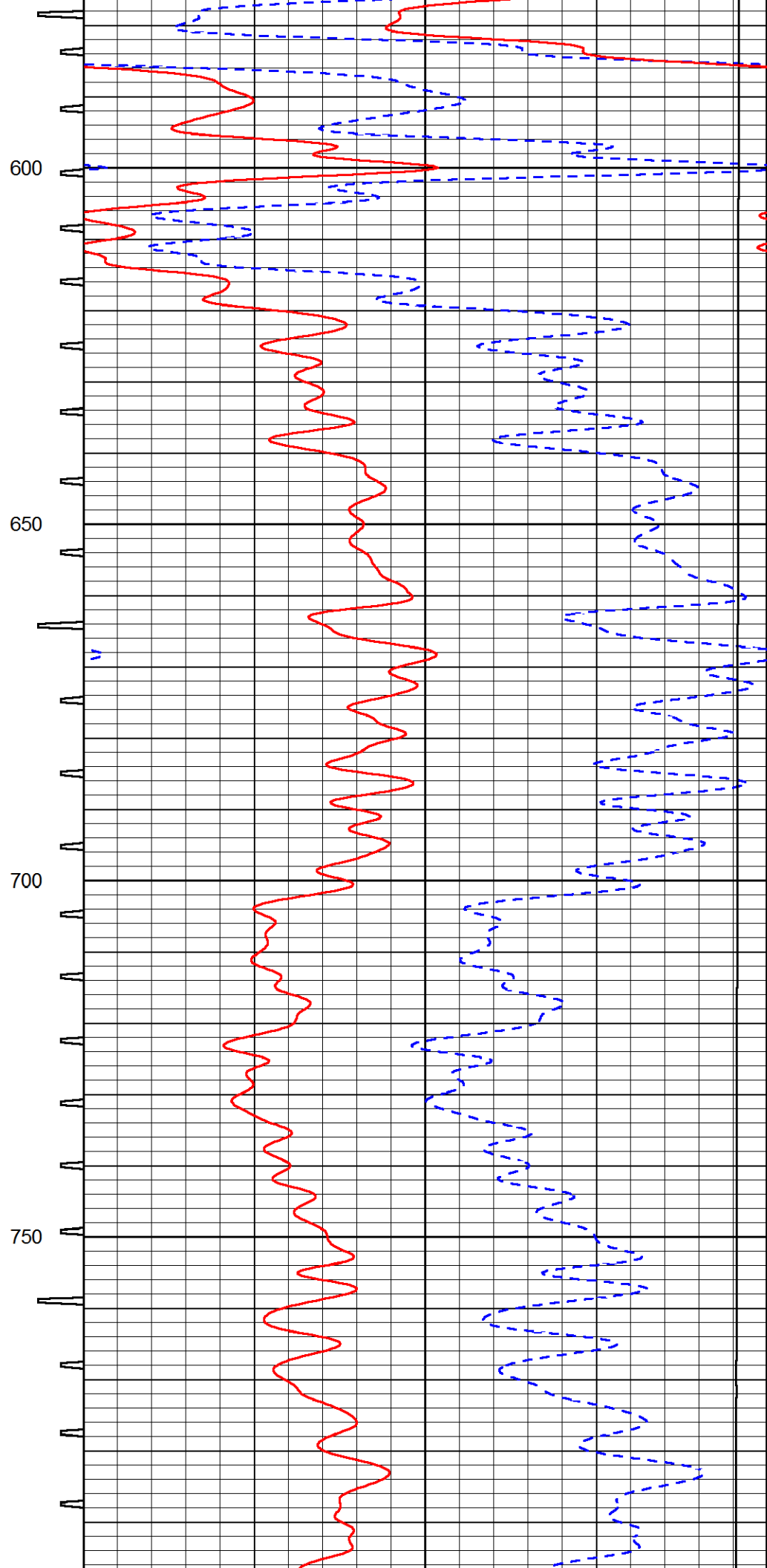
MAIN PASS

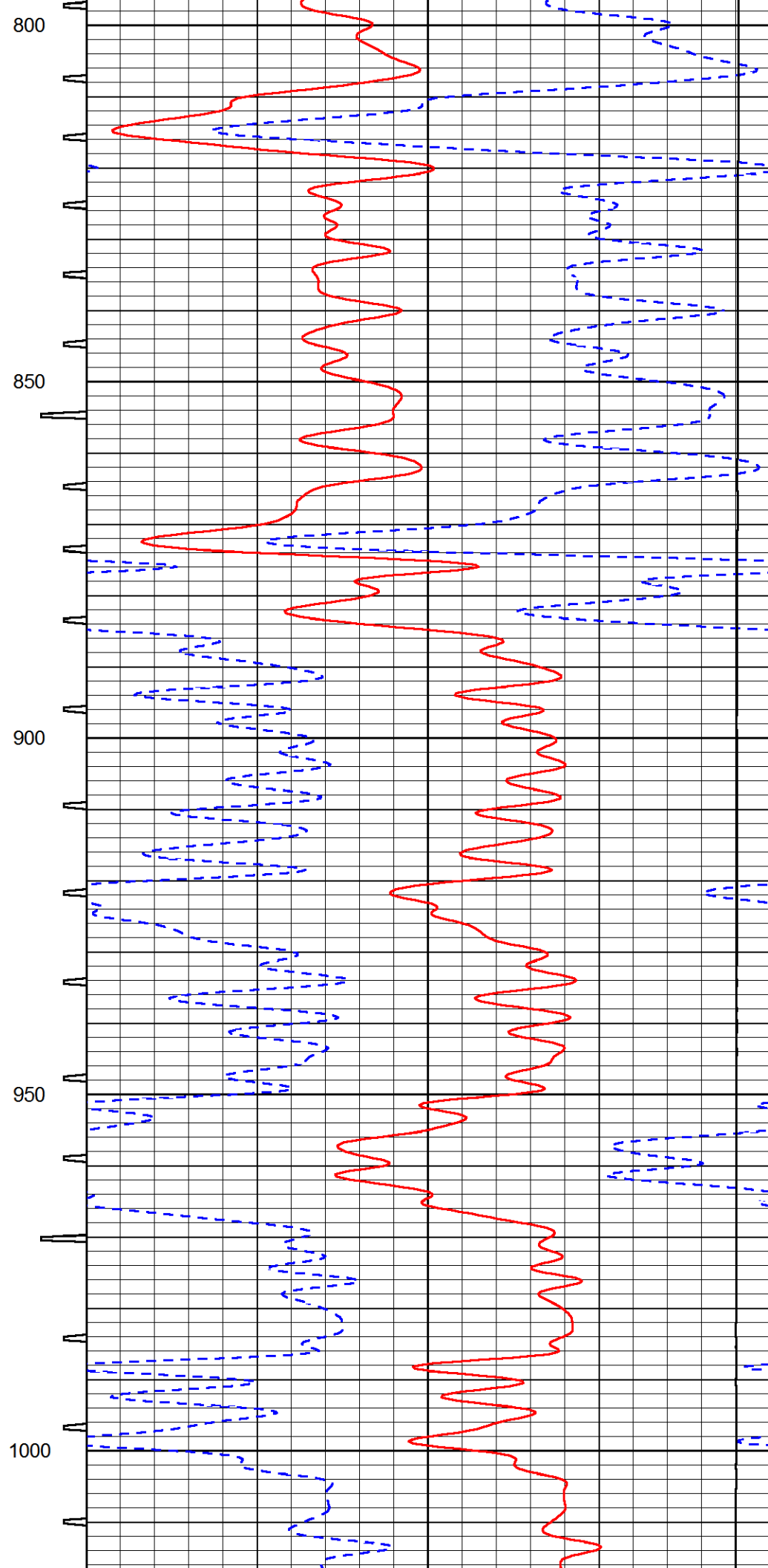
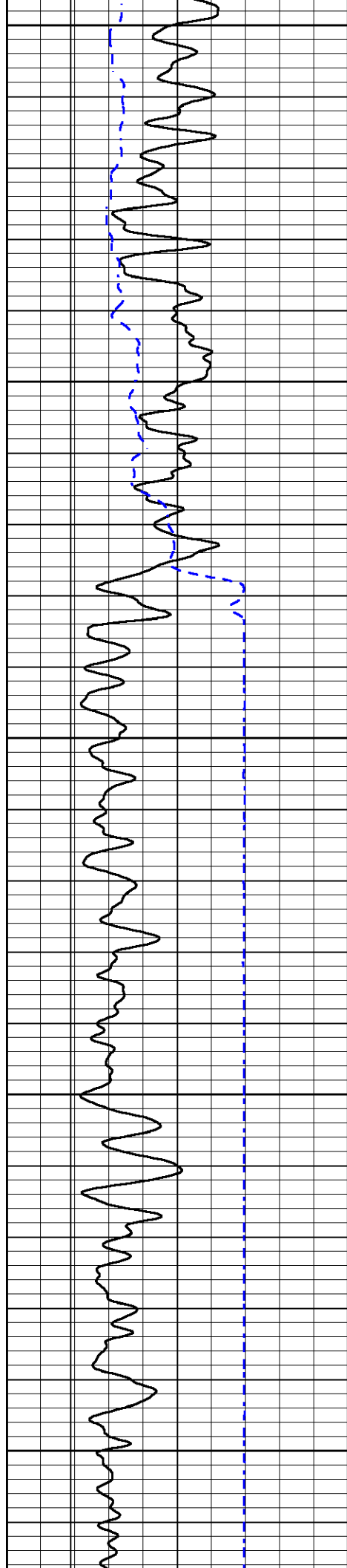
Database File	darrah_bronleewe_2_22.db		
Dataset Pathname	stack/pass5.1		
Presentation Format	sonic		
Dataset Creation	Tue Nov 06 13:03:25 2018		
Charted by	Depth in Feet scaled 1:240		

