

BOREHOLE COMPENSATED SONIC LOG

MIDWEST WIRELINE

Company Berexco LLC
Well Arnold Unit #16-1
Field Arroyo Northeast
County Stanton
State Kansas

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Well Arnold Unit #16-1
Field Arroyo Northeast
County Stanton State Kansas

Location: API #: 15-187-21364-00-00
SW SE SW SE
132 FSL & 1874 FEL
SEC 1 TWP 29S RGE 41W
Permanent Datum Ground Level Elevation 3340
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
CNL/CDL
DIL/MEL
K.B. 3353
D.F.
G.L. 3340

Date 7/7/2026

Run Number Two
Type Log BHCS
Depth Driller 5600
Depth Logger 5601
Bottom Logged Interval 5589
Top Logged Interval 1700
Type Fluid In Hole Chemical
Salinity, PPM CL 2000
Density 8.8
Level Full
Max. Rec. Temp. F 132
Operating Rig Time 5 Hours
Equipment -- Location 110 HAYS
Recorded By D. Schmidt
Witnessed By Macklin Armstrong

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	1732	8.625	23	0	1732
Two	7.875	1732	TD				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline 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,
South on Hwy 27 to Rd 14, 2/3 East,
North into

Log Measured From: Kelly Bushing 13 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Macklin Armstrong
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\berexco_arnold unit 16-1.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 132	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m 0	SPSHIFT mV 160	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 5601		

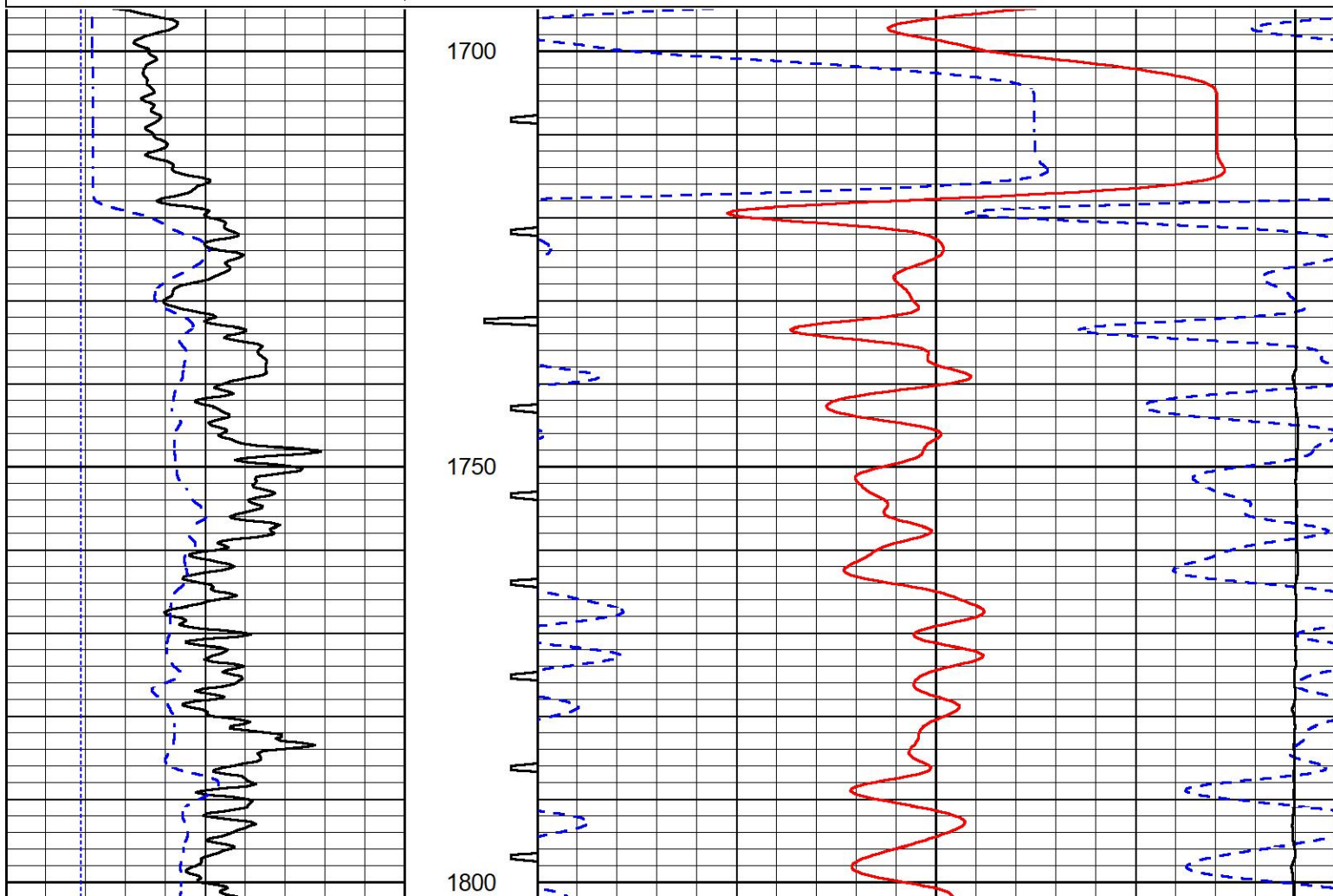


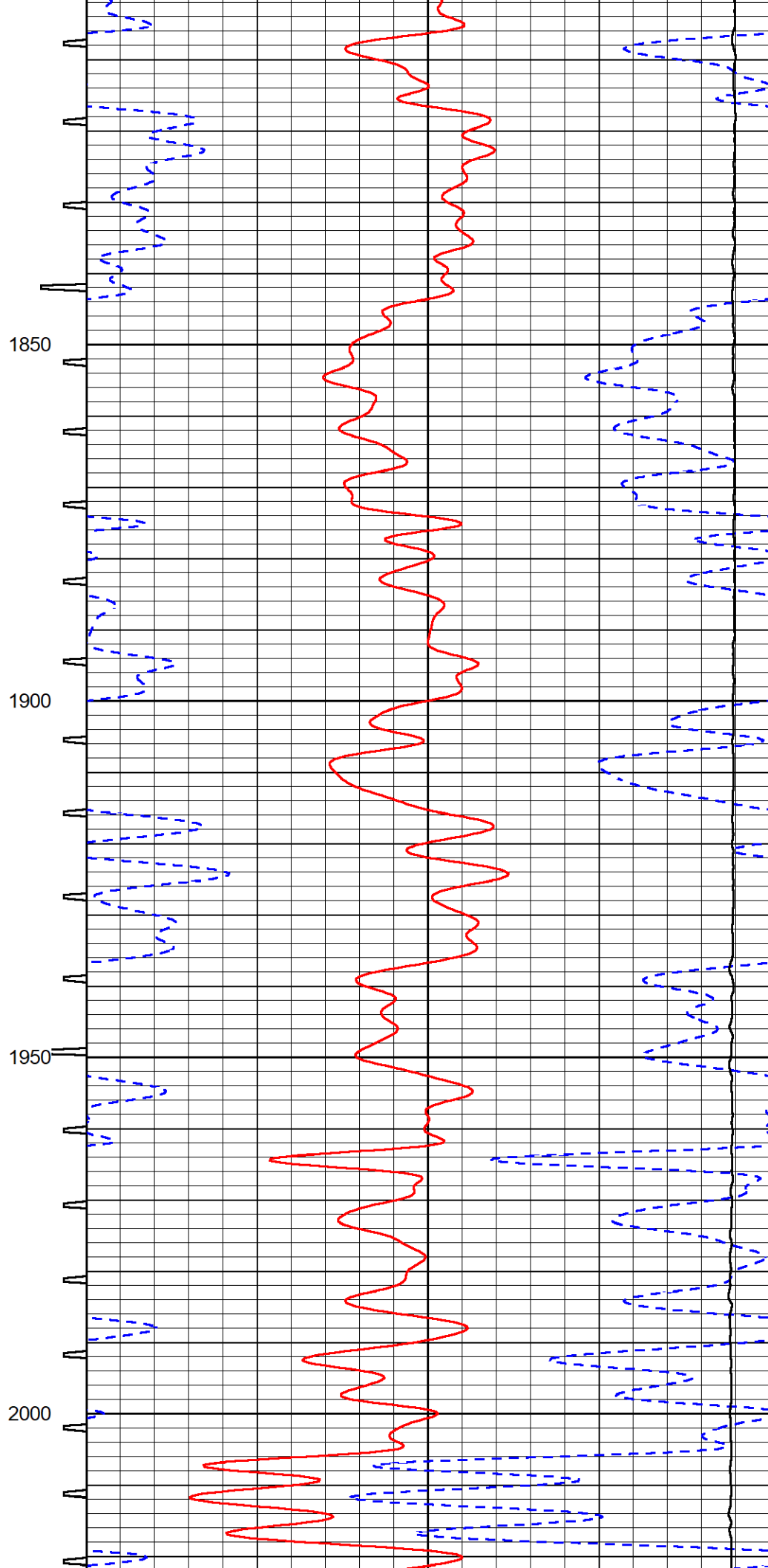
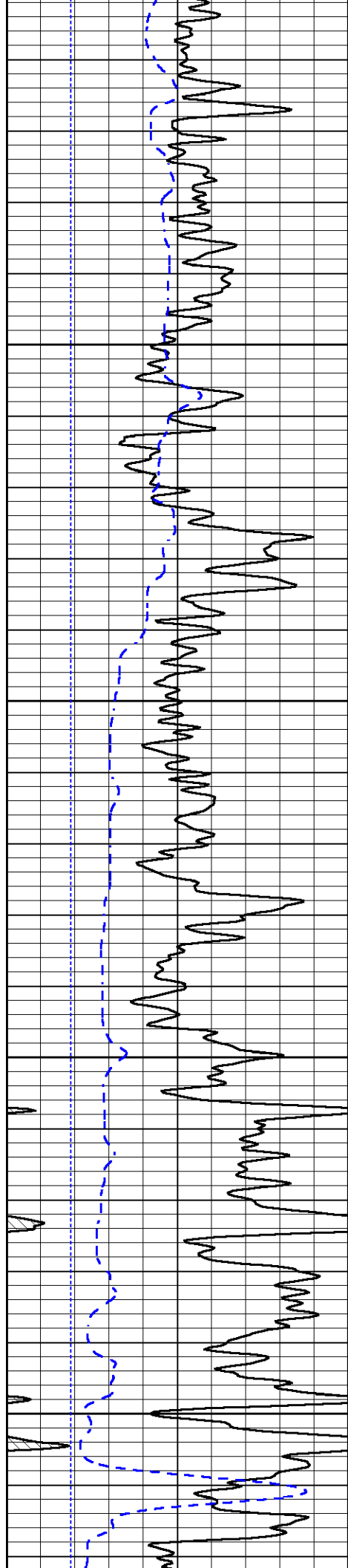
DETAIL SECTION

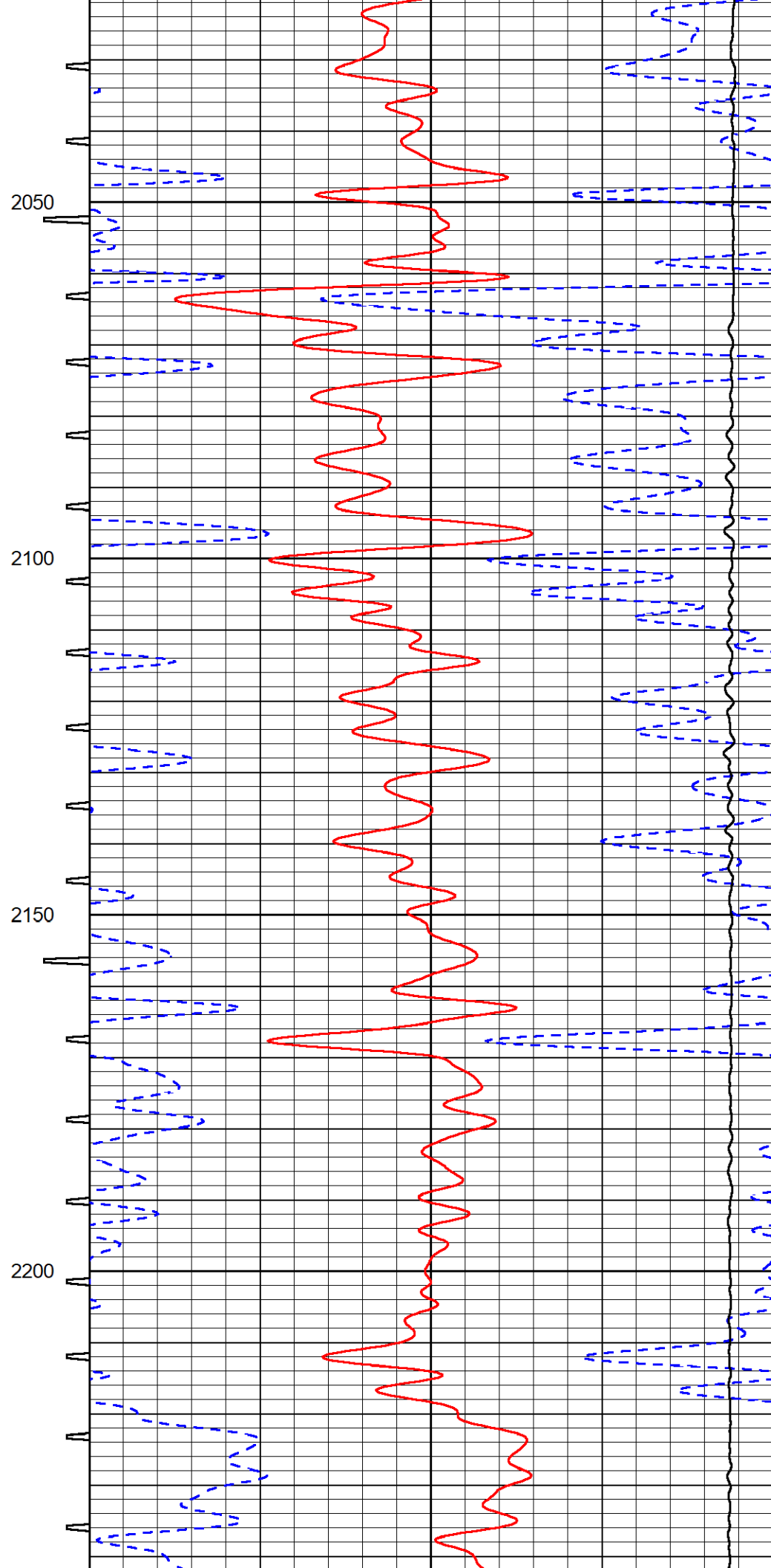
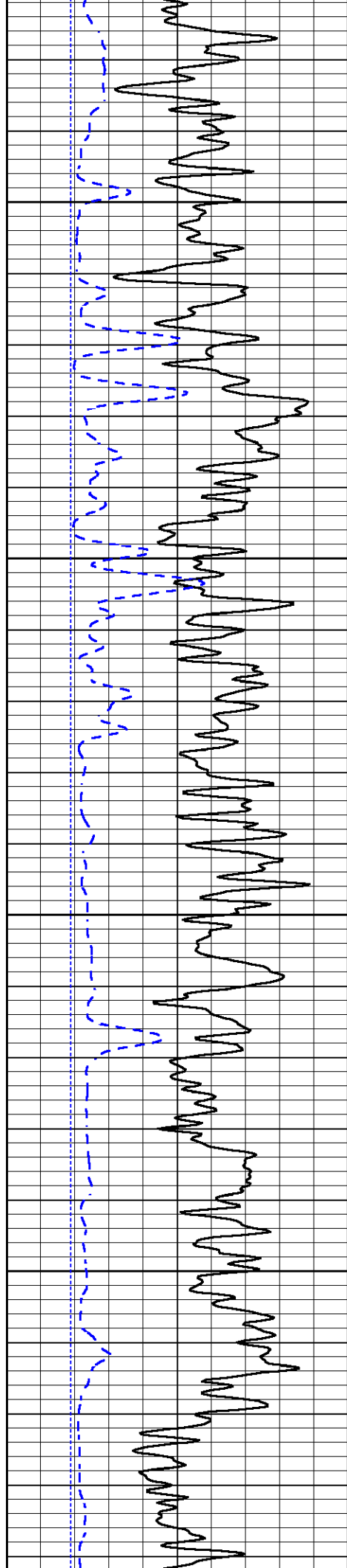
MAIN PASS

