



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company	AMERICAN ENERGIES CORPORATION		
Well	SCHWARTZ / STUART #1-21		
Field			
County	KINGMAN	State	KANSAS
Location:	API # : 15-095-22252		Other Services CDL/CNL MICRO
SEC 21 TWP 27S RGE 7W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1578
Log Measured From	KELLY BUSHING 9' A.G.L.	K.B.	1587
Drilling Measured From	KELLY BUSHING	D.F.	
		G.L.	1578
Date	5-10-12		
Run Number	ONE		
Depth Driller	4243		
Depth Logger	4240		
Bottom Logged Interval	4238		
Top Log Interval	00		
Casing Driller	309		
Casing Logger	308		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 50		
pH / Fluid Loss	10.0 / 10.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.95 @ 76F		
Rmf @ Meas. Temp	0.71 @ 76F		
Rmc @ Meas. Temp	1.14 @ 76F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.620 @ 117F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	3:15 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	DAVE GOLDAK		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: KINGMAN & WHITES FOOD STORE, 2N, 1/2E, N INTO.

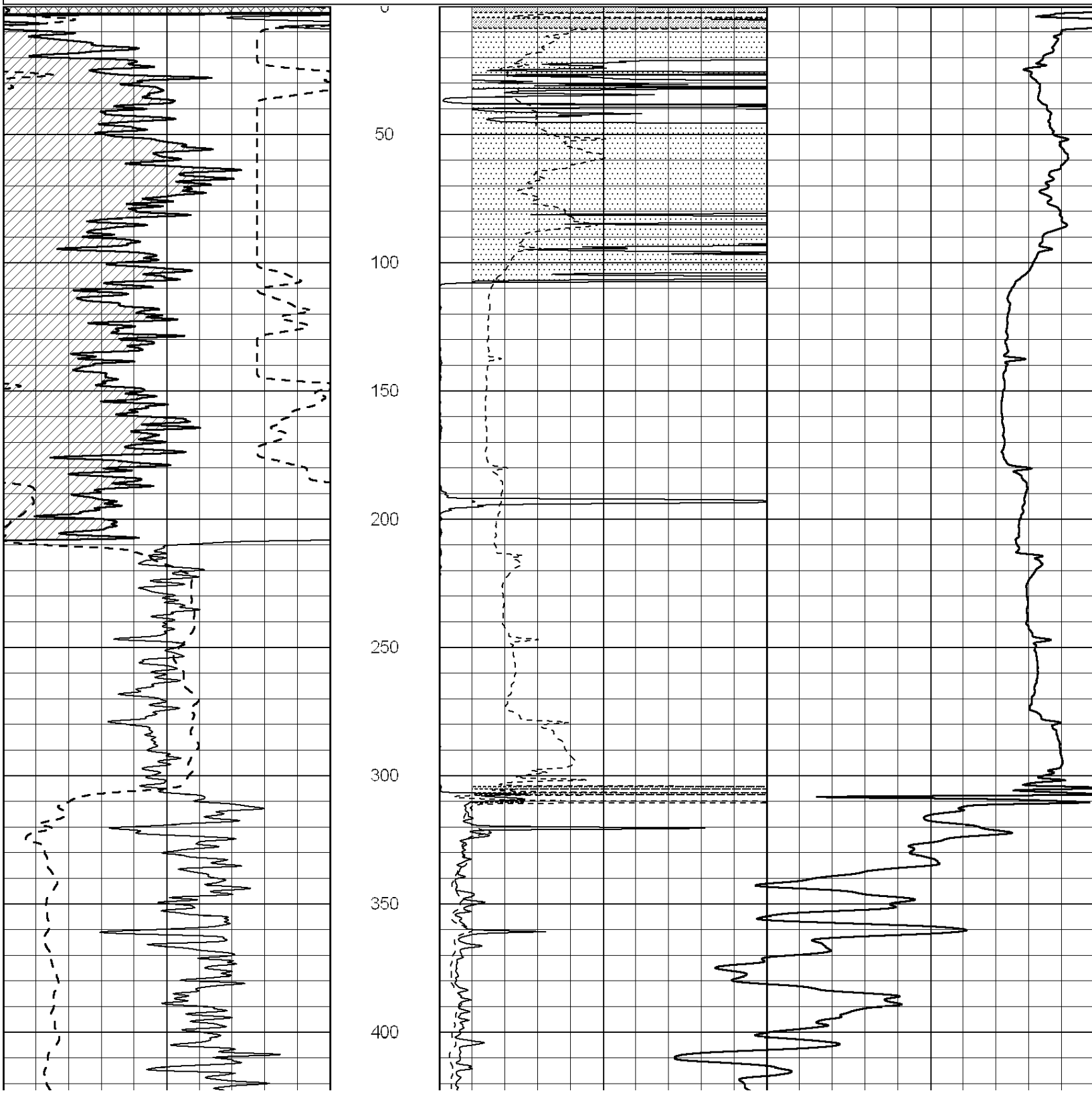


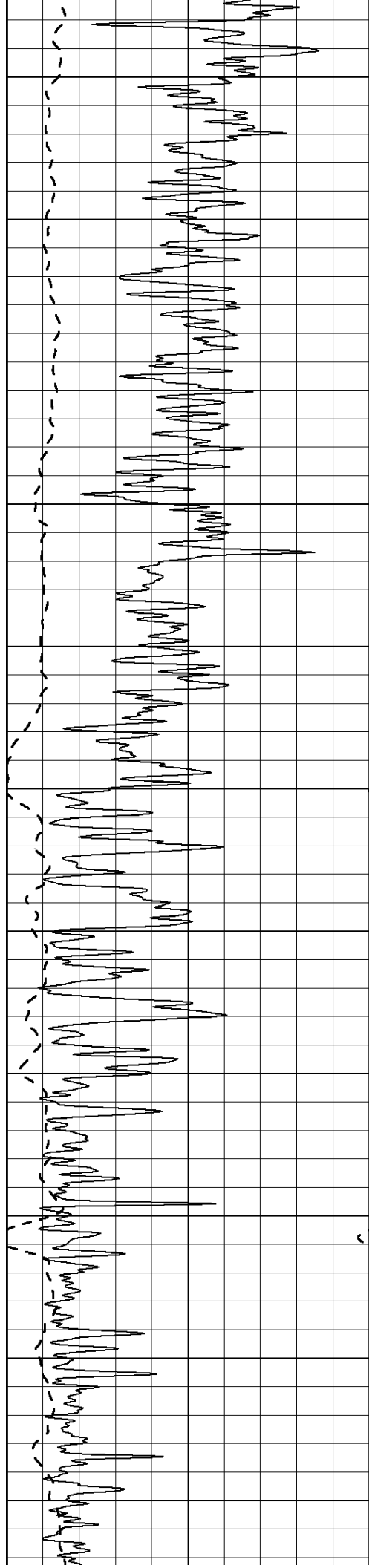
**SUPERIOR
Hays,
Kansas**

MAIN SECTION

Database File: 009114ddn.db
 Dataset Pathname: pass3.2A
 Presentation Format: dil2
 Dataset Creation: Thu May 10 07:42:35 2012
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50
			0	Deep Induction (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

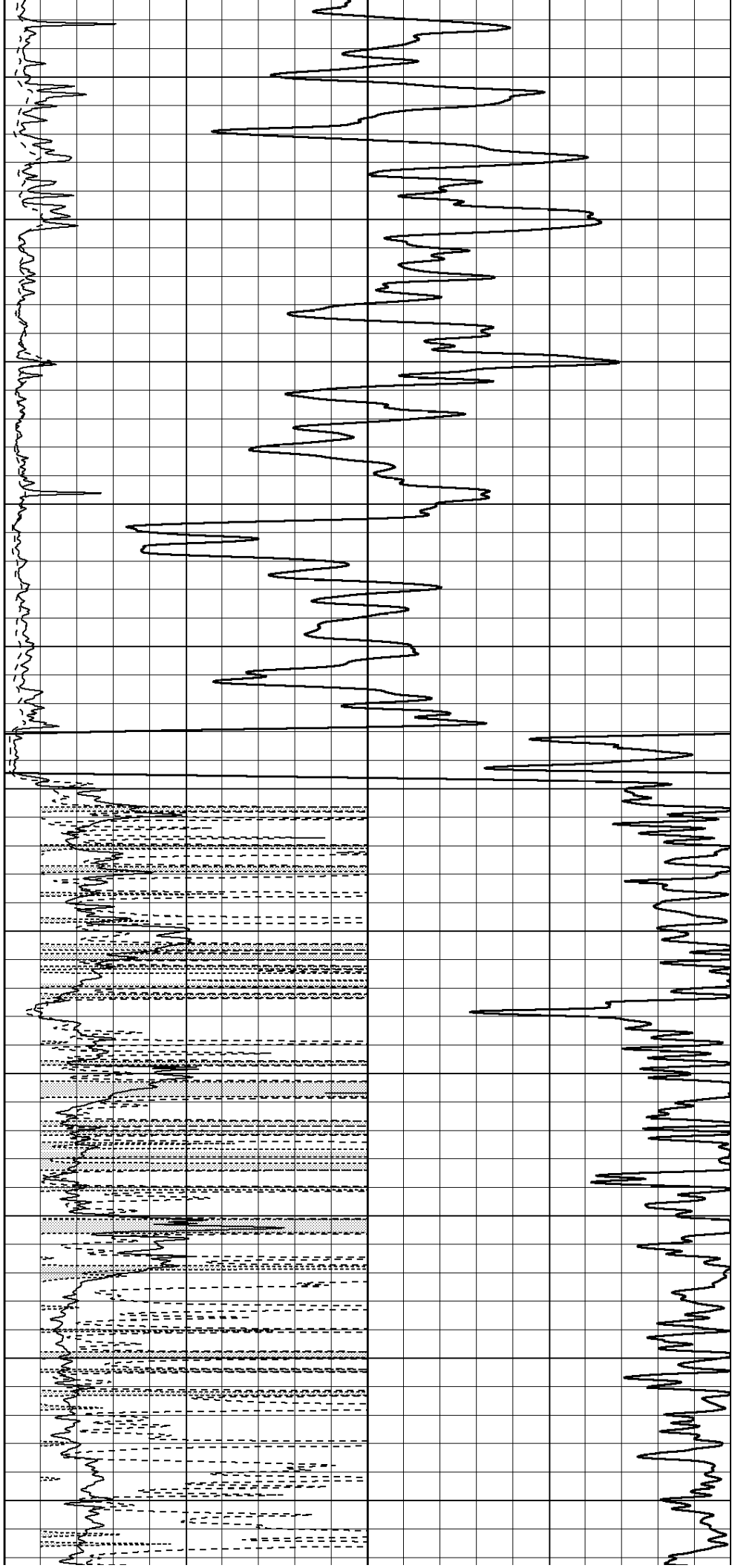
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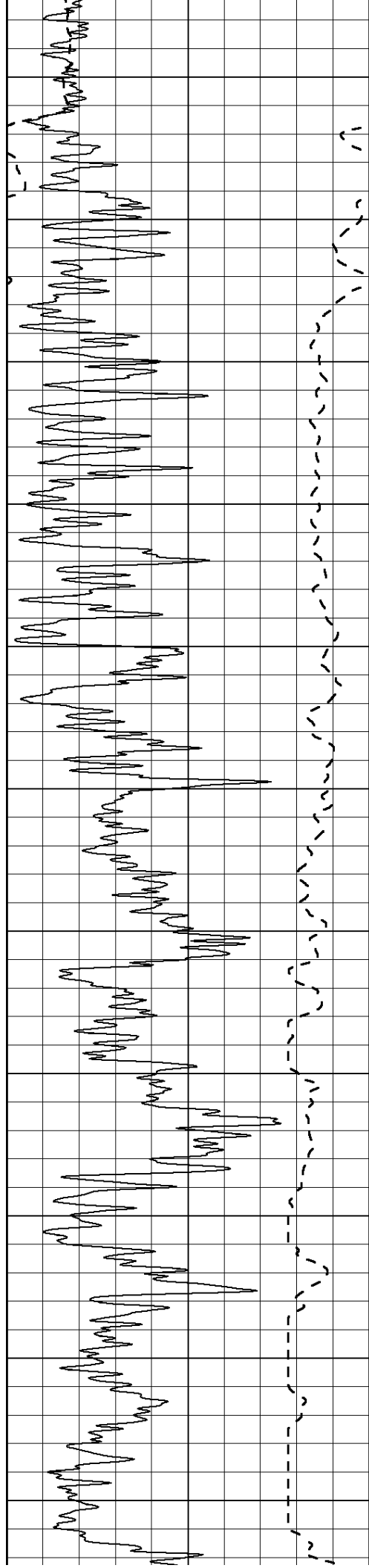
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850

