



**Casedhole
Solutions**

**SONIC
LOG**

Company		SHELBY RESOURCES, LLC.	
Well		FROETSCHNER #1-3	
Field		WILDCAT	
County		PAWNEE	
State		KANSAS	
Location:		APL # : 15-145-21813-0000	
SEC 3 TWP 22S RGE 17W		SW - SE - NE - SE 1619' FSL & 403' FEL	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 11' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		K.B. 2031 D.F. 2029 G.L. 2020	
Date	11/23/15		
Run Number	TWO		
Depth Driller	4155		
Depth Logger	4156		
Bottom Logged Interval	4148		
Top Log Interval	1000		
Casing Driller	8 5/8"@1061'		
Casing Logger	1061		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,400 PPM	
Density / Viscosity	9.5/56		
pH / Fluid Loss	9.0/9.2		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.800@70F		
Rmf @ Meas. Temp	.600@70F		
Rmc @ Meas. Temp	.960@70F		
Source of Rmf / Rmc	MEASUREMENT		
Rin @ BHT	.479@117F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	12:45 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	22339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CHARLIE STURDAVANT		

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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 C & J ENERGY (CASED HOLE SOLUTIONS) HAYS, KANSAS (785) 628-6395
DIRECTIONS
LARNED, KS., (MAIN ST. & HWY 56) 1 1/2 S.W. ON HWY 56 TO "RD. L", 3 1/2 DUE WEST TO "160TH
RD.", 1N., 1/2E., 1 S. & E. INTO



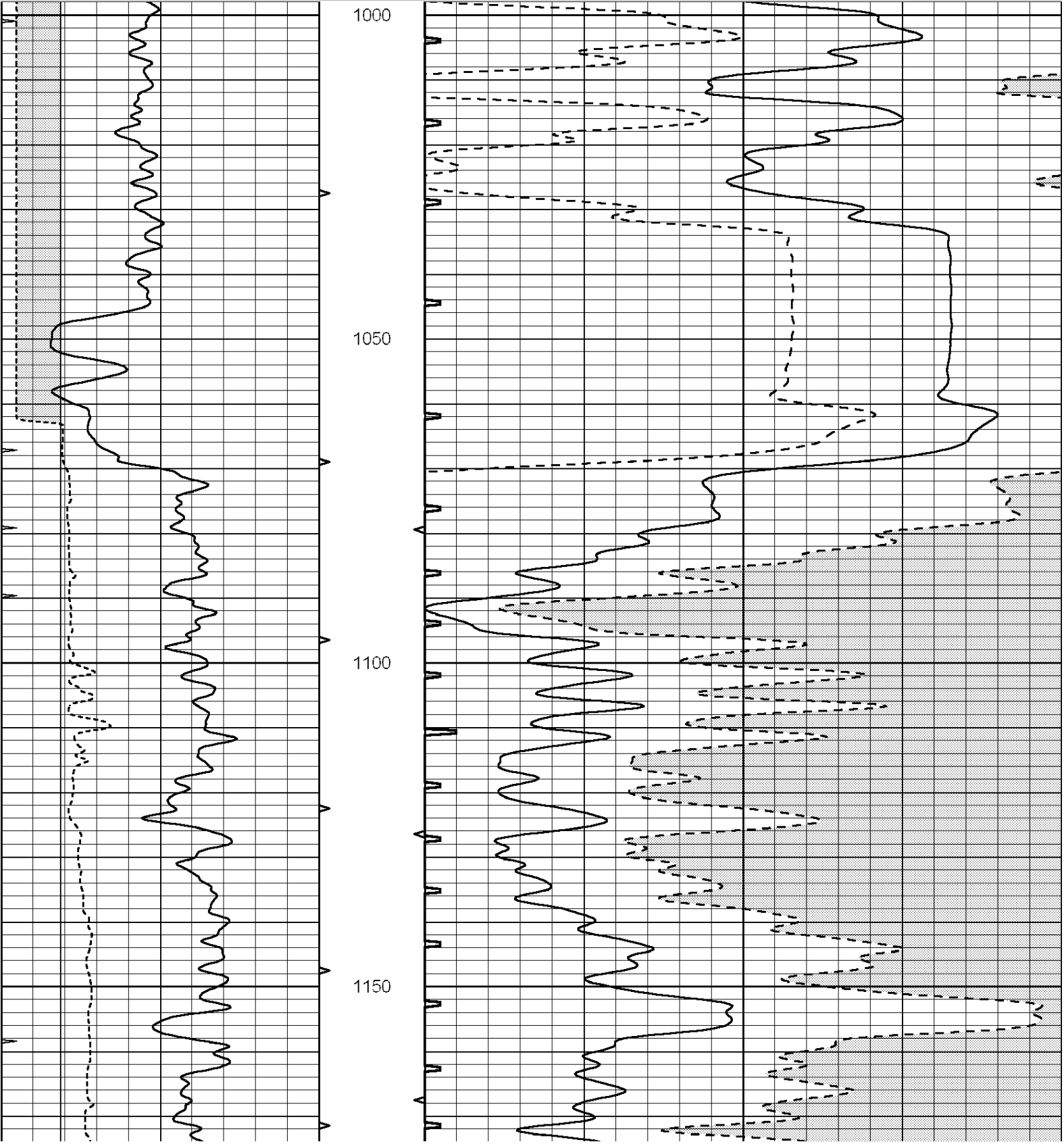
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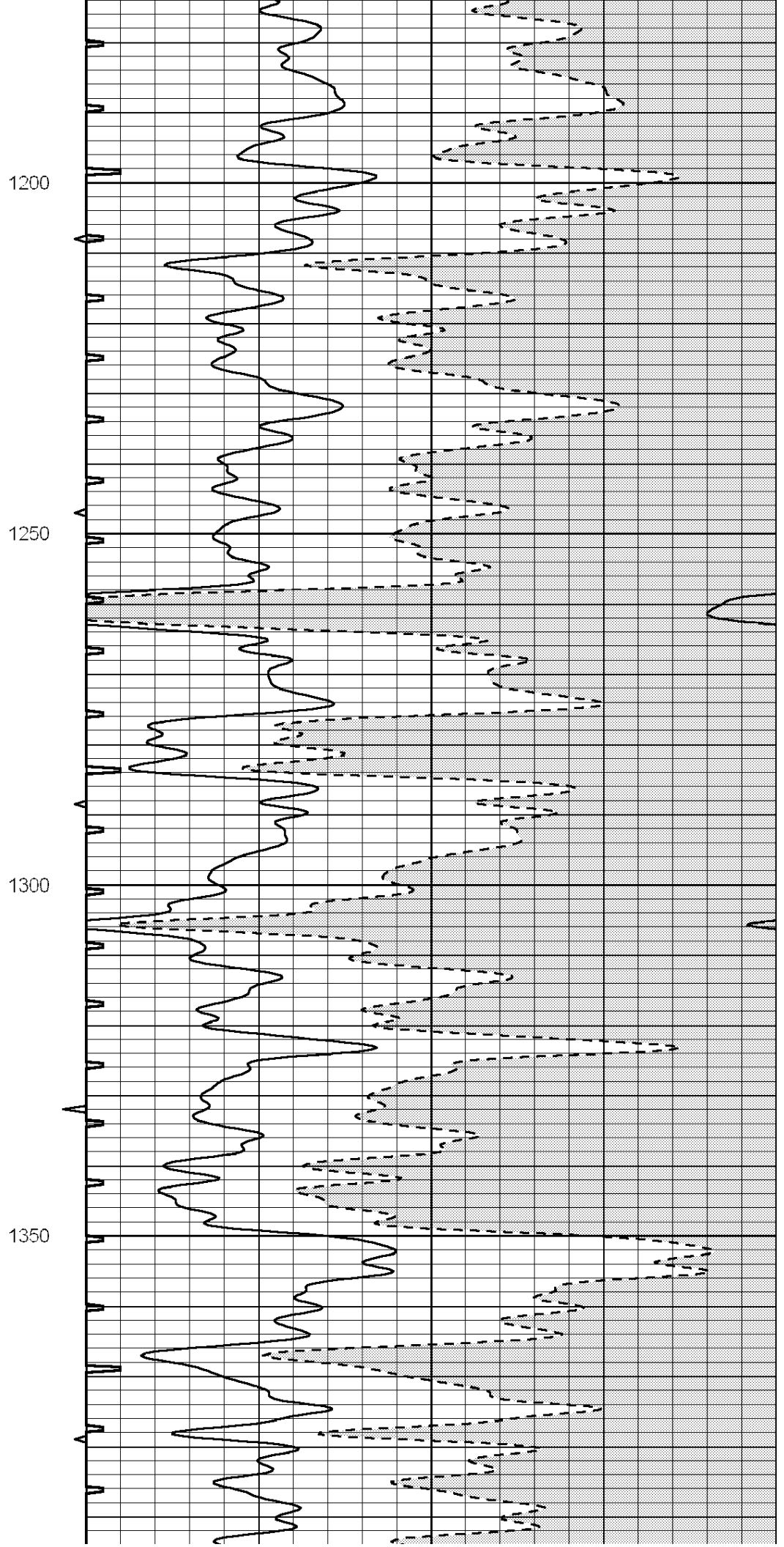
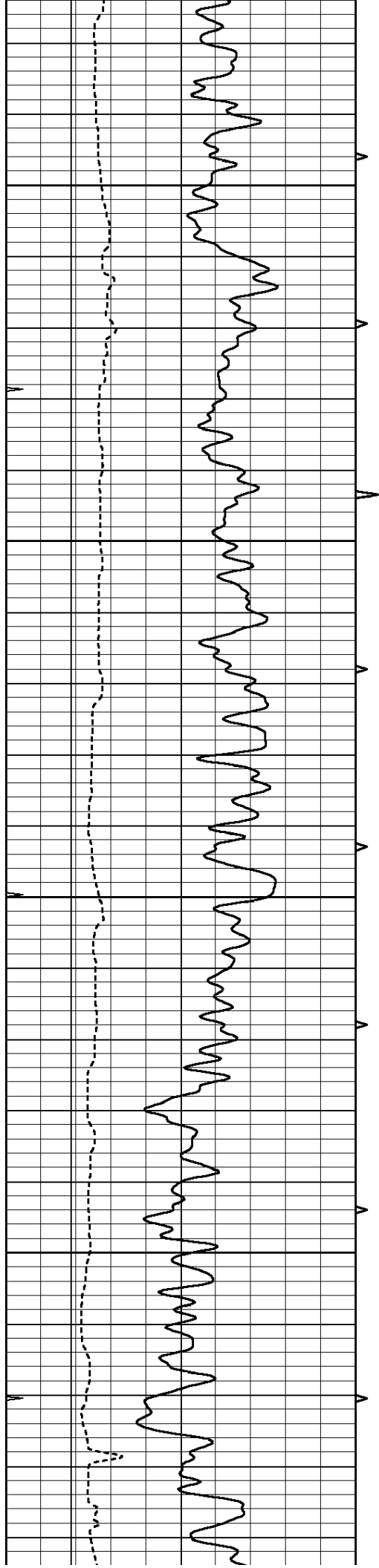
MAIN SECTION

