



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**SONIC  
LOG**

Company MULL DRILLING COMPANY, INC.  
Well #1-15 SARGENT  
Field WILDCAT  
County NESS  
State KANSAS

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Field WILDCAT  
County NESS  
State KANSAS

Location: API # : 15-135-25524-0000  
2235' FSL & 335' FWL  
SEC 15 TWP 17S RGE 23W  
Permanent Datum GROUND LEVEL Elevation 2439  
Log Measured From KELLY BUSHING 5' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
CDL/CNL/PE  
DIL/MEL  
Elevation  
K.B. 2444  
D.F. 2442  
G.L. 2439

Date	1/17/13
Run Number	TWO
Depth Driller	4550
Depth Logger	4552
Bottom Logged Interval	4540
Top Log Interval	200
Casing Driller	8 5/8"@223'
Casing Logger	223
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.0/50
pH / Fluid Loss	10.5/7.2
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.750@80F
Rmf @ Meas. Temp	.563@80F
Rmc @ Meas. Temp	.900@80F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.496@121F
Time Circulation Stopped	4.5 HOURS
Time Logger on Bottom	4:45 A.M.
Maximum Recorded Temperature	121F
Equipment Number	4854
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	KEVIN KESSLER

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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**

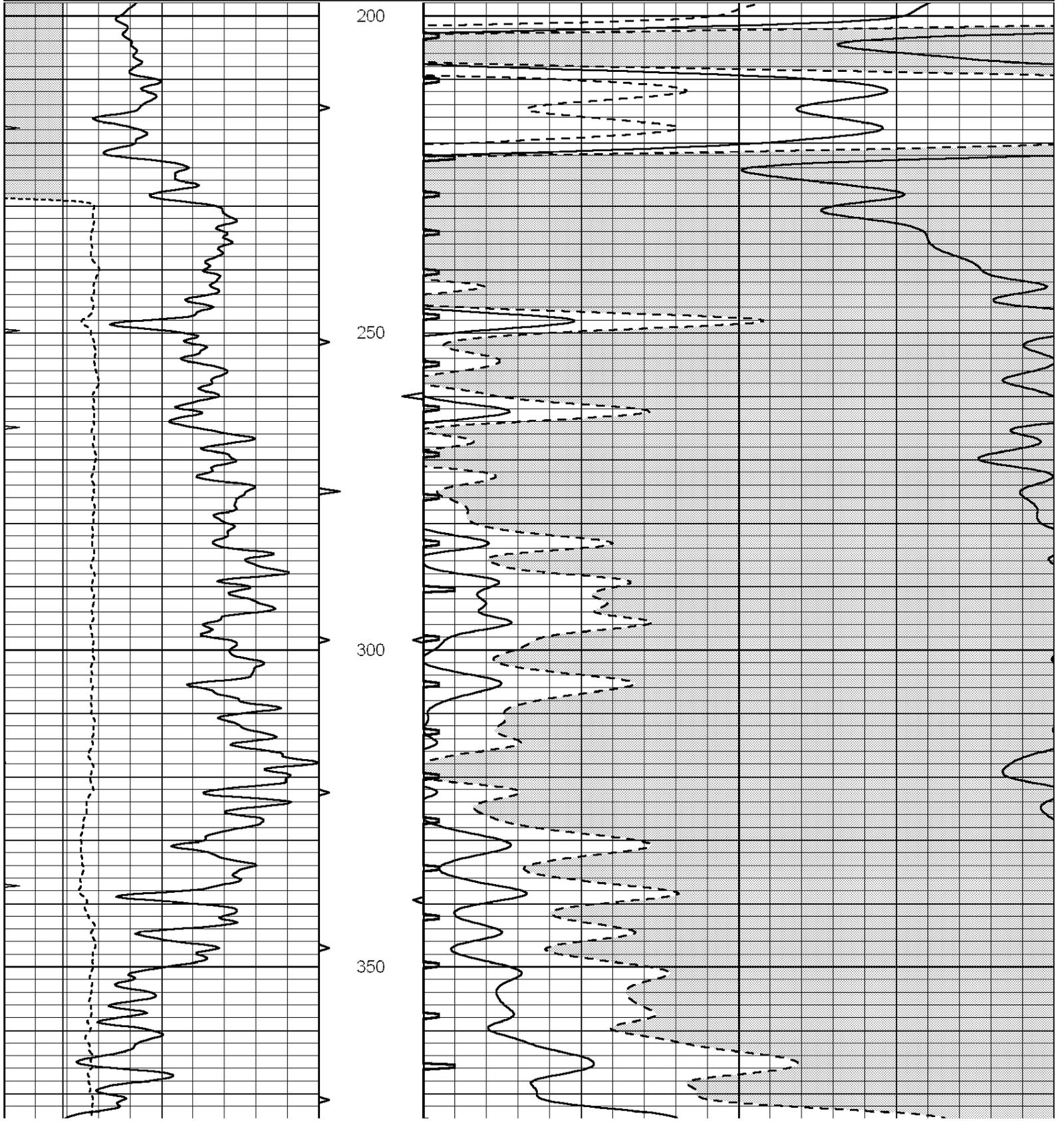
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
RANSOM, KS. (HWY 4 & 283) 5S. TO "RD. 210", 2E. TO CURVE, 1/2N., E. INTO