900

950





1000

1050

1100

1150

1200

1250

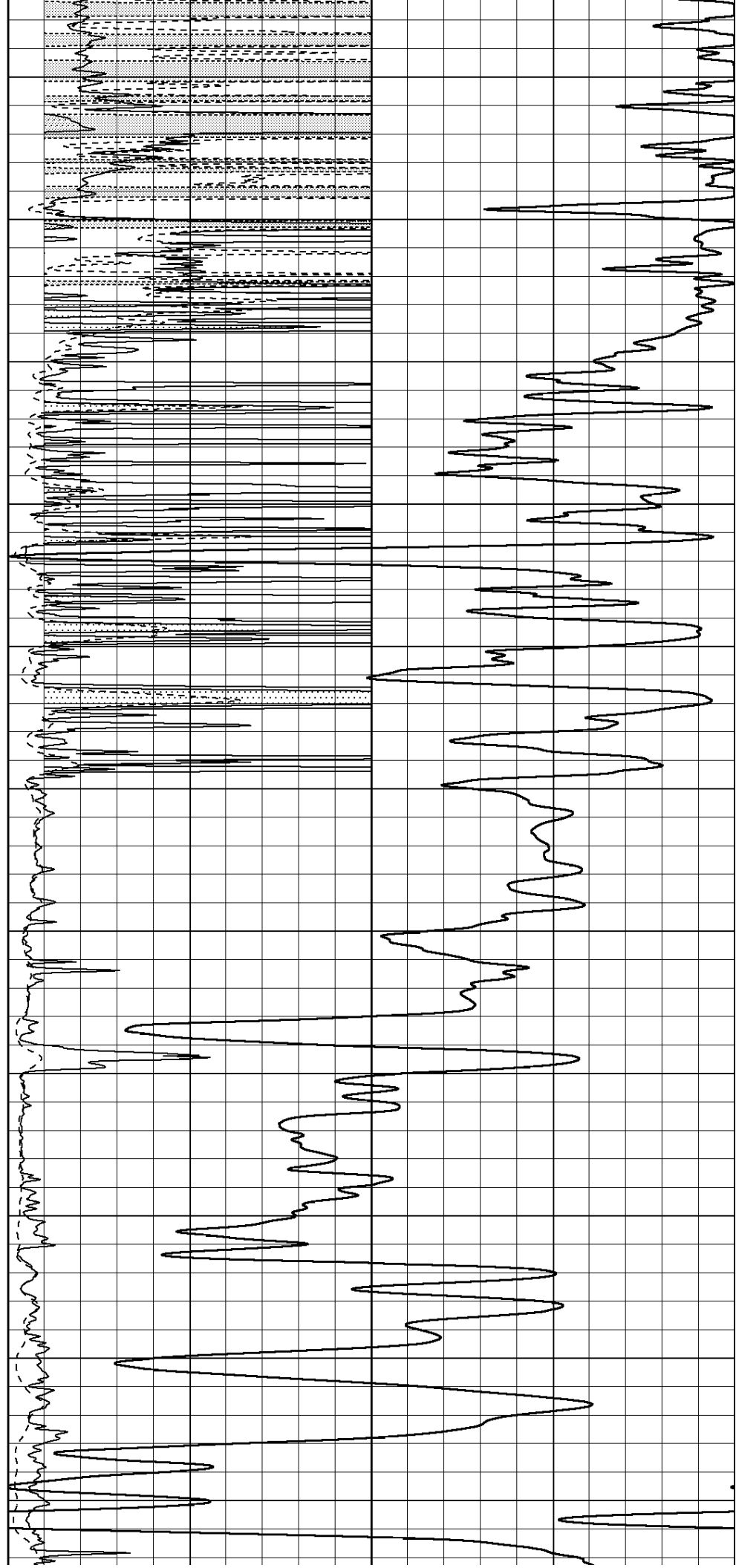
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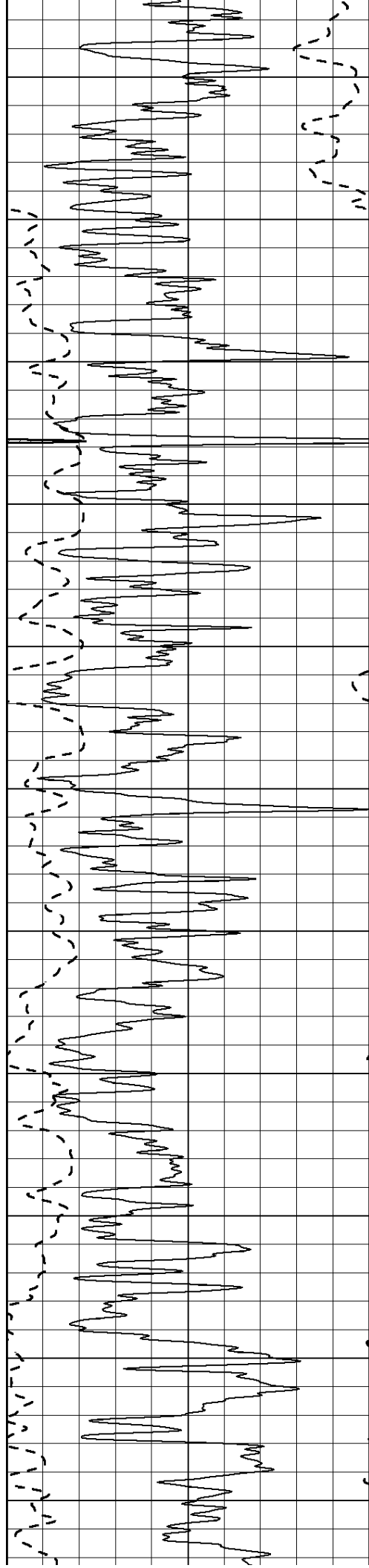
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1500





1550

1600

1650

1700

1750

1800

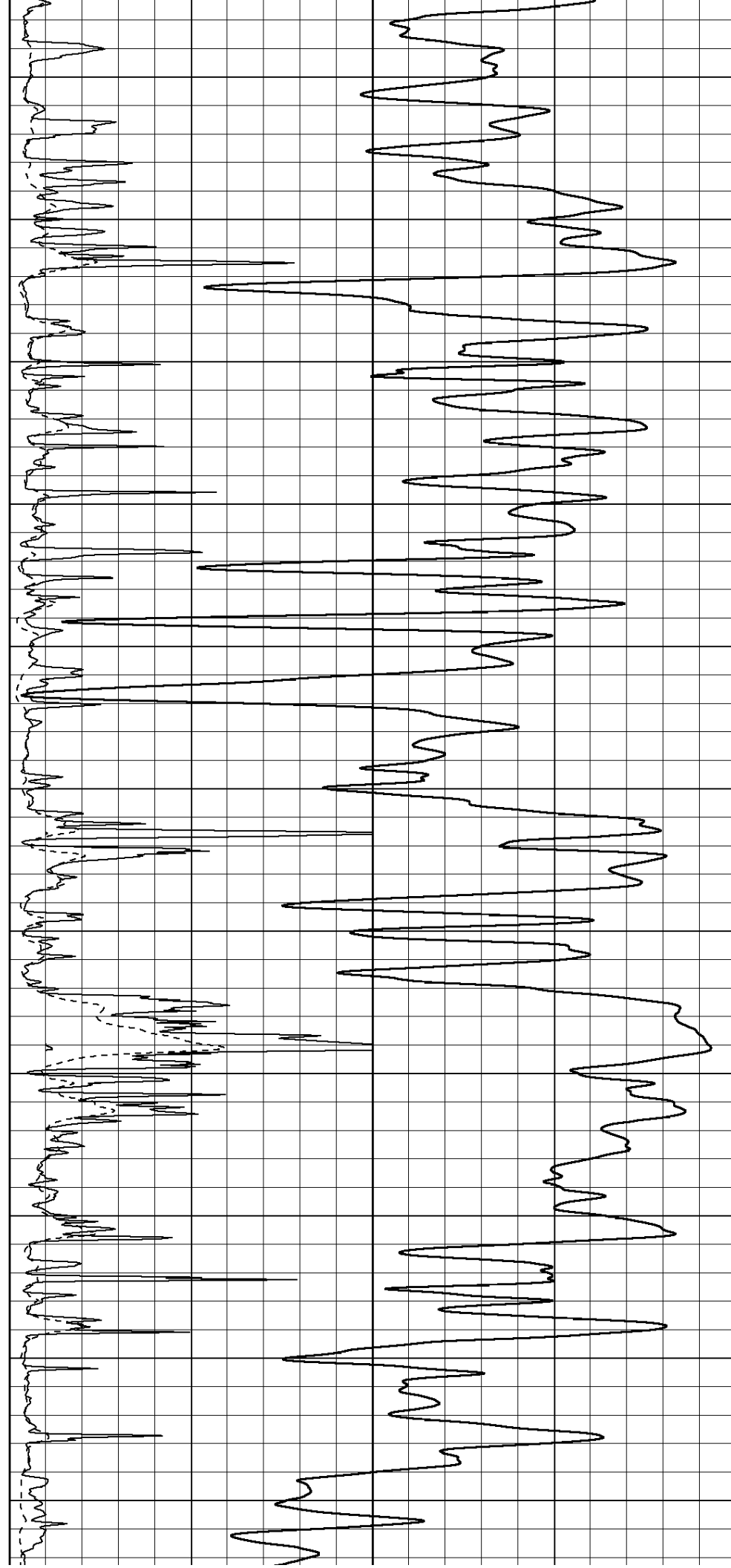
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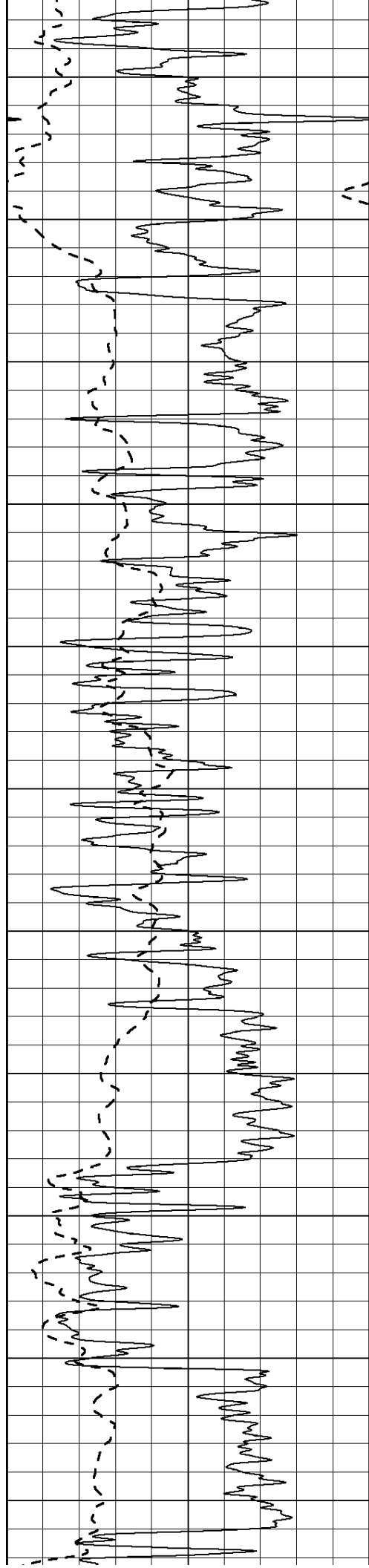
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1950

2000

2050





2100

2150

2200

2250

2300

2350

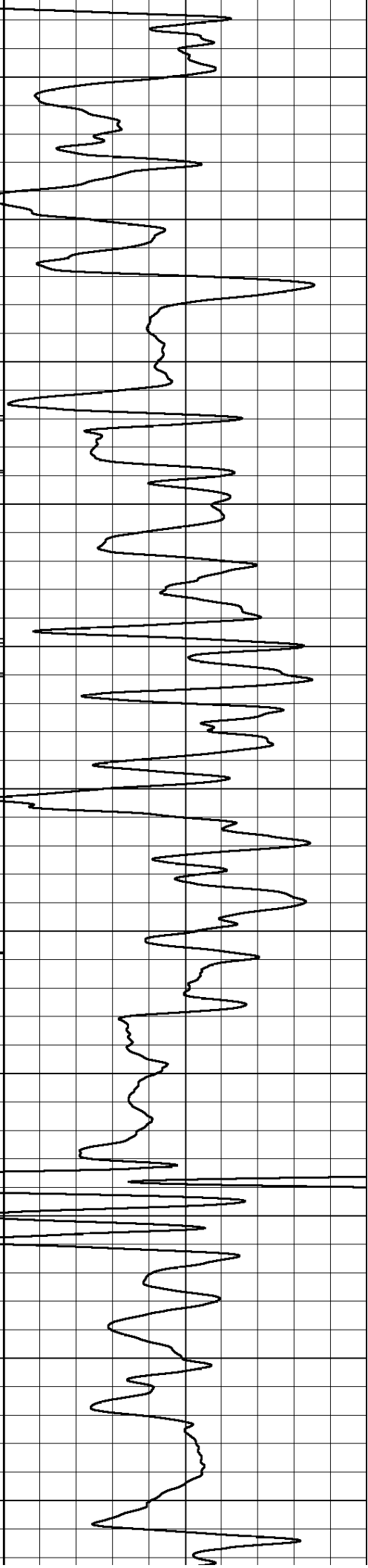
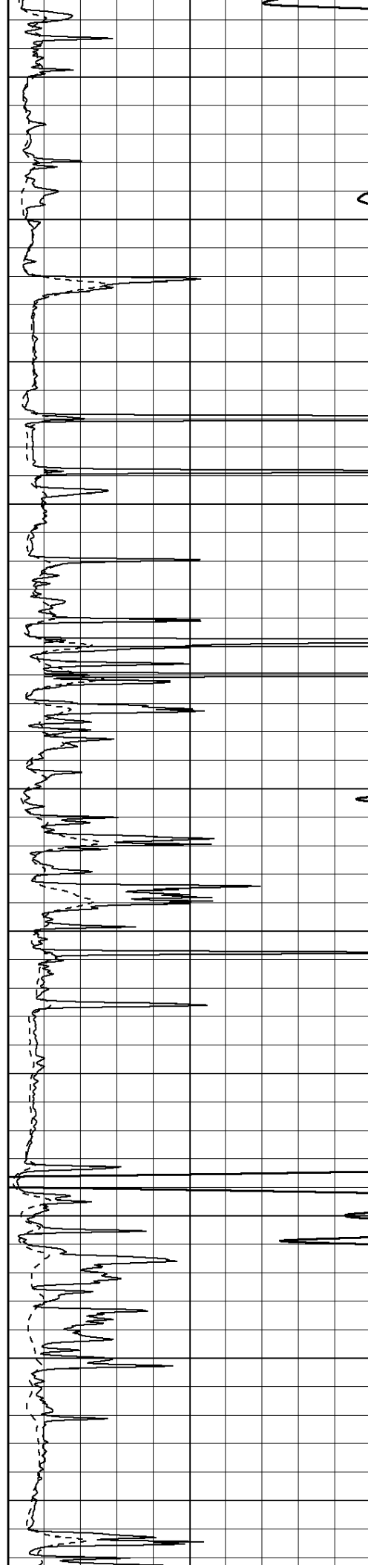
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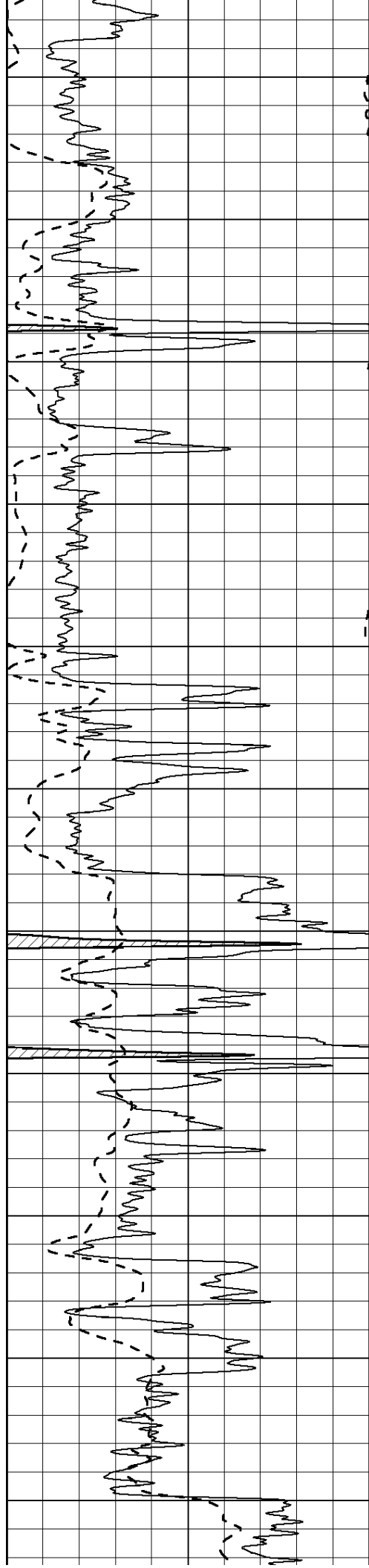
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2500