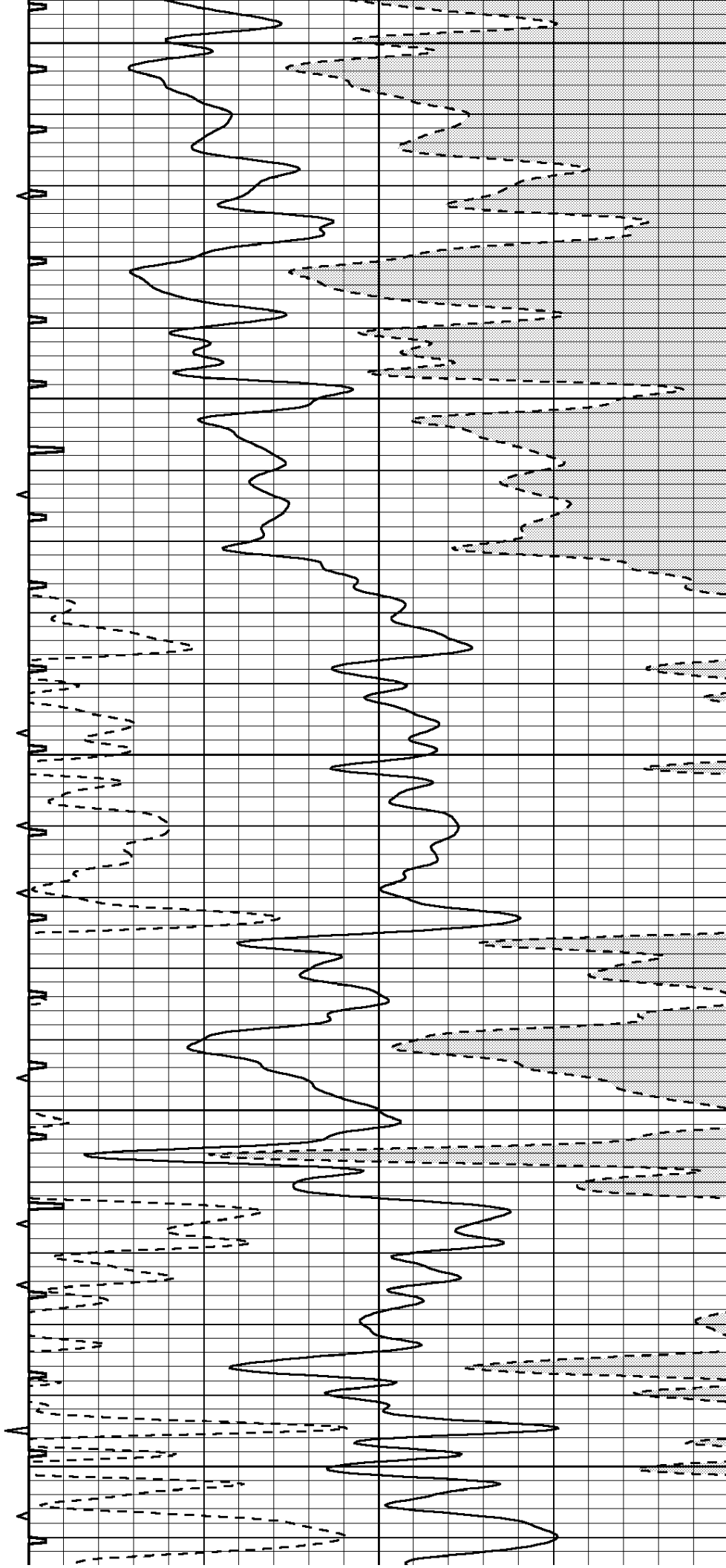
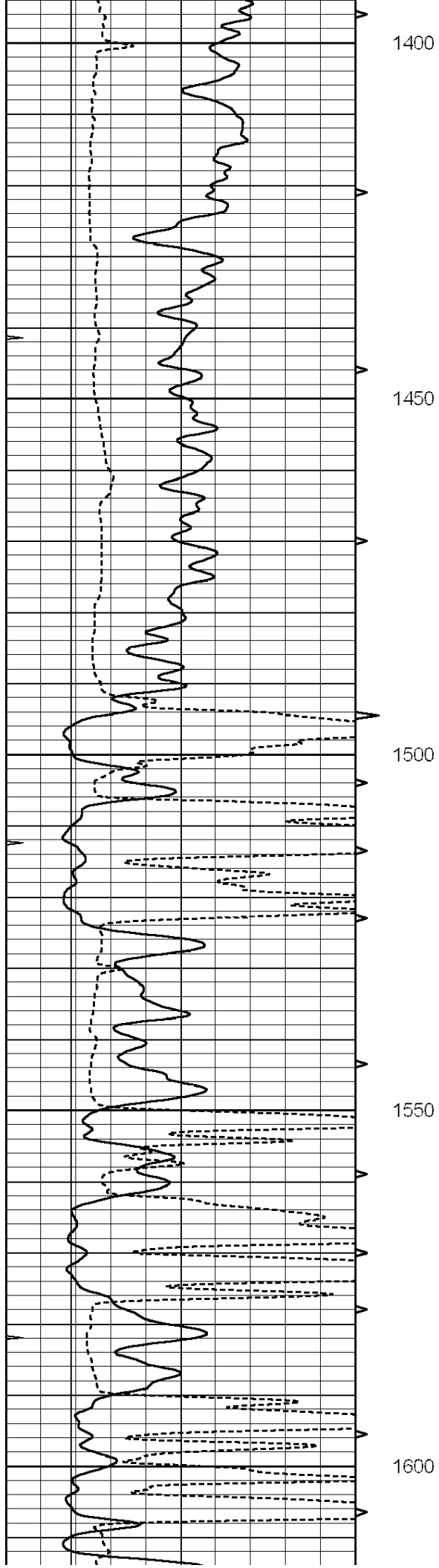
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Presentation Format: slt
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Charted by: Depth in Feet scaled 1:240

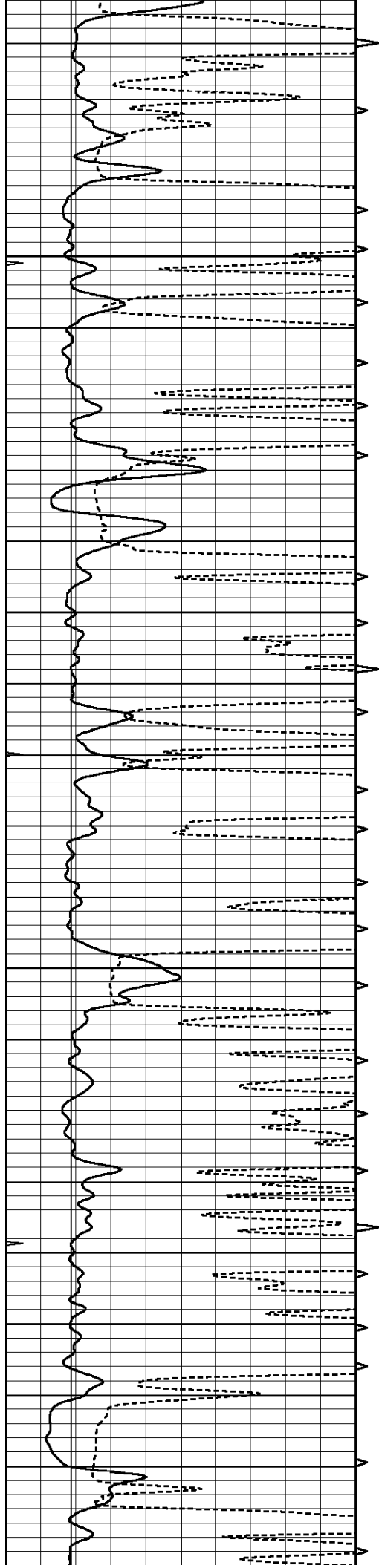
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)		40	
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)		-10

