



**SONIC  
LOG**

Company **DOWNING NELSON OIL COMPANY, INC.**  
 Well **CHARLENE C #1-17**  
 Field **CHARLENE**  
 County **RAWLINS** State **KANSAS**

Location: **API # : 15-153-21290-00-00**  
**2129' FNL & 908' FWL**  
**NW - SE - SW - NW**  
 SEC 17 TWP 5S RGE 36W  
 Permanent Datum **GROUND LEVEL Elevation 3347**  
 Log Measured From **KELLY BUSHING1' A.G.L**  
 Drilling Measured From **KELLY BUSHING**

Company **DOWNING NELSON OIL COMPANY, INC.**  
 Well **CHARLENE C #1-17**  
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Date	6/1/22
Run Number	TWO
Depth Driller	4955
Depth Logger	4954
Bottom Logged Interval	4946
Top Log Interval	400
Casing Driller	8 5/8"@486'
Casing Logger	482
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.1/62
PH / Fluid Loss	10.0/7.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	2.10@75F
Rmt @ Meas. Temp	1.58@75F
Rmc @ Meas. Temp	2.52@75F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	1.26@125F
Time Circulation Stopped	4 HOURS
Time Logger on Bottom	8:00 P.M.
Maximum Recorded Temperature	125F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	COLE ROBBEN
Witnessed By	MARC DOWNING

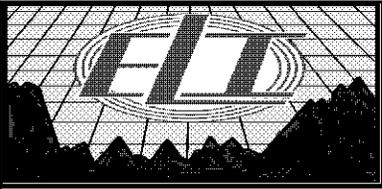
Other Services  
 CDL/CNL  
 DIL/MEL  
 Elevation  
 K.B. 3358  
 D.F. 3356  
 G.L. 3347

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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**

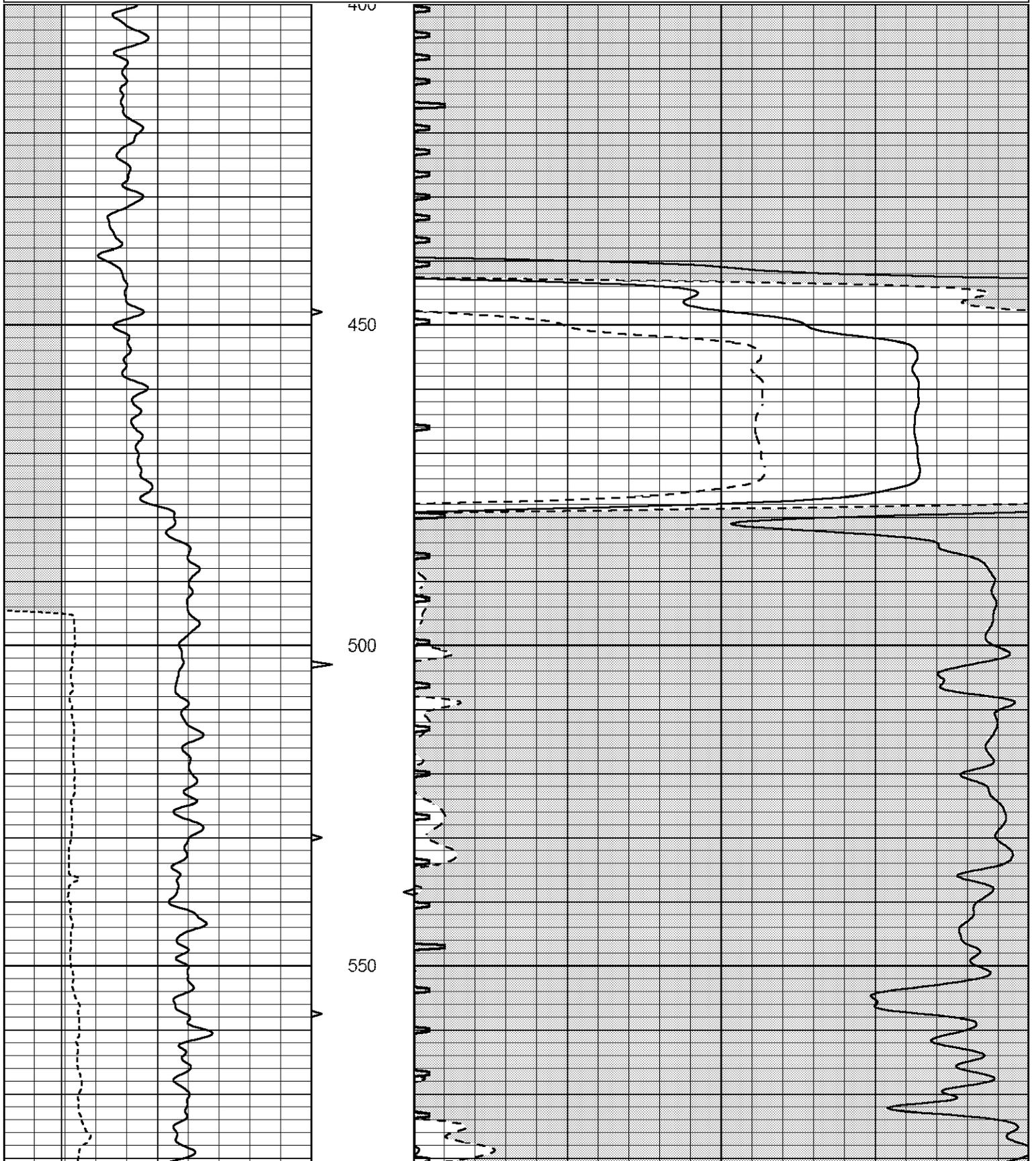
**THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. ( 785 ) 628-6395**  
**DIRECTIONS:**  
**BREWSTER, KS. NORTH ON BLACKTOP TO CURVE WEST, THEN 3 MILES NORTH,**  
**1/2 MILE WEST, AND NORTH INTO EAST OF TANK BATTERY**

