



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company		L.D. DRILLING INC.	
Well		BARNES #1-21	
Field		WILDCAT	
County		BARTON	
State		KANSAS	
Location:		APL # : 15-009-26044-00-00	
Permanent Datum		GROUND LEVEL Elevation 1926	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 21 TWP 18S RGE 14W		Other Services CNL/CDL DIL/MEL	
Date		11/10/14	
Run Number		TWO	
Depth Driller		3463	
Depth Logger		3457	
Bottom Logged Interval		3447	
Top Log Interval		880	
Casing Driller		8 5/8" @ 914'	
Casing Logger		914'	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.2/5.1	
pH / Fluid Loss		10.0/8.8	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		.80 @ 60F	
Rmt @ Meas. Temp		.60 @ 60F	
Rmc @ Meas. Temp		.96 @ 60F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		.43 @ 111F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		111F	
Maximum Recorded Temperature		4010	
Equipment Number		HAYS, KANSAS	
Location		IAN MABB	
Recorded By		KURT TALBOTT	
Witnessed By			

<<< Fold Here >>>

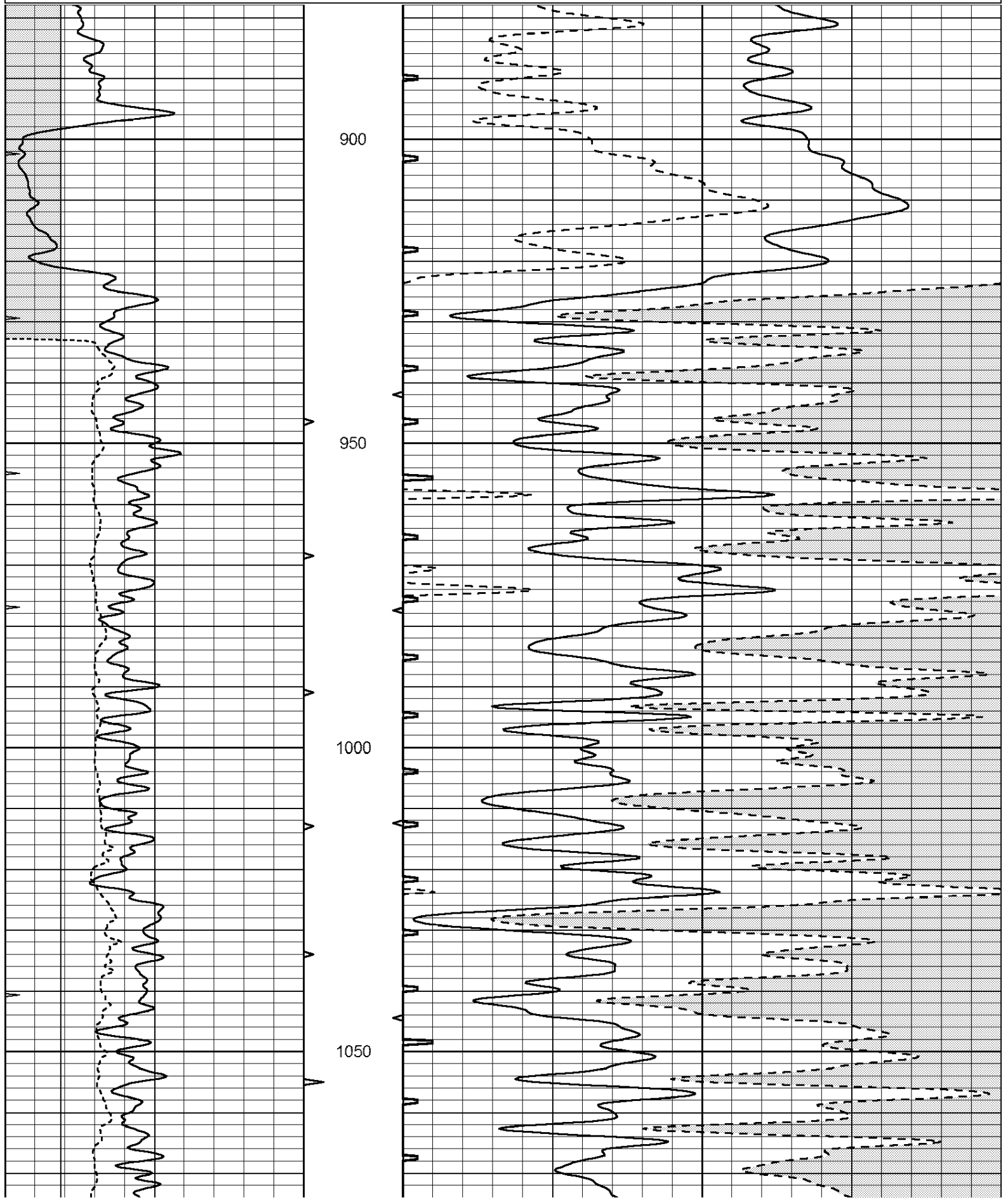
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

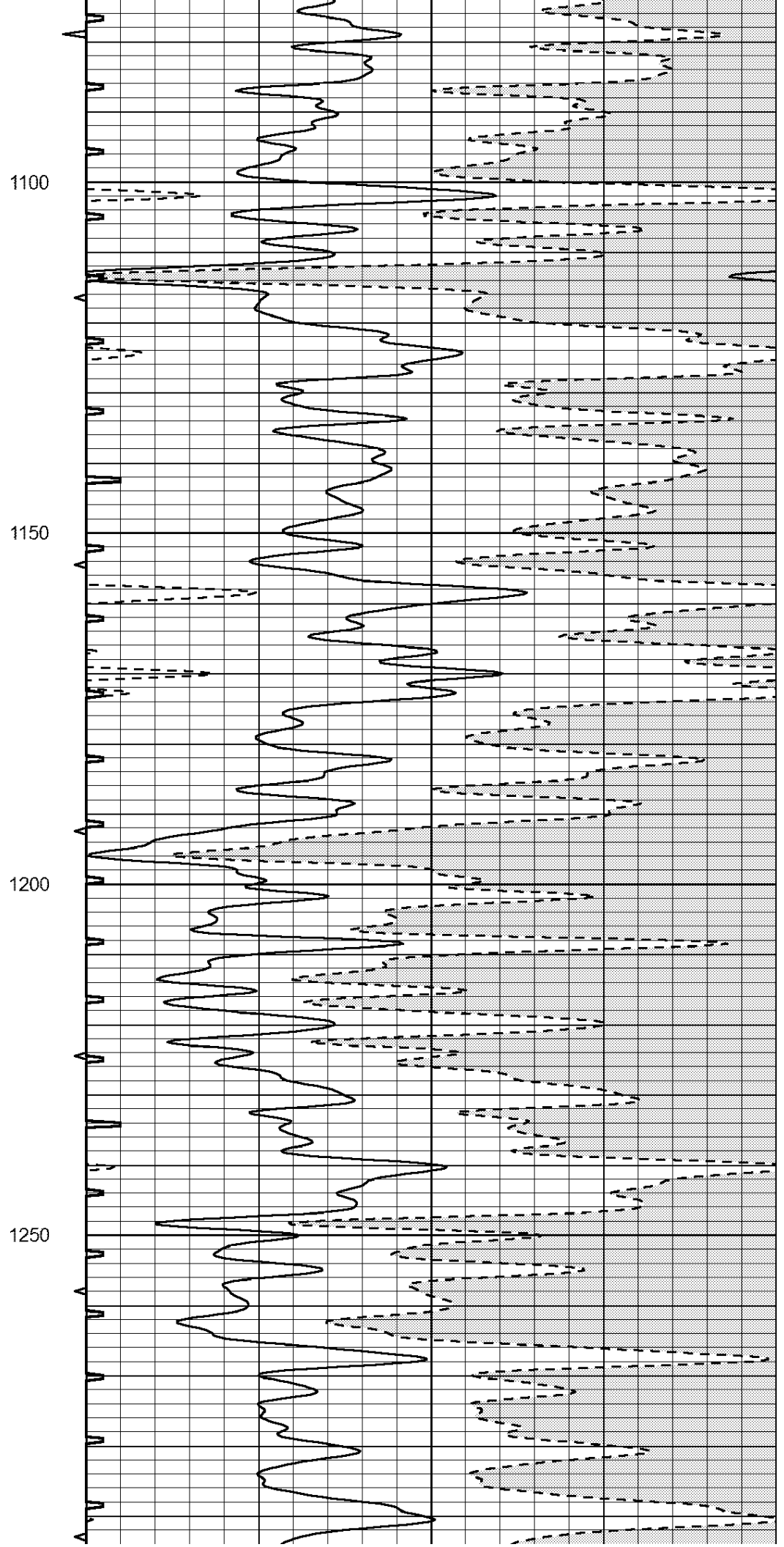
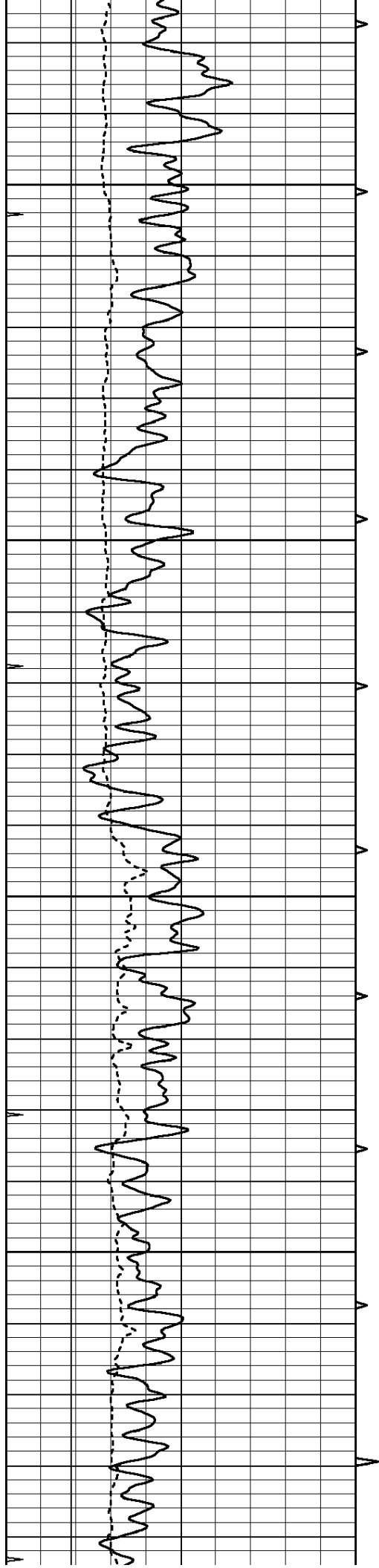
