

DUAL INDUCTION LOG

Company	MULL DRILLING COMPANY, INC.	Location:	API # : 15-111-20565-0000	Other Services CDL/CNL/PE MEL/SONIC
Well	PETERSON TRUST #6-31	Permanent Datum	335' FSL & 435' FWL NE - SW - SW - SW	Elevation
Field	RAINBOW RIDGE NORTHWEST	Log Measured From	SEC 31 TWP 16S RGE 10E	K.B. 1306 D.F. 1304 G.L. 1294
County	LYON	Drilling Measured From	GROUND LEVEL	
State	KANSAS		Elevation	
Date	8/1/23			
Run Number	ONE			
Depth Driller	3200			
Depth Logger	3200			
Bottom Logged Interval	3198			
Top Log Interval	00			
Casing Driller	13 3/8" @ 202'			
Casing Logger	216			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,200 PPM		
Density / Viscosity	9.3/45			
pH / Fluid Loss	9.5/8.8			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	1.60 @ 100F			
Rmf @ Meas. Temp	1.20 @ 100F			
Rmc @ Meas. Temp	1.92 @ 100F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	1.47 @ 109F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	12:30 P.M.			
Maximum Recorded Temperature	109F			
Equipment Number	922339			
Location	HAYS, KANSAS			
Recorded By	JEFF LUEBBERS			
Witnessed By	ROGER MARTIN			

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

15-111-20565-0000

Comments

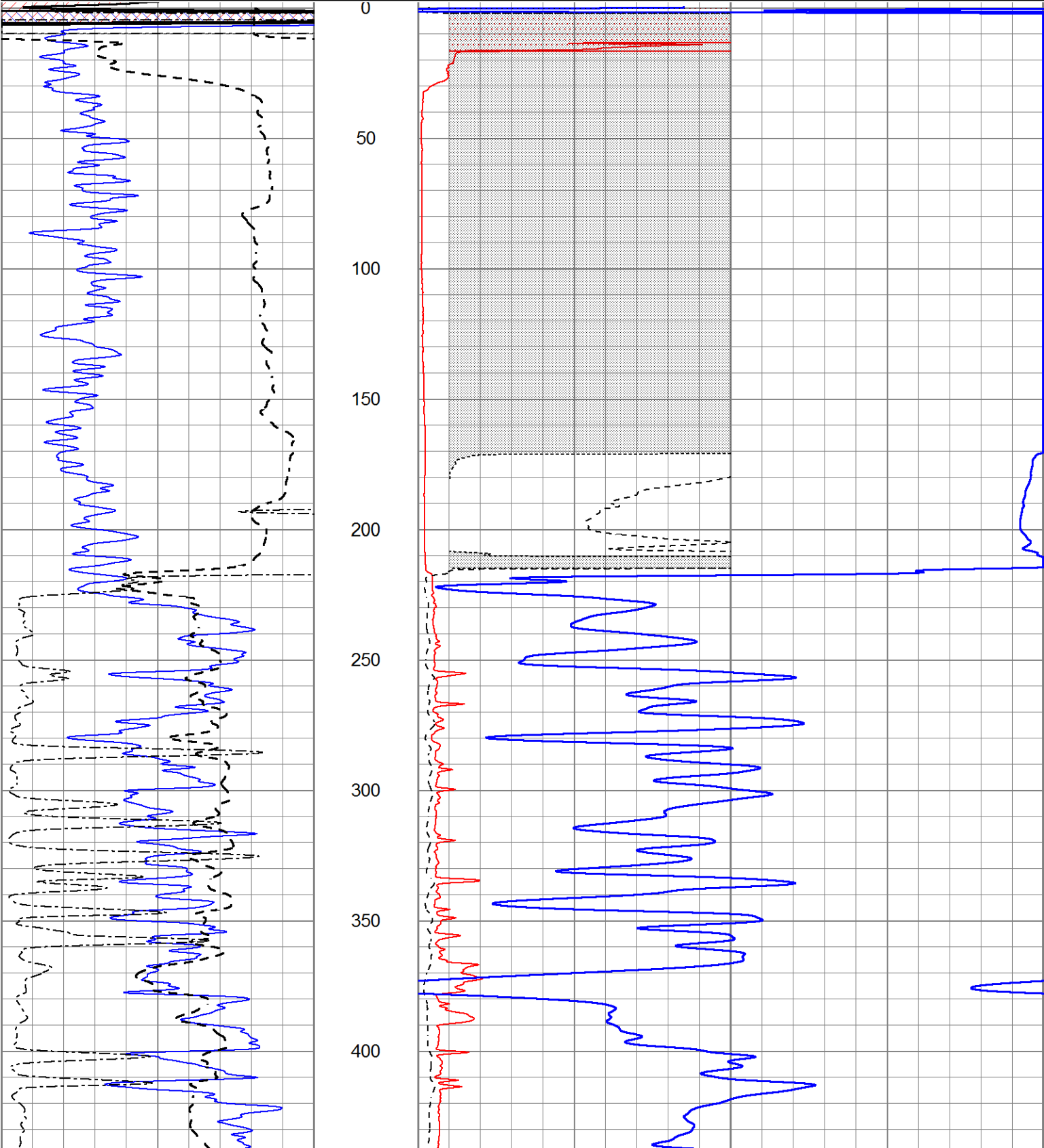
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS

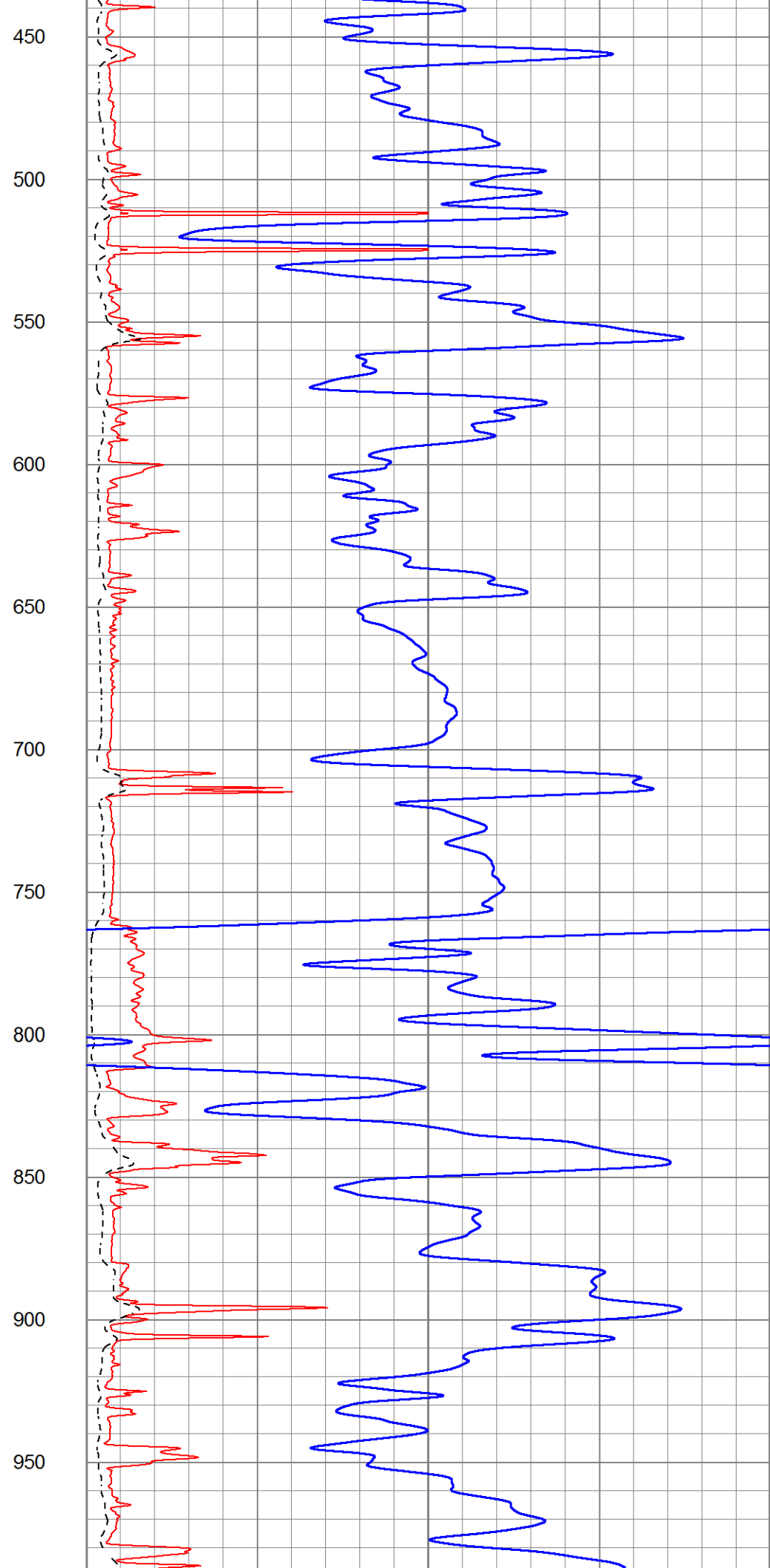
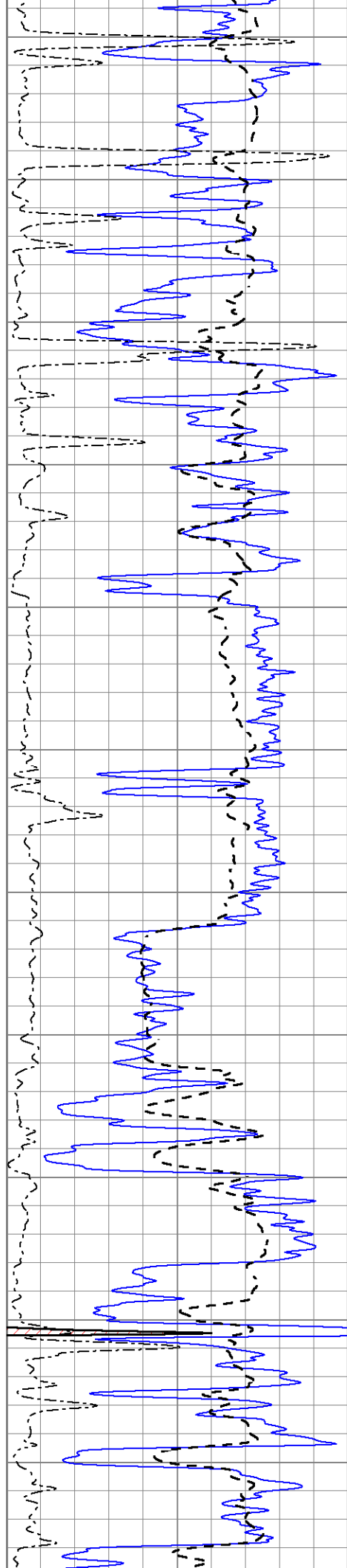
BUSHONG, KS., (RD. F & 3RD. ST.) 2.4 S. TO "RD. 310", 4 1/2W., N. INTO, THEN BACK WEST IN PAS

