



SUPERIOR
Hays,
Kansas

**DUAL
INDUCTION
LOG**

Company DAYSTAR PETROLEUM
Well SEBES B #2-18
Field HANSTON - OPPY
County HODGEMAN
State KANSAS

Company DAYSTAR PETROLEUM
Well SEBES B #2-18
Field HANSTON - OPPY
County HODGEMAN State KANSAS

Location: API # : 15-083-21724-0000
400' FSL & 2129' FWL
SE - SE - SW
SEC 18 TWP 22S RGE 22W
Permanent Datum GROUND LEVEL Elevation 2301
Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
MEL/SON
Elevation
K.B. 2308
D.F. 2306
G.L. 2301

Date	11/14/11		
Run Number	ONE		
Depth Driller	4621		
Depth Logger	4622		
Bottom Logged Interval	4620		
Top Log Interval	0		
Casing Driller	8 5/8"@304'		
Casing Logger	305'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4500 PPM	
Density / Viscosity	9.4/45		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.65@82F		
Rmt @ Meas. Temp	0.49@82F		
Rmc @ Meas. Temp	0.78@82F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.44@122F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	AUSTIN GARNER		

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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

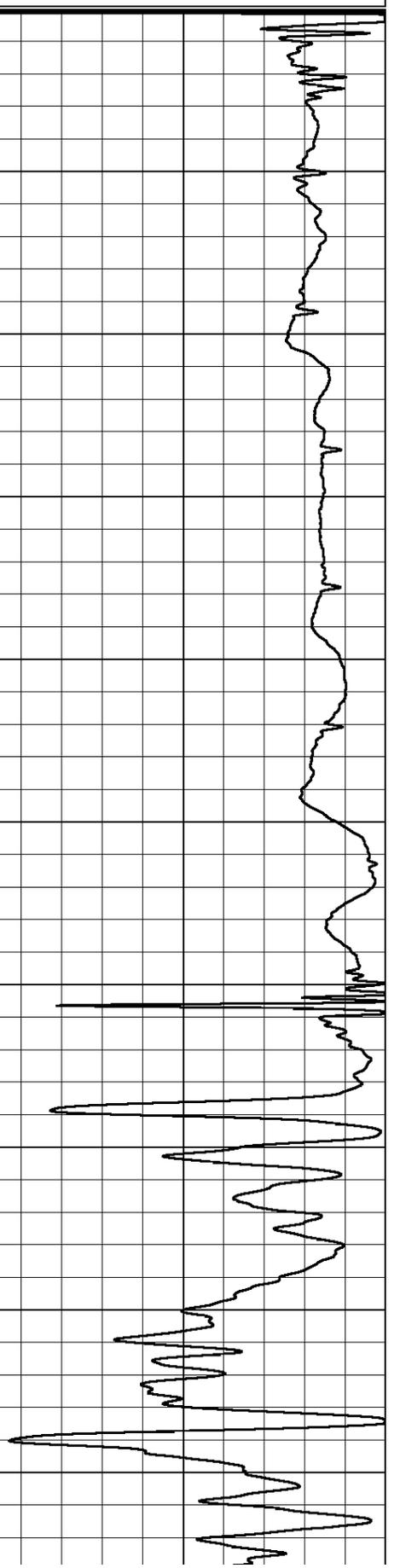
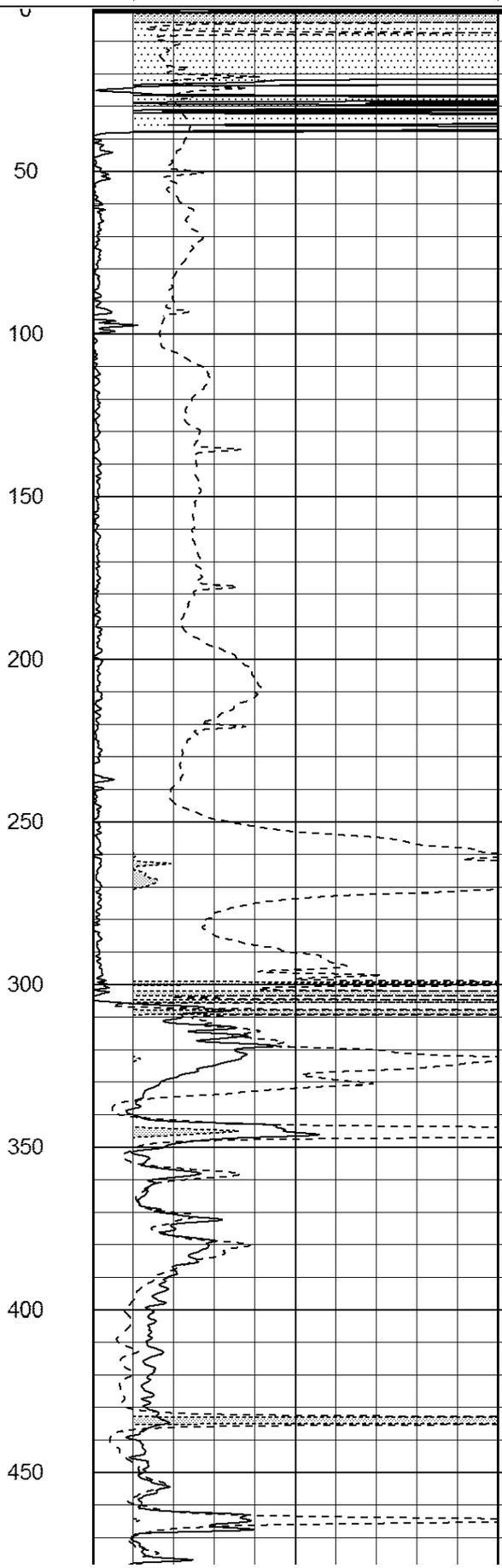
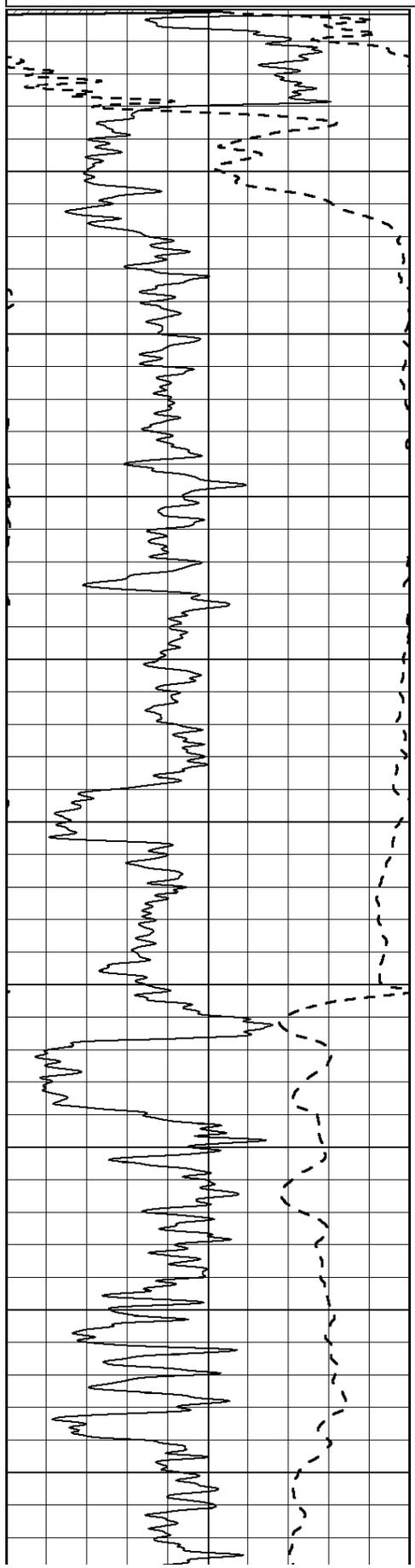
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
HANSTON, KS - 1 MILE SOUTHWEST ON HWY 156 TO RD 0 - WEST TO STOP SIGN
NORTH ON RD 225 2 MILES - 3/4 MILE WEST - NORTH INTO

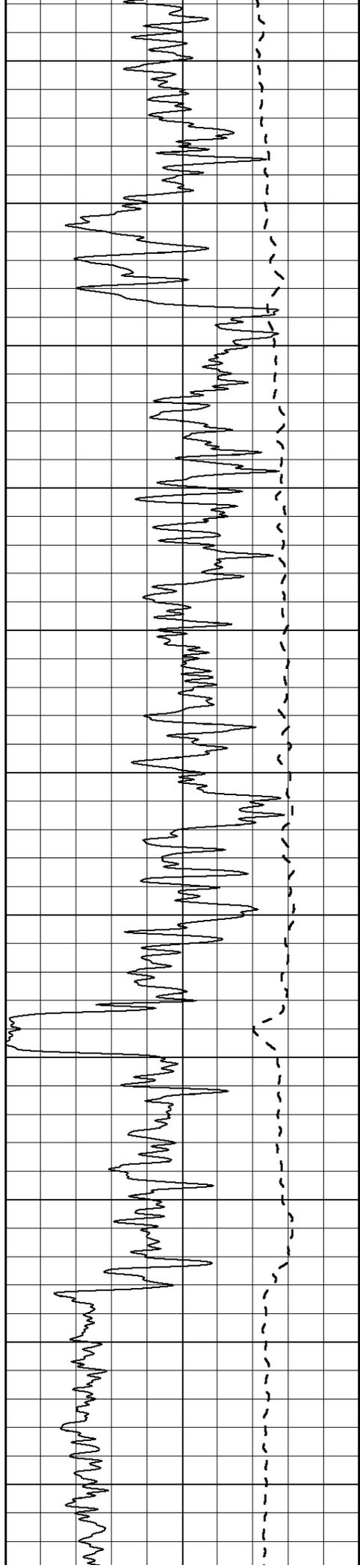
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-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50

