



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company	LOTUS OPERATING COMPANY, LLC.		
Well	#3 ACHENBACH		
Field	HARDTNER		
County	BARBER		
State	KANSAS		
Company	LOTUS OPERATING COMPANY, INC.		
Well	#3 ACHENBACH		
Field	HARDTNER		
County	BARBER		
State	KANSAS		
Location:	API # : 15-007-24019-0000		
	965' FSL & 905' FWL		
	SEC 1 TWP 35S RGE 13W		
Permanent Datum	GROUND LEVEL	Elevation	1505
Log Measured From	KELLY BUSHING 13' A.G.L.		
Drilling Measured From	KELLY BUSHING		
		Other Services	CDL/CNL/PE DIL/MEL/FF
		Elevation	K.B. 1518 D.F. 1516 G.L. 1505
Date	5/14/13		
Run Number	TWO		
Depth Driller	5675		
Depth Logger	5675		
Bottom Logged Interval	5663		
Top Log Interval	3600		
Casing Driller	8 5/8"@274'		
Casing Logger	290		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,000 PPM	
Density / Viscosity	9.6/55		
pH / Fluid Loss	9.0/9.6		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.800@92F		
Rinf @ Meas. Temp	.600@92F		
Rinc @ Meas. Temp	.960@92F		
Source of Rinf / Rinc	MEASUREMENT		
Rin @ BHT	.562@131F		
Time Circulation Stopped	5.5 HOURS		
Time Logger on Bottom	2:15 P.M.		
Maximum Recorded Temperature	131F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TIM HELLMAN		

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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
HARDTNER, KS., 2W. TO "GYF HILL RD.", 1N., E. INTO



NABORS
COMPLETION
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MAIN SECTION

Database File:

010905pe.db

Dataset Pathname:

pass7.3

Presentation Format:

slt

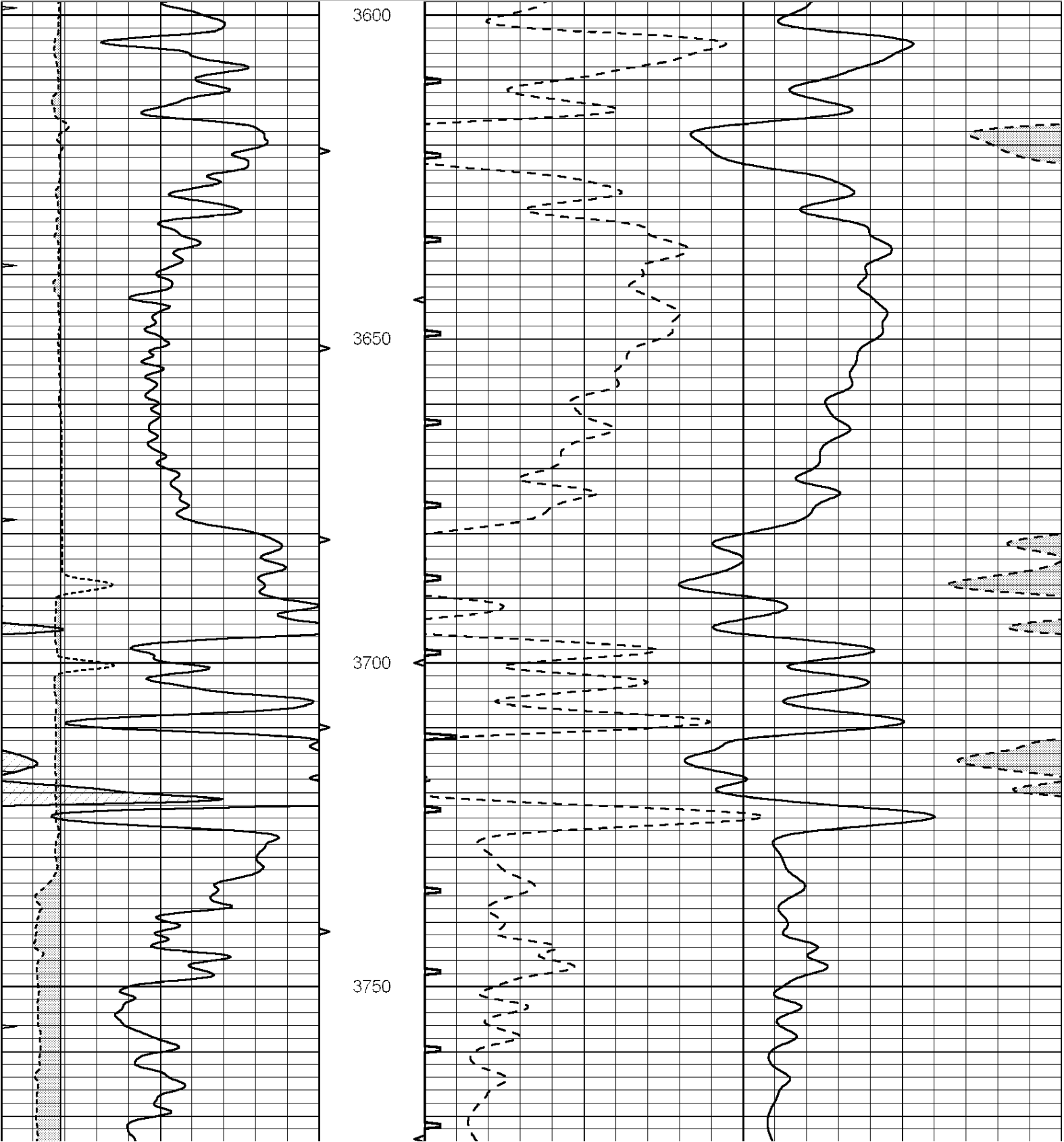
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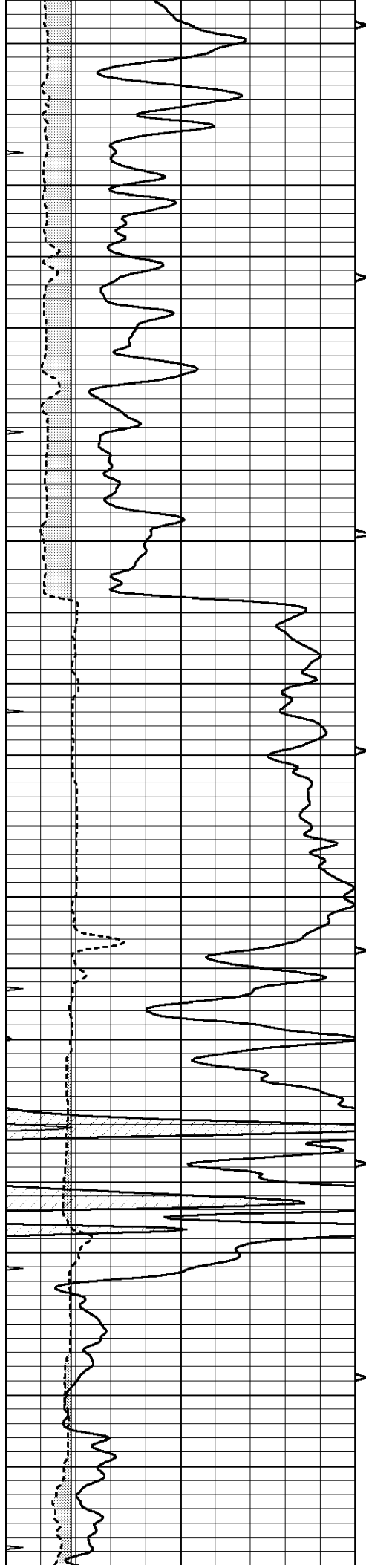
Tue May 14 18:56:46 2013

