



**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company	HUTCHINSON OIL COMPANY		
Well	OSBORNE #2 B		
Field	SANDAGO WEST		
County	STAFFORD	State	KANSAS
Location:	API # : 15-185-23799-0000		Other Services CDL/CNL DIL/MEL
	2293' FSL & 894' FEL E/2 - NW - NE - SE		
Permanent Datum	SEC 12 TWP 21S RGE 12W		Elevation
Log Measured From	GROUND LEVEL		K.B. 1823
Drilling Measured From	KELLY BUSHING 11' A.G.L.		D.F. 1821
	KELLY BUSHING		G.L. 1812
Date	4/12/13		
Run Number	TWO		
Depth Driller	3520		
Depth Logger	3522		
Bottom Logged Interval	3512		
Top Log Interval	600		
Casing Driller	8 5/8" @ 604'		
Casing Logger	603		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5000 PPM	
Density / Viscosity	9.1/5.1		
pH / Fluid Loss	10.0/8.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.80 @ 65F		
Rmt @ Meas. Temp	.60 @ 65F		
Rmc @ Meas. Temp	.96 @ 65F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.46 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	112F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEFFERY BURK		

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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:
ELLINWOOD KS. - S. ON MAIN STREET TO CURVE WEST - 1/2 W. TO RD 100
S. TO RD. 190TH - 1 E. - 1/4 N. - W. INTO



MAIN SECTION

Database File:

010870ddn.db

Dataset Pathname:

pass6.2

Presentation Format:

_slt

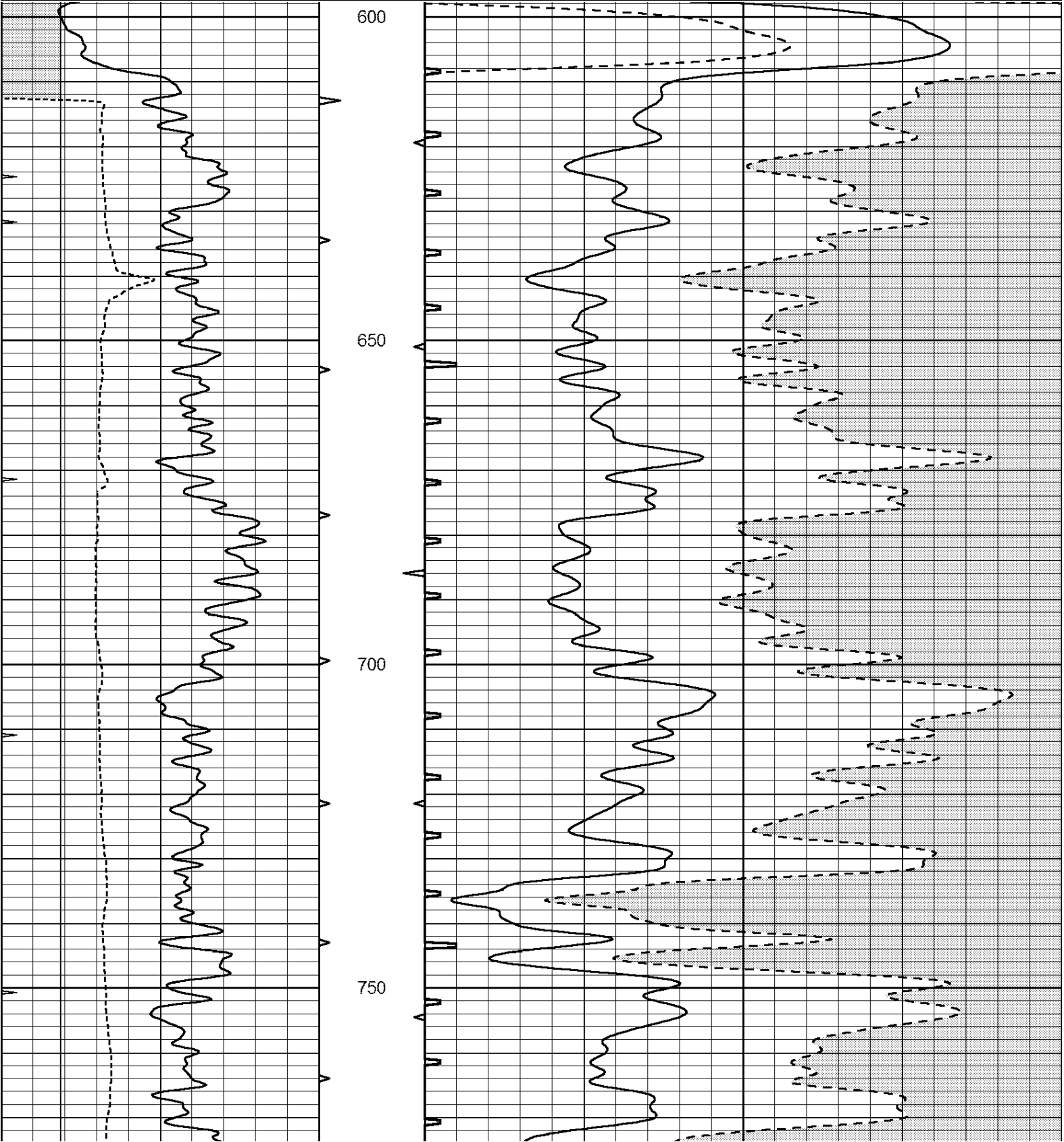
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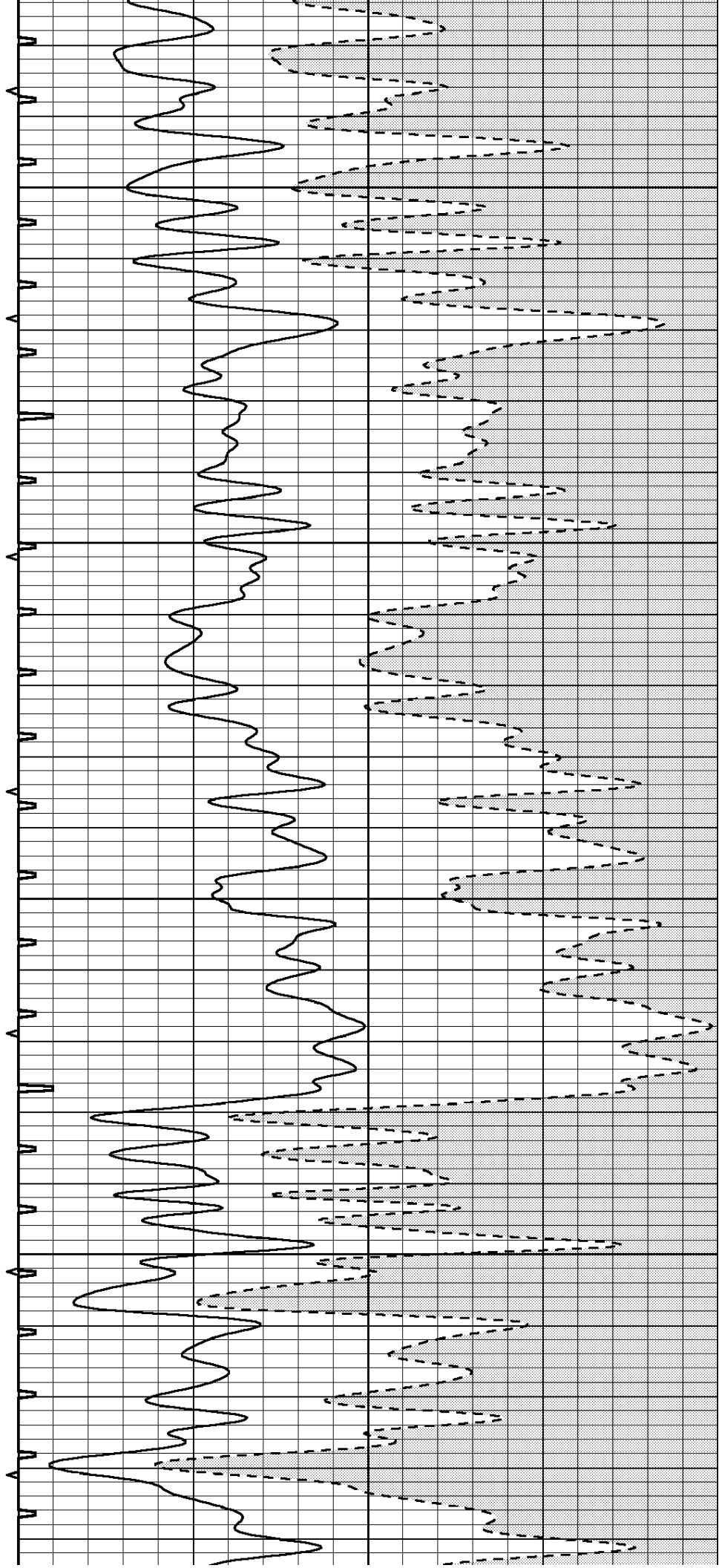
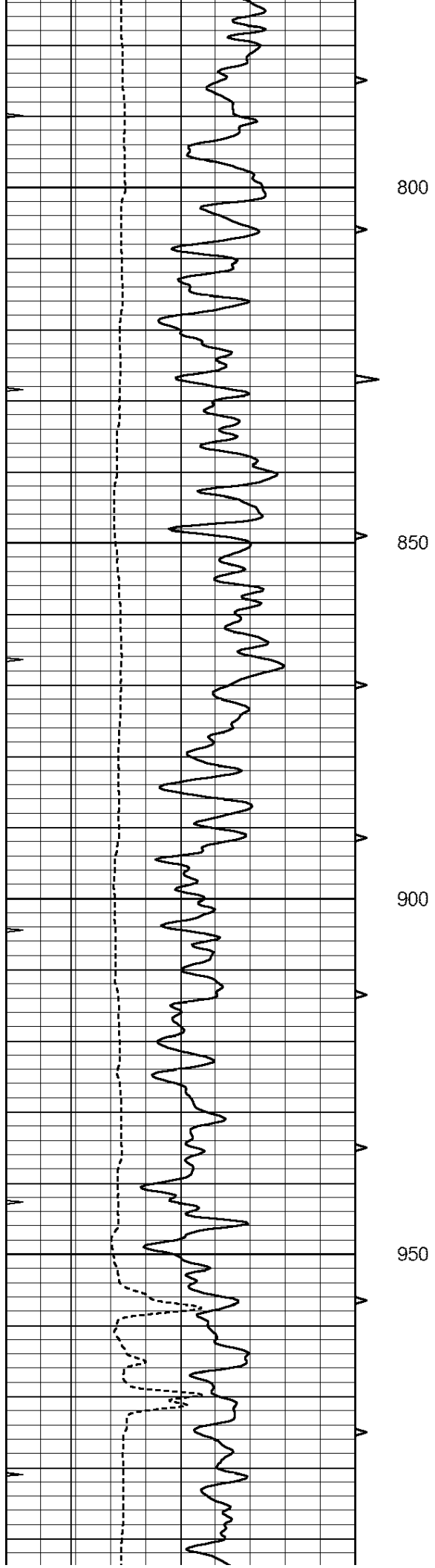
Fri Apr 12 10:39:33 2013 by Calc Open-Cased 090629