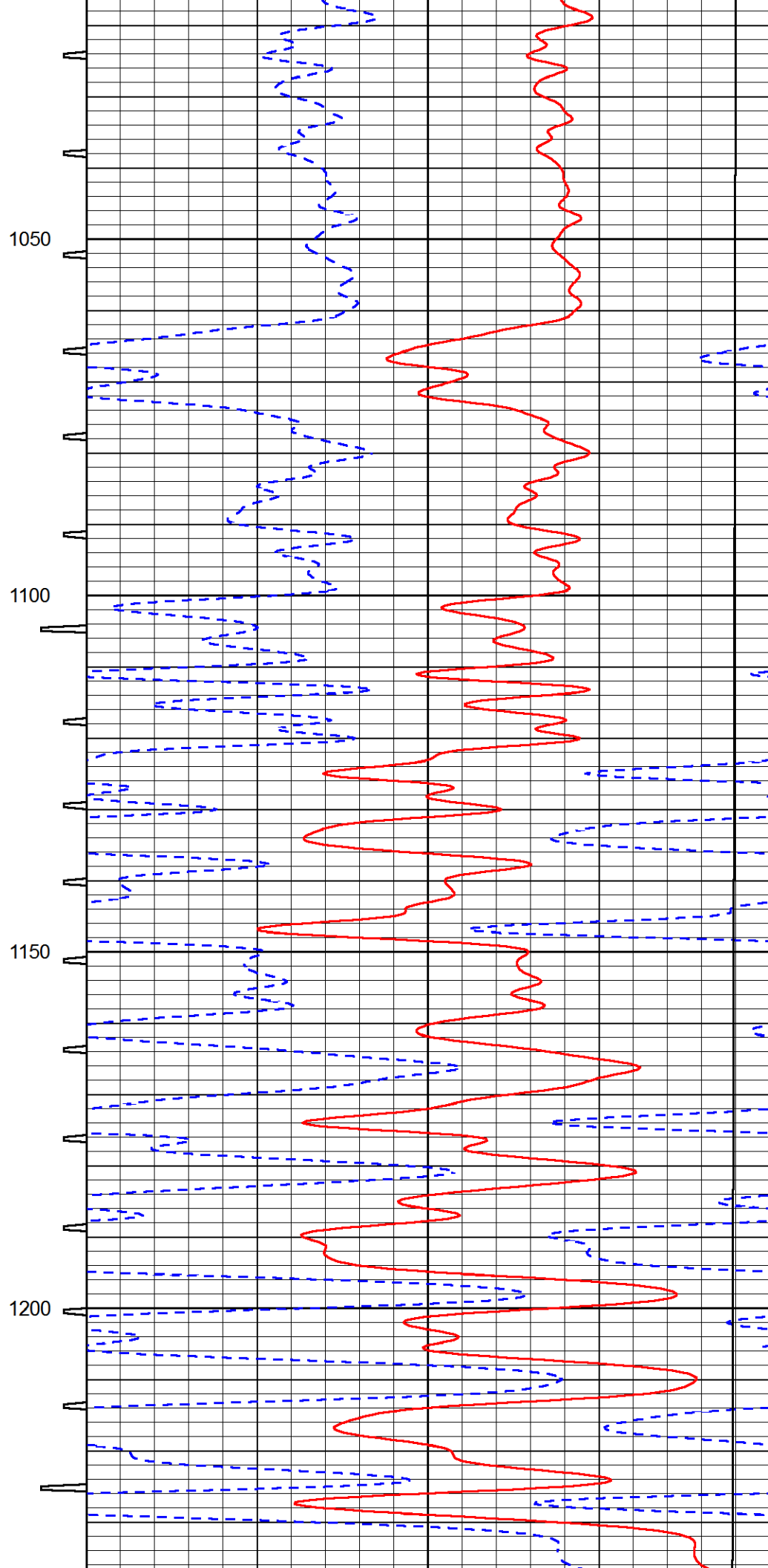
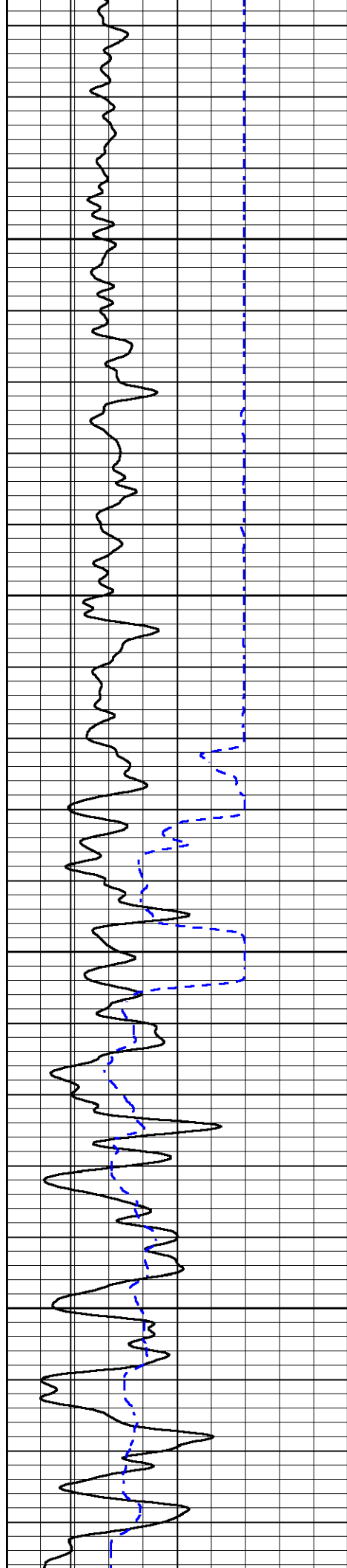
0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft)	40
6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

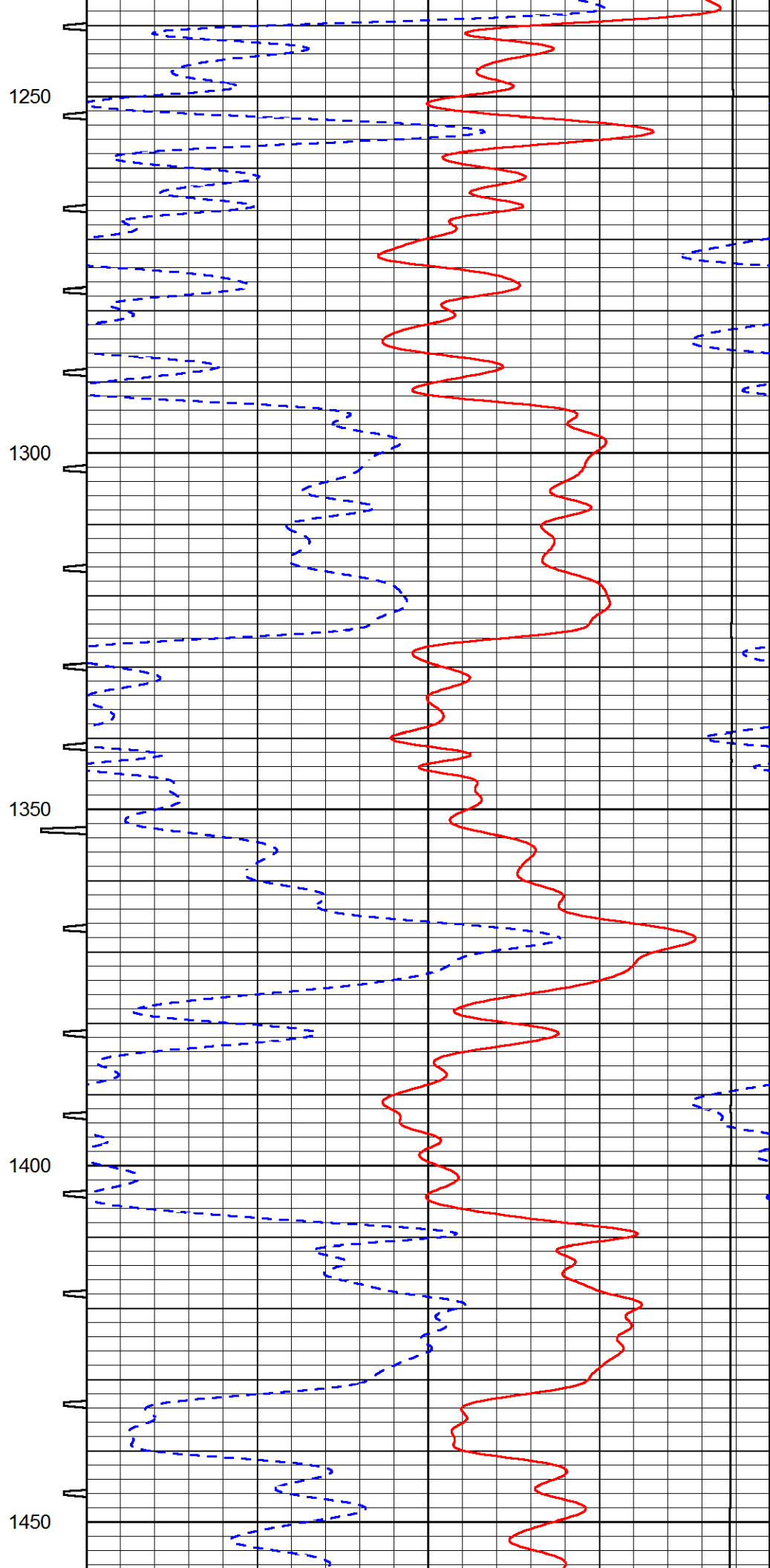
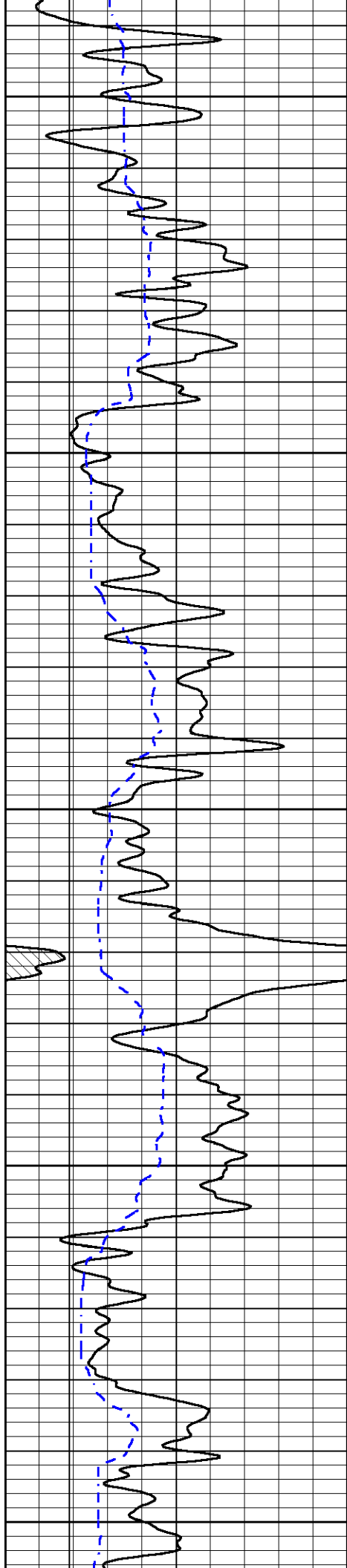