1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500





500

550

600

650

700

750

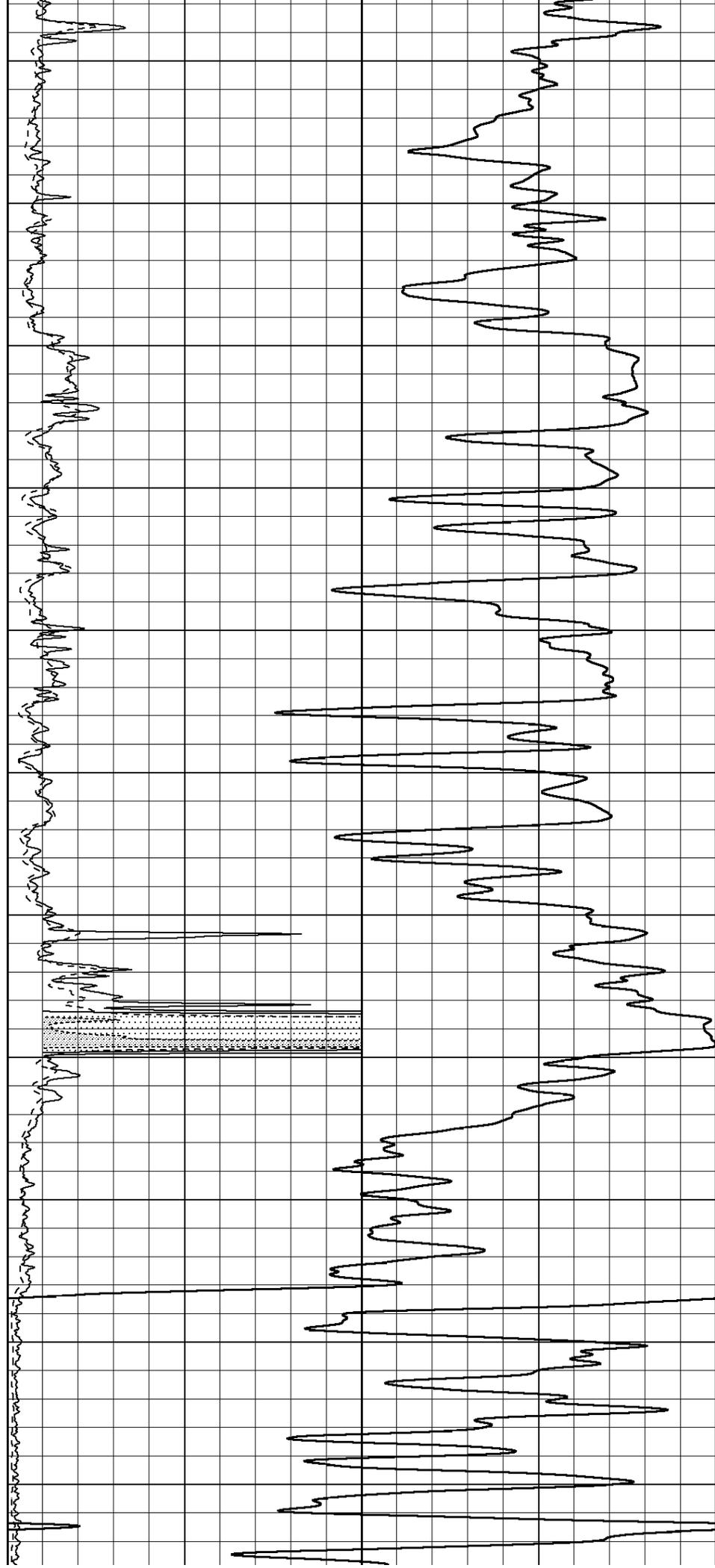
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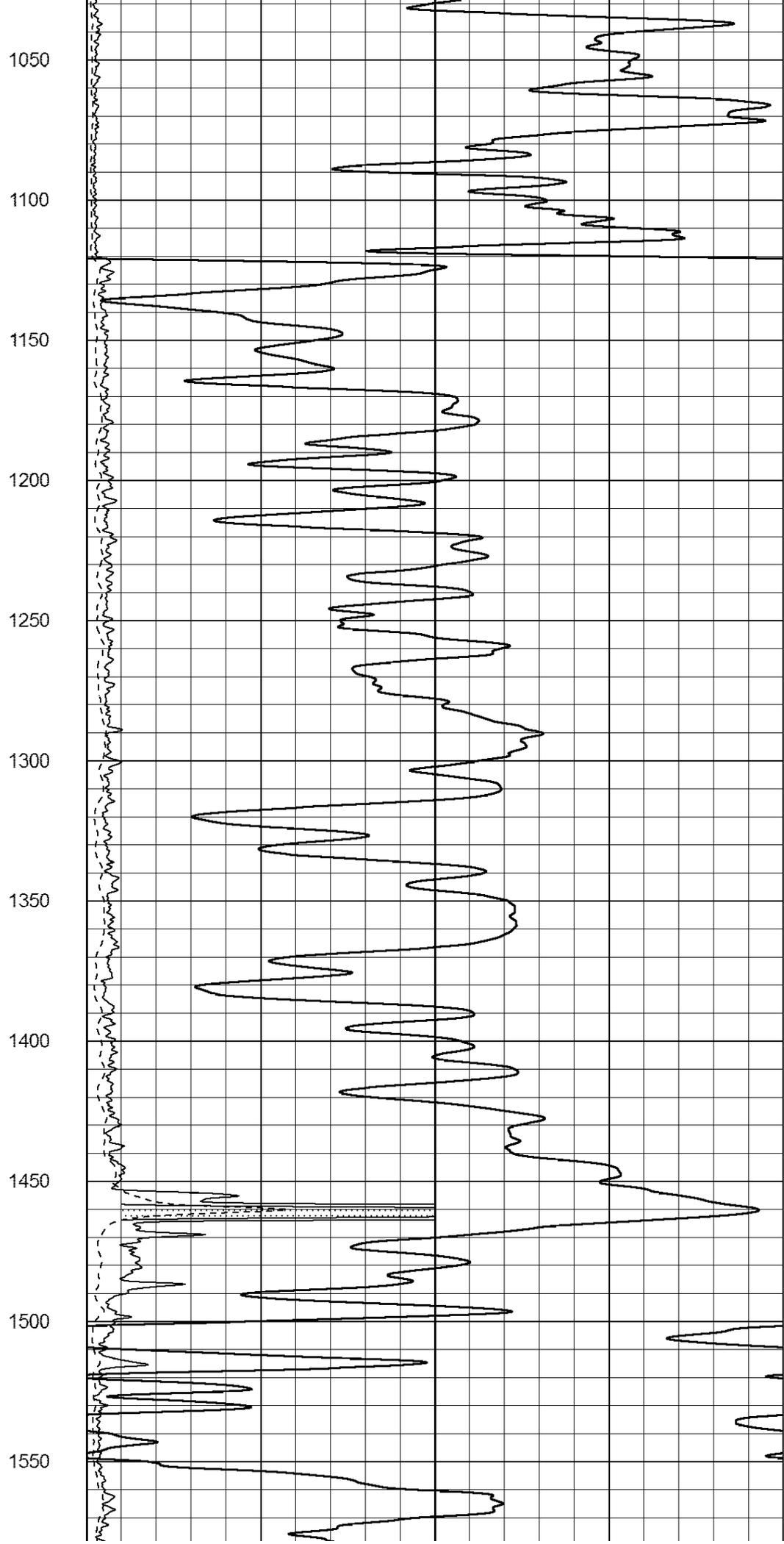
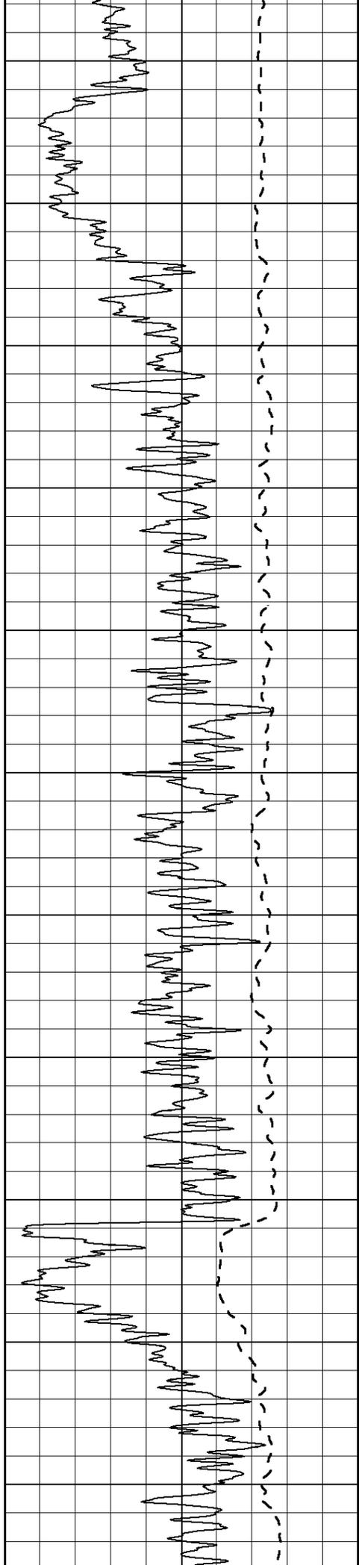
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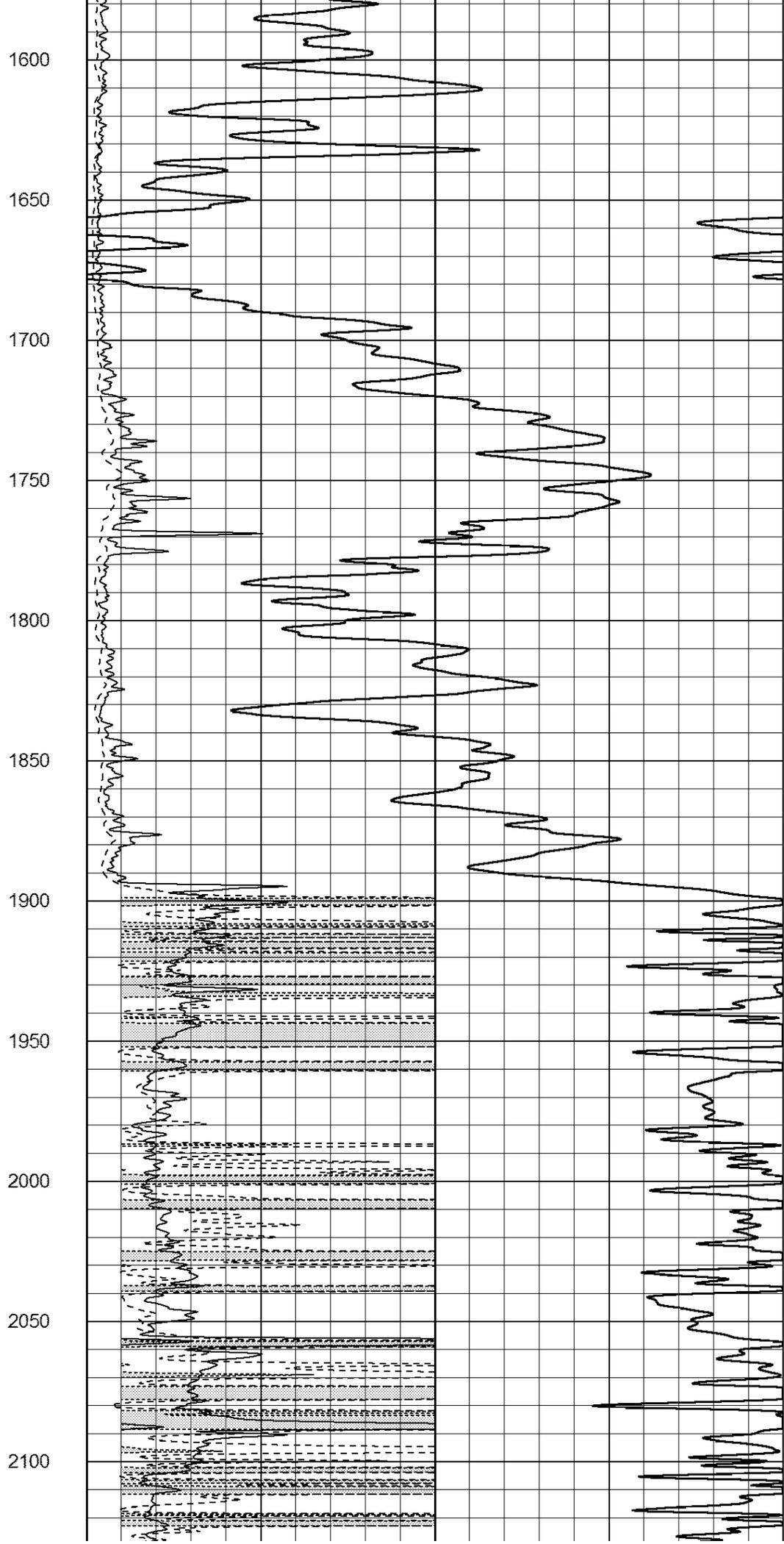
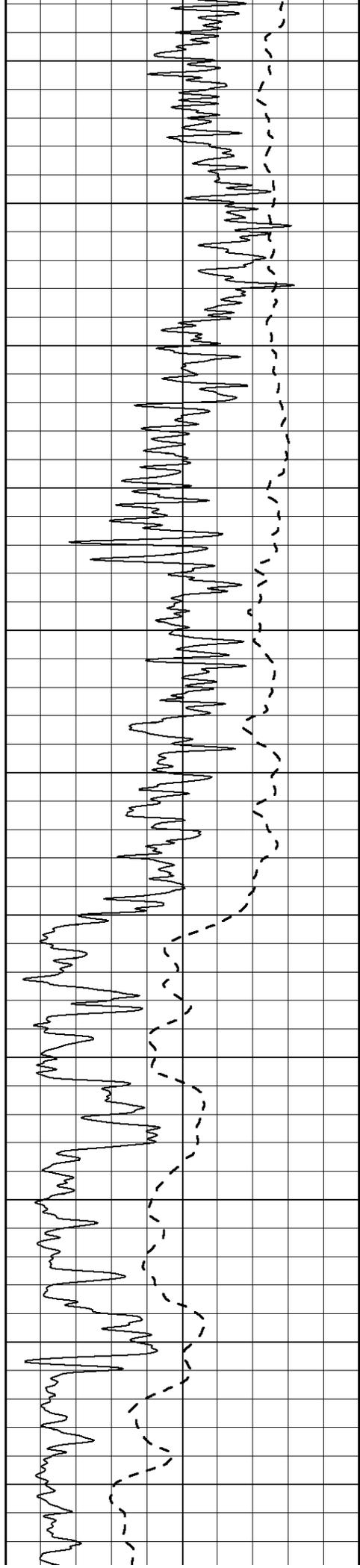
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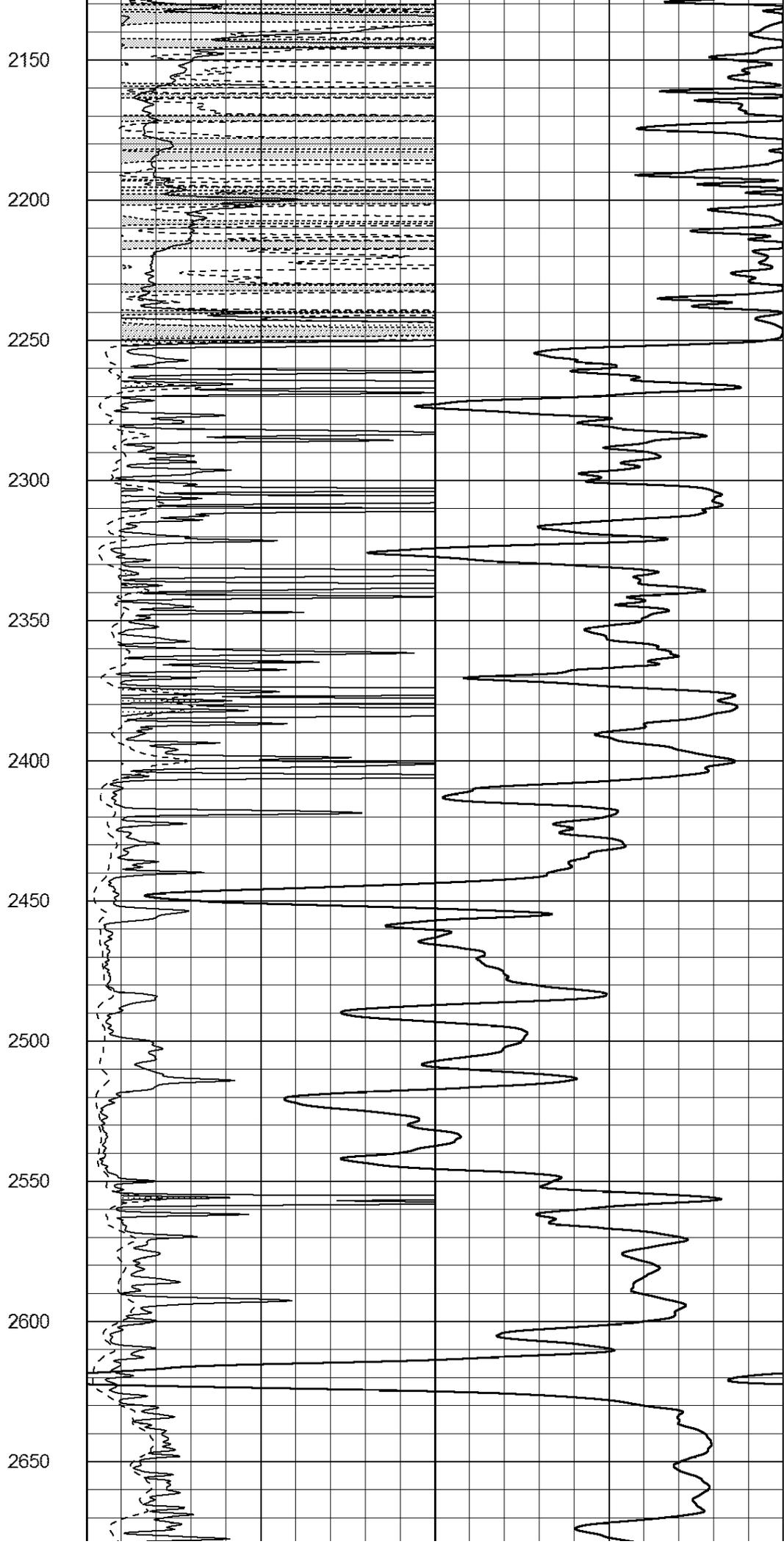
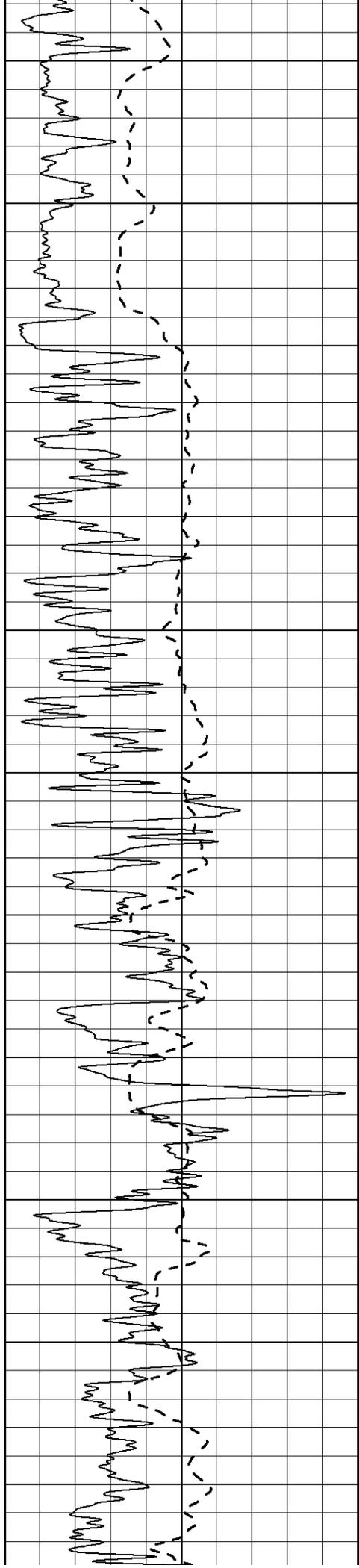
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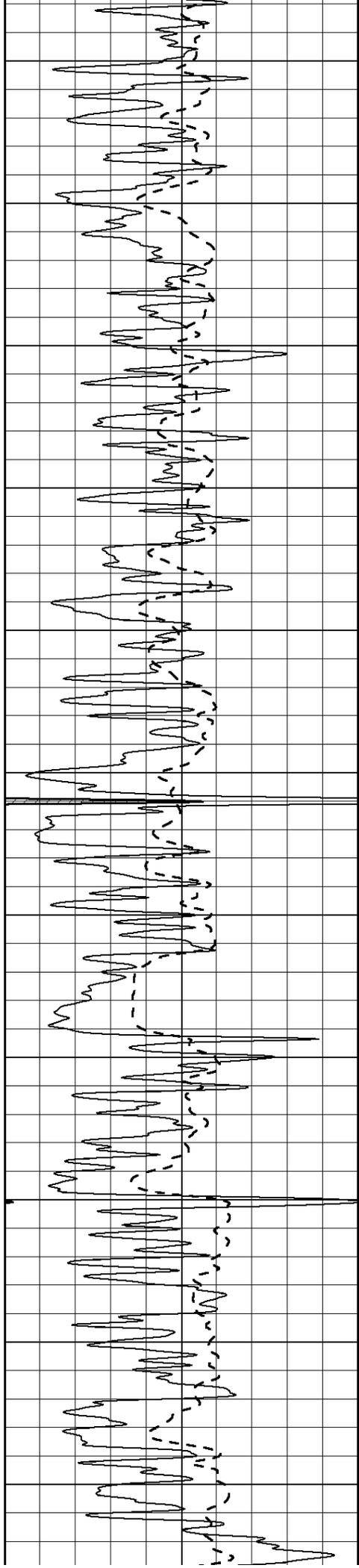
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2700

2750

2800

2850

2900

2950

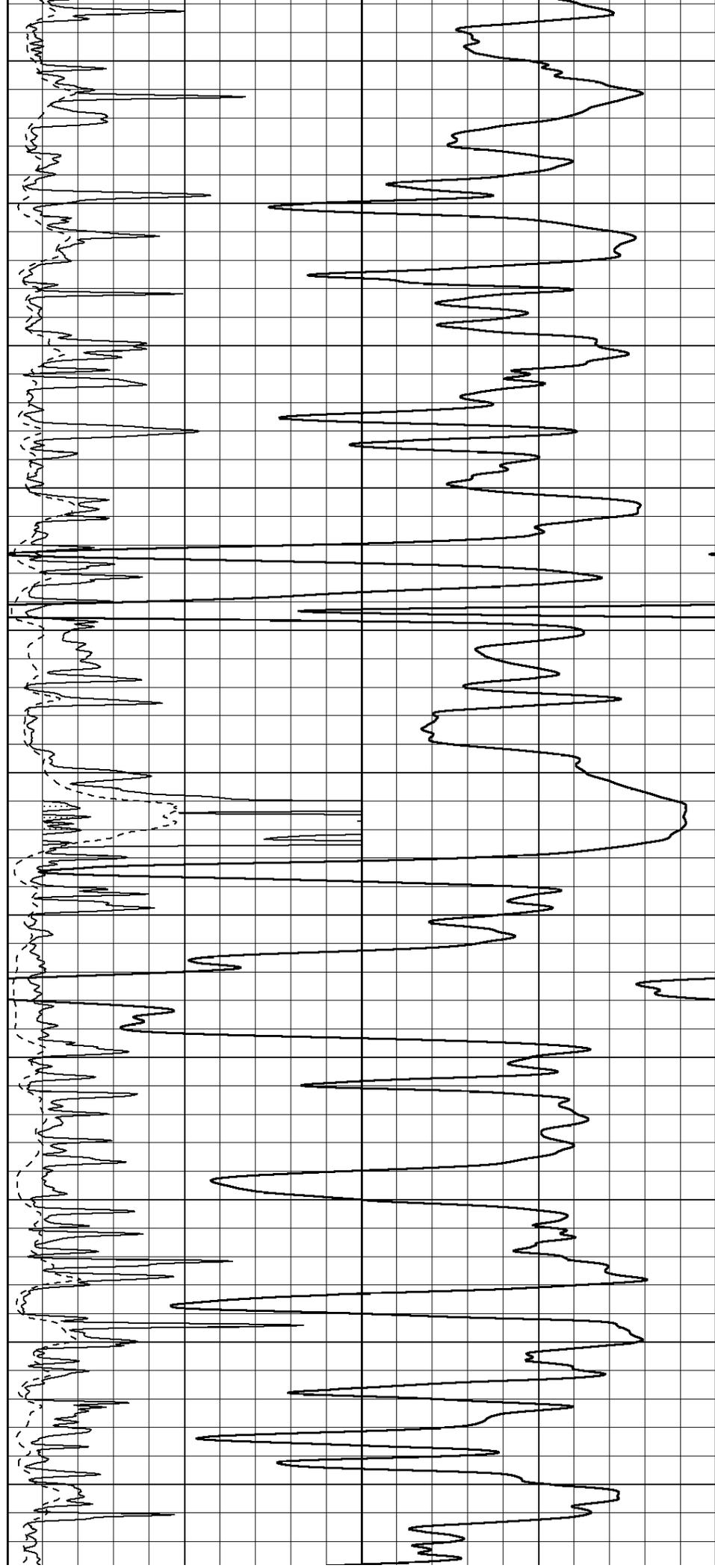
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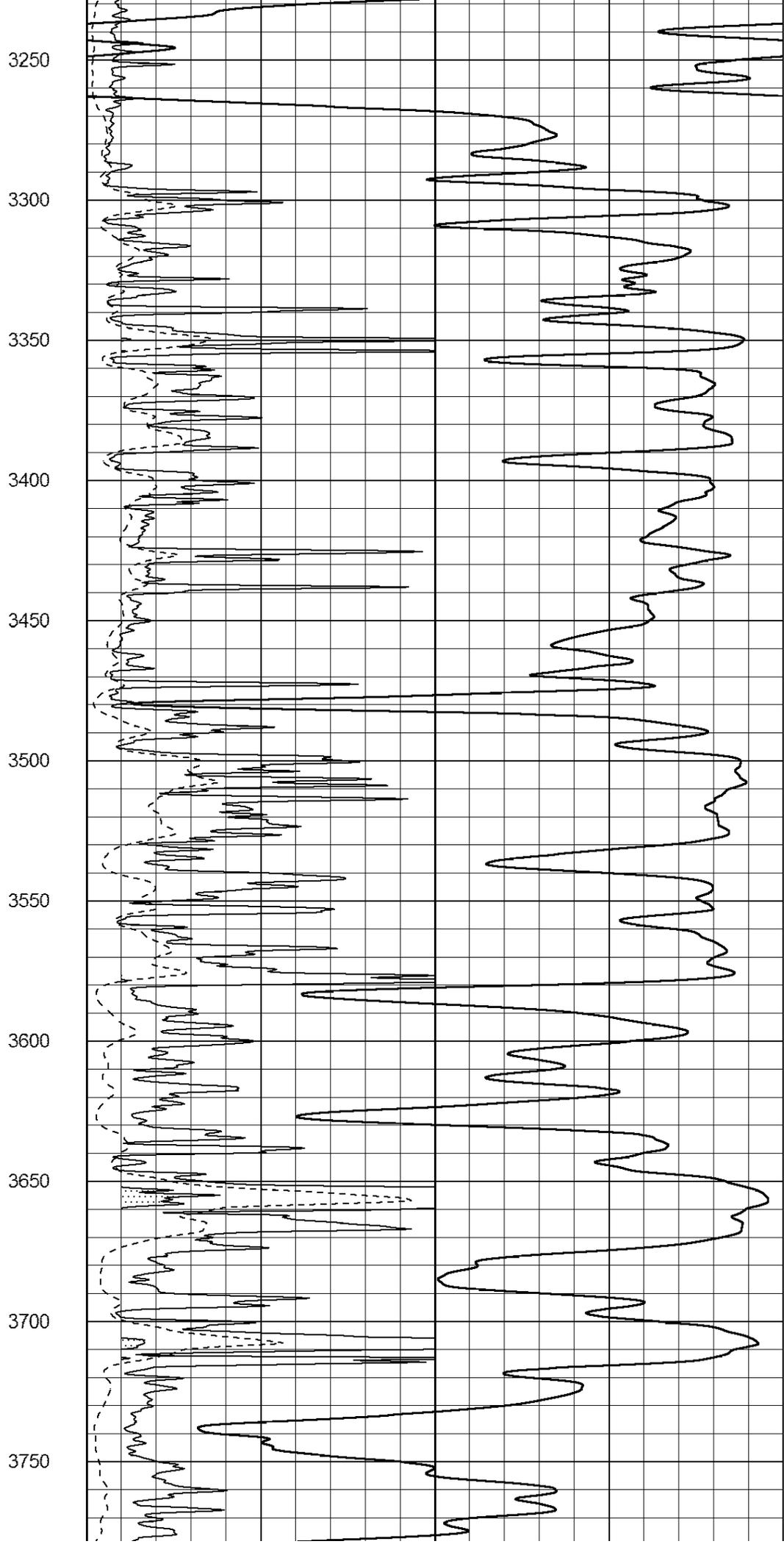
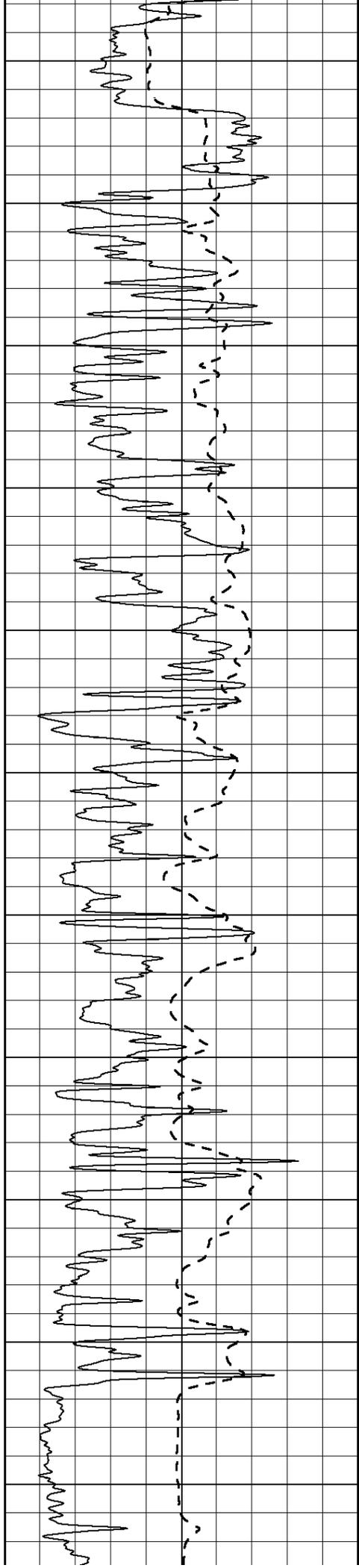
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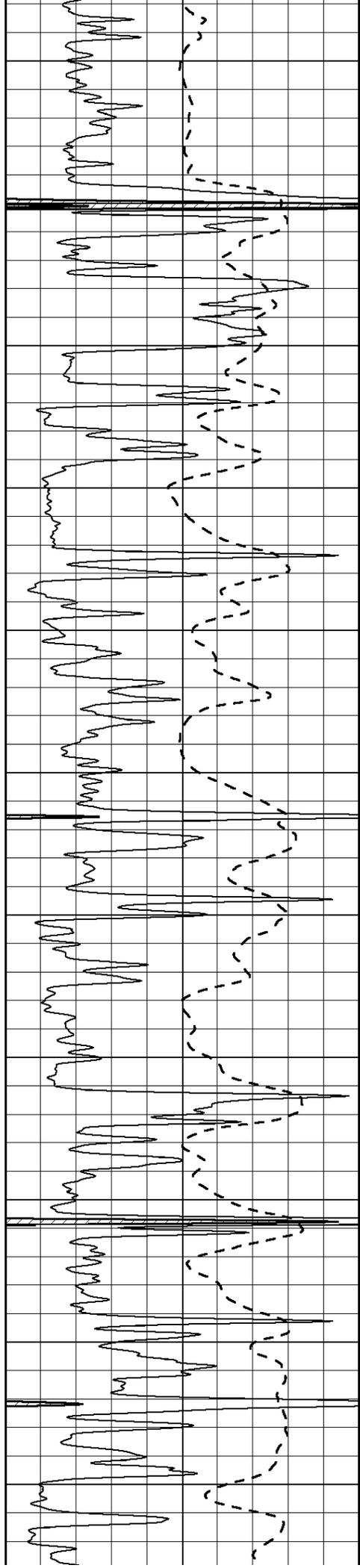
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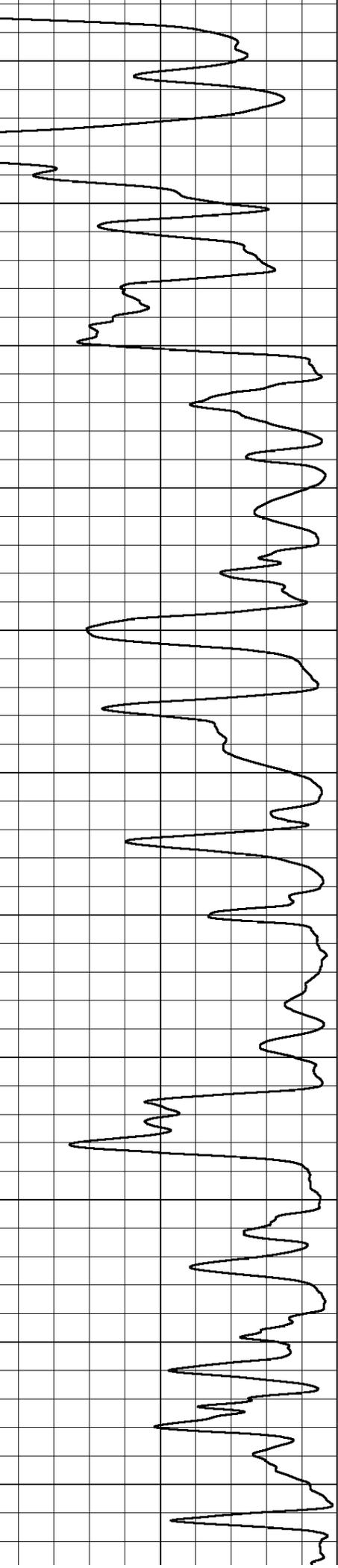
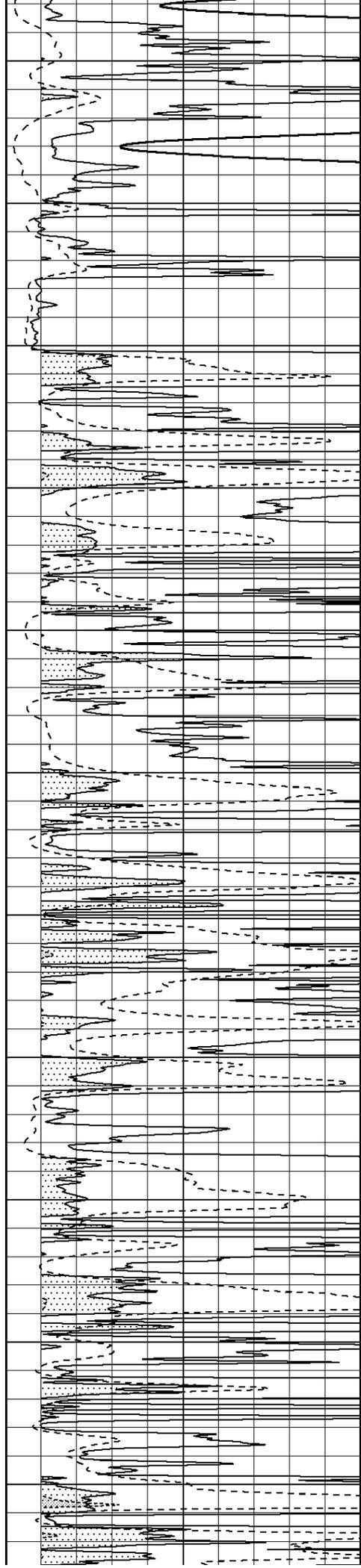
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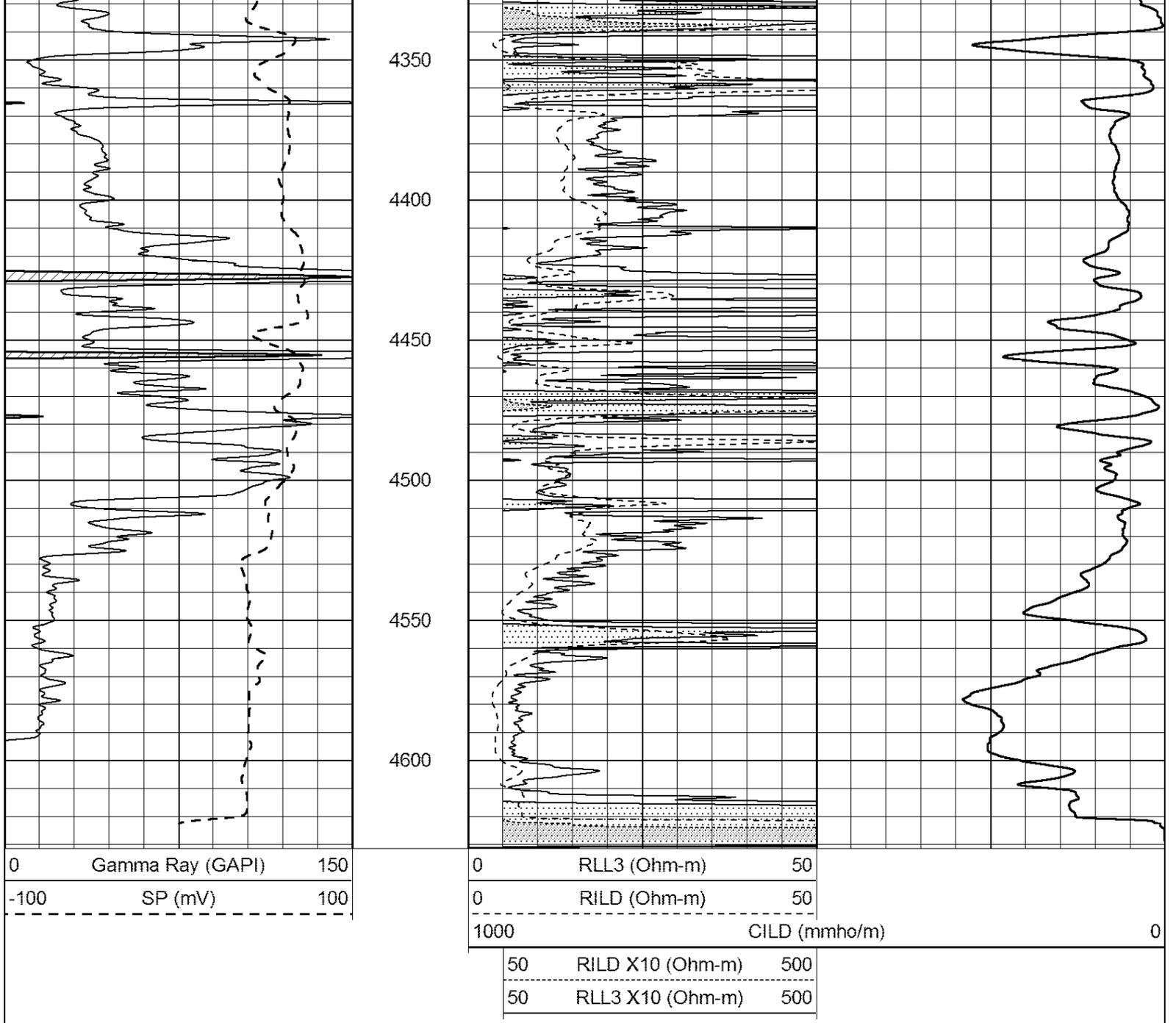




