



**SONIC  
LOG**

Company YOUNGER ENERGY COMPANY  
 Well GINGRICH UNIT #1-20  
 Field BENSON NORTHEAST  
 County PAWNEE  
 State KANSAS

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 Well GINGRICH UNIT #1-20  
 Field BENSON NORTHEAST  
 County PAWNEE State KANSAS

Location: API # : 15-145-21847-0000  
 2500' FSL & 400' FVL  
 NE - NW - NW - SW  
 SEC 20 TWP 23S RGE 15W  
 Permanent Datum GROUND LEVEL Elevation 2038  
 Log Measured From KELLY BUSHING 8' A.G.L.  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 CDL/CNL/PE  
 DIL/MEL  
 Elevation  
 K.B. 2046  
 D.F. 2044  
 G.L. 2038

Date	3/1/19		
Run Number	TWO		
Depth Driller	4205		
Depth Logger	4204		
Bottom Logged Interval	4196		
Top Log Interval	900		
Casing Driller	8 5/8"@989'		
Casing Logger	989		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,000 PPM	
Density / Viscosity	9.5/65		
pH / Fluid Loss	9.5/11.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.600@60F		
Rmf @ Meas. Temp	.450@60F		
Rmc @ Meas. Temp	.720@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.305@118F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	10:30 P.M.		
Maximum Recorded Temperature	118F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEITH REAVIS		

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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

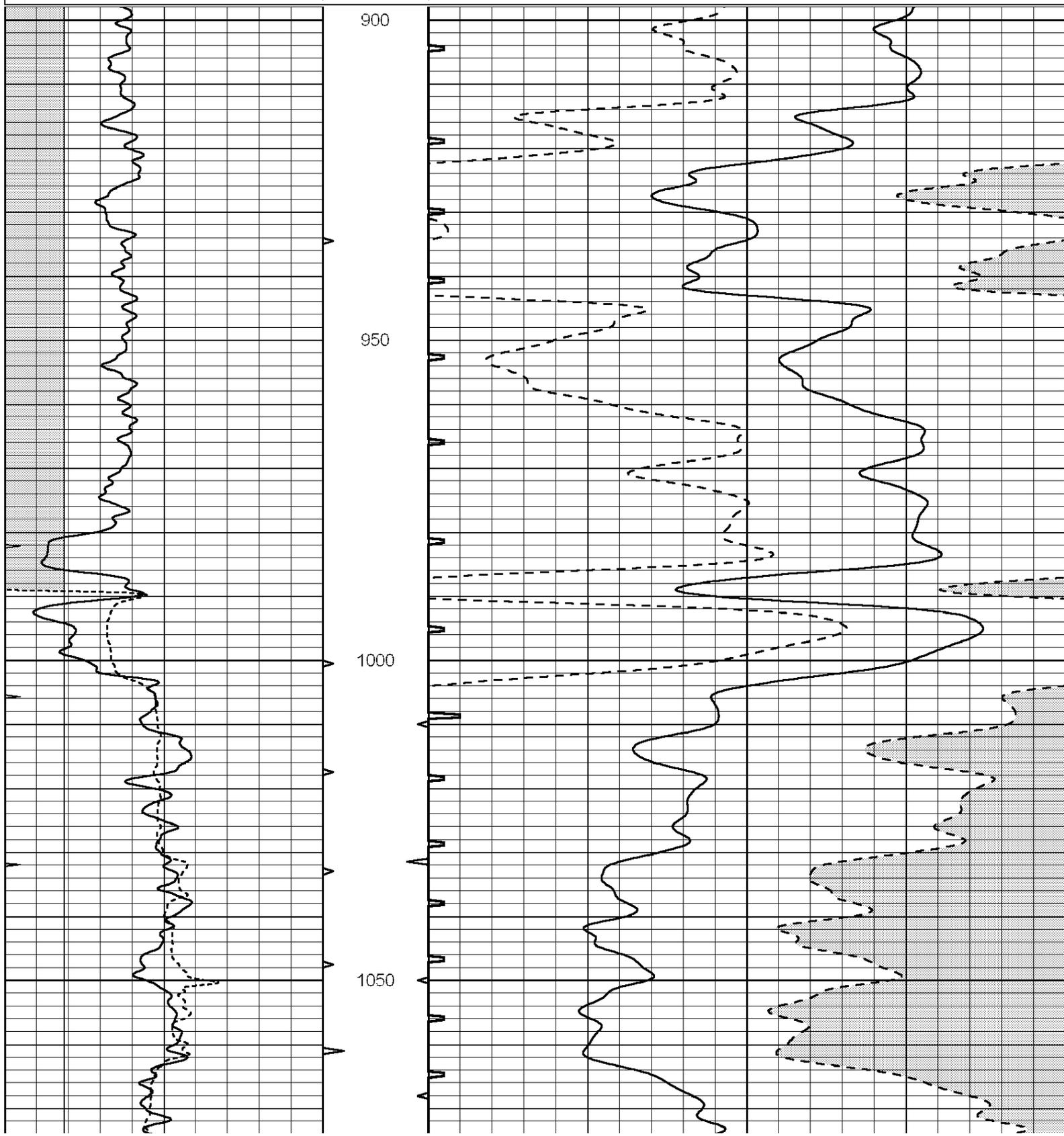
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395  
 DIRECTIONS  
 LARNED, KS., EAST ON K-19 TO (" RD. 40" MACKSVILLE BLKTOP) 8S. TO "RD. D", 2W., 1/2S., E. INTO

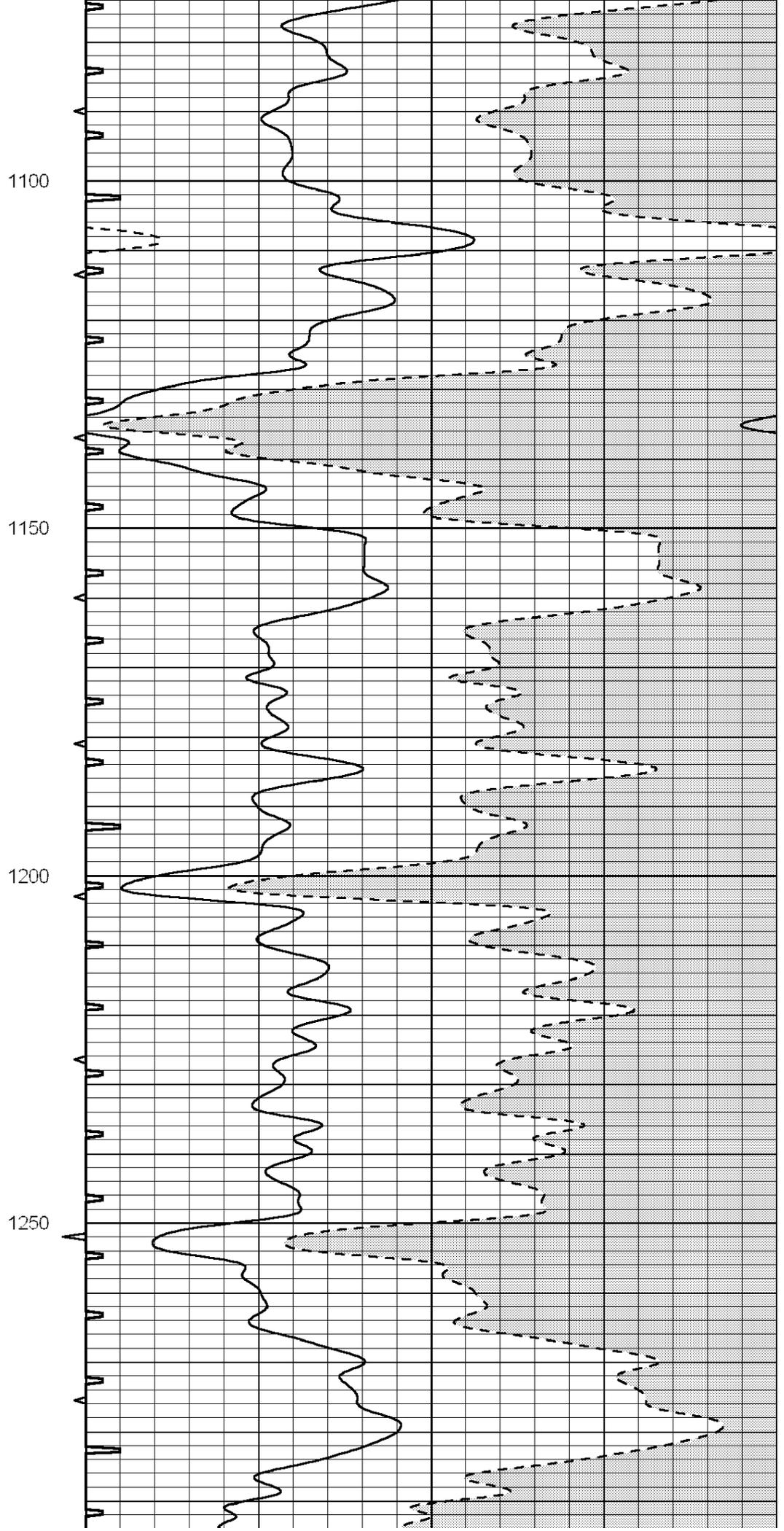
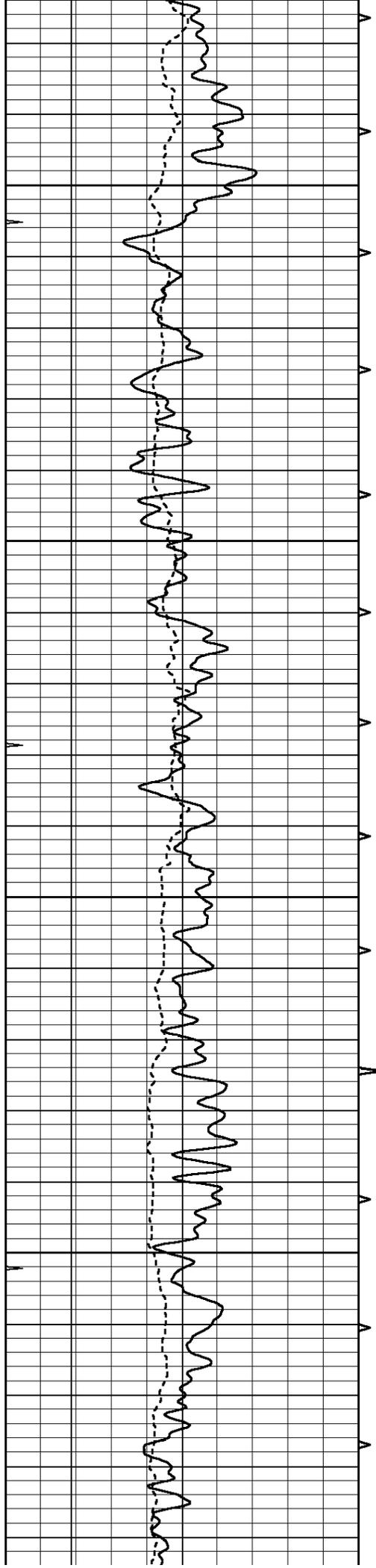