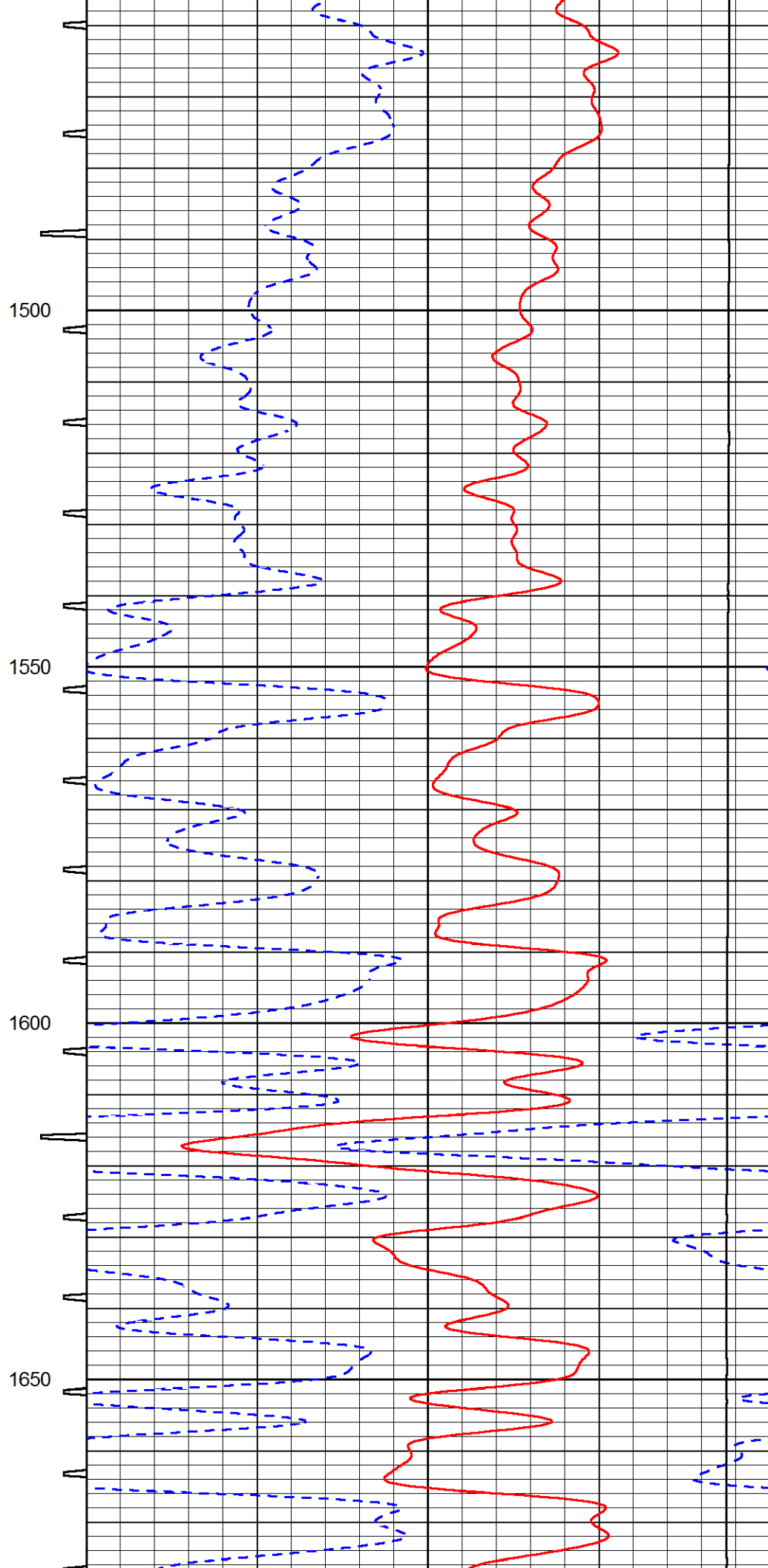
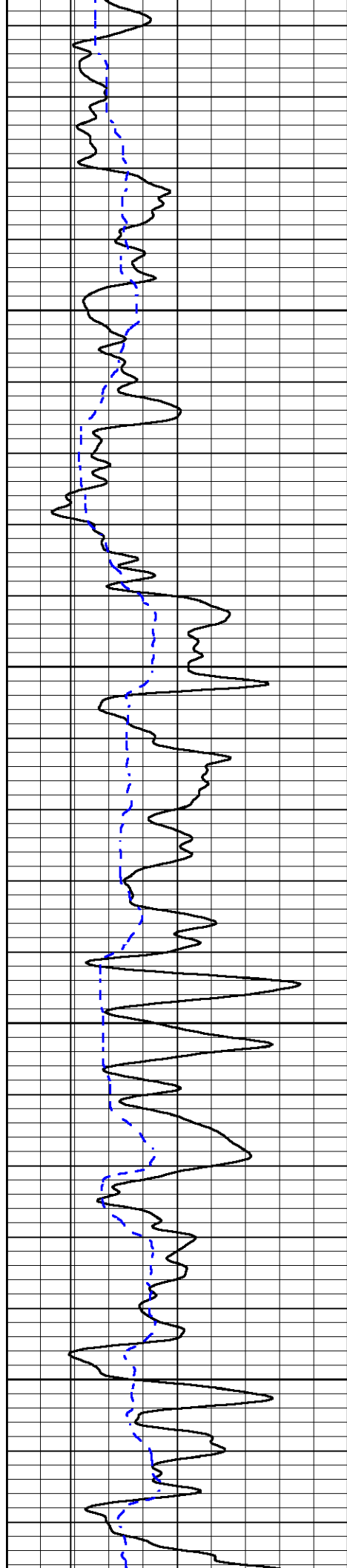


