



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		WOOLSEY OPERATING COMPANY, LLC.	
Well		STEWART TRUST "B" #2	
Field		TRAFFAS	
County		BARBER	
State		KANSAS	
Location:		API # : 15-007-24026-0000 2480' FNL & 330' FWL S/2 SW SW NW	
Permanent Datum Log Measured From Drilling Measured From		SEC 21 TWP 33S RGE 10W GROUND LEVEL KELLY BUSHING 12' A.G.L. KELLY BUSHING	
		Other Services CDL/CNL/PE Elevation K.B. 1501 D.F. 1489 G.L. 1489	
Date	6/14/12		
Run Number	ONE		
Depth Driller	5087		
Depth Logger	5090		
Bottom Logged Interval	5088		
Top Log Interval	00		
Casing Driller	10 3/4' @ 221		
Casing Logger	219		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1/57	CHLORIDES 4500 PPM	
pH / Fluid Loss	9.5/8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.55 @ 103F		
Rmf @ Meas. Temp	.41 @ 103F		
Rmc @ Meas. Temp	.66 @ 103F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.44 @ 126F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	126F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	SCOTT ALBERG		

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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 COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS:

SHARON, KS. - 5 S. ON TRI CITY BLKTOP - 1 W. - 1/4 S. - E. & S. INTO



NABORS
COMPLETION
& PRODUCTION

MAIN SECTION

Database File:

011255pe.db

Dataset Pathname:

pass3.2

Presentation Format:

_dil2

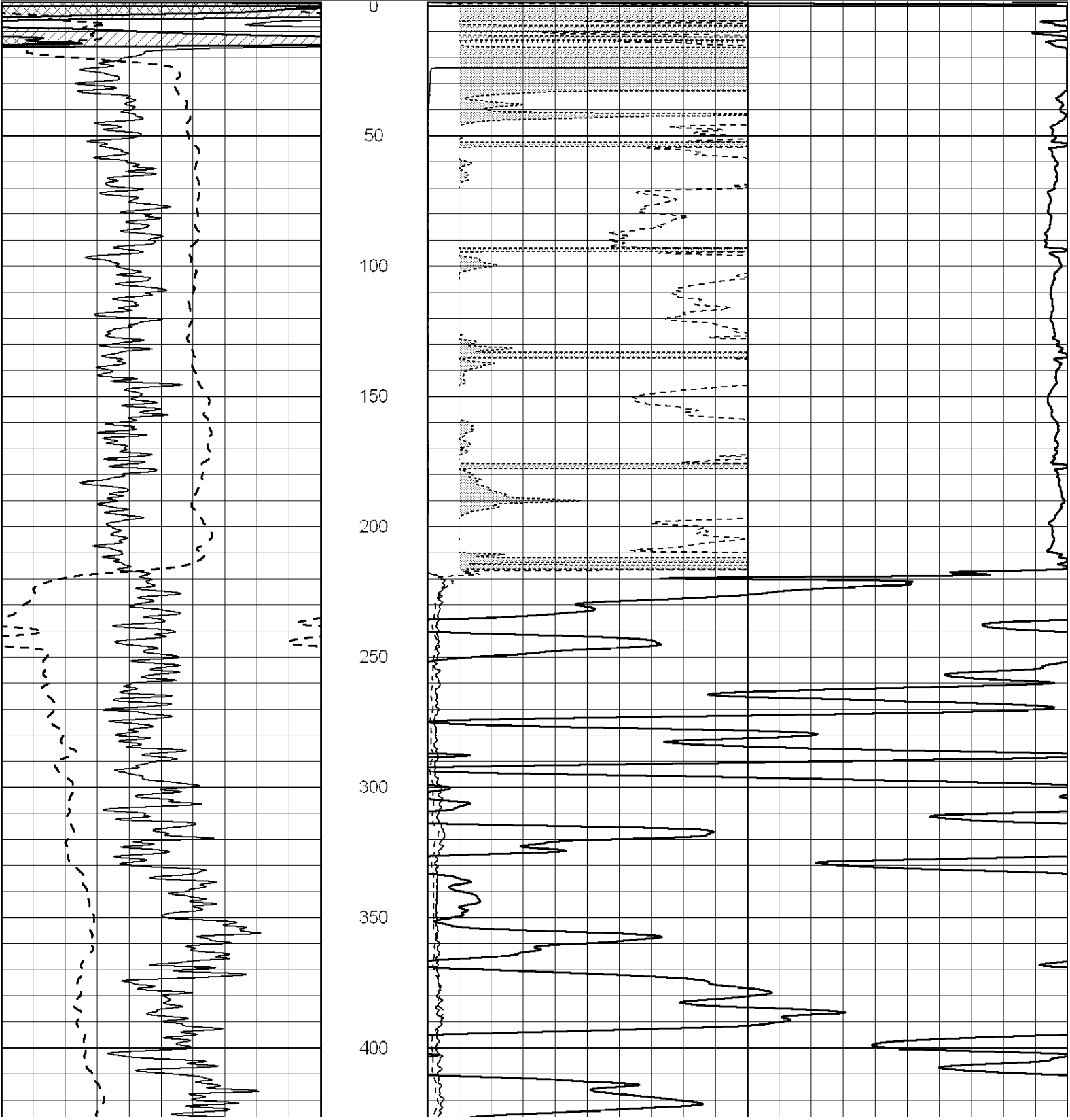
Dataset Creation:

Fri Jun 14 19:05:12 2013 by Calc Open-Cased 090629

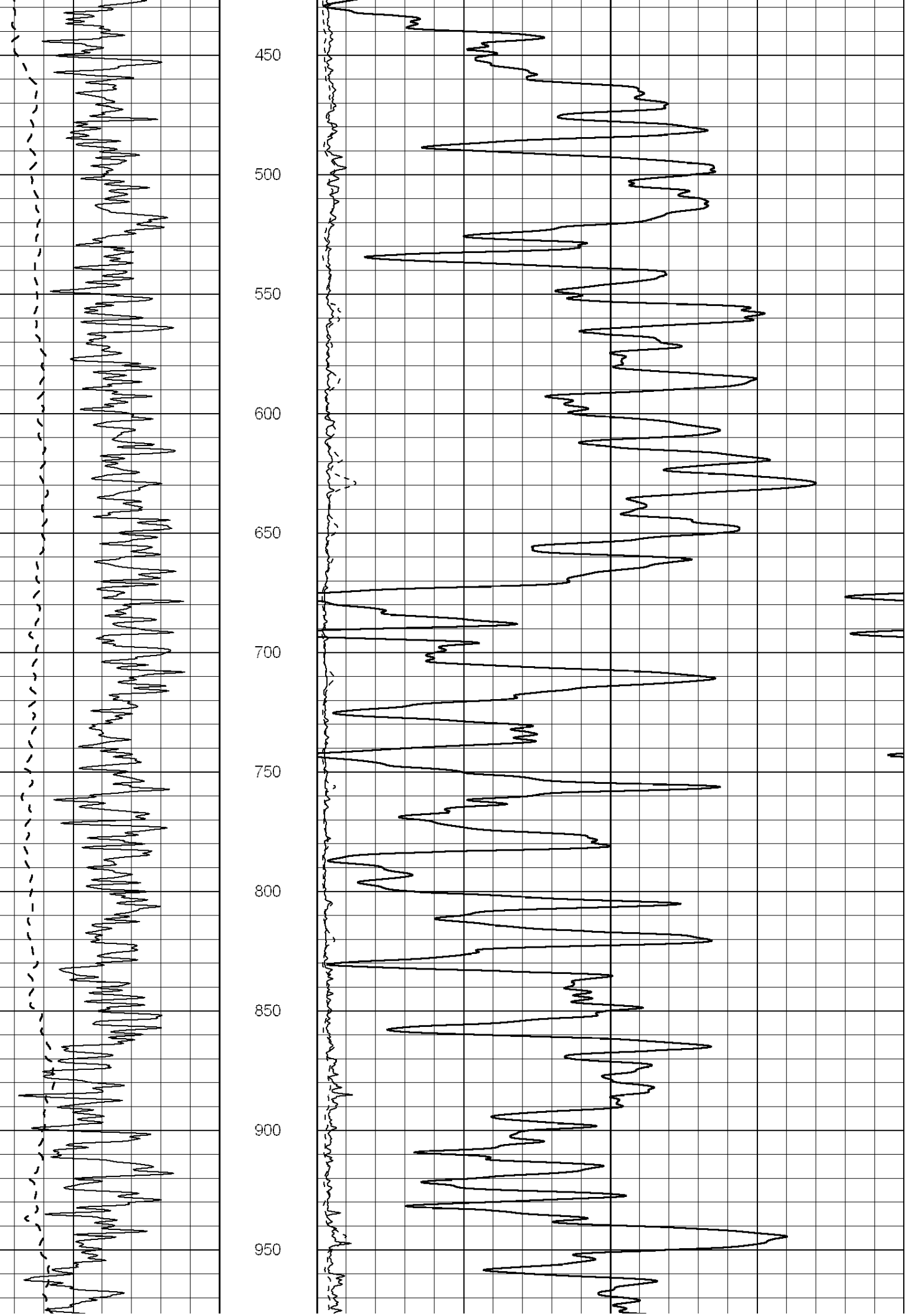
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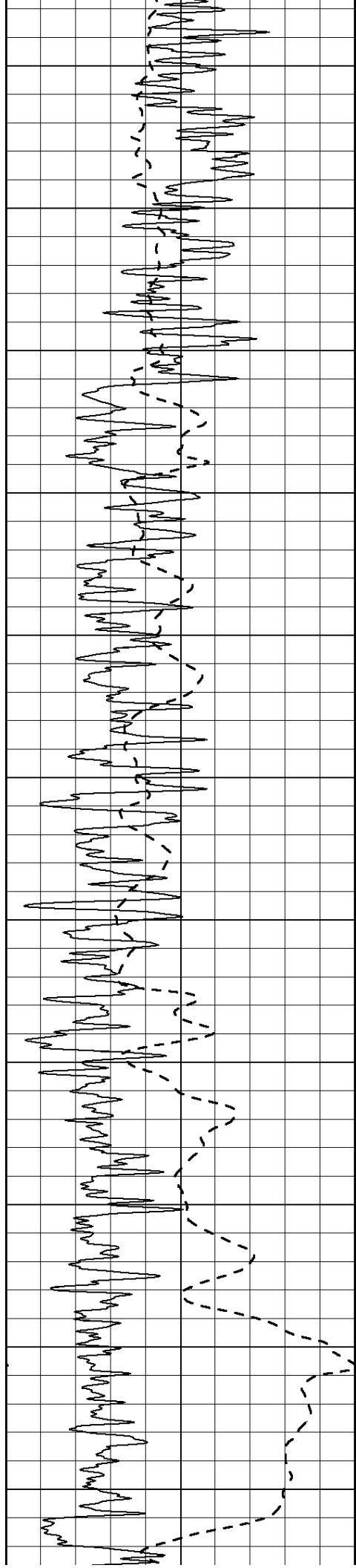
Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50	
-100	SP (mV)	100	0	Deep Induction (Ohm-m)	50	
-----			-----			
			1000		CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500	
			50	RLL3 X10 (Ohm-m)	500	
-----			-----			

