



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	RITCHIE EXPLORATION, INC.	
Well	BARNGROVER #1	
Field		
County	FORD	State KANSAS
Location:	API # : 15-057-20829-0000	
2305' FNL & 335' FEL SE - SE - NE		Other Services CDL/CNL
SEC 7 TWP 28S RGE 23W		Elevation
Permanent Datum	GROUND LEVEL	Elevation 2515
Log Measured From	KELLY BUSHING 12' A.G.L.	K.B. 2527 D.F. 2525 G.L. 2515
Drilling Measured From	KELLY BUSHING	
Date	7-23-12	
Run Number	ONE	
Depth Driller	5299	
Depth Logger	5298	
Bottom Logged Interval	5274	
Top Log Interval	3500	
Casing Driller	345	
Casing Logger		
Bit Size	7.875	
Type Fluid in Hole	CHEMICAL MUD	
Density / Viscosity	9.0 / 49	CHLORIDES 9,200 PPM
pH / Fluid Loss	10.0 / 10.4	
Source of Sample	FLOWLINE	
Rim @ Meas. Temp	0.45 @ 90F	
Rmf @ Meas. Temp	0.34 @ 90F	
Rmc @ Meas. Temp	0.54 @ 90F	
Source of Rmf / Rmc	MEASURED	
Rim @ BHT	0.32 @ 128F	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom		
Maximum Recorded Temperature	128F	
Equipment Number	860	
Location	HAYS, KS.	
Recorded By	JEFF GRONEWEG	
Witnessed By	MACKLIN ARMSTRONG	

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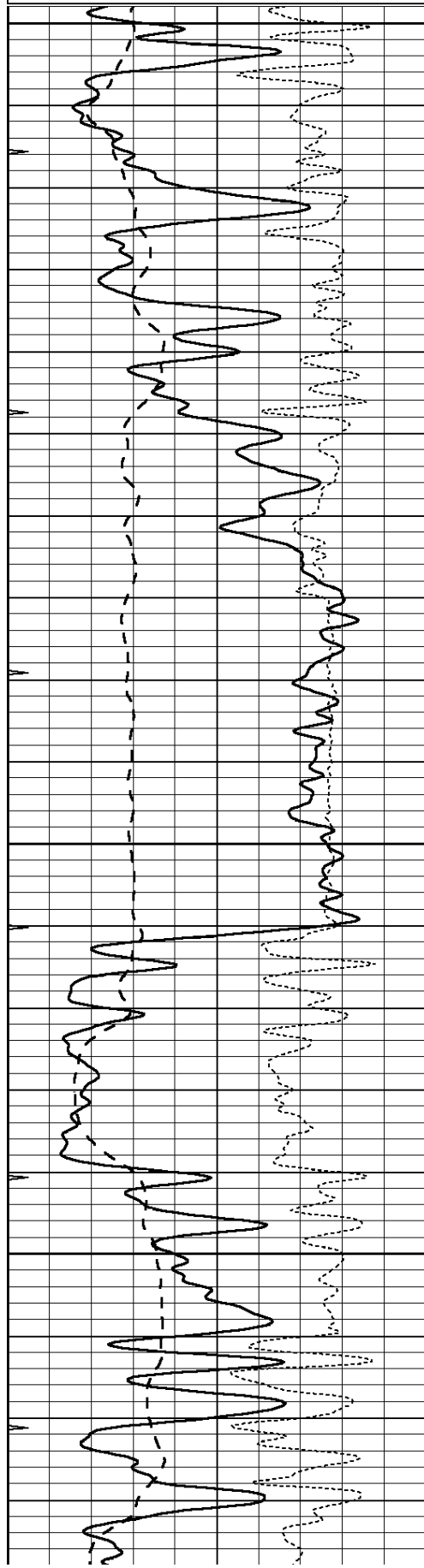
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: FORT DODGE, KS - EAST TO RD 117 - SOUTH TO SADDLE RD
1 MILE EAST - 1 MILE SOUTH - 3/4 MILE EAST - SOUTH INTO

