

**NABORS****COMPLETION
& PRODUCTION
SERVICES CO.****COMPENSATED
DENSITY/NEUTRON
LOG**

Company	MID-CONTINENT ENERGY OPERATING CO.		
Well	KALBACH UNIT #1-30		
Field	WILDCAT		
County	WICHITA		
State	KANSAS		
Company	MID-CONTINENT ENERGY OPERATING CO.	Location:	APL # : 15-203-20230-0000
Well	KALBACH UNIT #1-30	800' FSL & 2450' FEL	Other Services
Field	WILDCAT		DIL/MEL
County	WICHITA	State	KANSAS
Permanent Datum	SEC 30 TWP 16S RGE 36W	GROUND LEVEL Elevation	3314
Log Measured From		KELLY BUSHING 10' A.G.L.	
Drilling Measured From		KELLY BUSHING	Elevation K.B. 3324 D.F. 3322 G.L. 3314
Date	9/8/13		
Run Number	ONE		
Depth Driller	5000		
Depth Logger	4999		
Bottom Logged Interval	4975		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 306'		
Casing Logger			
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9500 PPM	
Density / Viscosity	9.2 / 60		
pH / Fluid Loss	10.0 / 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.35 @ 94F		
Rmt @ Meas. Temp	0.26 @ 94F		
