



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	RITCHIE EXPLORATION, INC.		
Well	REBEIN #1		
Field	WILDCAT		
County	HODGEMAN		
State	KANSAS		
Location:	API # : 15-083-21846		Other Services
SEC 32 TWP 24S RGE 24W		CDL/CNL	
Permanent Datum	GROUND LEVEL	Elevation	2483
Log Measured From	KELLY BUSHING 12' A.G.L.		K.B. 2495
Drilling Measured From	KELLY BUSHING		D.F. 2483
Date	9-30-12		
Run Number	ONE		
Depth Driller	5070		
Depth Logger	5070		
Bottom Logged Interval	5068		
Top Log Interval	00		
Casing Driller	356		
Casing Logger	356		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1 / 52		
pH / Fluid Loss	10.5 / 9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.70 @ 75F		
Rmf @ Meas. Temp	0.53 @ 75F		
Rmc @ Meas. Temp	0.84 @ 75F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.420 @ 125F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:30 P.M.		
Maximum Recorded Temperature	125F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MACK ARMSTRONG		

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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

SUPERIOR WELL SERVICES
THANK YOU FOR YOUR BUSINESS



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 009674ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil2
Dataset Creation: Sun Sep 30 23:25:54 2012
Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

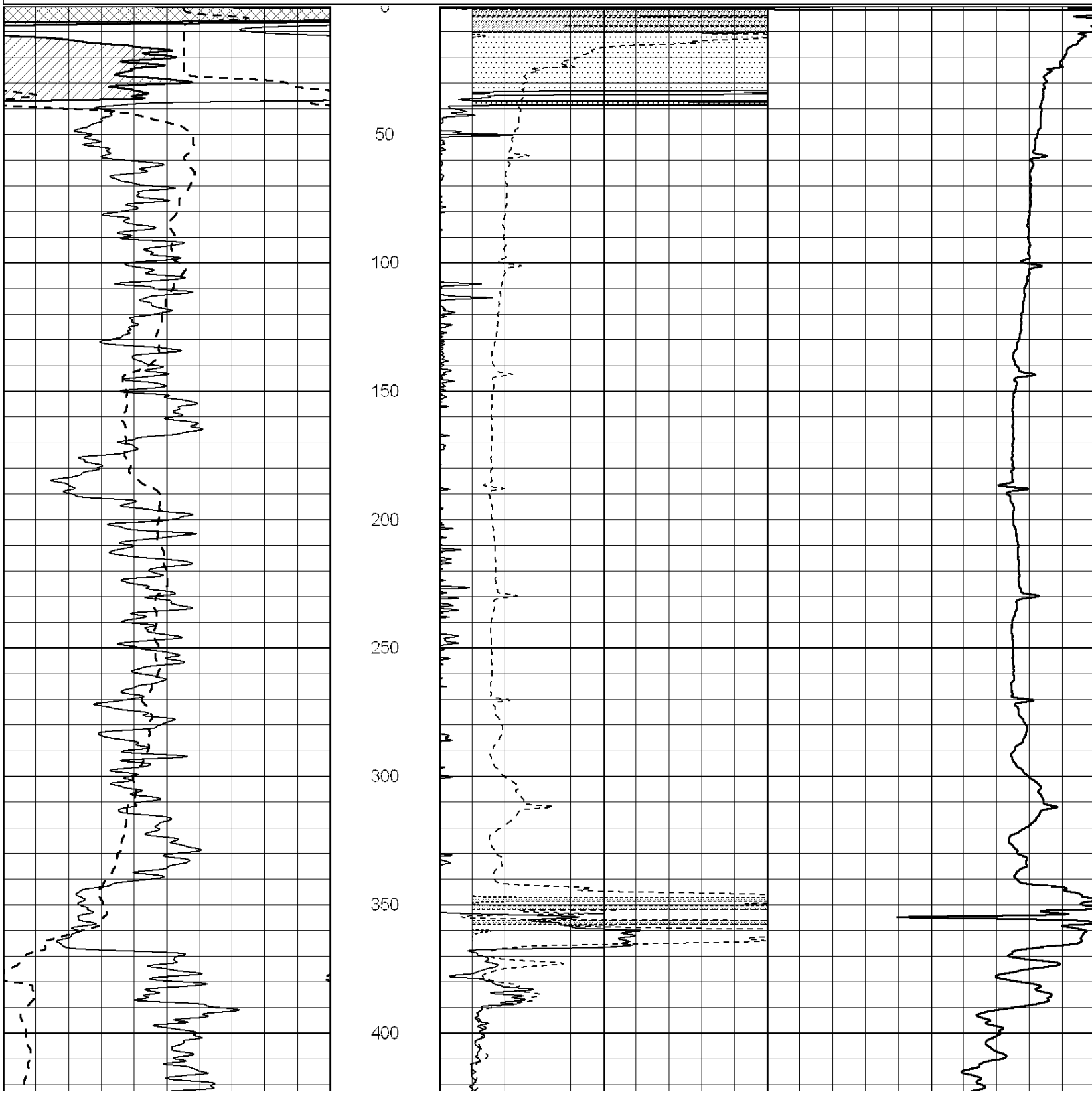
0 RLL3 (Ohm-m) 50

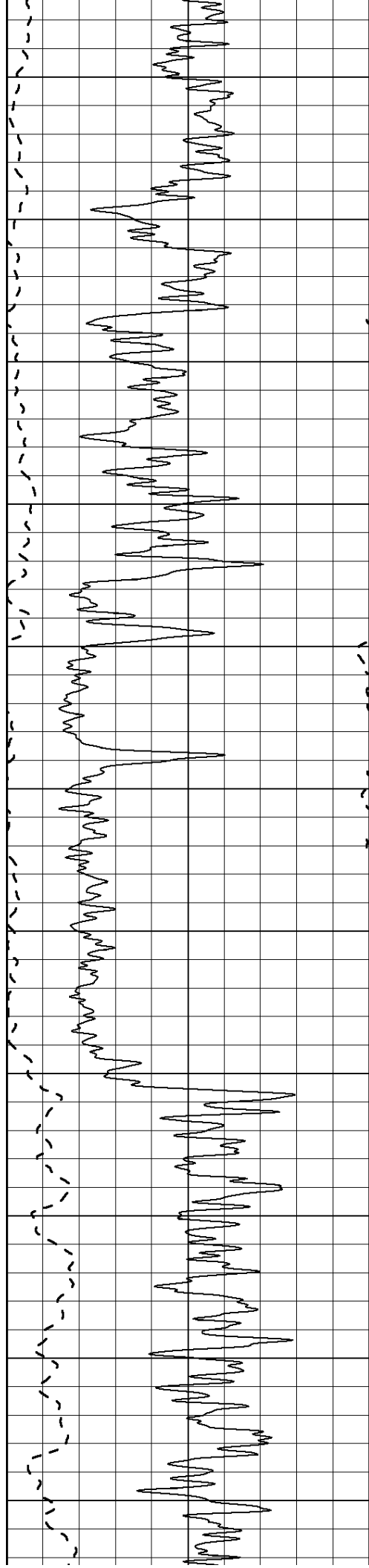
0 Deep Induction (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500





450

500

550

600

650

700

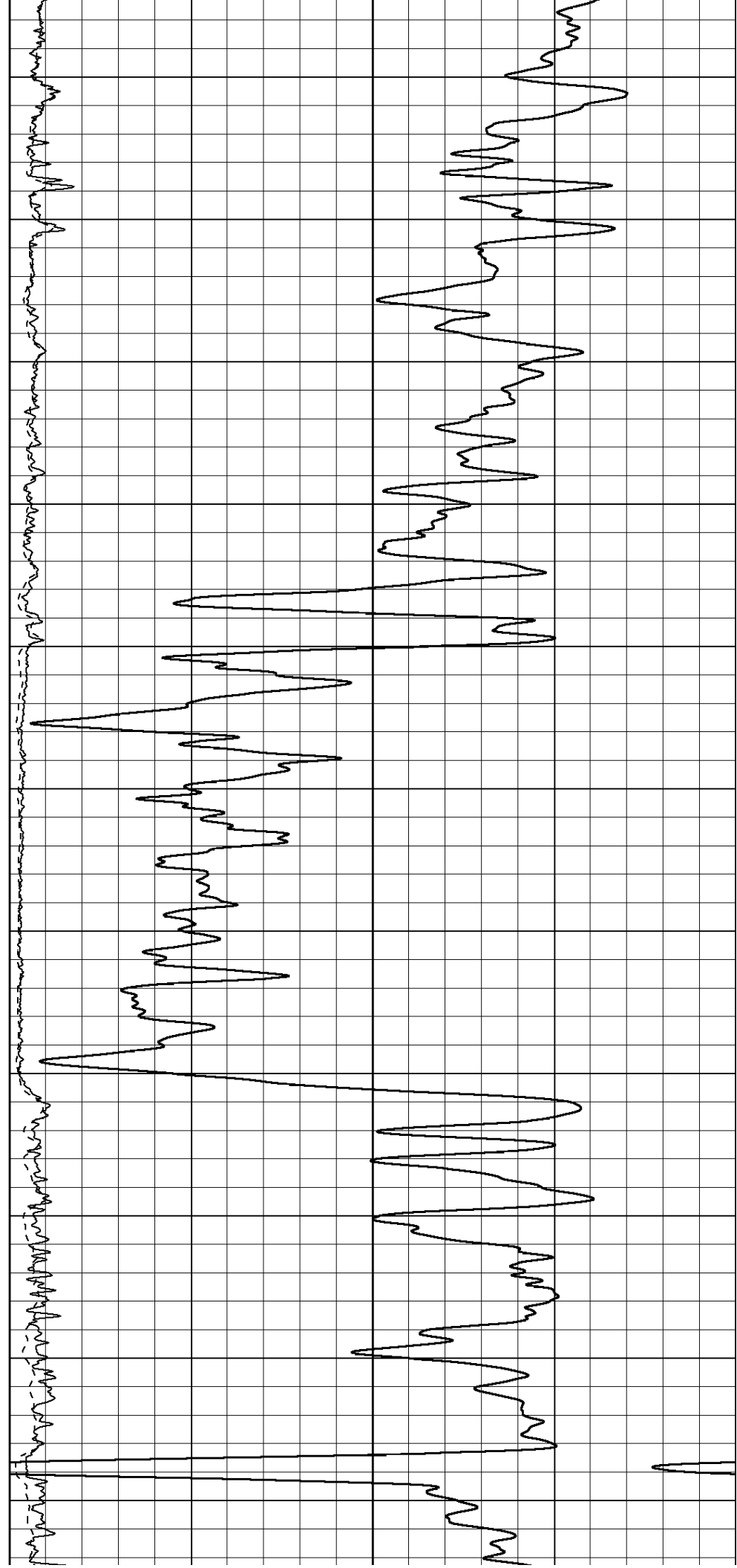
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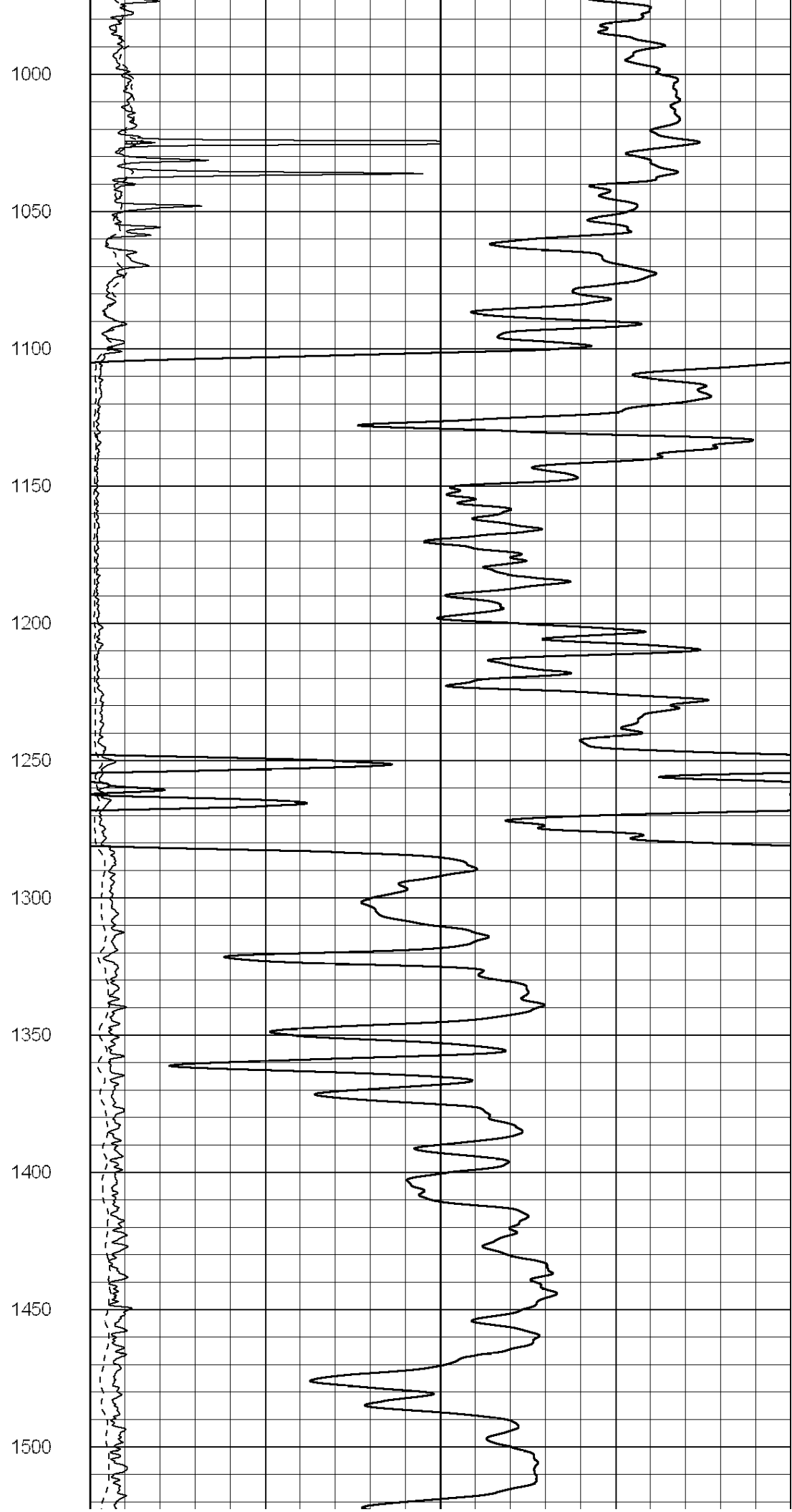
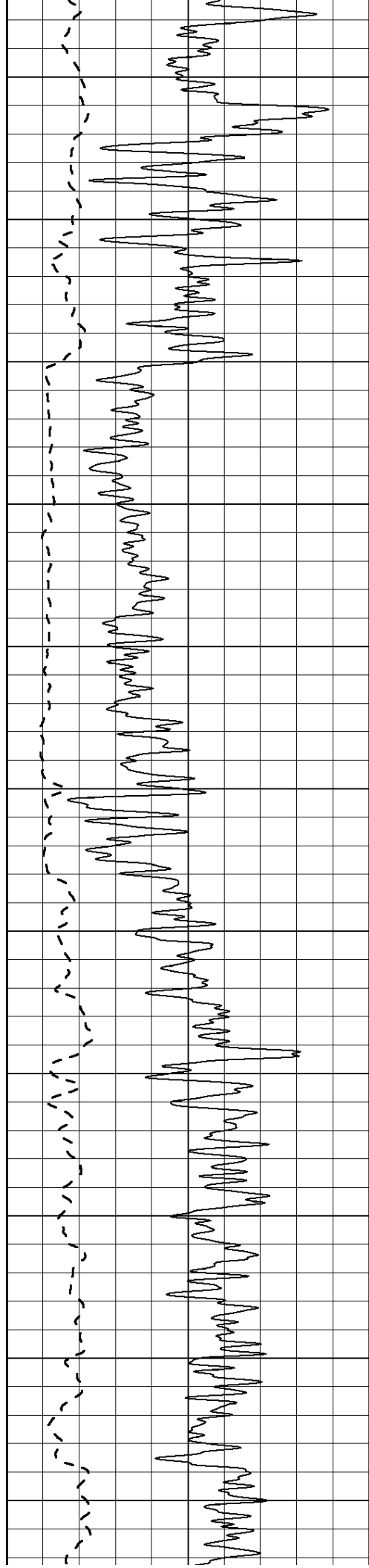
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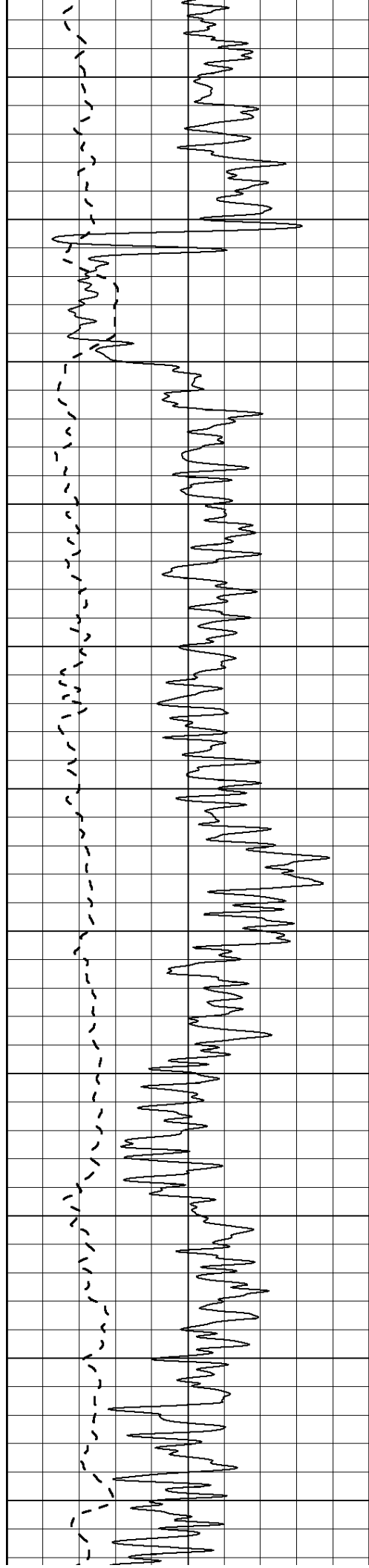
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900

950







1550

1600

1650

1700

1750

1800

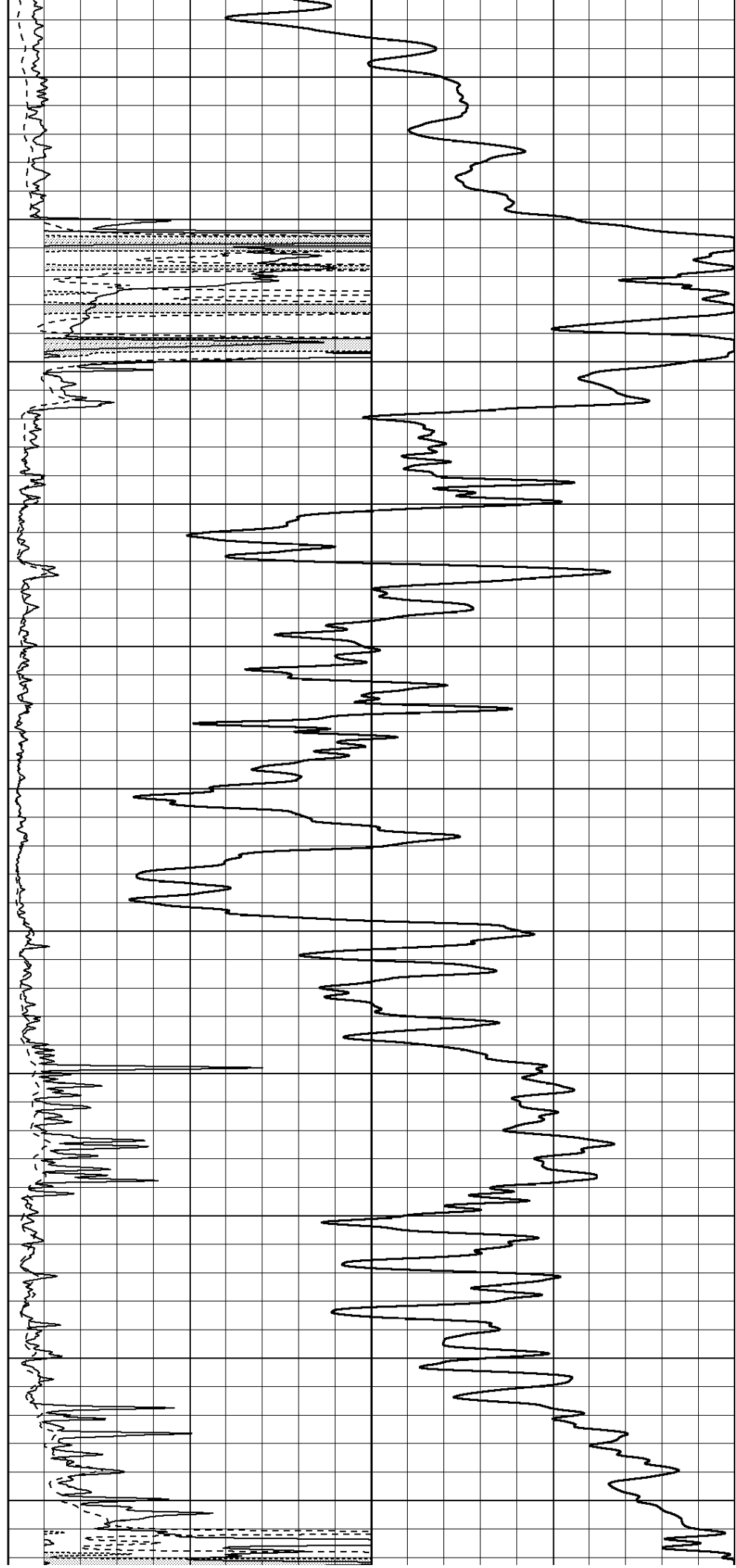
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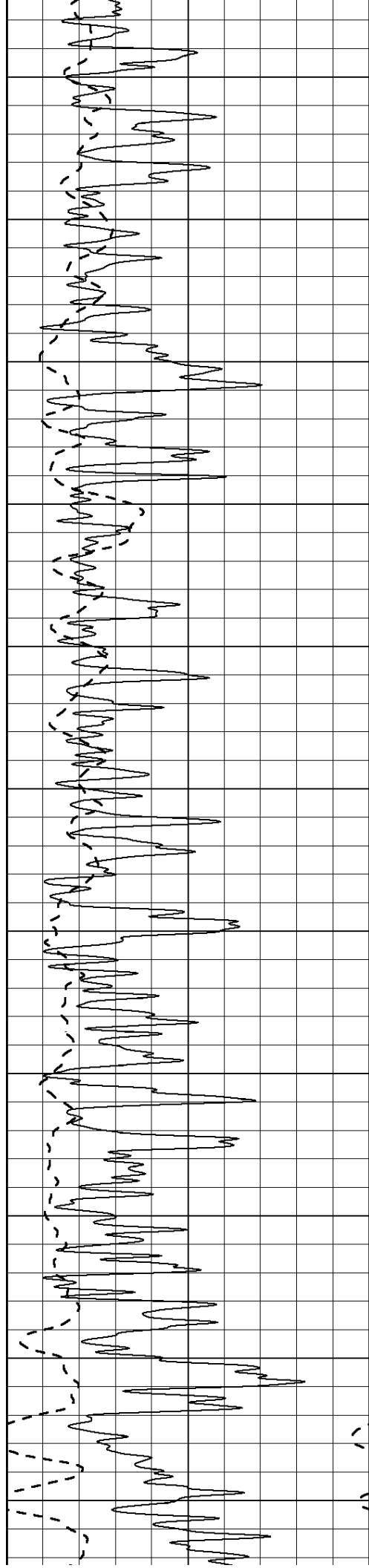
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1950

2000

2050





2100

2150

2200

2250

2300

2350

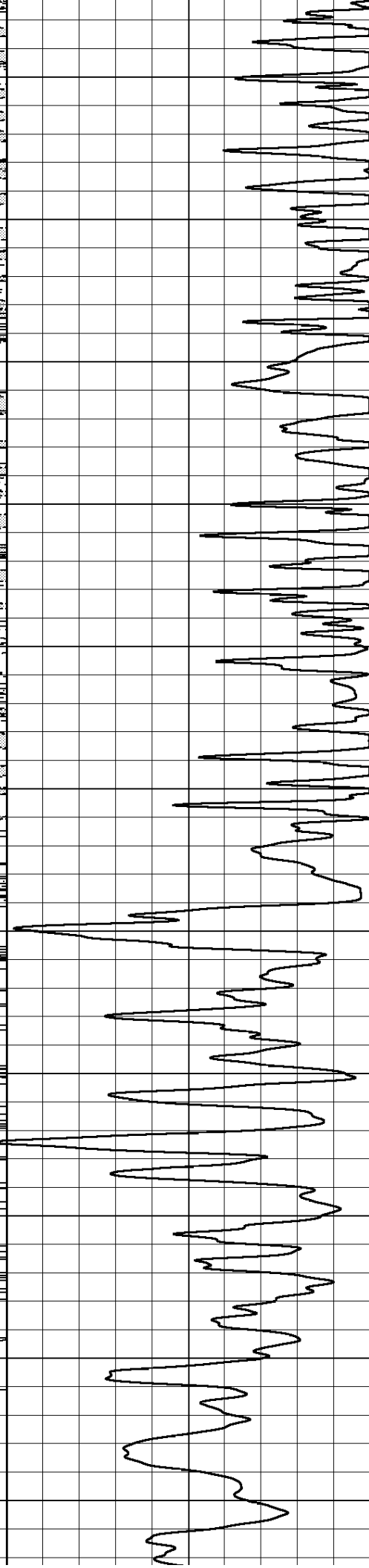
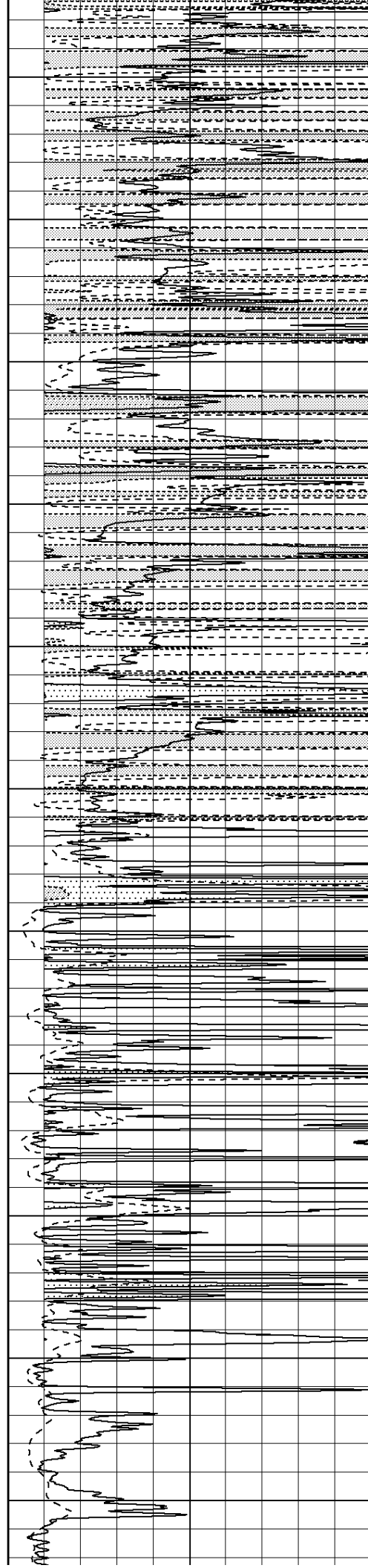
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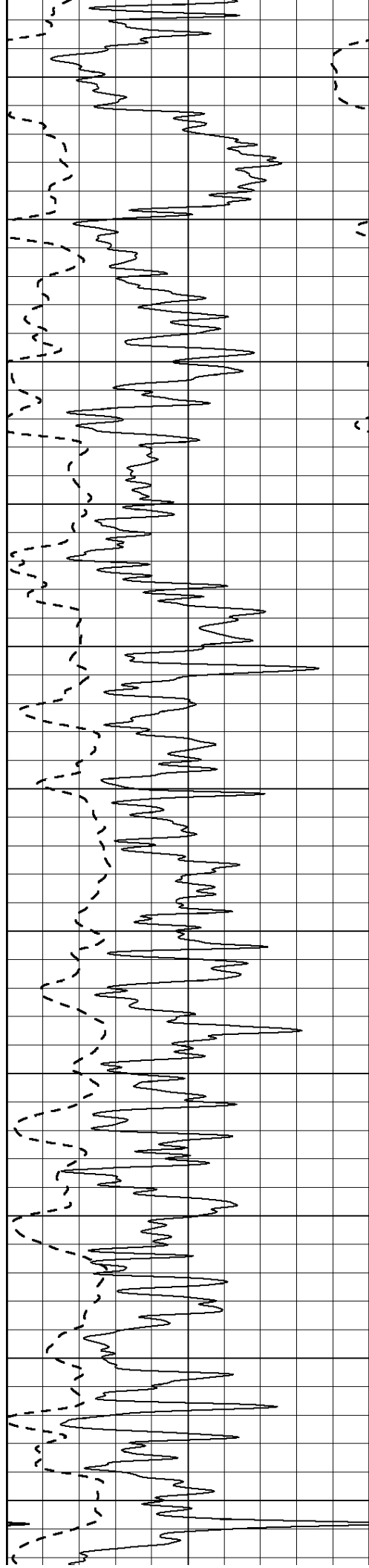
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2550

2600





2650

2700

2750

2800

2850

2900

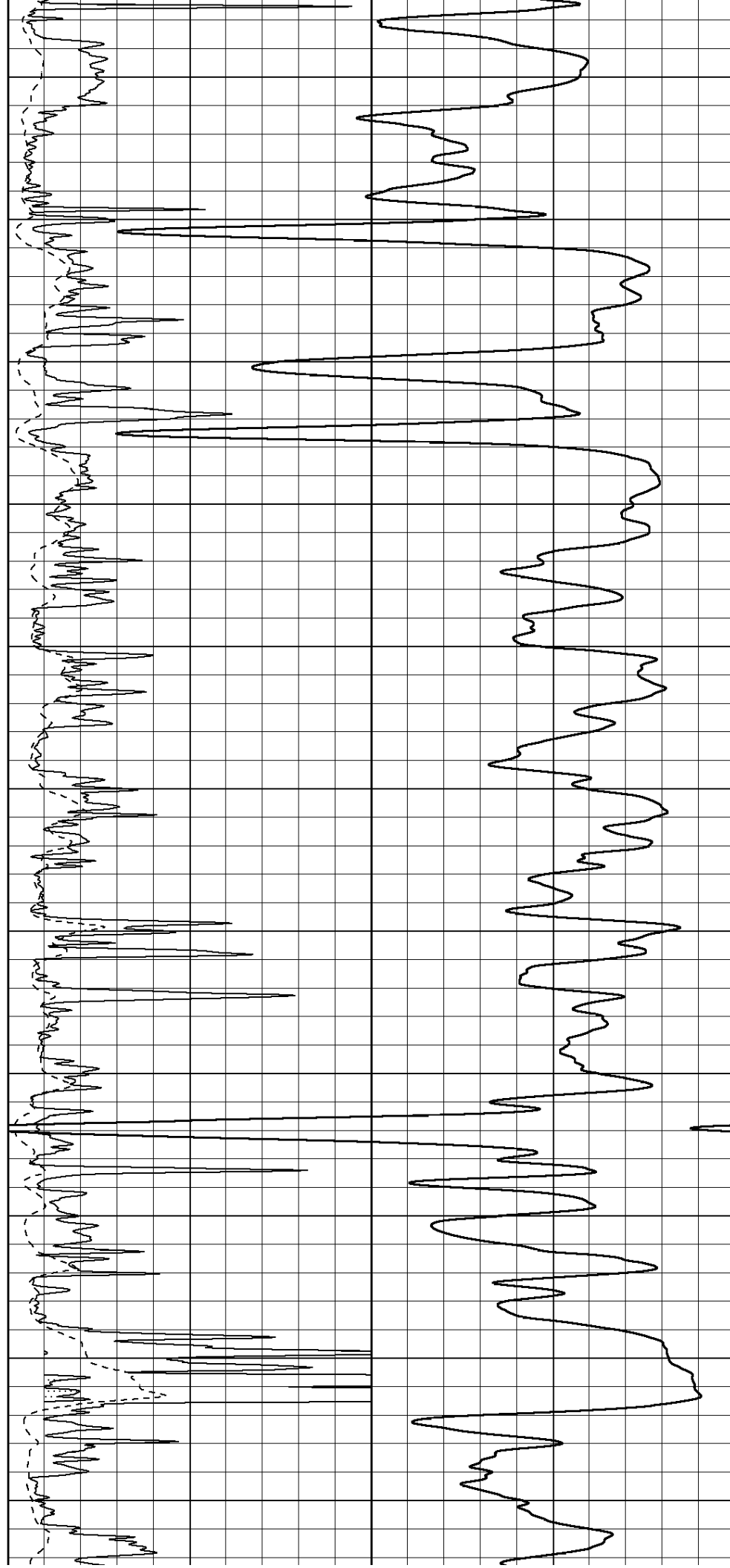
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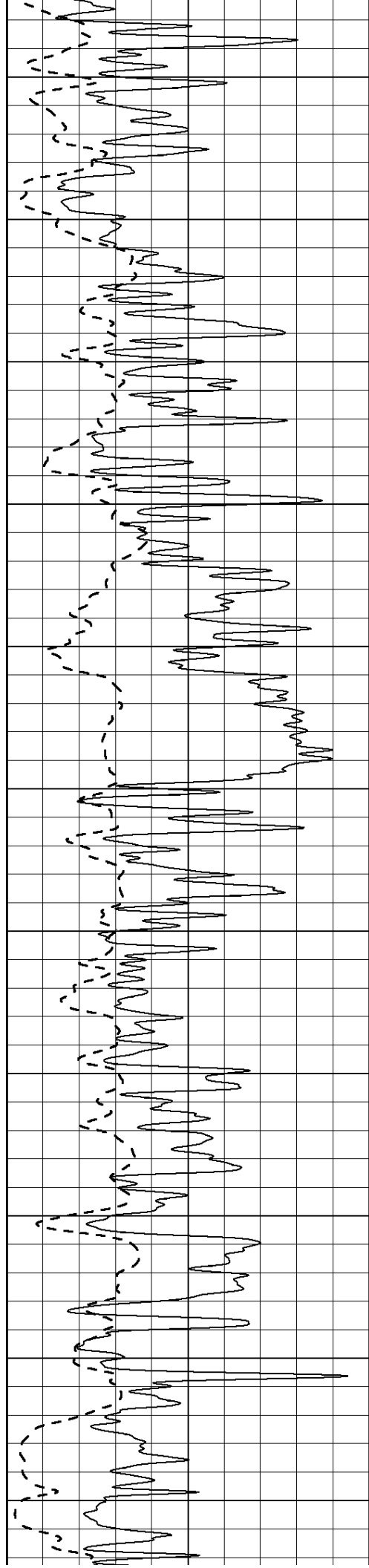
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3150





3200

3250

3300

3350

3400

3450

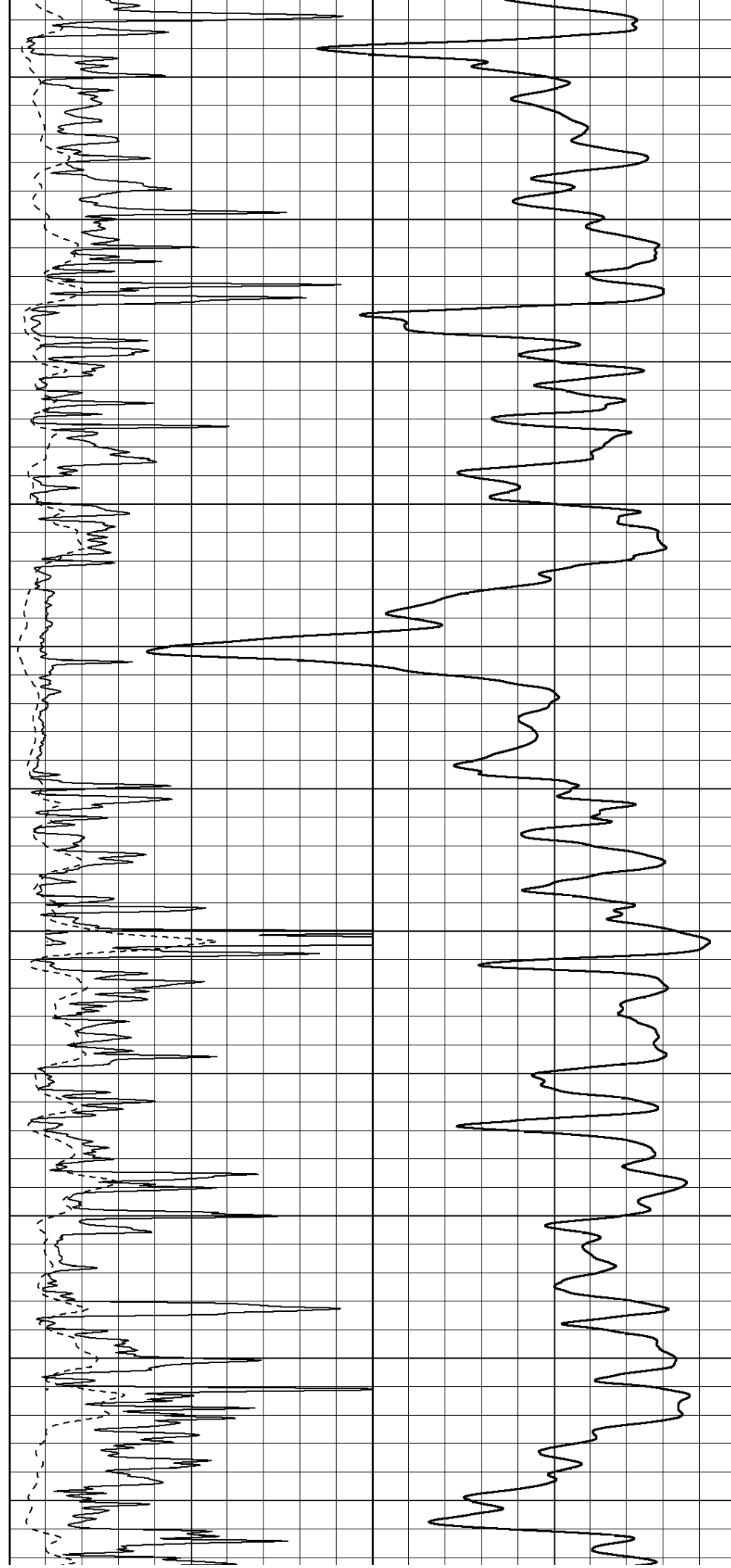
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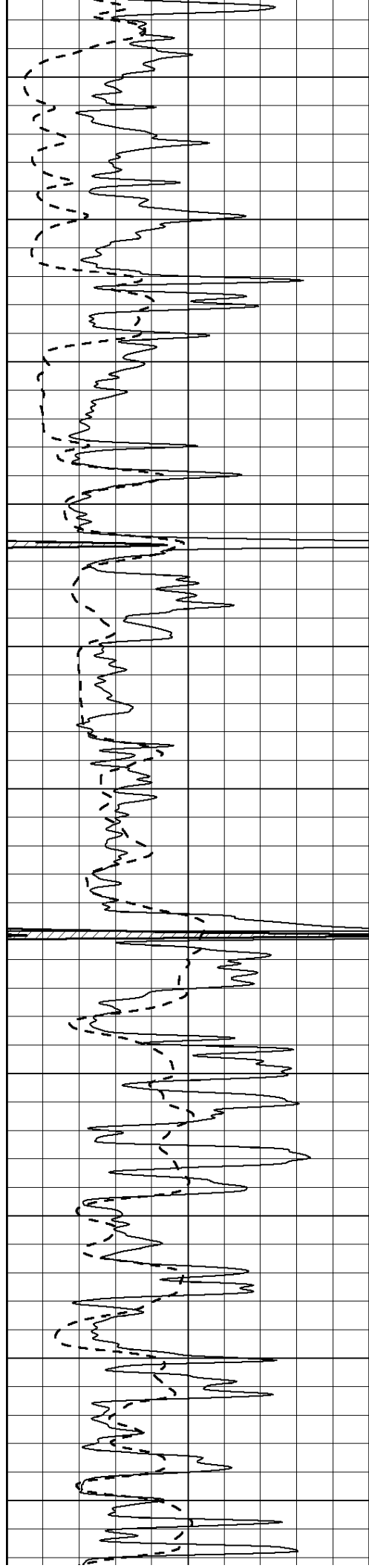
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3700





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3800

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3950

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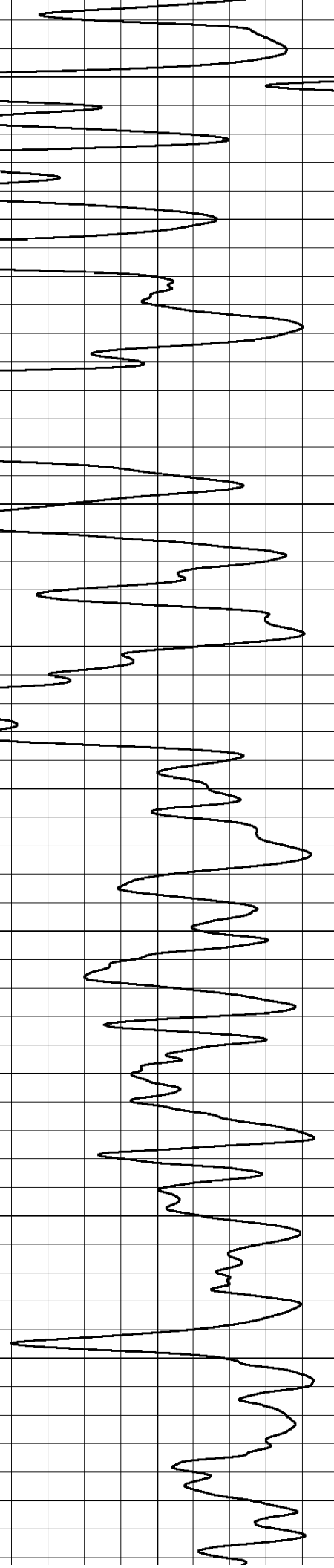
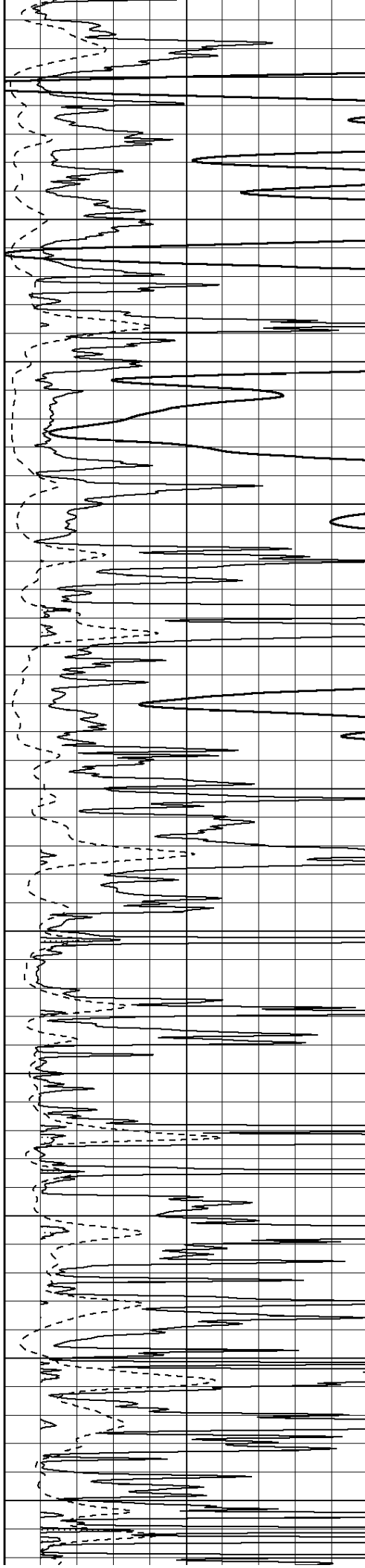
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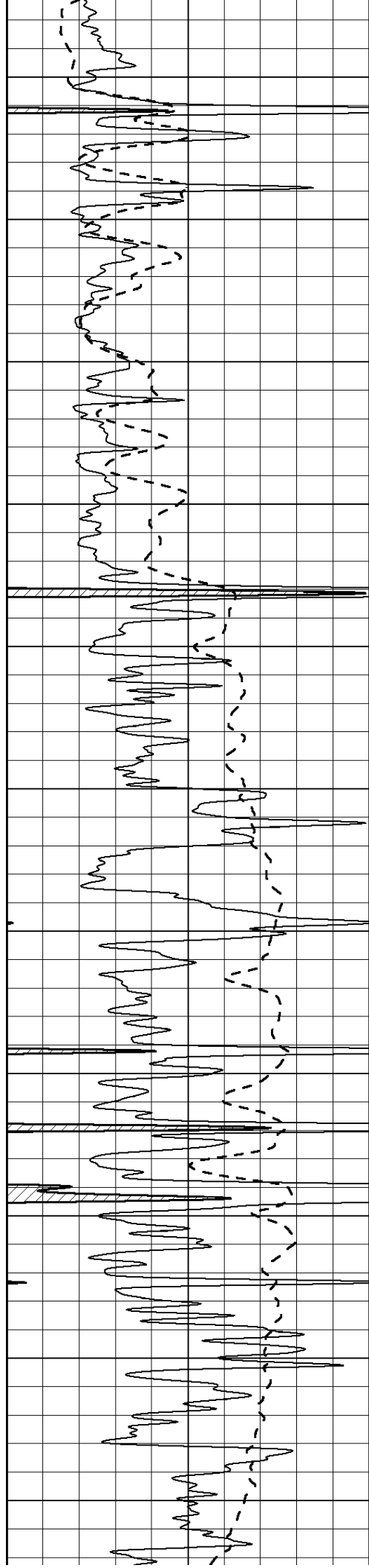
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4350

