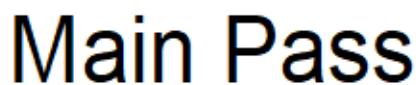


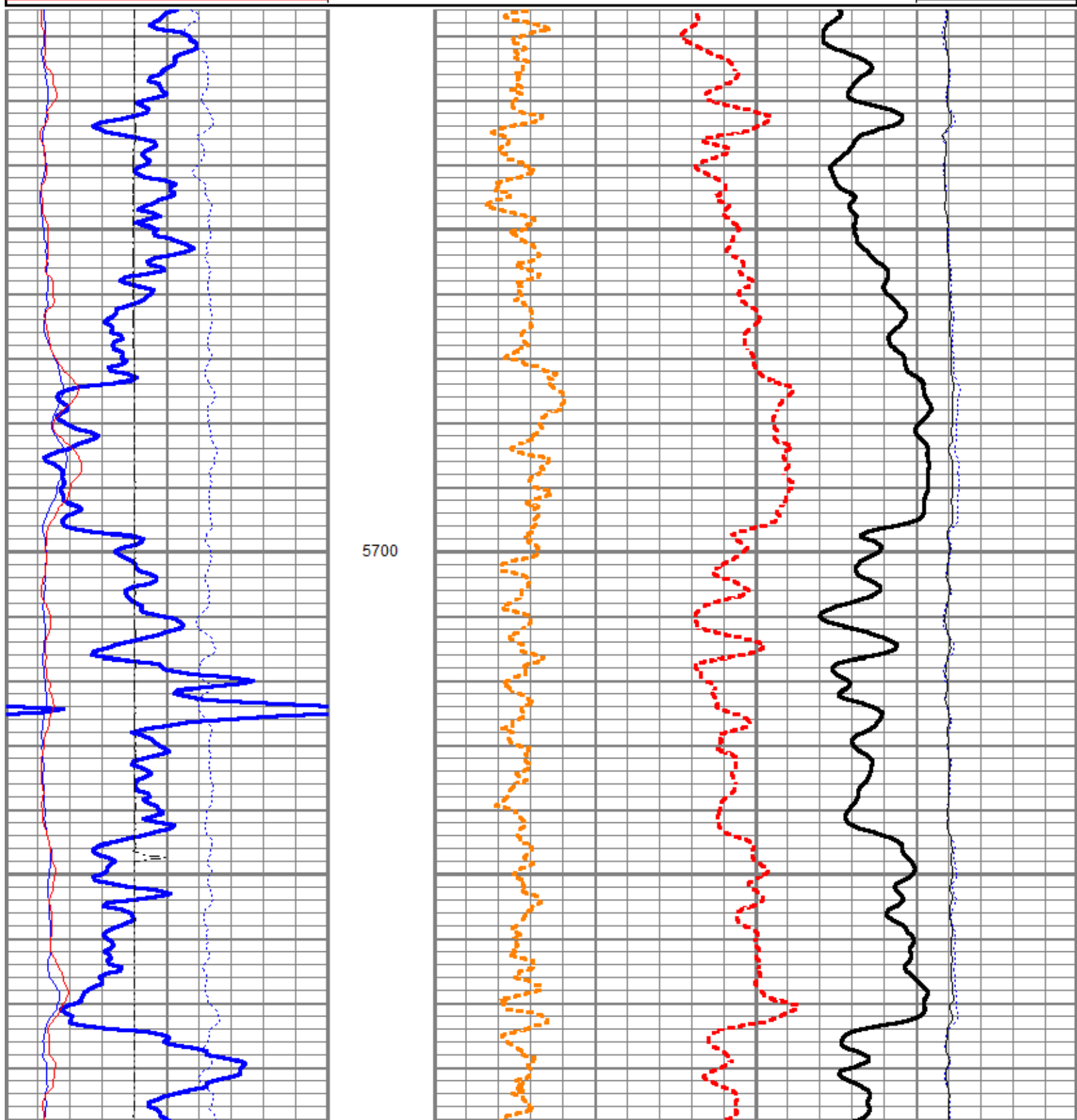
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
<p>Log ran as per customer request Depth referenced to Reliance Bond Log dated 30-NOV-2018 Log ran from 10925 FT to 5616 FT Pulsed Neutron Data logged with the Hunter RAS Tool</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!</p>

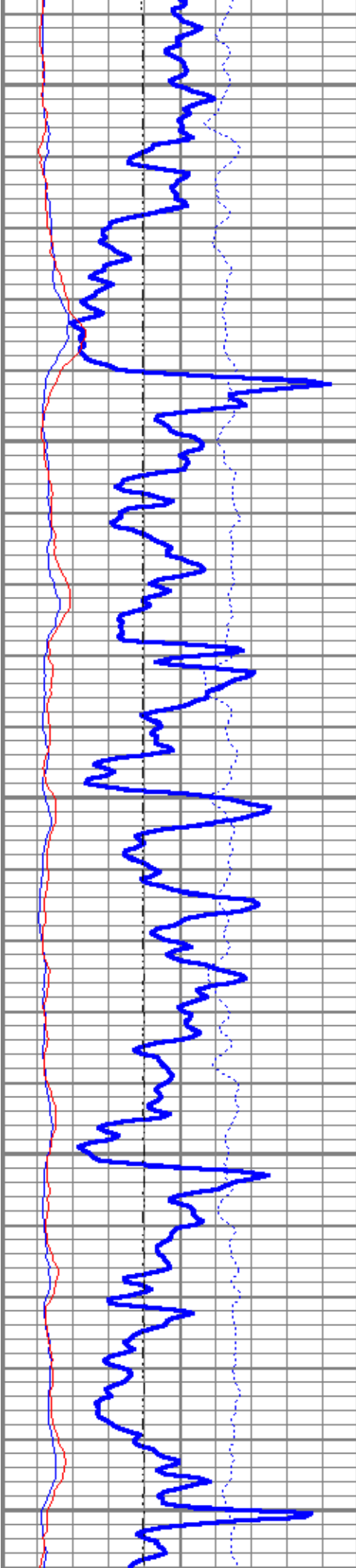


Database File	c:\techlog-projects\ursa_boies ranch b-19n fed pad_emulations\data\export\23b\processed_ursa_boies ranch b-19n fed 23b-19
Dataset Pathname	merge1
Presentation Format	ros_pdn_hunter
Dataset Creation	Sun Dec 02 15:05:09 2018
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

4	RNF2	0
60	SIGMA (cu)	0
4.5	RNFI	0
0	FIS2 (cps)	5000
0	NIS2 (cps)	10000

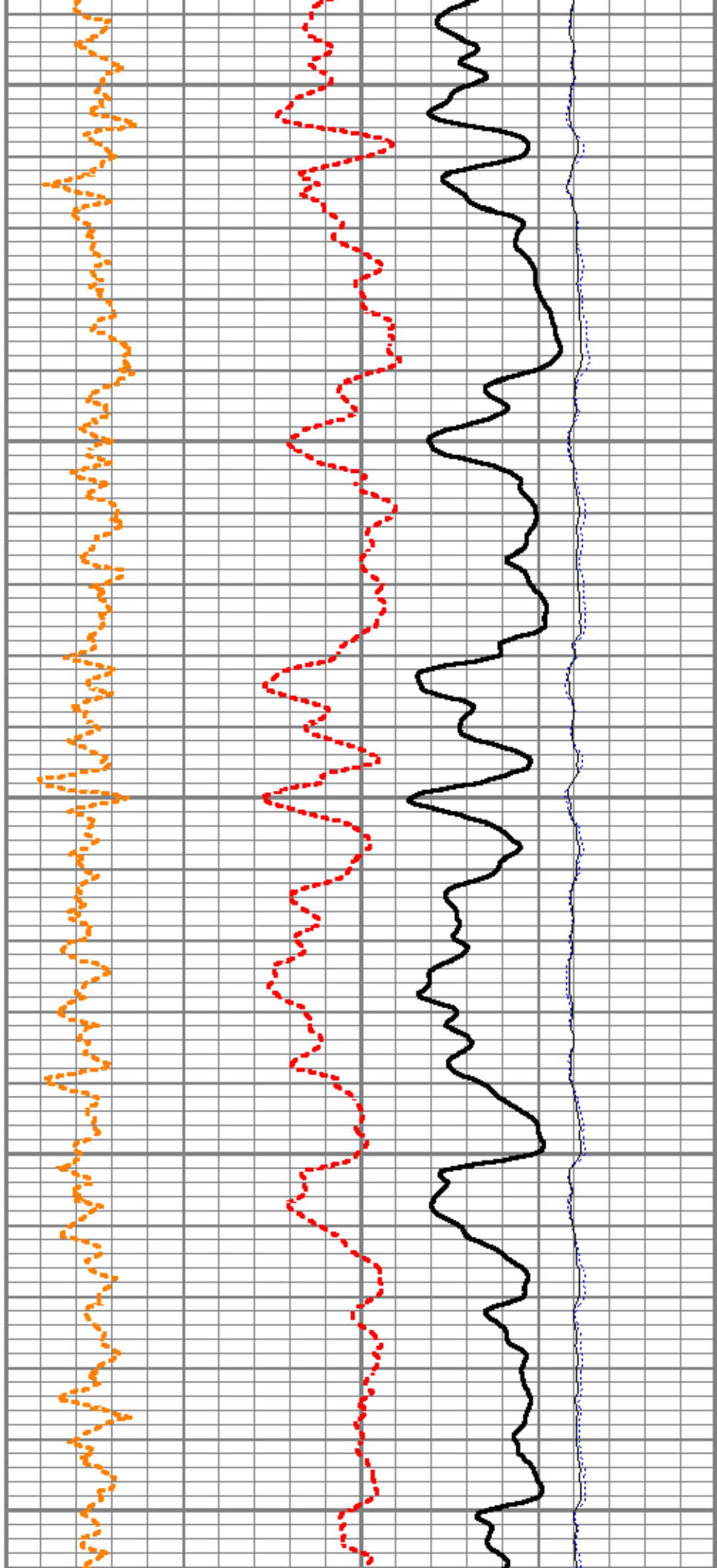


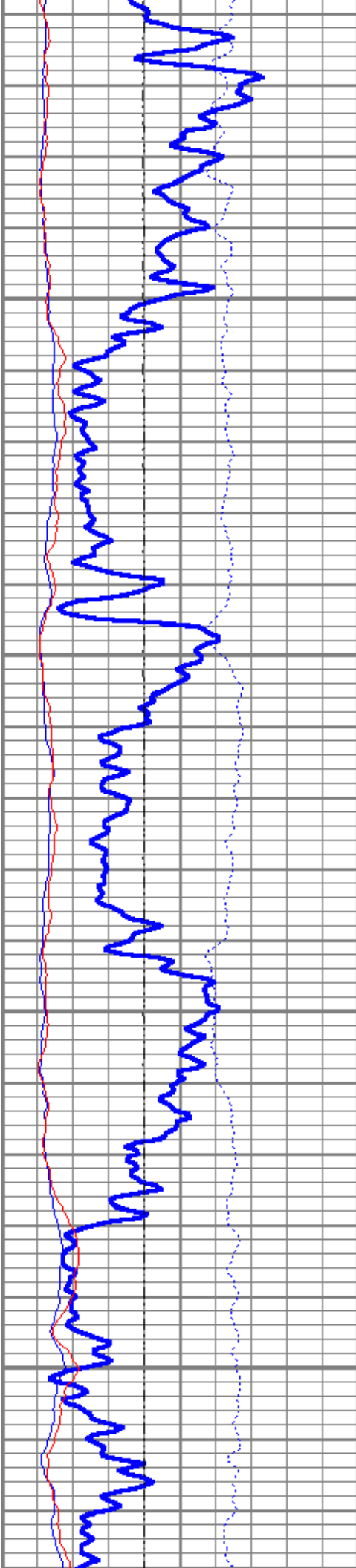


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5900

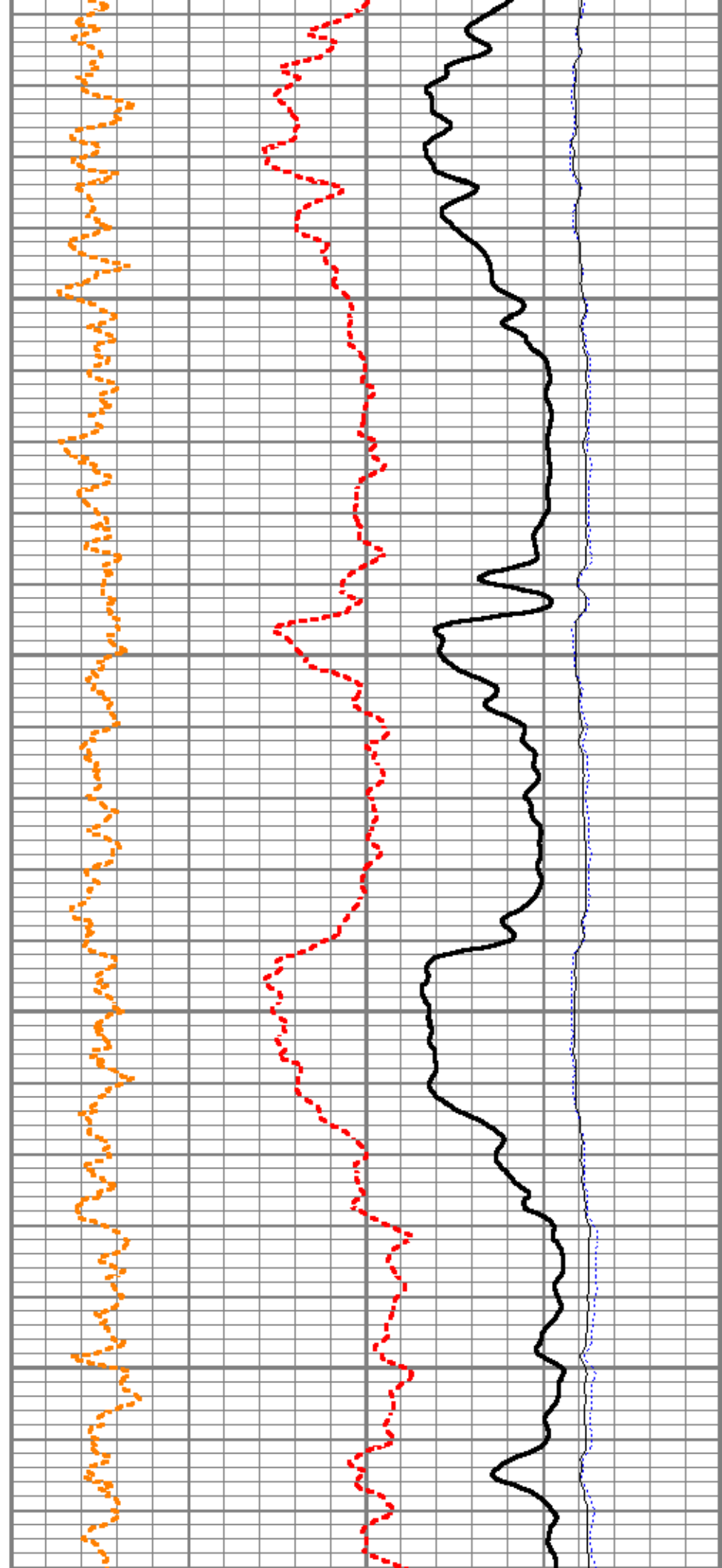
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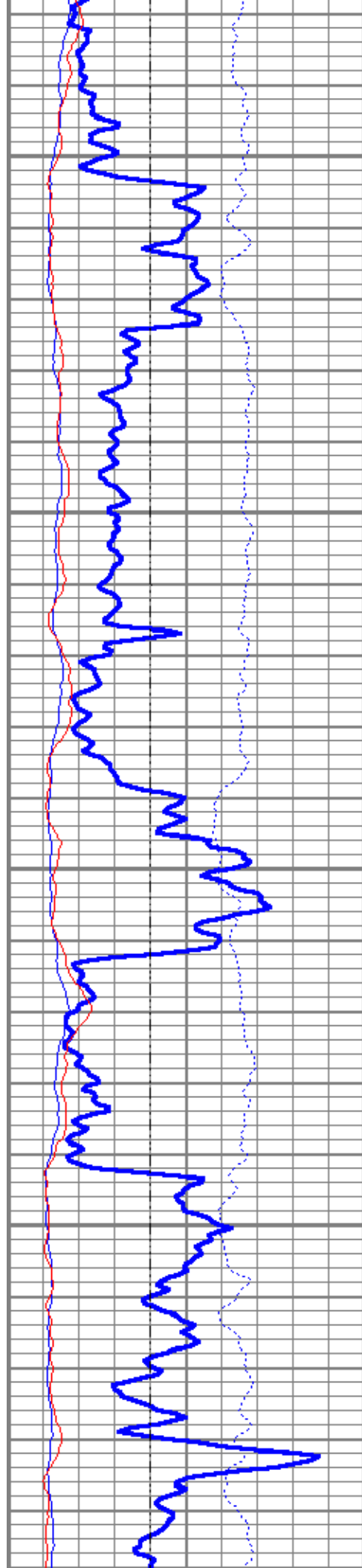




