



**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

INC.

Company LIBERTY OPERATIONS & COMPLETIONS,
Well GREEN #2
Field LYND POOL
County ROOKS
State KANSAS

Company LIBERTY OPERATIONS & COMPLETIONS, INC.
Well GREEN #2
Field LYND POOL
County ROOKS State KANSAS

Location: 380' FNL & 1650' FWL
API # : 15-163-24157-0000
Permanent Datum GROUND LEVEL Elevation 2222
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
SEC 33 TWP 9S RGE 19W
Other Services
CDL/CNL/PE
DIL/MEL
Elevation
K.B. 2227
D.F. 2225
G.L. 2222

Date	9/25/13
Run Number	TWO
Depth Driller	3795
Depth Logger	3794
Bottom Logged Interval	3784
Top Log Interval	200
Casing Driller	8 5/8" @ 213
Casing Logger	214
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/50
pH / Fluid Loss	9.0/8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.65 @ 98F
Rmt @ Meas. Temp	.48 @ 98F
Rmc @ Meas. Temp	.78 @ 98F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.55 @ 114F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	114F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	TONY RICHARDSON

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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.

Comments

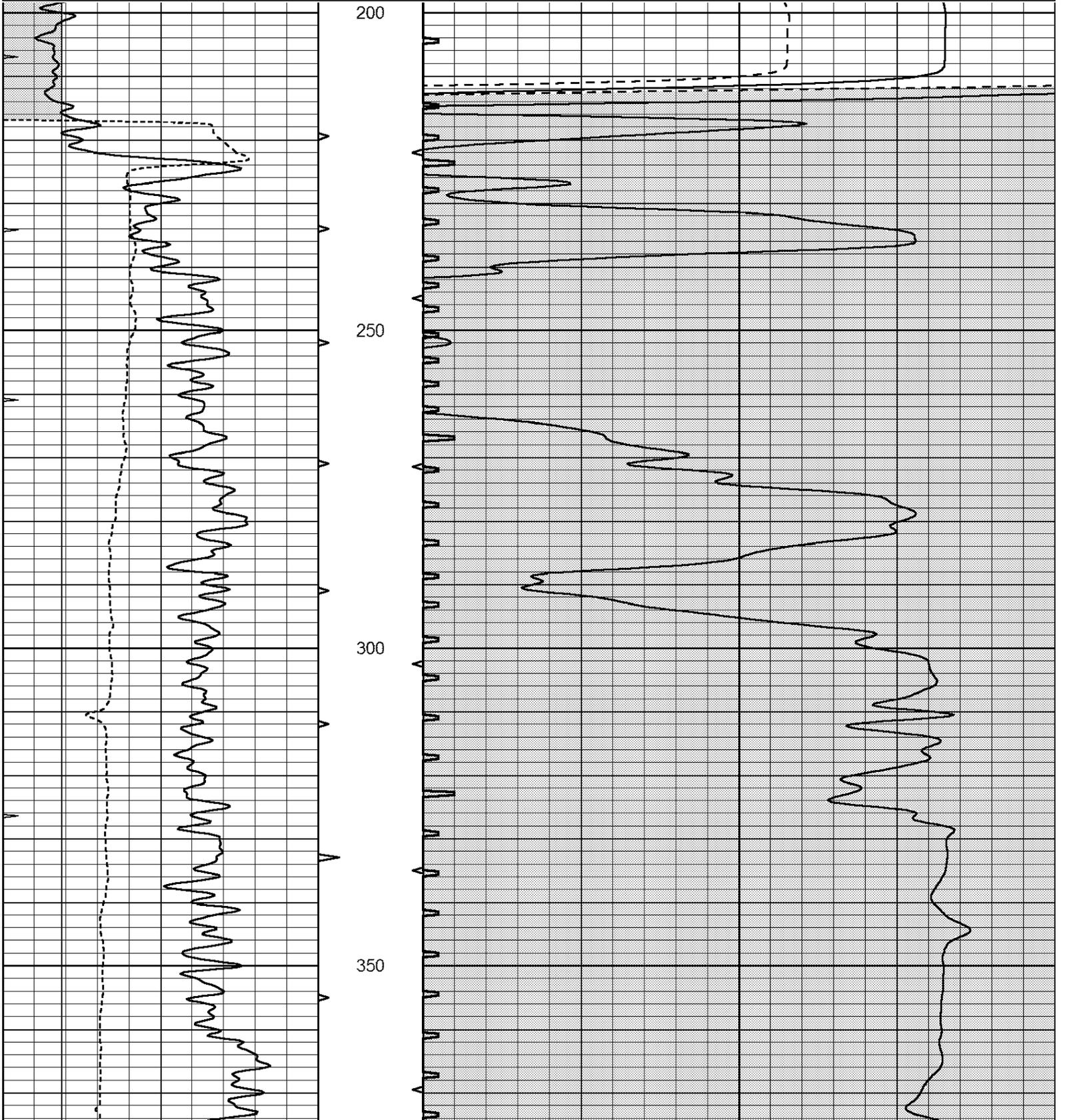
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
ZURICH, KS. - 3/4 W. - S. INTO

