



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	CASTELLI EXPLORATION, INC.		
Well	GREGG #1-30		
Field			
County	COMANCHE	State	KANSAS
Location:	API # : 15-033-21634-0000		Other Services CNL/CDL MEL
Permanent Datum	NE - SW - SW - NW		
Log Measured From	3070' FSL & 365' FWL		
Drilling Measured From	SEC 30 TWP 33S RGE 16W		
Date	5-12-12		
Run Number	ONE		
Depth Driller	5200		
Depth Logger	5199		
Bottom Logged Interval	5197		
Top Log Interval	00		
Casing Driller	344		
Casing Logger	344		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 49	CHLORIDES 4.000	
pH / Fluid Loss	9.5 / 9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.90 @ 72F		
Rmf @ Meas. Temp	0.68 @ 72F		
Rmc @ Meas. Temp	1.08 @ 72F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.51 @ 127F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	127F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	DAN GOTTSCHALK		
Witnessed By	RICK POPP		

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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 SERVICES, INC.
HAYS, KS. 785-628-6395
DIRECTIONS: COLDWATER - EAST ON 160 TO RD. 22 - SOUTH TO STOP SIGN -
SOUTH AND EAST THRU 3 CATTLEGAURDS TO WHITE SHED - WEST SIDE OF SHED -
SOUTH 1 MILE

0 Gamma Ray (GAPI) 150

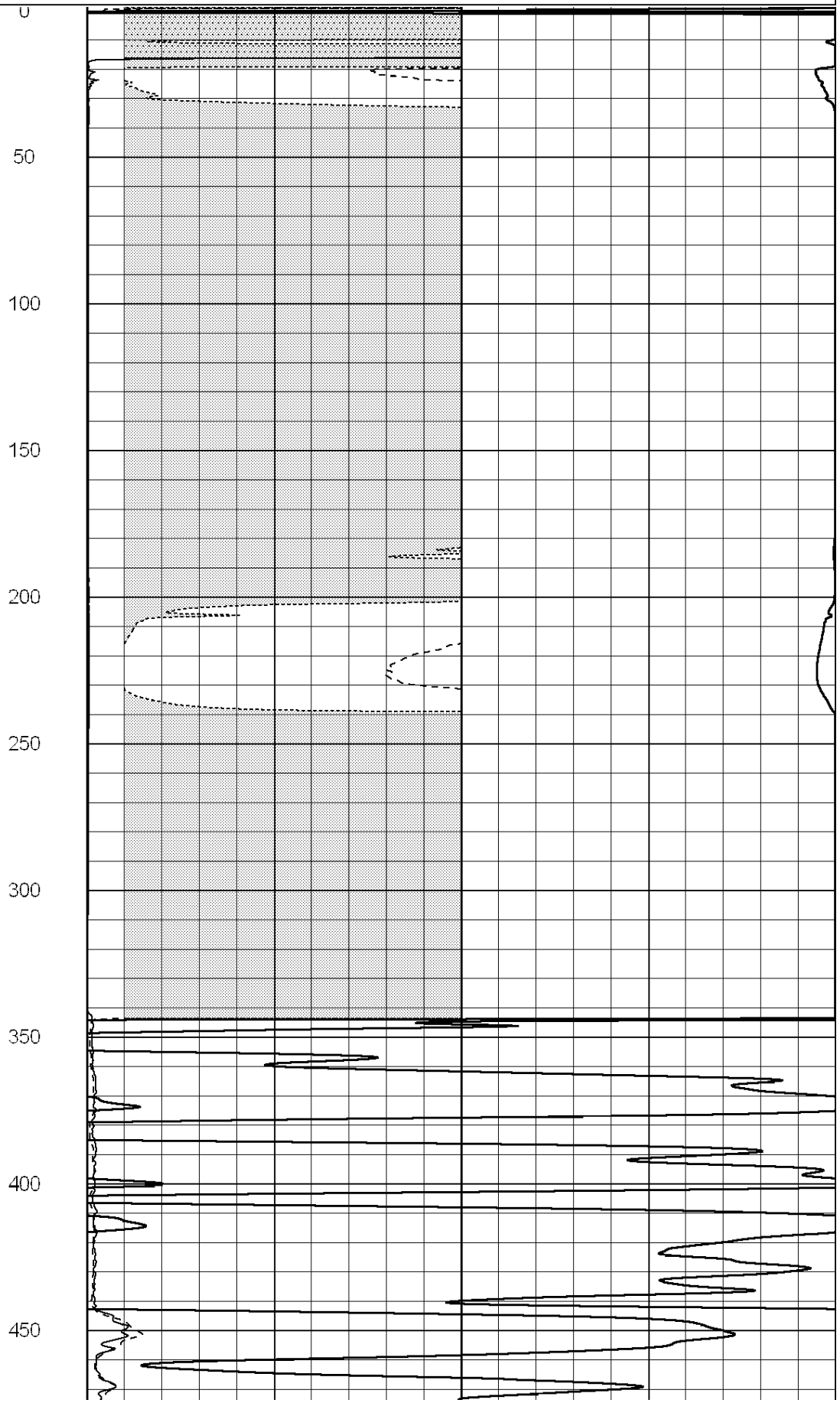
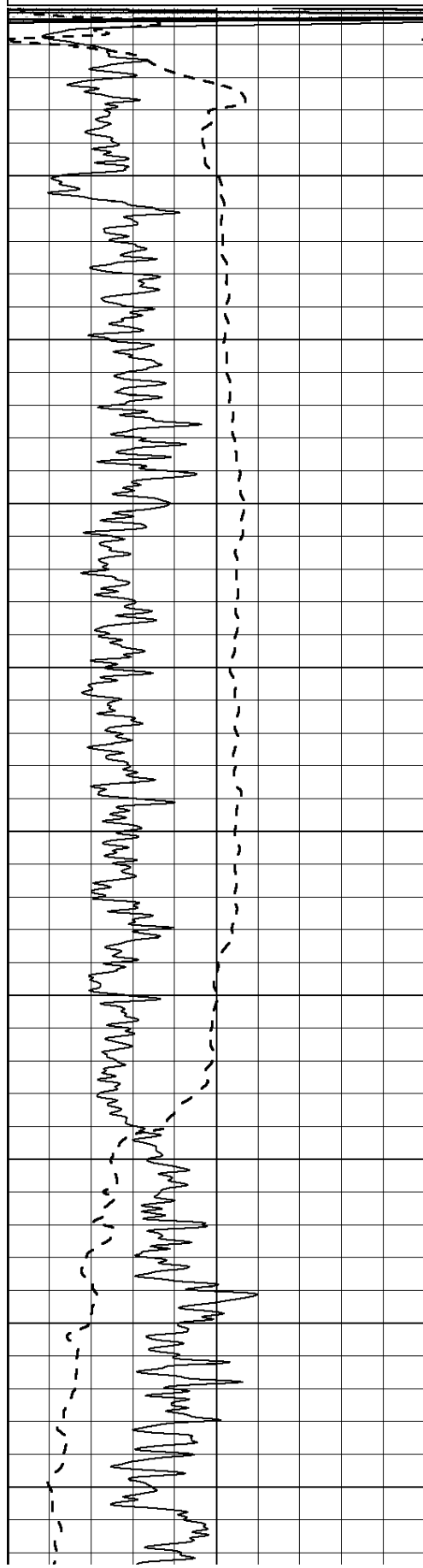
0 RLL3 (Ohm-m) 50

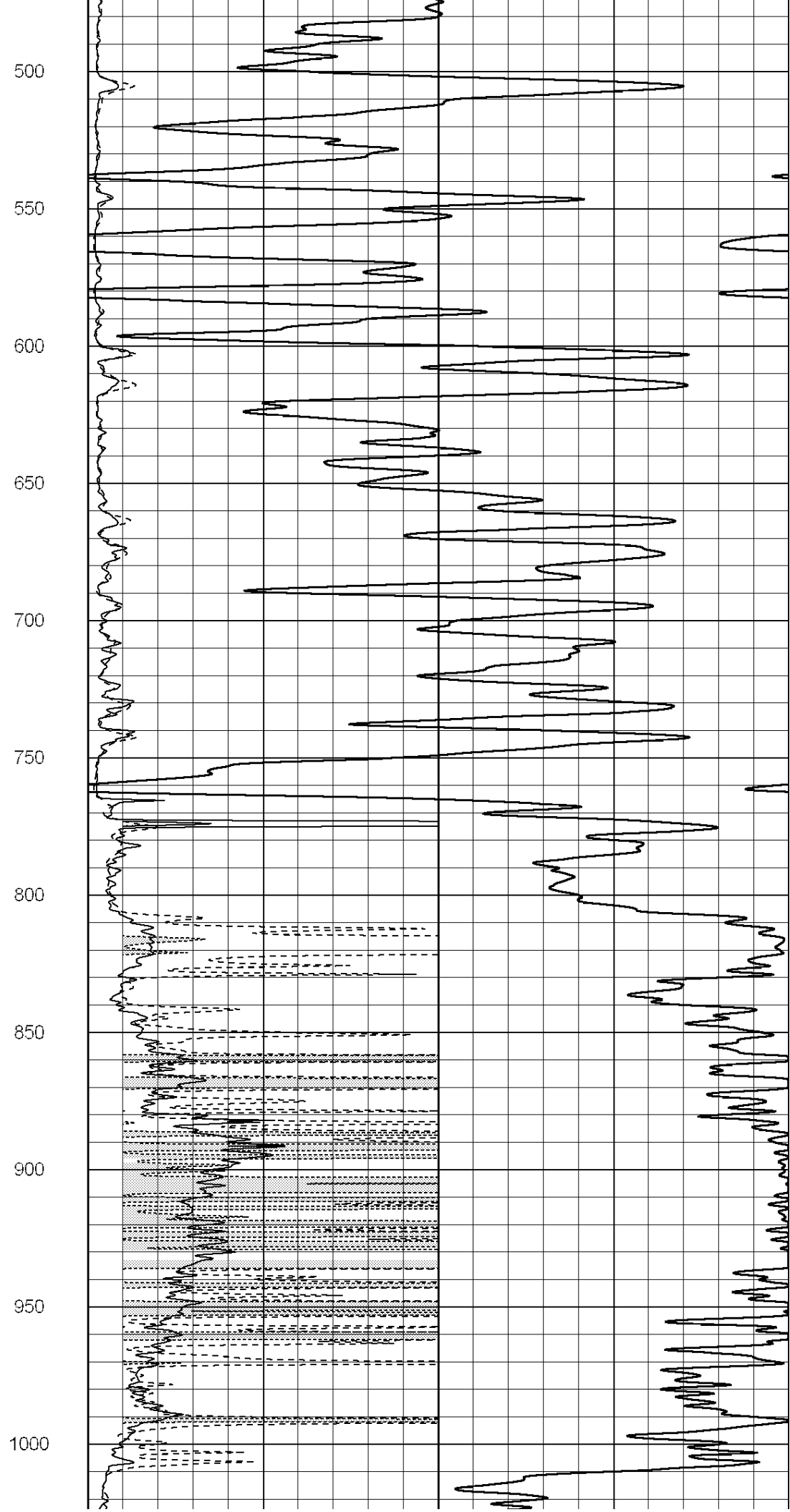
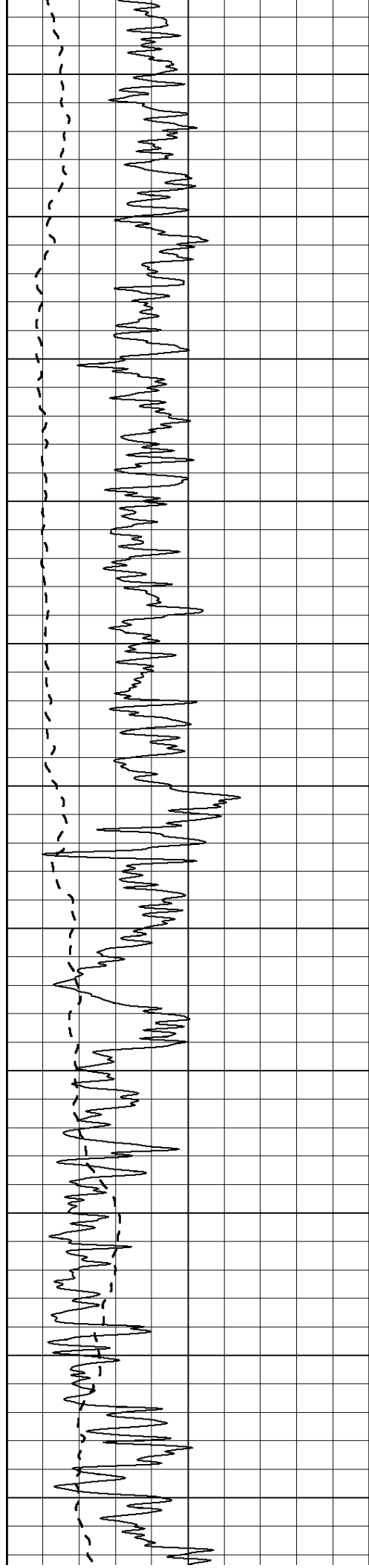
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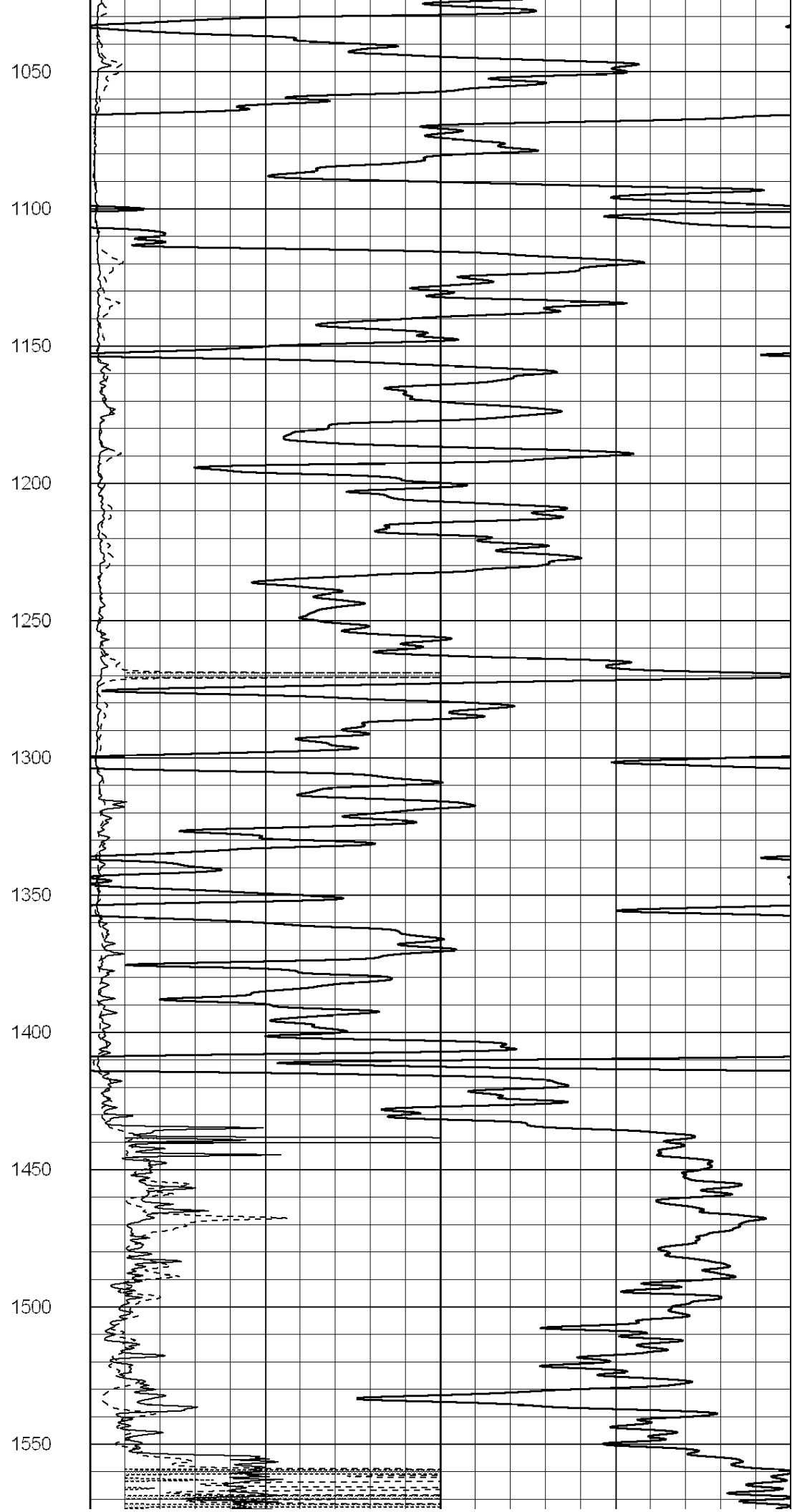
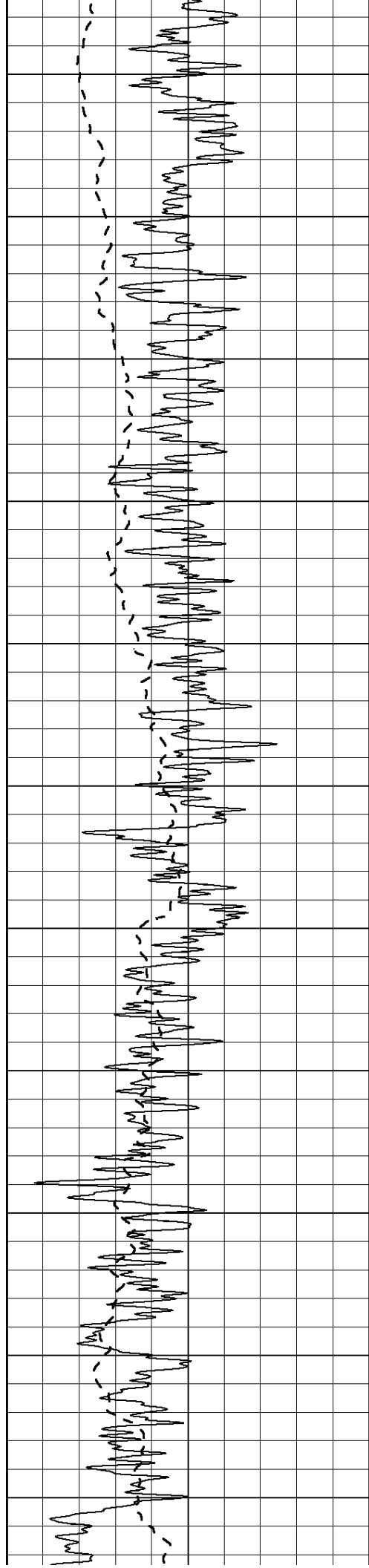
1000 CILD (mmho/m) 0

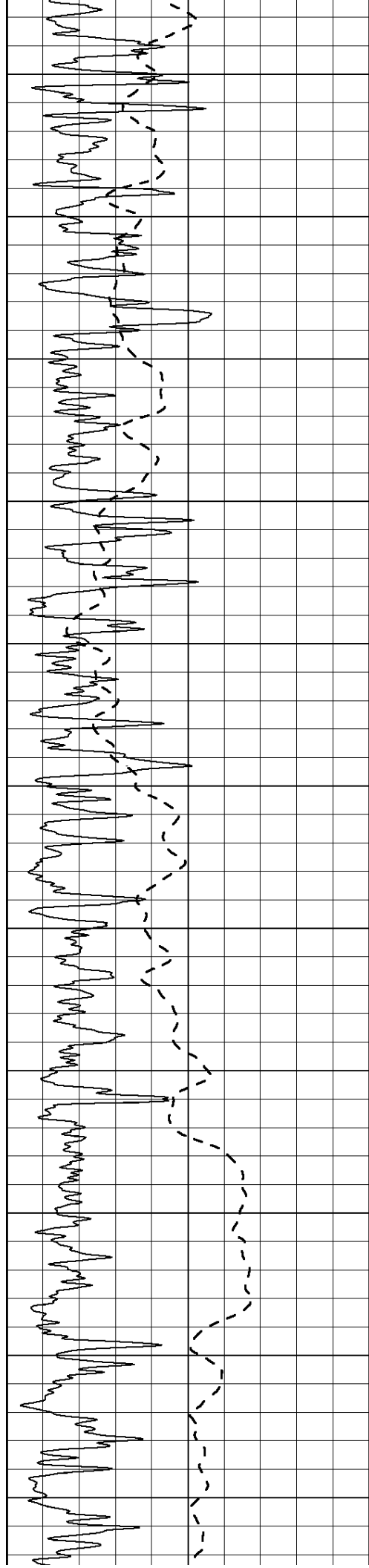
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50 RLL3 X10 (Ohm-m) 500









1600

1650

1700

1750

1800

1850

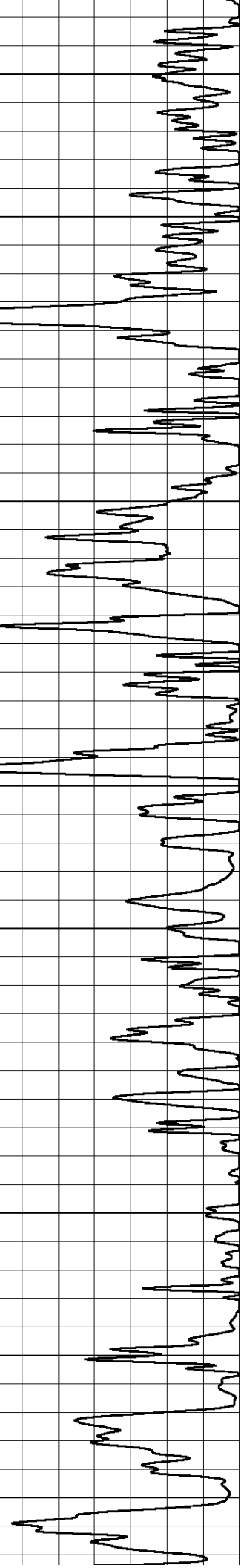
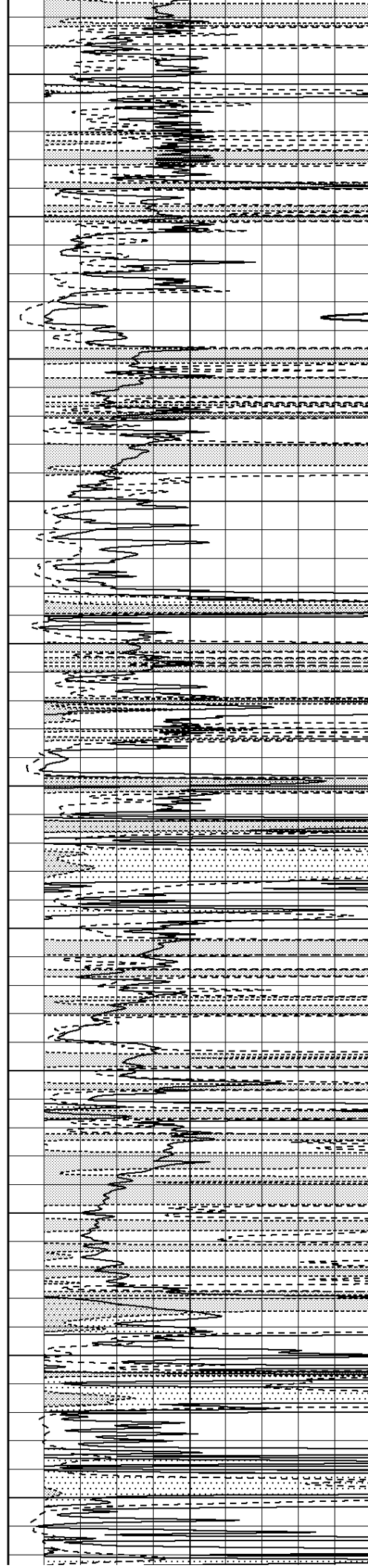
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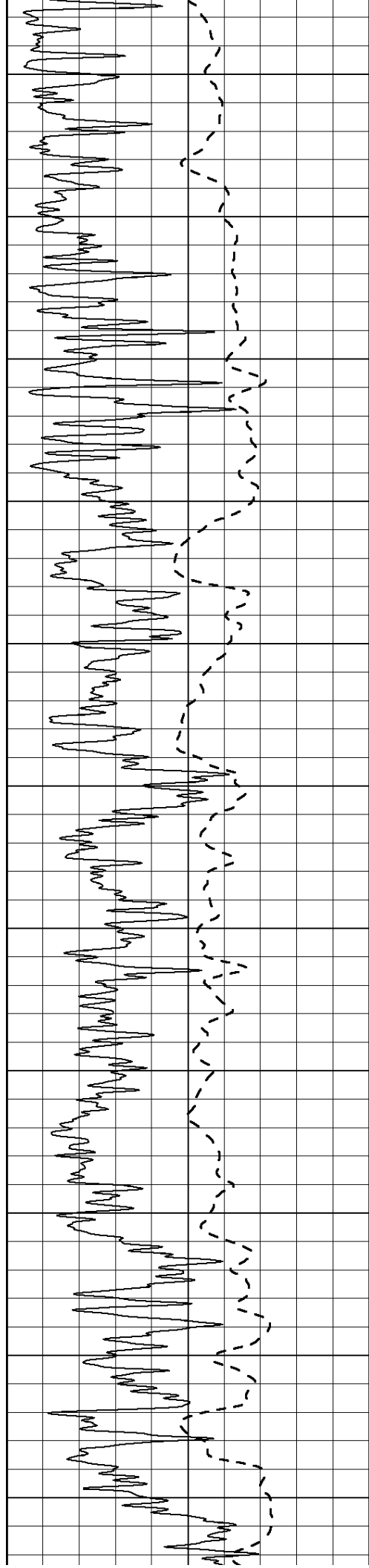
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2000

2050

2100





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2400

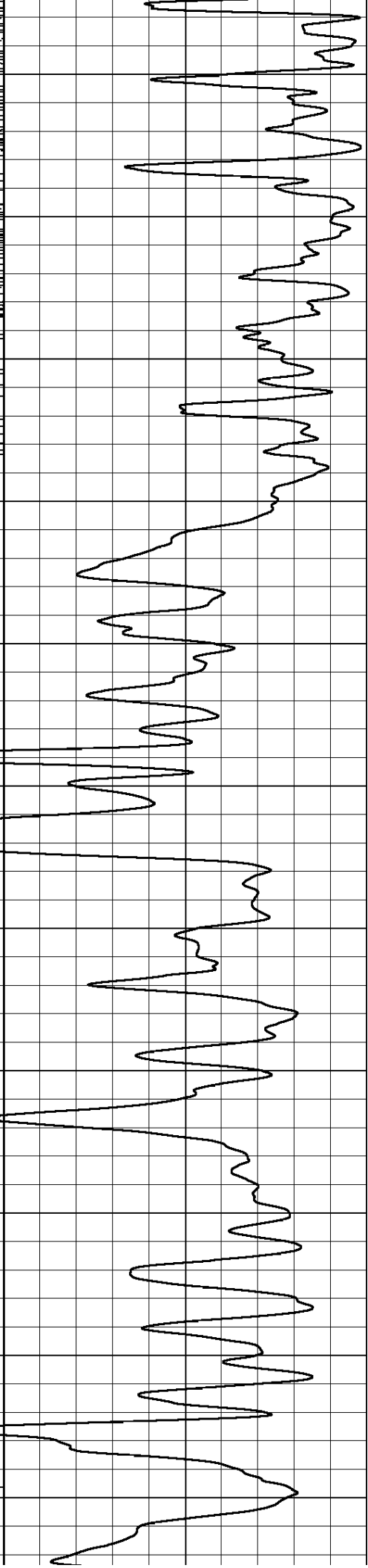
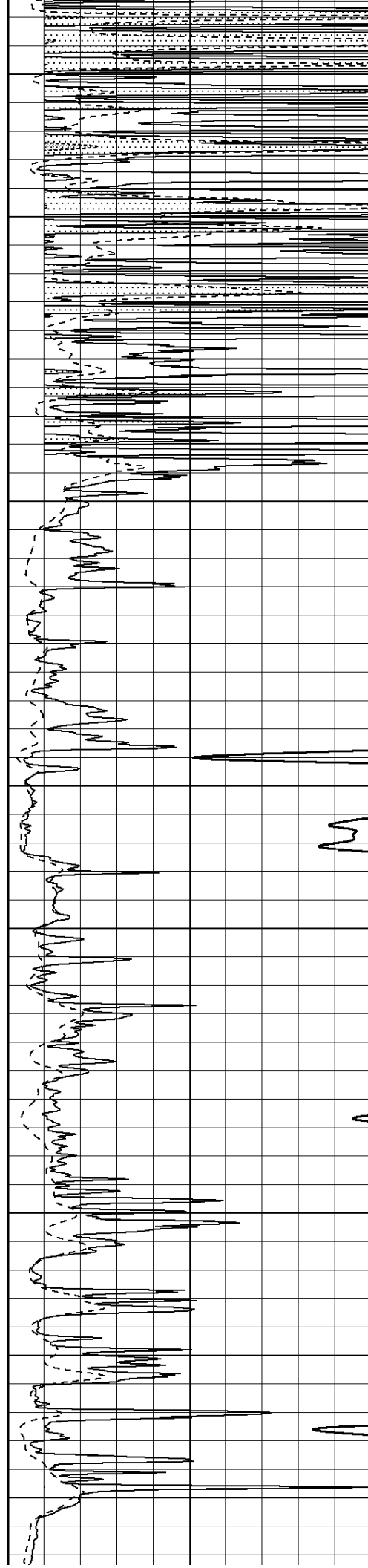
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2800

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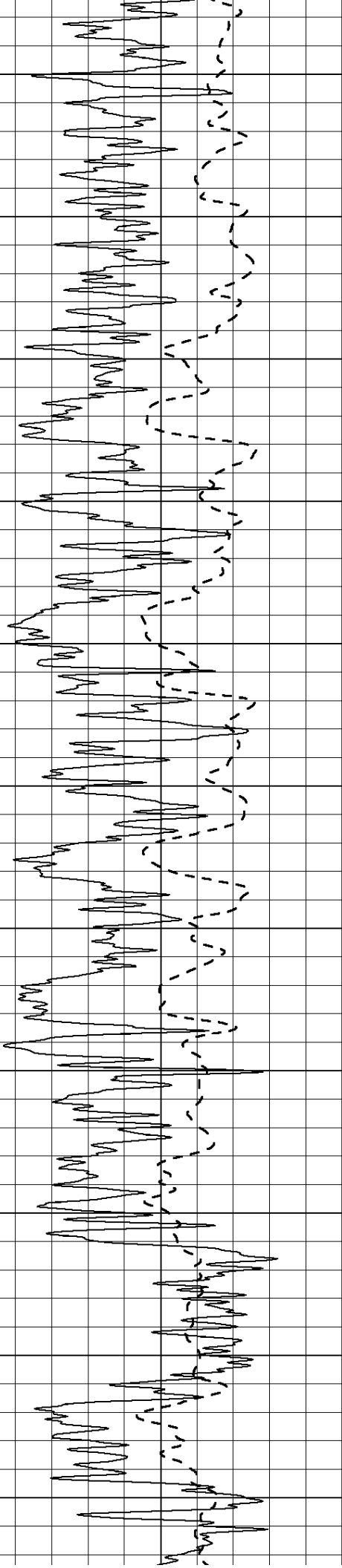
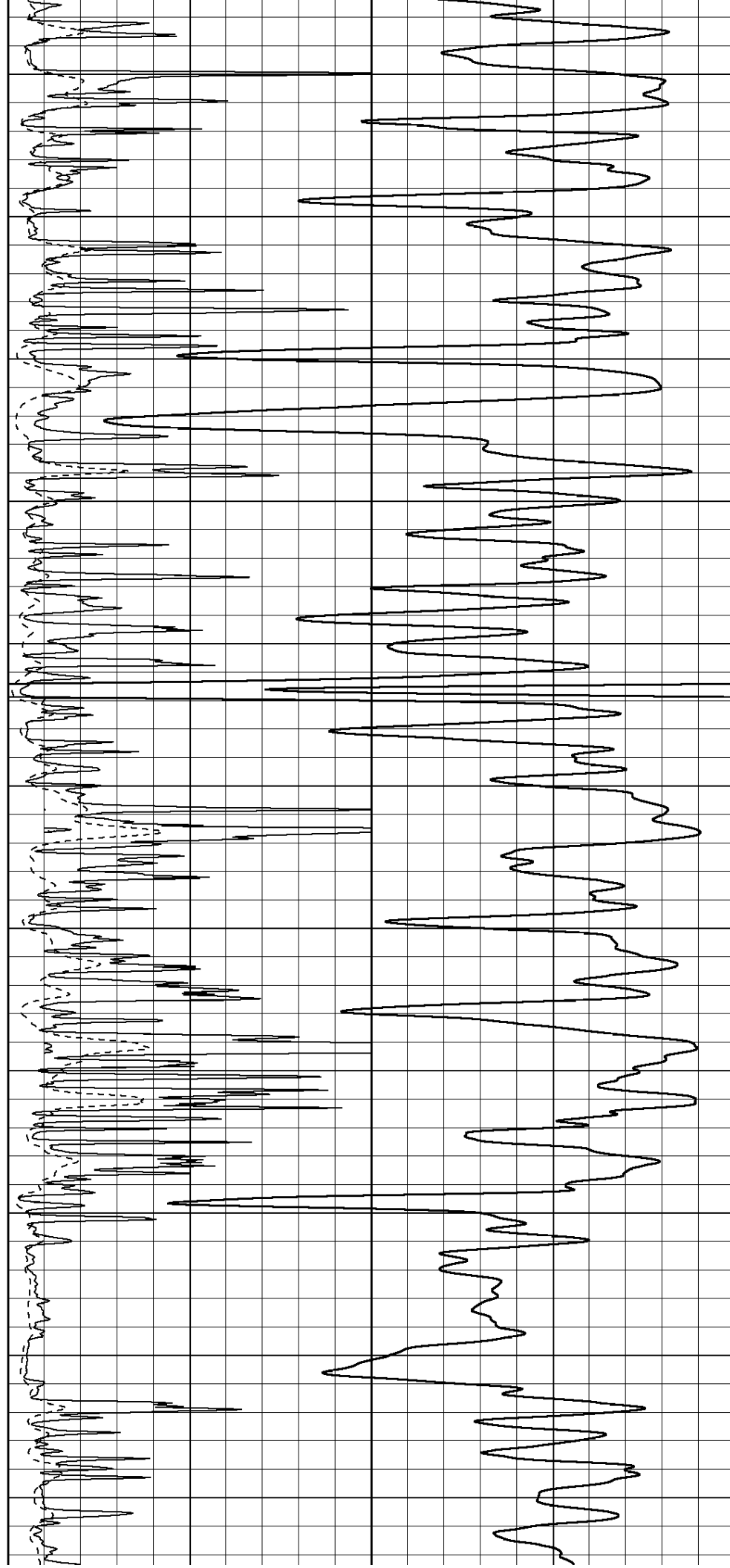
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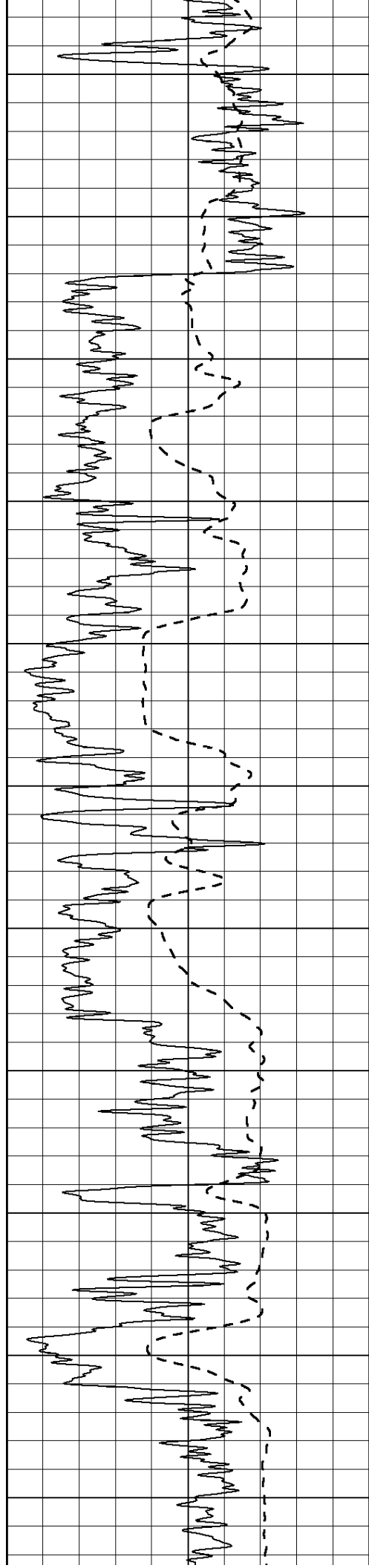
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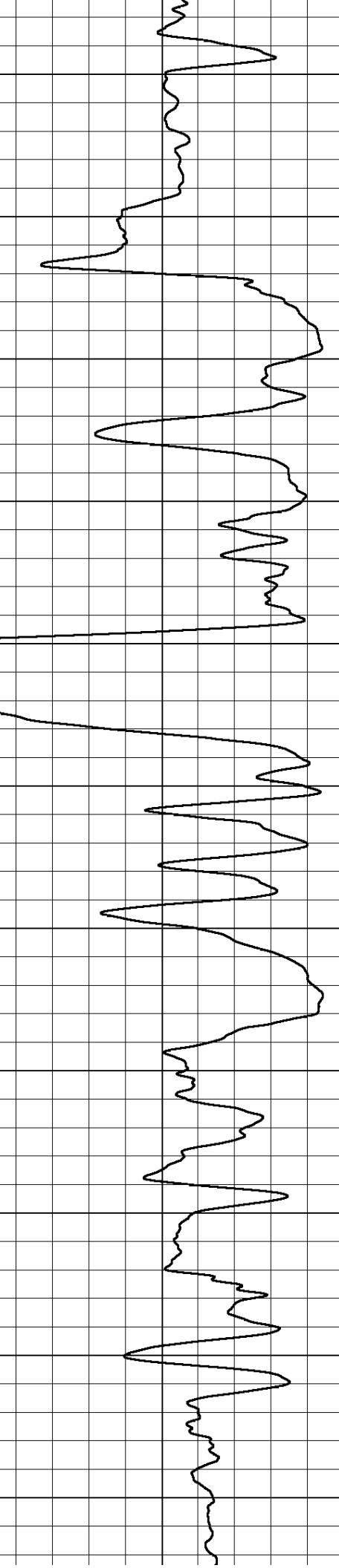
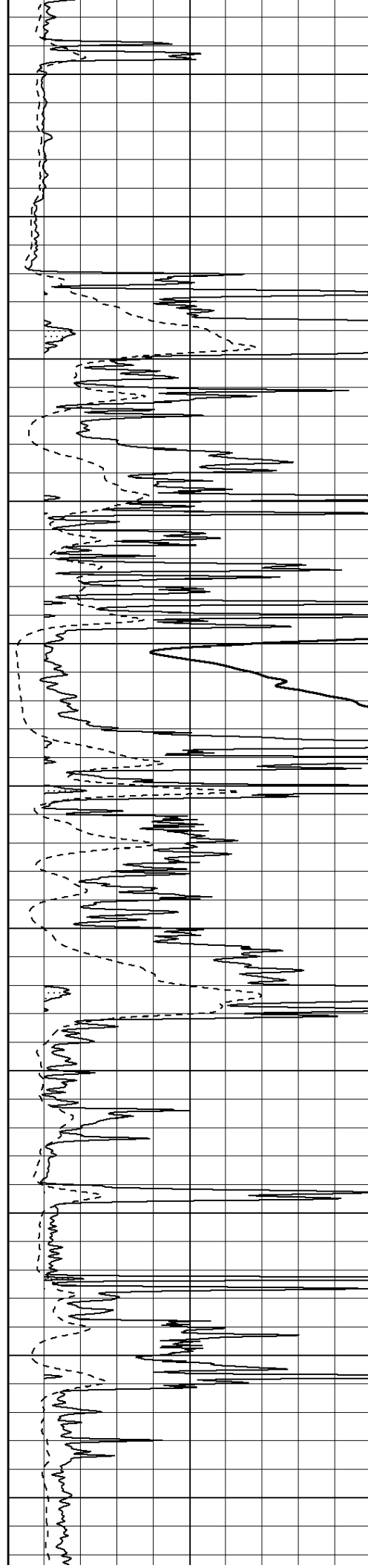
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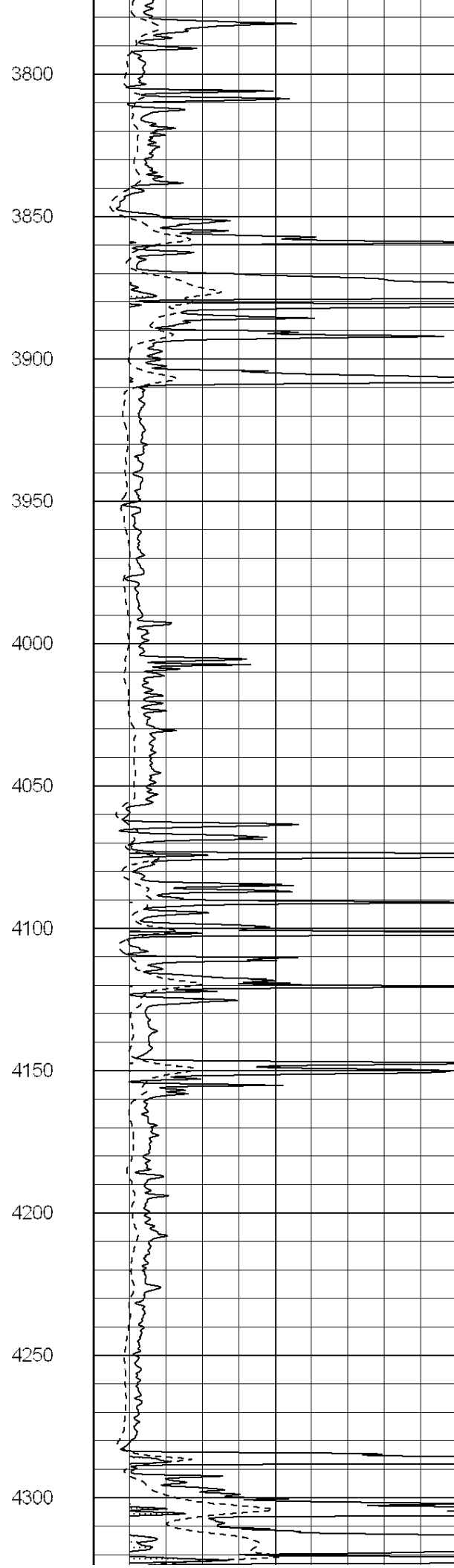
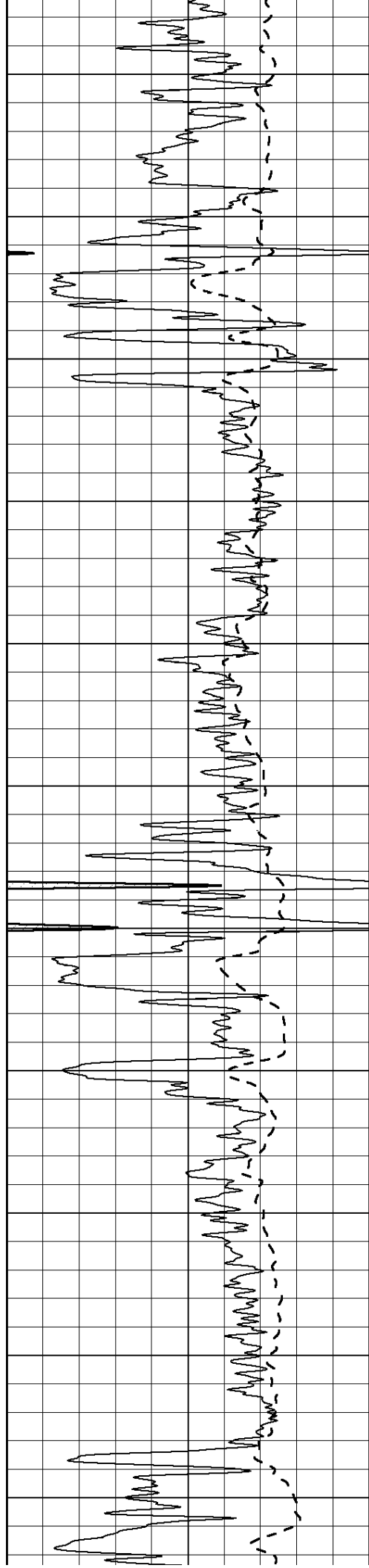
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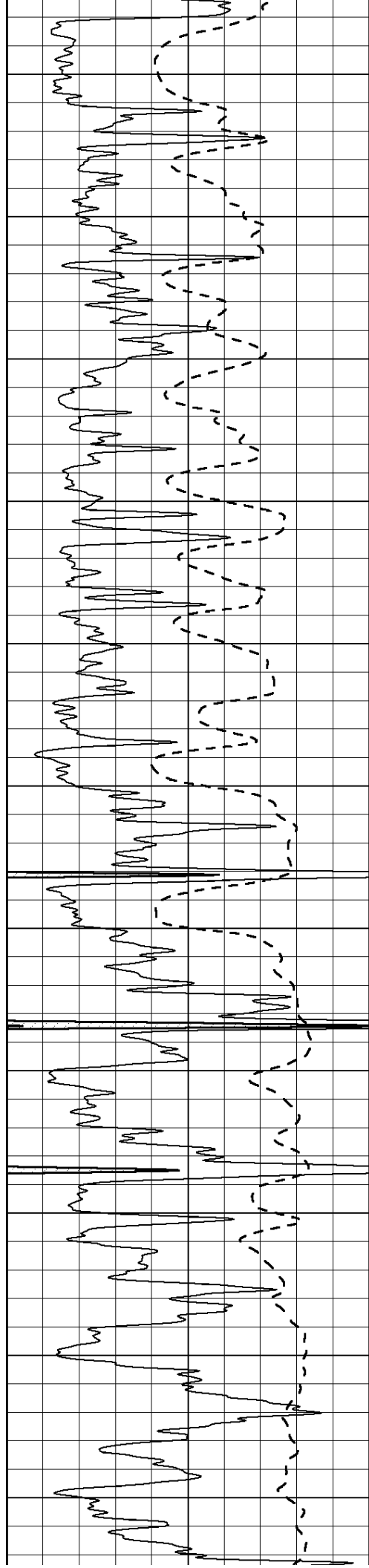
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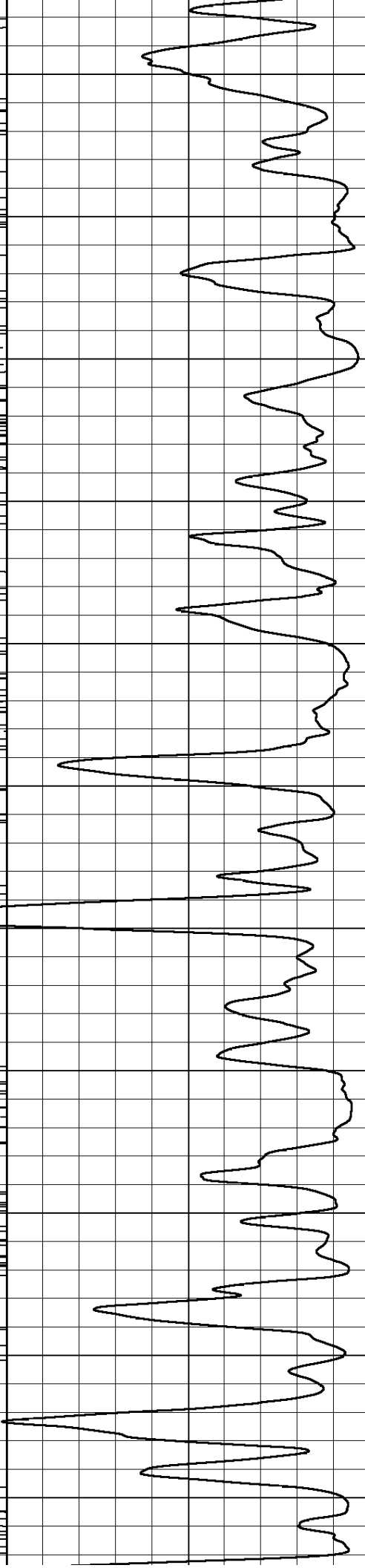
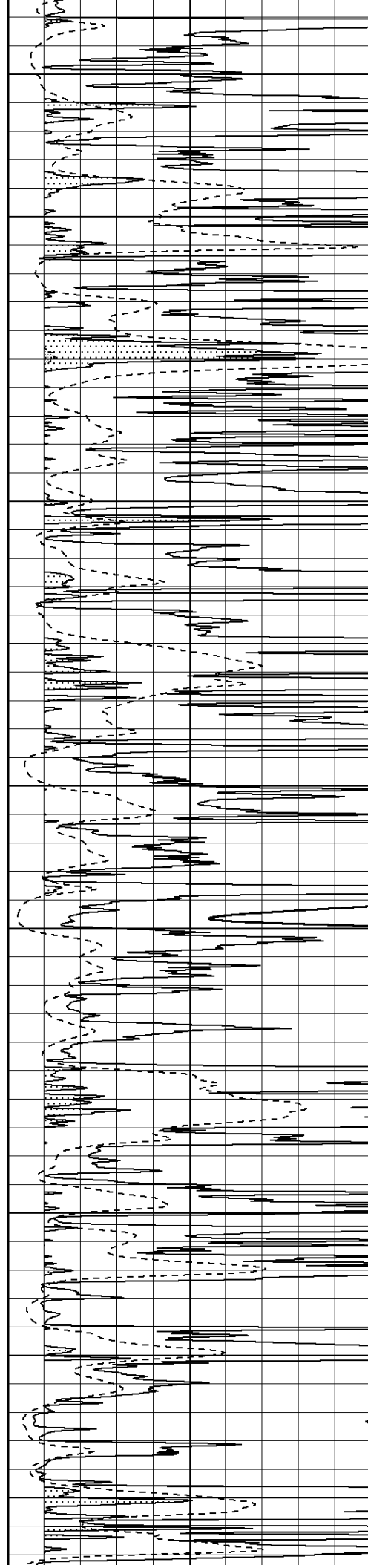
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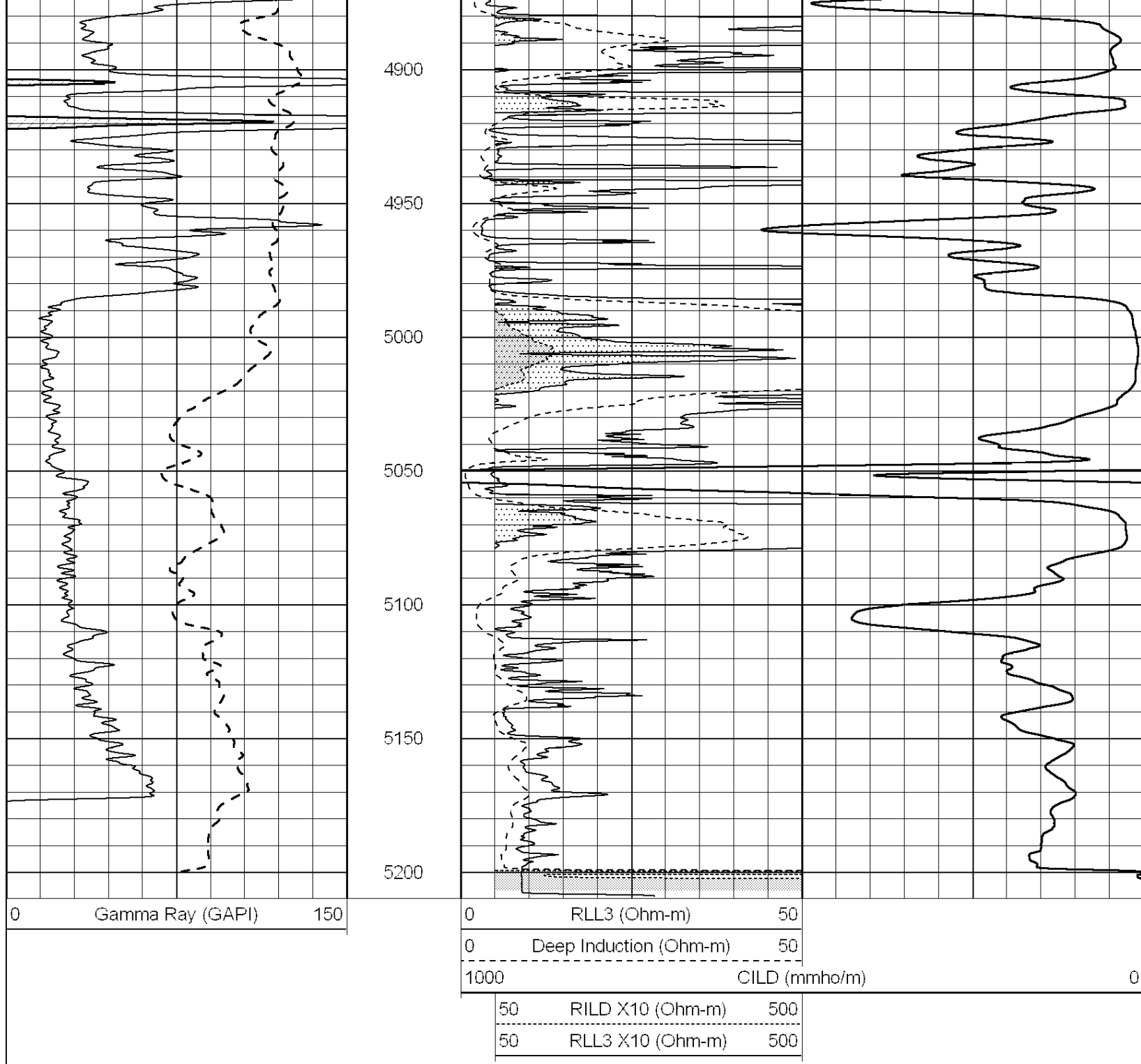
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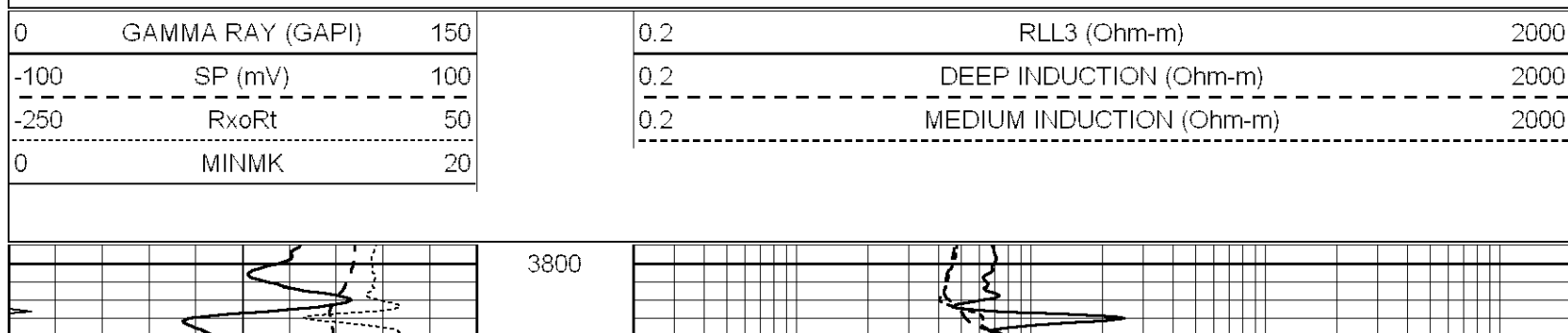
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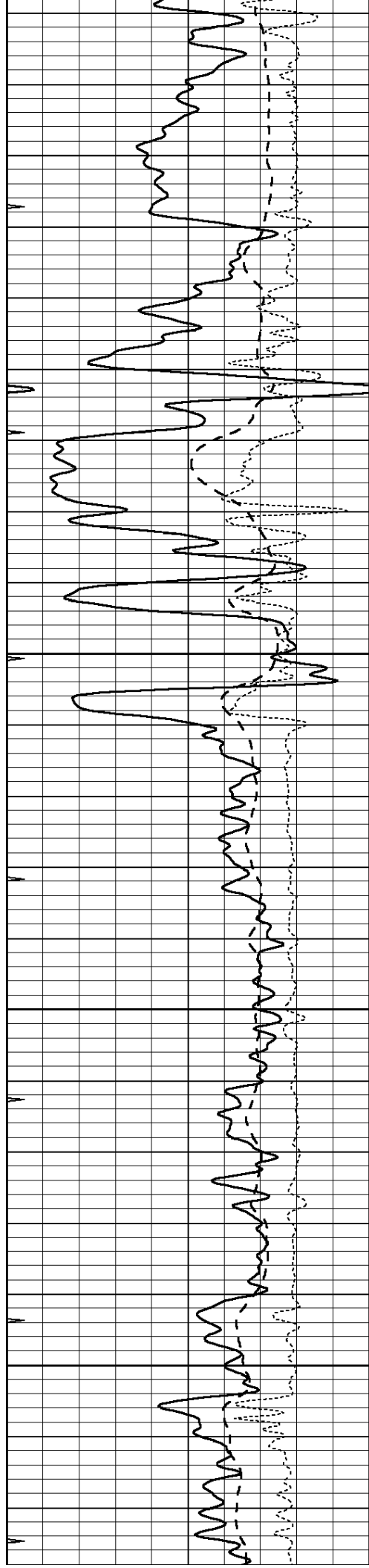
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 Charted by: Depth in Feet scaled 1:240



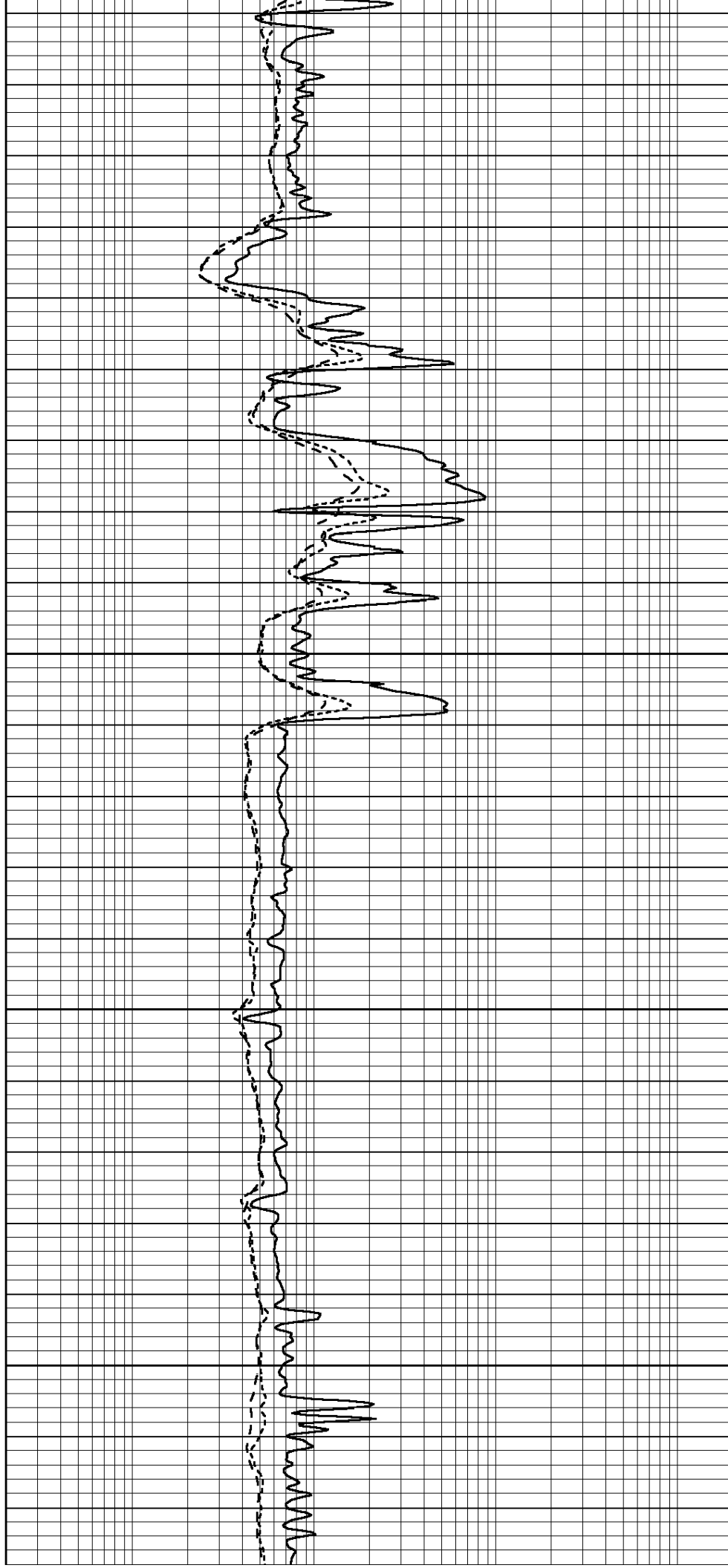


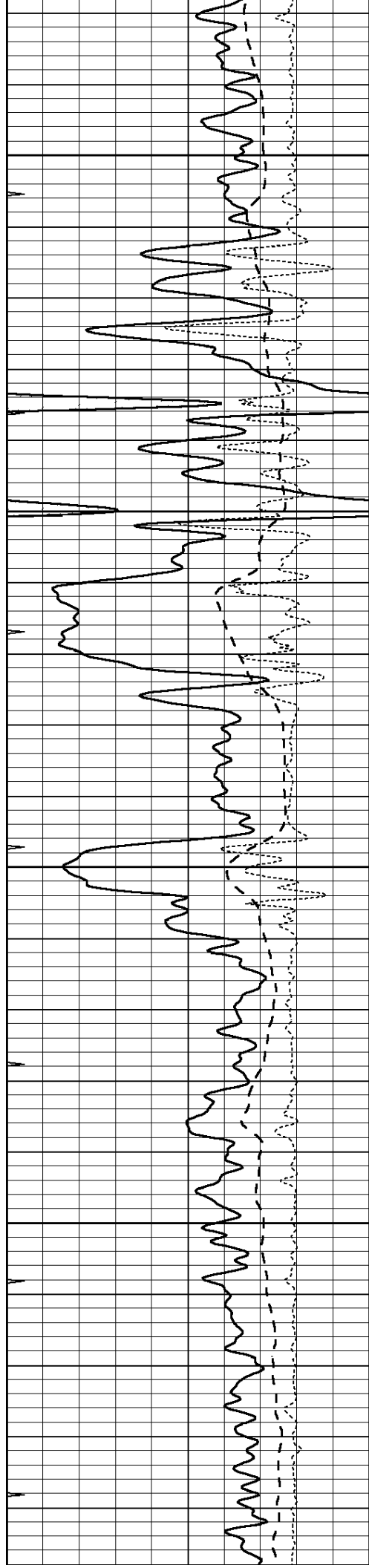
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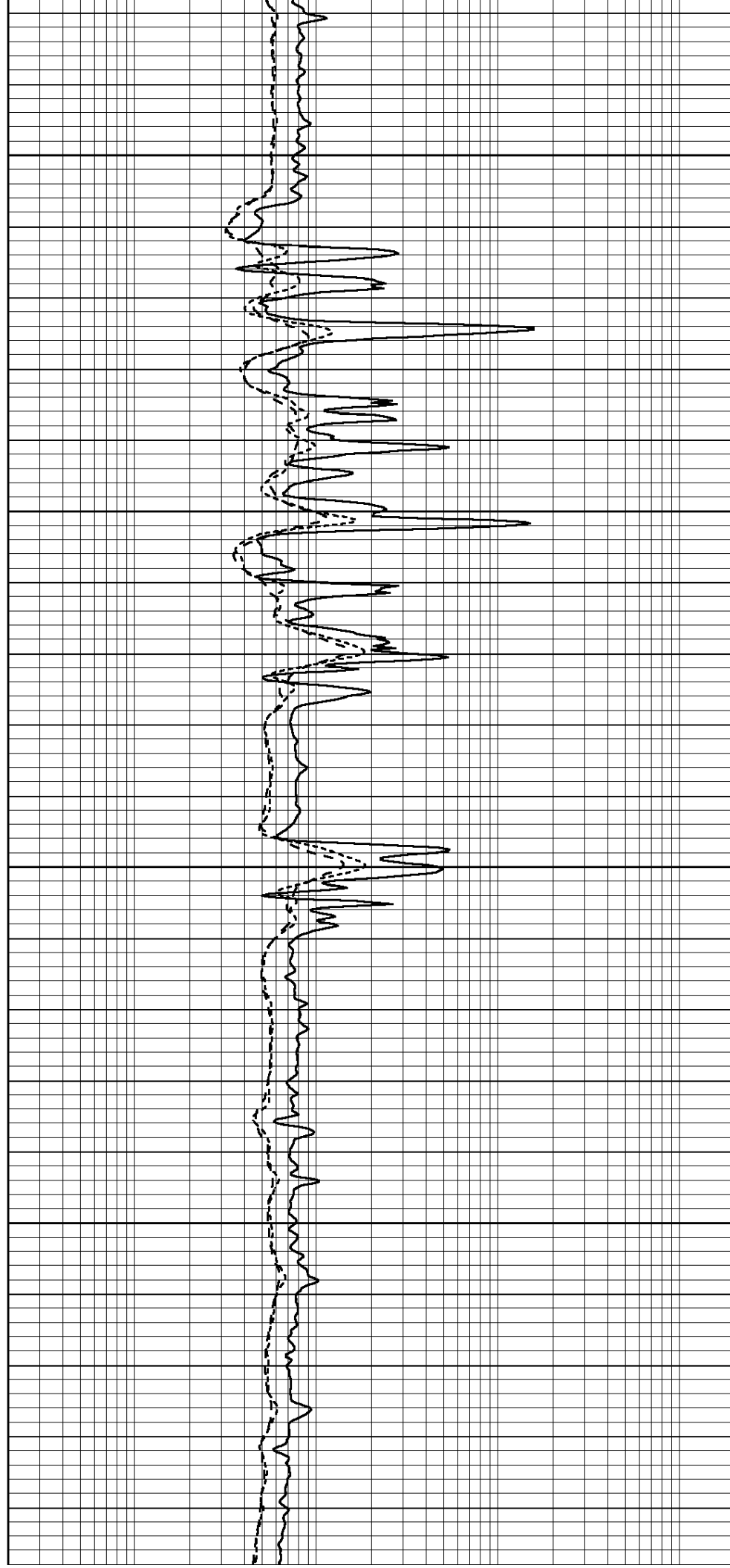


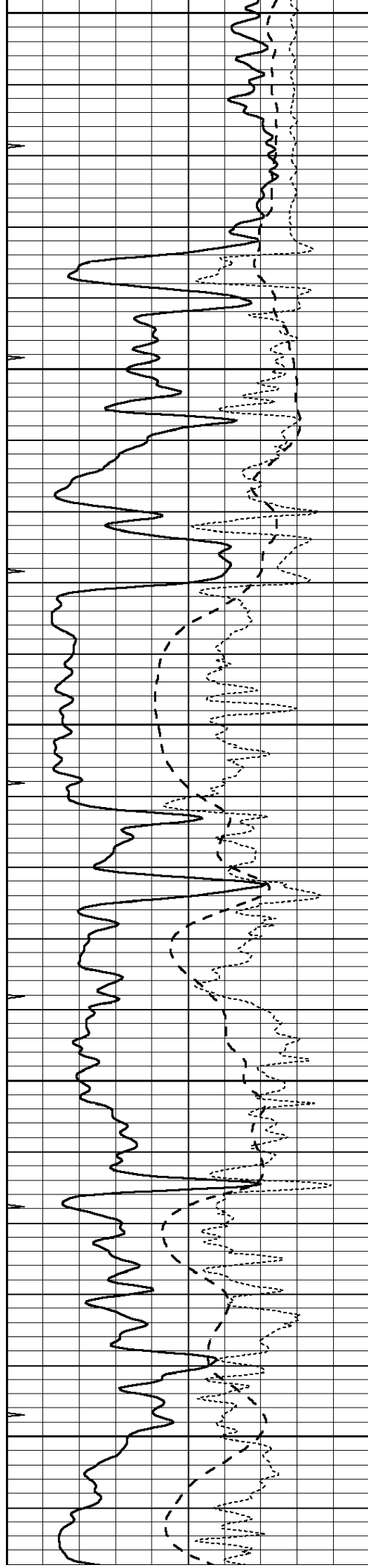
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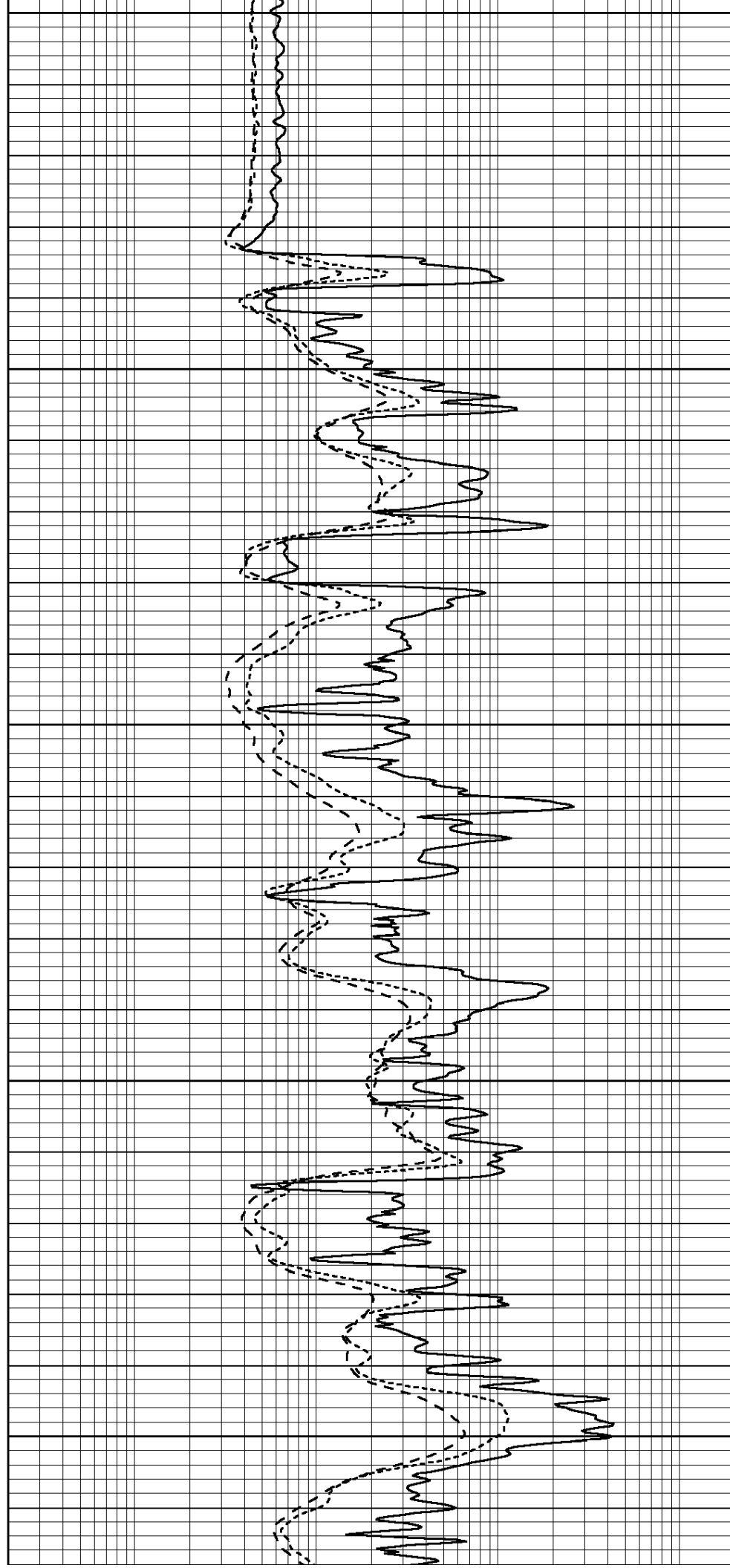
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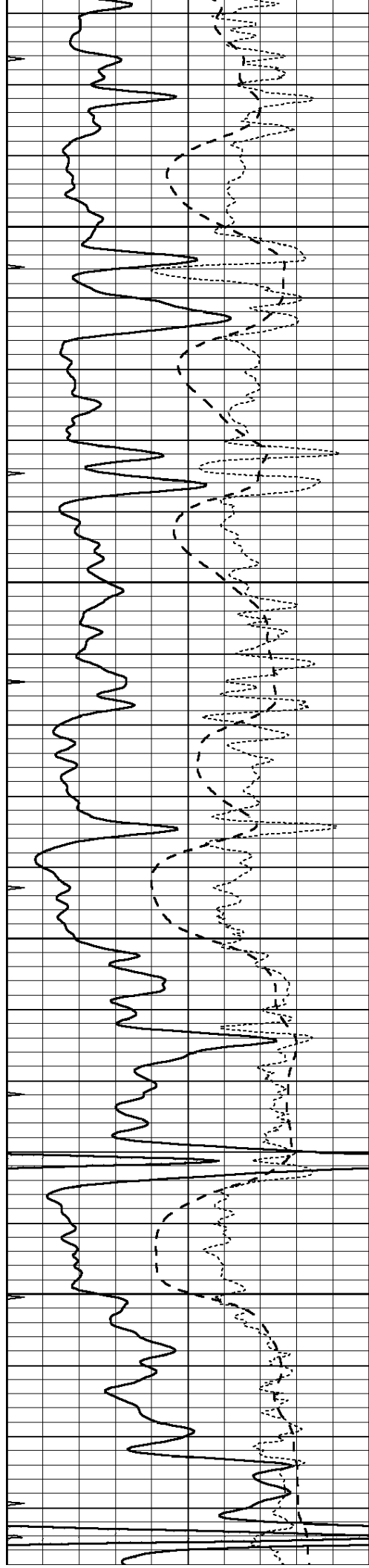
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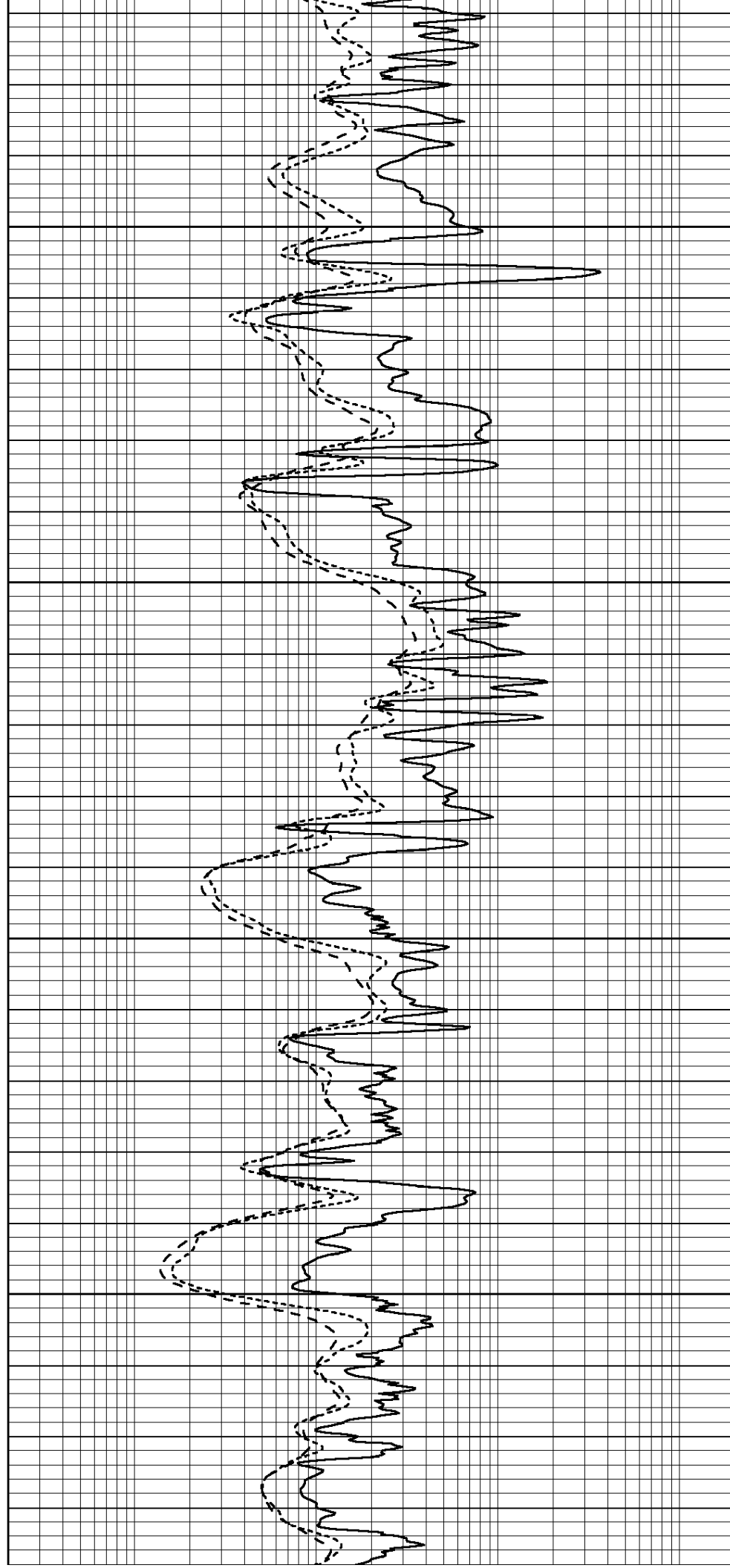


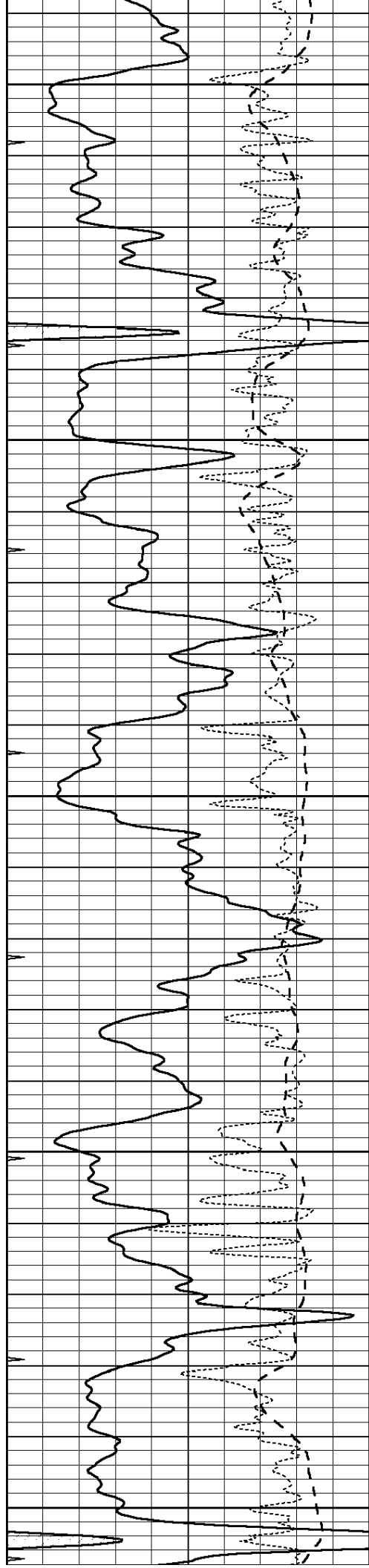
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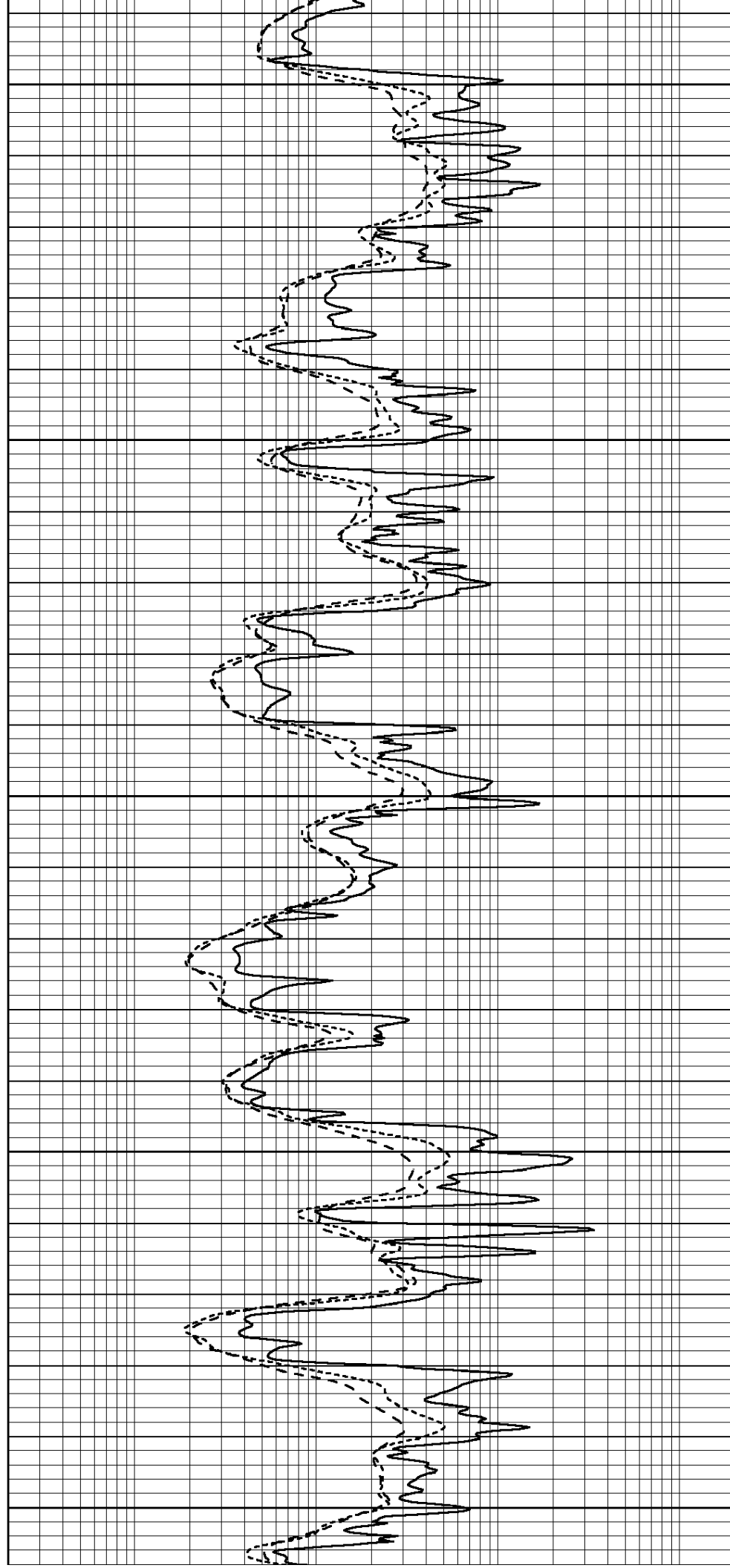
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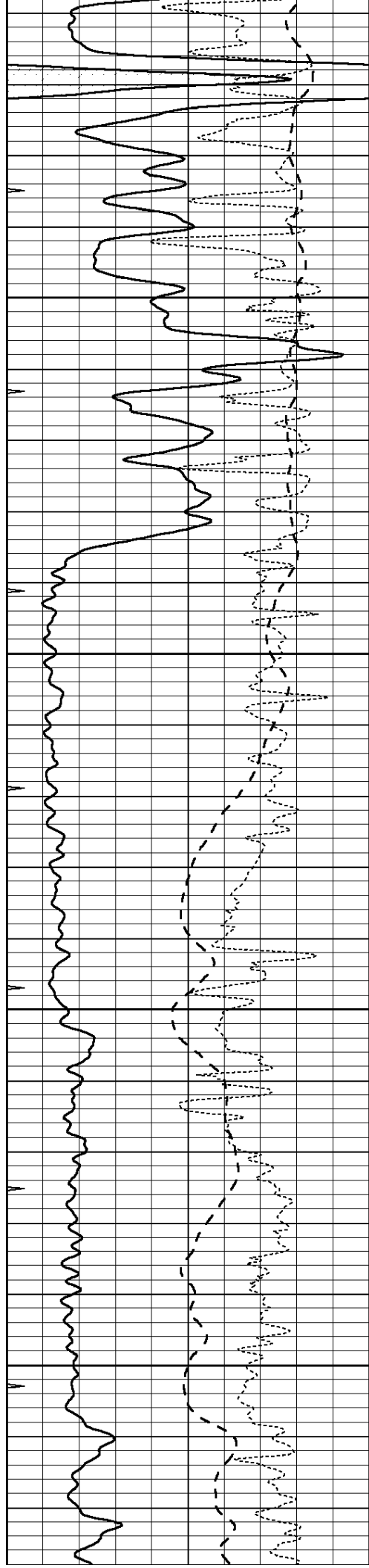
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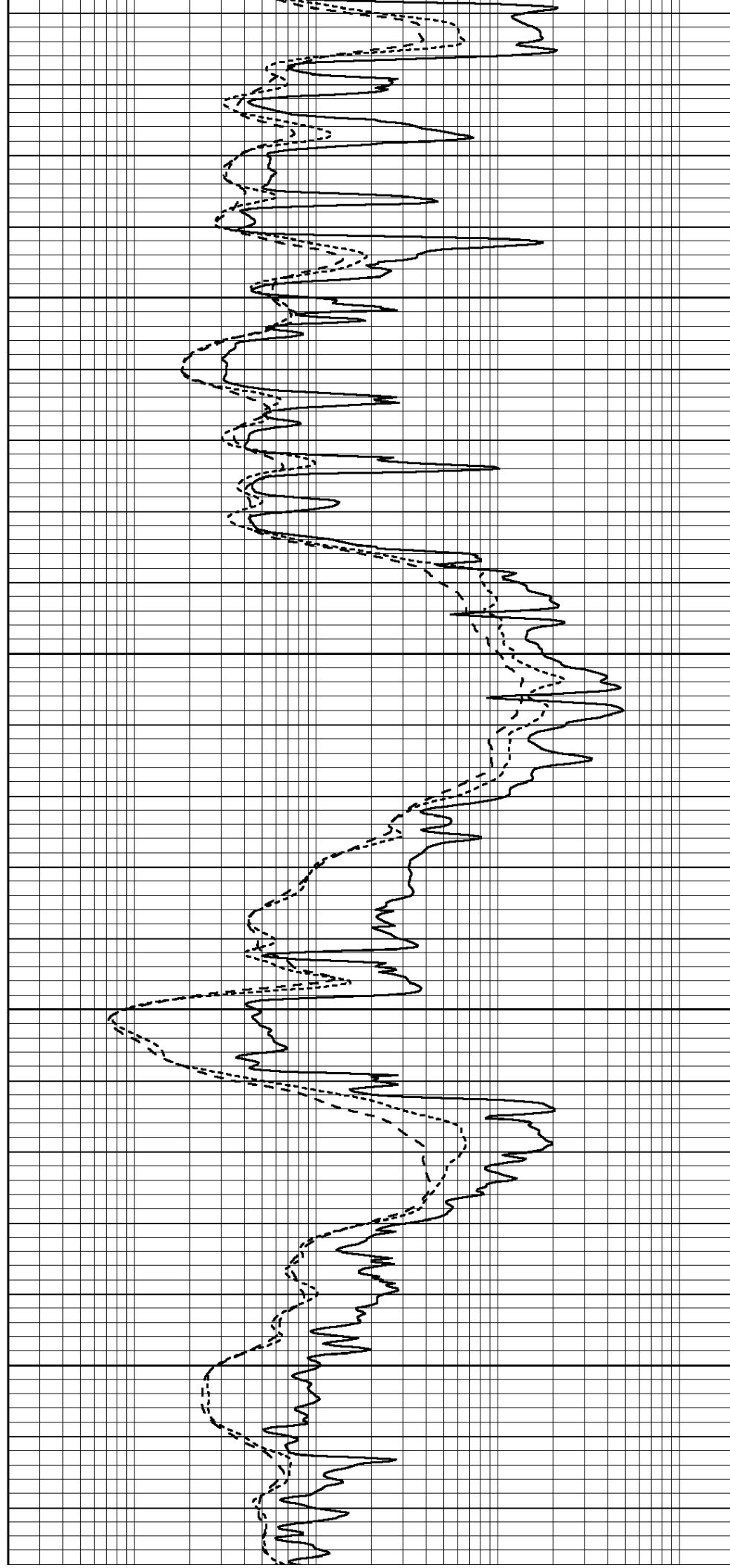


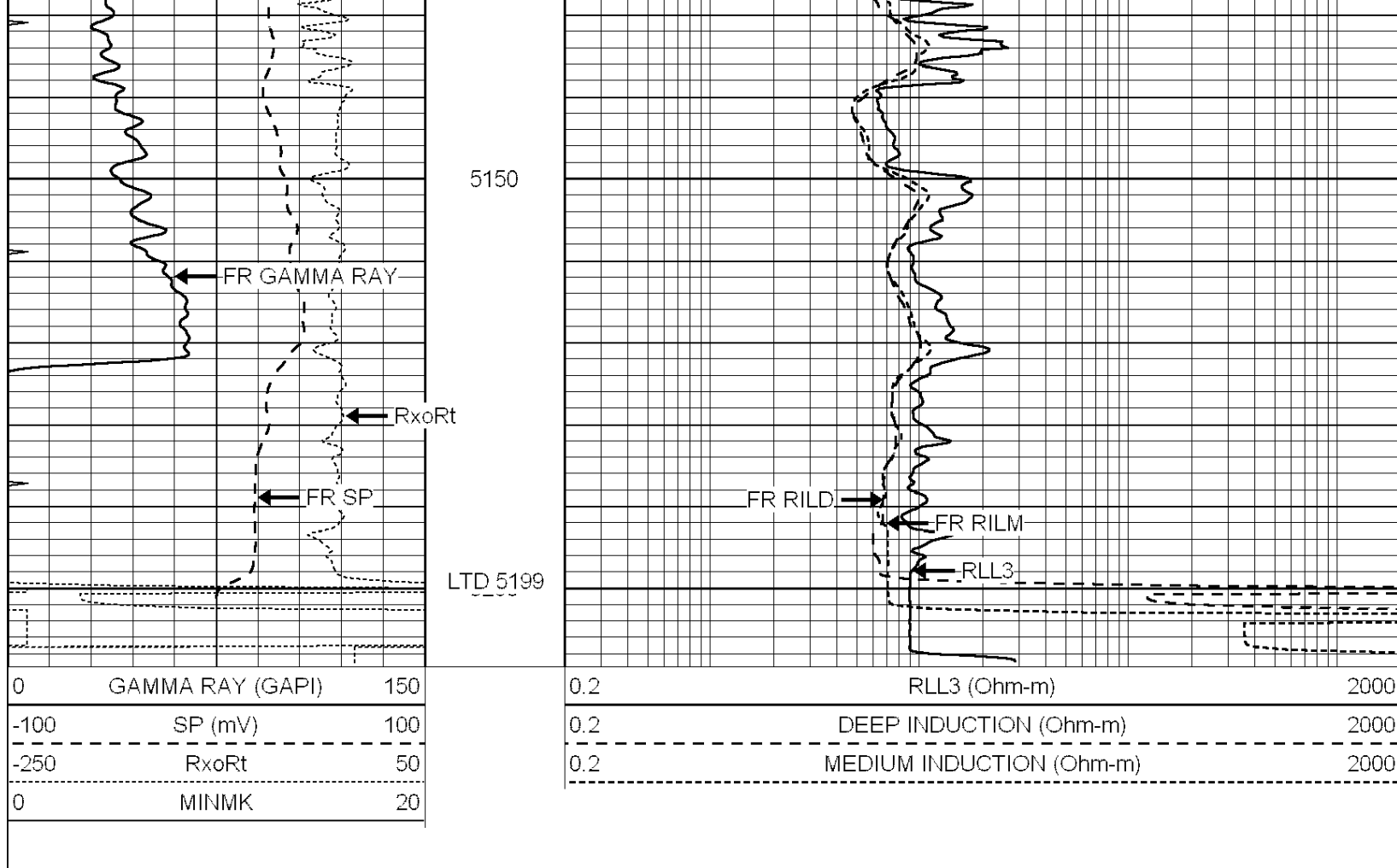
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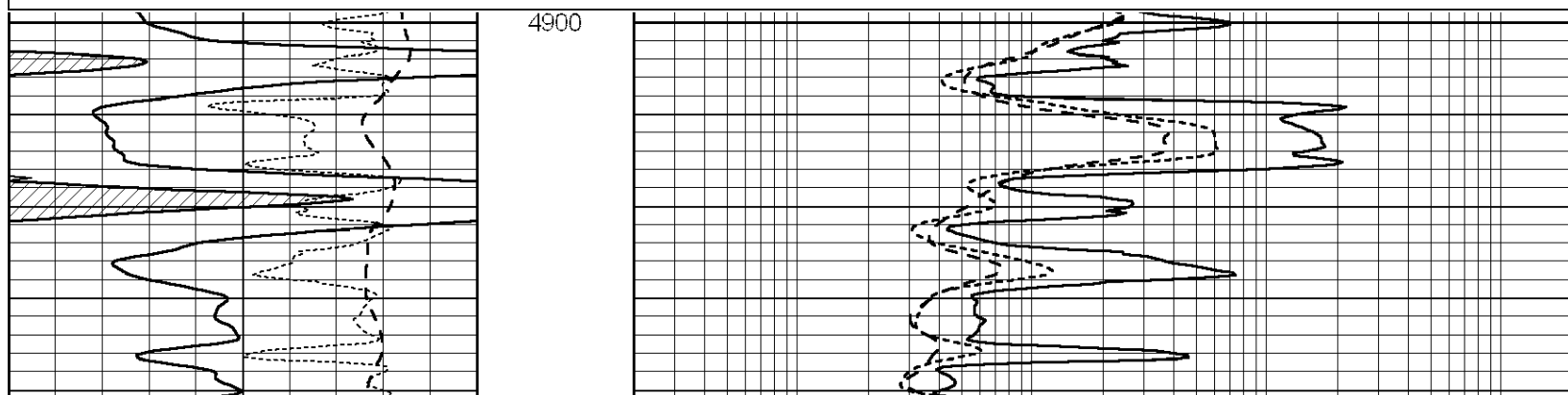
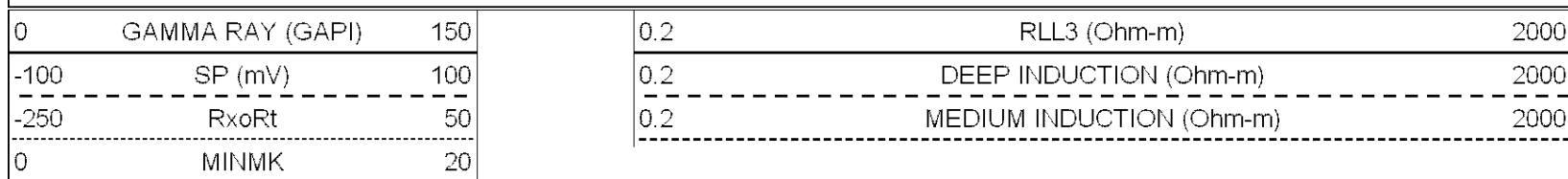


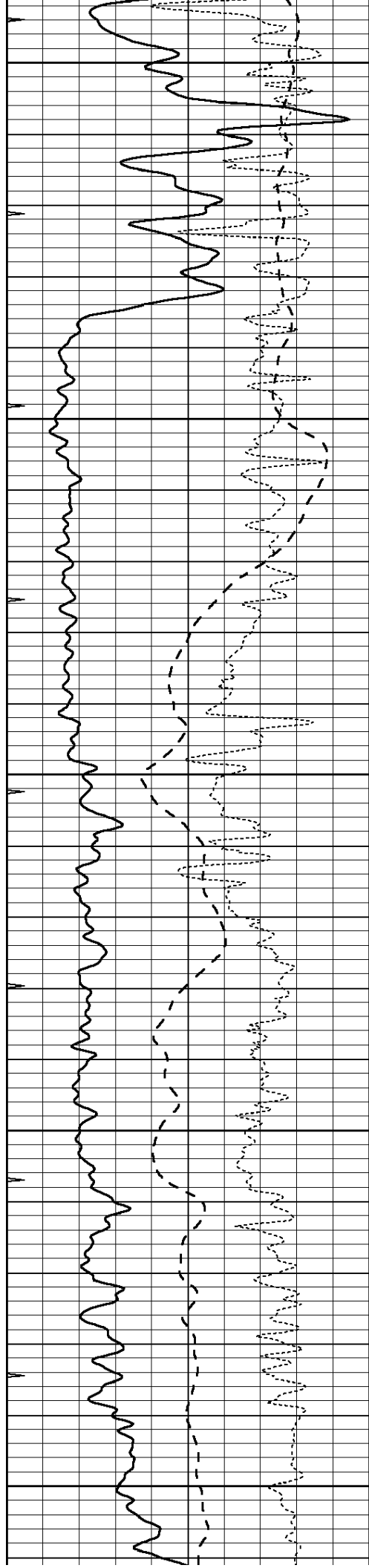


SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 9176ddn.db
 Dataset Pathname: pass3.4
 Presentation Format: dil
 Dataset Creation: Sat May 12 00:11:30 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





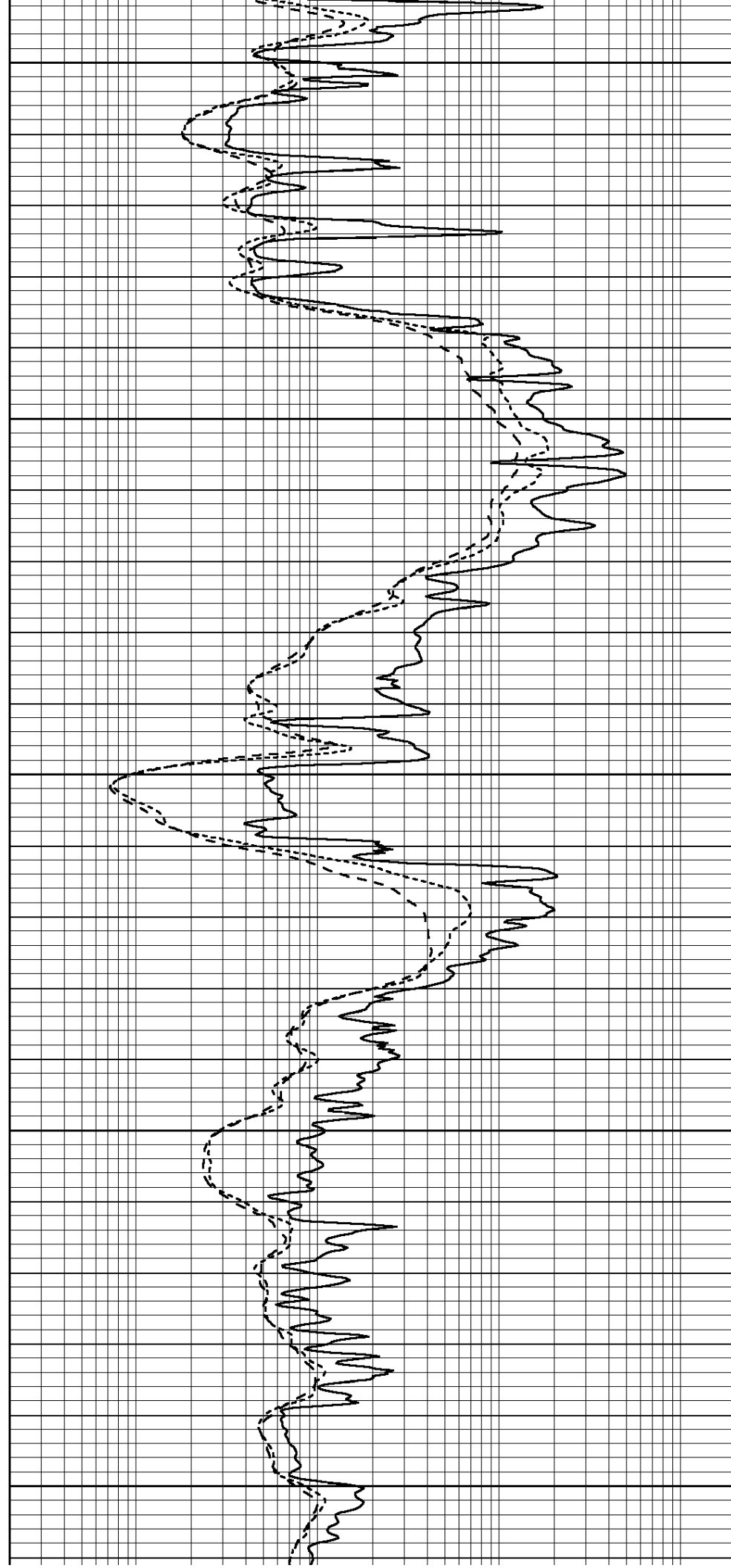
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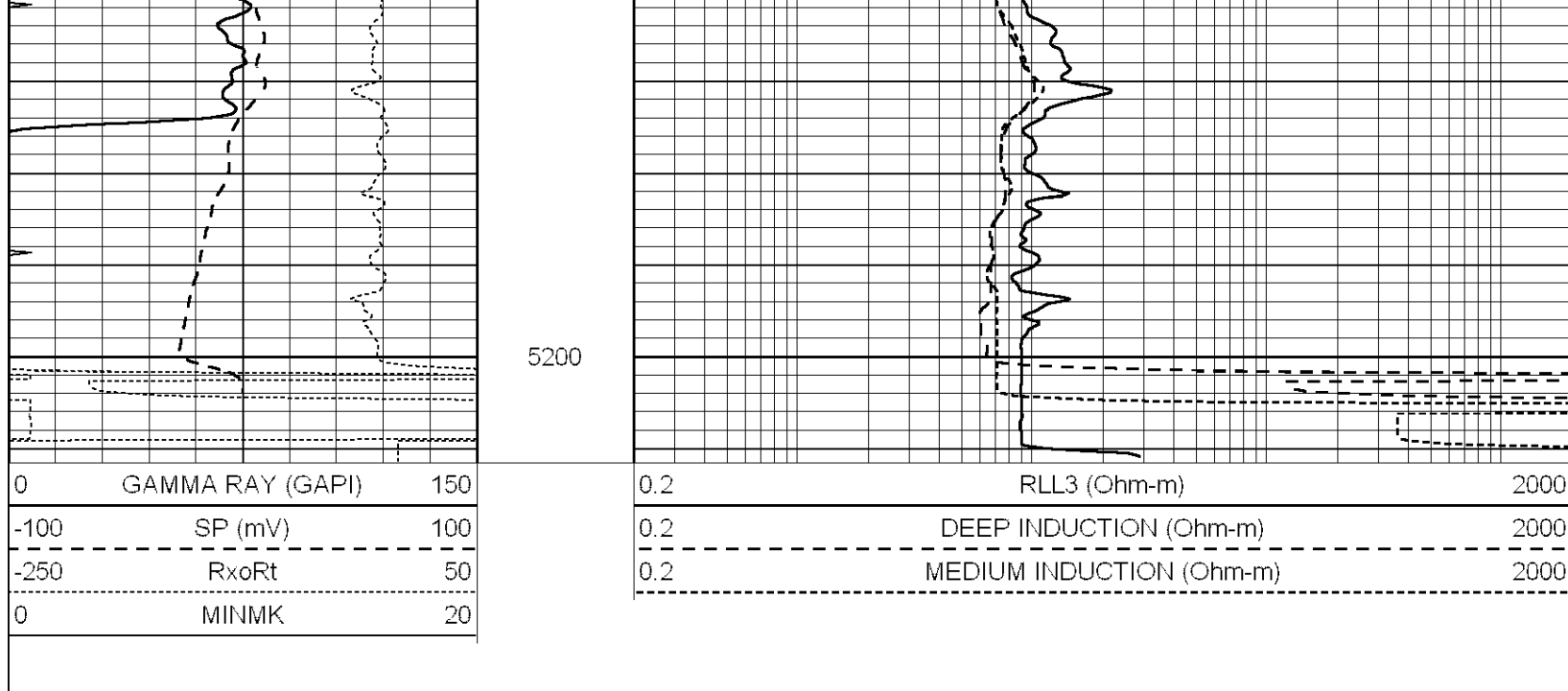
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5100

5150





Calibration Report

Database File: 9176ddn.db
 Dataset Pathname: pass1
 Dataset Creation: Fri May 11 21:16:48 2012 by Log Open-Cased 090629

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

Loop:	Readings			References			Results	
	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		

LLS	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	9.00	in	4.01	V
Large Ring	14.00	in	5.67	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 07:14:18 2012		
Calibrator Value:		1.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		1.0	cps	
Sensitivity:		0.6300	GAPI/cps	