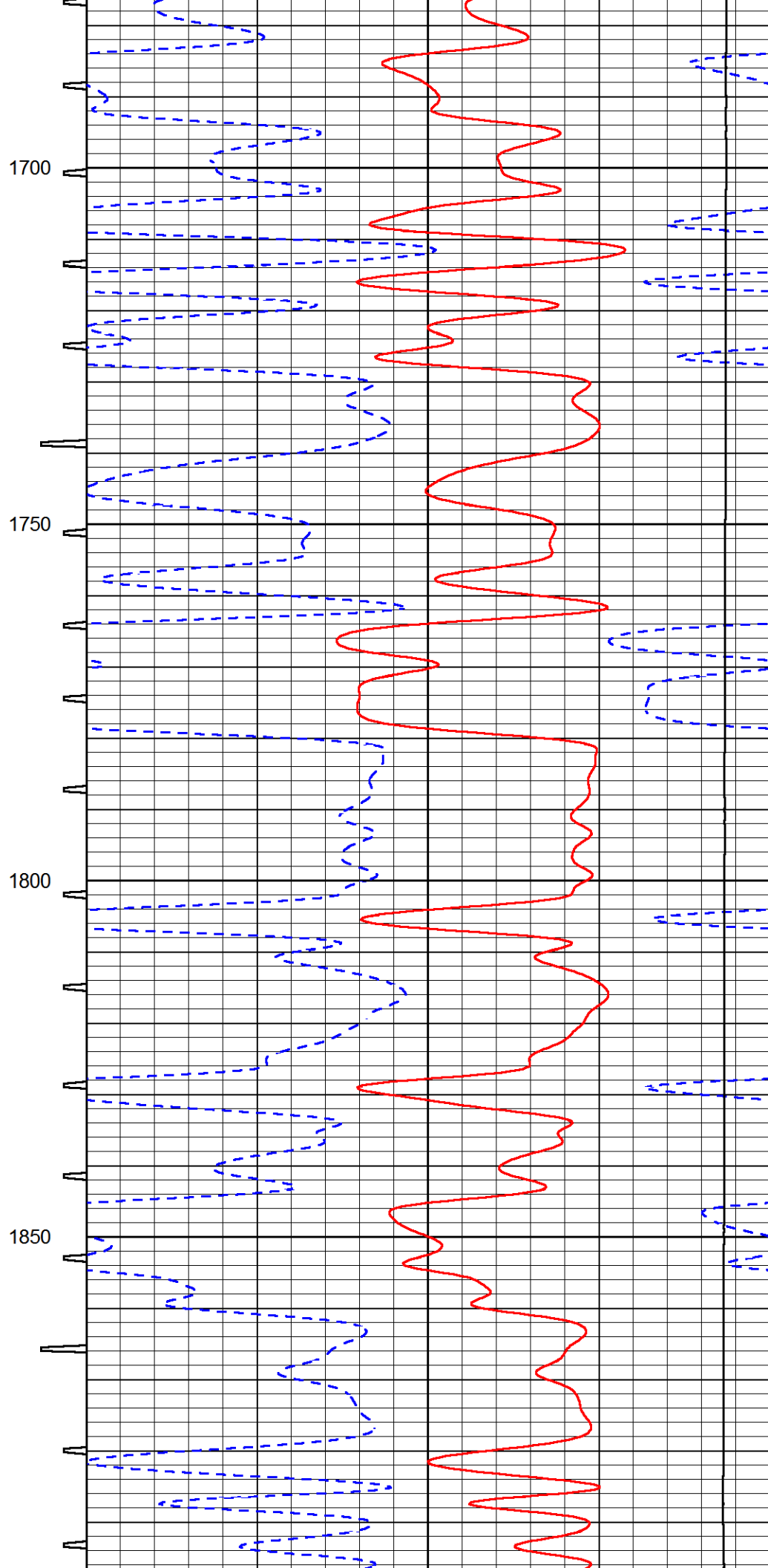
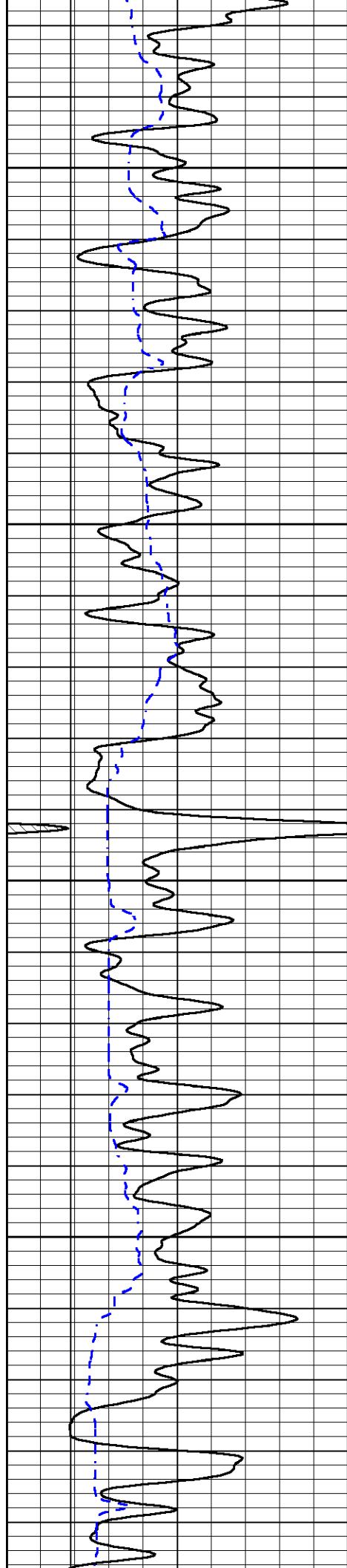


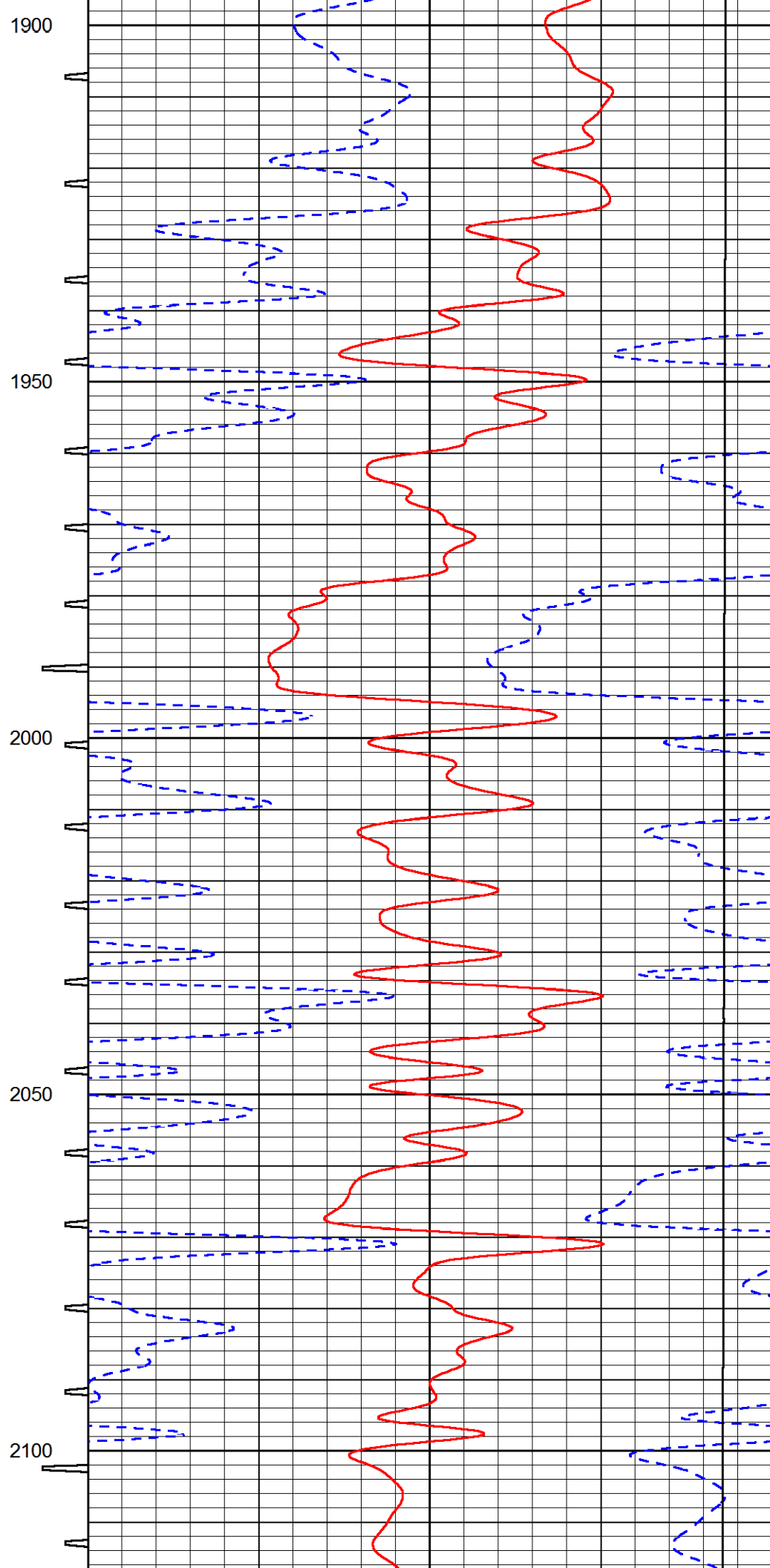
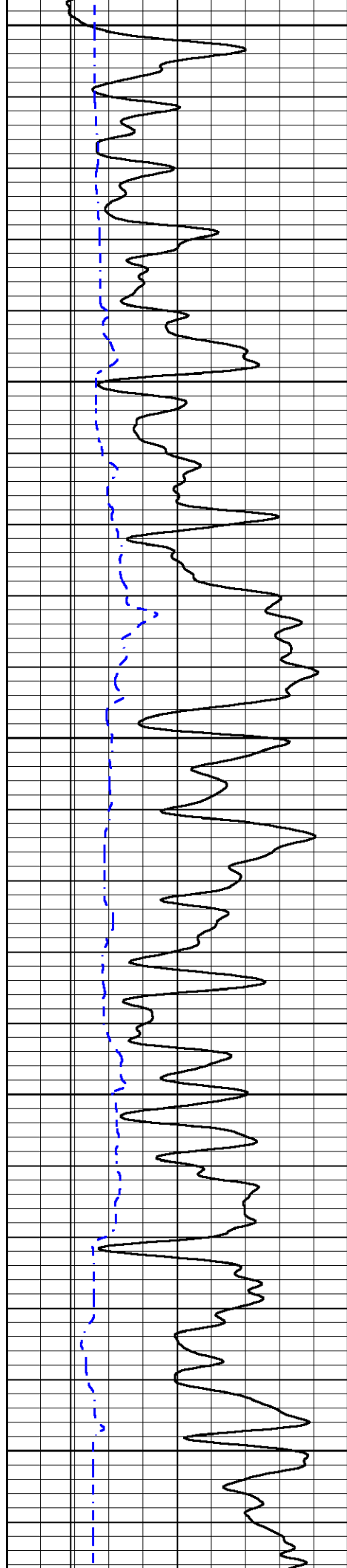


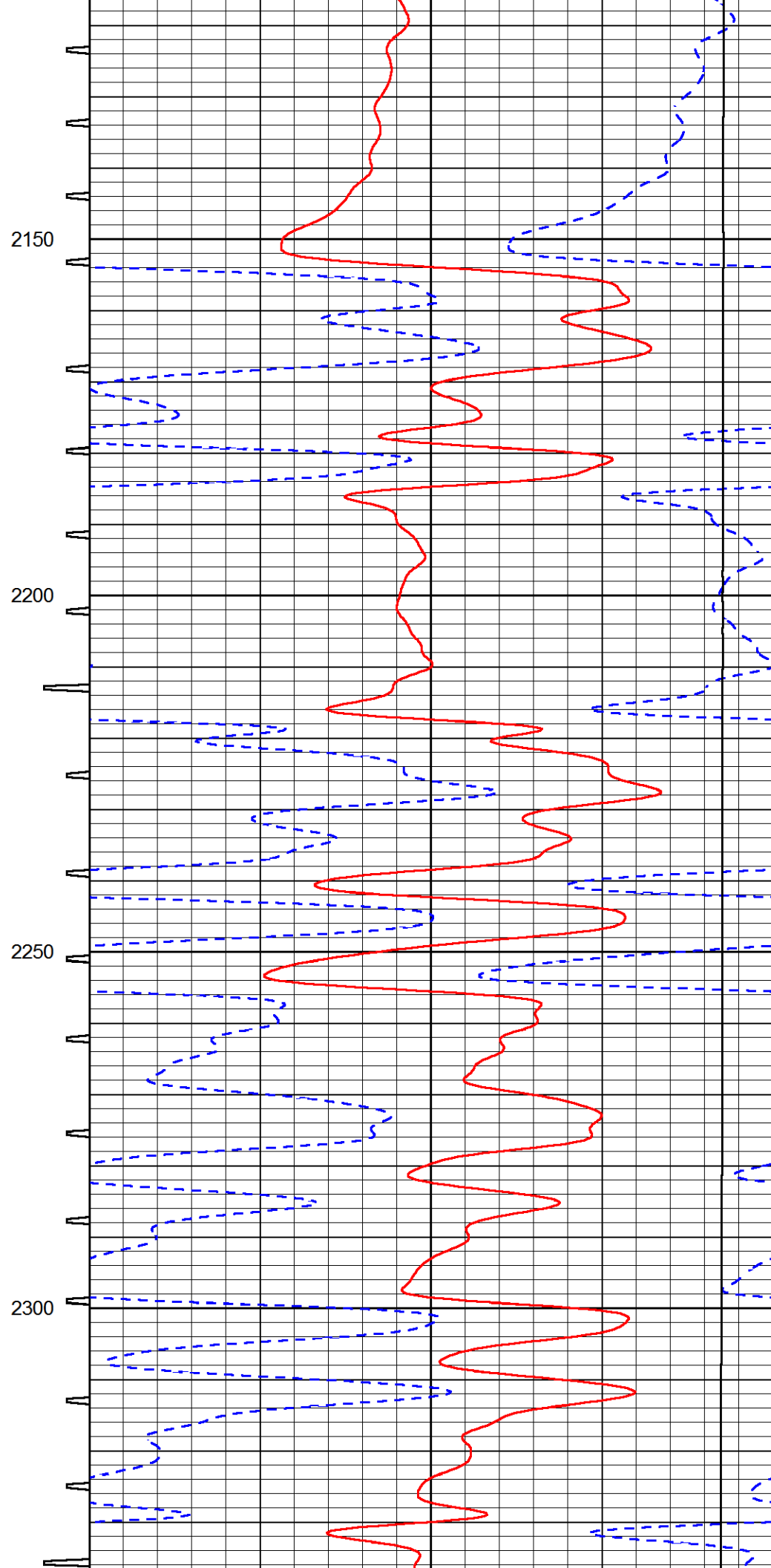
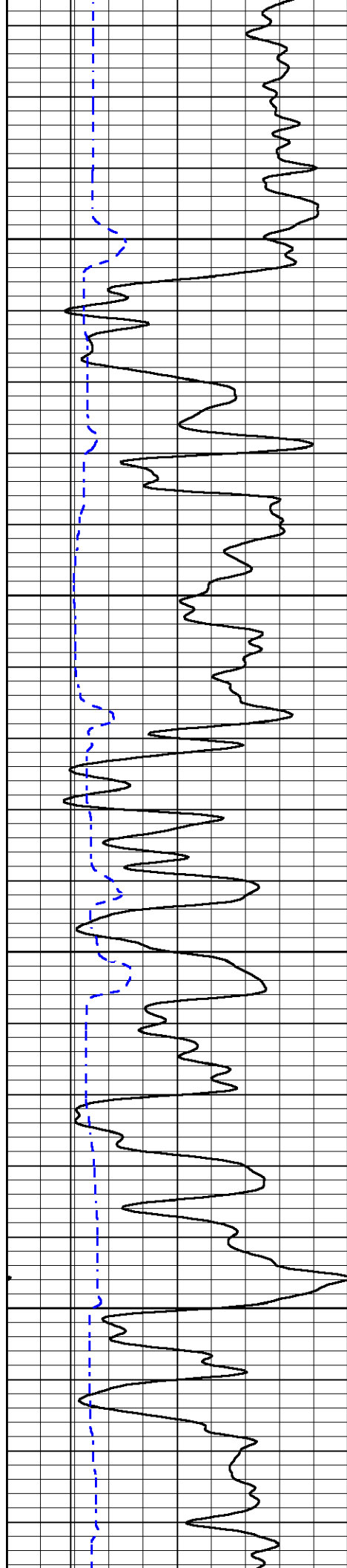


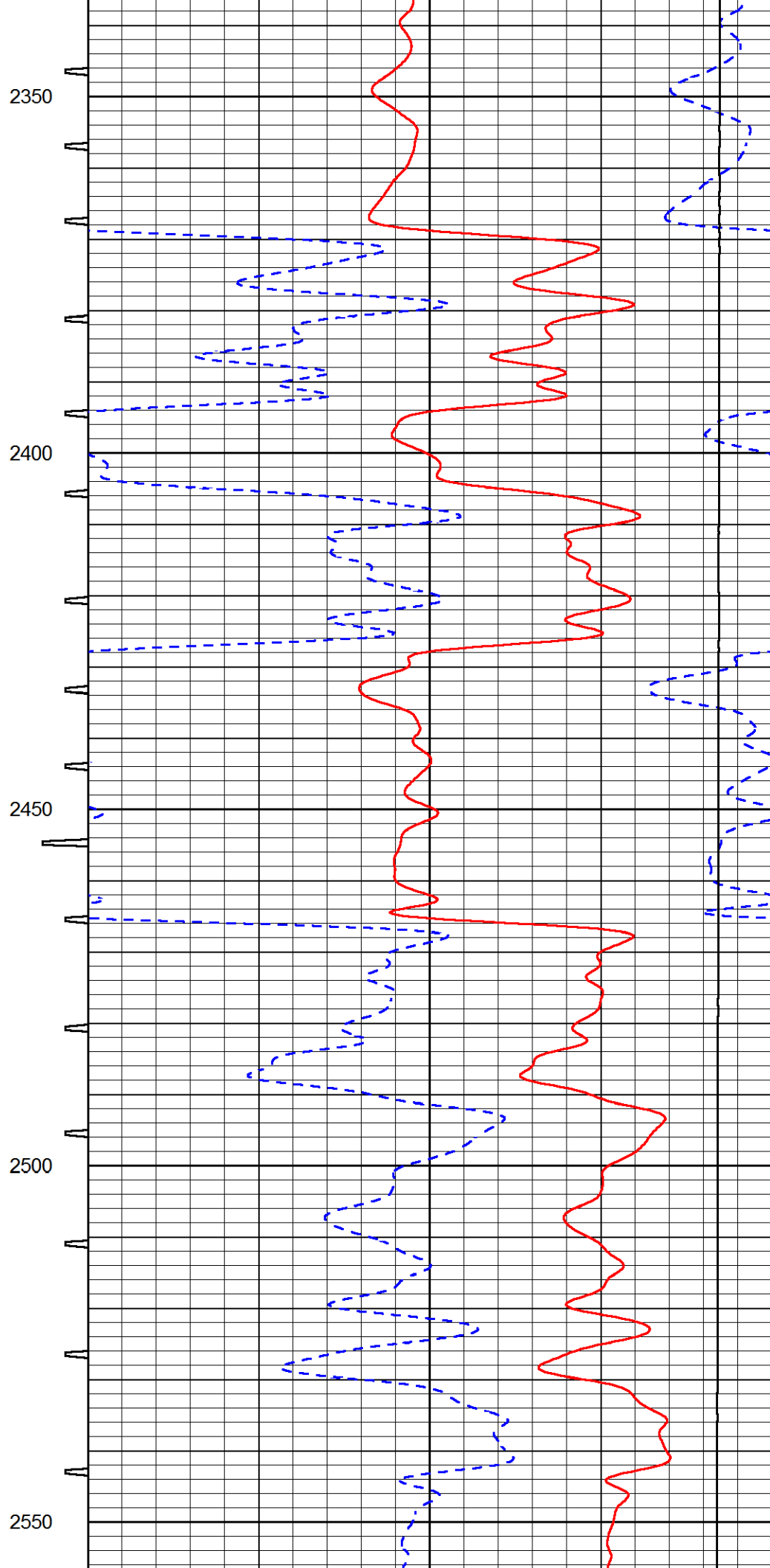
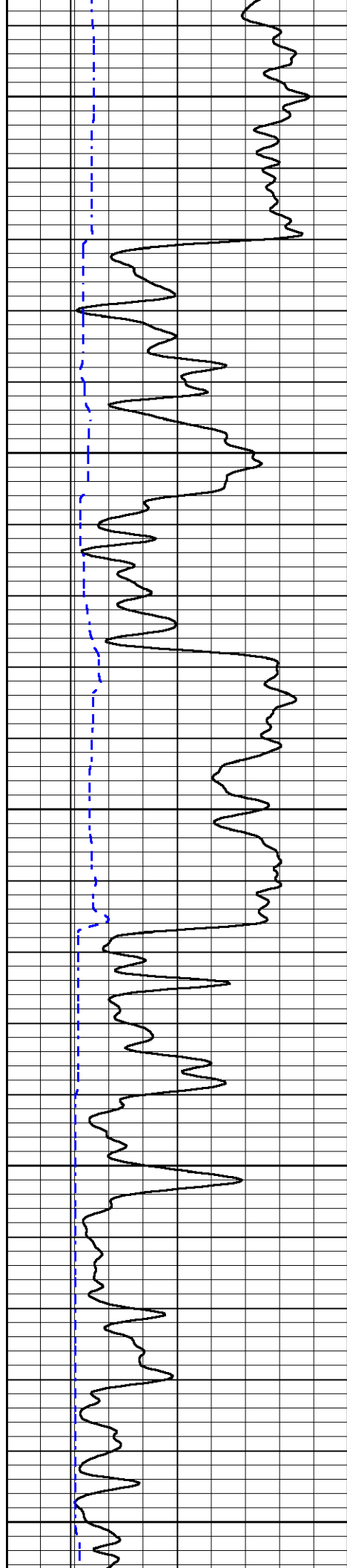