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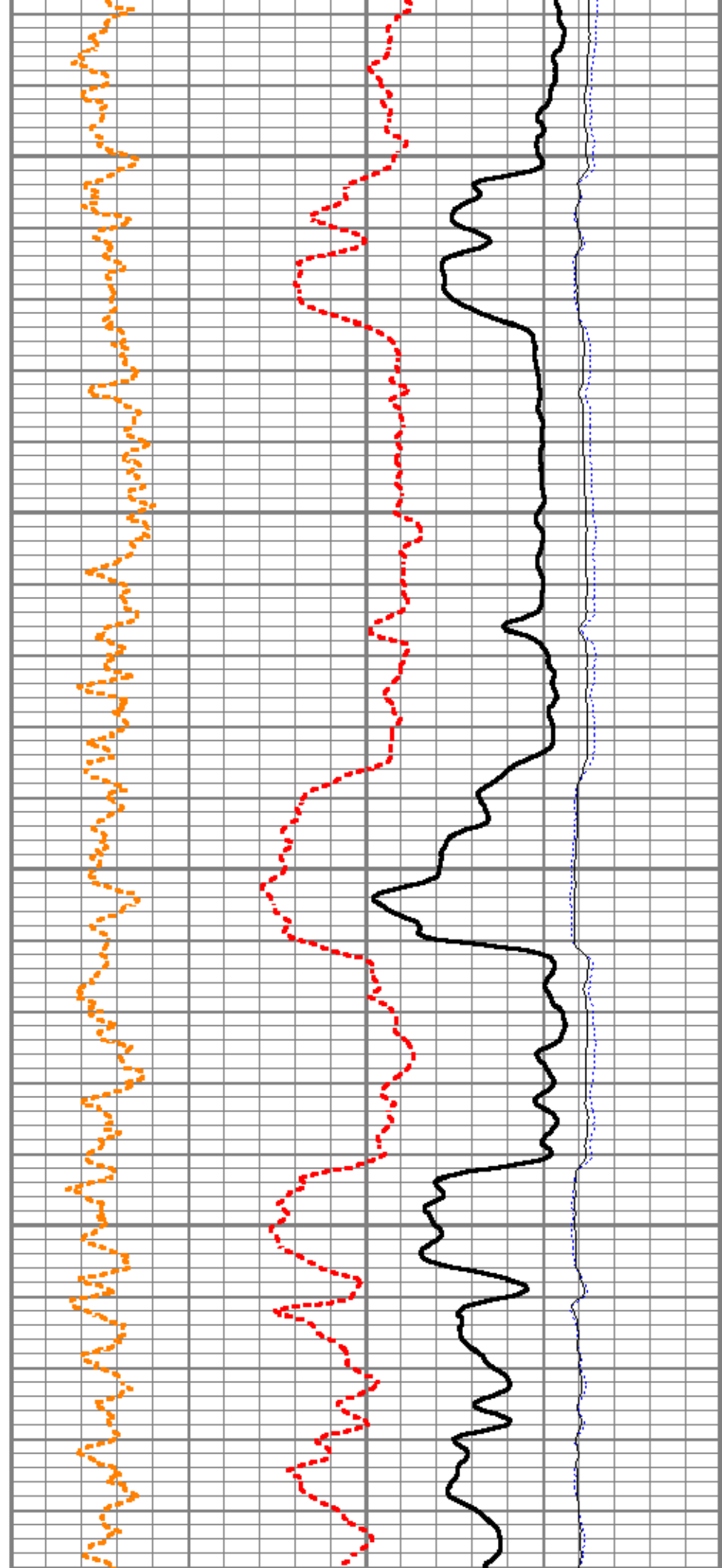
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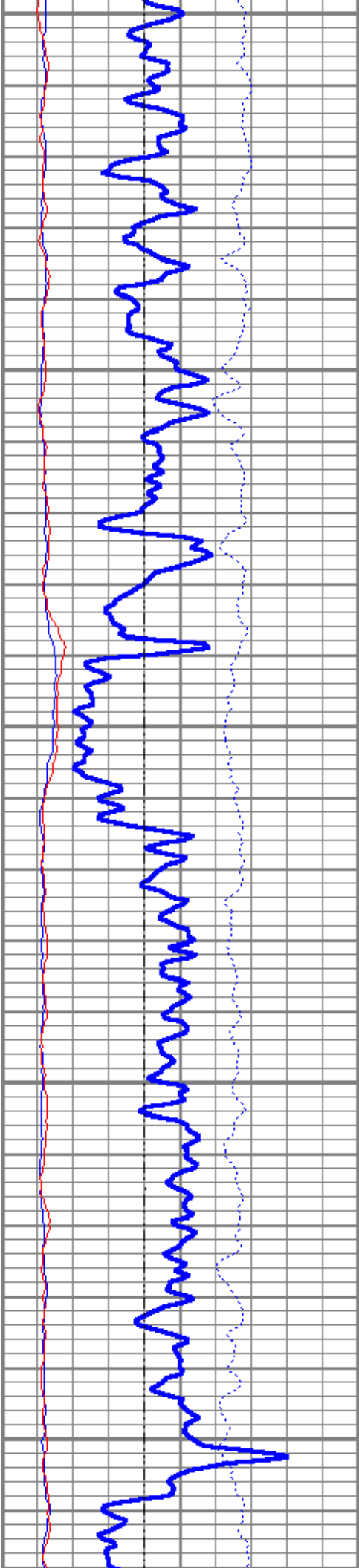




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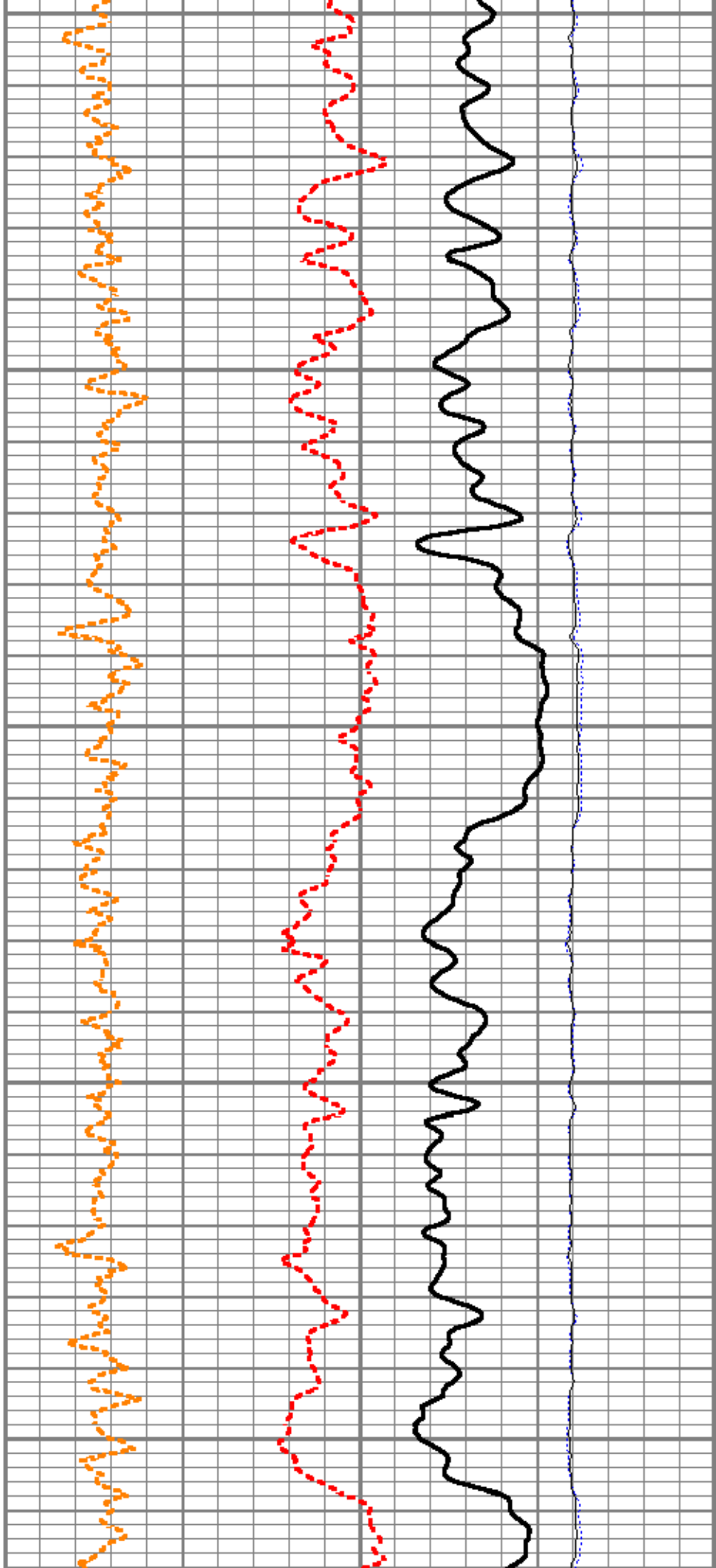
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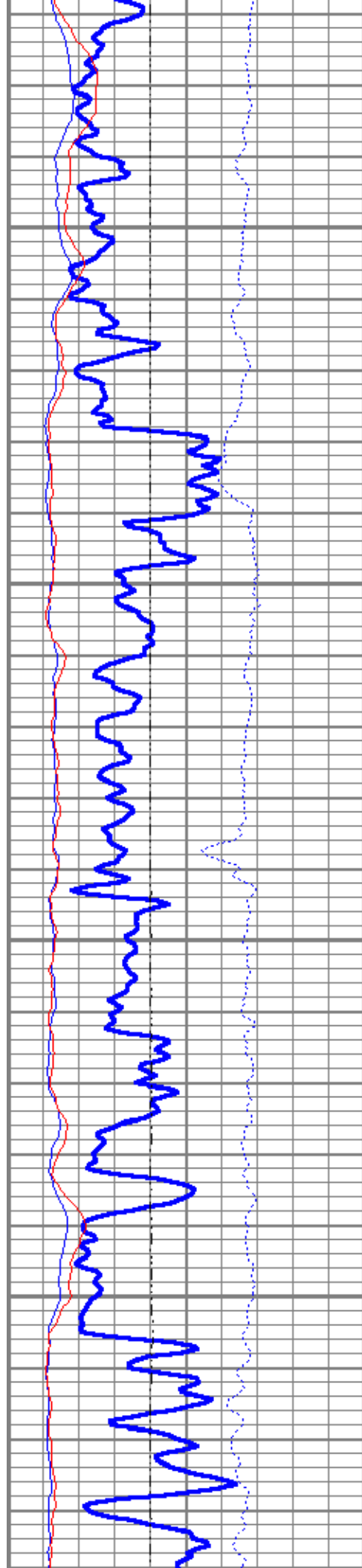




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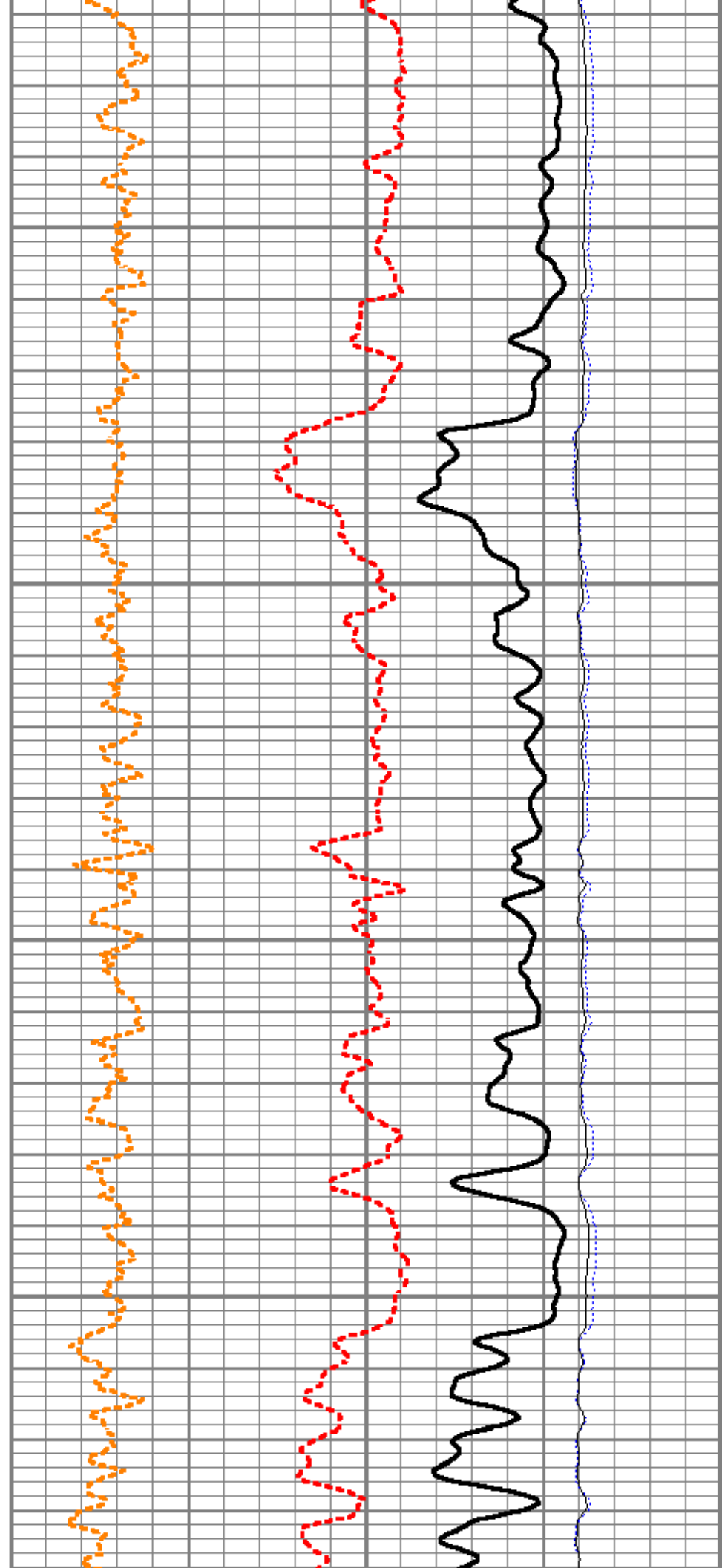
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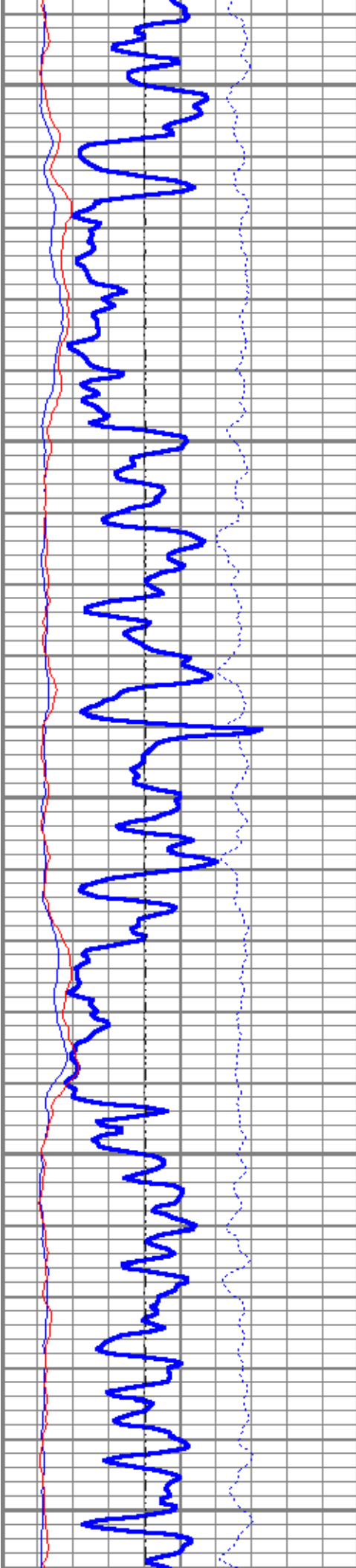