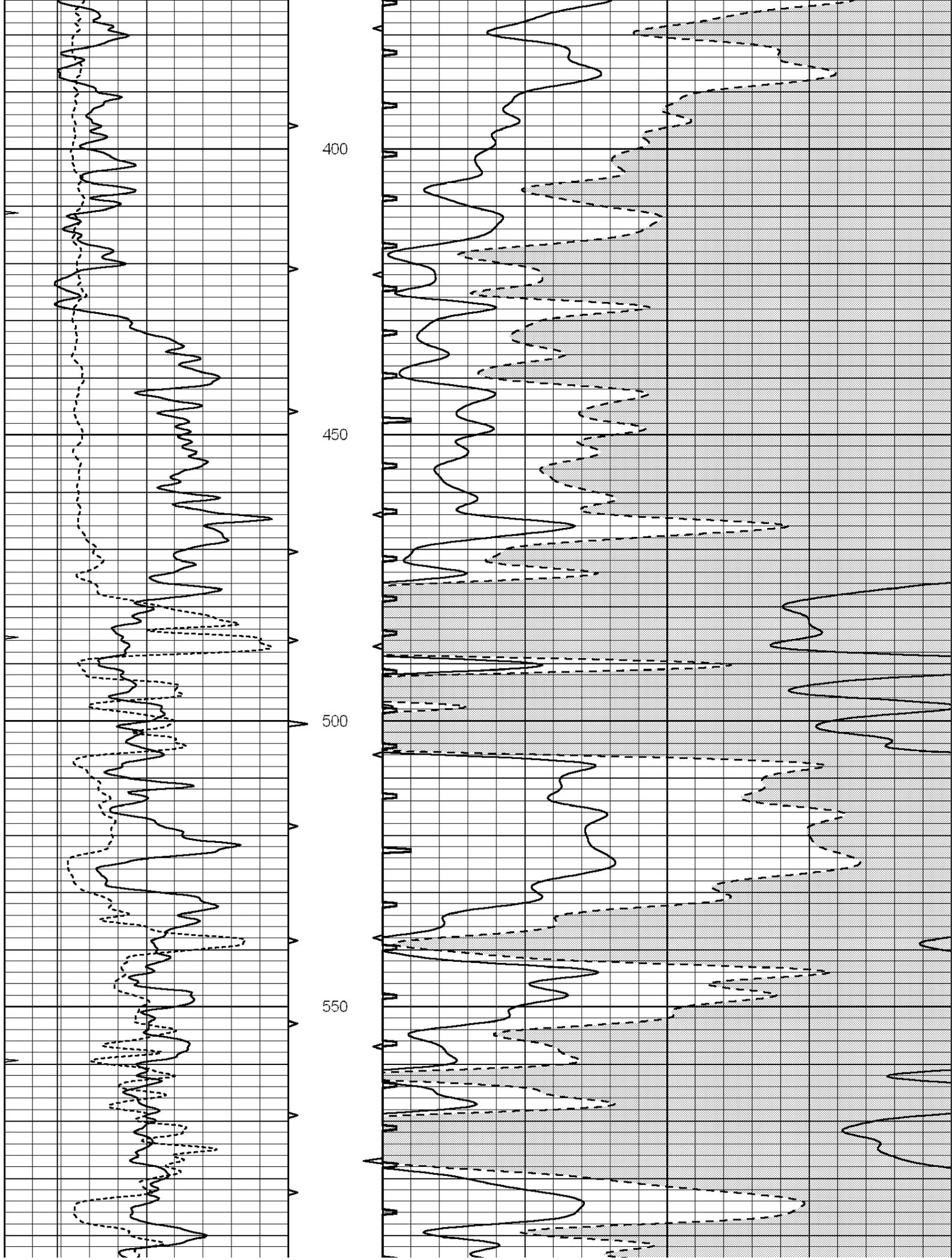


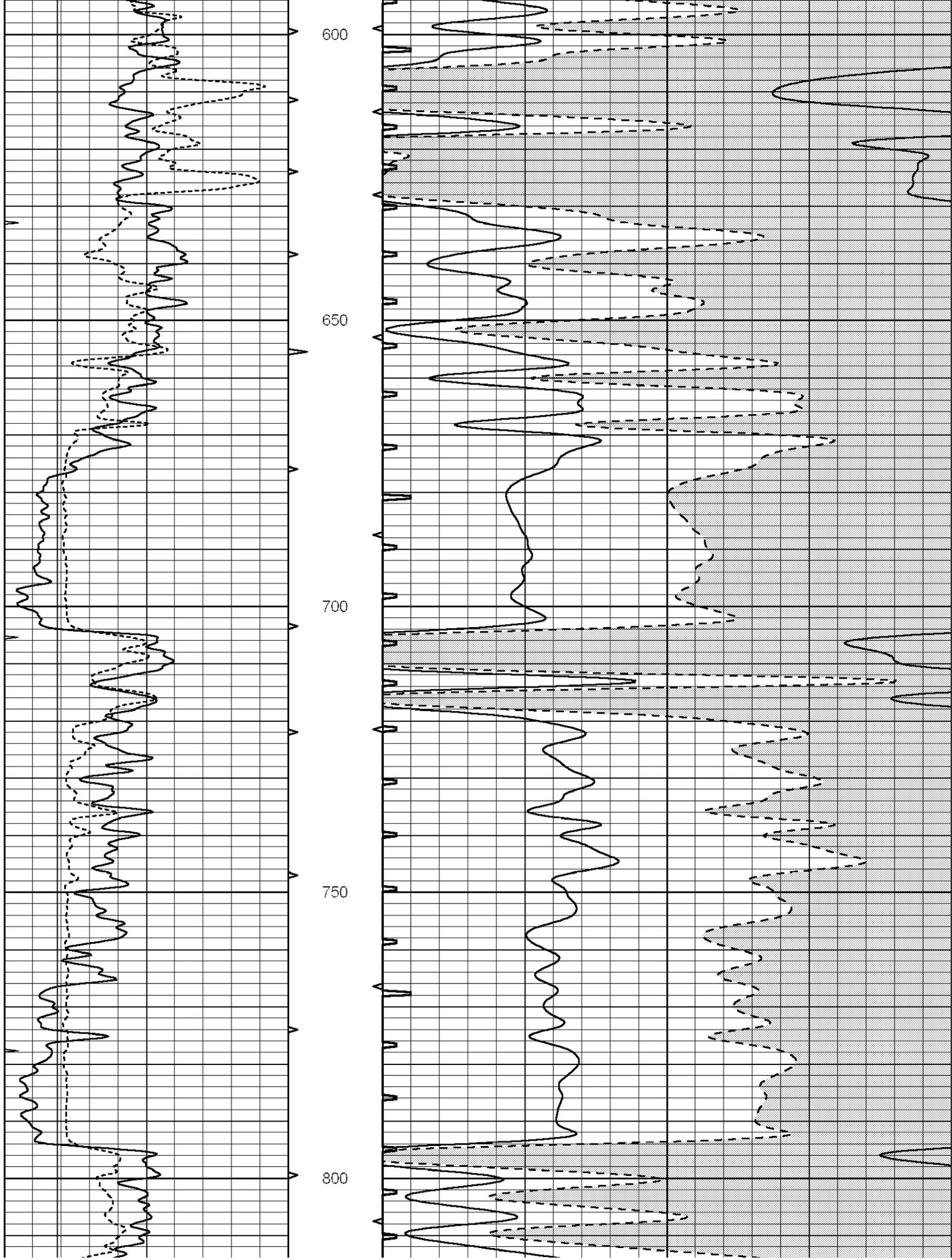
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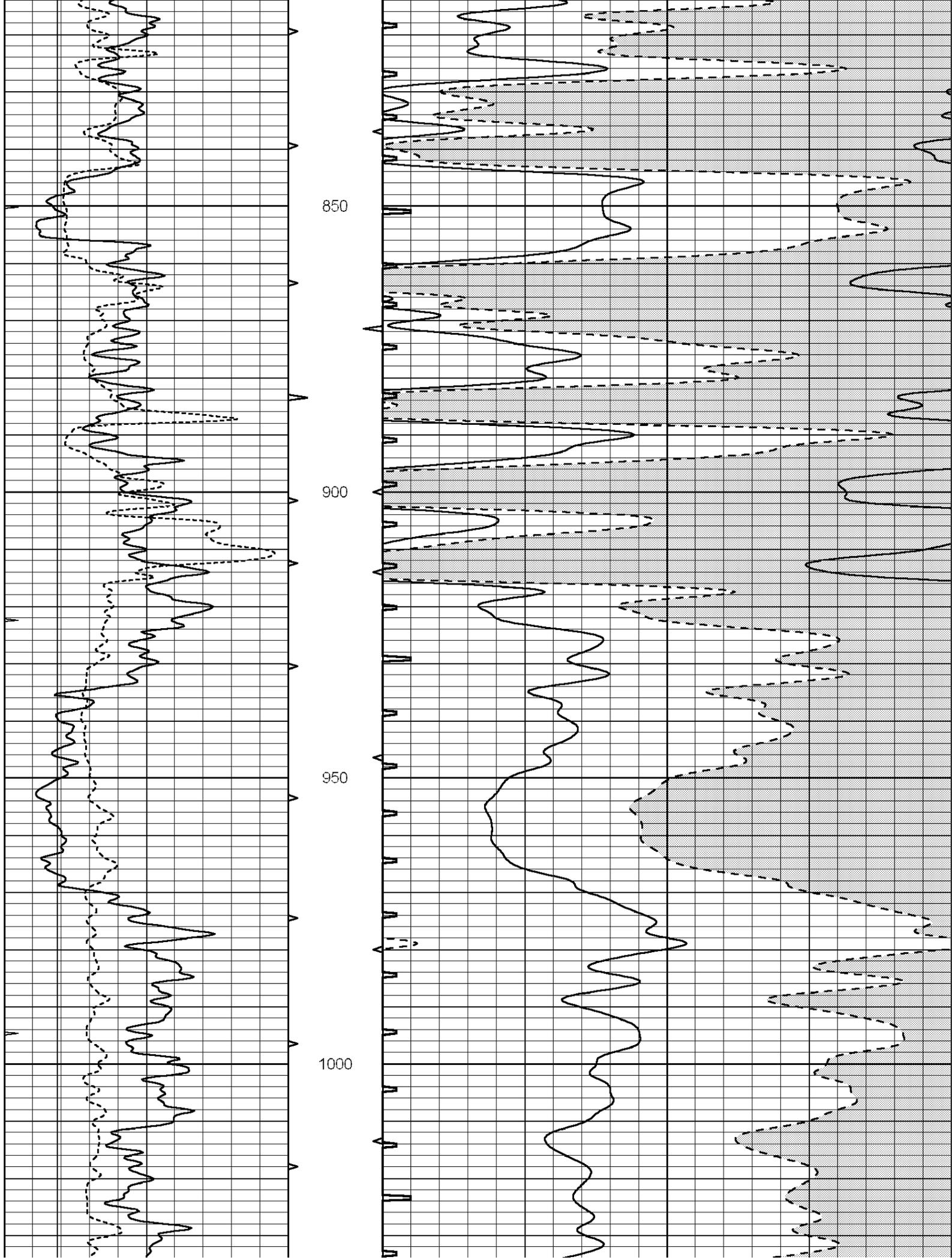
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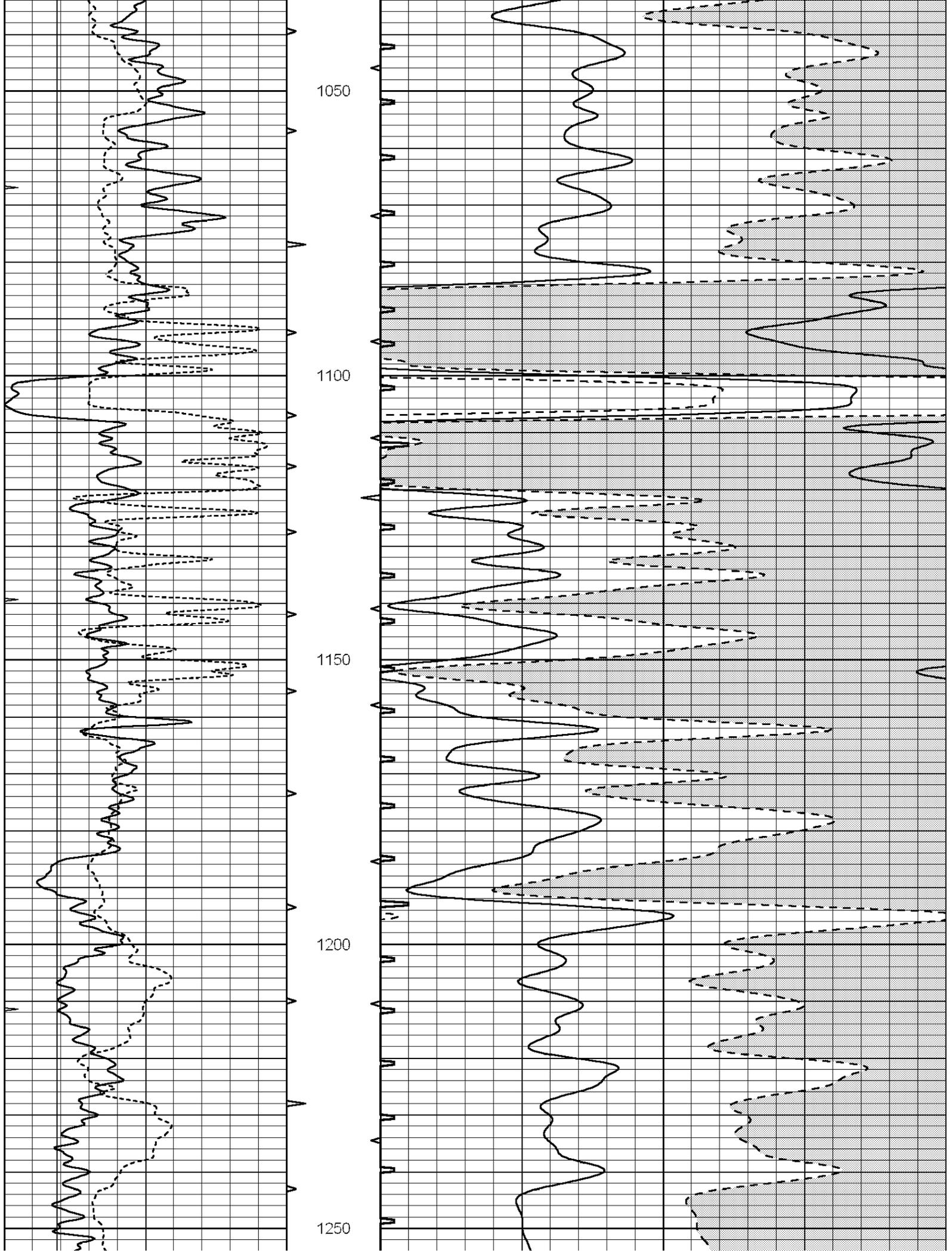
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0	MINMK	20	TBHV	0	ITT (msec)	20	
			0 (ft3)	10			