2550

2600





2650

2700

2750

2800

2850

2900

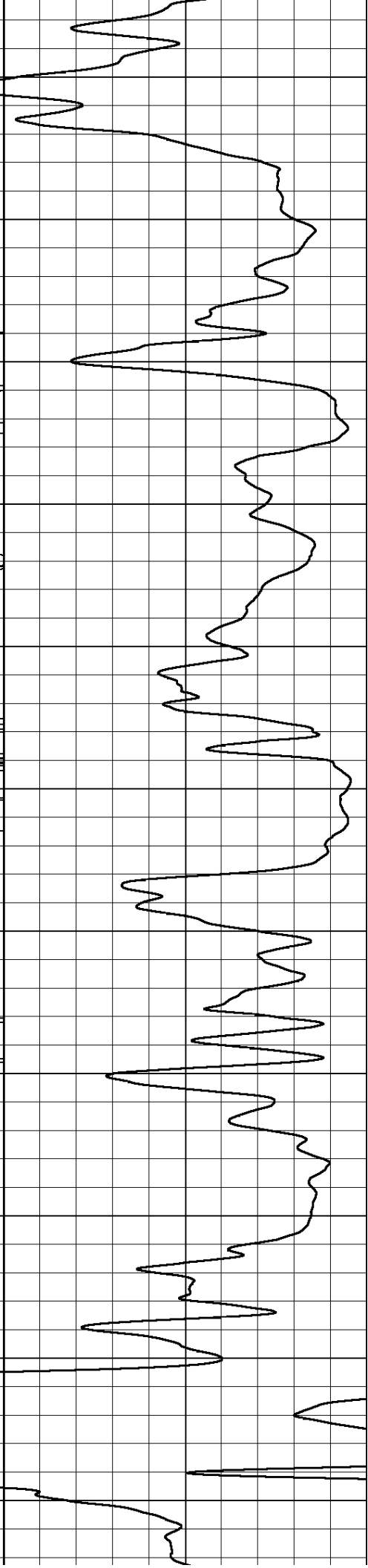
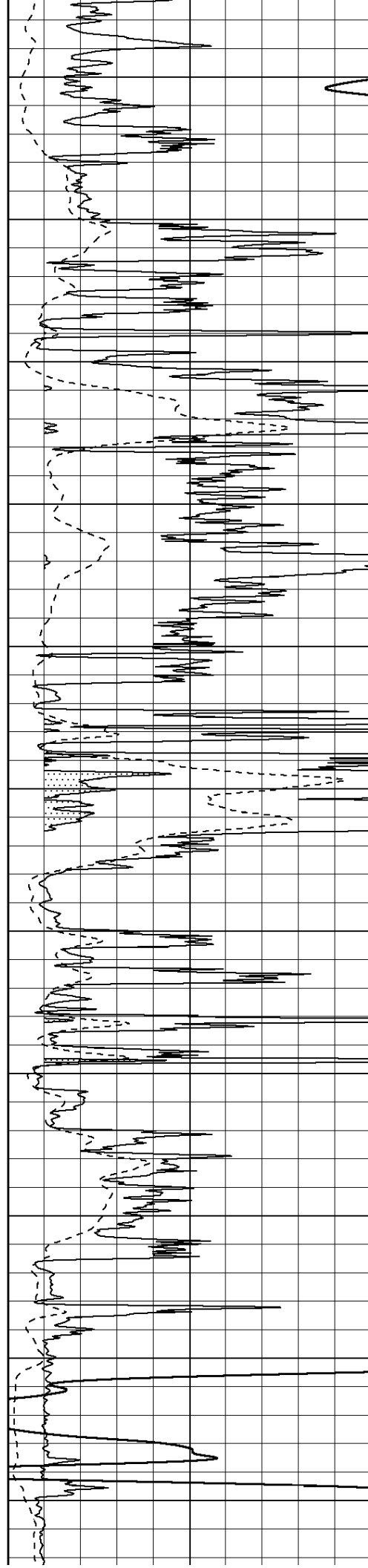
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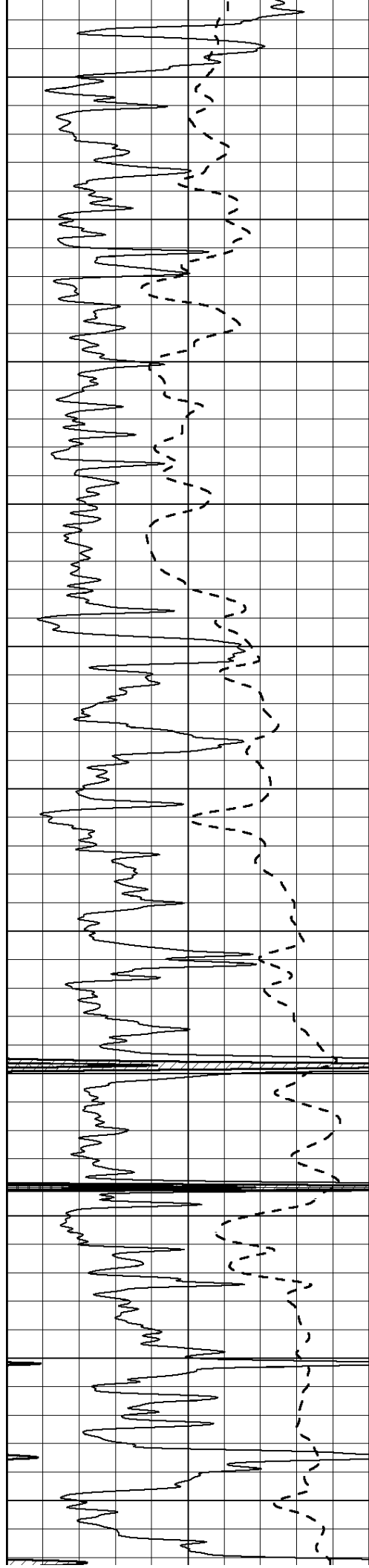
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3050

3100

3150





3200

3250

3300

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3400

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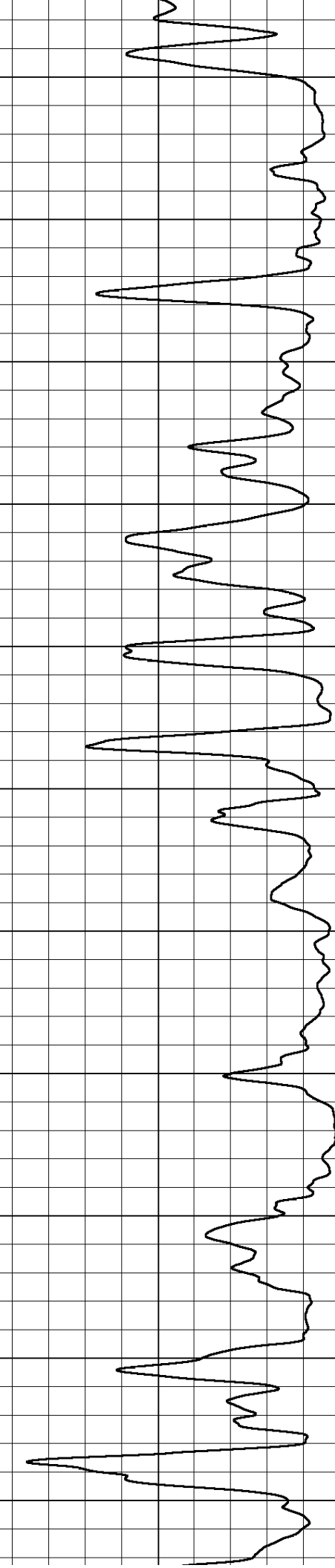
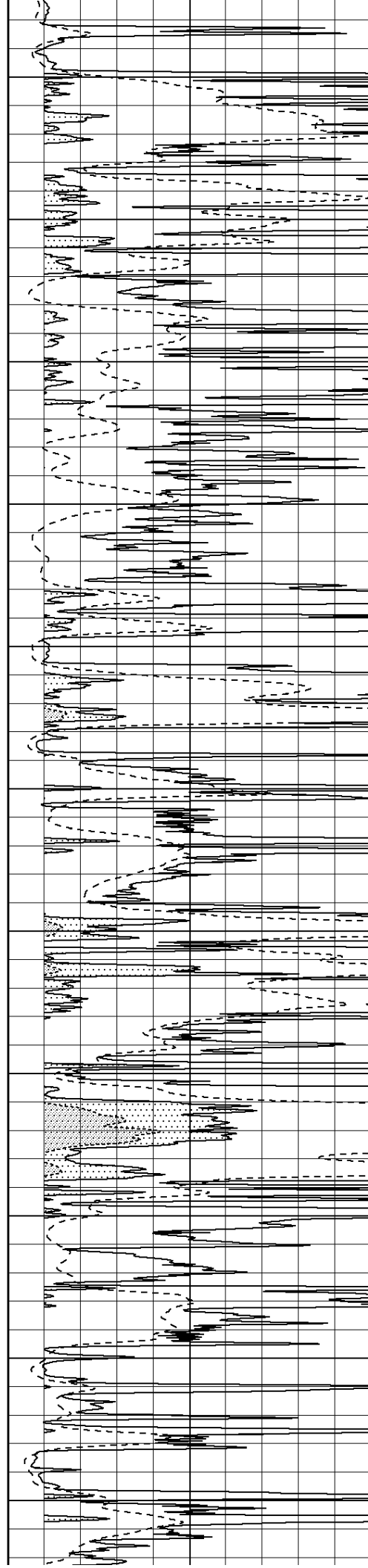
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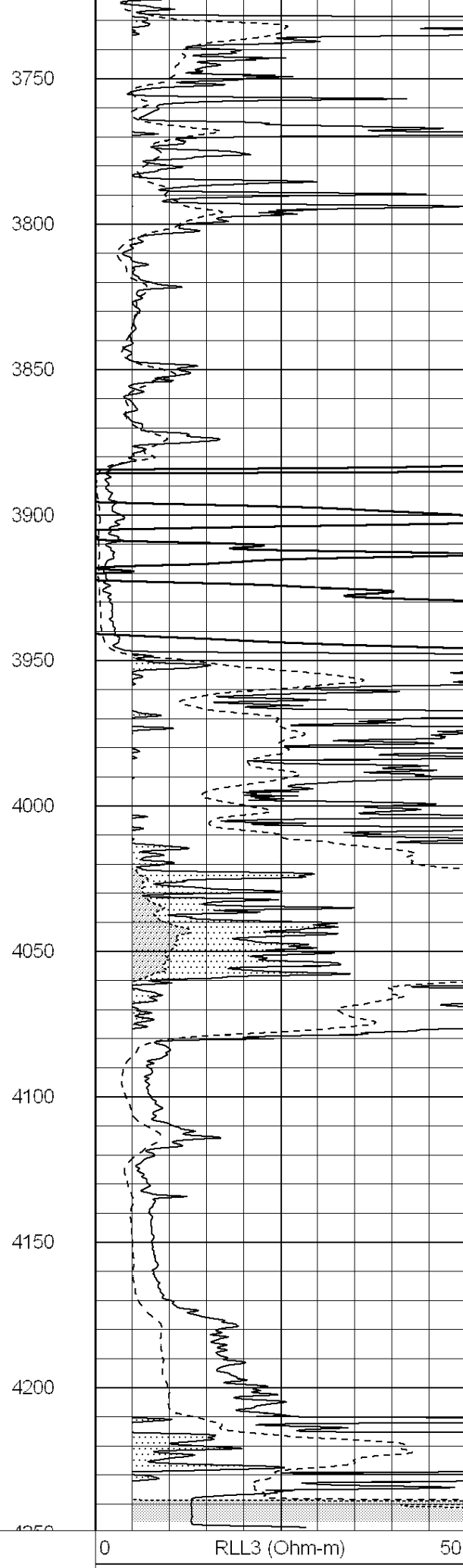
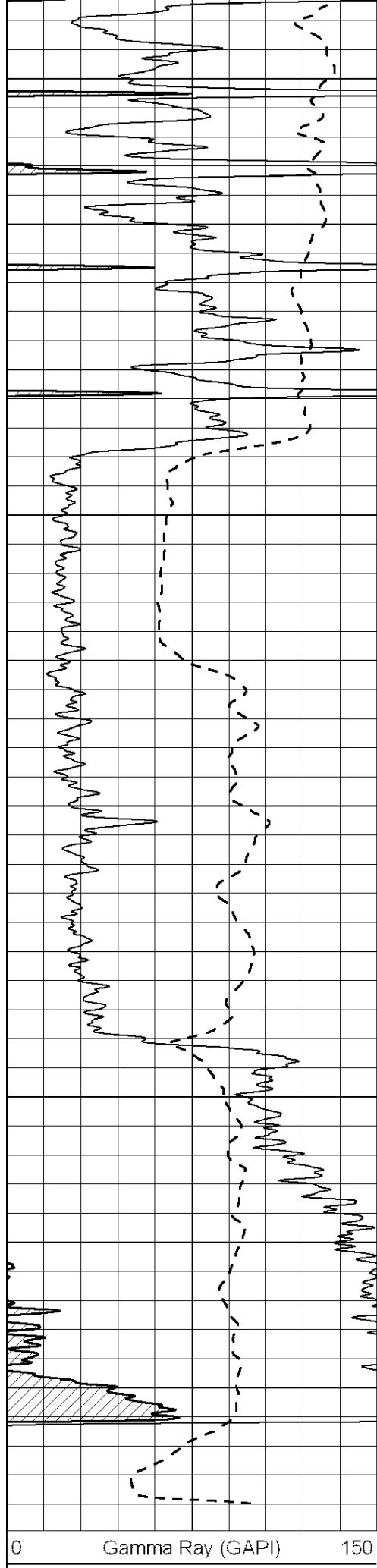
3550