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	
			0 (ft3) 10				



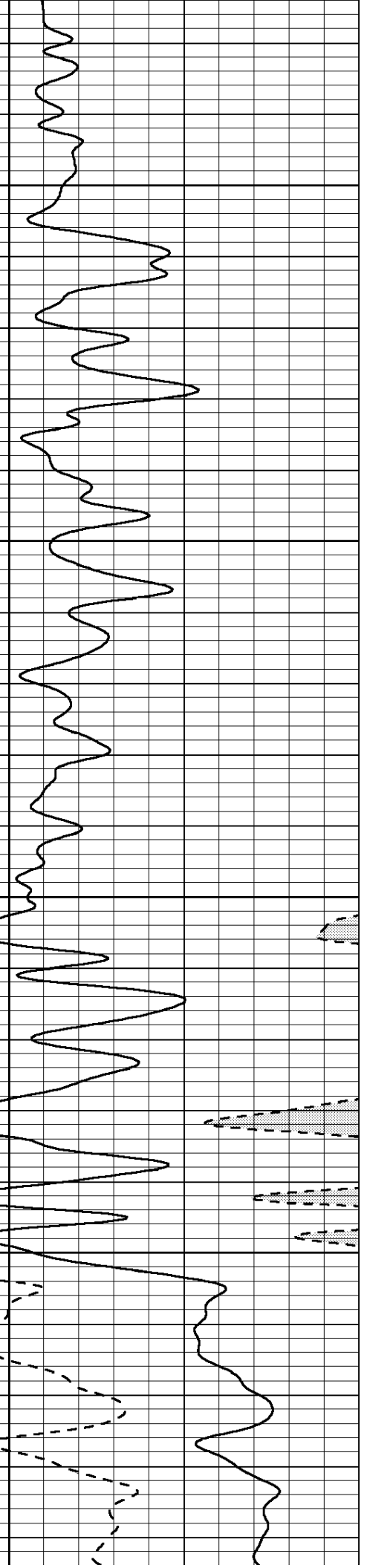
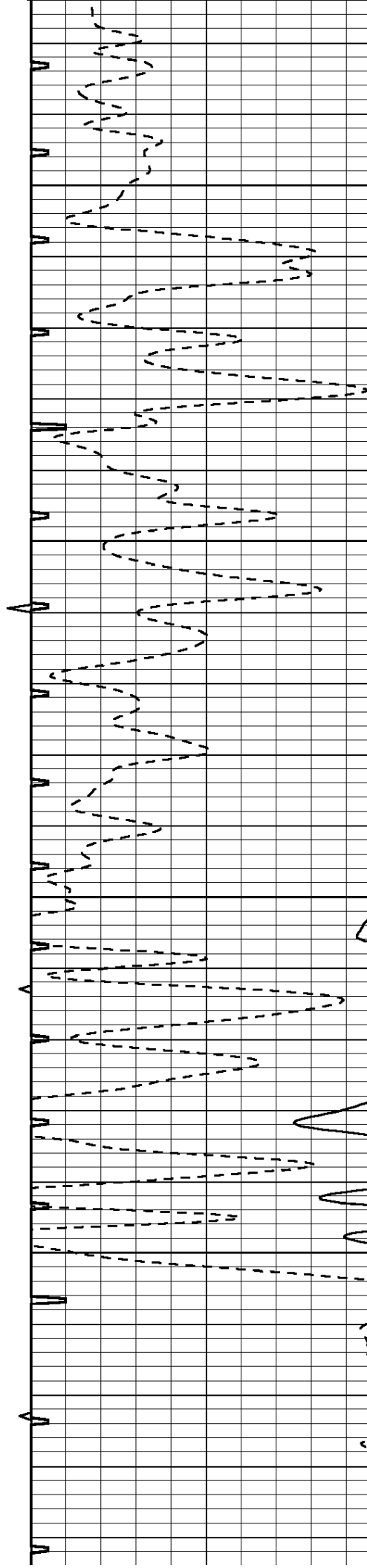


