



DUAL INDUCTION LOG

Company	O'Brien Energy Resources Corp.			
Well	Rexfords #1-32			
Field	Angell			
County	Meade			
State	Kansas			
Company	O'Brien Energy Resources Corp.			
Well	Rexfords #1-32			
Field	Angell			
County	Meade			
State	Kansas			
Location:	API #: 15 119 21442		Other Services CDNL ML	
	990' FSL & 335' FEL			
Permanent Datum	SEC 32	TWP 32S	RGE 29W	Elevation K.B. 2708' D.F. 2707' G.L. 2696'
Log Measured From	Ground Level KB 12' AGL			
Drilling Measured From	KB			
Date	12-18-19			
Run Number	One			
Depth Driller	6200'			
Depth Logger	6200'			
Bottom Logged Interval	6198'			
Top Log Interval	1550'			
Casing Driller	8 5/8" @ 1571'			
Casing Logger	1571'			
Bit Size	7 7/8"			
Type Fluid in Hole	Chemical		Chlorides 8500 PPM	
Density / Viscosity	9.3/65			
pH / Fluid Loss	9.5/7.2			
Source of Sample	Calculated			
Rm @ Meas. Temp	0.8@60degf			
Rmf @ Meas. Temp	0.6@60degf			
Rmc @ Meas. Temp	1.0@60degf			
Source of Rmf / Rmc	Calculated			
Rm @ BHT	0.4@120degf			
Time Circulation Stopped	11:00 am			
Time Logger on Bottom	4:30 pm			
Maximum Recorded Temperature	120degf			
Equipment Number	T605			
Location	Hays, KS			
Recorded By	C. Patterson			
Witnessed By	Mr. Pete Debenham			

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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

Meade,KS West to 9 RD, Then South on 9 RD 4.9 mi.,
Then East into Location down existing Lease RD 1/4 mi.

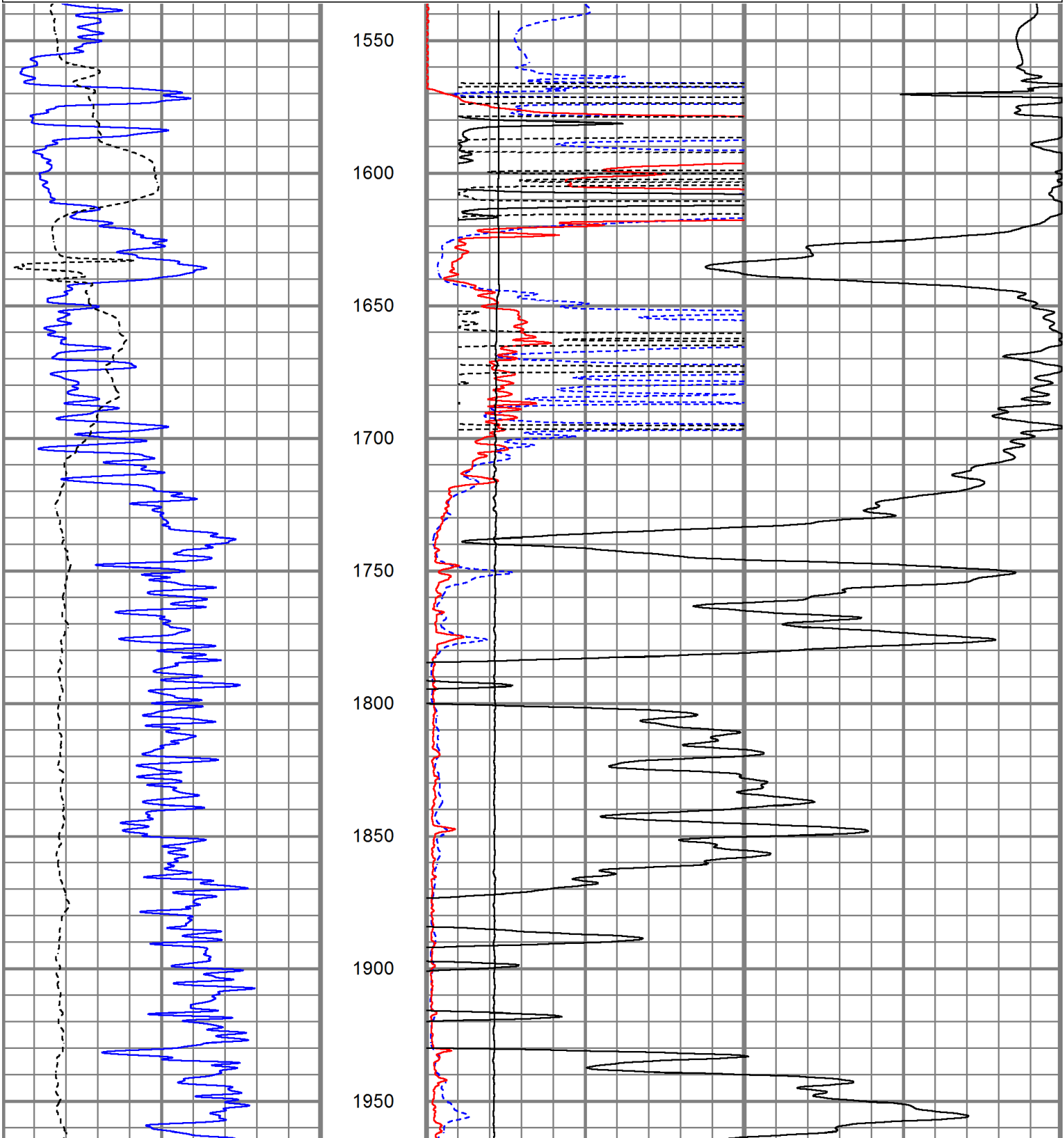
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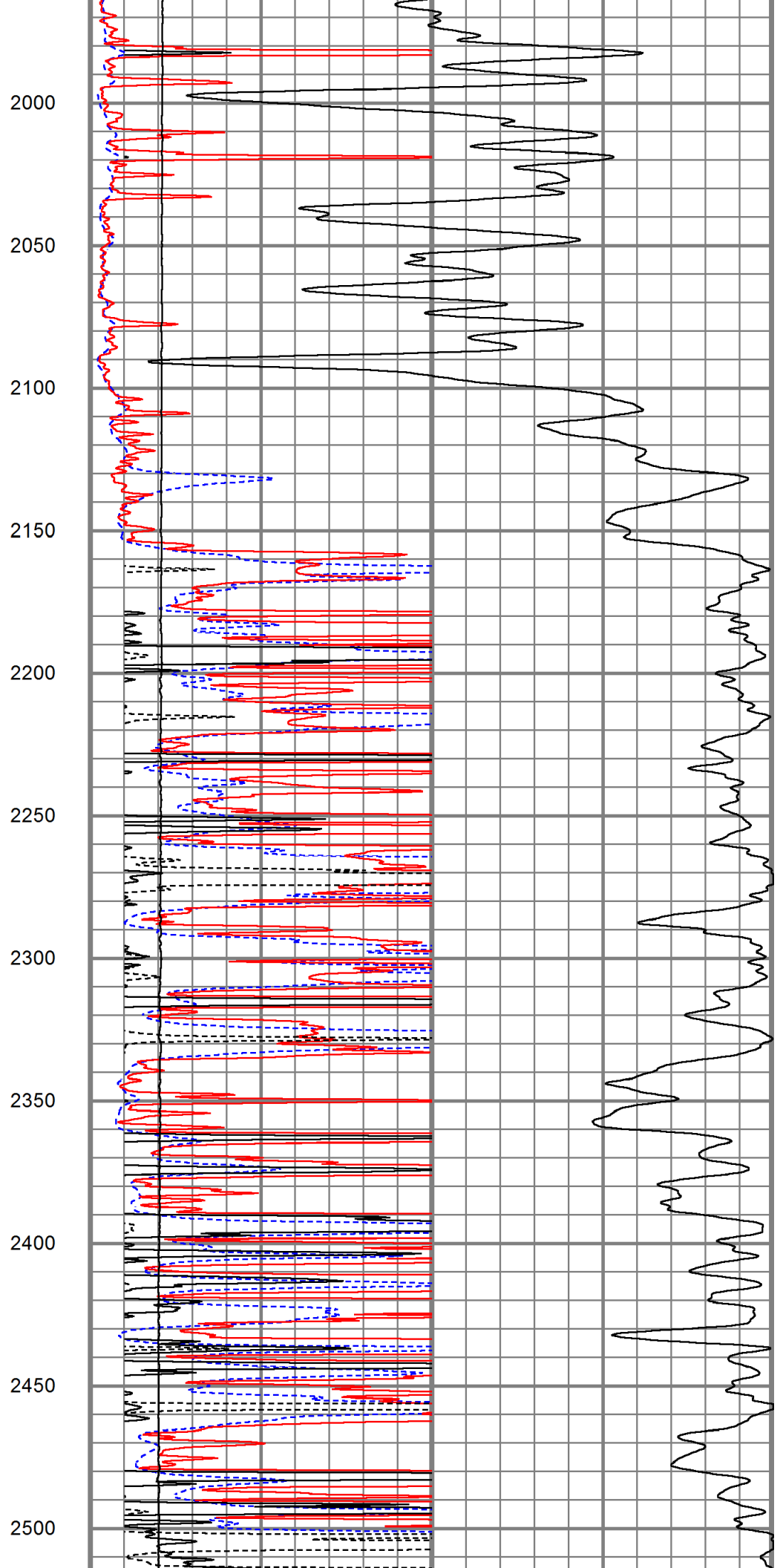
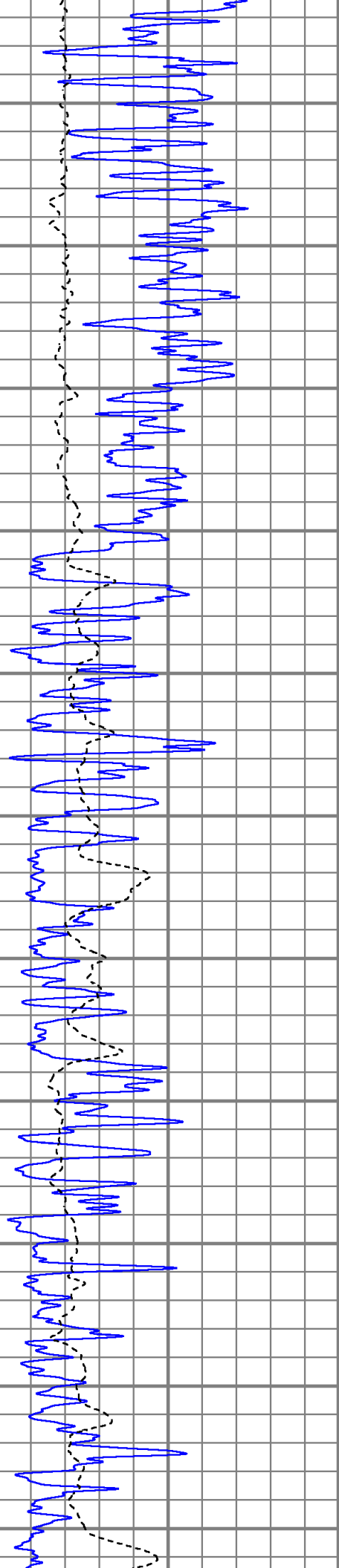


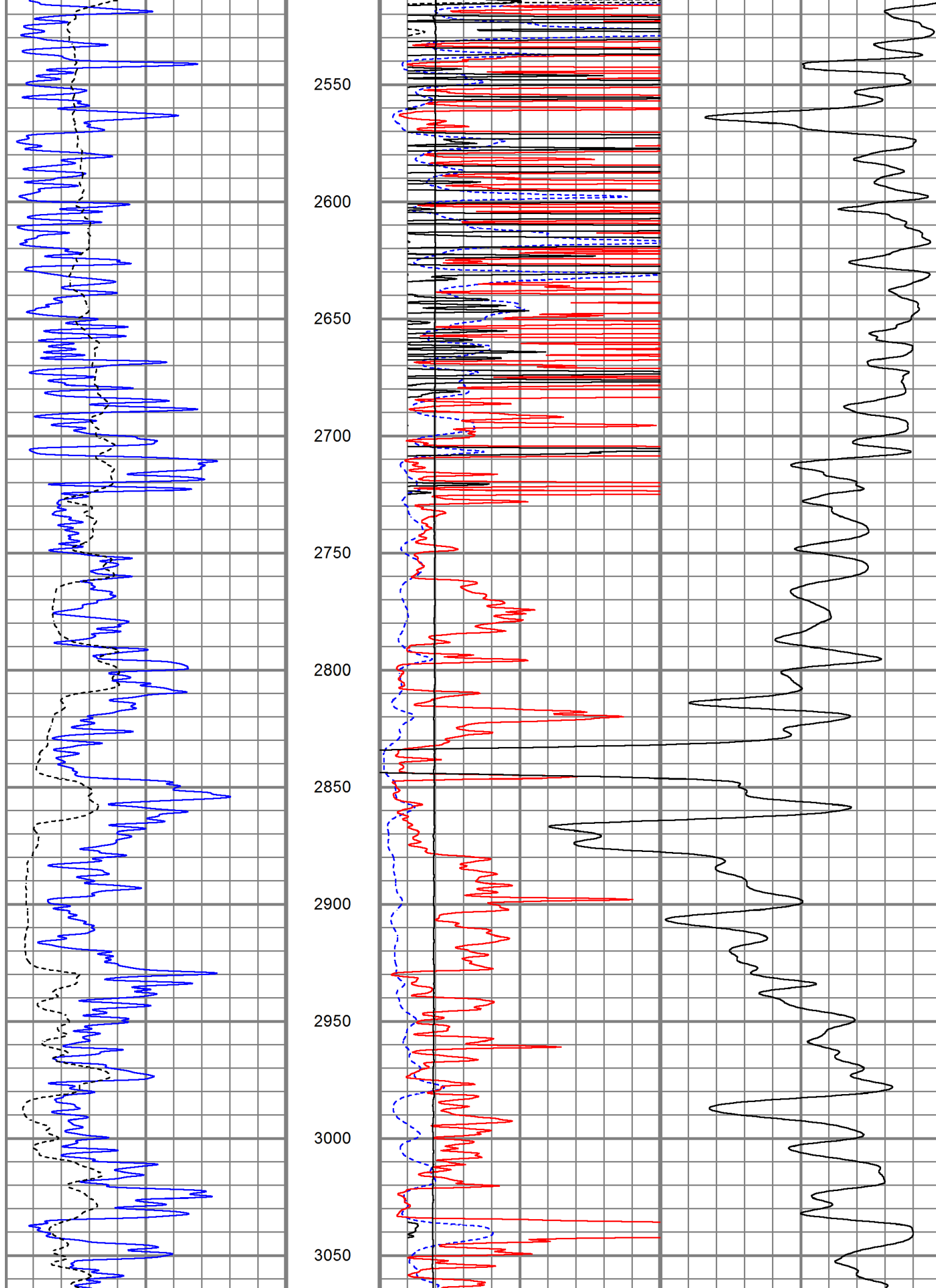
MAIN PASS

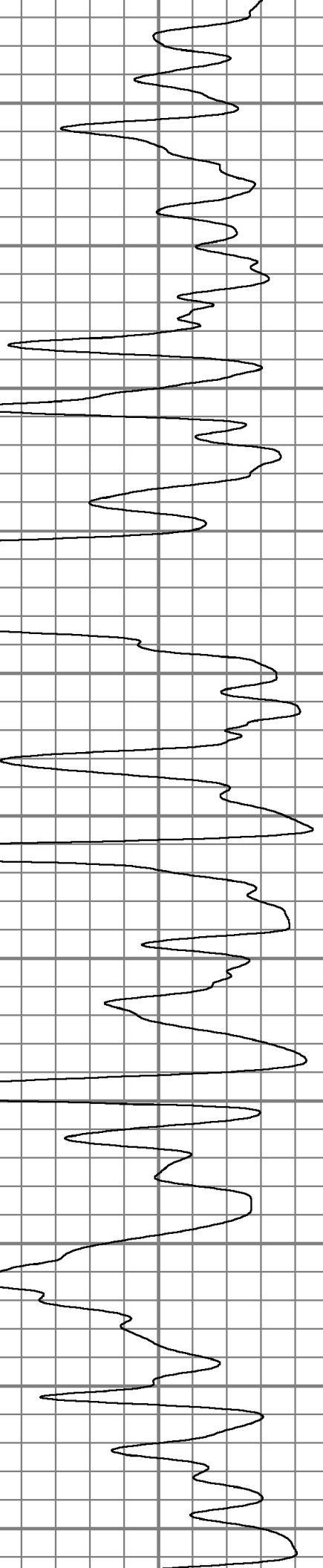
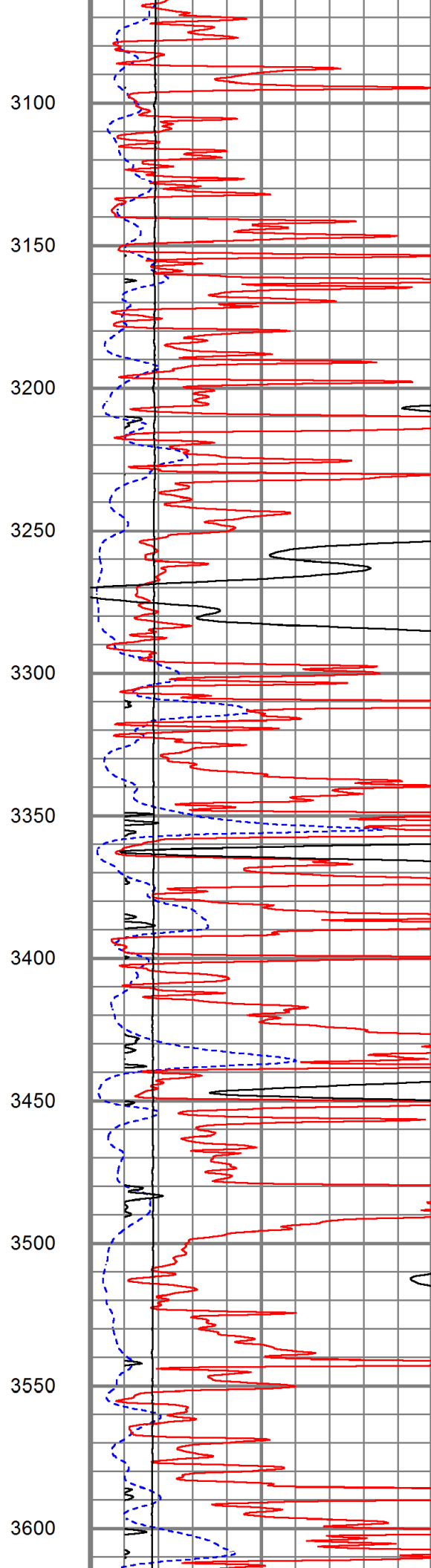
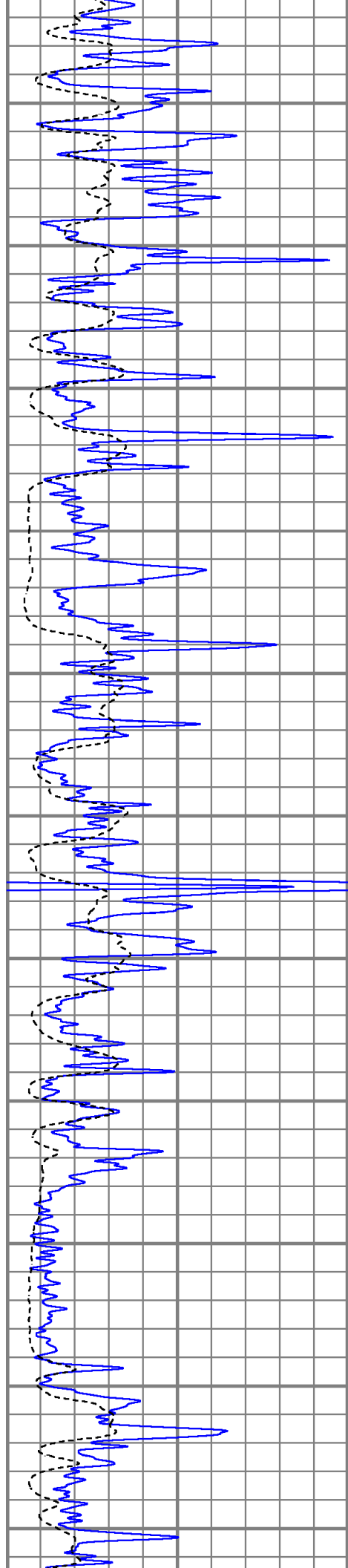
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Dataset Pathname	pass3.1
Presentation Format	kdillinn
Dataset Creation	Wed Dec 18 20:40:27 2019
Charted by	Depth in Feet scaled 1:600