Rmc @ Meas. Temp	0.42 @ 94F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	0.26 @ 125F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	125F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	TOM PRONOLD		

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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.

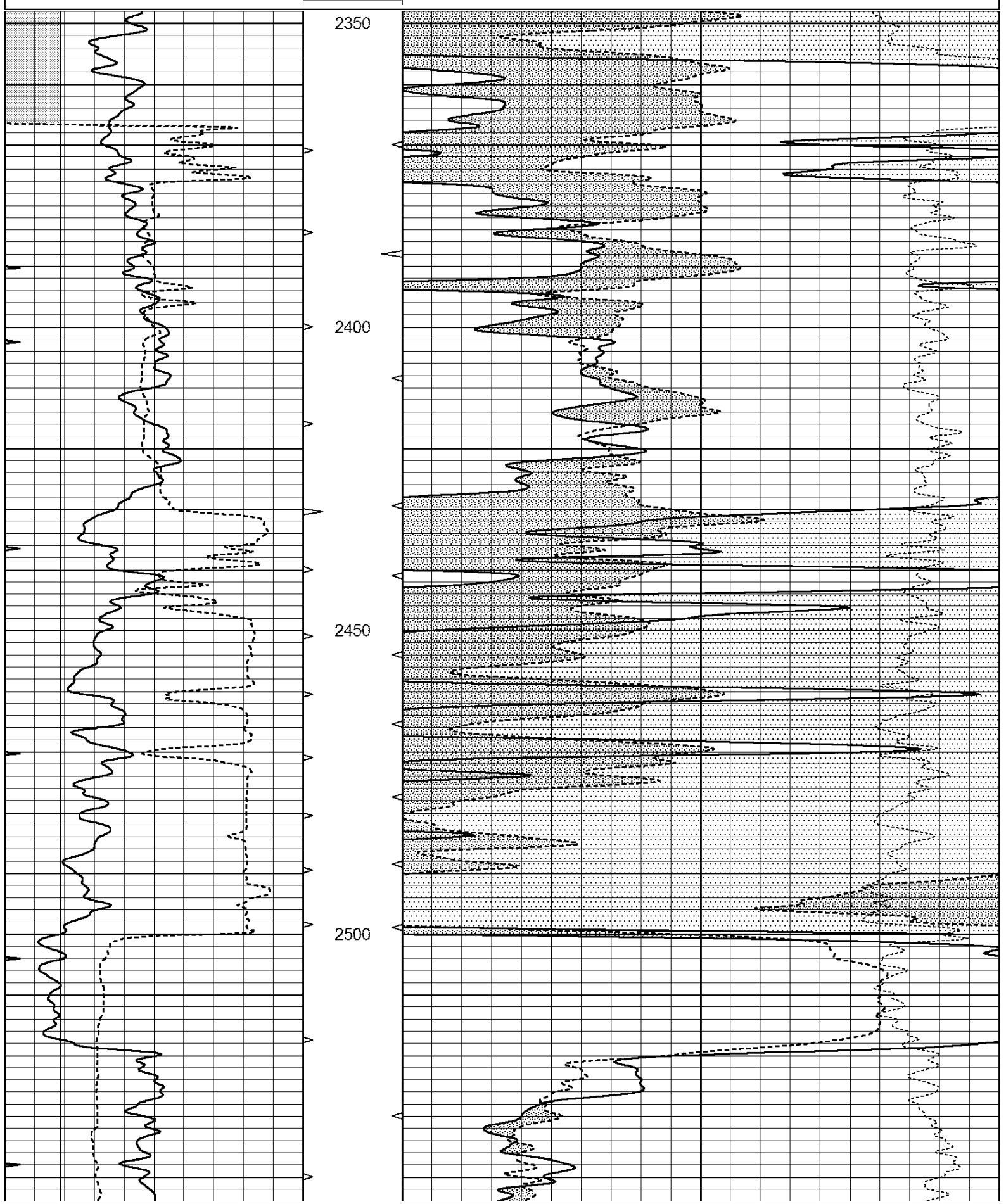
Comments