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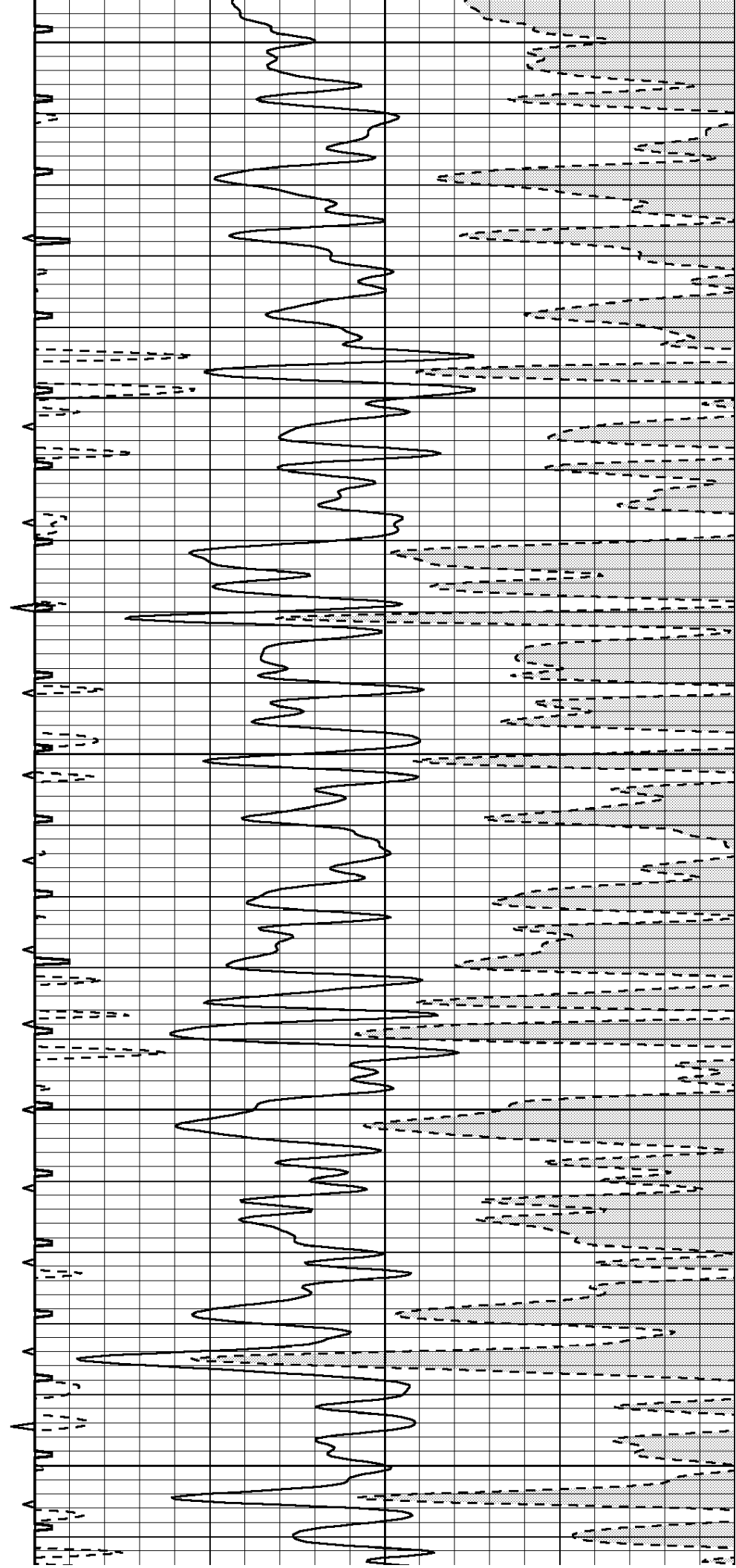
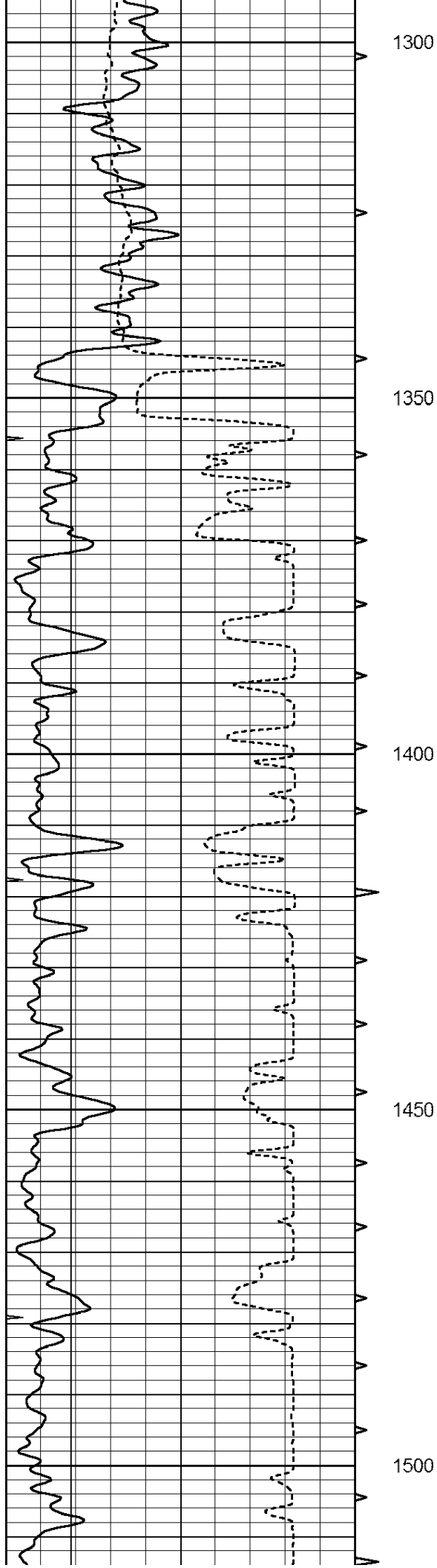
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
281 & HWY 4 - 4 MILES SOUTH - WEST 2 MILES - SOUTH 1/2 - EAST INTO

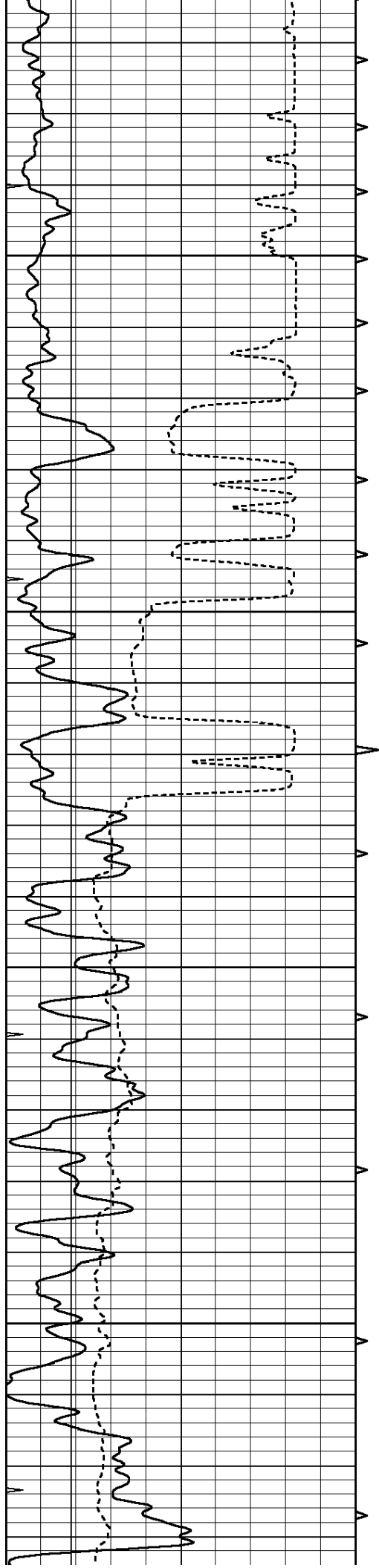
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Dataset Creation: Tue Nov 11 02:59:34 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