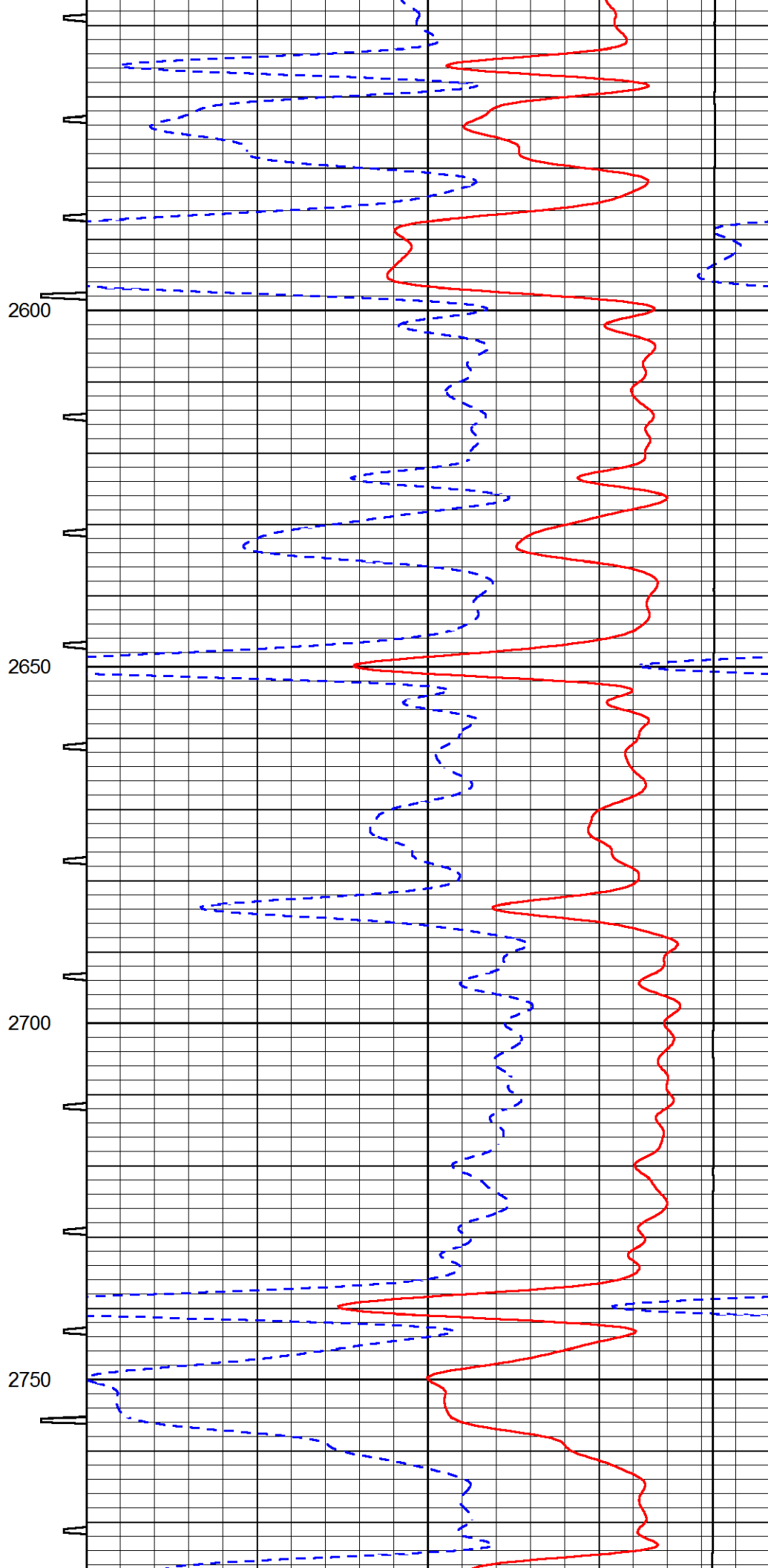
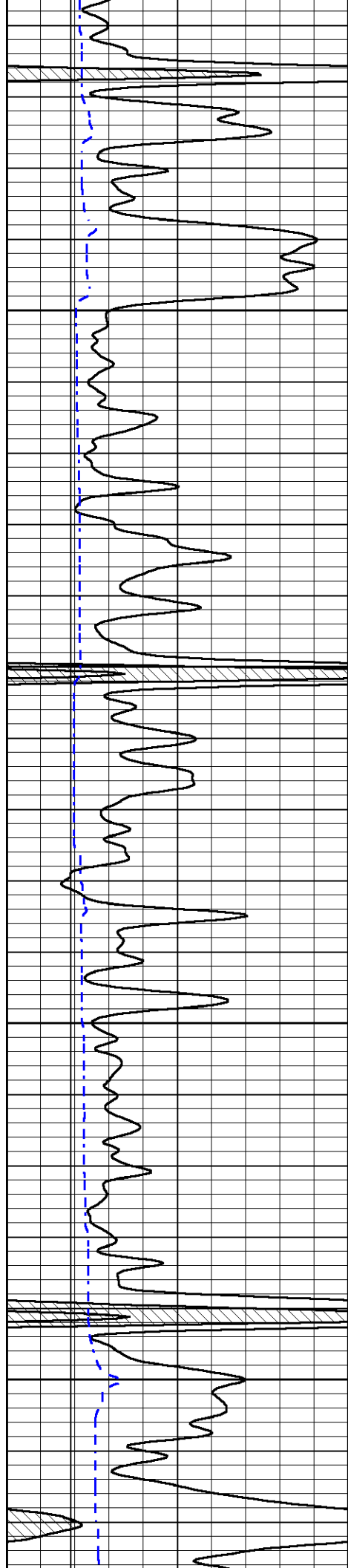


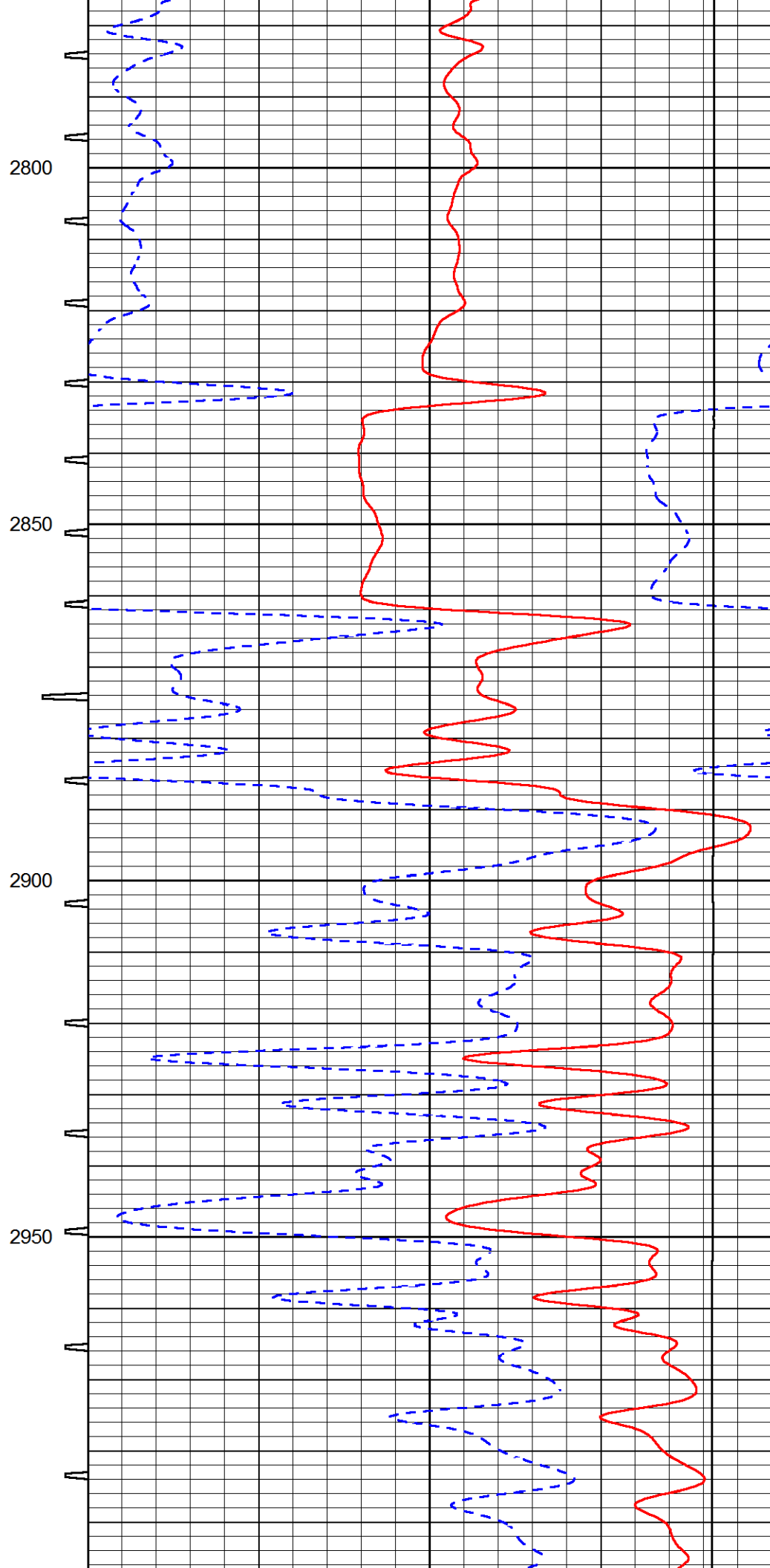
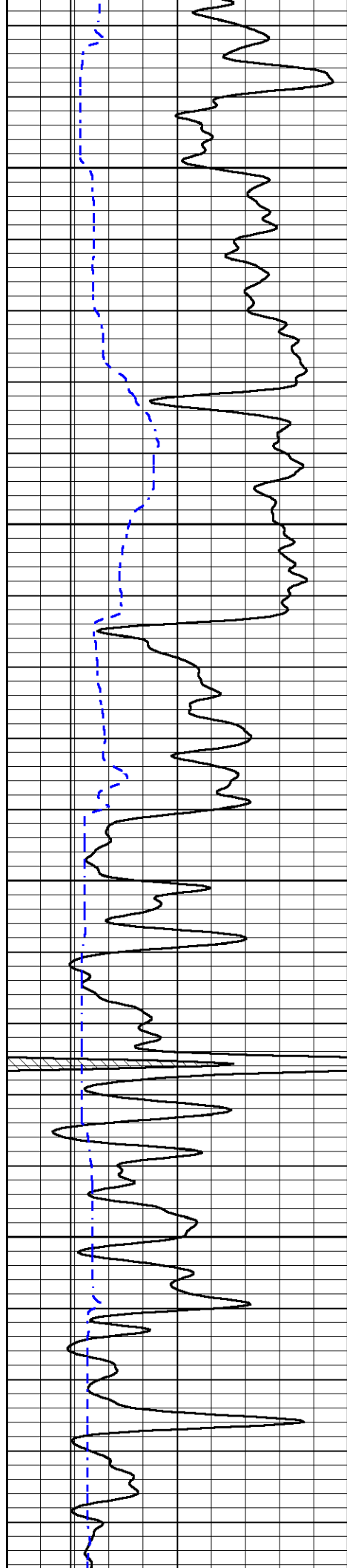