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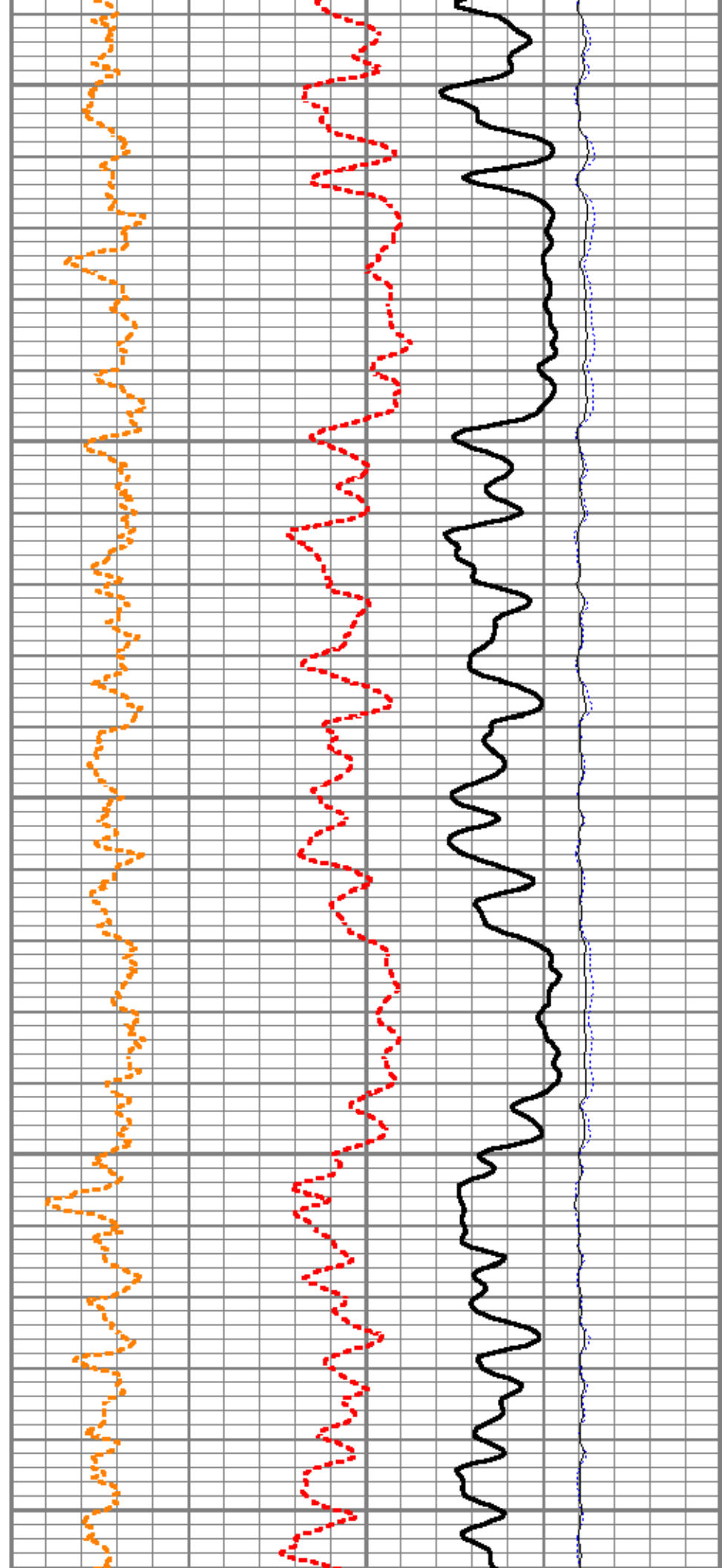


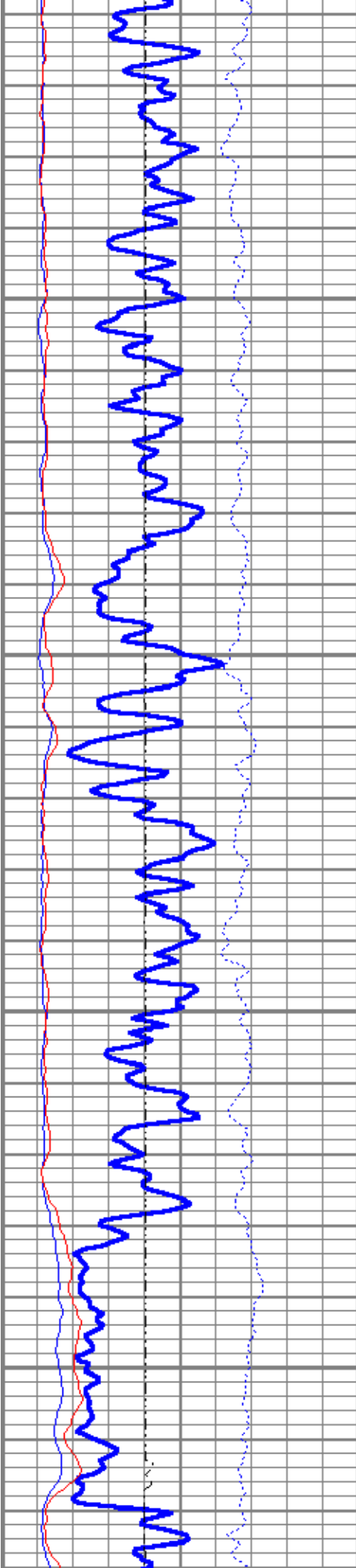


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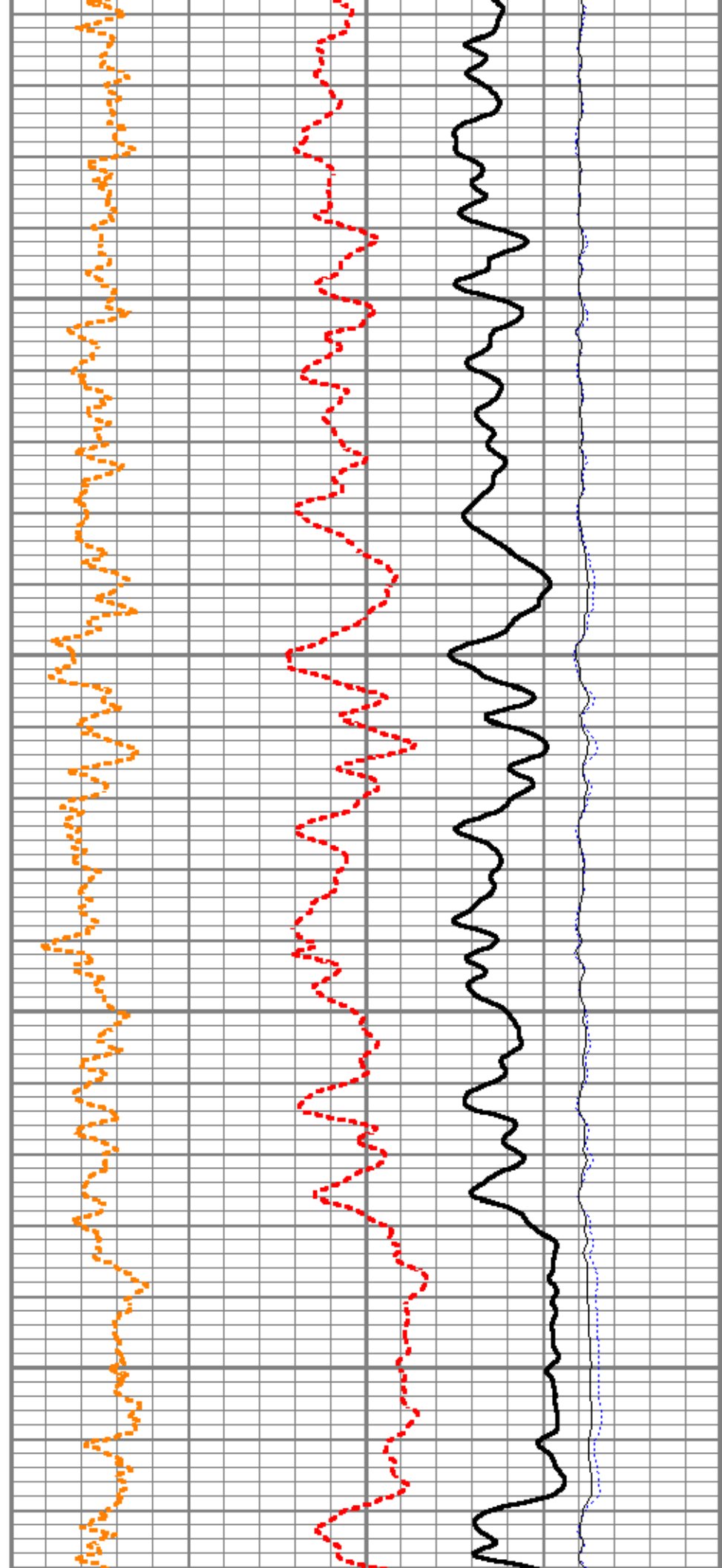
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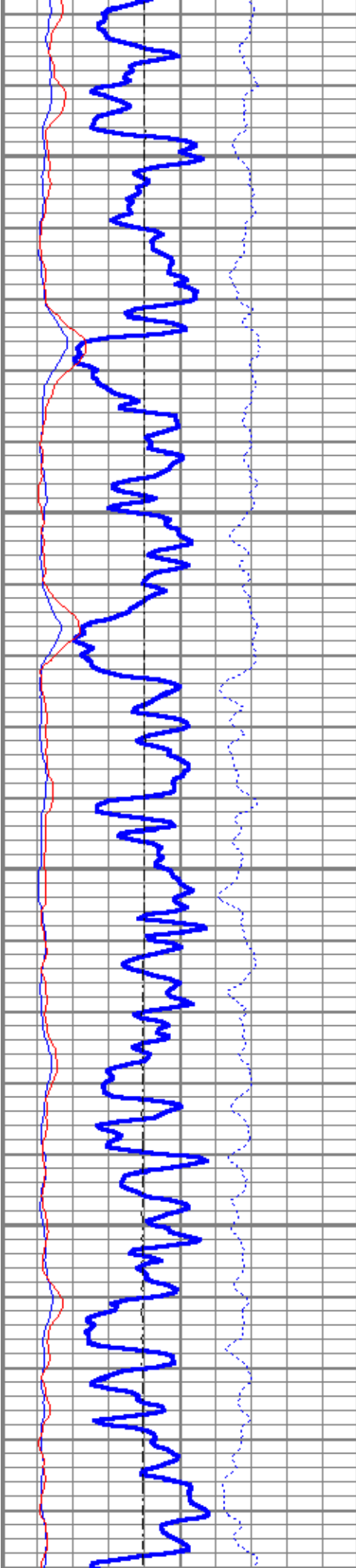




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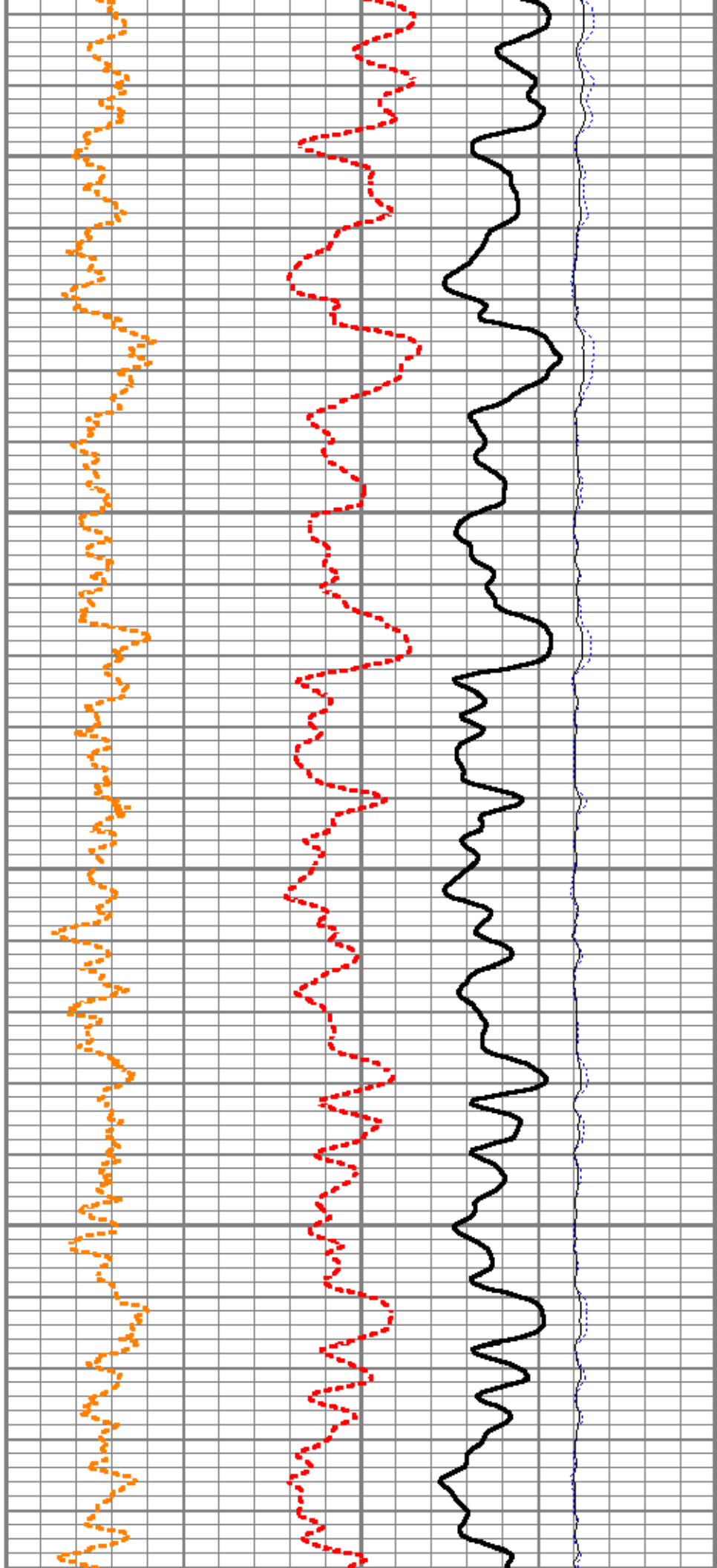
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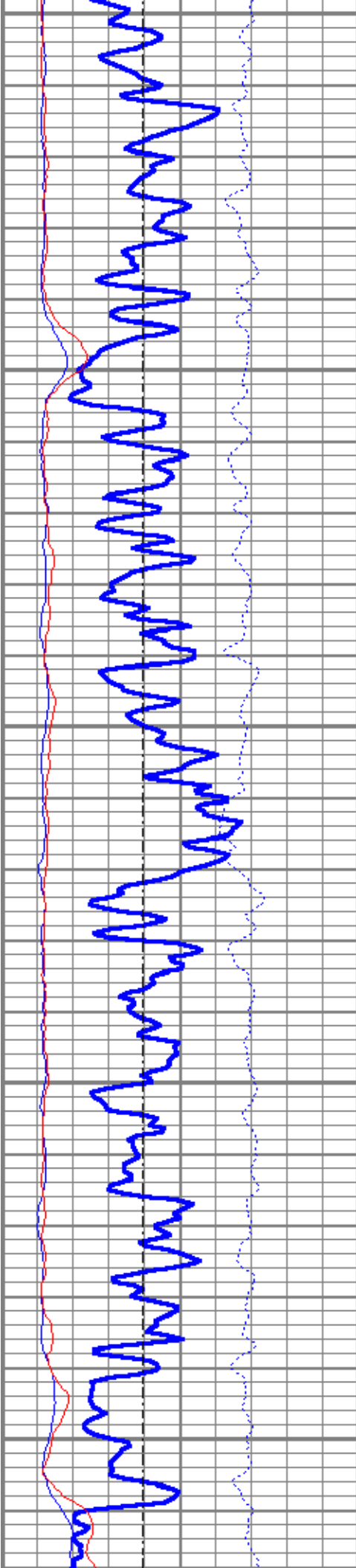




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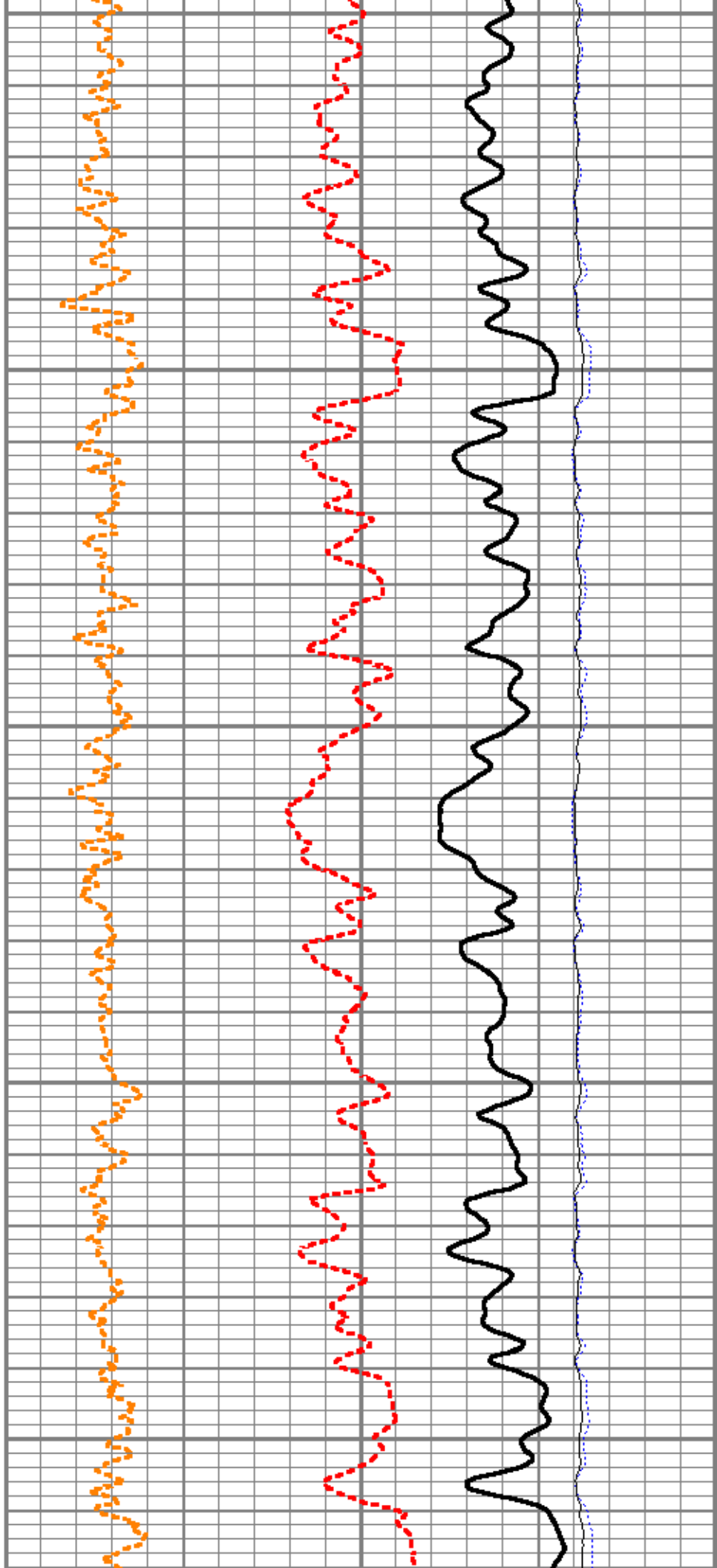
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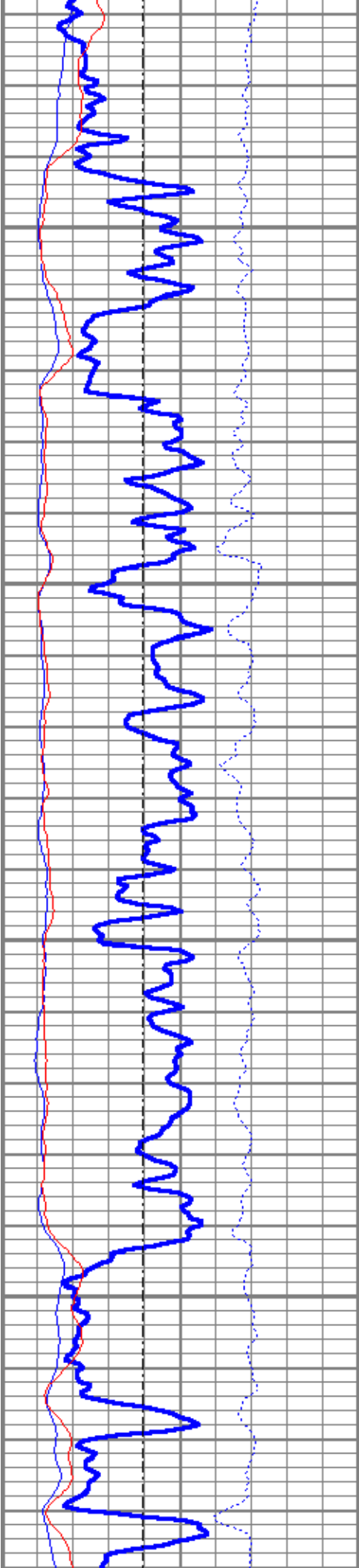