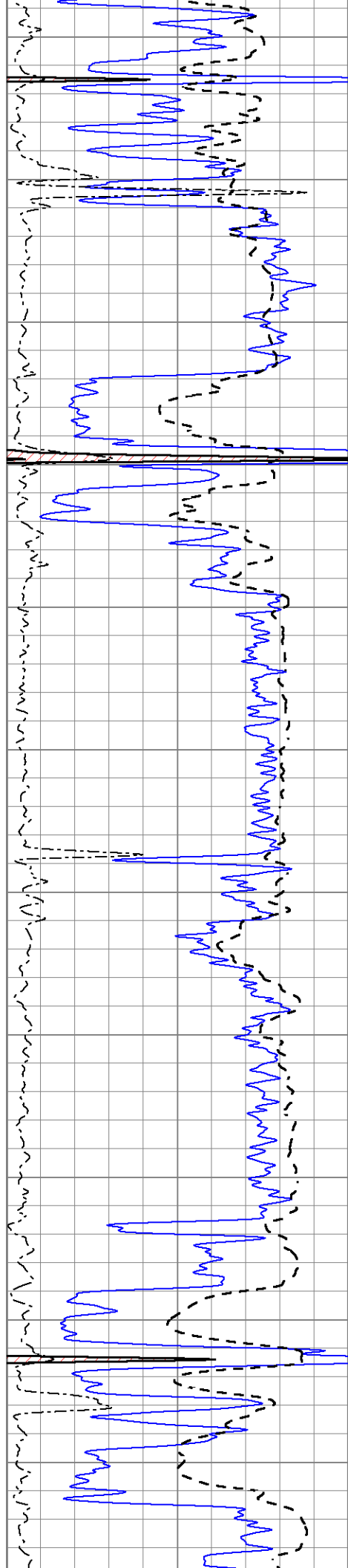


MAIN SECTION

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500







1000

1050

1100

1150

1200

1250

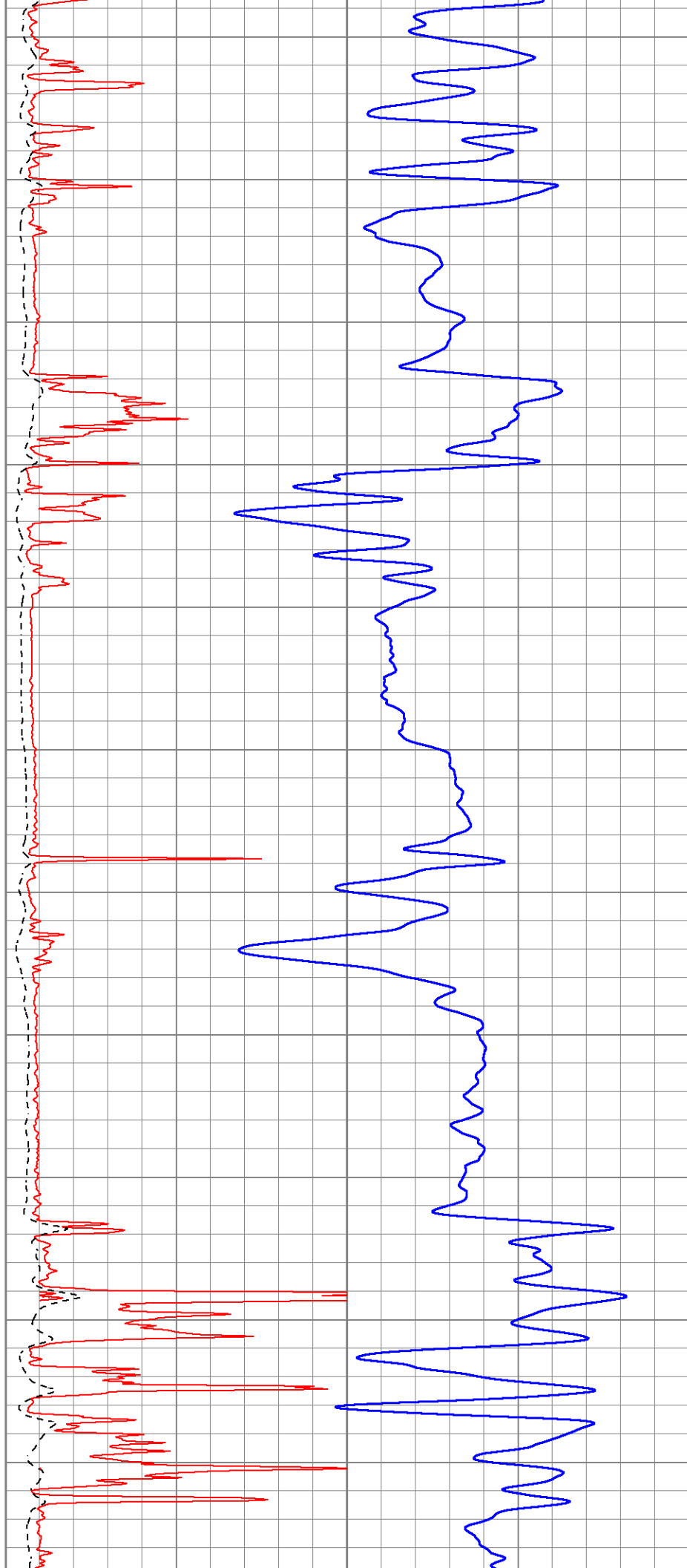
1300

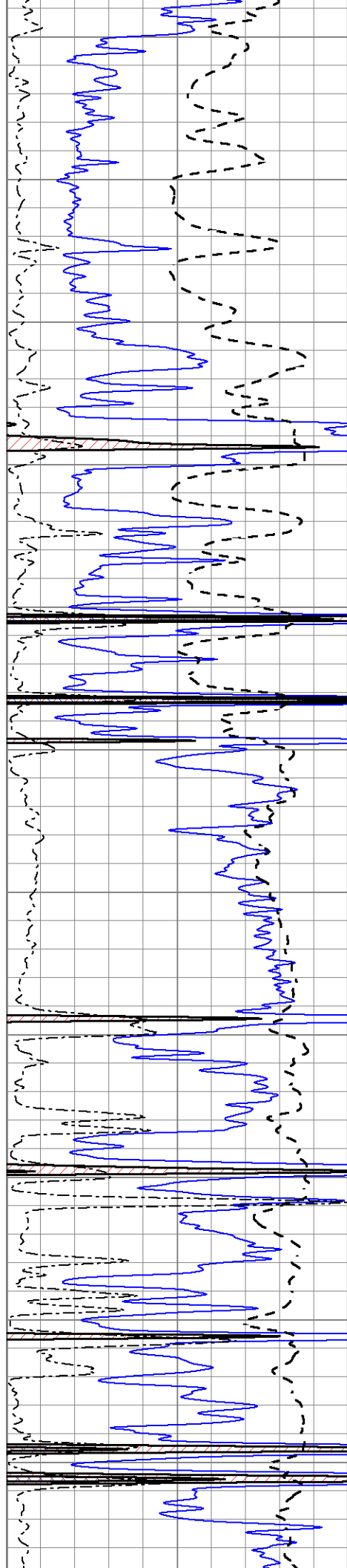
1350

1400

1450

1500





1550

1600

1650

1700

1750

1800

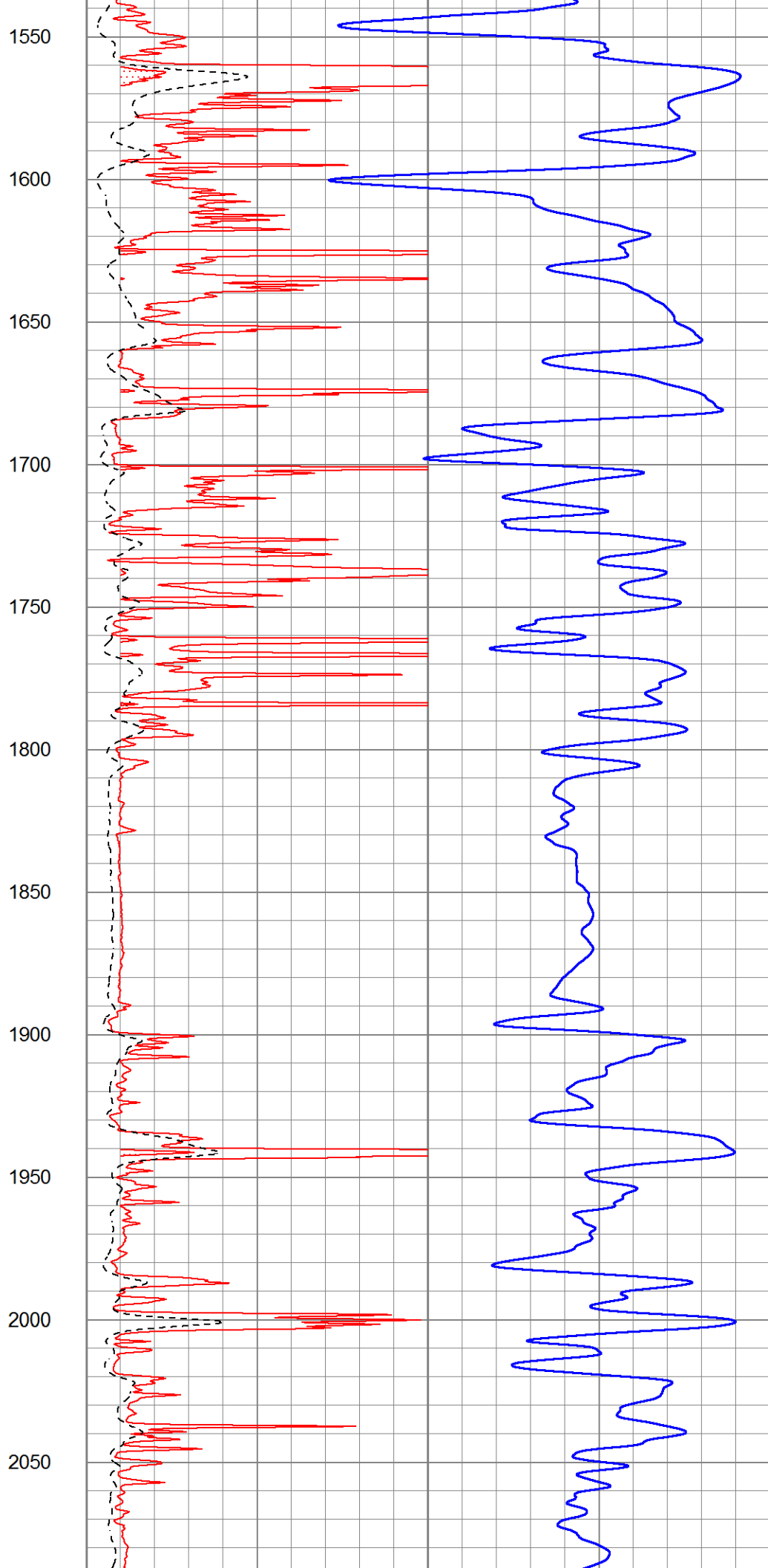
1850

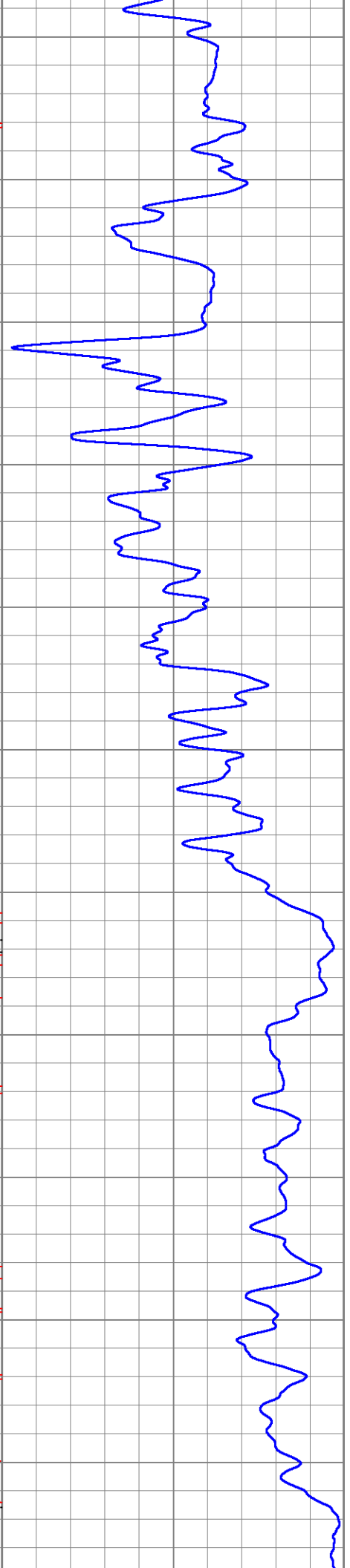
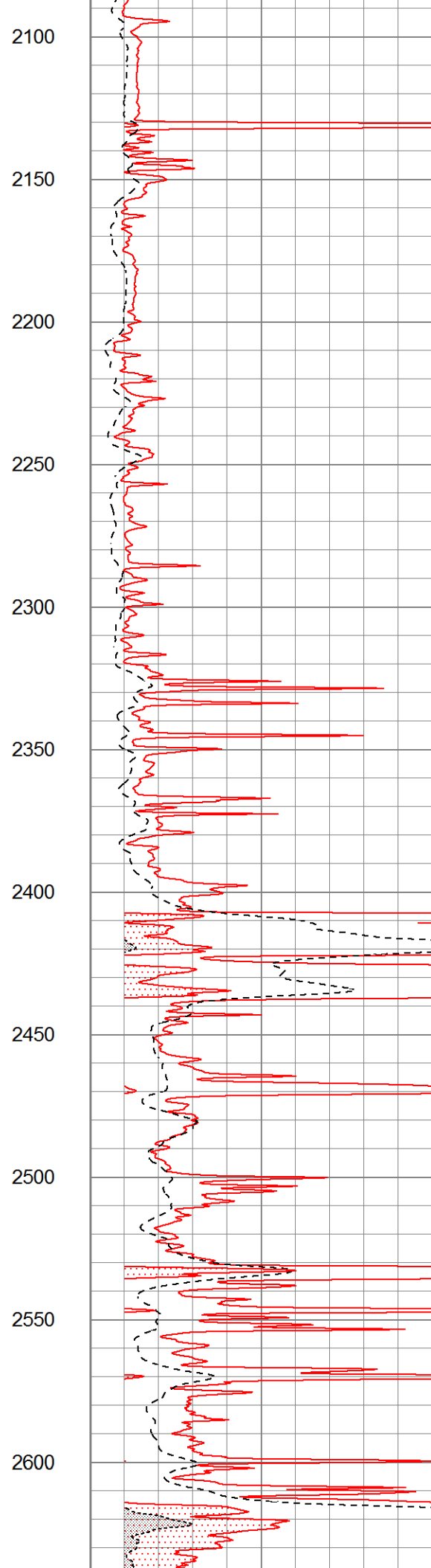
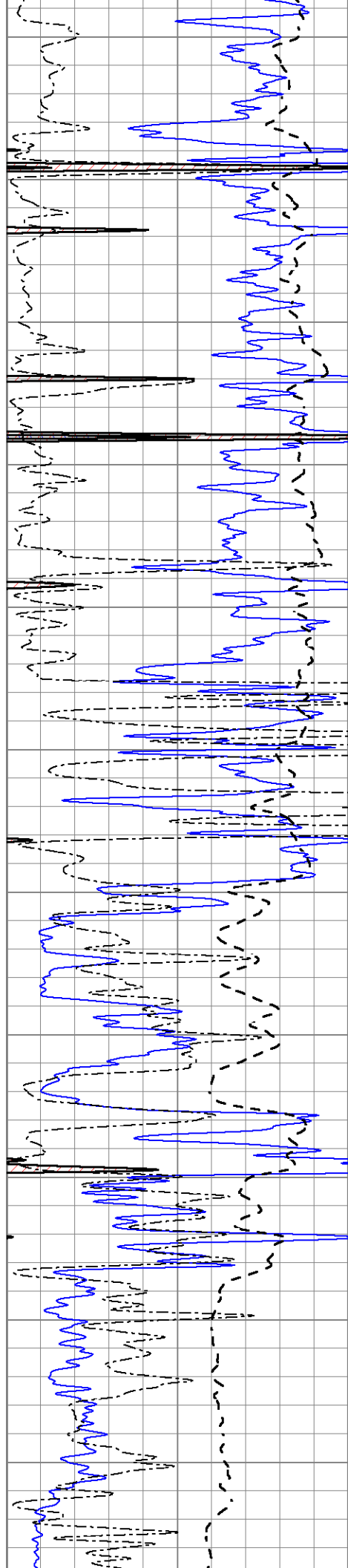
1900

