



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION INC.		
Well	DURLER-SCHMIDT #1		
Field	FORD		
County	FORD	State	KANSAS
Location:	API # : 15-057-20851-00-00		Other Services
150'N & 40'W OF NW¼NW¼NE		CDL/CNL	
180' FNL & 2350' FEL			
SEC 14 TWP 26S RGE 23W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2428
Log Measured From	KELLY BUSHING 11' A.G.L.	K.B. 2439	
Drilling Measured From	KELLY BUSHING	D.F. 2437	
		G.L. 2428	
Date	11/3/12		
Run Number	ONE		
Depth Driller	5130		
Depth Logger	5133		
Bottom Logged Interval	5131		
Top Log Interval	00		
Casing Driller	8 5/8"@350'		
Casing Logger	344		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8600 PPM	
Density / Viscosity	9.2/56		
pH / Fluid Loss	10.0/12.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.75@60F		
Rmf @ Meas. Temp	0.56@60F		
Rmc @ Meas. Temp	0.90@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.36@126F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	126F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	IAN MABB	JEFF GRONEWEG	
Witnessed By	DAVE WILLIAMS		

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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.

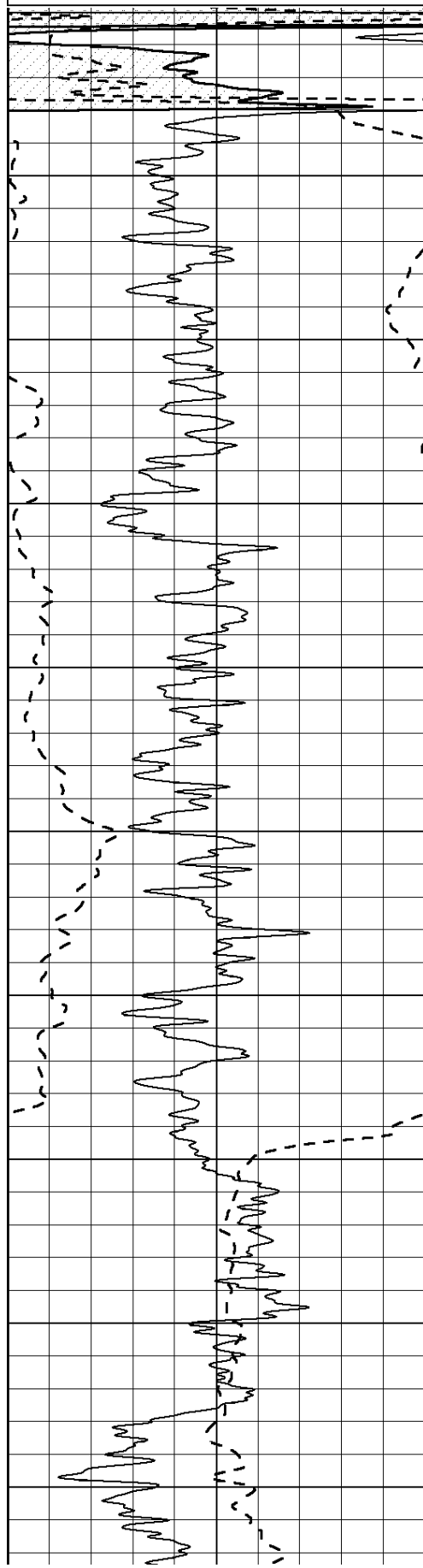
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
SPEARVILLE, KS - 2 1/2 MILES WEST SOUTH ON GARNETT RD - 1/2 EAST TO RD 123 - SOUTH 1 1/2 - WEST INTO

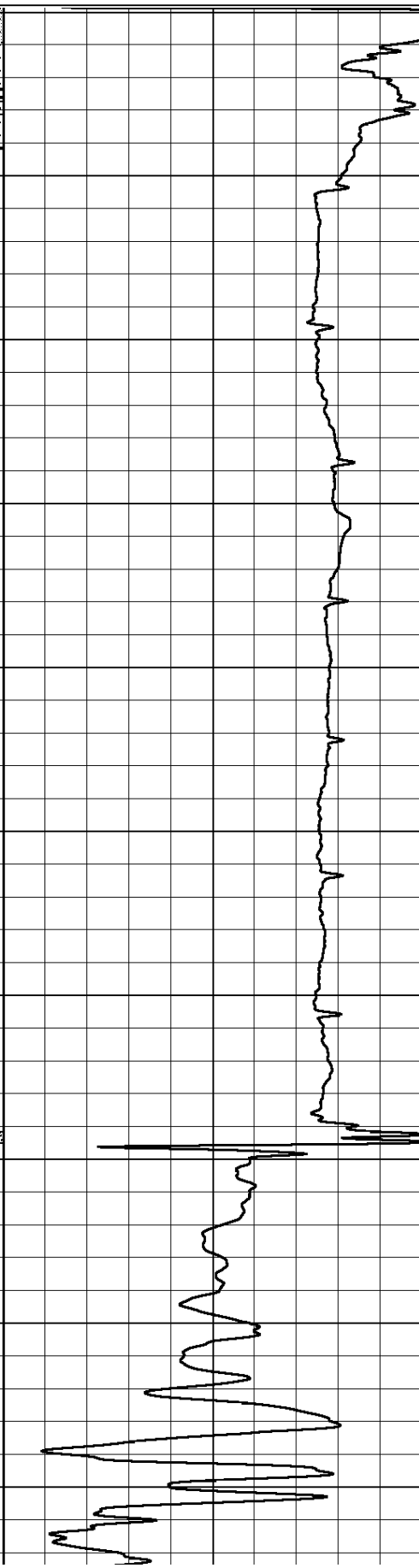
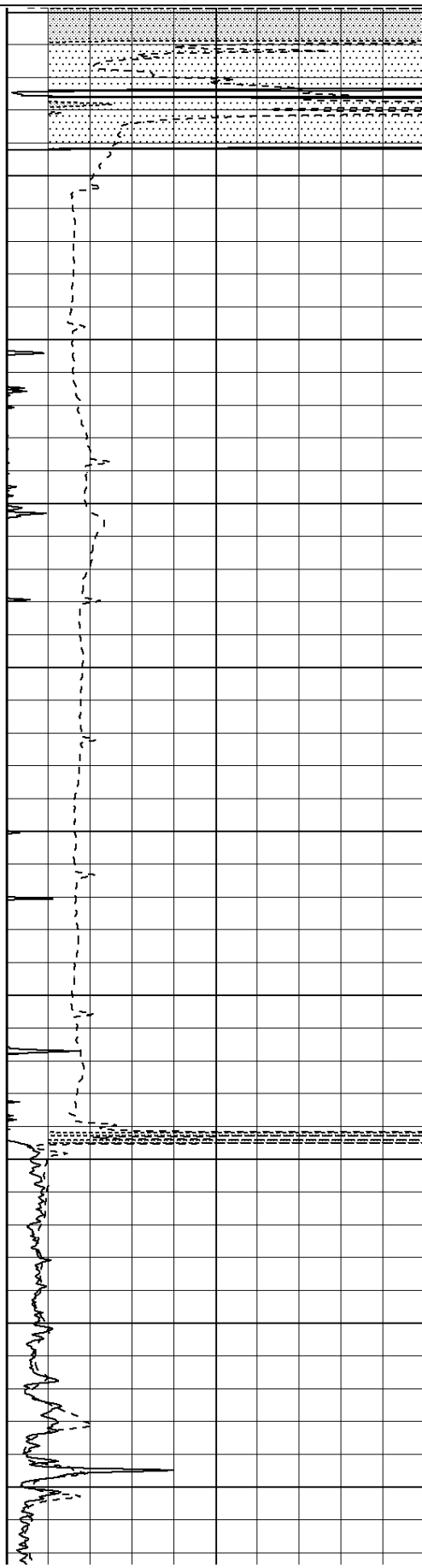
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-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50

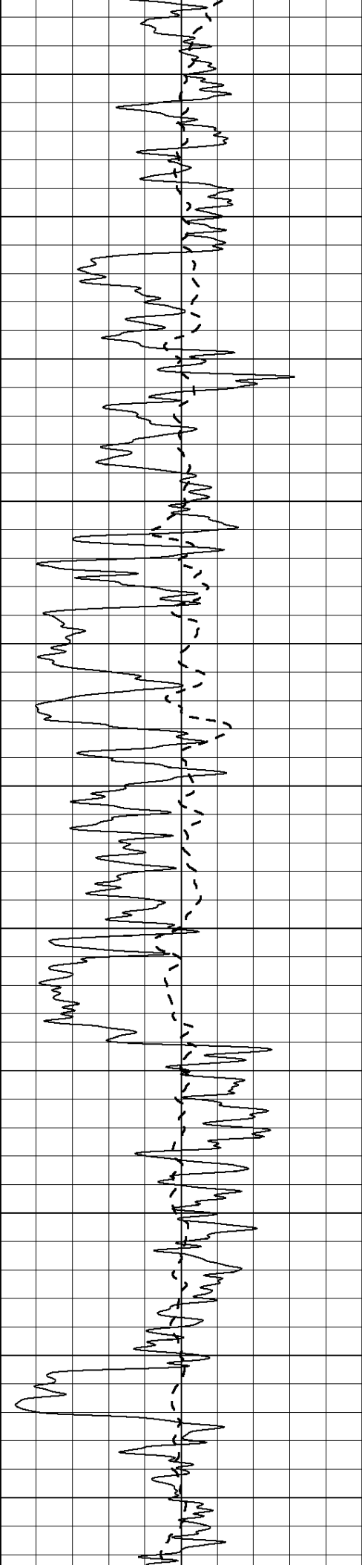
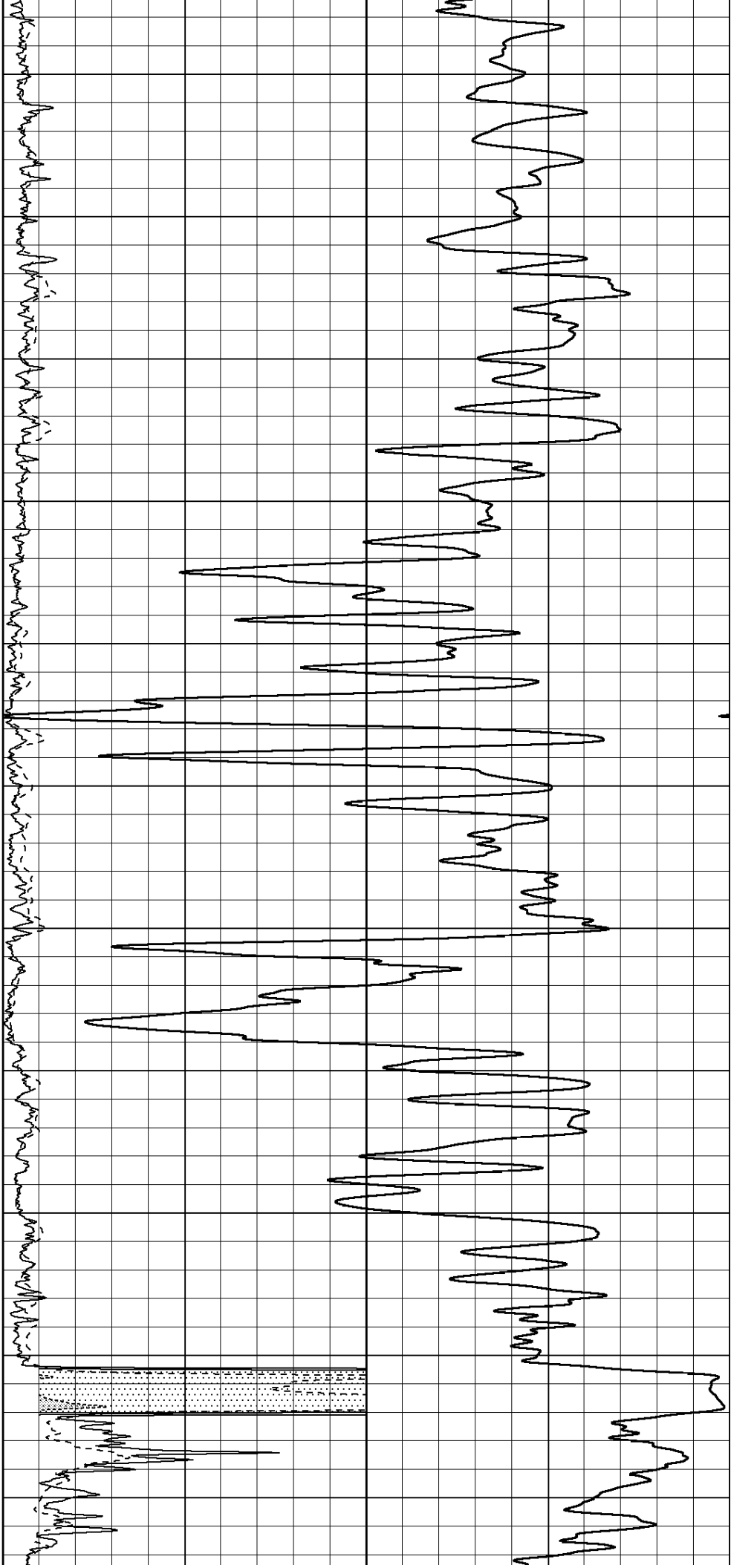
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

