



SUPERIOR
Hays,
Kansas

**DUAL
INDUCTION
LOG**

Company LOTUS OPERATING CO., LLC.
Well SUZIE #6
Field STRANATHAN
County BARBER
State KANSAS

Company LOTUS OPERATING COMPANY, LLC.
Well SUZIE #6
Field STRANATHAN
County BARBER State KANSAS

Location: API # : 15-007-23766-0000
330' FSL & 2145' FWL
W/2 - SE - SE - SW
Permanent Datum GROUND LEVEL Elevation 1398
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING
SEC 30 TWP 34S RGE 11W
Other Services
CDL/CNL/PE
MEL/SON
Elevation
K.B. 1411
D.F. 1409
G.L. 1398

Date	9/20/11		
Run Number	ONE		
Depth Driller	5450		
Depth Logger	5454		
Bottom Logged Interval	5452		
Top Log Interval	0		
Casing Driller	10 3/4' @ 255		
Casing Logger	252		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2000 PPM	
Density / Viscosity	9.4/52		
pH / Fluid Loss	10.0/9.6		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	0.65 @ 97F		
Rmf @ Meas. Temp	0.49 @ 97F		
Rmc @ Meas. Temp	0.78 @ 97F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	0.49 @ 129F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	129F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	WES HANSEN		

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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.

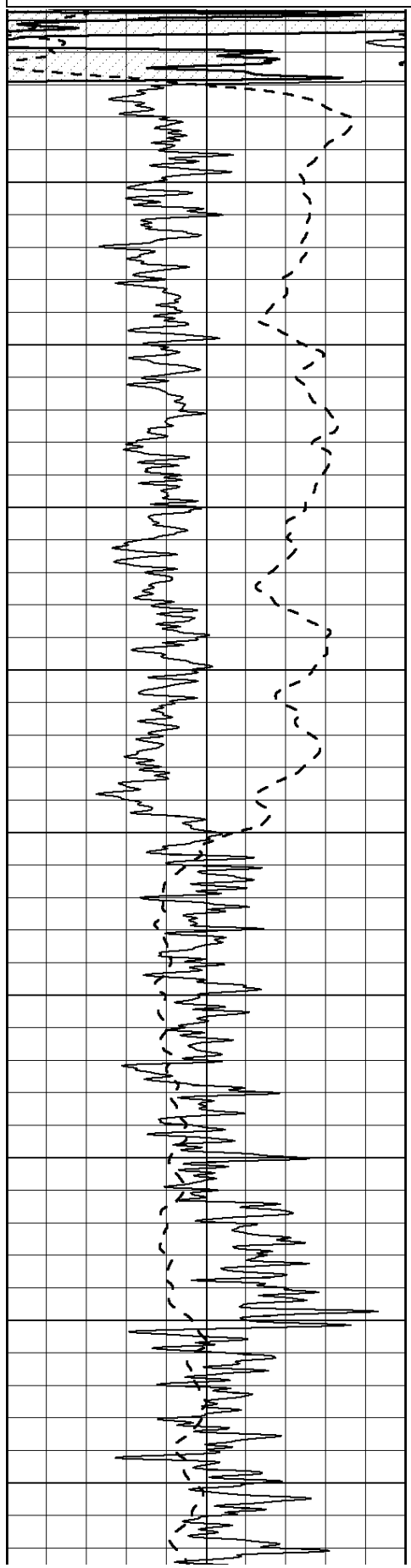
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS - 16 MILES SOUTH TO RATTLESNAKE RD
3/8 MILE EAST - NORTH INTO

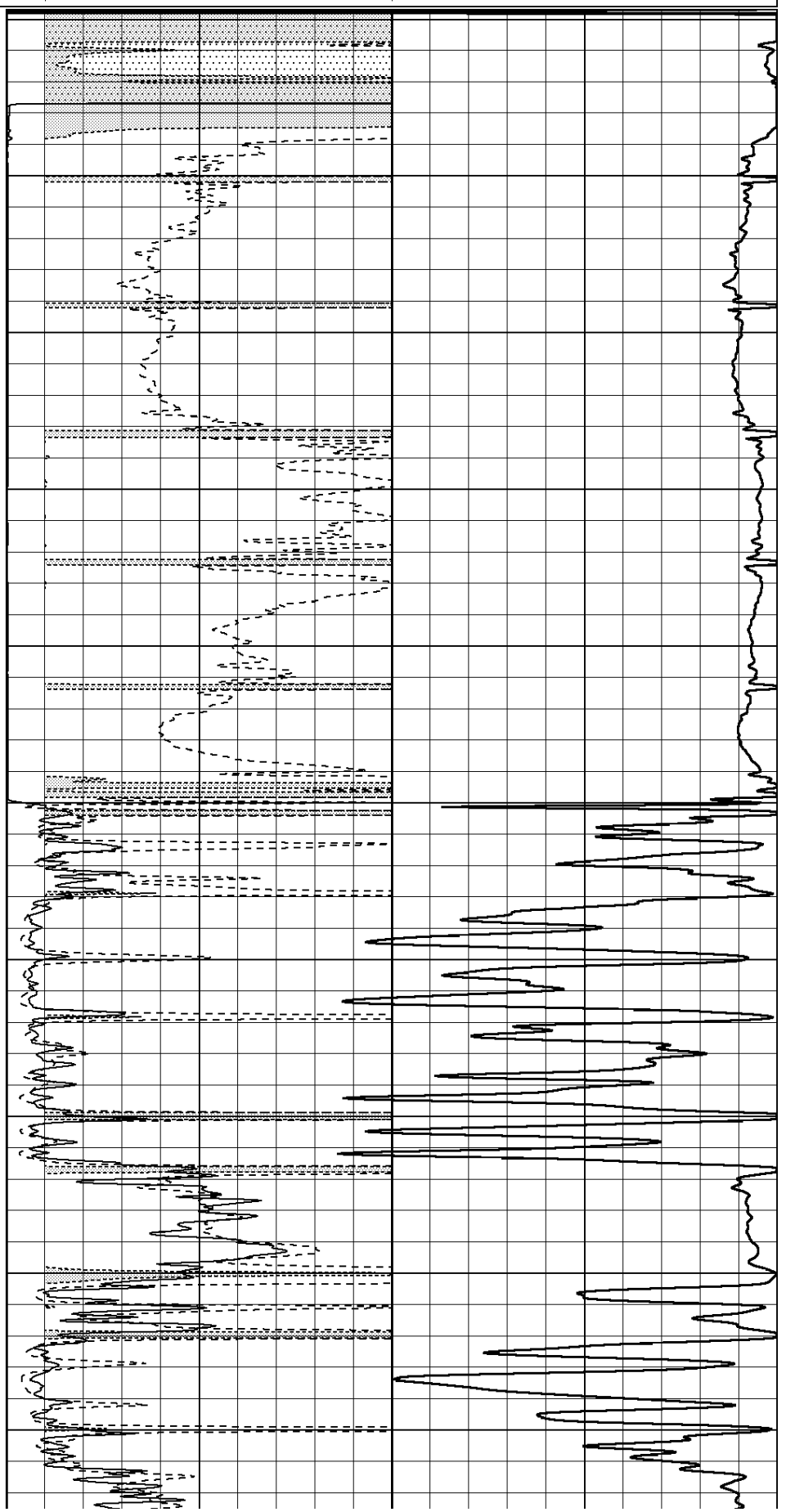
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

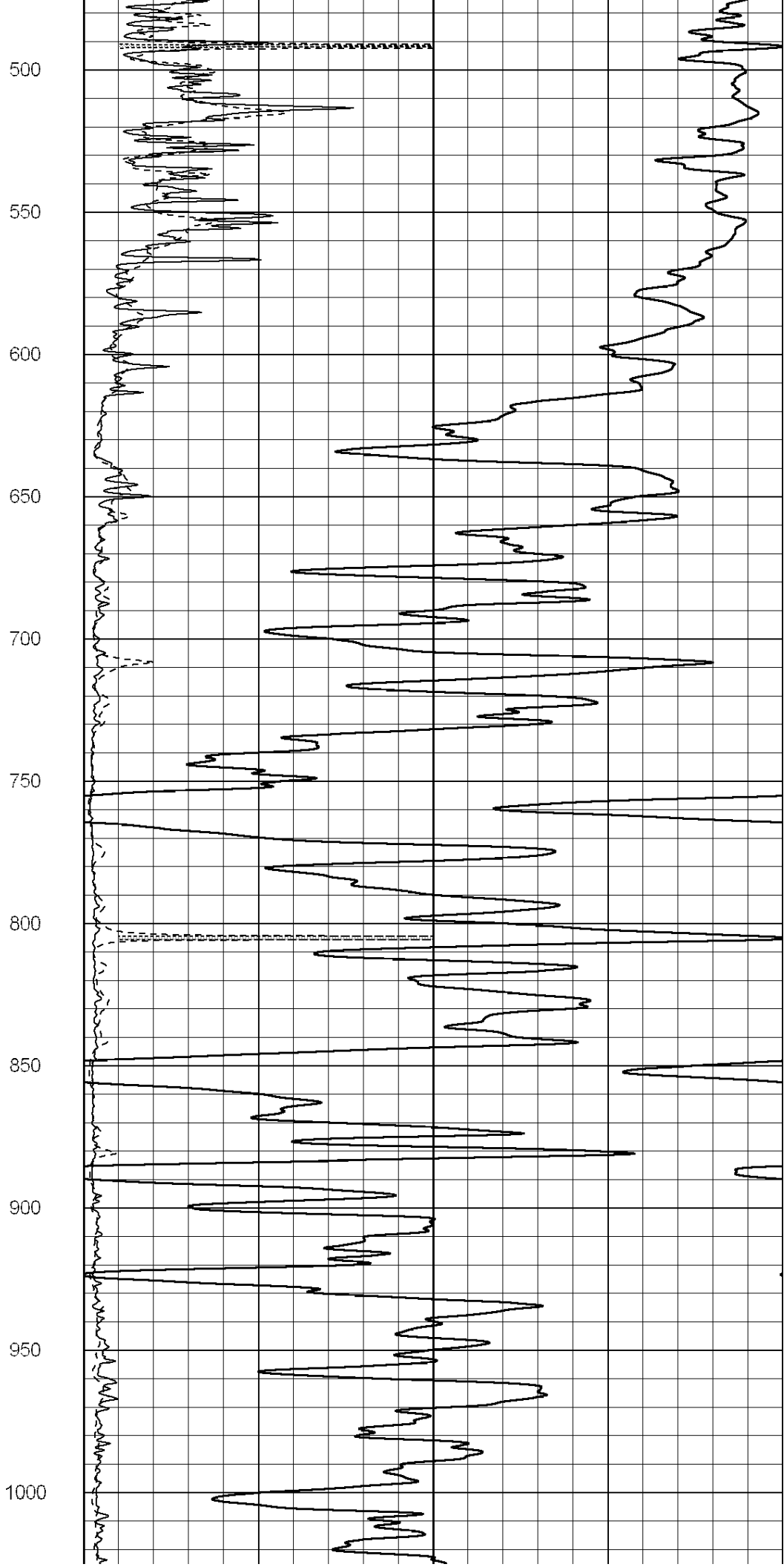
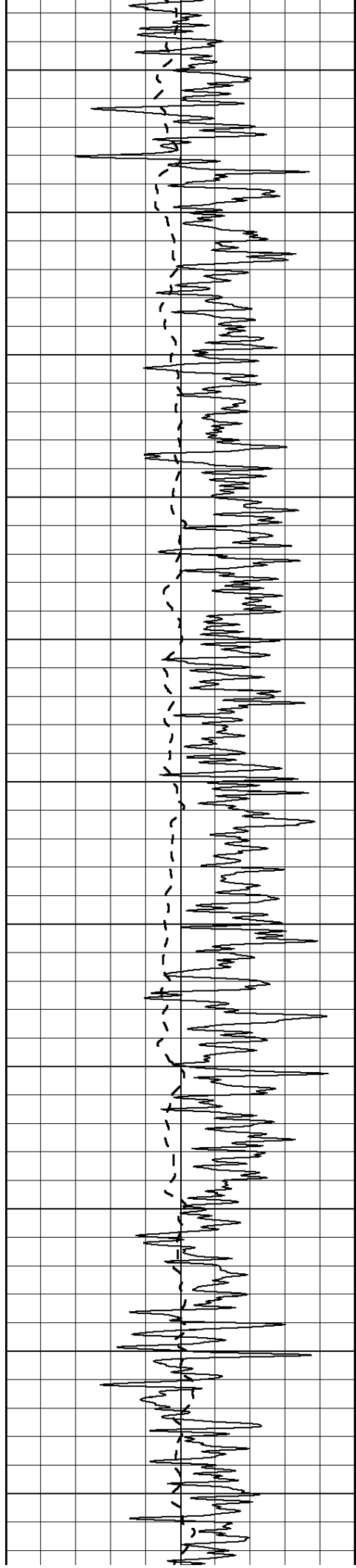
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
1000	CILD (mmho/m)	
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