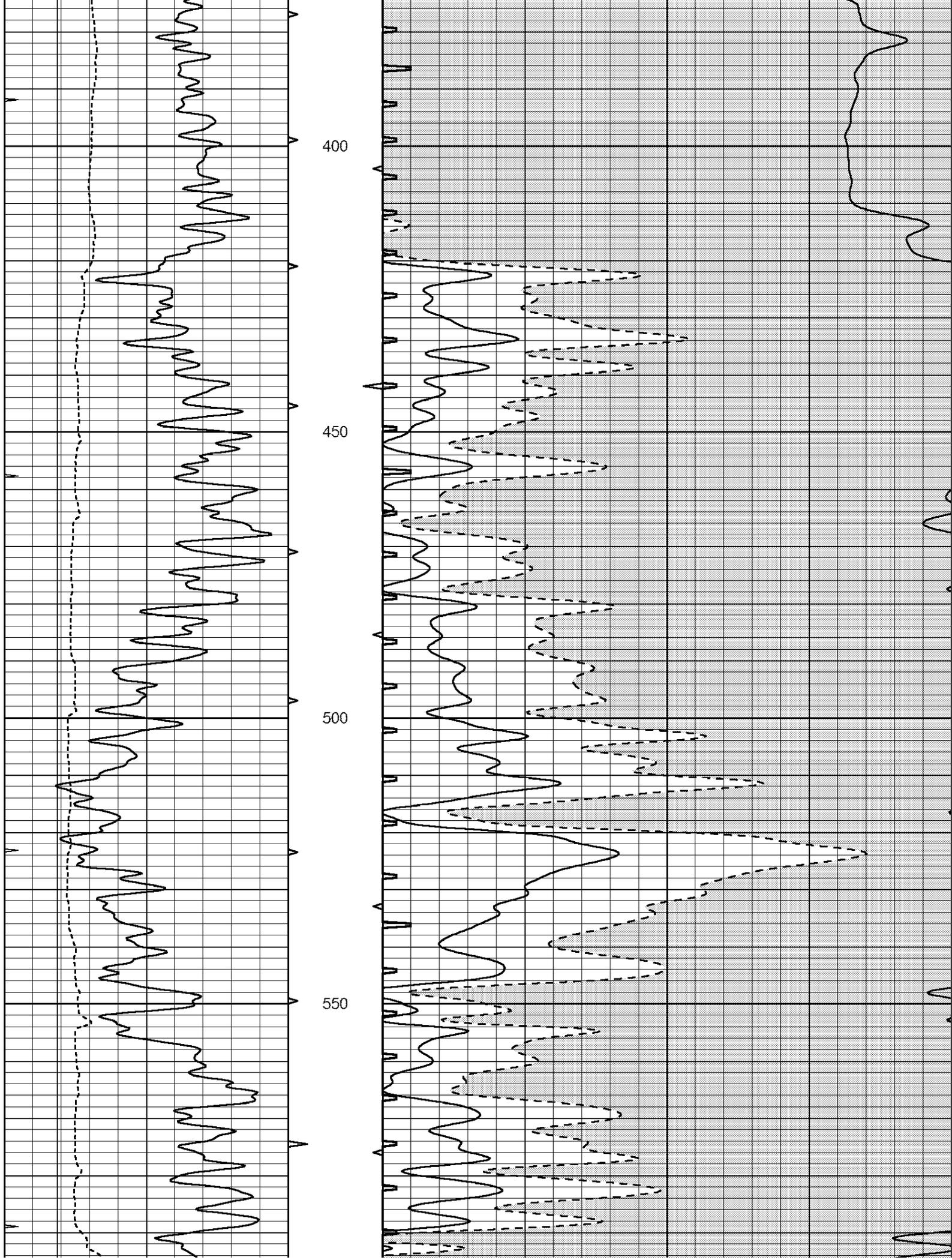


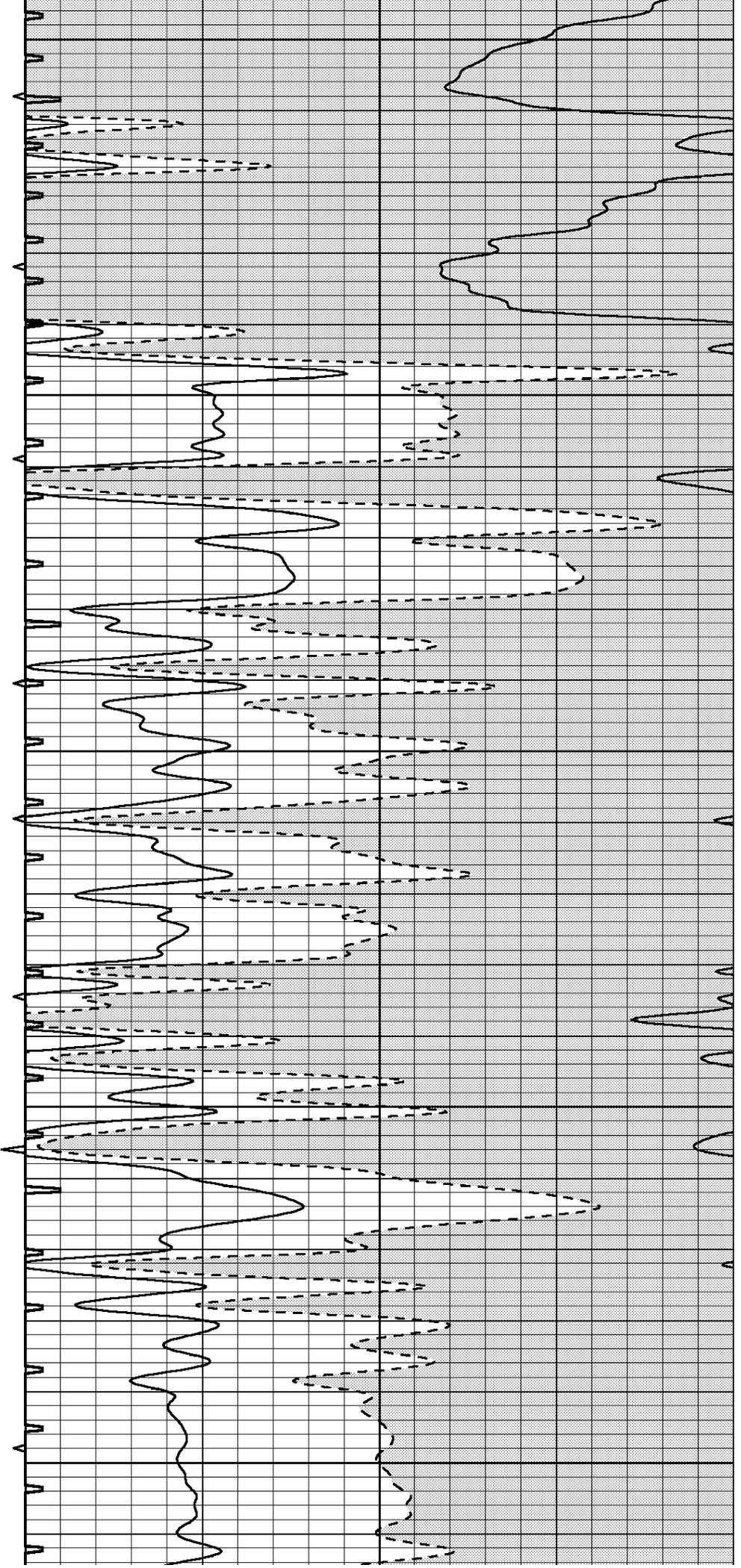
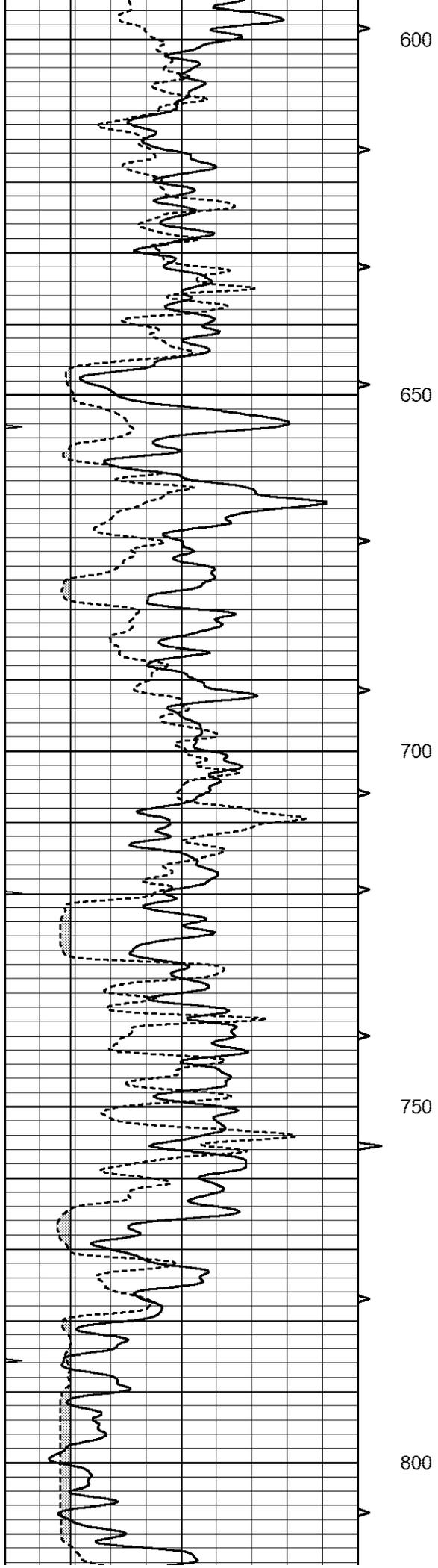
MAIN SECTION

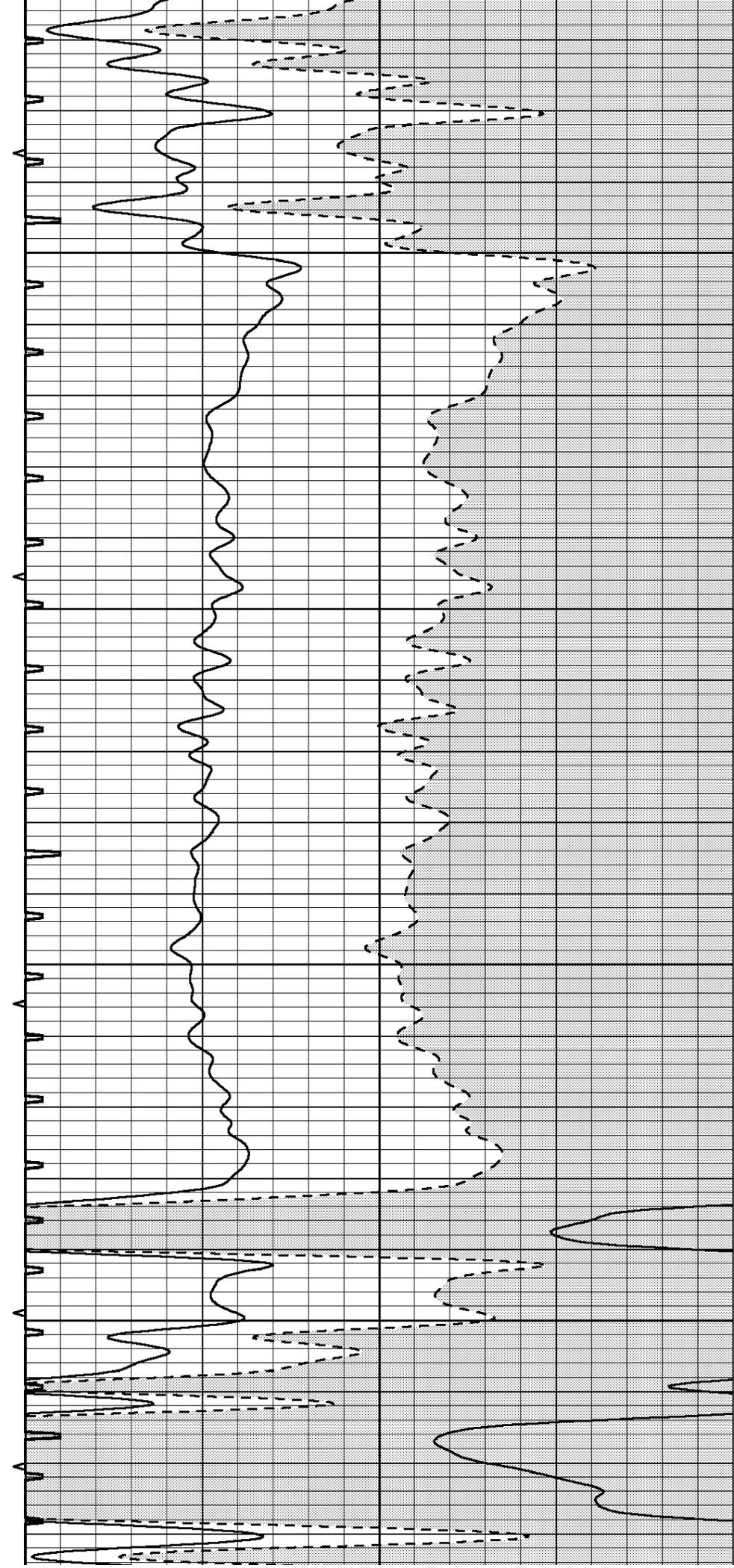
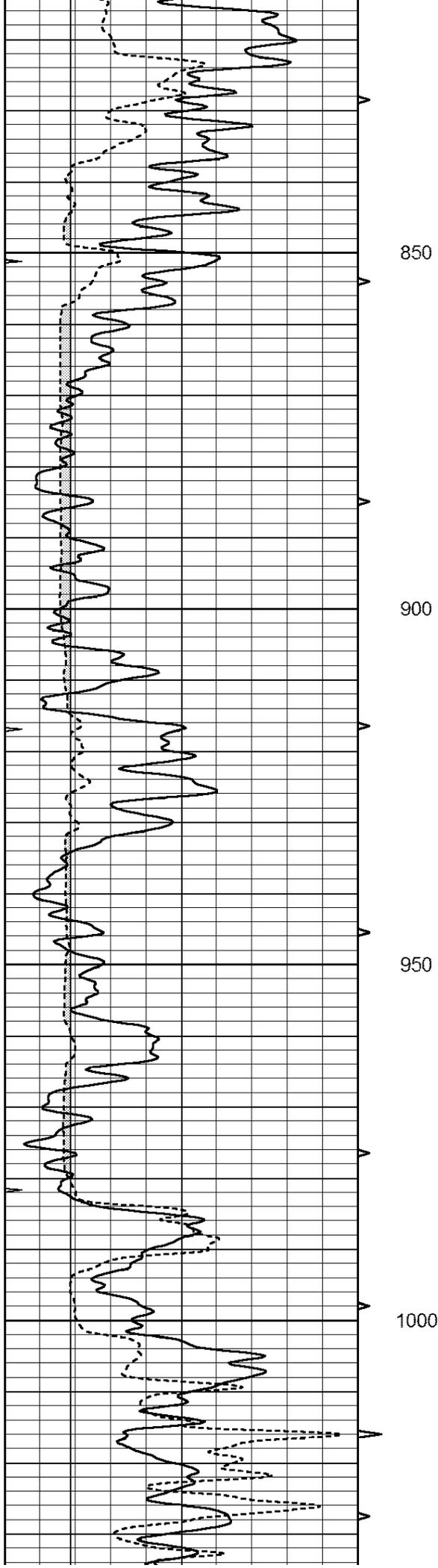