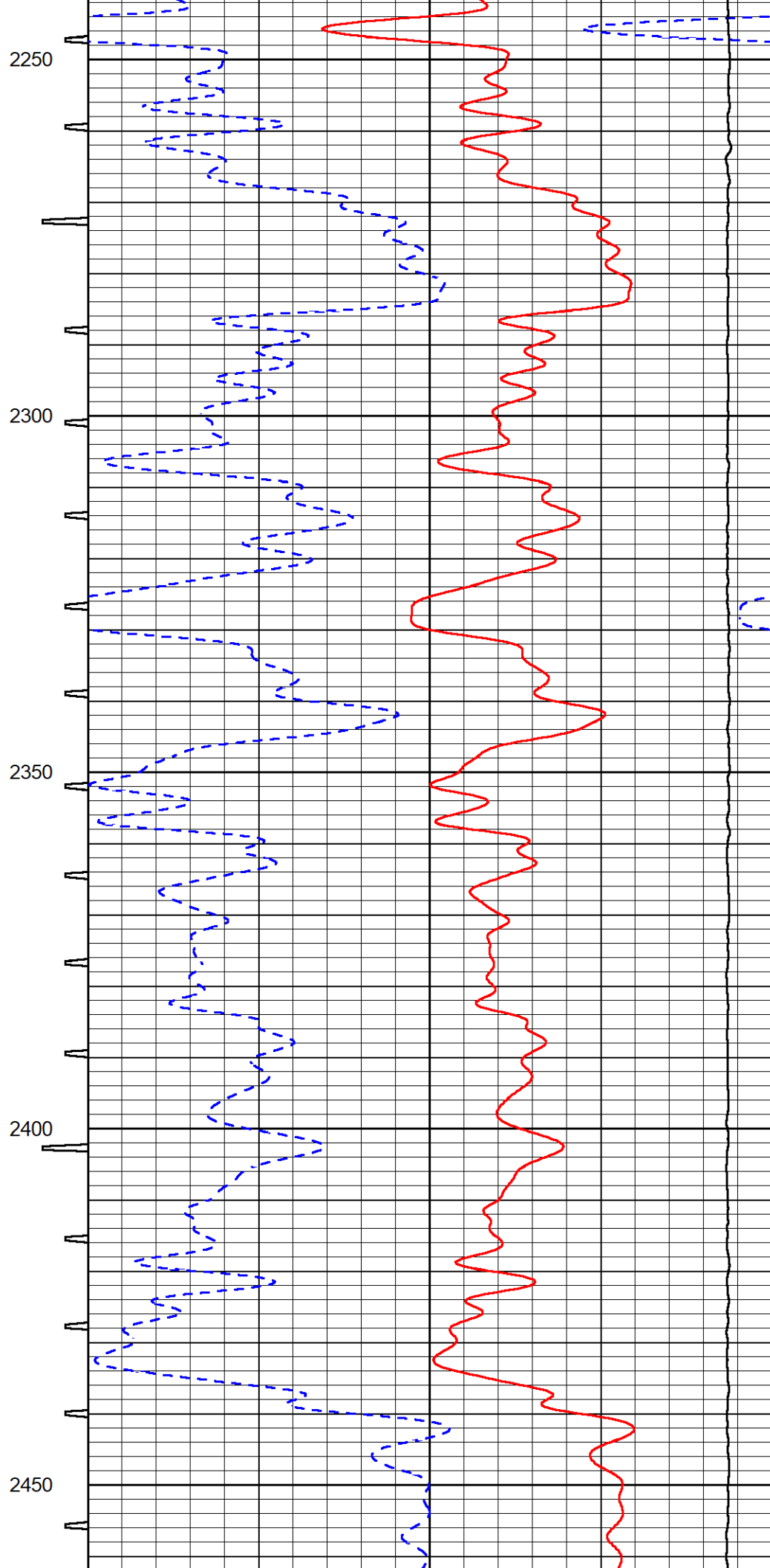
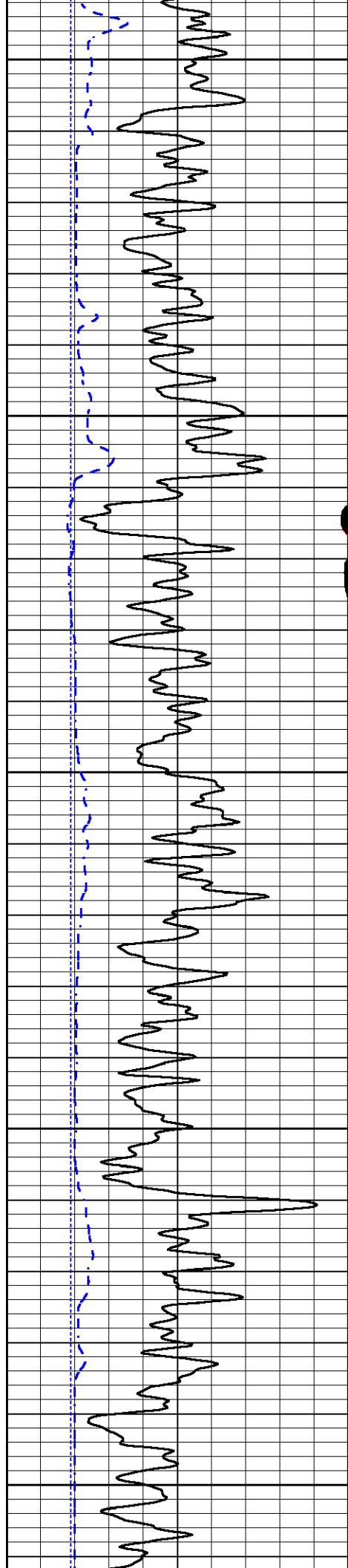
Database File berexco_arnold unit 16-1.db
Dataset Pathname stack/pass3.1
Presentation Format _sonic
Dataset Creation Wed Jul 08 01:57:30 2026
Charted by Depth in Feet scaled 1:240

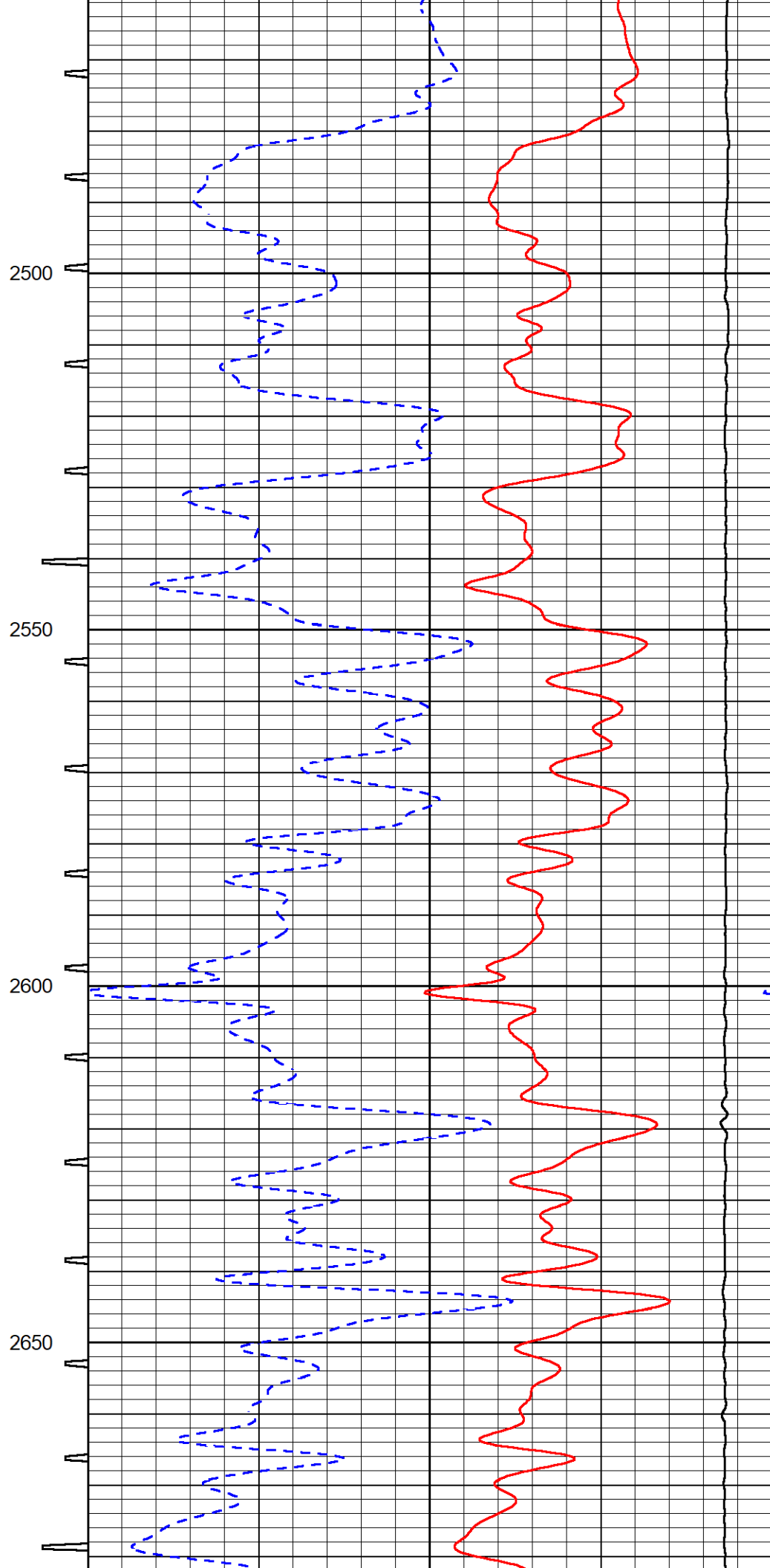
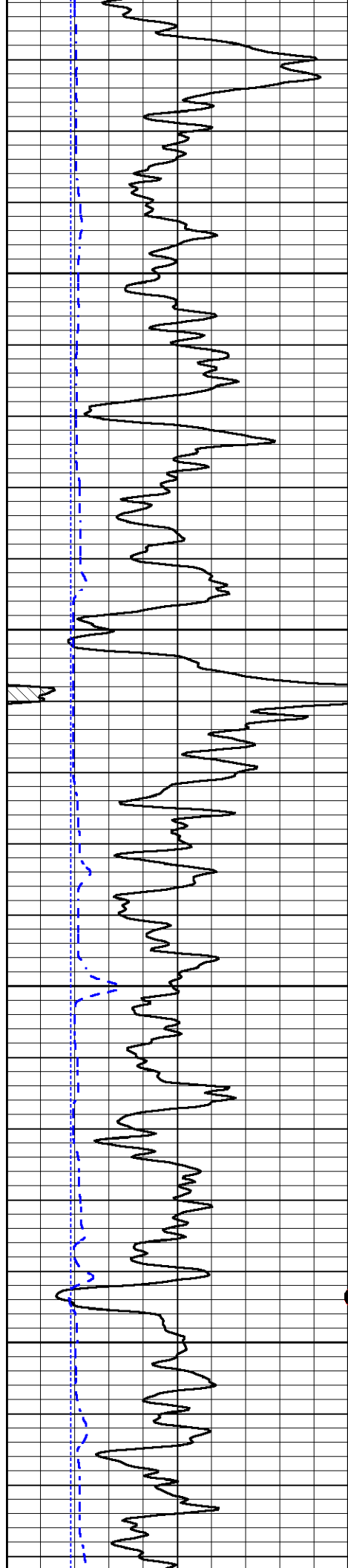
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu)	-10
6	LCAL (in)	16		15000	Line Tension (lb)	0
2.875	LCAL (in)	7.875				

