



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company LARIO OIL & GAS COMPANY	
Well LUMBERT #1-2	
Field	
County SUMNER	State KANSAS
Location: API # : 15-191-22569-0000	
80' E & 10' S OF S/2 - NW - SW - SE	
815' FSL & 2230' FEL	
SEC 2 TWP 33S RGE 1W	
Permanent Datum GROUND LEVEL	Elevation 1224
Log Measured From KELLY BUSHING 8' A.G.L.	
Drilling Measured From KELLY BUSHING	
Other Services CNL/CDL PE MEL/SON	
Elevation K.B. 1232 D.F. 1230 G.L. 1224	
Date 11/24/09	
Run Number CNE	
Depth Driller 4401	
Depth Logger 4402	
Bottom Logged Interval 4400	
Top Log Interval 0	
Casing Driller 8 5/8" @ 297'	
Casing Logger 305'	
Bit Size 7 7/8	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 3,000 PPM
Density / Viscosity 9.1 / 53	
pH / Fluid Loss 10.0 / 8.8	
Source of Sample FLOWLINE	
Rm @ Meas. Temp 0.75 @ 79F	
Rmf @ Meas. Temp 0.56 @ 79F	
Rmc @ Meas. Temp 0.90 @ 79F	
Source of Rmf / Rmc MEASUREMENT	
Rm @ BHT 0.50 @ 119F	
Time Circulation Stopped 2 HOURS	
Time Logger on Bottom	
Maximum Recorded Temperature 119F	
Equipment Number 0836	
Location HAYS, KANSAS	
Recorded By DAN GOTTSCHALK	
Witnessed By VERN SCHRAG	

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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
HWY 160 & HWY 81 - WEST EDGE OF WELLINGTON - 3 1/2 SOUTH TO 50TH - 1 EAST -
1/2 SOUTH - WEST INTO

Database File: 004631pe.db
Dataset Pathname: pass5.2
Presentation Format: dil2
Dataset Creation: Tue Nov 24 18:48:49 2009 by Calc Open-Cased 060407

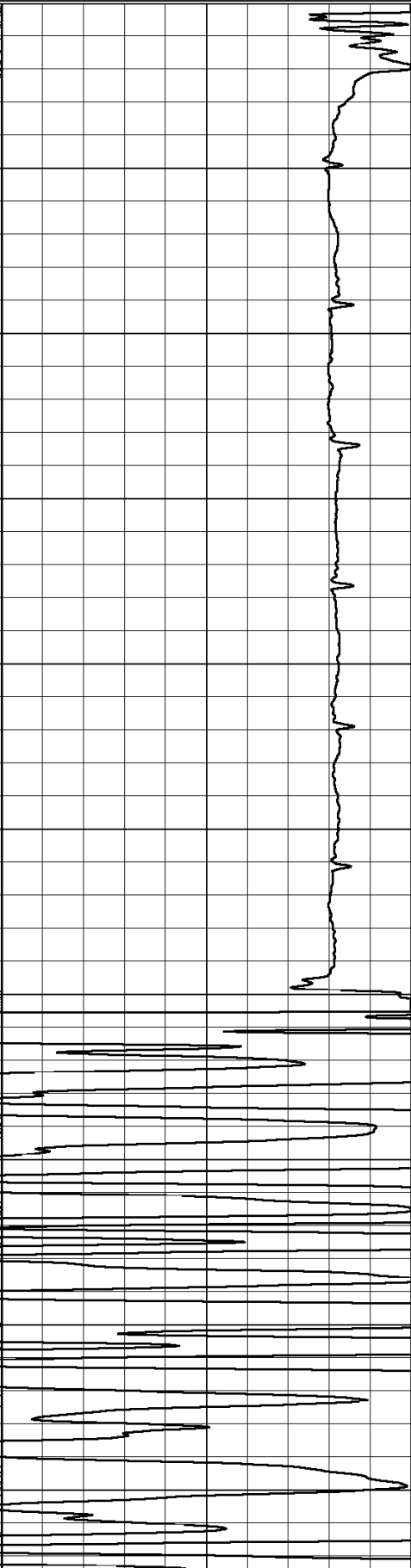
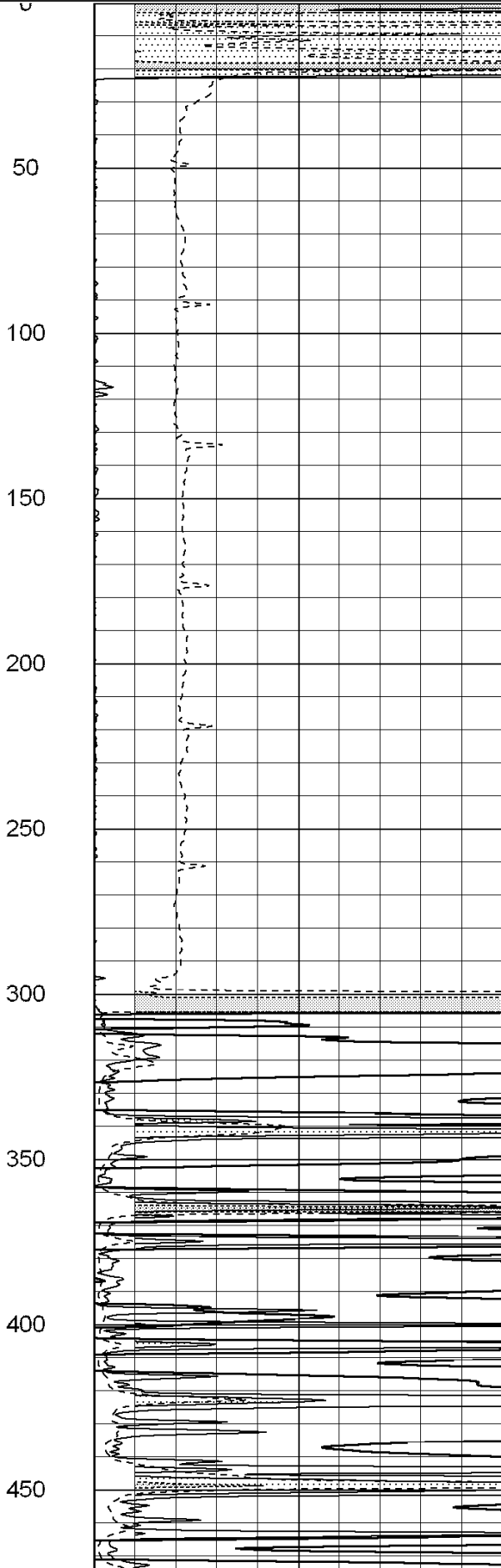
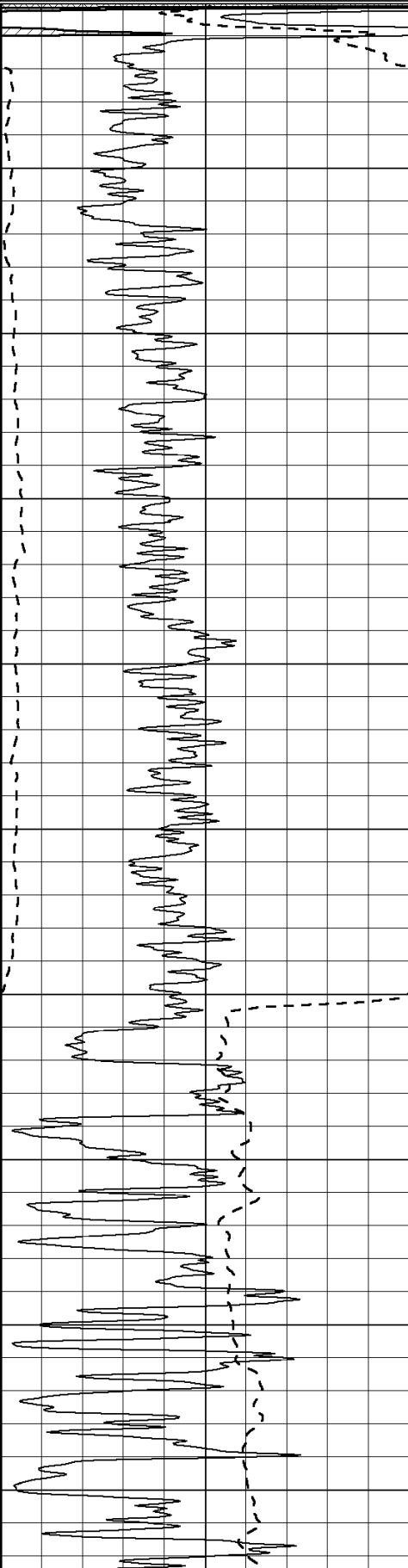
Charted by:

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



500

550

600

650

700

750

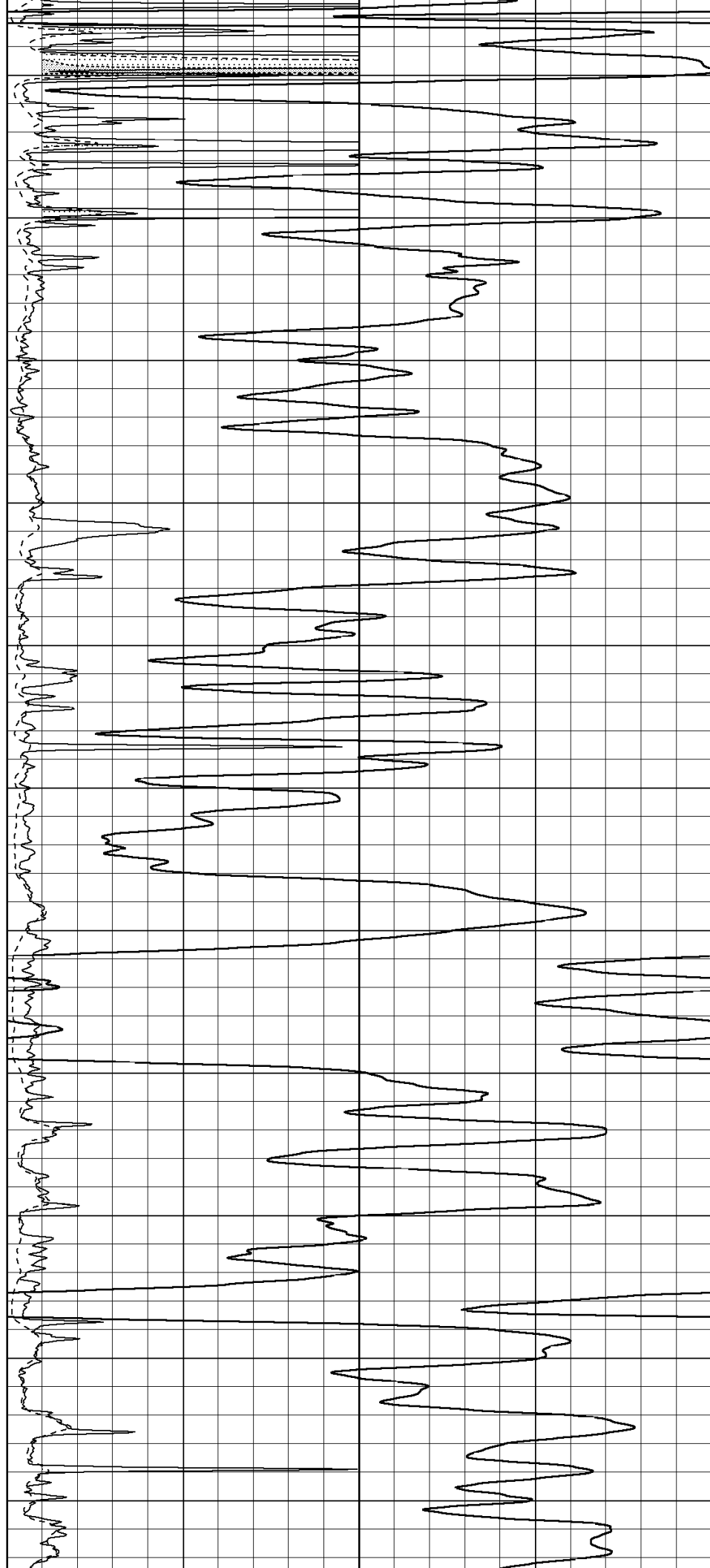
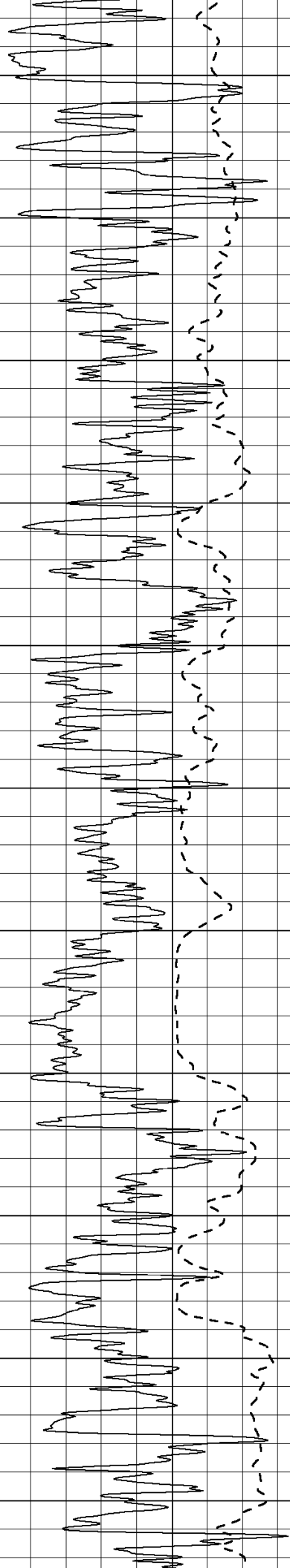
800

850

900

950

1000



1050

1100

1150

1200

1250

1300

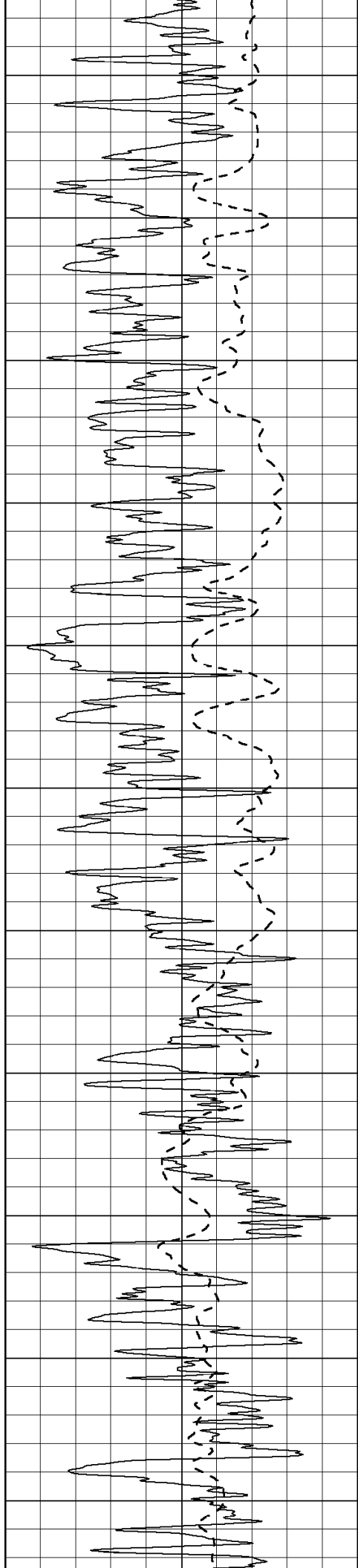
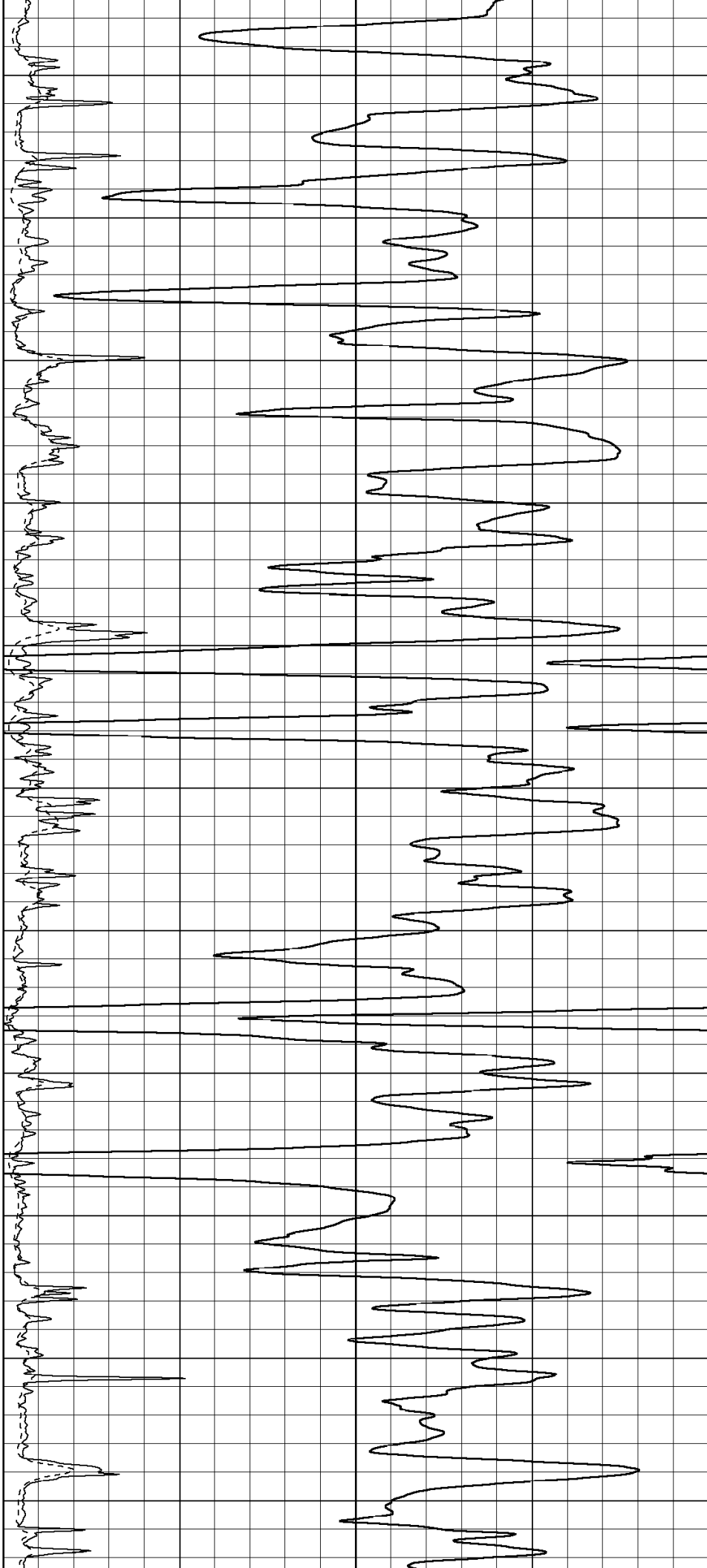
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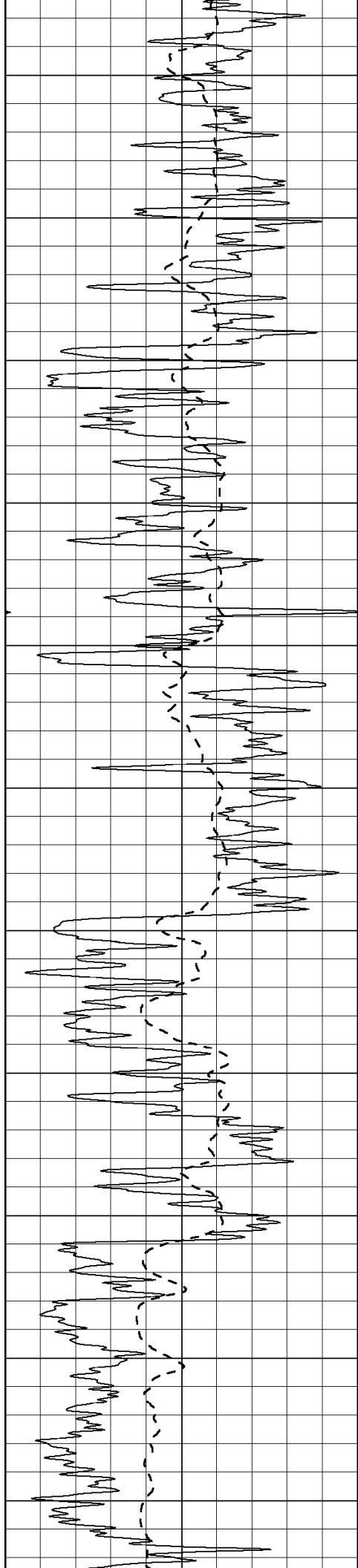
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1450

1500

1550





1600

1650

1700

1750

1800

1850

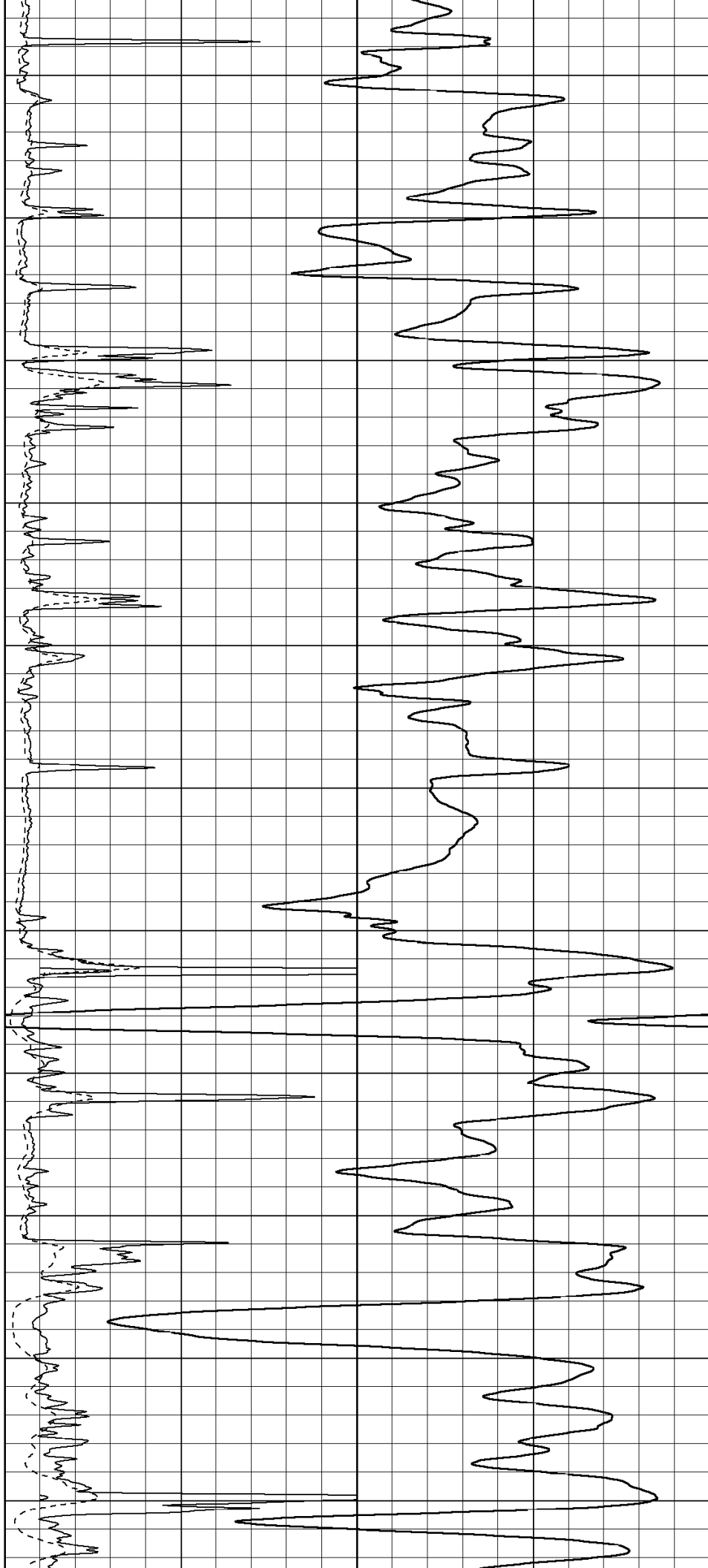
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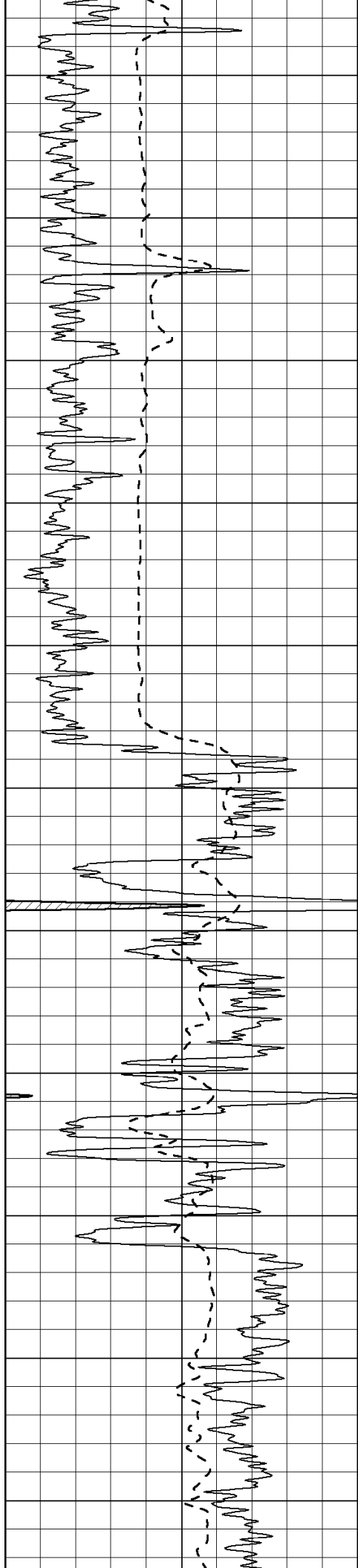
1950

2000

2050

2100





2150

2200

2250

2300

2350

2400

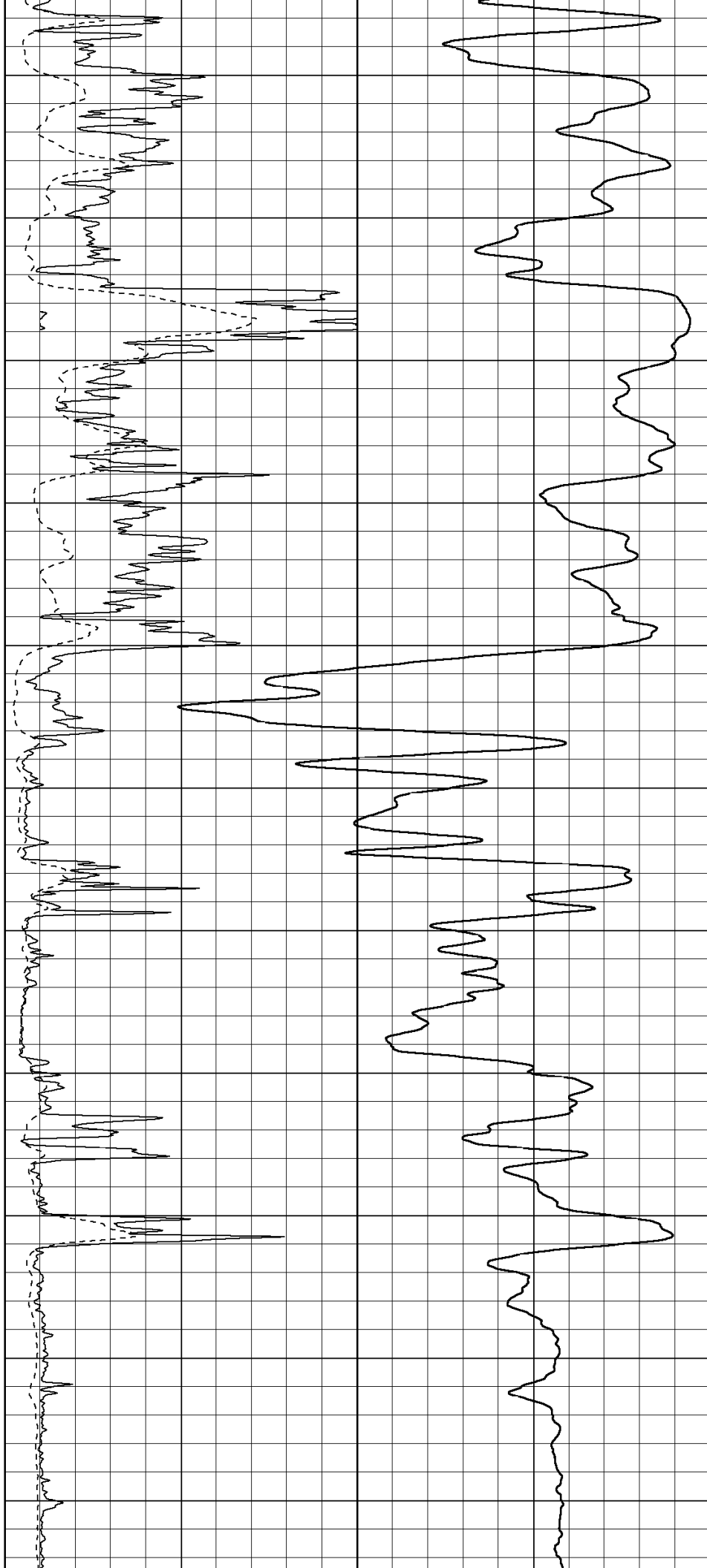
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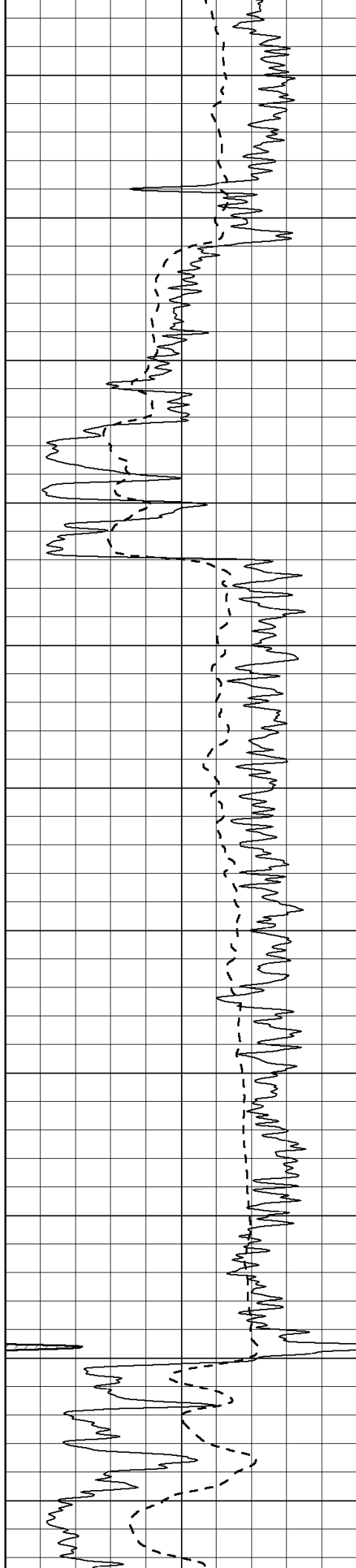
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2550

2600

2650





2700

2750

2800

2850

2900

2950

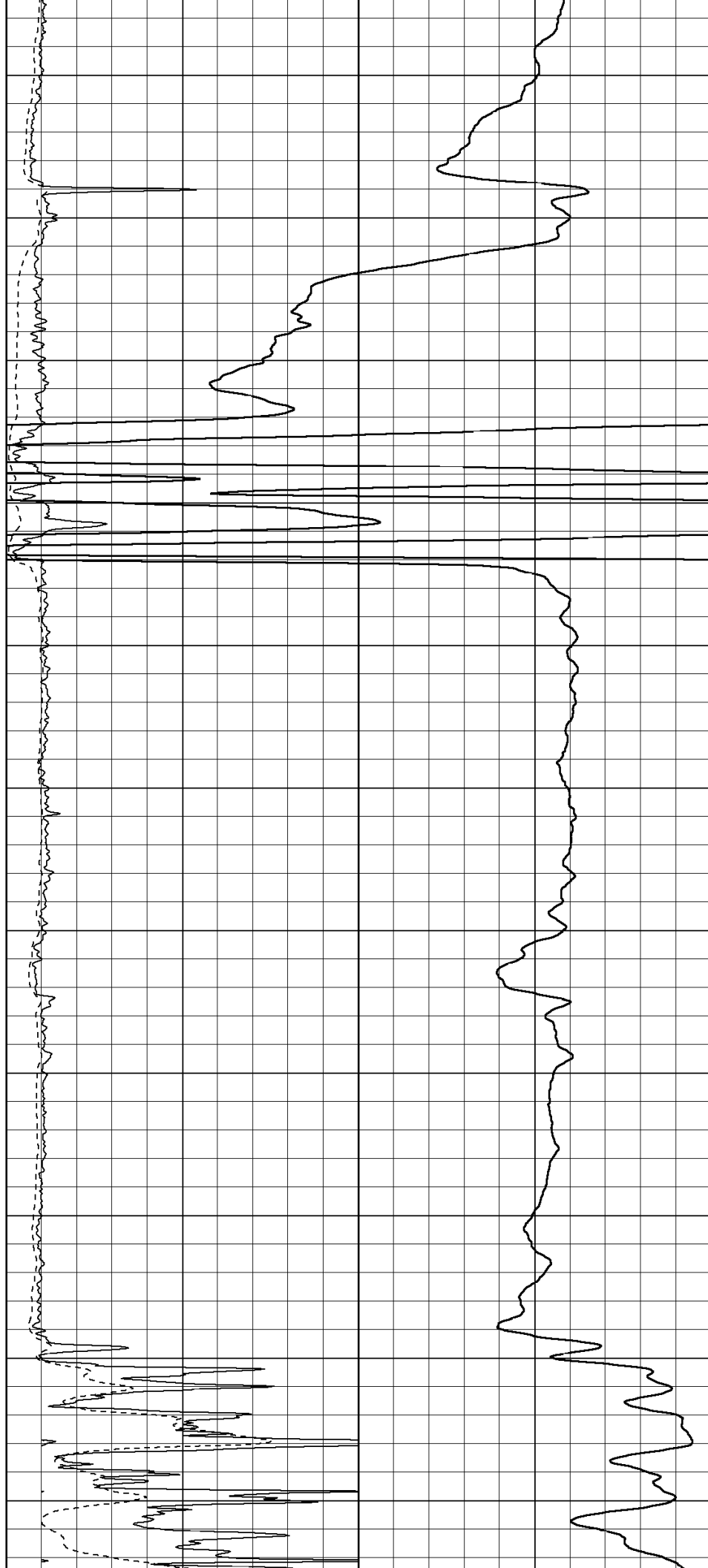
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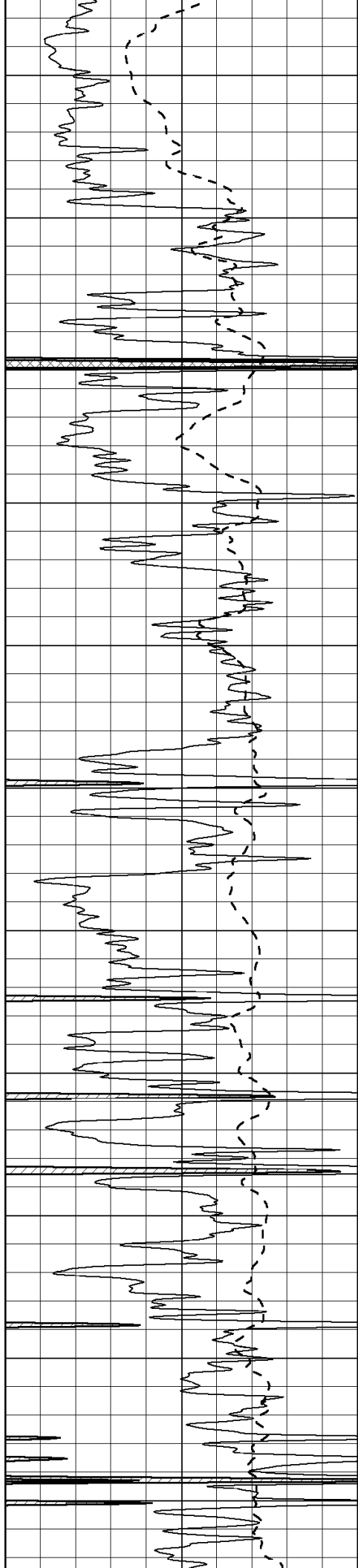
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3100

3150

3200





3250

3300

3350

3400

3450

3500

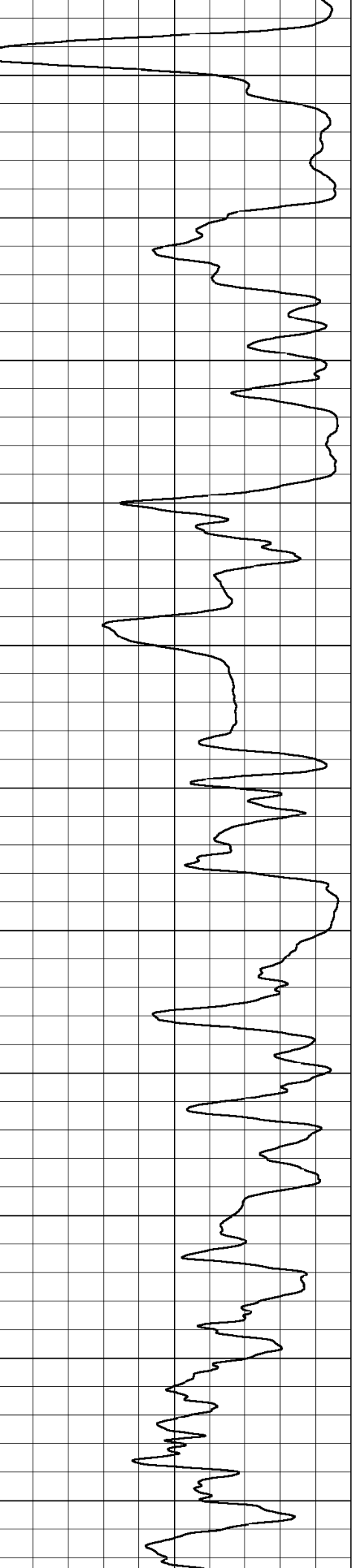
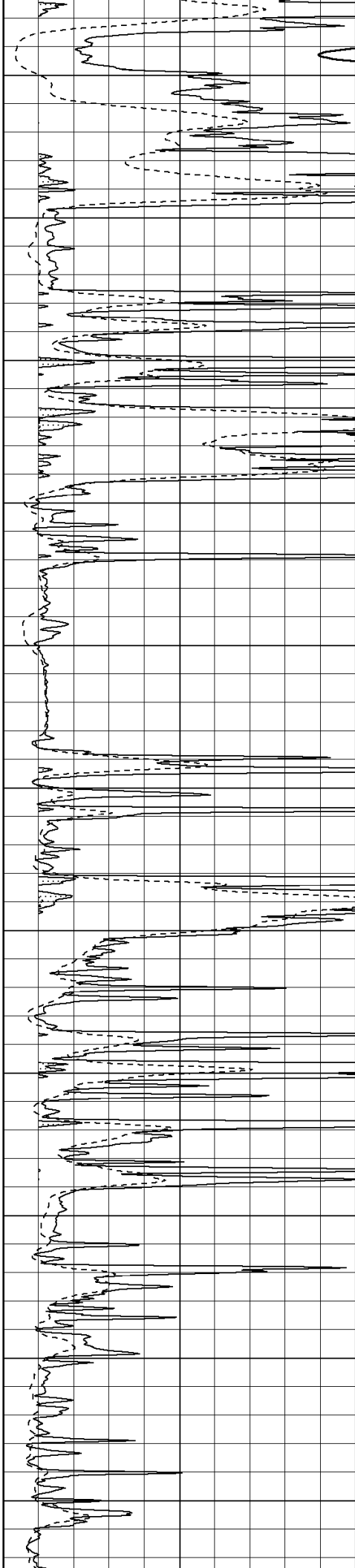
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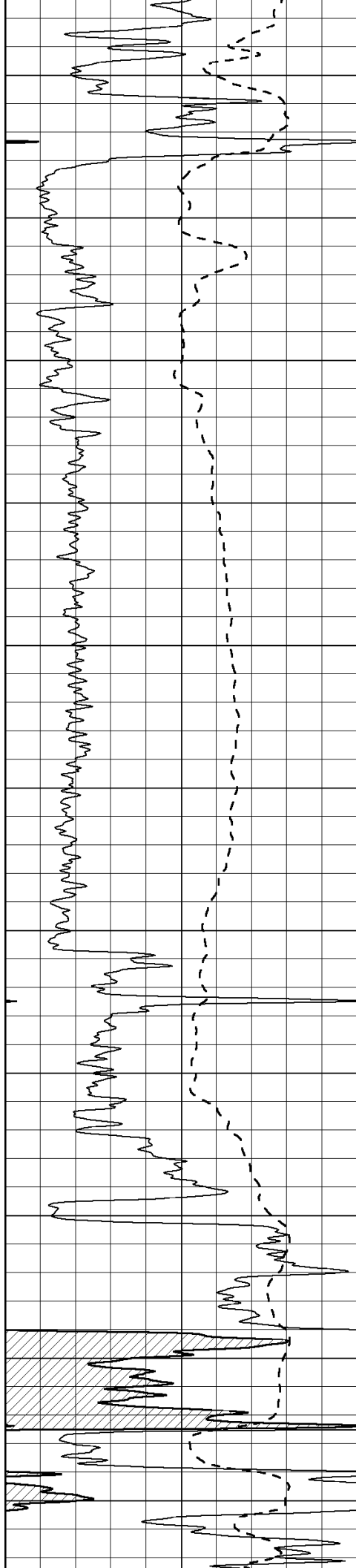
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3650

3700

3750





3800

3850

3900

3950

4000

4050

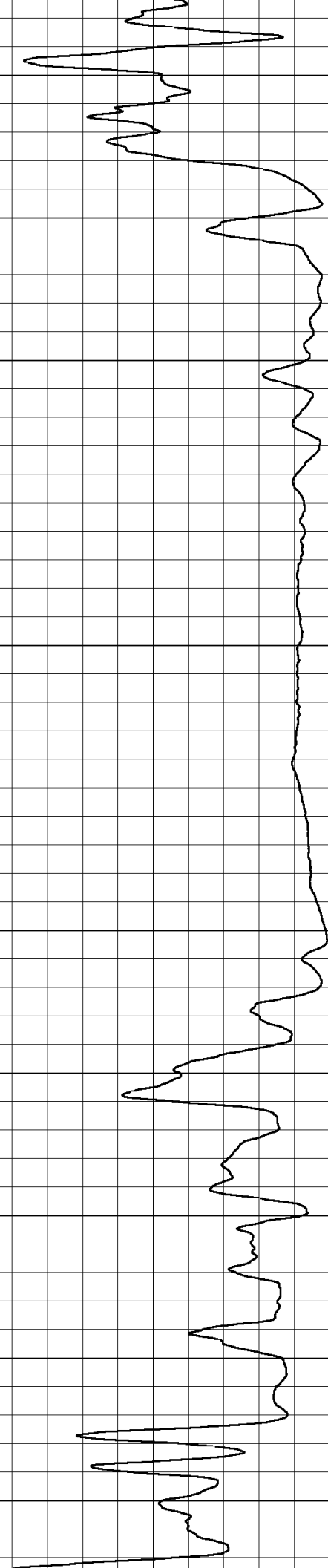
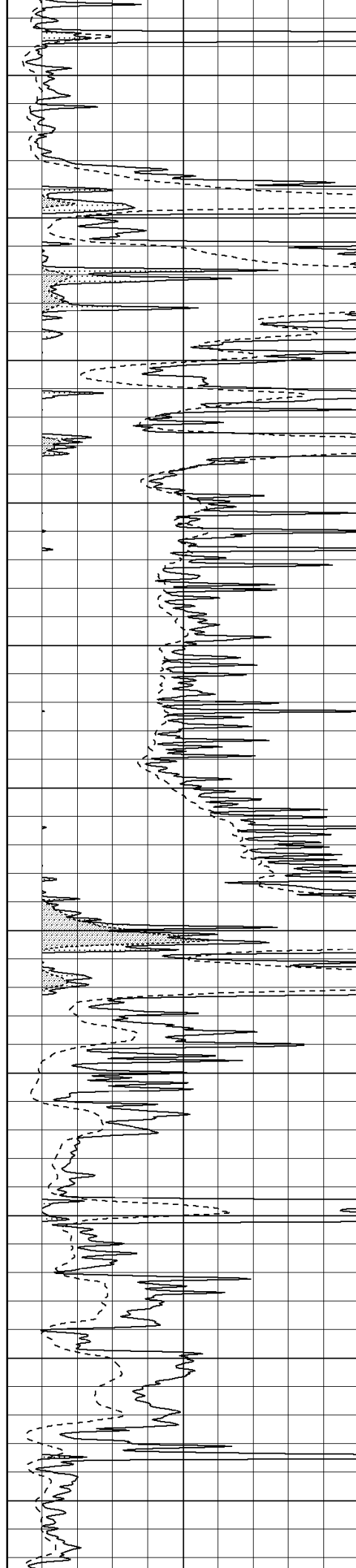
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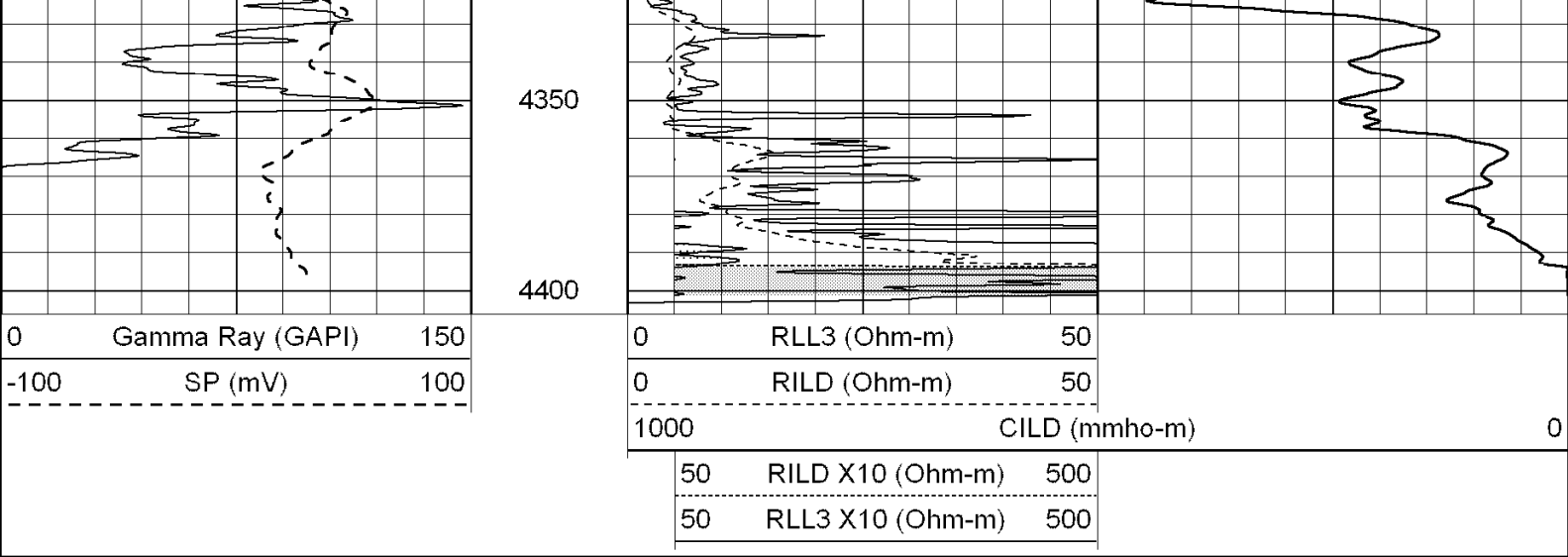
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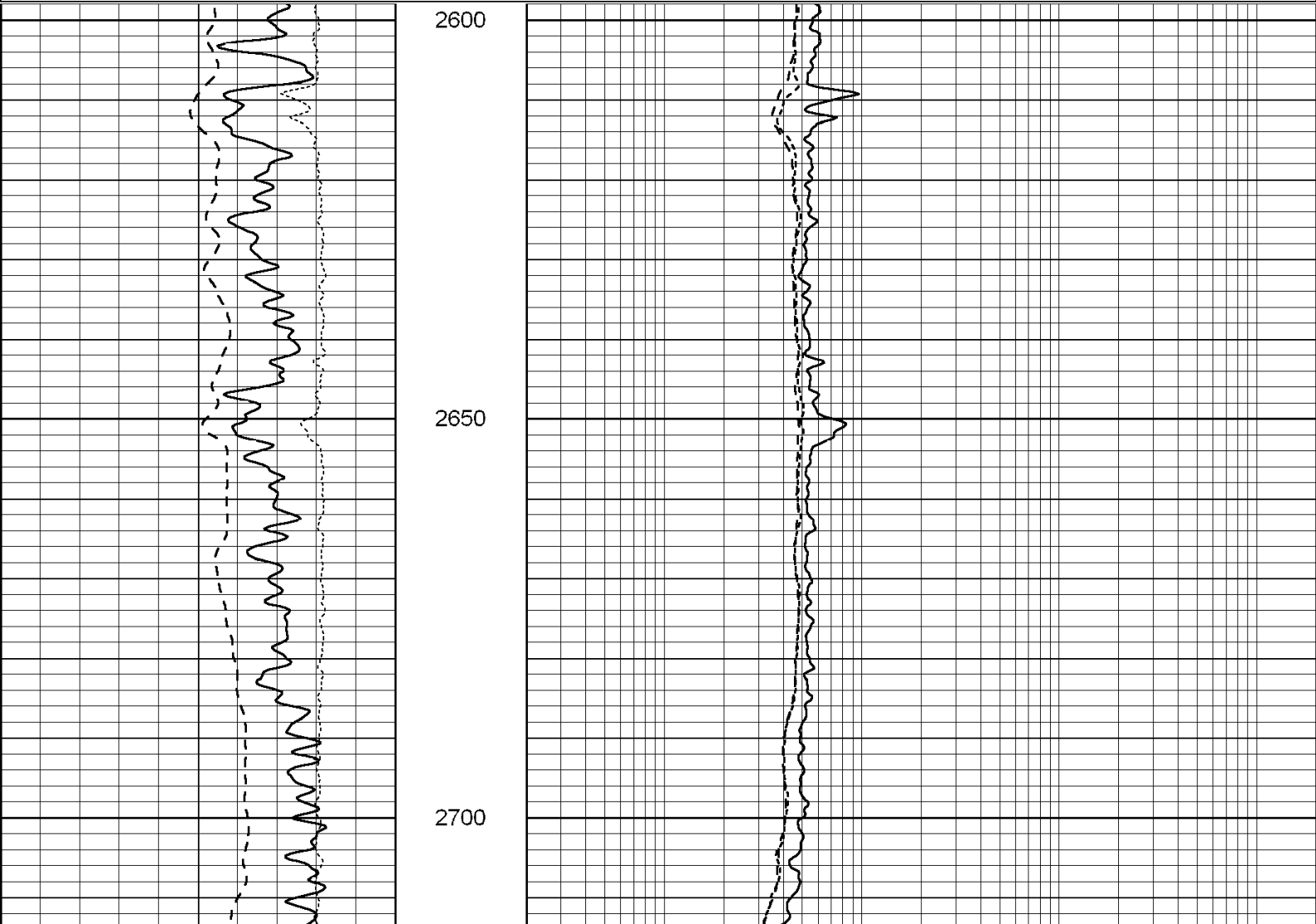
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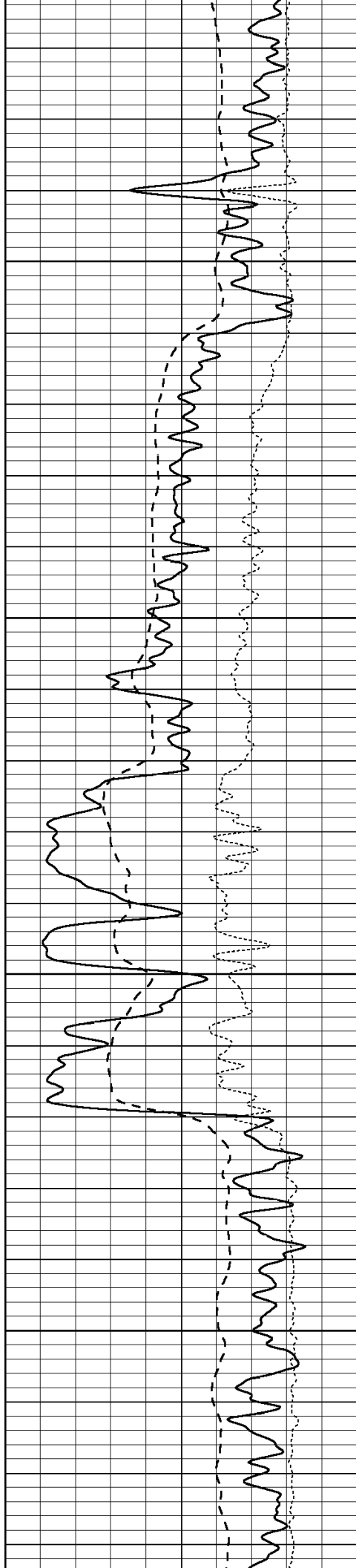




Database File:		004631pe.db	
Dataset Pathname:		pass5.2	
Presentation Format:		dil	
Dataset Creation:		Tue Nov 24 18:48:49 2009 by Calc Open-Cased 060407	
Charted by:		Depth in Feet scaled 1:240	

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



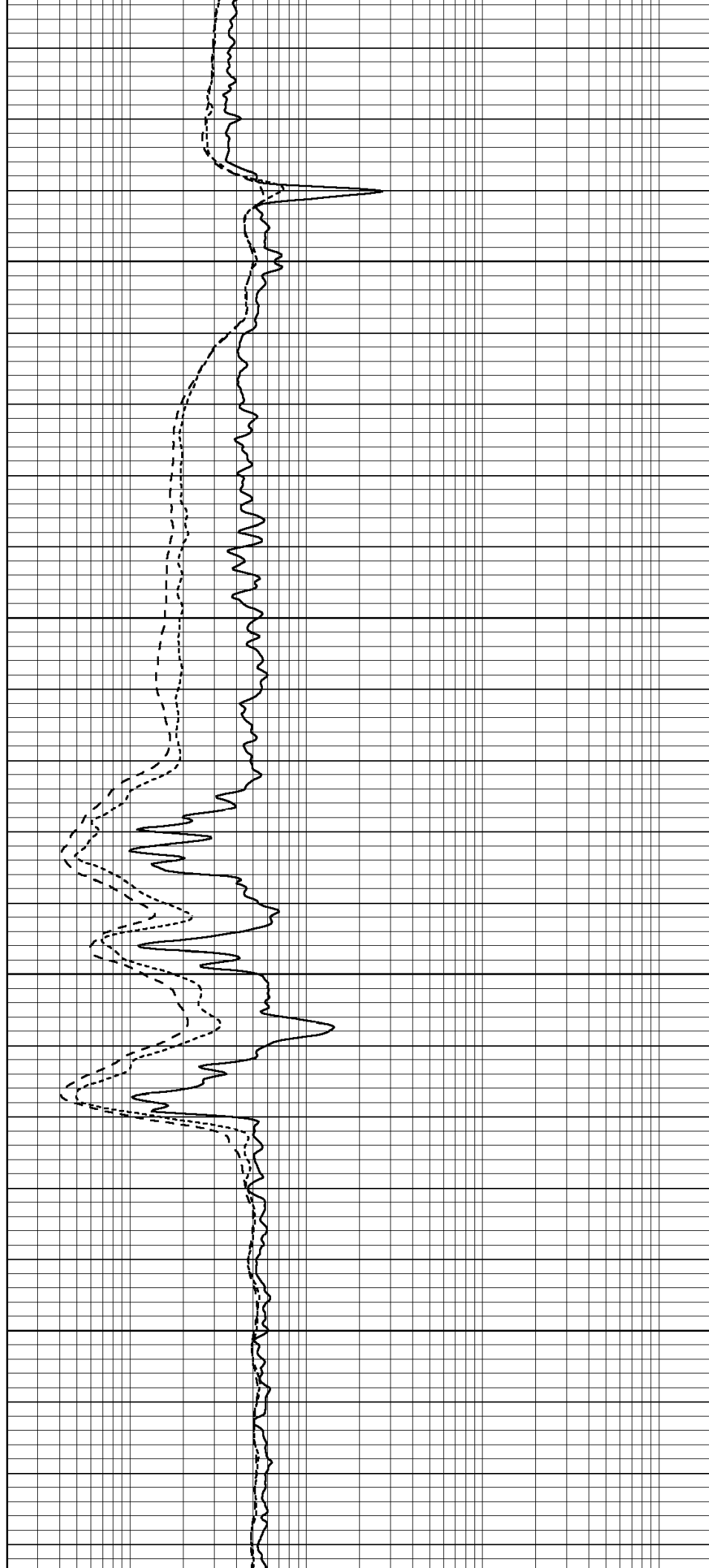


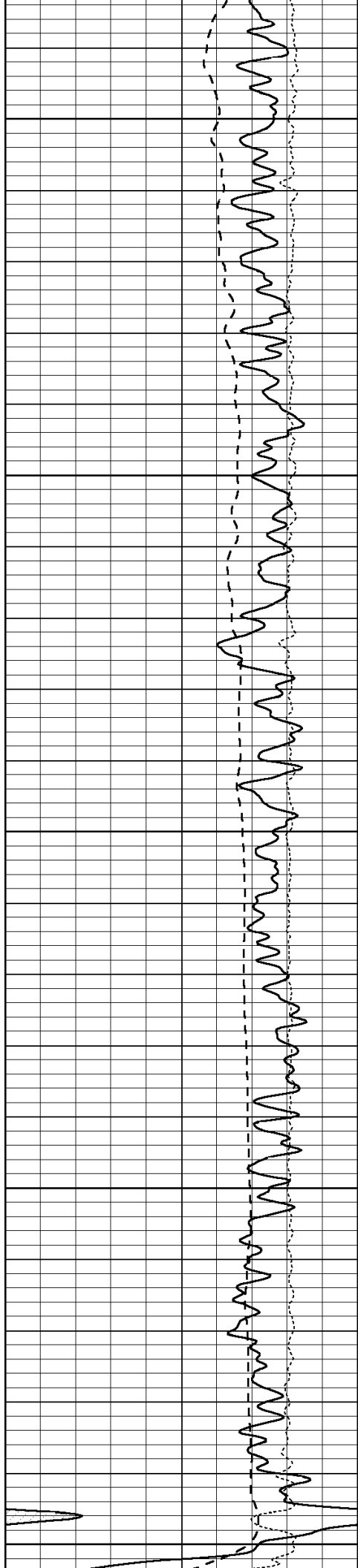
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2800

2850

2900





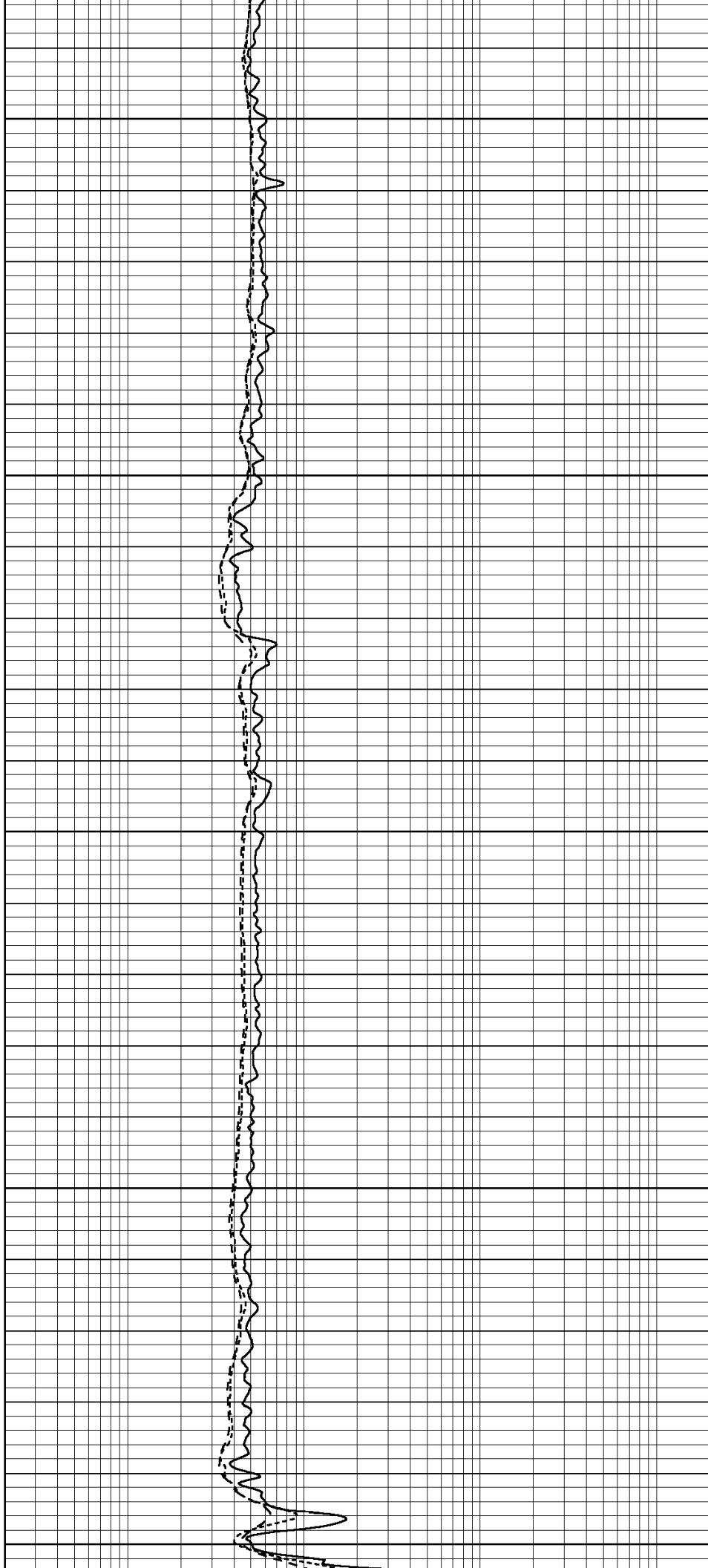
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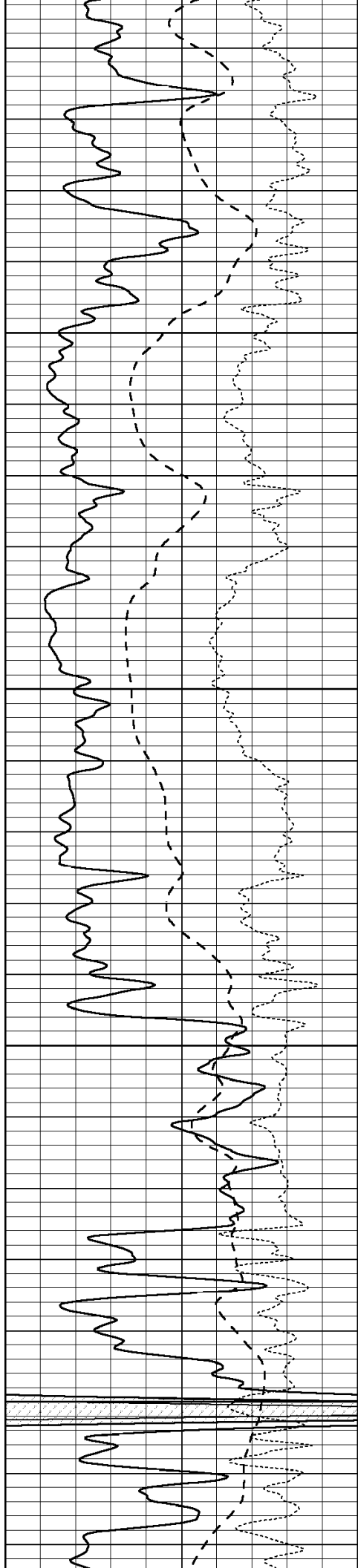
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3050

3100

3150



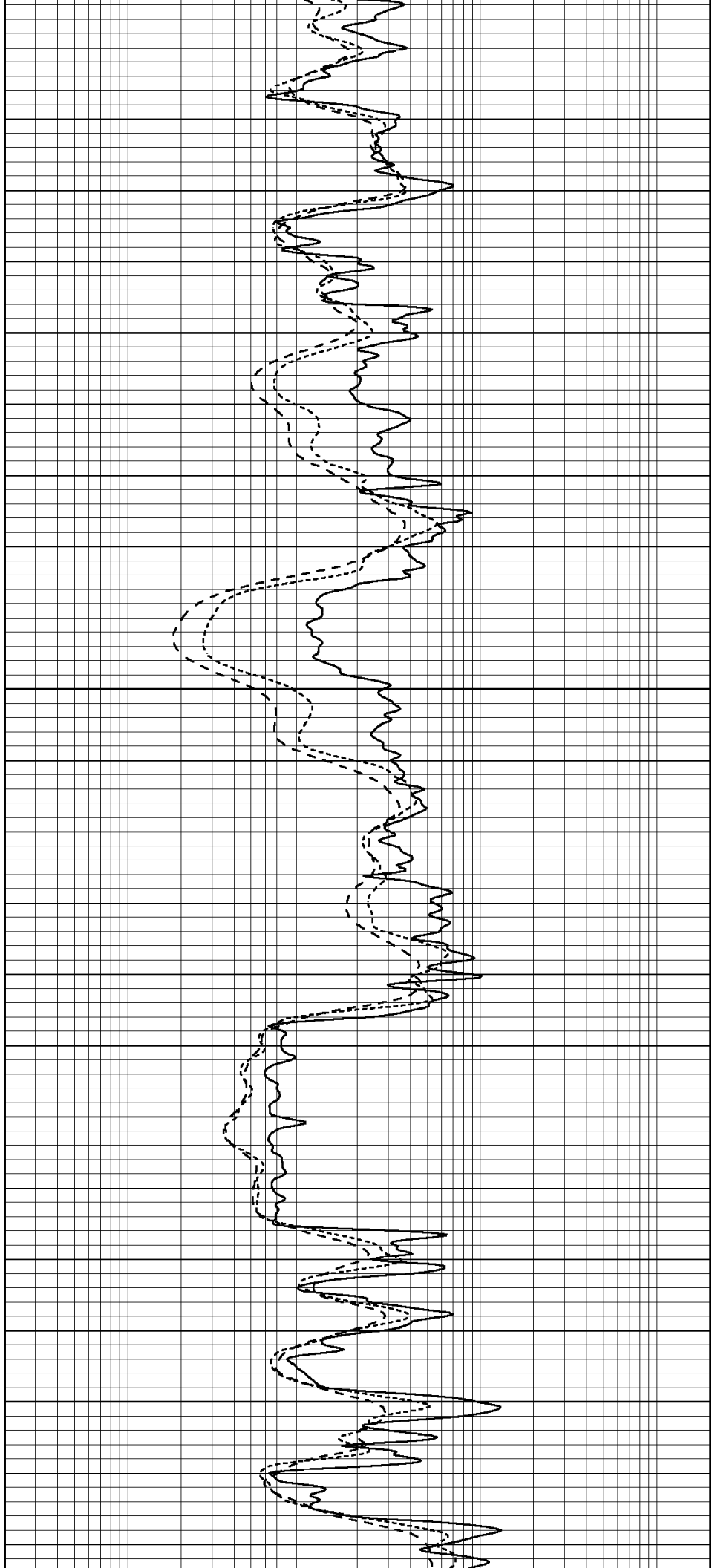


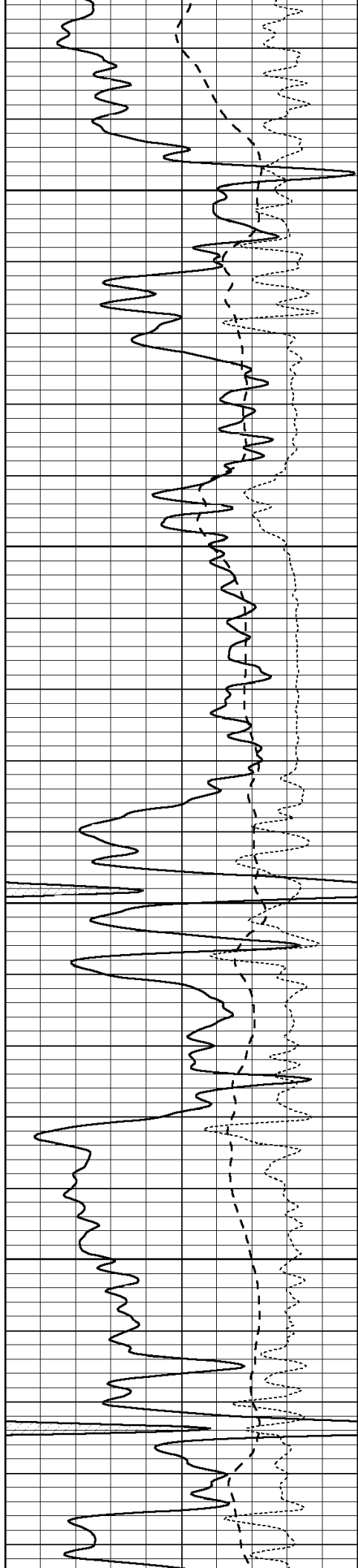
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3250

3300

3350



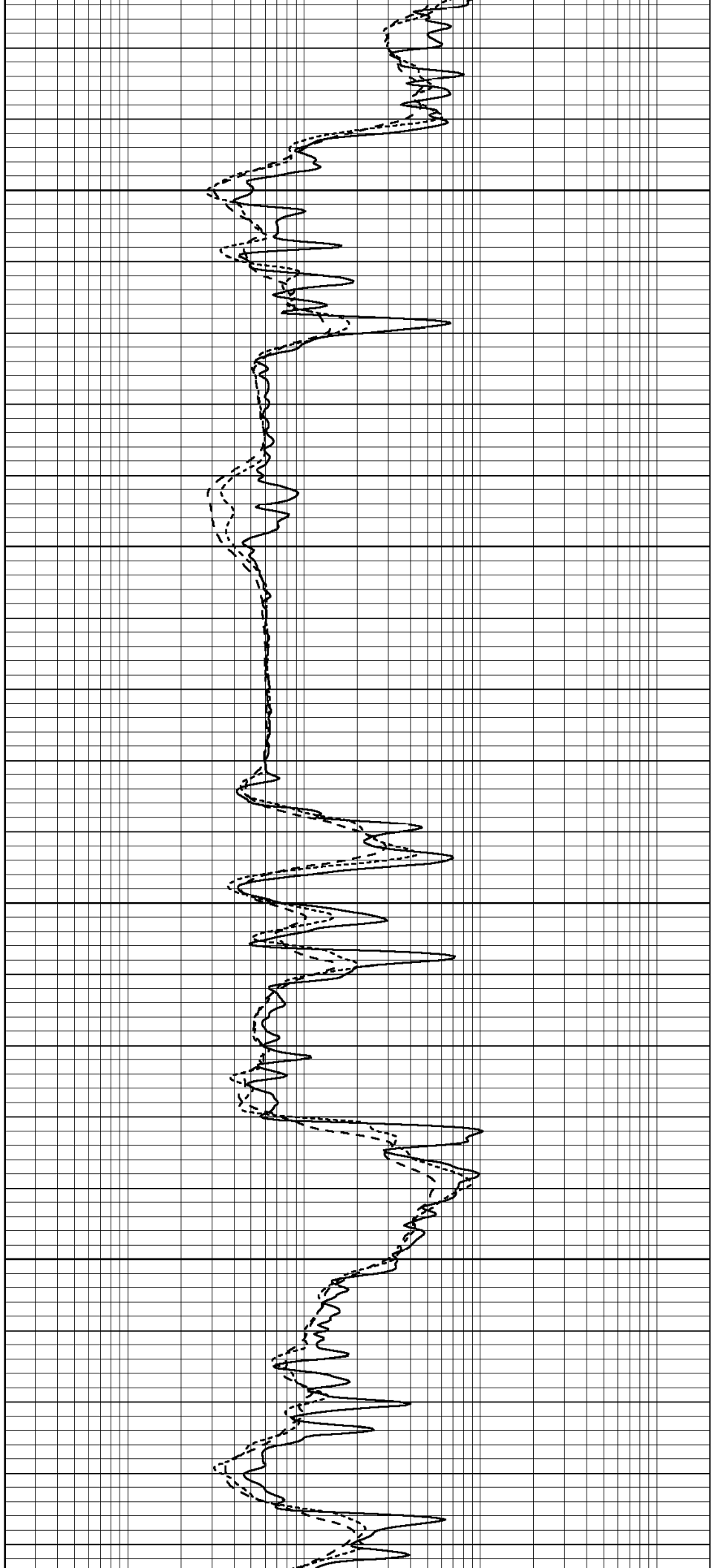


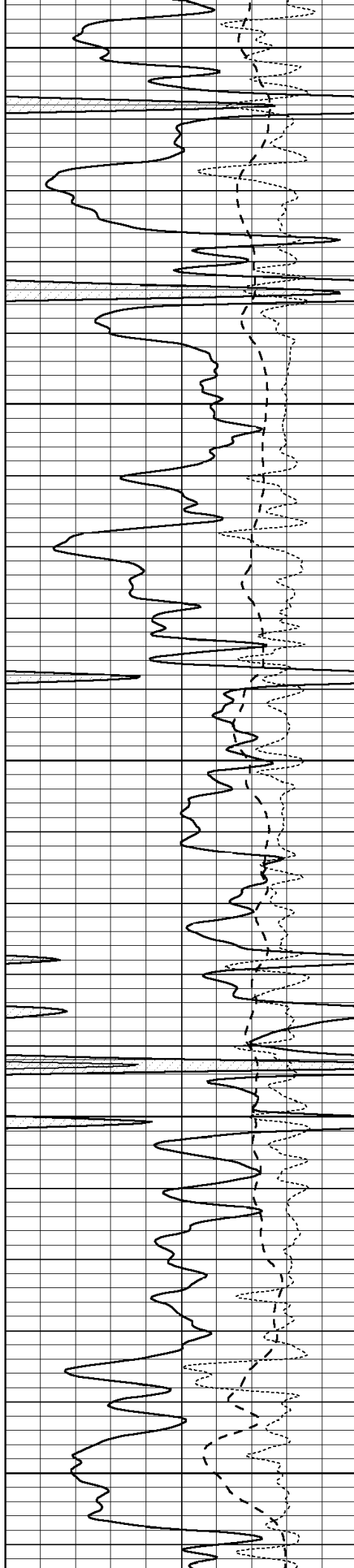
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3450

3500

3550





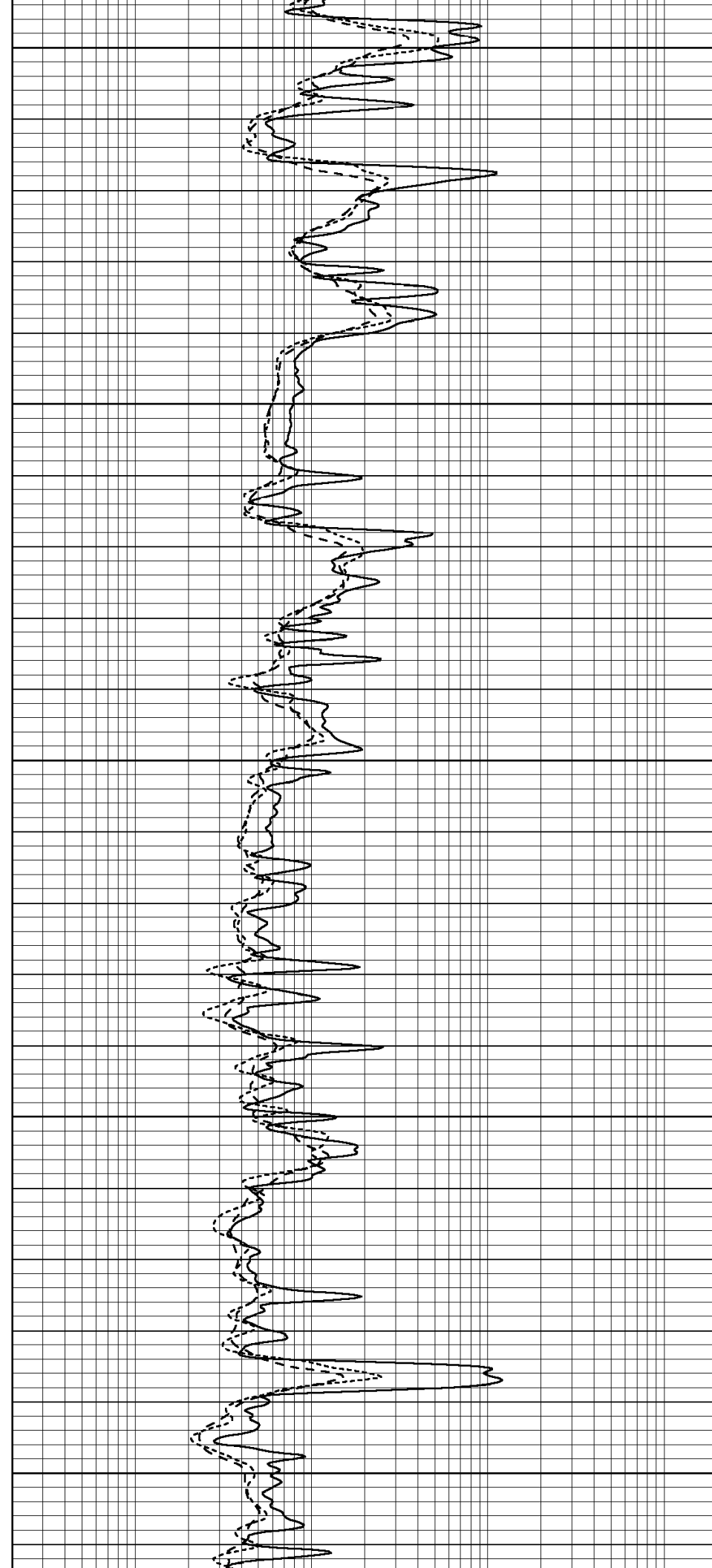
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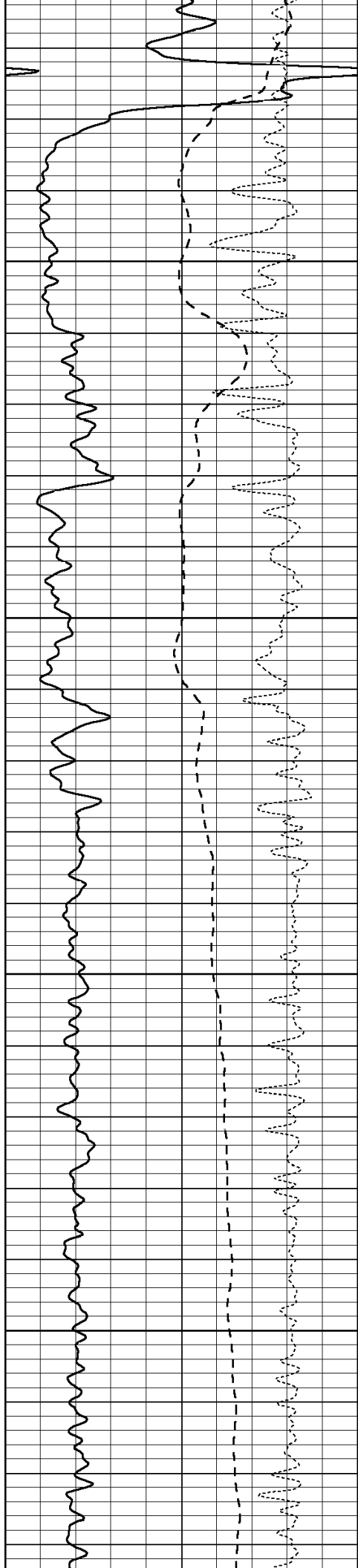
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3700

3750

3800



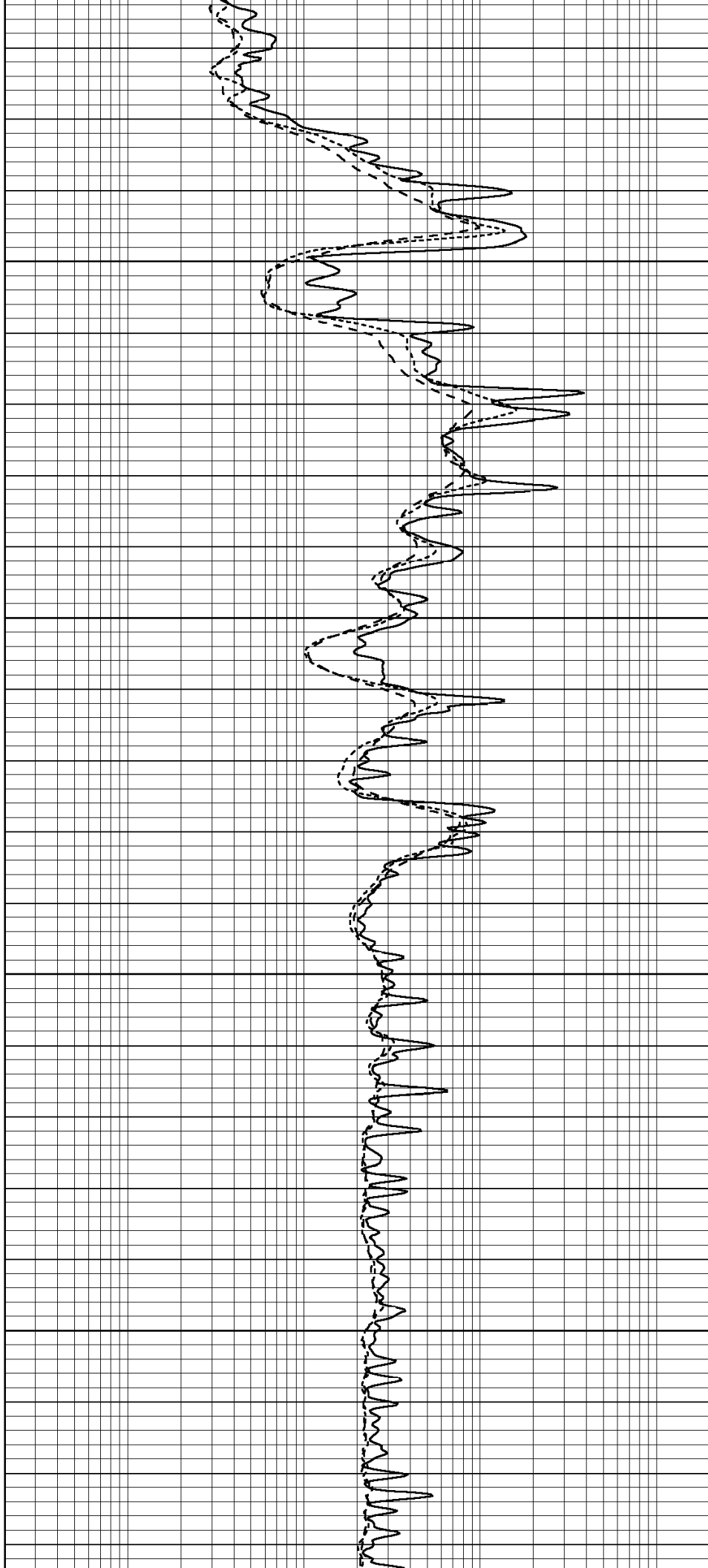


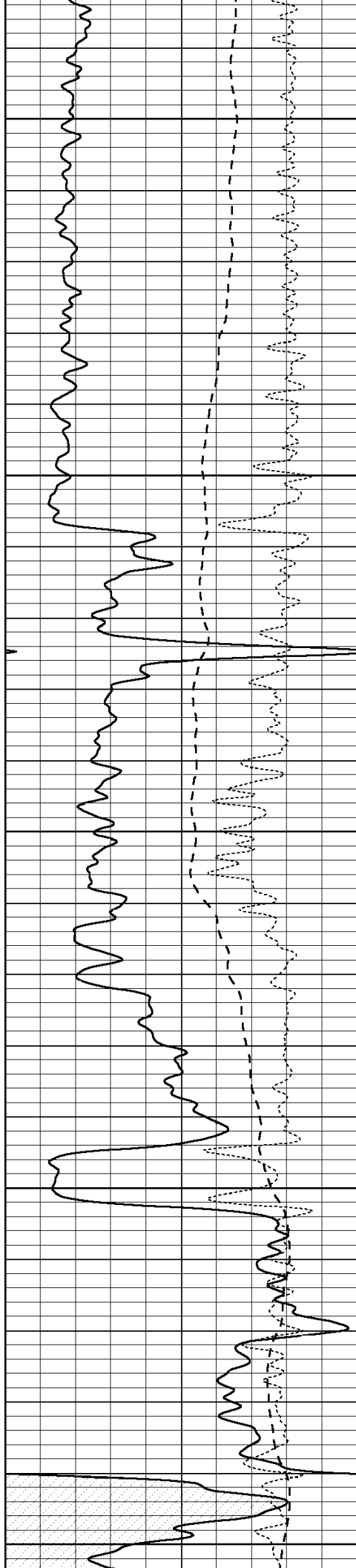
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3900

3950

4000





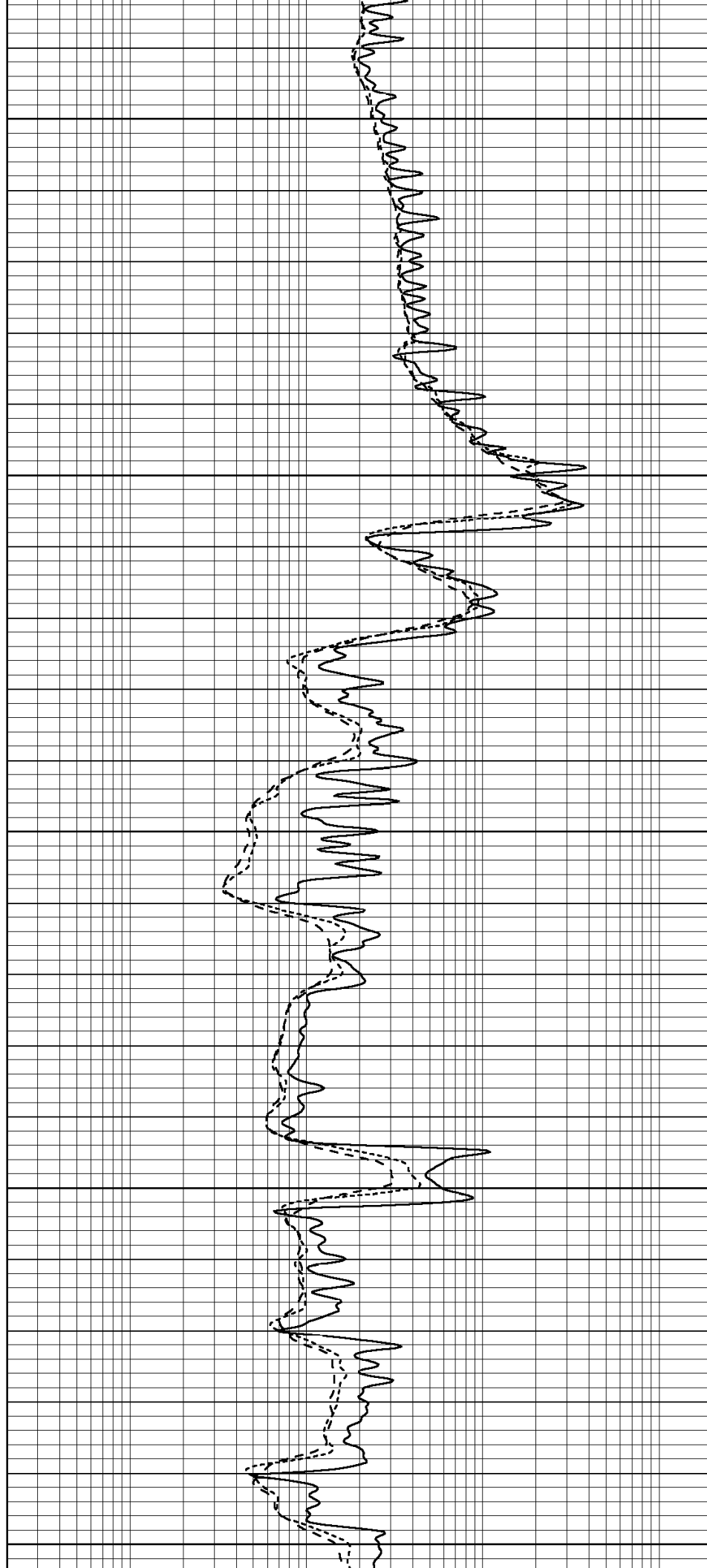
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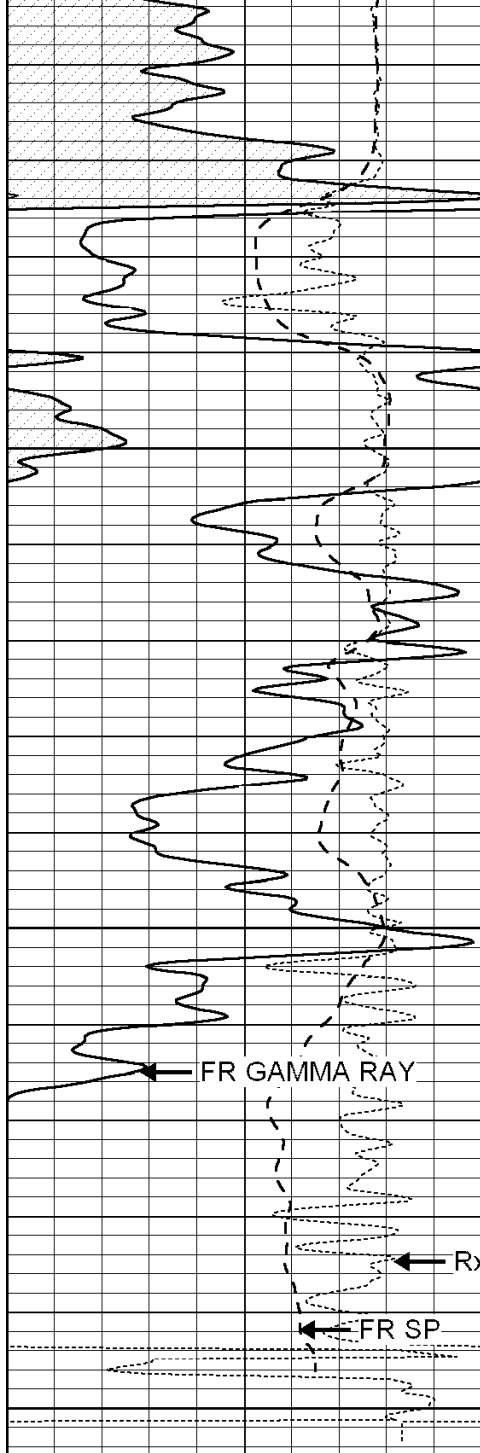
4100

4150

4200

4250





4300

4350

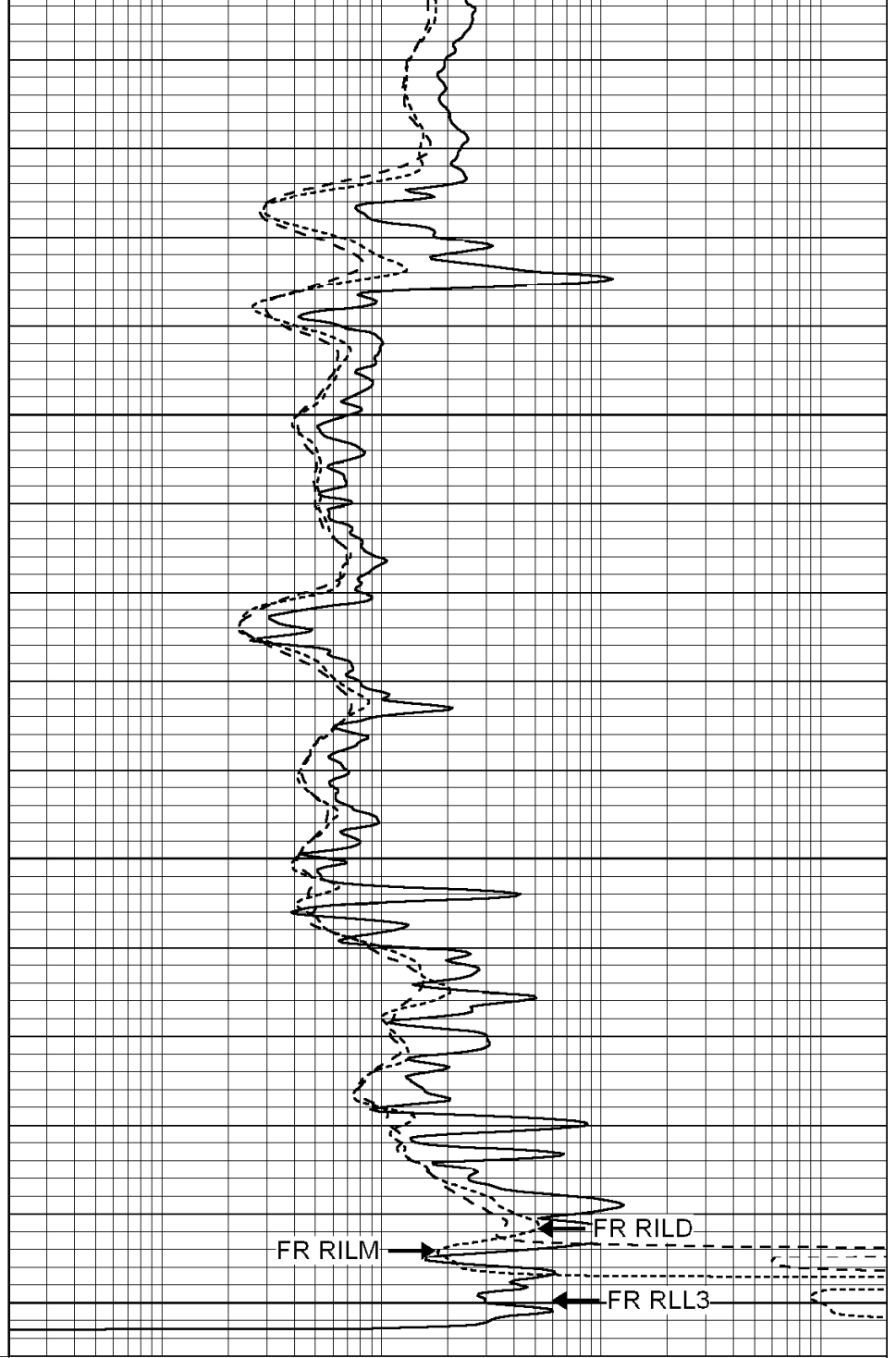
FR GAMMA RAY

RxoRt

FR SP

LTD 4402

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



FR RILM

FR RILD

FR RLL3

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



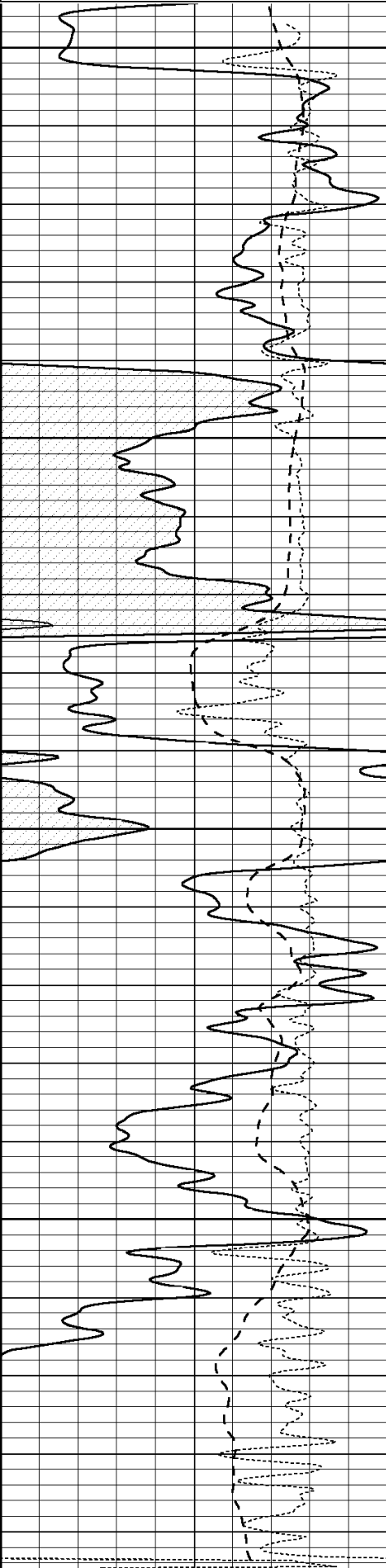
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 004631pe.db
 Dataset Pathname: pass4.2
 Presentation Format: dil
 Dataset Creation: Tue Nov 24 19:49:21 2009 by Calc Open-Cased 060407
 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	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

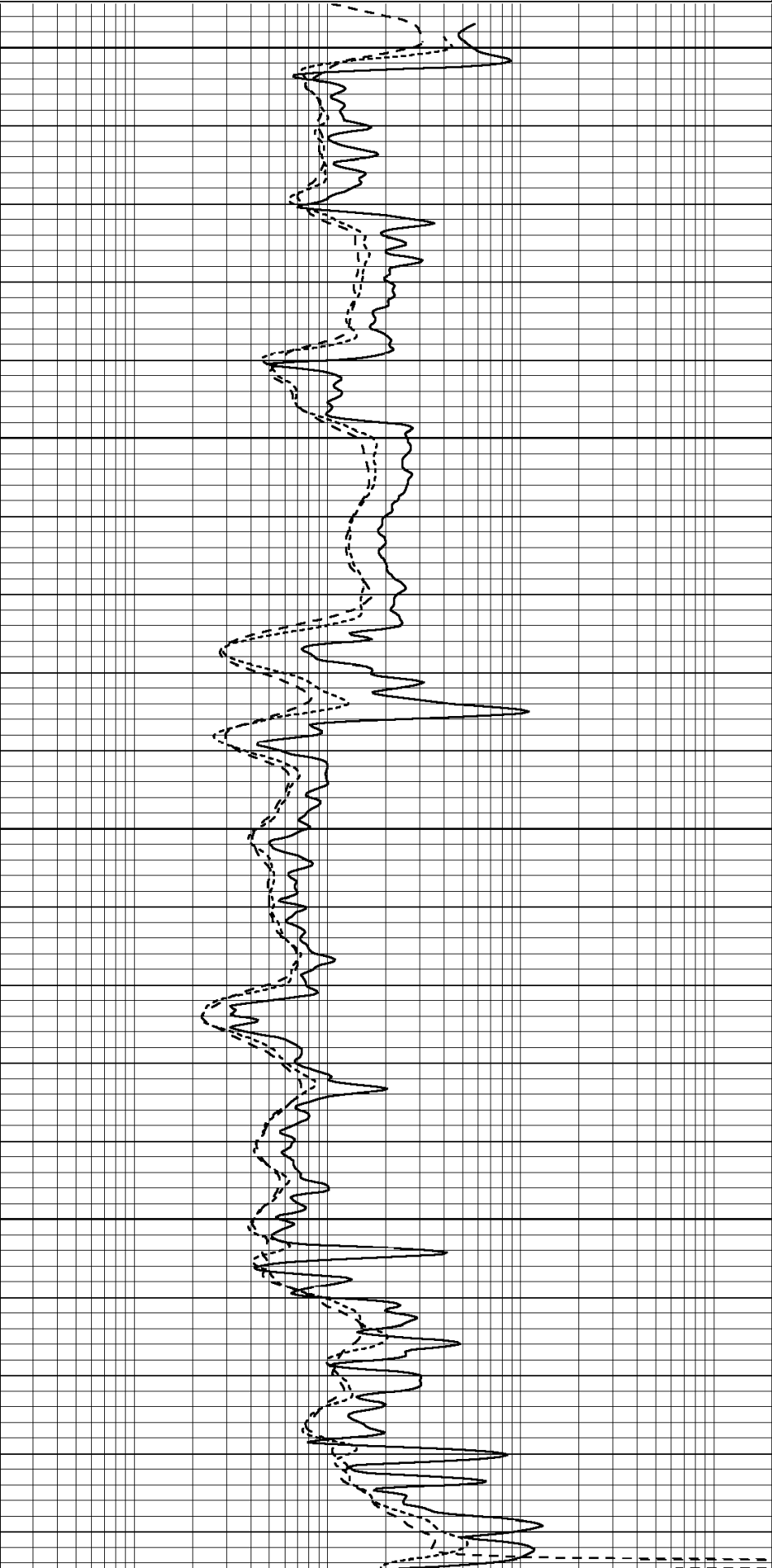


4200

4250

4300

4350



Short Space	997.00	cps	1000.00	cps	1.0000
Long Space	986.00	cps	1000.00	cps	1.0000
Gamma Ray Calibration Report					
Serial Number:	GR4				
Tool Model:	OPEN				
Performed:	Thu Nov 19 02:39:49 2009				
Calibrator Value:	200.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	189.0	cps			
Sensitivity:	0.3600	GAPI/cps			