



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	RITCHIE EXPLORATION, INC.		
Well	VAN EATON 10B #1		
Field	WILDCAT		
County	GOVE	State	KANSAS
Location:	API # : 15-063-21949-0000		Other Services
	660' FNL & 1690' FWL W/2 - NE - NW		CDL/CNL
	SEC 10 TWP 12S RGE 31W		Elevation
Permanent Datum	GROUND LEVEL	Elevation	2954
Log Measured From	KELLY BUSHING 10' A.G.L.	D.F.	2962
Drilling Measured From	KELLY BUSHING	G.L.	2954
Date	11-10-11		
Run Number	ONE		
Depth Driller	4740		
Depth Logger	4742		
Bottom Logged Interval	4740		
Top Log Interval	0		
Casing Driller	221		
Casing Logger	220		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES: 3000 ppm	
Density / Viscosity	9.3 / 67		
pH / Fluid Loss	10.0 / 9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.20 @ 63F		
Rmf @ Meas. Temp	0.90 @ 63F		
Rmc @ Meas. Temp	1.44 @ 63F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.61 @ 123F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	123F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	MAX LOVELY		

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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.

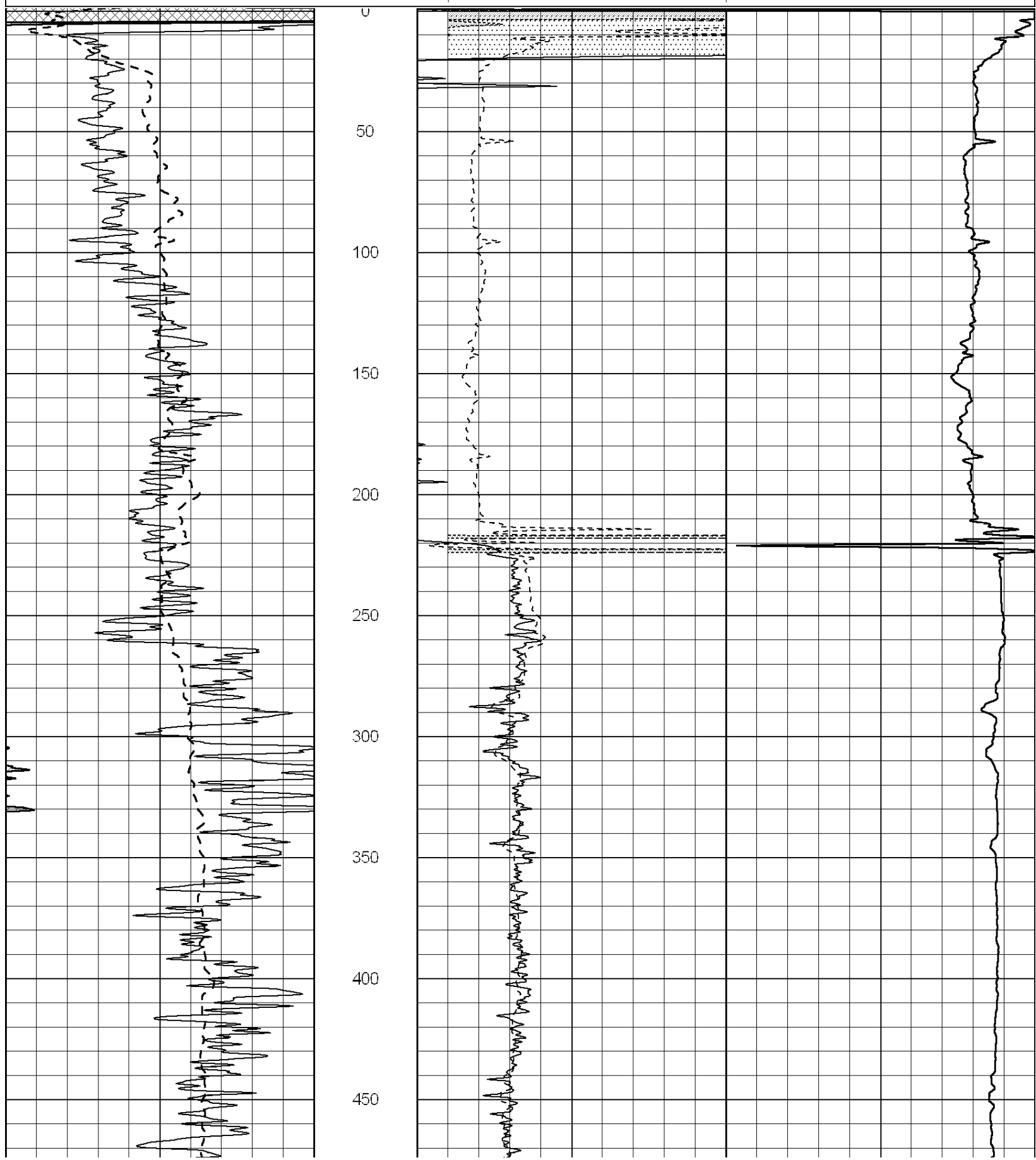
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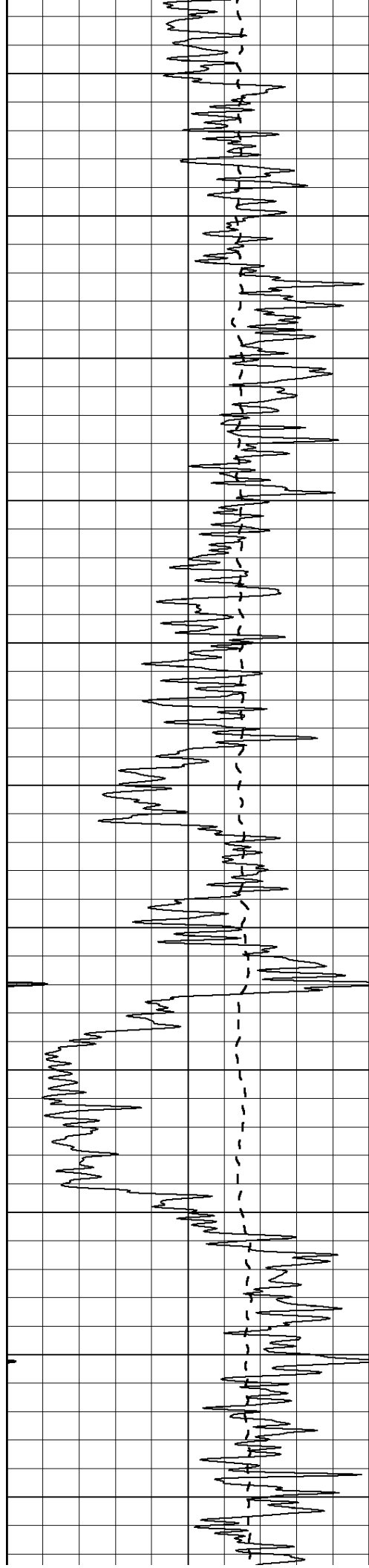
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: I-70 & CAMPUS RD EXIT - 5 1/2 MILES SOUTH TO RD X
1/2 MILE WEST - SOUTH AND WEST INTO

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

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





500

550

600

650

700

750

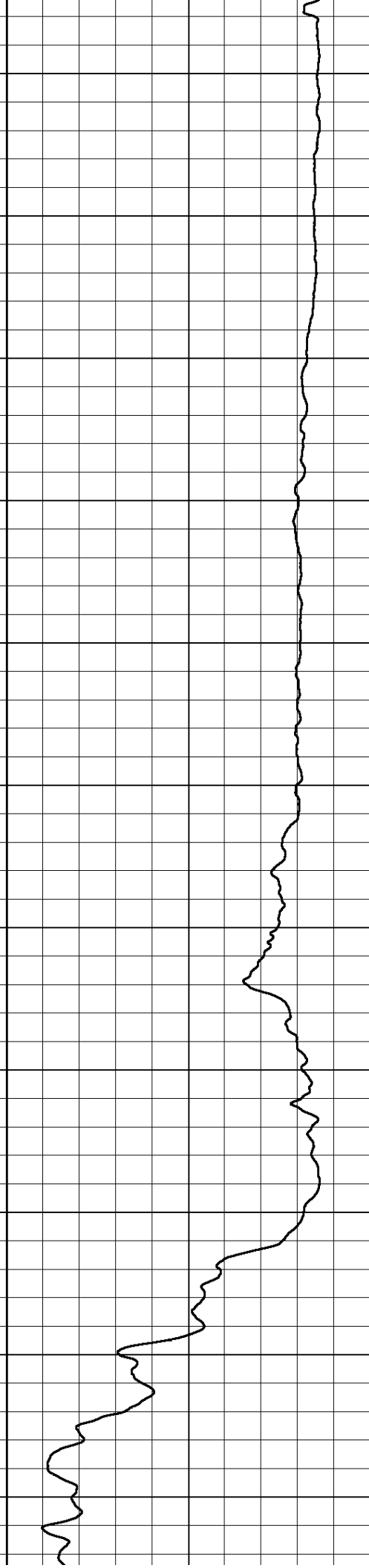
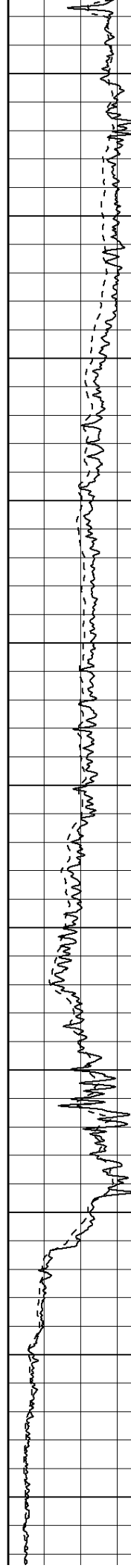
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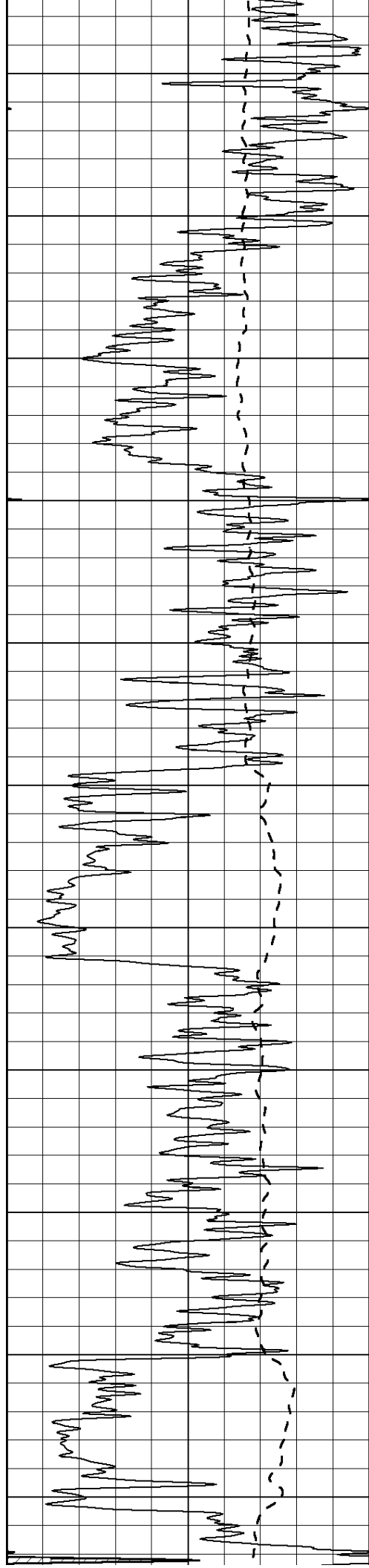
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900