3600

3650

3700





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



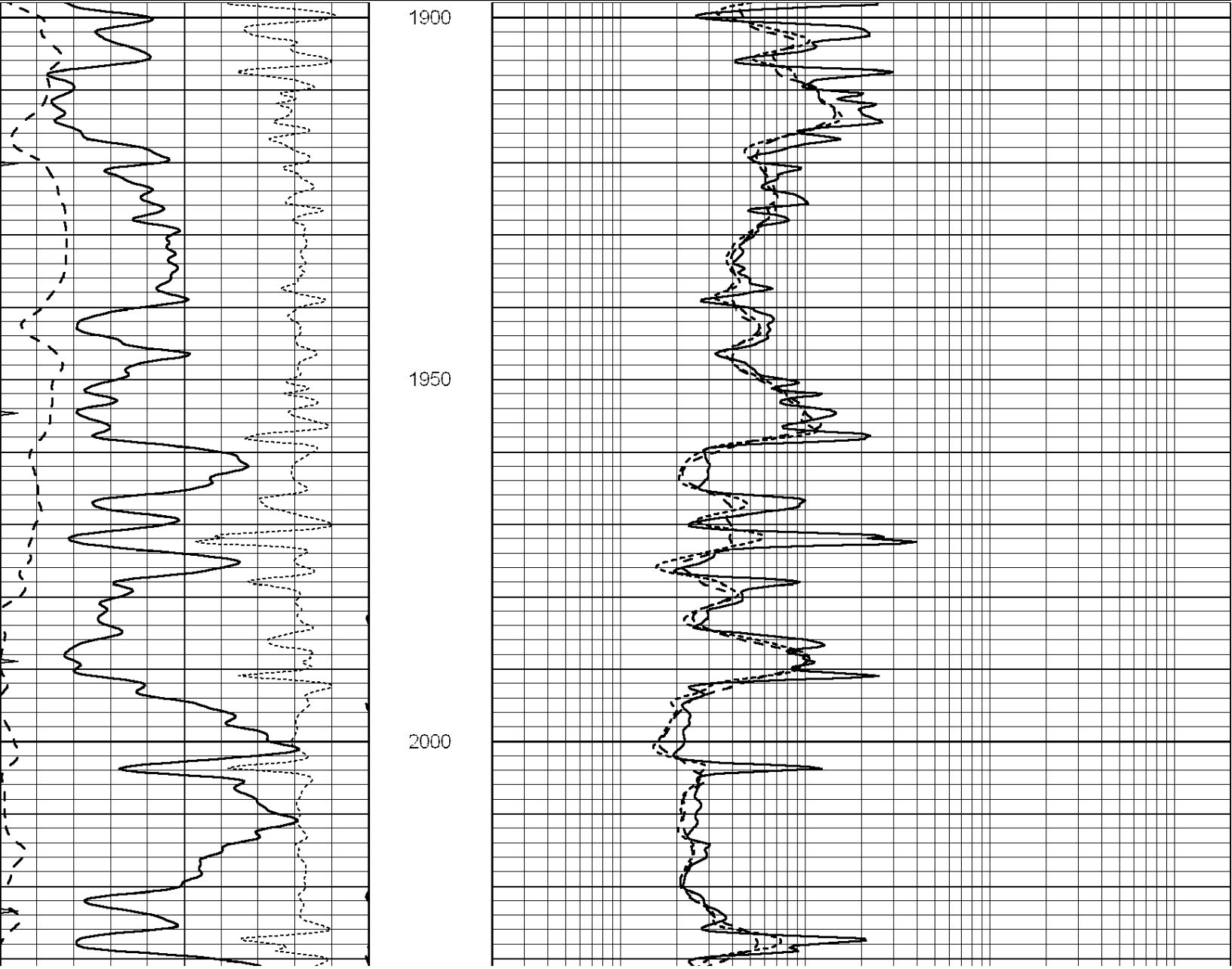
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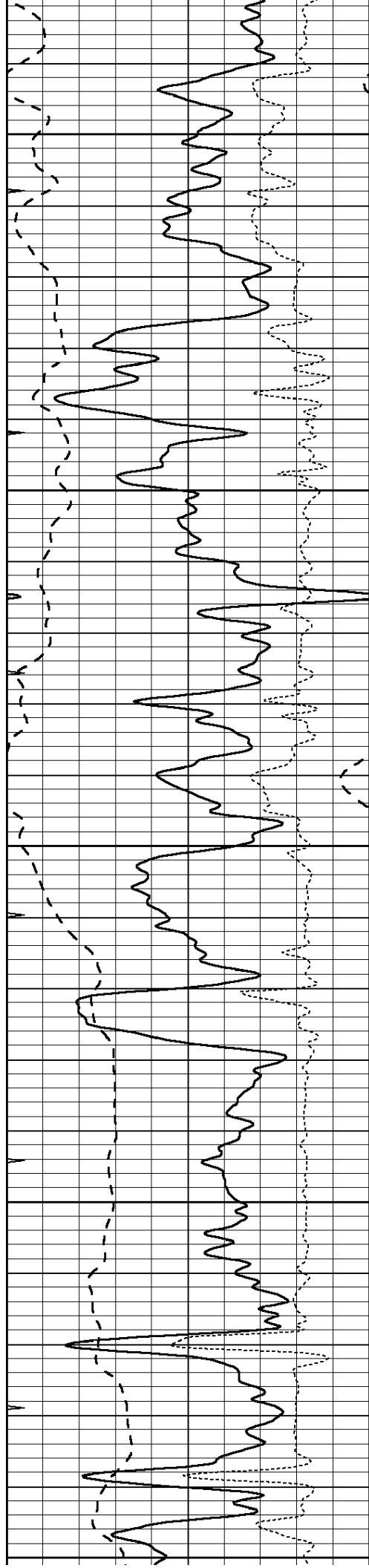
Hays,
Kansas

MAIN SECTION

Database File:	009114ddn.db
Dataset Pathname:	pass3.2A
Presentation Format:	dil
Dataset Creation:	Thu May 10 07:42:35 2012
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





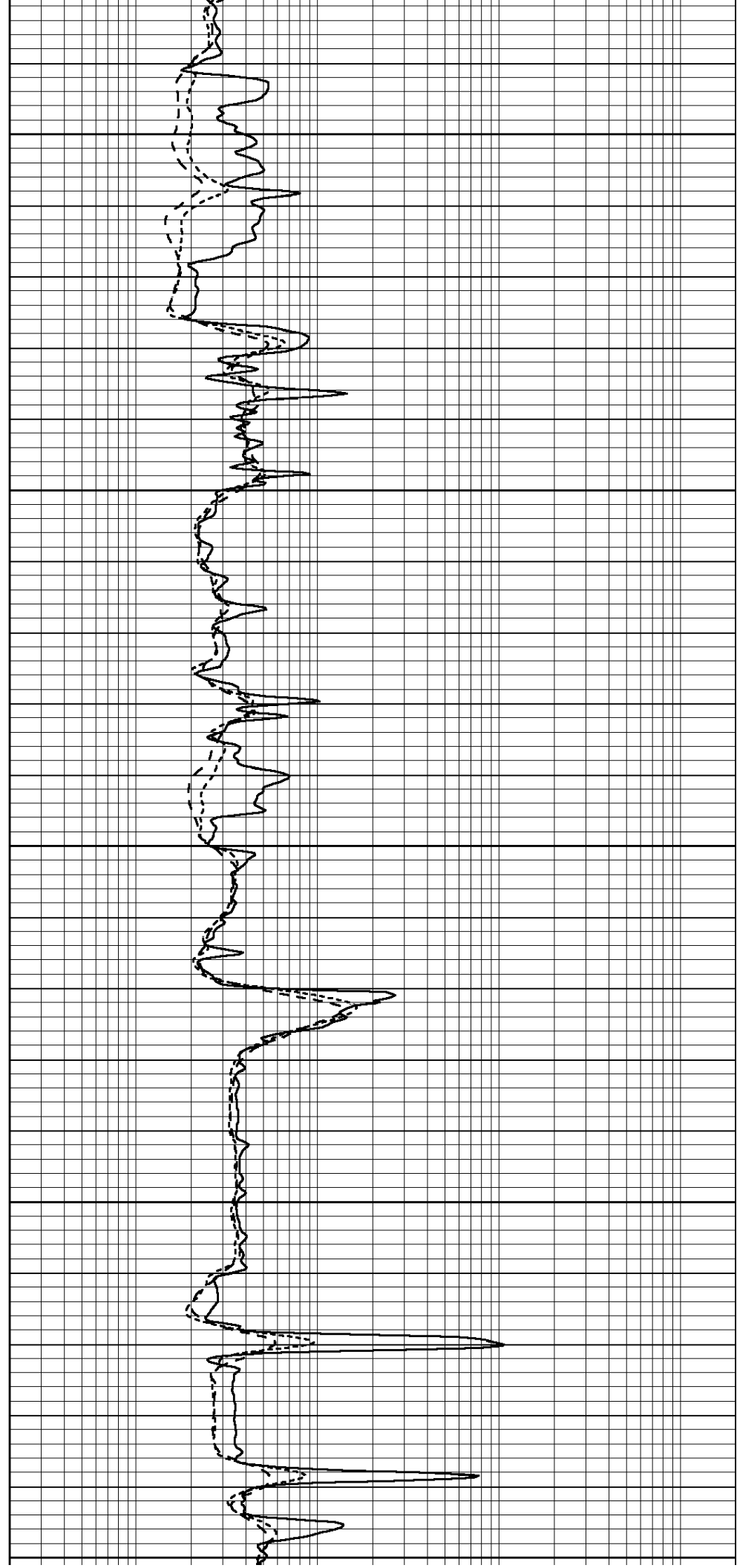
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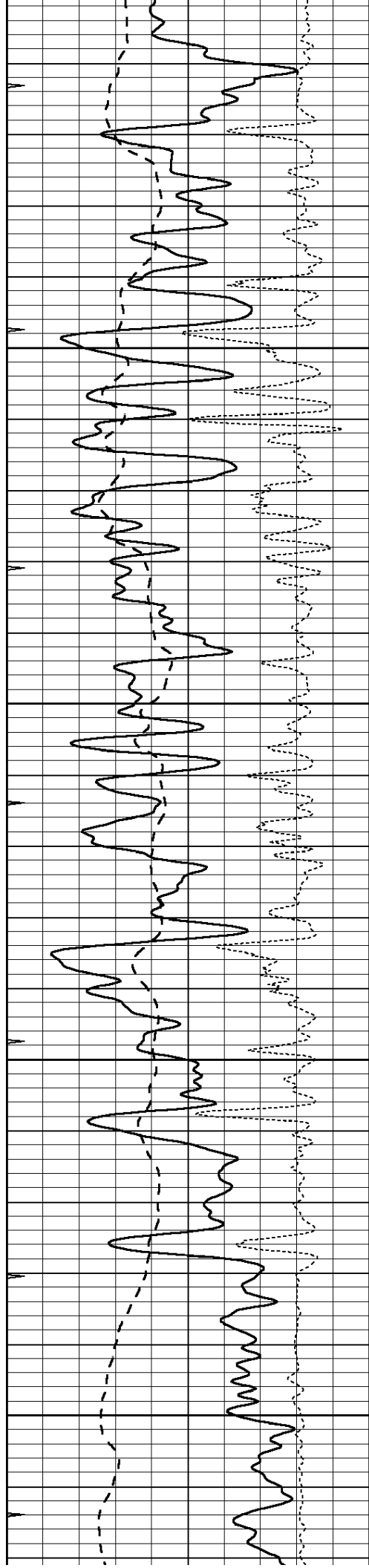
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2150