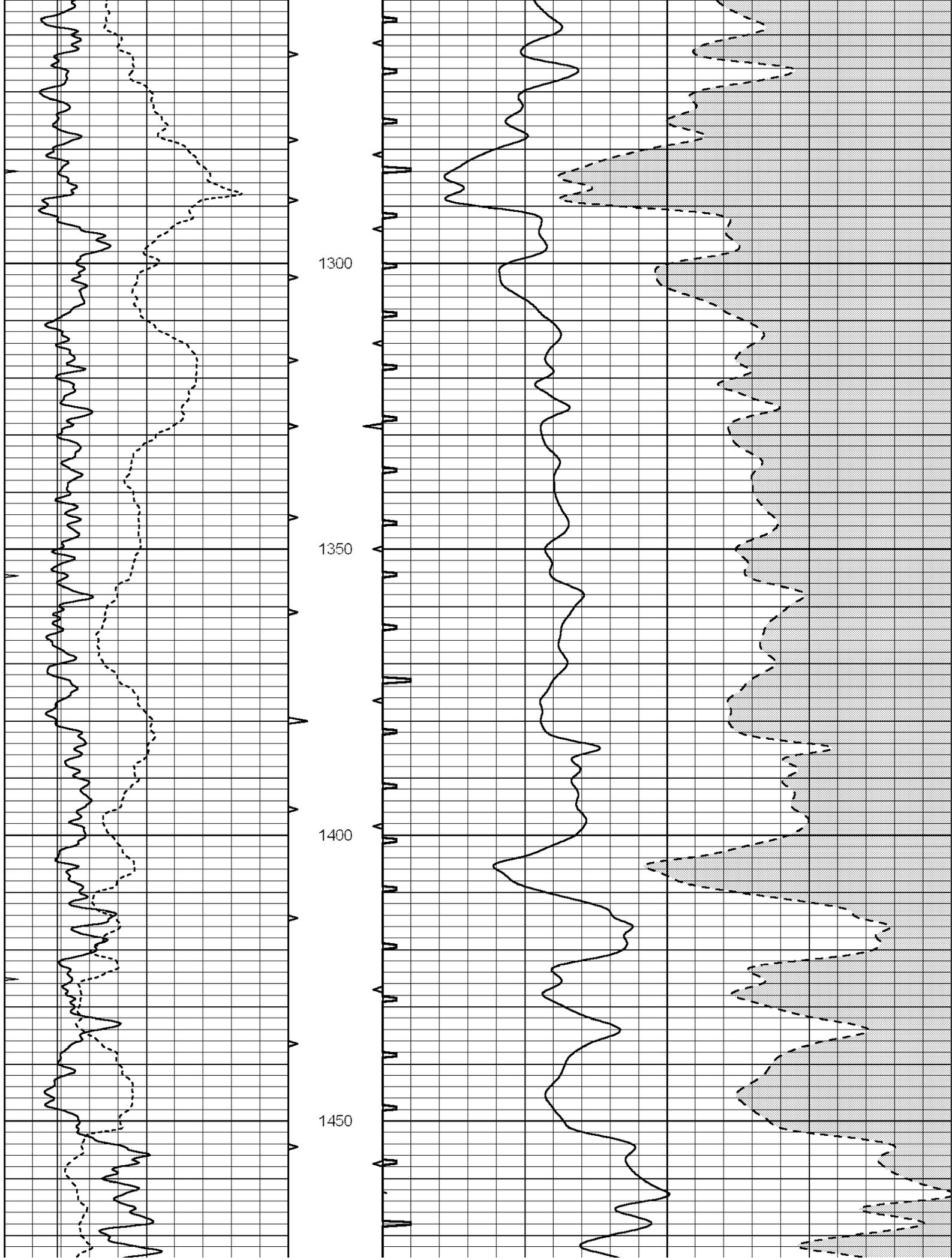


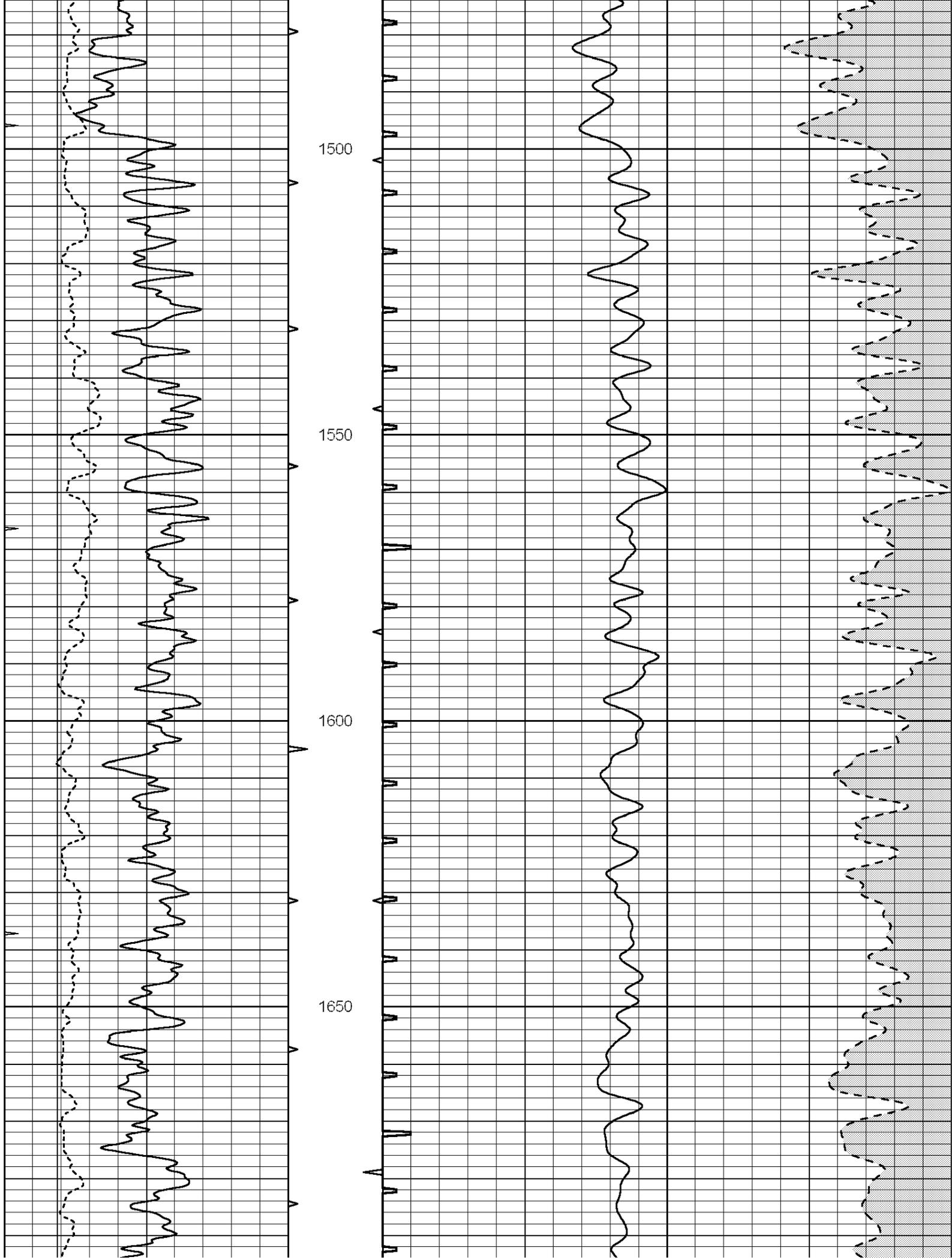


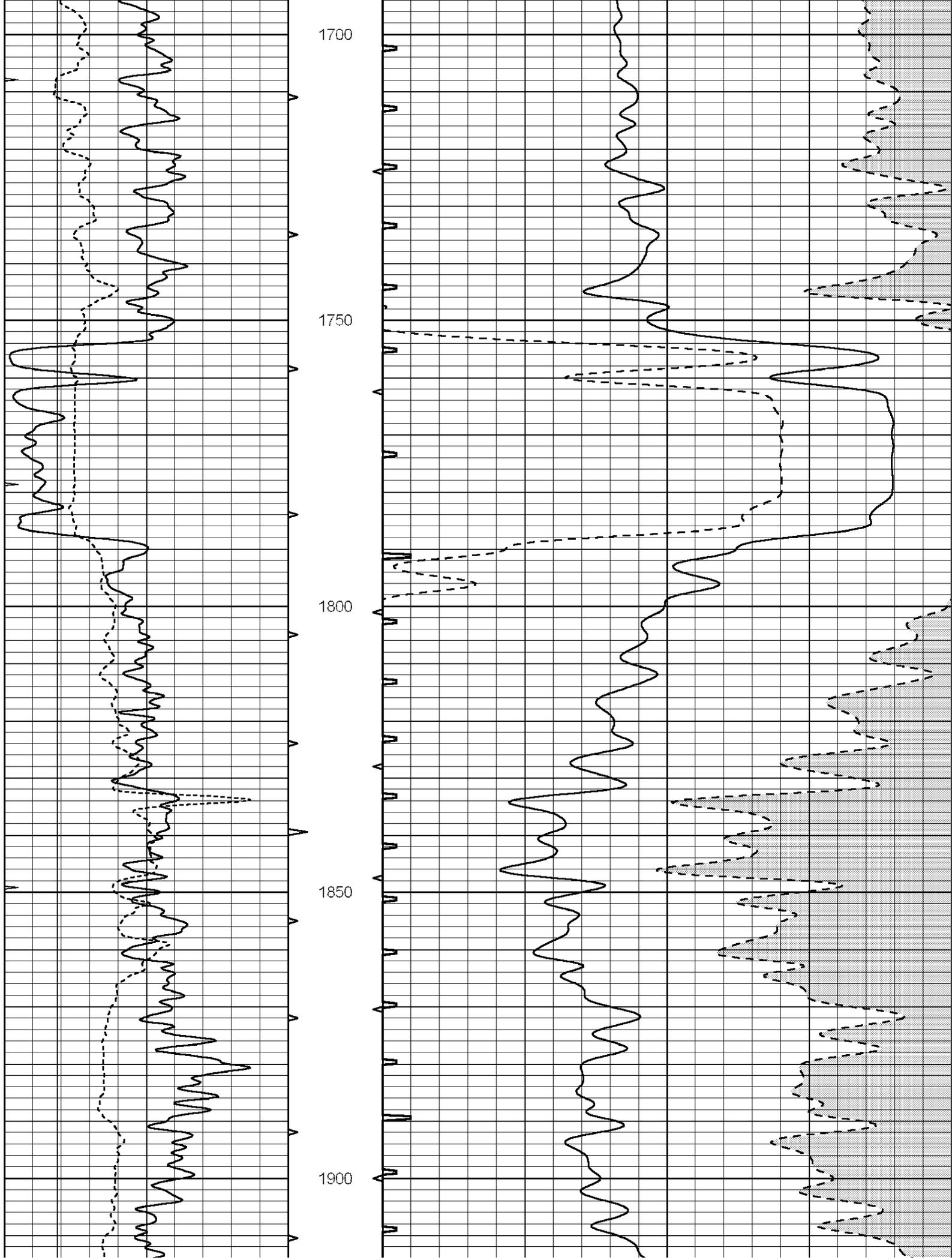


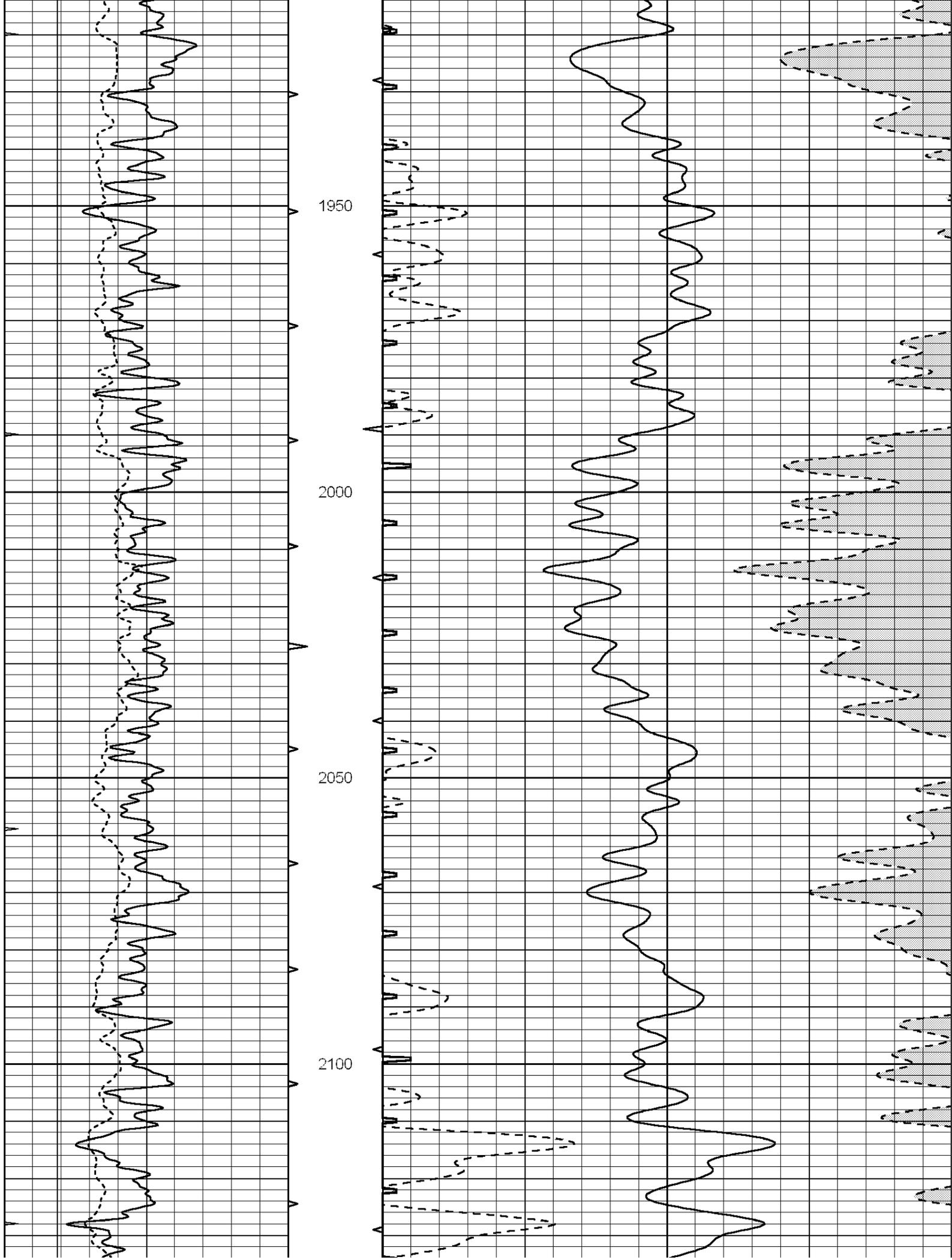


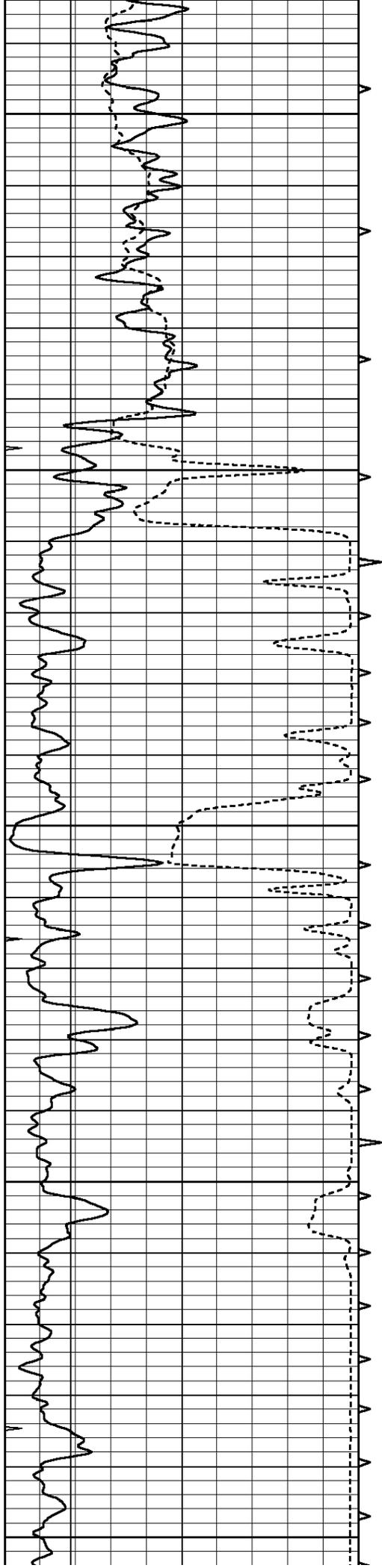