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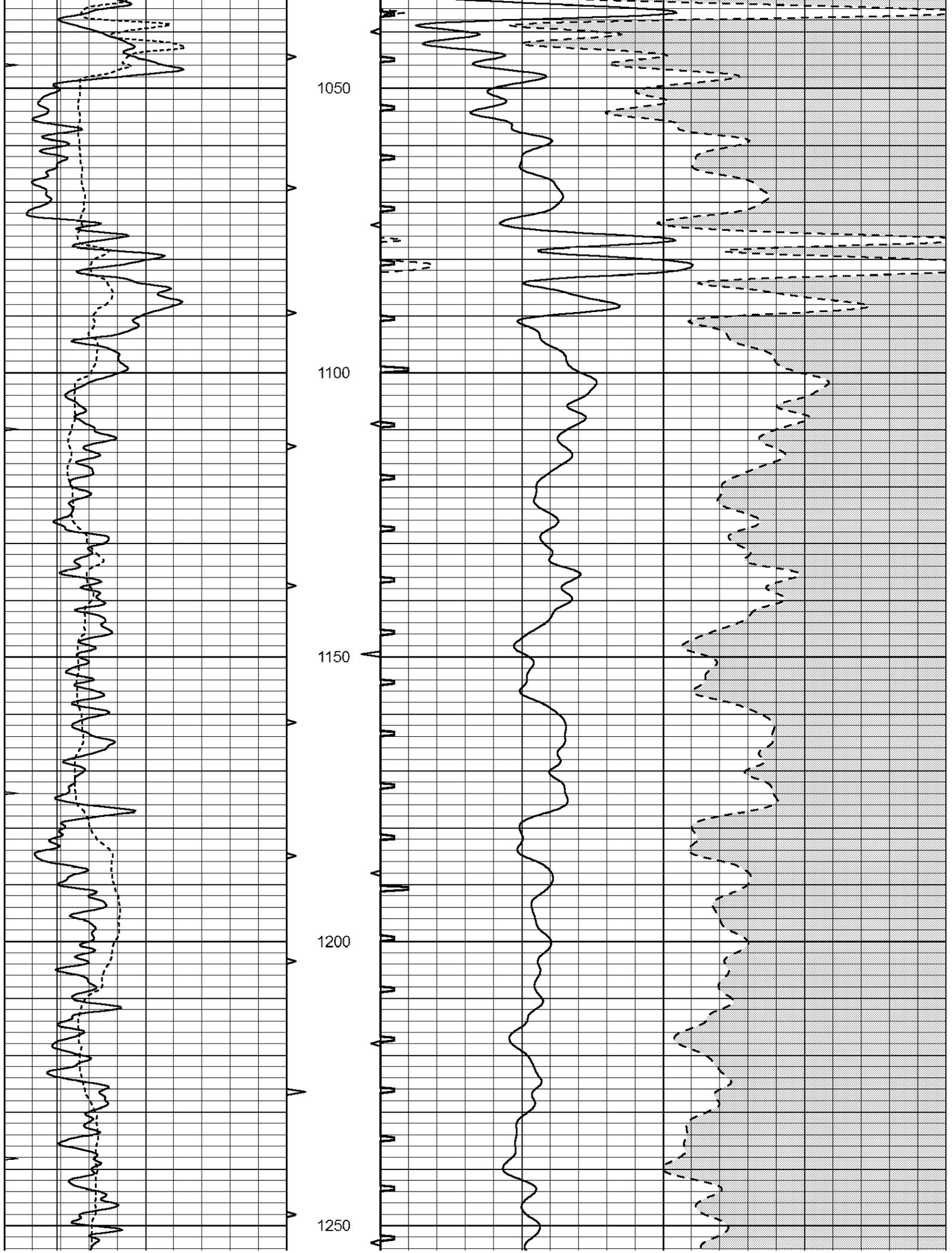
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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