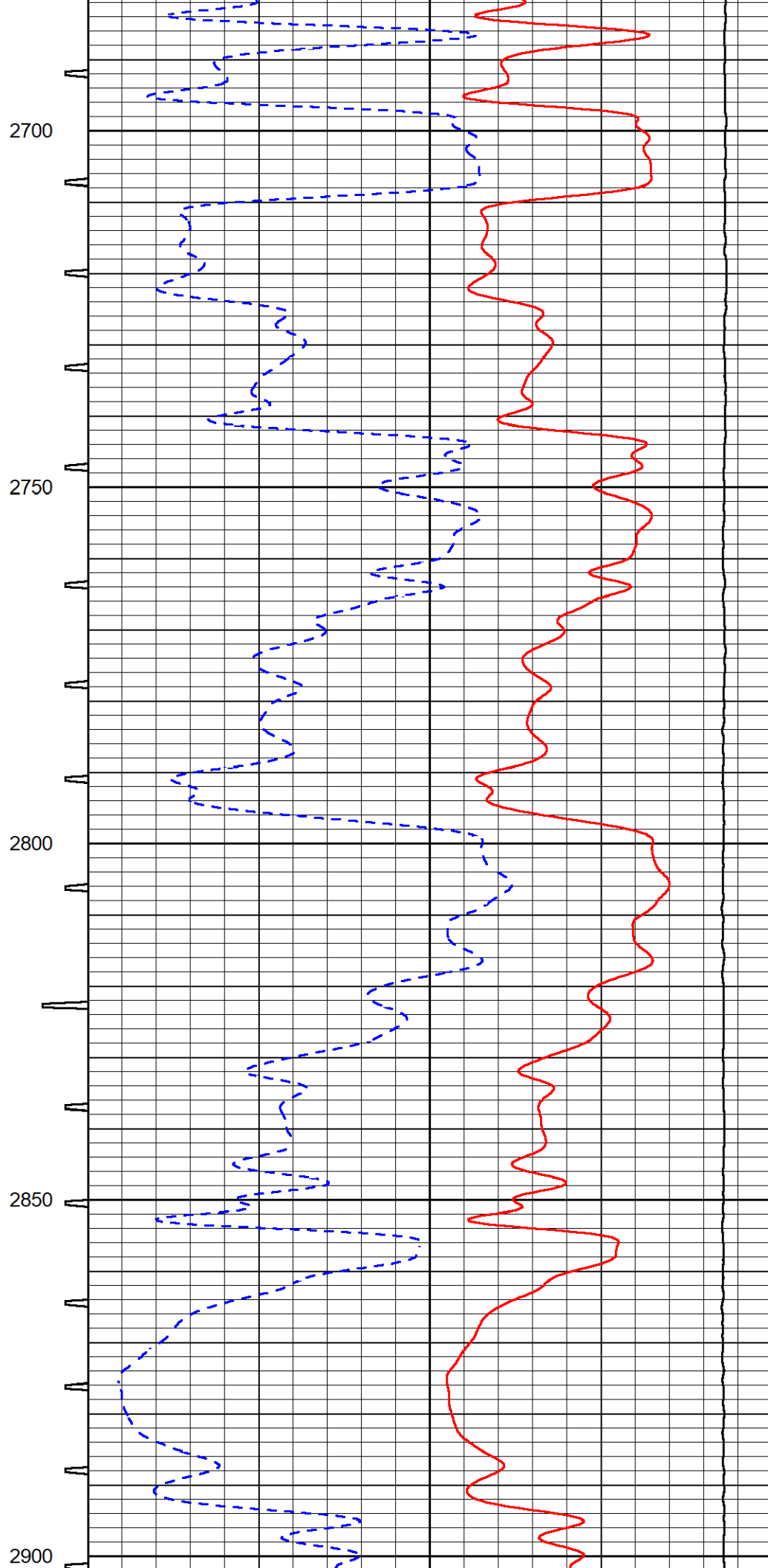
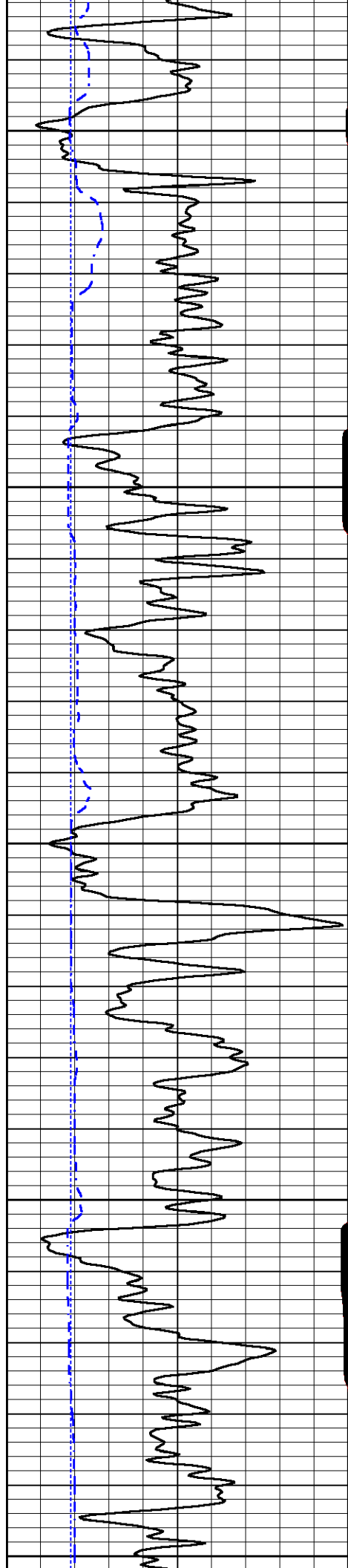


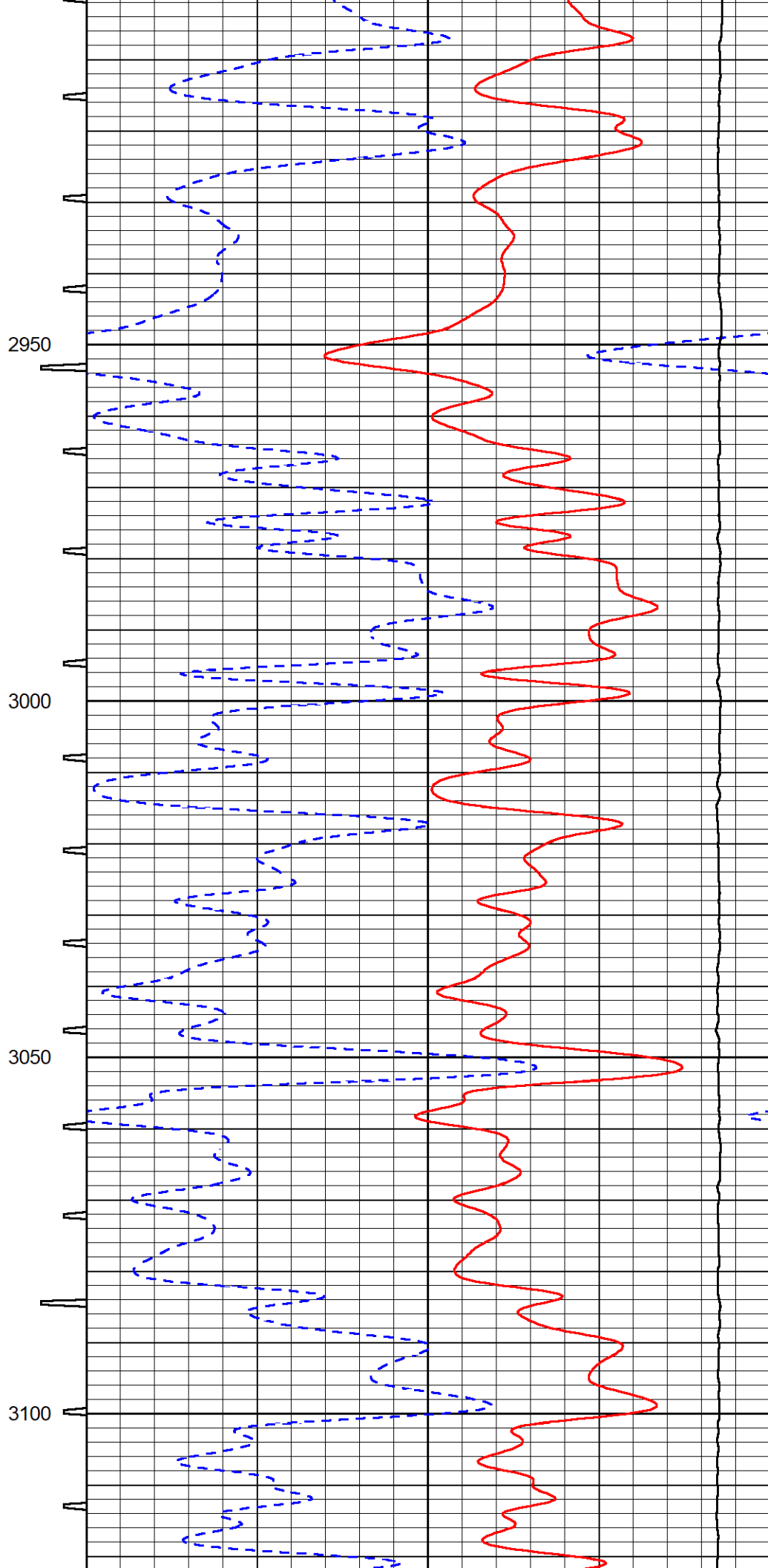
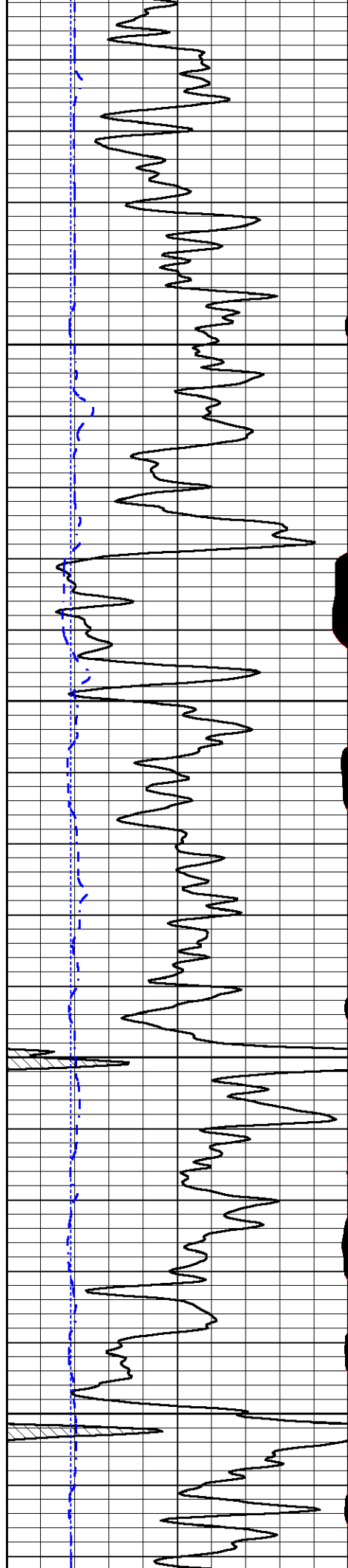


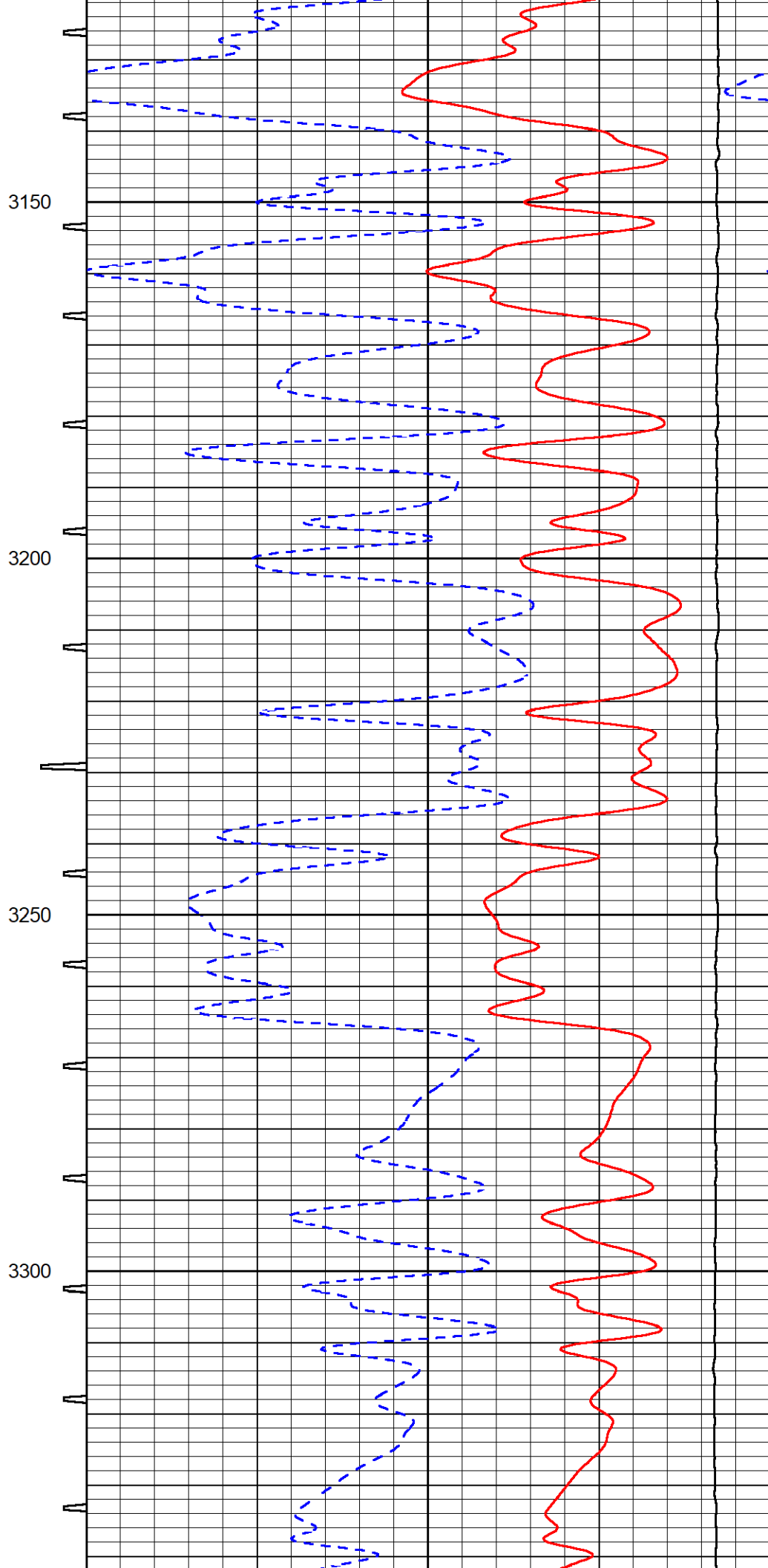
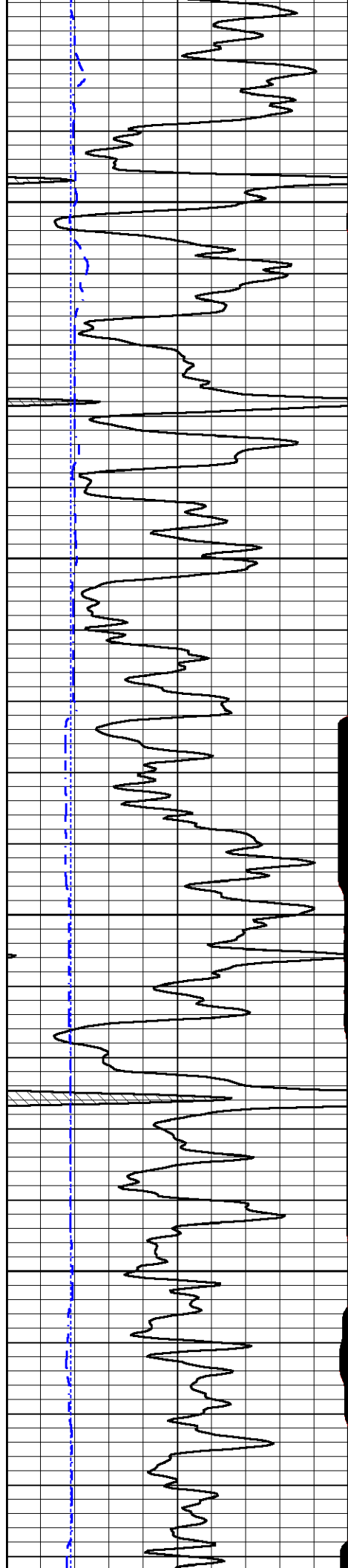


