



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#1 SIMON 13 CD		
Field			
County	FORD	State	KANSAS
Location:	API # : 15-057-20803-0000		Other Services
	982' FSL & 2240' FEL NW - SW - SE		CDL/CNL
	SEC 13	TWP 27S RGE 24W	Elevation
Permanent Datum	GROUND LEVEL		K.B. 2458
Log Measured From	KELLY BUSHING 11' A.G.L.		D.F. 2456
Drilling Measured From	KELLY BUSHING		G.L. 2447
Date	5-16-12		
Run Number	ONE		
Depth Driller	5110		
Depth Logger	5107		
Bottom Logged Interval	5105		
Top Log Interval	0		
Casing Driller	352		
Casing Logger	350		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 55	CHLORIDES 5,500	
pH / Fluid Loss	9.5 / 9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.50 @ 84F		
Rinf @ Meas. Temp	0.38 @ 84F		
Rinc @ Meas. Temp	0.60 @ 84F		
Source of Rinf / Rinc	MEASURED		
Rim @ BHT	0.37 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	113F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	MIKE ENGELBRECHT		

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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
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: FORT DODGE, KS - 2 MILES SOUTHEAST ON HWY 400
2 MILES SOUTH ON RD 117 - EAST INTO

0 Gamma Ray (GAPI) 150

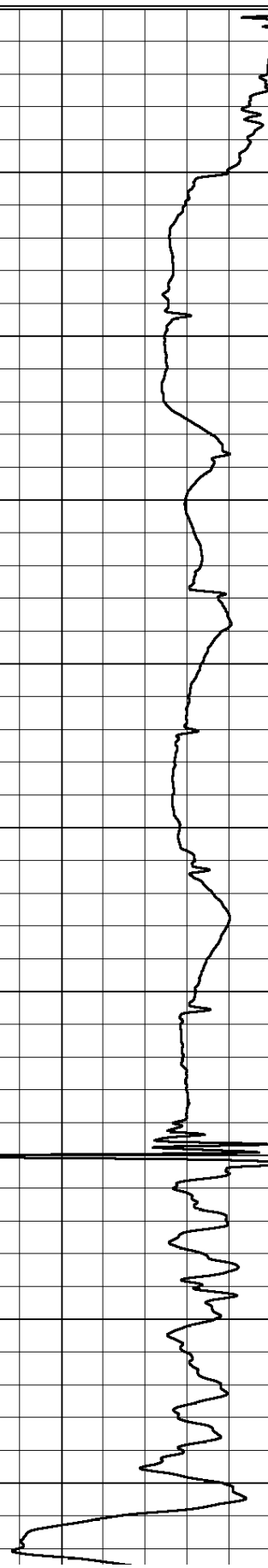
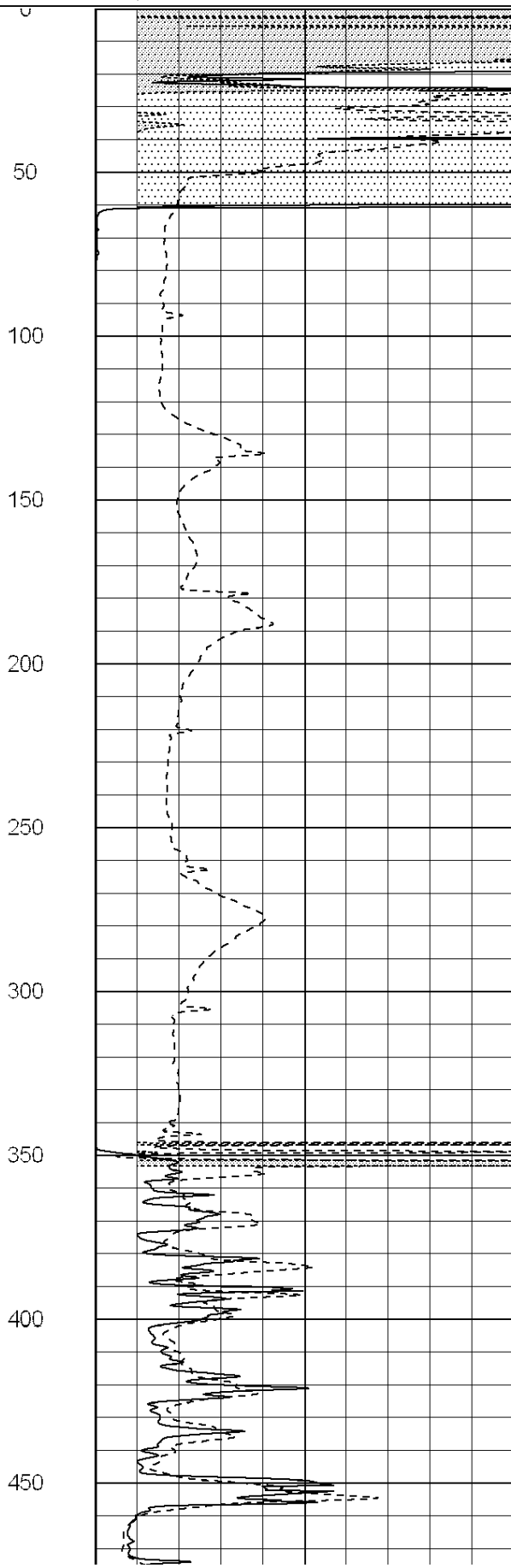
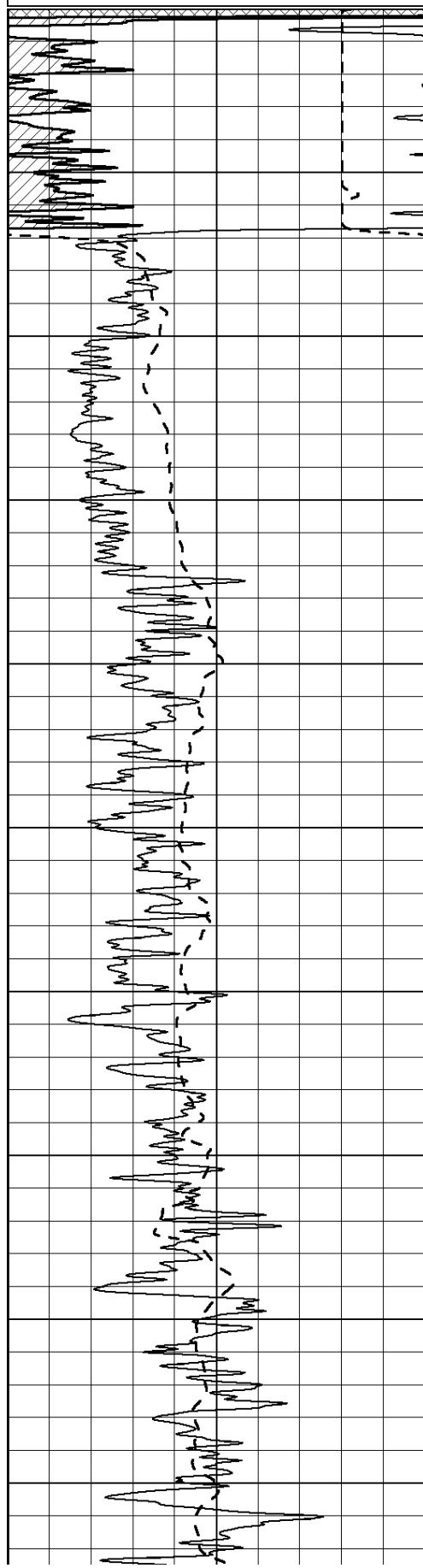
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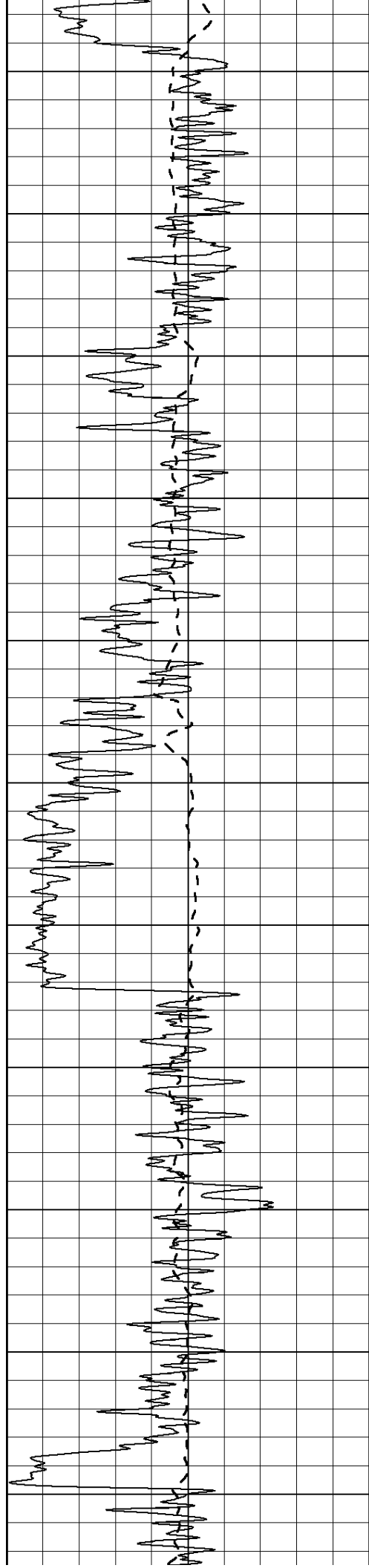
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1000 CILD (mmho/m) 0