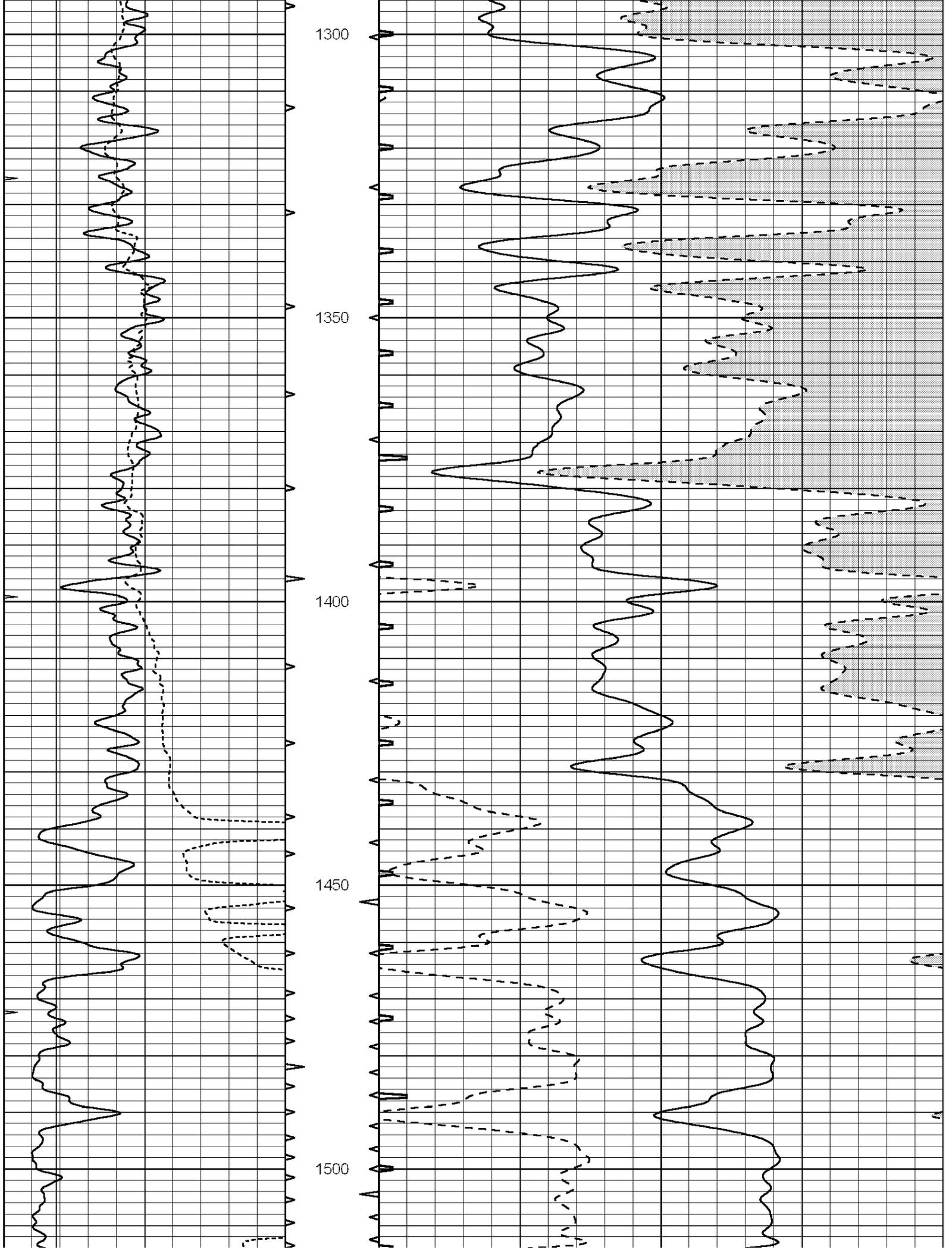
# MAIN SECTION

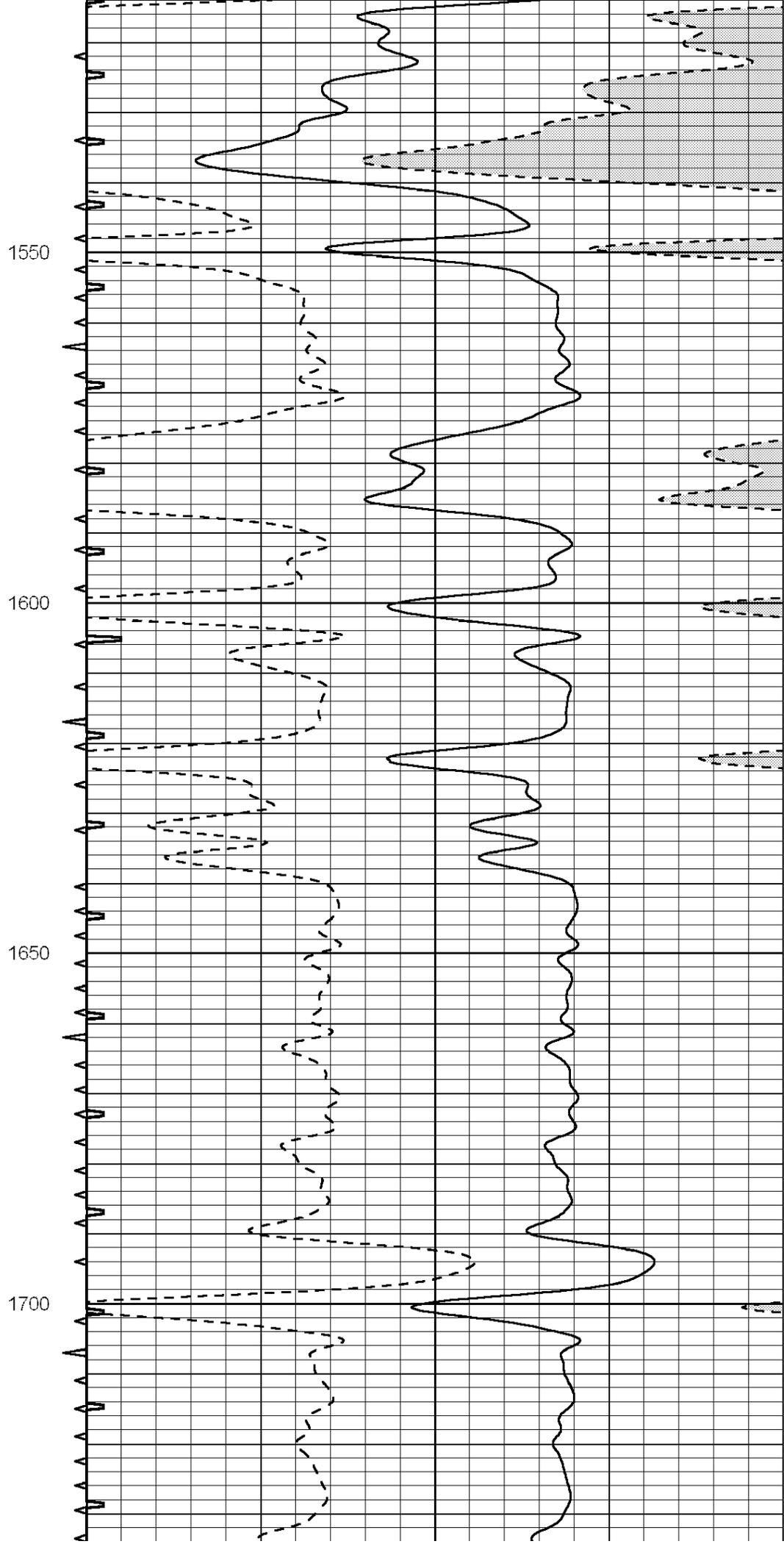
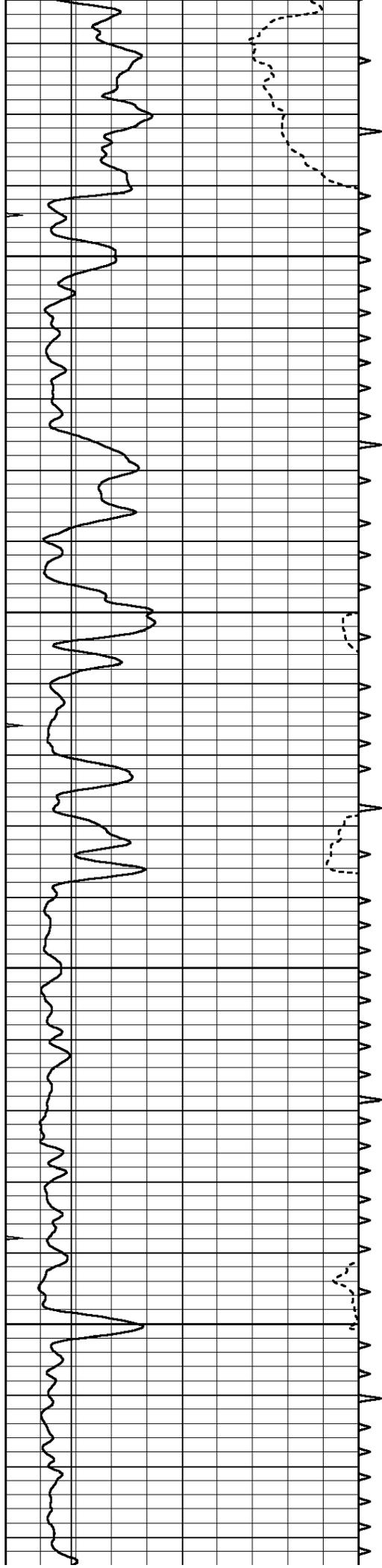
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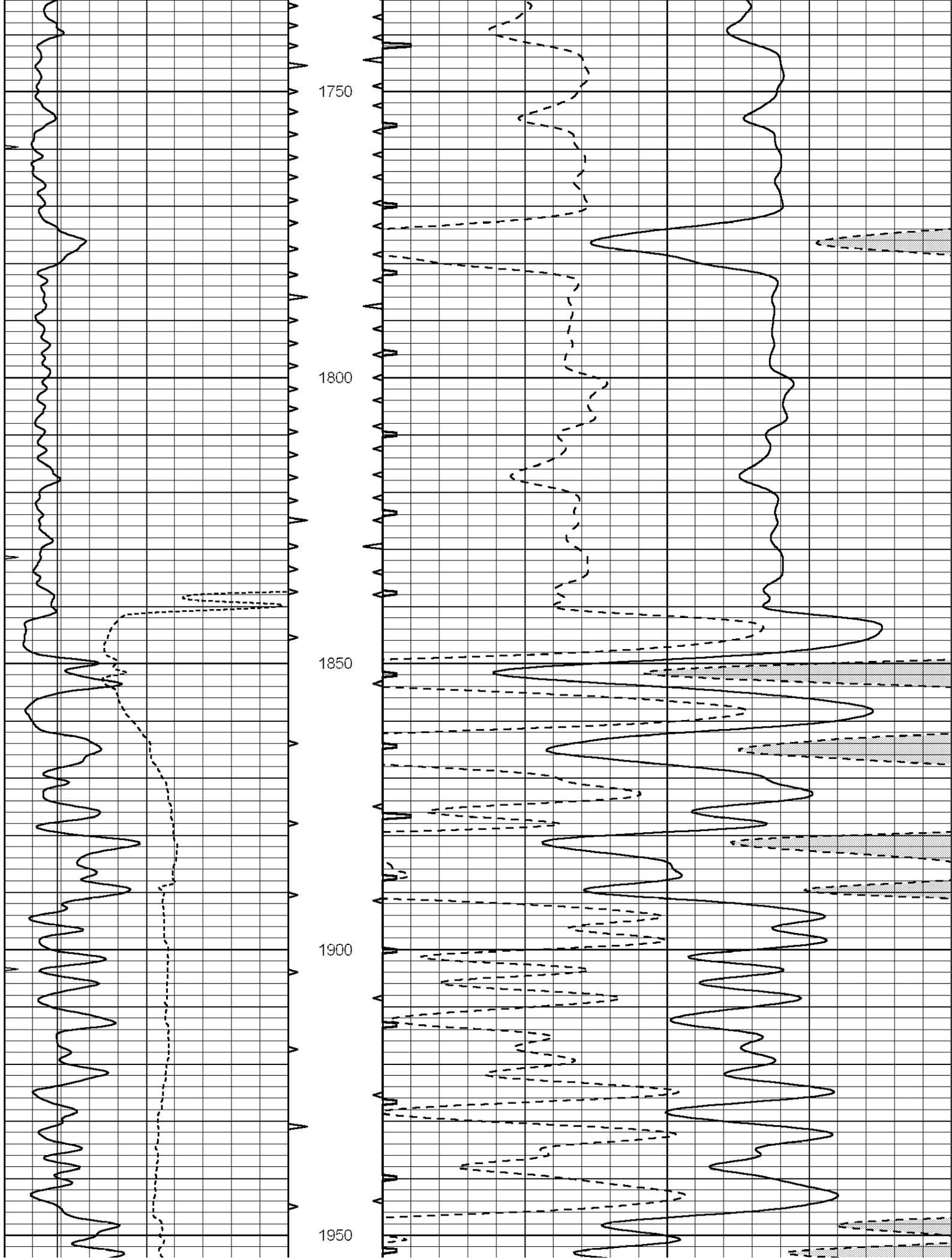
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		