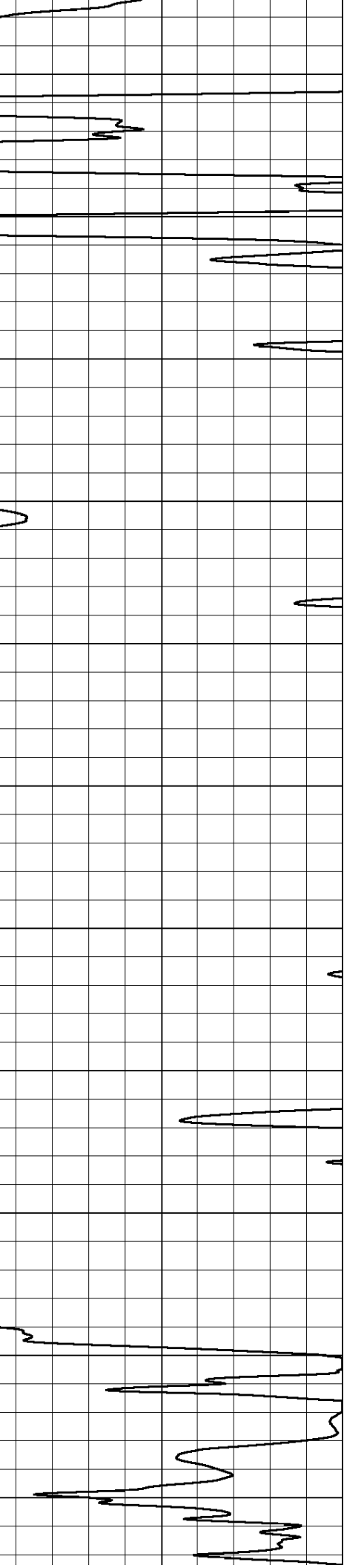
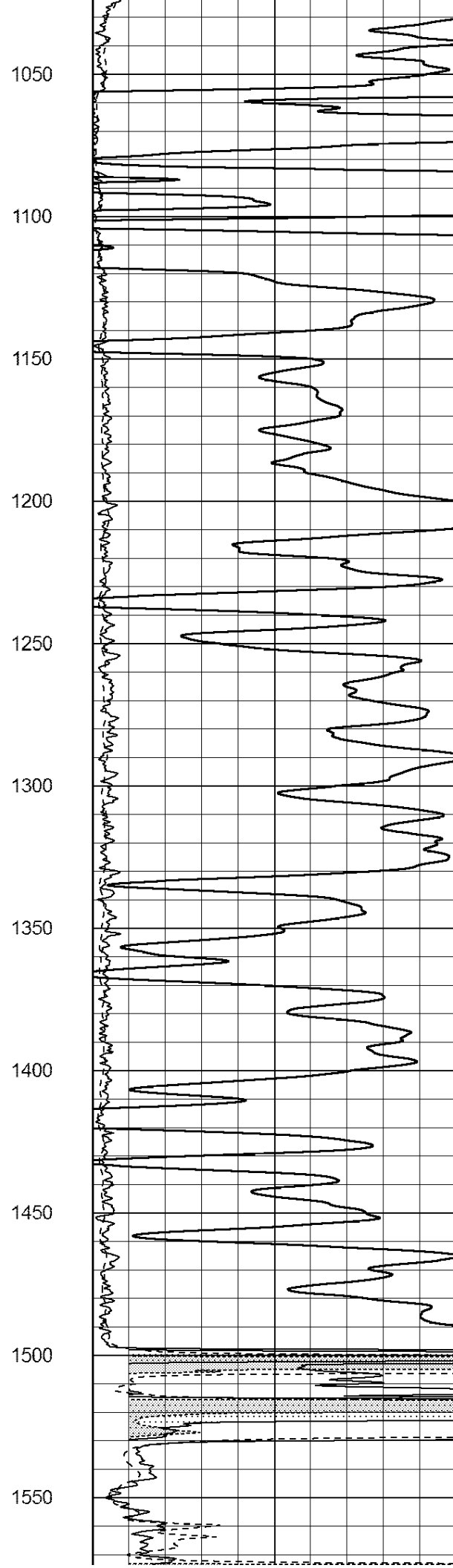
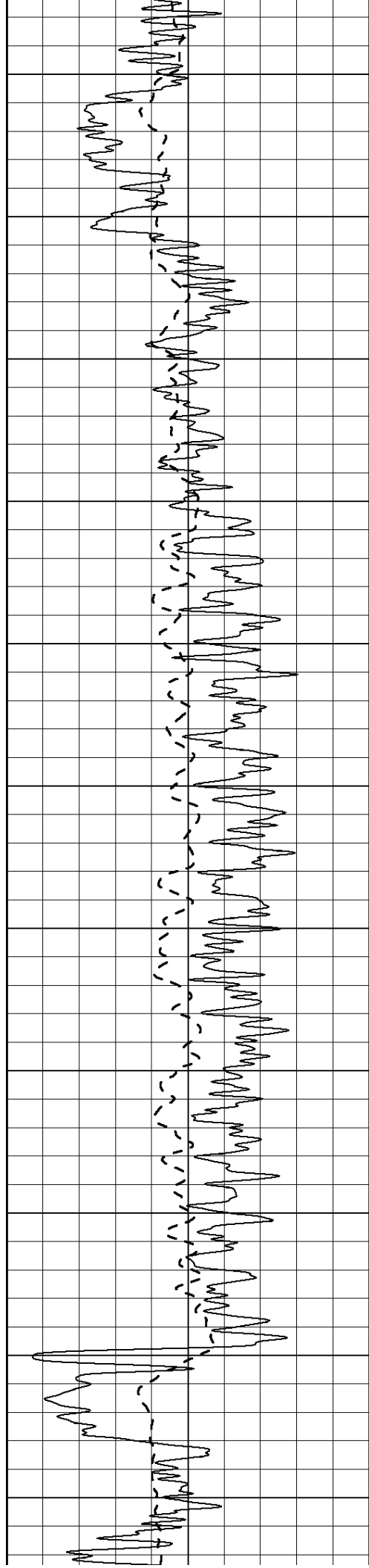


0
50
100
150
200
250
300
350
400
450



500 550 600 650 700 750 800 850 900 950 1000





1600

1650

1700

1750

1800

1850

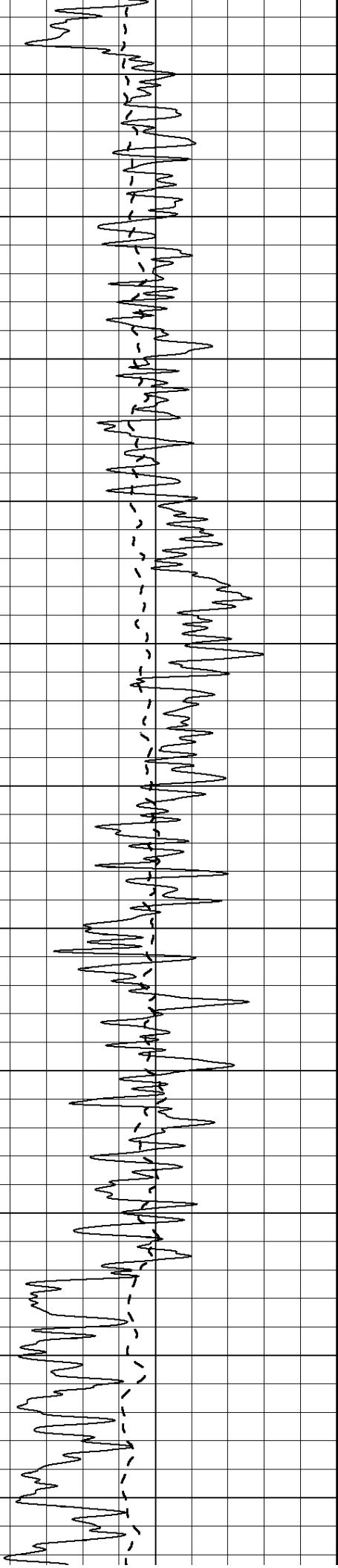
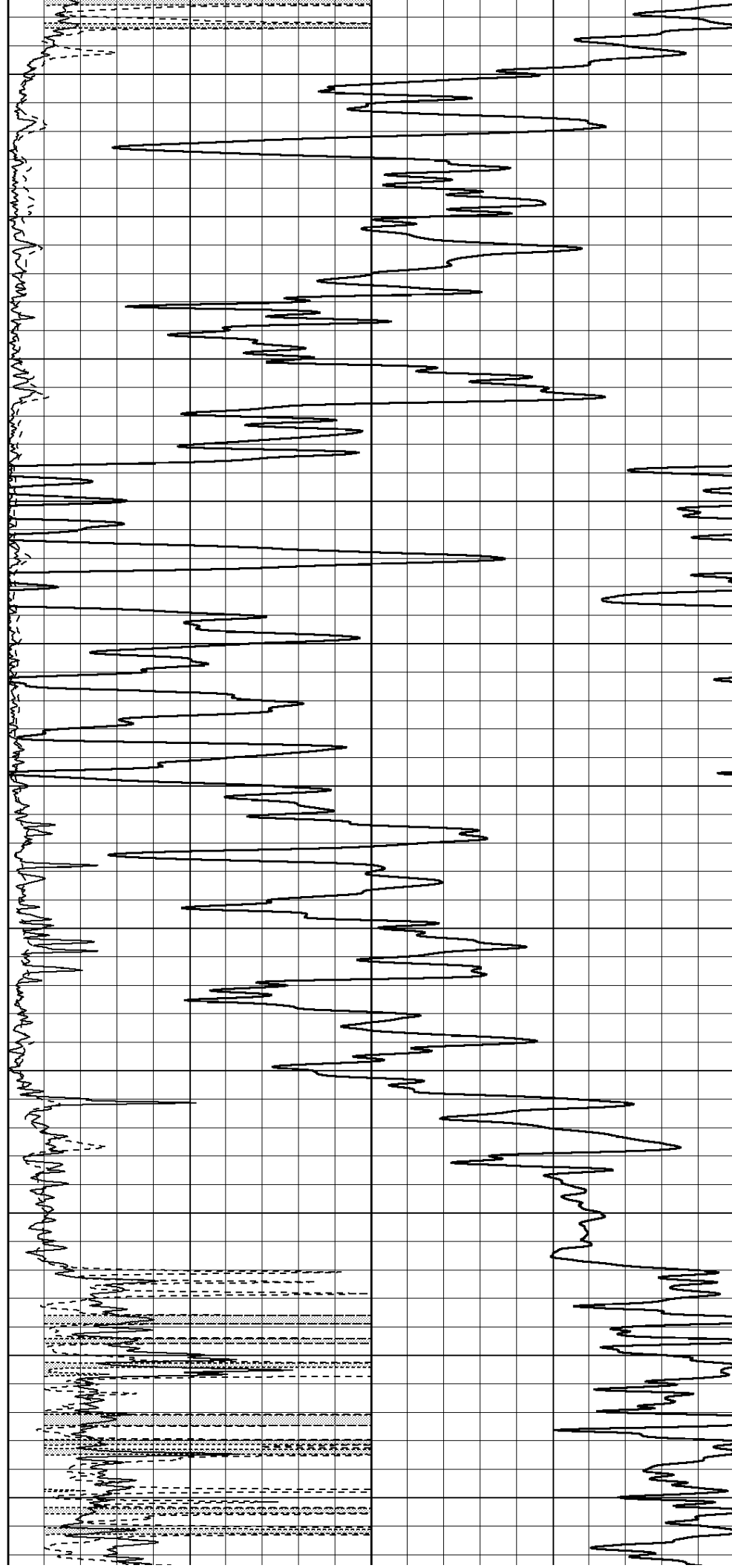
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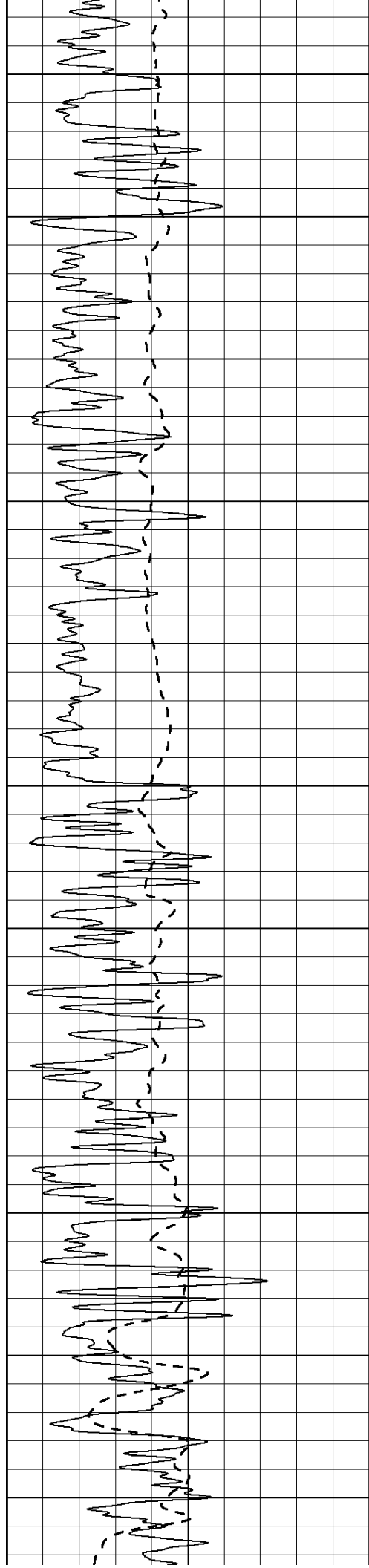
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2000

2050

2100





2150

2200

2250

2300

2350

2400

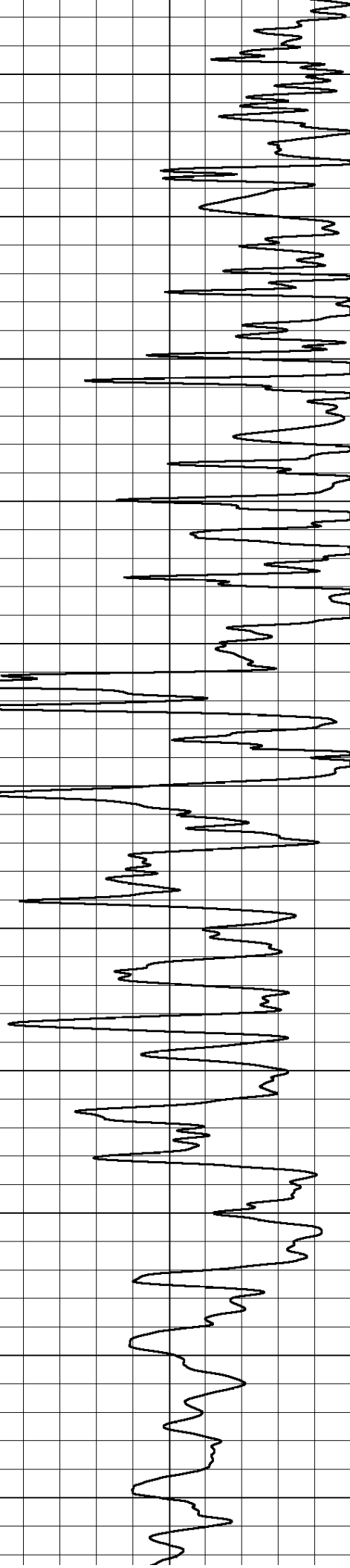
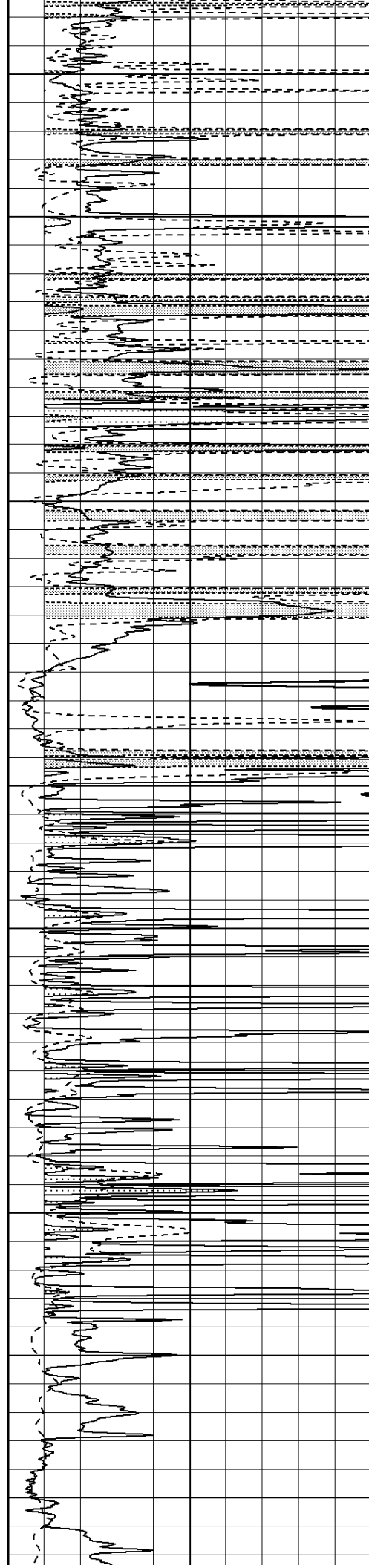
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2600