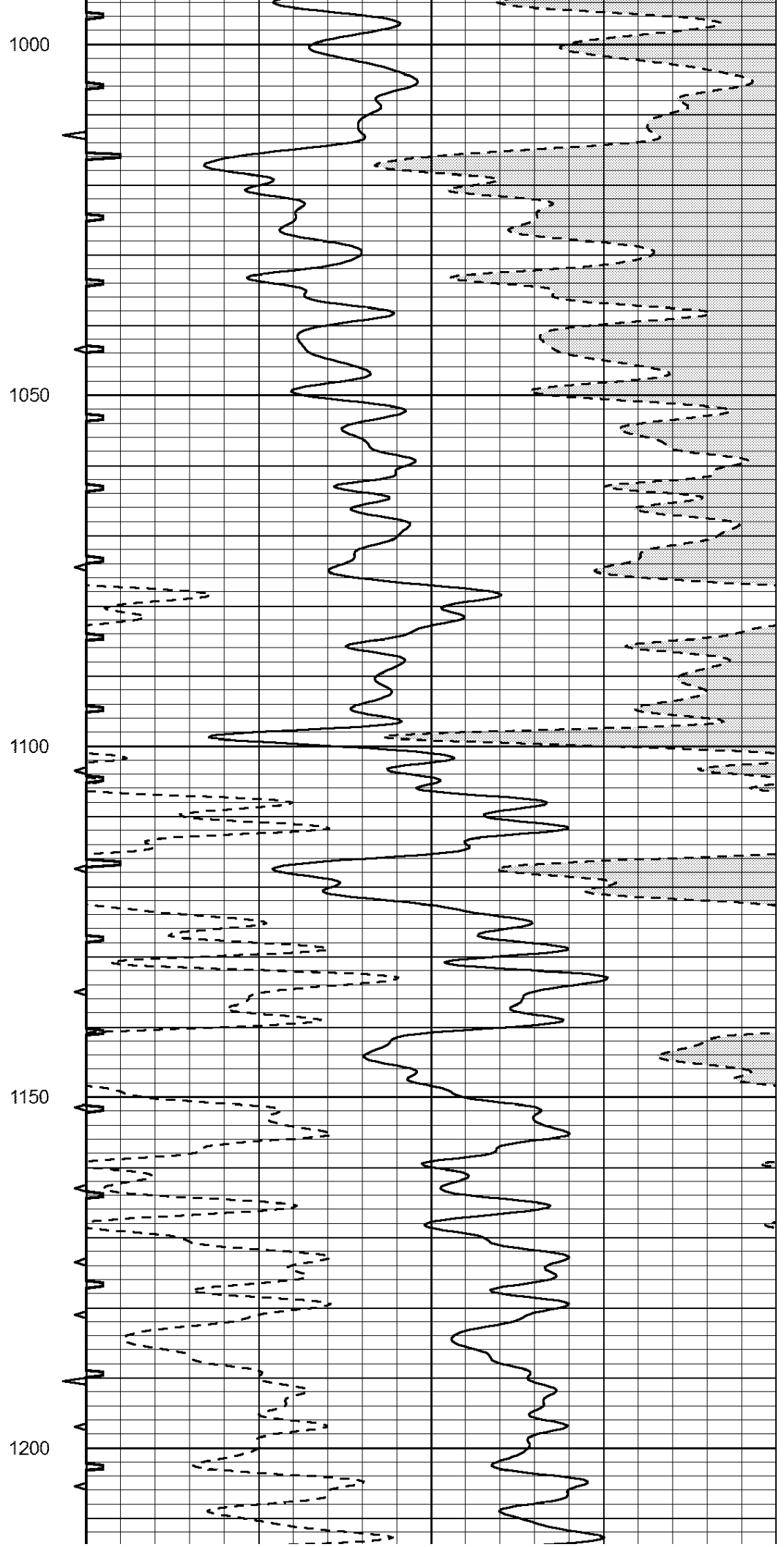
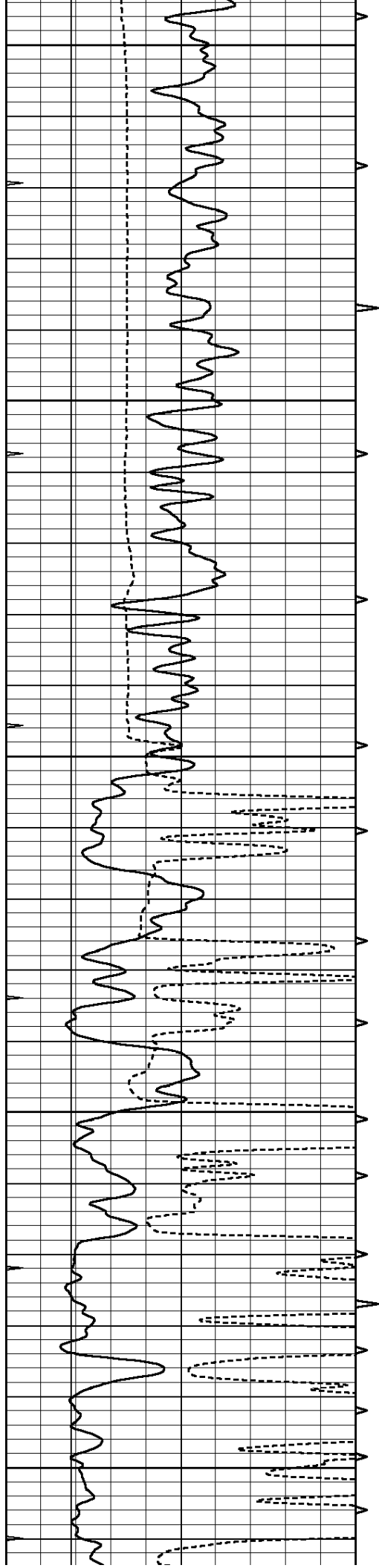
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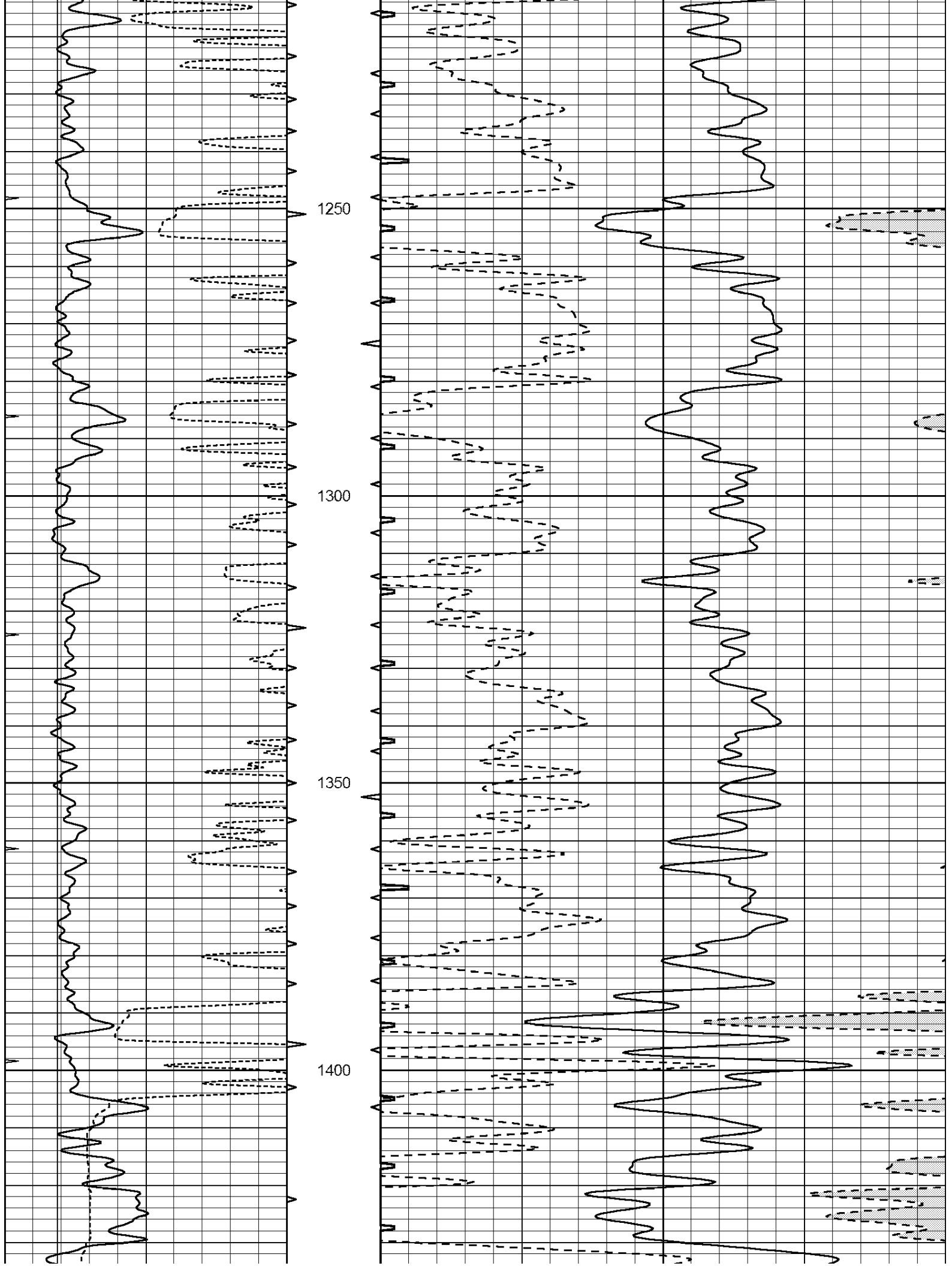
Depth in Feet scaled 1:240