2200

2250



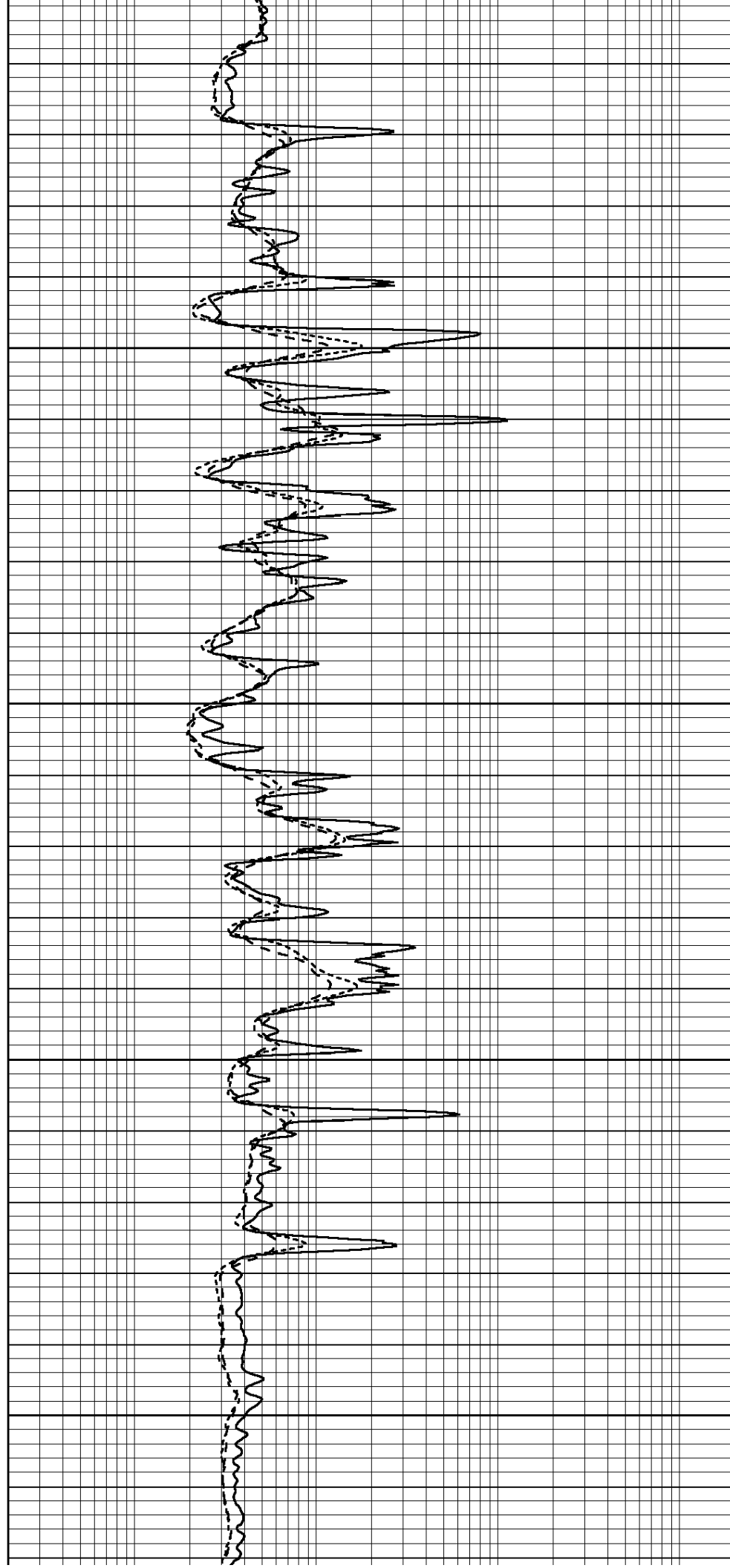


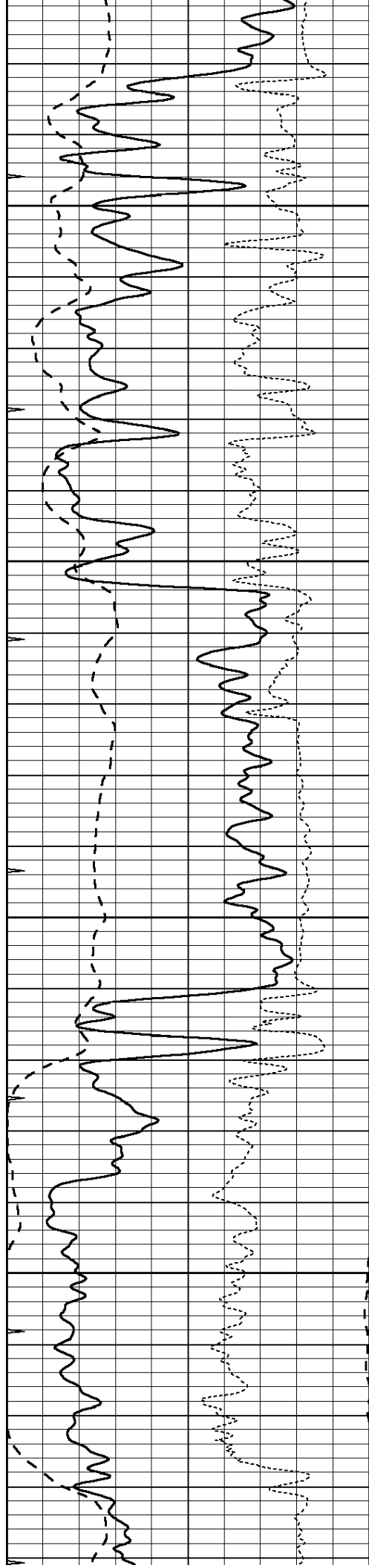
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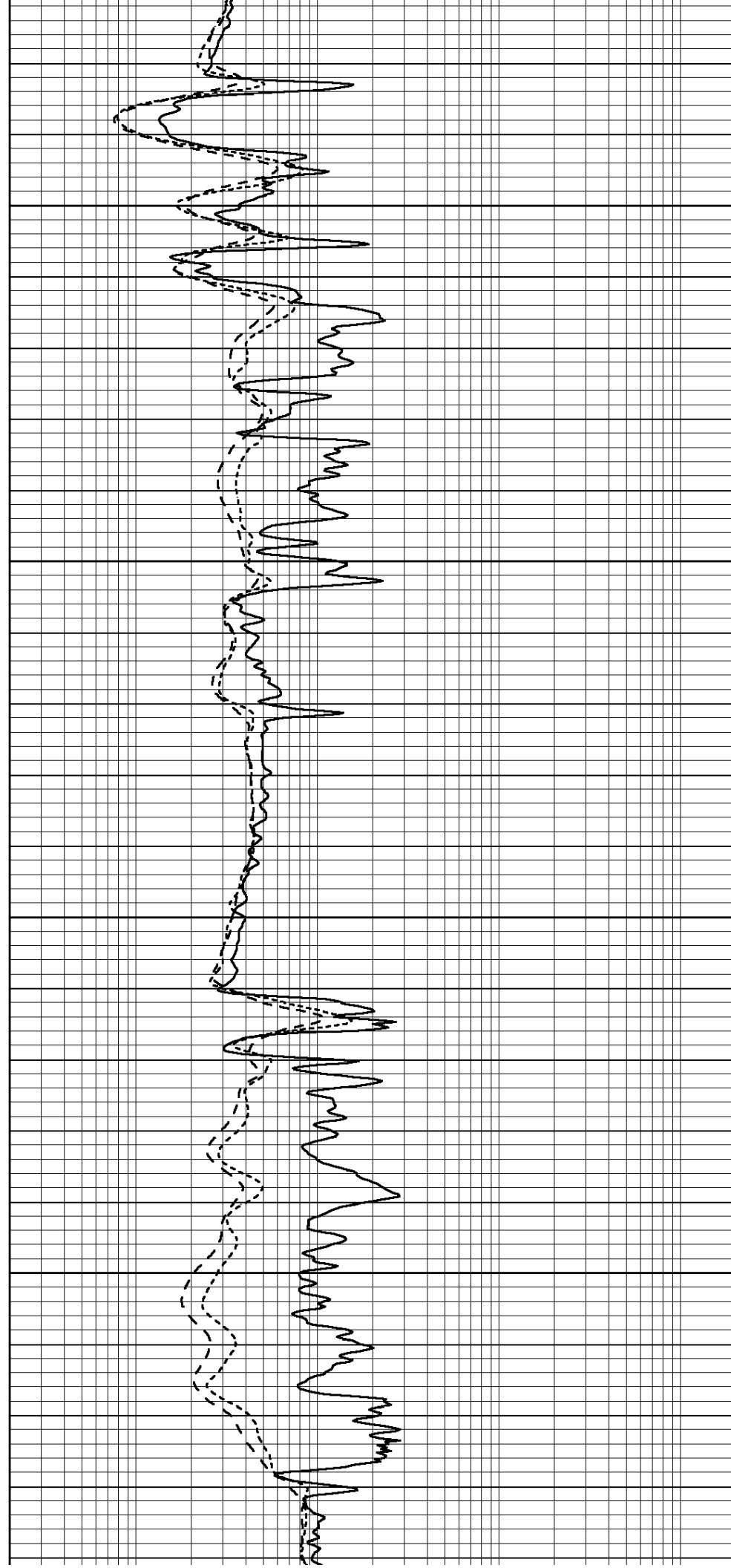


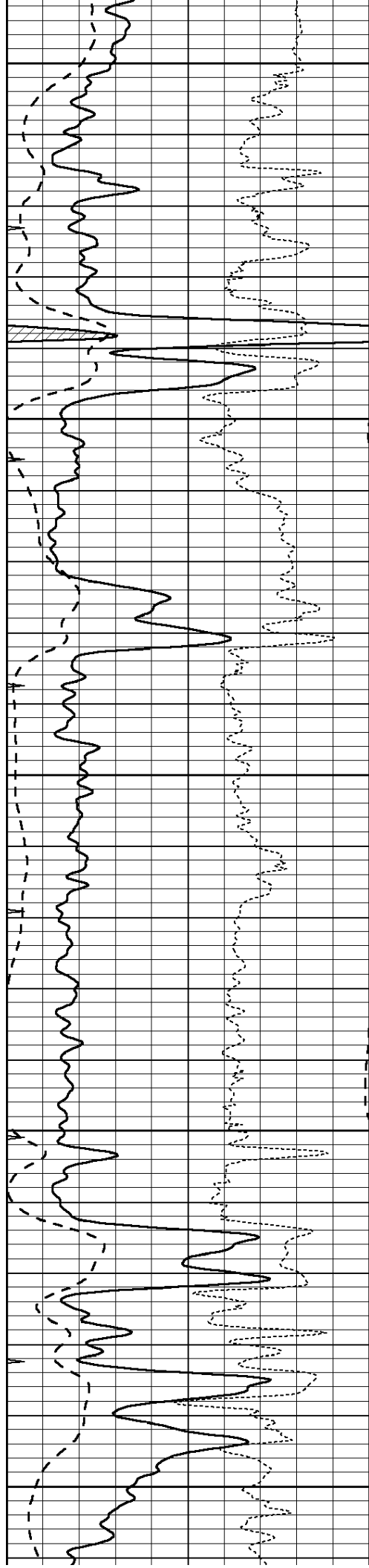
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2600

2650





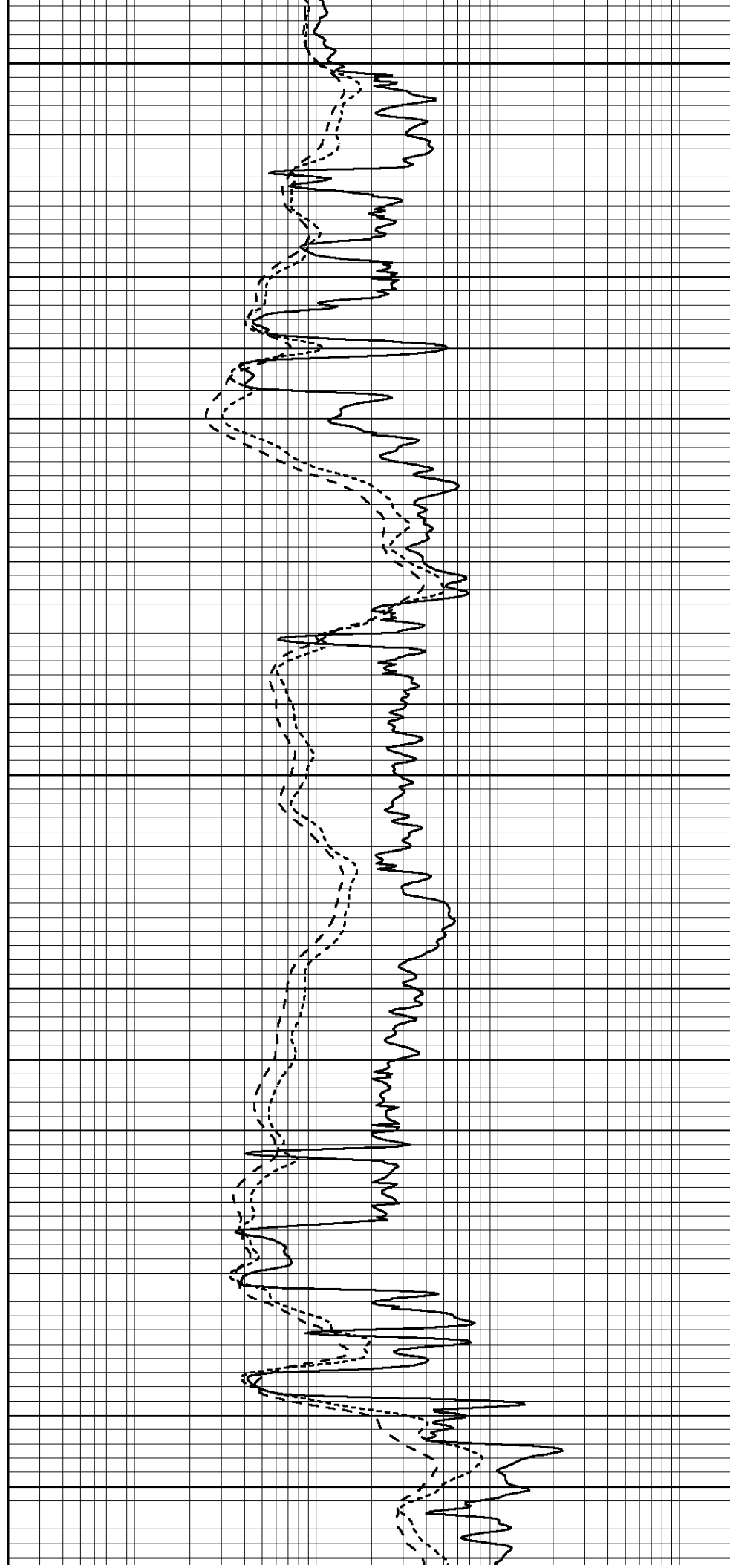
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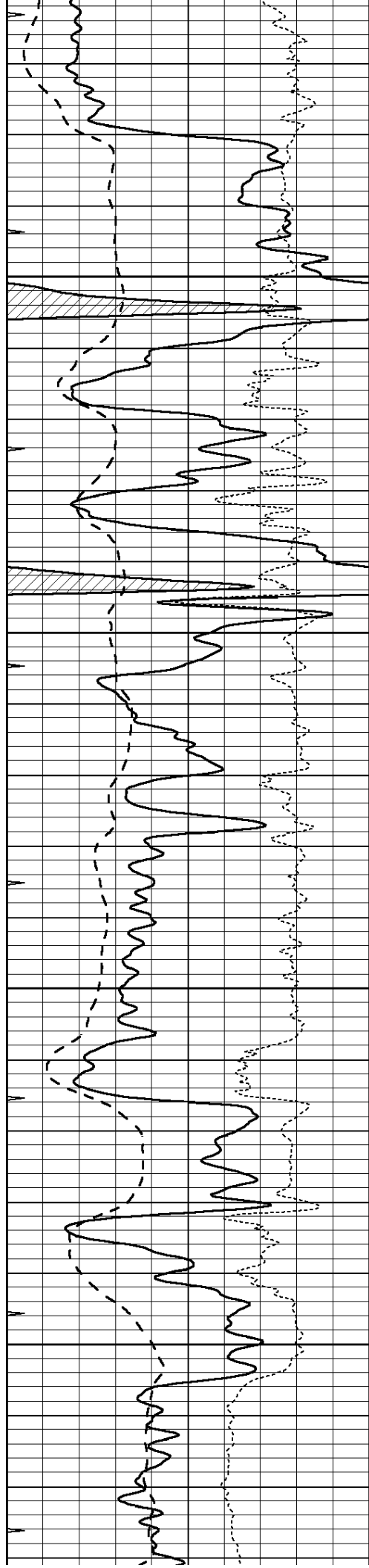
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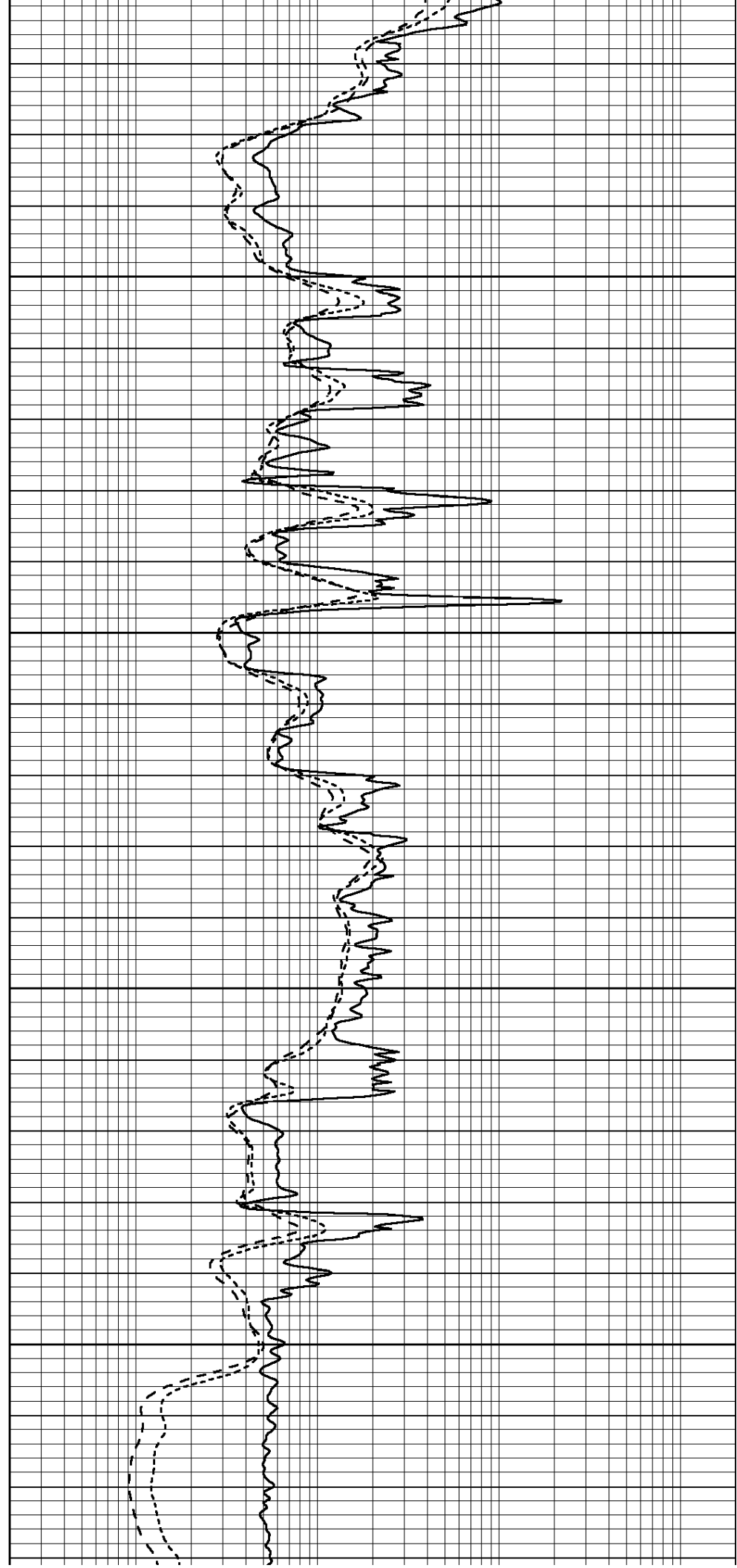


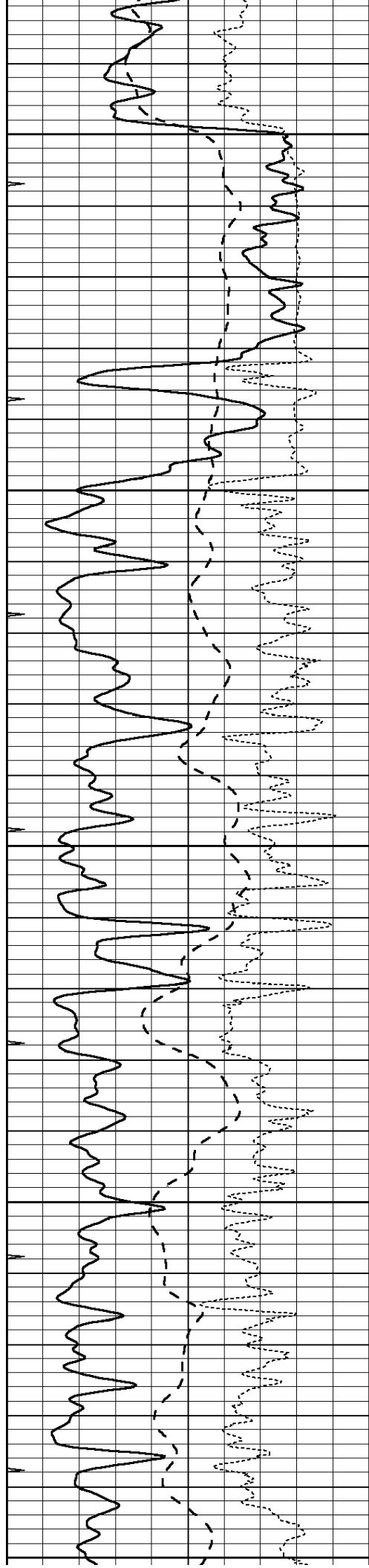
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3000

3050

3100





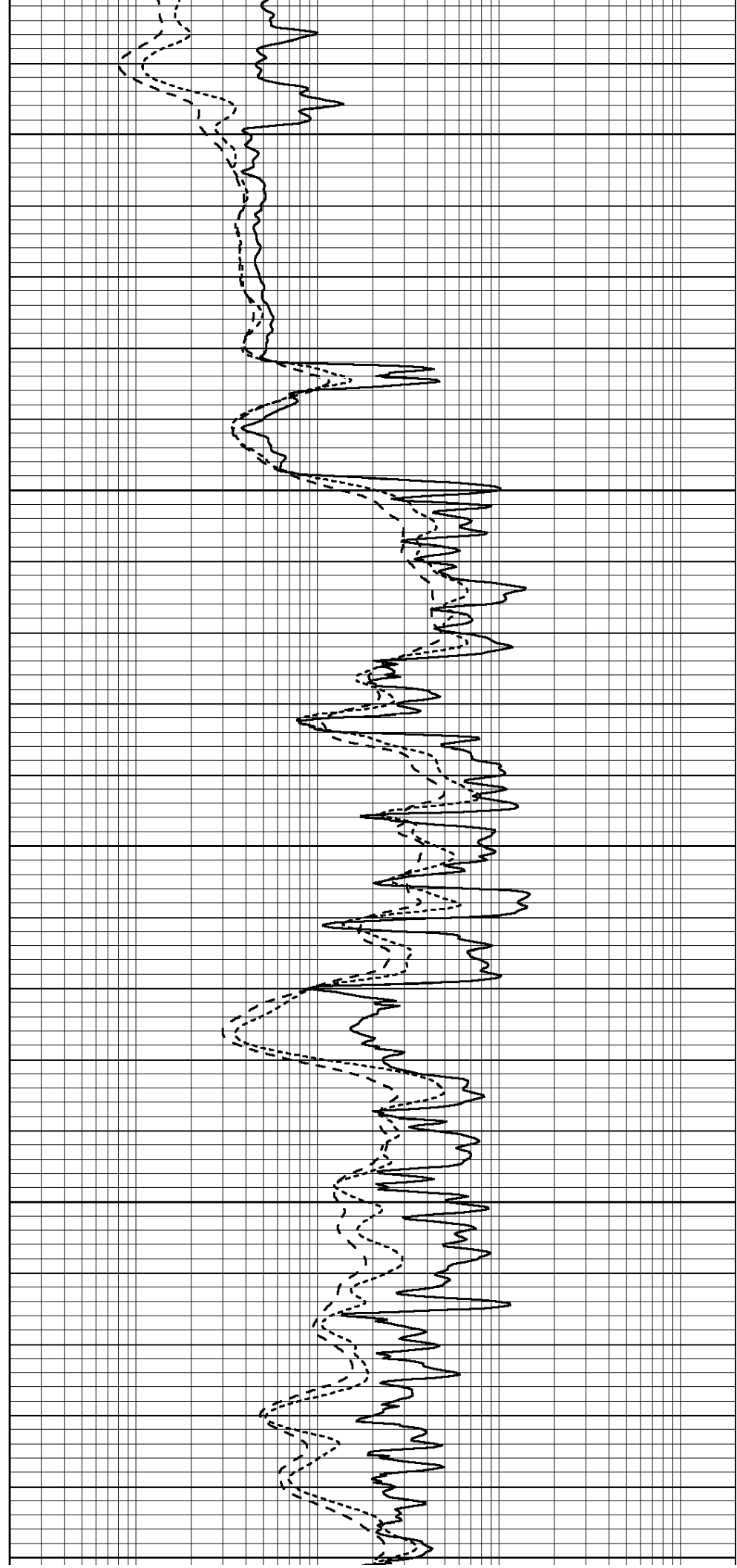
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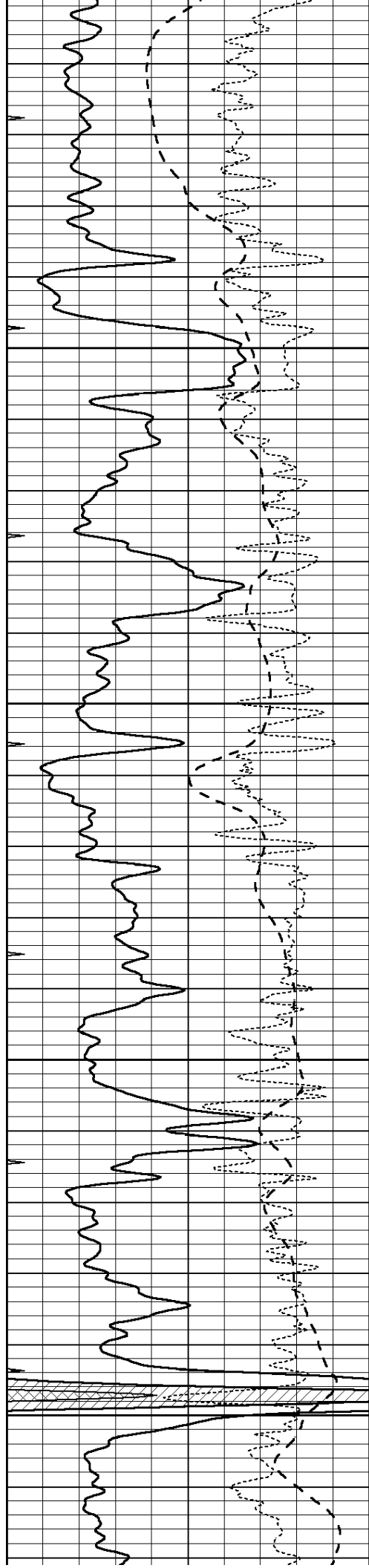
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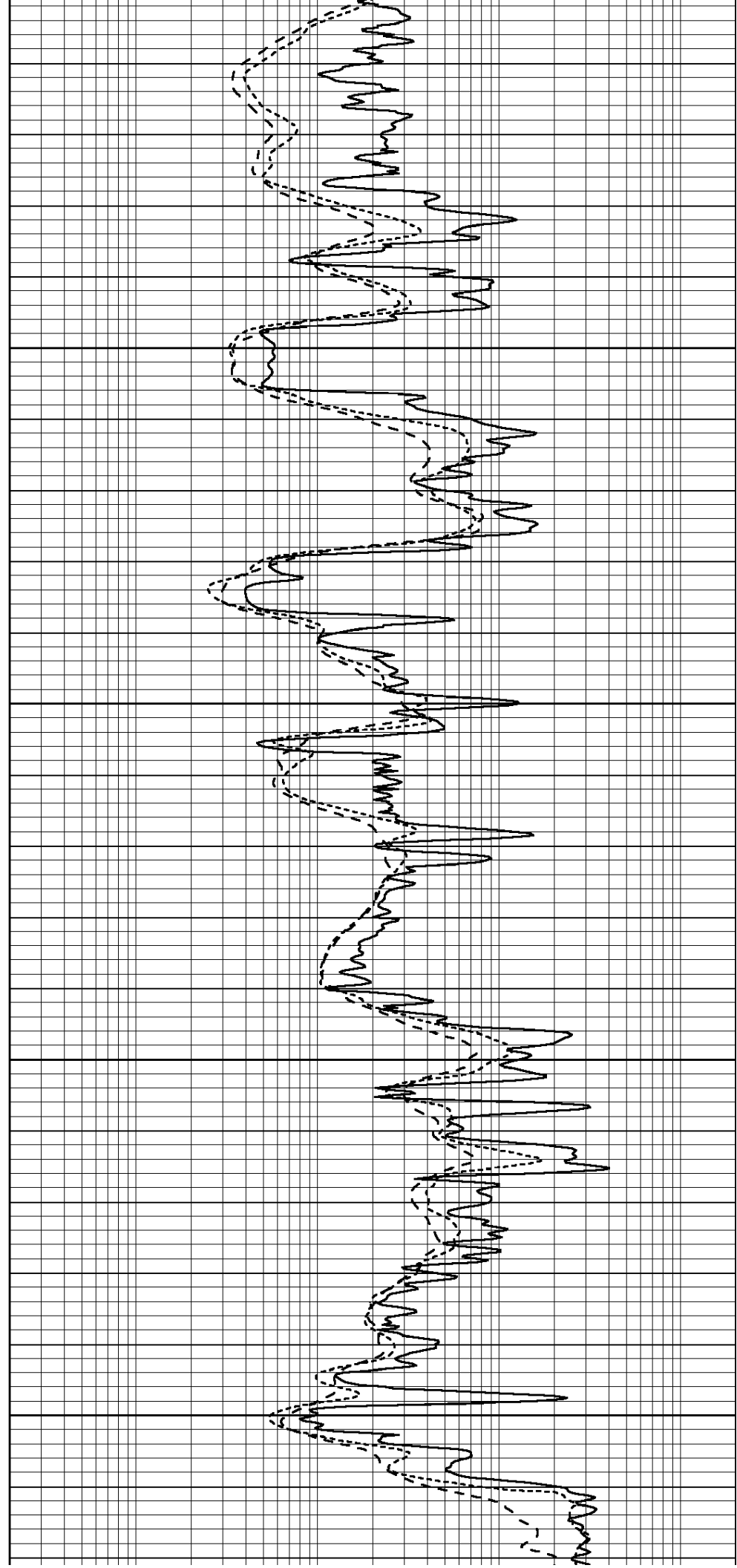


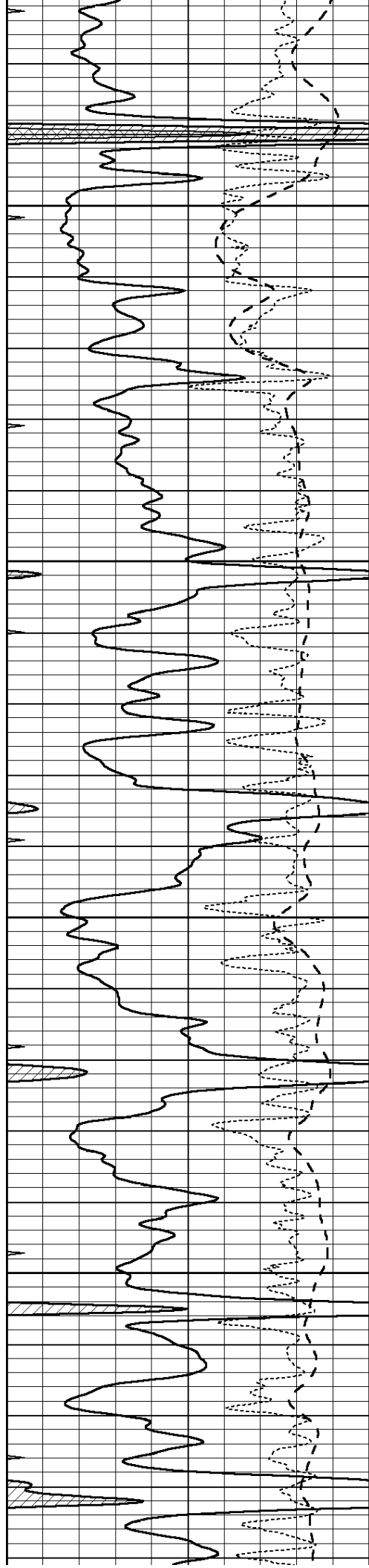
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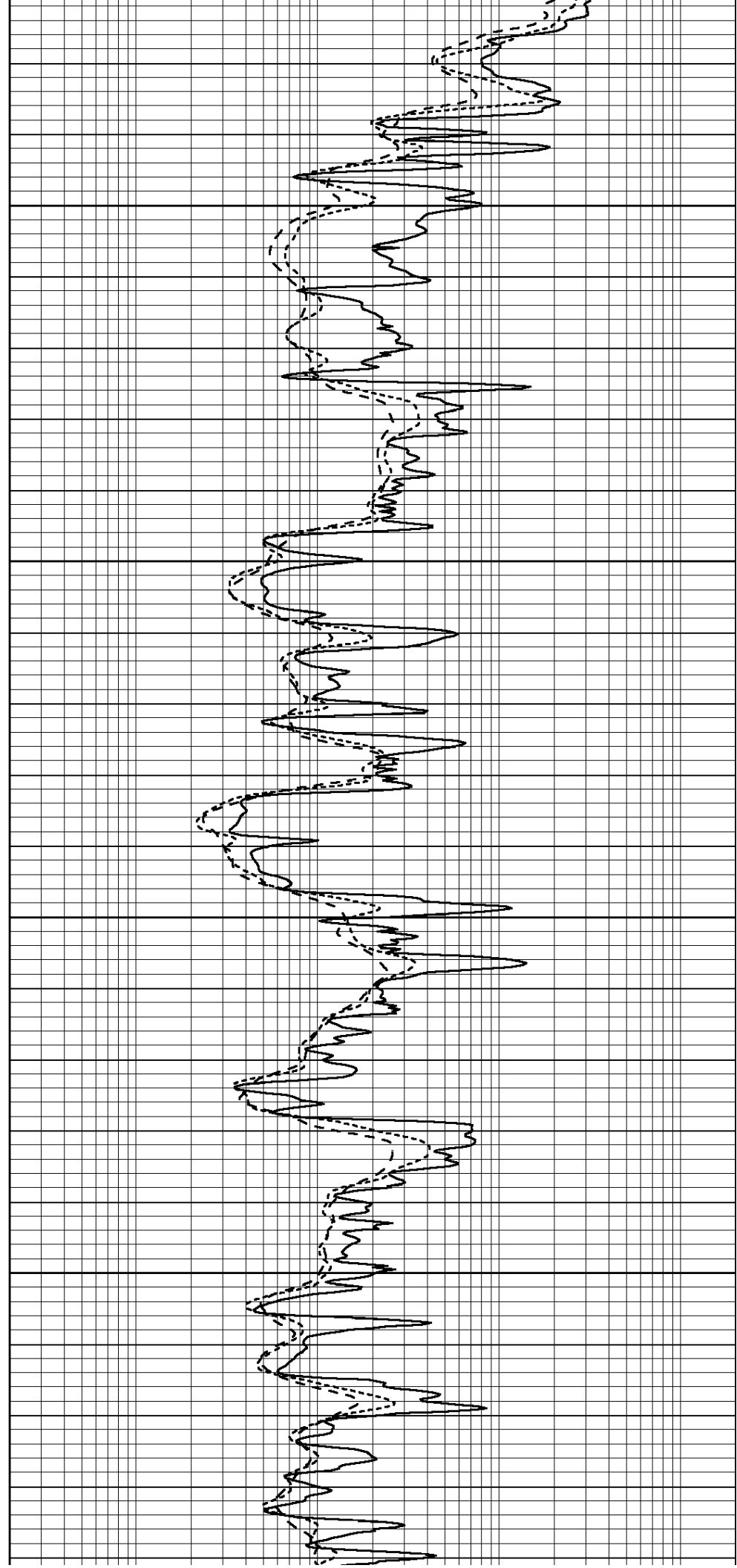


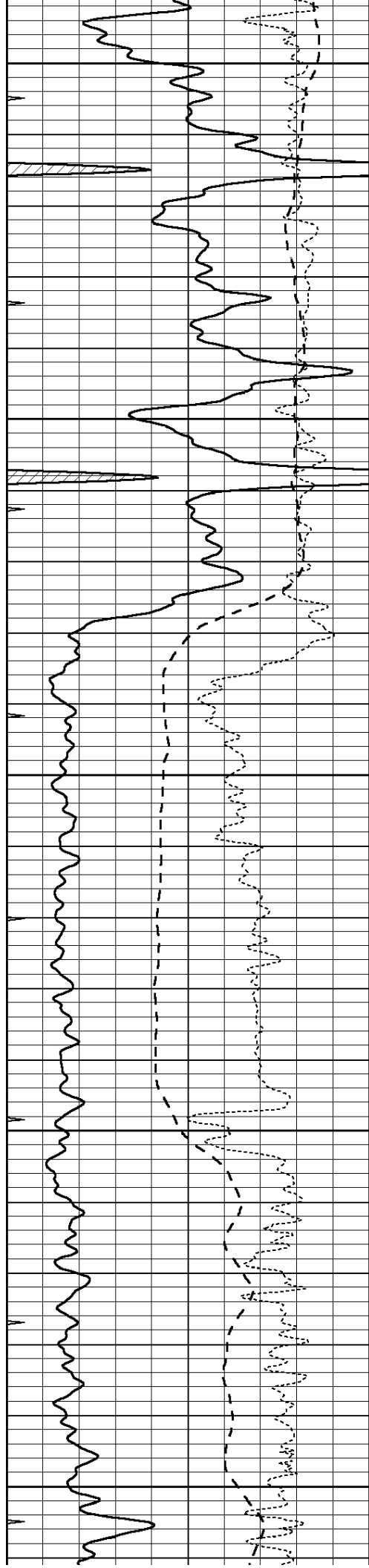
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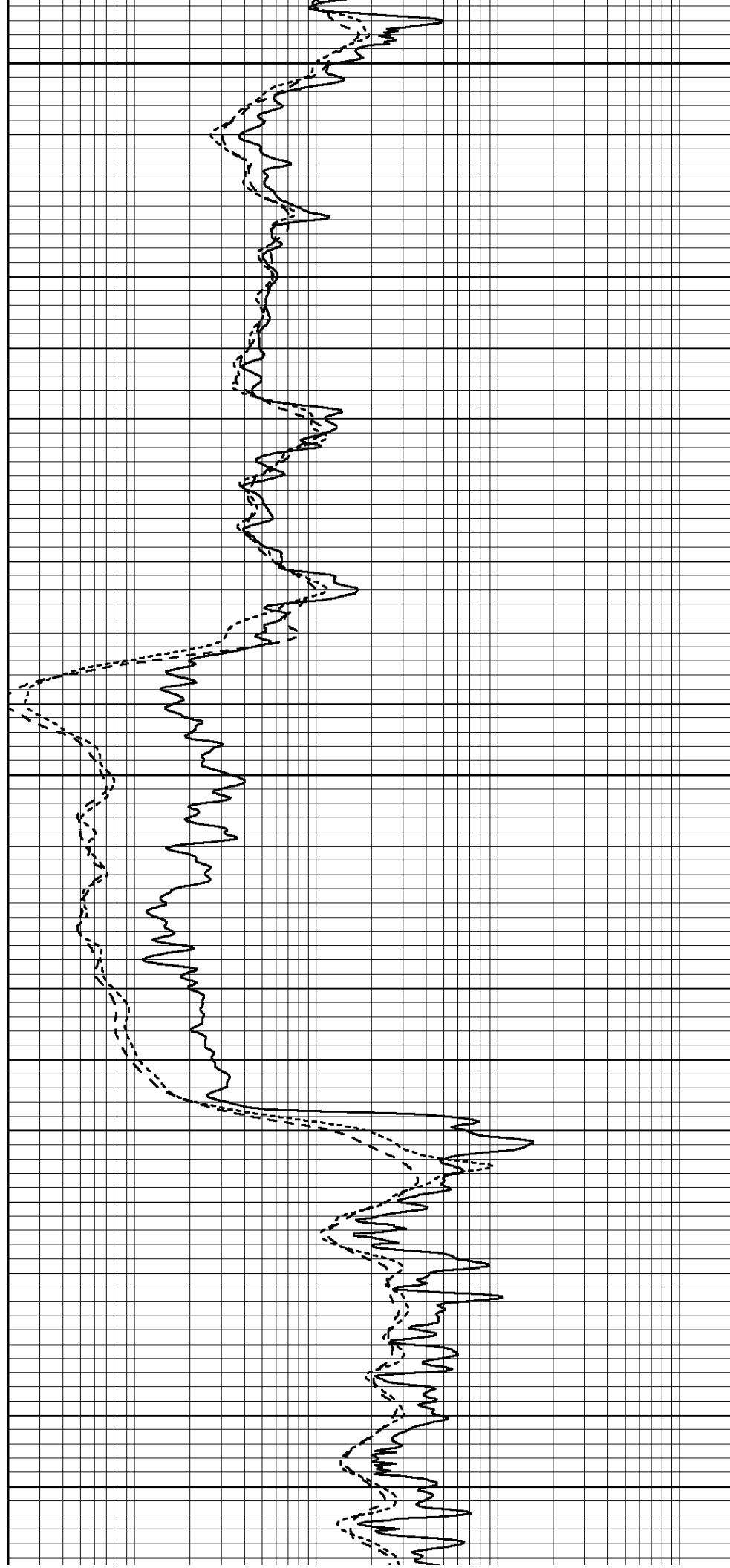
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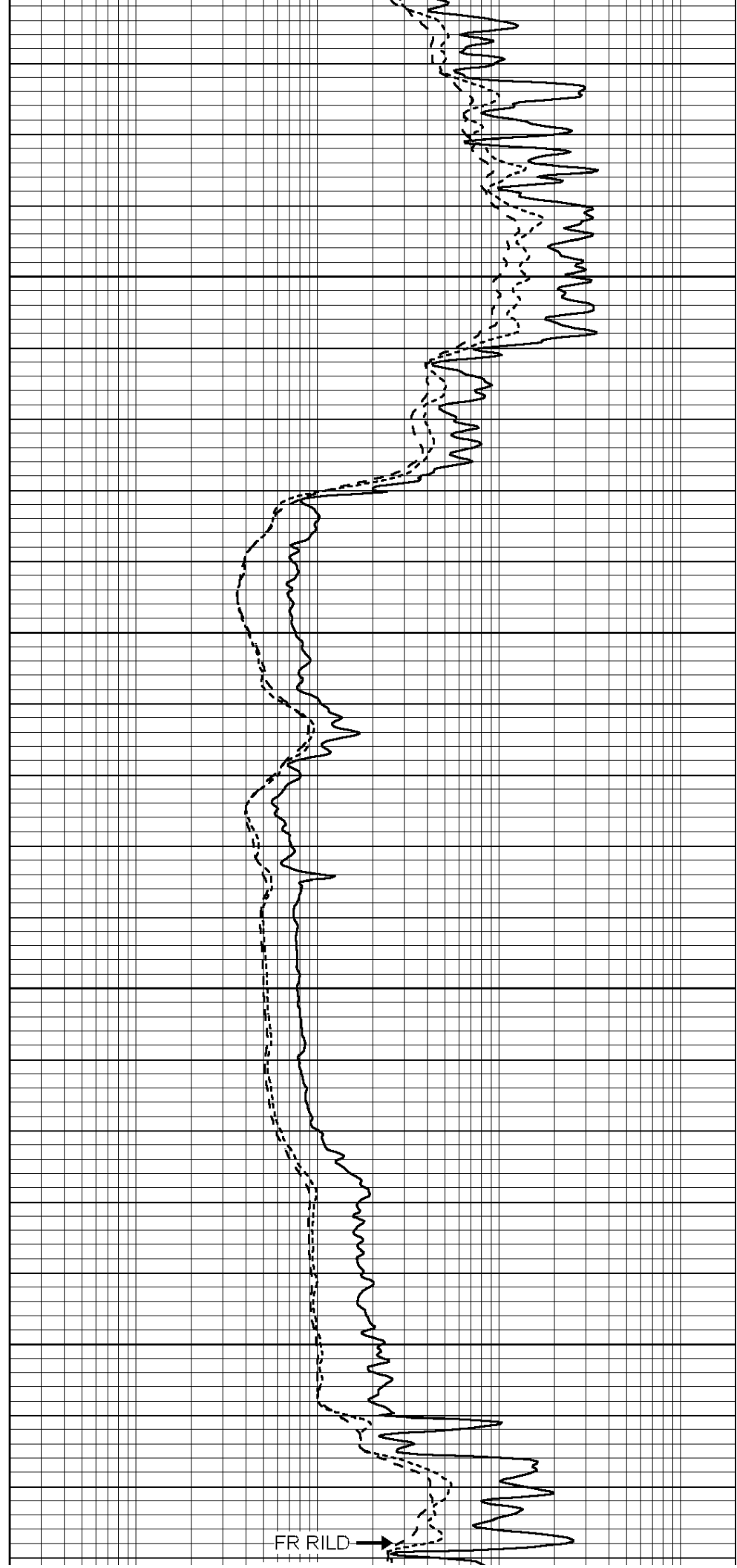
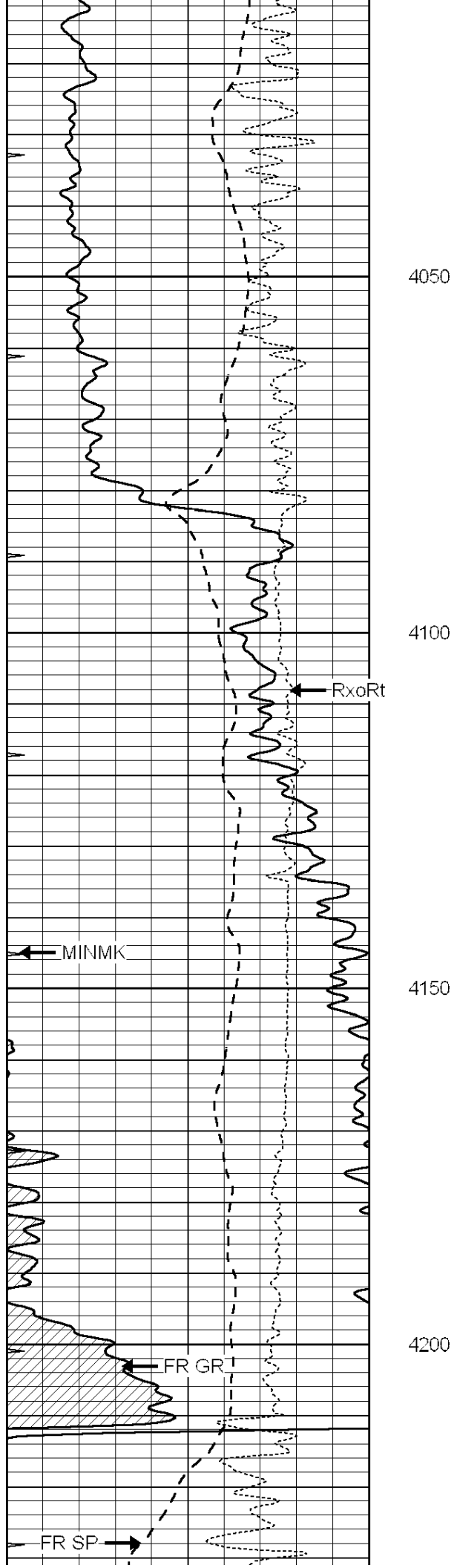
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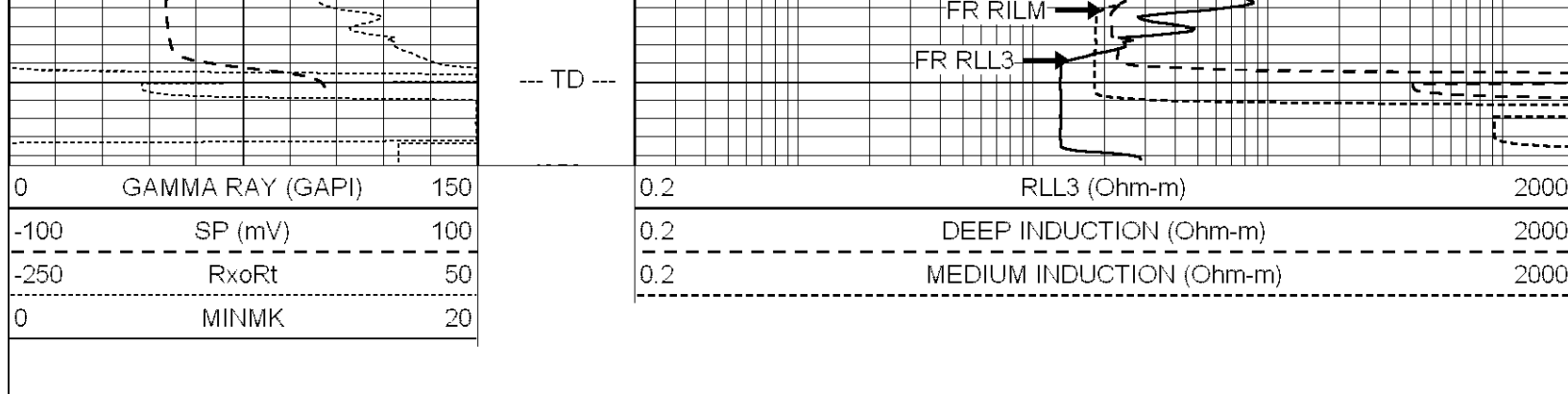
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3950

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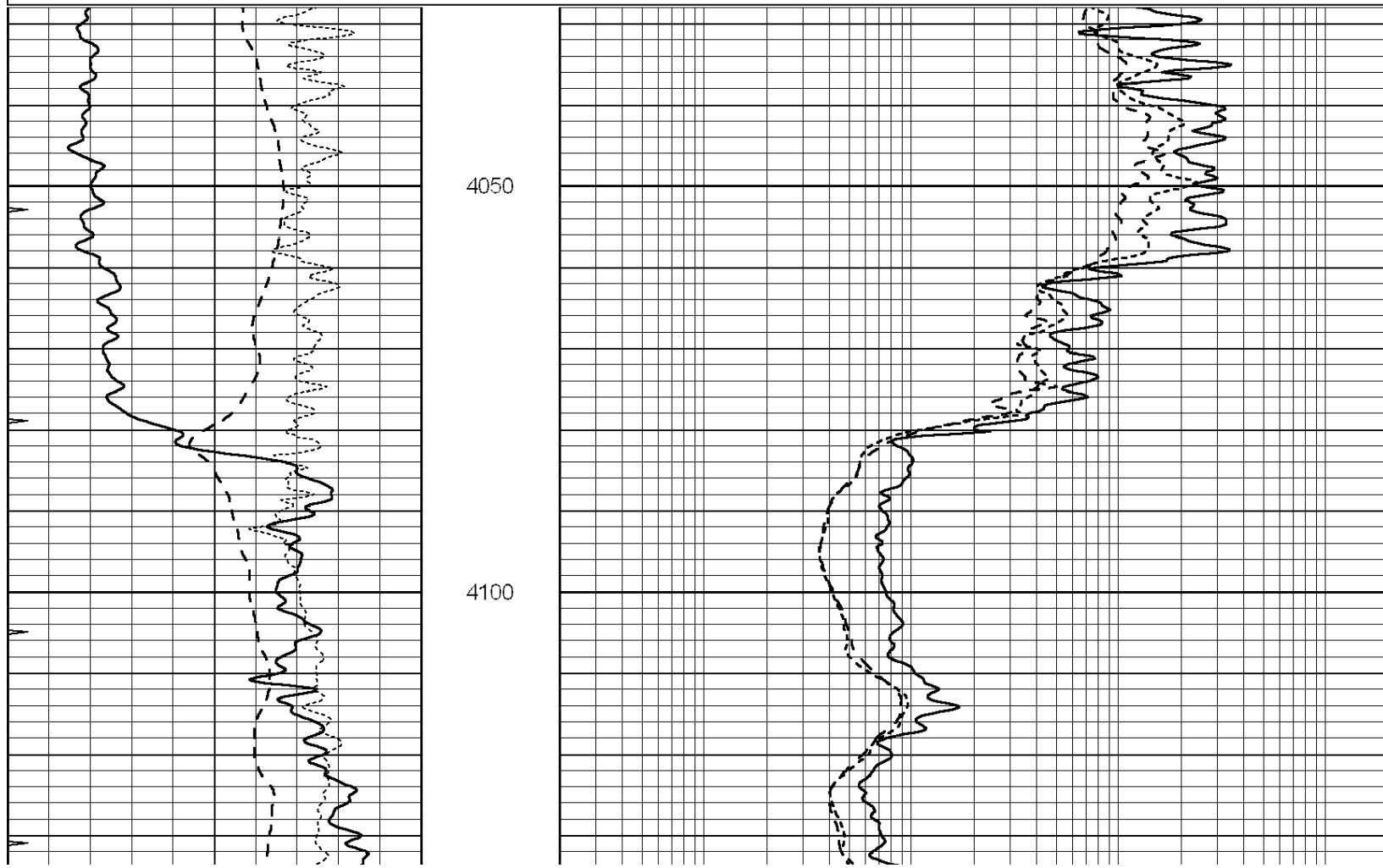
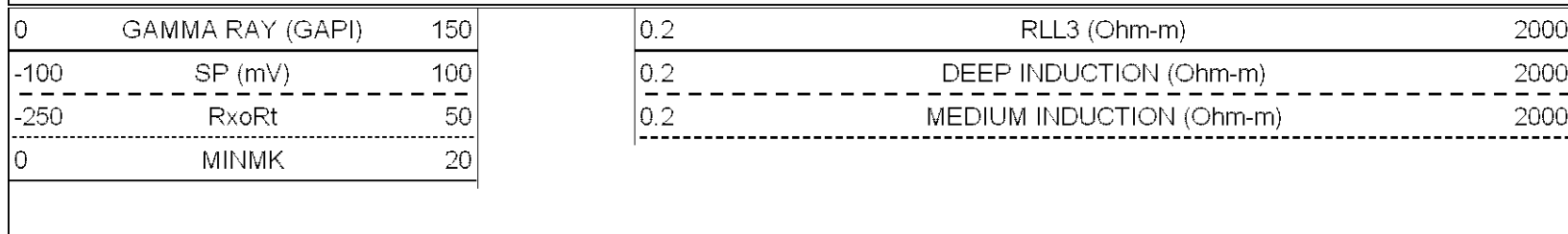


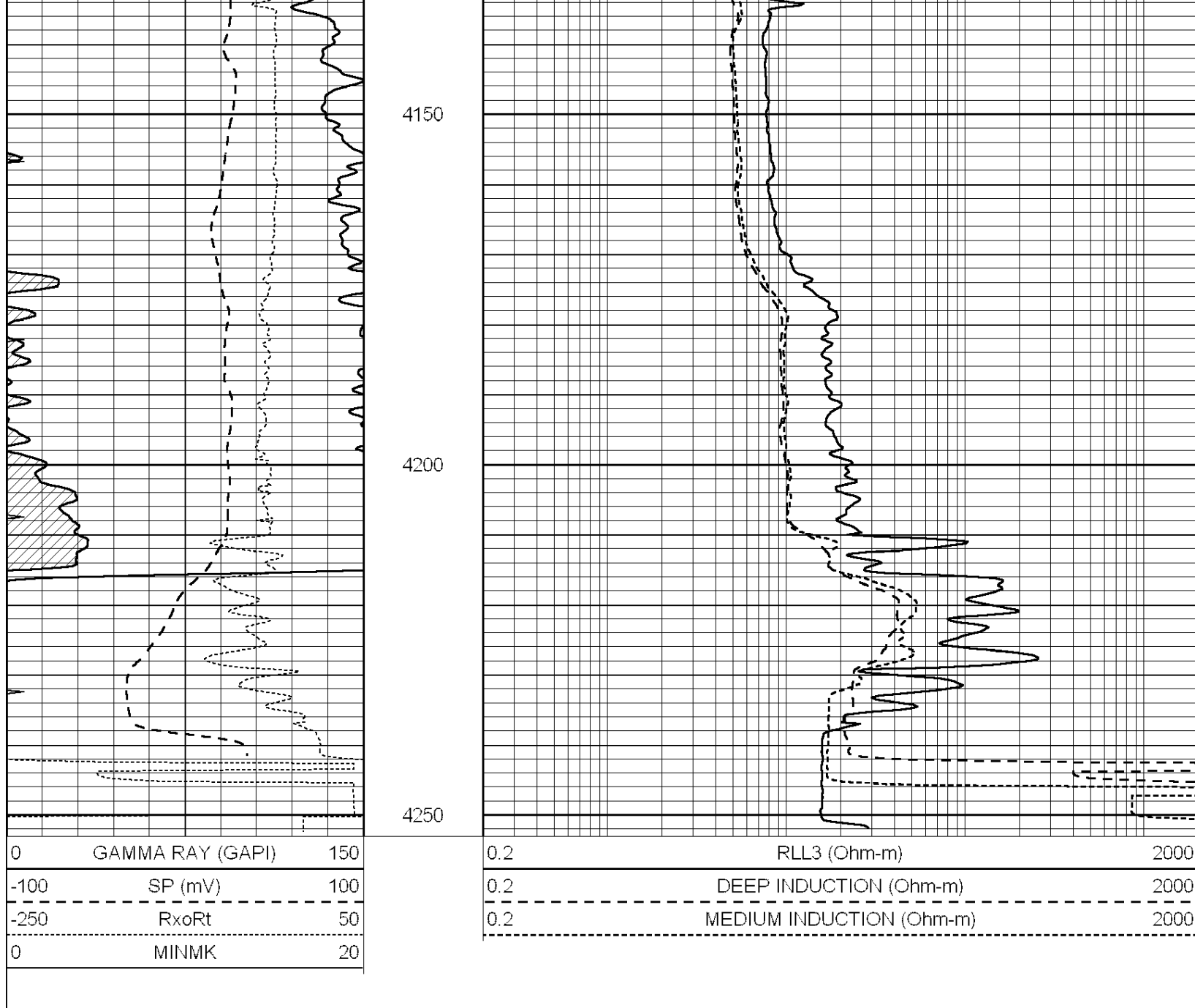


SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	009114ddn.db
Dataset Pathname:	pass2.2A
Presentation Format:	dil
Dataset Creation:	Thu May 10 07:10:59 2012
Charted by:	Depth in Feet scaled 1:240





Calibration Report								
Database File:		009114ddn.db						
Dataset Pathname:		pass3.2A						
Dataset Creation:		Thu May 10 07:42:35 2012						
Dual Induction Calibration Report								
Serial-Model:		PROBE9-DILG						
Surface Cal Performed:		Thu May 10 04:20:47 2012						
Downhole Cal Performed:		Mon Jul 28 12:02:56 2008						
After Survey Verification Performed:		Mon Jul 28 12:02:56 2008						
Surface Calibration								
		Readings			References		Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	550.000	-8.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	540.000	-10.000
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		3970.000	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		

Compensated Density Calibration Report

Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Thu May 10 04:14:54 2012

Master Calibration						
			Density	Far Detector		Near Detector
Magnesium		1.710	g/cc	1243.76	629.14	cps
Aluminum		2.590	g/cc	282.16	435.01	cps
			Spine Angle = 76.03	Density/Spine Ratio = 0.576		
			Size	Reading		
Small Ring		9.10	in	3.50	V	
Large Ring		14.00	in	5.30	V	

Compensated Neutron Calibration Report

Serial Number:	NUE_2I
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:	GR5	
Tool Model:	OPEN	
Performed:	Thu May 10 04:14:34 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps