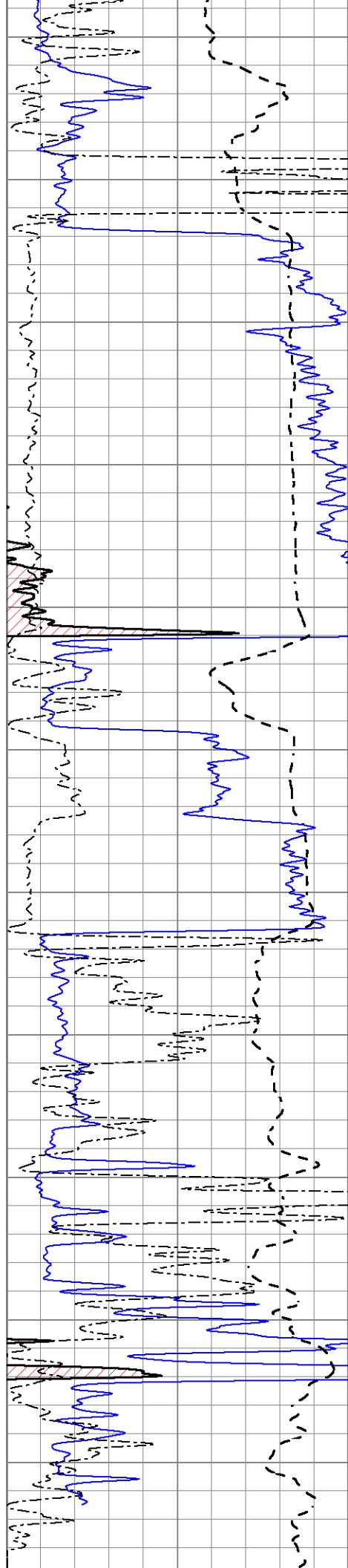
1950

2000

2050







2650

2700

2750

2800

2850

2900

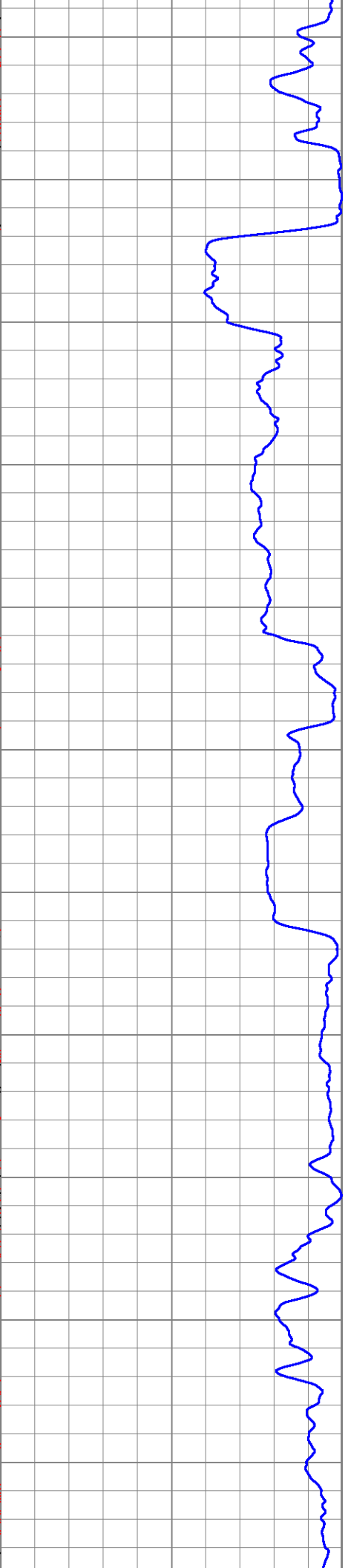
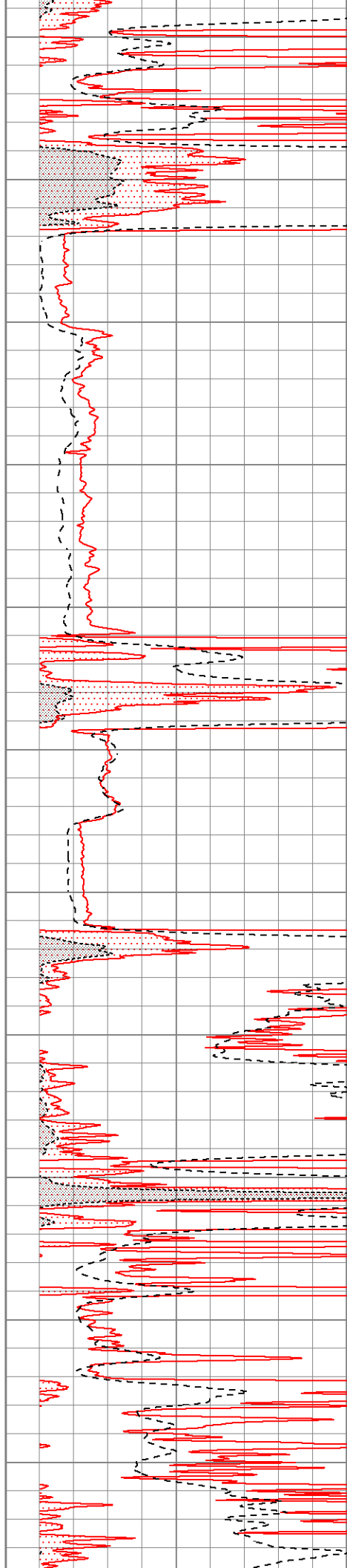
2950

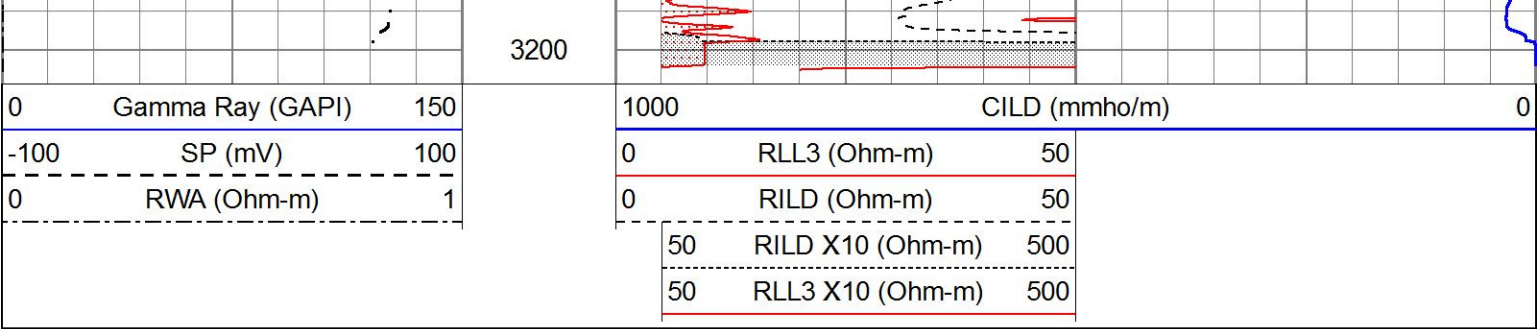
3000

3050

3100

3150

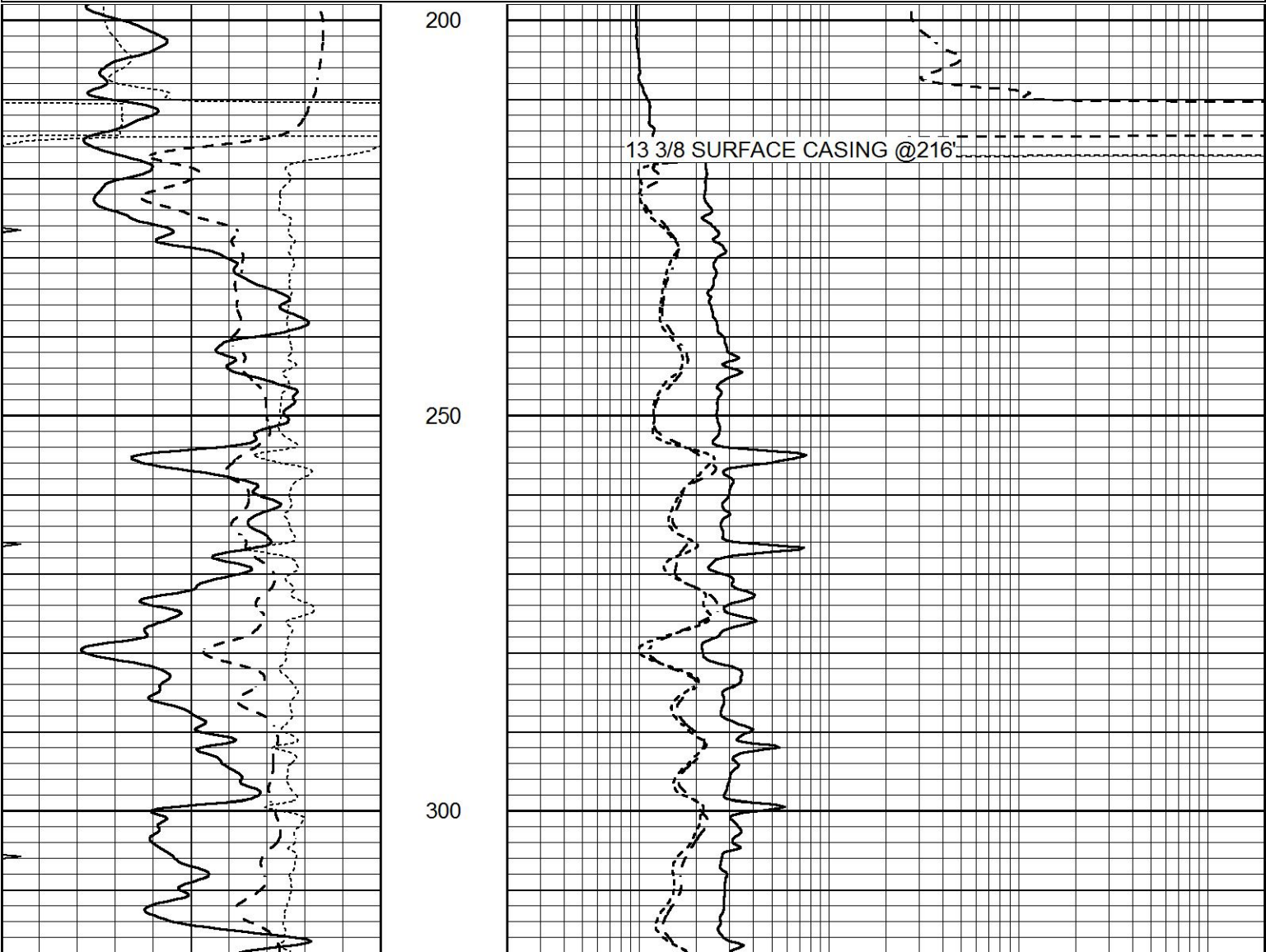


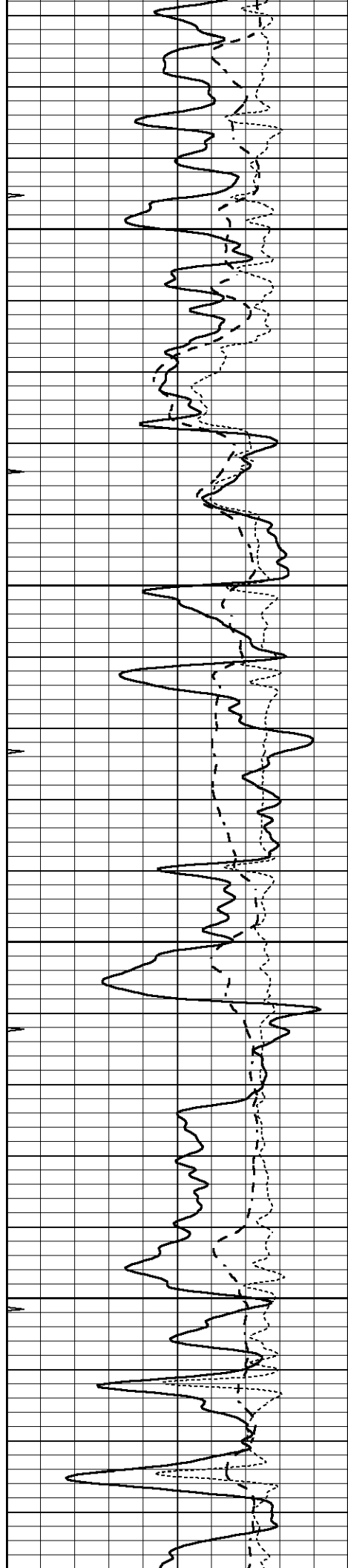


MAIN SECTION

Database File	7311pe.db
Dataset Pathname	pass3.1M
Presentation Format	_dil
Dataset Creation	Tue Aug 01 14:46:35 2023
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



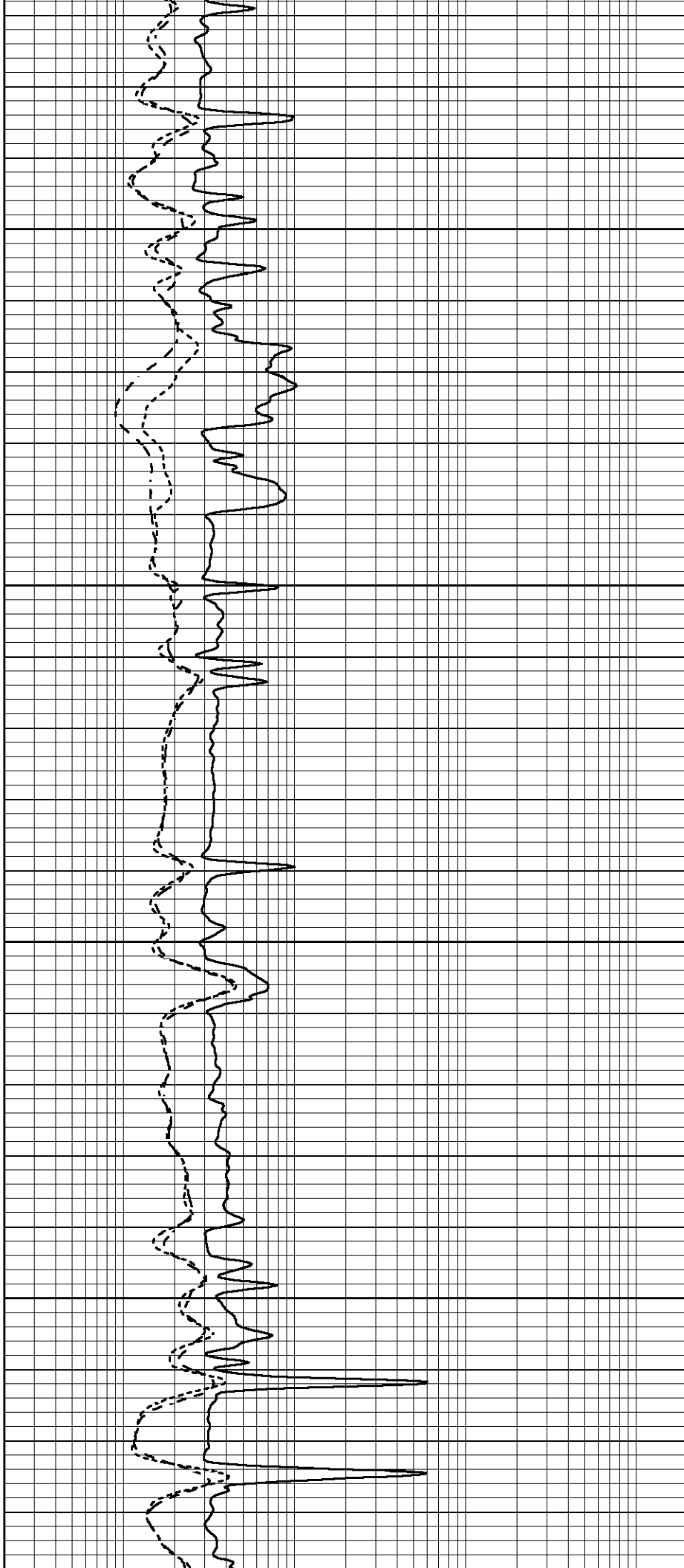


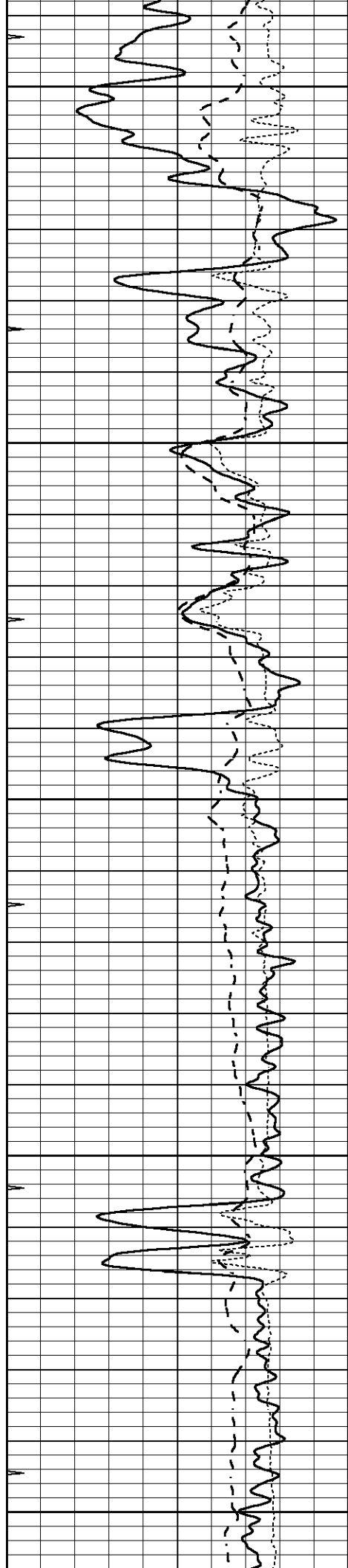
350

400

450

500





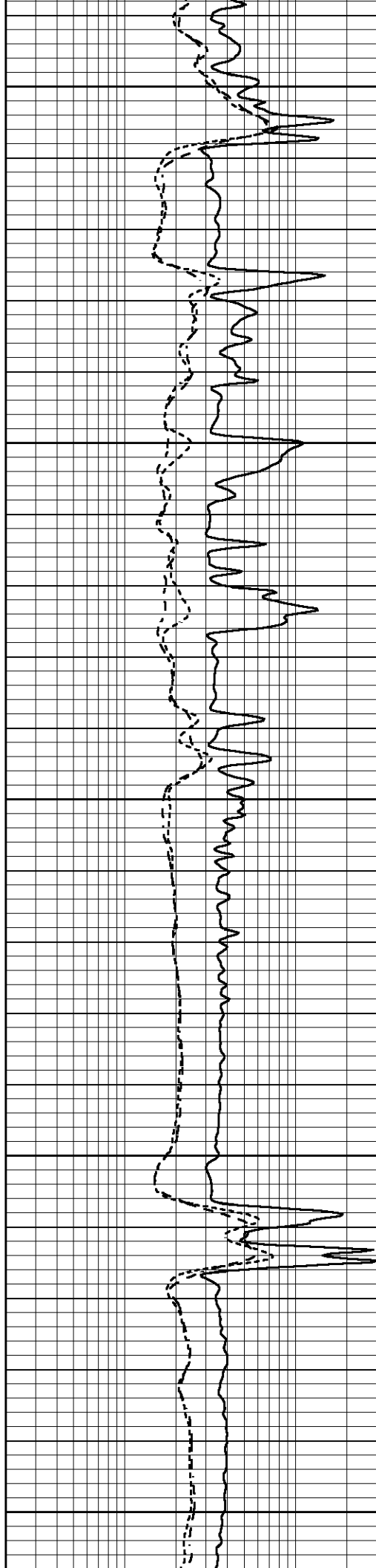
550

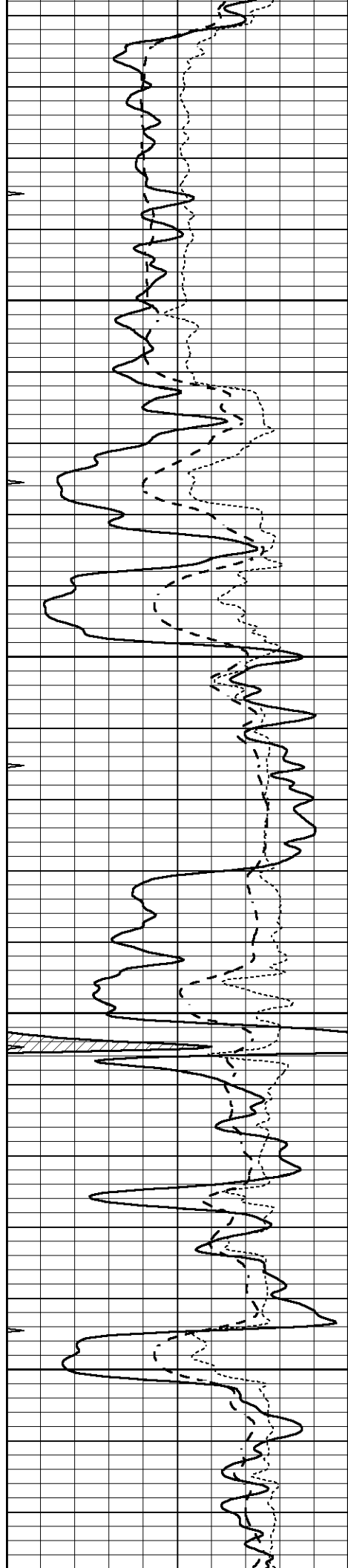
600

650

700

750



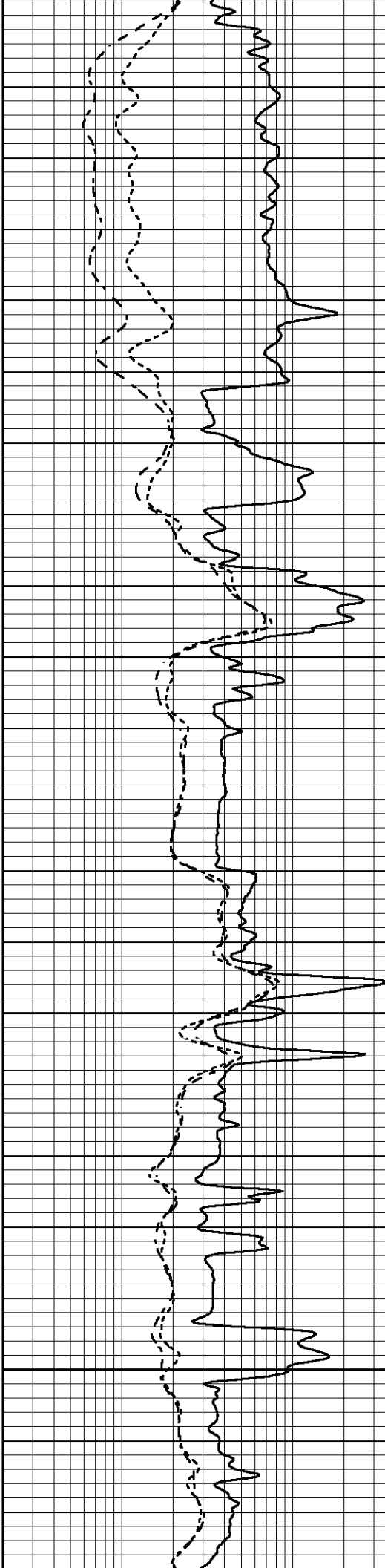


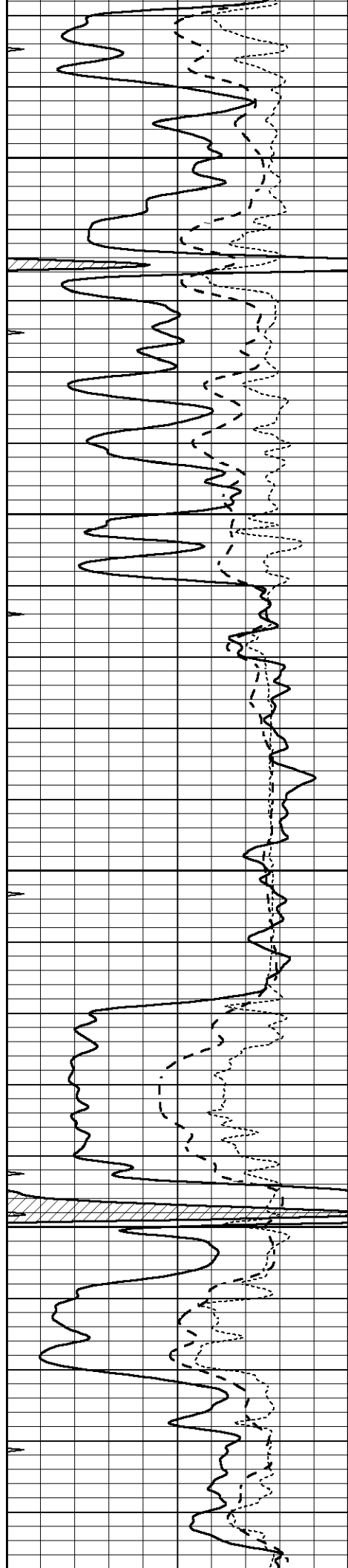
800

850

900

950



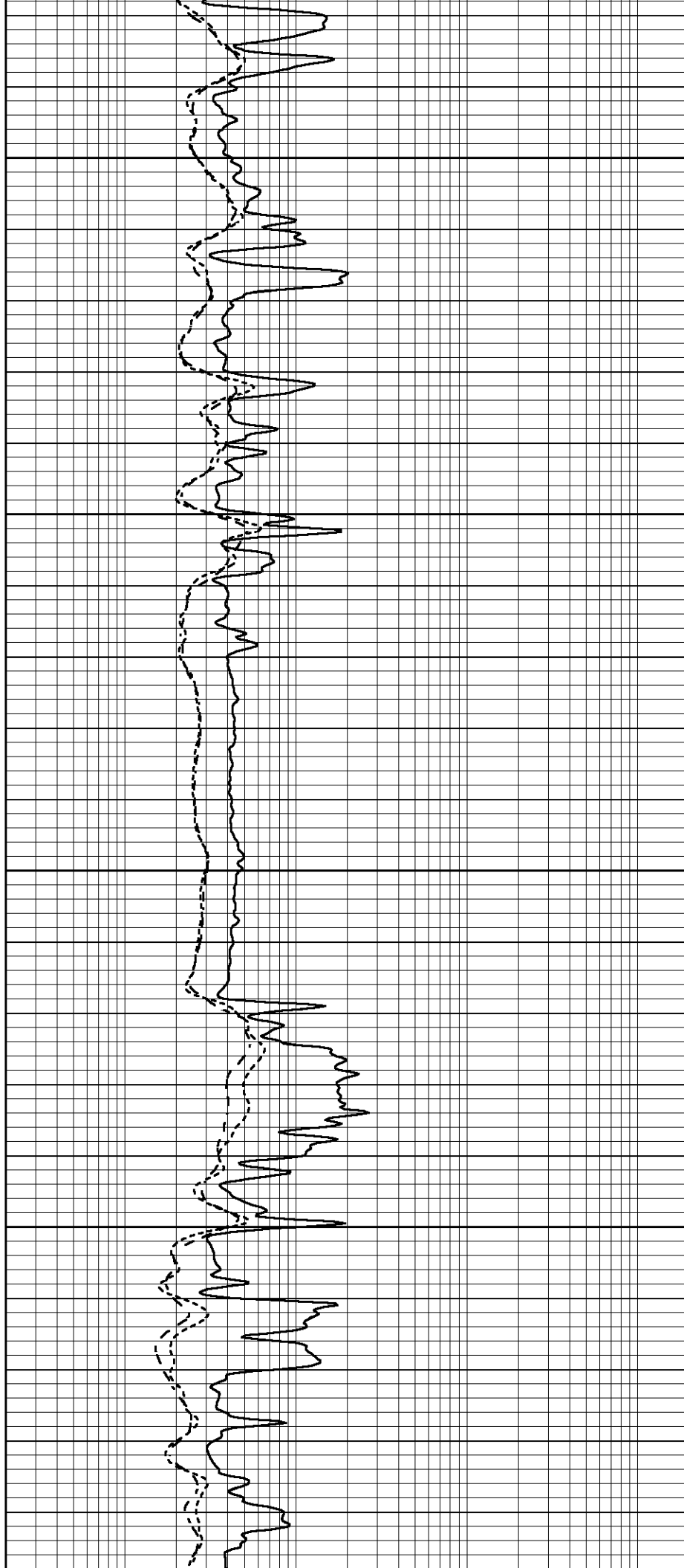


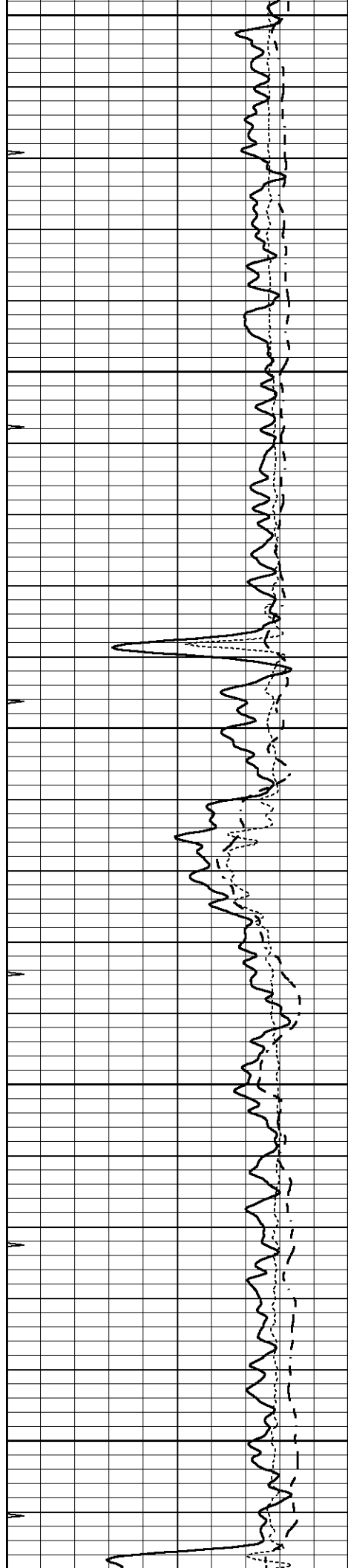
1000

1050

1100

1150





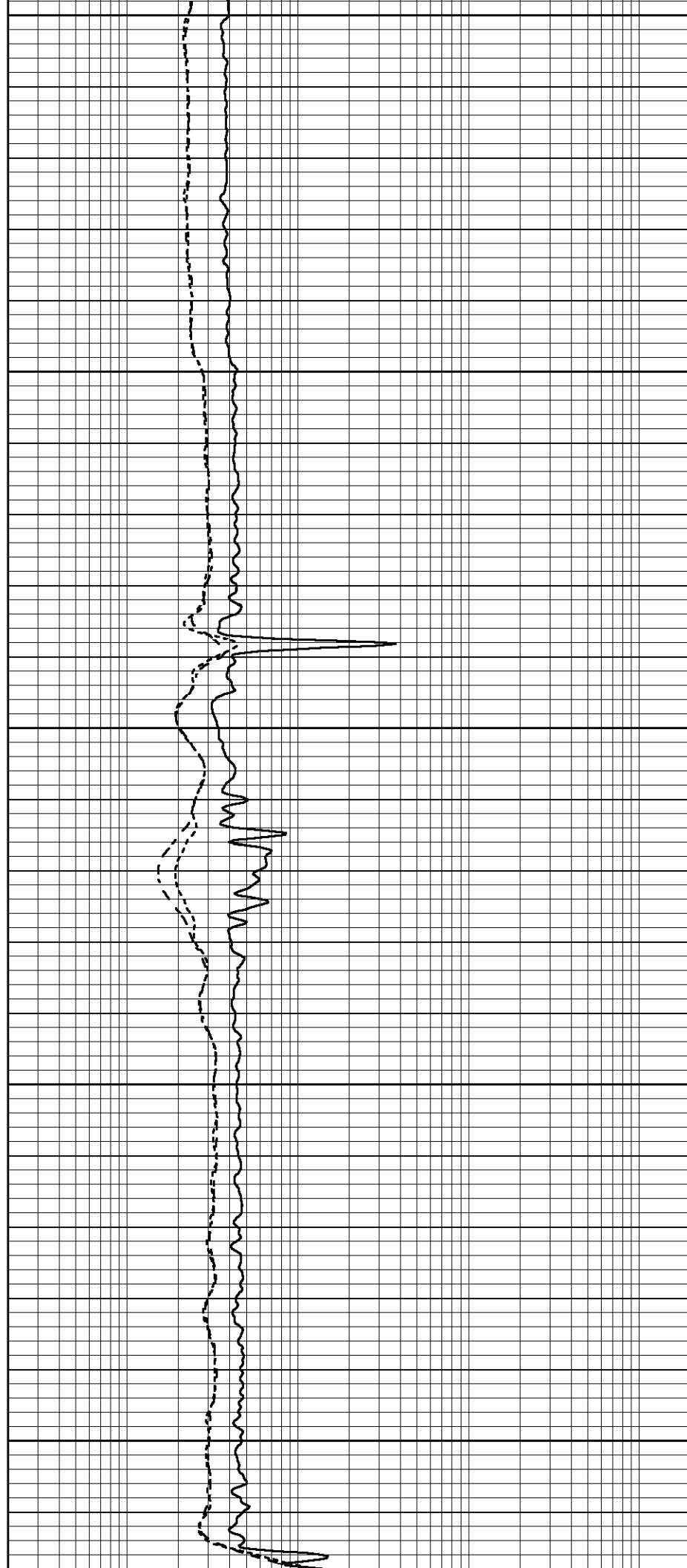
1200

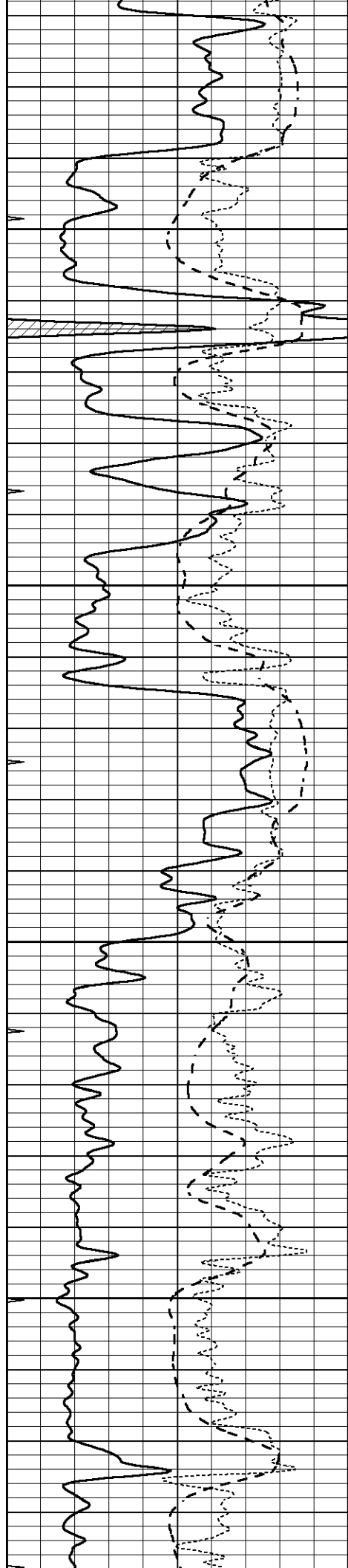
1250

1300

1350

1400



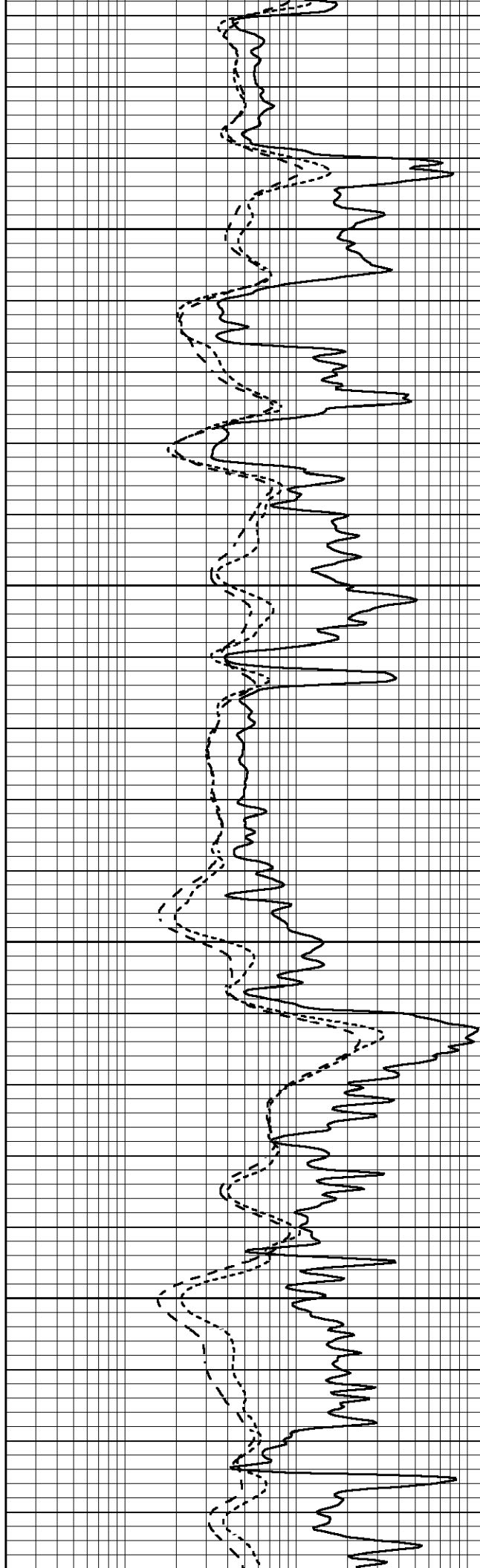


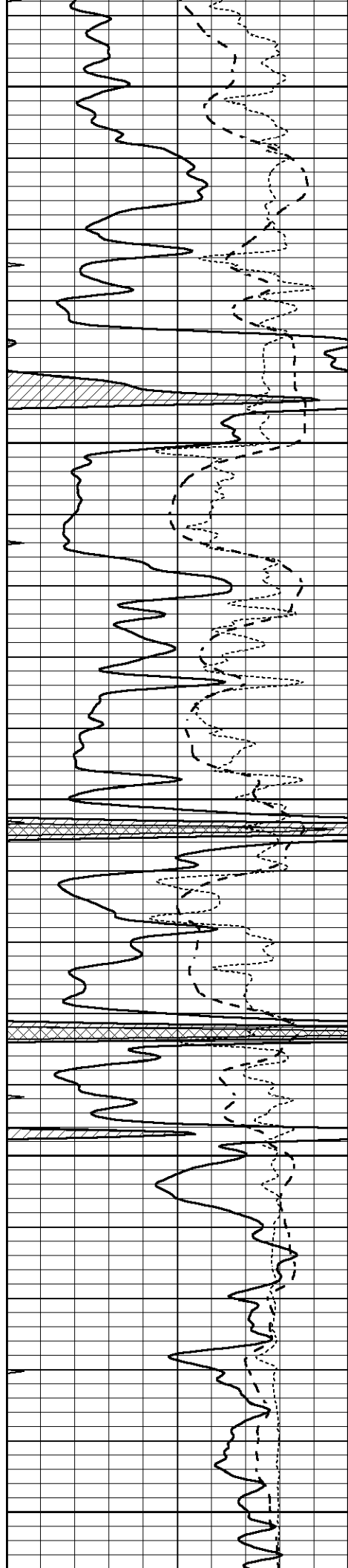
1450

1500

1550

1600





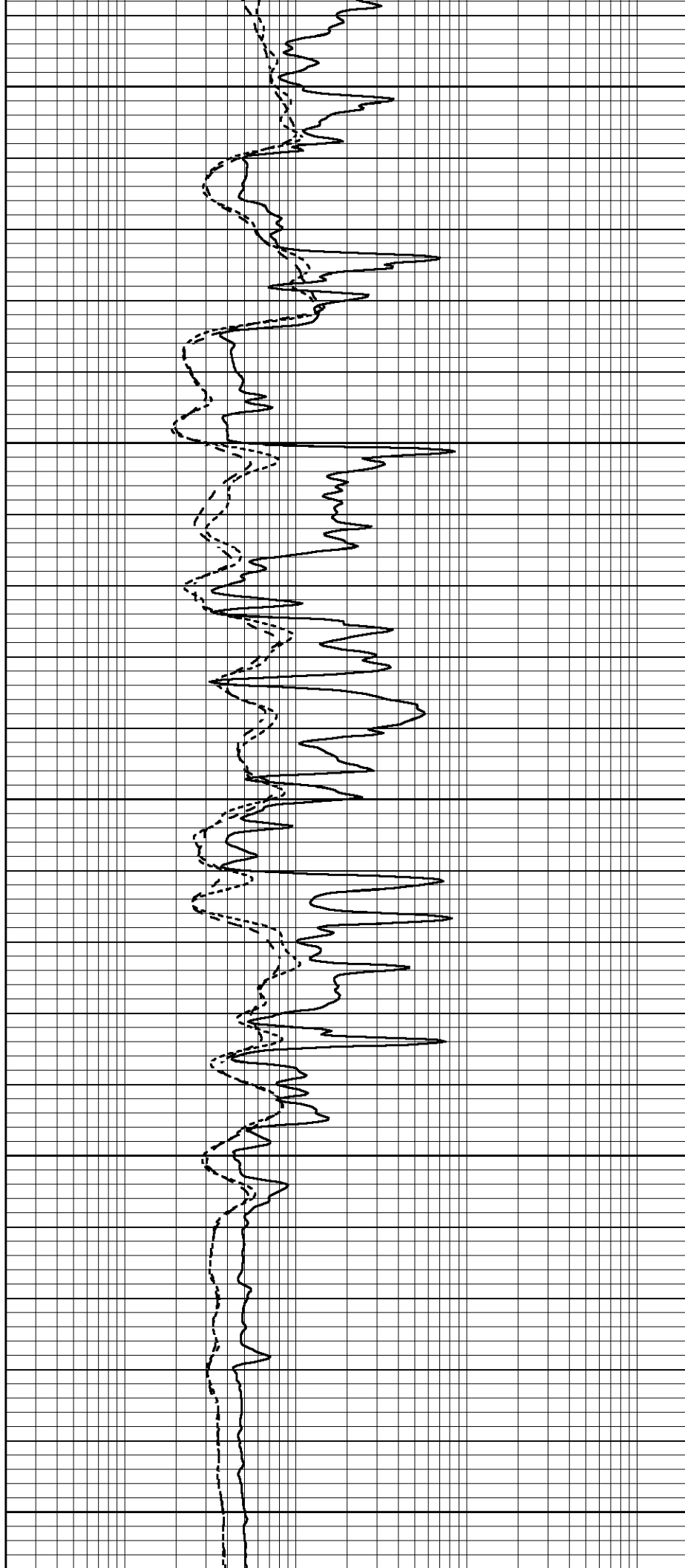
1650

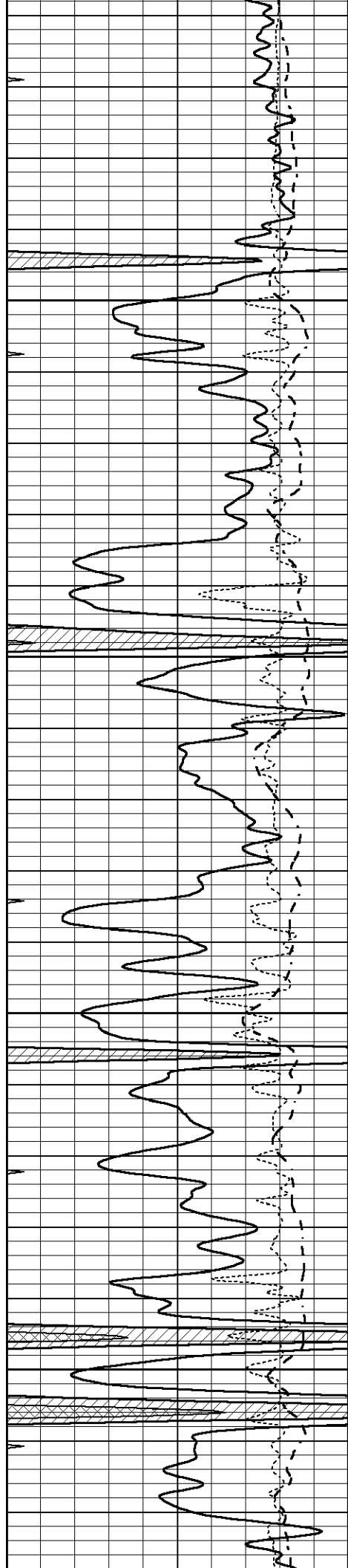
1700