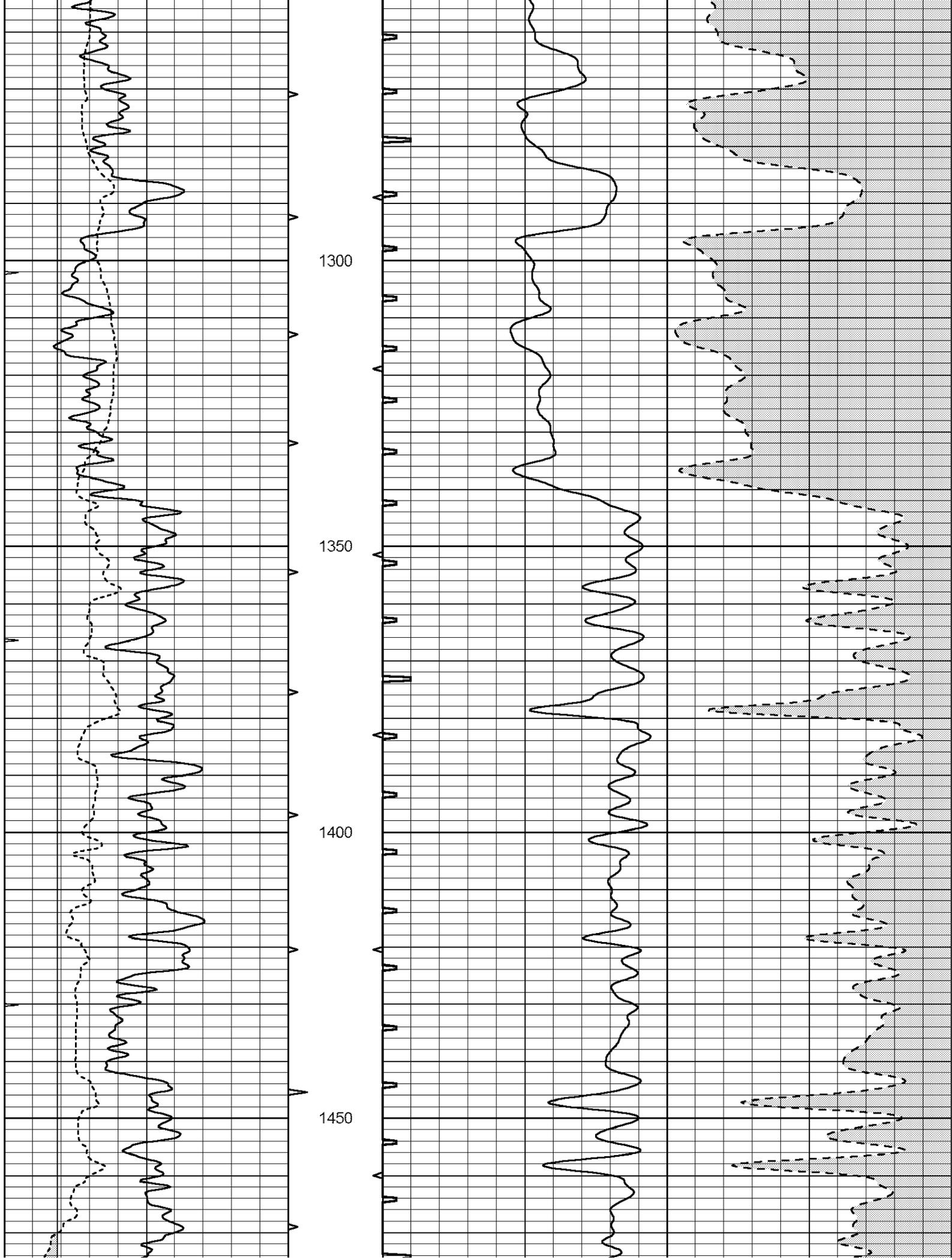


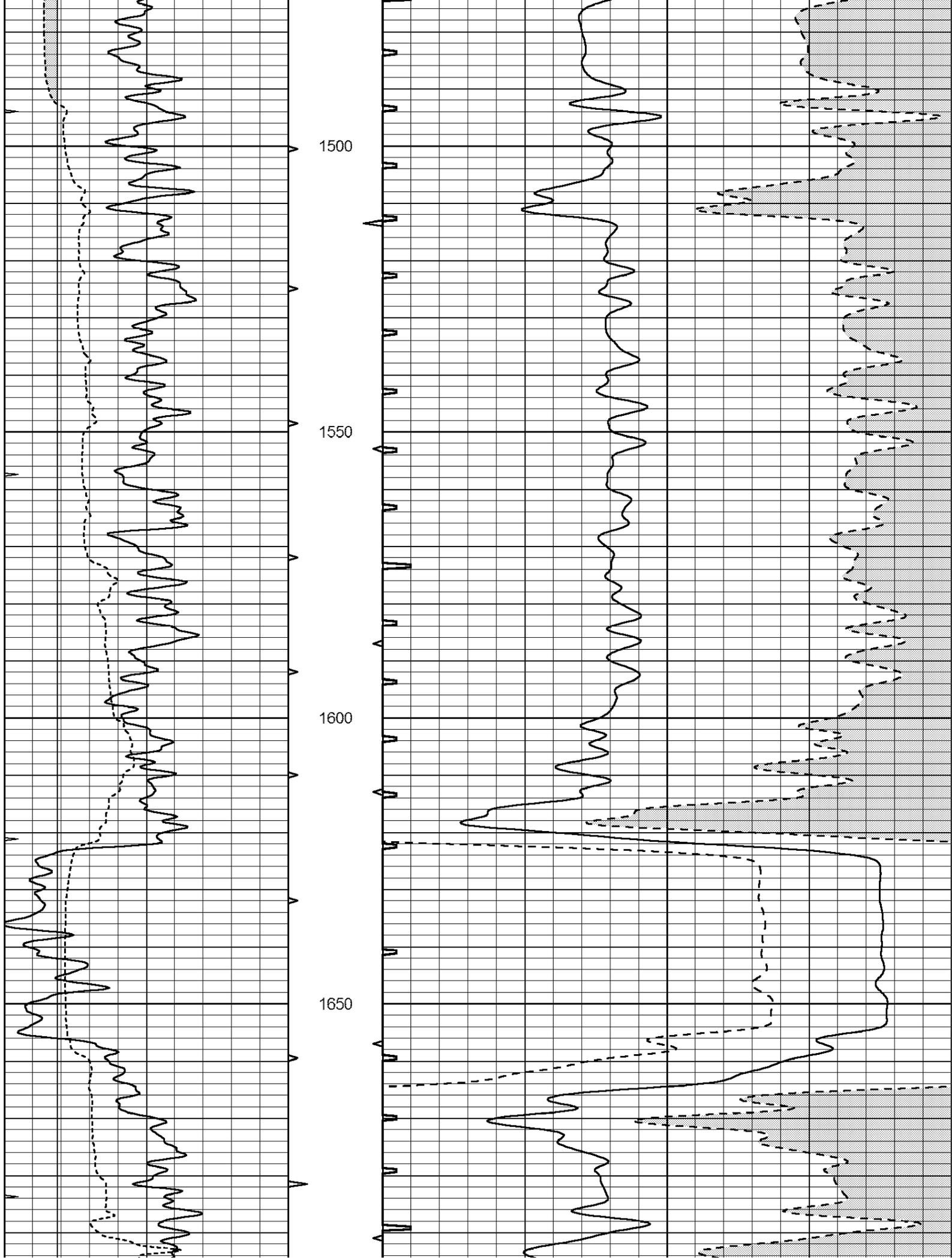


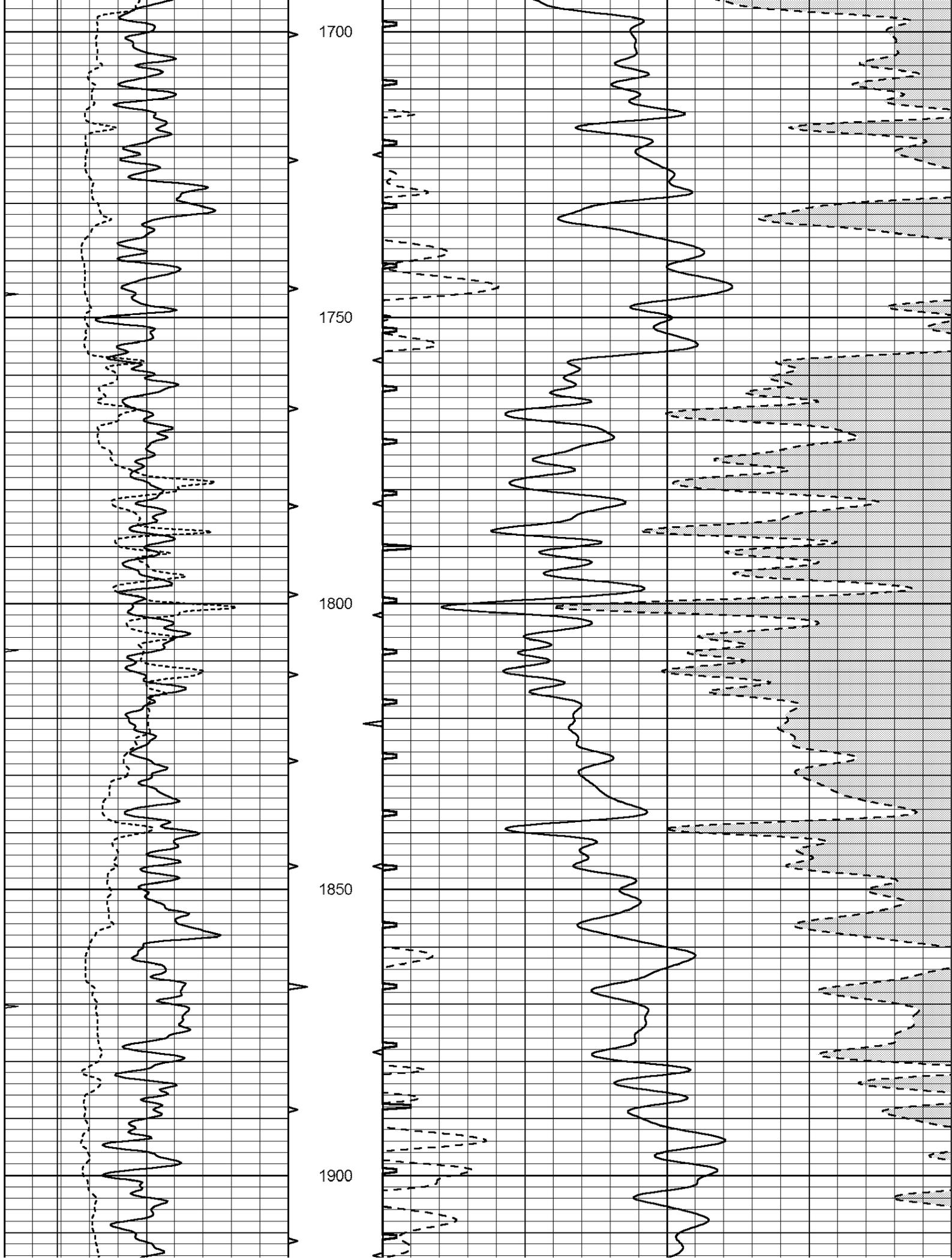


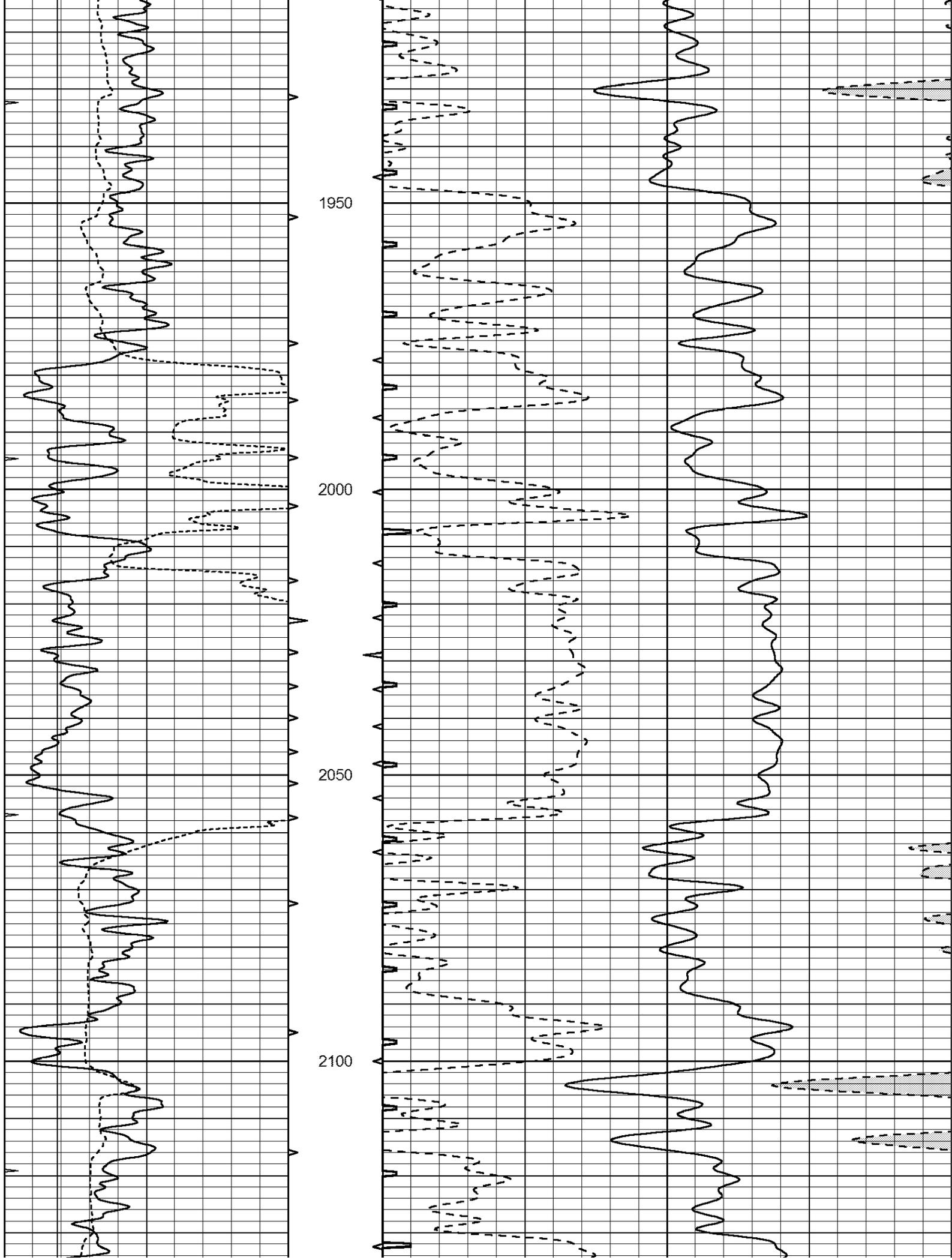