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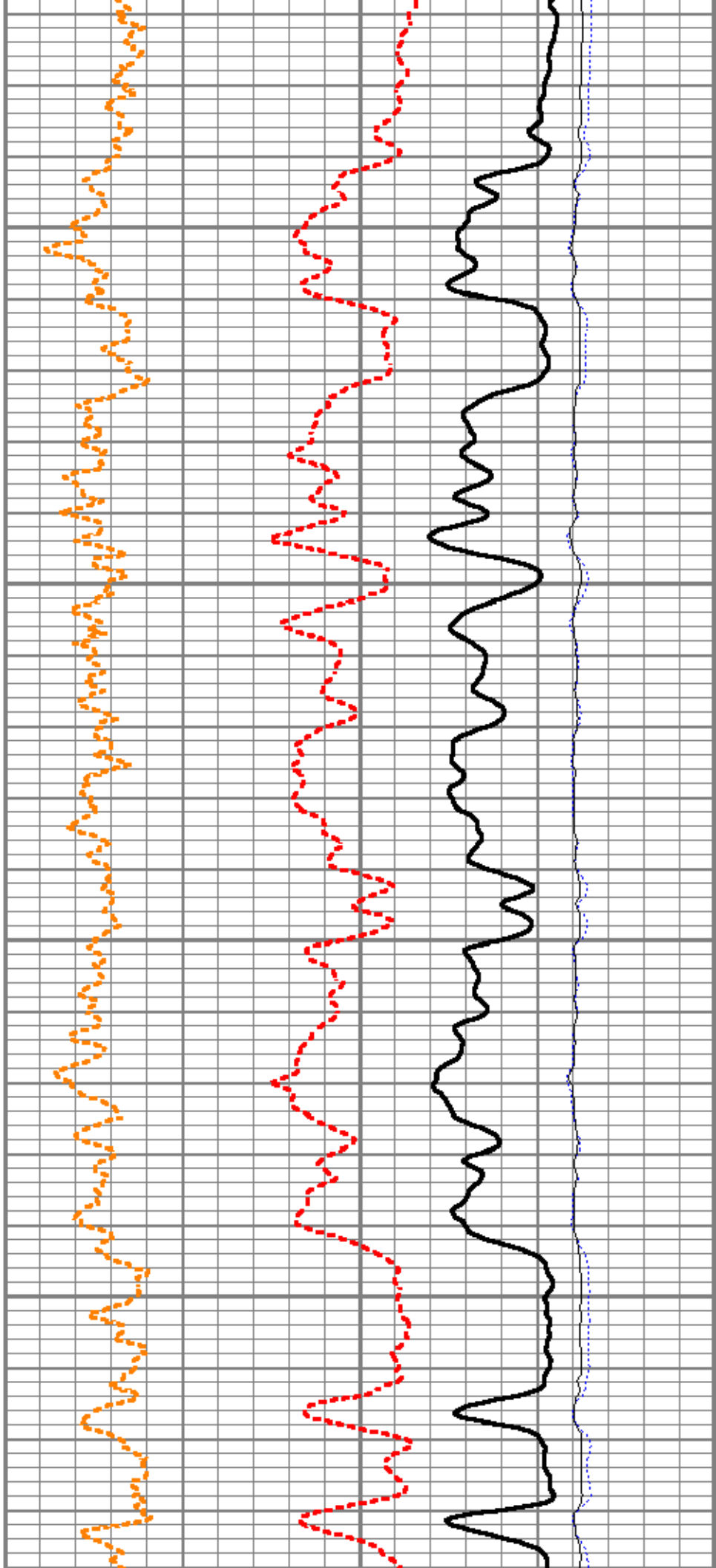
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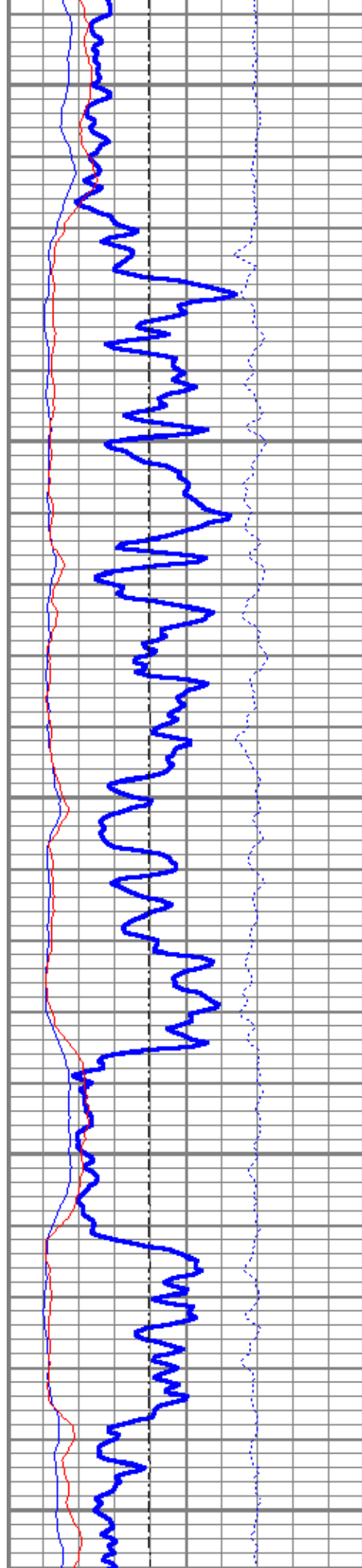




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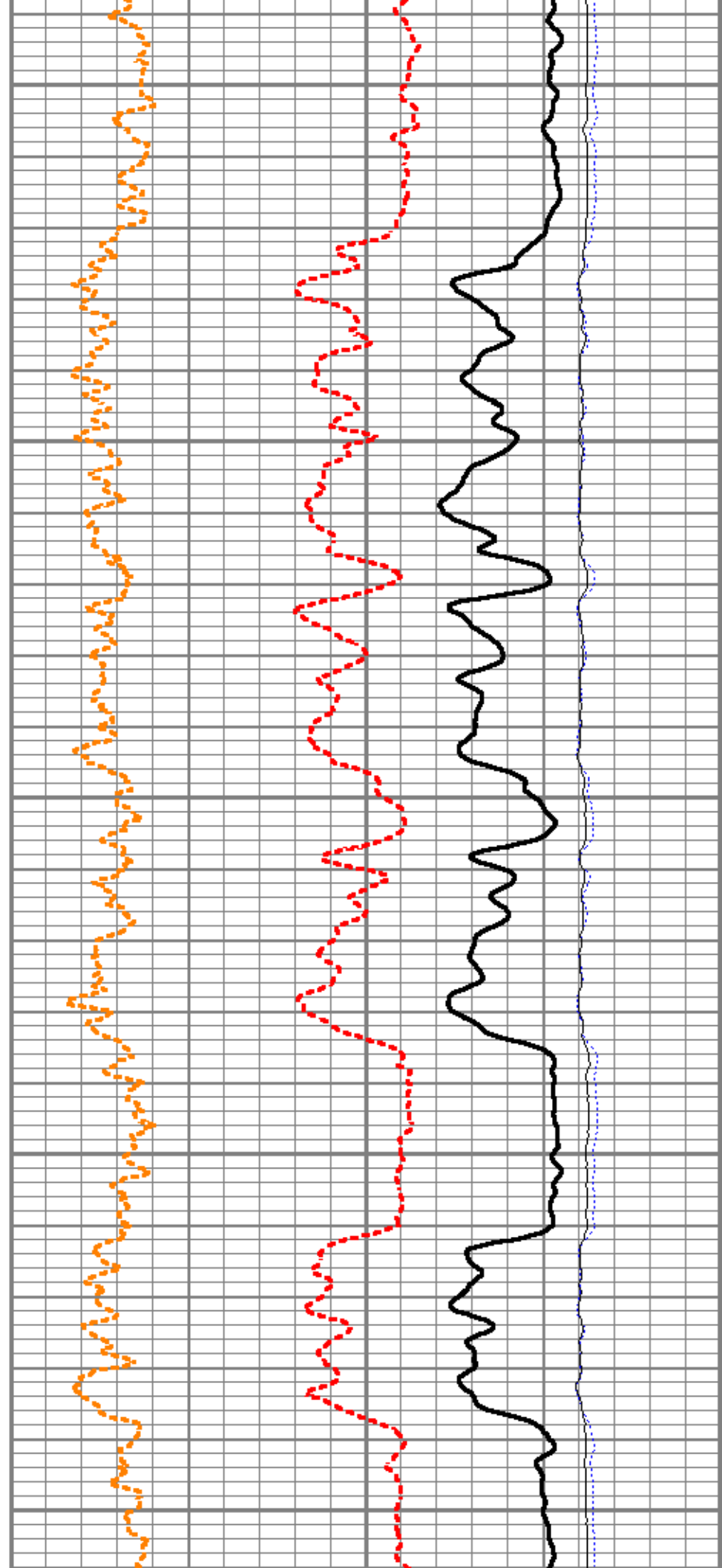


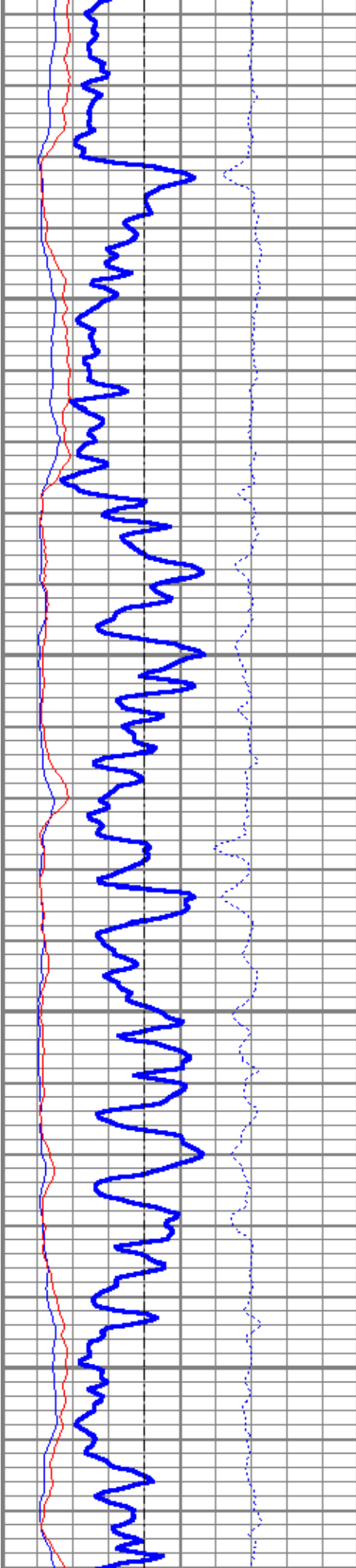


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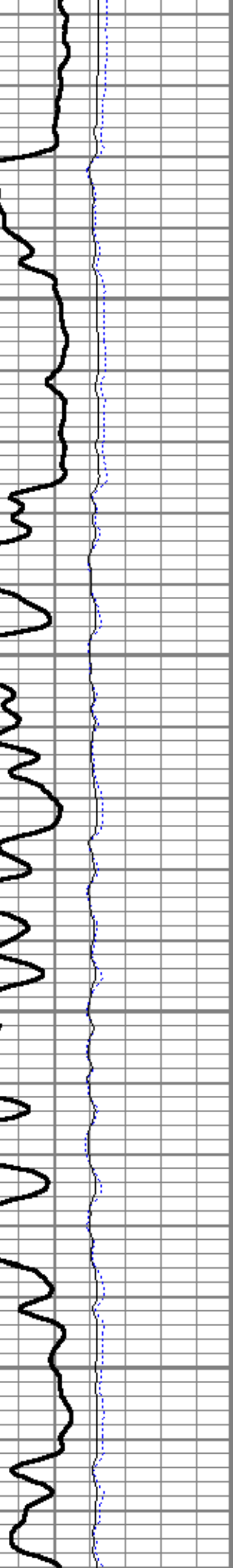
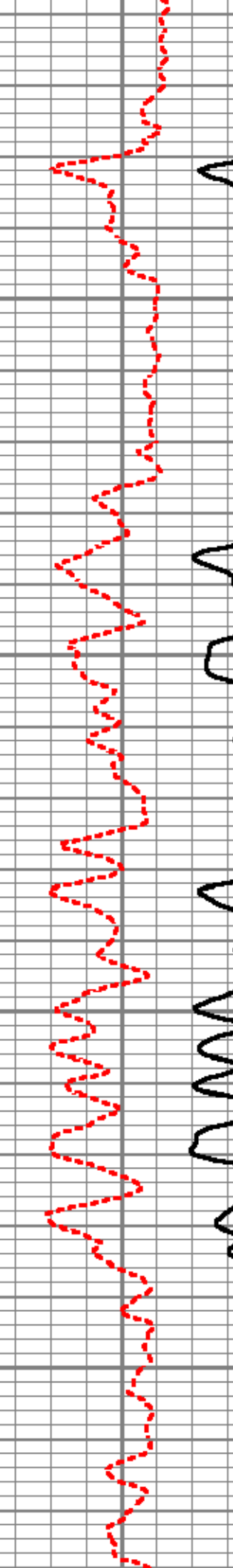
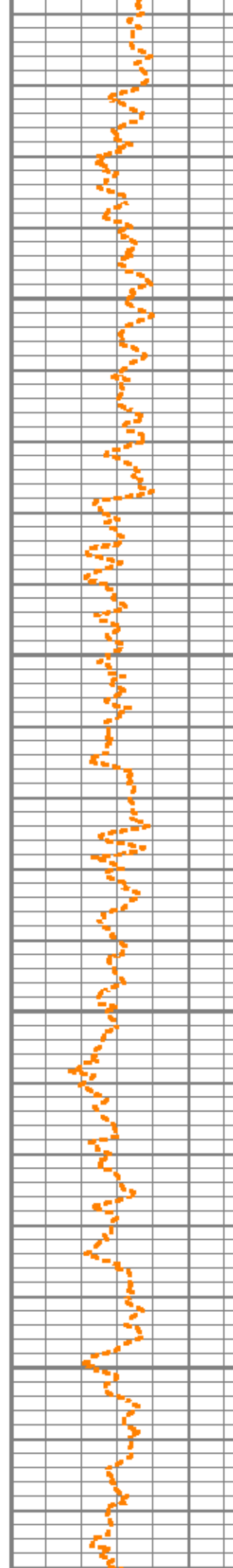
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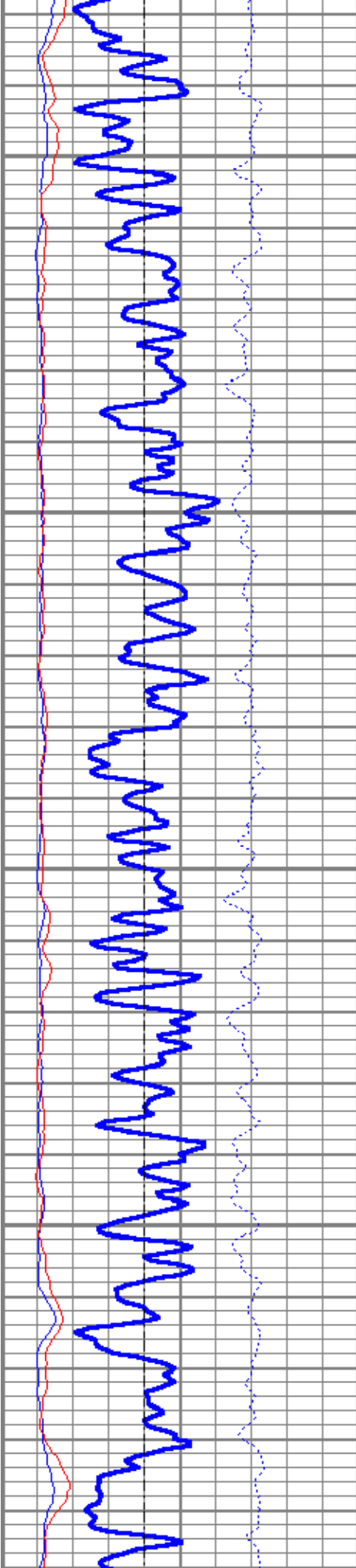