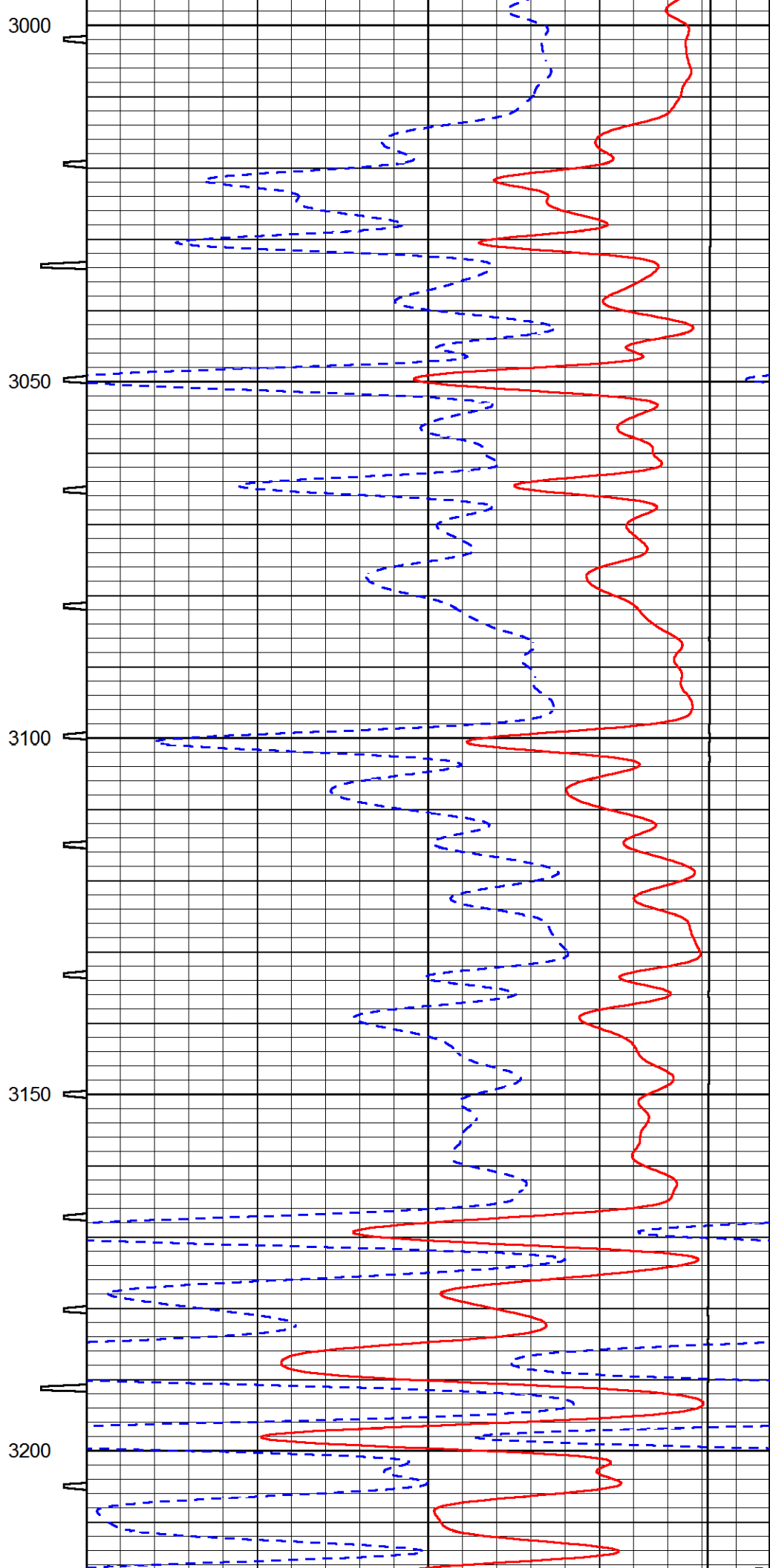
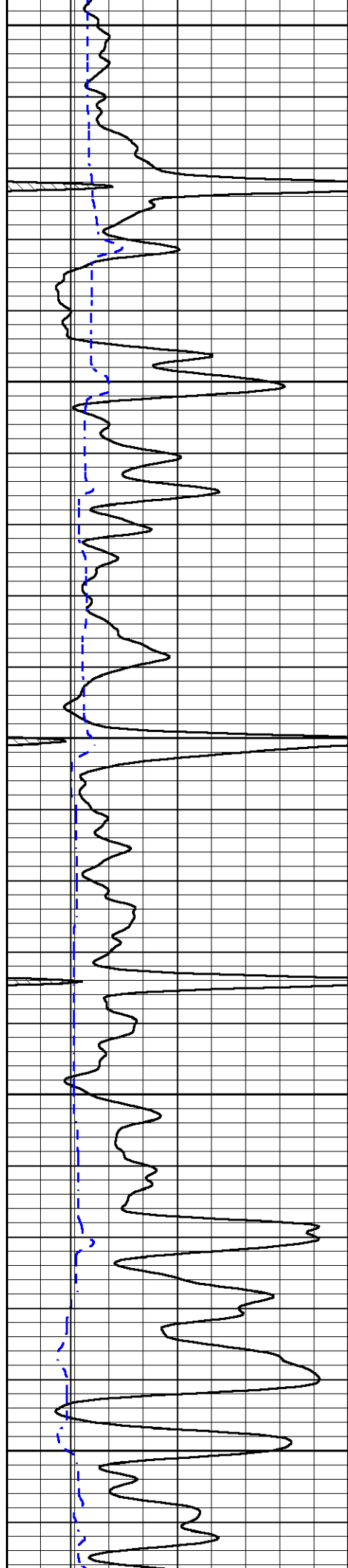


