



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company	TRANS PACIFIC OIL CORPORATION		
Well	SANDER "B" #1-4		
Field	WILDCAT		
County	ROOKS	State	KANSAS
Location:	AP1 # : 15-163-24276-0000 1359' FNL & 110' FEL		Other Services CDL/CNL MEL
Permanent Datum Log Measured From Drilling Measured From	SEC 4 TWP 7S RGE 18W	GROUND LEVEL Elevation KELLY BUSHING 5' A.G.L. KELLY BUSHING	1948 K.B. 1953 D.F. 1951 G.L. 1948
Date	12/8/14		
Run Number	ONE		
Depth Driller	3600		
Depth Logger	3600		
Bottom Logged Interval	3576		
Top Log Interval	0		
Casing Driller	8 5/8" @ 220		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4200 PPM	
Density / Viscosity	9.1/54		
pH / Fluid Loss	10.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.0 @ 55F		
Rmt @ Meas. Temp	.75 @ 55F		
Rmc @ Meas. Temp	1.20 @ 55F		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.49 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	112F		
Equipment Number	4010		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	ALEX CHAPIN		

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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

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
STOCKTON, KS. - 2 WEST TO RD. 16 - 2 1/2 NORTH - WEST INTO



NABORS
COMPLETION
& PRODUCTION

HIGH RESOLUTION

Database File:

26414pe.db

Dataset Pathname:

pass3.1

Presentation Format:

_dil

Dataset Creation:

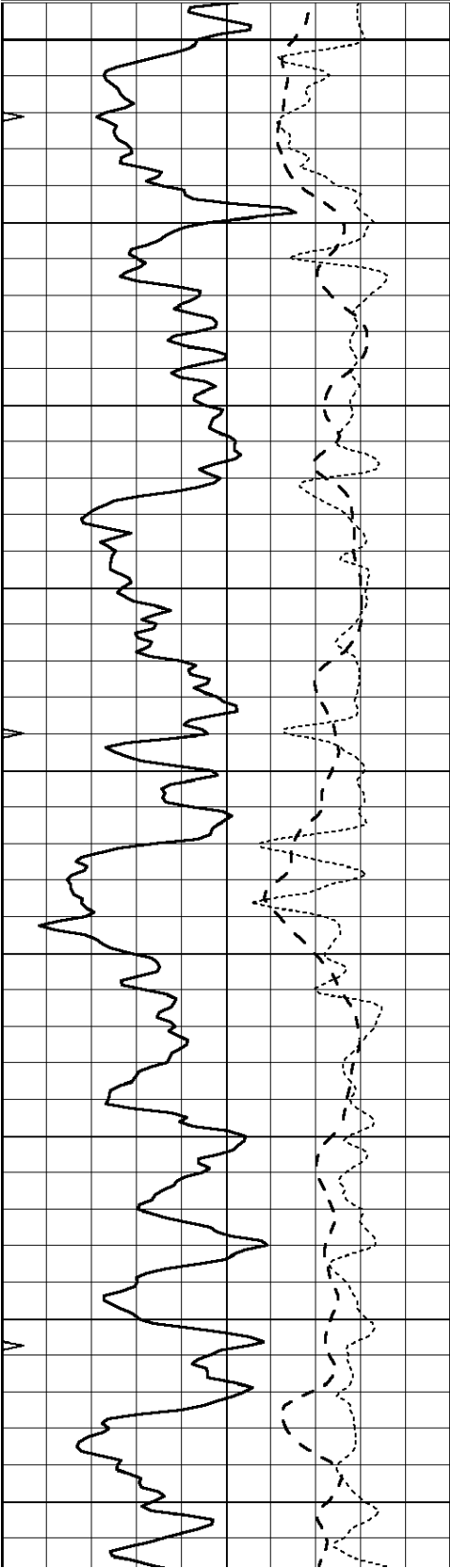
Mon Dec 08 09:28:38 2014 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:120

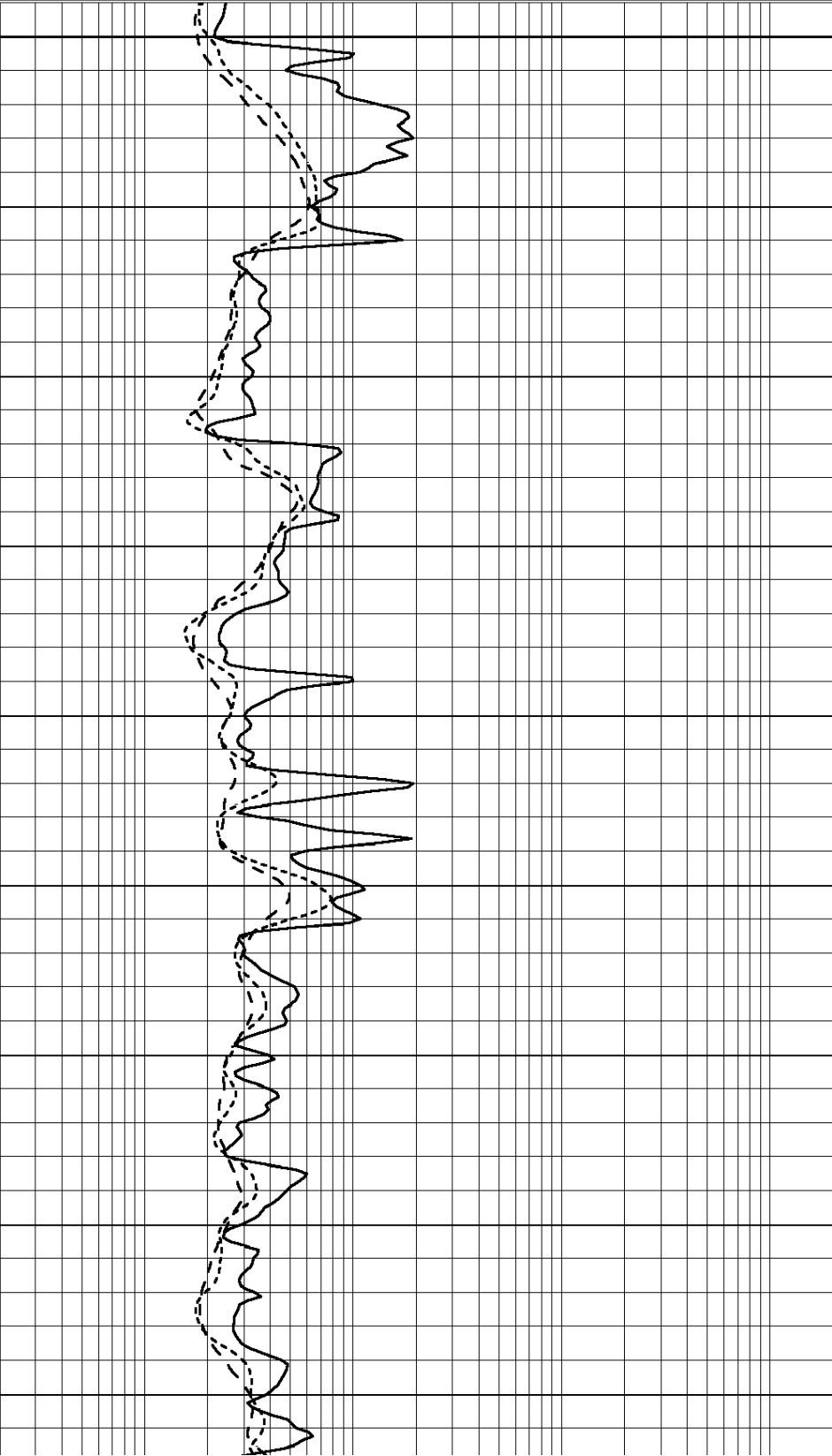
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

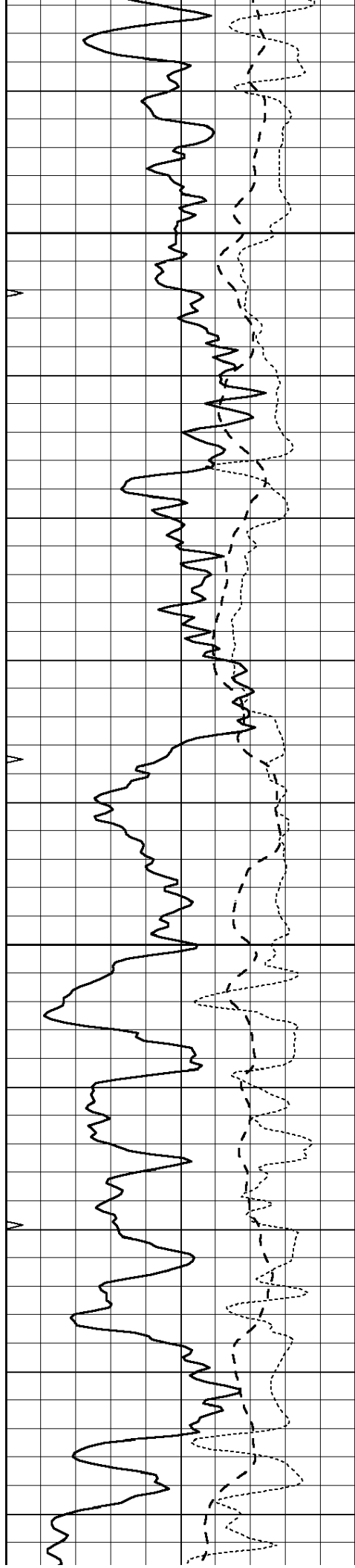
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0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



2600

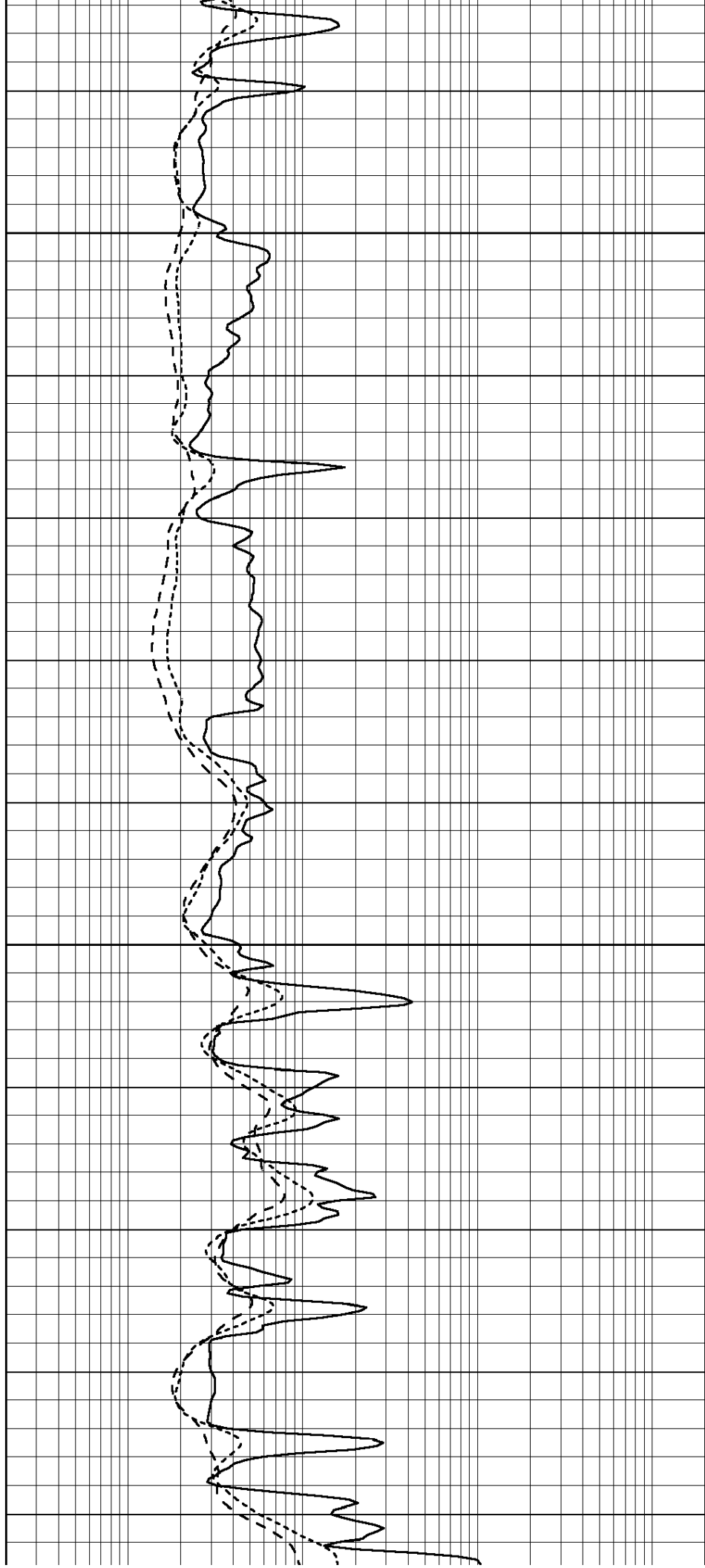
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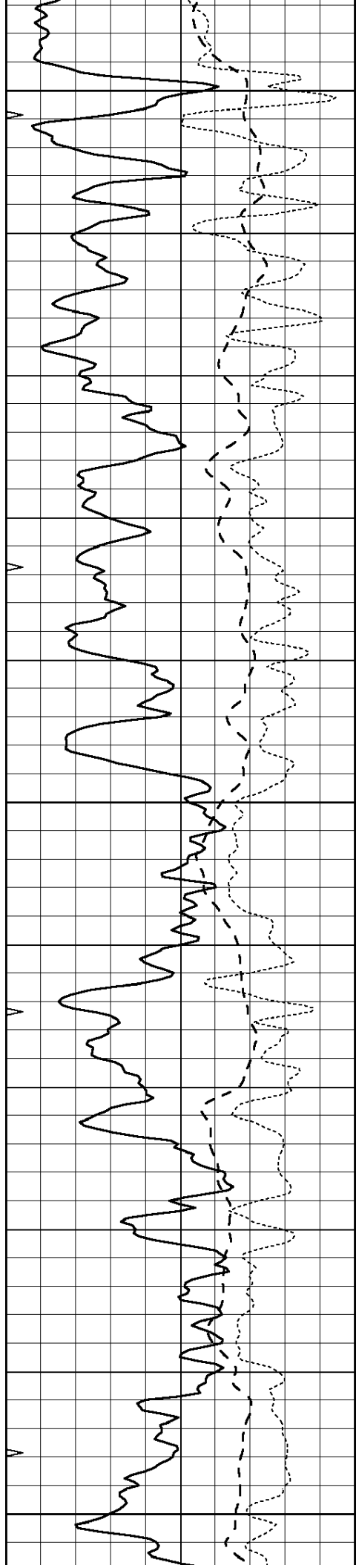




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2750

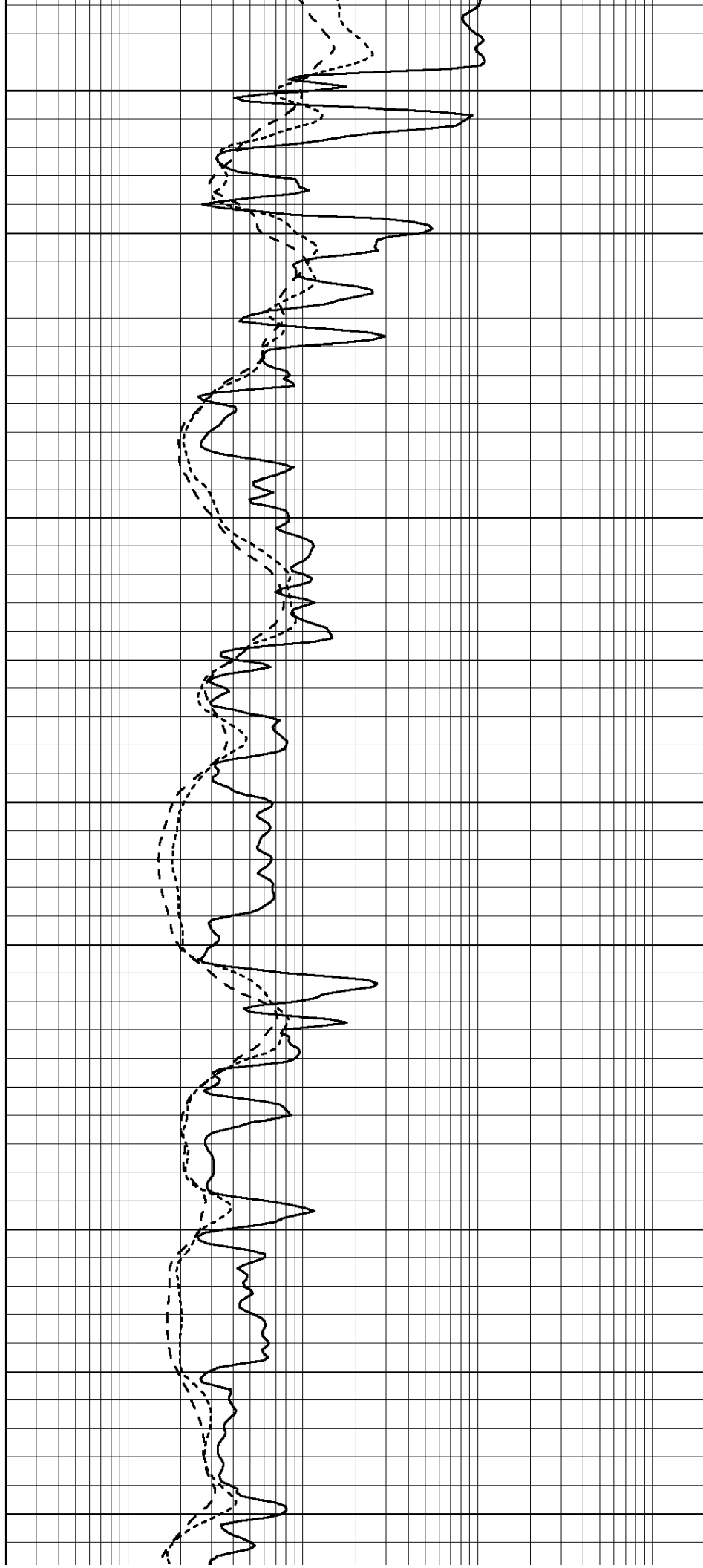


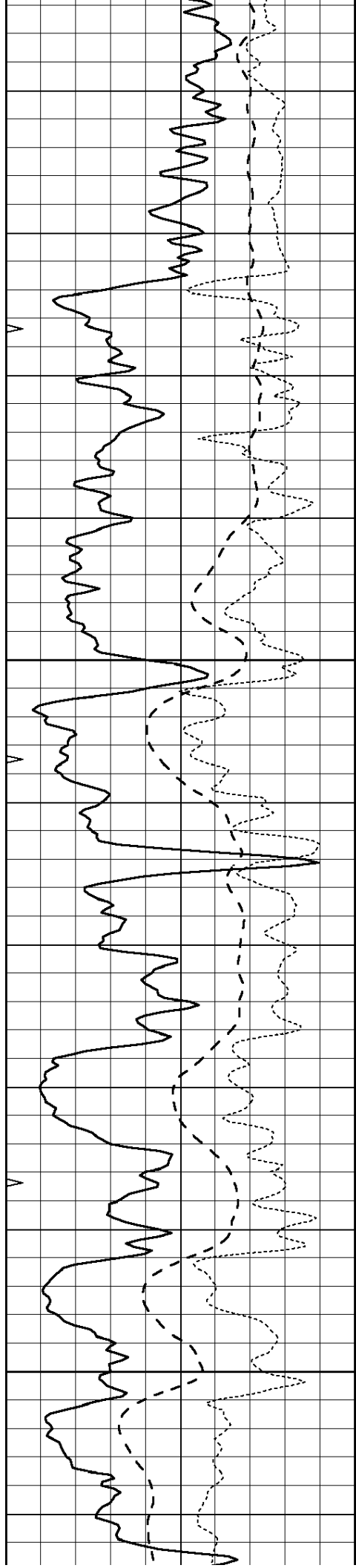


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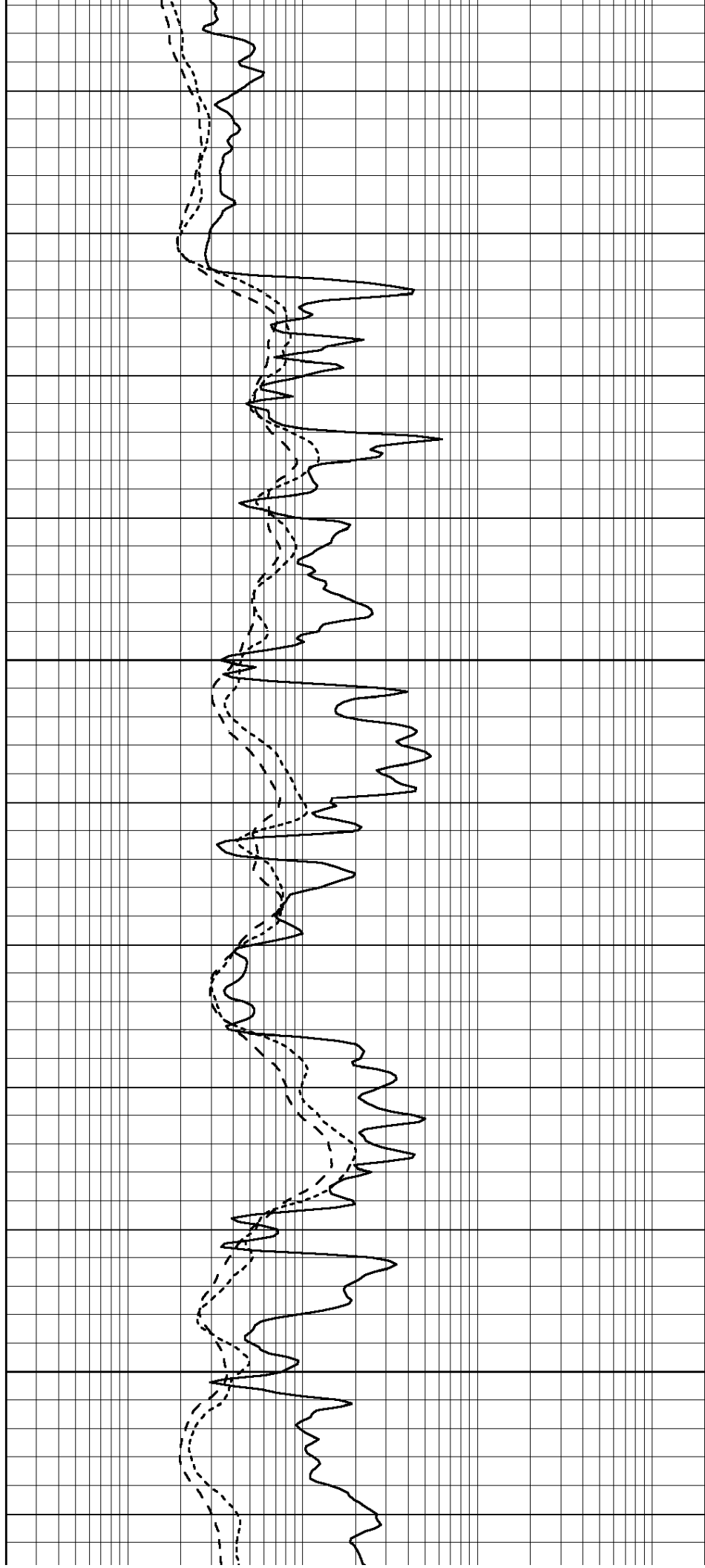
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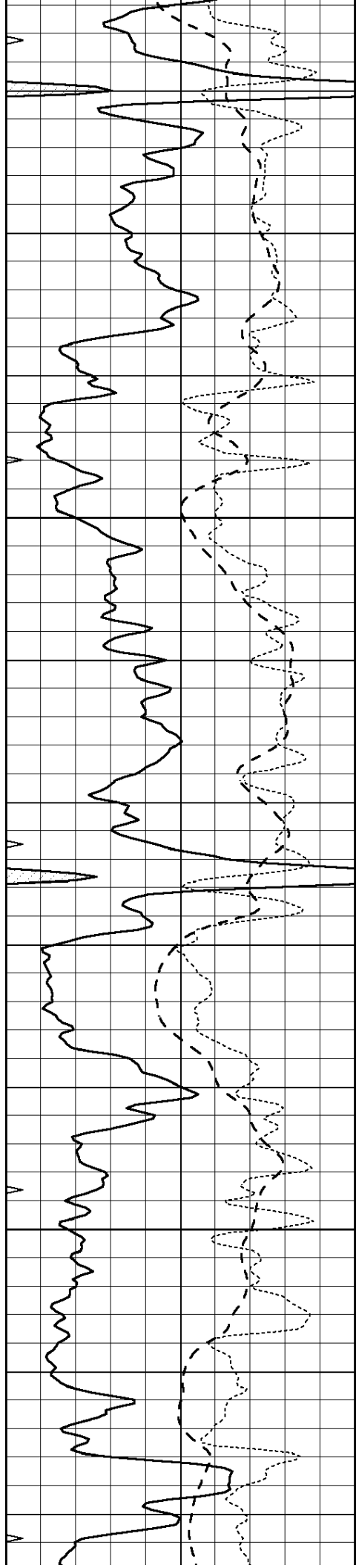




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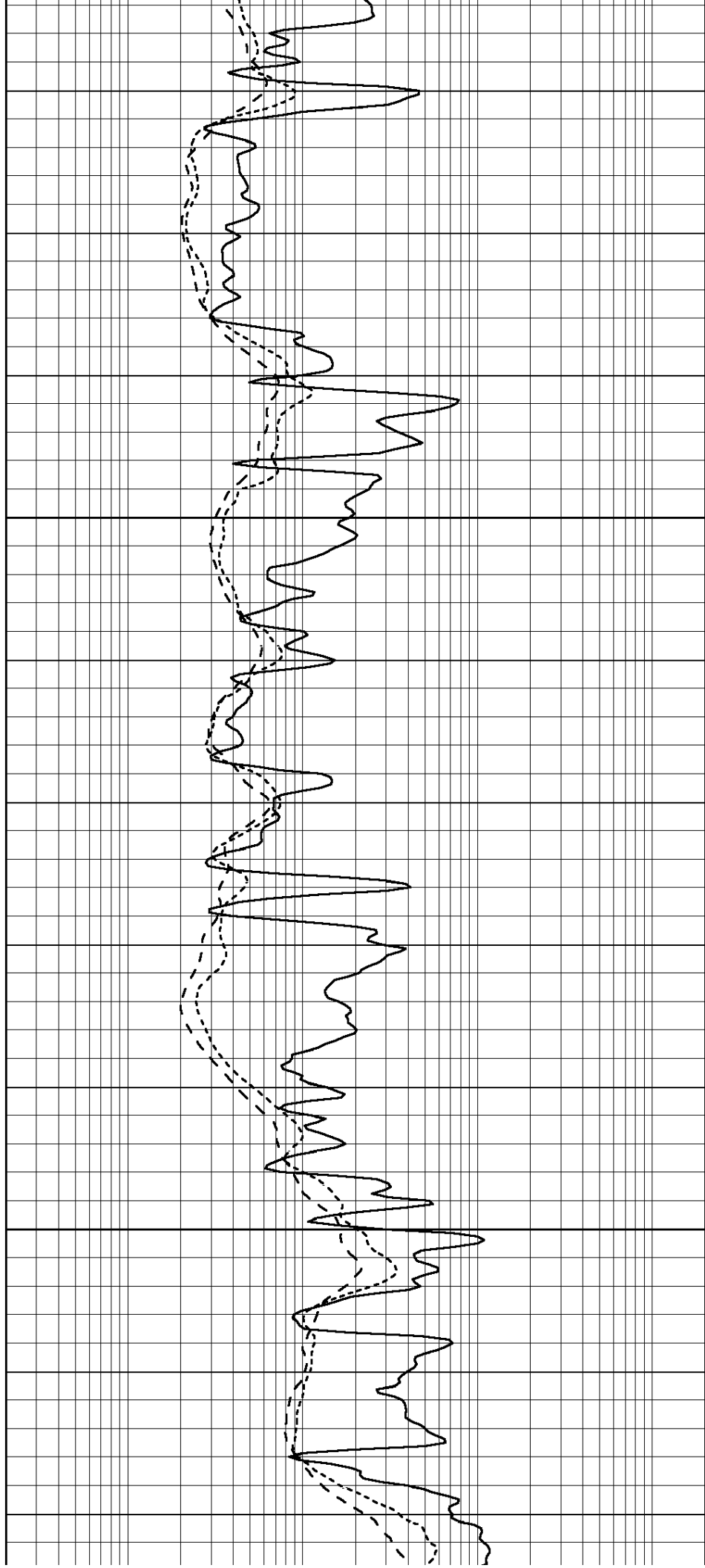
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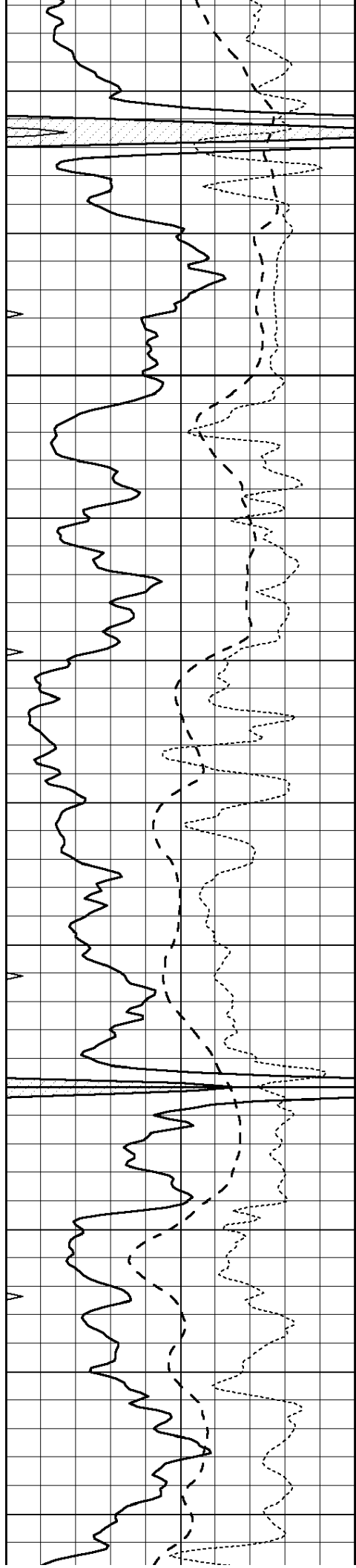




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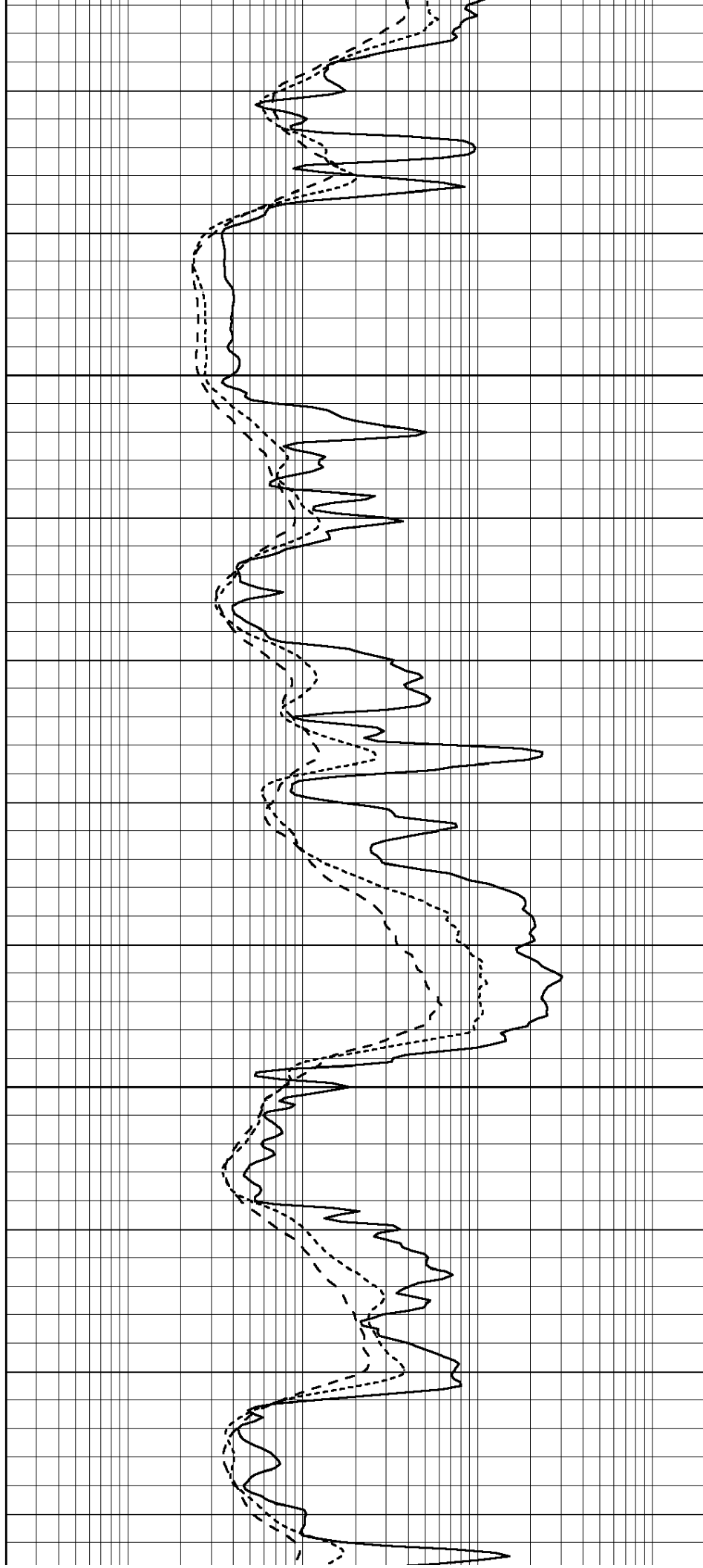
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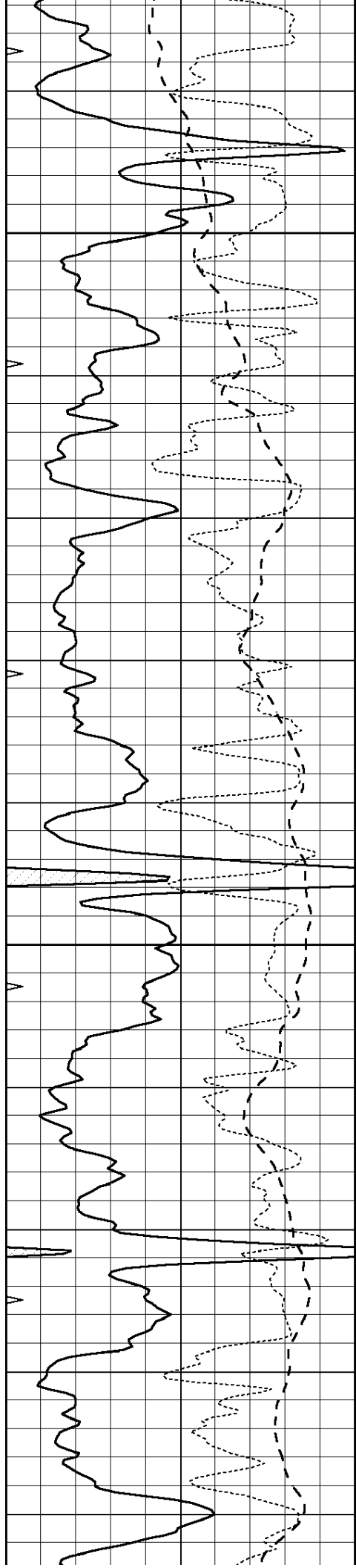




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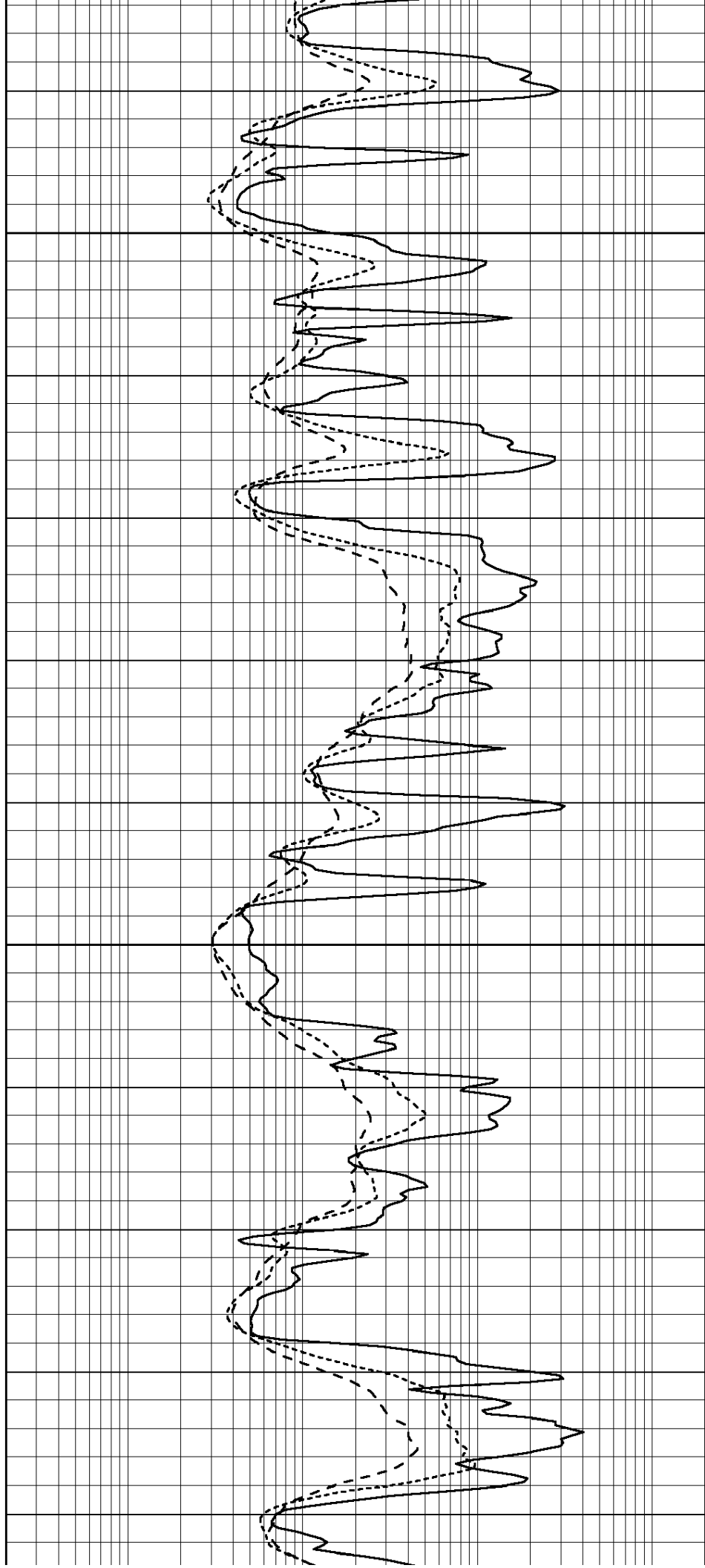
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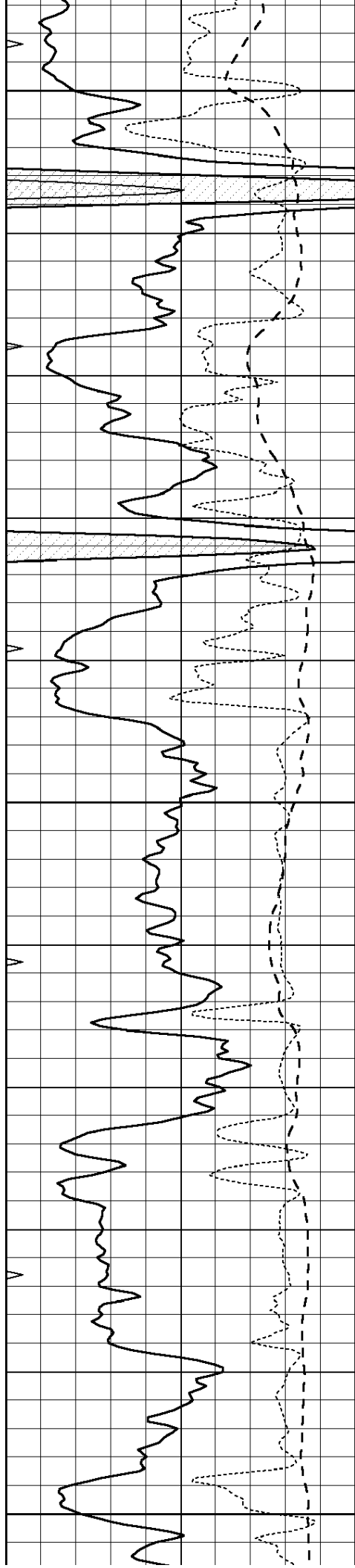




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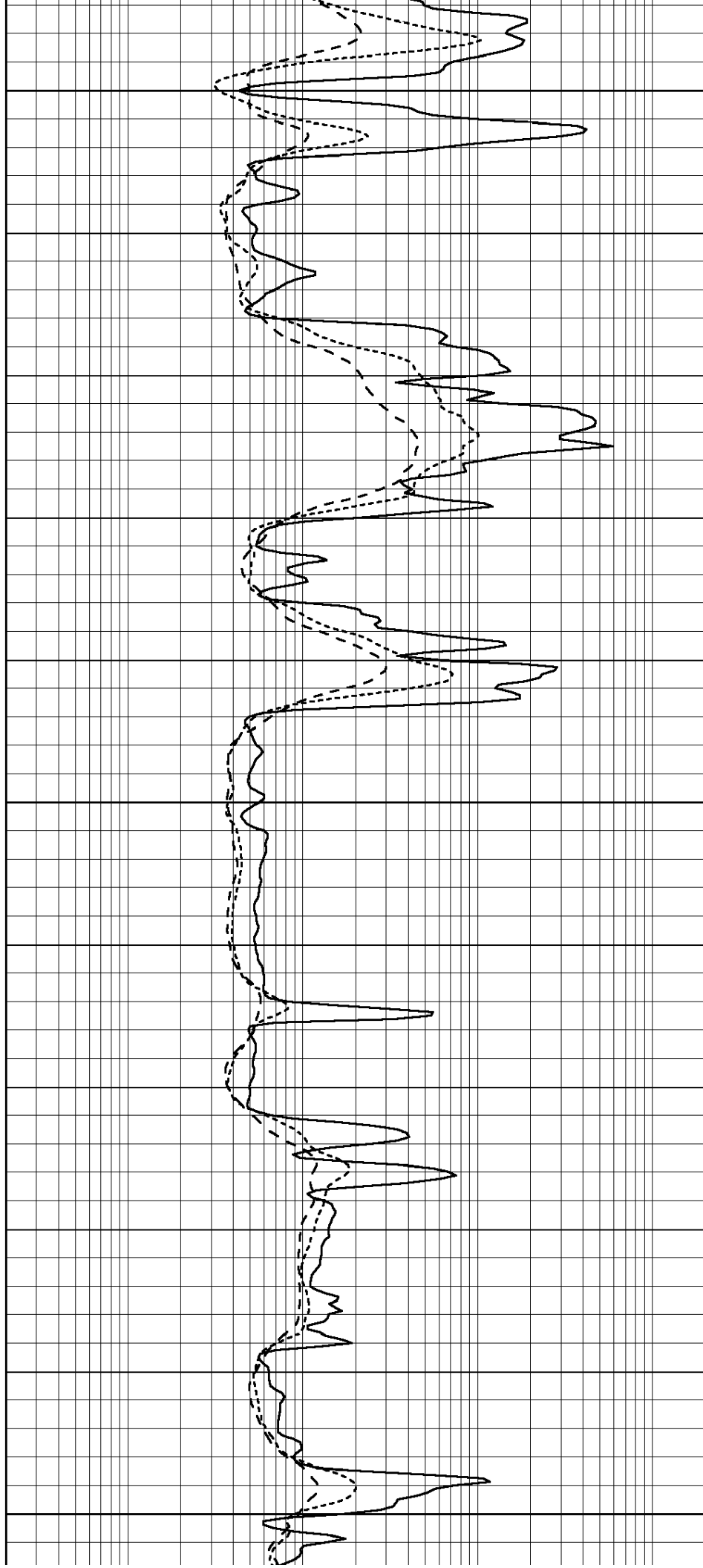


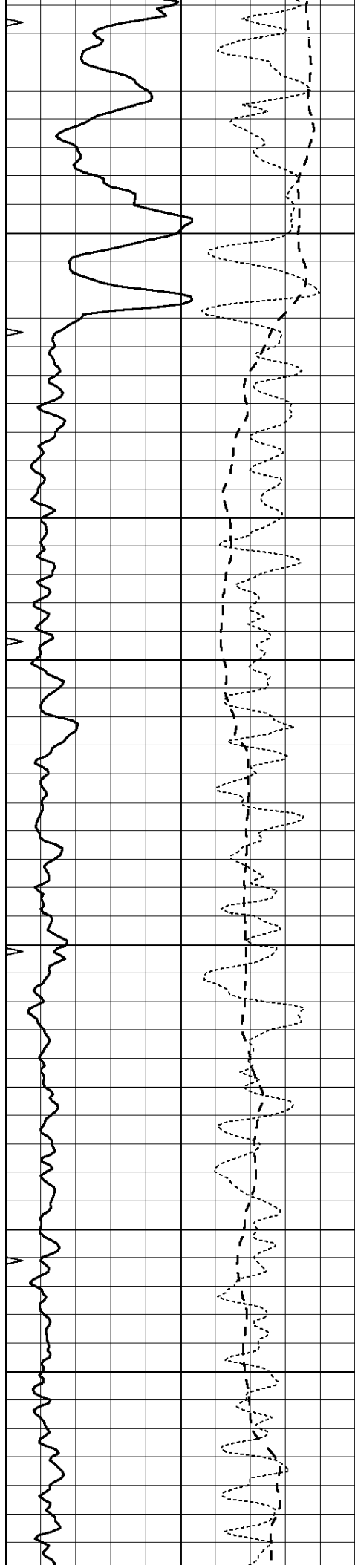


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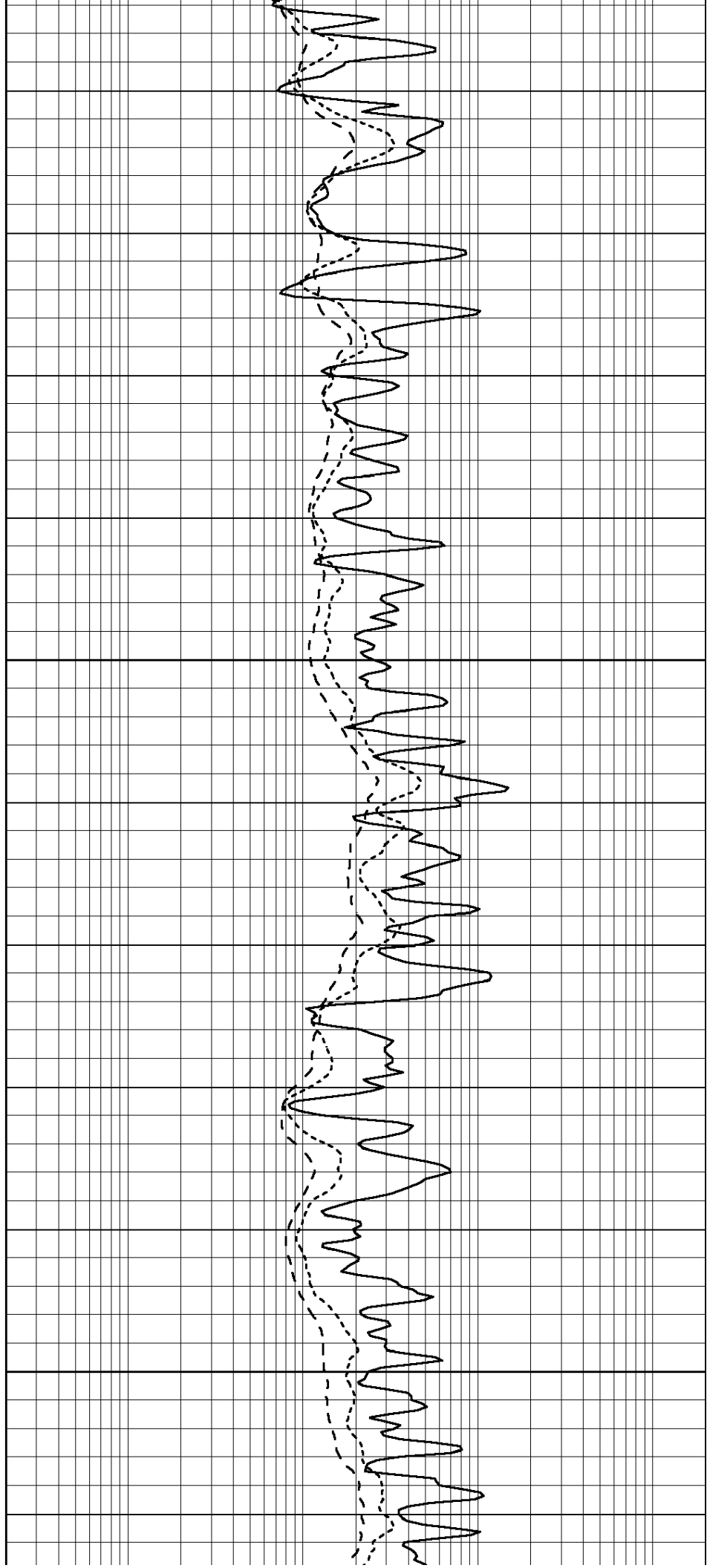
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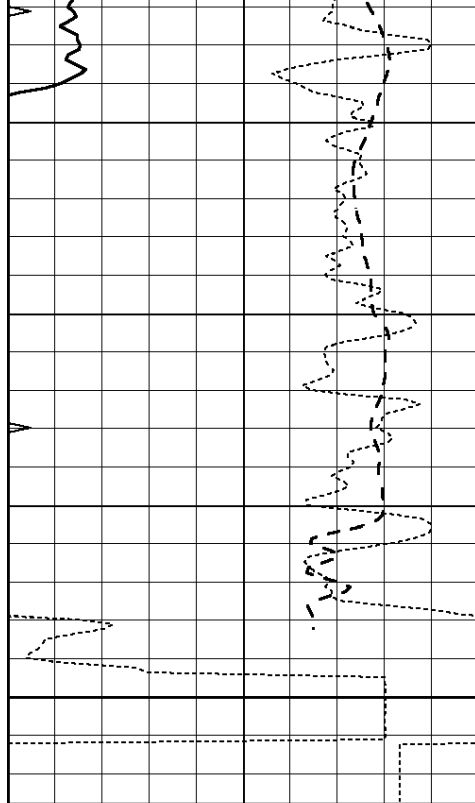




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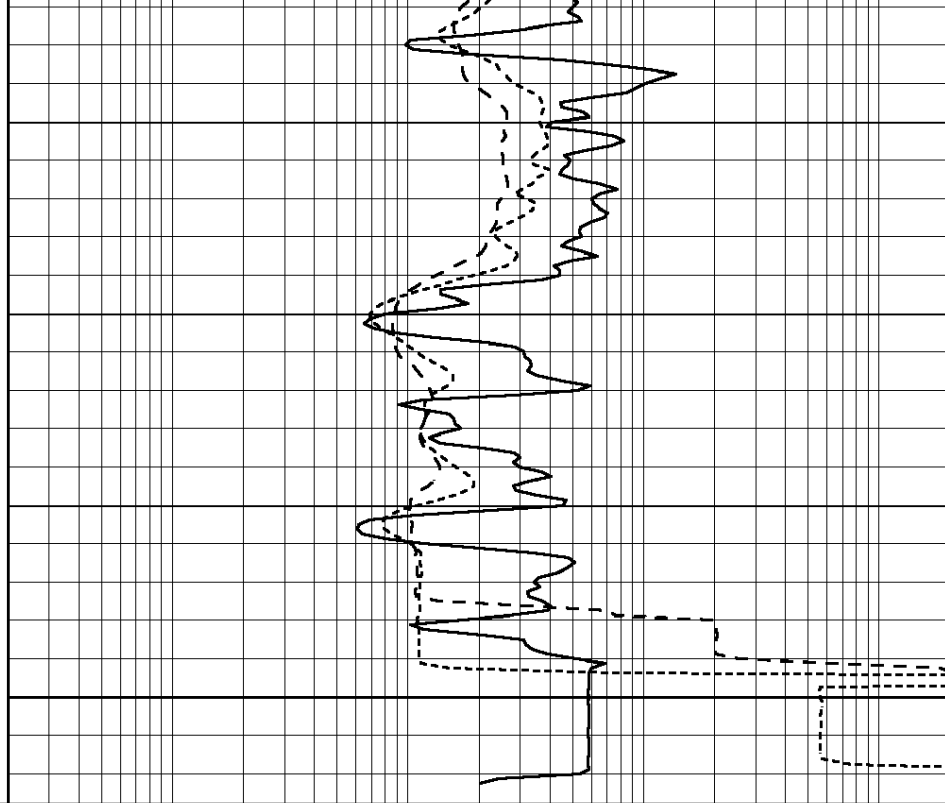
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0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

3600



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

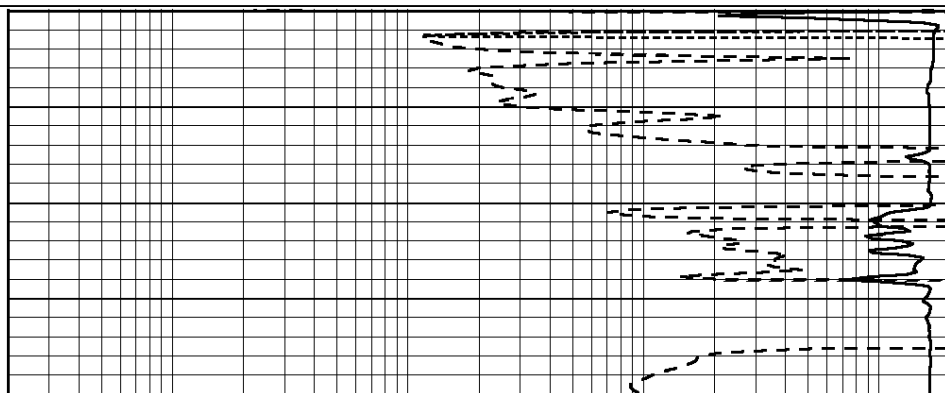
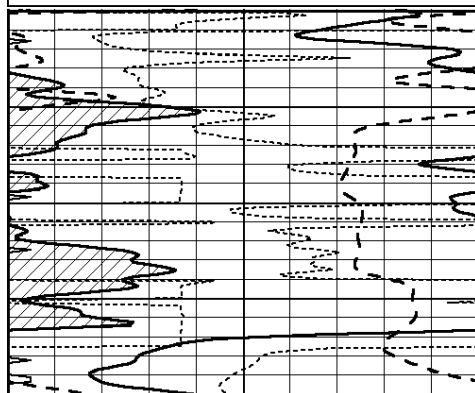


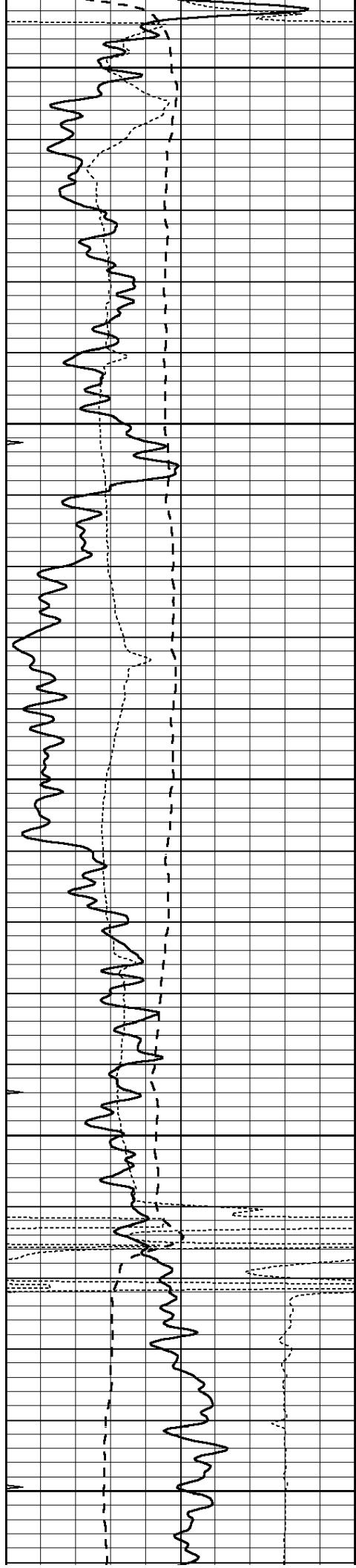
MAIN SECTION

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 Dataset Pathname: pass3.2
 Presentation Format: _dil
 Dataset Creation: Mon Dec 08 09:30:13 2014 by Calc Open-Cased 090629
 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





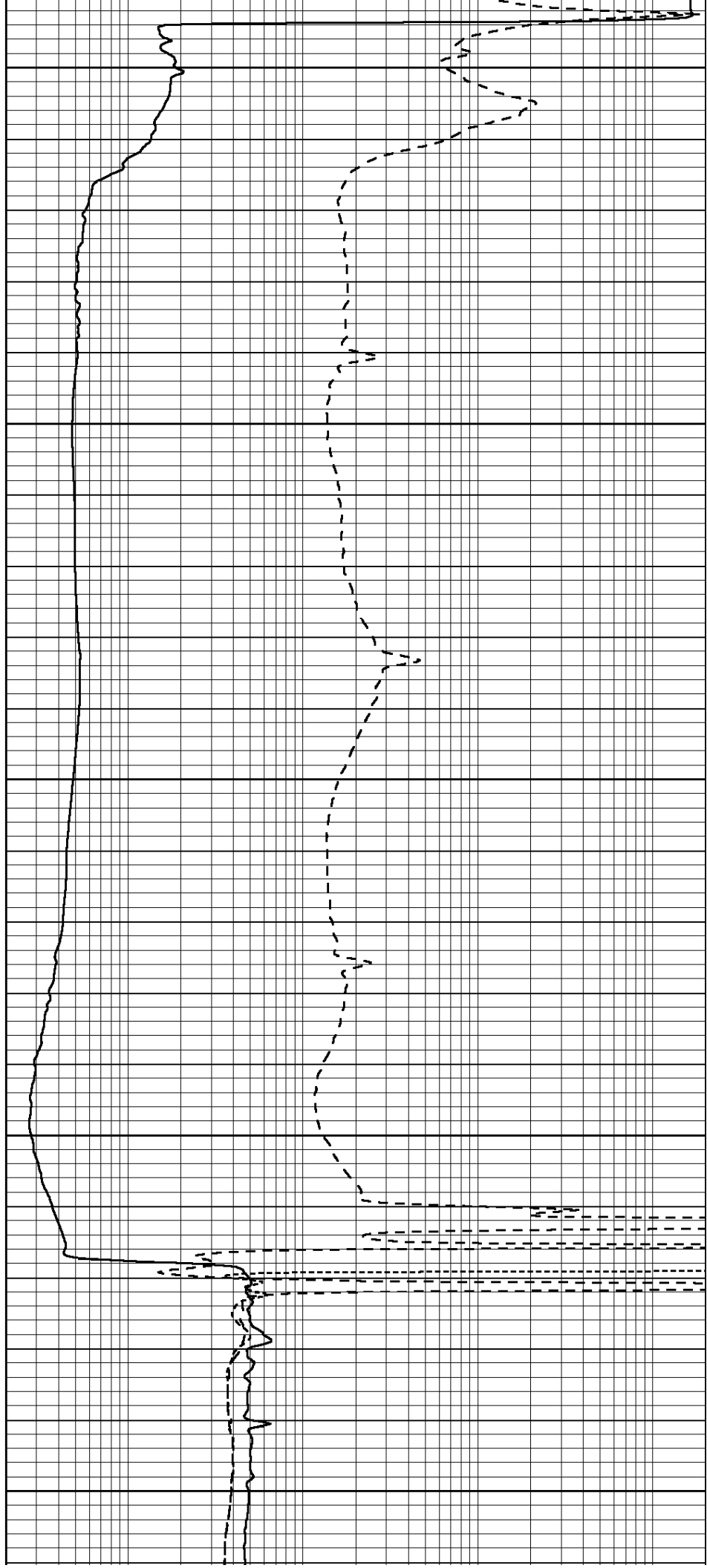
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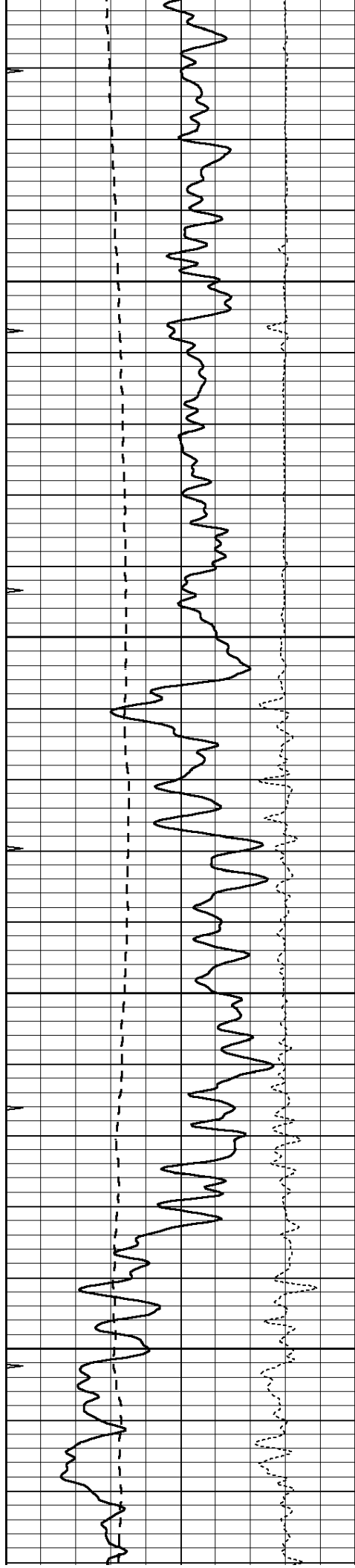
100

150

200

250



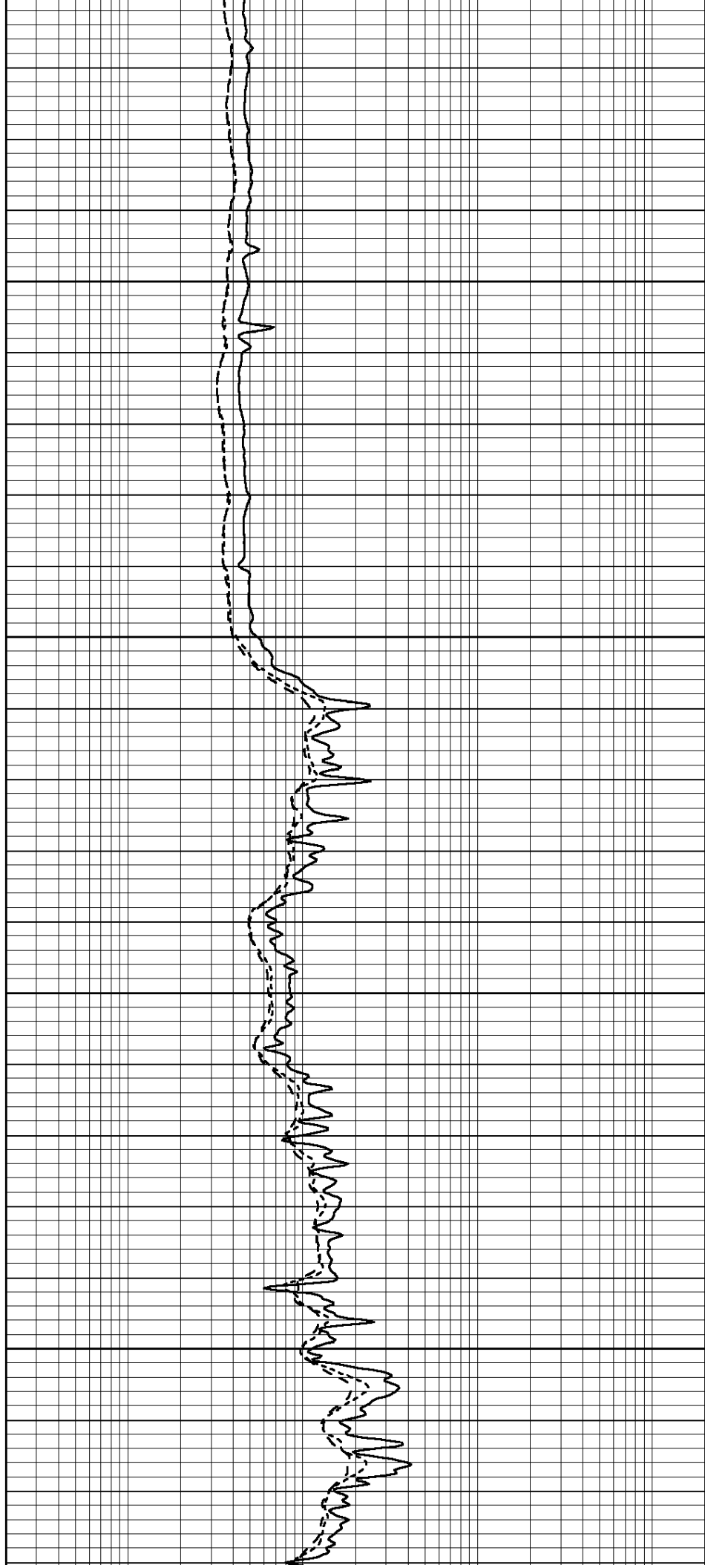


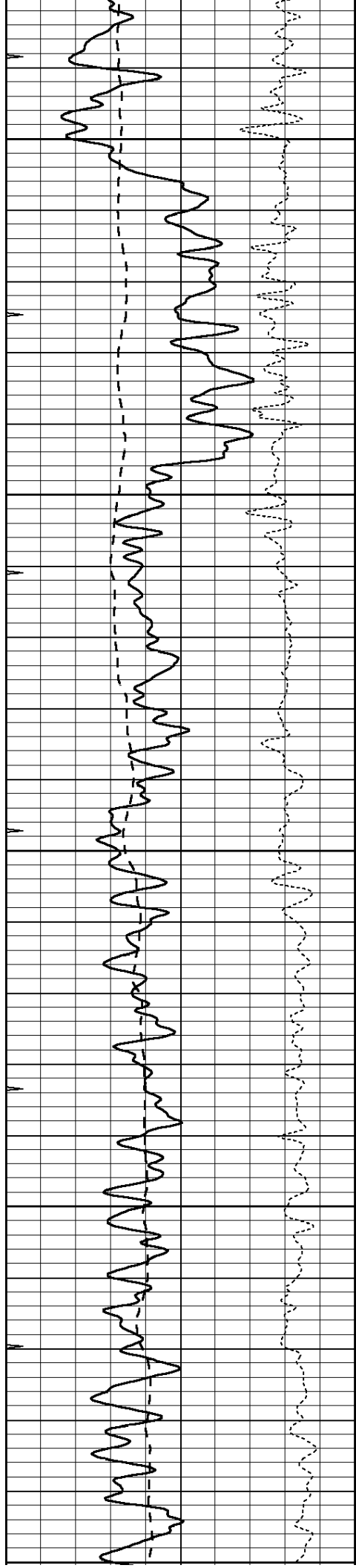
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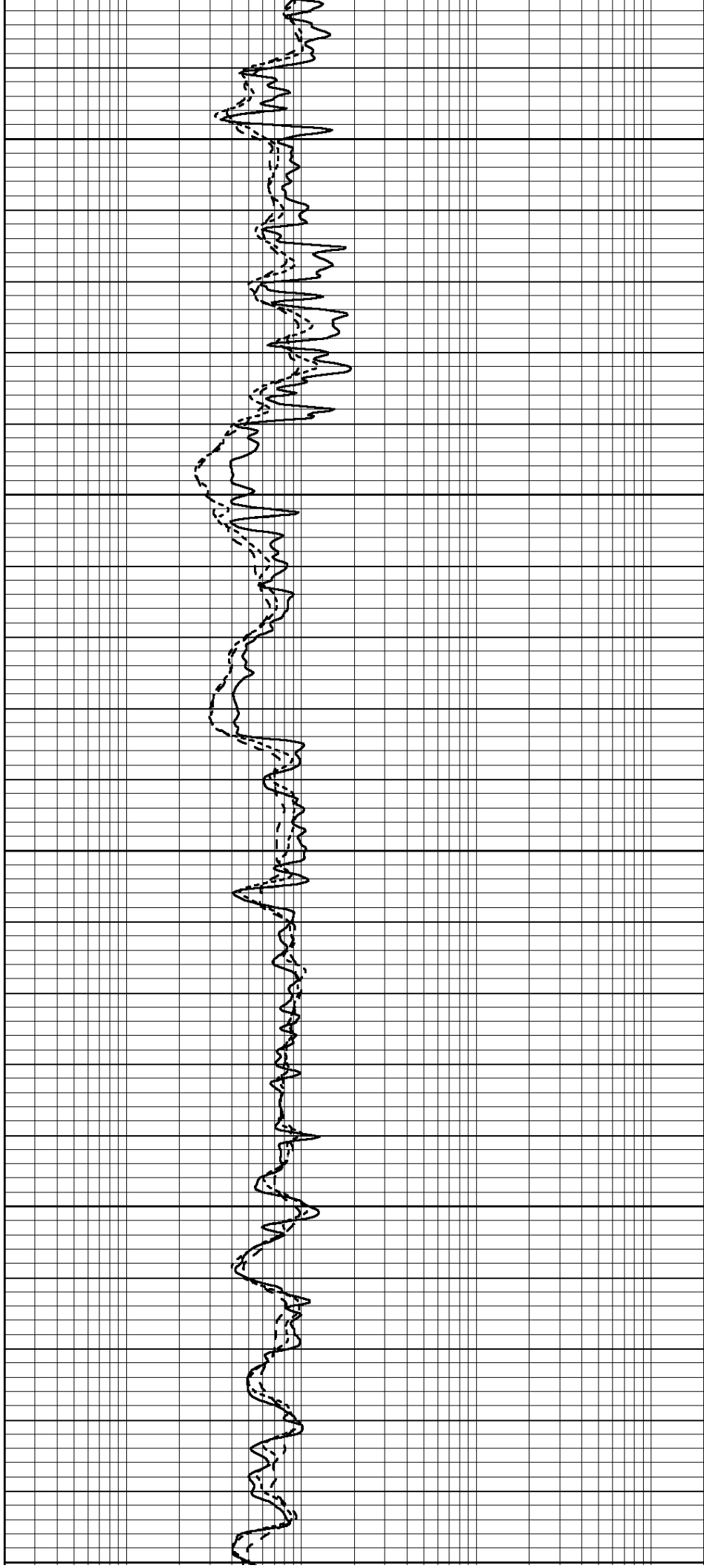
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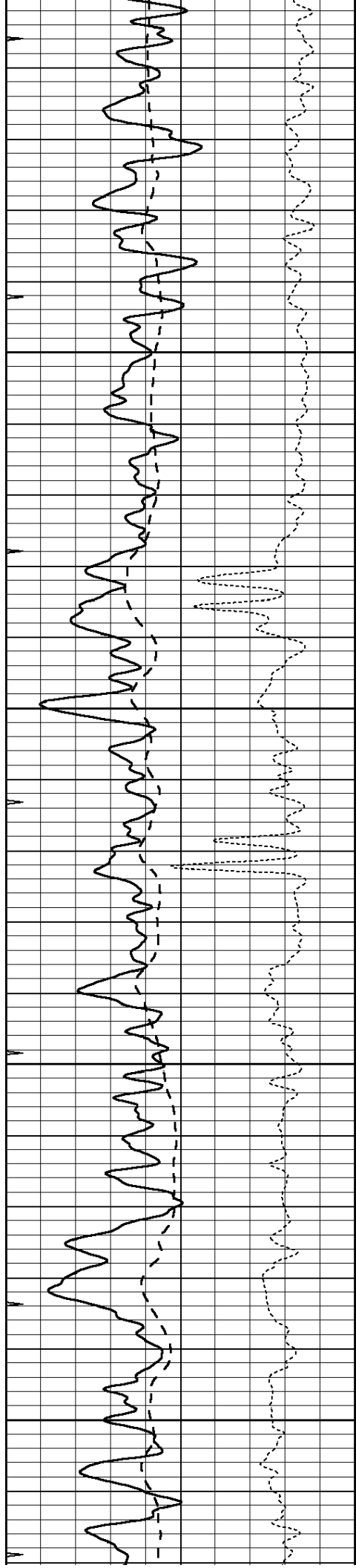
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650

700





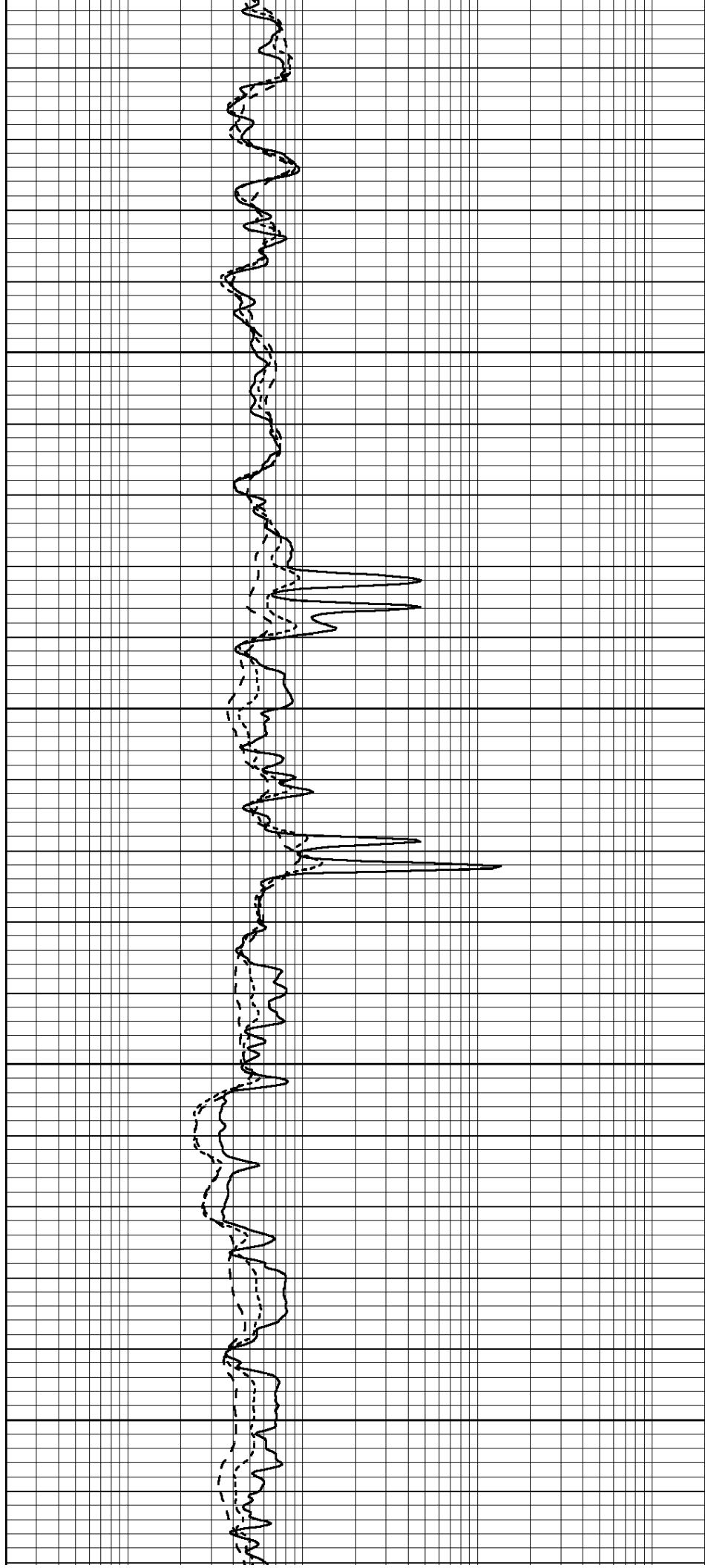
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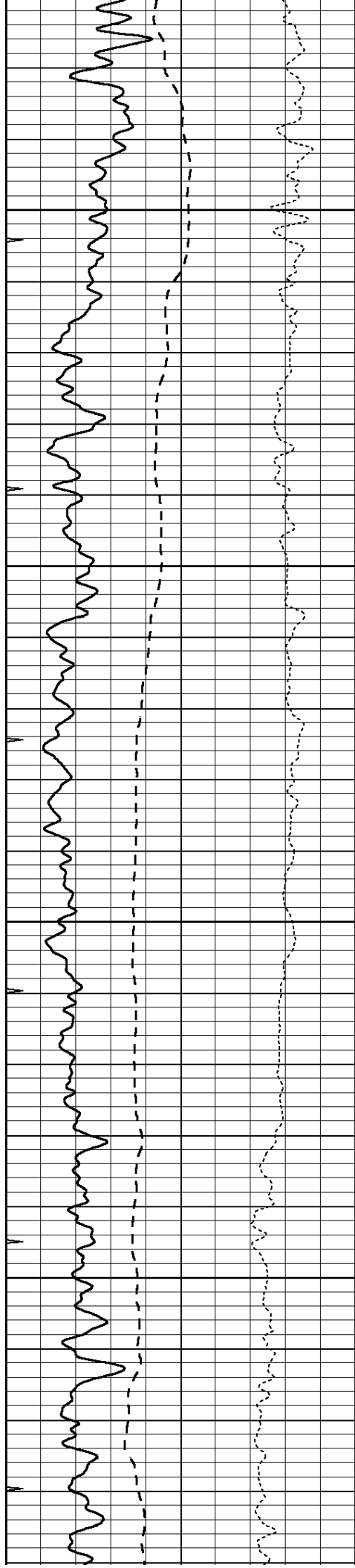
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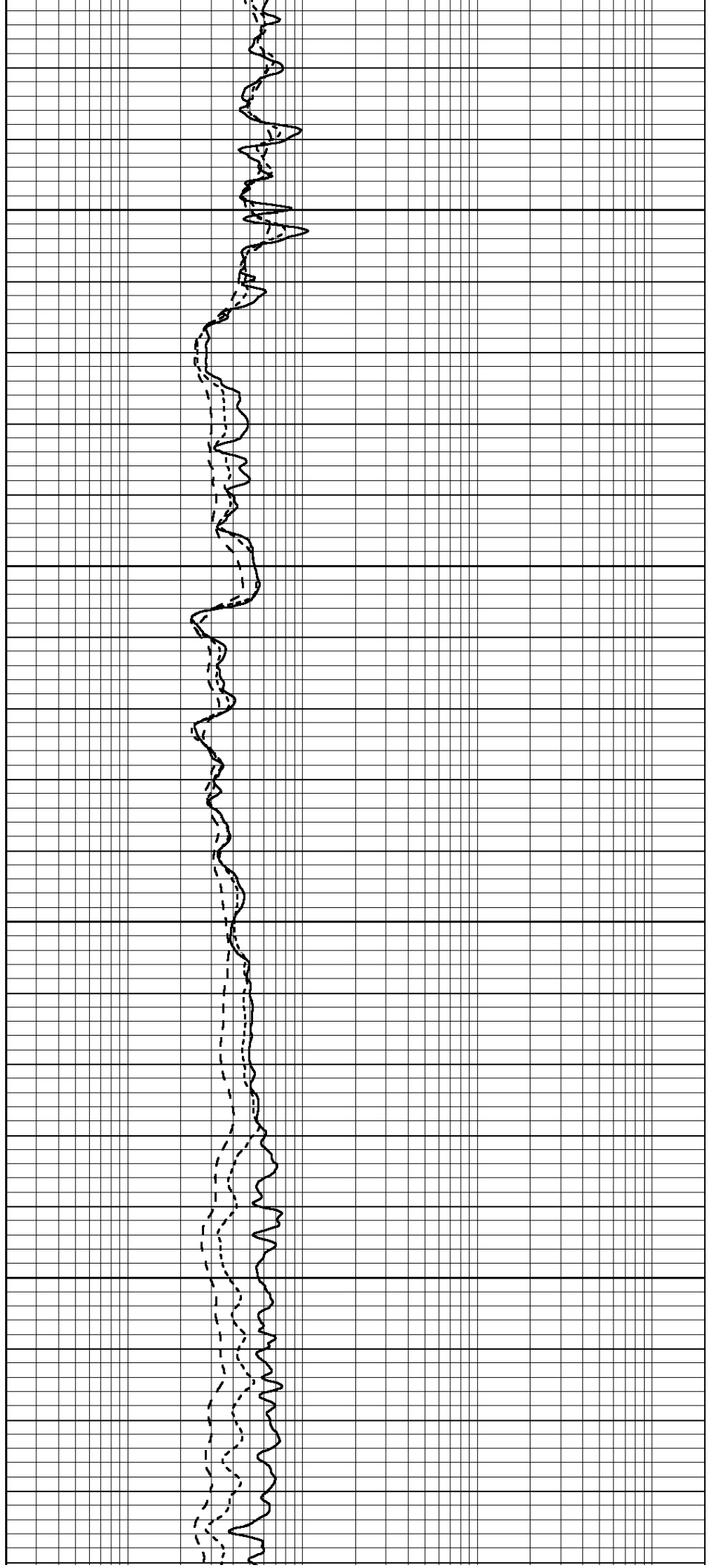


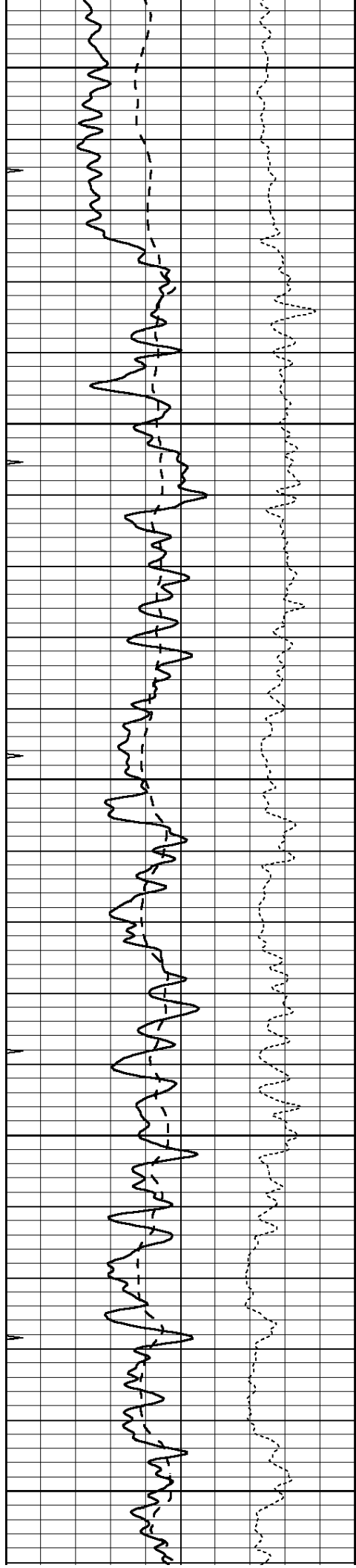
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1000

1050

1100





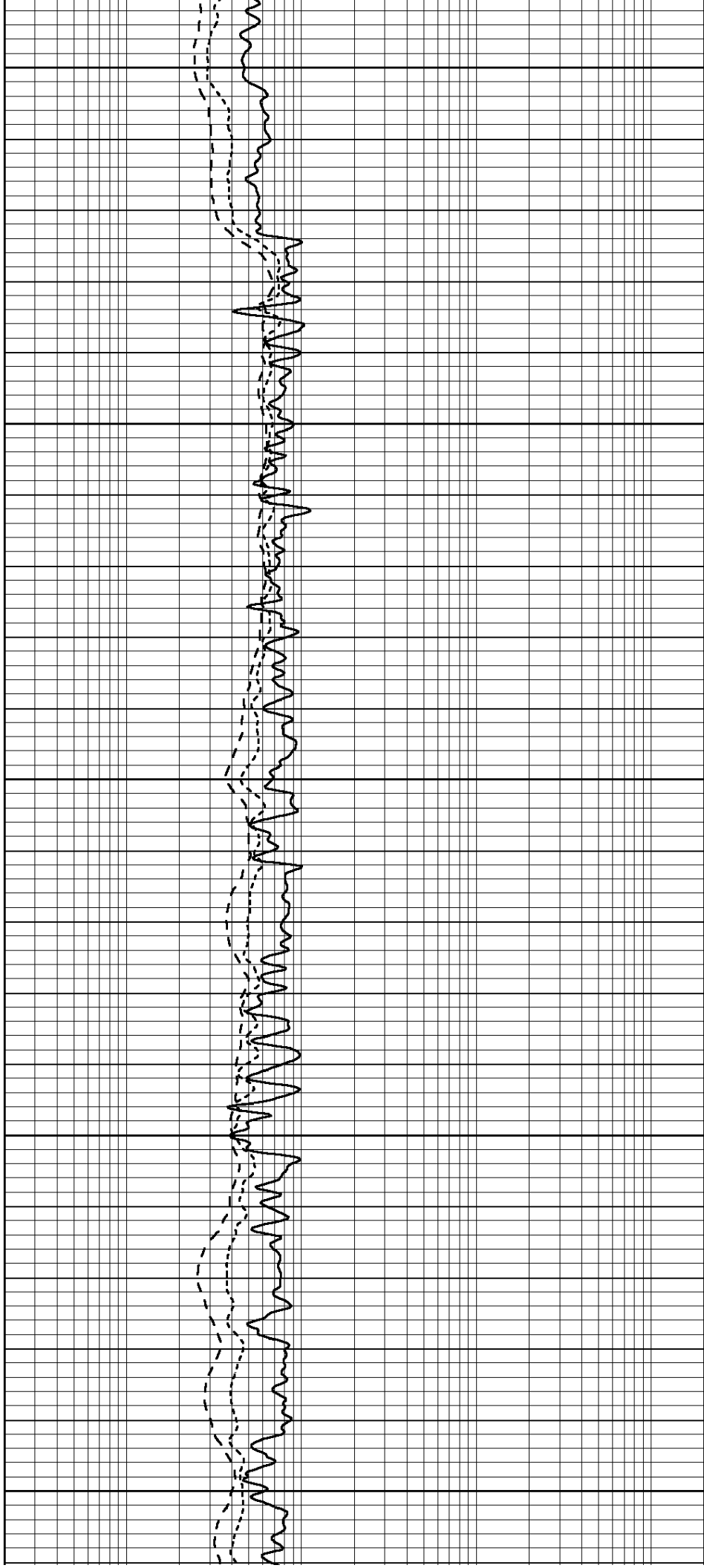
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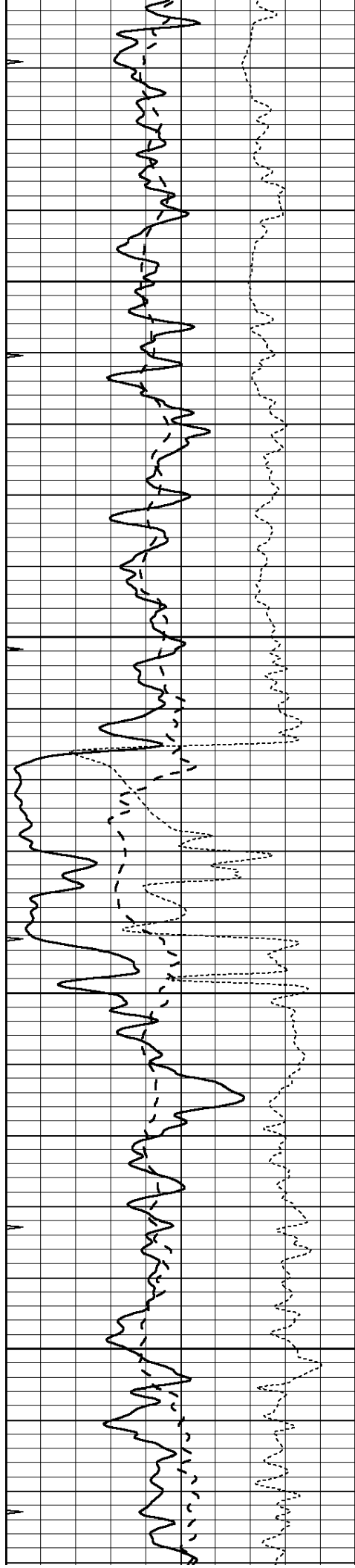
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1350



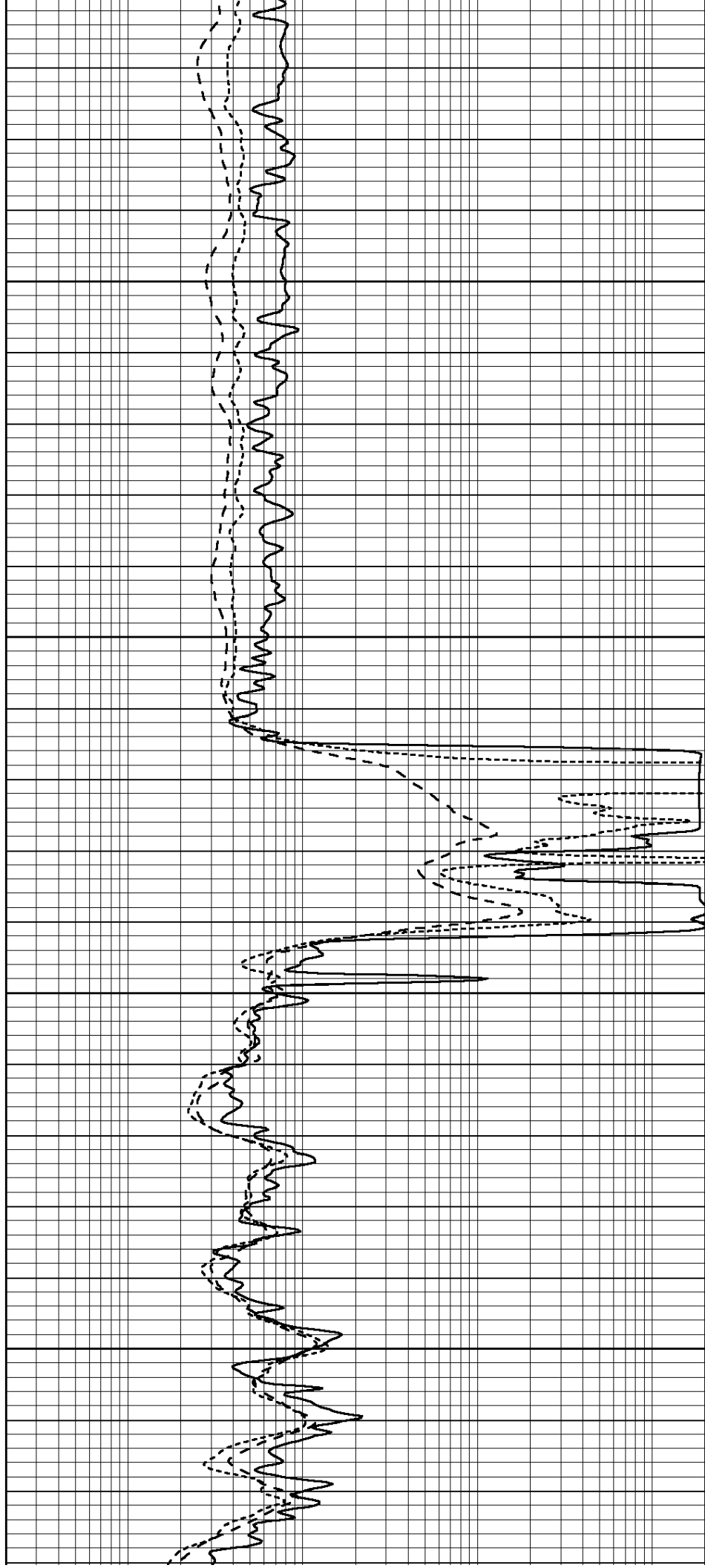


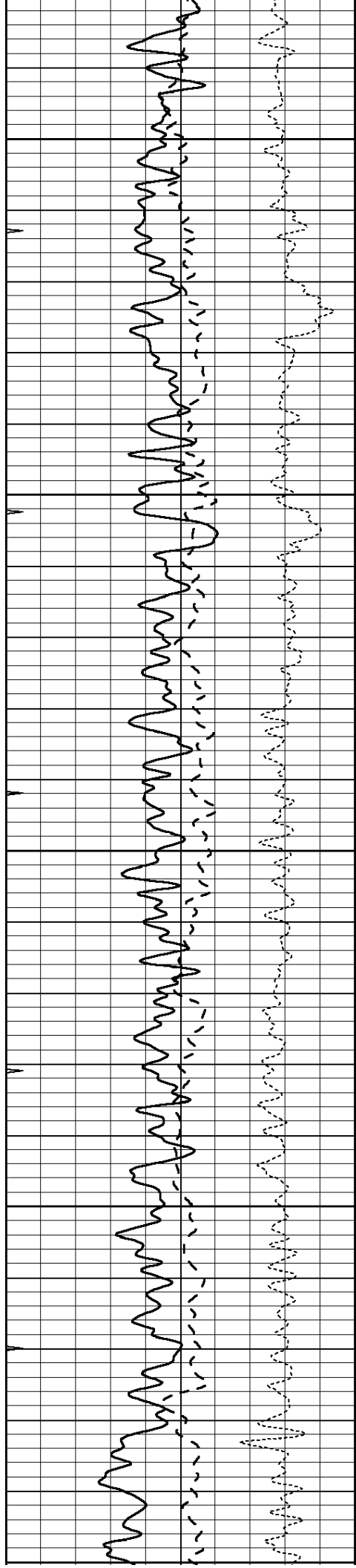
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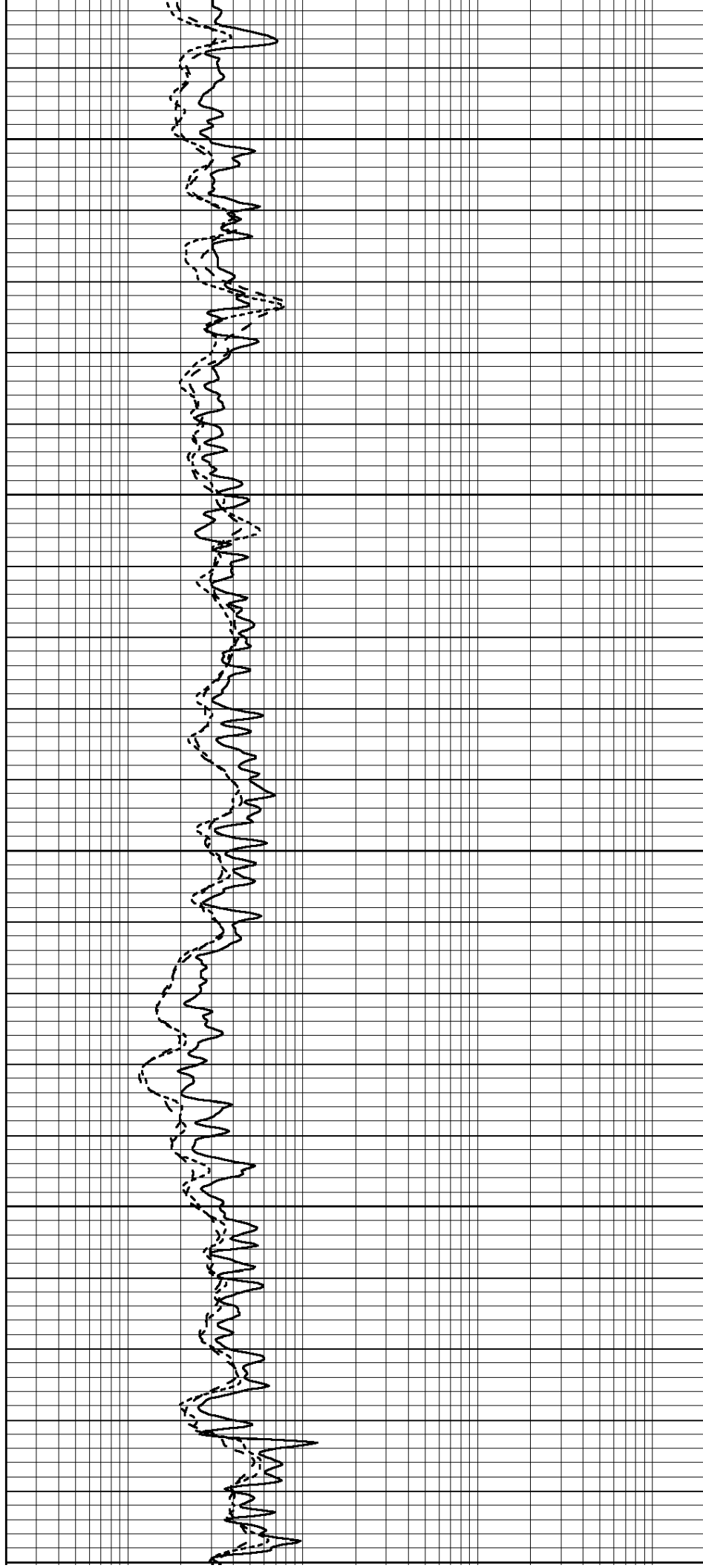
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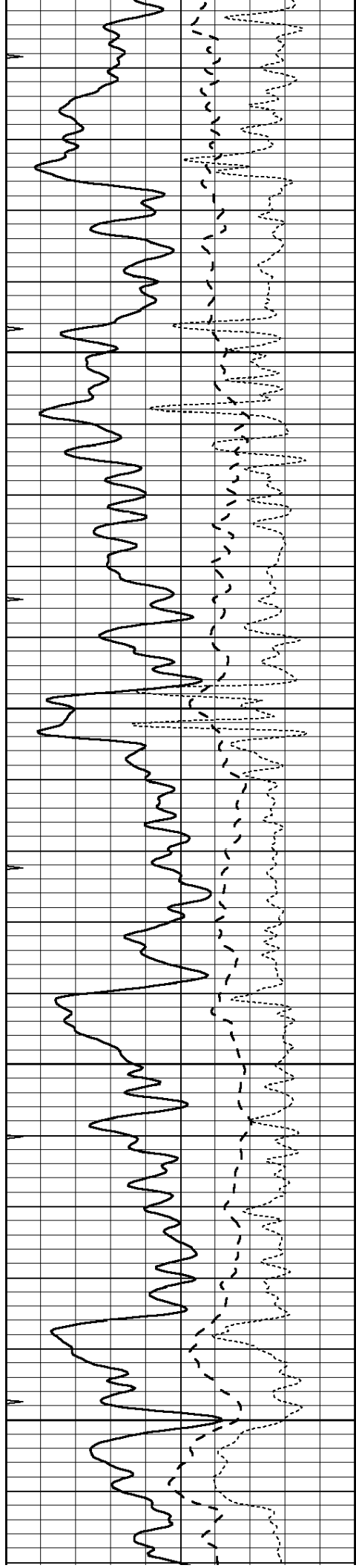
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1700

1750

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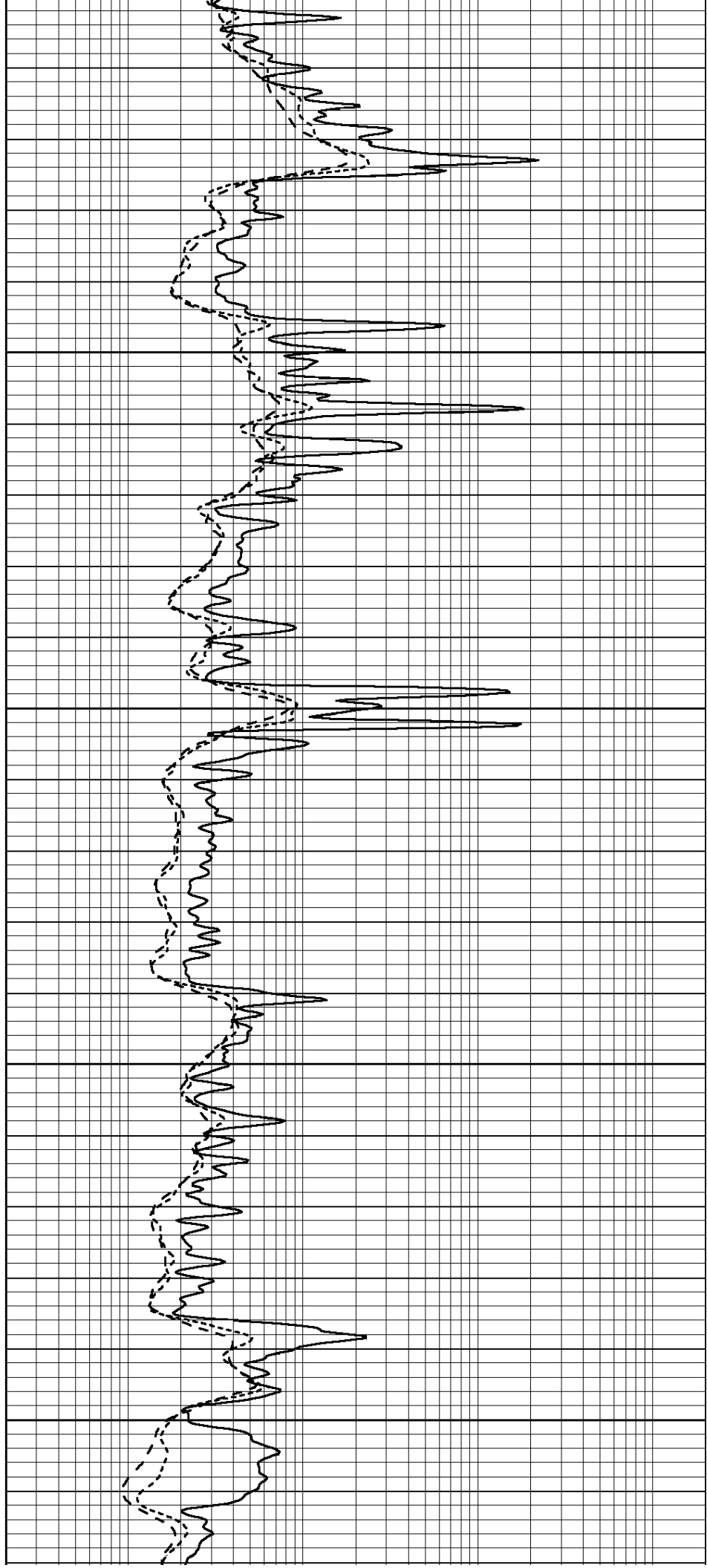


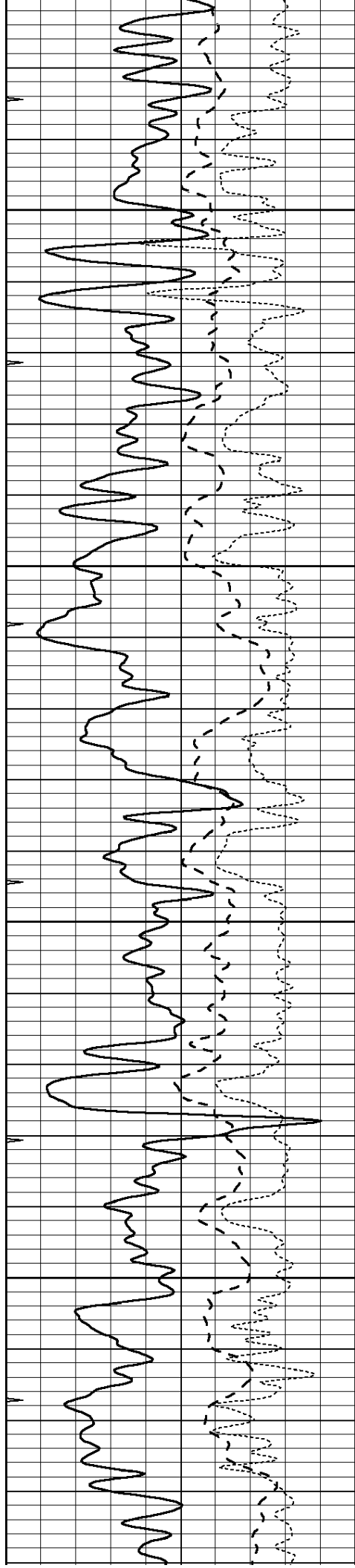
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1900

1950

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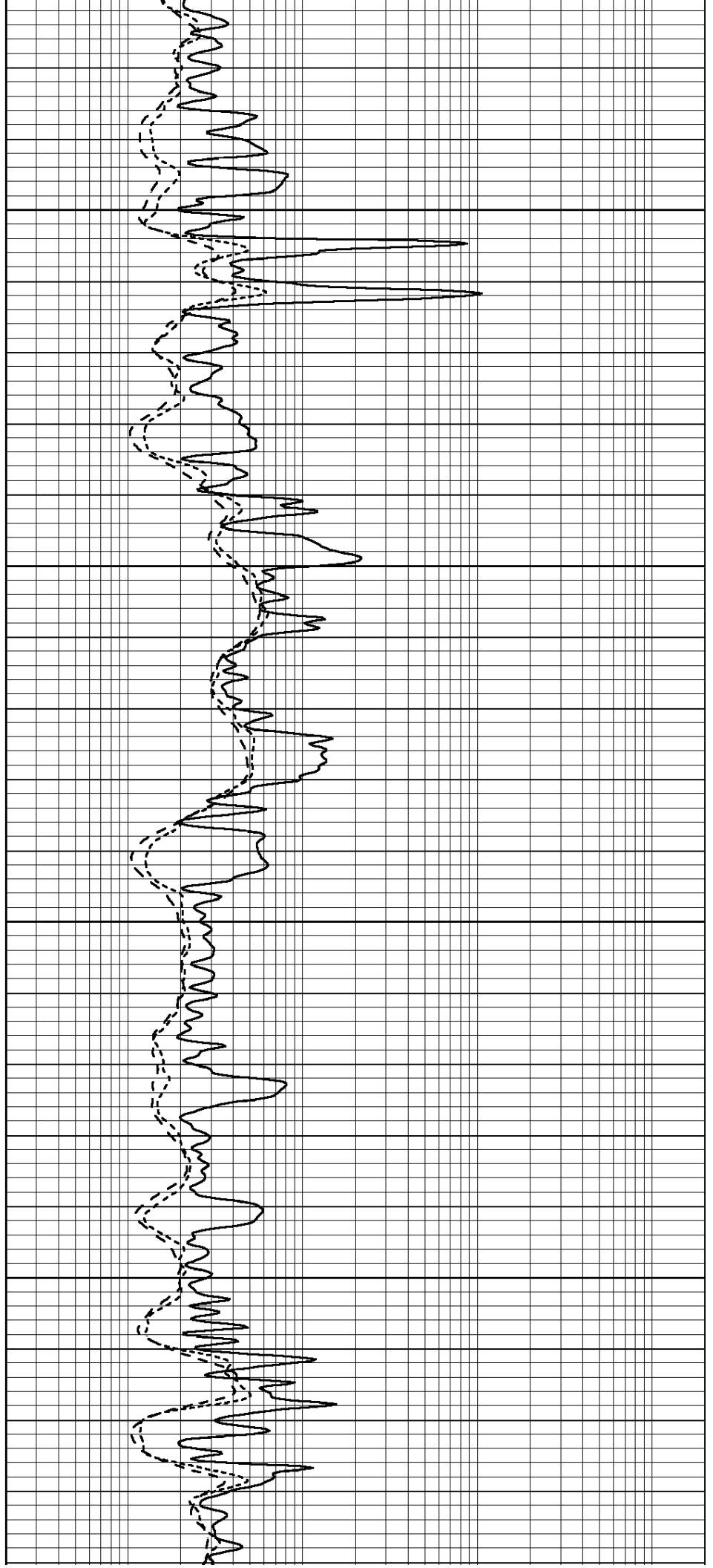


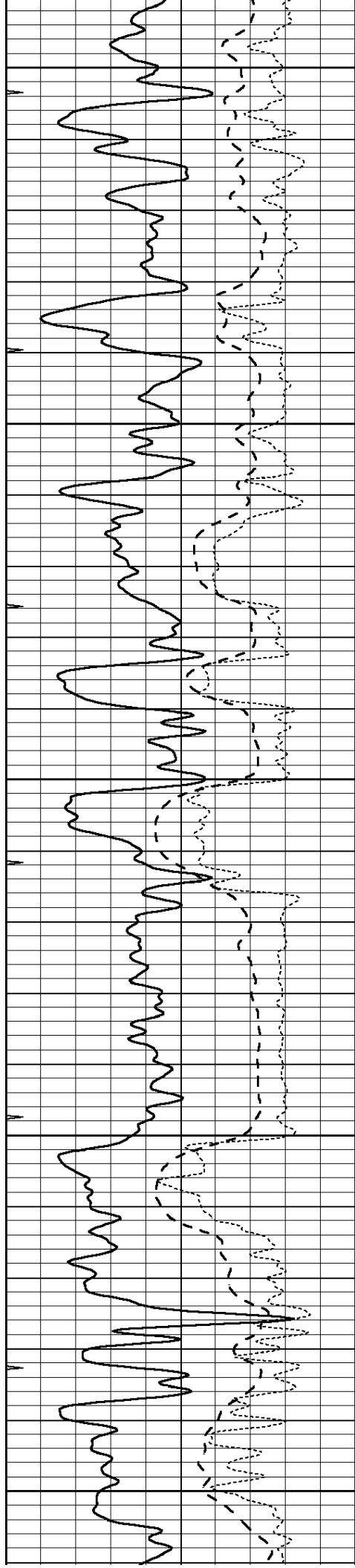
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2100

2150

2200





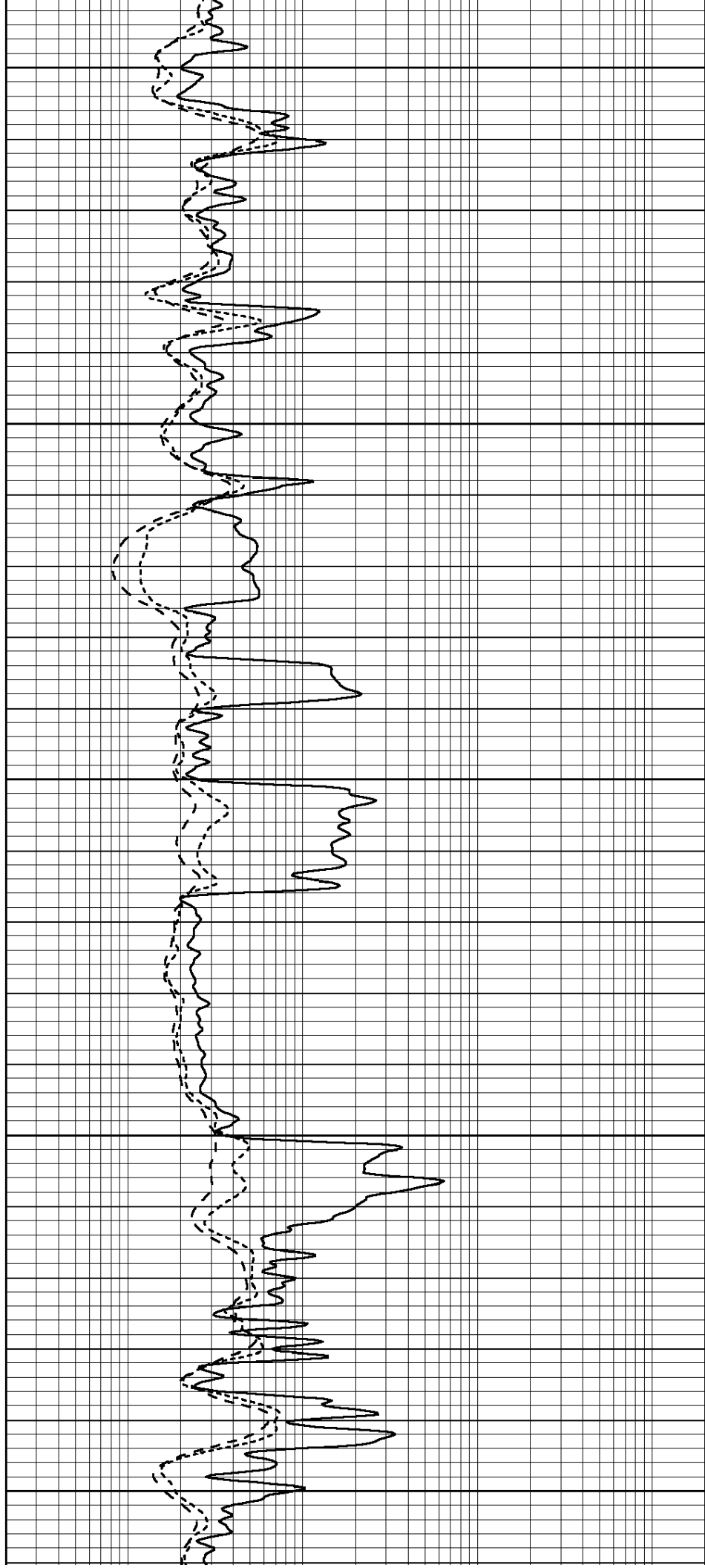
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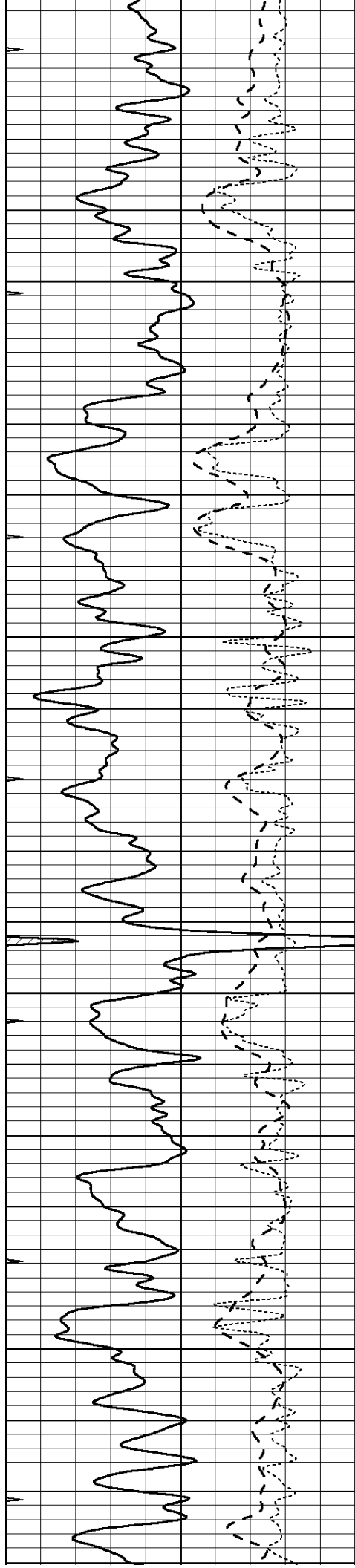
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2400

2450



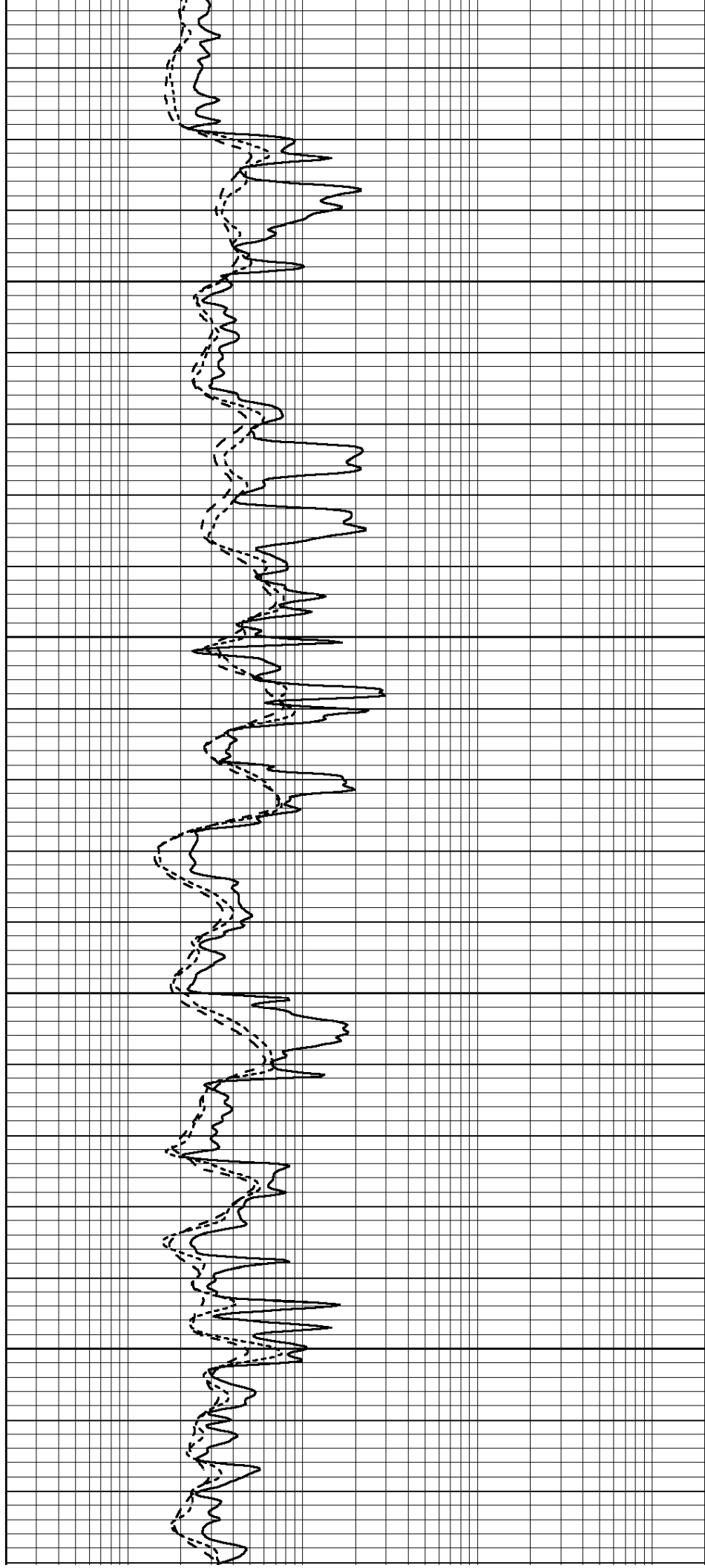


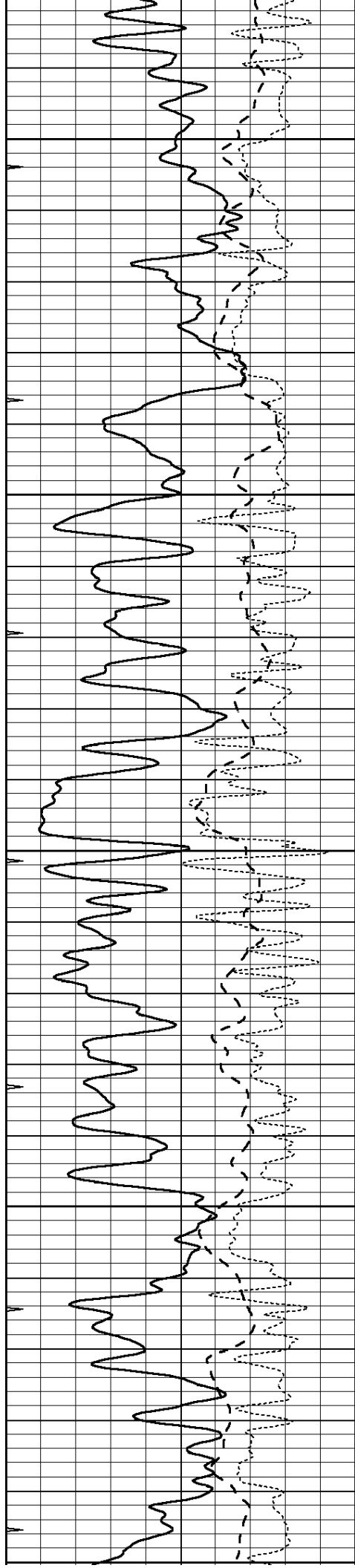
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2600

2650





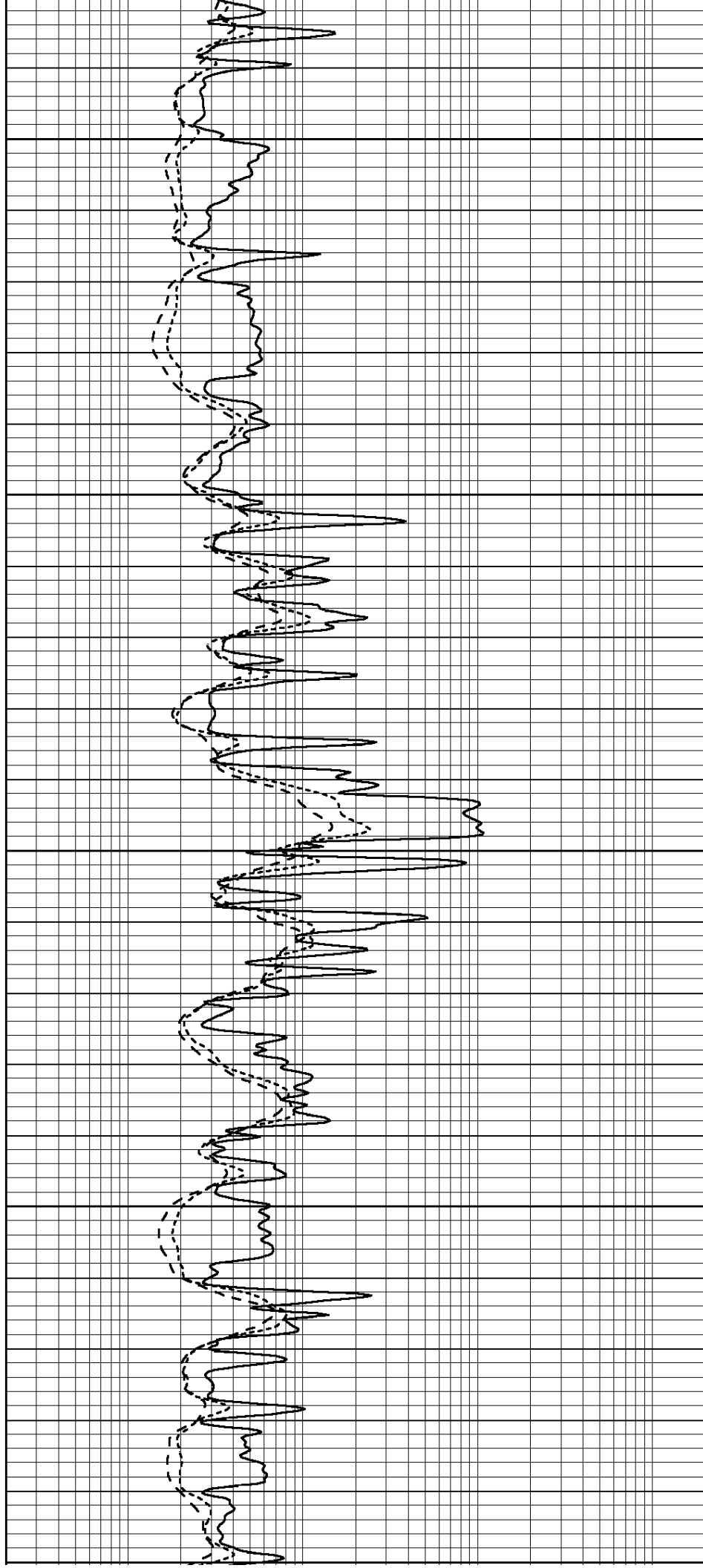
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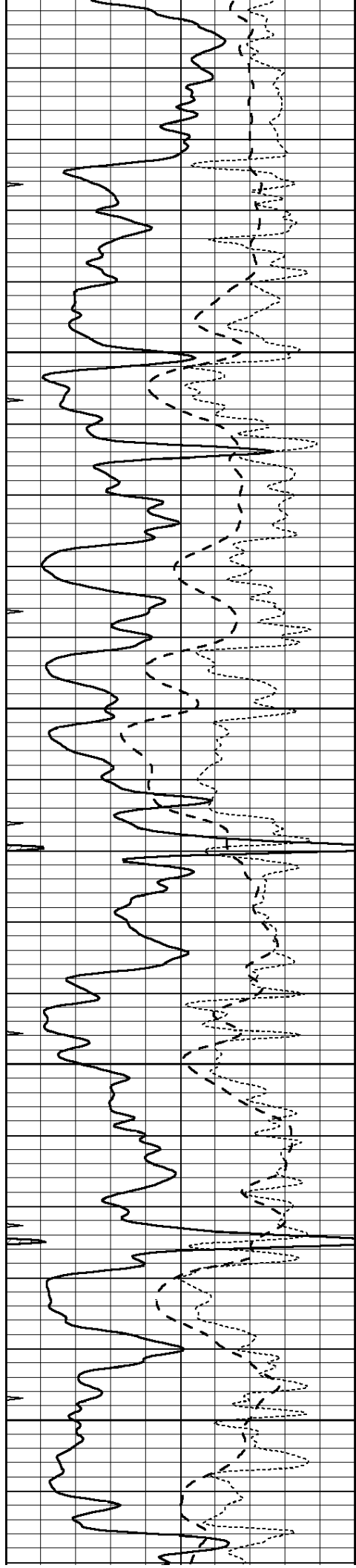
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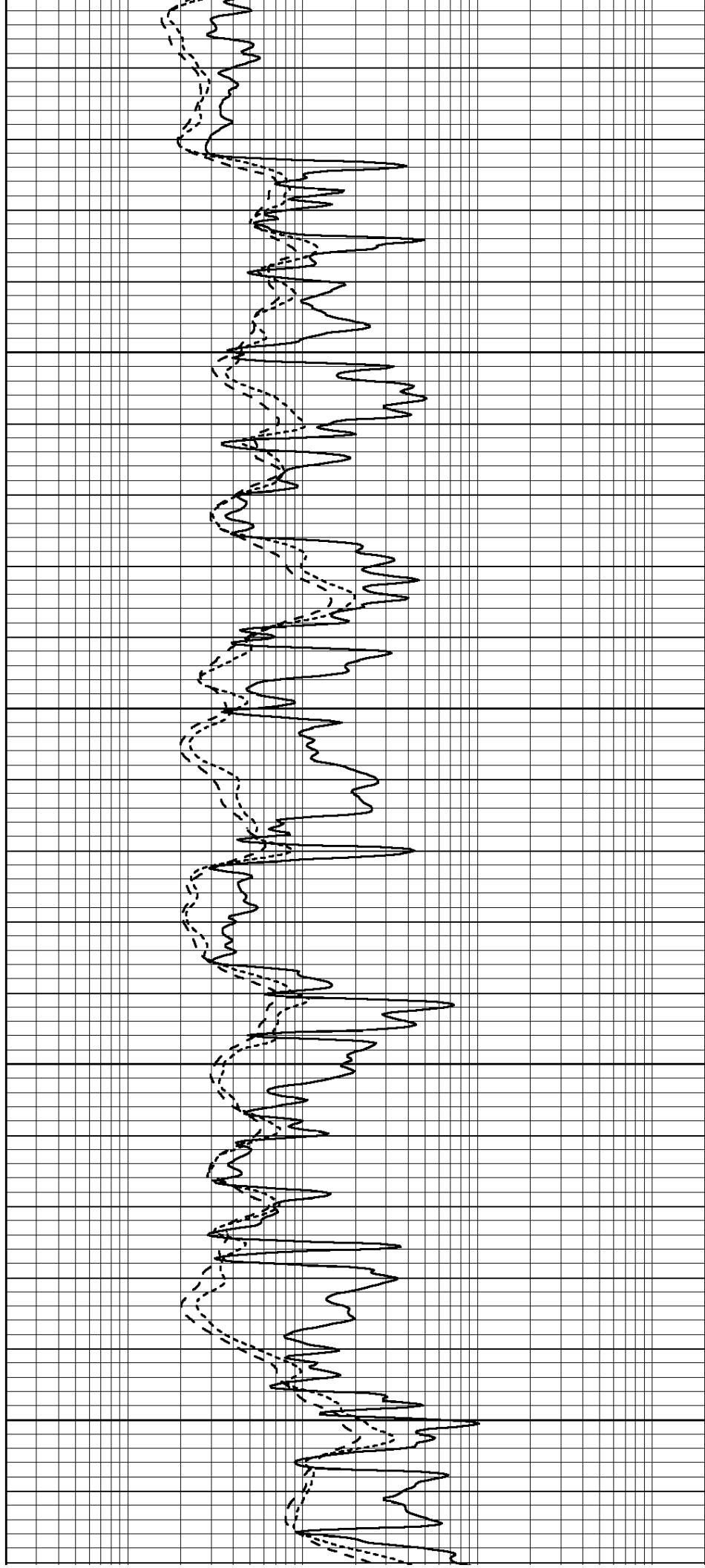
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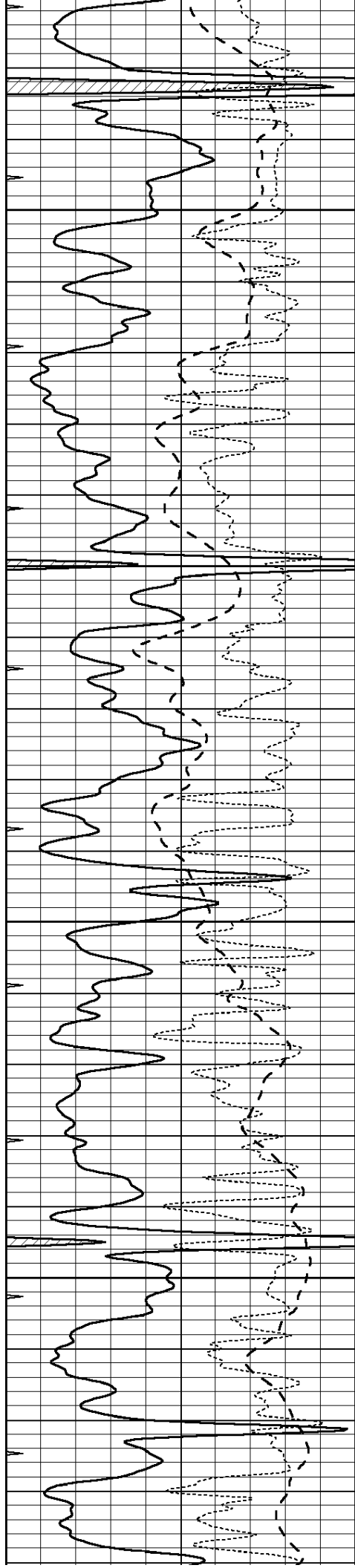
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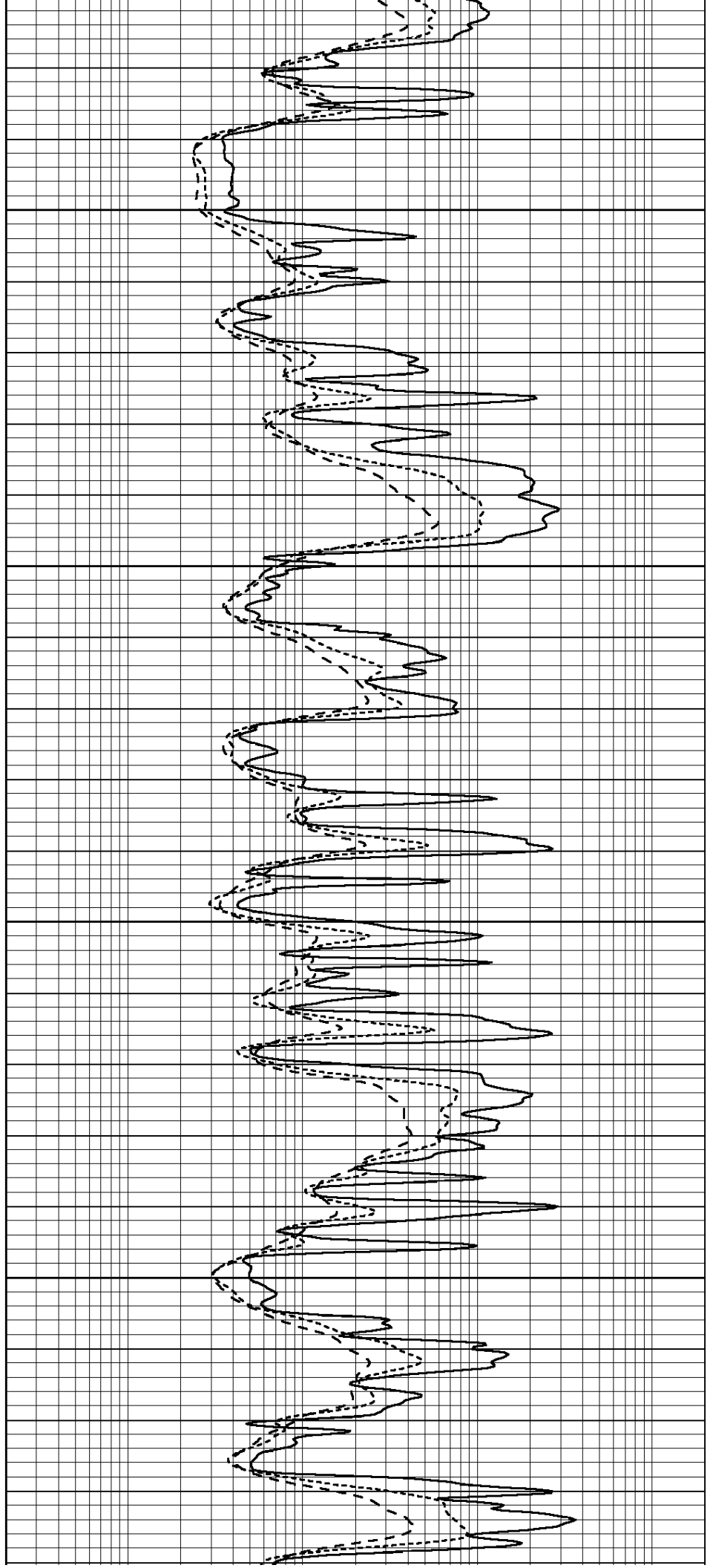


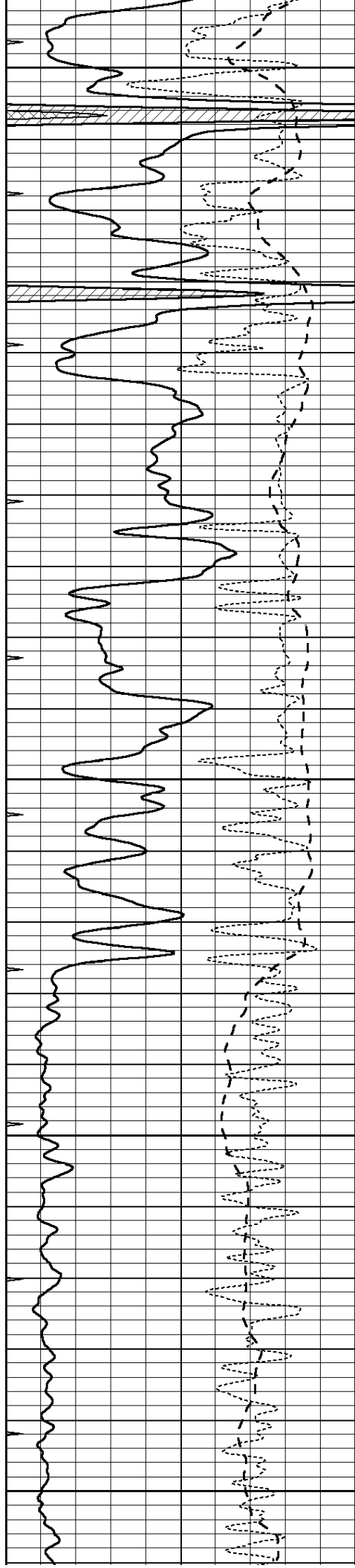
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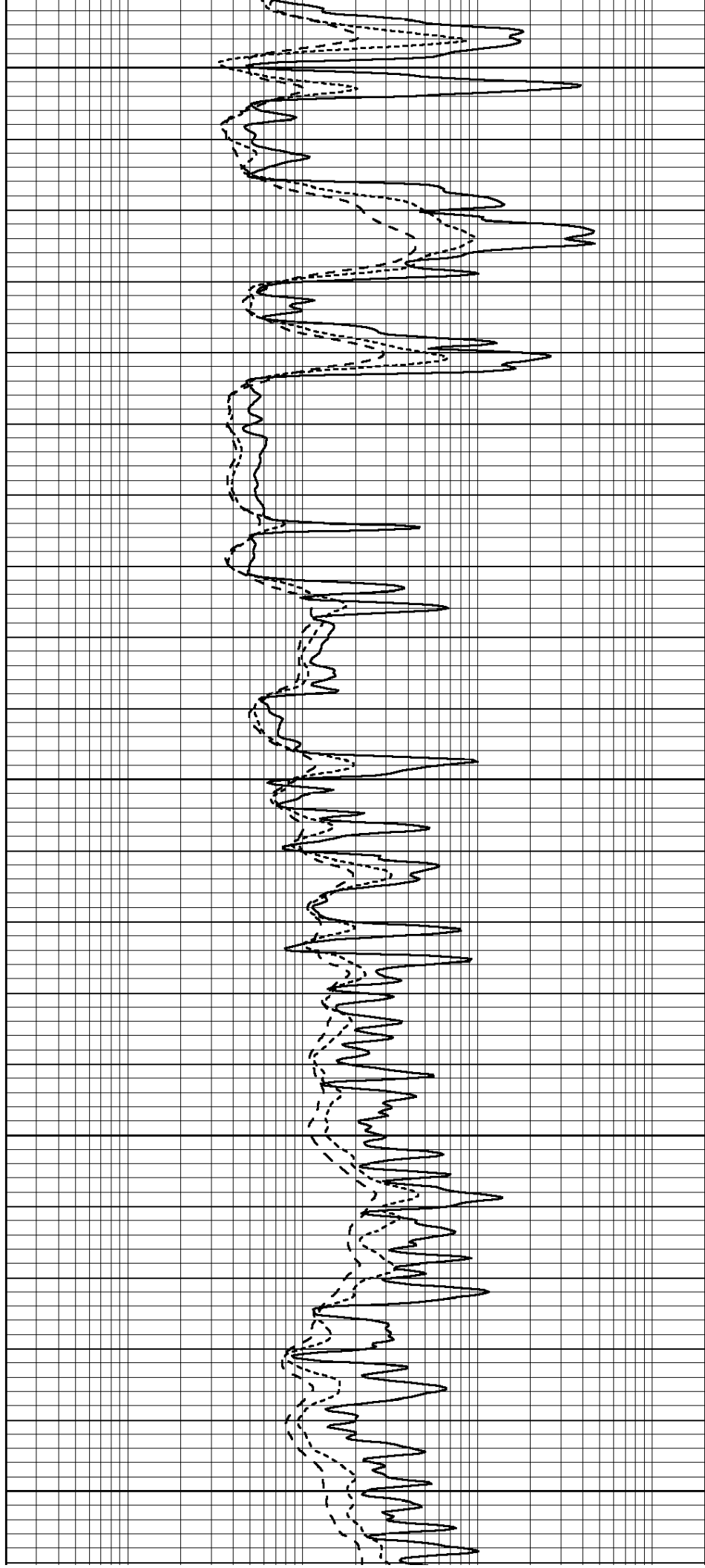
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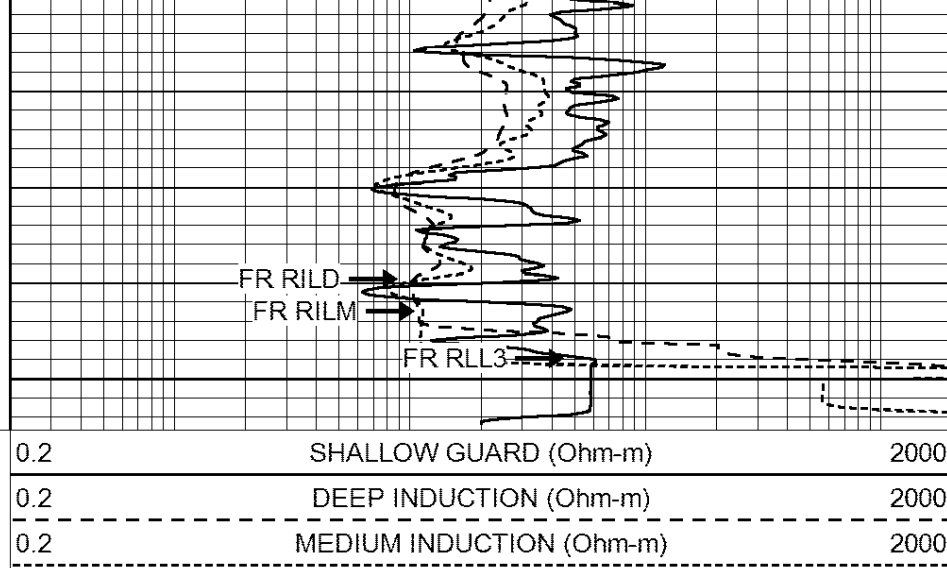
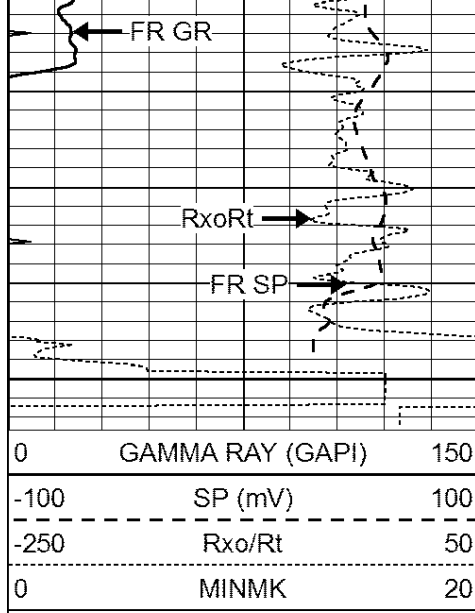
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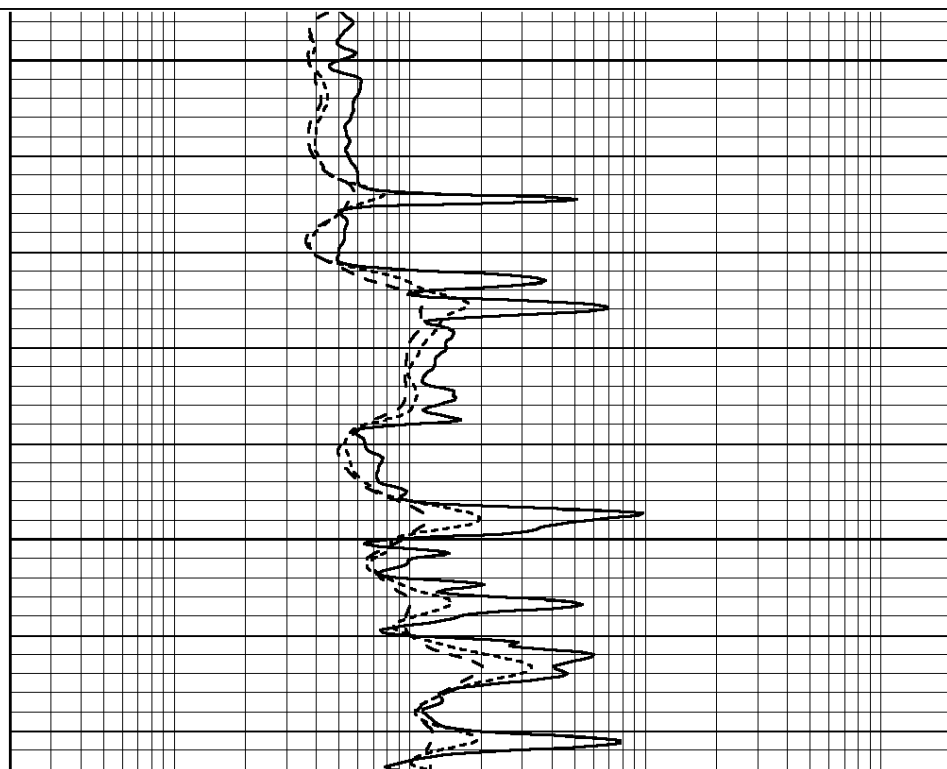
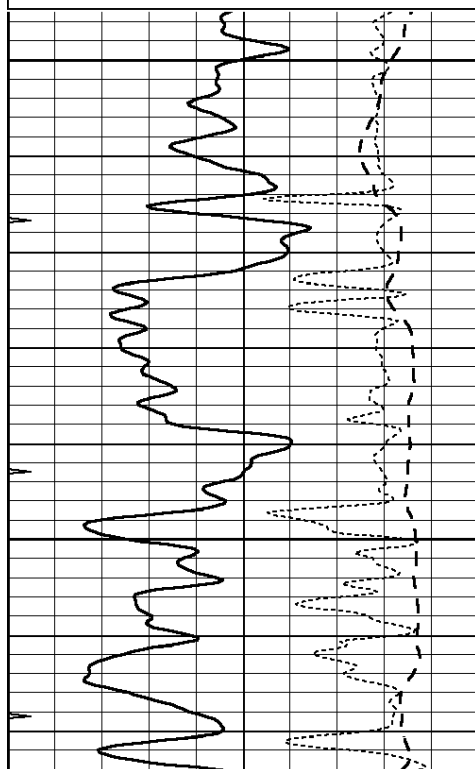
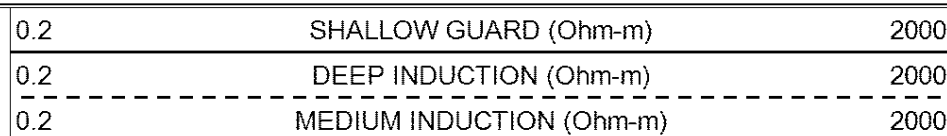
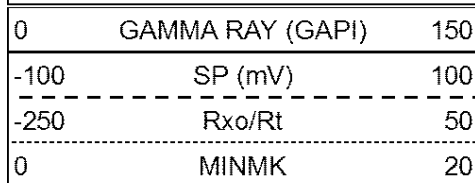
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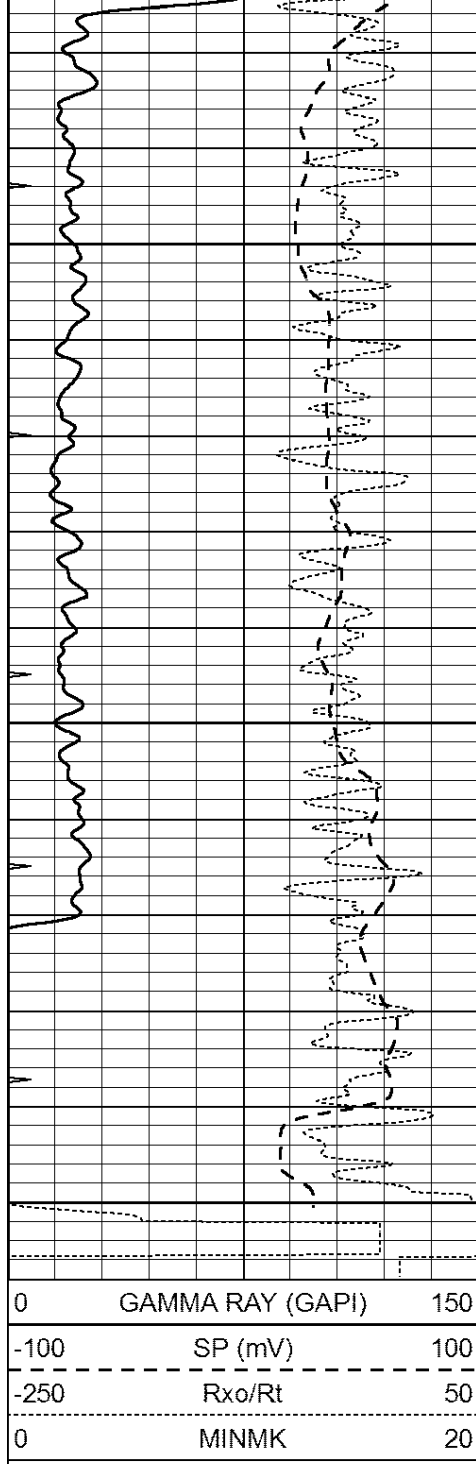




REPEAT SECTION

Database File: 26414pe.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Mon Dec 08 10:02:26 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

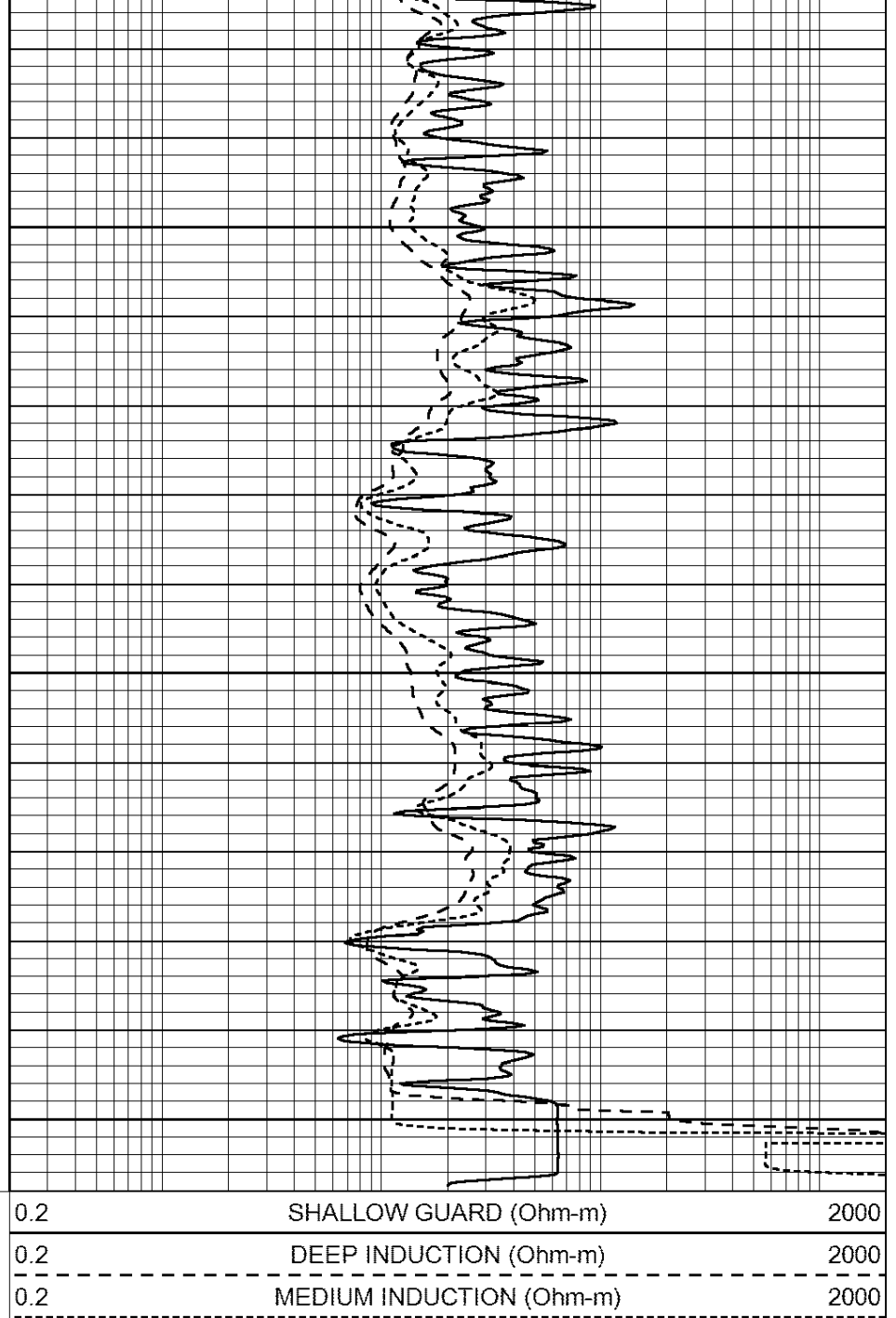




3500

3550

3600



Calibration Report

Database File: 26414pe.db
 Dataset Pathname: pass2.1
 Dataset Creation: Mon Dec 08 10:02:26 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Sun Aug 17 08:09:53 2014
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Readings

References

Results

Loop:

Air

Loop

Air

Loop

m

b

Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	-2.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-16.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		
Litho Density Calibration Report								
Serial: 006			Model: PRB					
Master Calibration								
Performed Wed Mar 12 14:26:38 2014								
	Background		Magnesium		Aluminum		Sandstone	
Window 1	1296.6		7199.0		2625.4		7833.2	cps
Window 2	1218.8		5956.6		2257.8		6372.0	cps
Window 3	926.7		2990.0		1318.7		3107.7	cps
Window 4	314.3		319.6		320.3		326.2	cps
Long Space	0.0		4737.9		1039.0		5153.3	cps
Short Space	1.3		1655.6		1074.2		1728.4	cps
Rho			1.7100		2.5960		1.3800	g/cc
Pe			0.0000		2.5700		1.5500	
Rib Angle	: 44.1		Rib Slope	: 0.969		Density/Spine Ratio	: 0.562	
Spine Angle	: 74.1		Spine Slope	: 3.507		Spine Intercept	: -17.5	
Before Survey Verification								
Performed Wed Dec 31 18:00:00 1969								
Window 1	0.0		0.0		0.0		0.0	cps
Window 2	0.0		0.0		0.0		0.0	cps
Window 3	0.0		0.0		0.0		0.0	cps
Window 4	0.0		0.0		0.0		0.0	cps
Long Space	0.0		0.0		0.0		0.0	cps
Short Space	0.0		0.0		0.0		0.0	cps
Measured Rho			0.0000		0.0000		0.0000	g/cc
Measured Correction			0.0000		0.0000		0.0000	g/cc
Measured Pe					0.0000		0.0000	
After Survey Verification								
Performed Wed Dec 31 18:00:00 1969								
Window 1	0.0		0.0		0.0		0.0	cps

Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number:	6I
Tool Model:	G

CALIBRATION						
Detector		Readings		Target		Normalization
Short Space		1.00	cps	1.00	cps	1.0000
Long Space		1.00	cps	1.00	cps	1.0000

PRE-SURVEY VERIFICATION						
Detector		Readings		Measured	Target	
1)	Short Space					
	Long Space			pu	pu	
2)	Short Space					
	Long Space			pu		
3)	Short Space					
	Long Space			pu		

POST-SURVEY VERIFICATION						
Detector		Readings		Measured	Target	
1)	Short Space					
	Long Space			pu	pu	
2)	Short Space					
	Long Space			pu	pu	
3)	Short Space					
	Long Space			pu	pu	

Gamma Ray Calibration Report

Serial Number:	GR6
Tool Model:	OPEN
Performed:	Sun Aug 17 15:23:09 2014
Calibrator Value:	150.0
Background Reading:	0.0
Calibrator Reading:	276.0
Sensitivity:	0.7000