2650



2700

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2800

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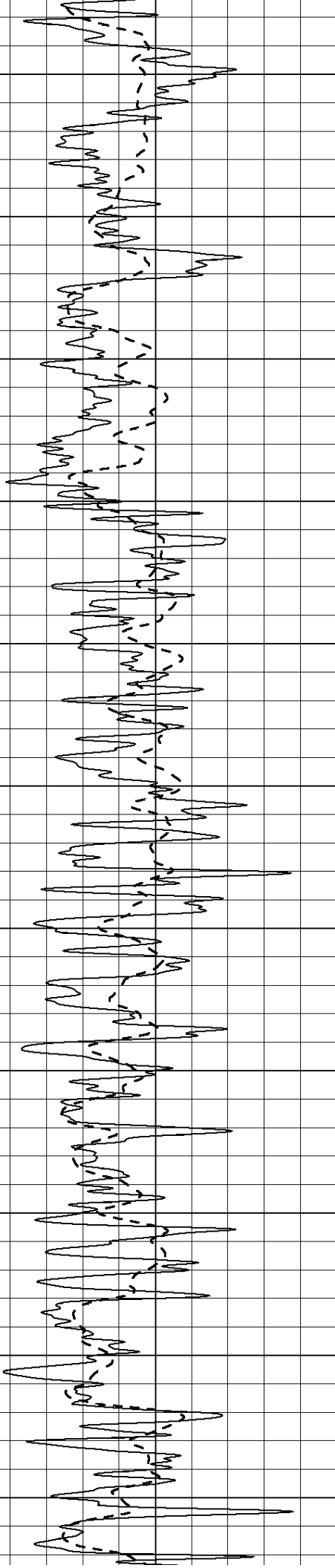
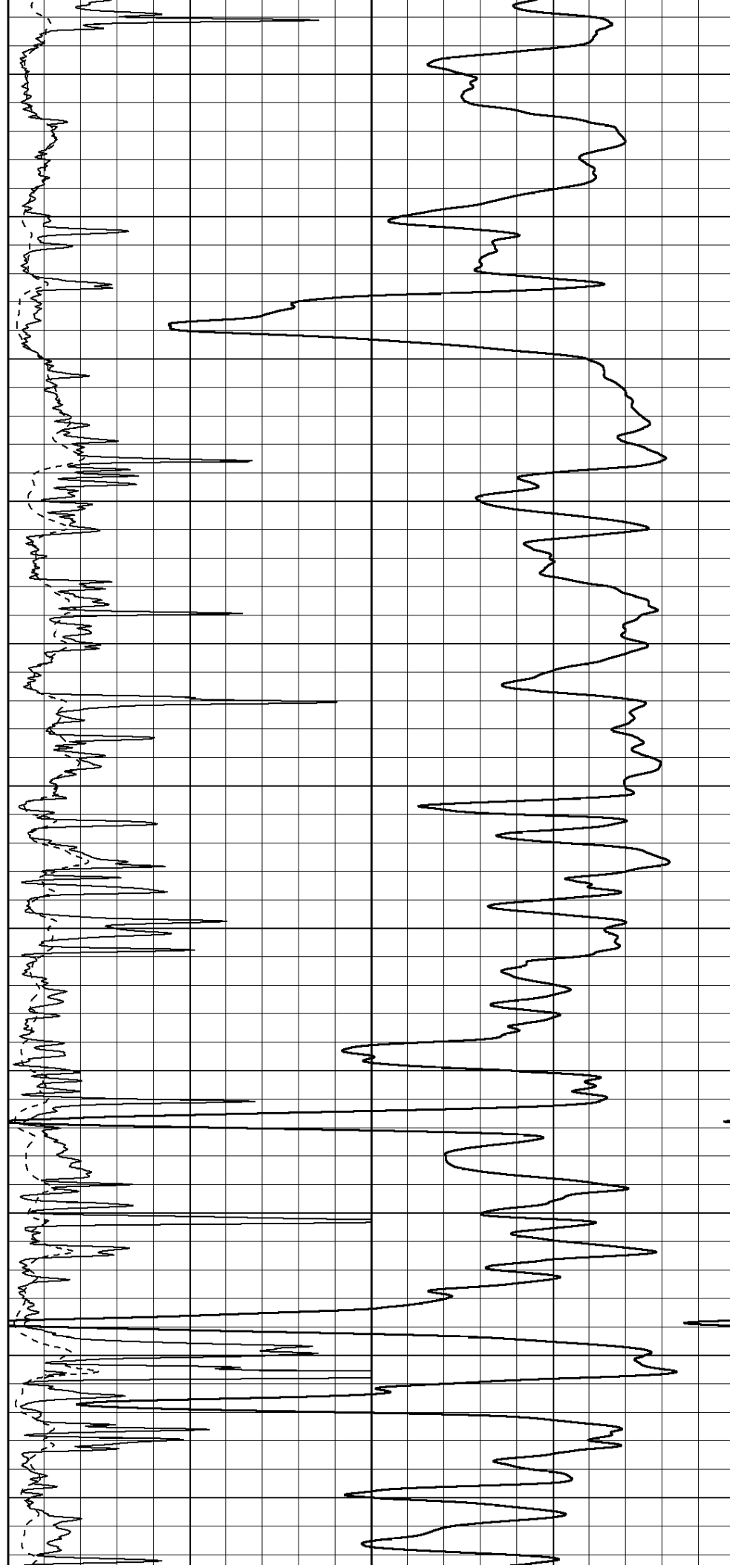
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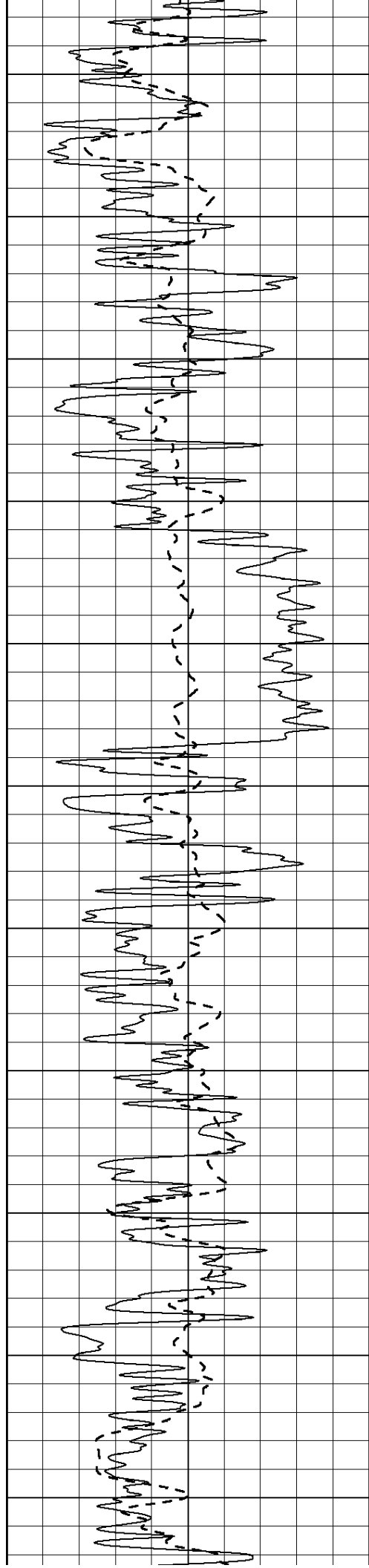
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3100

3150

3200





3250

3300

3350

3400

3450

3500

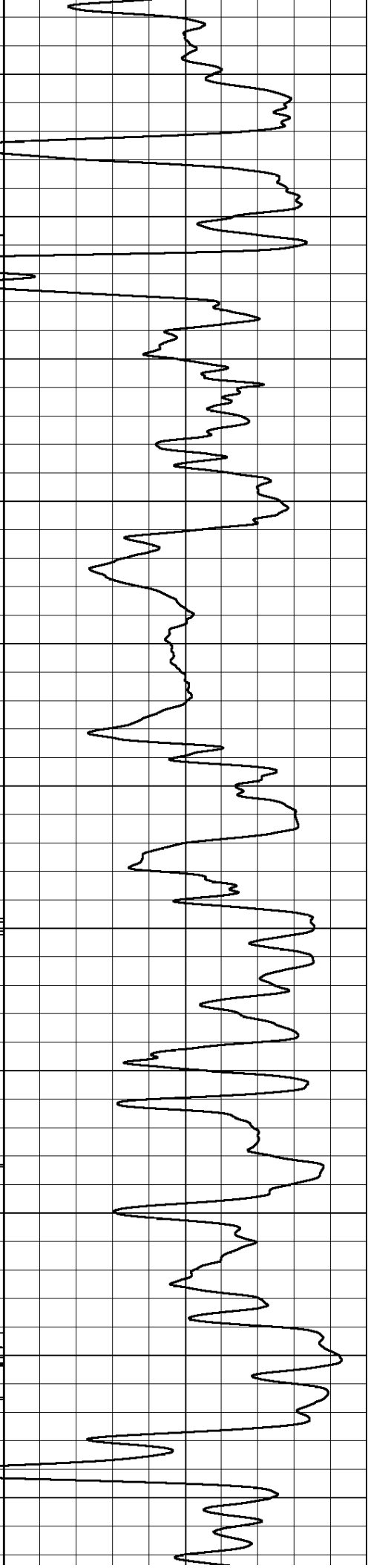
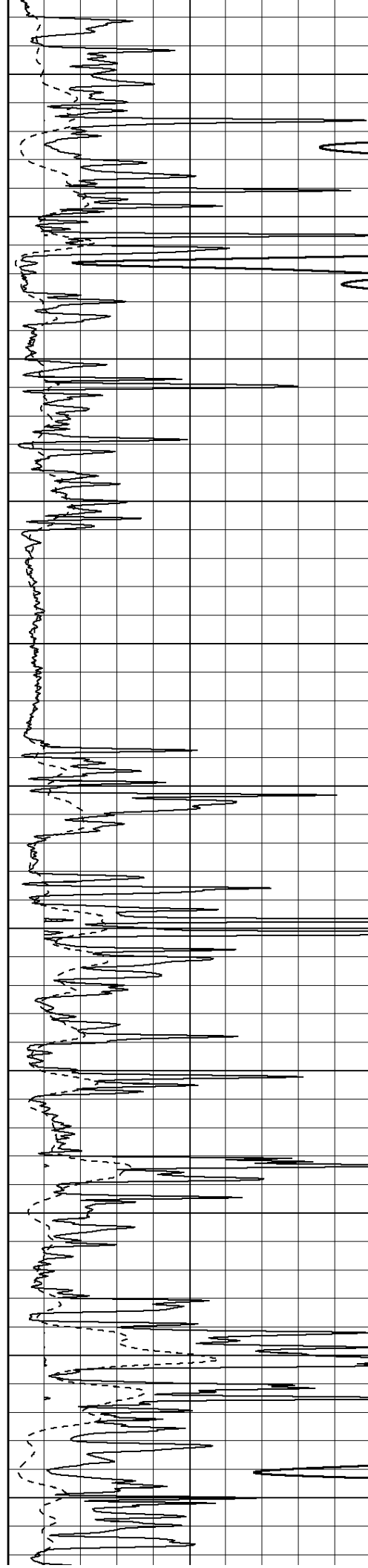
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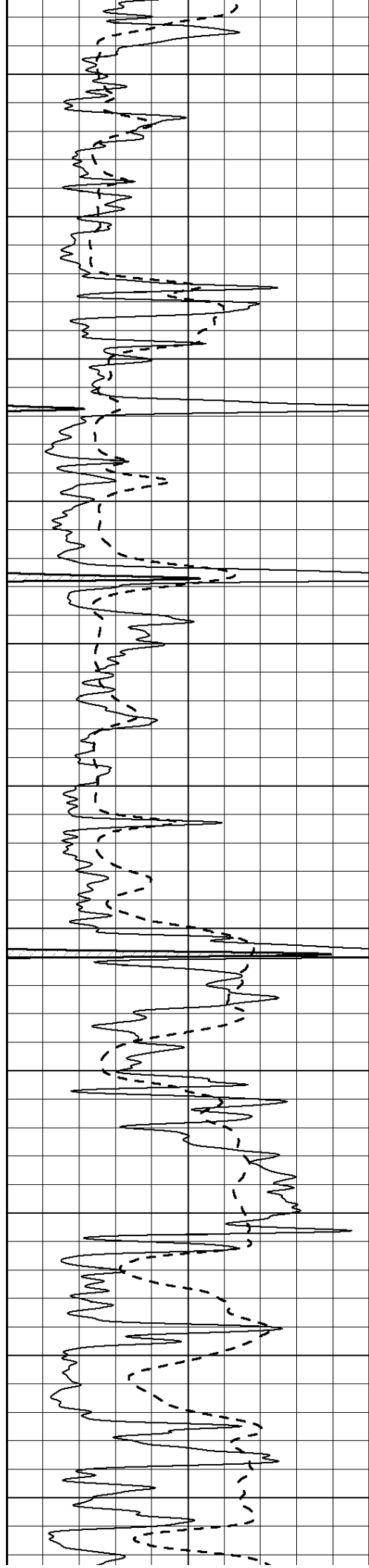
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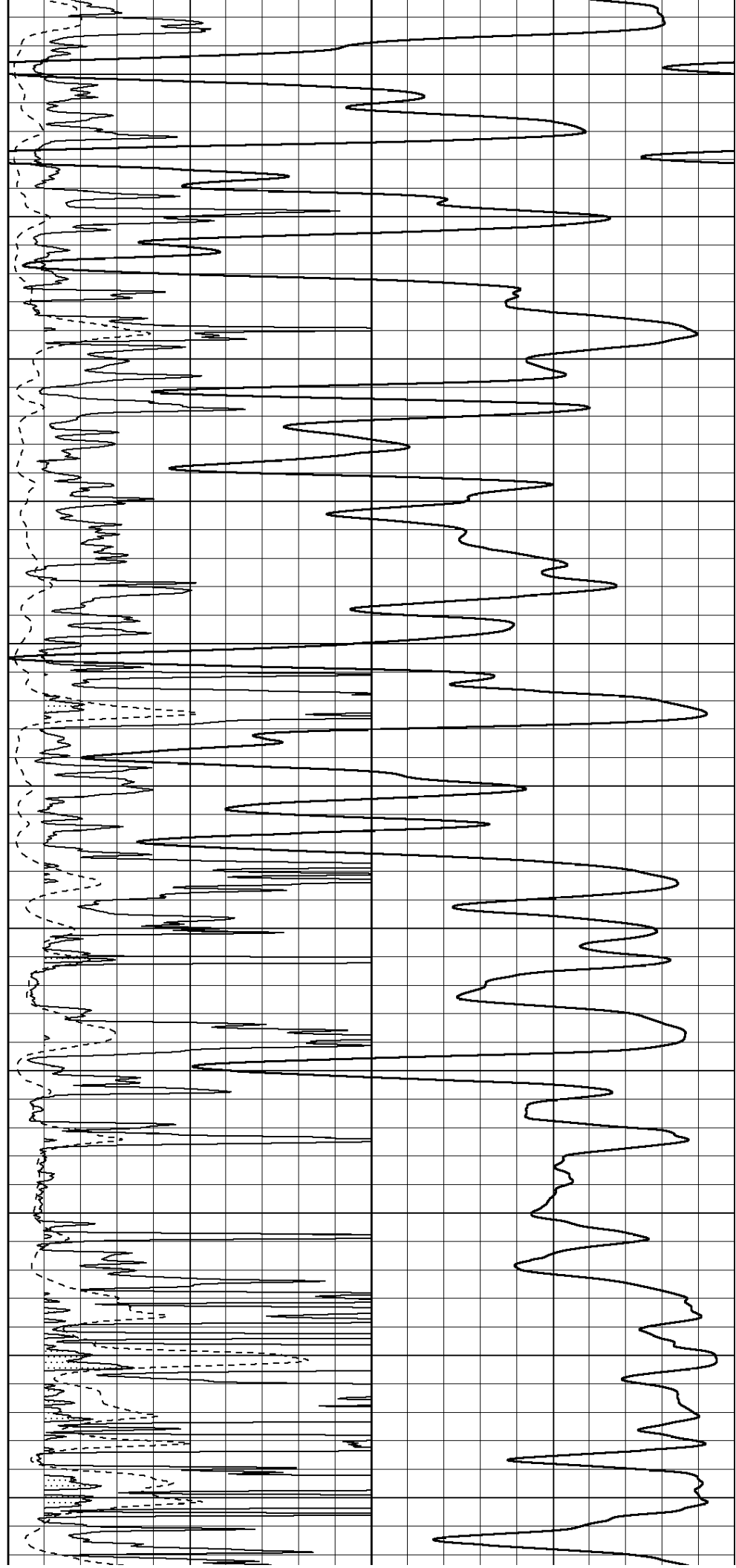
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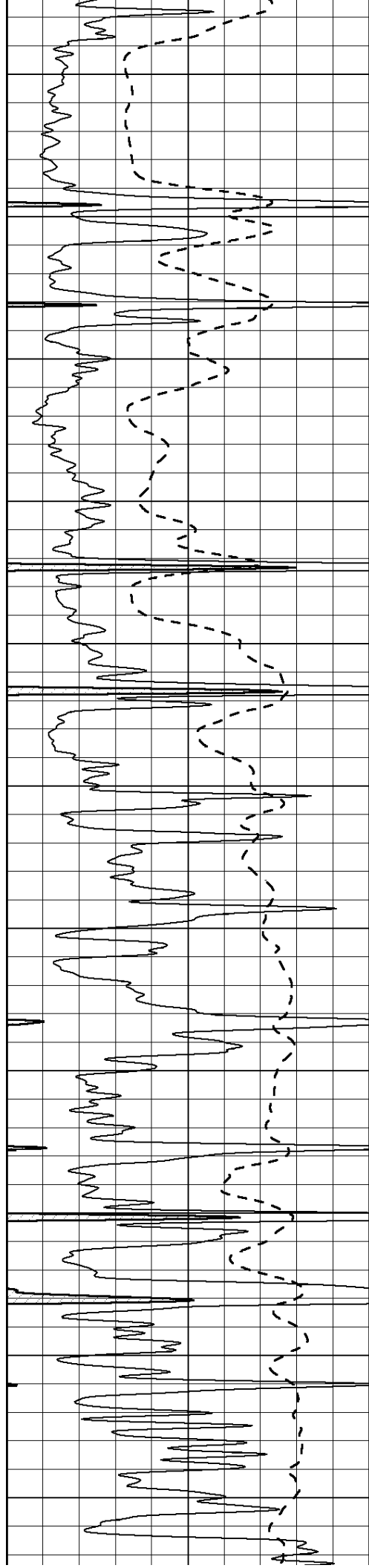
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4300