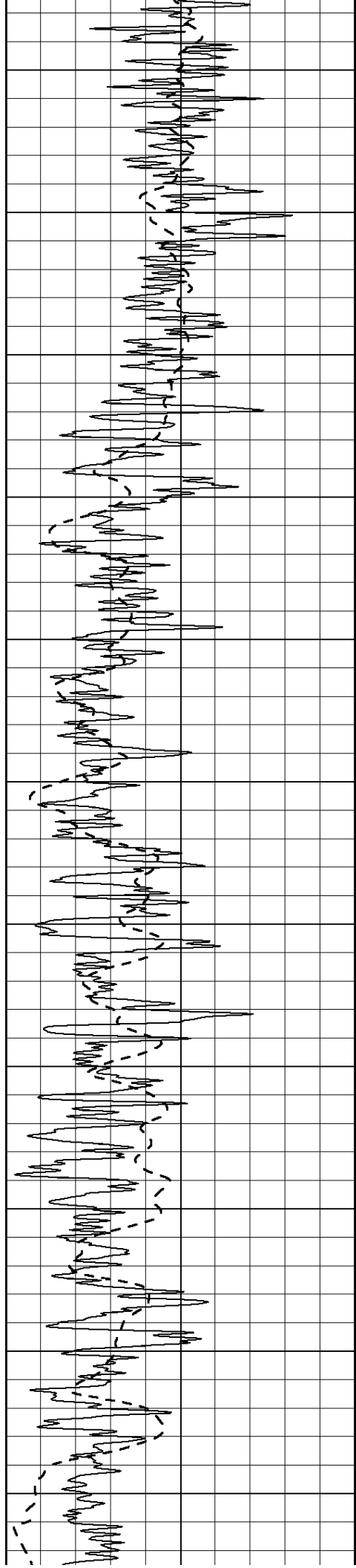
0



0
50
100
150
200
250
300
350
400
450







1050

1100

1150

1200

1250

1300

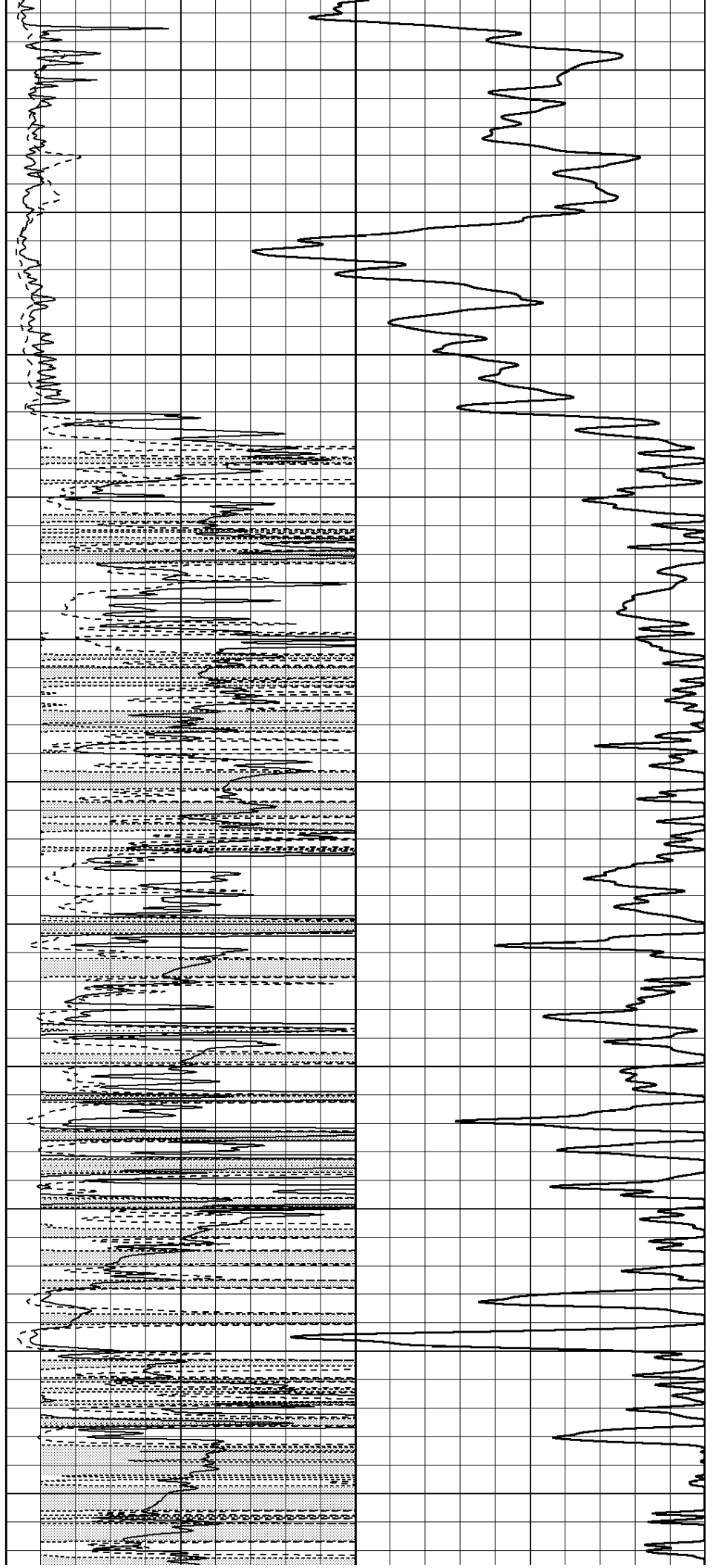
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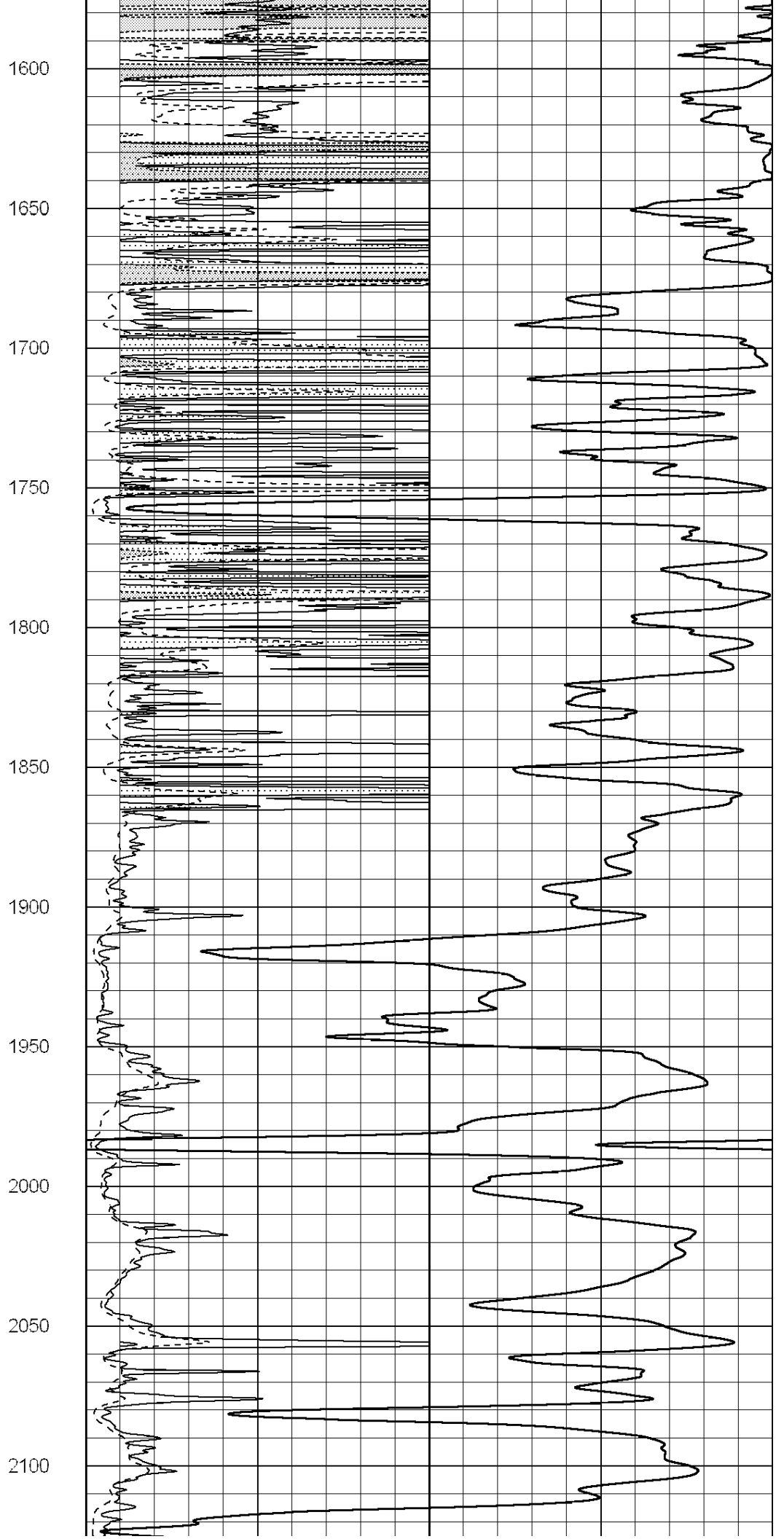
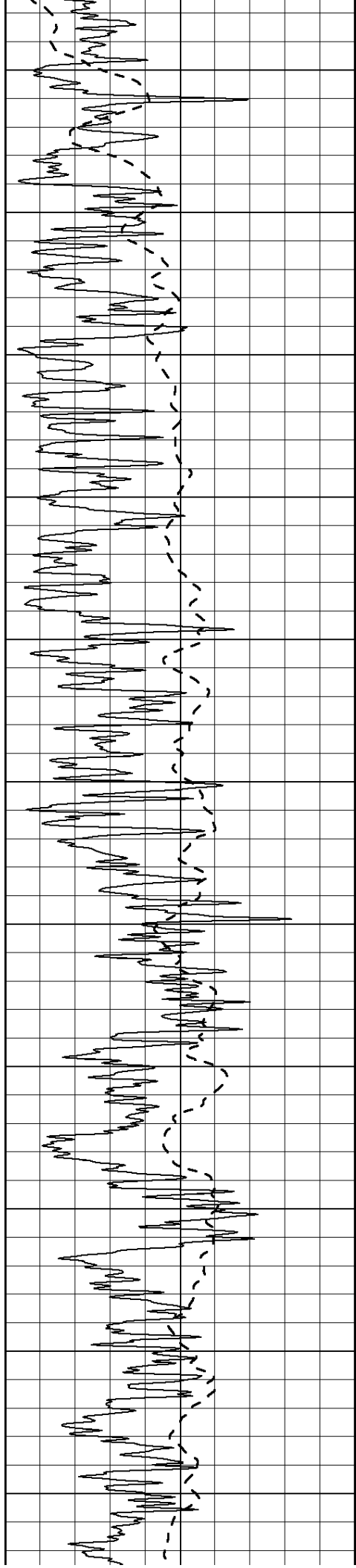
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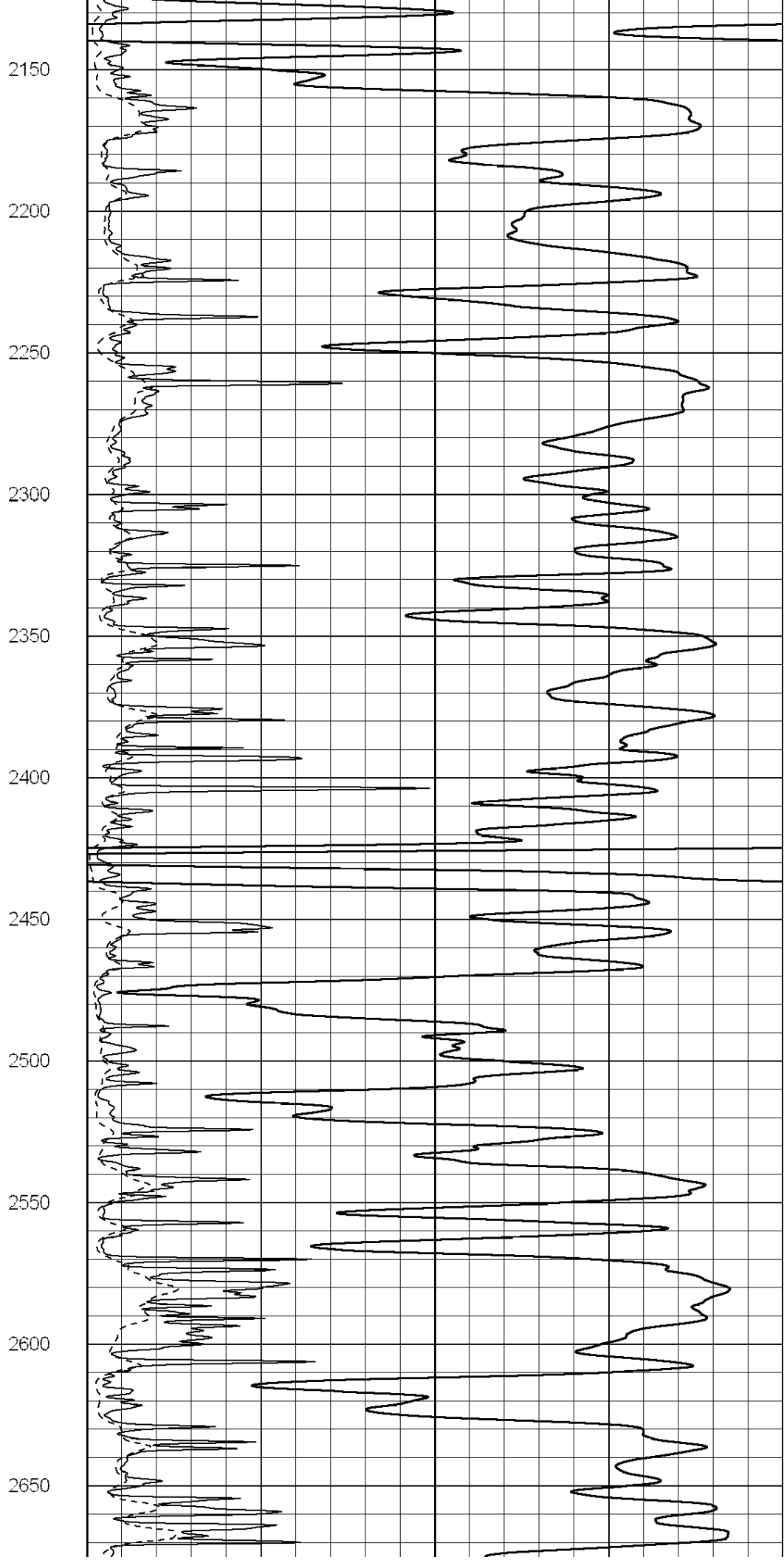
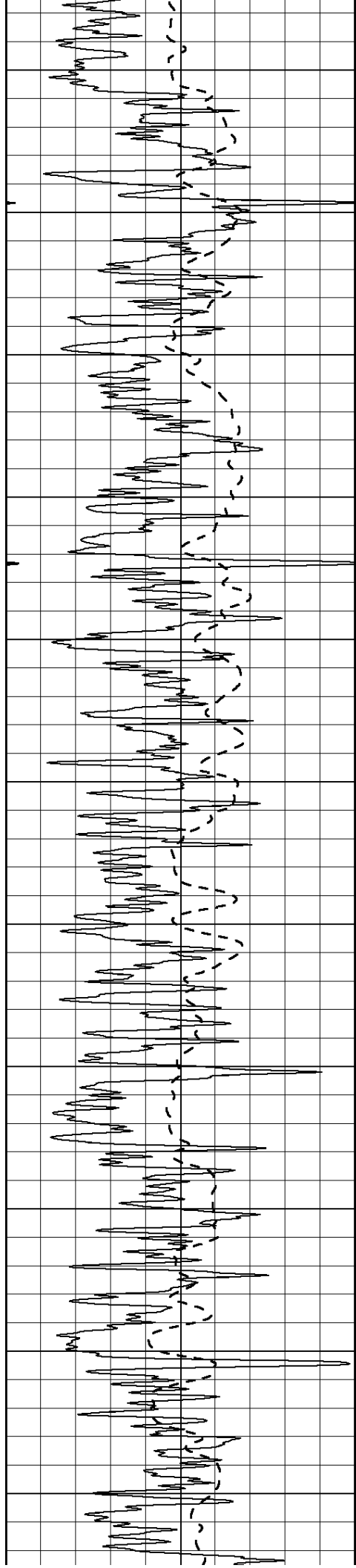
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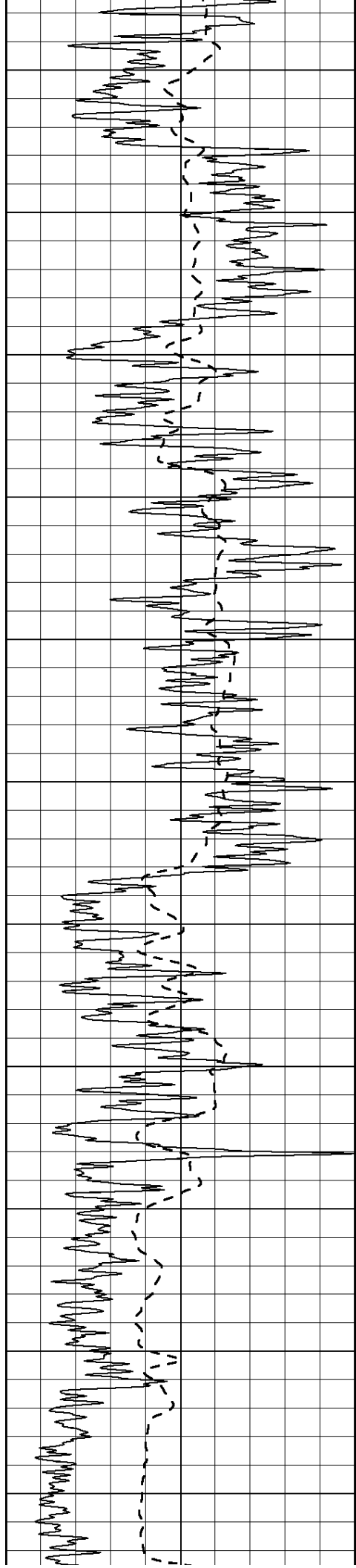
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1550









2700

2750

2800

2850

2900

2950

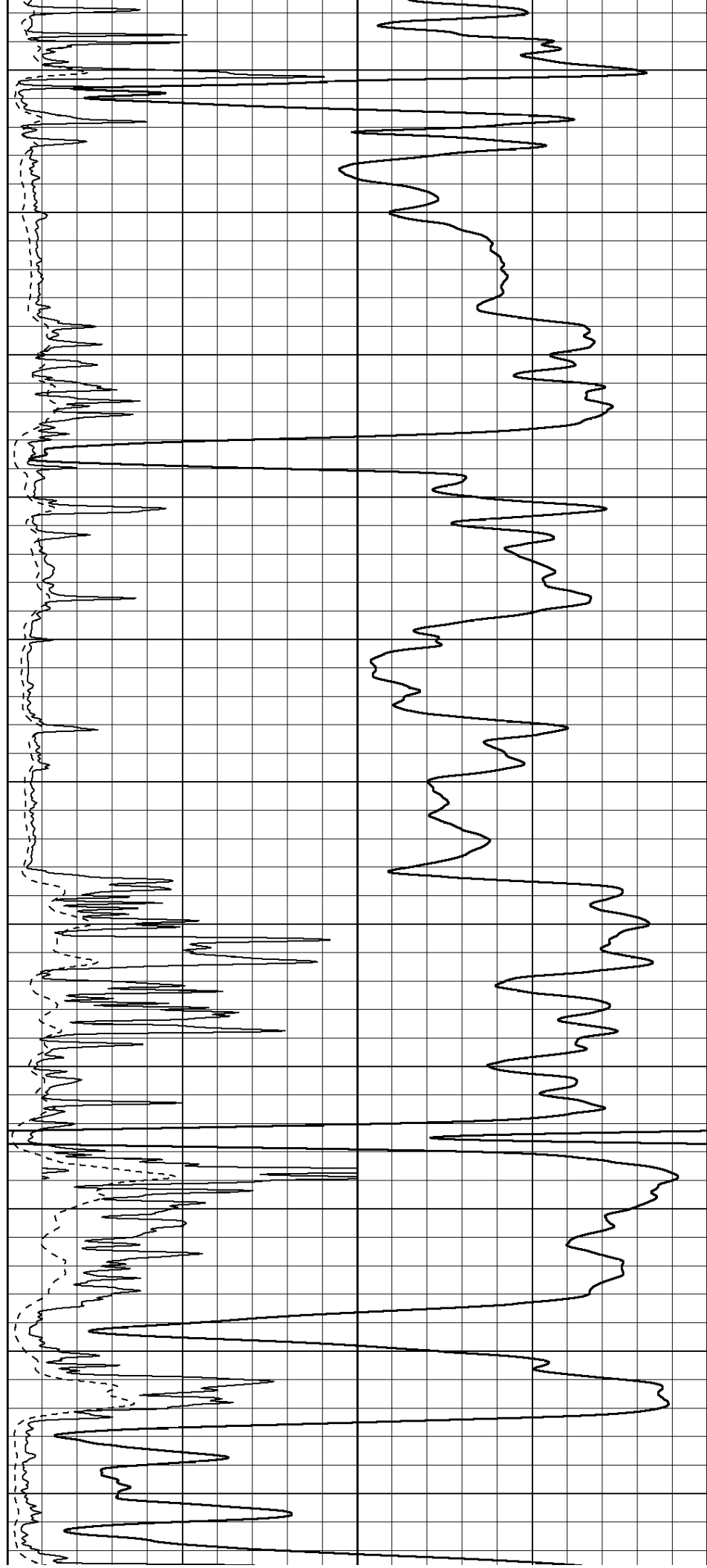
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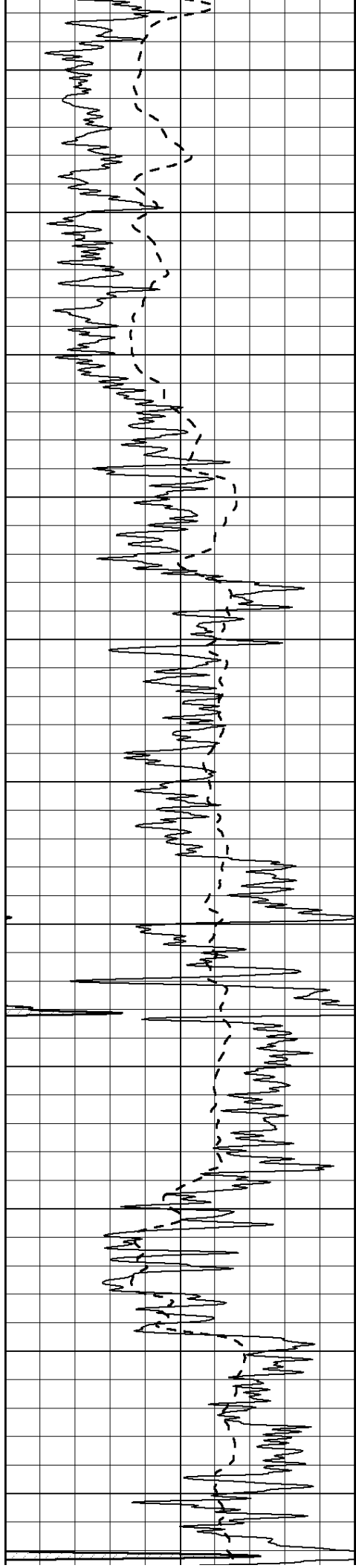
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3150

3200





3250

3300

3350

3400

3450

3500

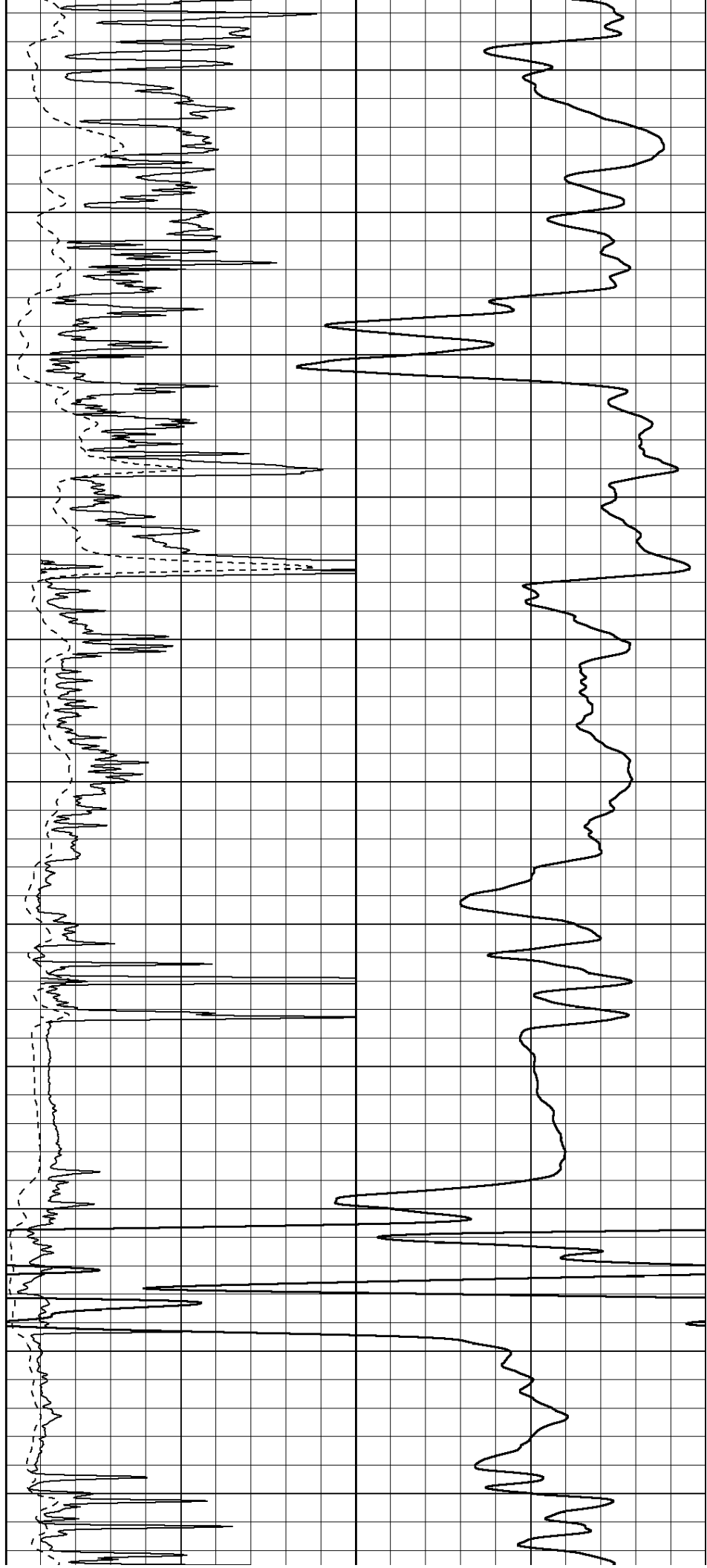
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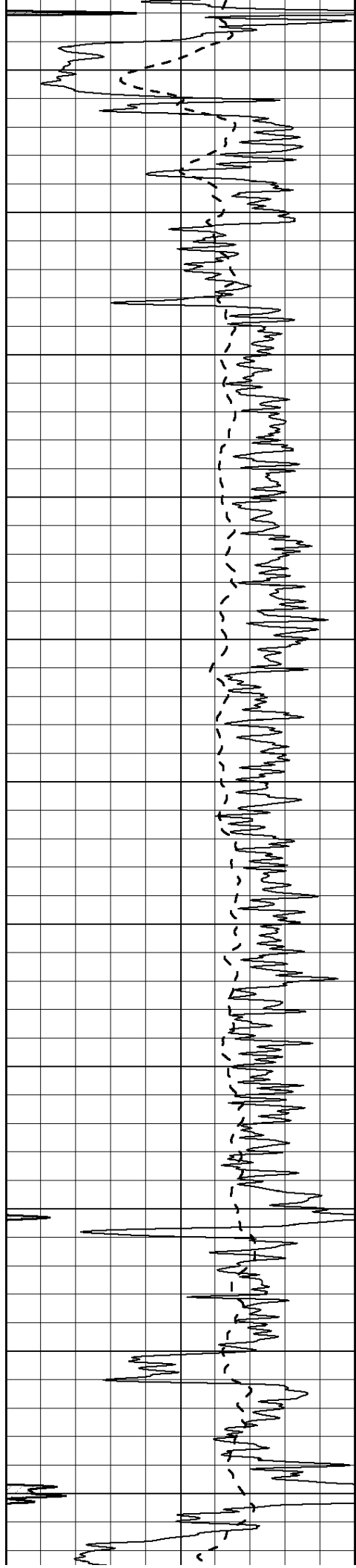
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3650