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

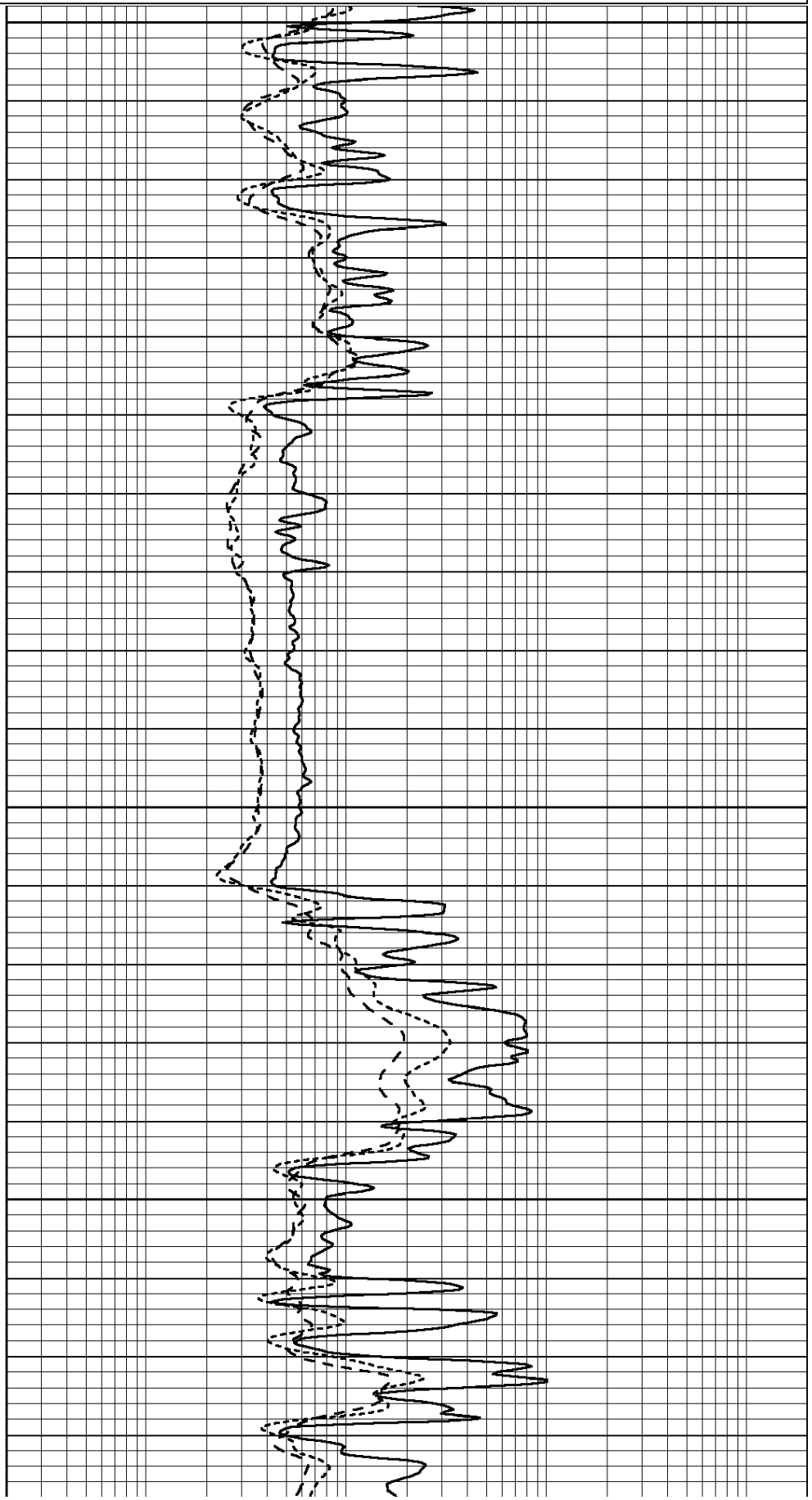


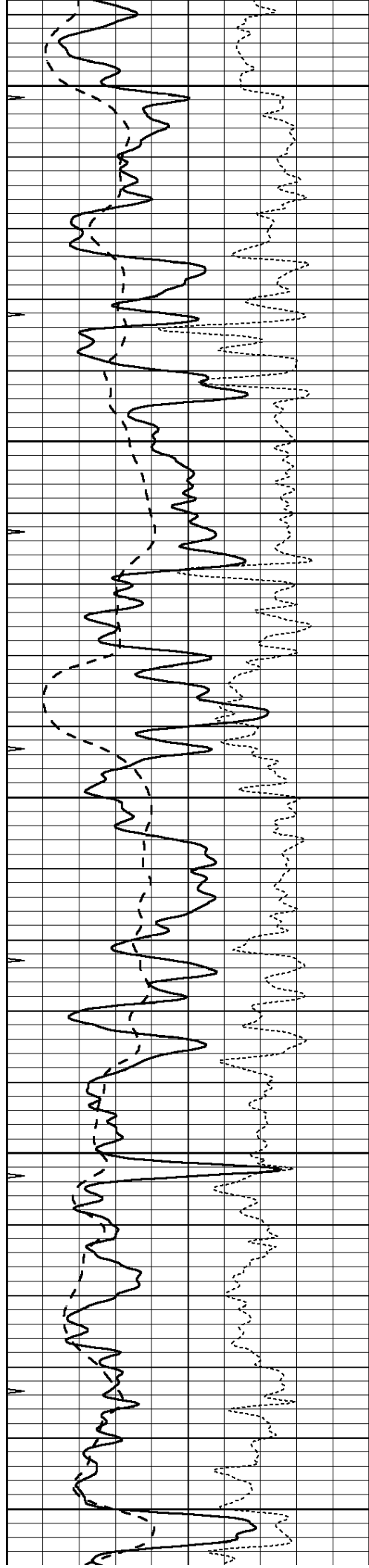
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3600

3650





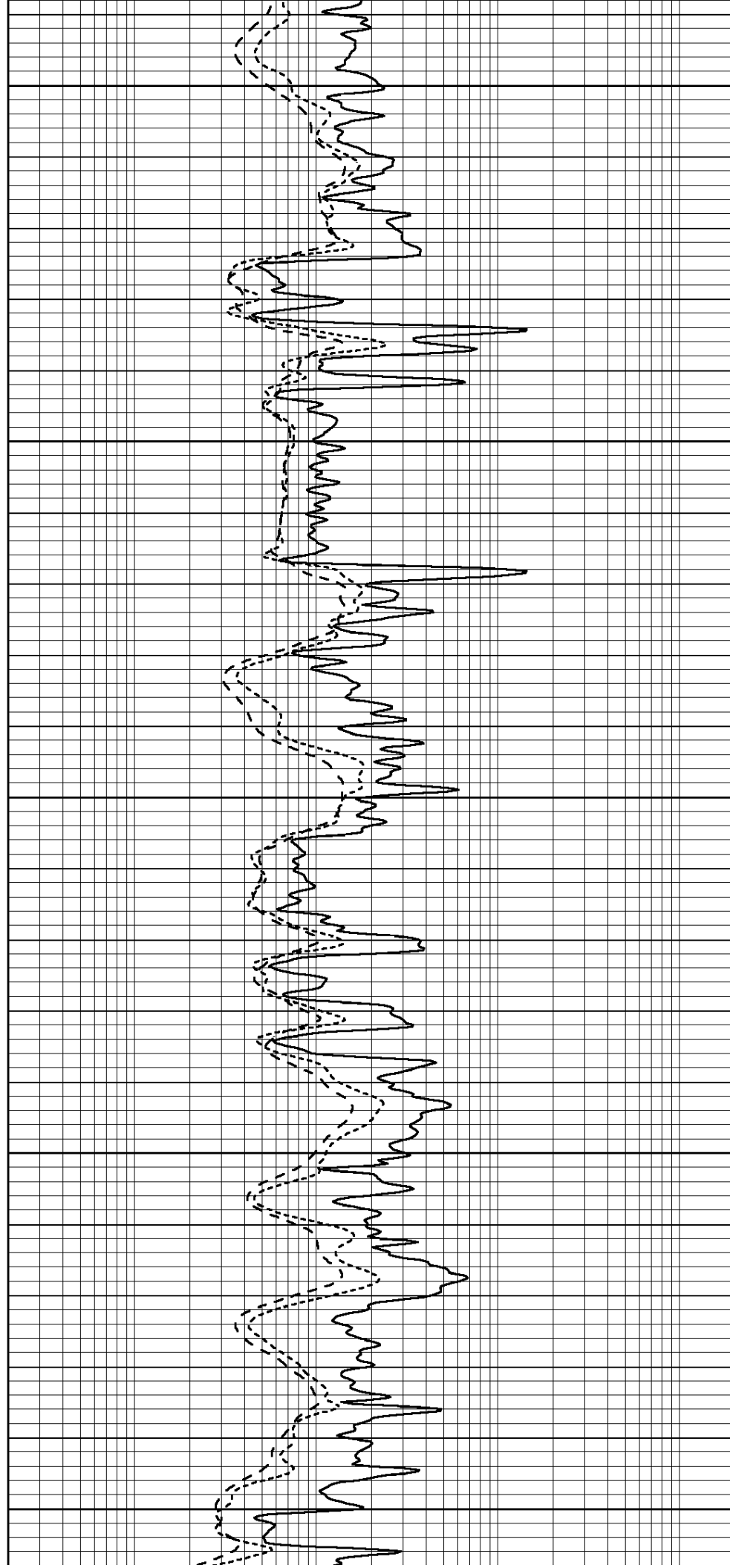
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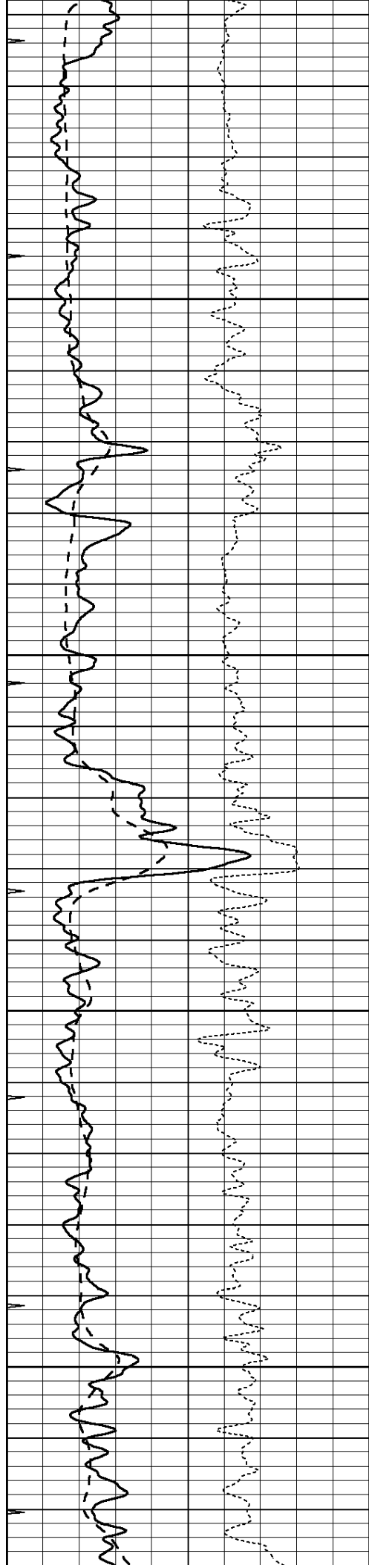
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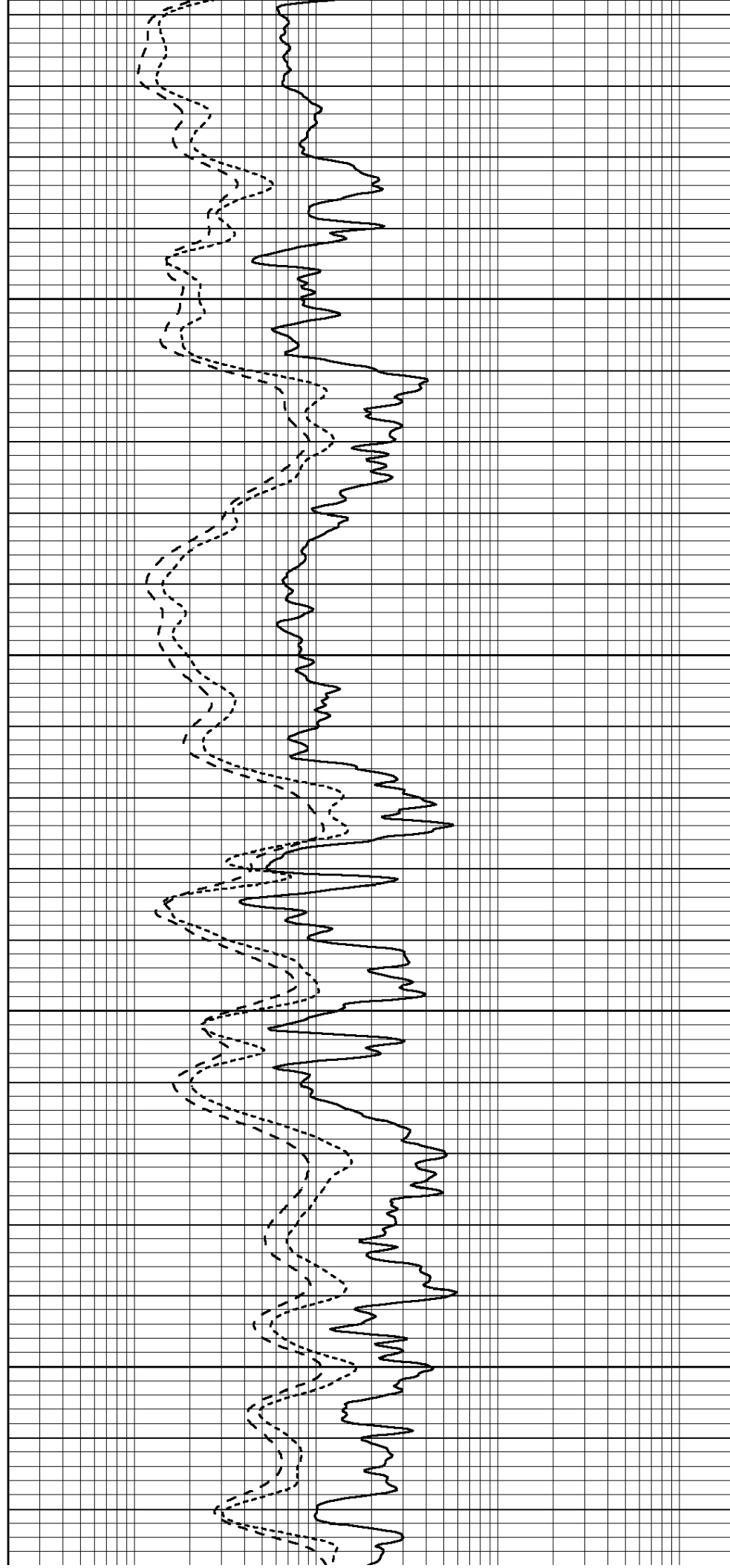


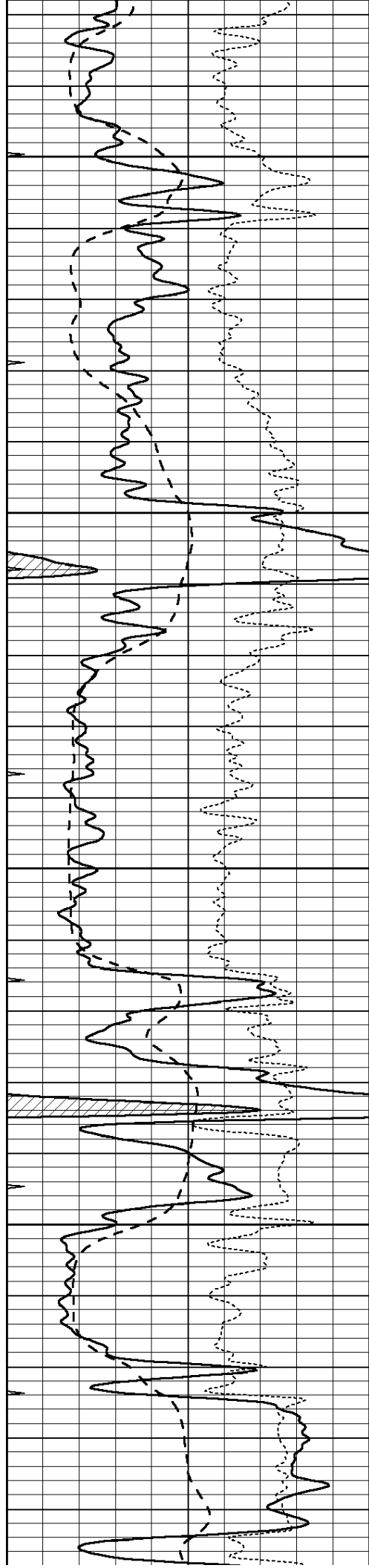
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4000

4050

4100



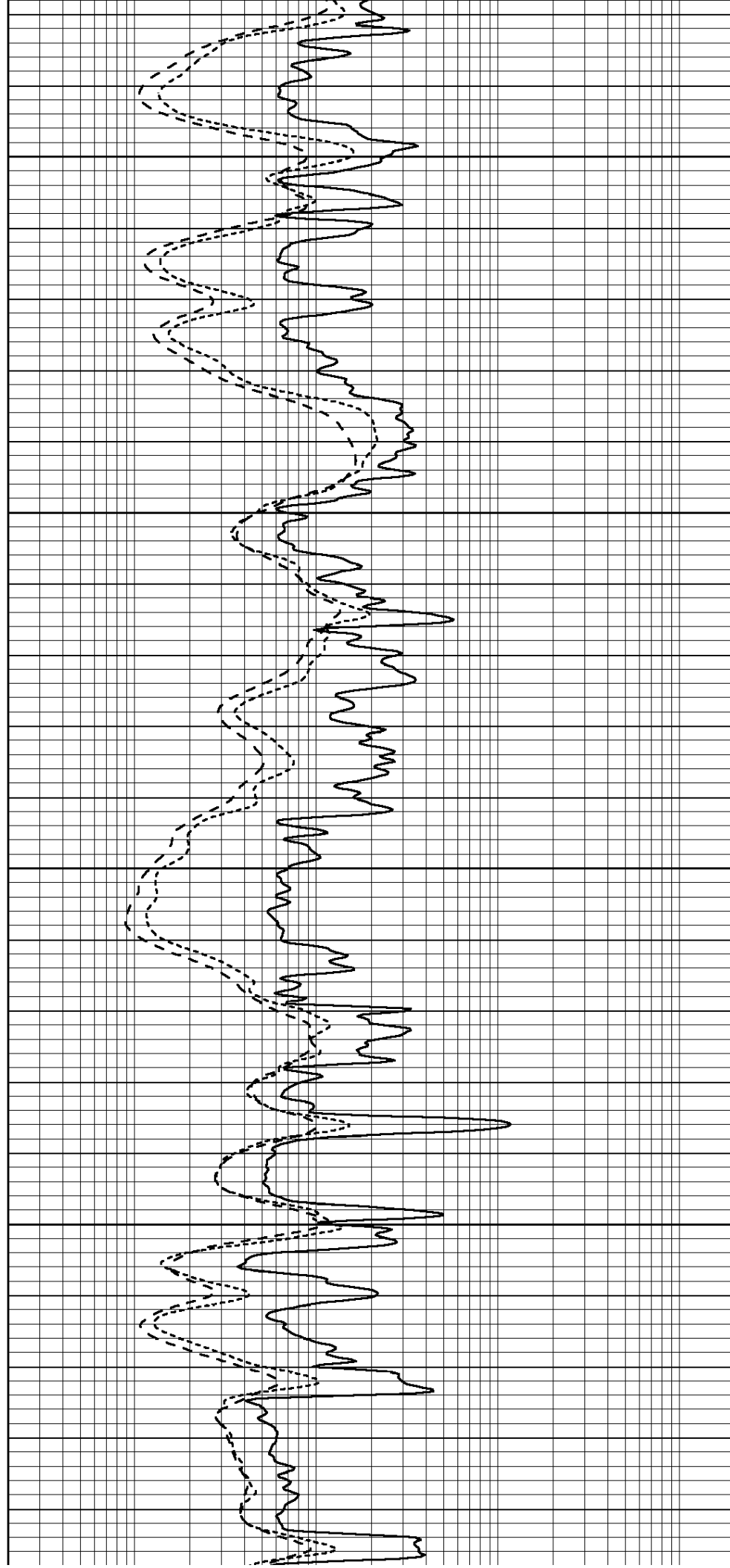


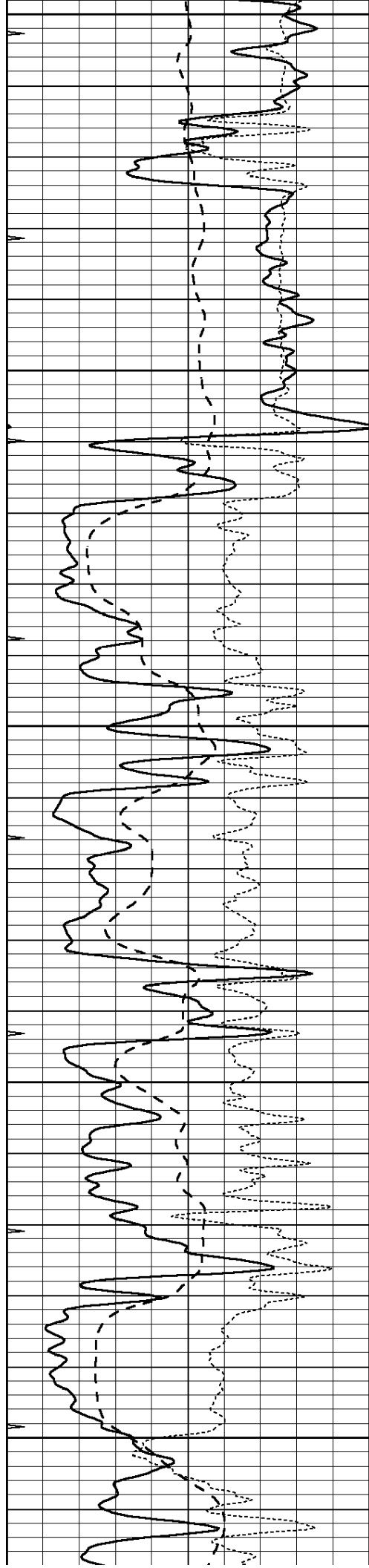
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4200

4250

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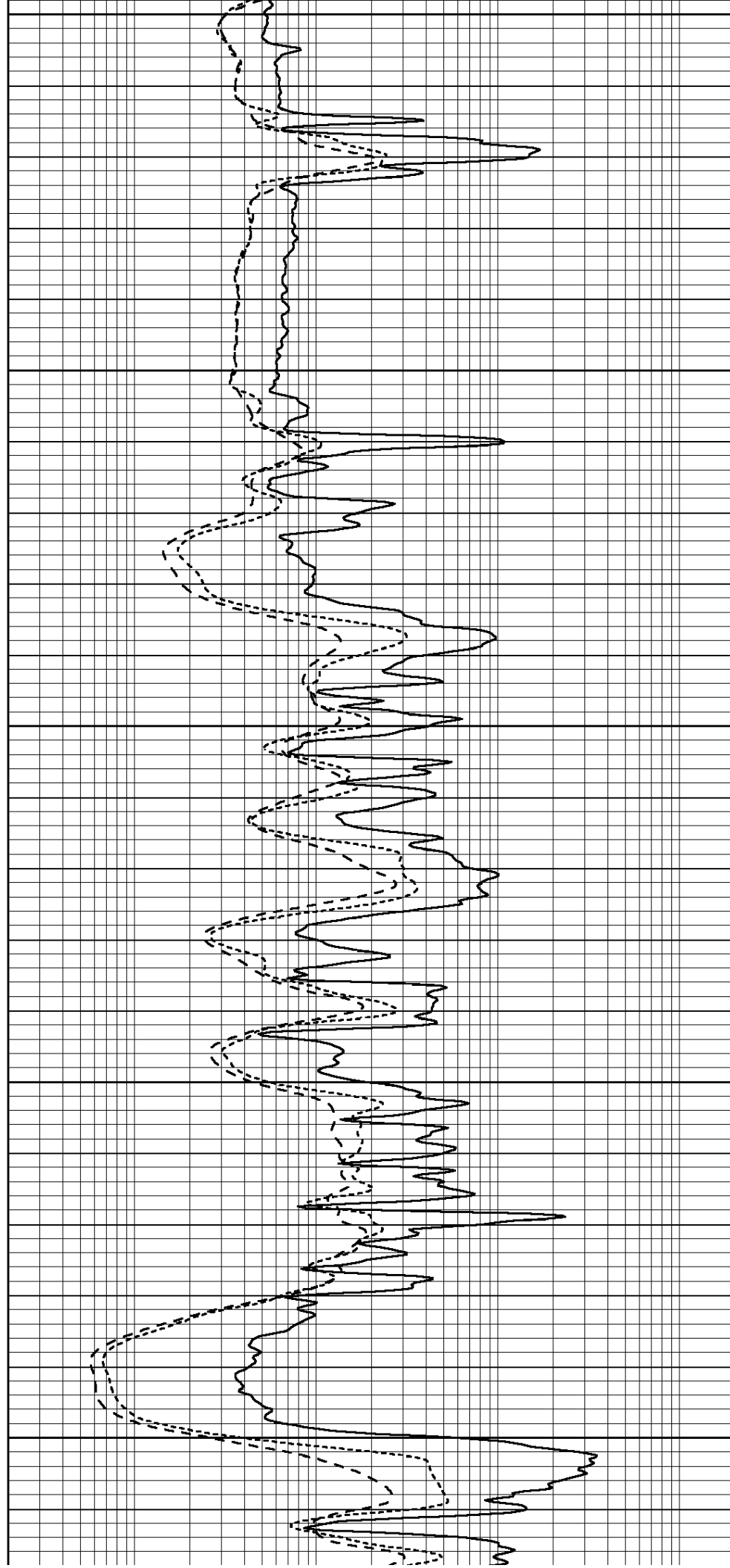
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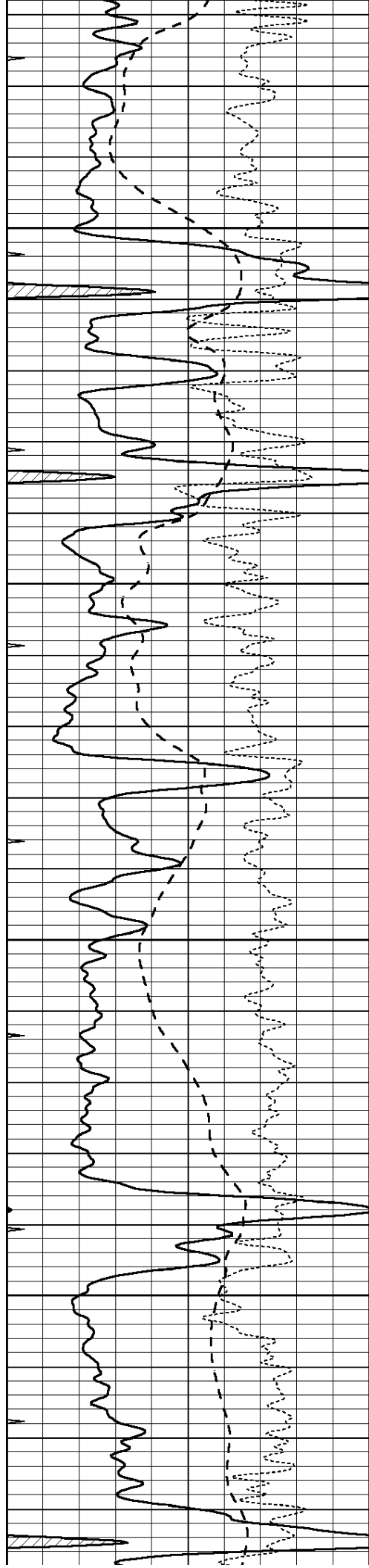
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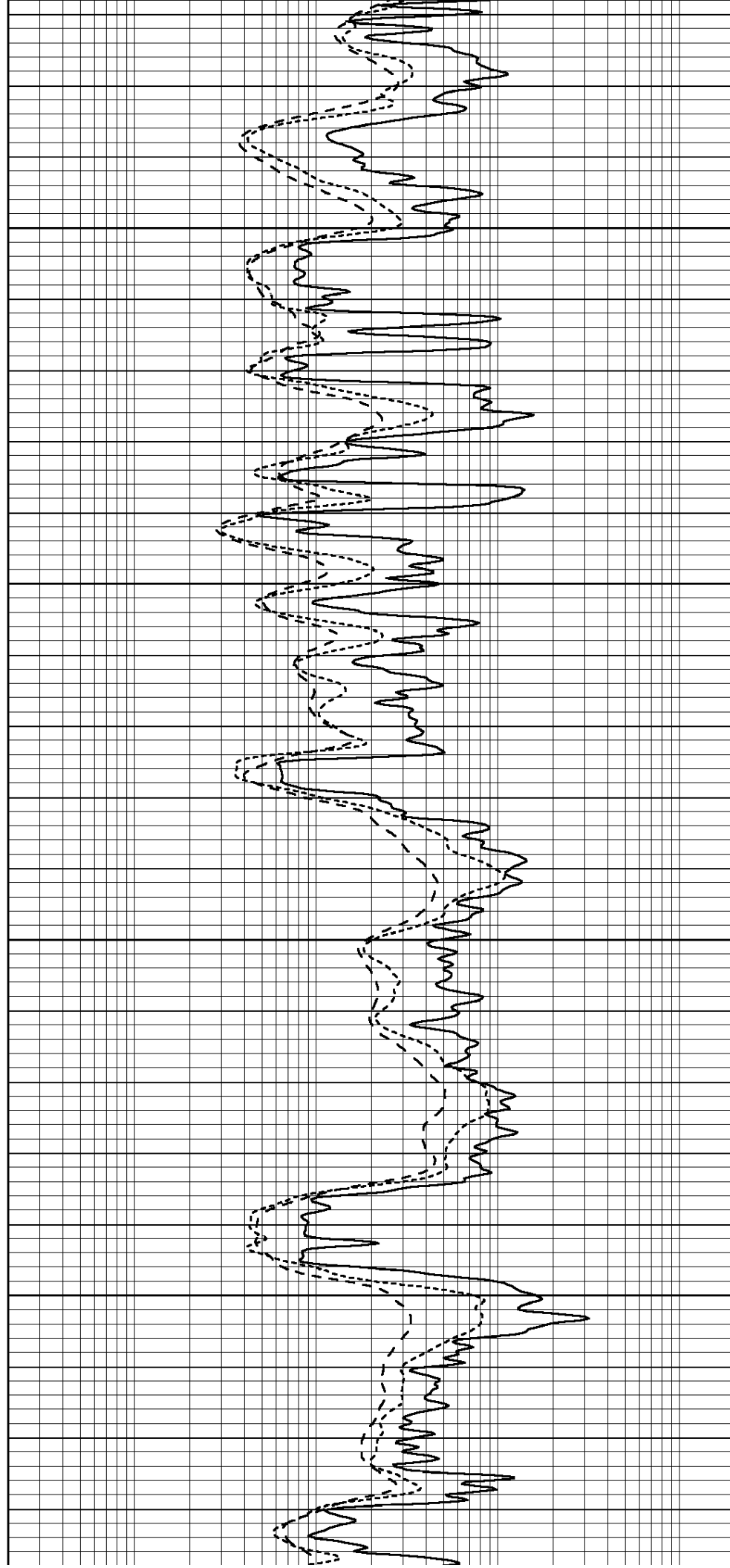


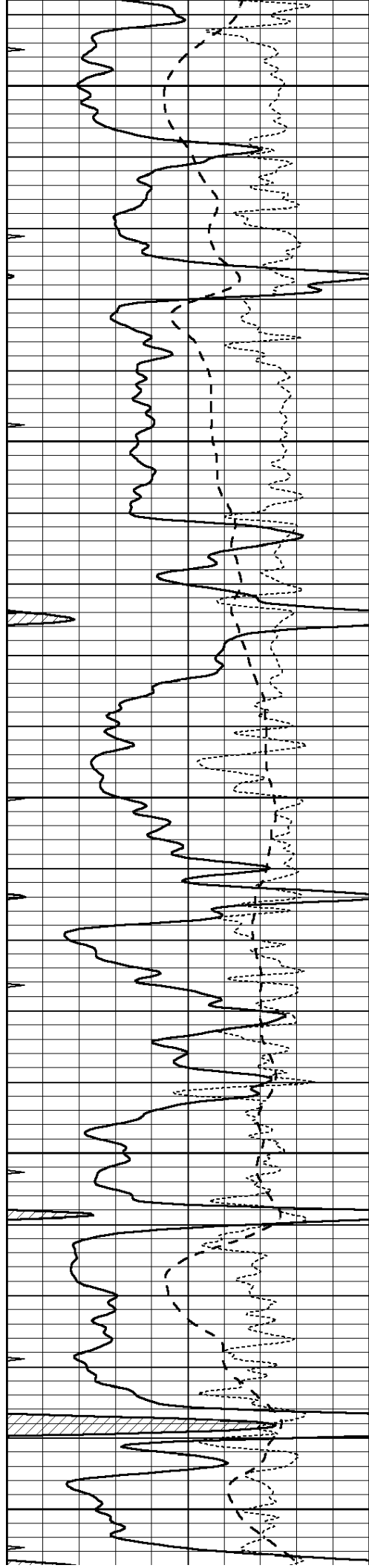
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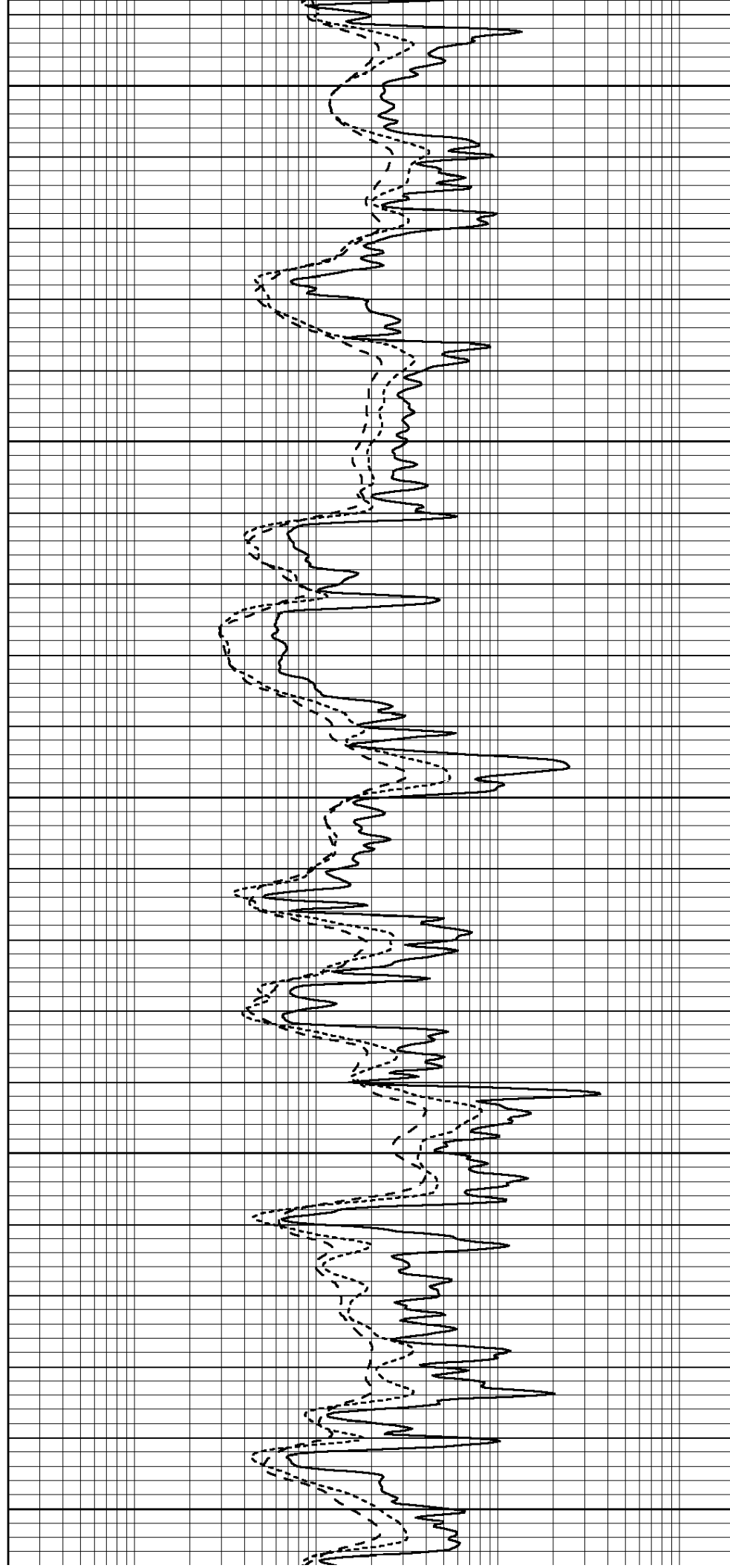
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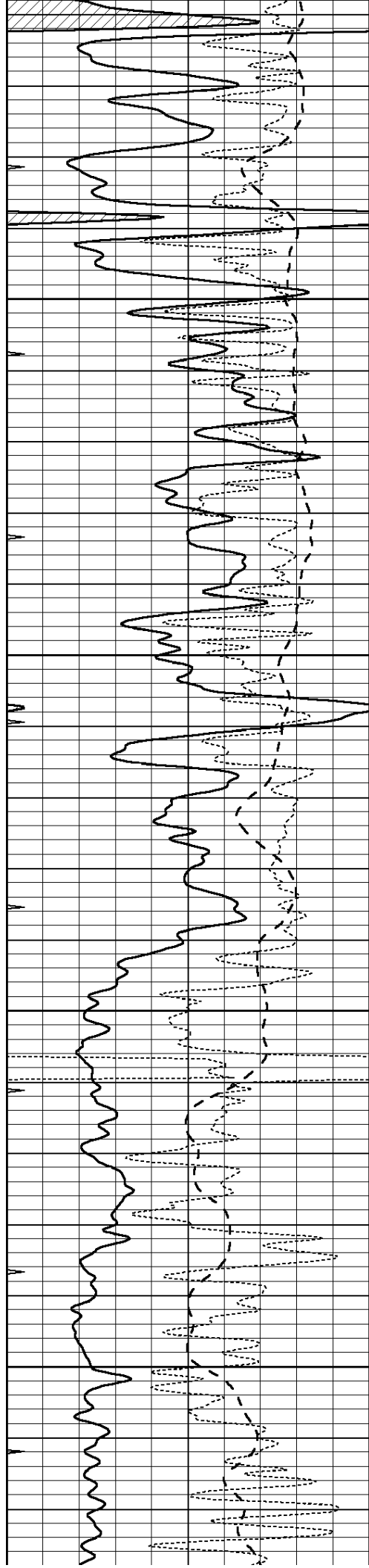
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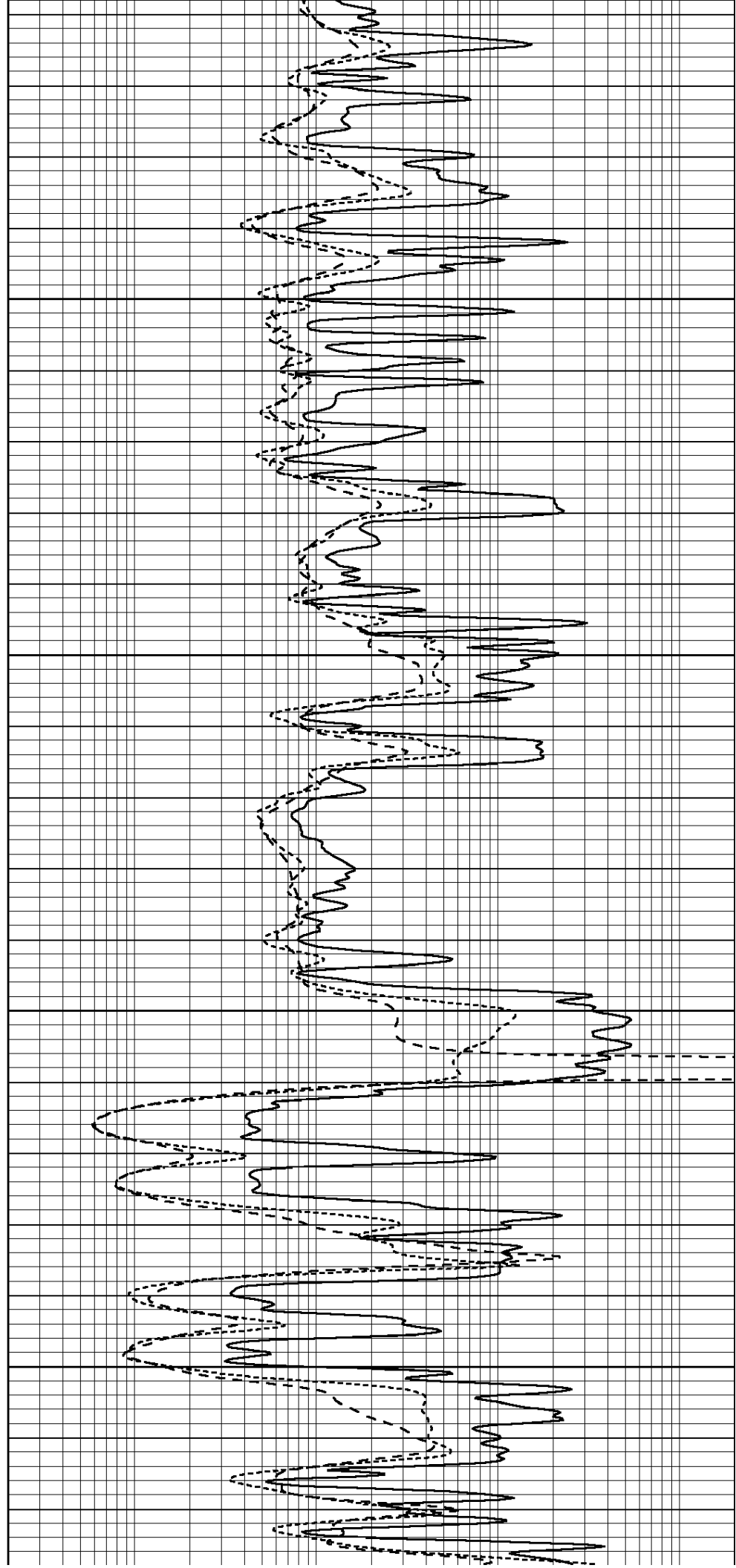


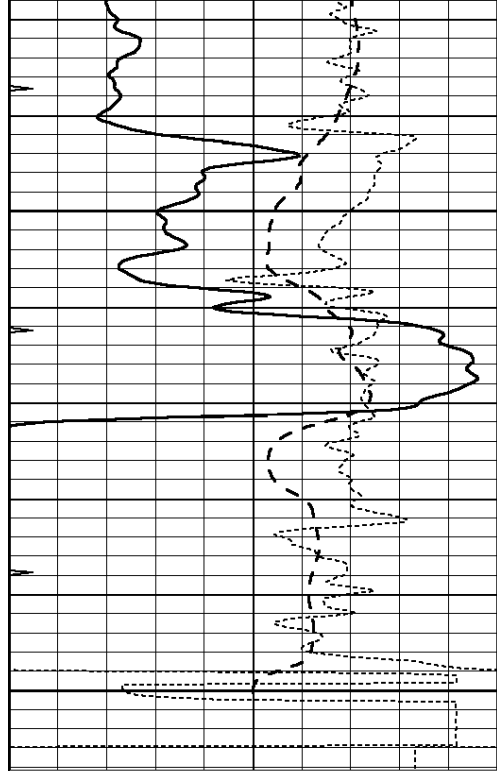
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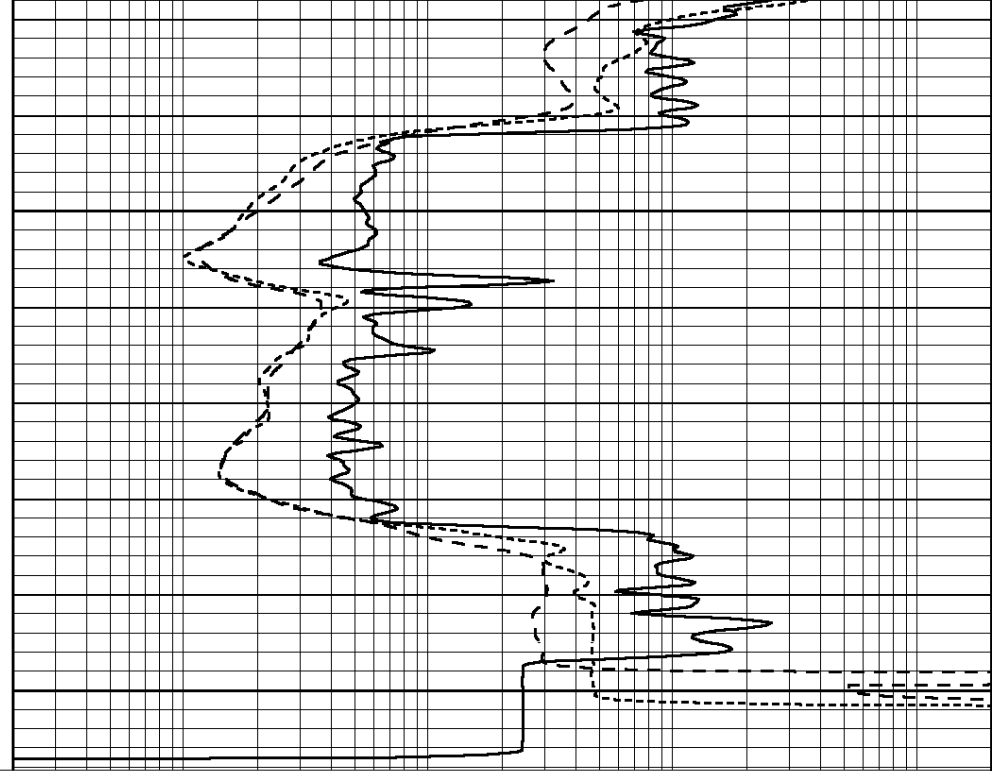




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