



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL INDUCTION
LOG**

Company: CORAL COAST PETROLEUM, L.C.
Well: STEPHENS #7
Field: MORRISON NORTHEAST
County: CLARK
State: KANSAS

Company: CORAL COAST PETROLEUM, L.C.
Well: STEPHENS #7
Field: MORRISON NORTHEAST
County: CLARK
State: KANSAS

Location: 2200' FNL & 1393' FWL
API #: 15-025-21554-0000
SEC 15 TWP 32S RGE 21W
Permanent Datum: GROUND LEVEL Elevation: 2034
Log Measured From: KELLY BUSHING 10' A.G.L.
Drilling Measured From: KELLY BUSHING
Other Services: CDL/CNL/PE MEL/SONIC
Elevation: K.B. 2044 D.F. 2042 G.L. 2034

Date	1/24/13
Run Number	ONE
Depth Driller	6607
Depth Logger	6610
Bottom Logged Interval	6608
Top Log Interval	00
Casing Driller	8 5/8" @ 602'
Casing Logger	602
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.1/46
pH / Fluid Loss	10.0/10.8
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.580 @ 82F
Rmf @ Meas. Temp	.435 @ 82F
Rmc @ Meas. Temp	.696 @ 82F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.340 @ 140F
Time Circulation Stopped	3.5 HOURS
Time Logger on Bottom	9:00 A.M.
Maximum Recorded Temperature	140F
Equipment Number	4854
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	KEITH REAVIS

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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, KANSAS (785) 628-6395
DIRECTIONS
PROTECTION, KS. 7W. ON HWY 160 TO "RD. 30", 4N. INTO PASTURE, 1/2 W. ON TRAIL, THEN CURVE
AROUND N. & E.



MAIN SECTION

Database File: 010050pe.db
 Dataset Pathname: pass3.10
 Presentation Format: dil2
 Dataset Creation: Thu Jan 24 11:22:56 2013 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150
 -100 SP (mV) 100

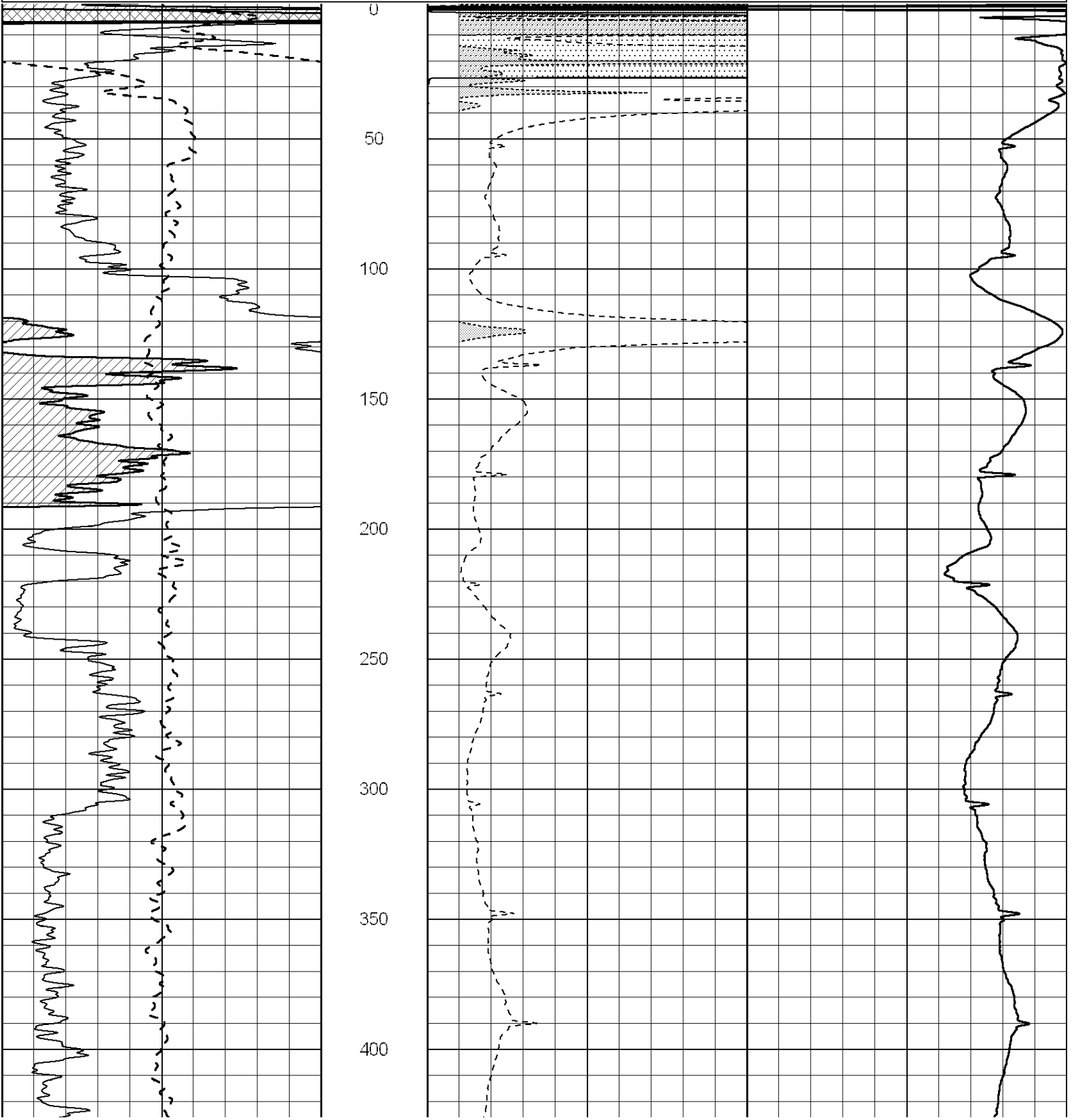
0 RLL3 (Ohm-m) 50

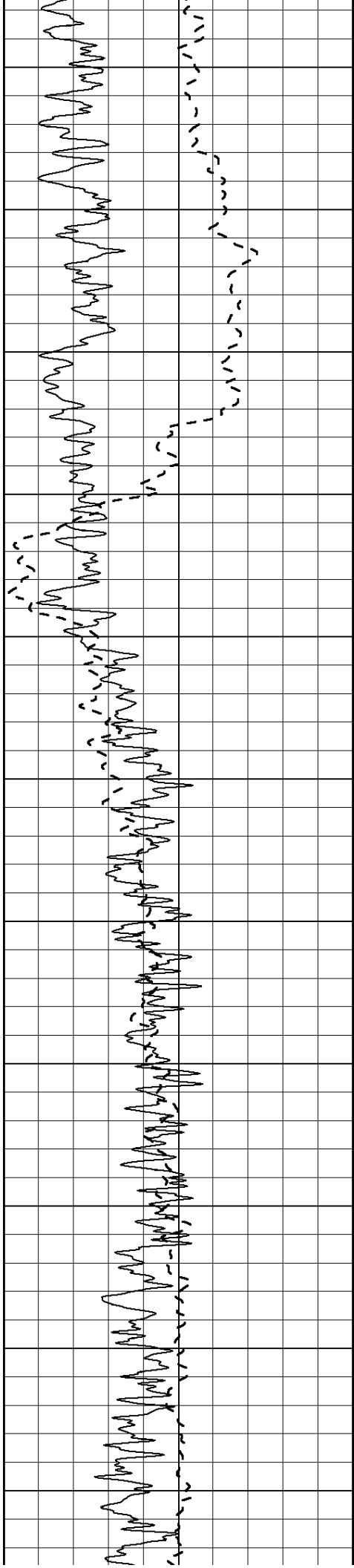
0 RILD (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500





450

500

550

600

650

700

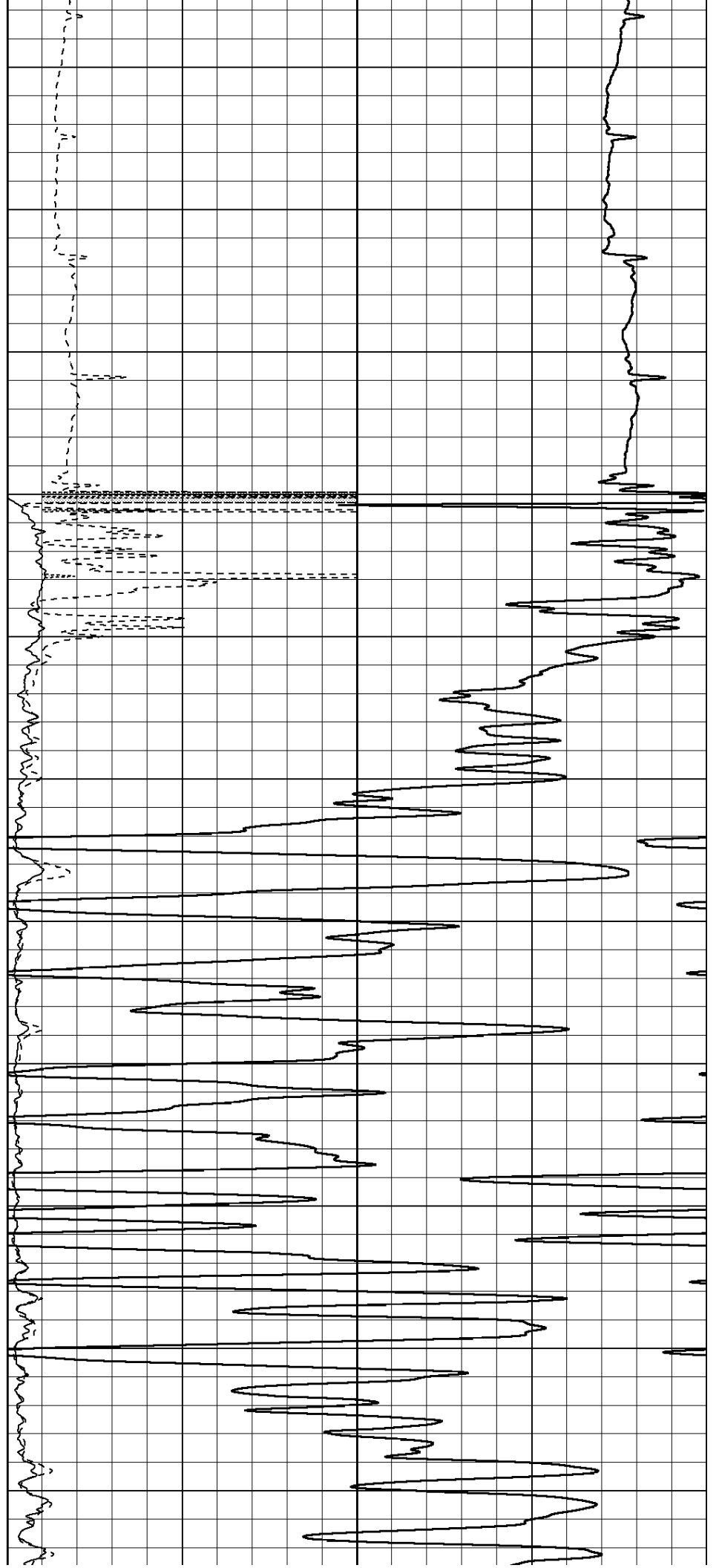
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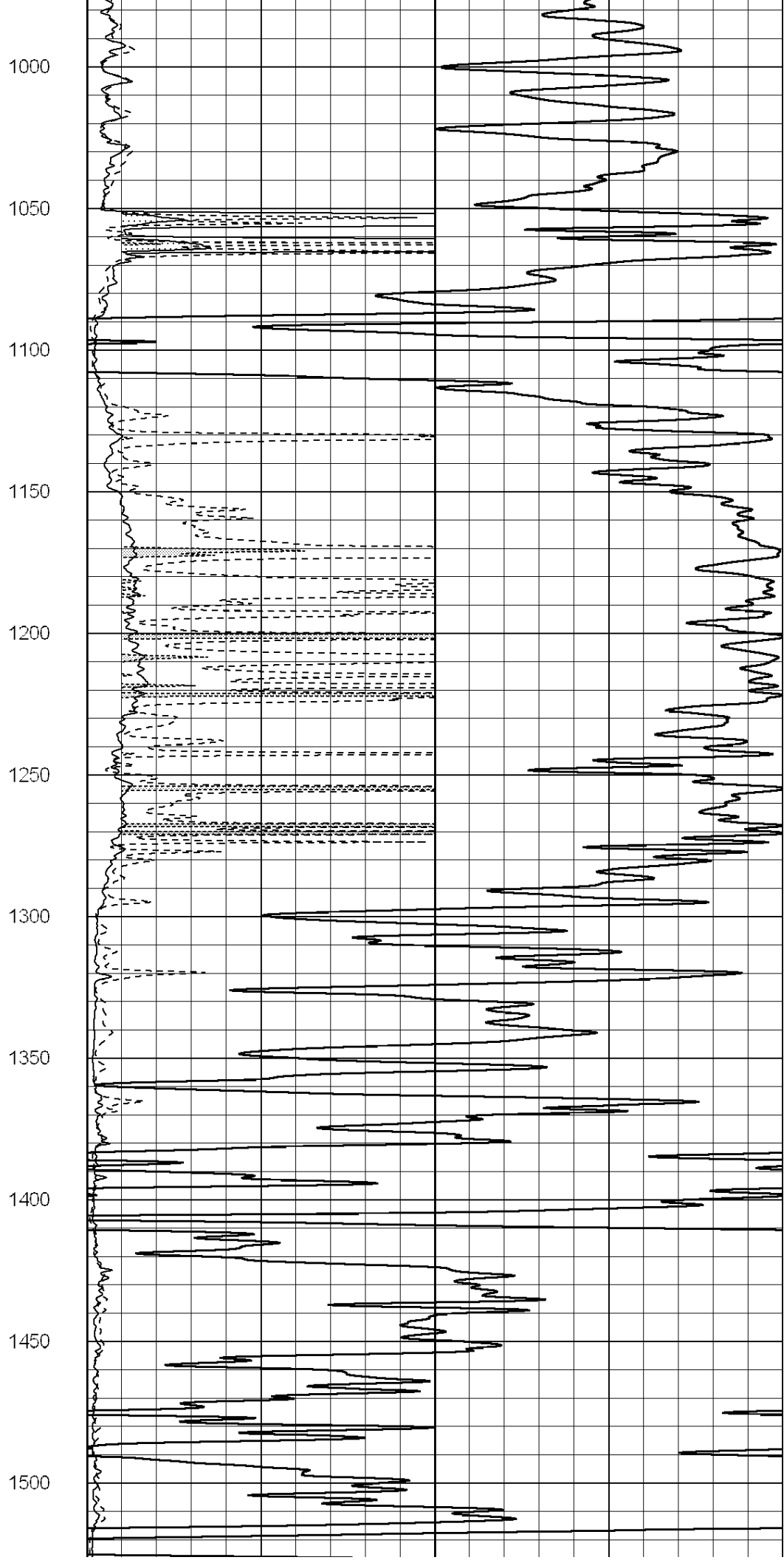
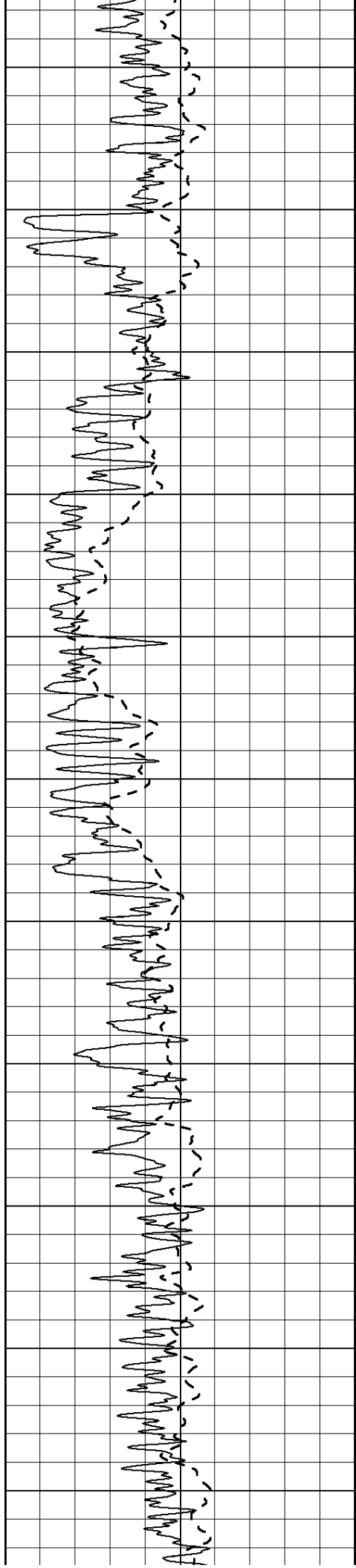
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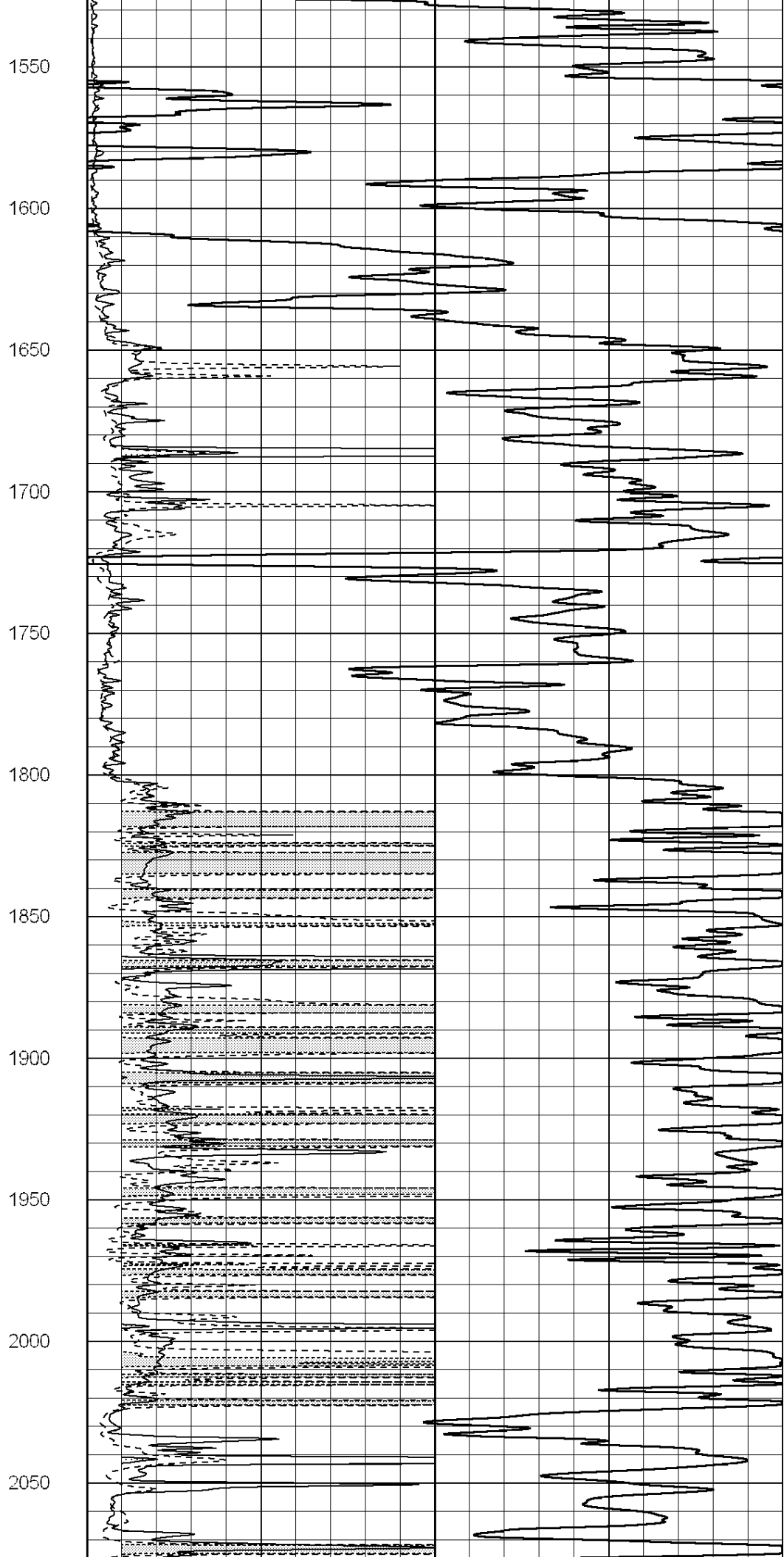
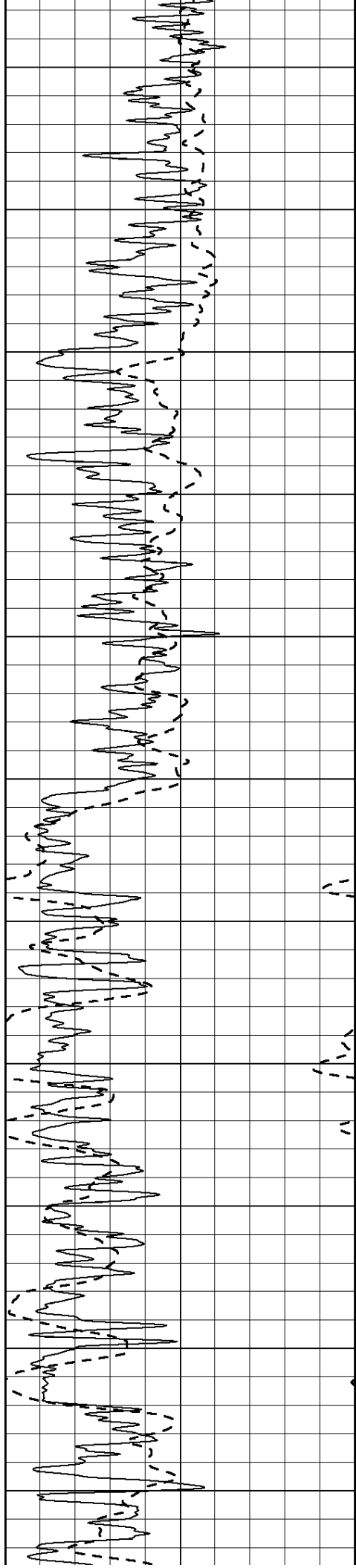
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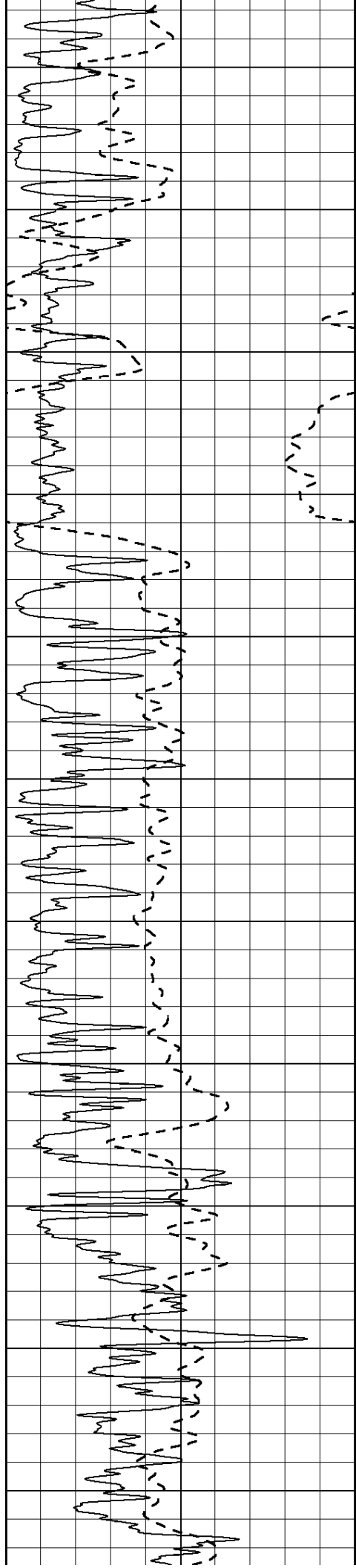
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950