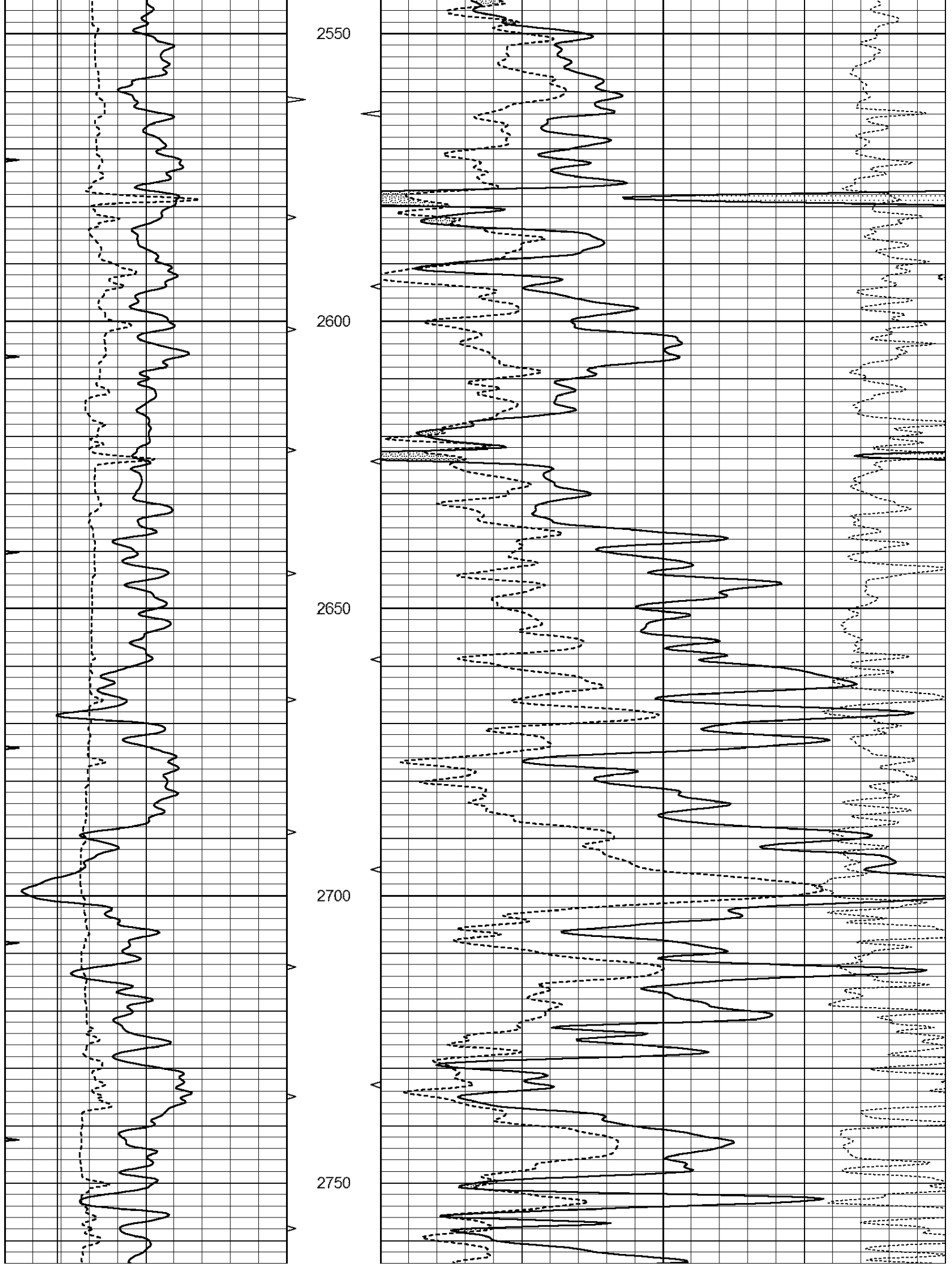
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
LEOTI, KS - 9 MILES NORTH TO COUNTY RD F - 1 1/2 MILES EAST - NORTH INTO

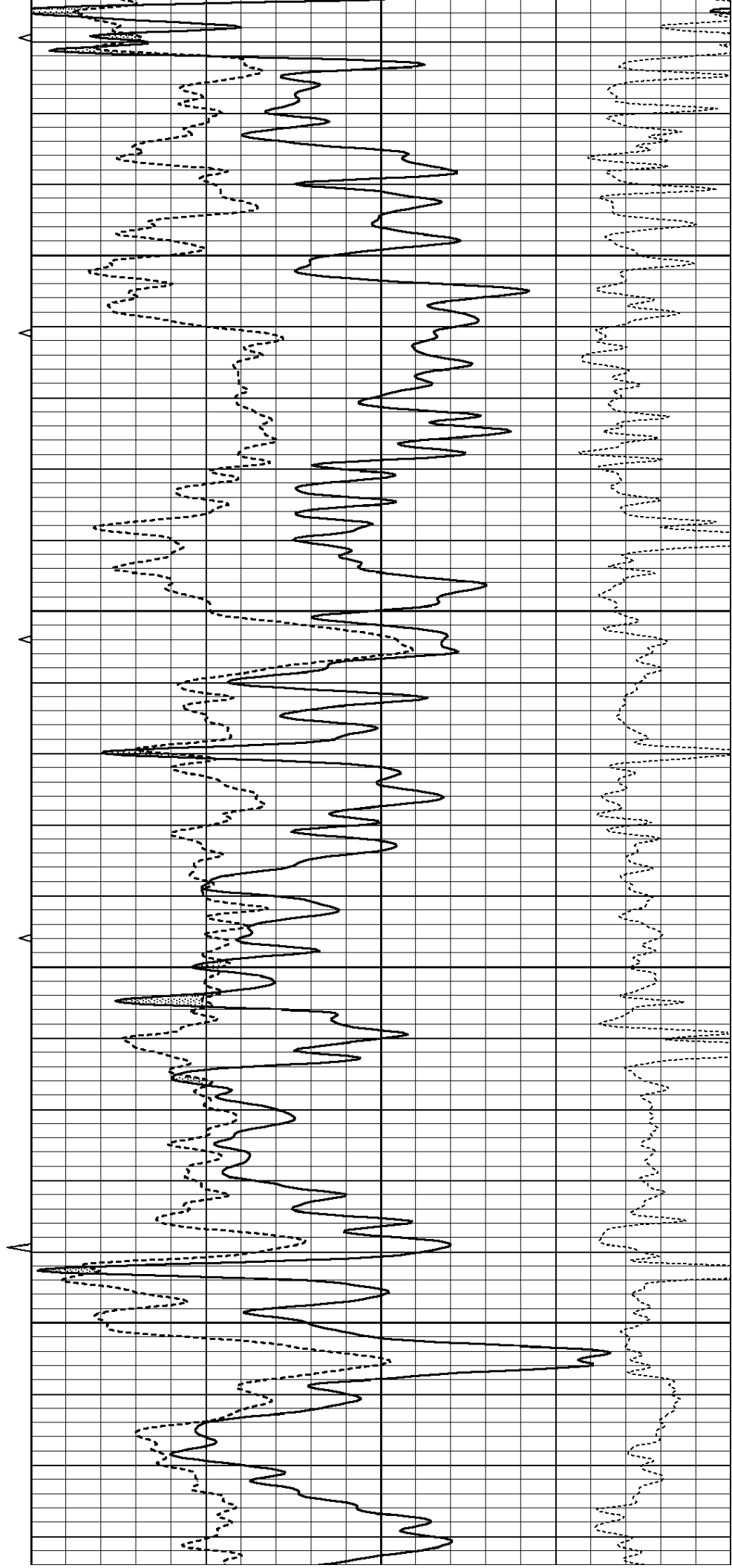
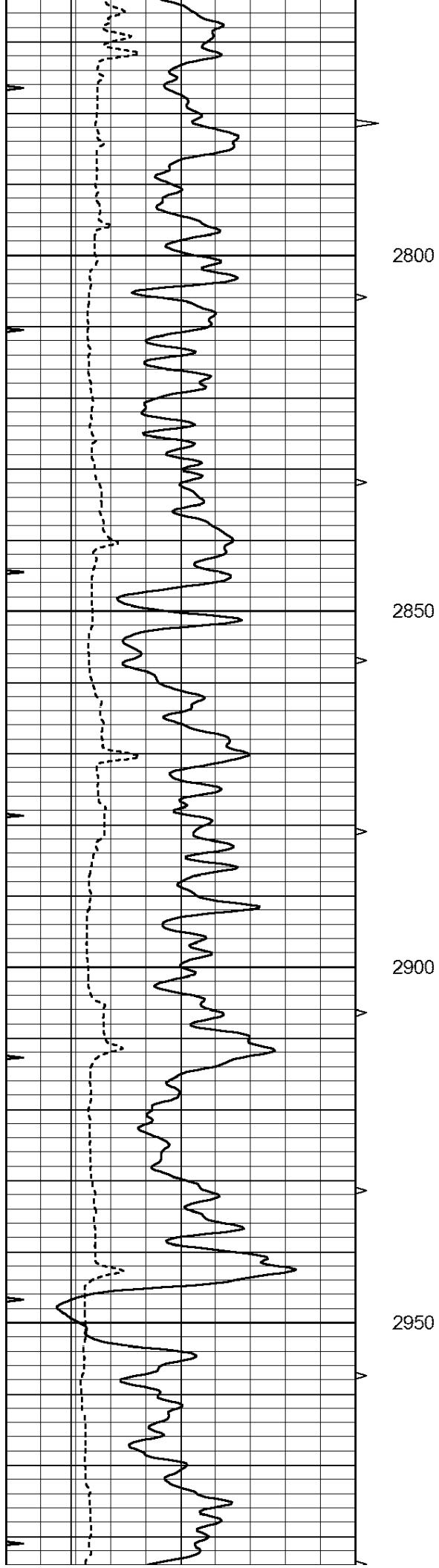
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Dataset Creation: Sun Sep 08 18:14:53 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