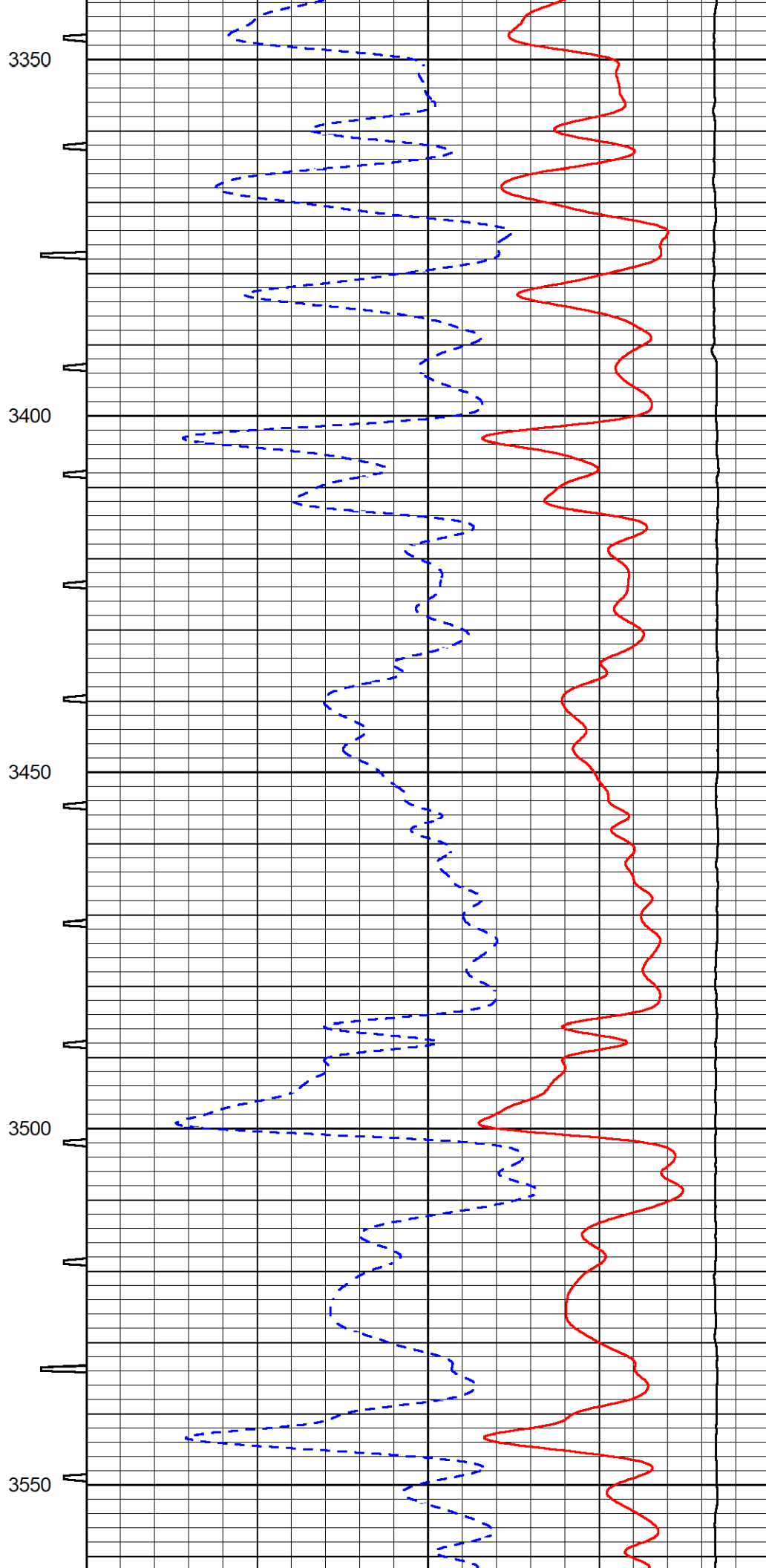
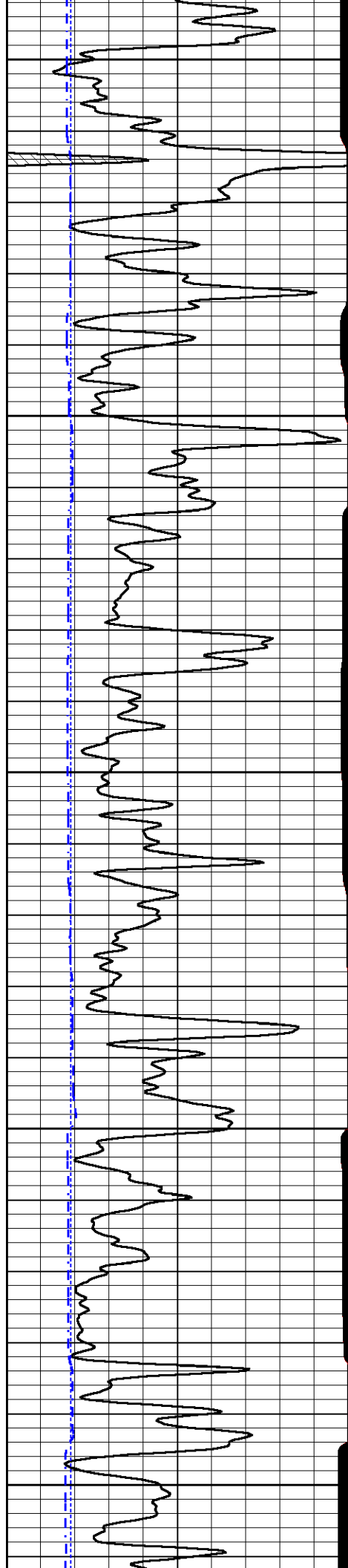


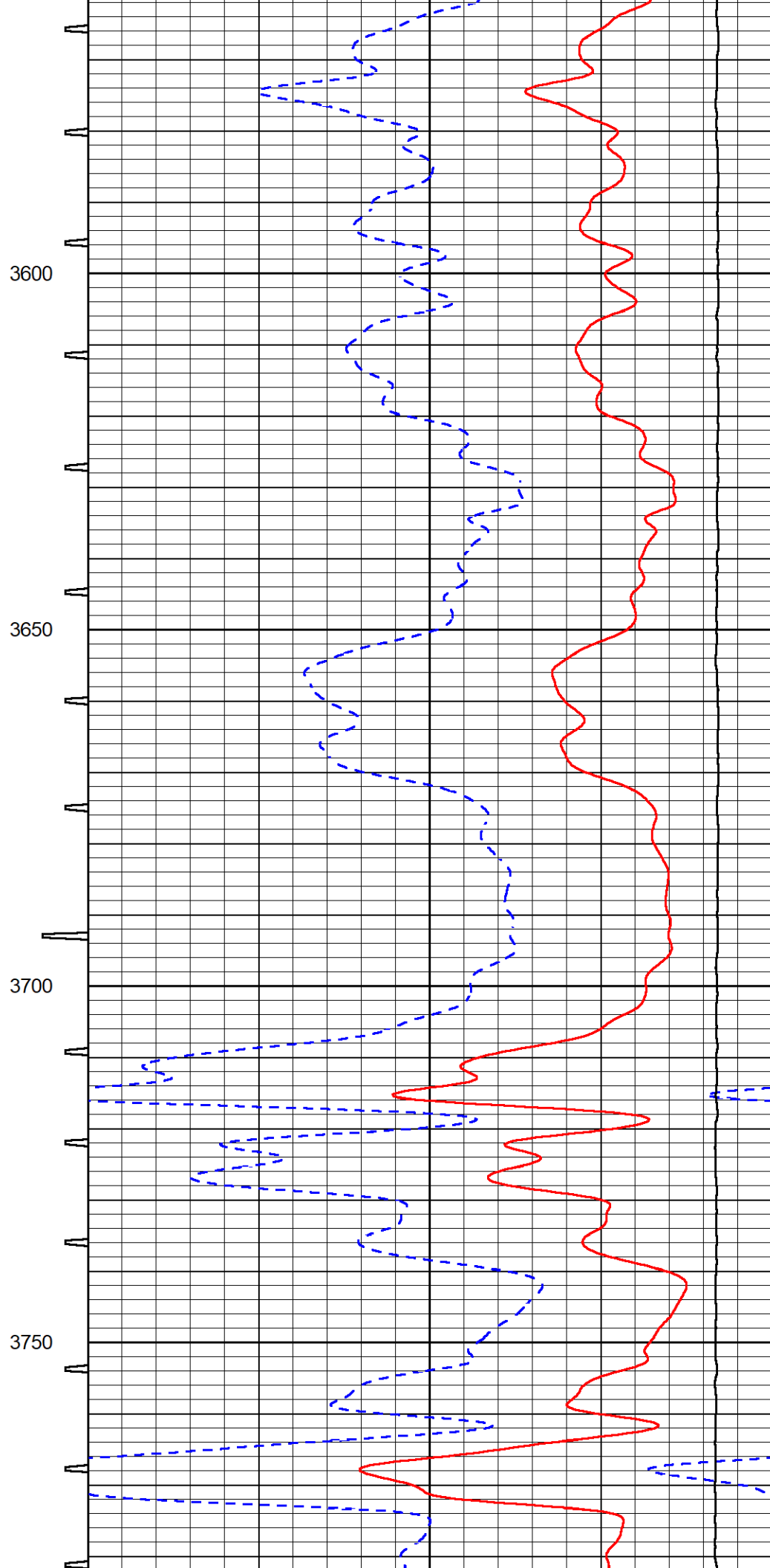
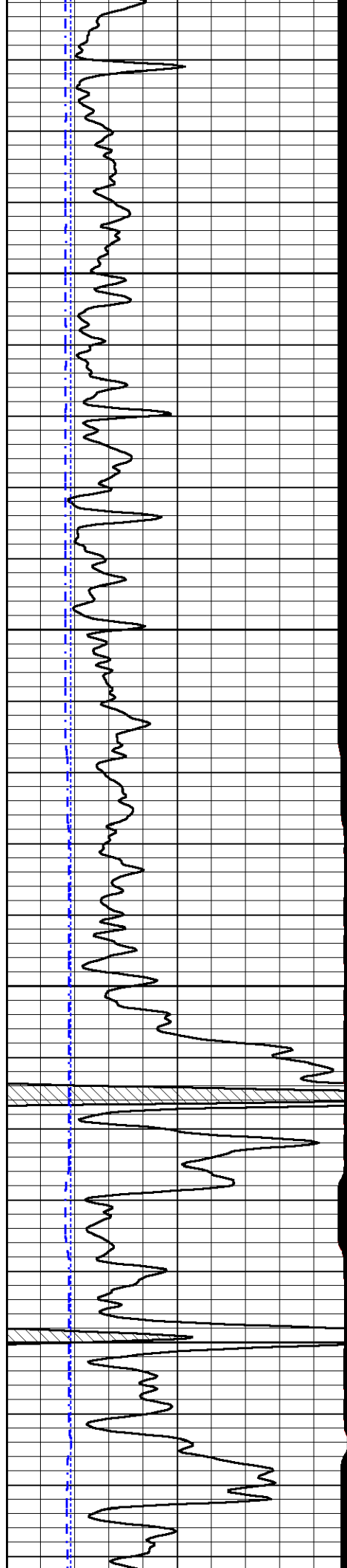


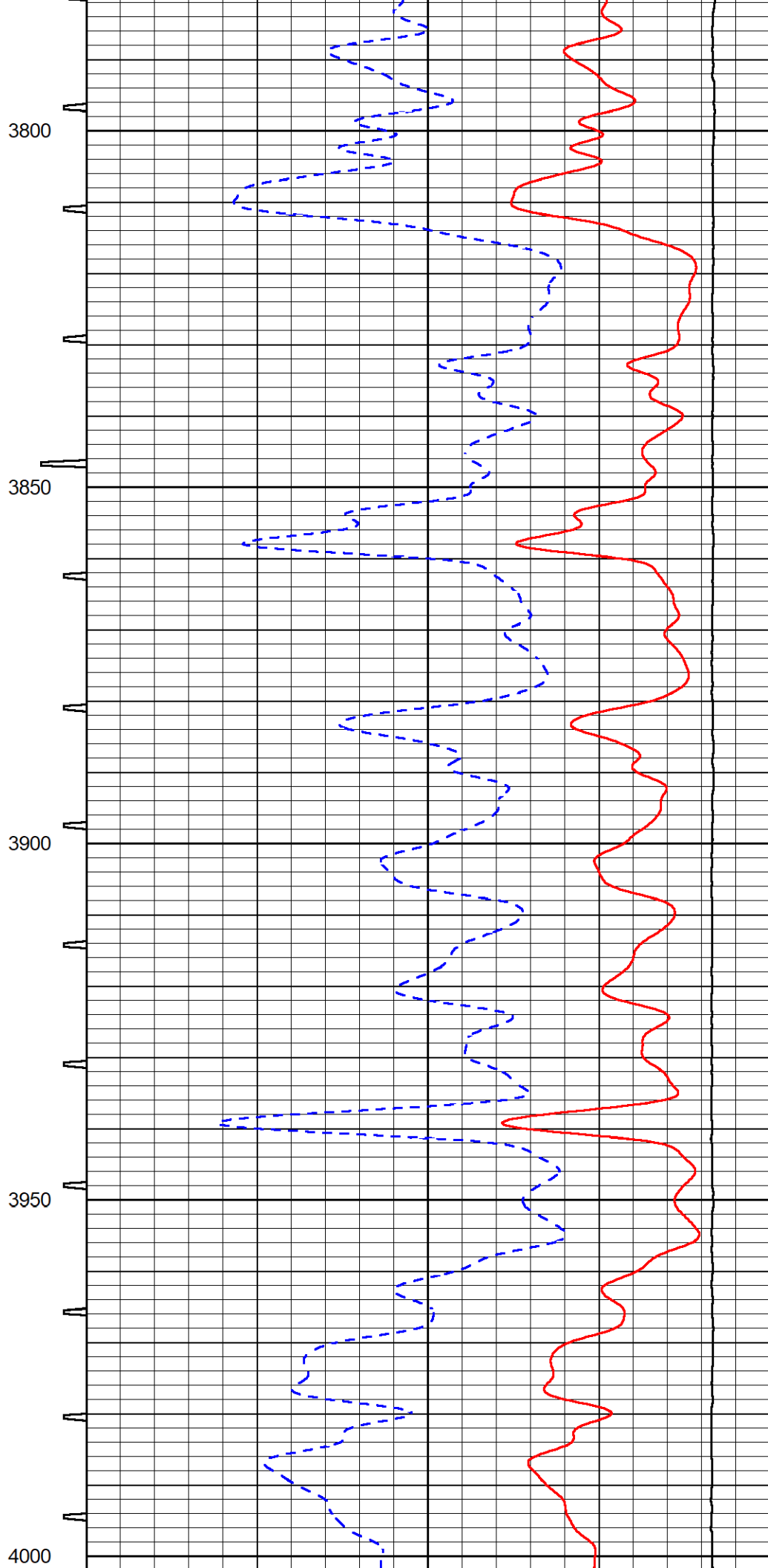
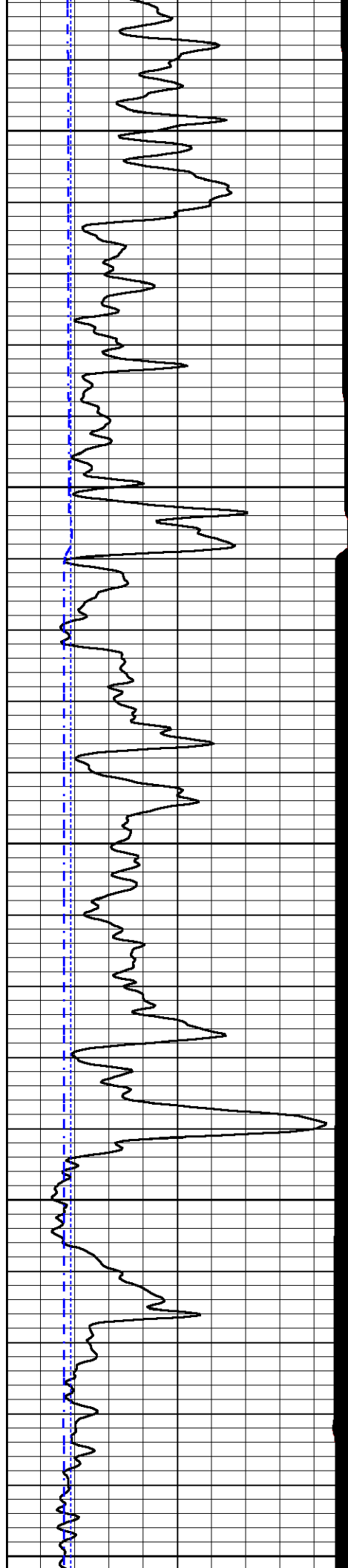


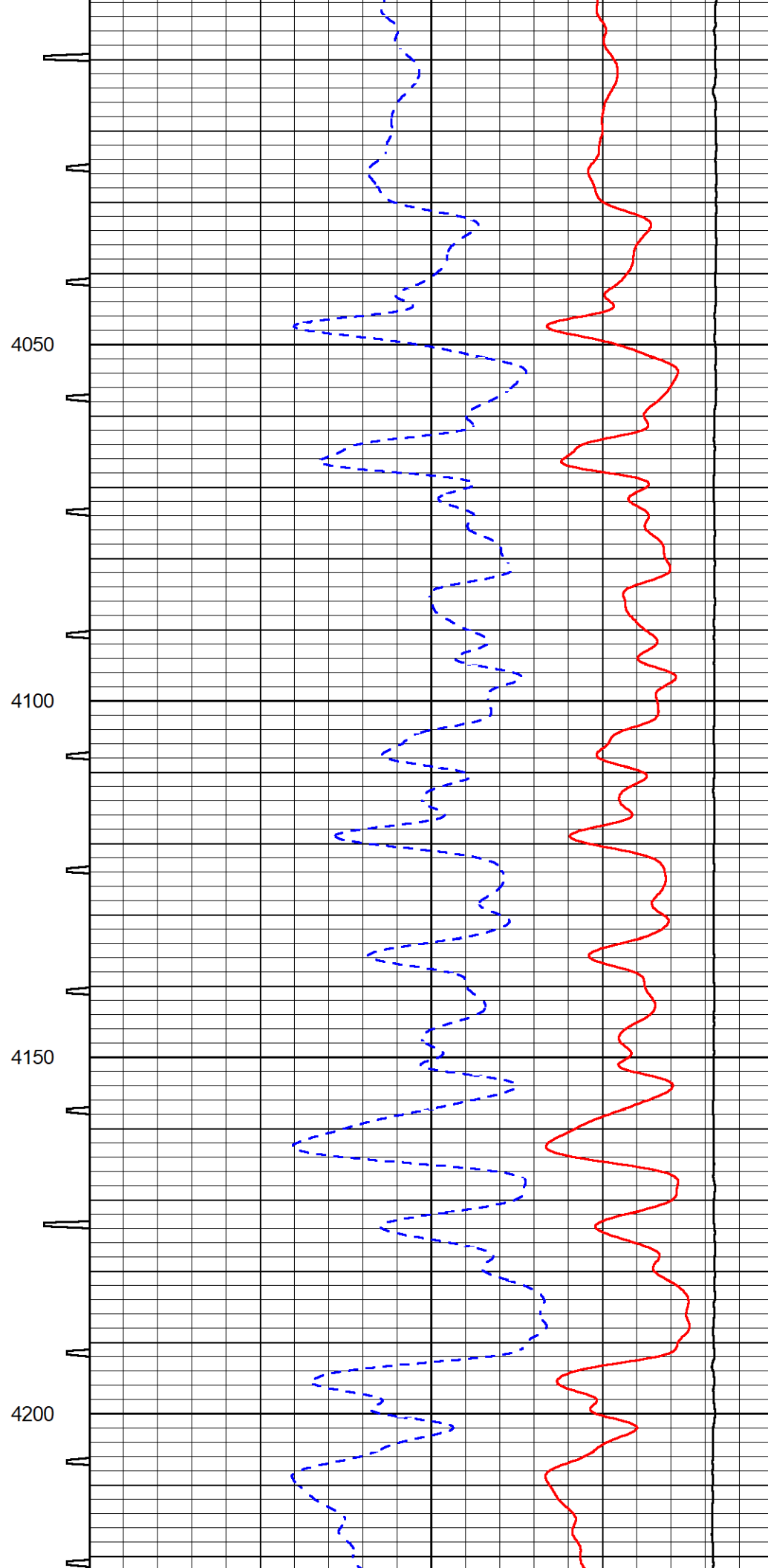
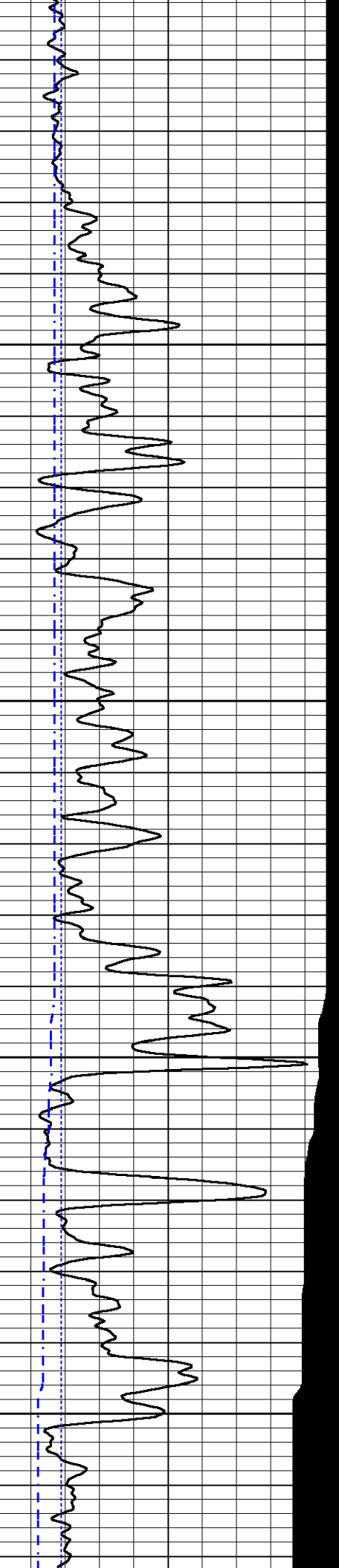


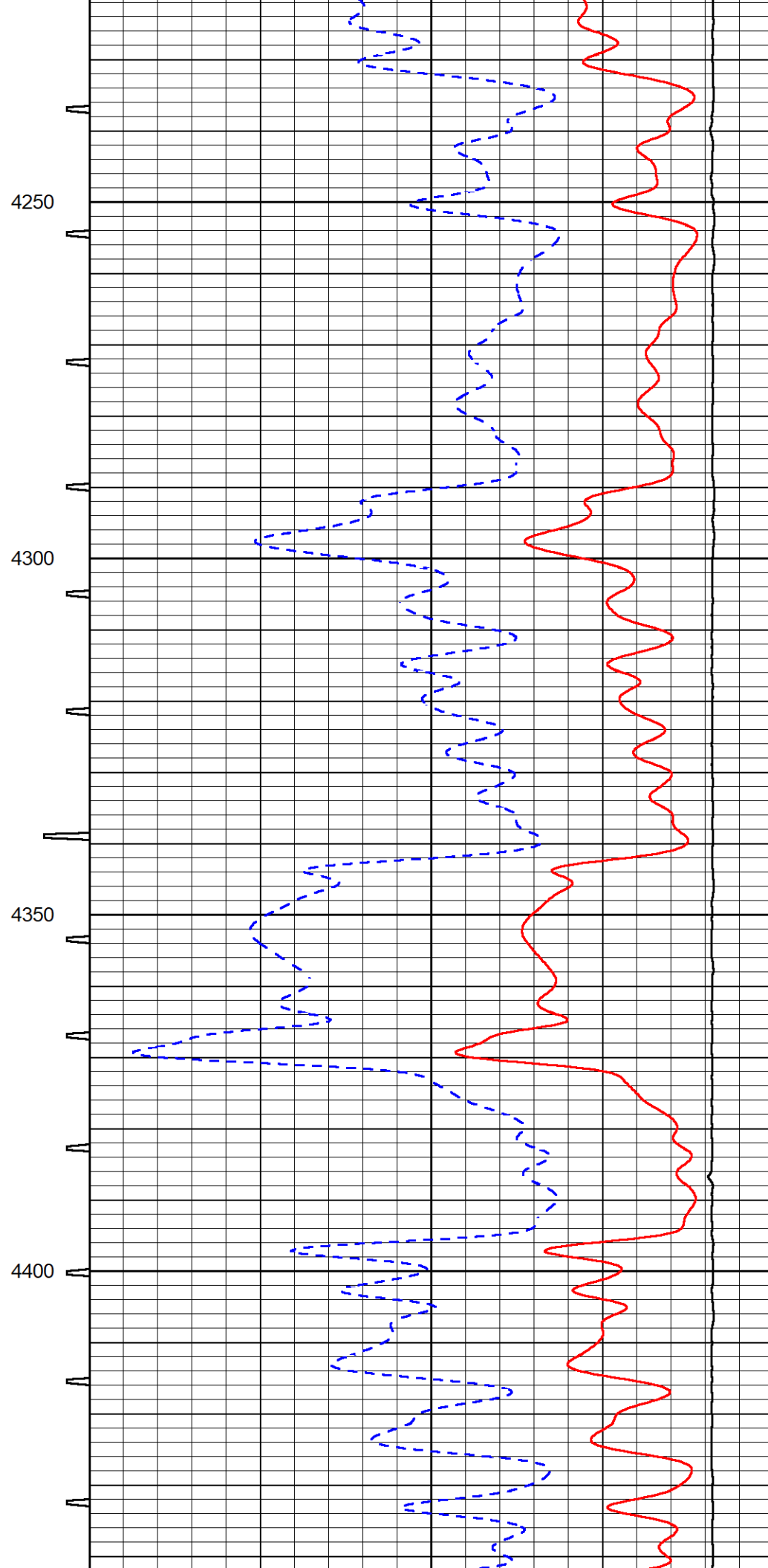
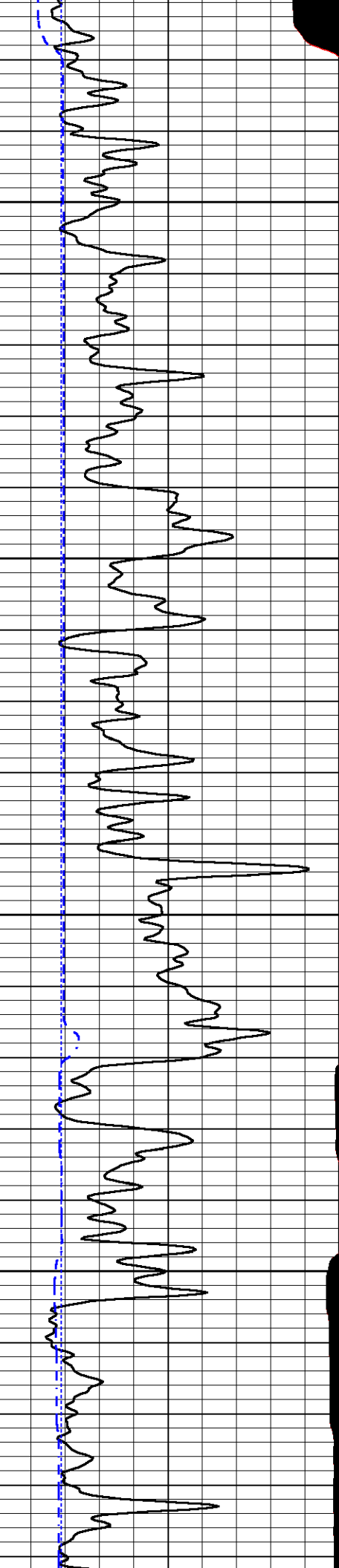