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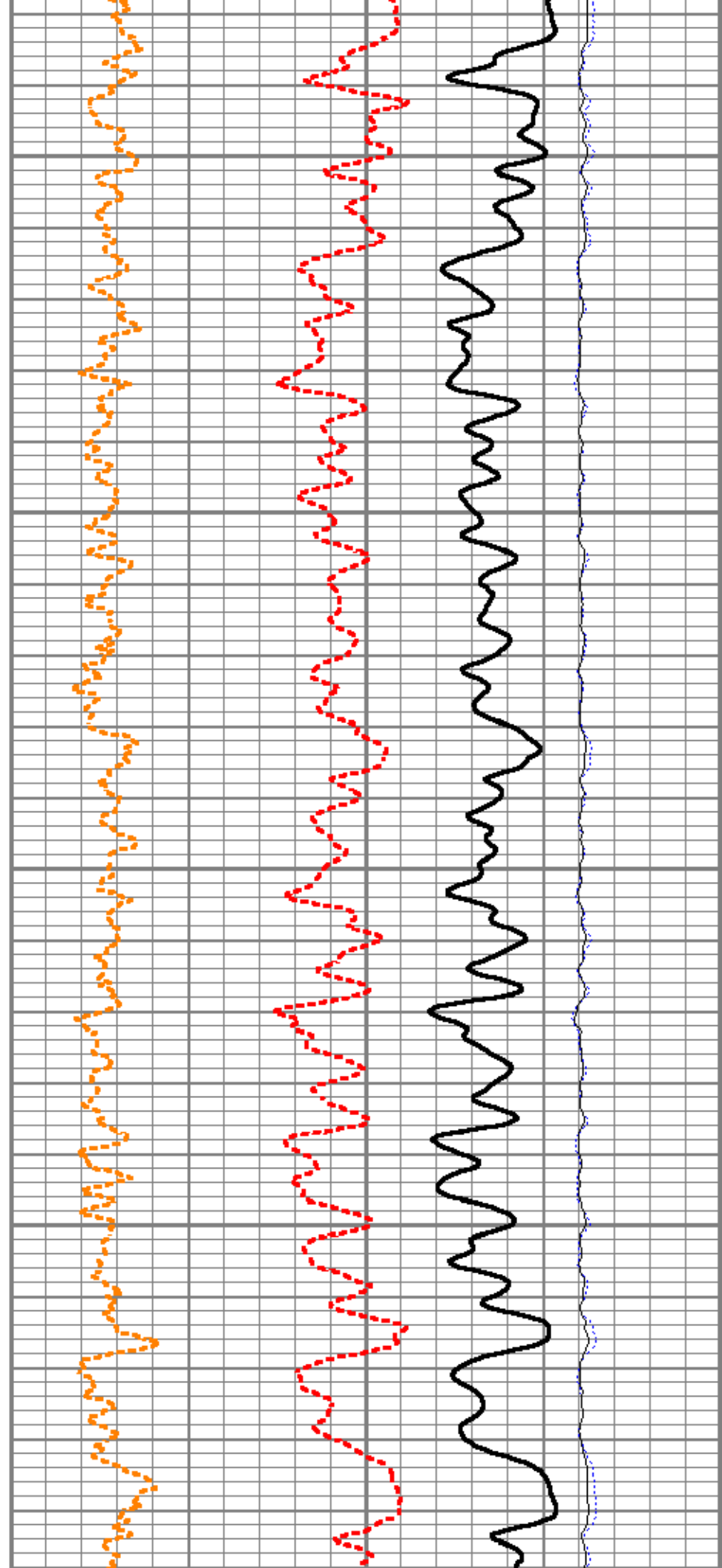
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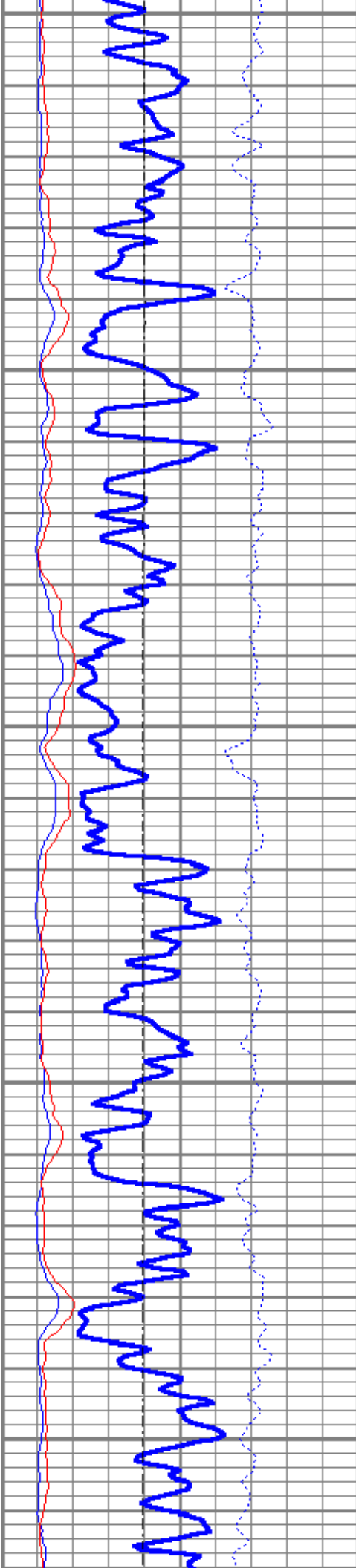




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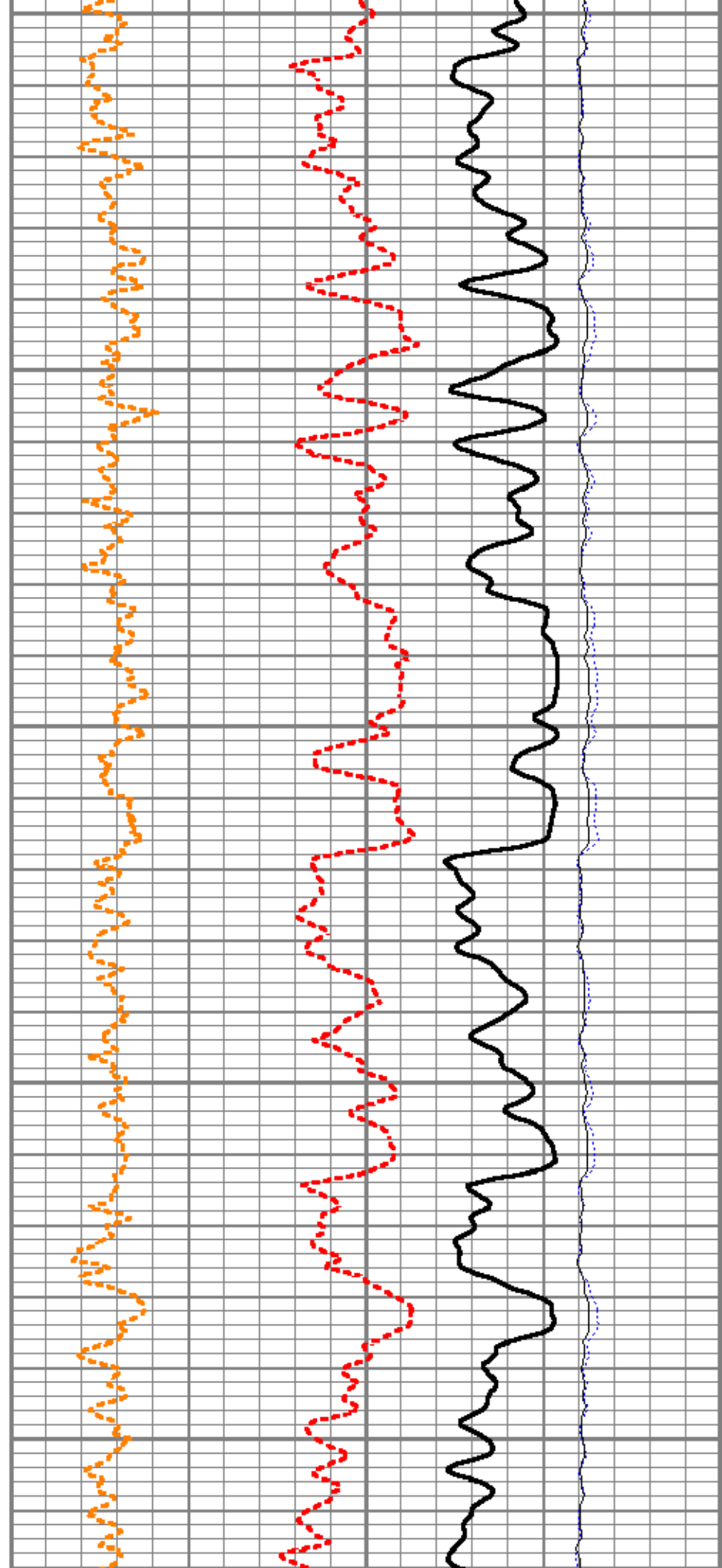
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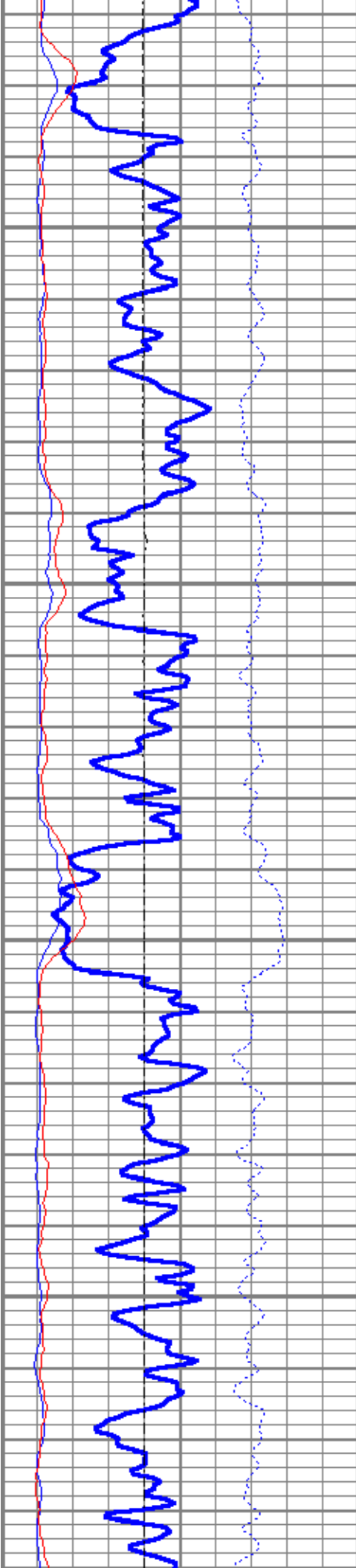




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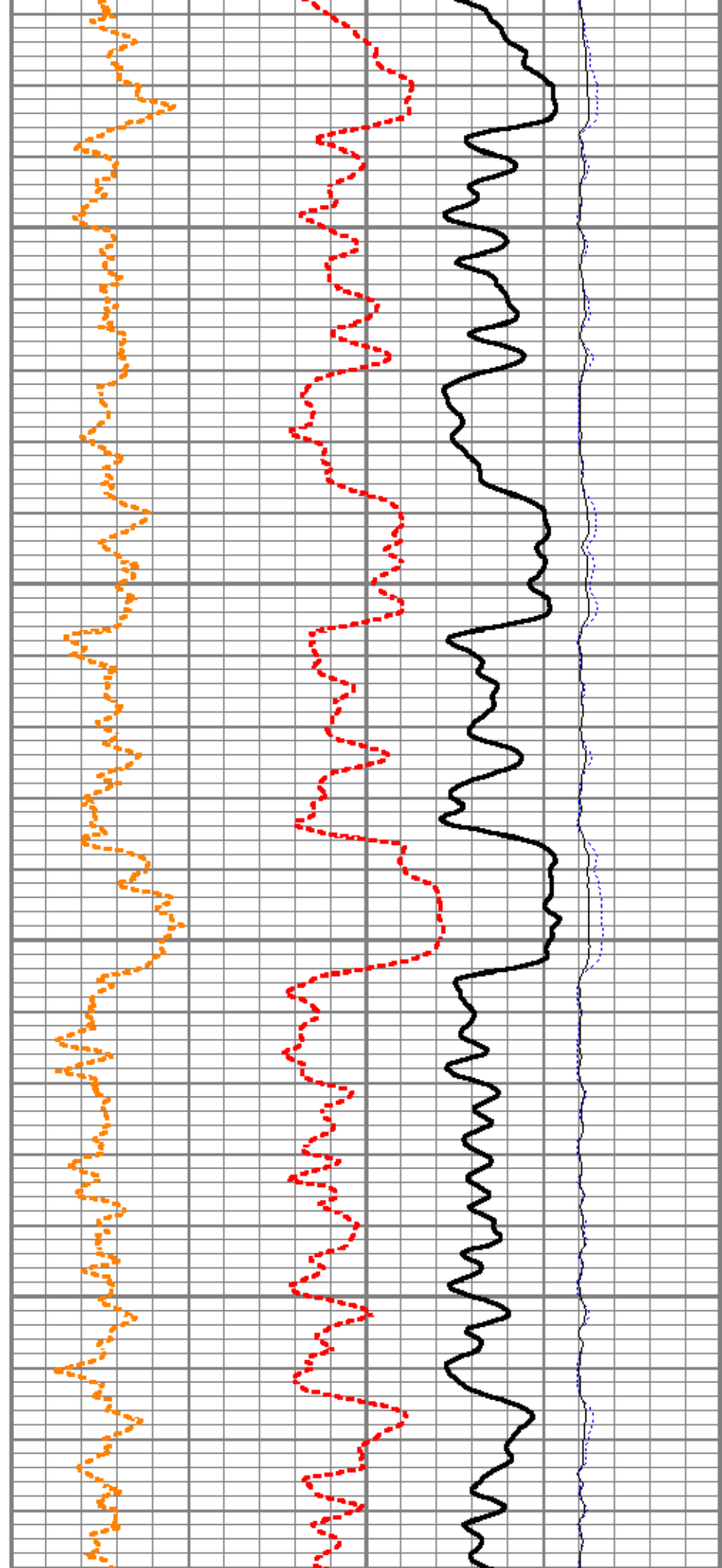
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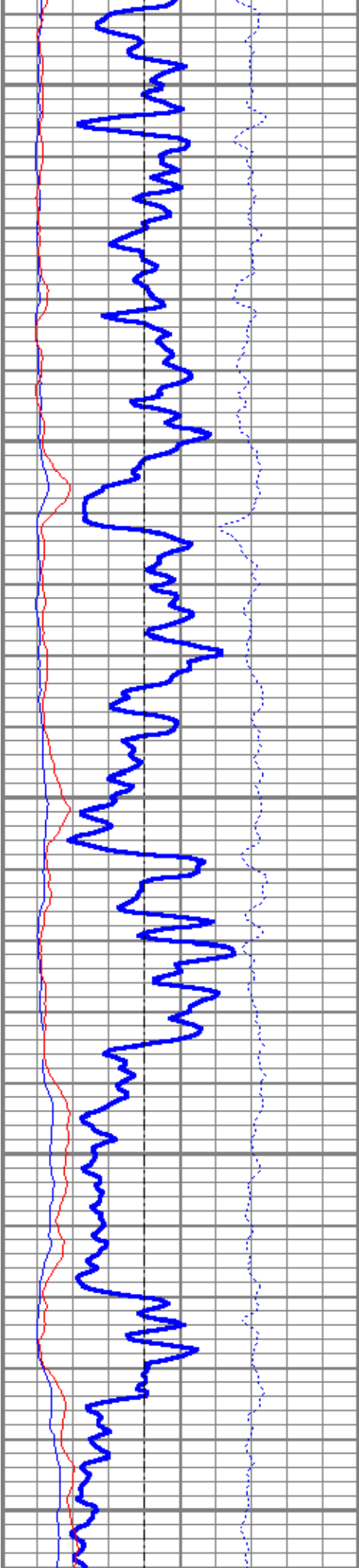