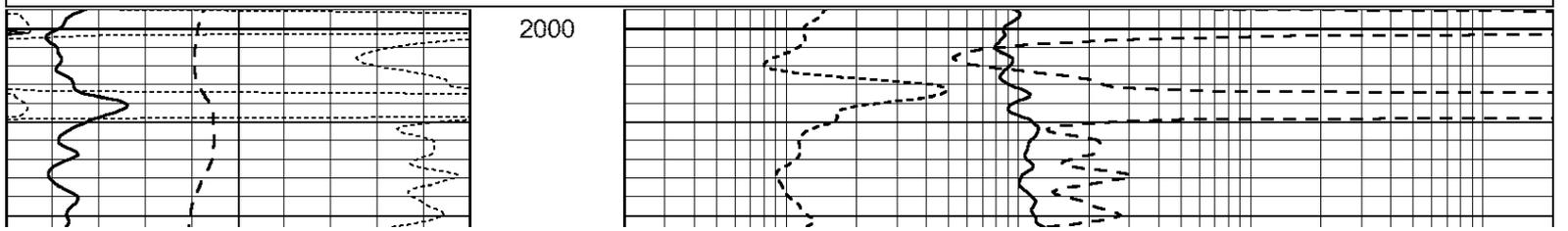
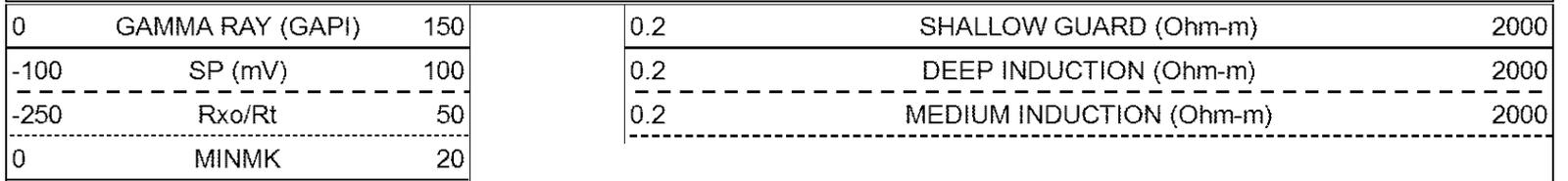


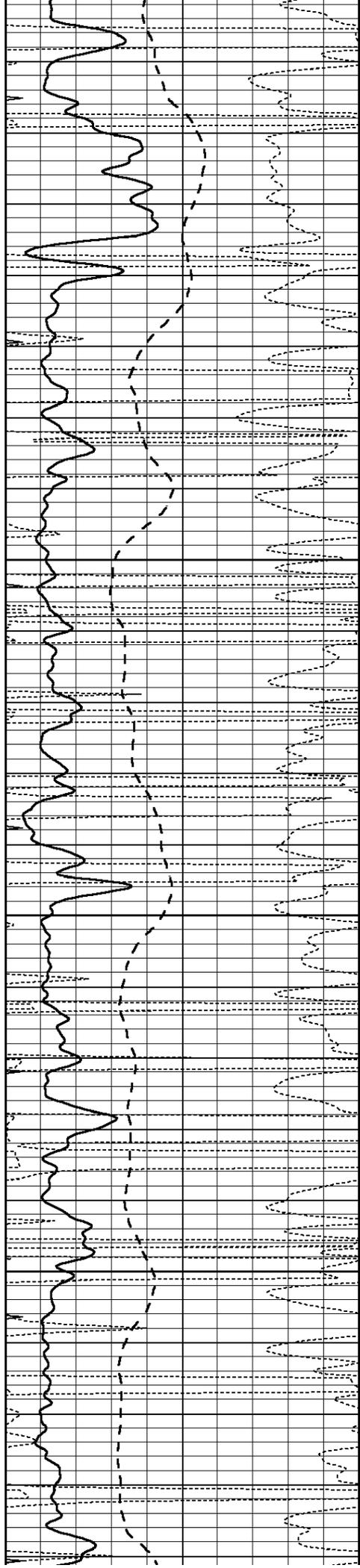
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3850
3900
3950
4000
4050
4100
4150
4200
4250
4300





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 Charted by: Depth in Feet scaled 1:240



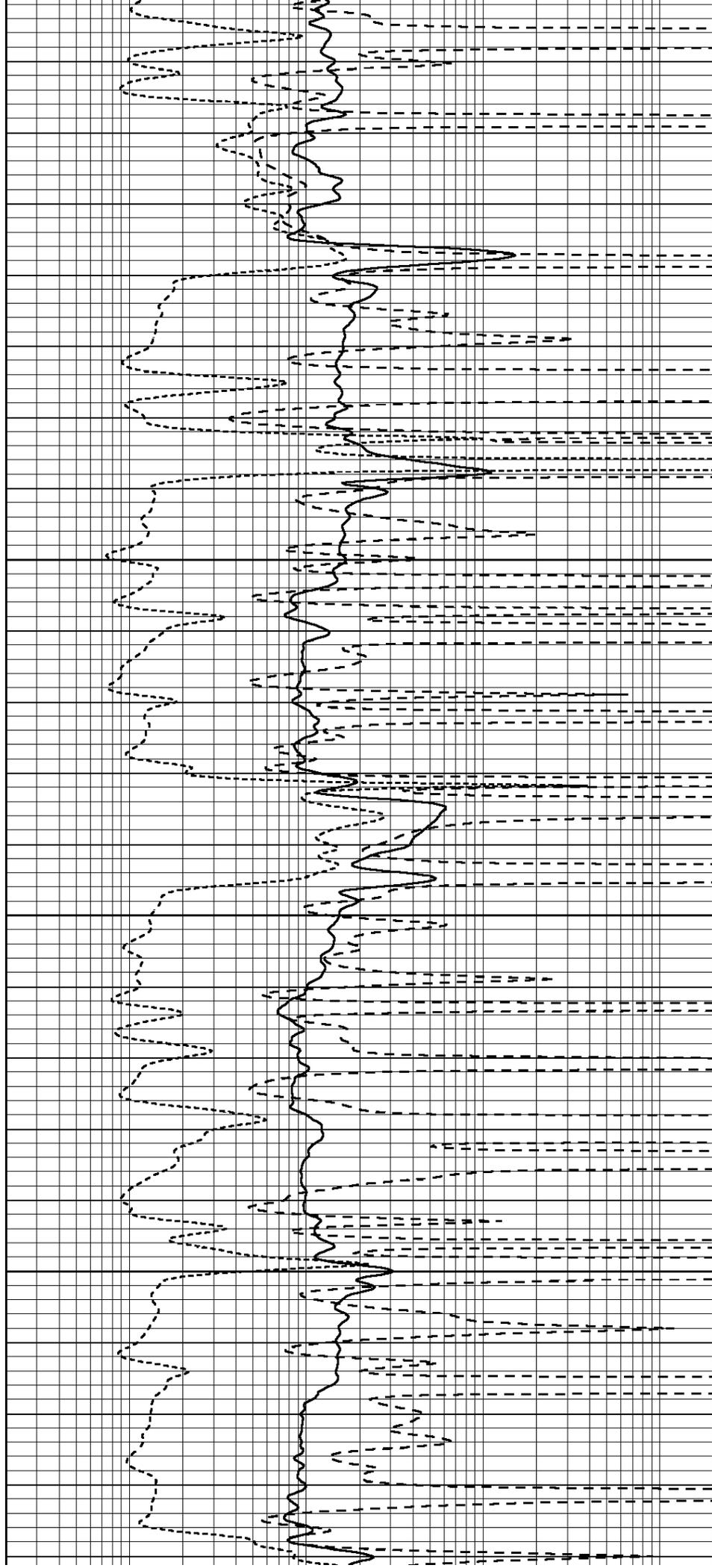


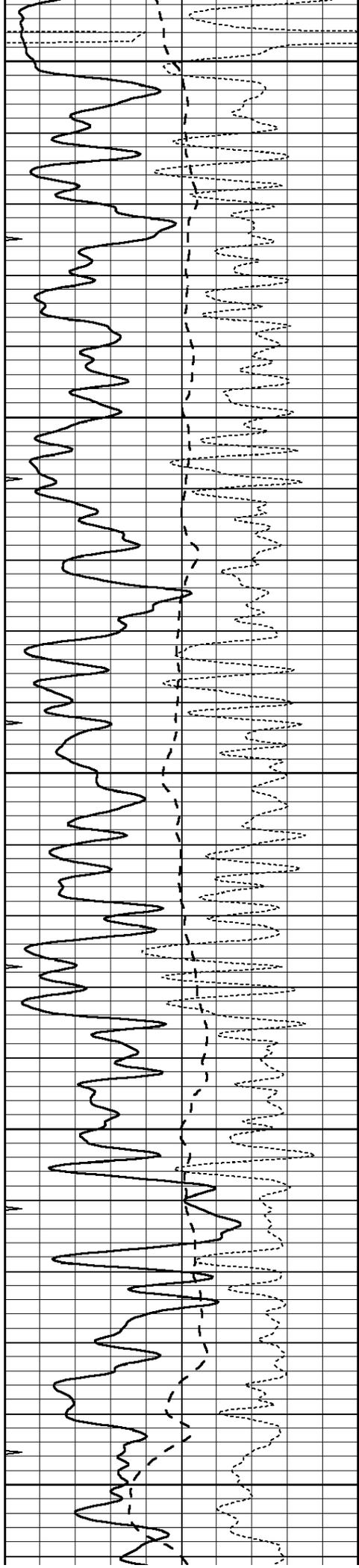
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2200





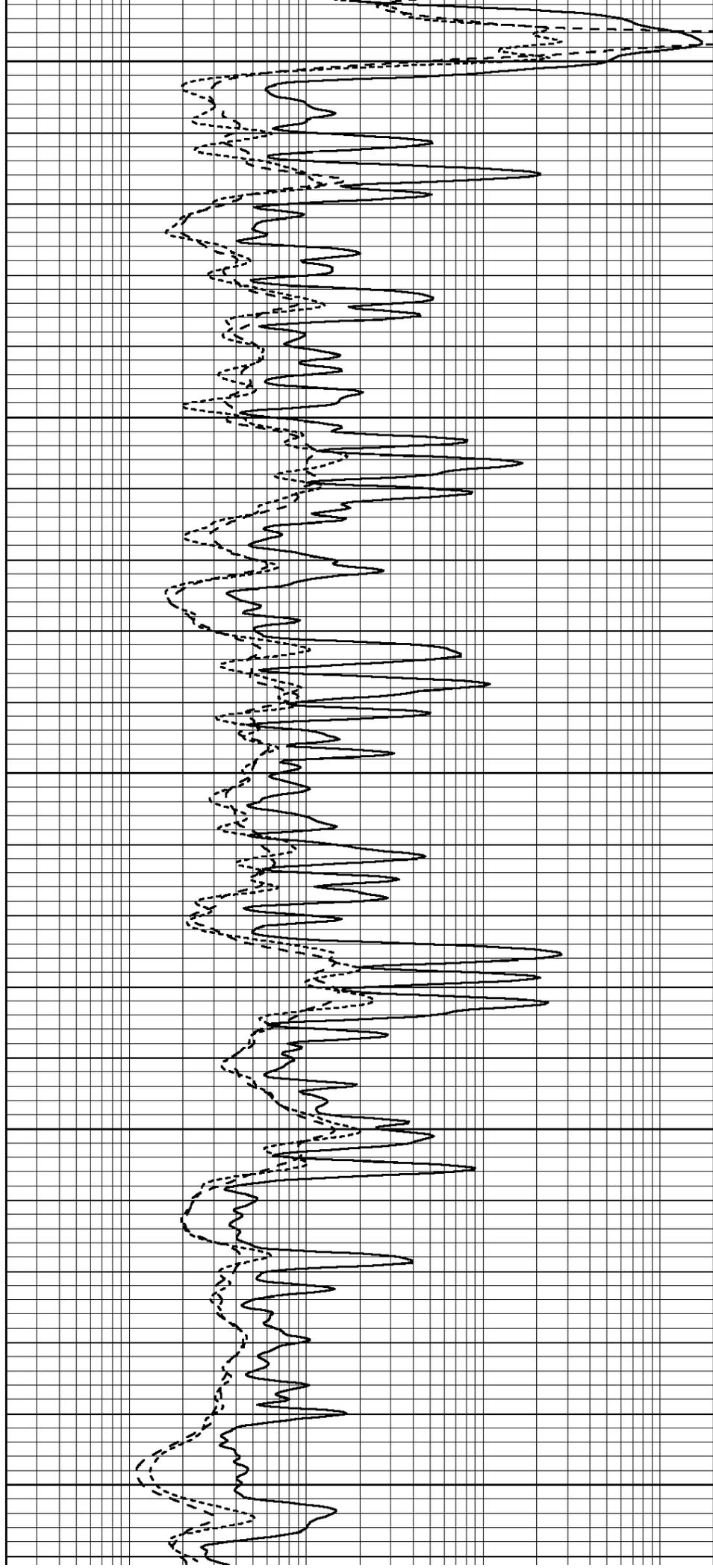
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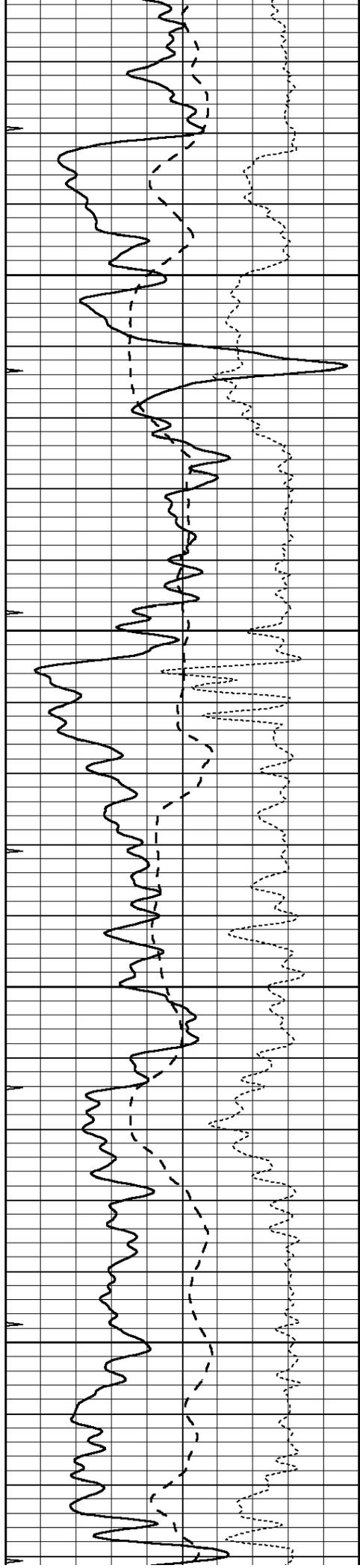
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2450



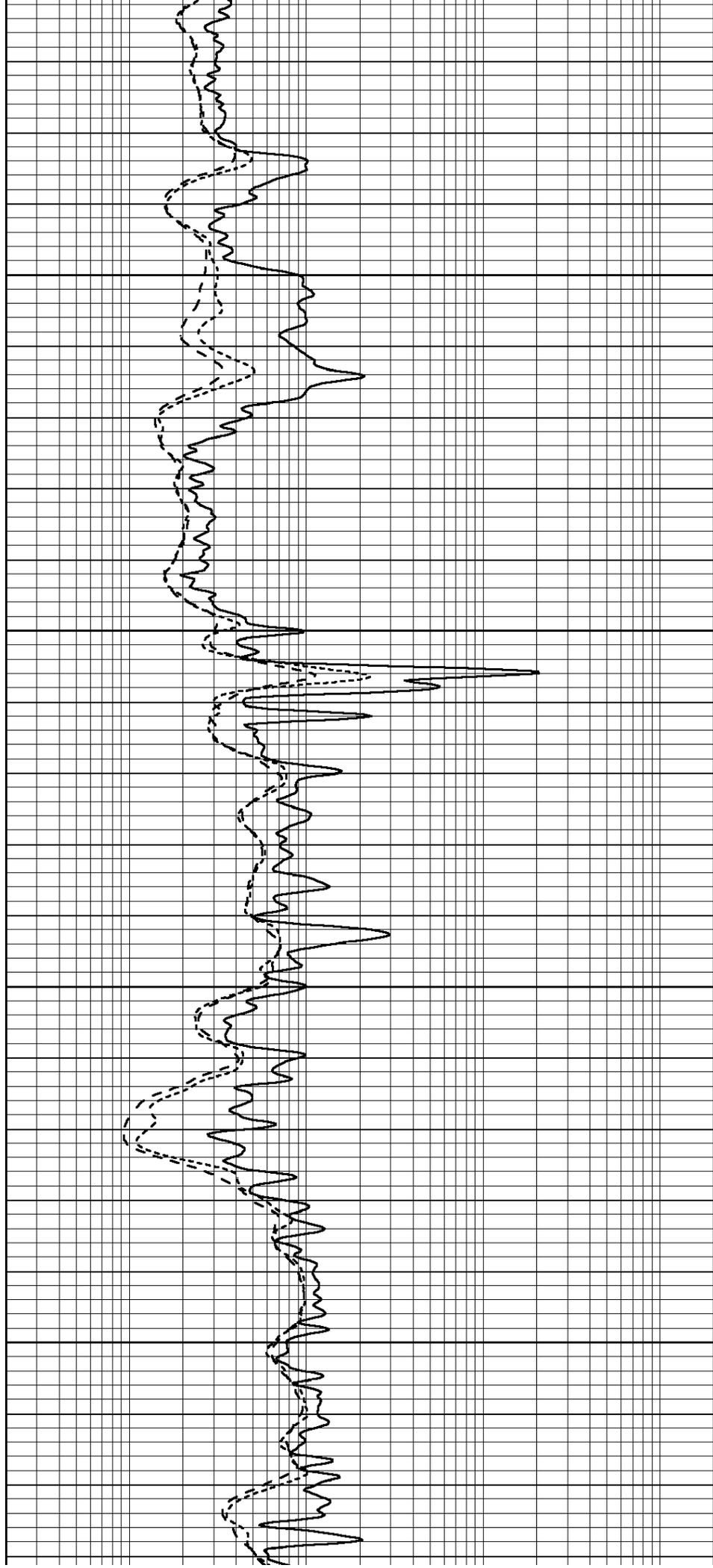


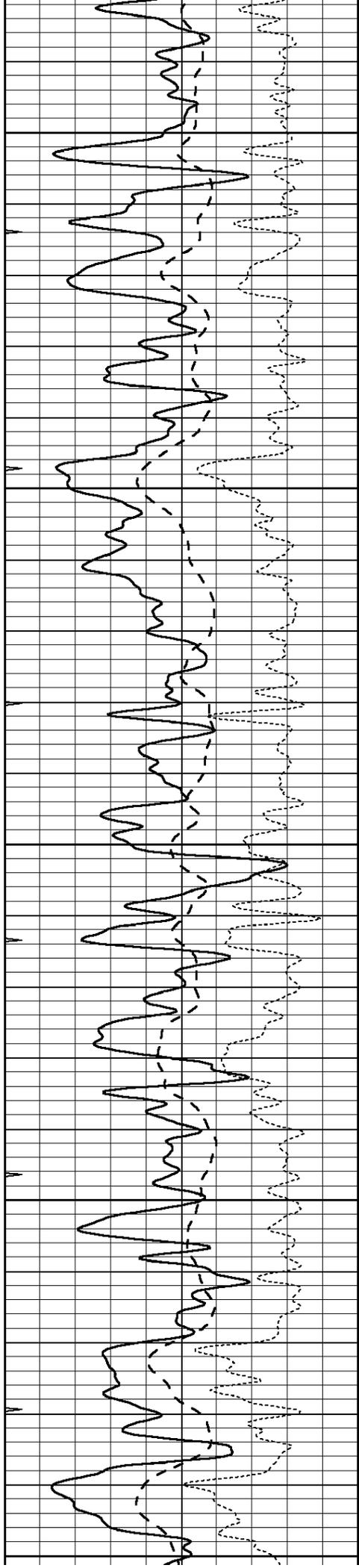
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2600

2650





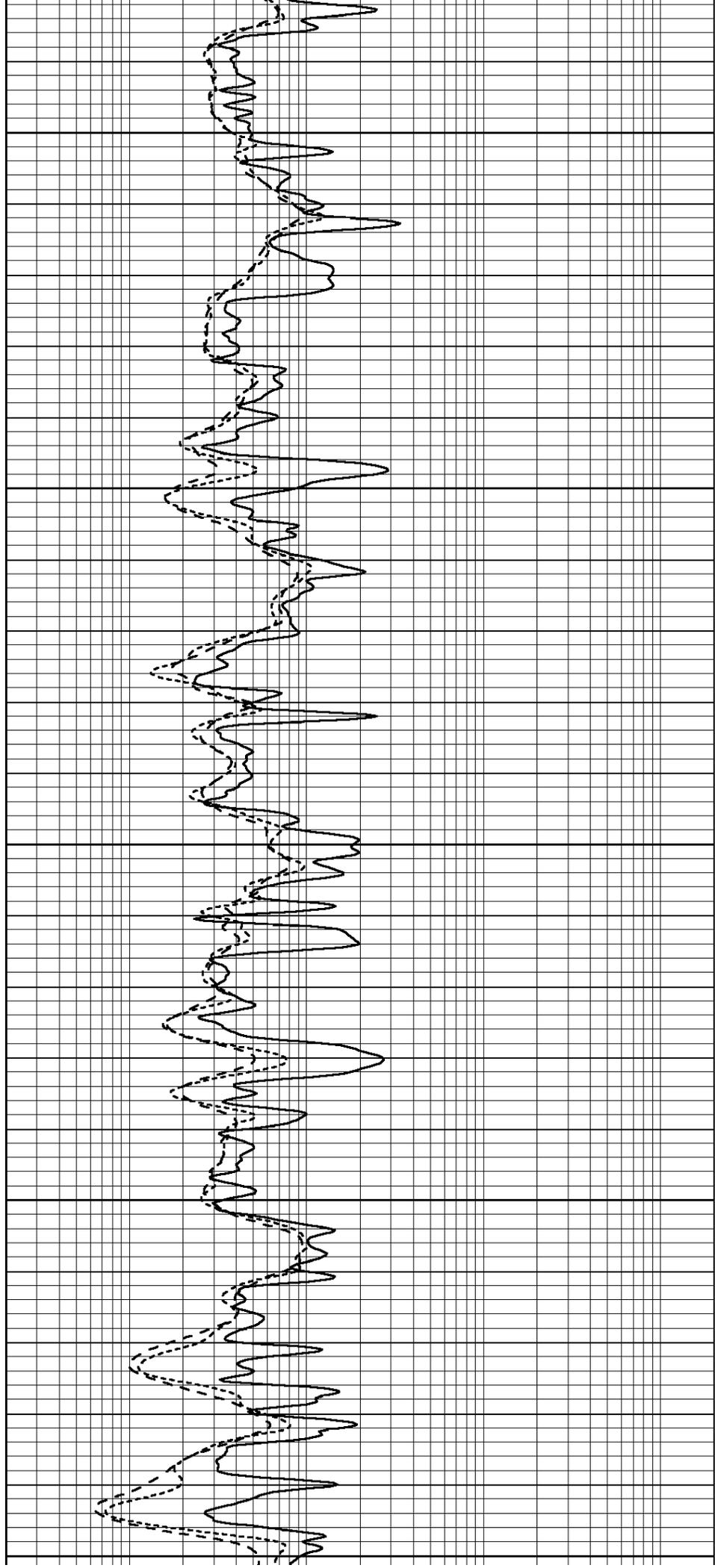
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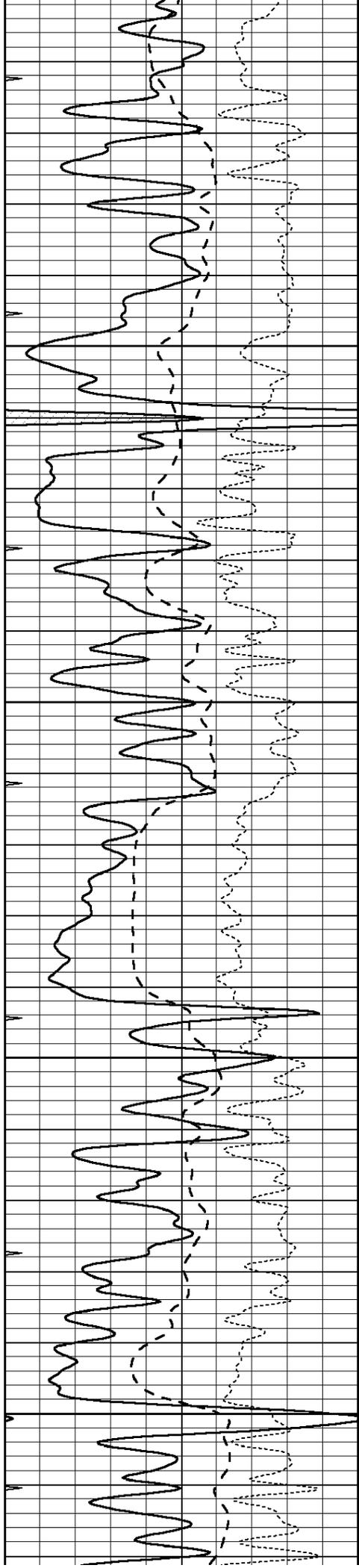
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2850

2900



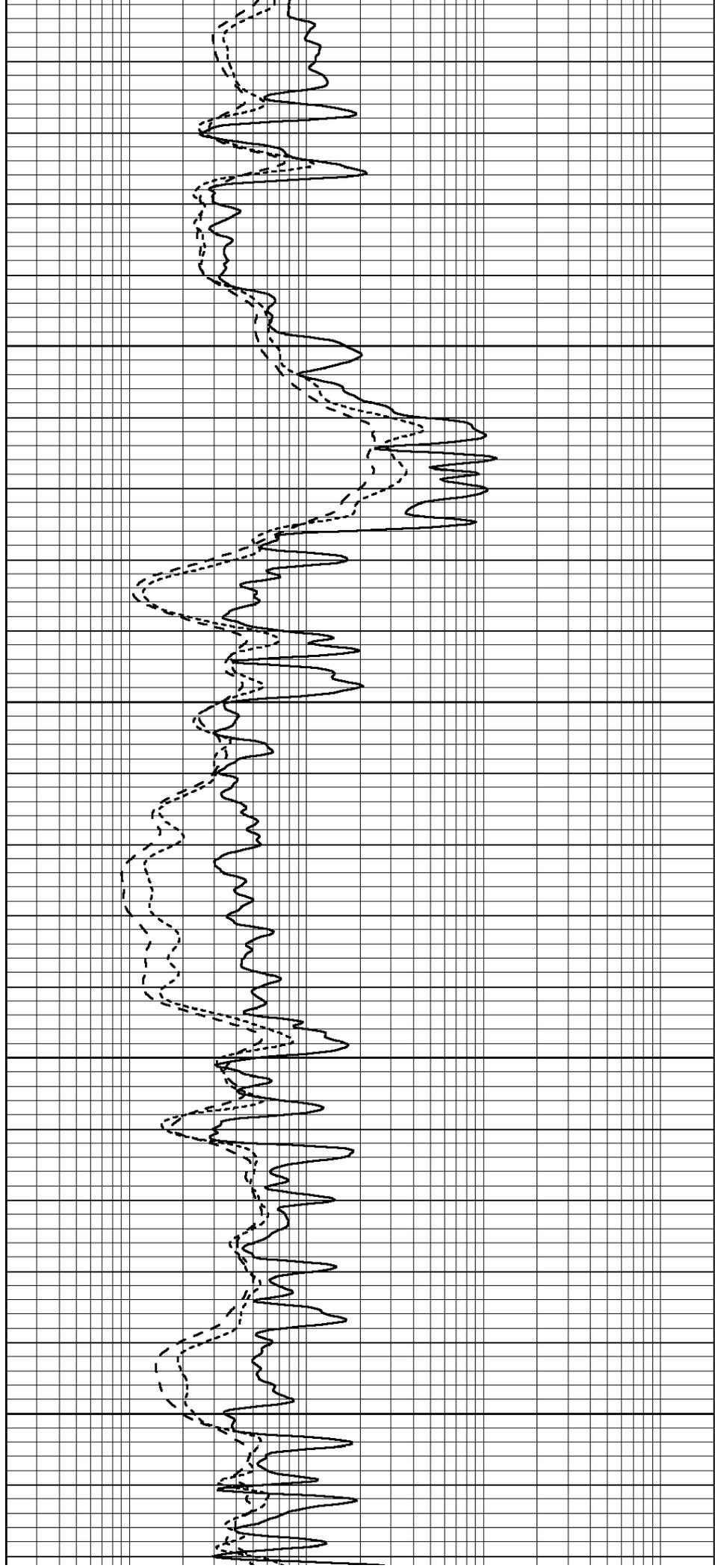


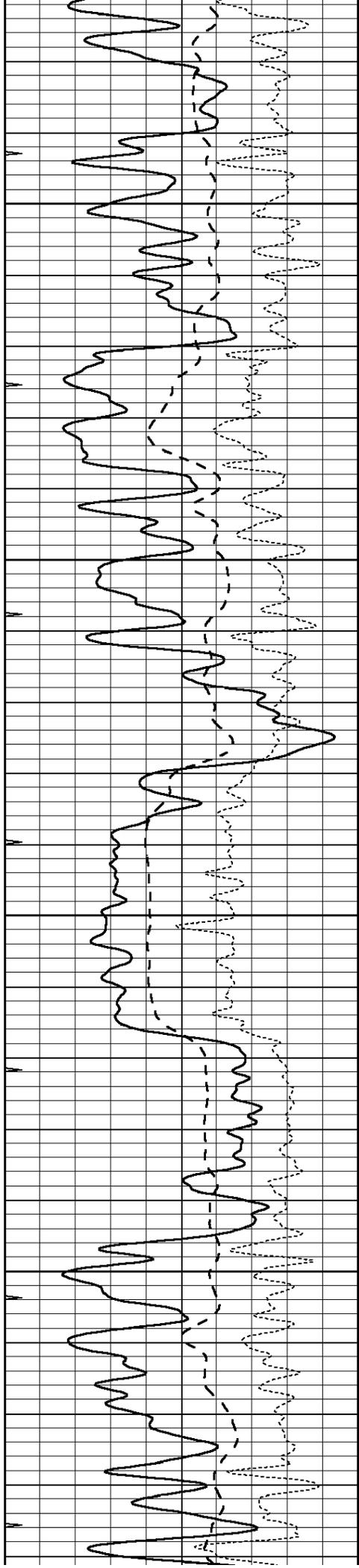
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3100



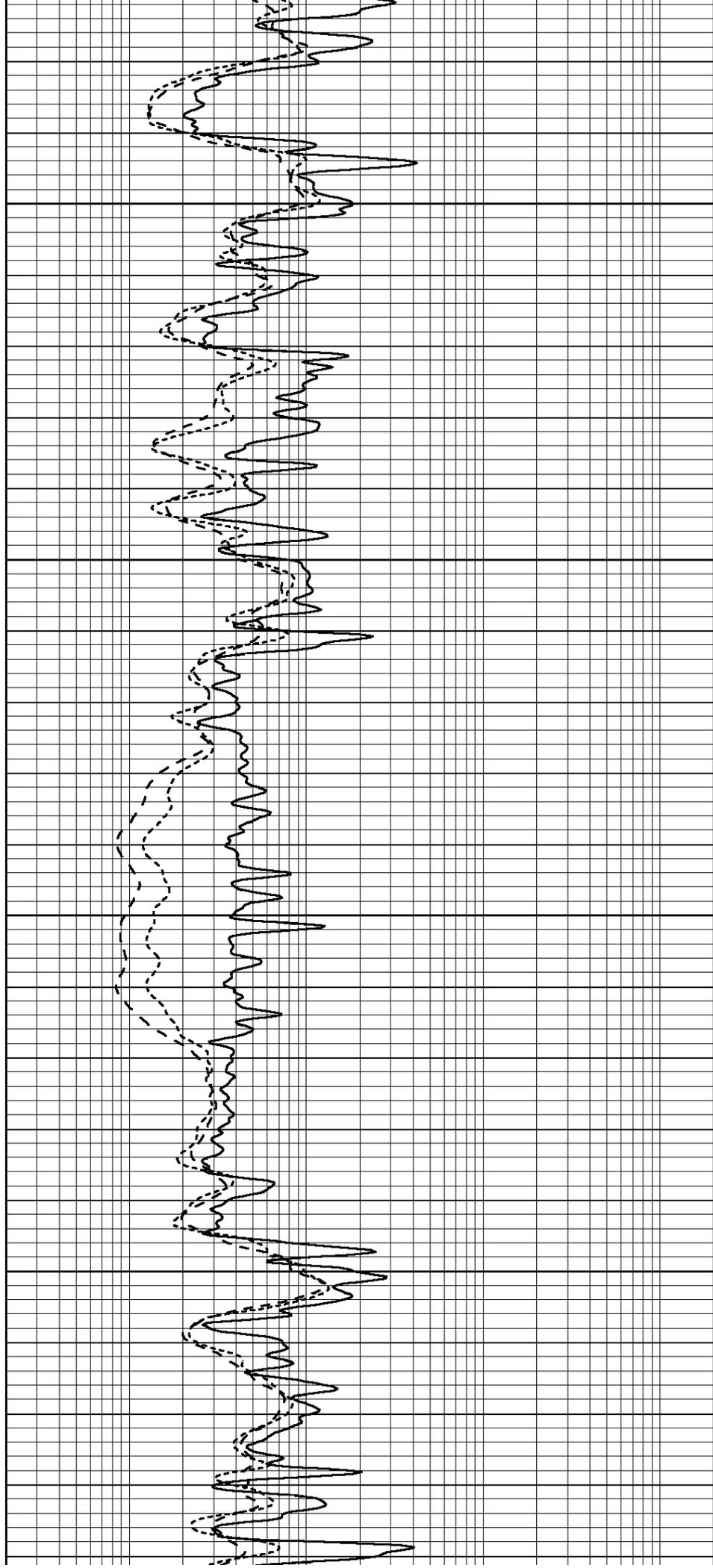


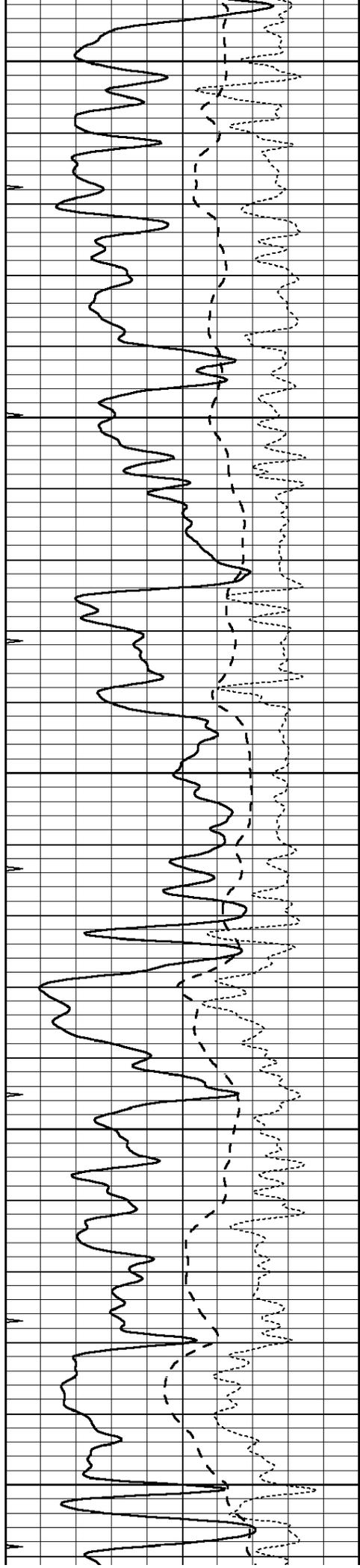
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3300





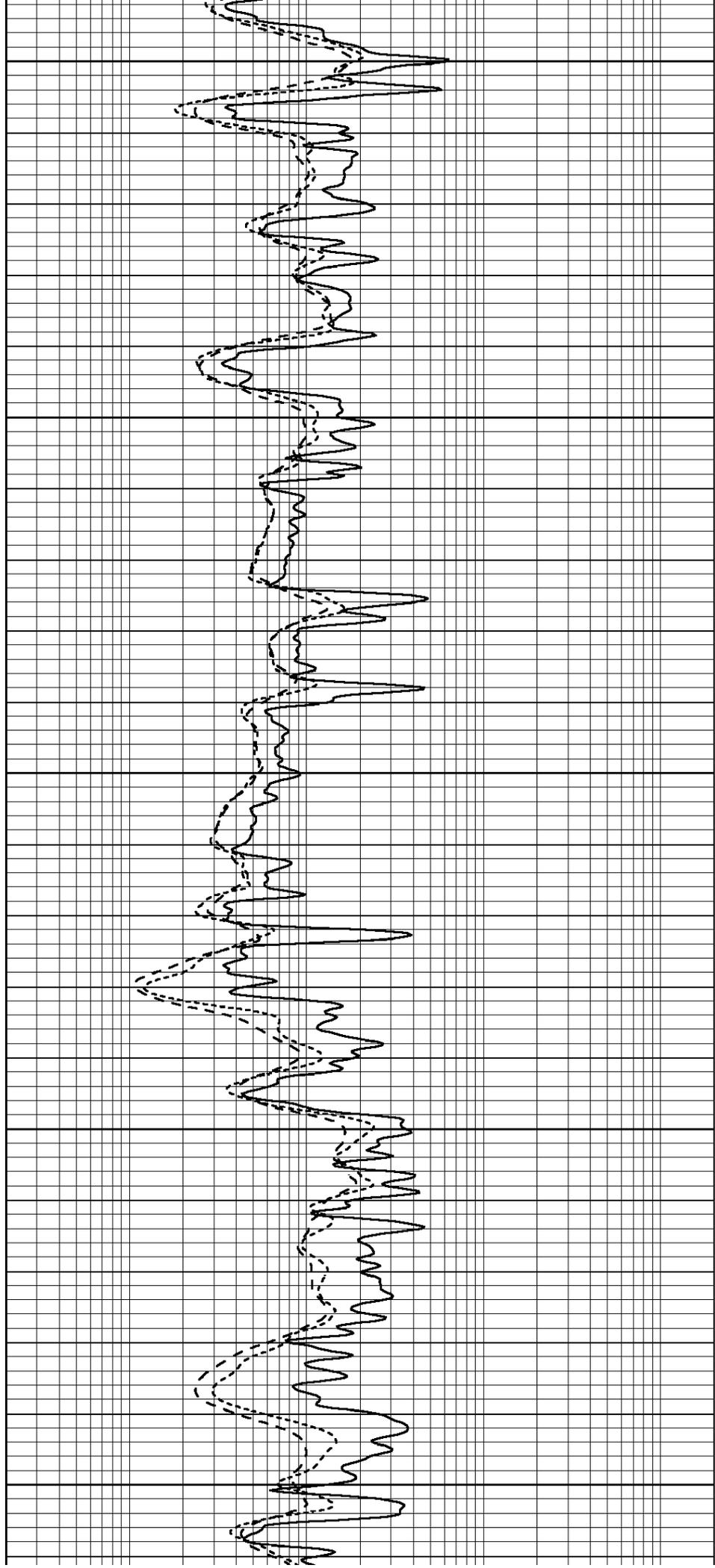
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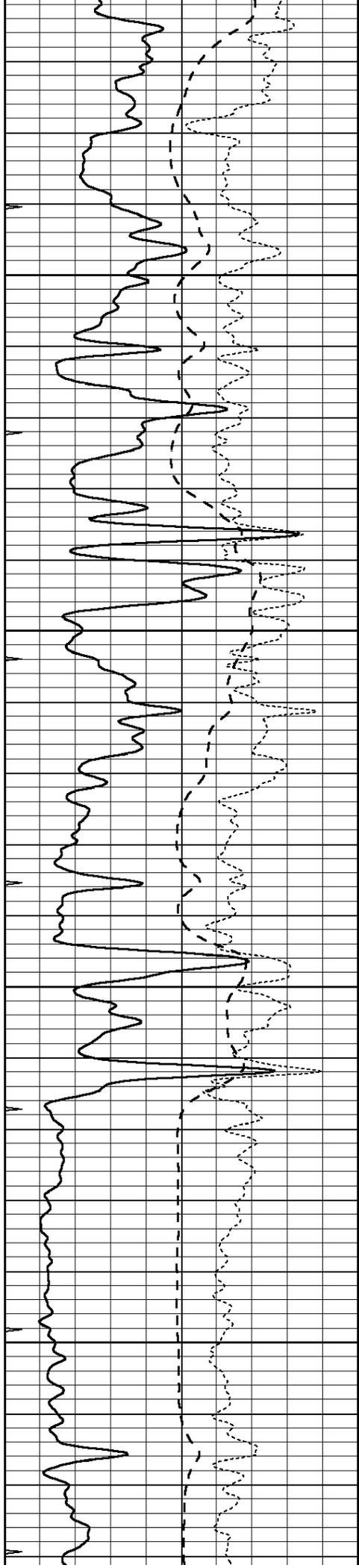
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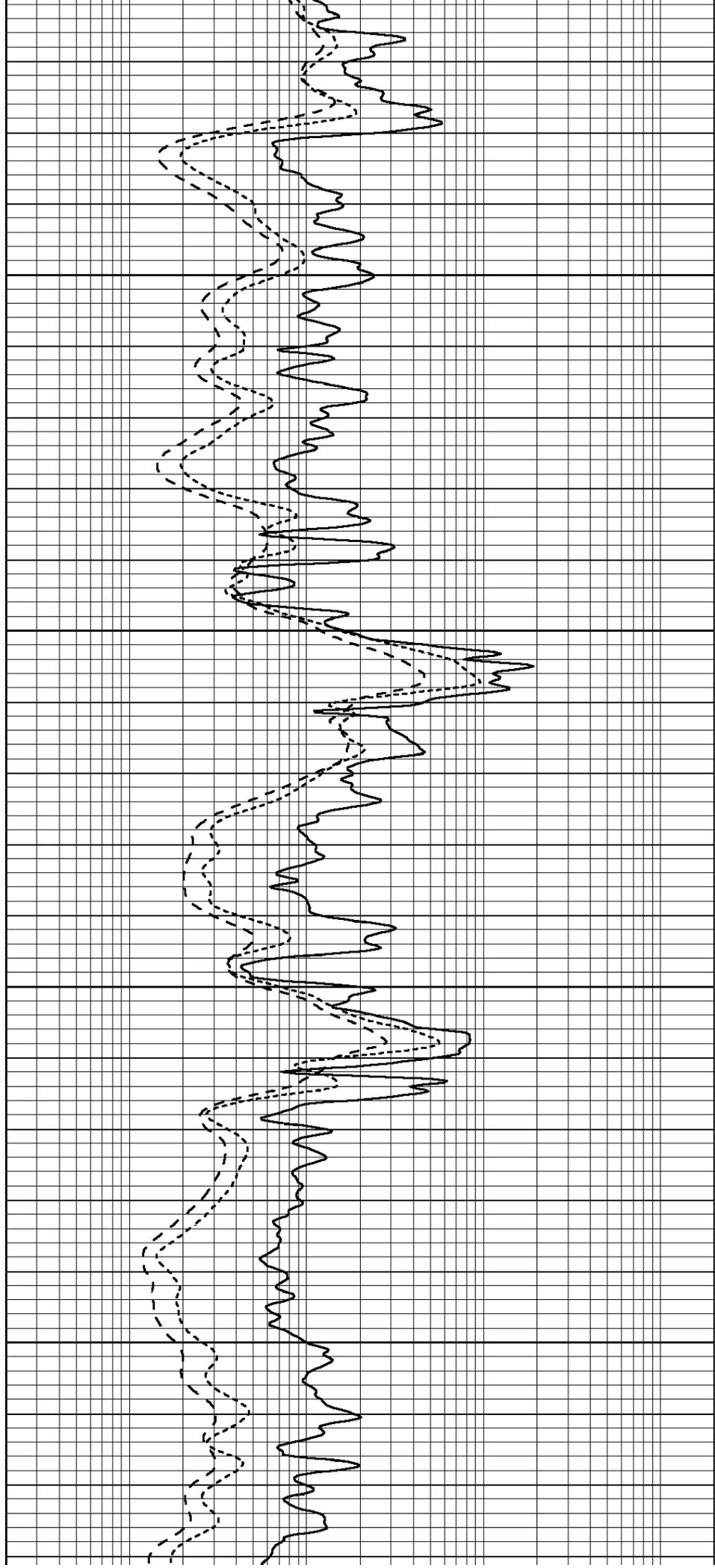


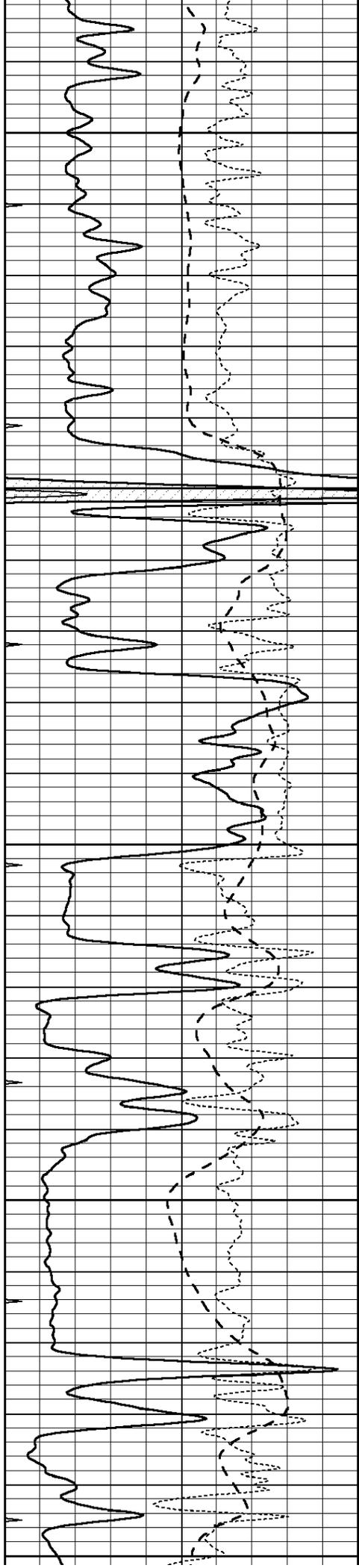
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3700

3750





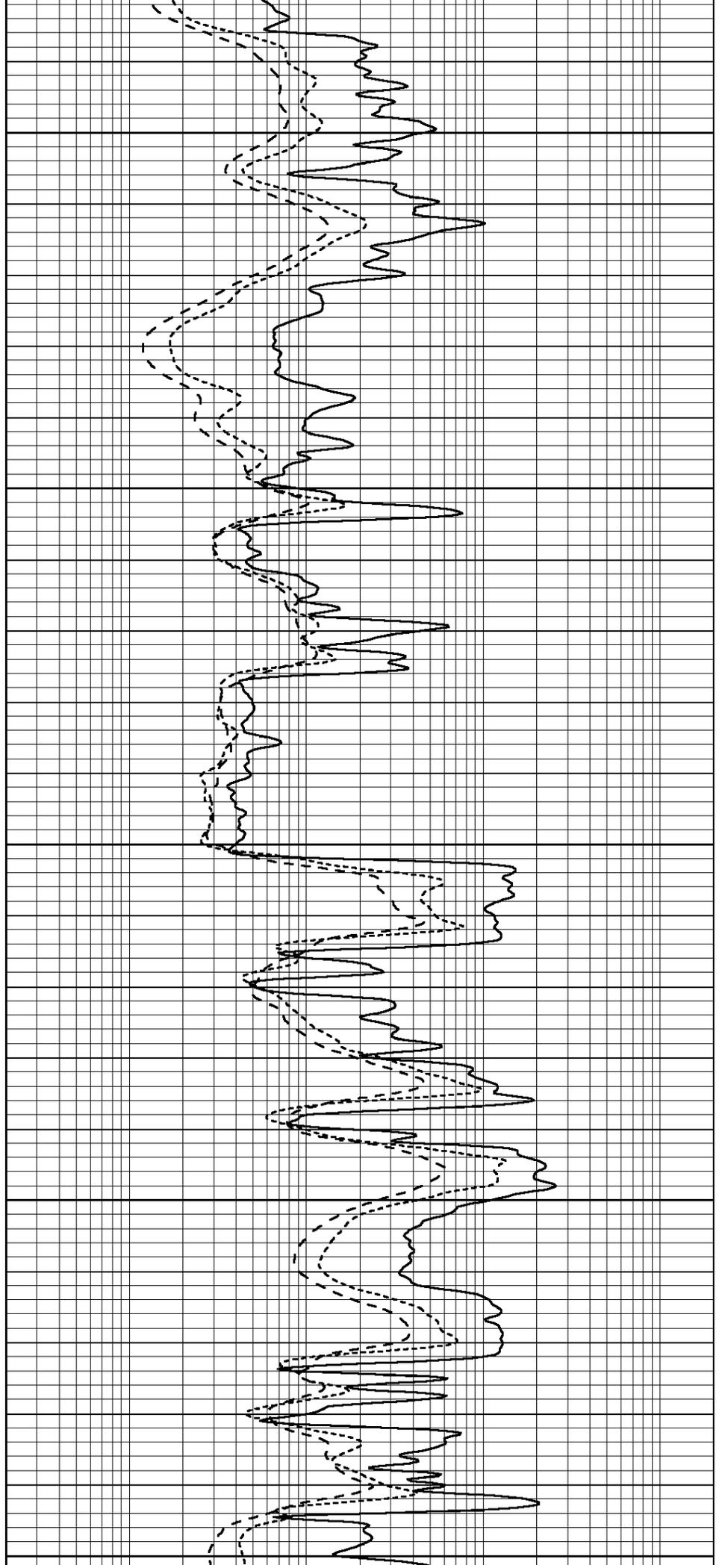
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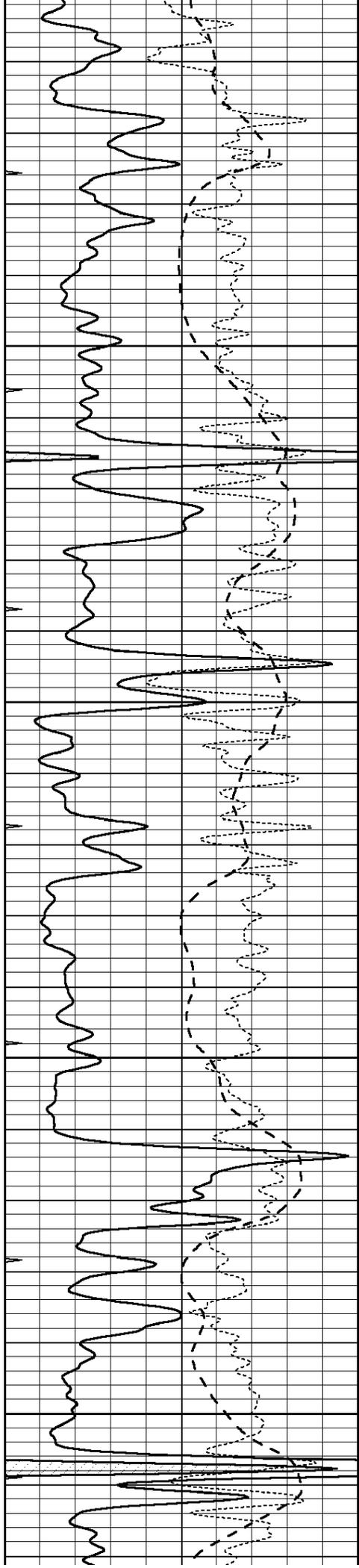
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3950

4000



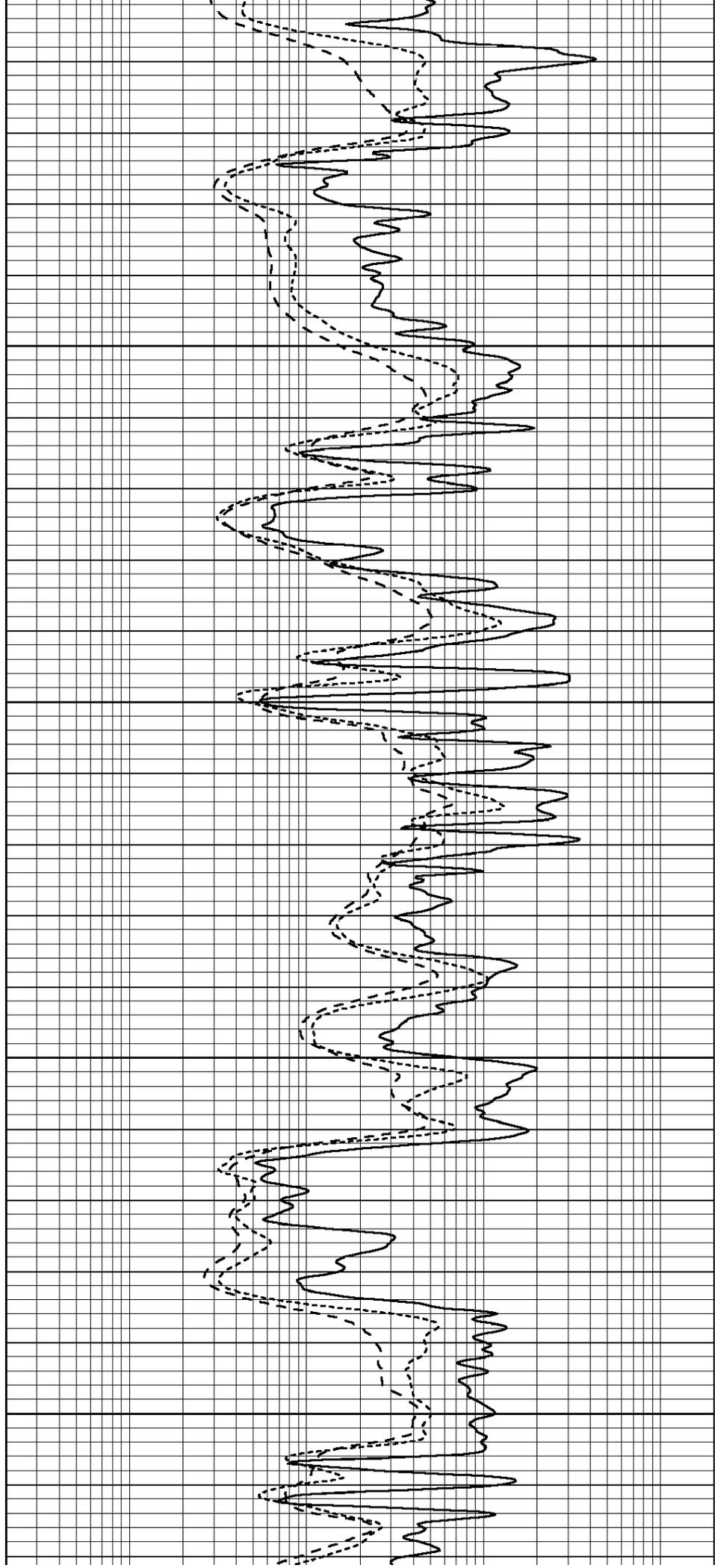


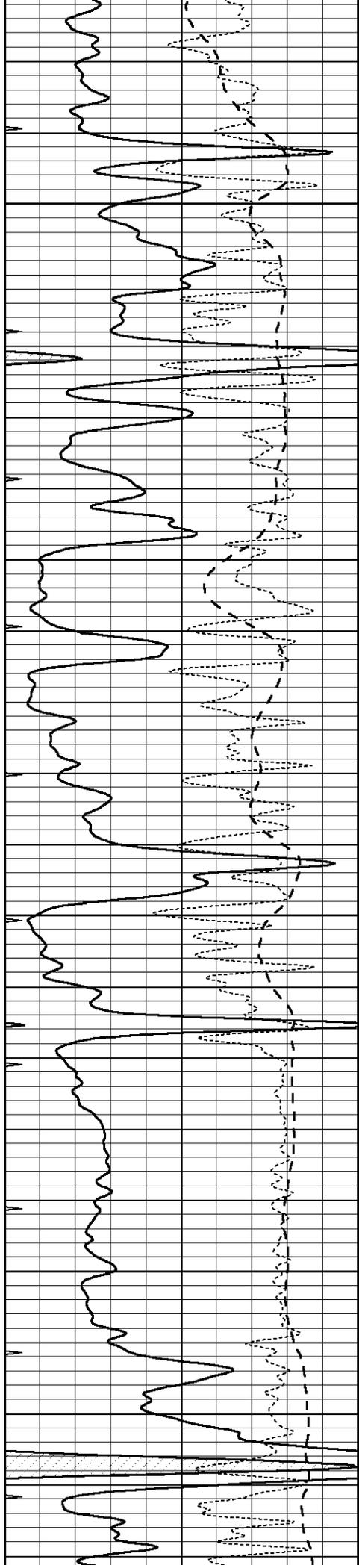
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4150

4200



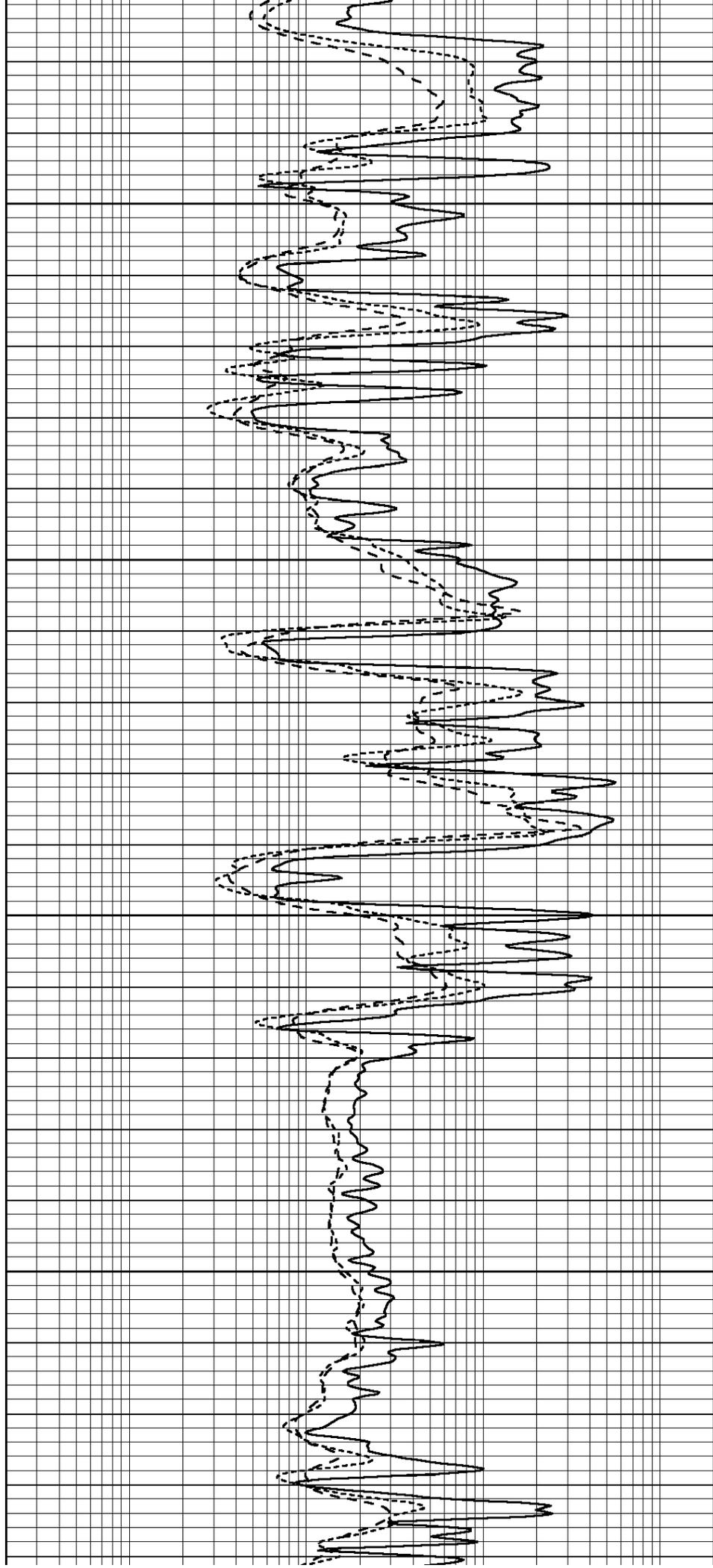


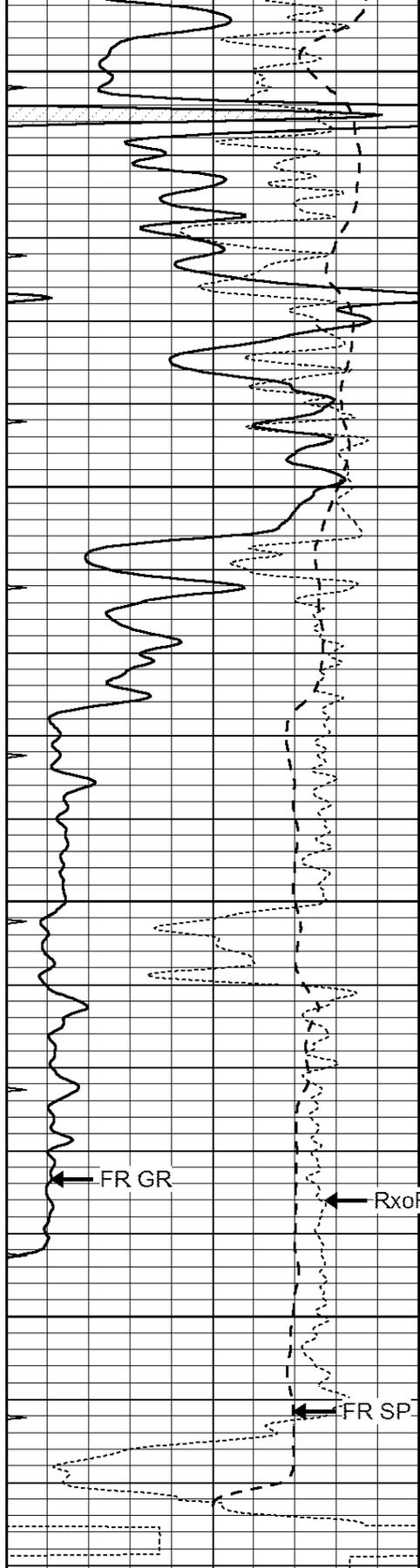
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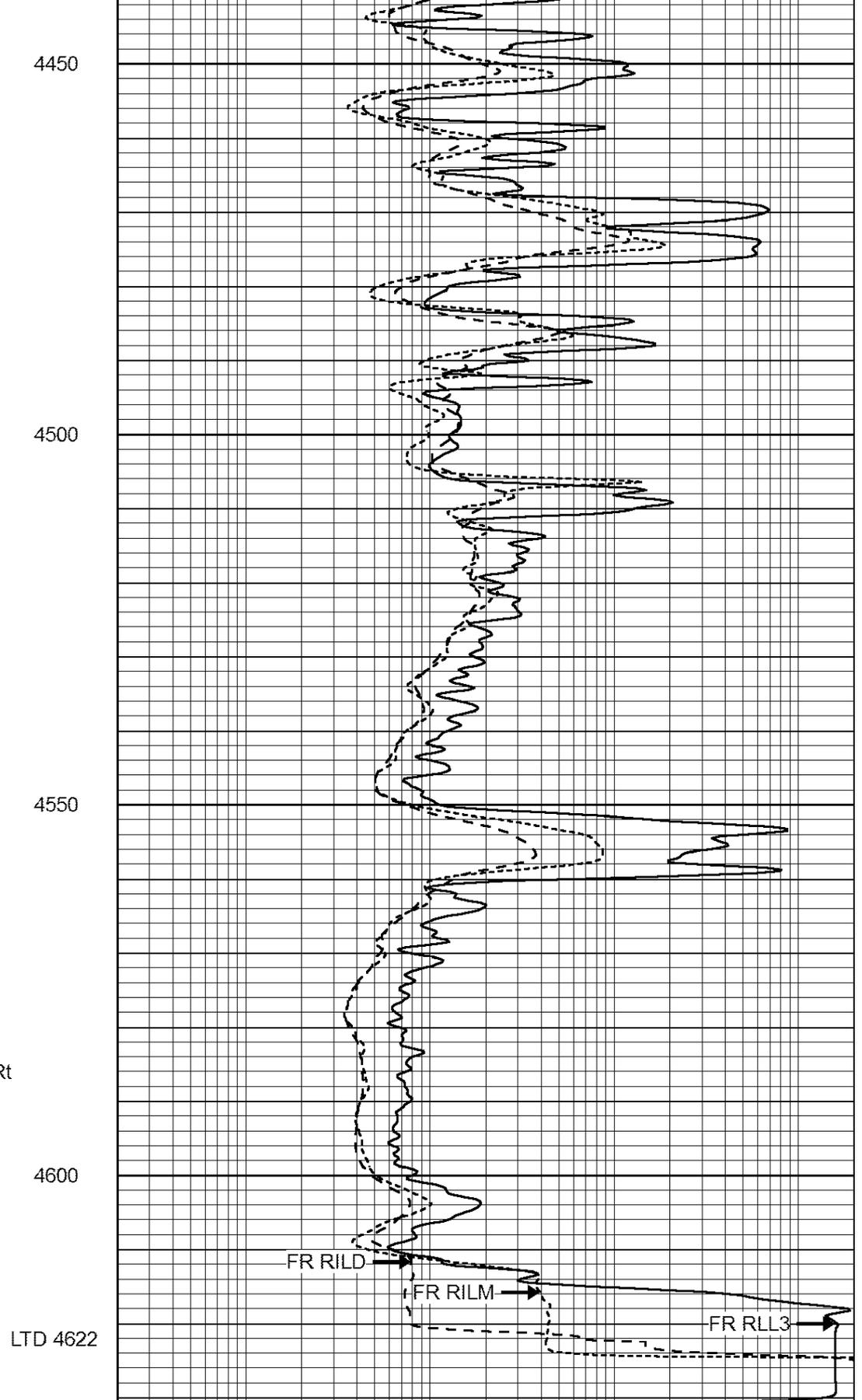
4400





LTD 4622

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



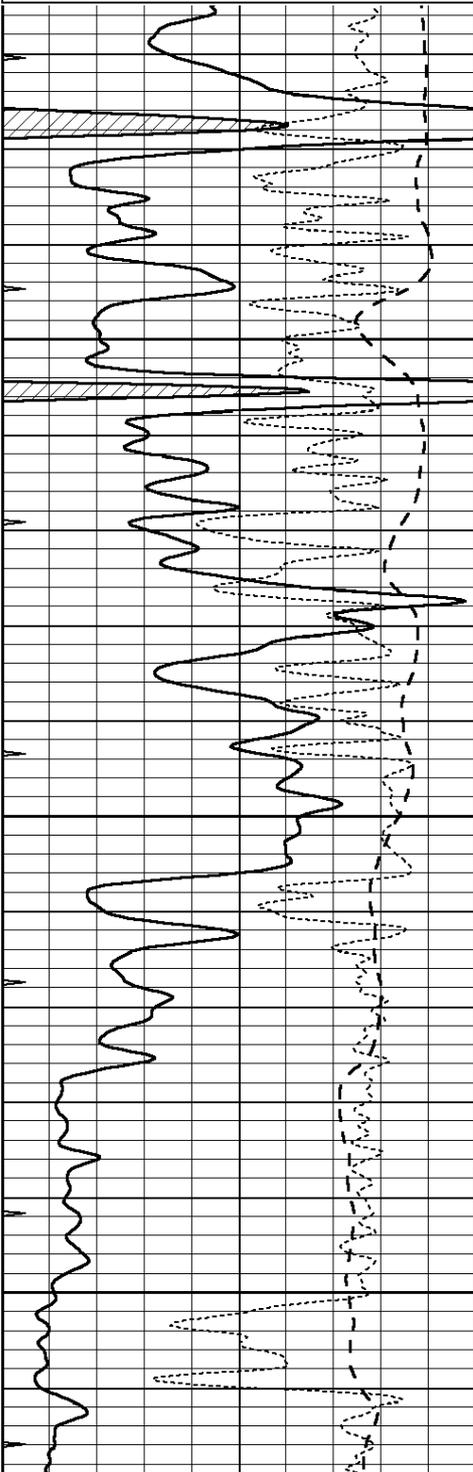
SUPERIOR
Hays,
Kansas

REPEAT SECTION

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 Presentation Format: dil
 Dataset Creation: Mon Nov 14 15:04:23 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

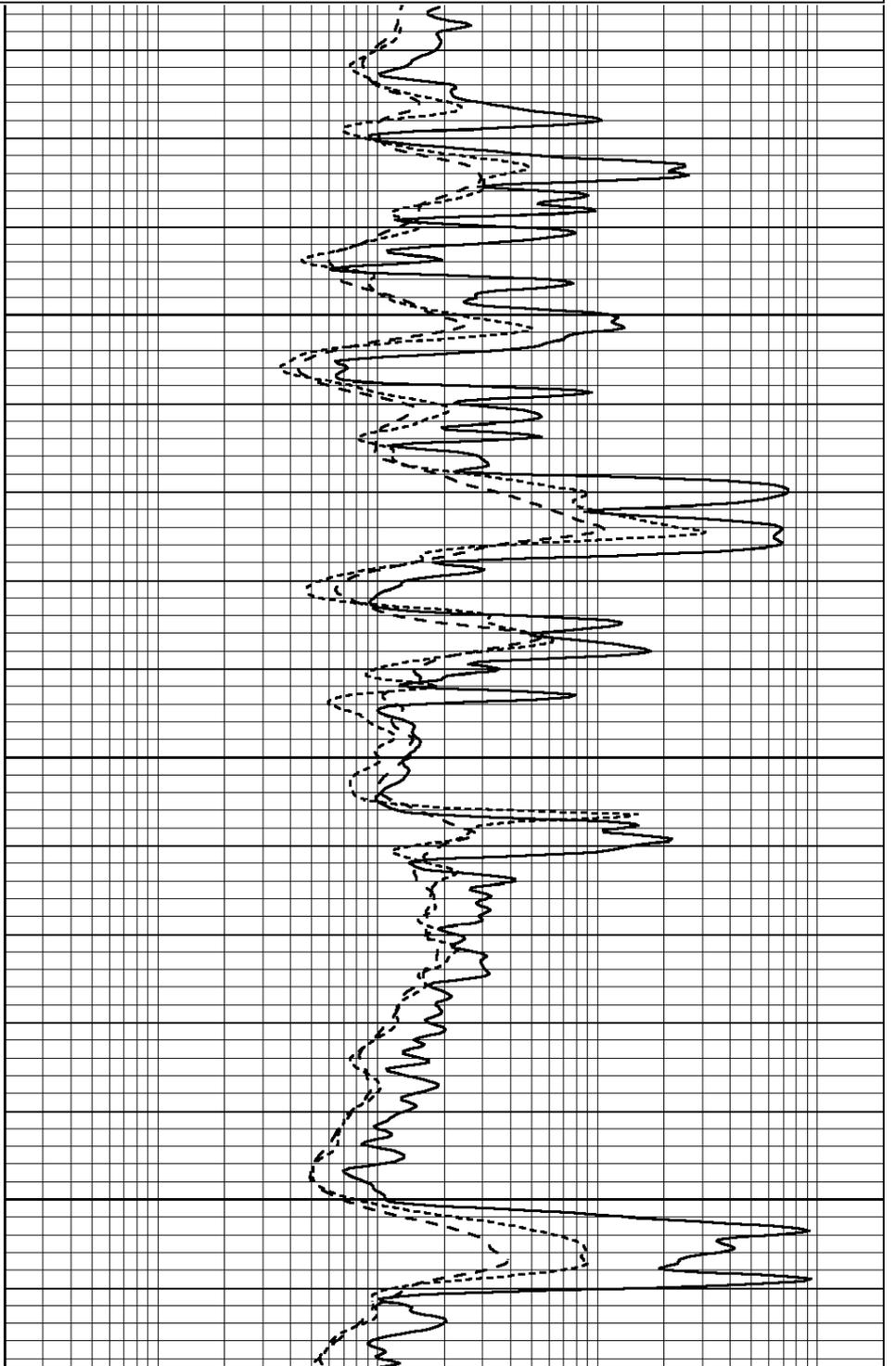
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

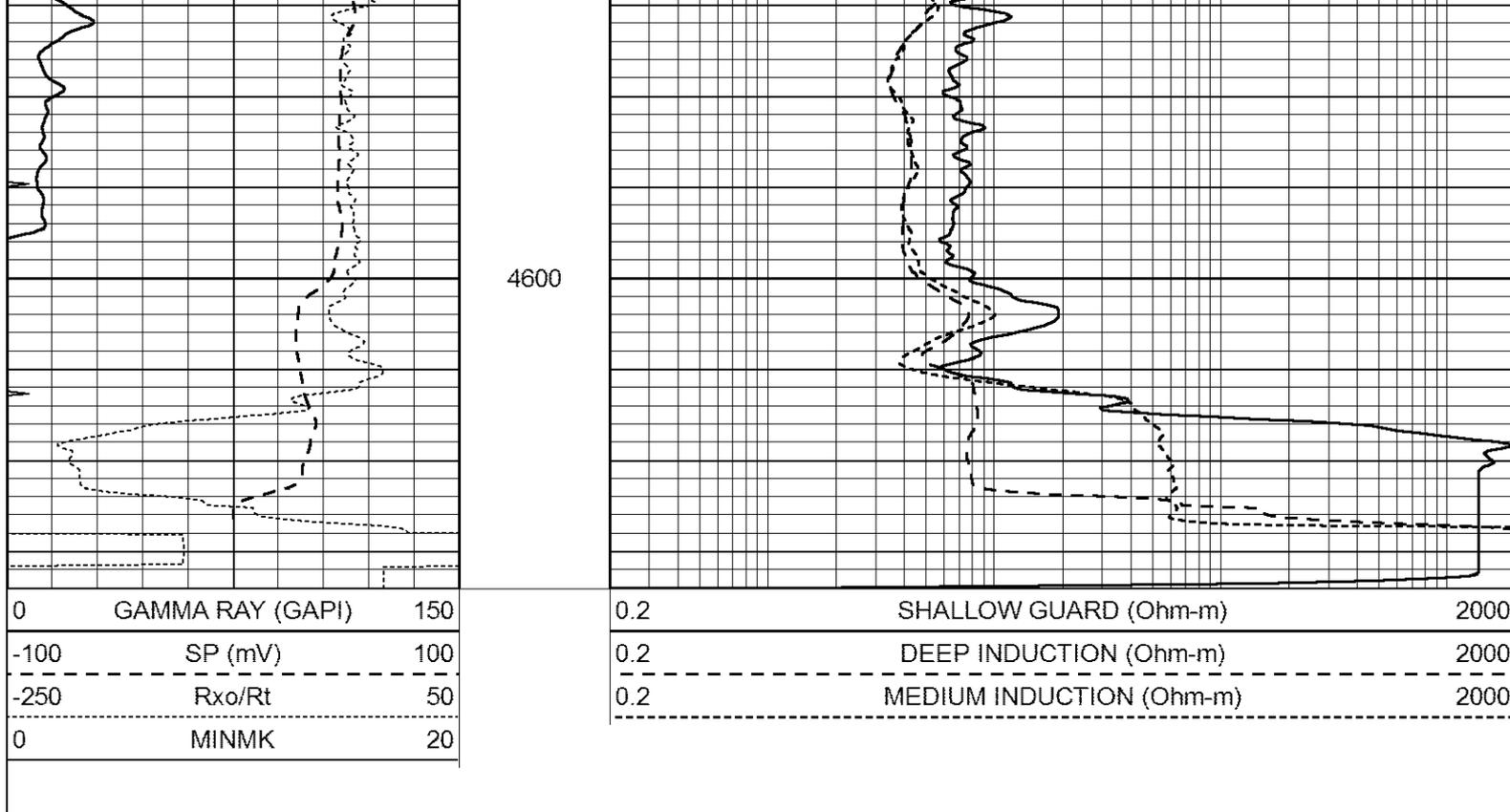


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4550





Calibration Report

Database File: 007829pe.db
 Dataset Pathname: pass3.2.3
 Dataset Creation: Mon Nov 14 17:51:37 2011 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Sat Nov 12 14:01:01 2011

Loop:	Readings				References		Results	
	Air	Loop			Air	Loop	m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	8.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-6.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

Litho Density Calibration Report

Serial: 003N Model: PRB
 Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper				
Low Ref	Readings	Reference		
High Ref	2.0	8.0		
	4.0	15.0		
	Gain: 2.0		Offset: 3.5	

Compensated Neutron Calibration Report

Serial Number:	070808
Tool Model:	Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Sat Nov 12 12:16:50 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3000	GAPI/cps