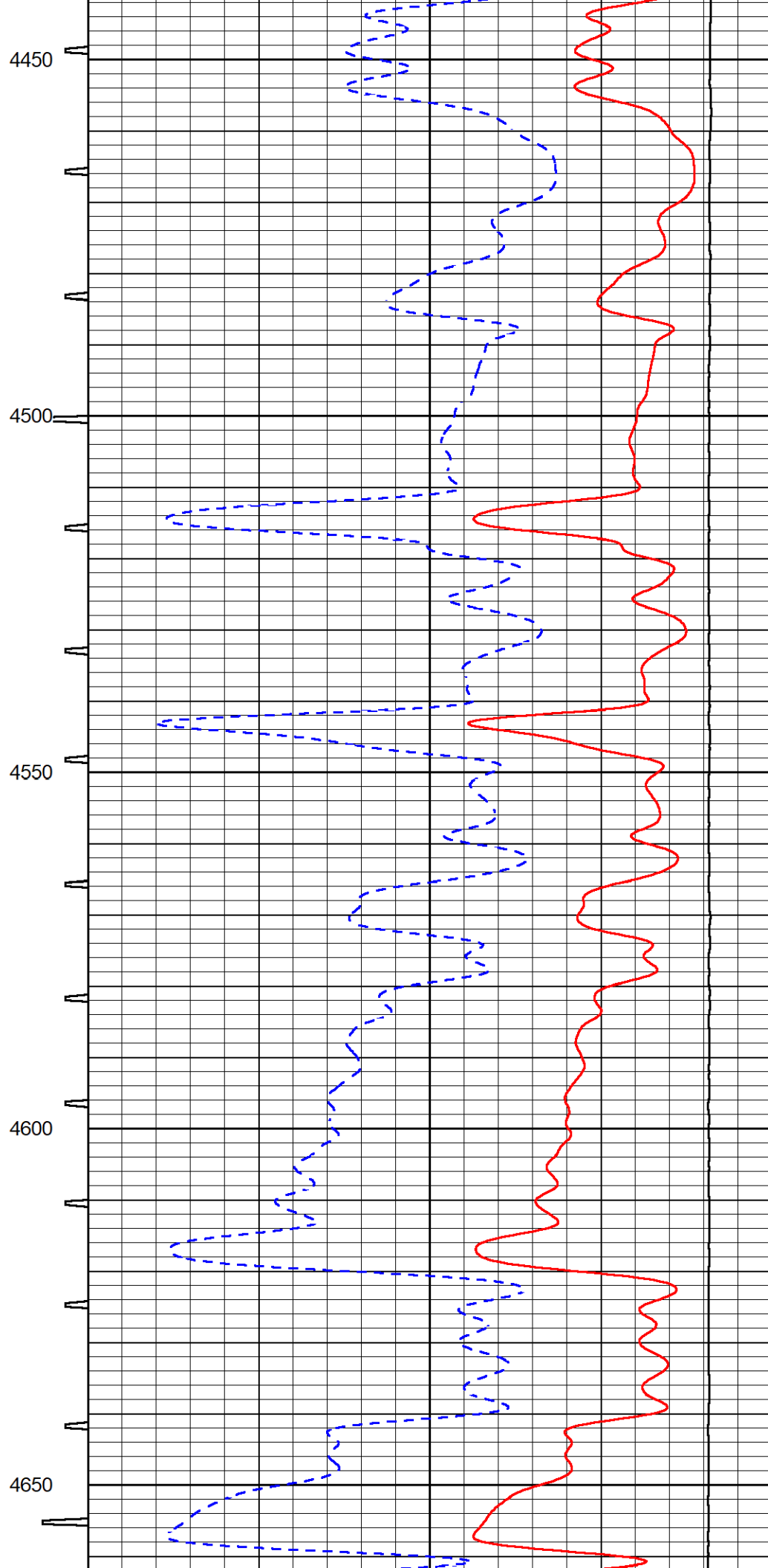
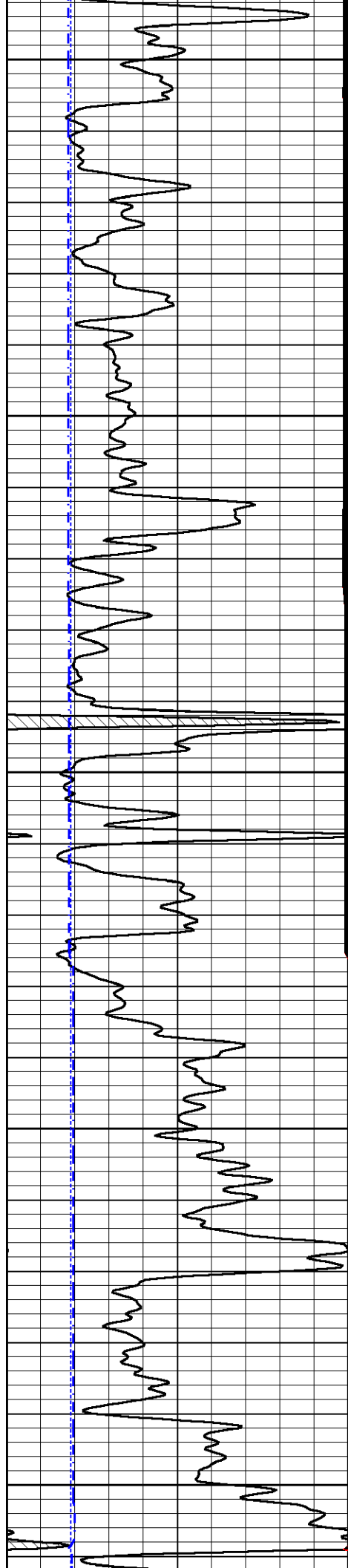


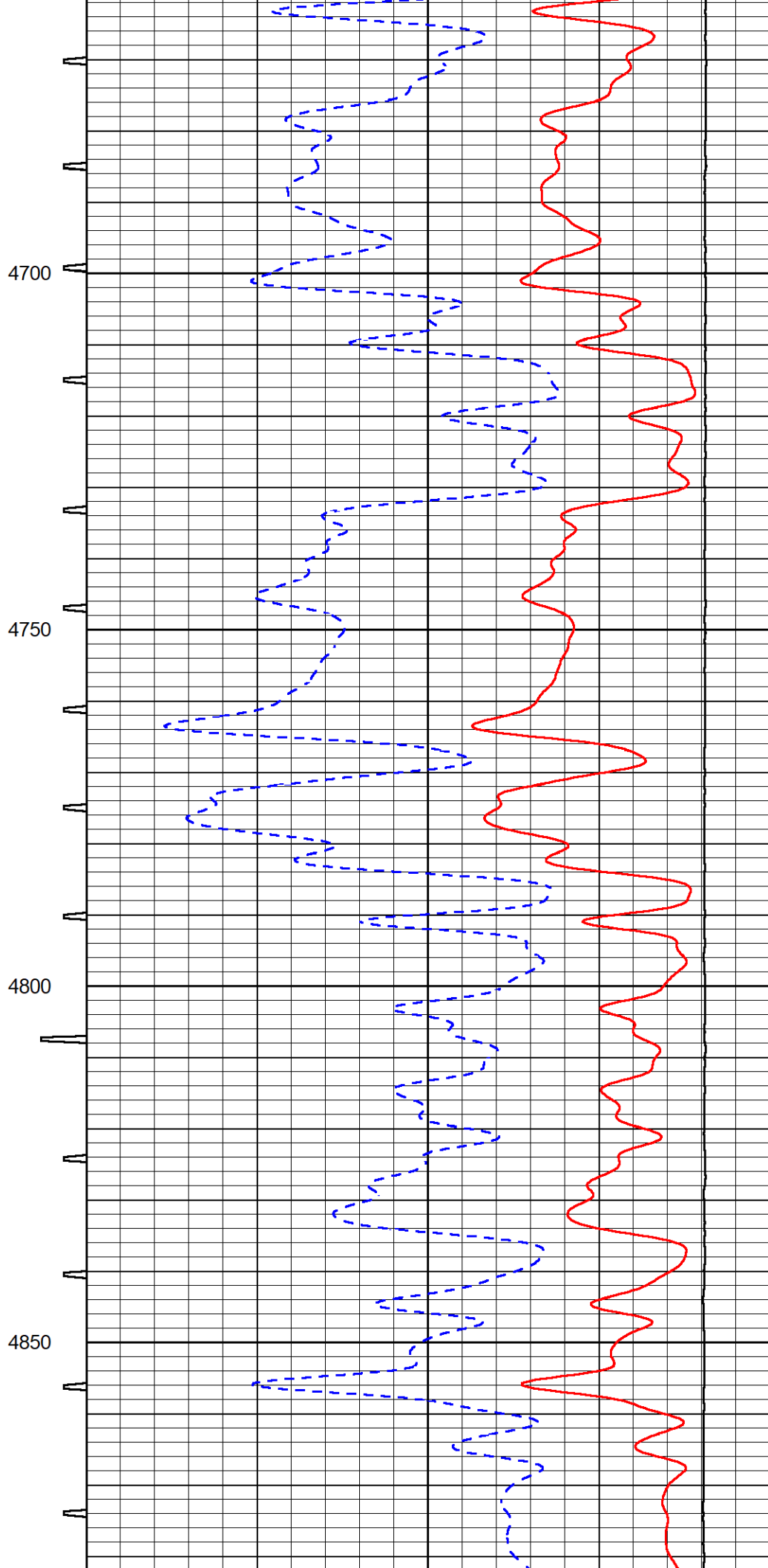
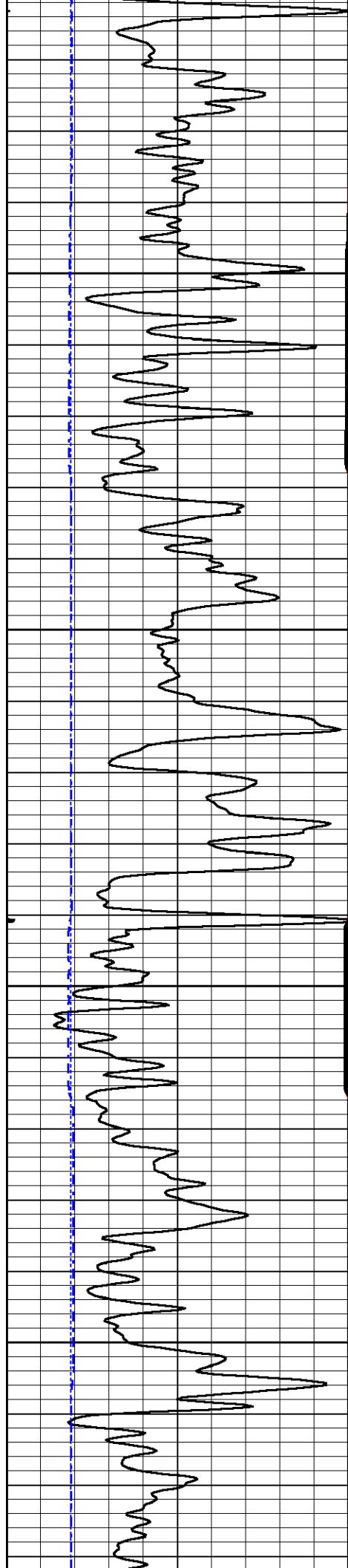