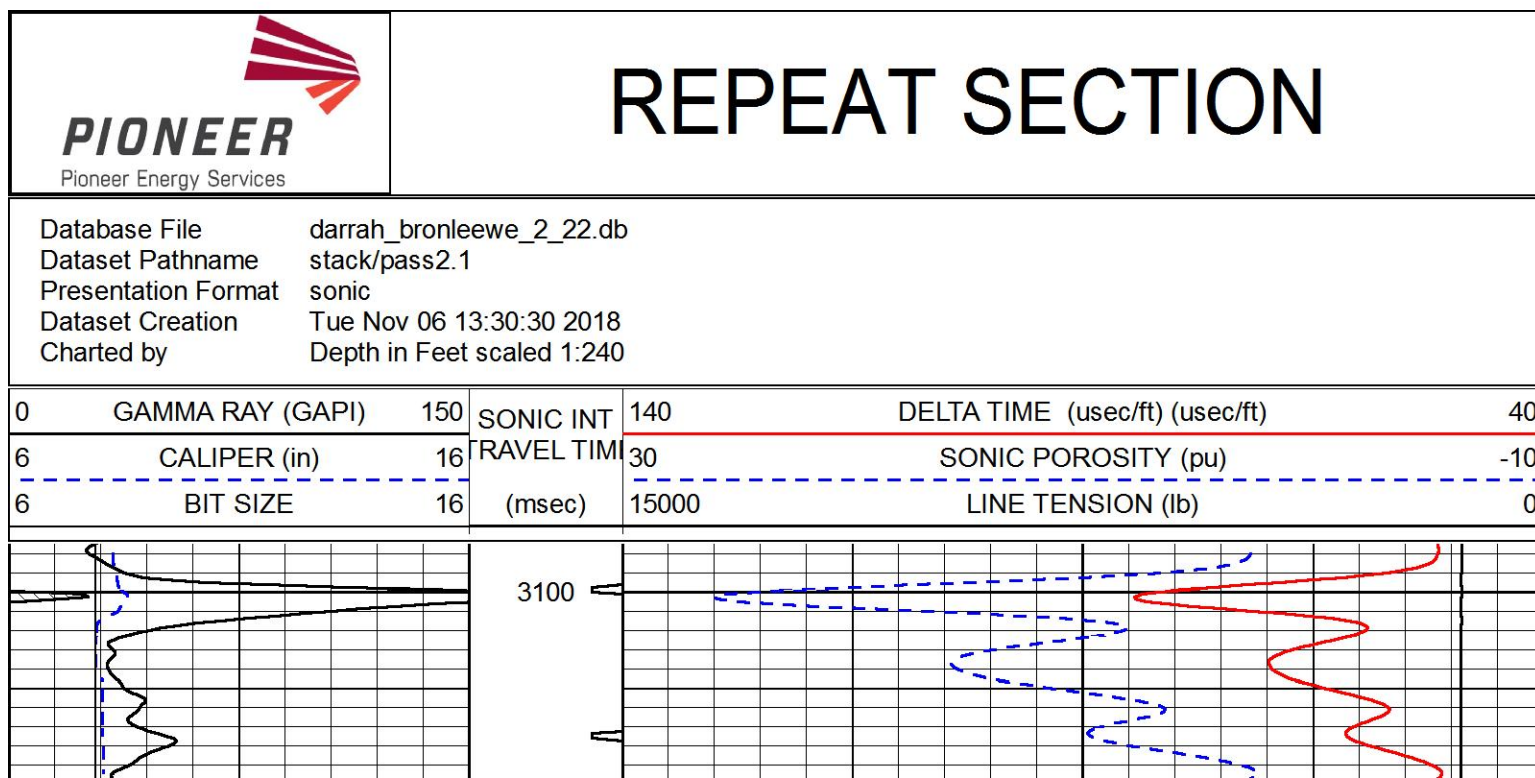
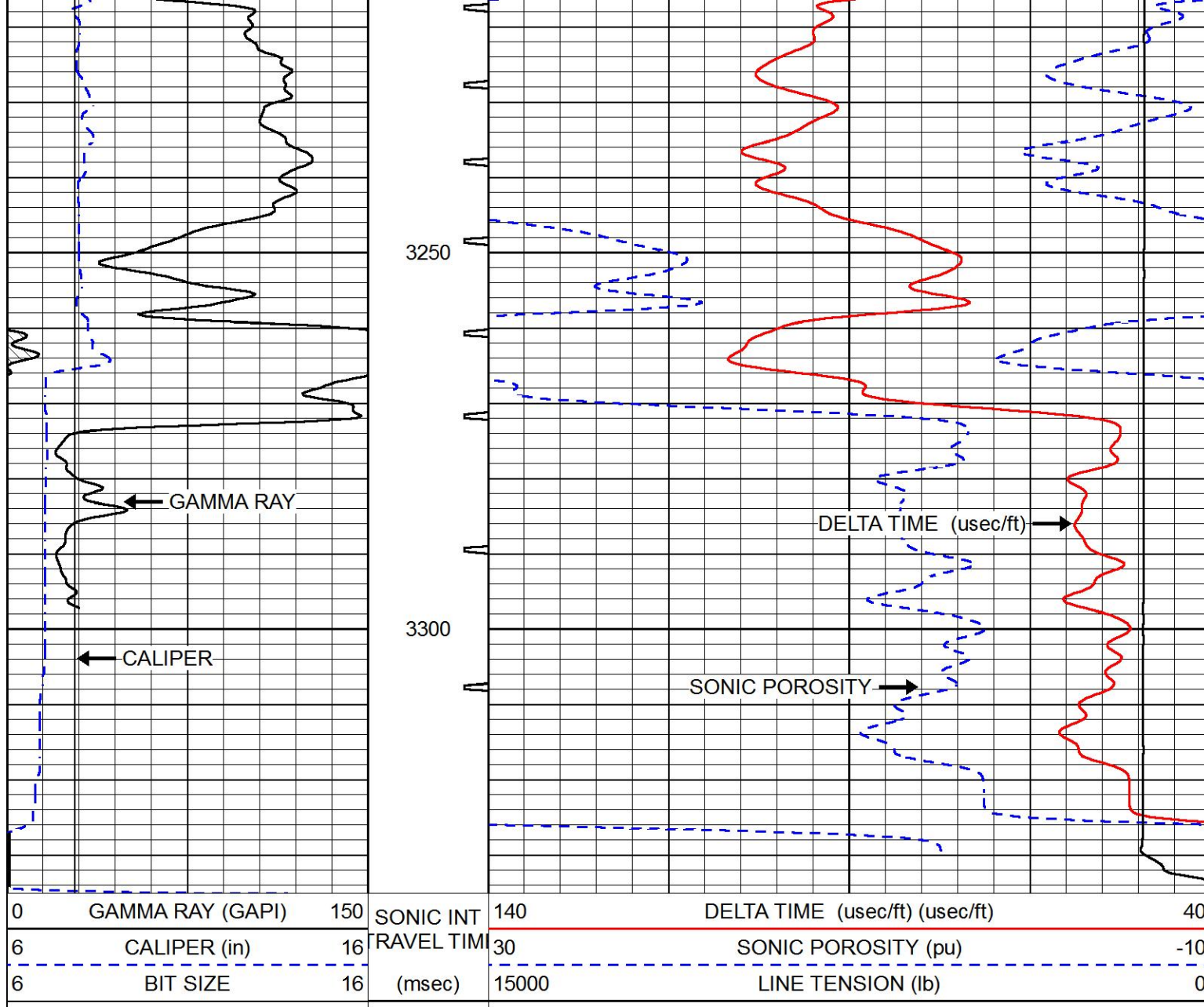


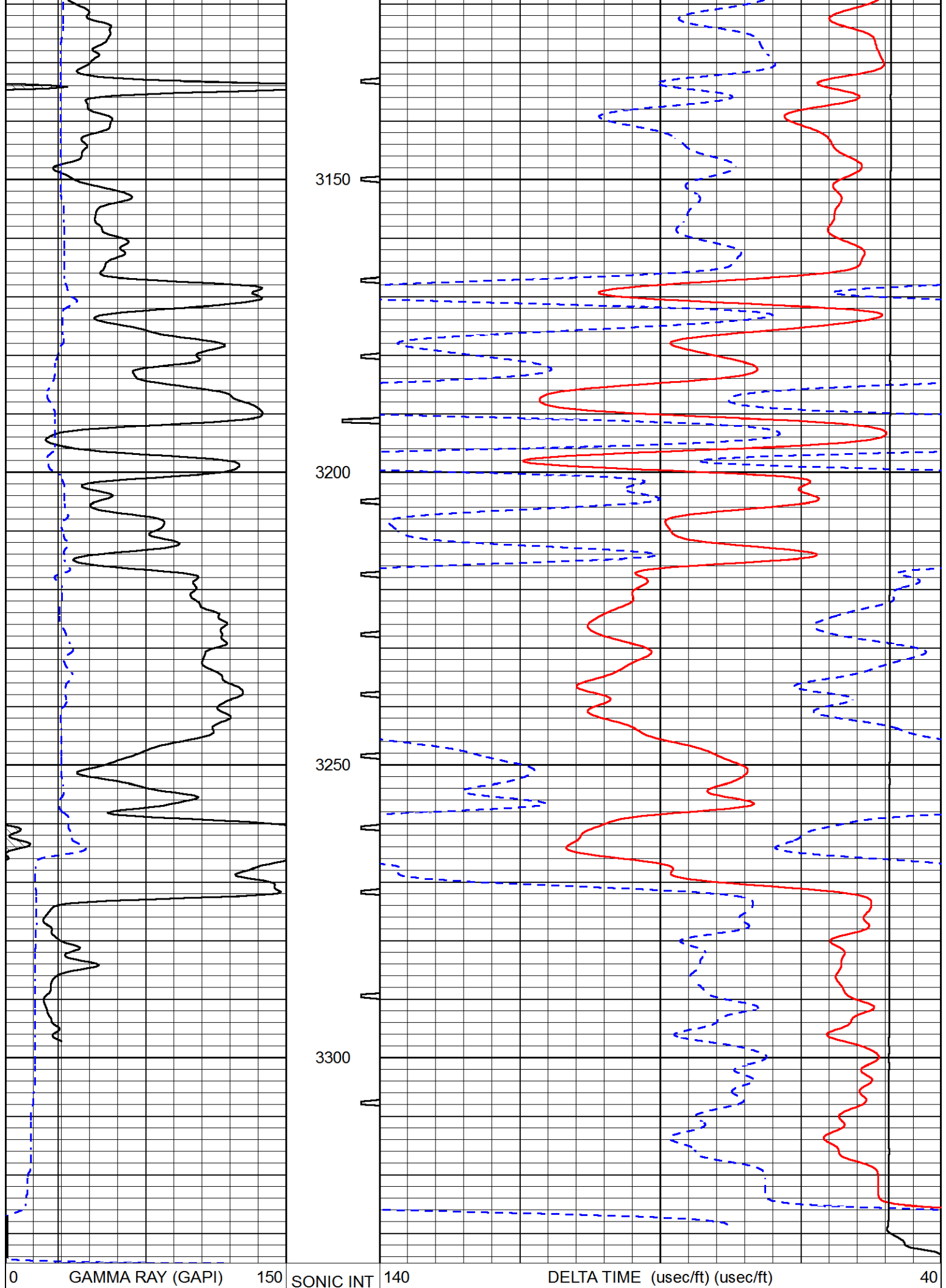












6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

 PIONEER Pioneer Energy Services	Company DARRAH OIL Well BRONLEEWEE NO. 2-22 Field RICKARD County RICE State KANSAS
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