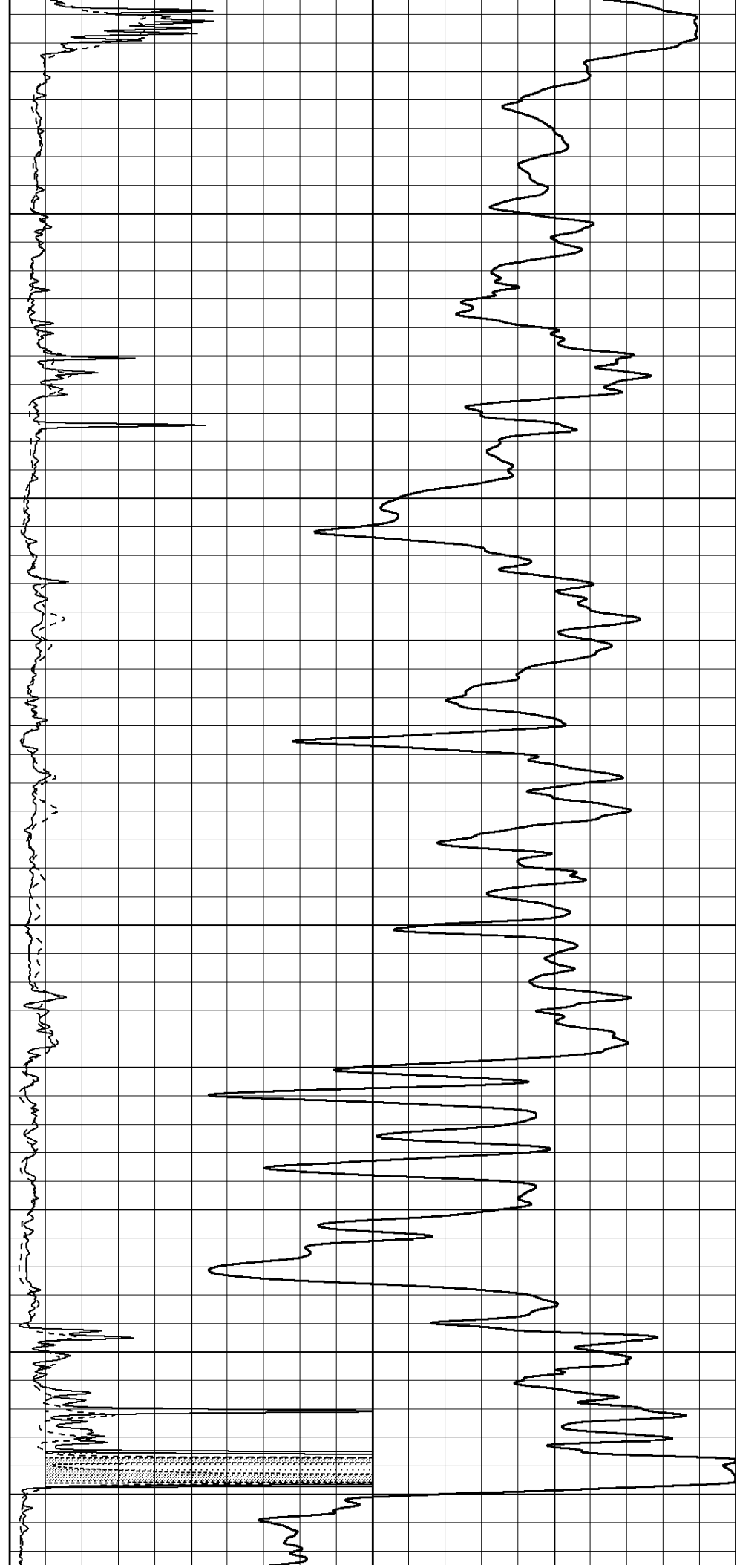
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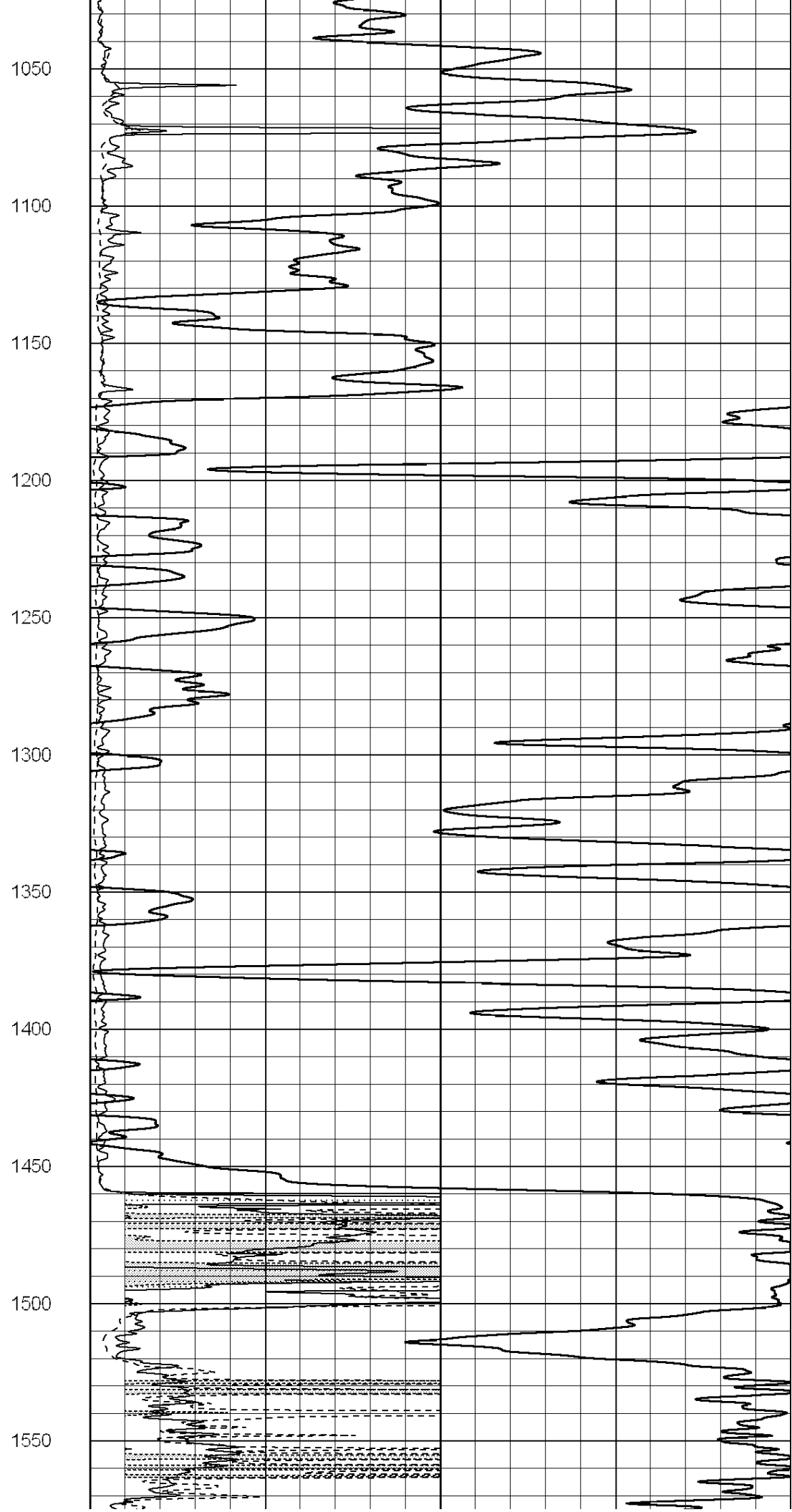
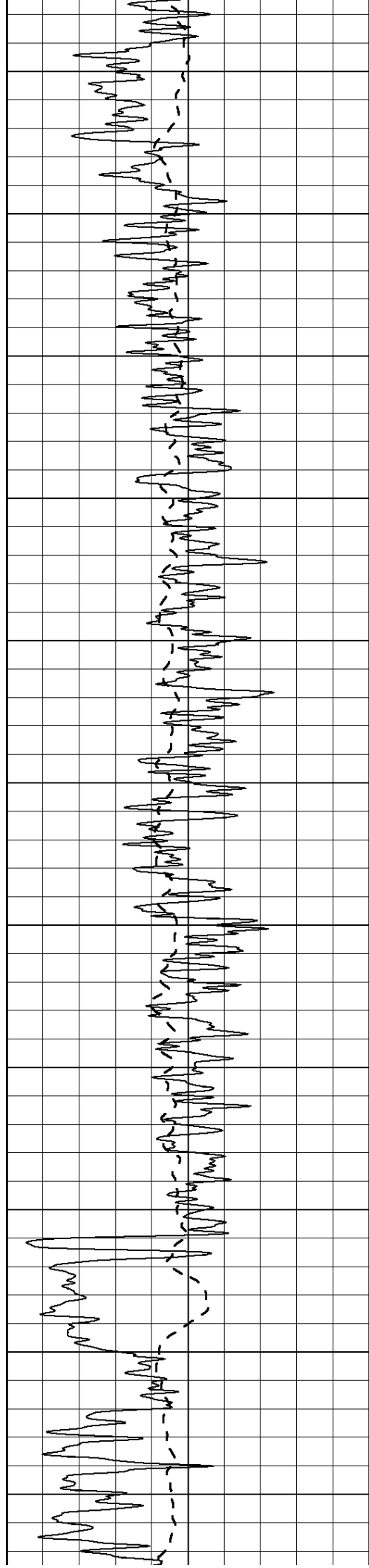
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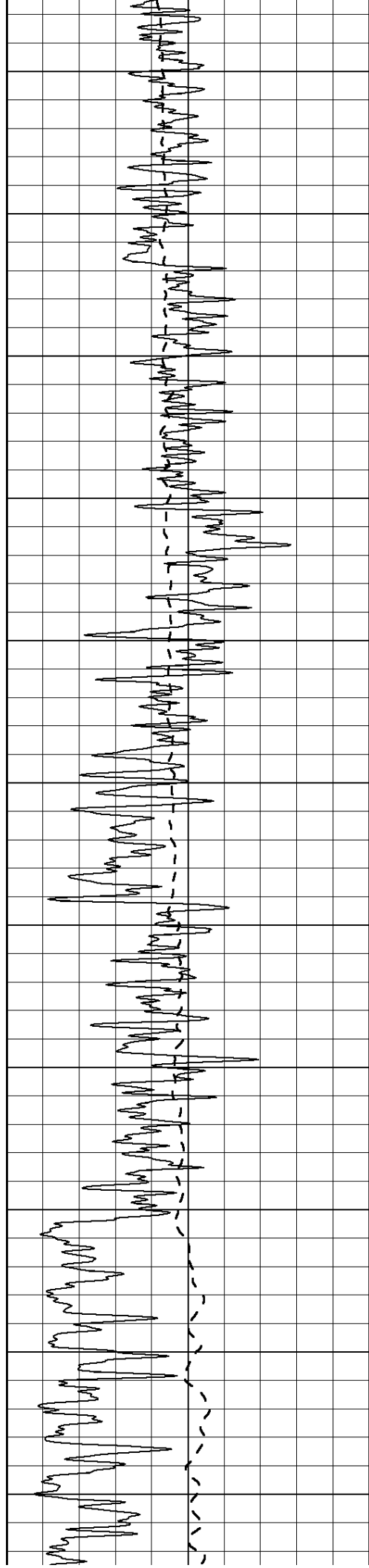




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1600

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1800

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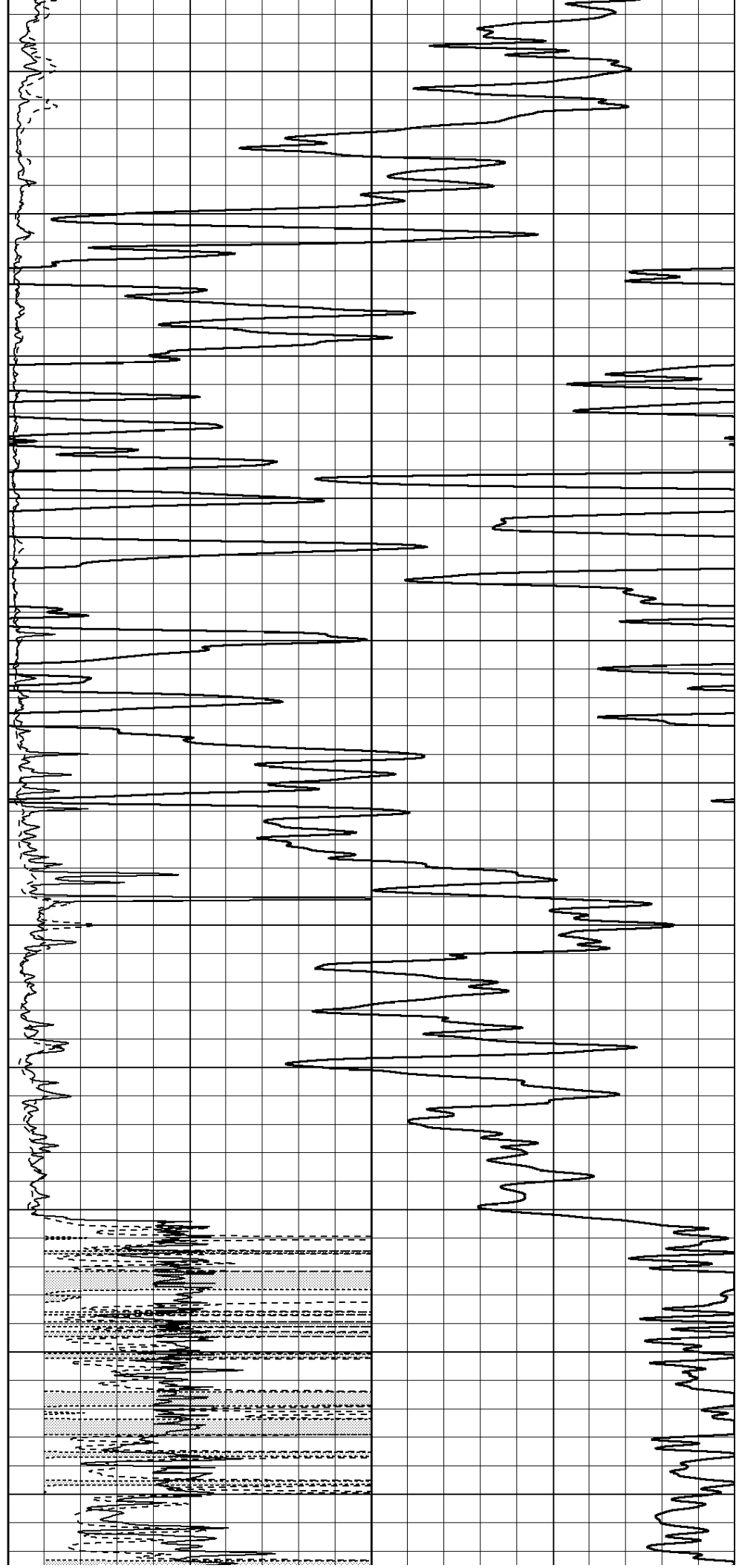
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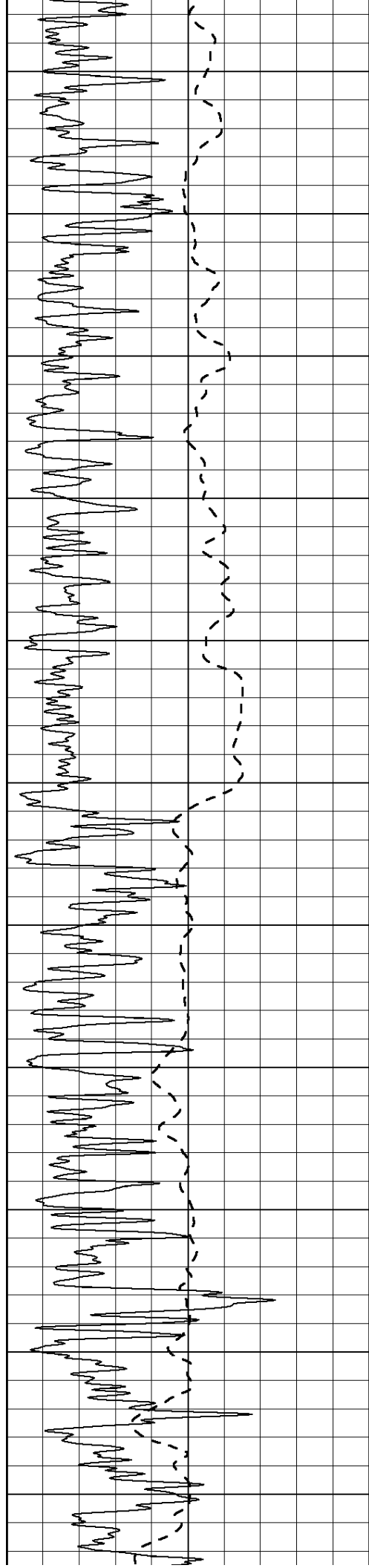
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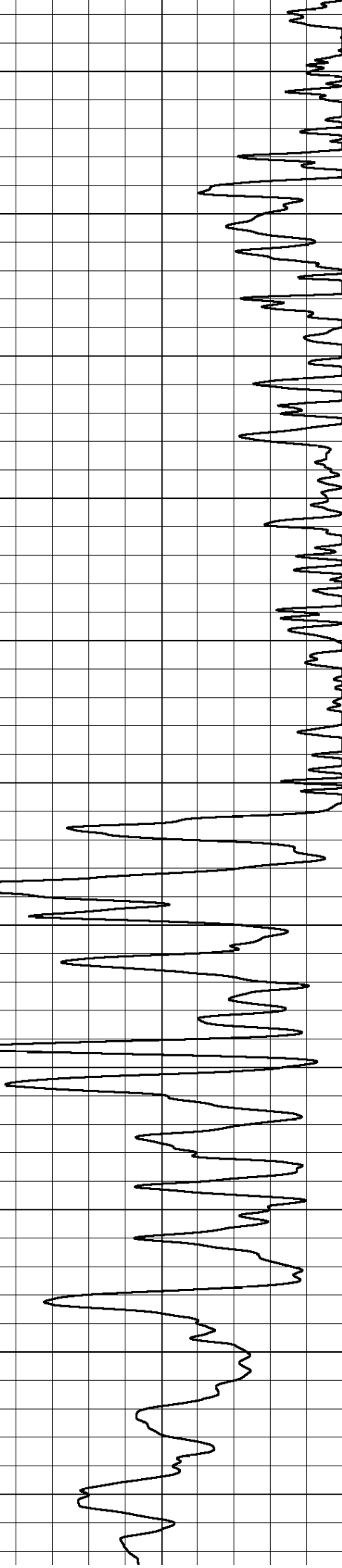
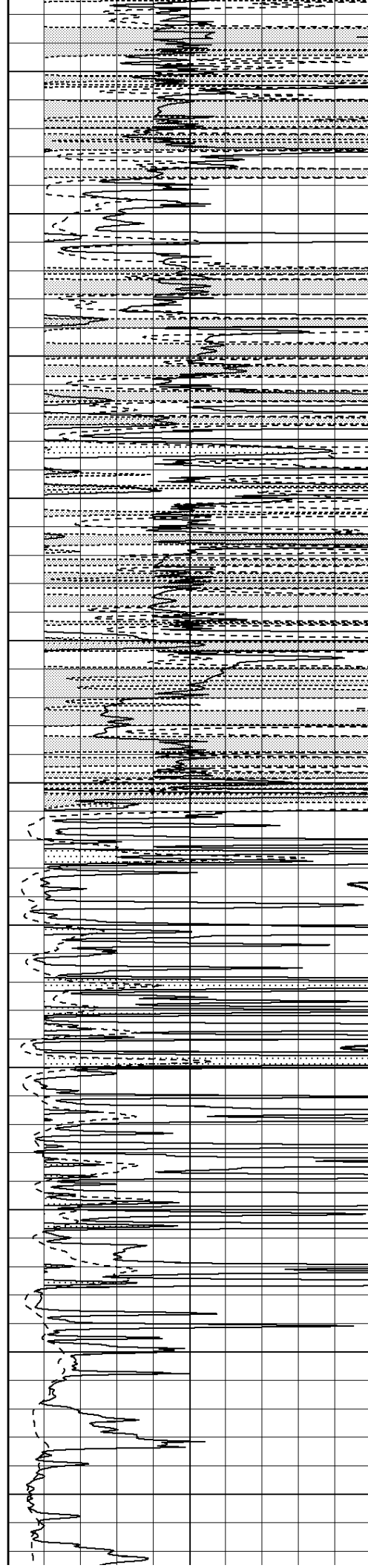
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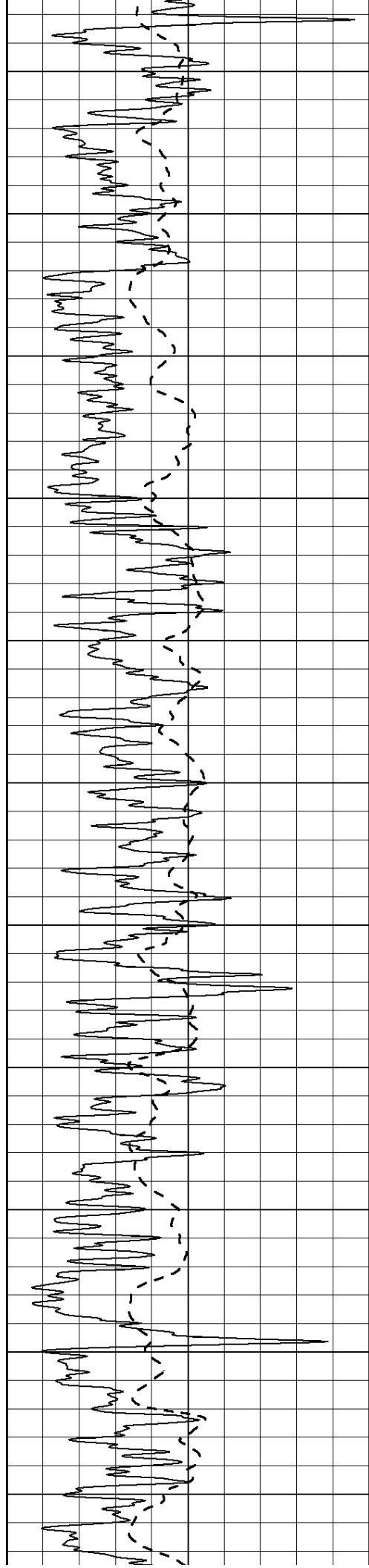
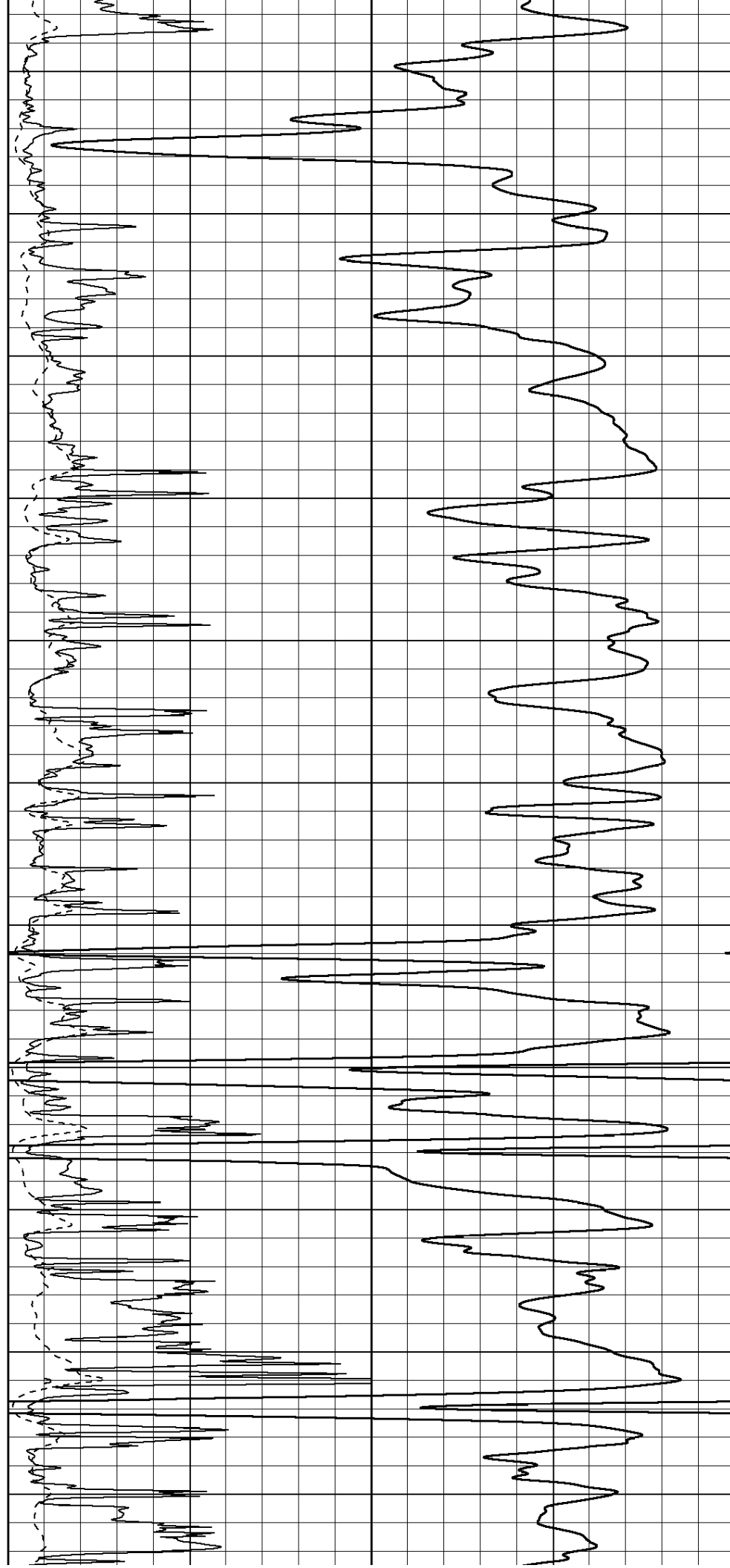
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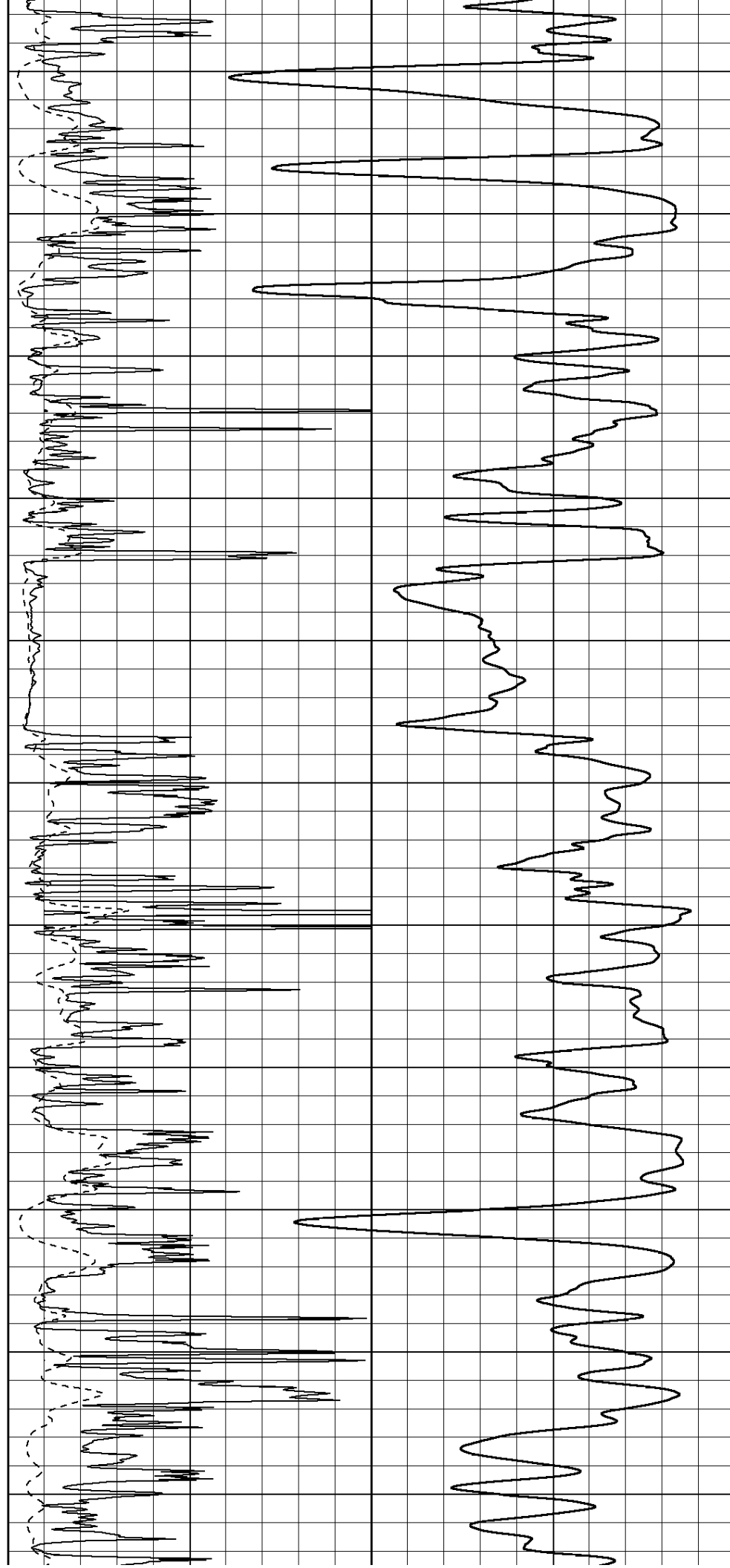
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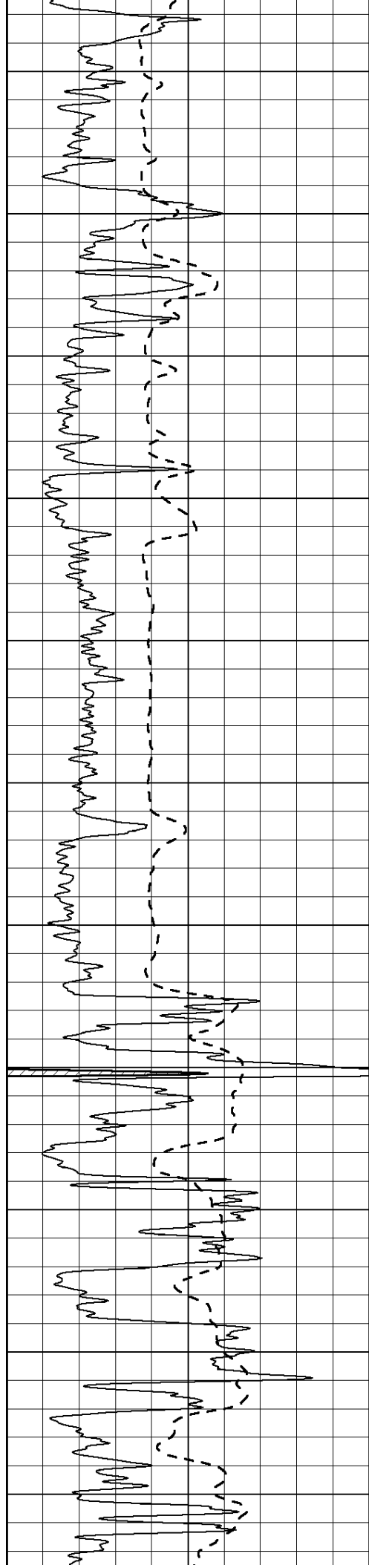
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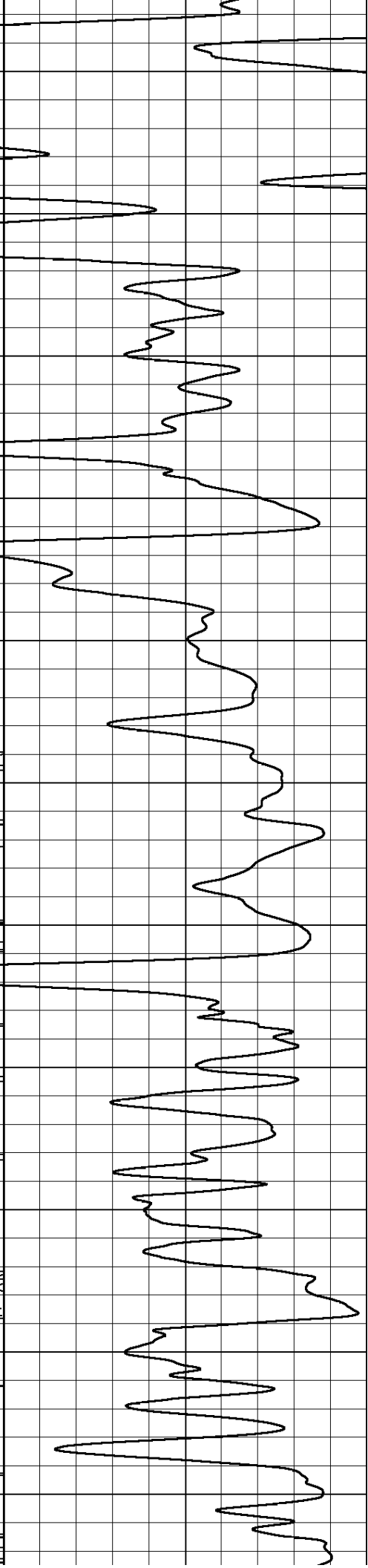
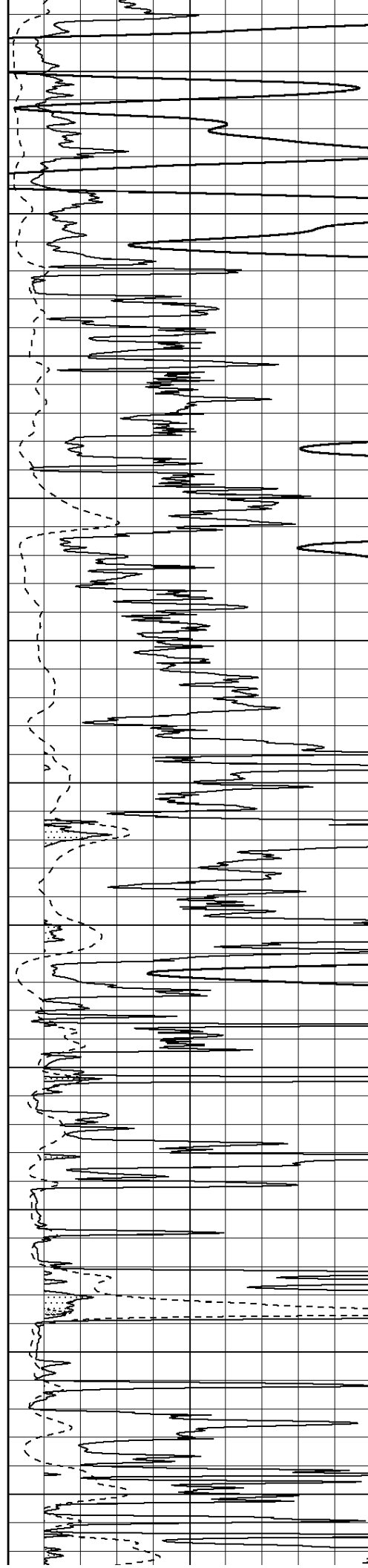
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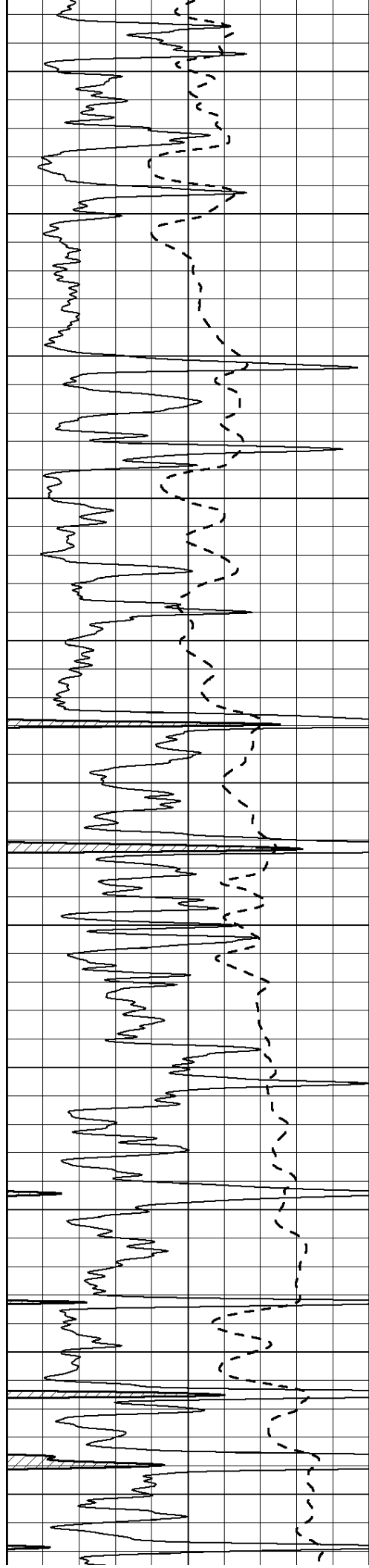
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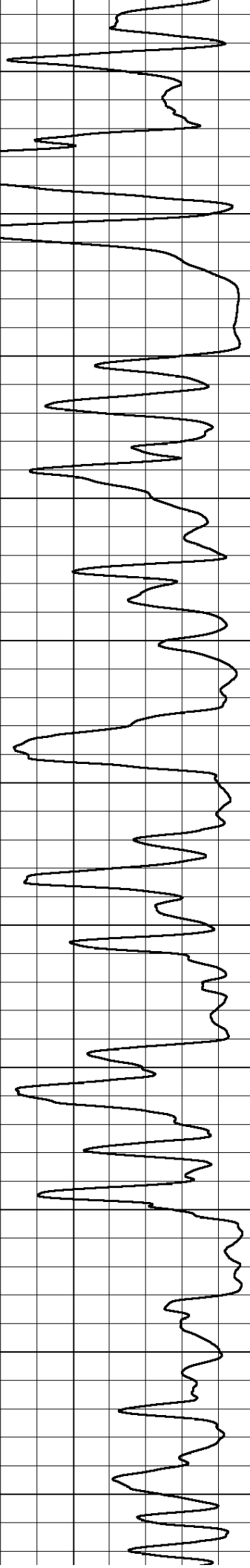
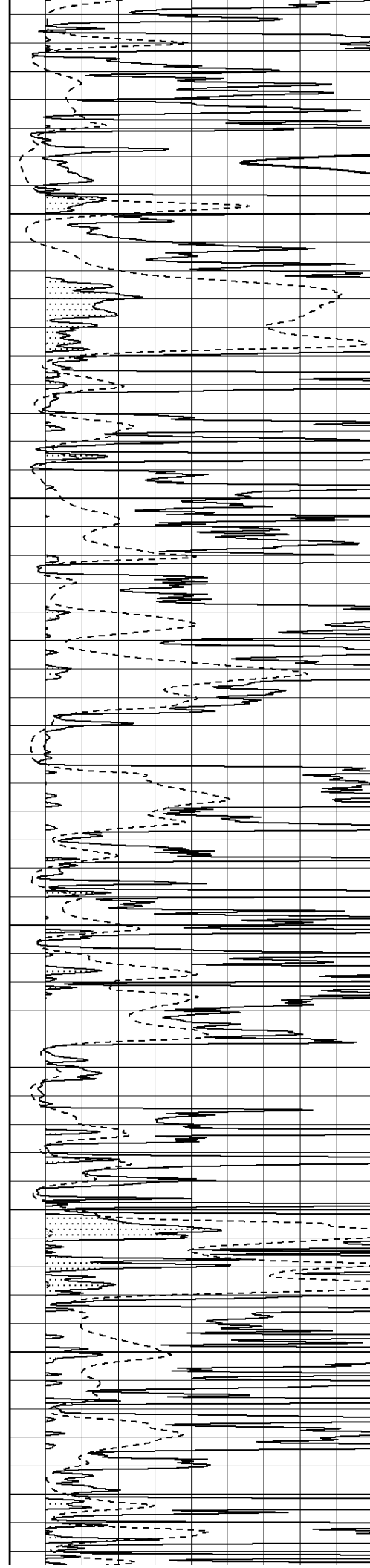
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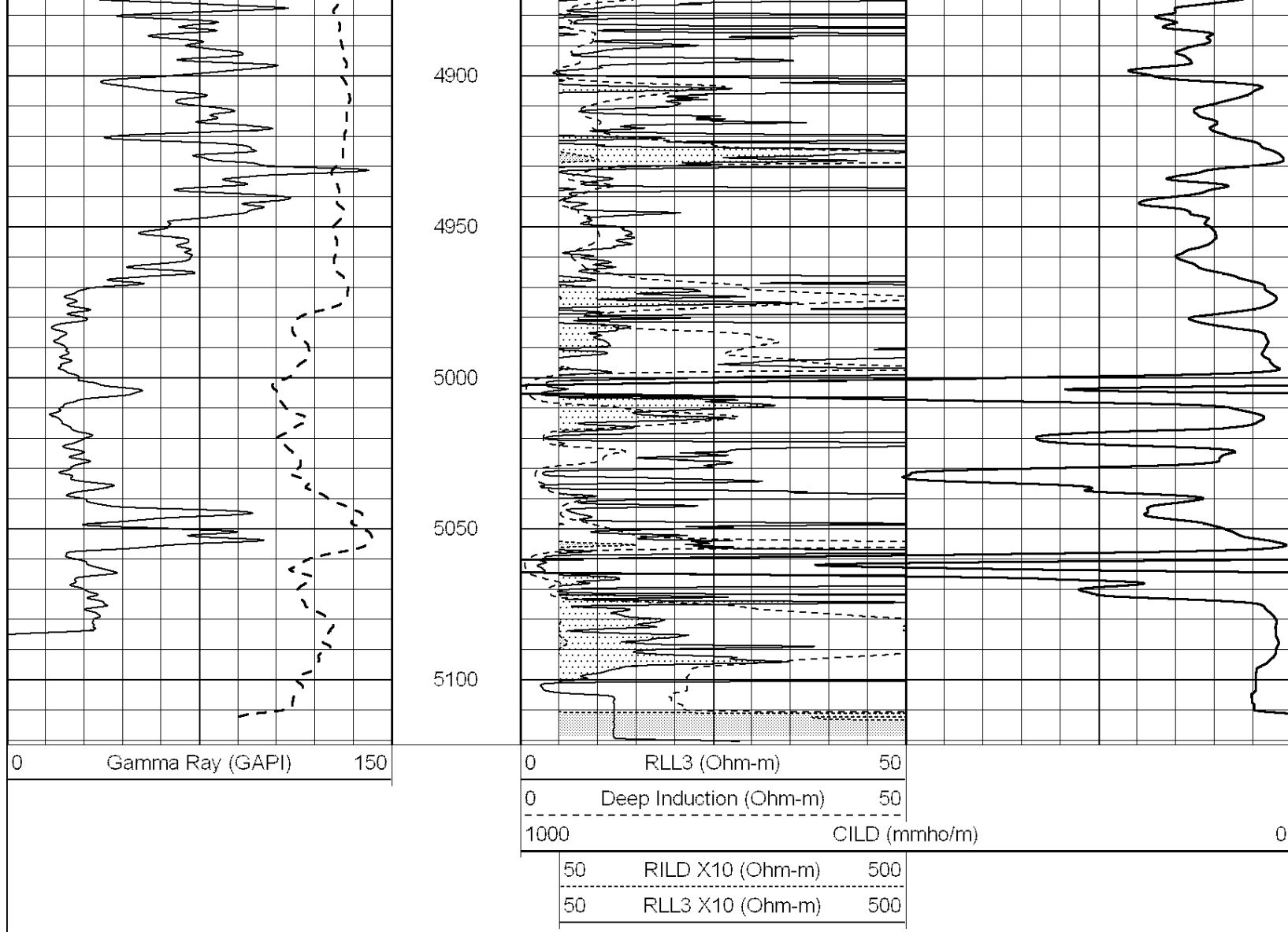
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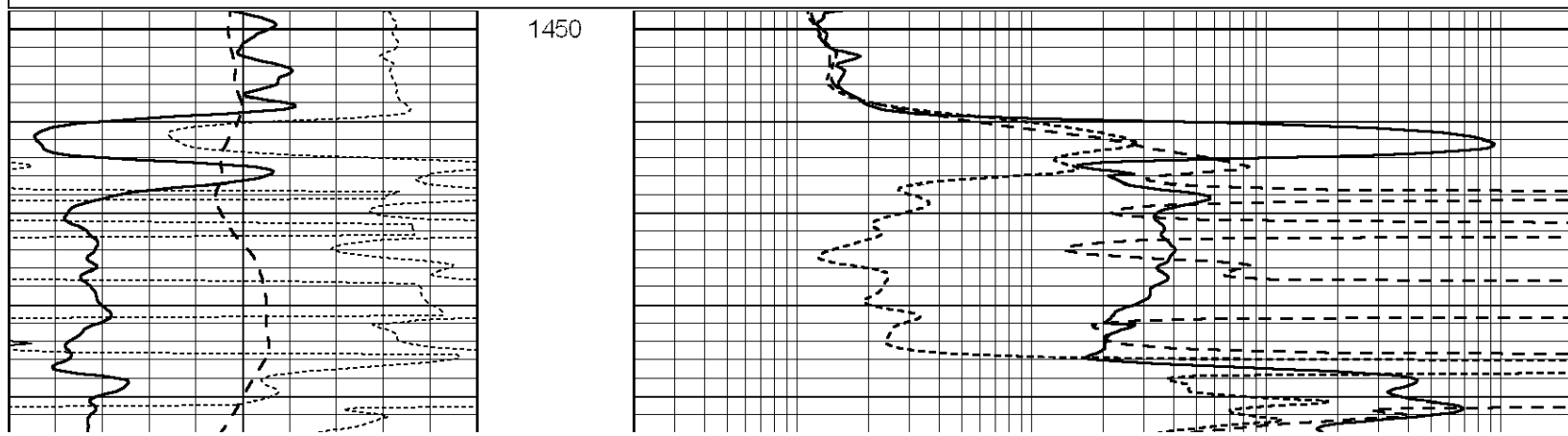
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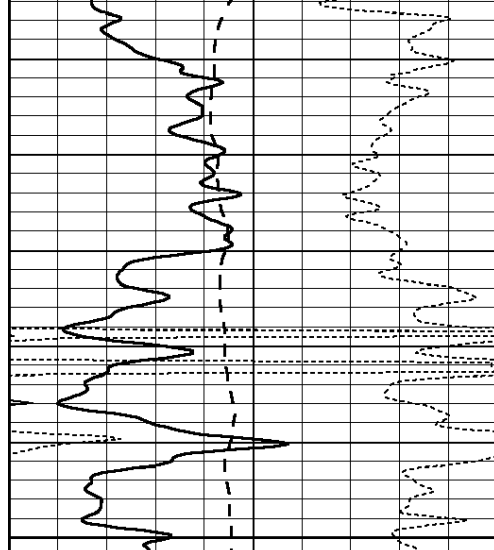




Database File: 009118ddn.db
 Dataset Pathname: pass3.5
 Presentation Format: dil
 Dataset Creation: Wed May 16 16:34:02 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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			

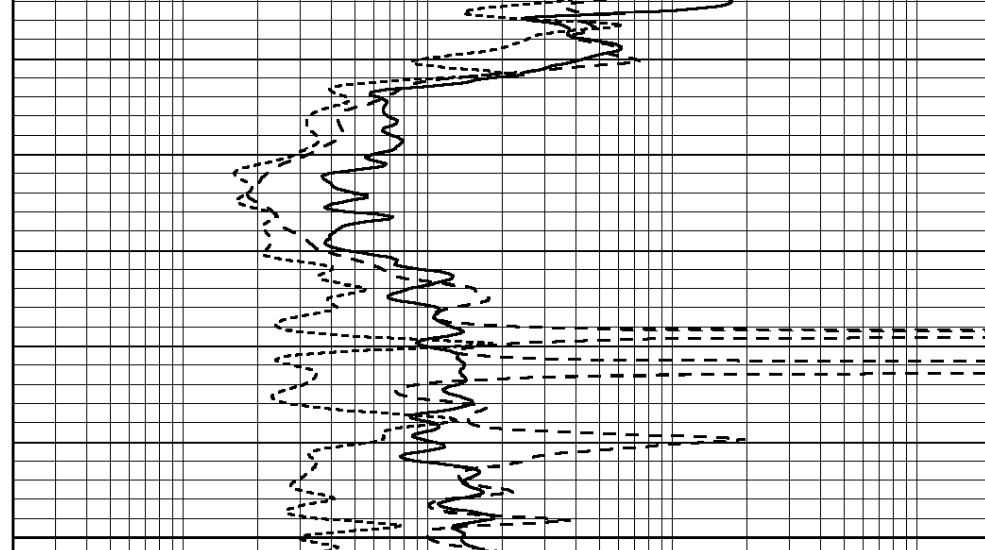




1500

1550

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

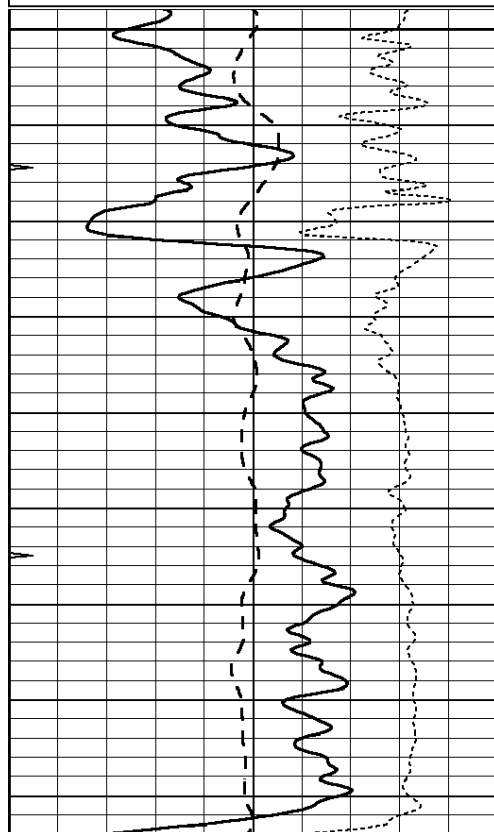


0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

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 Charted by: Depth in Feet scaled 1:240

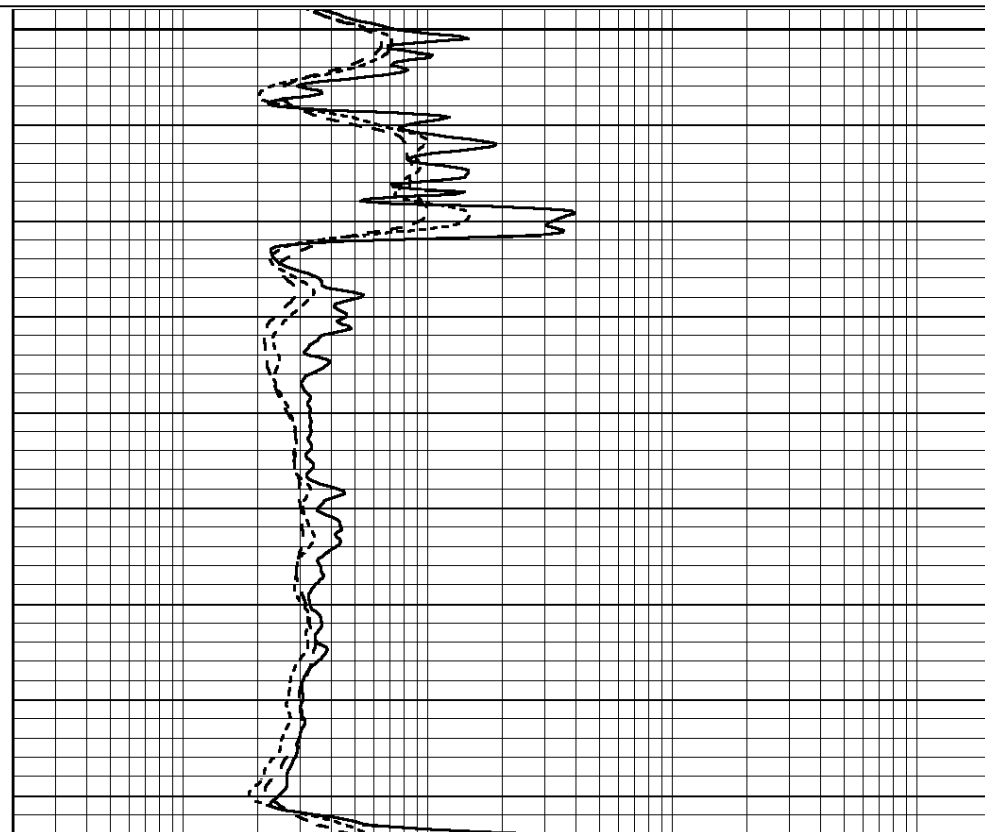
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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

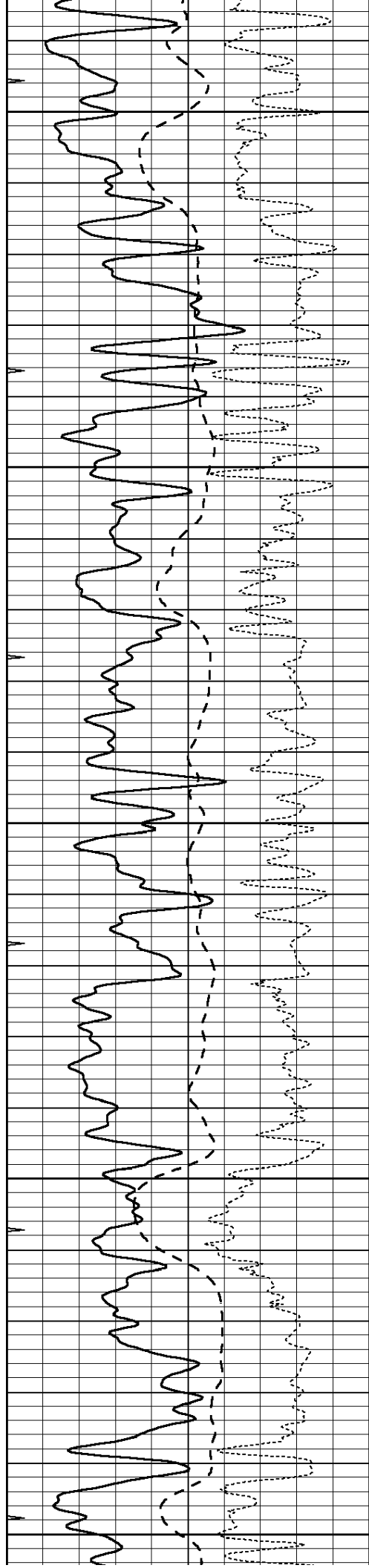
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0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



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3450





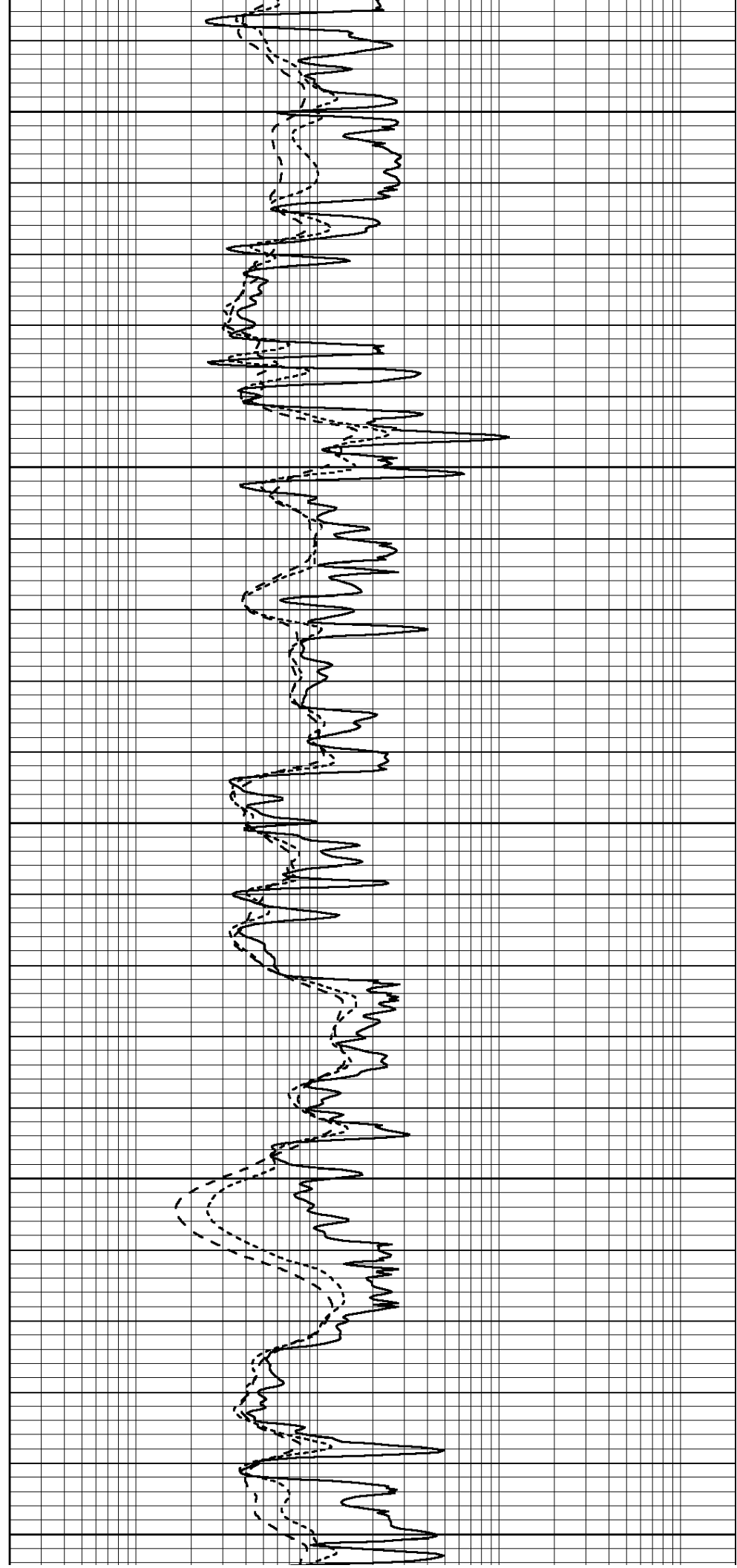
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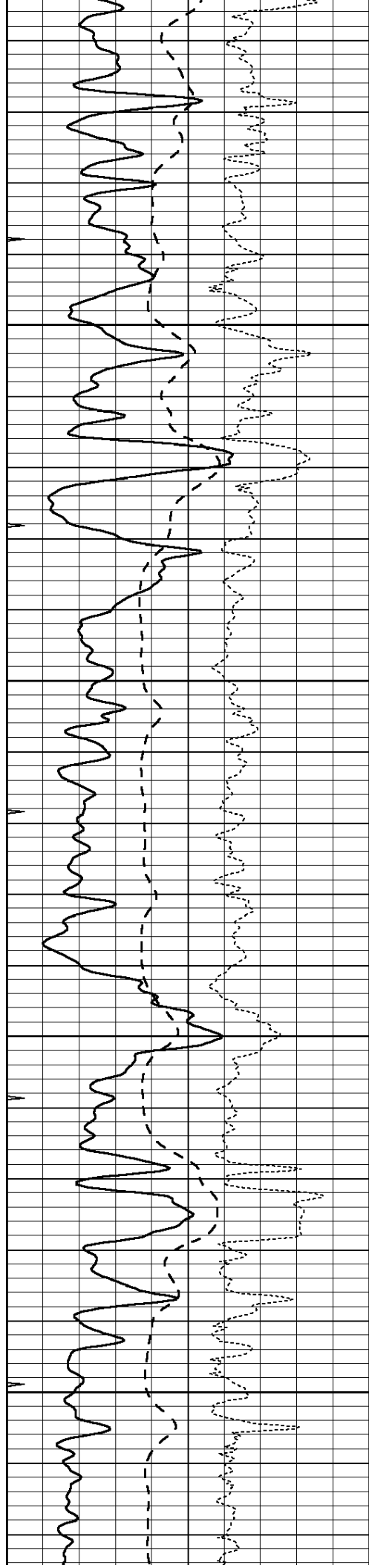
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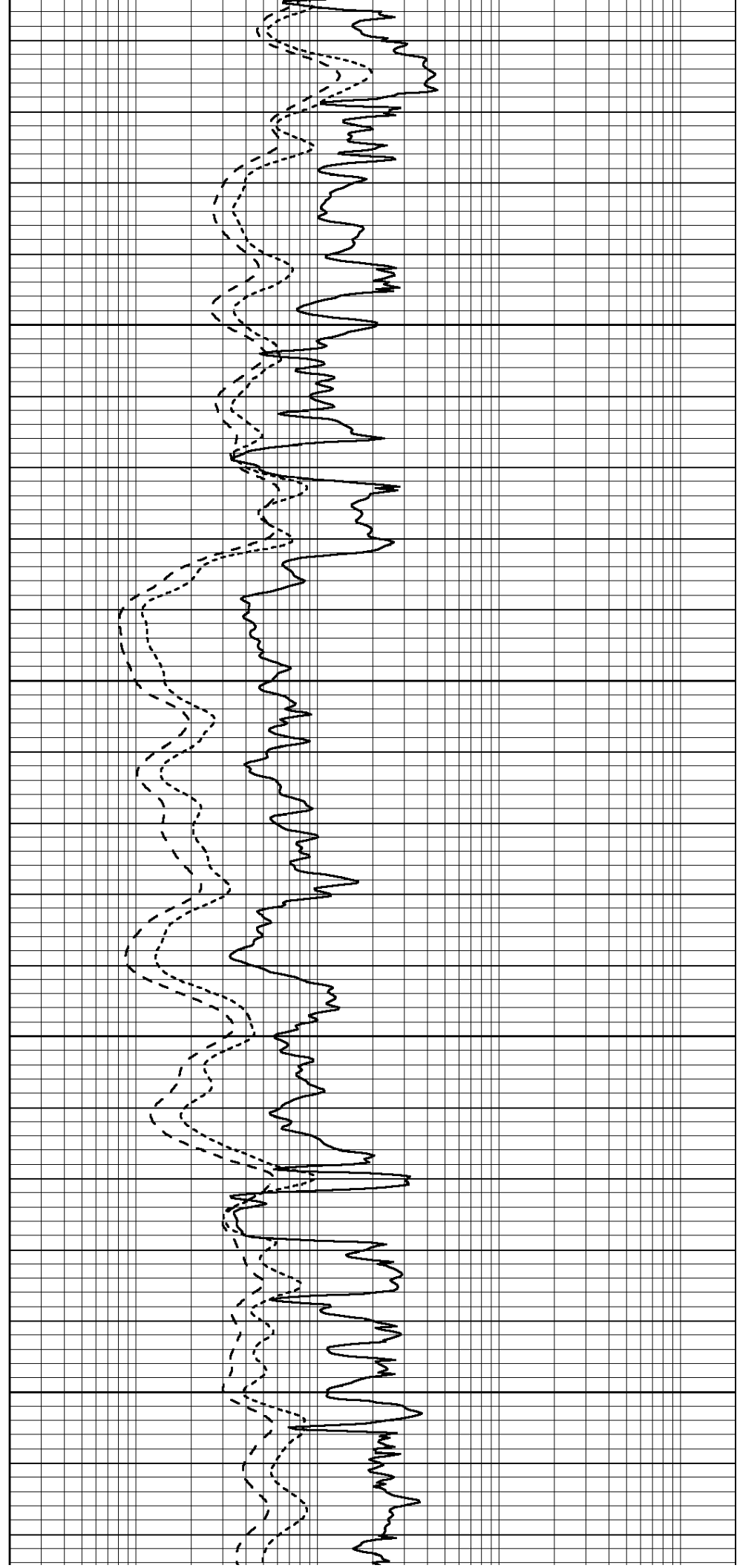


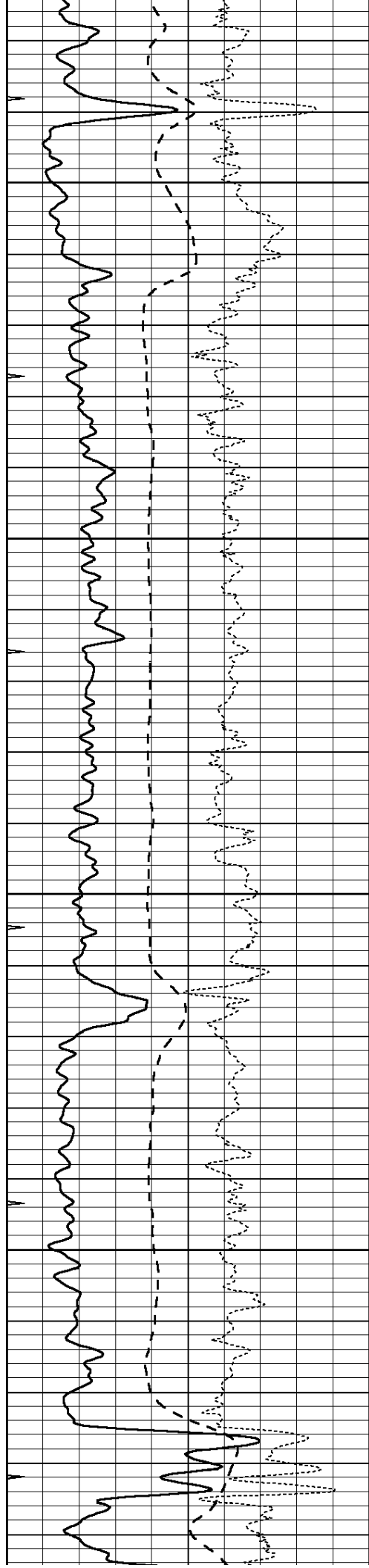
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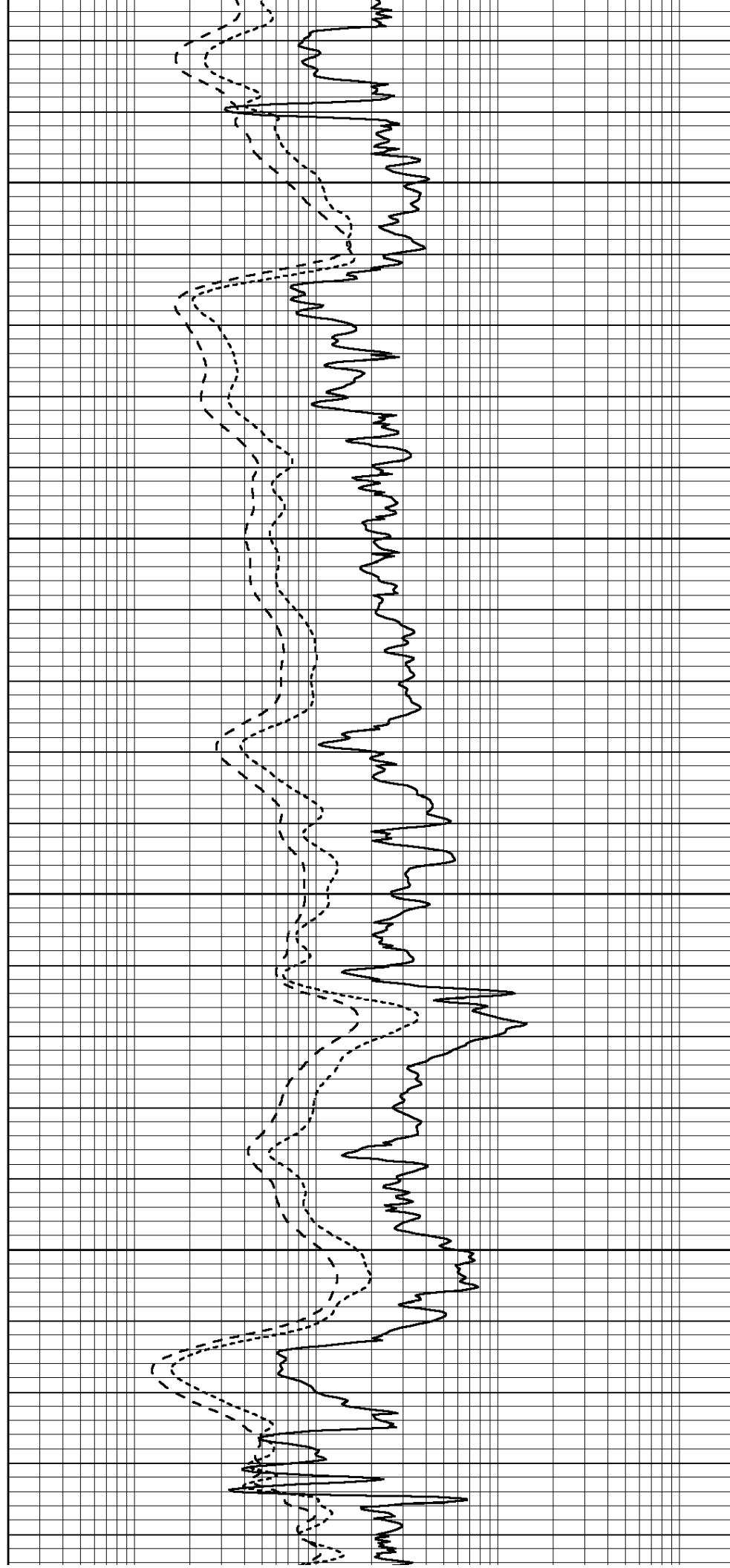


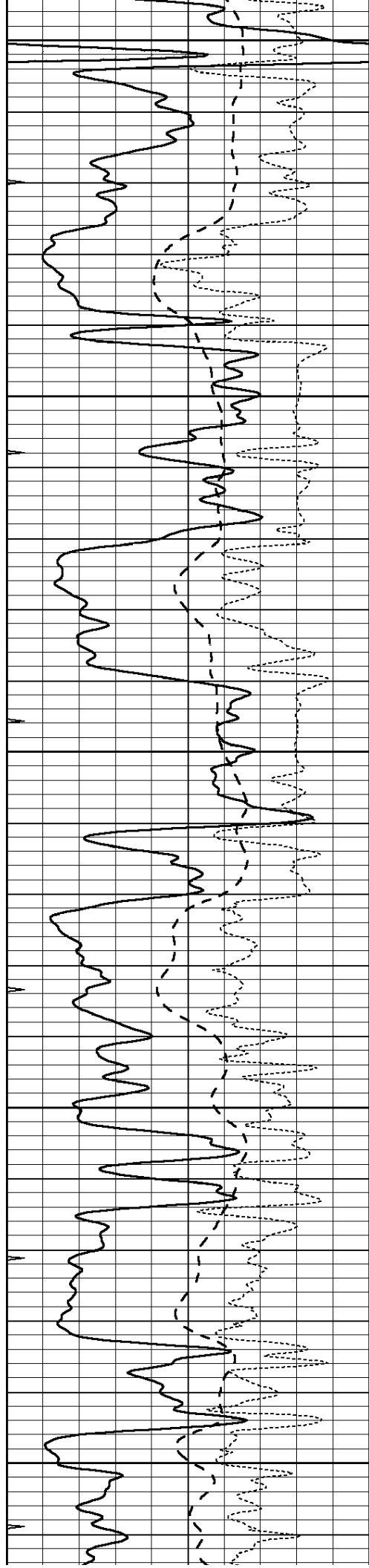
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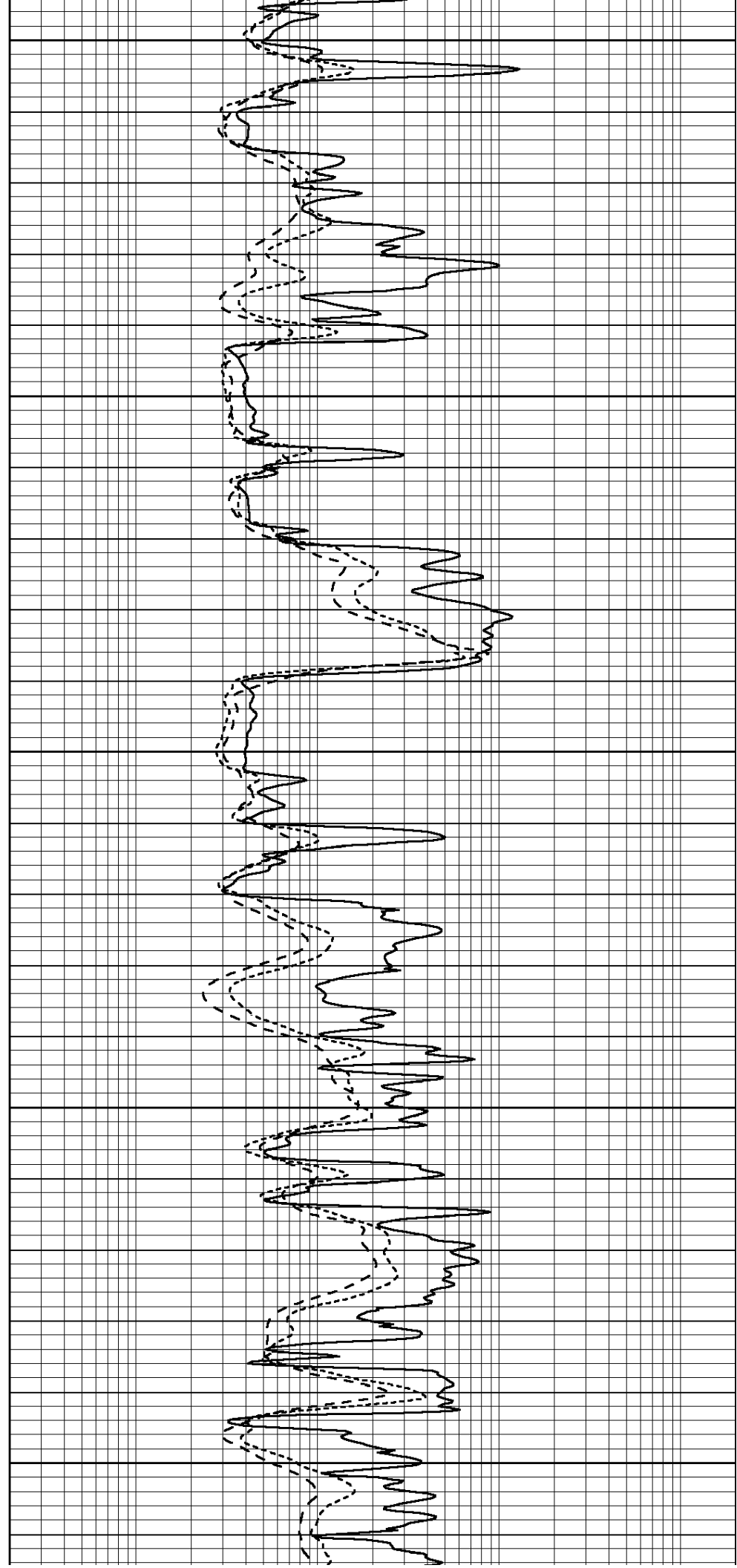
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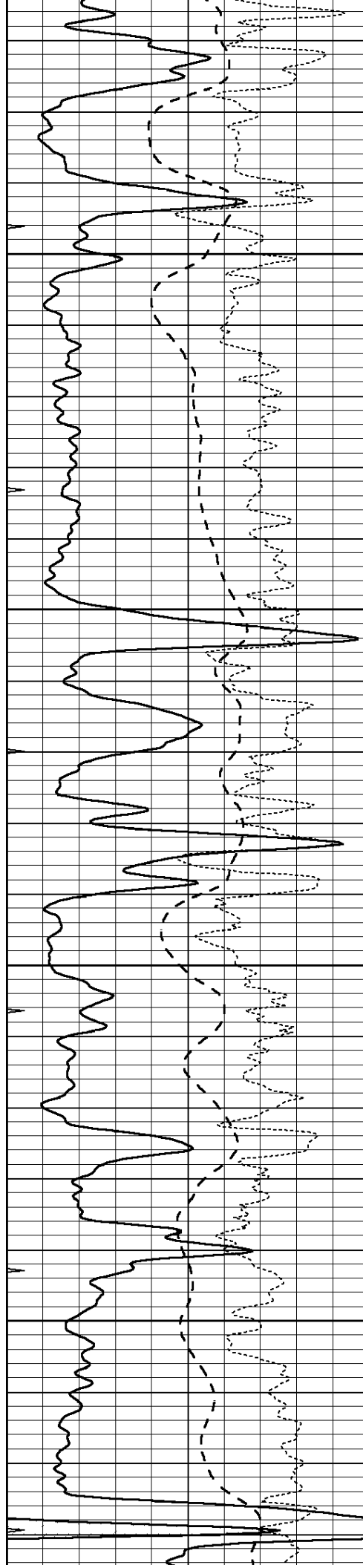
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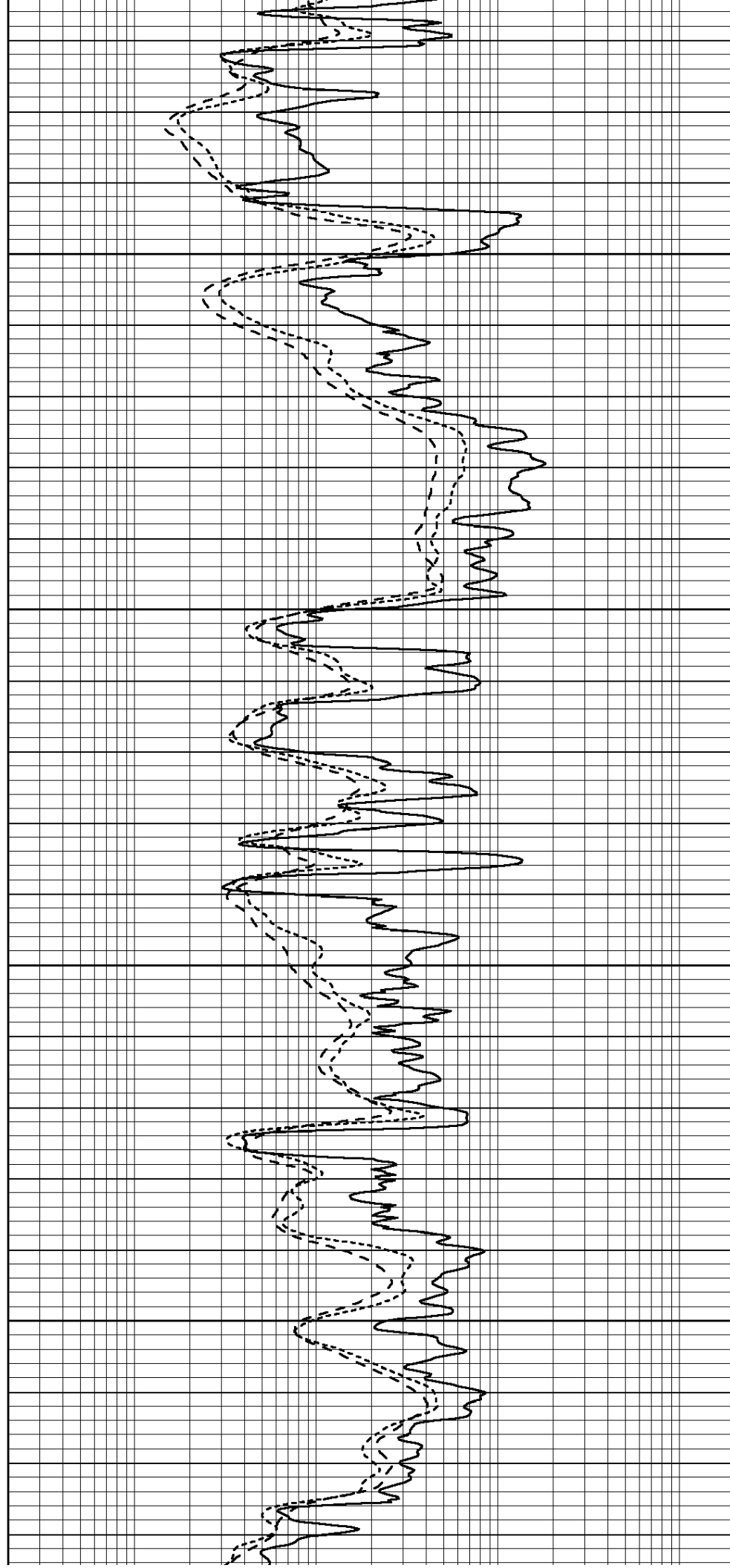


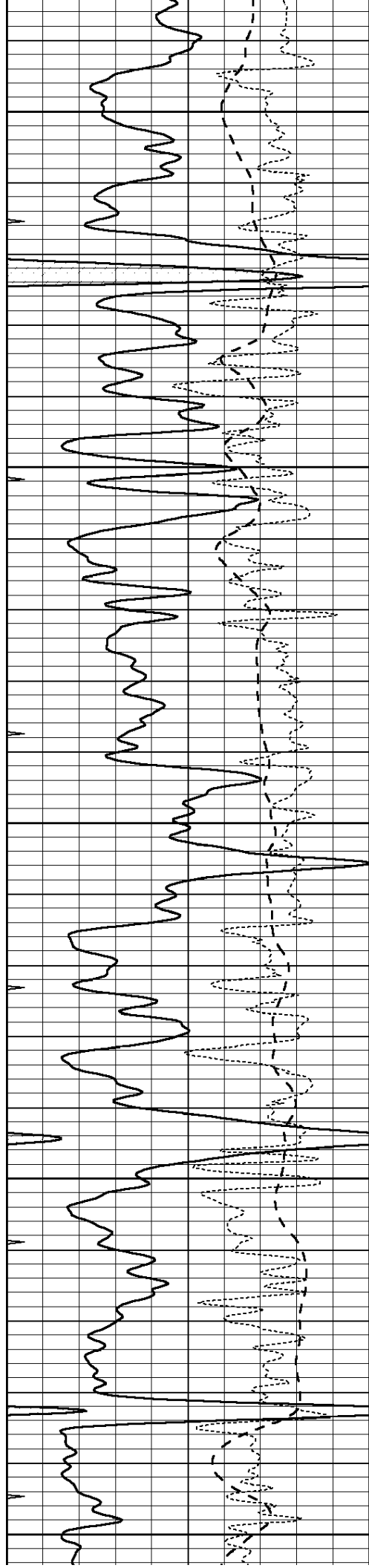
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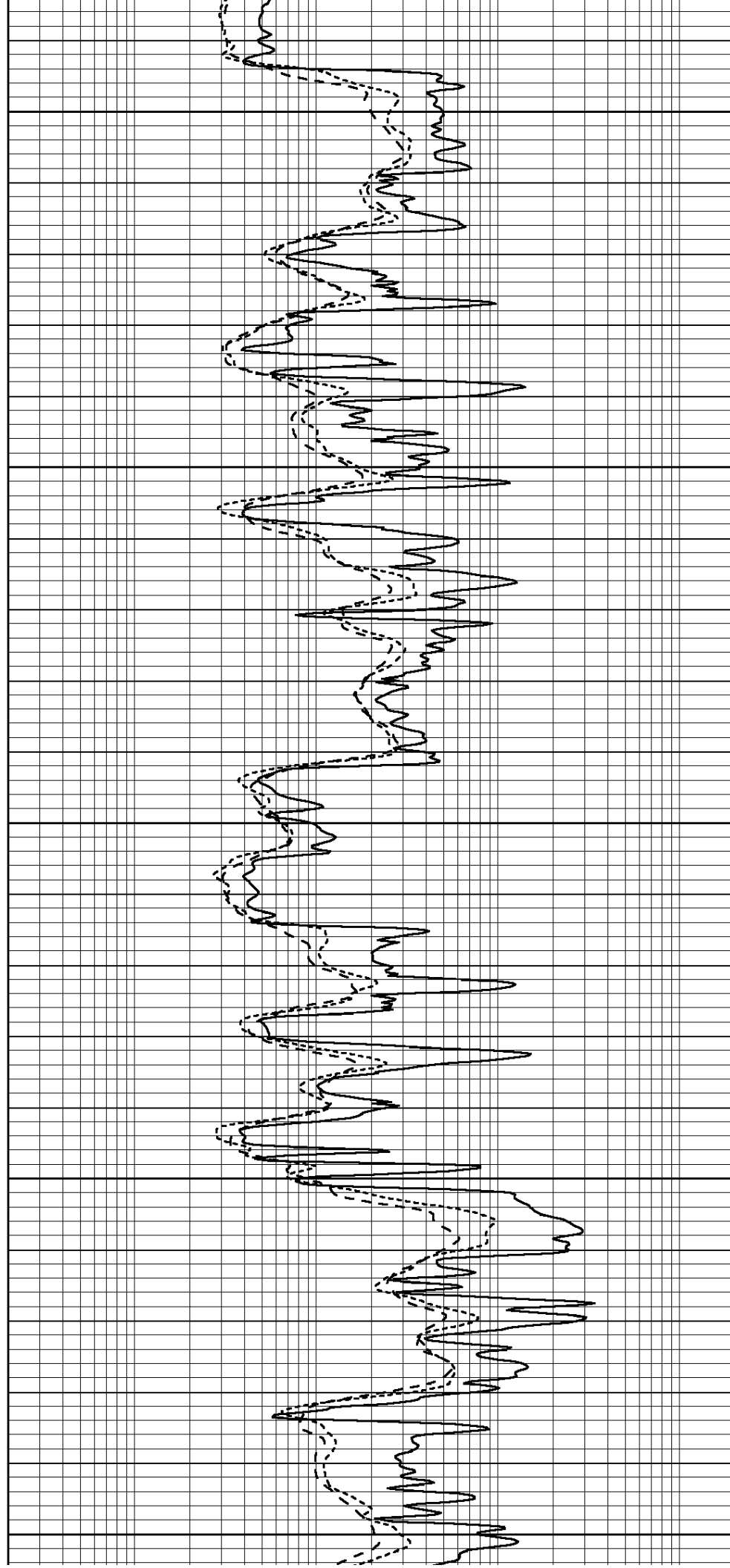
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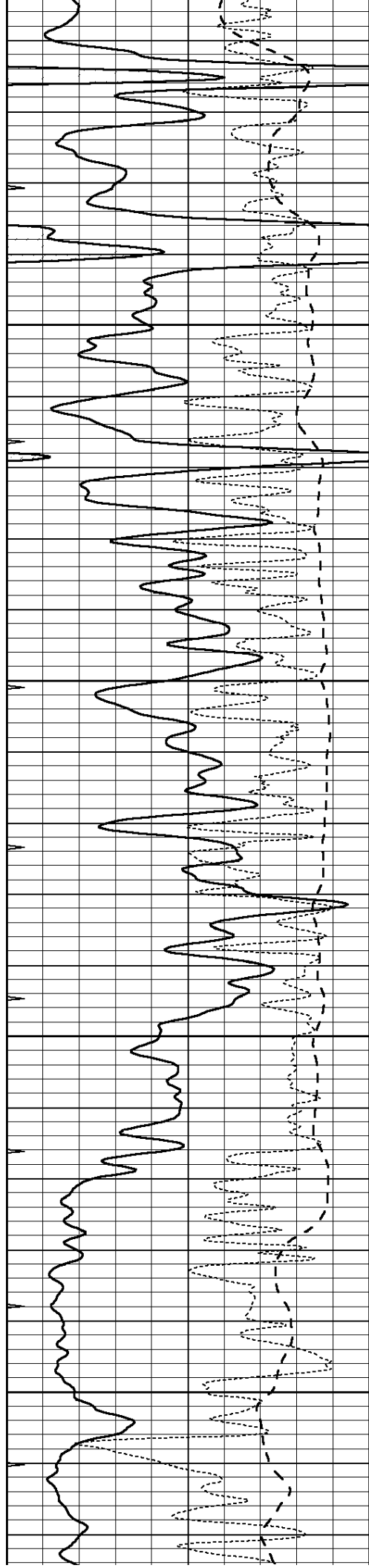
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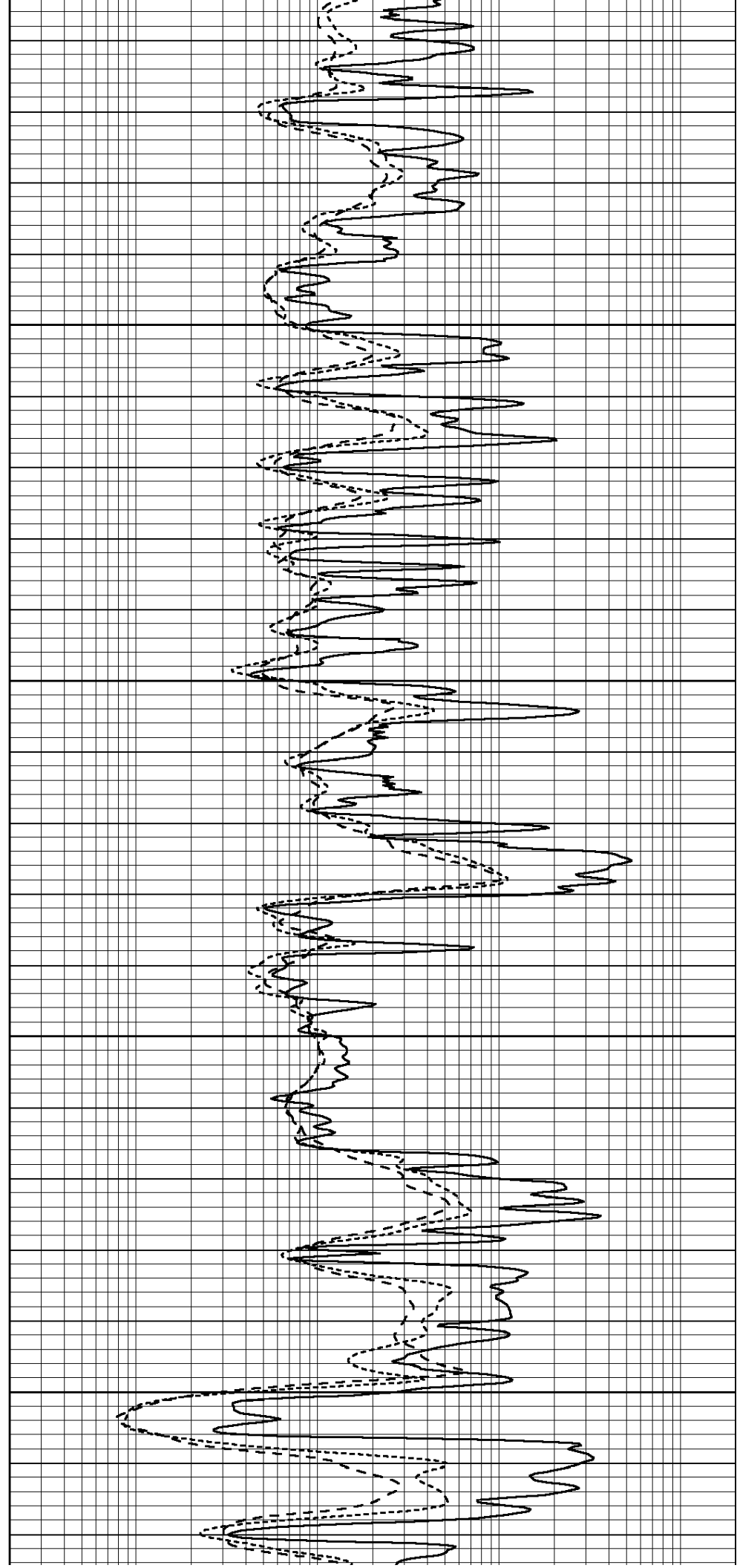