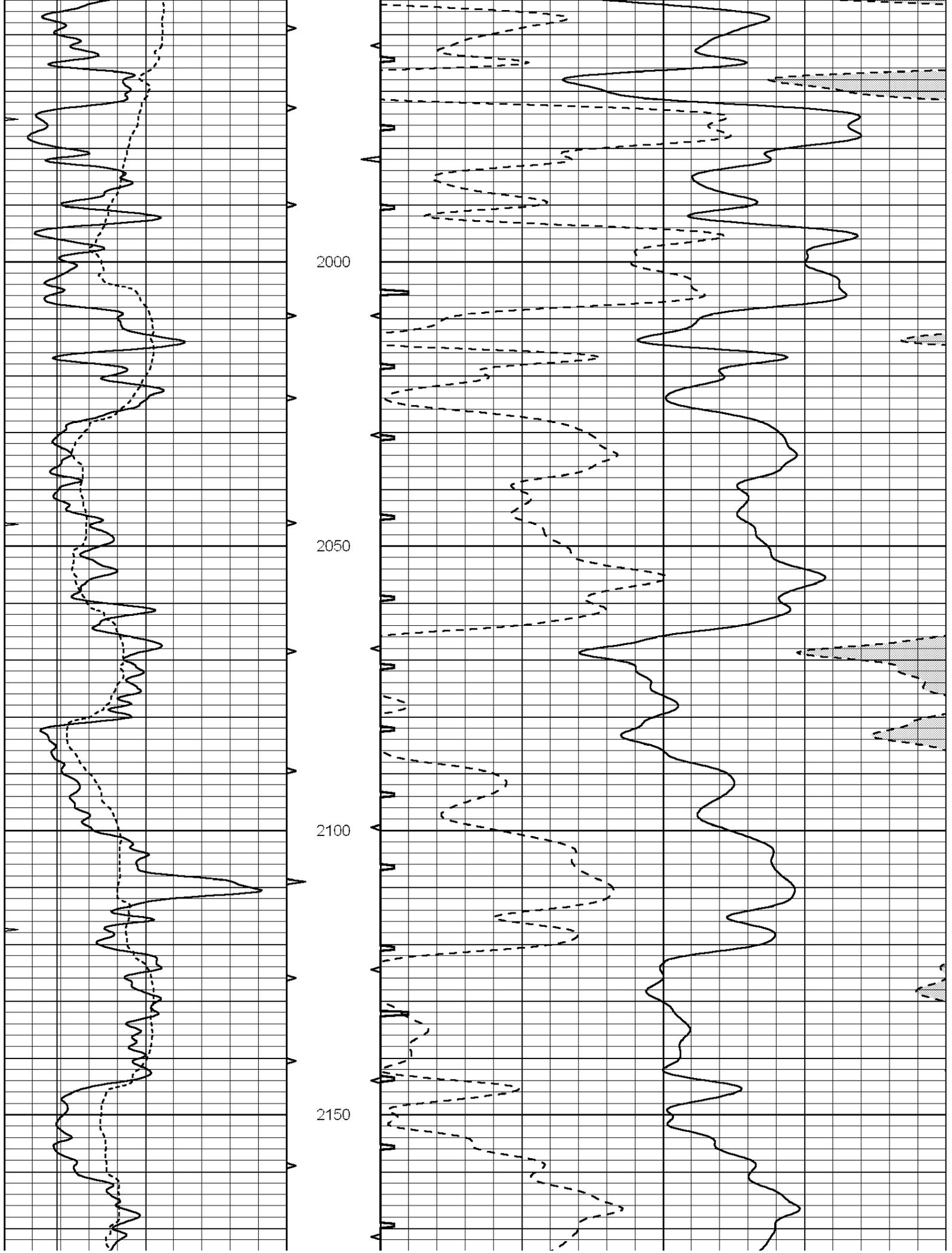


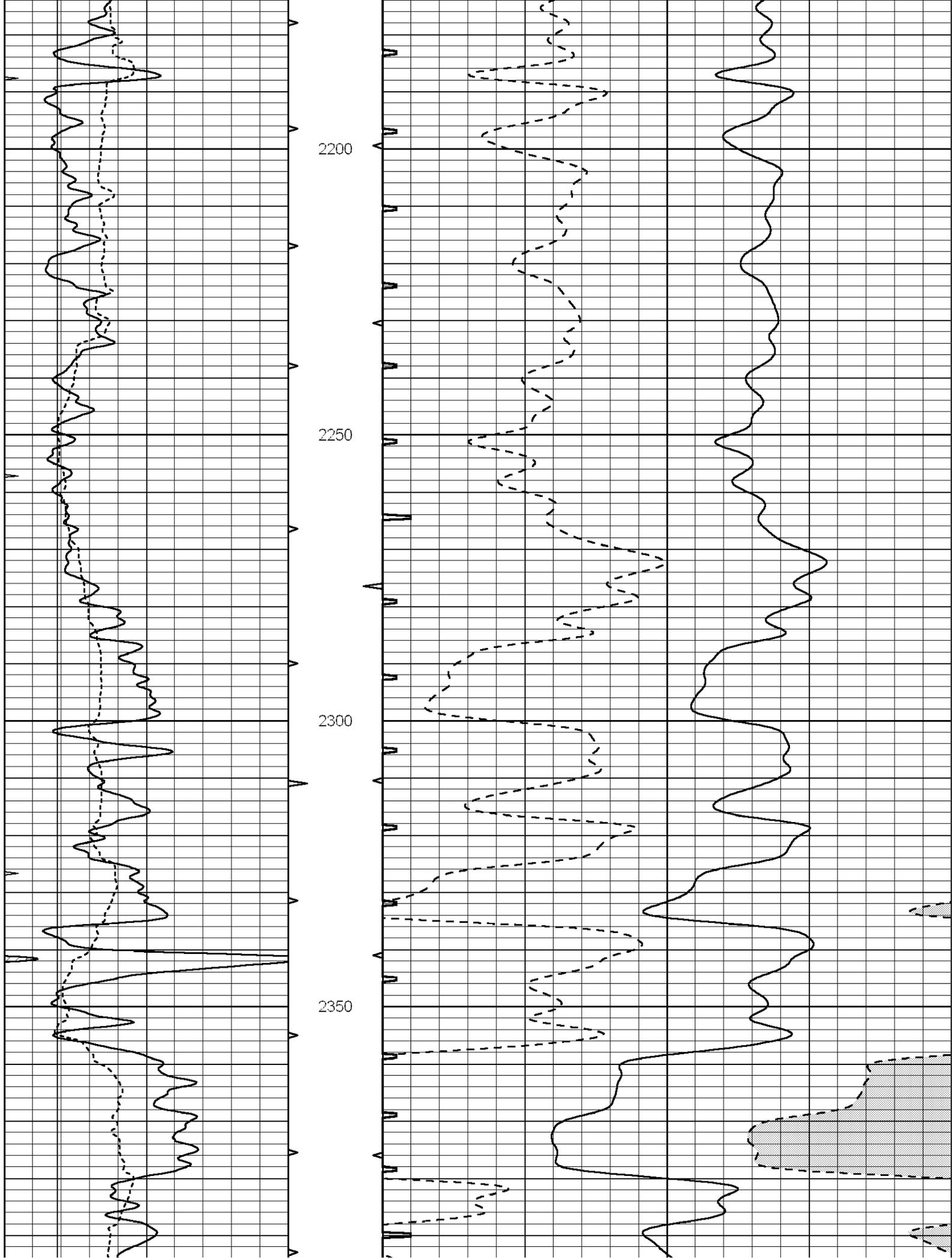