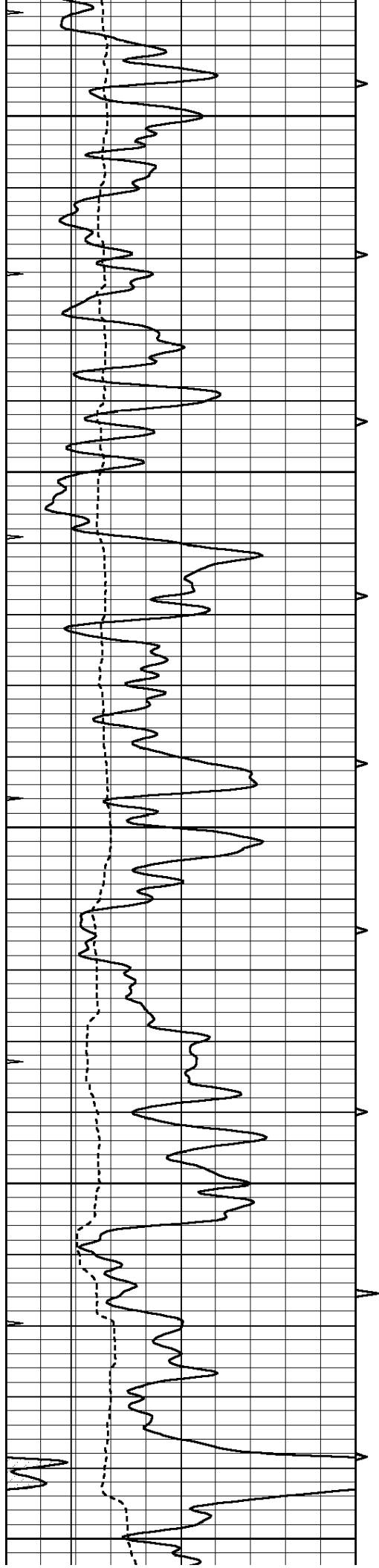
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)		40	
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)		-10
-----			-----					
0	MINMK	20	TBHV	0	ITT (msec)	20		
			0 (ft3)	10				











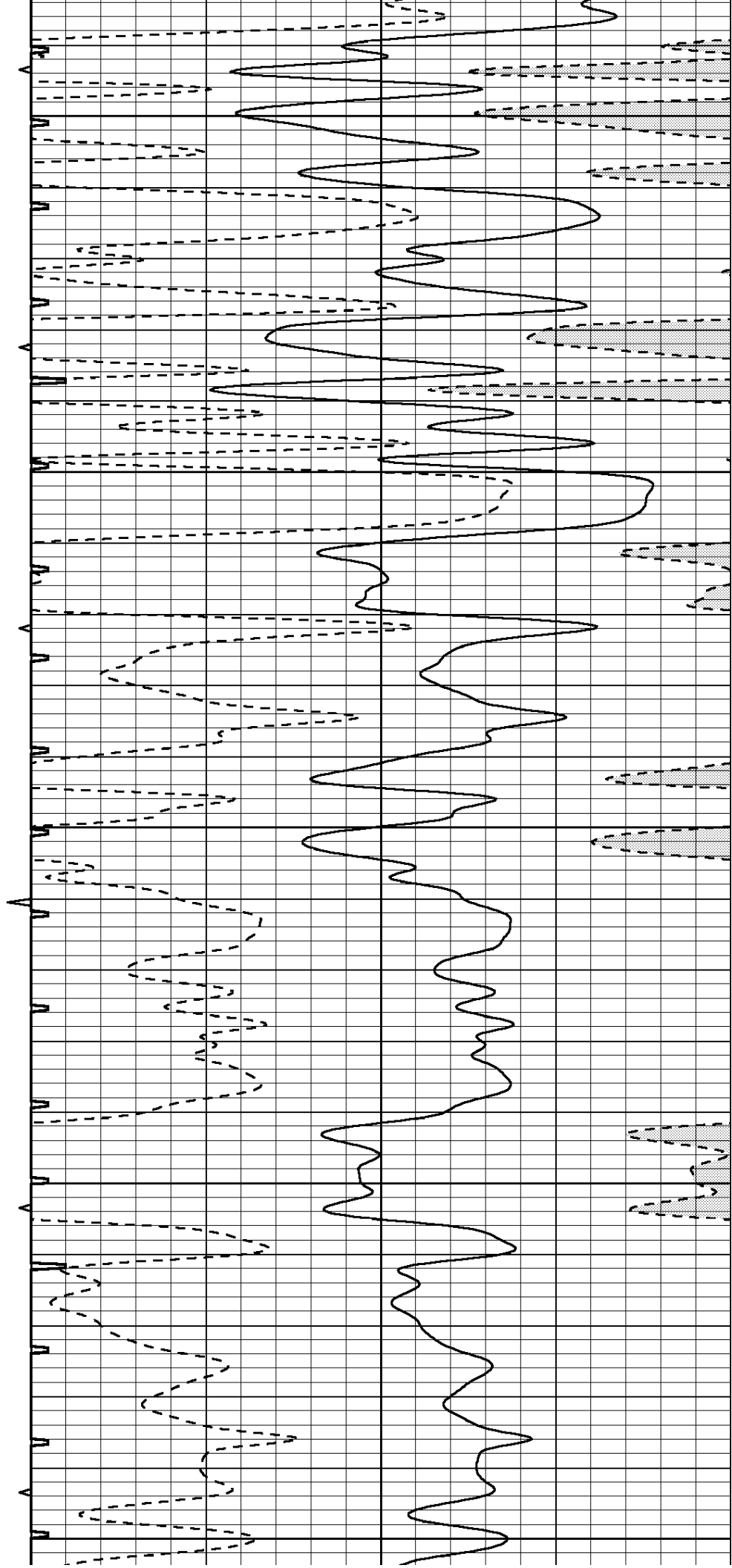
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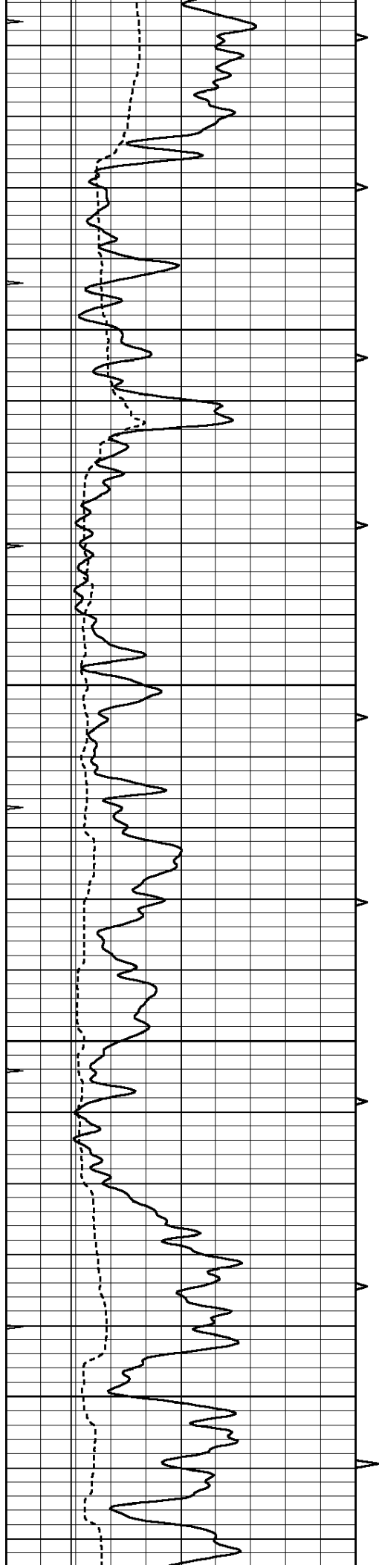
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1550

1600

1650



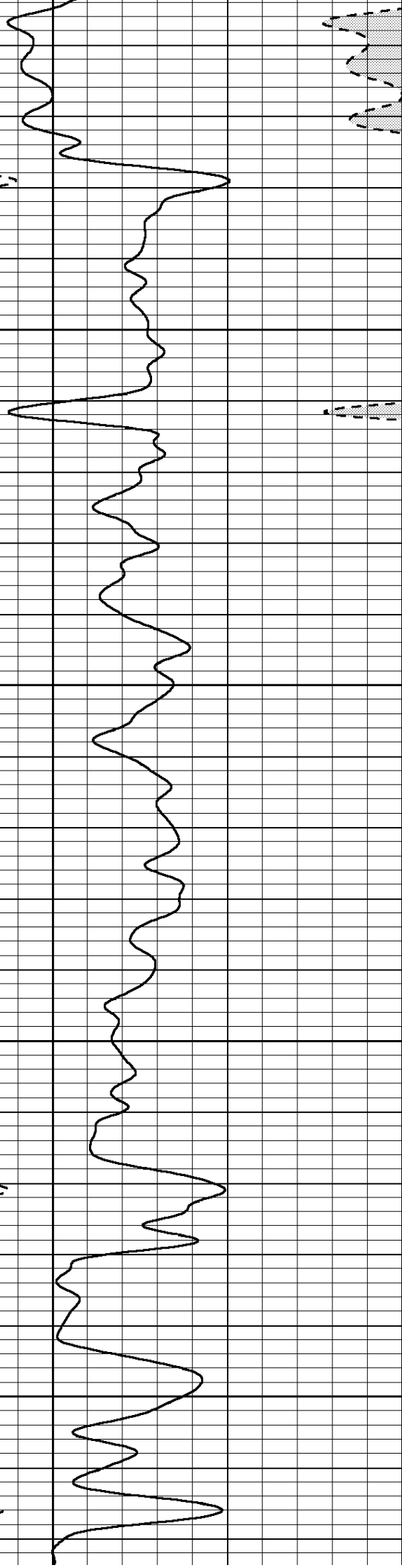
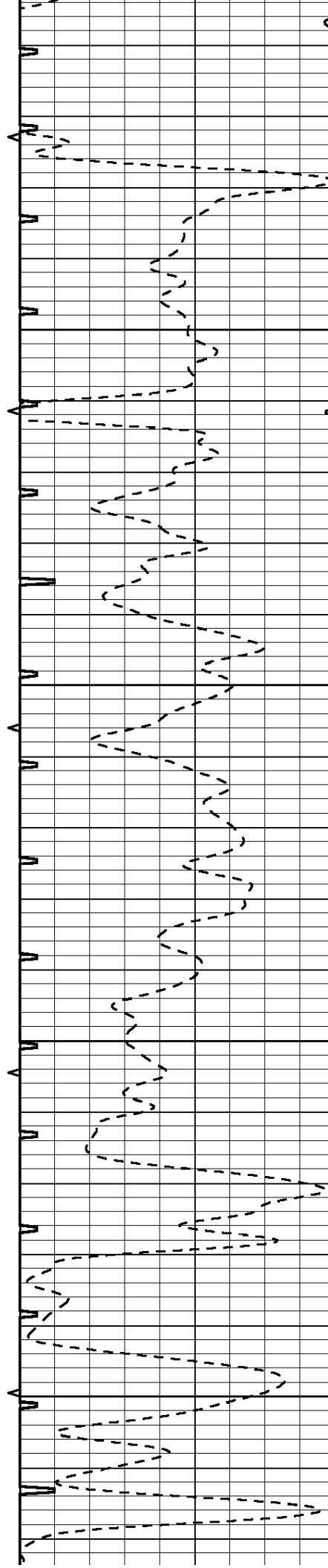