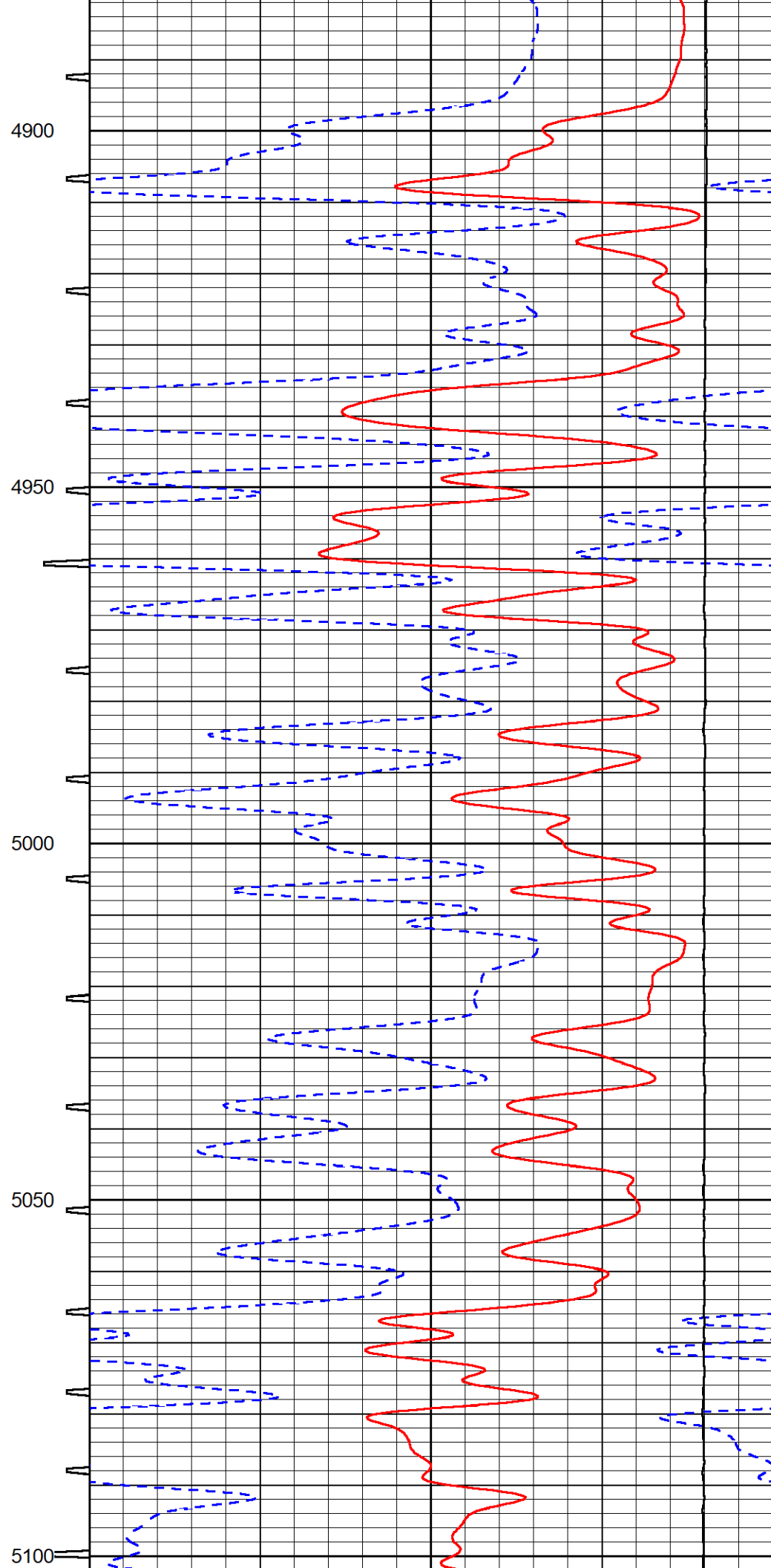
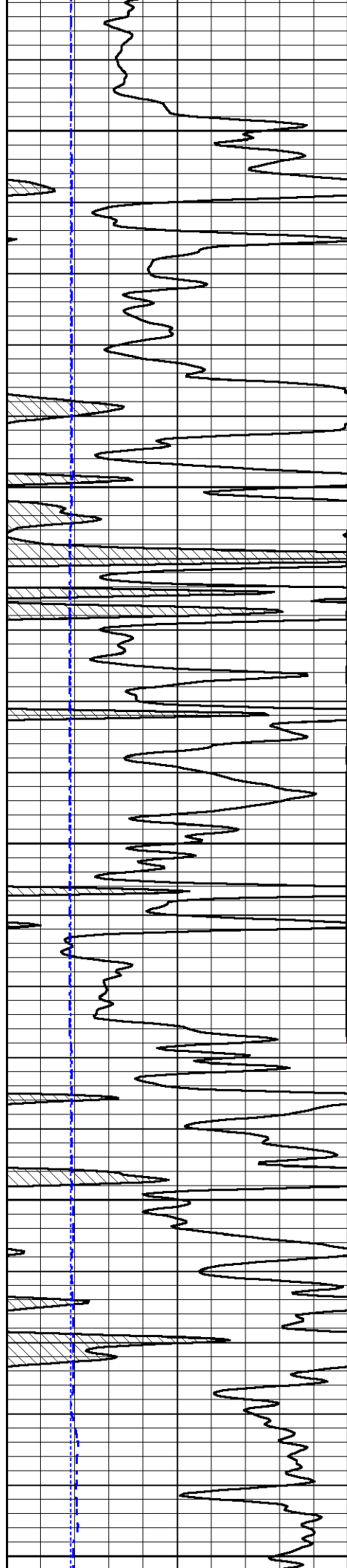


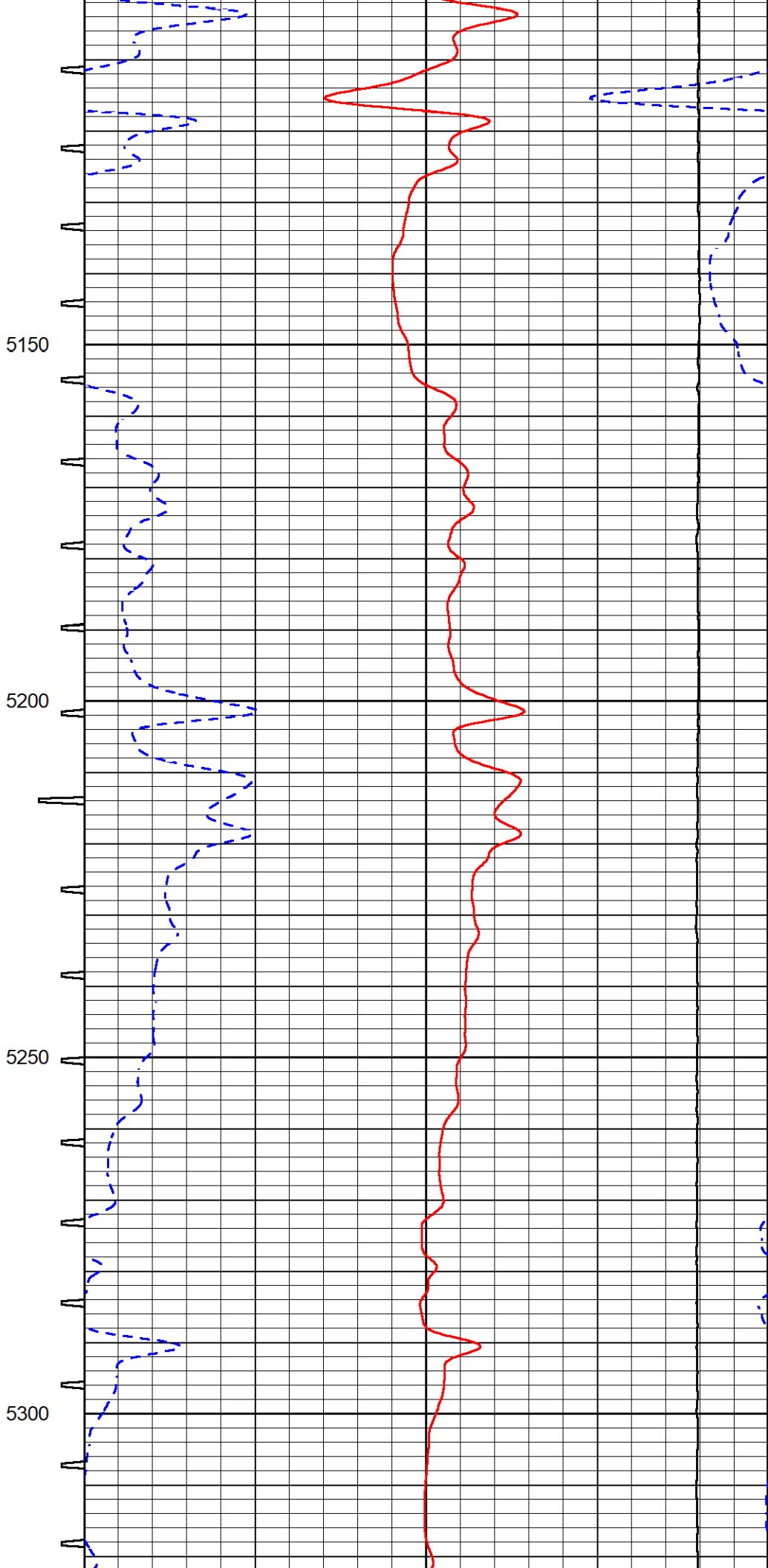
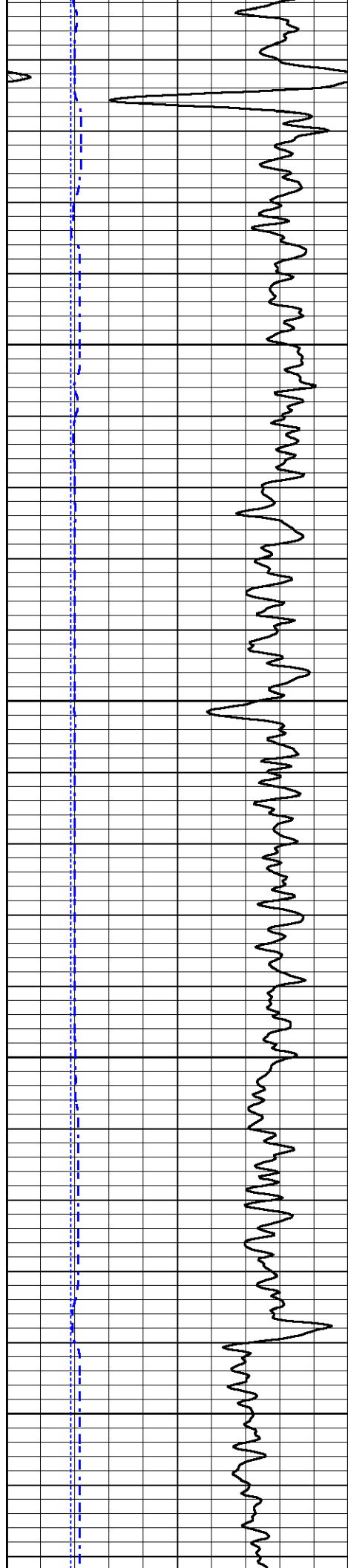


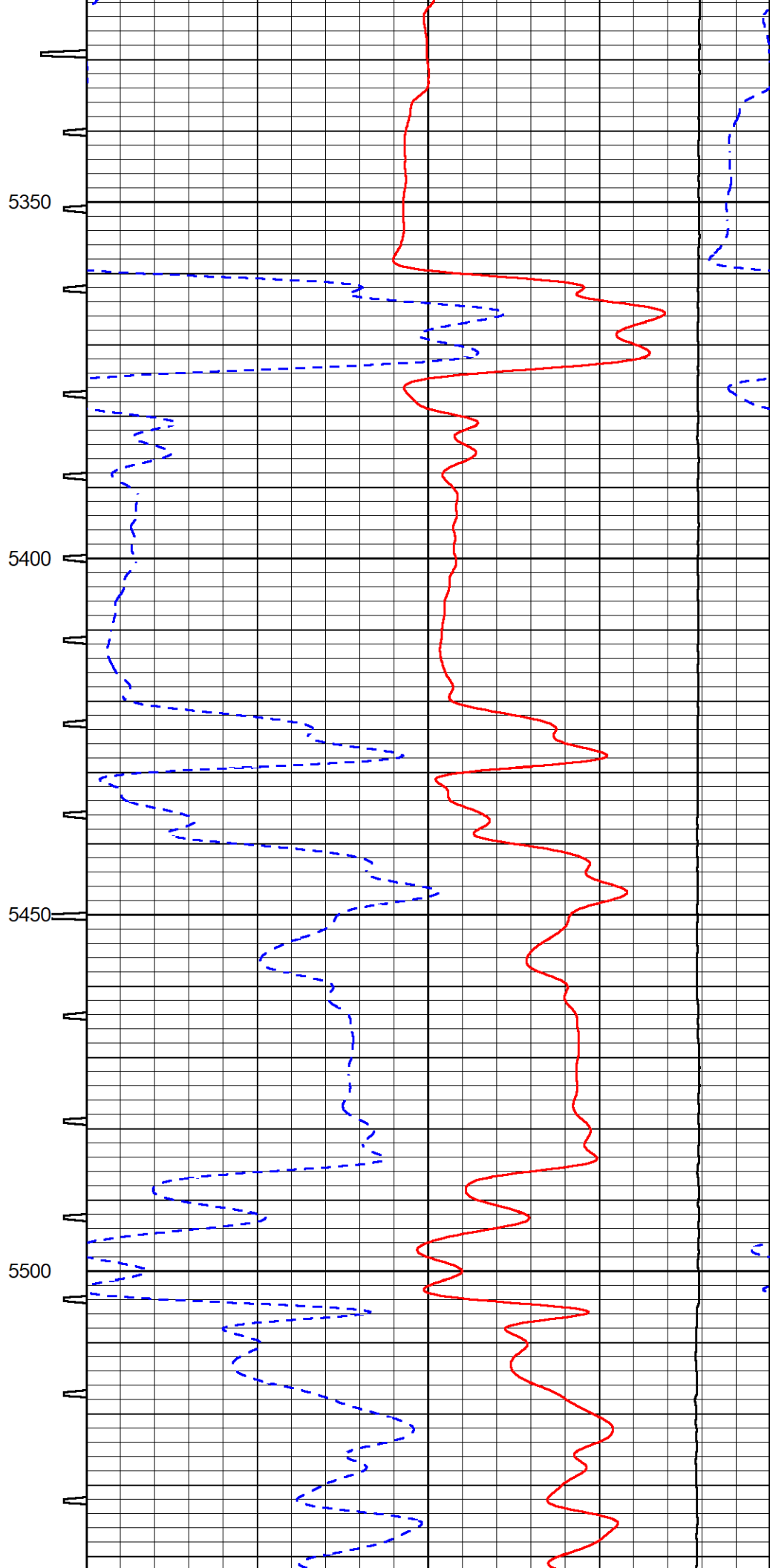
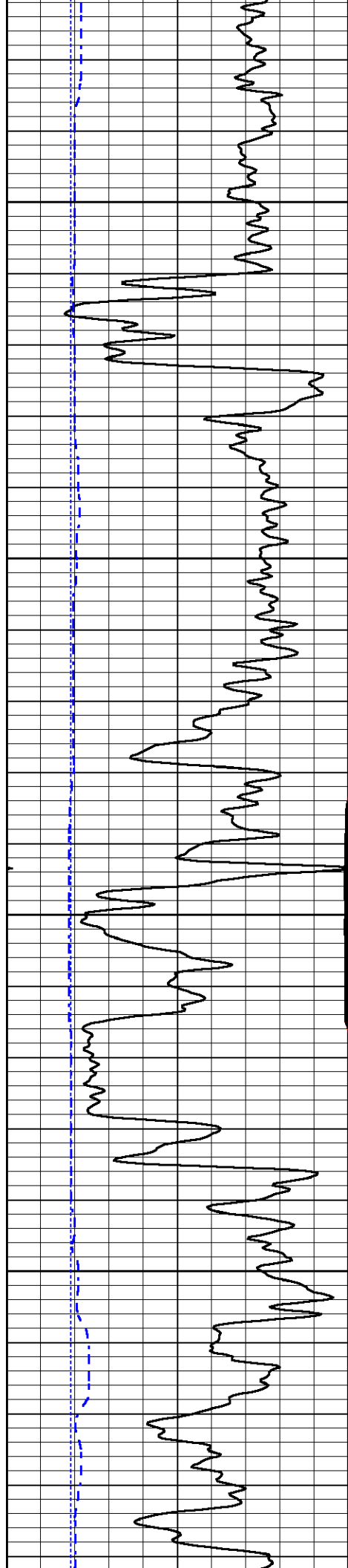