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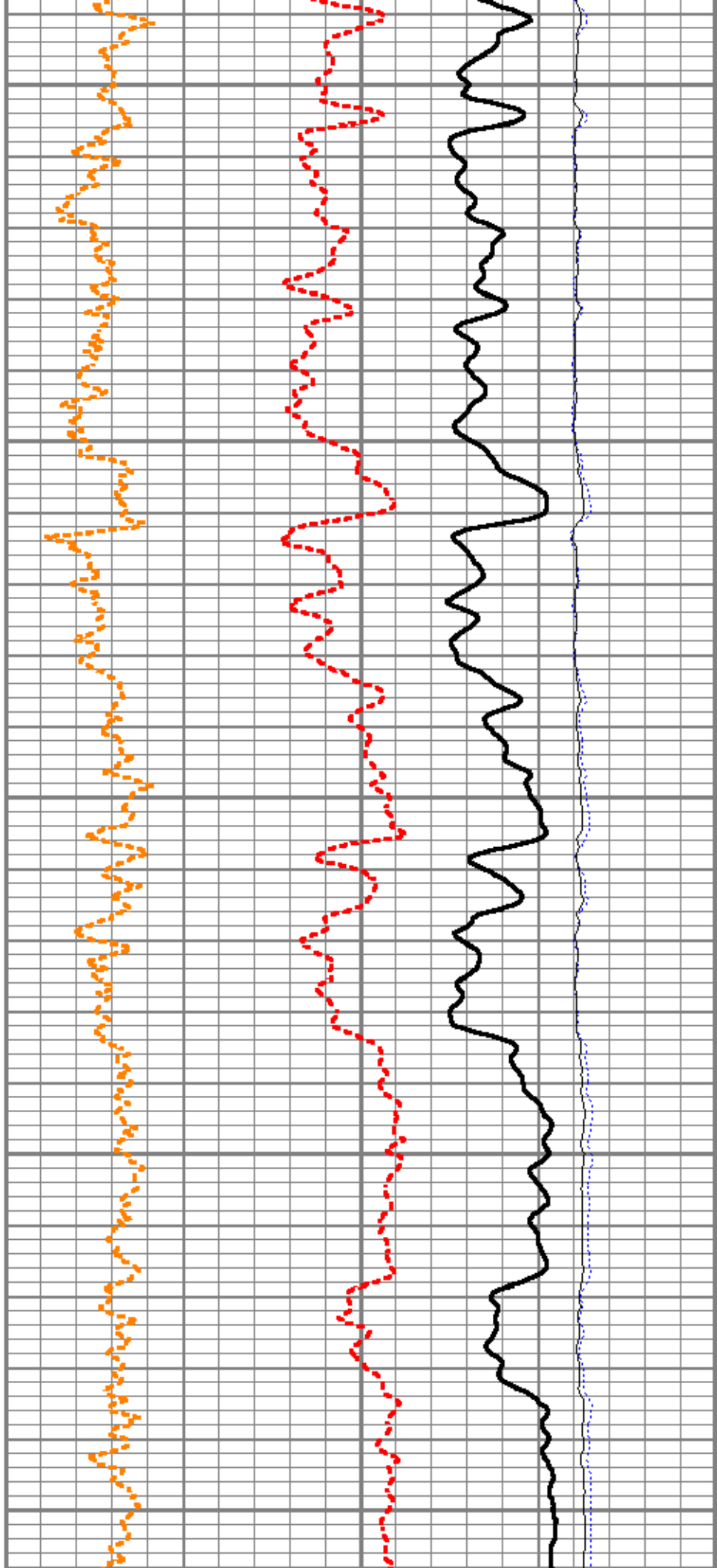


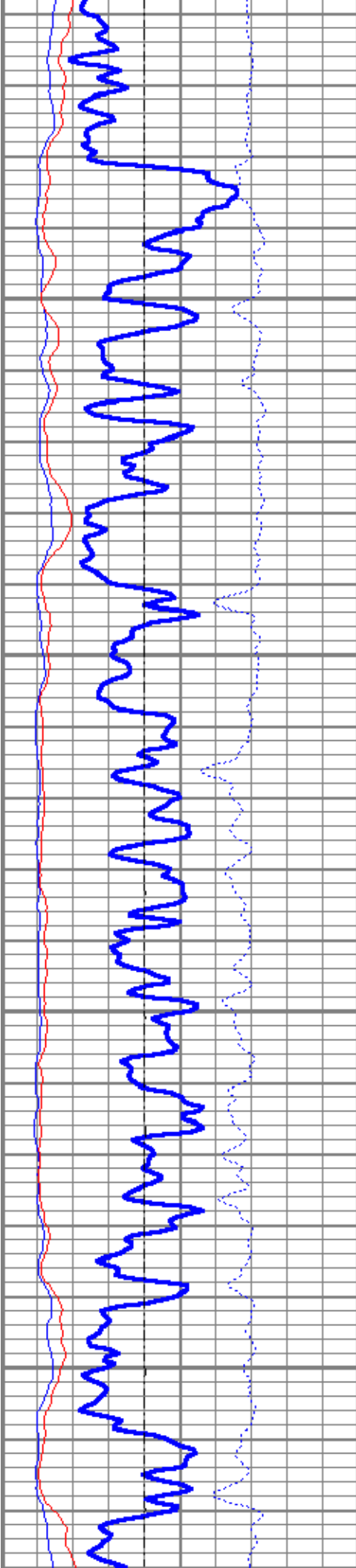


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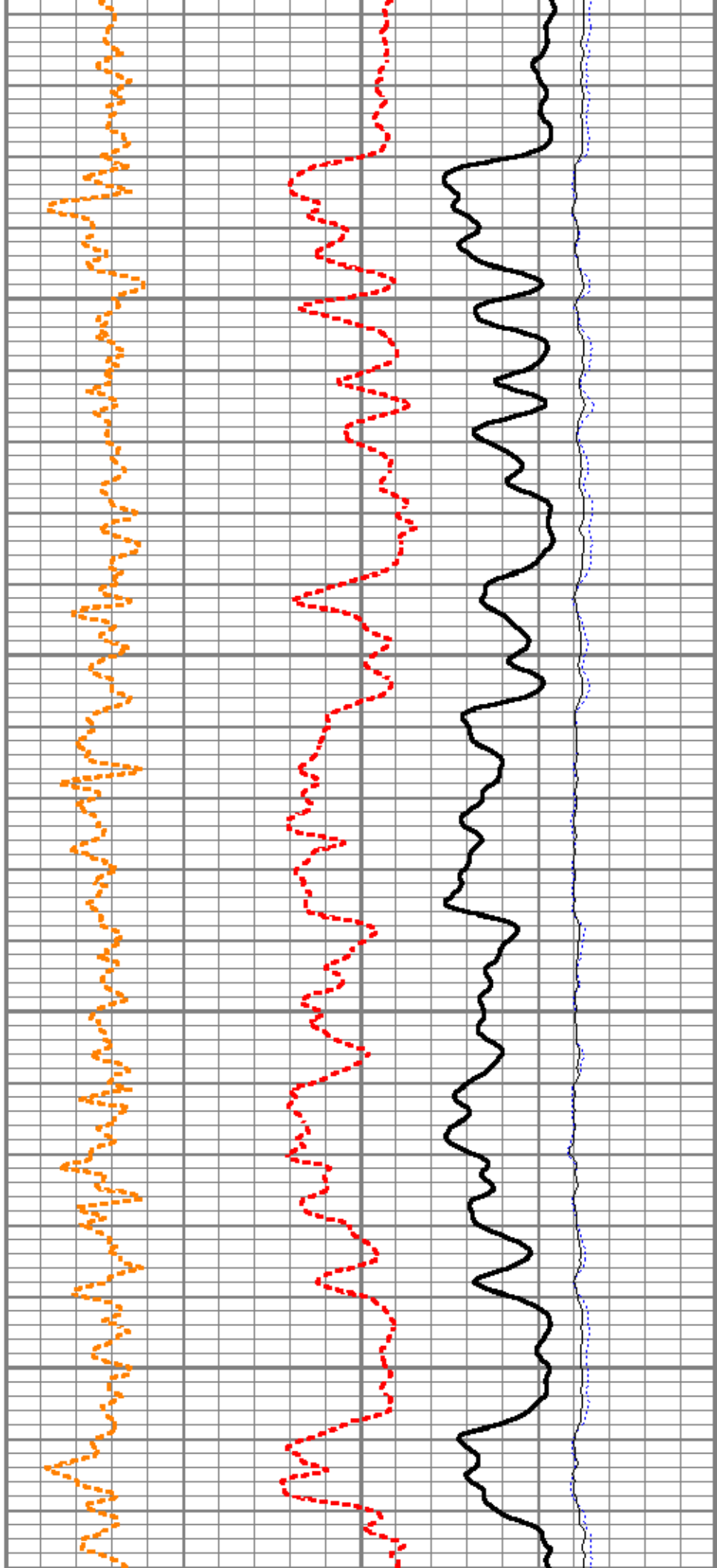
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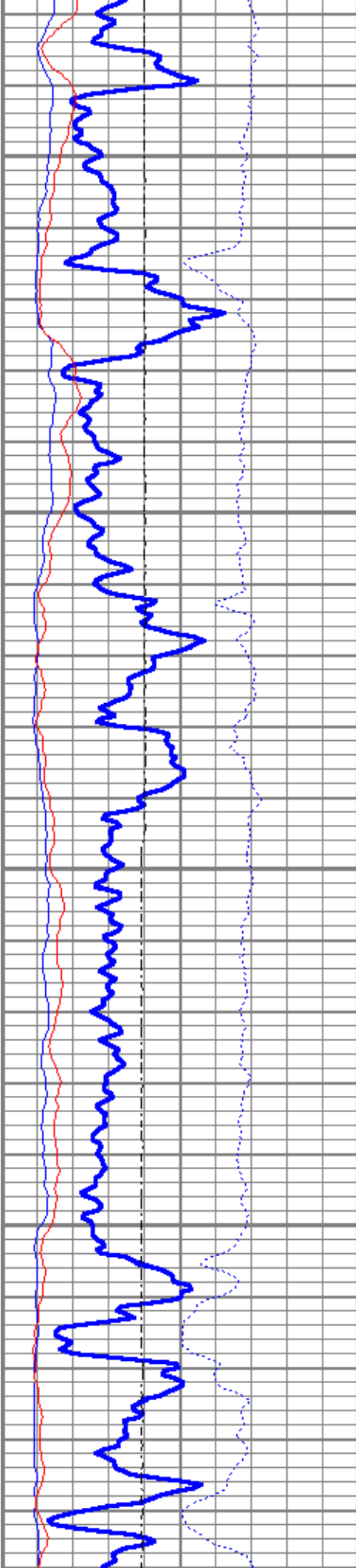




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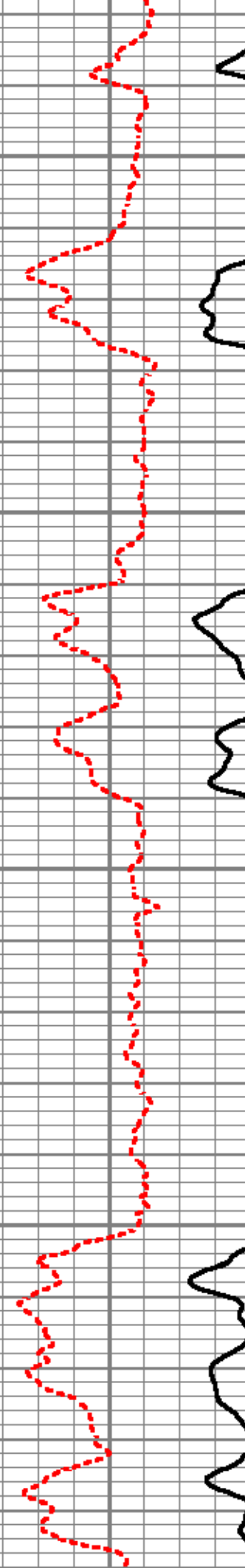
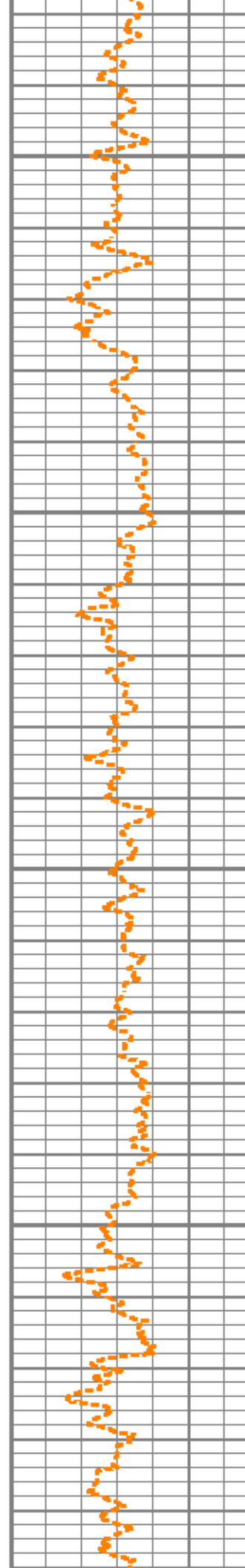
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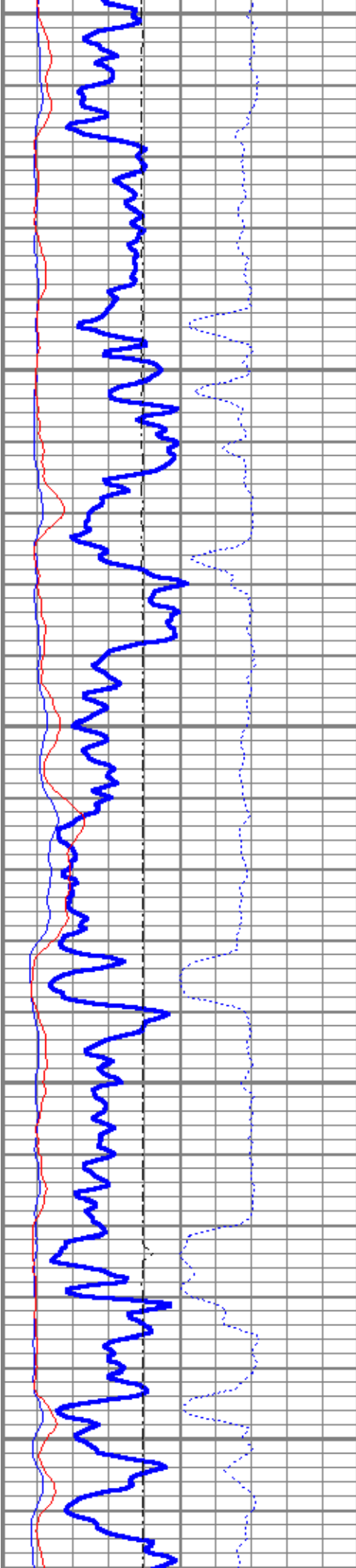




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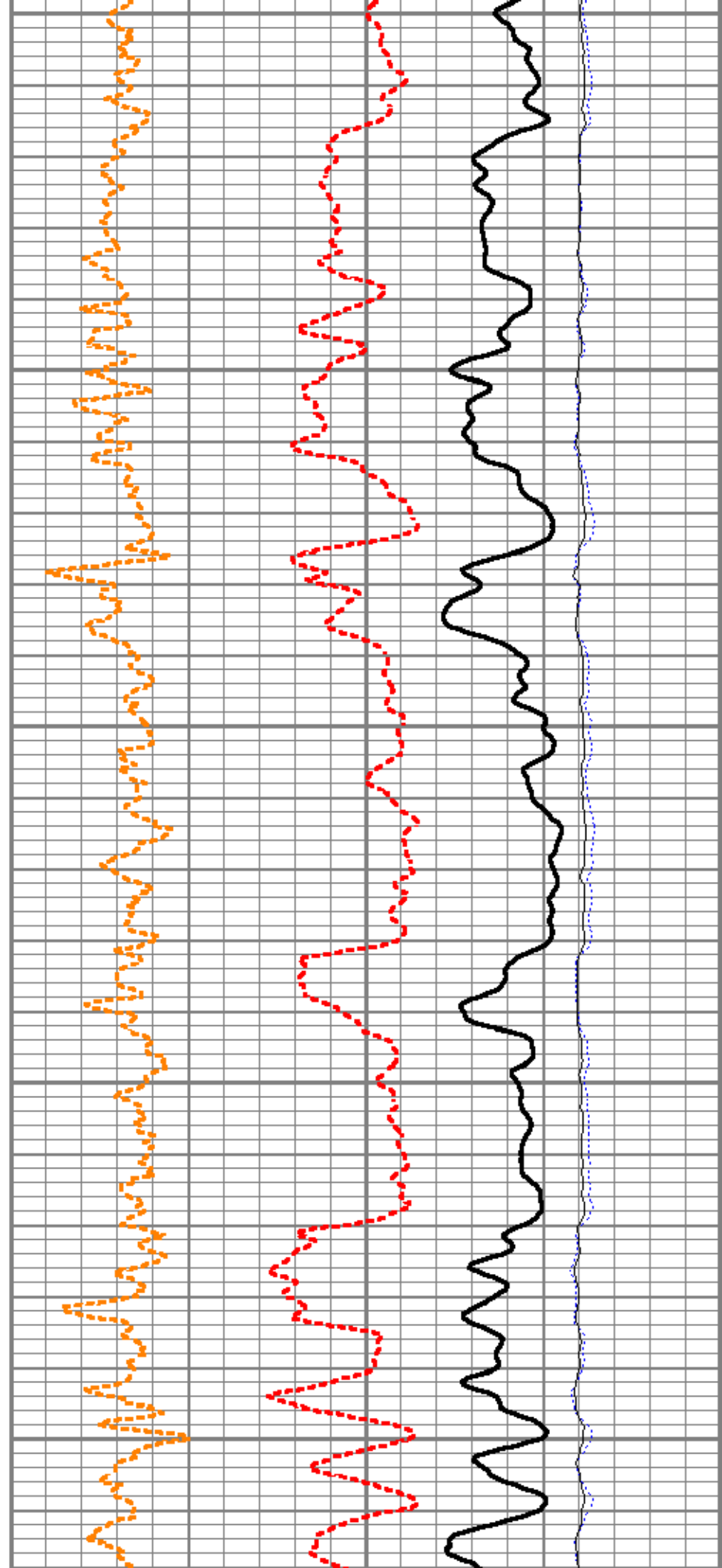
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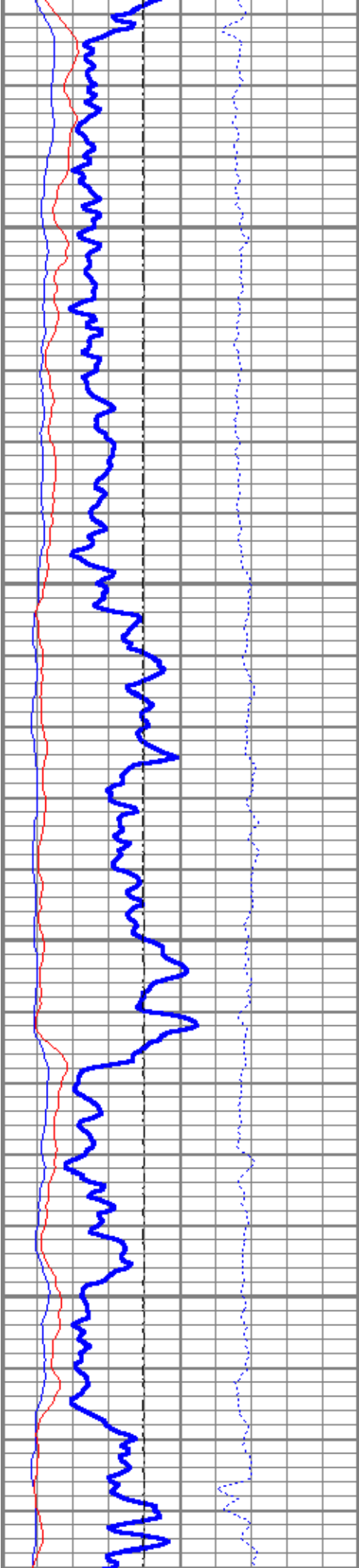




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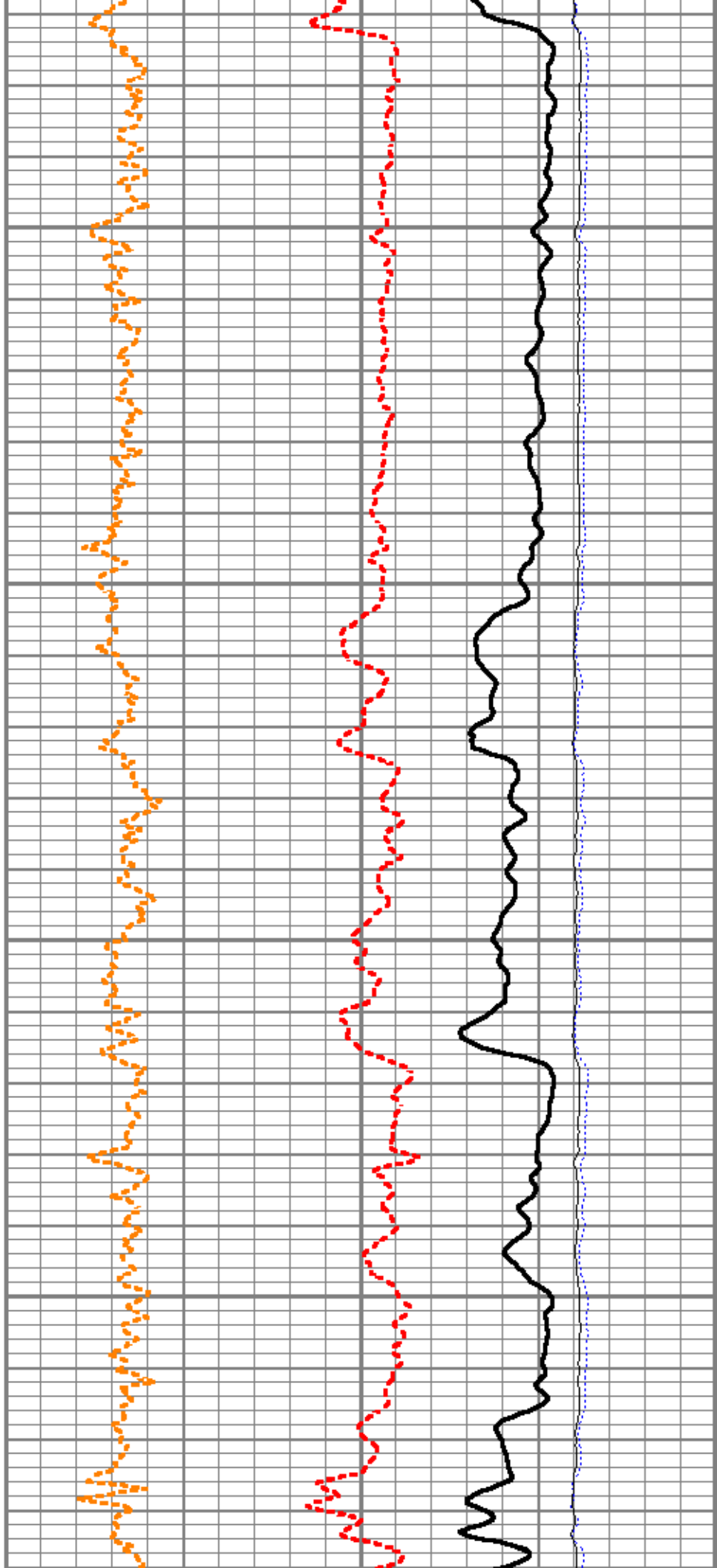
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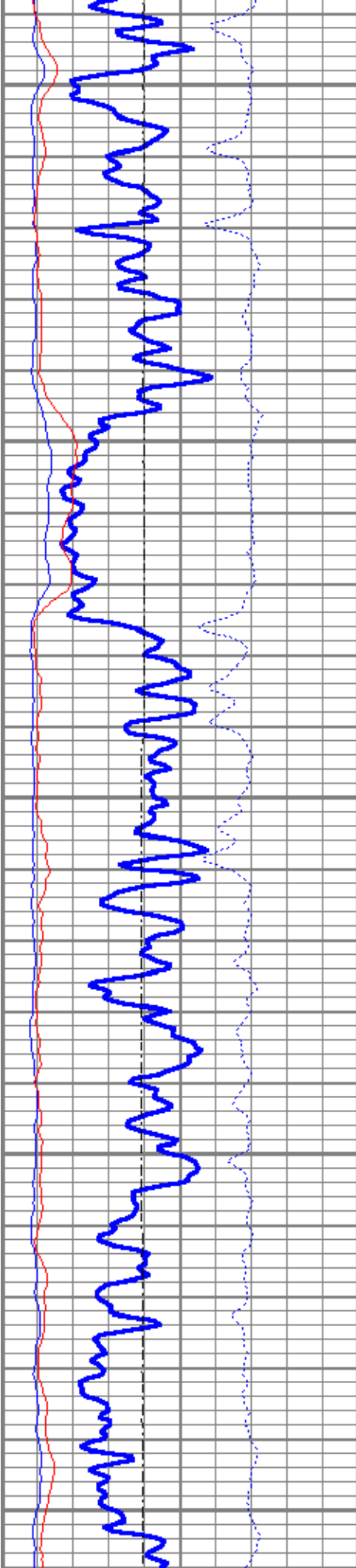




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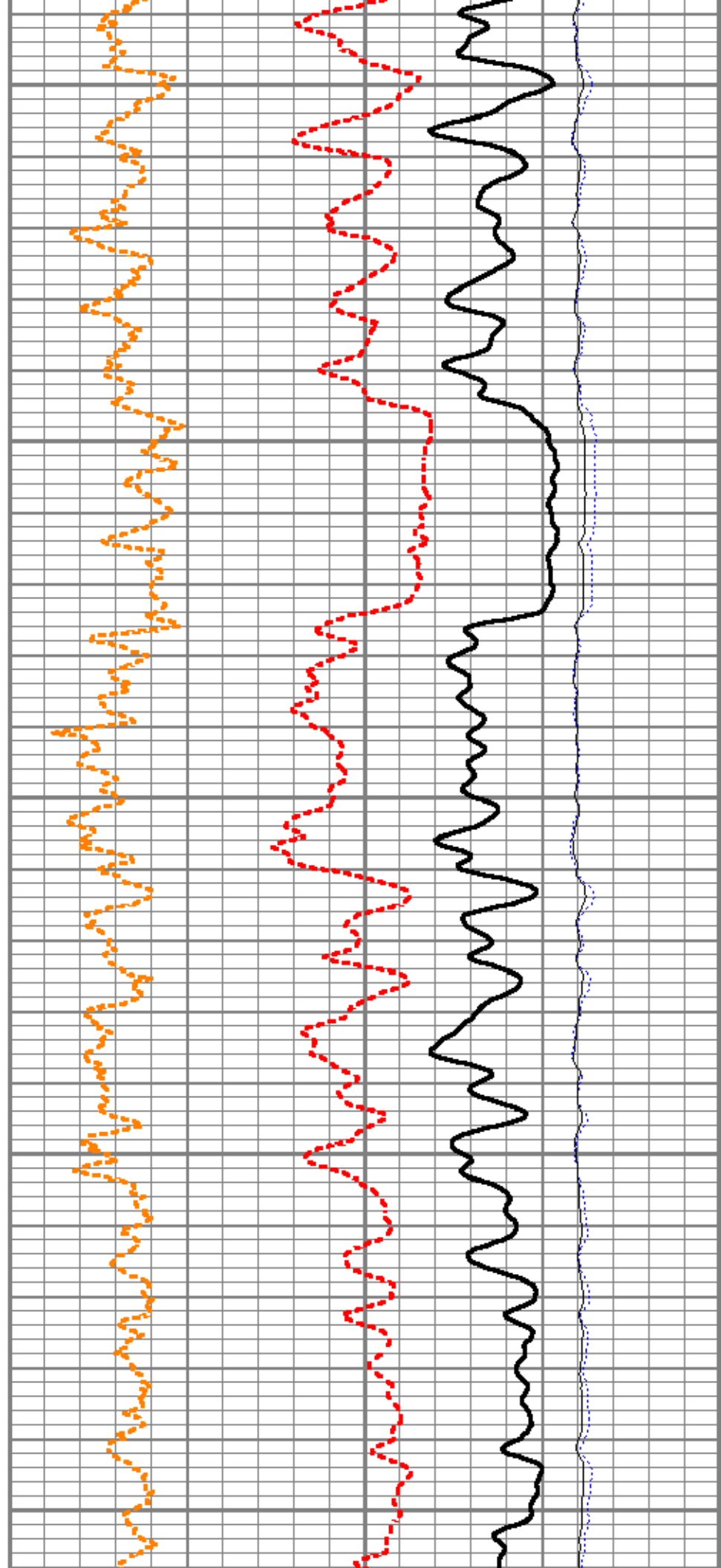


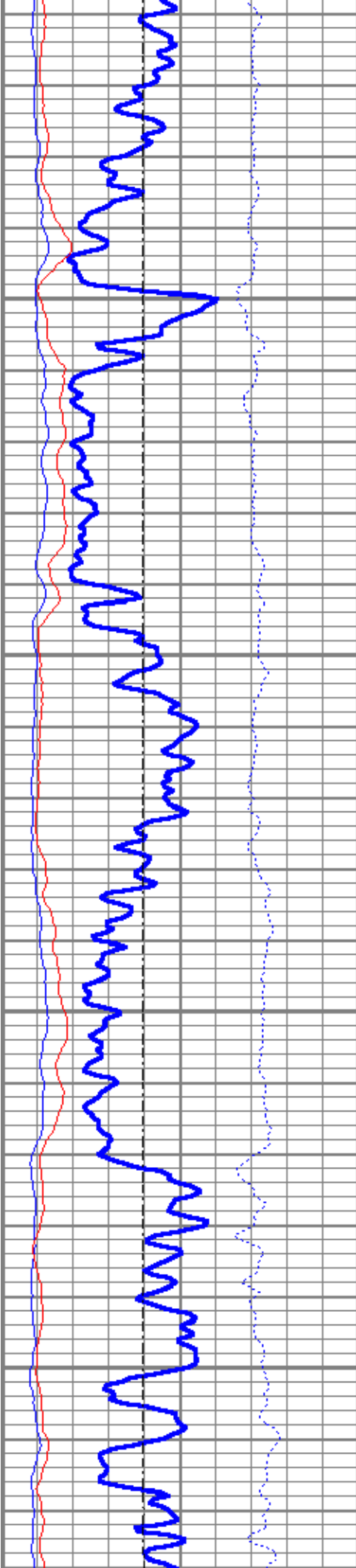


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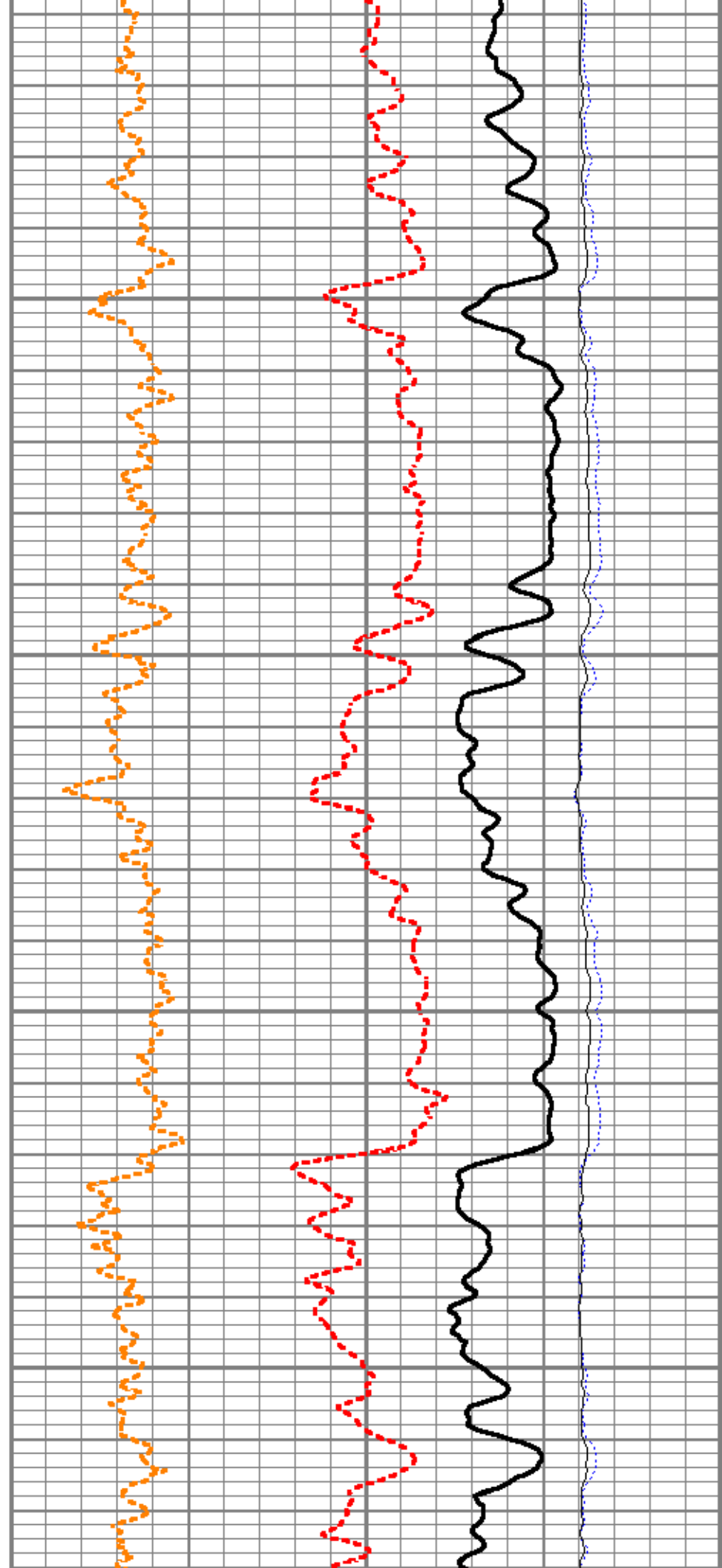
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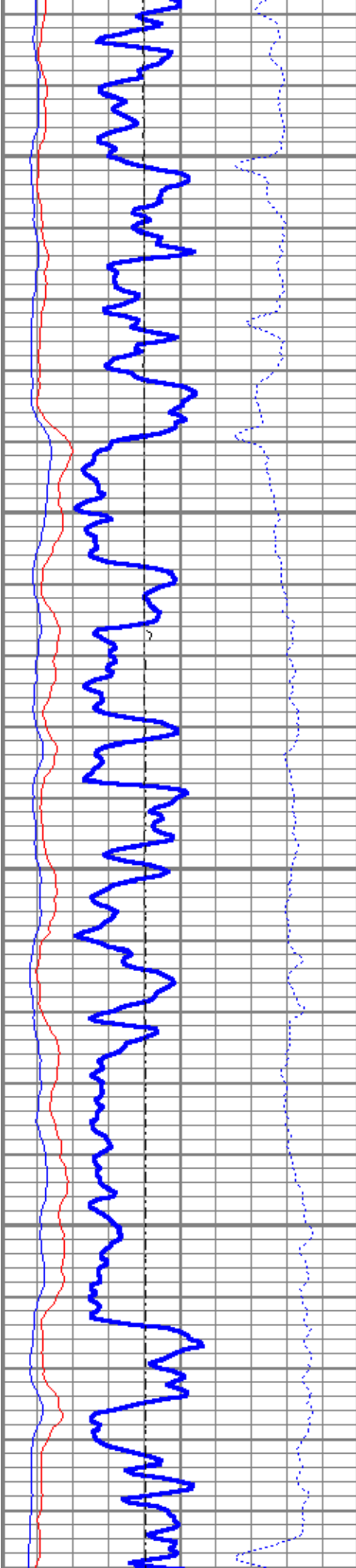




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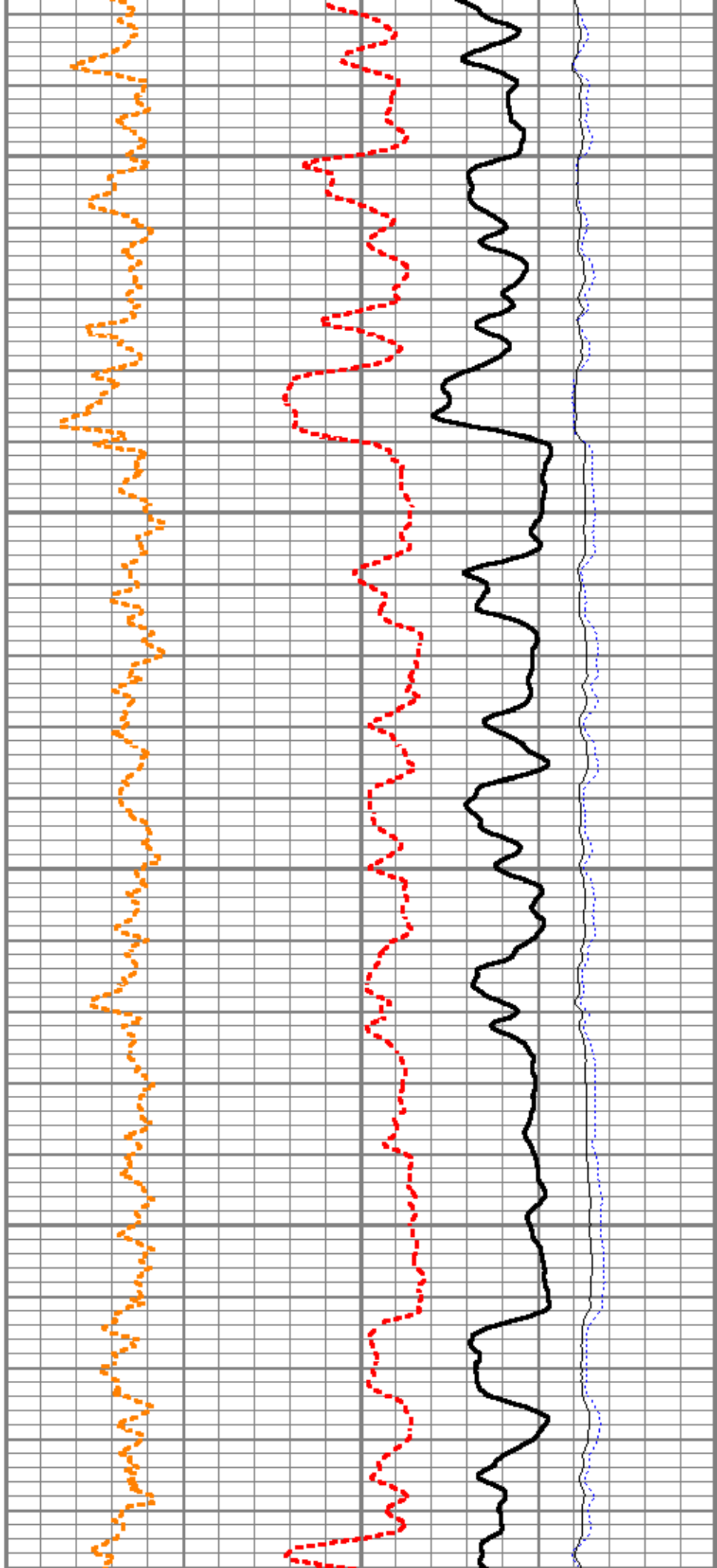
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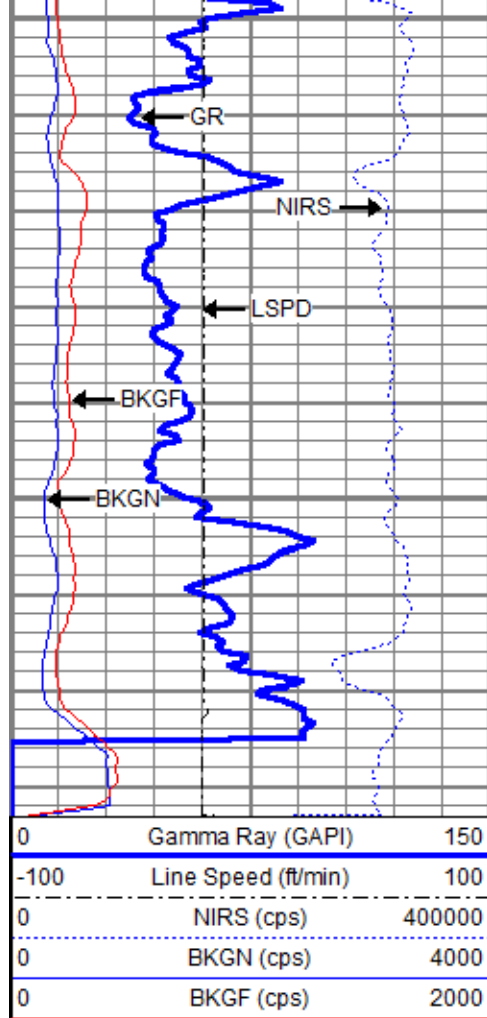




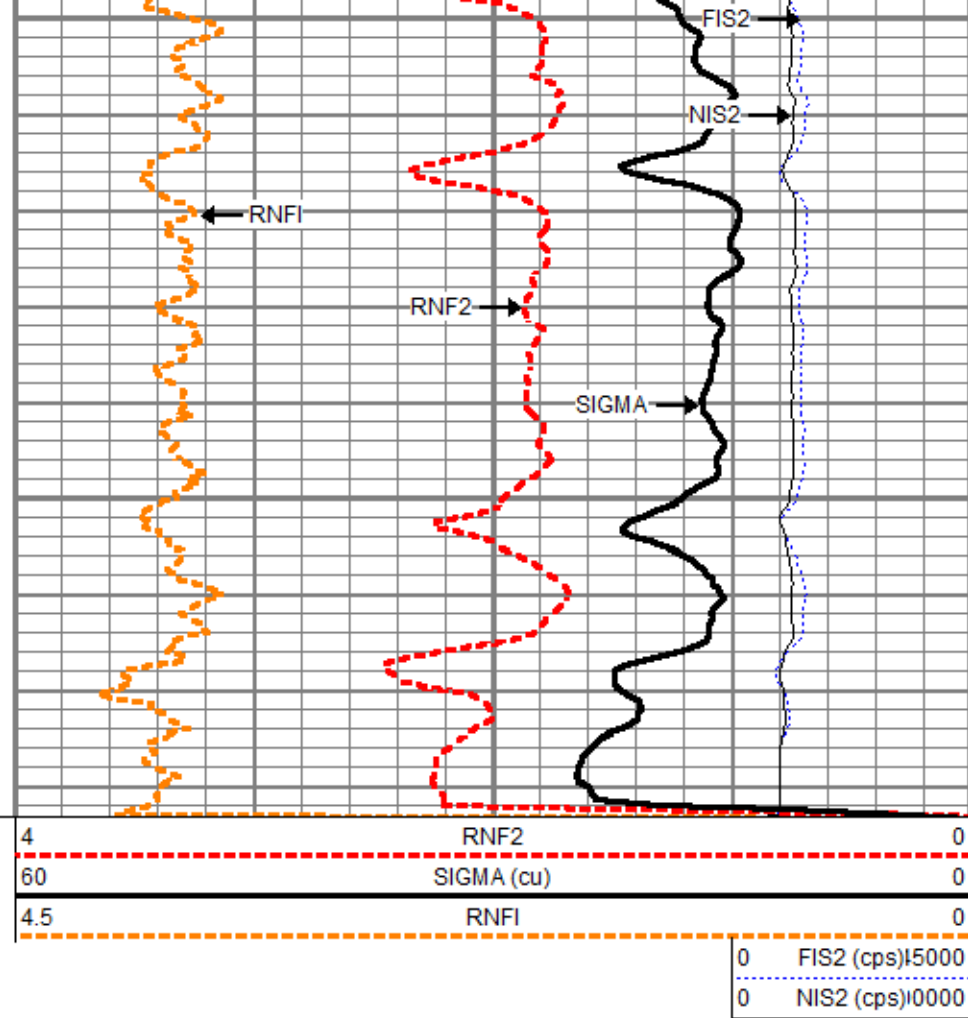
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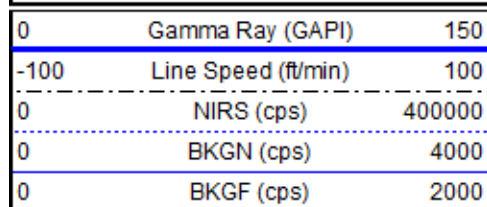


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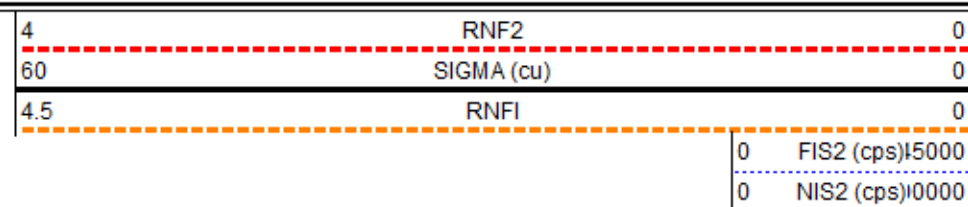


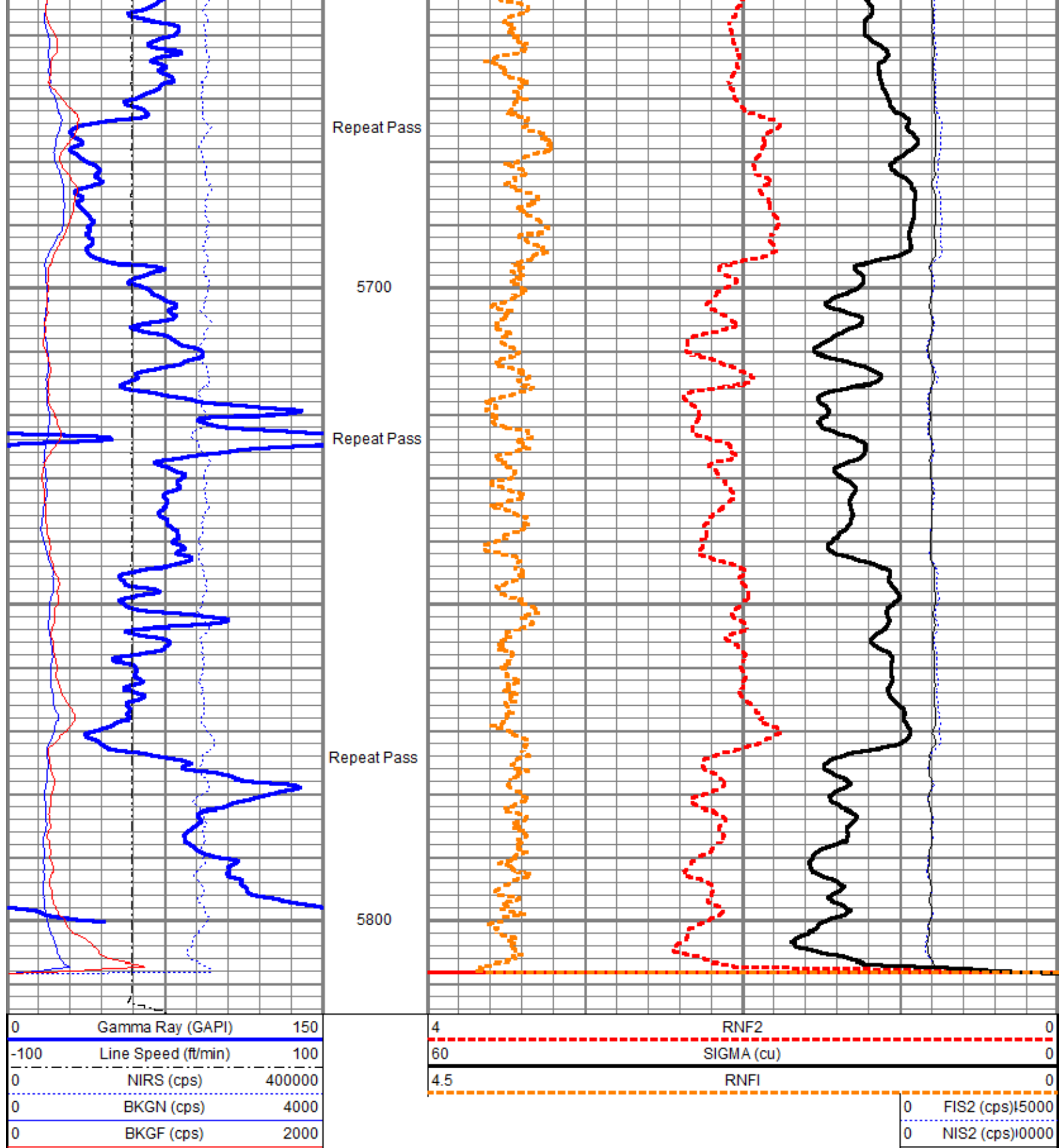
Repeat Pass


Database File c:\techlog-projects\ursa_boies ranch b-19n fed pad_emulations\data\export\23b\processed_ursa_boies ranch b-19n fed 23b-19
 Dataset Pathname repeat.2
 Presentation Format ros_pdn_hunter
 Dataset Creation Sat Dec 01 05:18:47 2018
 Charted by Depth in Feet scaled 1:240






Repeat Pass





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-16875 GO Titan 1-11/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.69	5.40
			HWS_TCU-002 (001705) HWS Telemetry Control Unit (TCU002)	2.30	1.69	10.87

			HWS telemetry control unit (TC0002)						
TCUTEMP	14.69								
TCUVOLT	14.69								
GCL_CCL	13.97								
			HWS_GCL-001 (001475) HWS Gamma Ray Collar Locator (1.6875")			2.69	1.69	13.40	
GCL_GR	12.50								
GCL_GR	12.50								
Long	6.25		HWS_RAS-RAS002 (003040) Hunter Well Science Pulsed Neutron Tool			11.75	1.69	55.82	
Far	6.25								
Near	6.25								
Anci	6.25								
			HWS_TBN-001 (001724) HWS Terminator Bull Nose (1.6875")			0.25	1.69	0.99	
Dataset:			processed_ursa_boies ranch b-19n fed 23b-19-2-97_pn_11-30-18.db: field/well/run1/main.2						
Total length:			18.02 ft						
Total weight:			86.48 lb						
O.D.:			1.69 in						

Database File		c:\techlog-projects\ursa_boies ranch b-19n fed pad_emulations\data\export\23b\processed_ursa_boies ranch b-19n fed 23b-19-2
Dataset Pathname		main.2
Dataset Creation		Sat Dec 01 05:16:48 2018
Gamma Ray Calibration Report		

Serial Number: 001475
Tool Model: 001
Performed: Fri Oct 19 14:55:00 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0
Calibrator Reading: 1.0

Sensitivity: 1.0000 GAPI/



Company Ursa Operating Company LLC
Well Boies Ranch B-19N FED 23B-19-2-97
Field Sulphur Creek
County Rio Blanco
State Colorado