



SUPERIOR
Hays,
Kansas

**DUAL
INDUCTION
LOG**

Company RITCHIE EXPLORATION, INC.
Well #1 EATON TRUST
Field WILDCAT
County LOGAN
State KANSAS

Company RITCHIE EXPLORATION, INC.
Well #1 EATON TRUST
Field WILDCAT
County LOGAN State KANSAS

Location: 1270' FNL & 530' FEL
API # : 15-109-21061-0000
Other Services CDL/CNL
SEC 24 TWP 13S RGE 31W
Permanent Datum GROUND LEVEL Elevation 2903
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Elevation
K.B. 2913
D.F. 2911
G.L. 2903

Date	1/6/12
Run Number	ONE
Depth Driller	4707
Depth Logger	4710
Bottom Logged Interval	4708
Top Log Interval	00
Casing Driller	8 5/8" @ 234
Casing Logger	233
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/64
pH / Fluid Loss	10.5/6.4
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.90 @ 60F
Rmf @ Meas. Temp	.67 @ 60F
Rmc @ Meas. Temp	1.08 @ 60F
Source of Rmf / Rmc	MEASURED
Rim @ BHT	.46 @ 115F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	115F
Equipment Number	680
Location	HAYS, KS.
Recorded By	JASON CAPPELLUCCI
Witnessed By	ADAM ELDANI

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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
OAKLEY, KS - 13 MILES SOUTH TO QUAIL RD - 1 MILE EAST
1 MILE SOUTH - 1 MILE EAST - SOUTH INTO



SUPERIOR
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MAIN SECTION

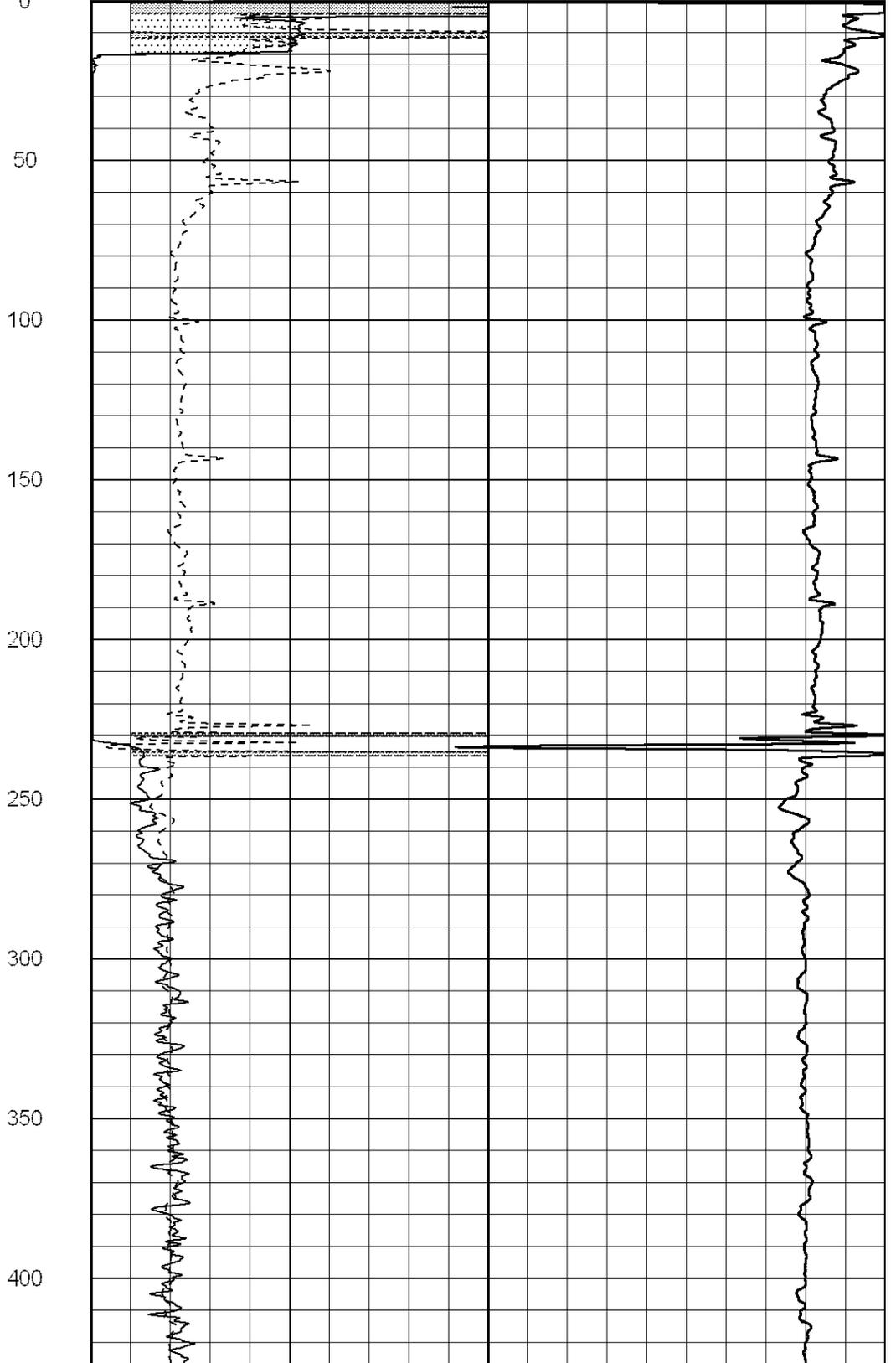
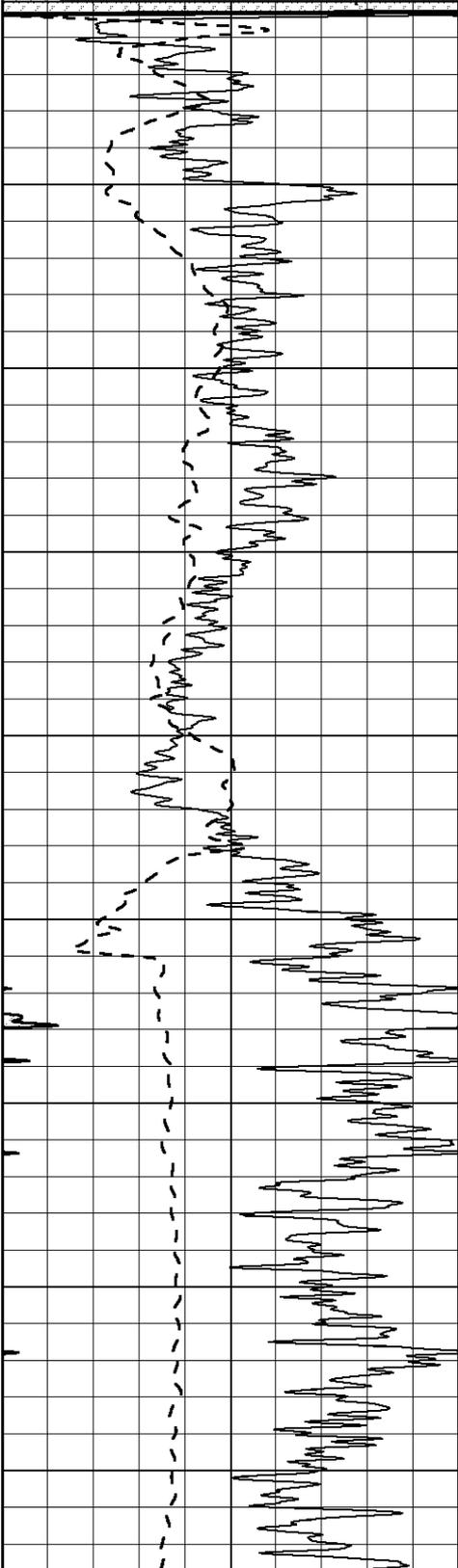
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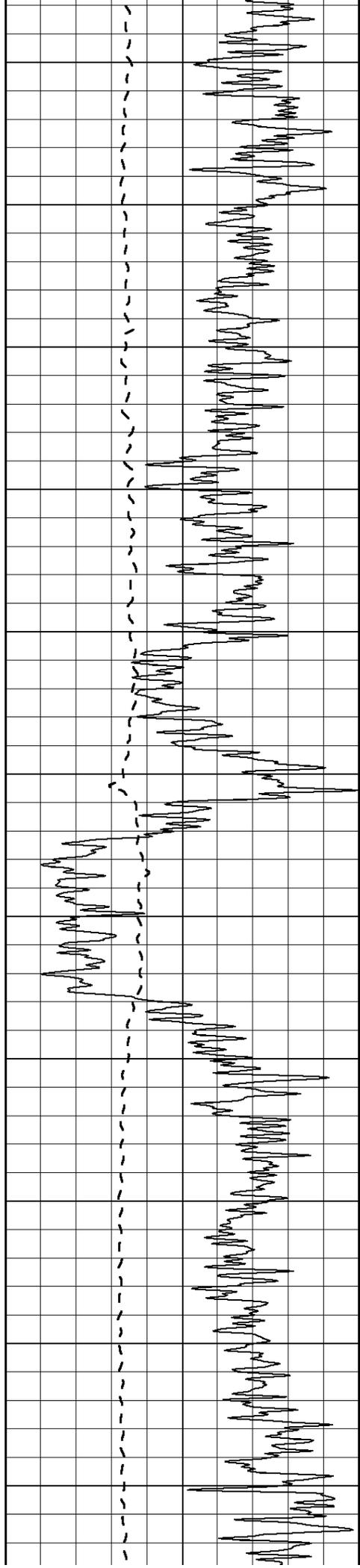
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-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

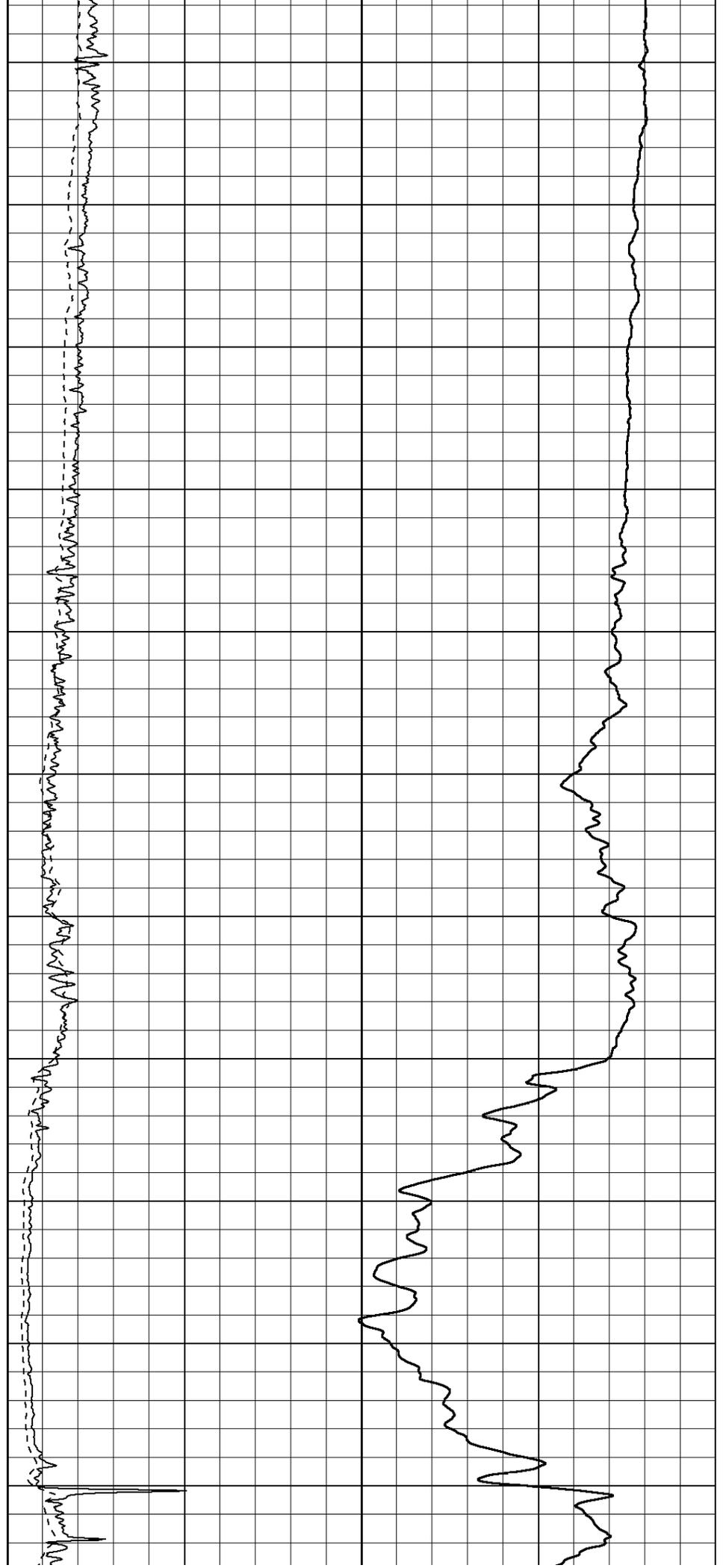
1000	CILD (mmho/m)	0
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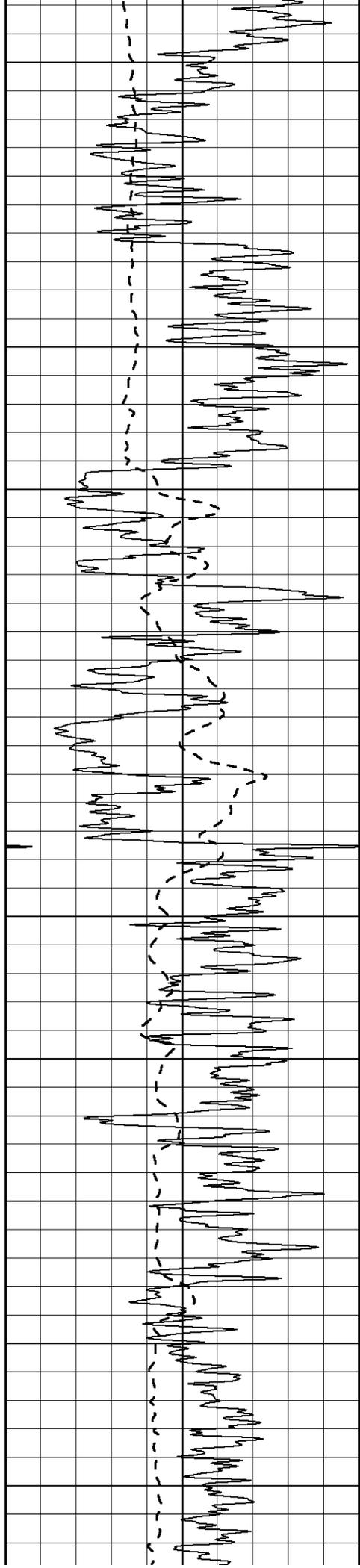
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500





450
500
550
600
650
700
750
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850
900
950





1000

1050

1100

1150

1200

1250

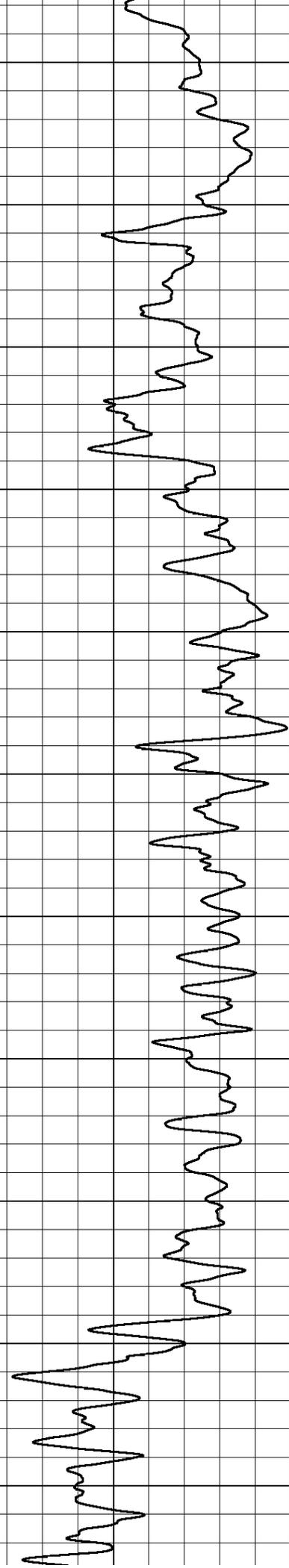
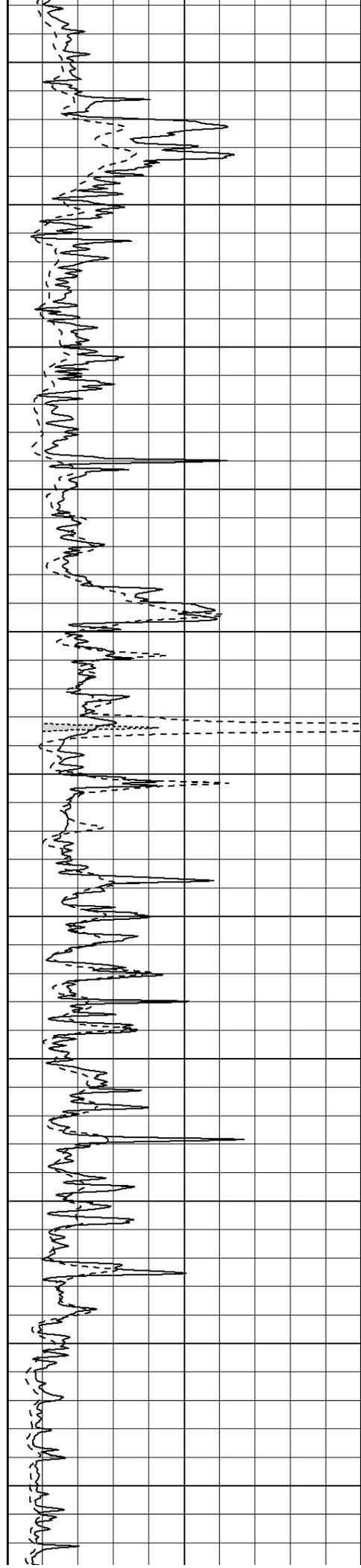
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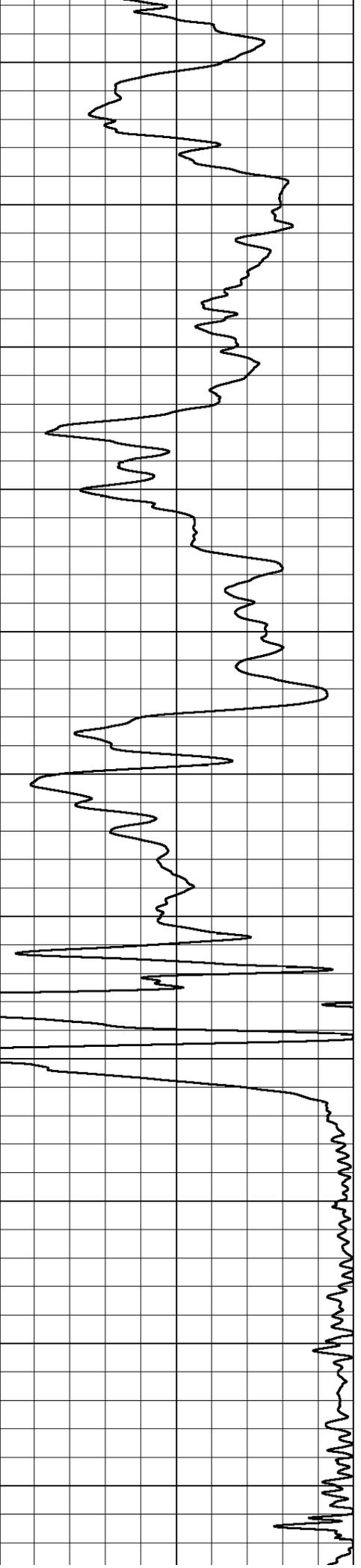
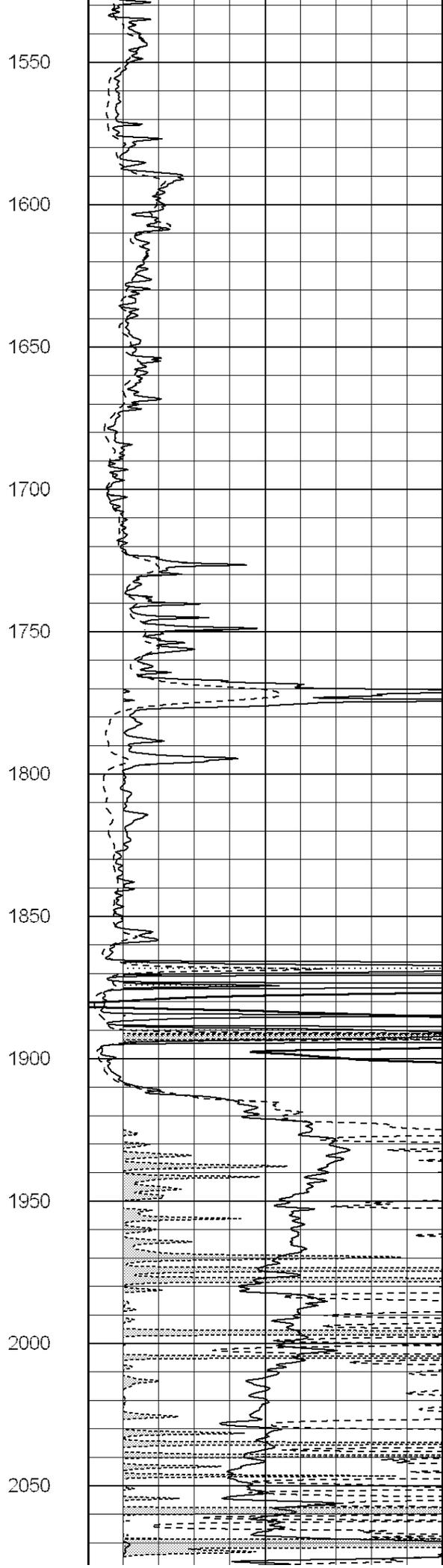
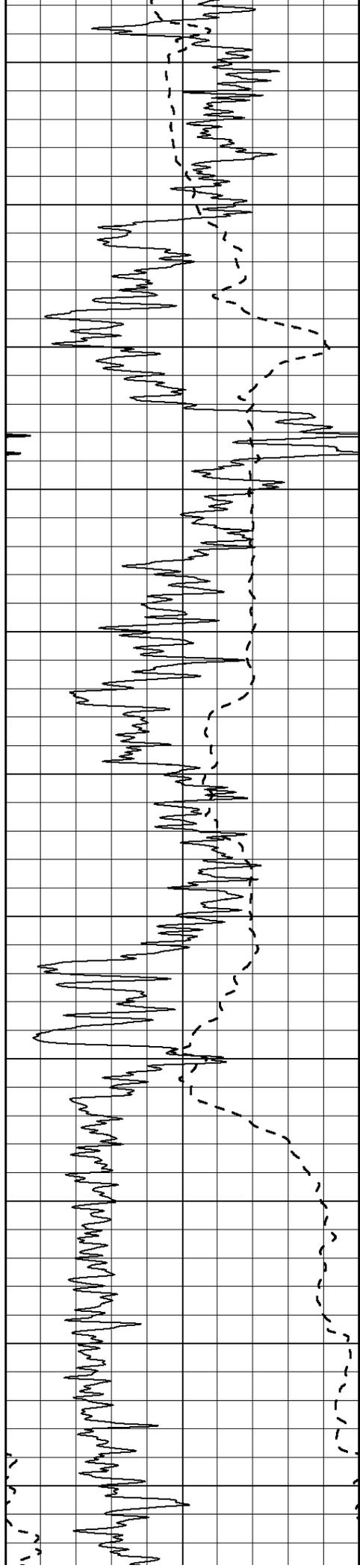
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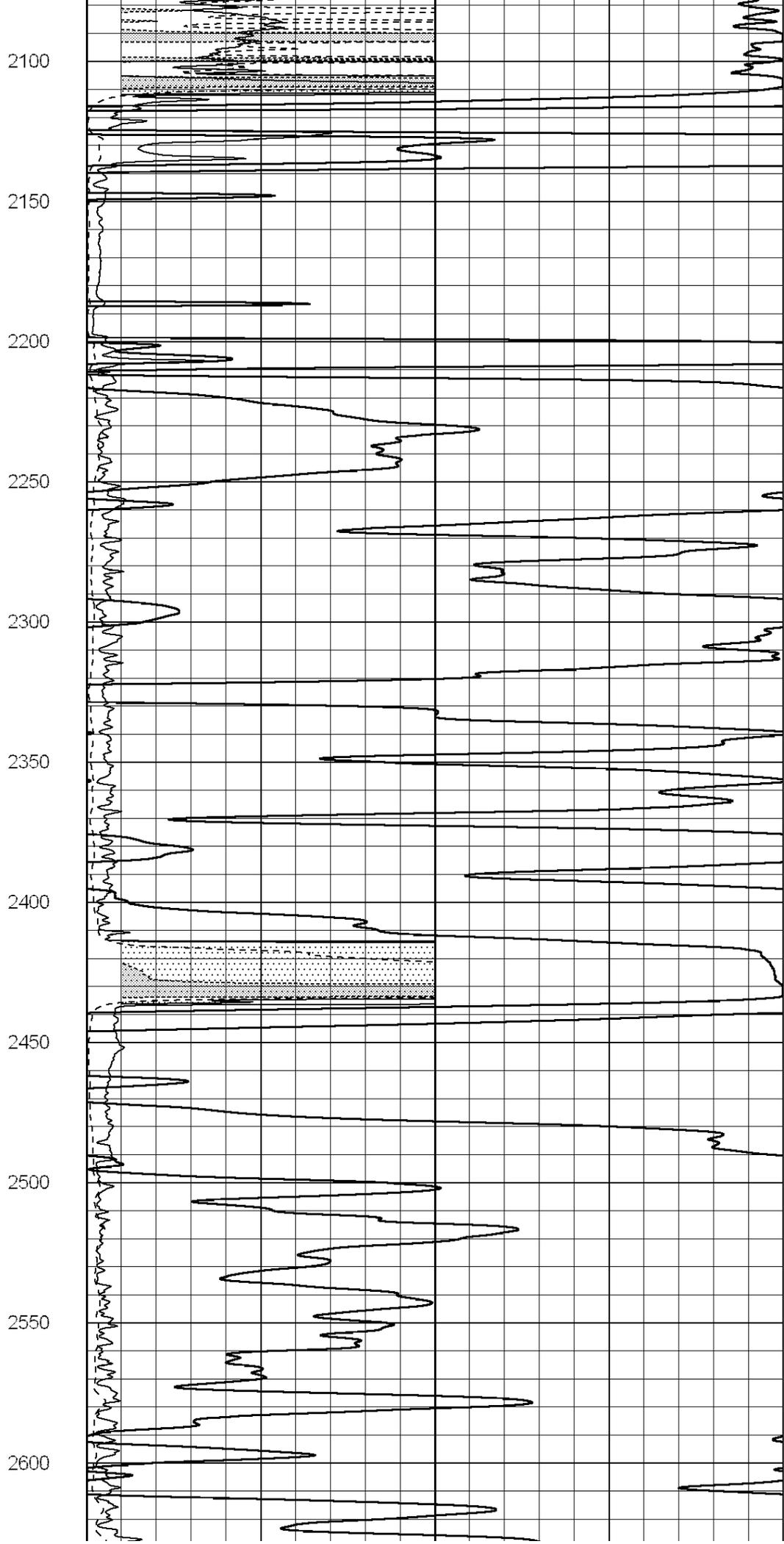
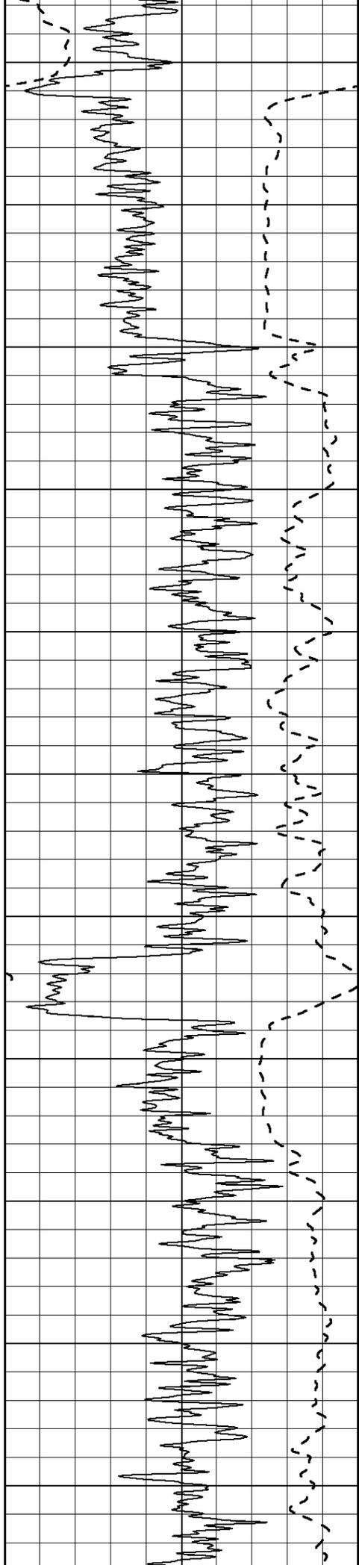
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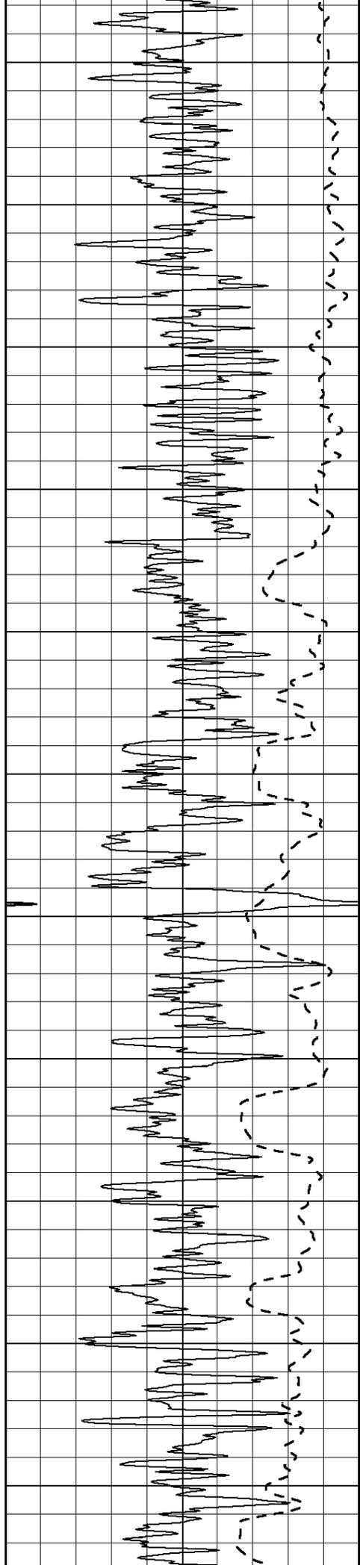
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1500









2650

2700

2750

2800

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2900

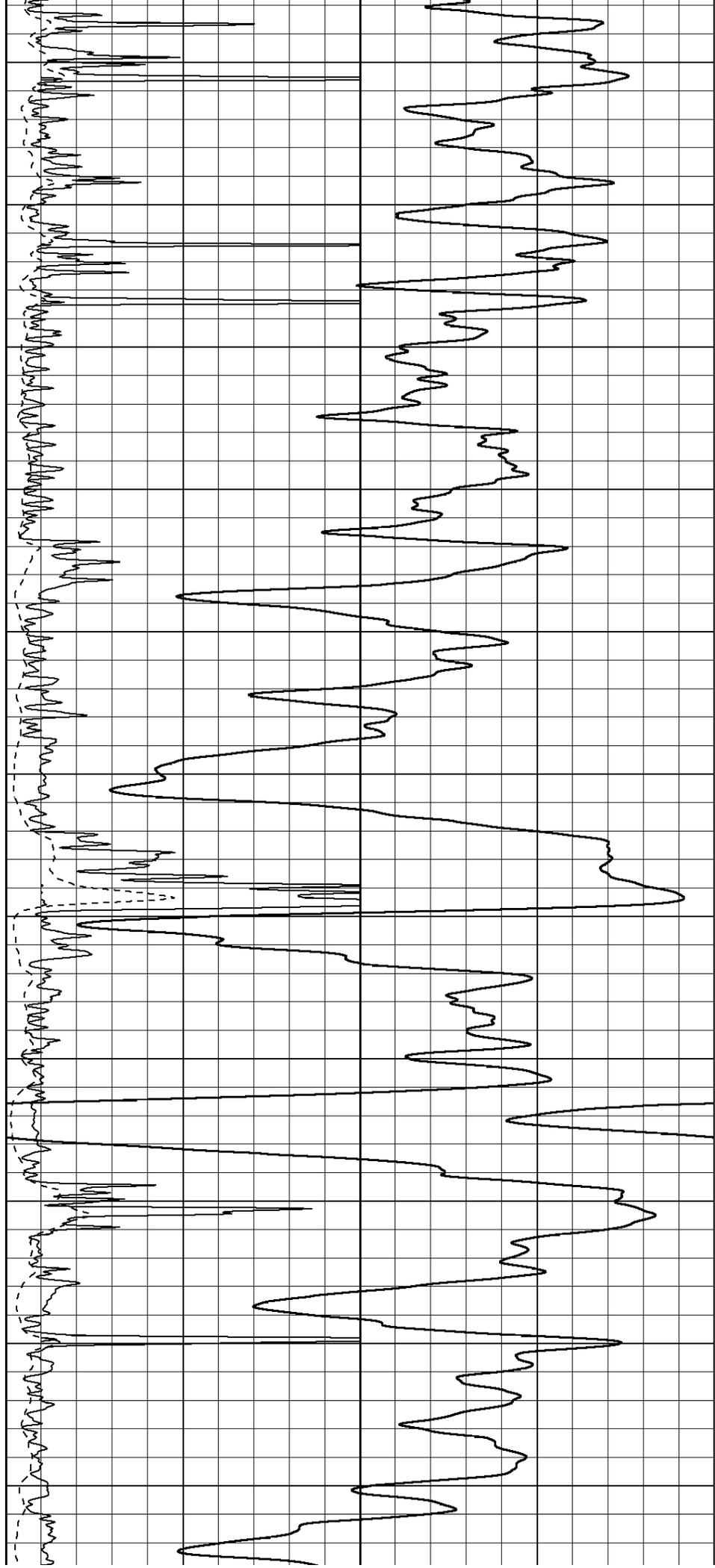
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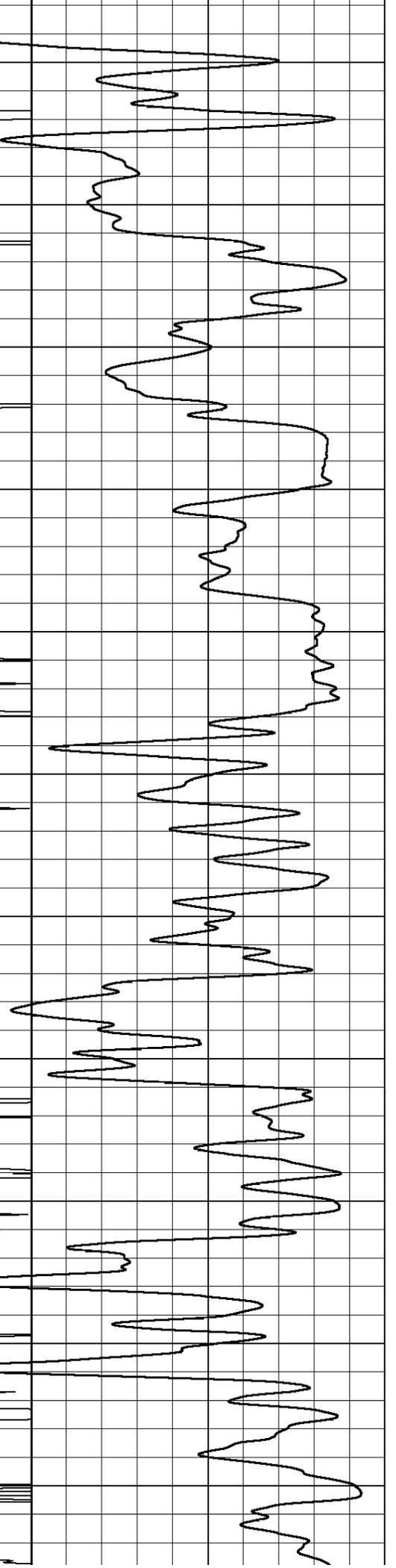
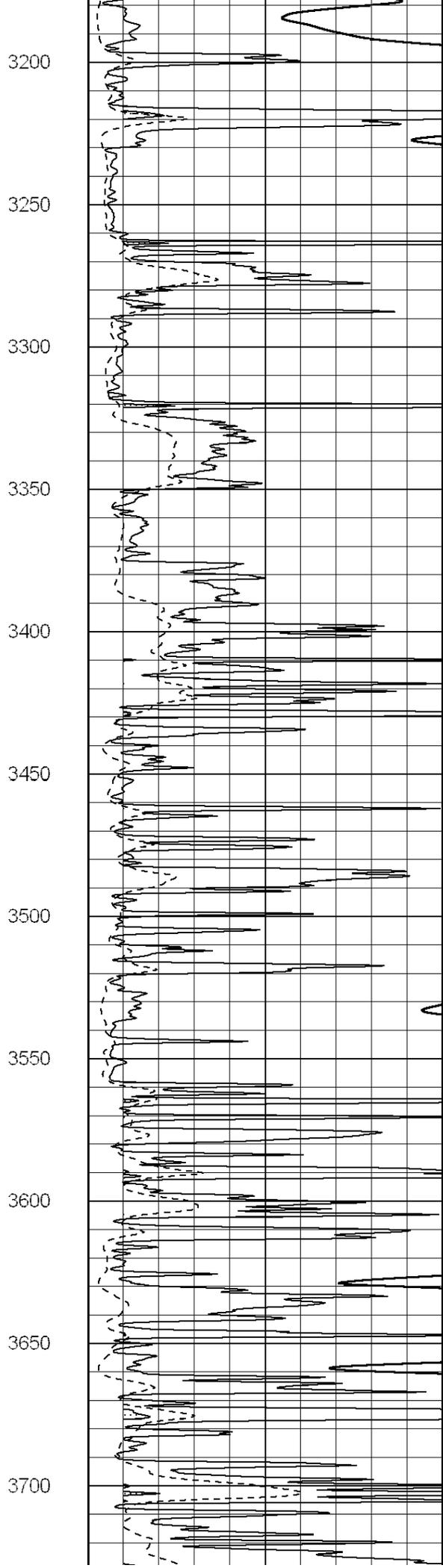
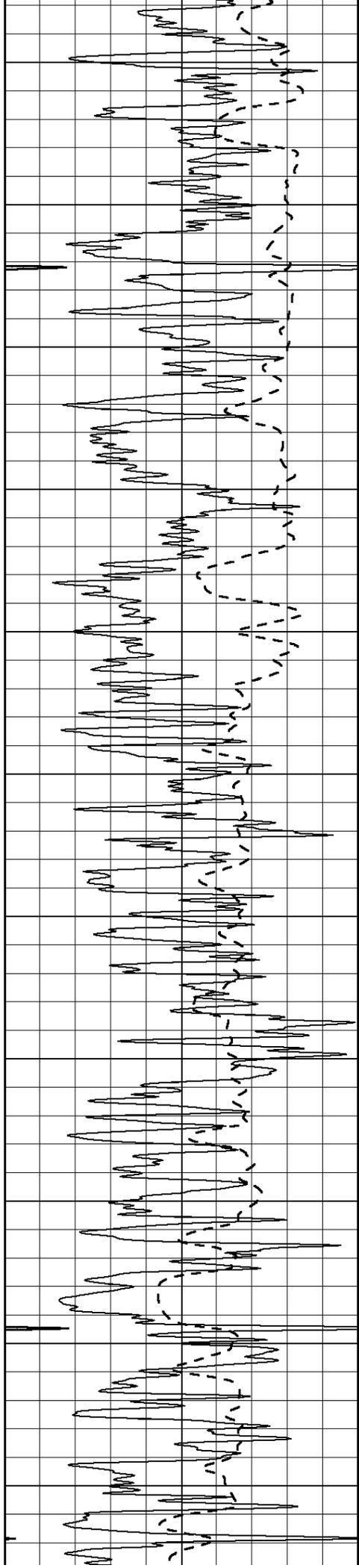
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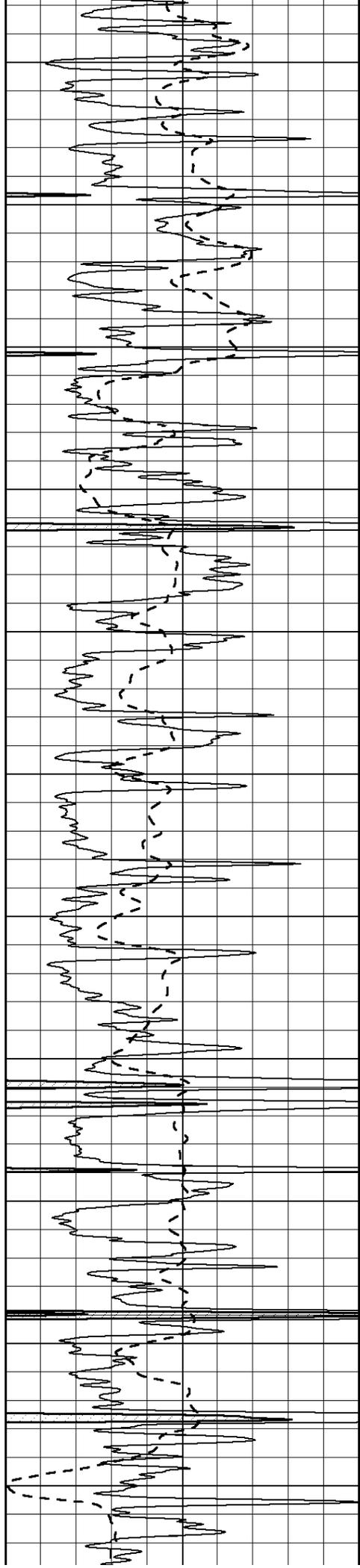
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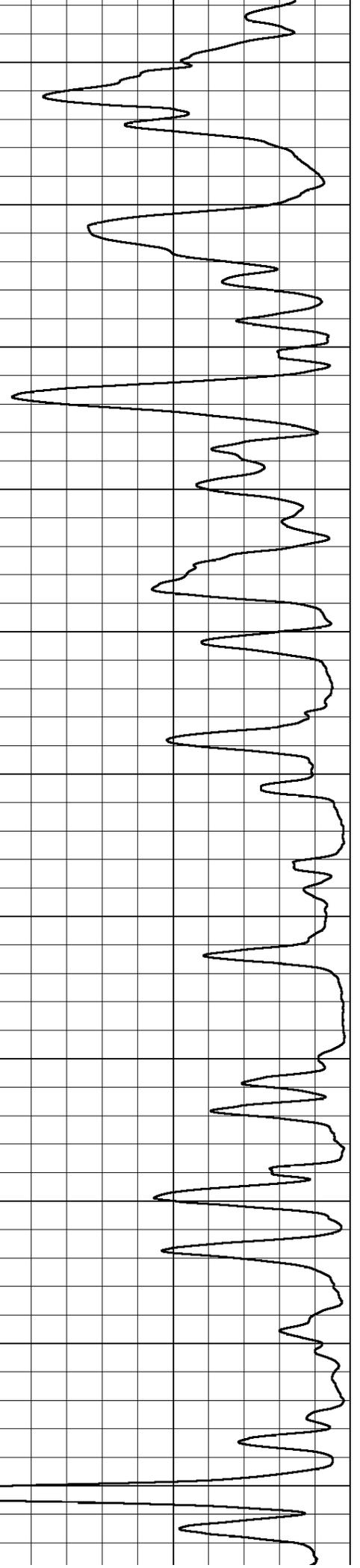
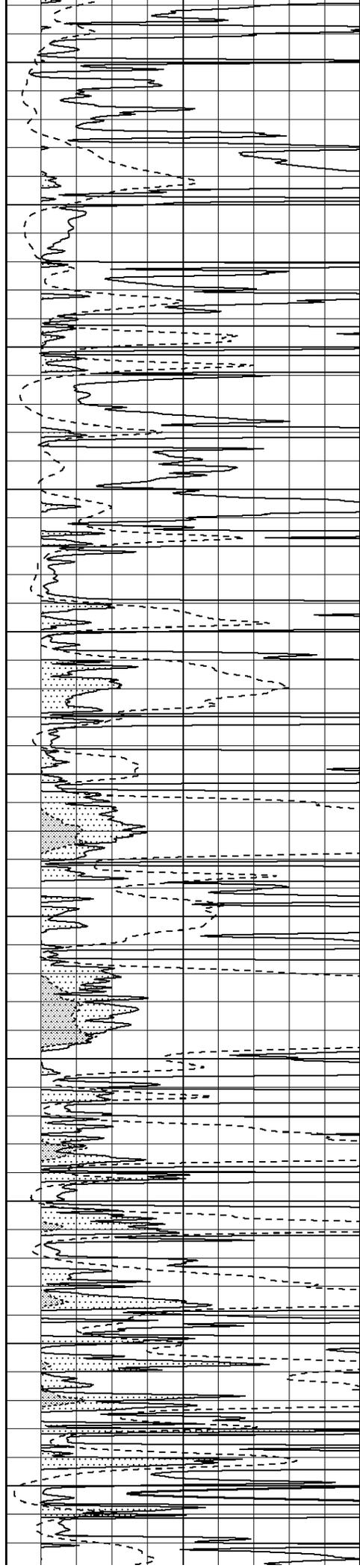
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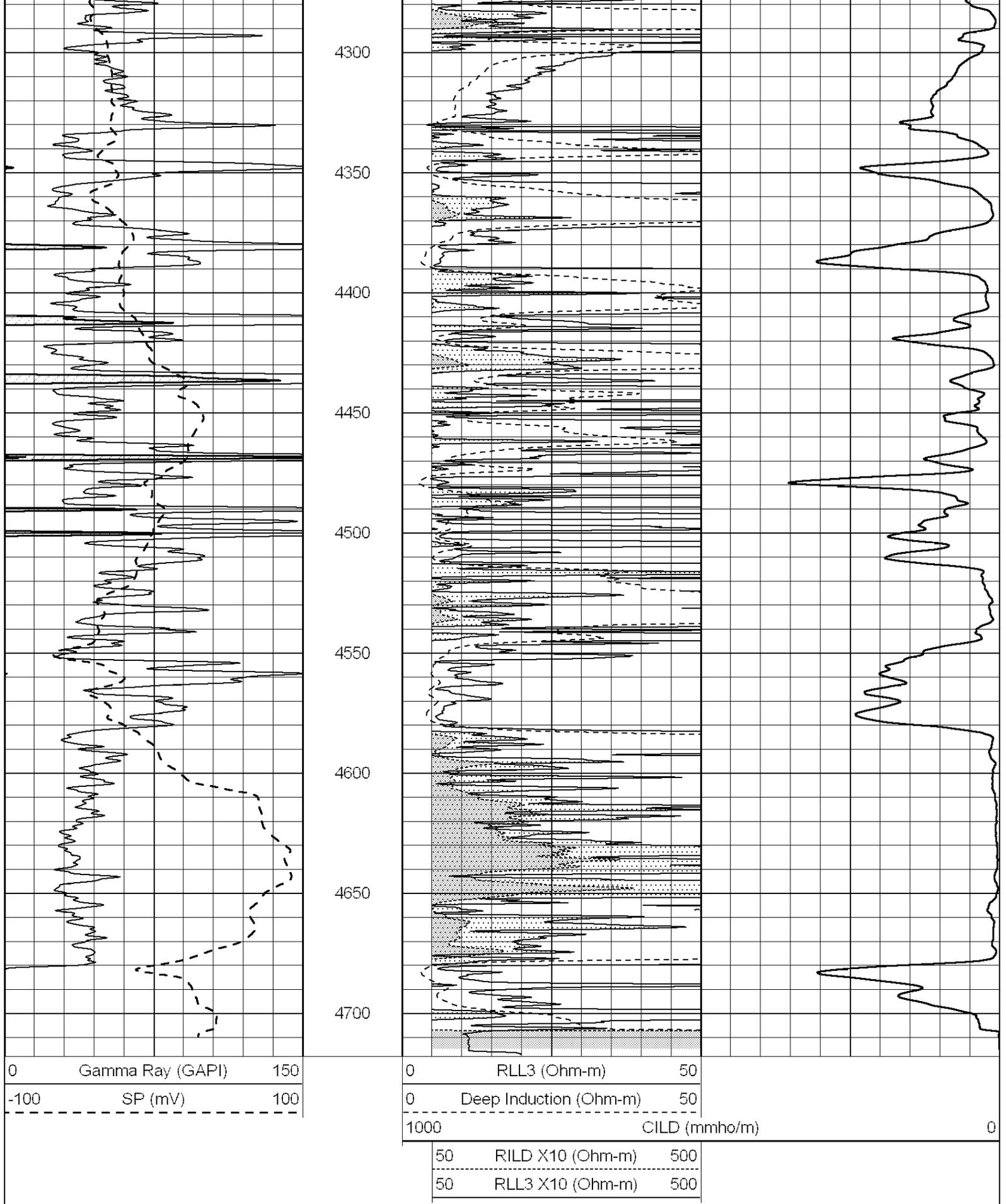






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3800
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4000
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4100
4150
4200
4250



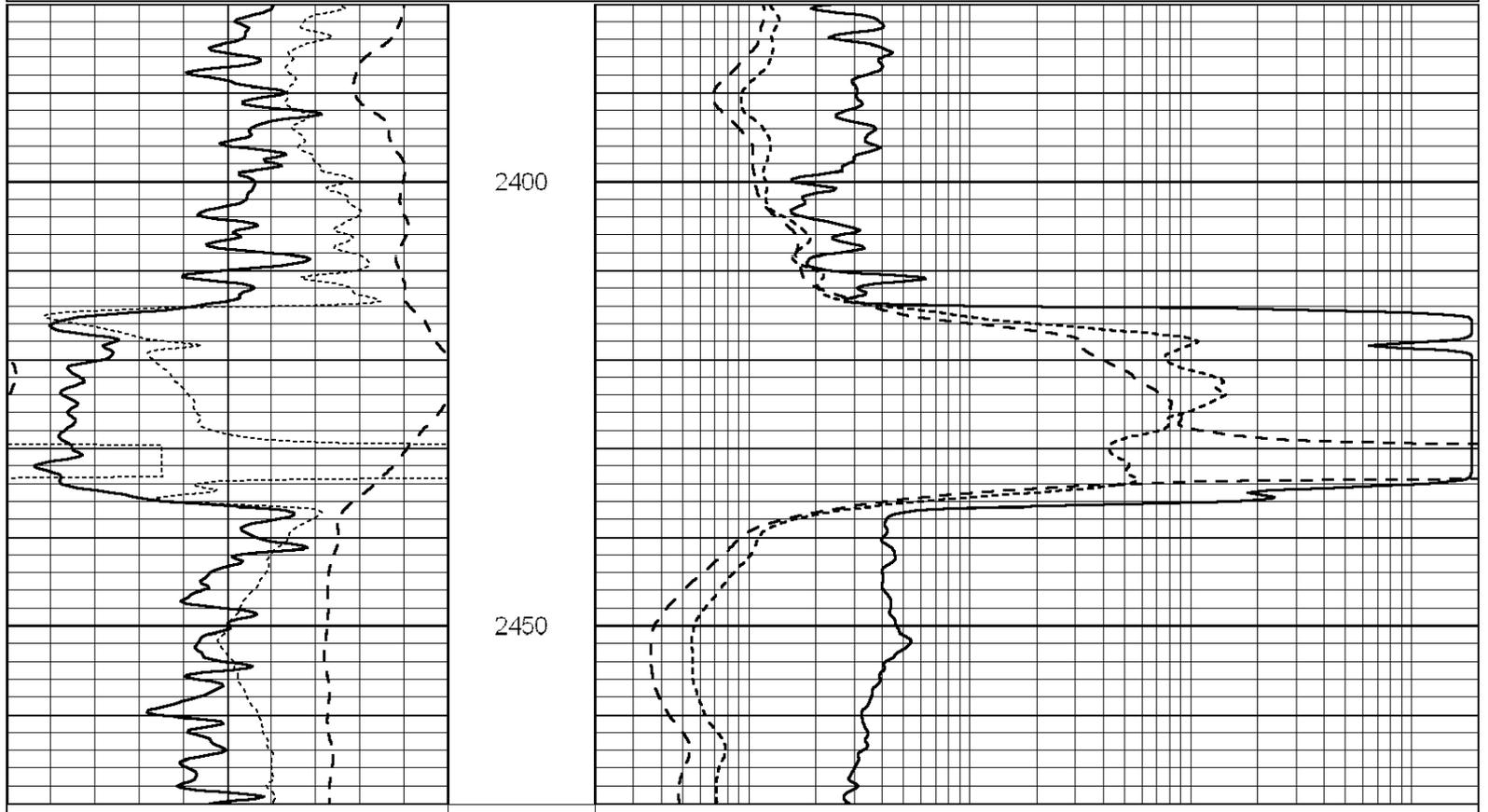


SUPERIOR
Hays,

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Database File: 008664ddn.db
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 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	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



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

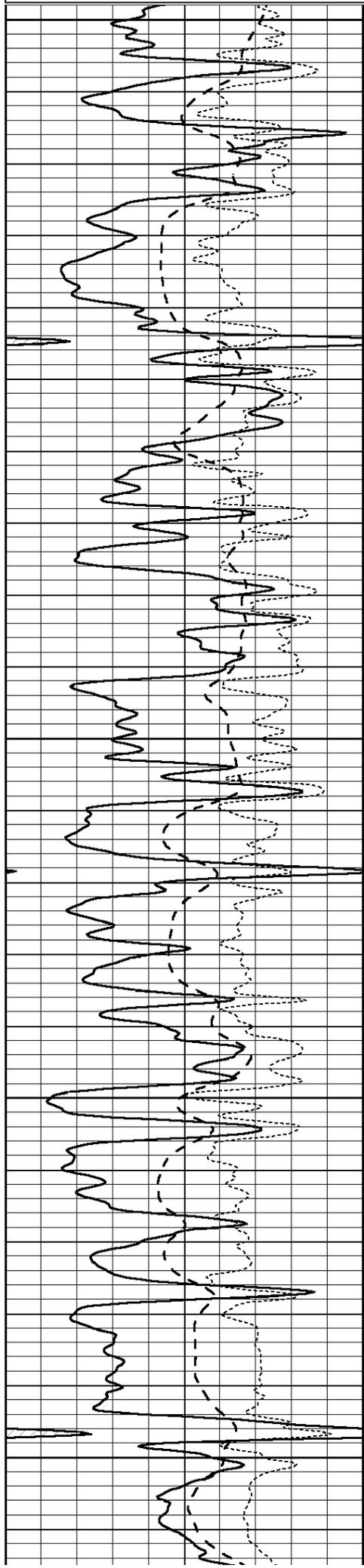


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MAIN SECTION

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-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



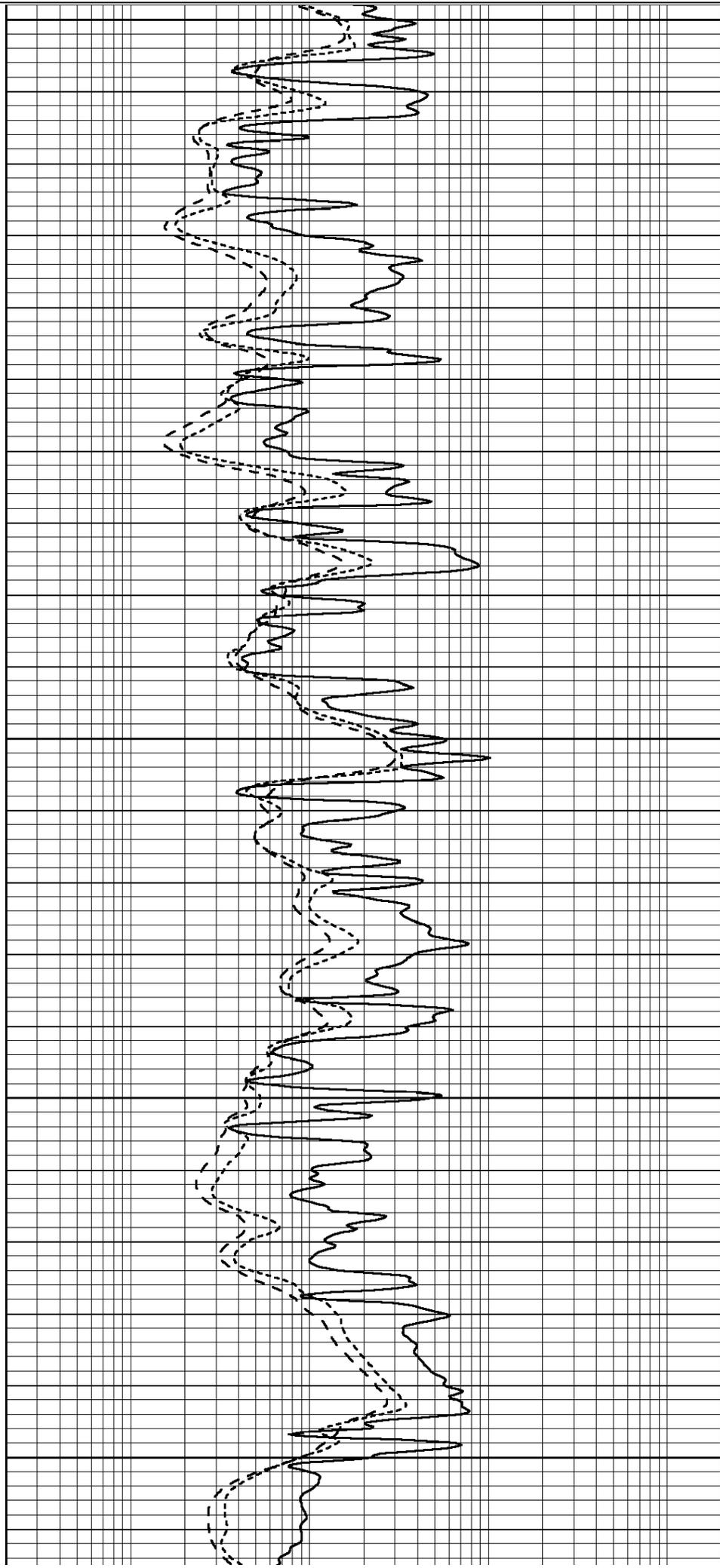
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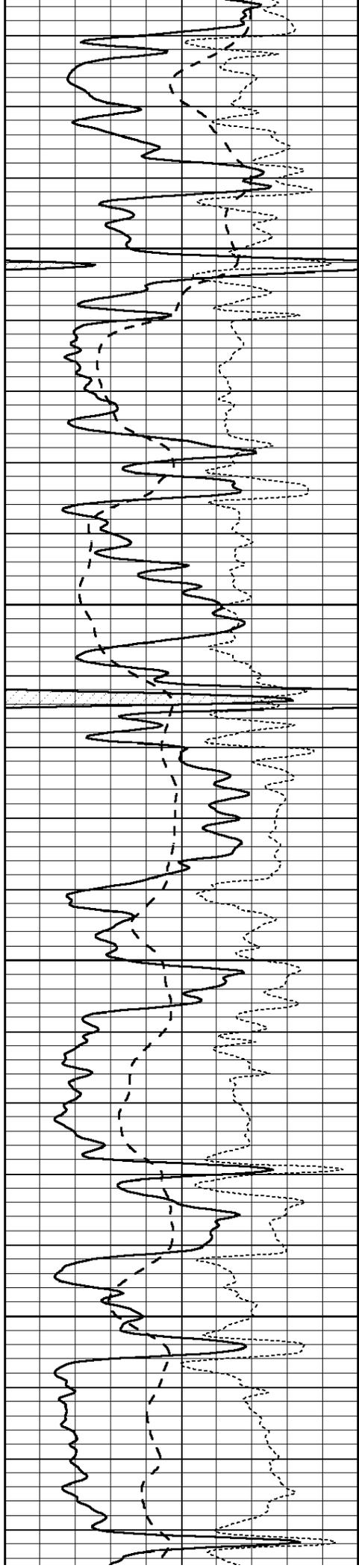
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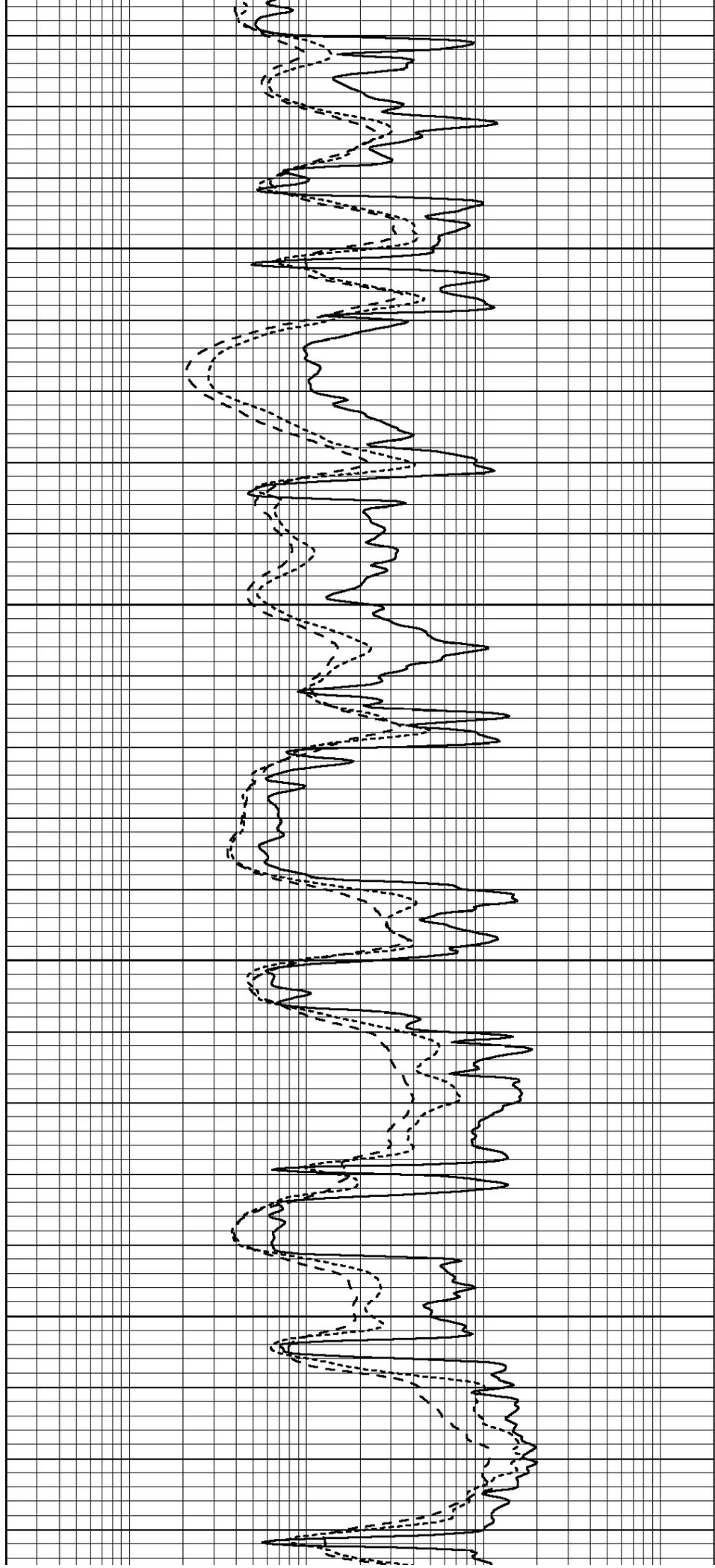


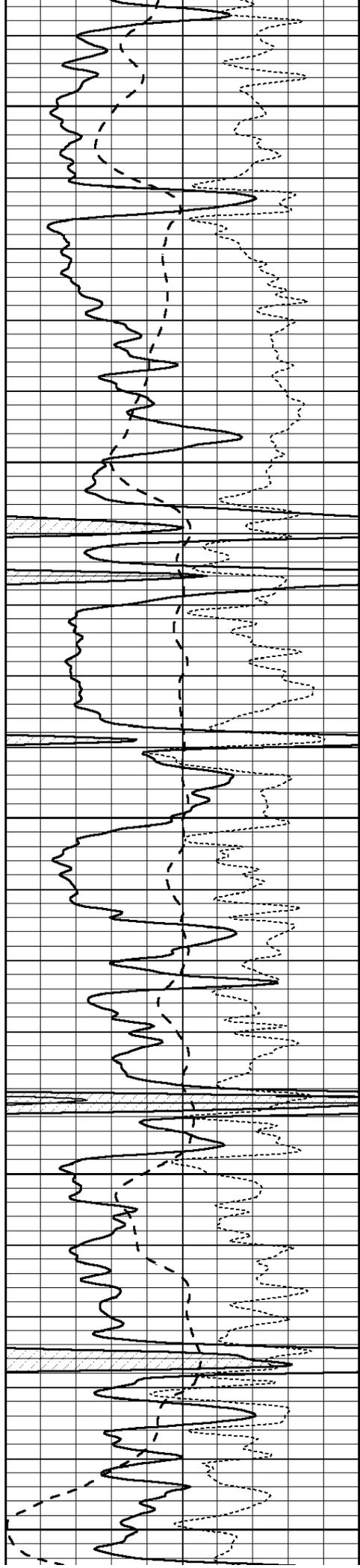
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4000





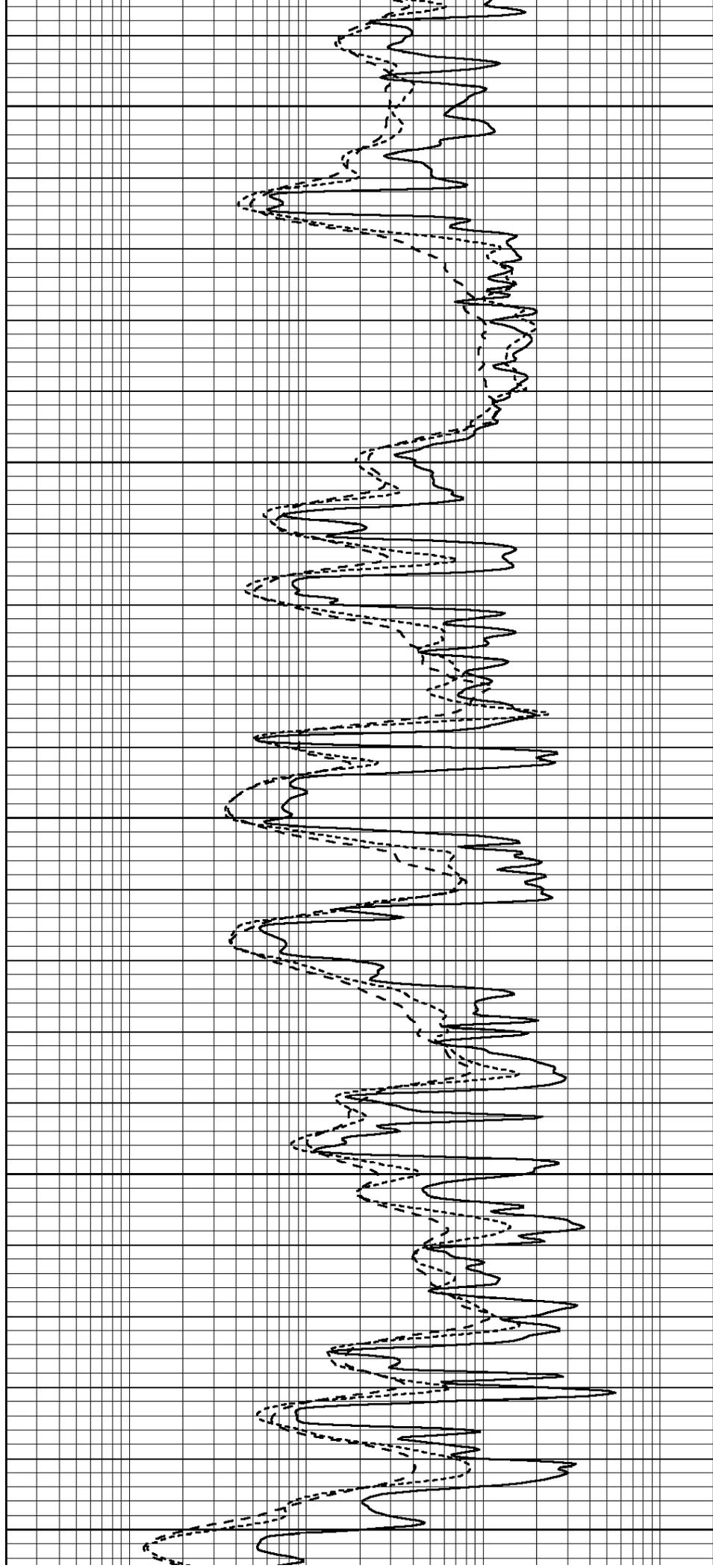
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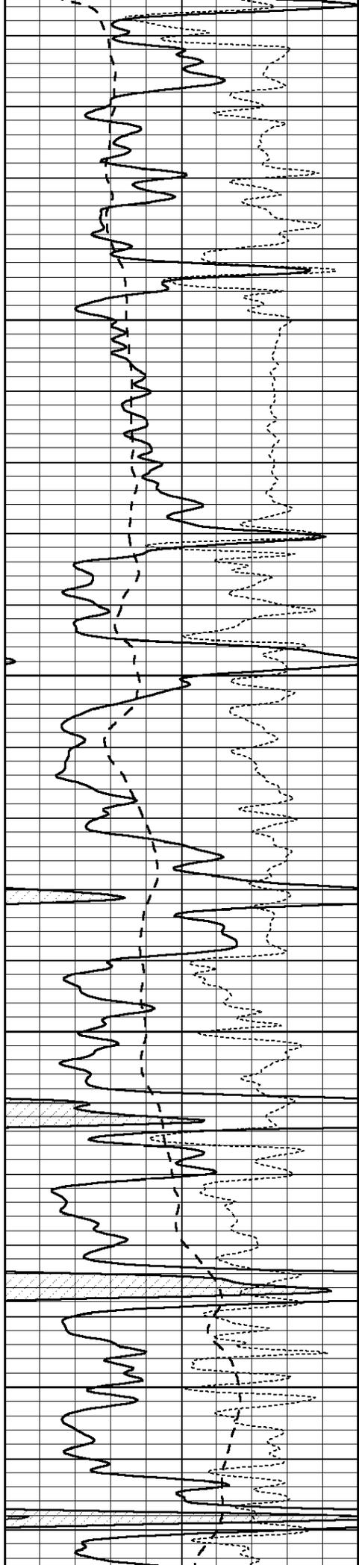
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4250



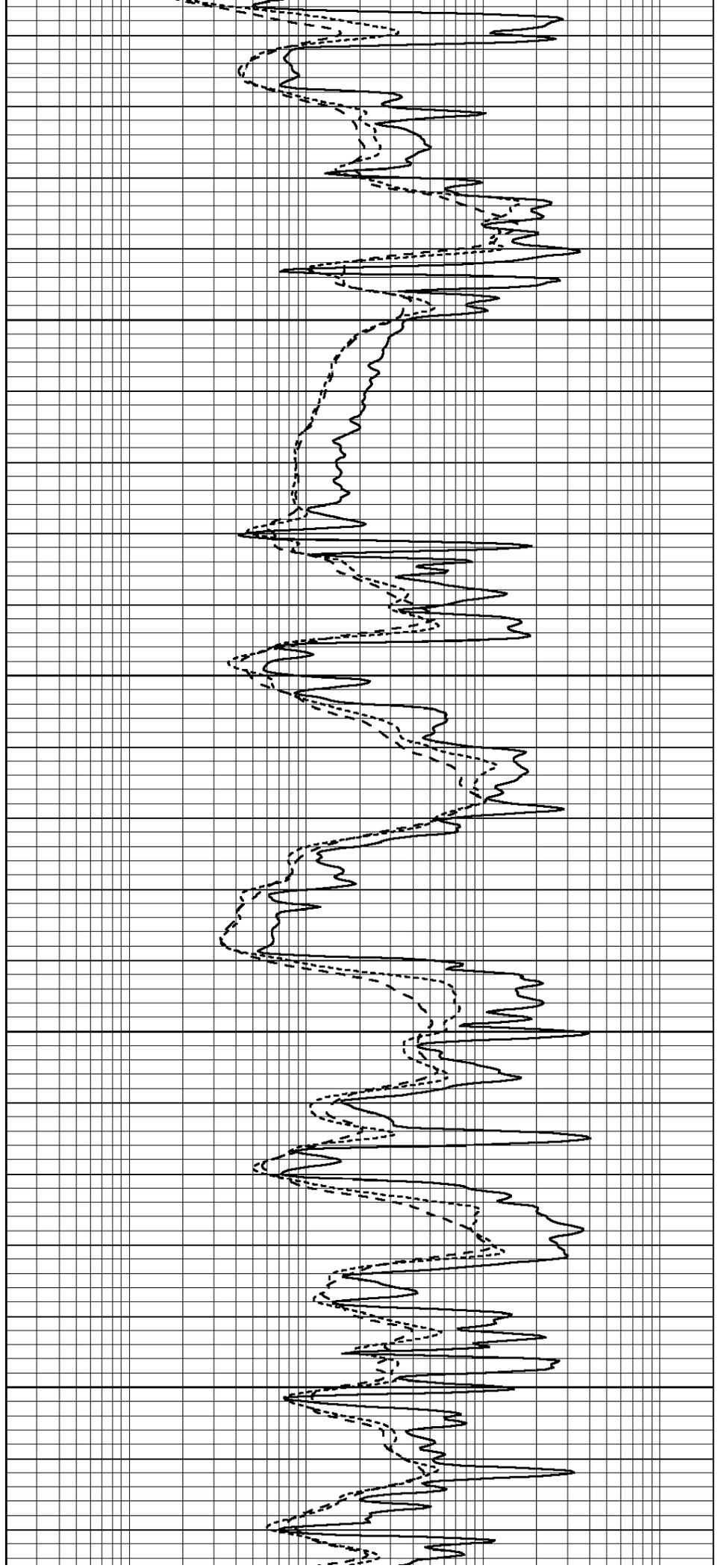


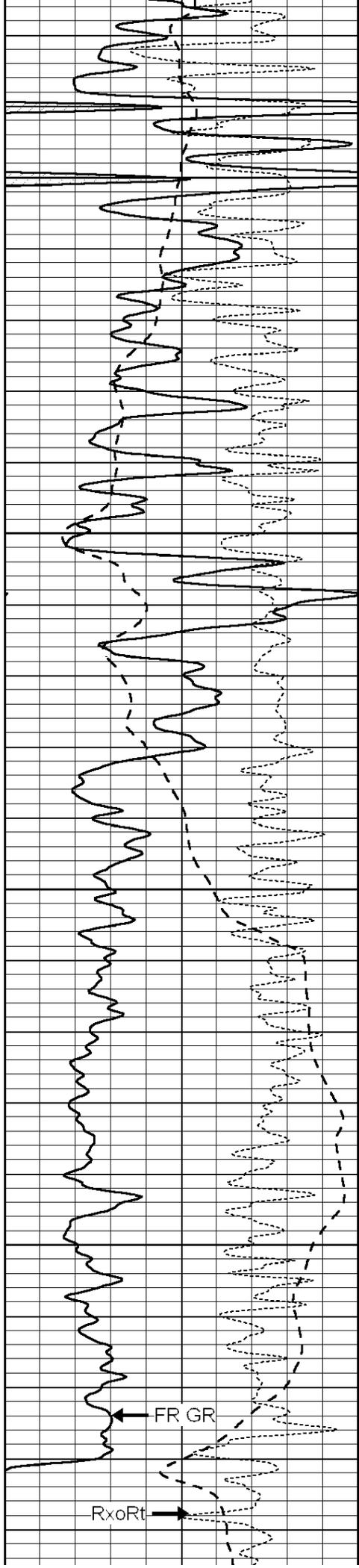
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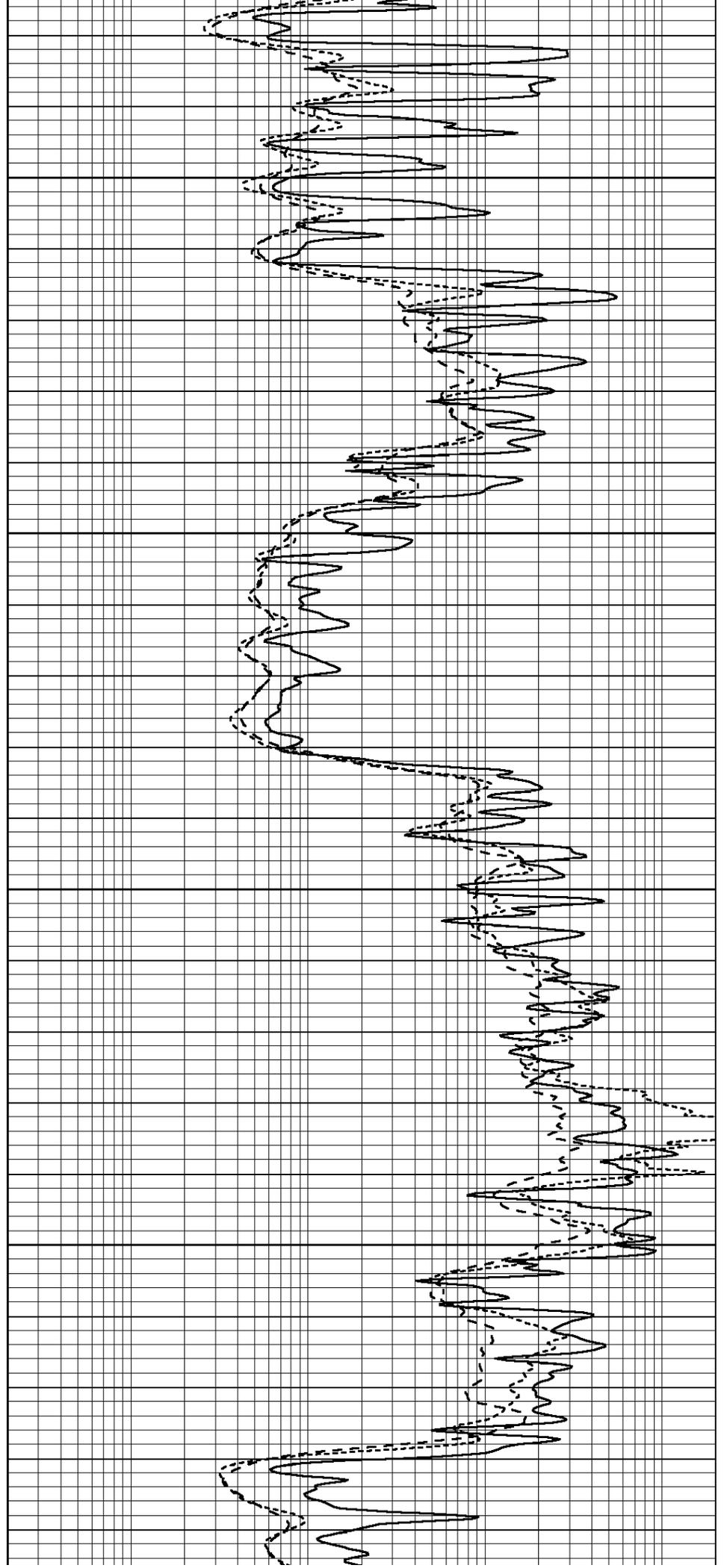


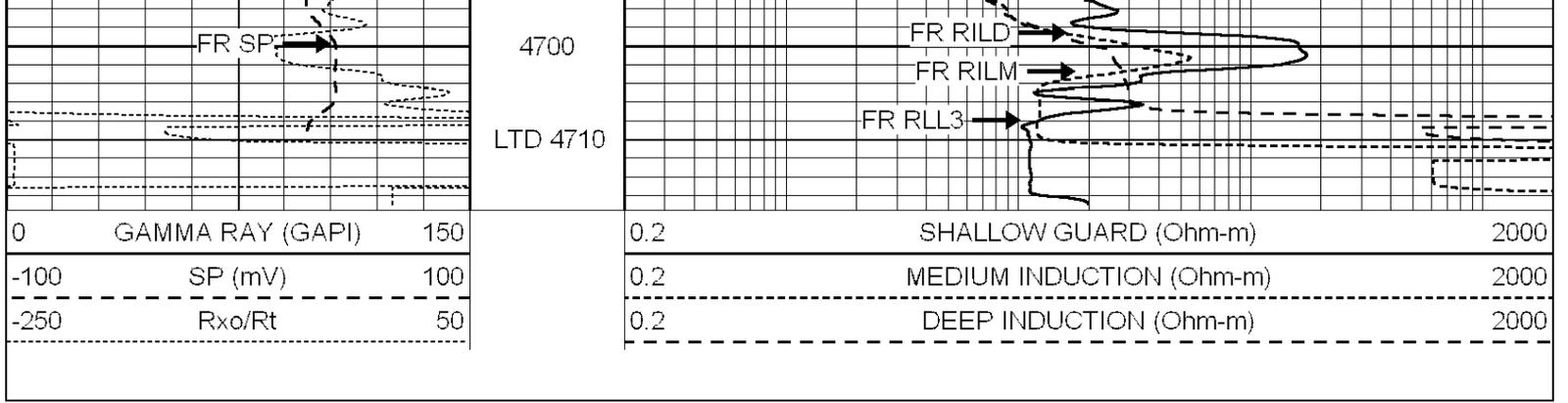
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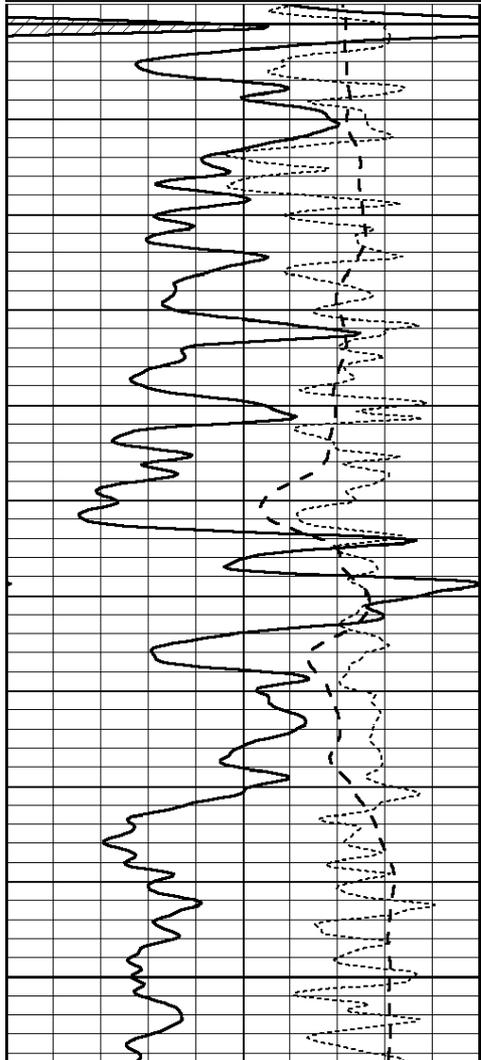
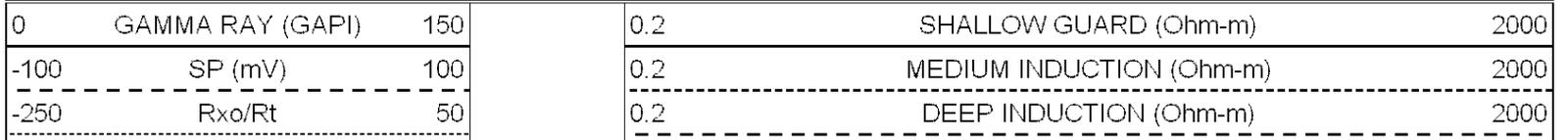




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REPEAT SECTION

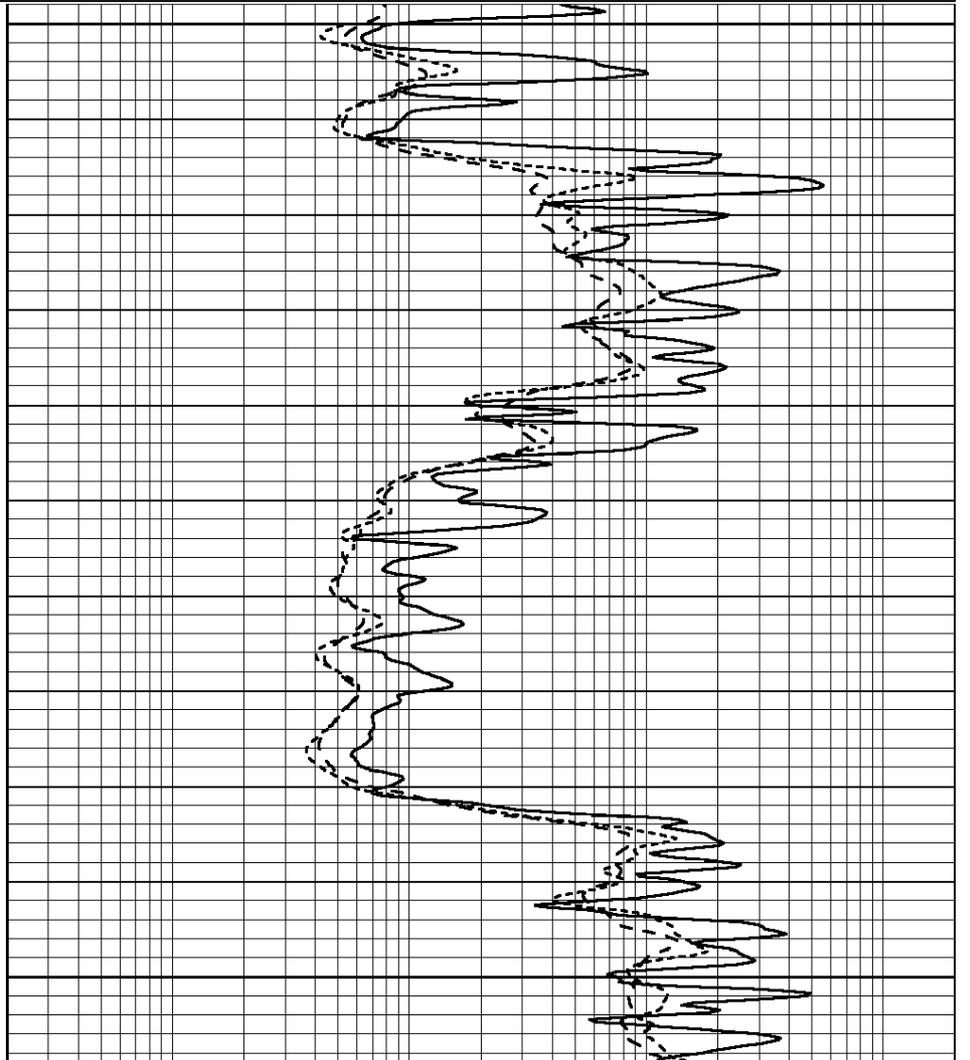
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 Presentation Format: _dil
 Dataset Creation: Fri Jan 06 22:07:17 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



4500

4550

4600



	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		

Compensated Density Calibration Report

Serial-Model:	GEAR4-GEARHART
Source / Verifier:	143 / 143
Master Calibration Performed:	Fri Jan 06 21:06:59 2012

Master Calibration						
	Density		Far Detector	Near Detector		
Magnesium	1.710	g/cc	1015.91	497.51	cps	
Aluminum	2.580	g/cc	227.67	350.20	cps	
	Spine Angle = 76.79		Density/Spine Ratio = 0.566			
	Size		Reading			
Small Ring	8.00	in	2.25	V		
Large Ring	14.00	in	4.37	V		

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