3700

3750





3800

3850

3900

3950

4000

4050

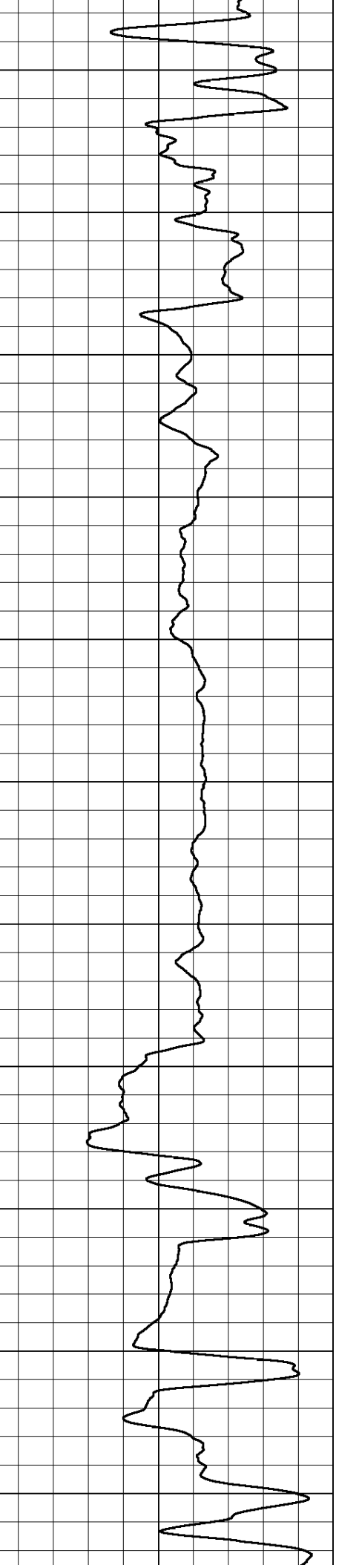
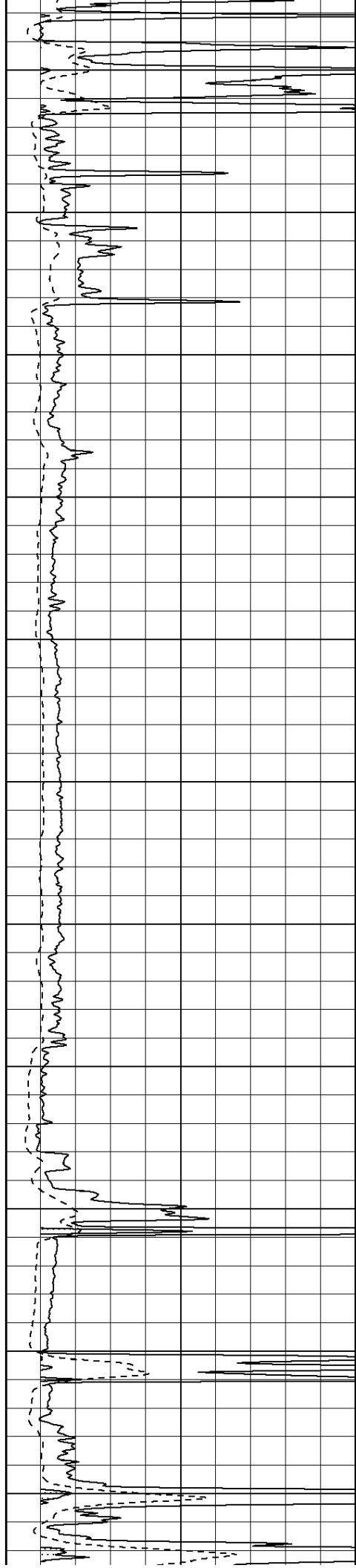
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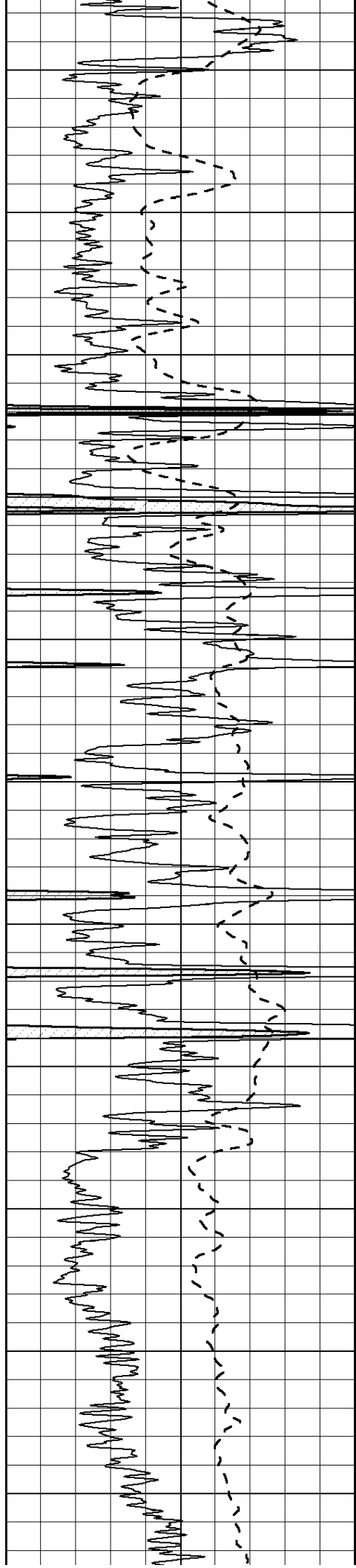
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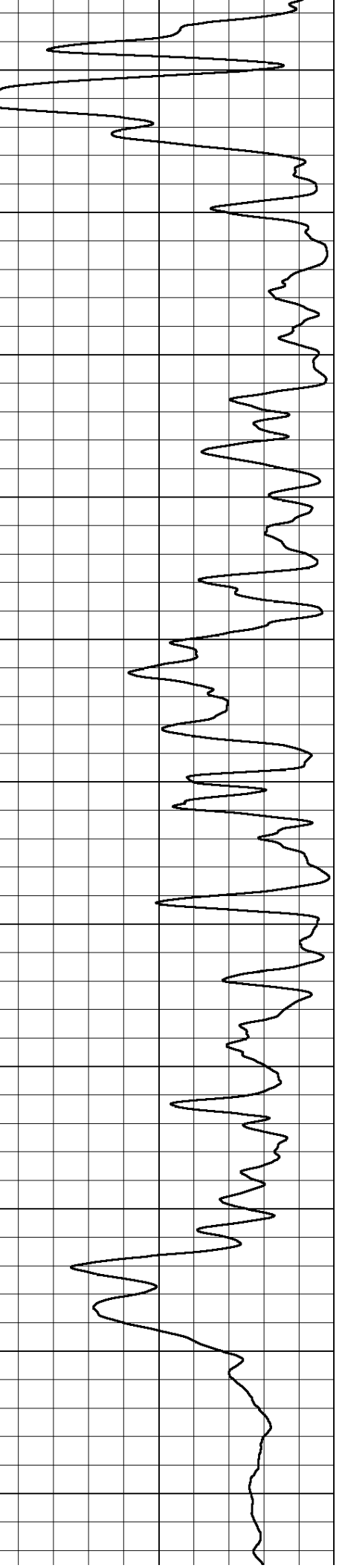
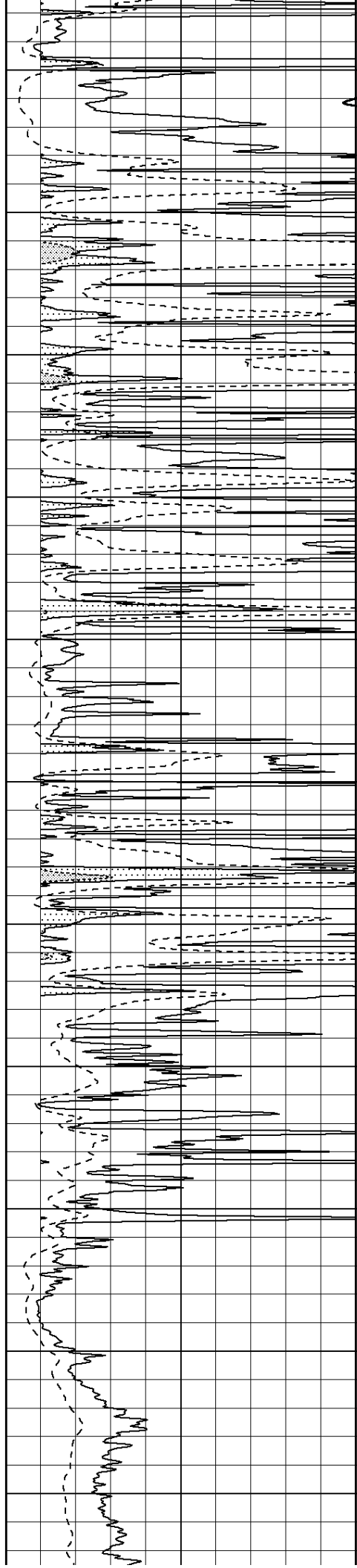
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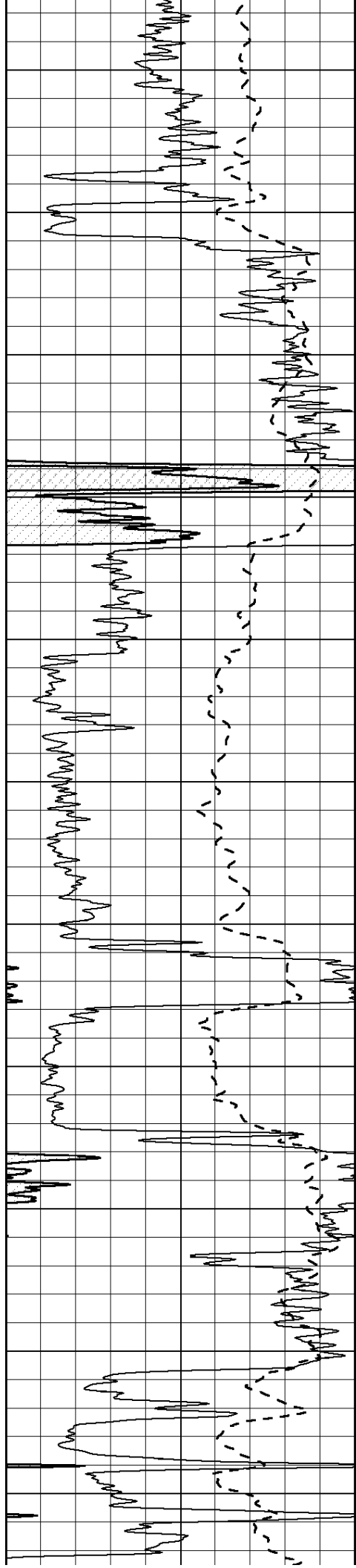
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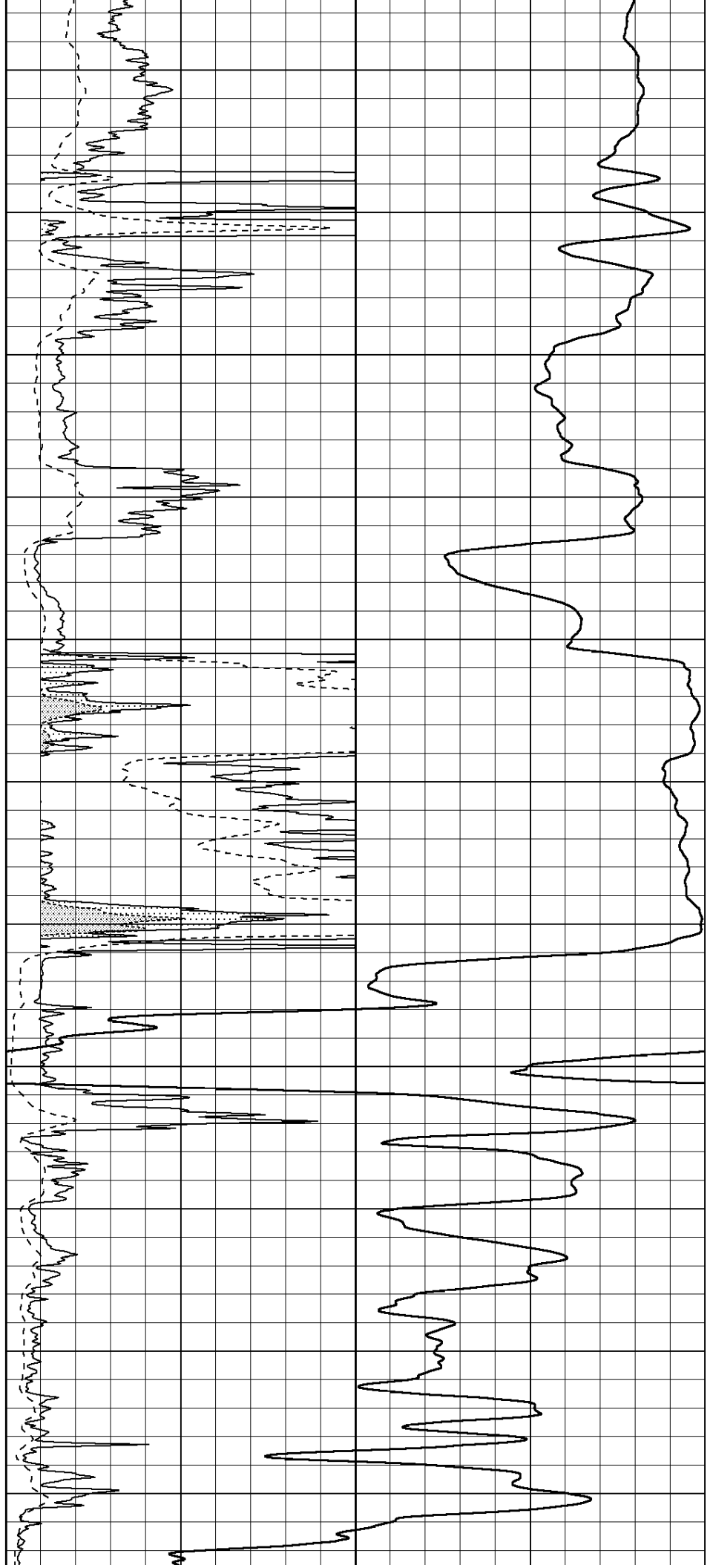


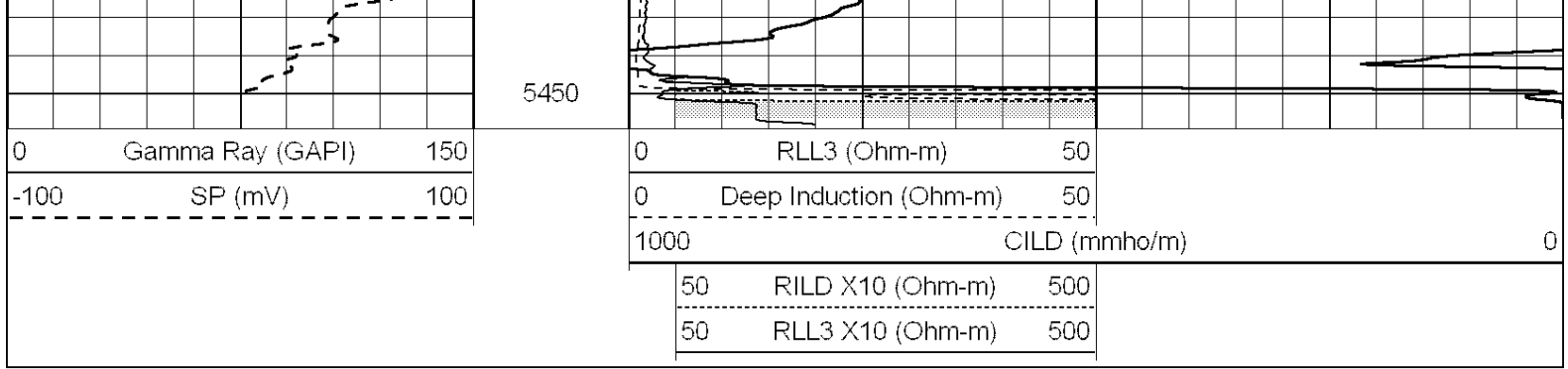
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4750
4800
4850



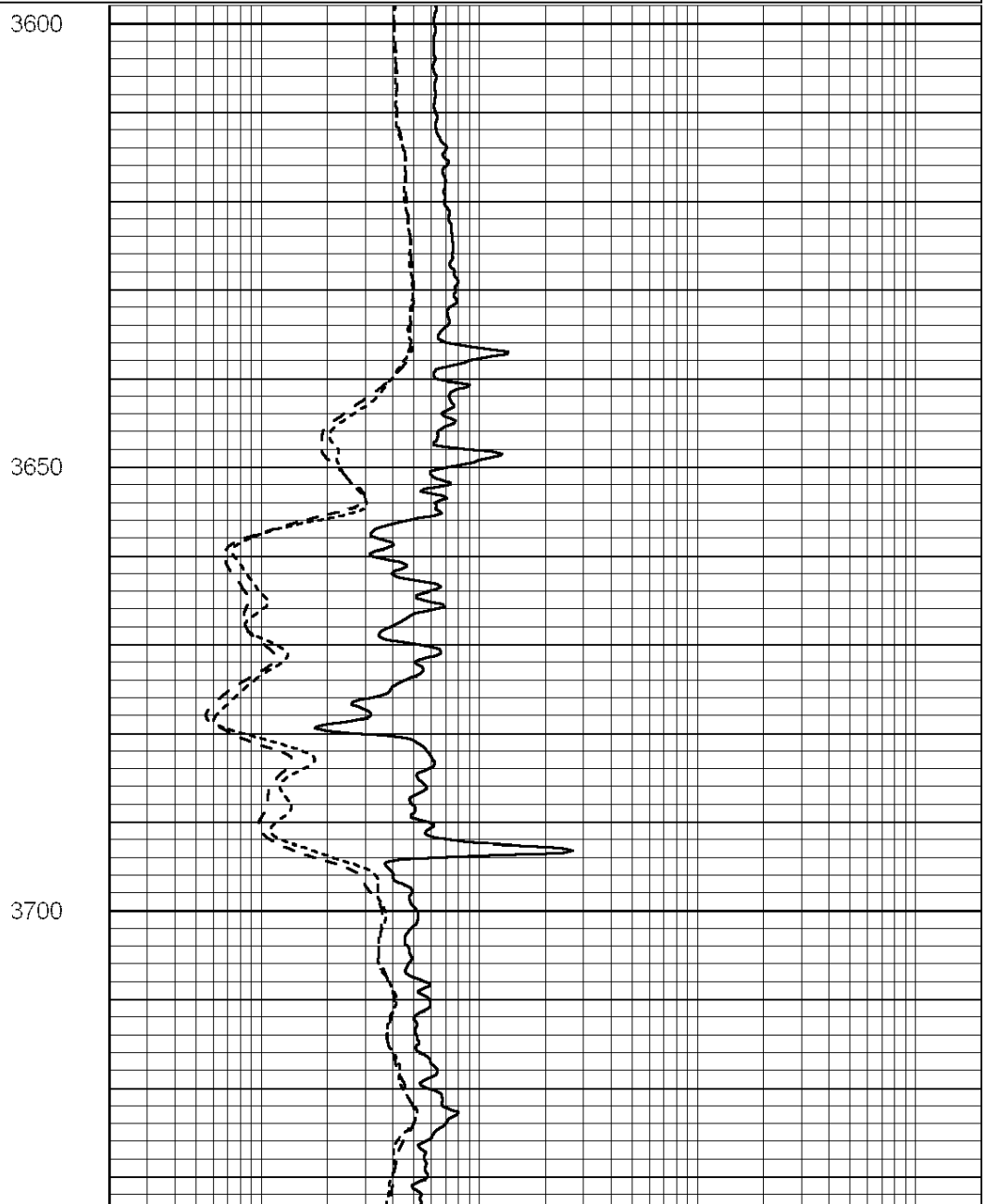
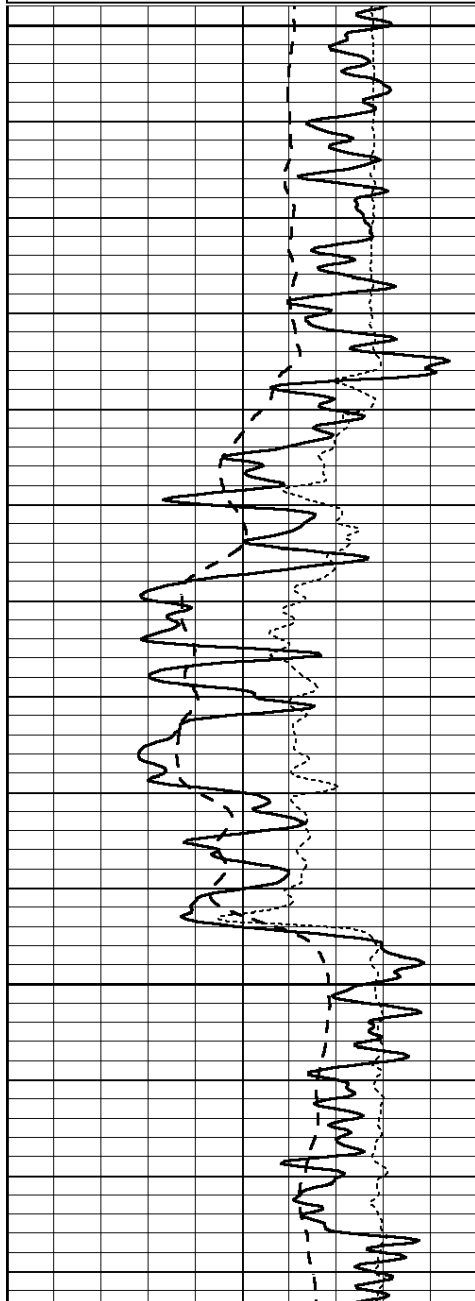
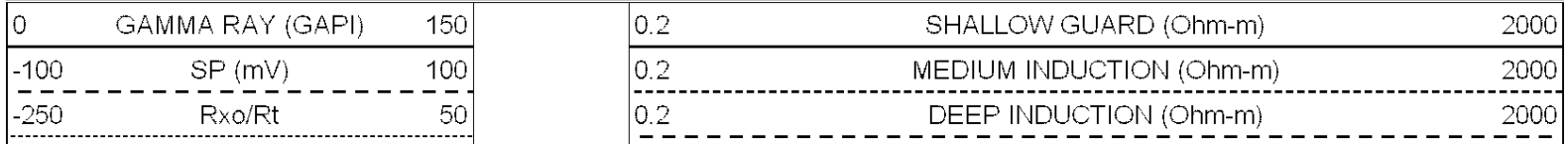


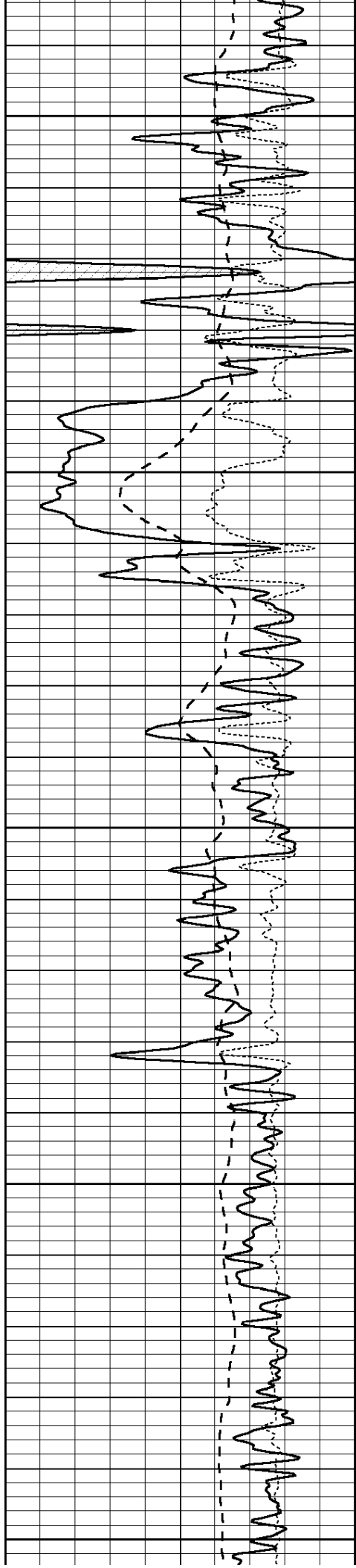
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5250
5300
5350
5400





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 Presentation Format: _dil
 Dataset Creation: Tue Sep 20 19:01:41 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





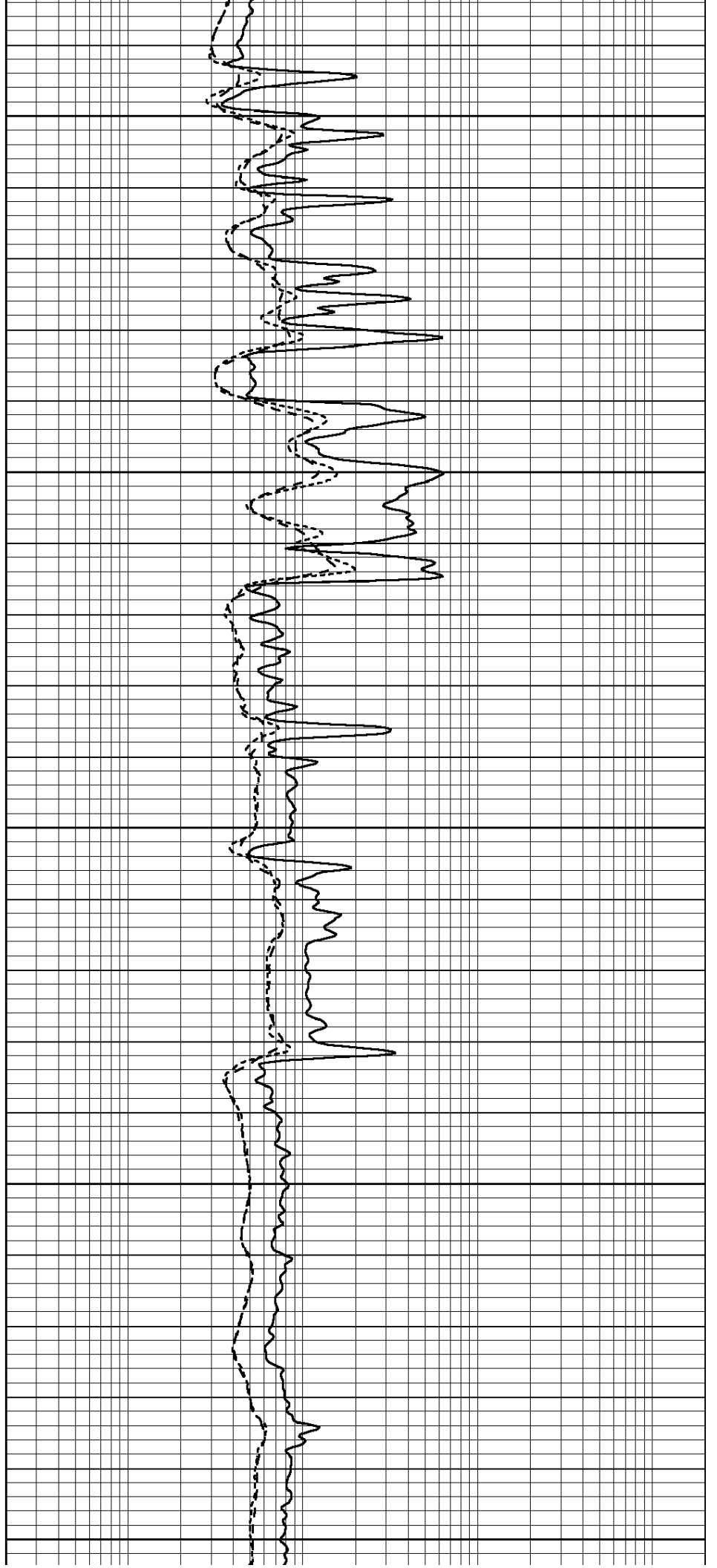
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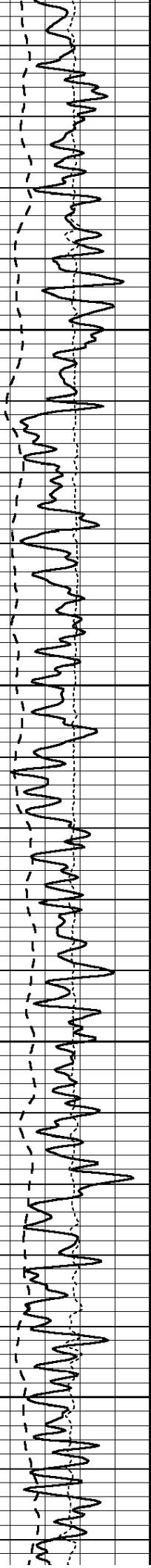
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3900

3950



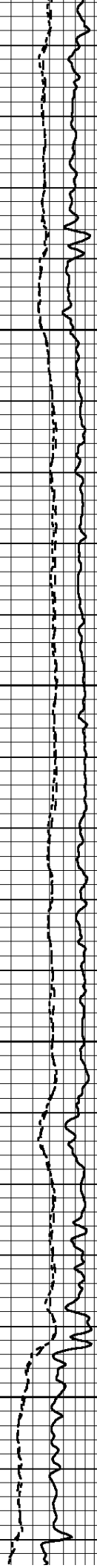


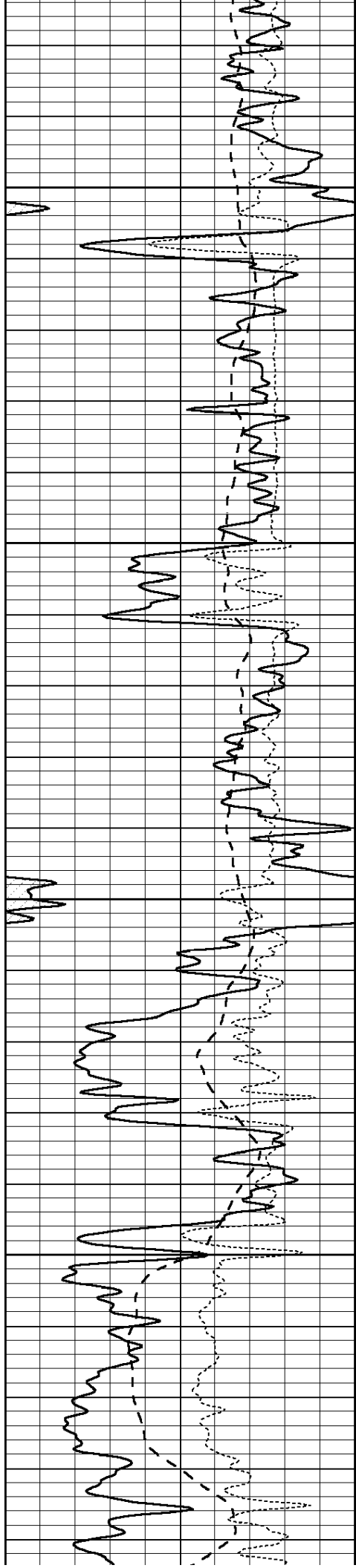
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4050

4100

4150



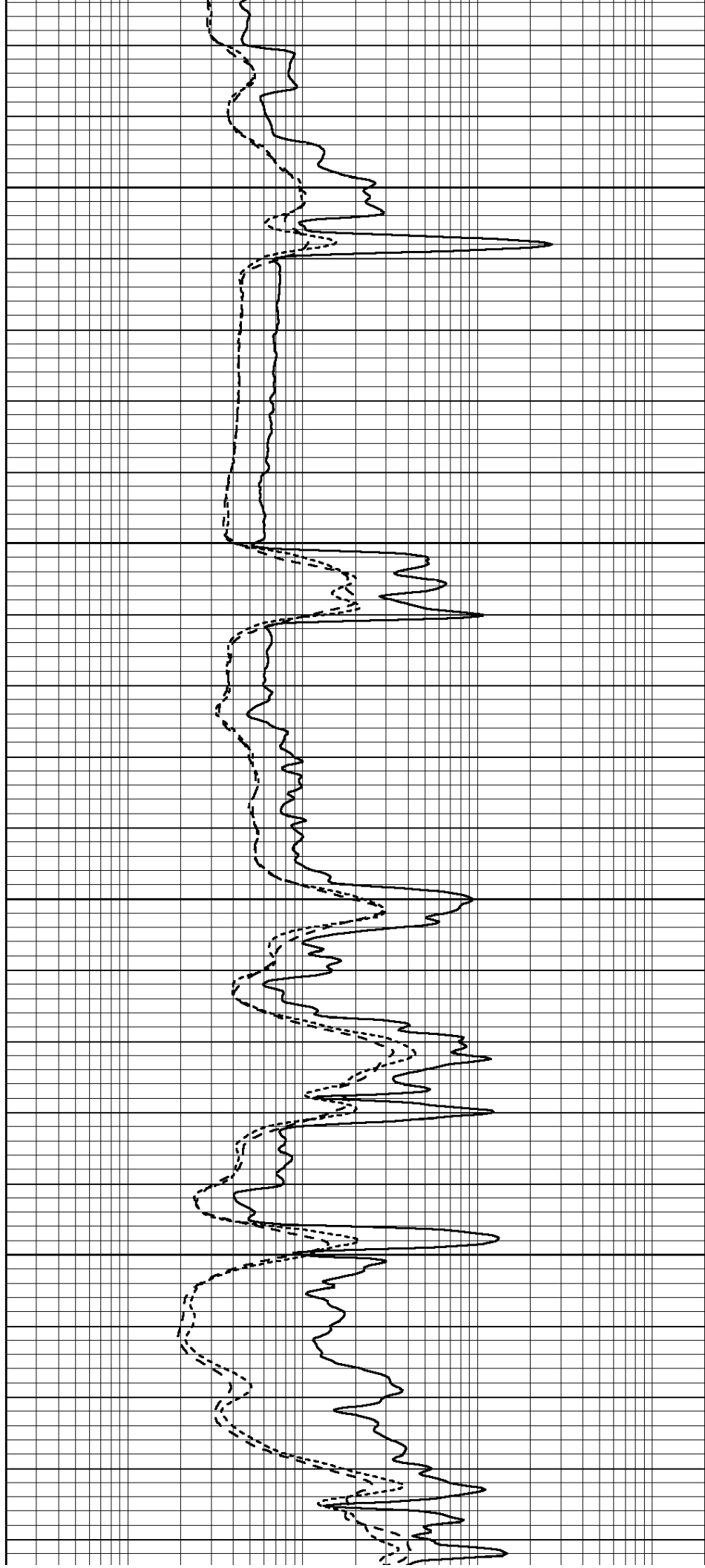


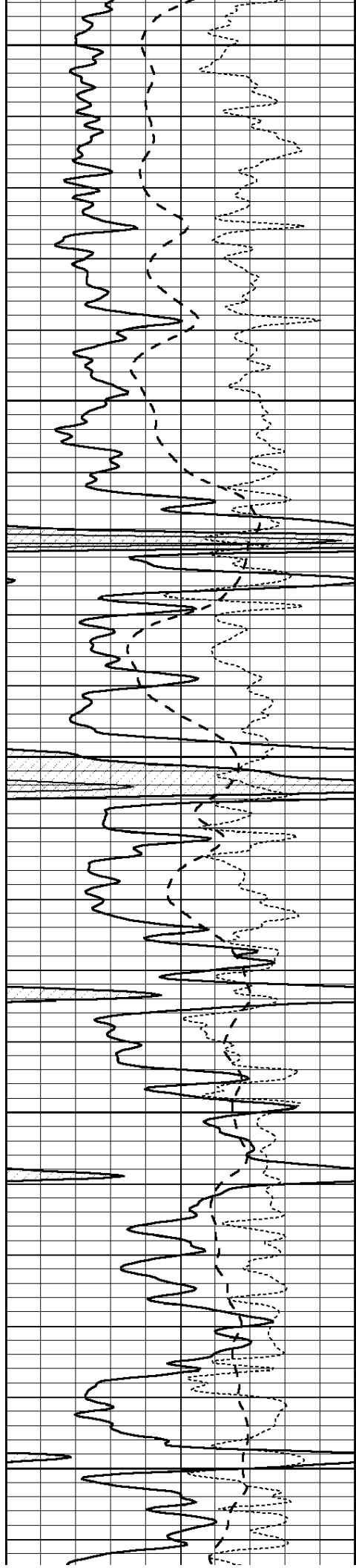
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4350





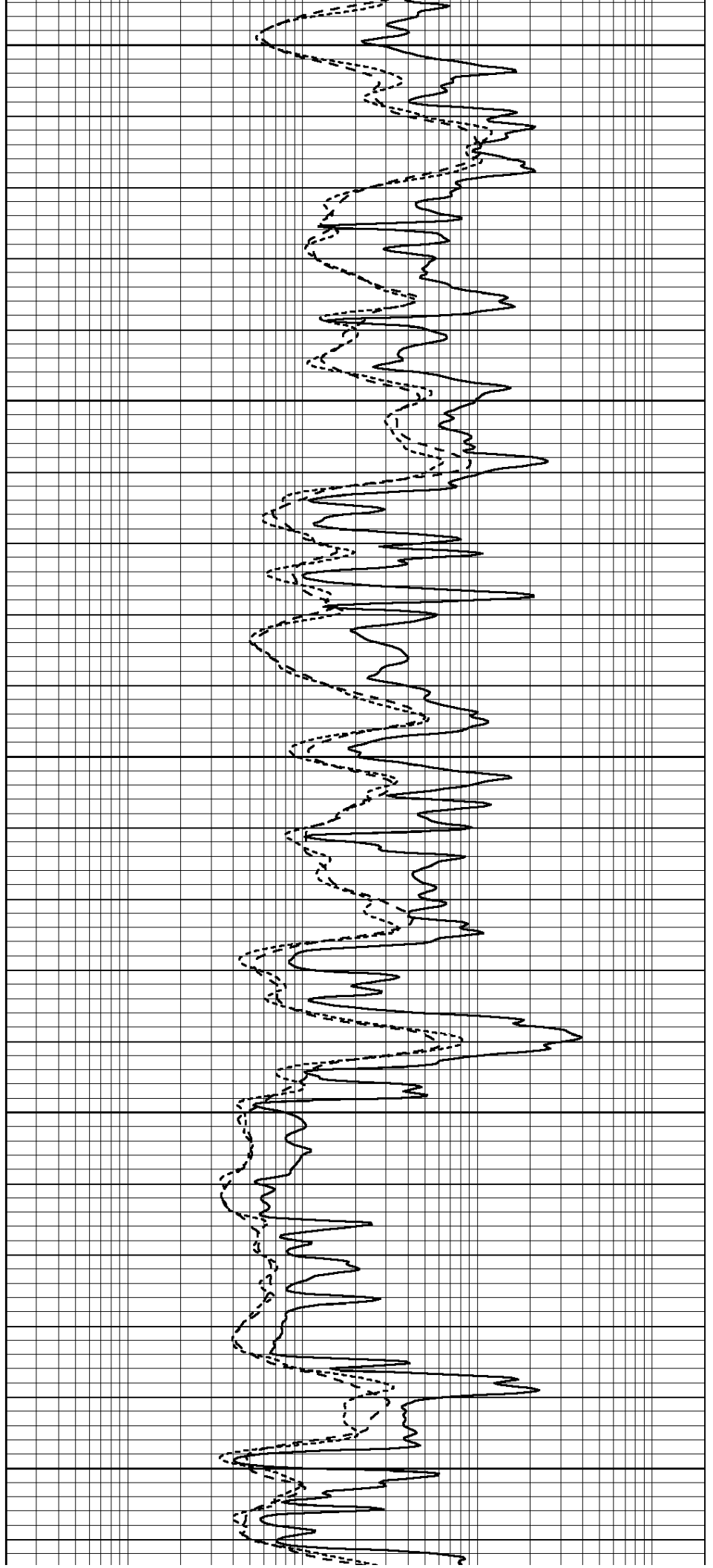
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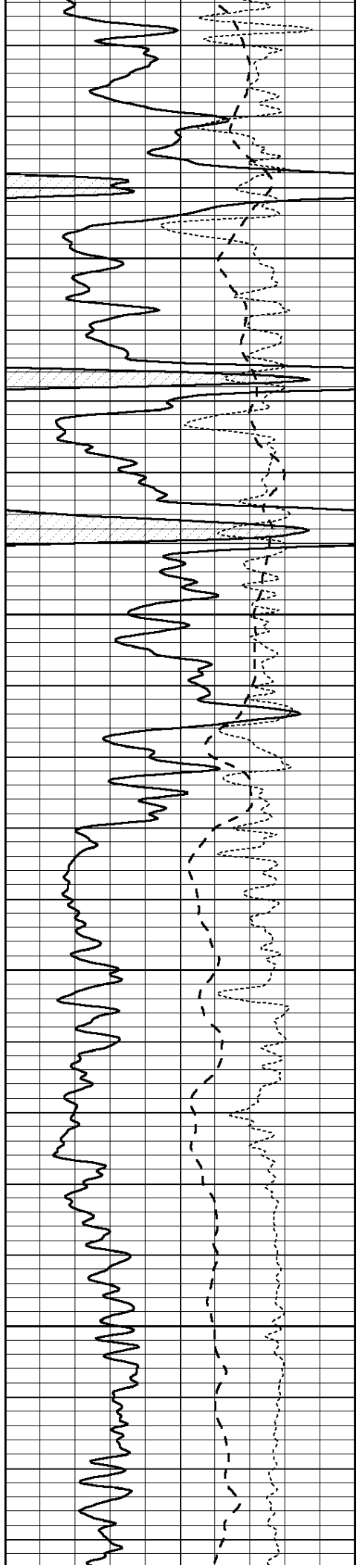
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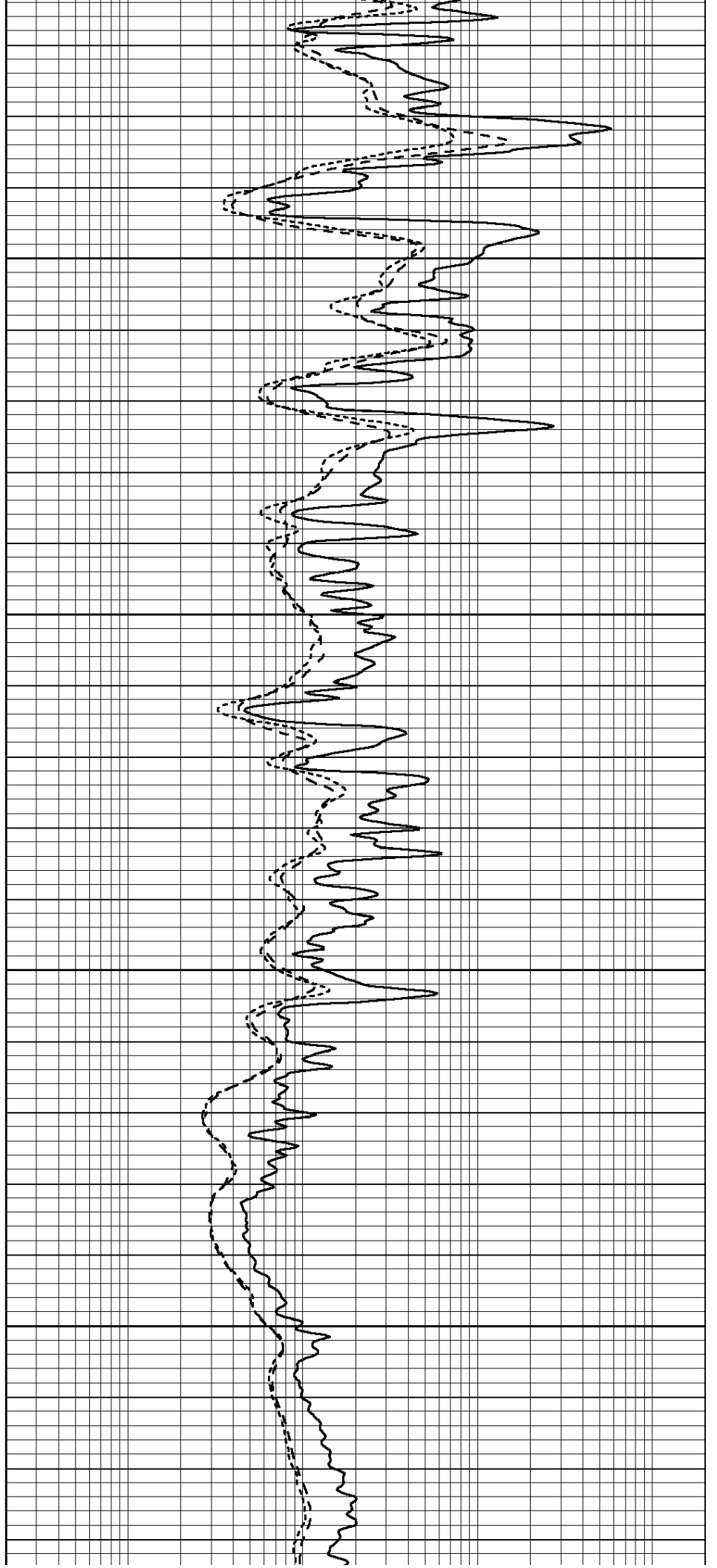


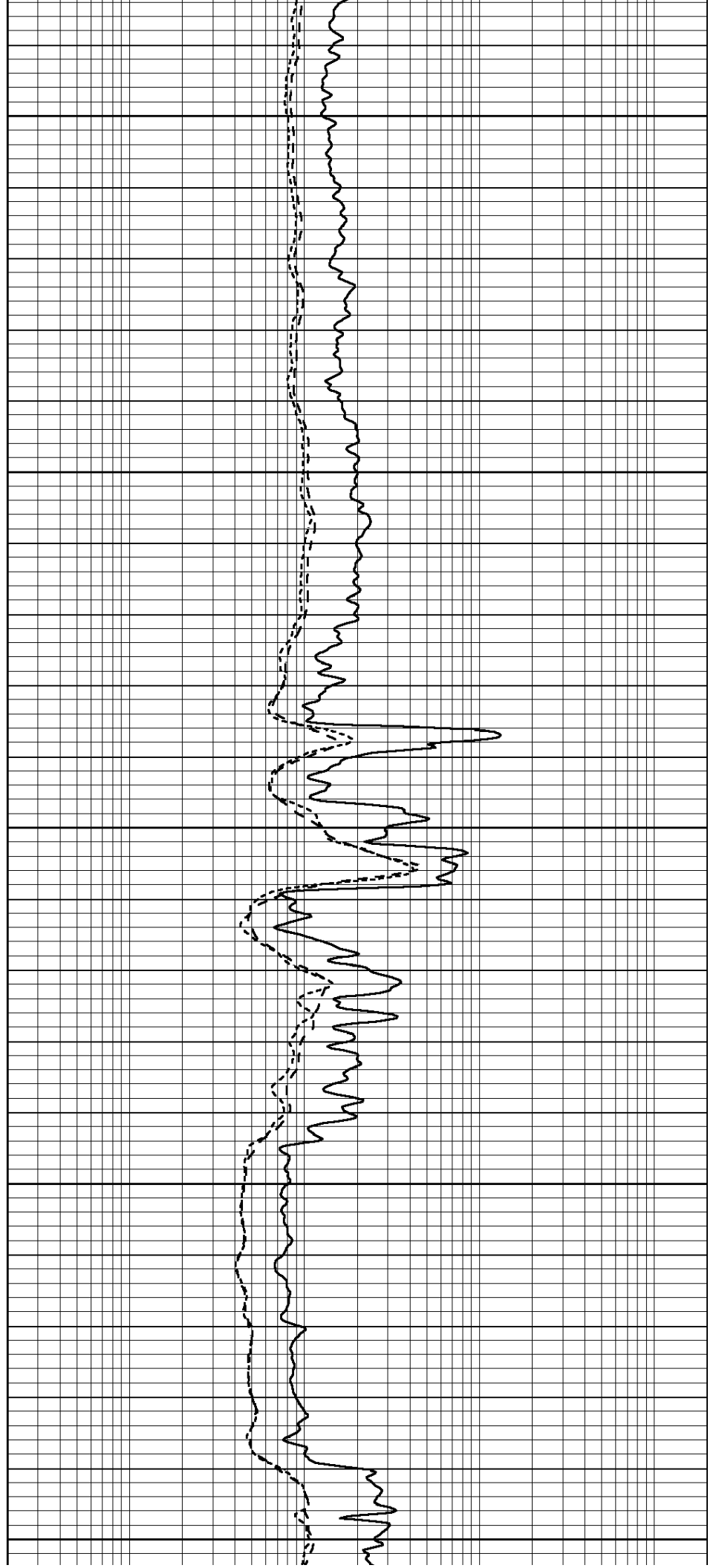
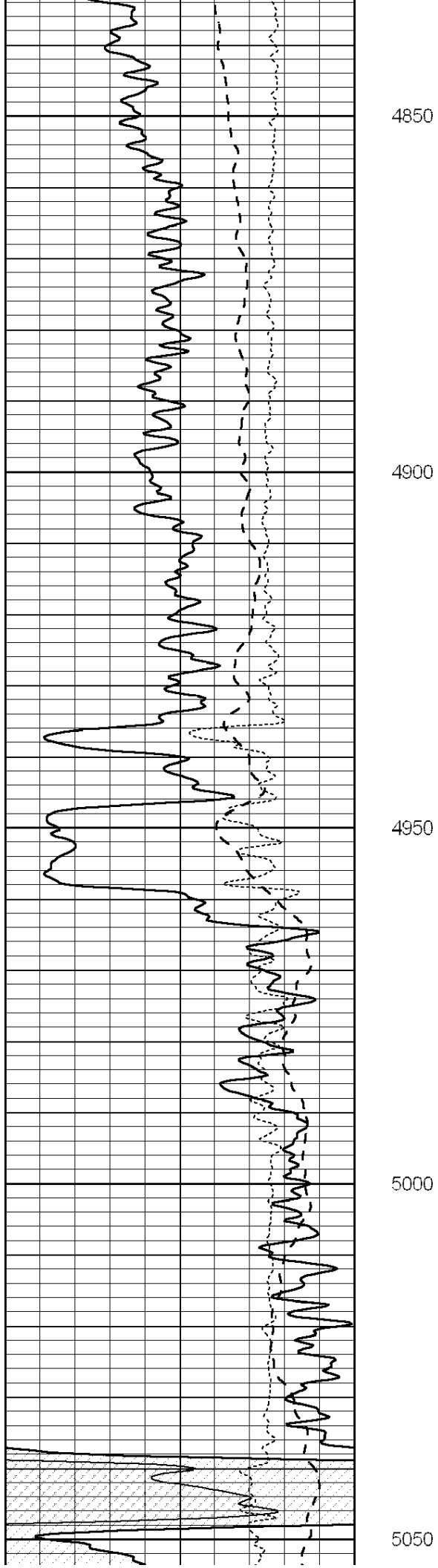
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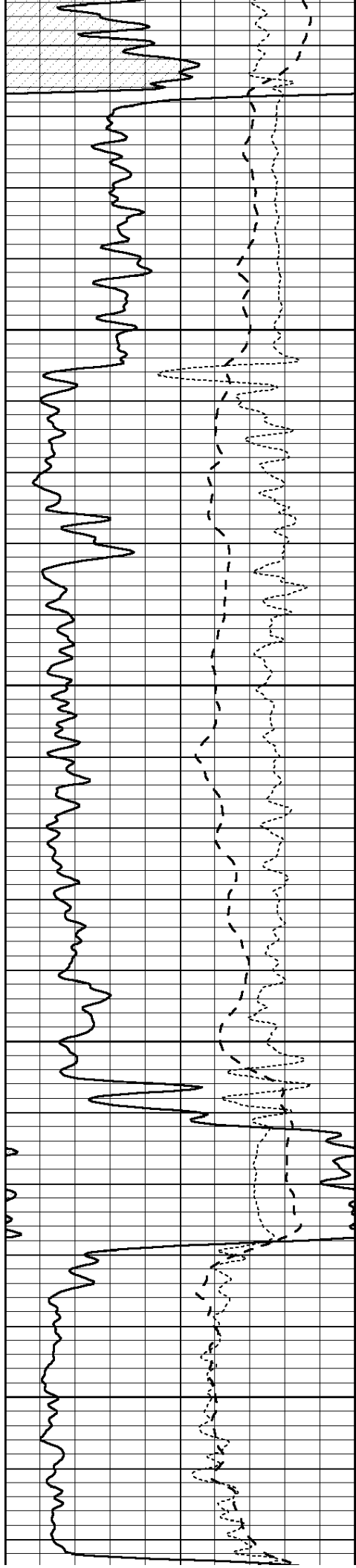
4700

4750

4800





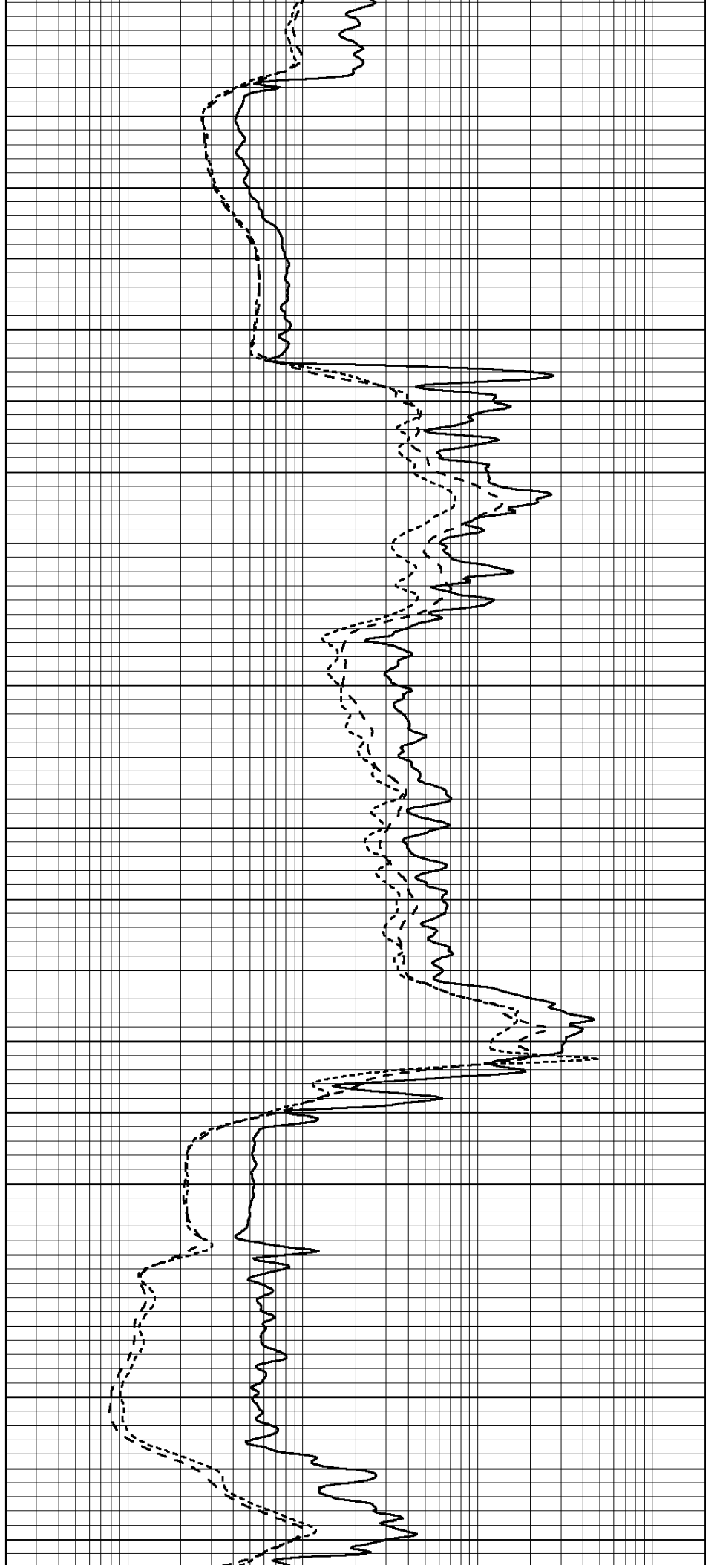


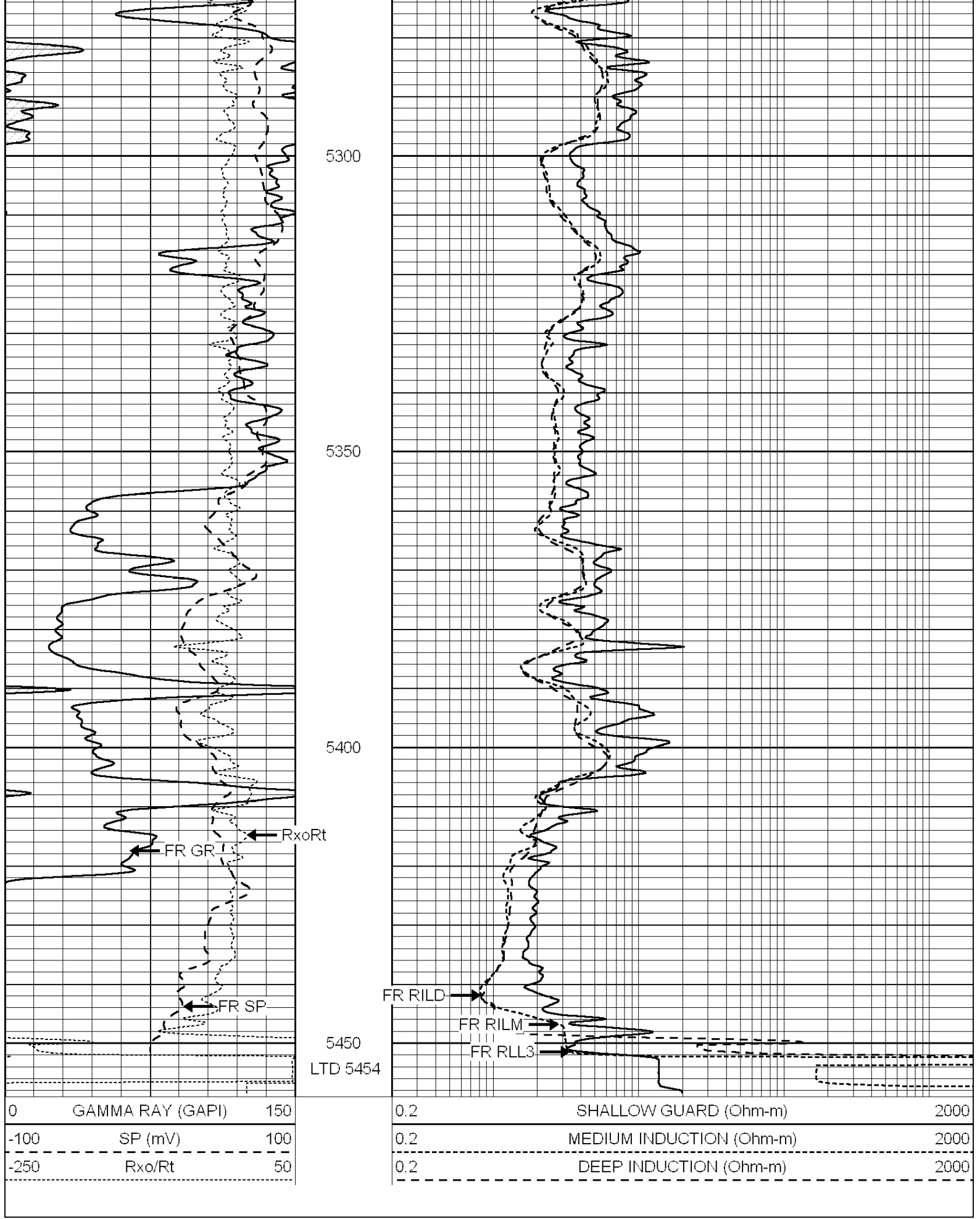
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5150

5200

5250





SUPERIOR

REPEAT SECTION

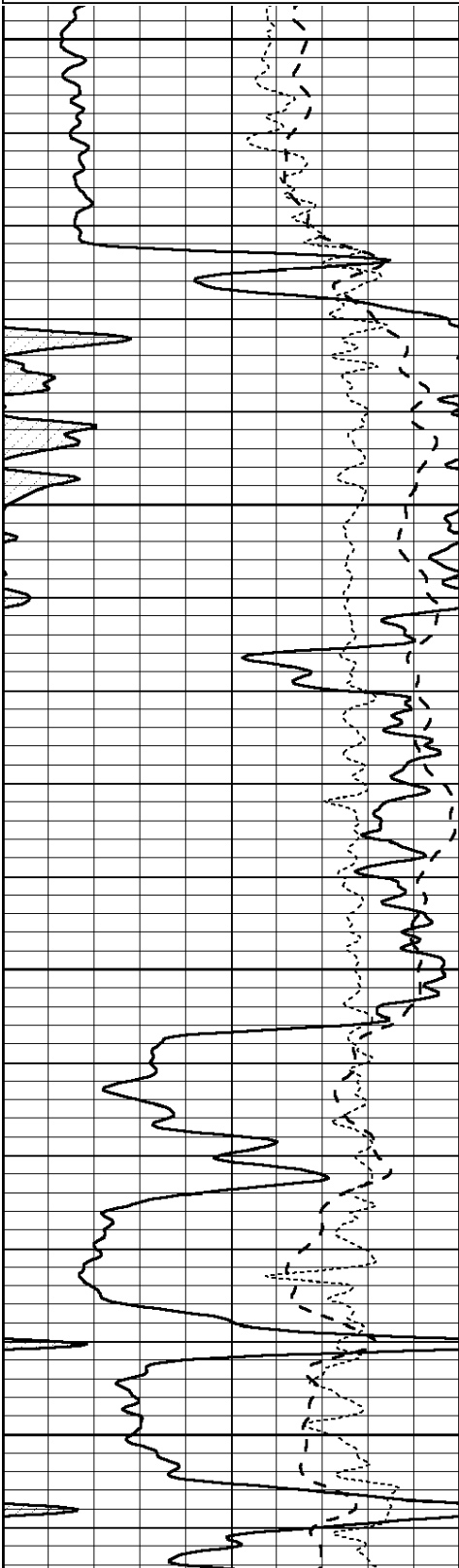


REPEAT SECTION

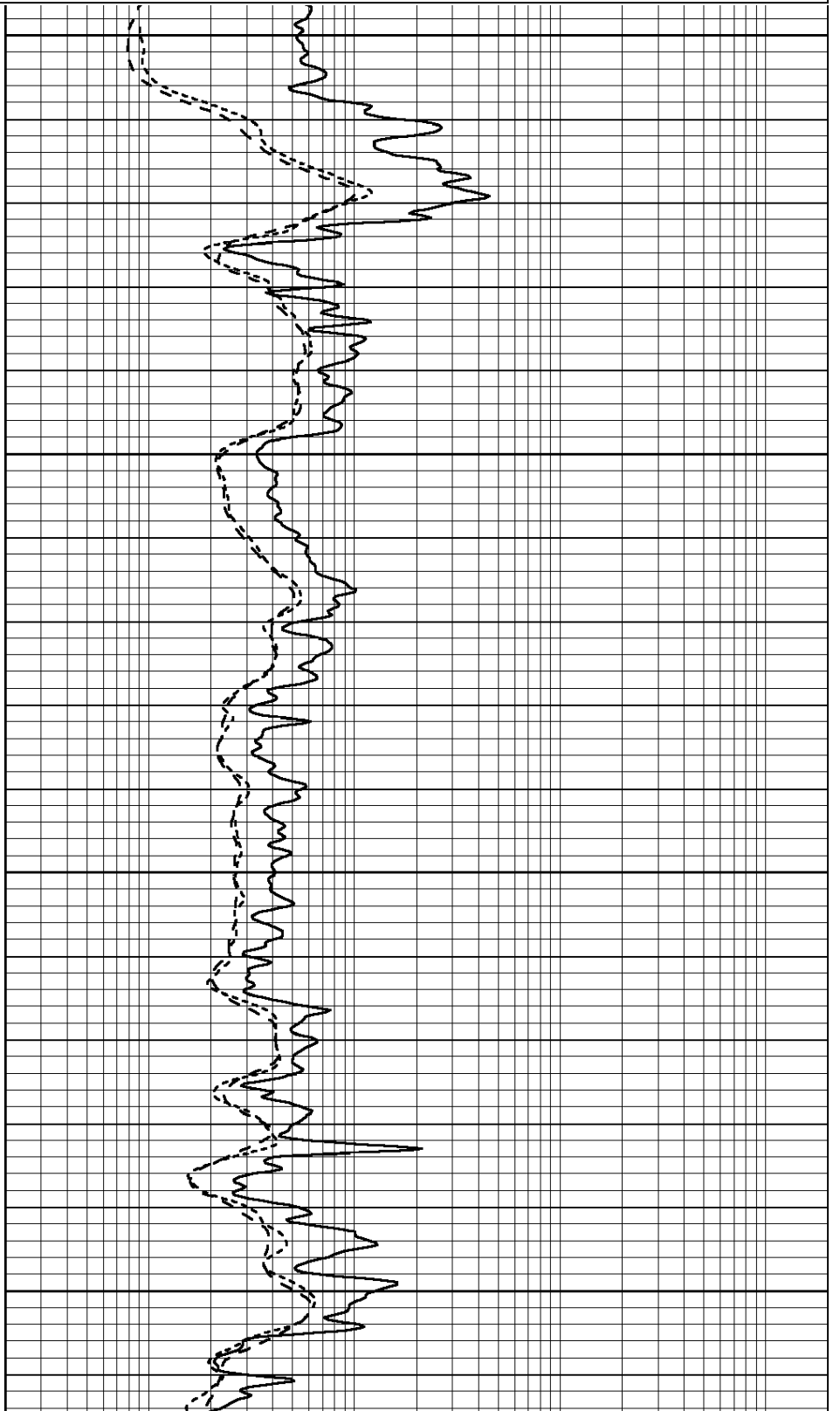
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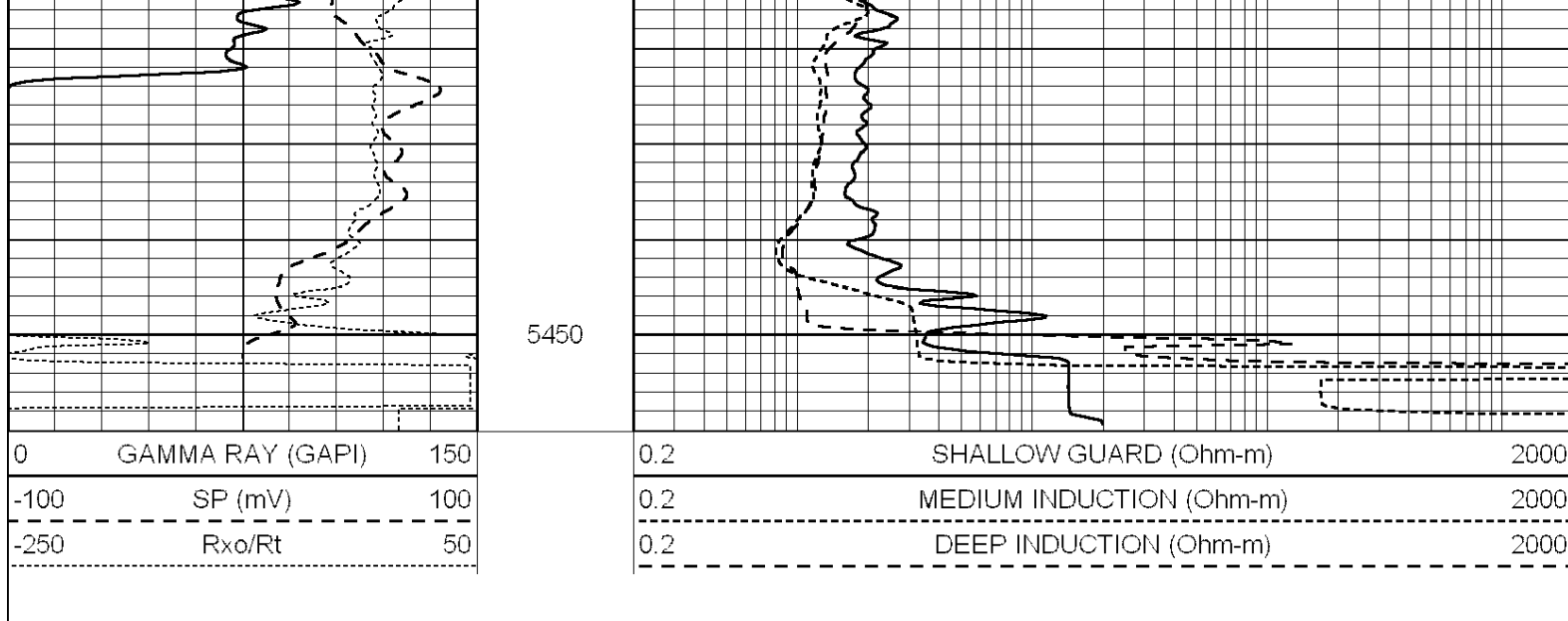
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



5250
5300
5350
5400





Calibration Report

Database File: 007715pe.db
 Dataset Pathname: pass3.6
 Dataset Creation: Tue Sep 20 20:35:36 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Wed Jul 30 06:14:24 2008
 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			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
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	0.000
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	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: 002 Model: PRB
 Performed Mon Oct 29 15:40:49 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1056.3	9118.0	2809.7	10378.4	cps
Window 2	969.9	7671.9	2431.6	8565.8	cps
Window 3	683.8	2939.8	1161.0	3161.8	cps
Window 4	231.4	231.6	226.7	230.8	cps
Long Space	0.0	6702.0	1461.7	7595.9	cps
Short Space	1.2	1433.6	959.4	1568.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.559
Spine Angle	: 75.2	Spine Slope	: 3.791	Spine Intercept	: -18.7

Caliper

	Readings	Reference	
Low Ref	3.7	8.0	
High Ref	6.1	14.0	
	Gain: 2.5		Offset: -1.2

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

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