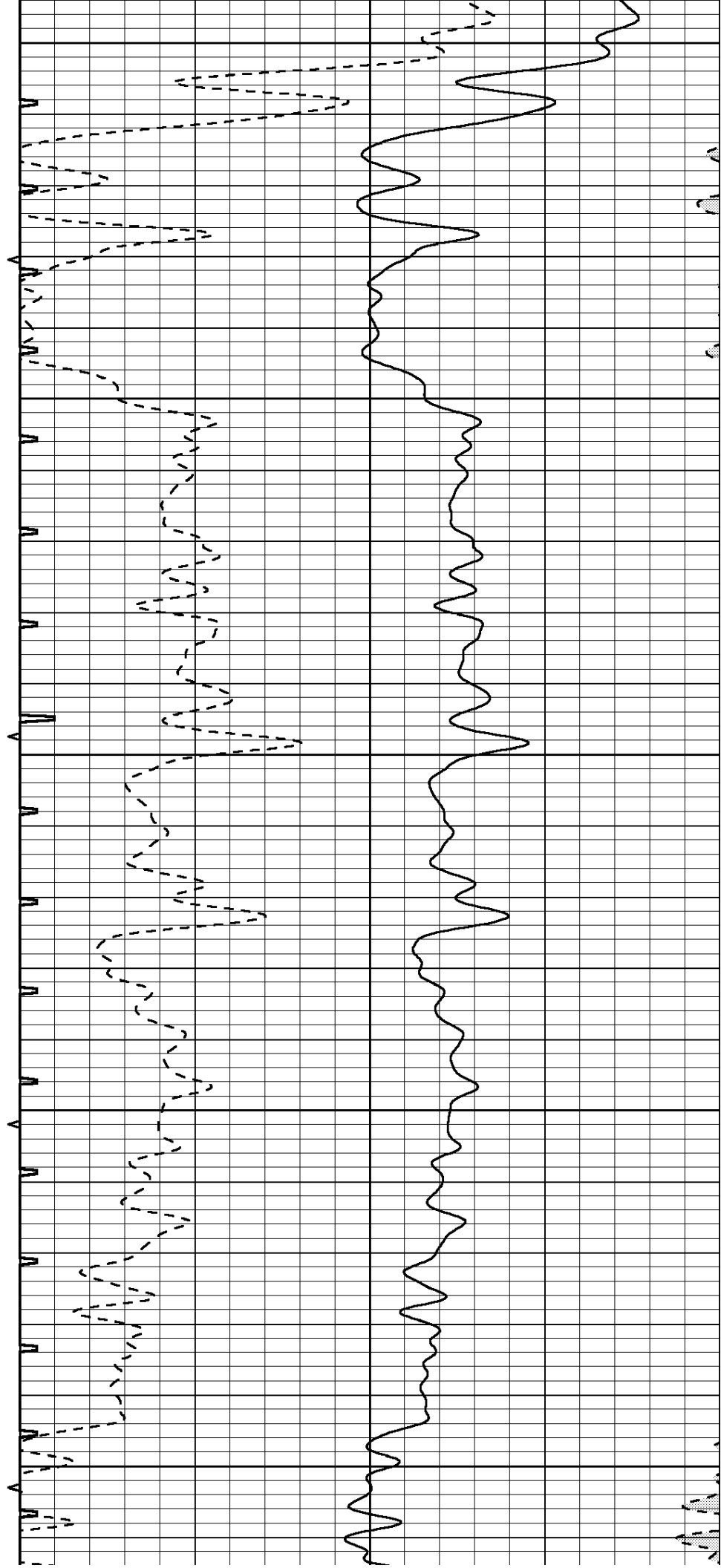
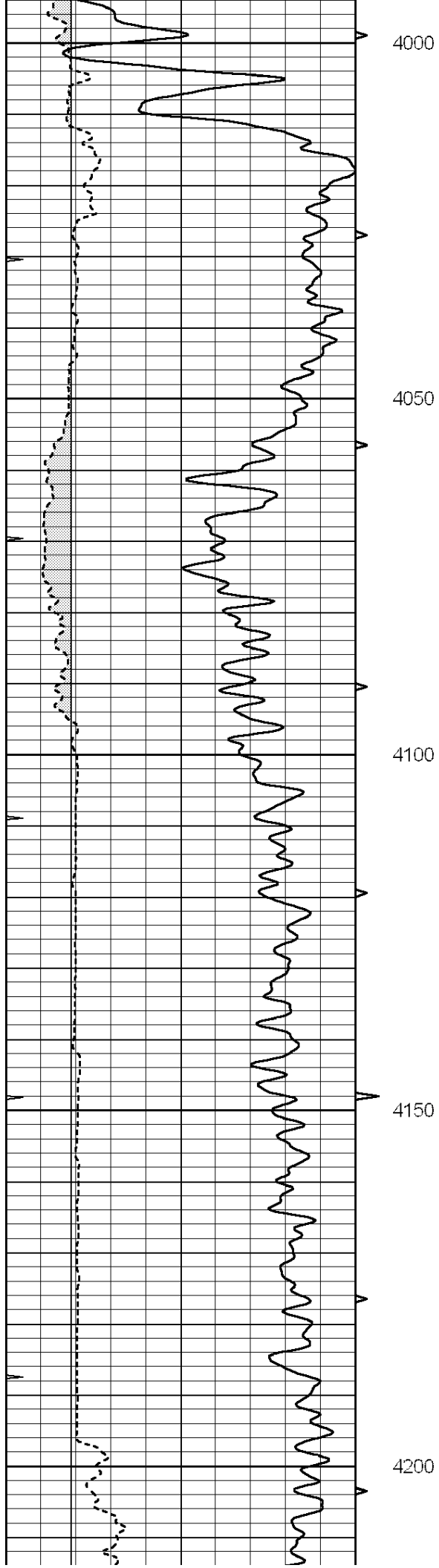
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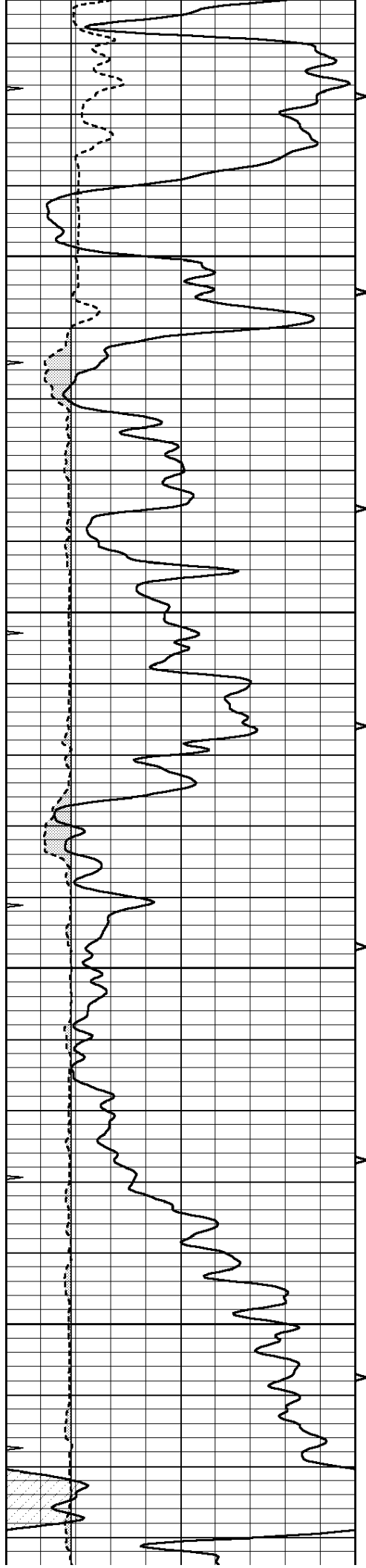
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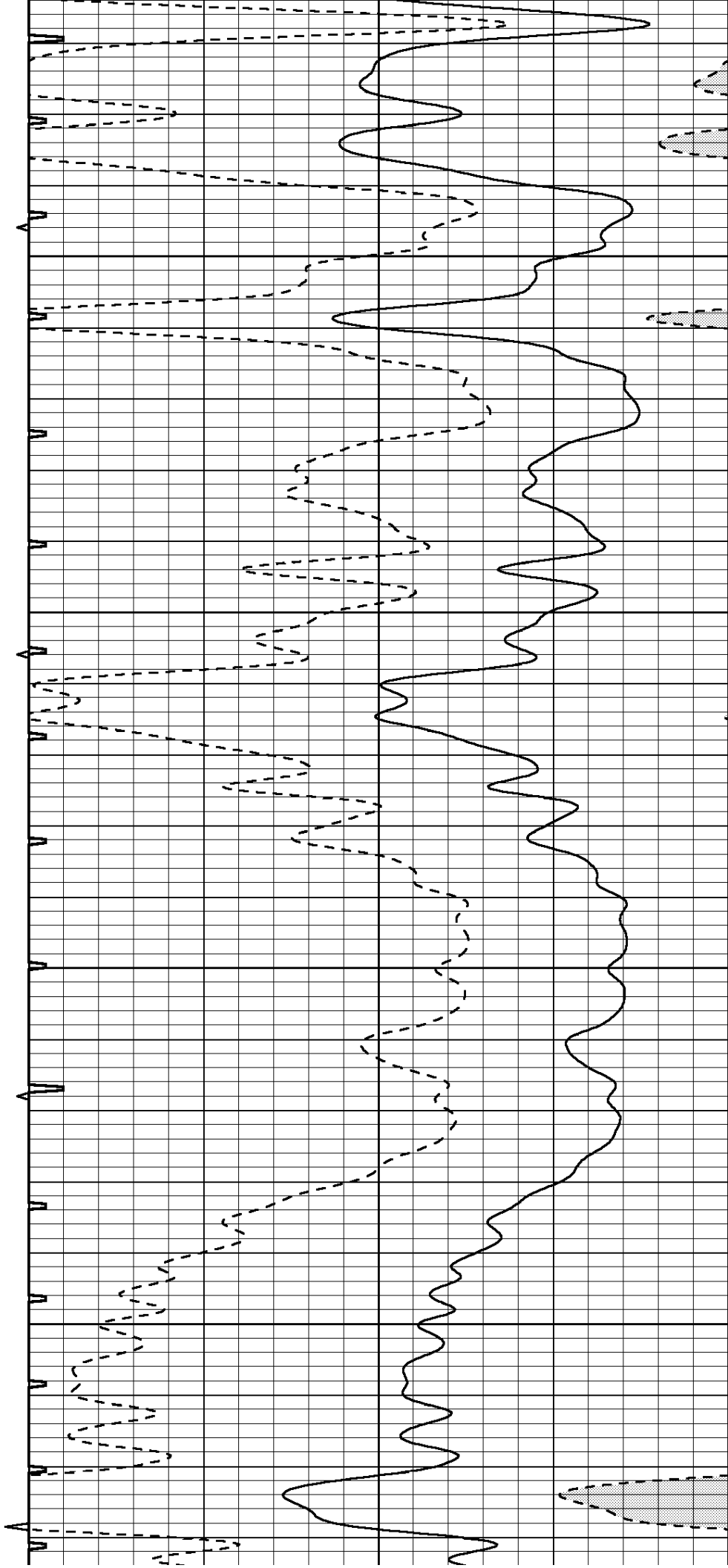


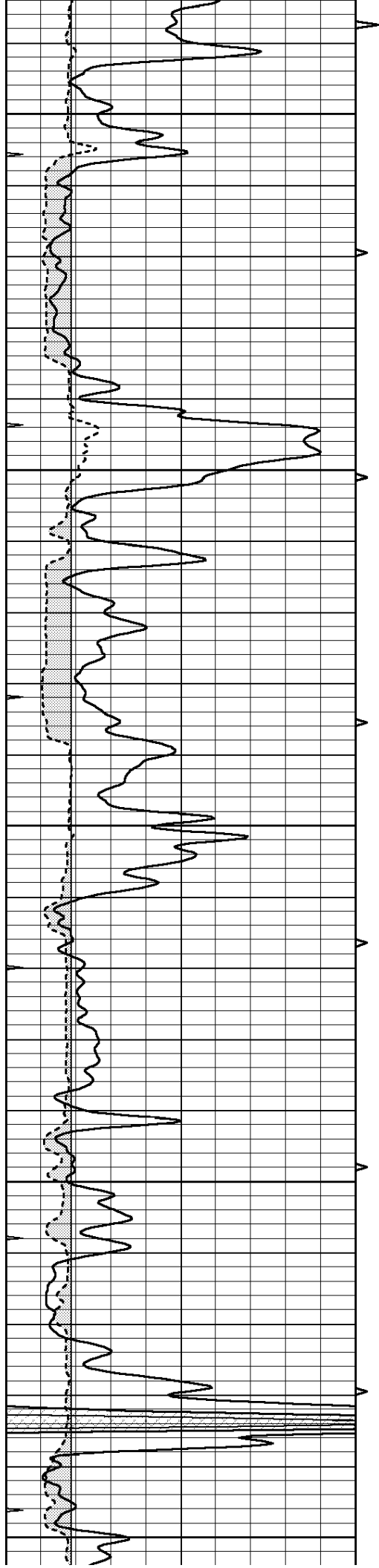
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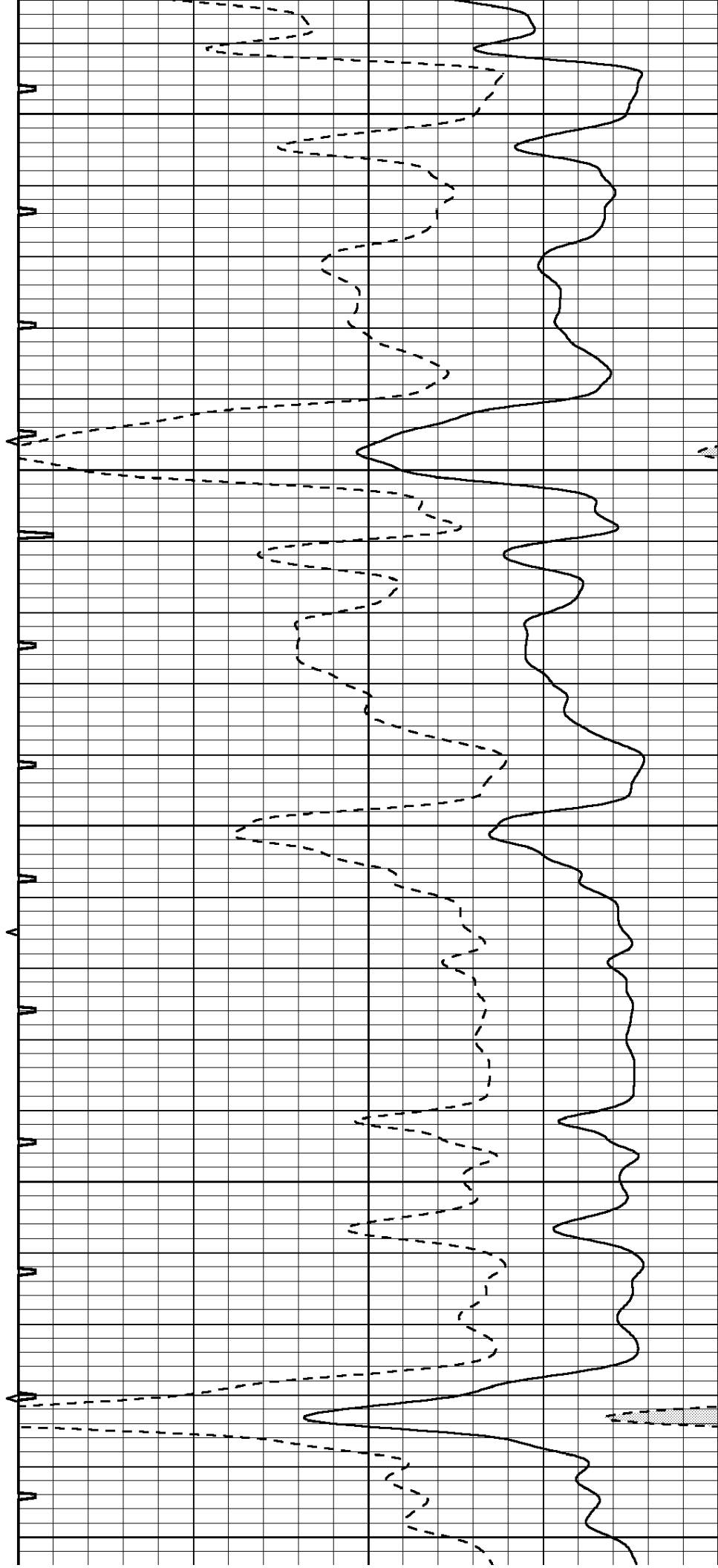
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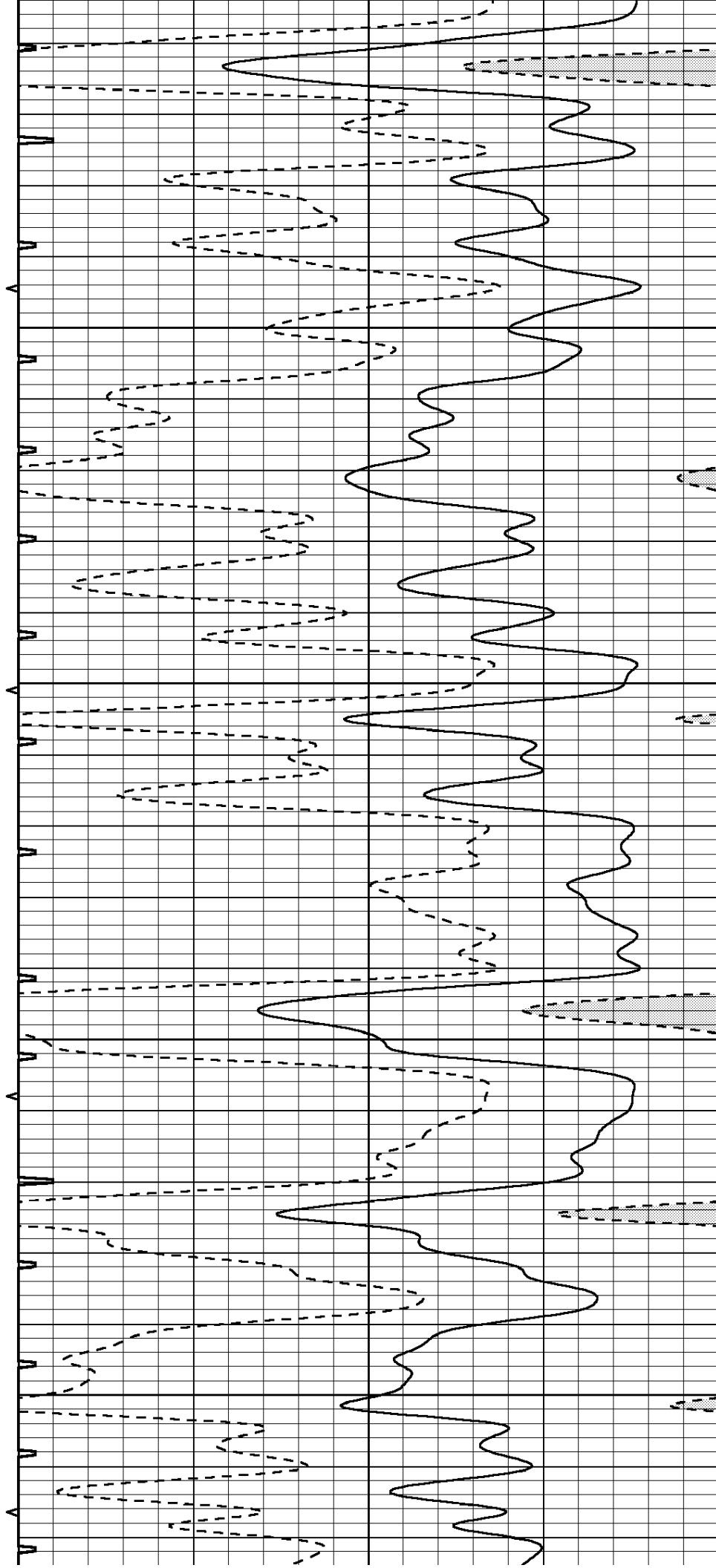


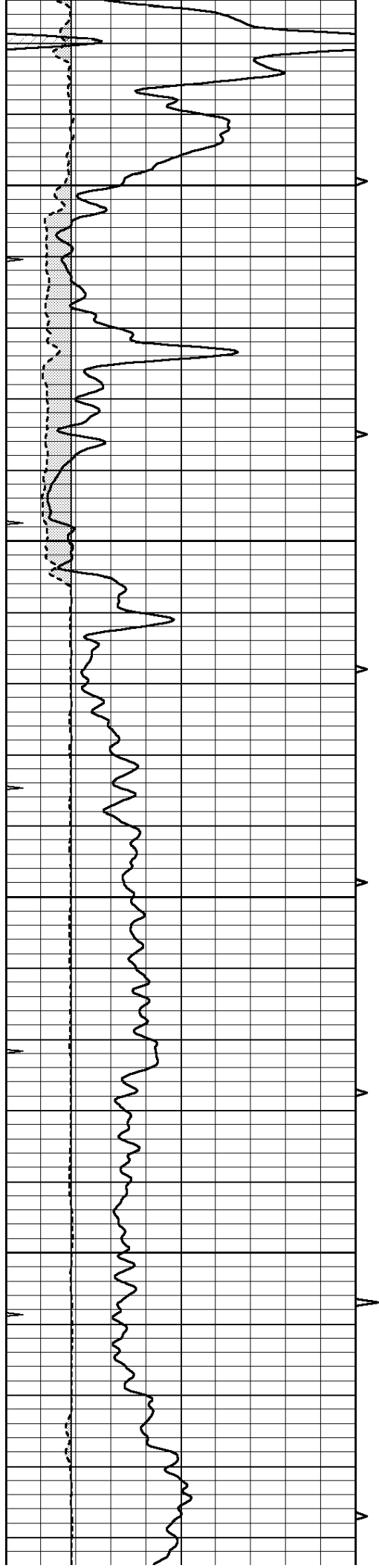
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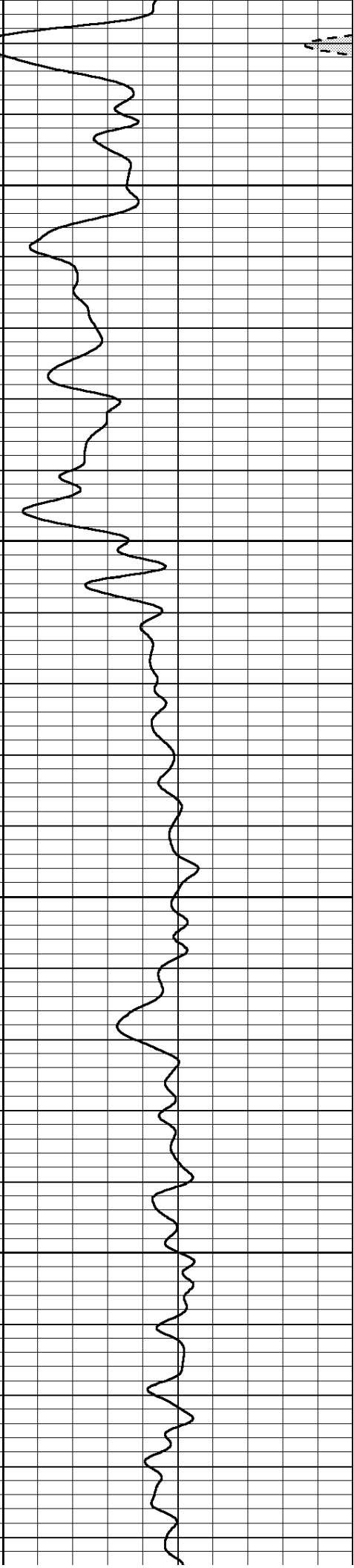
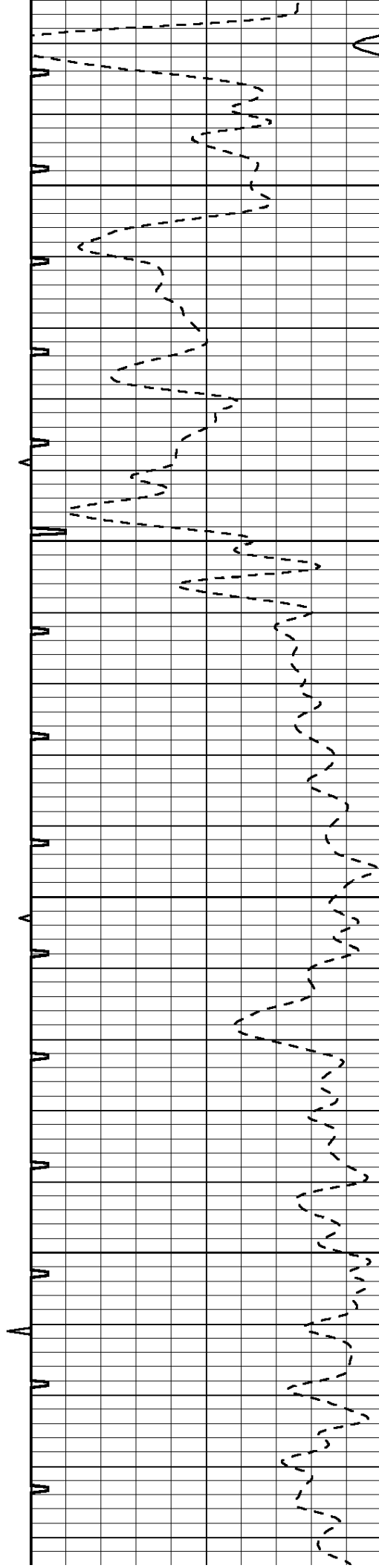


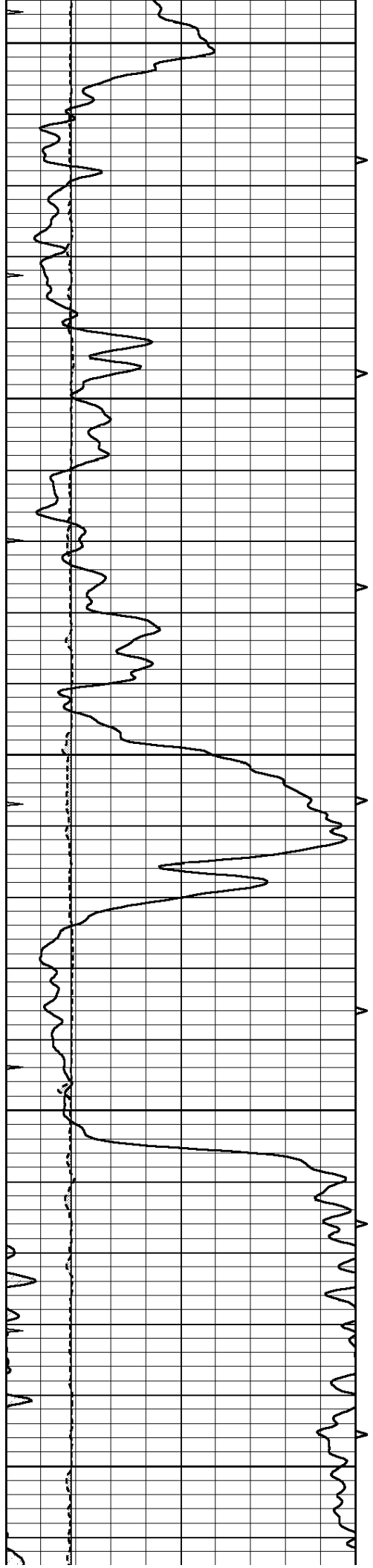
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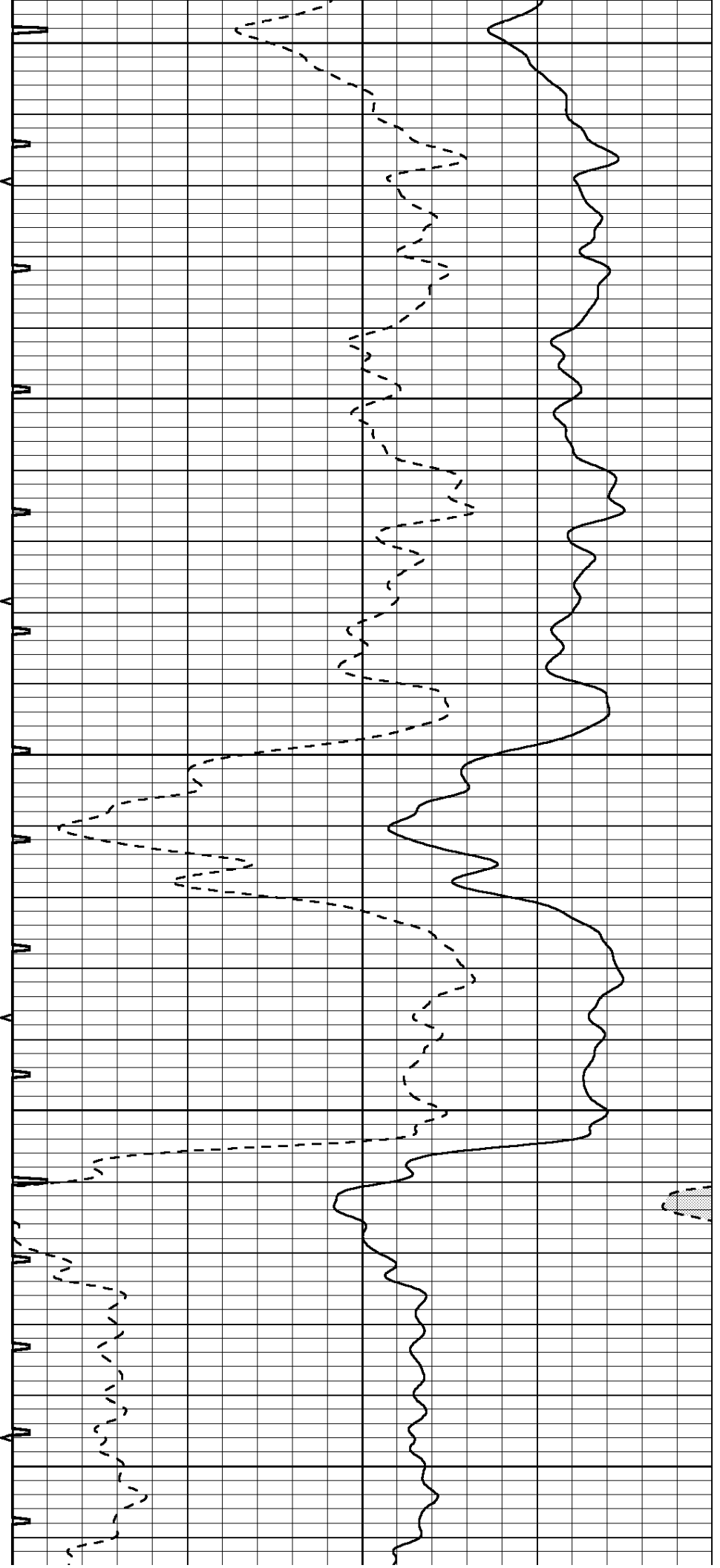
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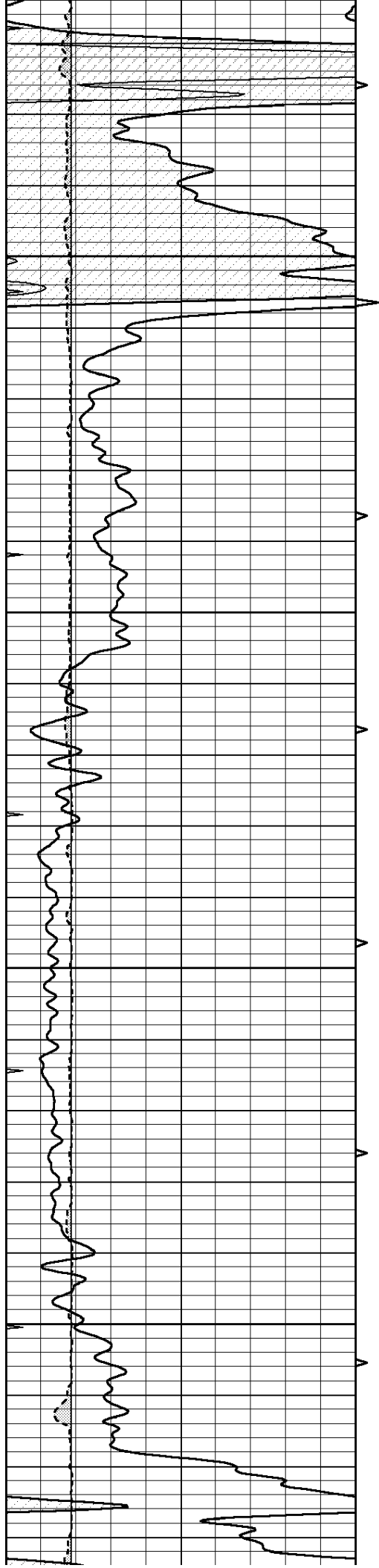
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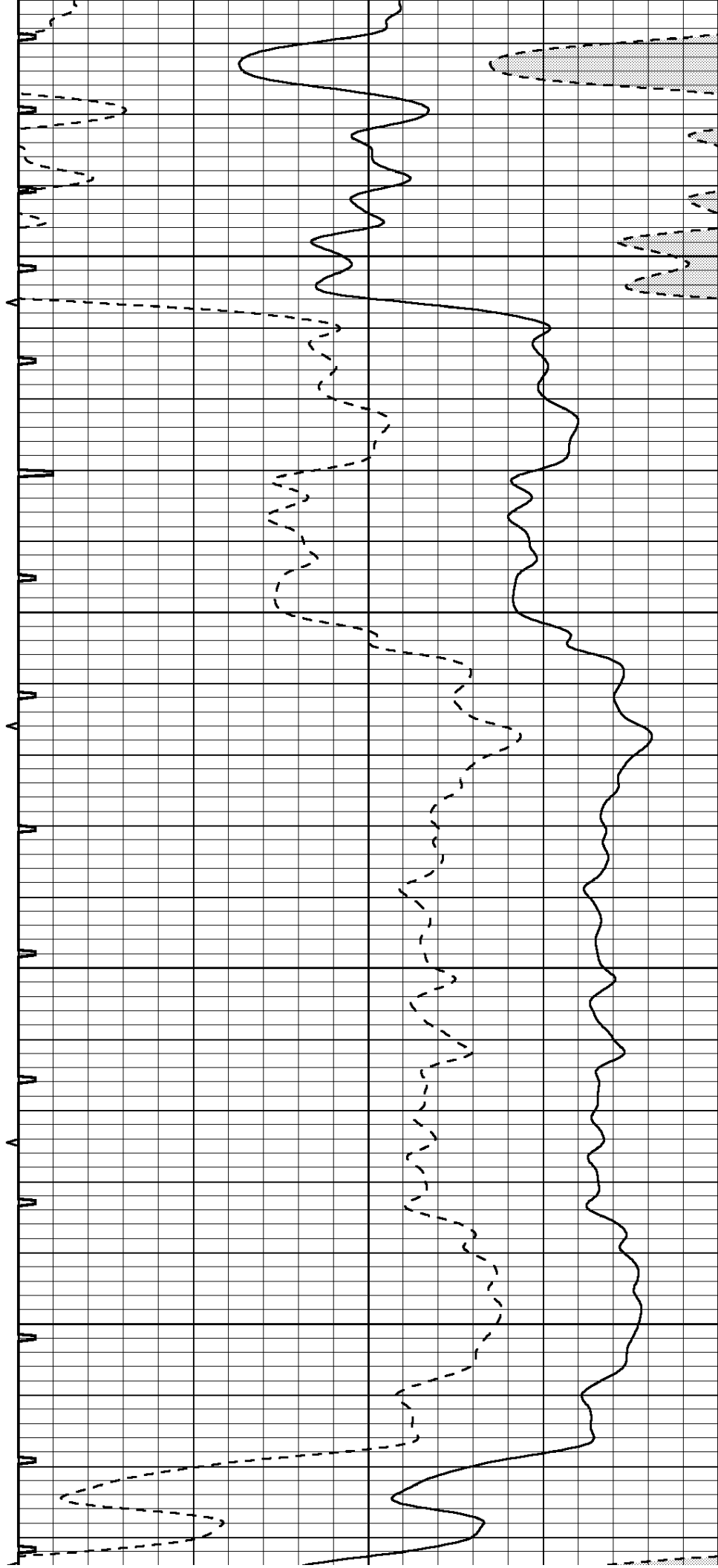


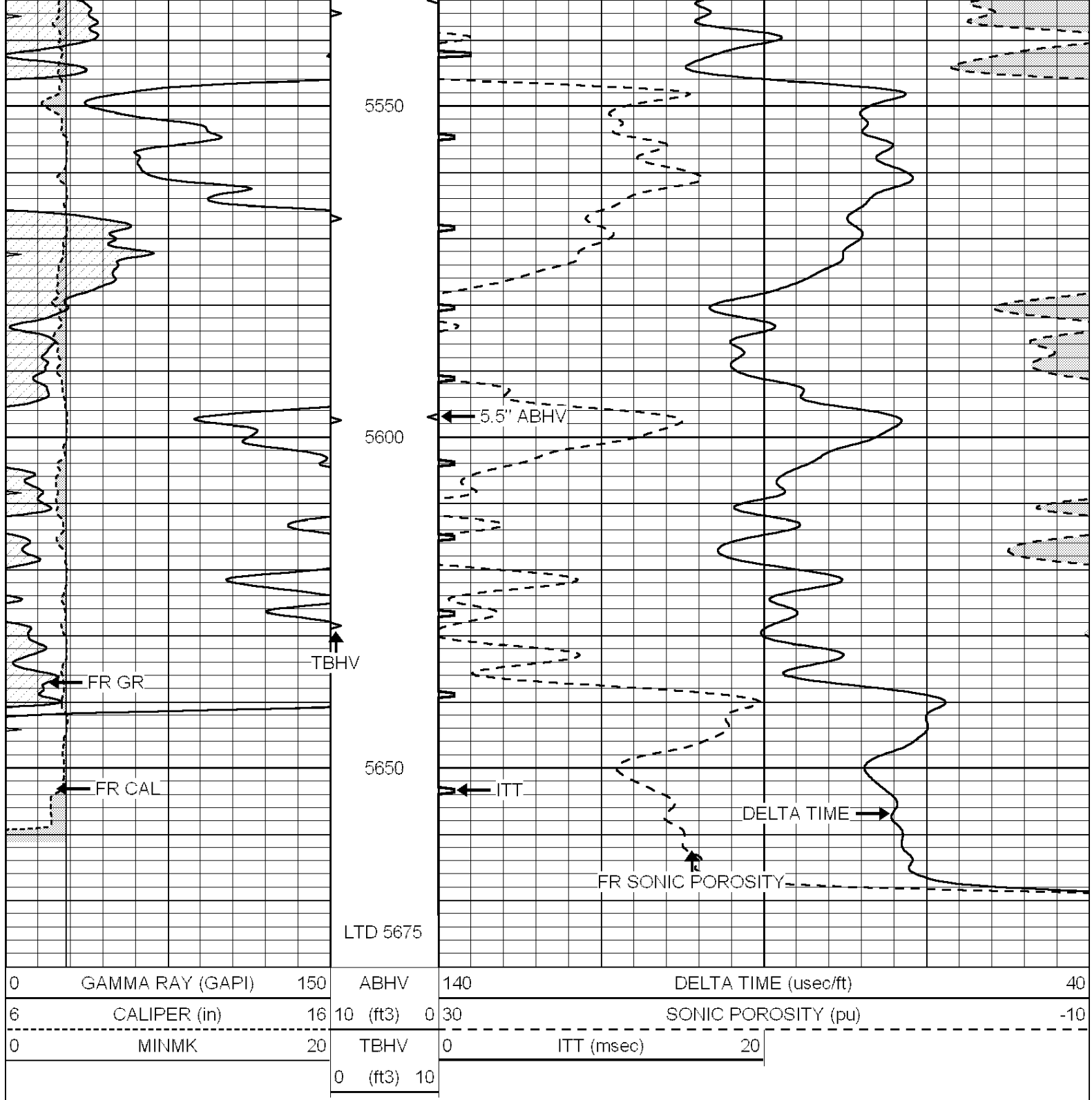
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REPEAT SECTION

Database File: 010905pe.db
Dataset Pathname: pass6.2
Presentation Format: slt
Dataset Creation: Tue May 14 18:04:04 2013
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
			0 (ft3) 10			