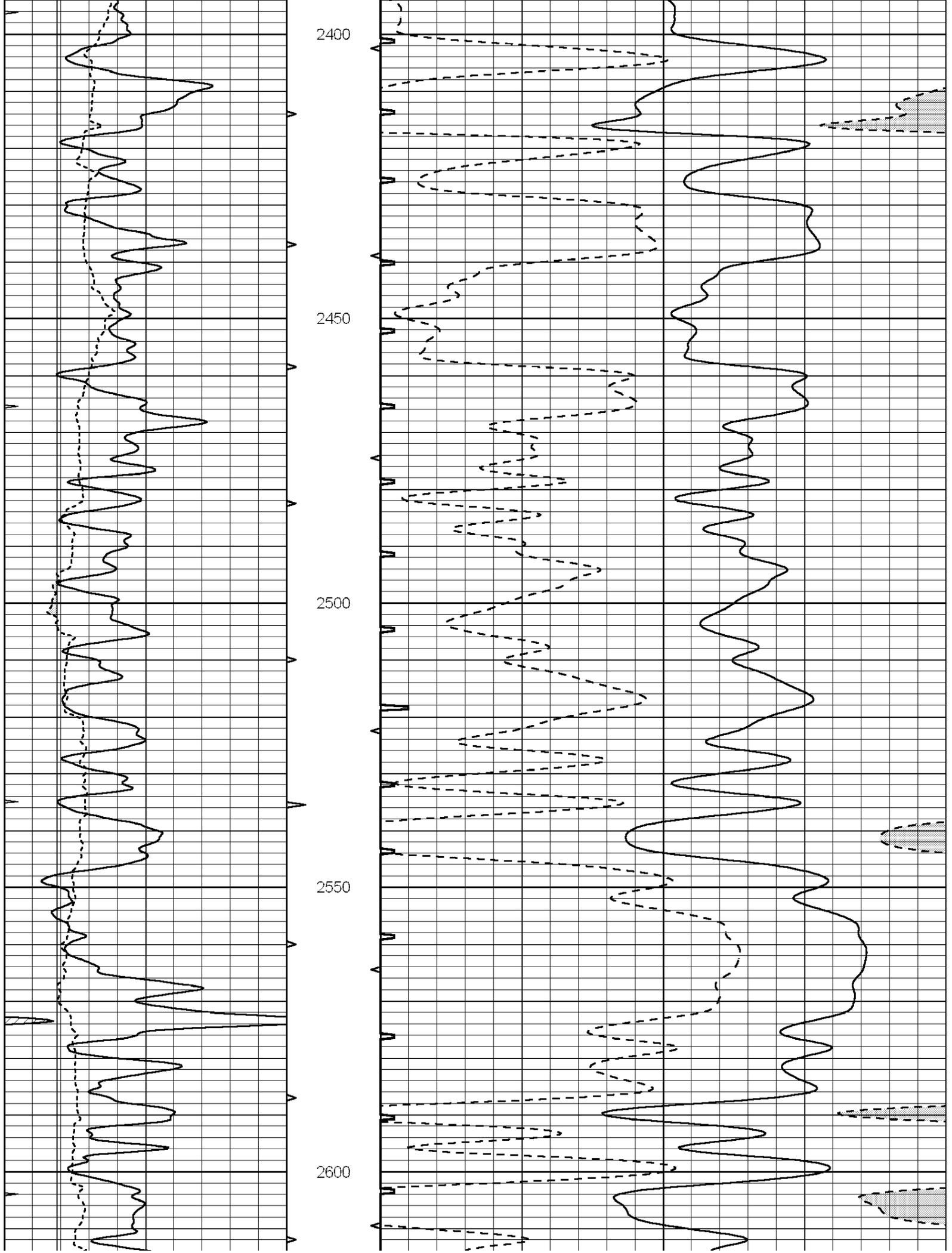


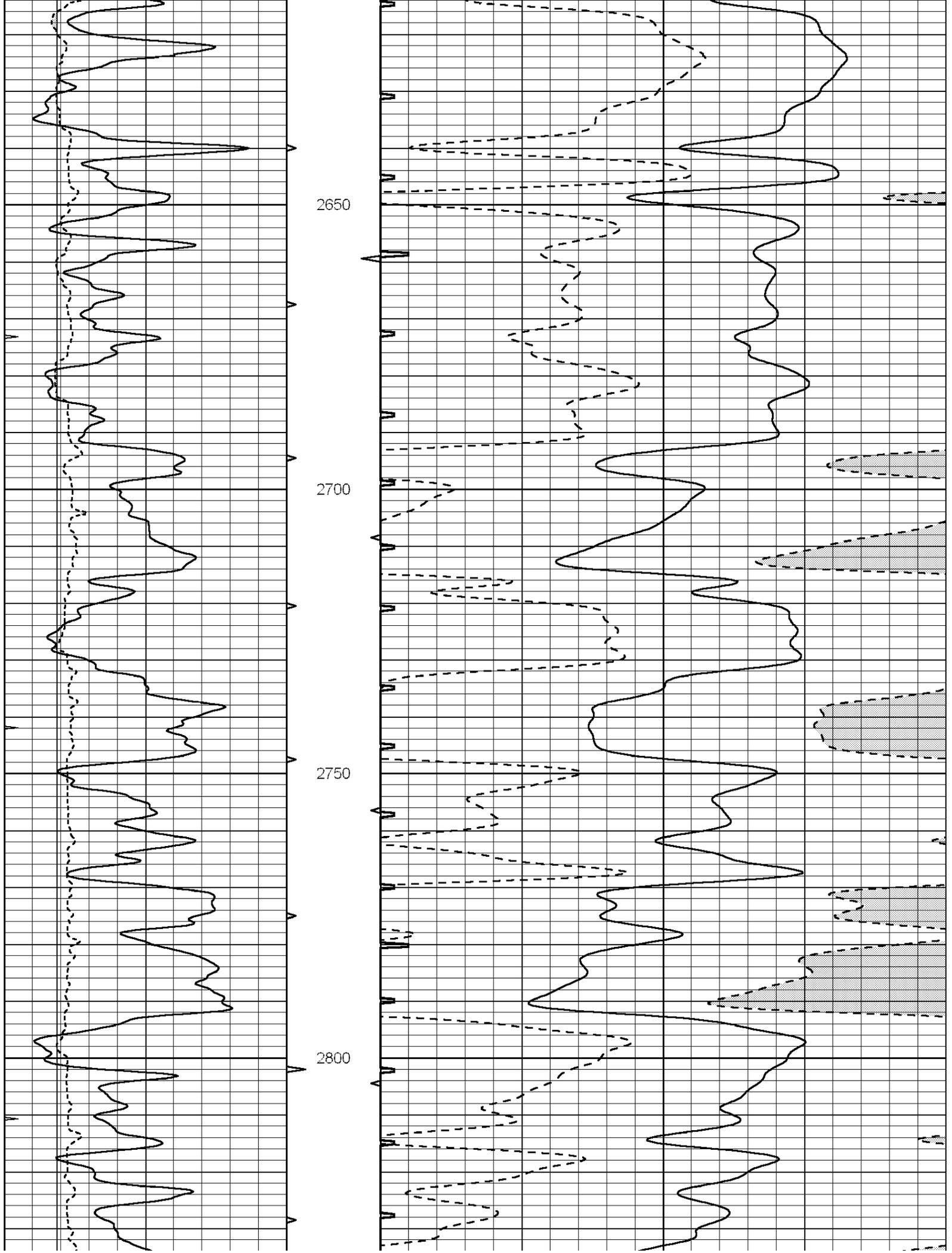


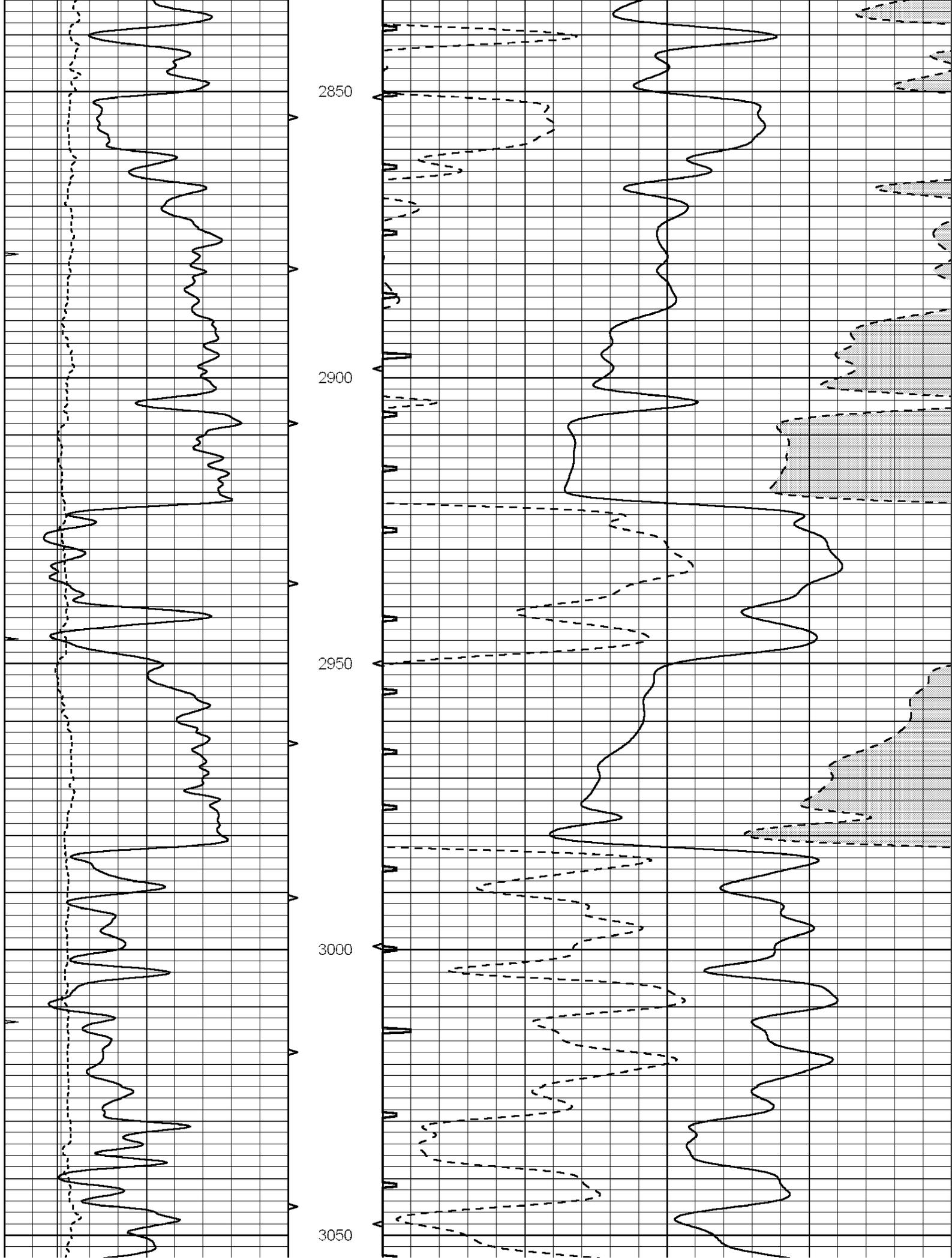