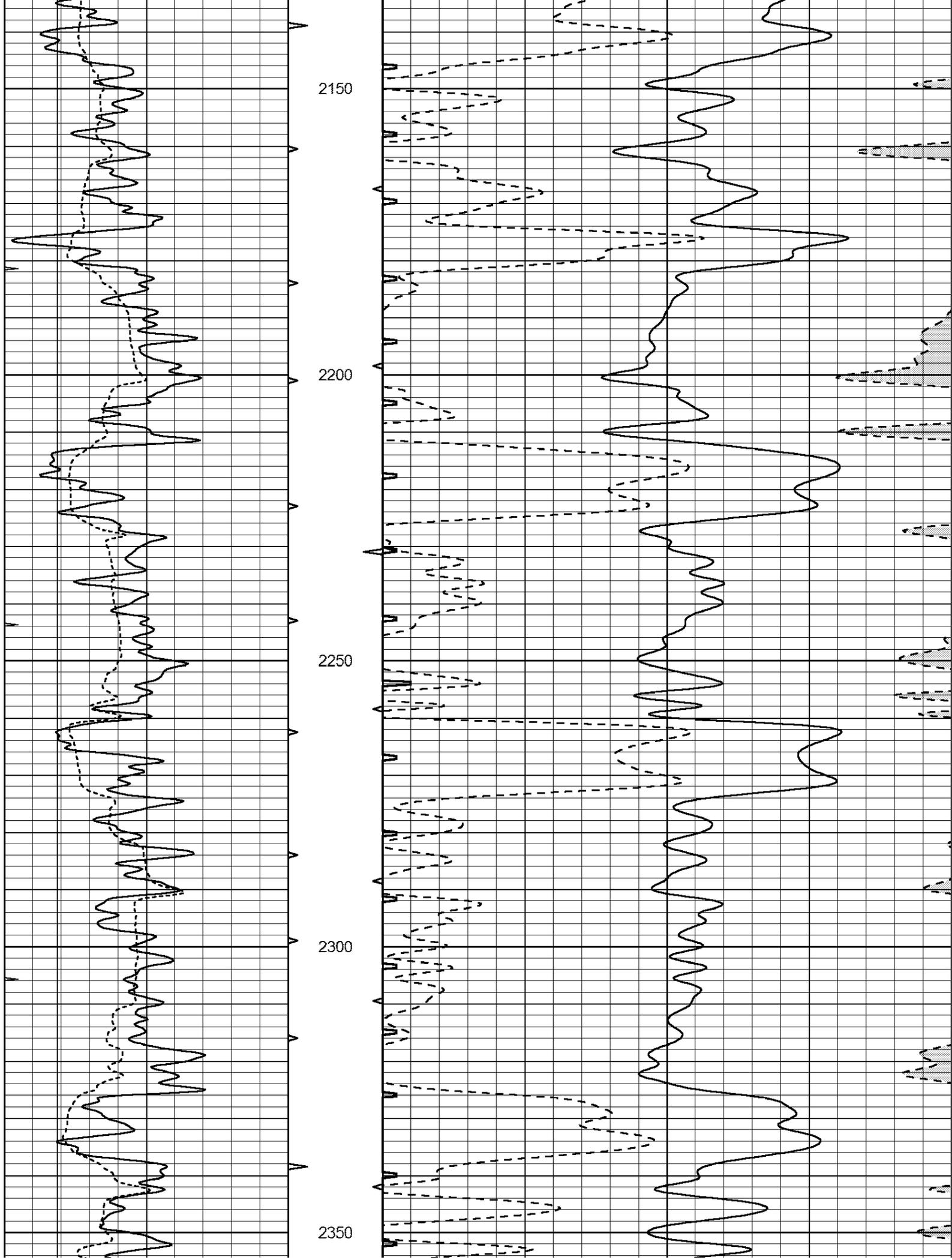


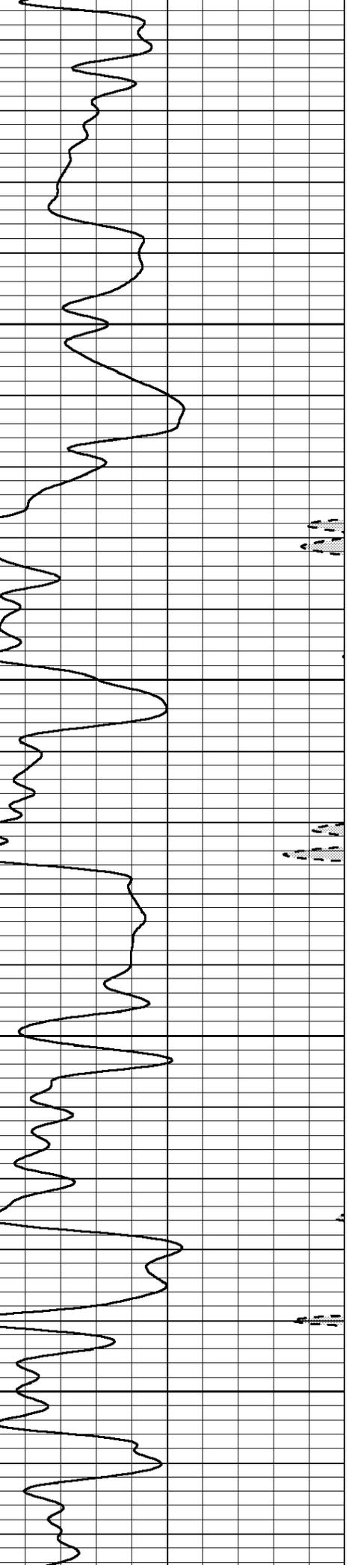
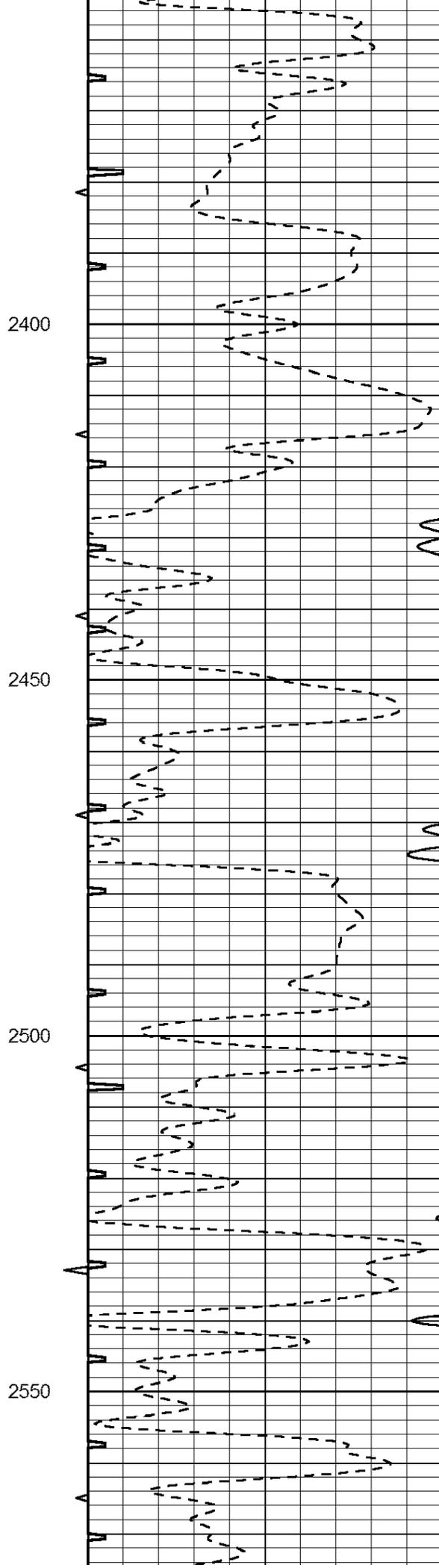
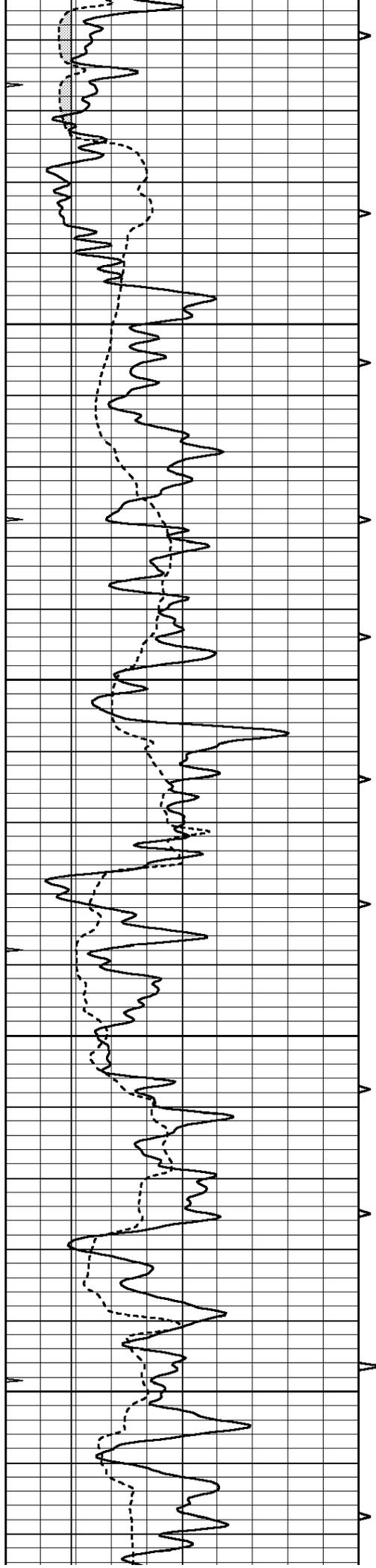