2100

2150

2200

2250

2300

2350

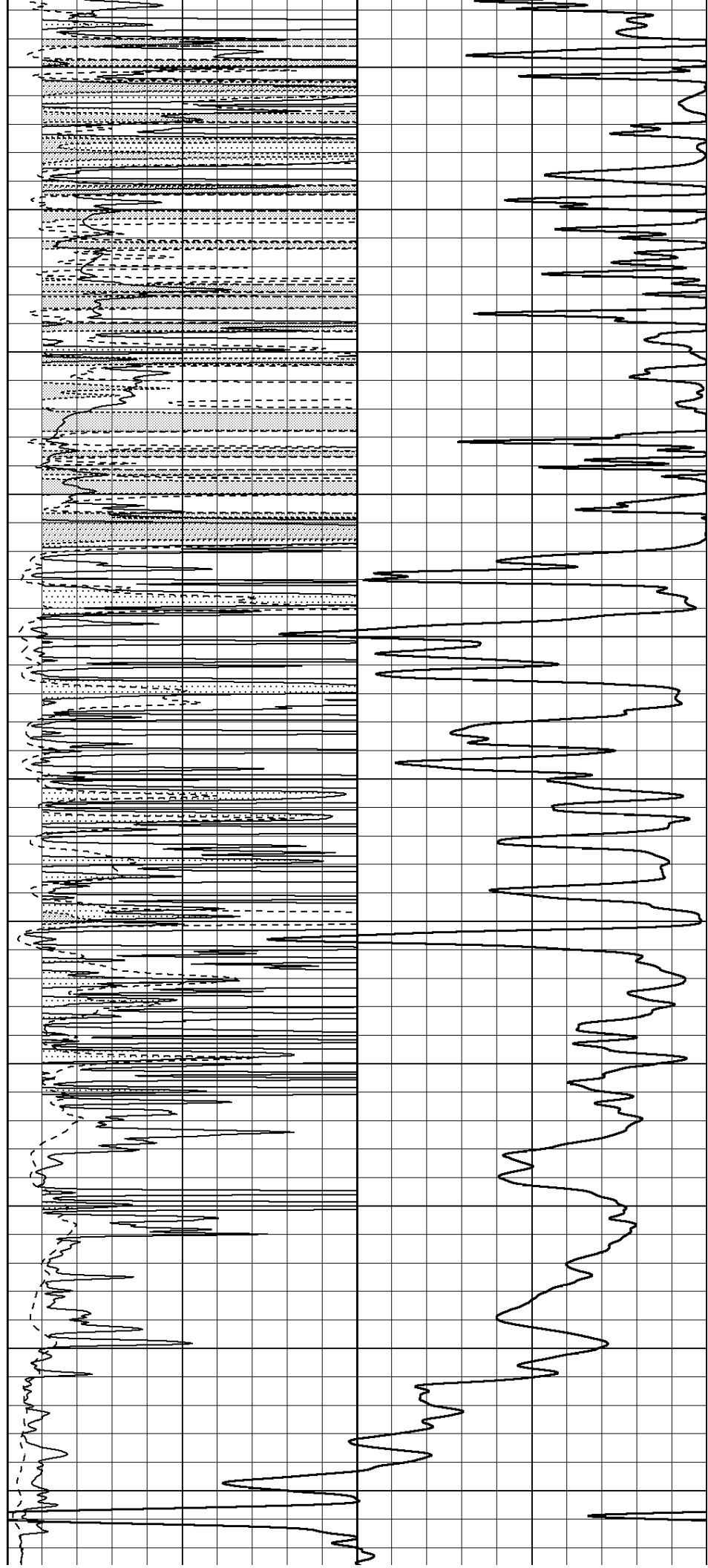
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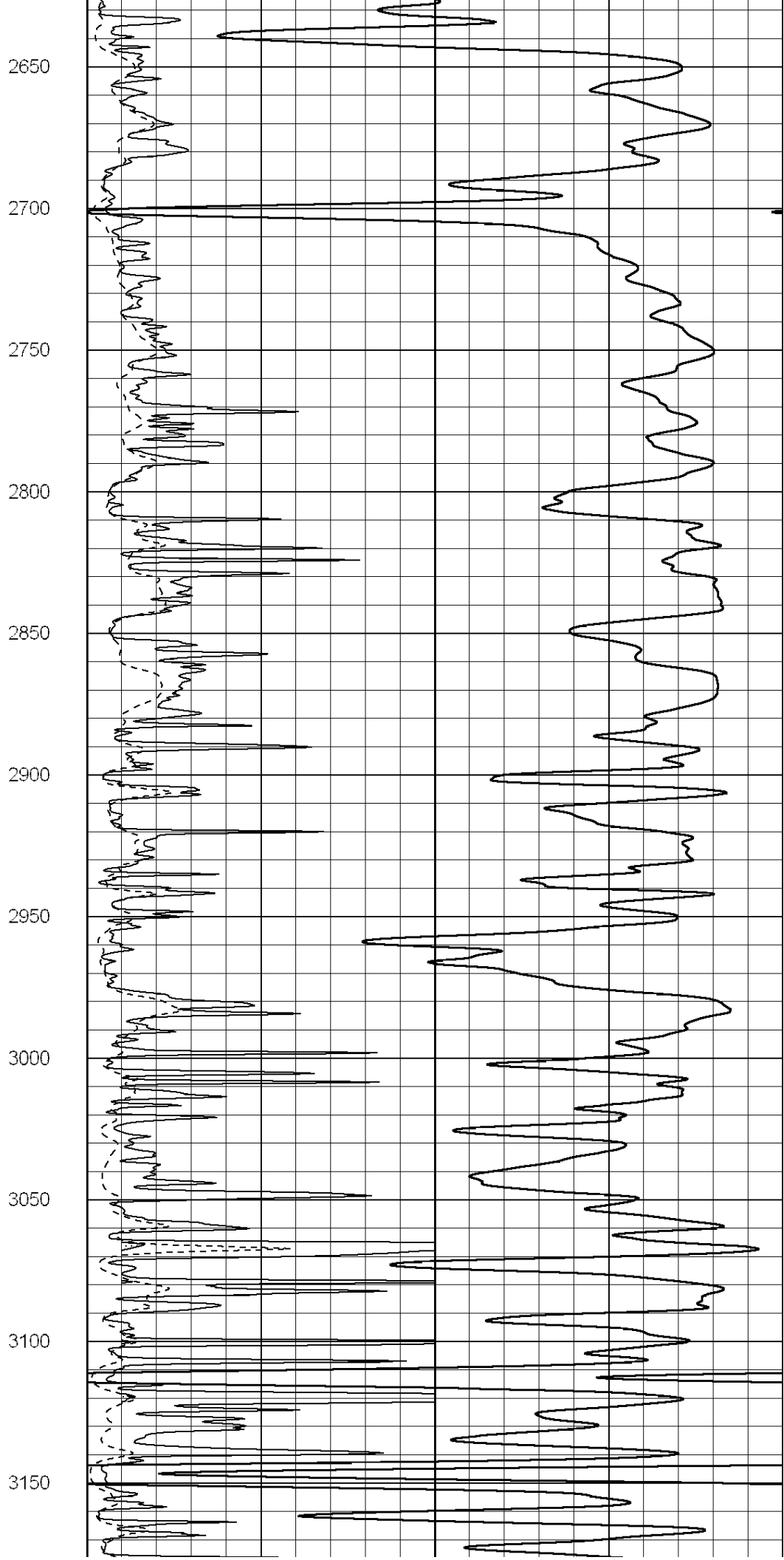
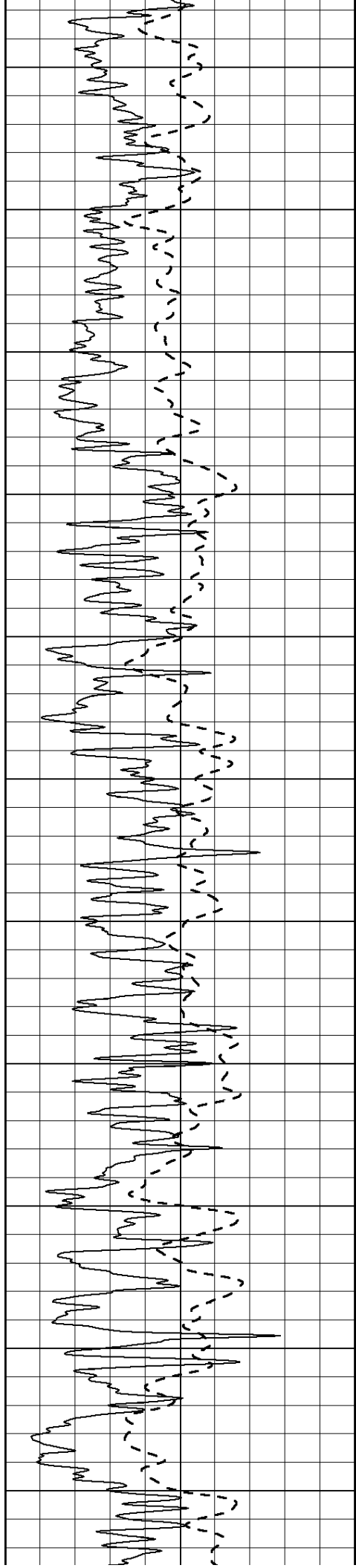
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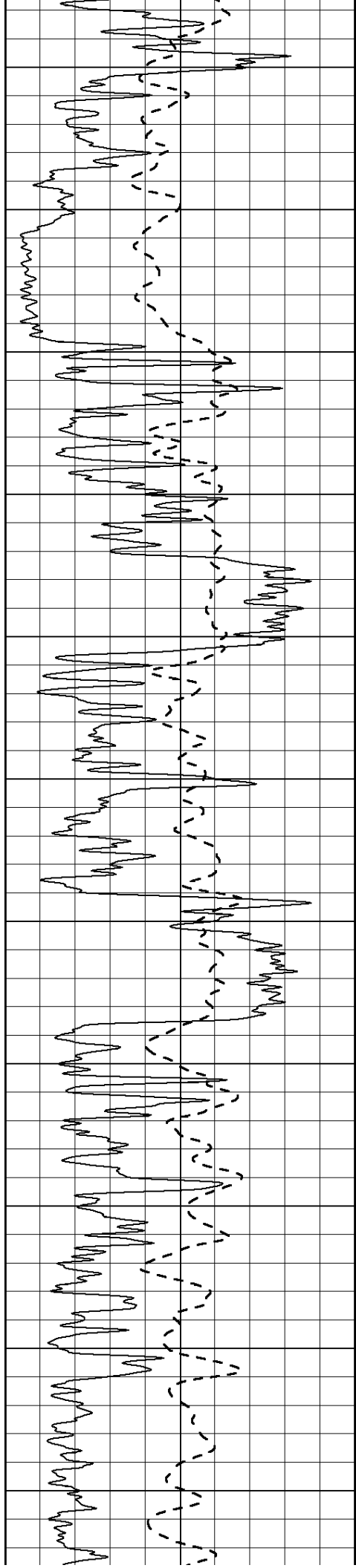
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2600