950

1000





1050

1100

1150

1200

1250

1300

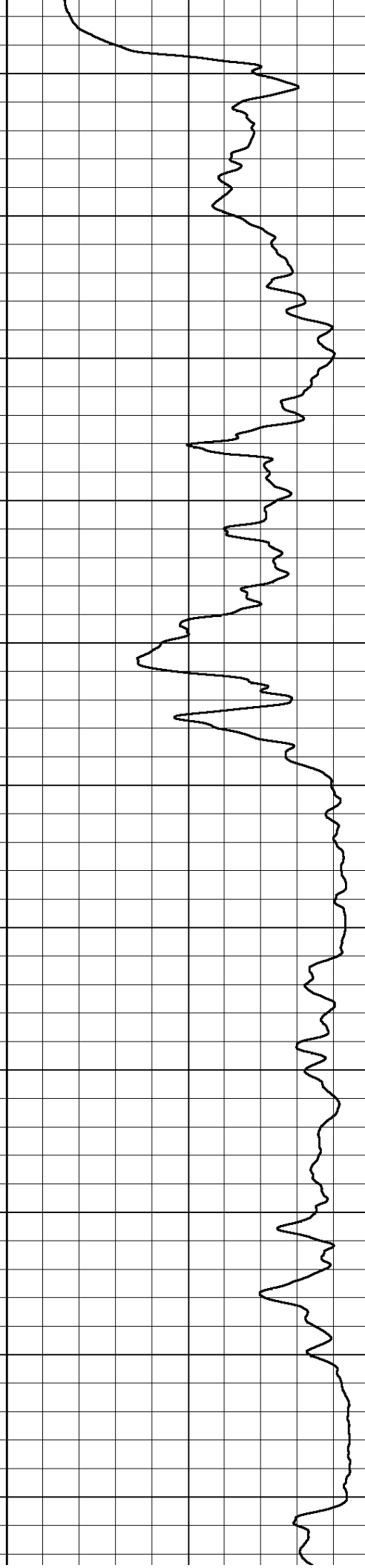
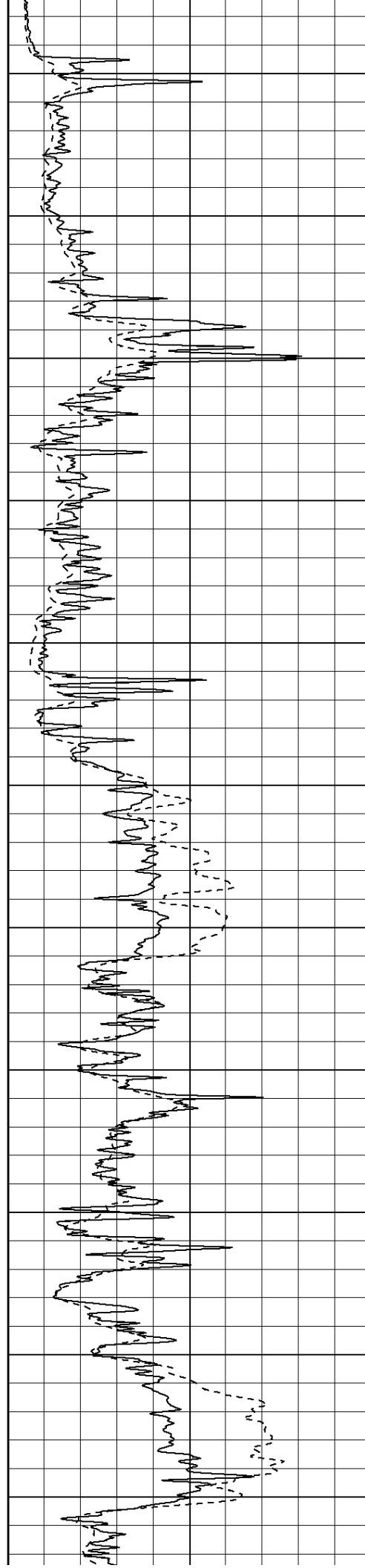
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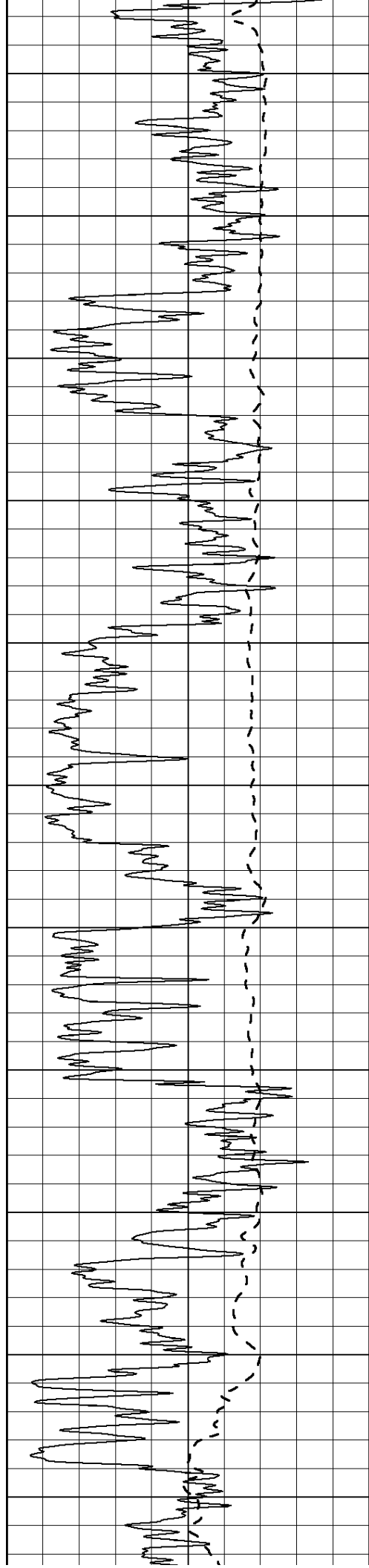
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1450

1500

1550





1600

1650

1700

1750

1800

1850

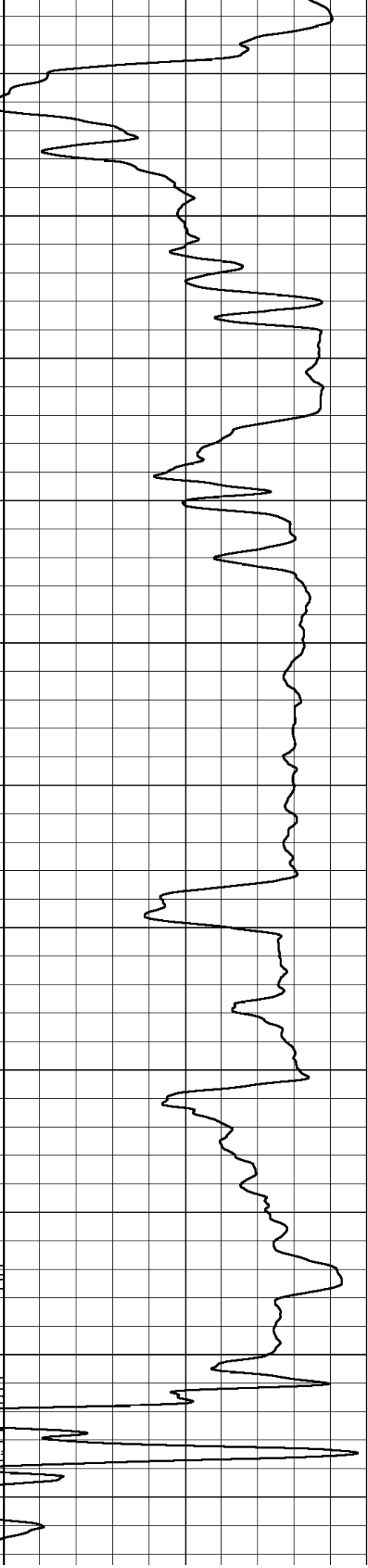
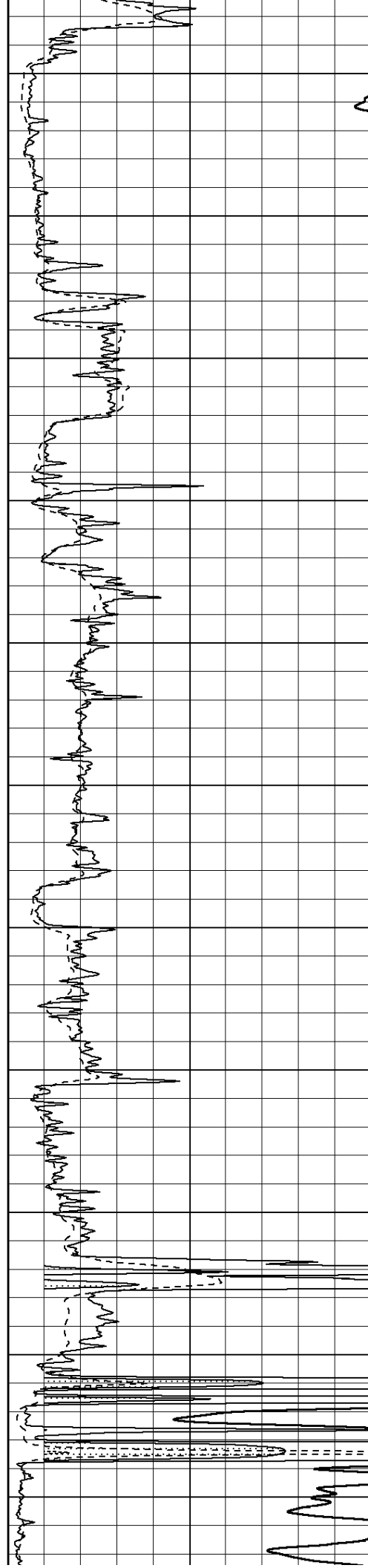
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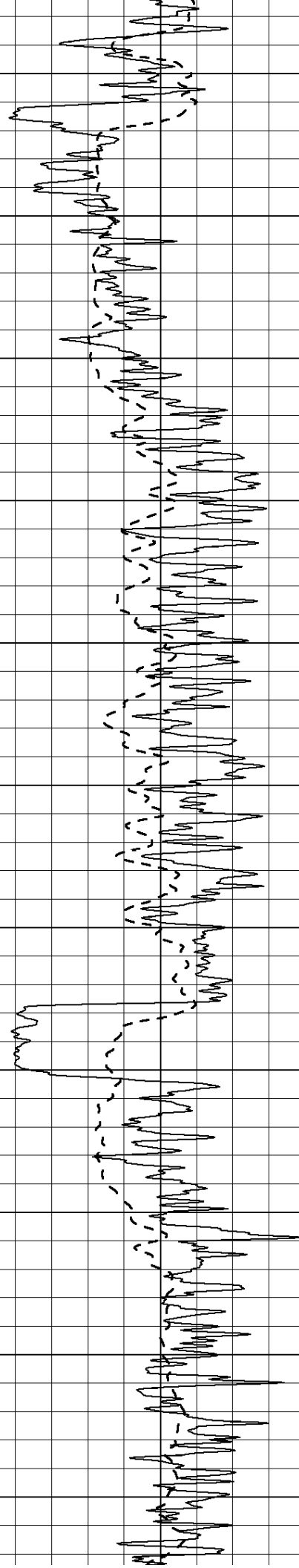
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2000