0	MINMK	20	TBHV	0	ITT (msec)		20	
			0 (ft3)	10				







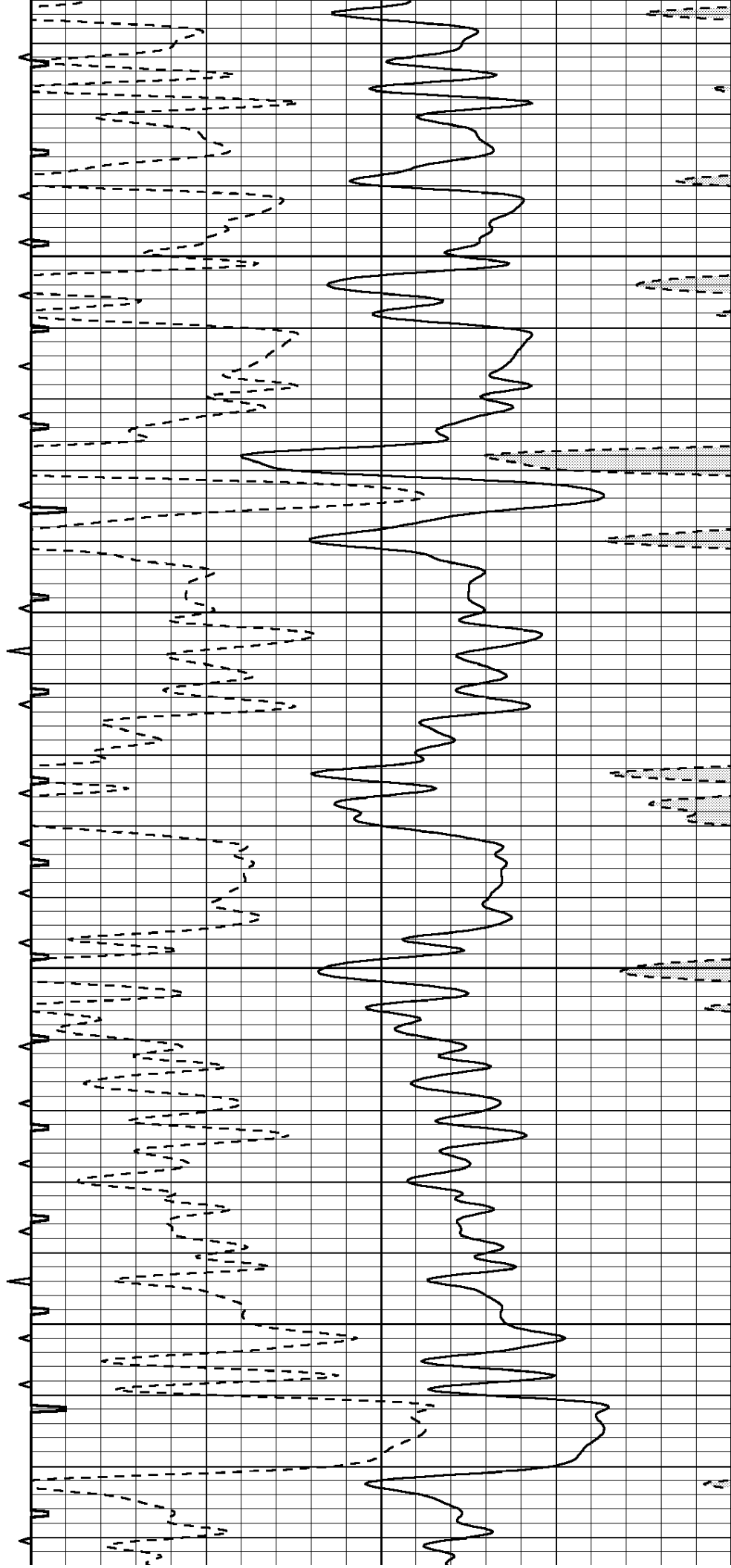


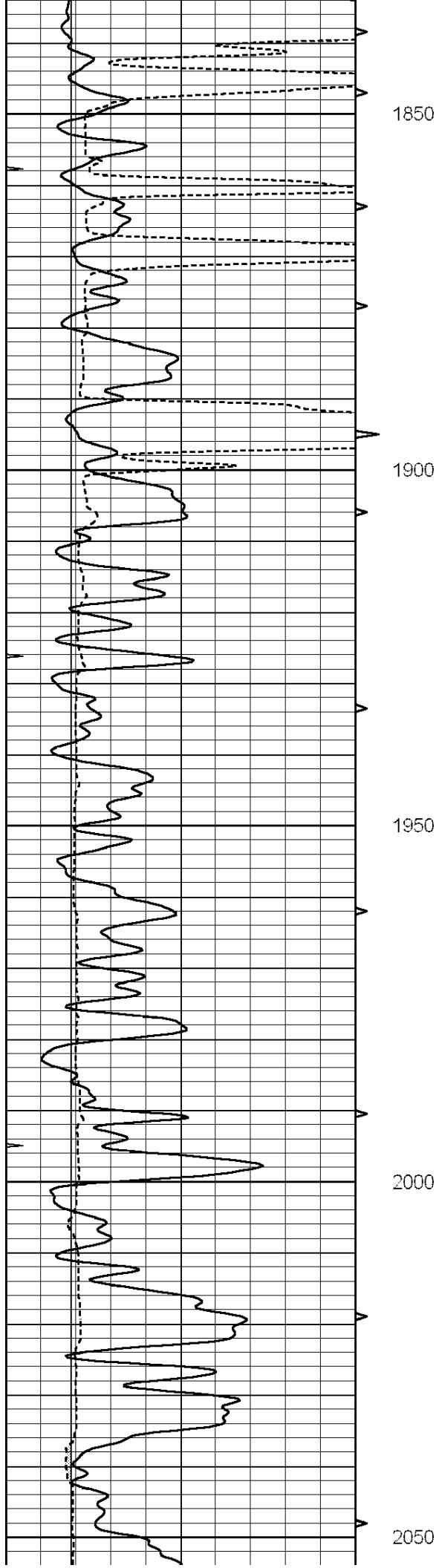
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1700

1750

1800





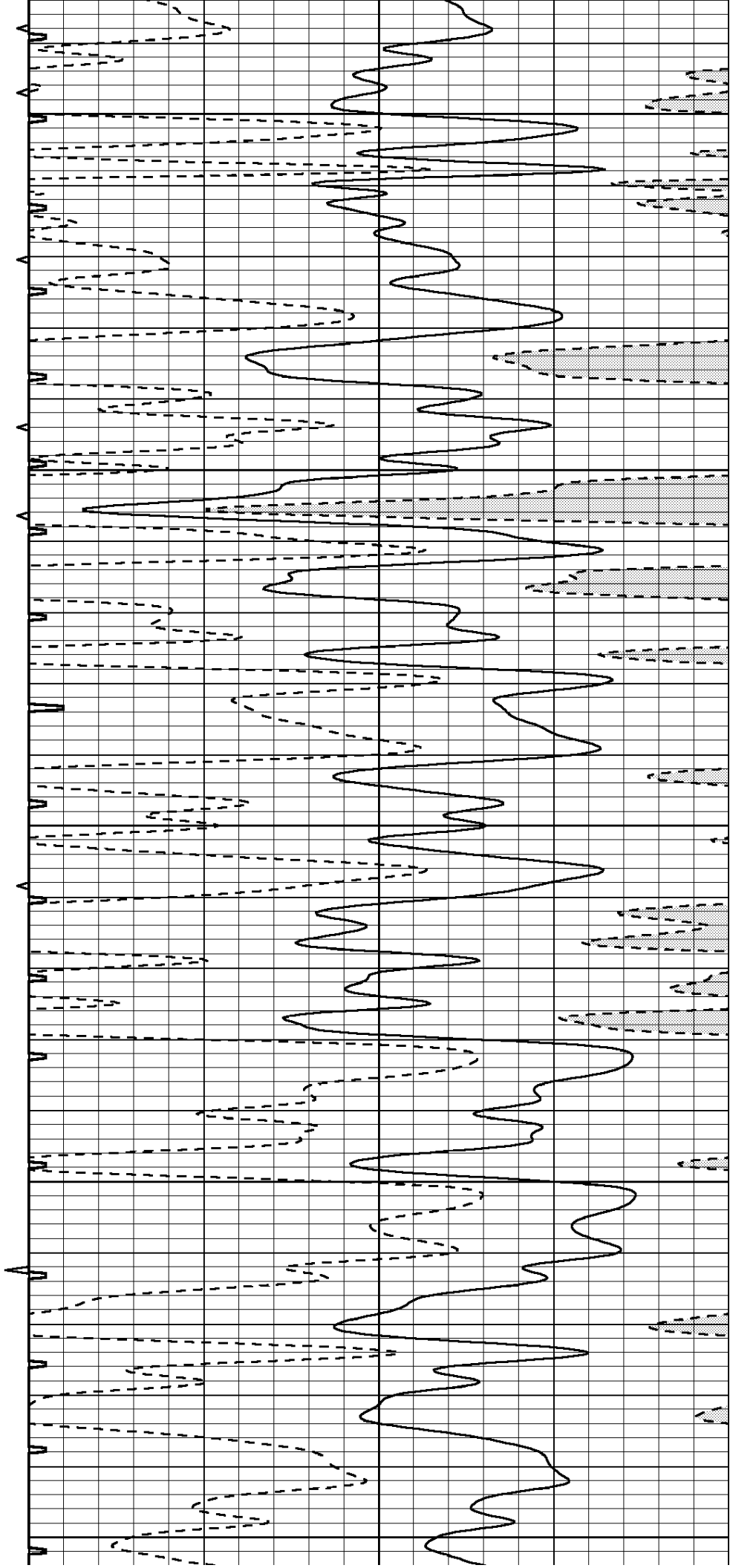
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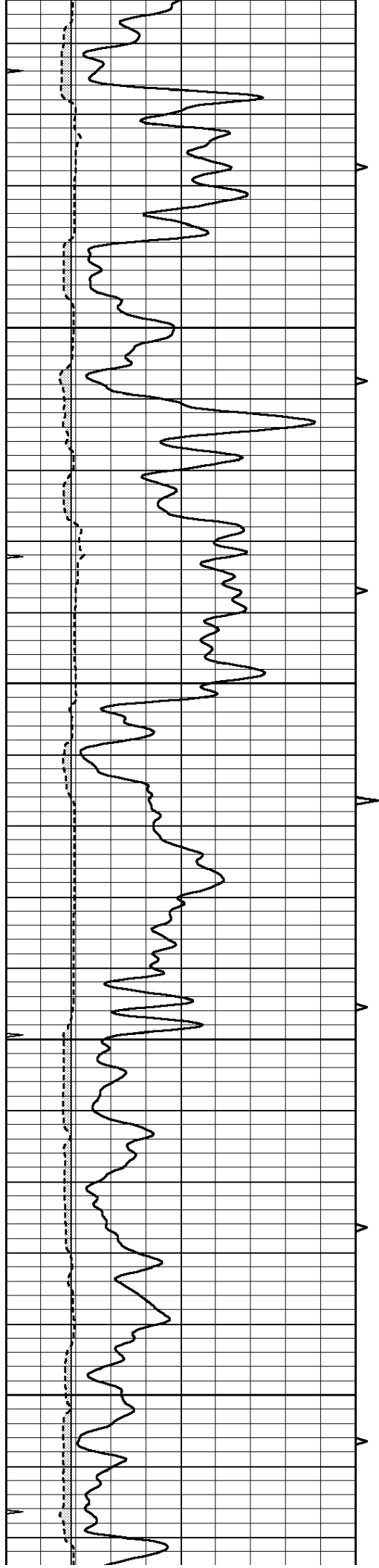
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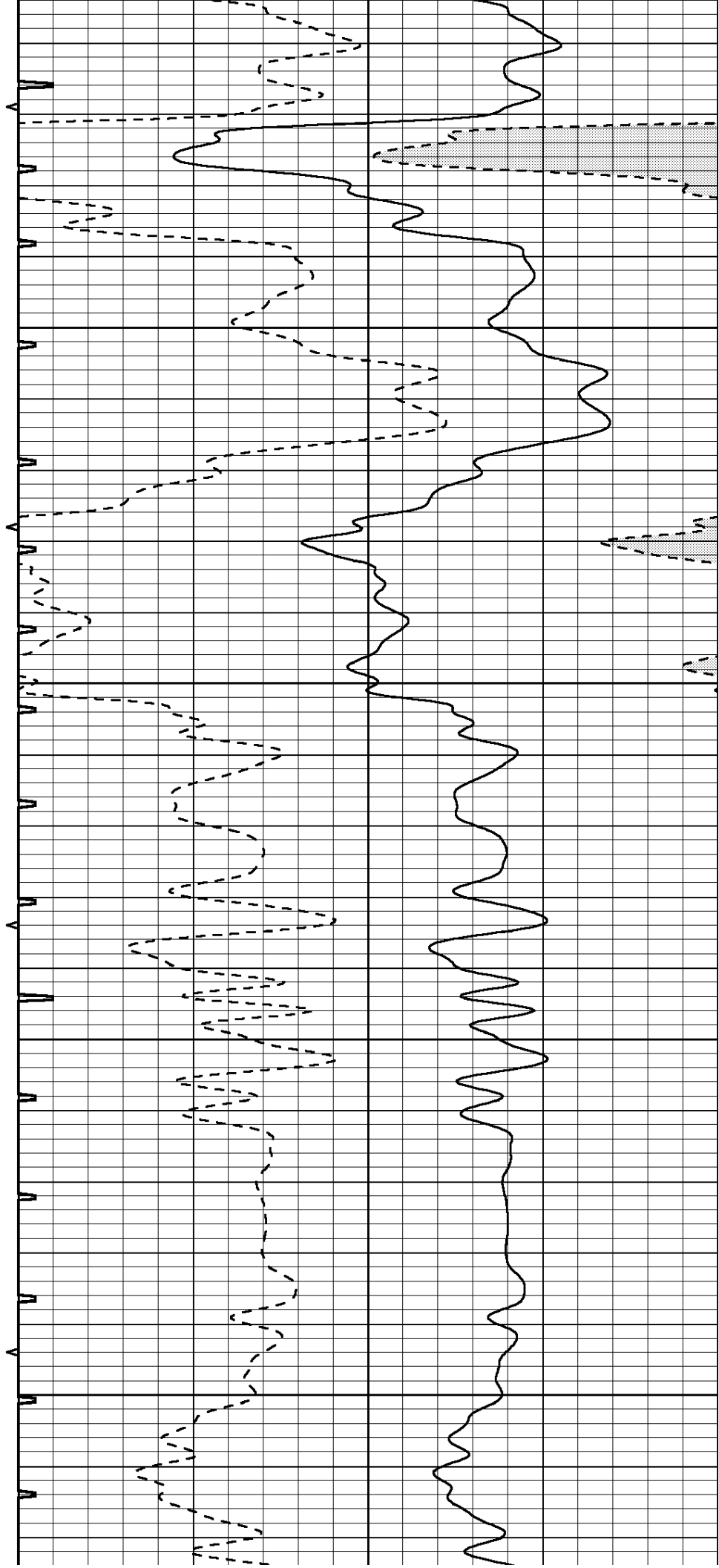


