



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company ATLAS OPERATING, LLC.
Well B & A SMITH #6-8
Field SPIVEY - GRABS - BASIL
County HARPER
State KANSAS

Company ATLAS OPERATING, LLC.
Well B & A SMITH #6-8
Field SPIVEY - GRABS - BASIL
County HARPER State KANSAS

Location: API # : 15-077-21731-0000
2310' FNL & 890' FEL
E/2 - SW - SE - NE
SEC 8 TWP 31S RGE 8W
Permanent Datum GROUND LEVEL Elevation 1642
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
MEL
Elevation
K.B. 1652
D.F. 1650
G.L. 1642

Date	1/30/11		
Run Number	ONE		
Depth Driller	4550		
Depth Logger	4552		
Bottom Logged Interval	4550		
Top Log Interval	00		
Casing Driller	8 5/8"@237'		
Casing Logger	236		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,000 PPM	
Density / Viscosity	9.3/45		
pH / Fluid Loss	10.5/9.0		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.850@50F		
Rinf @ Meas. Temp	.638@50F		
Rinc @ Meas. Temp	1.02@50F		
Source of Rinf / Rinc	MEASUREMENT		
Rin @ BHT	.351@121F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	10:45 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	PAT DEENIHAN		

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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

ZENDA, KS. 4E. ON HWY 42 TO "SW 50 RD.", S. TO "NW 150 RD." (SPIVEY GAS PLANT) 1E., 1/2S., W. INT



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MAIN SECTION

Database File: 006279ddn.db
Dataset Pathname: pass3.11
Presentation Format: dil2
Dataset Creation: Mon Jan 31 01:05:55 2011
Charted by: Depth in Feet scaled 1:600

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

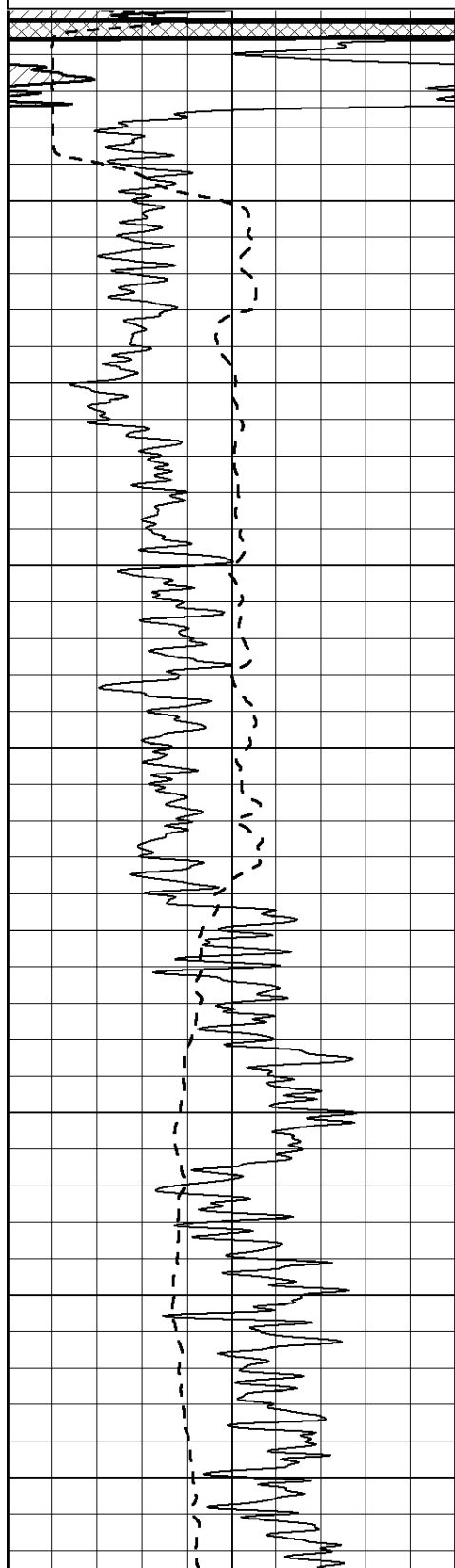
0	RLL3 (Ohm-m)	50
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0	RILD (Ohm-m)	50
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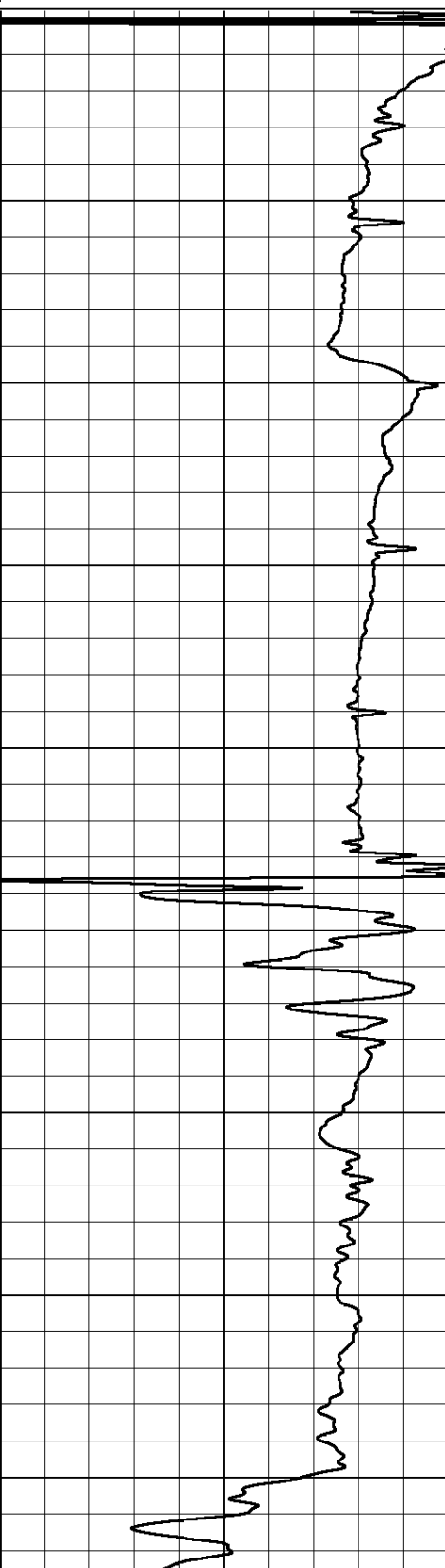
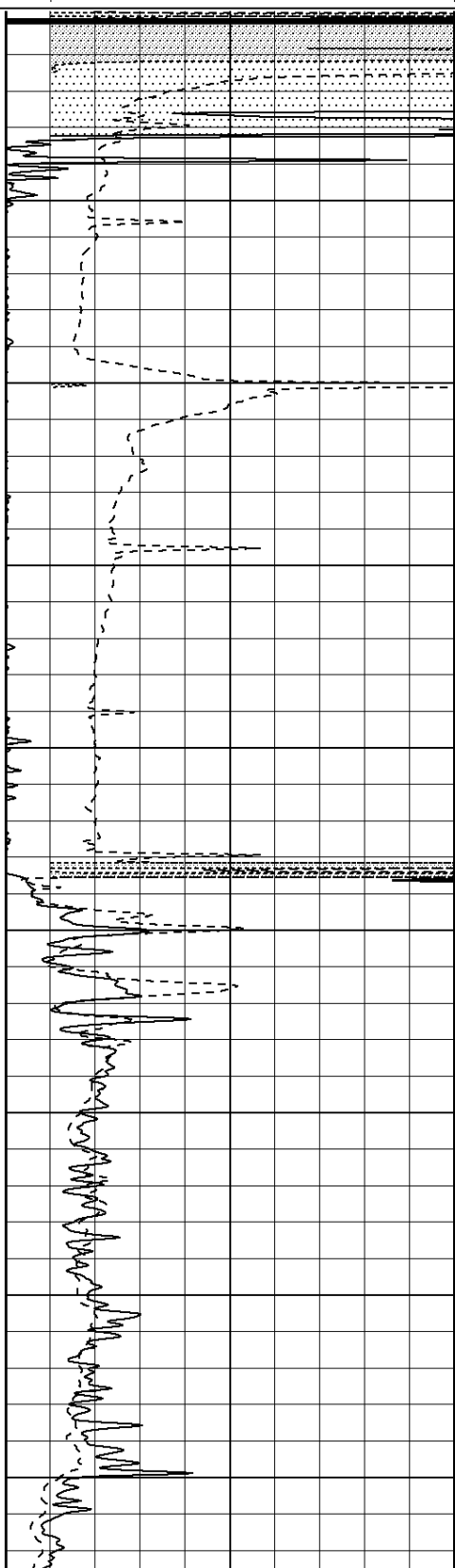
1000	CILD (mmho/m)	0
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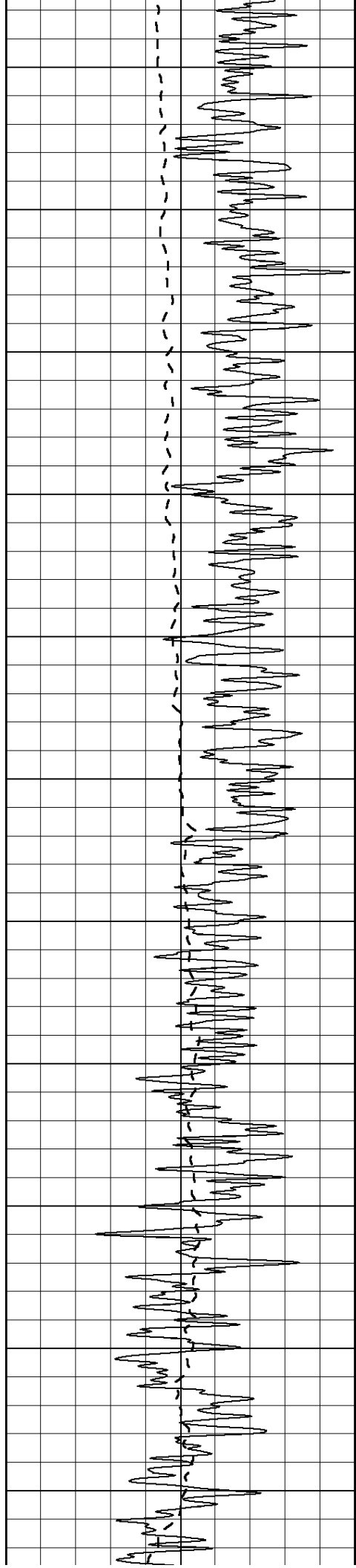
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50	RLL3 X10 (Ohm-m)	500
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0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

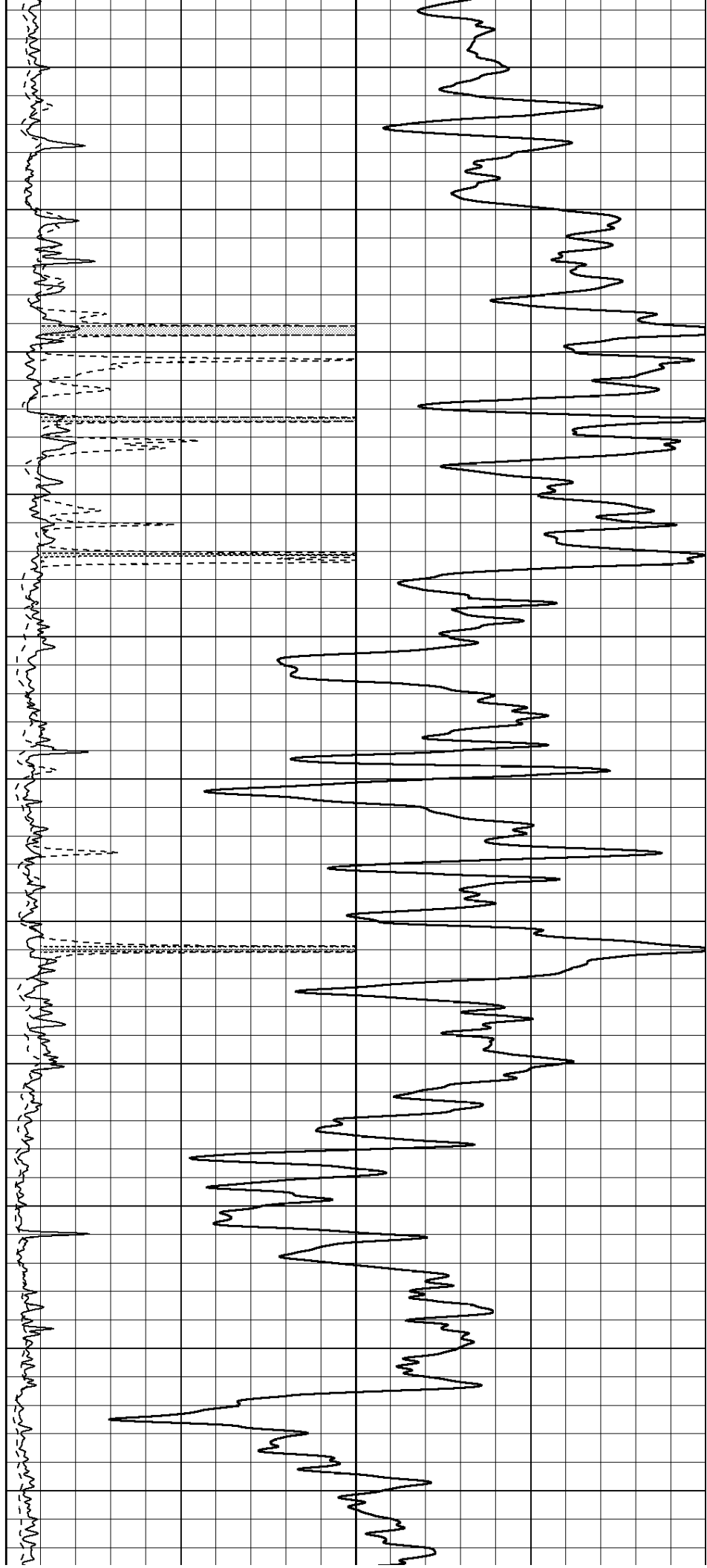
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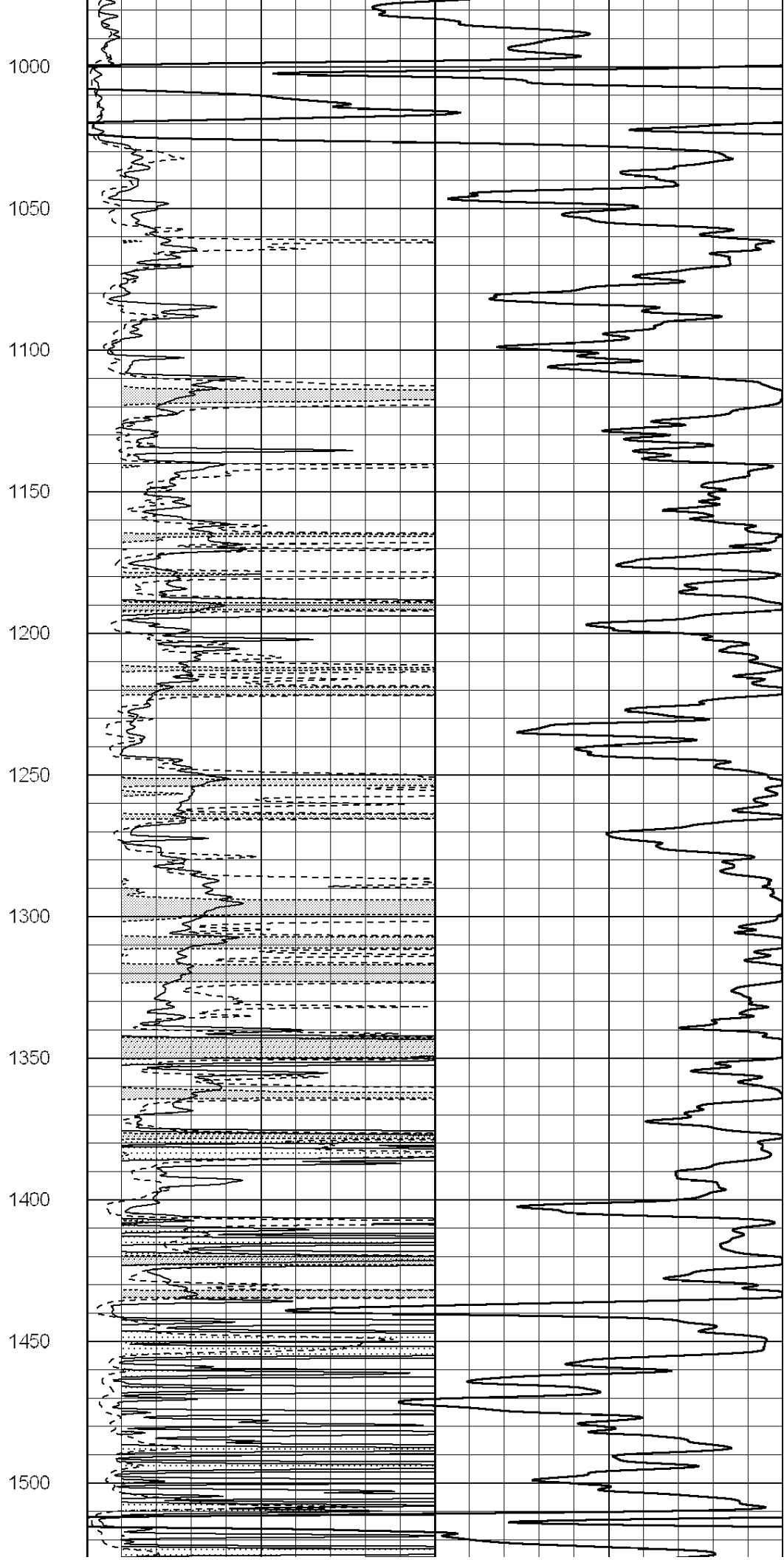
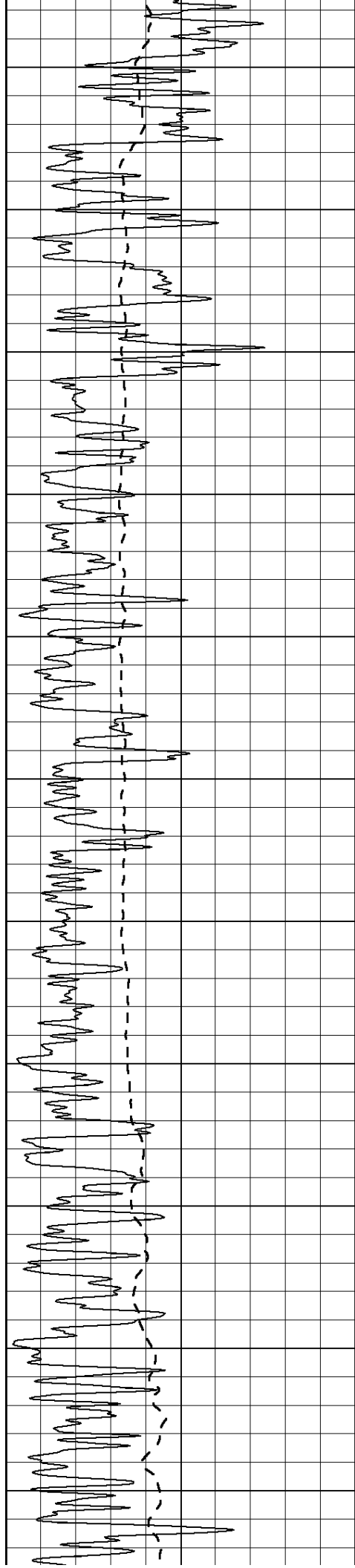
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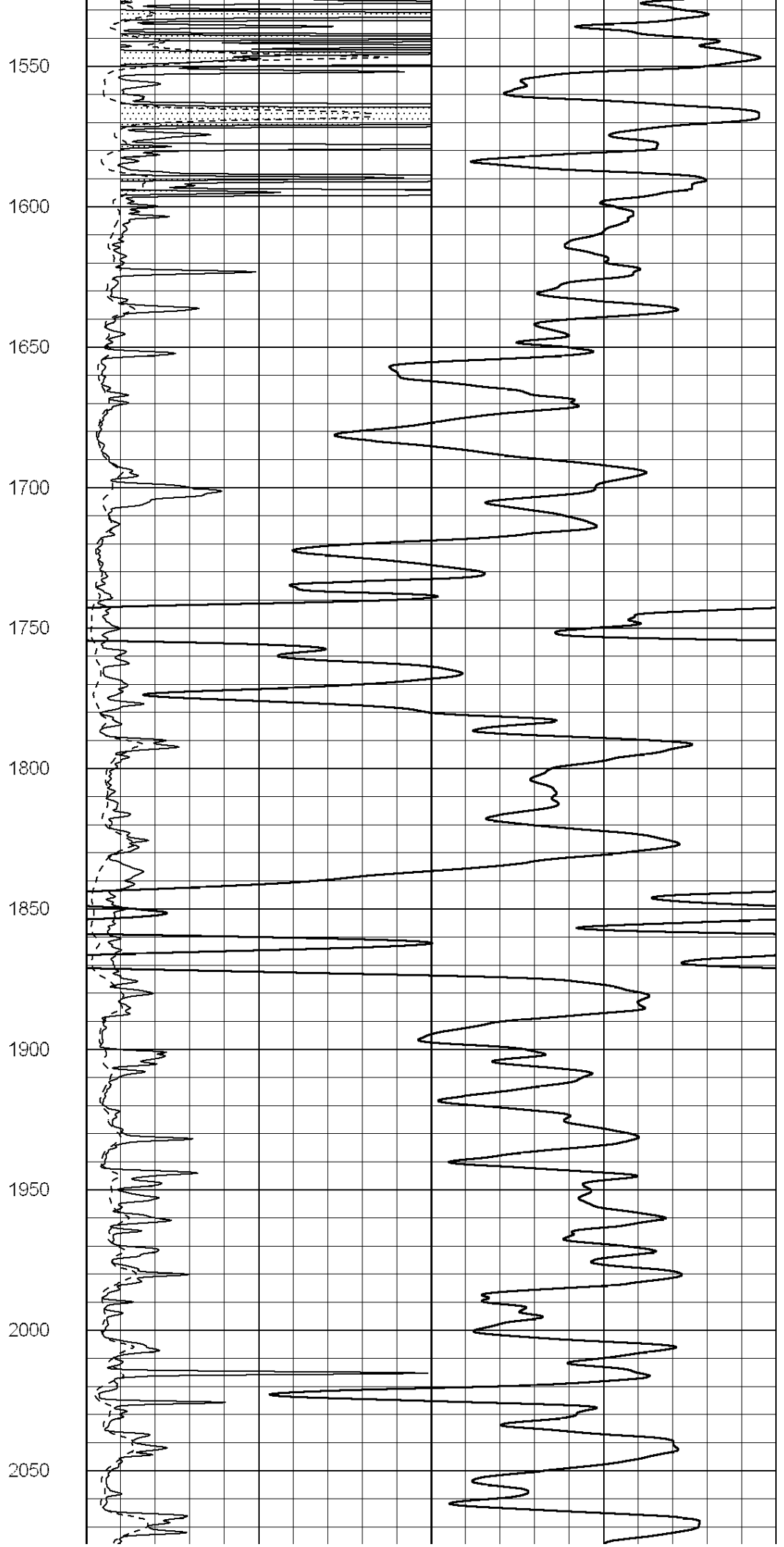
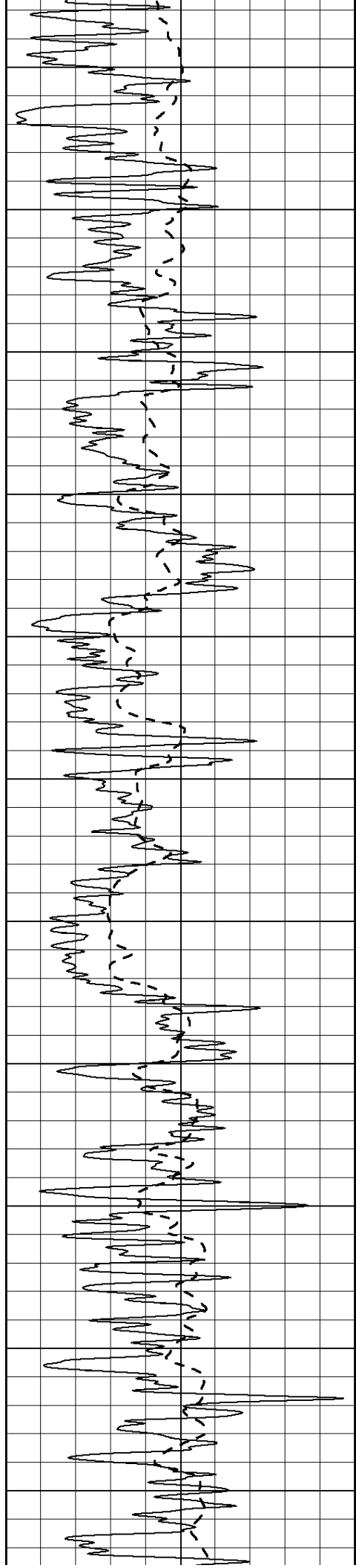
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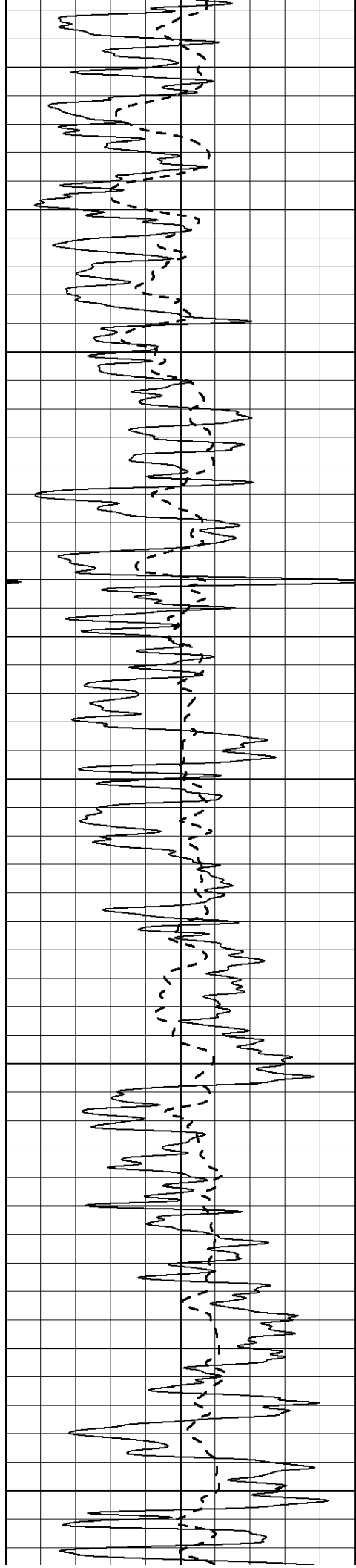
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950









2100

2150

2200

2250

2300

2350

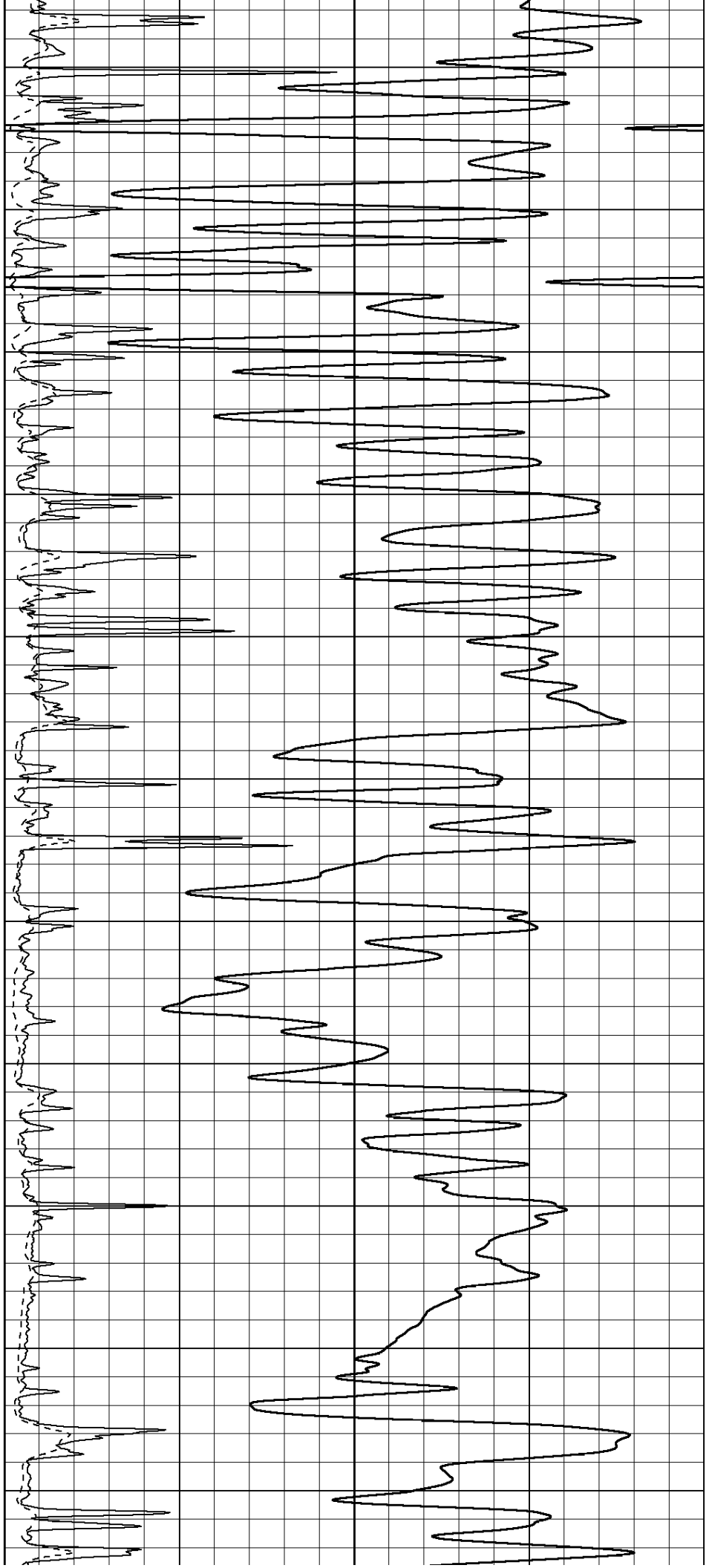
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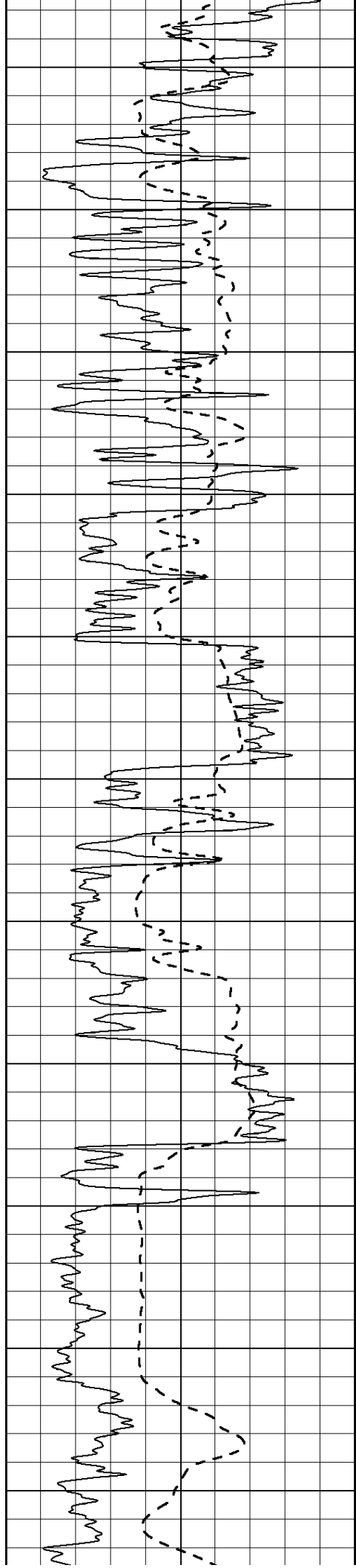
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2500

2550

2600





2650

2700

2750

2800

2850

2900

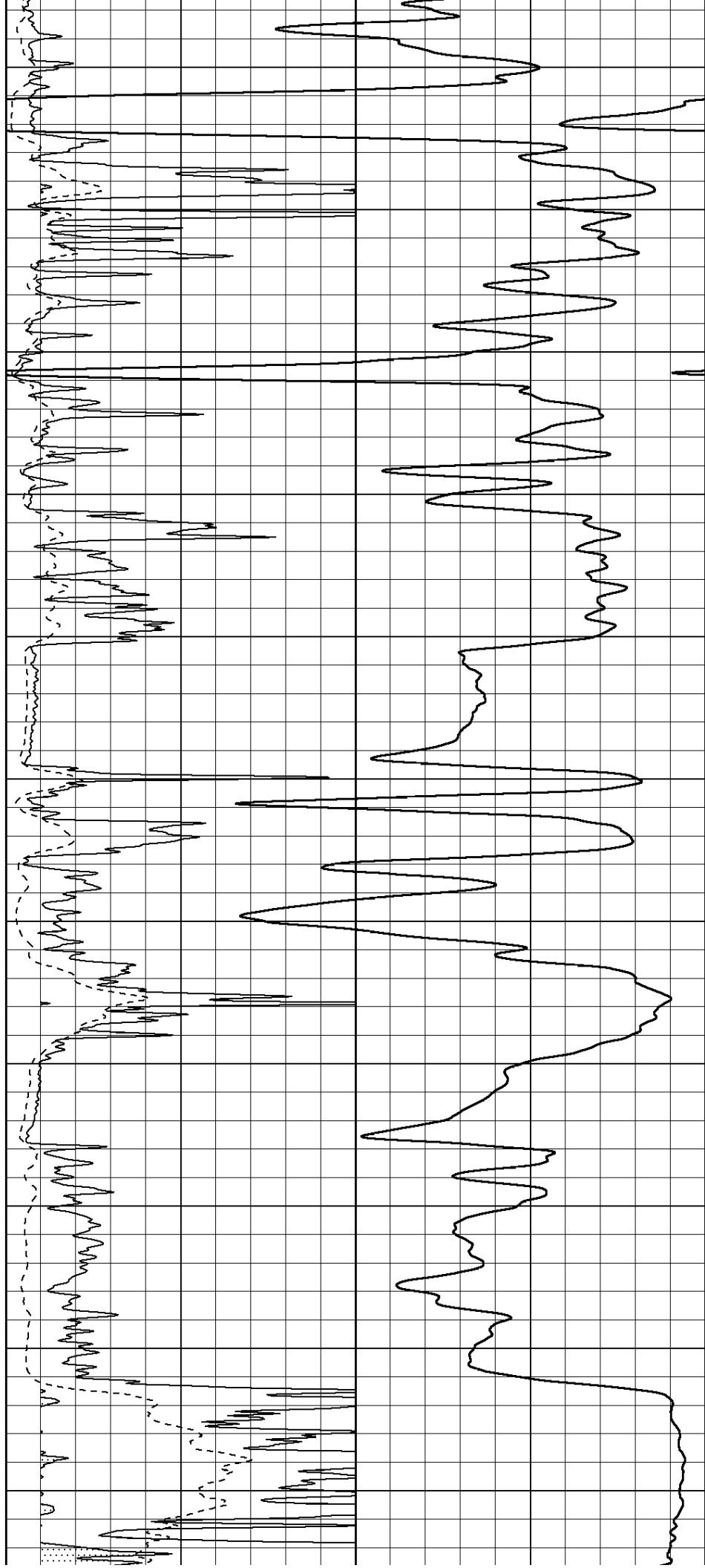
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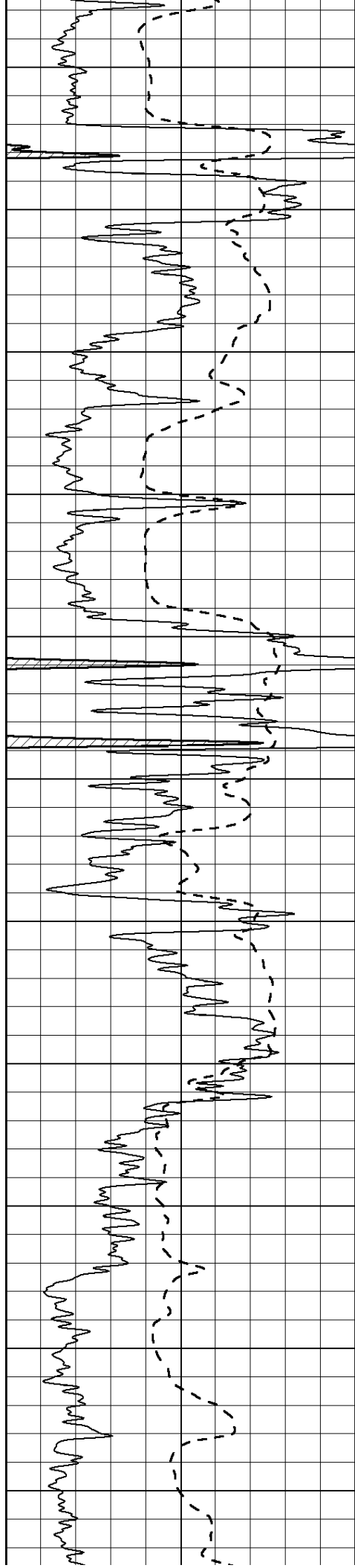
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3050

3100

3150





3200

3250

3300

3350

3400

3450

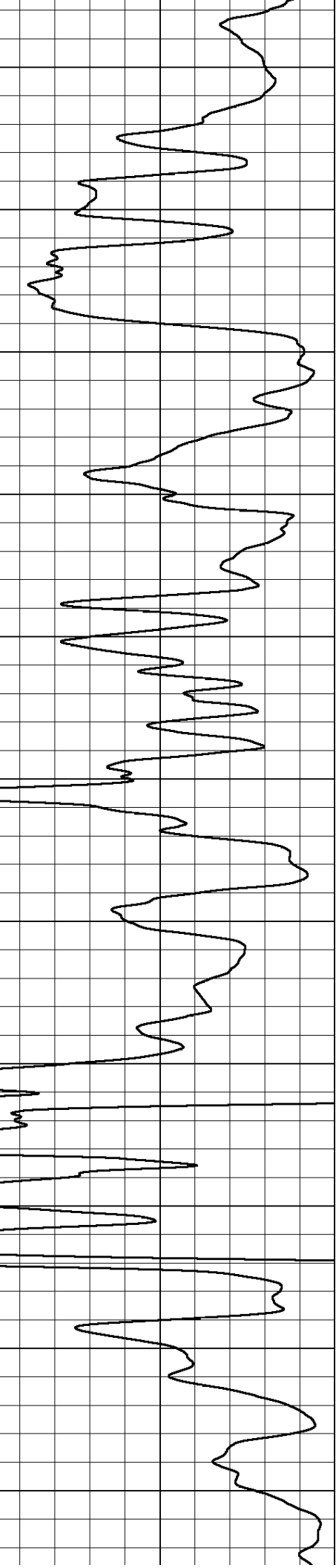
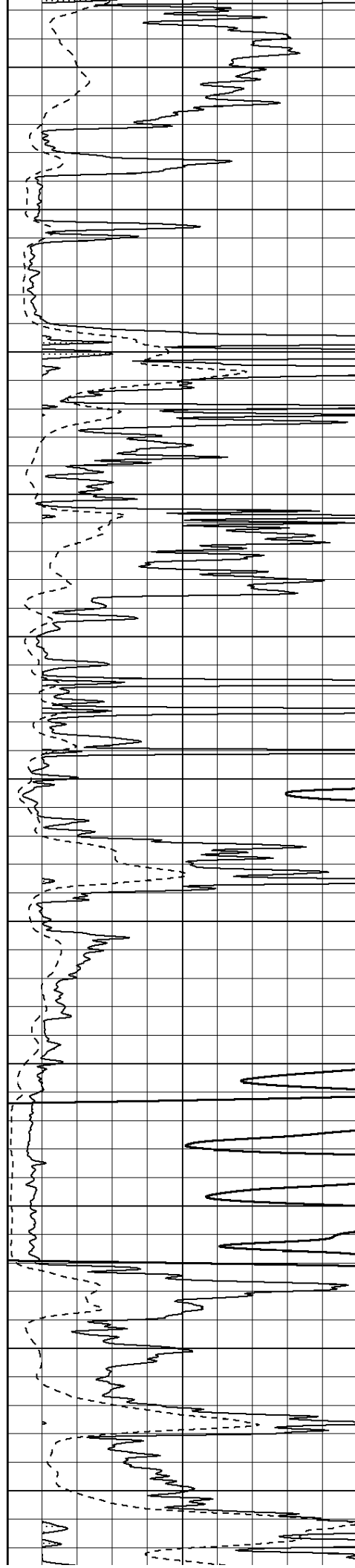
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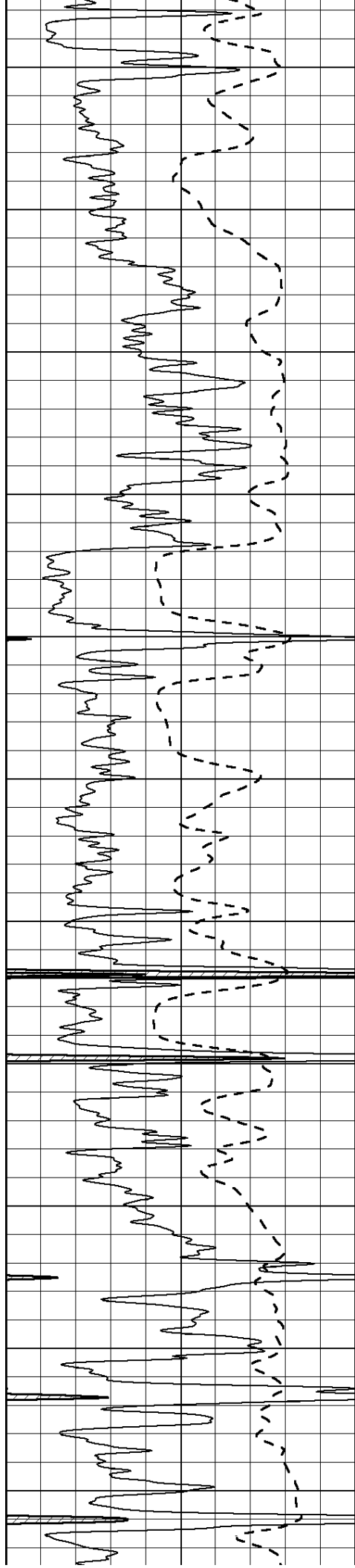
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3650

3700





3750

3800

3850

3900

3950

4000

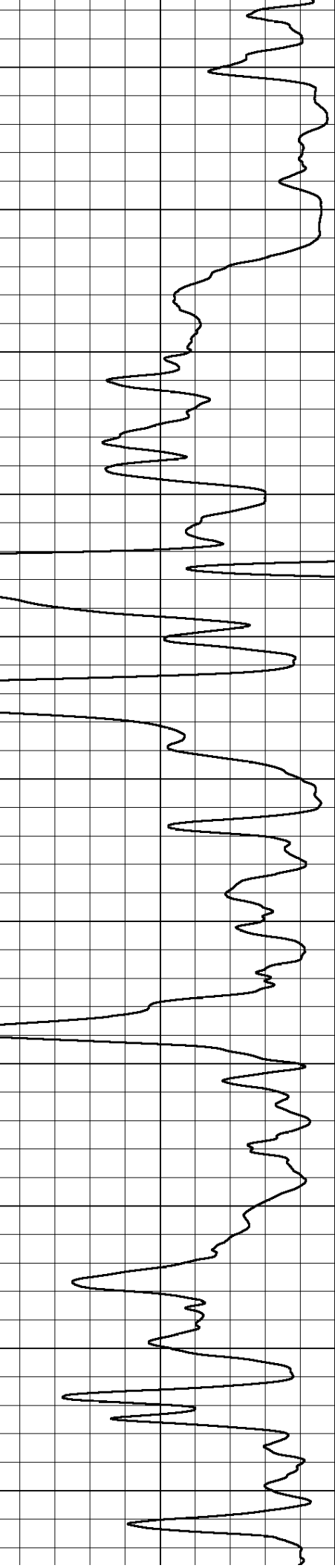
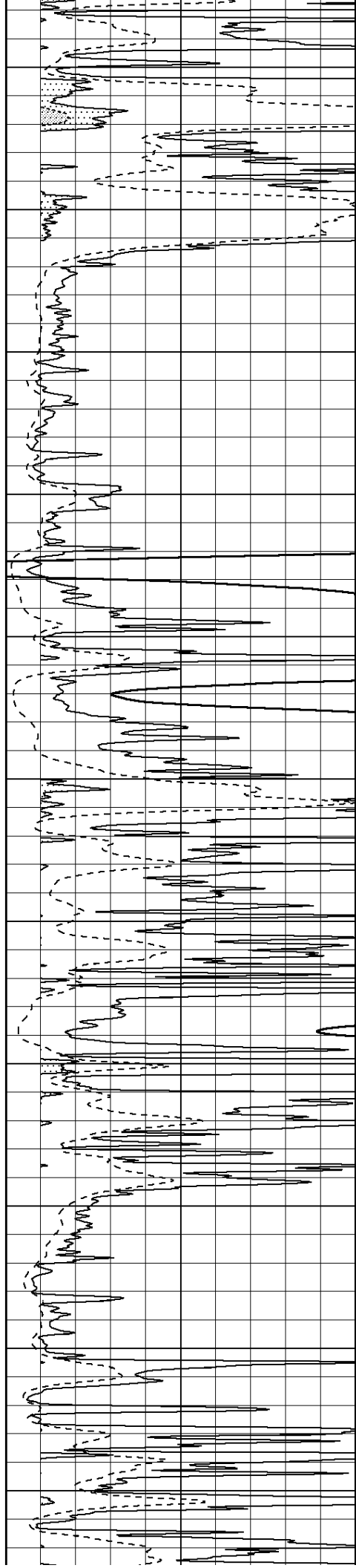
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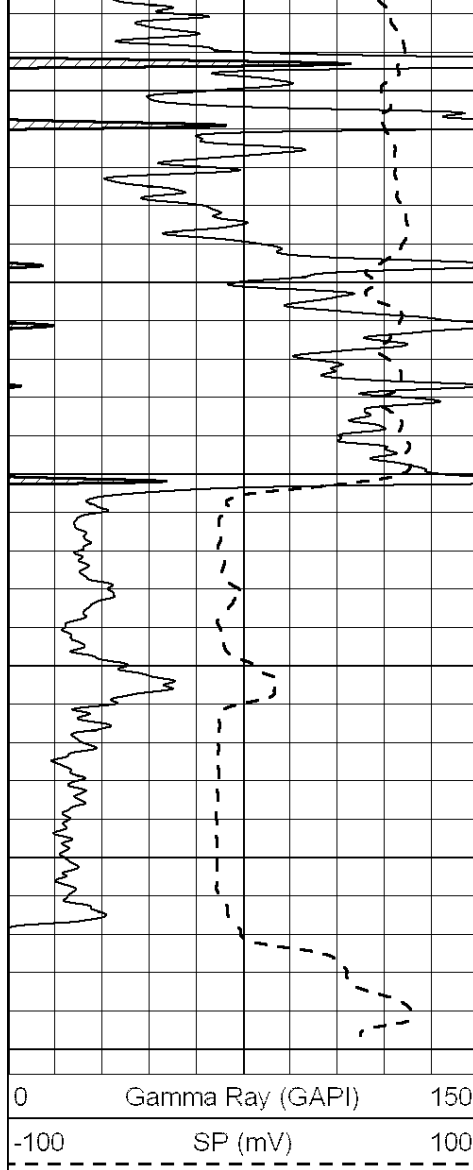
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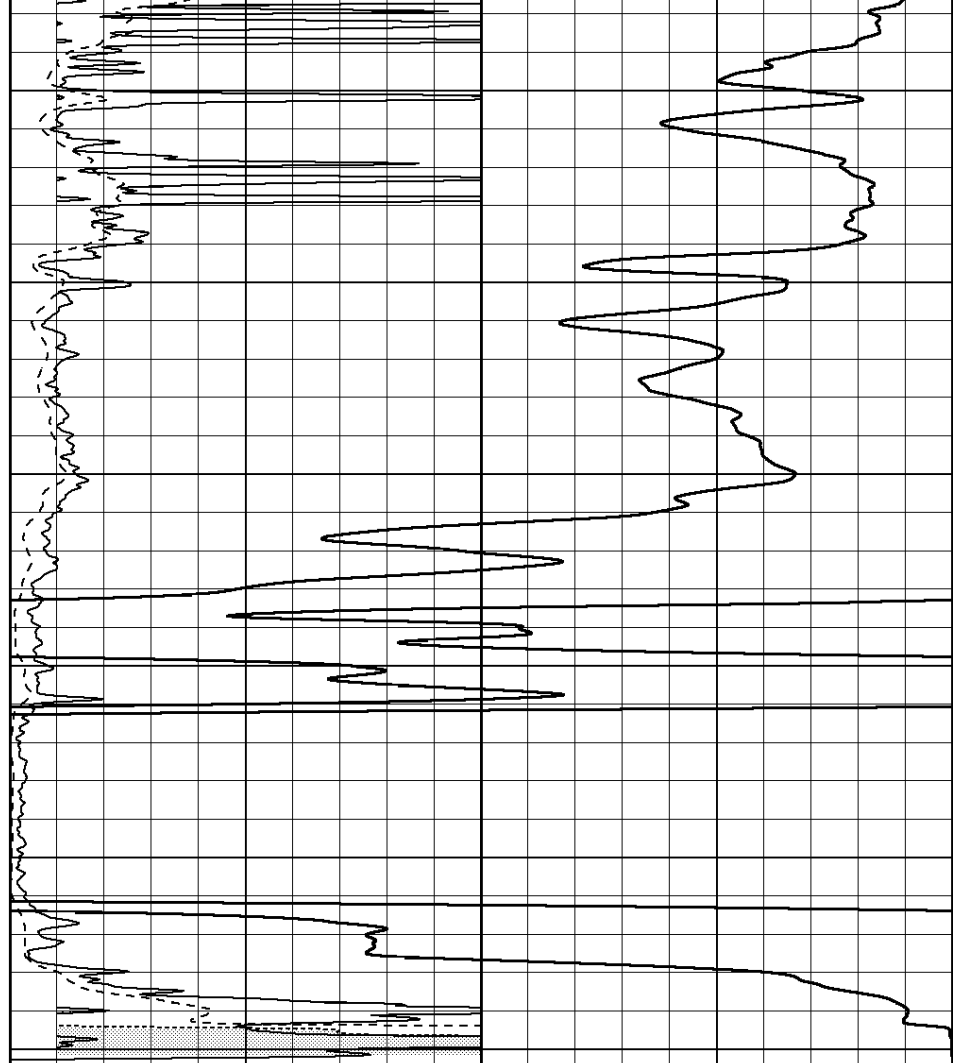
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4250





4300
4350
4400
4450
4500
4550



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



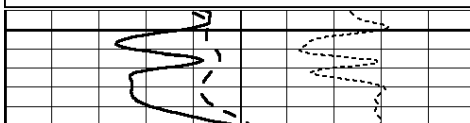
SUPERIOR
Hays,
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MAIN SECTION

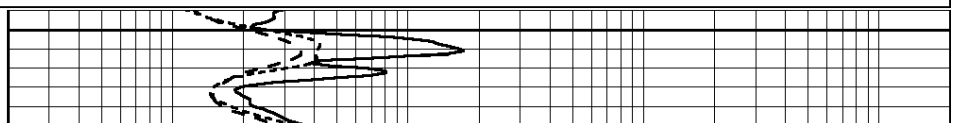
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Dataset Pathname: pass3.11
Presentation Format: dil
Dataset Creation: Mon Jan 31 01:05:55 2011
Charted by: Depth in Feet scaled 1:240

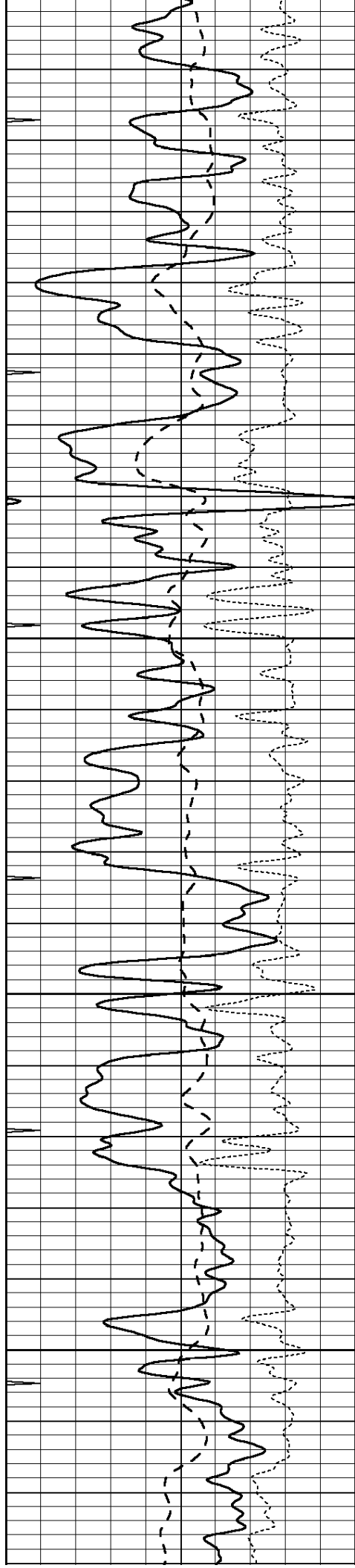
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

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



2200



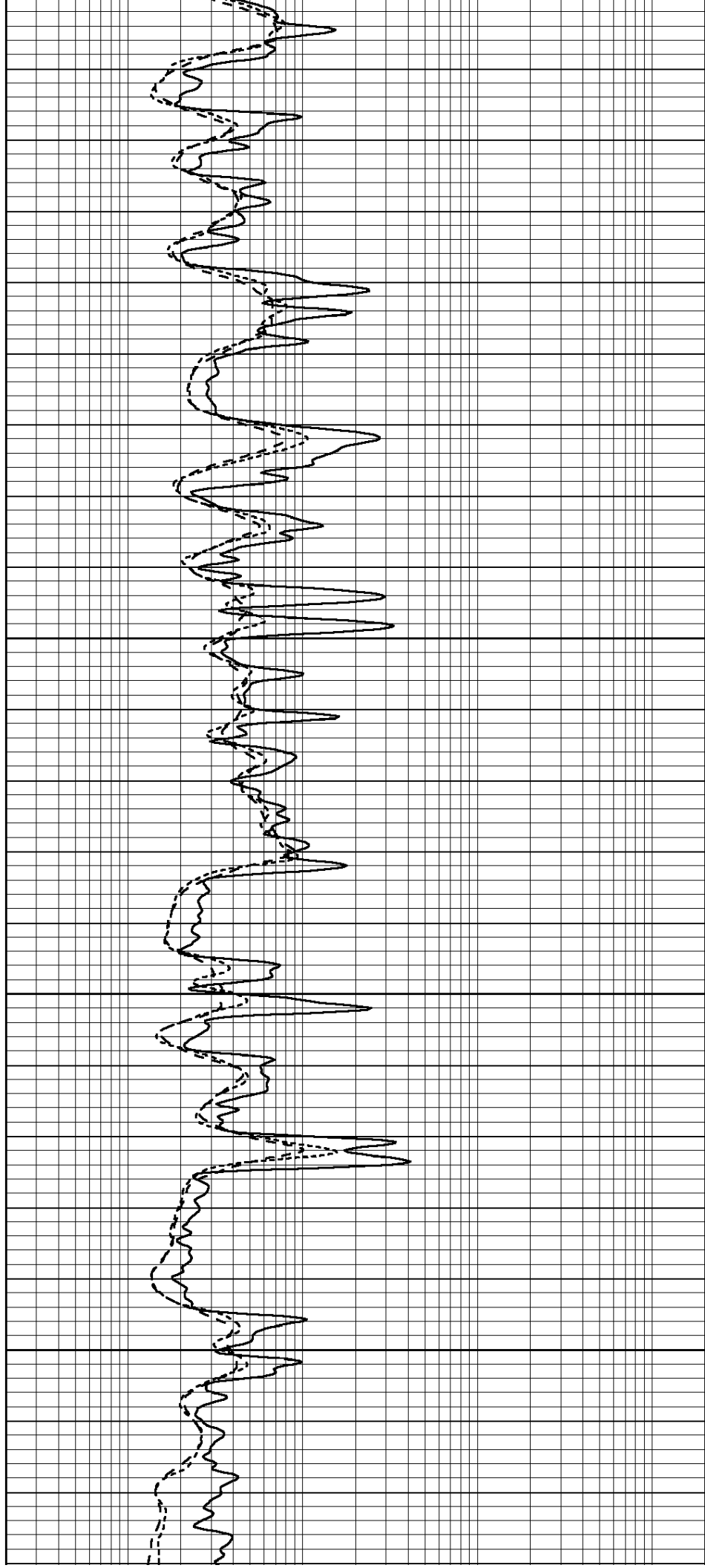


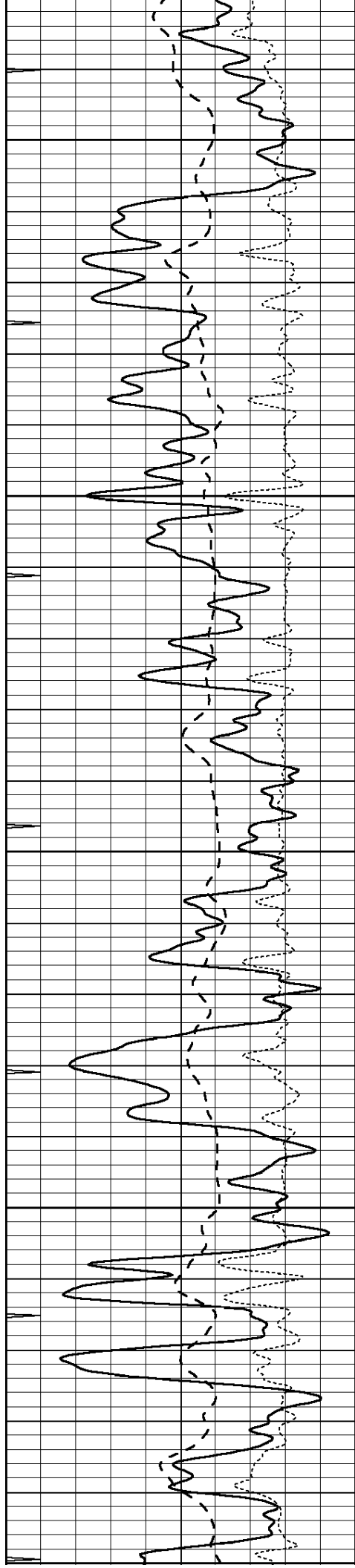
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2300

2350

2400





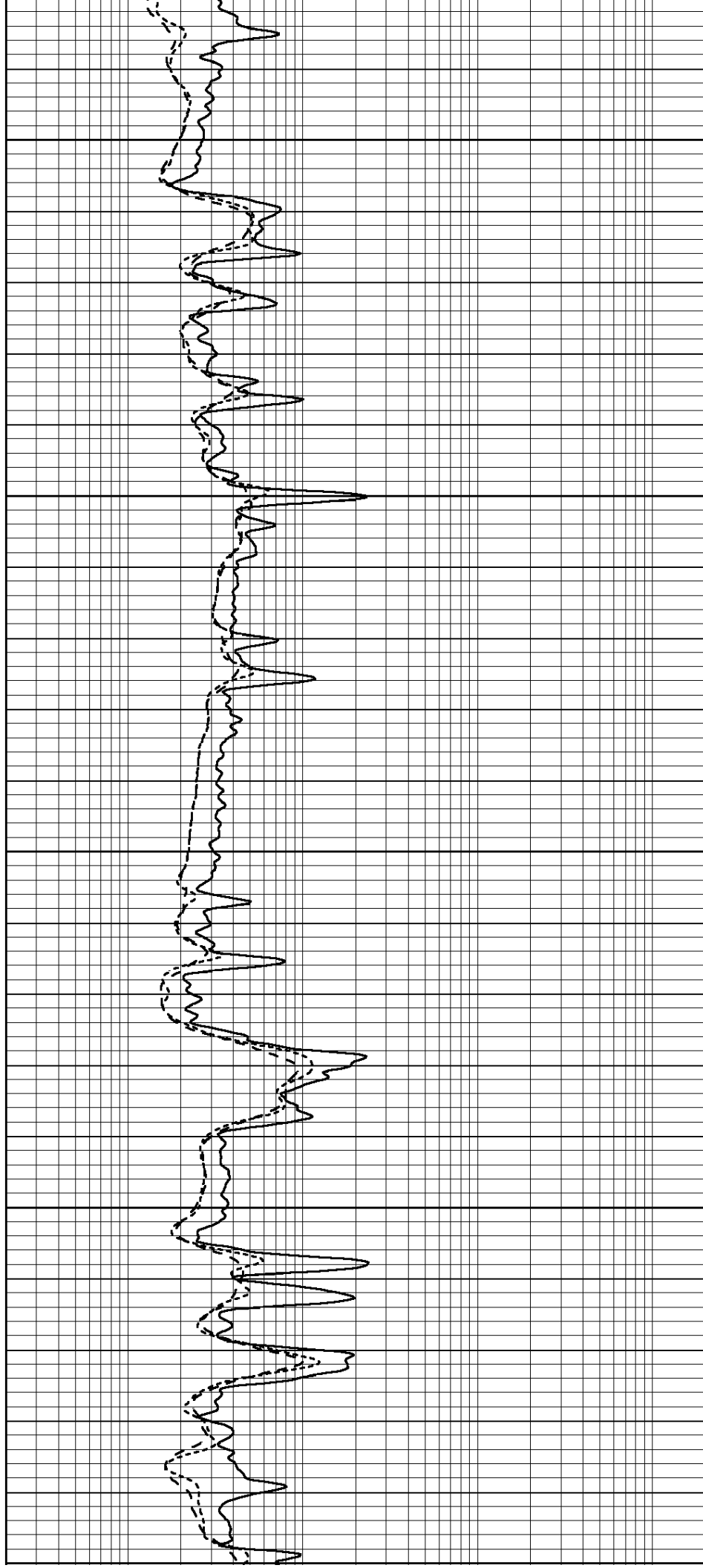
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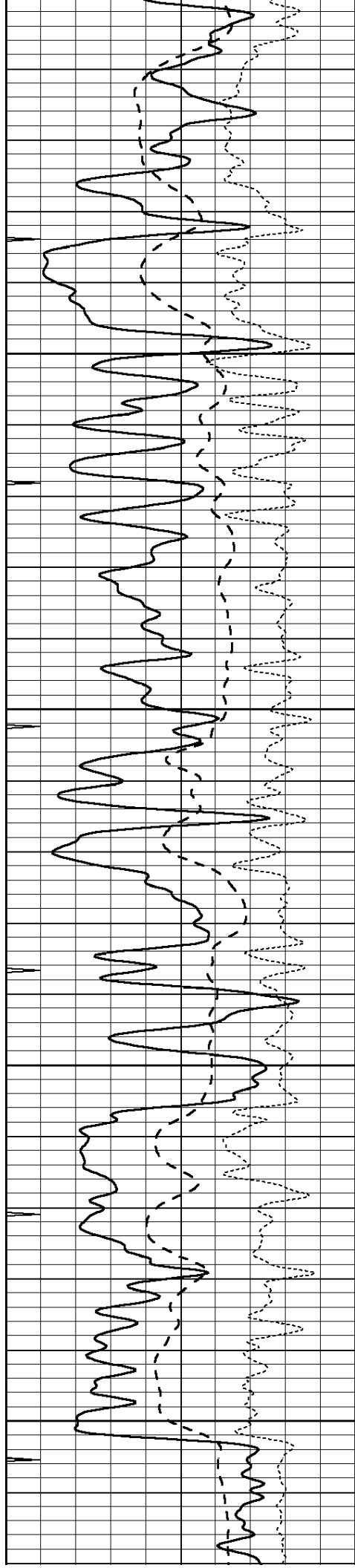
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2550

2600

2650





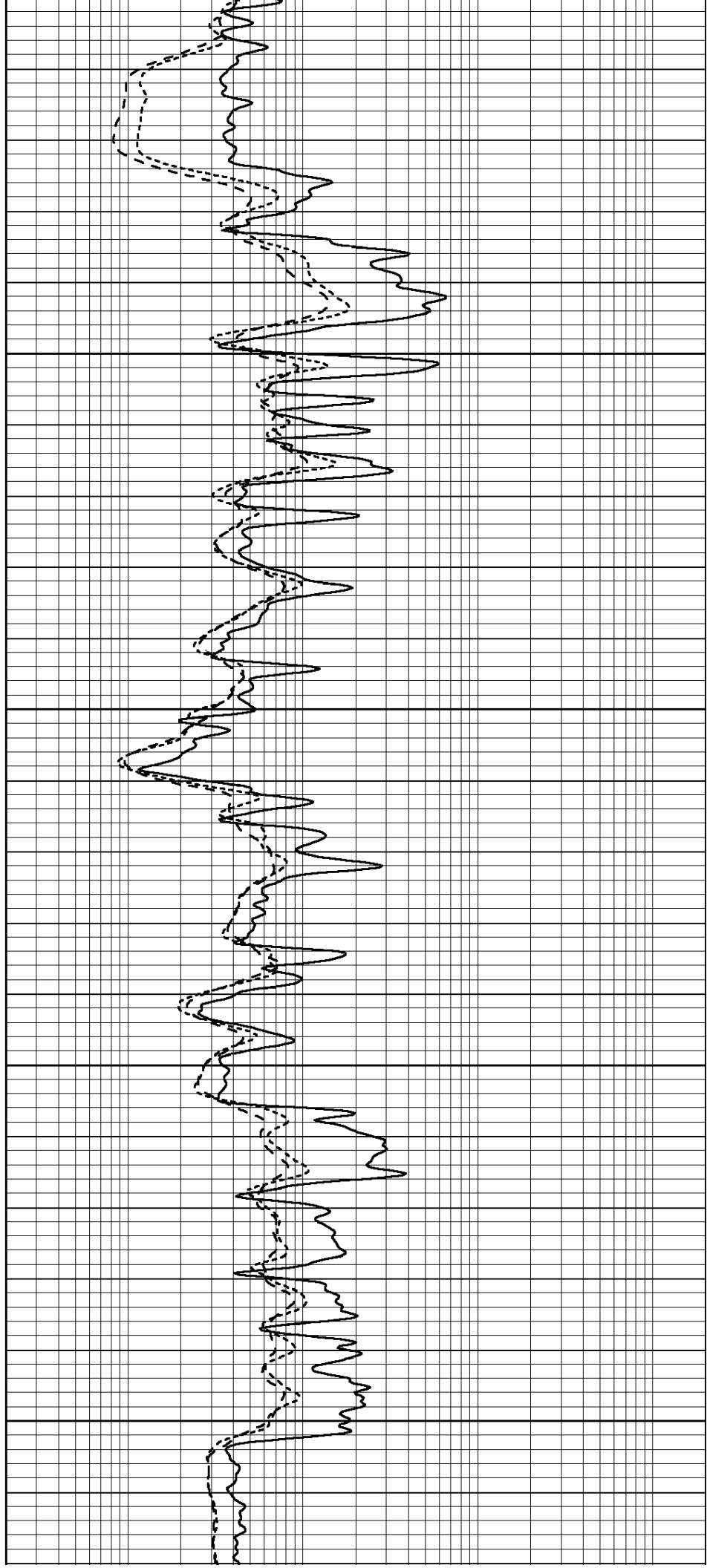
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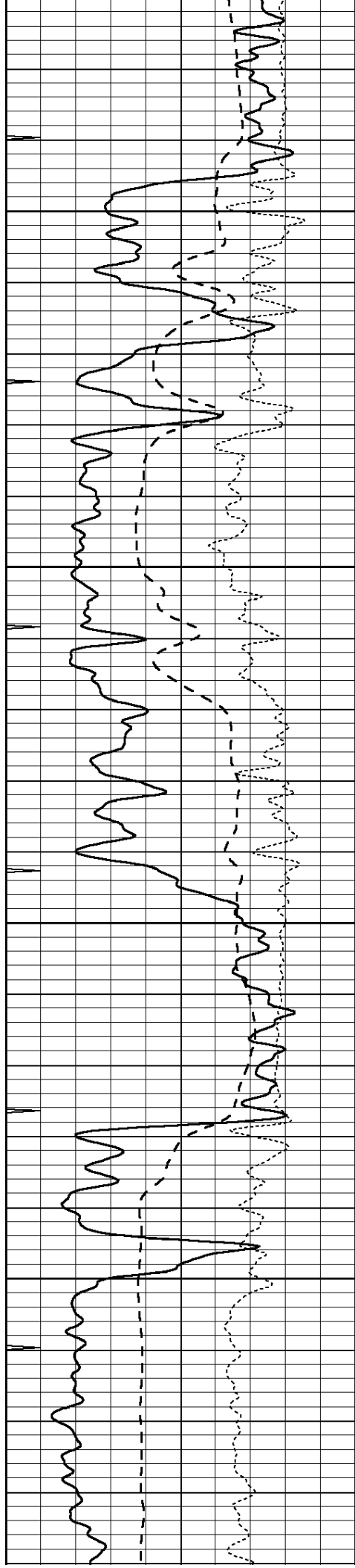
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2750

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2850



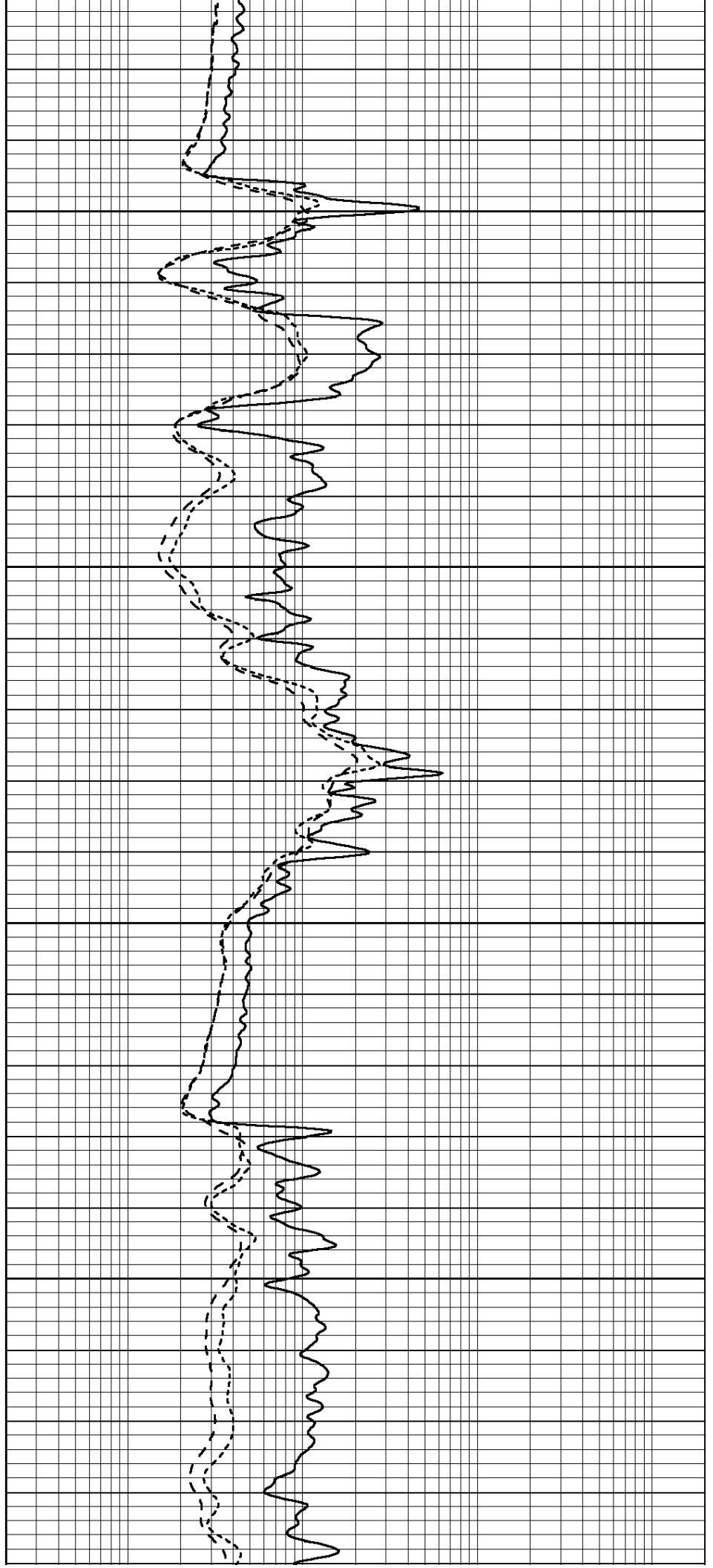


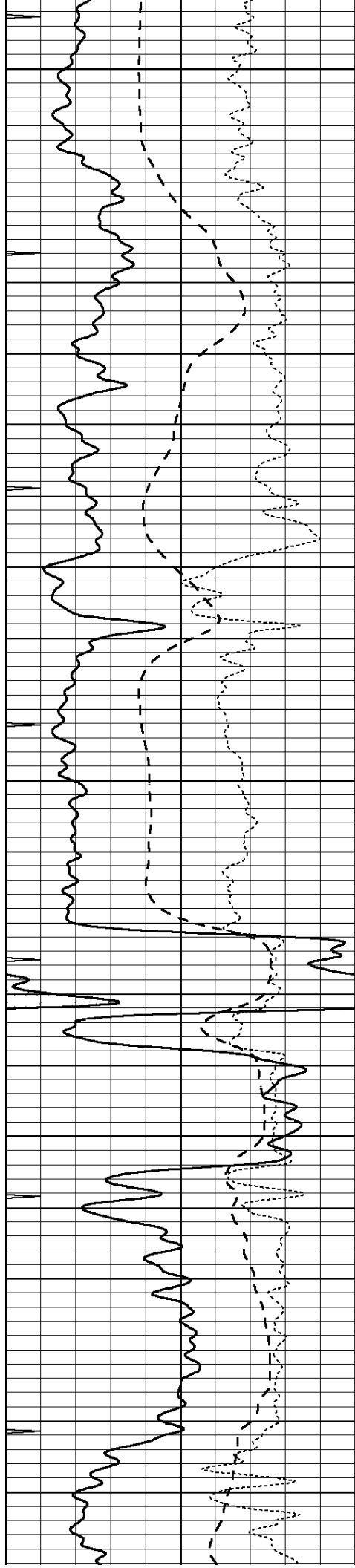
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2950

3000

3050





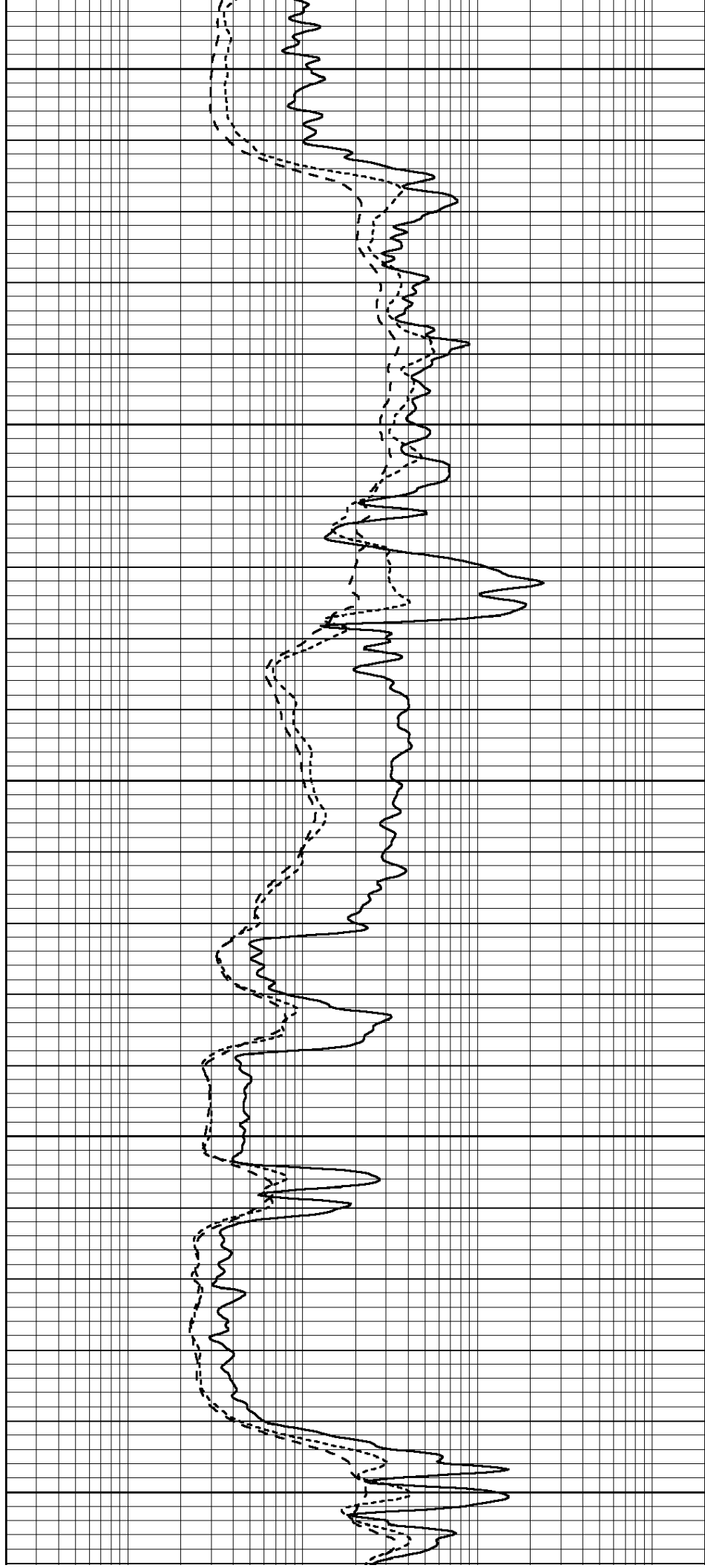
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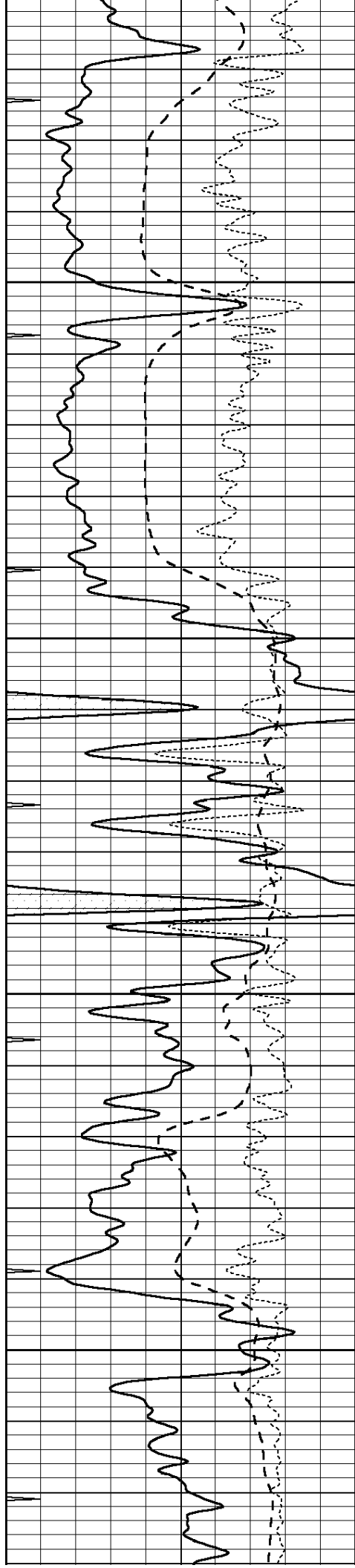
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3200

3250

3300



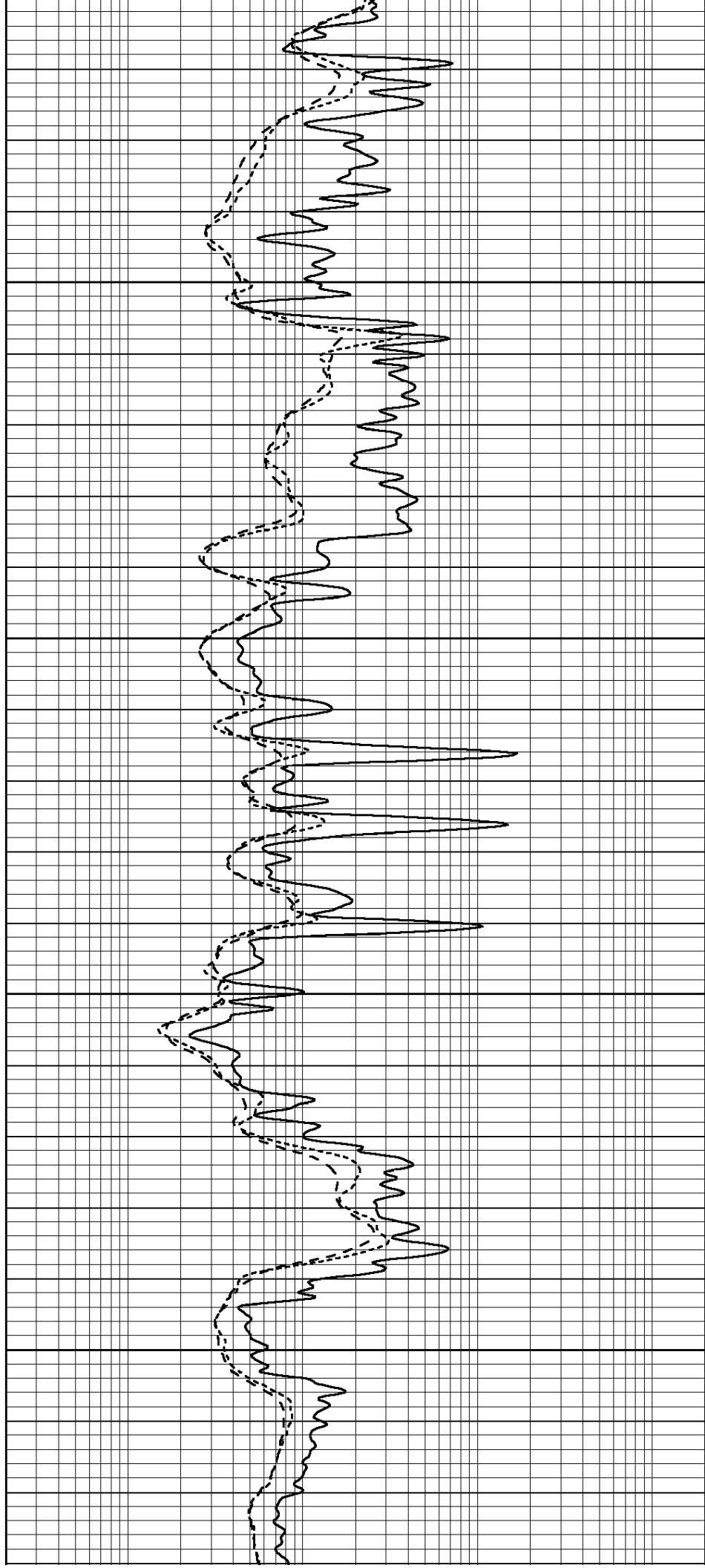


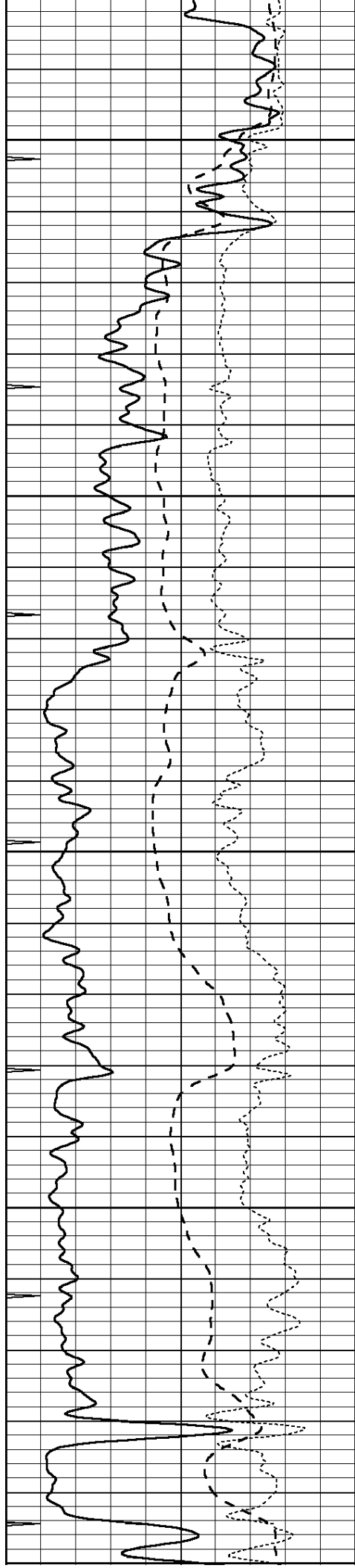
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3500





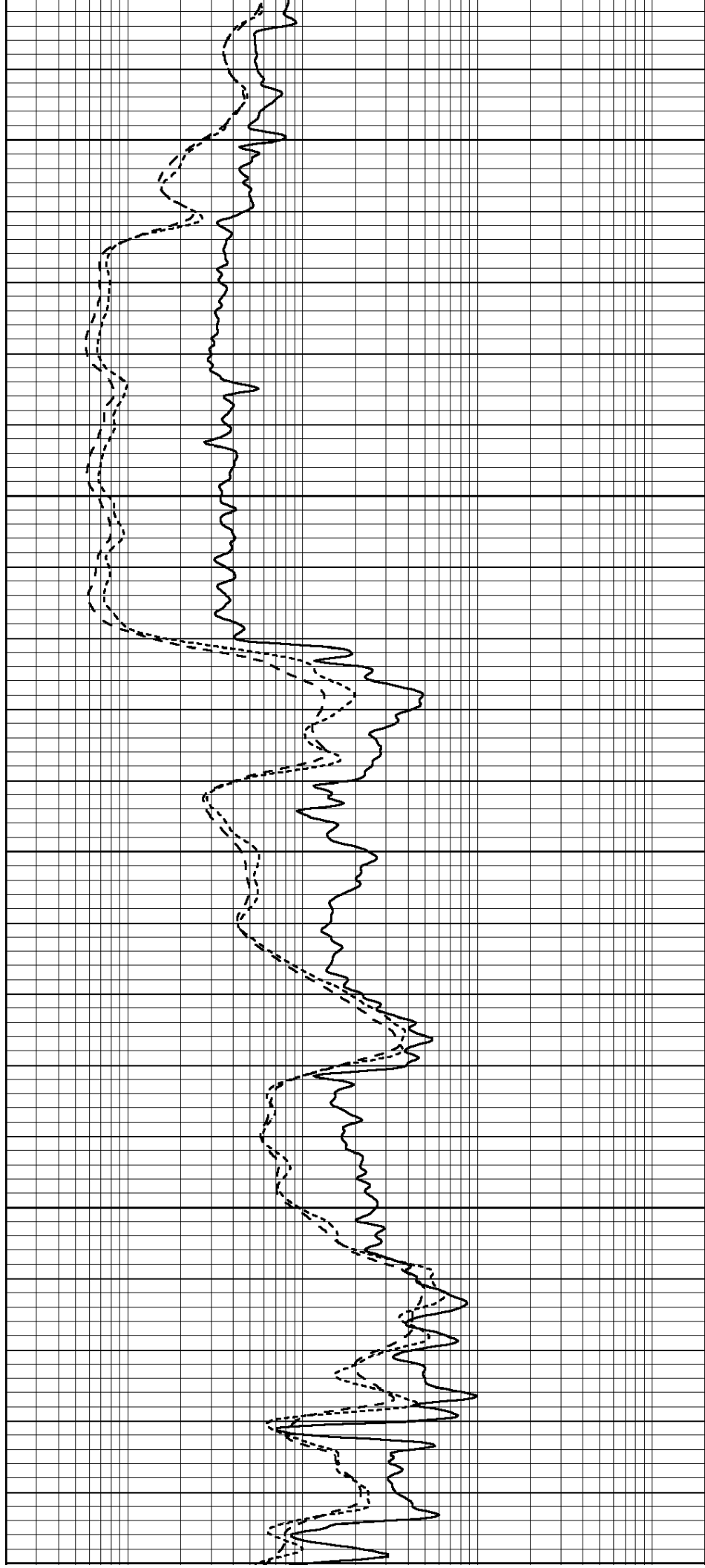
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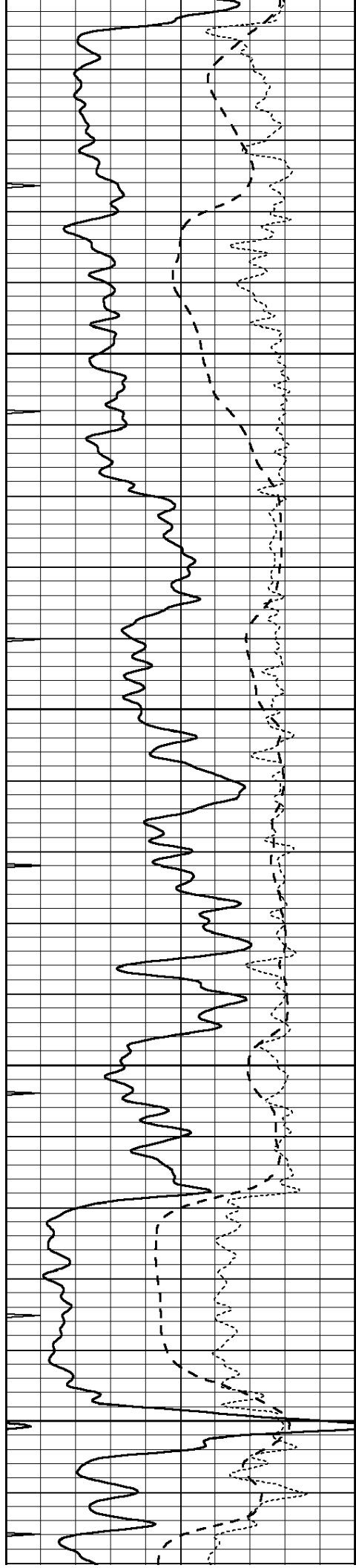
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3650

3700

3750





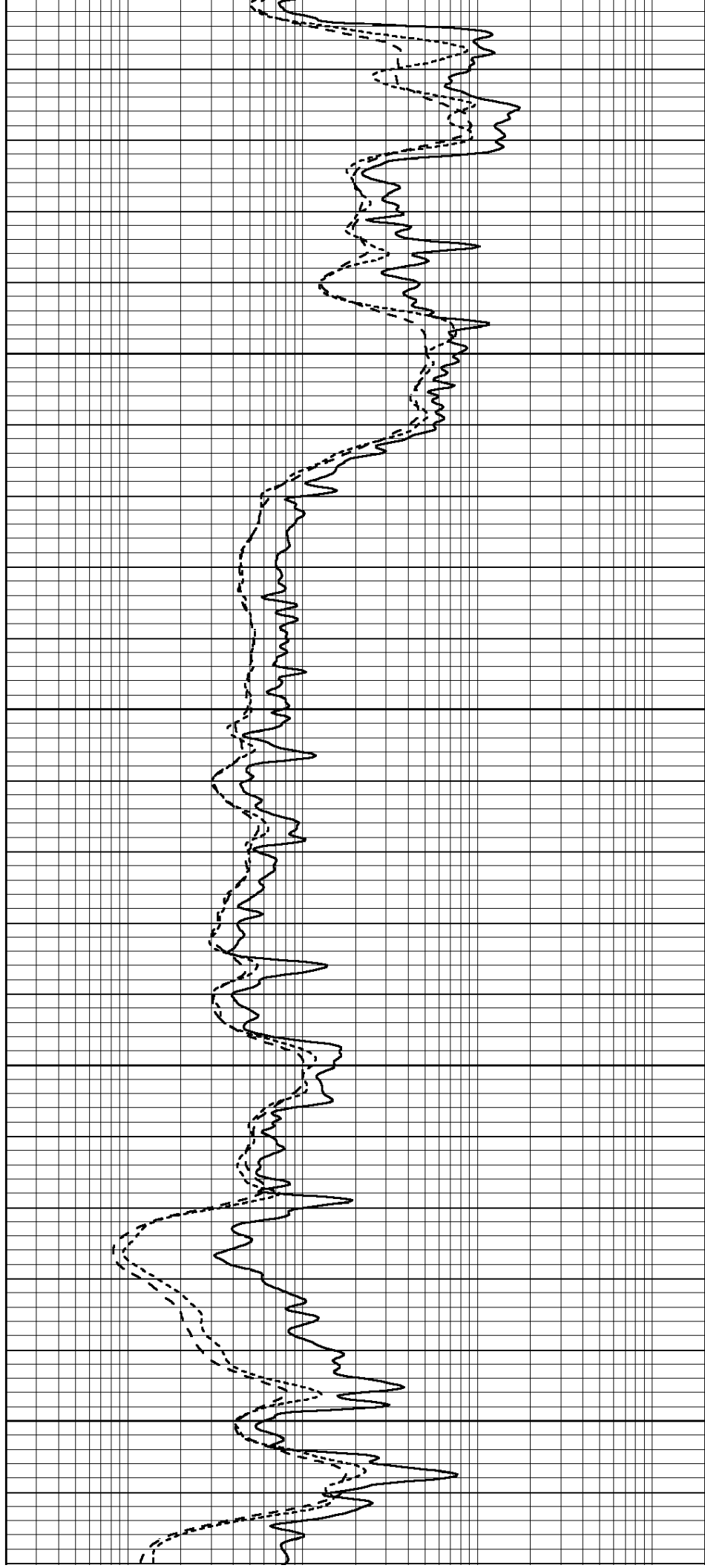
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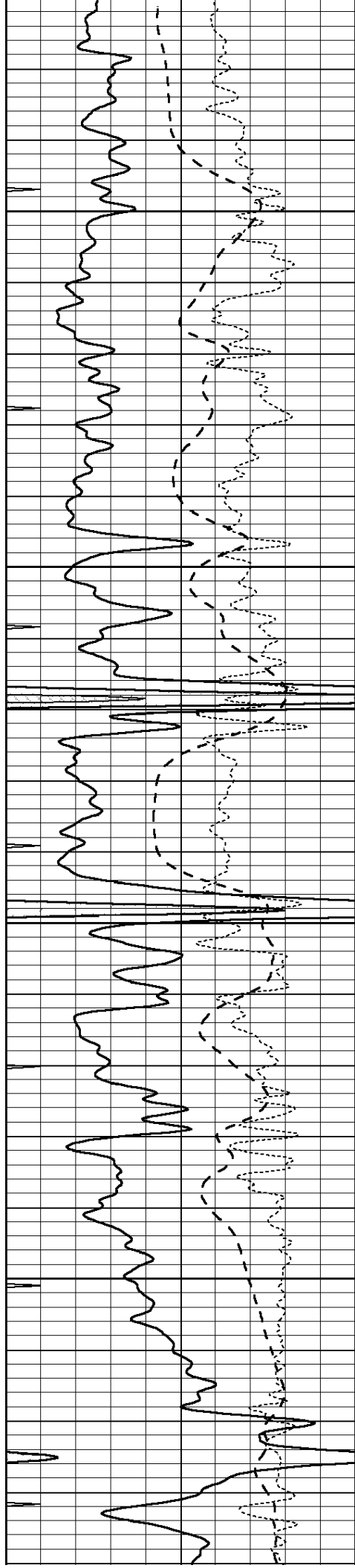
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3900

3950



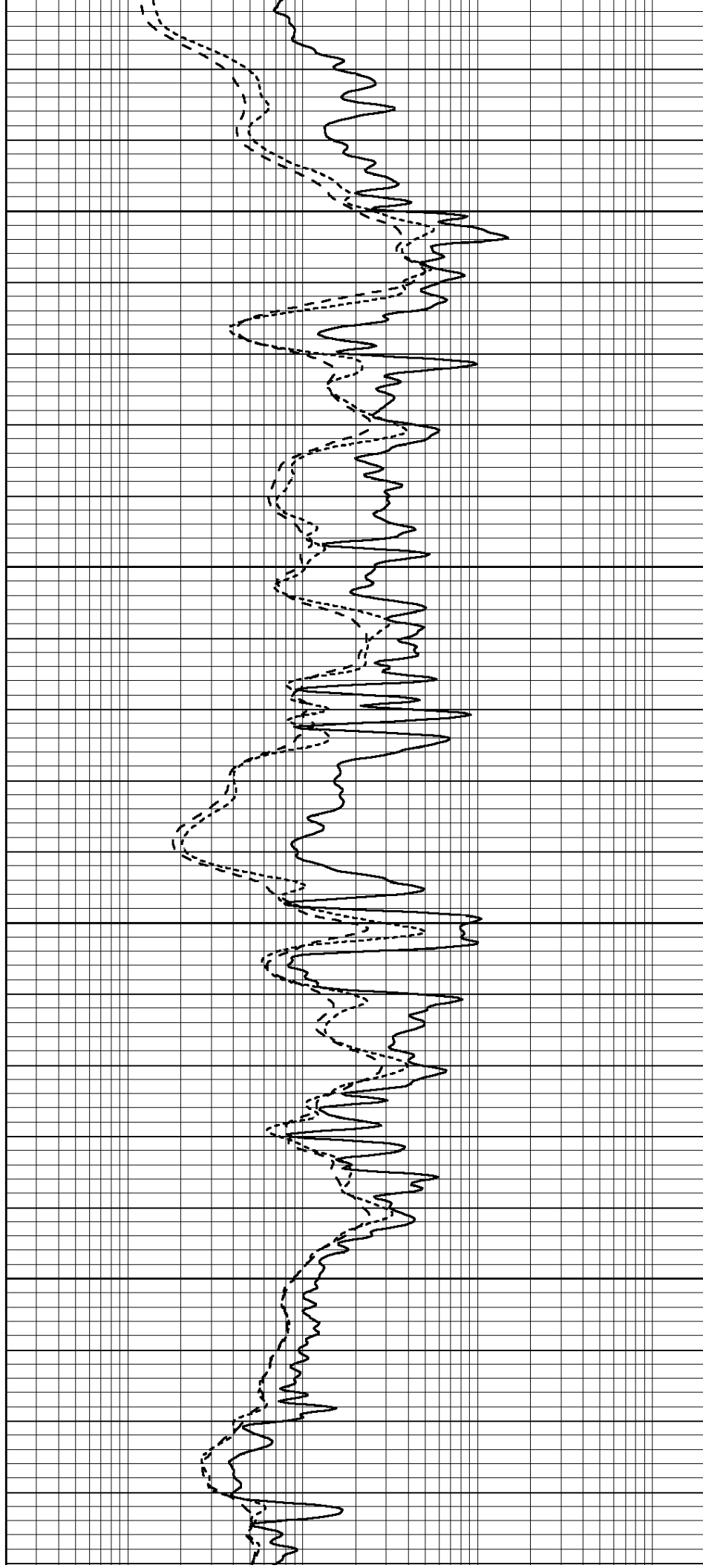


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4050

4100

4150





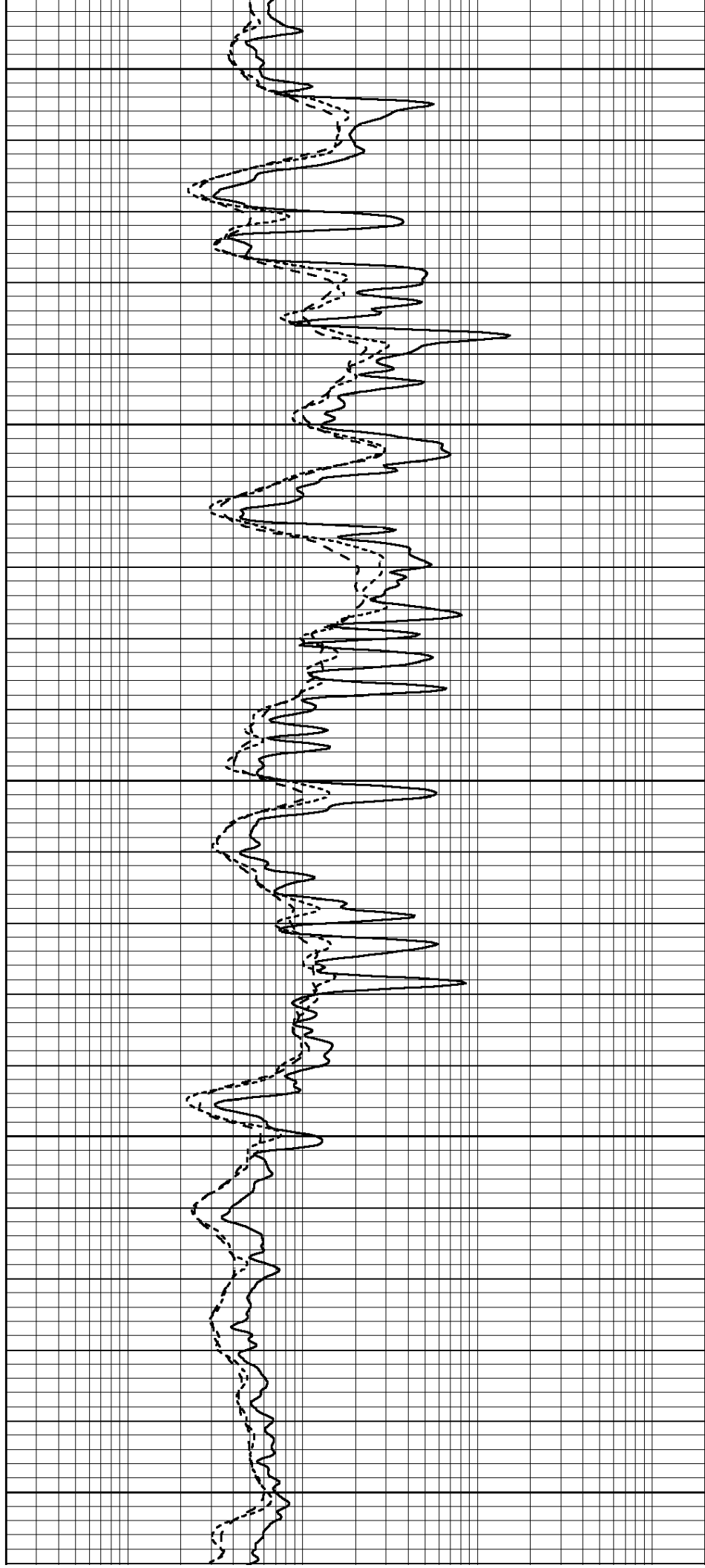
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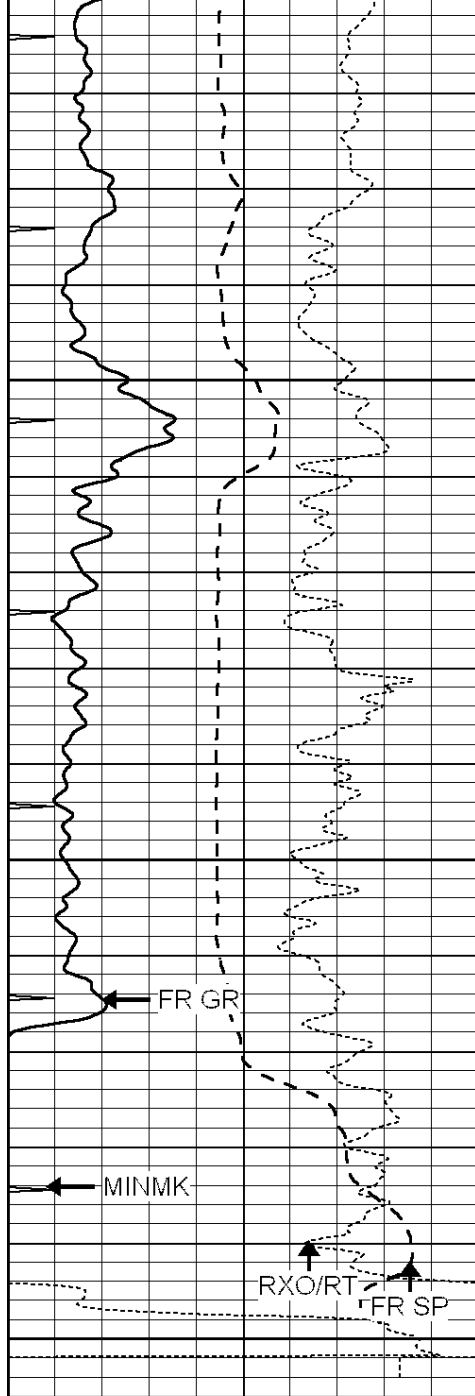
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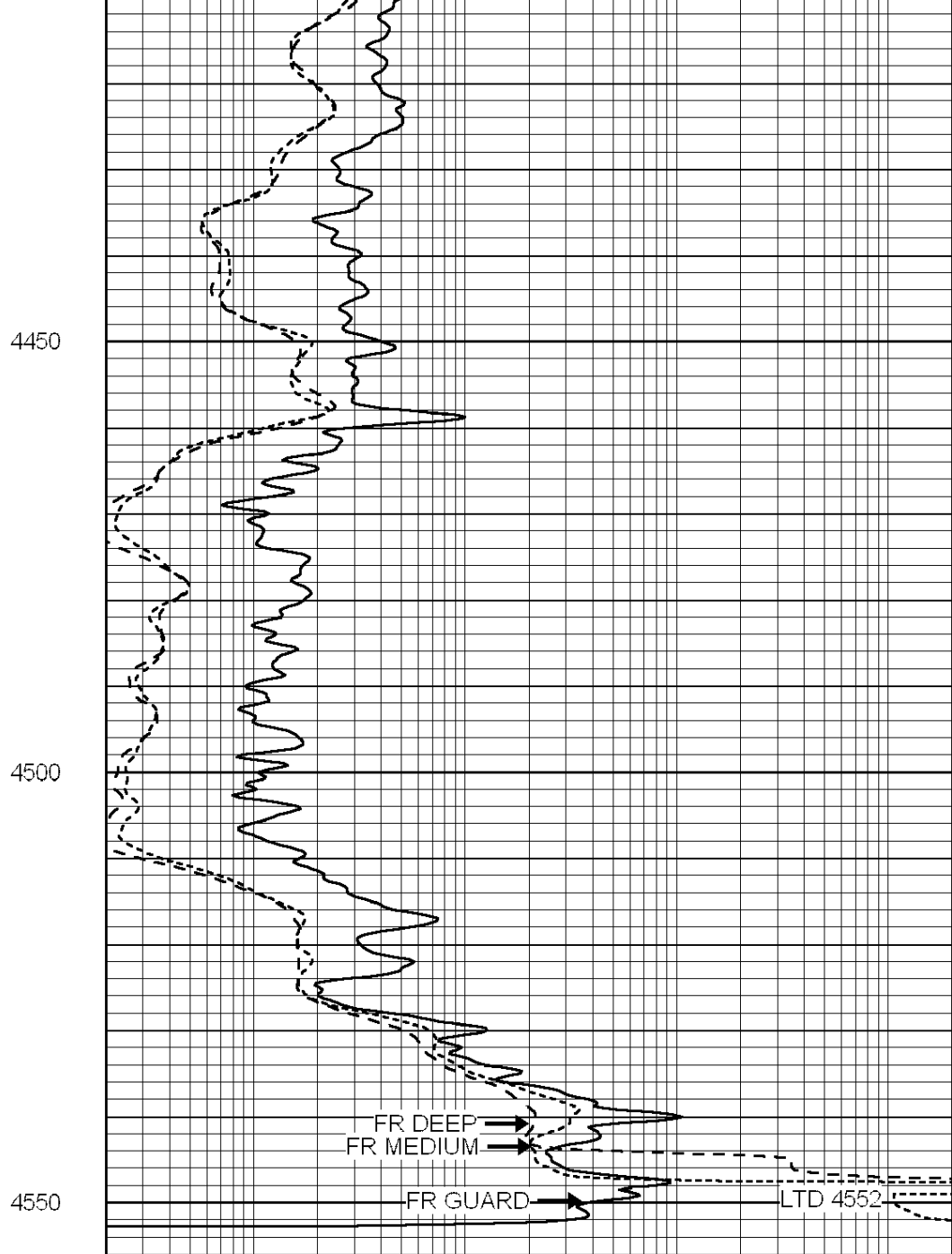
4350

4400





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10



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



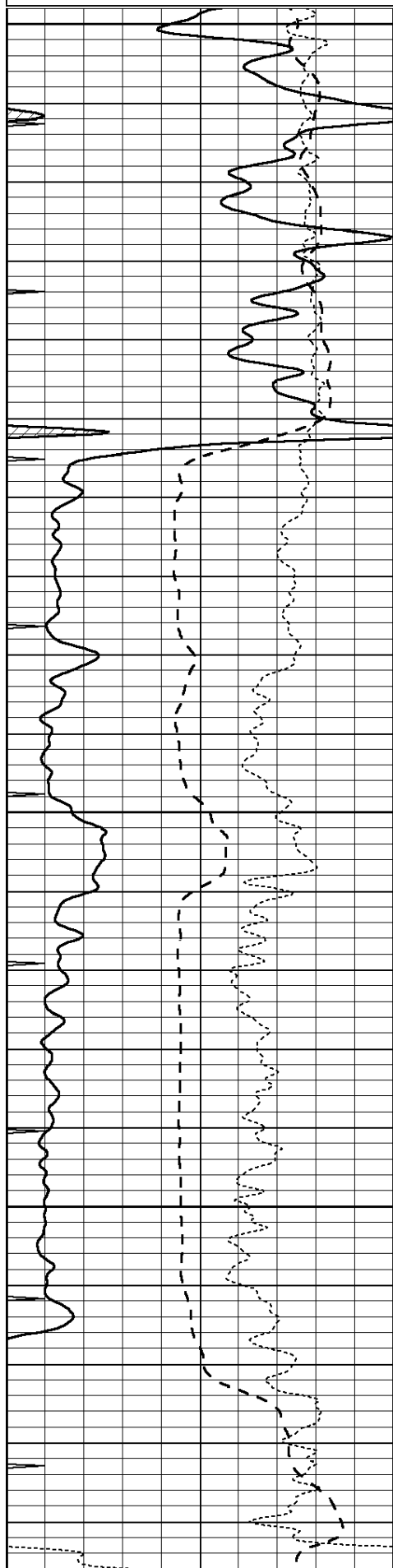
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 006279ddn.db
 Dataset Pathname: pass2.7
 Presentation Format: dil
 Dataset Creation: Mon Jan 31 00:33:57 2011 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
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10



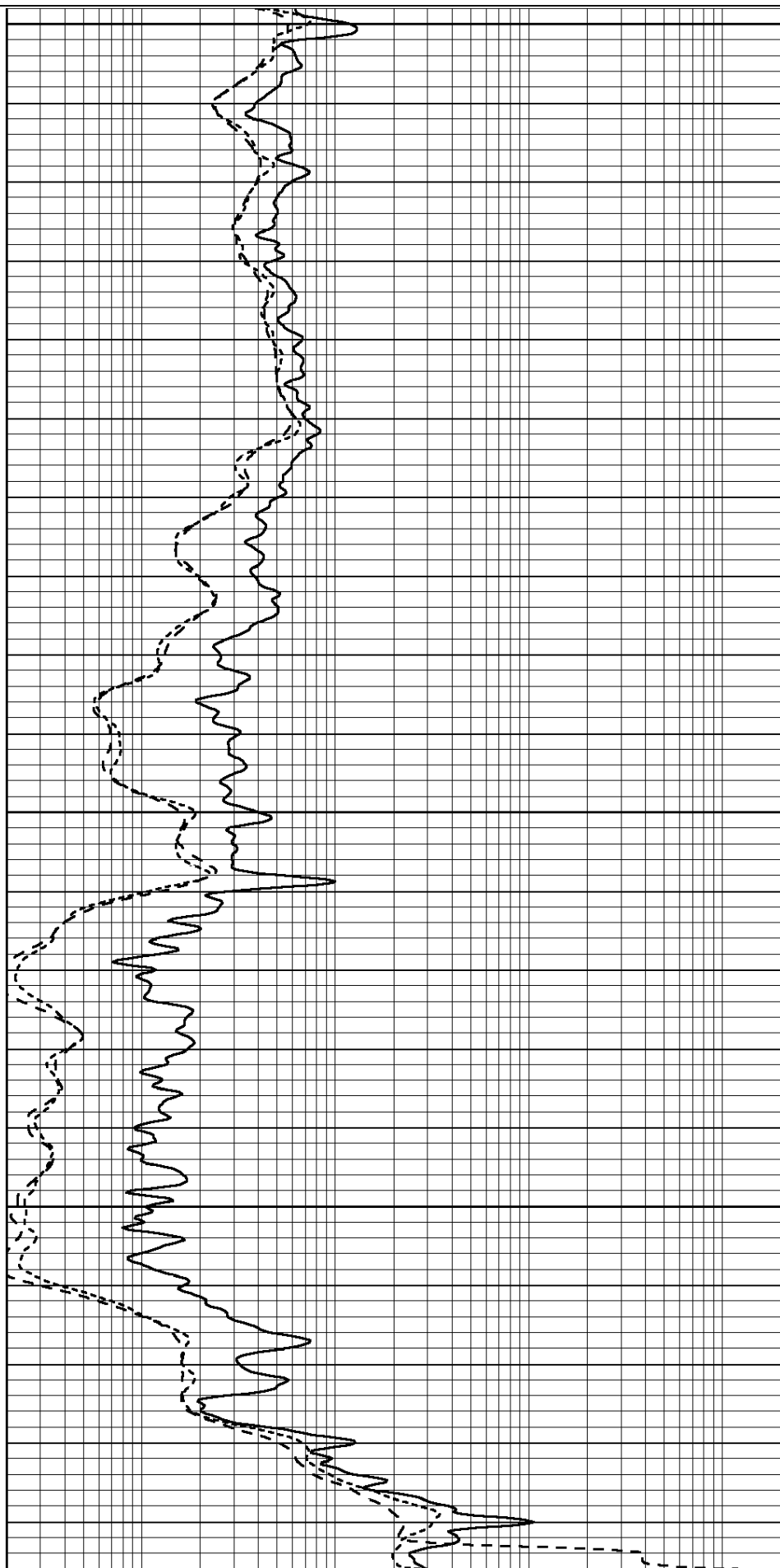
4350

4400

4450

4500

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



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:	GR3				
Tool Model:	OPEN				
Performed:	Sun Jan 30 21:58:55 2011				
Calibrator Value:	200.0	GAPI			
Background Reading:	3.0	cps			
Calibrator Reading:	186.0	cps			
Sensitivity:	0.5000	GAPI/cps			