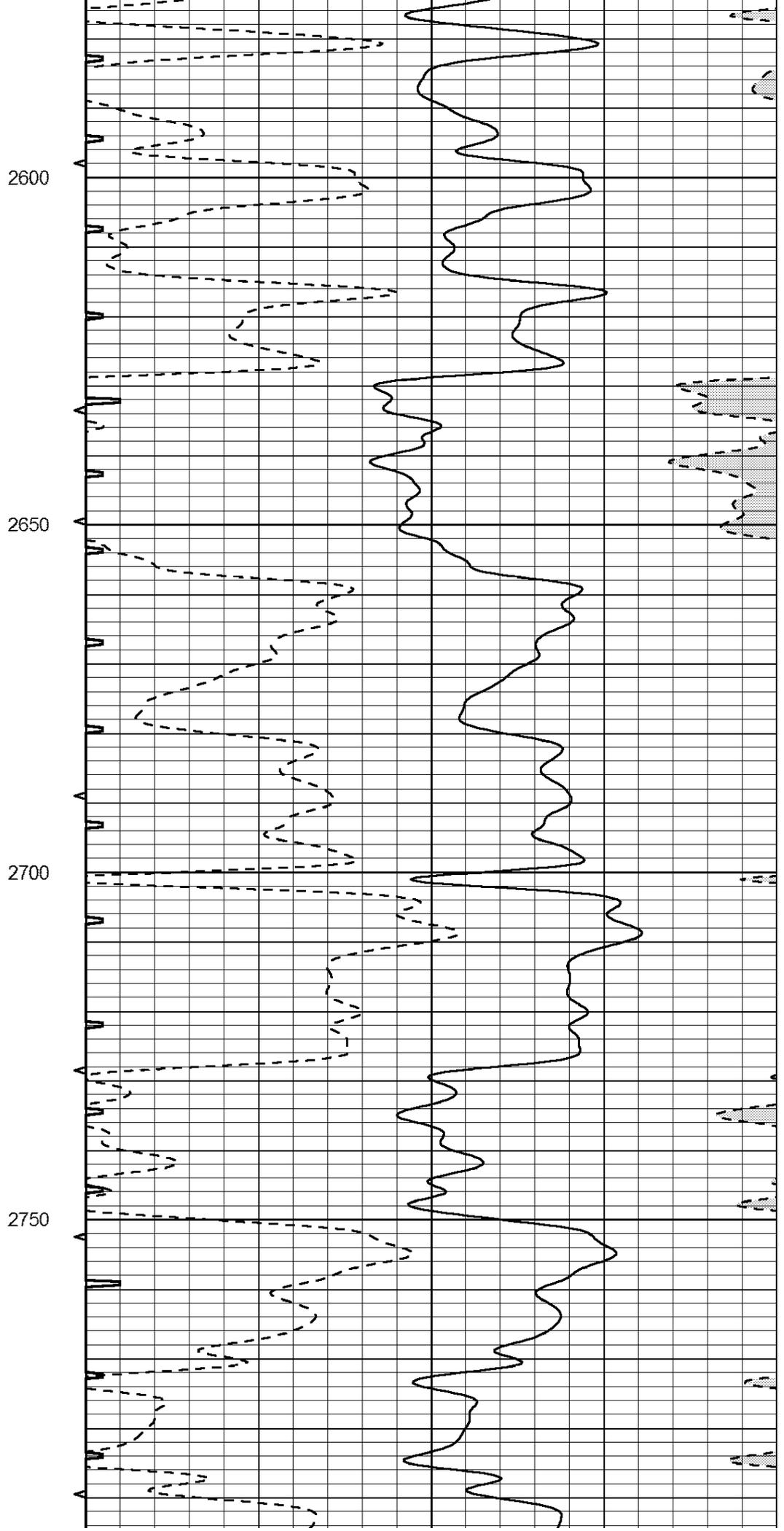
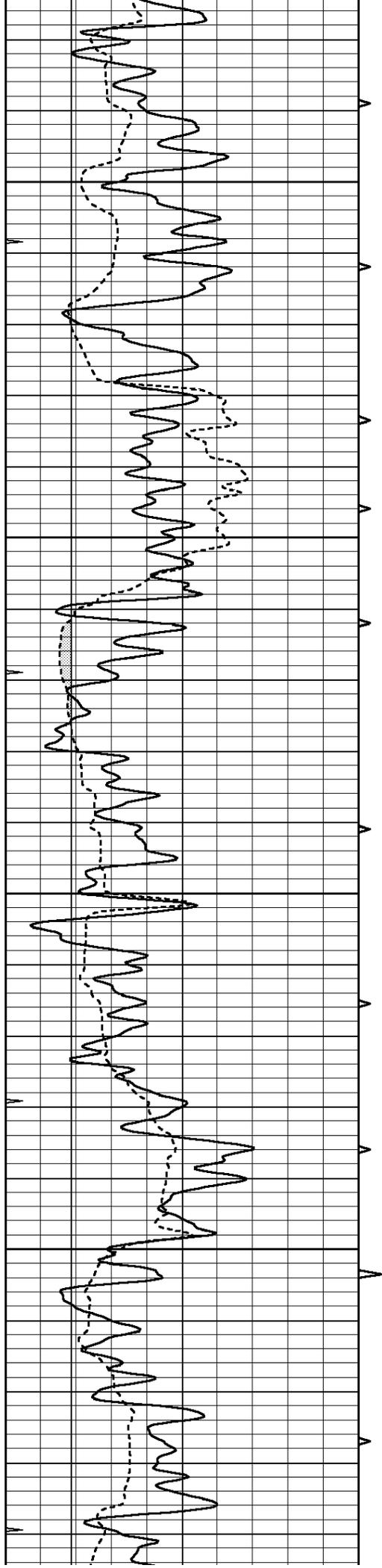


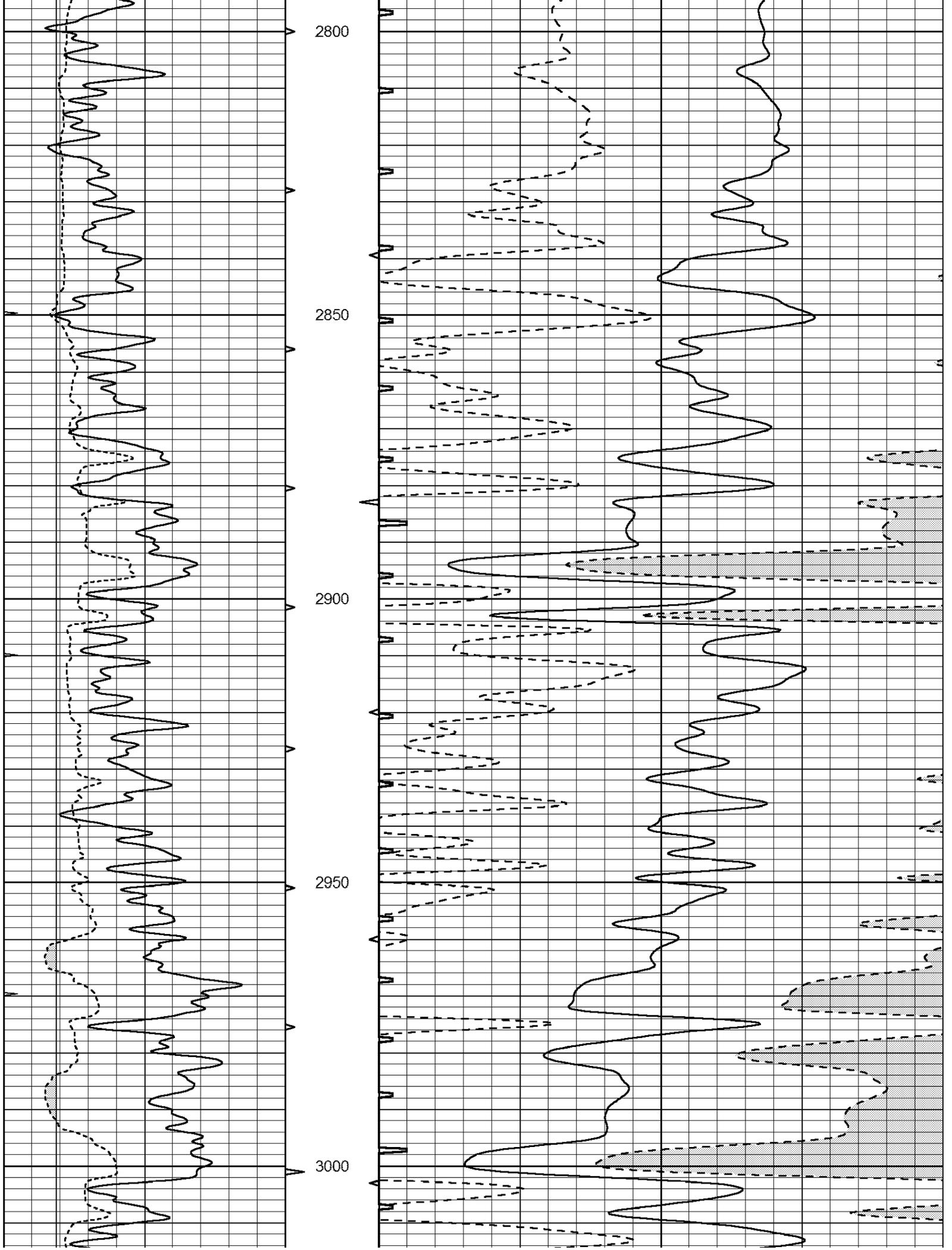


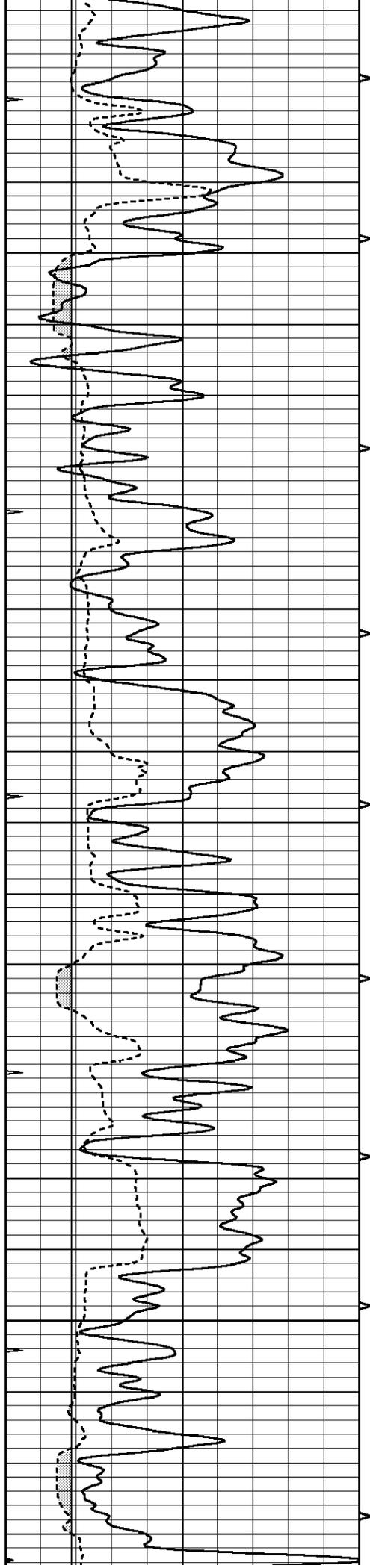










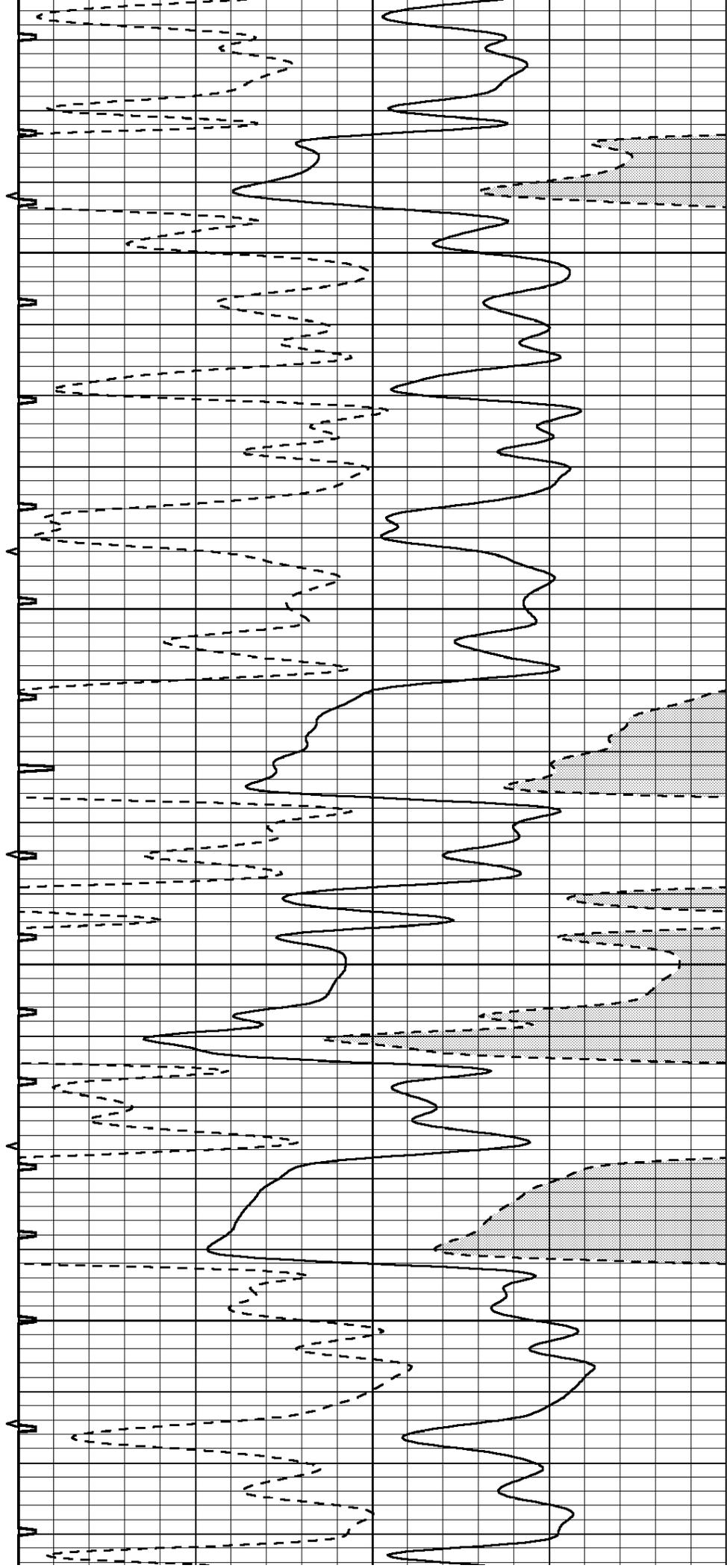


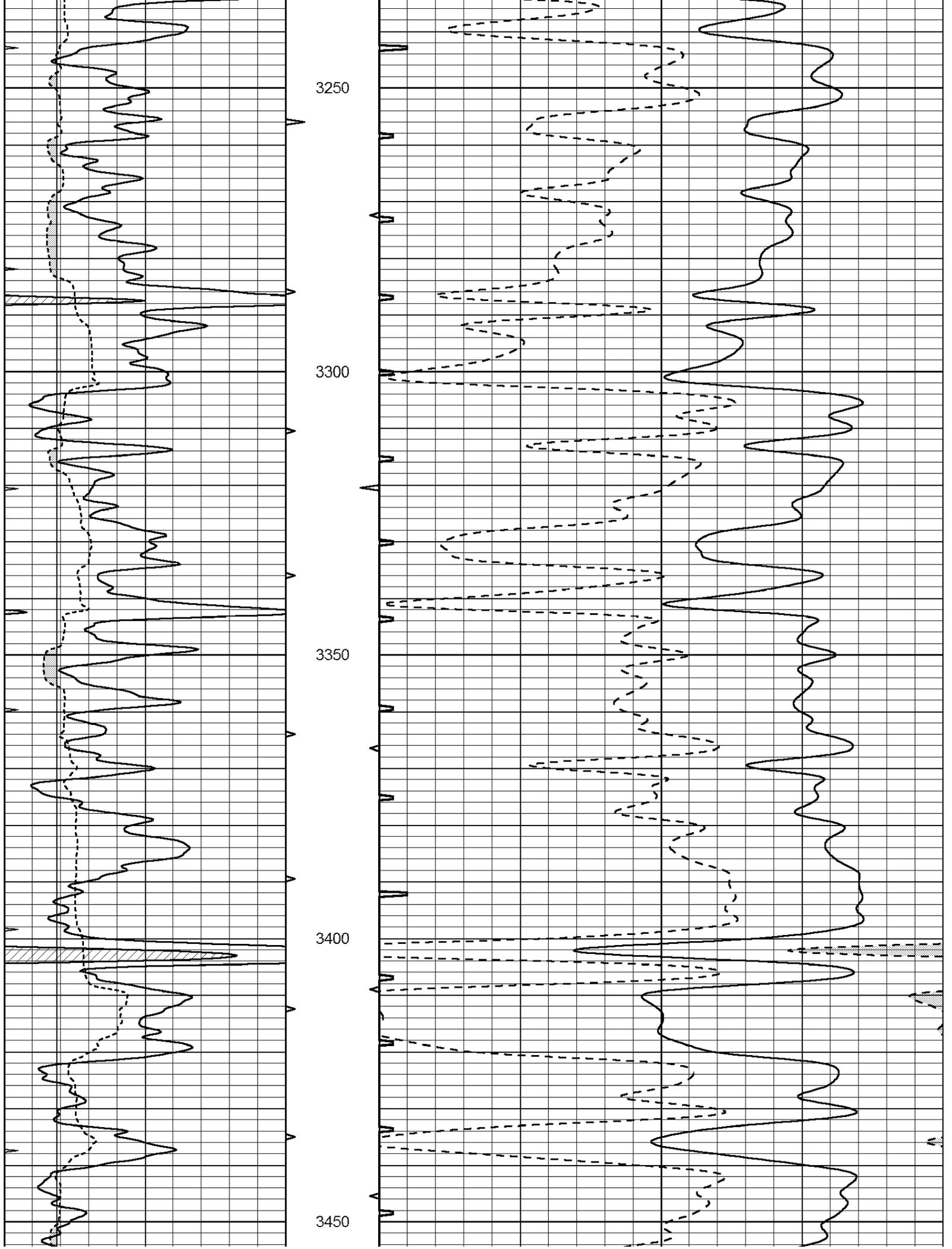
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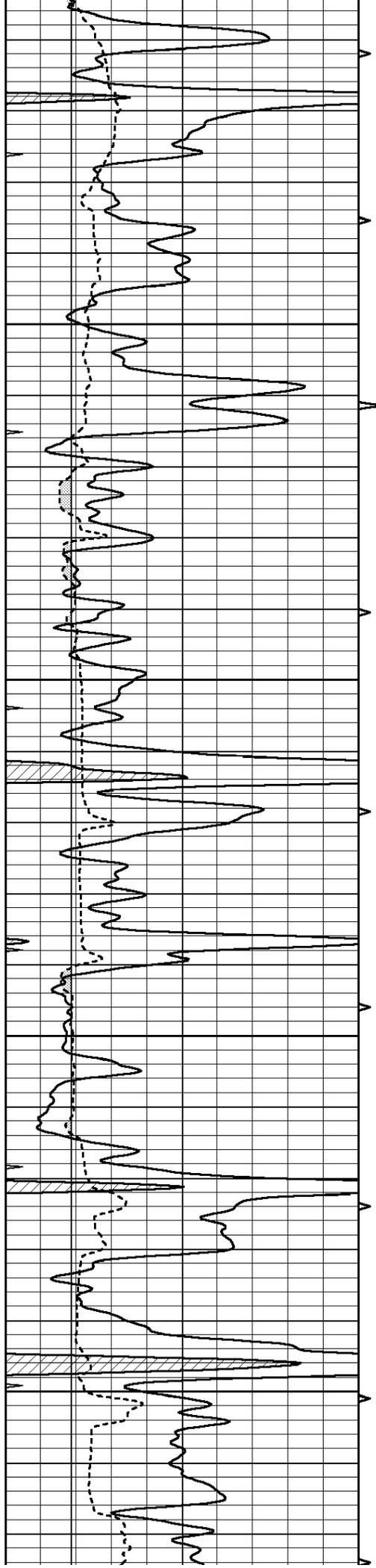
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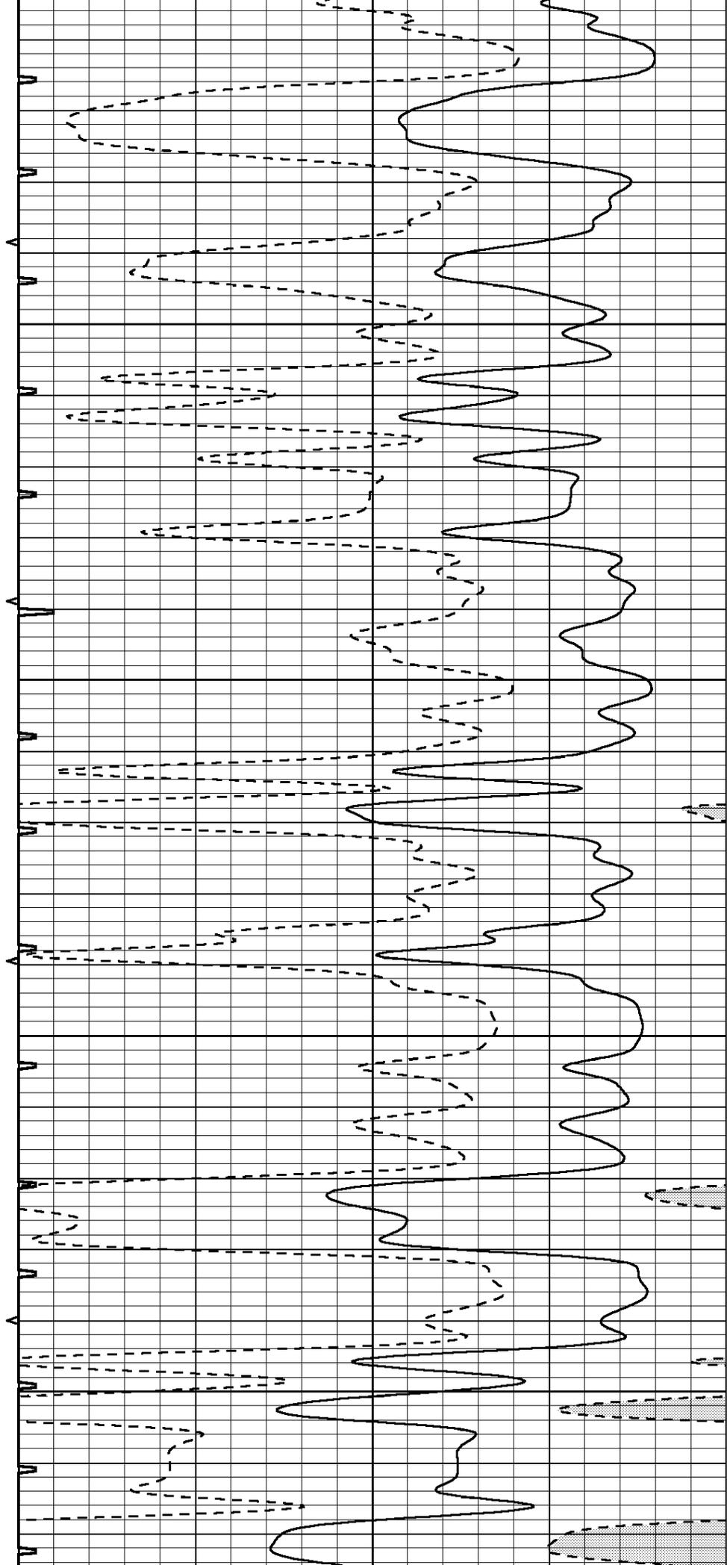


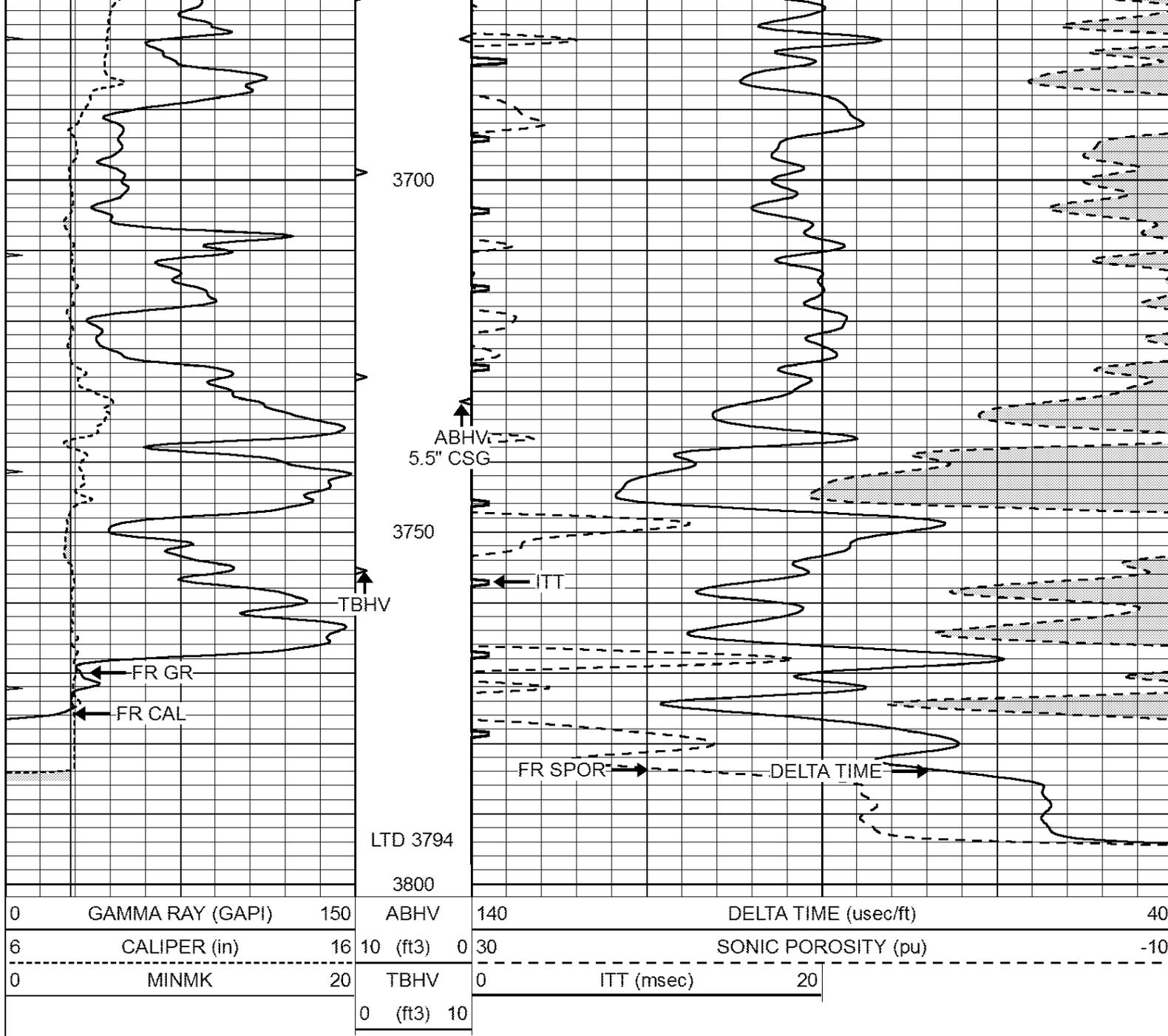
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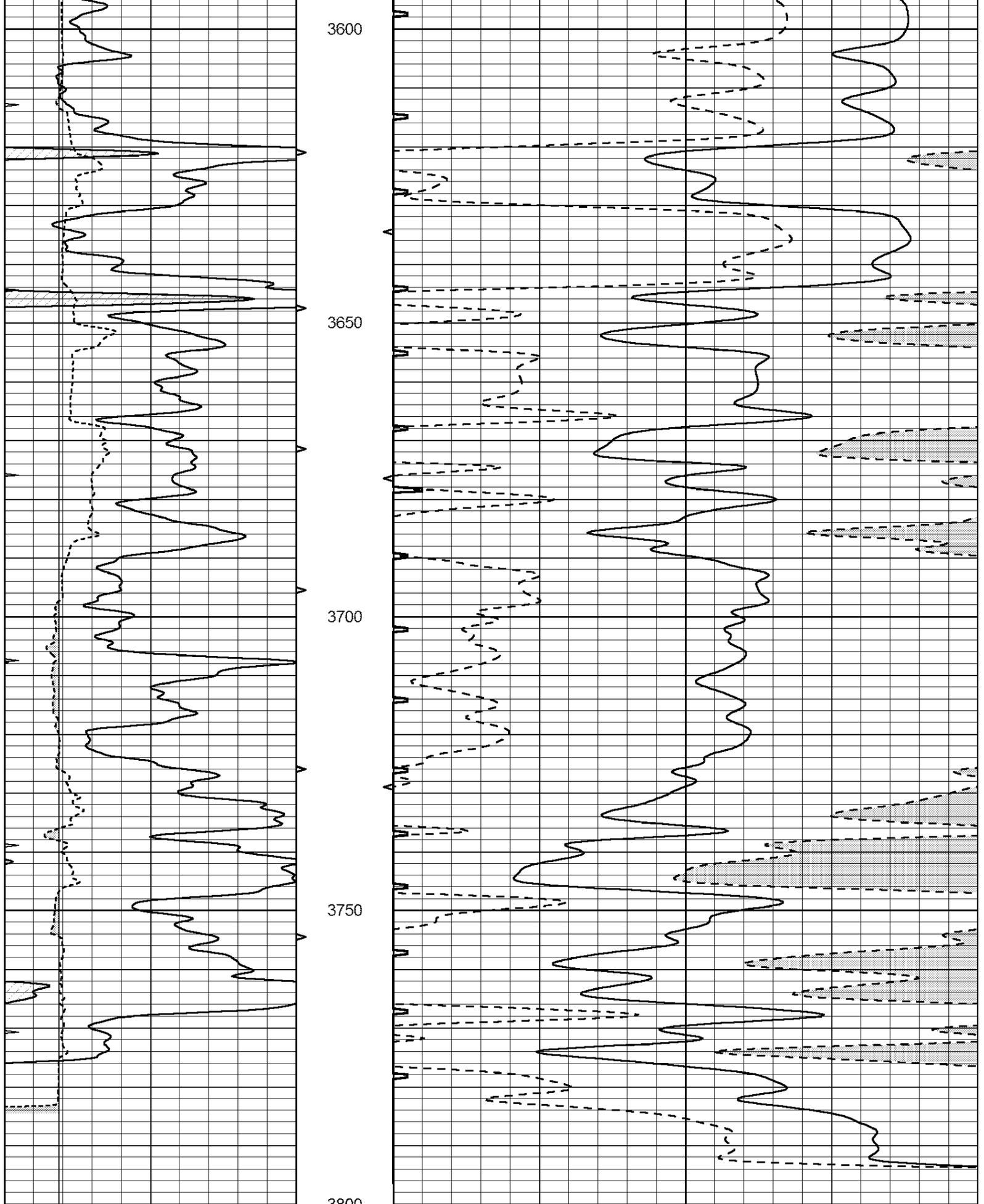


REPEAT SECTION

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0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			





0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40	
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20	