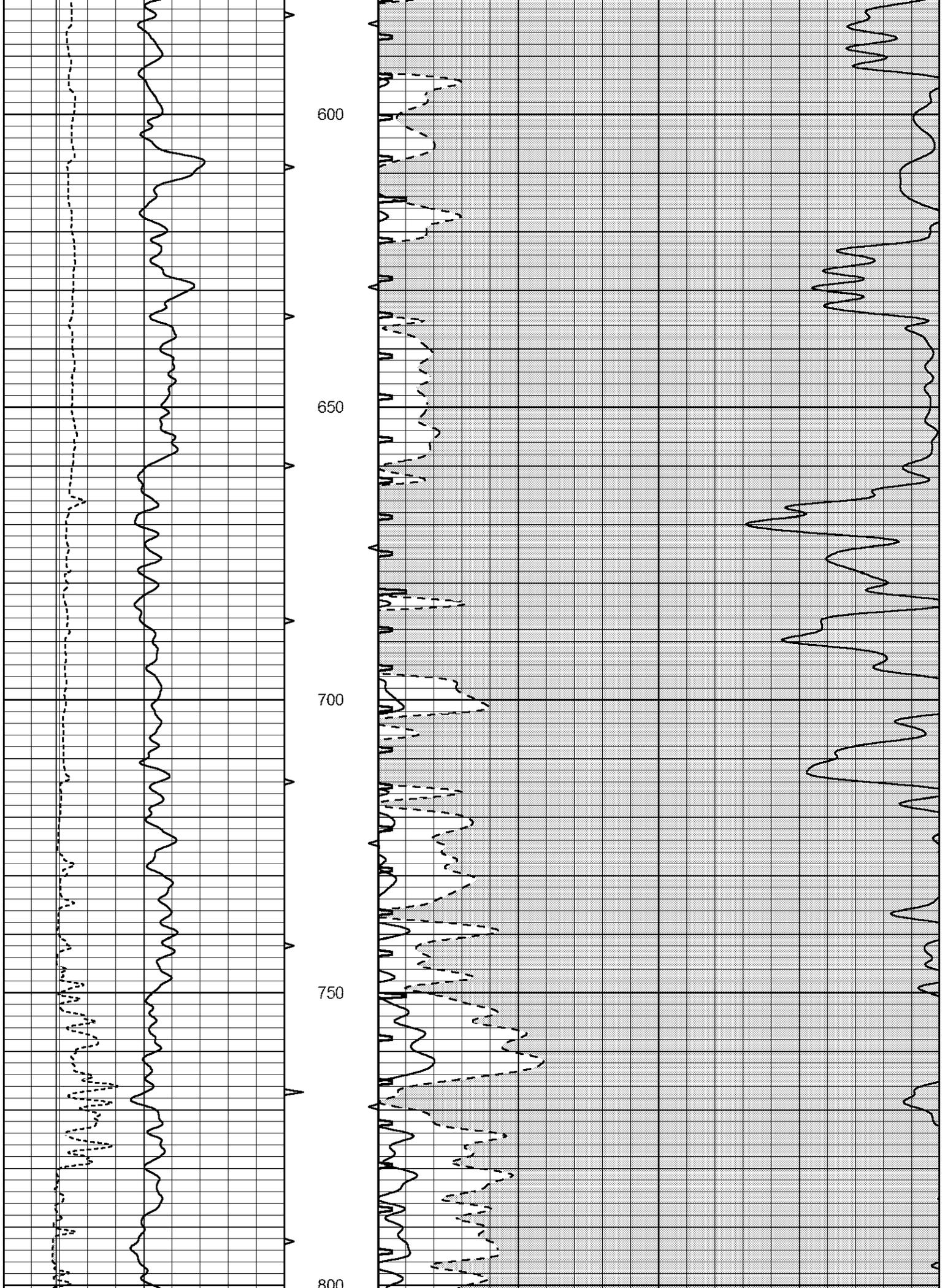


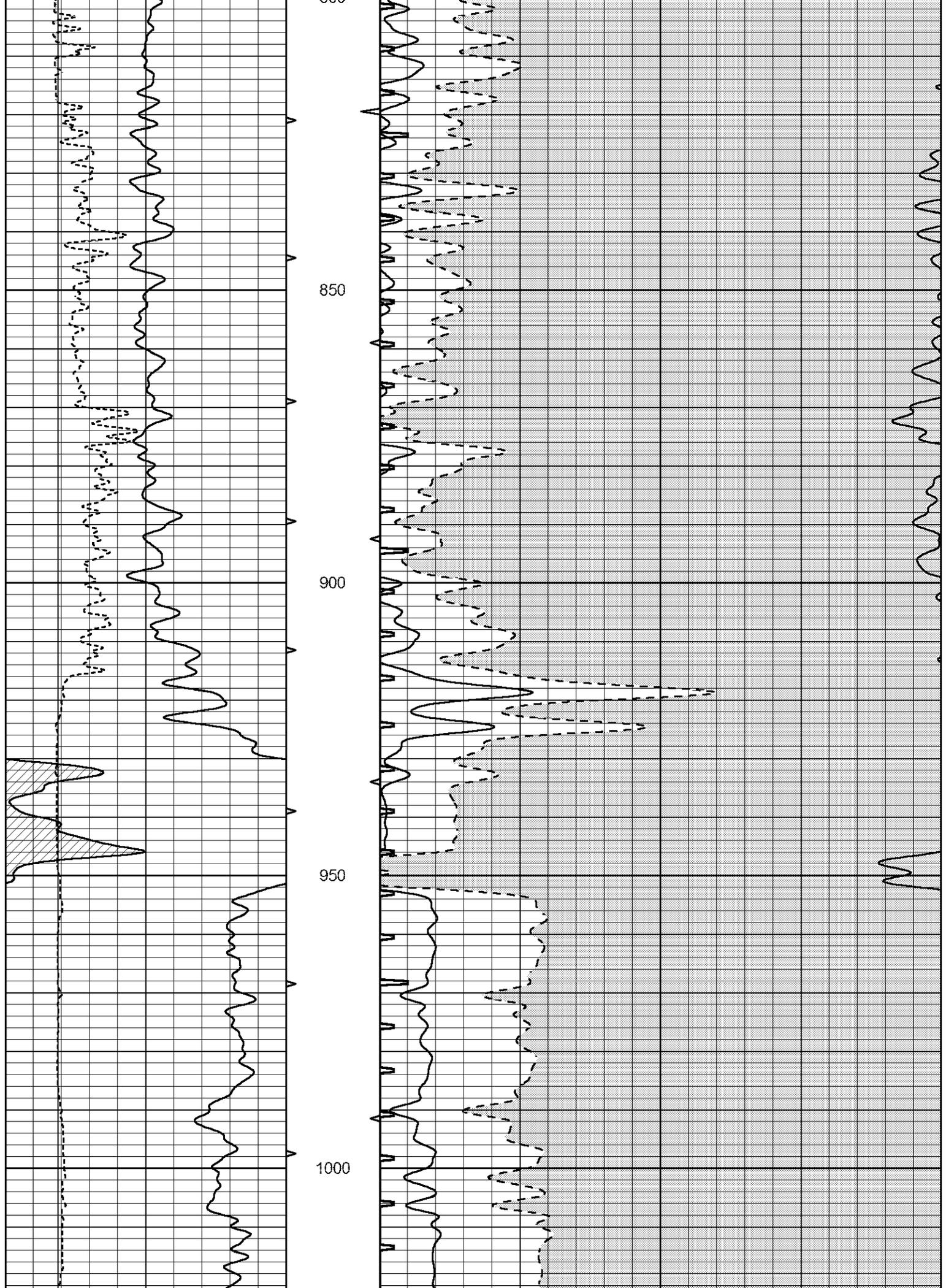
**MAIN SECTION**

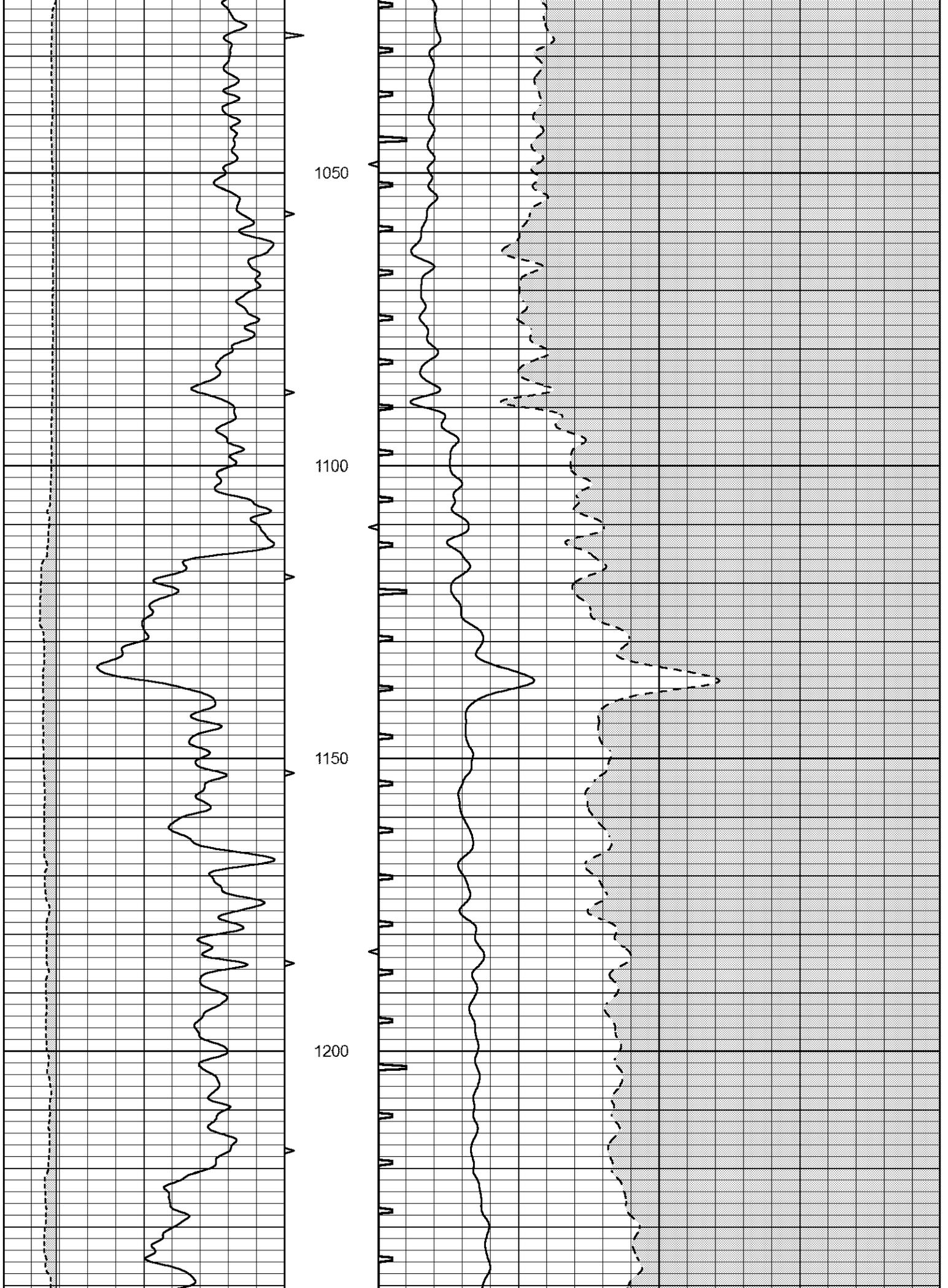
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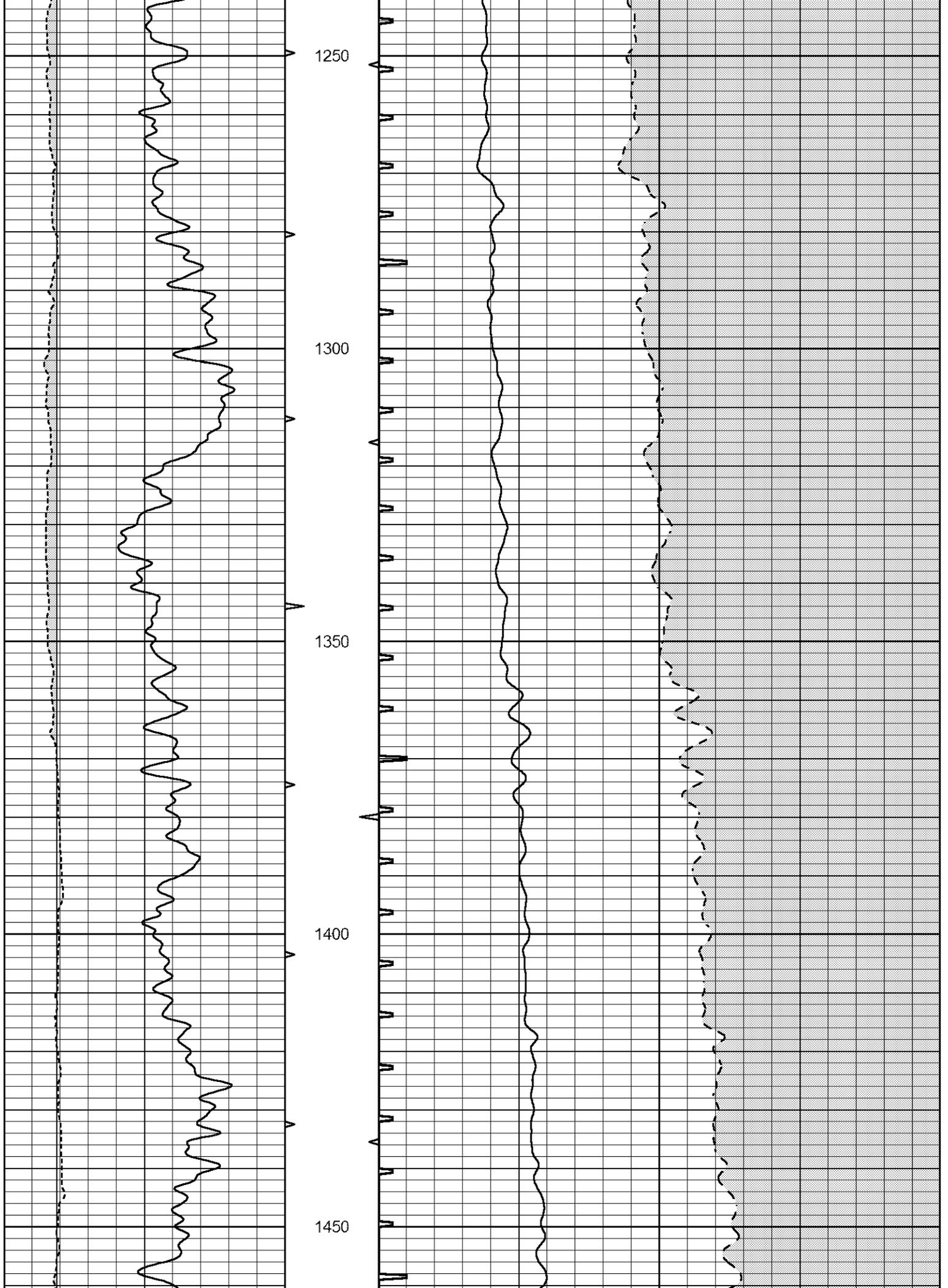
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6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)	-10
-----			TBHV	0	ITT (msec)	20	
			0 (ft3)	10			

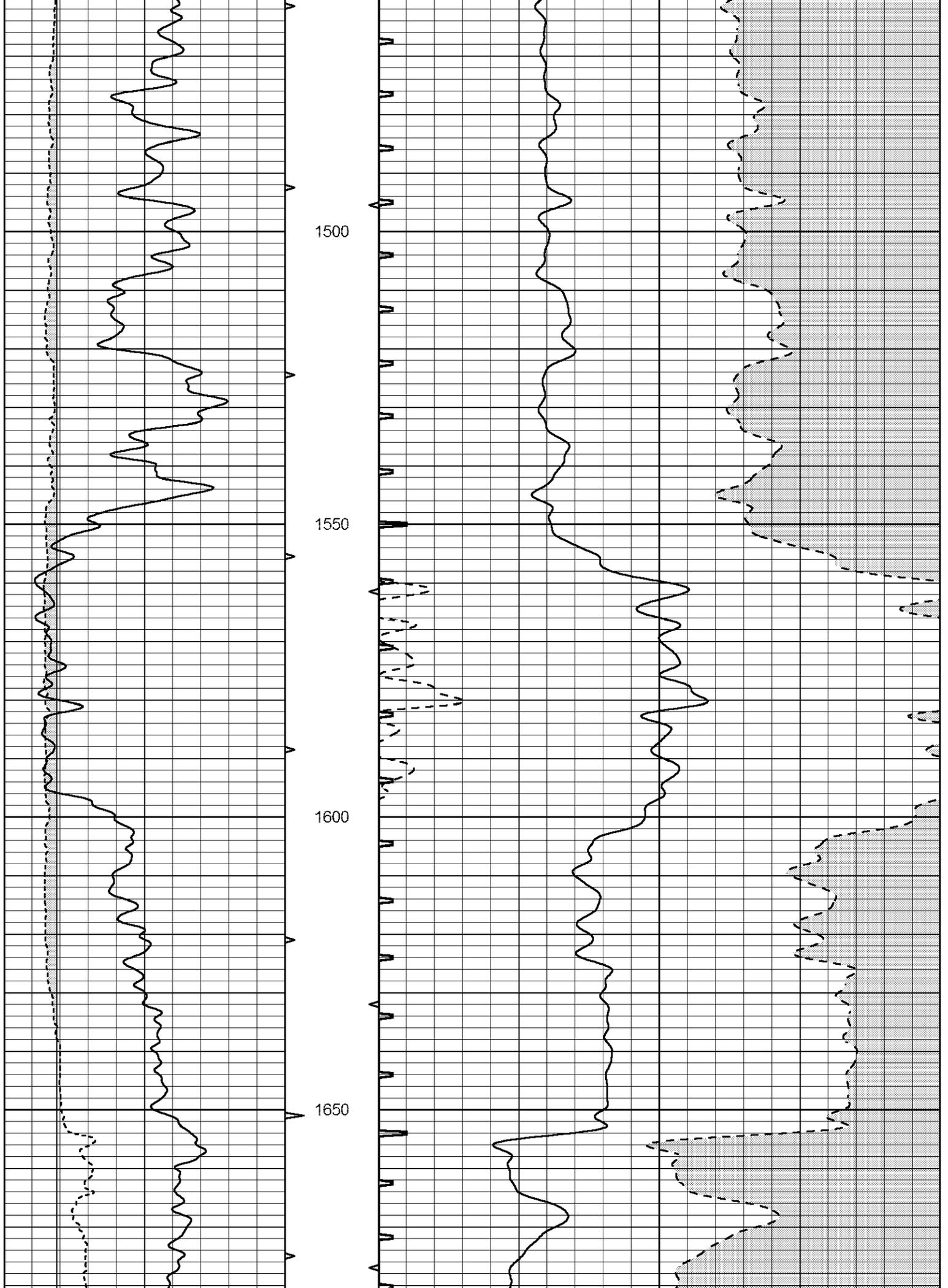


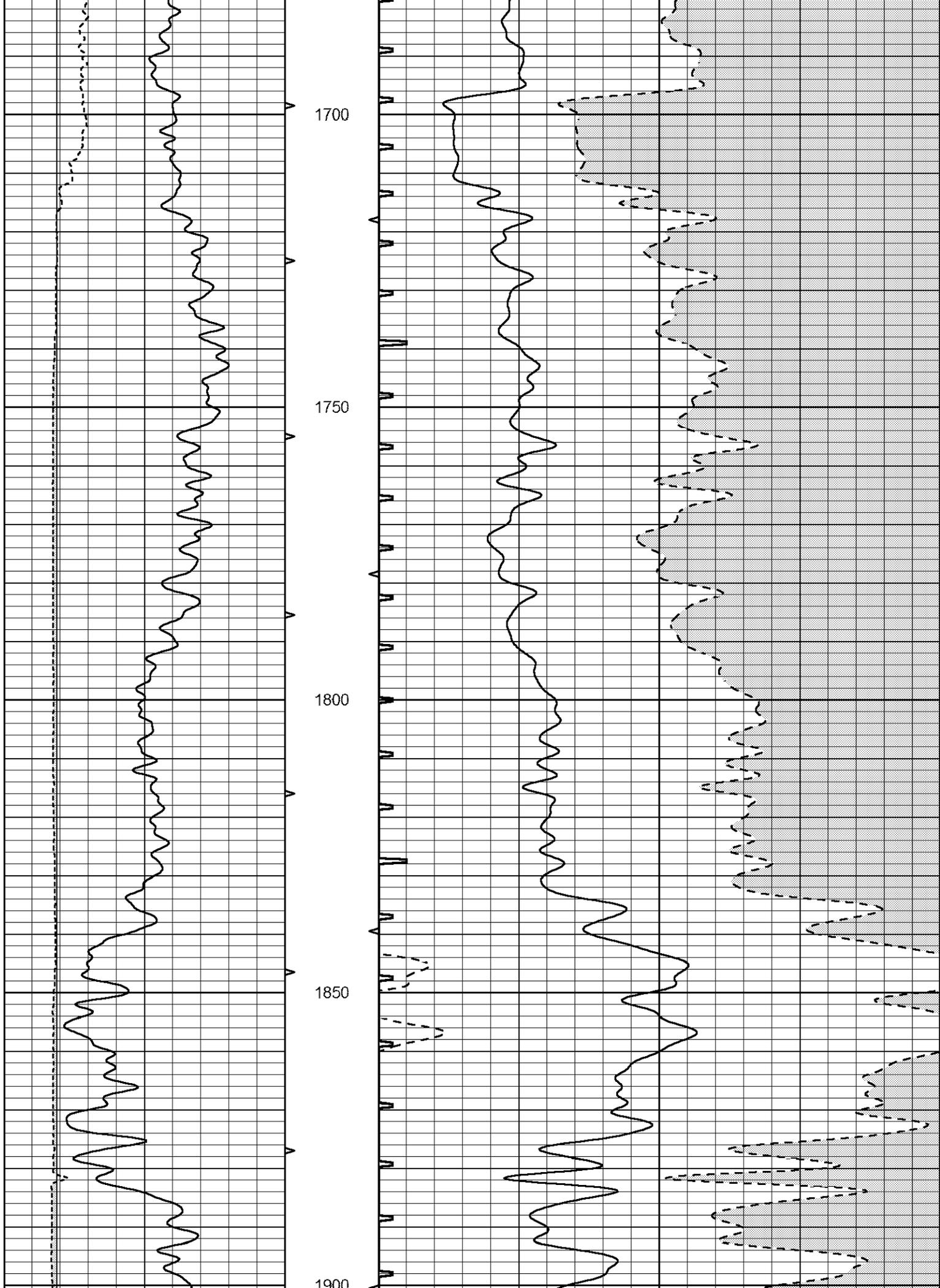


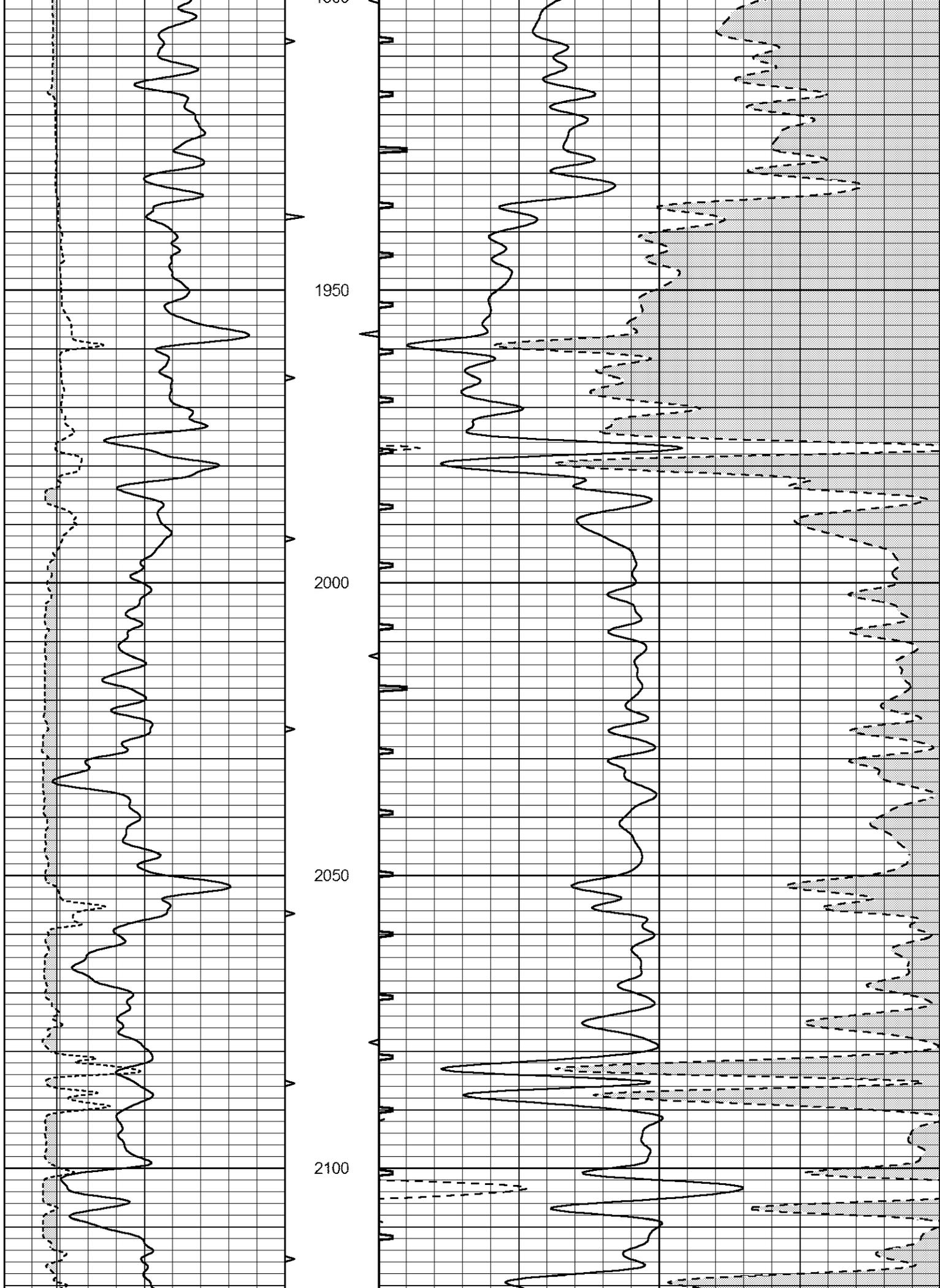


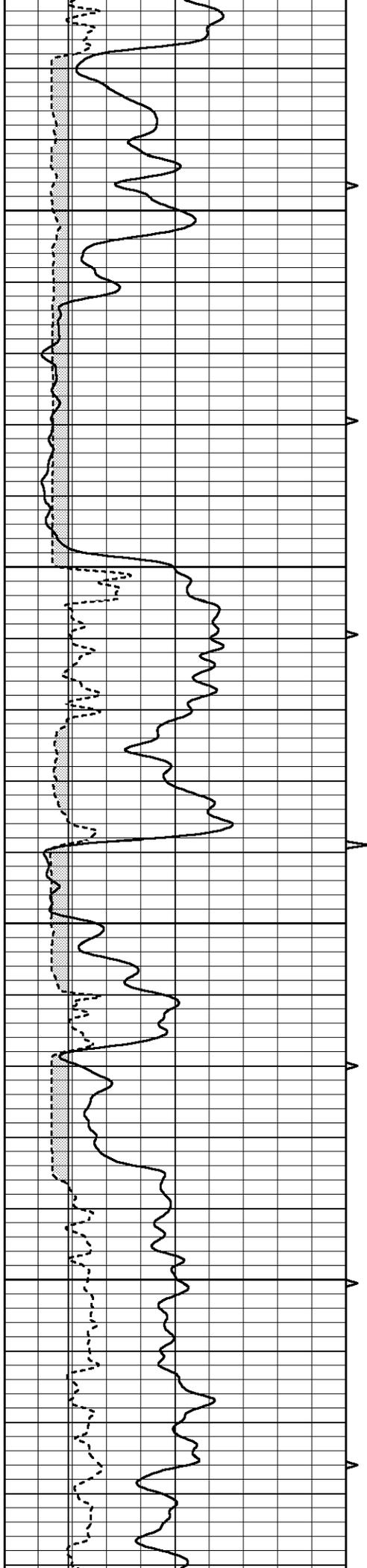










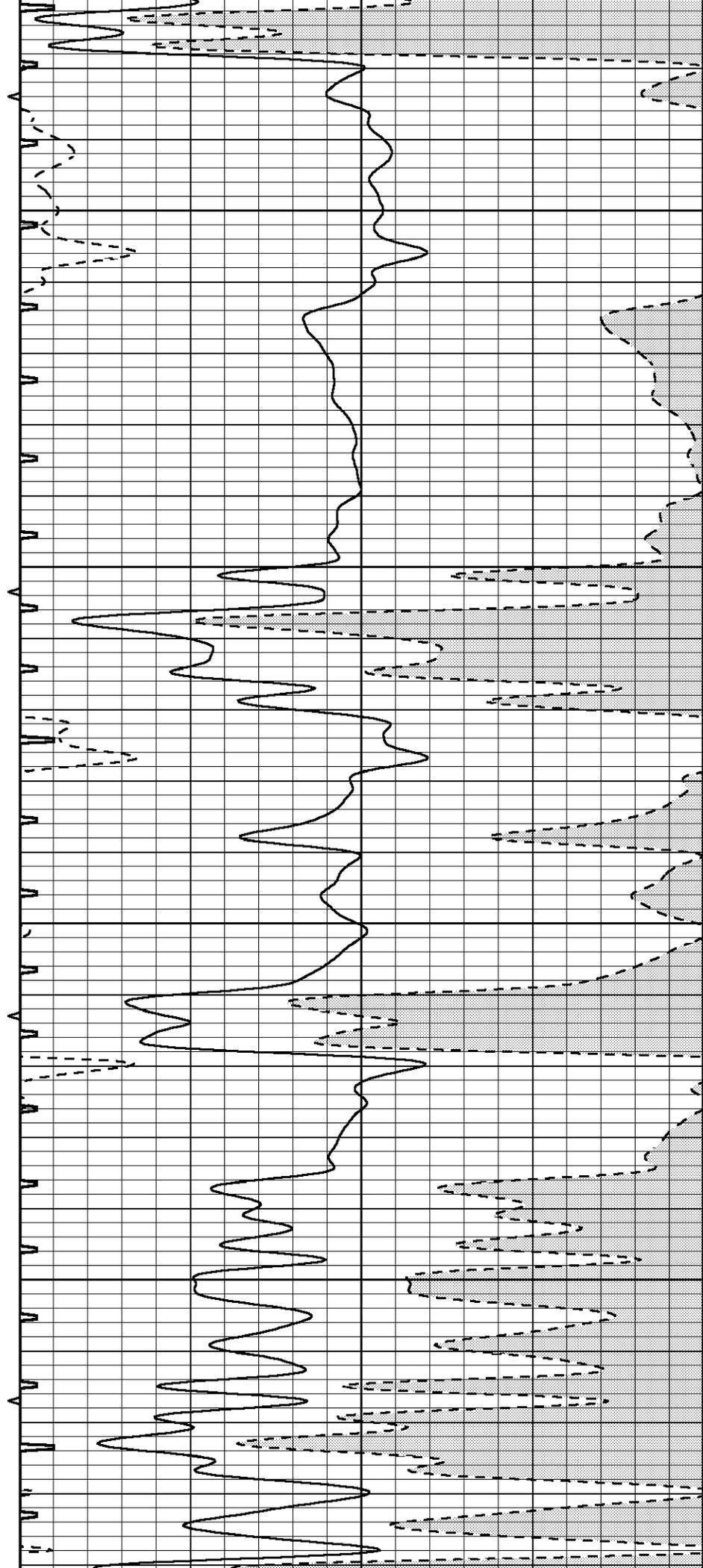


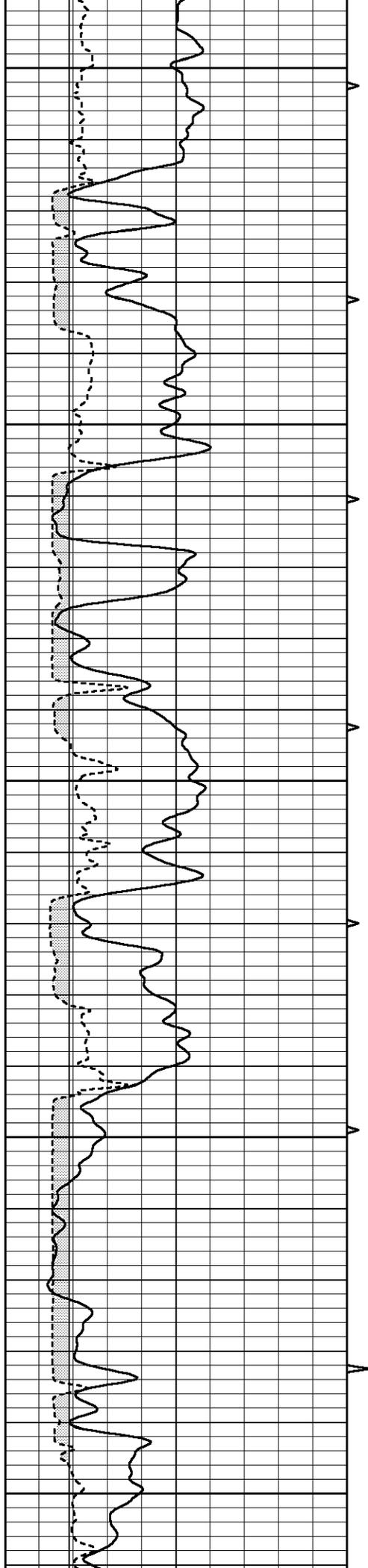
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2200

2250

2300





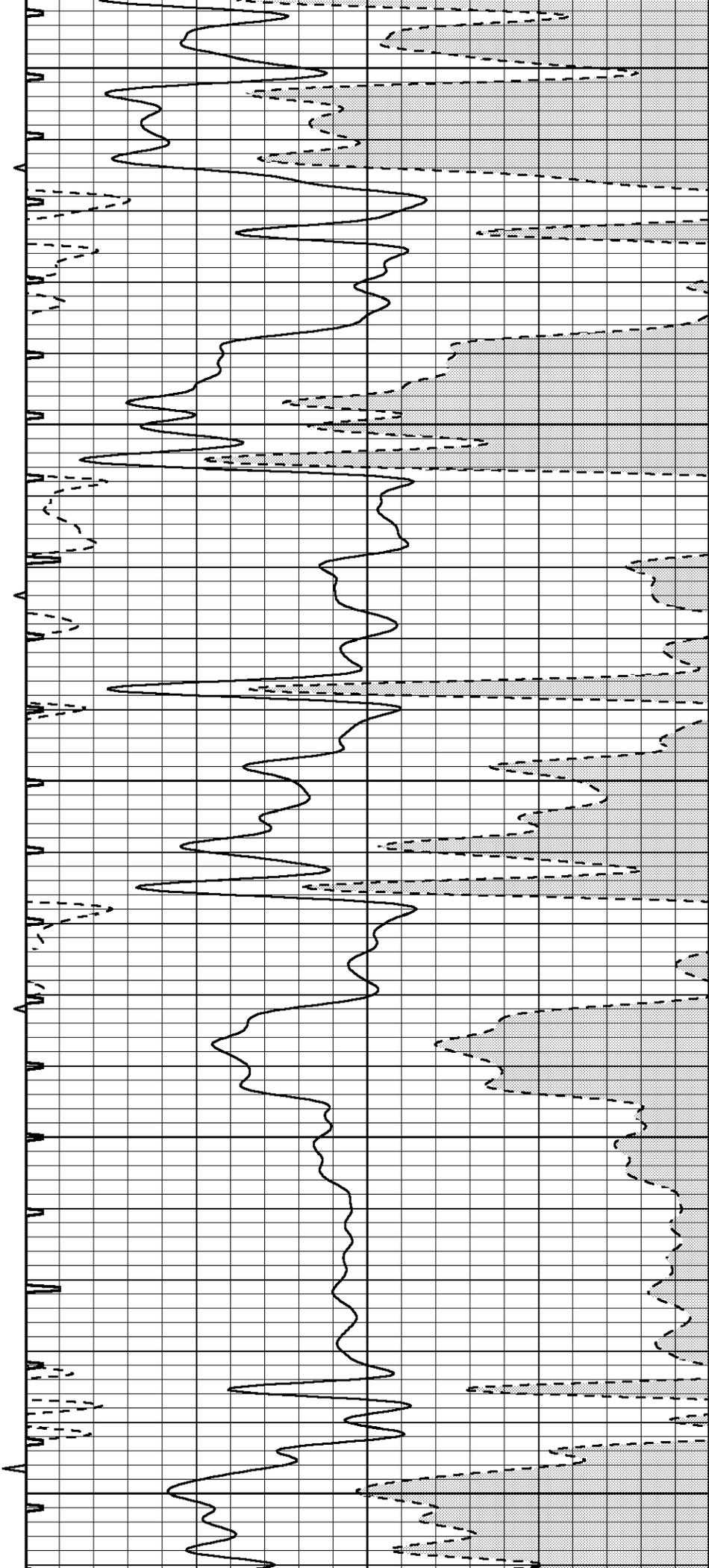
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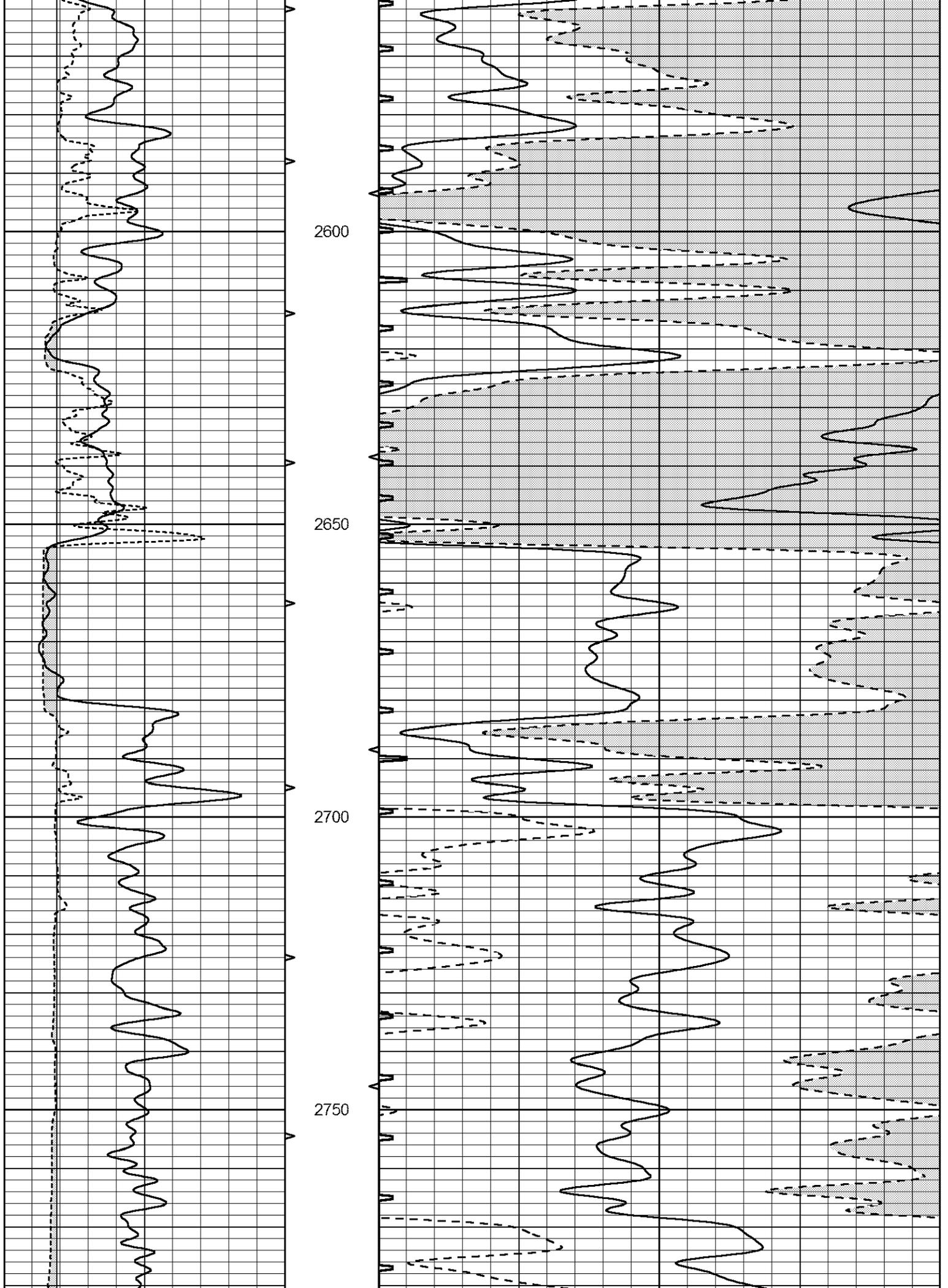
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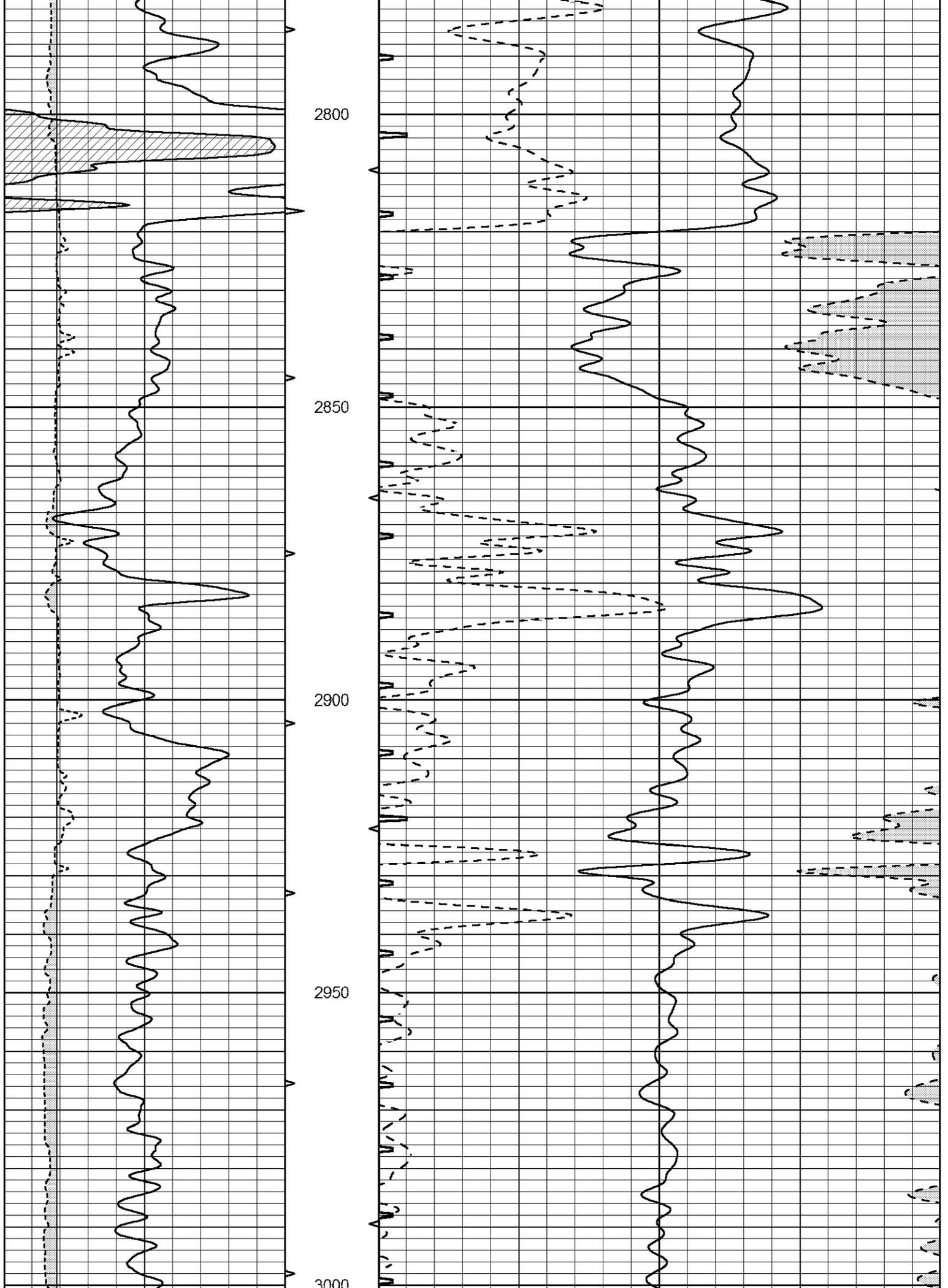
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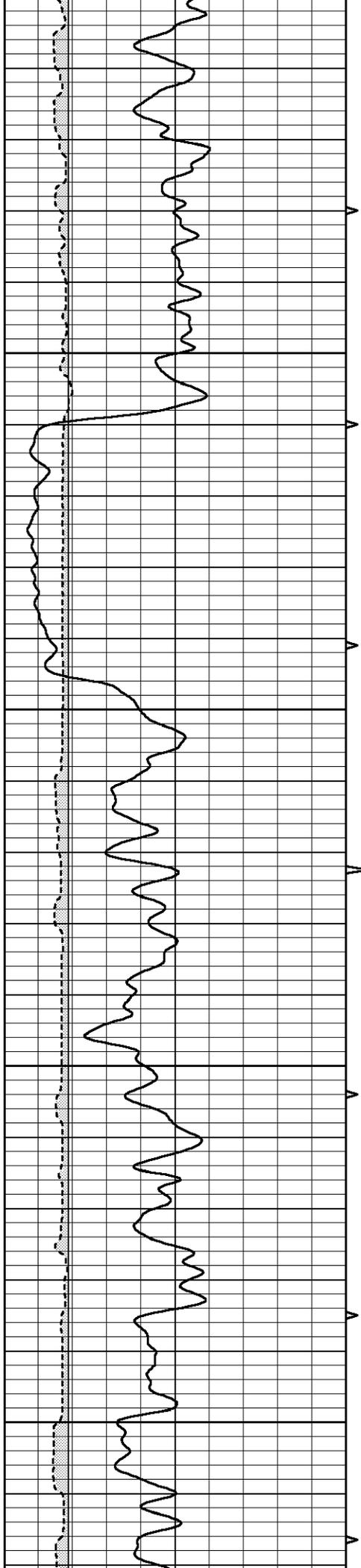
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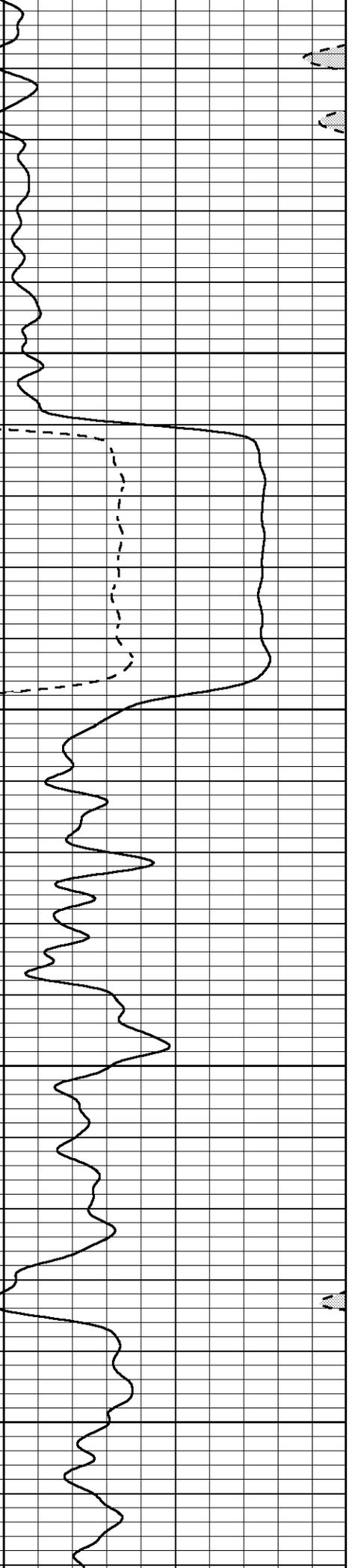
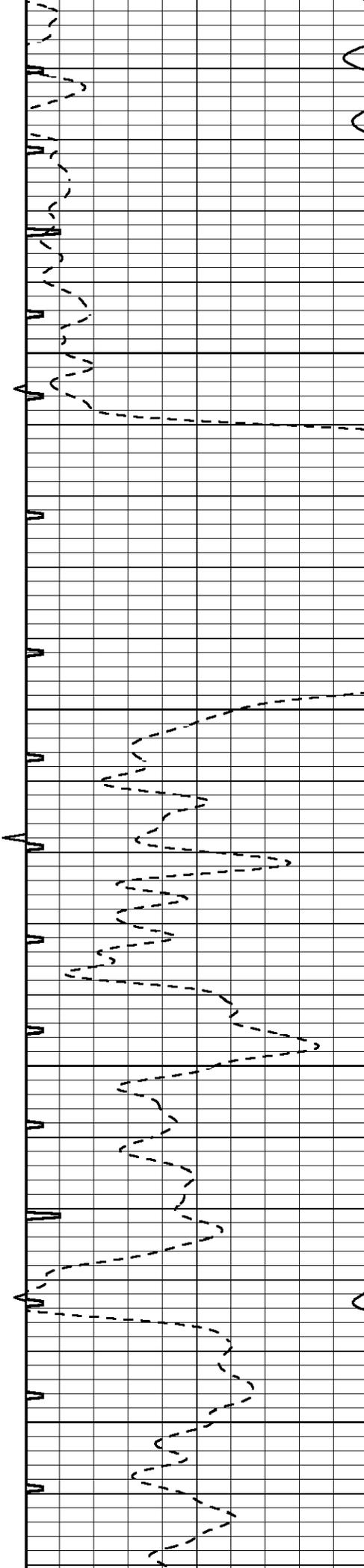


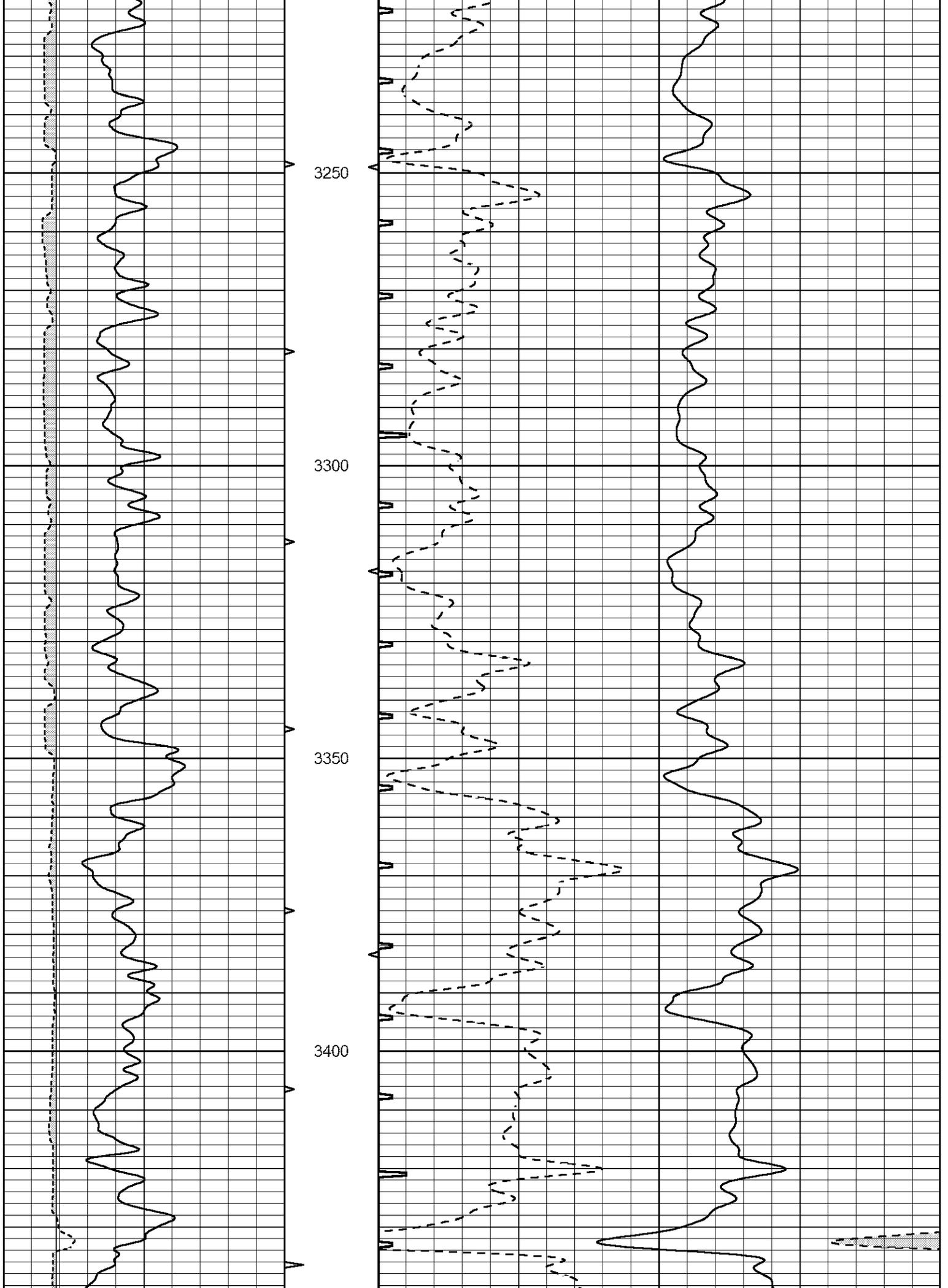


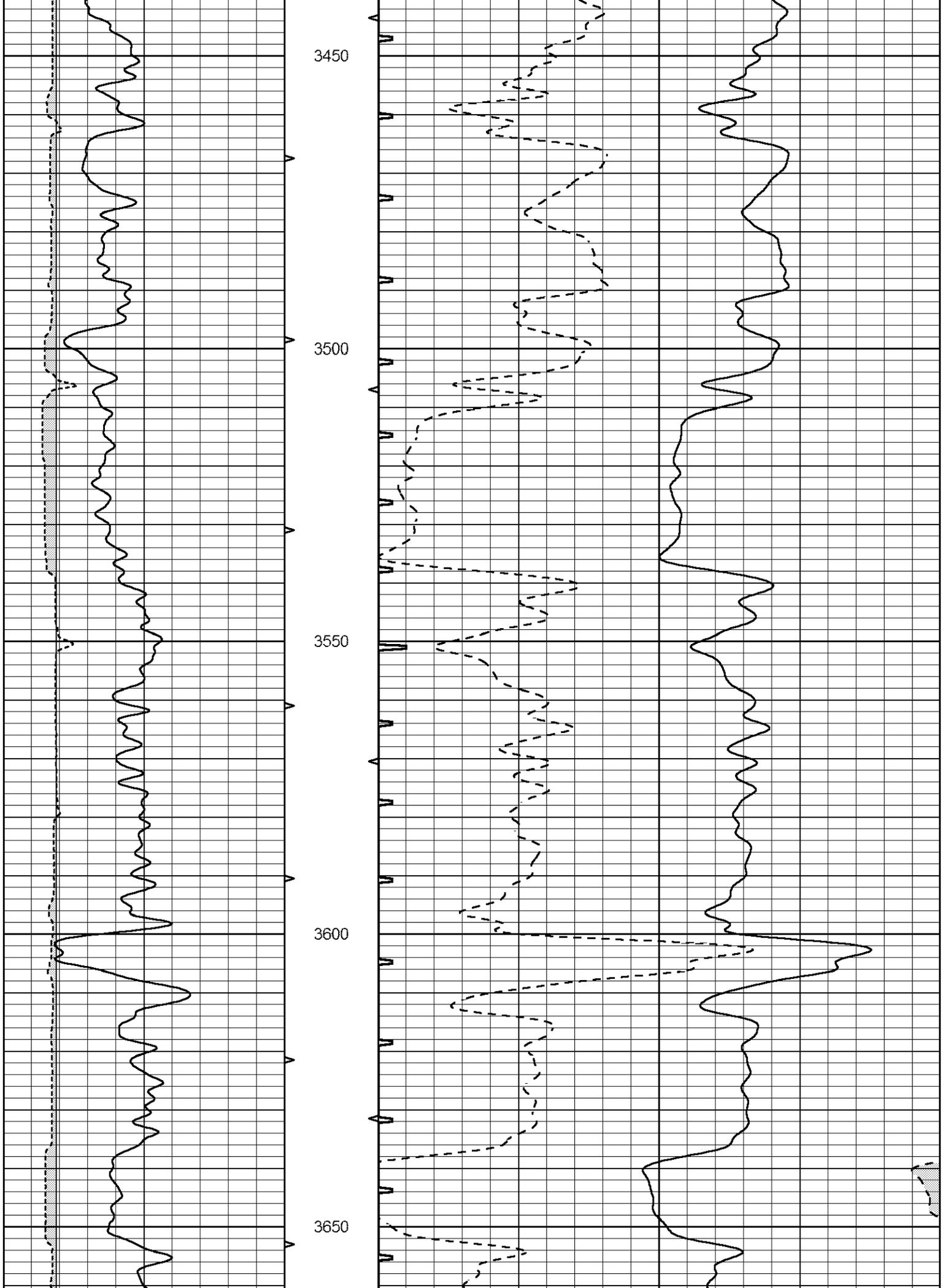


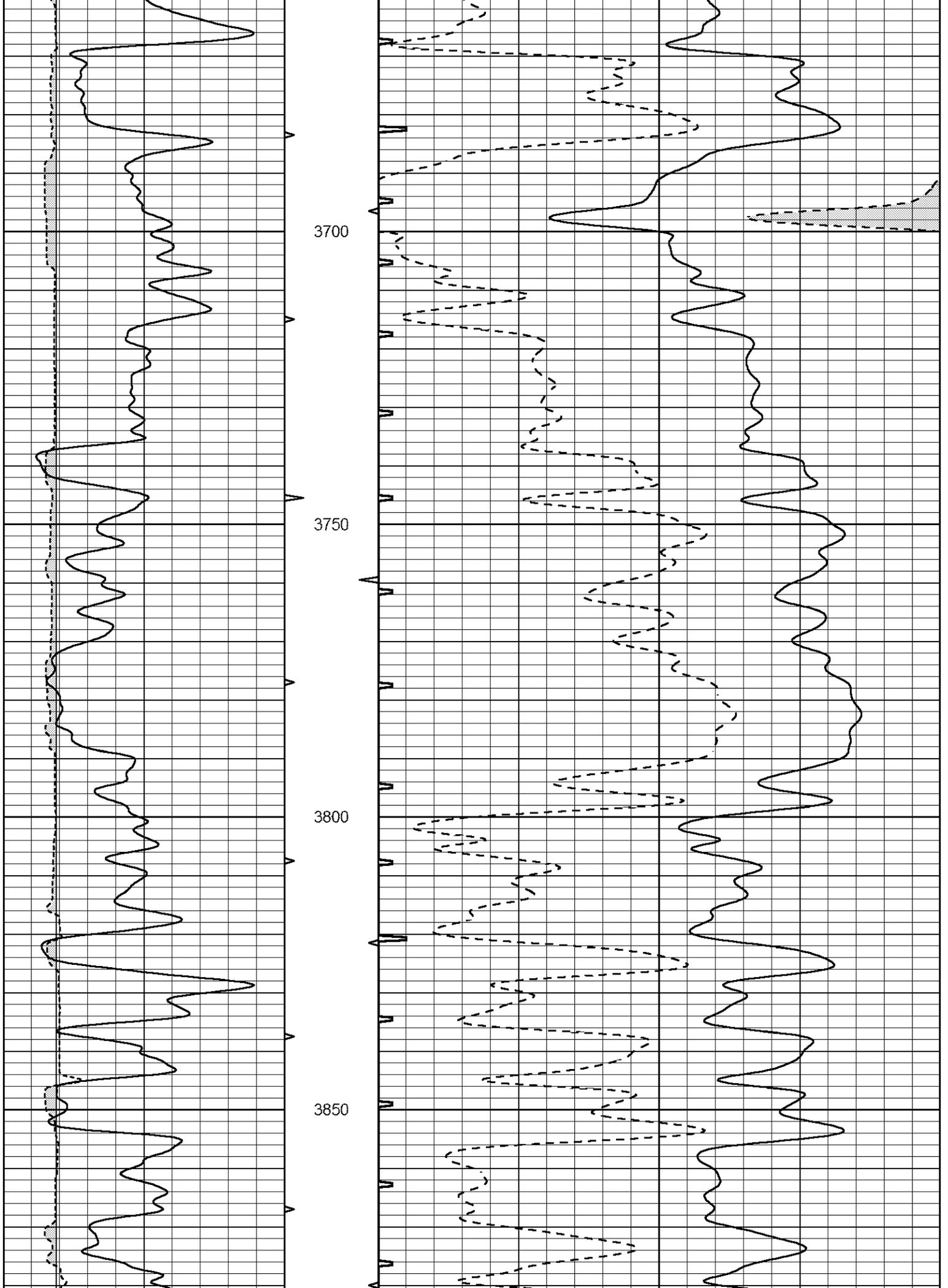


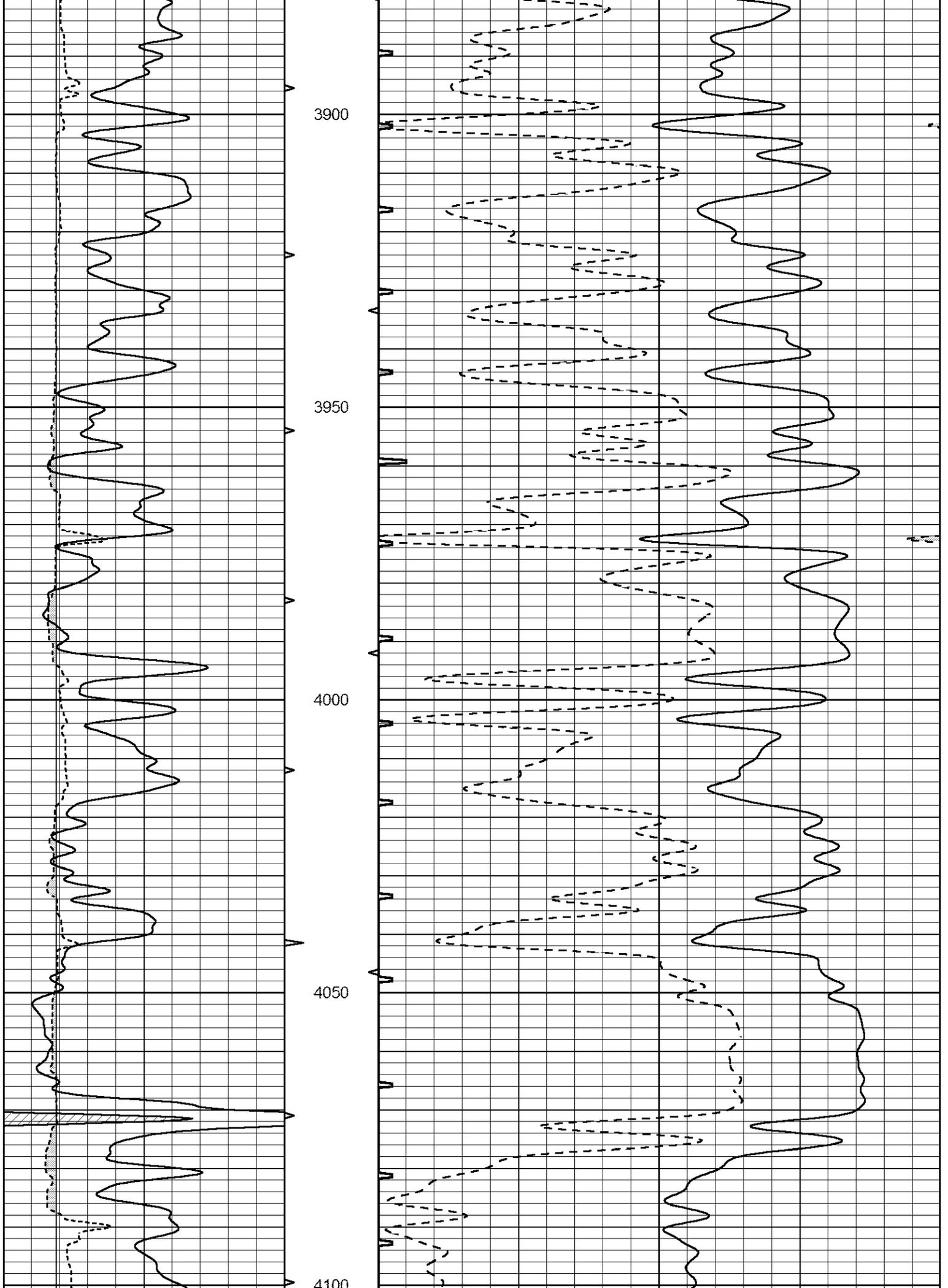
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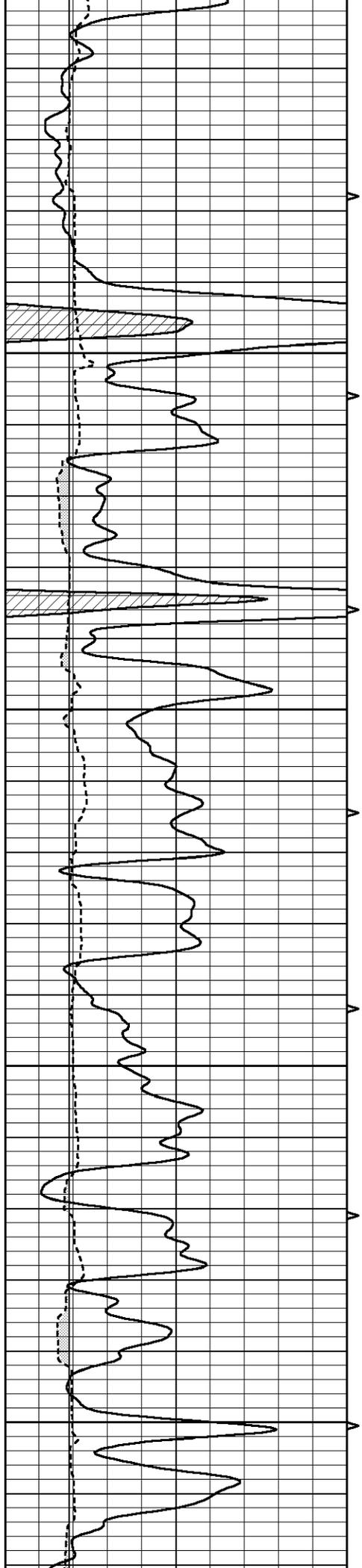




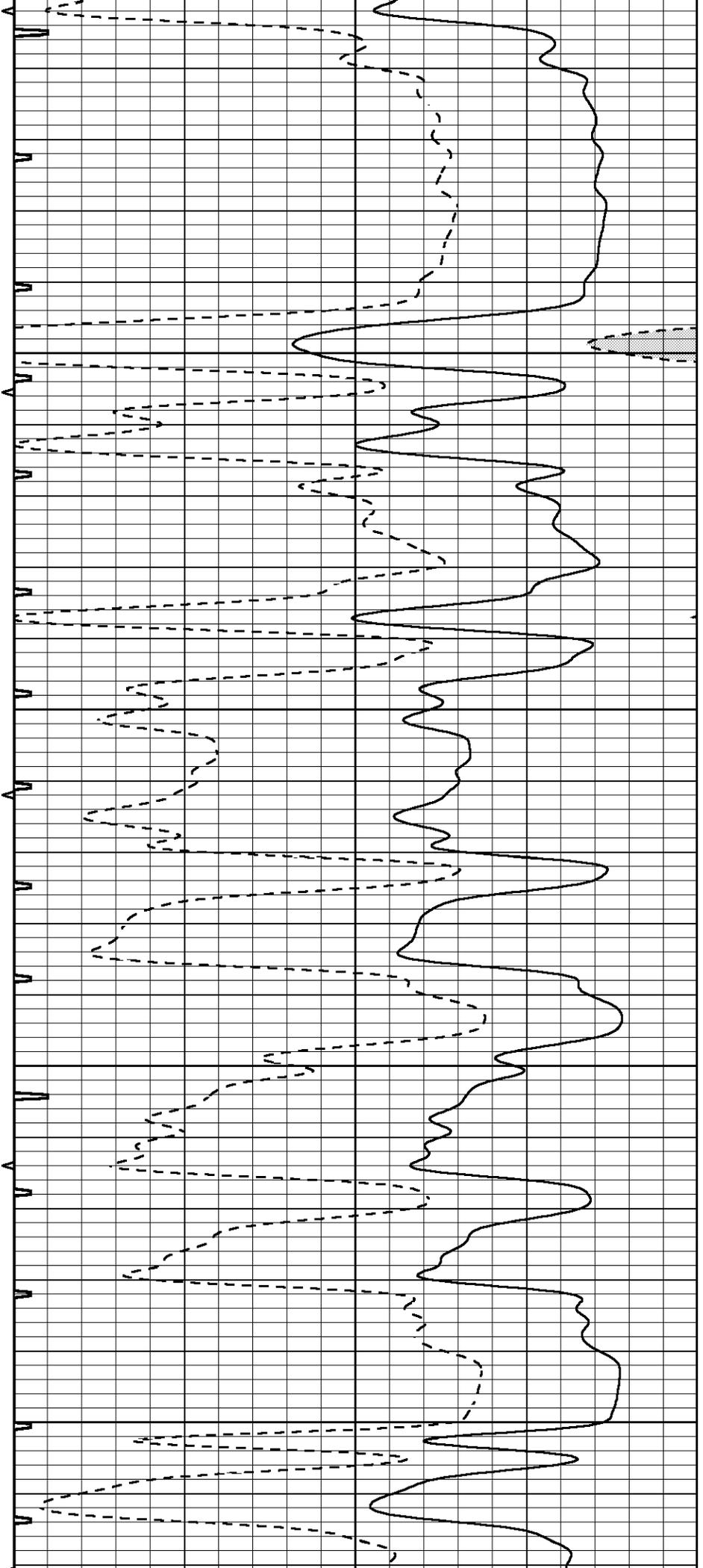


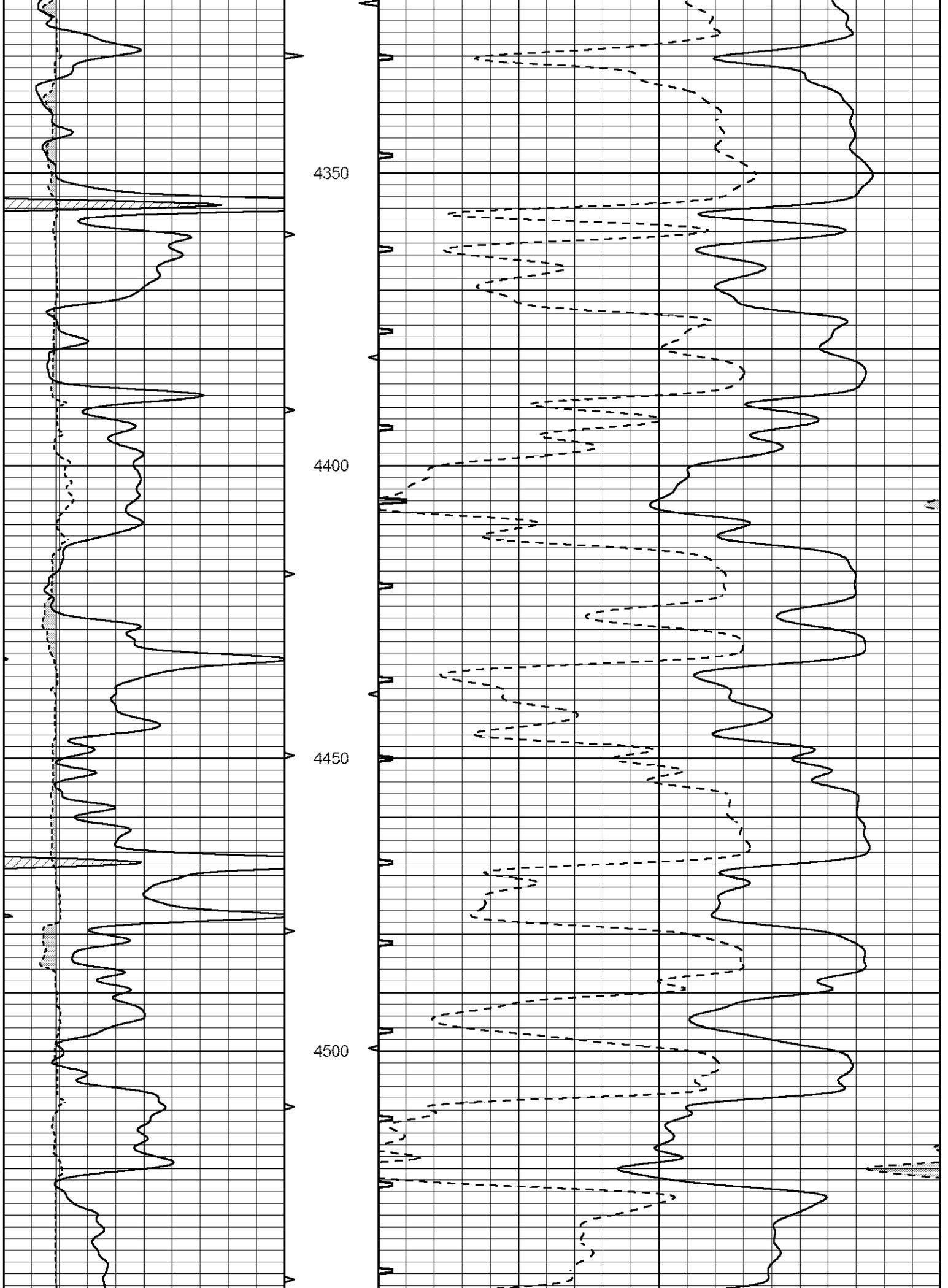


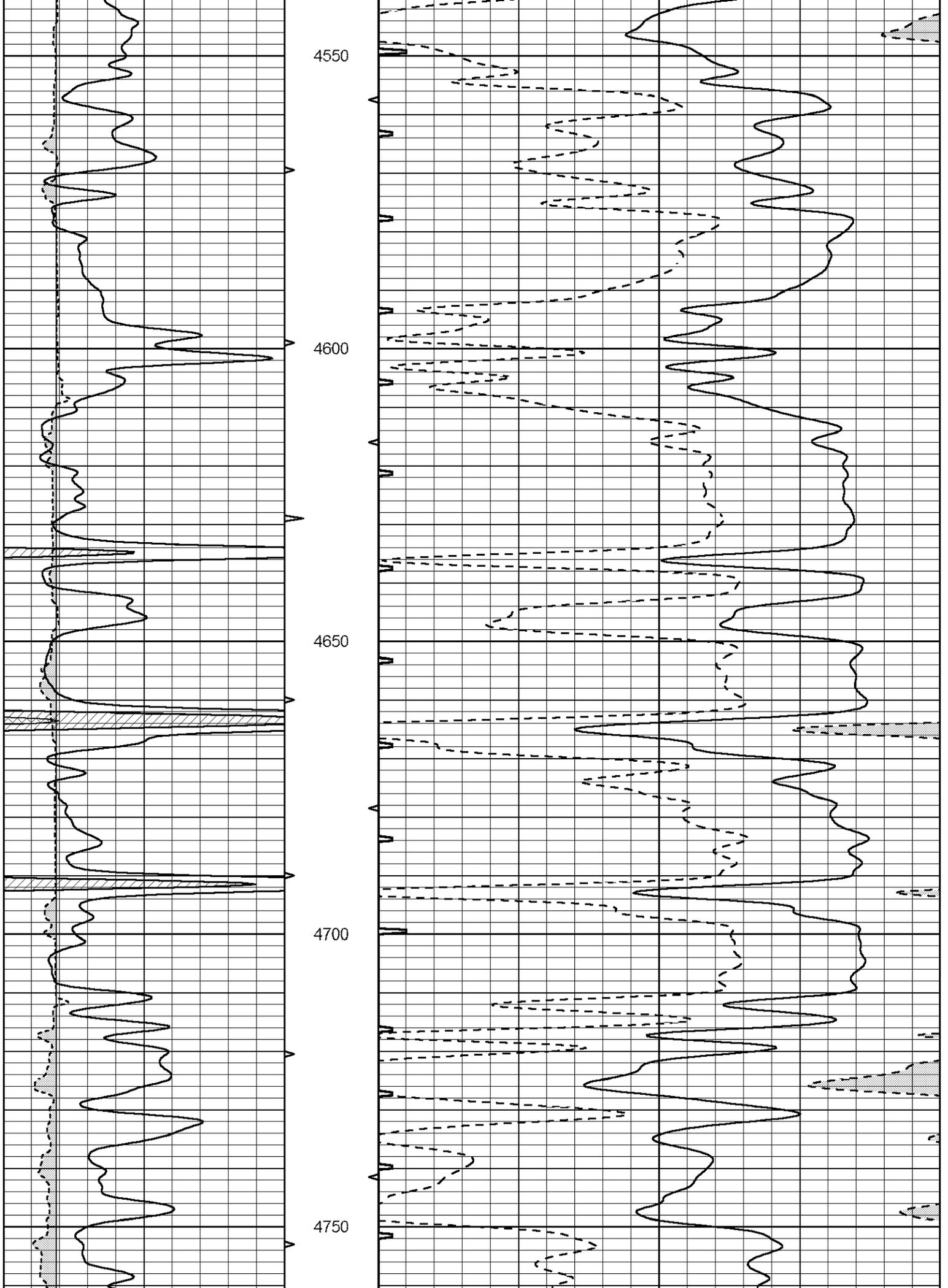


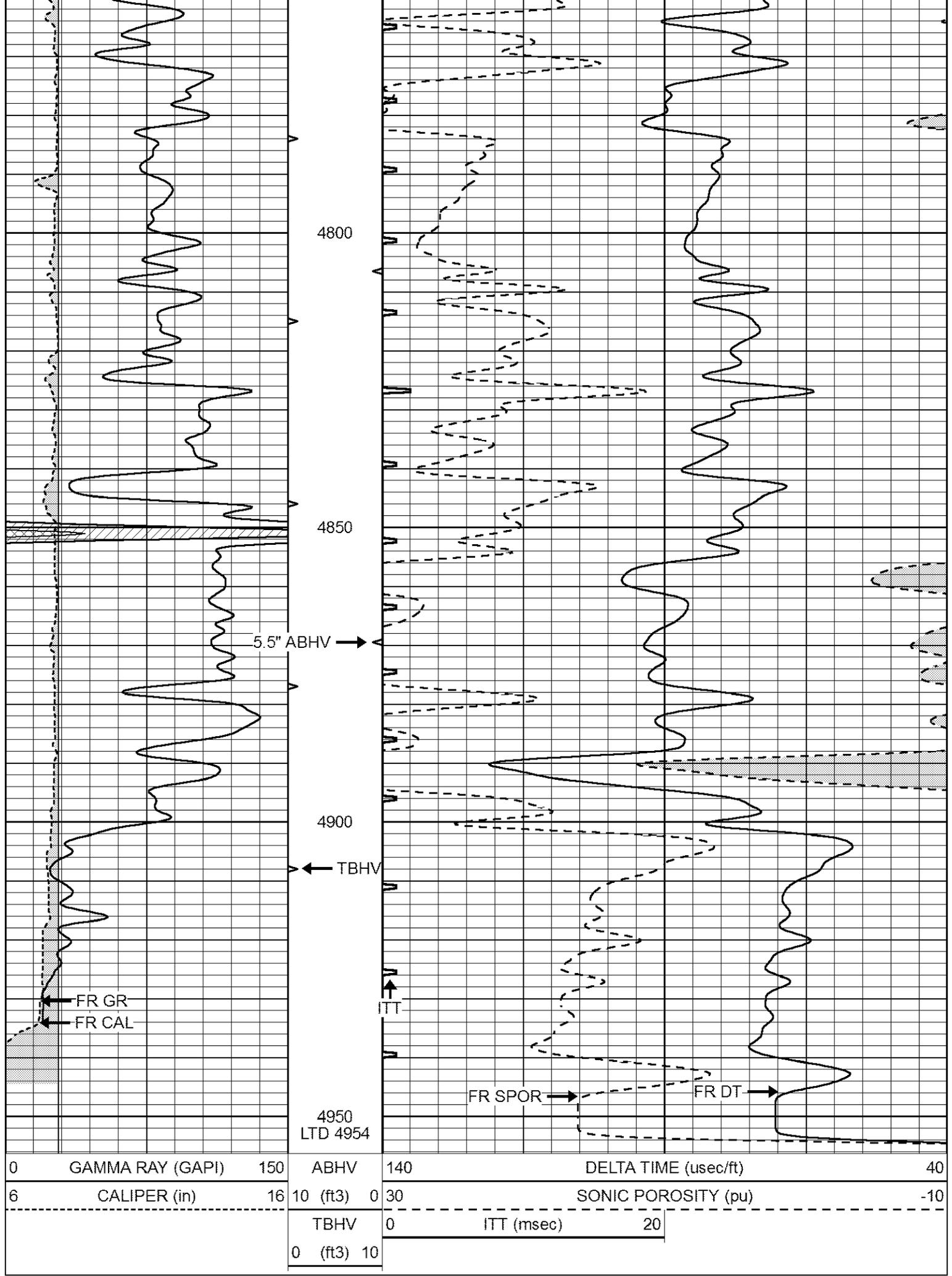


4100  
4150  
4200  
4250  
4300









4800

4850

4900

4950  
LTD 4954

5.5" ABHV →

← TBHV

↑ ITT

FR SPOR →

FR DT →

GAMMA RAY (GAPI)

ABHV

DELTA TIME (usec/ft)

CALIPER (in)

TBHV

ITT (msec)

SONIC POROSITY (pu)

(ft)

0 150

6 16

0 10

10 (ft) 0

0 20

140 40

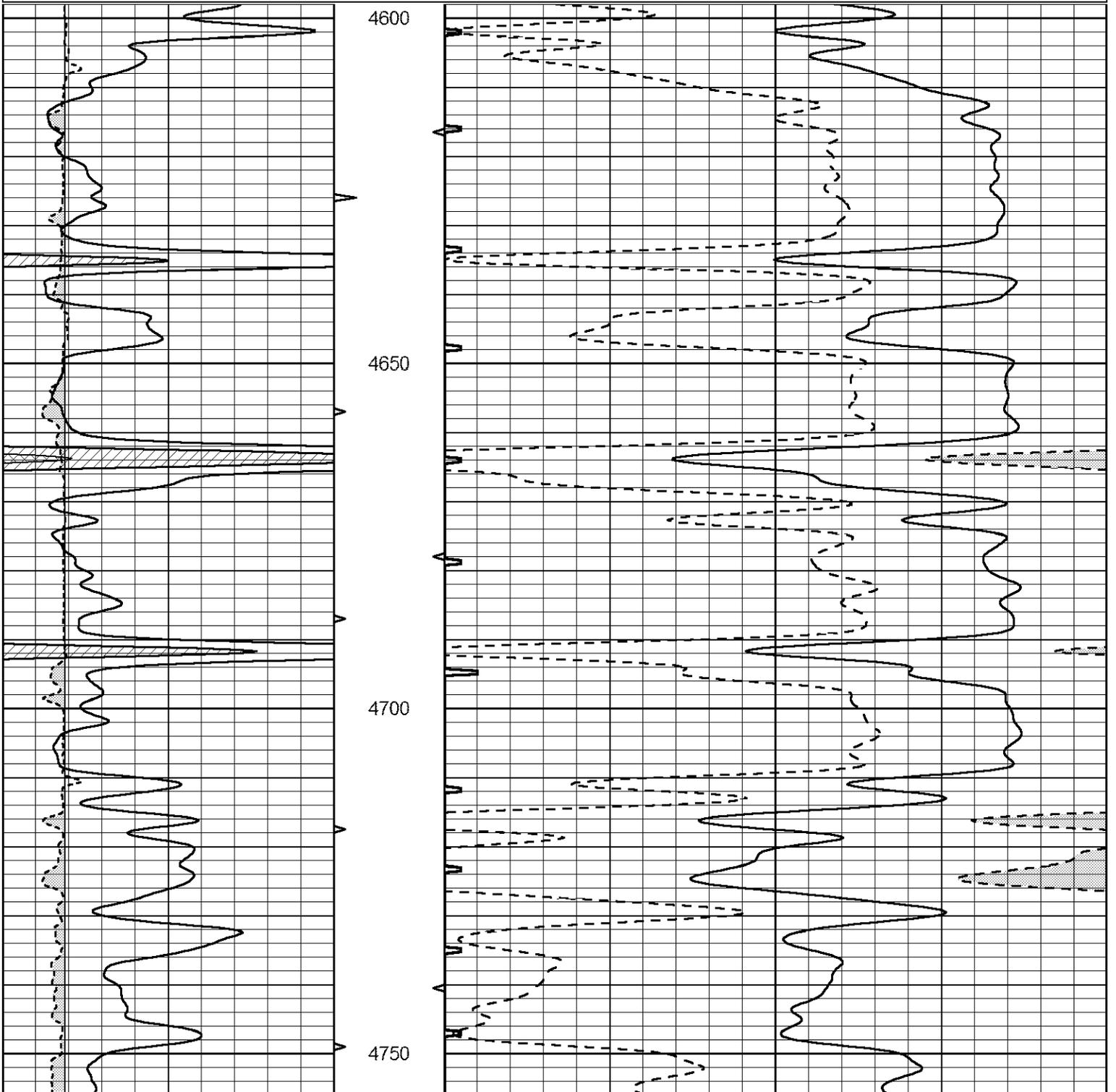
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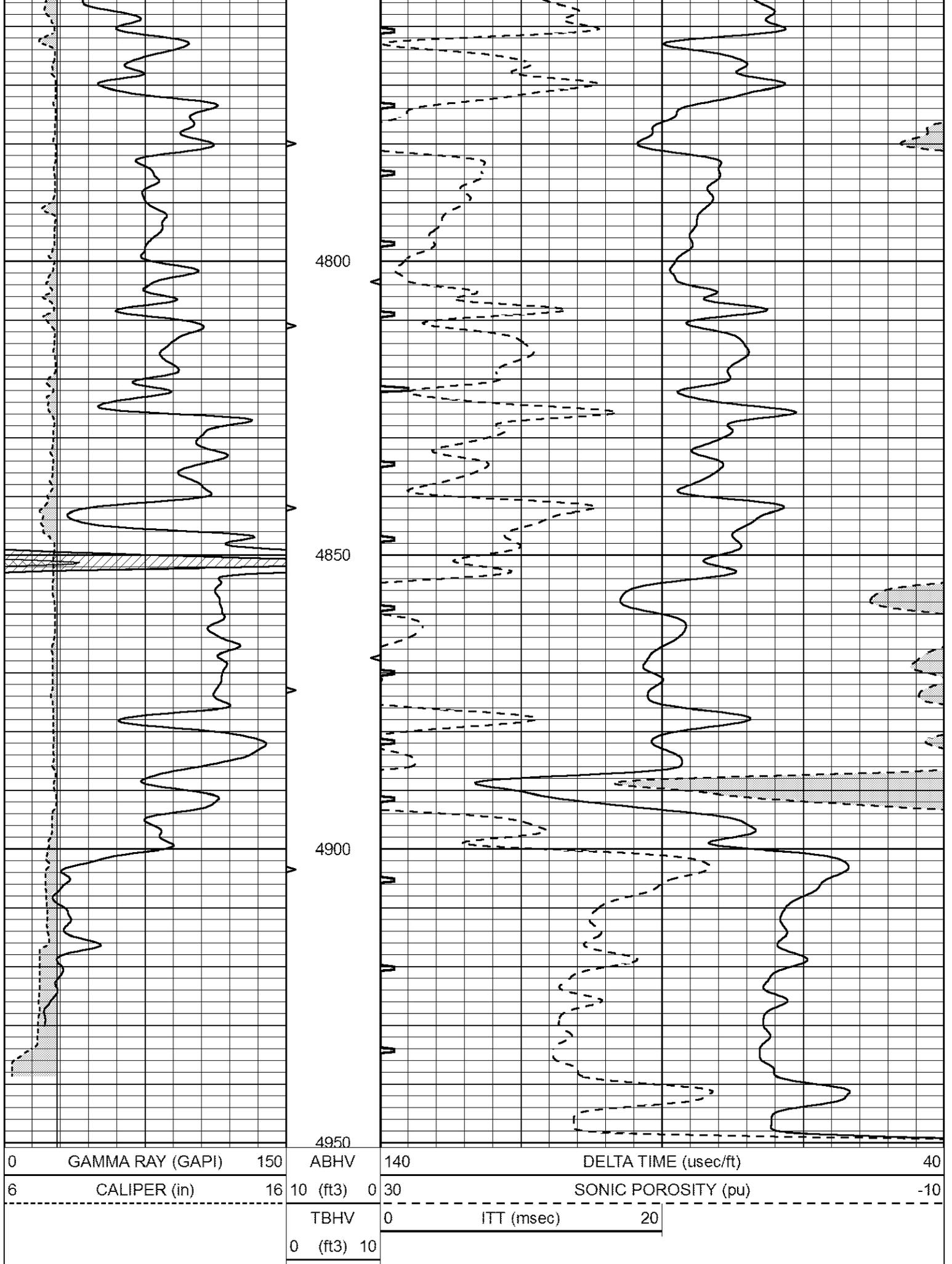


# REPEAT SECTION

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





4800

4850

4900

4950

0 GAMMA RAY (GAPI) 150

6 CALIPER (in) 16

ABHV 140  
0 (ft3) 30  
TBHV 0  
0 (ft3) 10

DELTA TIME (u sec/ft) 40

SONIC POROSITY (pu) -10

ITT (msec) 20