1750

1800

1850



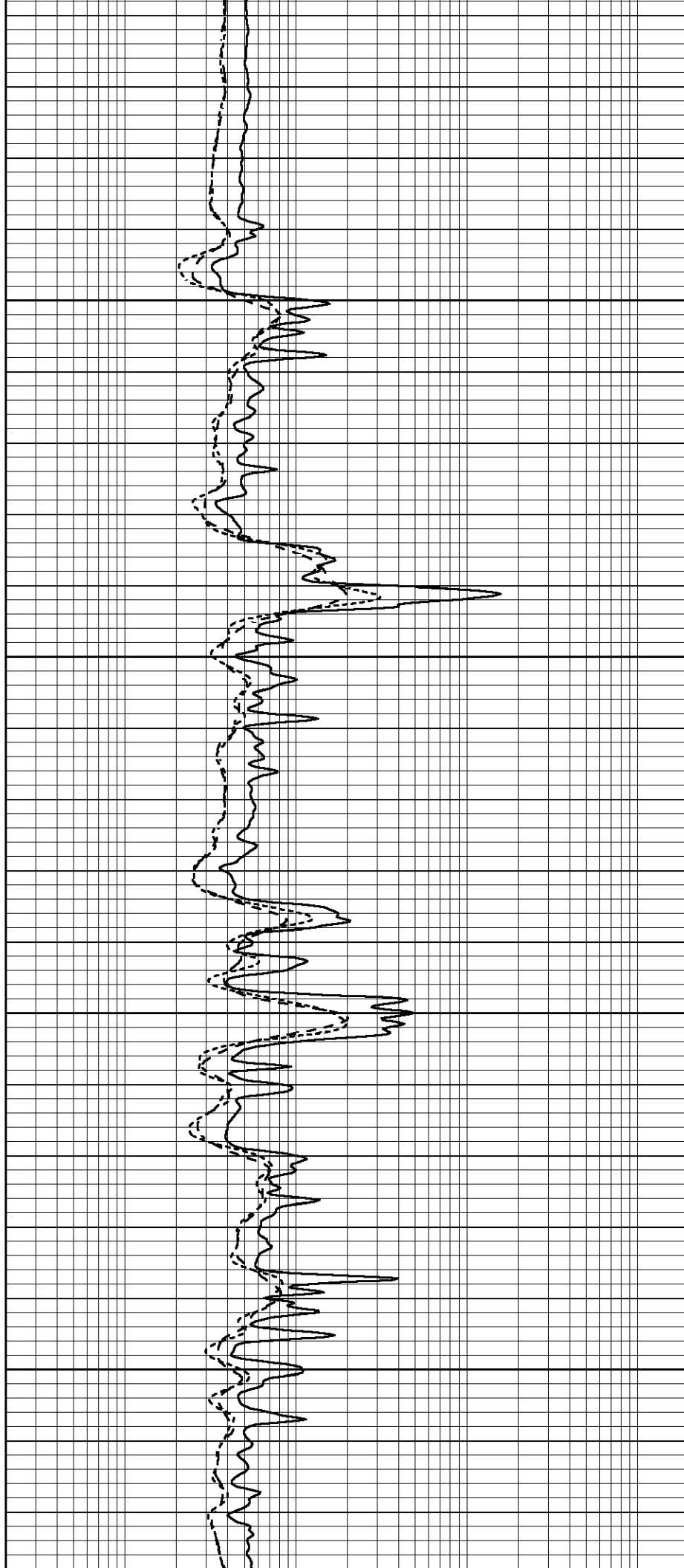


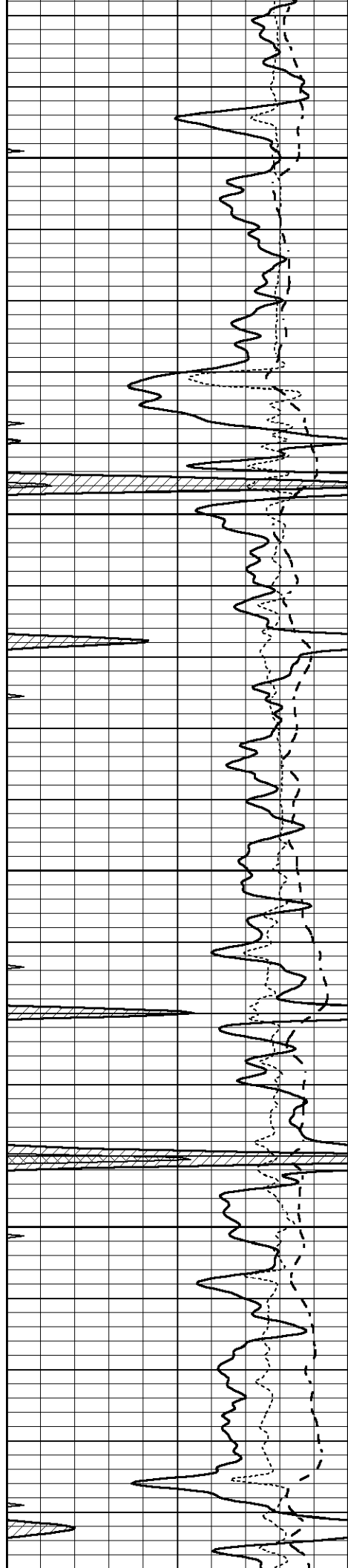
1900

1950

2000

2050



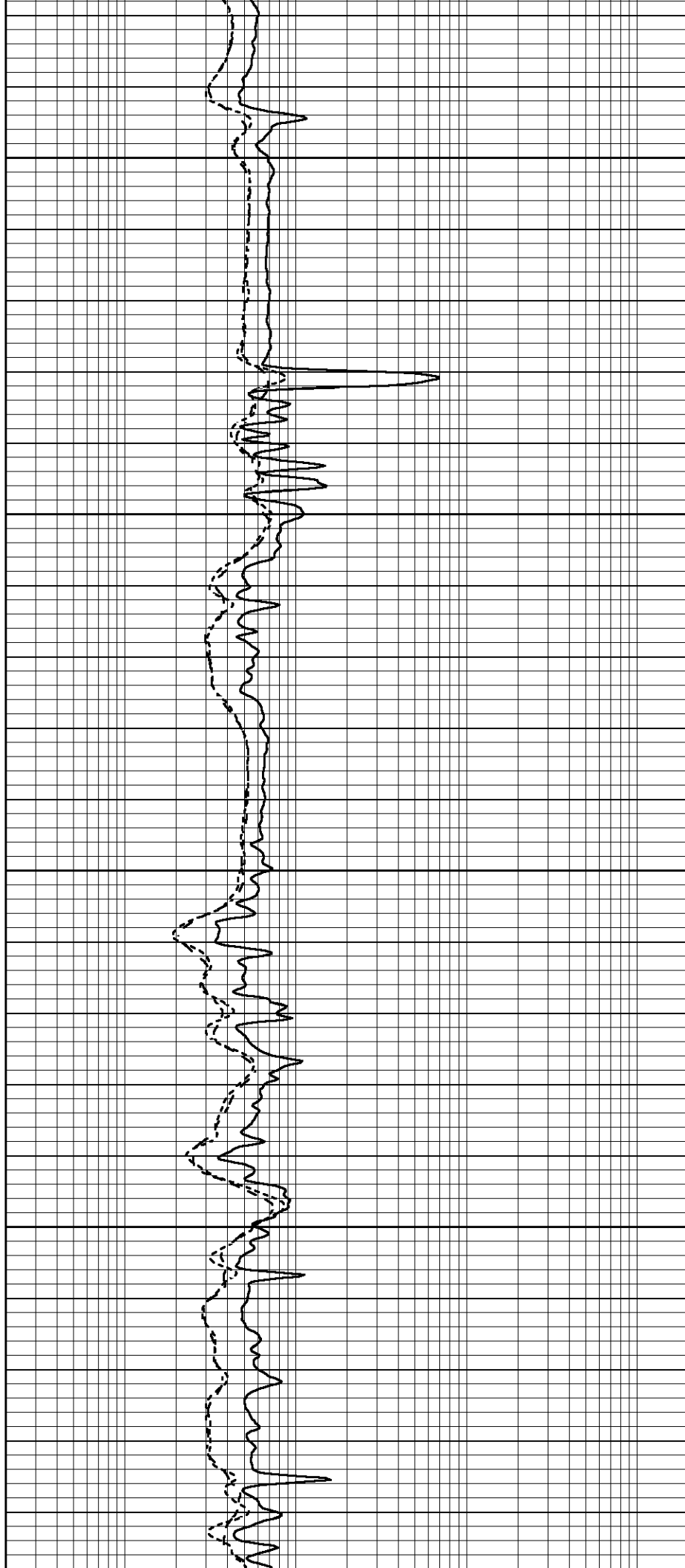


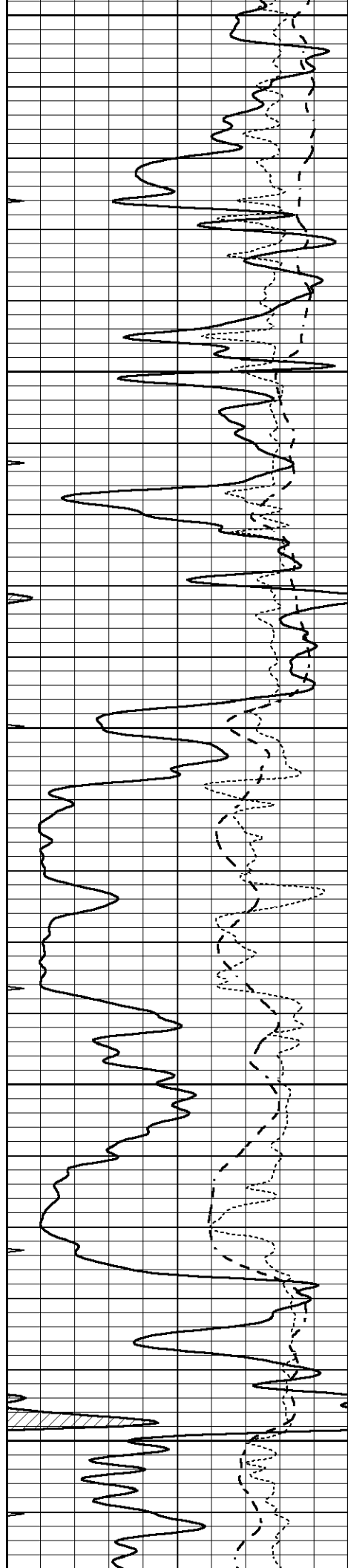
2100

2150

2200

2250





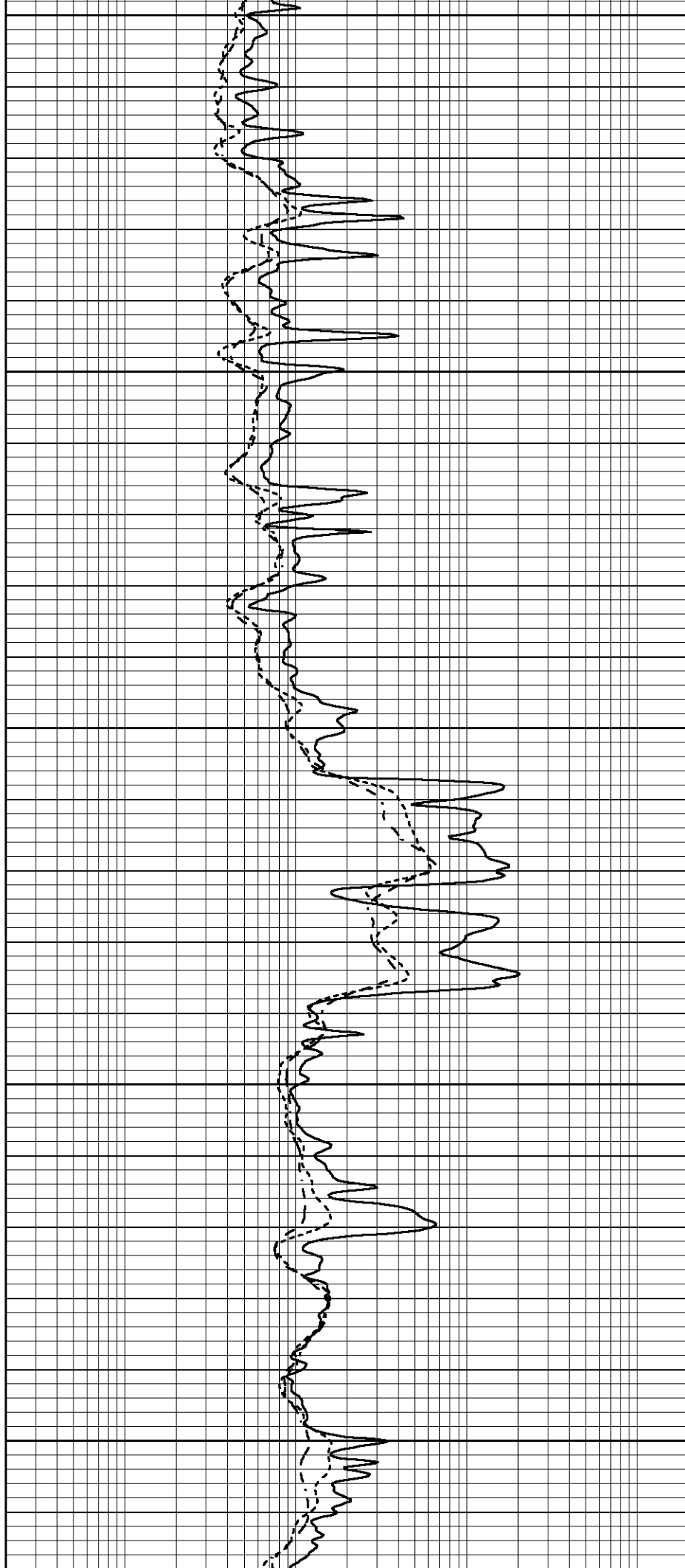
2300

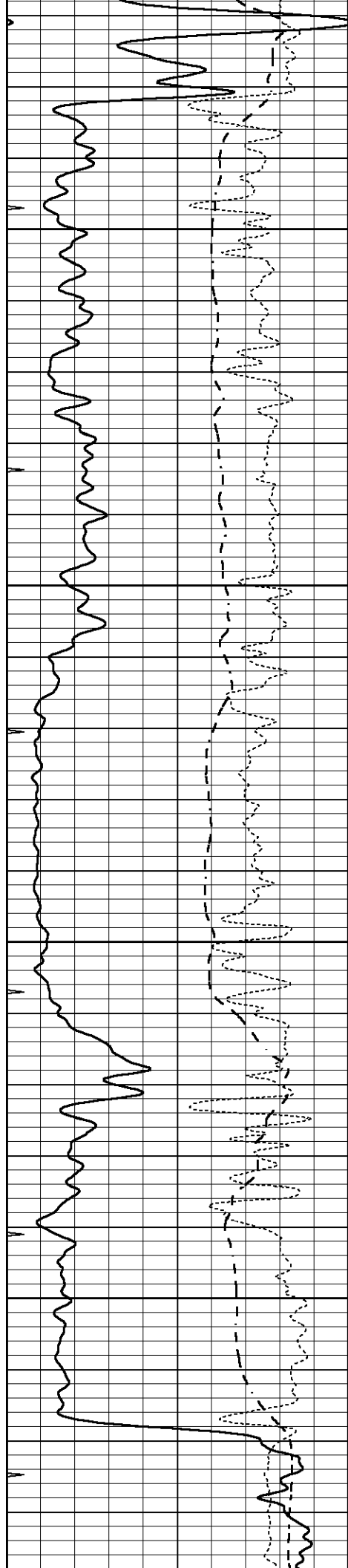
2350

2400

2450

2500



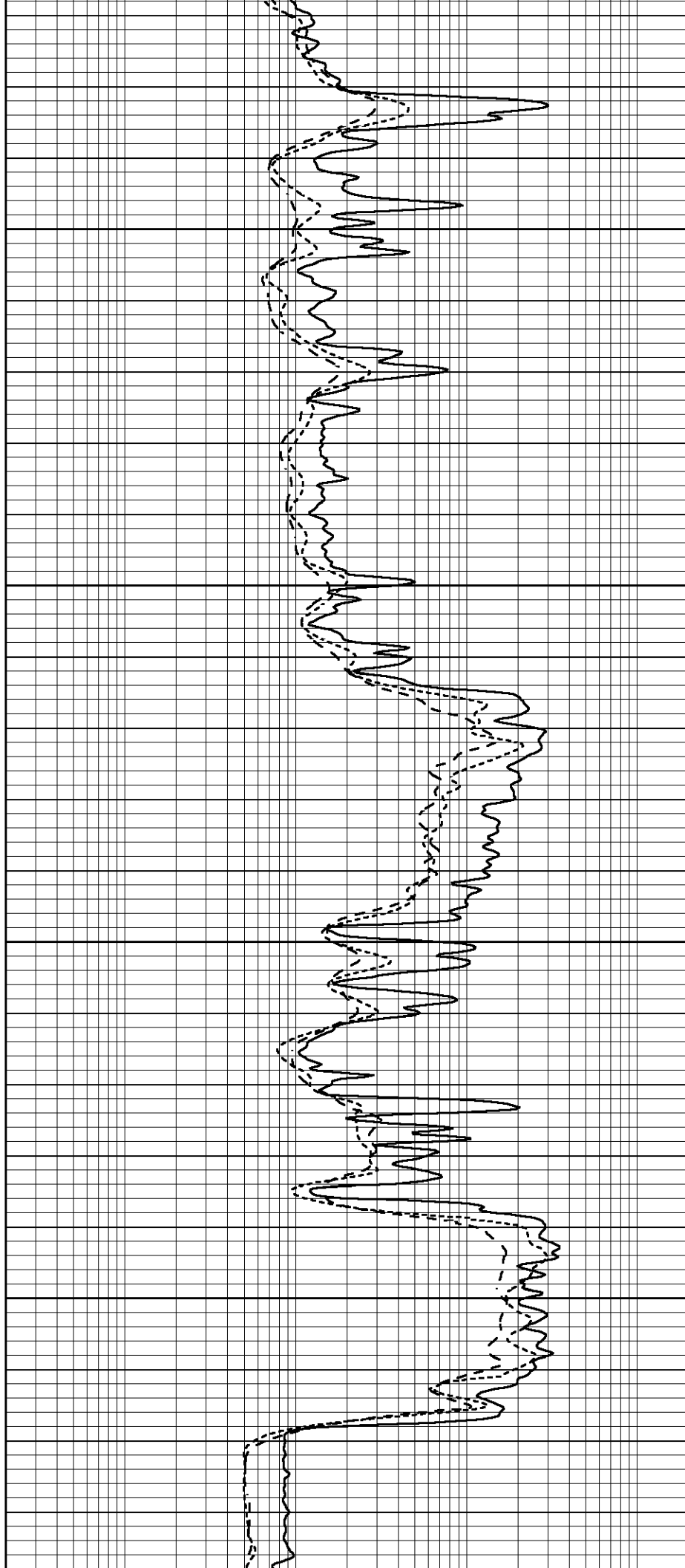


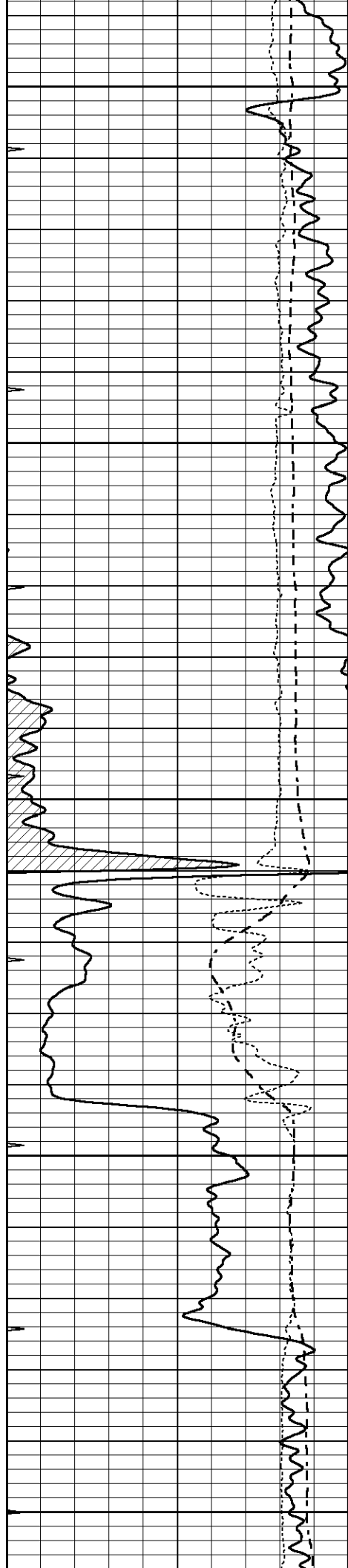
2550

2600

2650

2700





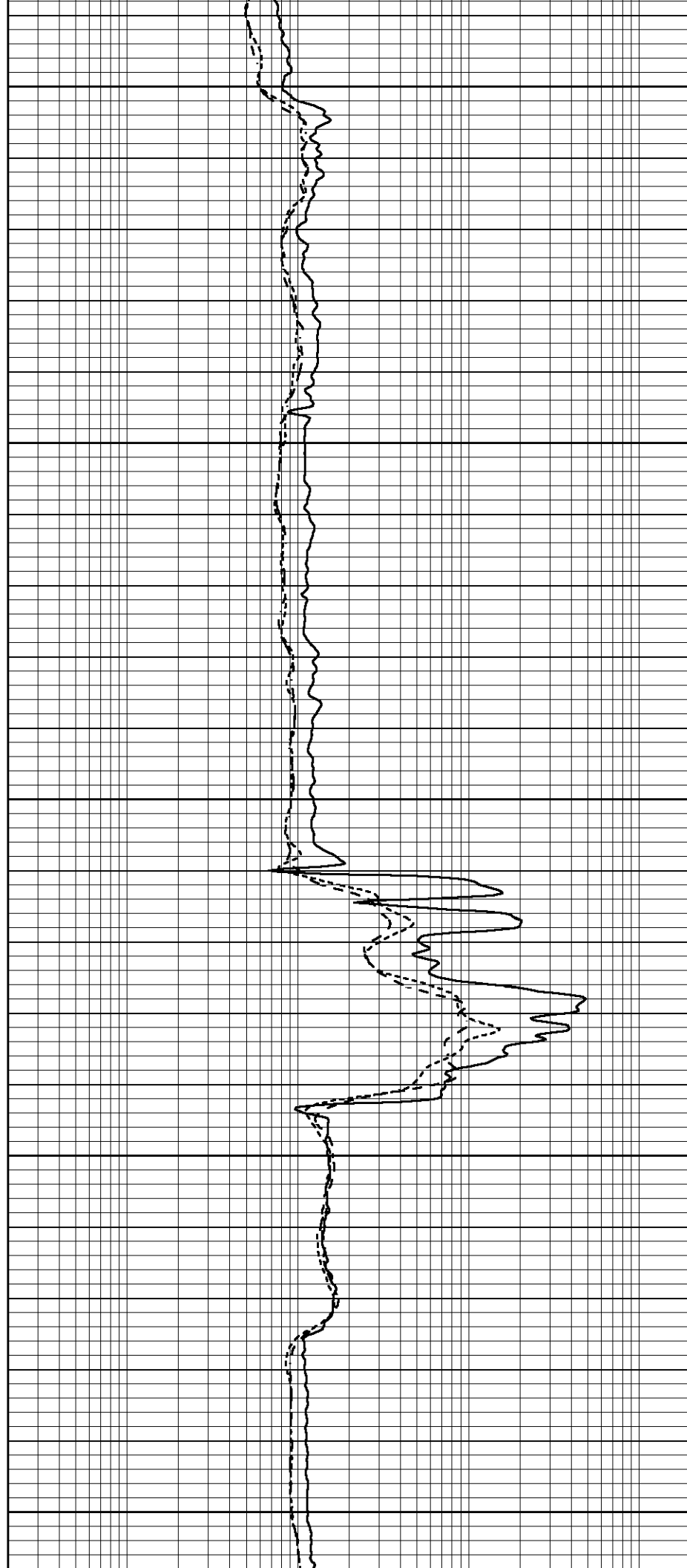
2750

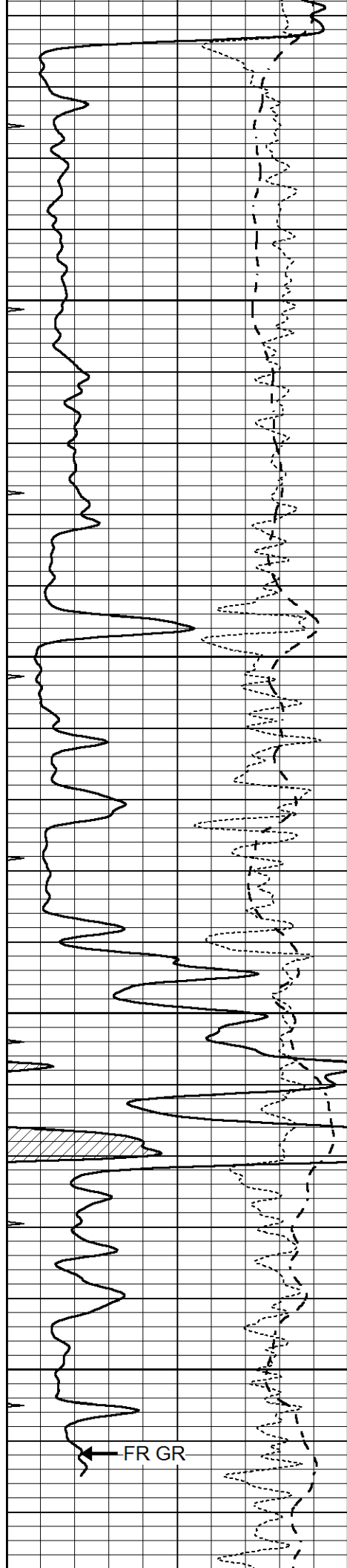
2800

2850

2900

2950





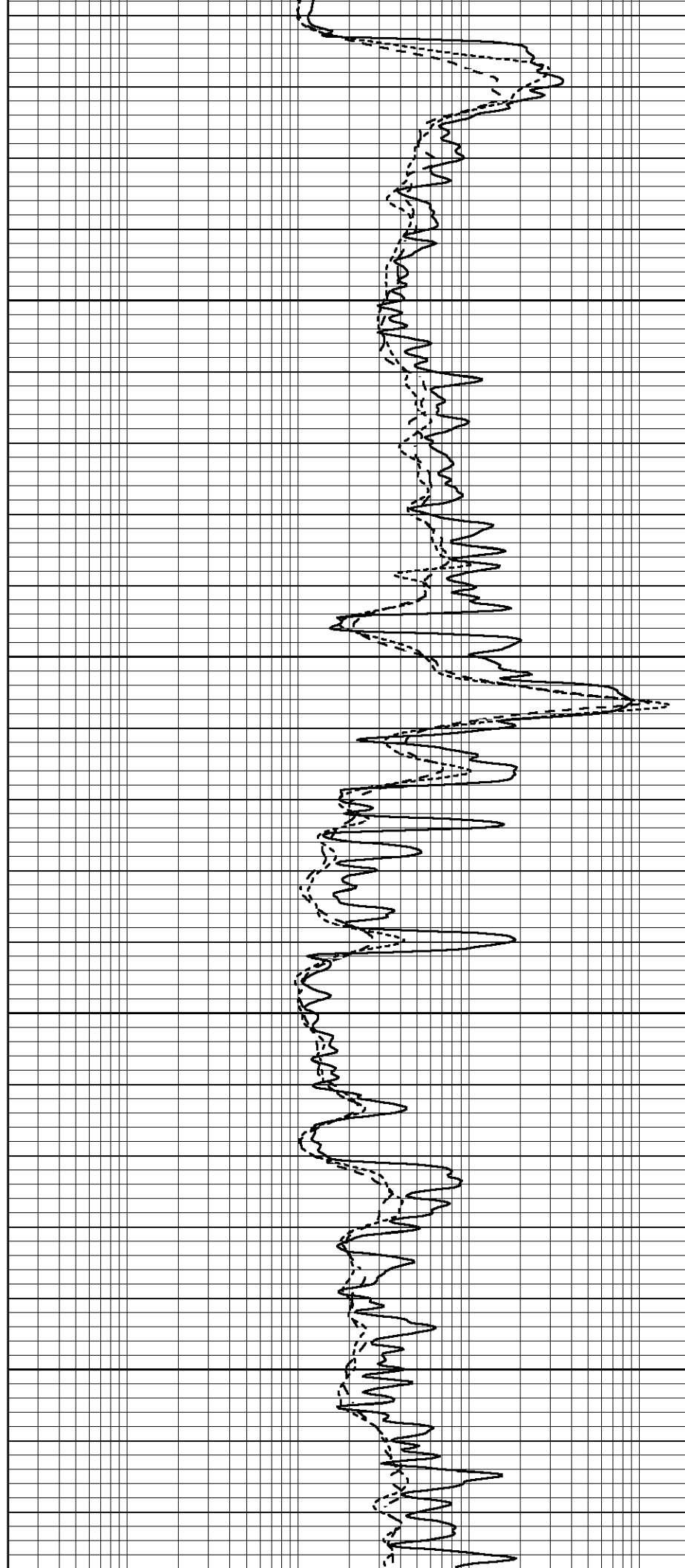
3000

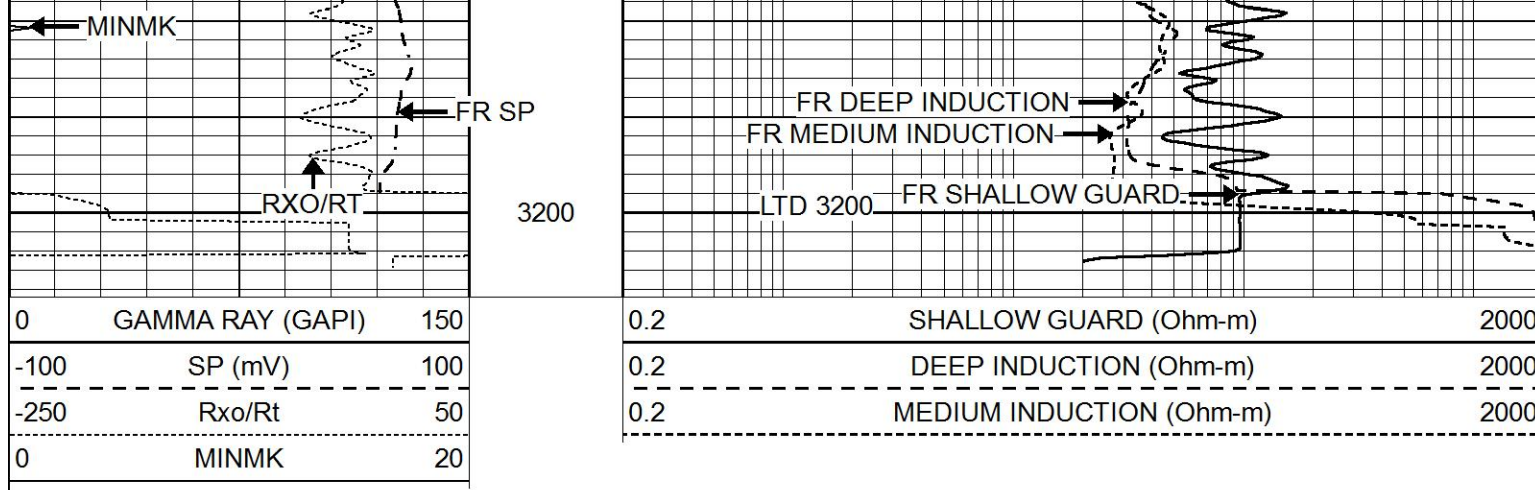
3050

3100

3150

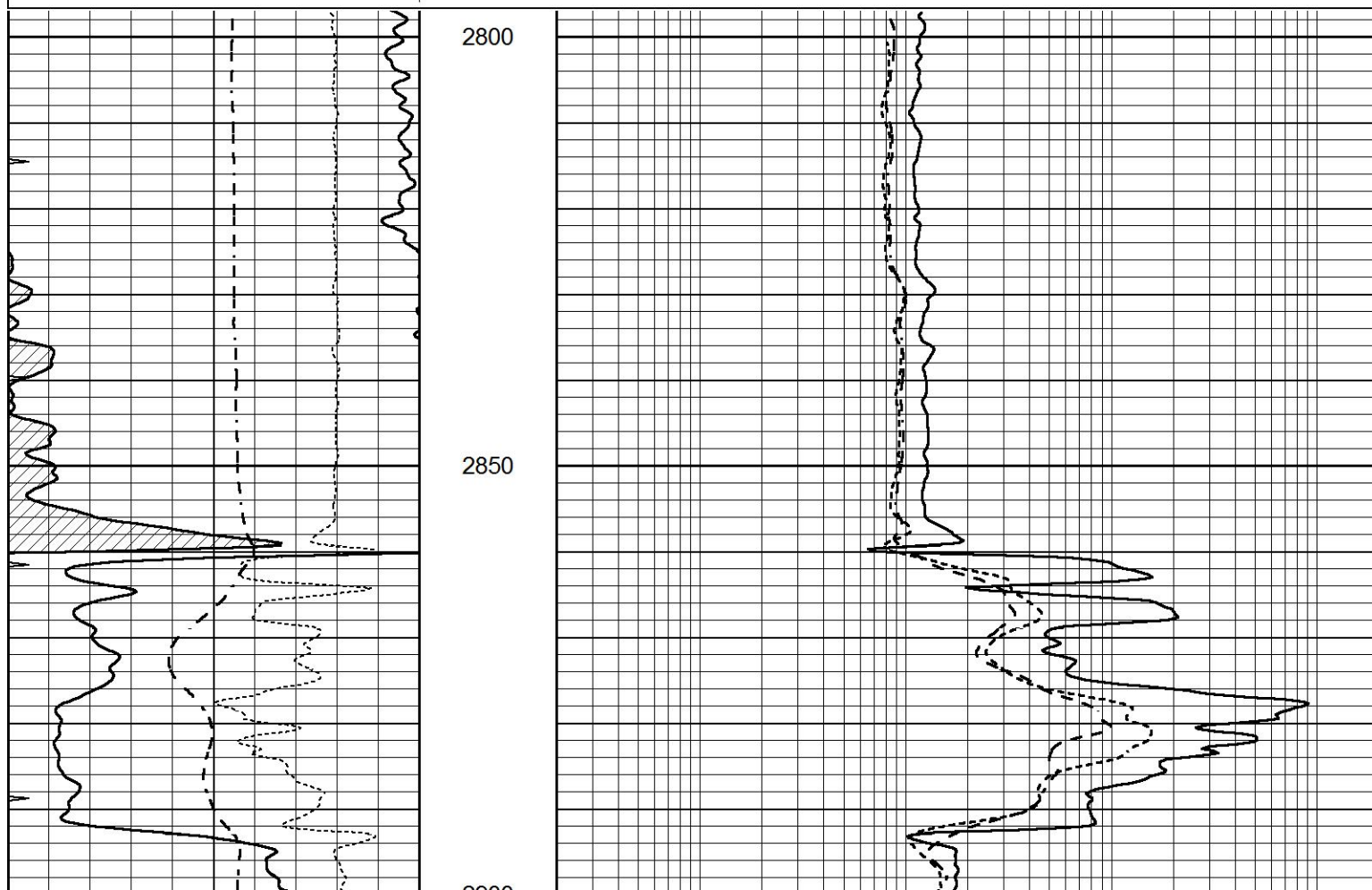
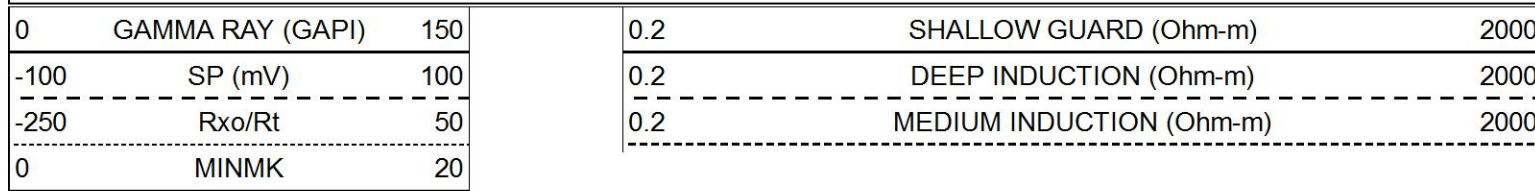
FR GR

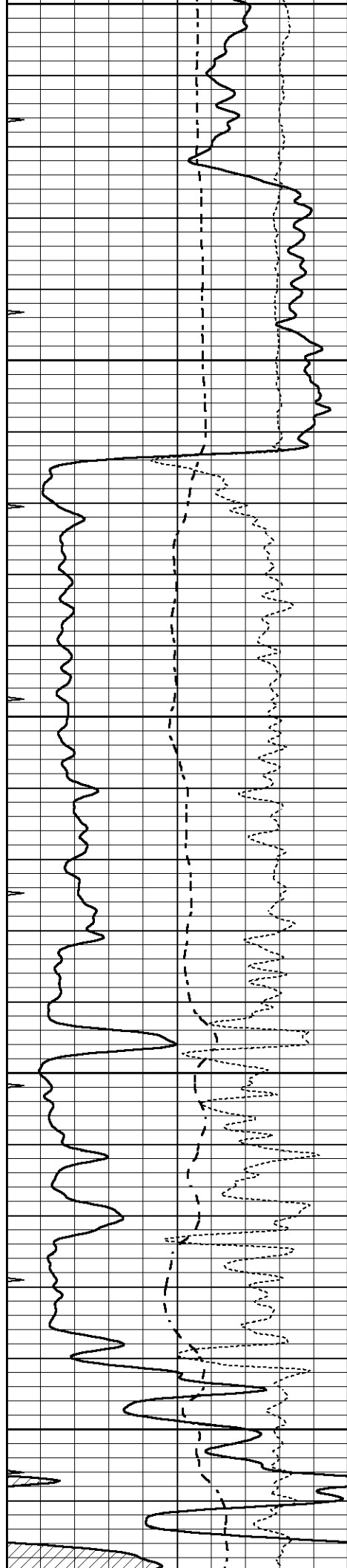




REPEAT SECTION

Database File 7311pe.db
 Dataset Pathname pass2.1R
 Presentation Format _dil
 Dataset Creation Tue Aug 01 13:24:07 2023
 Charted by Depth in Feet scaled 1:240





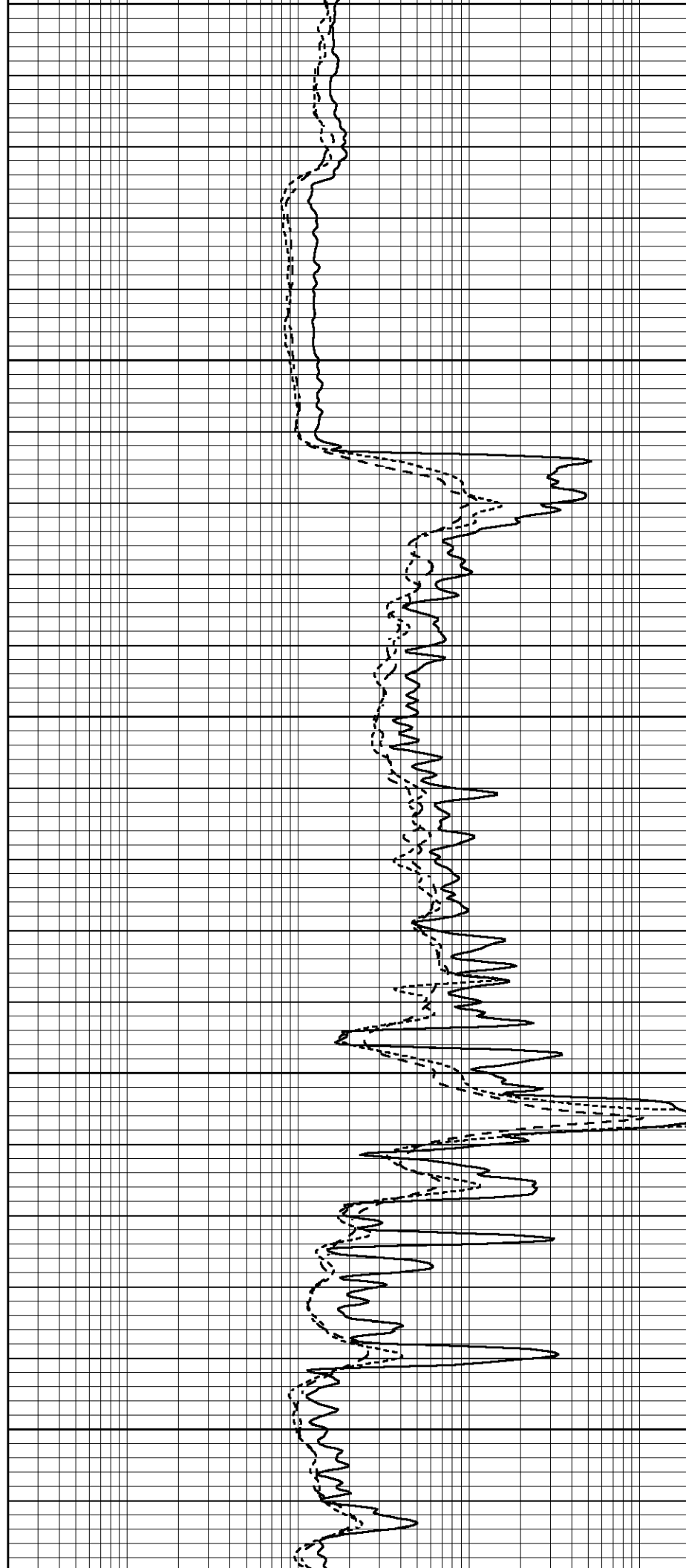
2900

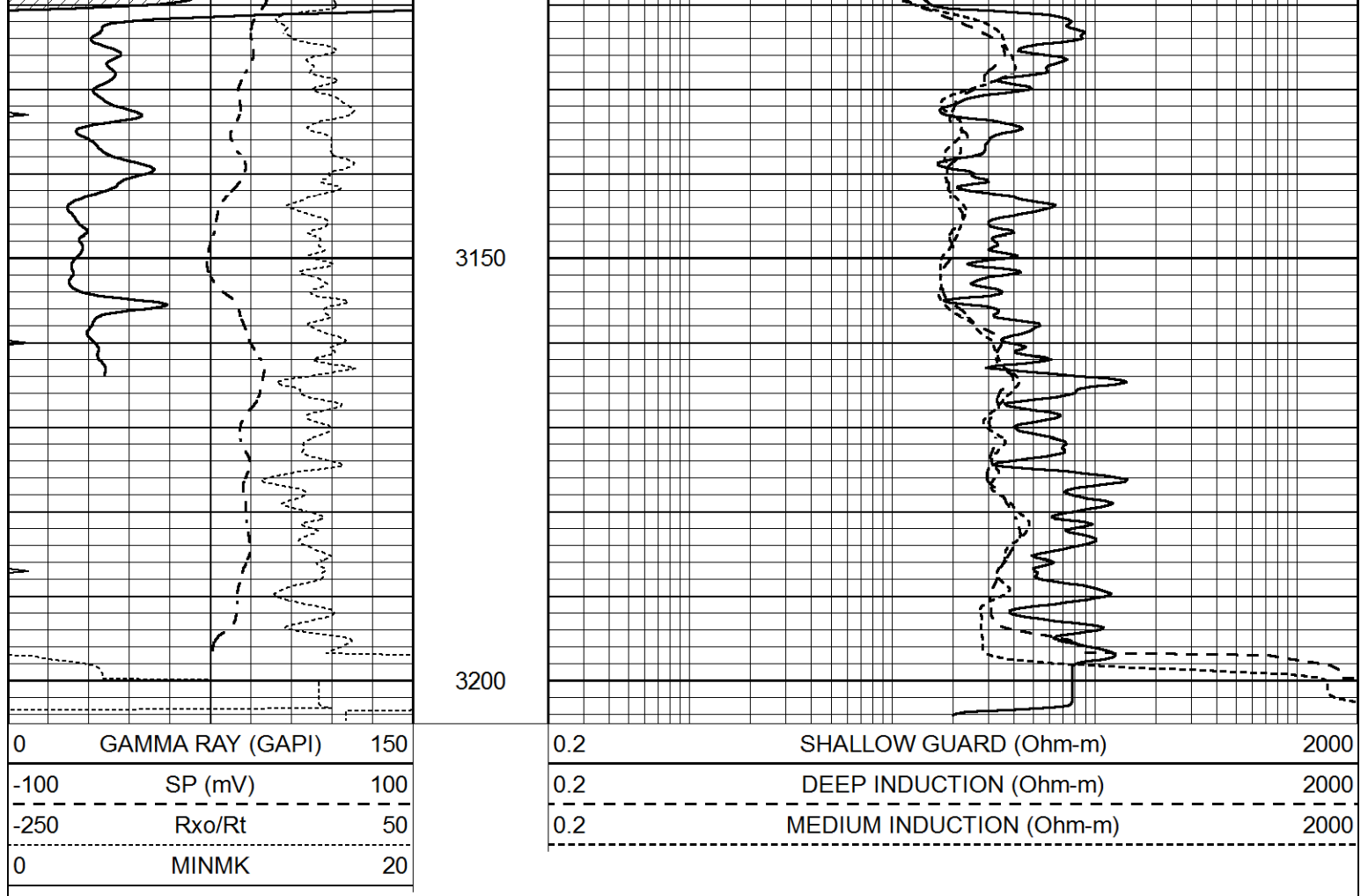
2950

3000

3050

3100





Calibration Report									
Database File	7311pe.db								
Dataset Pathname	pass3.1M								
Dataset Creation	Tue Aug 01 14:46:35 2023								
Dual Induction Calibration Report									
Serial-Model:				PROBE8-DILG					
Surface Cal Performed:				Tue Jul 25 03:40:20 2023					
Downhole Cal Performed:				Mon Jul 28 11:08:27 2008					
After Survey Verification Performed:				Mon Jul 28 11:08:27 2008					
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.015	0.648	V	0.000	400.000	mmho/m	660.000	9.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	620.000	1.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619	
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739	
Downhole Calibration									
		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000	
LL3		7.500	V		1500.000	Ohm-m			

	0.000	V		20.000	Ohm-m
	-7.200	V		3800.000	mmho-m
After Survey Verification					
	Readings			Targets	
				Results	
	Zero	Cal		Zero	Cal
Deep	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000
		0.000	Ohm-m		0.000
		1.000	mmho-m		1.000

Litho Density Calibration Report					
Serial: 004			Model: PRB		

Master Calibration			Performed Tue Aug 02 11:29:35 2022		
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1154.2	10019.5	3137.9	2795.6	cps
Window 2	1054.4	8597.6	2733.4	2469.5	cps
Window 3	902.3	5241.4	1832.1	1719.3	cps
Window 4	251.9	261.1	255.8	252.9	cps
Long Space	0.0	7543.2	1679.0	1415.0	cps
Short Space	4.4	2049.3	1321.7	1116.8	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio	: 0.562
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept	: -17.2

Before Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report					
--	--	--	--	--	--

Serial Number:			070808PMC		
Tool Model:			NABORS		

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	070558		
Tool Model:	OPEN_GR		
Performed:	Tue Aug 01 12:36:48 2023		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	