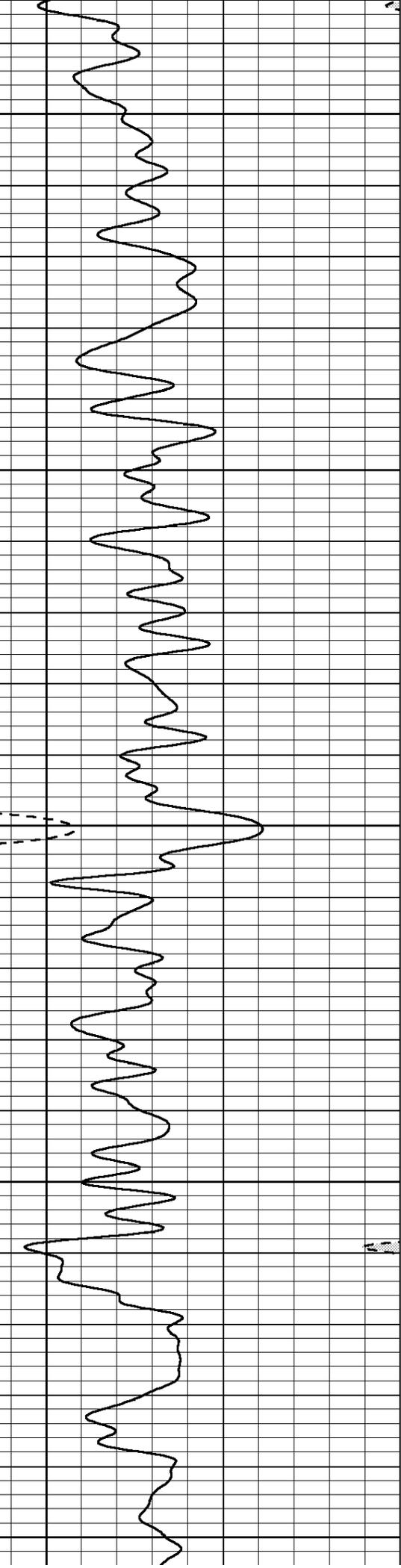
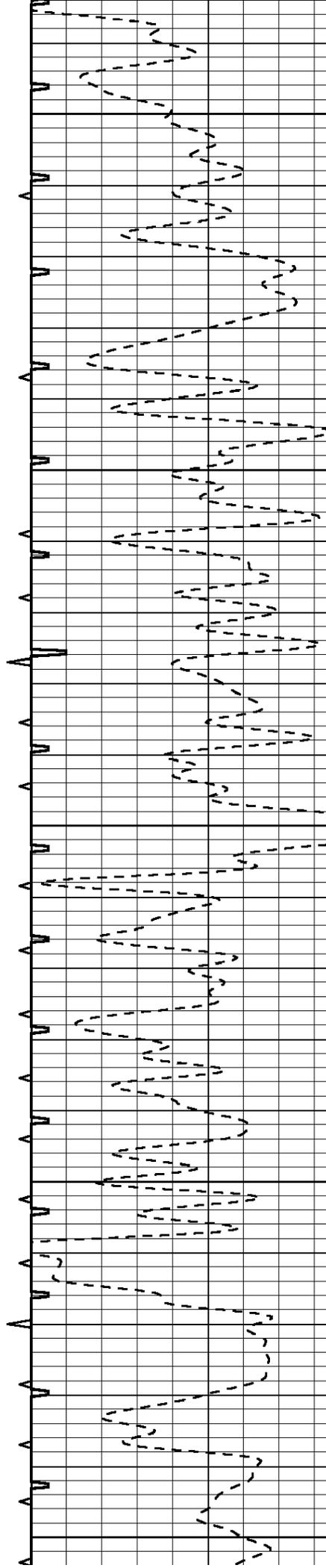
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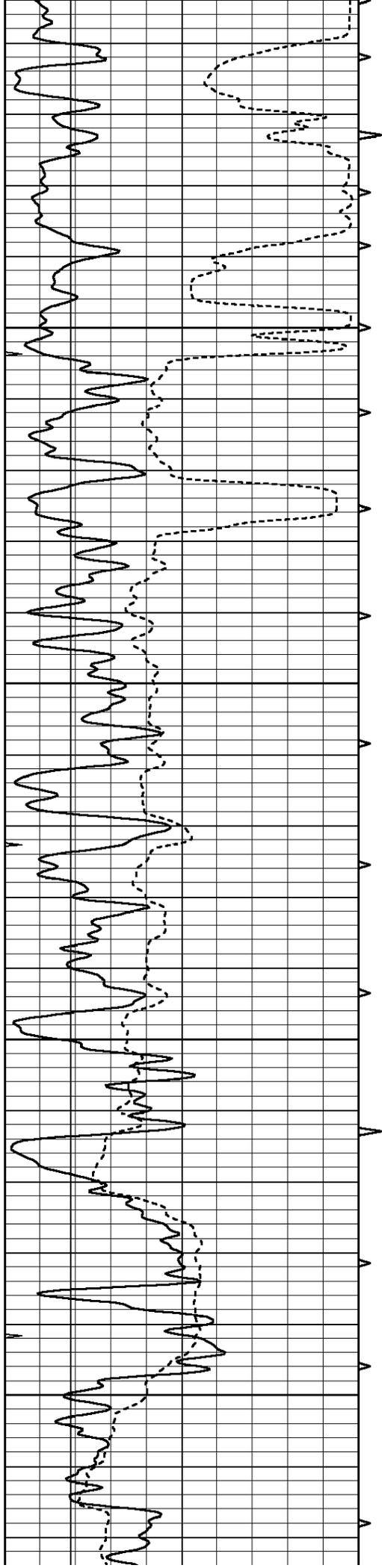
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2350



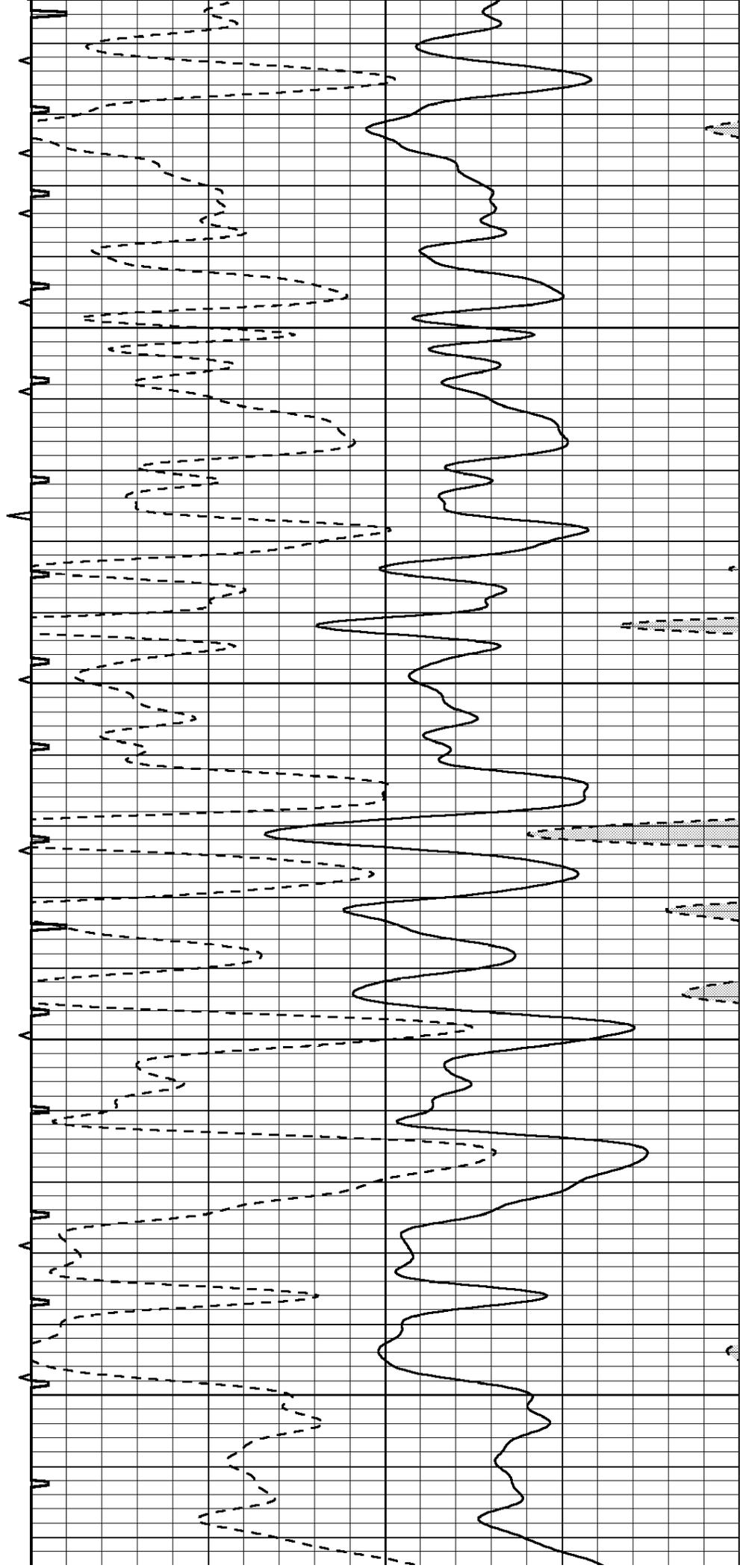


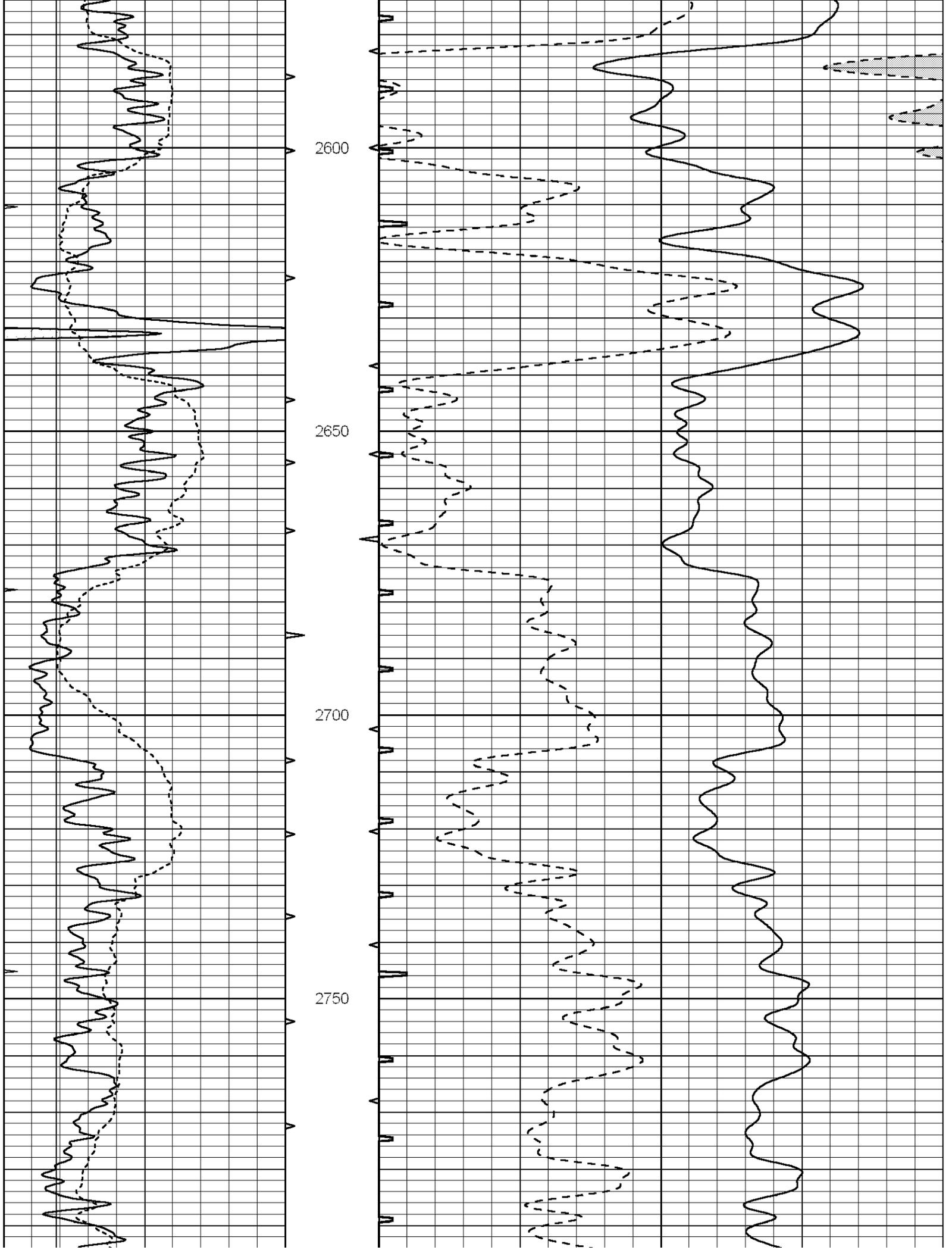
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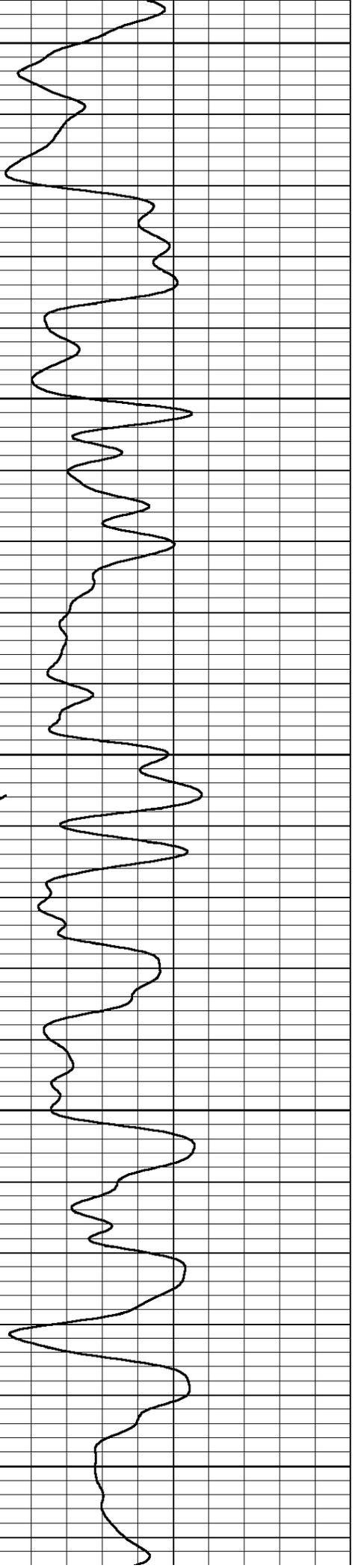
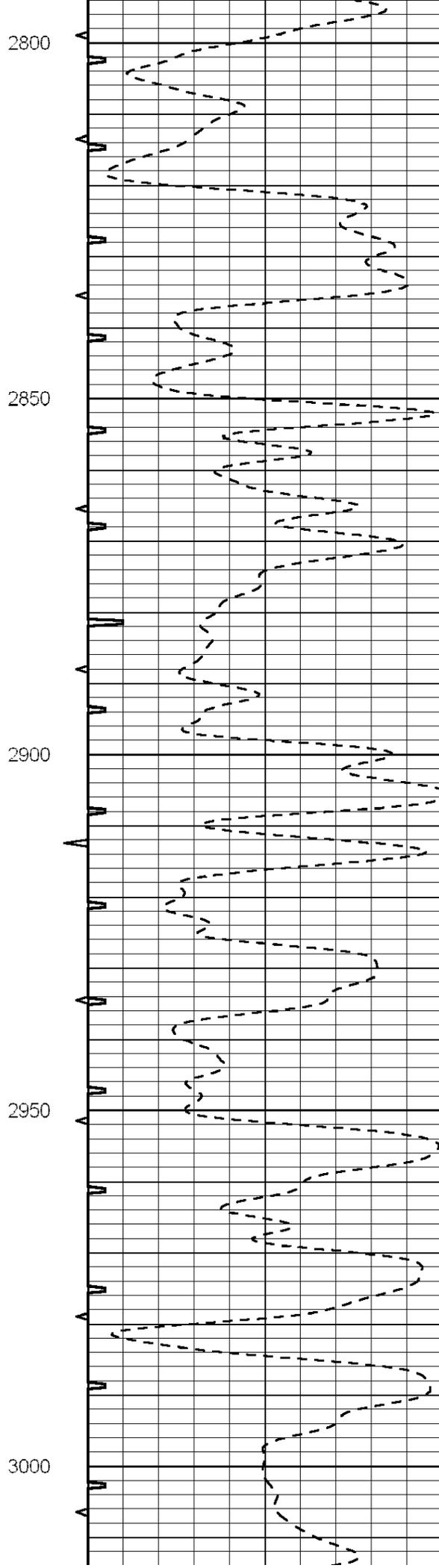
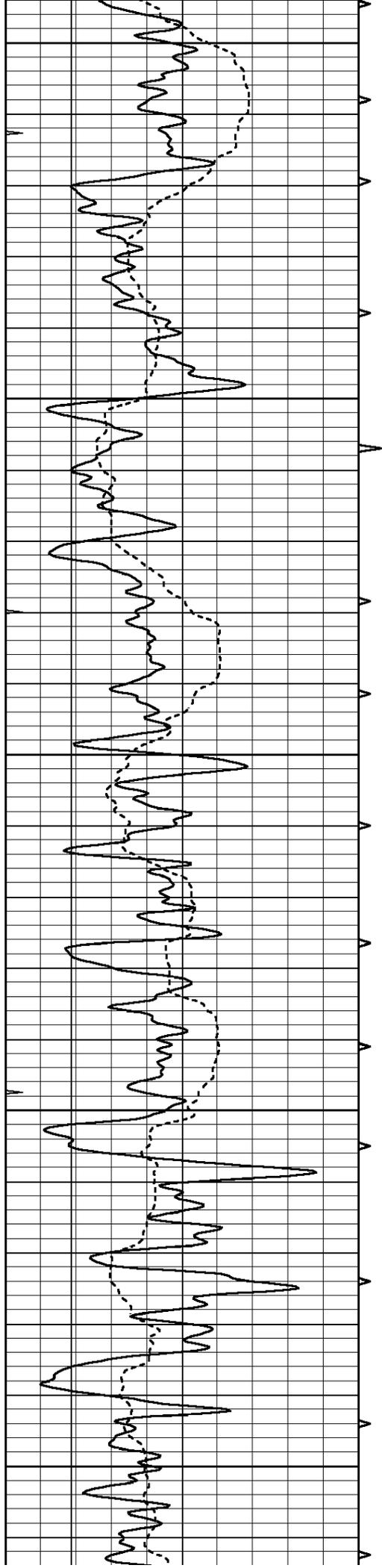
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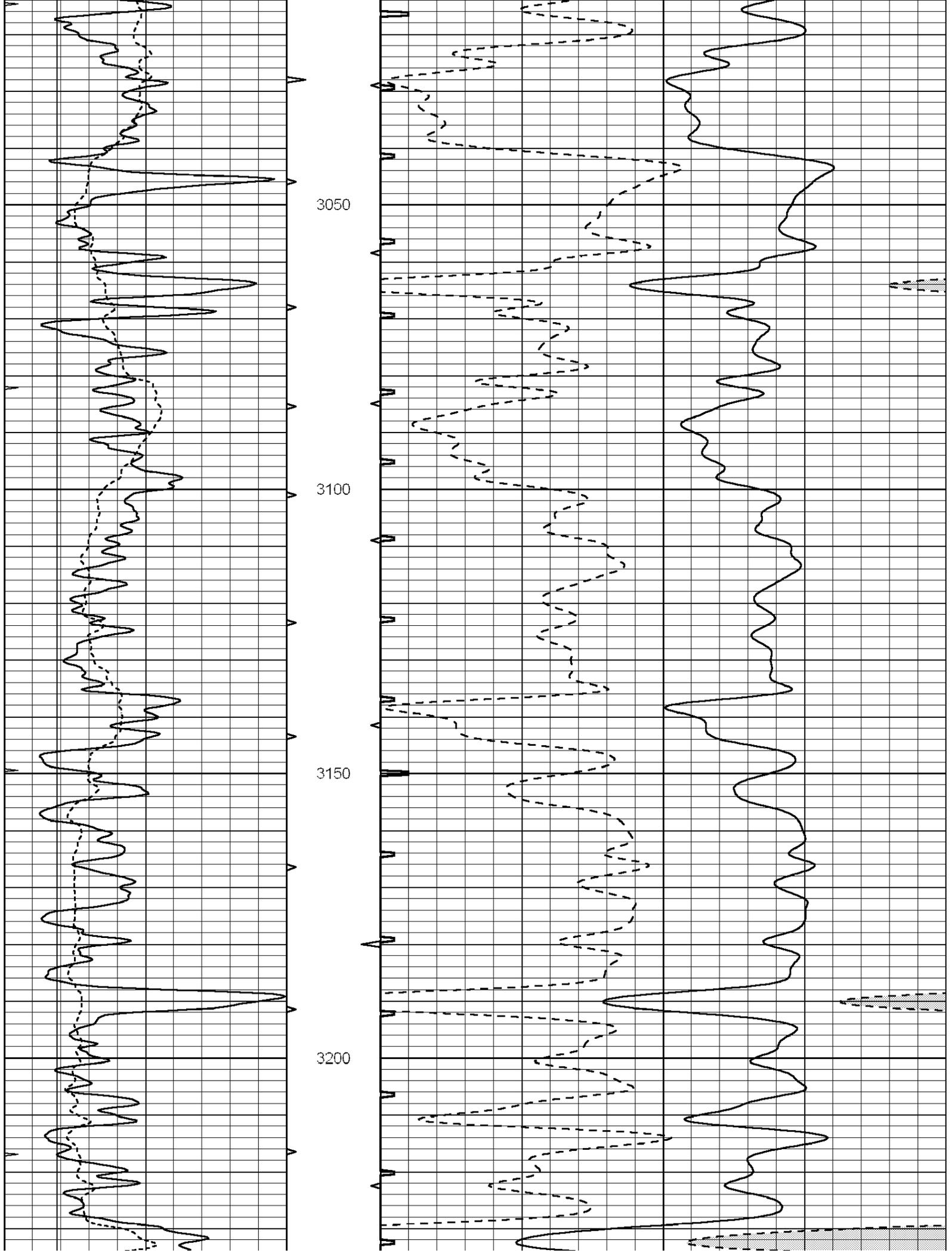
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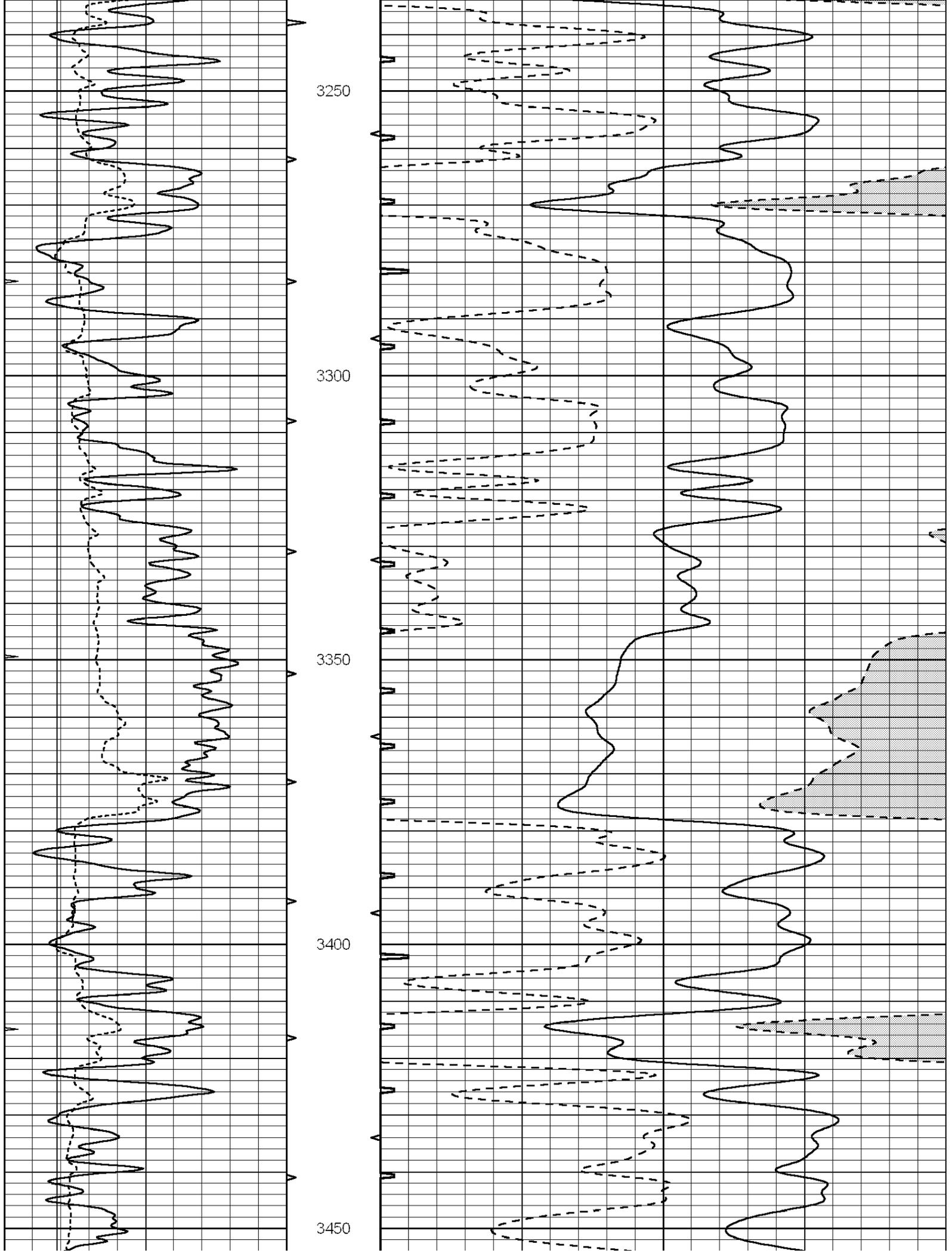
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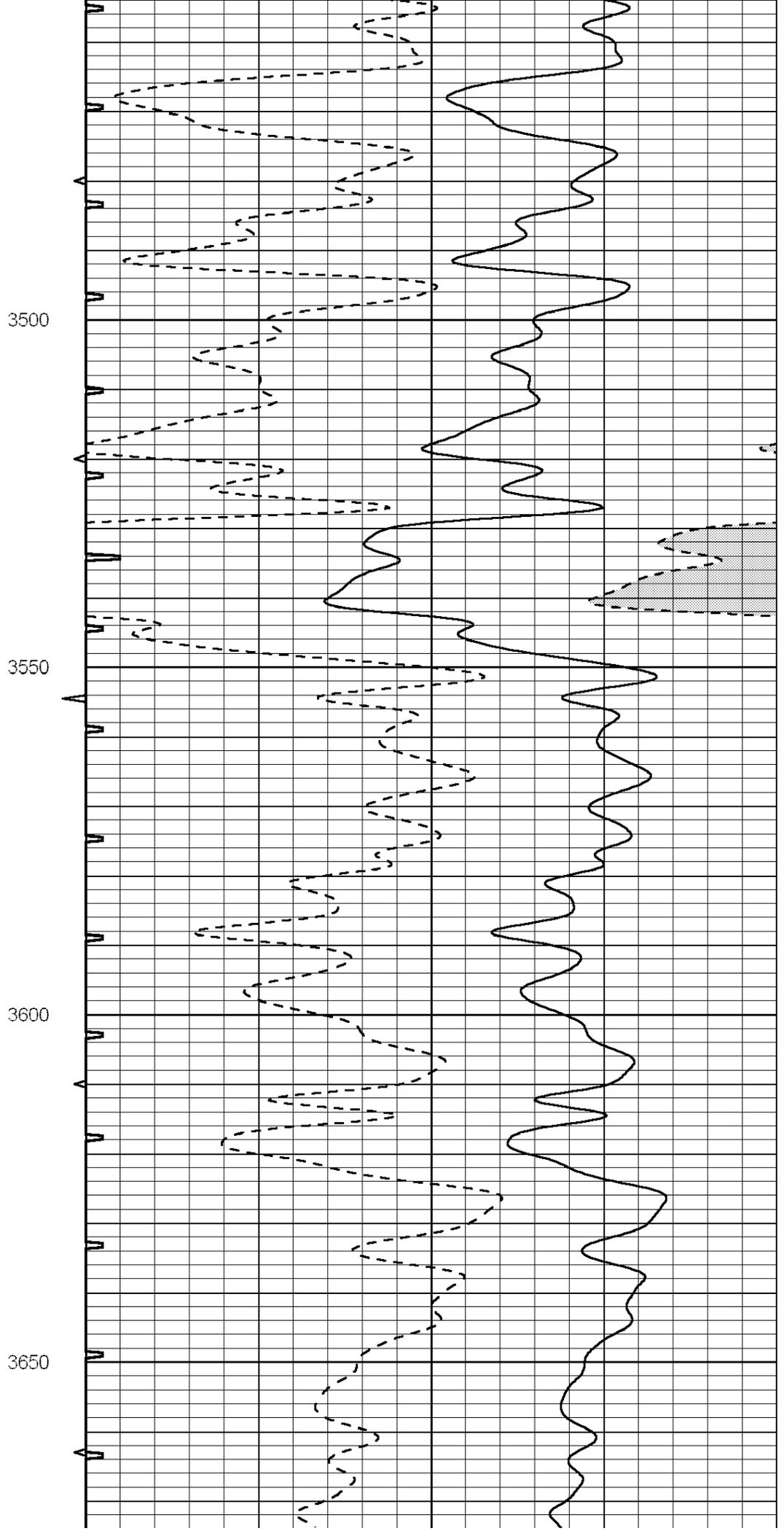
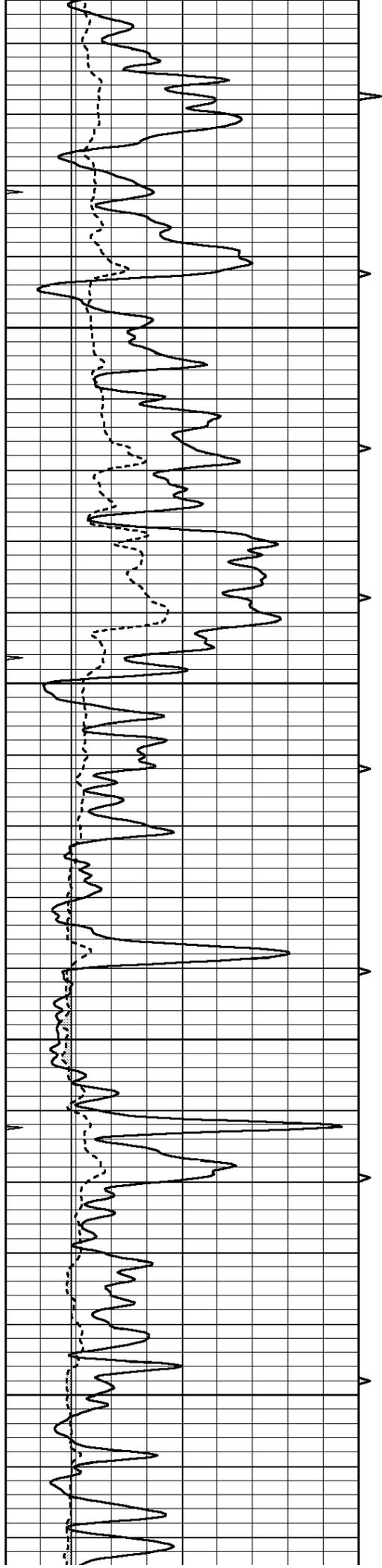




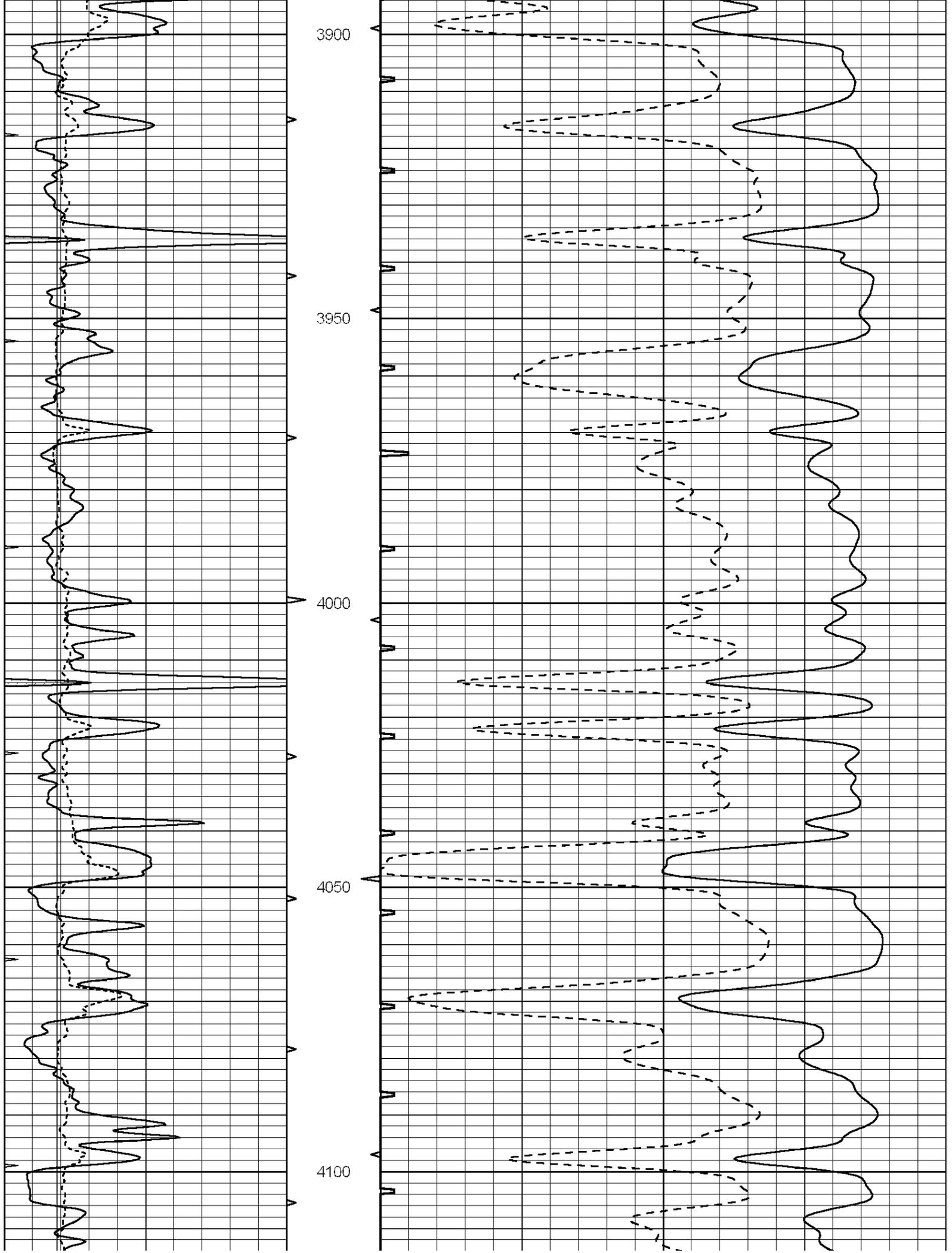


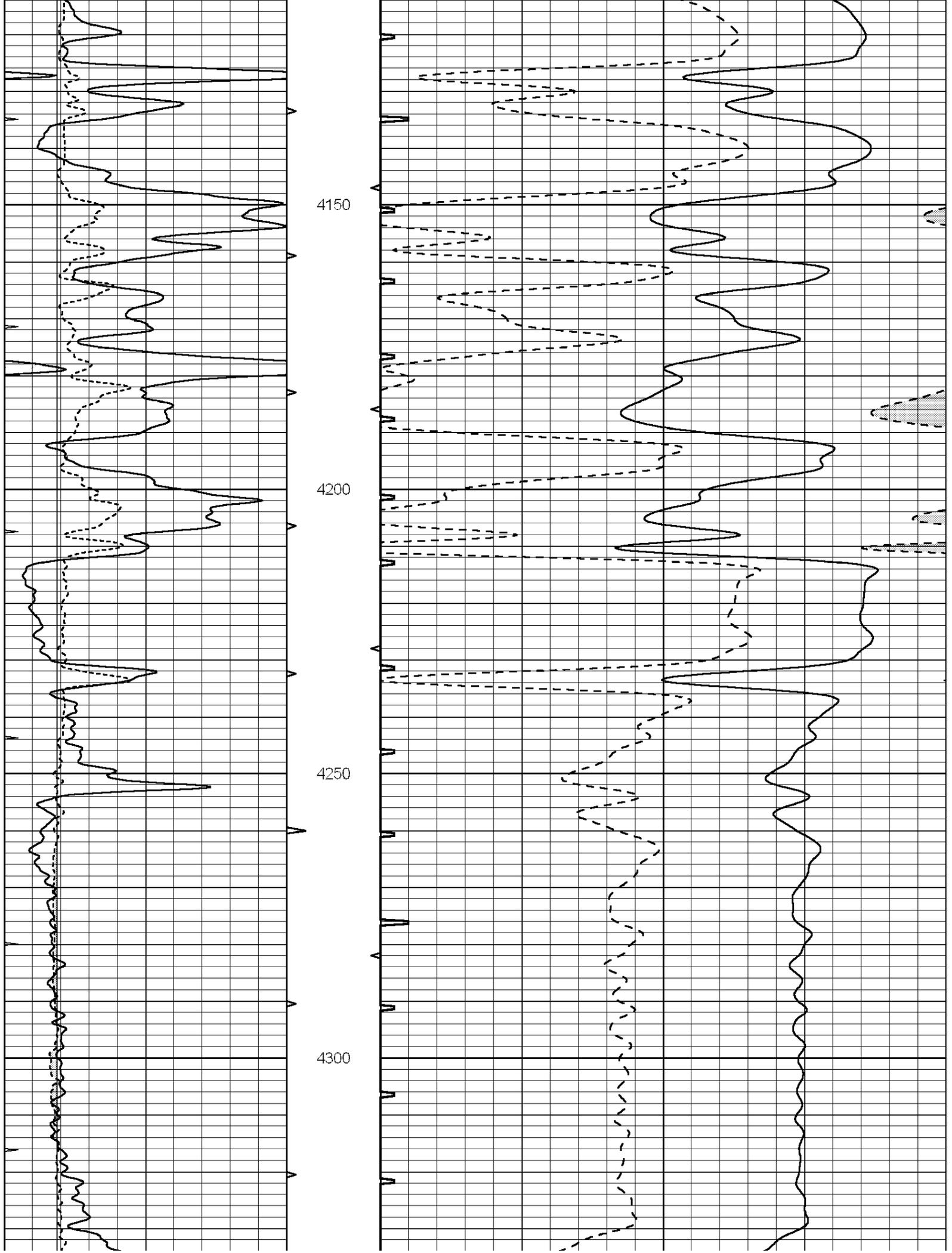


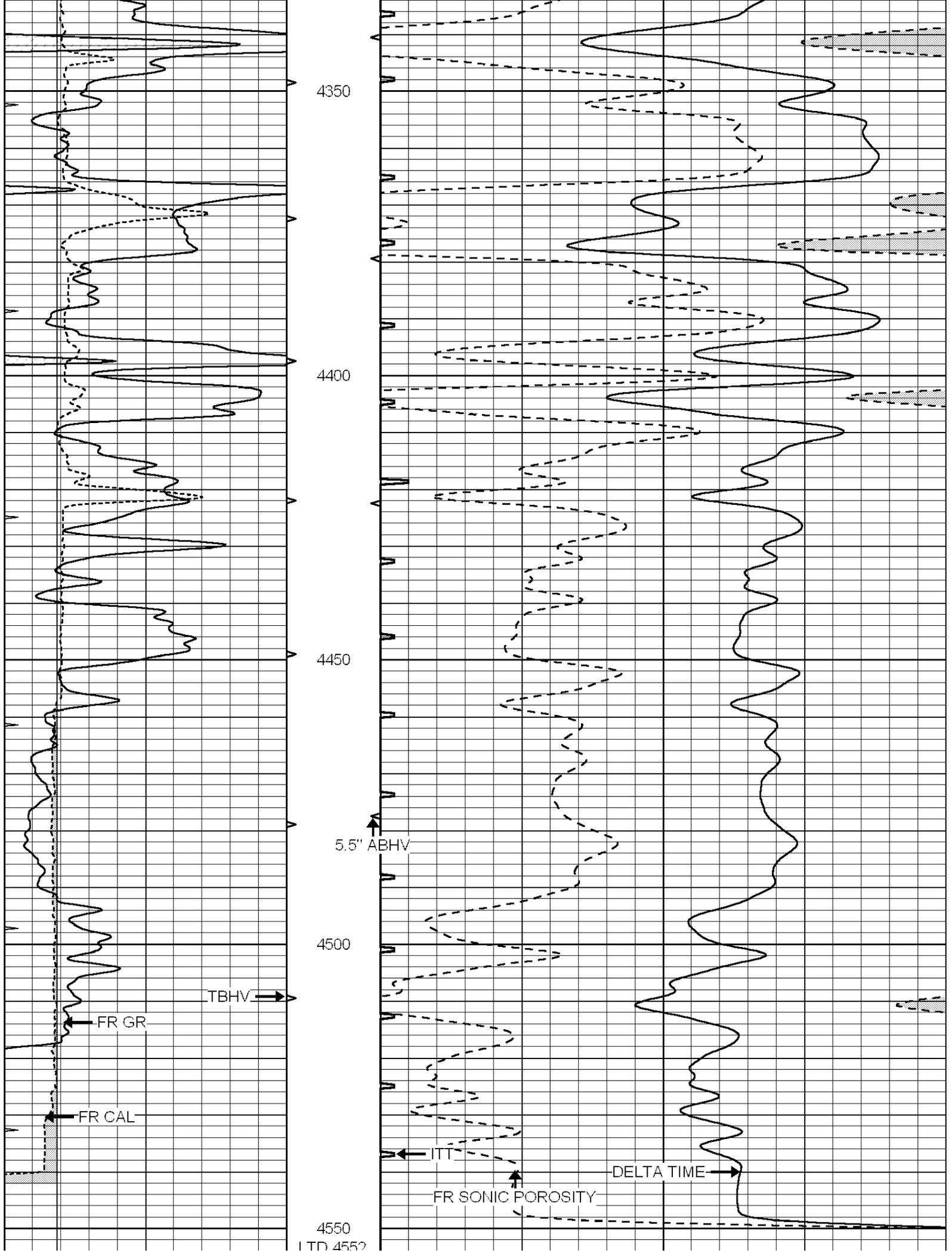












4550  
LTD 4552

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
			0 (ft3) 10			



# REPEAT SECTION

Database File: 010047pe.db  
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 Presentation Format: slt  
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 Charted by: Depth in Feet scaled 1:240

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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			