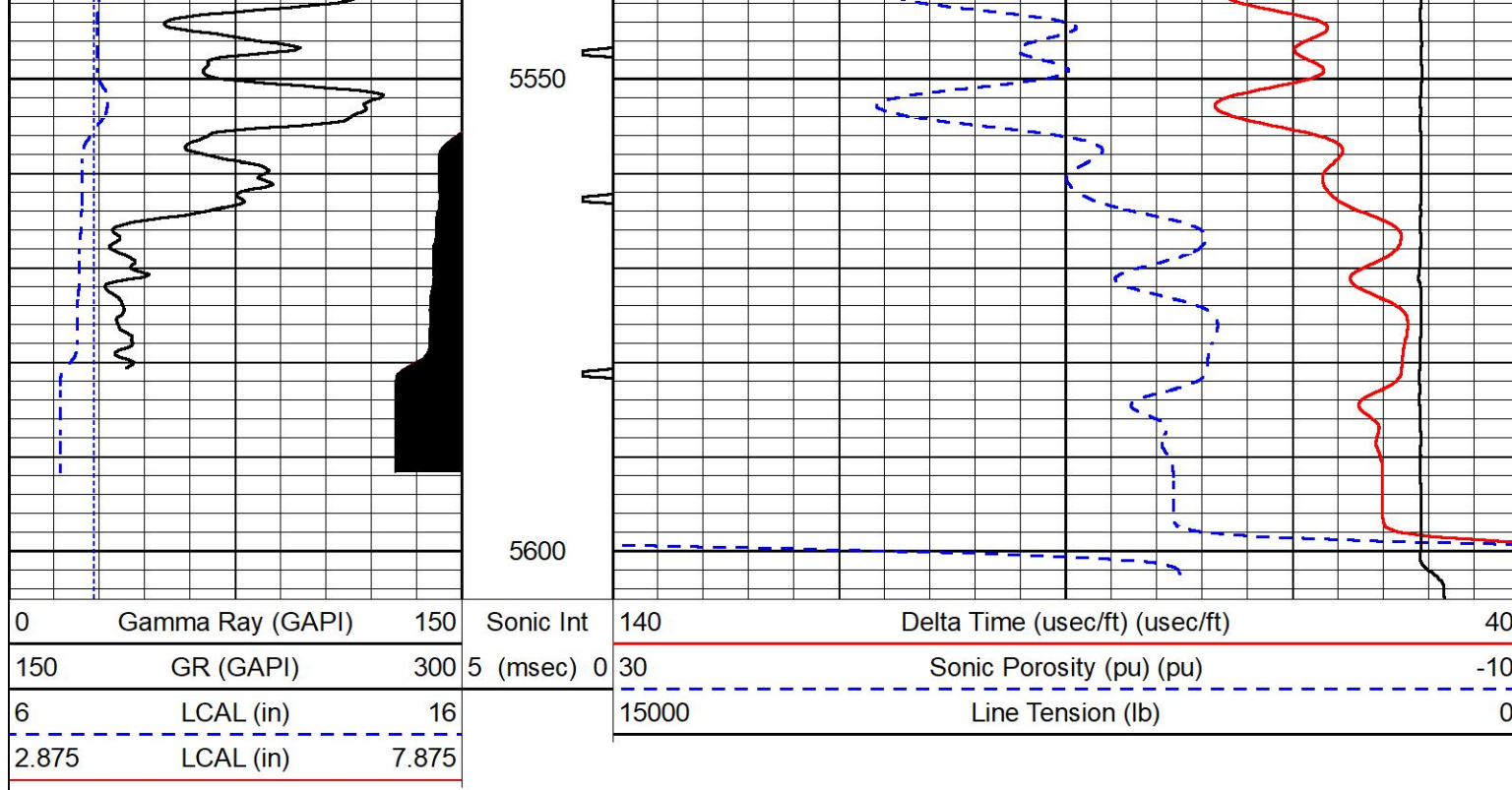










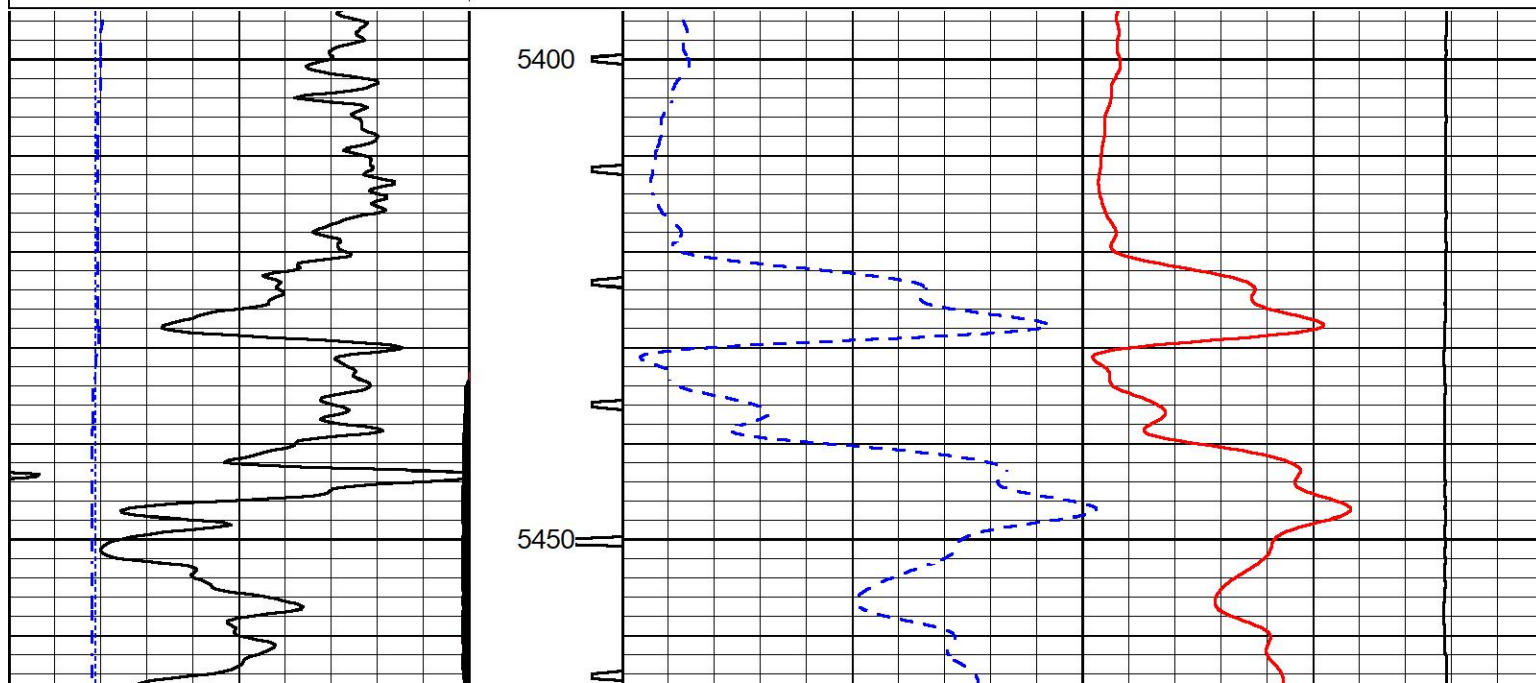
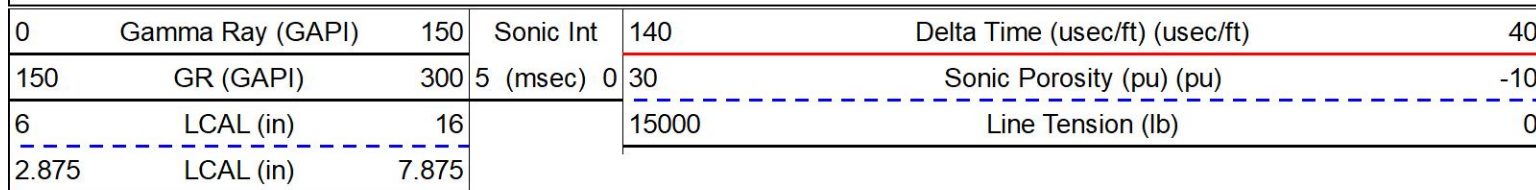


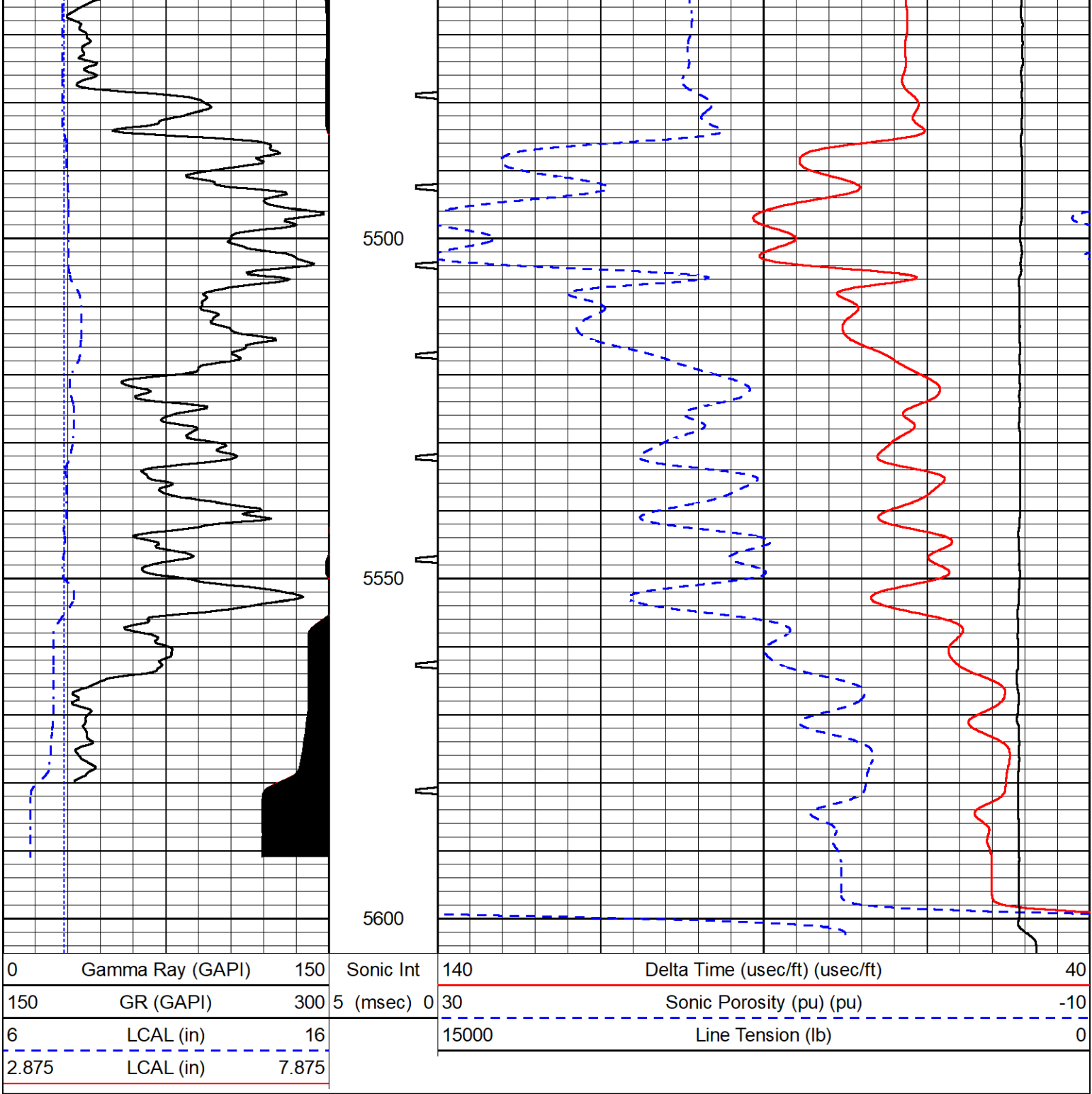
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File berexco_arnold unit 16-1.db
 Dataset Pathname stack/pass2.1
 Presentation Format _sonic
 Dataset Creation Wed Jul 08 01:14:30 2026
 Charted by Depth in Feet scaled 1:240





Database File		berexco_arnold unit 16-1.db		Calibration Report			
Dataset Pathname		stack/pass3.1					
Dataset Creation		Wed Jul 08 01:57:30 2026					
Dual Induction Calibration Report							
Serial-Model:		506-M&W					
Surface Cal Performed:		Wed Jun 24 17:13:14 2026					
Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.590	-39.000

LITHODENSITY Calibration Report

Serial Number:	701-03								
Tool Model:	STEP LITHO Short								
Performed:	Tue Sep 23 11:08:22 2025								
Source:									
	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	56	59	219	268	24	71	46	1	cps
LS:	78	88	333	431	50	131	87	4	cps
Aluminum:									
SS:	1019	1215	2861	2617	50	77	49	3	cps
LS:	1263	2145	3830	1712	72	136	59	4	cps
Magnesium:									
SS:	1699	1990	4685	3819	56	78	46	4	cps
LS:	4984	8437	15068	6103	123	112	86	24	cps
Aluminum+Iron:									
SS:	655	863	2400	2274	45	78	49	3	cps
LS:	711	1512	3267	1588	59	132	86	6	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated	Quality		
Background:									
SS:							0.213		
LS:							0.202		
Aluminum:									
SS:		2.6000	2.6000	g/cc			0.219		
LS:		2.6000	2.6000	g/cc			0.395		
Magnesium:									
SS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.255		
LS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.131		
Aluminum+Iron:									
SS:						6.1800	0.229		
LS:						6.1800	0.212		

Caliper:	Reference:	Reading:
Small Ring:	6.0 in	0.2
Large Ring:	17.5 in	0.8
Gain:	18.284	
Offset:	0.150	

Compensated Neutron Calibration Report

Serial Number:	210
Tool Model:	M&W

CALIBRATION						
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:	105
Tool Model:	M&W
Performed:	Tue Aug 26 12:59:12 2025

Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps

	Company	Berexco LLC
	Well	Arnold Unit #16-1
	Field	Arroyo Northeast
	County	Stanton
	State	Kansas