2050

2100





2150

2200

2250

2300

2350

2400

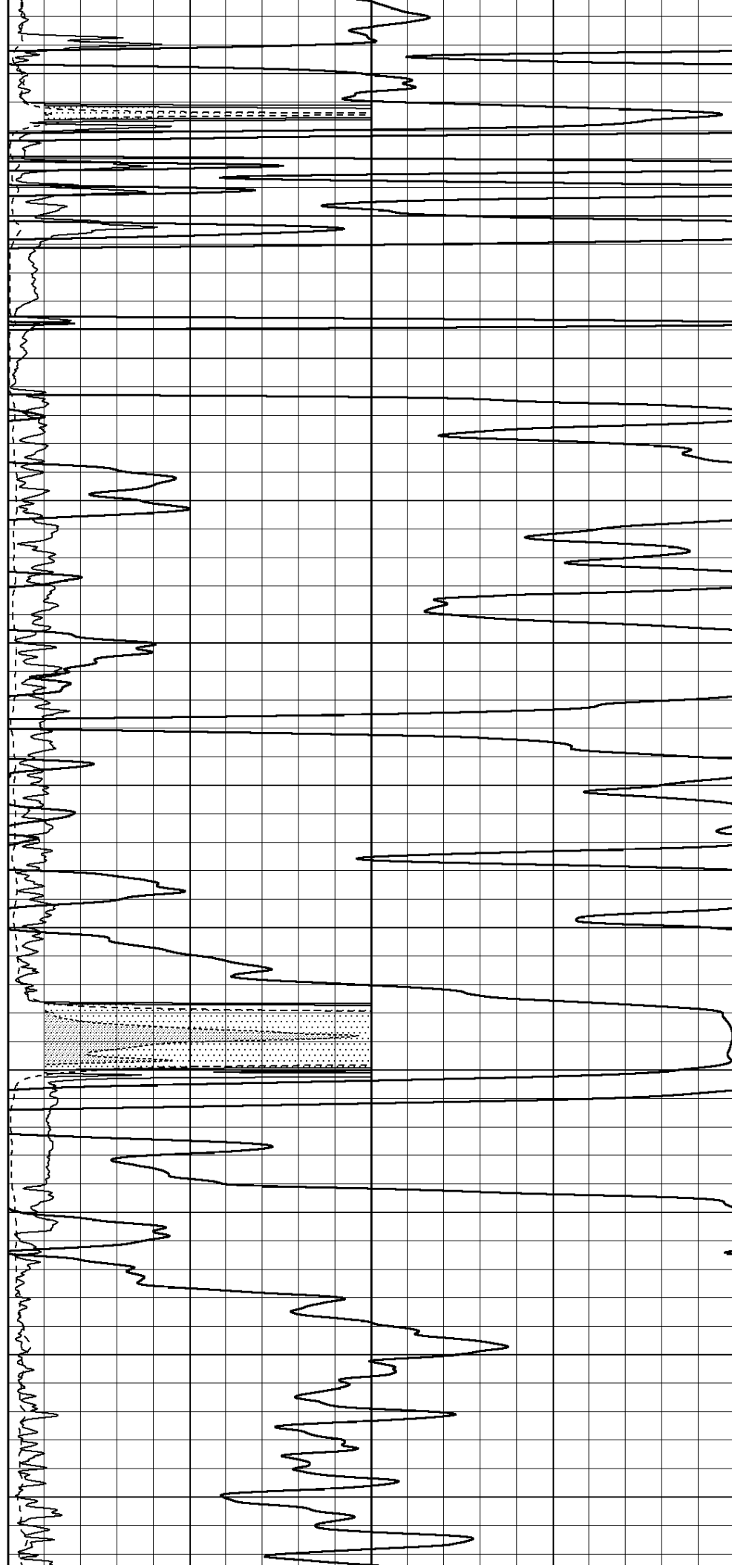
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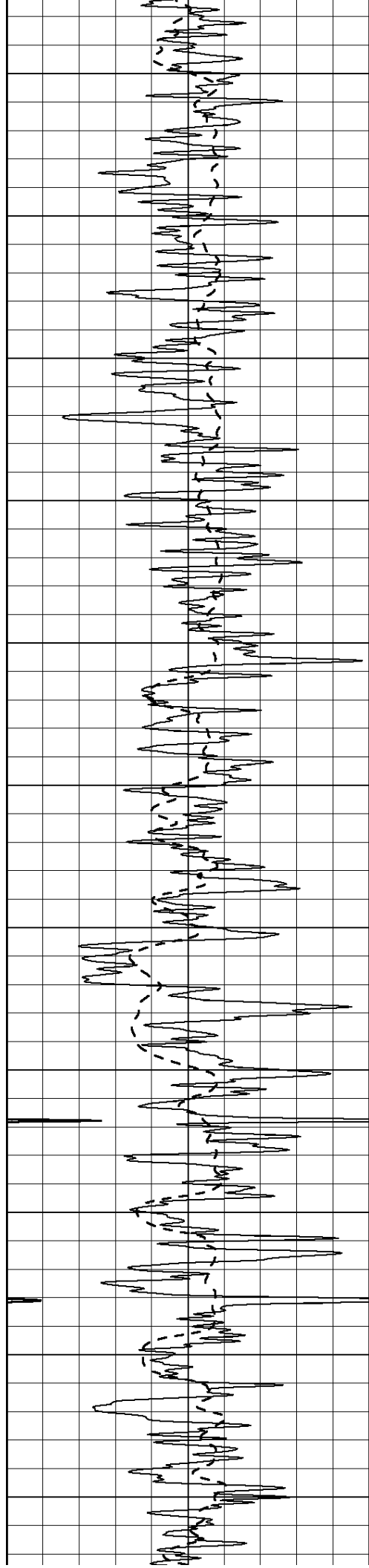
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2550

2600

2650





2700

2750

2800

2850

2900

2950

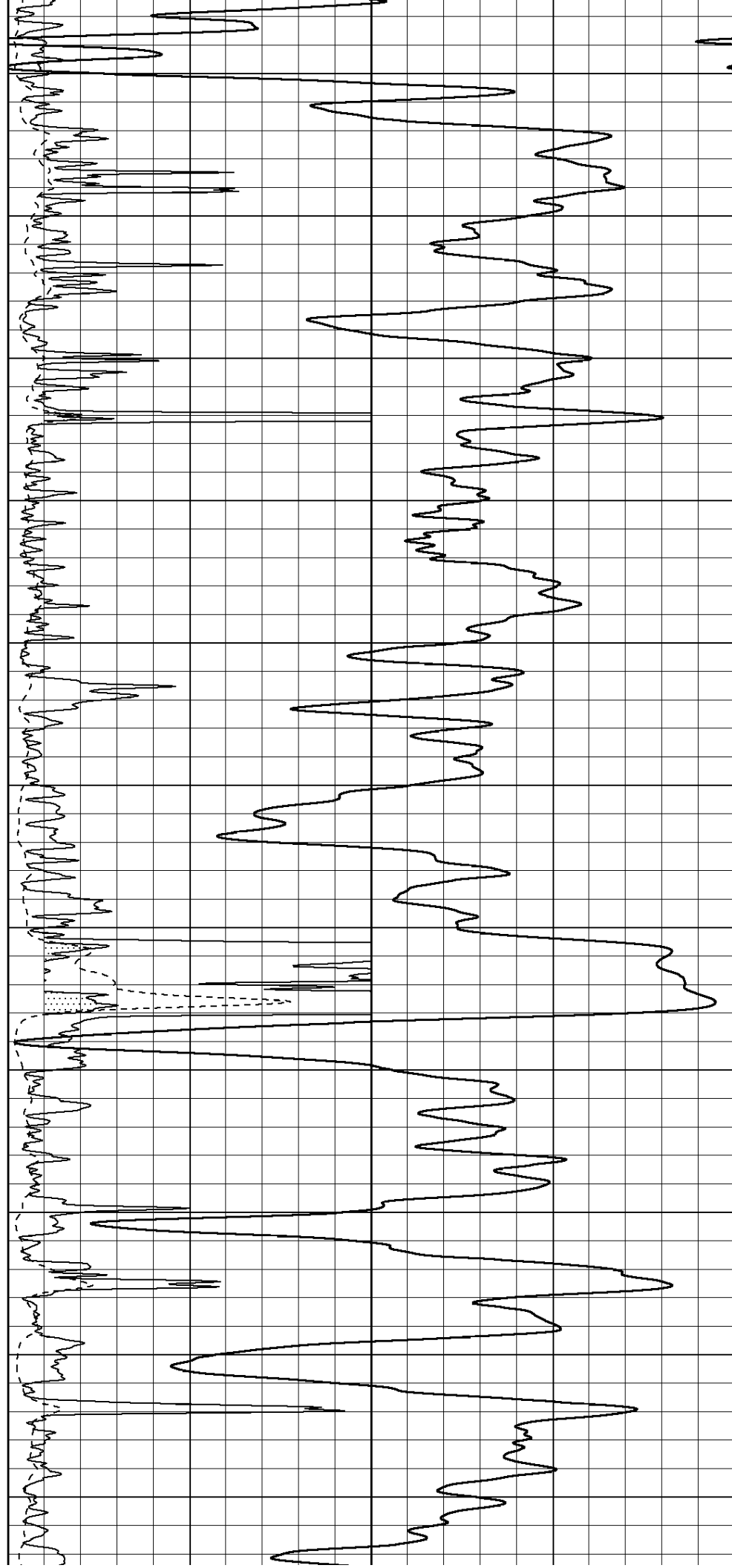
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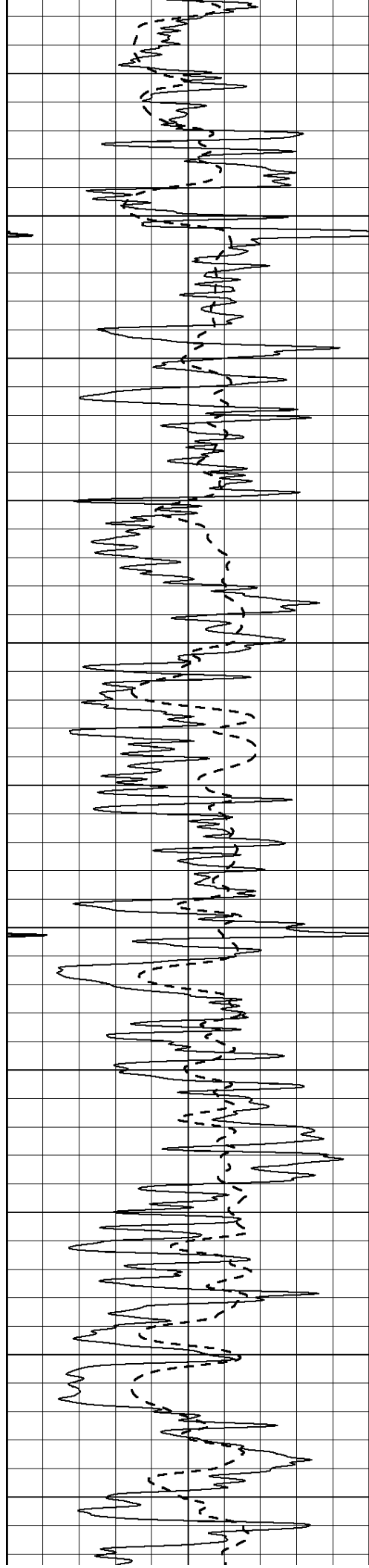
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3150

3200





3250

3300

3350

3400

3450

3500

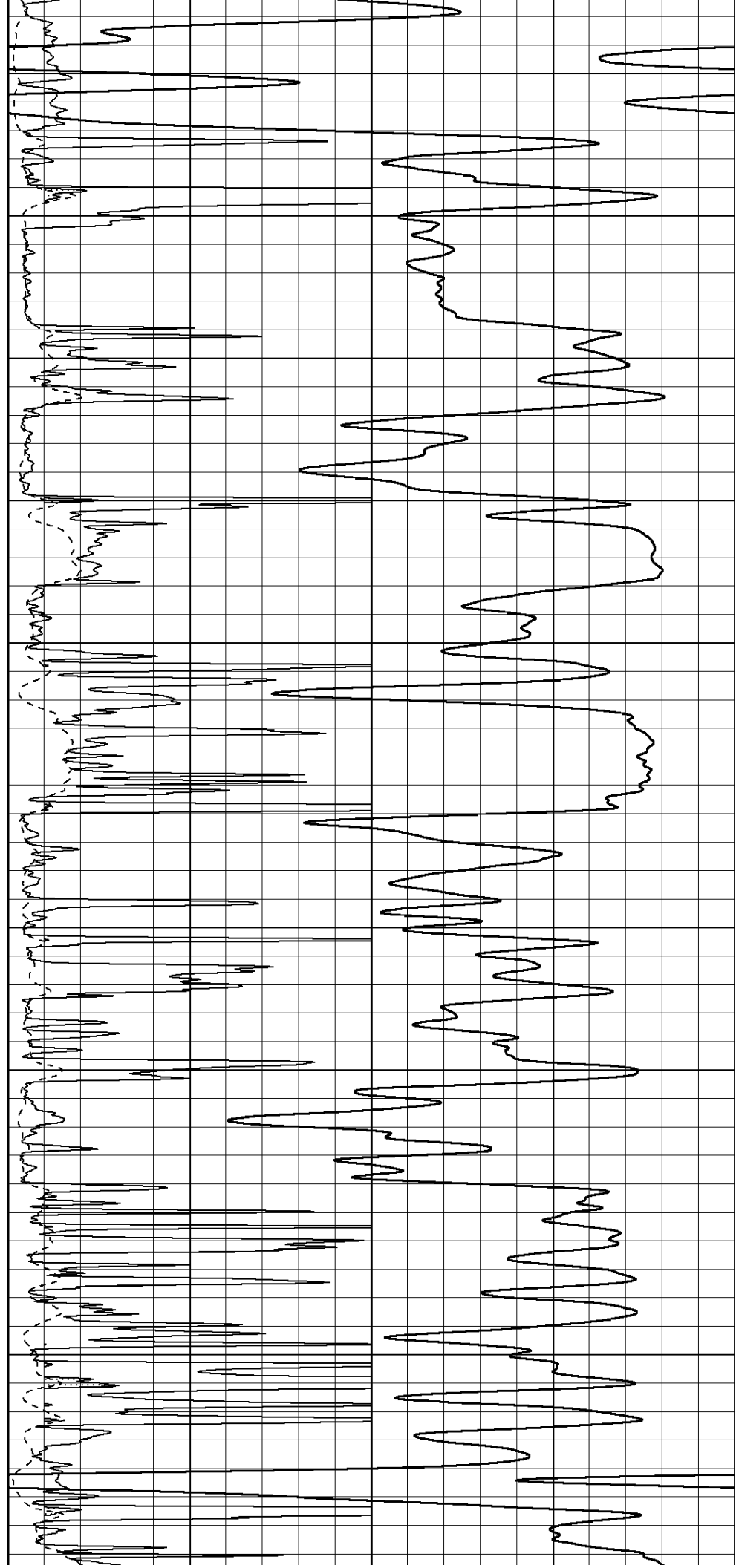
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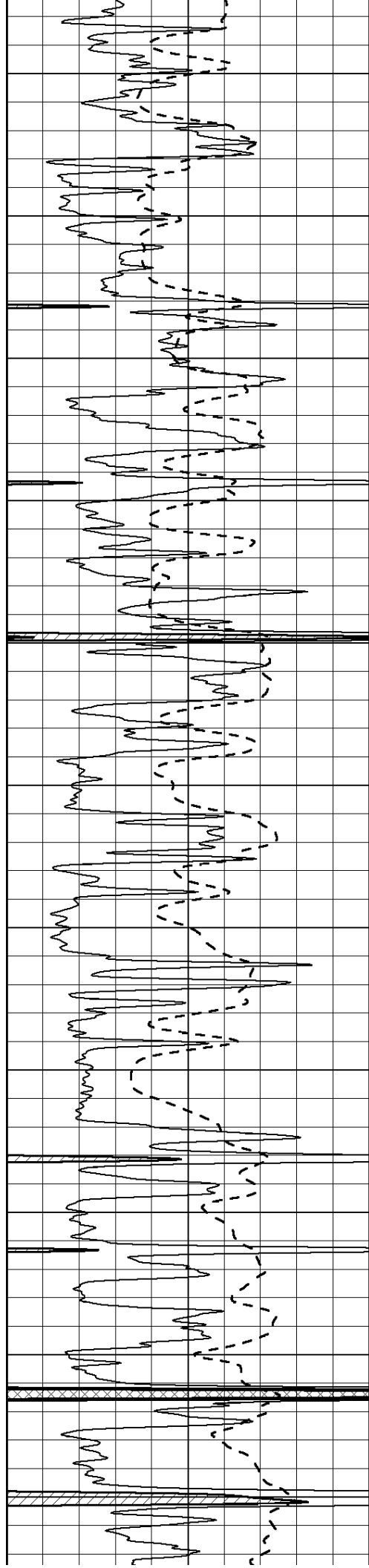
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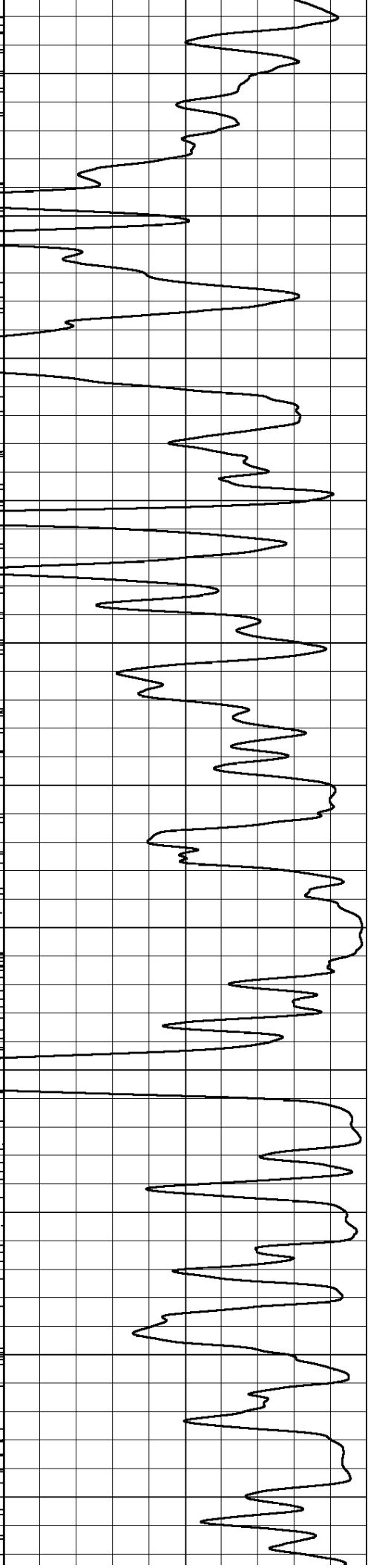
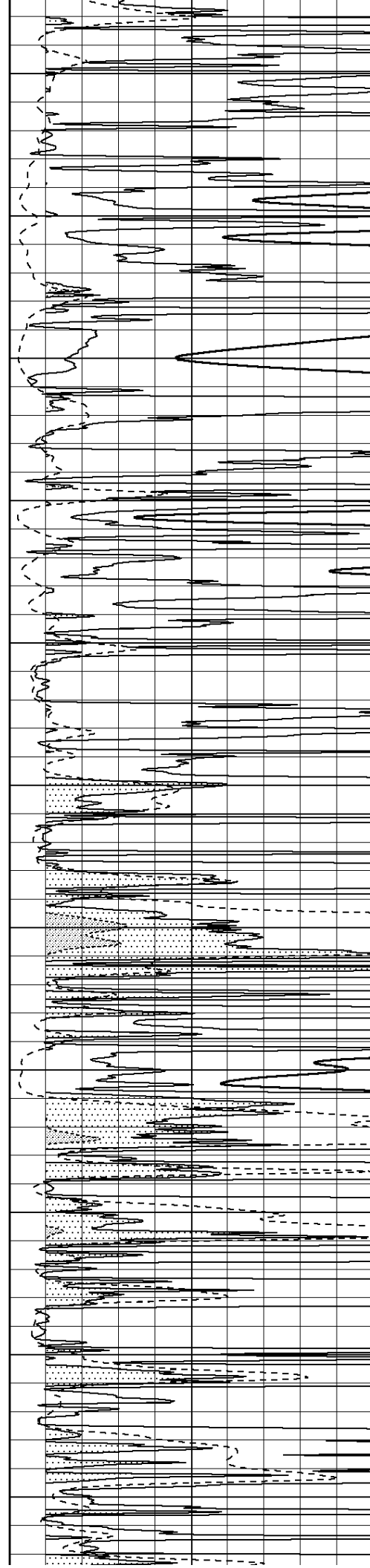
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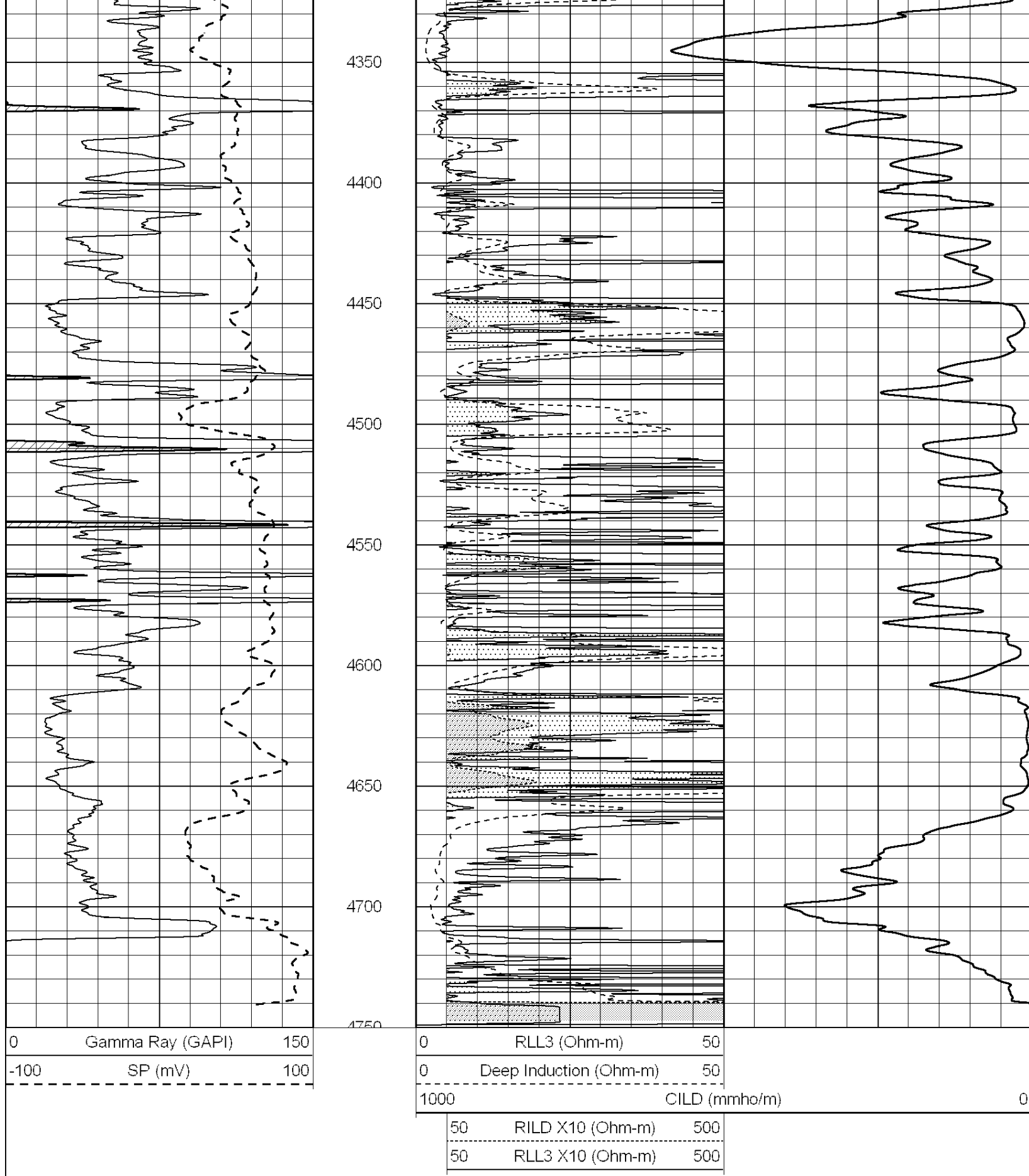
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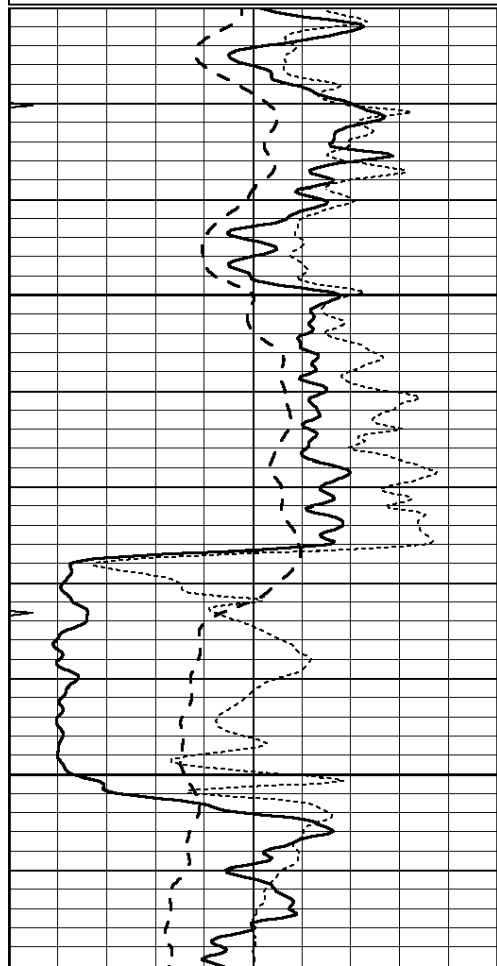
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3850
3900
3950
4000
4050
4100
4150
4200
4250
4300





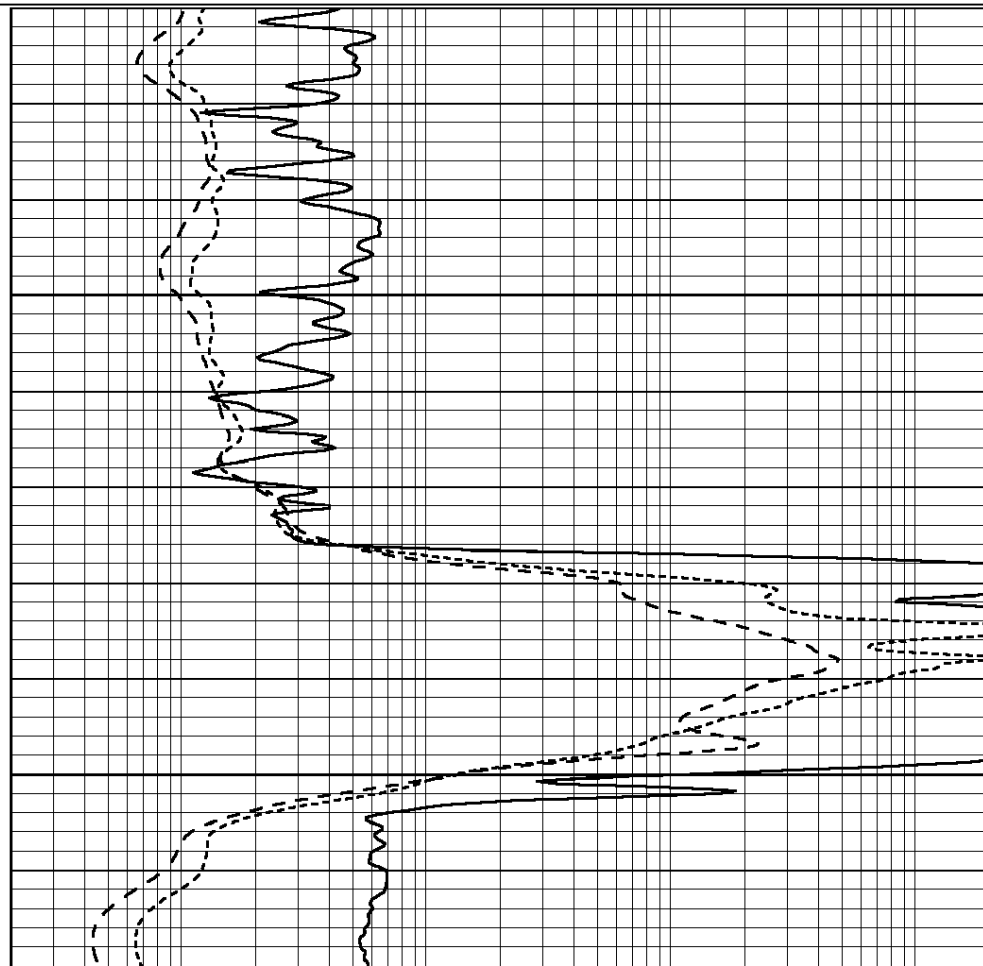
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Dataset Pathname: pass3.5
Presentation Format: dil
Dataset Creation: Thu Nov 10 21:51:02 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

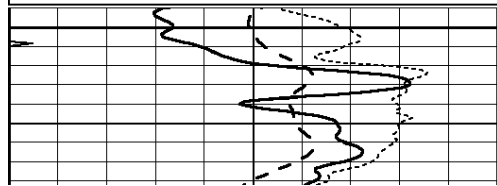
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0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



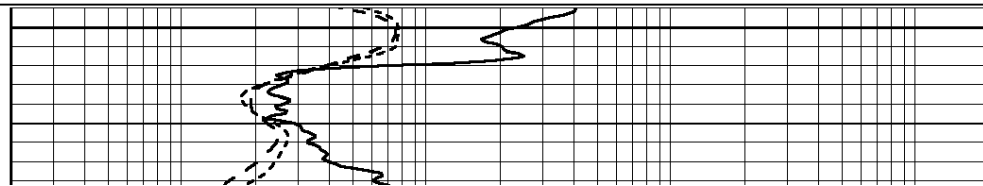
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0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

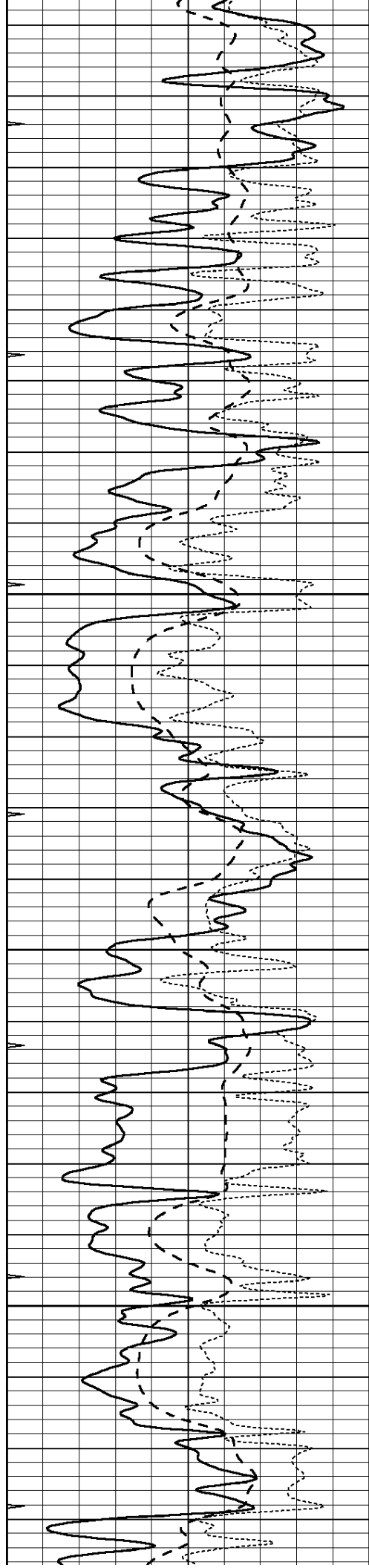
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Presentation Format:	dil
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Charted by:	Depth in Feet scaled 1:240

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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



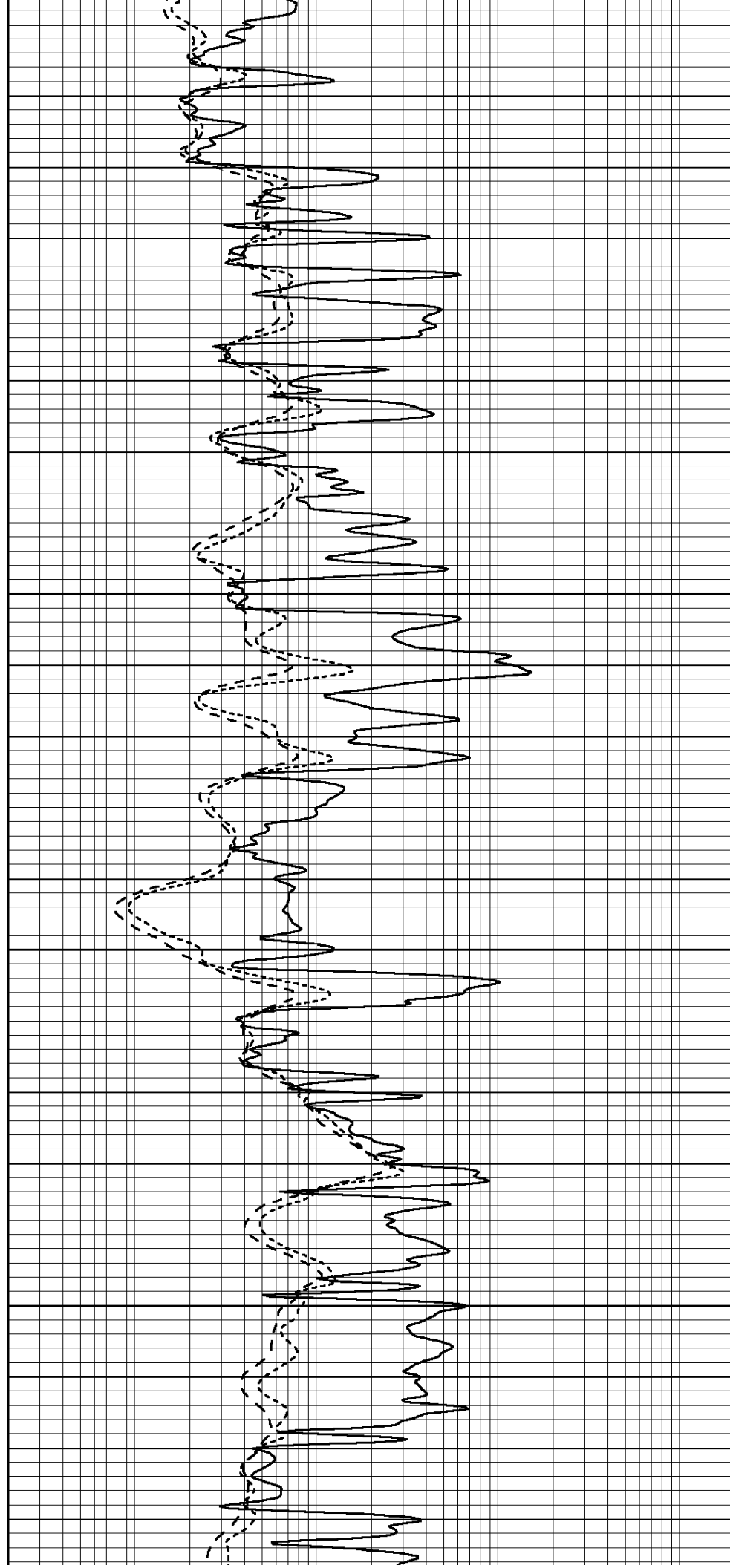


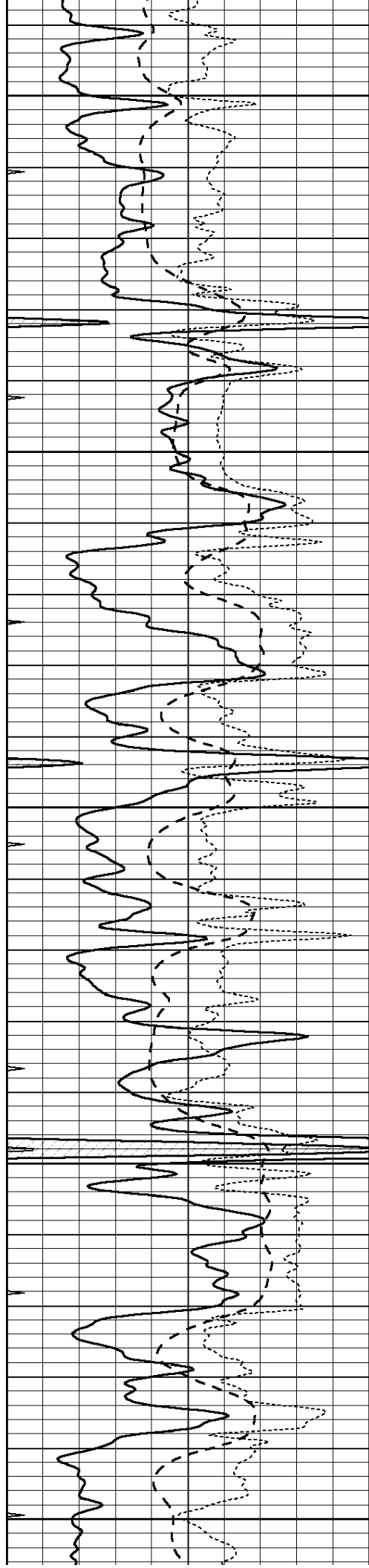
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3800





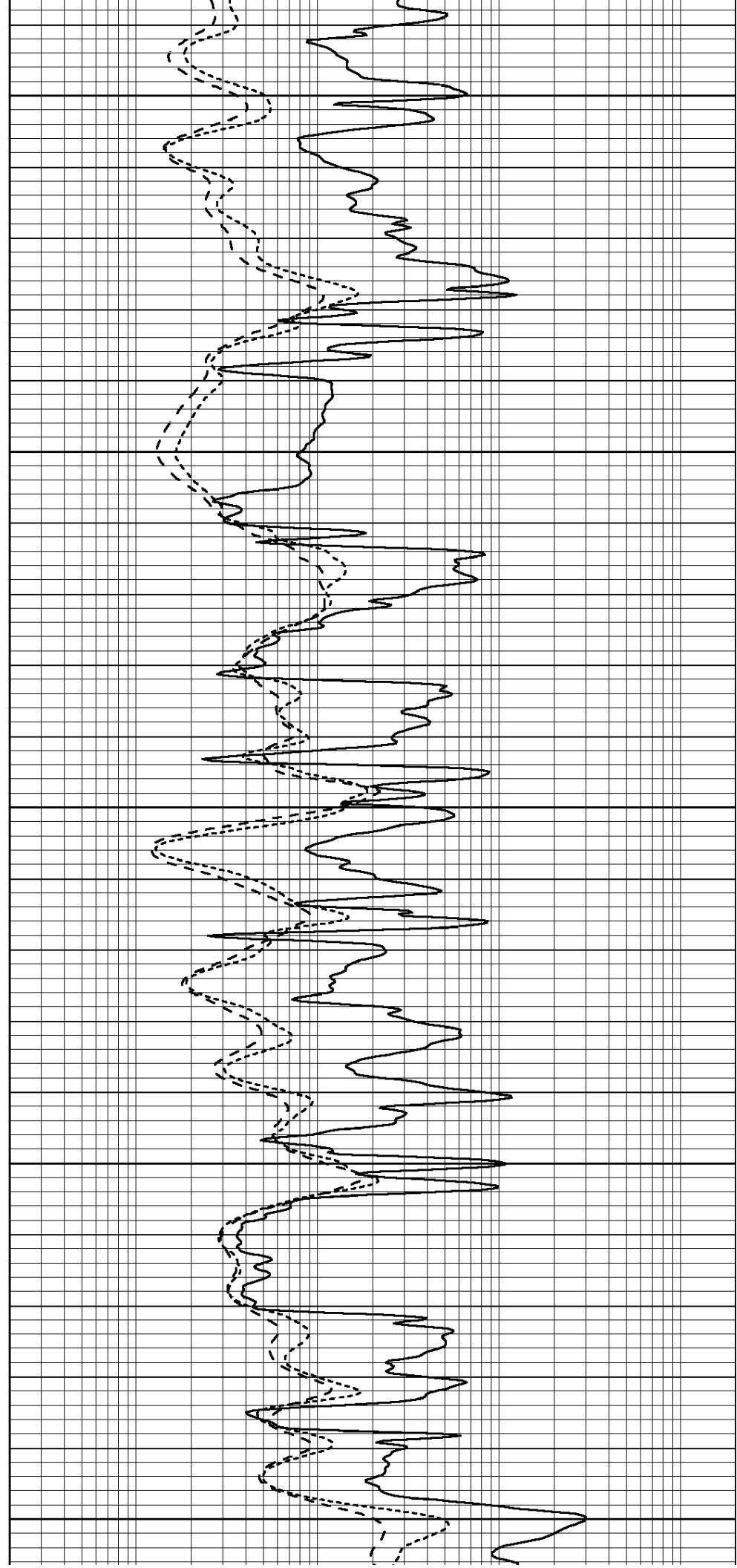
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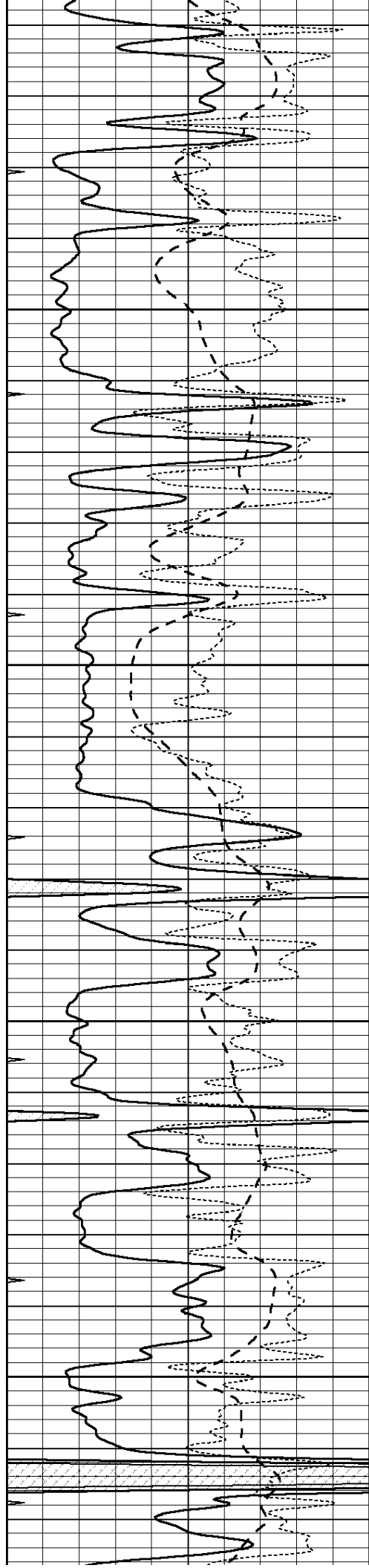
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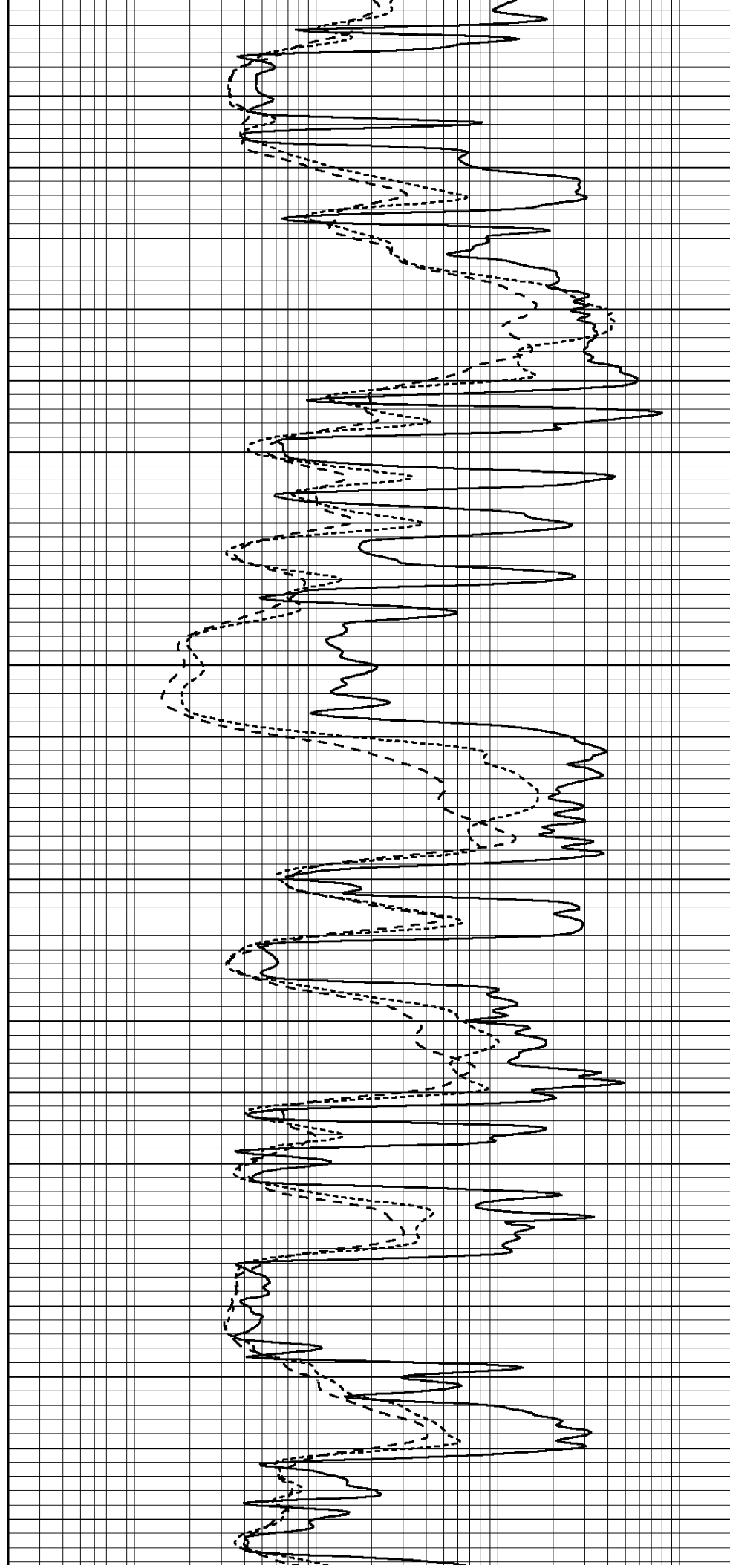


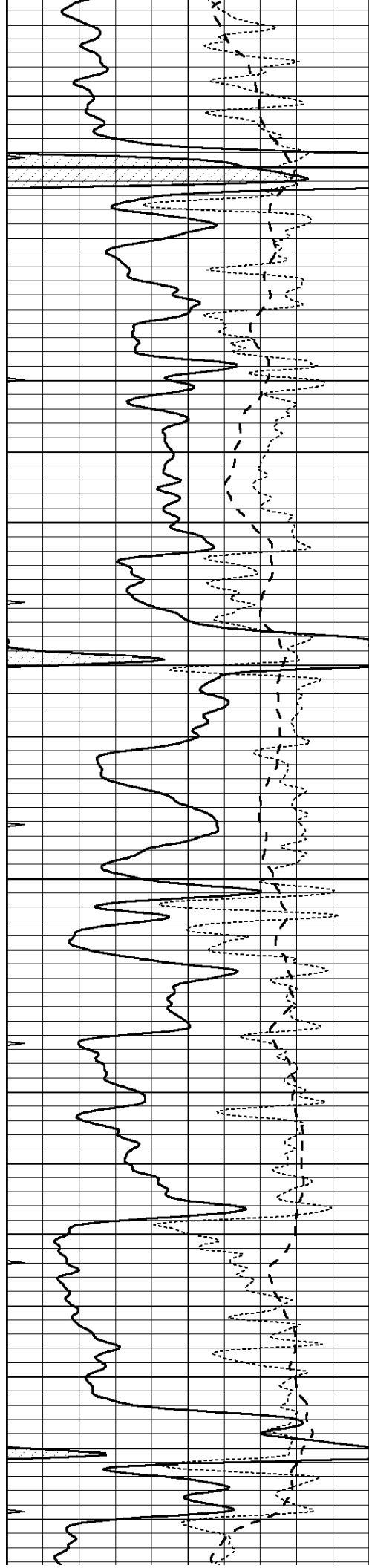
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4150

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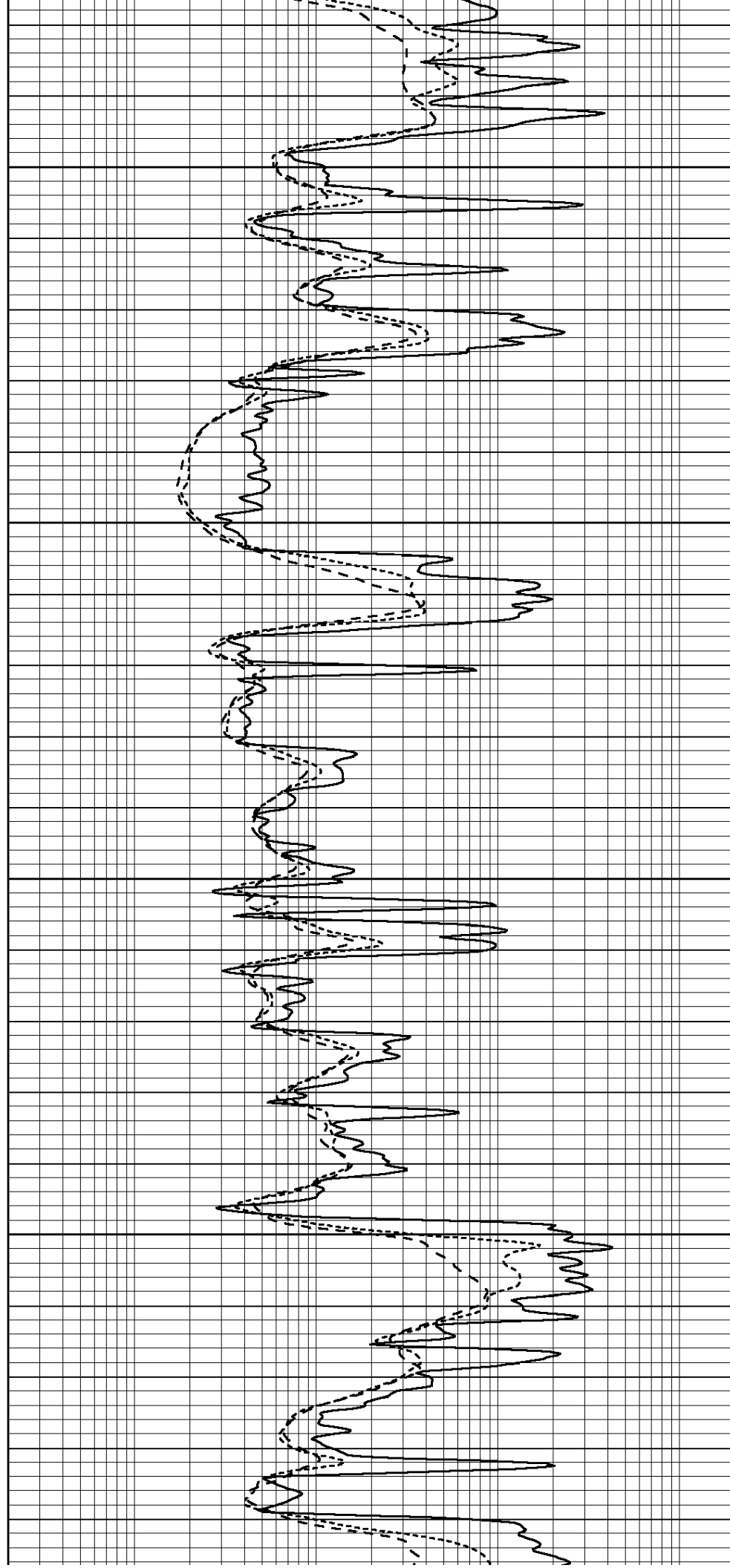


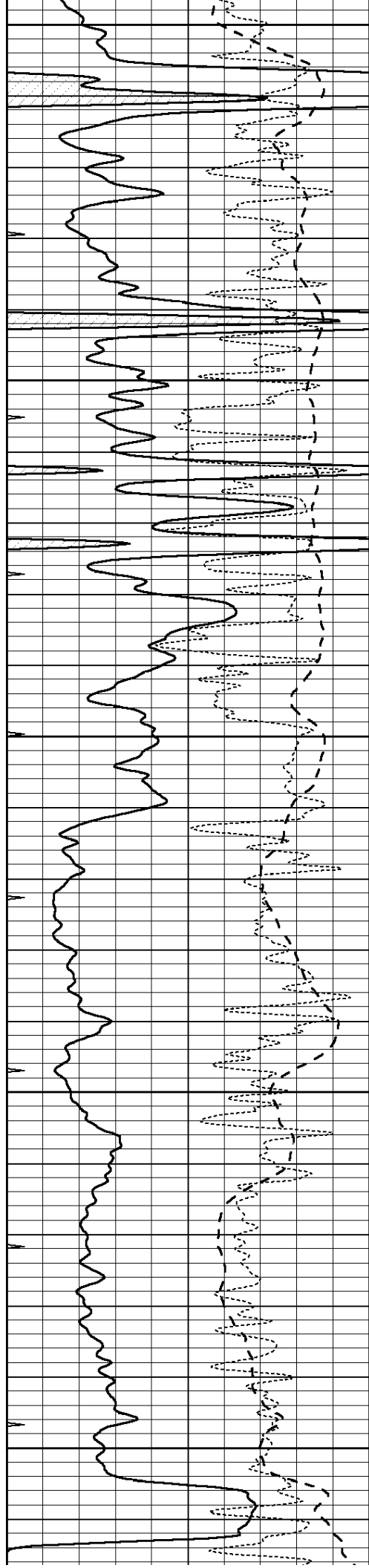
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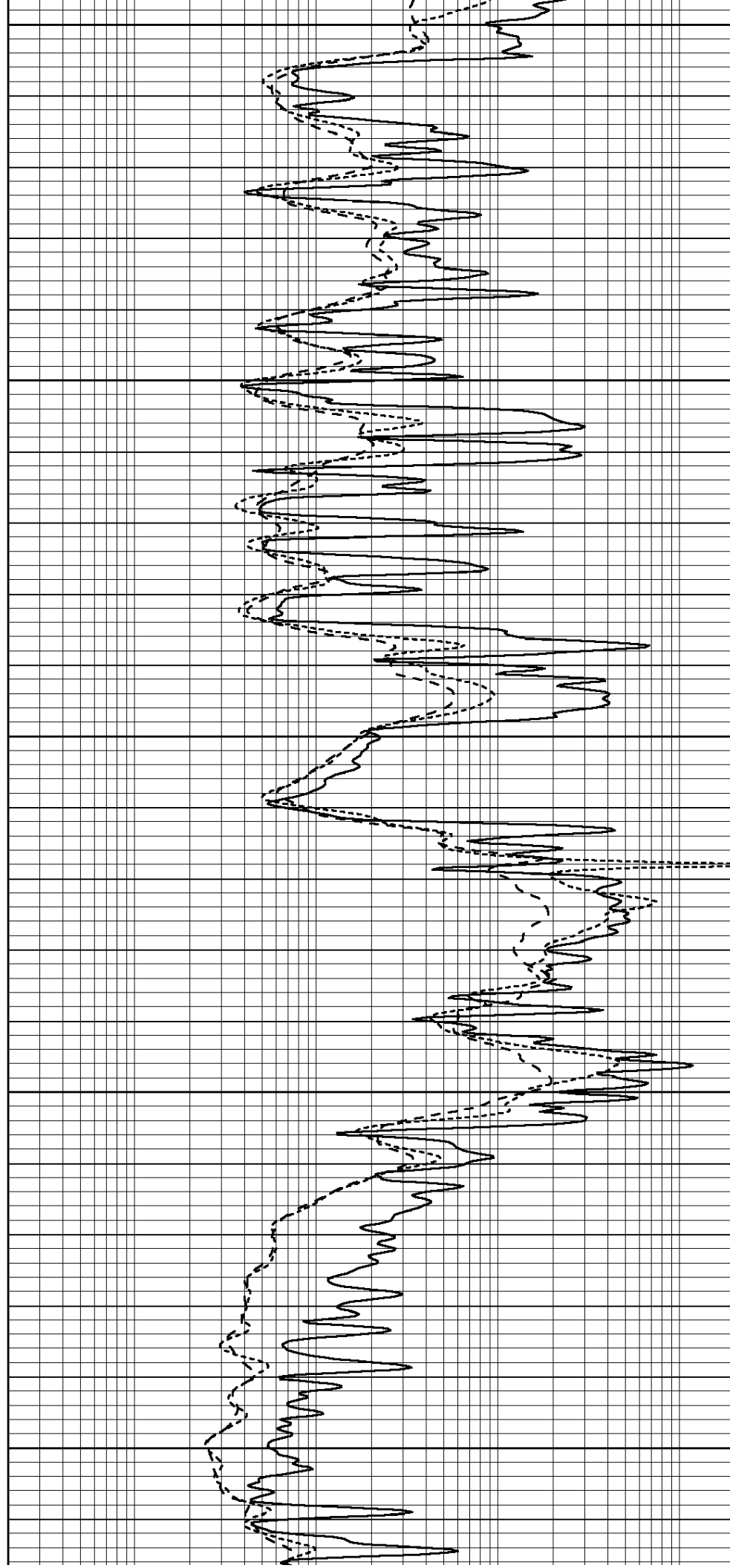
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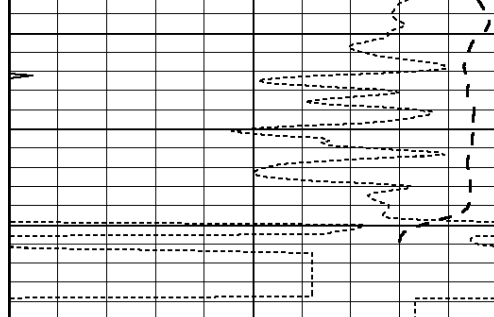
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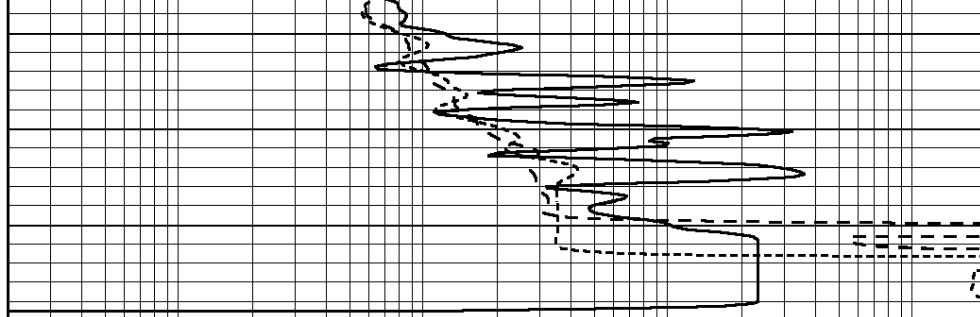
4700





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

4750



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



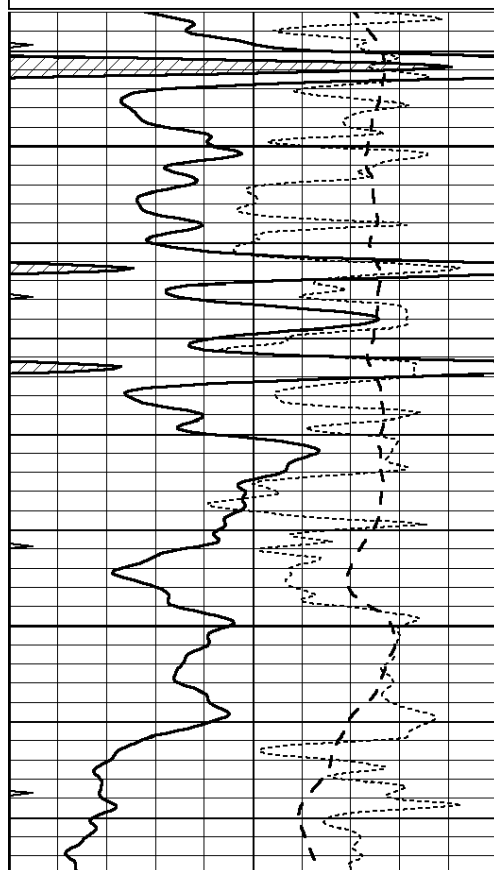
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 008006ddn.db
 Dataset Pathname: pass2.3
 Presentation Format: dil
 Dataset Creation: Thu Nov 10 21:49:14 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

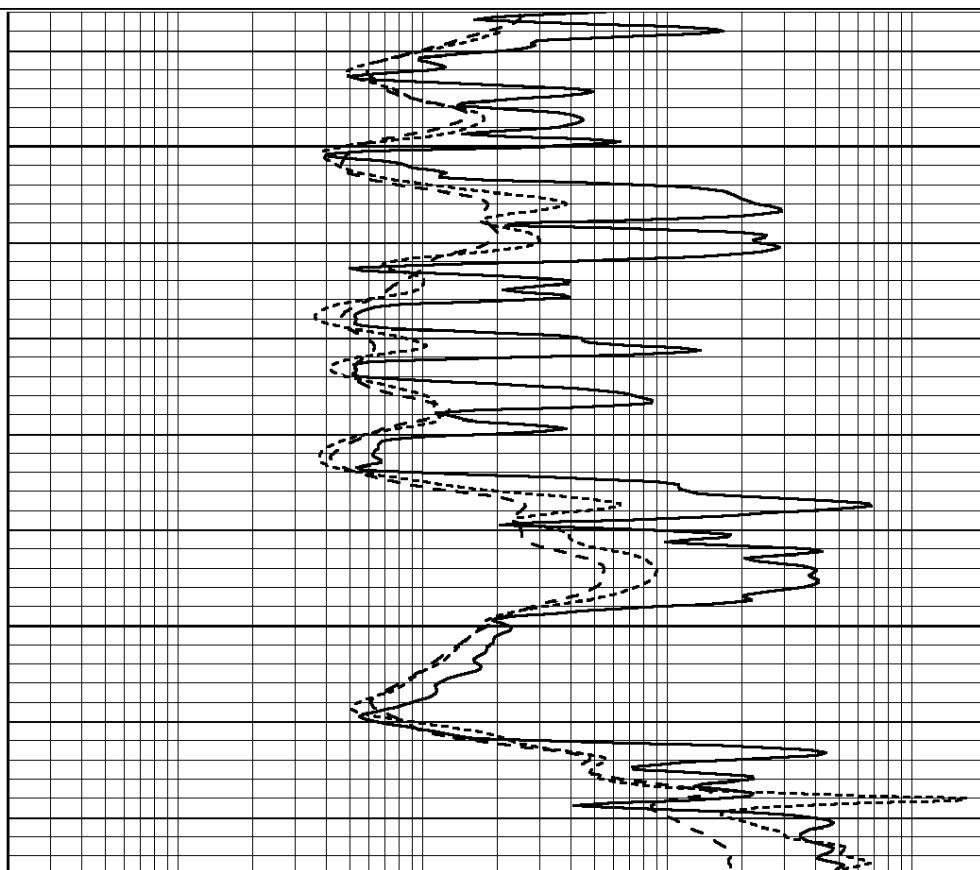
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

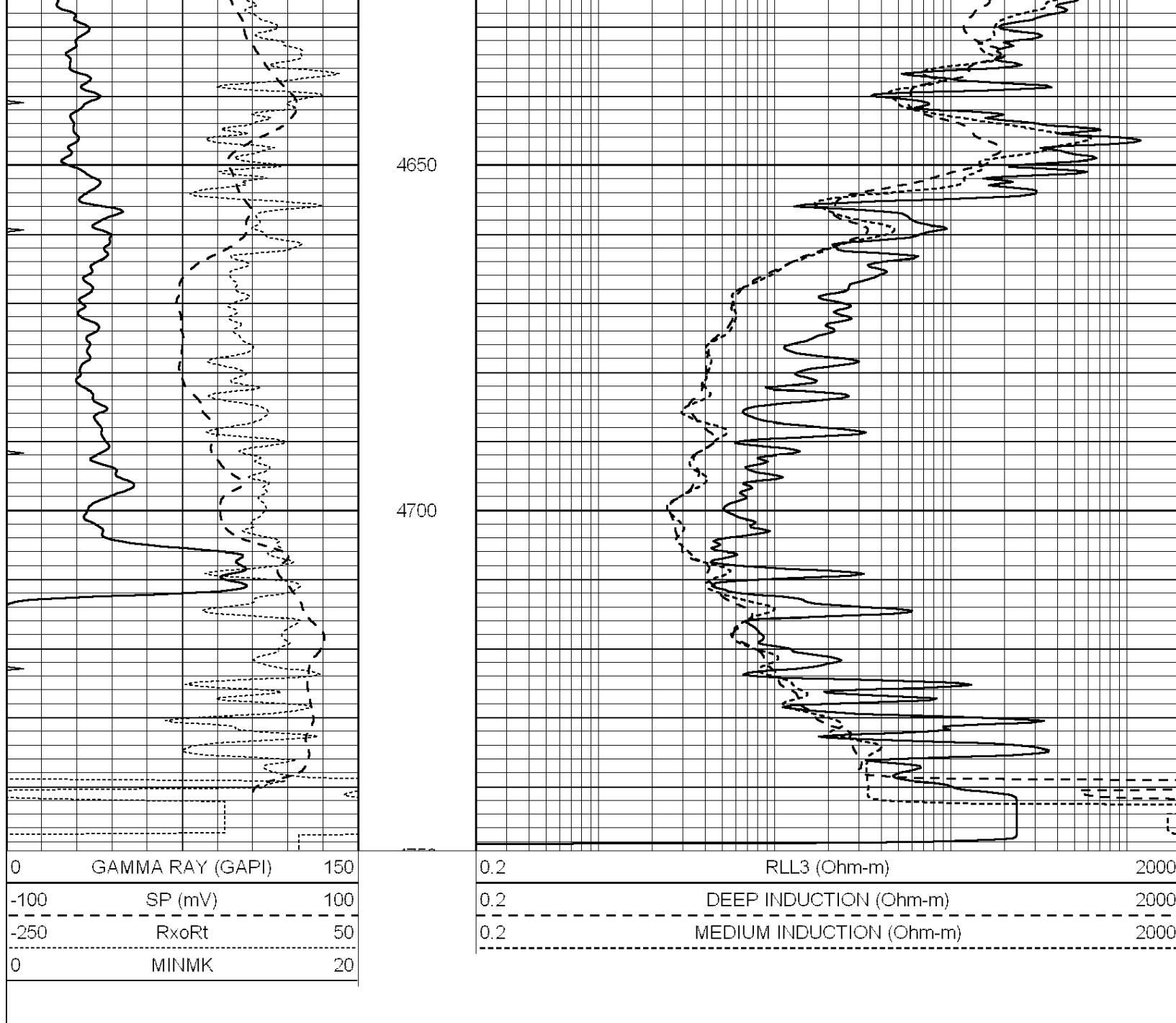
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



4550

4600





Calibration Report								
Database File:		008006ddn.db						
Dataset Pathname:		pass3.5						
Dataset Creation:		Thu Nov 10 21:51:02 2011 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model:			DIL5-GEAR					
Performed:			Thu Nov 10 00:41:13 2011					
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	530.000	-18.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	550.000	-13.000
Internal:	Zero	Cal		Zero	Cal		m	b
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

Medium 0.010 0.747 V 0.000 462.500 mm/m 627.607 -0.004

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Thu Nov 10 00:27:48 2011

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	8.30	in	3.15	V	
Large Ring	13.00	in	4.72	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 Nov 10 00:55:11 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps