

<div><div>PIONEER</div><div><div>DUAL INDUCTION</div><div>FOCUSED LOG</div><div>GAMMA RAY LOG</div></div></div>		<div>Company: CARRIZO NIOBRARA</div> <div>Well: PTASNIK No.2-30-9-59</div> <div>Field: WILDCAT</div> <div>County: WELD</div> <div>State: COLORADO</div>		<div>COMPANY: CARRIZO NIOBRARA</div> <div>WELL: PTASNIK No.2-30-9-59</div> <div>FIELD: WILDCAT</div> <div>COUNTY: WELD</div> <div>STATE: COLORADO</div>		<div>Location</div> <div>446' FSL & 416' FWL SWSW</div> <div>SWC 30 TWP 9N R 59W</div> <div>API# 05-123-41239</div>		<div>Other Services</div> <div>NONE</div>		<div>Permanent Datum: GL</div> <div>Elevation: 4917' FT</div> <div>Log Meas. From: KB</div> <div>, 17 FT ABOVE PERM. DATUM</div> <div>Drill. Meas. From: KB</div> <div>Elevations</div> <div>K.B.: 4934 FT</div> <div>D.F.: 4933 FT</div> <div>G.L.: 4917 FT</div>		<div>Date</div> <div>22 APRIL 2015</div>		<div>Run Number</div> <div>1</div>		<div>Depth Driller</div> <div>6359' FT</div>		<div>Depth Logger</div> <div>5475 FT</div>		<div>Bottom Logged Interval</div> <div>5473 FT</div>		<div>Top Logged Interval</div> <div>1643 FT</div>		<div>Casing Driller</div> <div>9.625 IN. @ 1645 FT</div>		<div>Casing Logger</div> <div>1643 FT</div>		<div>Bit size</div> <div>8.75 IN.</div>		<div>Type Fluid in Hole</div> <div>CHEM GEL</div>		<div>Density / Viscosity</div> <div>9.5 #/GAL</div> <div>42 S</div>		<div>pH / Water Loss</div> <div>9.0</div> <div>6.4 CC</div>		<div>Source of Sample</div> <div>BOREHOLE</div>		<div>Rm @ Meas. Temp.</div> <div>0.92 Ohm-m @ 103 F</div>		<div>Rmf @ Meas. Temp.</div> <div>0.69 Ohm-m @ 103 F</div>		<div>Rmc @ Meas. Temp.</div> <div>1.15 Ohm-m @ 103 F</div>		<div>Source Rmf/Rmc</div> <div>CALC</div> <div>CALC</div>		<div>Rm at BHT</div> <div>0.58 Ohm-m @ 161 F</div>		<div>End Circulation</div> <div>0930 22 APRIL 2015</div>		<div>Logger on Bottom</div> <div>1500 22 APRIL 2015</div>		<div>Max. Recorded Temp.</div> <div>161</div>		<div>Equip. No / Location</div> <div>110 FORT MORGAN</div>		<div>Recorded by</div> <div>D.TRAVIS</div>		<div>Witnessed by</div> <div>C. CHRISTENSEN</div>		<div>BOB MCNEESE</div>	
----Fold Here----																																																													
<div>All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services cannot and do not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services will 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 the Pioneer Wireline Services general terms and conditions as set out in our current Price Schedule.</div>																																																													
<div>REMARKS</div> <div>SERVICE ORDER 2-013979</div> <div>NO REPEAT DUE TO WEIGHT PULLS AT BOTTOM OF HOLE, OK PER CUSTOMER</div> <div>DID NOT GO BELOW 5500' PER CUSTOMER</div> <div>THANK YOU FOR USING PIONEER WIRELINE SERVICES.</div>																																																													
EQUIPMENT DATA																																																													
Run		Trip		Instrument				Instrument Type No.				Serial No.				Distance to Reference																																													
				Cable Head								1809CableHead				0.000 ft																																													
				TCMRT				024				1831A				2.690 ft																																													
				Telemetry				021				0930A				7.562 ft																																													
				DIL				018				1141B				11.860 ft																																													

TCMRT

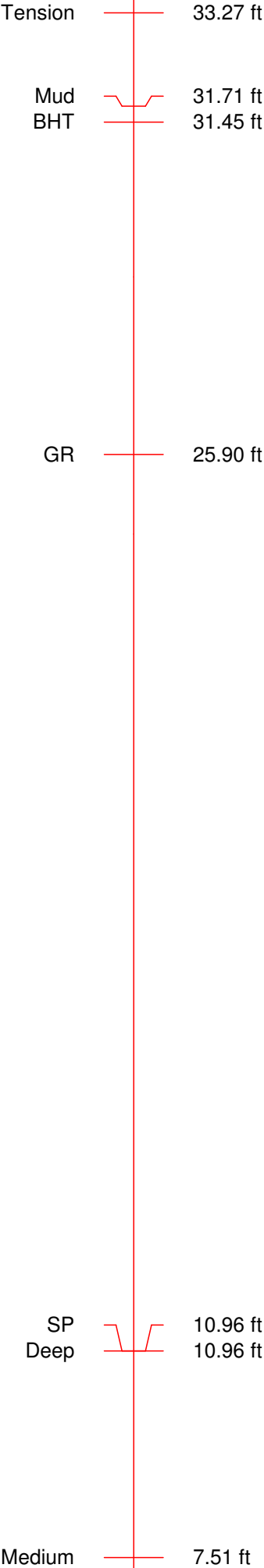
Identifier : 1831A
Asset Number : 024
Length : 4.872 ft
Diameter : 3.4 inch
Weight : 103.6 lbs
Measure Point : 2.575 ft : BHT
Measure Point : 2.838 ft : Mud
Measure Point : 4.396 ft : Tension

Telemetry

Identifier : 0930A
Asset Number : 021
Length : 4.298 ft
Diameter : 3.4 inch
Weight : 75.4 lbs
Measure Point : 1.329 ft : GR

DIL

Identifier : 1141B
Asset Number : 018
Length : 24.573 ft
Diameter : 3.6 inch
Weight : 295.4 lbs
Measure Point : 1.673 ft : LL8
Measure Point : 7.513 ft : Medium
Measure Point : 10.958 ft : Deep
Measure Point : 10.958 ft : SP



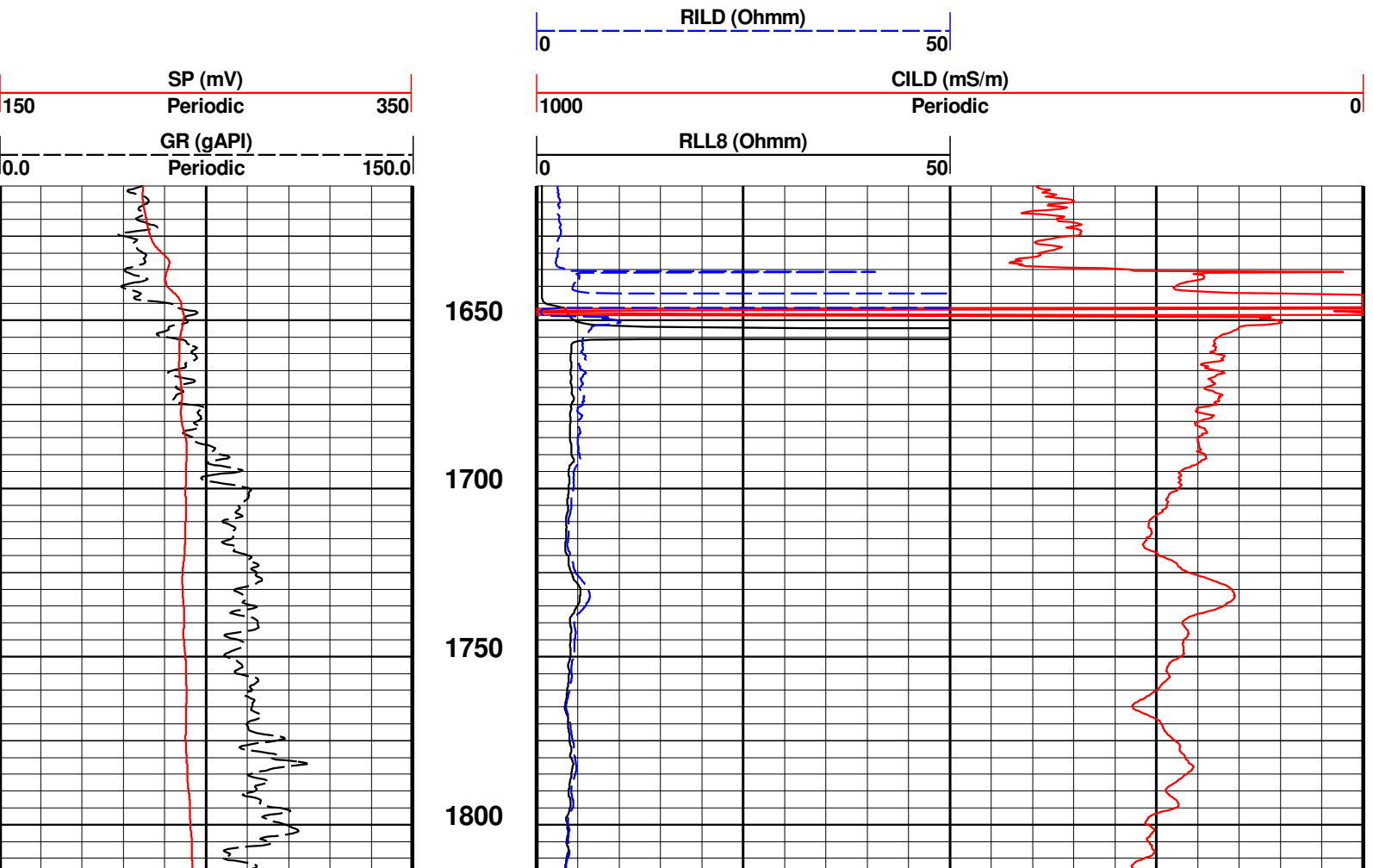
LL8 1.67 ft
0.00 ft

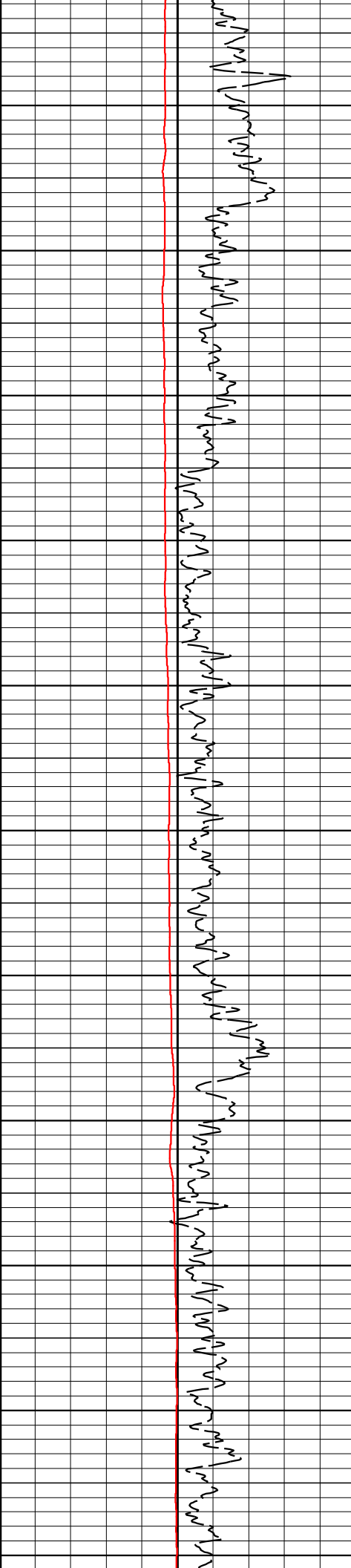
Total Length : 36.43 ft
Total Weight : 511.69 lbs
Max Diameter : 3.6 inch

2 INCH / 100'

Company : CARRIZO NIOBRARA
Well : PTASNIK No.2-30-9-59
Scale : 1 : 600
Depth in : ft
Software : WinAPIot Ver. 5, 89, 15, 0

Date : 21.04.2015
Time : 14:54:40
Remarks : SERVICE ORDER 2-013979
File Name : MAIN PASS GOOD





1850

1900

1950

2000

2050

2100

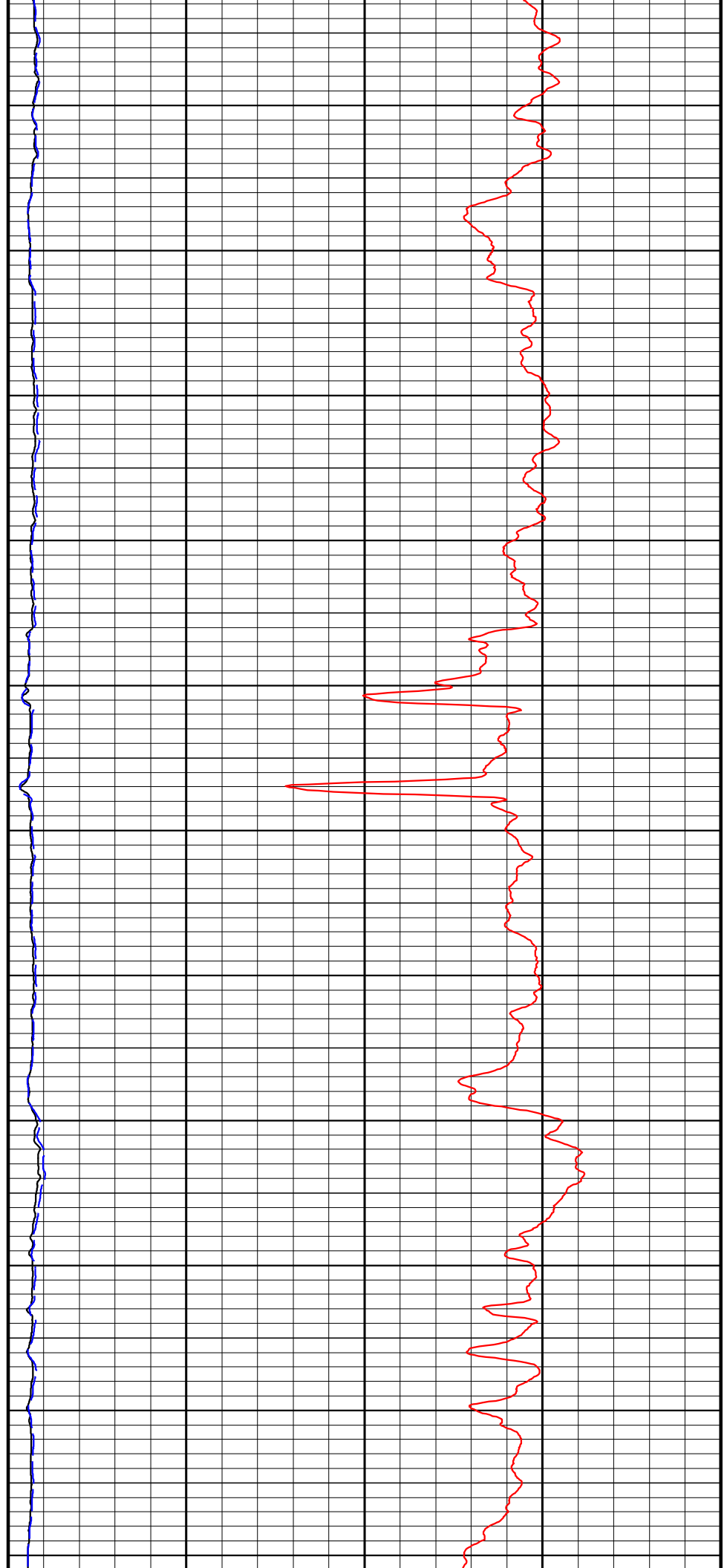
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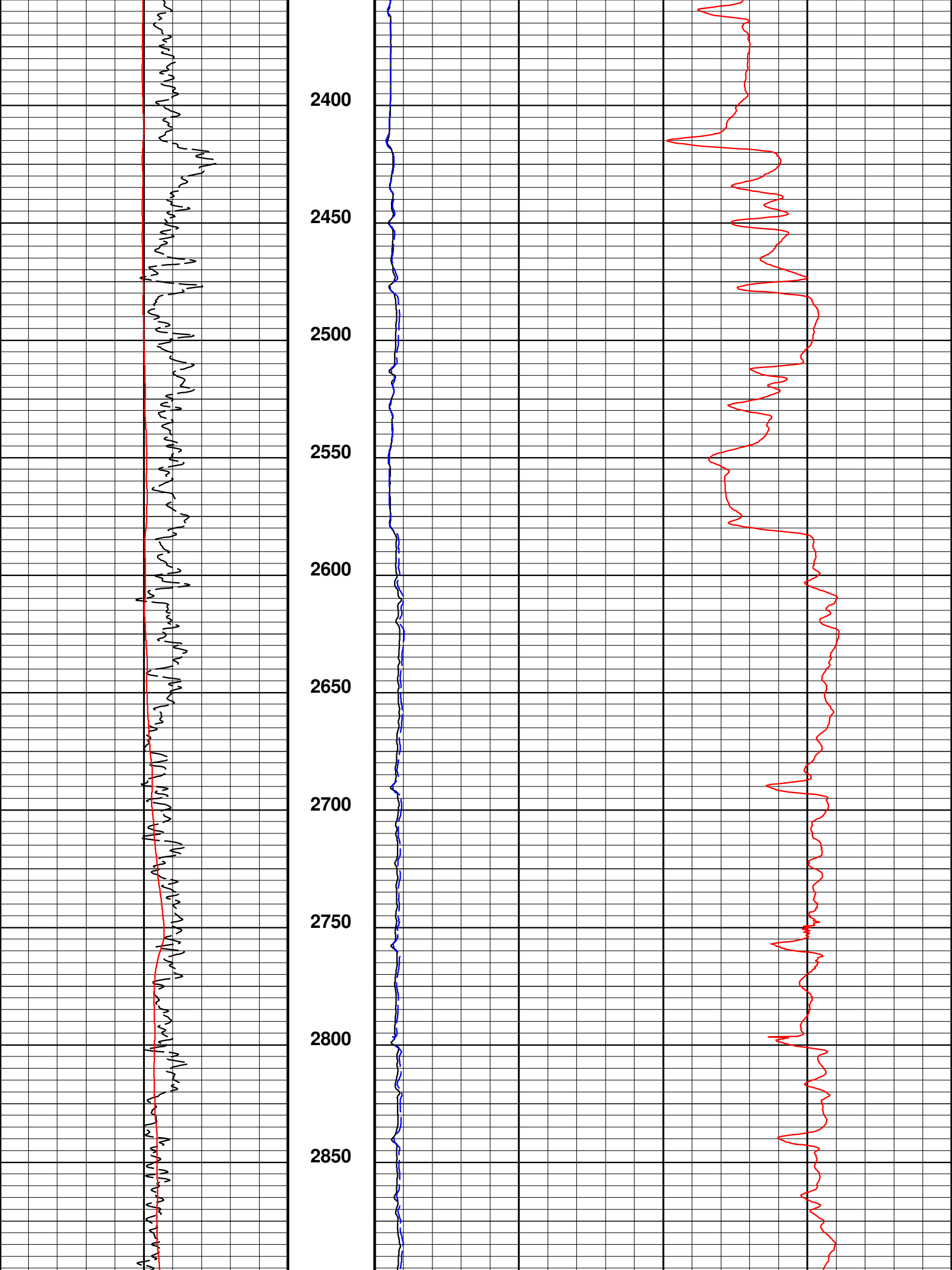
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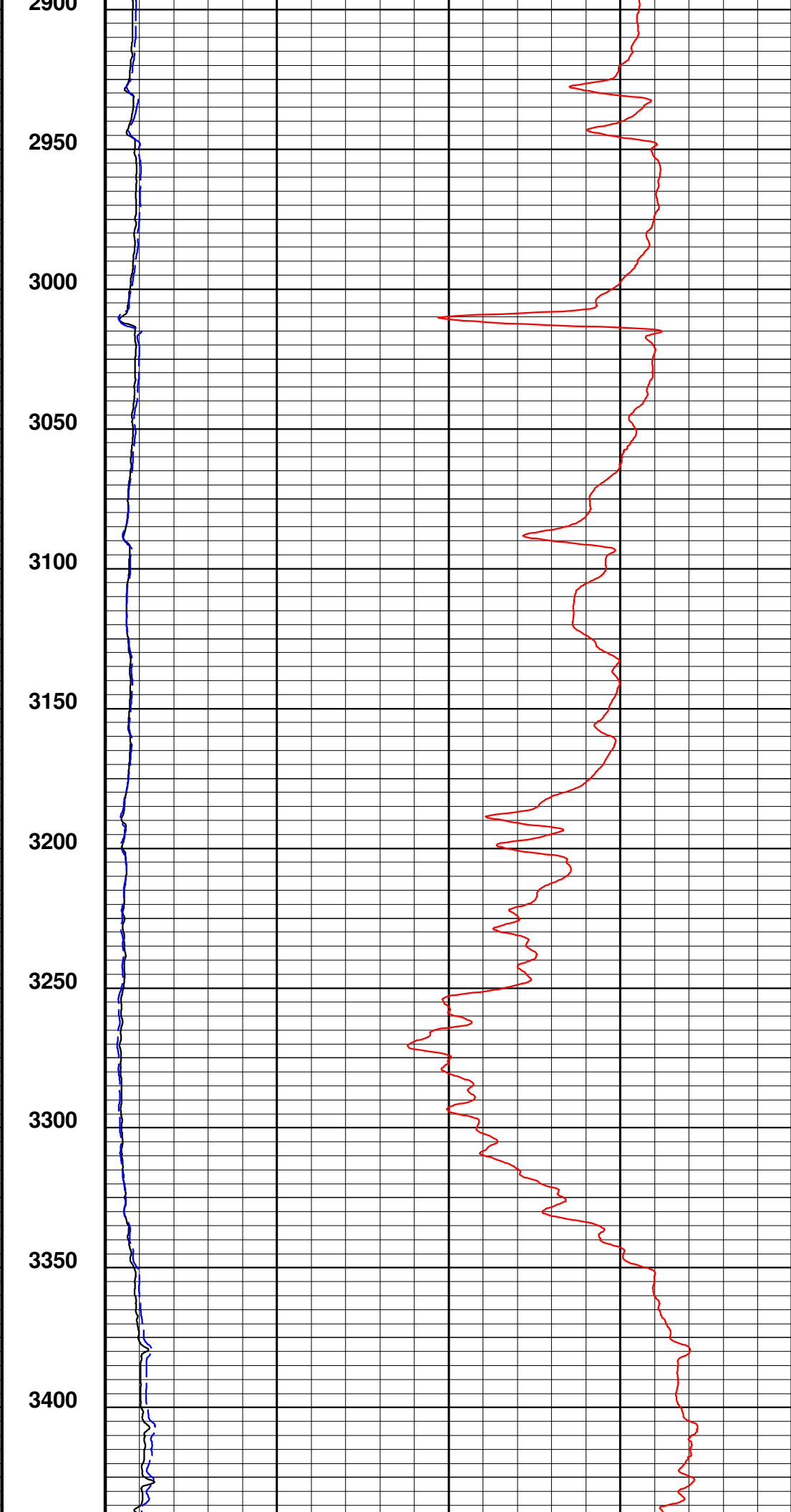
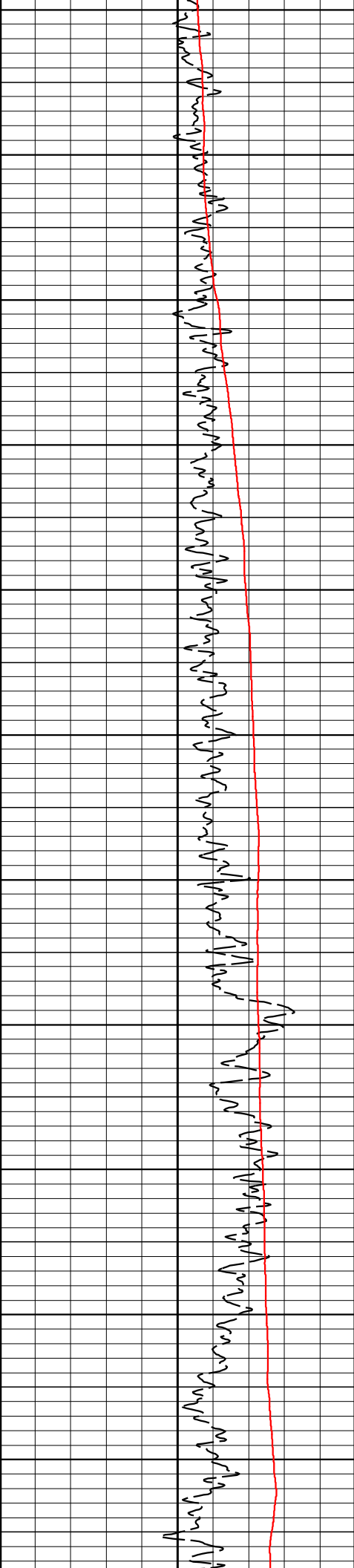
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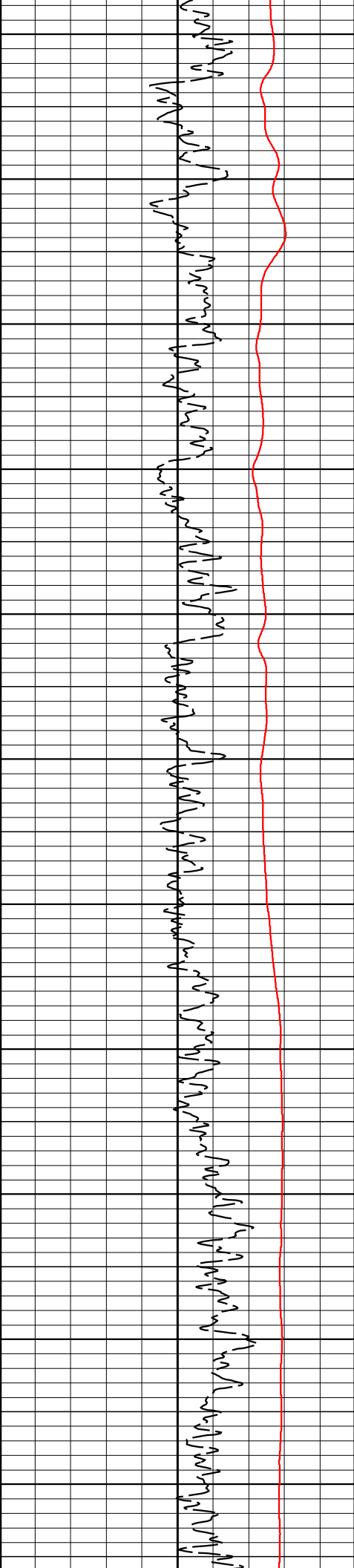
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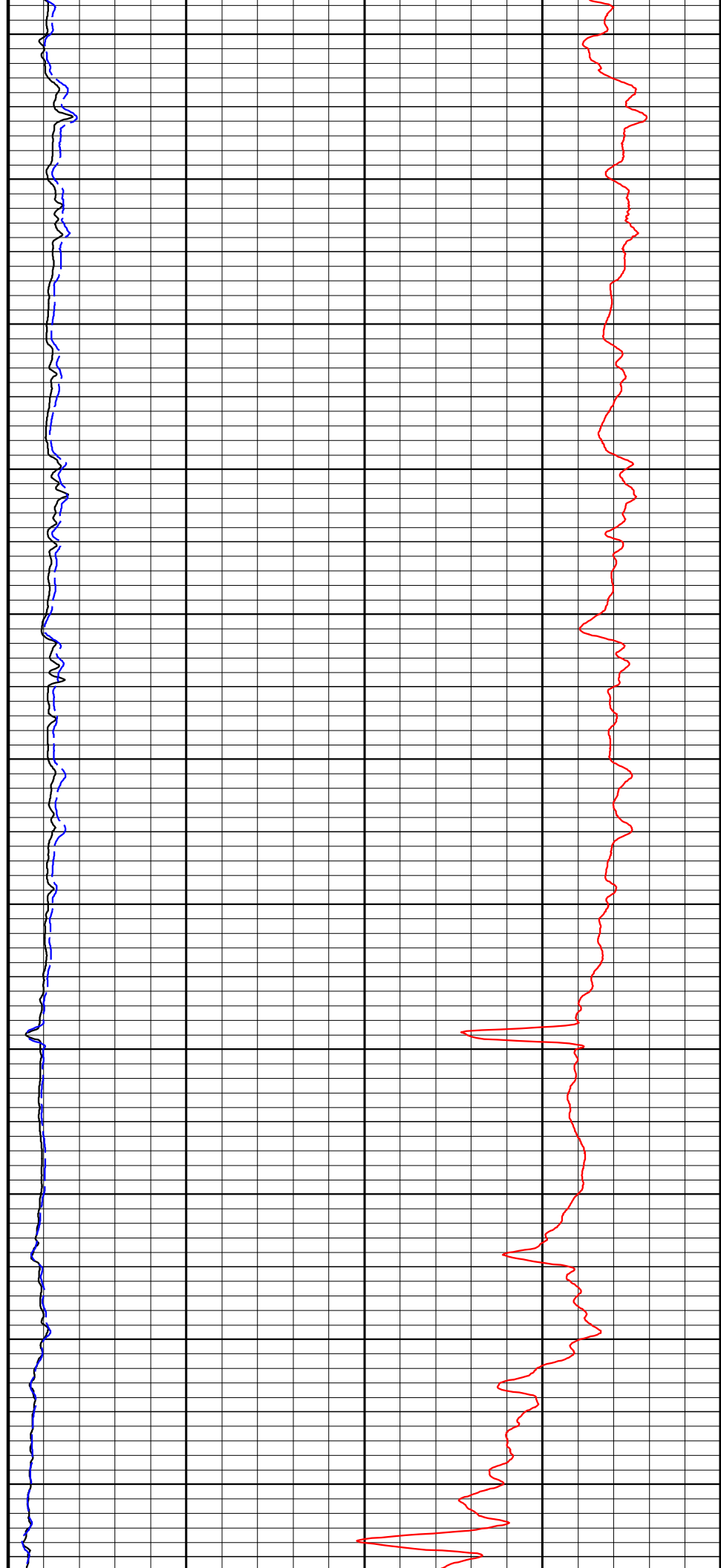


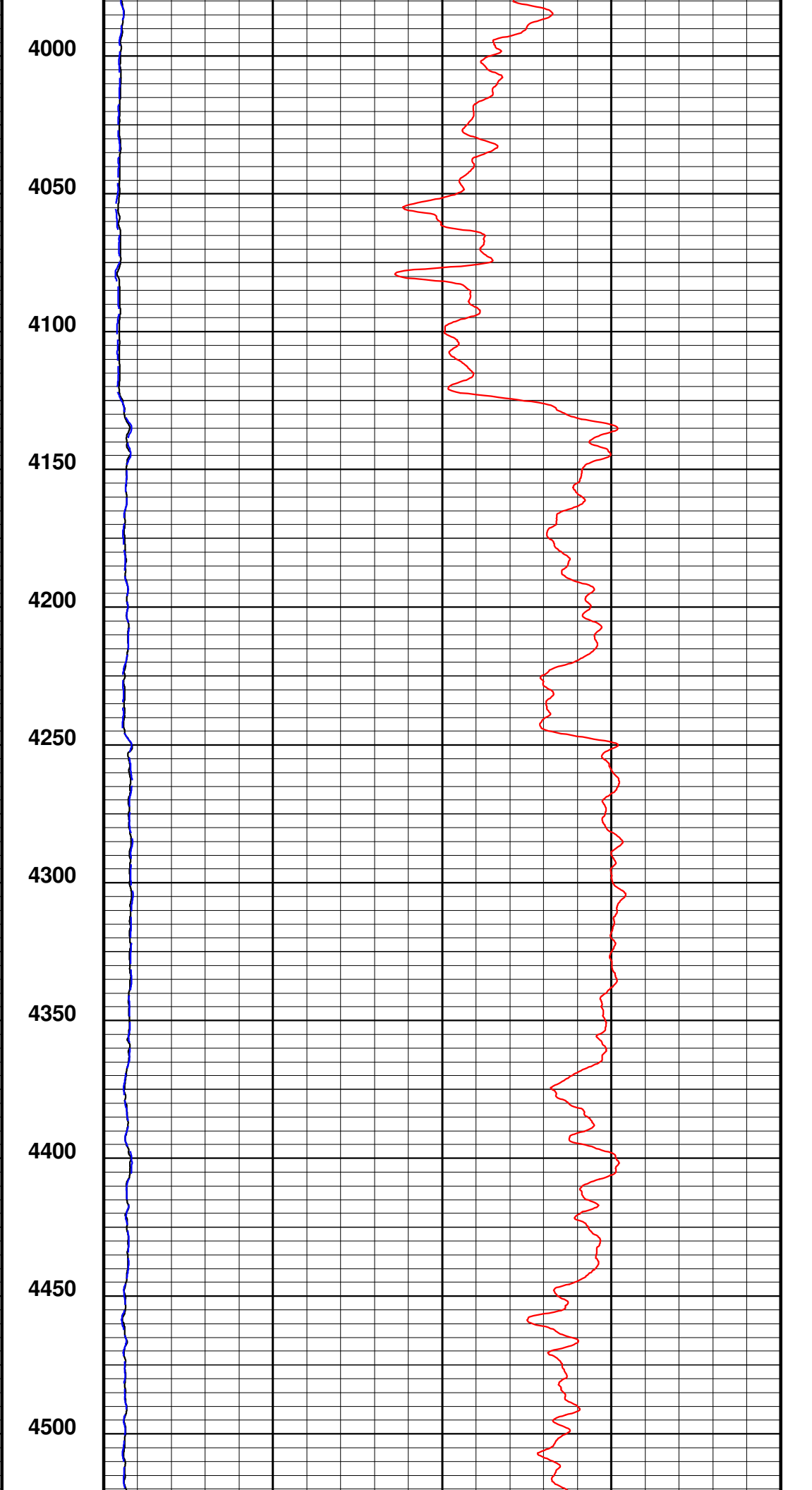
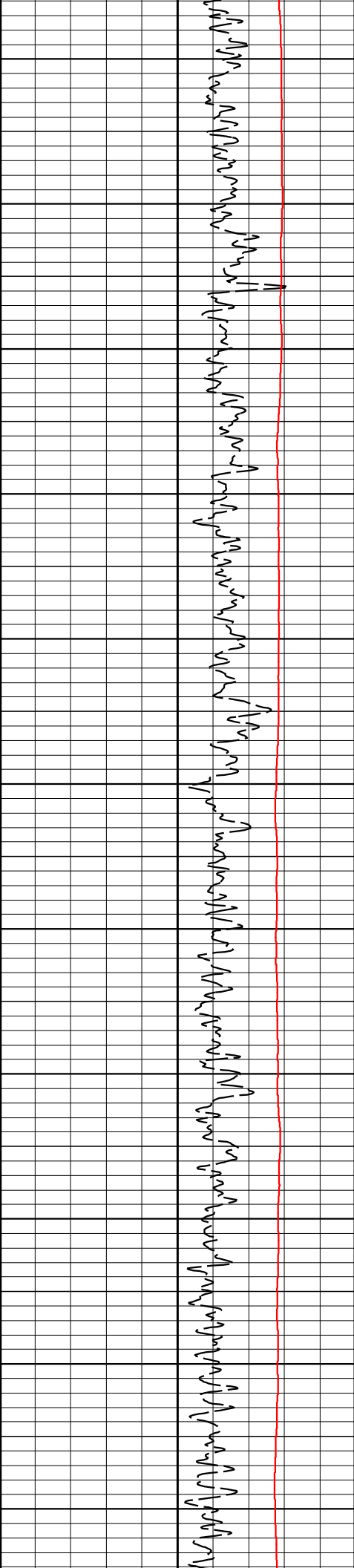


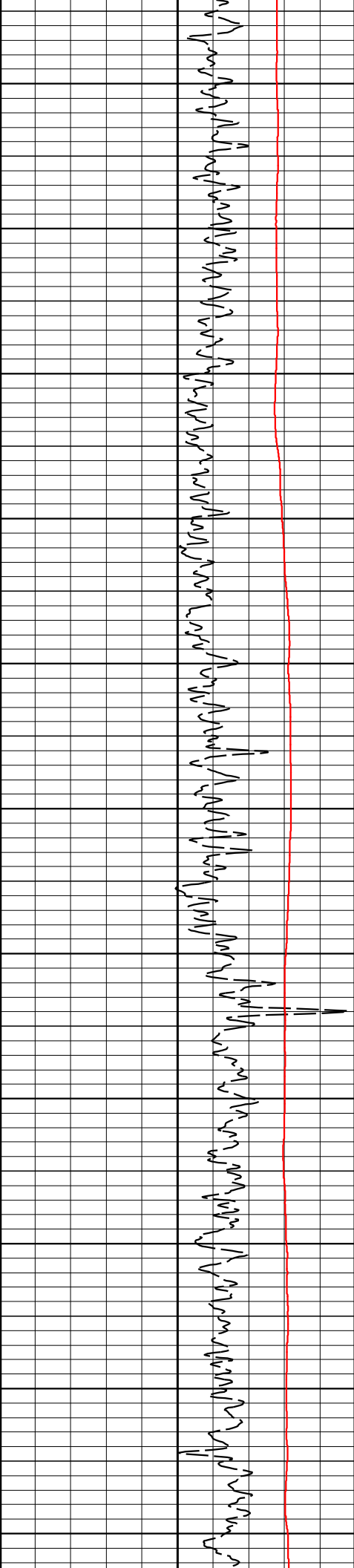




3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950







4550

4600

4650

4700

4750

4800

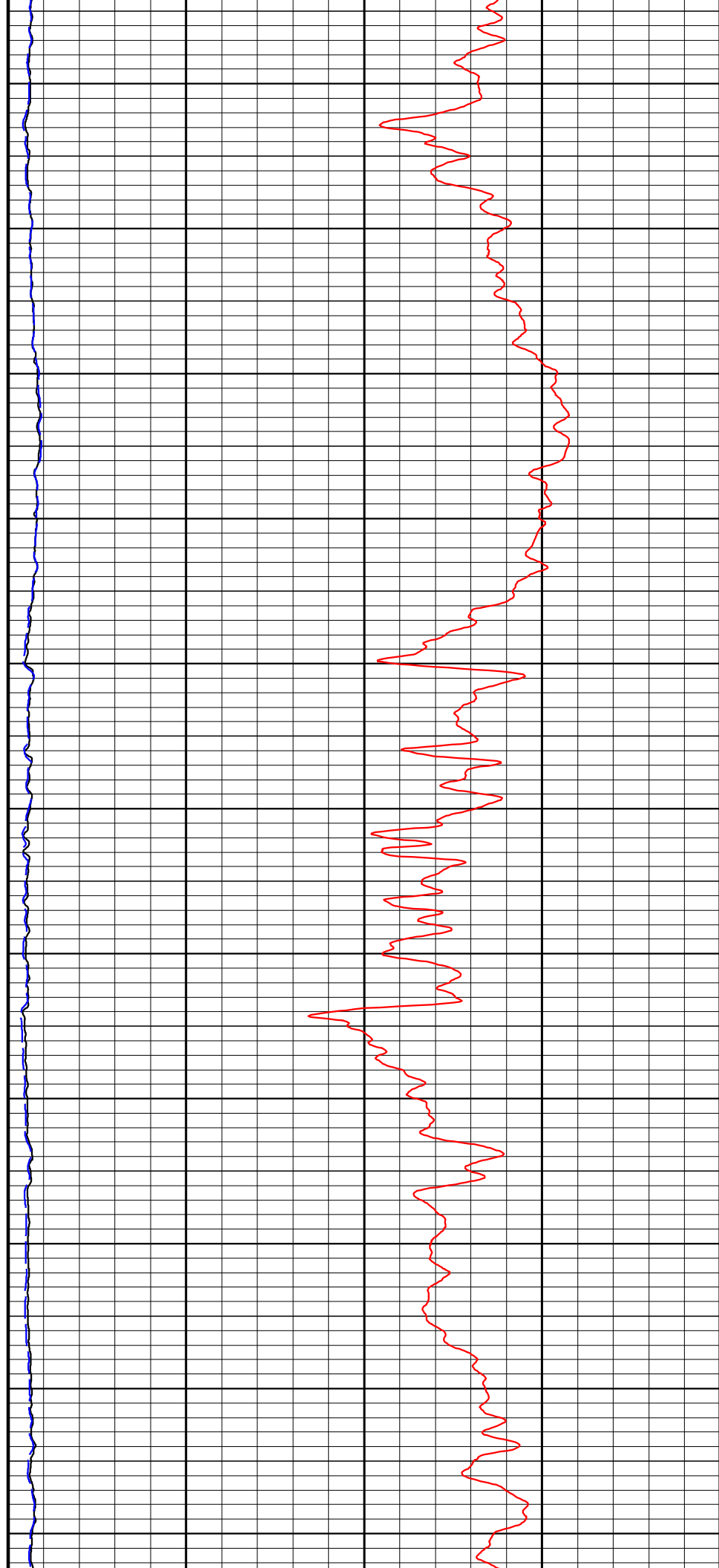
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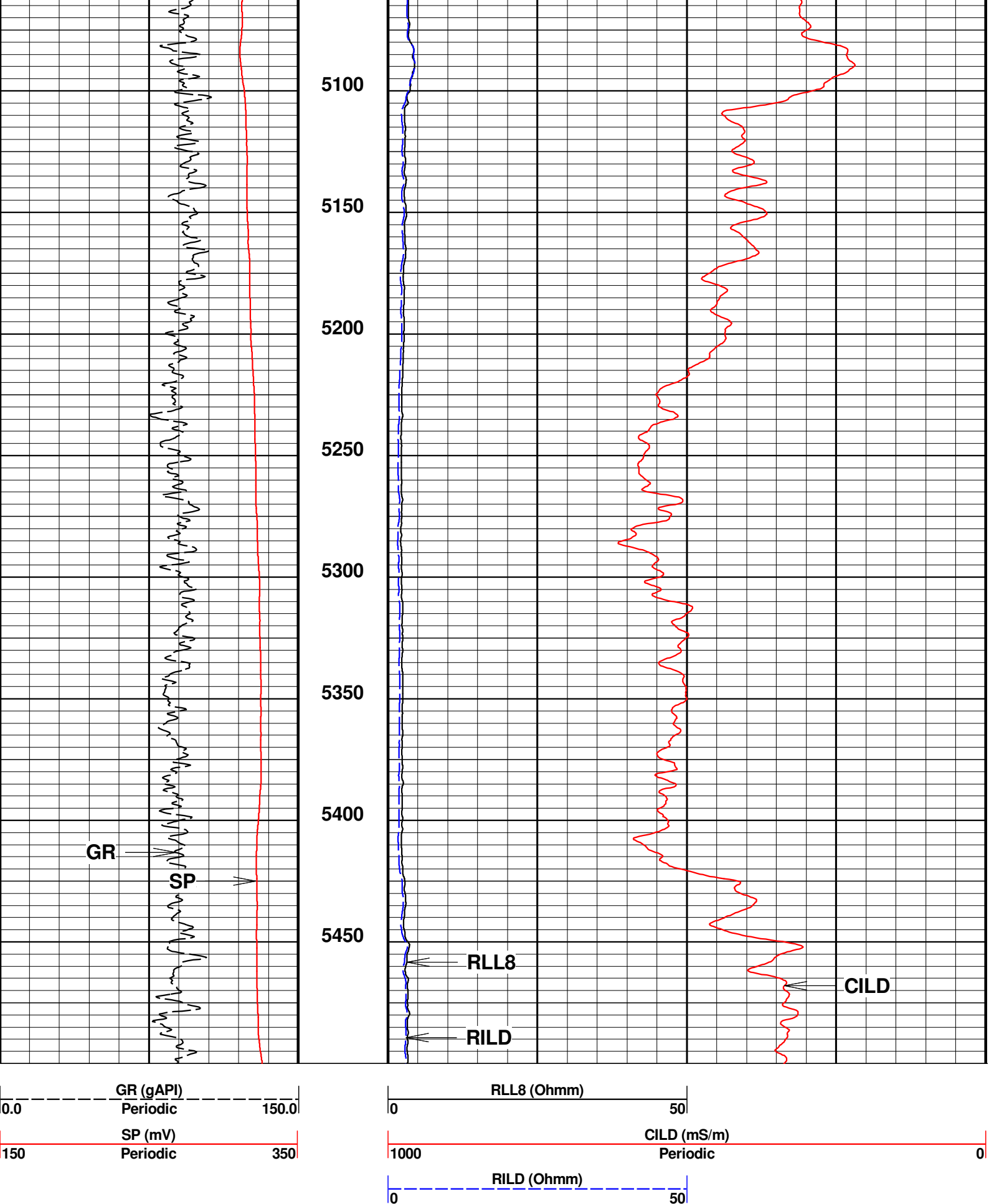
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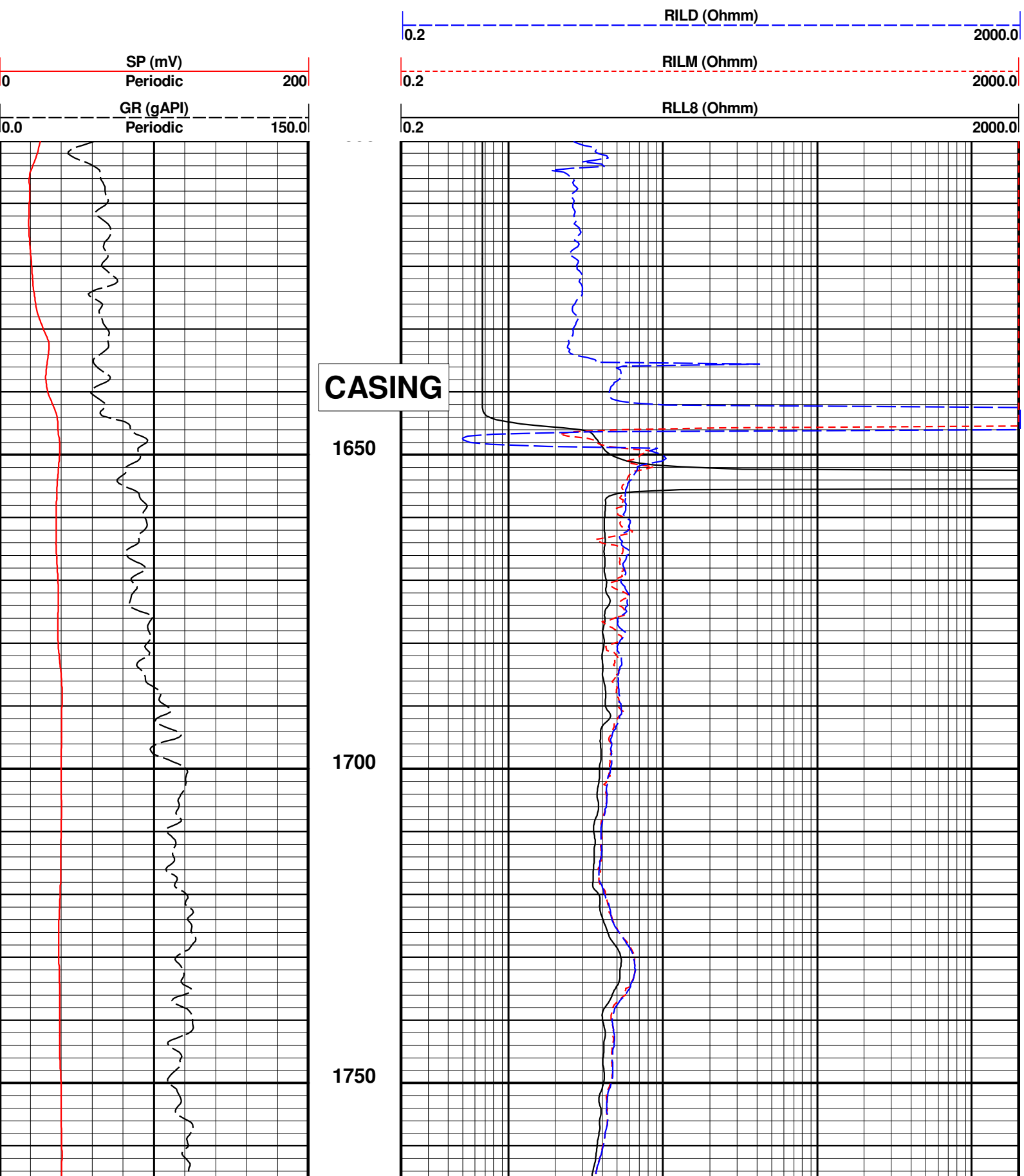


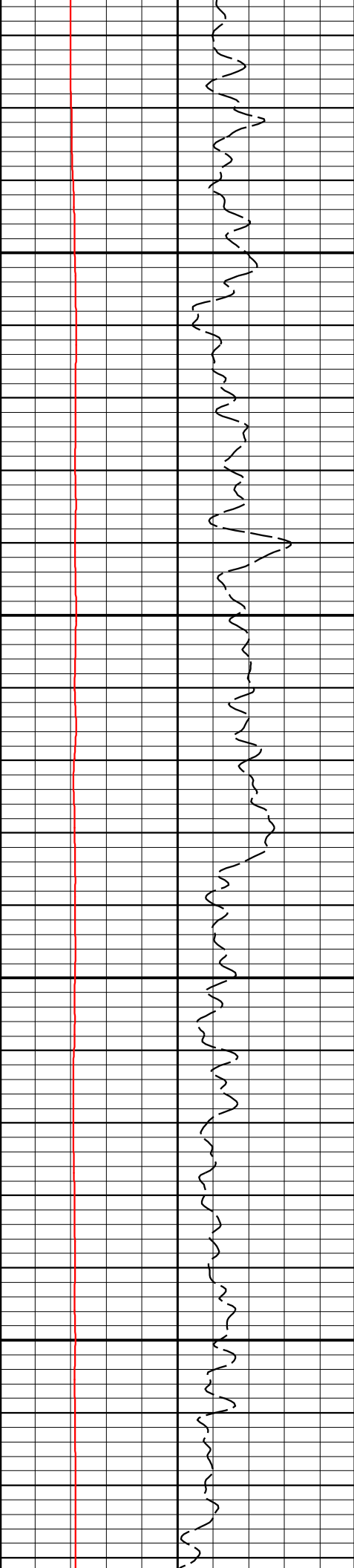


FIVE INCH / 100'

Company : CARRIZO NIOBRARA
Well : PTASNIK No.2-30-9-59
Scale : 1 : 240
Depth in : ft
Software : WinAPIot Ver. 5, 89, 15, 0

Date : 21.04.2015
Time : 14:54:40
Remarks : SERVICE ORDER 2-013979
File Name : MAIN PASS GOOD



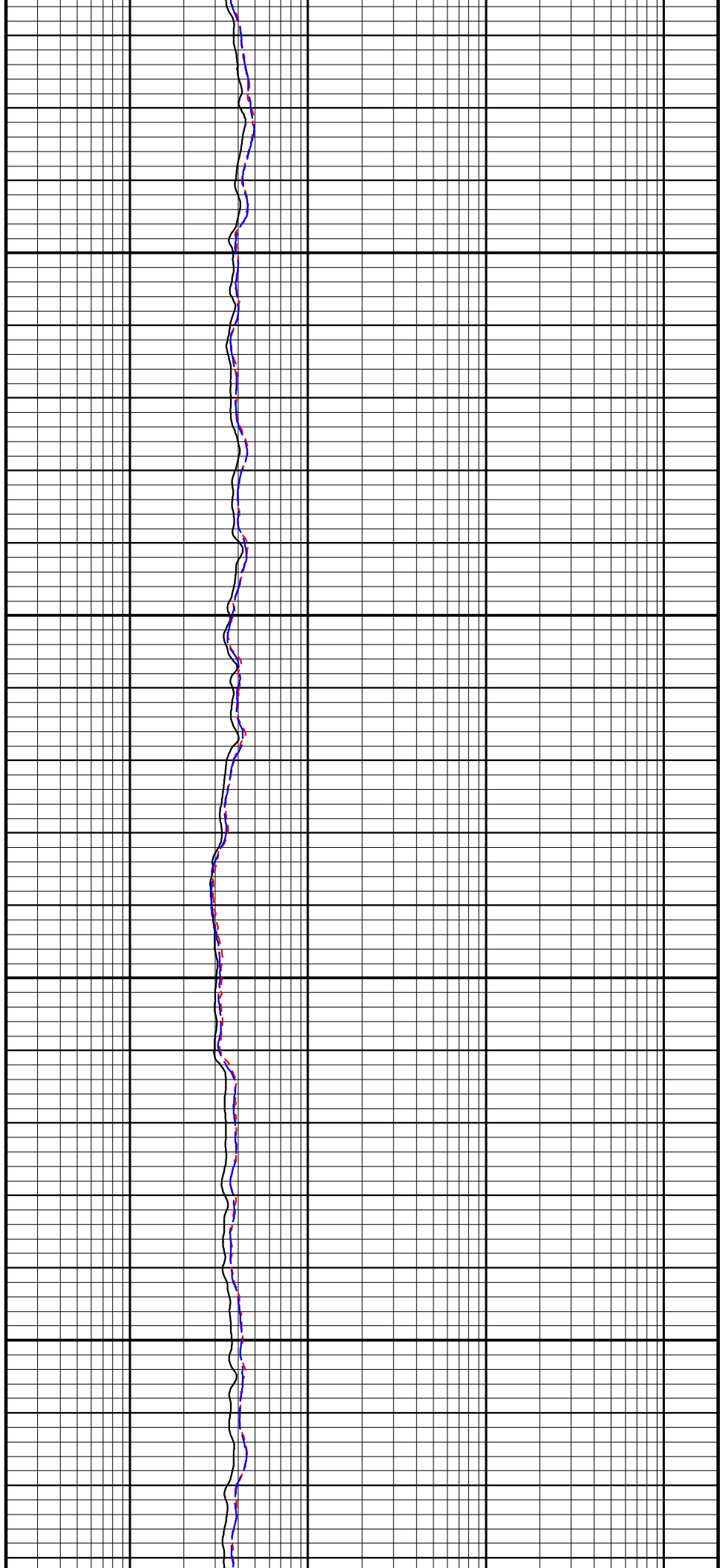


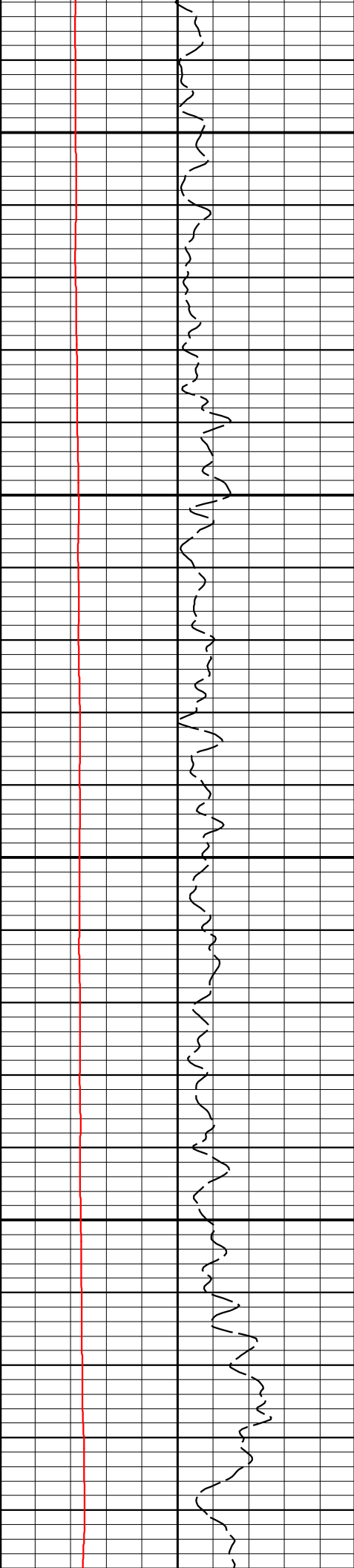
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1850

1900

1950



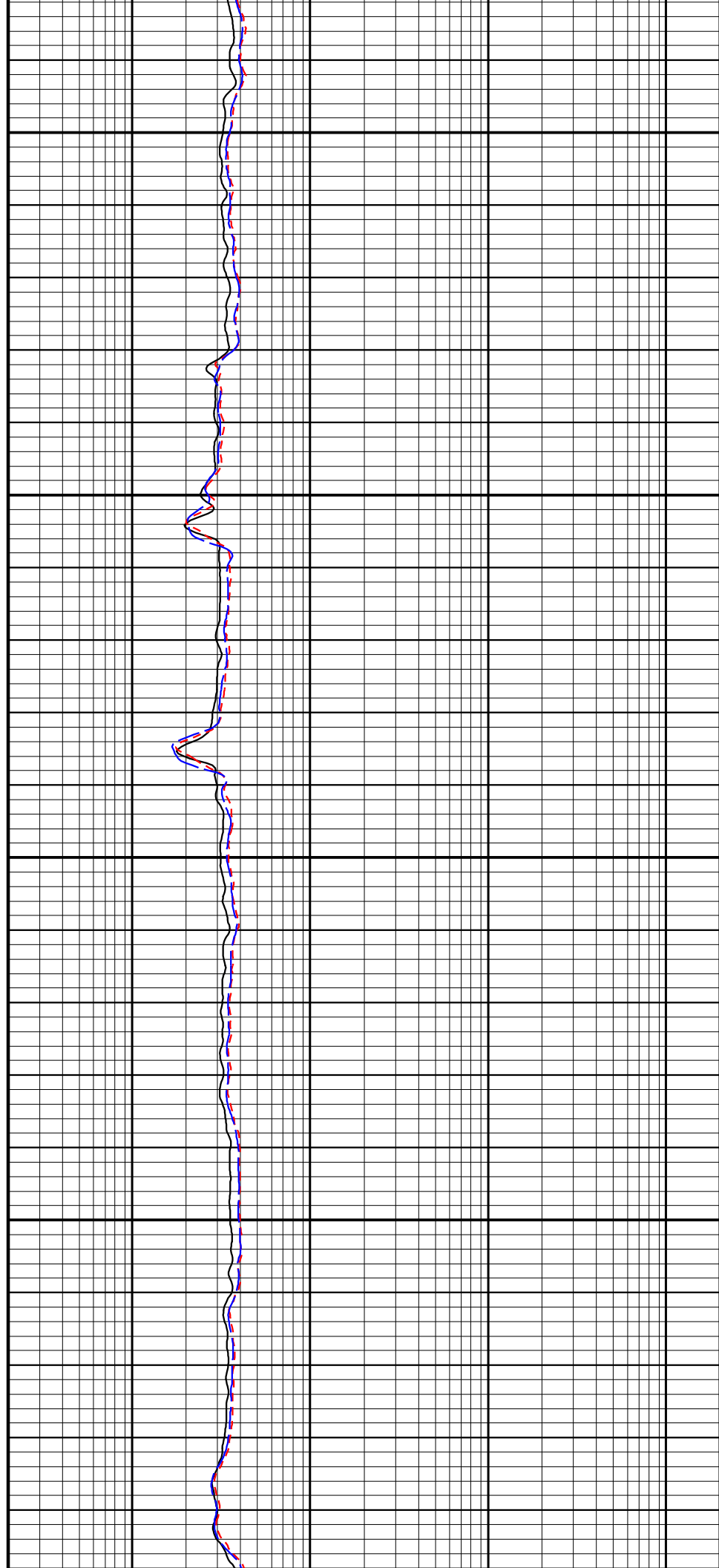


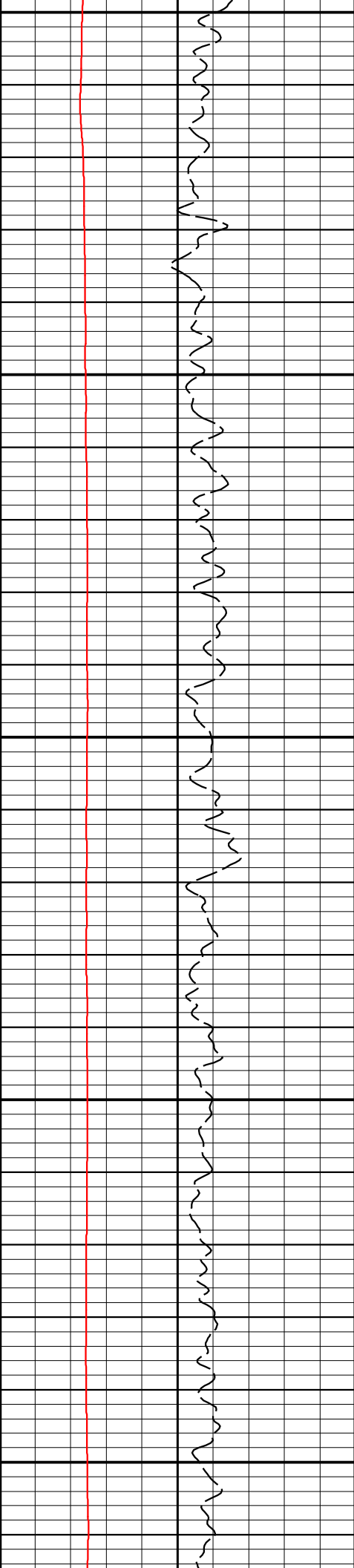
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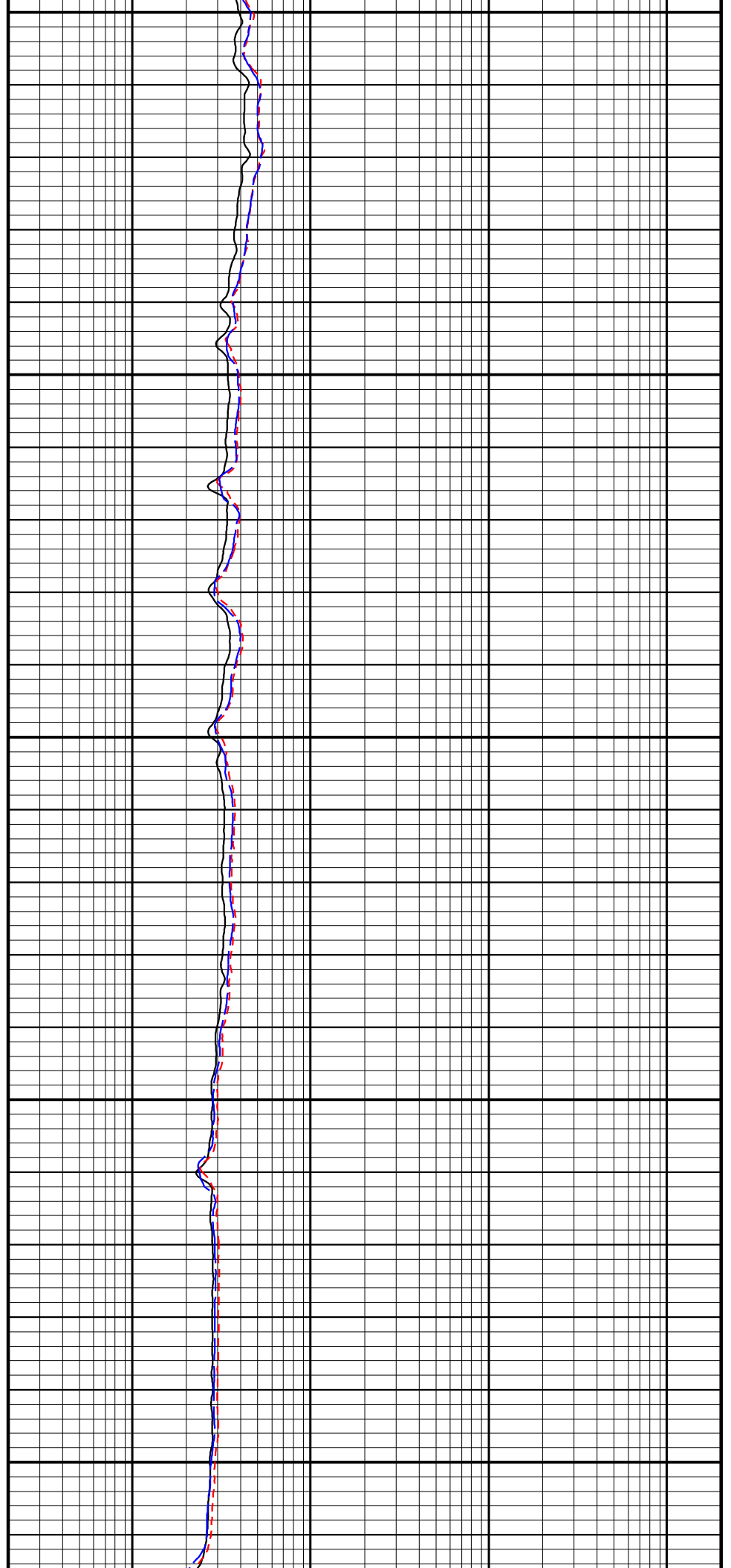
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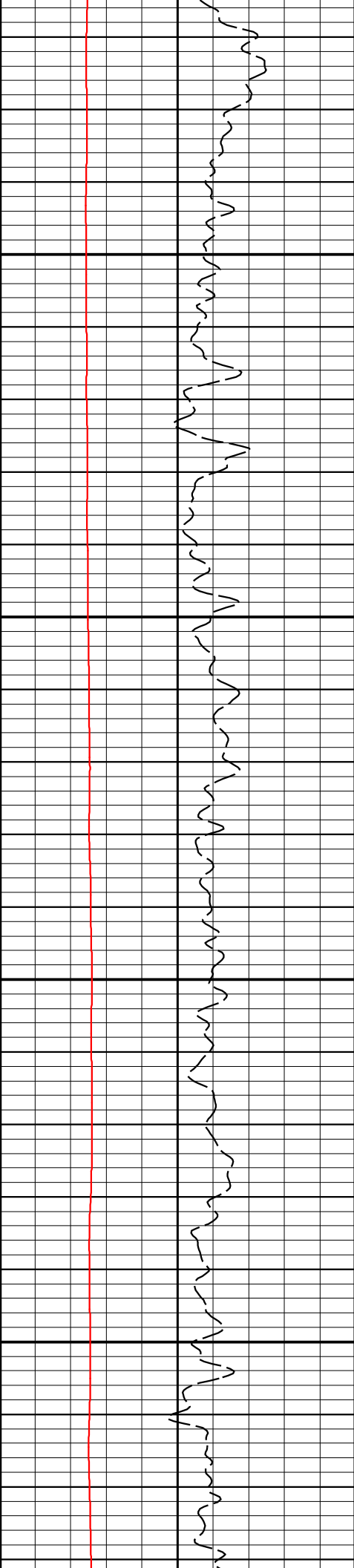
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2300

2350

2400



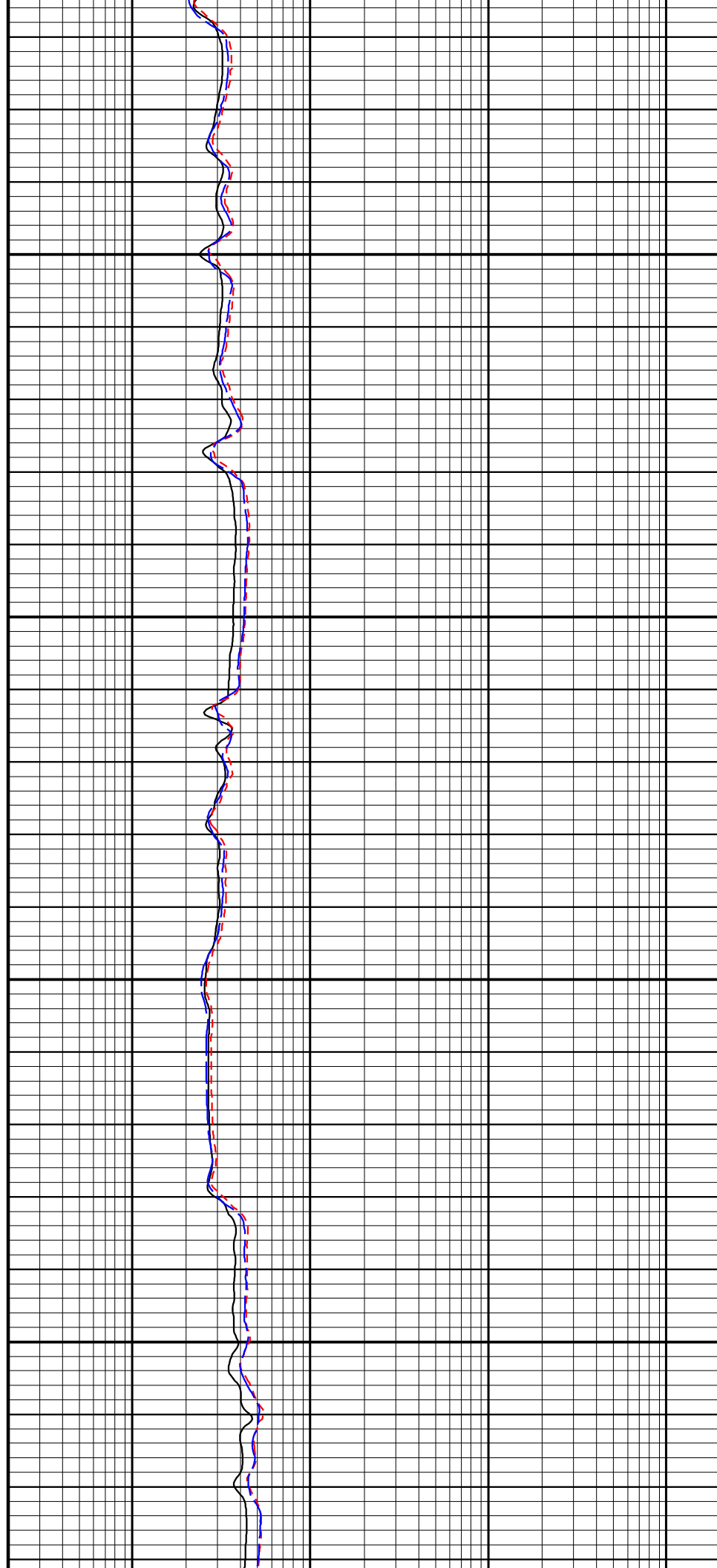


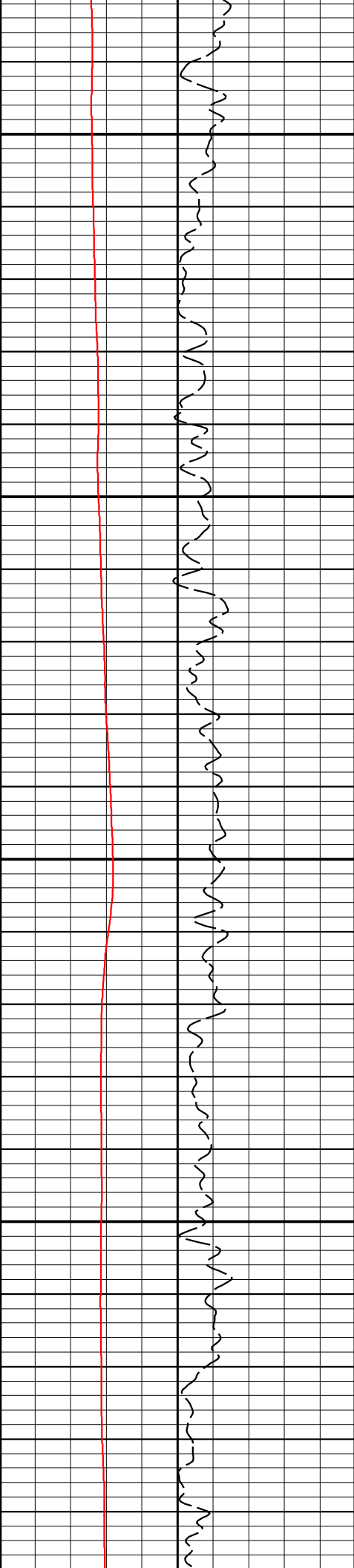
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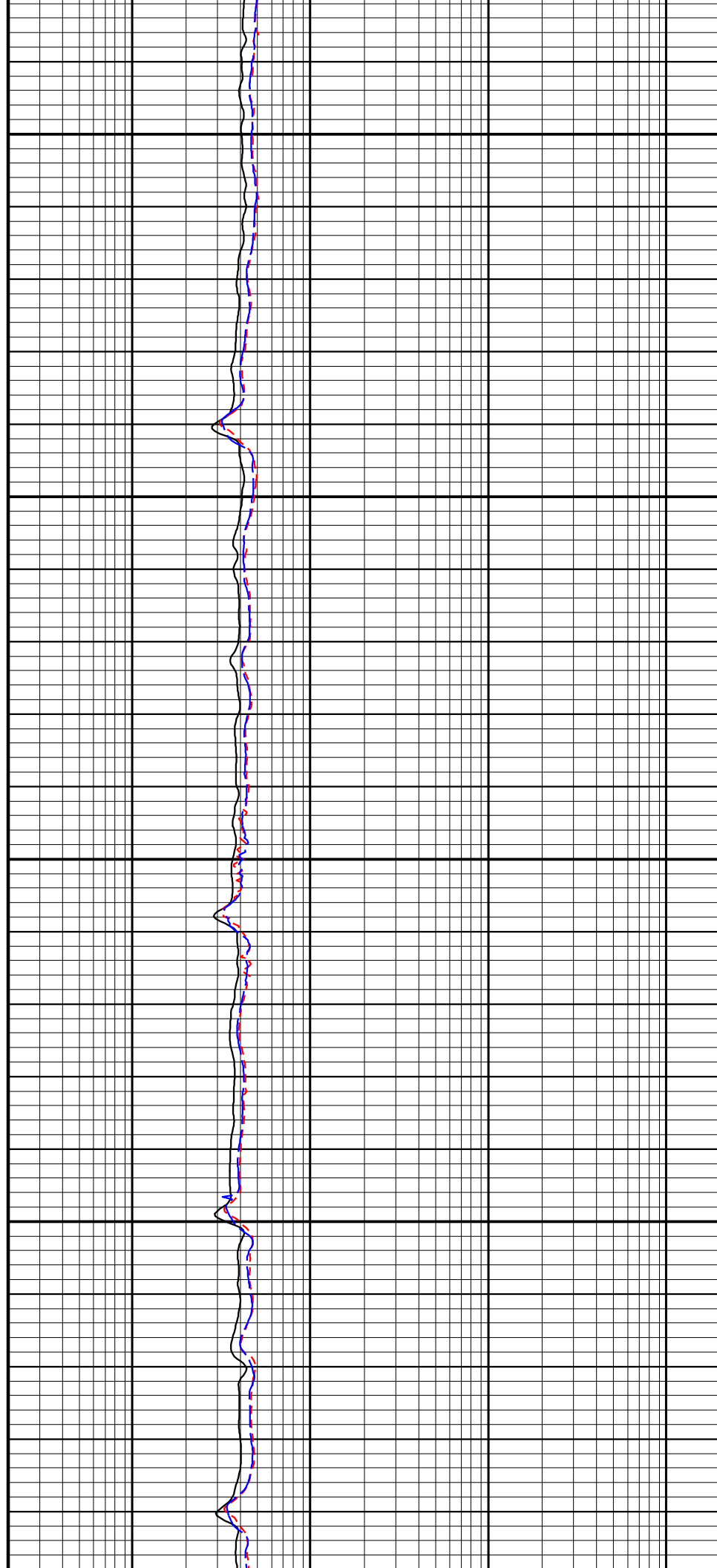


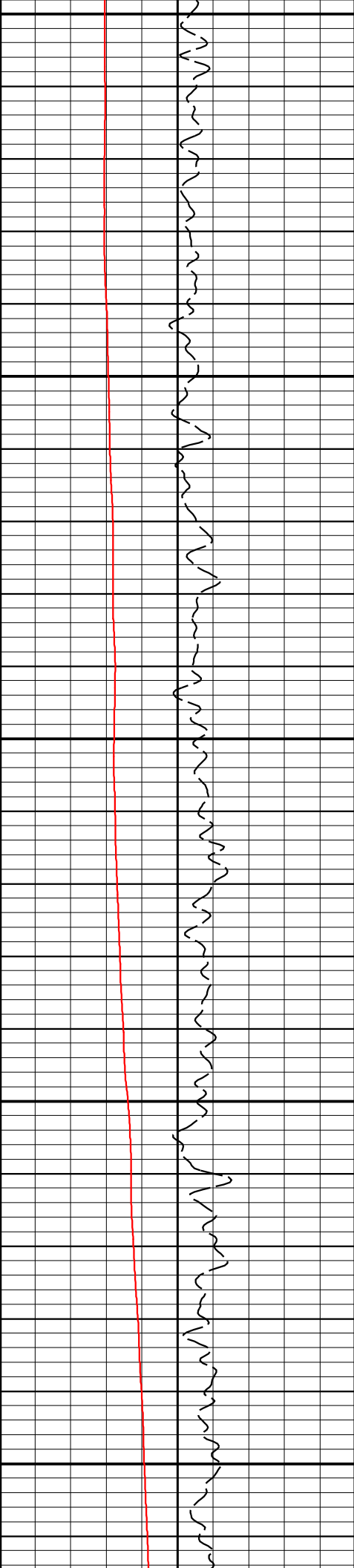
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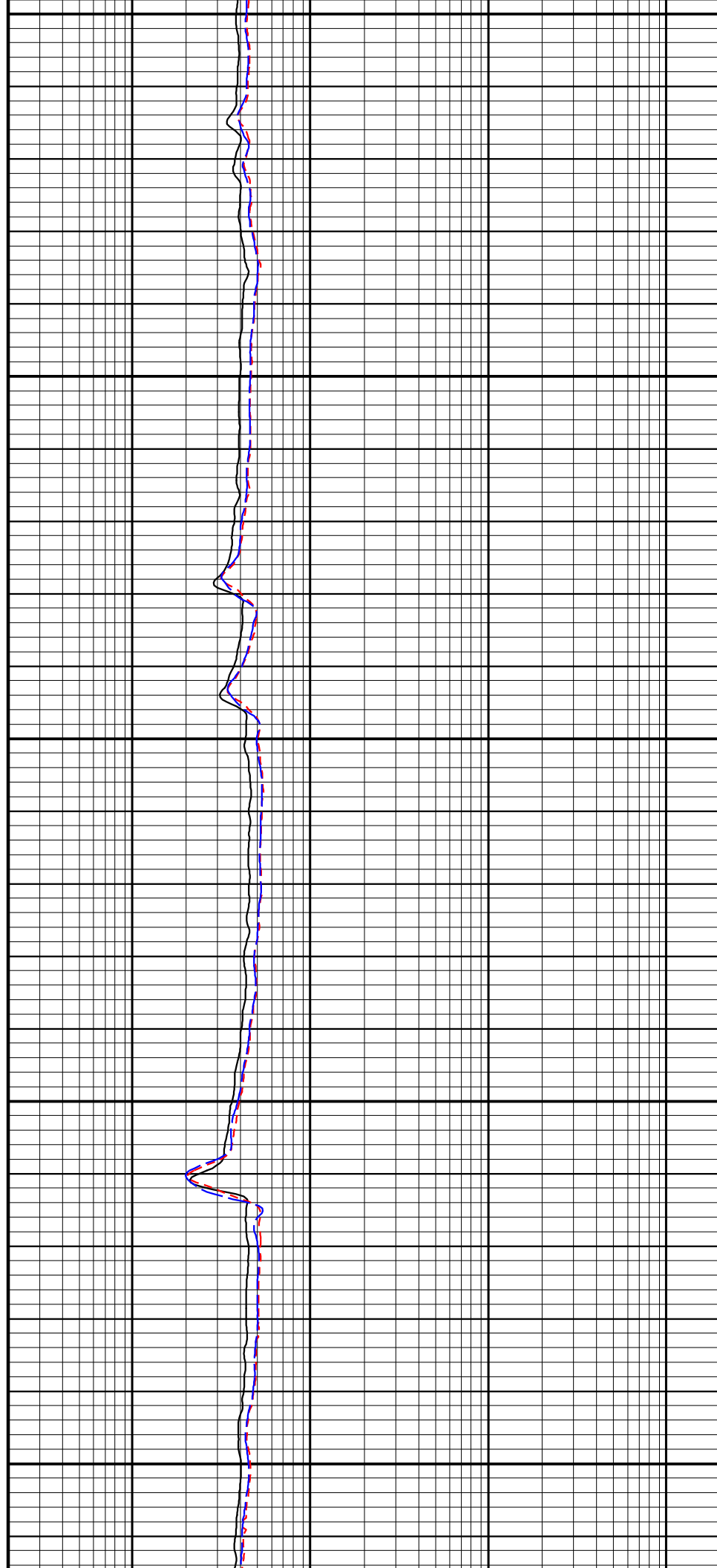
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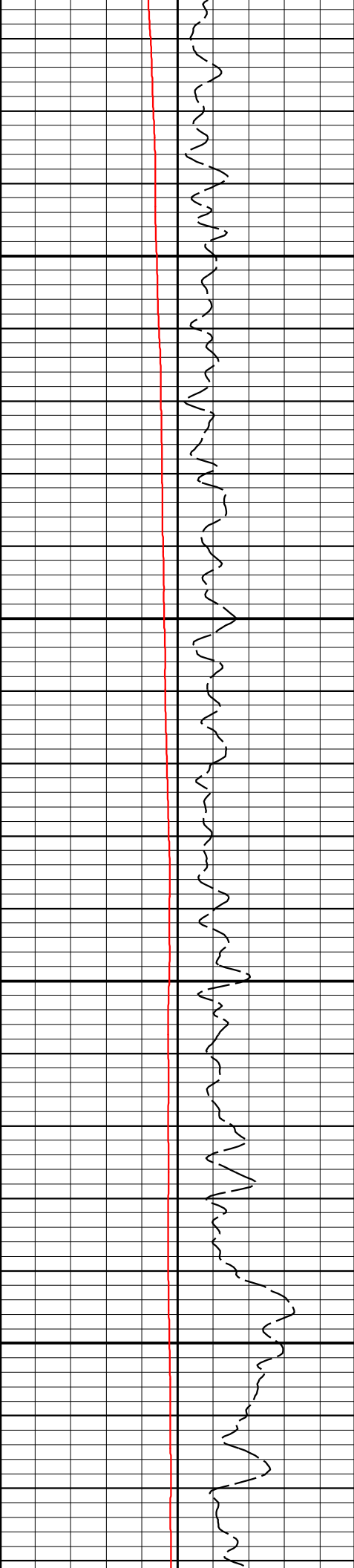
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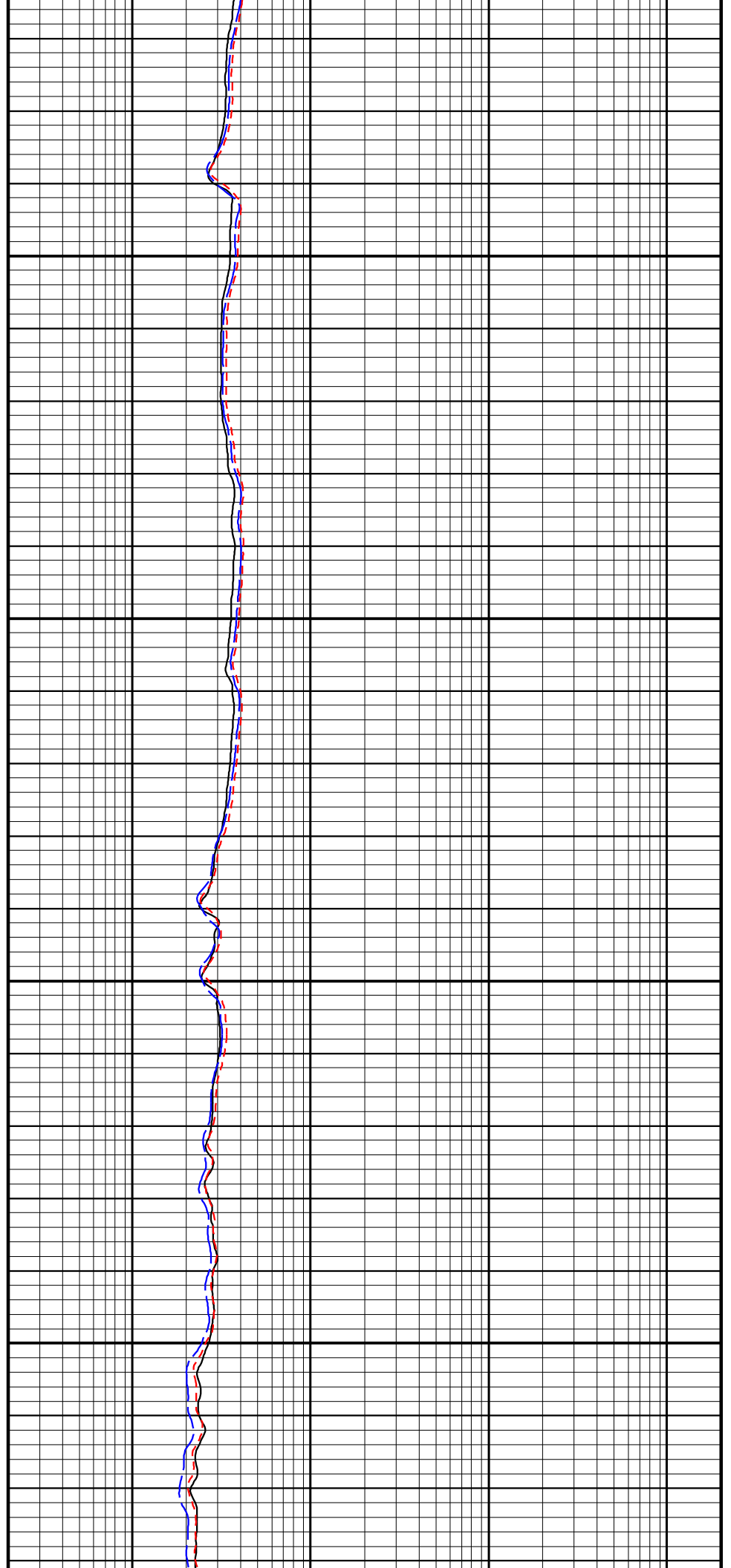


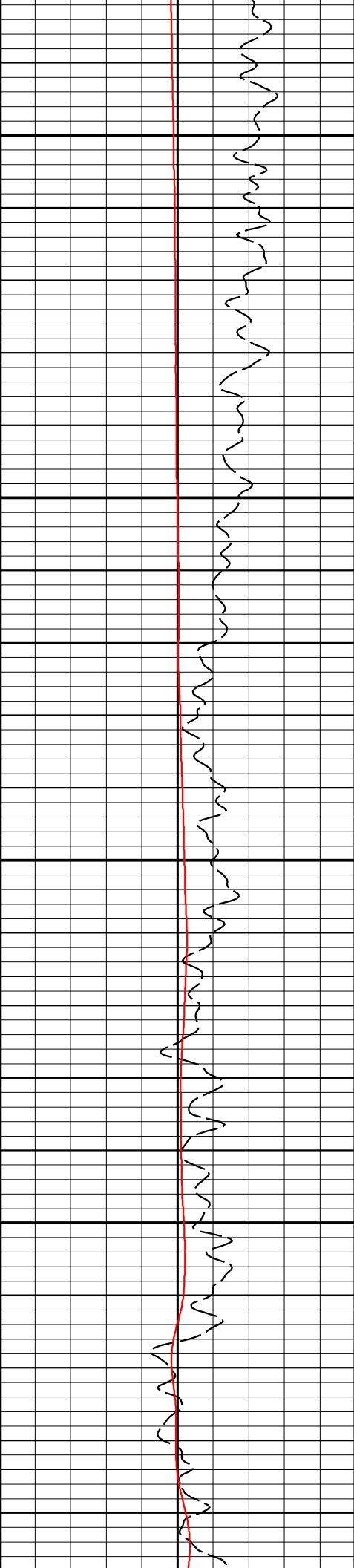
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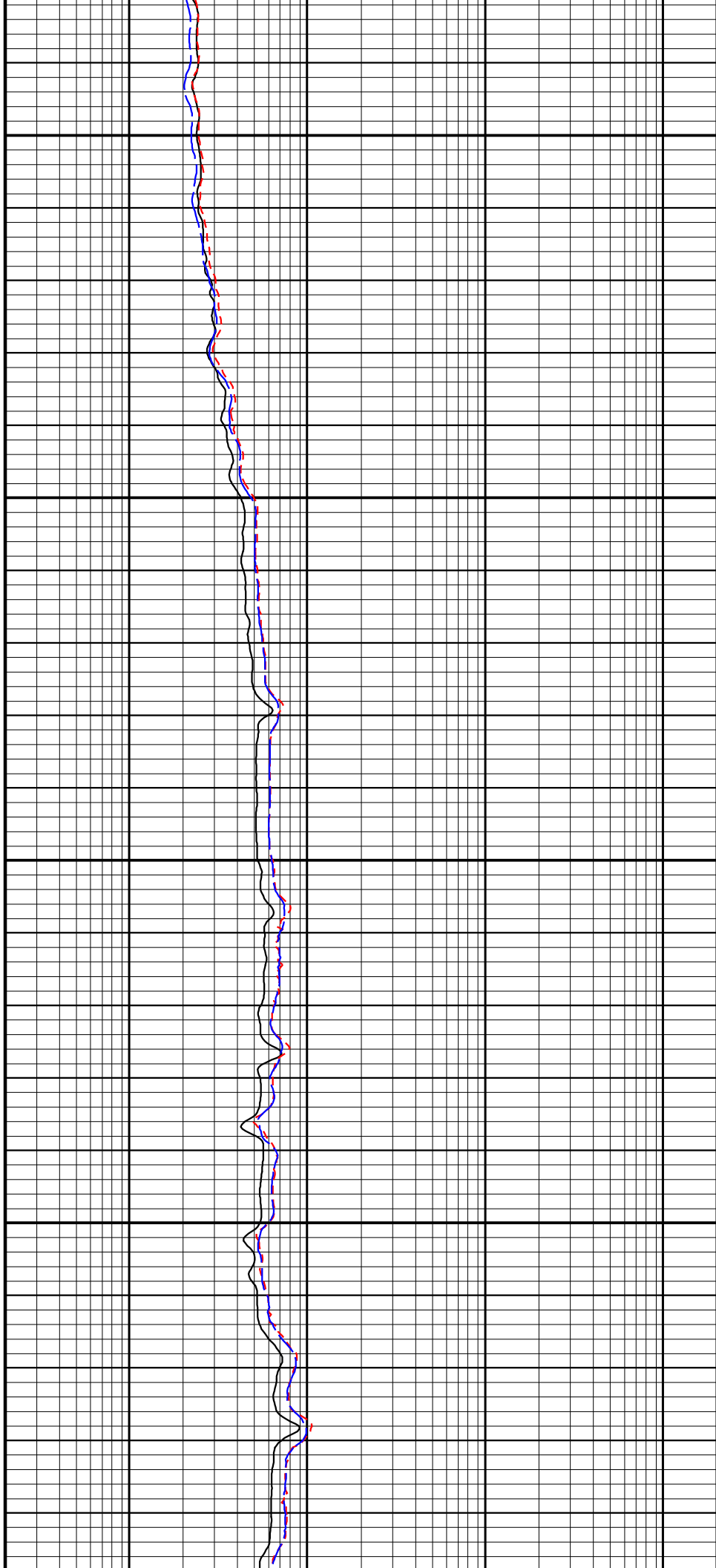


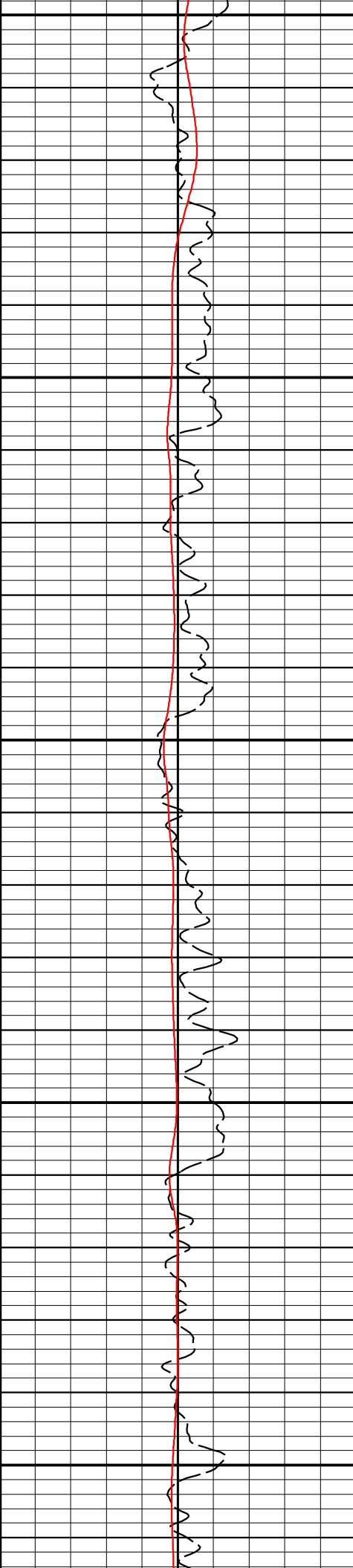
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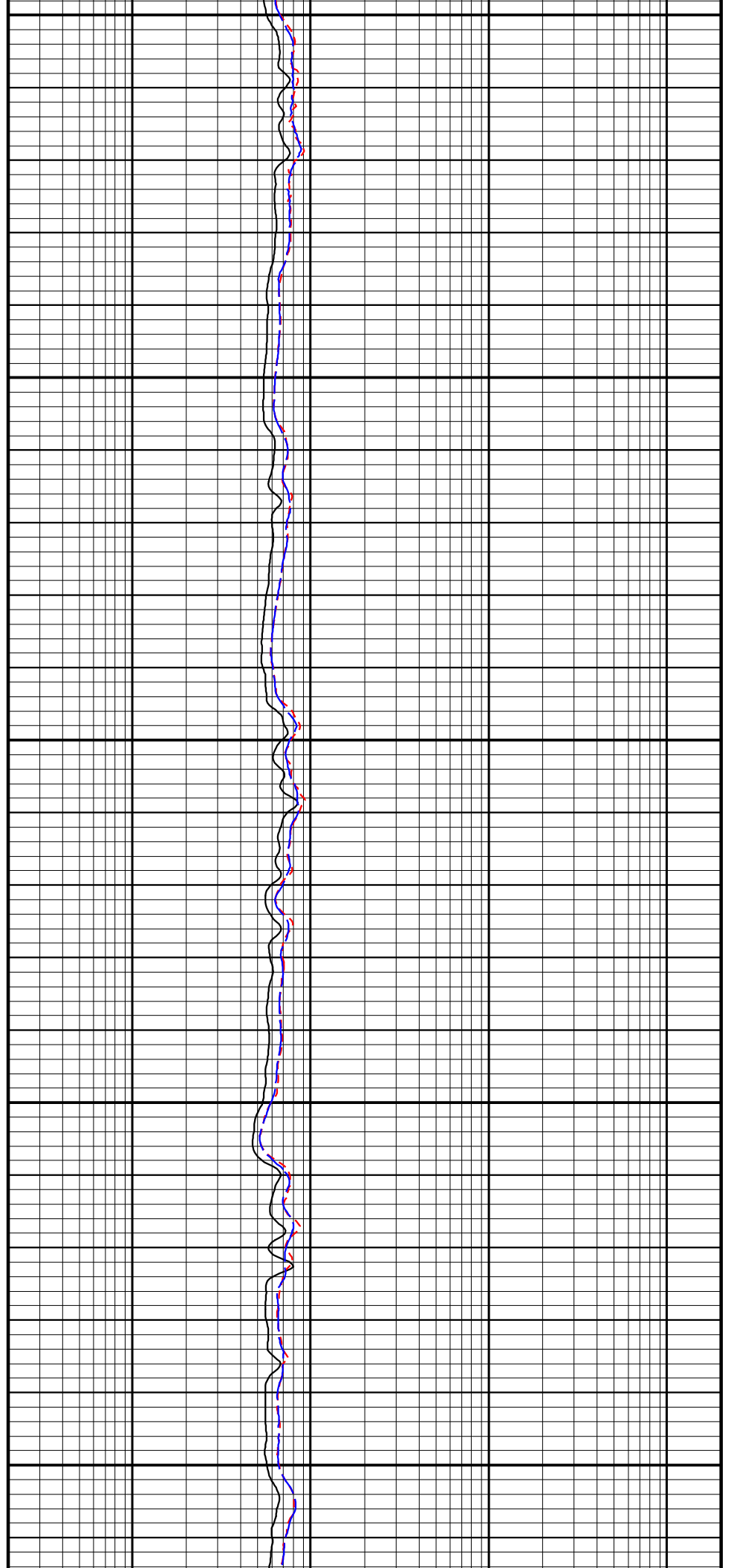
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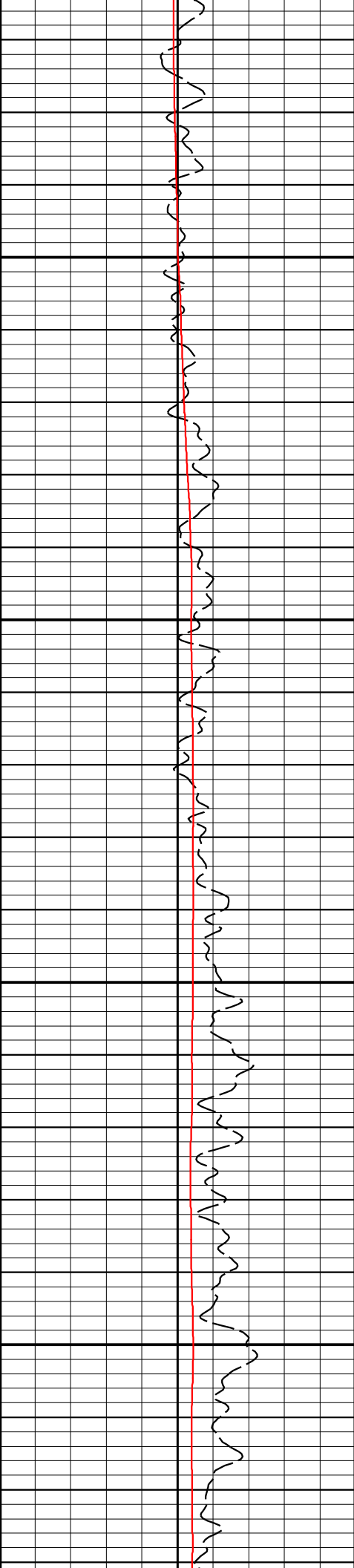
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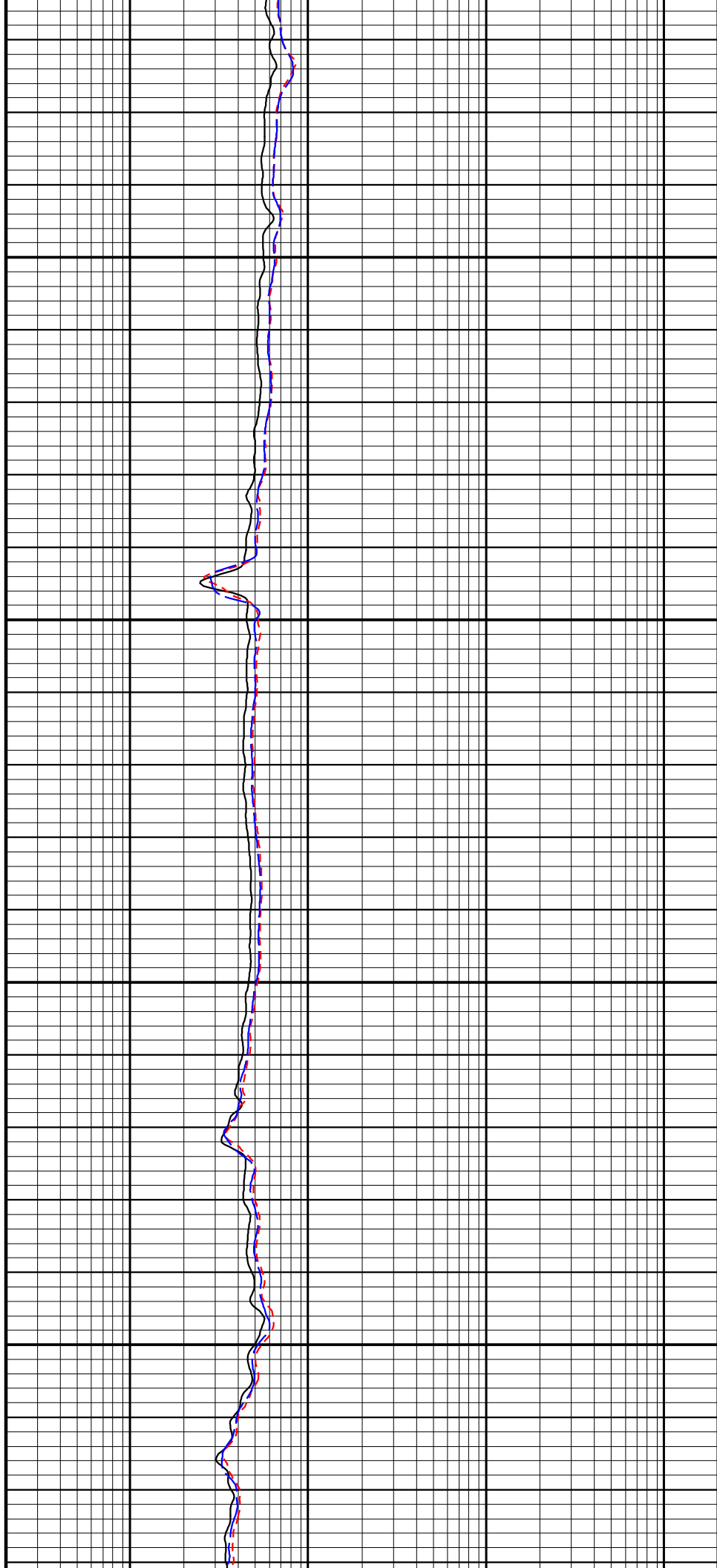


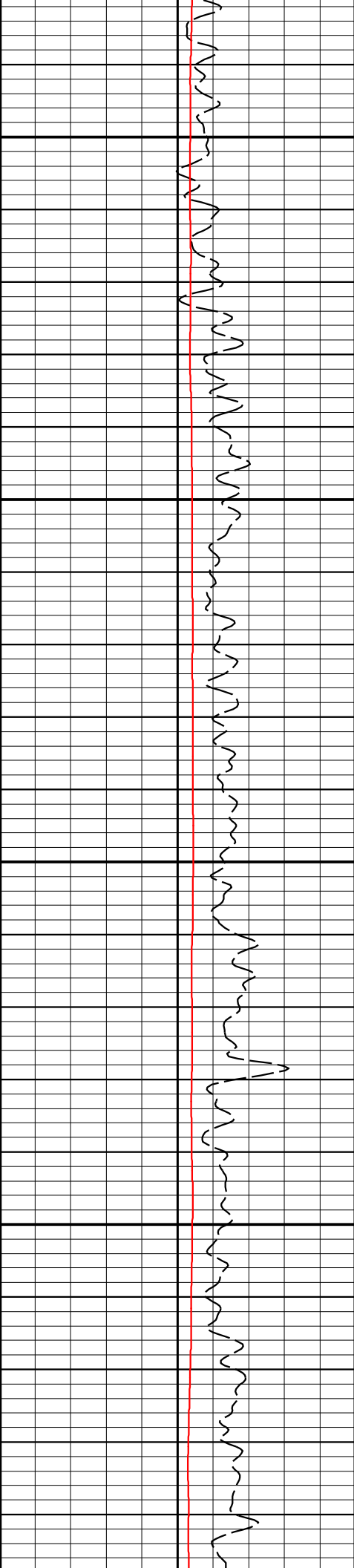
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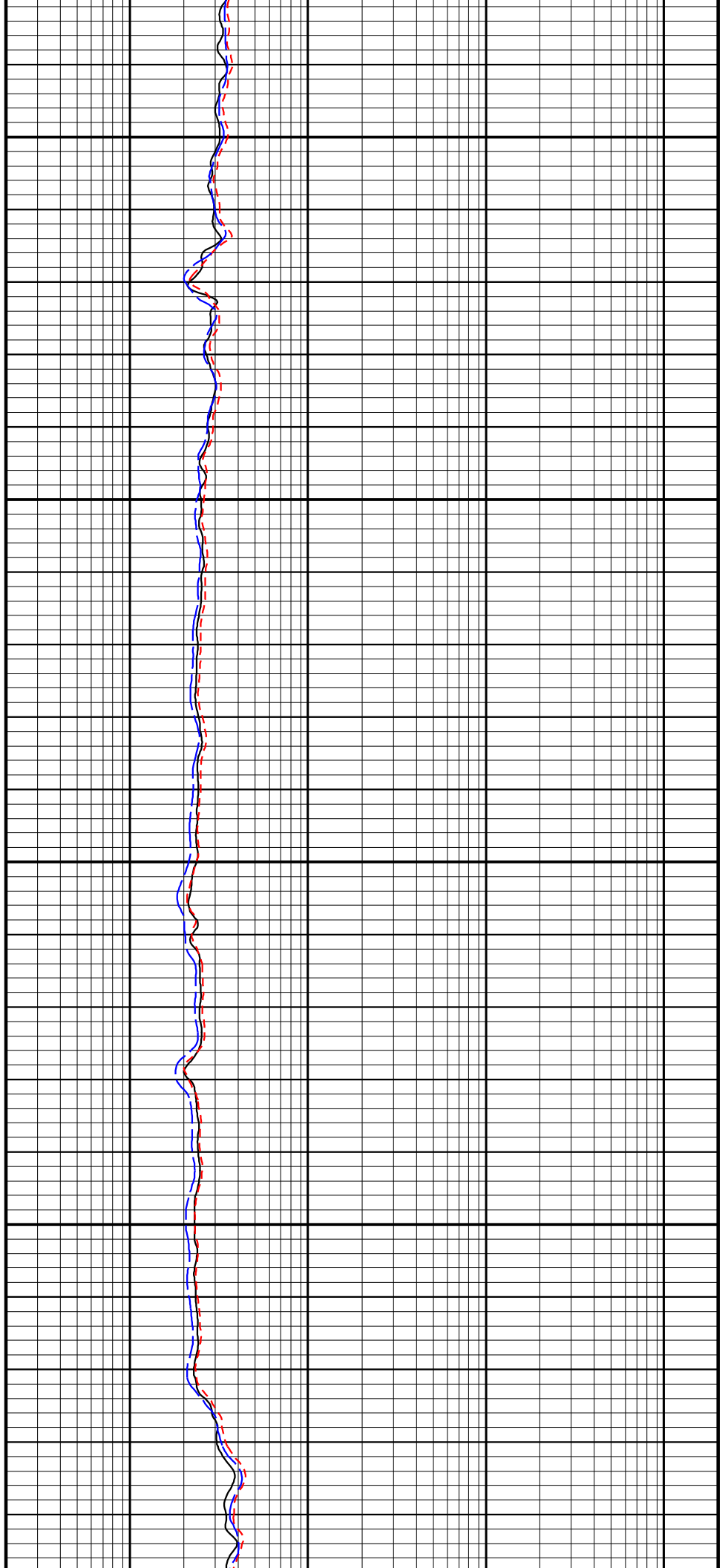


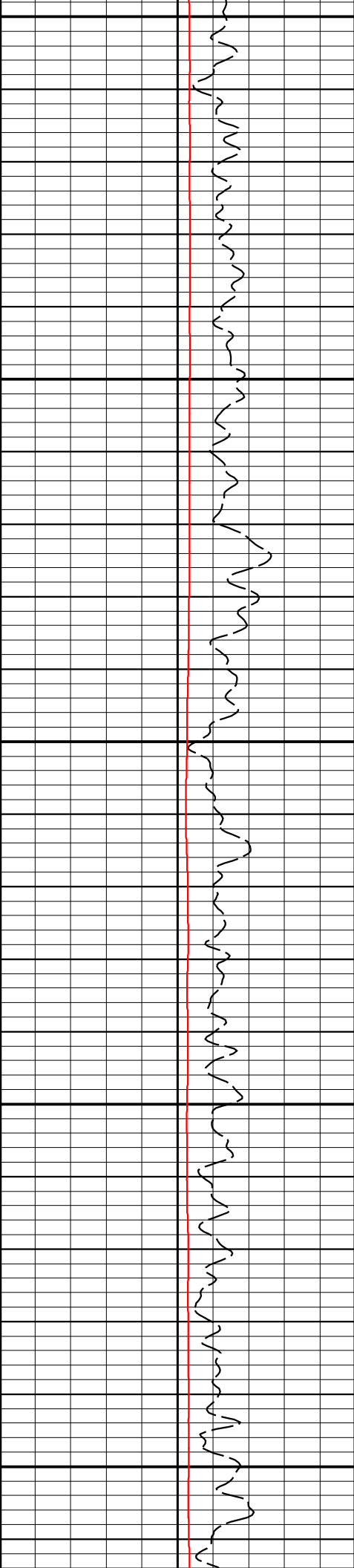
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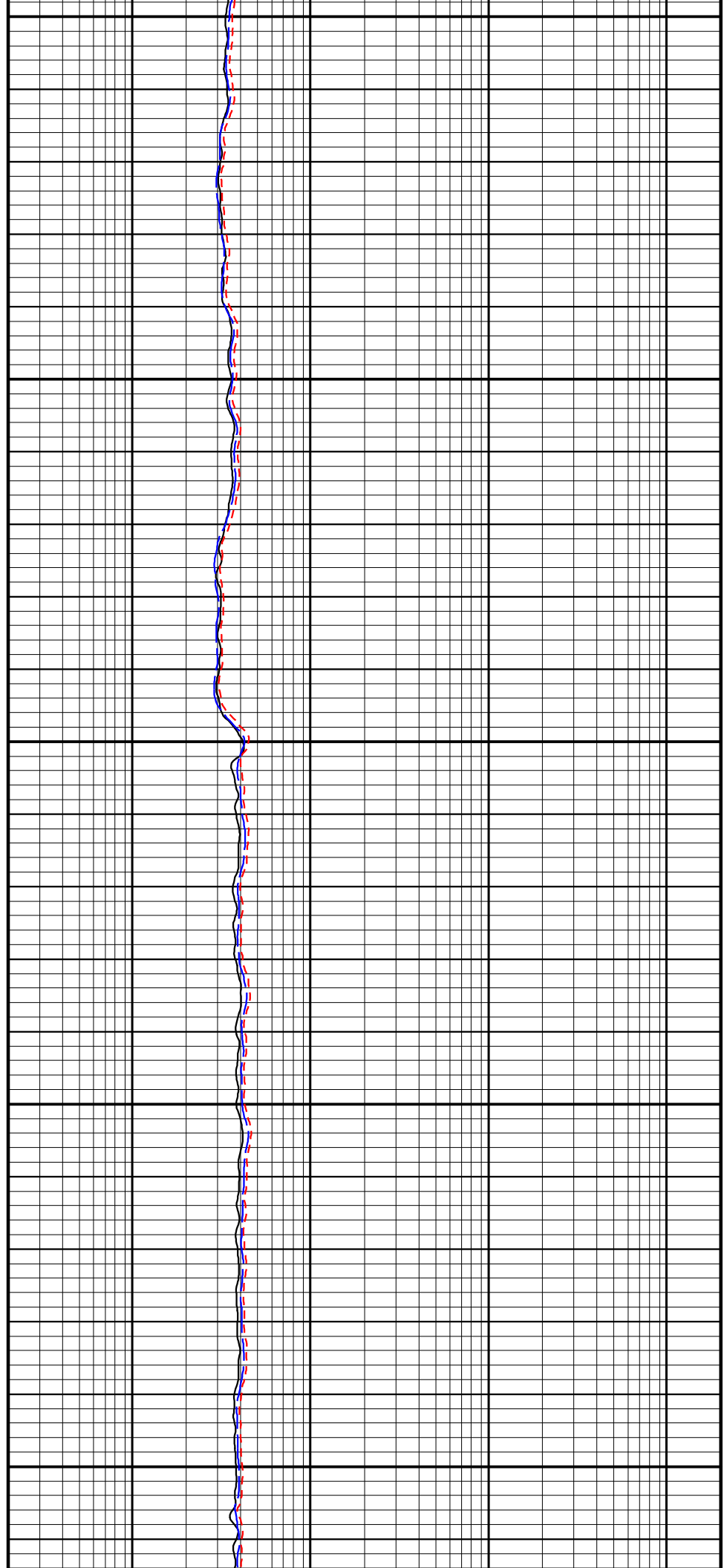
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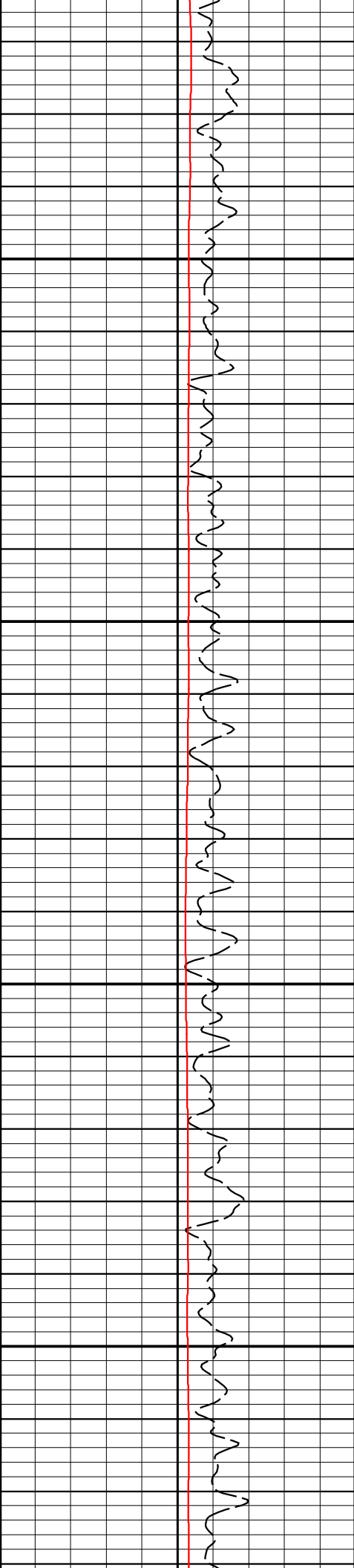
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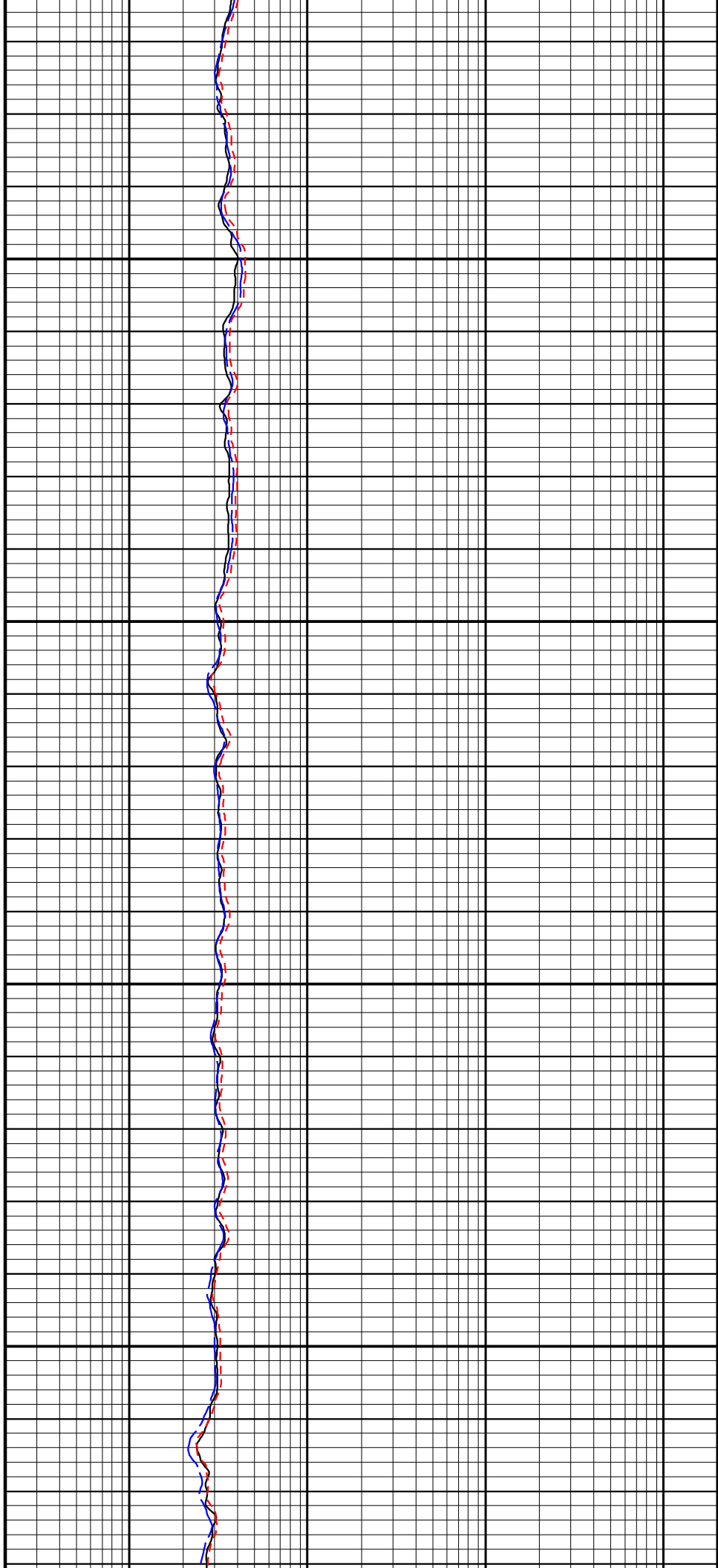


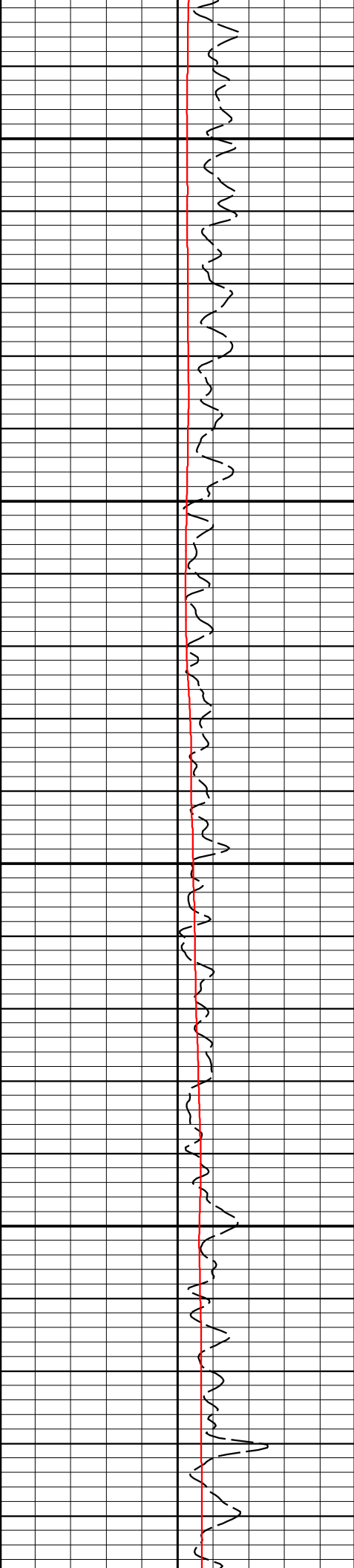
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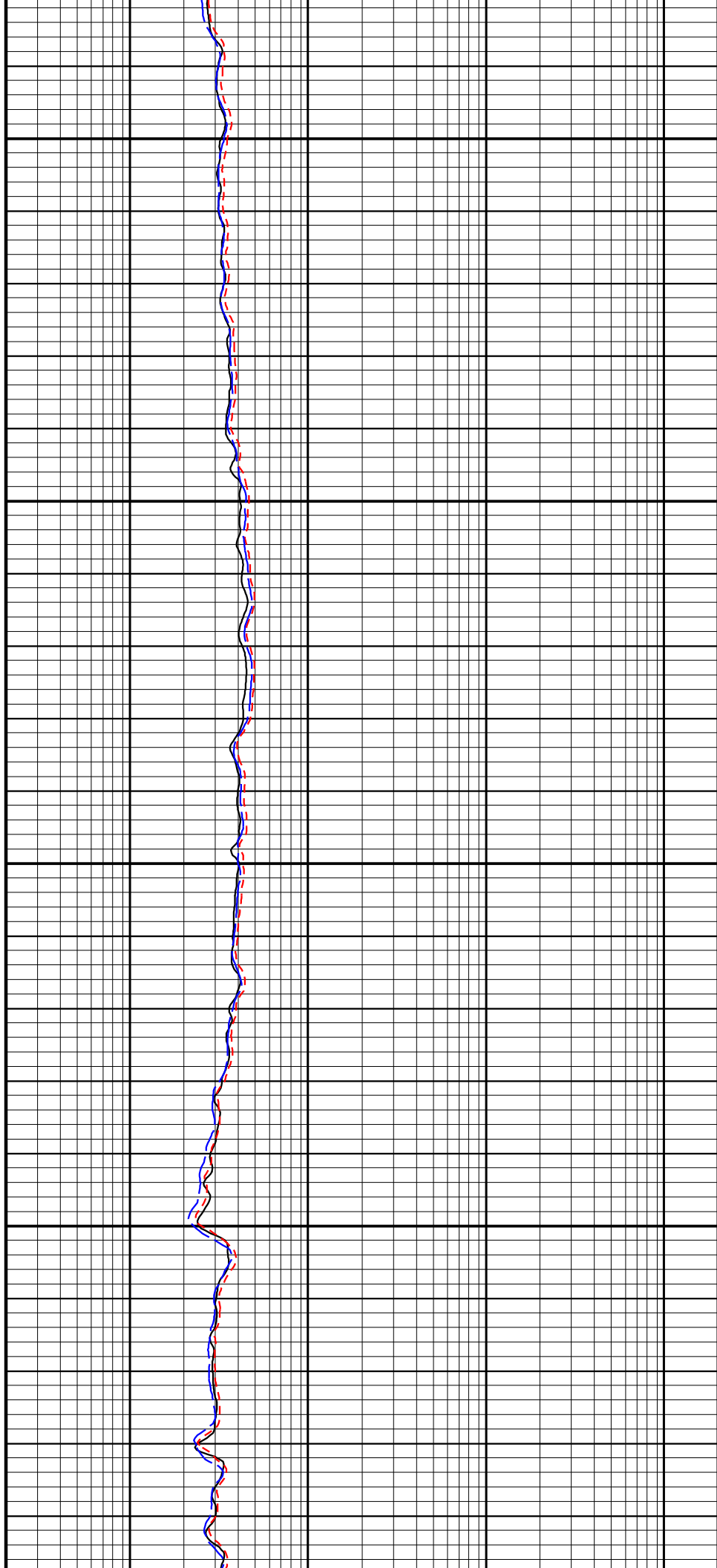


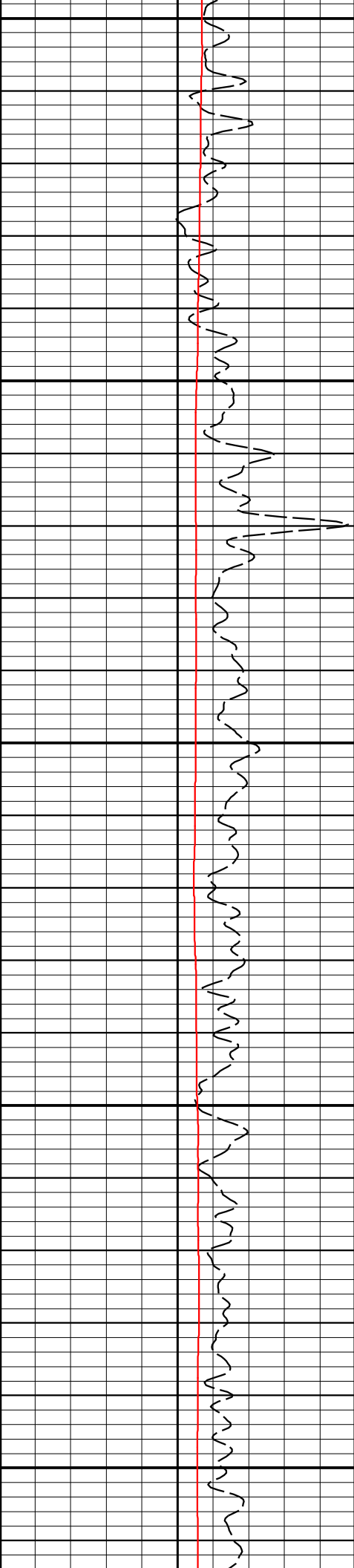
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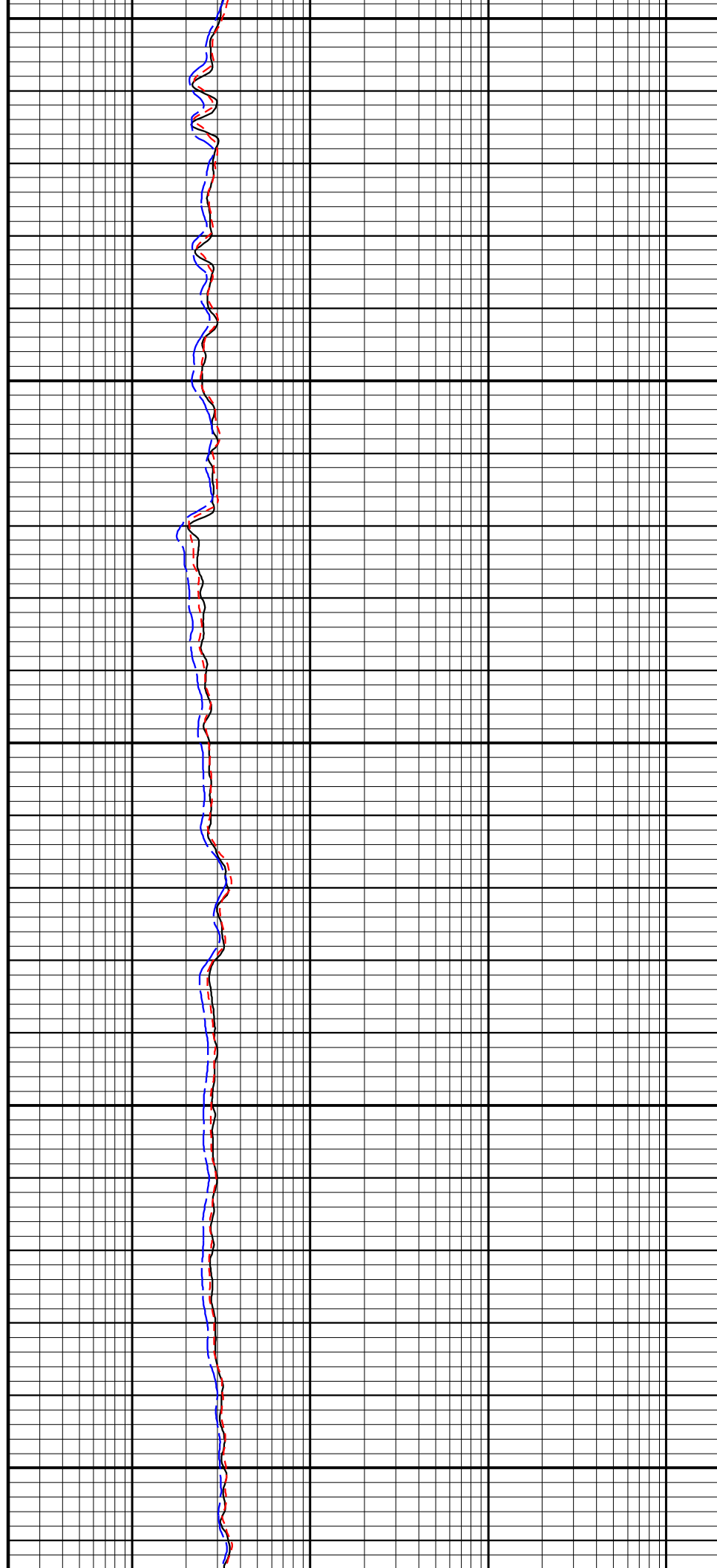
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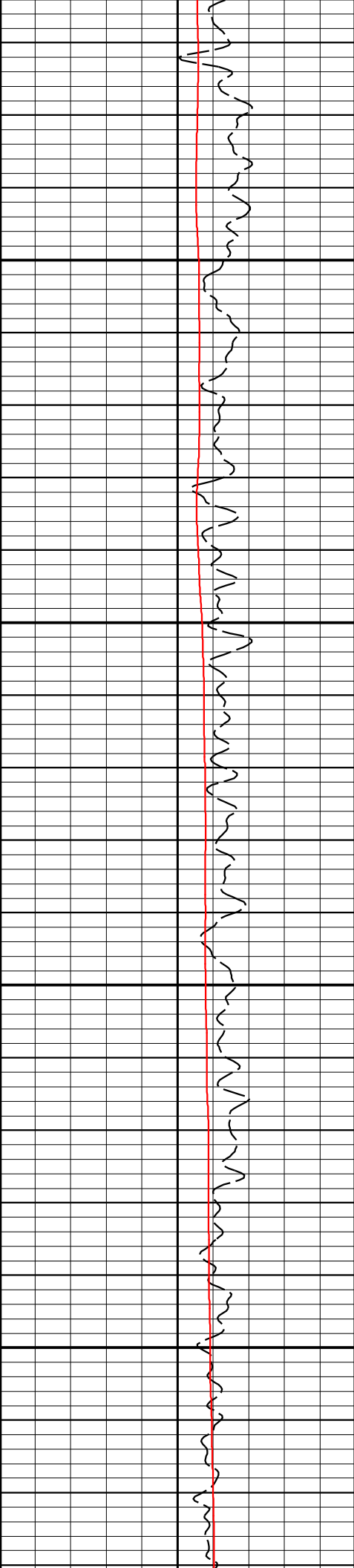
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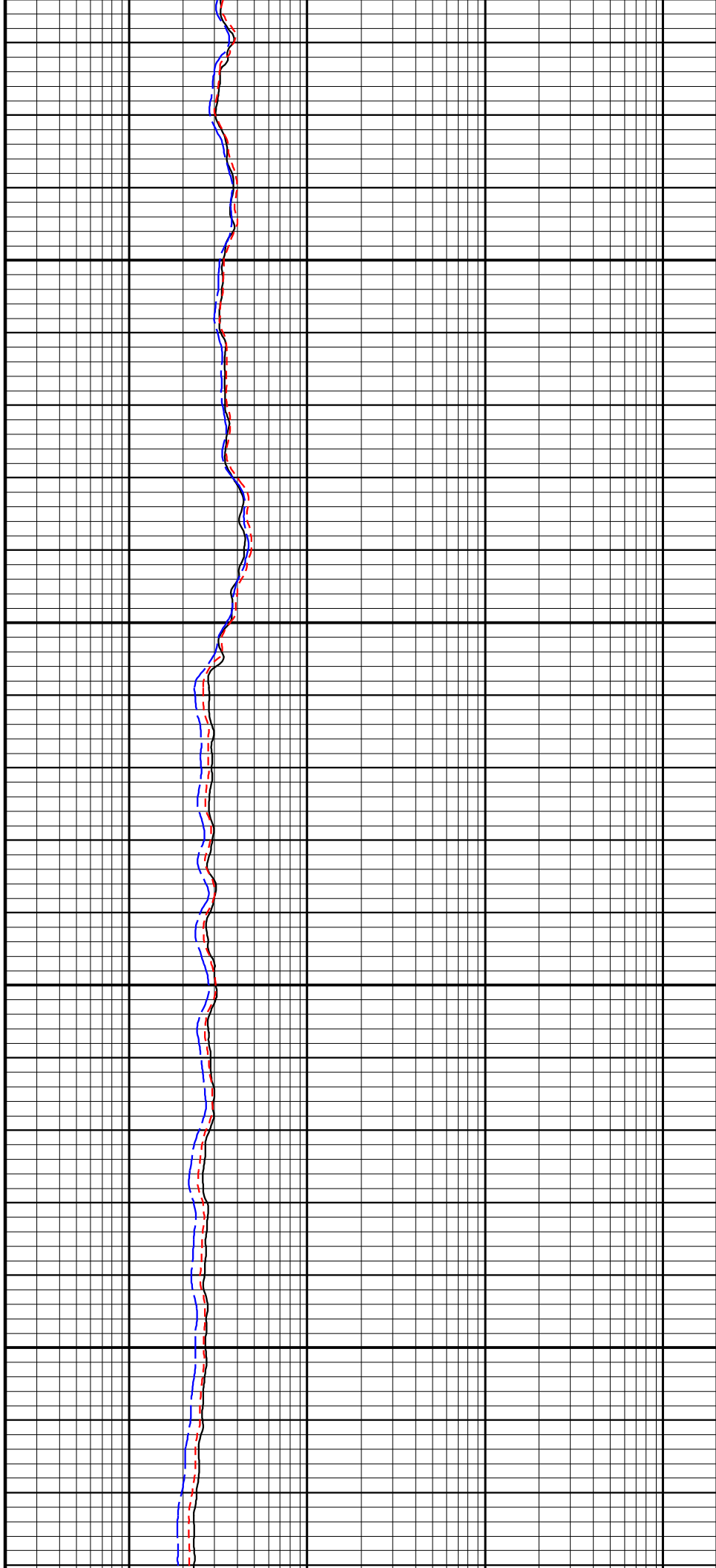


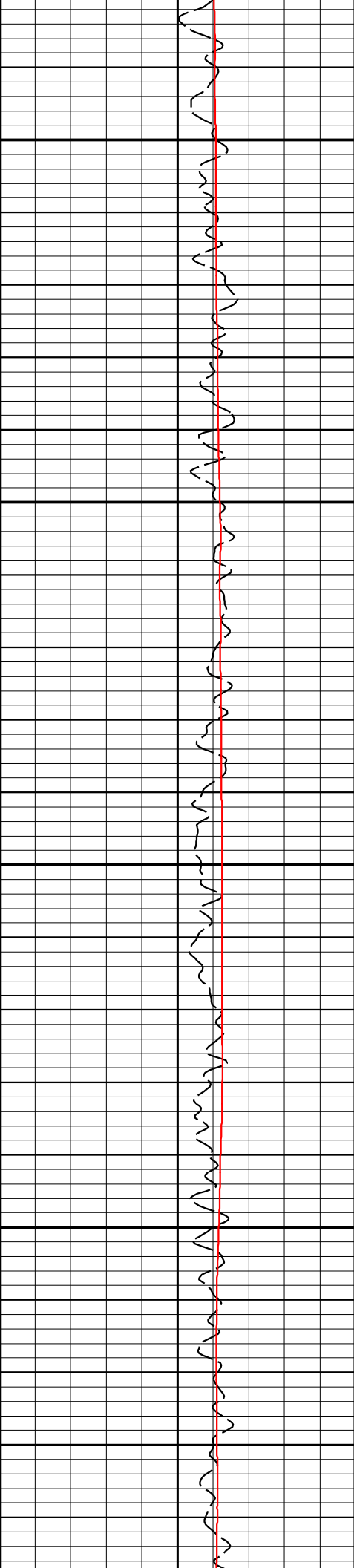
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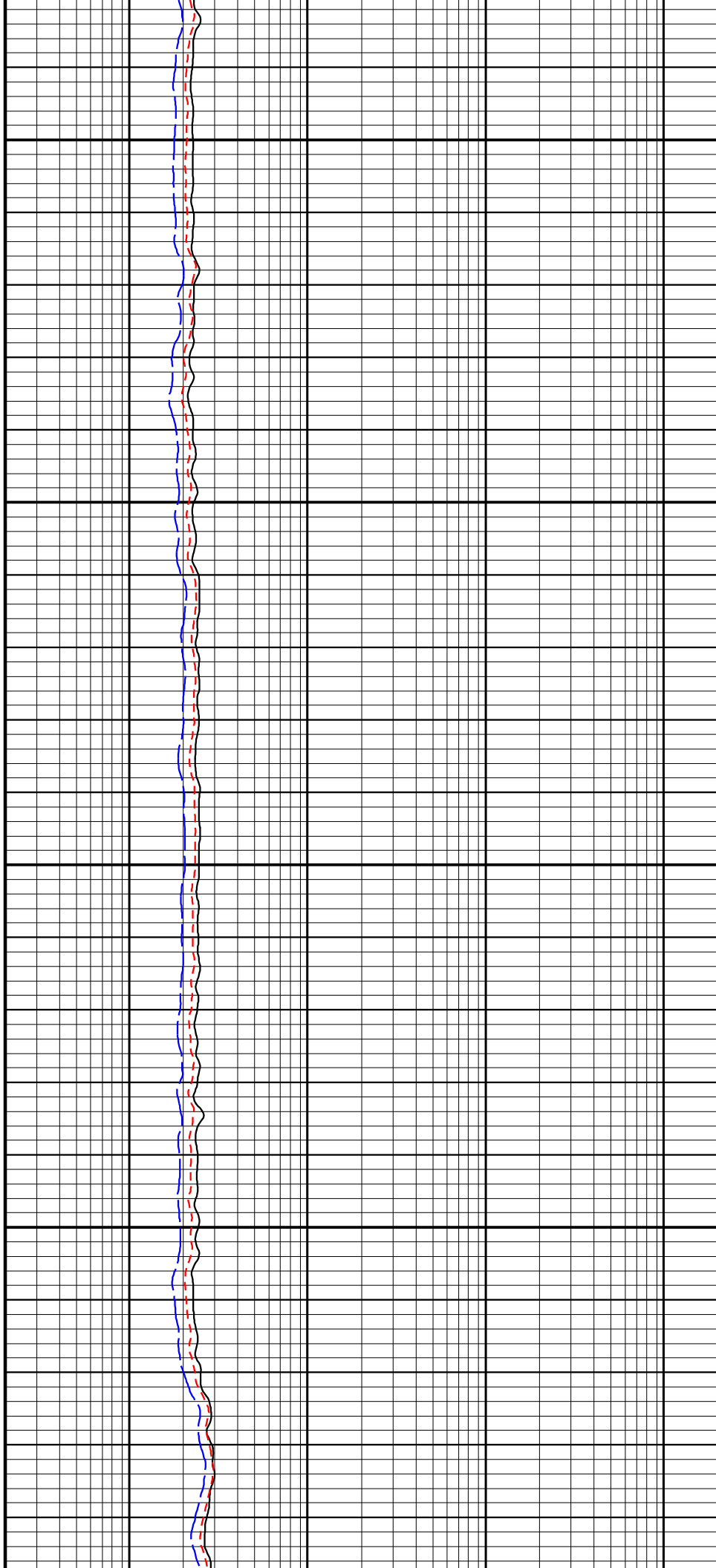


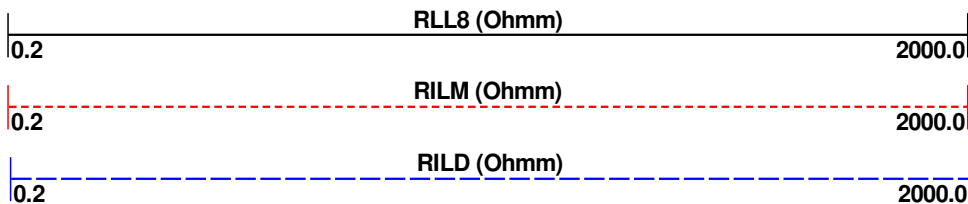
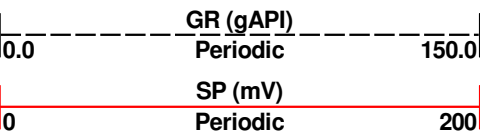
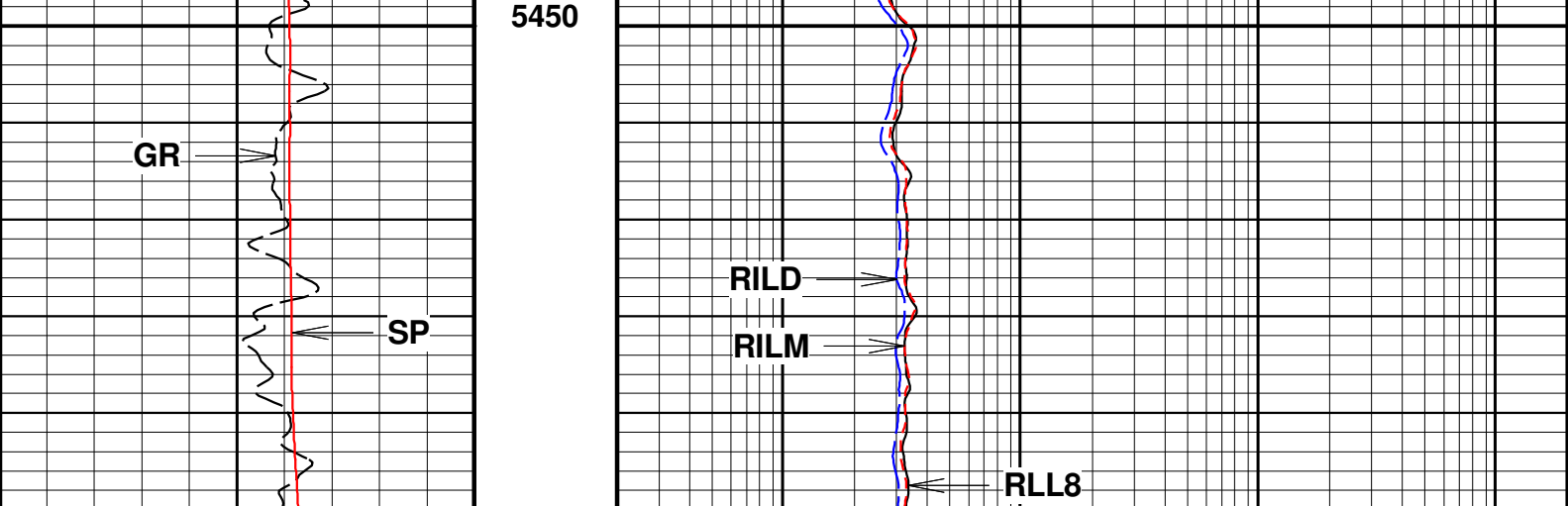
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File : C:\Welldata\2-013979_PTASNIK 2-30-9-59\2015183.cvf

Tool name : **Tension**

Asset : **2015183**

Series : **Tension**

Source ID :

Tension

Two Point Calibration

Time Jan / 11 / 2013 14:32:00

Setup

Description

Setup Version 00000

Curve Name	pt	Raw Value	User Value	Device
Tension	1	800	0 N	
Tension	2	24375.3	44482 N	

Mult.

Add.

1.886805

-1509.444

File : C:\Welldata\2-013979_PTASNIK 2-30-9-59\AFC_1831A_024.cvf

Tool name : **TCMRT**

Asset : **024**

Series : **1831A**

Source ID :

Tension

Tension Calibration

Time

Setup

Description

Setup Version 00000

Curve Name	pt	Raw Value	User Value	Device
CHT	1	0 N	0 N	
	2	1 N	1 N	

Mult.

Add.

1.000000

0.000

File : C:\Welldata\2-013979_PTASNIK 2-30-9-59\AFC_0930A_021.cvf

GR

Gamma Calibration

Time Feb / 03 / 2015 09:28:27

Setup

Description

Setup Version 00001

Block	Raw Value	User Value	Device	Device SN	Mult.
Background	98.5346				
Jig ON	632.239				
Gamma	533.7044	150.0004 gAPI			0.2810552

Gamma Primary Verification

Time Mar / 27 / 2015 14:05:17

Setup

Description API Test Pit

Setup Version 00001

Block	Device	Device SN	Raw Value	User Value
Background			70.4695	
Jig ON			608.225	
Gamma				151.1382 gAPI

File : C:\Welldata\2-013979_PTASNIK 2-30-9-59\AFC_1141B_018.cvf

Deep

Conductivity Calibration

Time Jan / 28 / 2015 09:21:21

Setup

Description 11/10/14 ANTUSA

Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
CILDRaw	1	-2.46697 mV	0 mS/m		0.799760	1.973
	2	498.433 mV	400.6 mS/m			

GwD

Array Calibration

Time

Setup

Description

Setup Version 00000

No	Value	No	Value	No	Value	No	Value	No	Value
01:	0								

CLL8**Conductivity Calibration**

Time Feb / 08 / 2015 18:01:59
Setup
Description
Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
CLL8	1	554.386 mV	500 mmho		0.898408	1.935
	2	-1.04095 mV	1 mmho			

Tool name : **DIL** Asset : **018** Series : **1141B** Source ID :

Medium**Conductivity Calibration**

Time Jan / 28 / 2015 09:24:20
Setup
Description 11/10/14 ANTUSA
Setup Version 00001

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
CILMRaw	1	-0.174575 mV	0 mS/m		0.956636	0.167
	2	480.677 mV	460 mS/m			

Tool name : **DIL** Asset : **018** Series : **1141B** Source ID :

GwM**Array Calibration**

Time
Setup
Description
Setup Version 00000

No	Value	No	Value	No	Value	No	Value	No	Value
01:	0								



COMPANY: CARRIZO NIOBRARA
WELL: PTASNIK No.2-30-9-59
FIELD: WILDCAT
COUNTY: USA
STATE: COLORADO