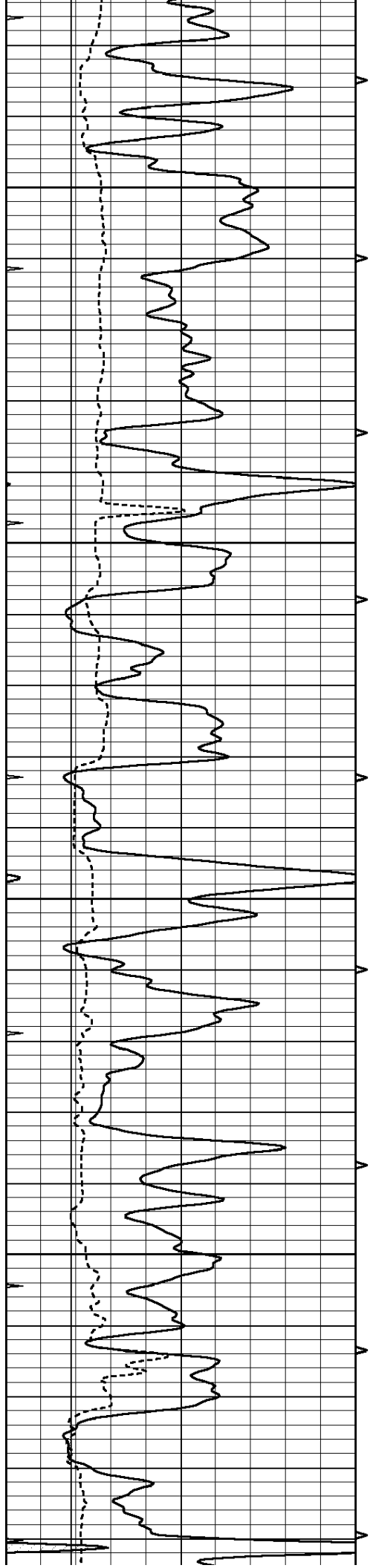
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1750

1800

1850



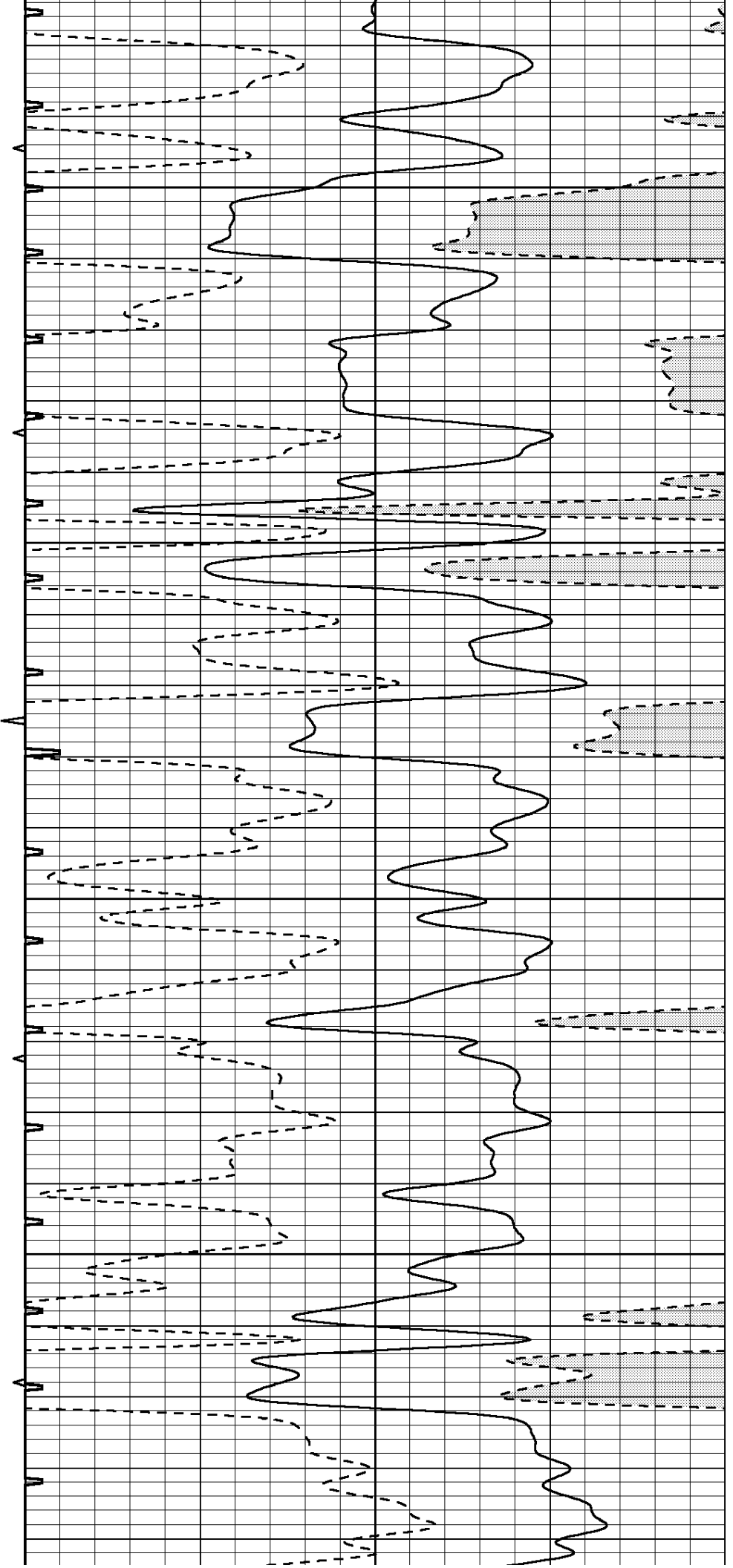


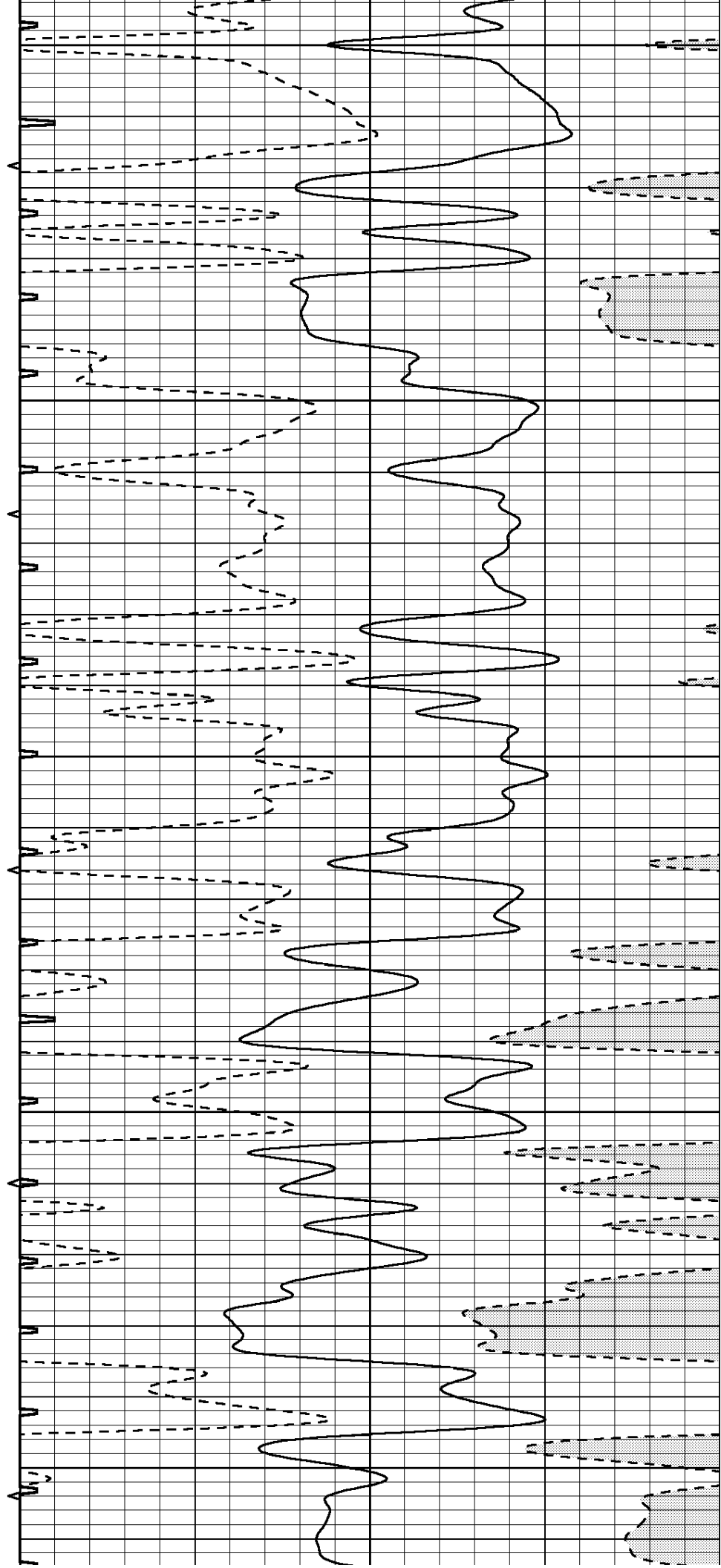
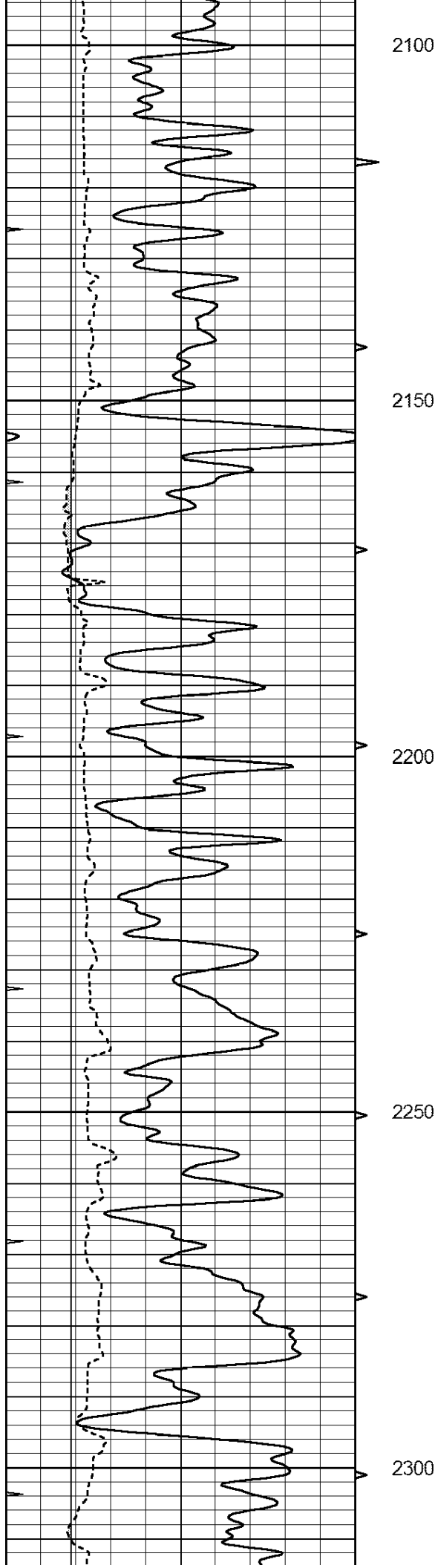
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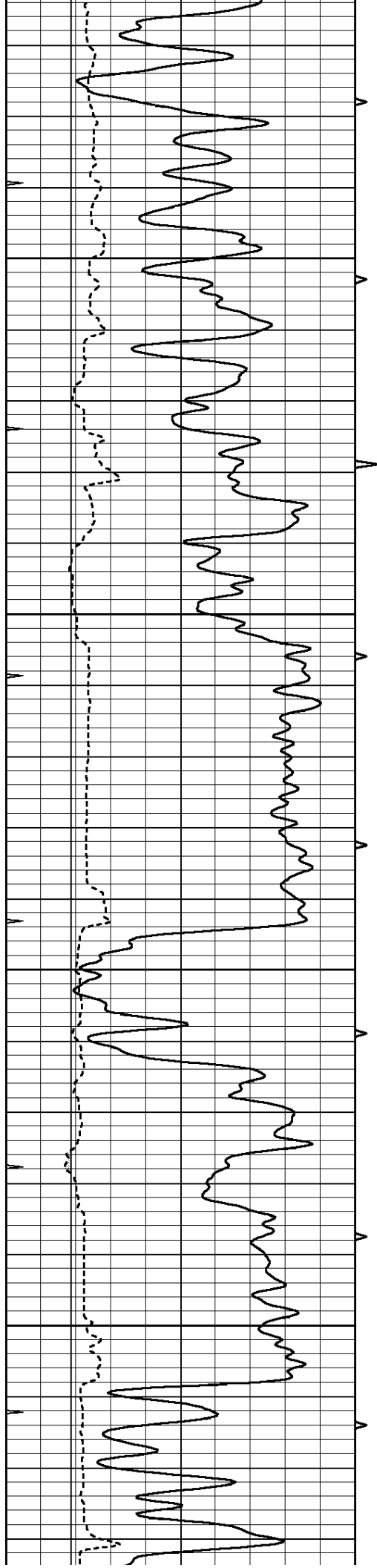
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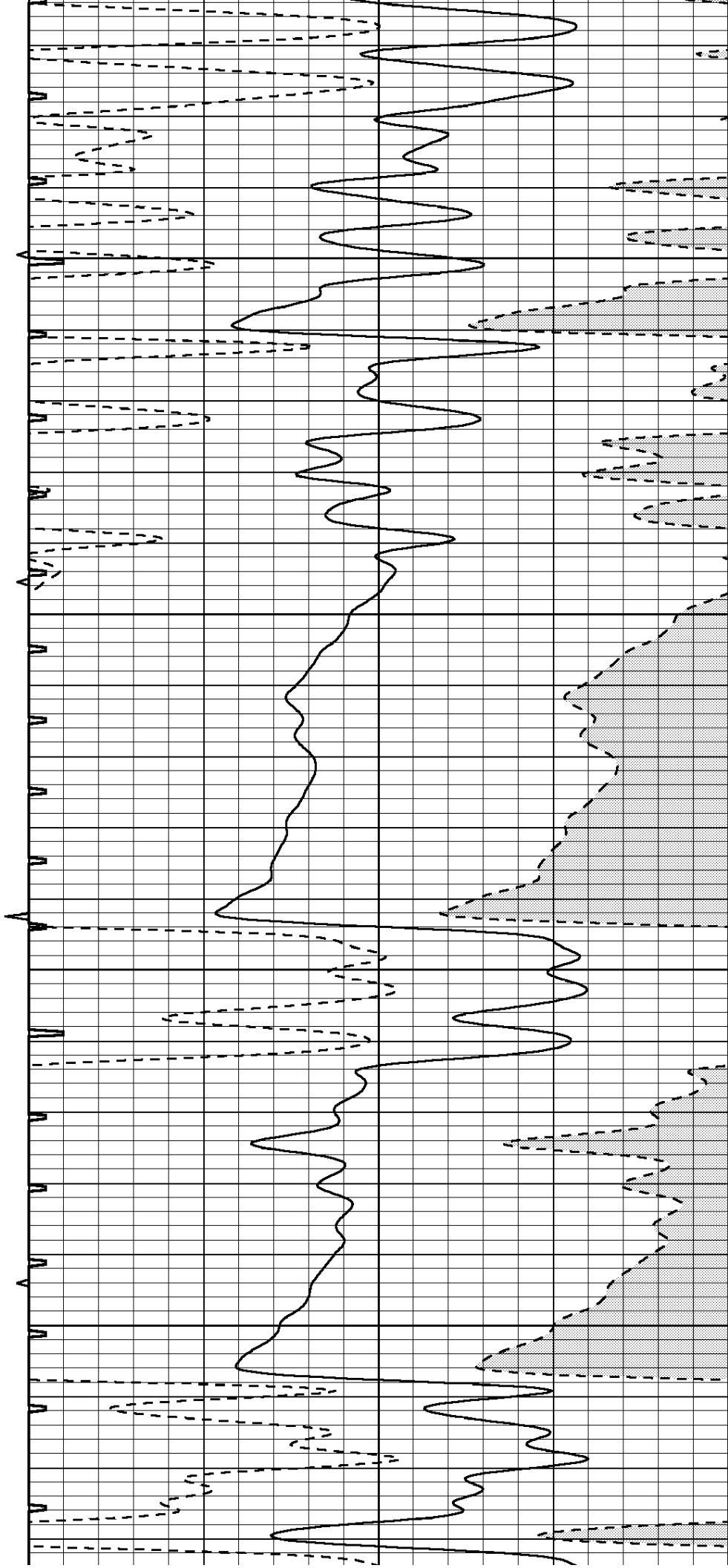


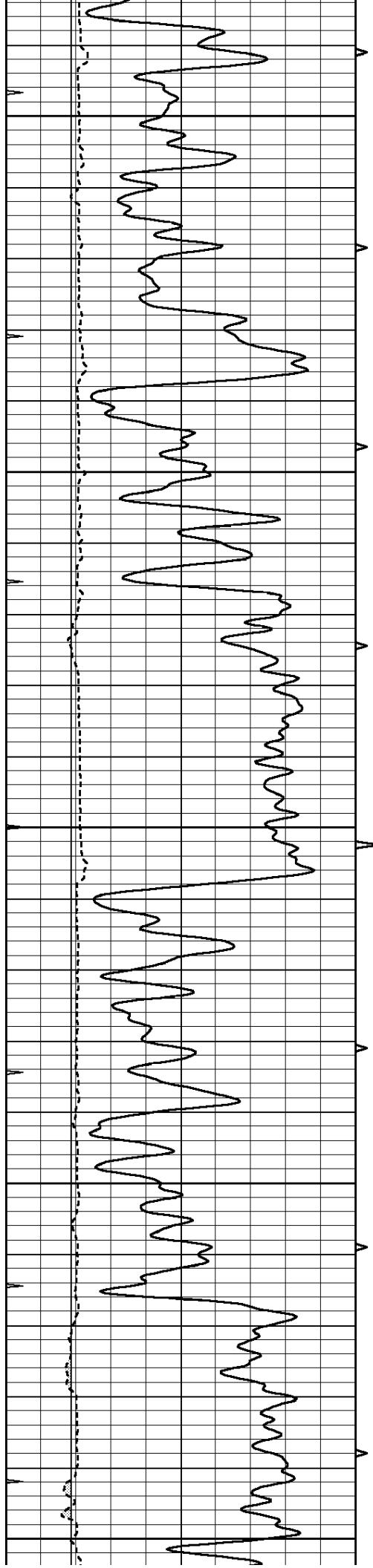
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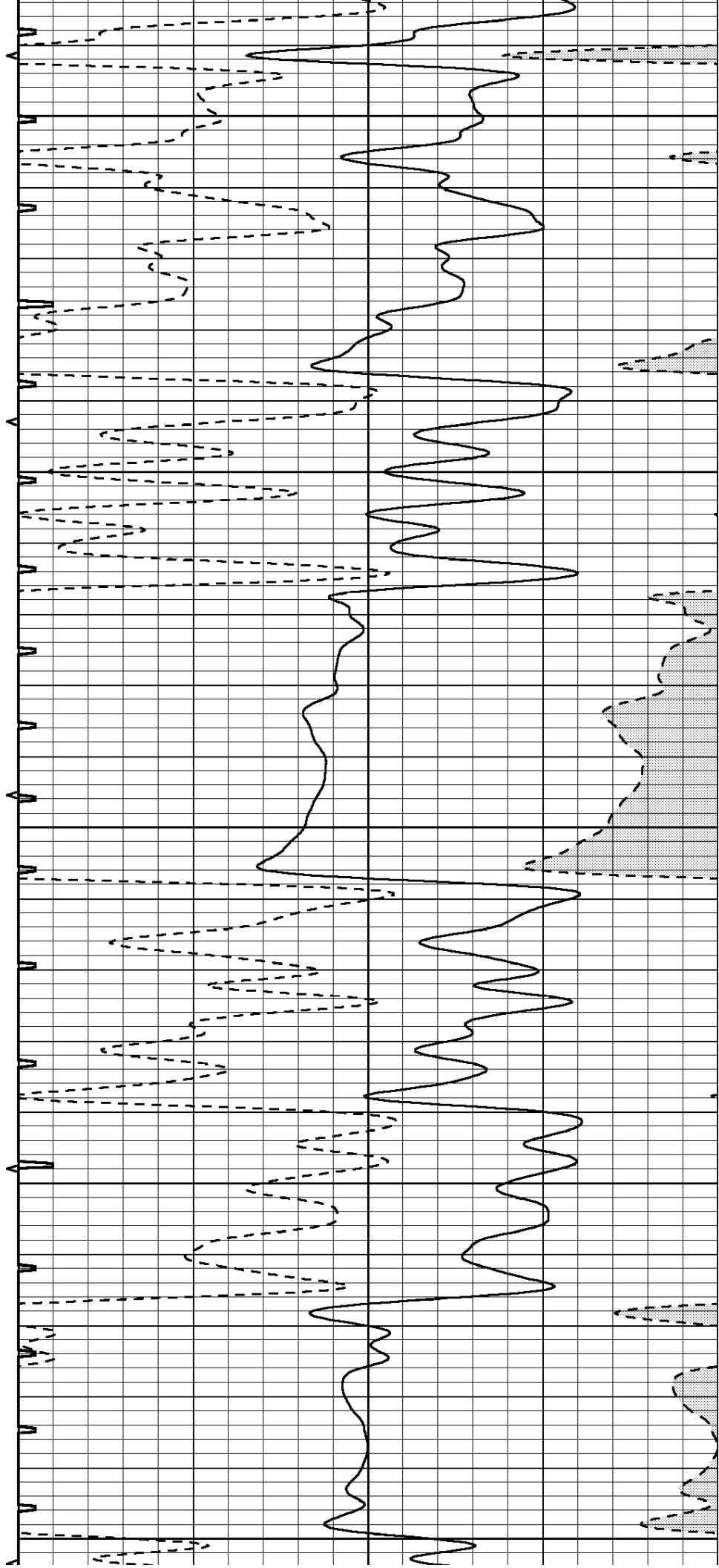
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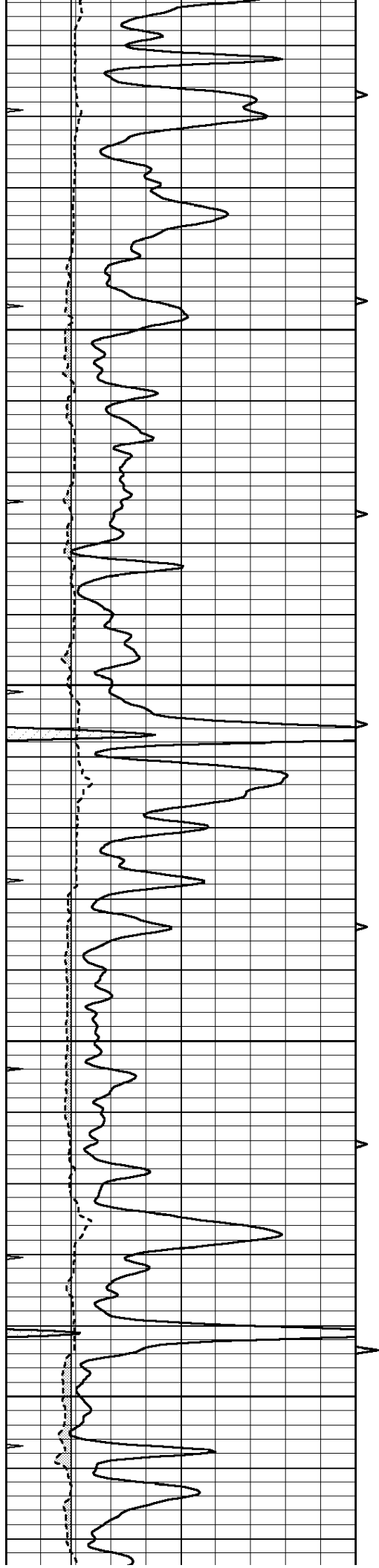
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2650

2700

2750



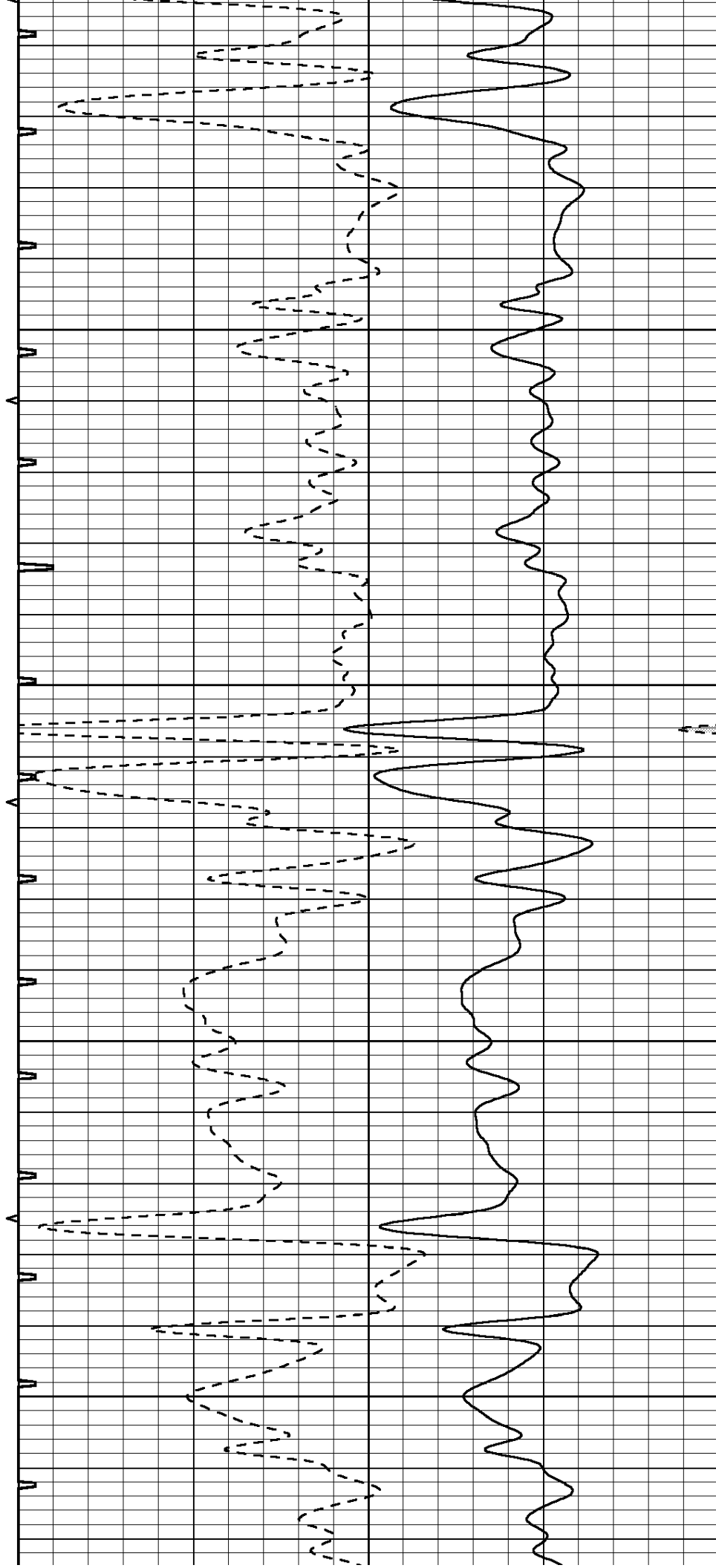


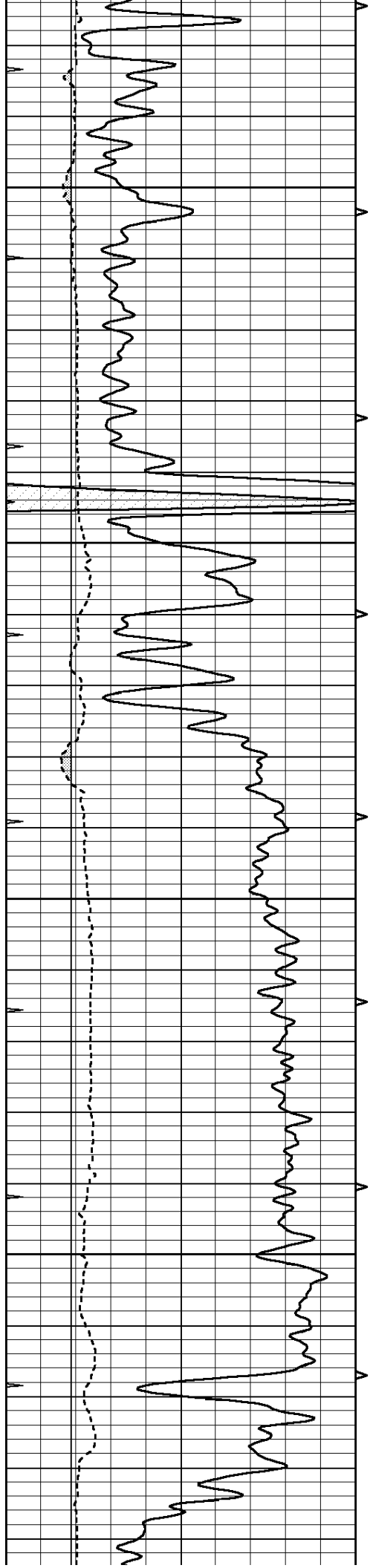
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2950



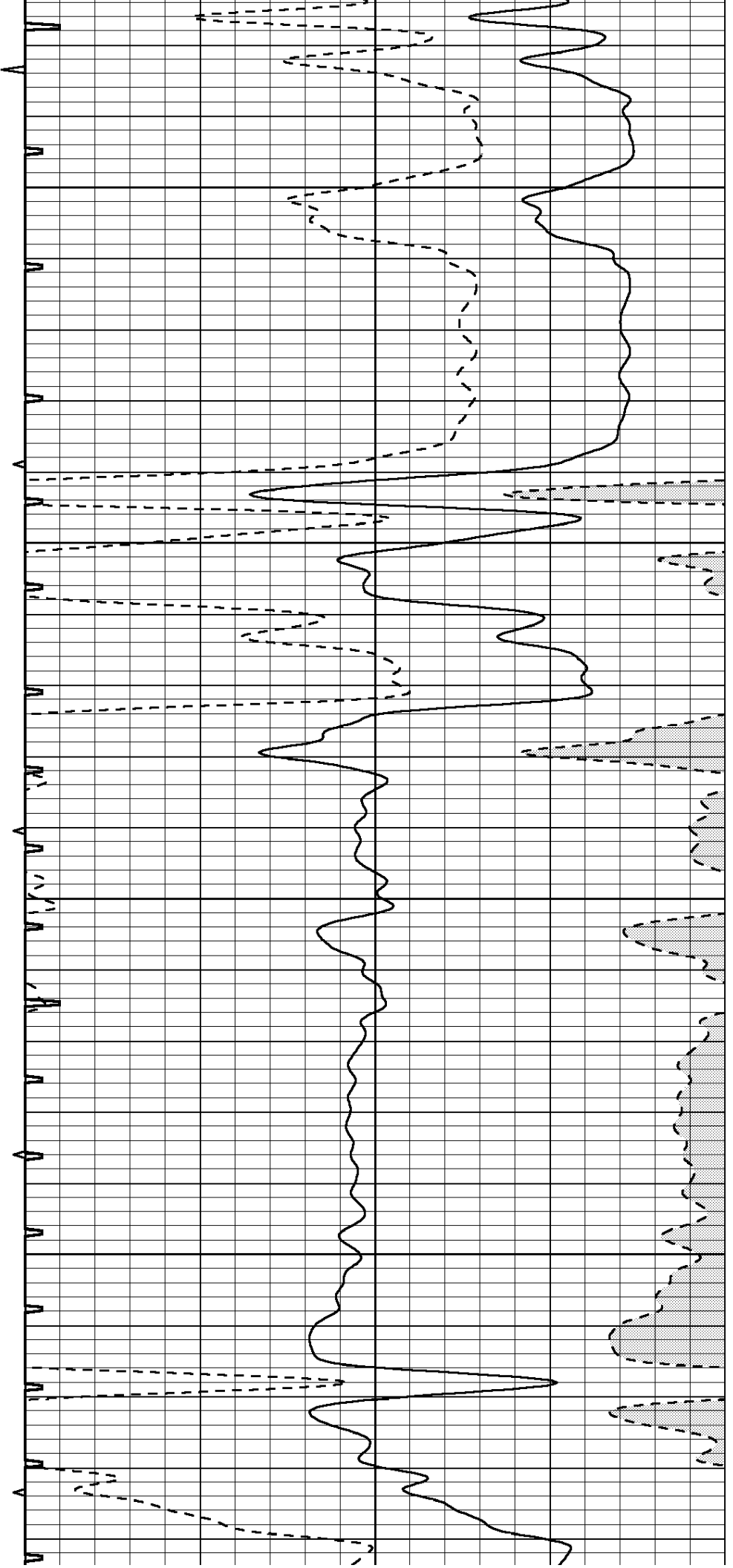


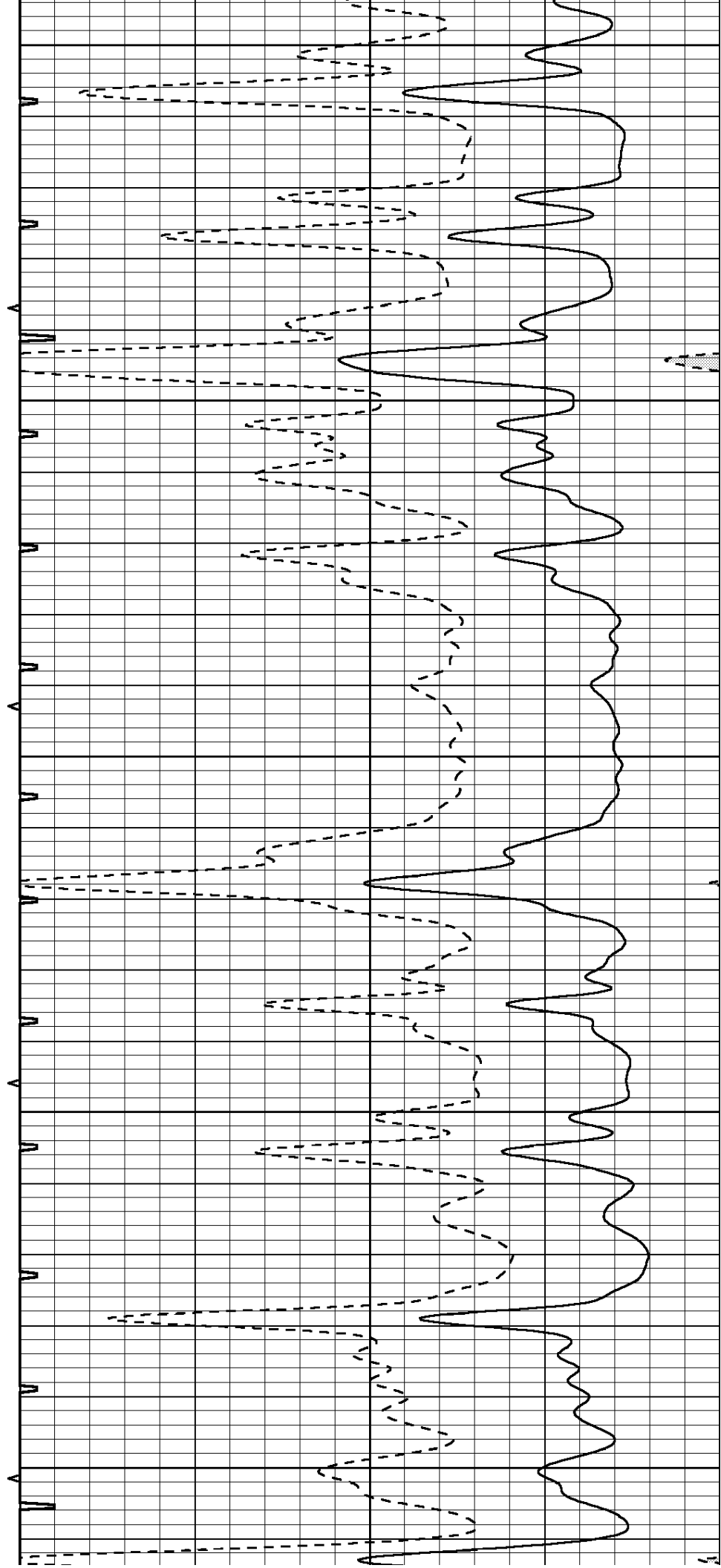
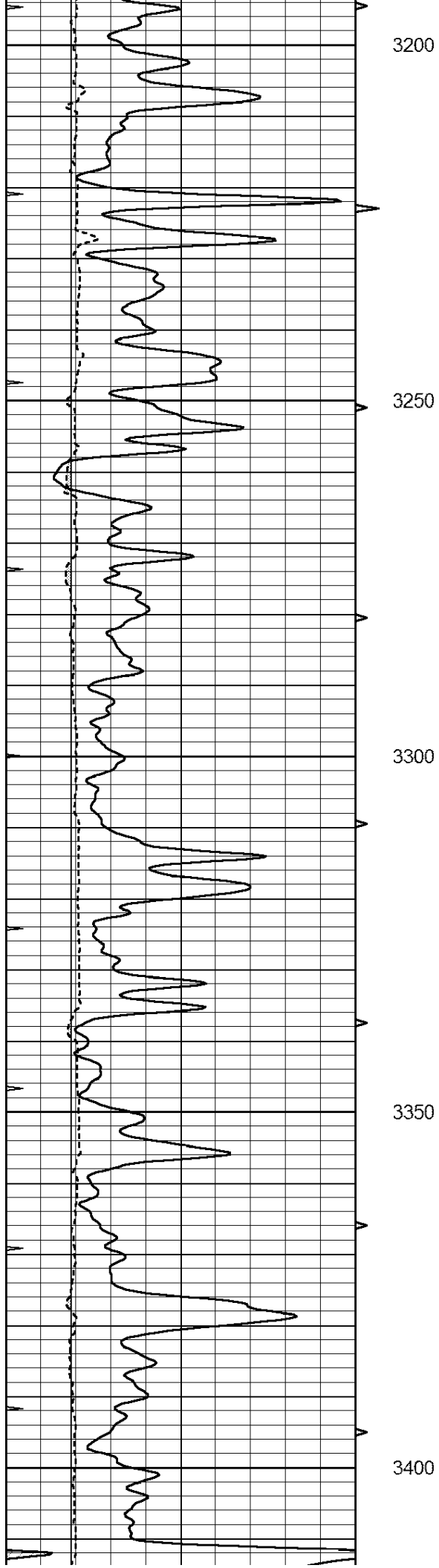
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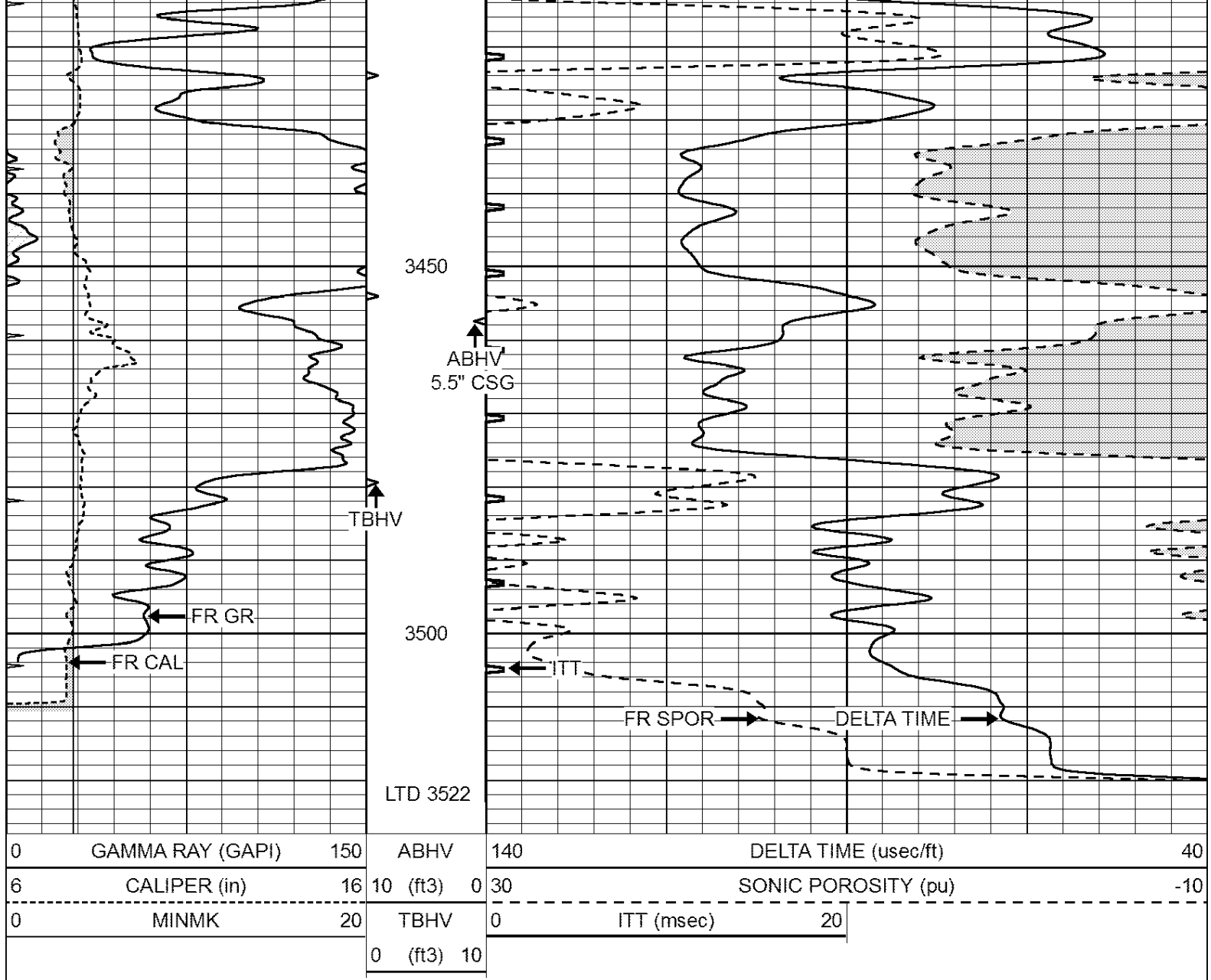
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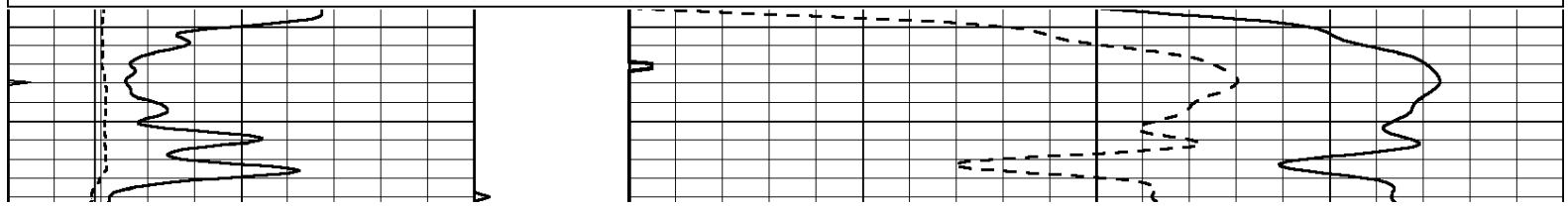
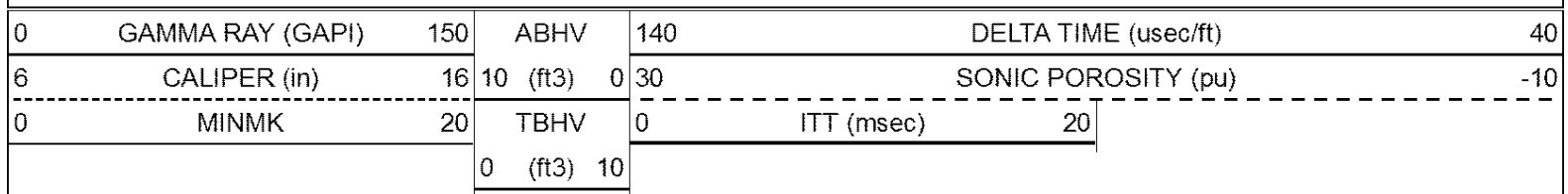


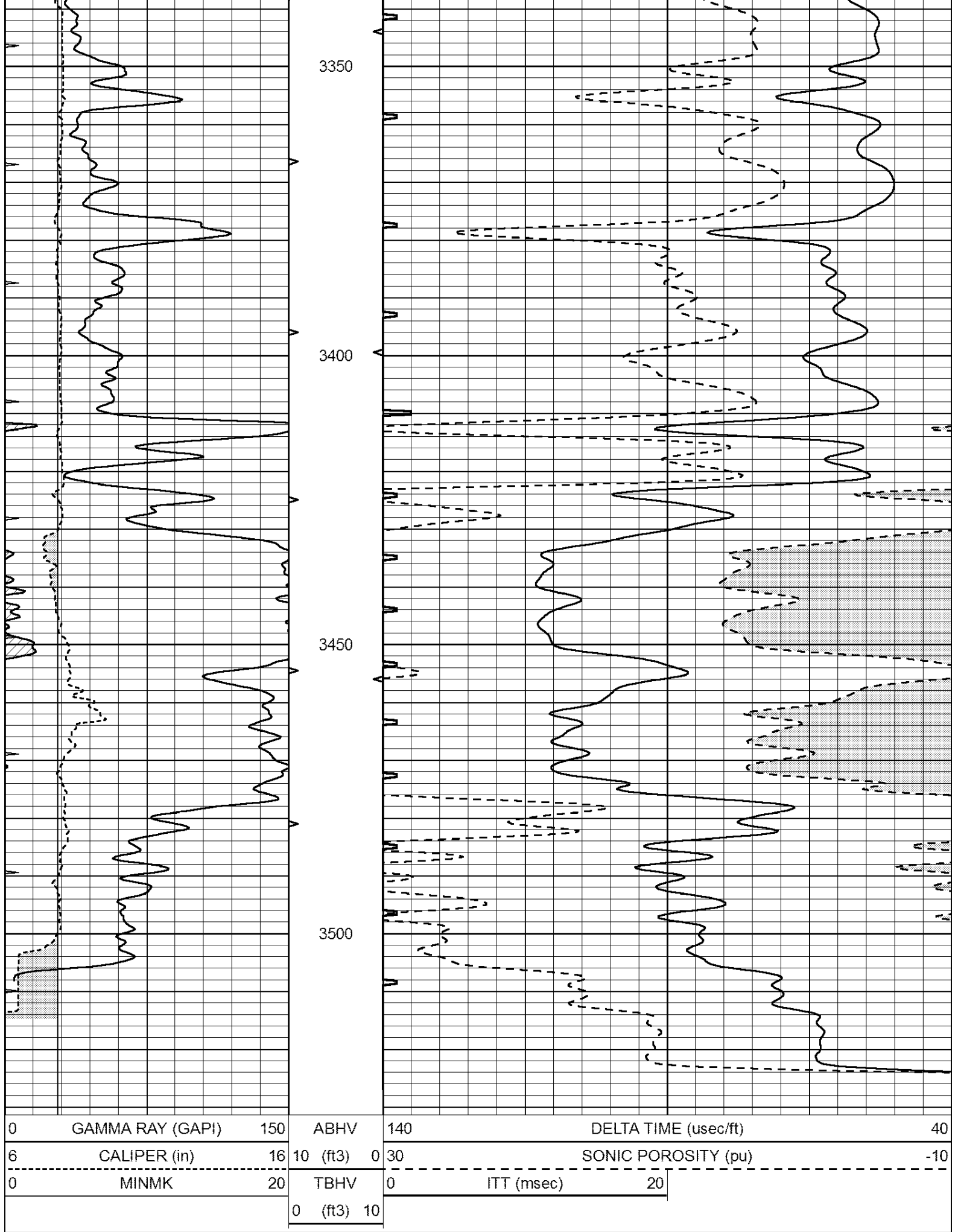


NABORS COMPLETION & PRODUCTION SERVICES CO.

REPEAT SECTION

Database File: 010870ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _slt
 Dataset Creation: Fri Apr 12 09:34:08 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 010870ddn.db
Dataset Pathname: pass5.1
Dataset Creation: Fri Apr 12 09:34:08 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
Tool Model: PROBE
Performed: Tue Jan 15 17:57:23 2013

Caliper Calibration: Gain=5.542 Offset=-1.120

	Low Cal	High Cal
References	8.000	14.000
Readings	1.431	2.513

1.5" Calibration: Gain=45.075 Offset=-0.700

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196

2" Calibration: Gain=41.041 Offset=0.000

	Low Cal	High Cal
References	0.000	20.000
Readings	0.006	0.913

Gamma Ray Calibration Report

Serial Number: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps

Sensitivity: 0.8371 GAPI/cps