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4600

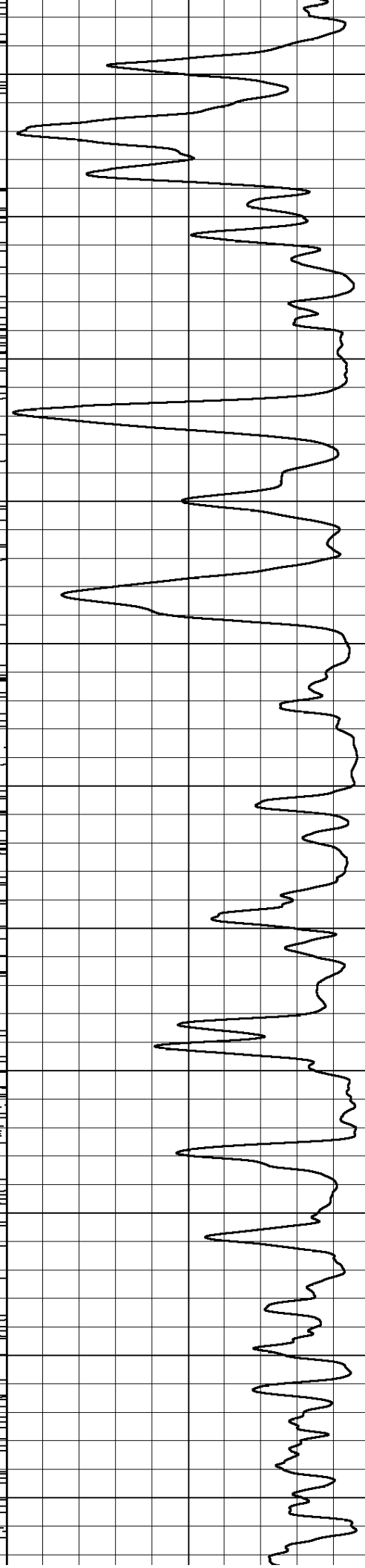
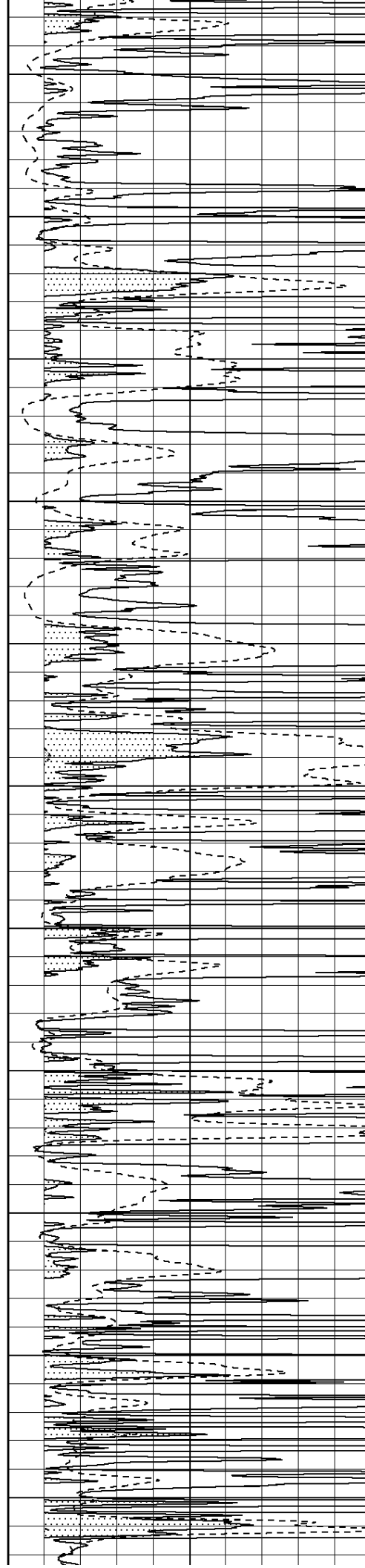
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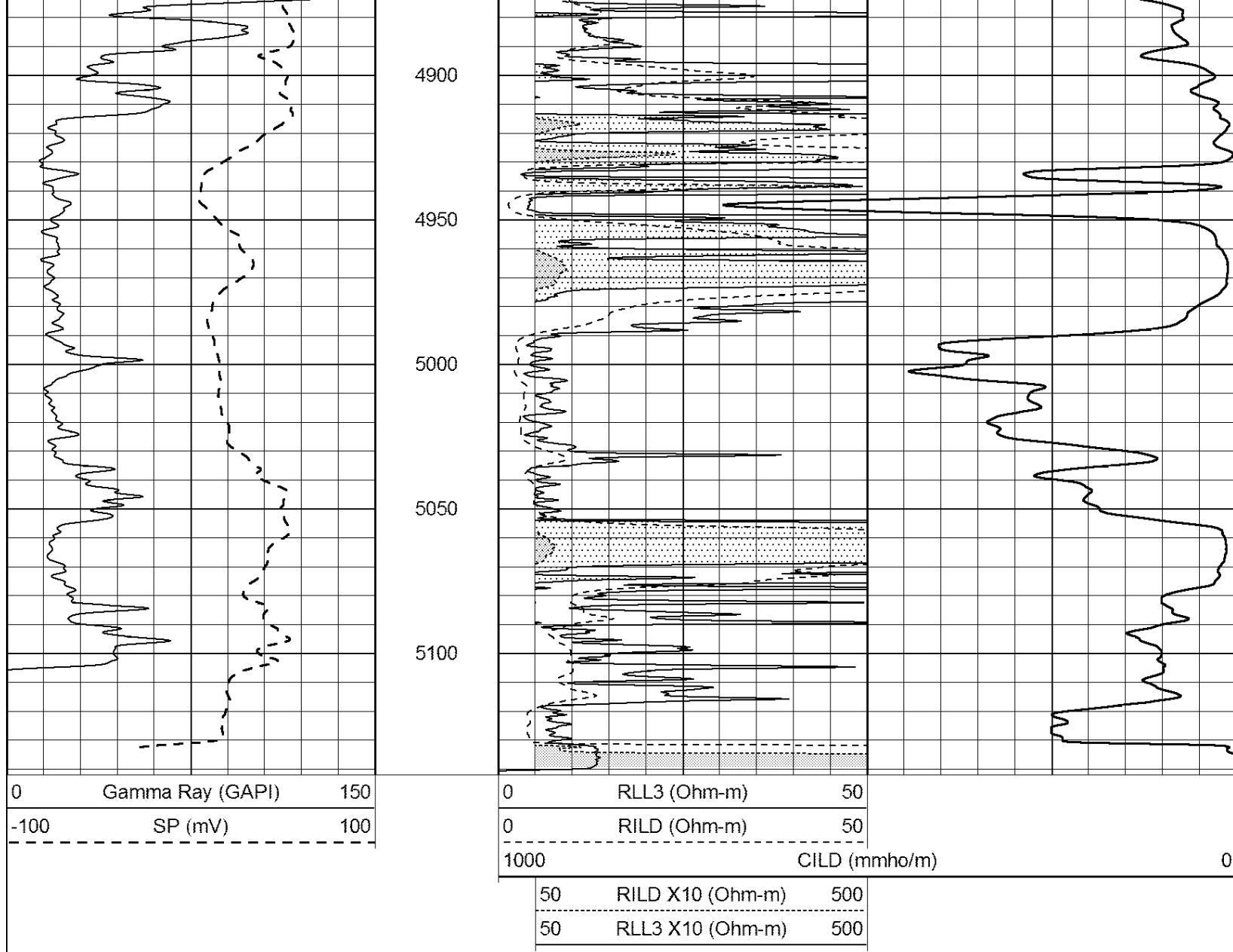
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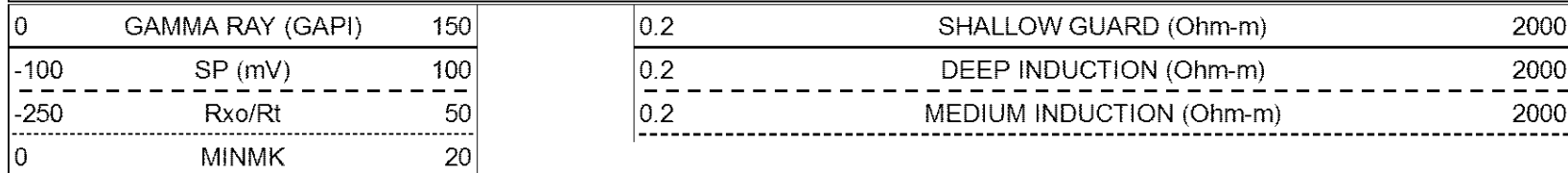
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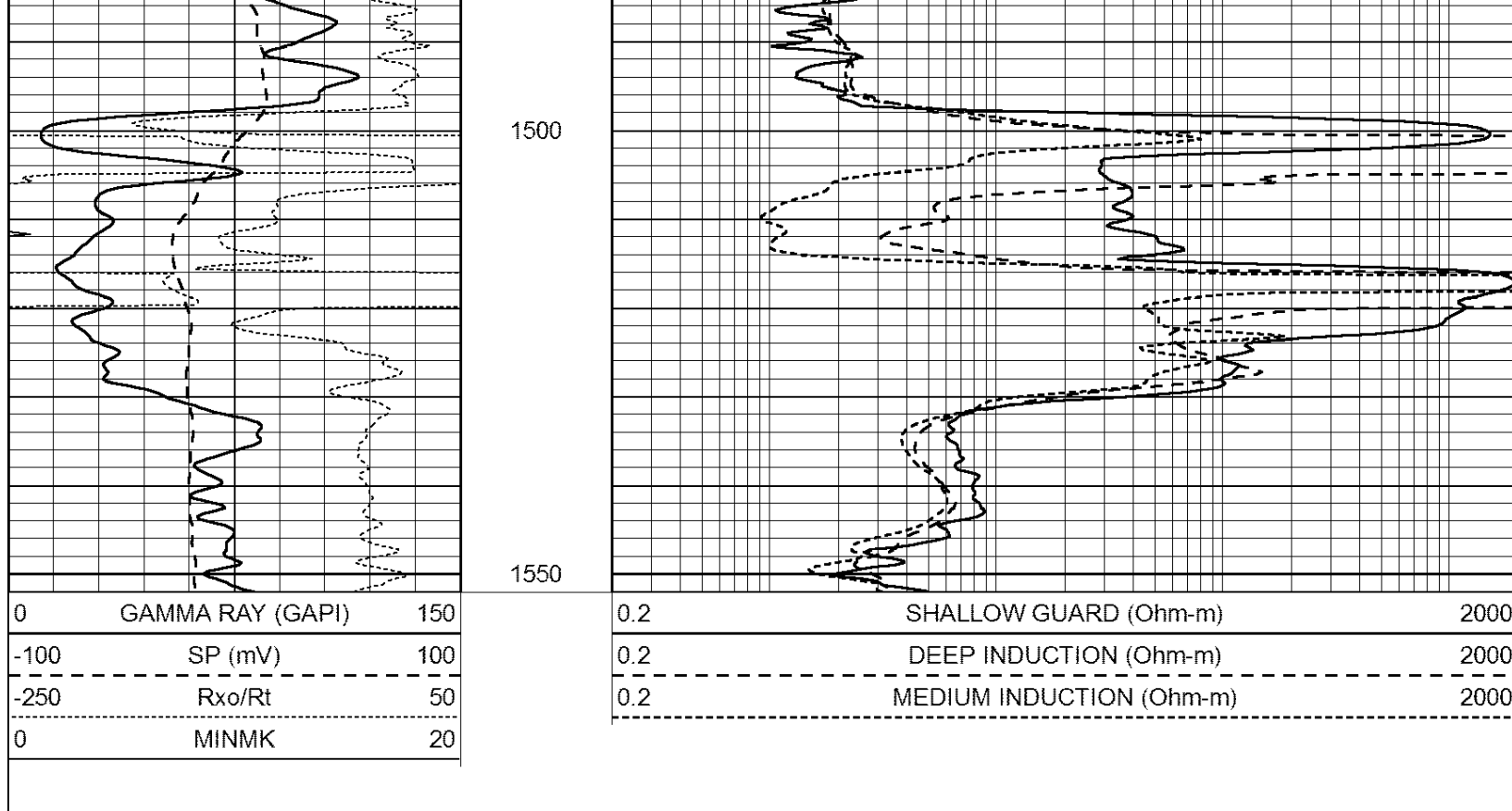
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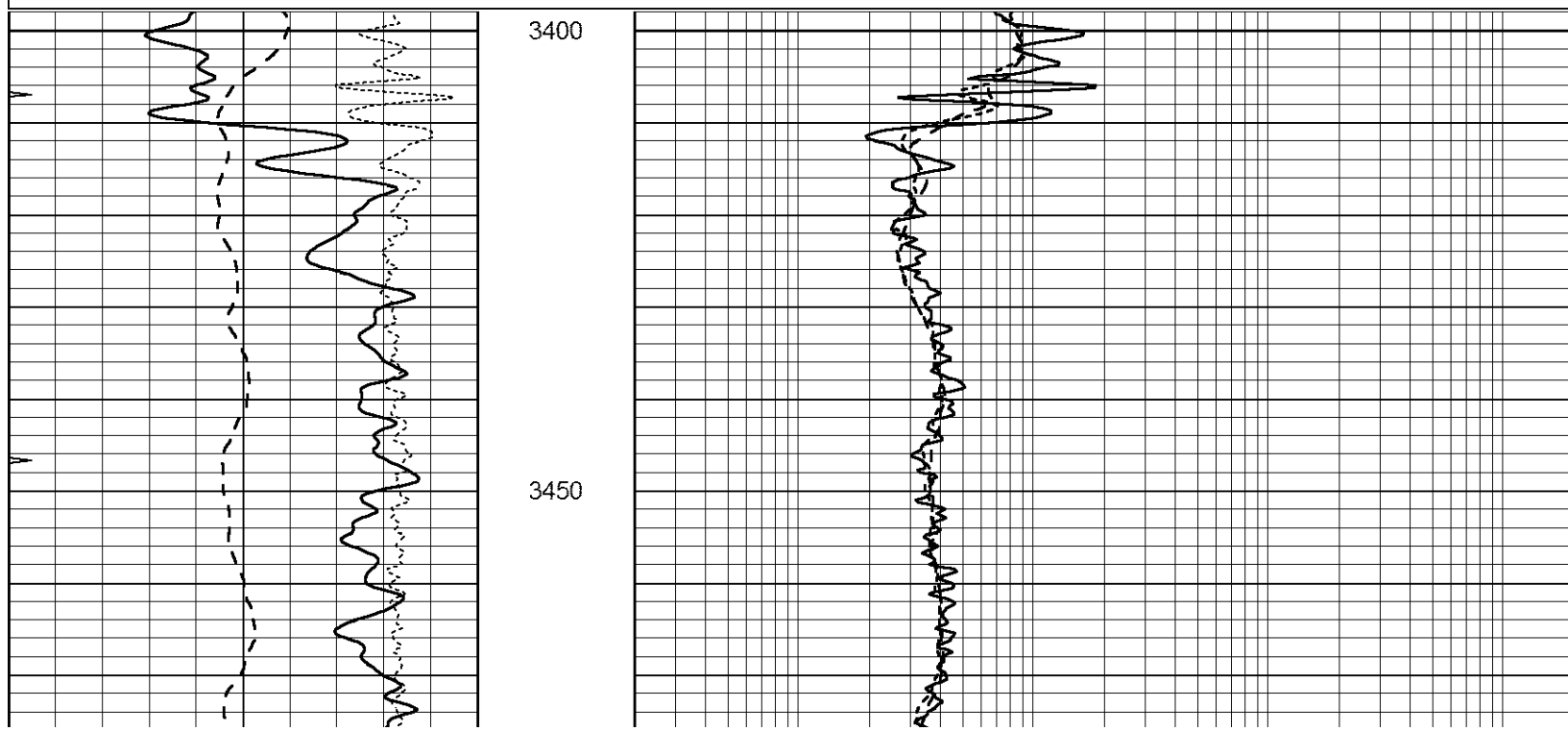
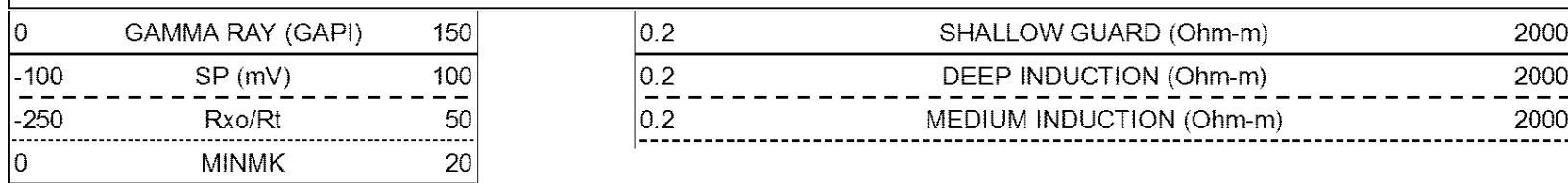


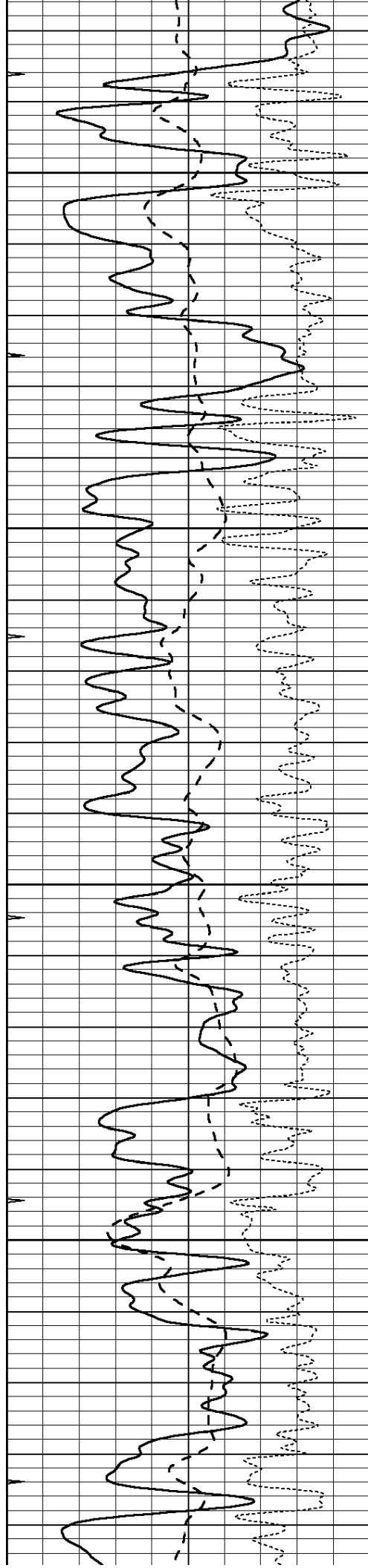
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Dataset Pathname: pass3.4
Presentation Format: _dil
Dataset Creation: Sat Nov 03 06:58:46 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240





Database File: 409781ddn.db
Dataset Pathname: pass3.3
Presentation Format: _dil
Dataset Creation: Sat Nov 03 06:09:32 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240



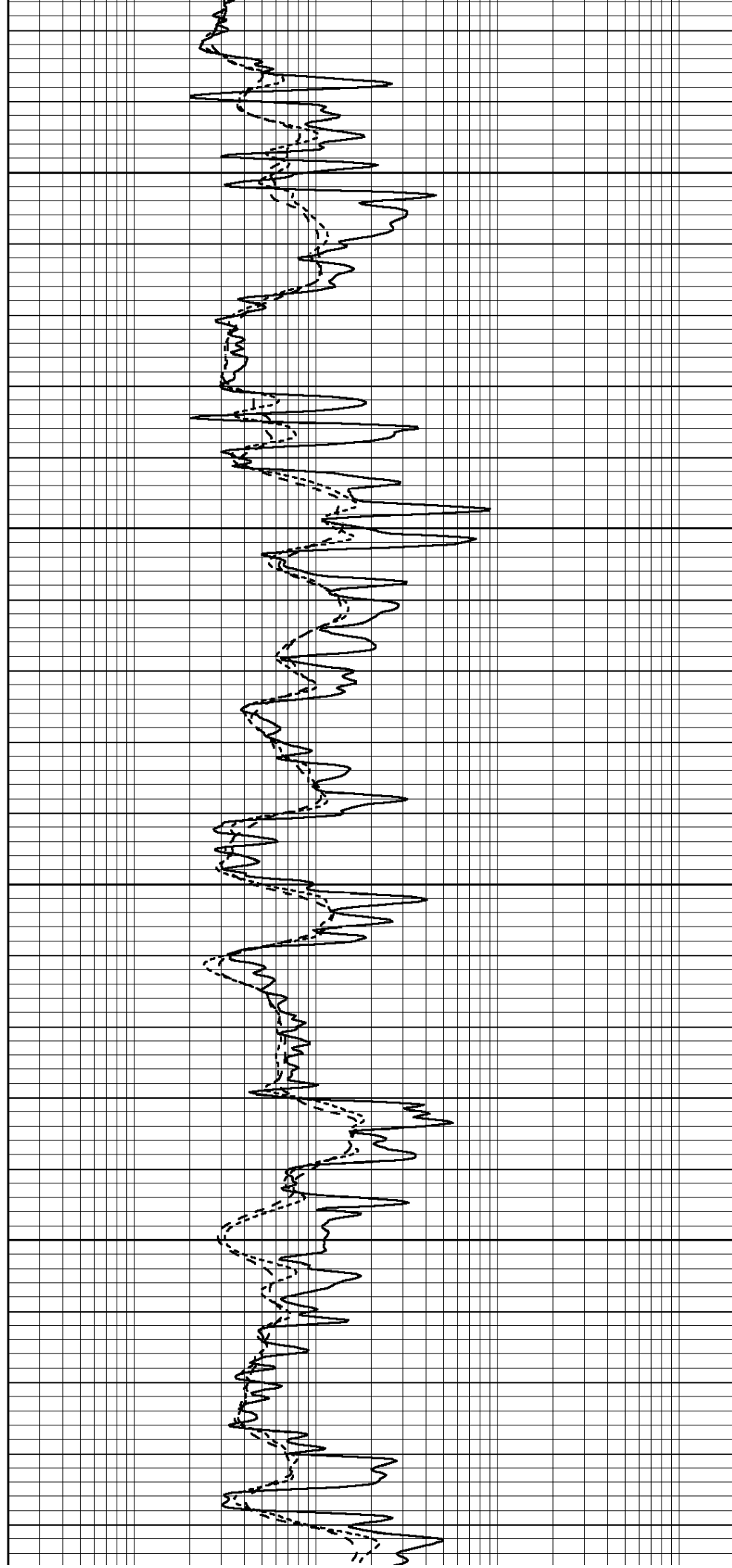


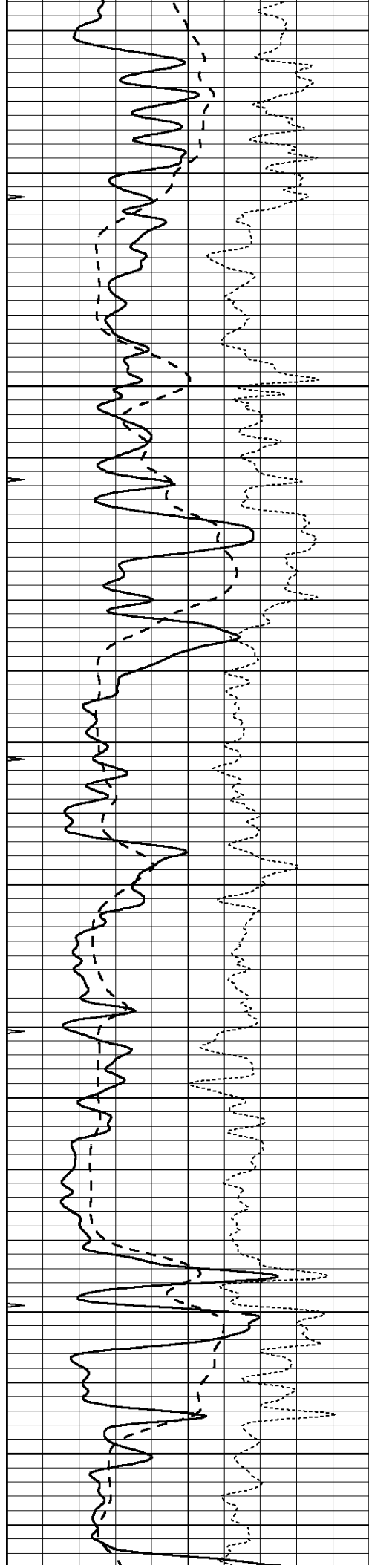
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3650





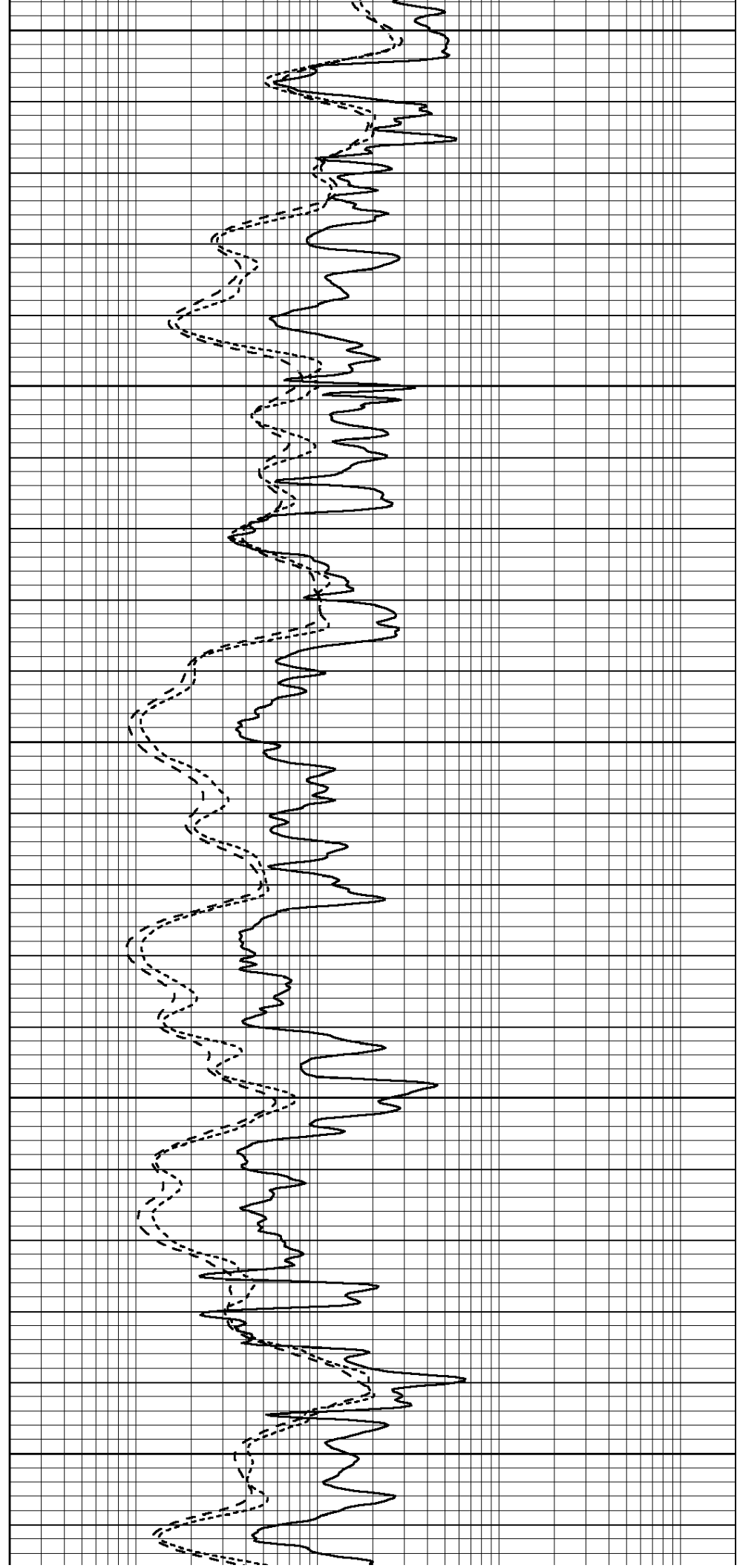
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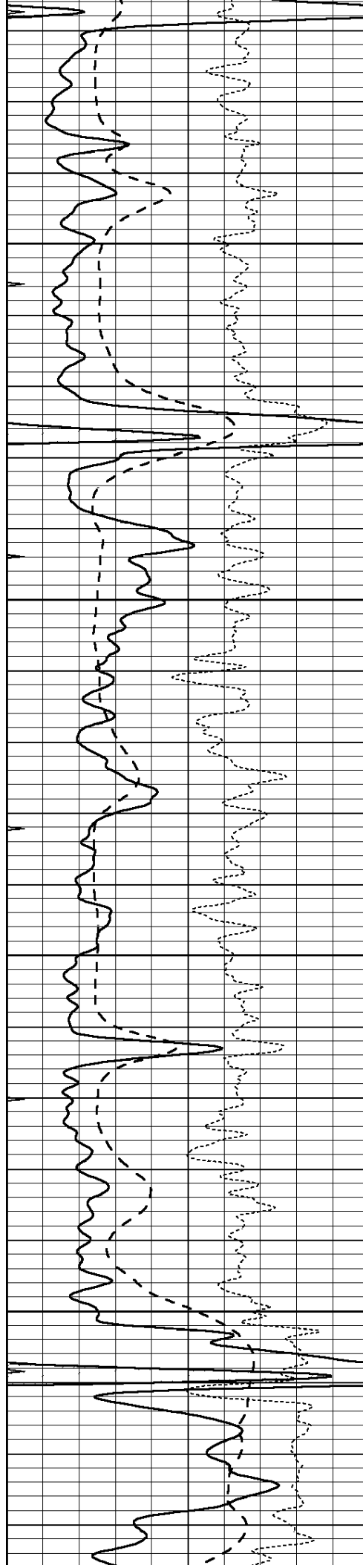
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3900



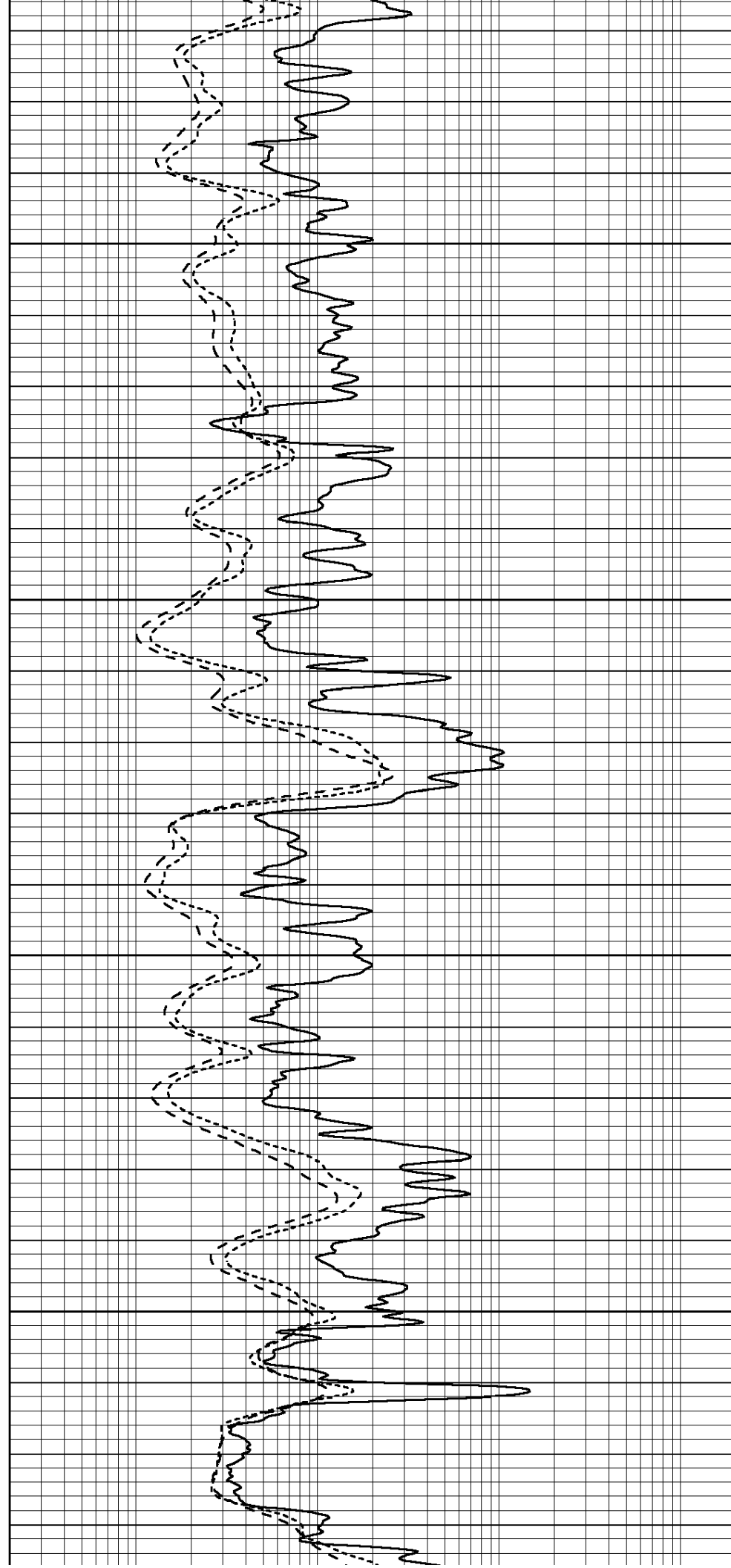


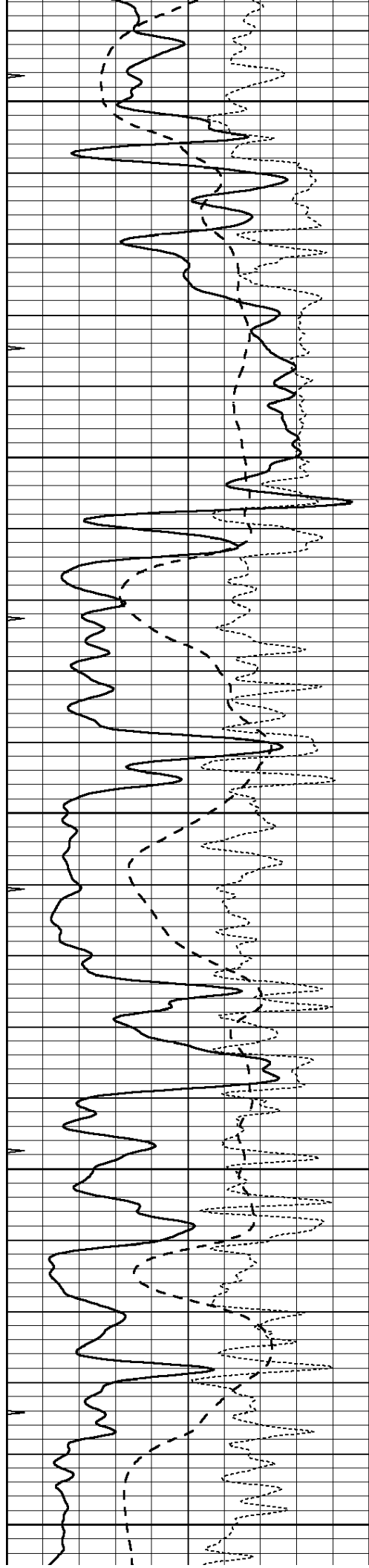
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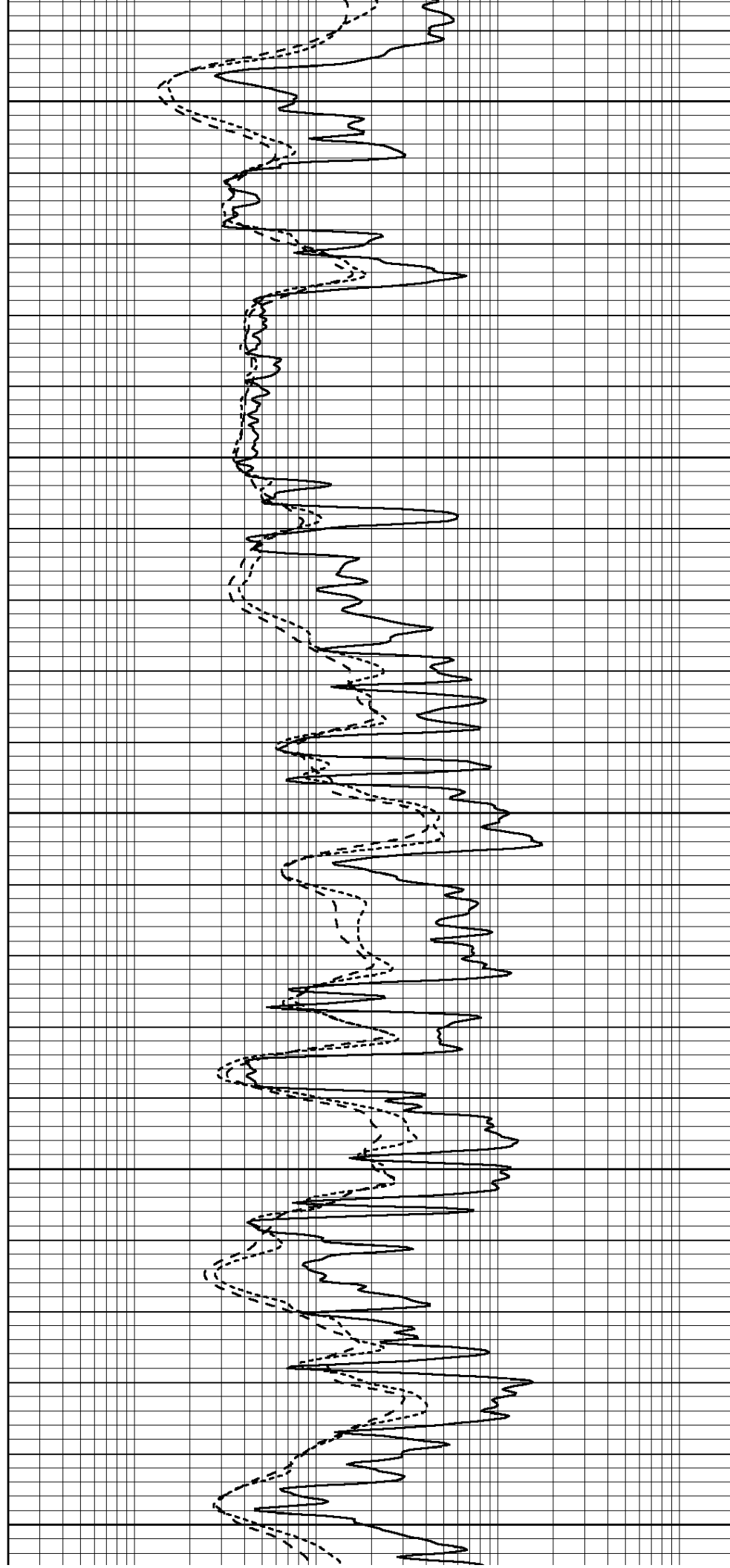
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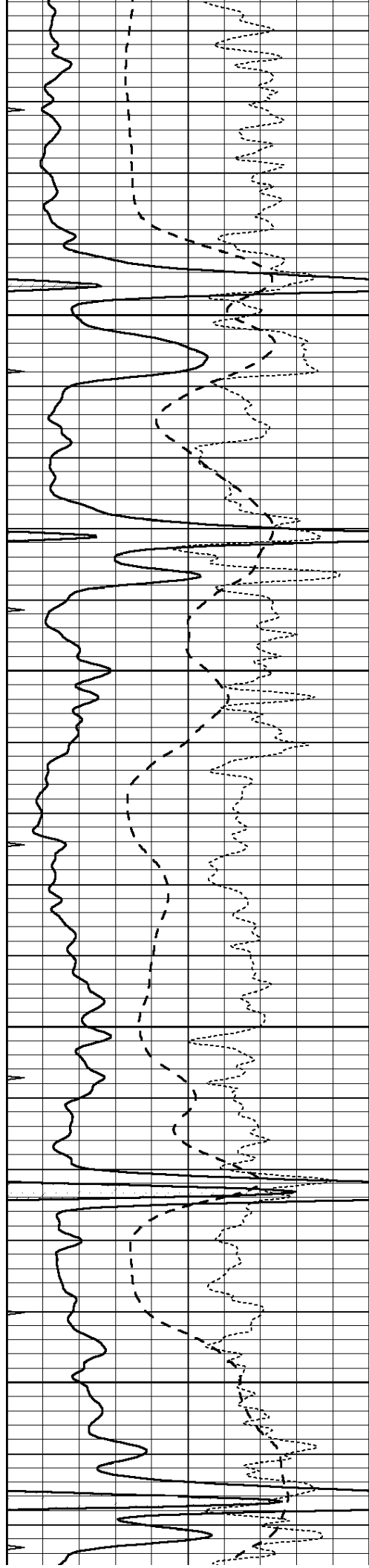
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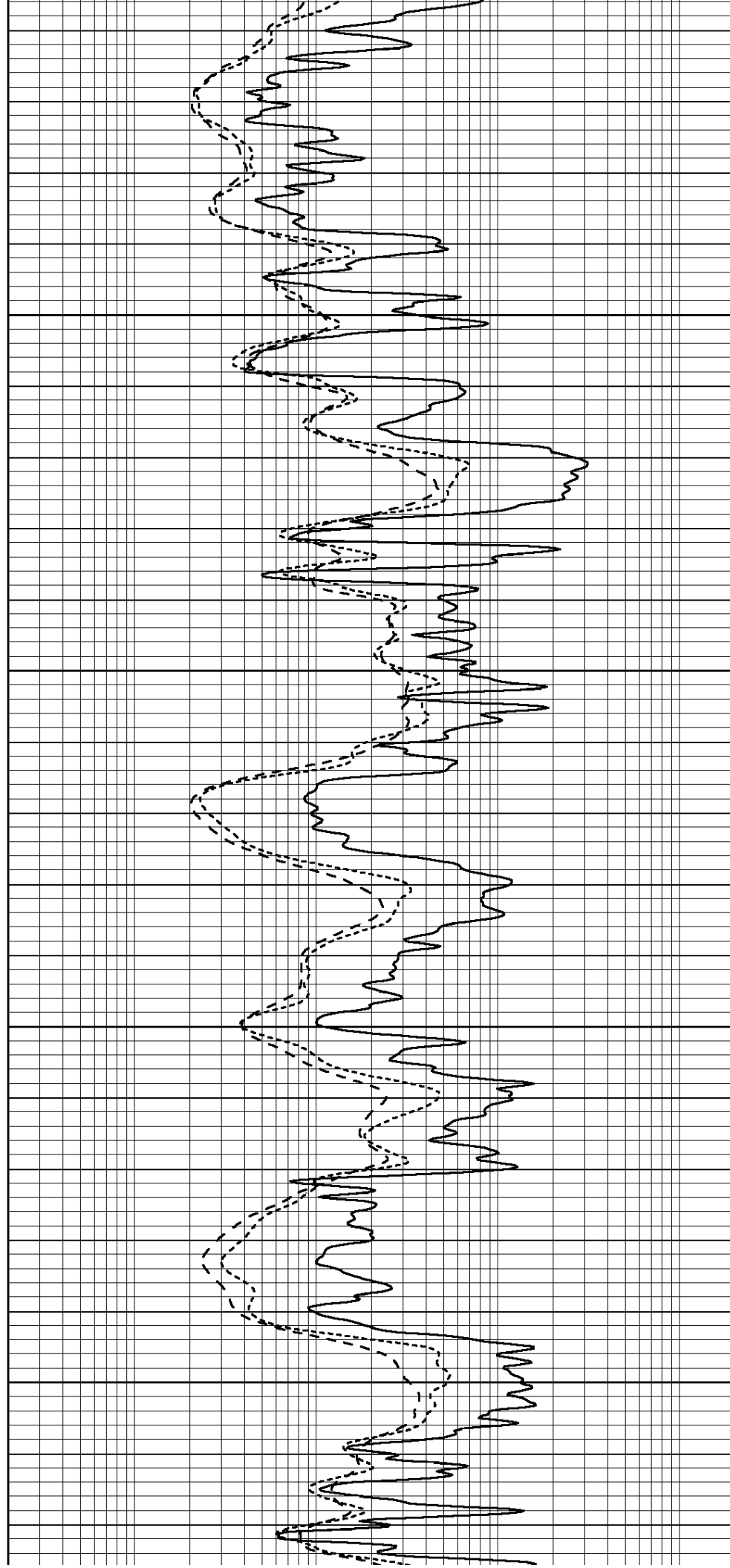


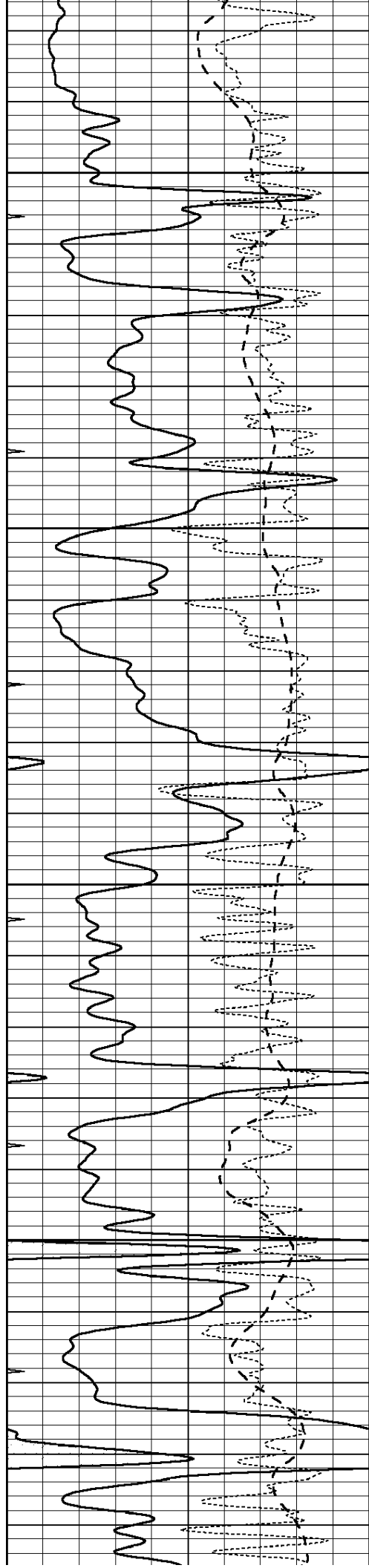
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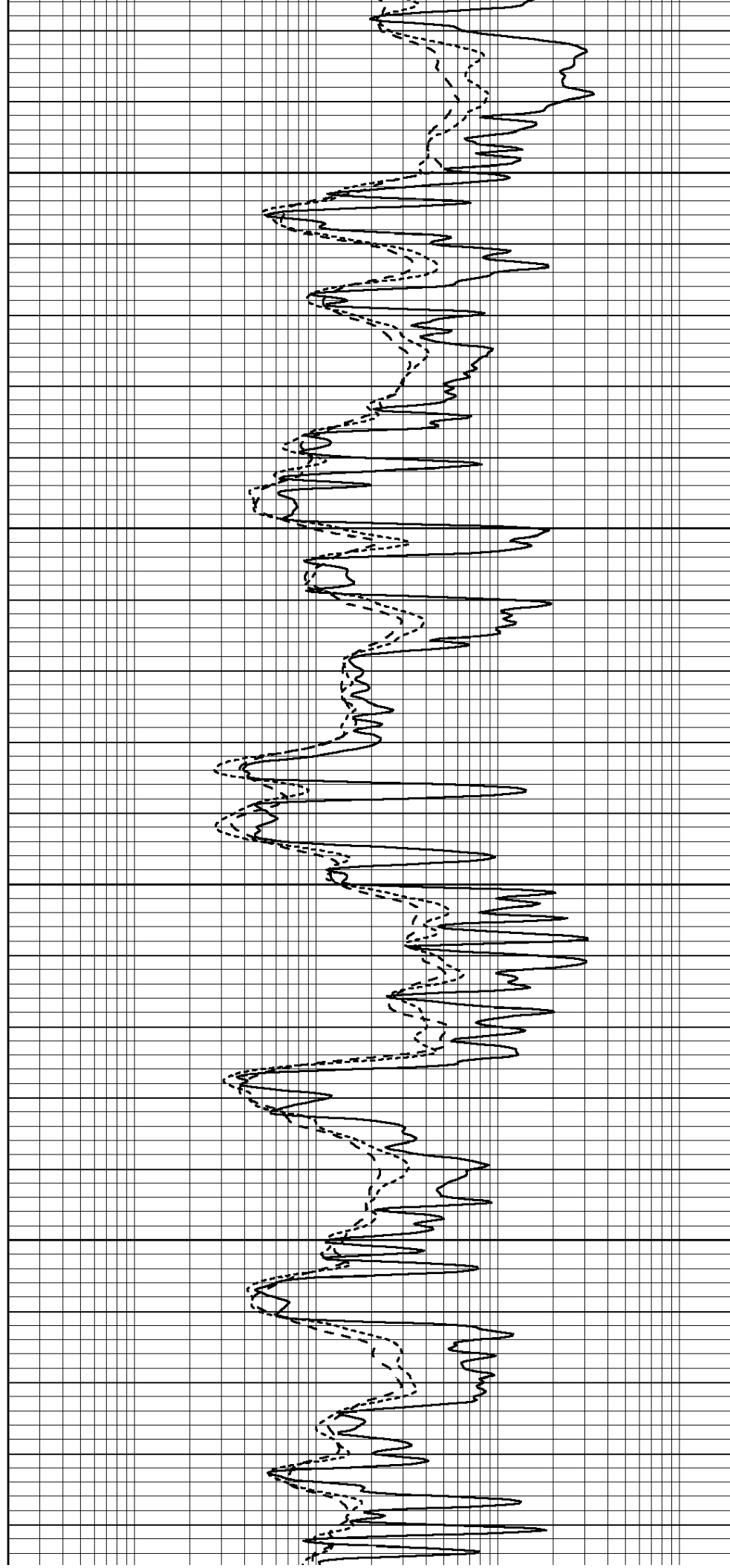


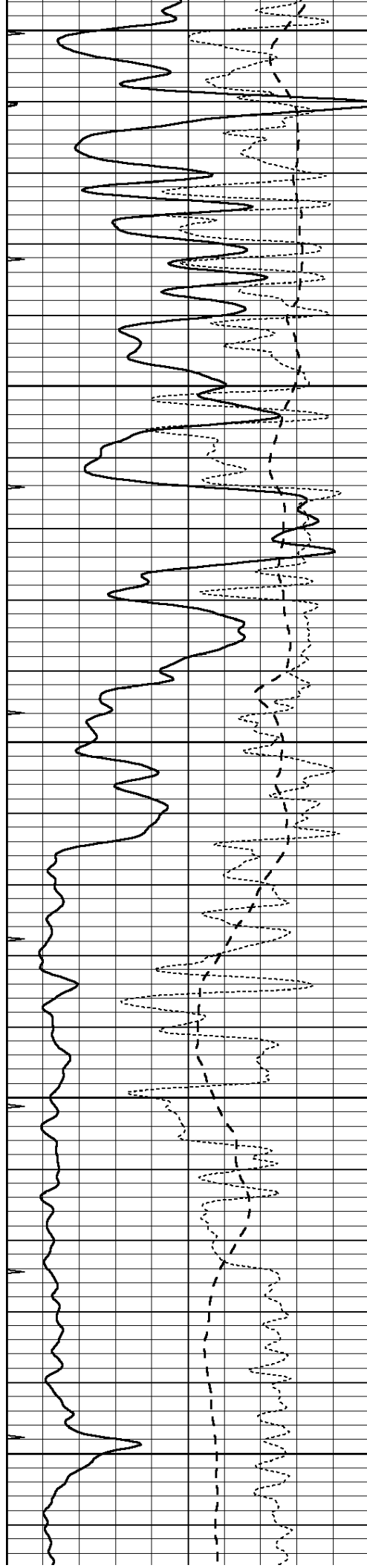
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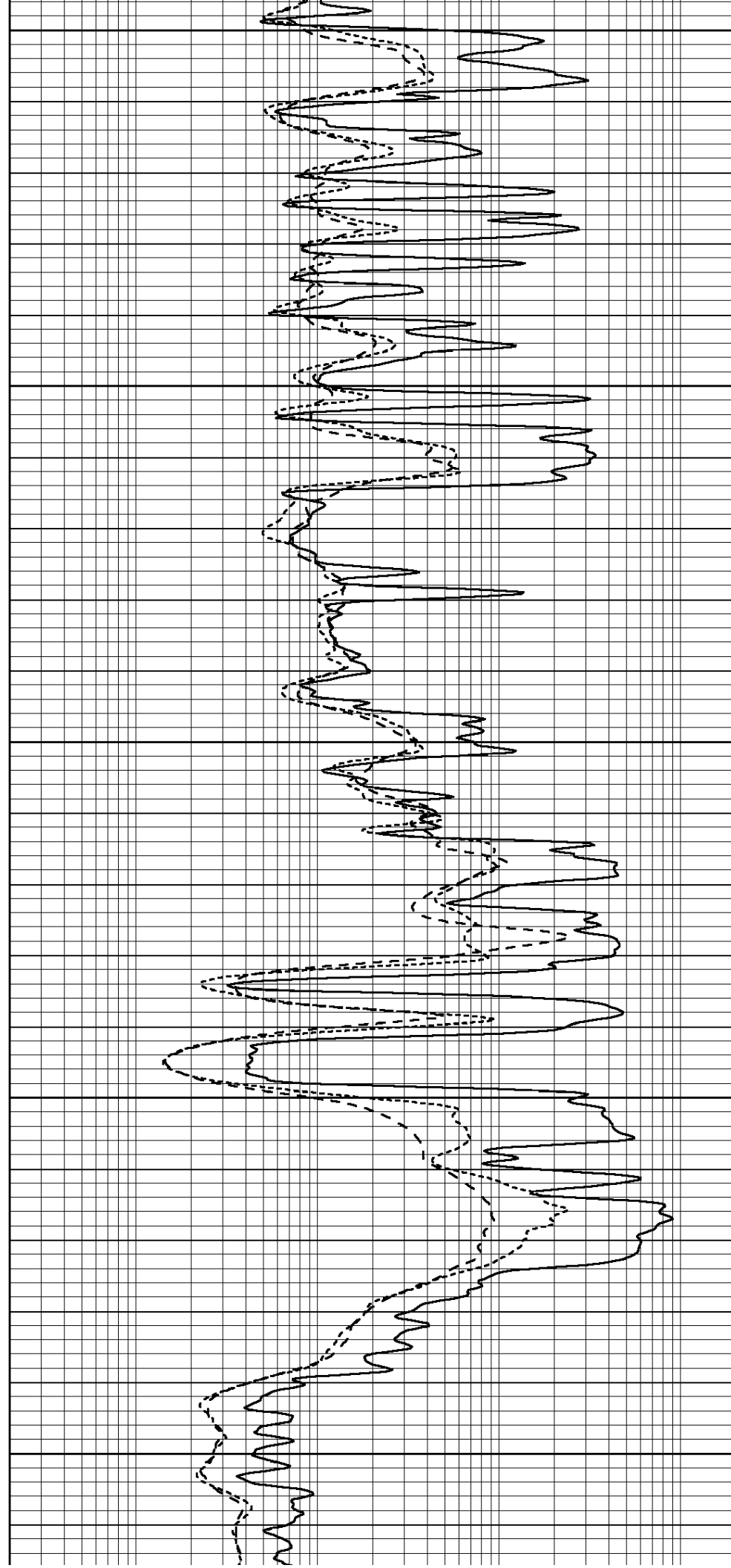
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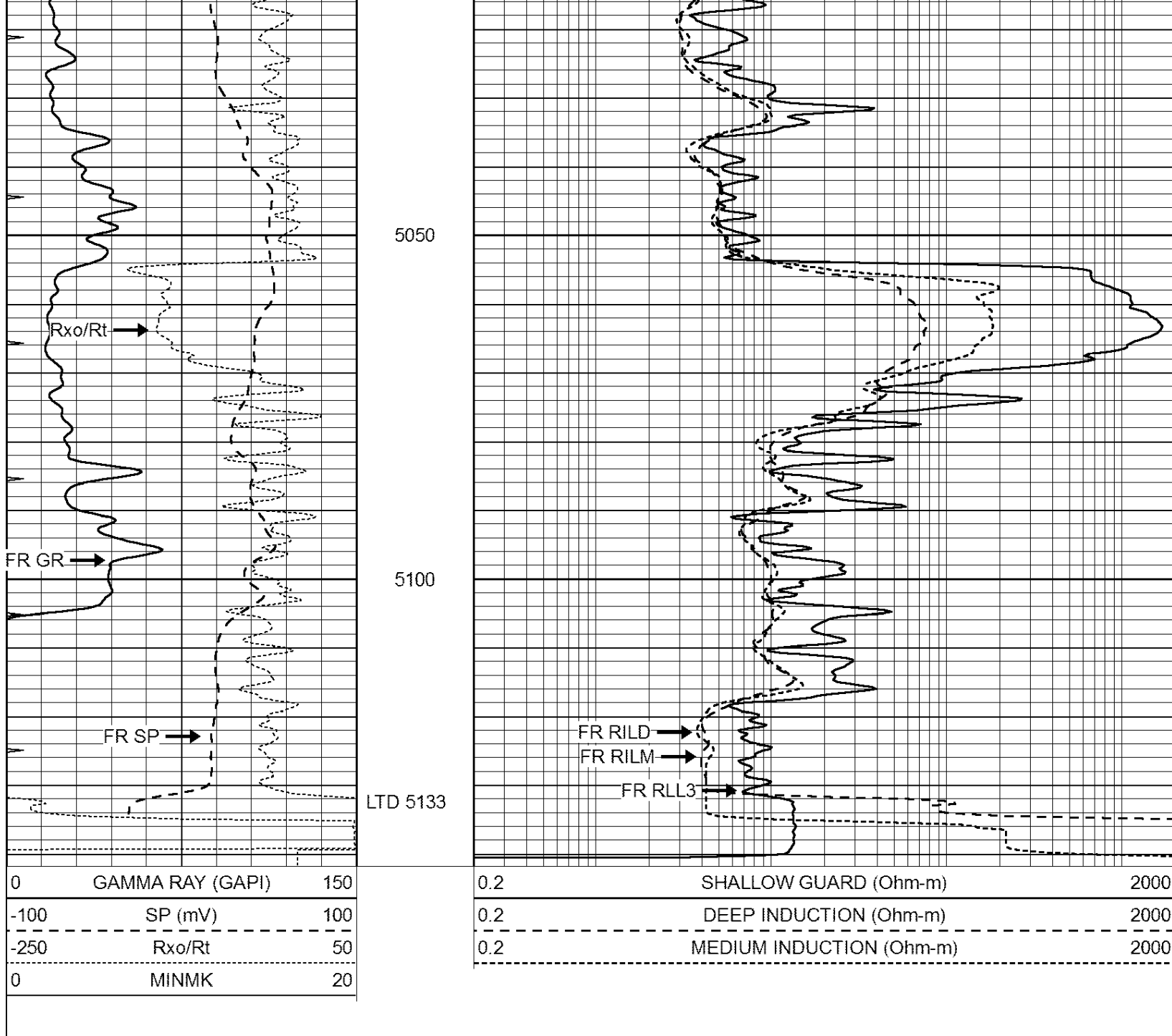
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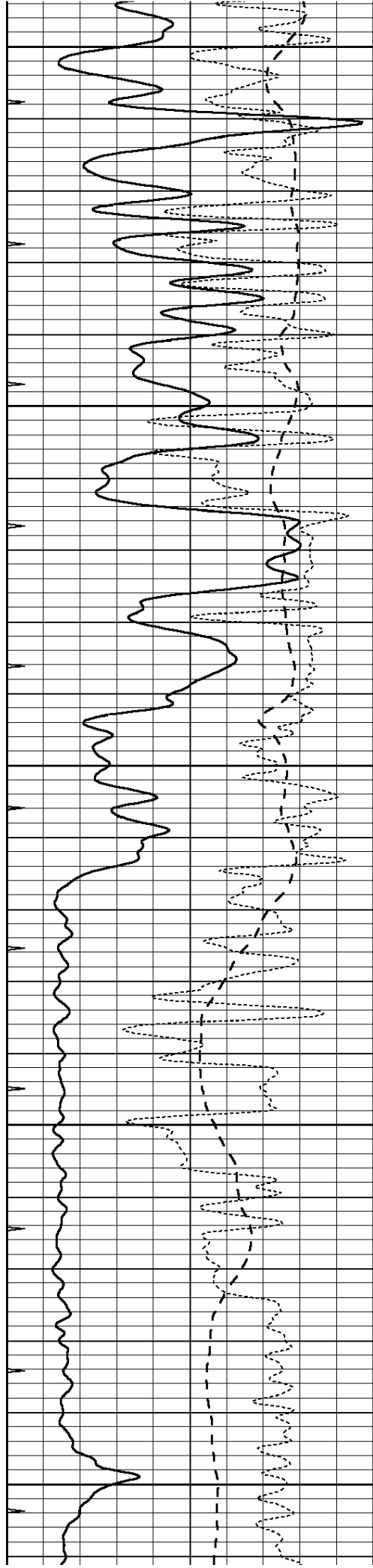


**COMPLETION
& PRODUCTION
SERVICES CO.**

REPEAT SECTION

Database File: 409781ddn.db
 Dataset Pathname: pass2.1.1
 Presentation Format: _dil
 Dataset Creation: Sat Nov 03 05:18:18 2012 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
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



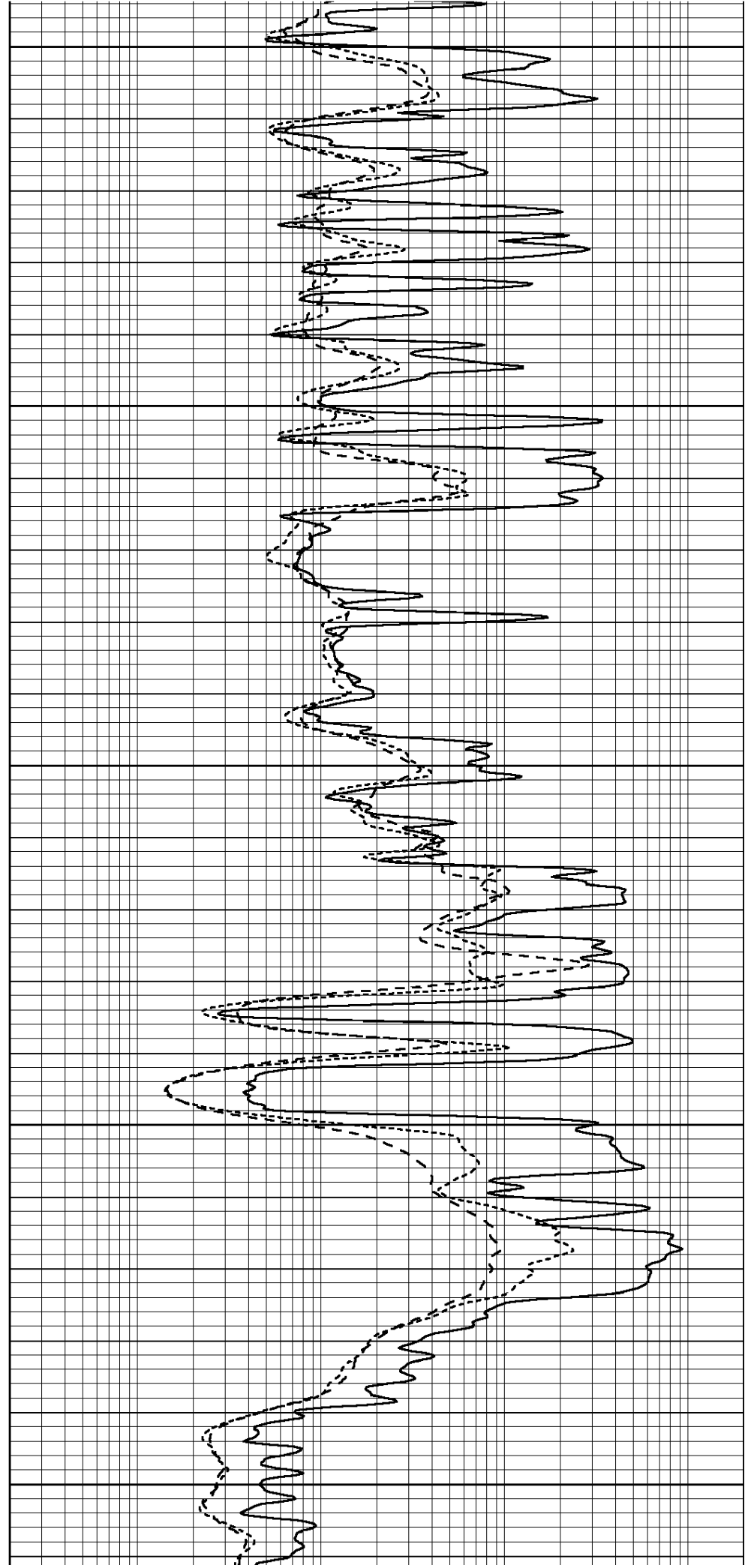
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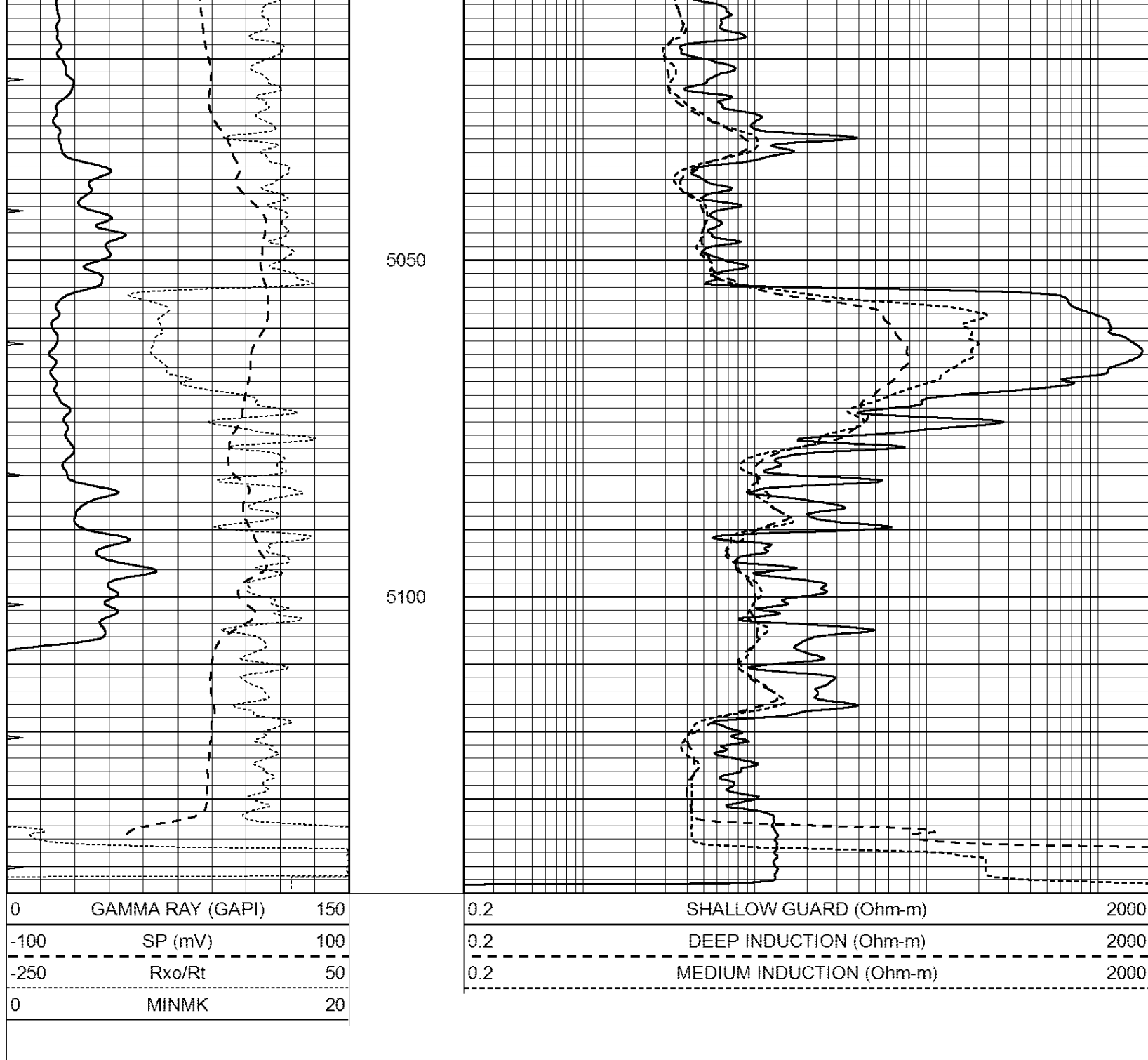
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4900

4950

5000





Calibration Report								
Database File:		409781ddn.db						
Dataset Pathname:		pass3.4						
Dataset Creation:		Sat Nov 03 06:58:46 2012 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model:		DIL5-GEAR						
Performed:		Tue Oct 30 10:36:47 2012						
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-13.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	500.000	-8.000
Interact	Zero	Cal		Zero	Cal		m	b

Internal:	Zero	Cal		Zero	Cal		m	d
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report
--

Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Tue Oct 30 08:31:02 2012

Master Calibration					
	Density		Far Detector		Near Detector
Magnesium	1.710	g/cc	1205.67	613.10	cps
Aluminum	2.590	g/cc	277.64	430.46	cps
Spine Angle = 76.46			Density/Spine Ratio = 0.583		
	Size		Reading		
Small Ring	9.40	in	4.69	V	
Large Ring	14.00	in	6.52	V	

Compensated Neutron Calibration Report
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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:	Tue Oct 30 11:39:23 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7200	GAPI/cps