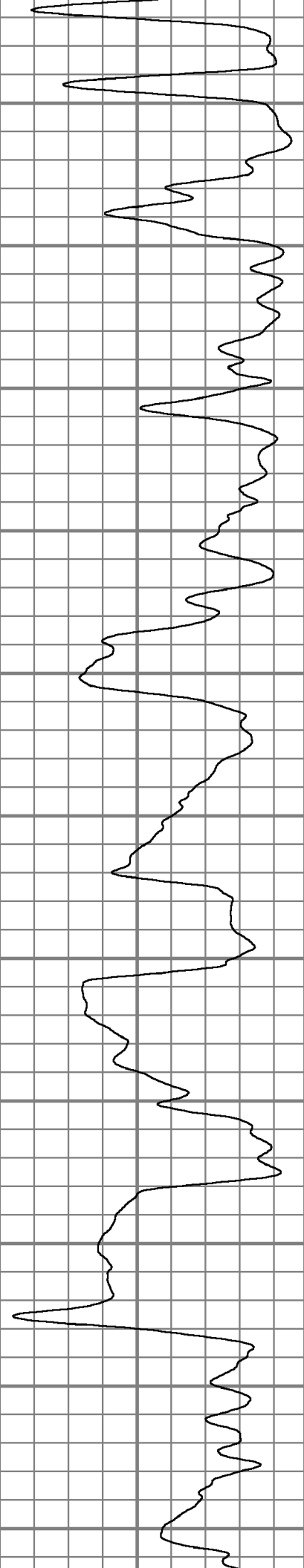
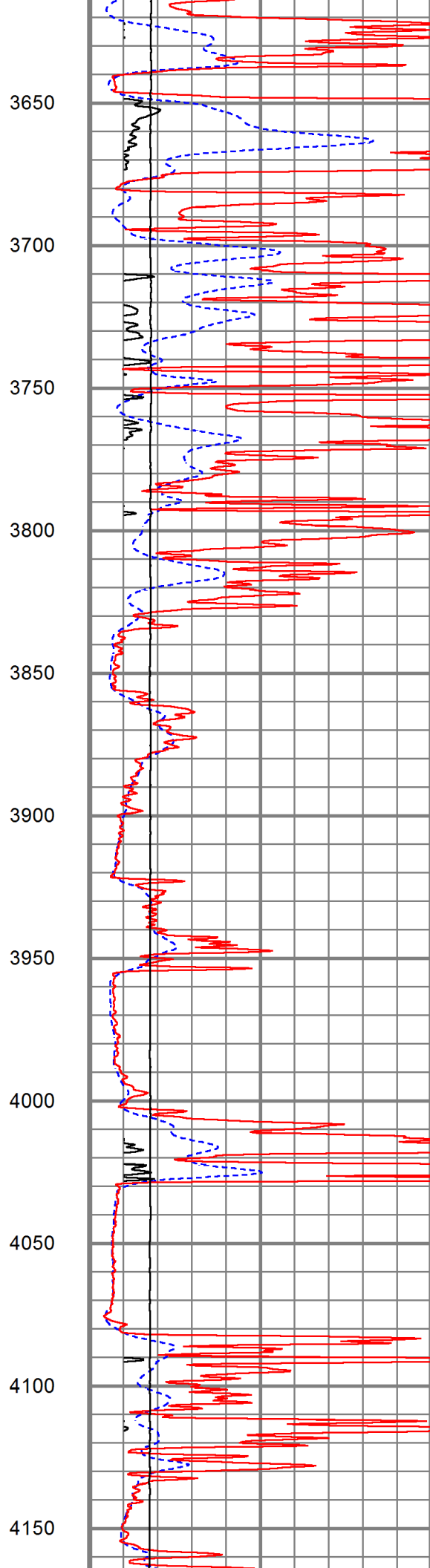
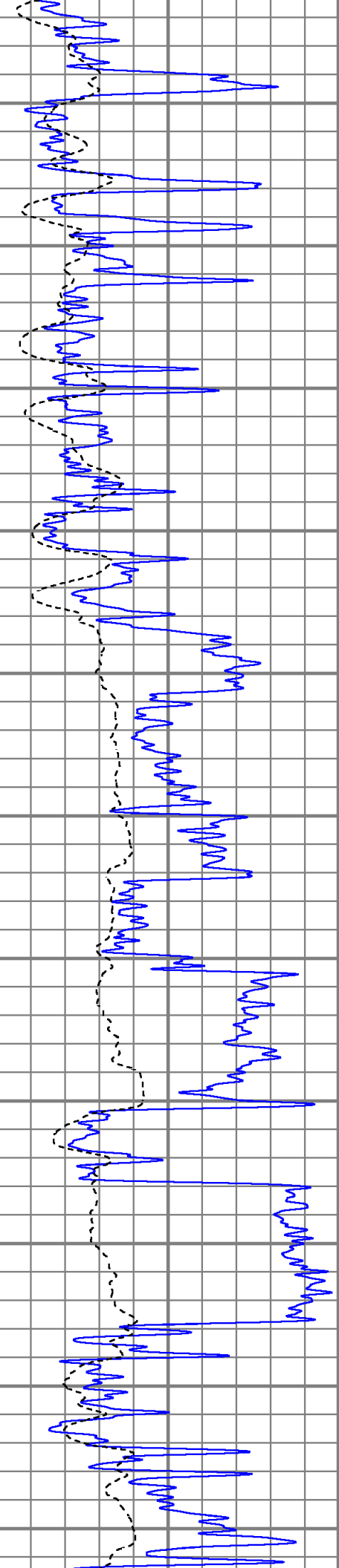
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-100	SP (mV)	100	10000	LTEN (lb)	0
0	RILD (Ohm-m)	50			
0	RLL3 (Ohm-m)	50			
50	RILD x 10 (Ohm-m)	500			
50	RLL3 x 10 (Ohm-m)	500			

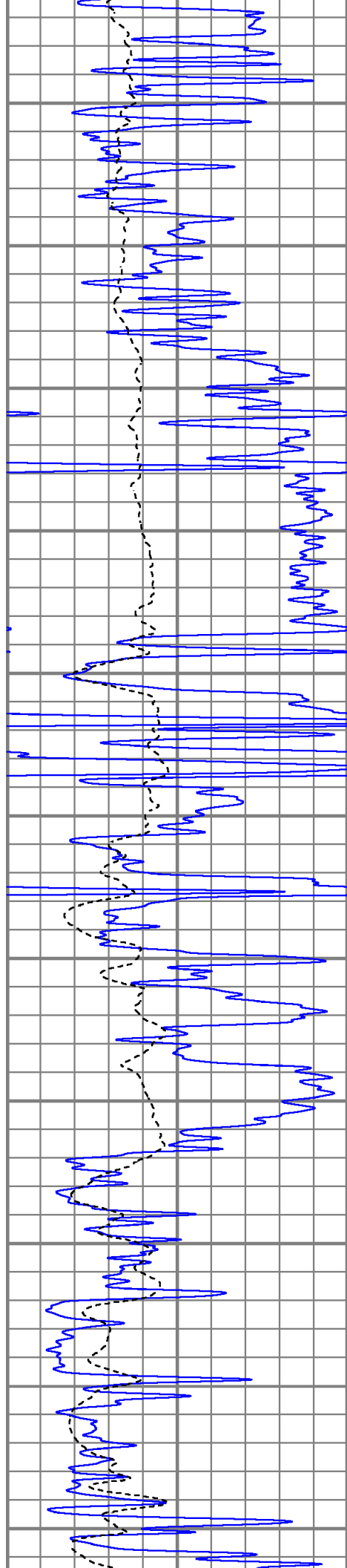












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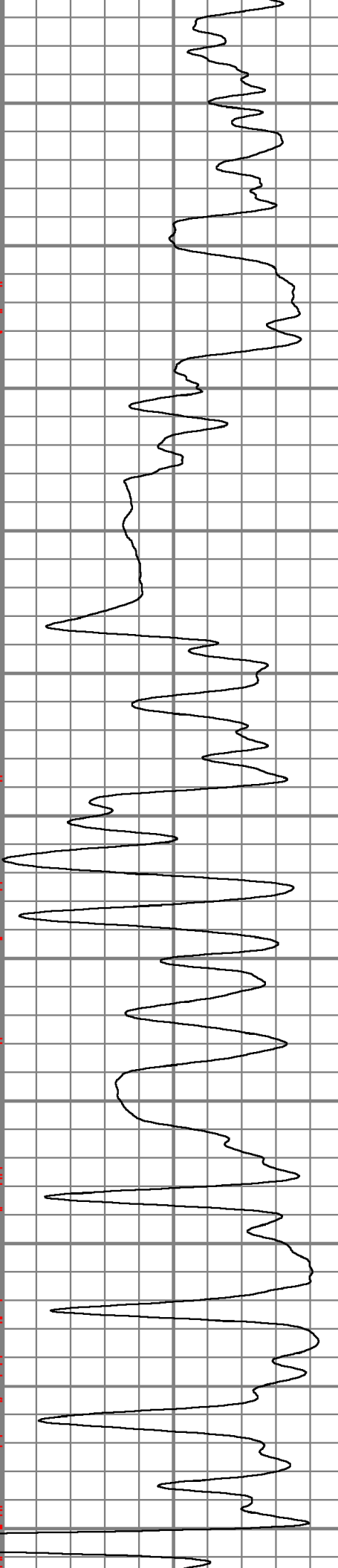
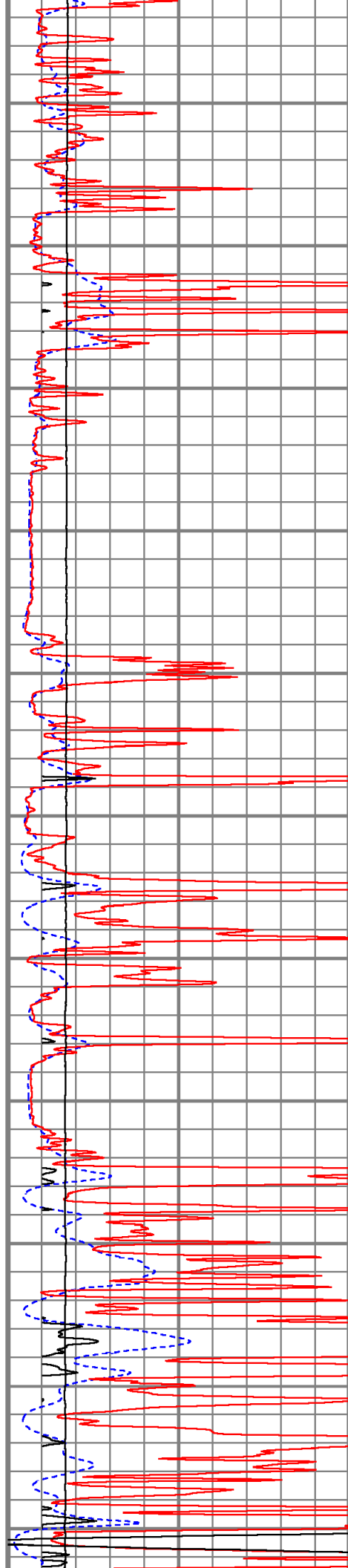
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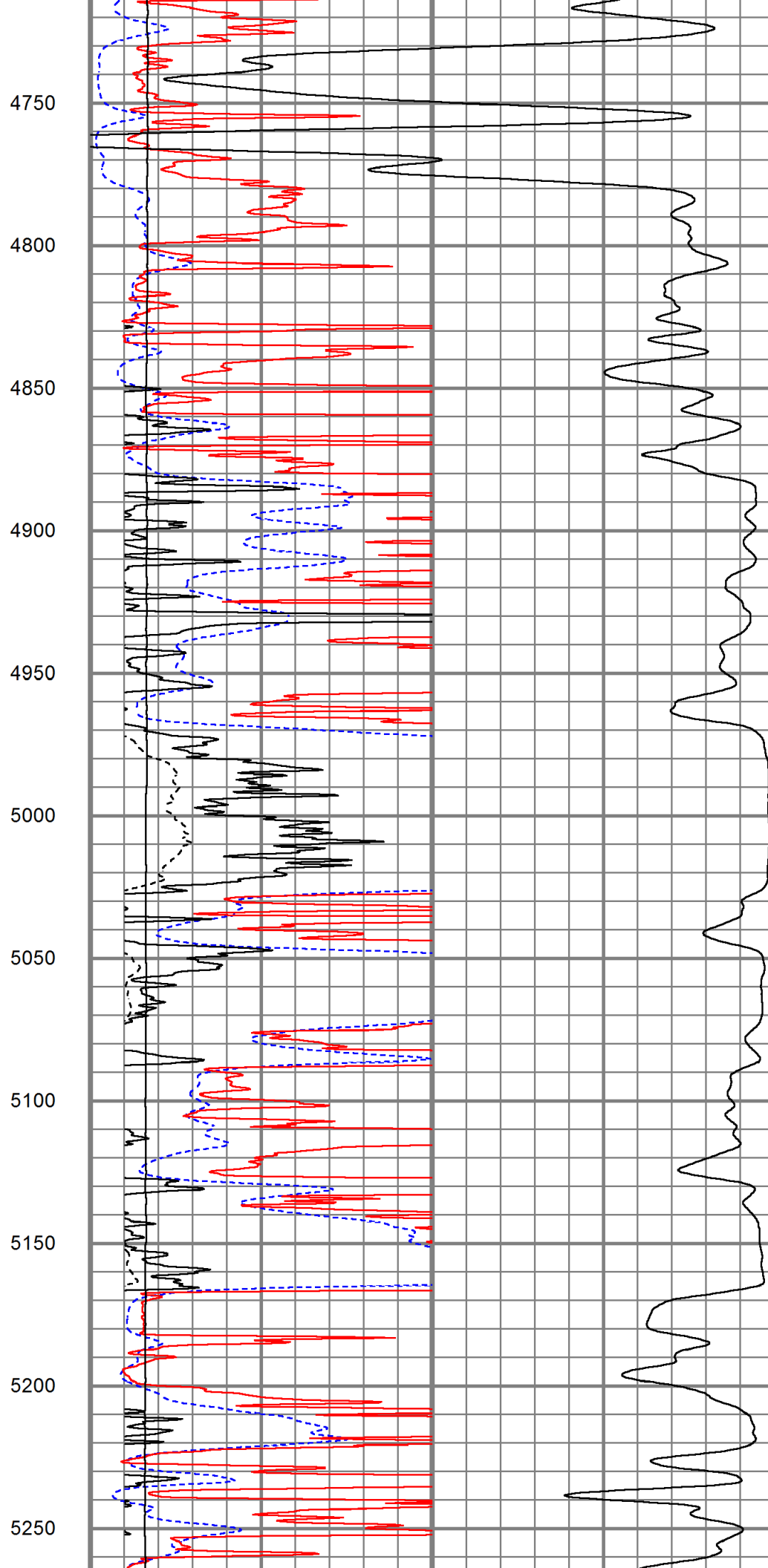
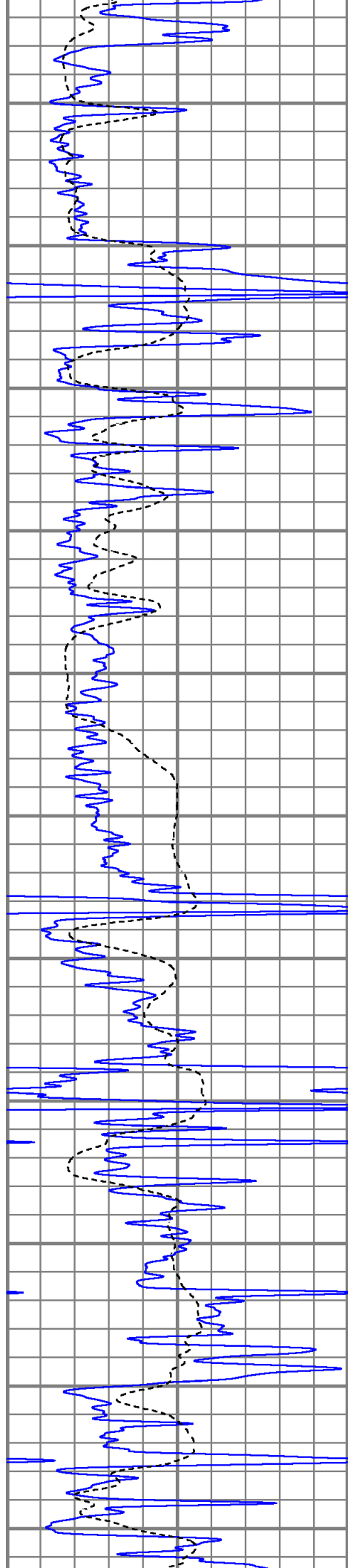
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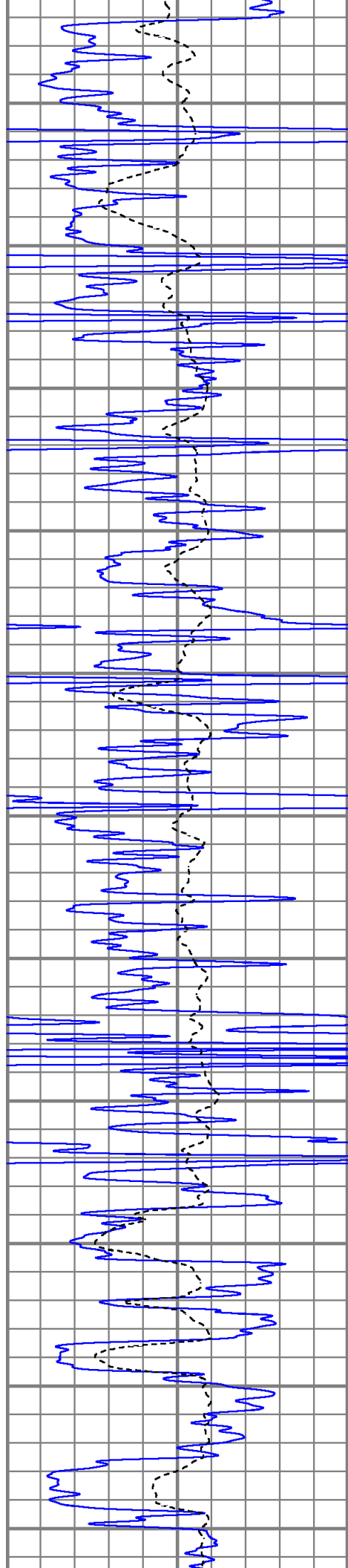
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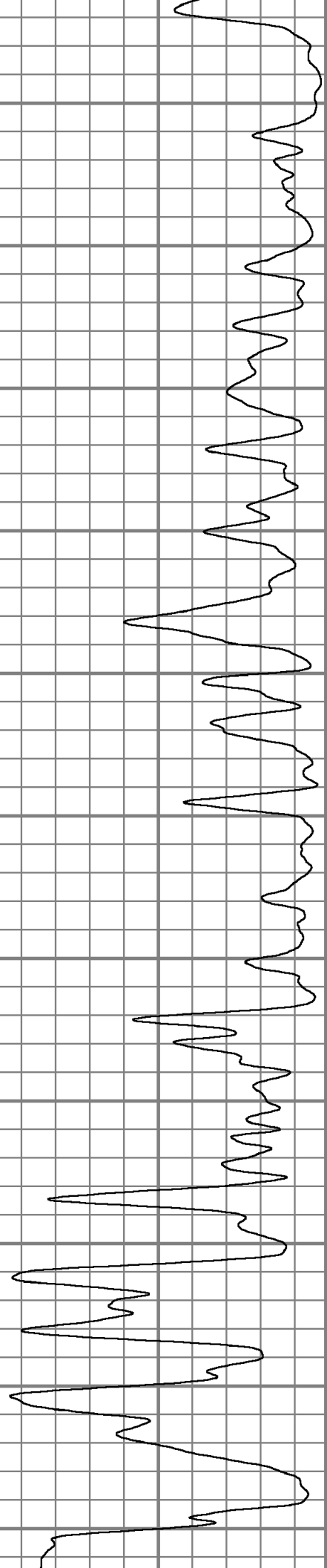
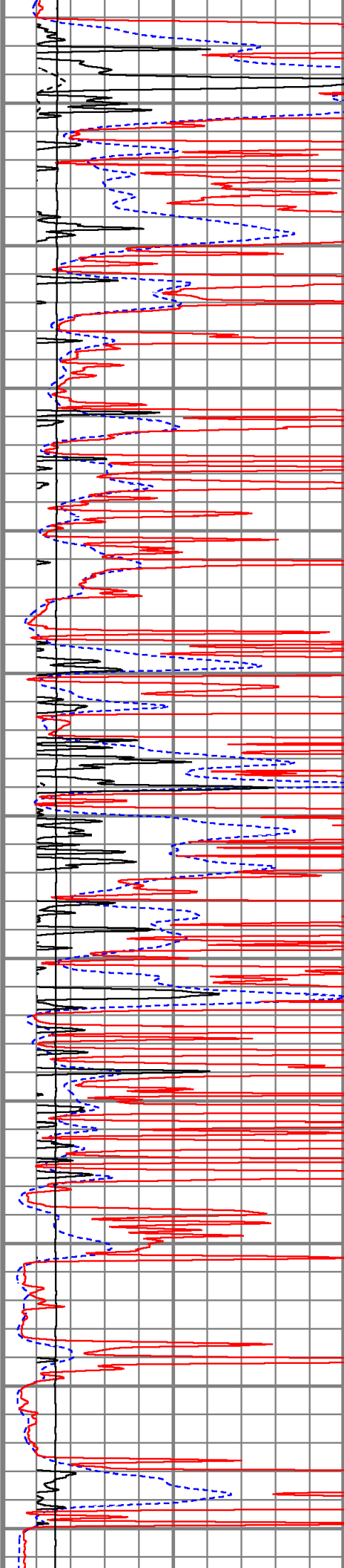
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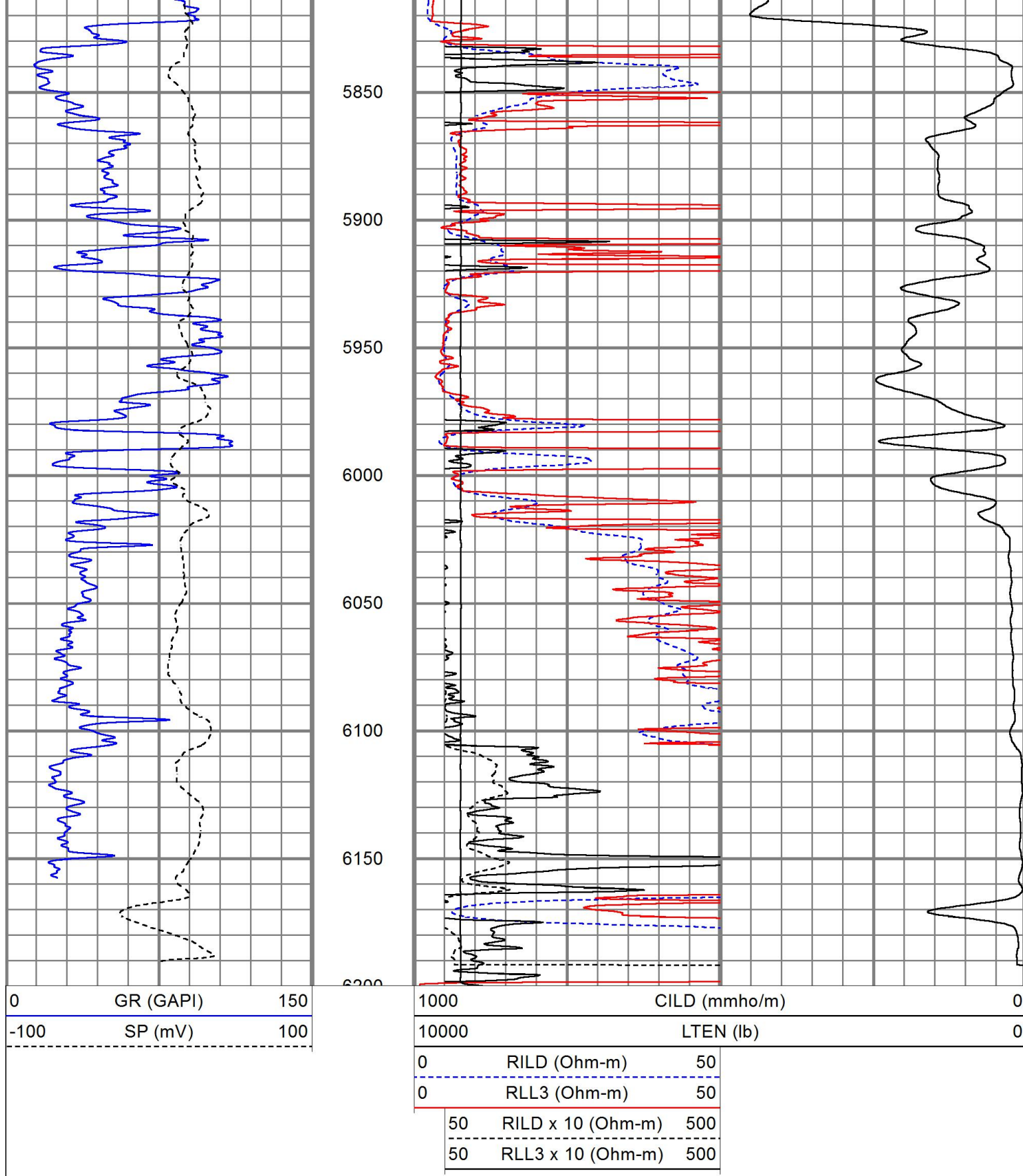
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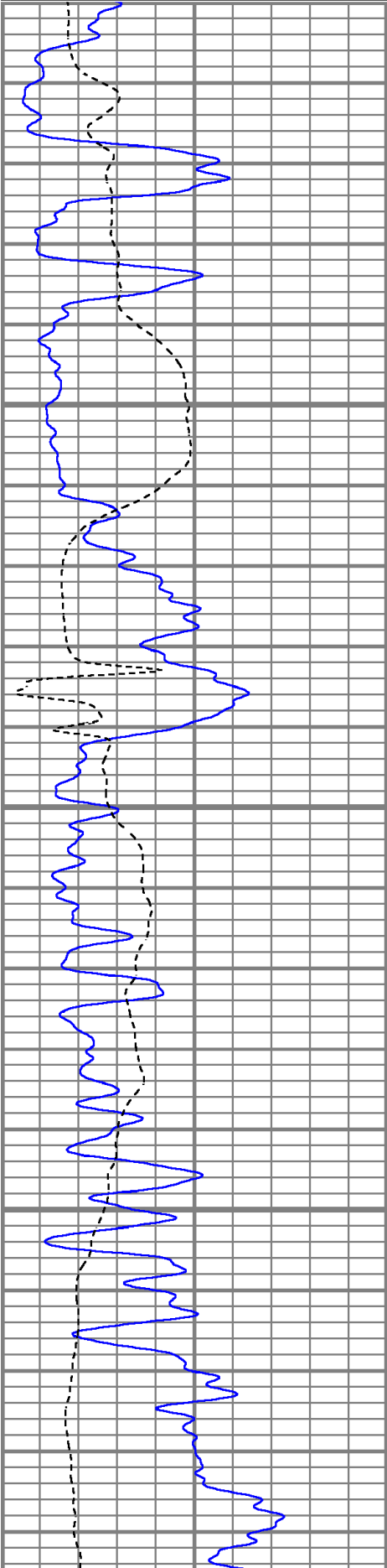


MAIN PASS

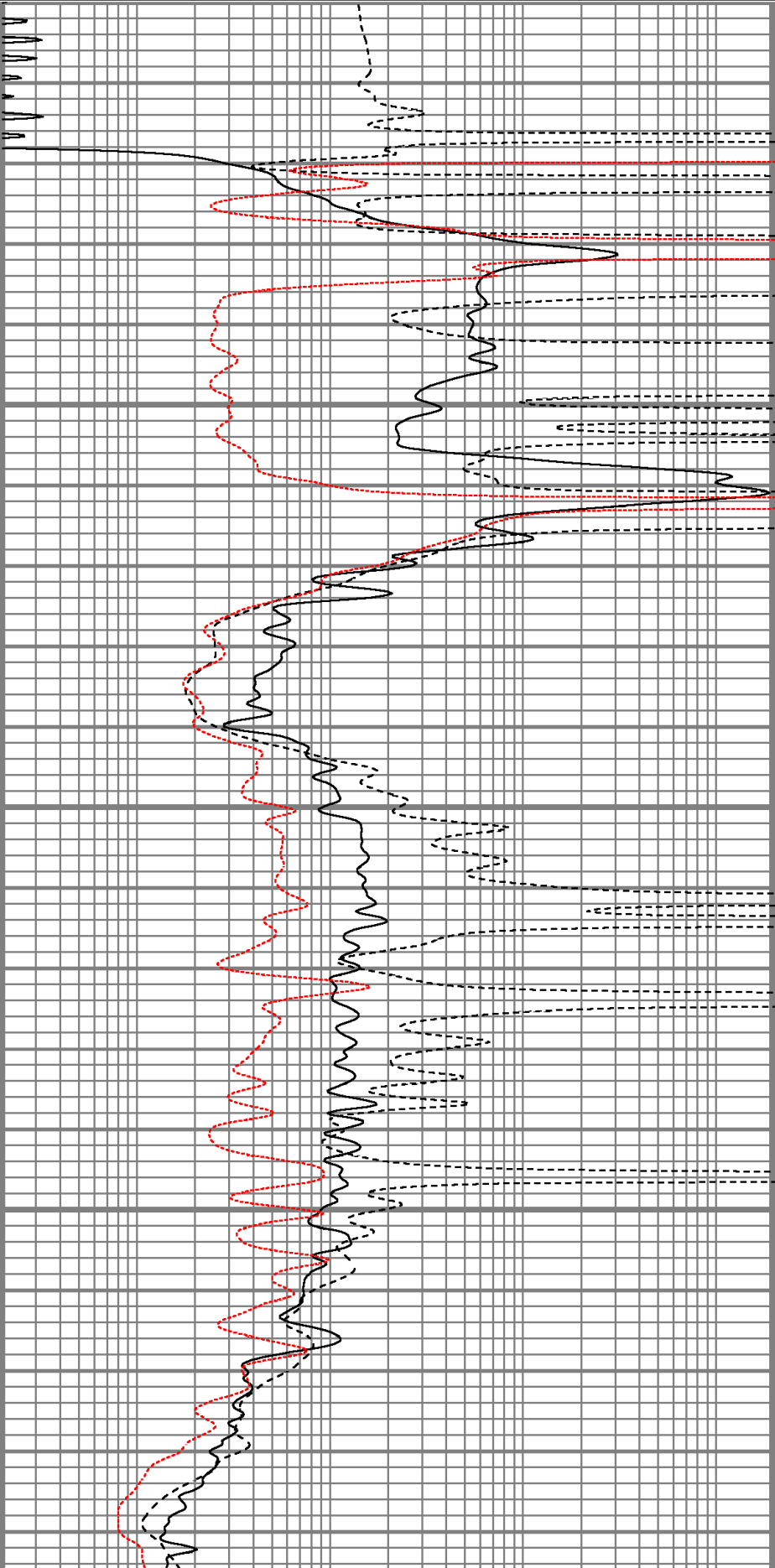
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 Presentation Format kdil

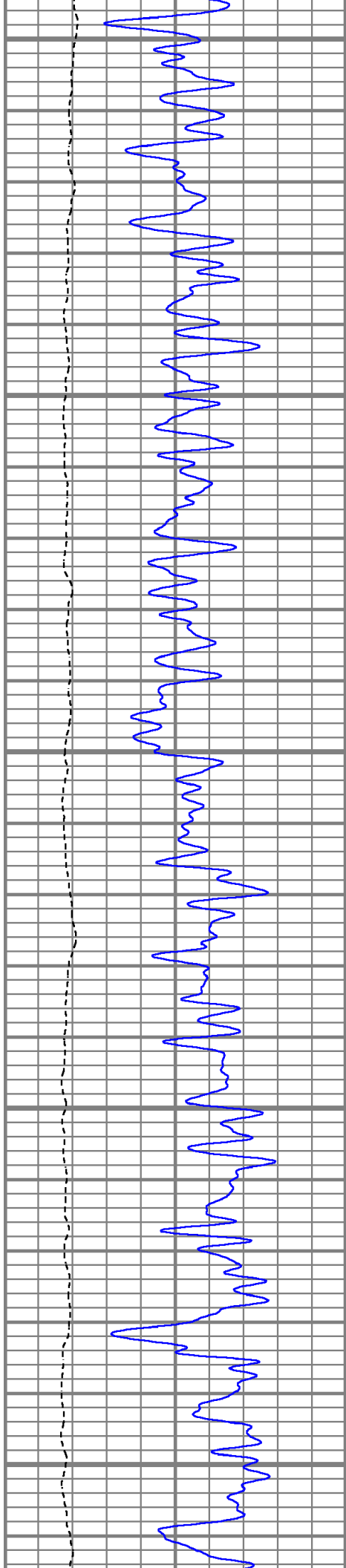
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-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



1550
1600
1650
1700





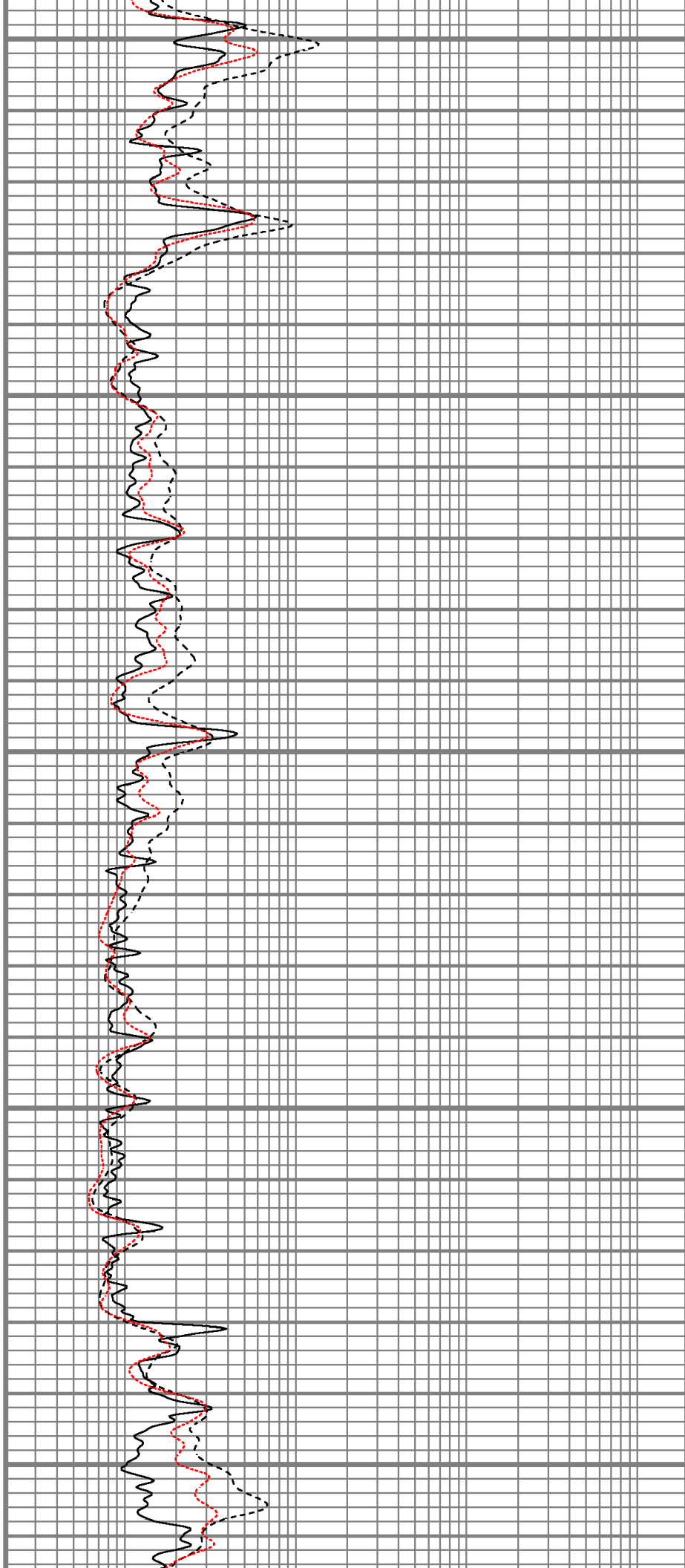
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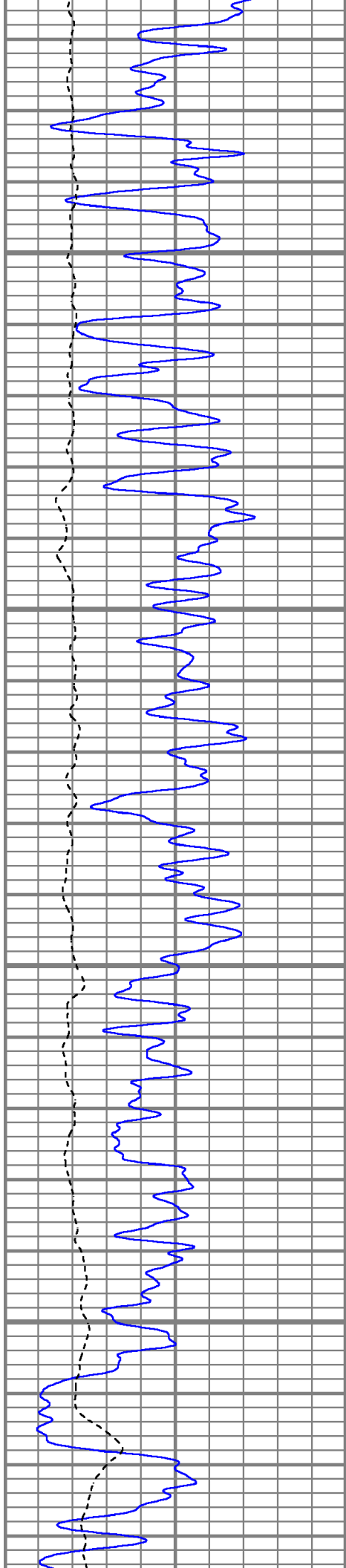
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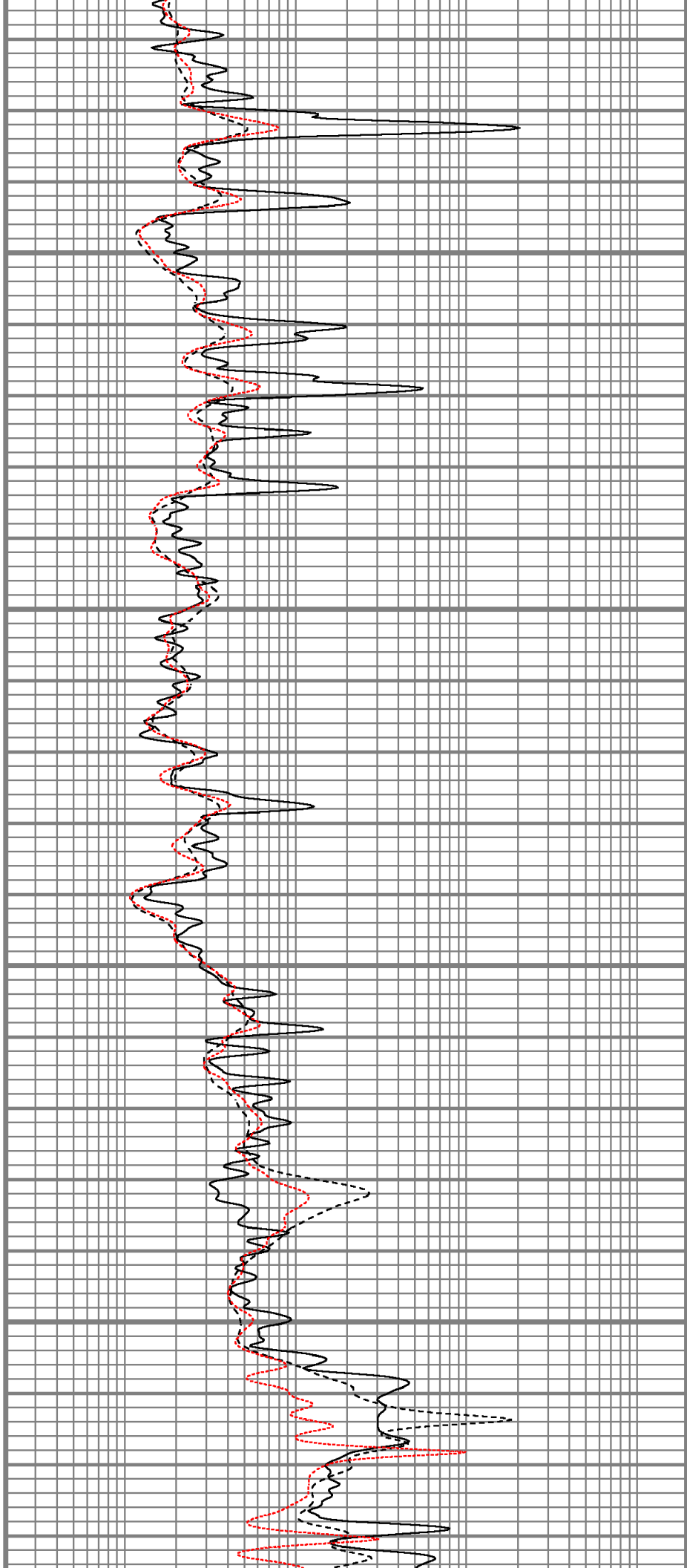


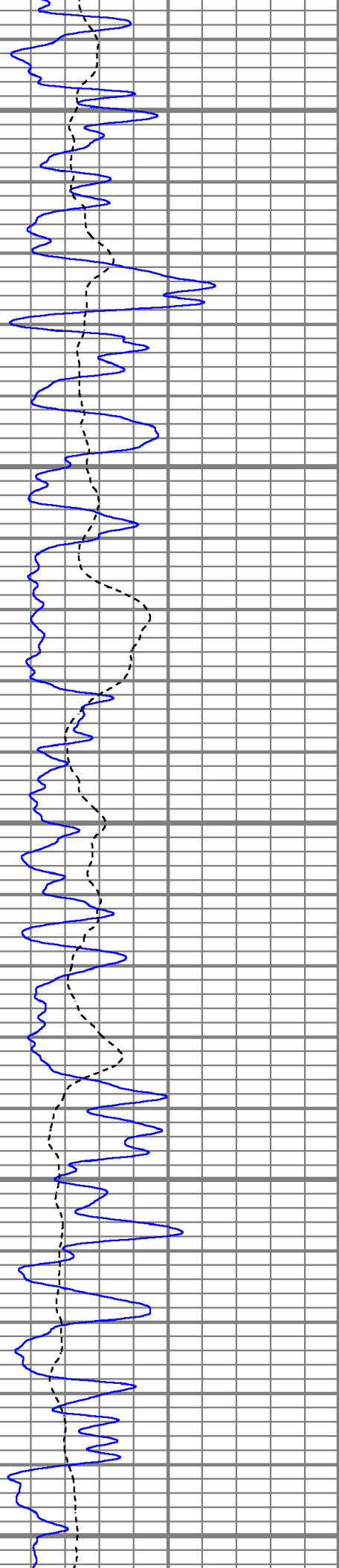
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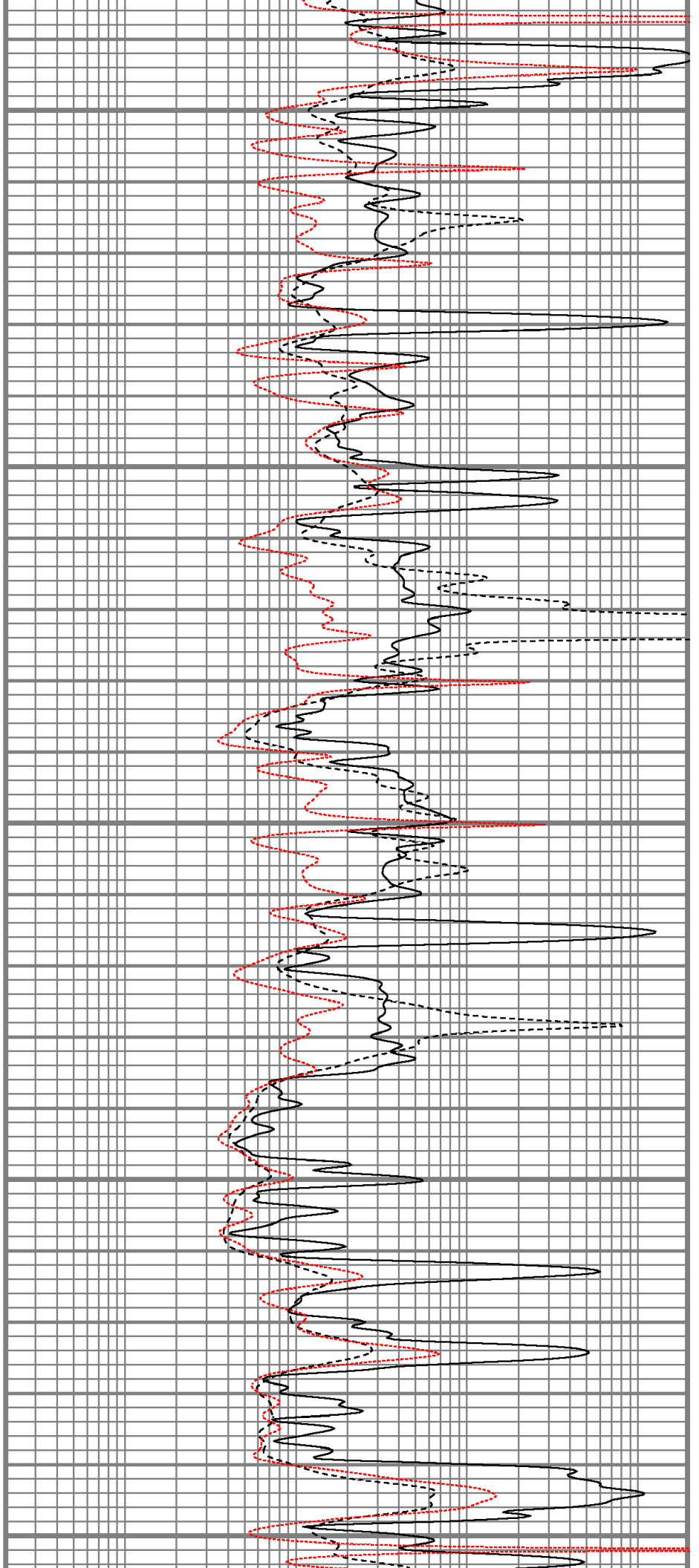
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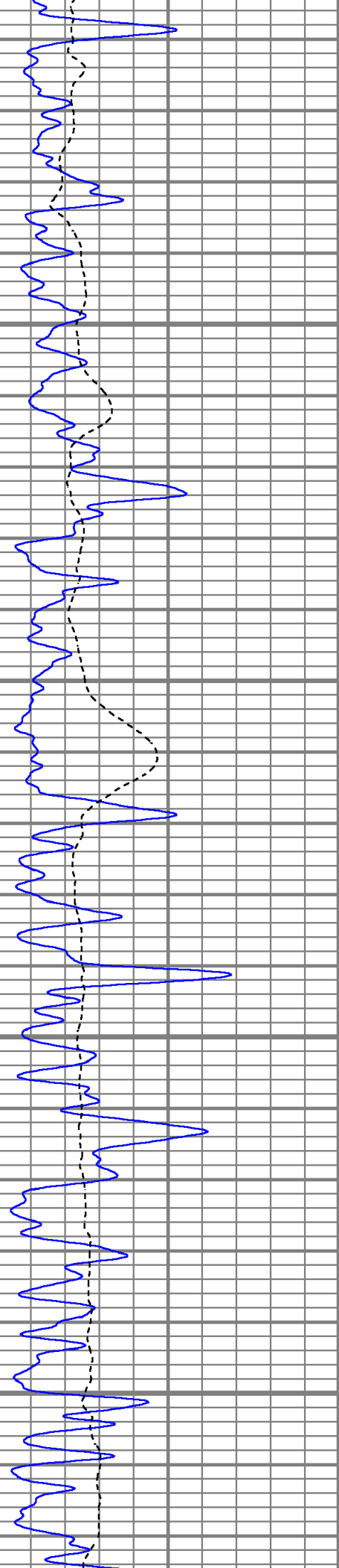
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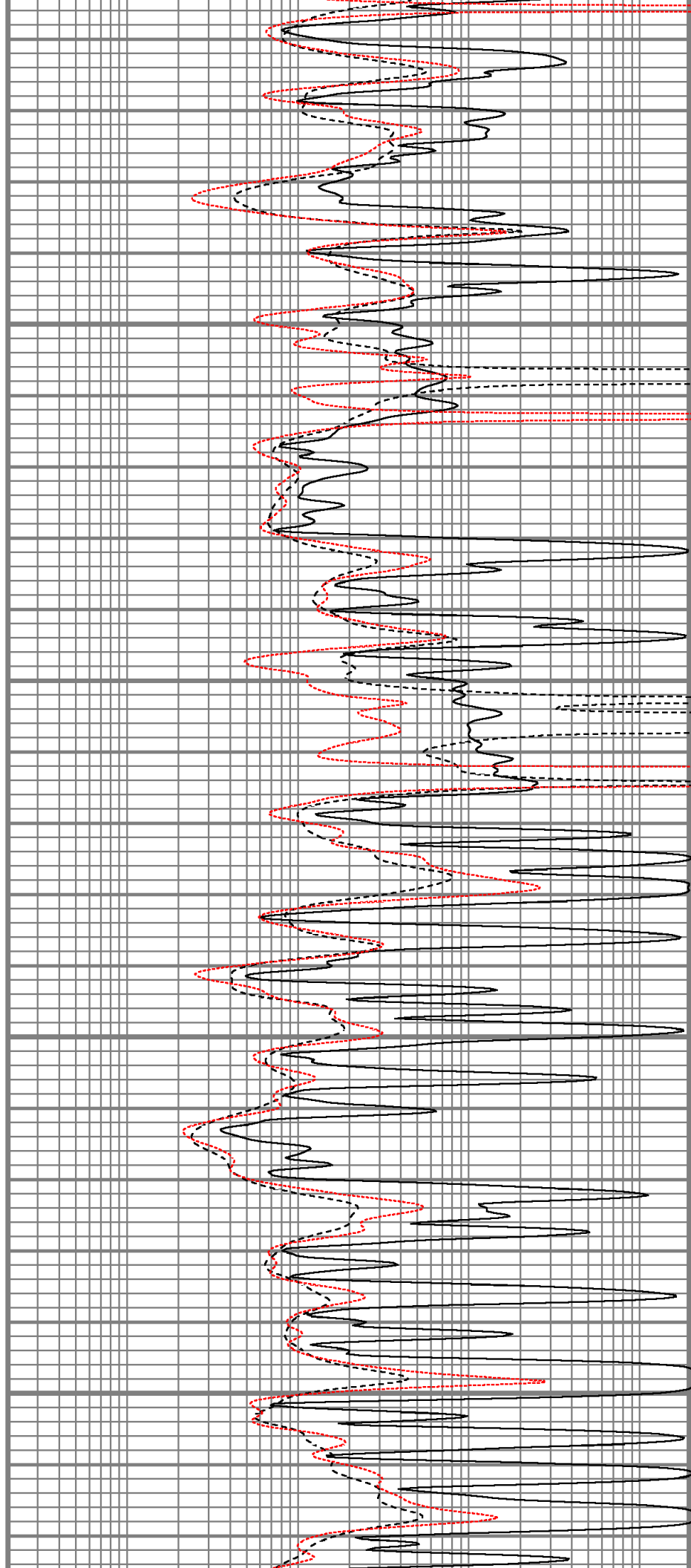


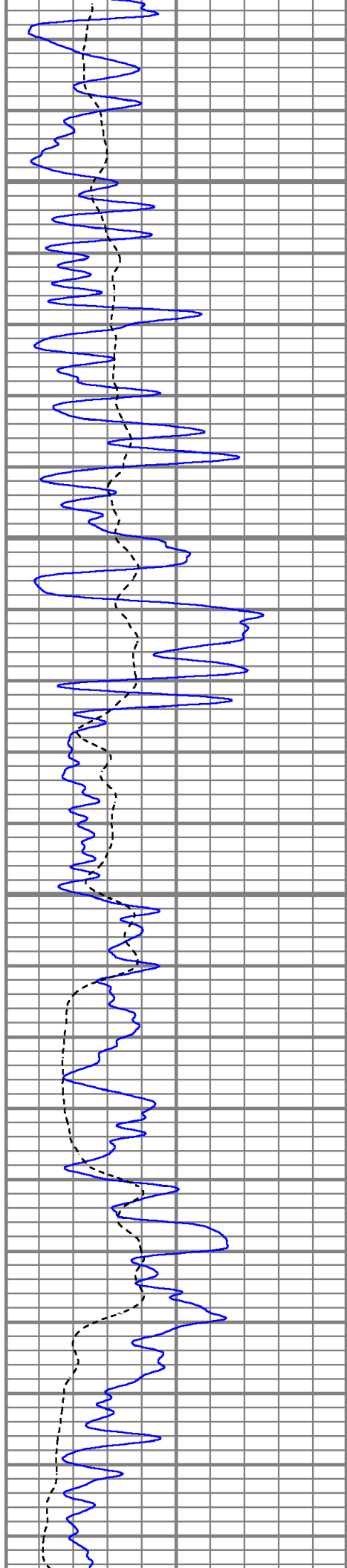
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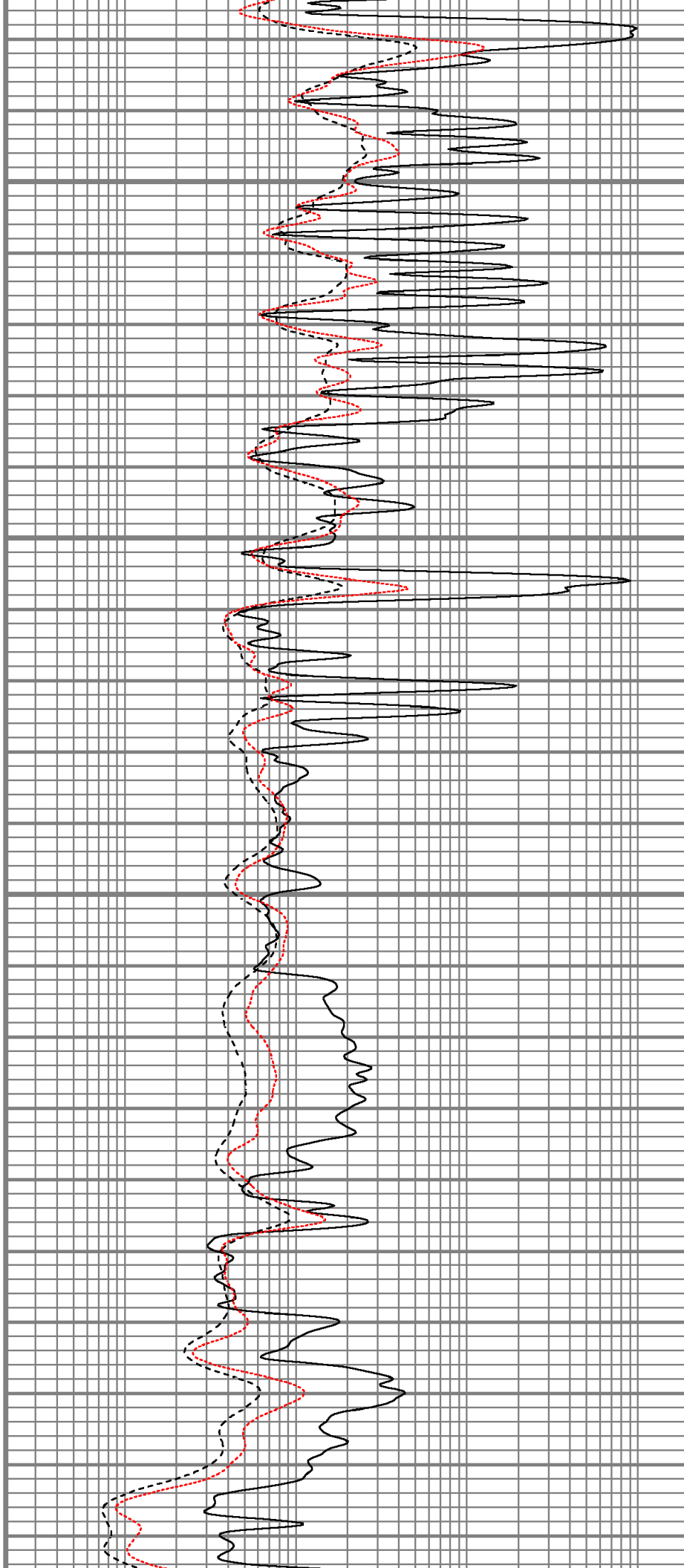


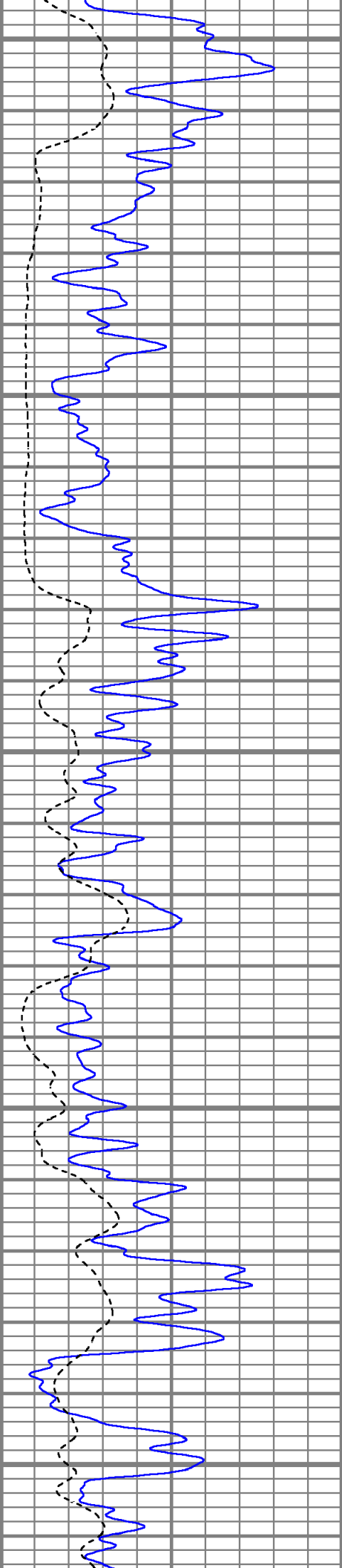
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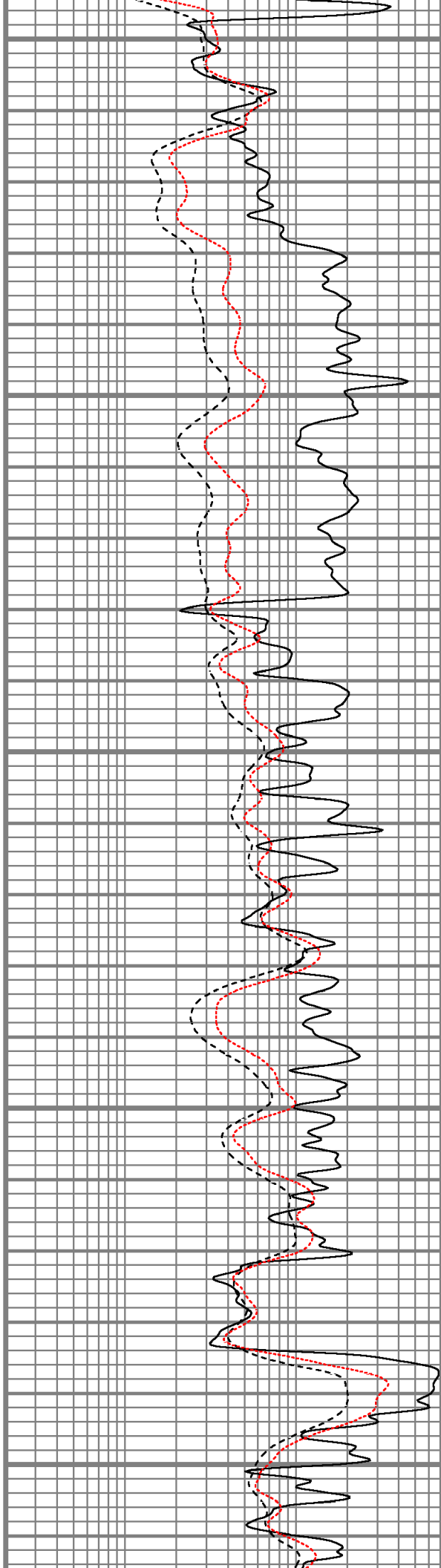
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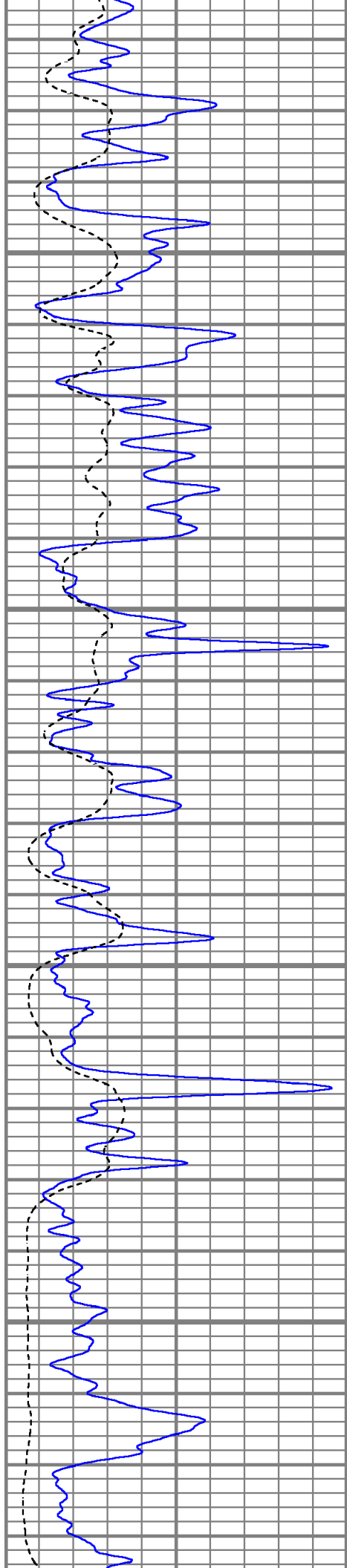
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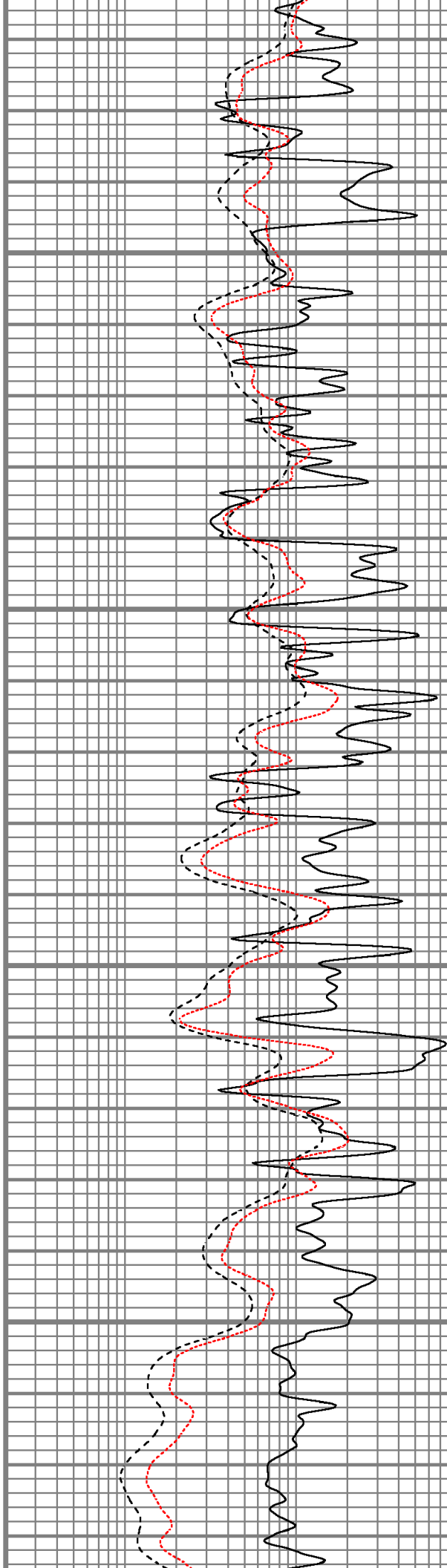


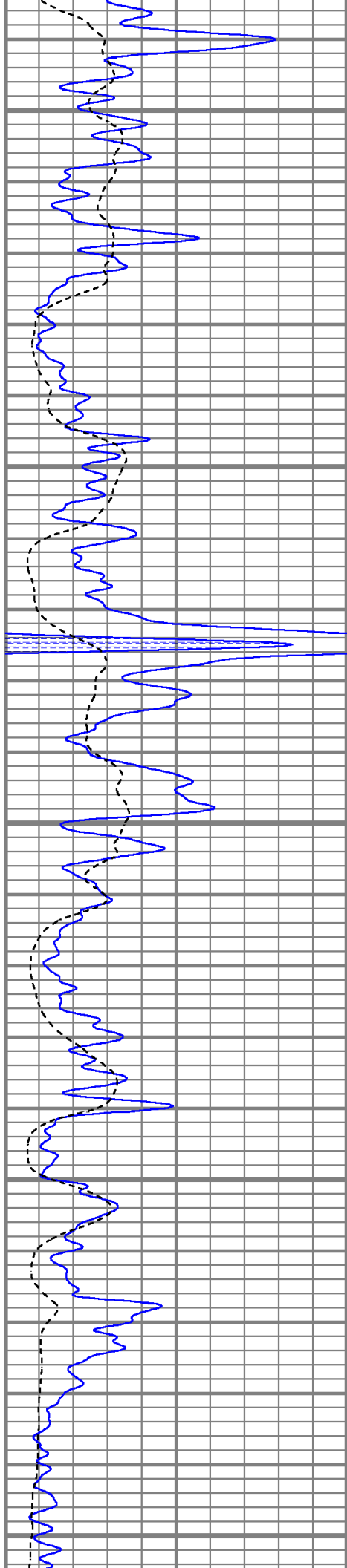
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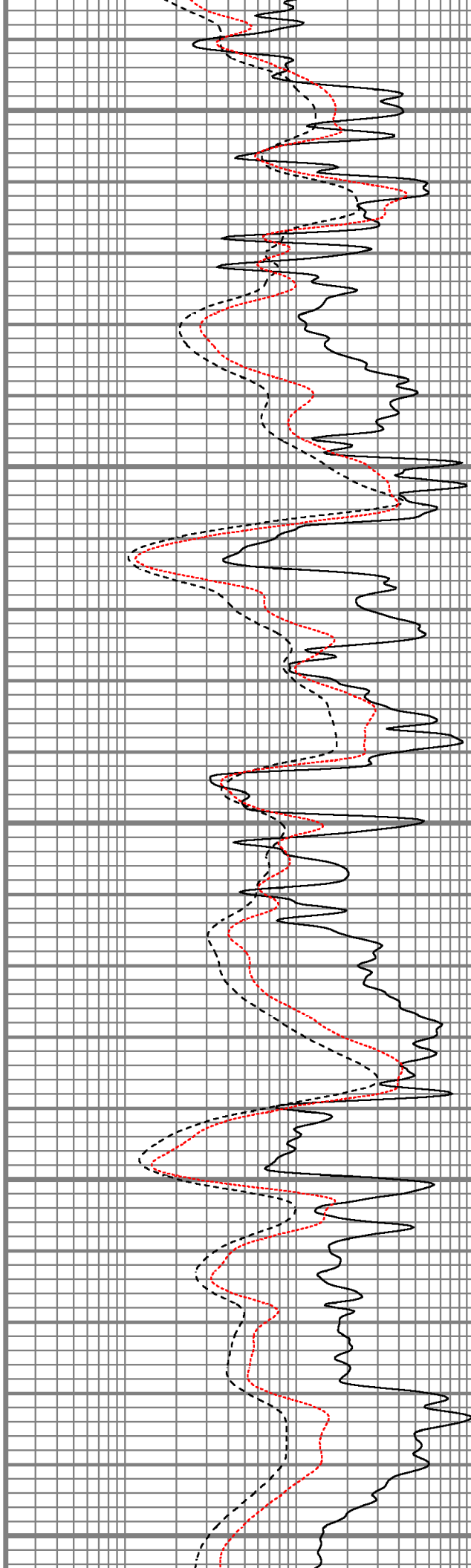
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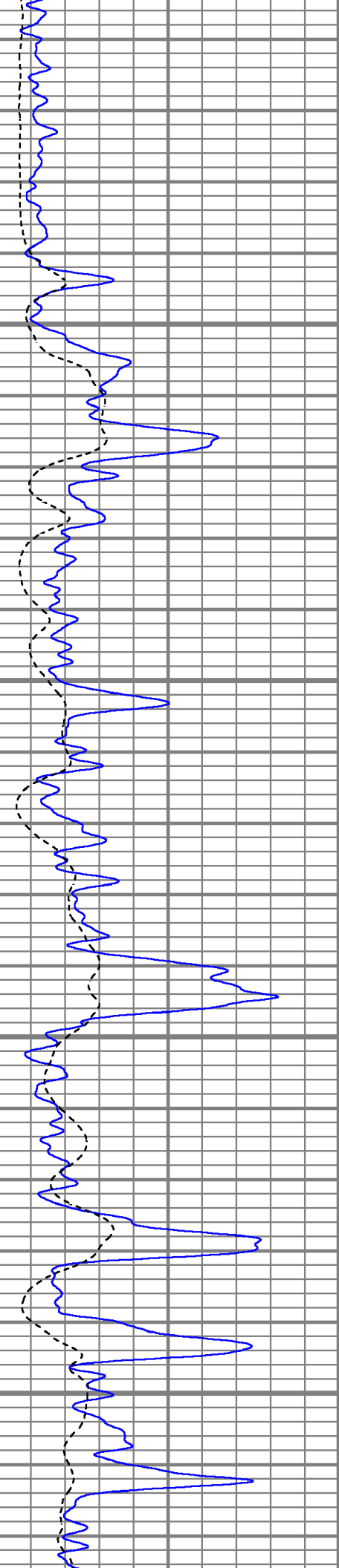
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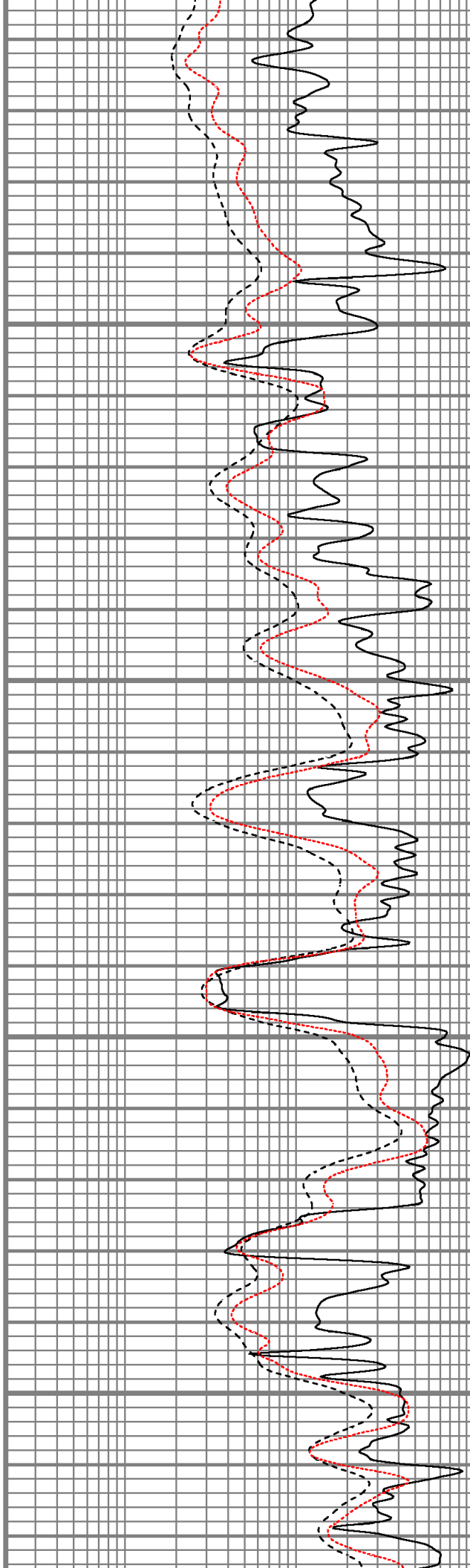


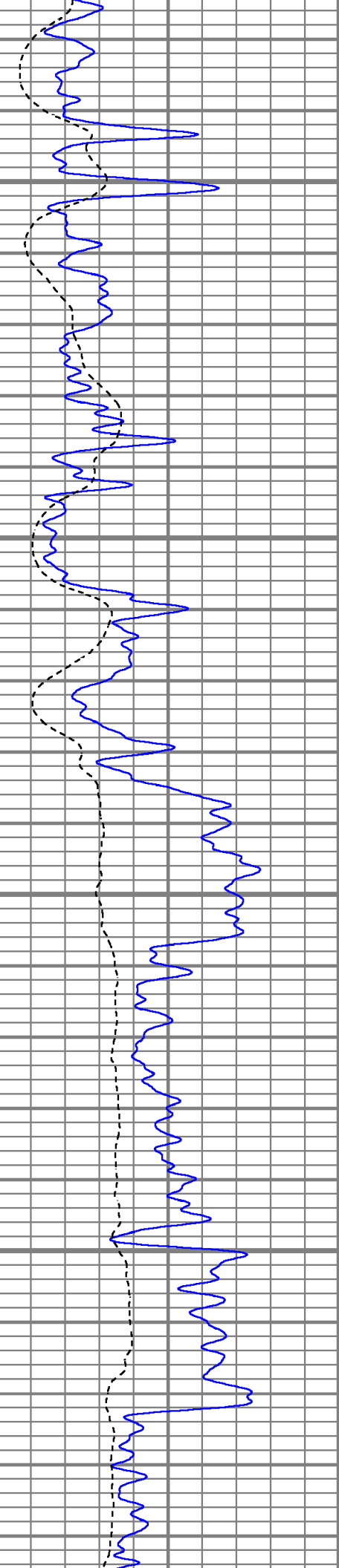
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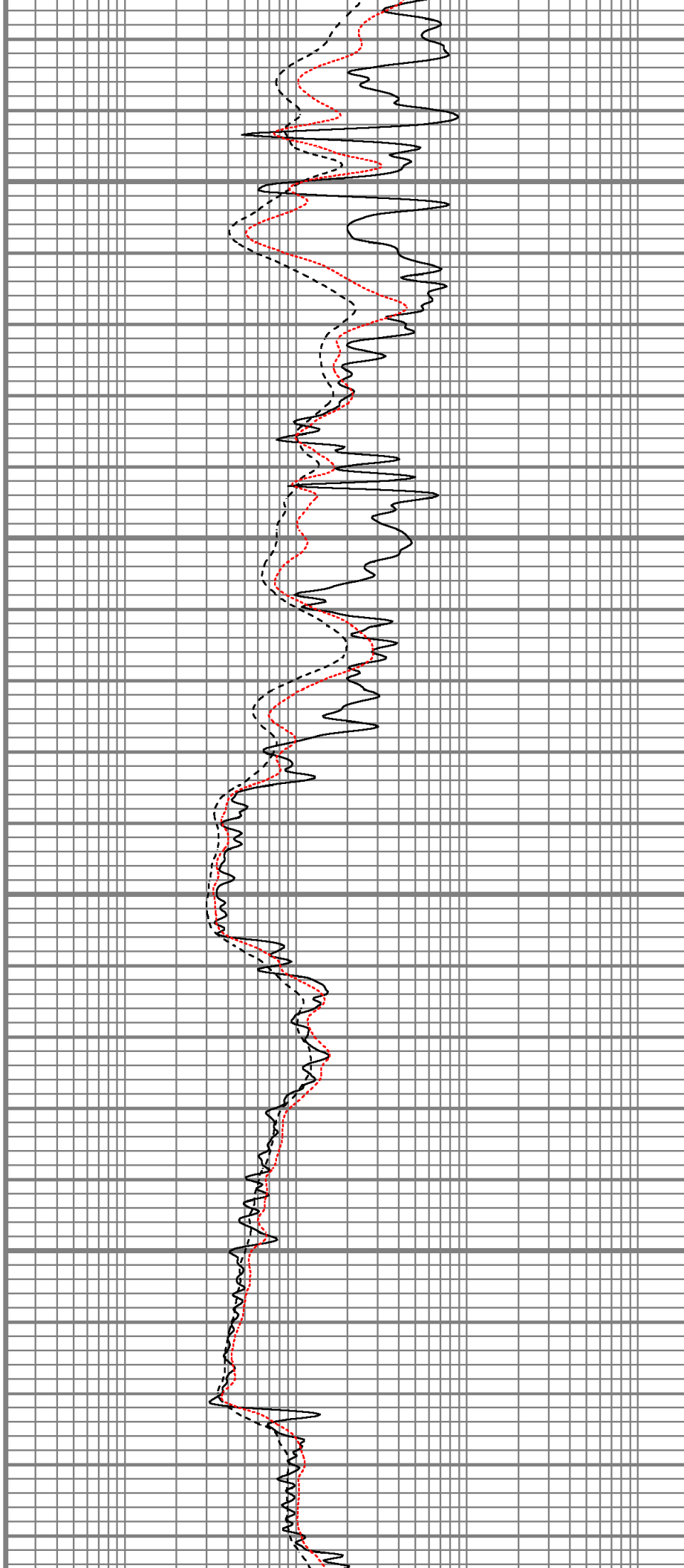


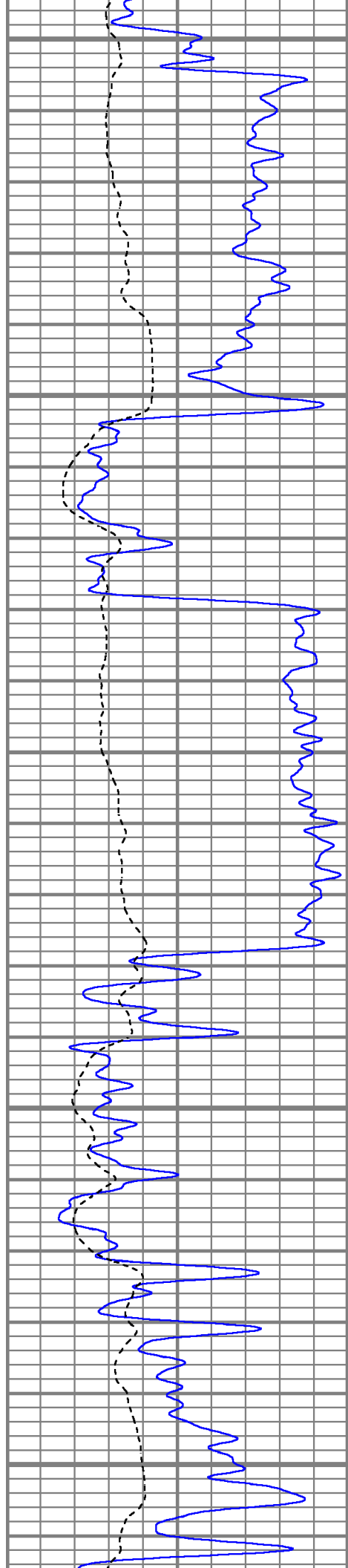
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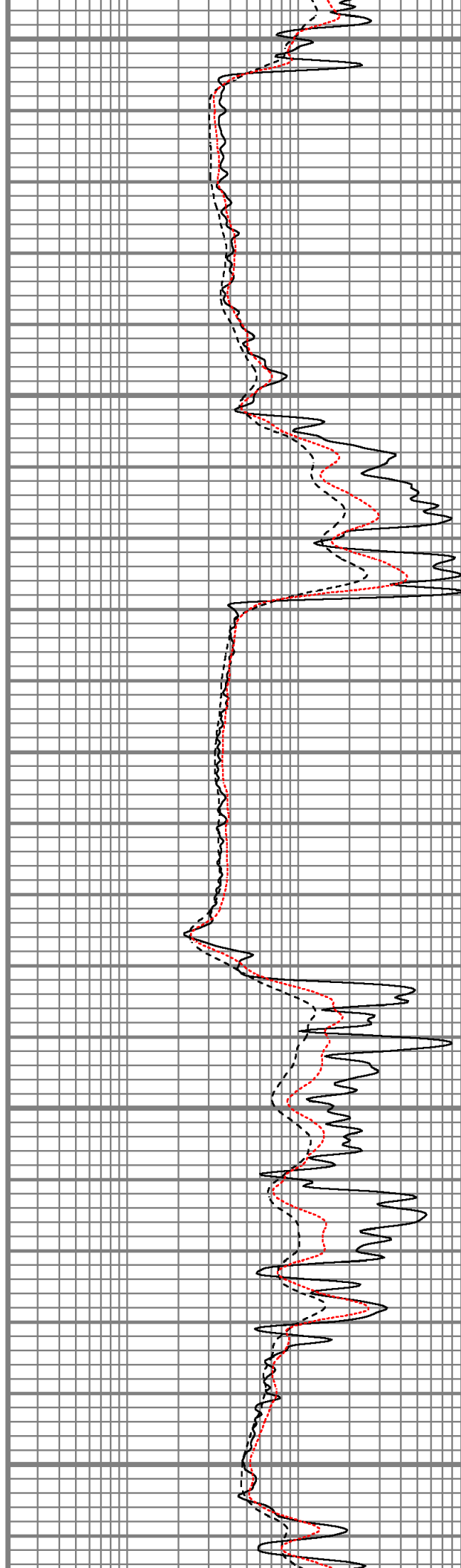
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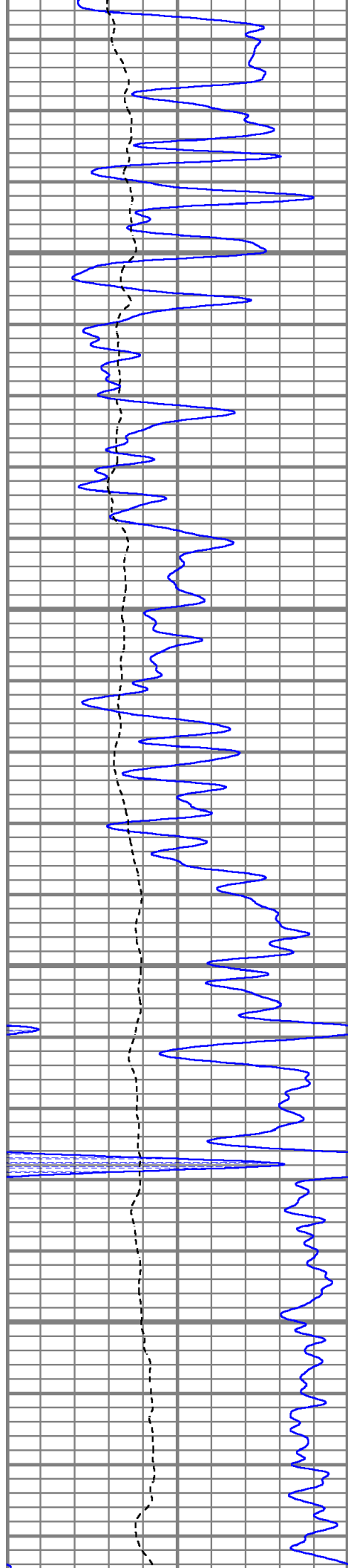
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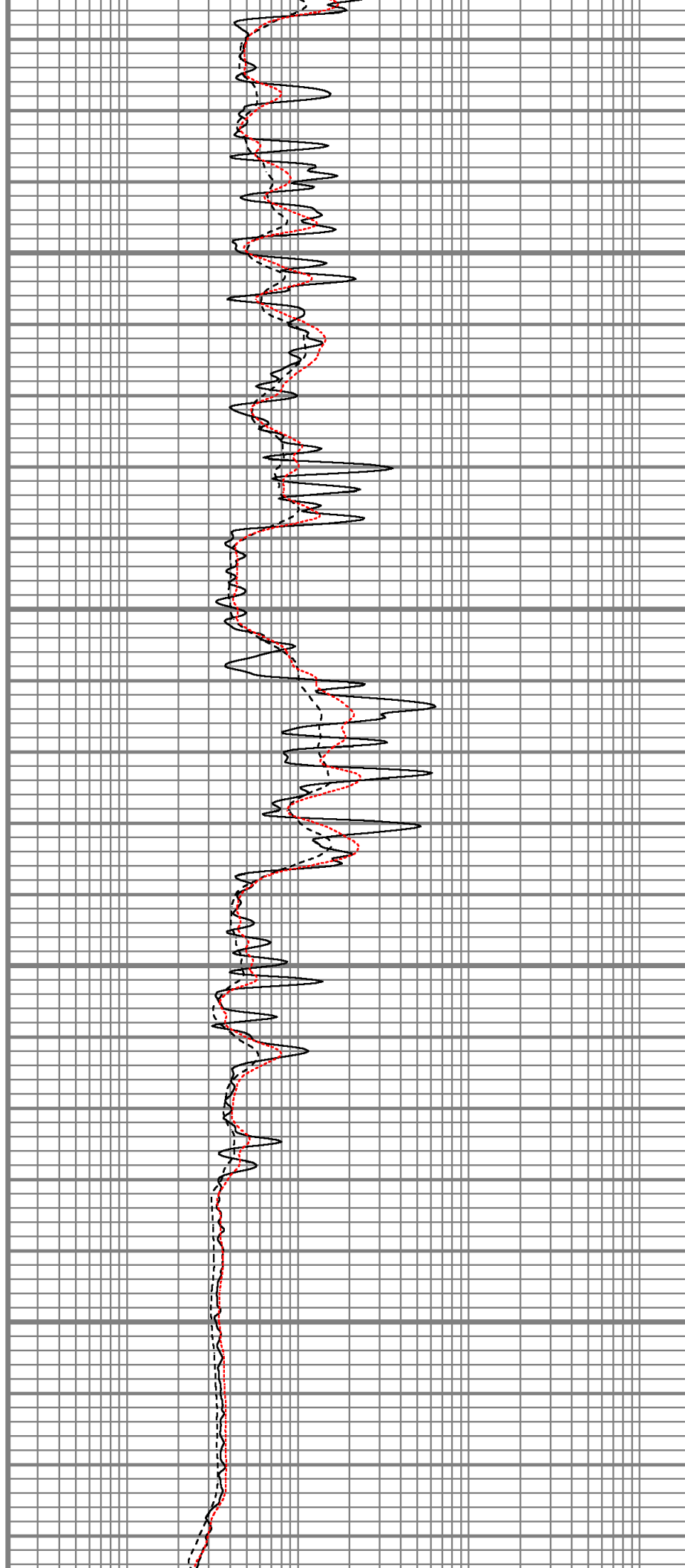


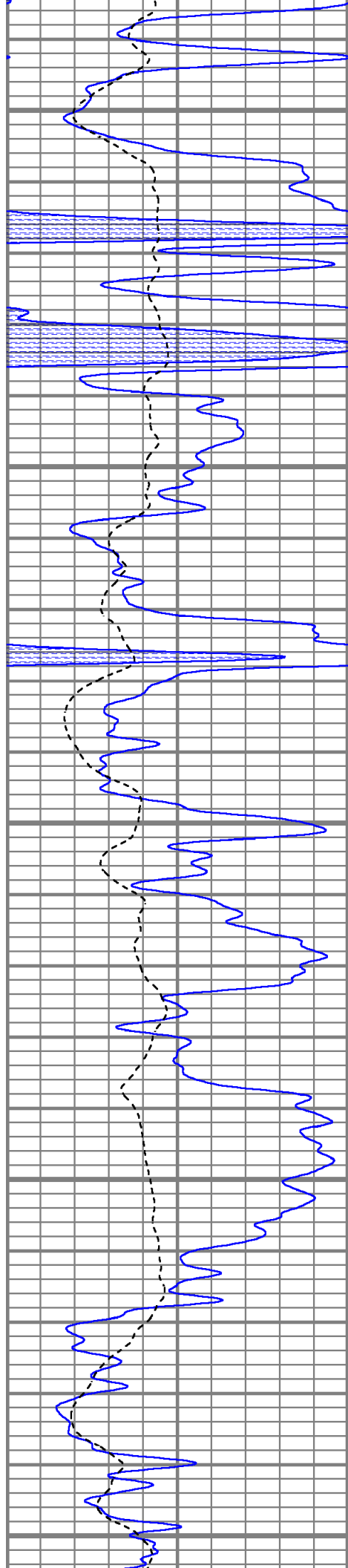
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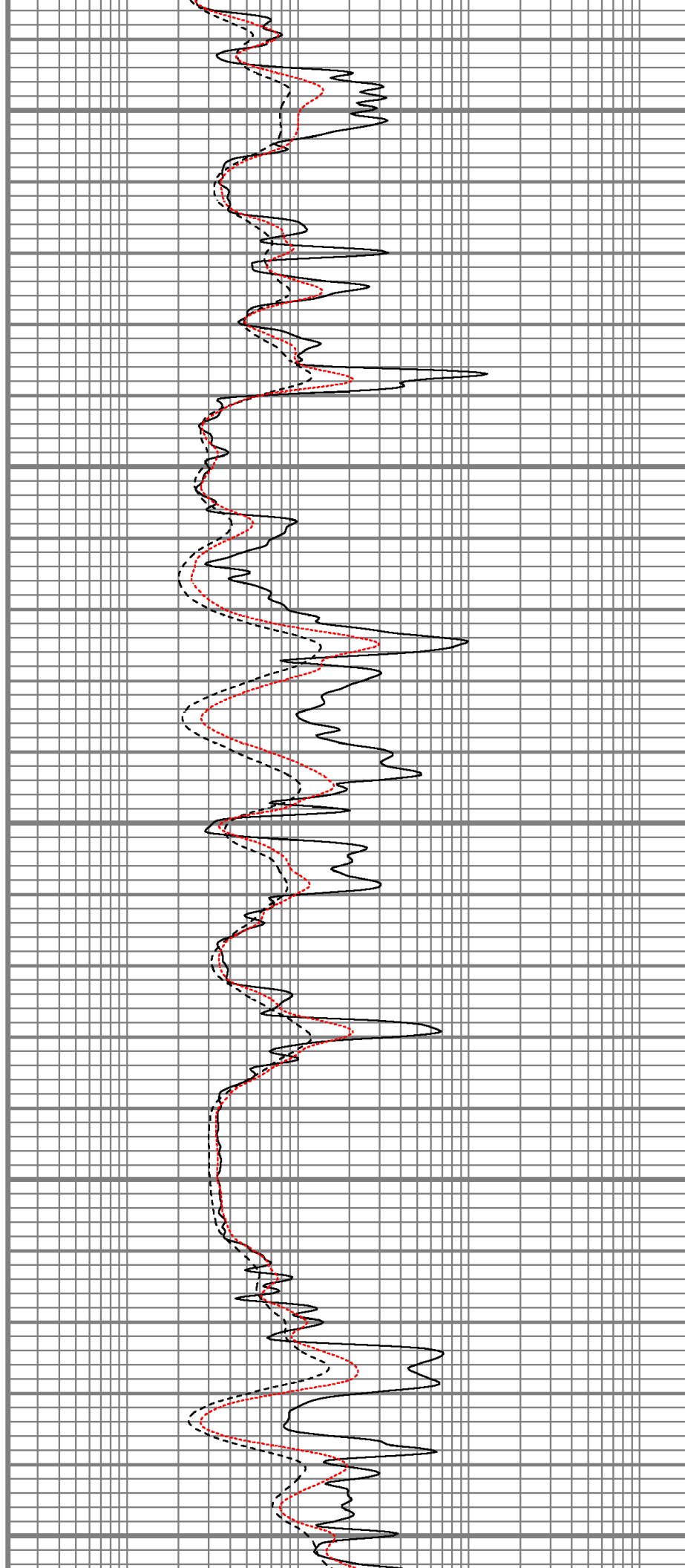
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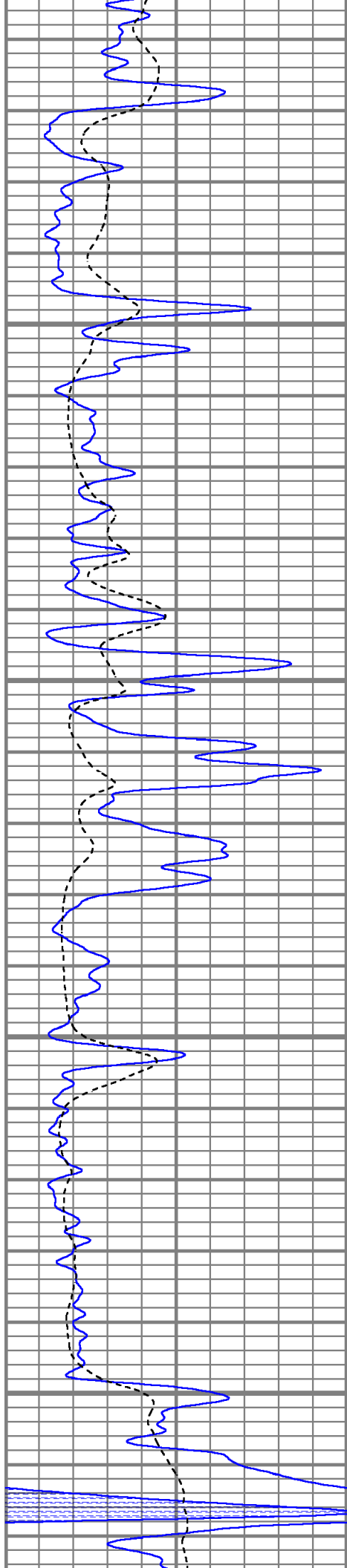
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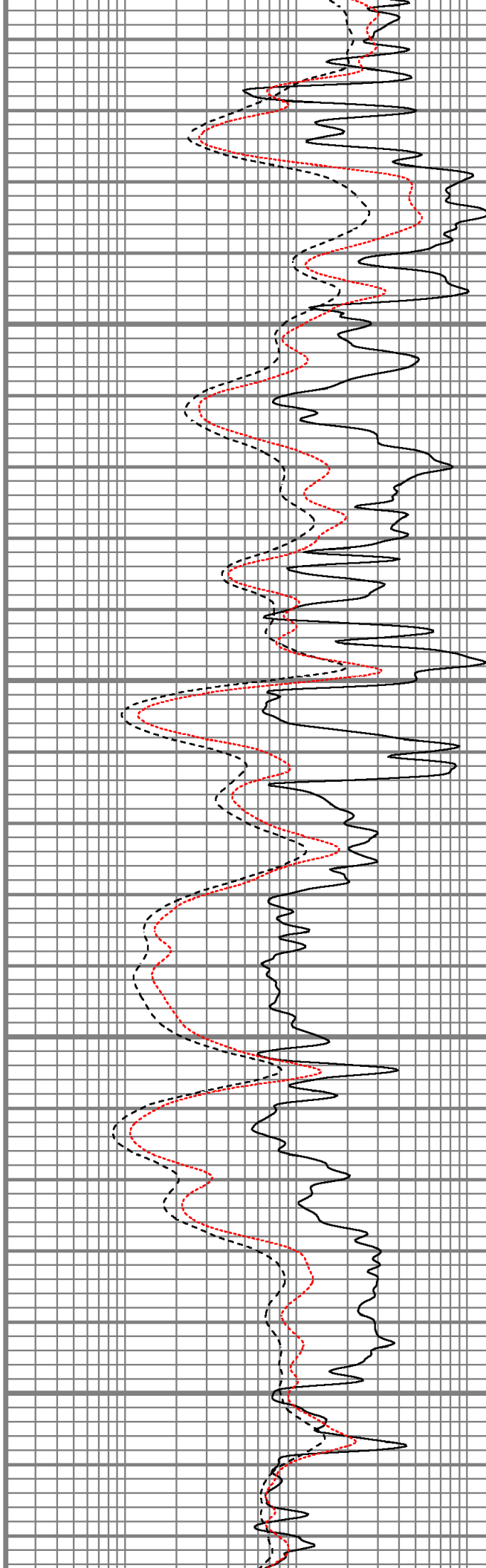


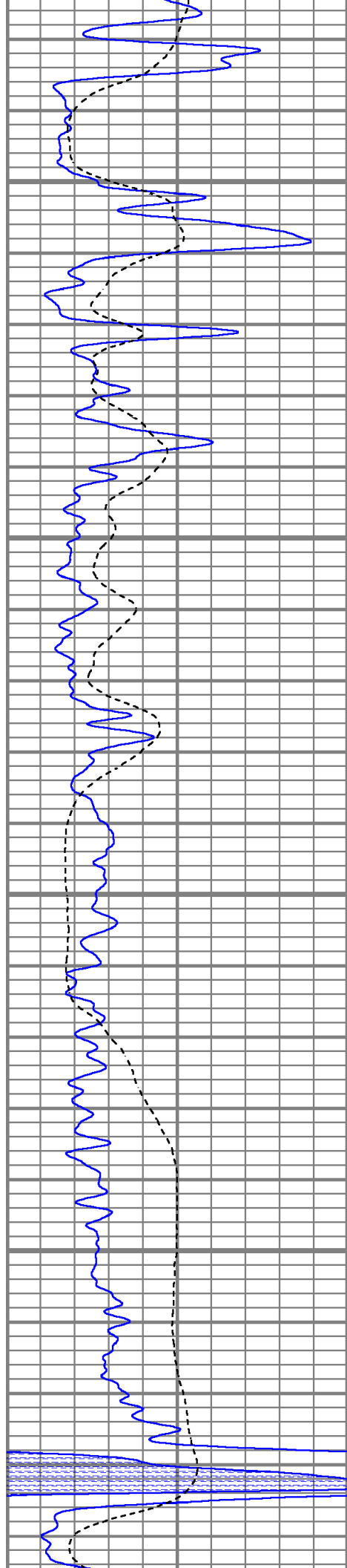
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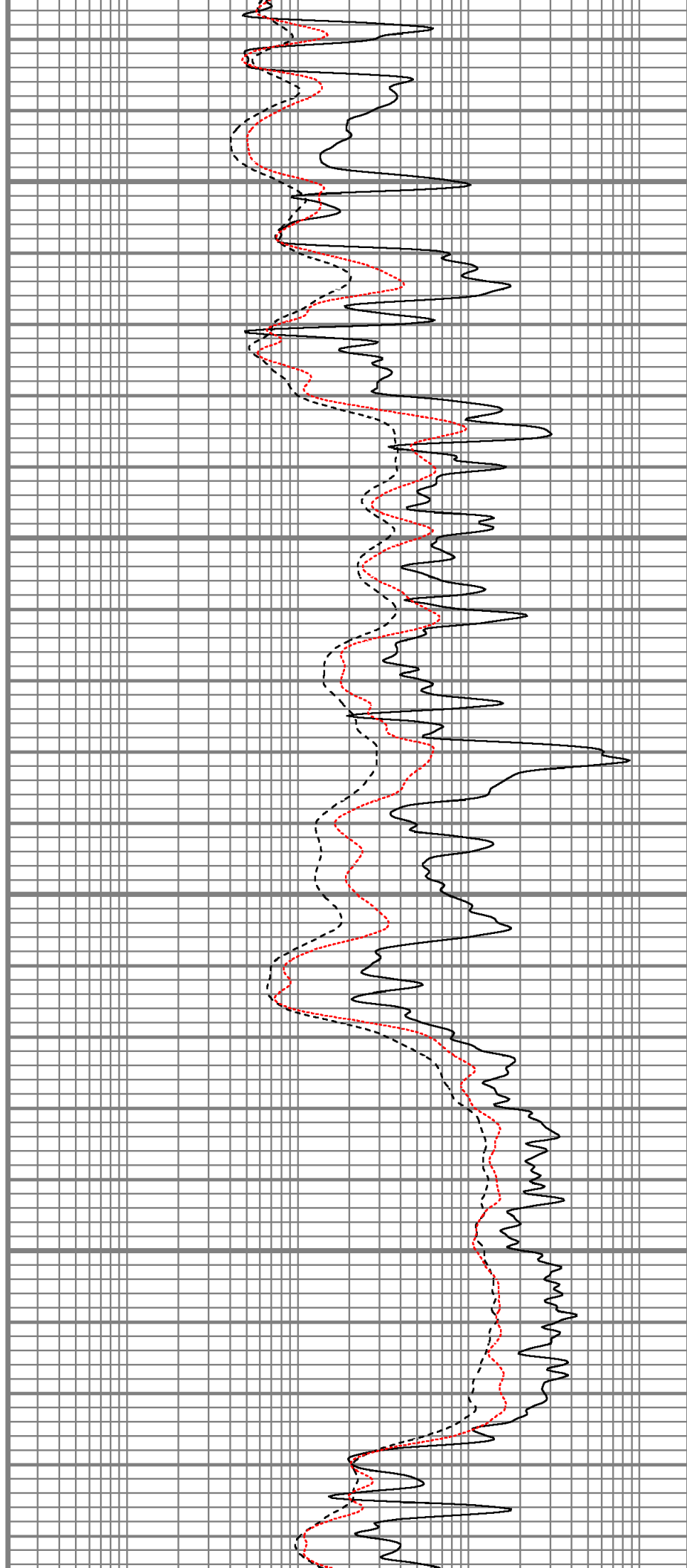


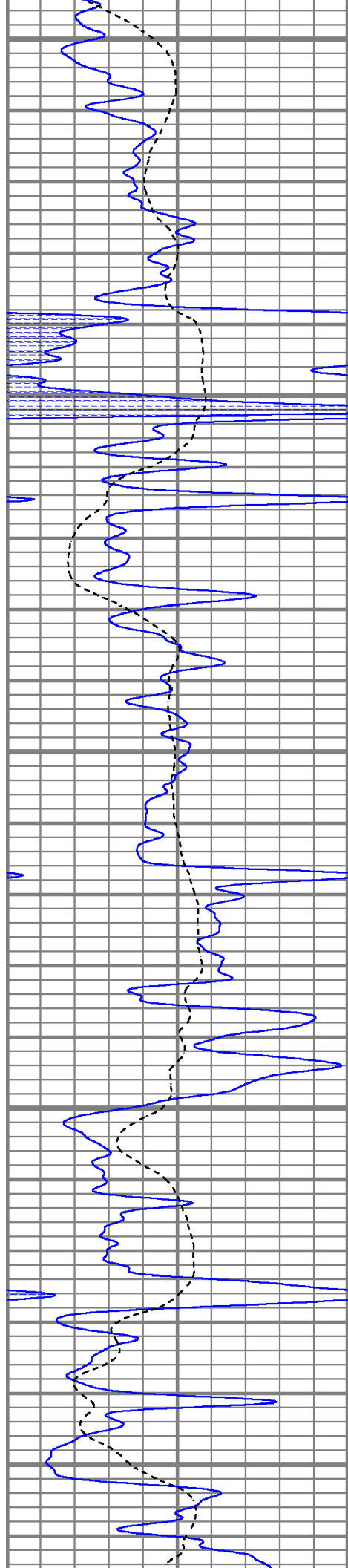
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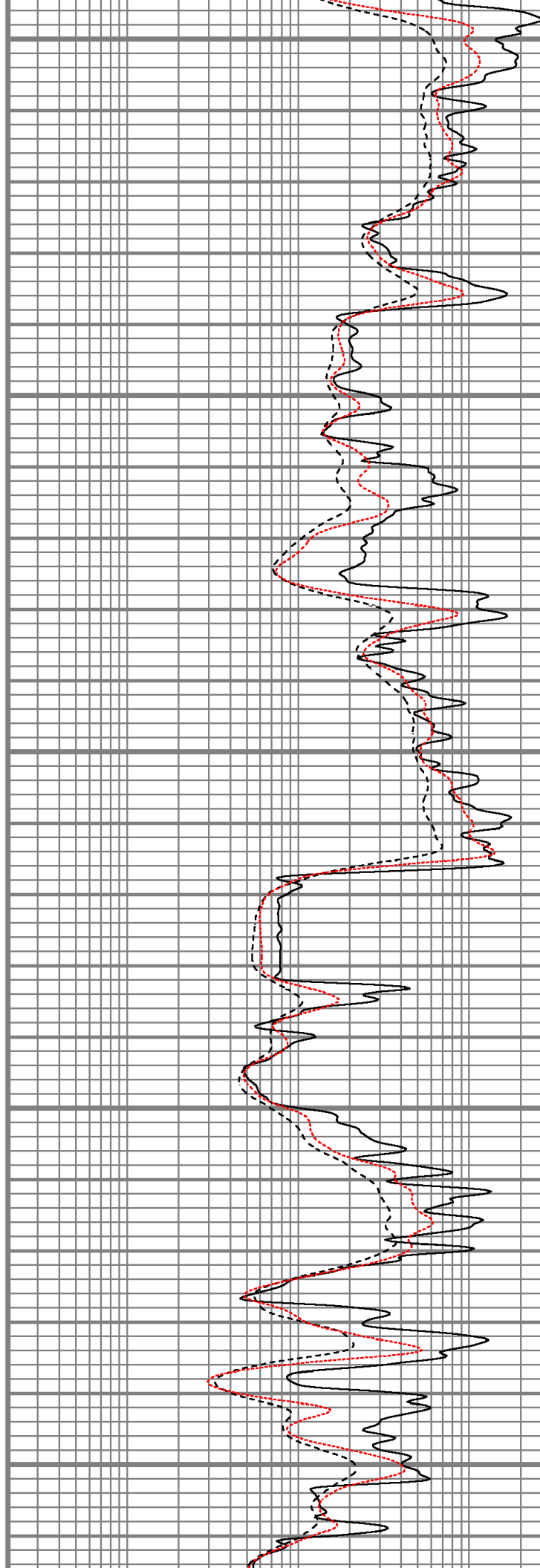
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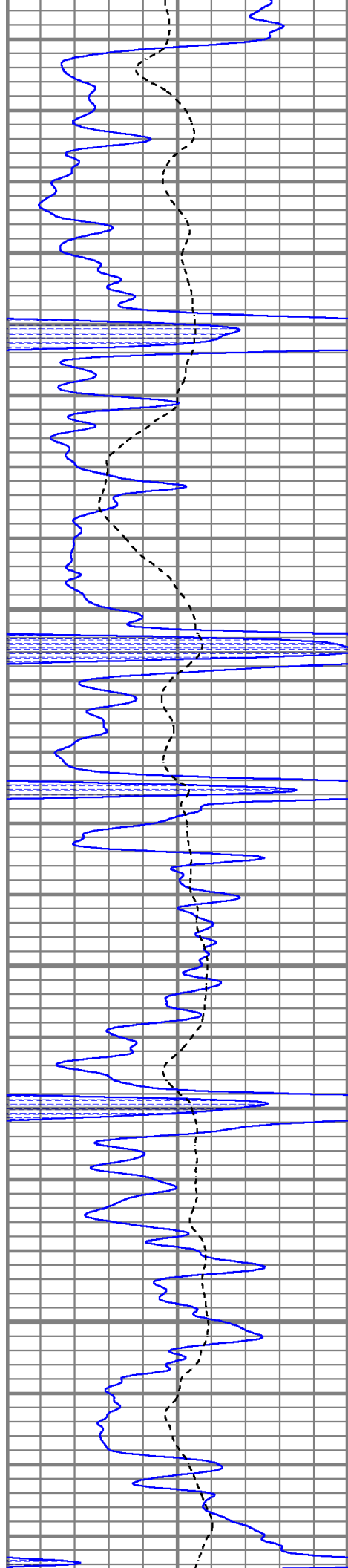
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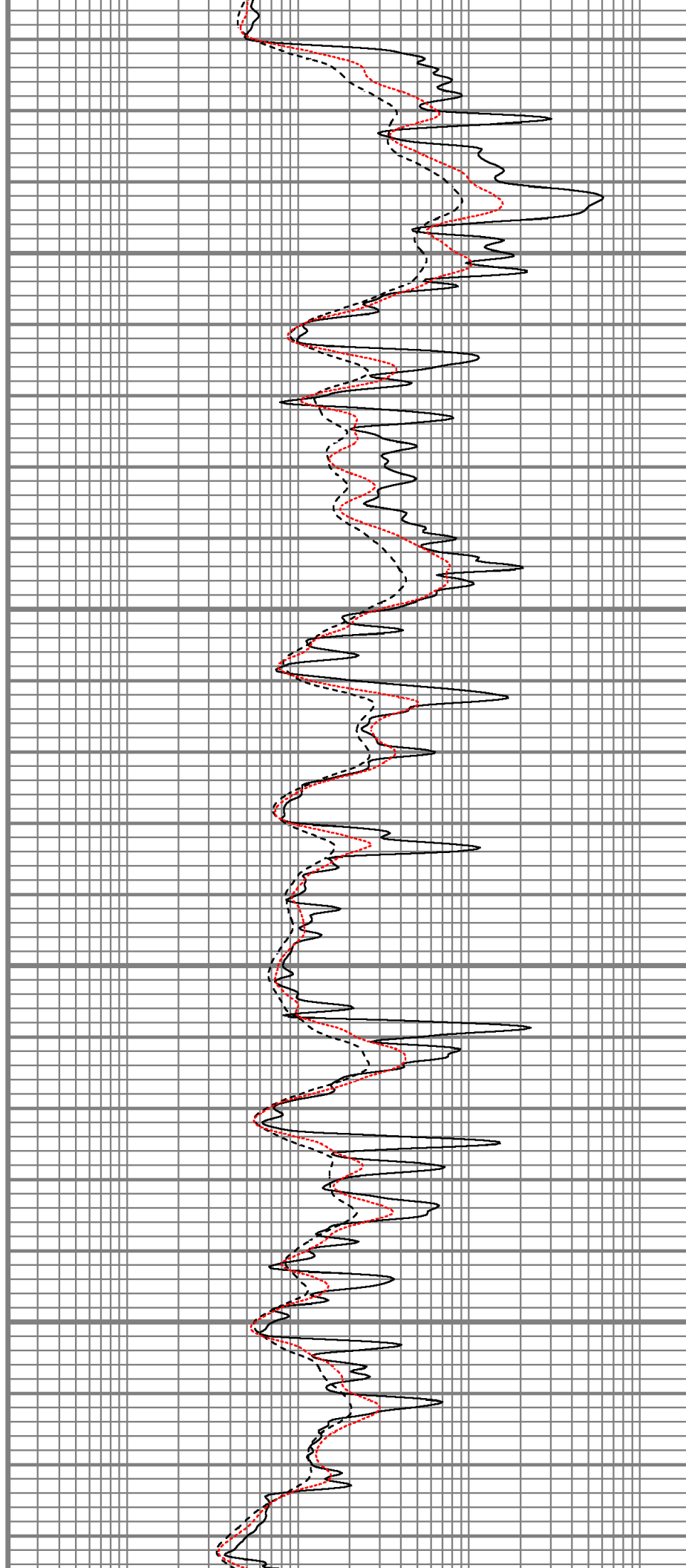


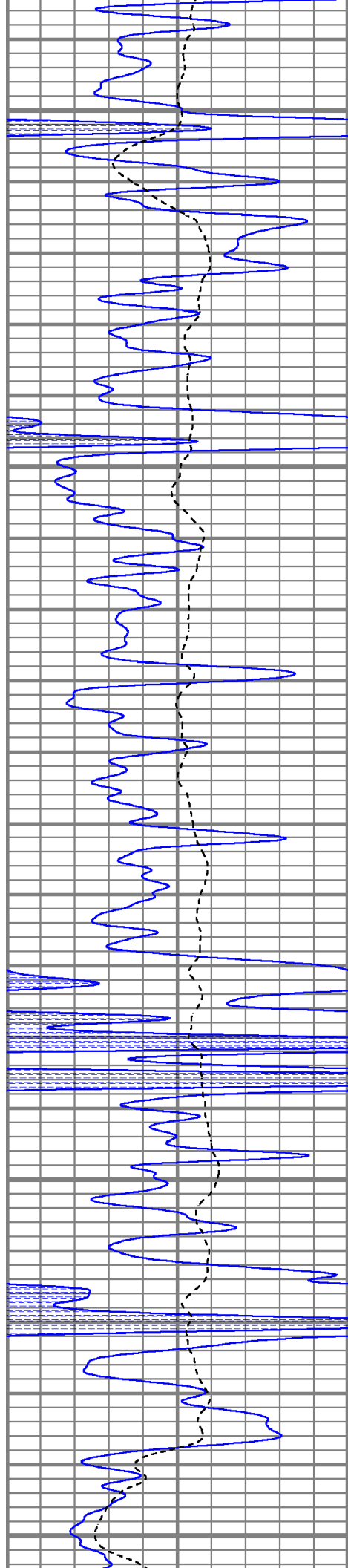
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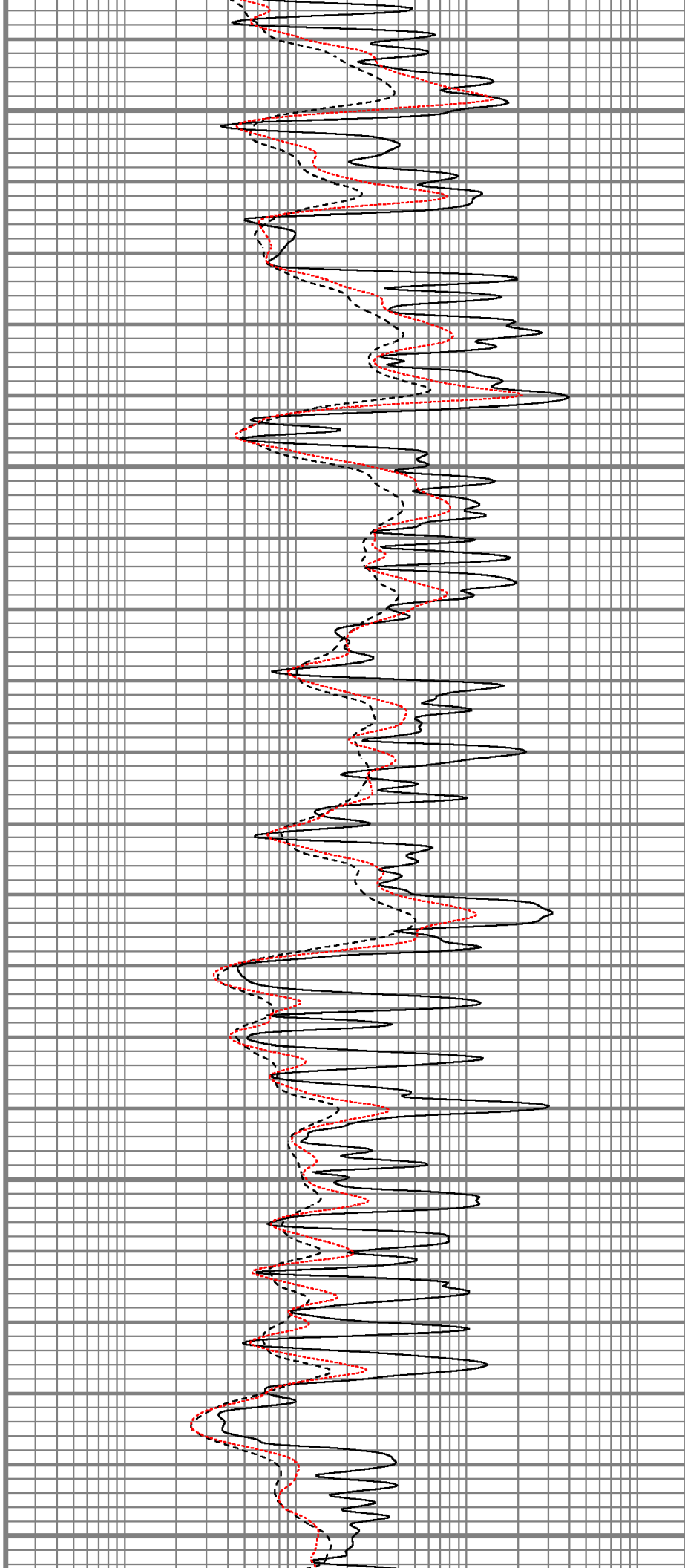
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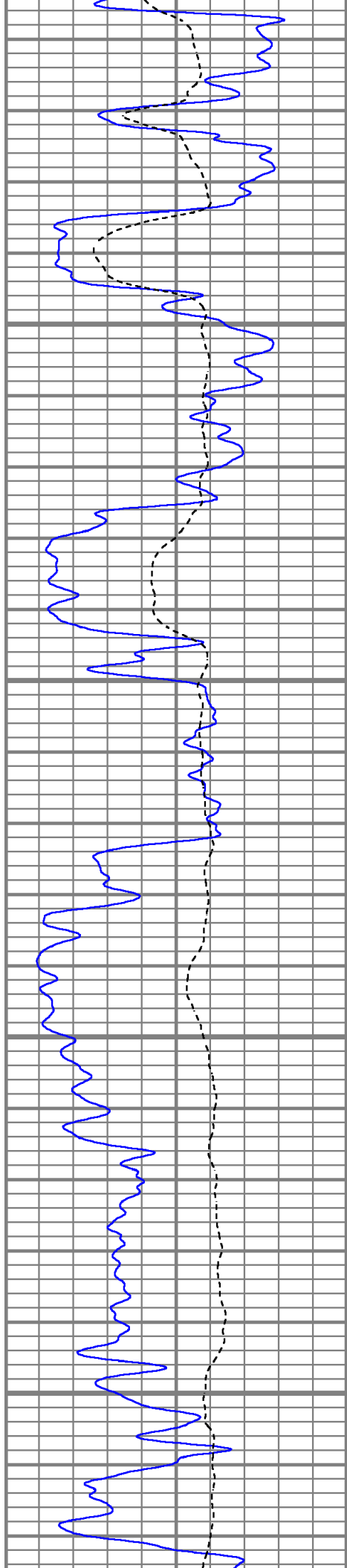
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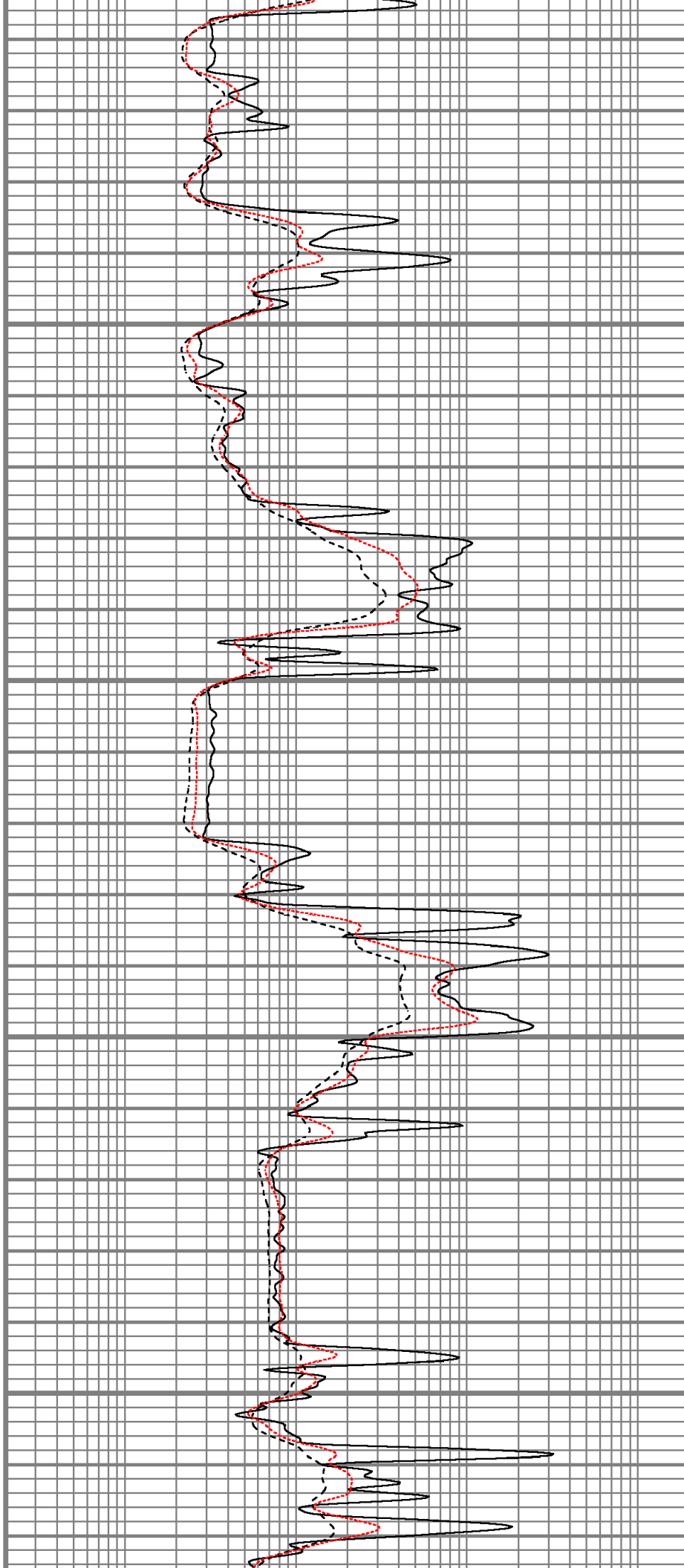


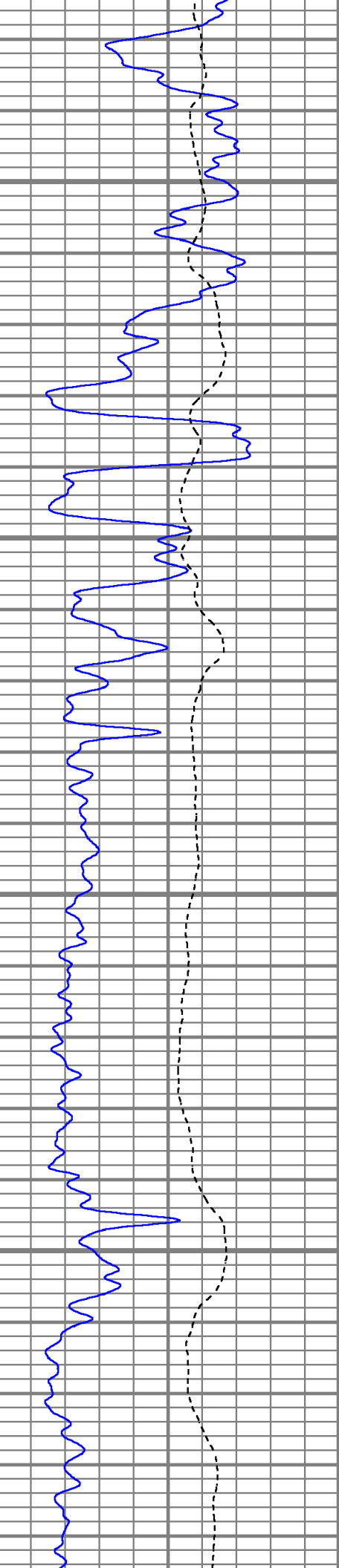
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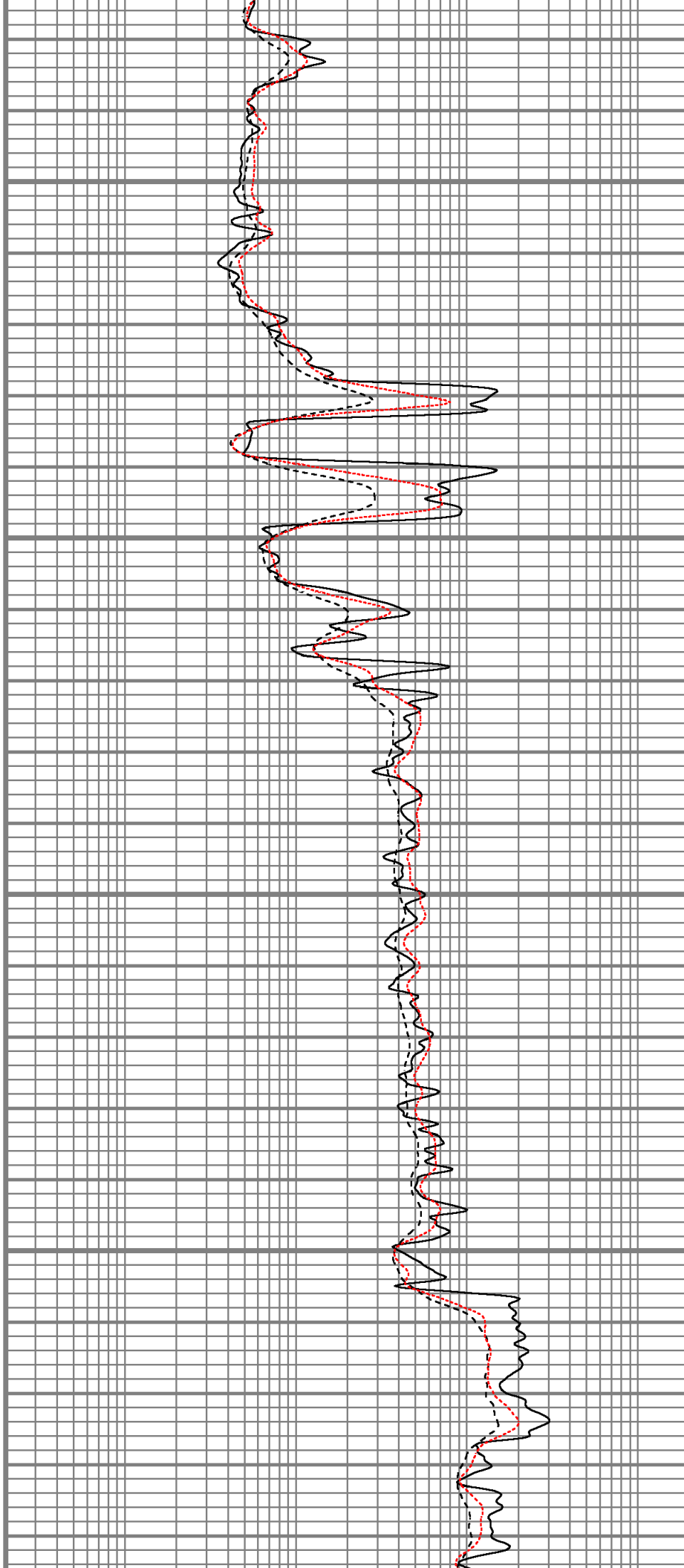


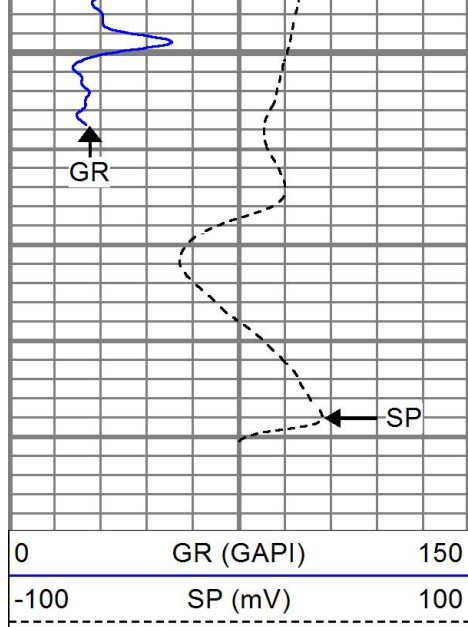
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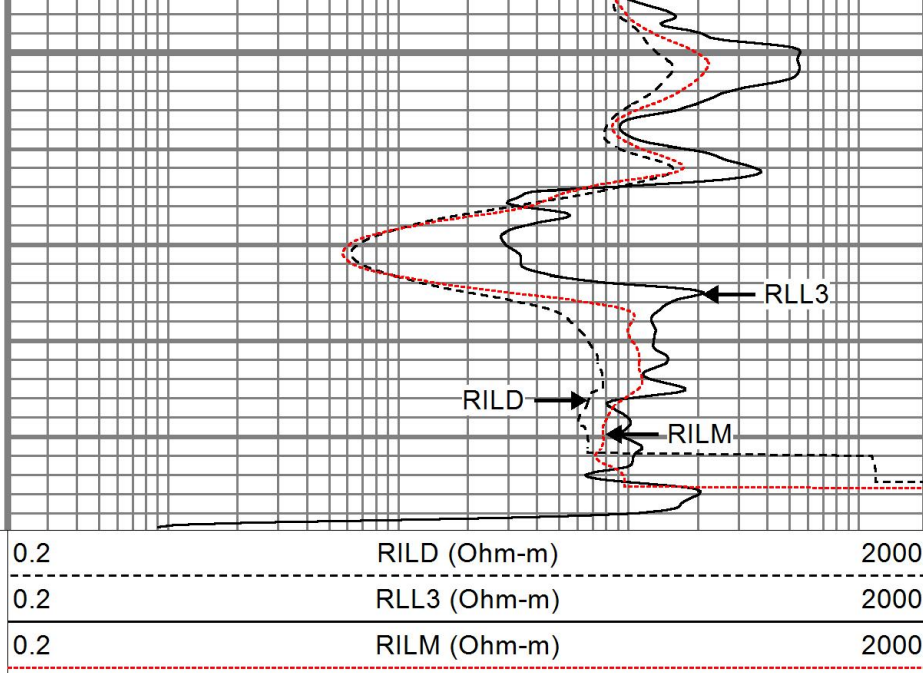
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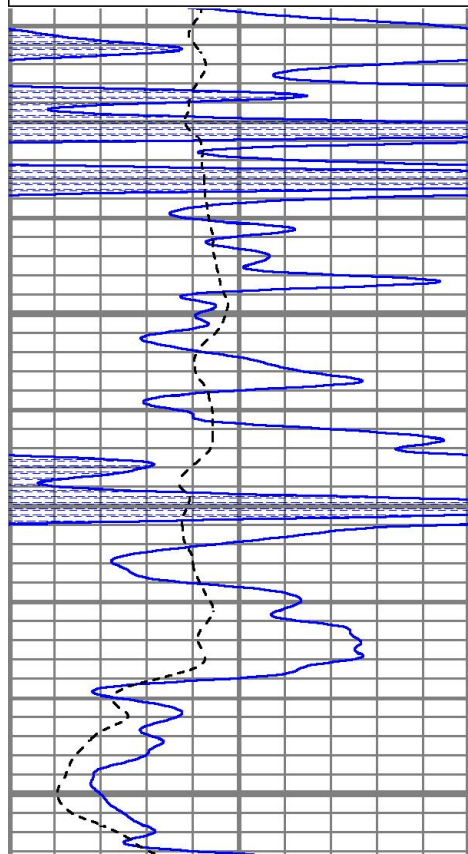
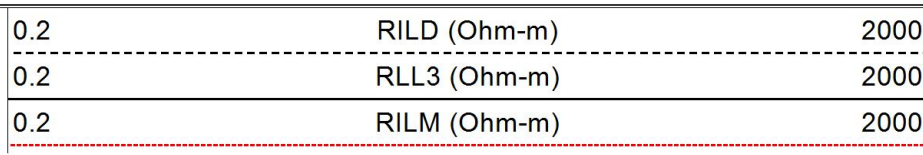
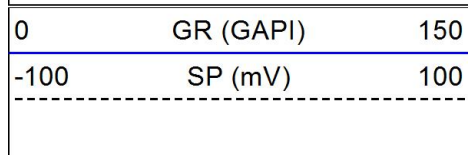
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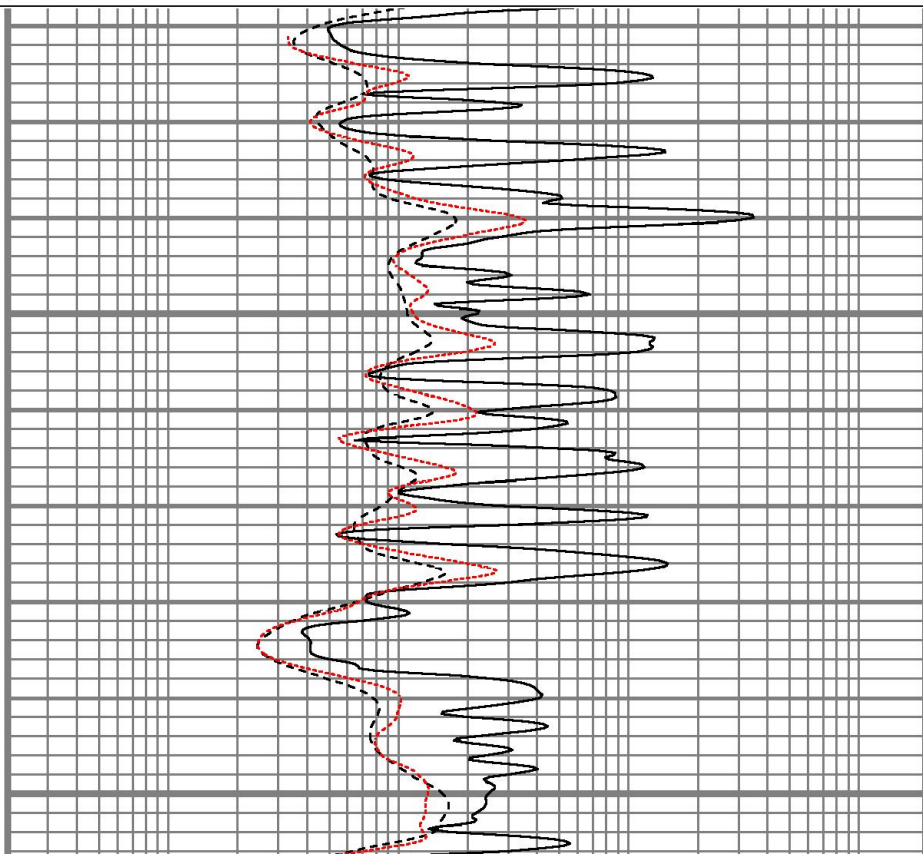
REPEAT SECTION

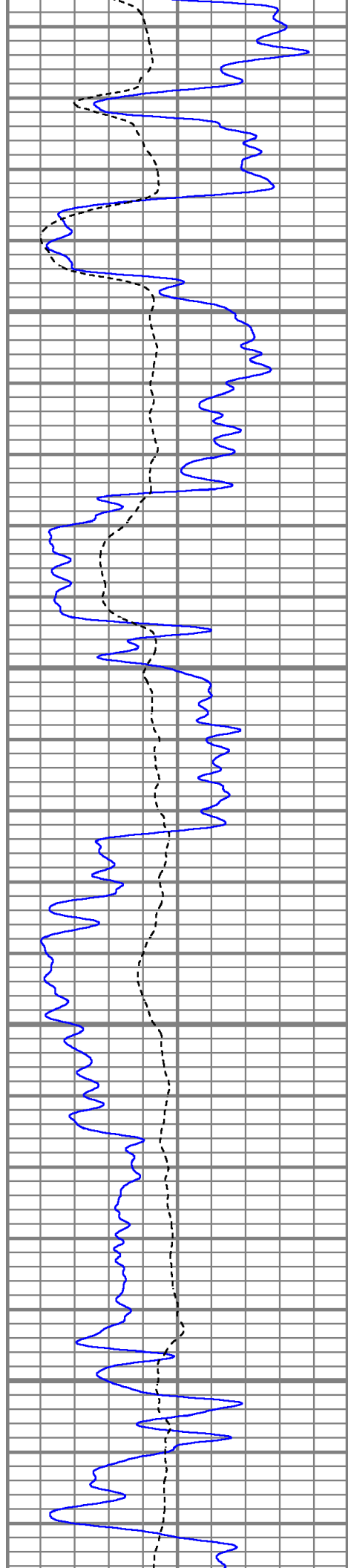
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 Dataset Pathname pass2.2
 Presentation Format kdil
 Dataset Creation Wed Dec 18 20:32:51 2019
 Charted by Depth in Feet scaled 1:240



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5700



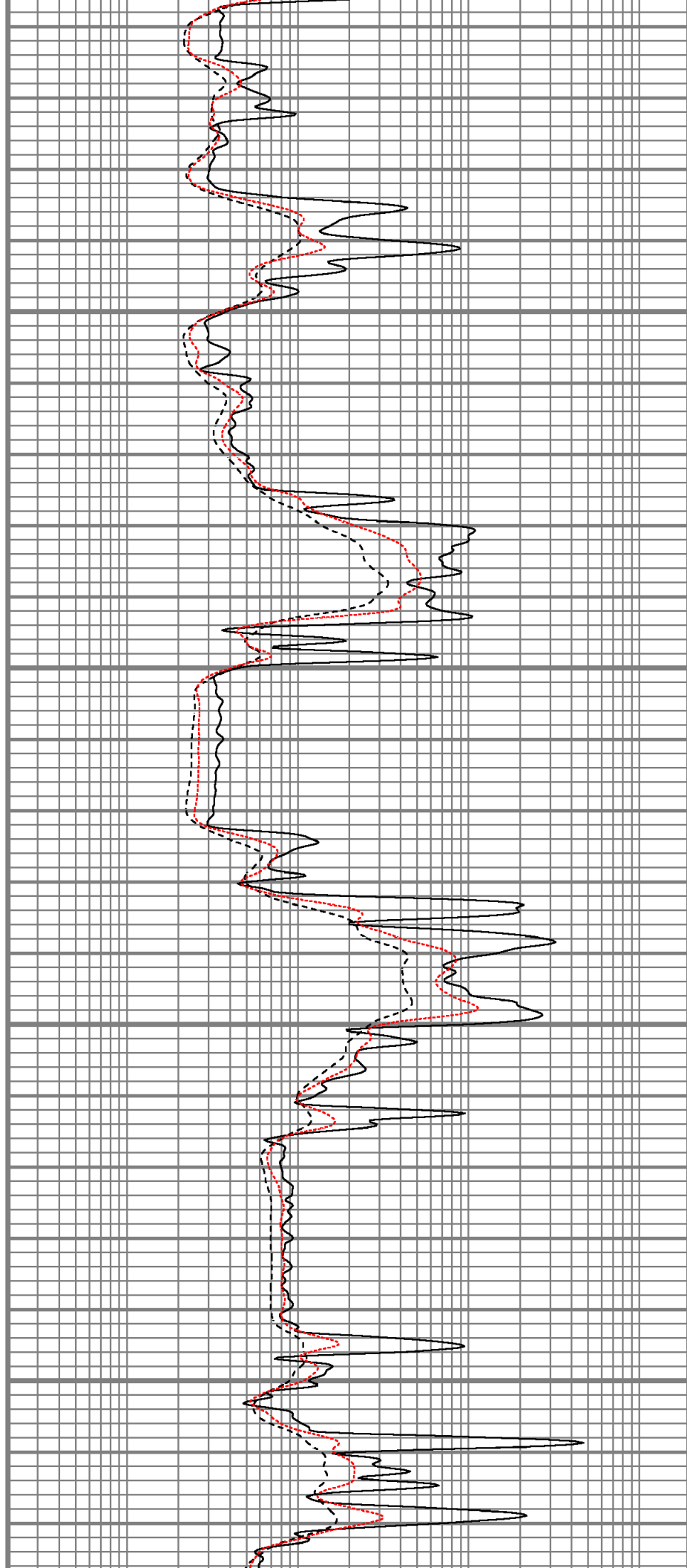


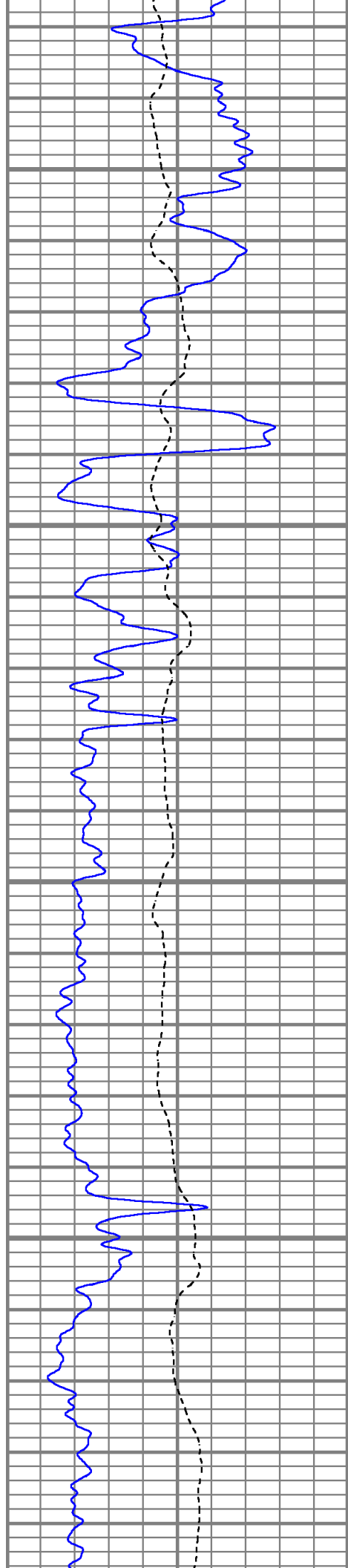
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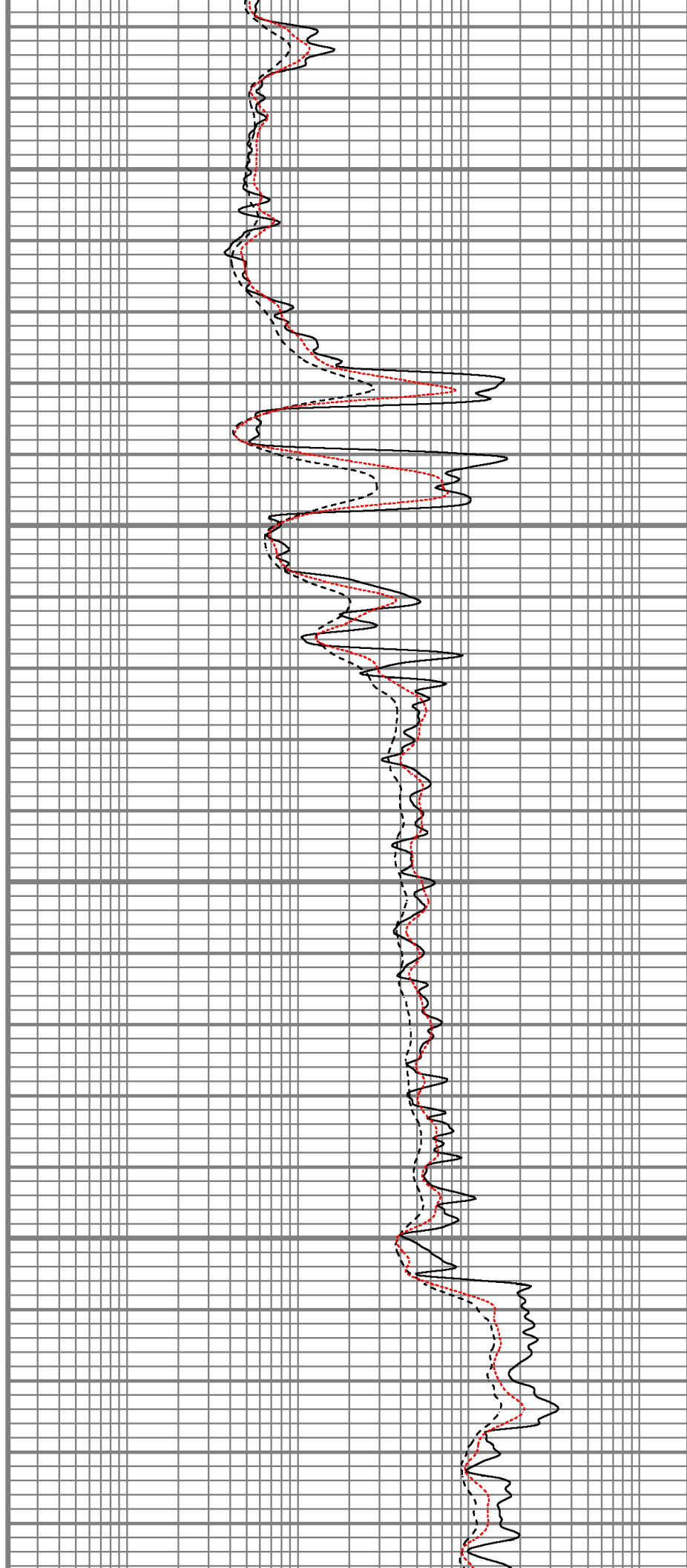


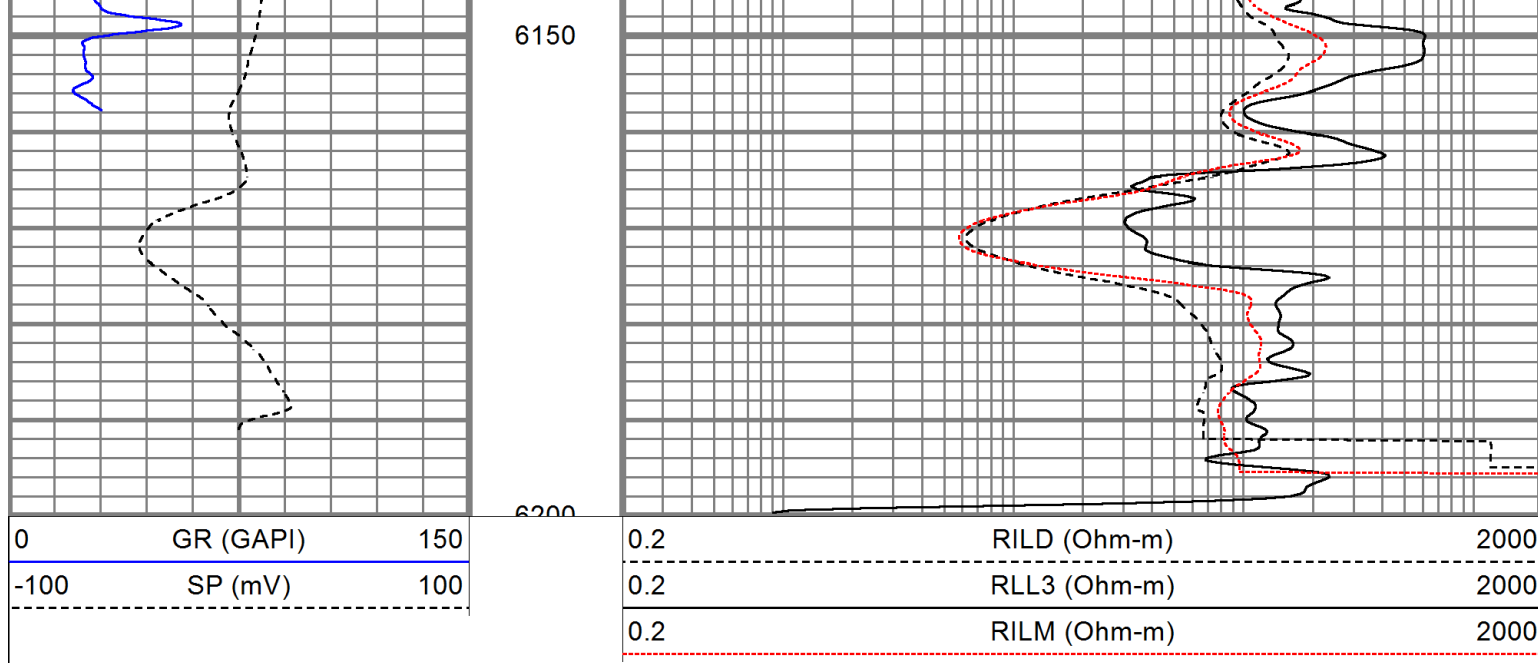
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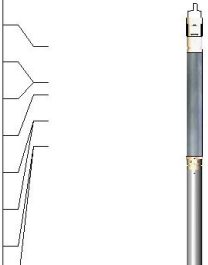
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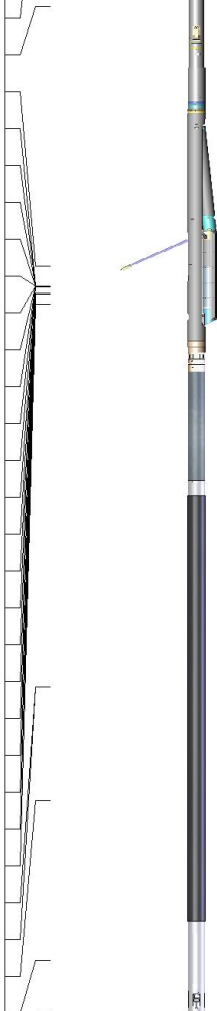




Calibration Report									
Database File	oberexfords#1-32oh.db								
Dataset Pathname	pass3.1								
Dataset Creation	Wed Dec 18 20:40:27 2019								
Dual Induction Calibration Report									
Serial-Model:		5375-G							
Surface Cal Performed:		Fri Apr 19 12:45:28 2019							
Downhole Cal Performed:		Fri Apr 19 12:45:28 2019							
After Survey Verification Performed:		Fri Apr 19 12:45:28 2019							
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.002	0.642	V	0.000	350.000	mmho/m	546.631	-1.028	
Medium	0.006	0.727	V	0.000	400.000	mmho/m	555.208	-3.897	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.002	0.642	V	0.000	350.000	mmho/m	546.502	-0.822	
Medium	0.006	0.727	V	0.000	550.000	mmho/m	763.570	-4.829	
Downhole Calibration									
Readings				References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.000	0.000	mmho/m	-0.206	349.877	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	0.014	399.930	mmho/m	1.000	0.000	
Shallow	2.429	0.011	V	500.000	2.000	Ohm-m	200.929	0.882	
After Survey Verification									
Readings				Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000	
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000	

Neutron Calibration Report					
Serial Number:	AD5139				
Tool Model:	ADMY5139				
Performed:	(Not Performed)				
Calibrator Value:	1	NAPI			
Calibrator Reading:	1	cps			
Sensitivity:	1	NAPI/cps			
Temperature Calibration Report					
Serial Number:	WithOutMC				
Tool Model:	WOMC				
Performed:	(Not Performed)				
	Reference		Reading		
Low Reference:	0.00	degF	0.00	degF	
High Reference:	1.00	degF	1.00	degF	
Gain:	1.00				
Offset:	0.00				
Delta Spacing	1				
Inclinometer Calibration Report					
Performed:	Thu Oct 25 16:29:34 2018				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee
Gamma Ray Calibration Report					
Serial Number:	WithOutMC				
Tool Model:	WOMC				
Performed:	Wed Dec 06 22:30:58 2017				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	1.0000	GAPI/cps			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.07		CHD-STD	0.50	1.69	1.00
ACCY	38.91		ADT-WOMC (WithOutMC) Telemetry Without Mud Cell	4.58	3.50	120.00
ACCX	38.91					
SSTAT	38.49		NEU-ADMY5139 (AD5139) Advanced NEU DIGITAL	5.65	3.50	50.00
PSTAT	37.66					
ASTAT	37.66					
GRD	36.82					

TEMP	36.82		Admyr NEU DIGITAL			9.29	3.50	240.00
NEU	32.76							
LStat	24.30							
LS8	23.64							
LS7	23.64							
LS6	23.64							
LS5	23.64							
LS4	23.64							
LS3	23.64							
LS2	23.64							
LS1	23.64							
LSV	23.64							
LSD	23.62							
SSV	23.43							
SS8	23.43							
SS7	23.43							
SS6	23.43							
SS5	23.43							
SS4	23.43							
SS3	23.43							
SS2	23.43							
SS1	23.43							
DCAL	23.37							
SSD	23.04							
SP	10.60							
CILD	10.60							
CILM	6.89							
RLL3	1.70							
TR_Mon	0.00							
		Dataset: oberexfords#1-32oh.db: field/well/run1/pass3.1						
		Total length: 41.49 ft						
		Total weight: 756.00 lb						
		O.D.: 4.00 in						