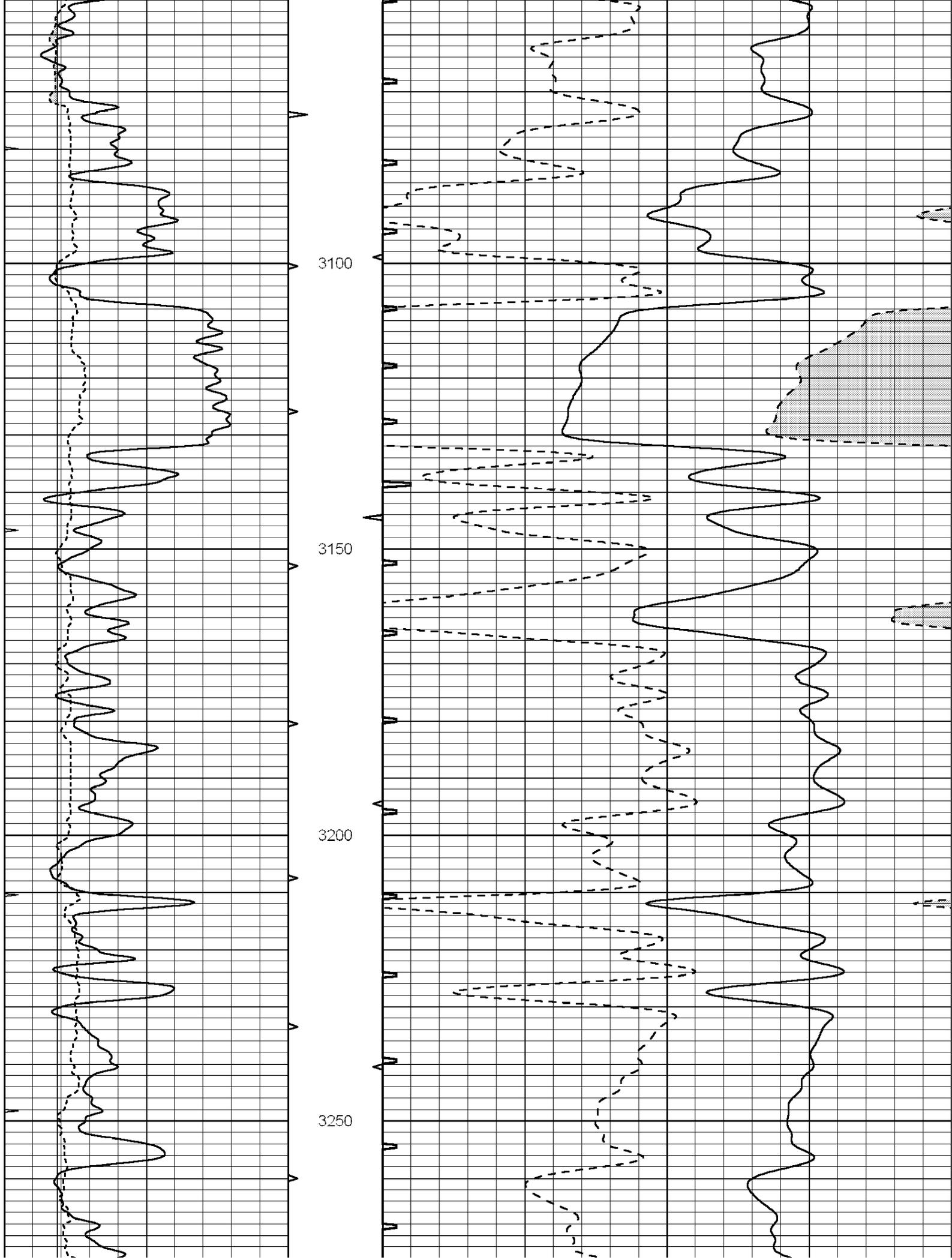


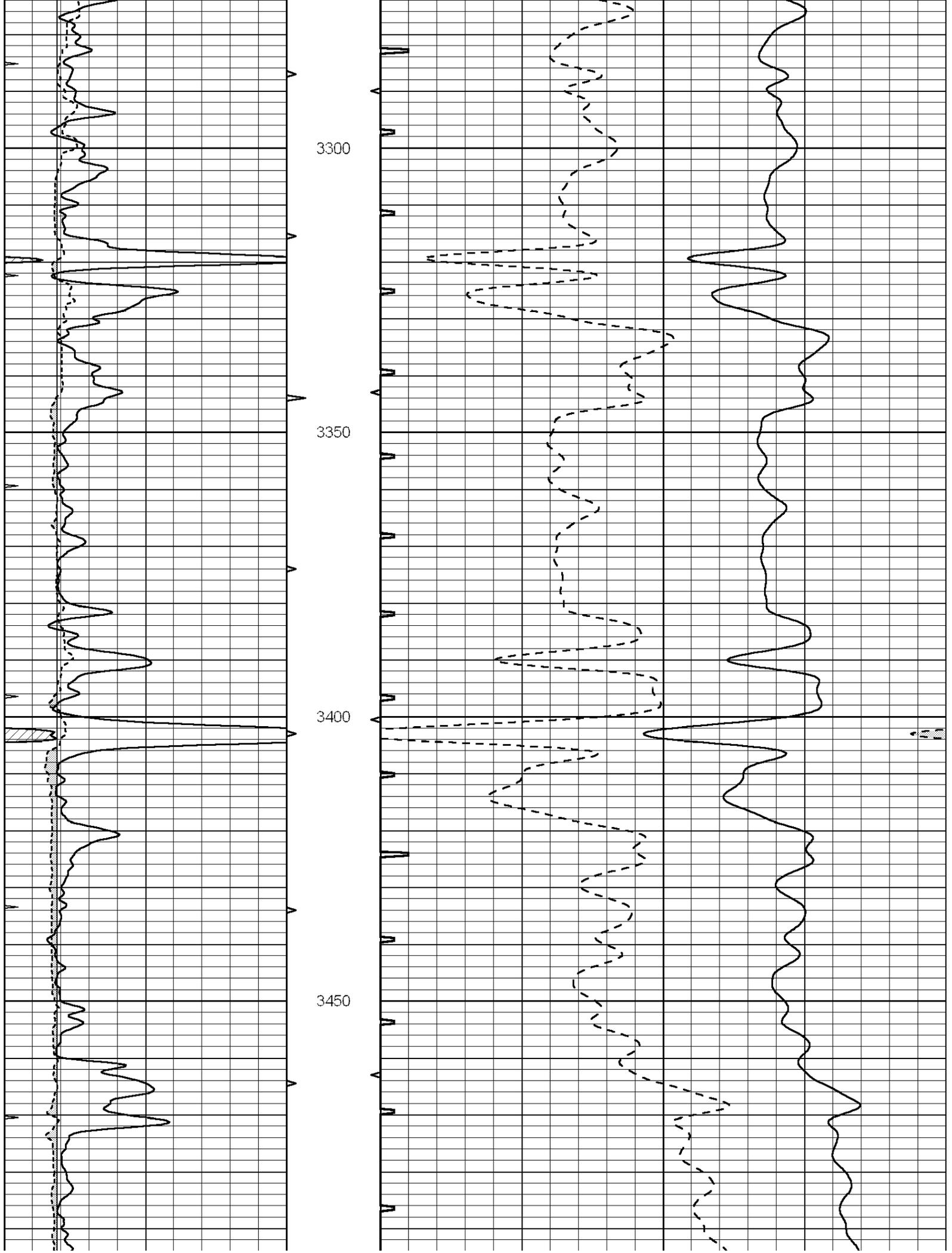


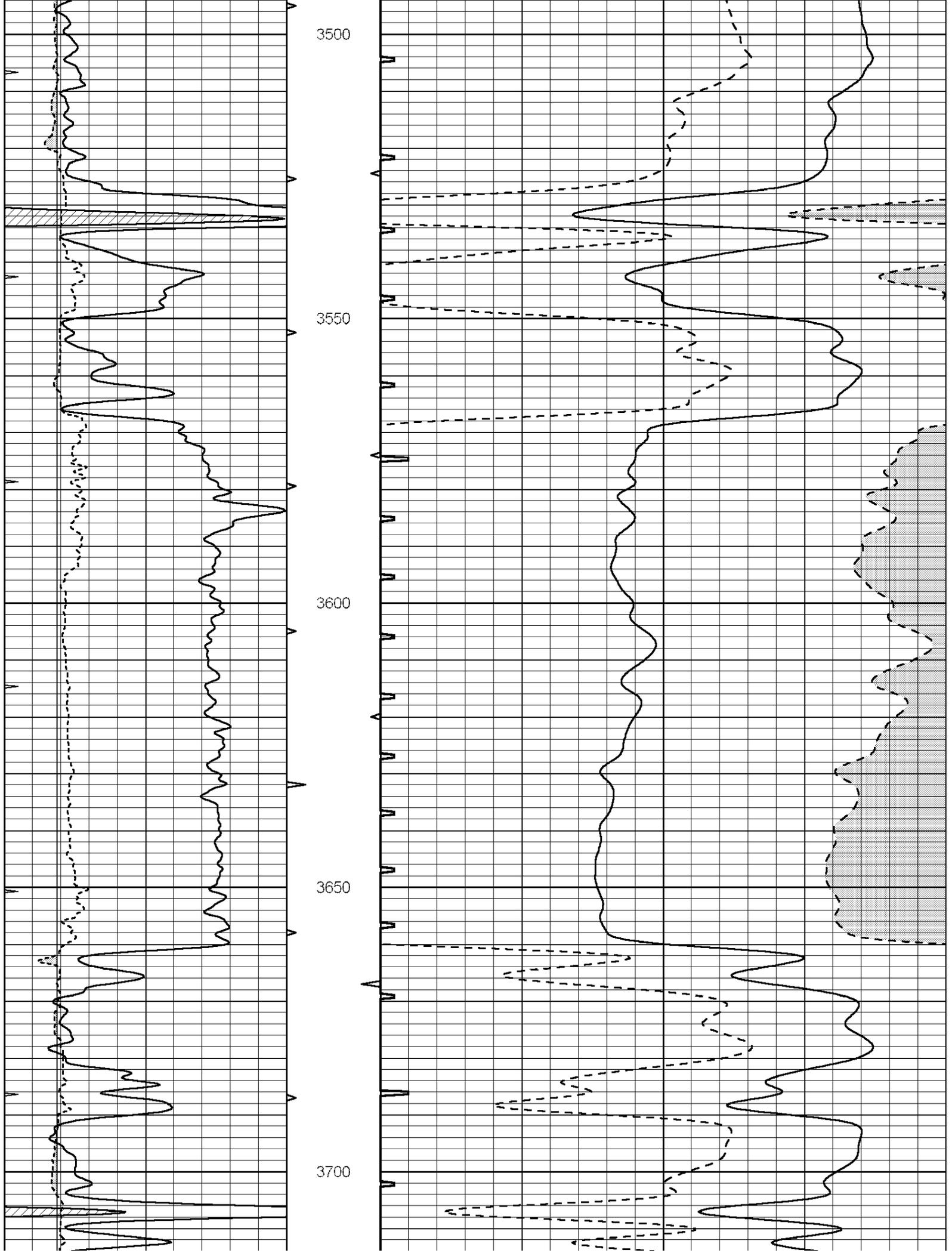


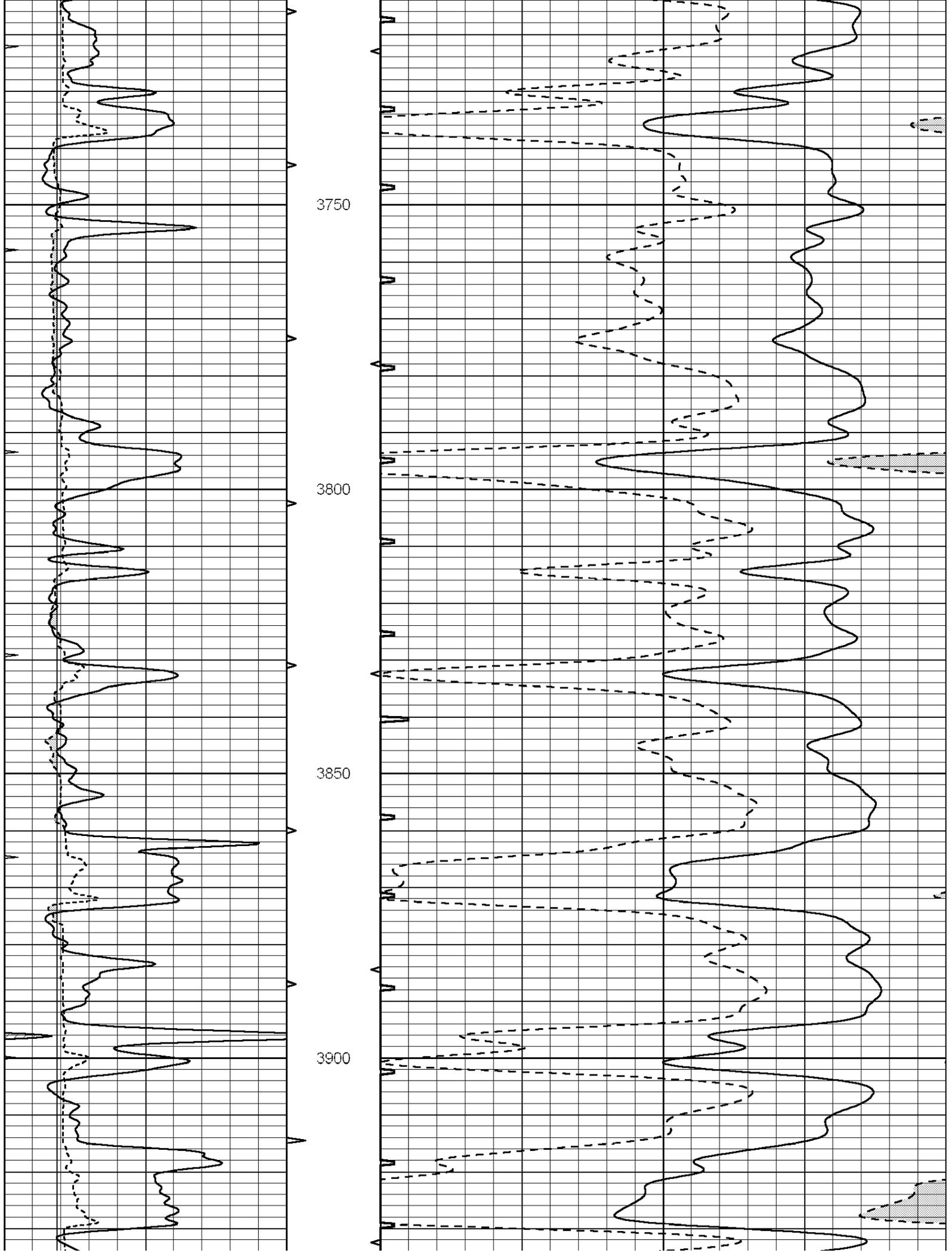


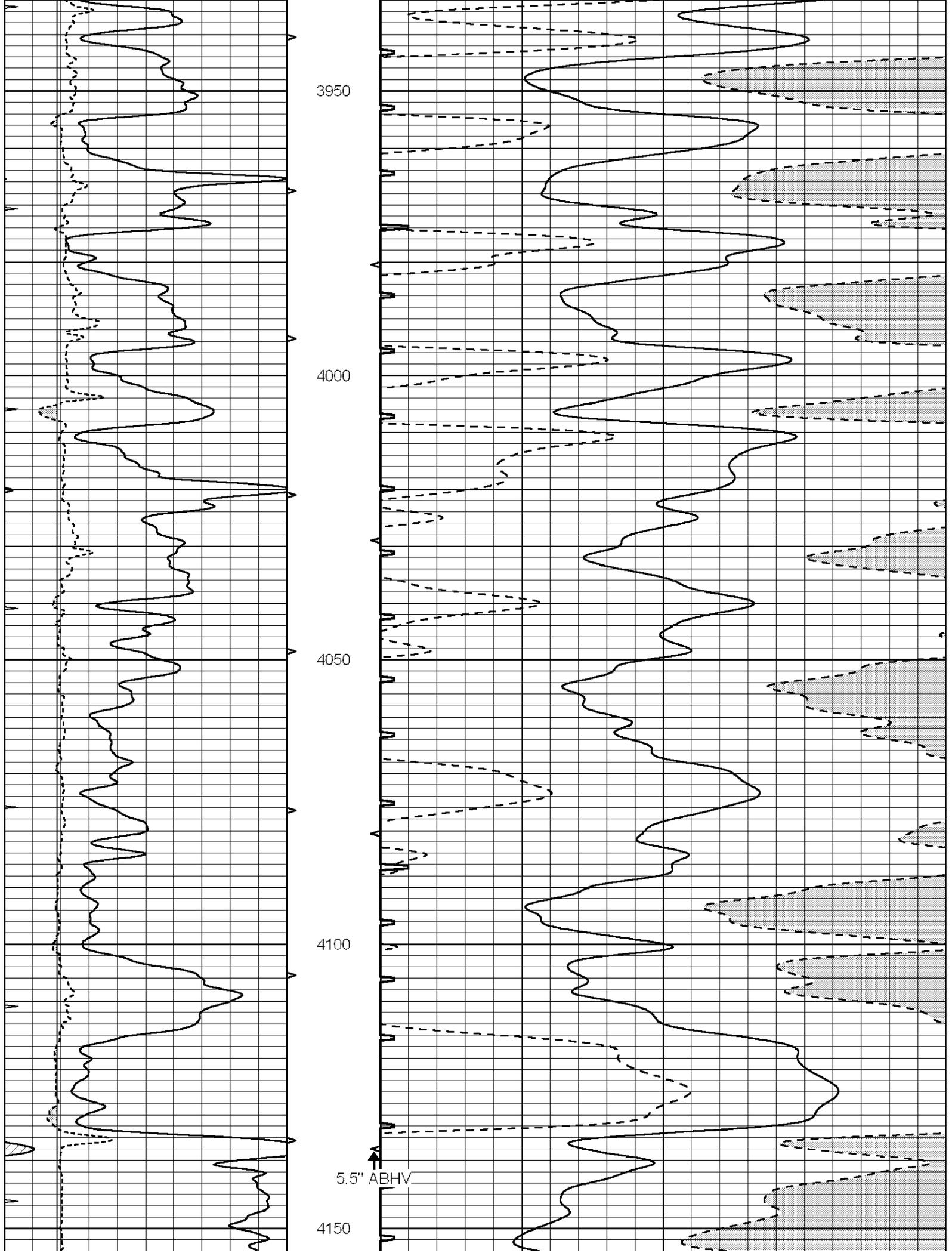


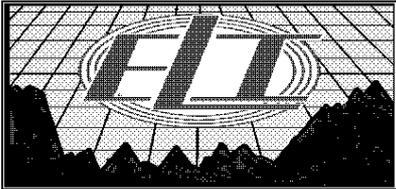
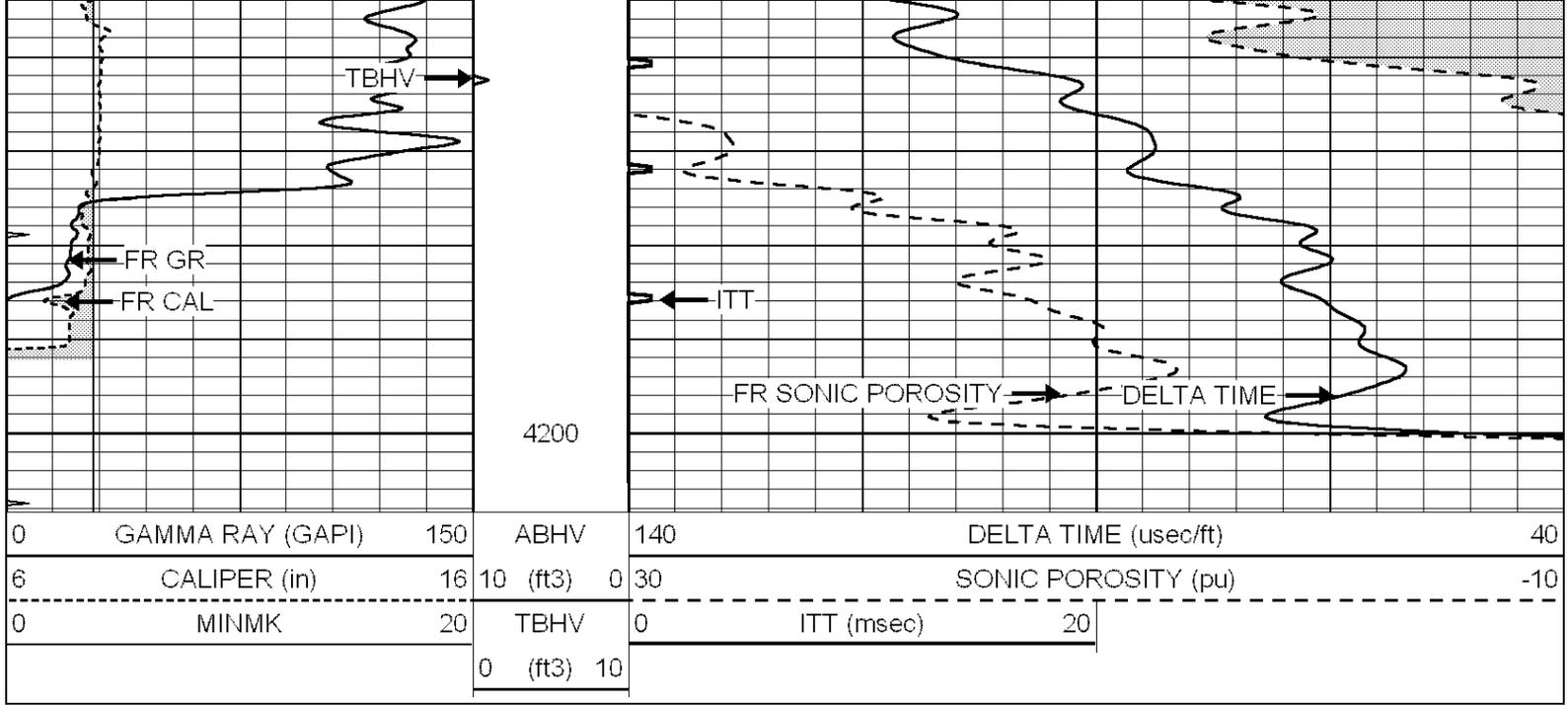