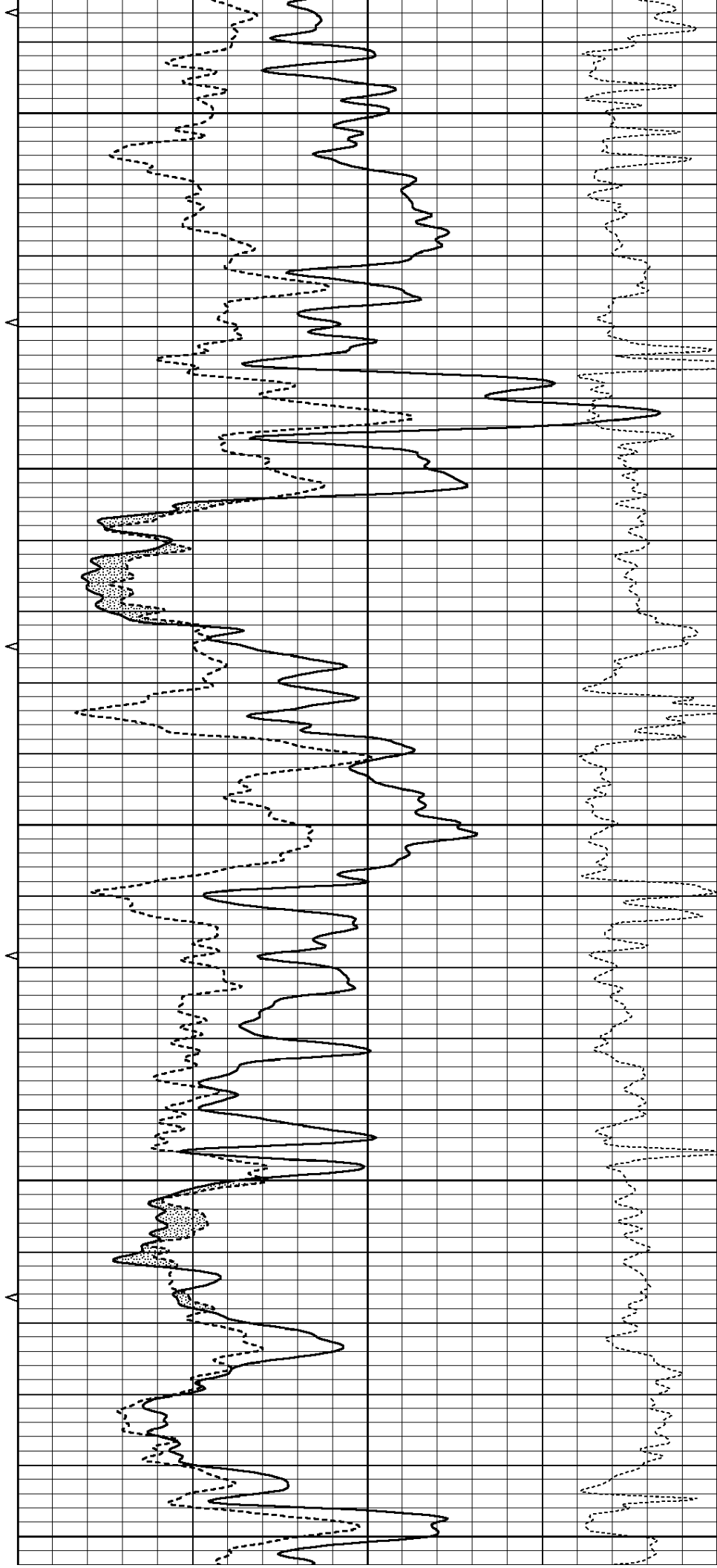
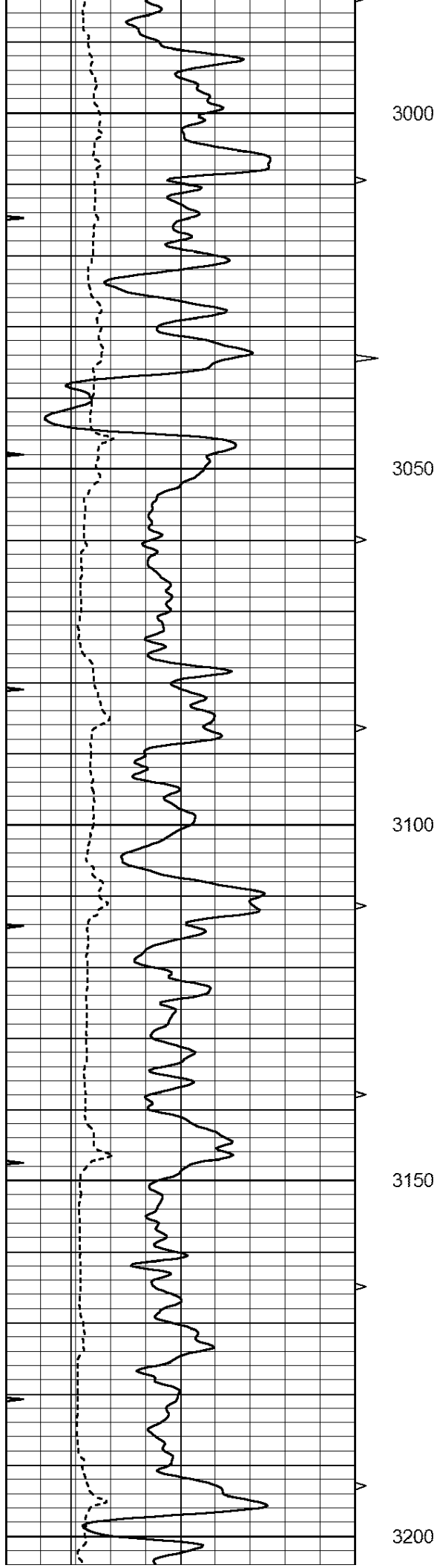
Charted by:		Depth in Feet scaled 1:2.10			
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10

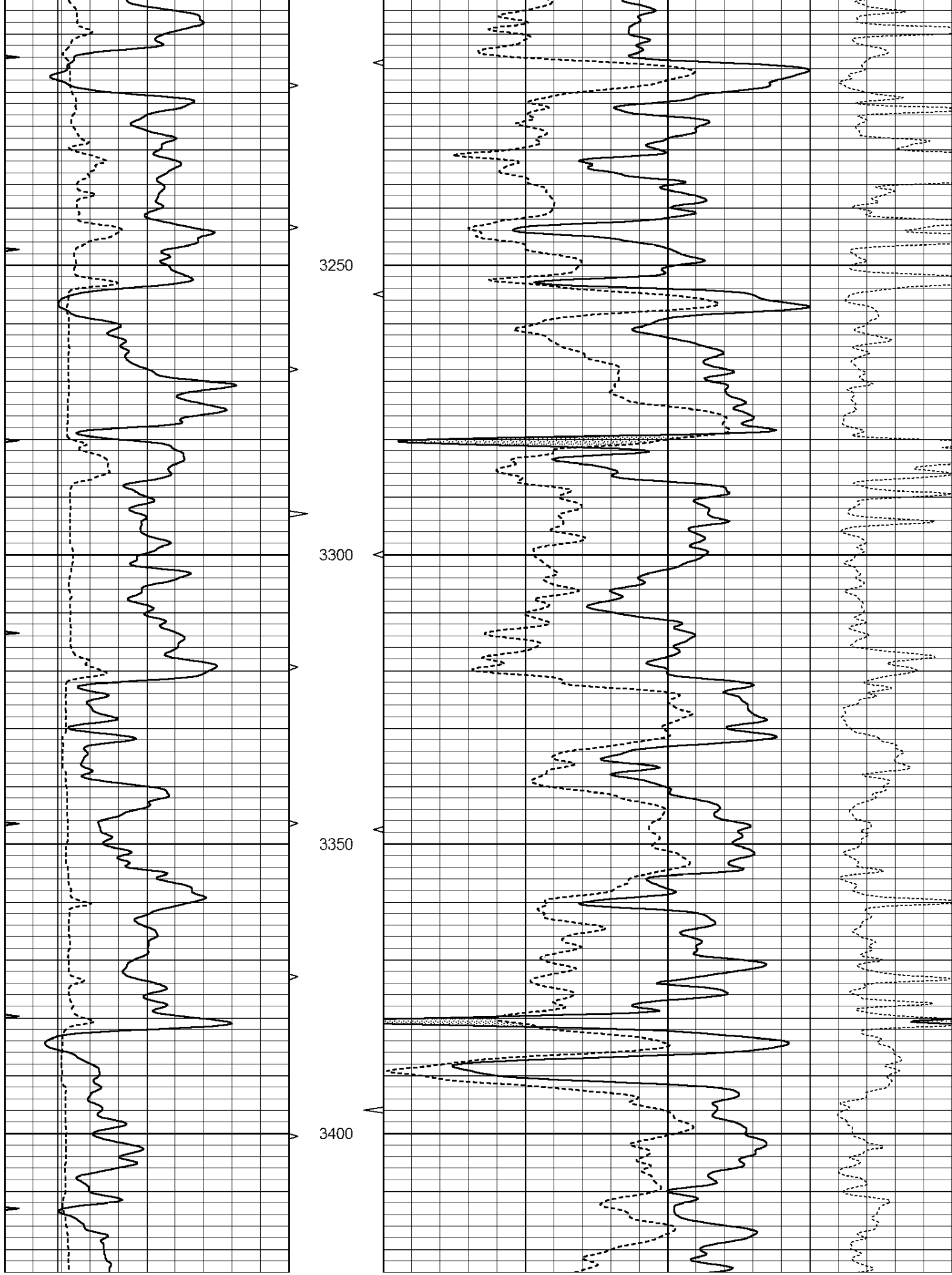
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10	-----	

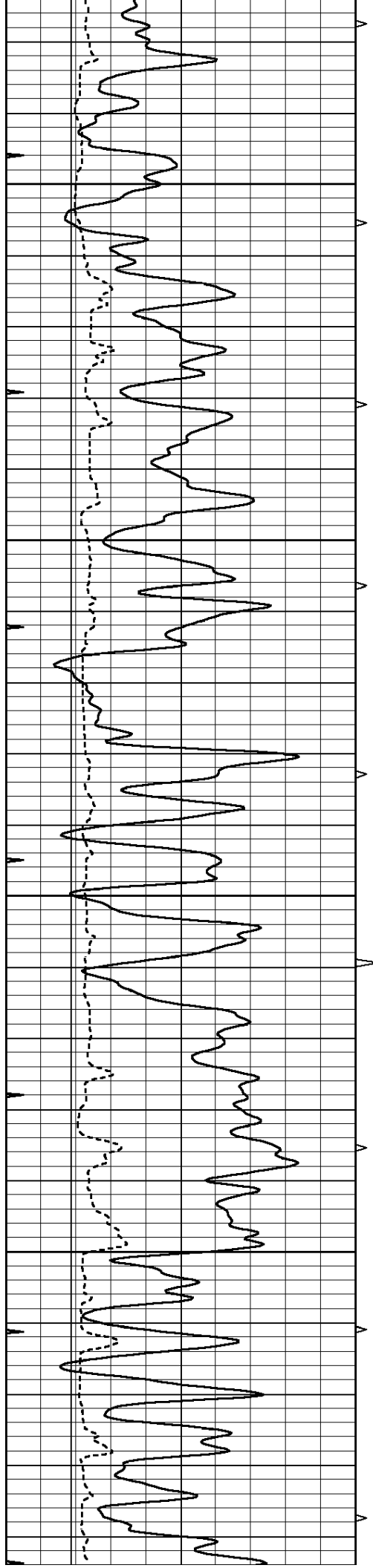










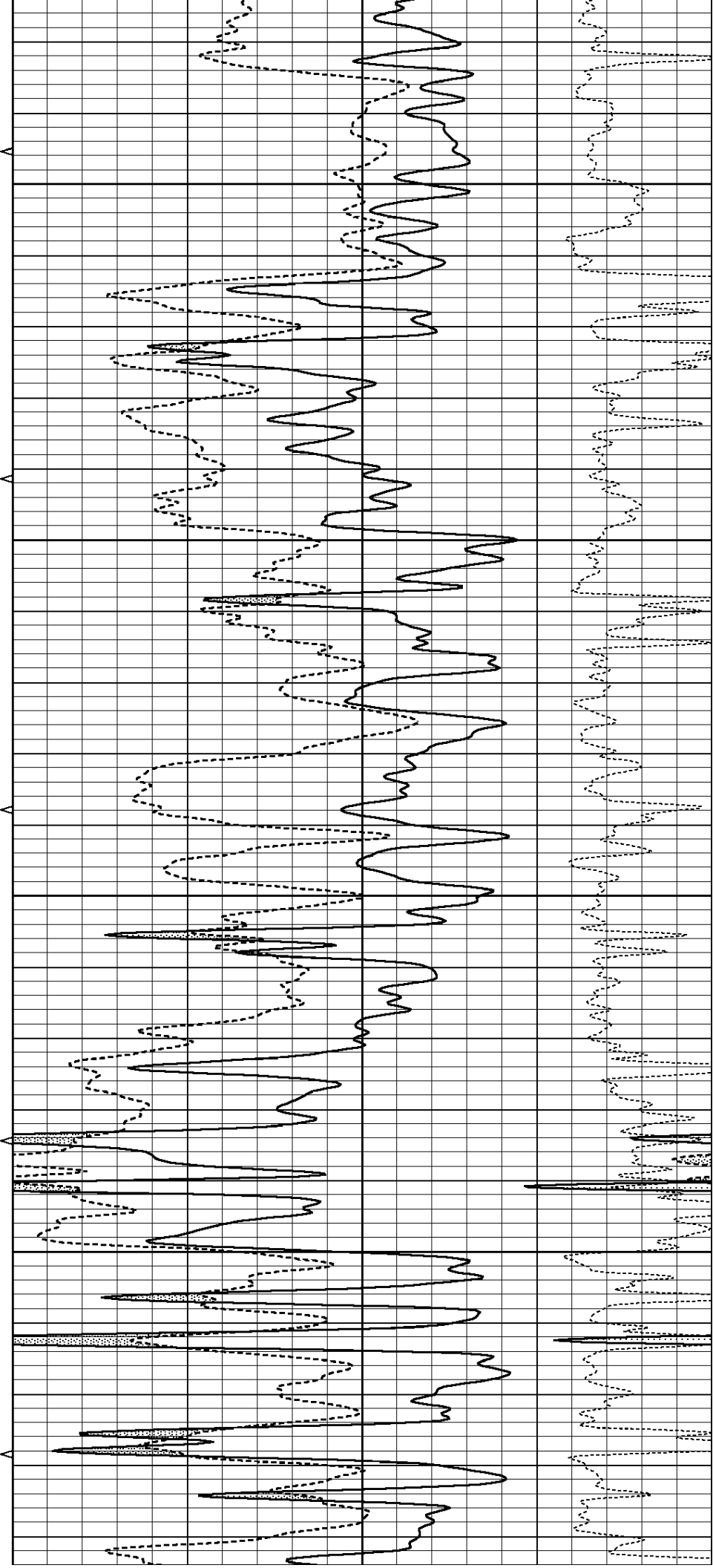


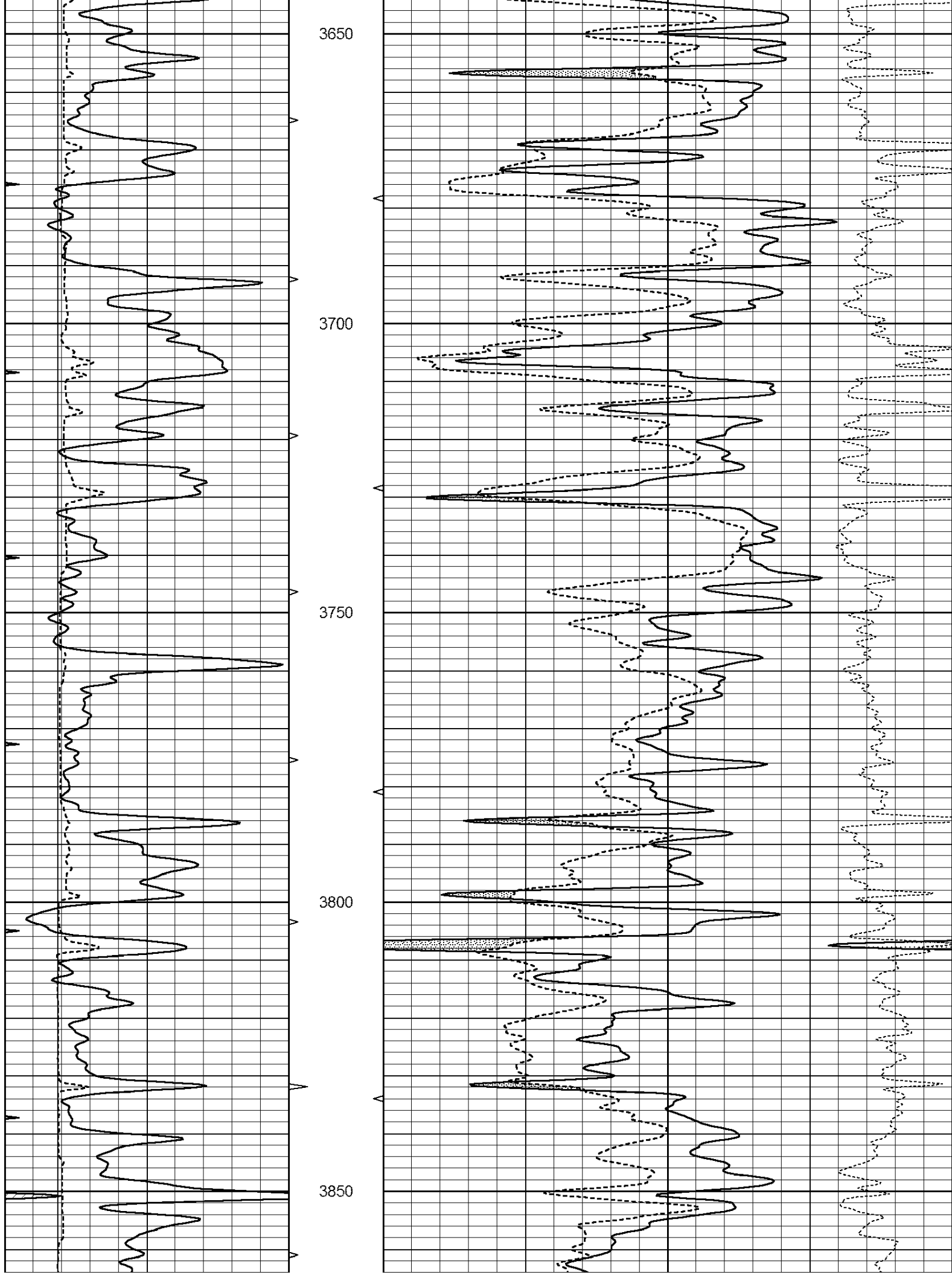
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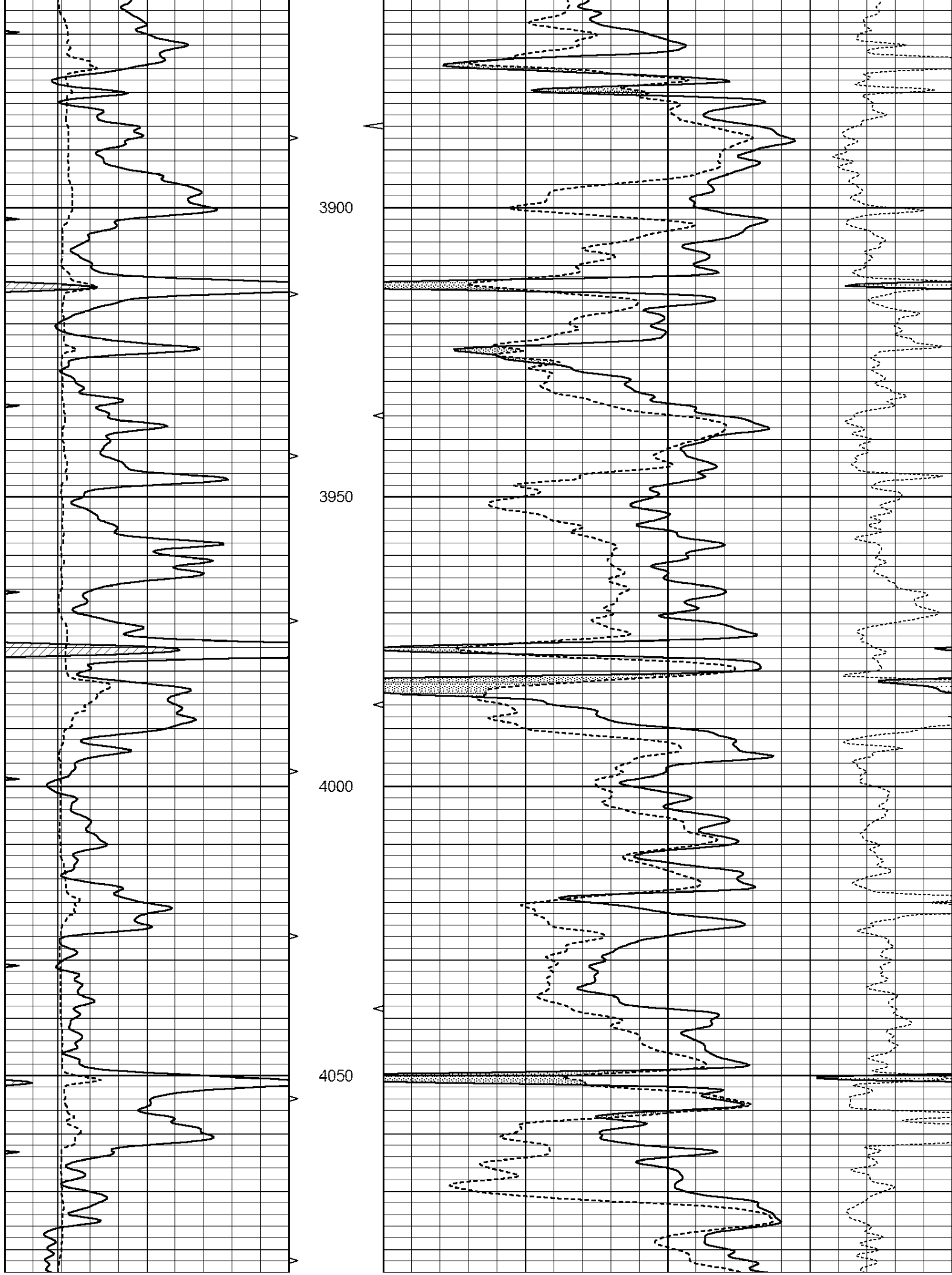
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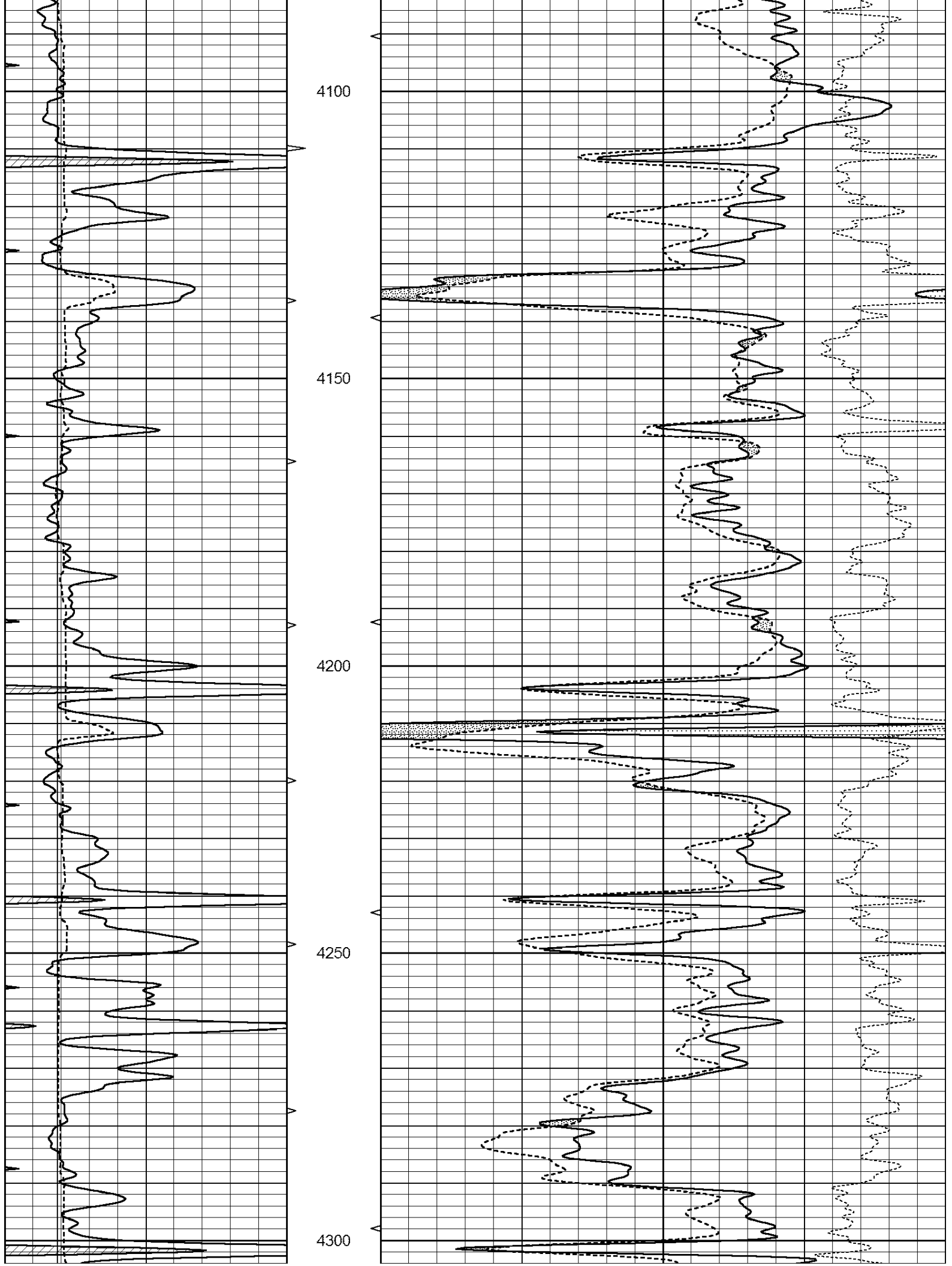
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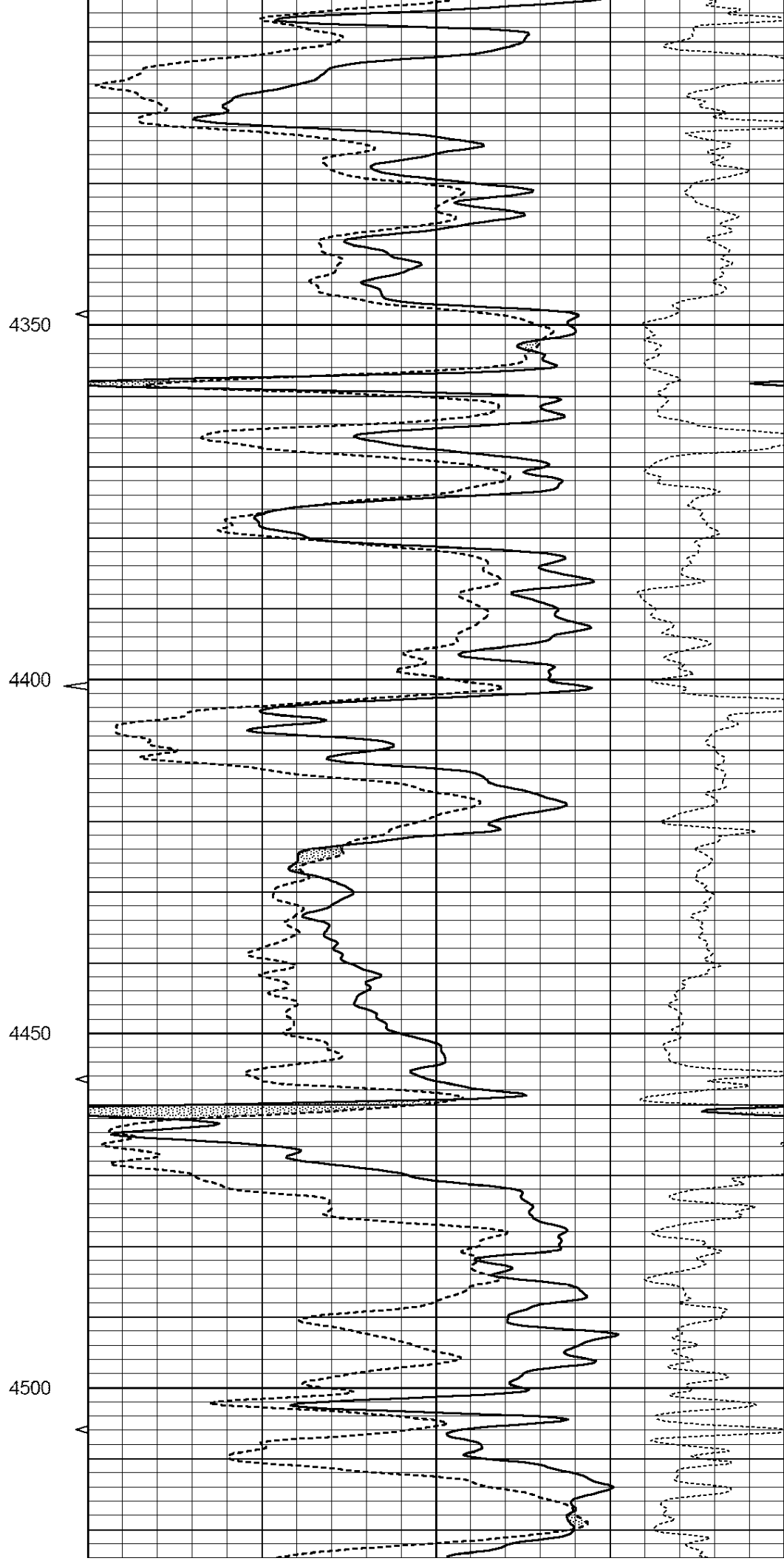
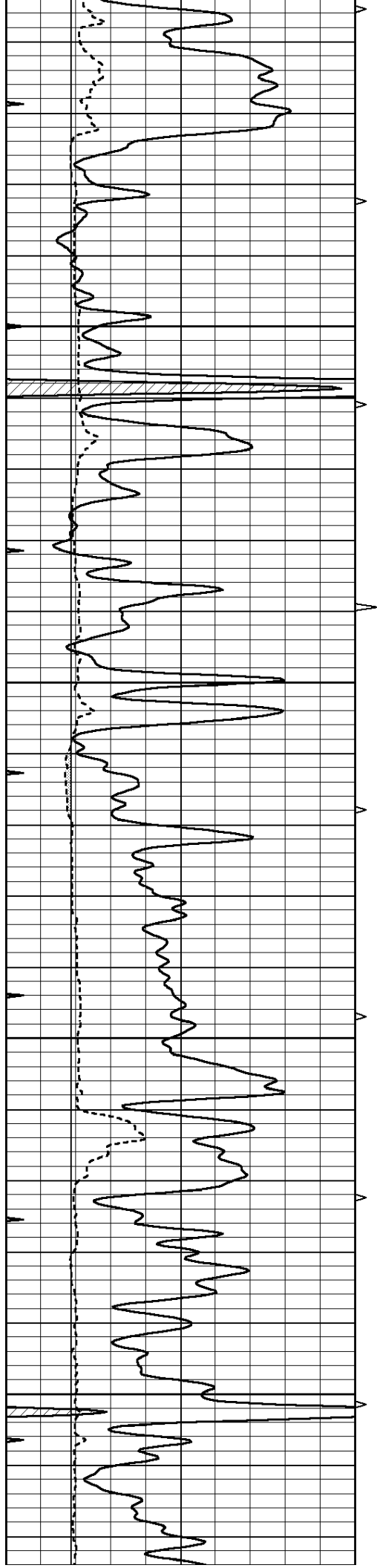
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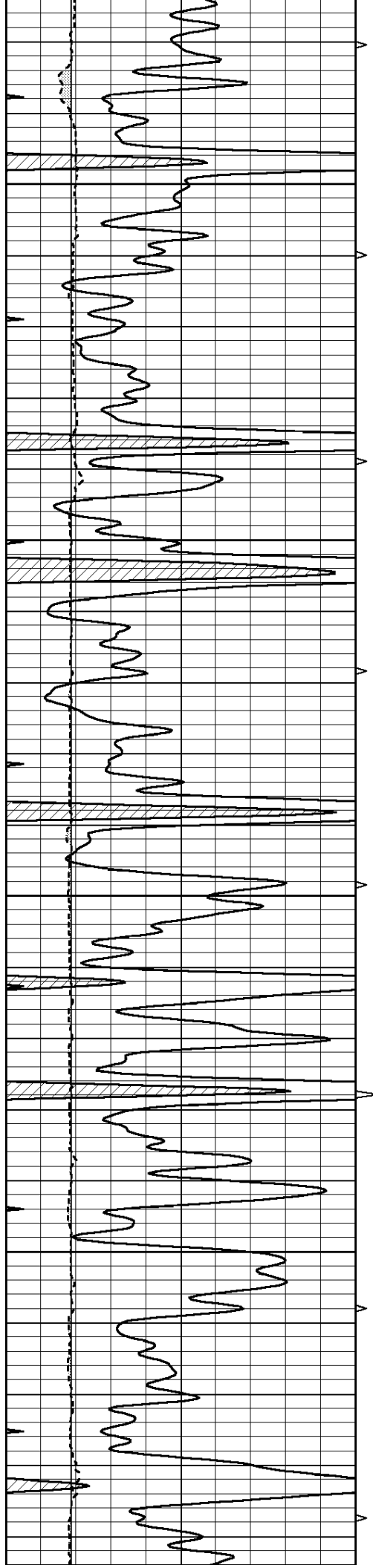










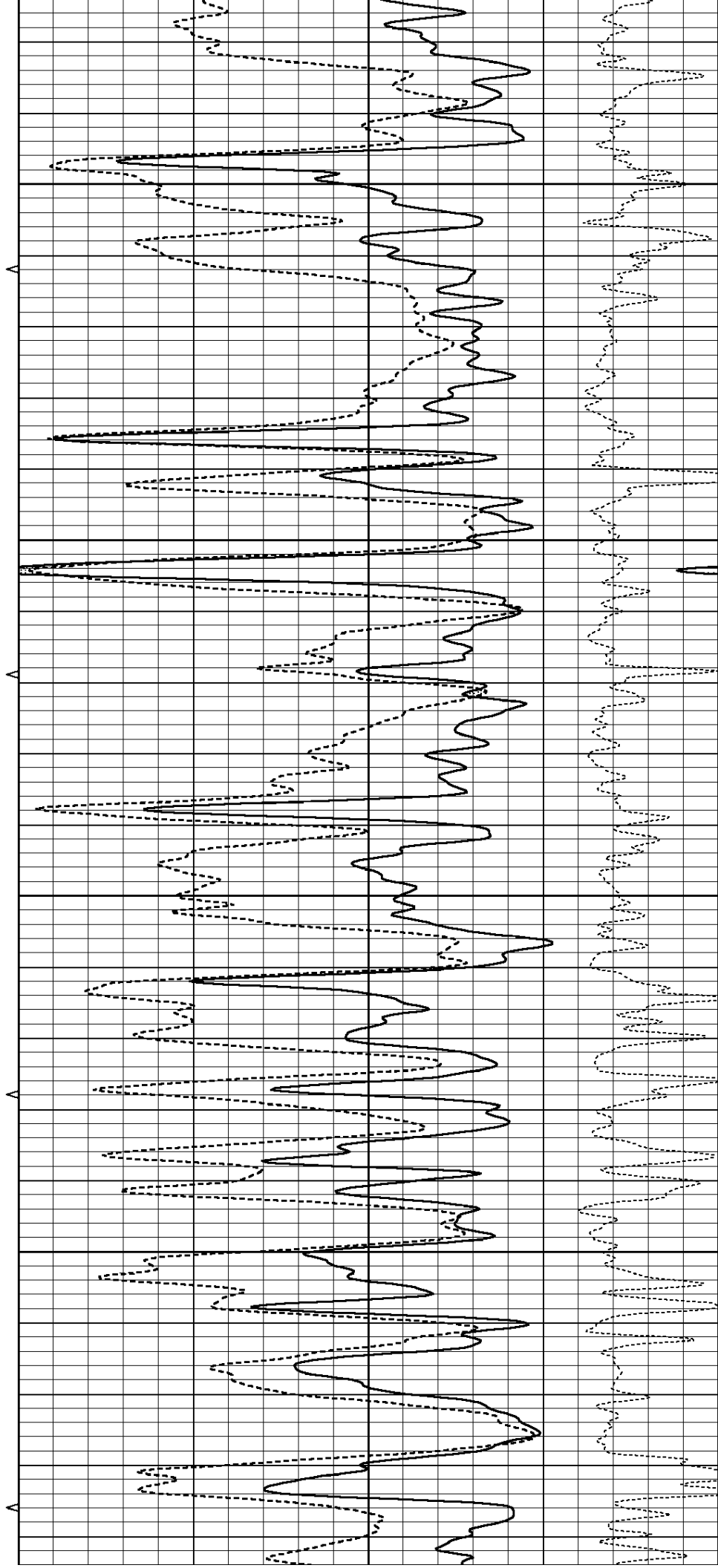


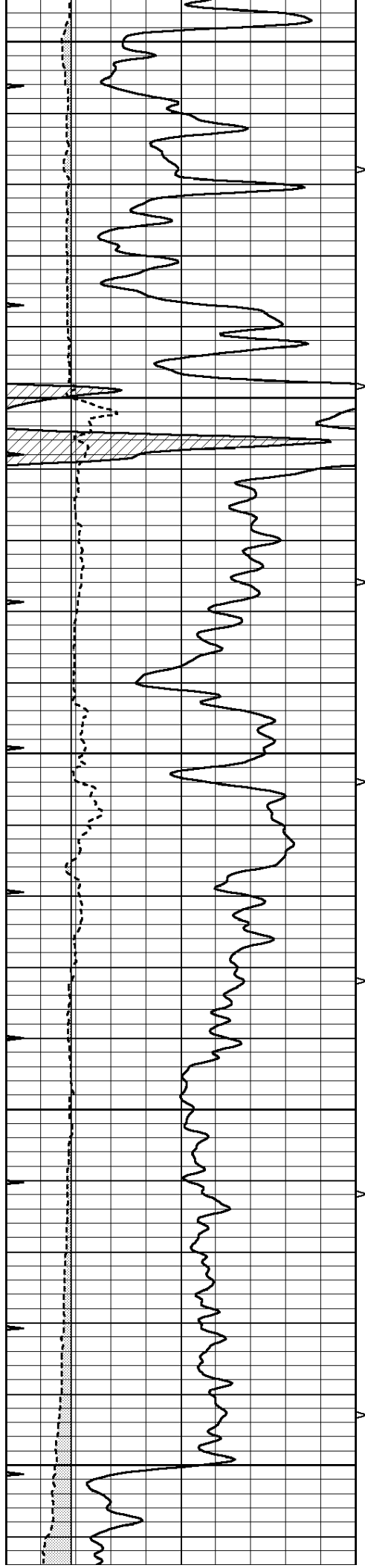
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