



**DUAL  
INDUCTION  
LOG**

Company RAYDON EXPLORATION  
Well KREHBIEL #1-21  
Field UNNAMED  
County FINNEY  
State KANSAS

Company RAYDON EXPLORATION  
Well KREHBIEL #1-21  
Field UNNAMED  
County FINNEY State KANSAS

Location: API #: 15-055-22550-0000  
1980' FSL & 660' FEL  
SEC 21 TWP 21S RGE 33W  
Permanent Datum GROUND LEVEL Elevation 2909  
Log Measured From KELLY BUSHING 9' A.G.L  
Drilling Measured From KELLY BUSHING  
Elevation  
K.B. 2918  
D.F. 2916  
G.L. 2909

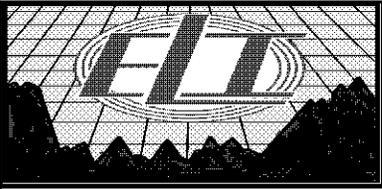
Date	2/13/22	
Run Number	ONE	
Depth Driller	5100	
Depth Logger	5100	
Bottom Logged Interval	5098	
Top Log Interval	00	
Casing Driller	8 5/8" @ 1810	
Casing Logger	1810	
Bit Size	7 7/8	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000
Density / Viscosity	9.2/65	
pH / Fluid Loss	10.5/6.0	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	1.0@60F	
Rmt @ Meas. Temp	.75@60F	
Rmc @ Meas. Temp	1.2@60F	
Source of Rmf / Rmc	MEASUREMENT	
Rm @ BHT	.47@127	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	////	
Maximum Recorded Temperature	126F	
Equipment Number	3802	
Location	HAYS, KANSAS	
Recorded By	JASON CAPPELLUCCI	TJ DREILING
Witnessed By	ED GRIEVES	

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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 ELI WIRELINE SERVICES, HAYS, KS. ( 785 ) 628-6395  
DIRECTIONS  
-SCOTT CITY KANSAS SOUTH ON HIGHWAY 83 TO GANO ROAD,  
-WEST 3 MILES TO SHERLOCK ROAD, -1 1/4 MILE NORTH,  
-WEST INTO

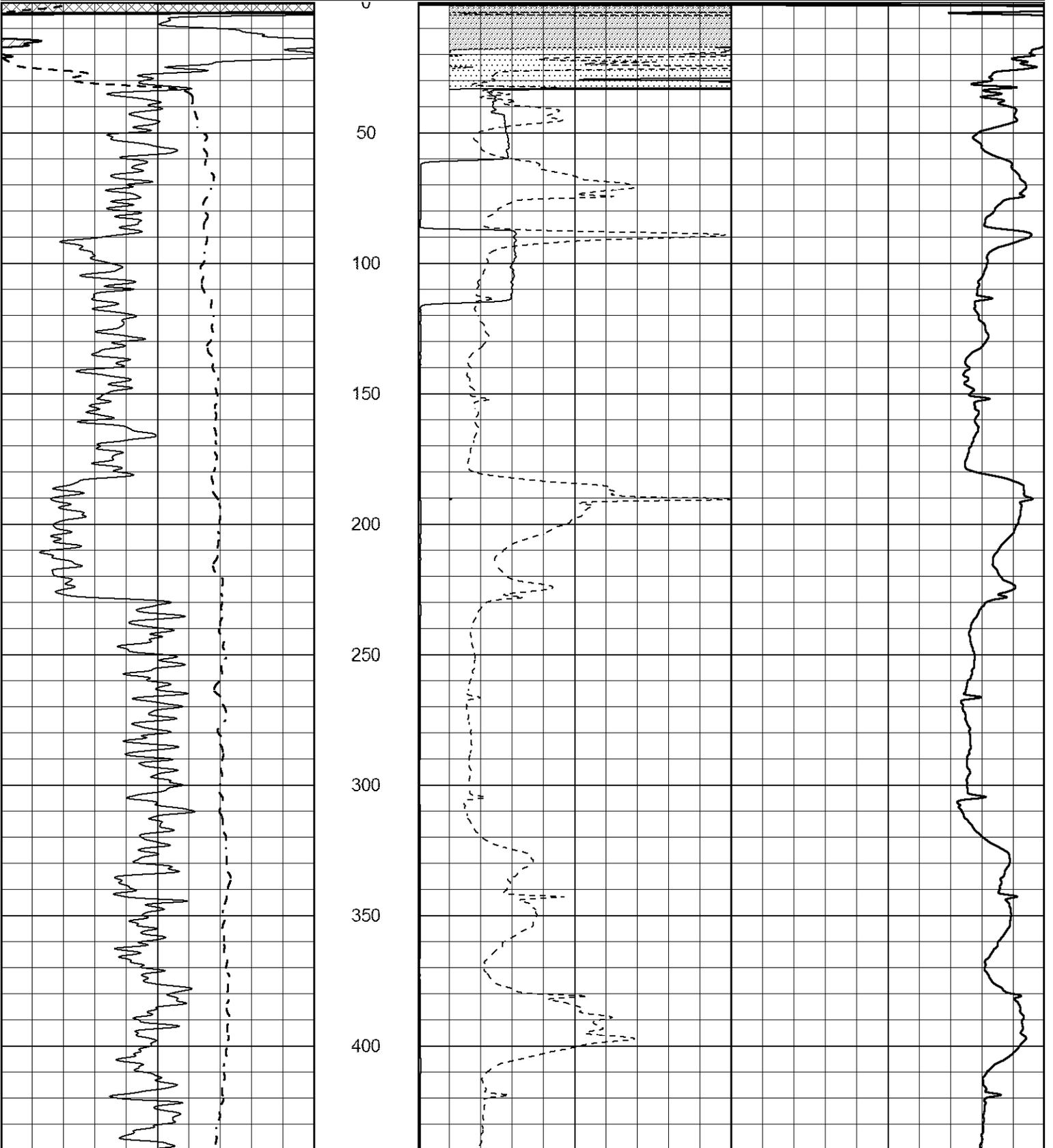


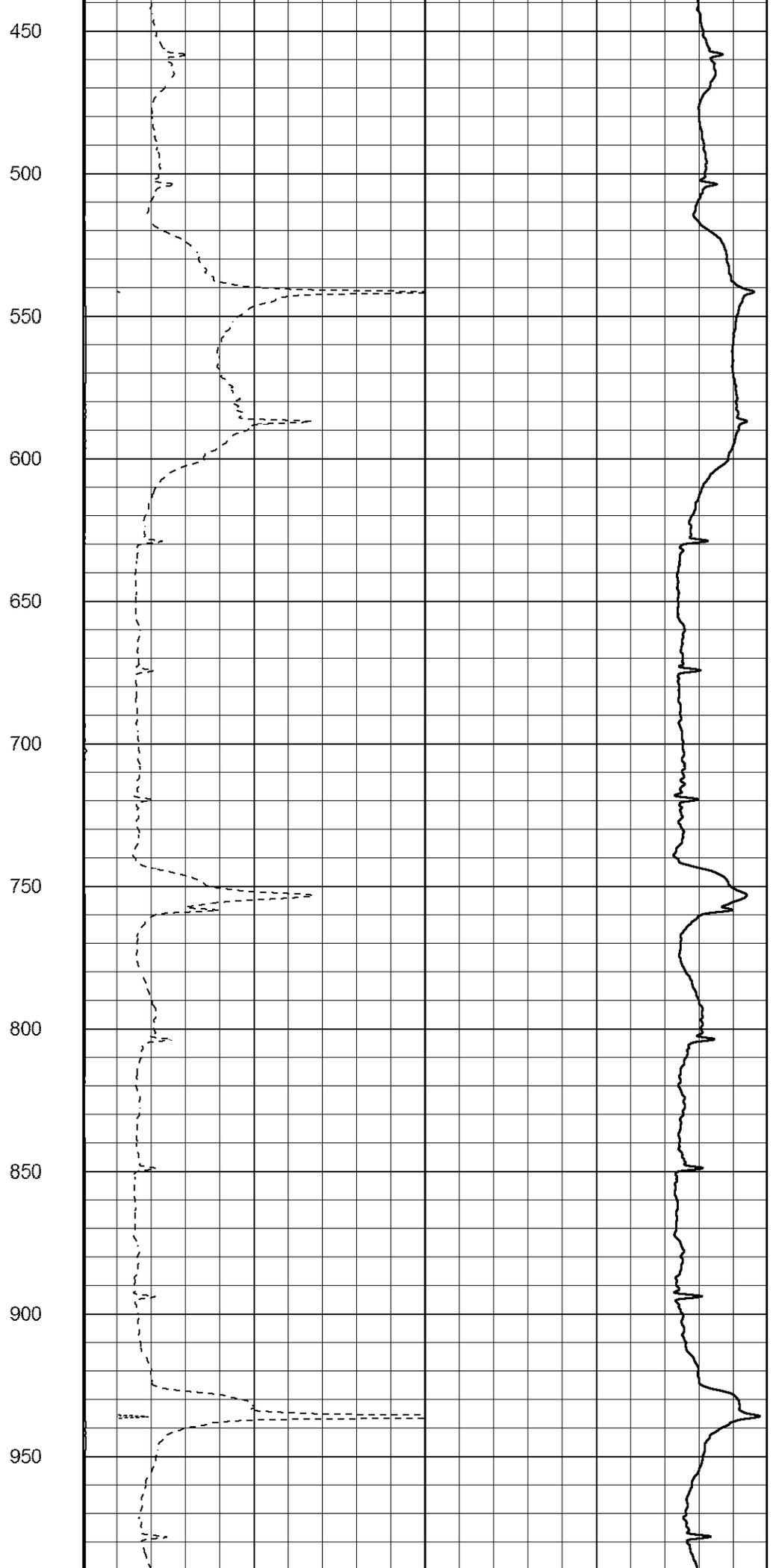
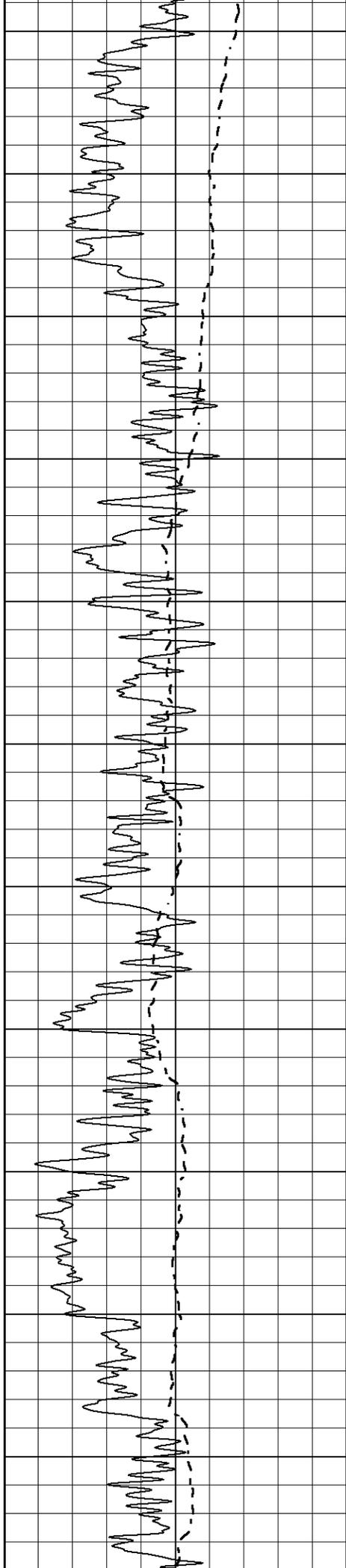
**MAIN SECTION**

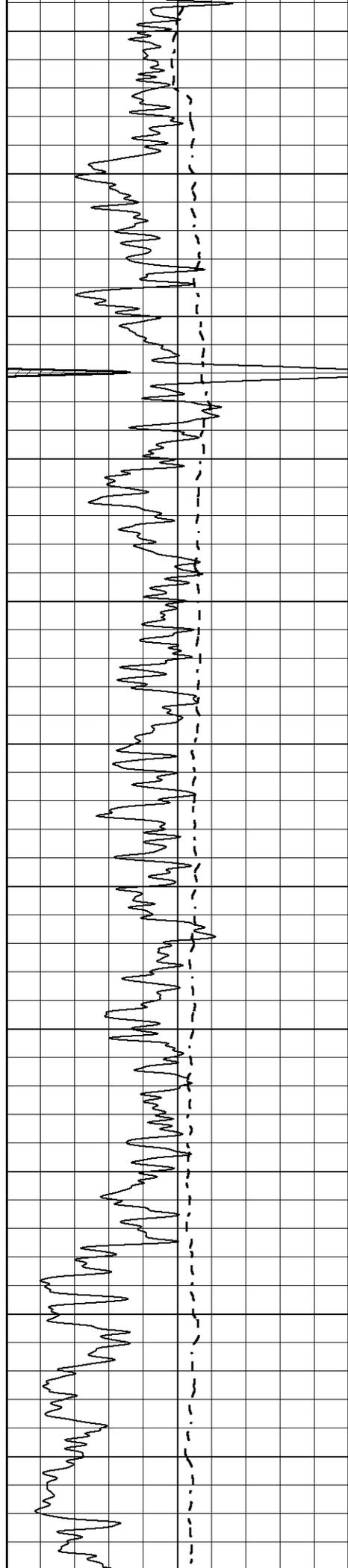
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 Presentation Format \_dil2  
 Dataset Creation Mon Feb 14 02:31:30 2022  
 Charted by Depth in Feet scaled 1:600

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

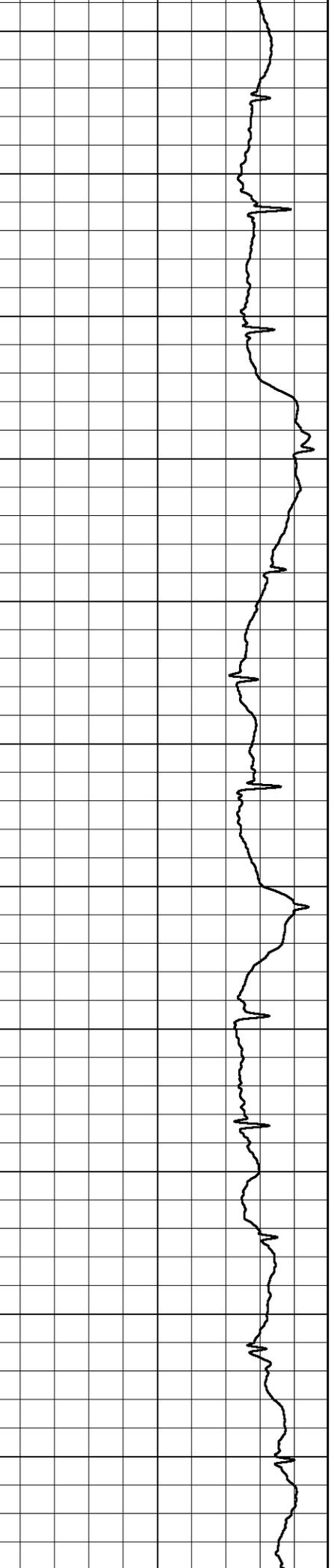
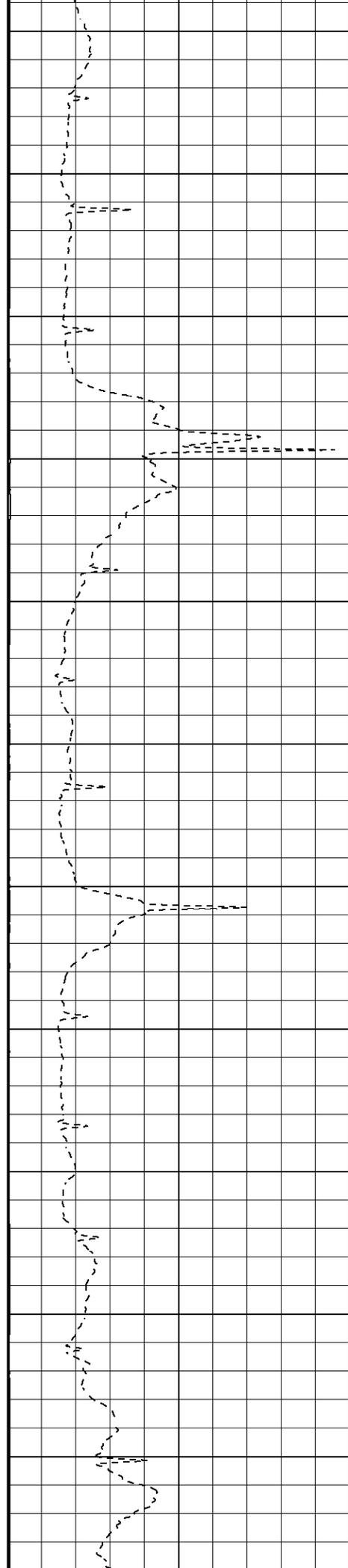
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 0 RLL3 (Ohm-m) 50  
 0 Deep Induction (Ohm-m) 50  
 50 RILD X10 (Ohm-m) 500  
 50 RLL3 X10 (Ohm-m) 500

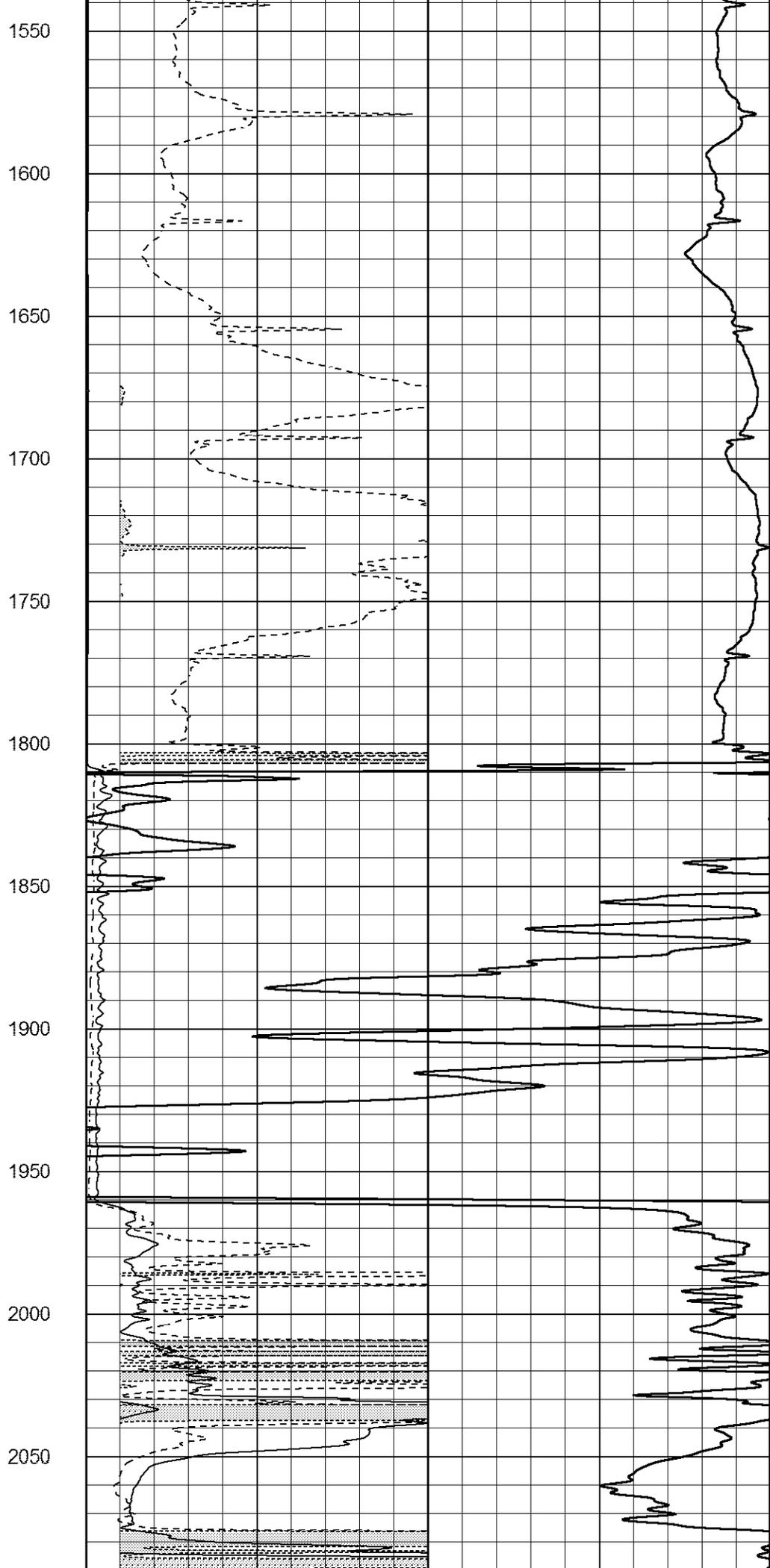
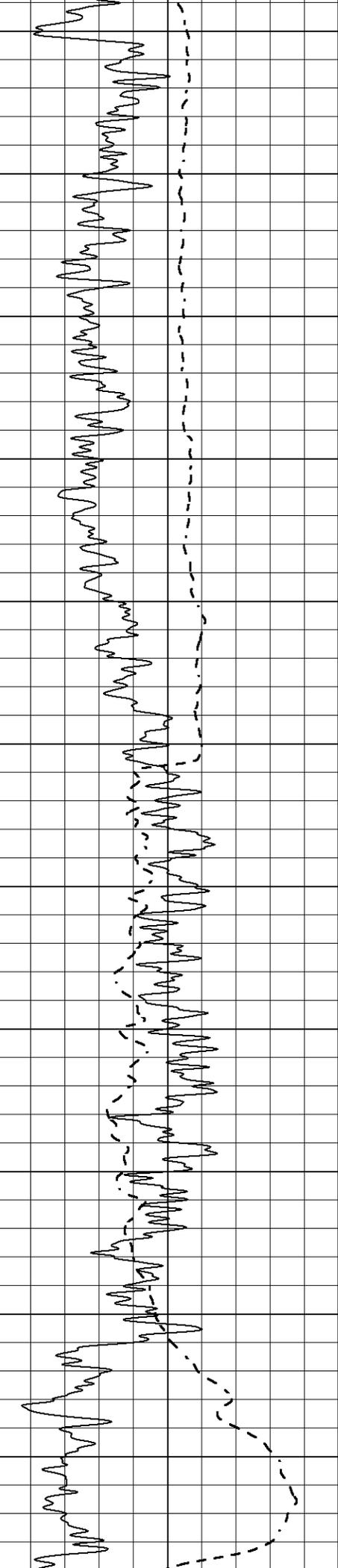




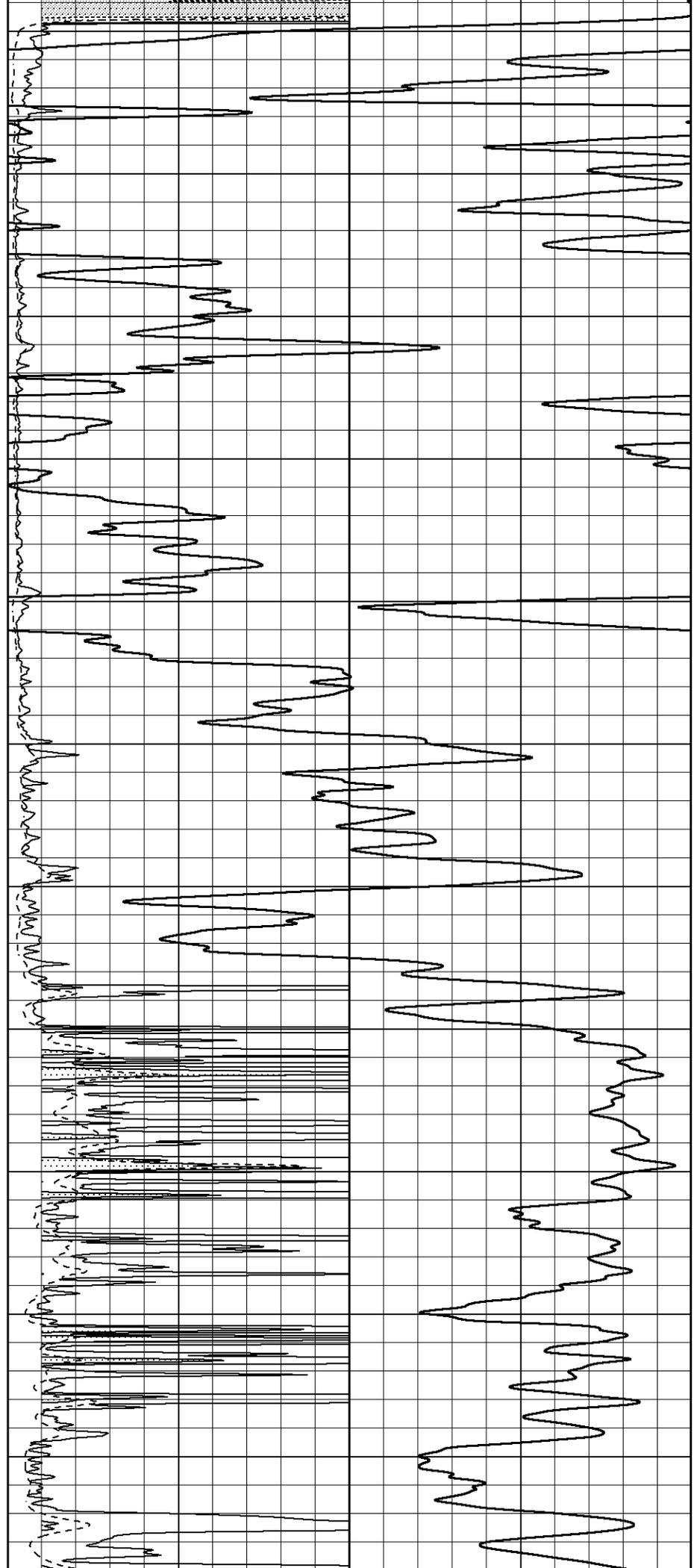


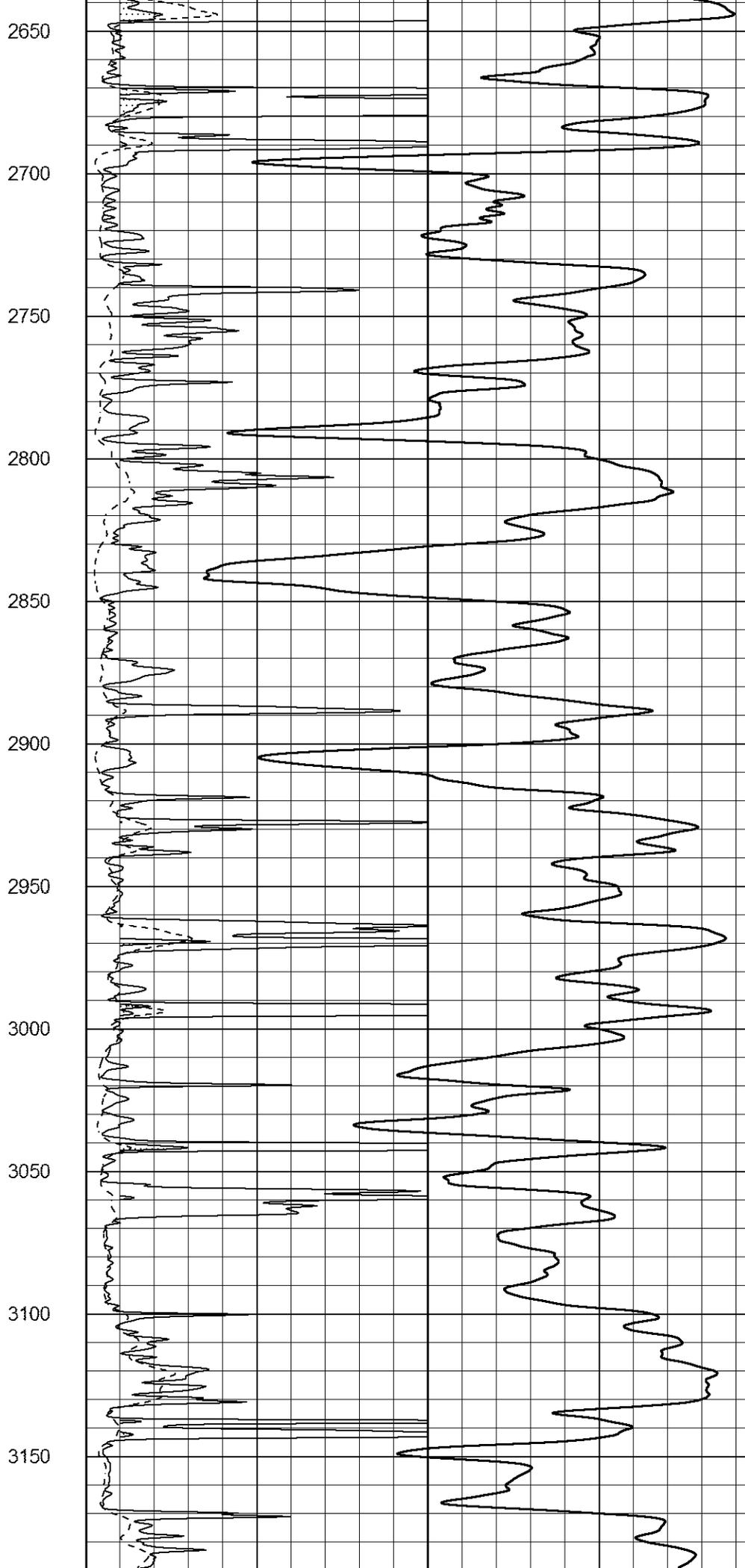
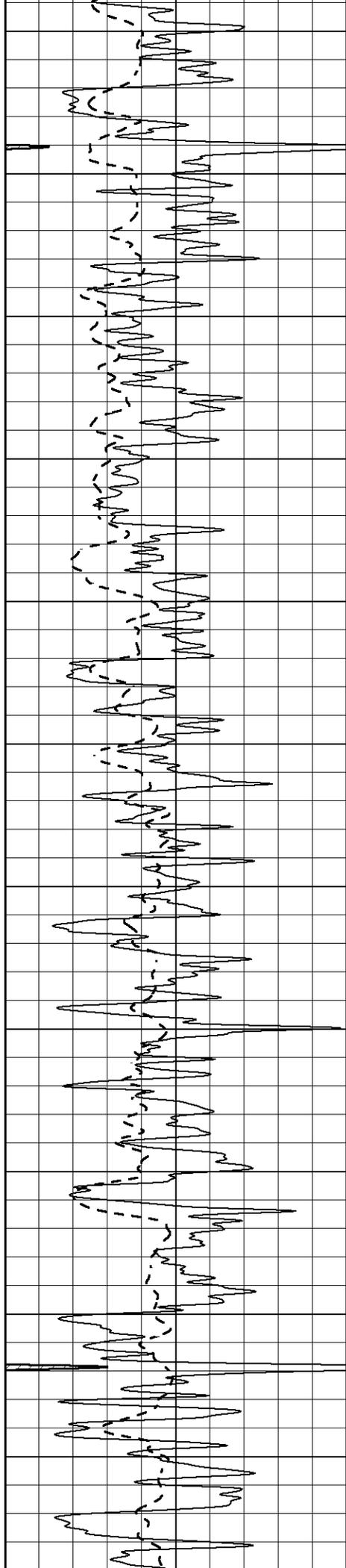
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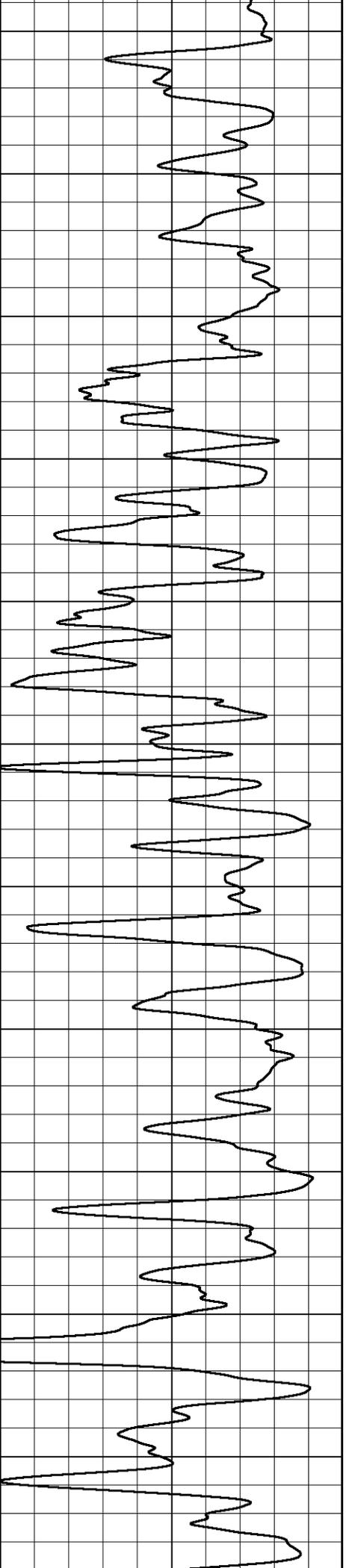
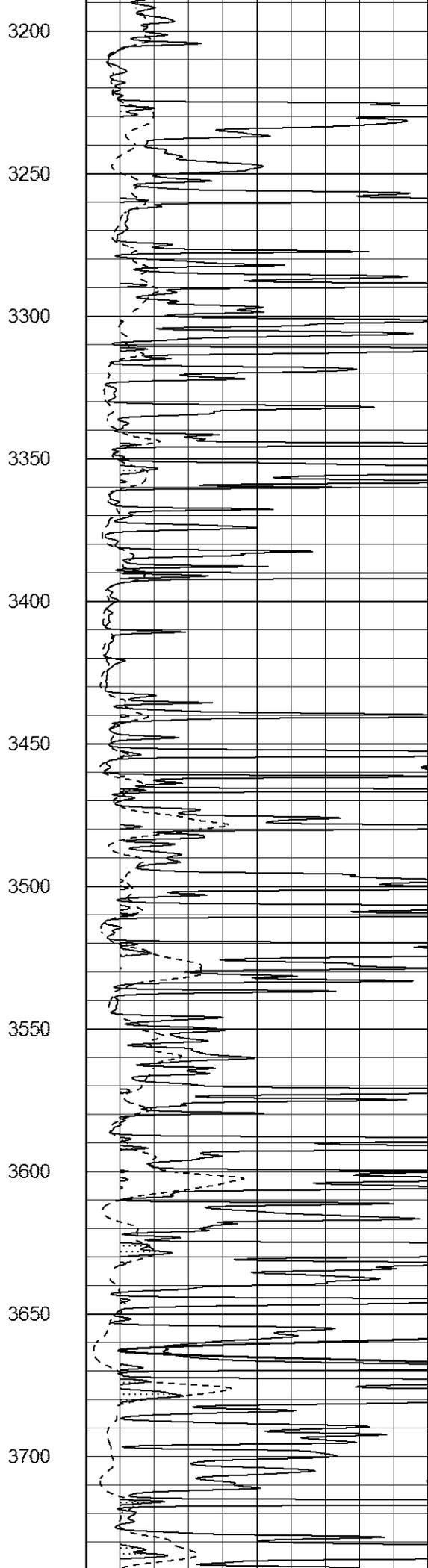
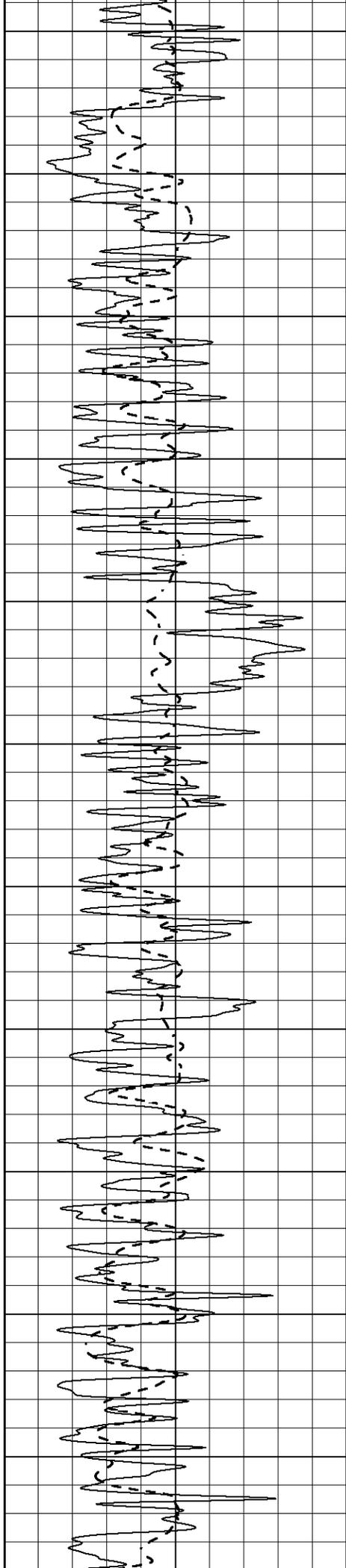


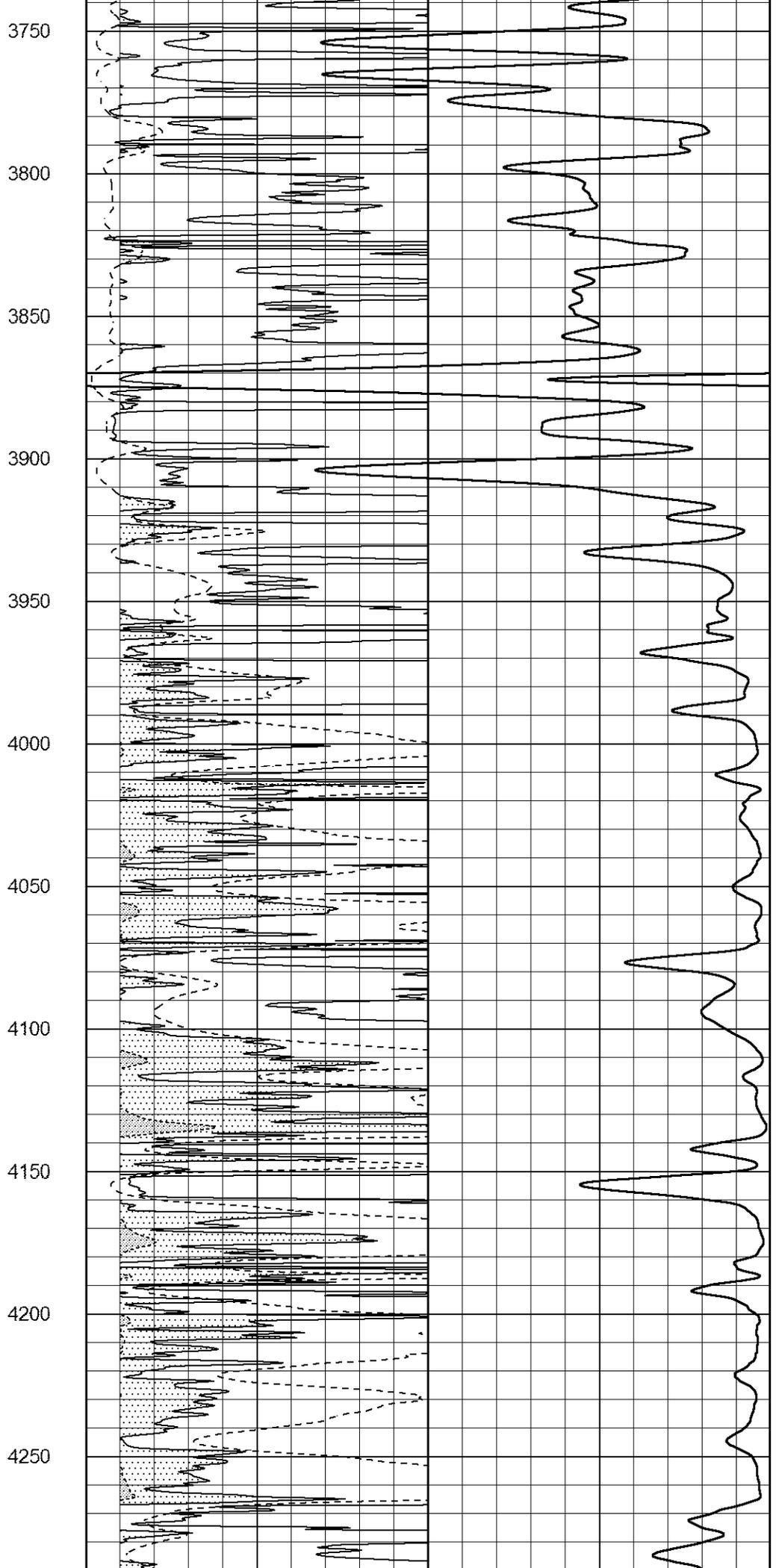
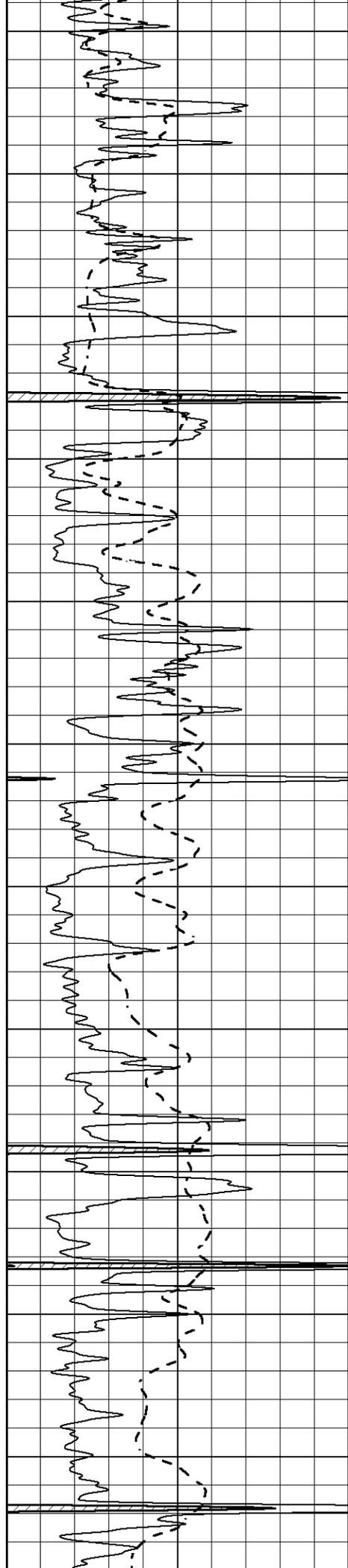


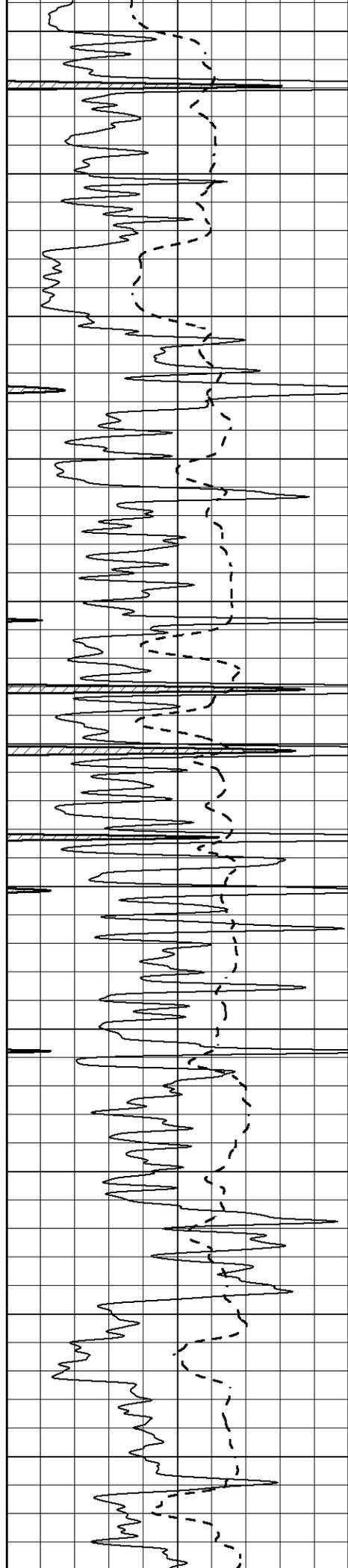
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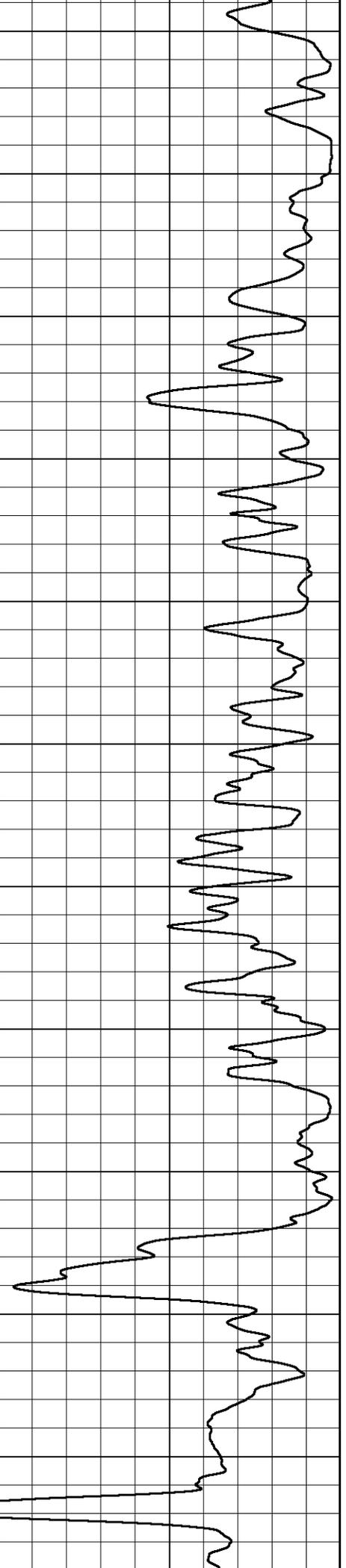
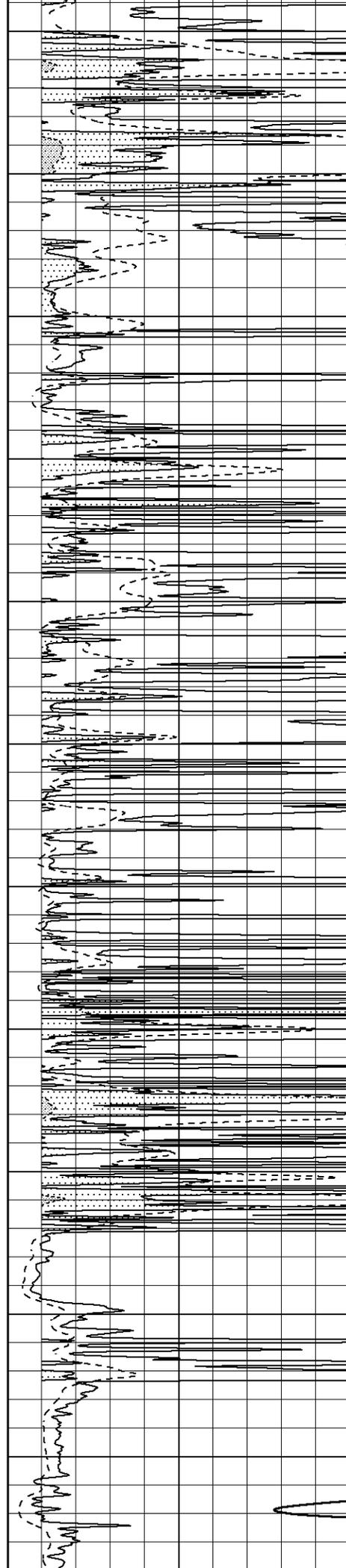


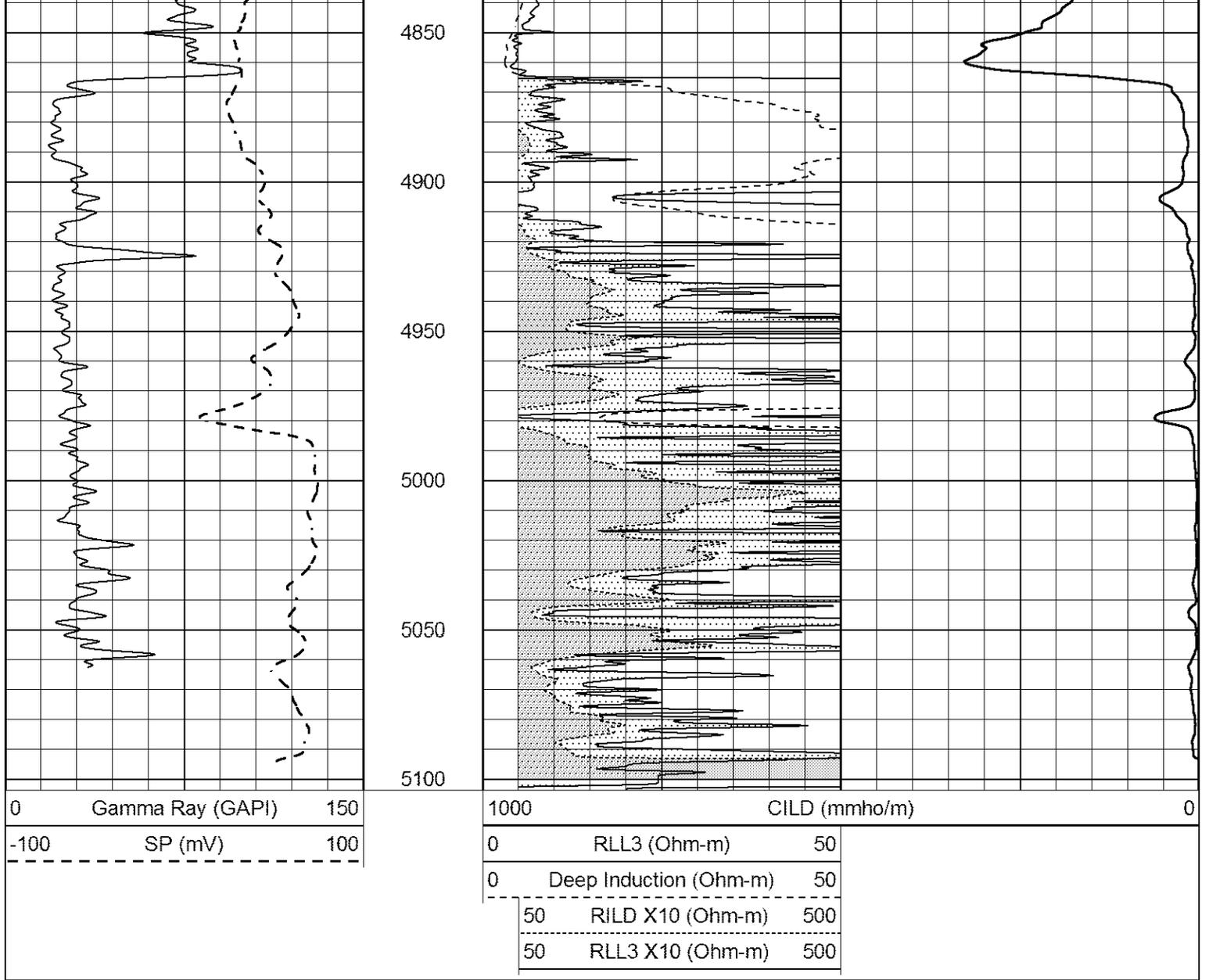






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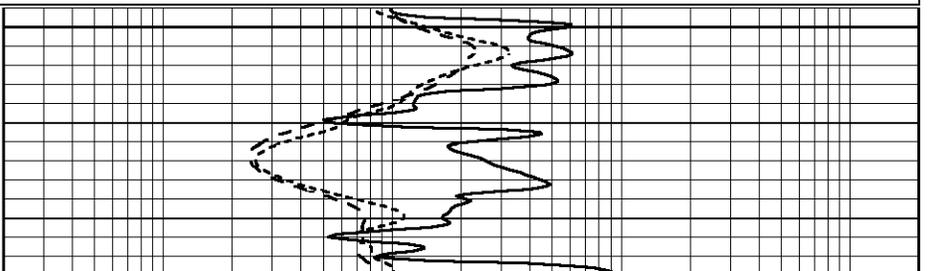
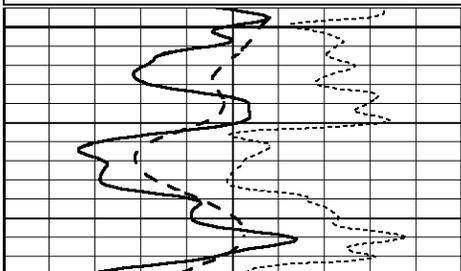


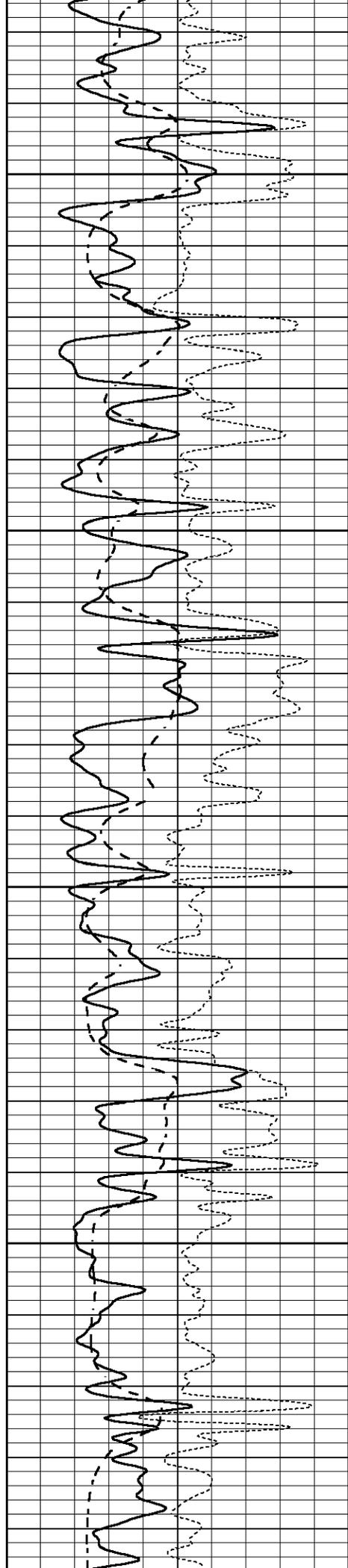
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Database File 6239pe.db  
 Dataset Pathname pass4.1  
 Presentation Format \_dil  
 Dataset Creation Mon Feb 14 01:18:28 2022  
 Charted by Depth in Feet scaled 1:240

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

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



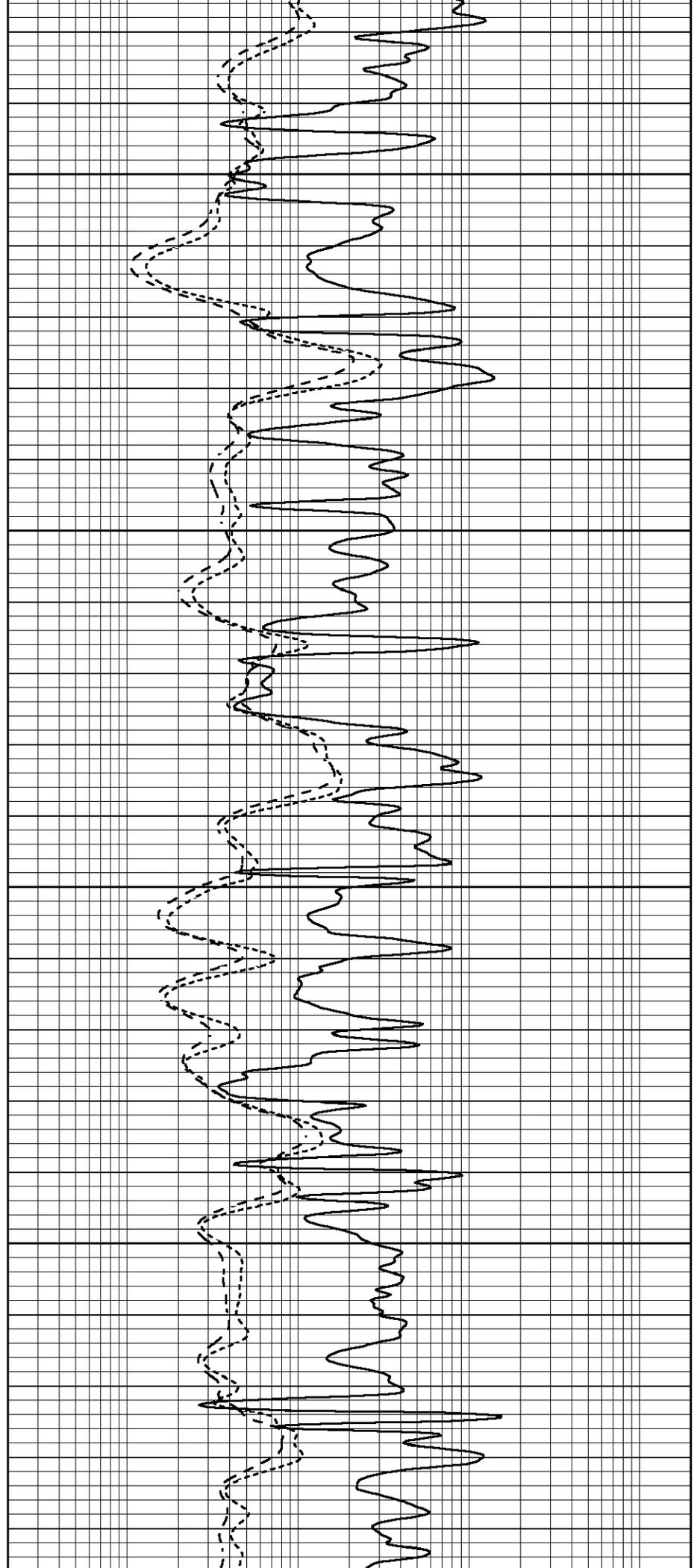


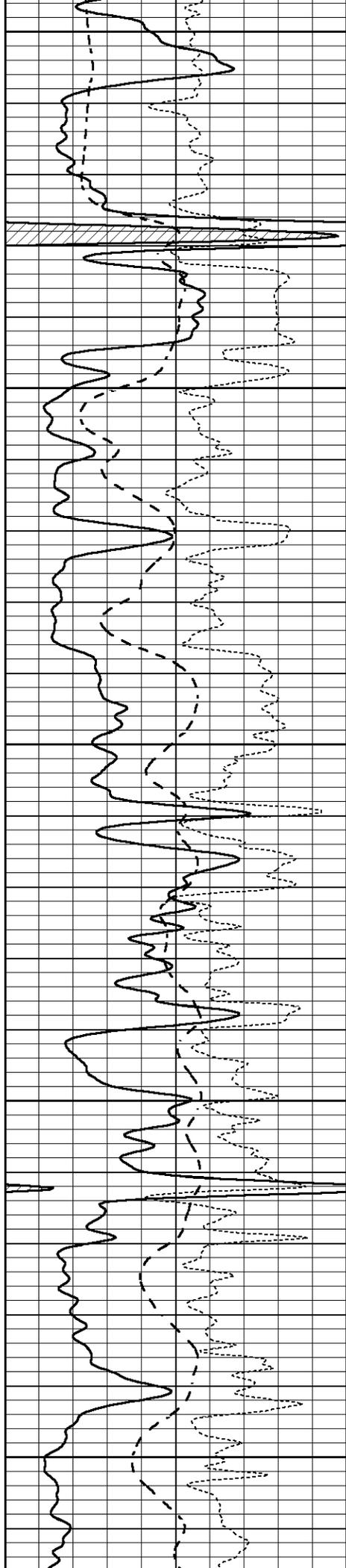
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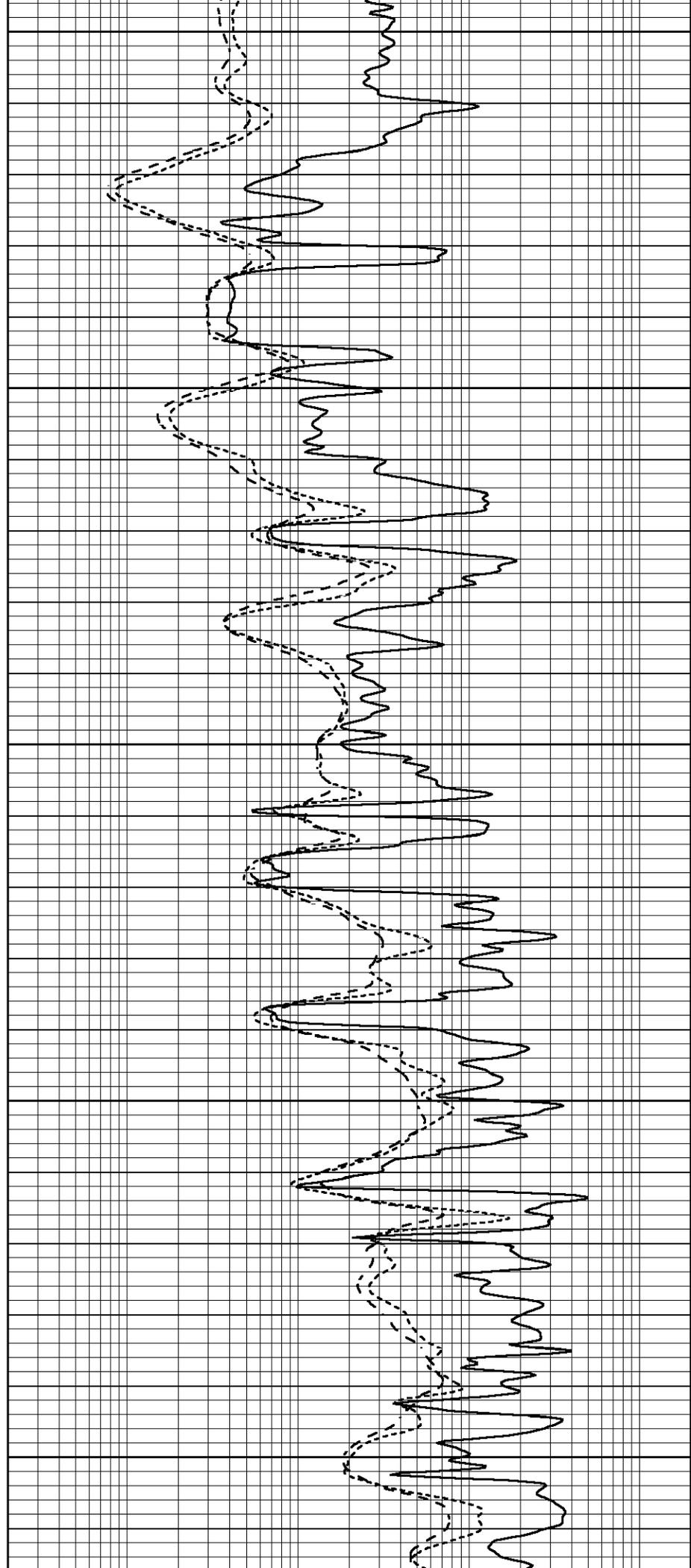
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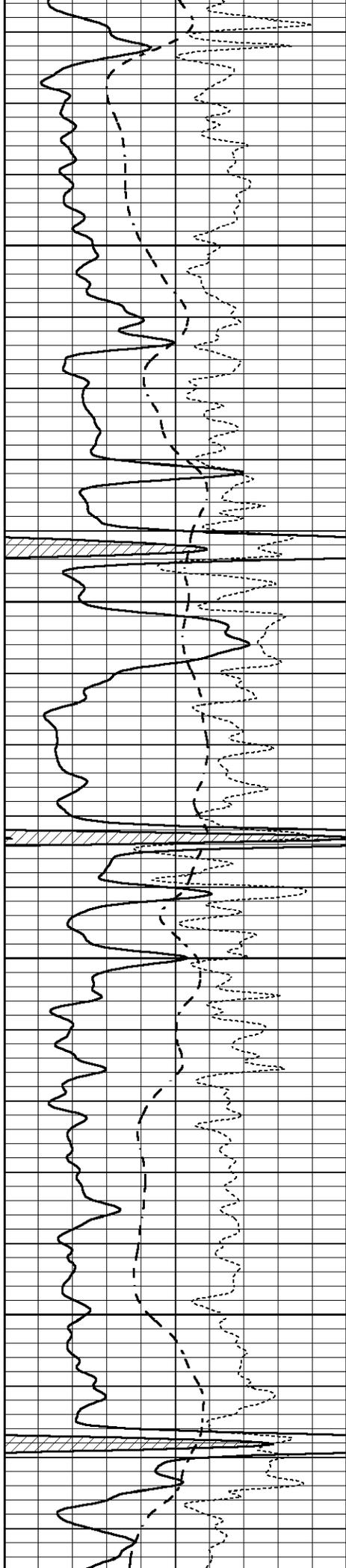
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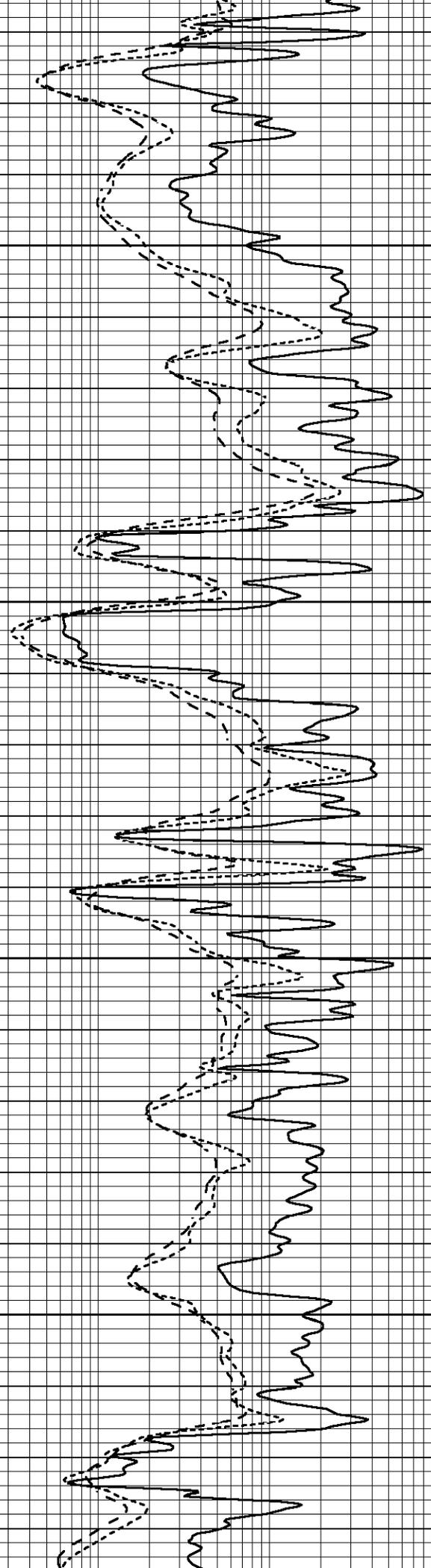


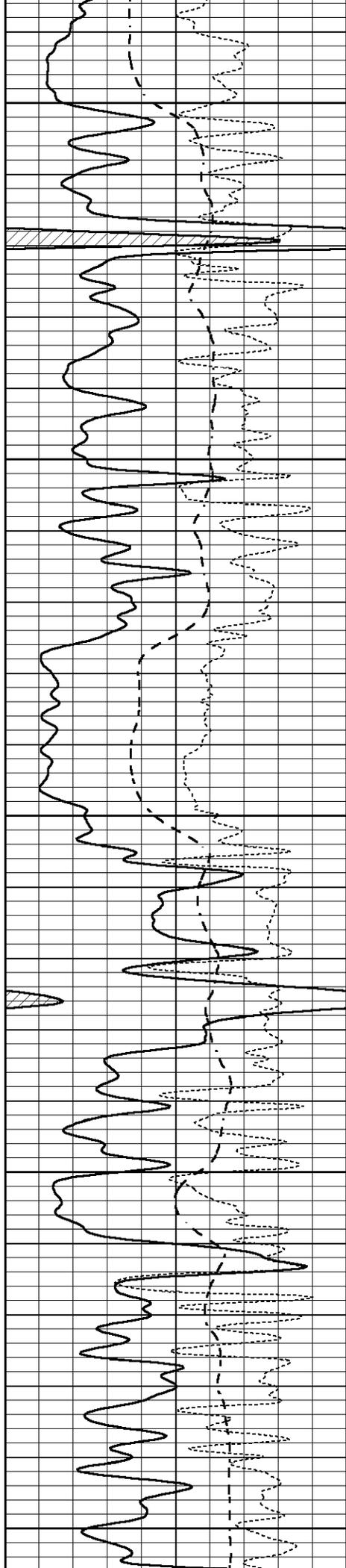
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4200

4250





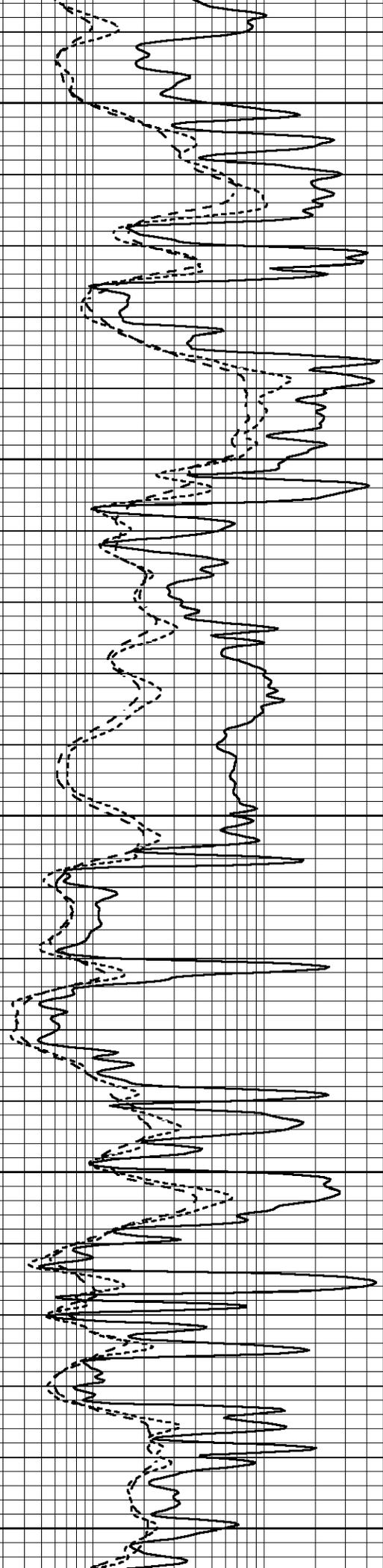
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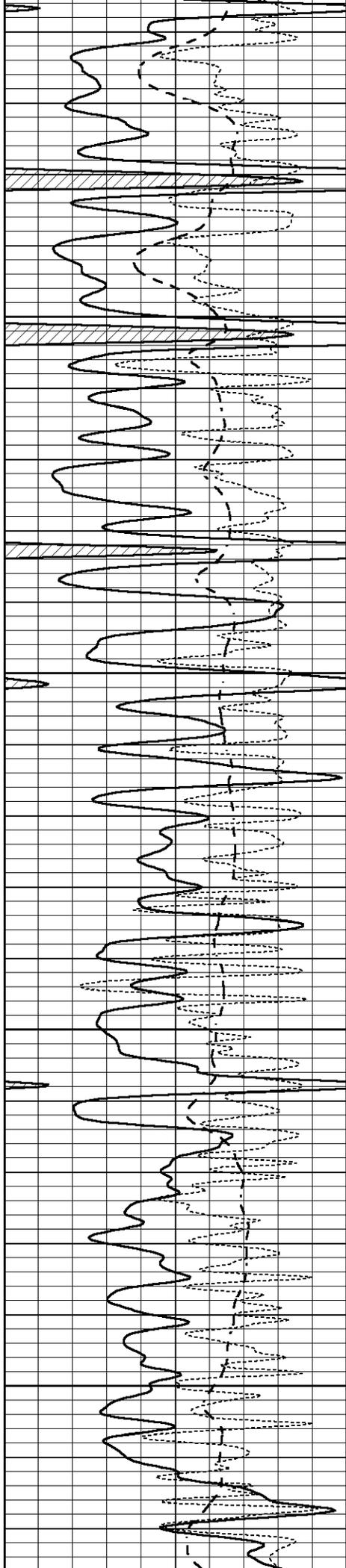
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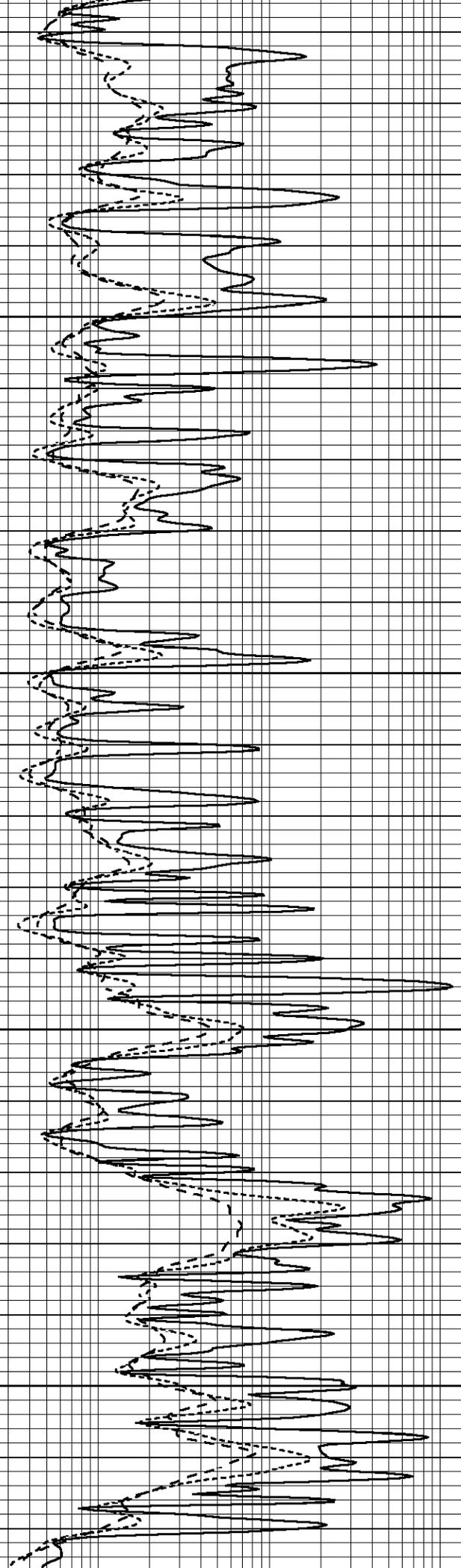


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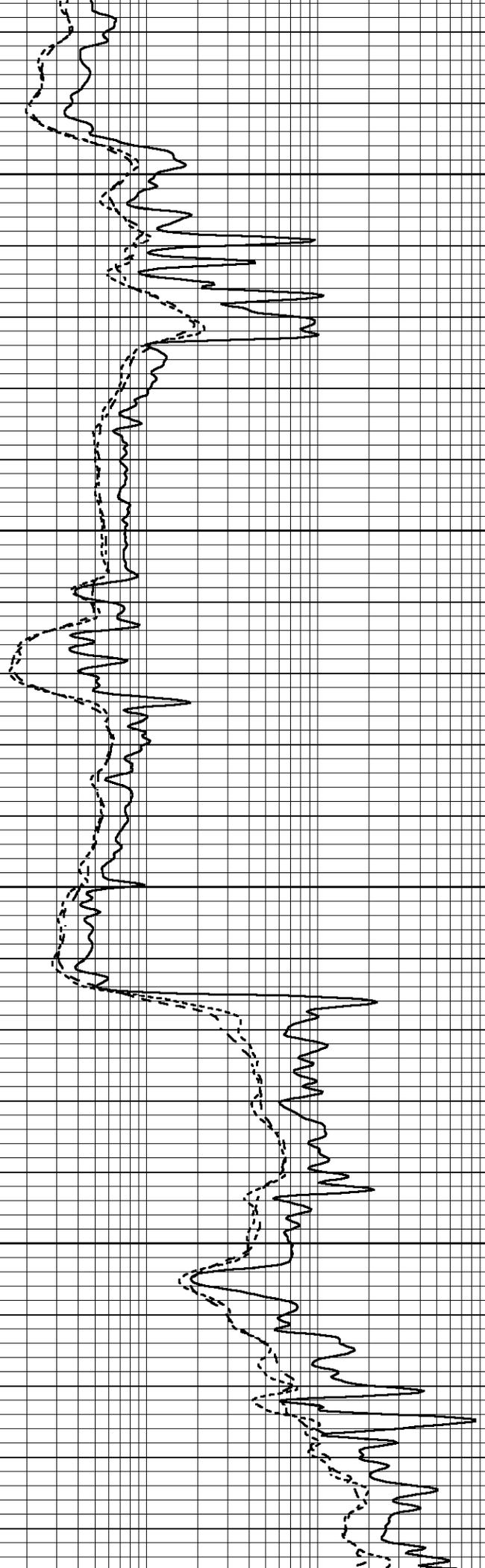
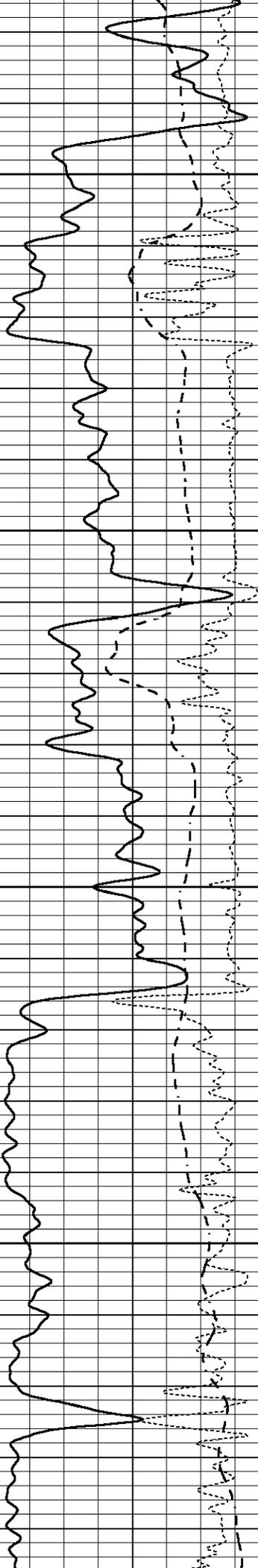


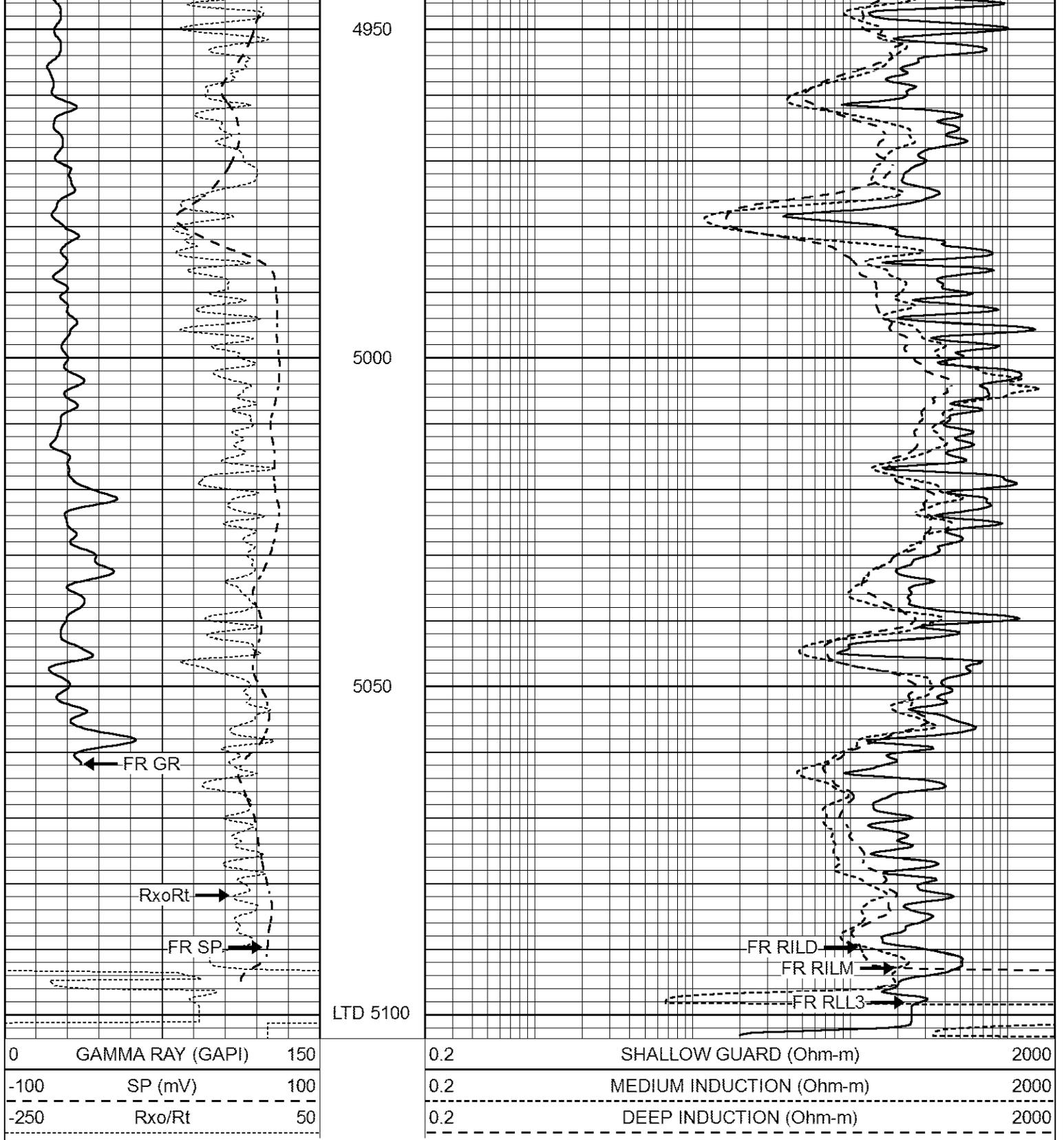
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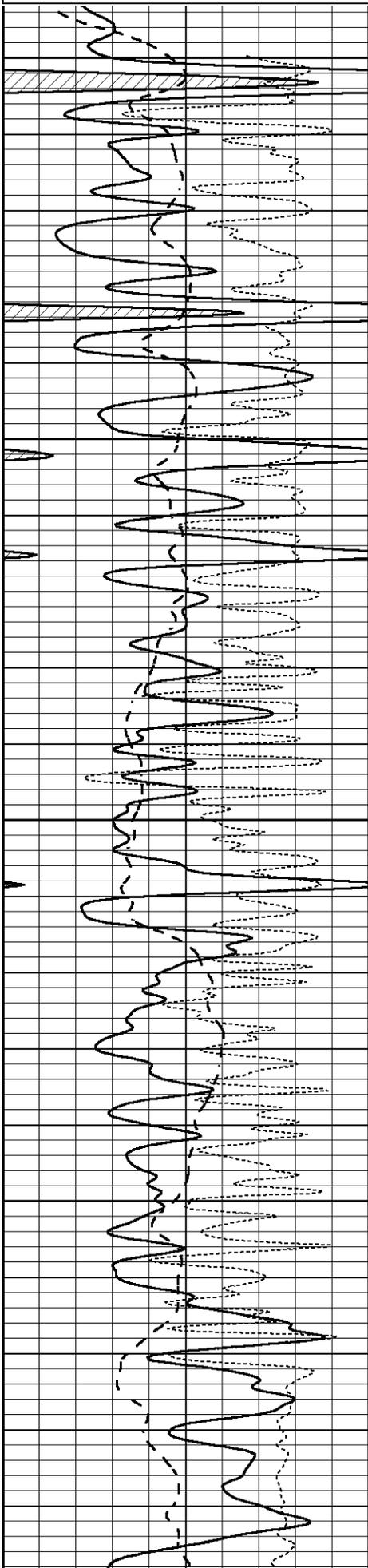


# REPEAT SECTION

Database File 6239pe.db  
 Dataset Pathname pass3.1  
 Presentation Format \_dil  
 Dataset Creation Mon Feb 14 01:14:36 2022  
 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	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

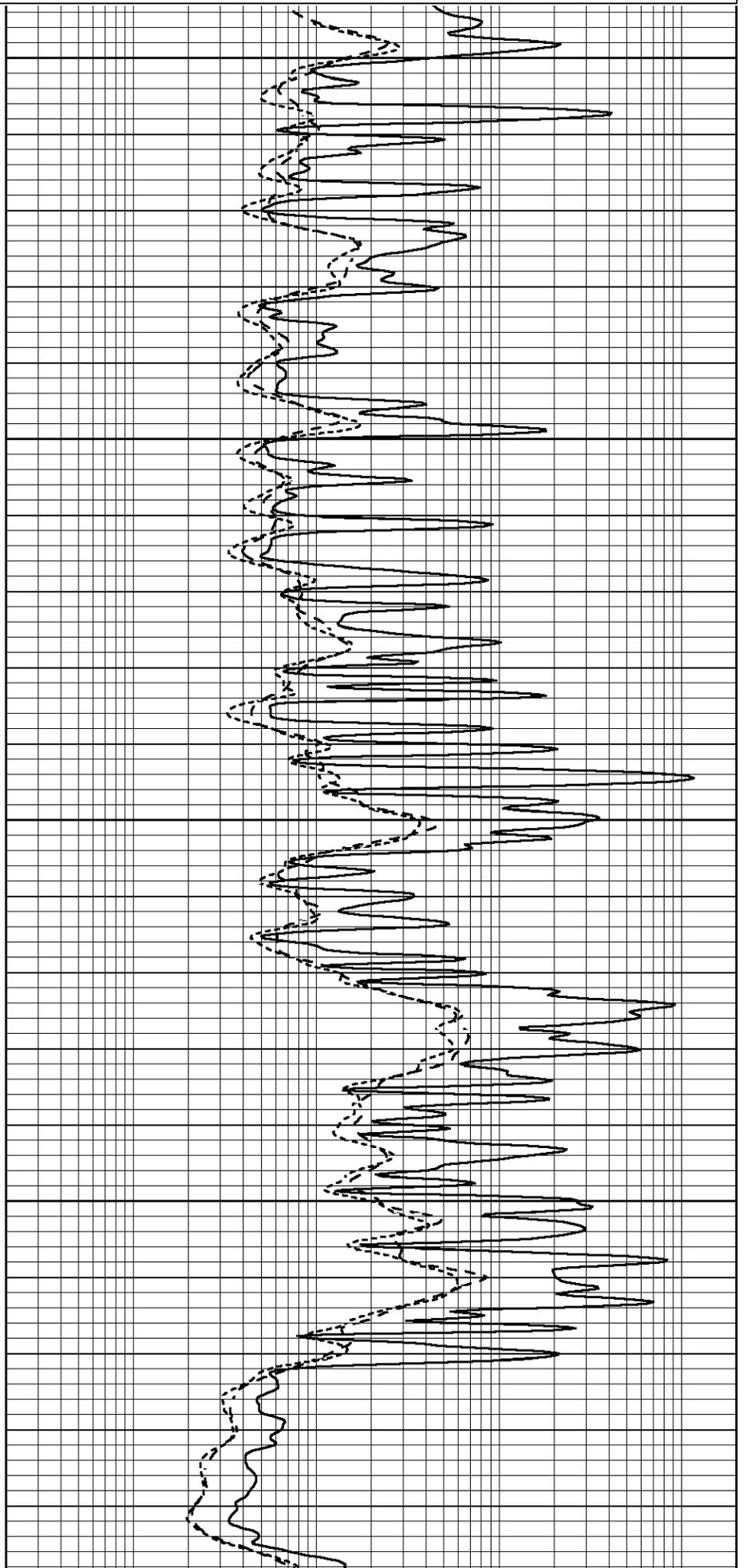


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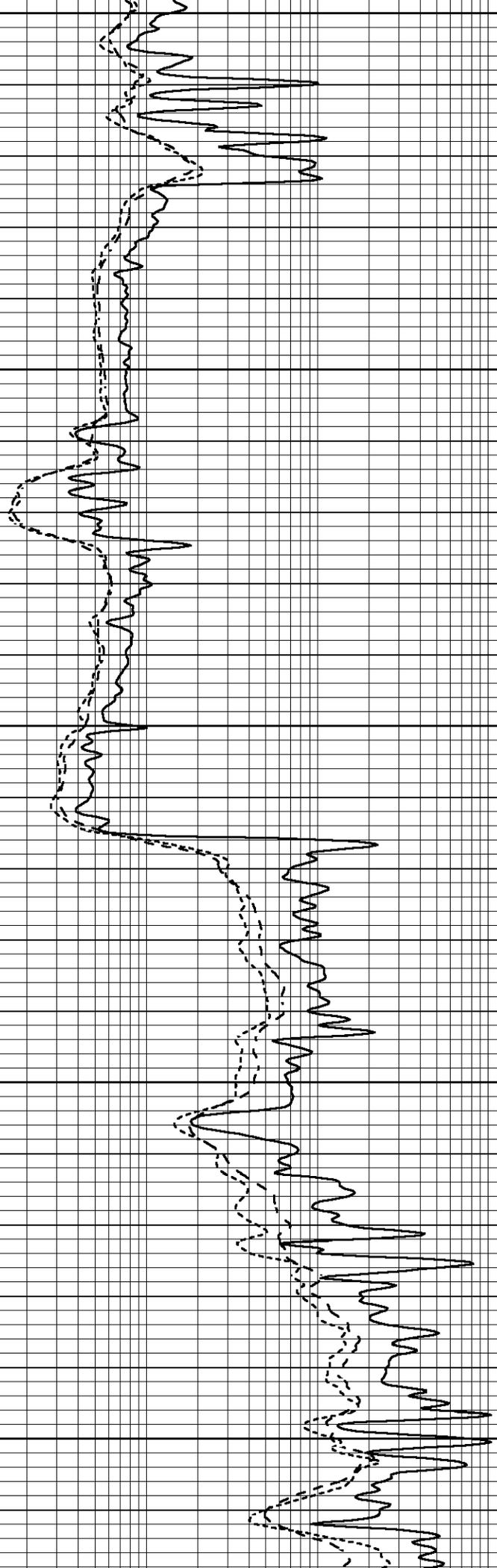
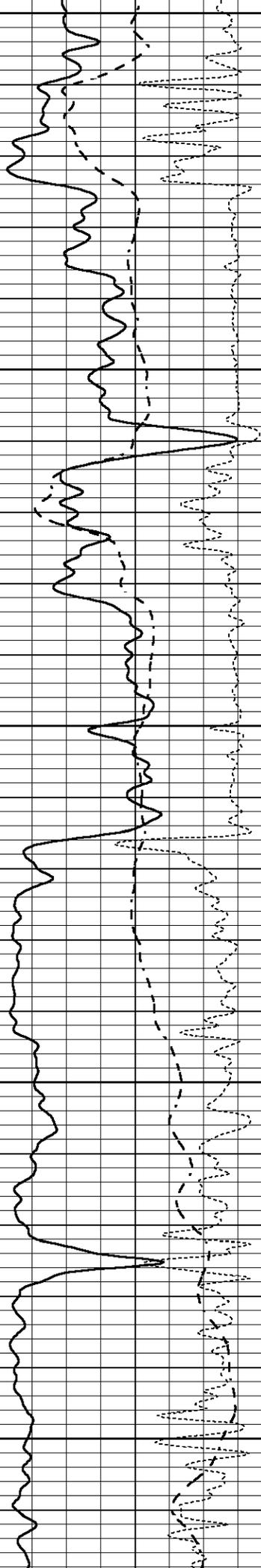
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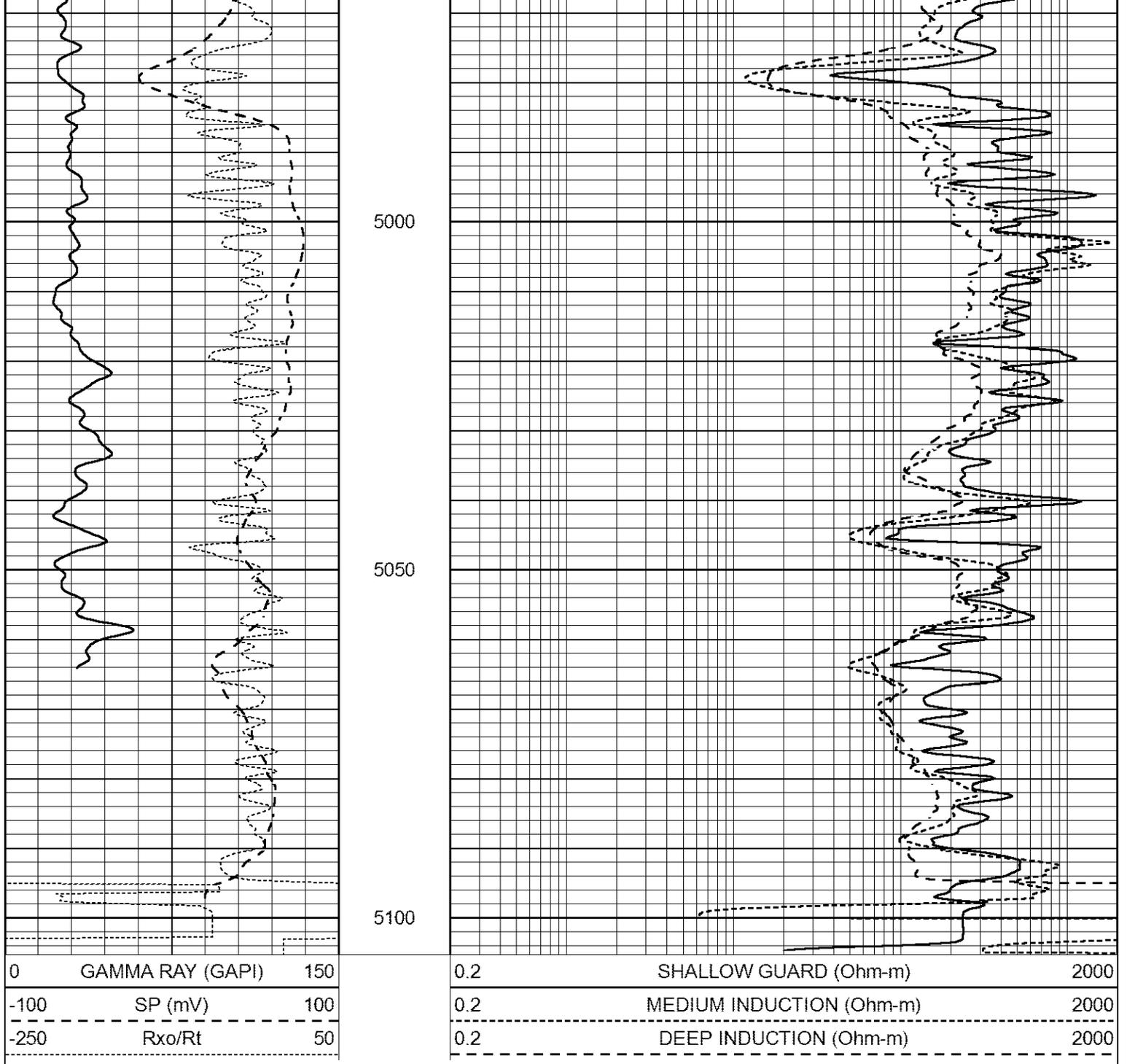
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### Calibration Report

Database File 6239pe.db  
 Dataset Pathname pass3.1  
 Dataset Creation Mon Feb 14 01:14:36 2022

### Dual Induction Calibration Report

Serial-Model: FW1410-56-Probe  
 Surface Cal Performed: Mon Jun 15 22:52:02 2020  
 Downhole Cal Performed: Tue Jul 25 12:15:37 2017  
 After Survey Verification Performed: Tue Jul 25 12:15:38 2017

### Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	400.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	425.187	32.510

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532

Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		4000.000	mmho-m		

After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report  
Serial: 140703  
Model: V4\_10P  
Source Number: 74GBq-19

Master Calibration				Performed: Tue Jan 25 14:00:06 2022			
	Background	Aluminum		Magnesium			
Window 1	536.63	5366.27		23525.73	cps		
Window 2	42.91	1241.07		5903.94	cps		
Window 4	234.22	1197.63		5056.39	cps		
Window 5	470.91	9159.65		17426.67	cps		
Window 6	30.83	648.89		1219.18	cps		
Window 8	256.26	4659.94		9003.51	cps		
Bulk Density	-	2.6020		1.6830	g/cc		
Pe	-	3.0000		2.5070	b/e		
LS Alpha:	: -1.8361	SS Alpha:	: -0.7848	LS CPE:		: 1.0879	
LS Beta:	: 117533.3616	SS Beta:	: 35294.5337	SS CPE:		: 5.9752	

Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969		
Window 1	0.00	cps			
Window 2	0.00	cps			
Window 4	0.00	cps			
Window 5	0.00	cps			
Window 6	0.00	cps			
Window 8	0.00	cps			

After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969		
Window 1	0.00	cps			
Window 2	0.00	cps			
Window 4	0.00	cps			

Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration Performed: Tue Jan 25 14:00:06 2022

Results	Readings	References (in)		Gain	Offset
Low	High	Low	High		
10332.0	13596.9	8.0	14.0	0.0	-11.0

Before Survey Caliper Verification Performed:

	Reference	Reading
Caliper (in)	_____	_____

After Survey Caliper Verification Performed:

	Reference	Reading
Caliper (in)	_____	_____

Compensated Neutron Calibration Report

Serial Number:	080621PMC
Tool Model:	NABORS

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	7
Tool Model:	Probe1
Performed:	Tue Jan 19 17:50:08 2021
Calibrator Value:	1.0      GAPI
Background Reading:	0.0      cps
Calibrator Reading:	1.0      cps
Sensitivity:	0.5300      GAPI/cps