Charted by: _____			Depth in Feet scaled 1:1.25			
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			







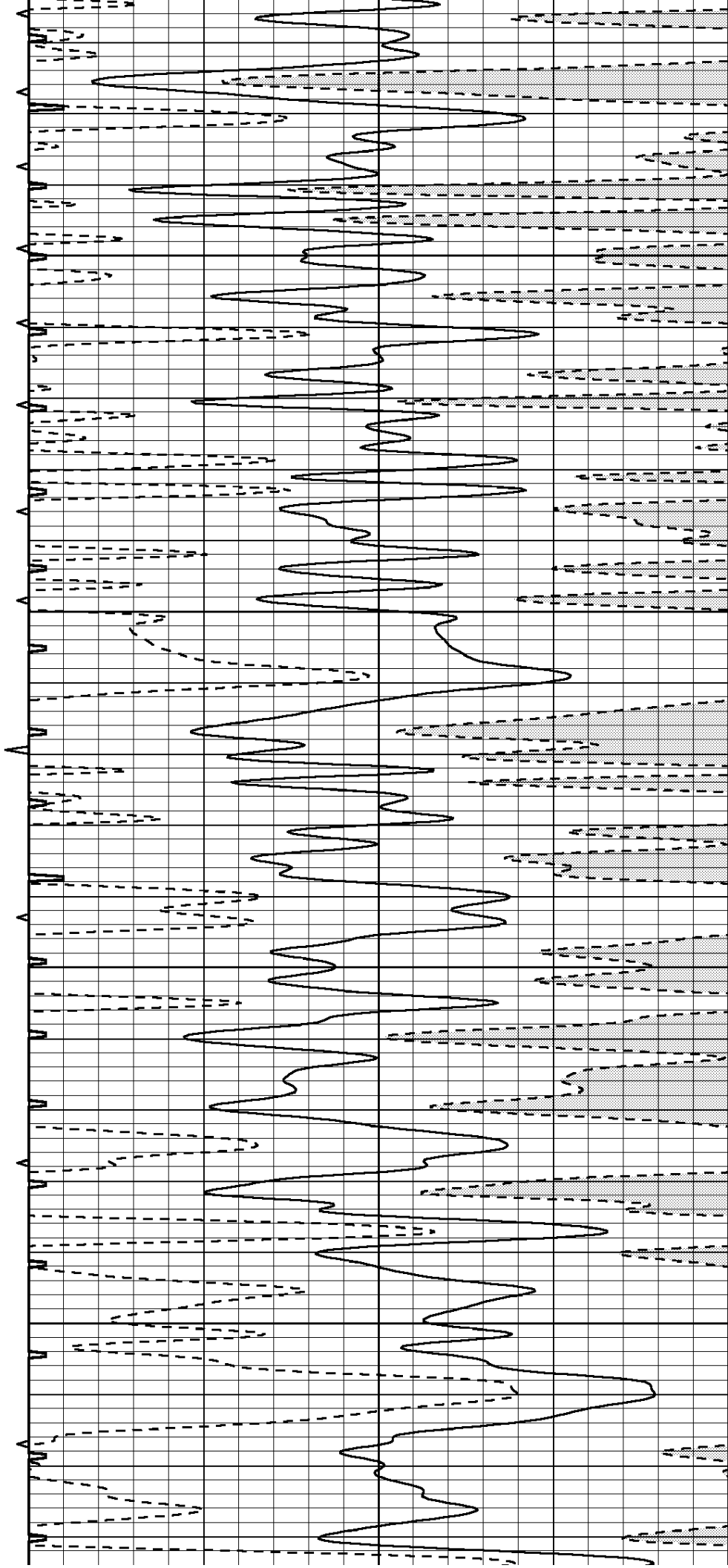


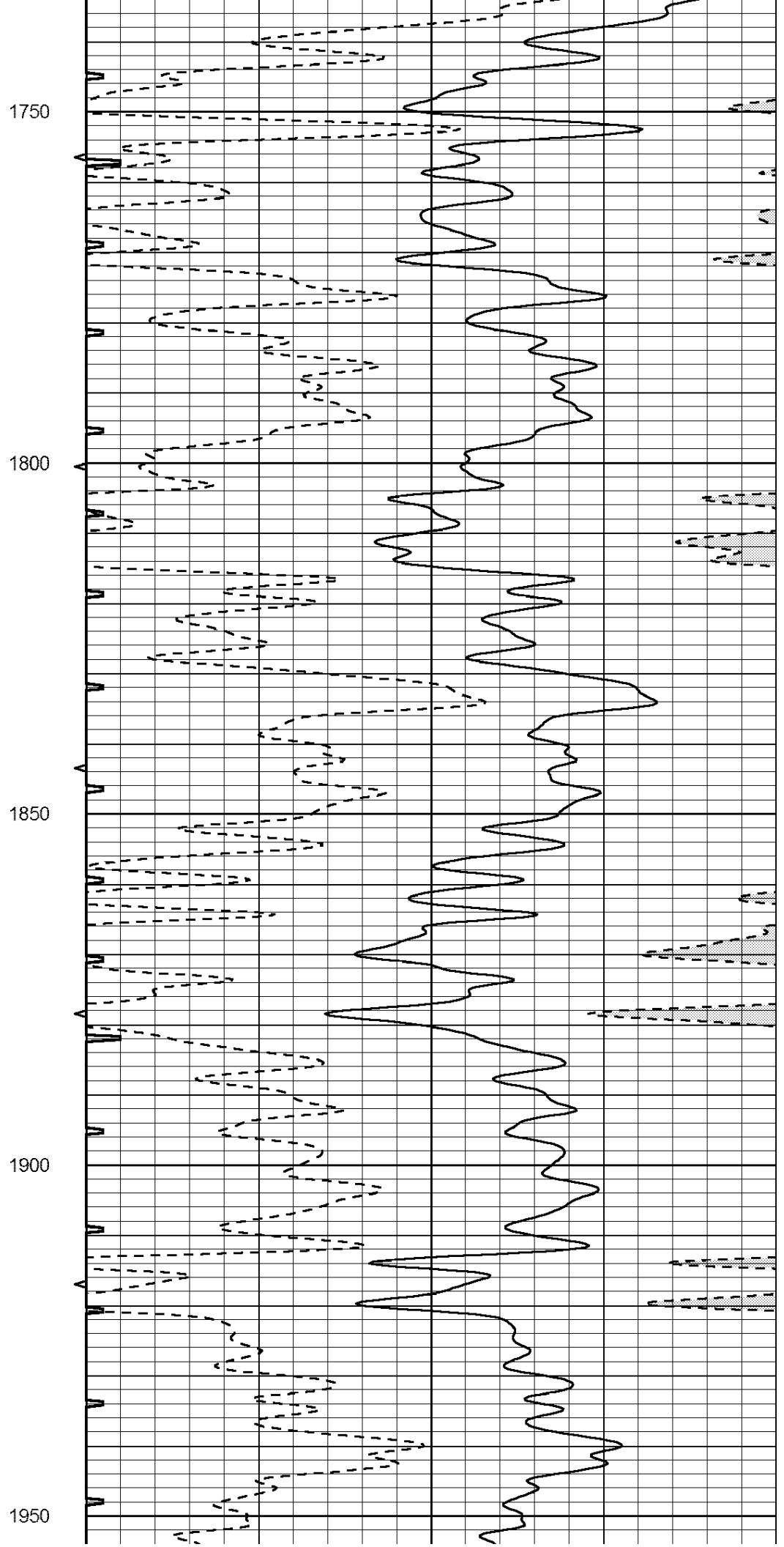
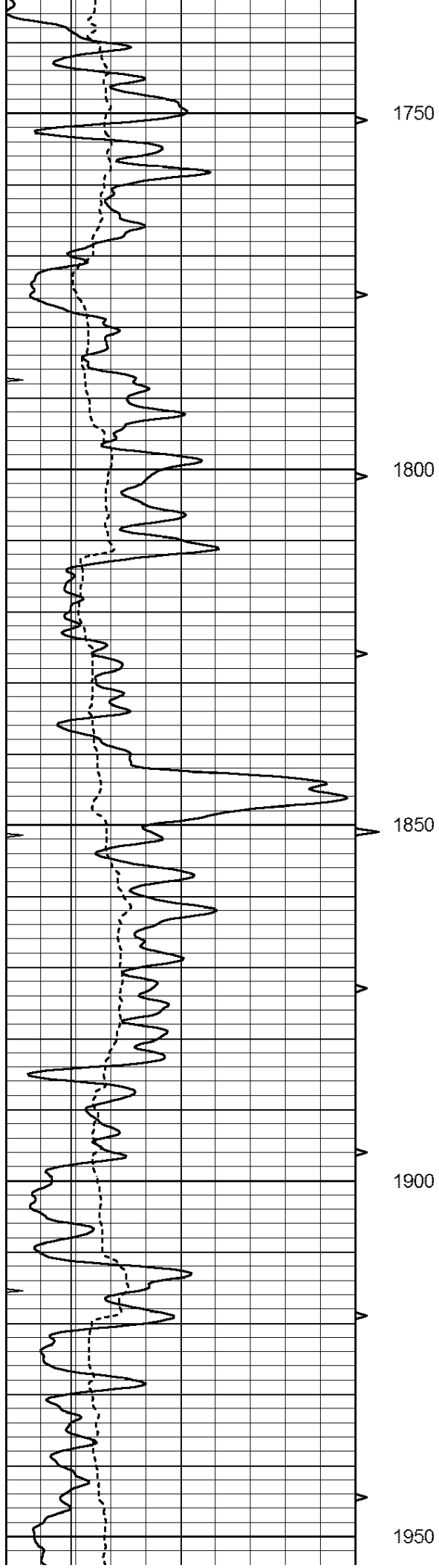
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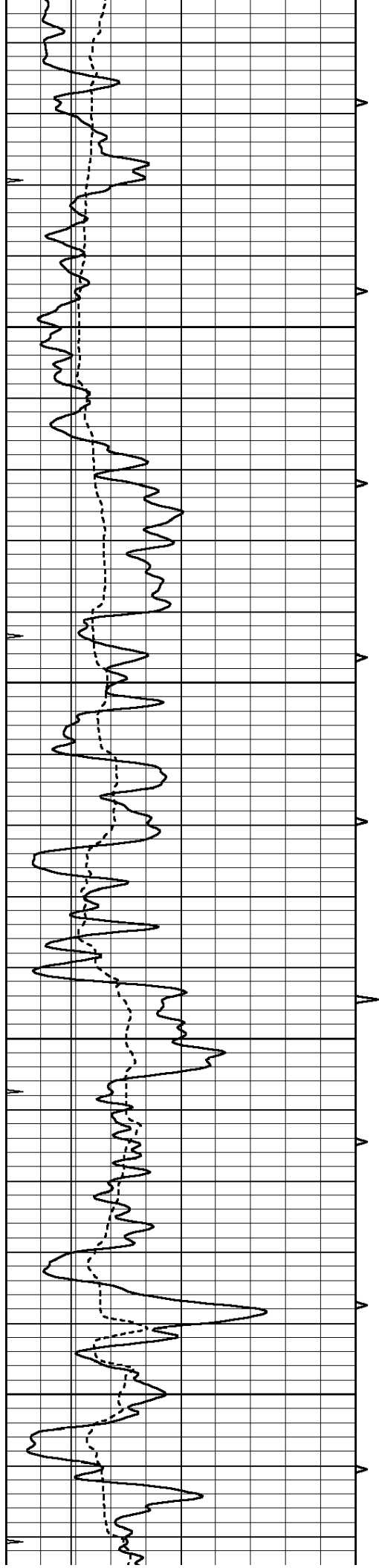
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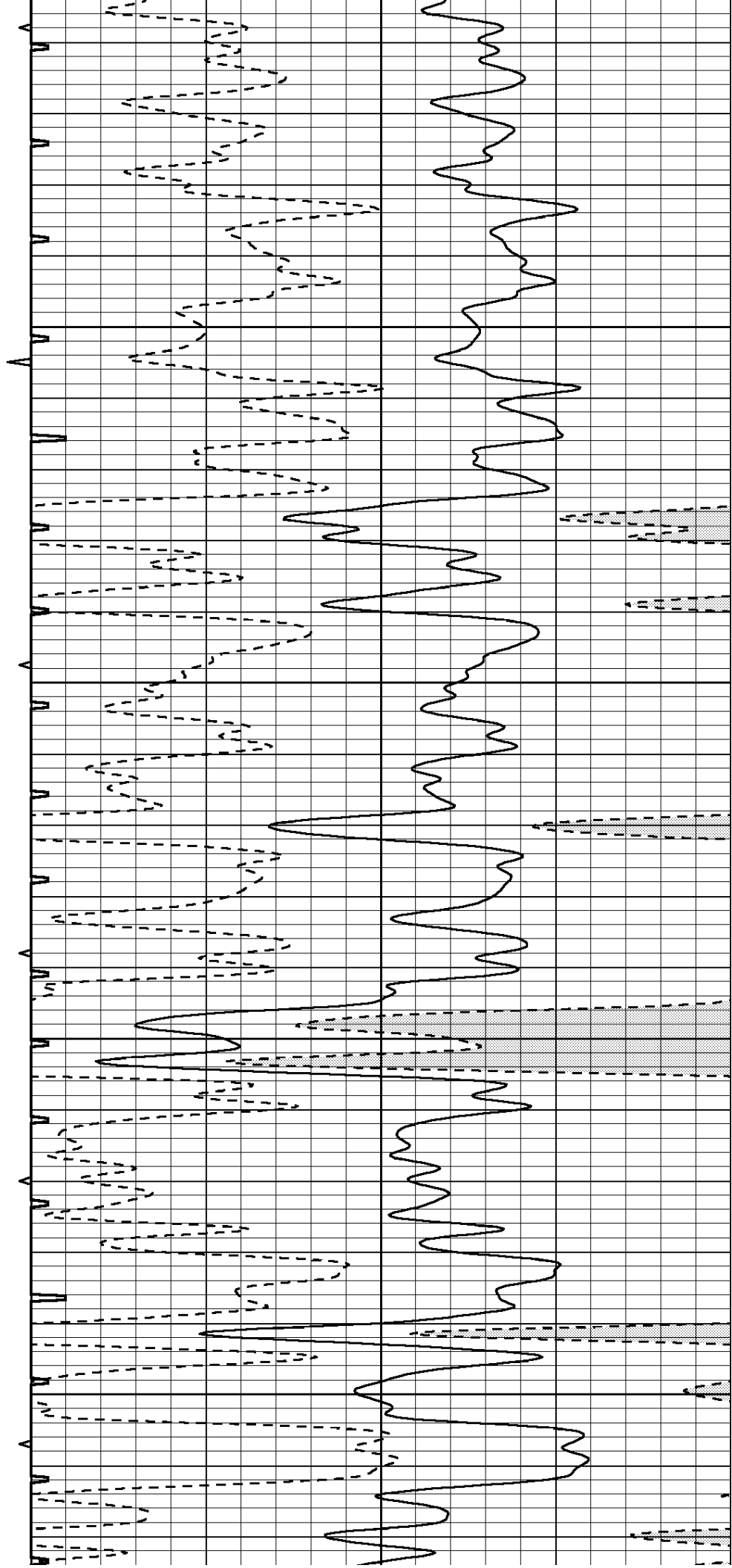


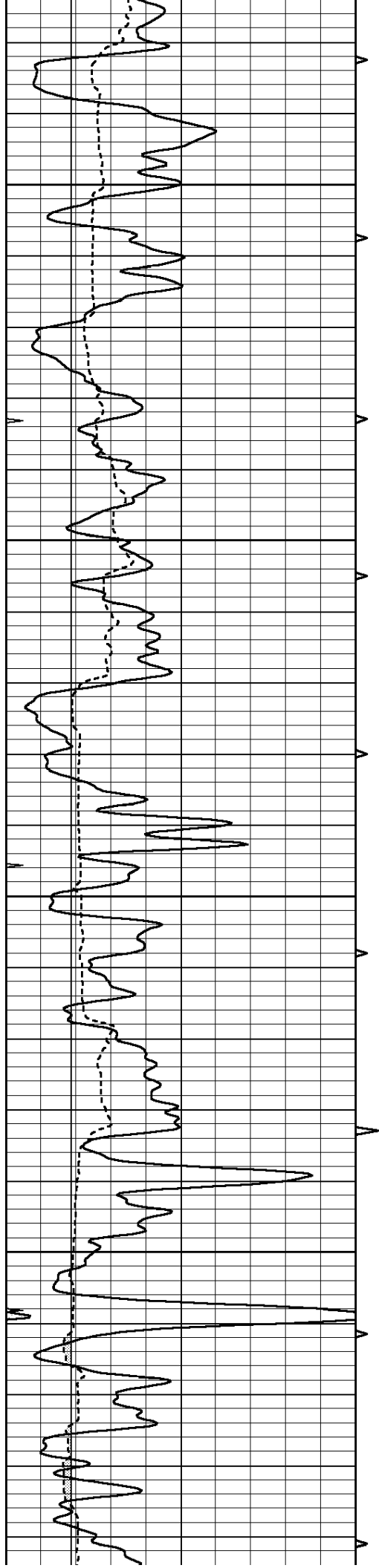
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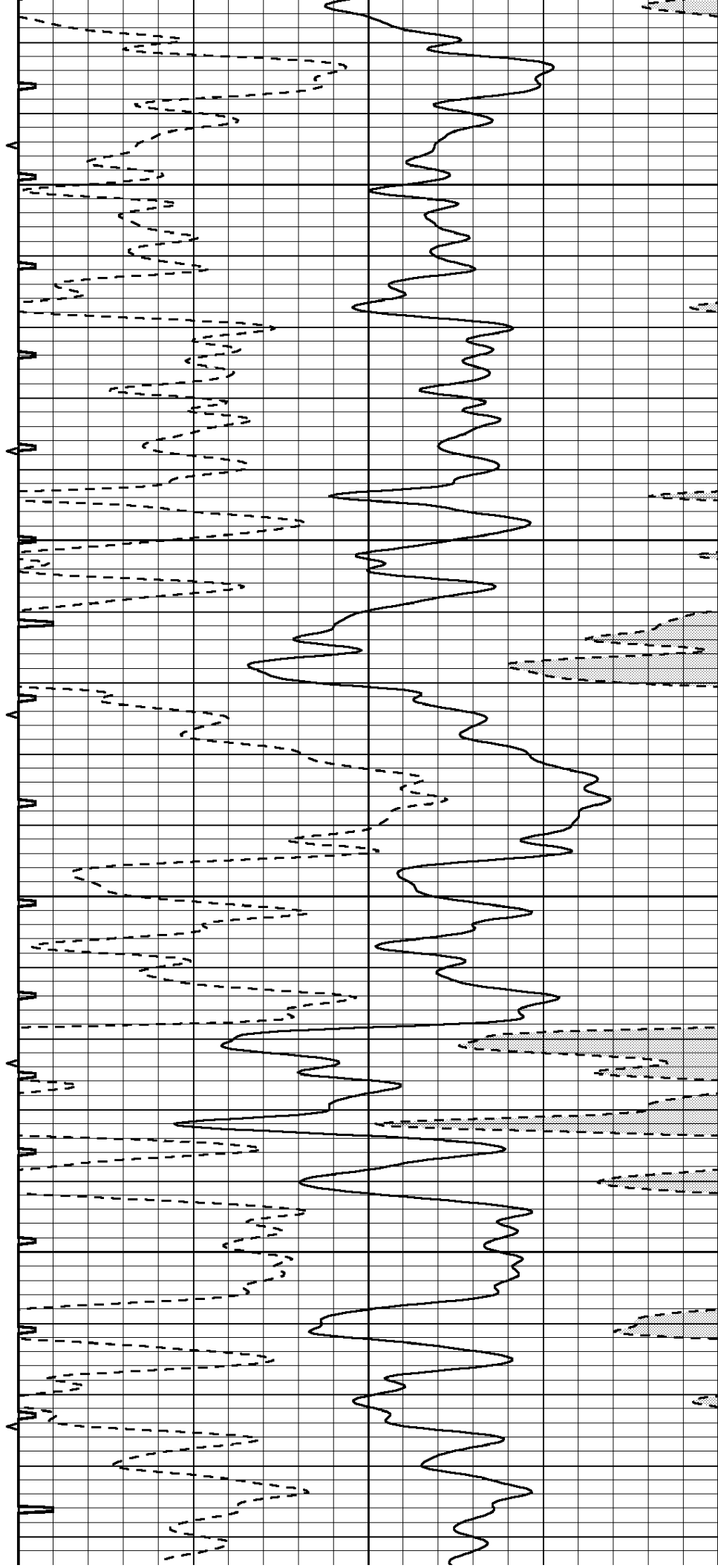


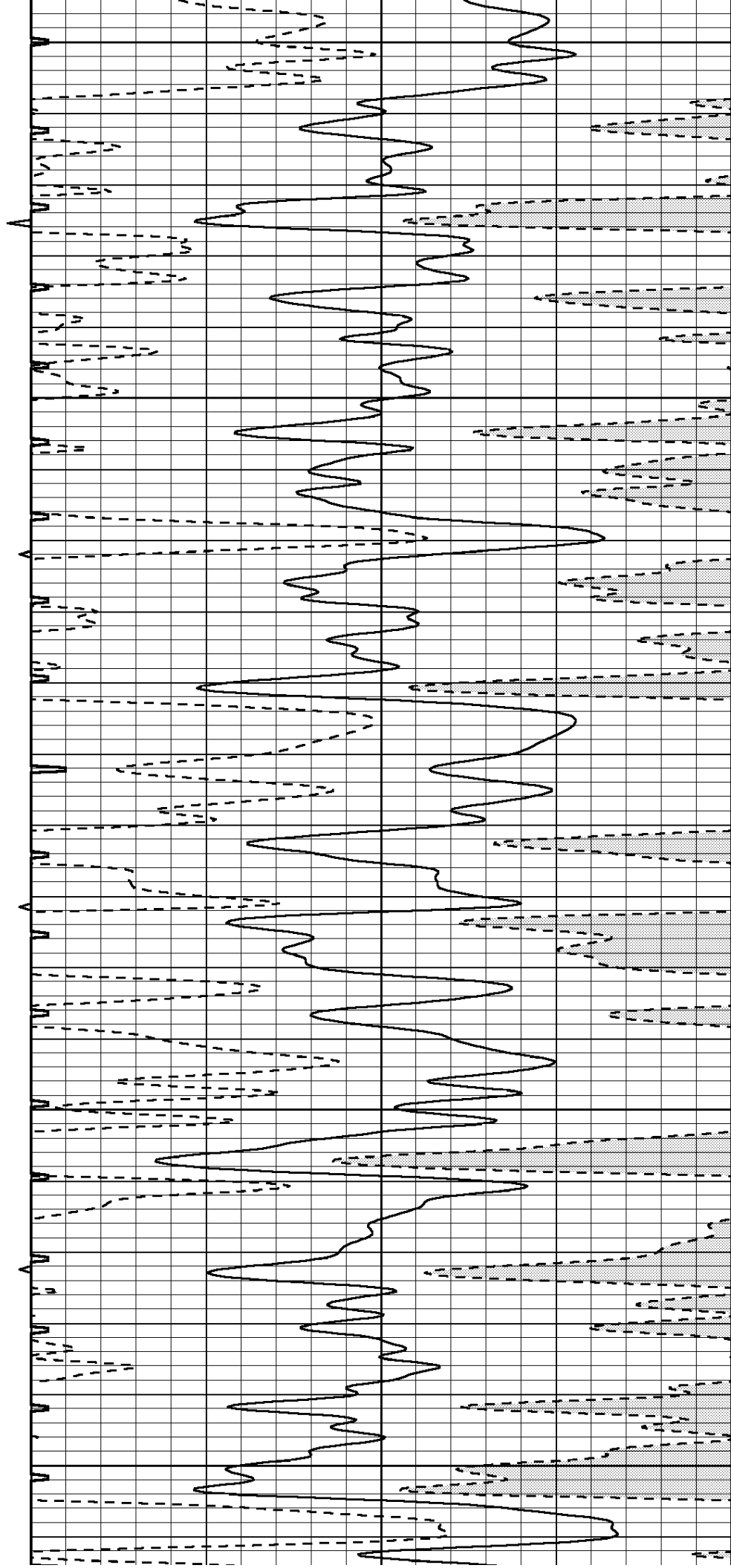
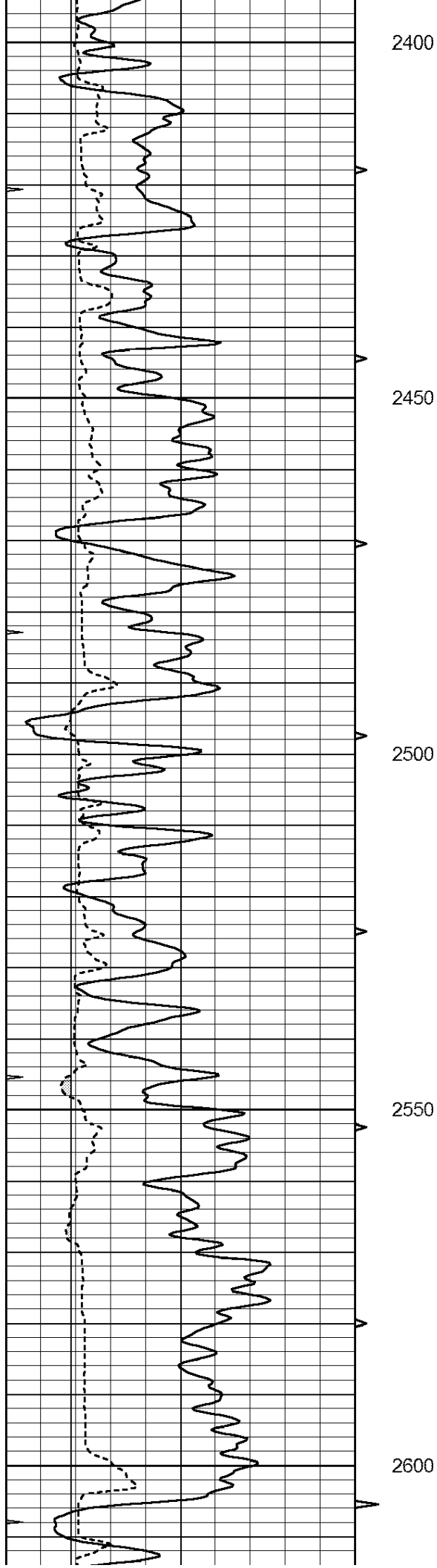
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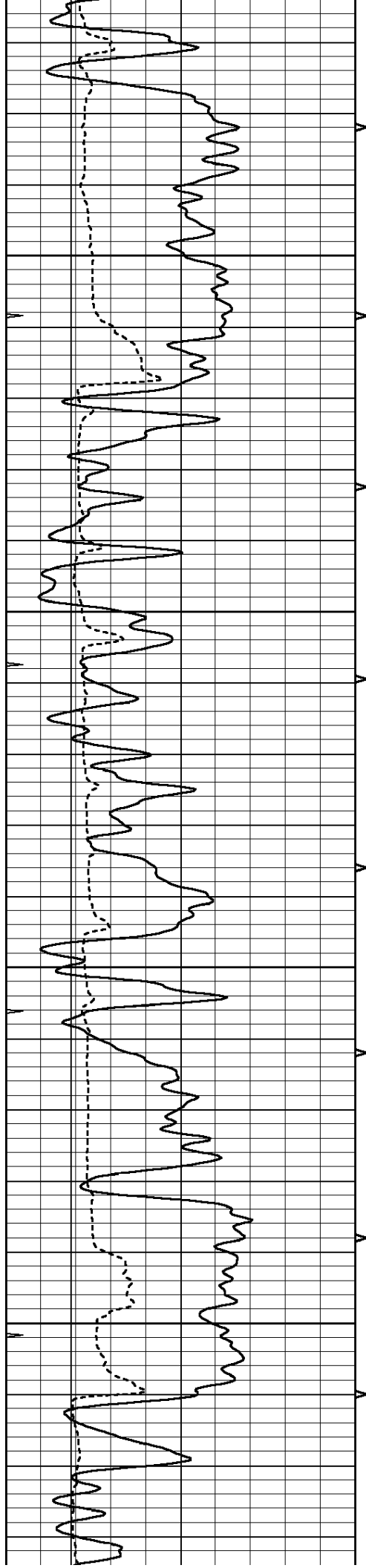
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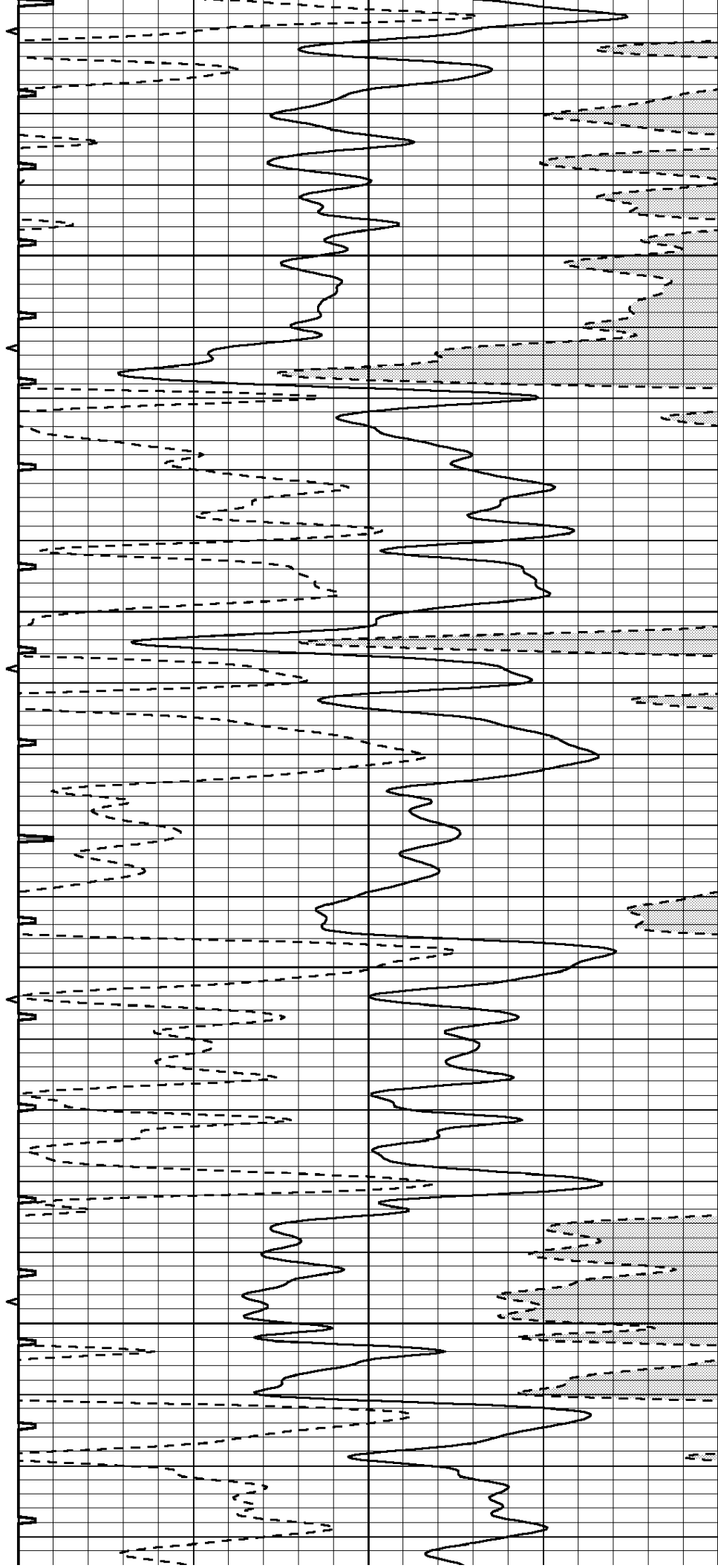


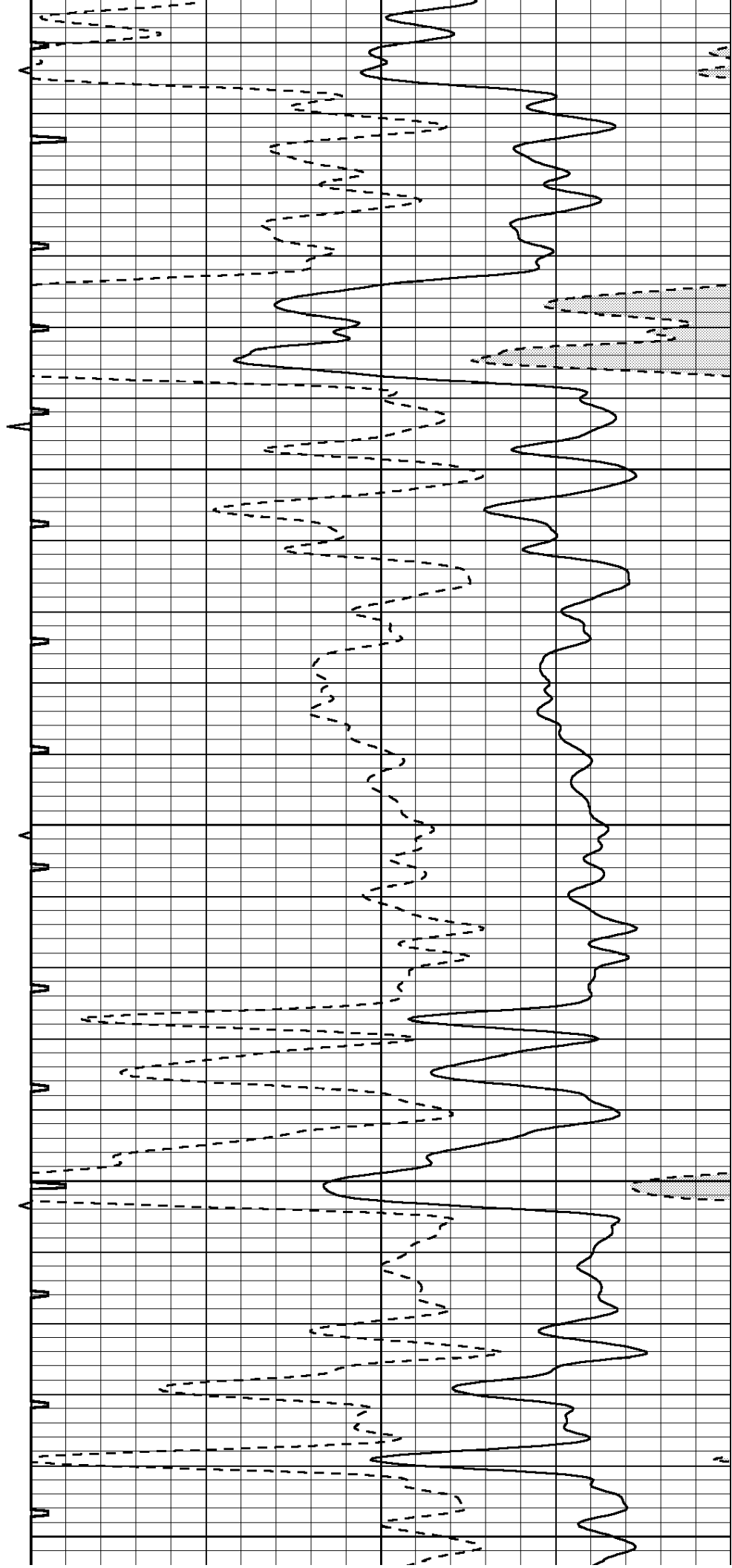
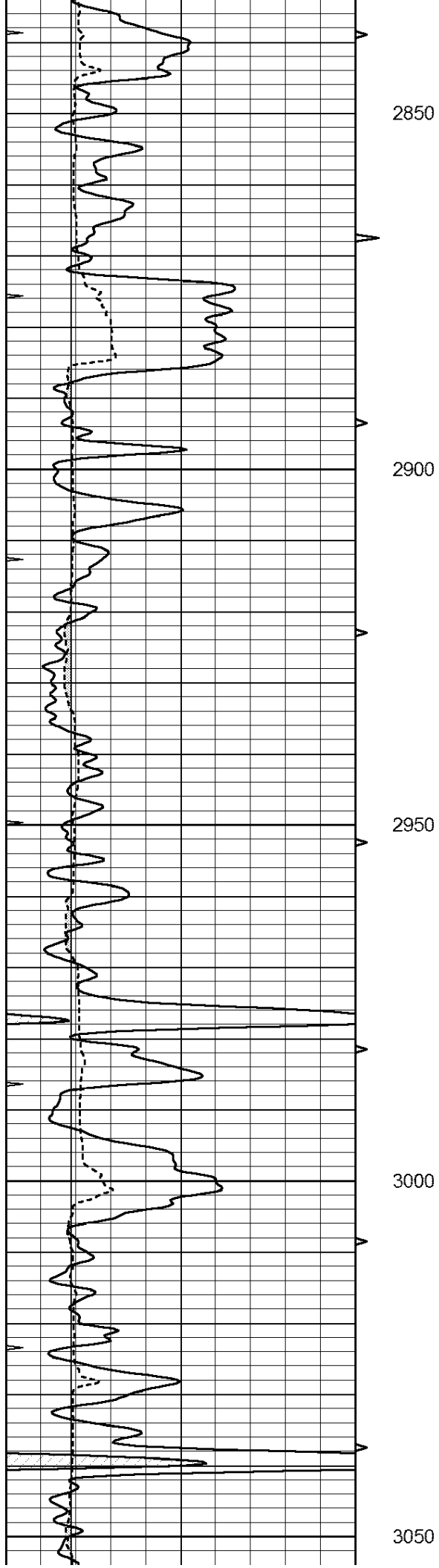
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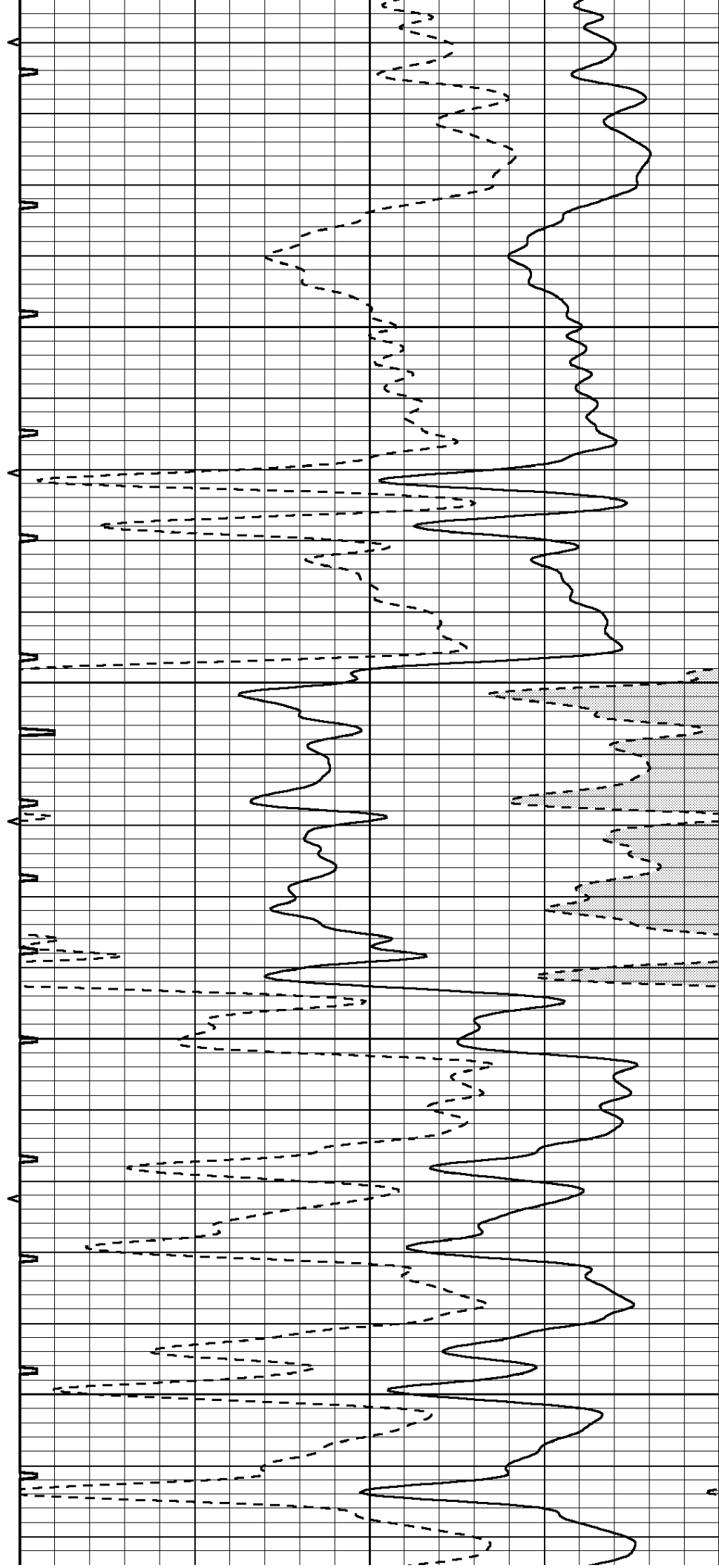
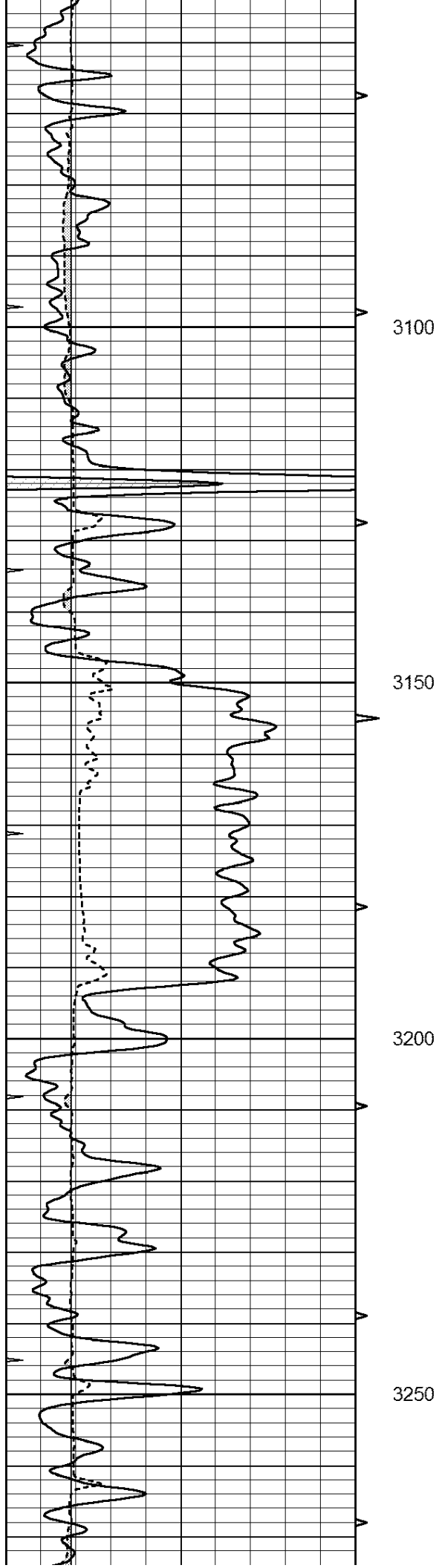
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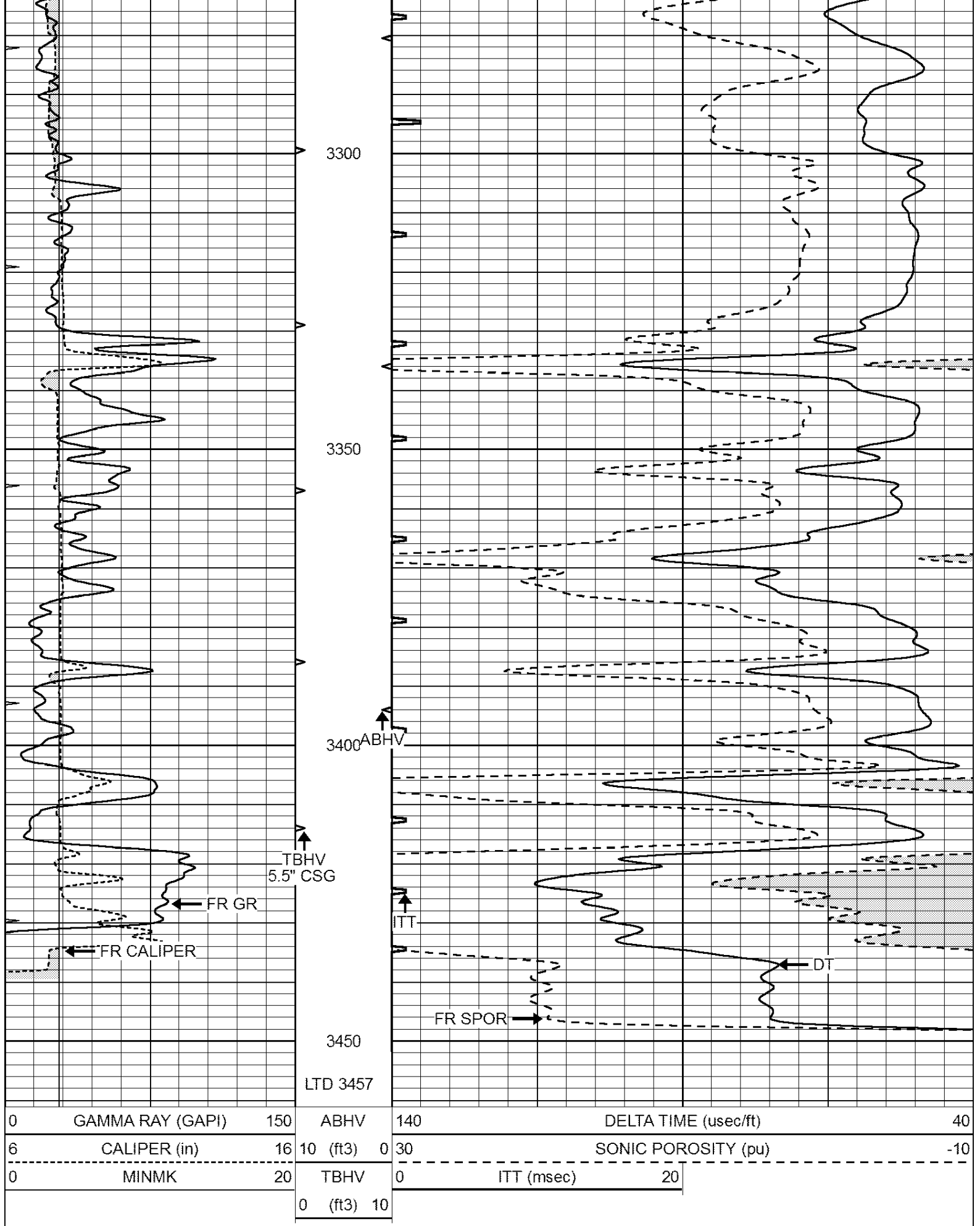
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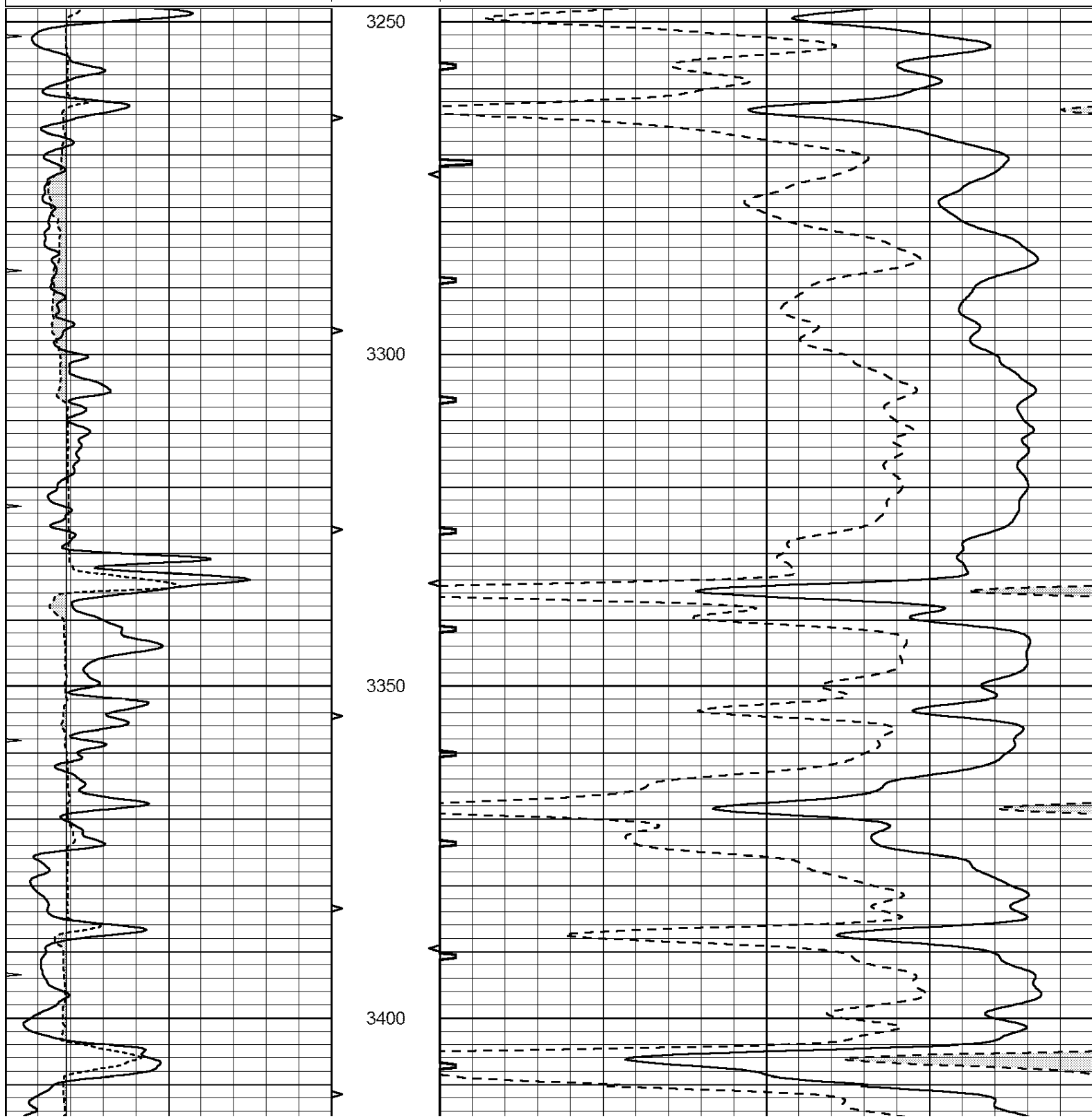


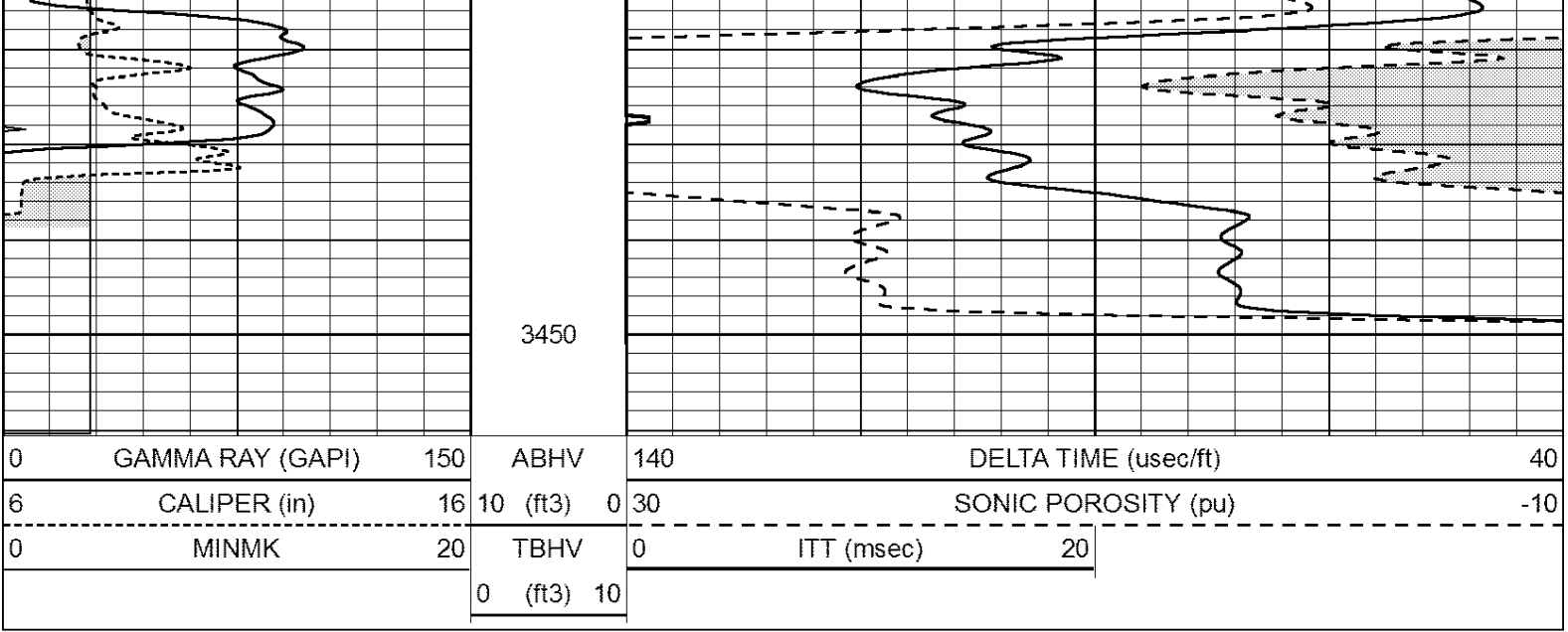




Database File: 26403ddn.db
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Charted by: Depth in Feet scaled 1:240

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
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