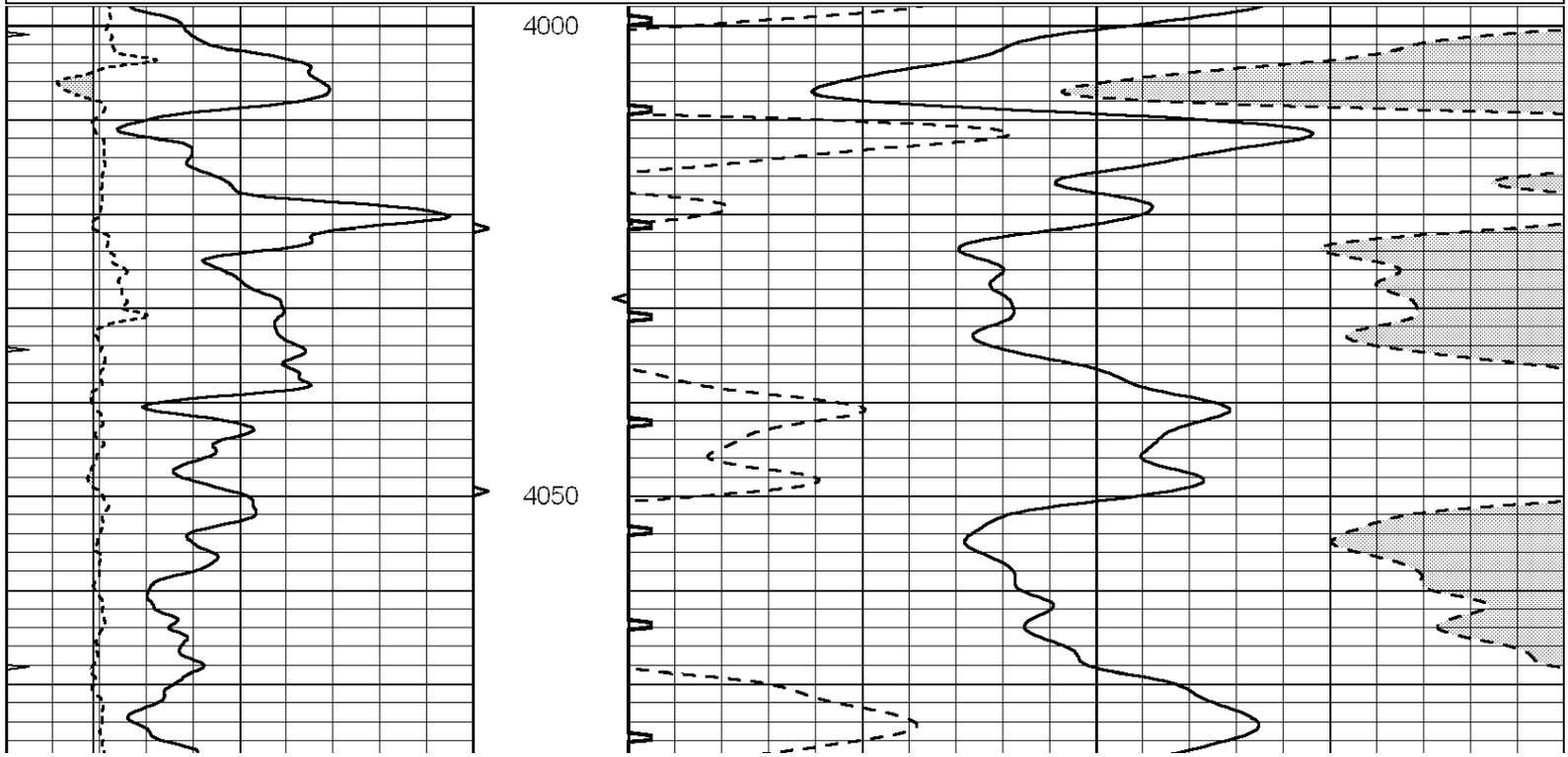
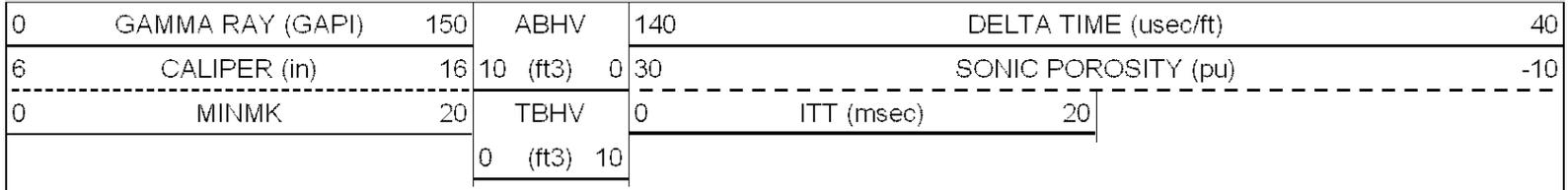


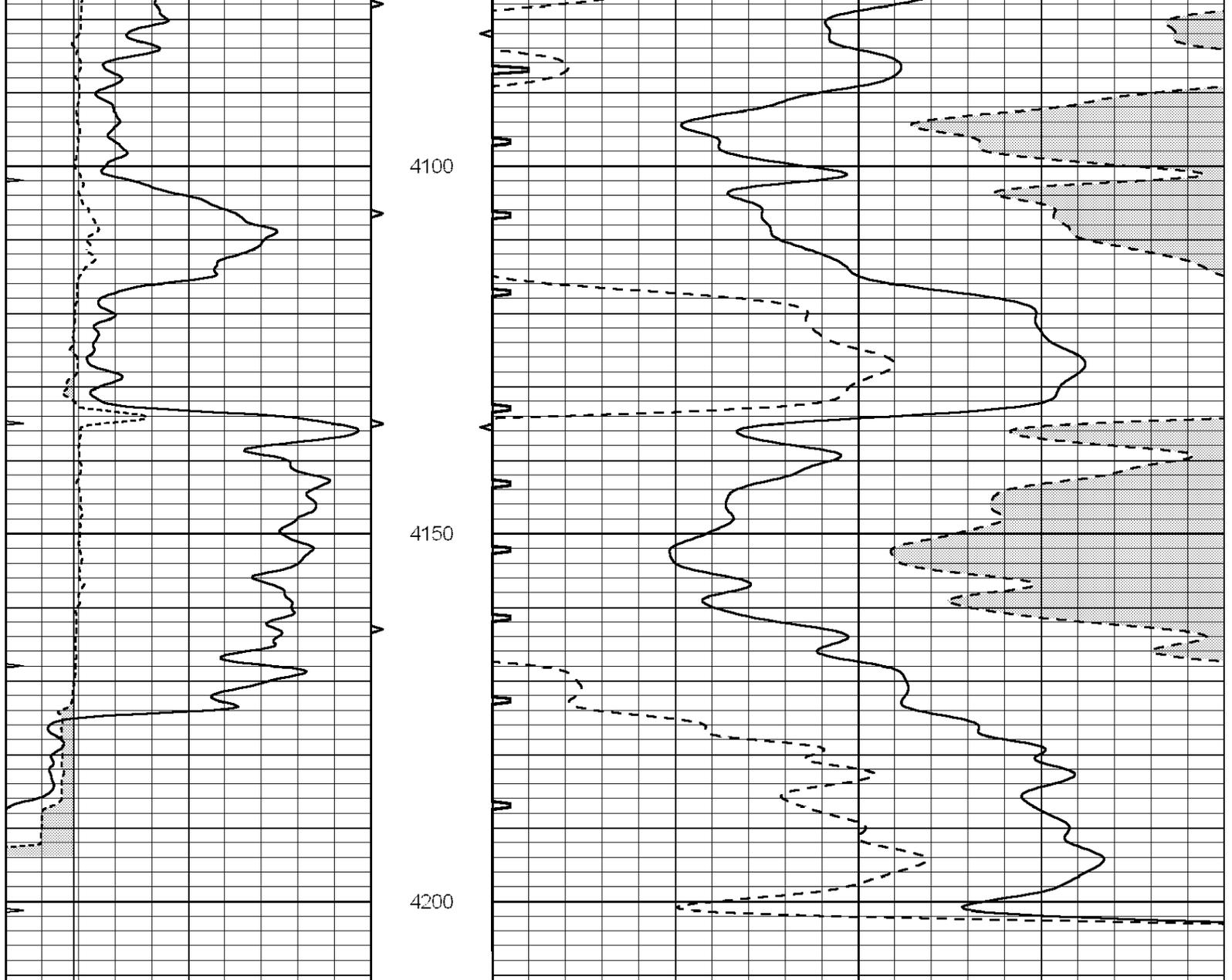




# REPEAT SECTION

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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		