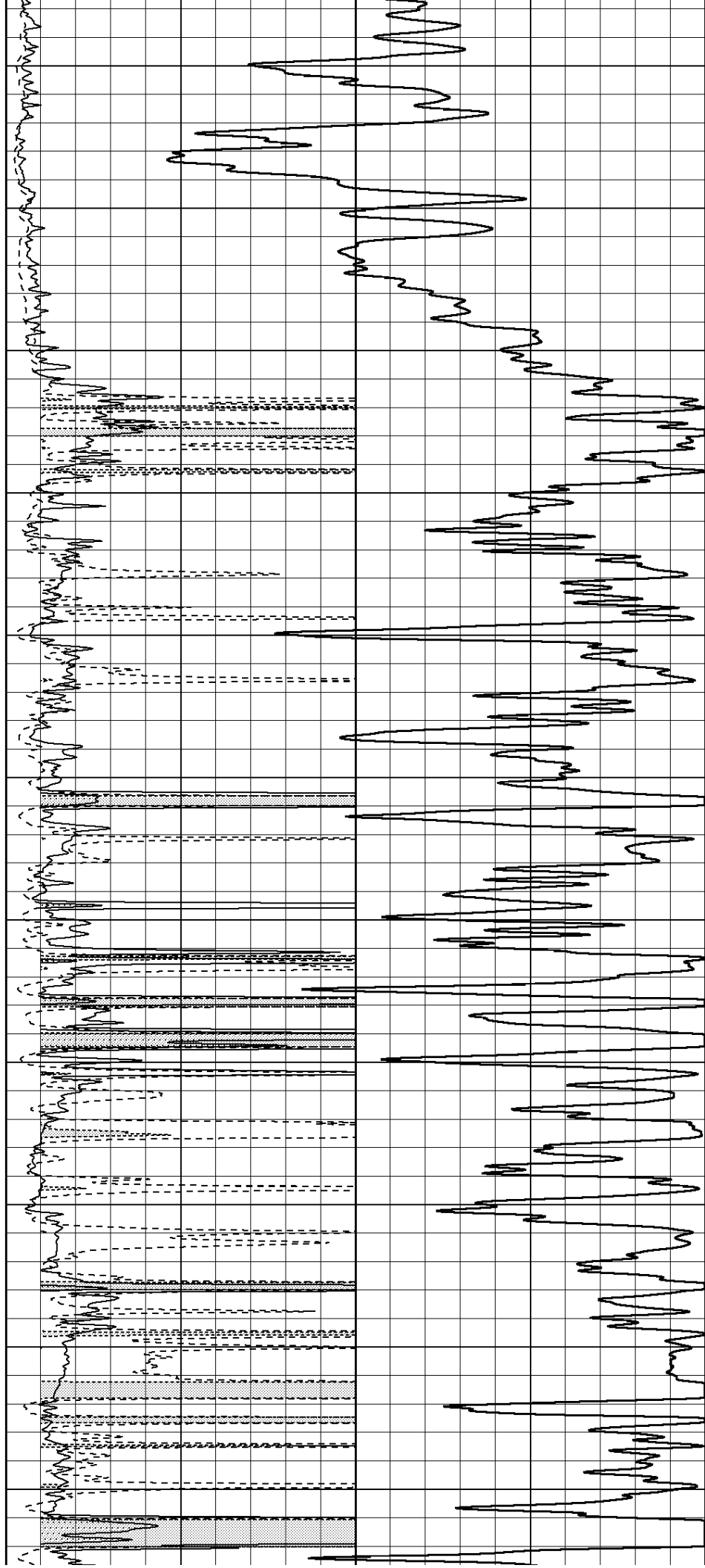


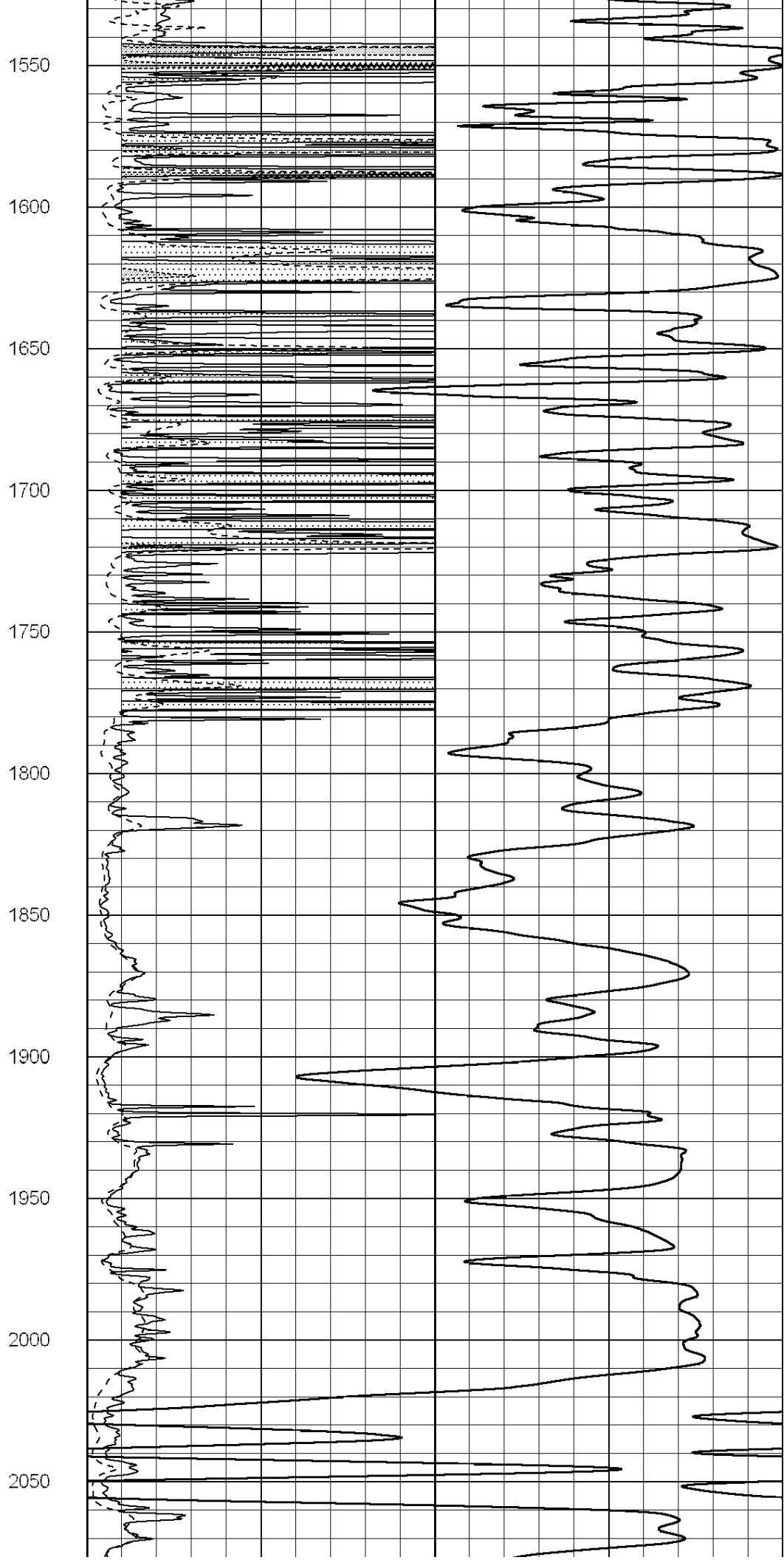
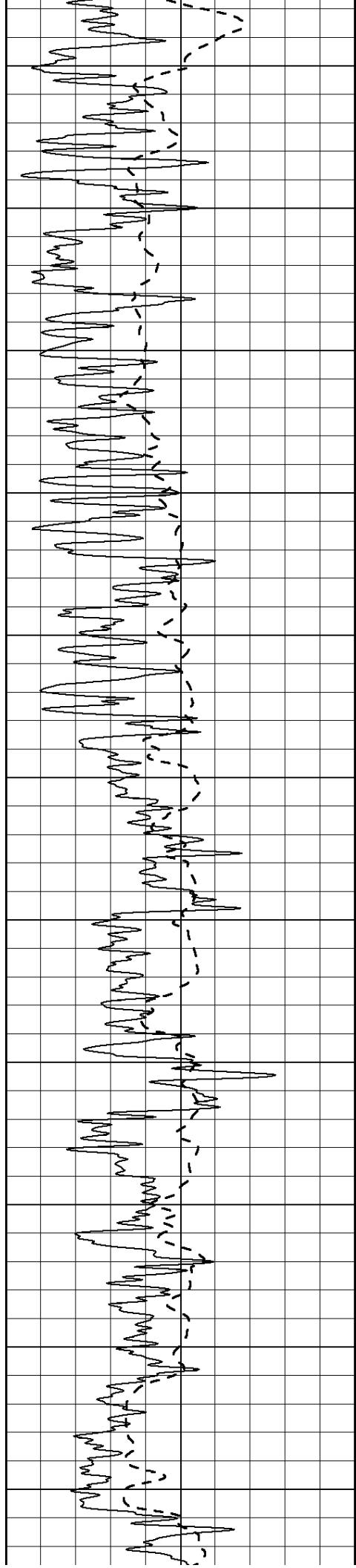
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900
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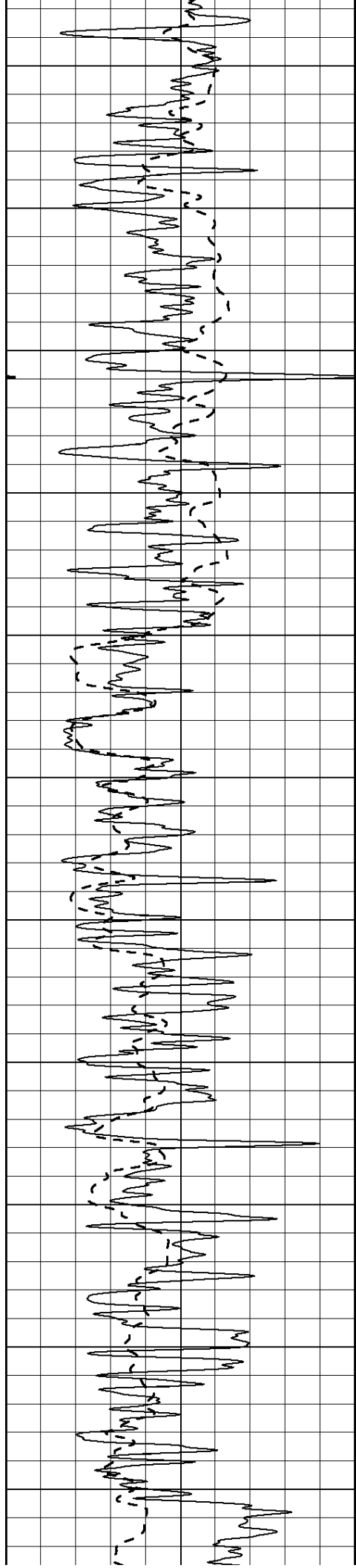




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1050
1100
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1200
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1300
1350
1400
1450
1500







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2150

2200

2250

2300

2350

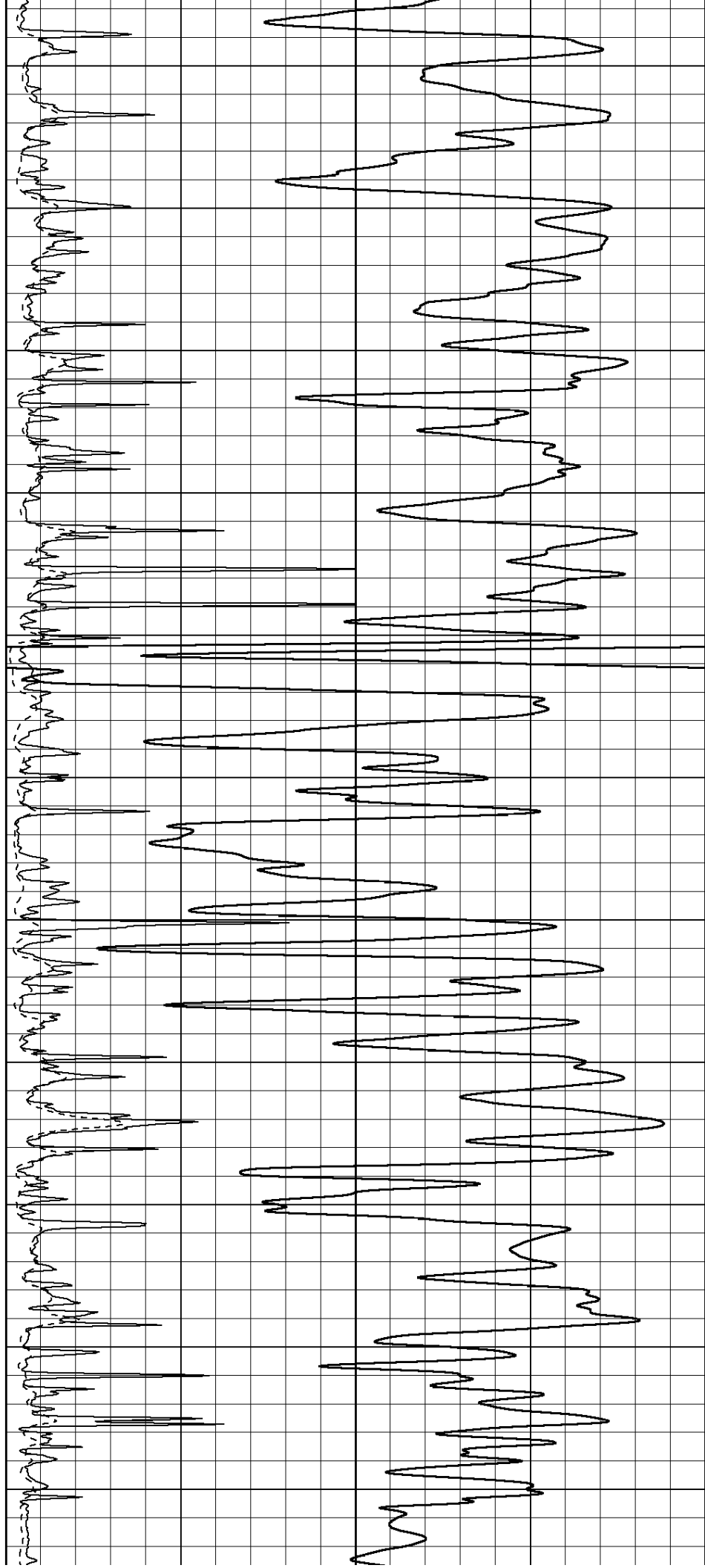
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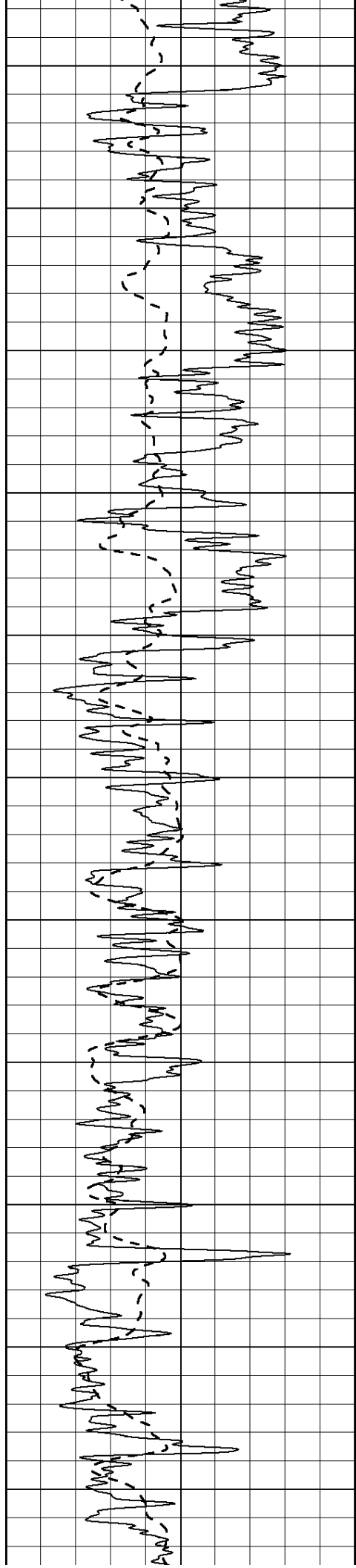
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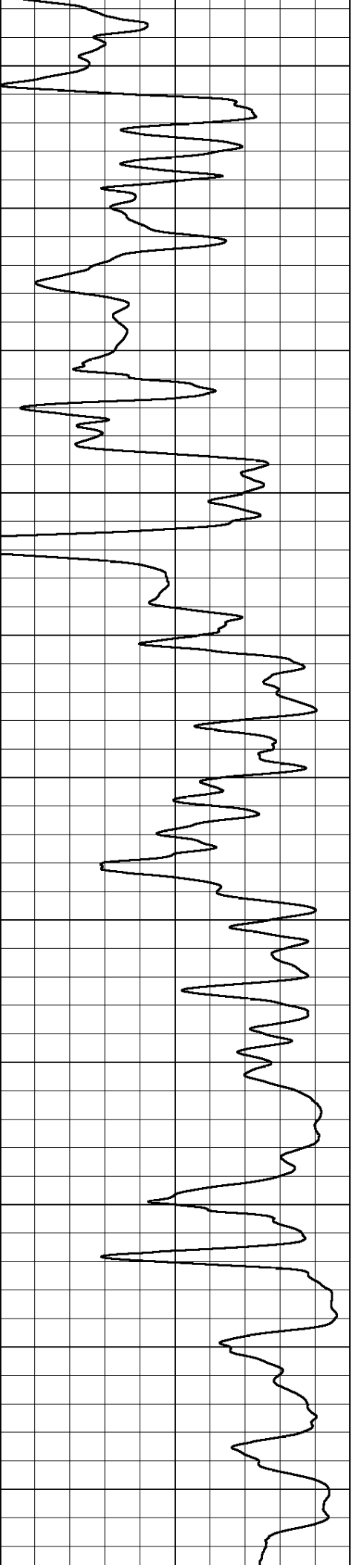
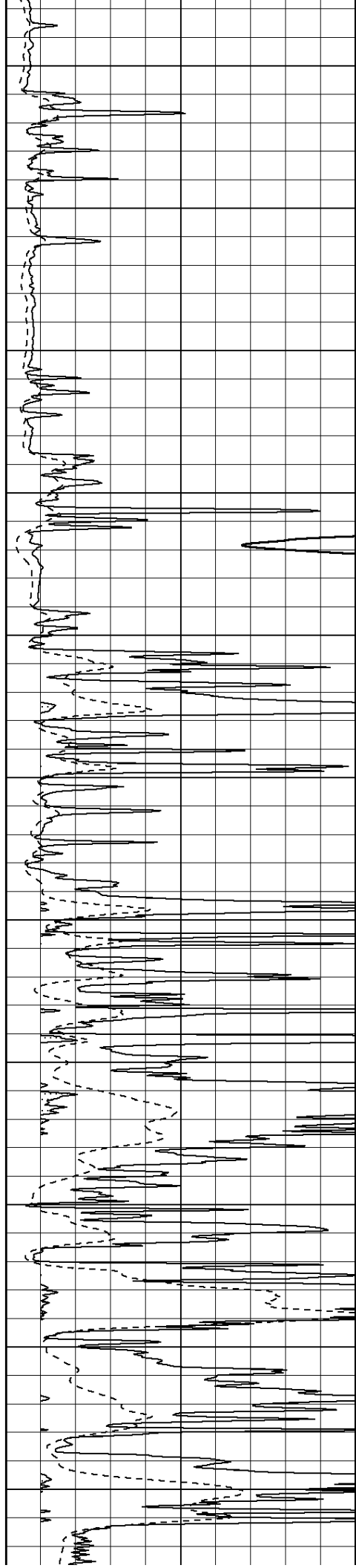
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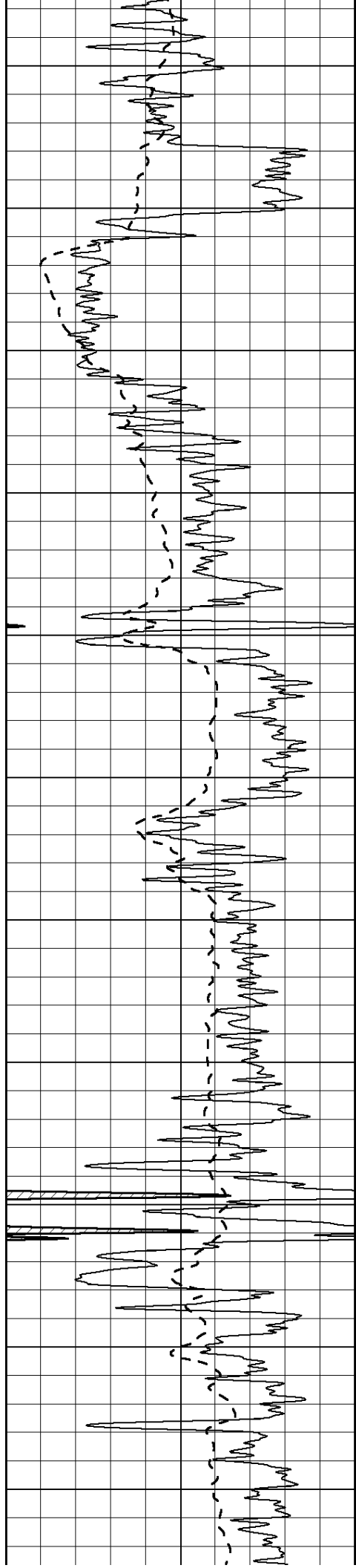
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3100
3150





3200

3250

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3350

3400

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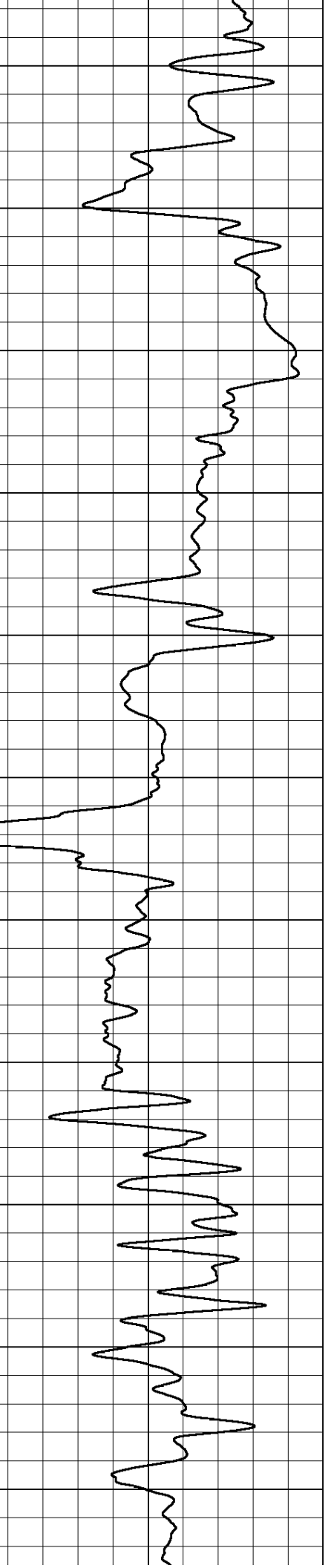
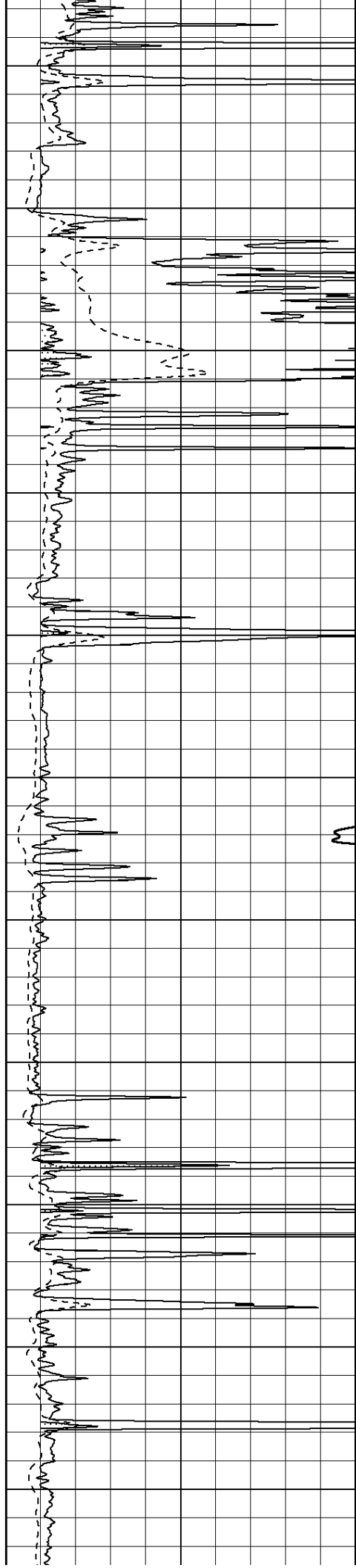
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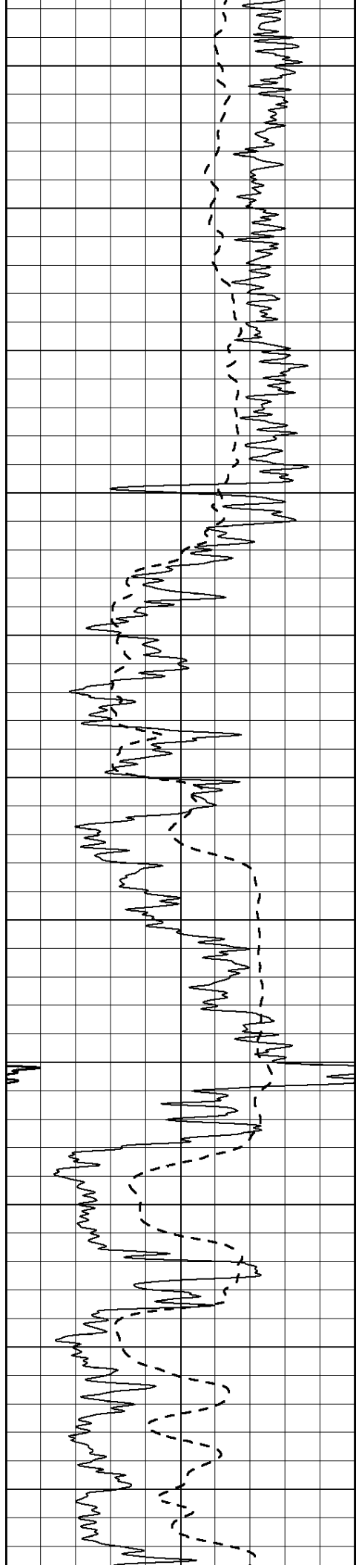
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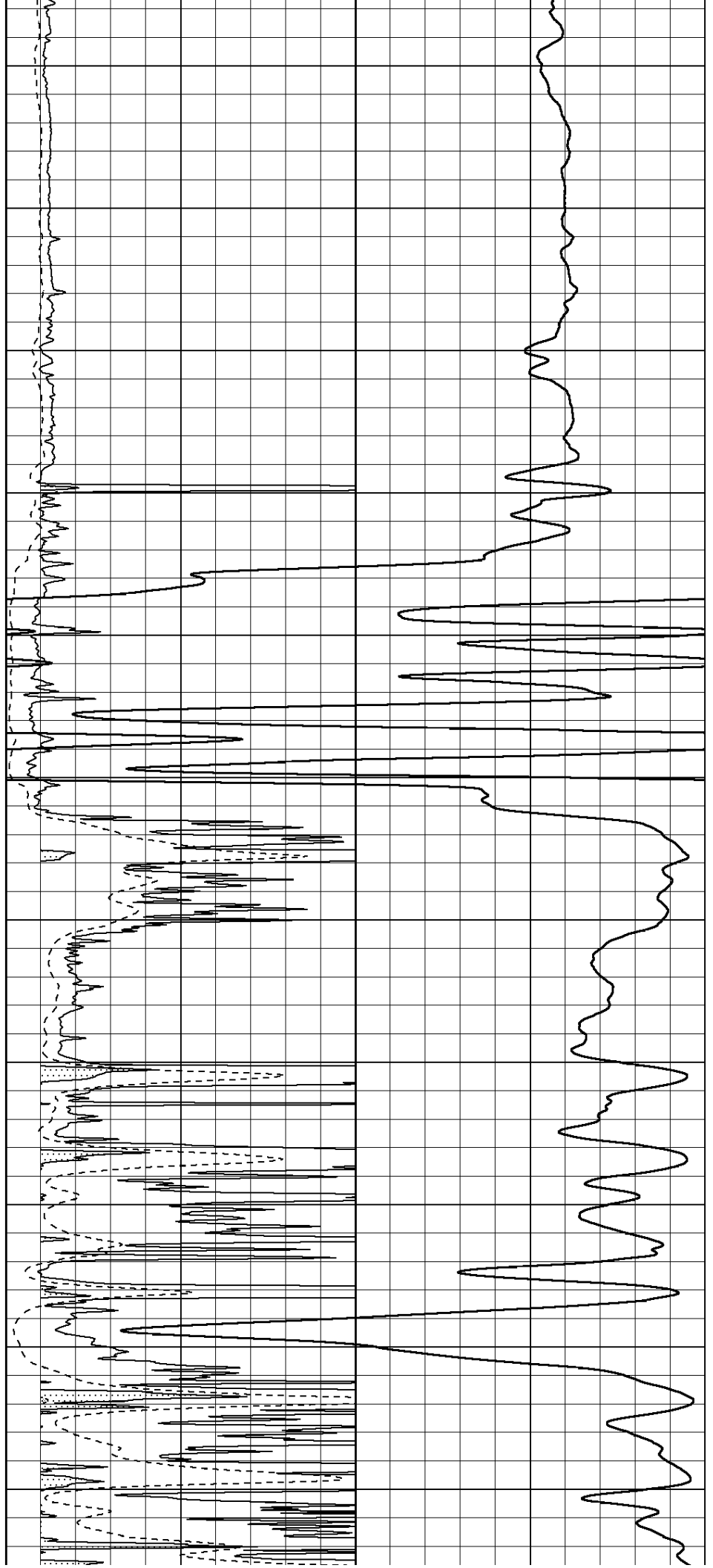
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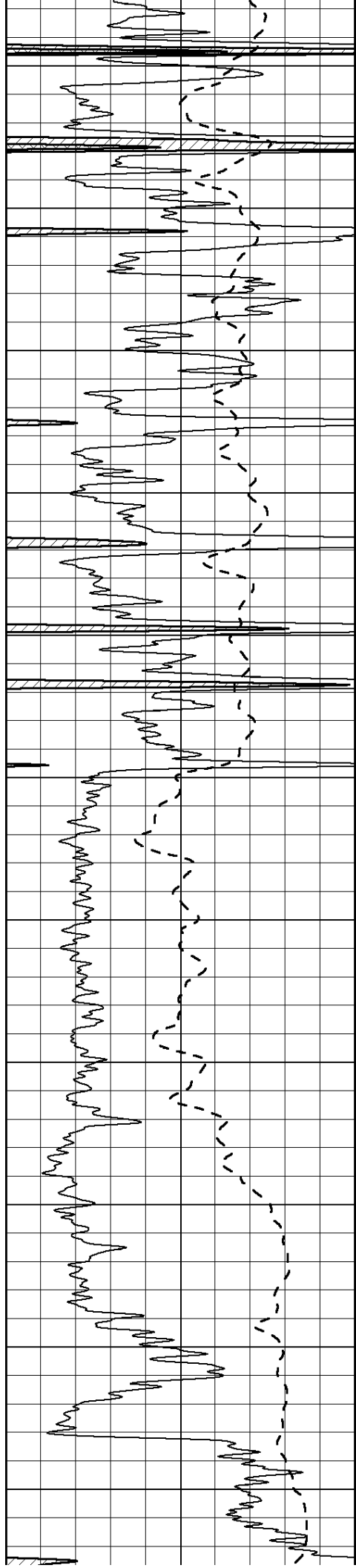
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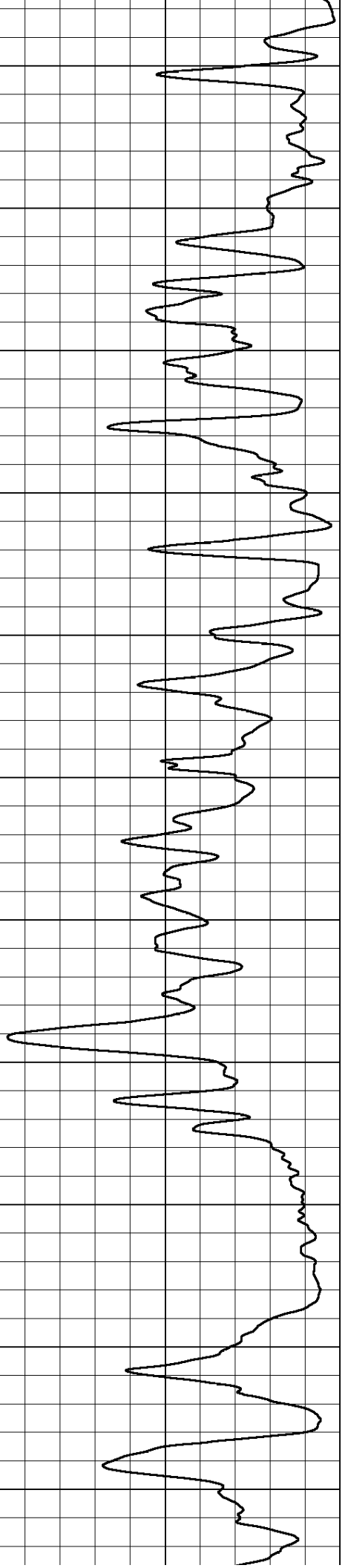
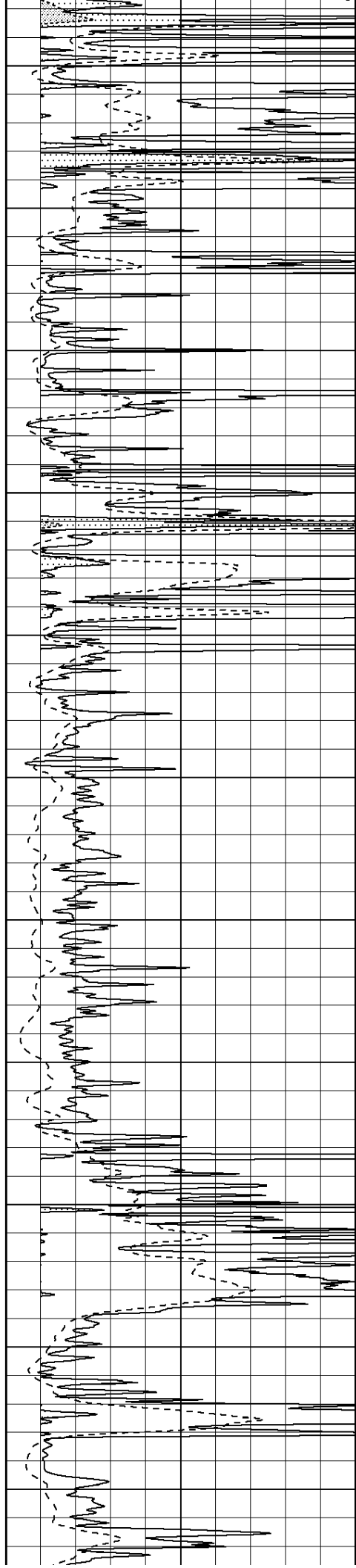
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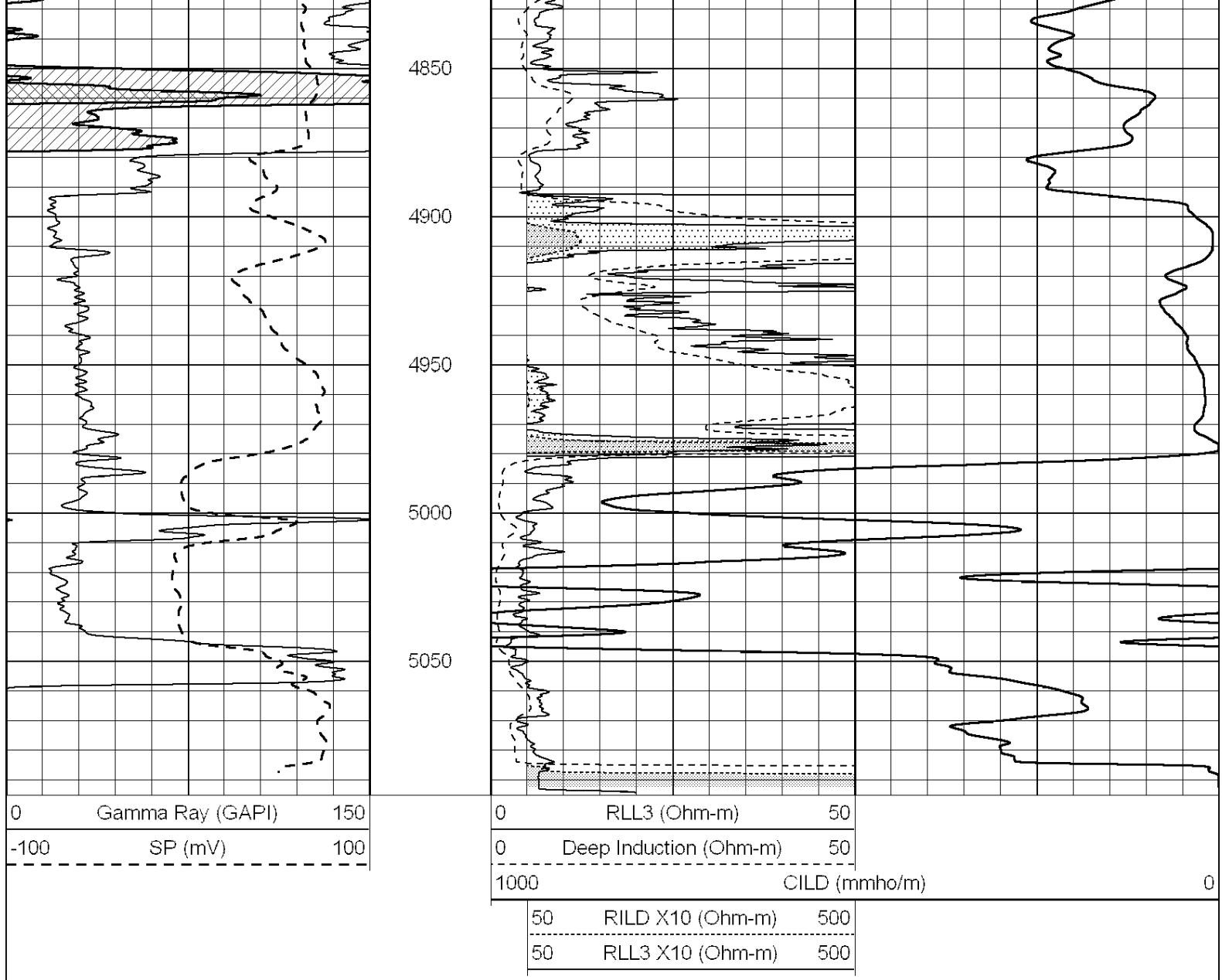
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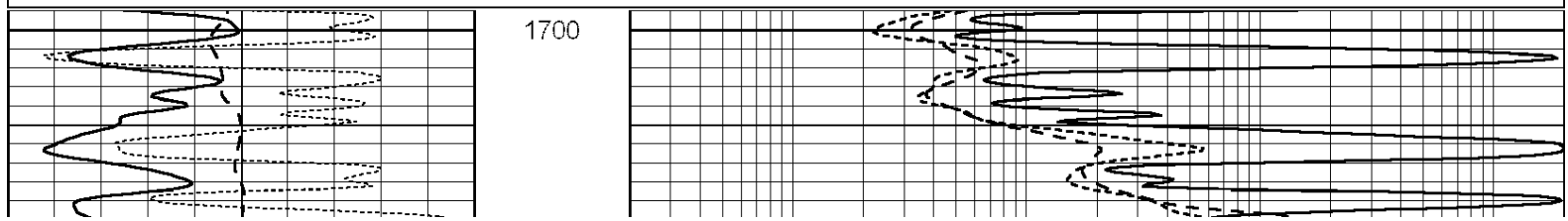


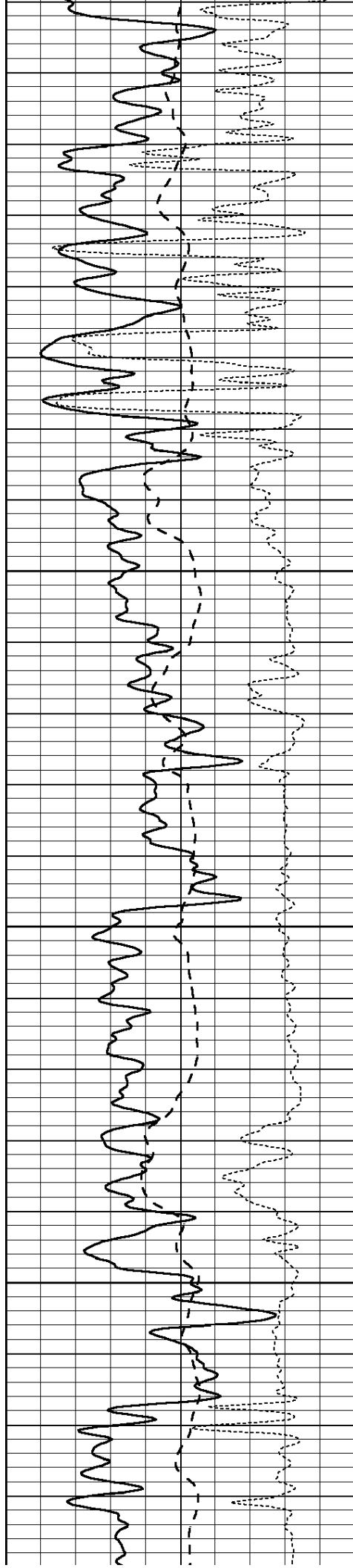
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MAIN SECTION

Database File: 011255pe.db
Dataset Pathname: pass3.1
Presentation Format: _dil
Dataset Creation: Fri Jun 14 18:35:04 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



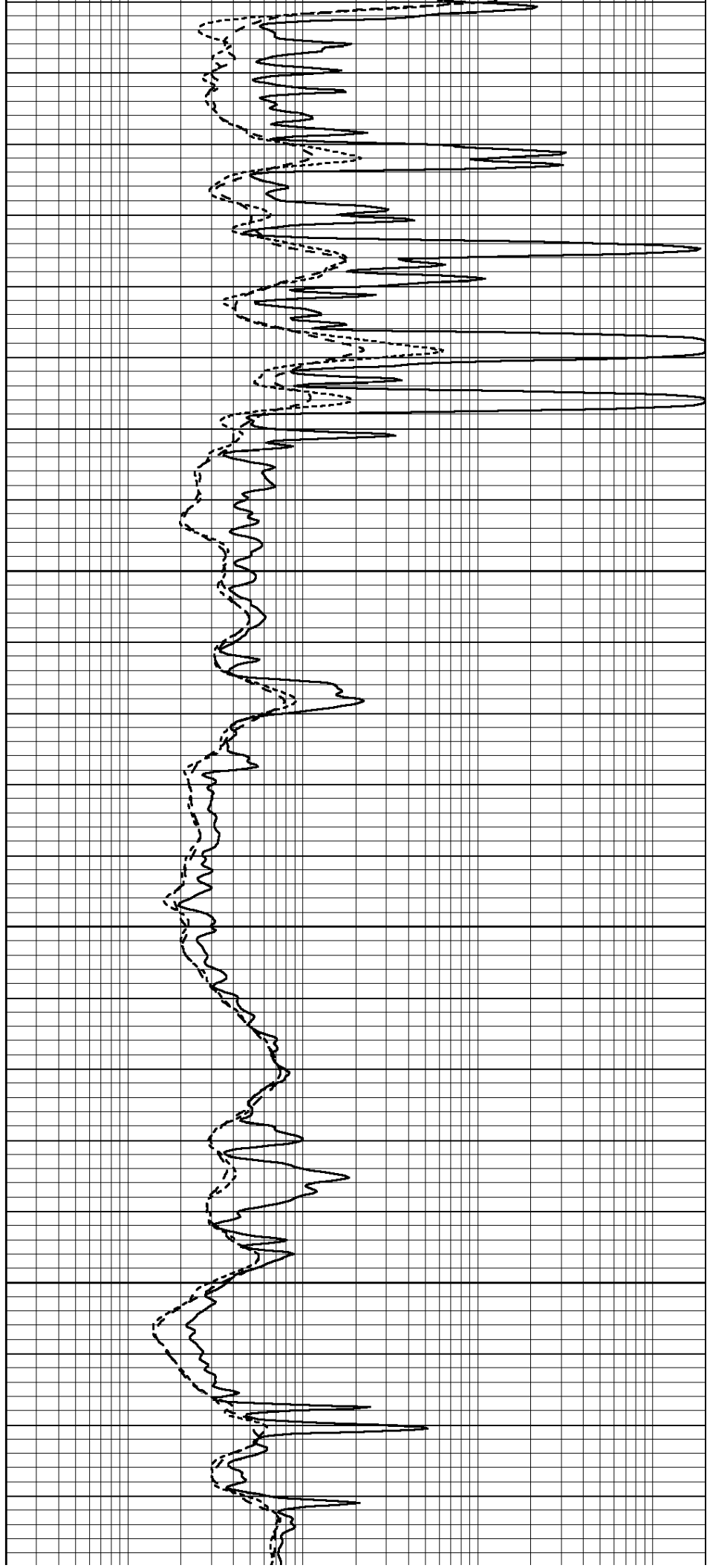


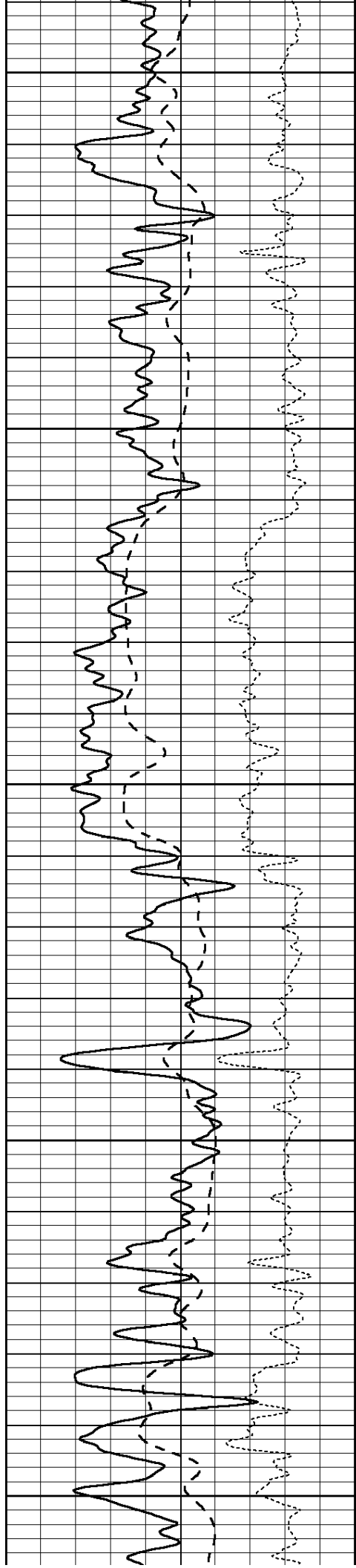
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1850

1900





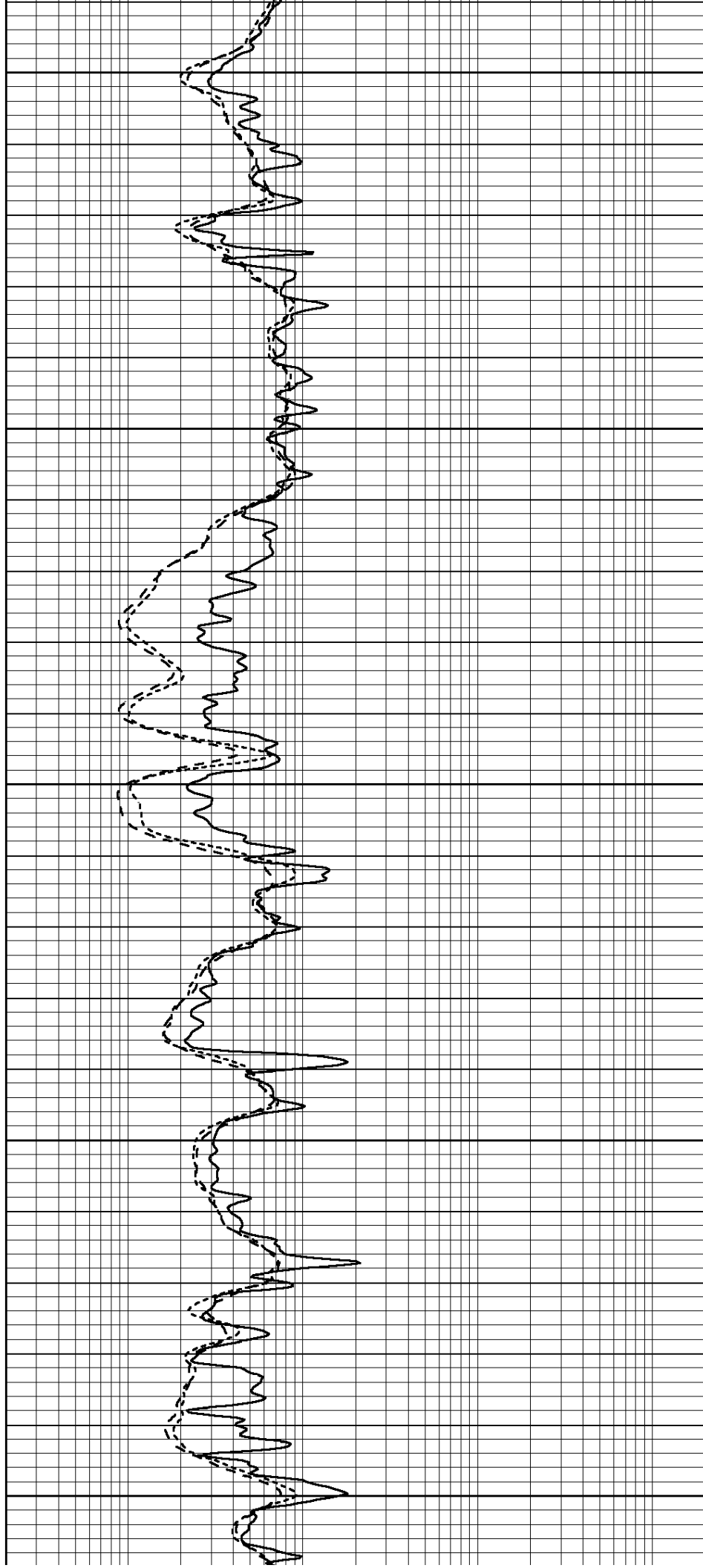
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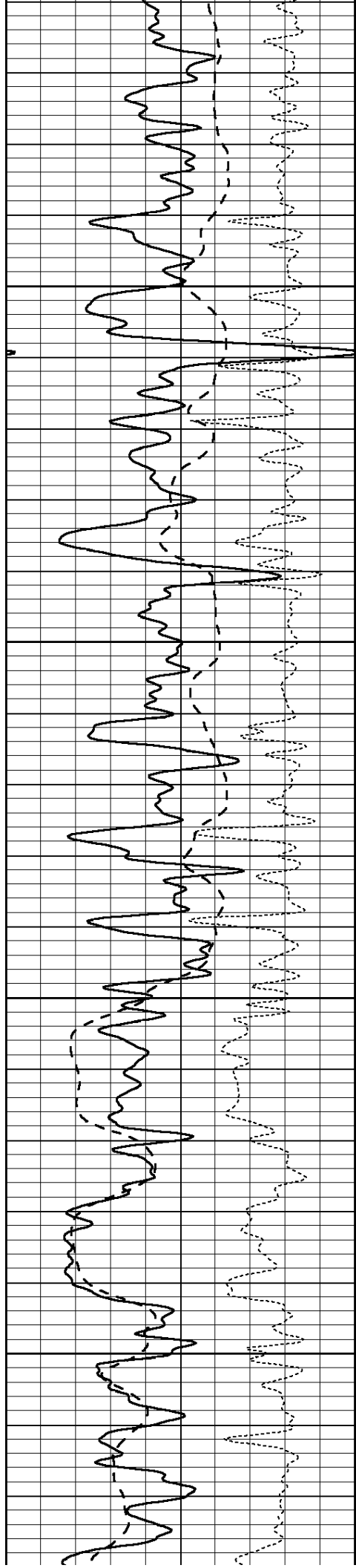
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2100

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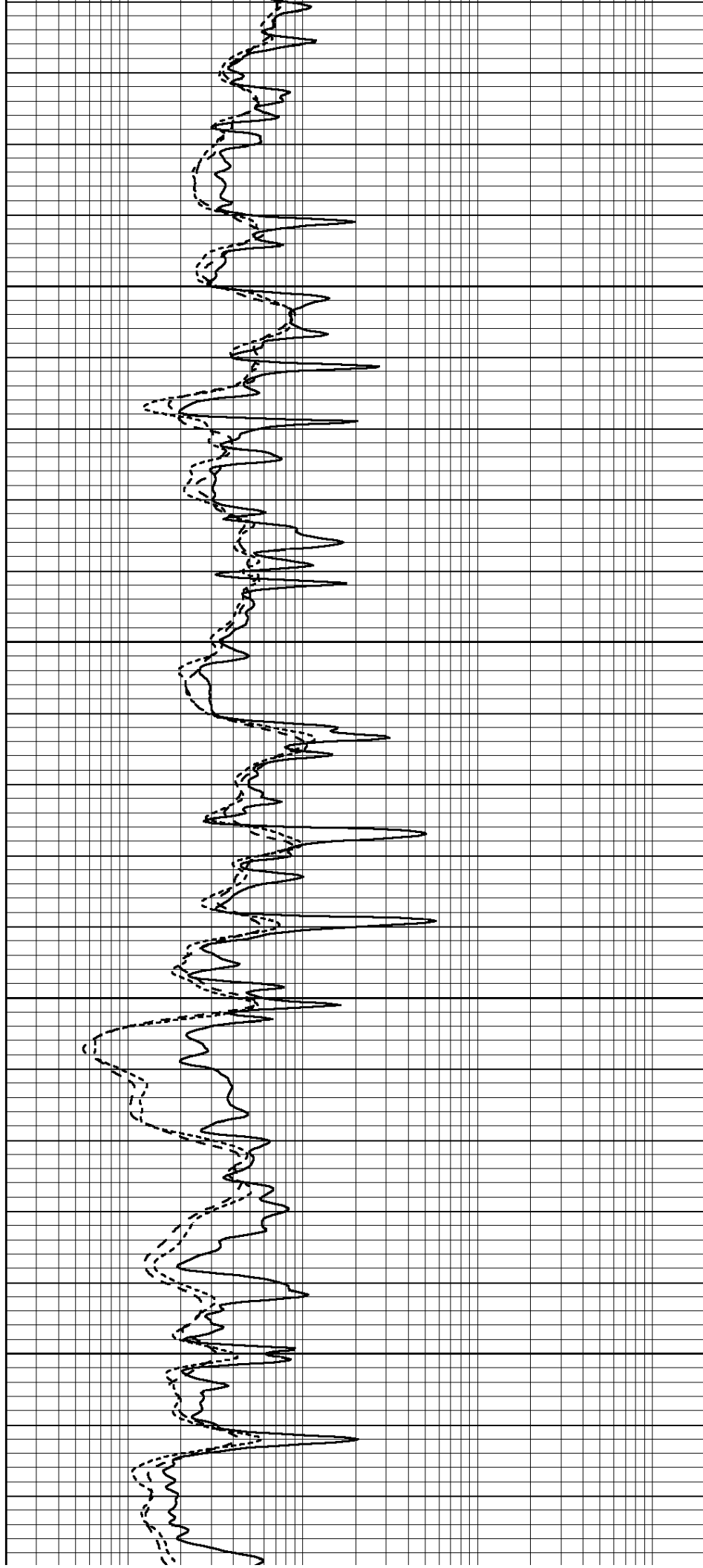


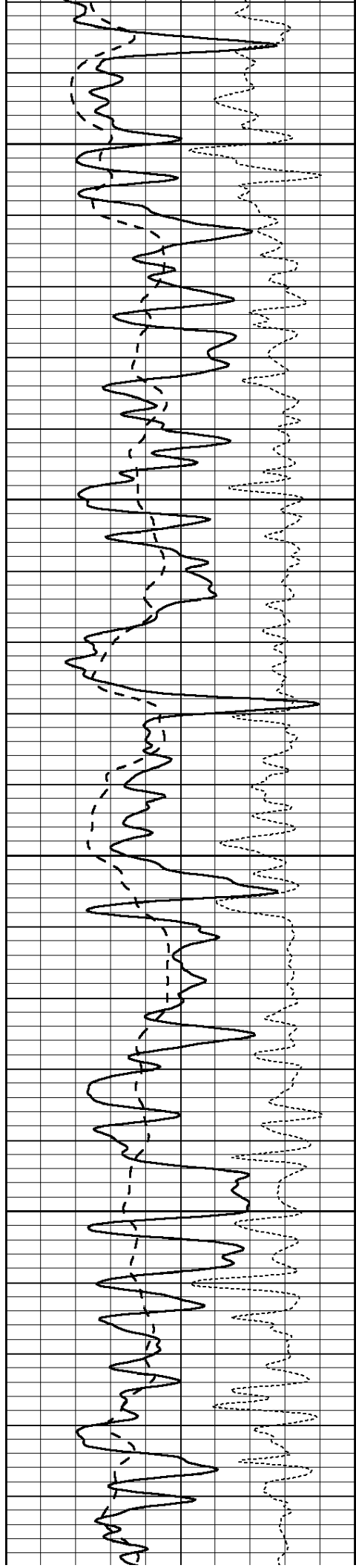
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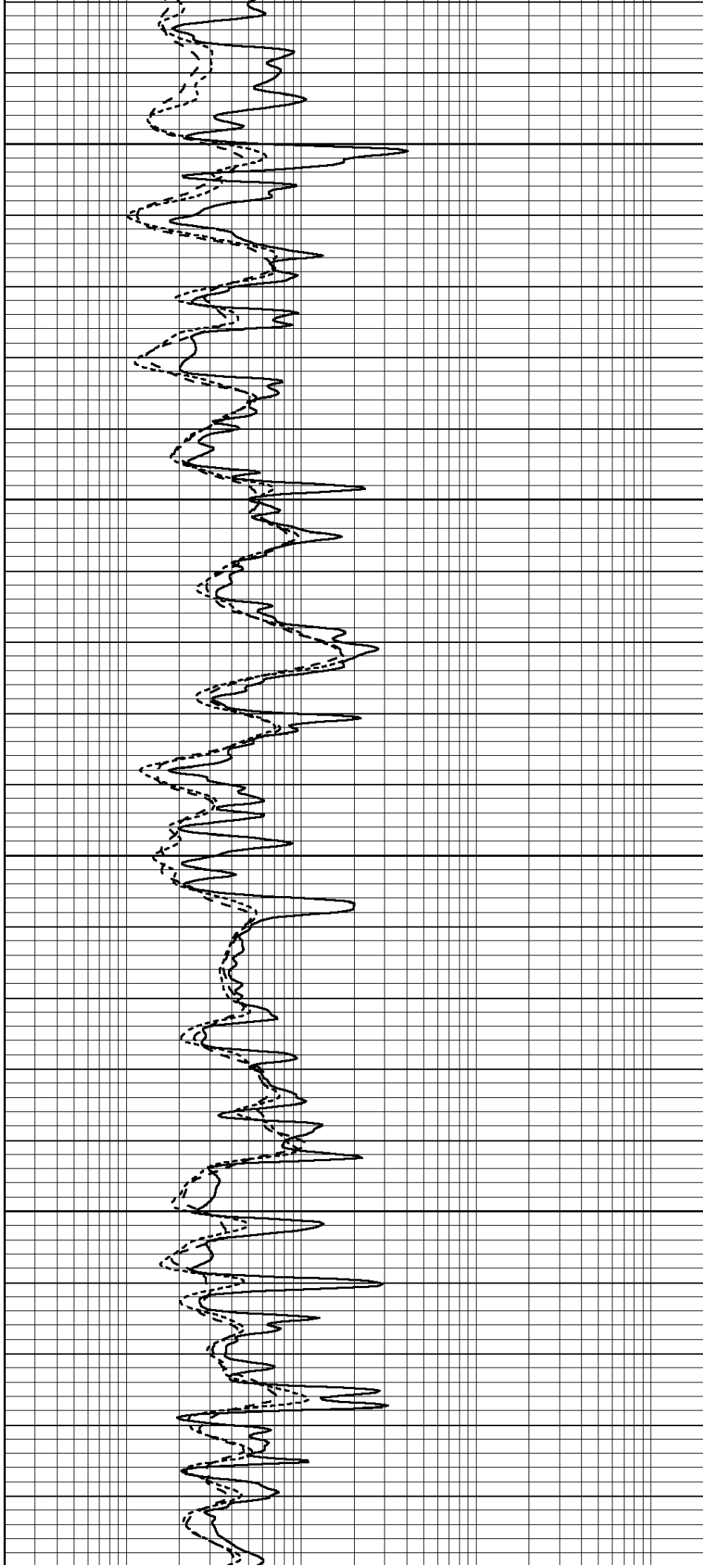
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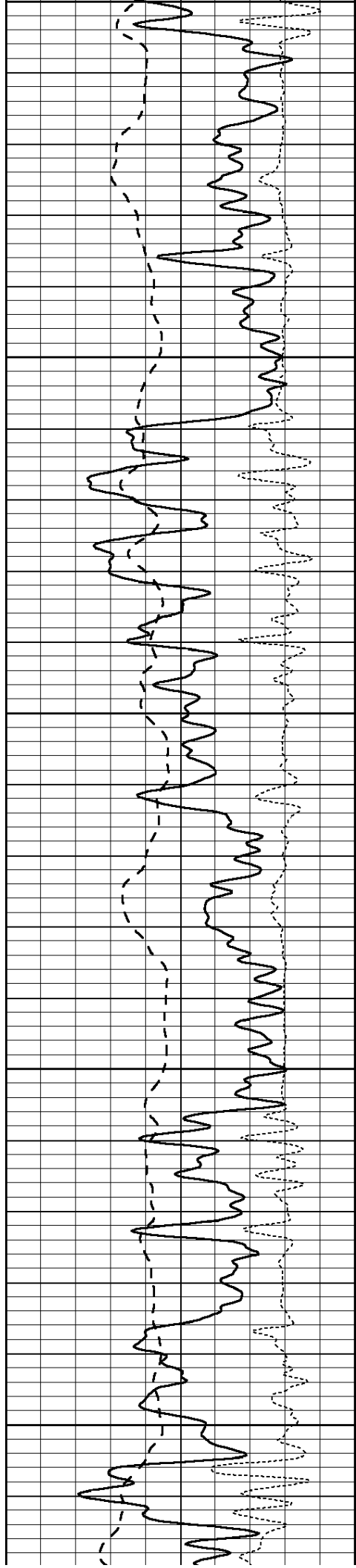
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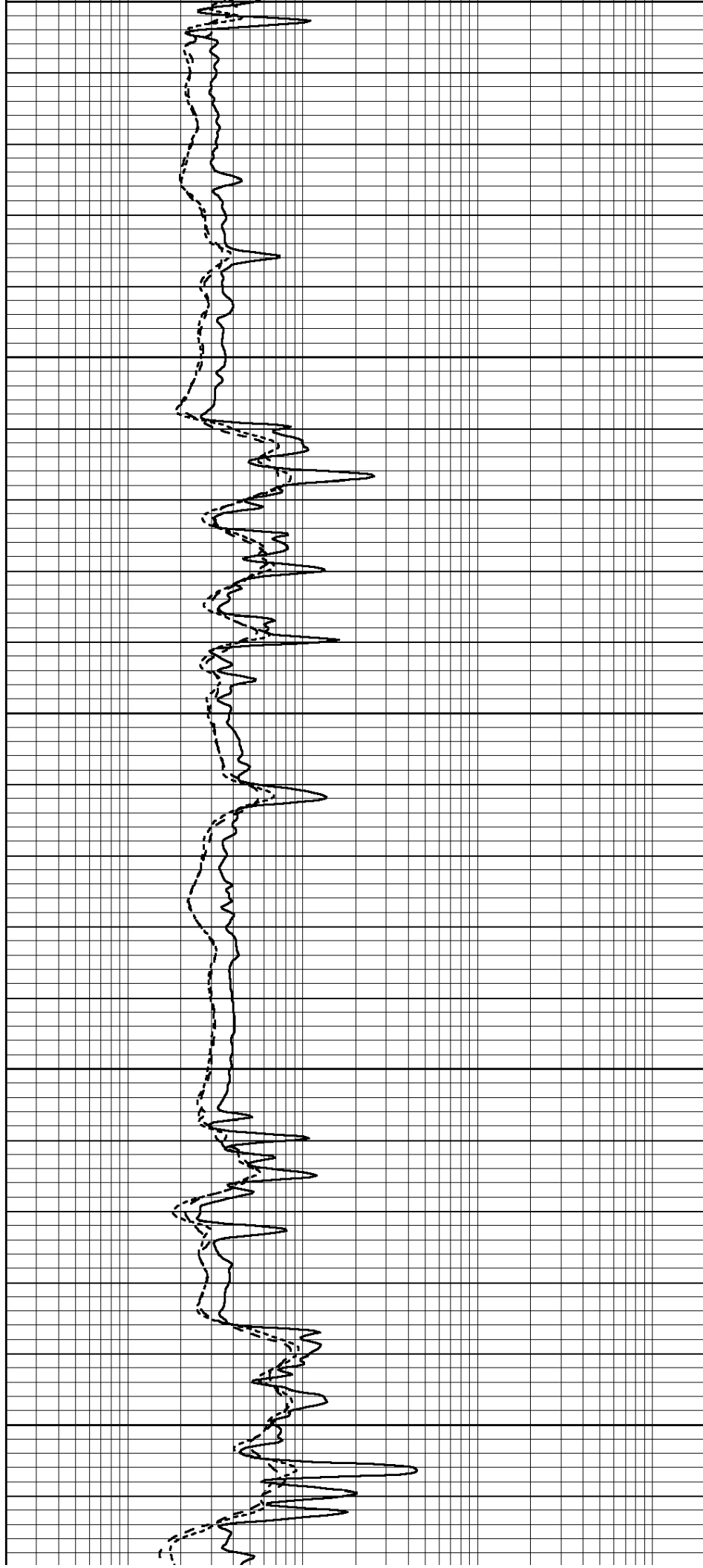
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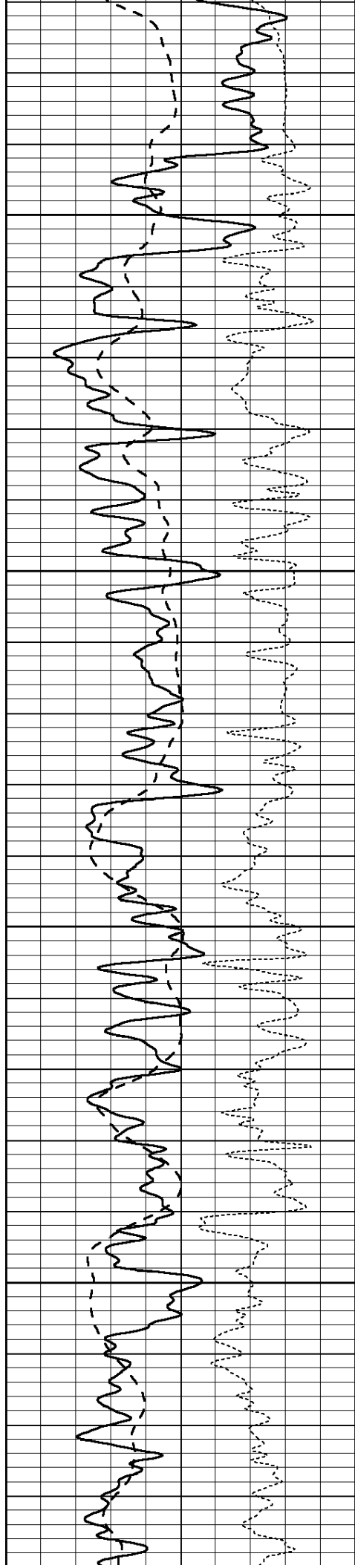
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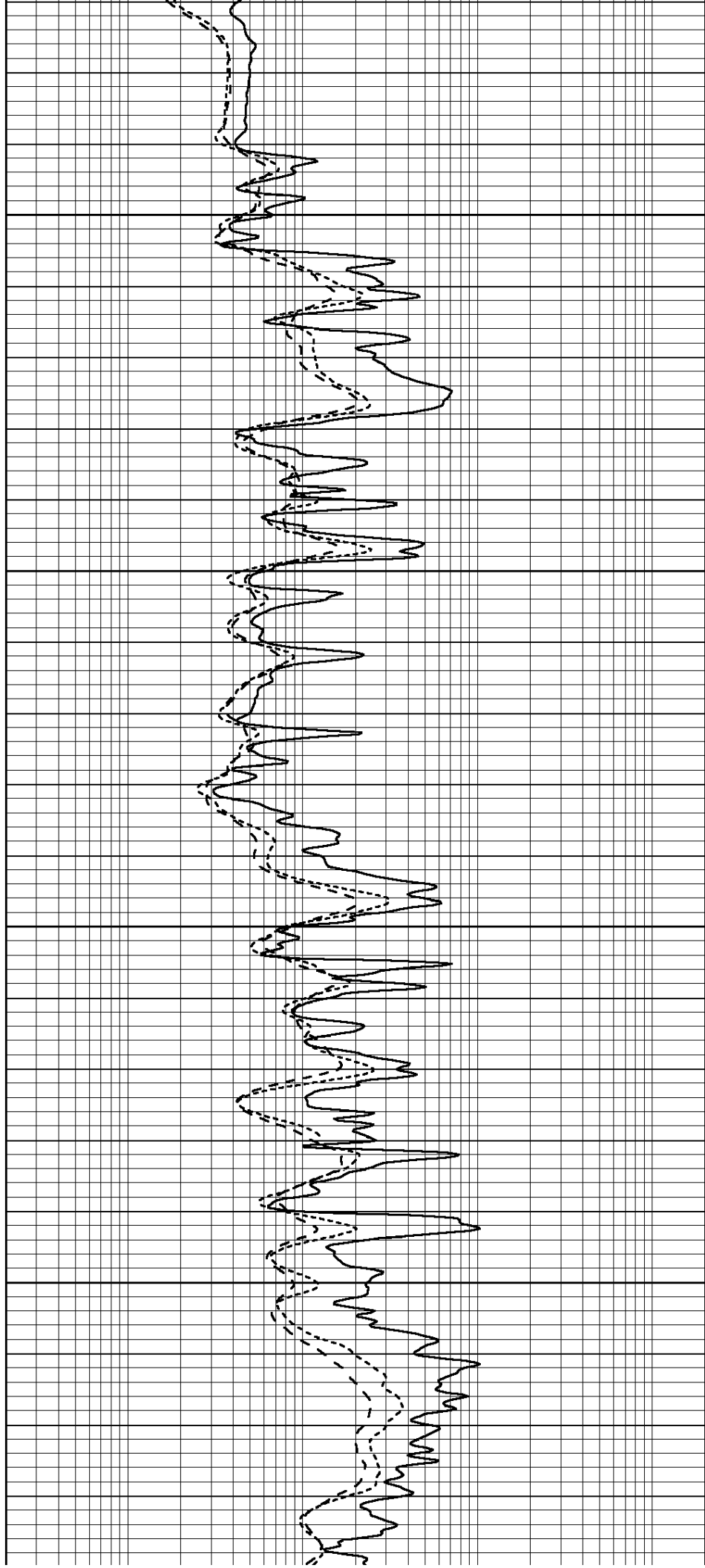


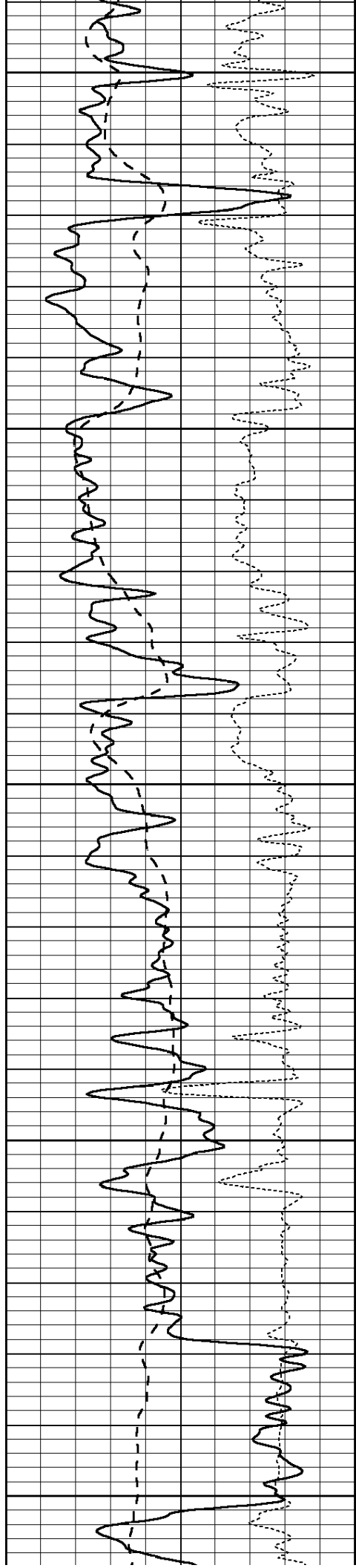
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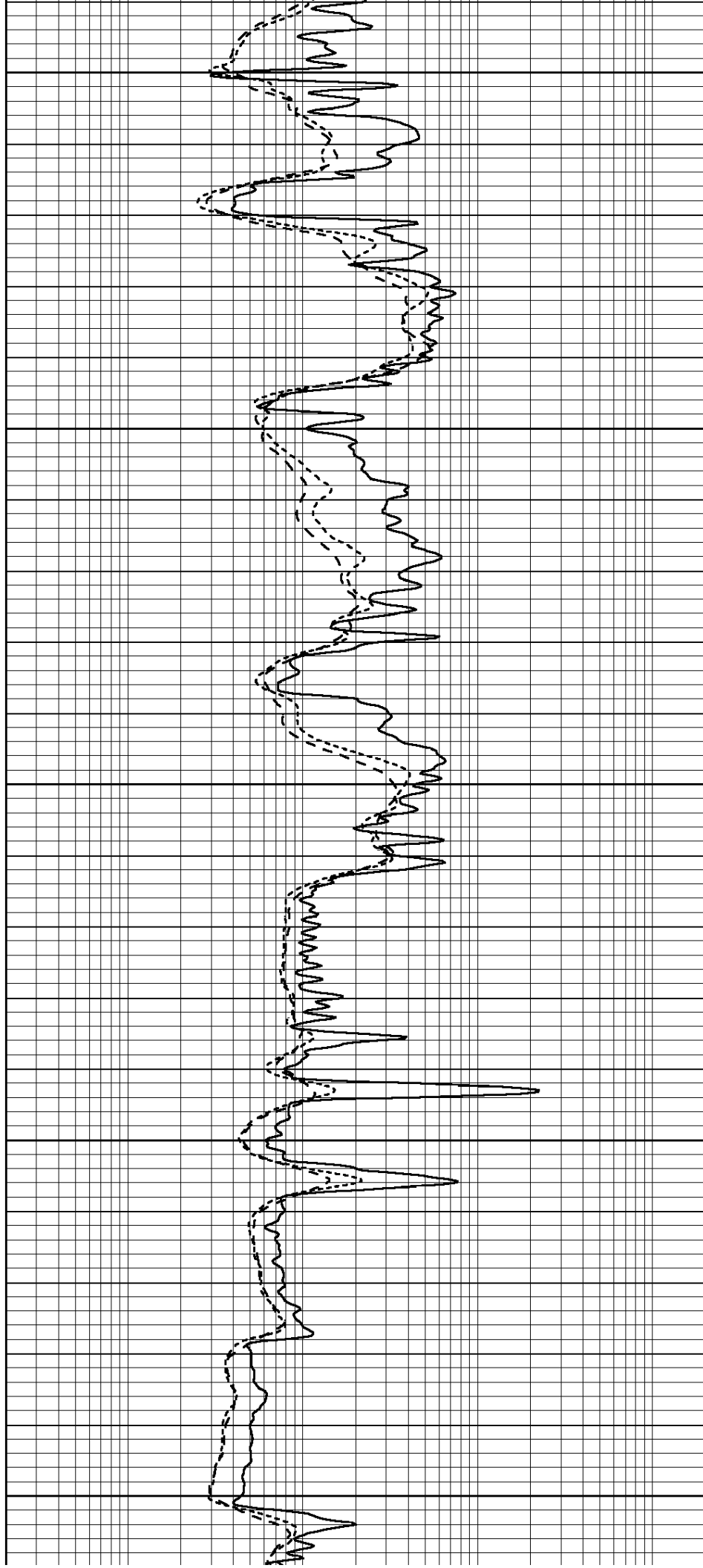
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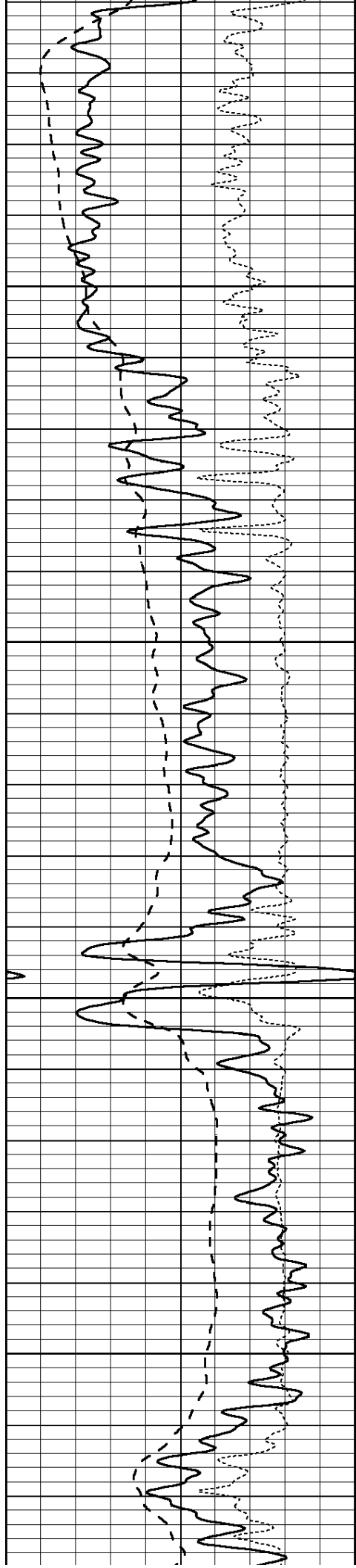
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3150

3200

3250



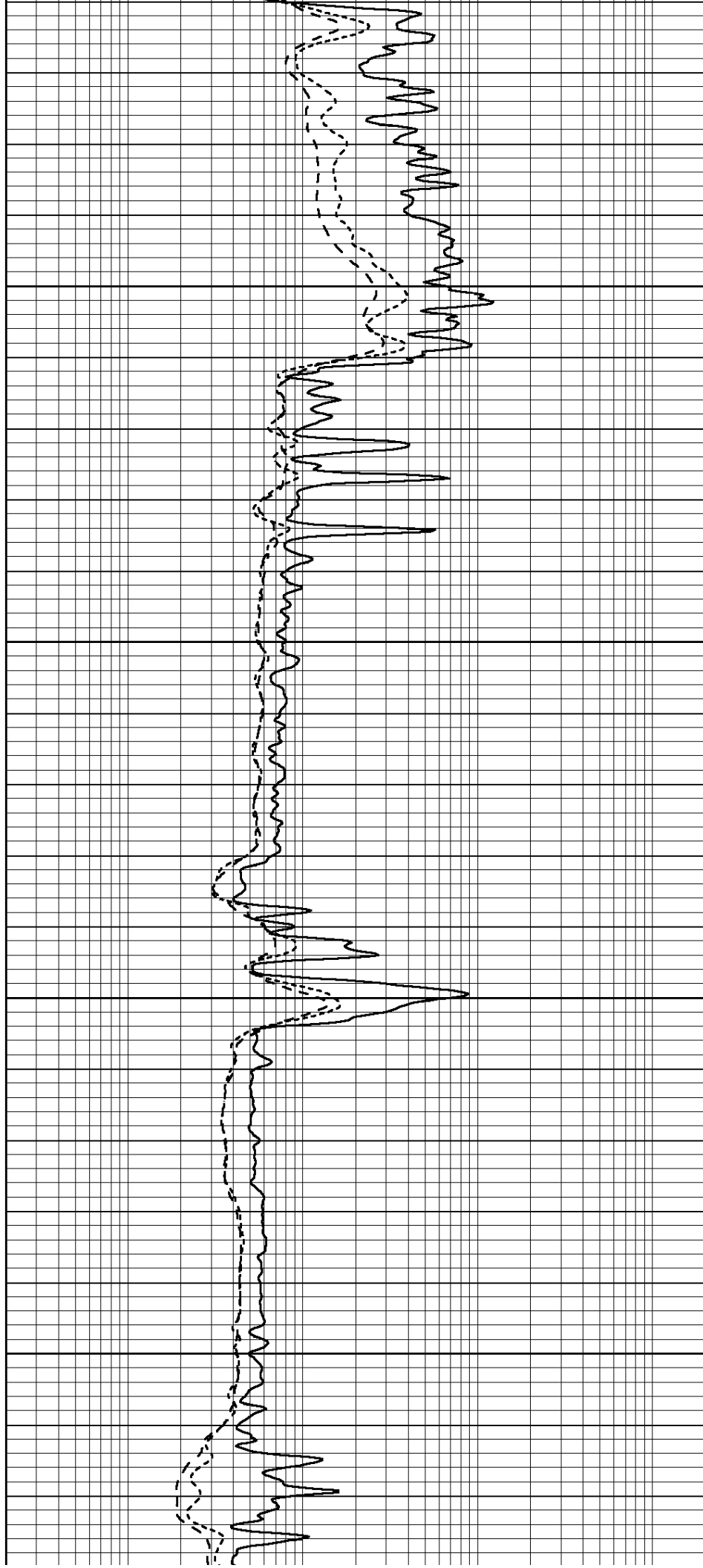


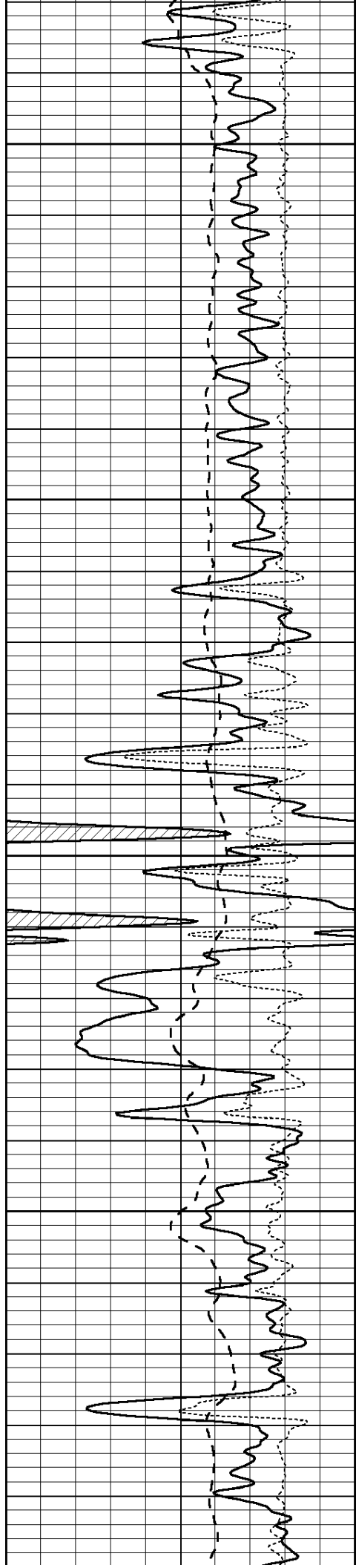
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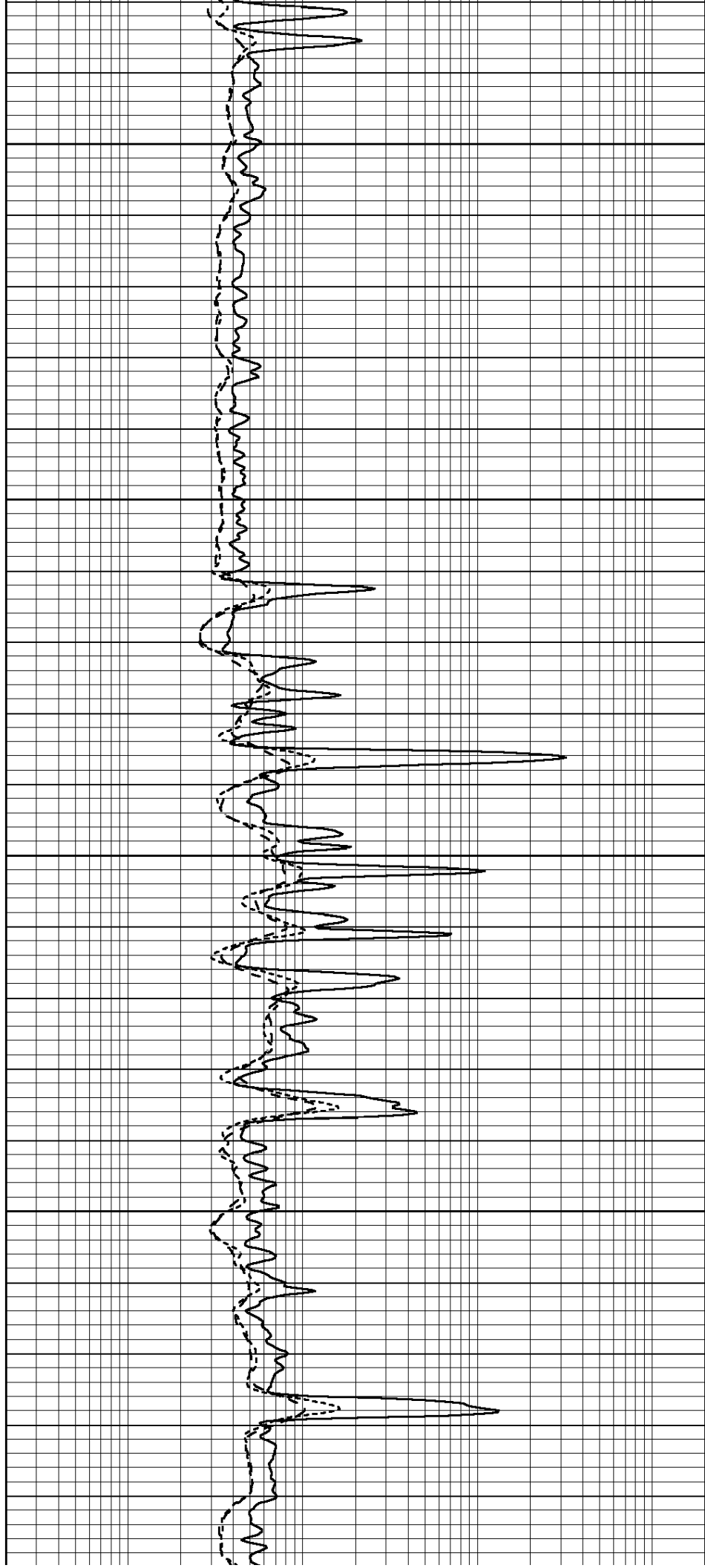


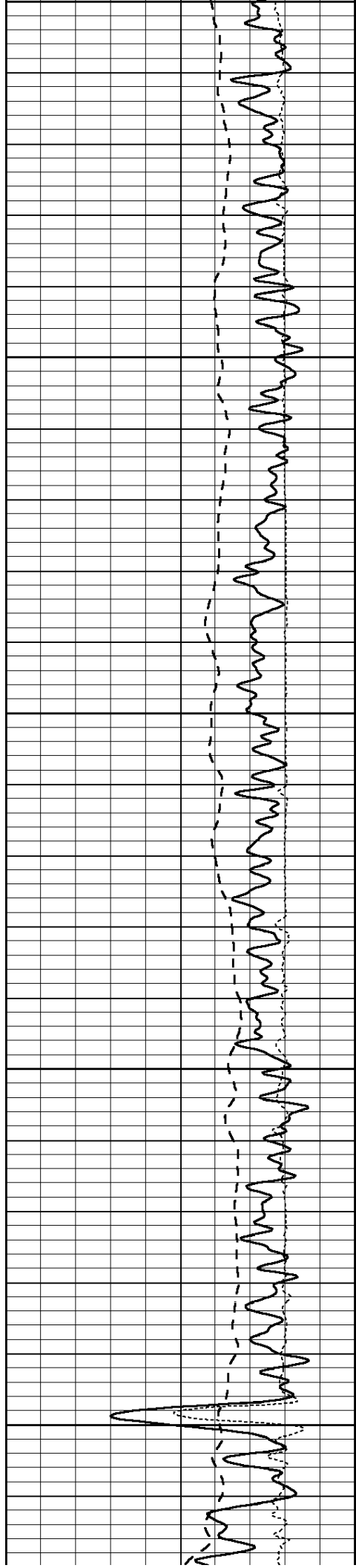
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3650





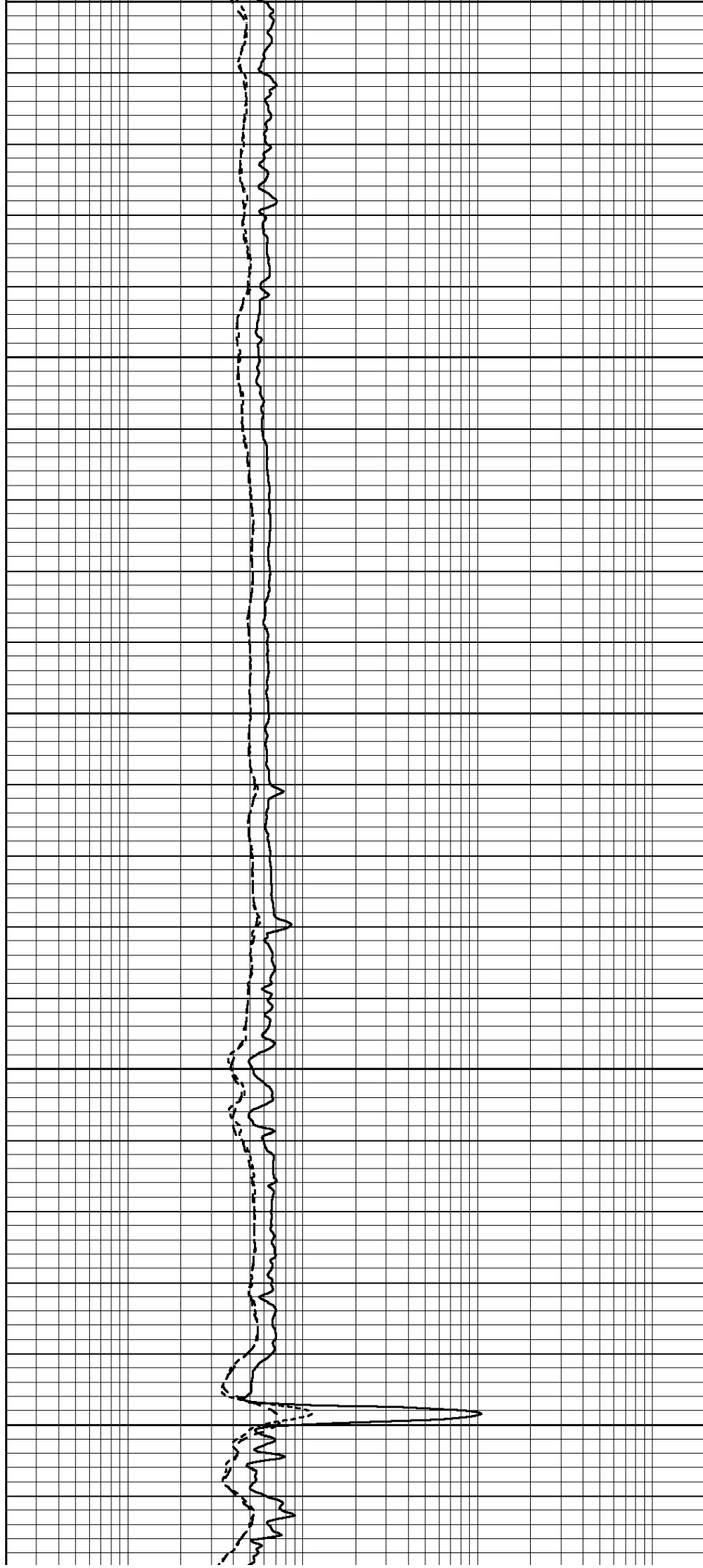
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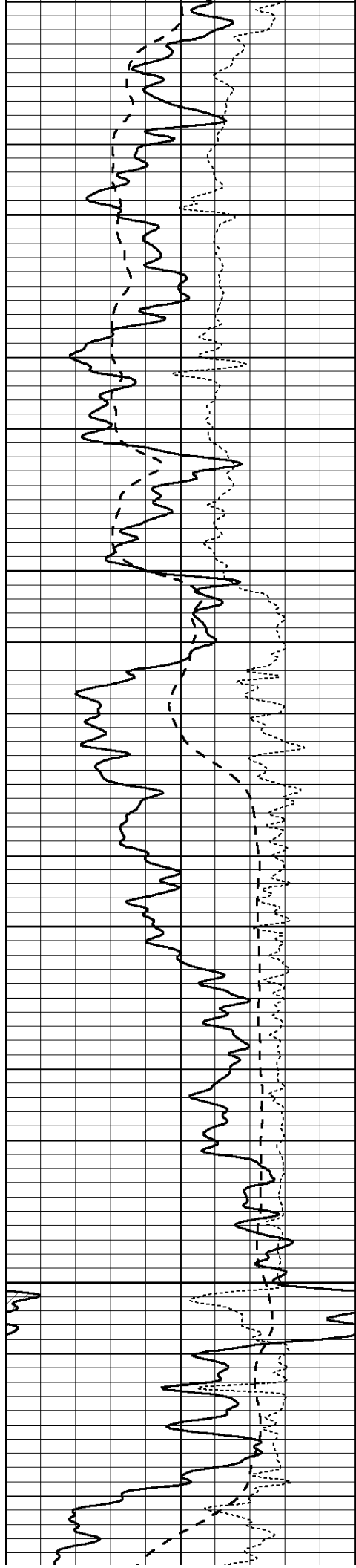
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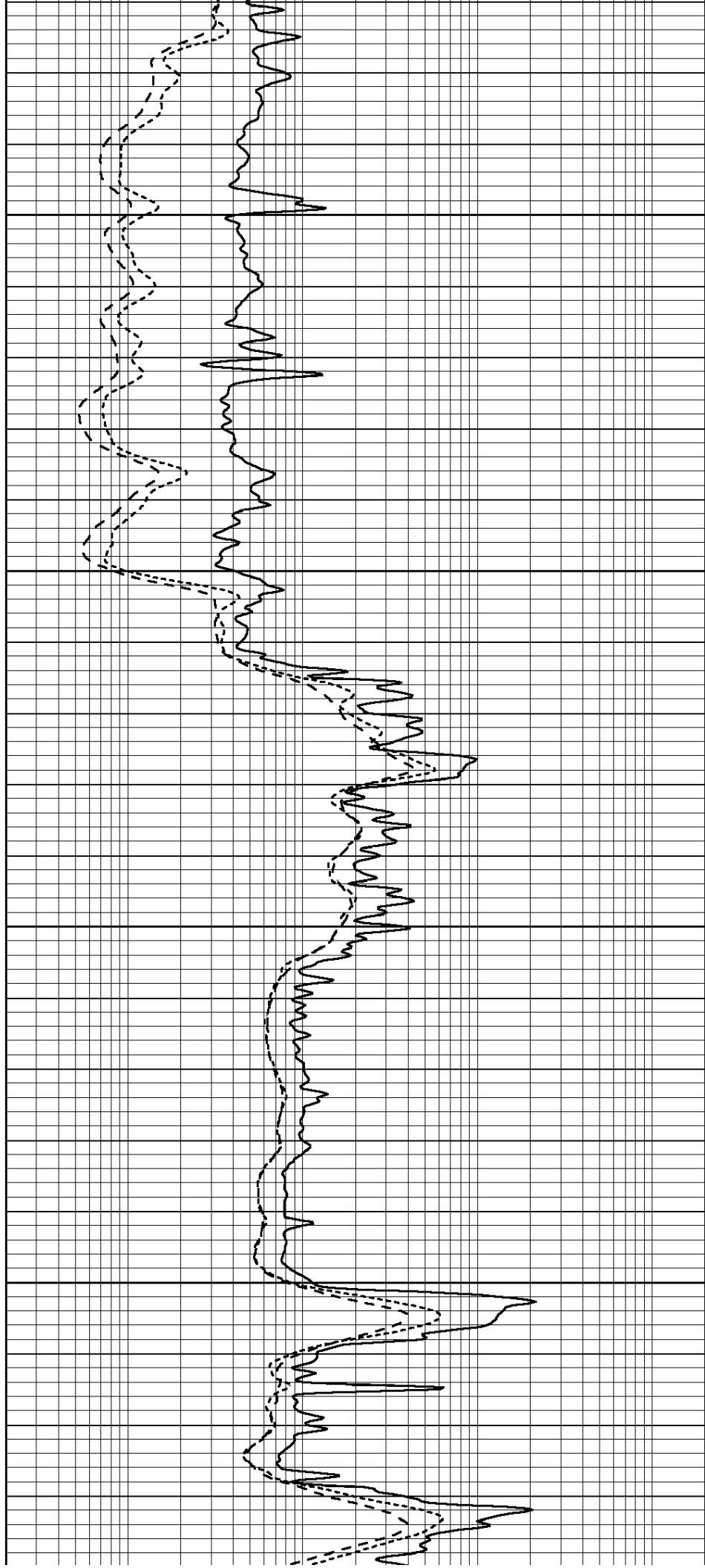


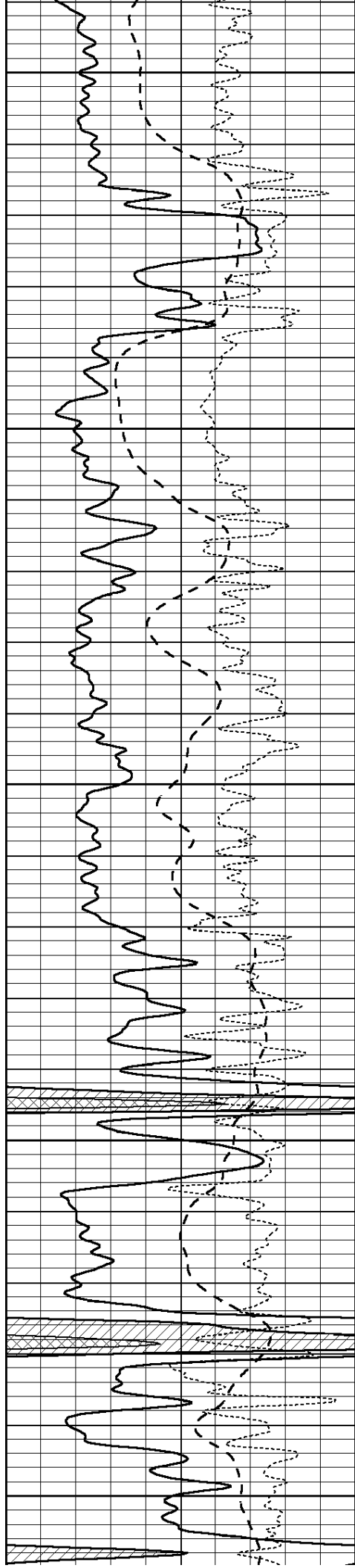
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4100





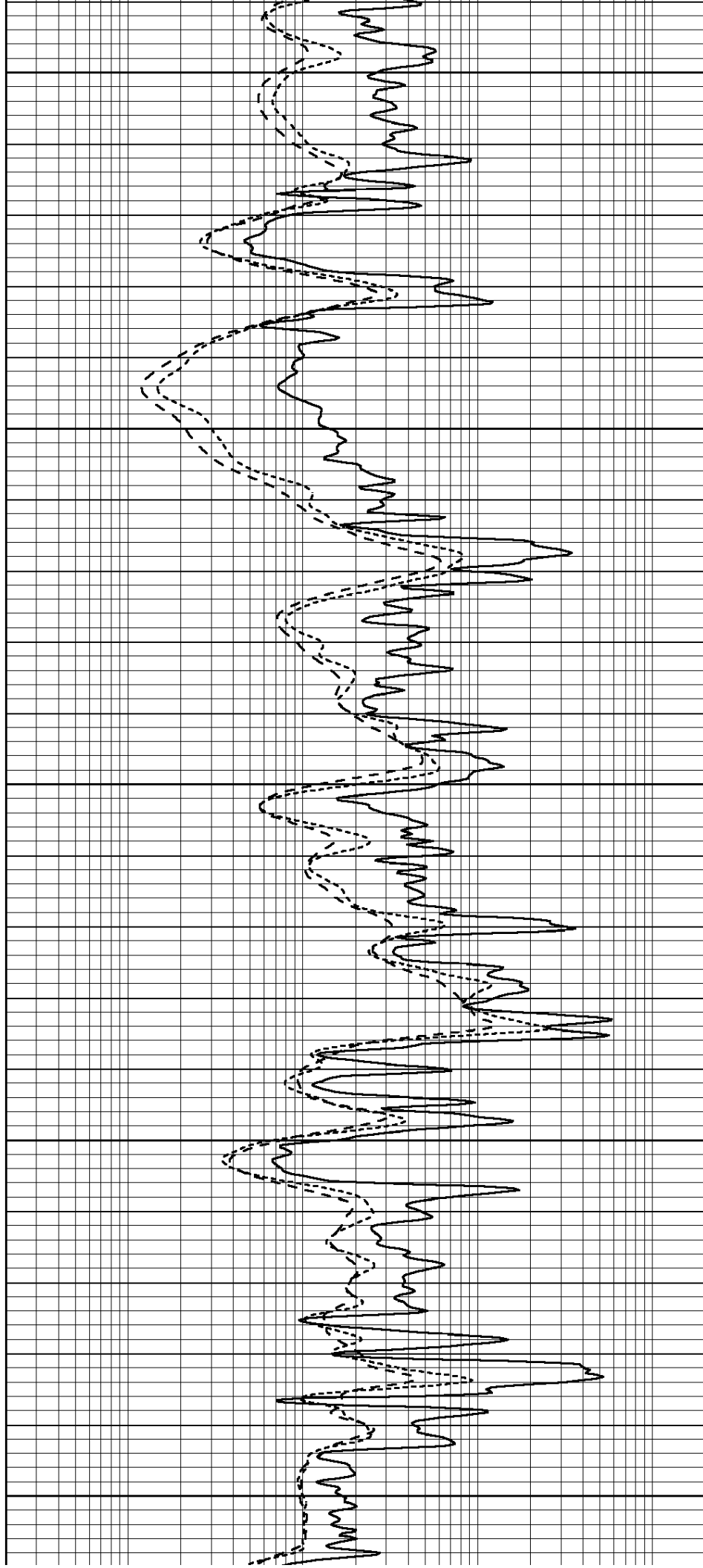
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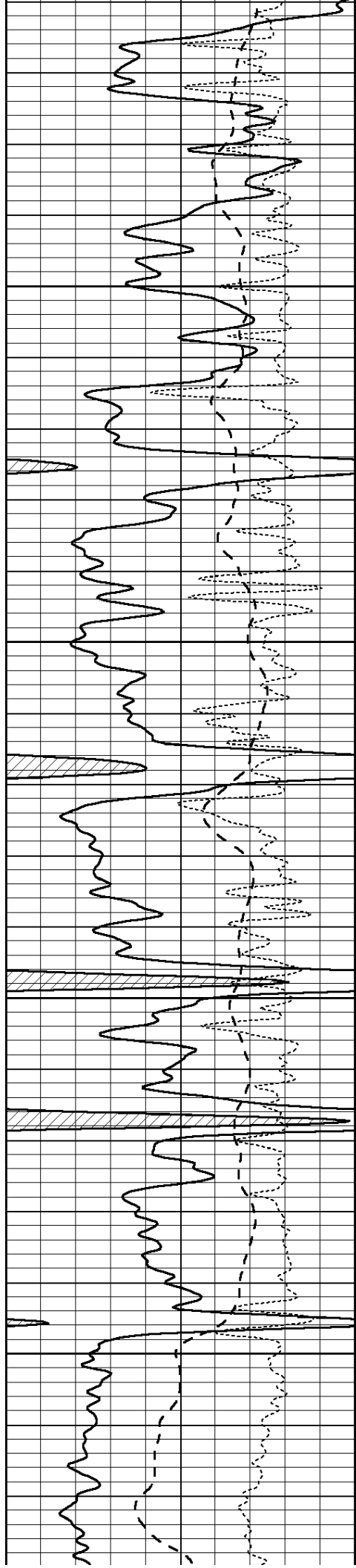
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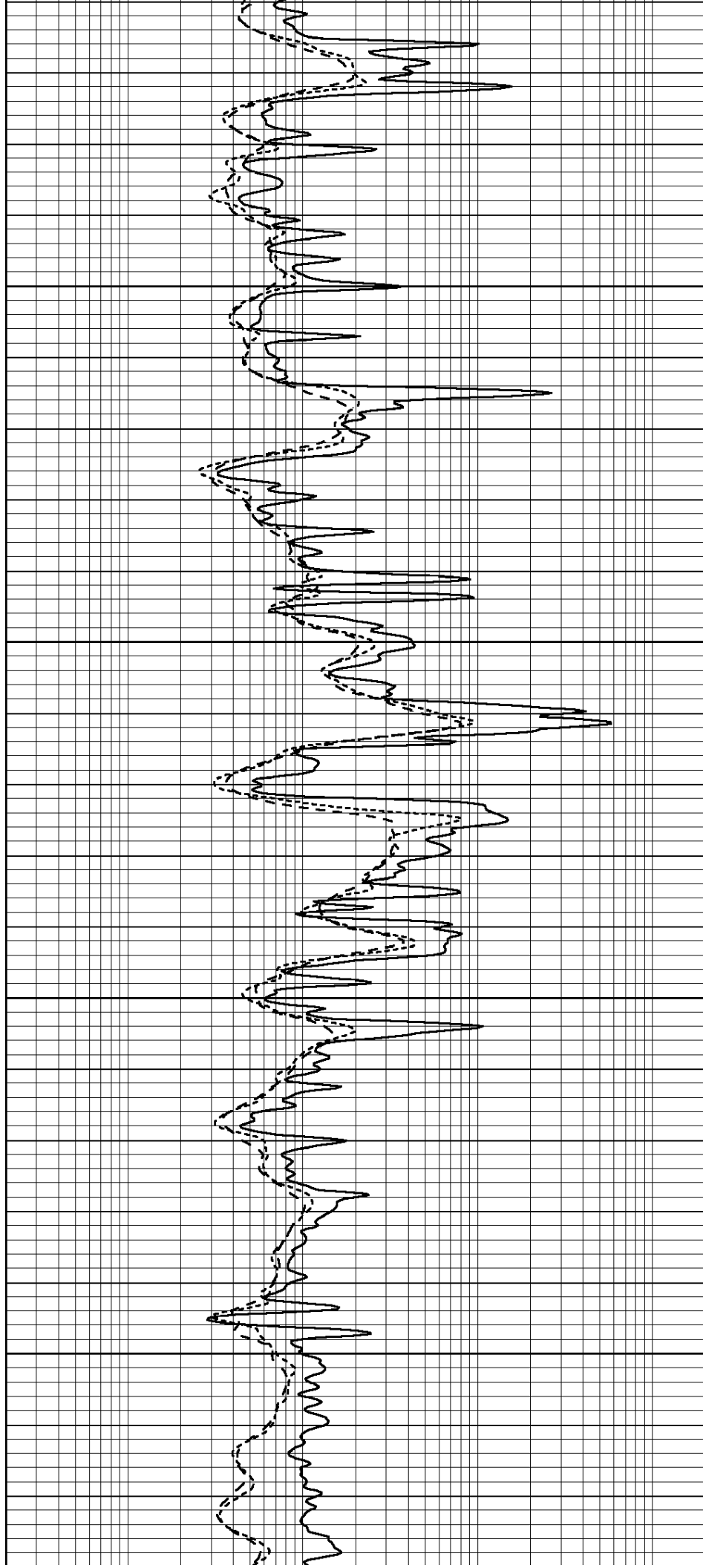


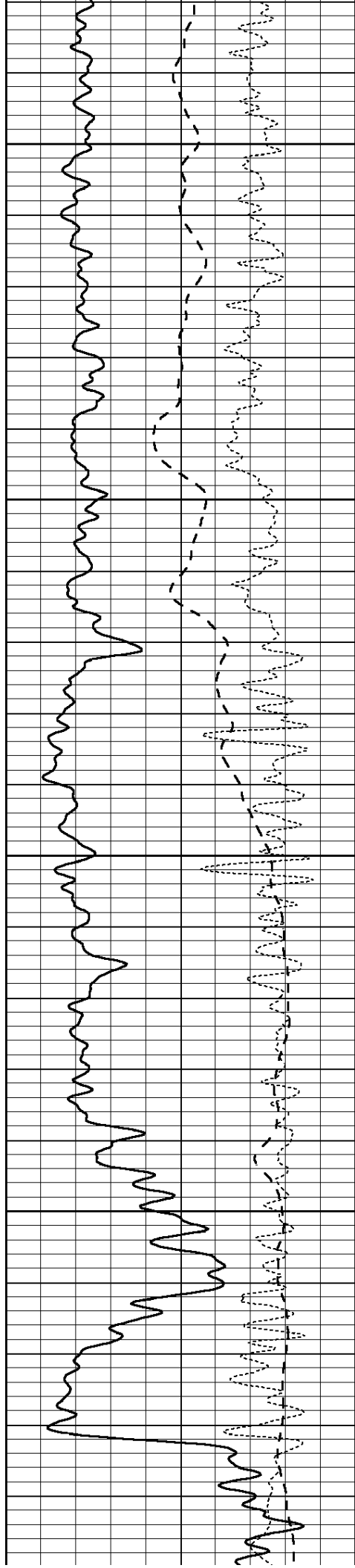
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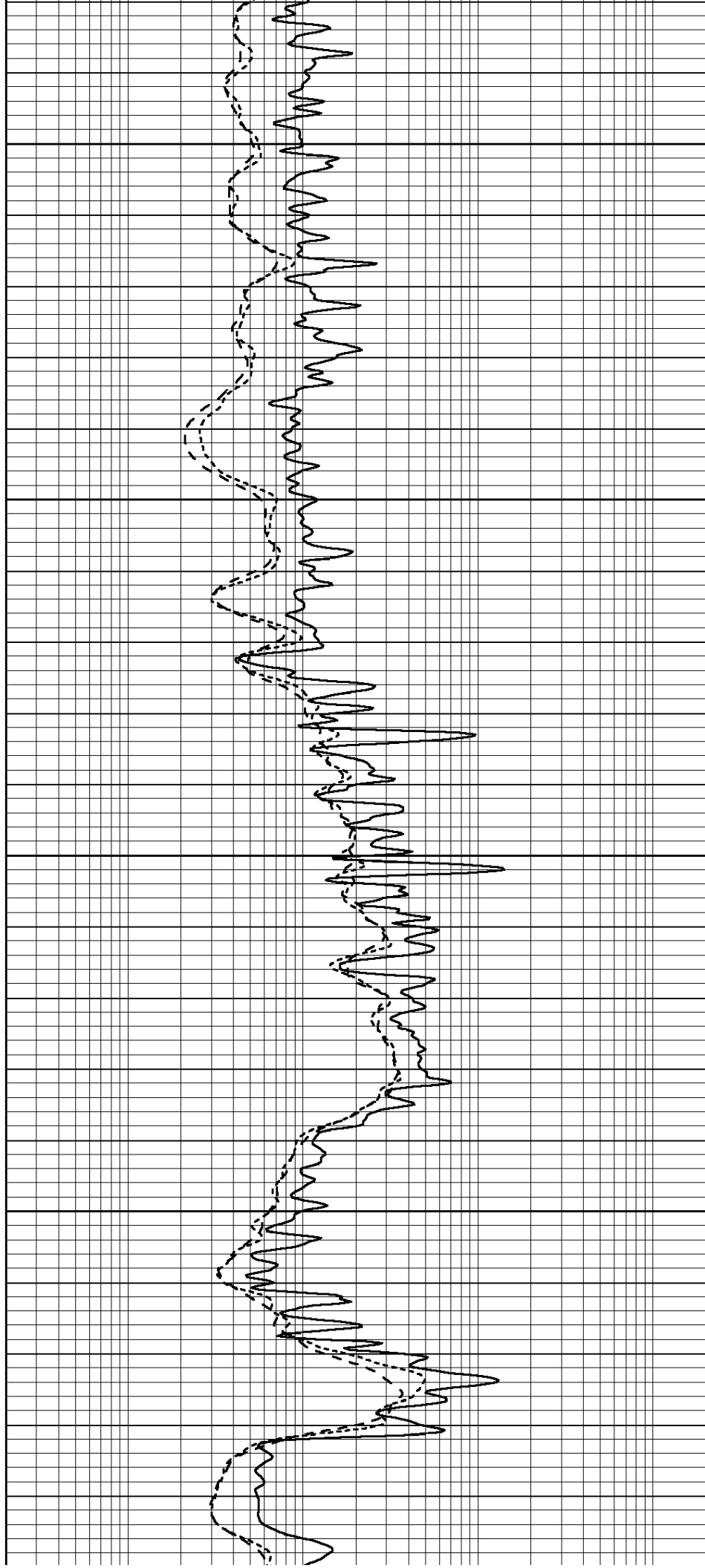
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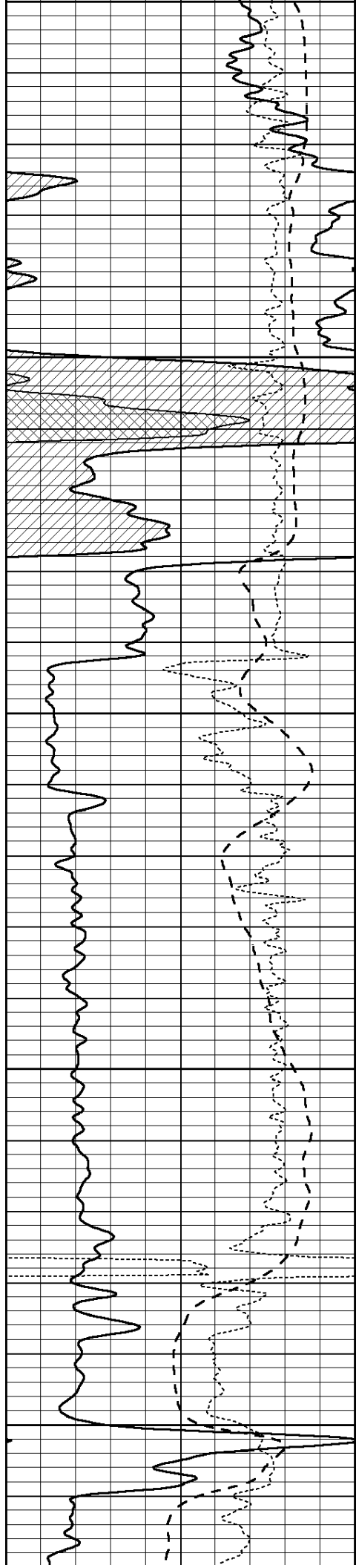
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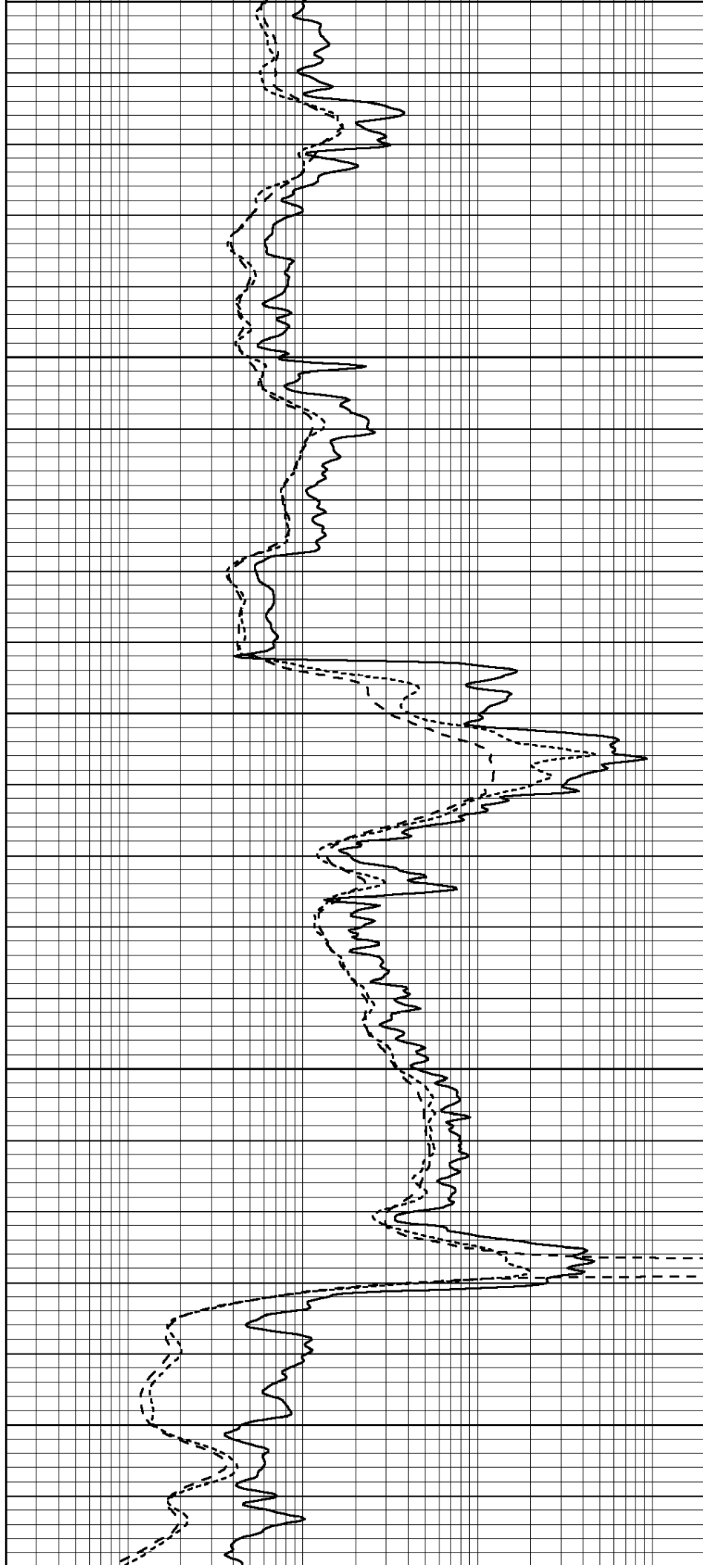
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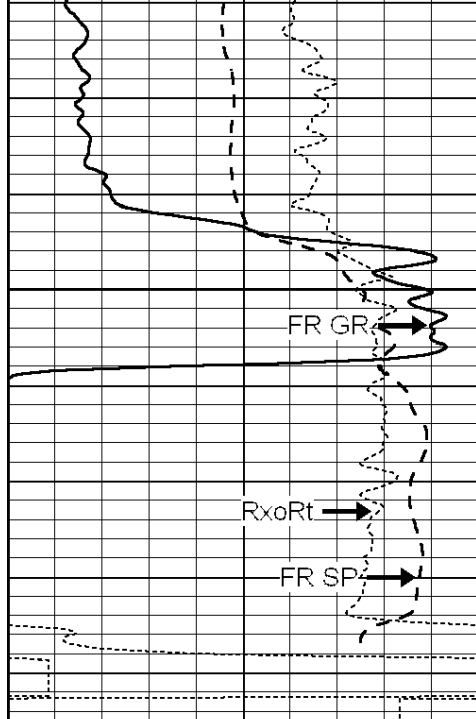
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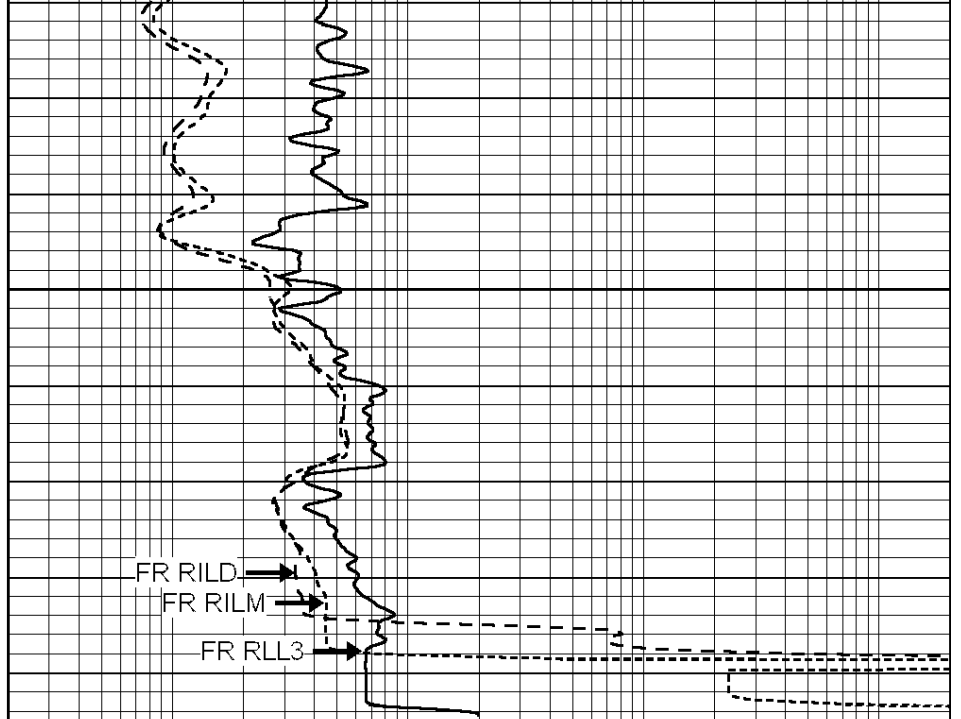
FR GR

RxoRt

FR SP

LTD 5090

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



FR RILD

FR RILM

FR RLL3

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

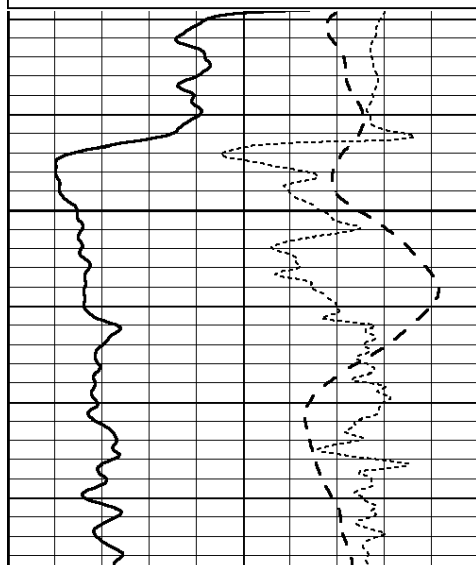


REPEAT SECTION

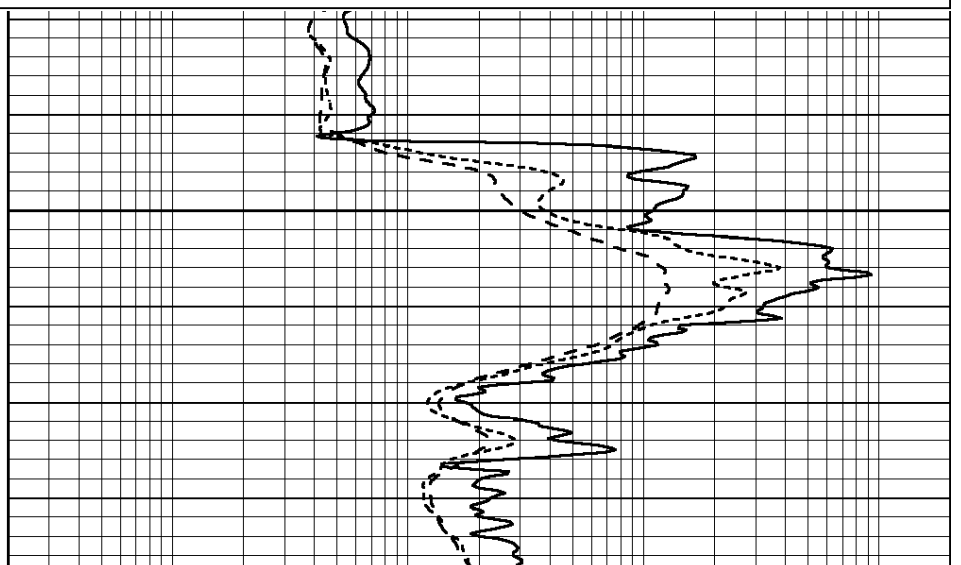
Database File: 011255pe.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Fri Jun 14 17:47:27 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

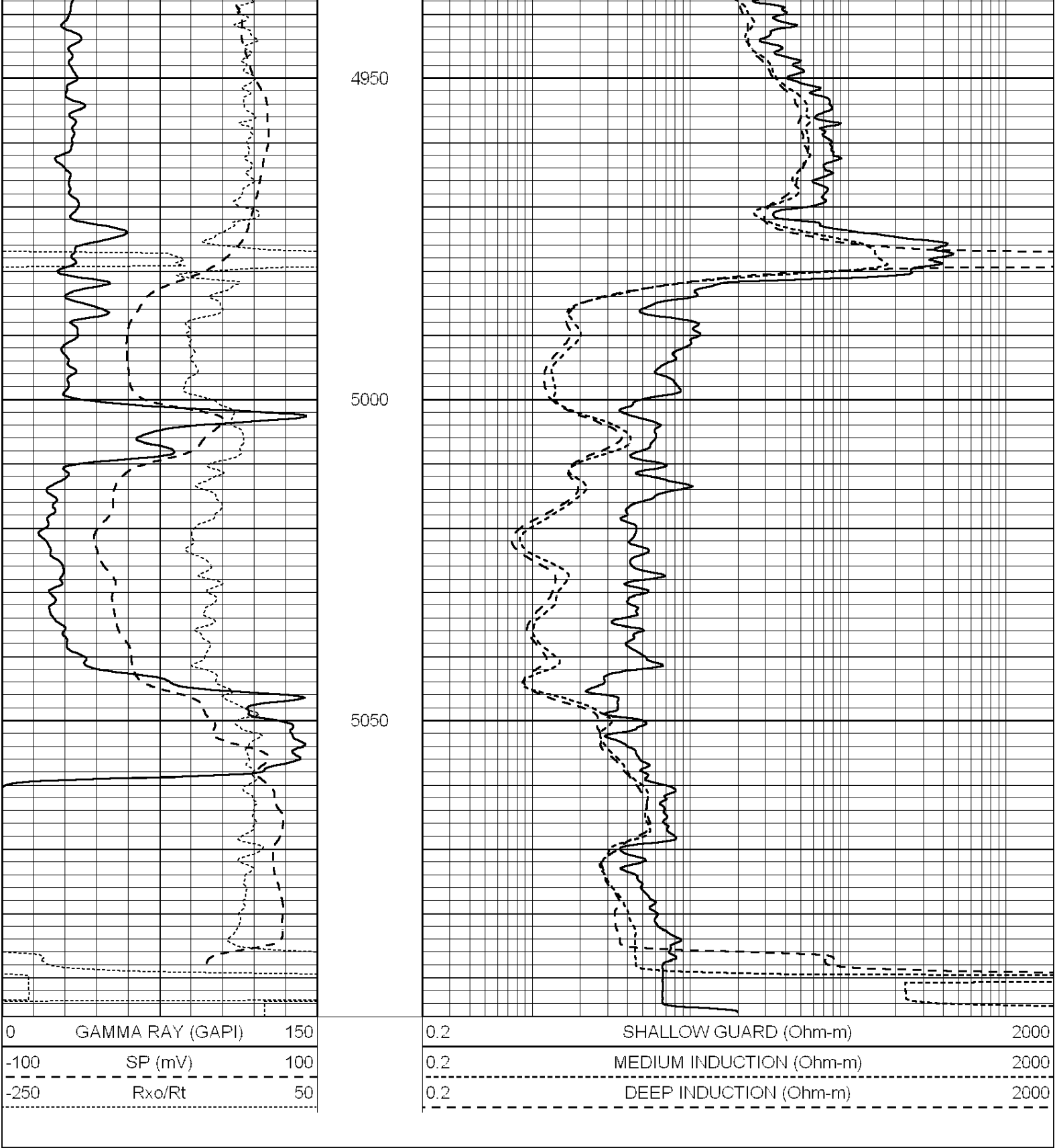
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



4900





Calibration Report

Database File: 011255pe.db
Dataset Pathname: pass2.1
Dataset Creation: Fri Jun 14 17:47:27 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Fri Aug 01 06:33:19 2008
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	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
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: 001 Model: PRB Performed Thu Sep 17 09:57:21 2009								
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Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	2056.0	9796.8	3673.1	10821.3	cps
Window 2	1920.0	8541.1	3303.5	9307.2	cps
Window 3	1563.1	4735.7	2212.8	5017.5	cps
Window 4	466.0	466.1	465.6	471.5	cps
Long Space	0.0	6621.1	1383.5	7387.2	cps
Short Space	2.5	2361.7	1523.2	2534.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.978	Density/Spine Ratio	: 0.541
Spine Angle	: 74.4	Spine Slope	: 3.570	Spine Intercept	: -18.9

Caliper		
Low Ref	Readings	Reference
High Ref	3.1	8.4
	4.3	14.3
	Gain: 4.6	Offset: -7.3

Compensated Neutron Calibration Report
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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
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		