4400

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4500

4550

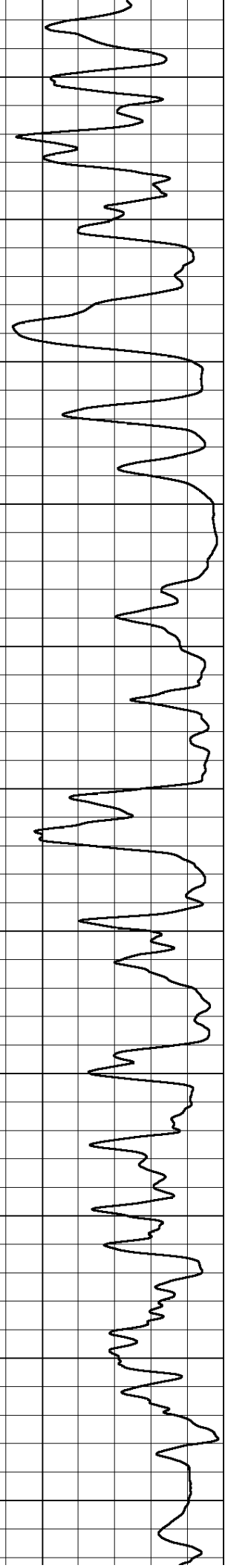
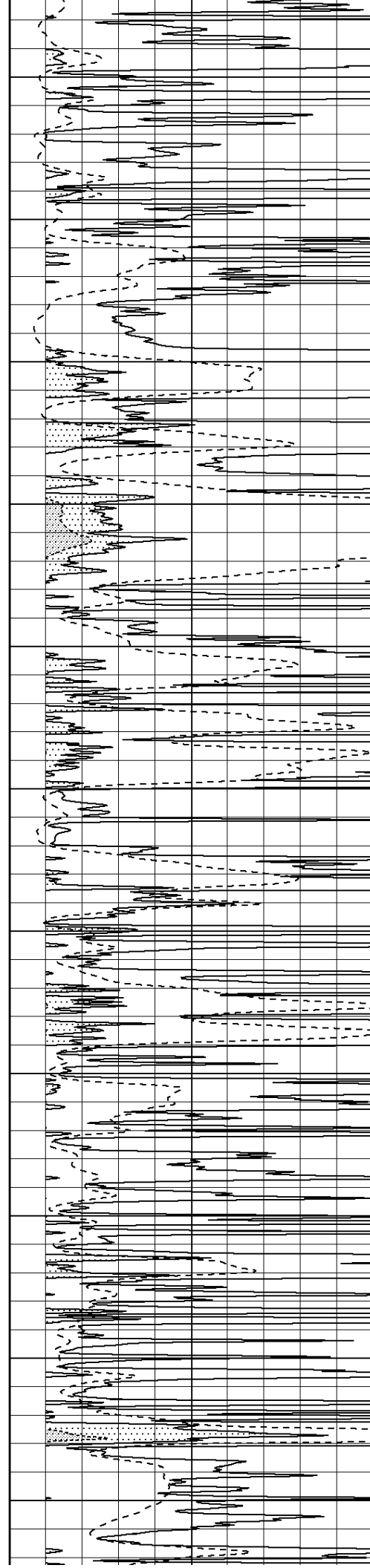
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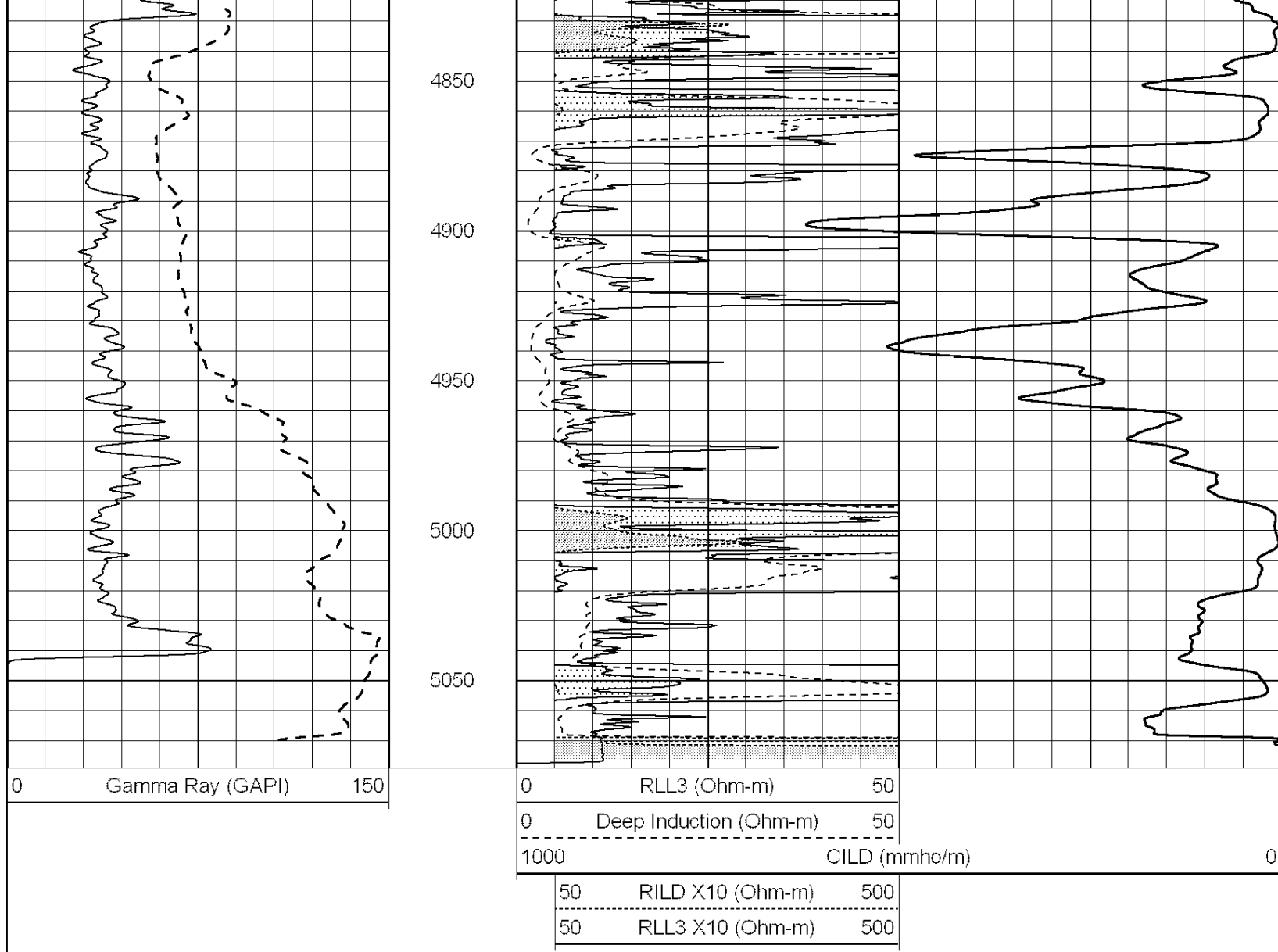
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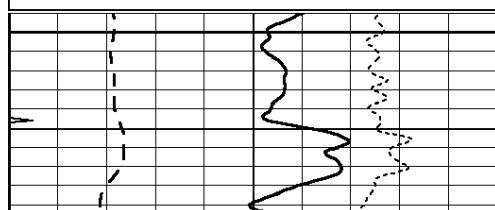


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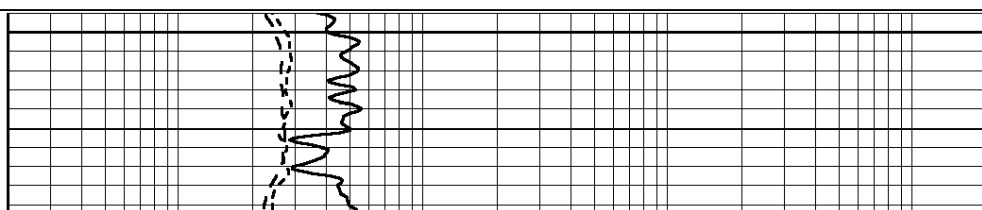
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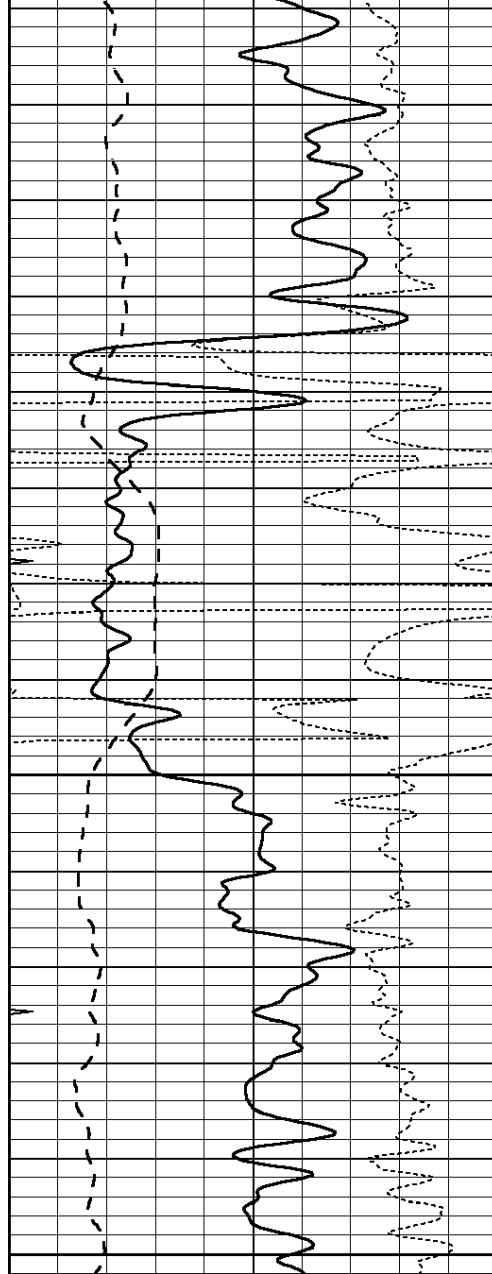
Database File: 009674ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil
Dataset Creation: Sun Sep 30 23:25:54 2012
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



1550



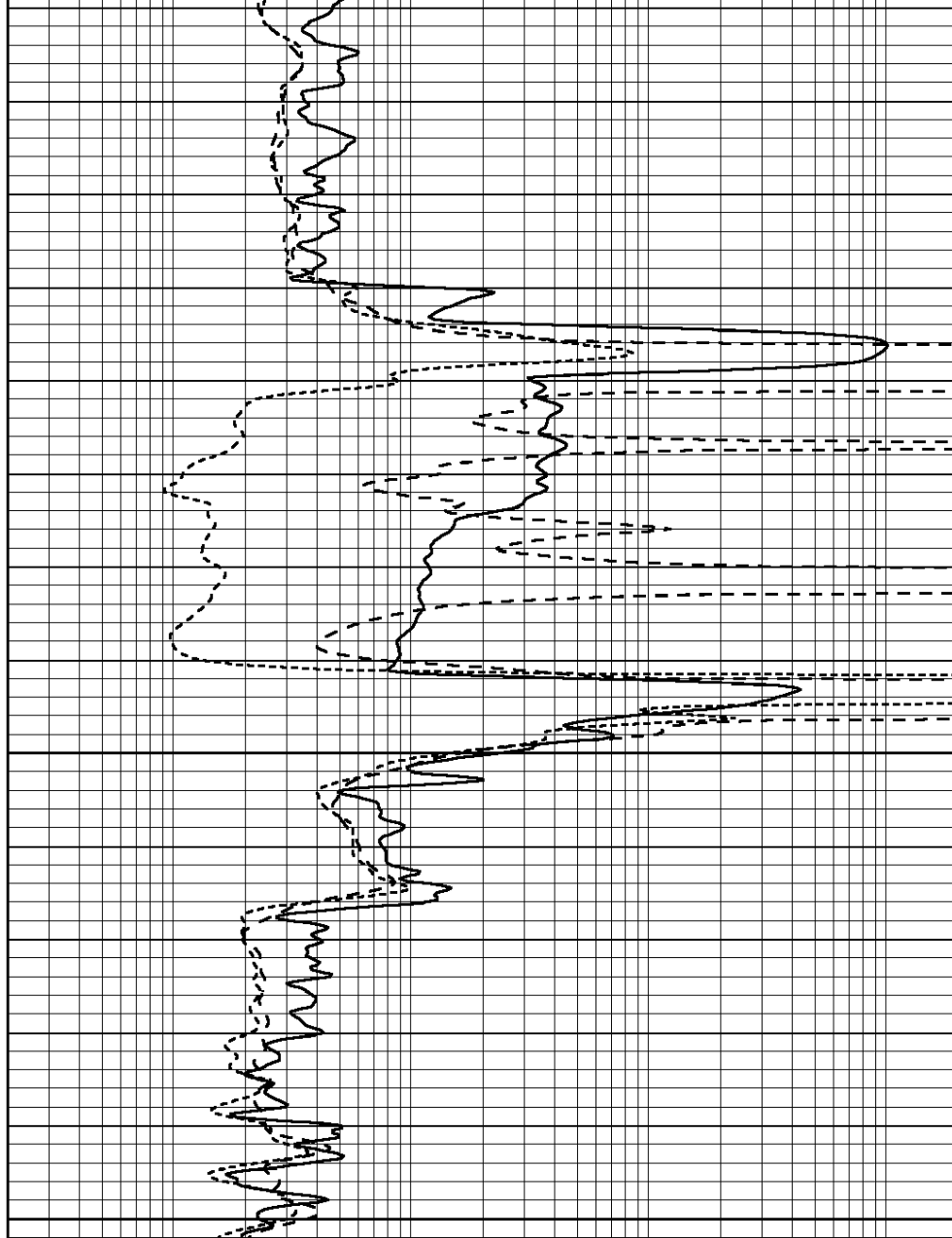


1600

1650

1700

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



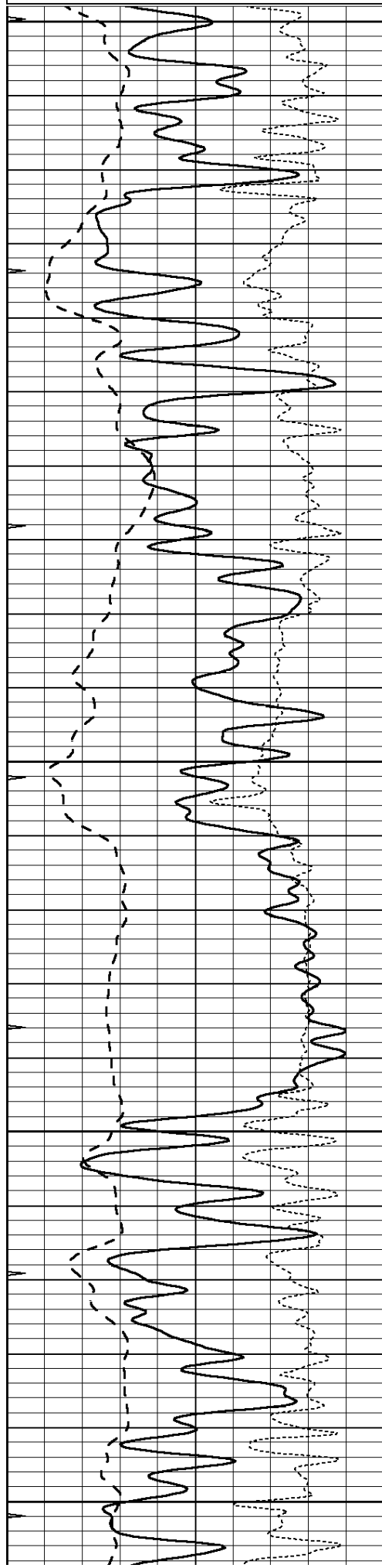
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MAIN SECTION

Database File: 009674ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil
Dataset Creation: Sun Sep 30 23:25:54 2012
Charted by: Depth in Feet scaled 1:240

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

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



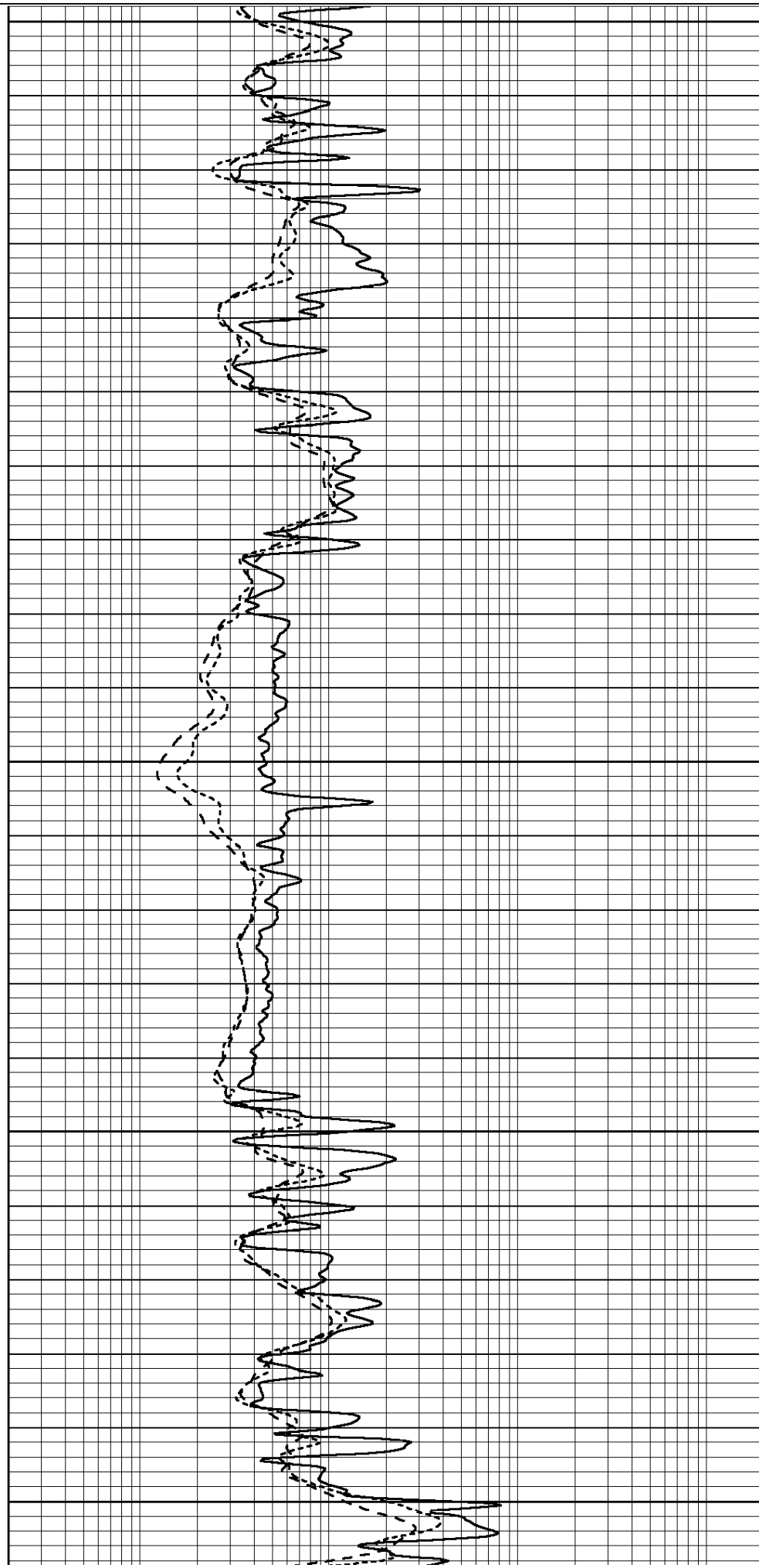
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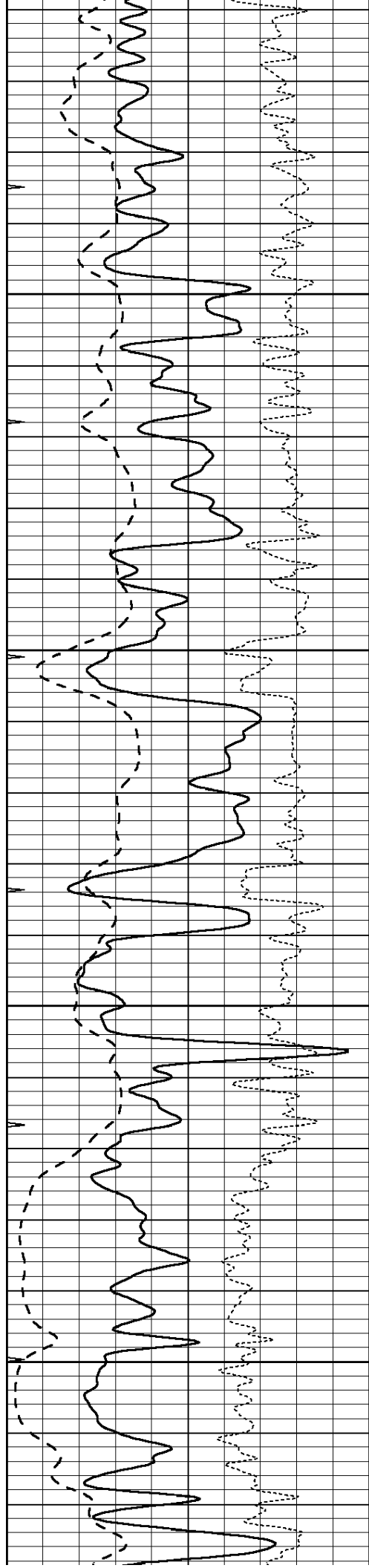
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3500



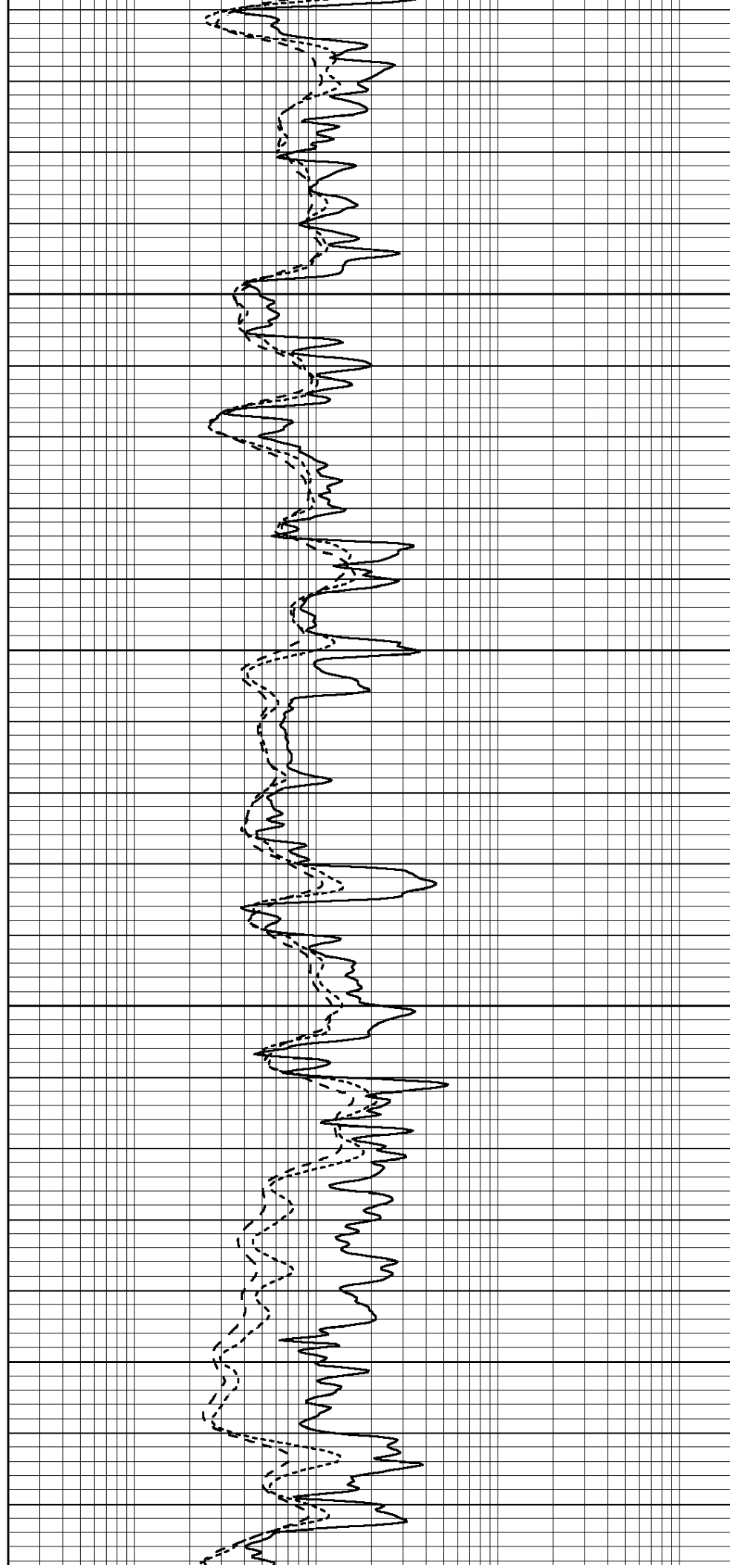


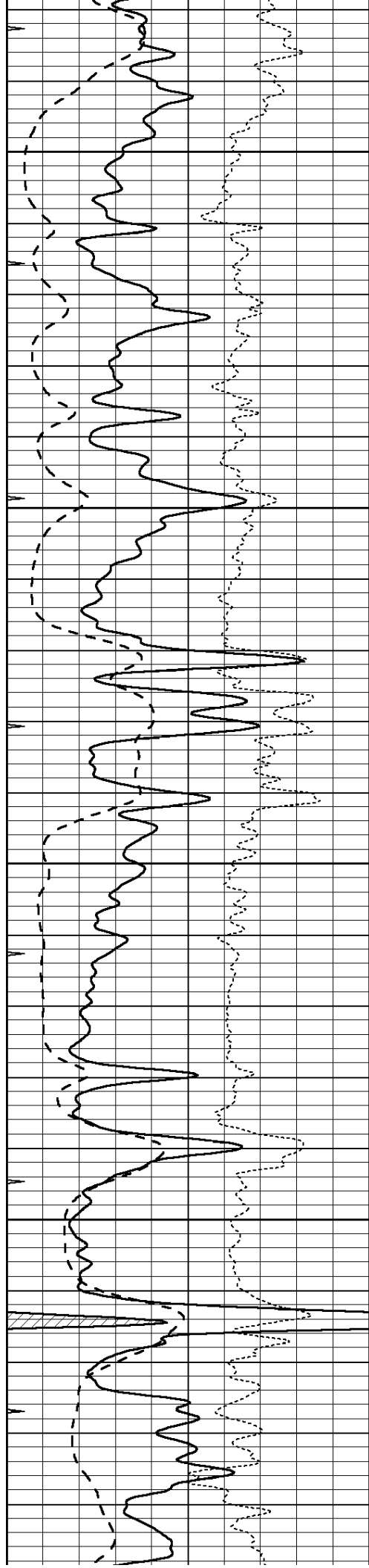
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3650

3700



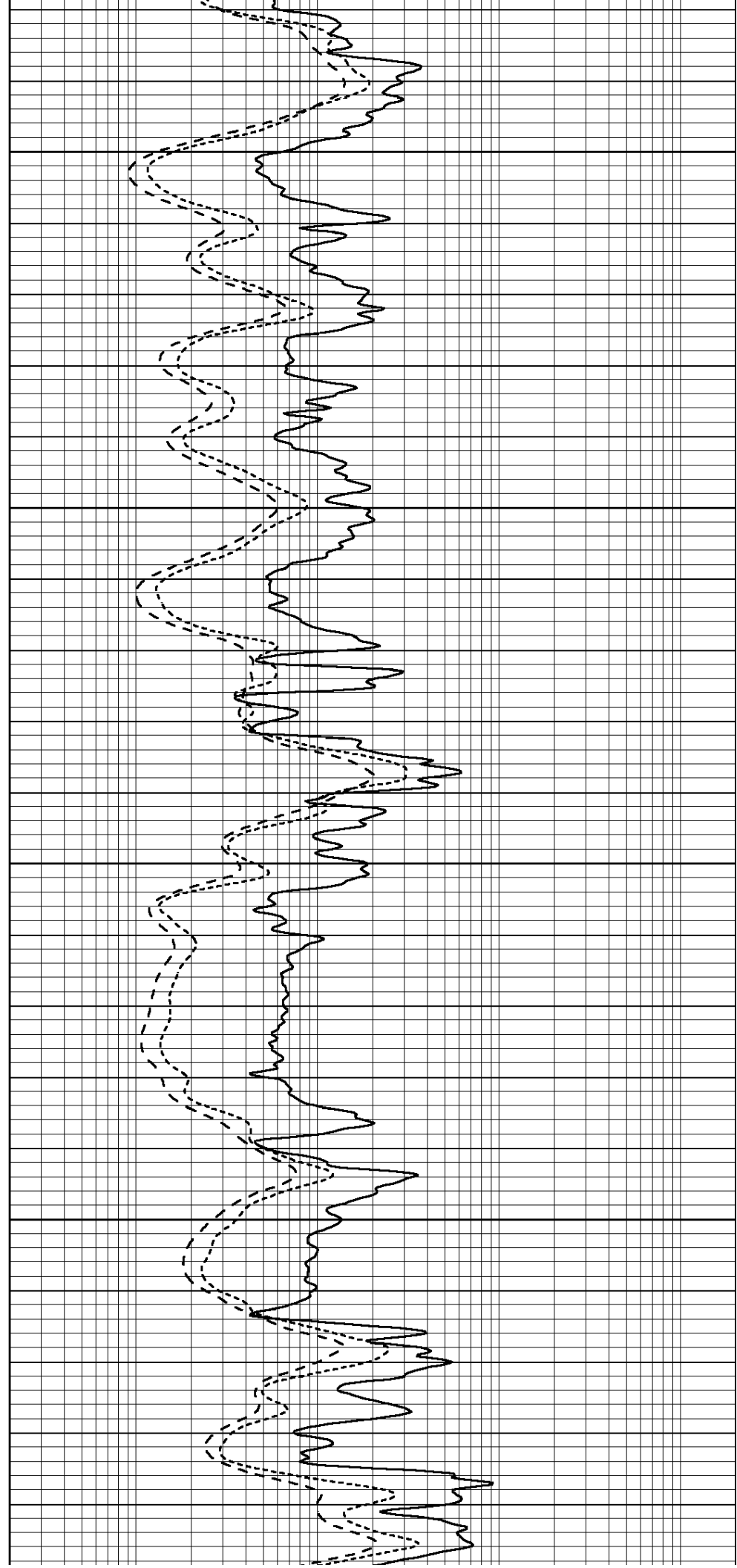


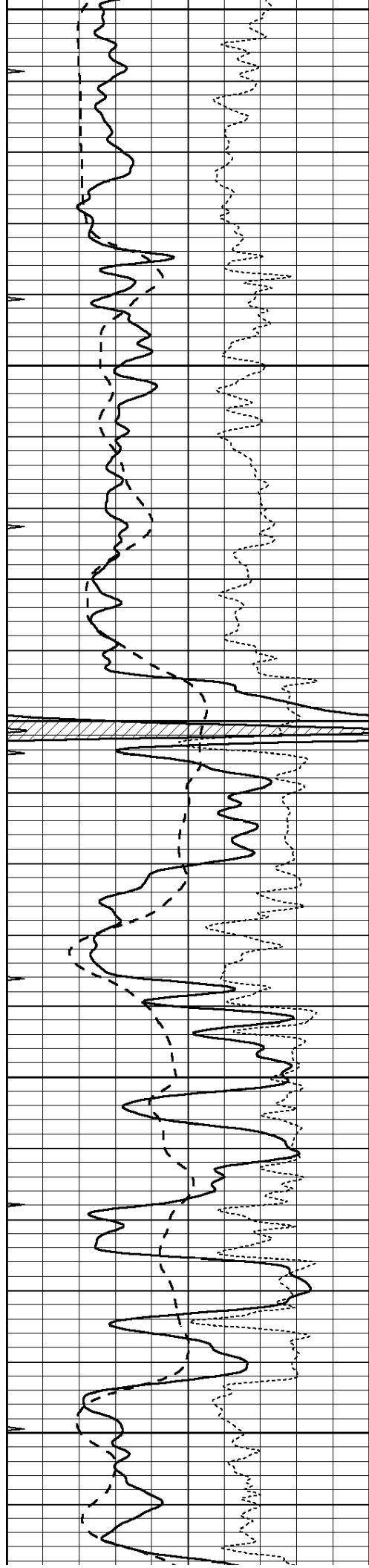
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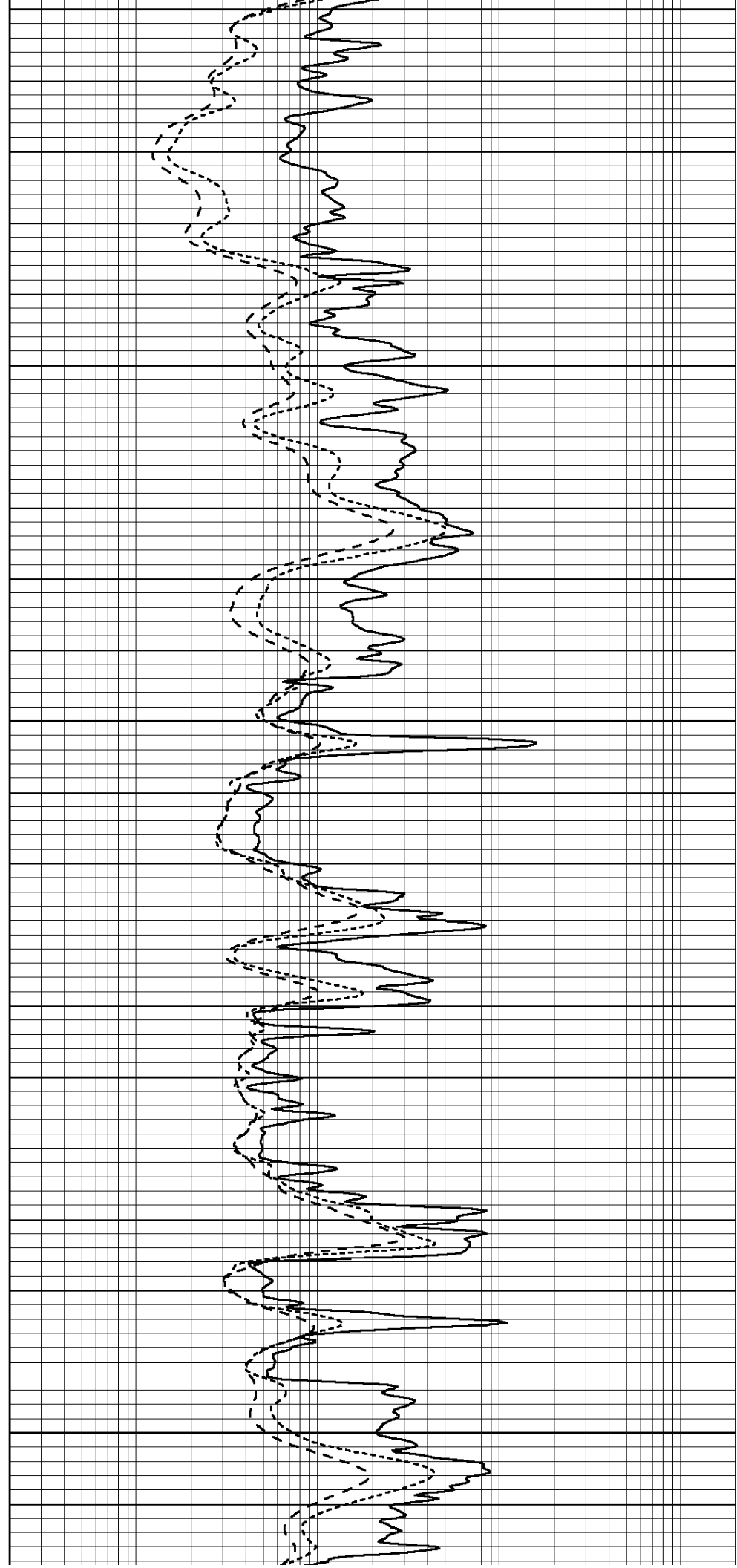
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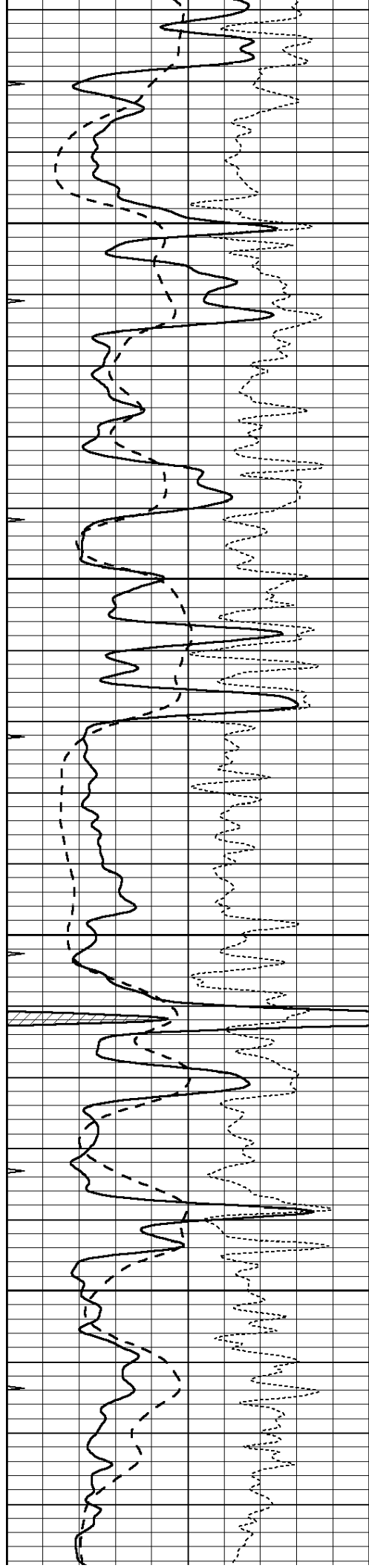
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4150



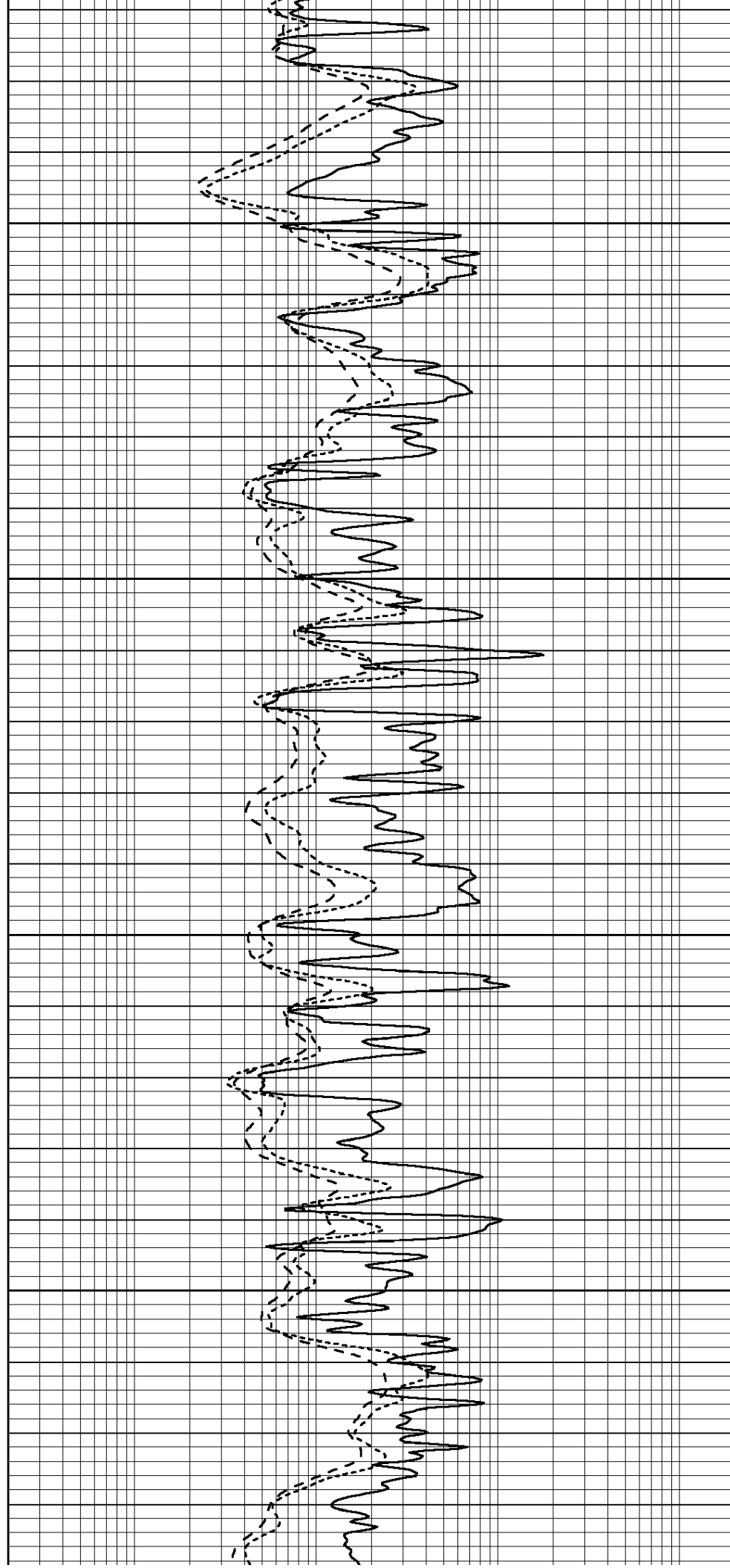


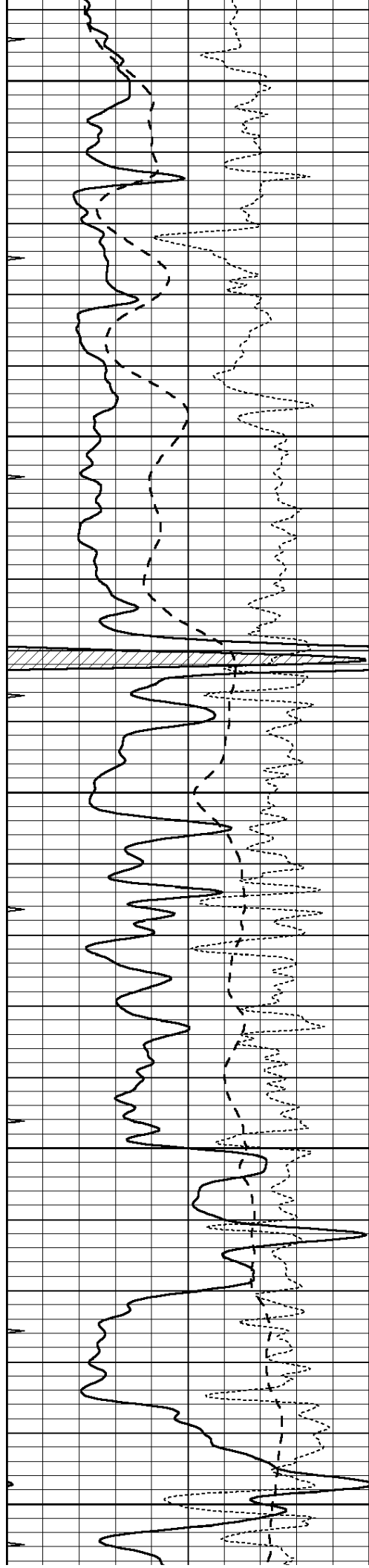
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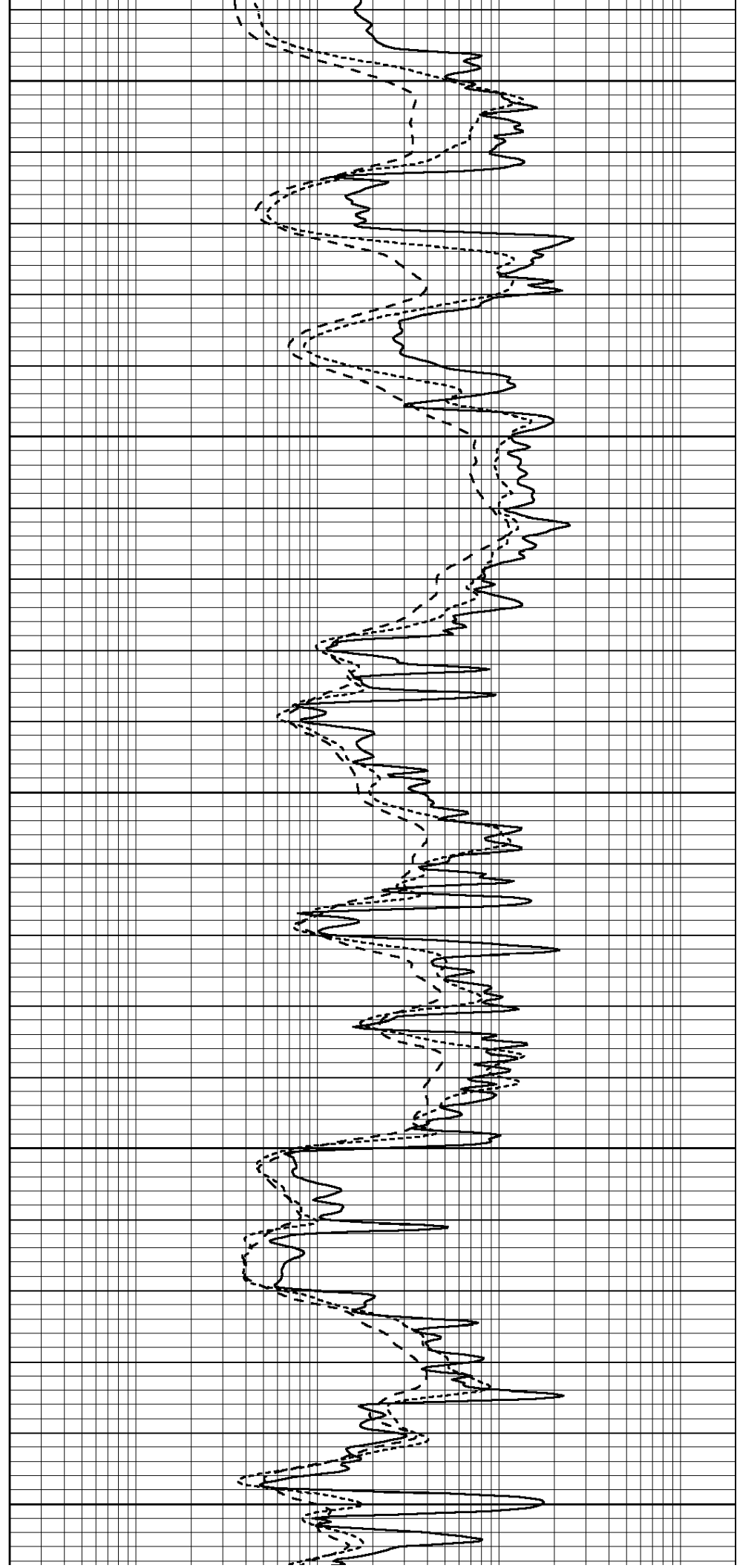
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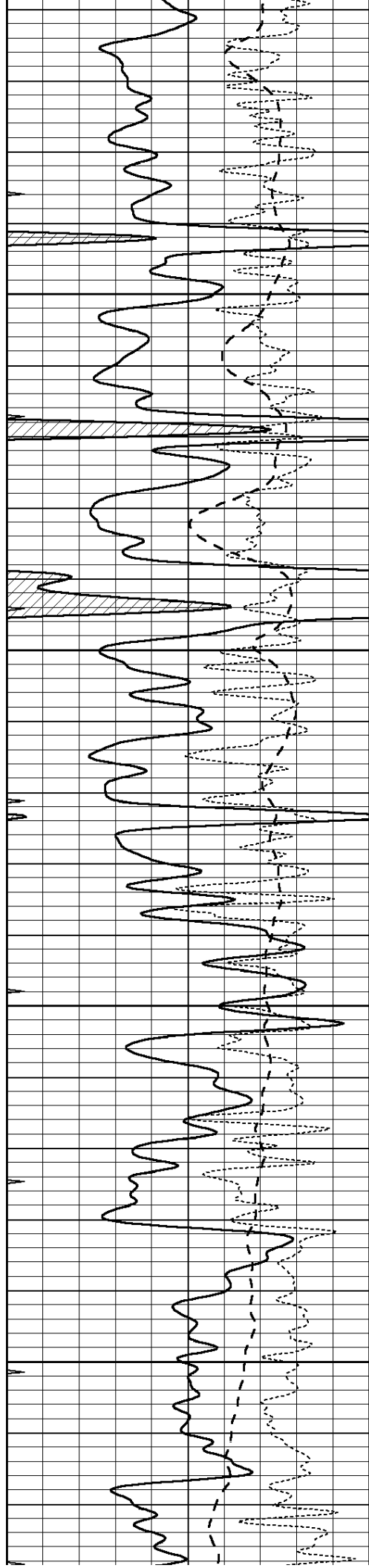
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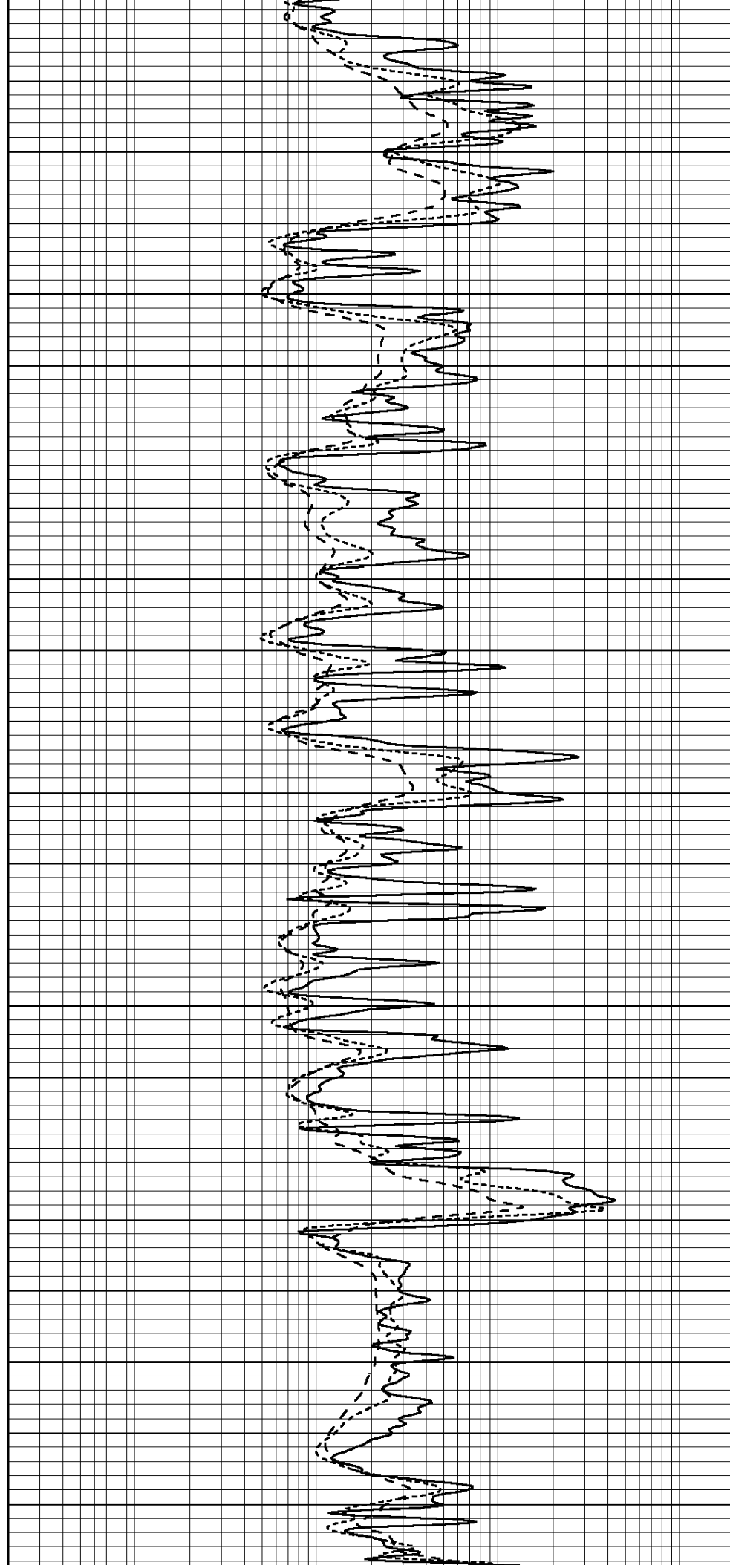


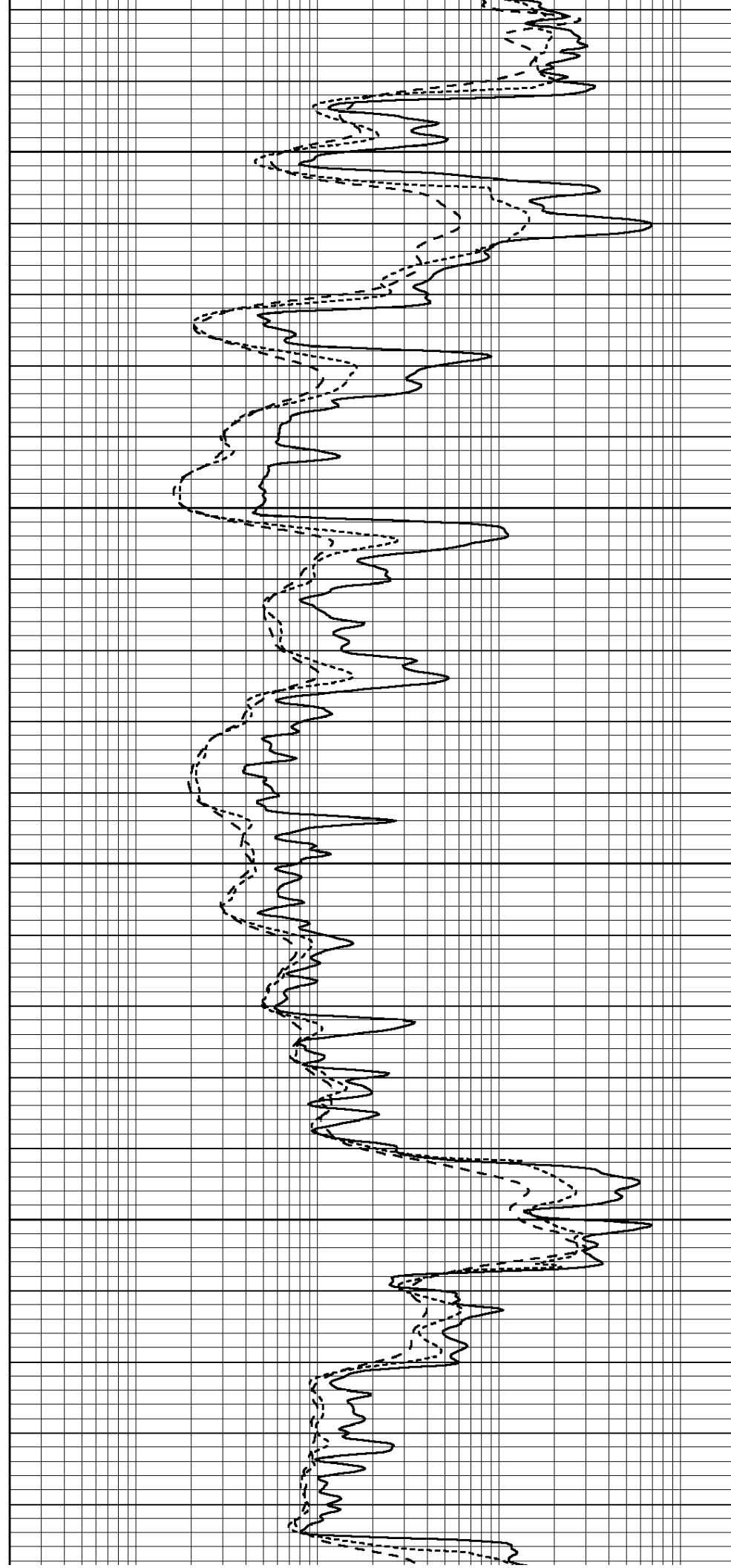
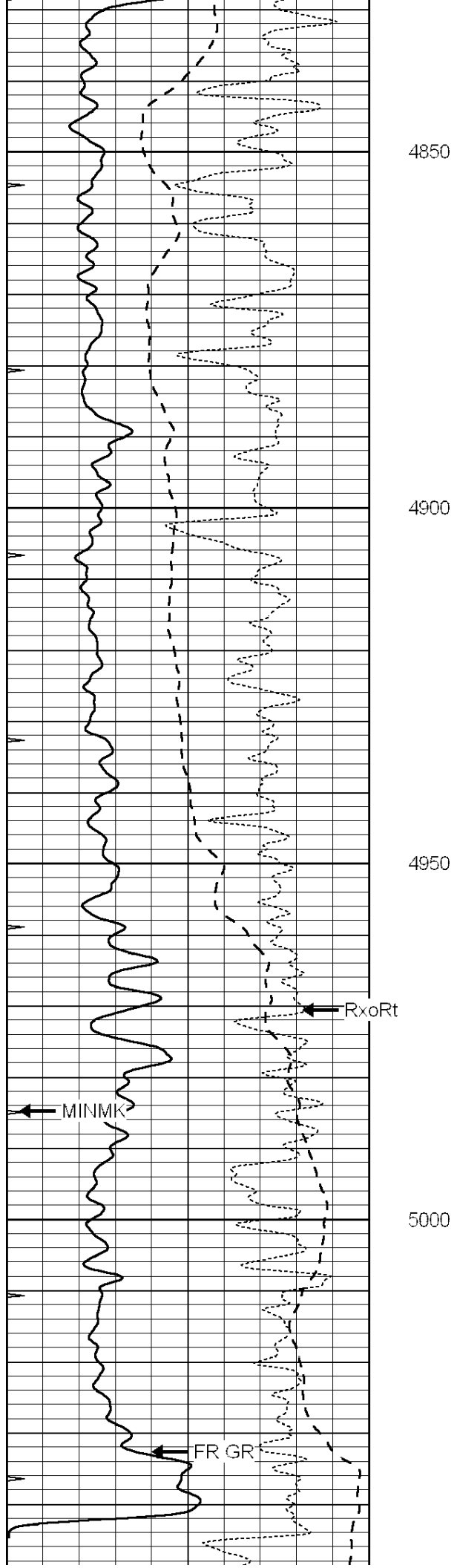
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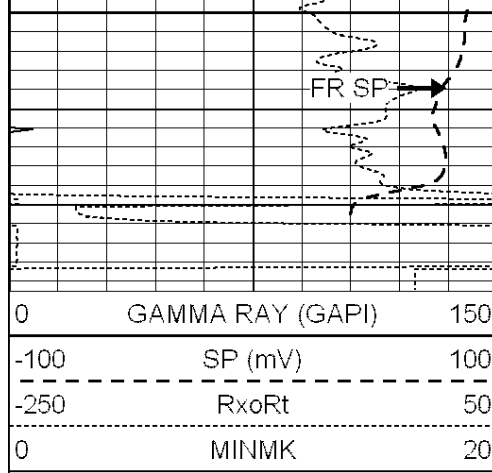
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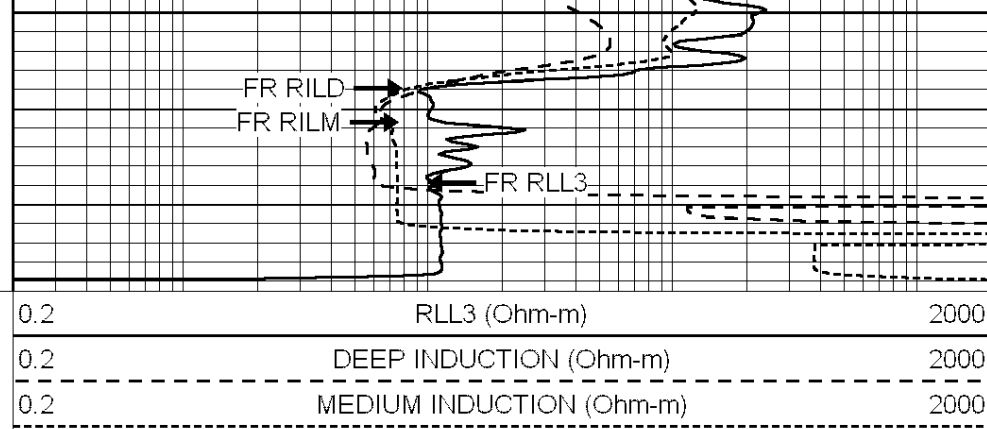
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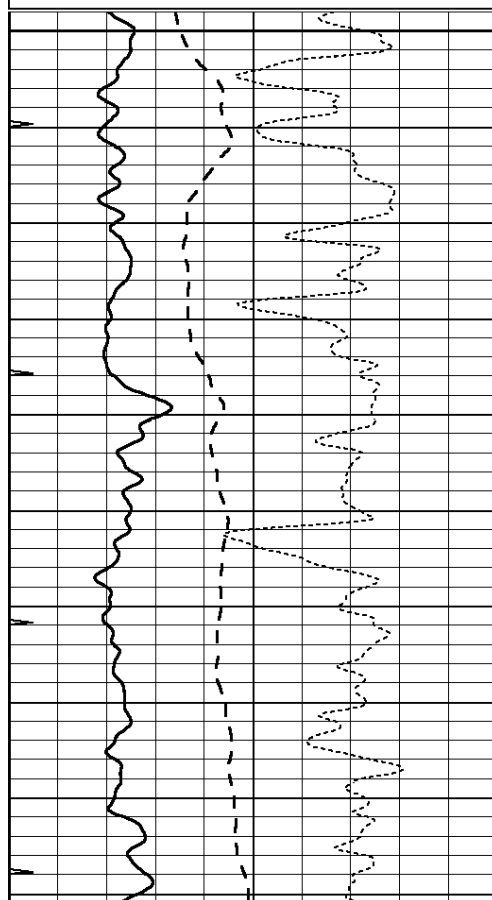
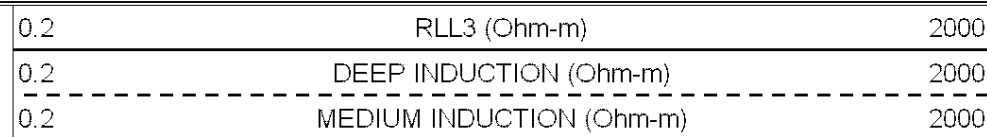
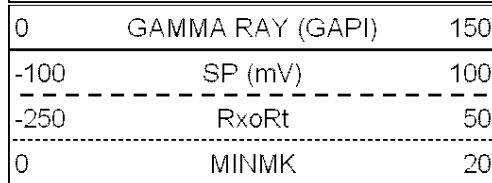
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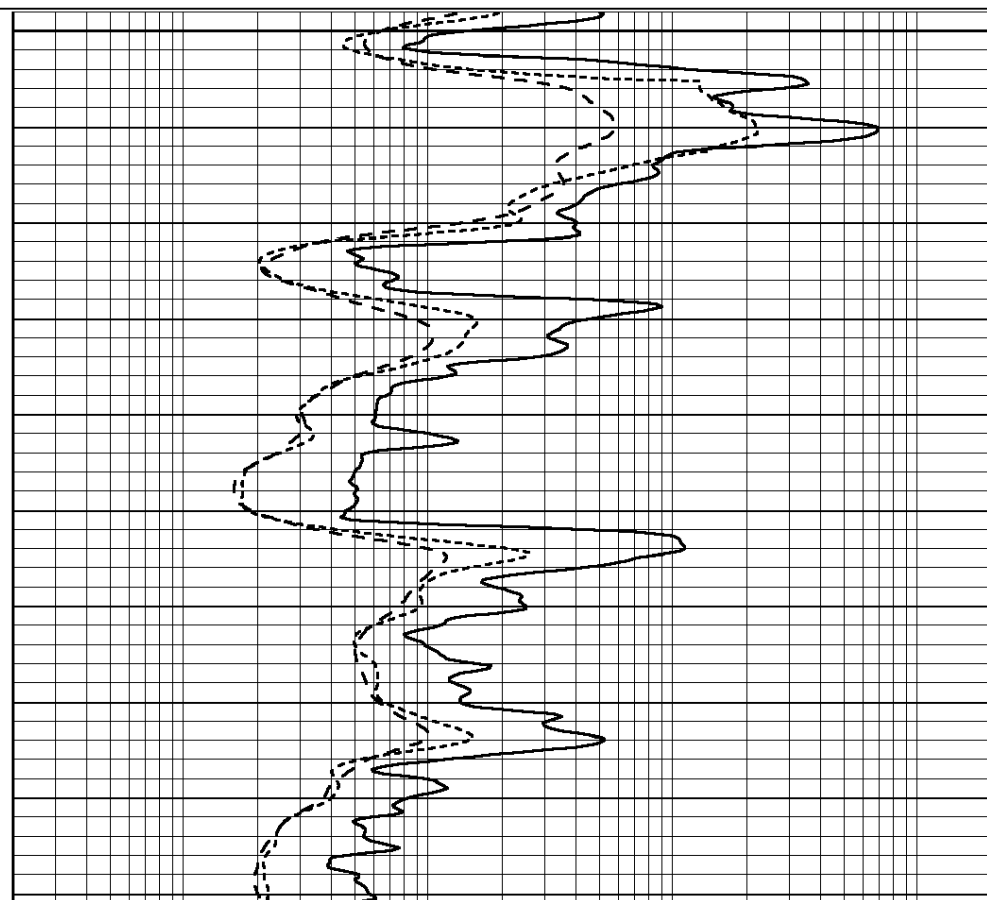
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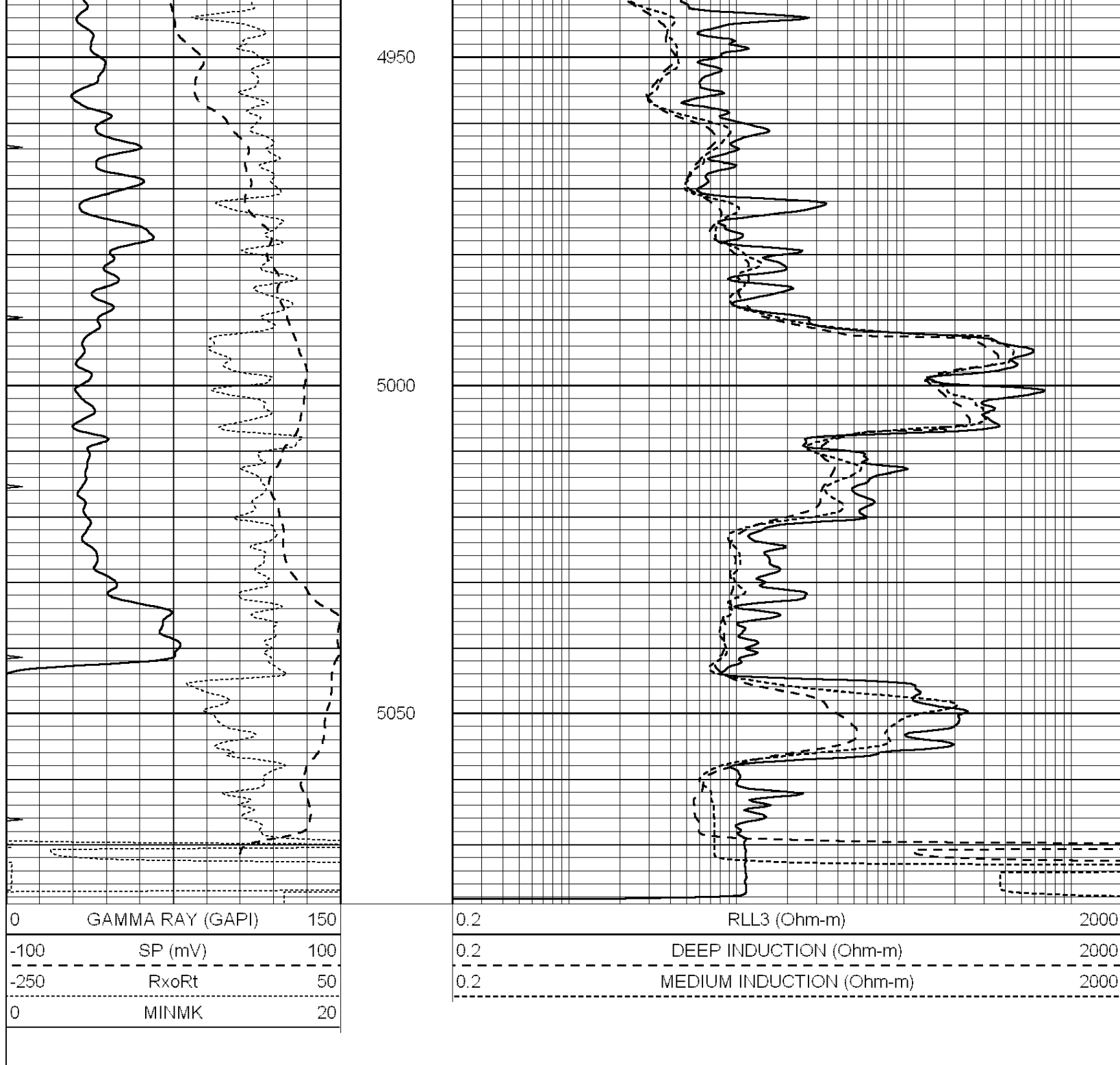
REPEAT SECTION

Database File: 009674ddn.db
Dataset Pathname: pass2.A
Presentation Format: dil
Dataset Creation: Sun Sep 30 23:18:11 2012
Charted by: Depth in Feet scaled 1:240



4850
4900





Calibration Report								
Database File:		009674ddn.db						
Dataset Pathname:		pass3.1A						
Dataset Creation:		Sun Sep 30 23:25:54 2012						
Dual Induction Calibration Report								
Serial-Model:		DIL5-GEAR						
Performed:		Sun Sep 30 21:12:49 2012						
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	490.000	-13.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	520.000	-12.000

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
Compensated Density Calibration Report								
Serial-Model:					GEAR1-GEARHART			
Source / Verifier:					147 / 147			
Master Calibration Performed:					Mon Sep 17 09:35:35 2012			
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		1205.67		613.10	cps	
Aluminum	2.580	g/cc		277.64		430.46	cps	
Spine Angle = 76.46			Density/Spine Ratio = 0.576					
	Size			Reading				
Small Ring	9.50	in		4.69	V			
Large Ring	14.00	in		6.52	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:			Sat Sep 29 23:38:36 2012					
Calibrator Value:			1.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			1.0	cps				
Sensitivity:			0.7500	GAPI/cps				