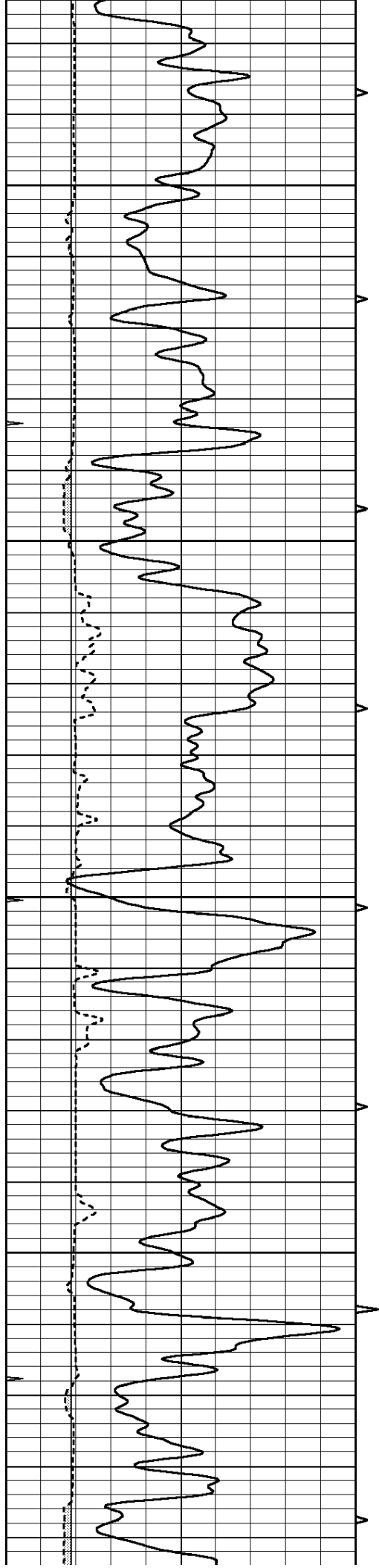
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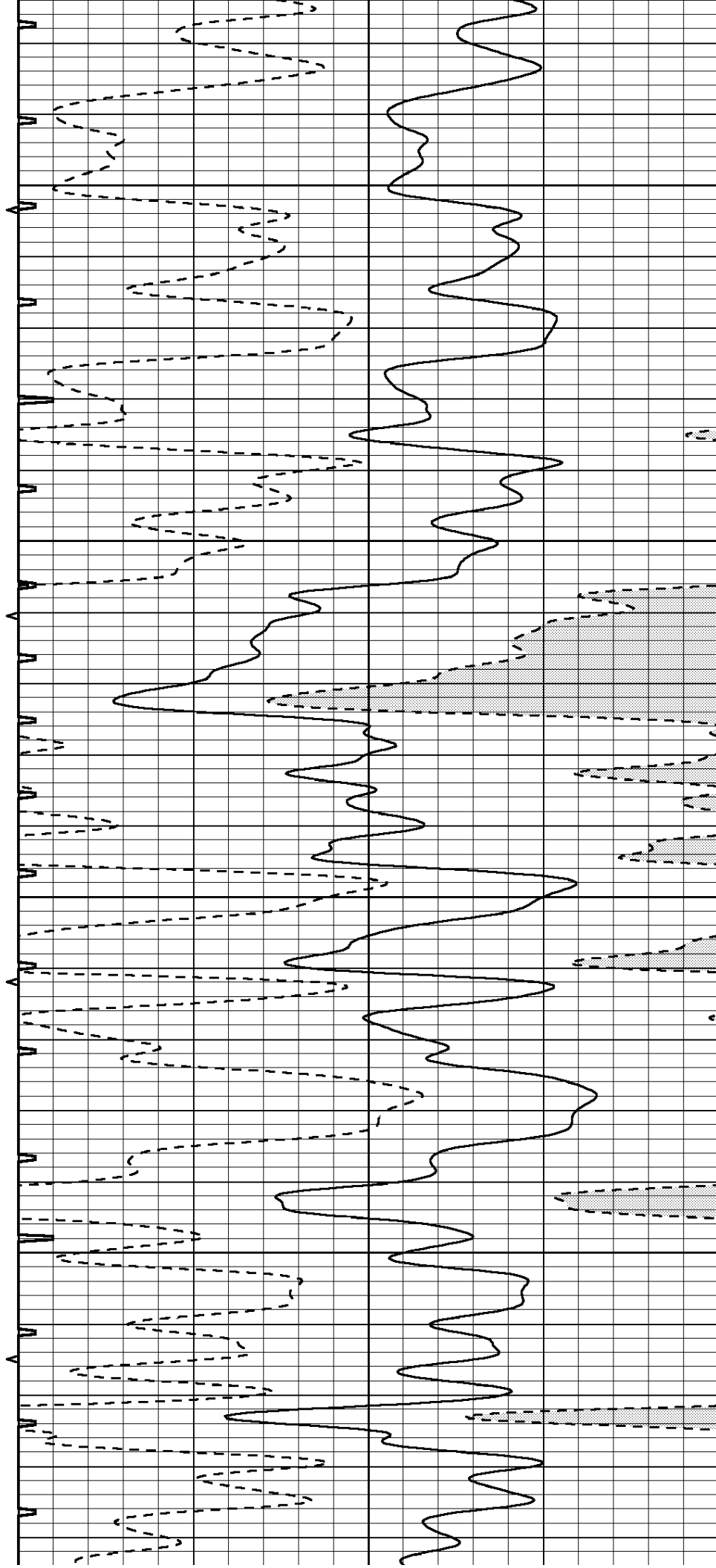


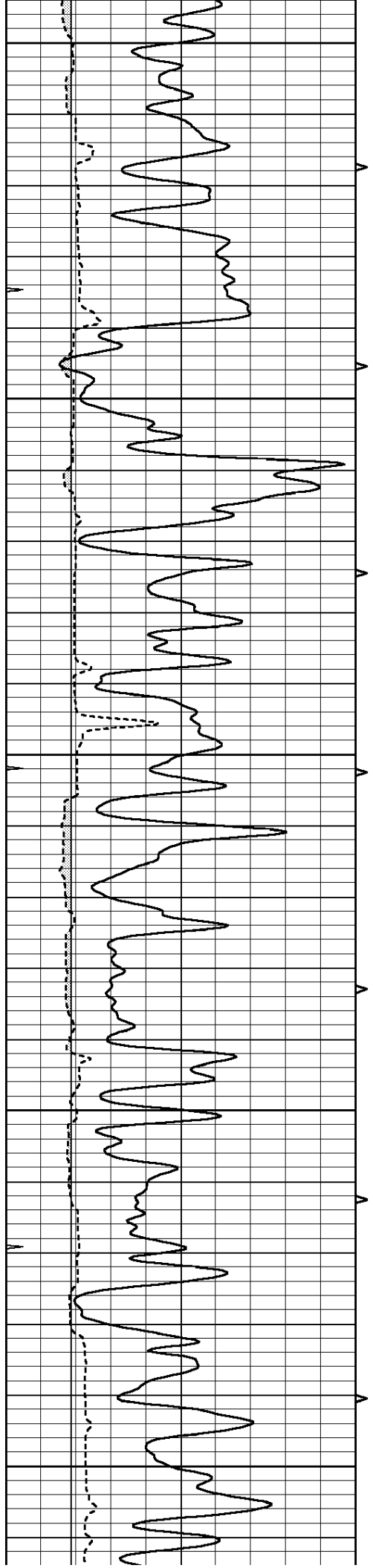
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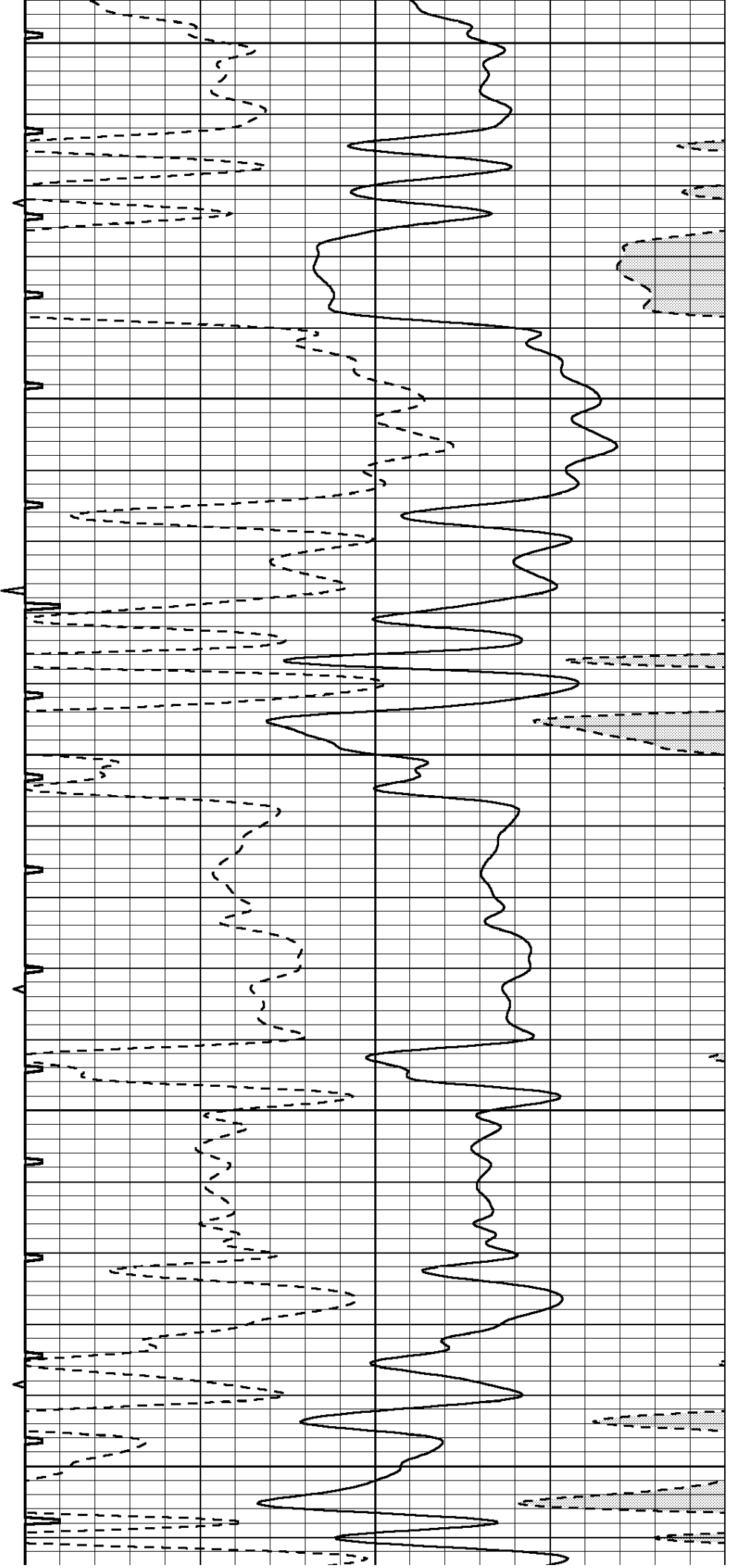
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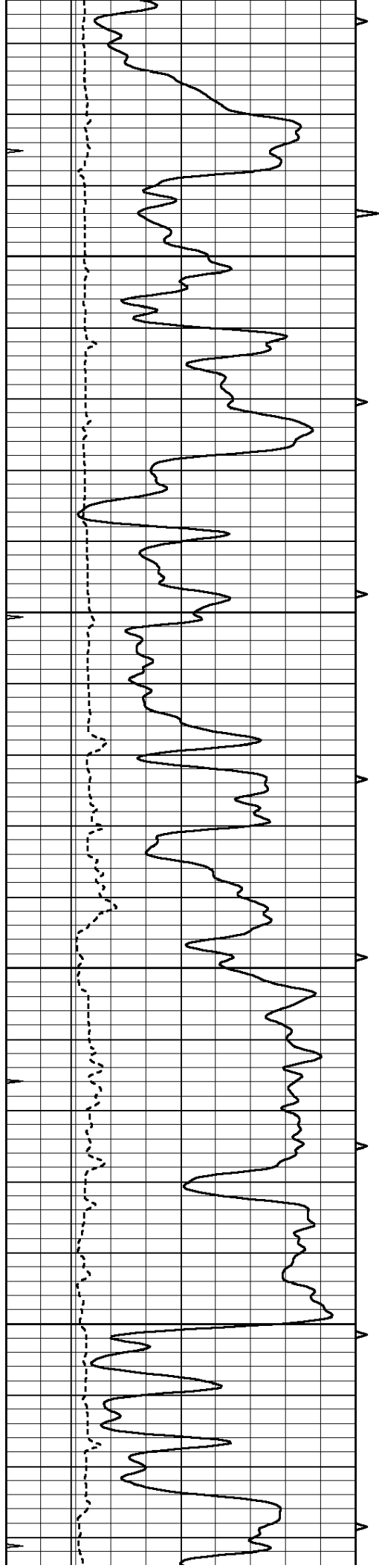
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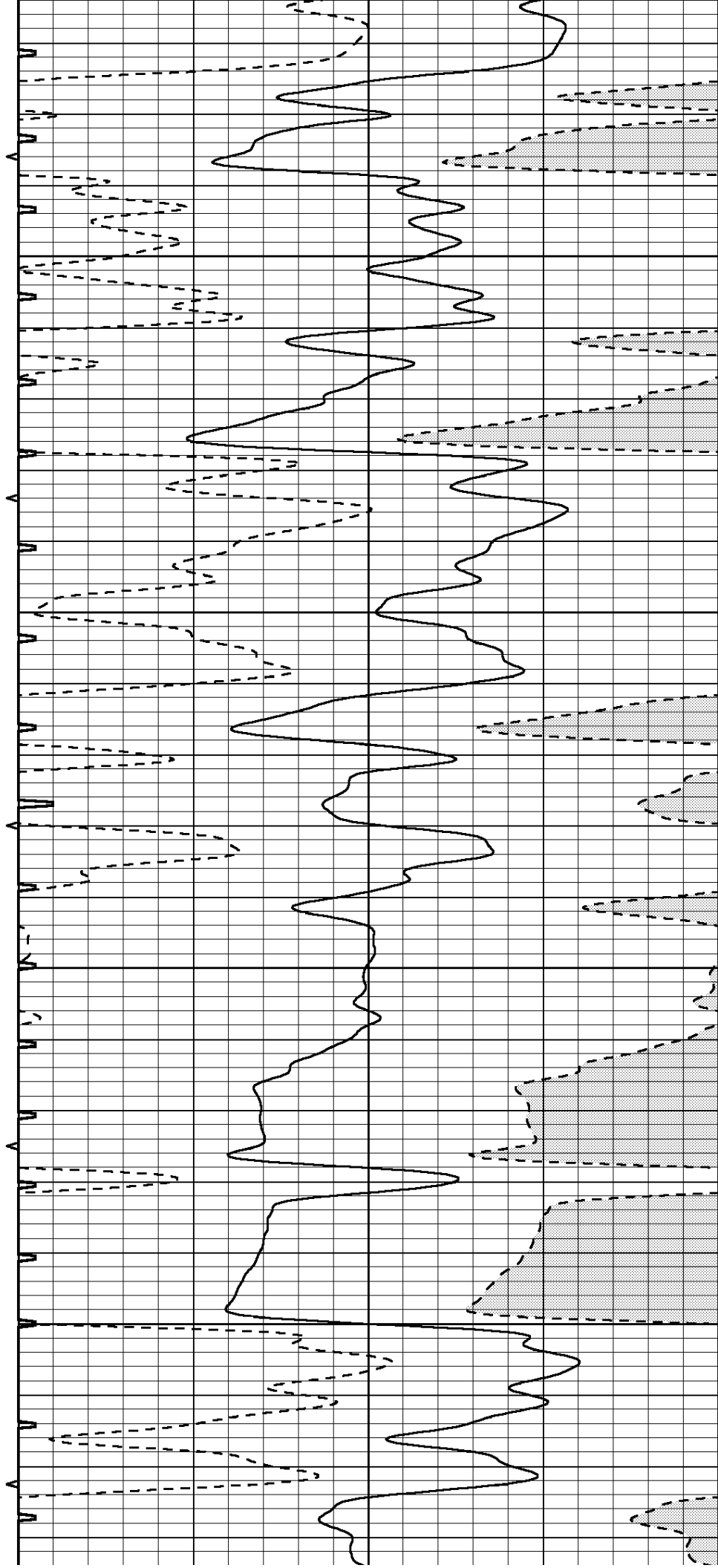


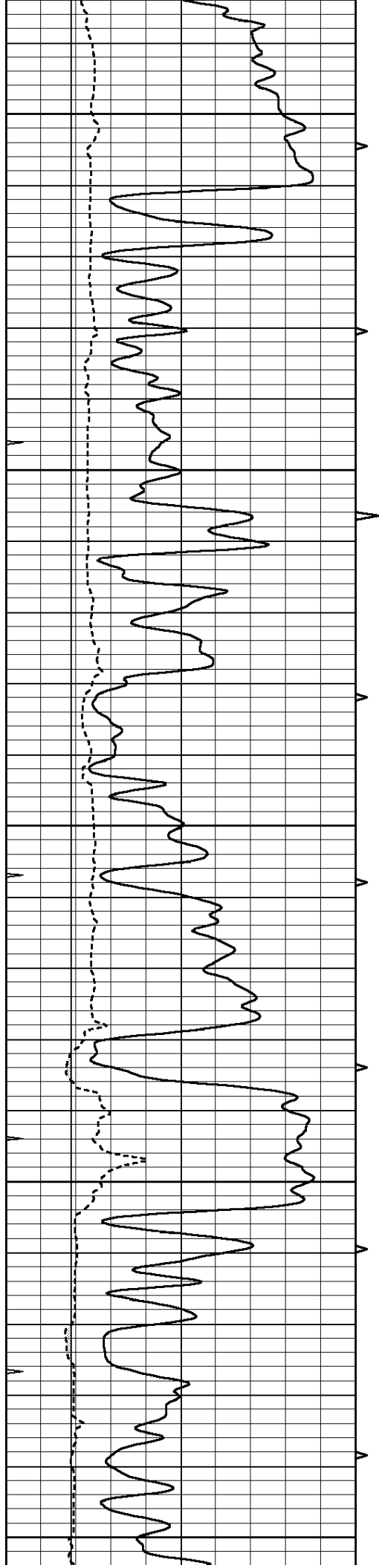
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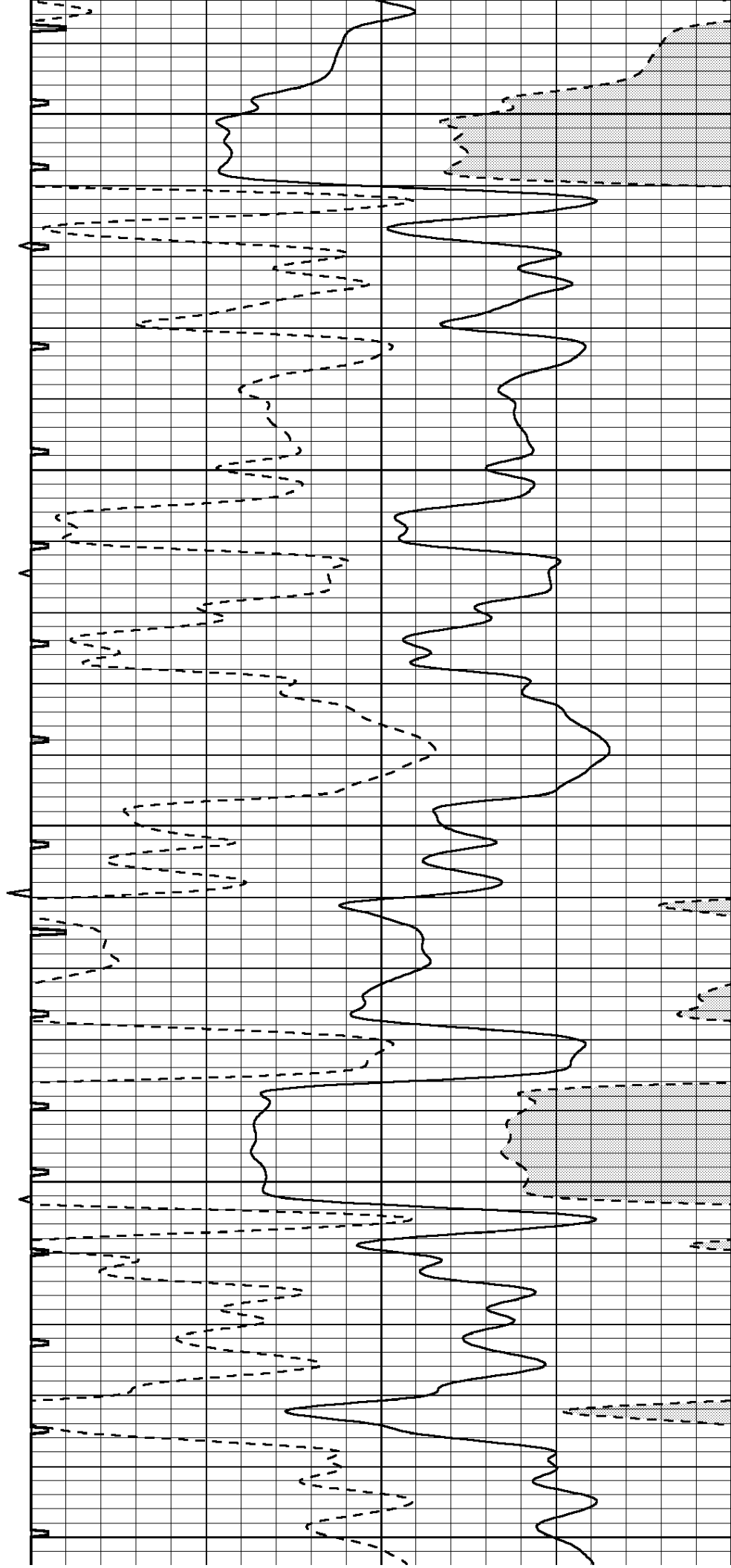
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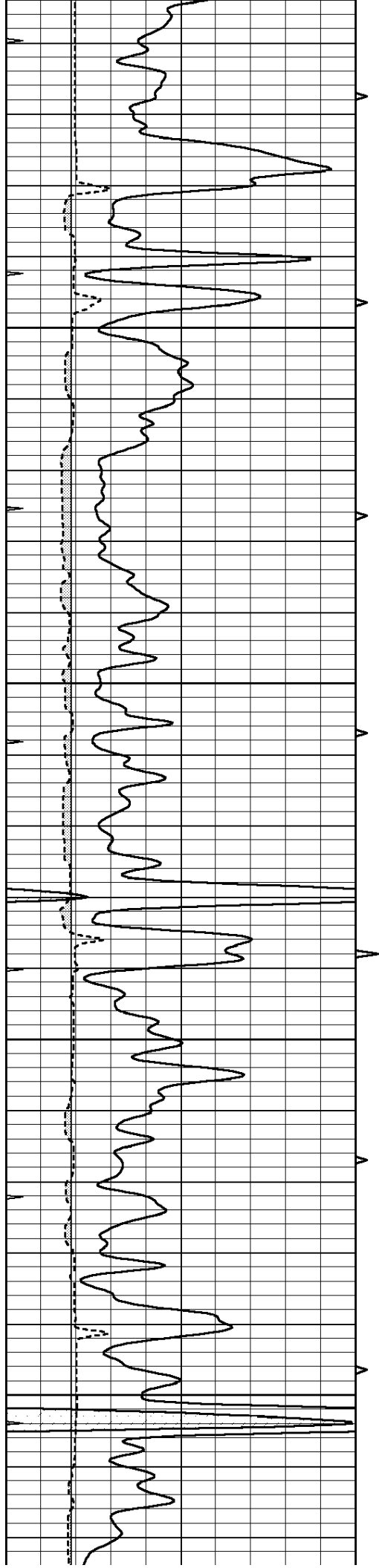
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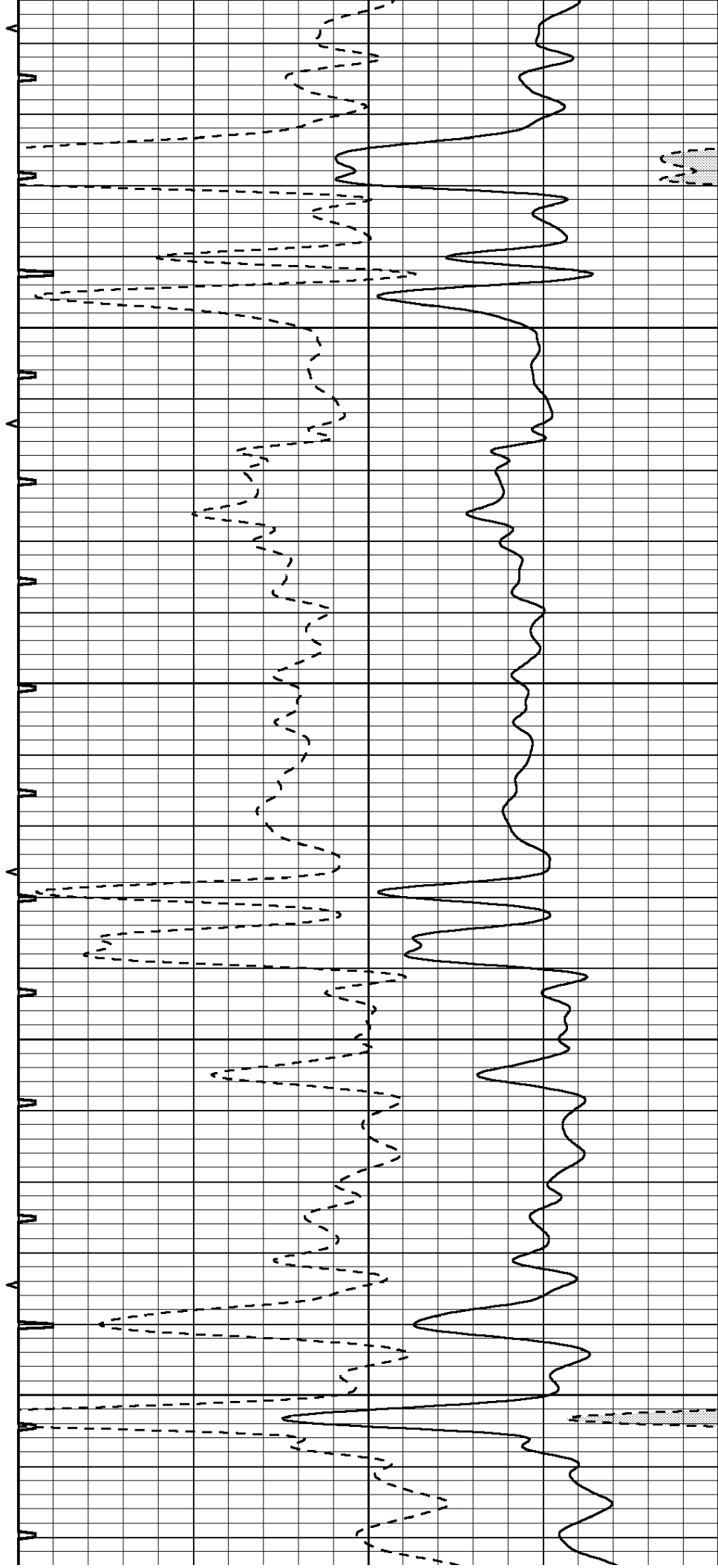


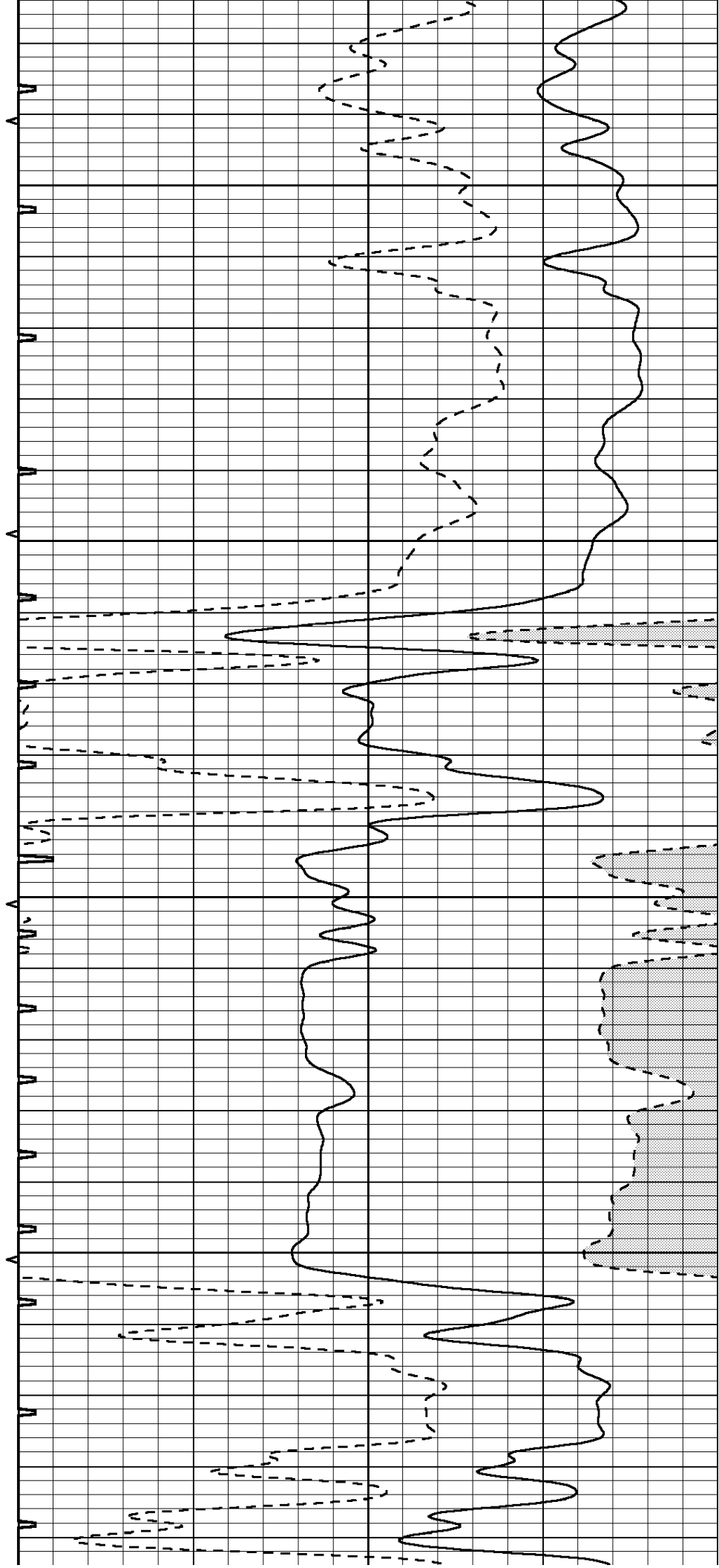
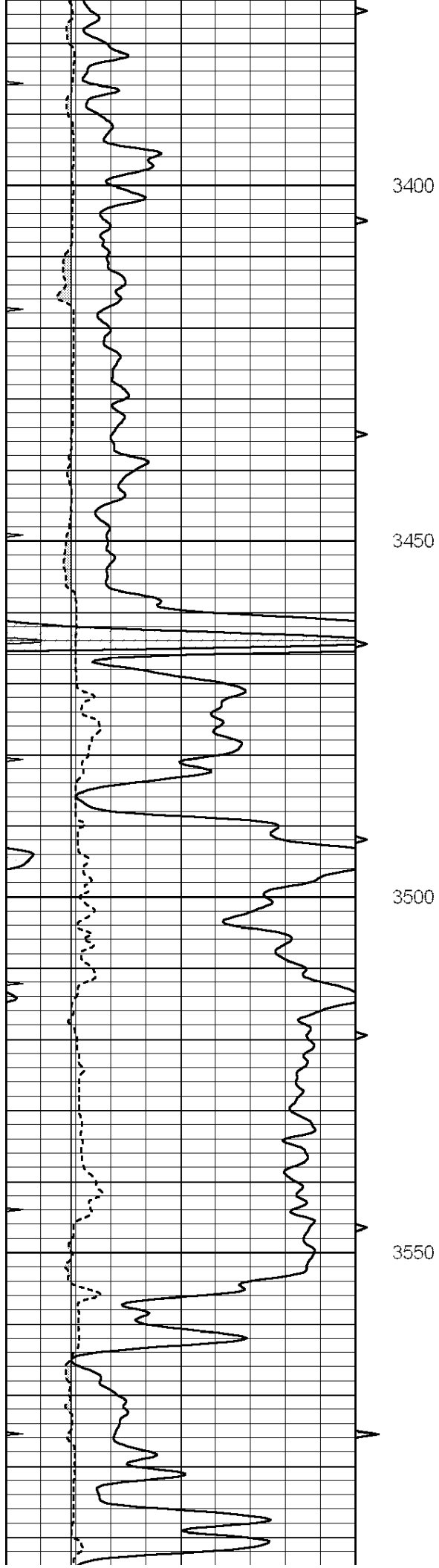
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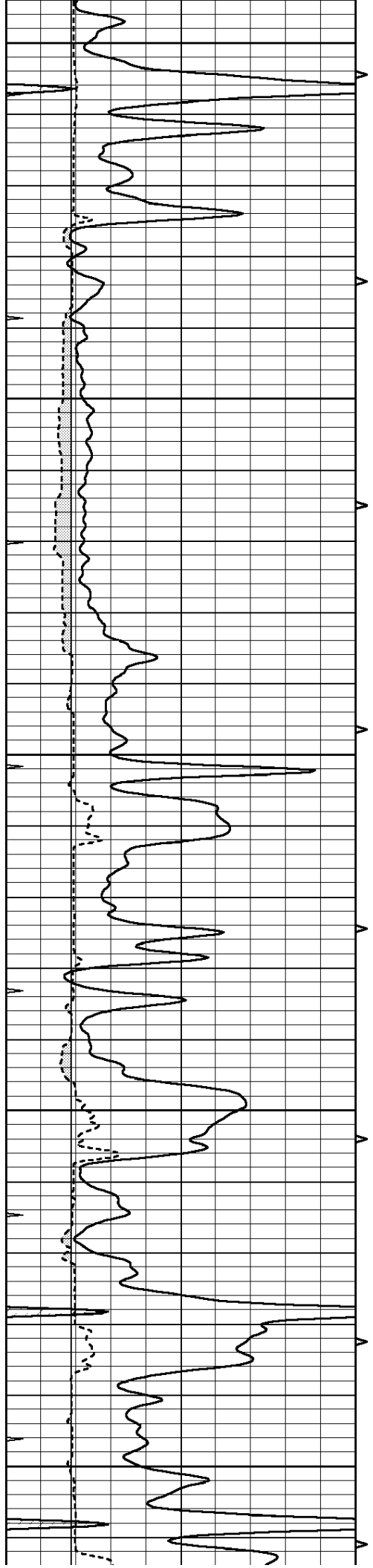
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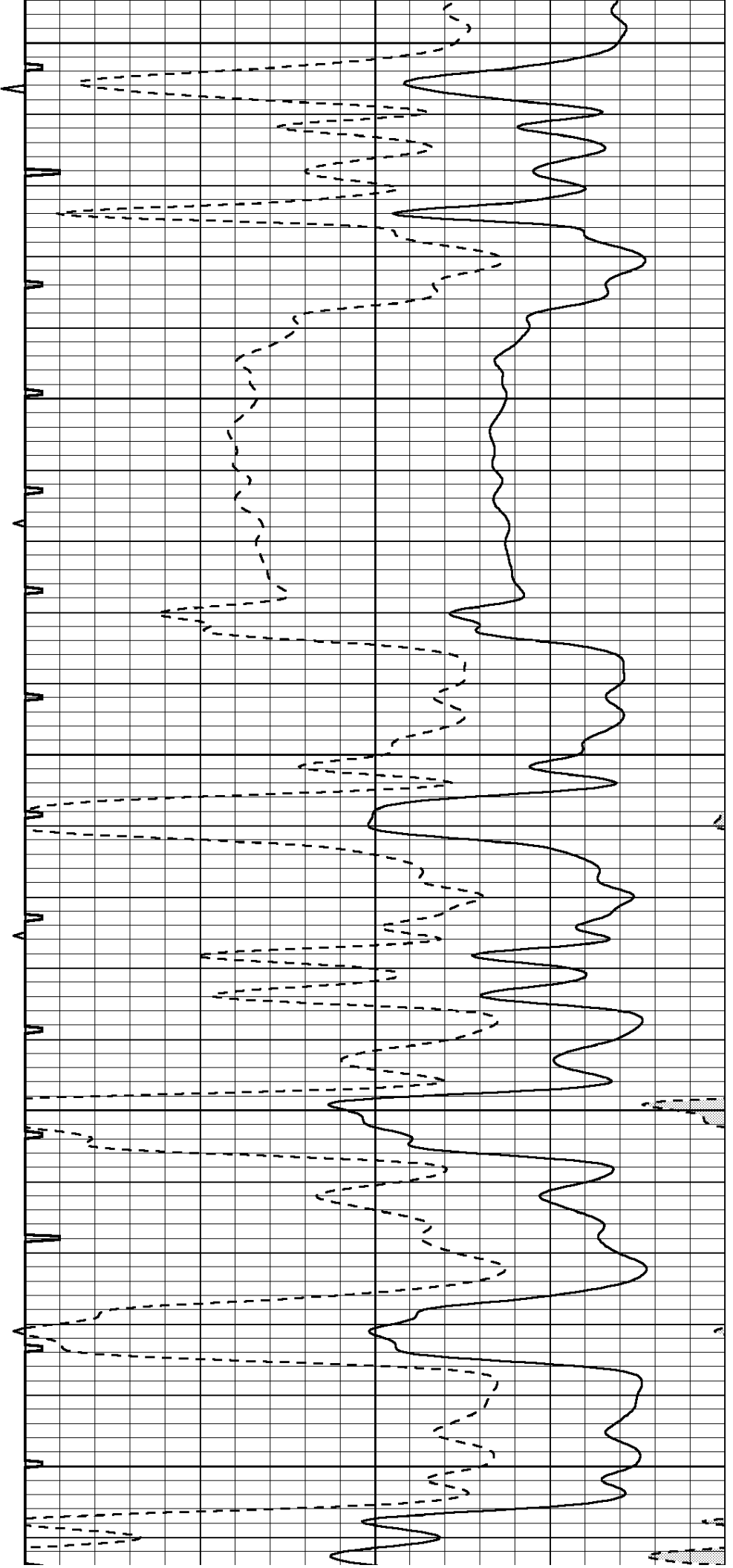
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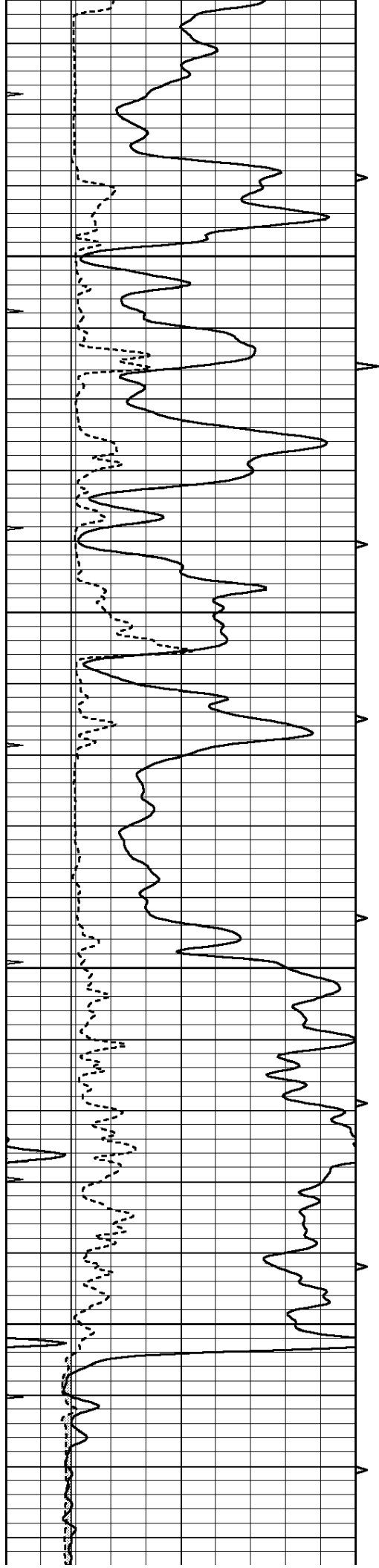
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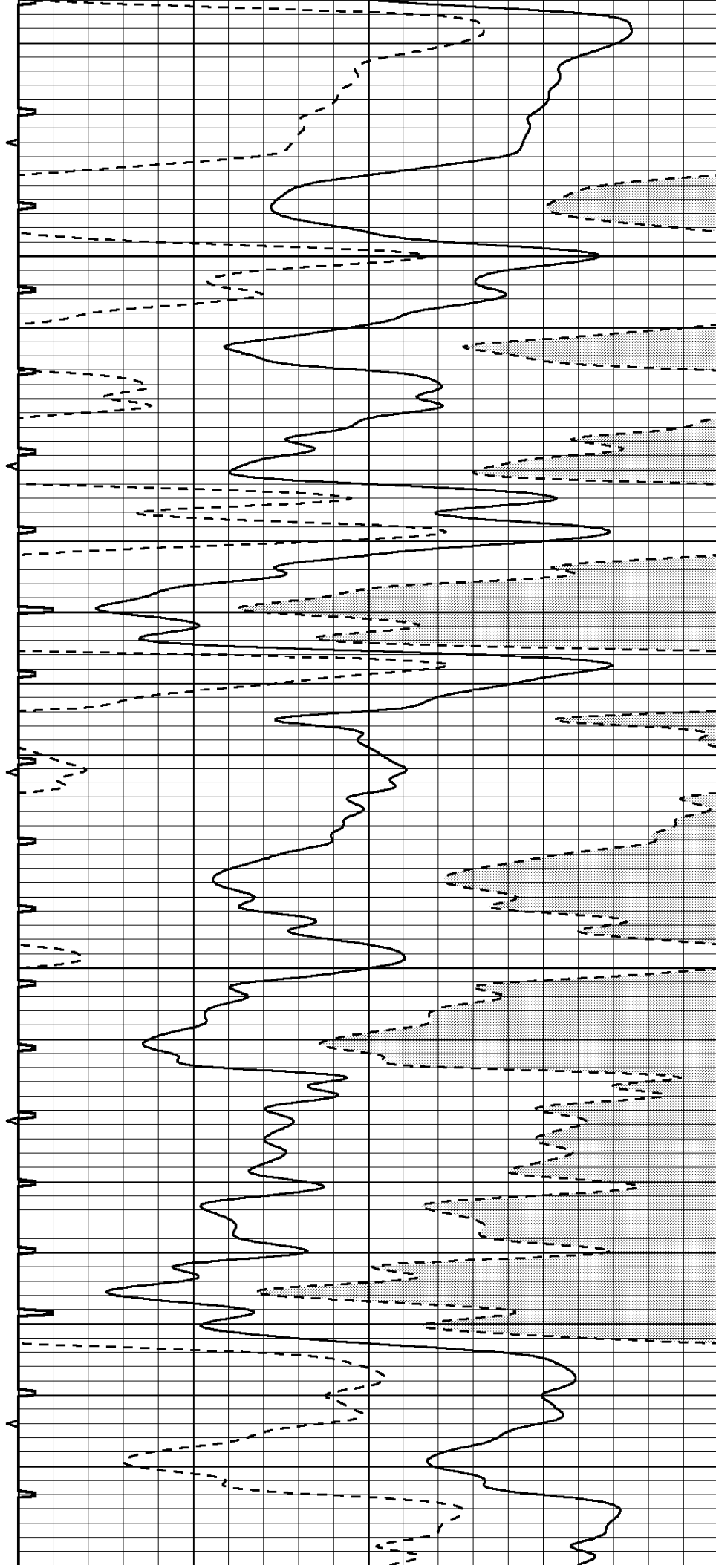


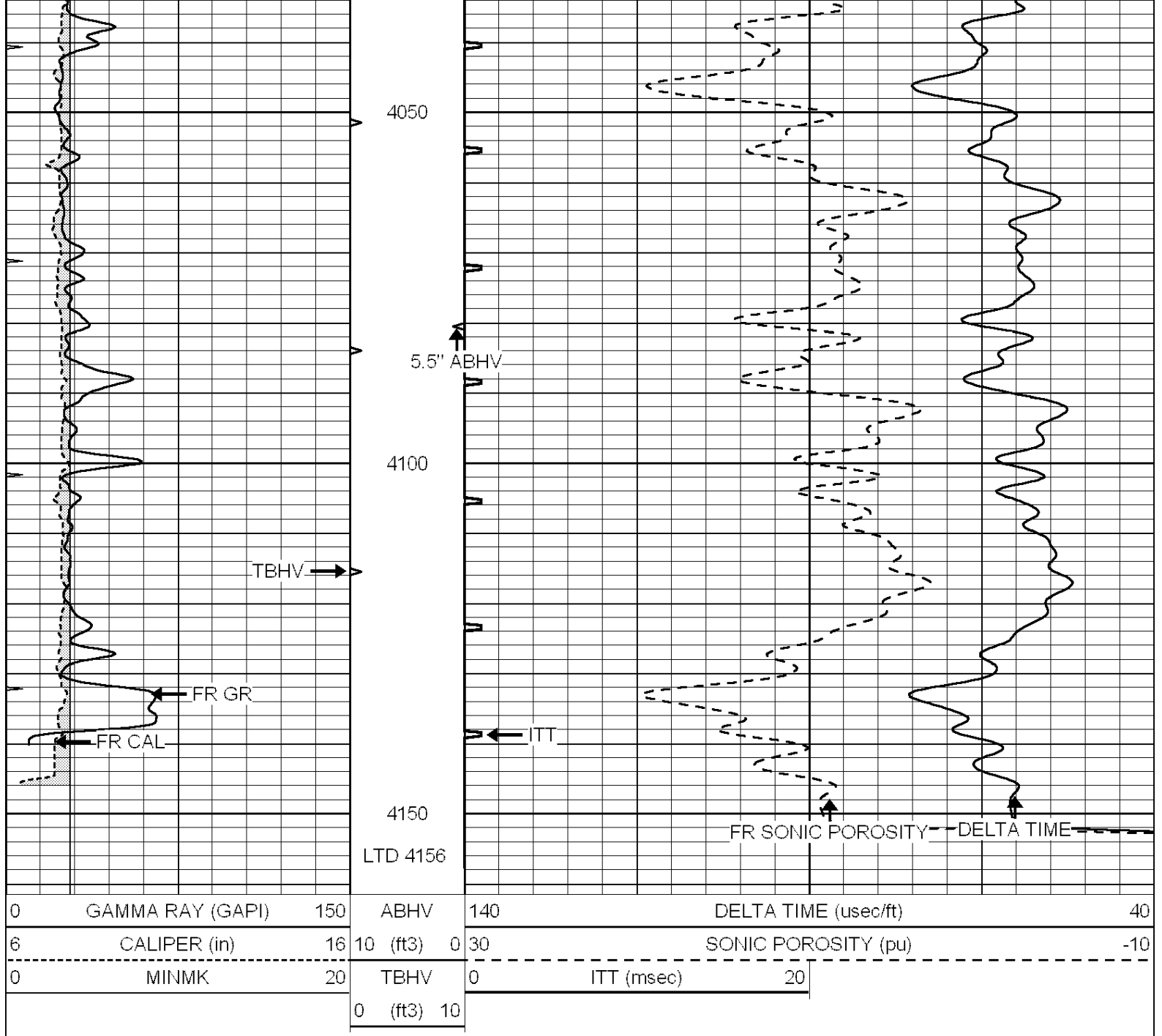
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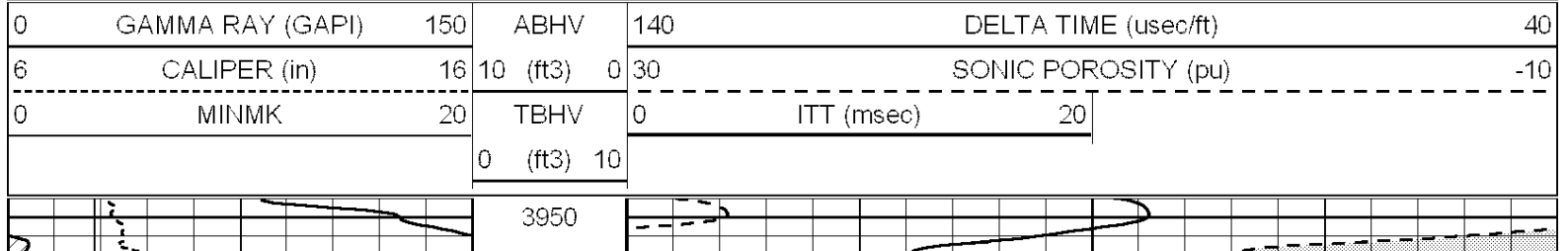


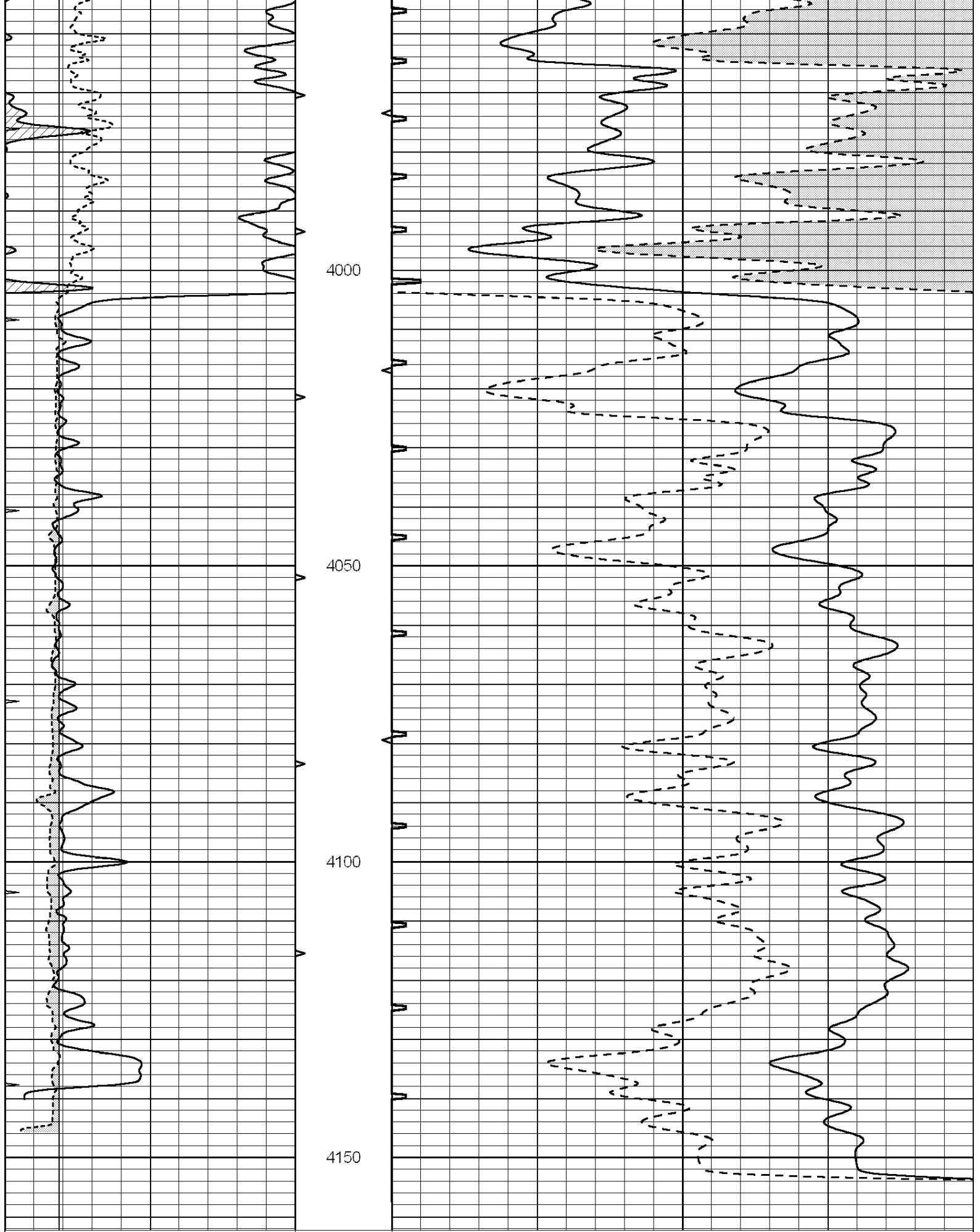


**Casedhole
Solutions**

REPEAT SECTION

Database File: 30675ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: slt
 Dataset Creation: Mon Nov 23 04:35:59 2015
 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	MINIMK	20	TRPV	0	ITT (mean)	20

0	WINDMILL	20	PERIV	0	TIME (HOURS)	20
			0 (ft3) 10			