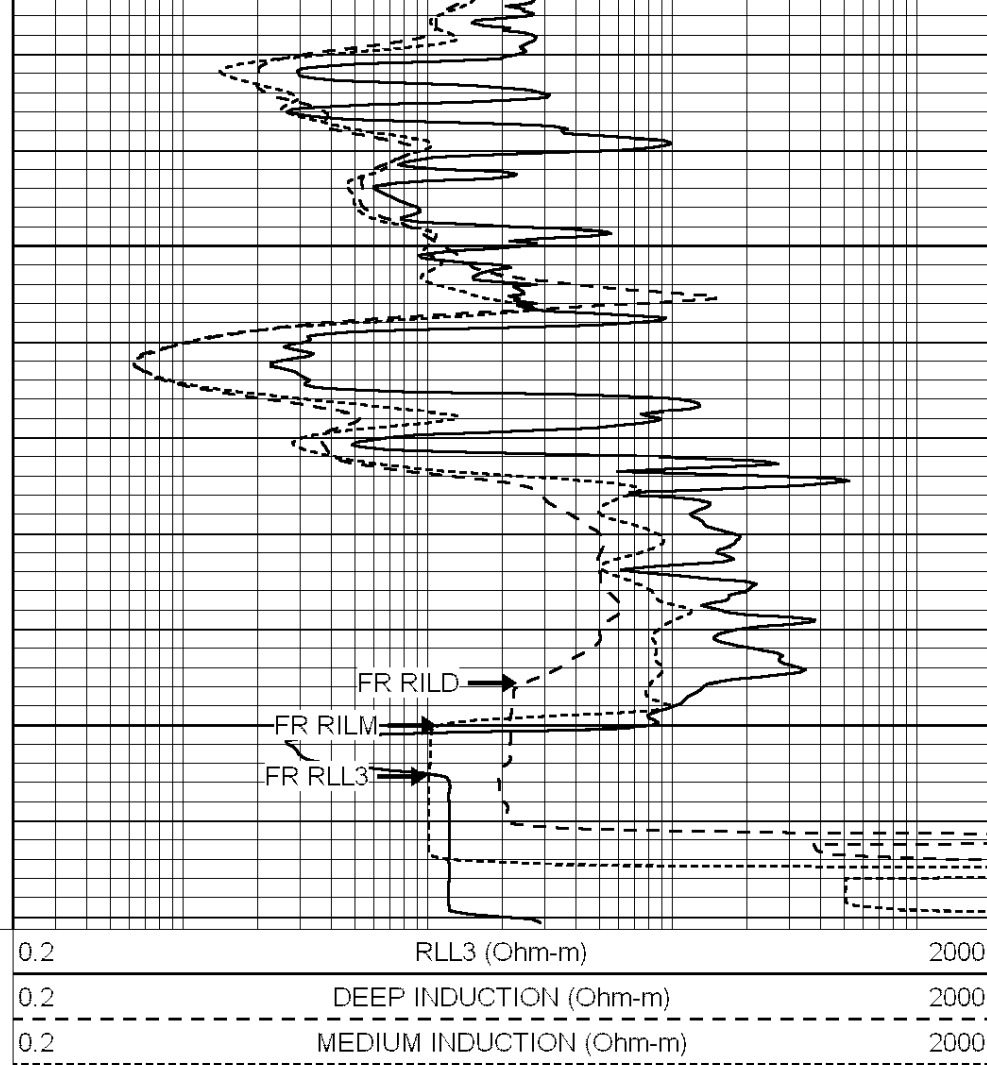
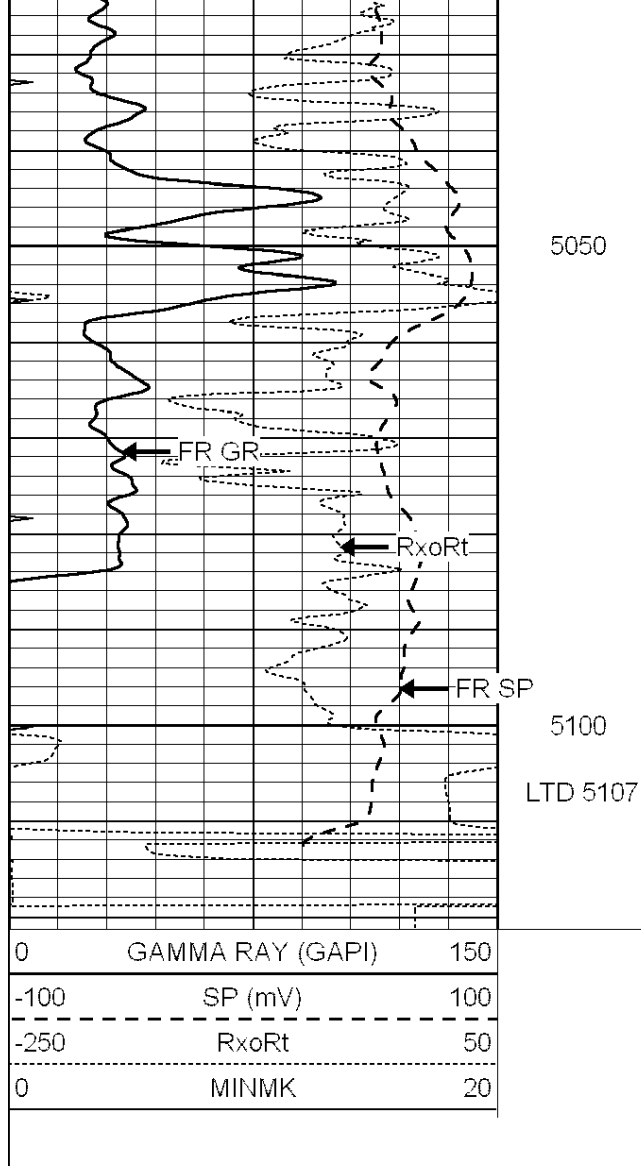
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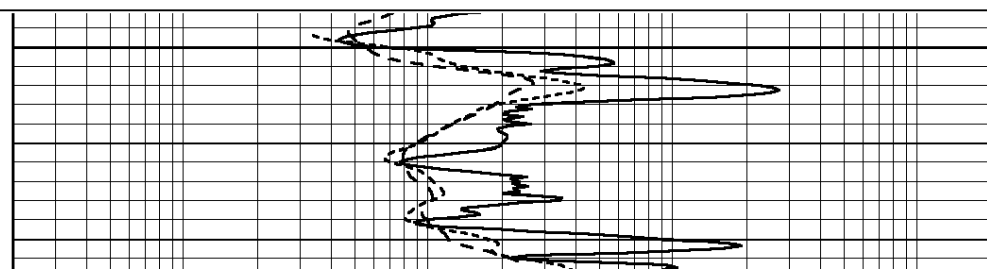
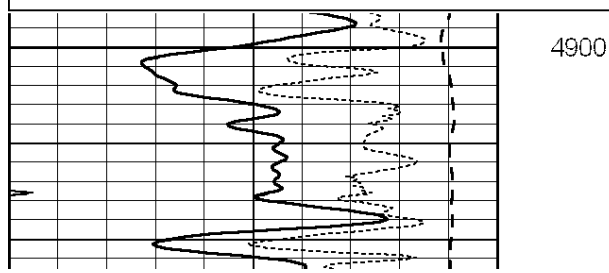
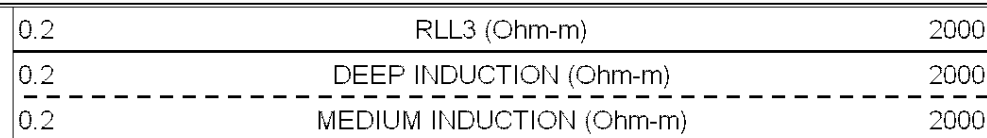
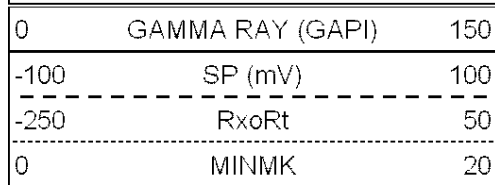


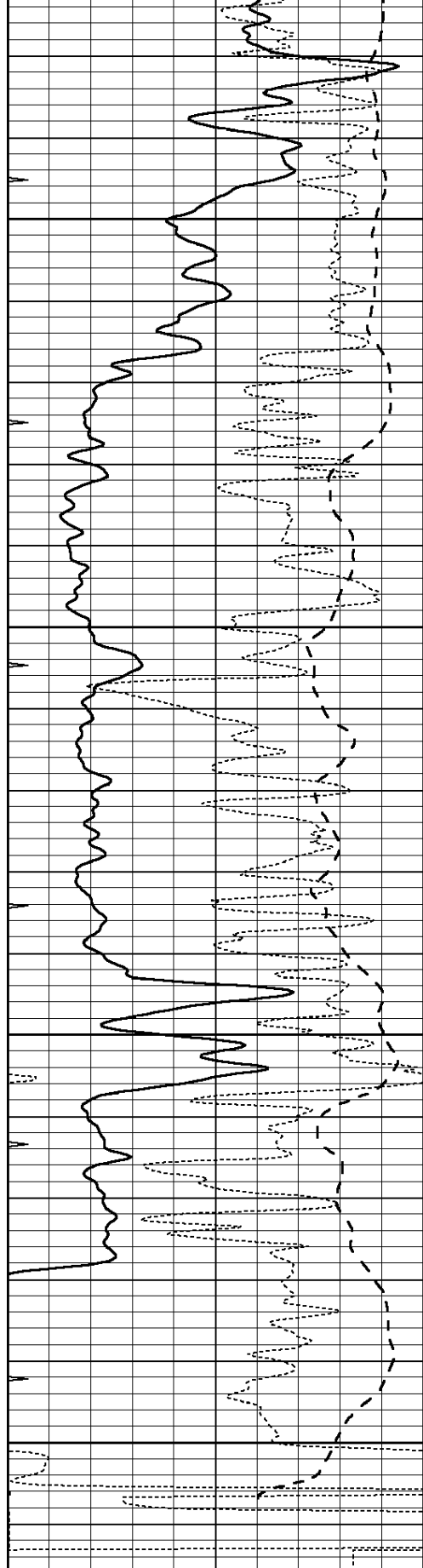


SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 009118ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: dil
 Dataset Creation: Wed May 16 15:53:15 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





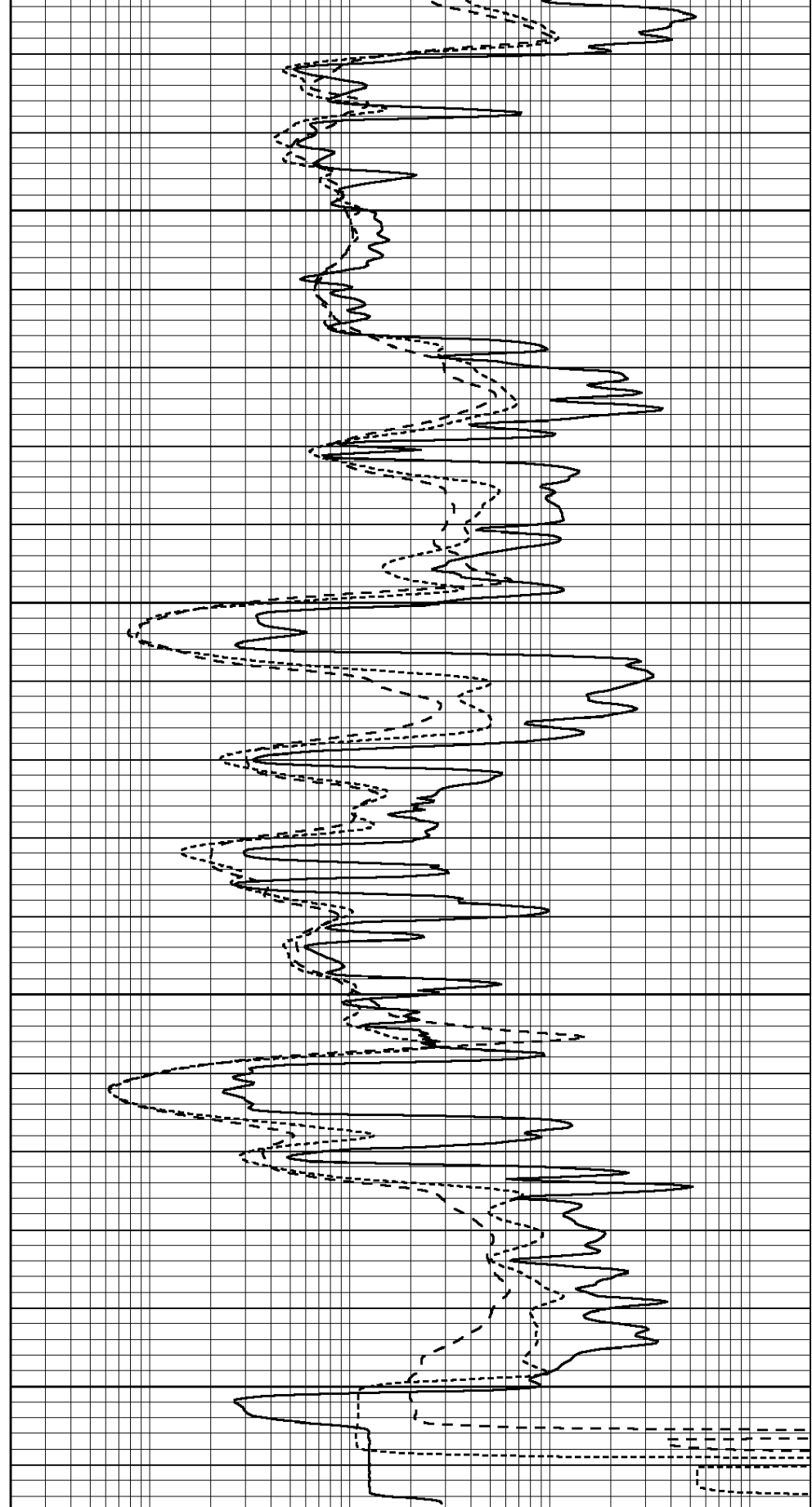
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5000

5050

5100

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

Calibration Report

Database File: 009118ddn.db
 Dataset Pathname: pass3.5
 Dataset Creation: Wed May 16 16:34:02 2012 by Calc 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

Readings				References			Results	
Loop:	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		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: GEAR2-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Fri Feb 04 23:31:20 2011

Master Calibration

Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc	1203.63	642.89	cps
Aluminum	2.590	g/cc	267.51	439.63	cps
Spine Angle = 75.82			Density/Spine Ratio = 0.567		
Size			Reading		
Small Ring	7.70	in	4.16	V	
Large Ring	14.00	in	5.99	V	

Compensated Neutron Calibration Report

		Serial Number: Tool Model:		NUE_2I G	
CALIBRATION					
Detector		Readings		Target	
				Normalization	
Short Space		1.00	cps	1.00	cps
Long Space		1.00	cps	1.00	cps
Gamma Ray Calibration Report					
Serial Number:		GR5			
Tool Model:		OPEN			
Performed:		Sun May 13 08:39:20 2012			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.6500	GAPI/cps		