3200

3250

3300

3350

3400

3450

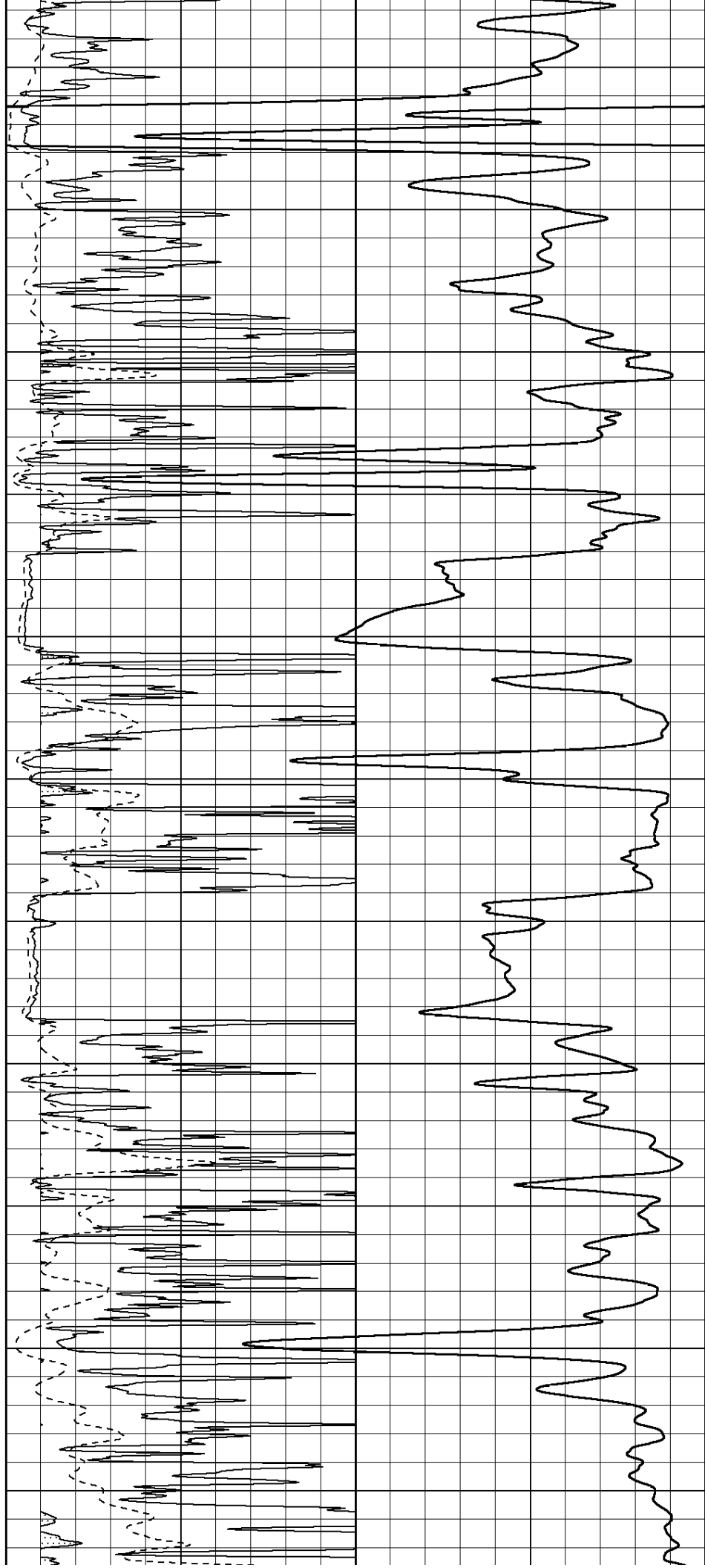
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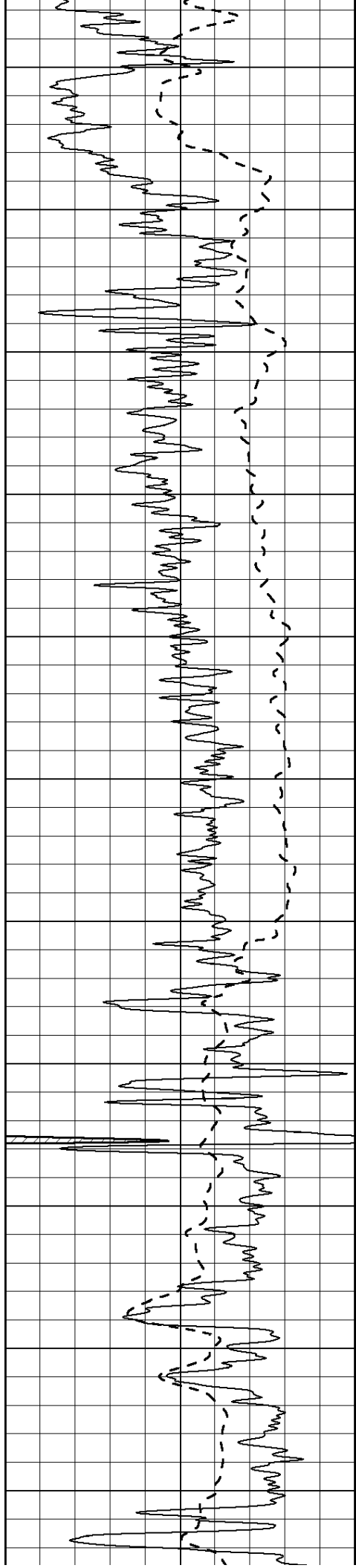
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3700





3750

3800

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3900

3950

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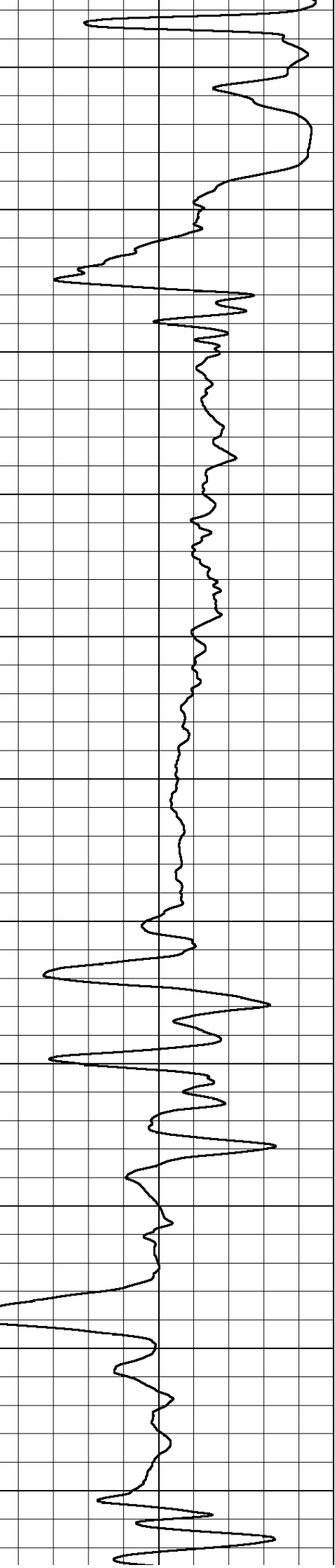
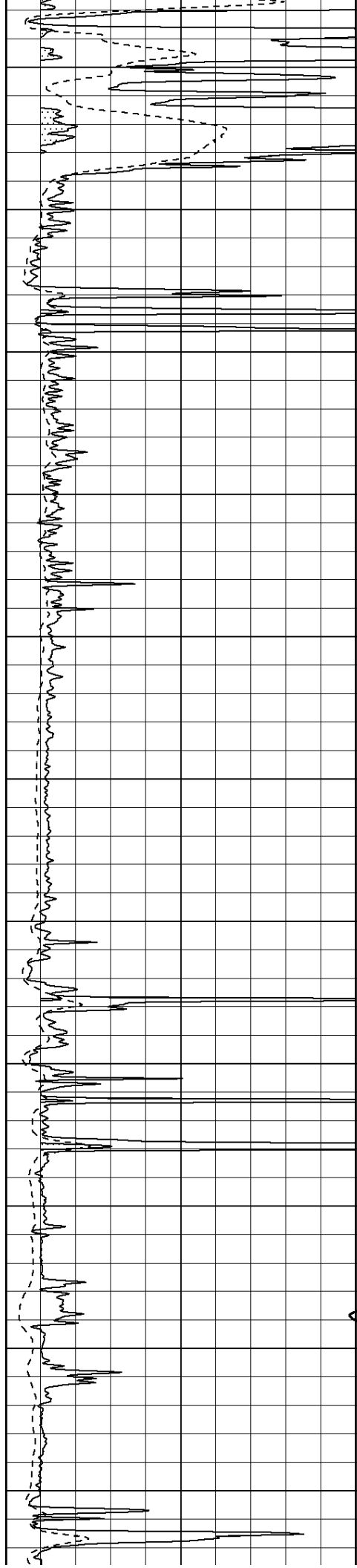
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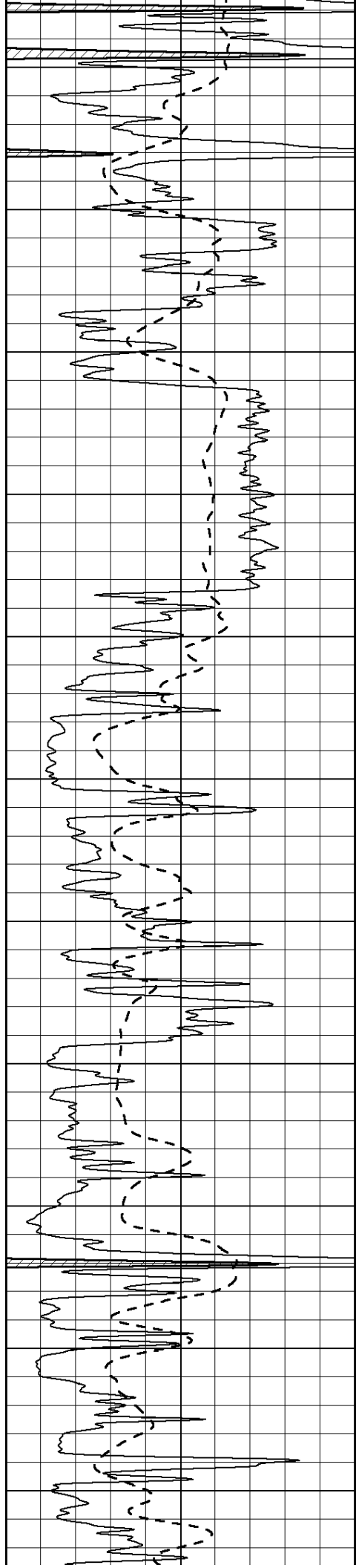
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4150

4200

4250





4300

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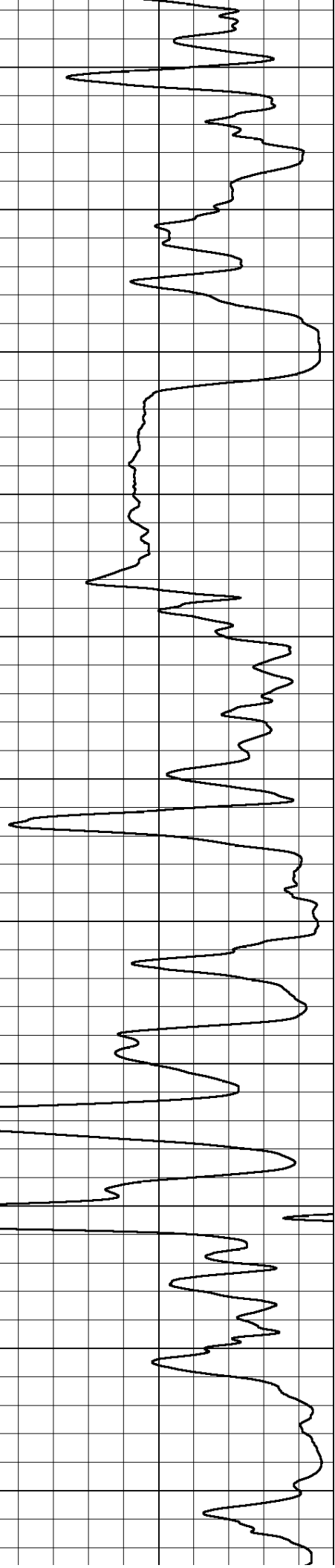
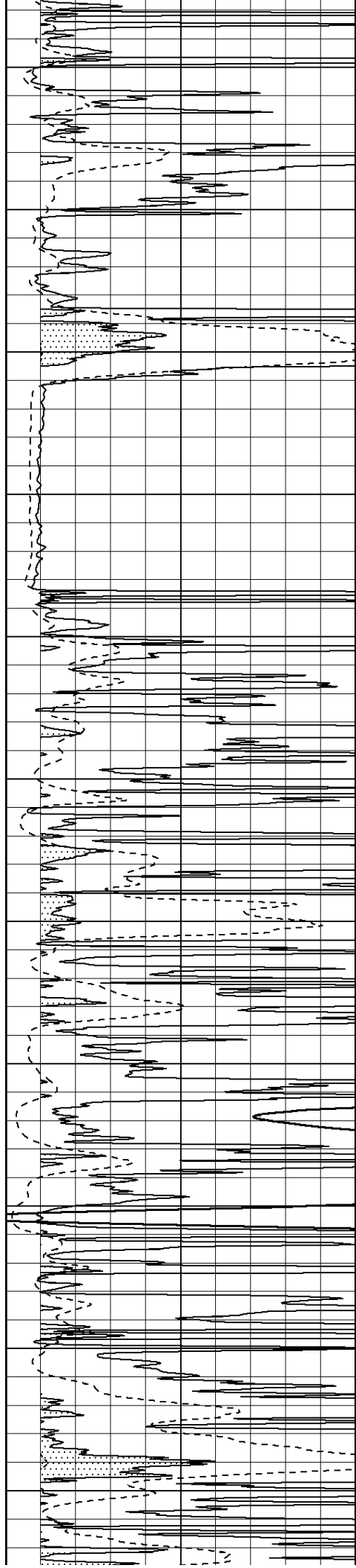
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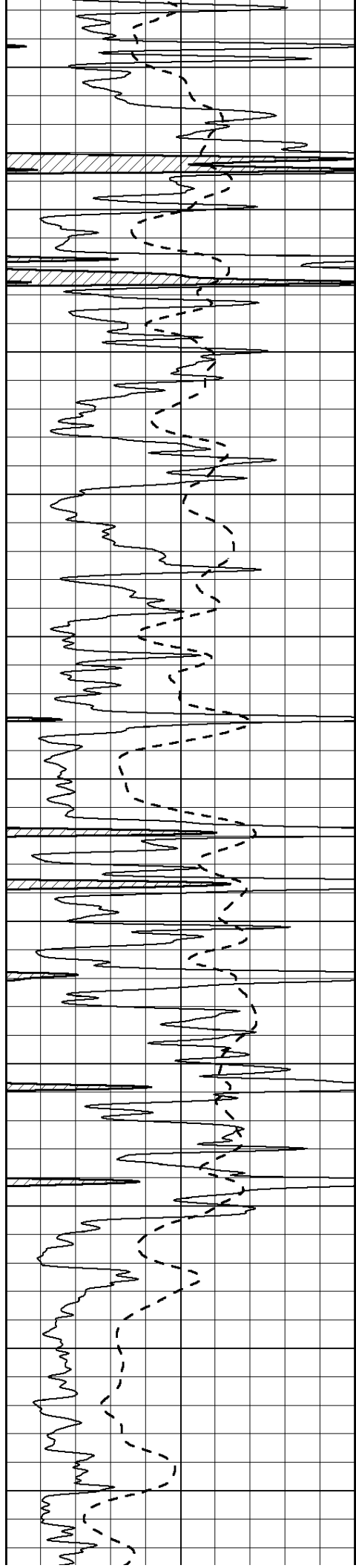
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5000

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5100

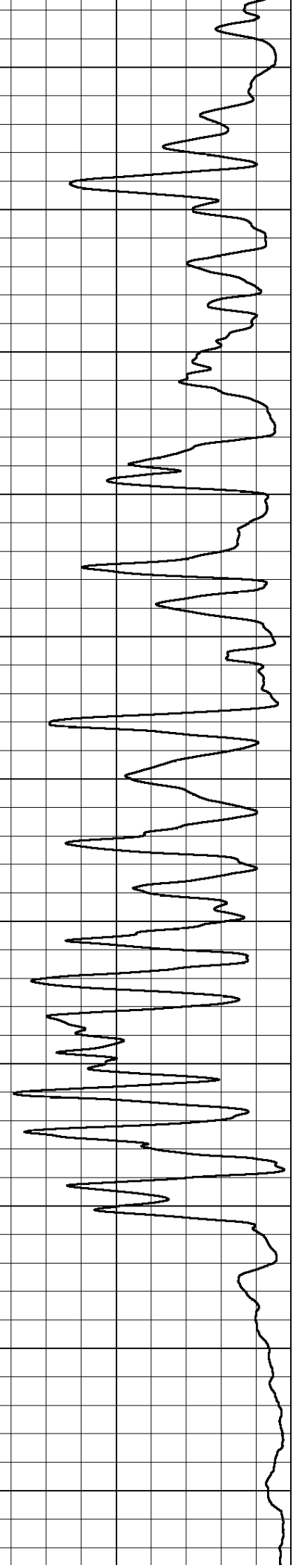
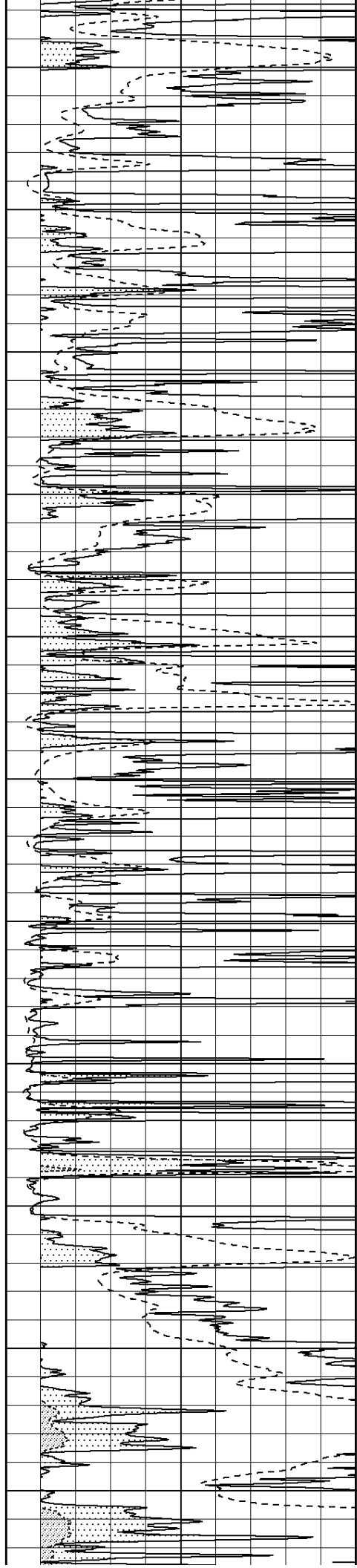
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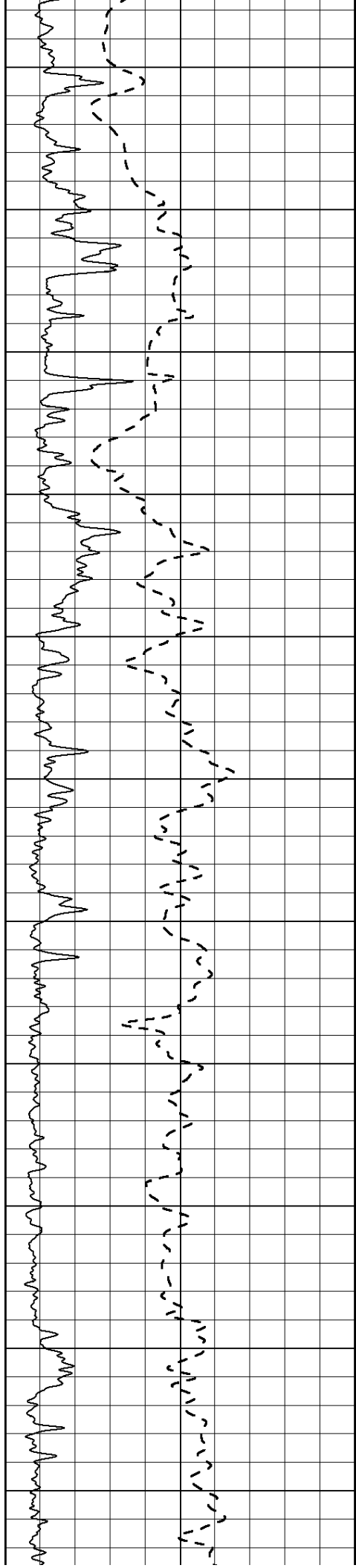
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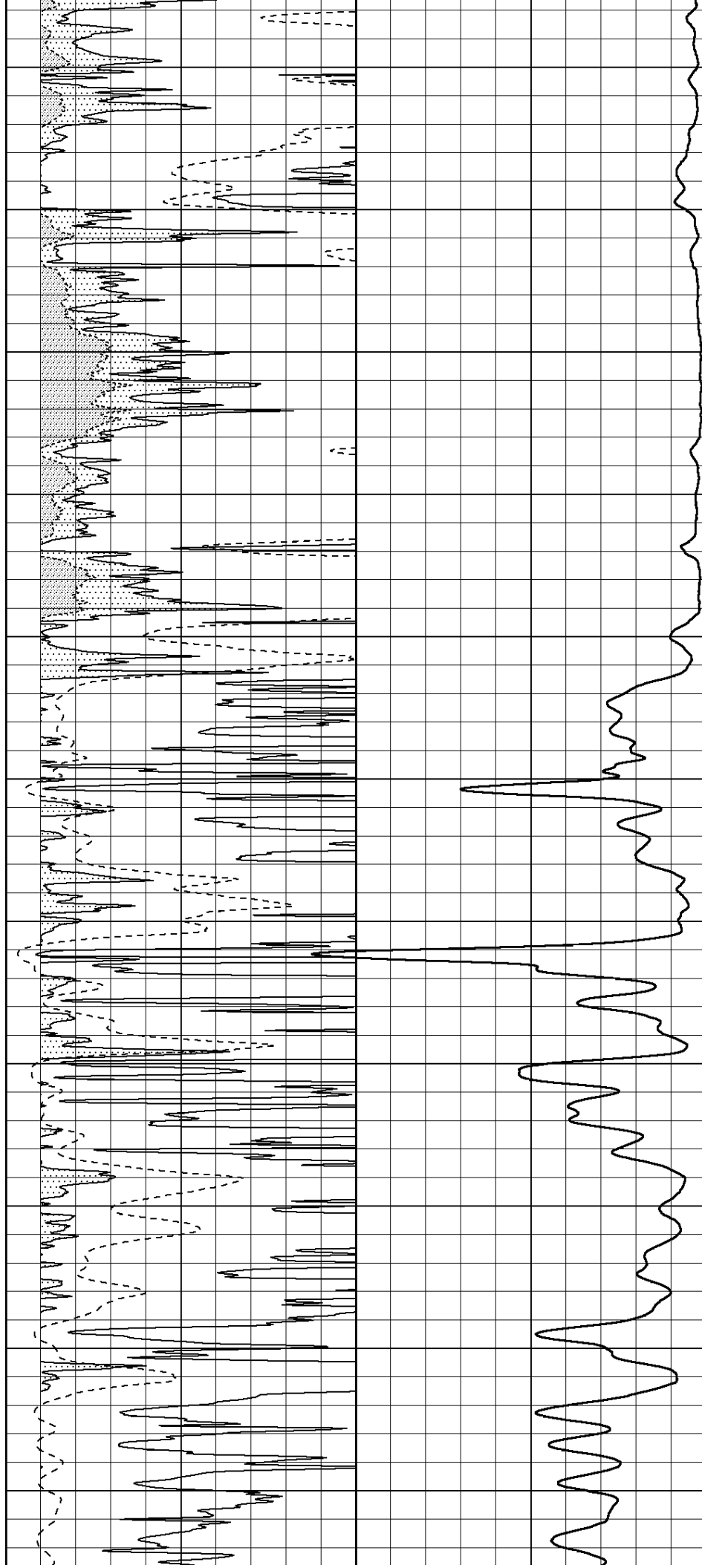
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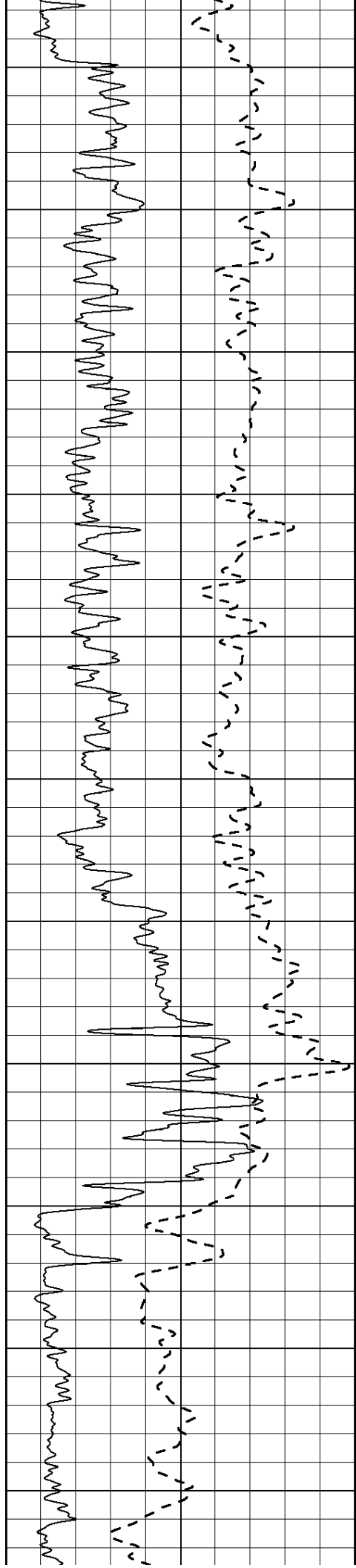
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6100

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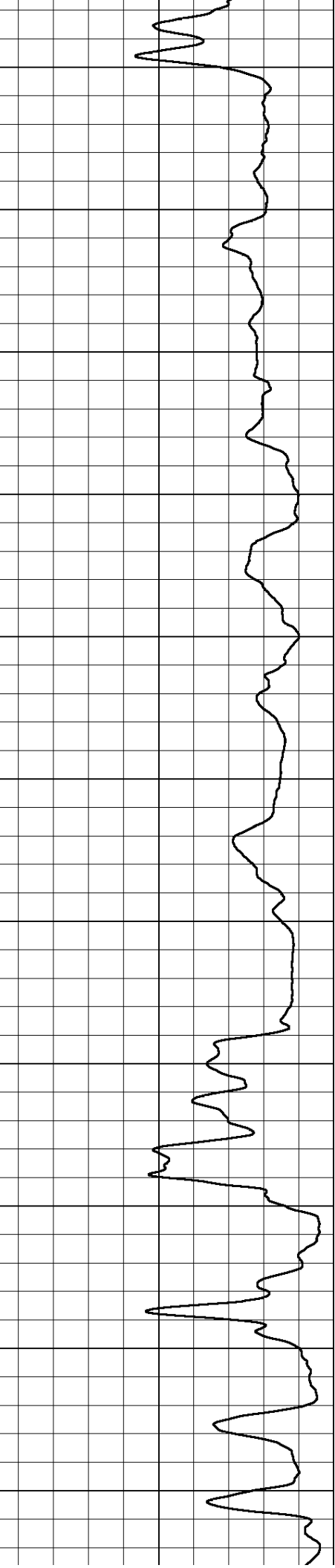
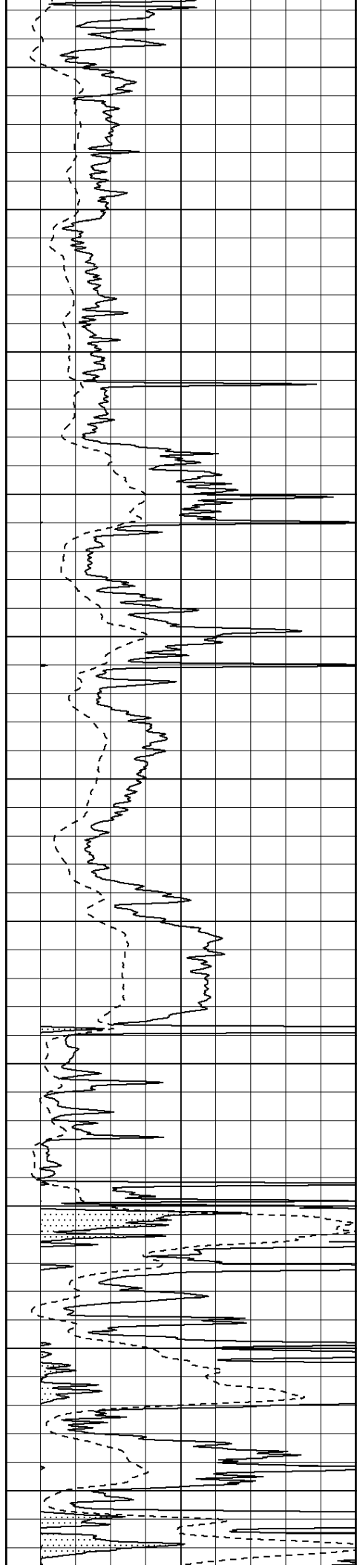
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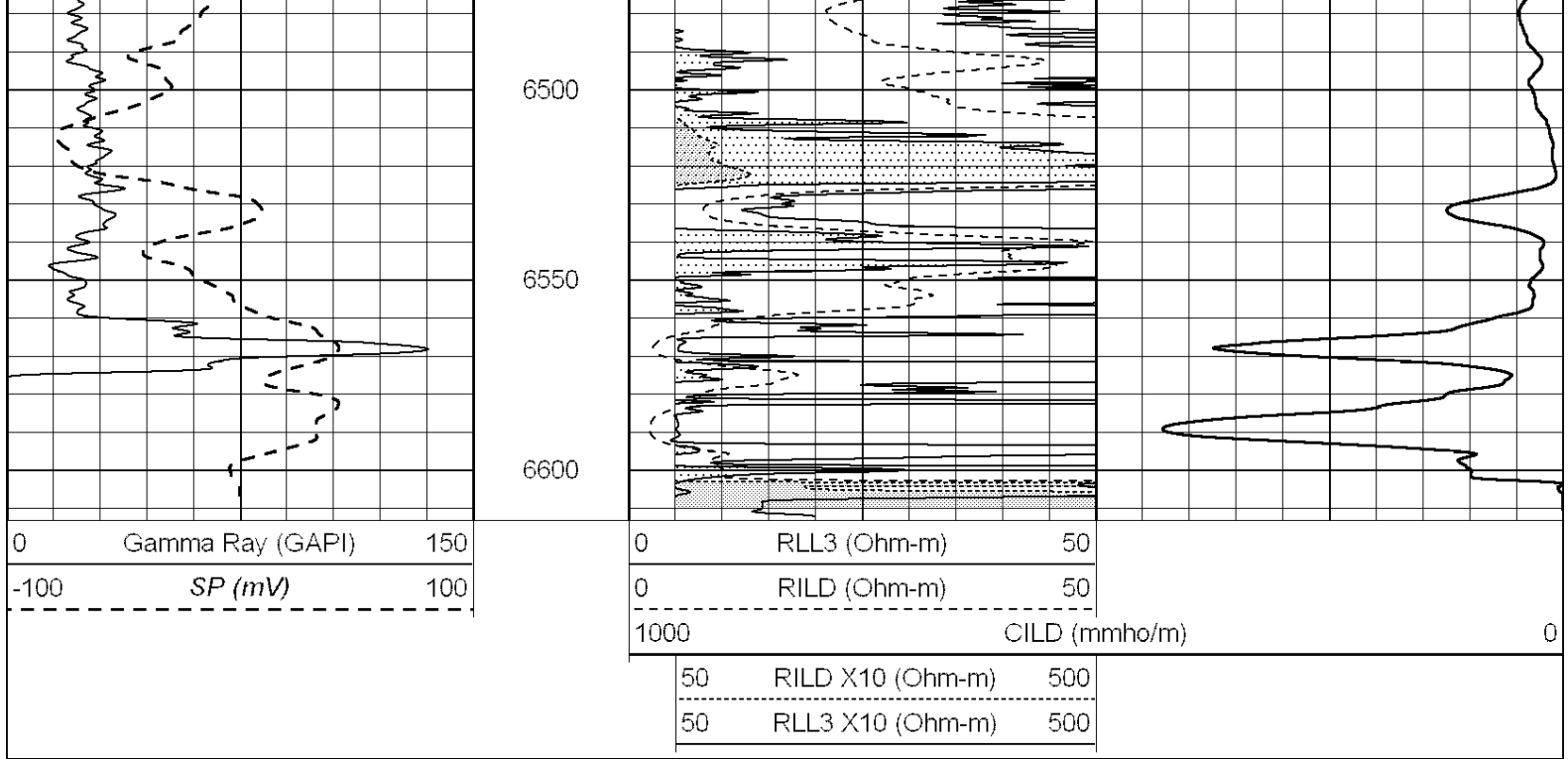
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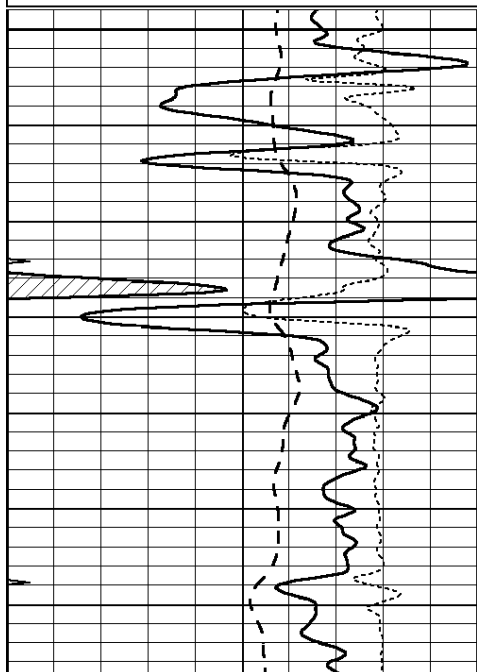




MAIN SECTION

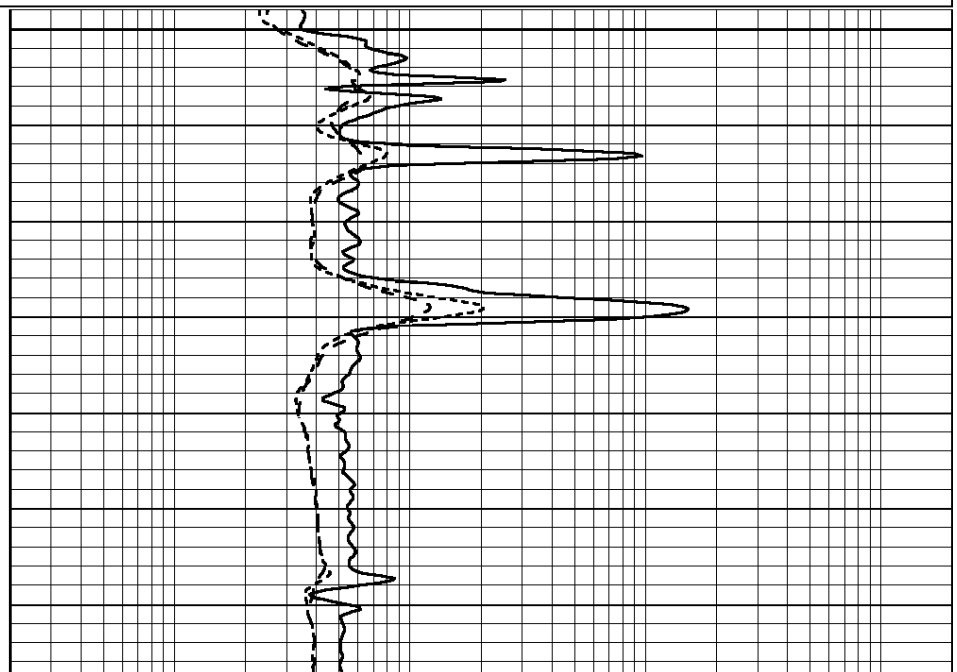
Database File: 010050pe.db
 Dataset Pathname: pass3.10
 Presentation Format: dil
 Dataset Creation: Thu Jan 24 11:22:56 2013 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

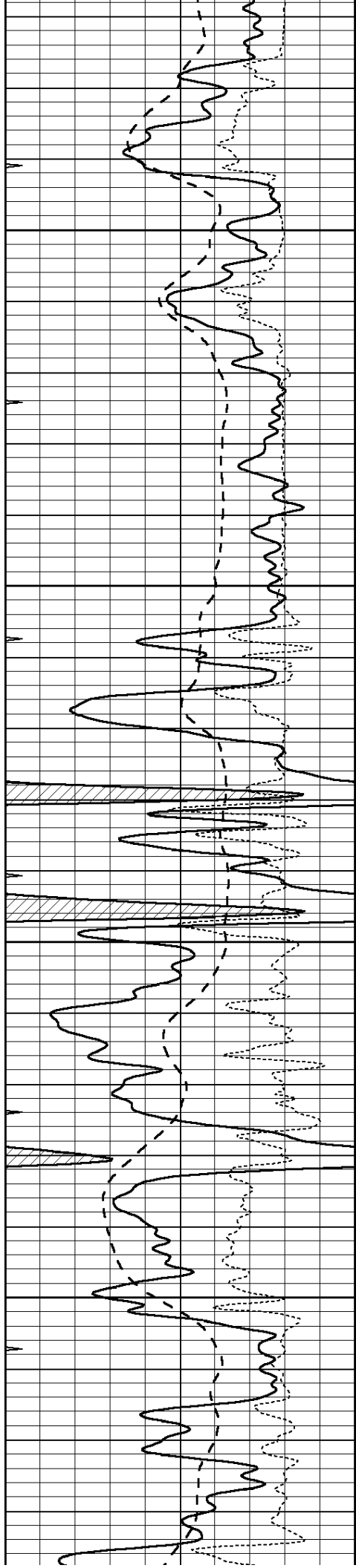
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



4100

4150



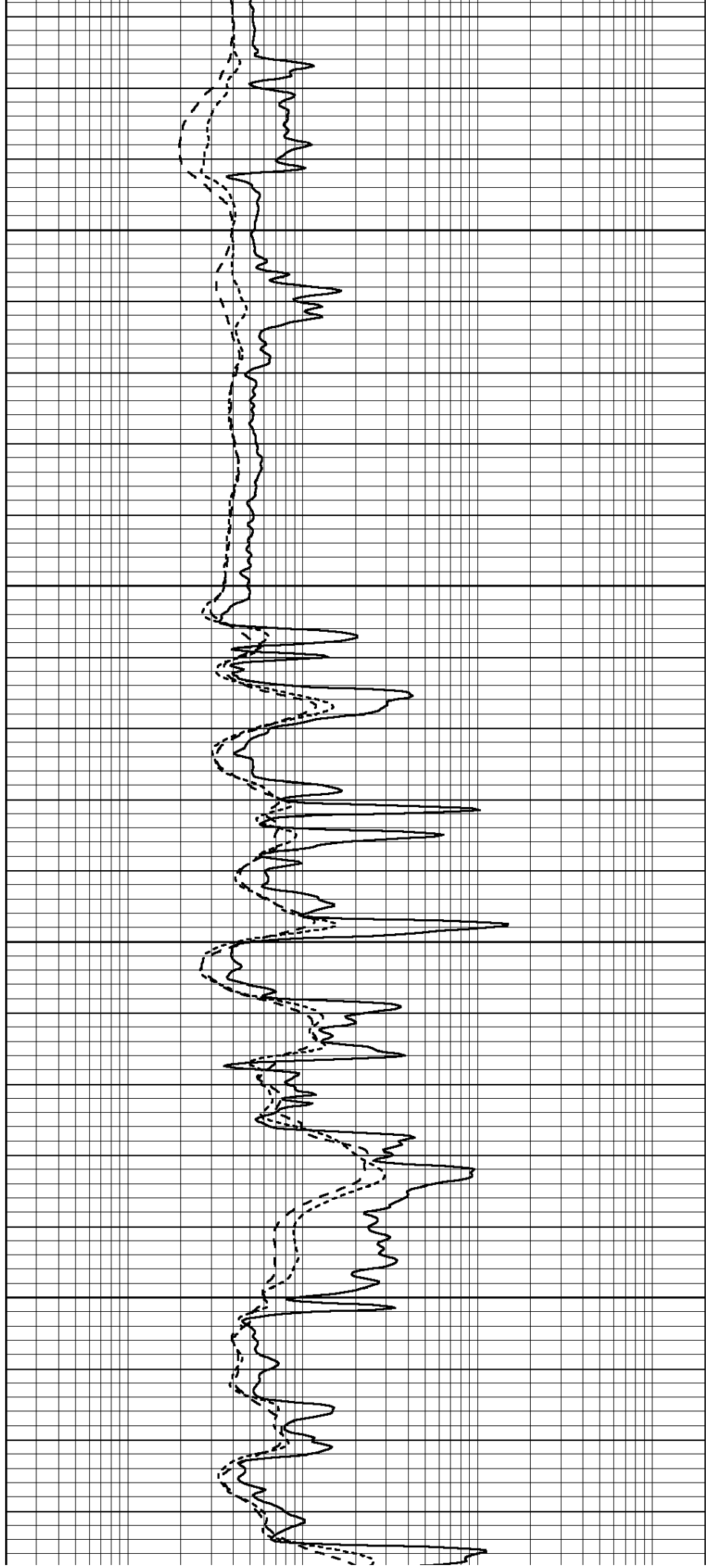


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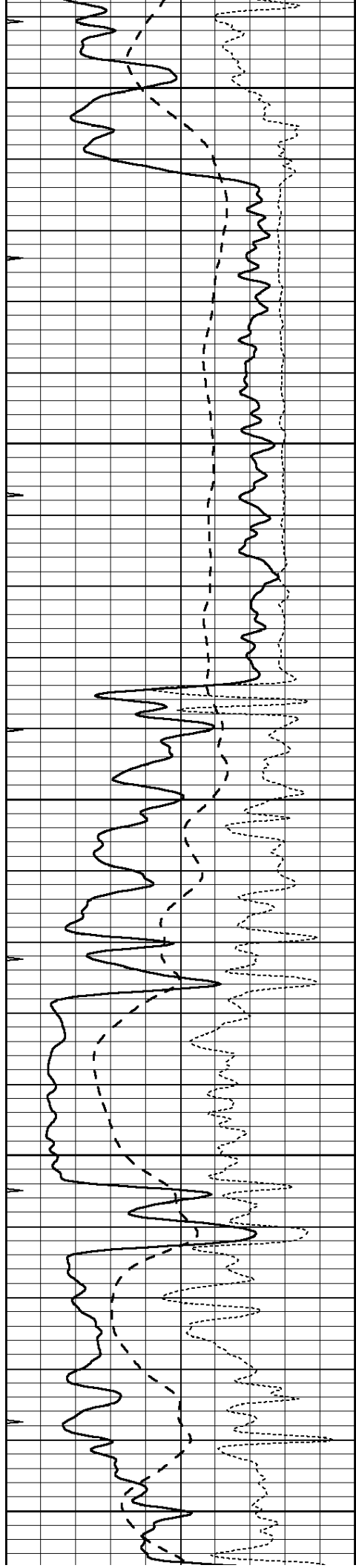


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4300

4350



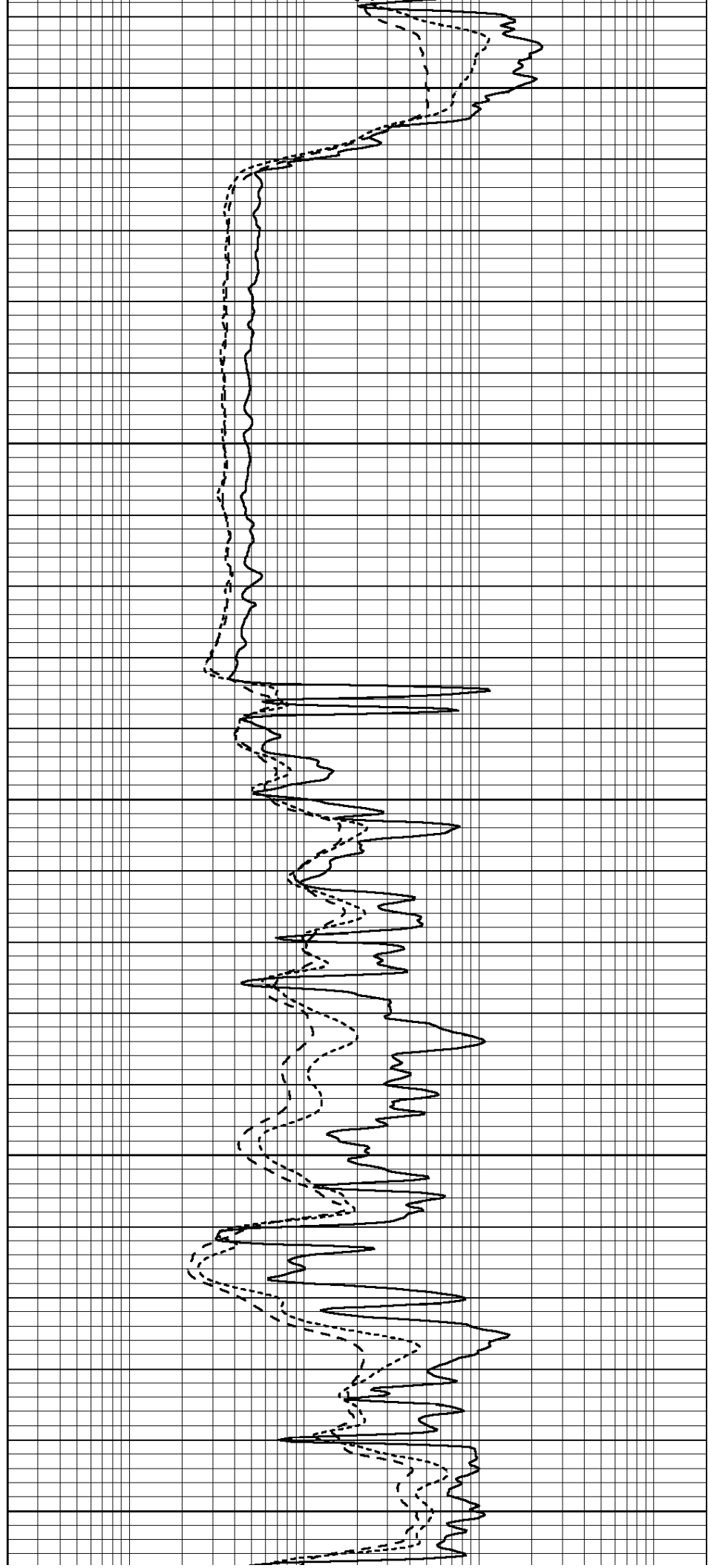
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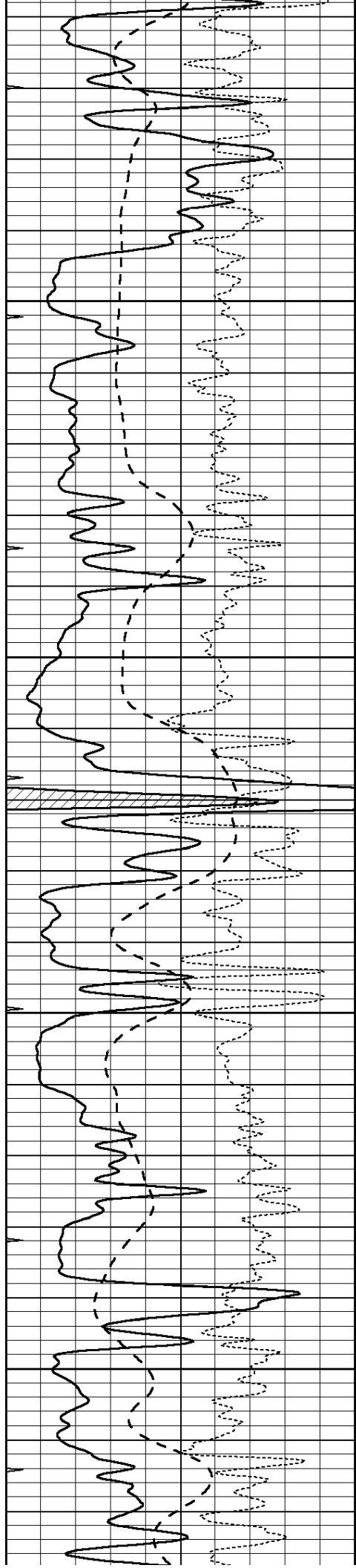
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4500

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4600



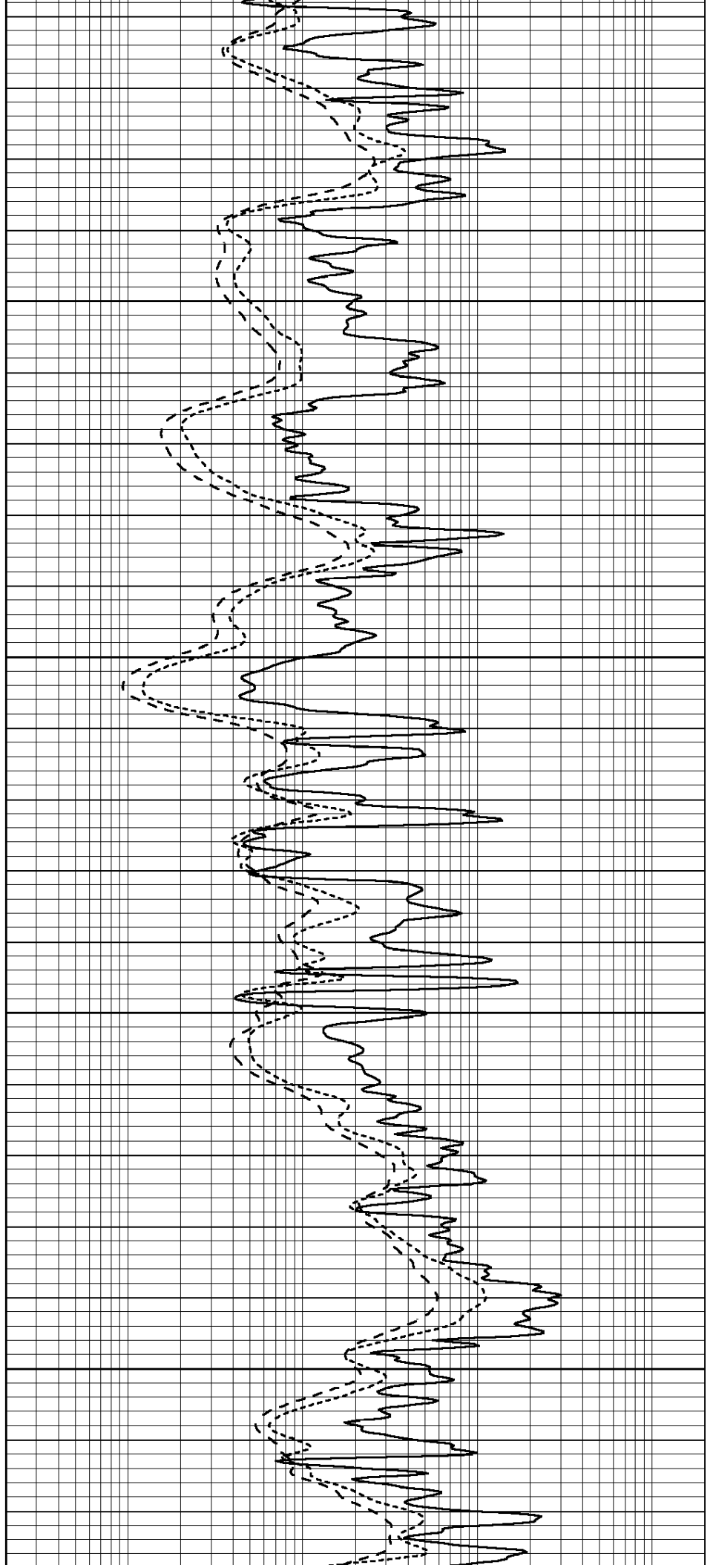


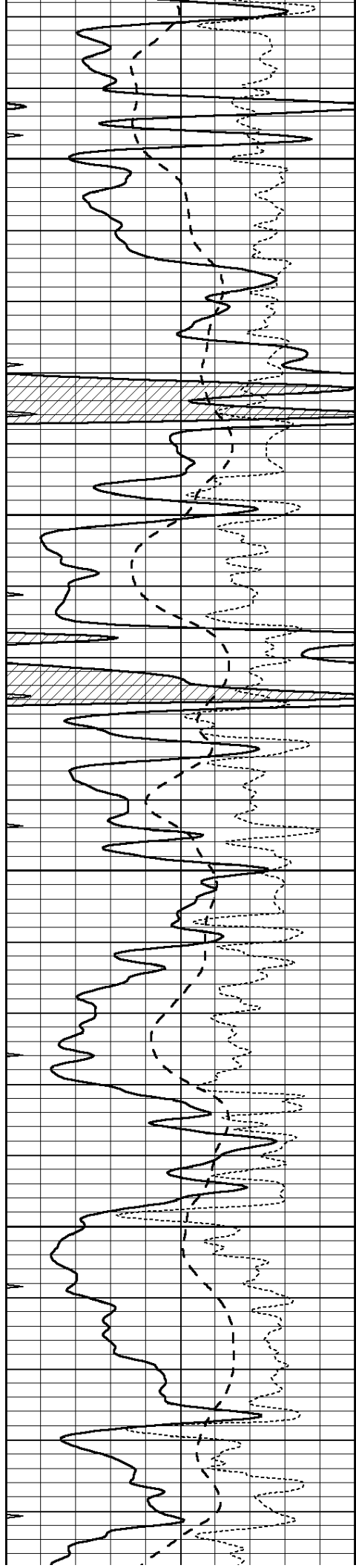
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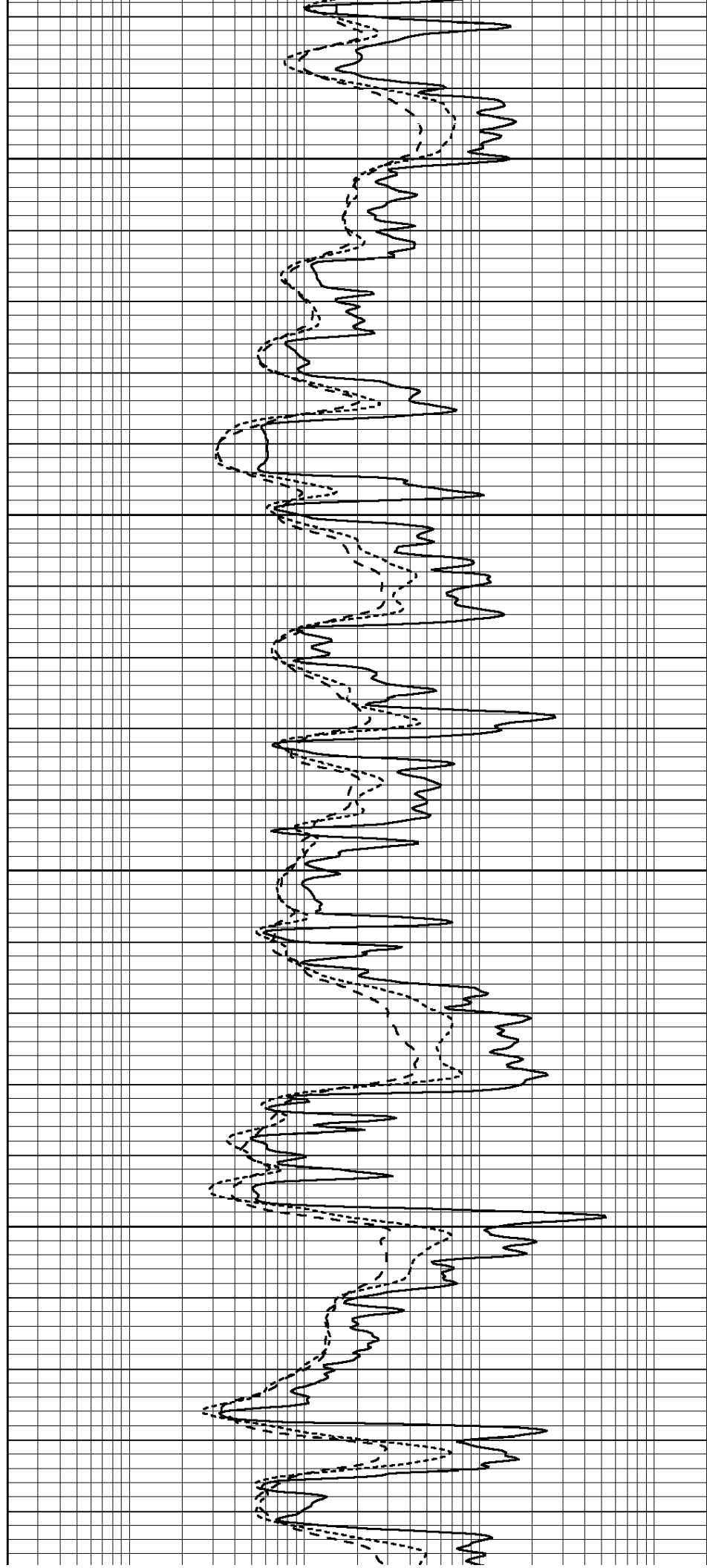


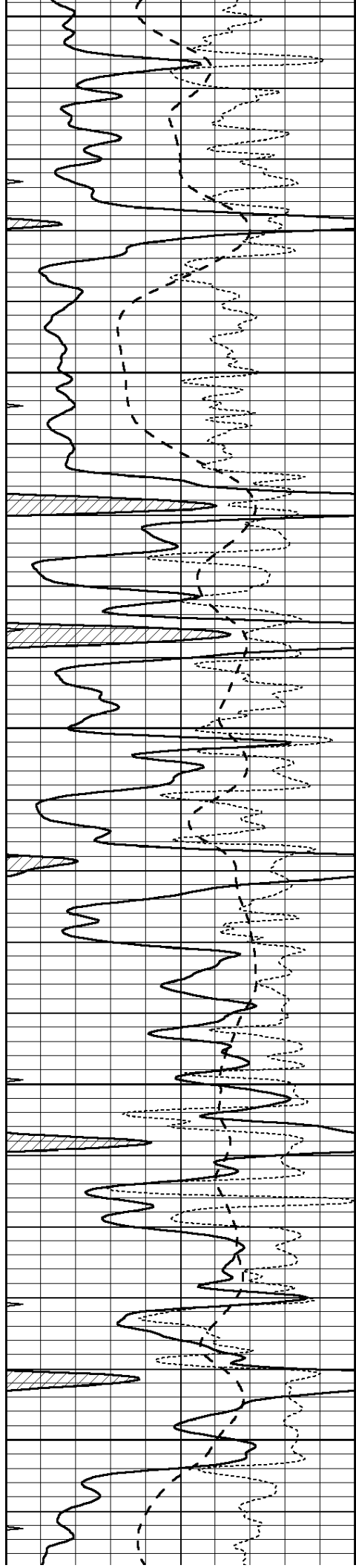
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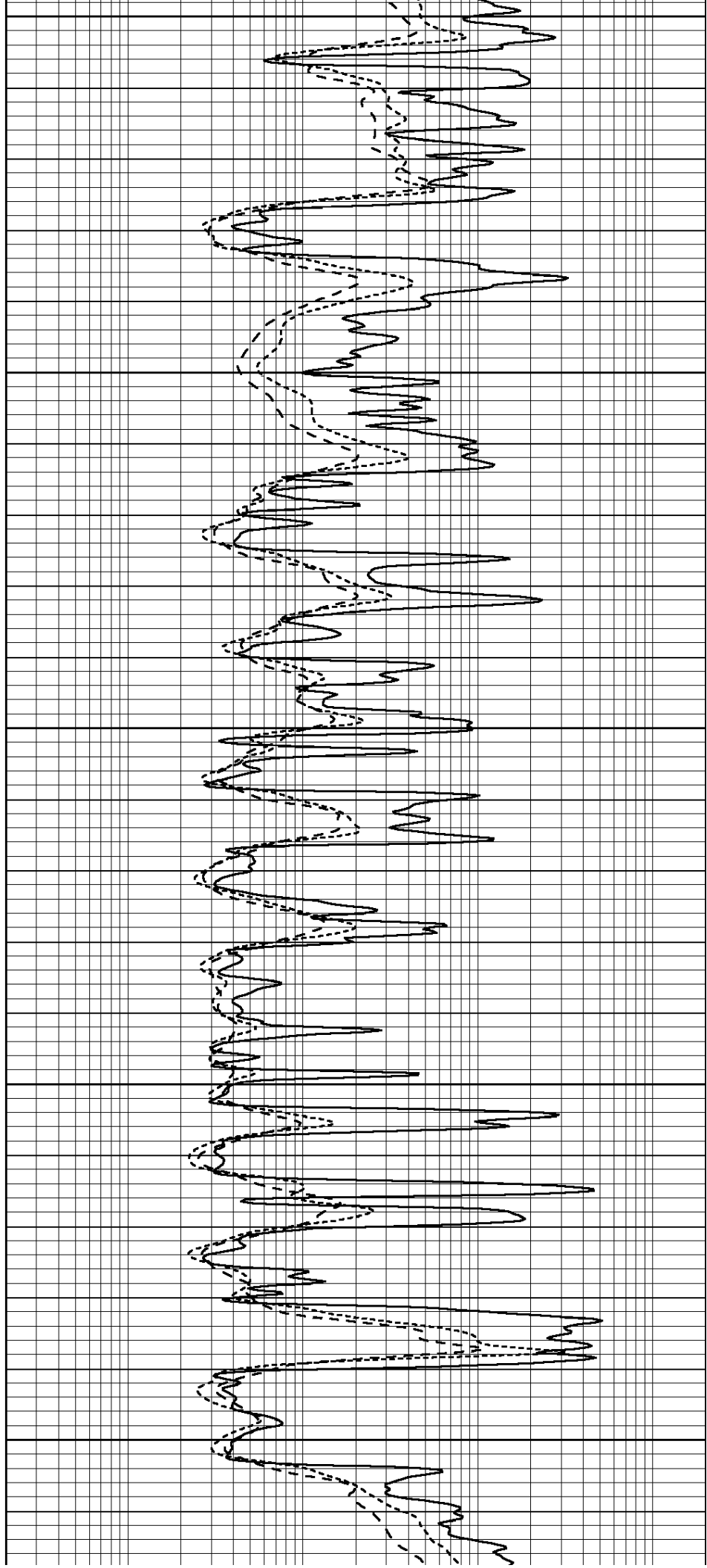
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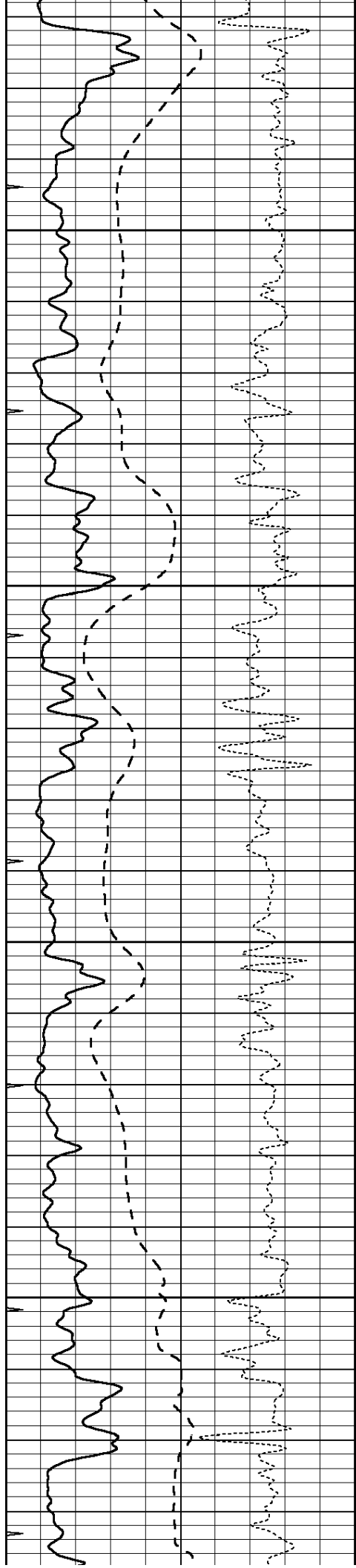
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5150

5200

5250



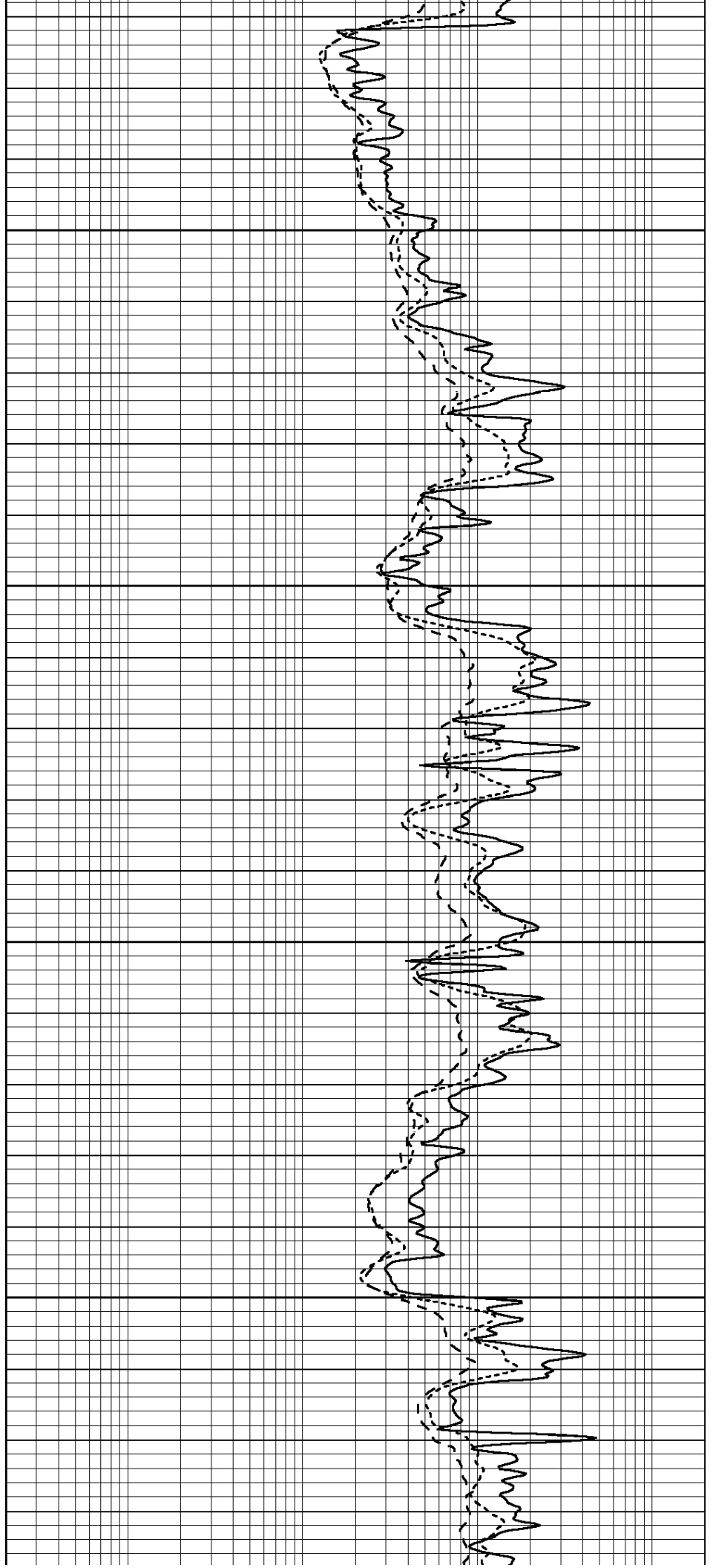


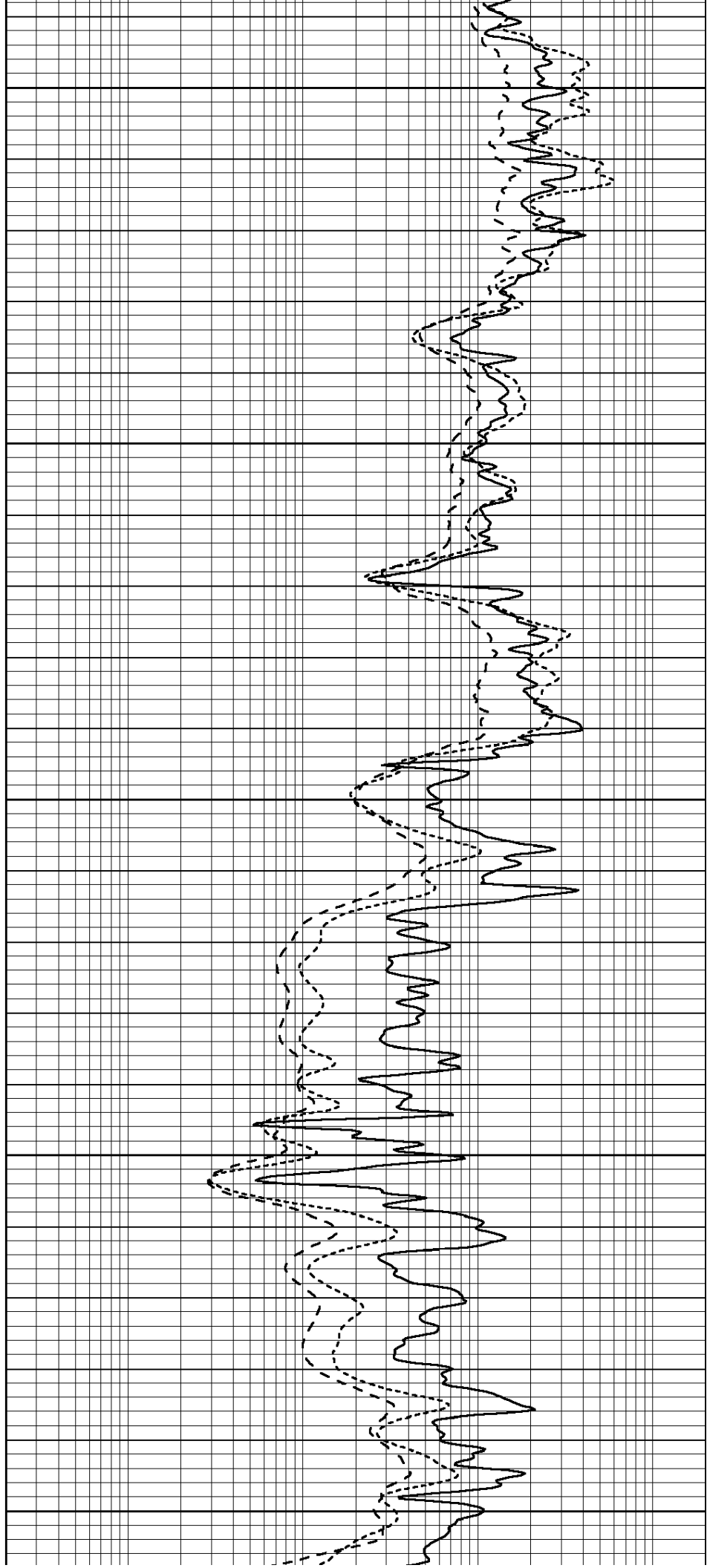
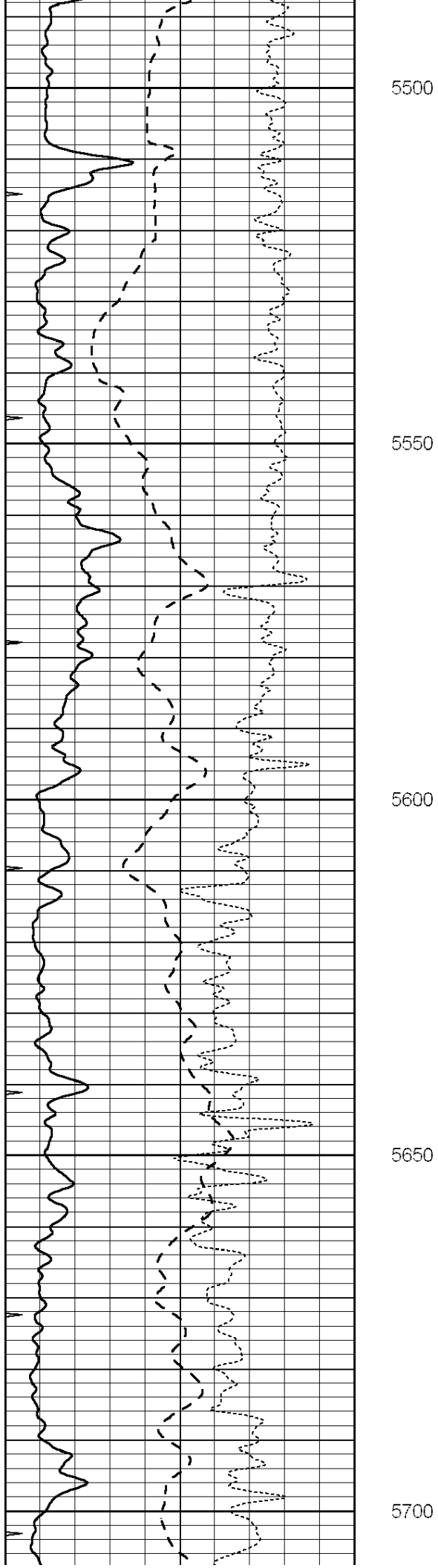
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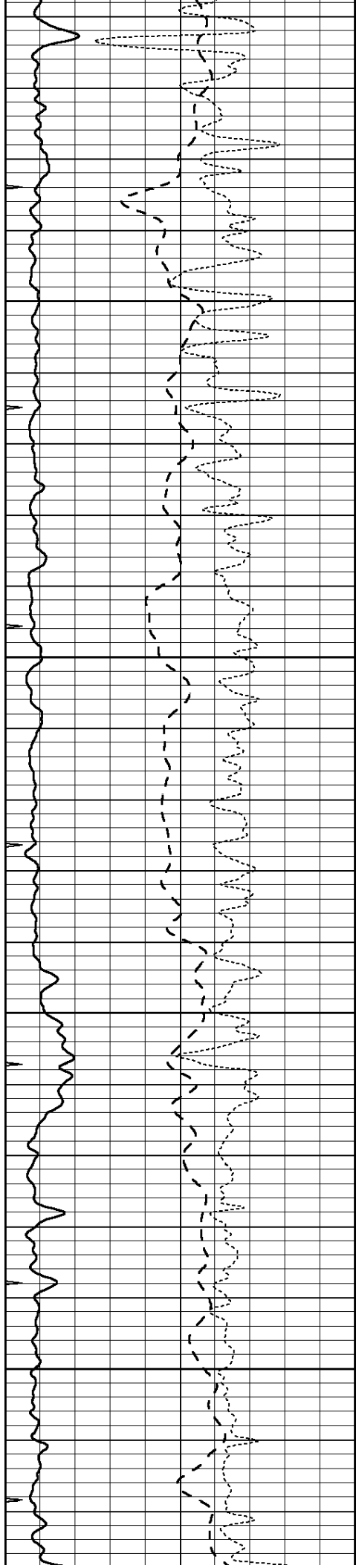
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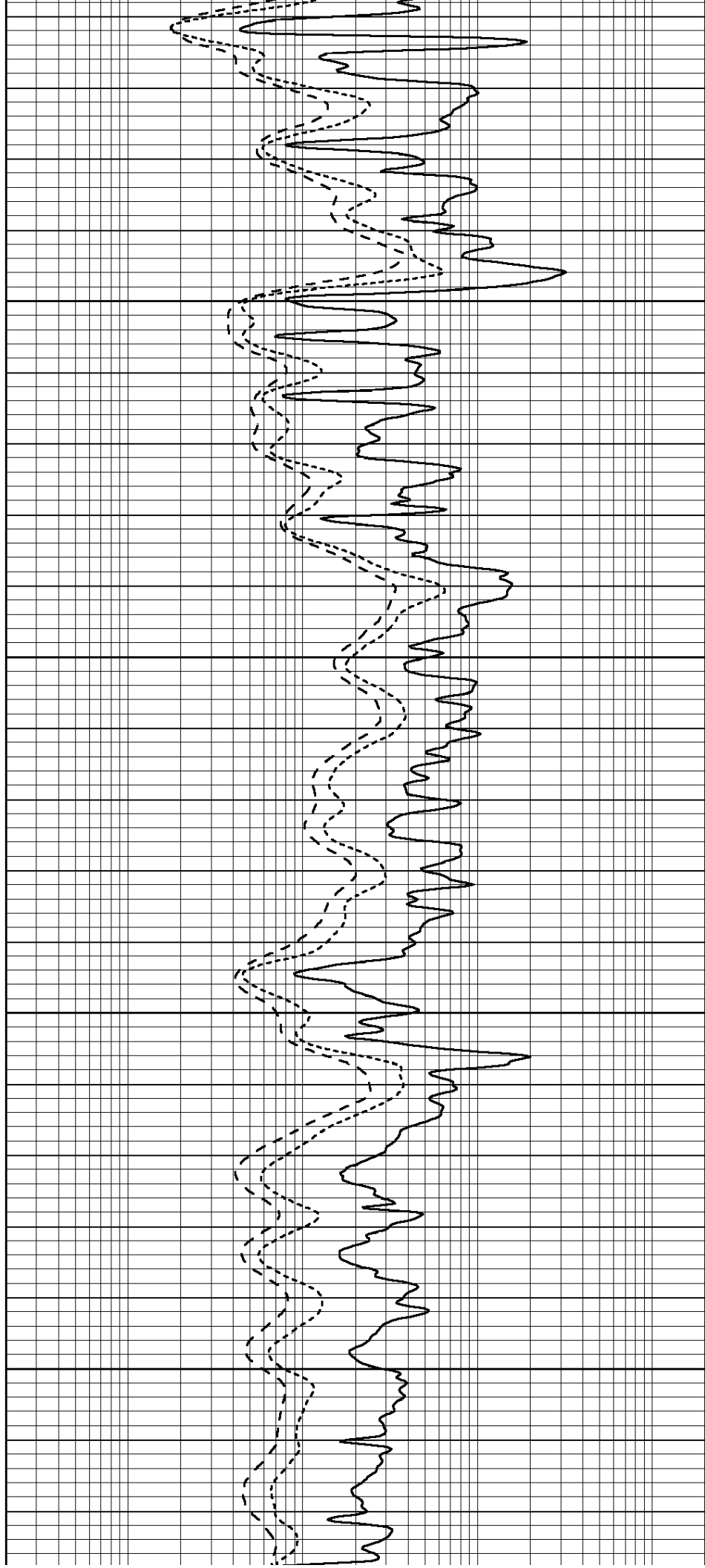


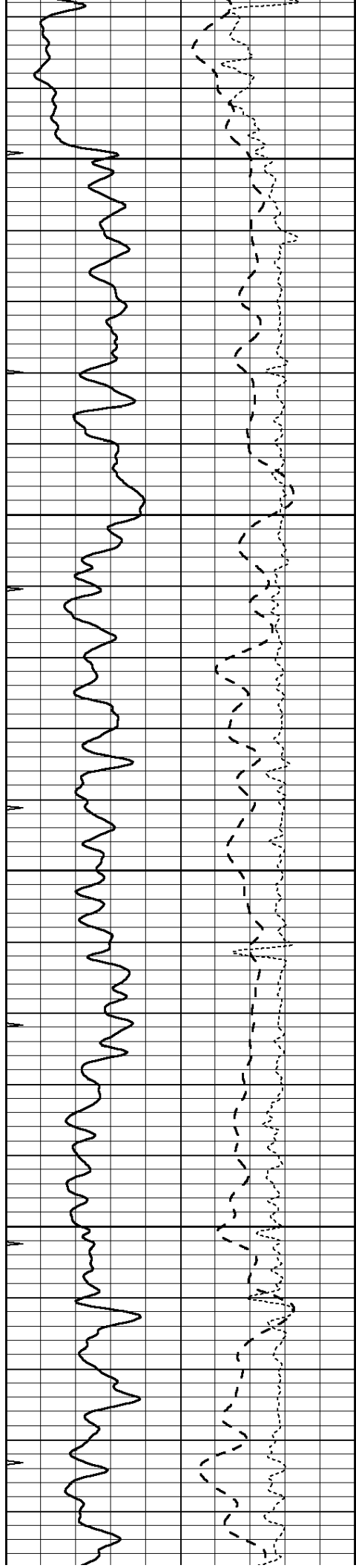
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5900



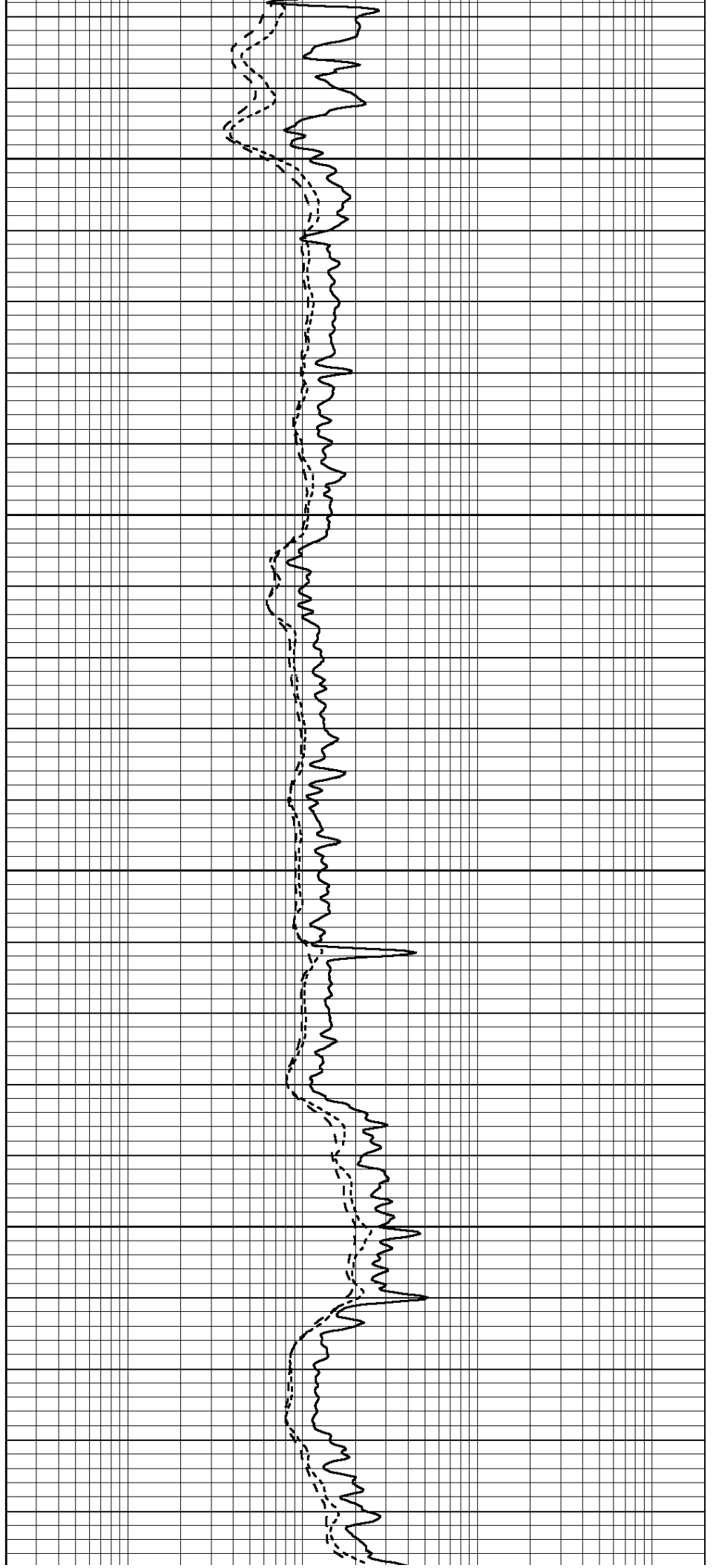


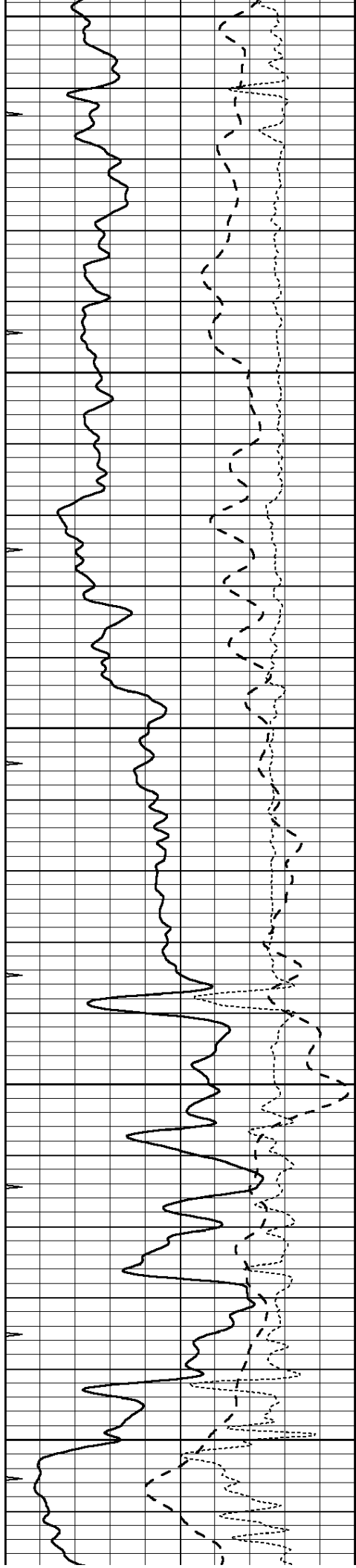
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6050

6100





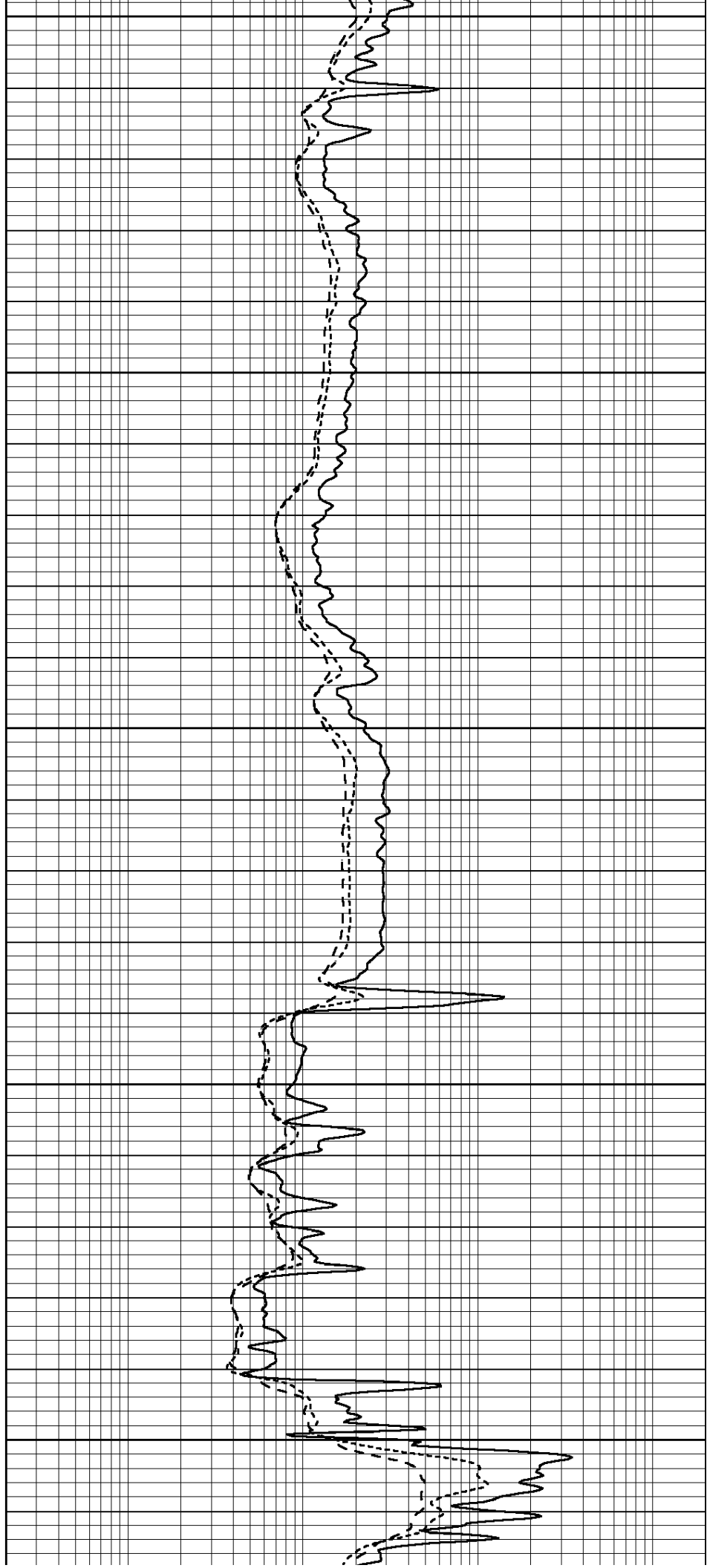
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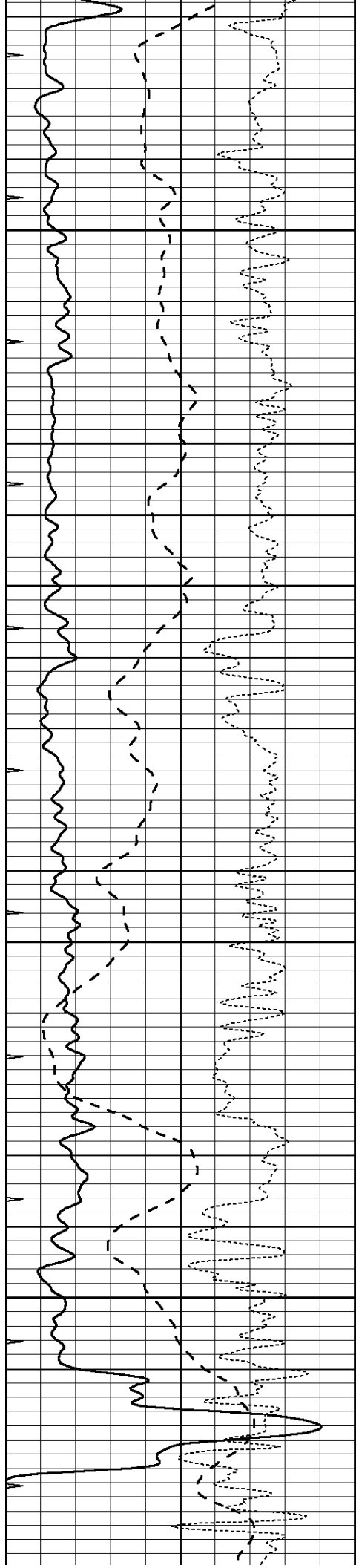
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6250

6300

6350



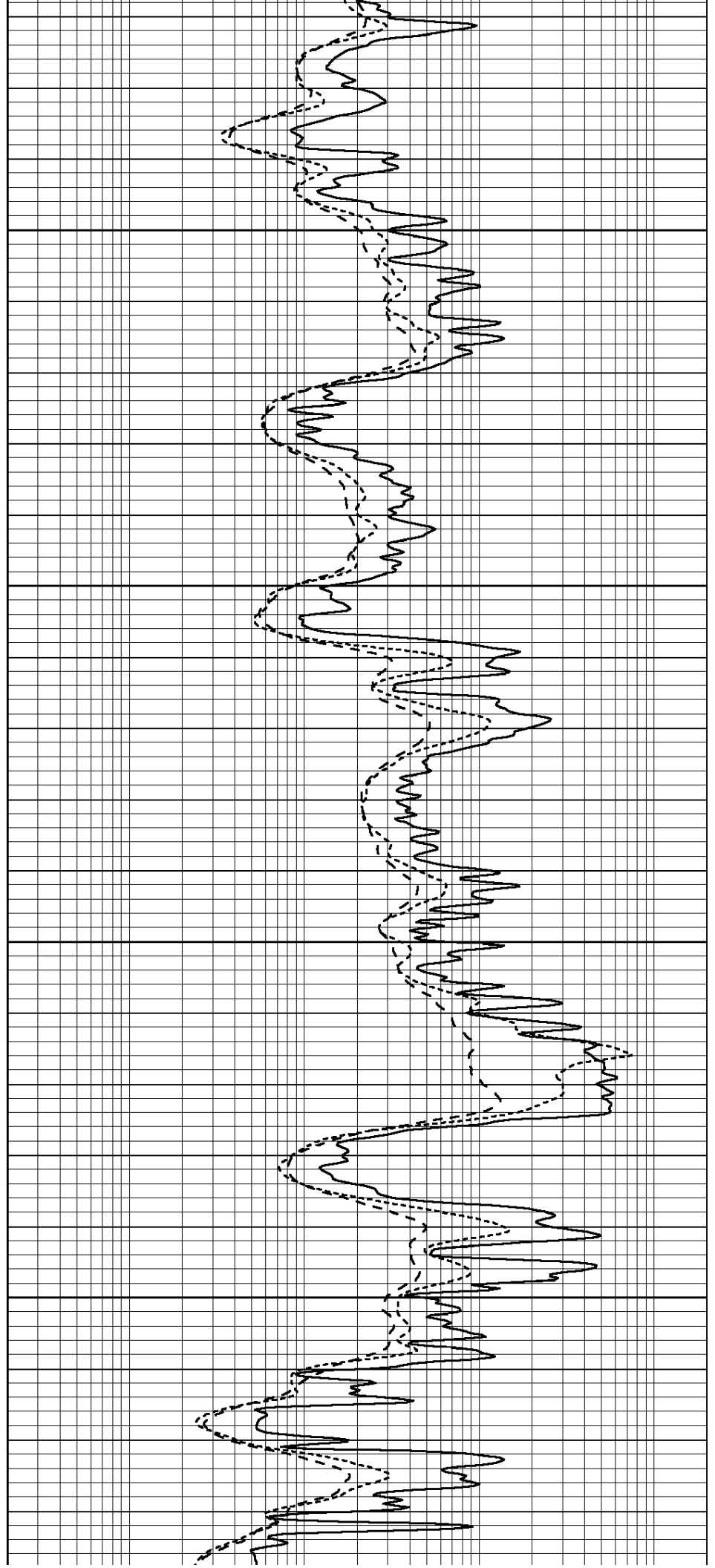


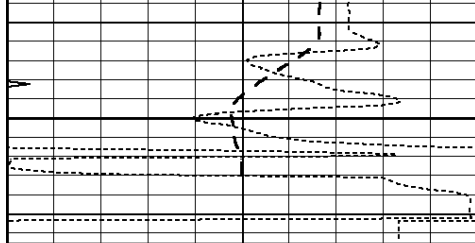
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6450

6500

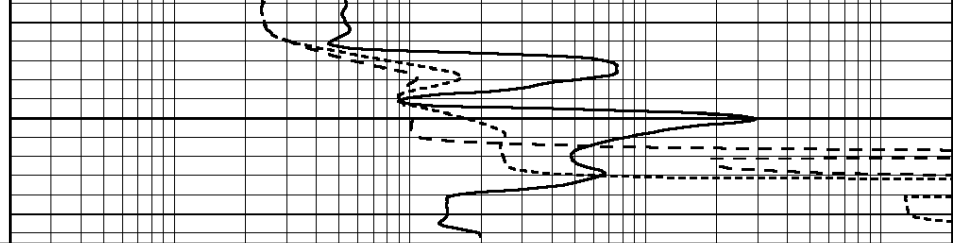
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6600

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

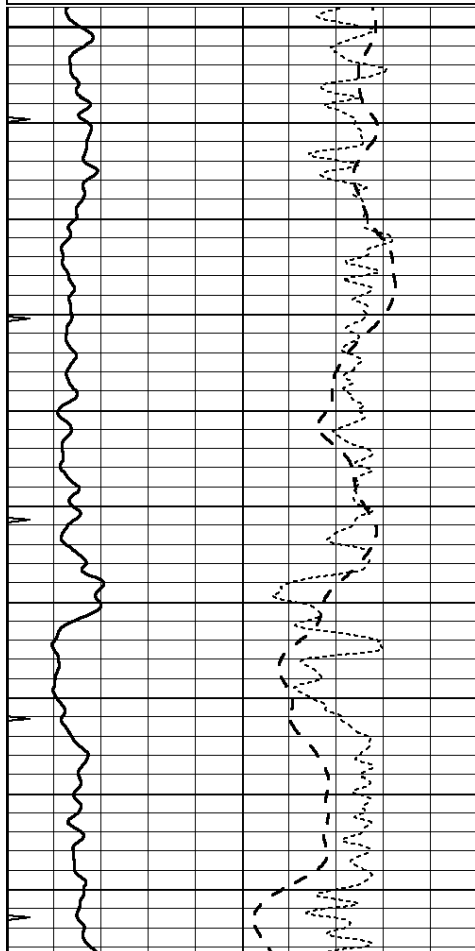


REPEAT SECTION

Database File: 010050pe.db
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 Presentation Format: _dil
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 Charted by: Depth in Feet scaled 1:240

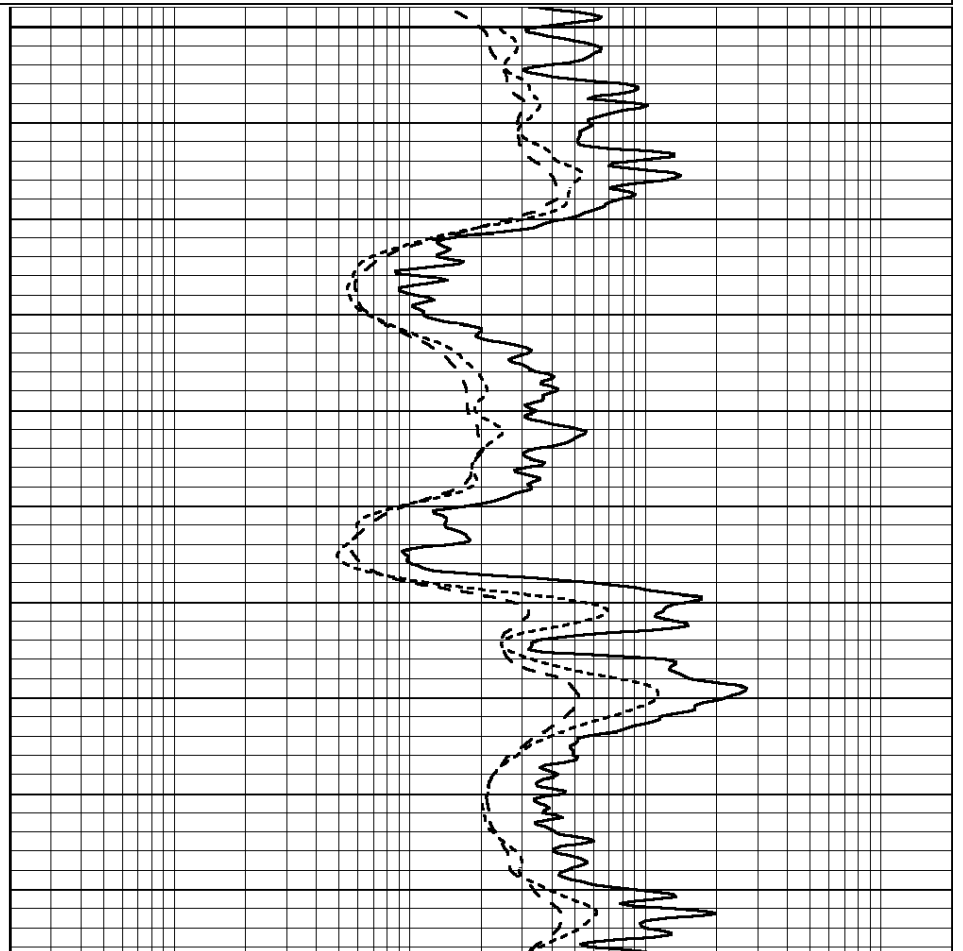
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

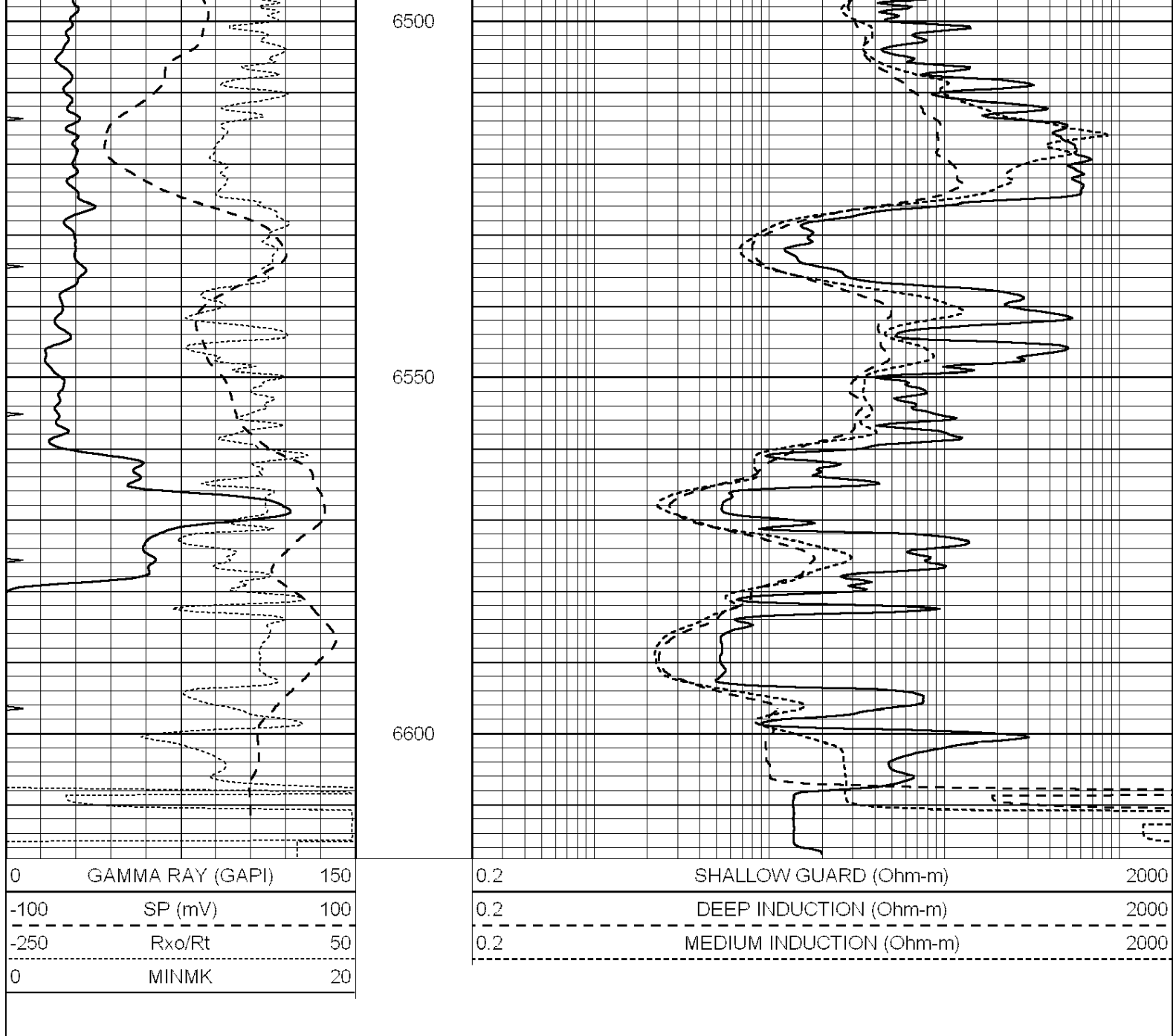
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



6400

6450





Calibration Report

Database File: 010050pe.db
 Dataset Pathname: pass3.10
 Dataset Creation: Thu Jan 24 11:22:56 2013 by Calc SOC 120430

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Thu Jan 24 09:12:42 2013
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings			V	References		Results	
	Air	Loop			Air	Loop	m	b
Deep	-0.014	0.629		0.000	400.000	mmho/m	621.923	-6.000
Medium	0.039	0.728		0.000	464.000	mmho/m	640.000	-14.500
Internal:	Zero	Cal		Zero	Cal		m	b

Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
	Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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
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 Sun Aug 15 09:48:41 2010				
	Background	Magnesium	Aluminum	Sandstone		
Window 1	1686.6	11612.8	3932.0	12718.8	cps	
Window 2	1531.4	9204.7	3267.8	9851.9	cps	
Window 3	1198.3	4733.6	1952.5	4920.6	cps	
Window 4	317.3	321.2	325.9	303.6	cps	
Long Space	0.0	7673.3	1736.4	8320.4	cps	
Short Space	1.7	2548.5	1657.2	2628.8	cps	
Rho		1.7100	2.5900	1.3800	g/cc	
Pe		0.0000	2.5700	1.5500		
Rib Angle	: 43.8	Rib Slope	: 0.961	Density/Spine Ratio	: 0.569	
Spine Angle	: 73.8	Spine Slope	: 3.453	Spine Intercept	: -18.1	

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: 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: Thu Jan 24 08:55:50 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps