		MEASURED DEPTH COMPENSATED NEUTRON-DENSITY POROSITY PROPAGATION RESISTIVITY GAMMA RAY LOG	
Company: GREAT WESTERN OPERATING COMPANY LLC Well: SCHAEFER LD 13-033HN Field: WATTENBERG County: ADAMS State: CO		COMPANY: GREAT WESTERN OPERATING COMPANY LLC WELL: SCHAEFER LD 13-033HN FIELD: WATTENBERG COUNTY: ADAMS STATE: CO	
Permanent Datum: GROUND LEVEL Elevation: 5021.4 ft Log meas. from: KELLY BUSHING 20.0 ft above Perm. Datum Drill. meas. from: KELLY BUSHING		API No. 05-001-10253 Other Services Location LAT:39.944488 LON:-104.834676 N/A SEC: 24 TWP:1S RNG:67W 334' FSL 1949' FEL	
Date	08-FEB-2019	Elev.: K.B. 5041.4 ft D.F. ----- G.L. 5021.4 ft	
Run No.	1 (HORIZONTAL)	TVD	
Depth Driller	1804.4 ft	75/75.5 ft	
Depth Logger	1804.4 ft	75/75.5 ft	
Bottom Logged Interval	17836.4 ft	7625.1 ft	
Top Logged Interval	6703.0 ft	6597.0 ft	
Casing Driller	1781.0 ft	1780.7 ft	
Casing Logger	N/A	N/A	
Bitsize	8.5 in		
Type Fluid in Hole	OBM		
Density / Viscosity	10.5 ppg 64 s/qt		
pH / Water Loss	N/A 9		
Source of Sample	N/A		
Rm at Meas. Temp.	N/A		
Rmf at Meas. Temp.	N/A		
Rmc at Meas. Temp.	N/A		
Source Rmf/Rmc	N/A N/A		
Rm at BHT	N/A		
End Circulation	08-FEB-2019 @ 05:00		
Logger on Bottom	08-FEB-2019 @ 07:25		
Max. Recorded Temp.	240.7 °F		
Equip. No / Location	DL-313 OKC		
Recorded by	M CORTEZ	J SLAFF	
Witnessed by	JW COOPER		

Fold Here

In making interpretations of logs, Contractors employees will give the Customer the benefit of their best judgement, but since all interpretations are opinions, based on inferences from electrical or other measurements, Contractor cannot, and does not guarantee the accuracy or the correctness of any interpretation.

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REMARKS

TOOLS PUMPED DOWN FROM SURFACE; LOGGING PERFORMED WHILE TRIPPING OUT

COMPENSATED NEUTRON-DENSITY PRESENTED IN SANDSTONE AND LIMESTONE MATRIX

MAX DEVIATION: 91.4 DEG @ 16157.0 ft

DRILLING RIG: PRECISION DRILLING 460

SURFACE CASING SIZE: 9.625 in, 36 lbm/ft FROM 0.0 ft TO 1781.0 ft

BITSIZE: 8.5 in FROM 1781.0 ft TO 18044.1 ft

ALL LOG DEPTHS WERE RECORDED WITH EDR (TOTCO), AND CORRECTED TO PIPE TALLY

SPECTRAL GAMMA CURVES NOT AVAILABLE

EQUIPMENT DATA				
Run	Trip	Instrument	Serial No.	Series No.
1	1	TELEMETRY	3102003	
1	1	SGR	1460018	
1	1	GR-CN	1473013 U	1473013 L
1	1	KNUCKLE	0813005	
1	1	DENSITY	1481020	
1	1	PRT	PRTX014	
1	1	STEEL COLLAR	DL-45XH-5	
1	1	OMEGA COLLAR	DL-45XH-5	

1	1	OMEGA COLLAR	RSA63006		
1	1	Am241Be / Cs137	34981B	63550B	

2" MAIN PASS SANDSTONE

Company : GREAT WESTERN OPERATING COMPANY

Well : SCHAEFER LD 13-033HN

Scale : 1 : 600

Depth in : Feet

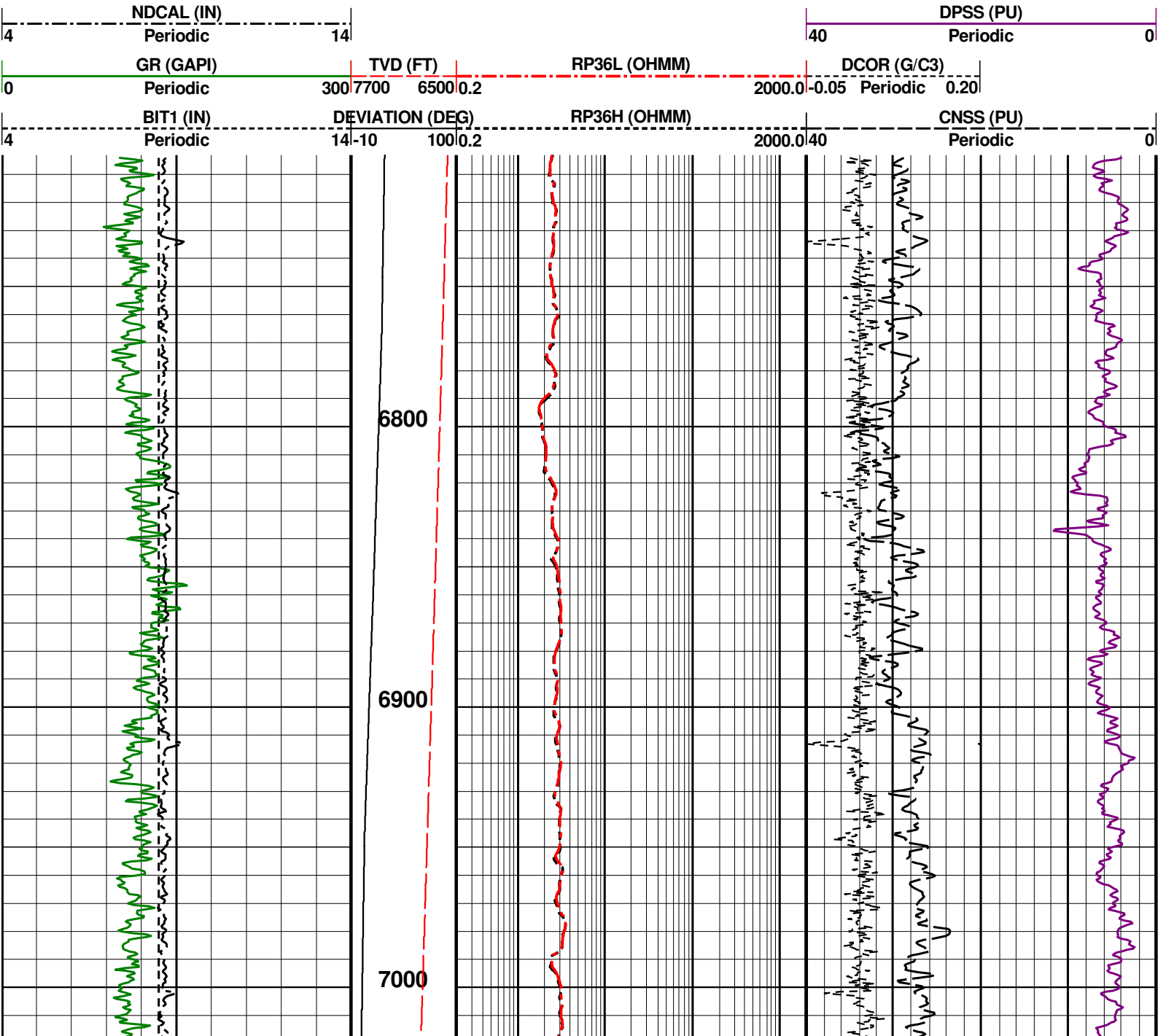
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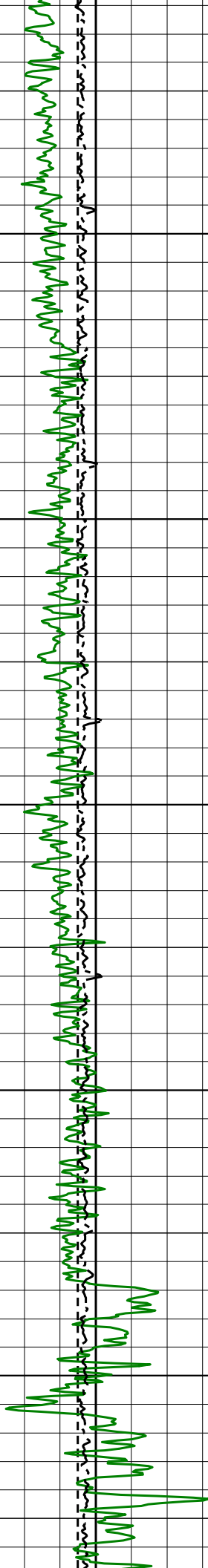
Date : 08-FEB-2019

Time :

Remarks : SANDSTONE MATRIX

File Name : 812_05-001-10253_MAIN MD





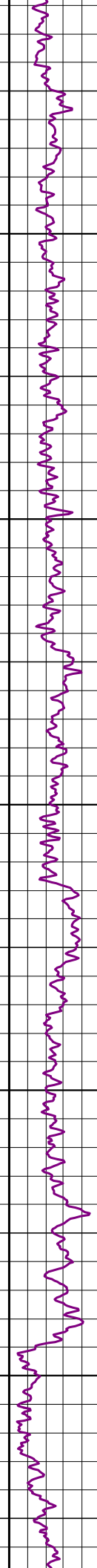
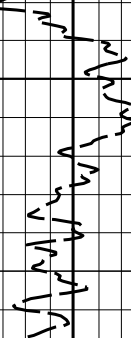
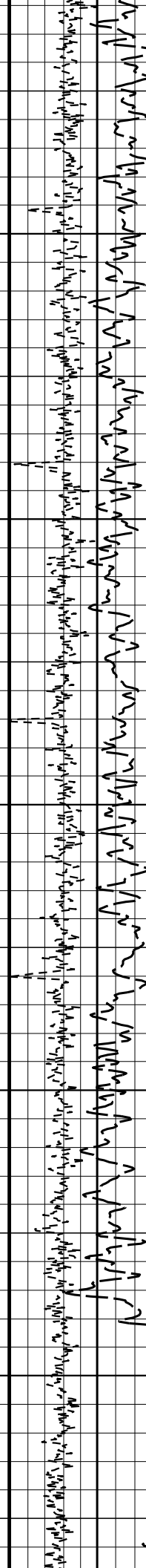
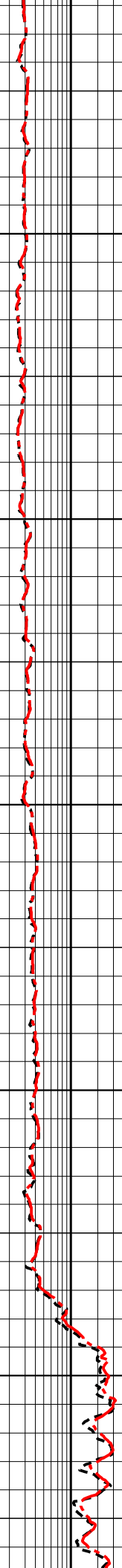
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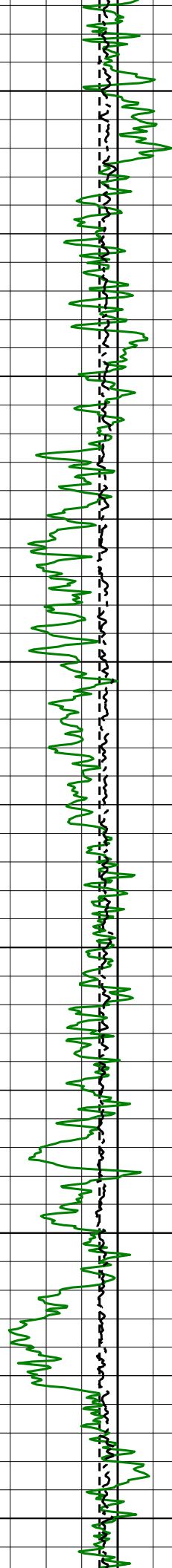
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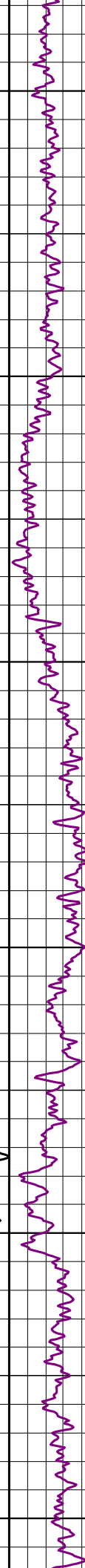
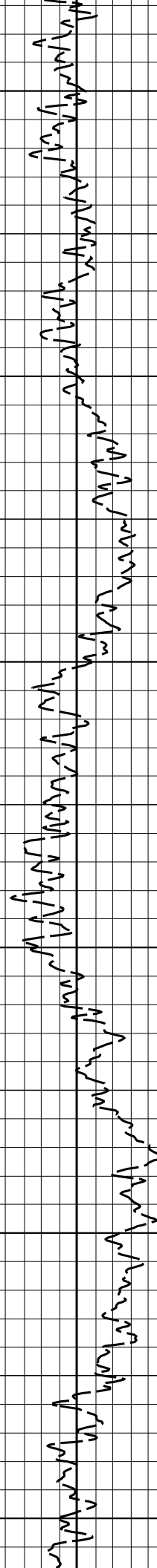
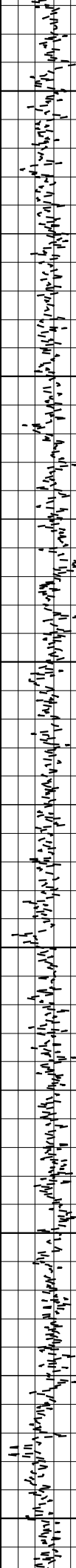
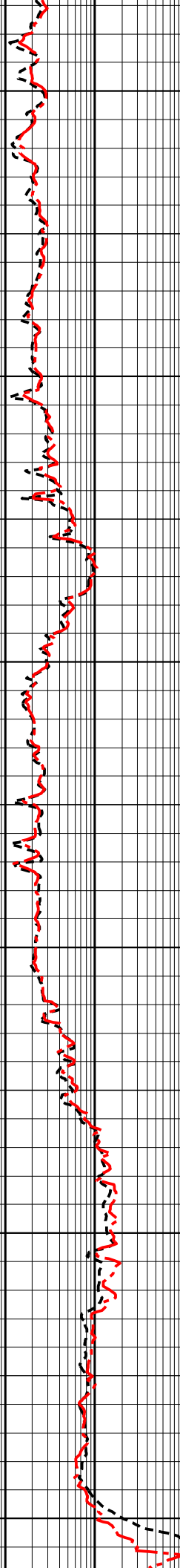
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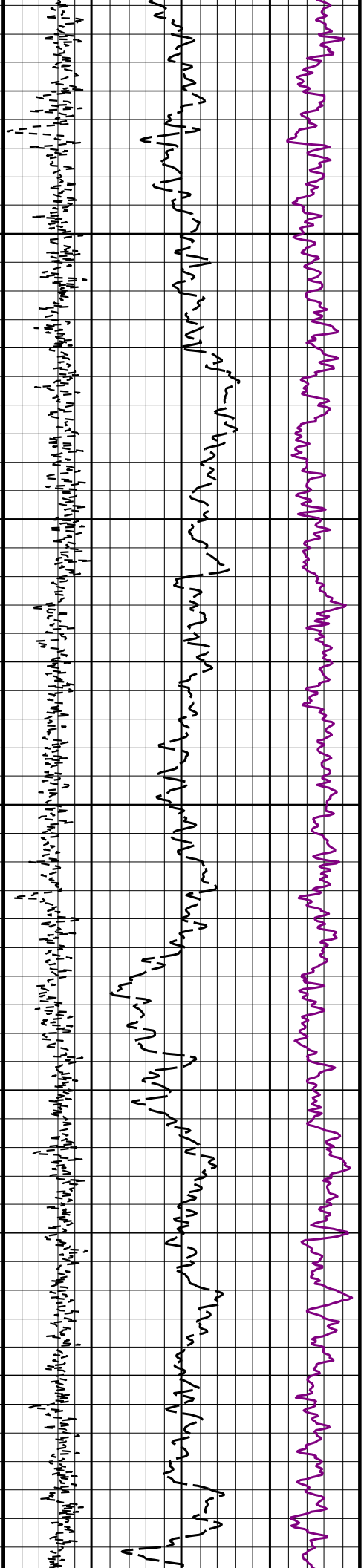
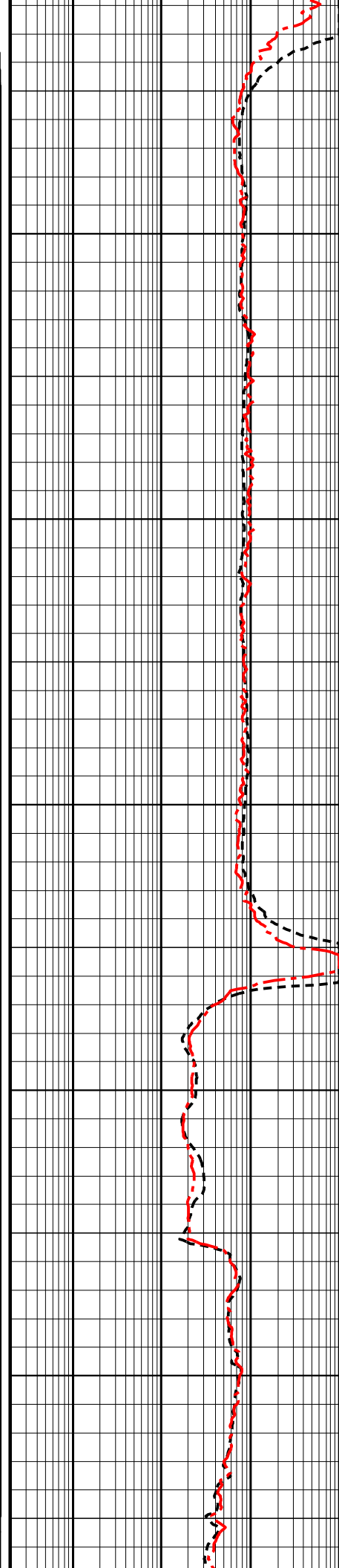
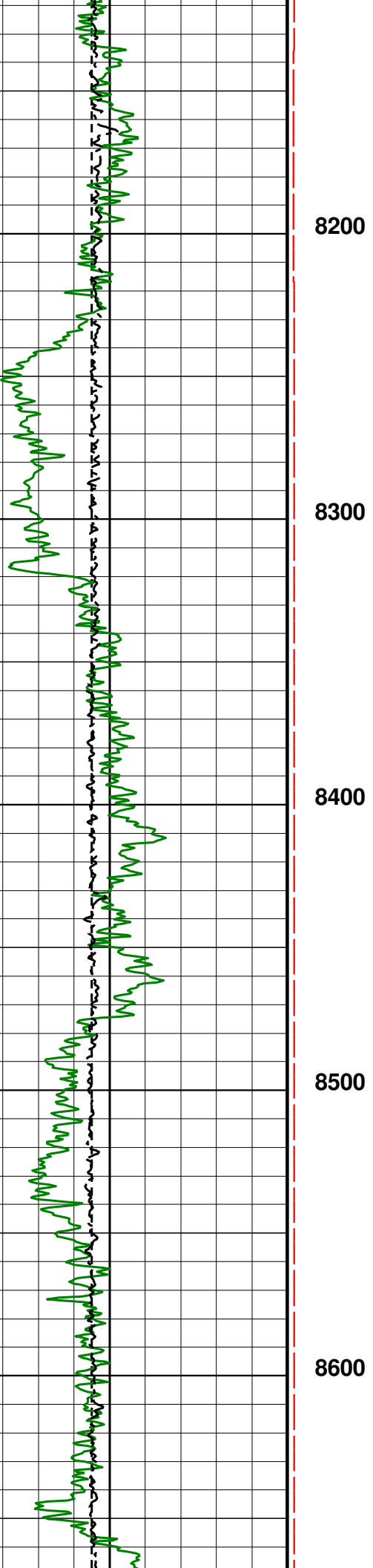
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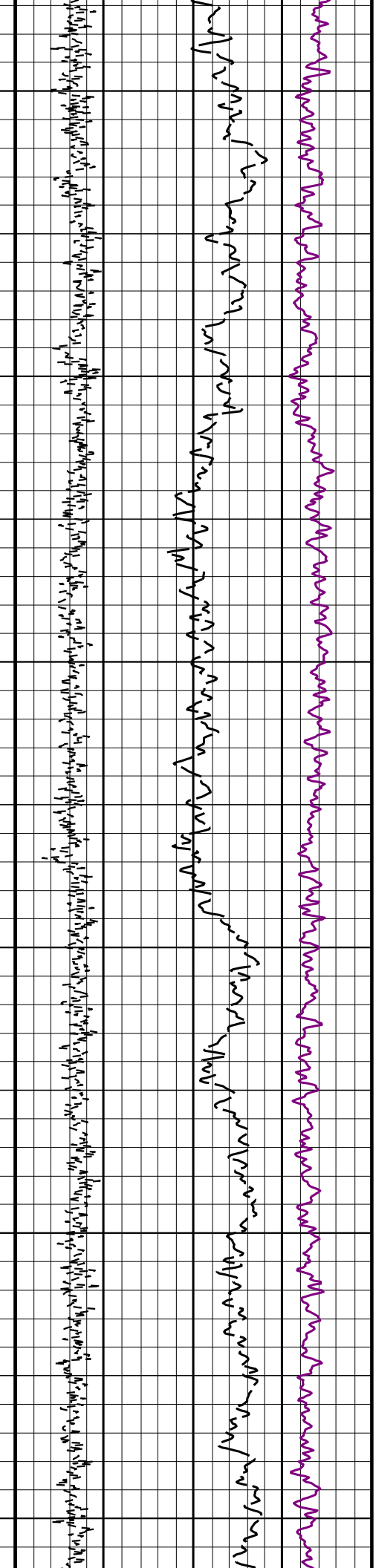
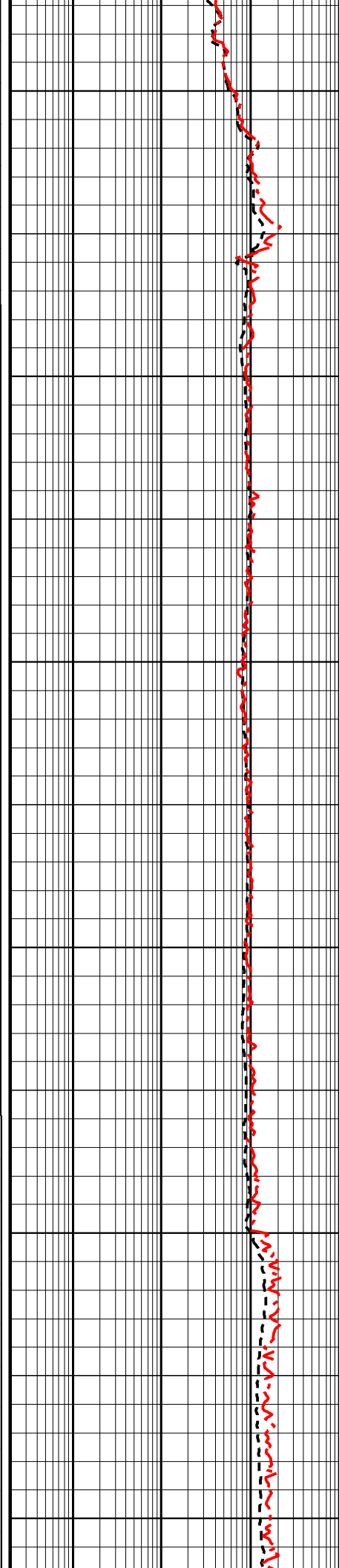
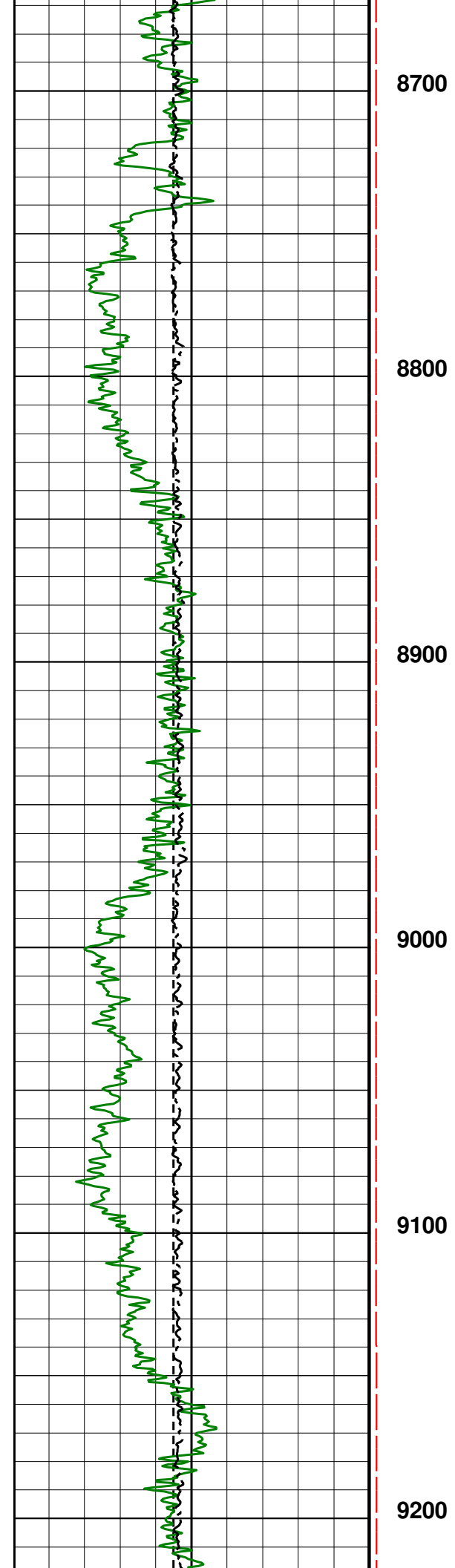
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Handwritten notes in purple ink, appearing as a continuous wavy line across the top of the page.

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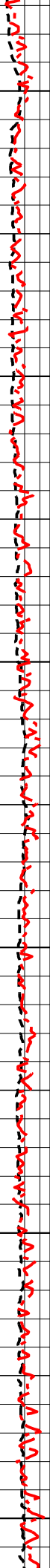
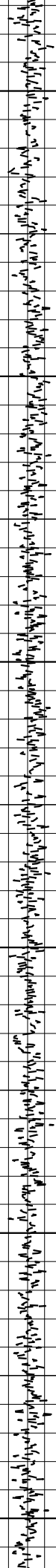
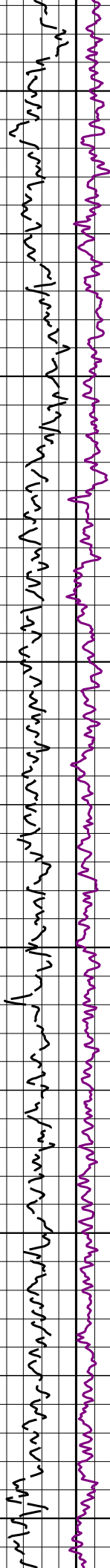
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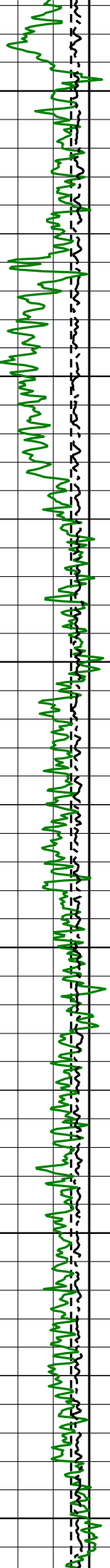
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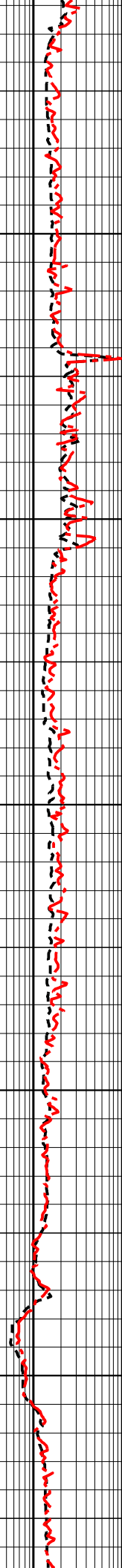
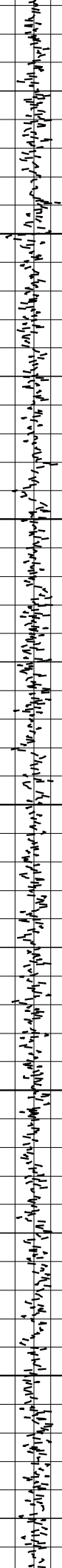
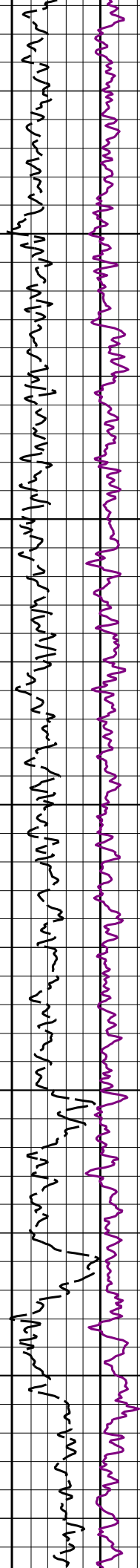
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9800 9900 10000 10100 10200 10300





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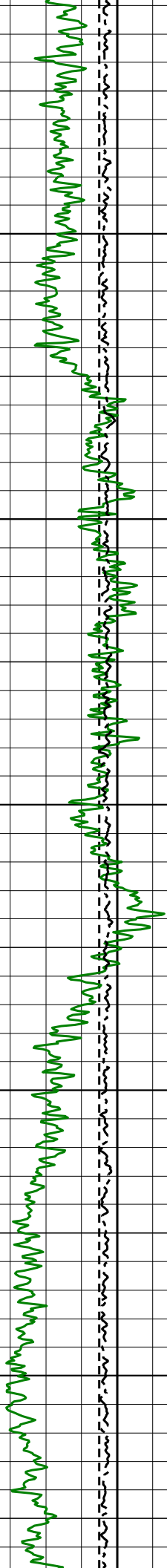
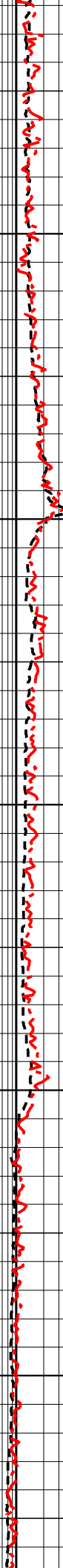
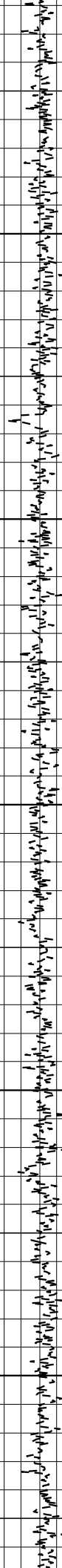
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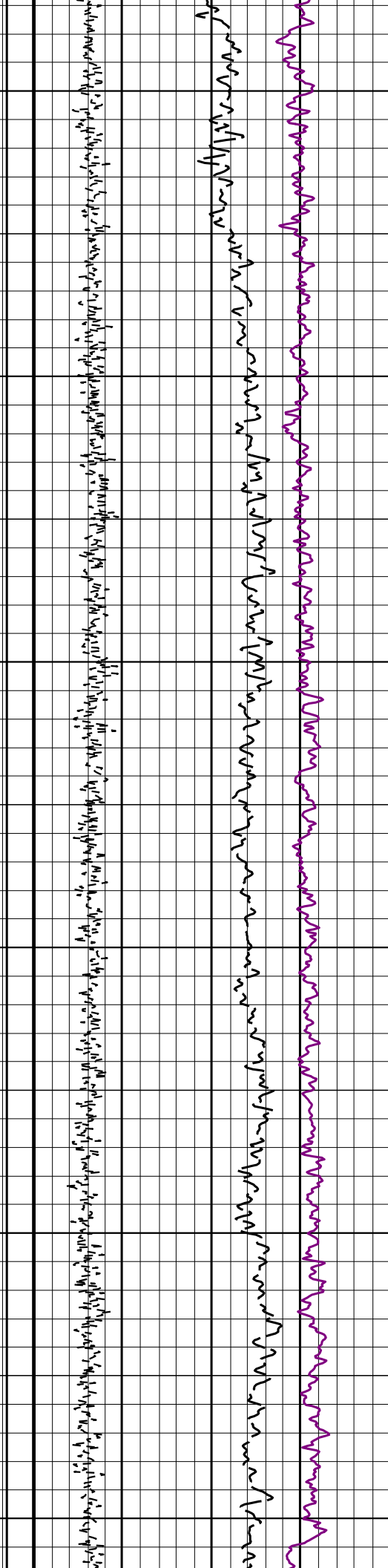
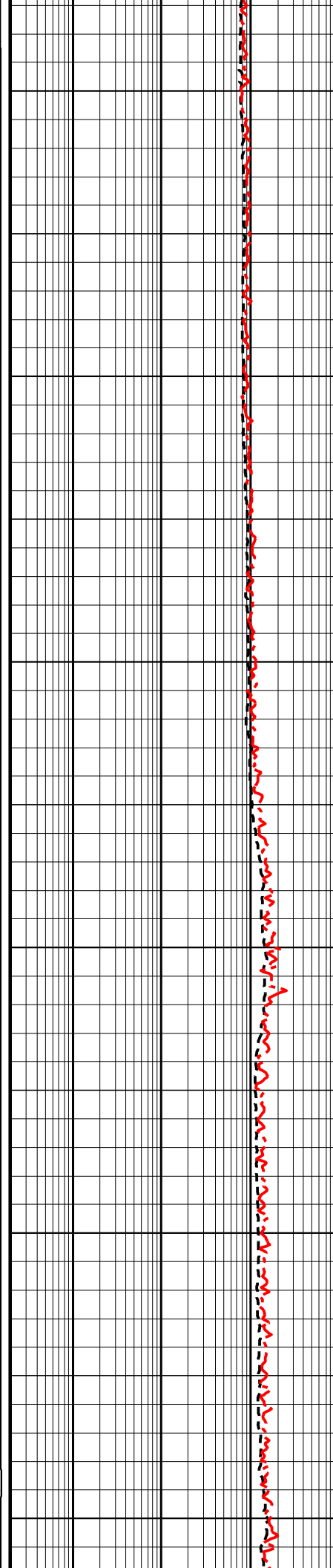
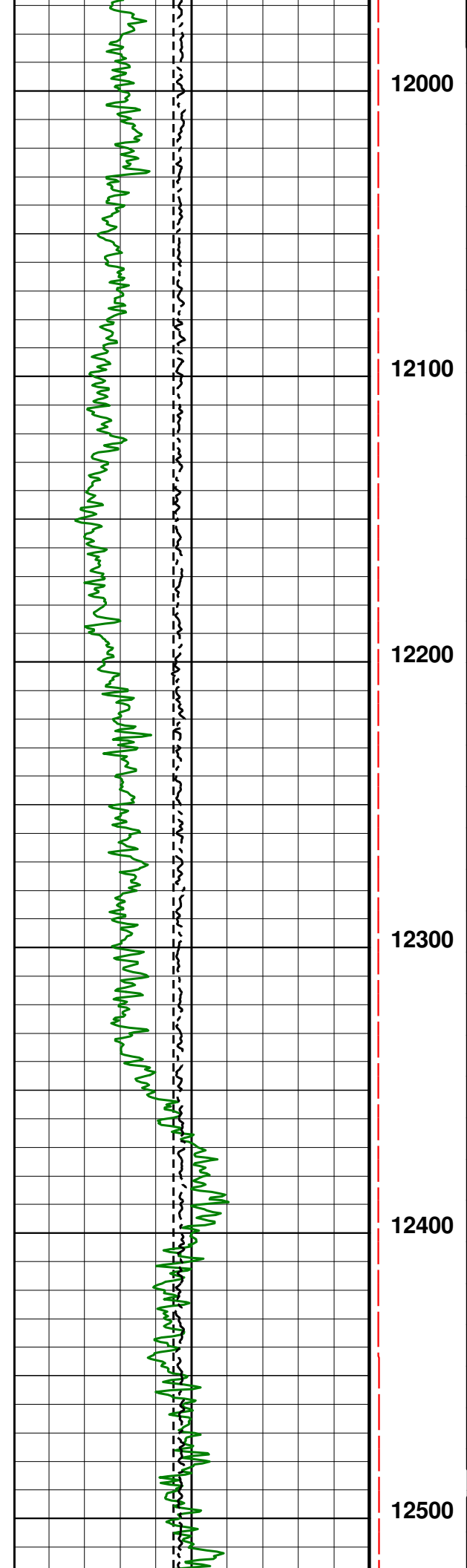
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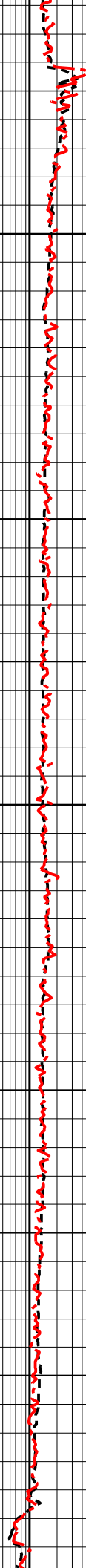
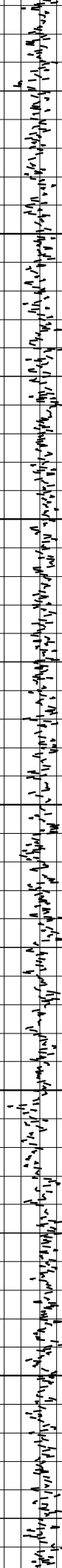
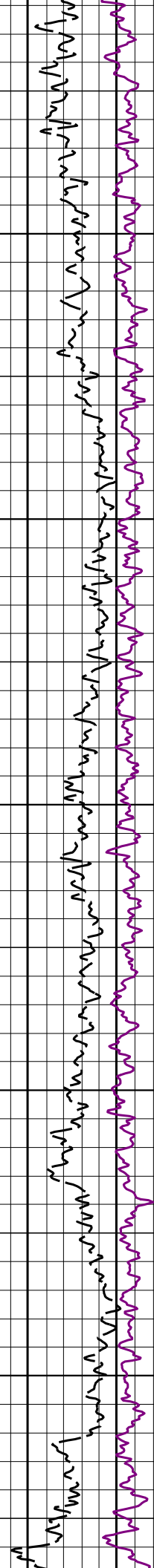
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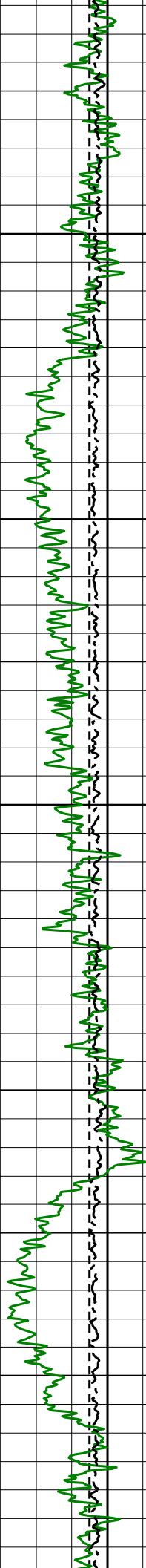
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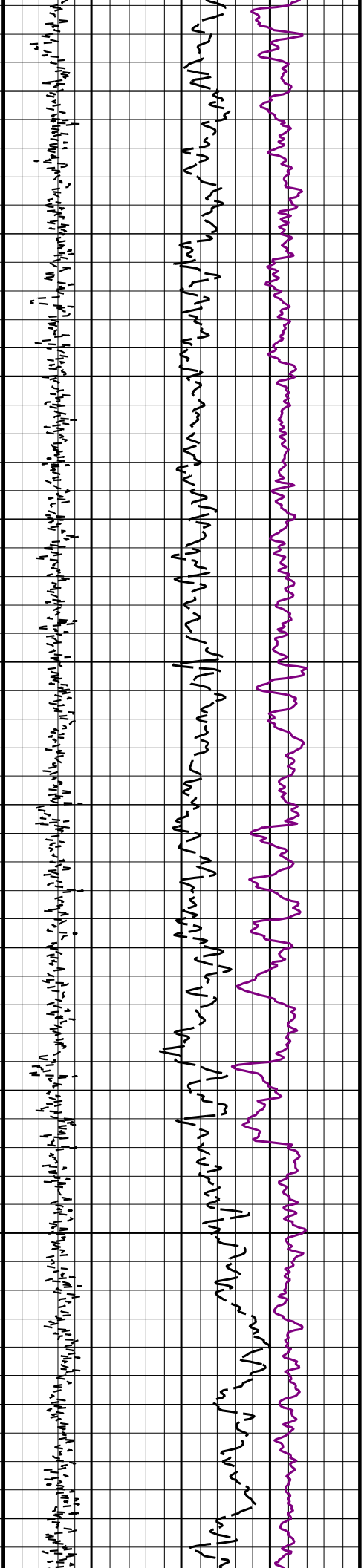
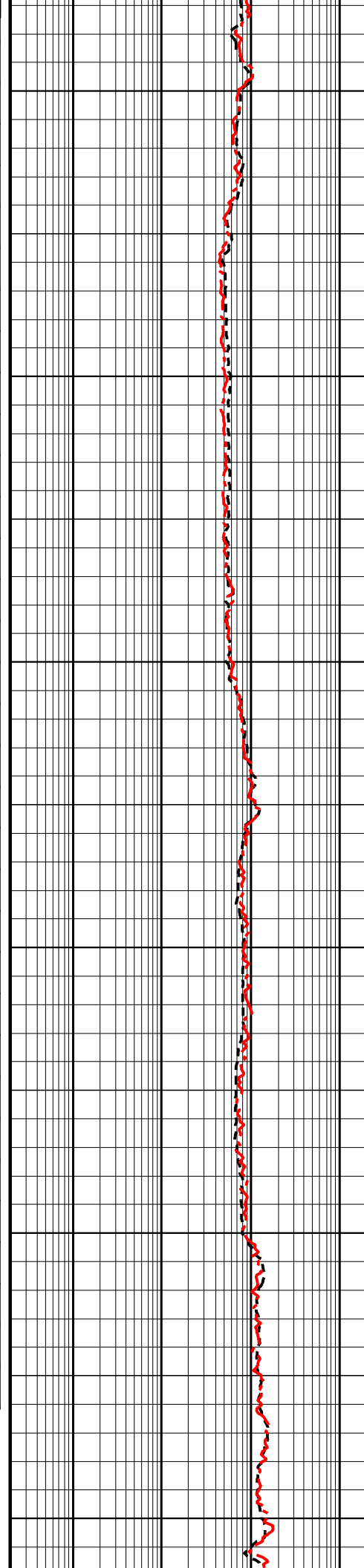
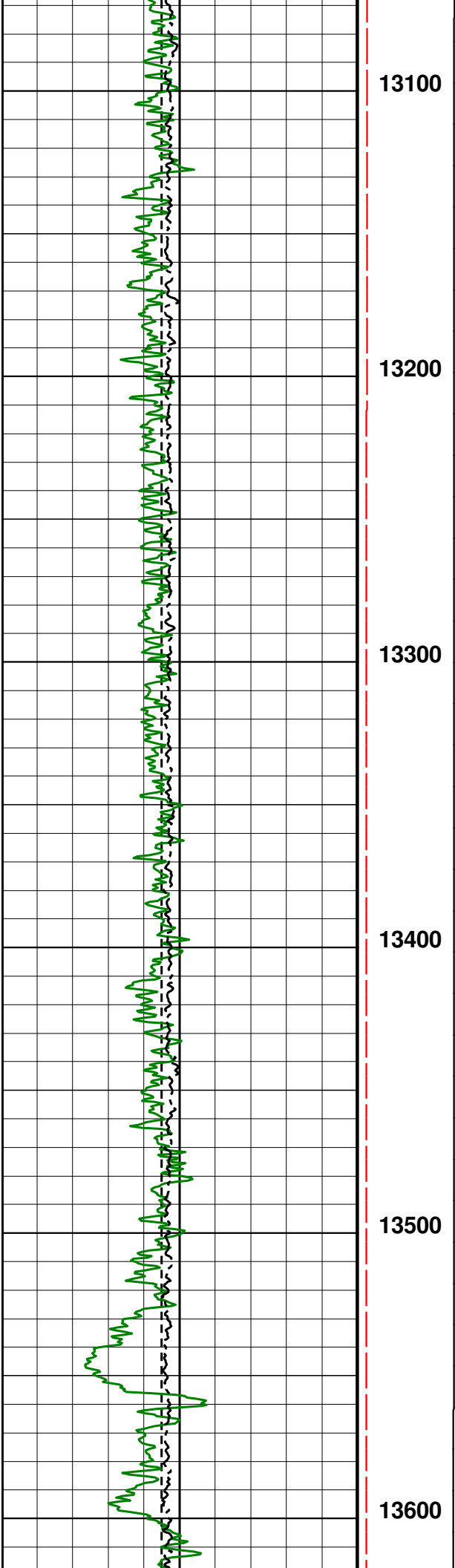
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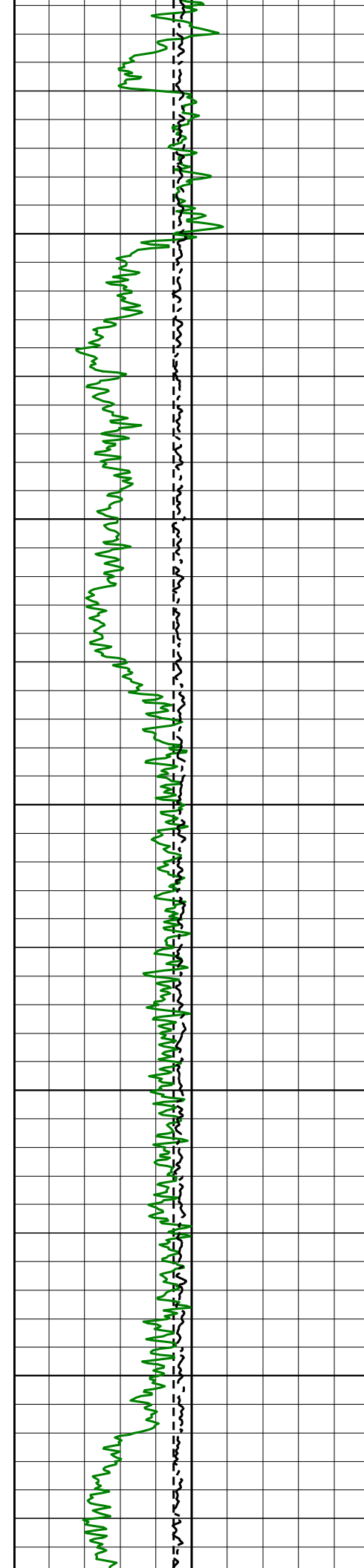
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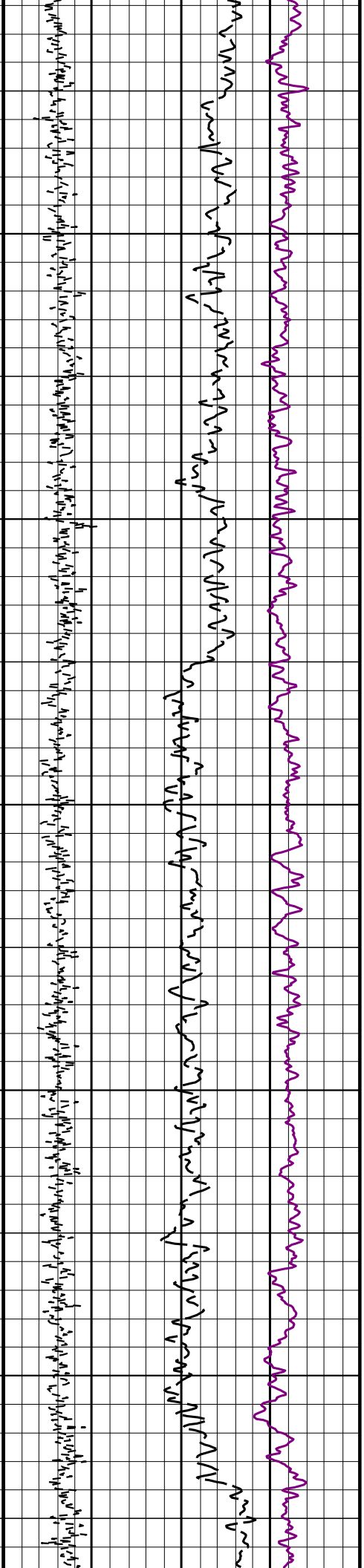
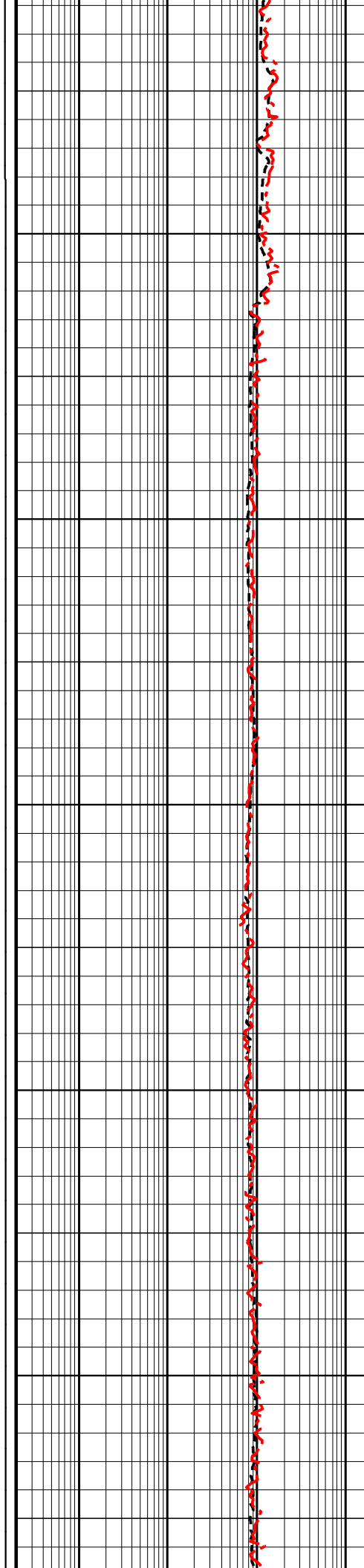
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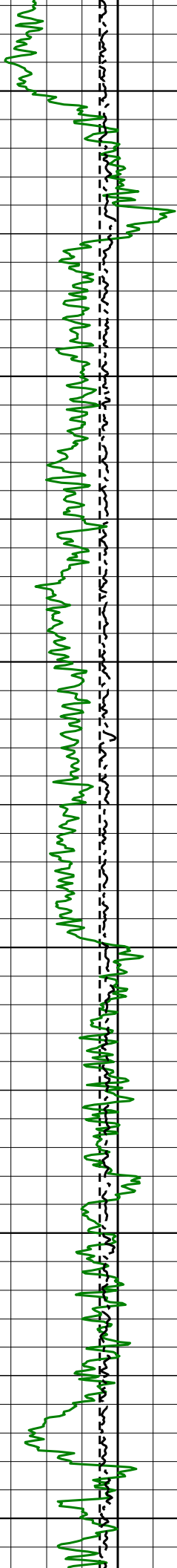
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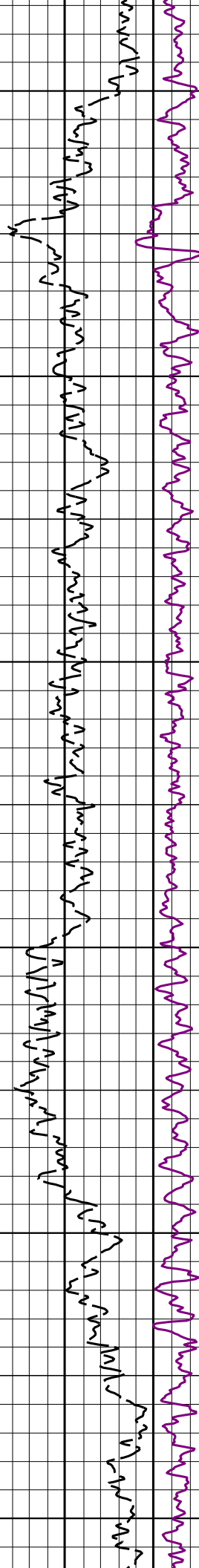
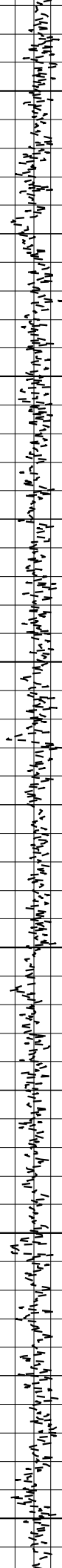
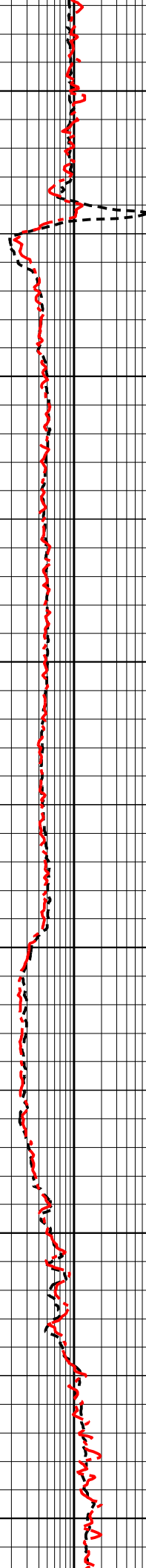
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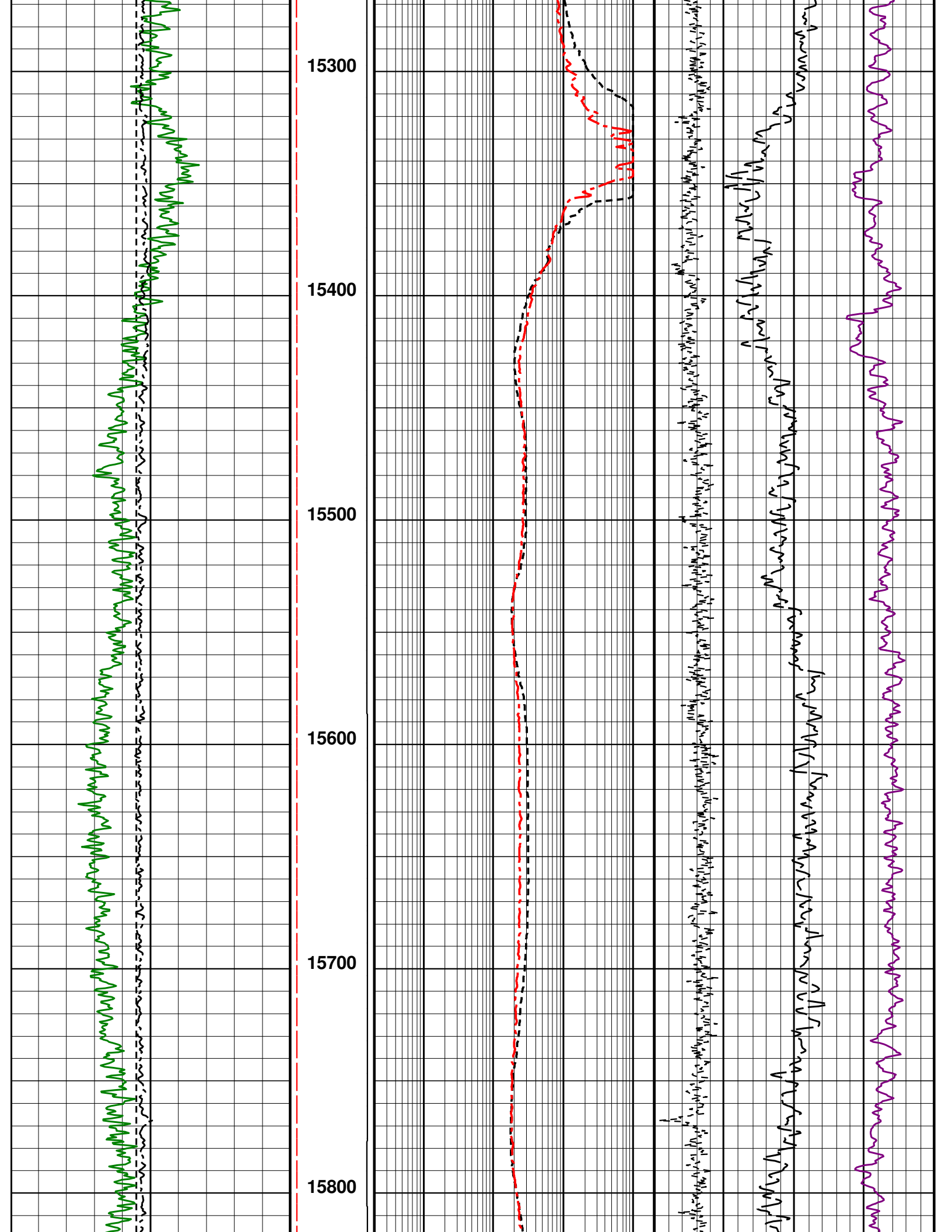
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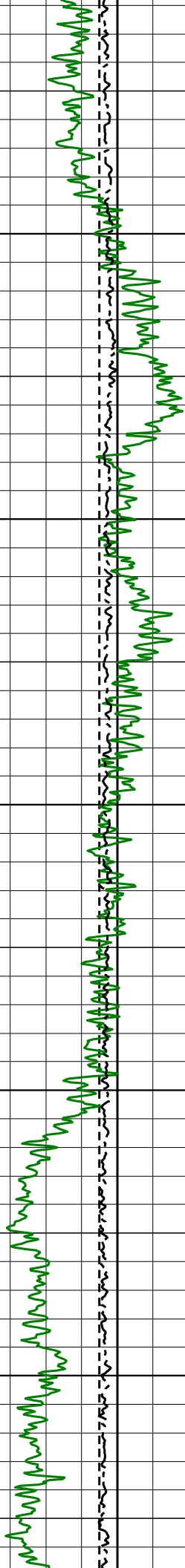
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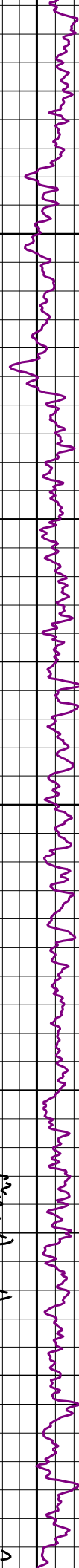
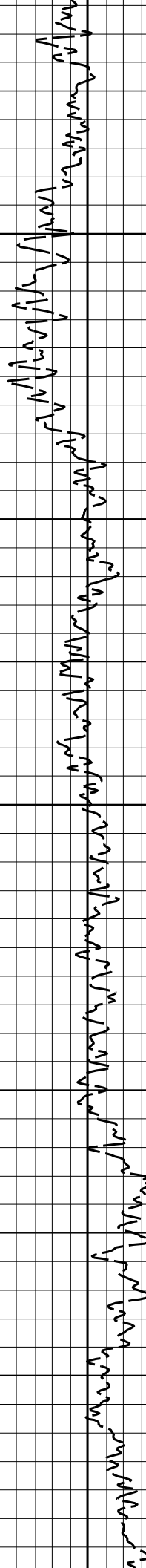
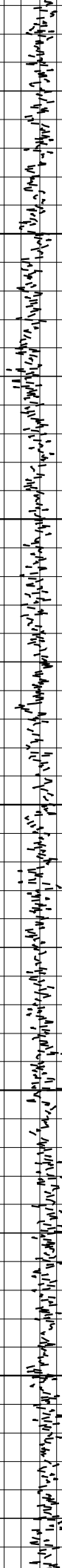
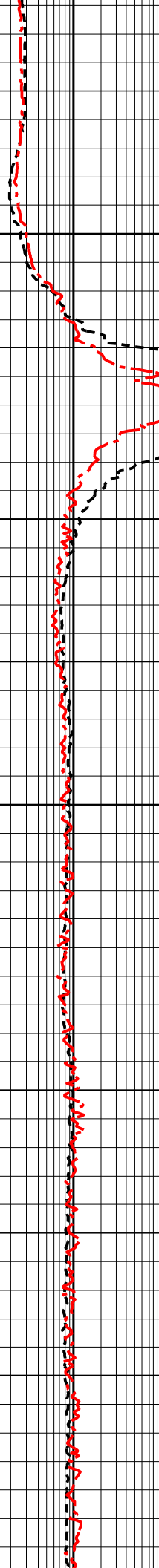
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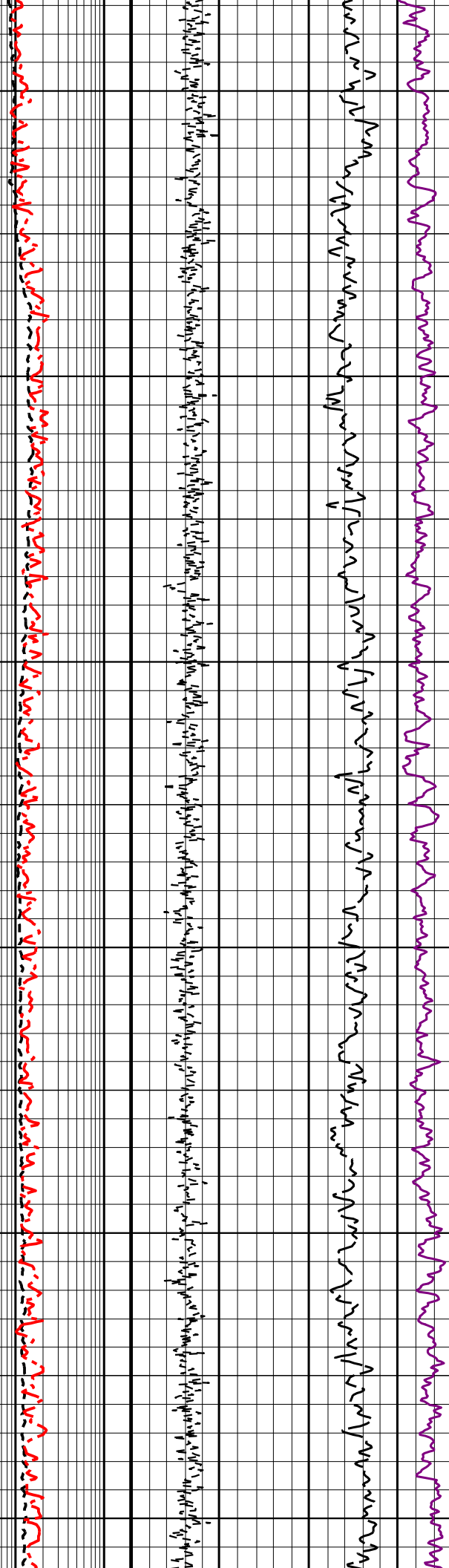
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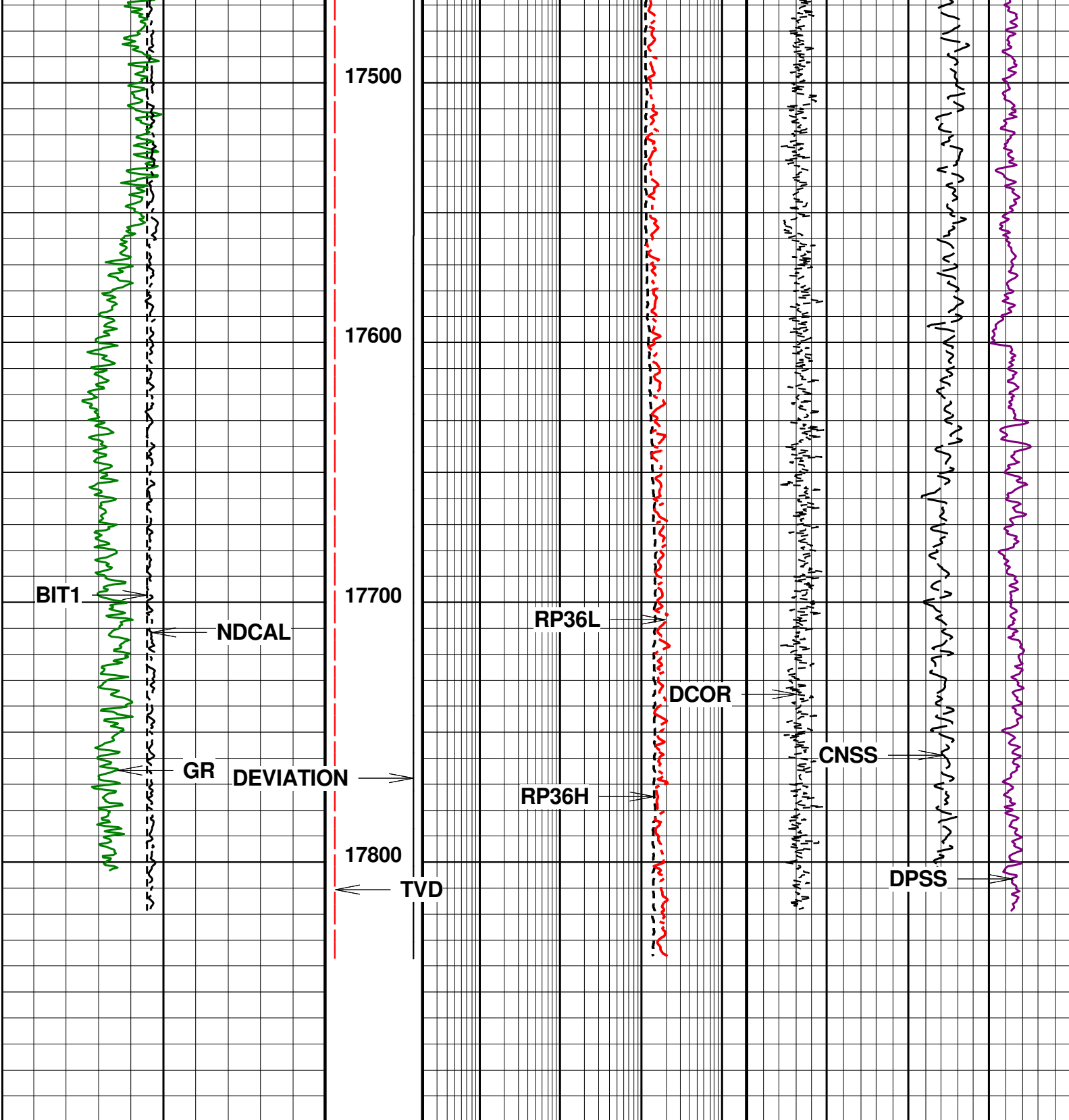
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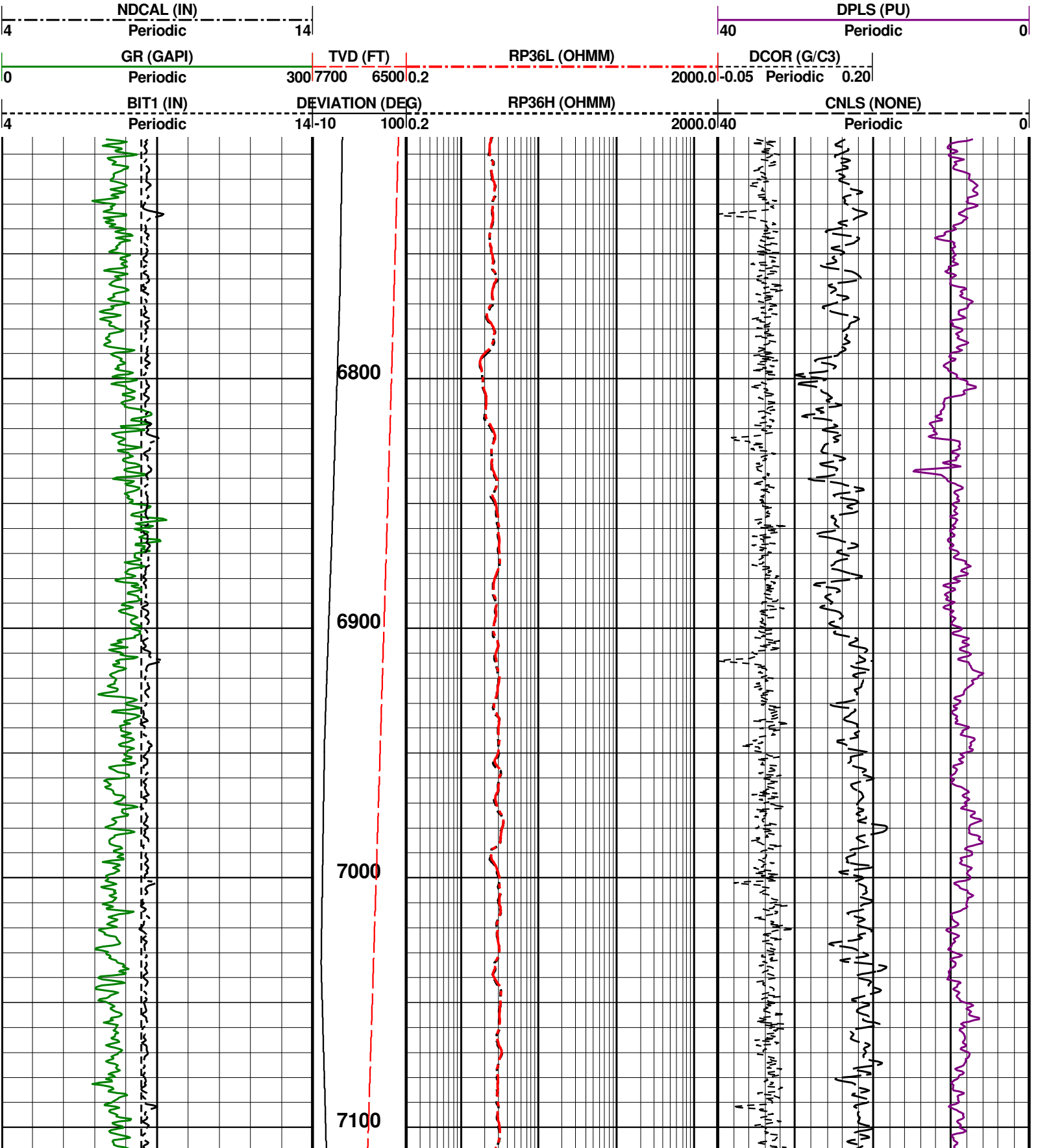


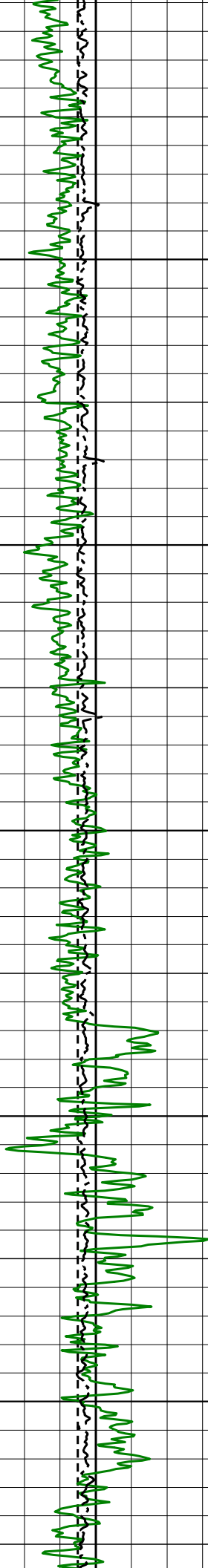
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0	GR (GAPI)	Periodic	300	TVD (FT)	7700	6500	0.2	2000.0	-0.05	DCOR (G/C3)	Periodic	0.20
4	NDCAL (IN)	Periodic	14							DPSS (PU)	Periodic	0

2" MAIN PASS LIMESTONE

Company : GREAT WESTERN OPERATING COMPANY
Well : SCHAEFER LD 13-033HN
Scale : 1 : 600
Depth in : Feet
Software : WinAPlot Ver. 5, 87, 2, 0

Date : 08-FEB-2019
Time :
Remarks : LIMESTONE MATRIX
File Name : 812_05-001-10253_MAIN MD





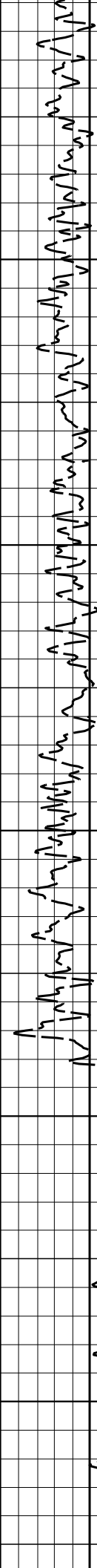
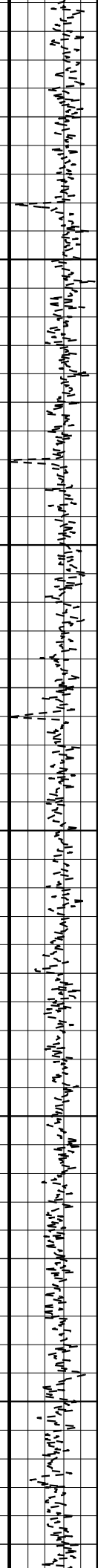
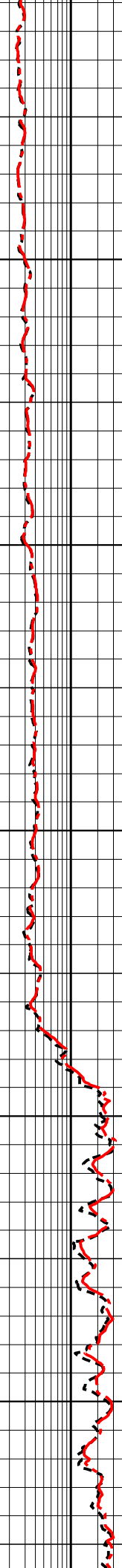
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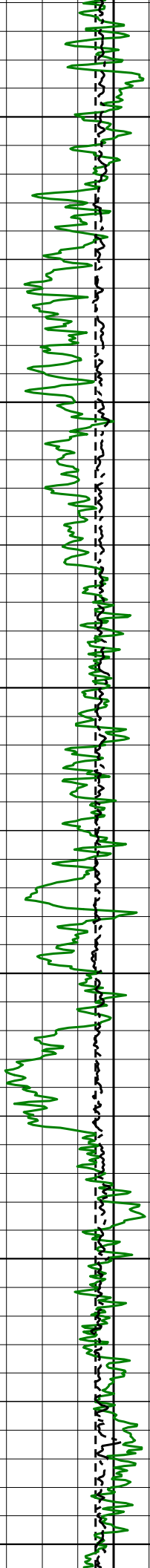
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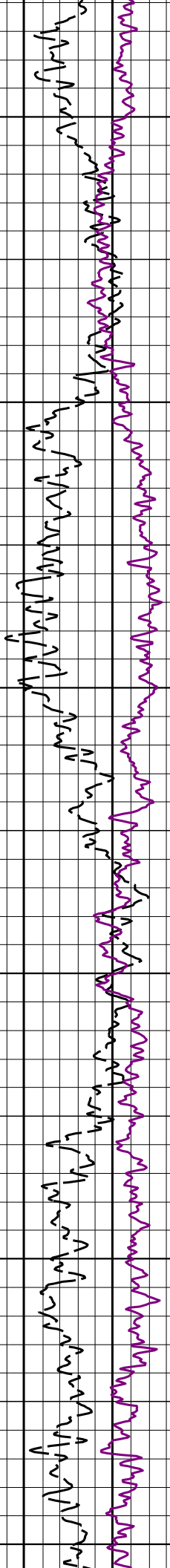
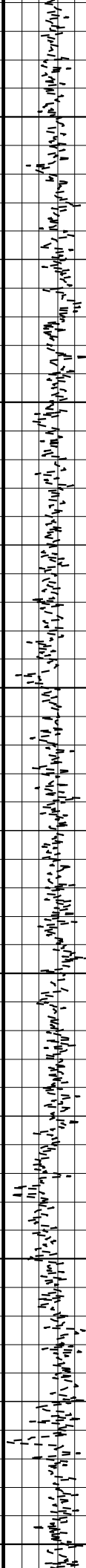
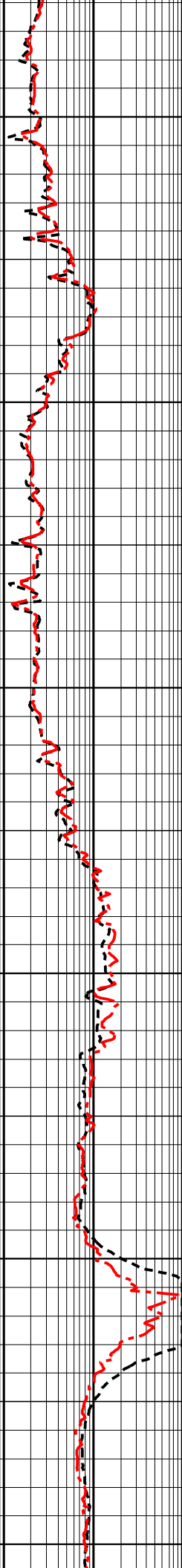
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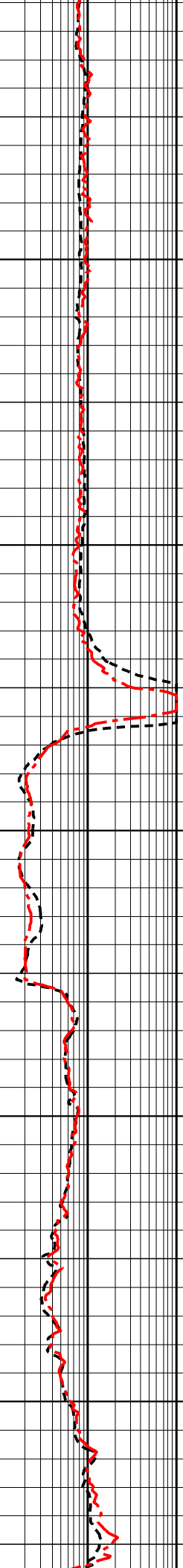
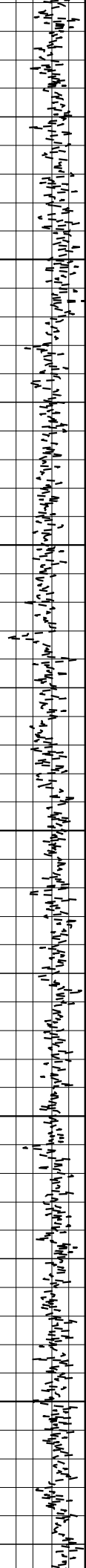
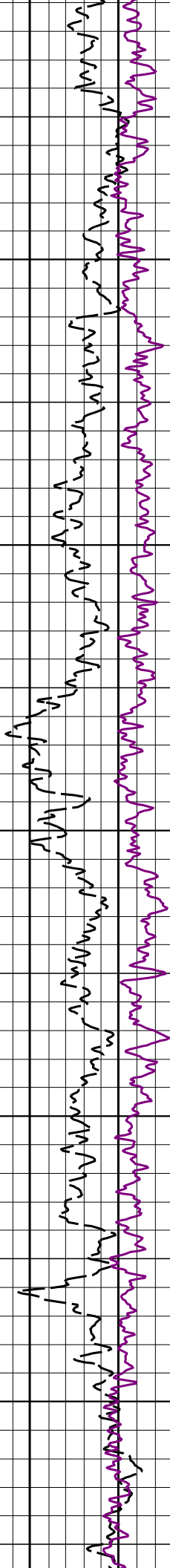
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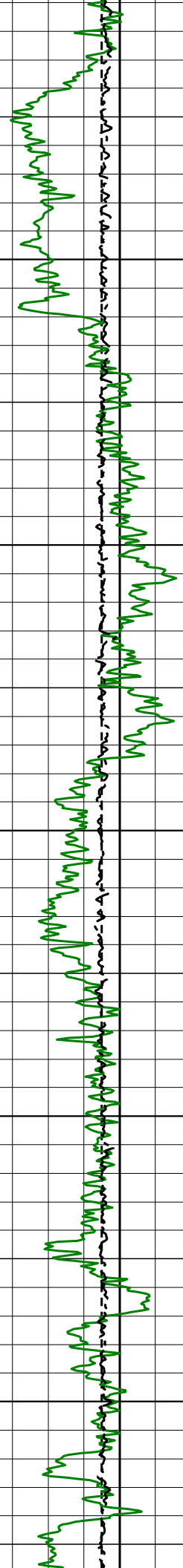
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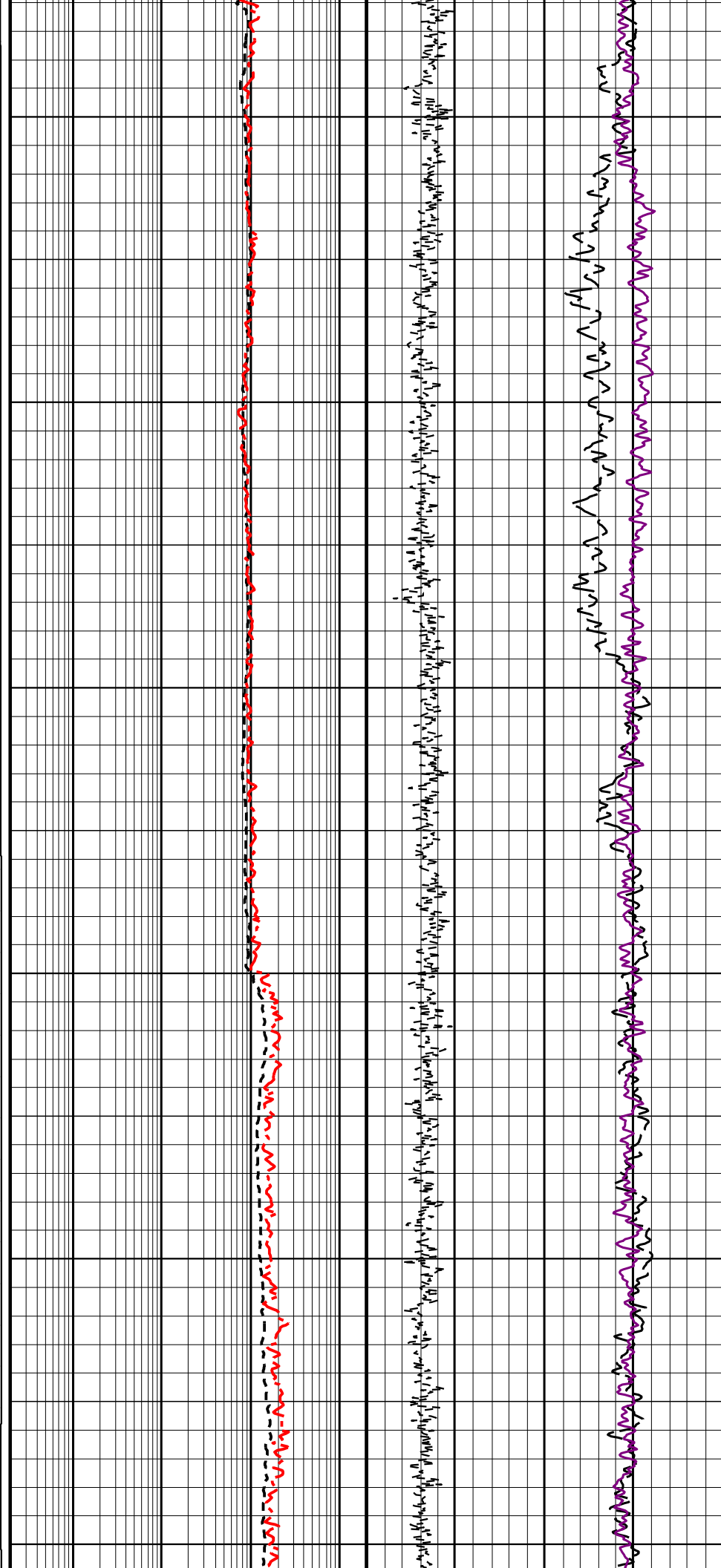
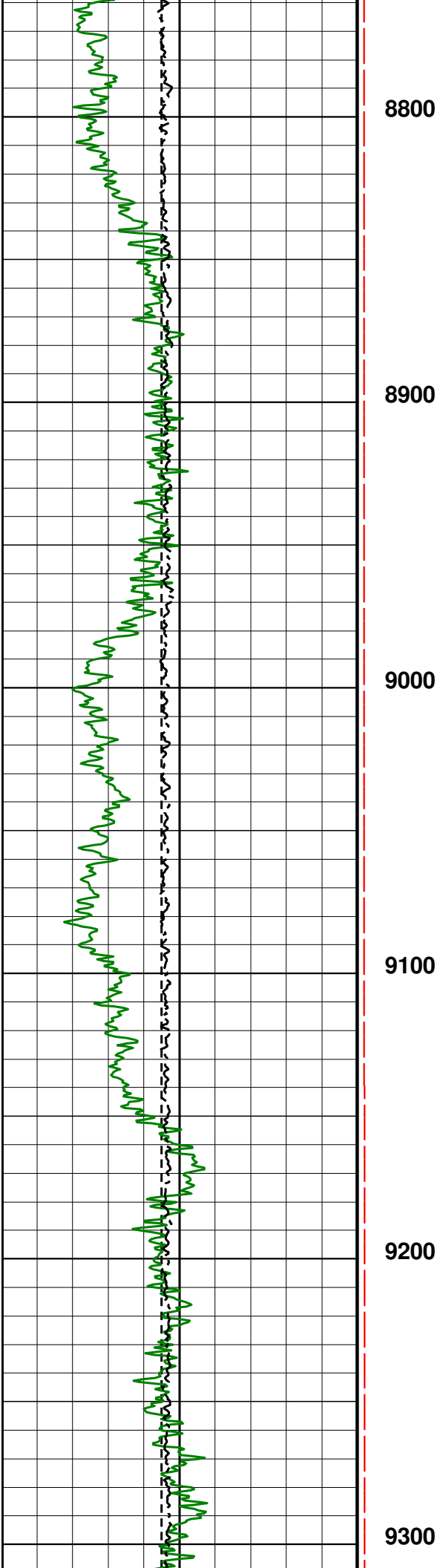
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Handwritten notes in purple ink, likely bleed-through from the reverse side of the page.

Handwritten notes in red ink, likely bleed-through from the reverse side of the page.

9400
9500
9600
9700
9800

Handwritten notes in green ink, likely bleed-through from the reverse side of the page.

Handwritten purple text on a grid background, appearing to be a list or series of entries.

Handwritten purple text on a grid background, appearing to be a list or series of entries.

Handwritten red text on a grid background, appearing to be a list or series of entries.

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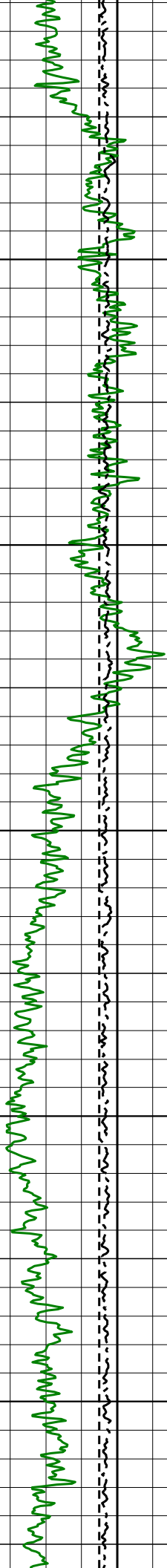
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			11500	



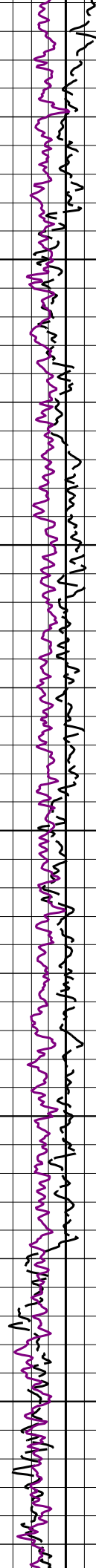
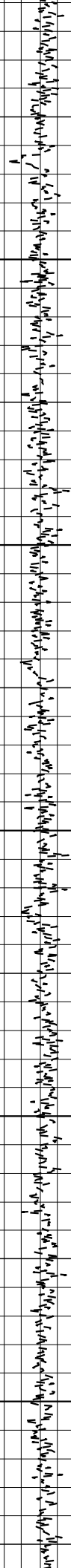
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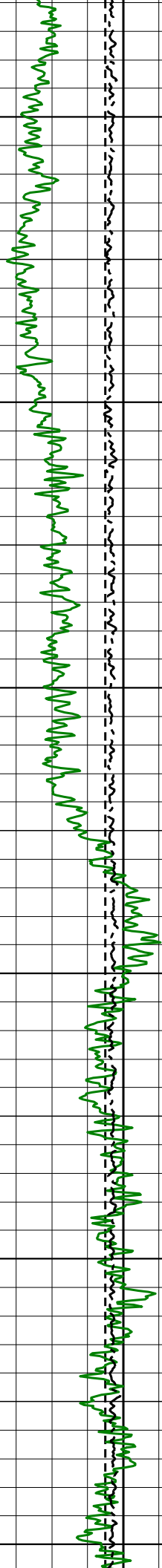
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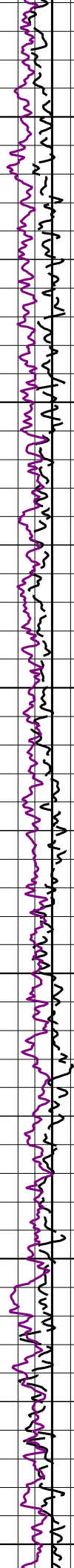
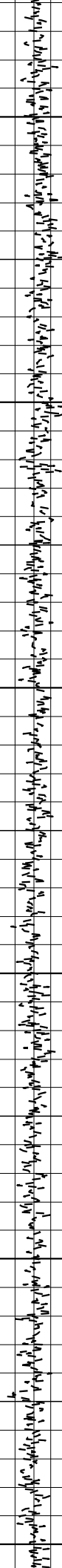
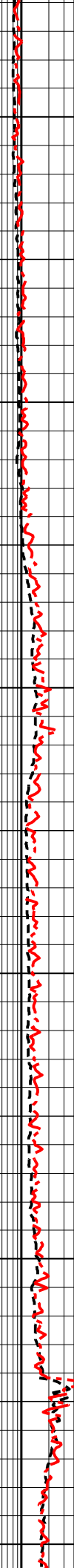
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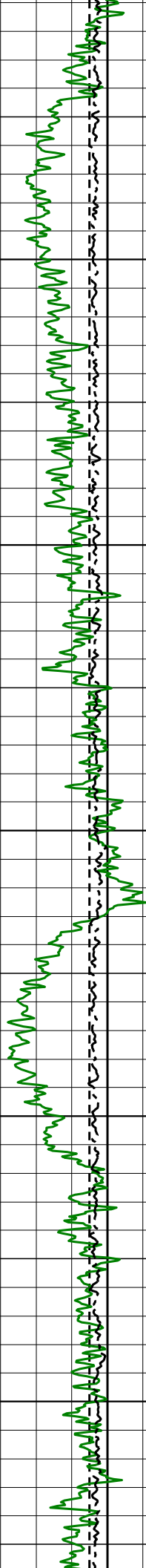
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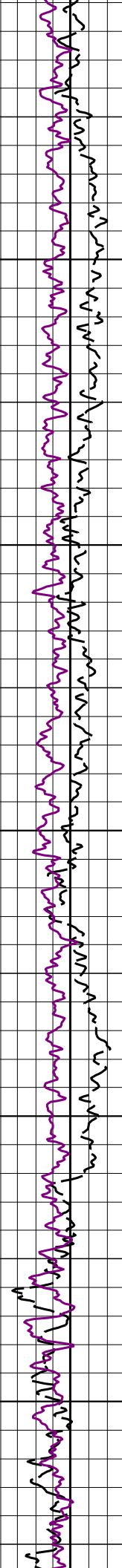
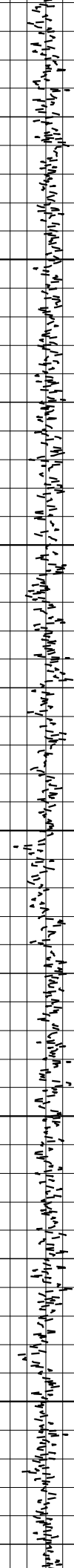
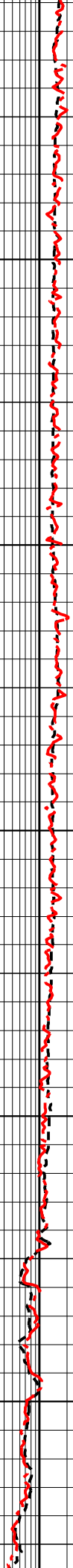
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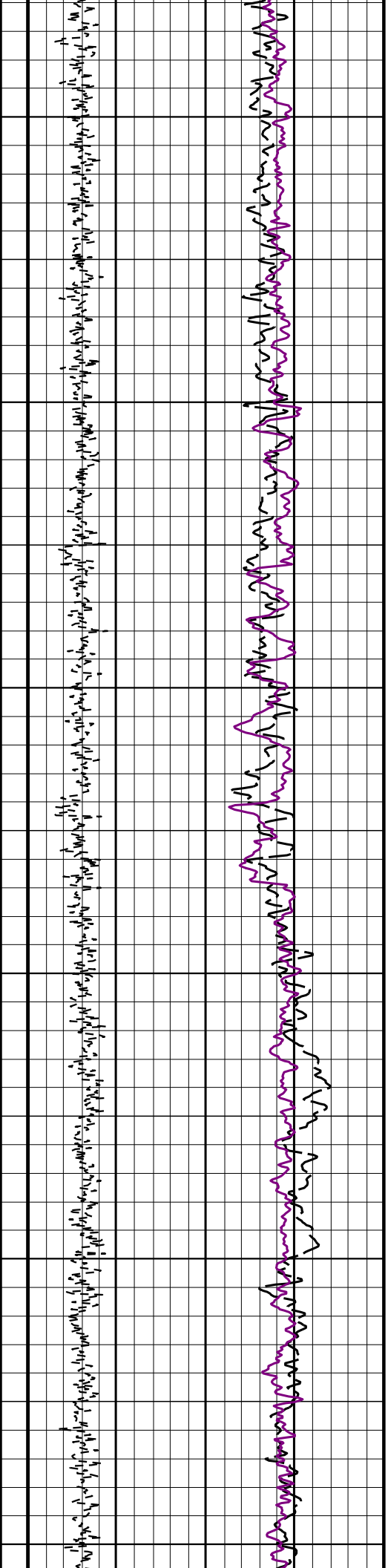
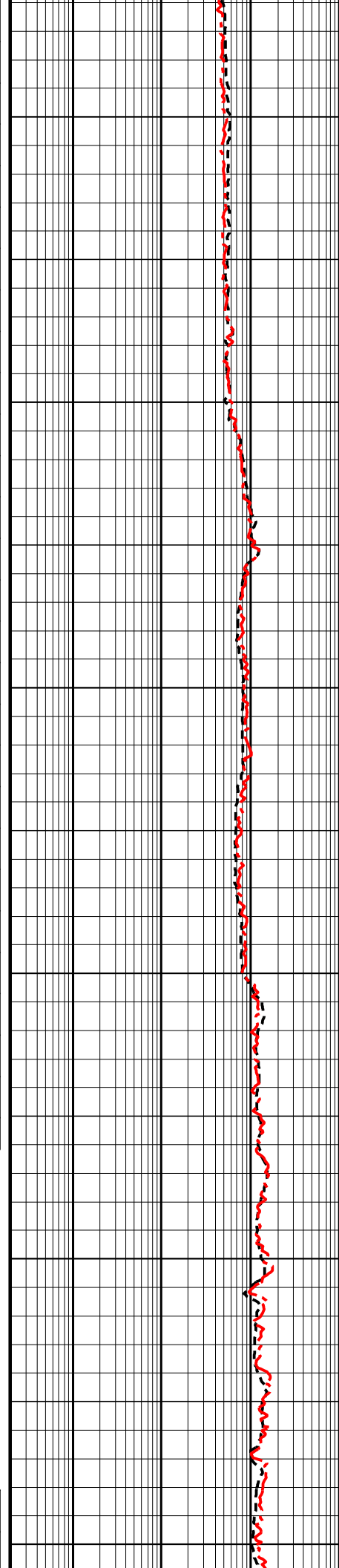
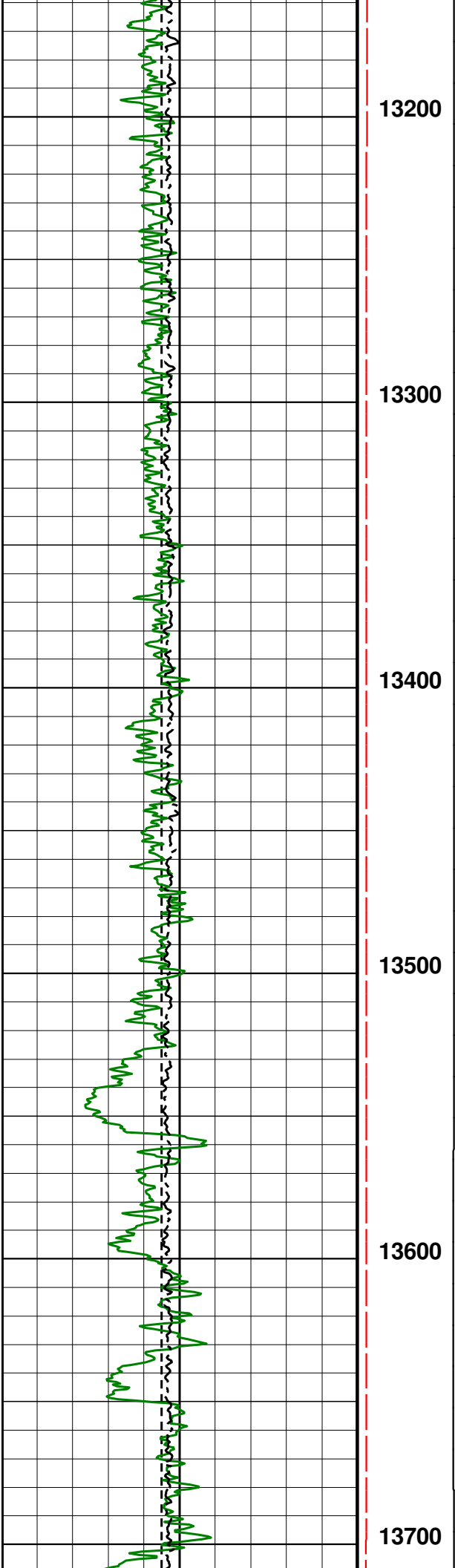
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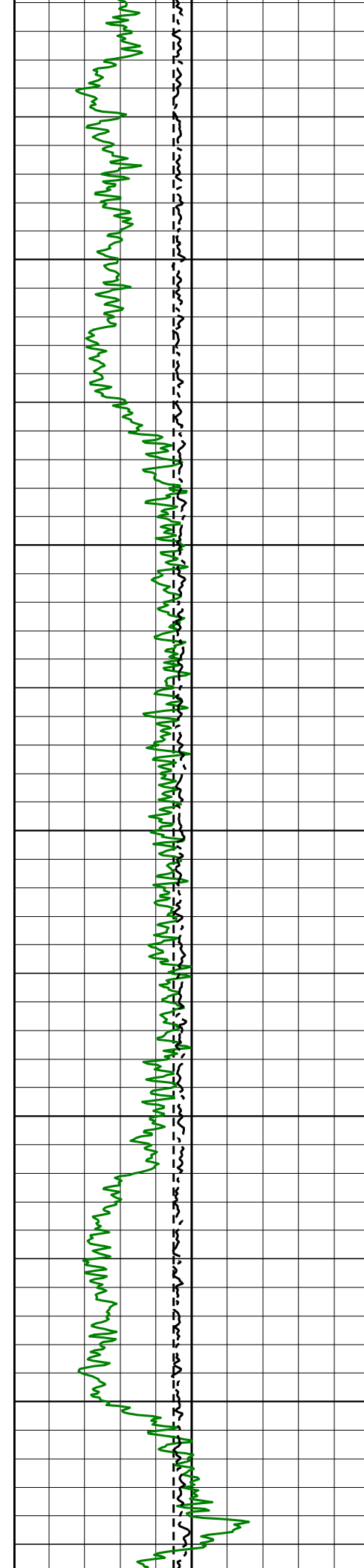
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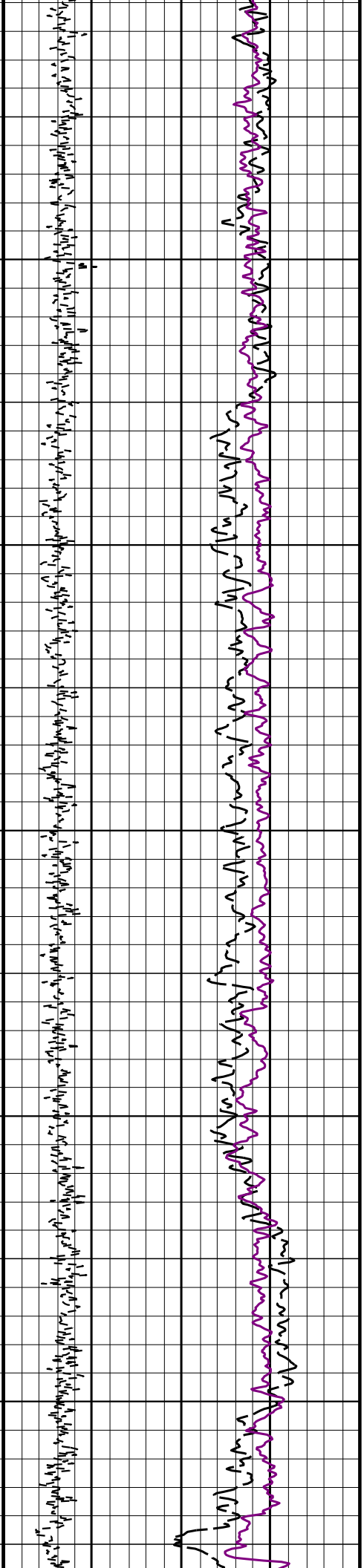
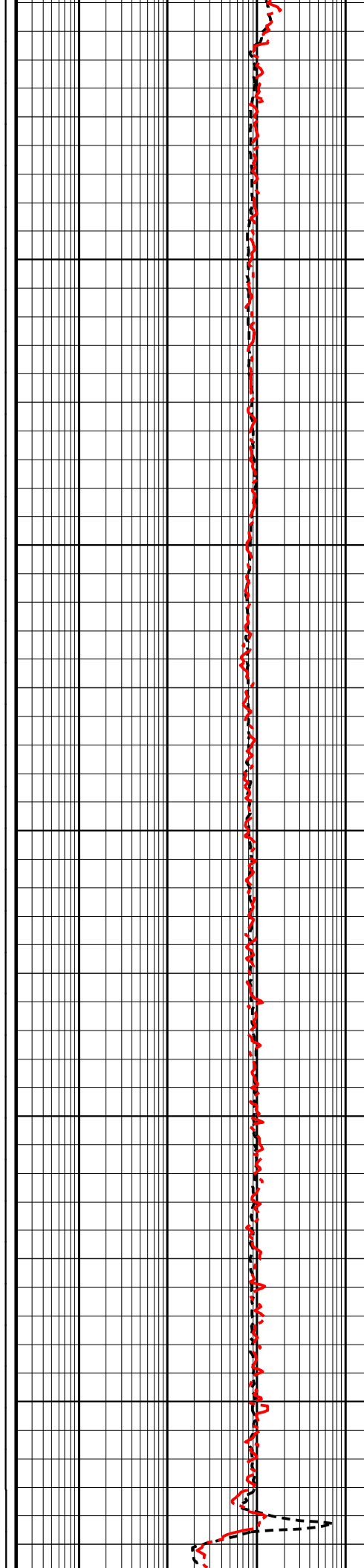
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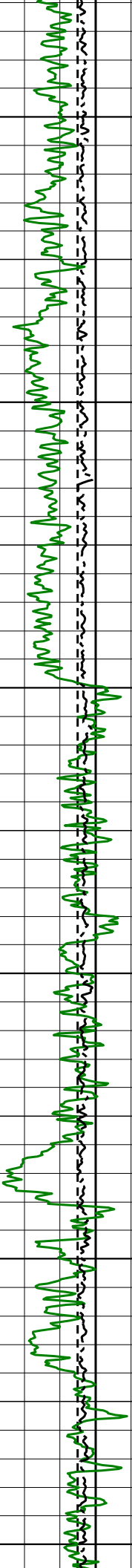
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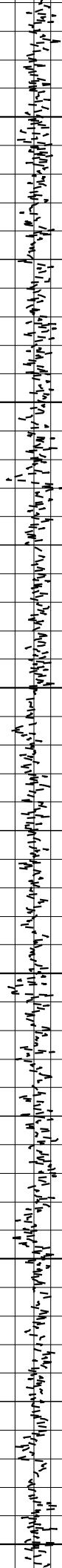
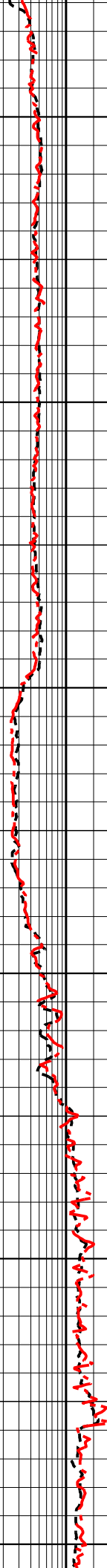
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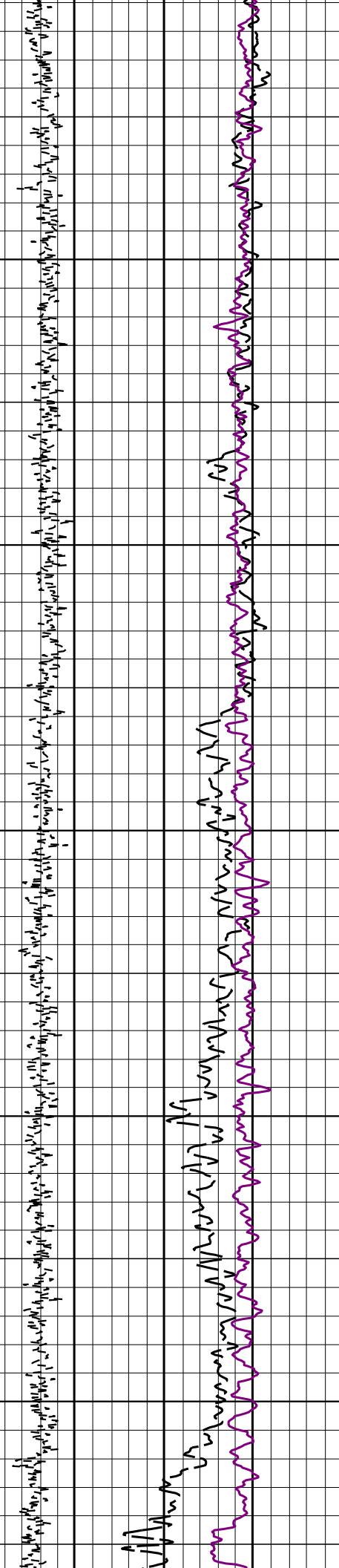
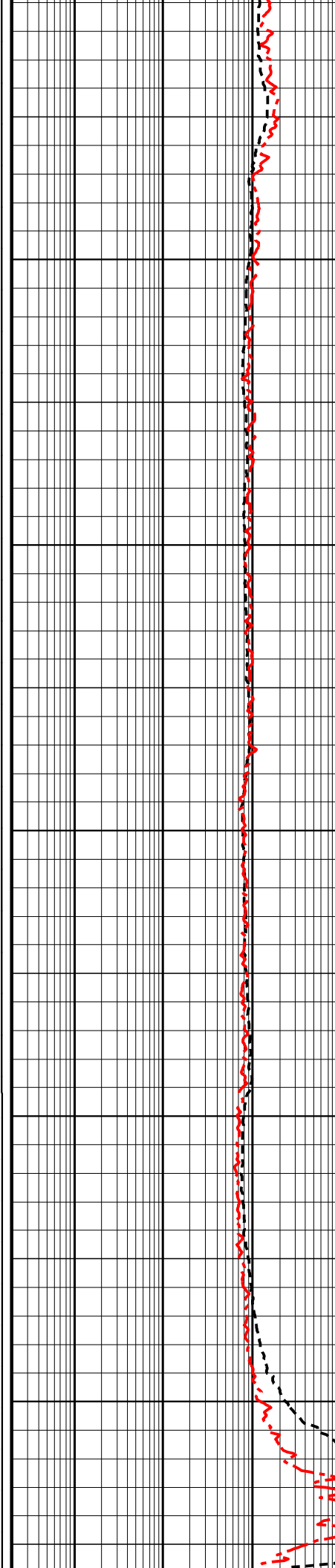
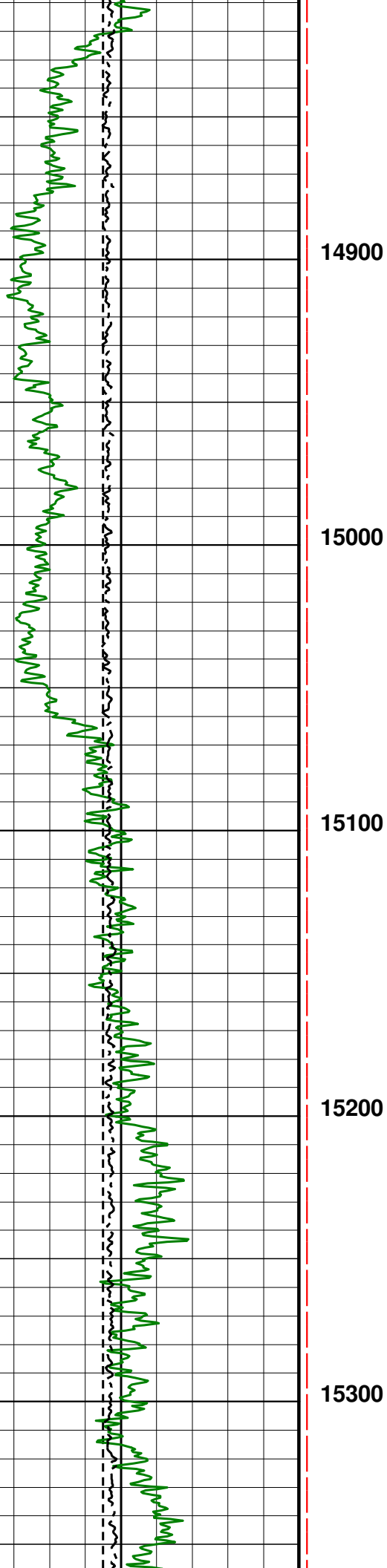
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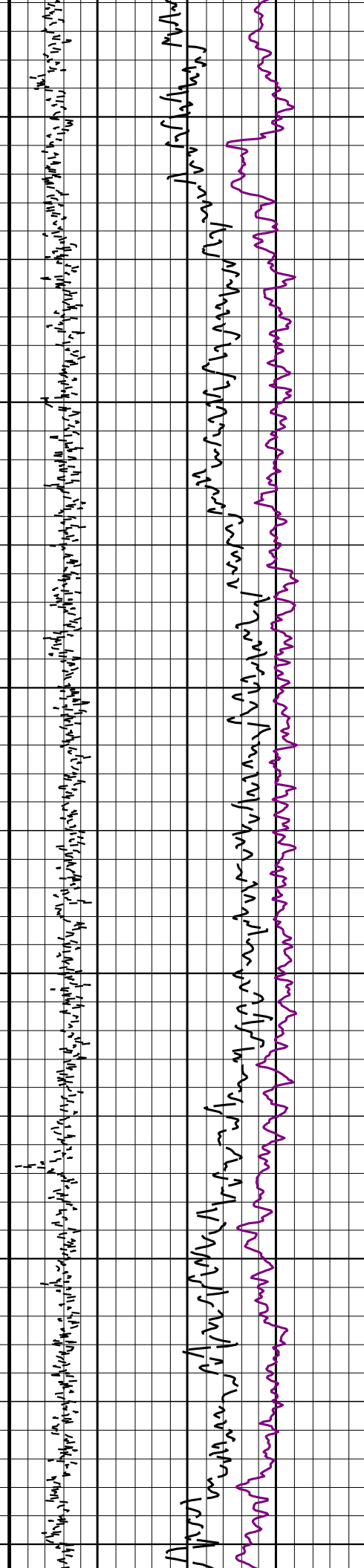
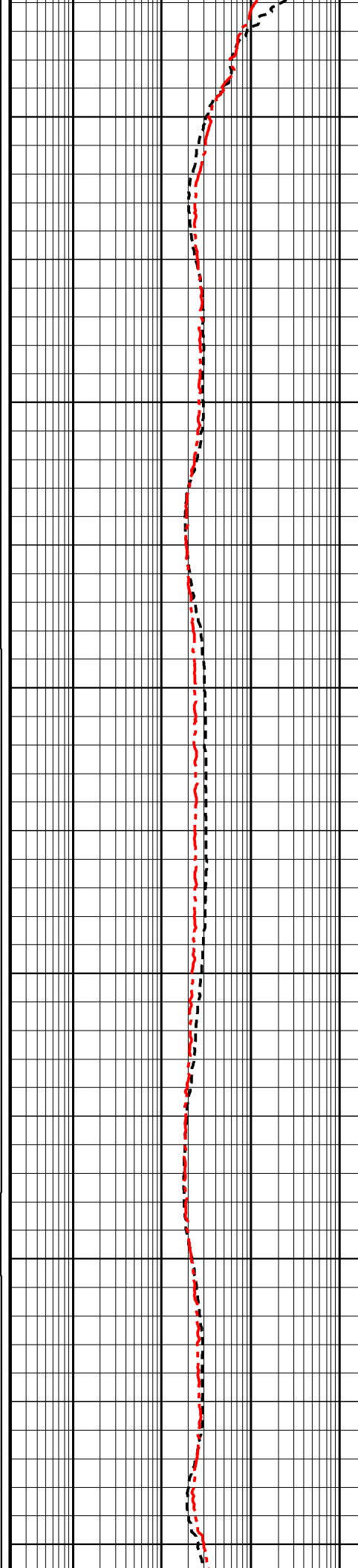
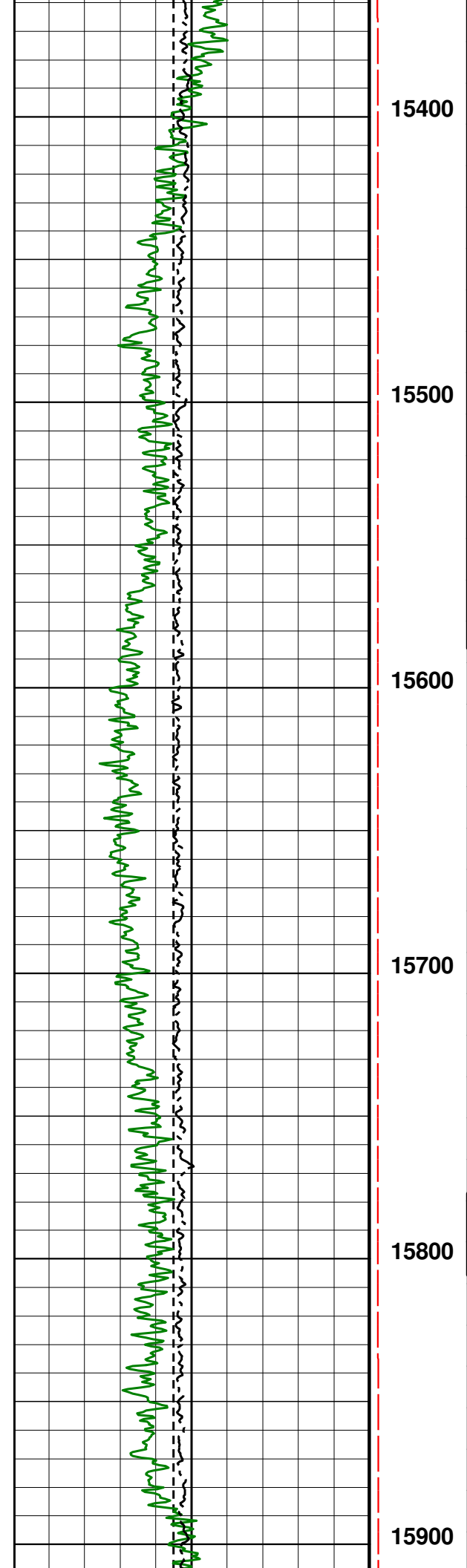
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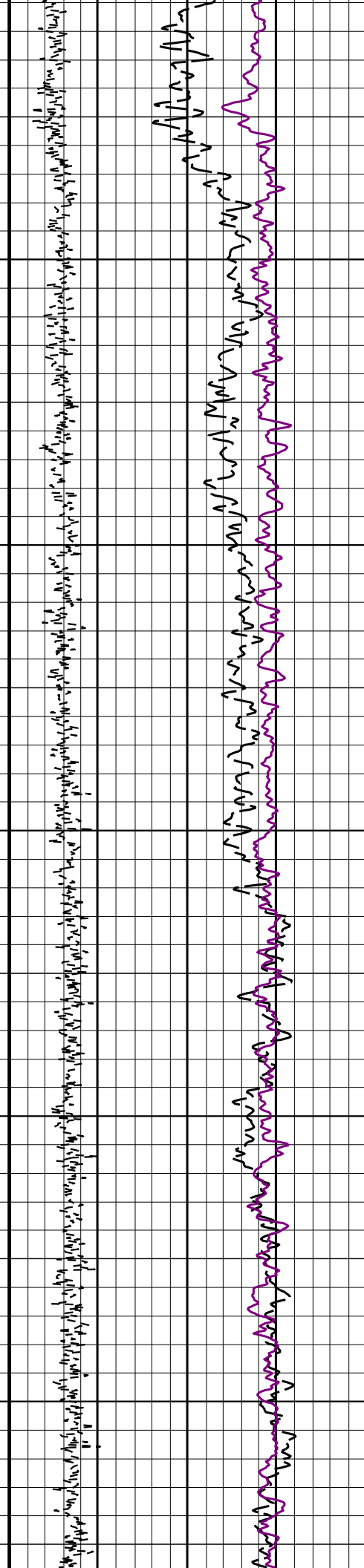
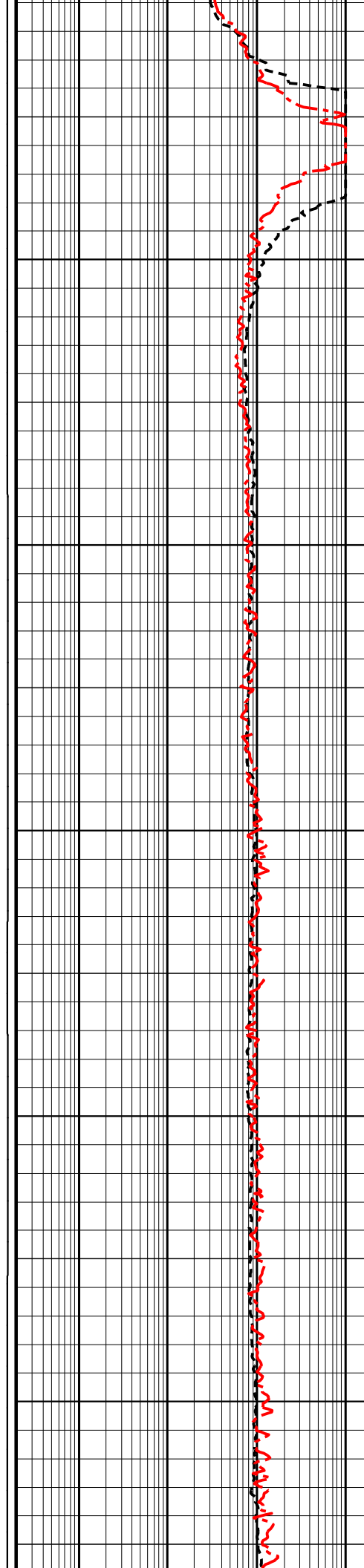
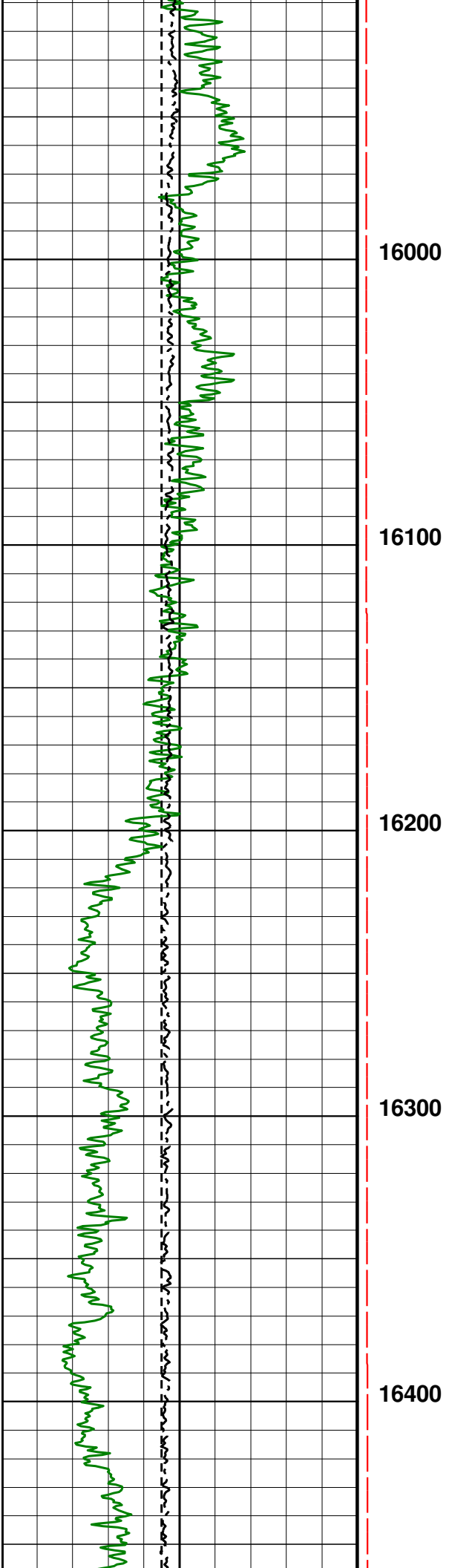
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14800









[illegible]

Handwritten notes in purple ink, likely bleed-through from the reverse side of the page.

Handwritten notes in purple ink, likely bleed-through from the reverse side of the page.

Handwritten notes in red ink, likely bleed-through from the reverse side of the page.

17100

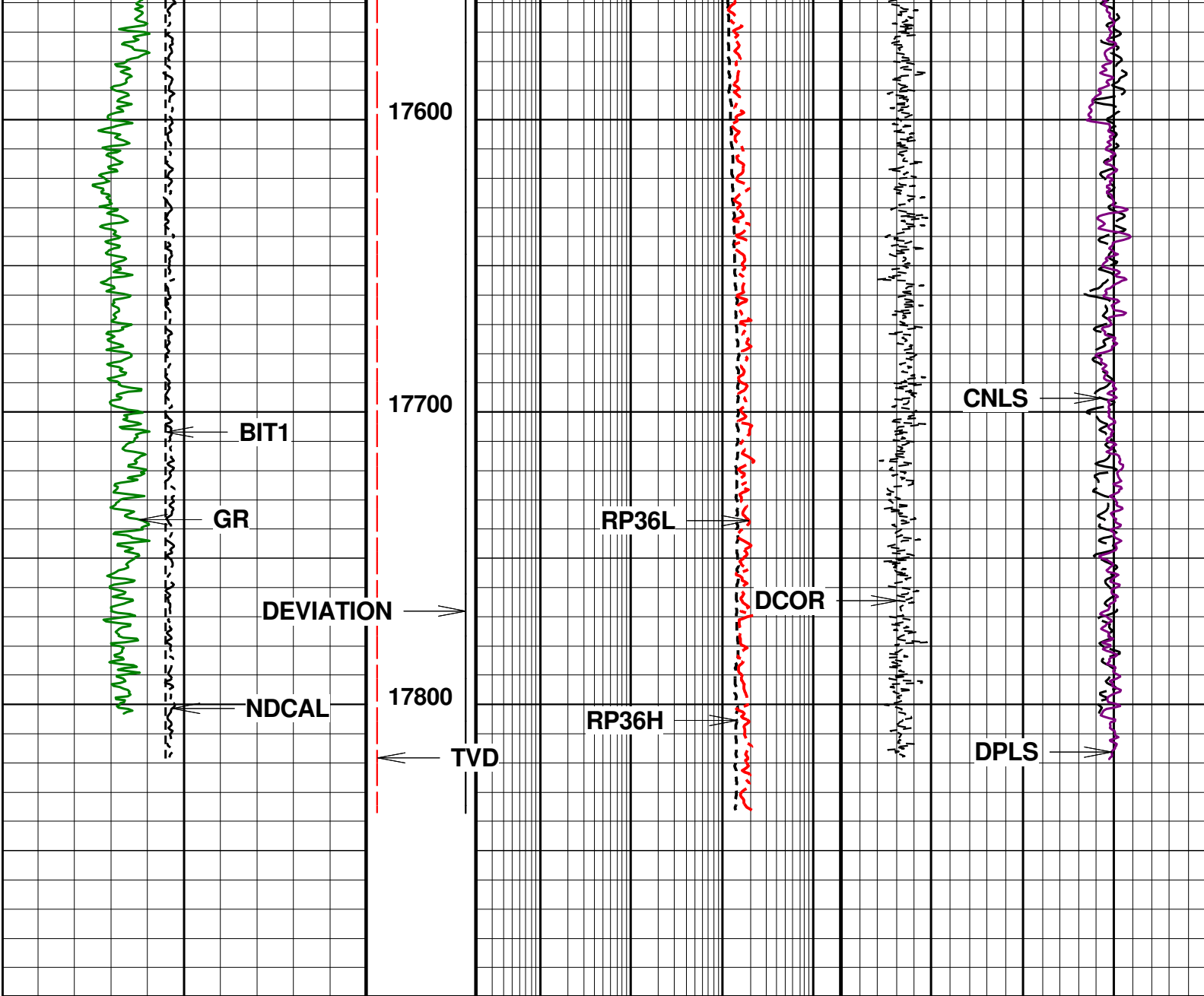
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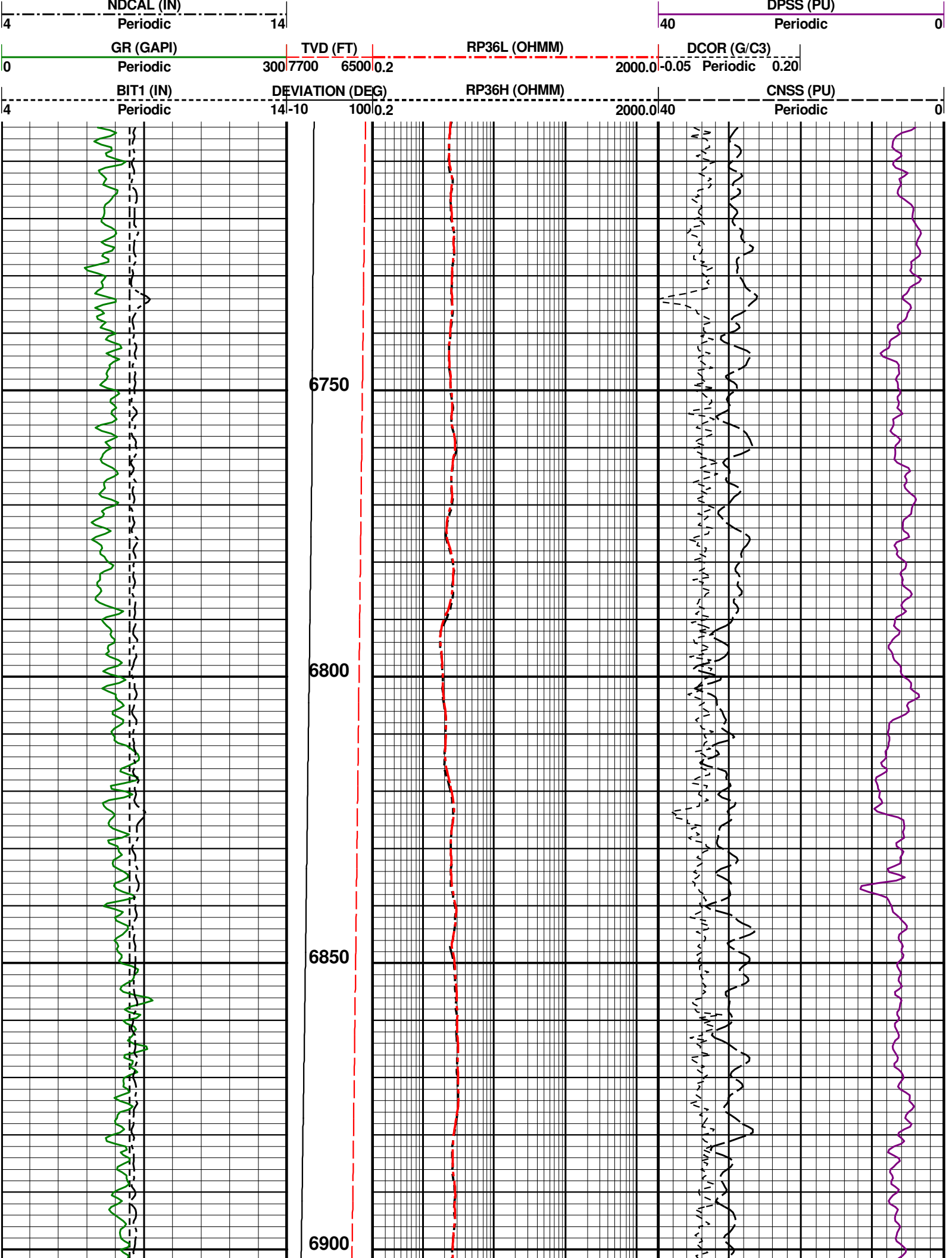
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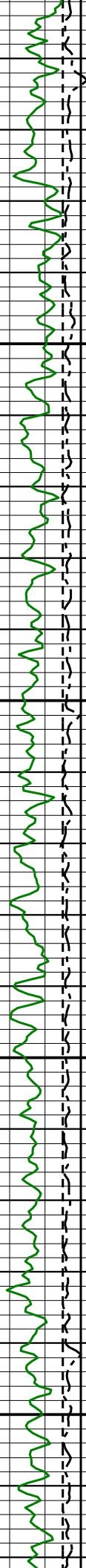


4	BIT1 (IN)	DEVIATION (DEG)	RP36H (OHMM)	CNLS (NONE)	0
	Periodic	14-10 1000.2	2000.0 40	Periodic	
0	GR (GAPI)	TVD (FT)	RP36L (OHMM)	DCOR (G/C3)	
	Periodic	300 7700 6500 0.2	2000.0 -0.05	Periodic 0.20	
4	NDCAL (IN)			DPLS (PU)	0
	Periodic	14		40 Periodic	

5" MAIN PASS SANDSTONE

Company	: GREAT WESTERN OPERATING COMPANY	Date	: 08-FEB-2019
Well	: SCHAEFER LD 13-033HN	Time	:
Scale	: 1 : 240	Remarks	: SANDSTONE MATRIX
Depth in	: Feet		
Software	: WinAPlot Ver. 5, 87, 2, 0	File Name	: 812_05-001-10253_MAIN MD



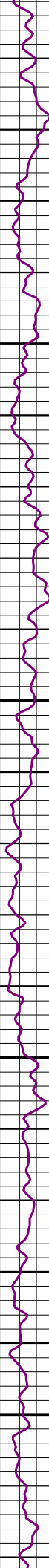
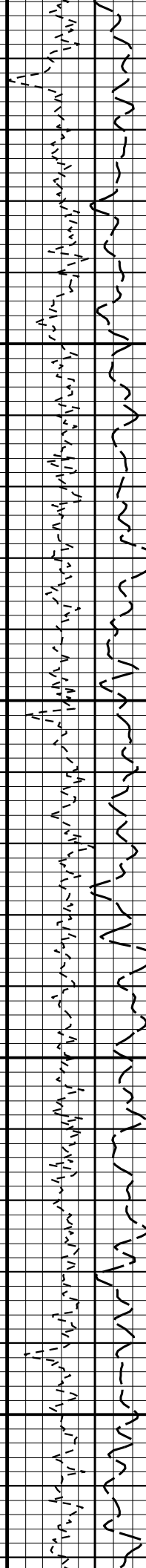


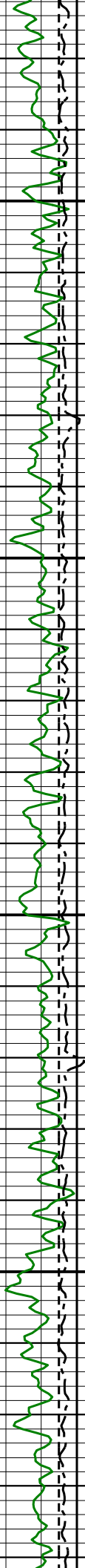
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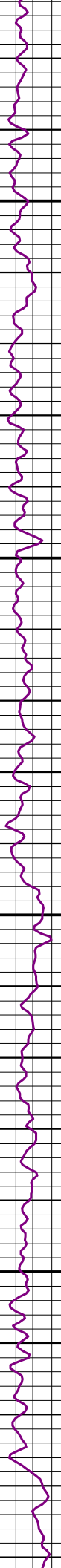
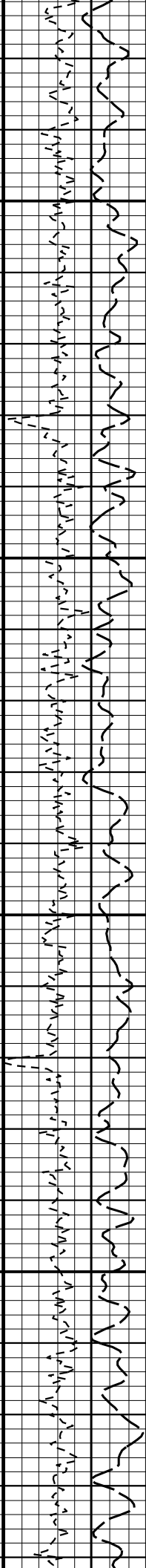
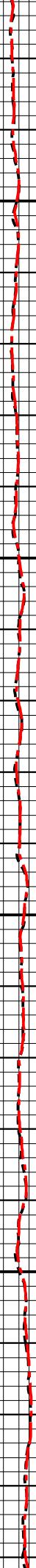


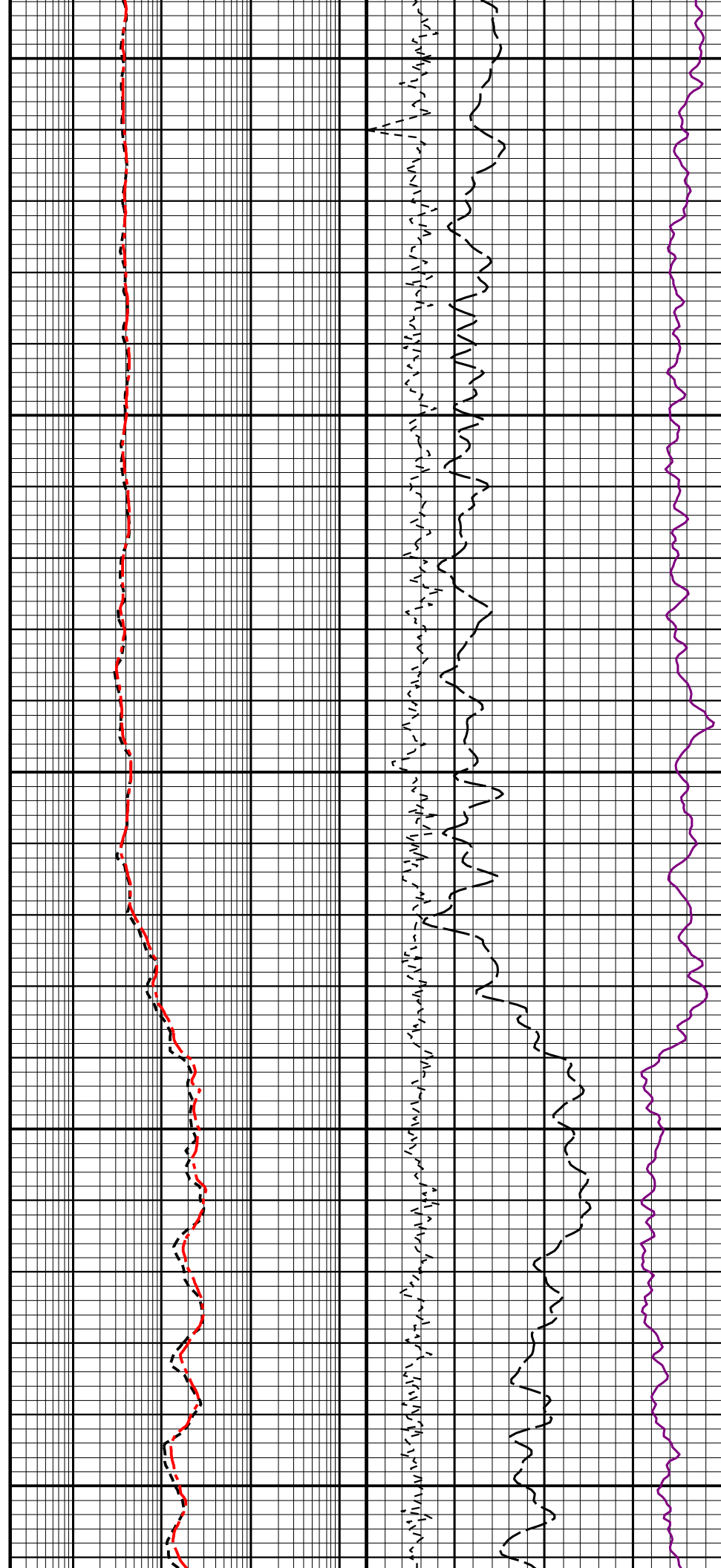
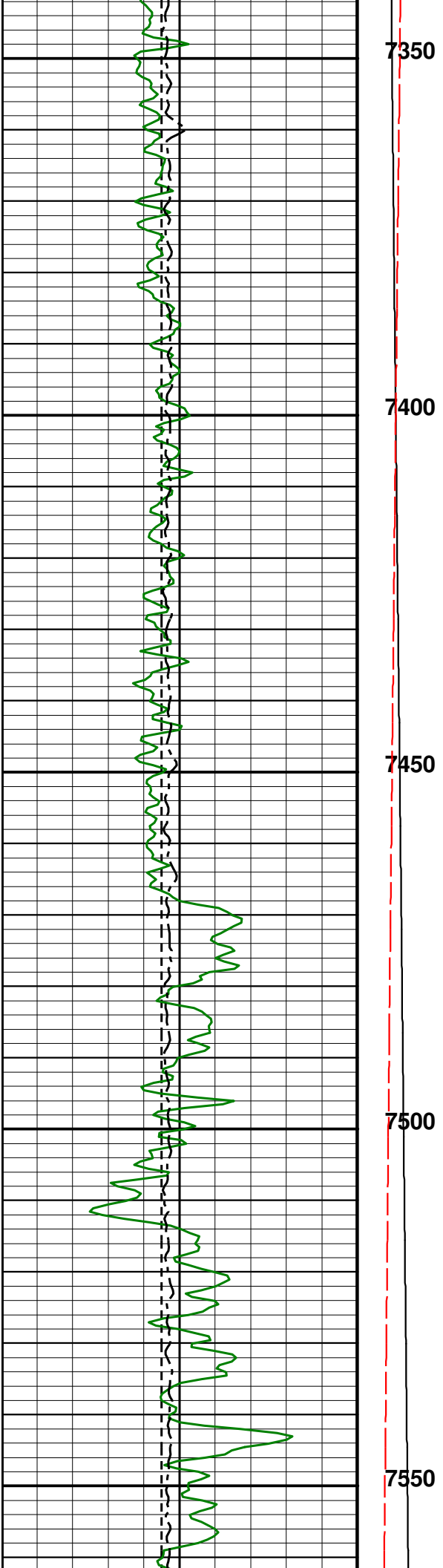
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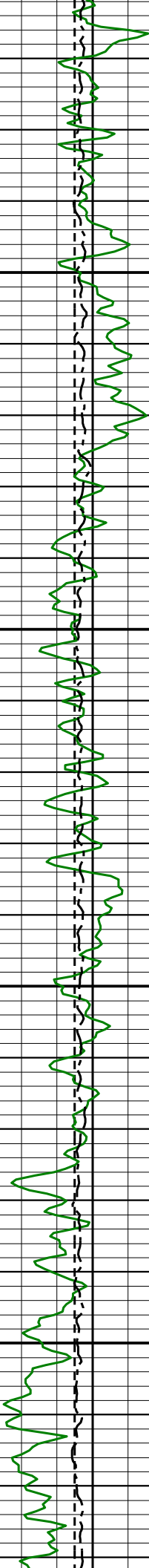
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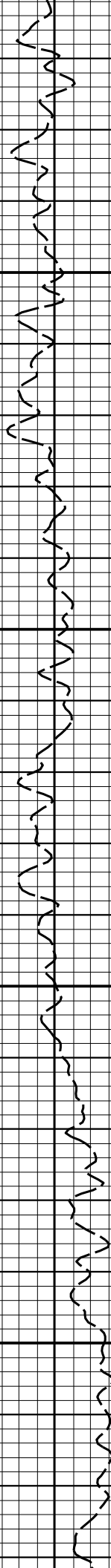
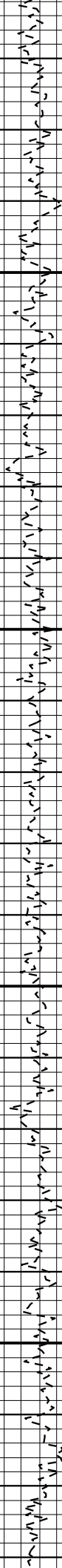
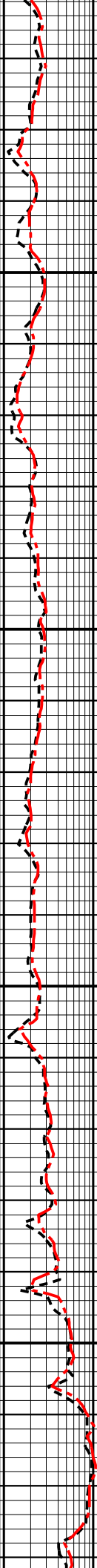


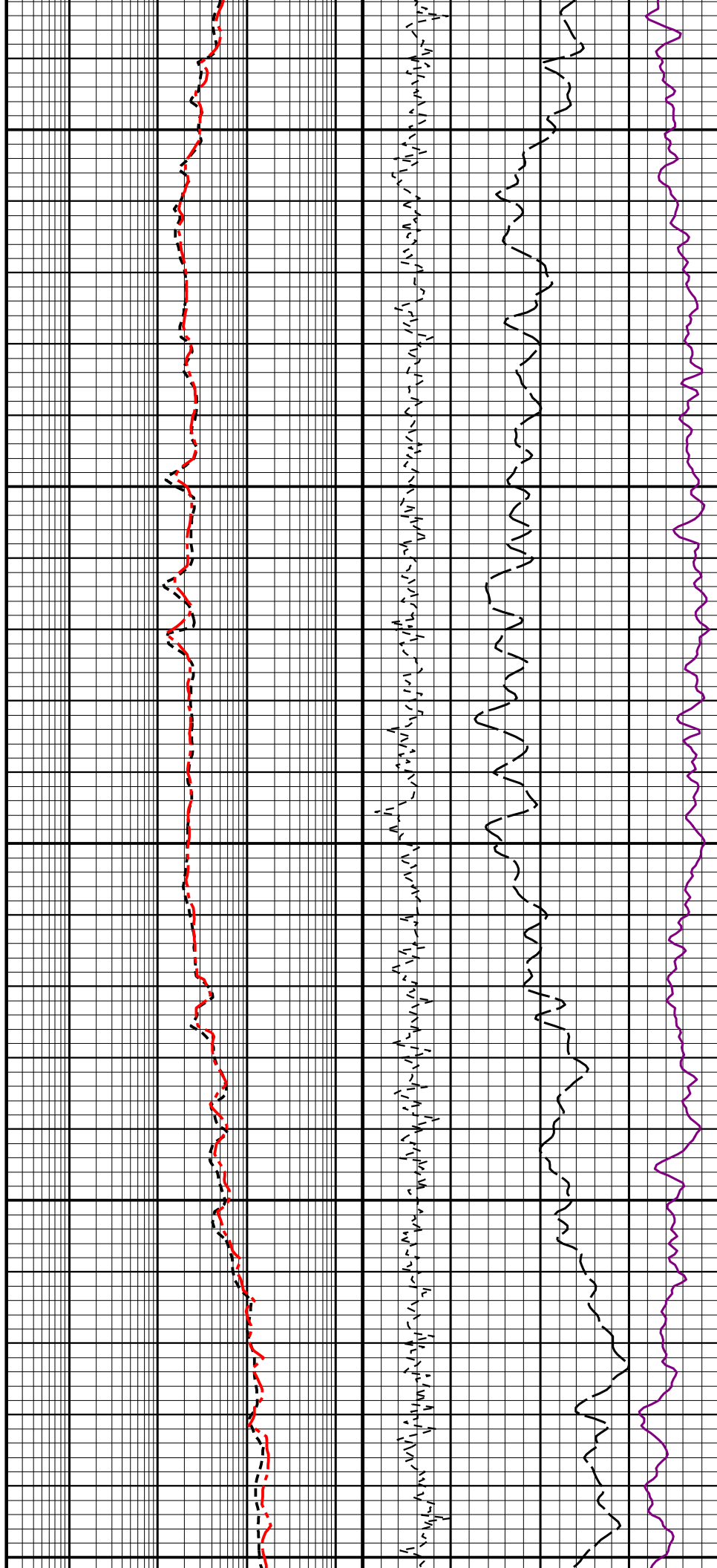
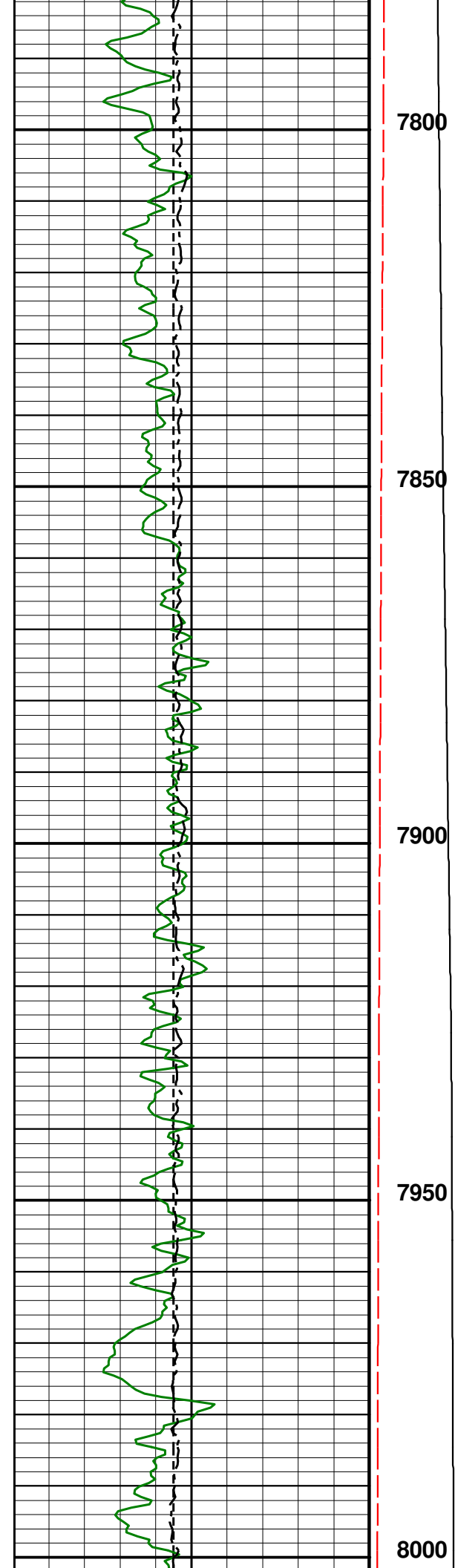
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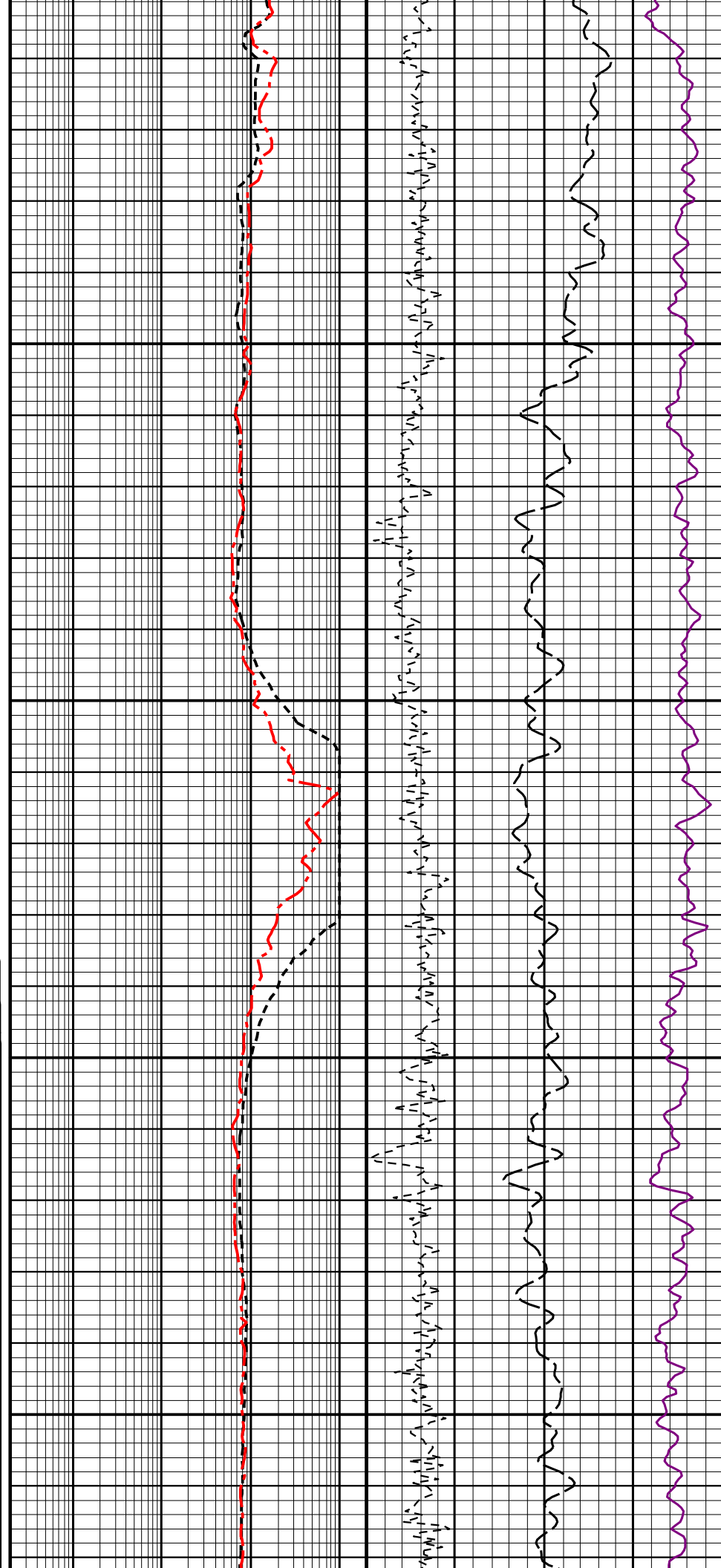
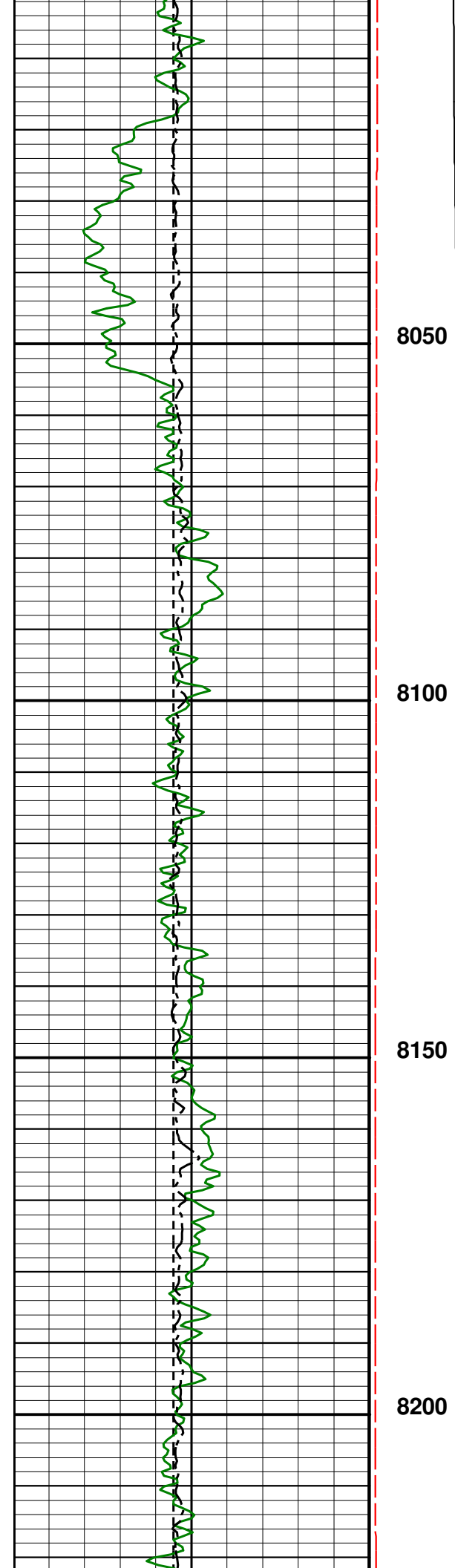
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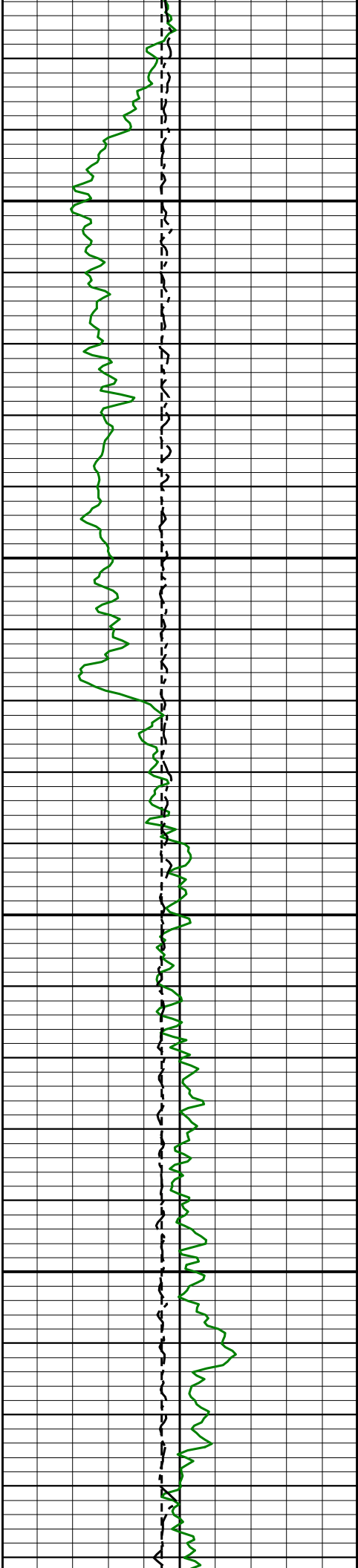
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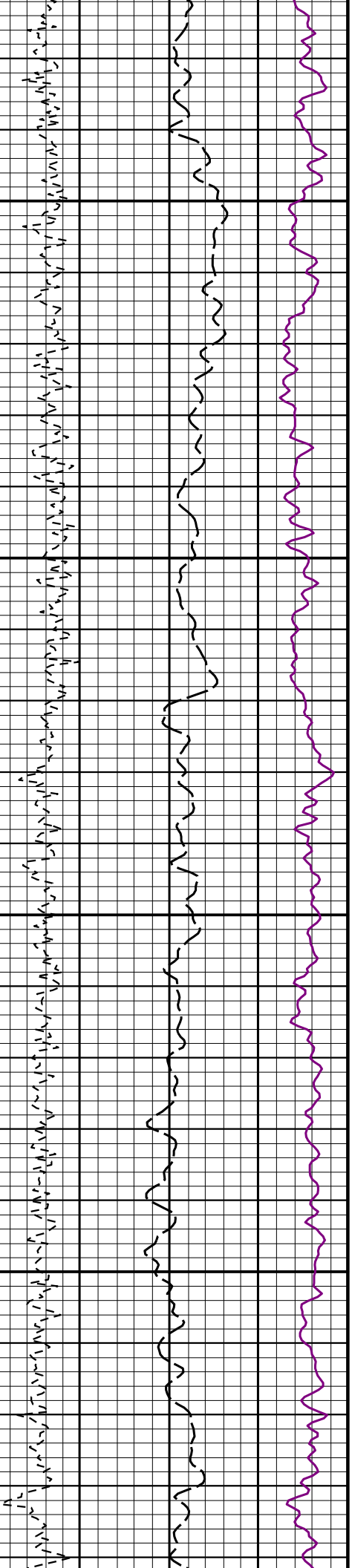
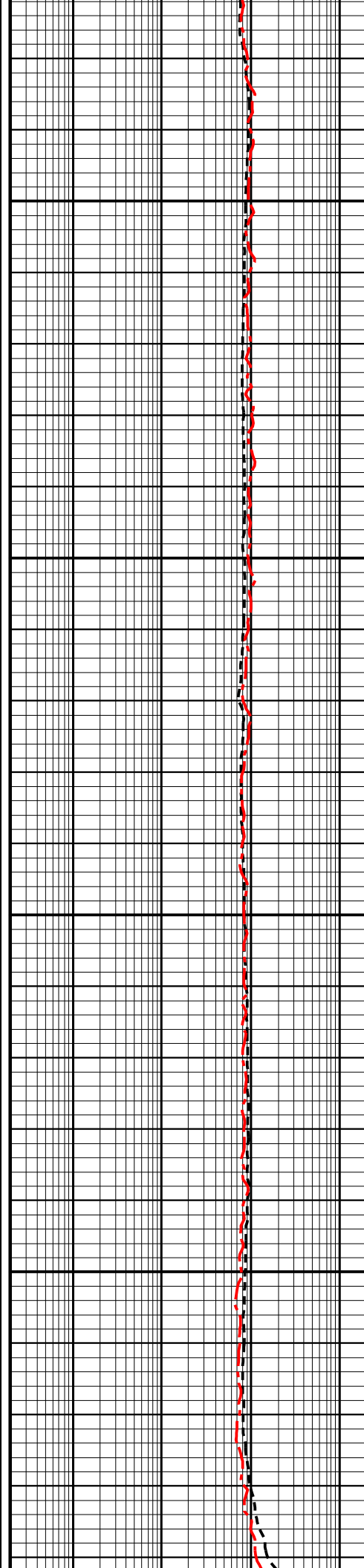


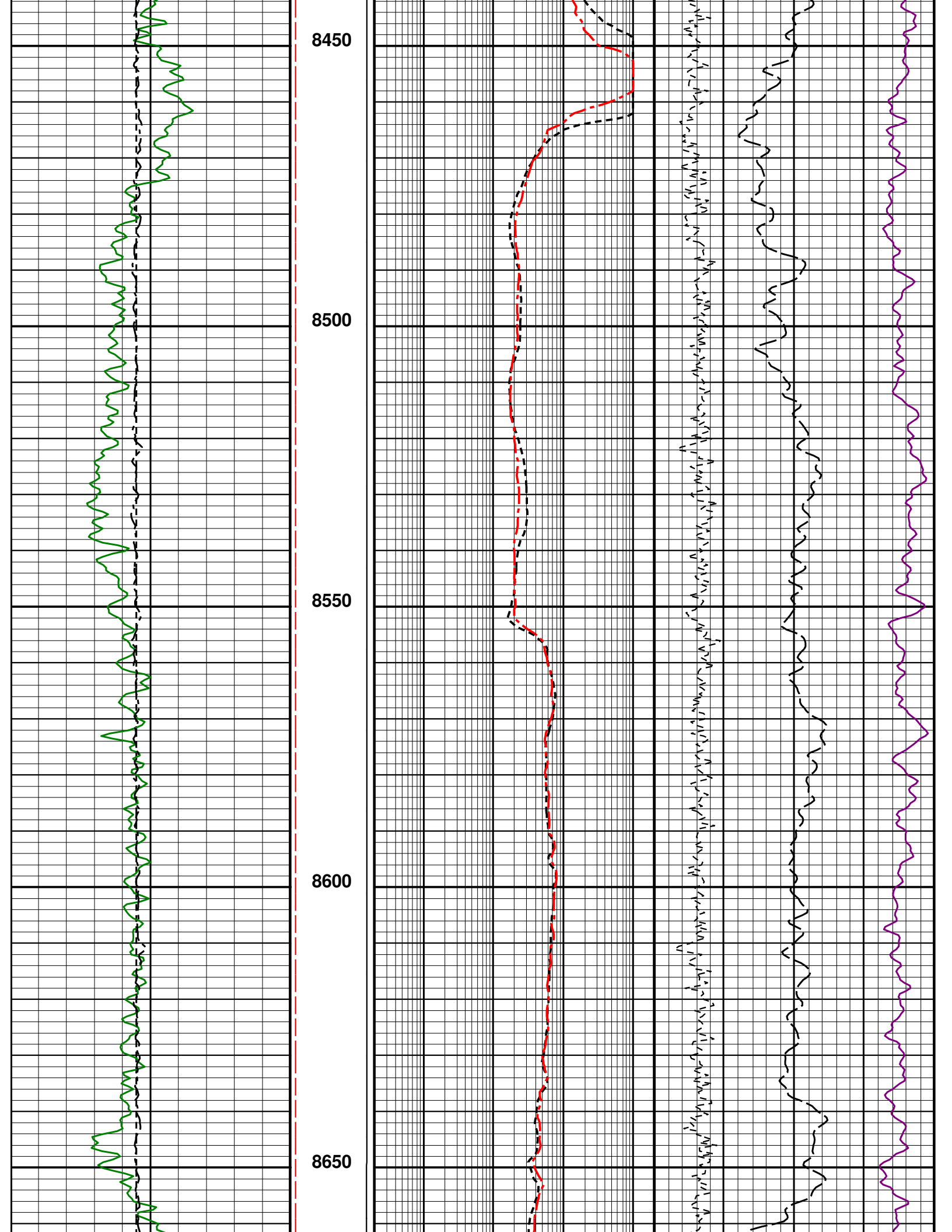
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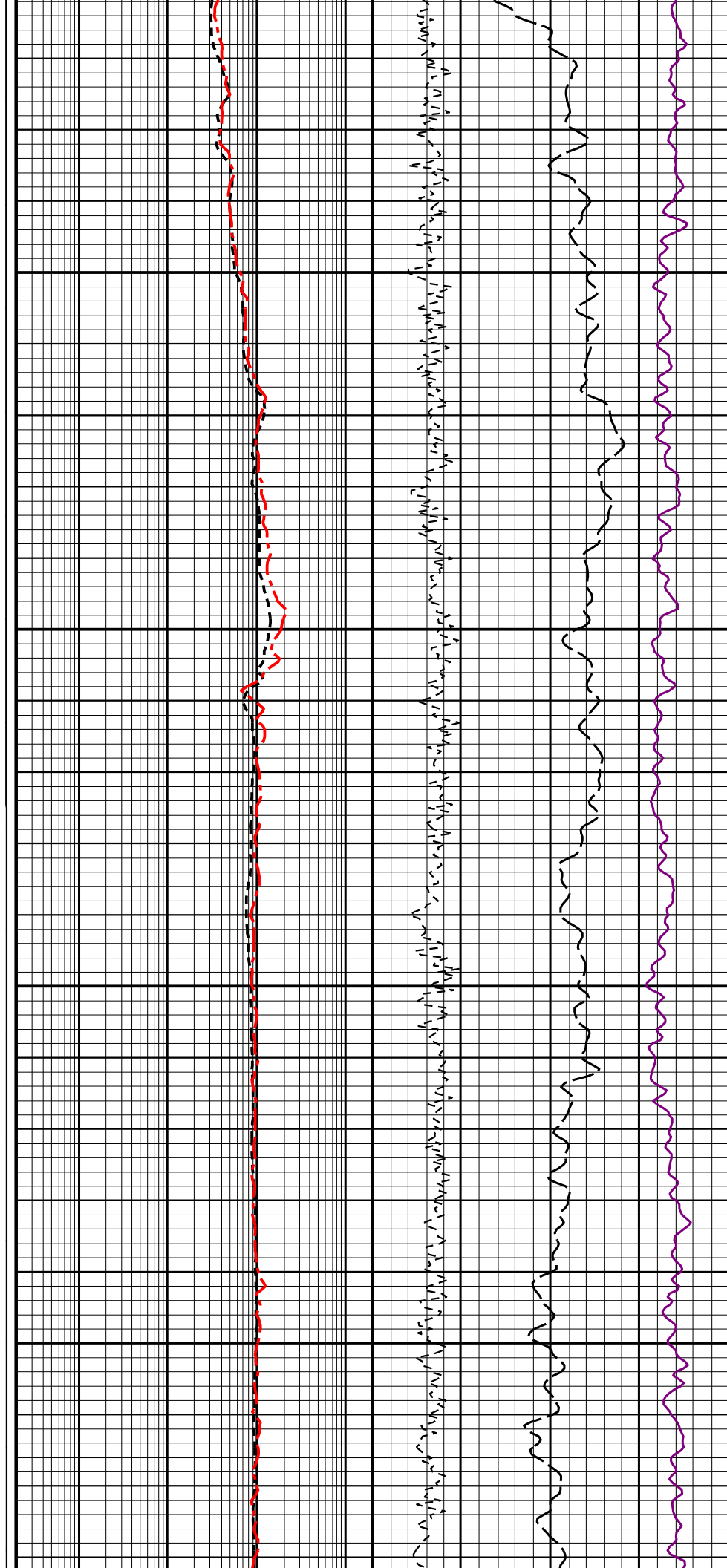
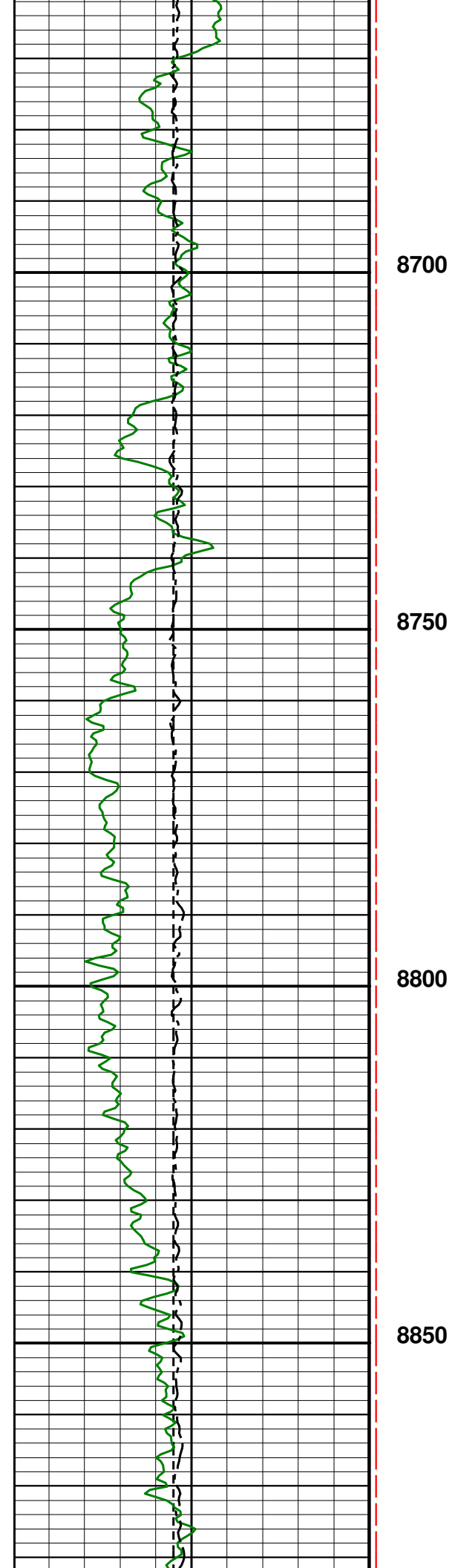
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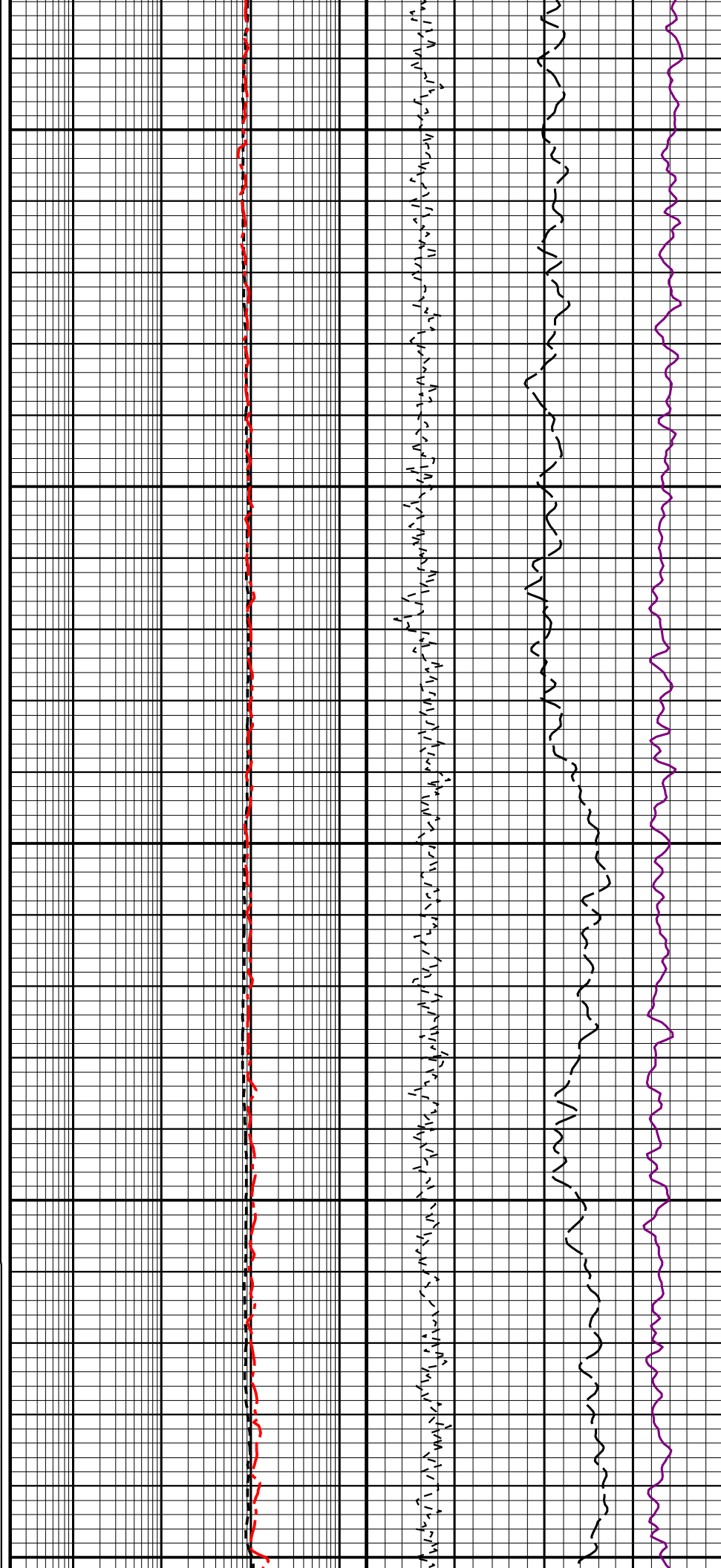
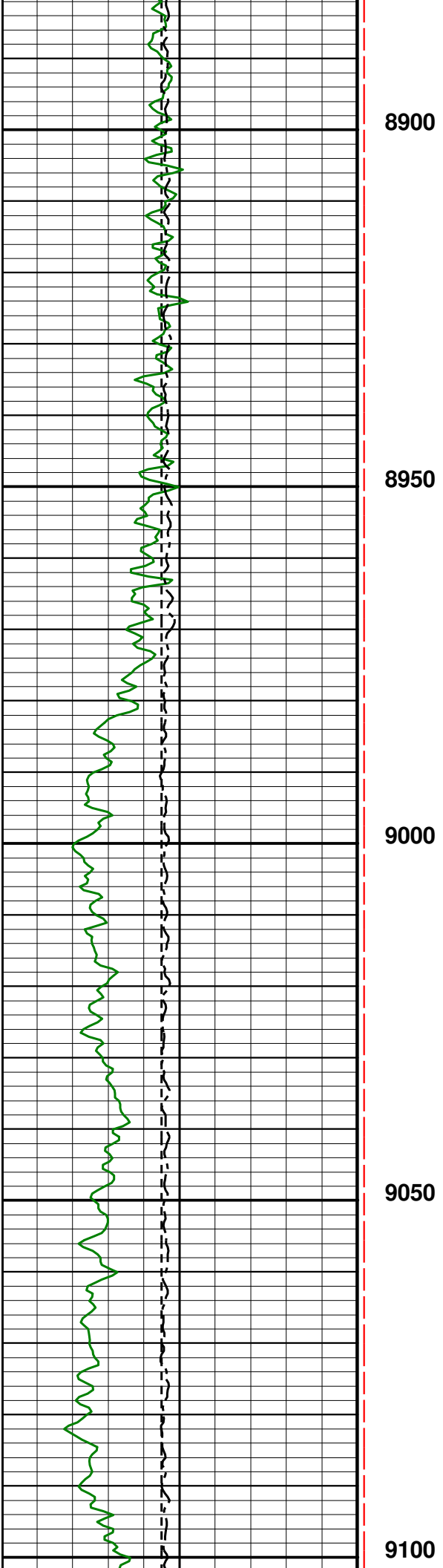
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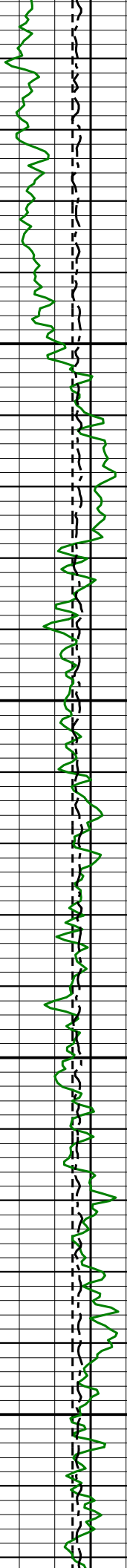
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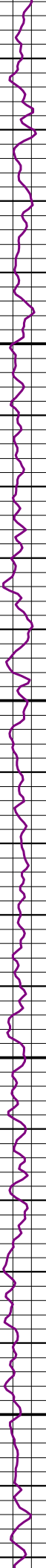
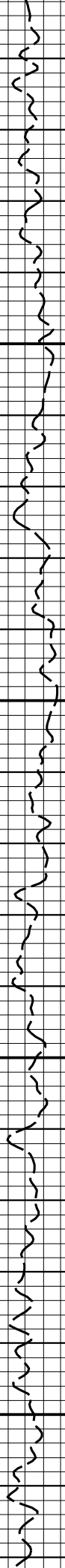
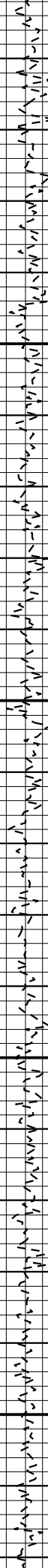


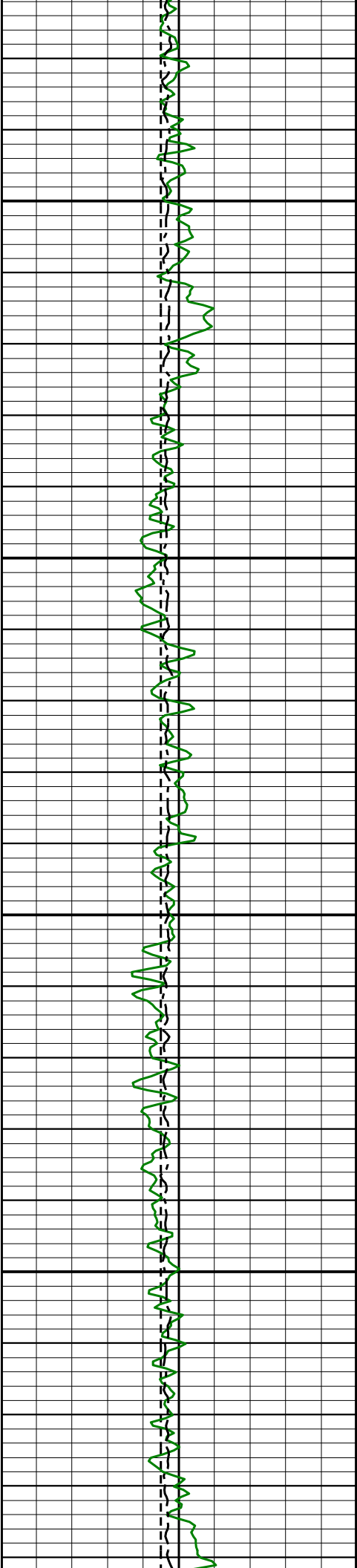
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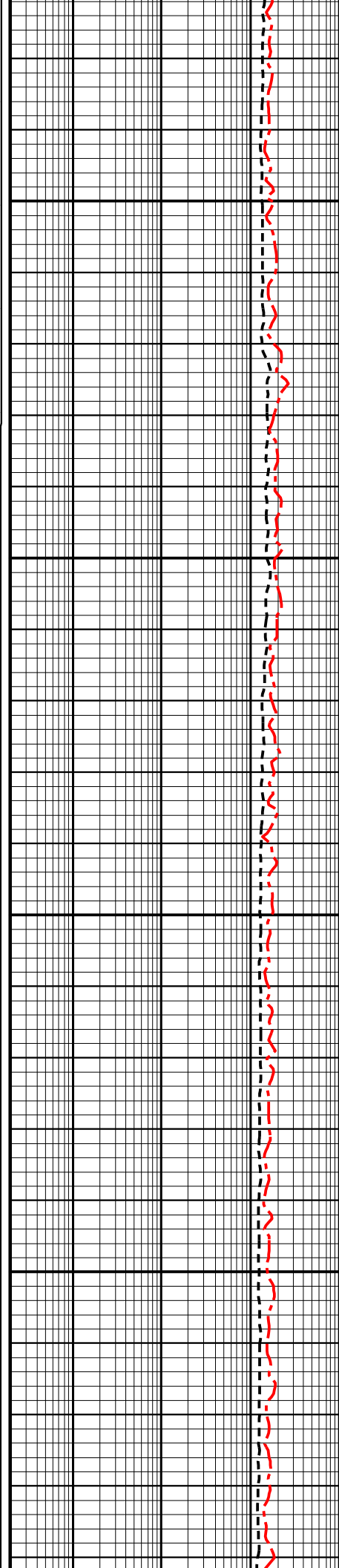


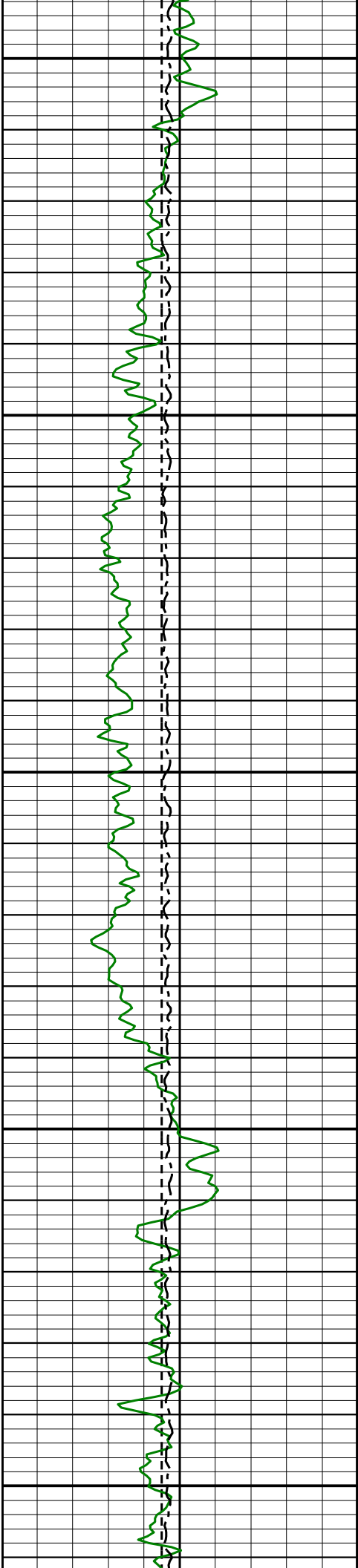
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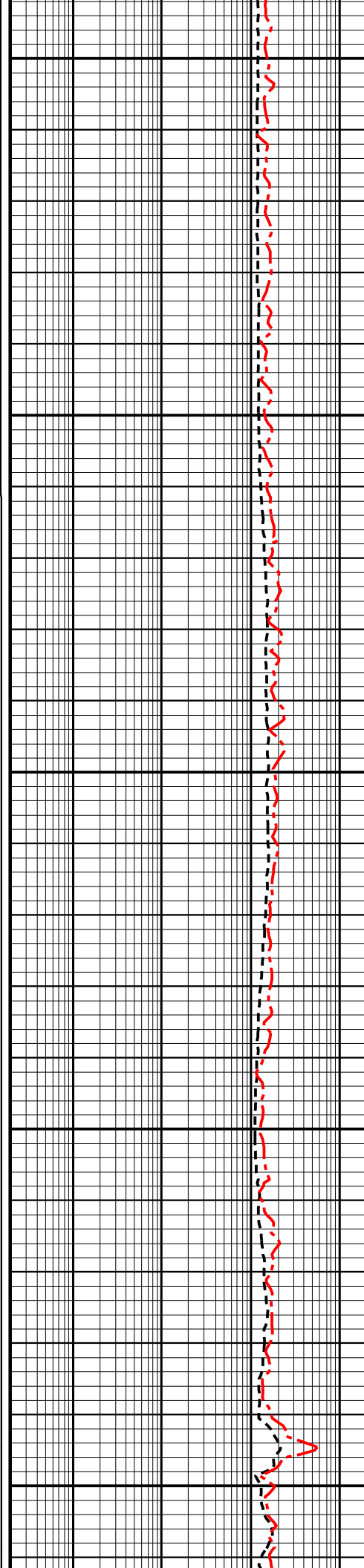
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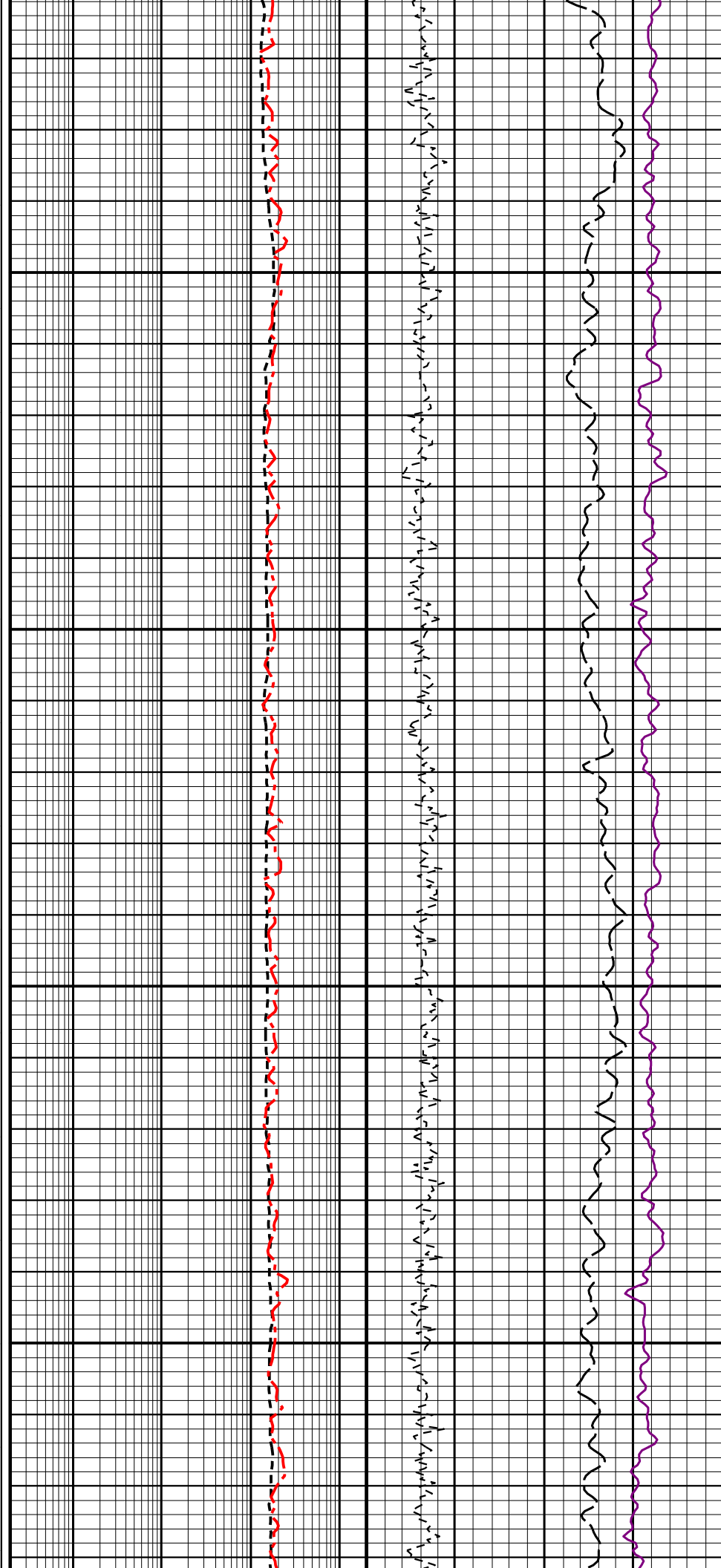
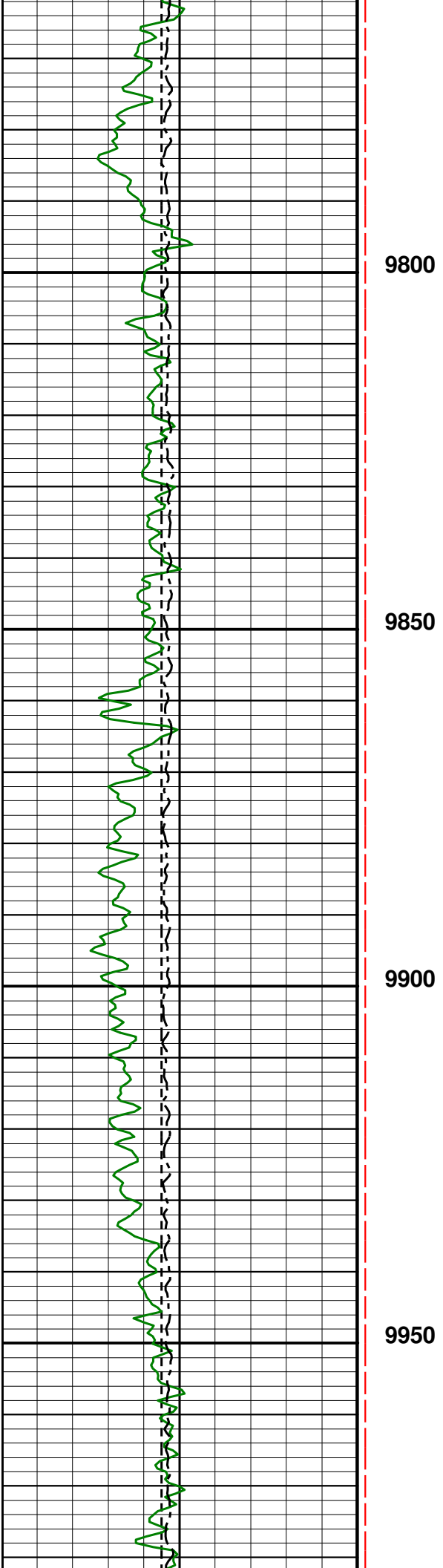
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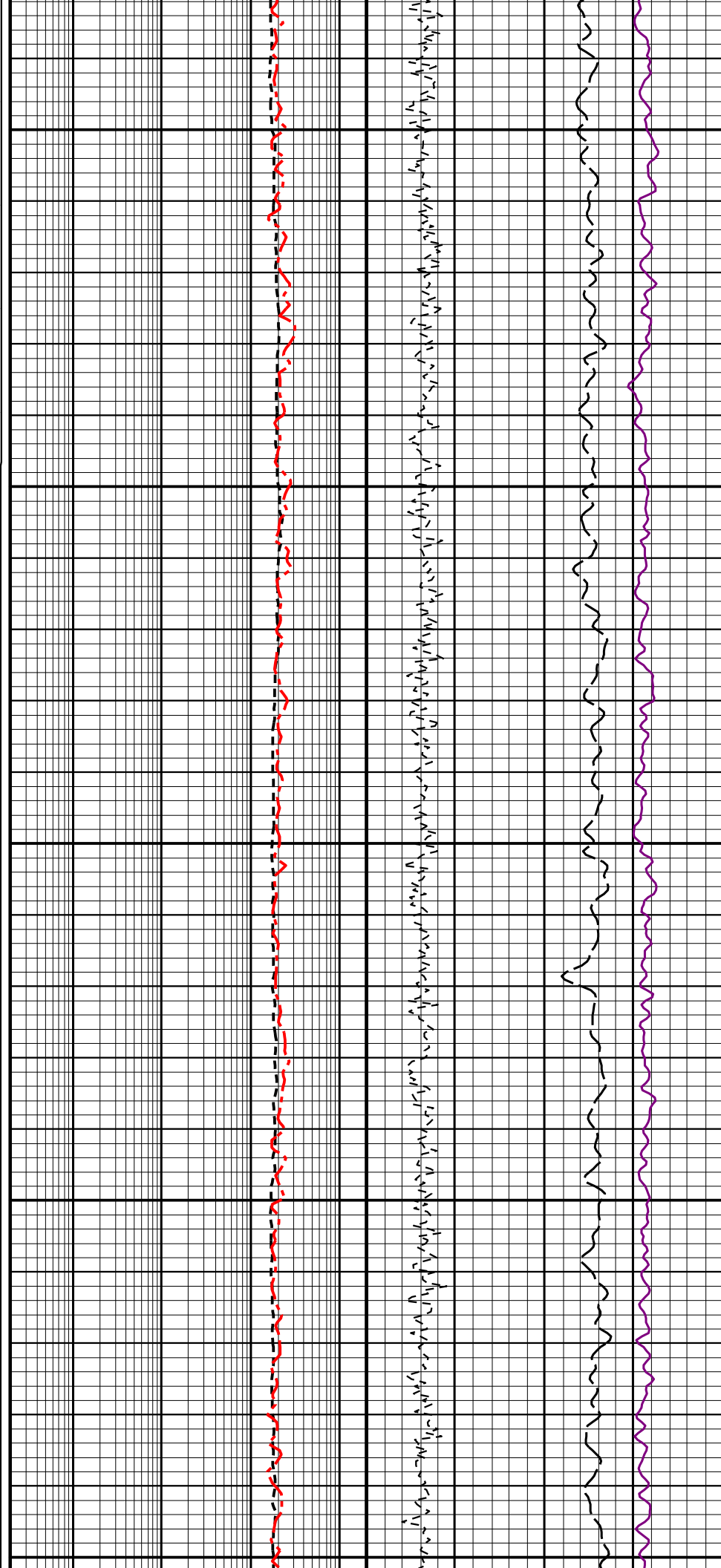
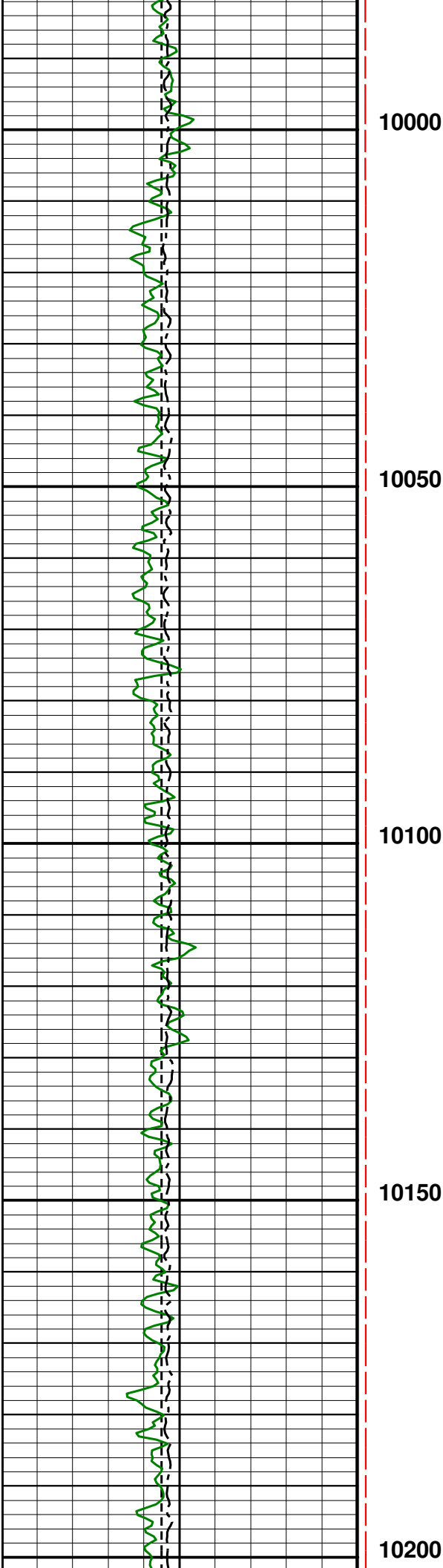
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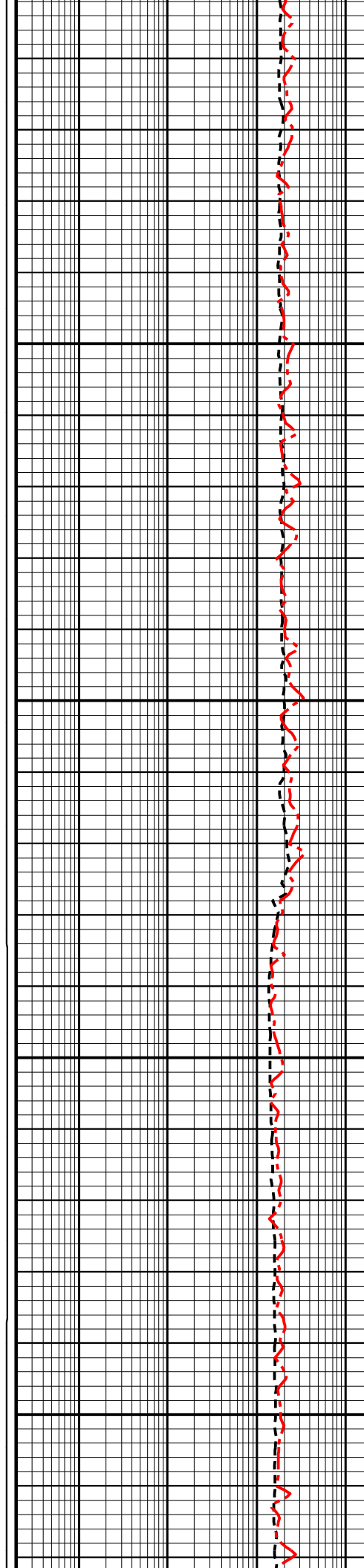
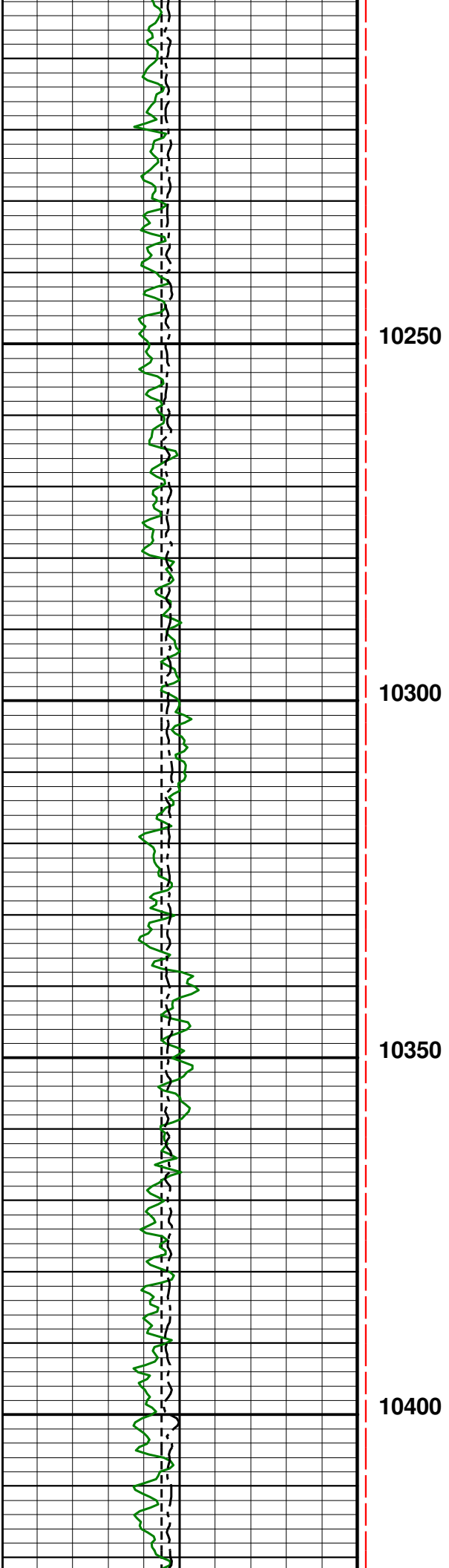
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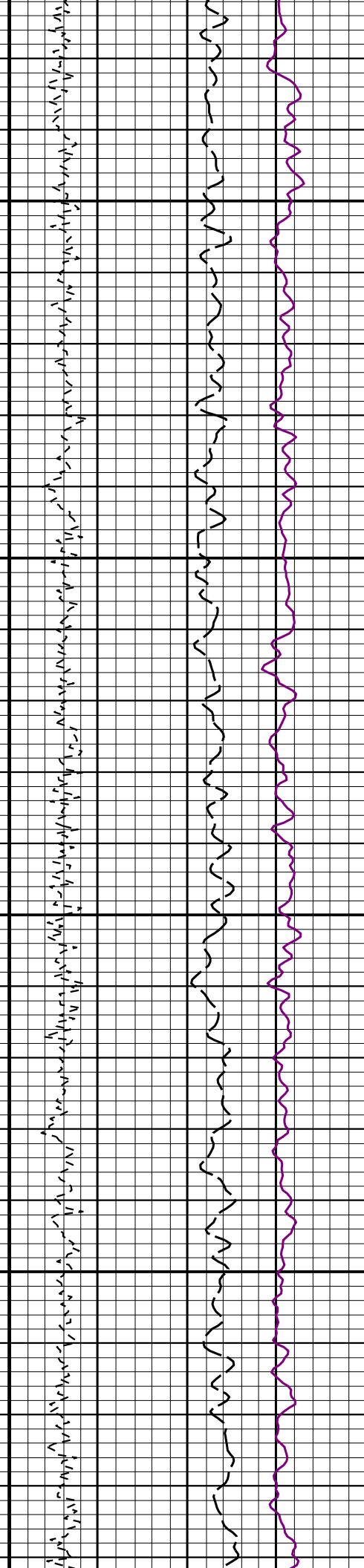
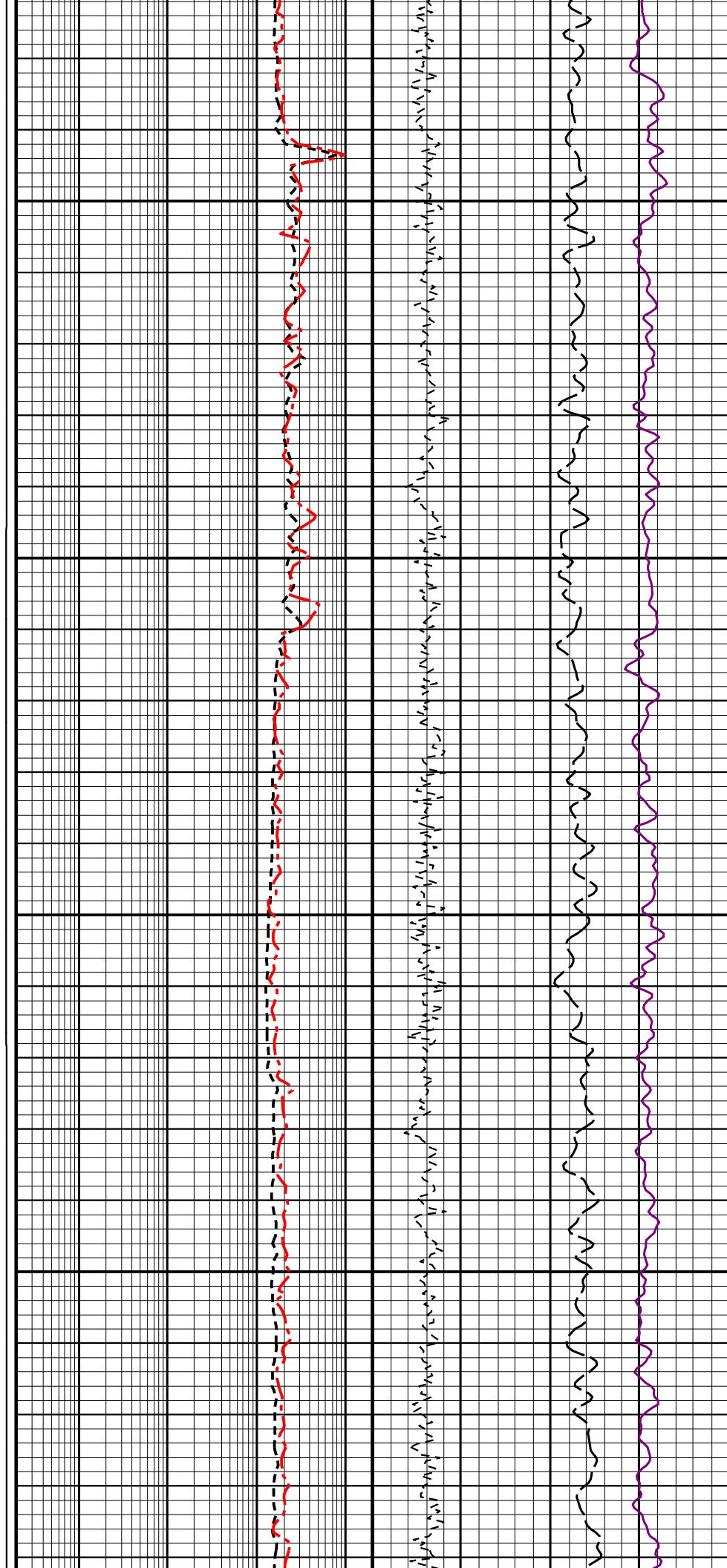
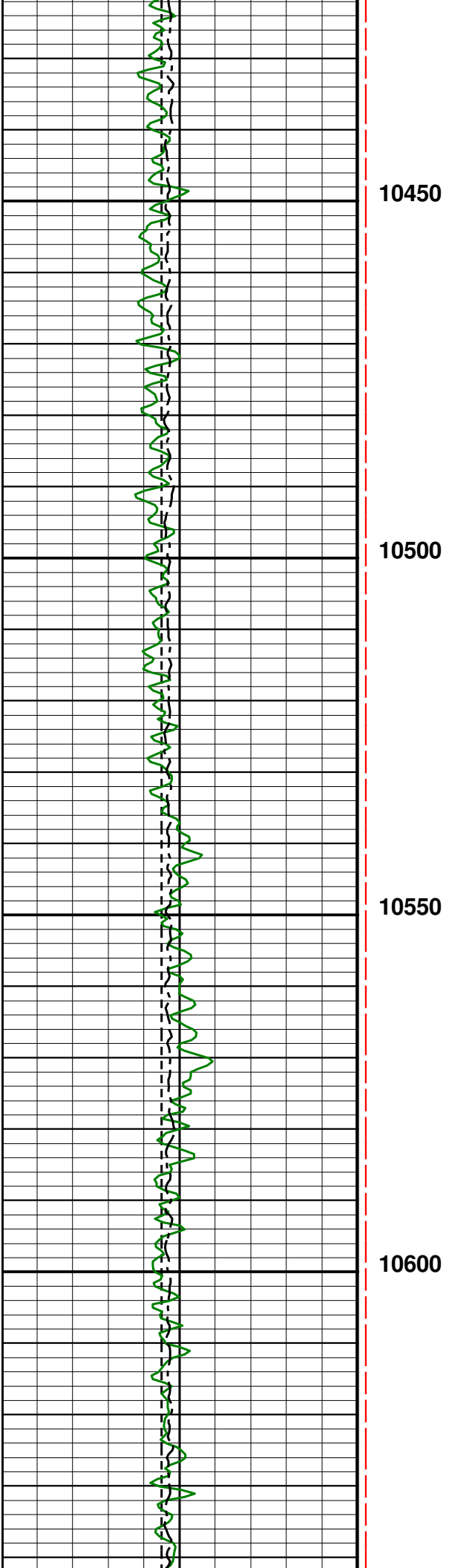
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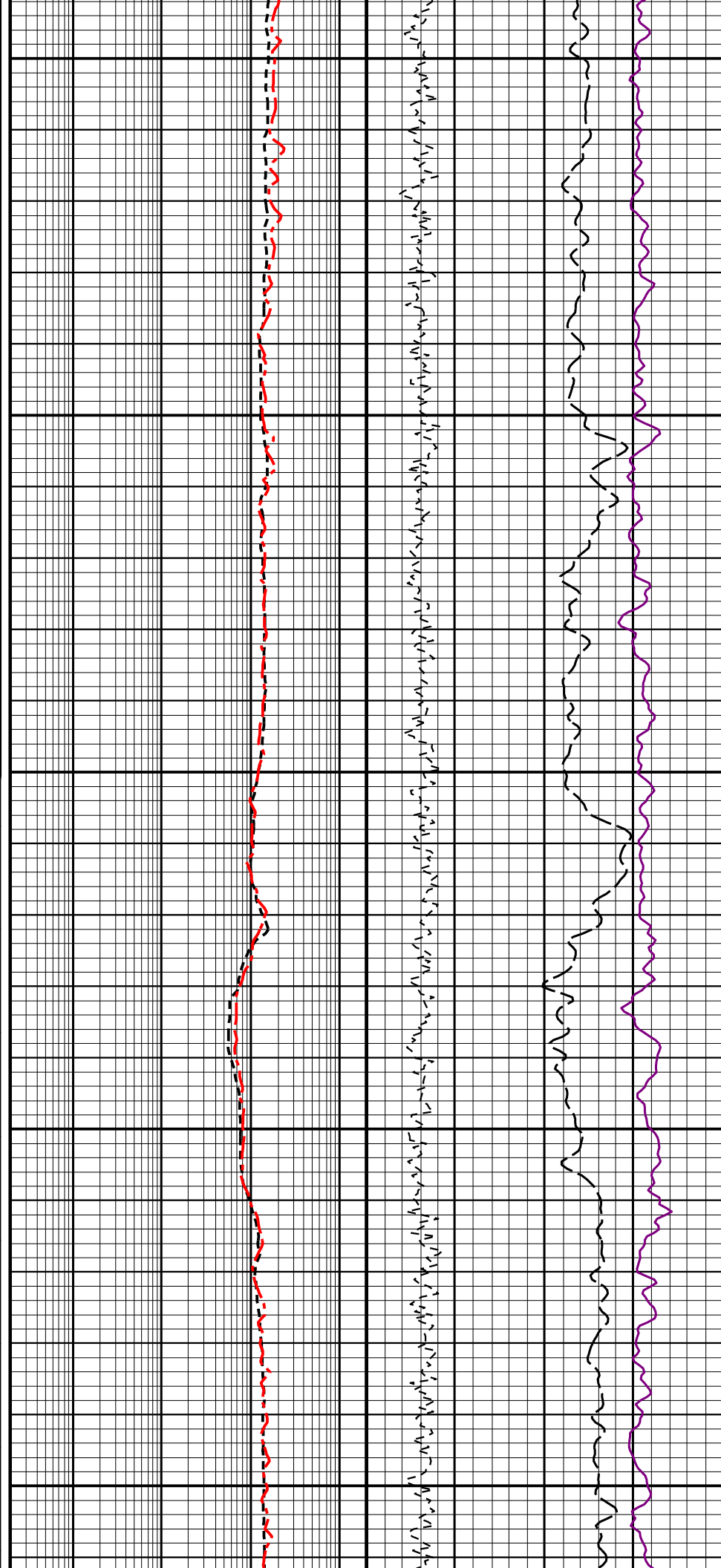
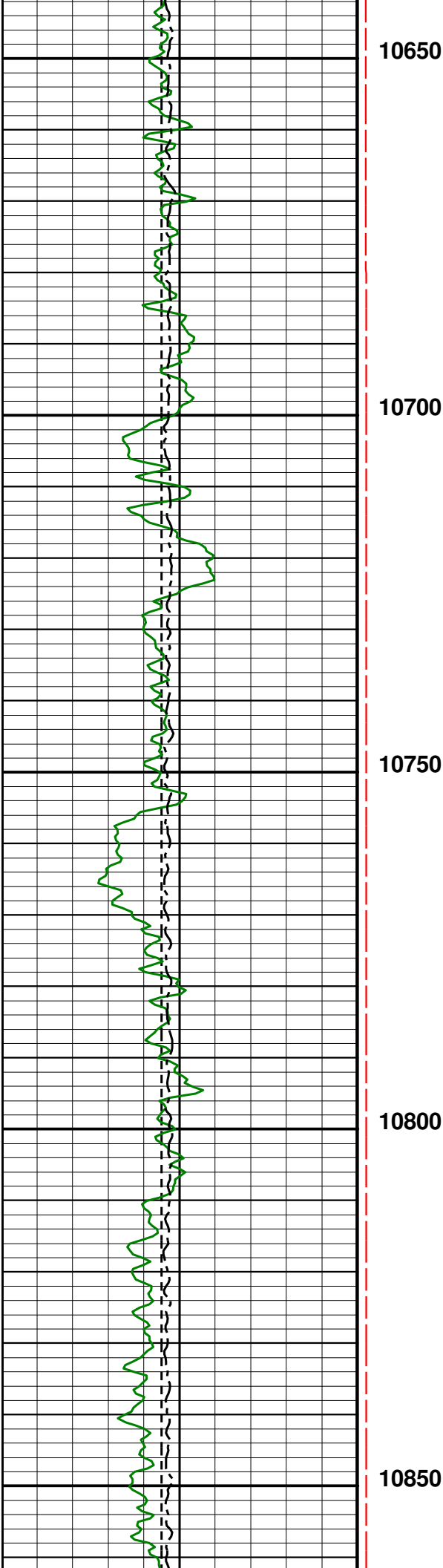


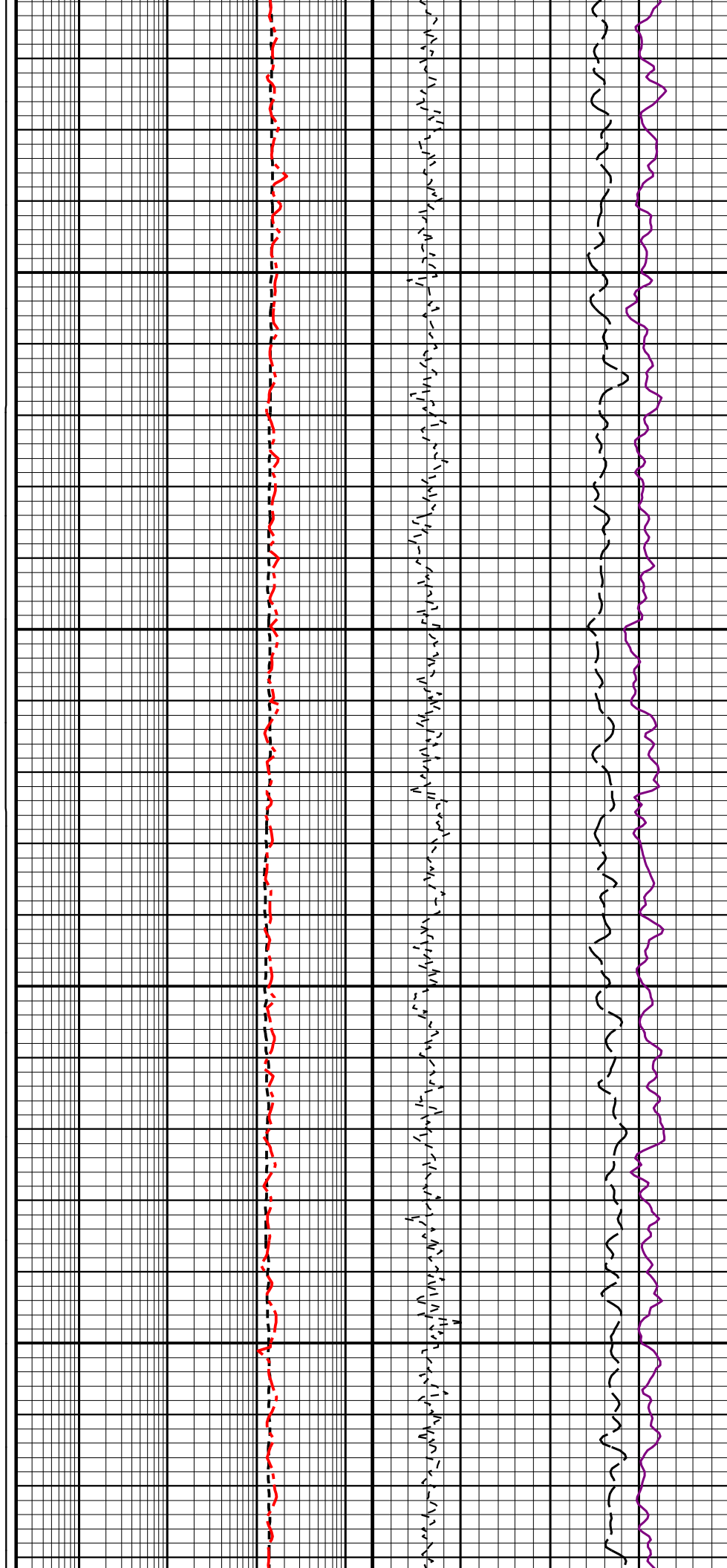
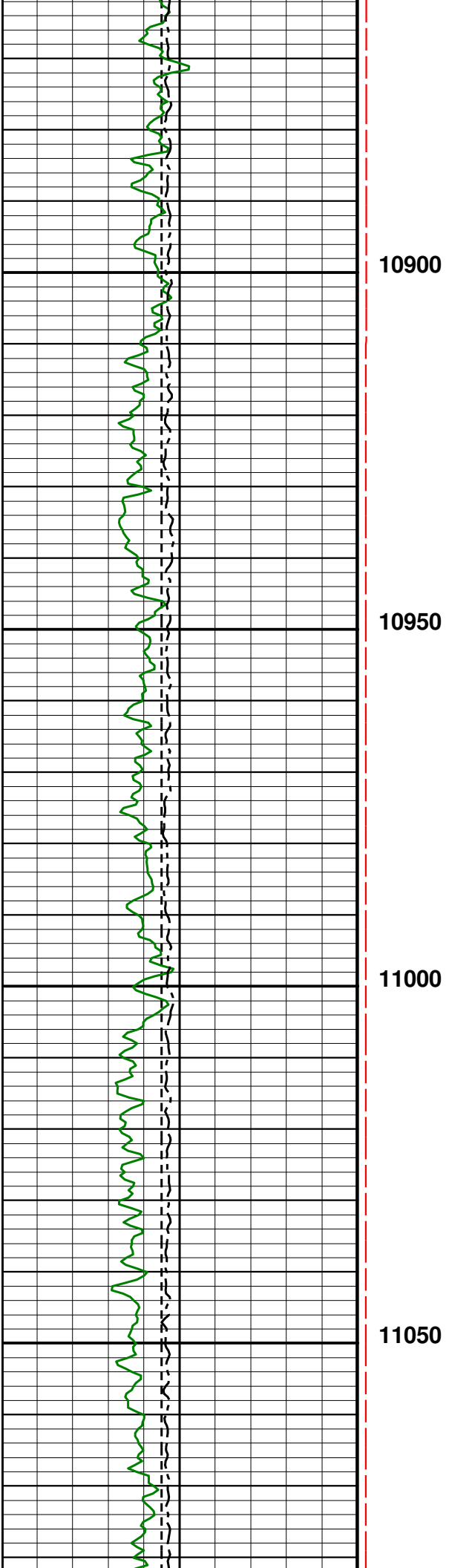


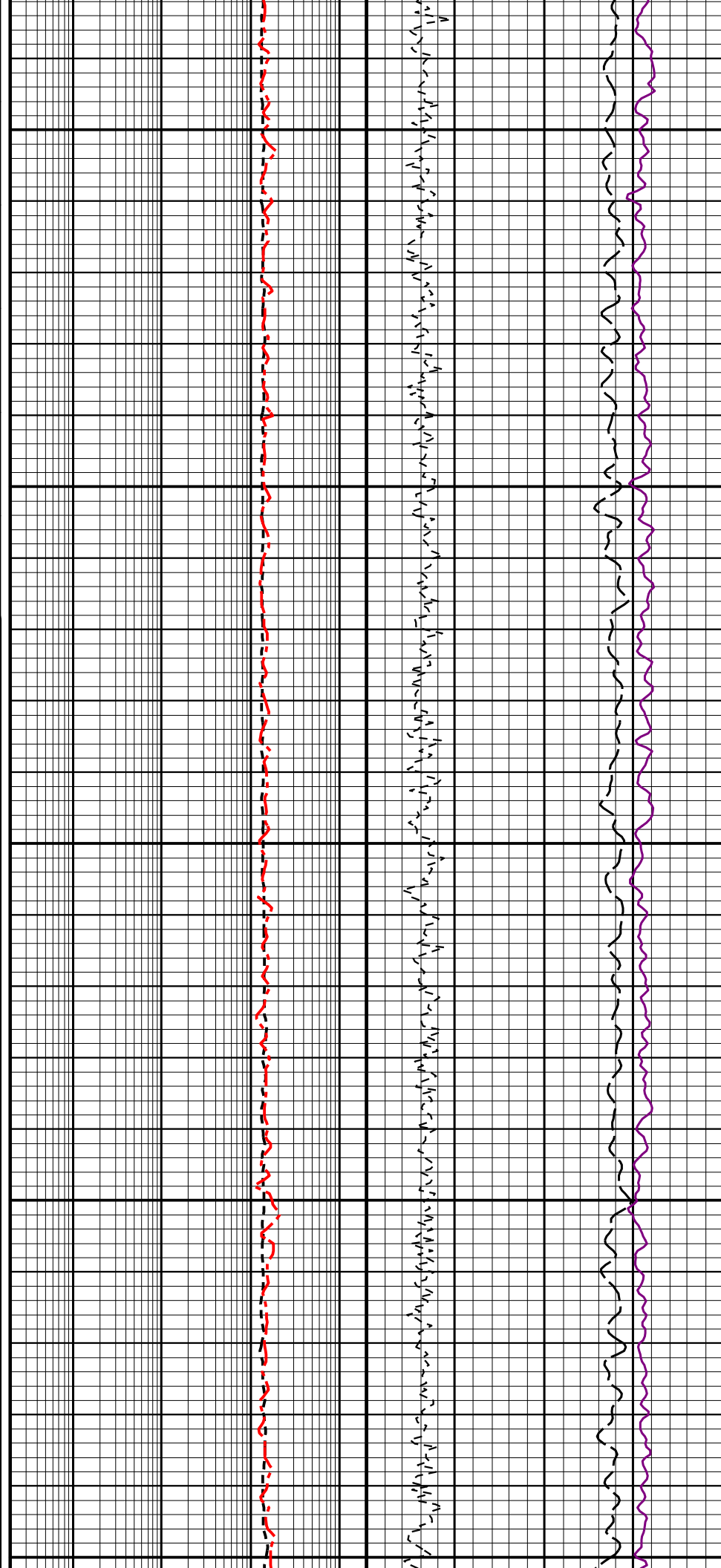
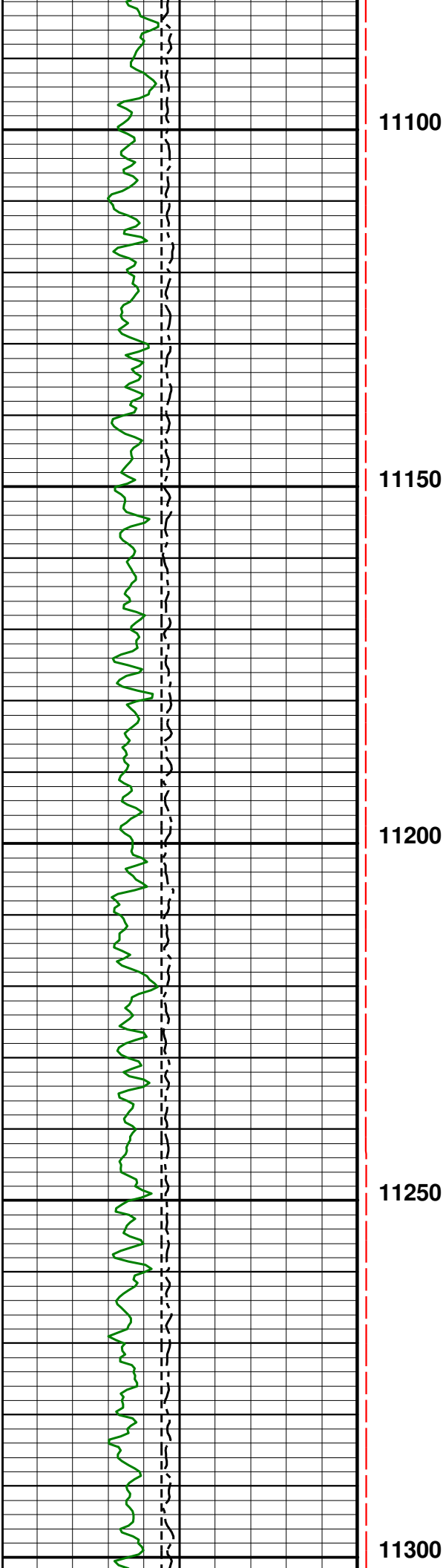


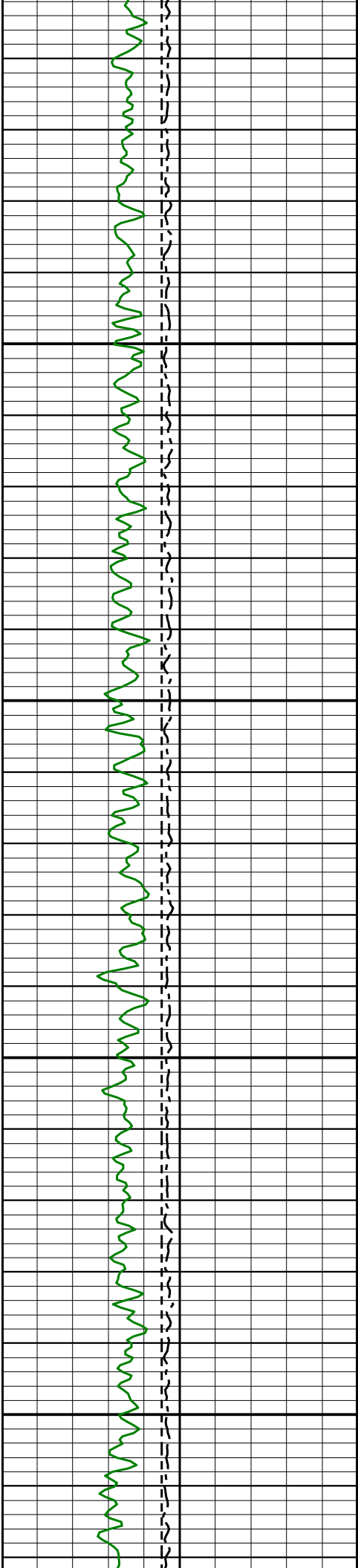










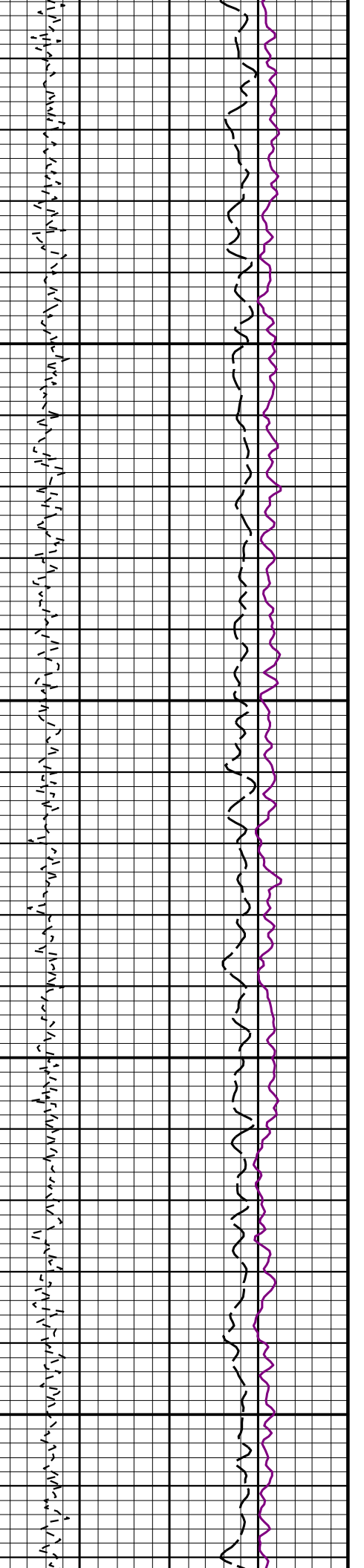
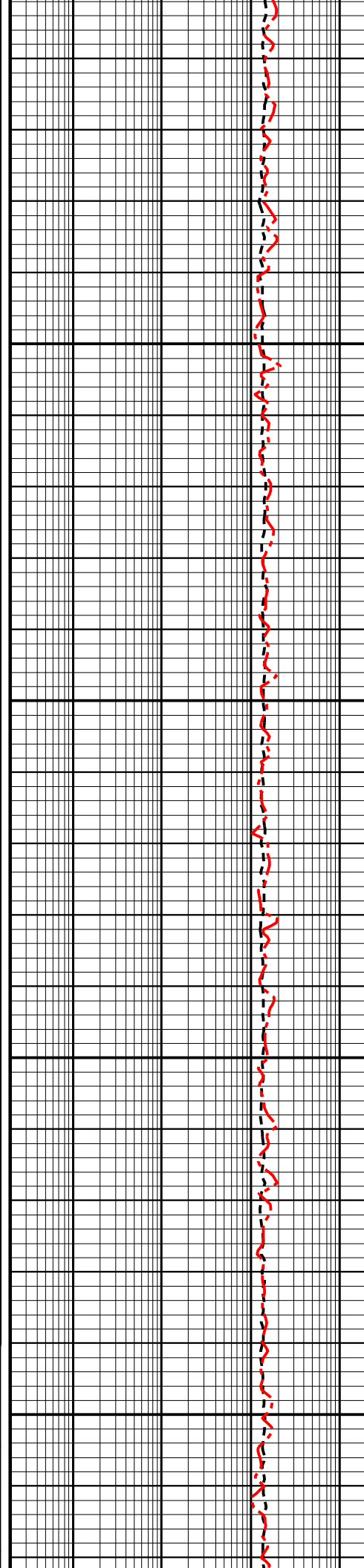


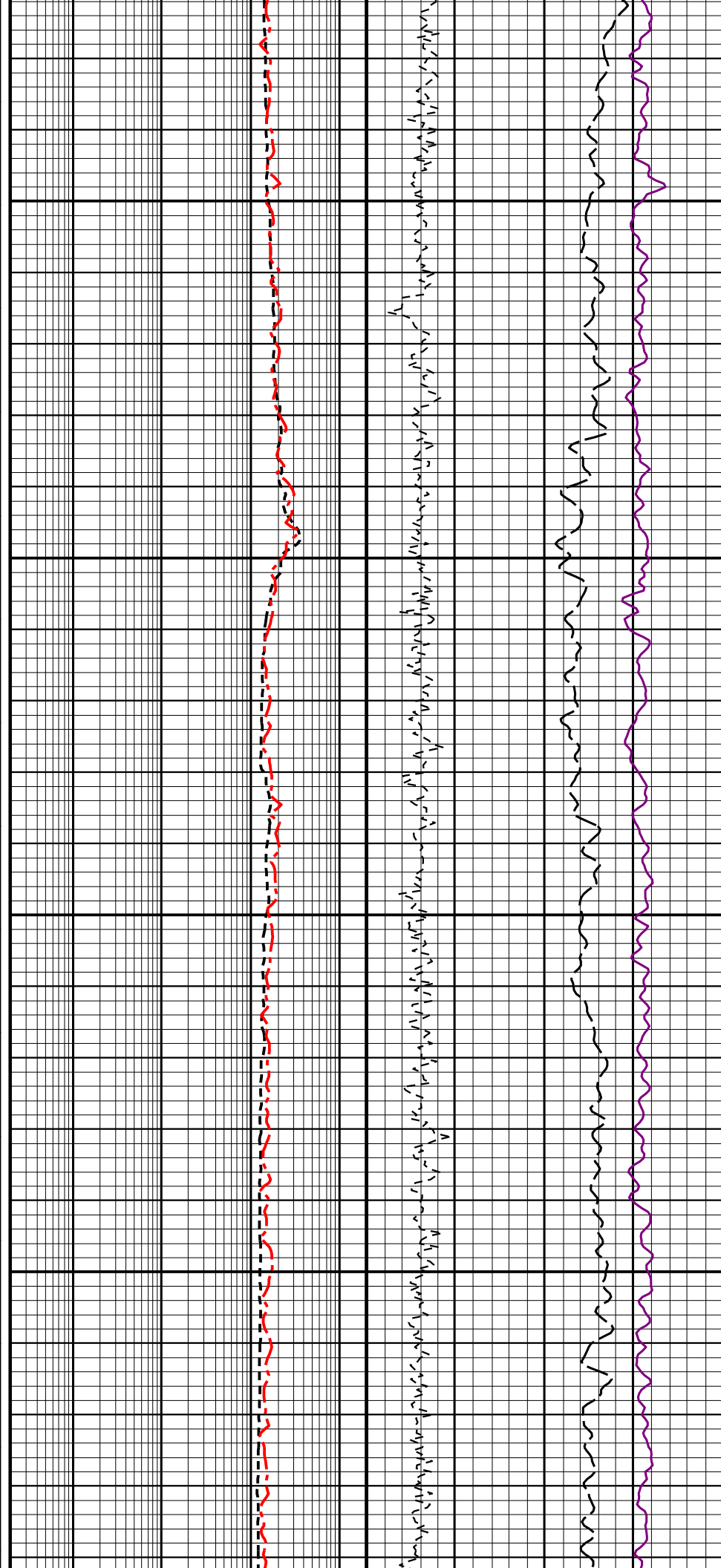
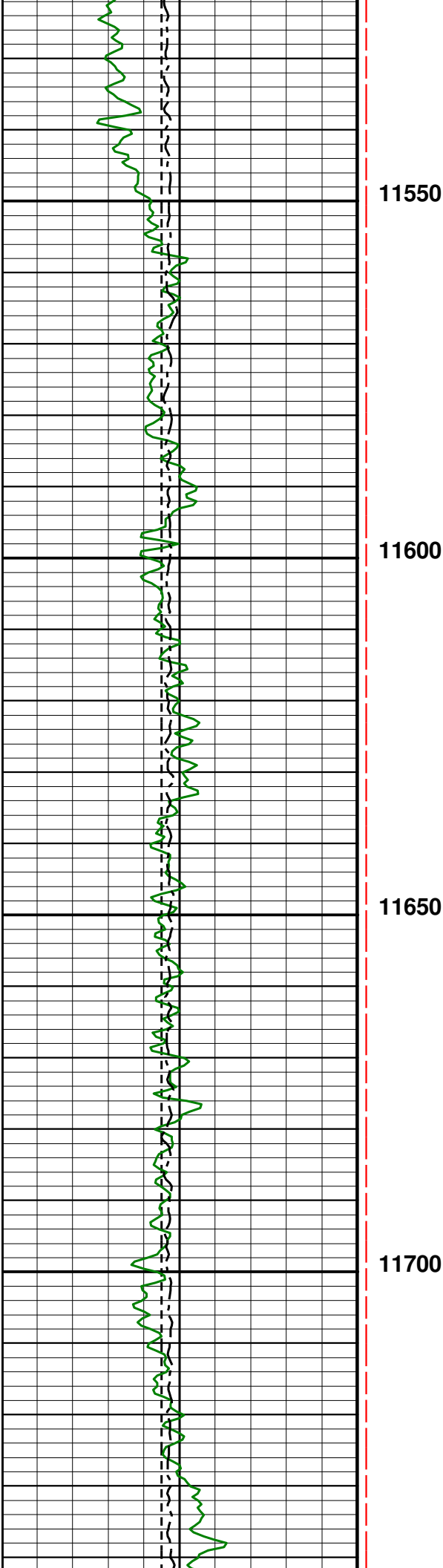
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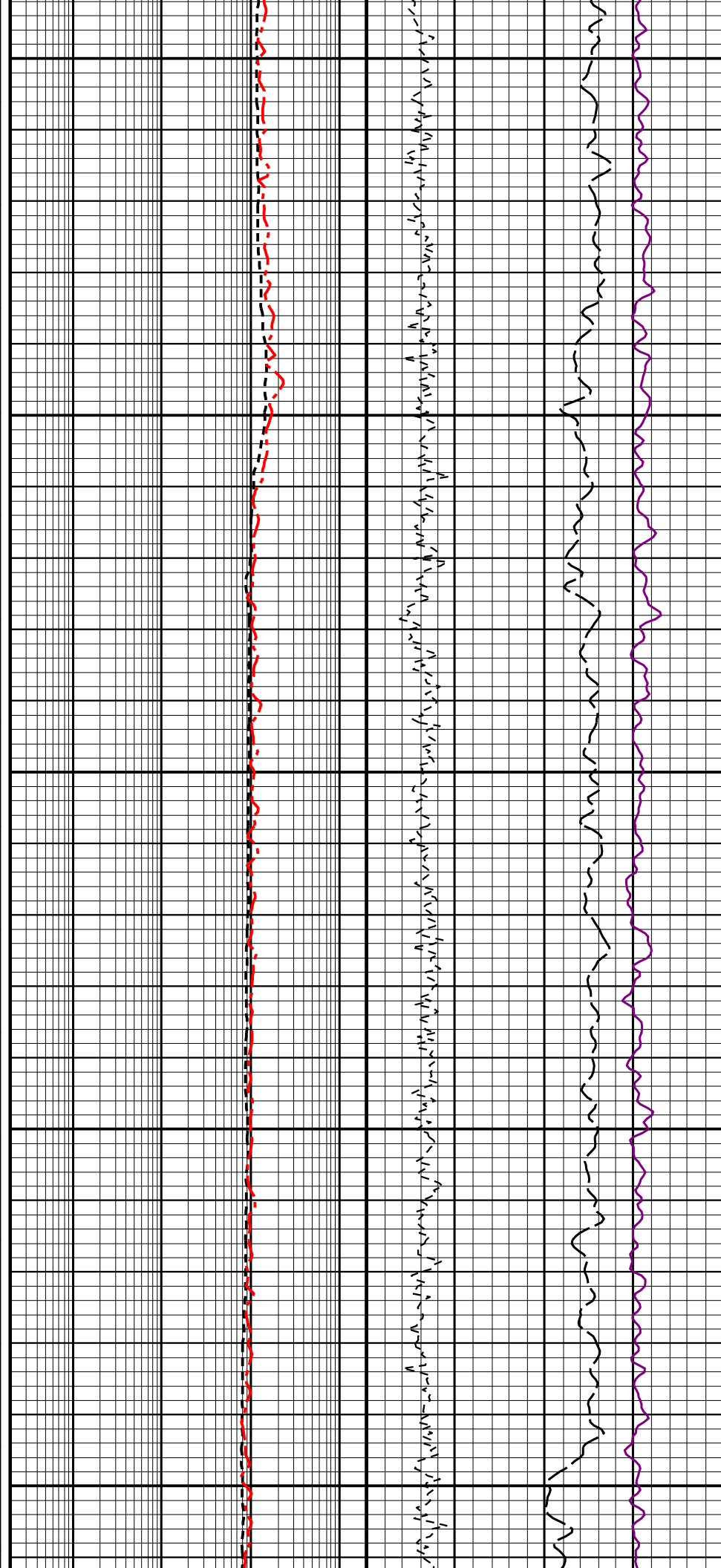
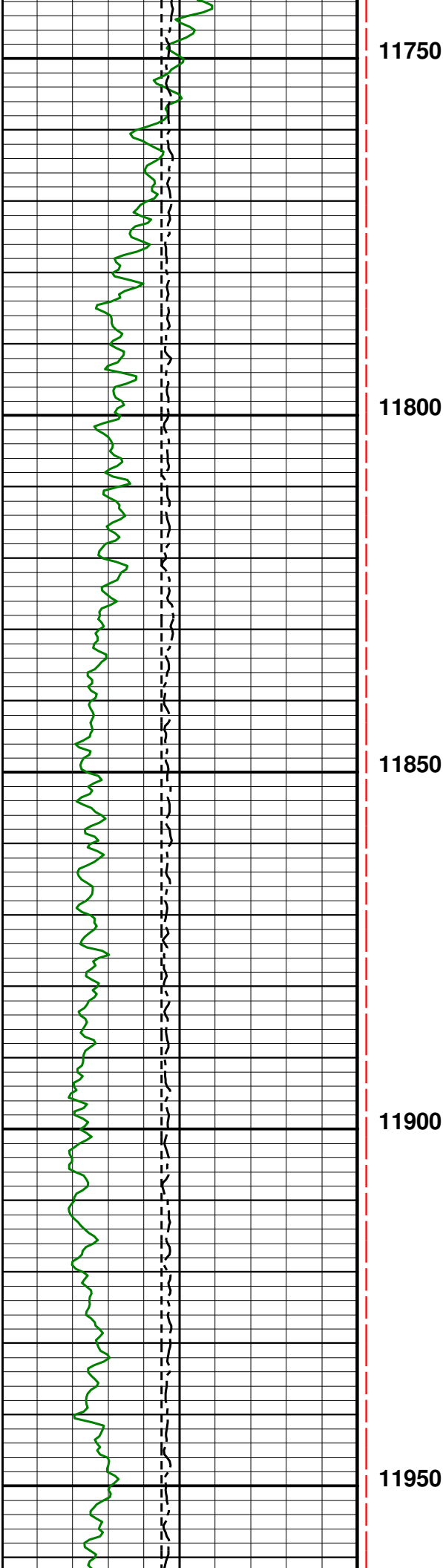
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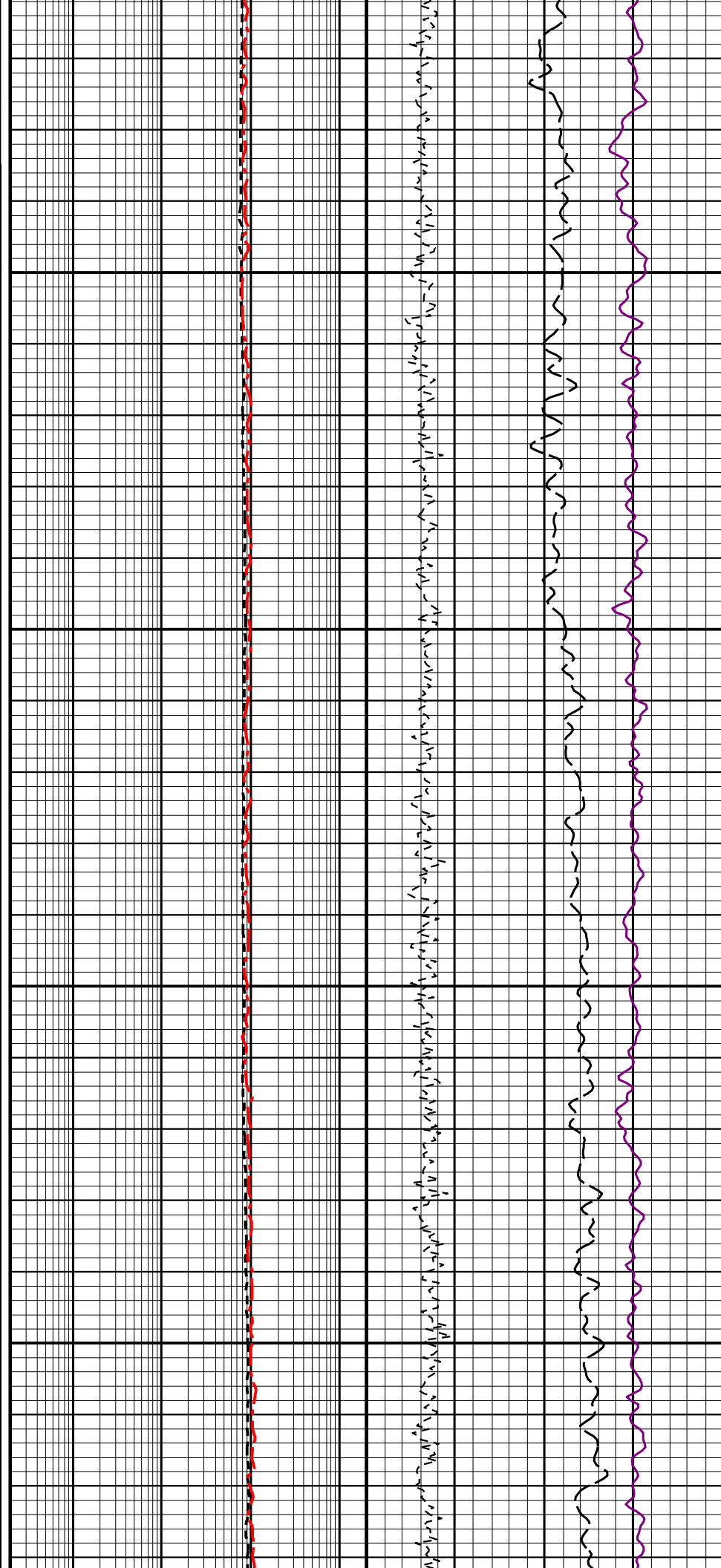
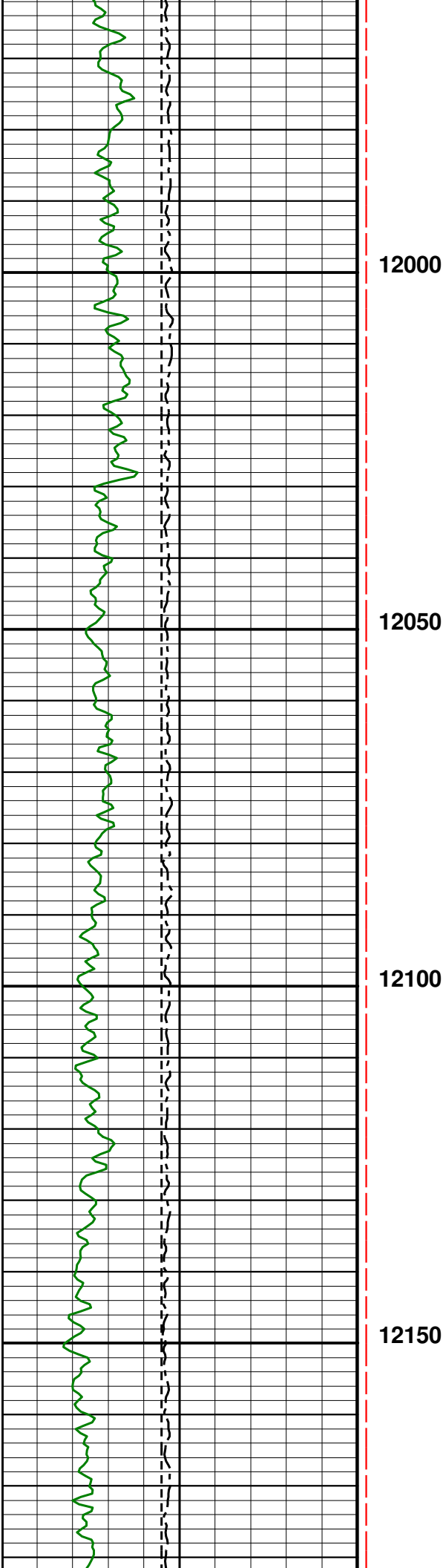
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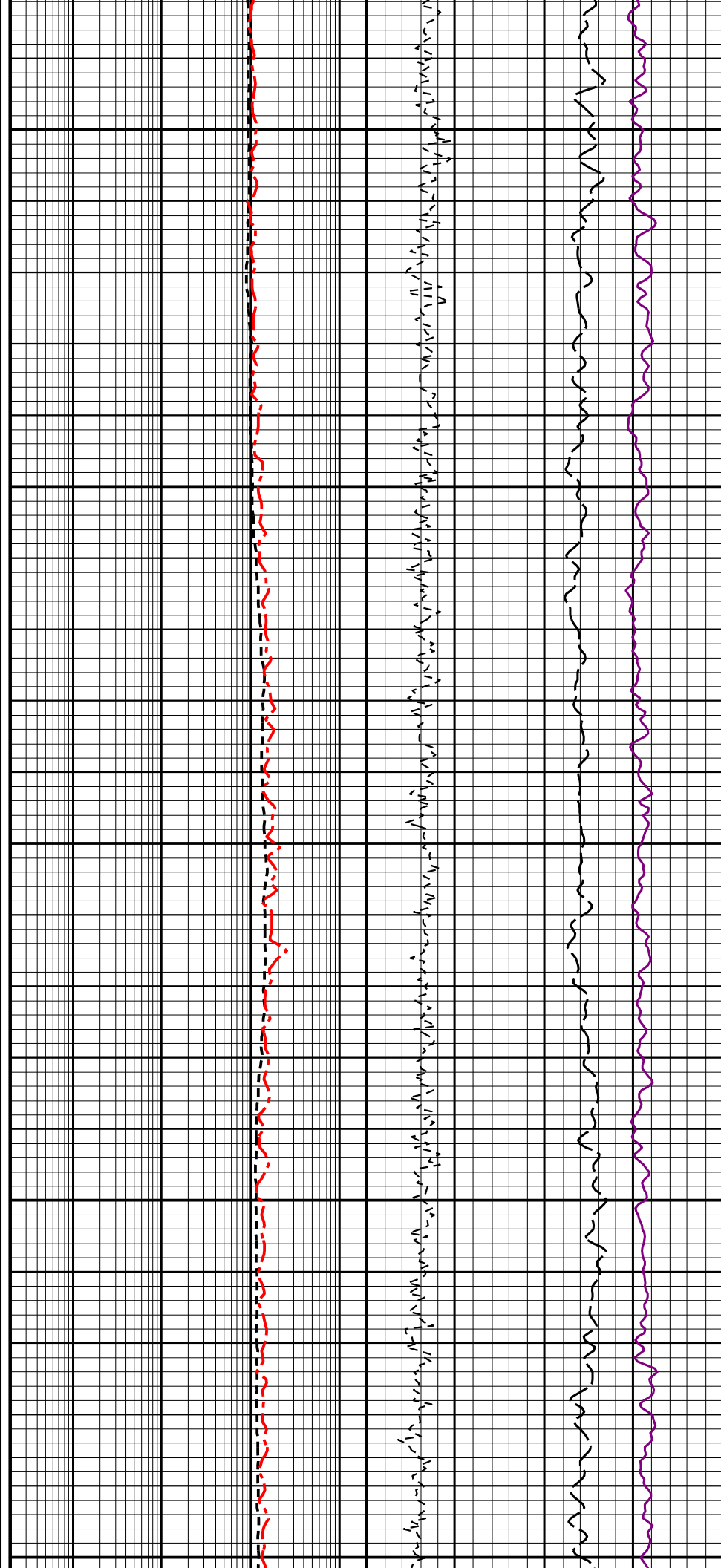
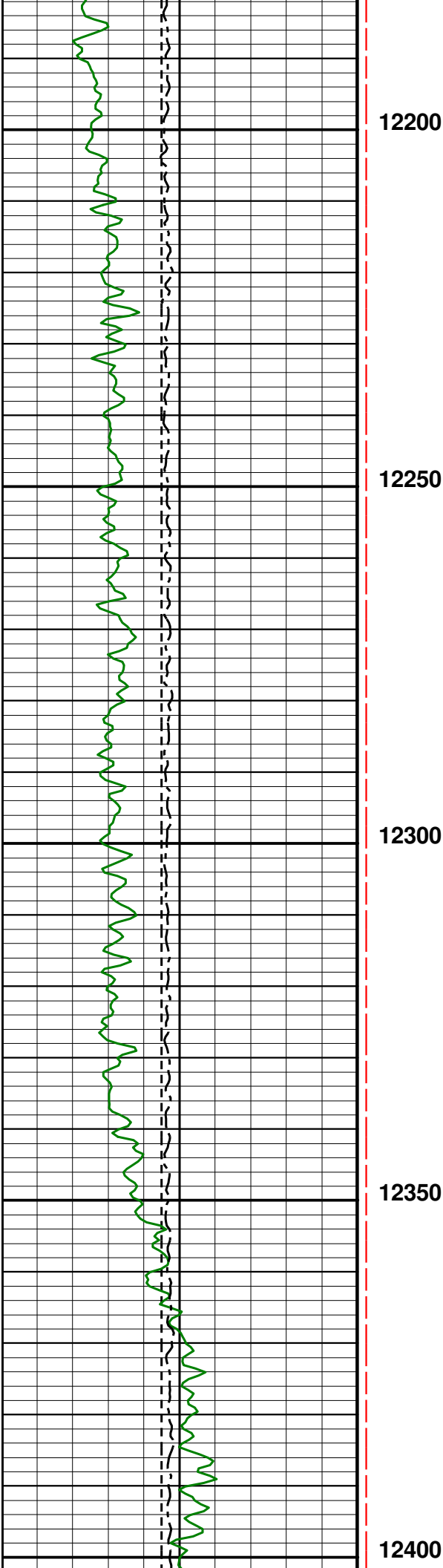
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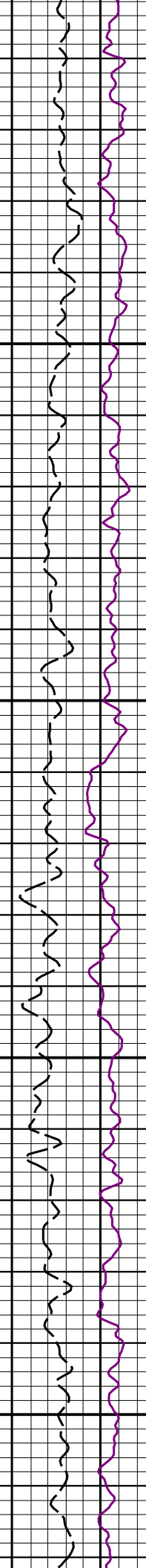
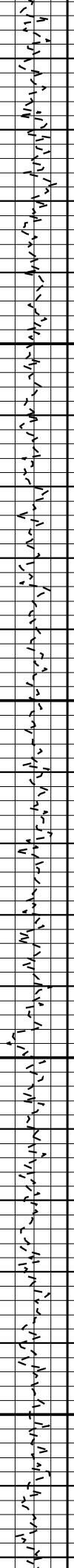
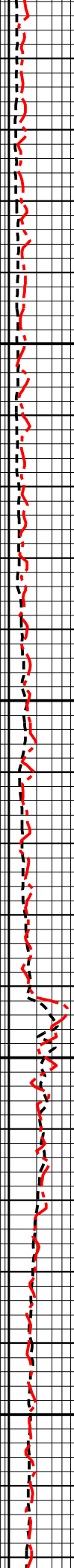


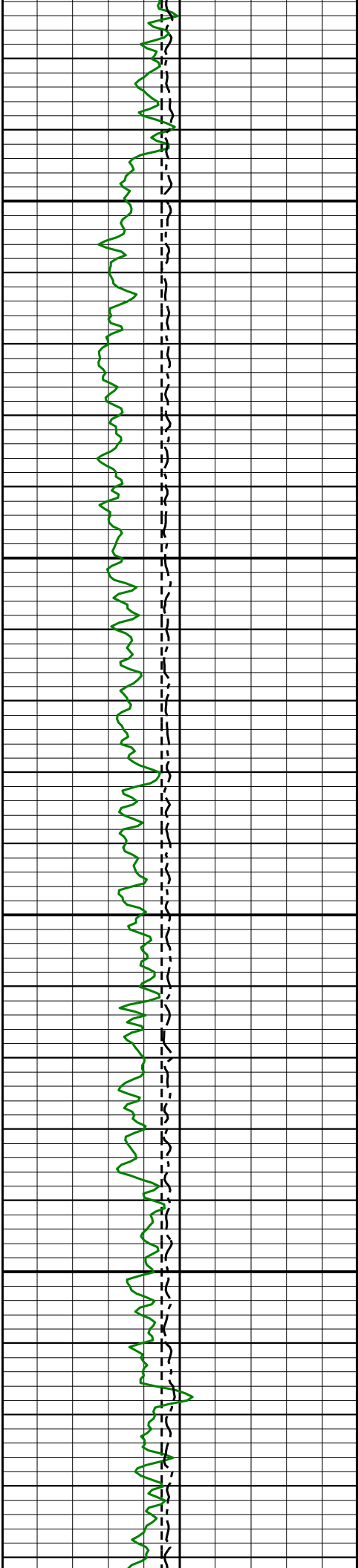
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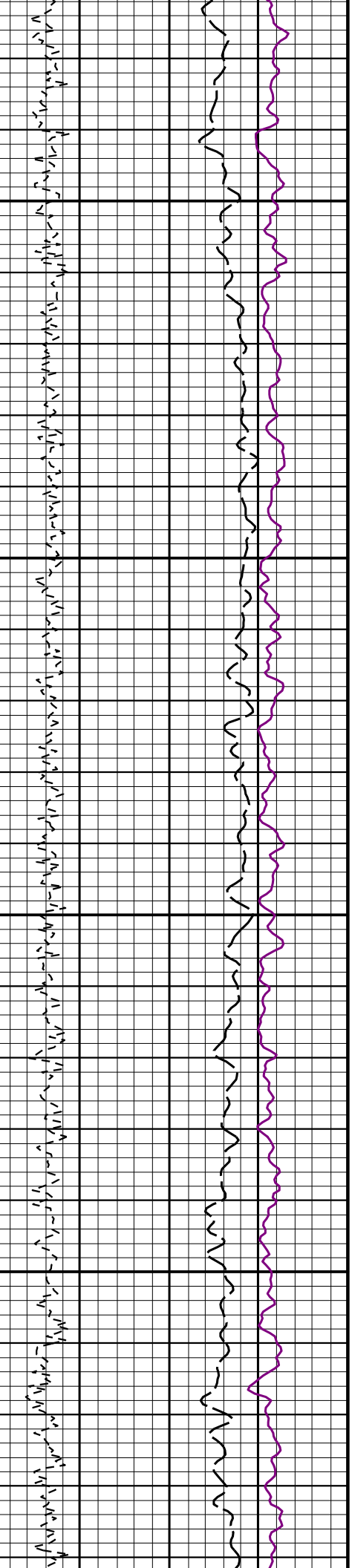
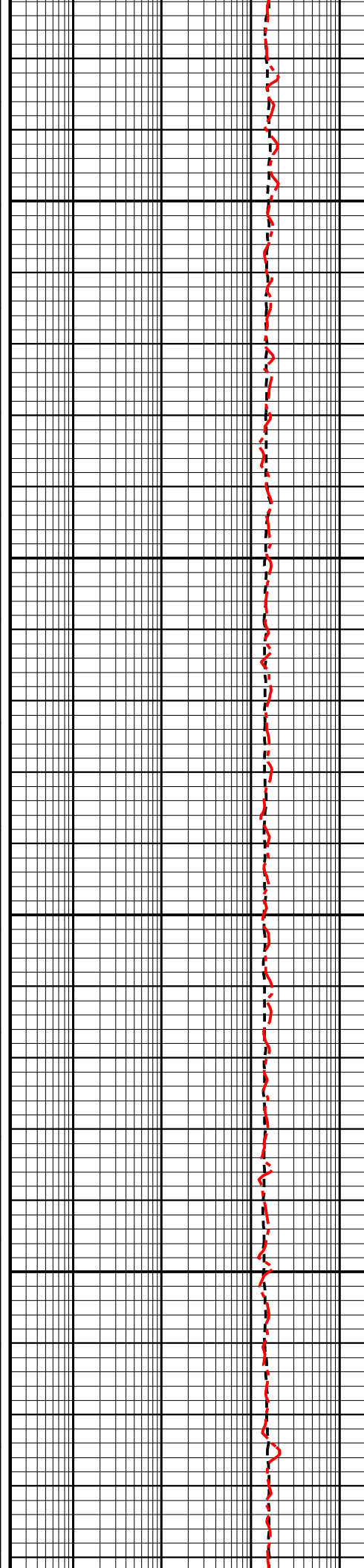


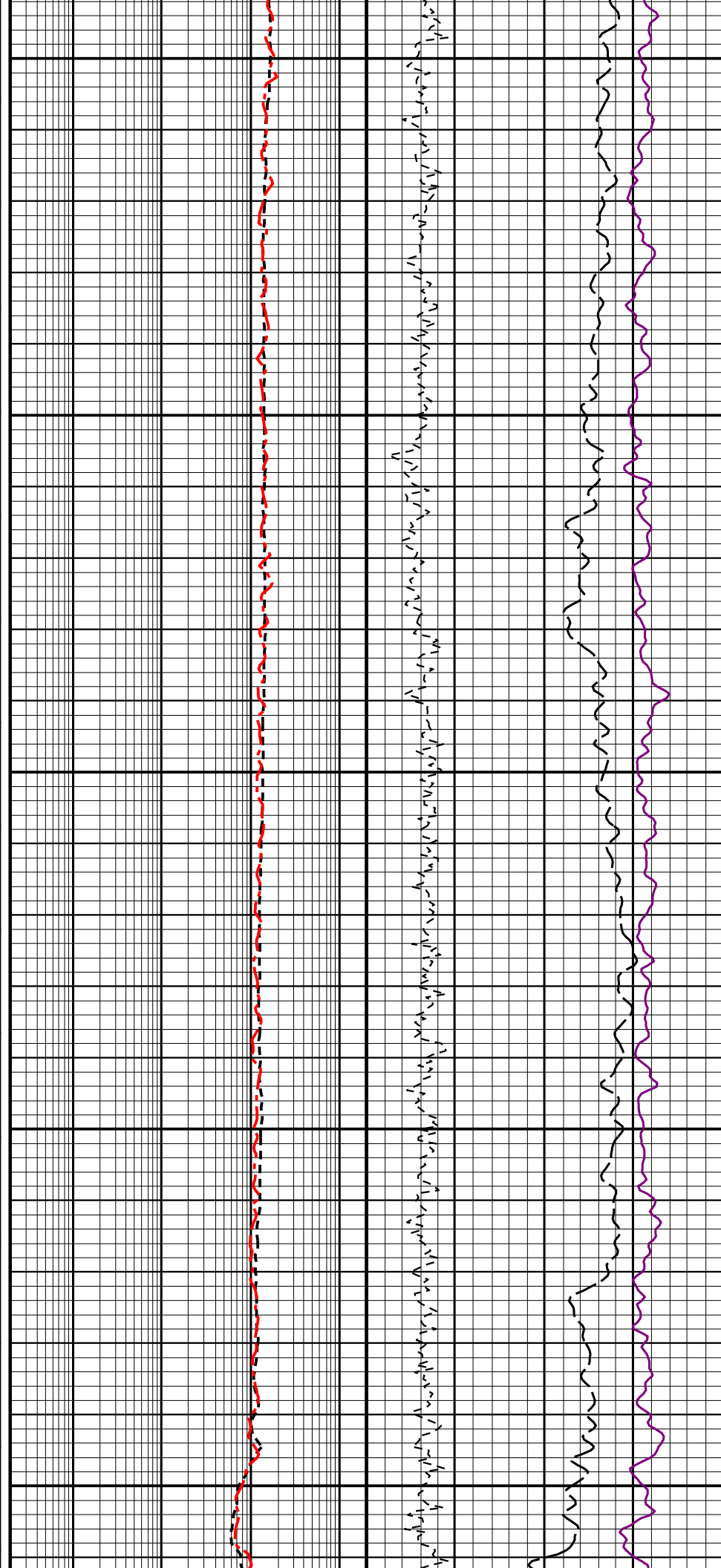
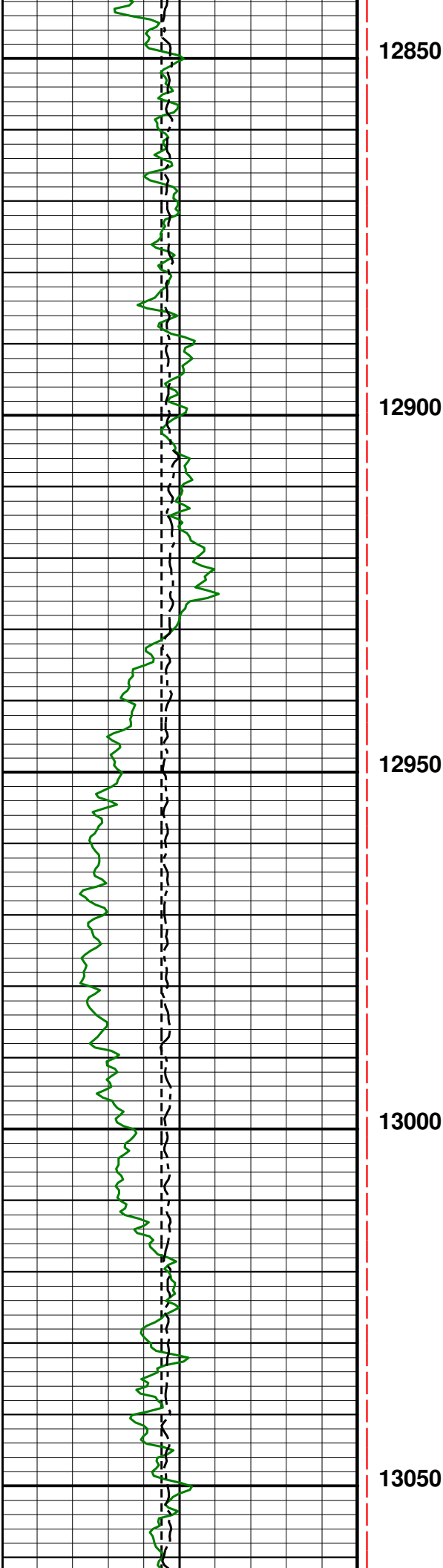
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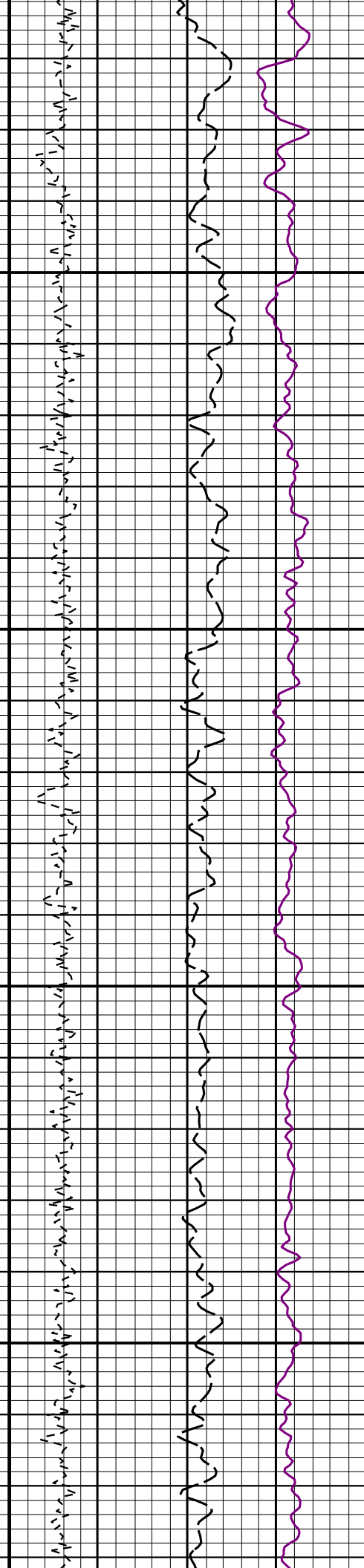
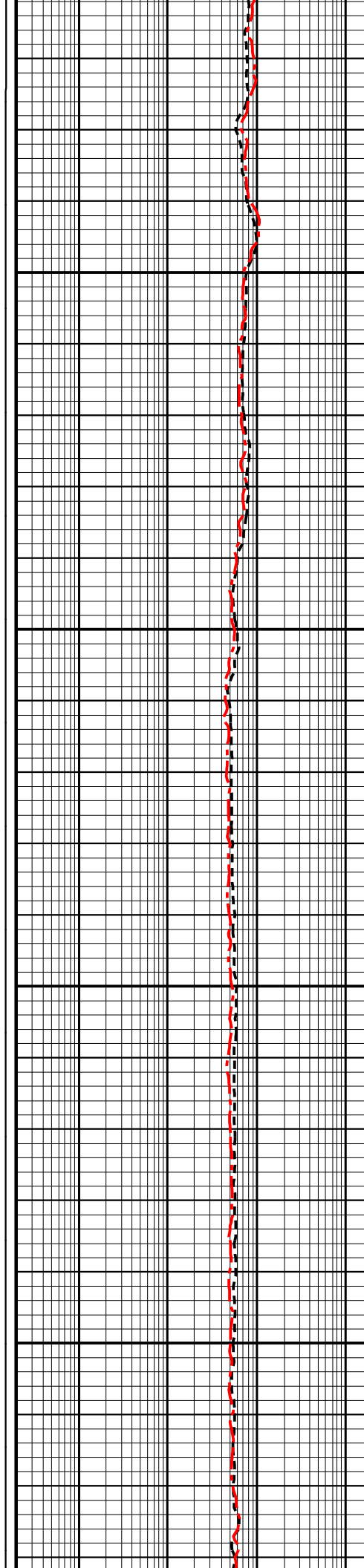
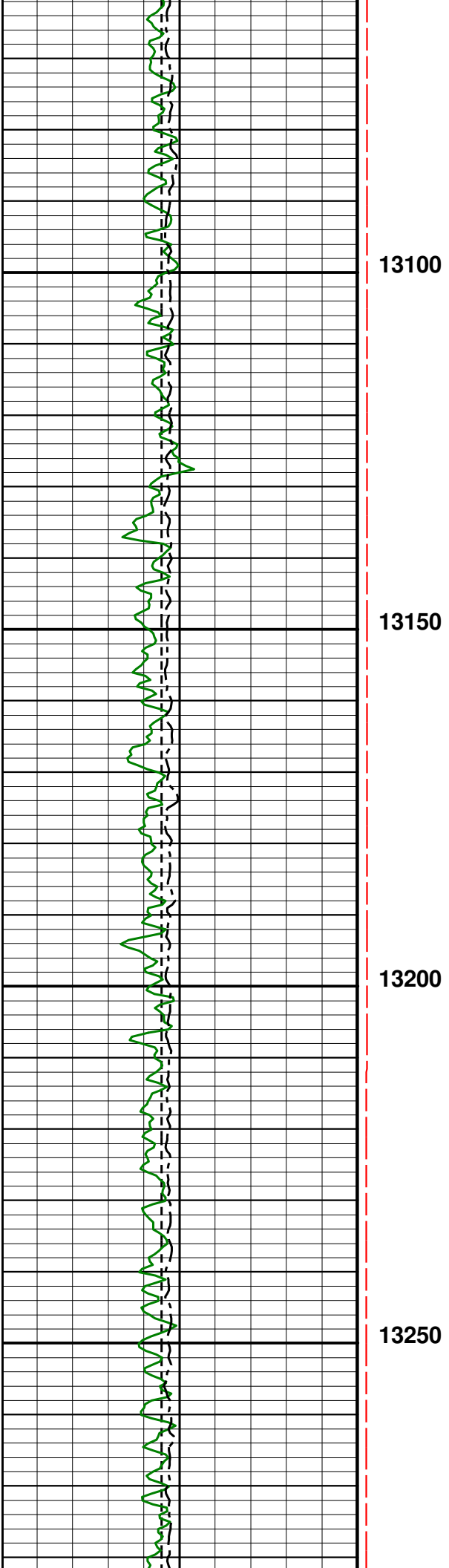
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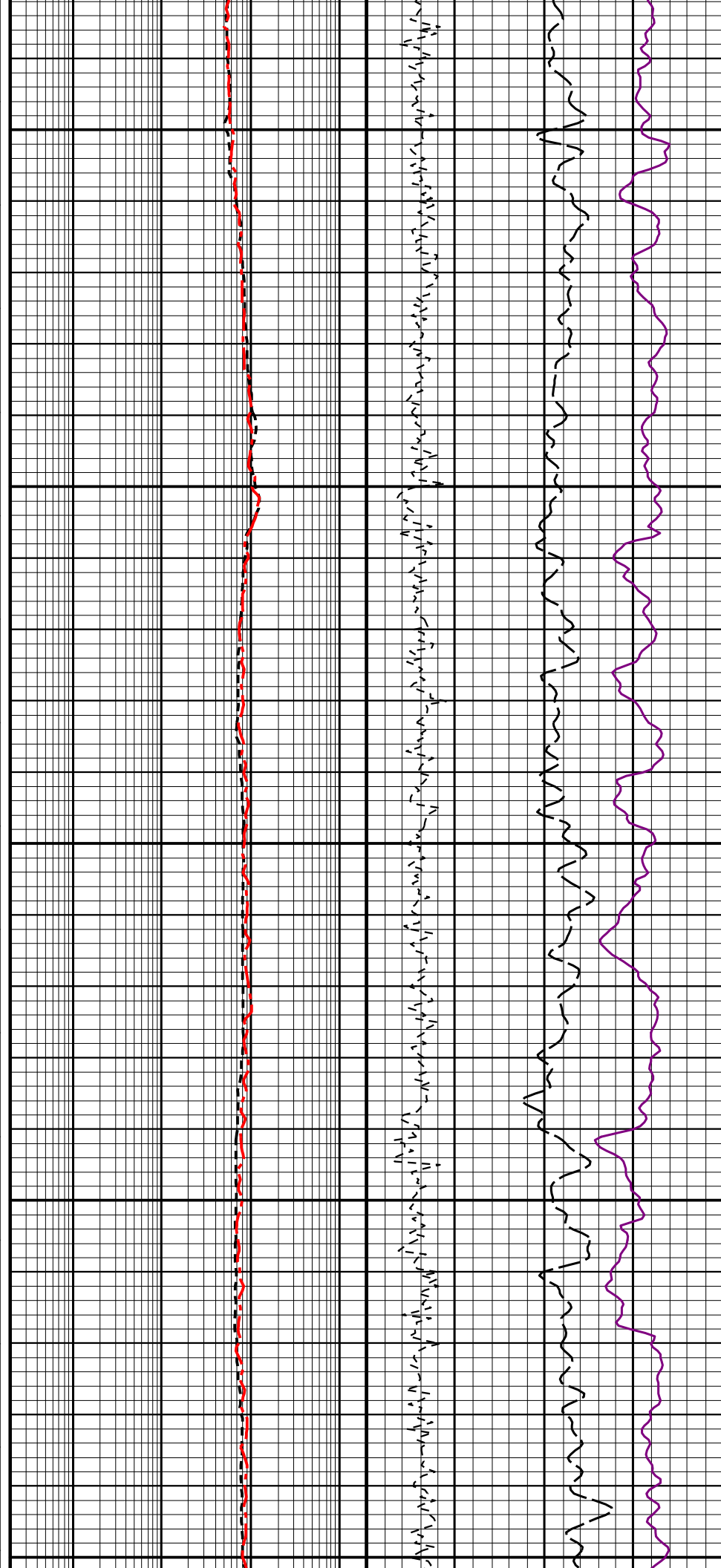
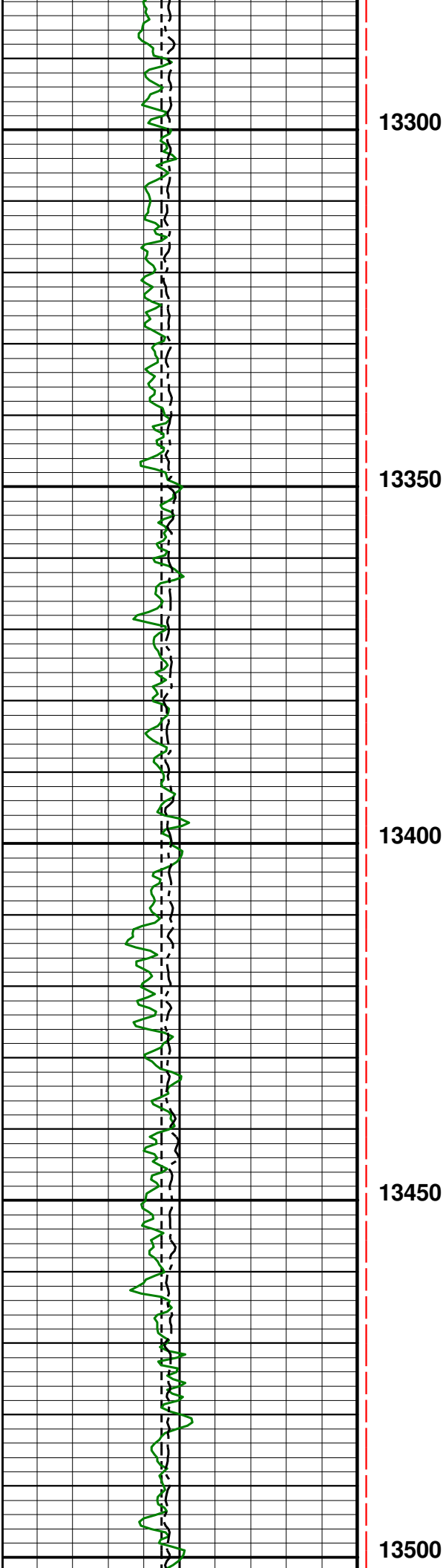
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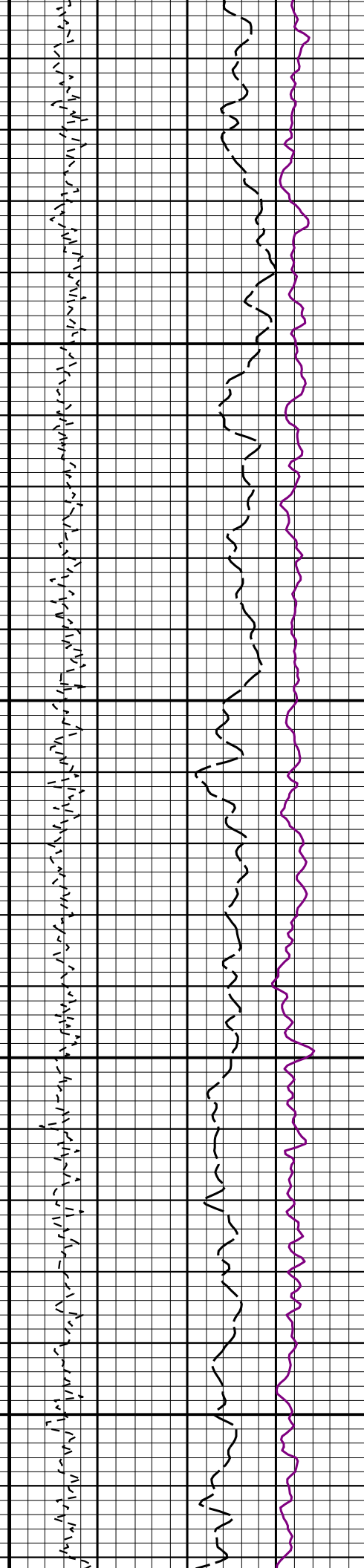
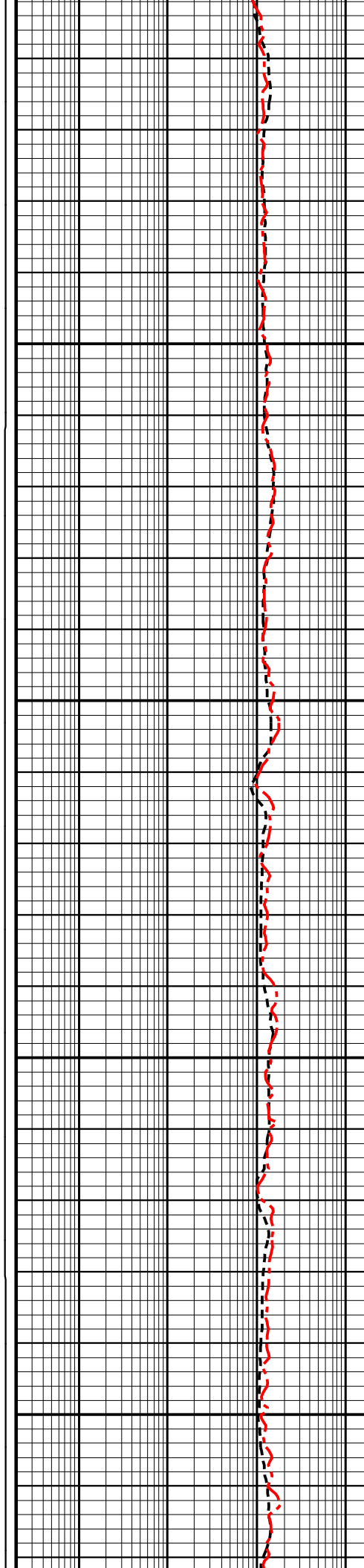
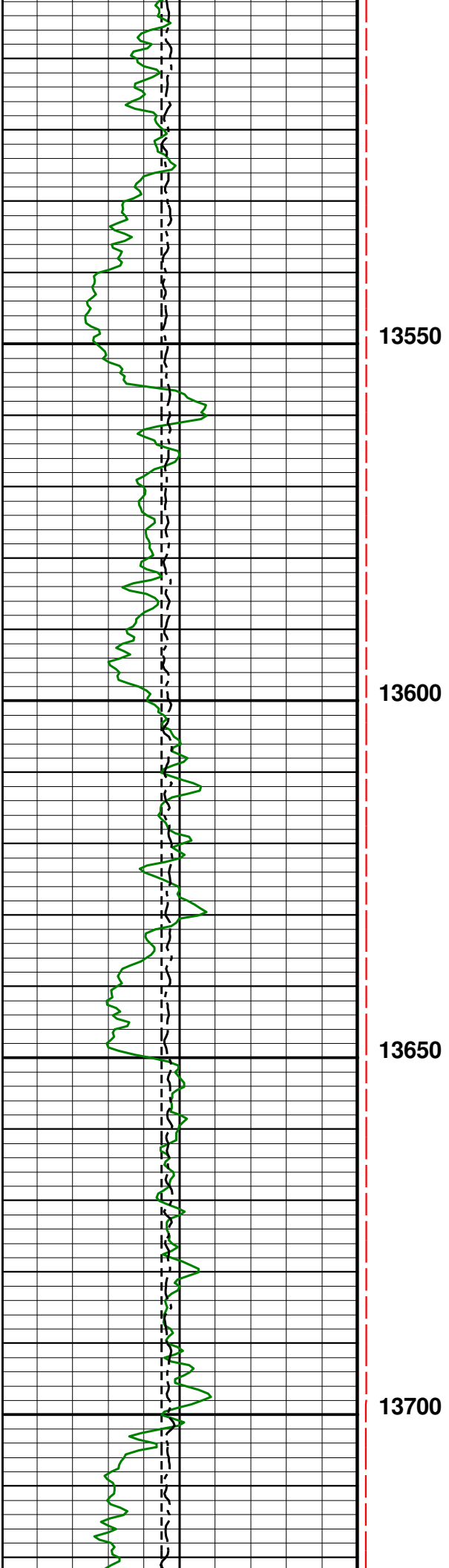
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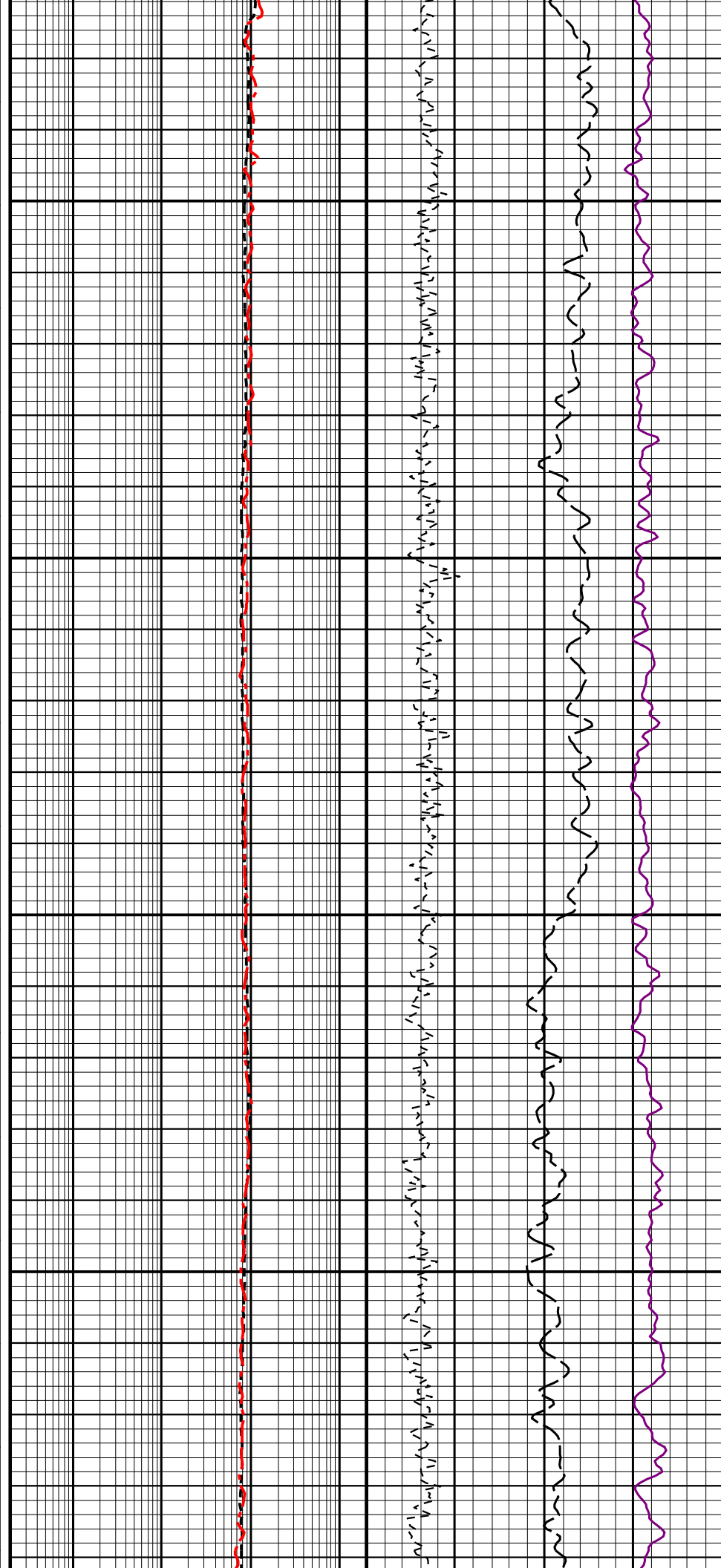
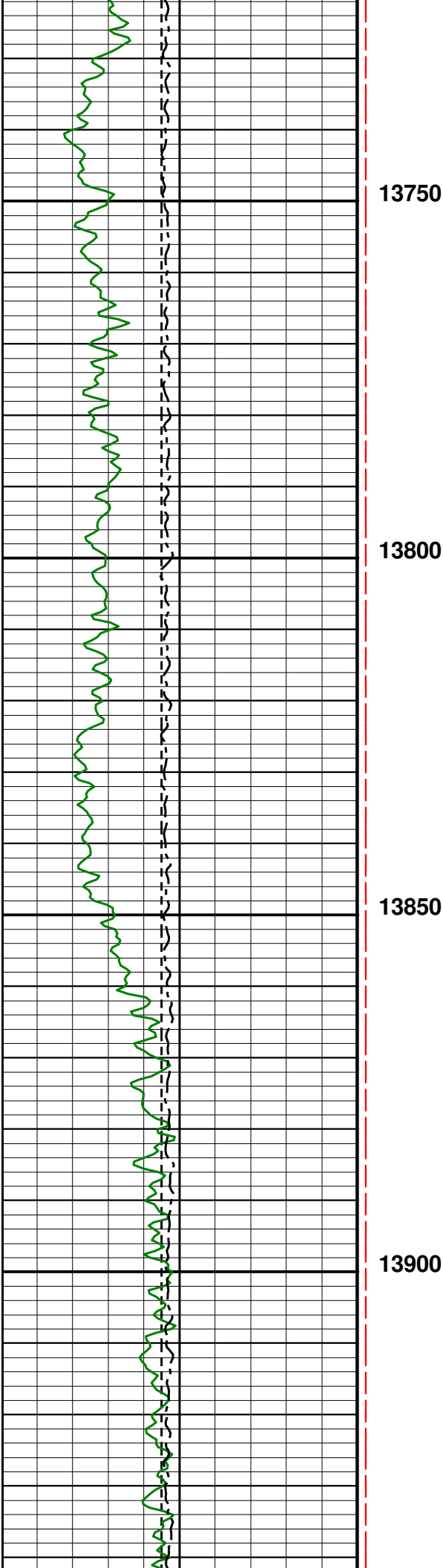


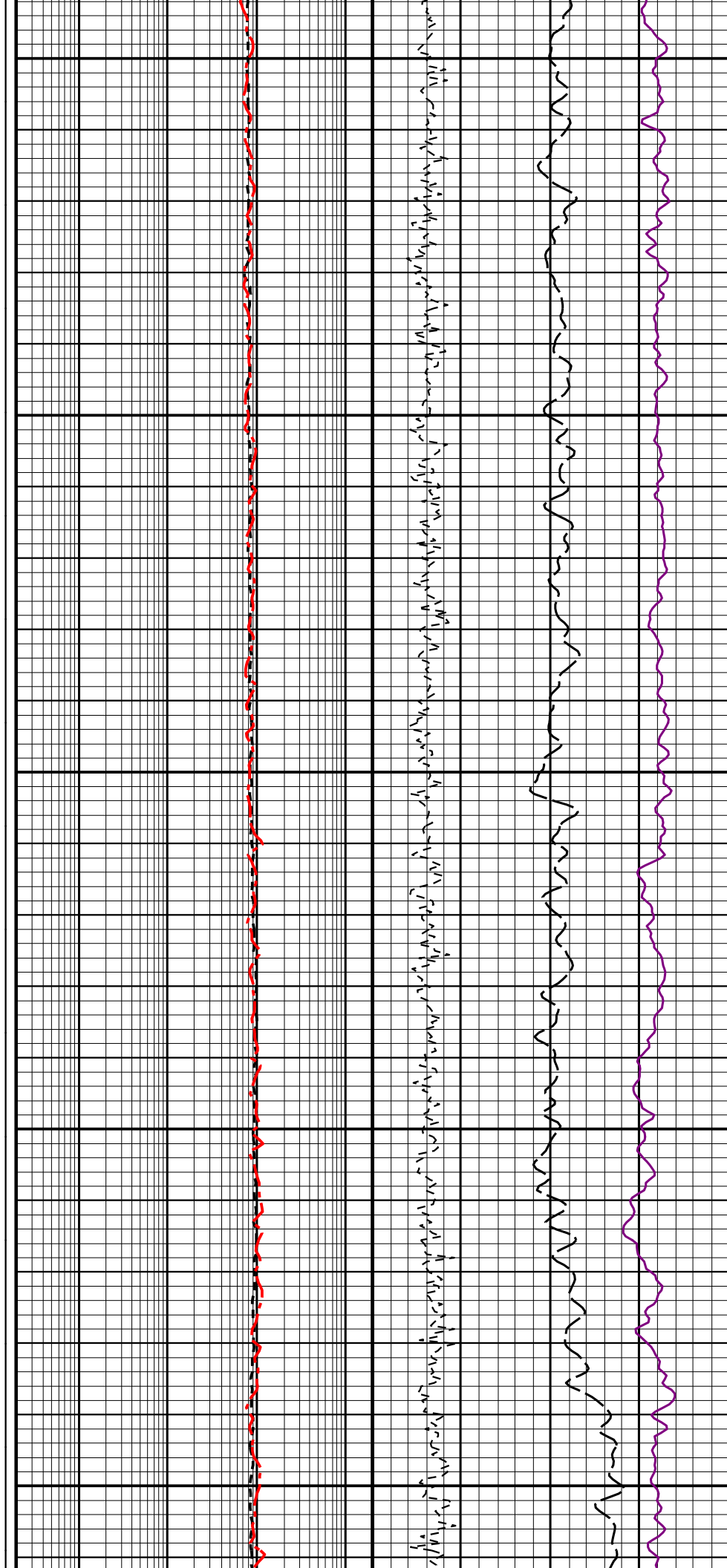
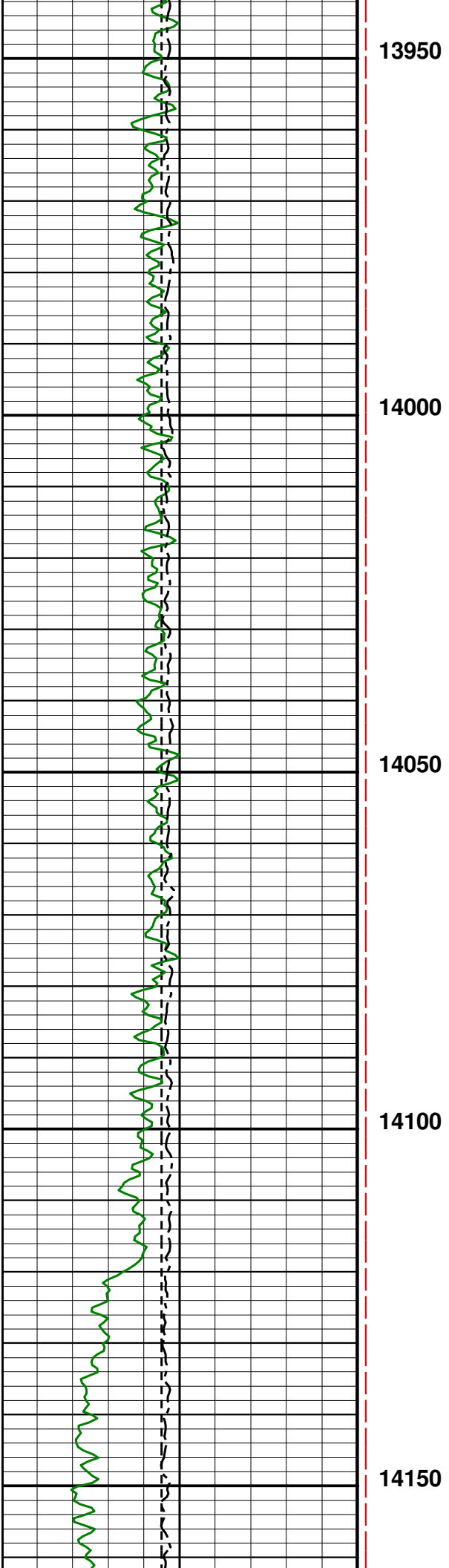


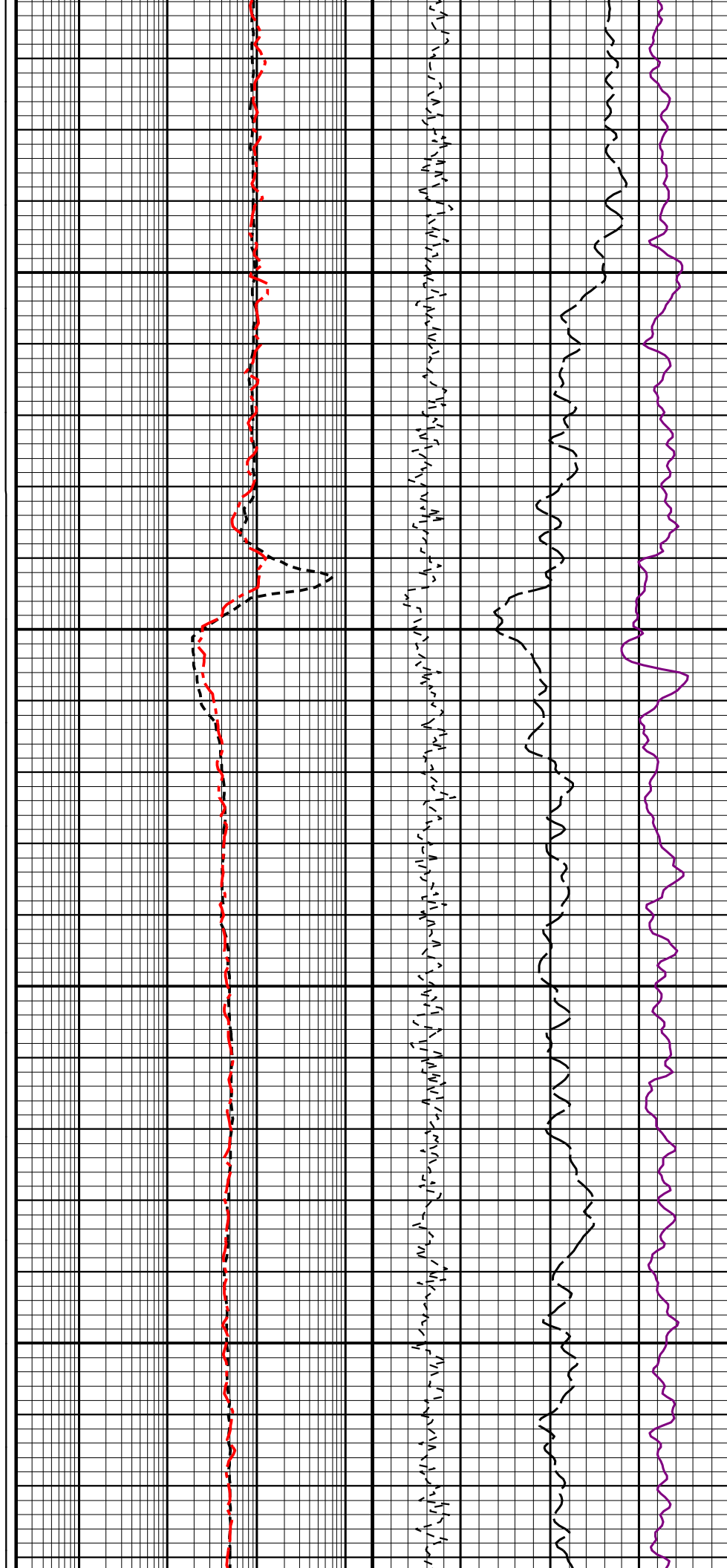
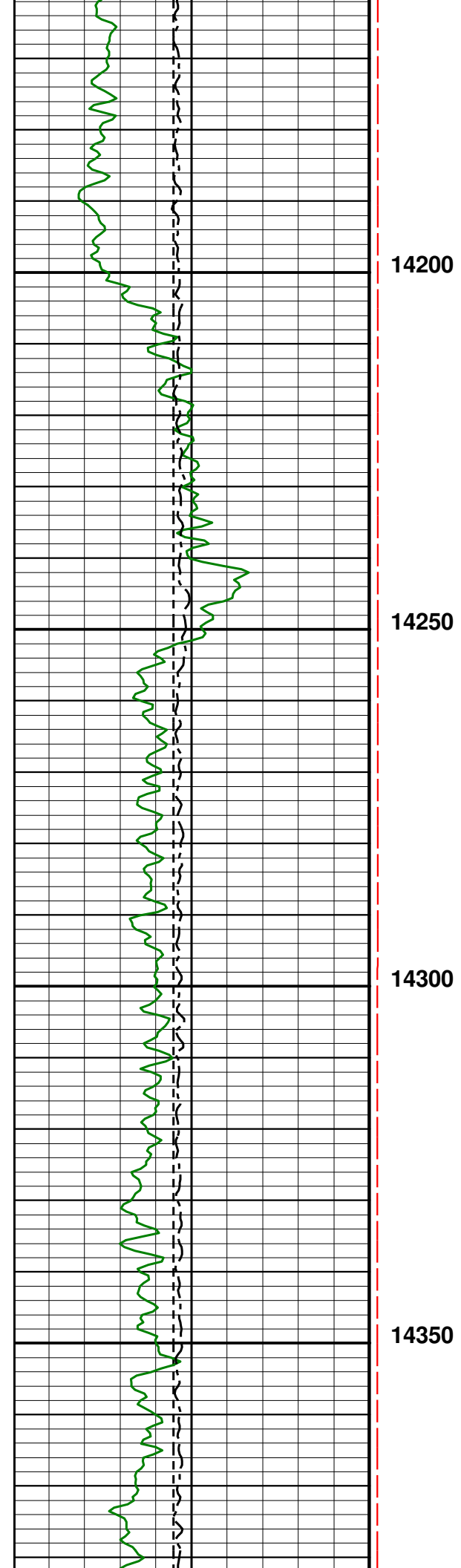


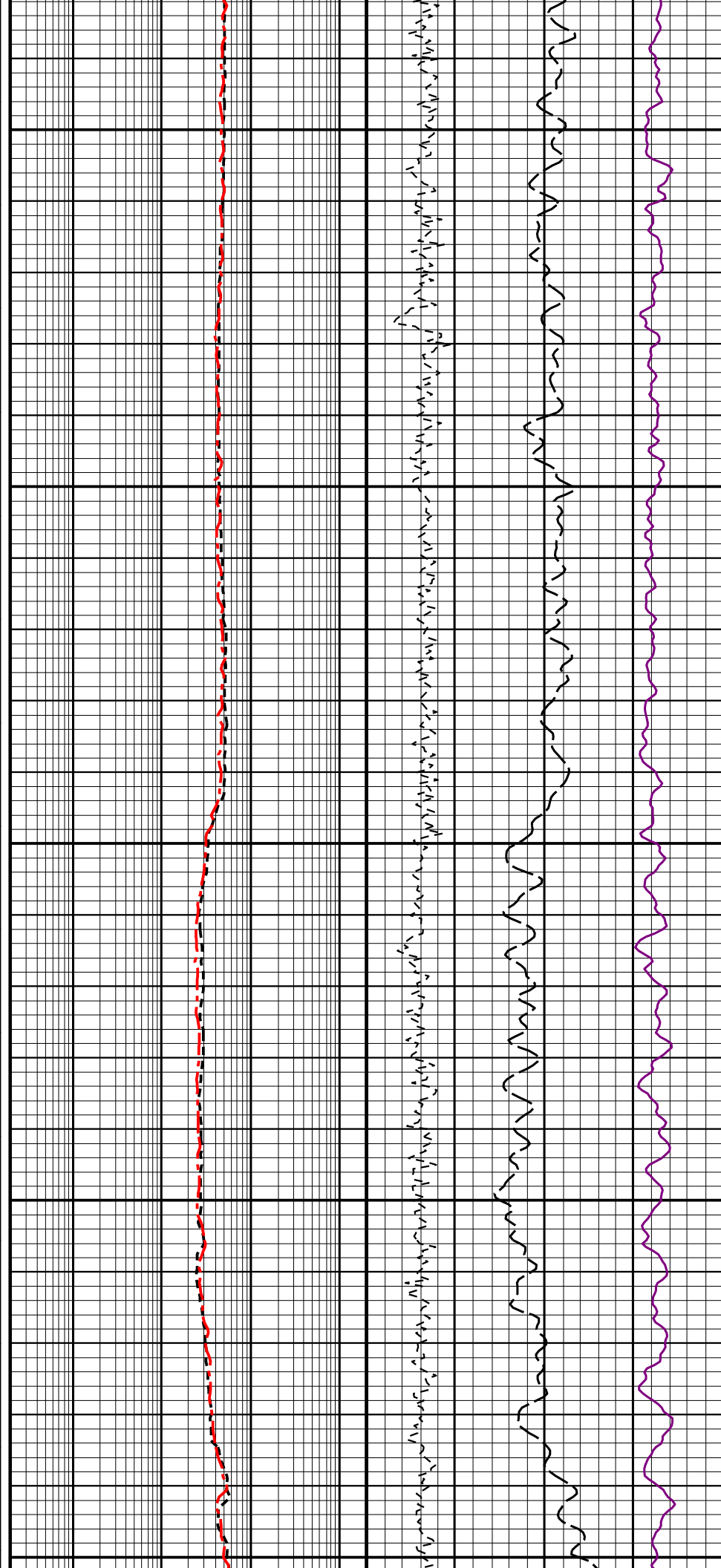
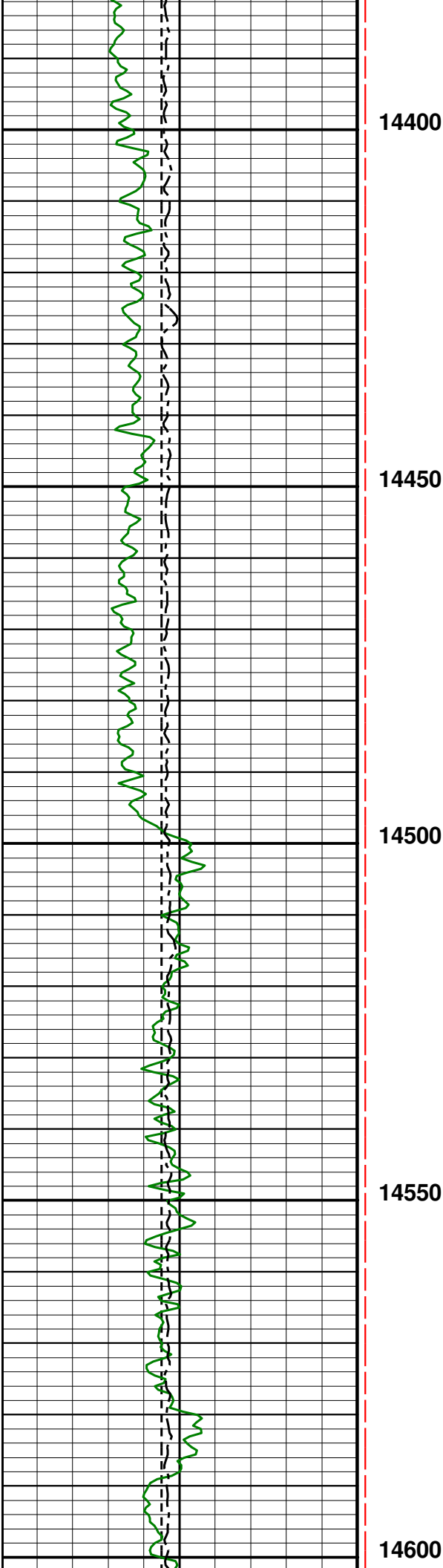


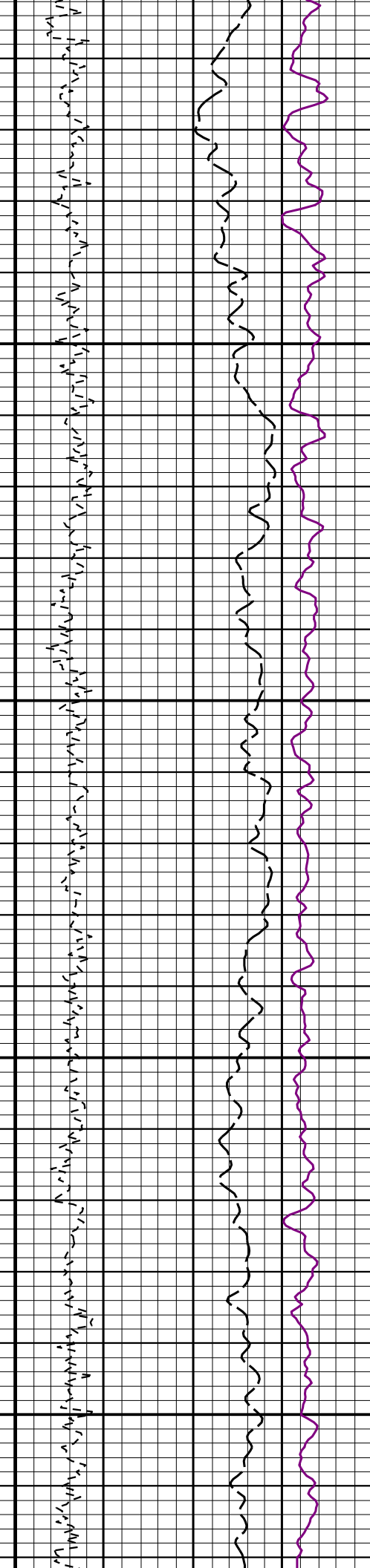
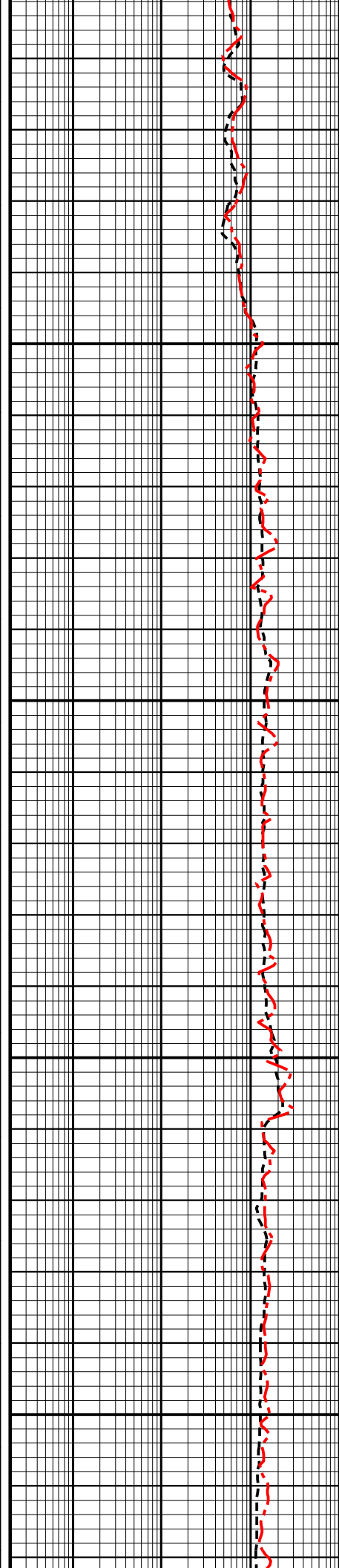
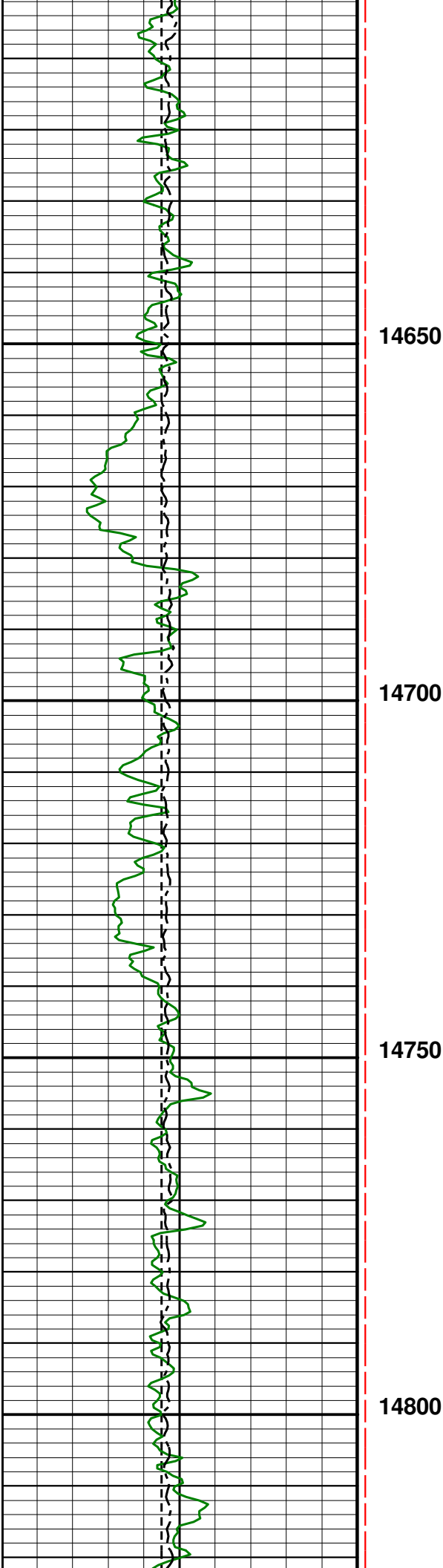


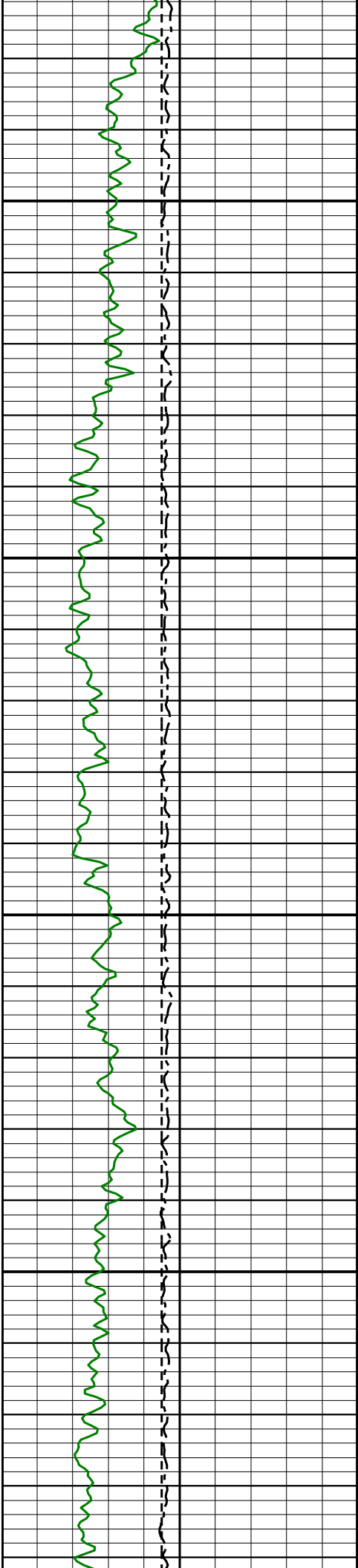










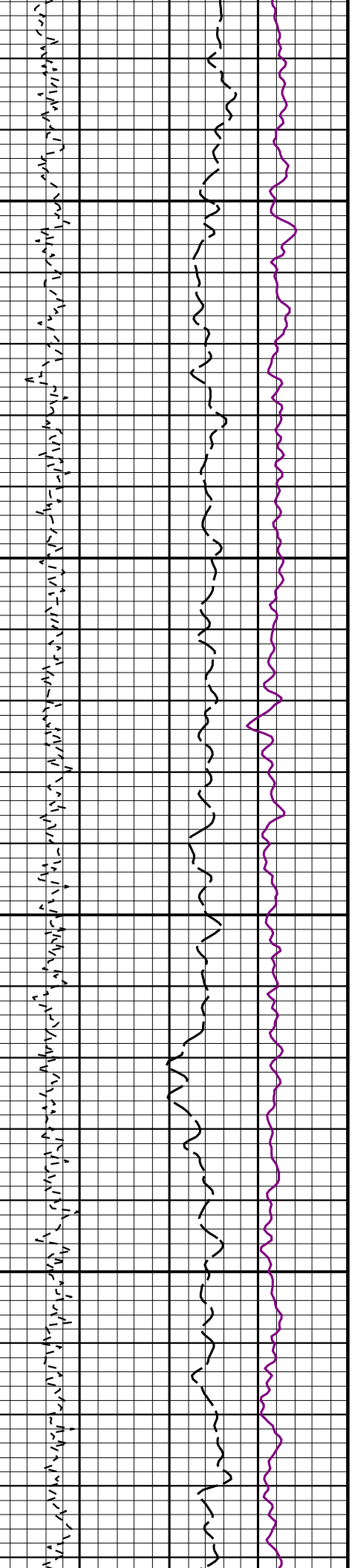
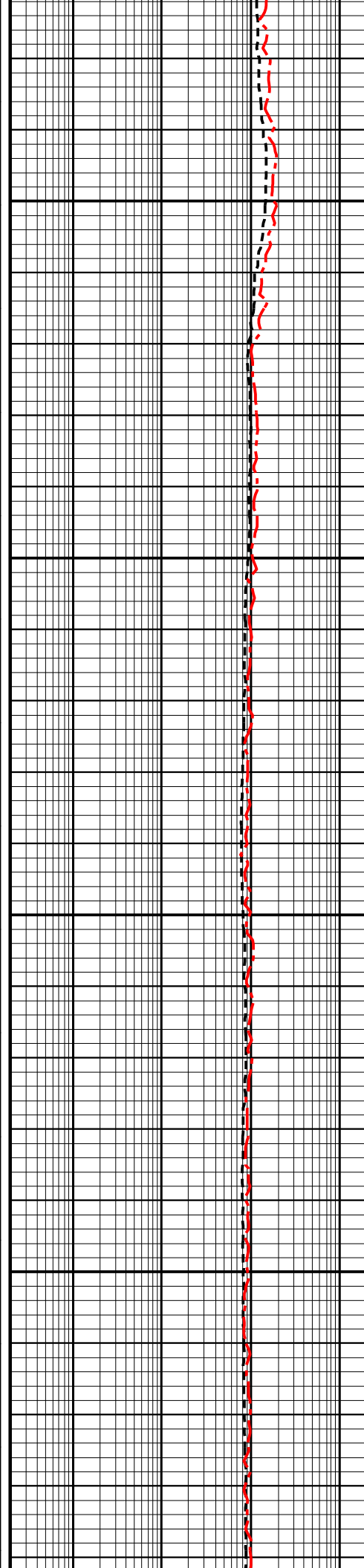


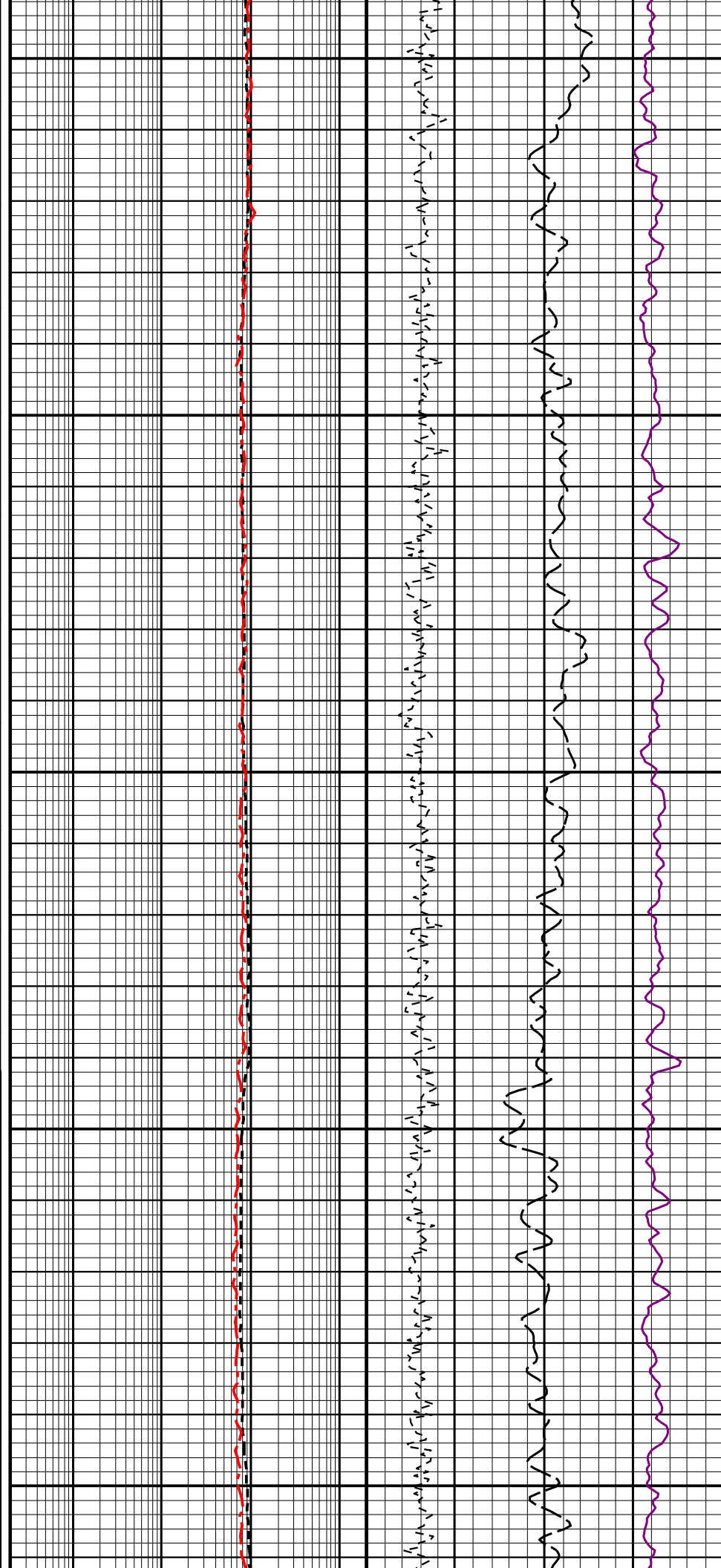
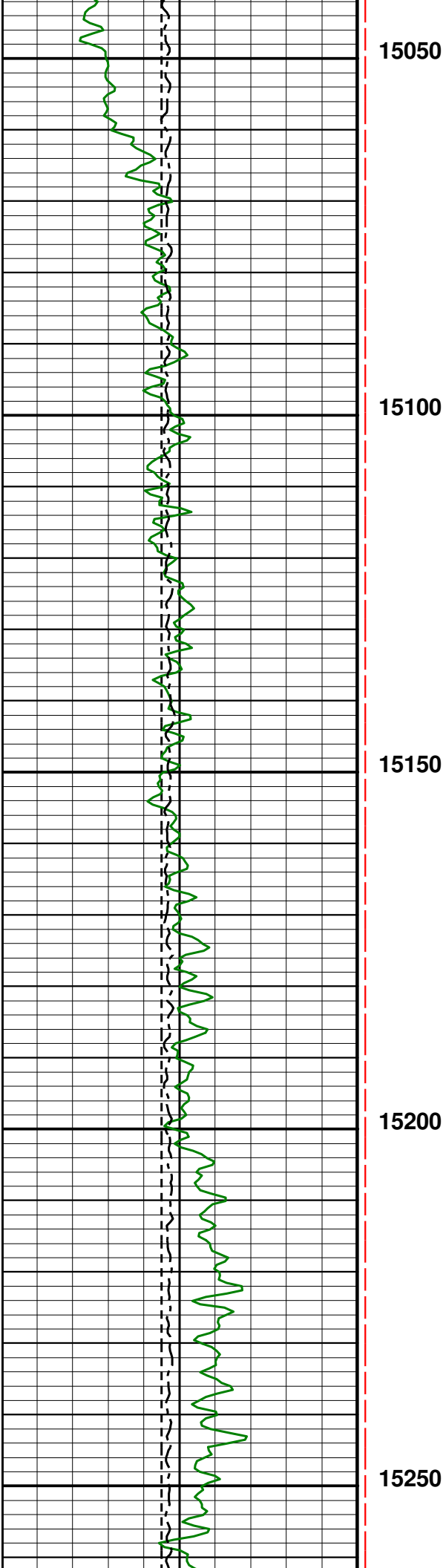
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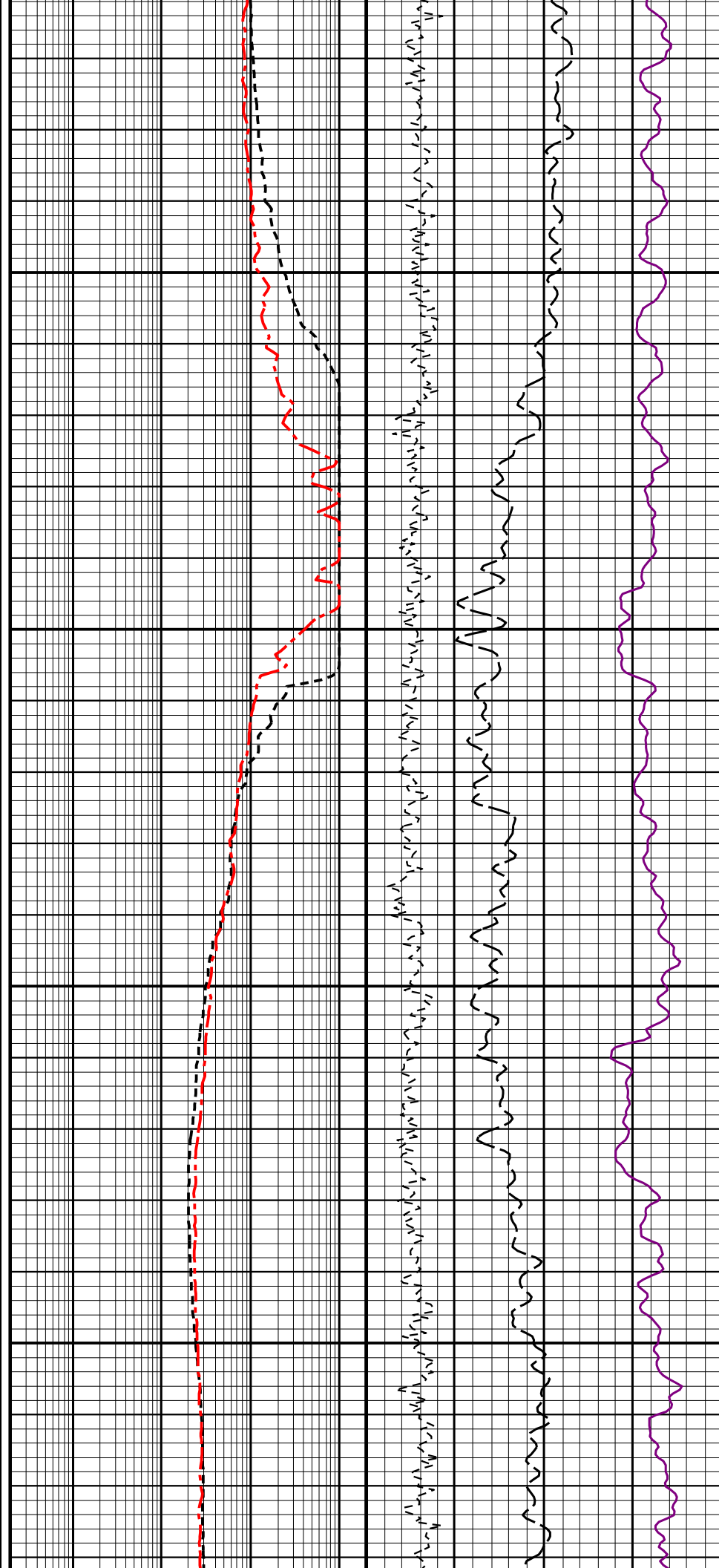
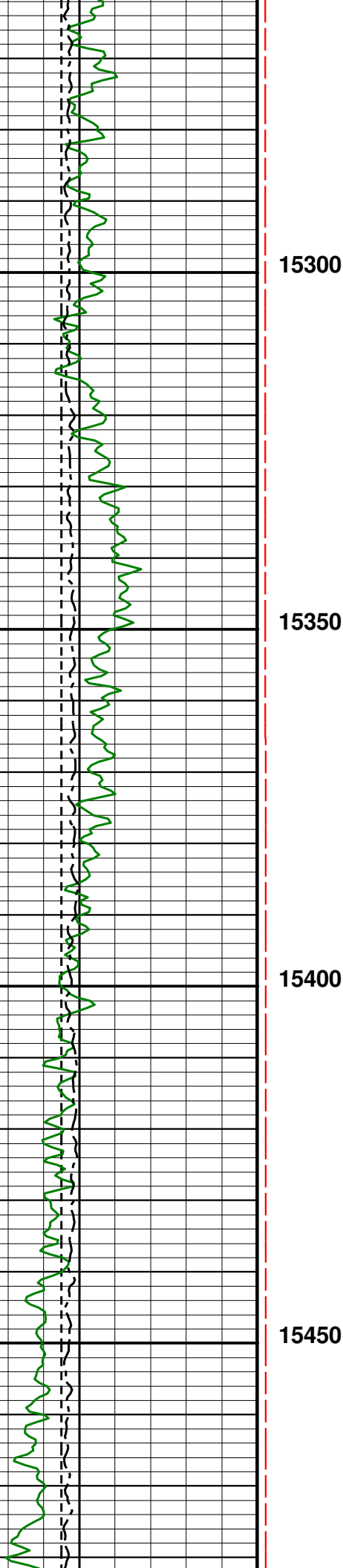
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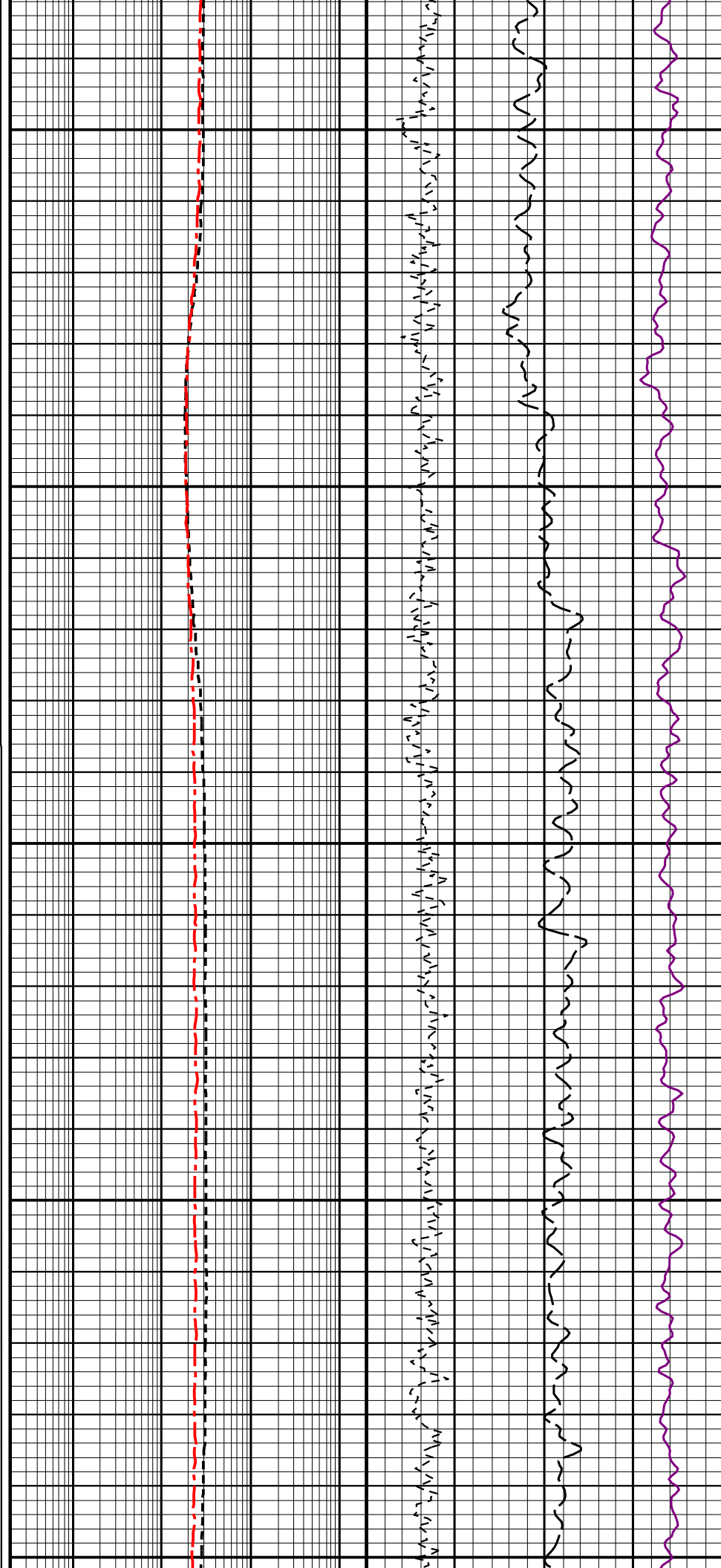
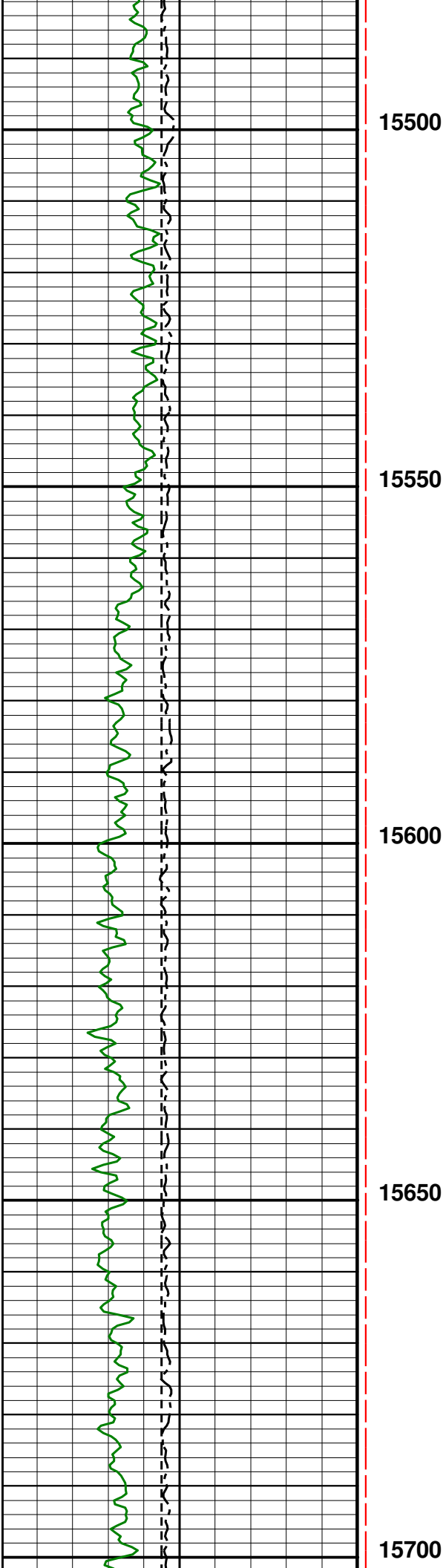
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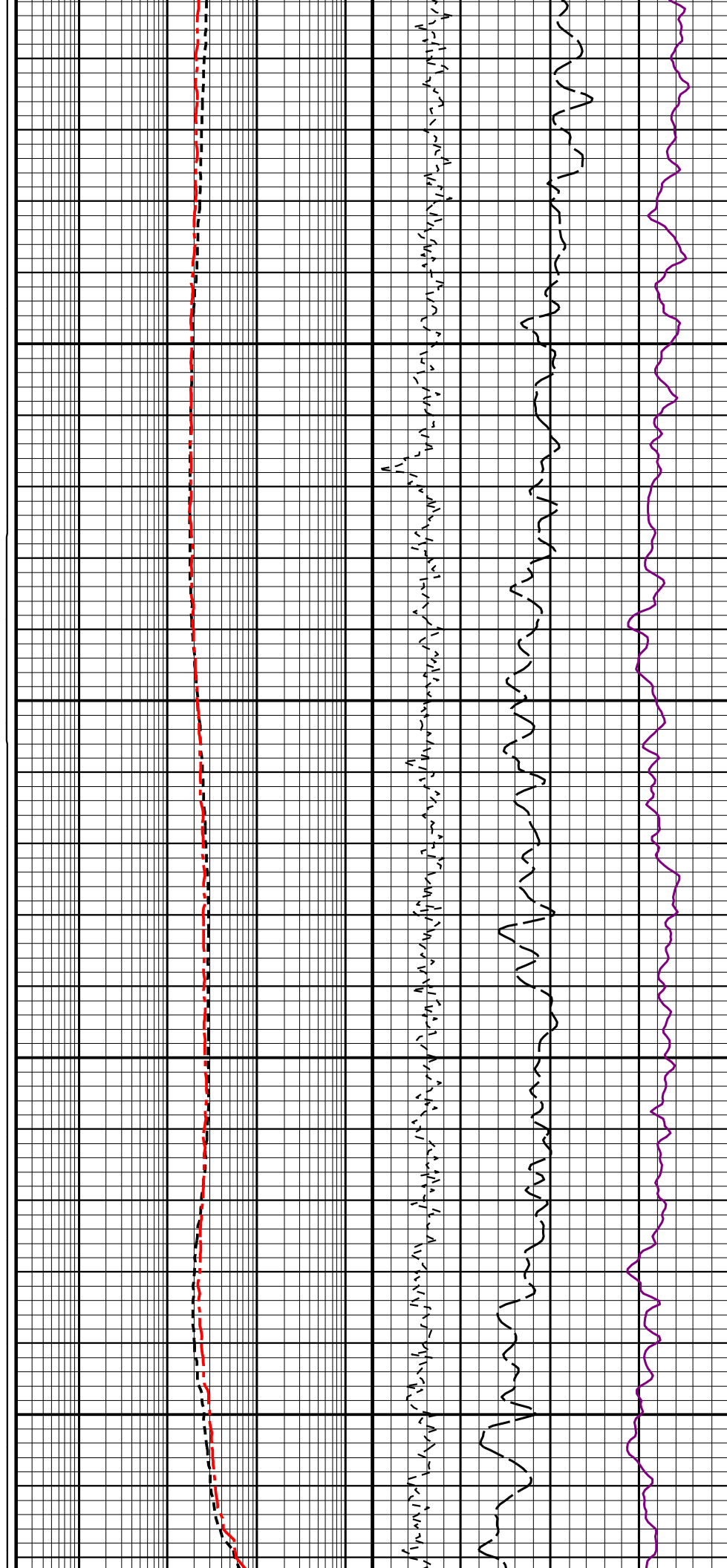
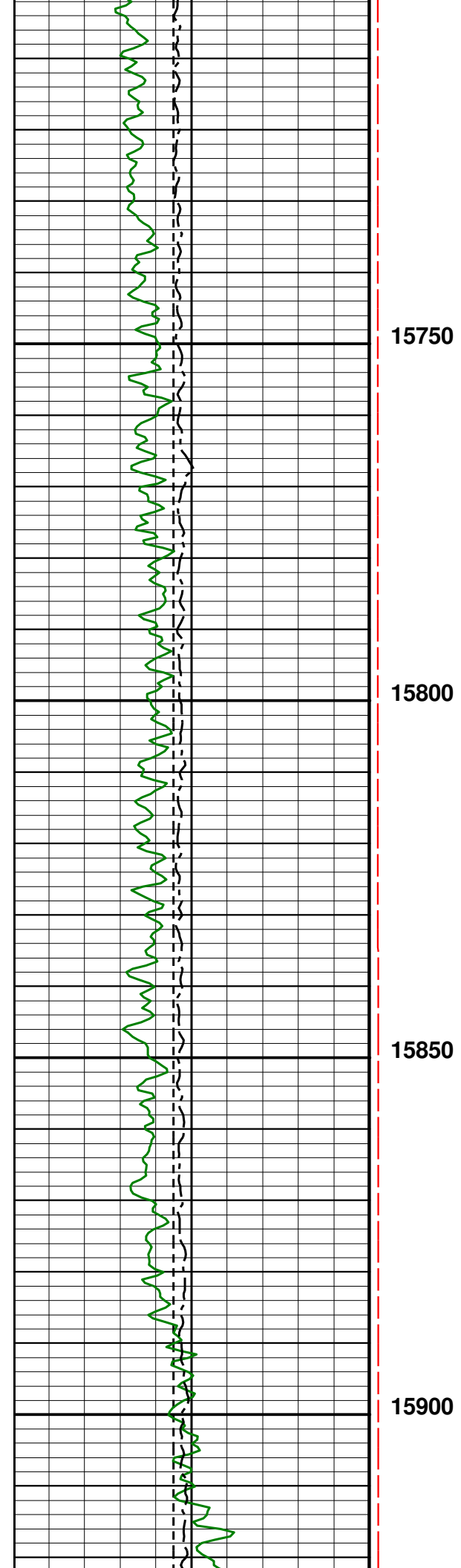
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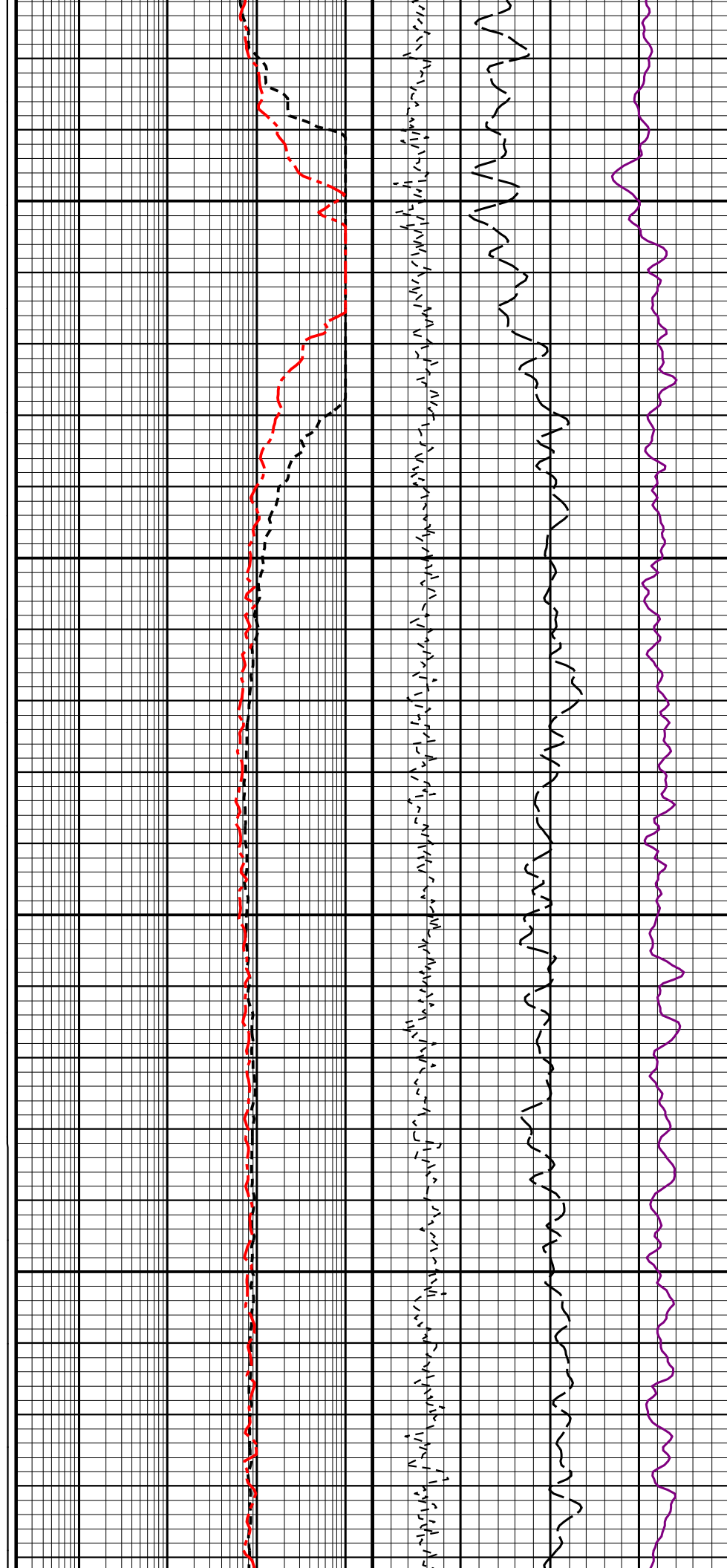
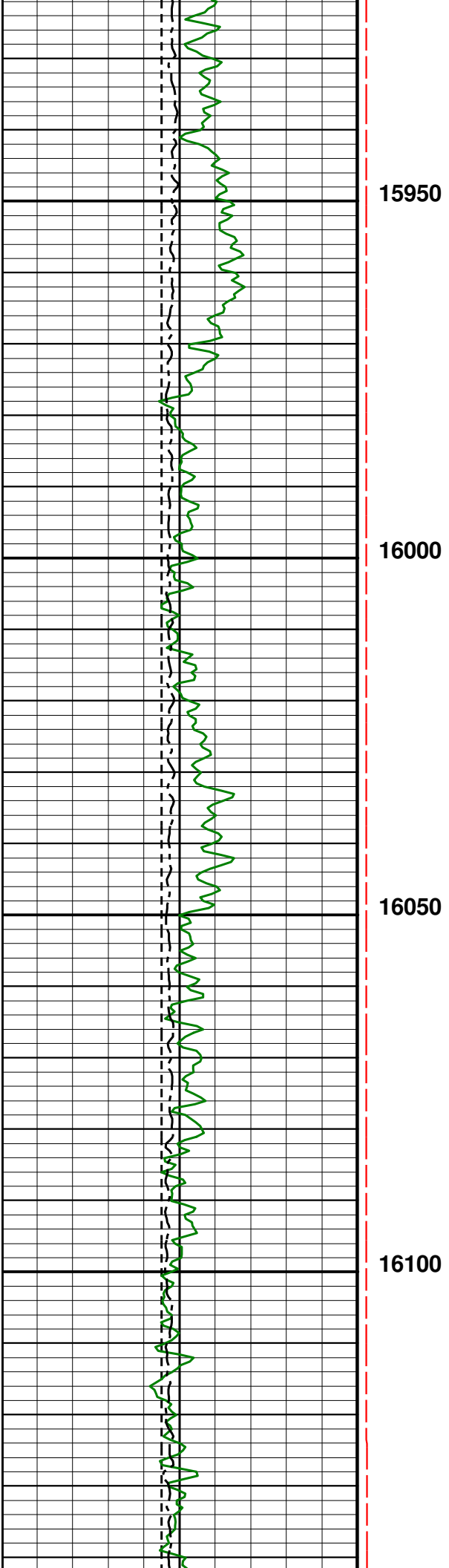


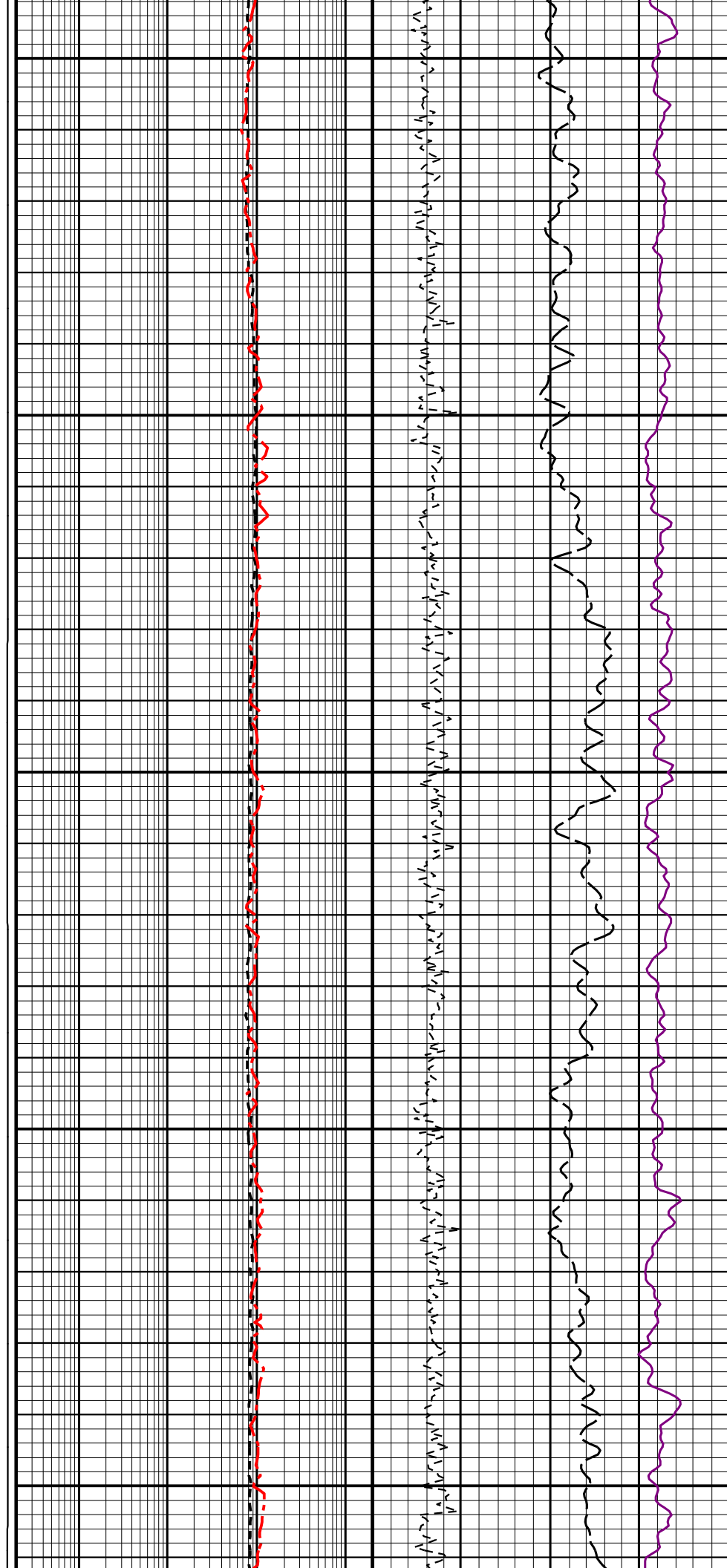
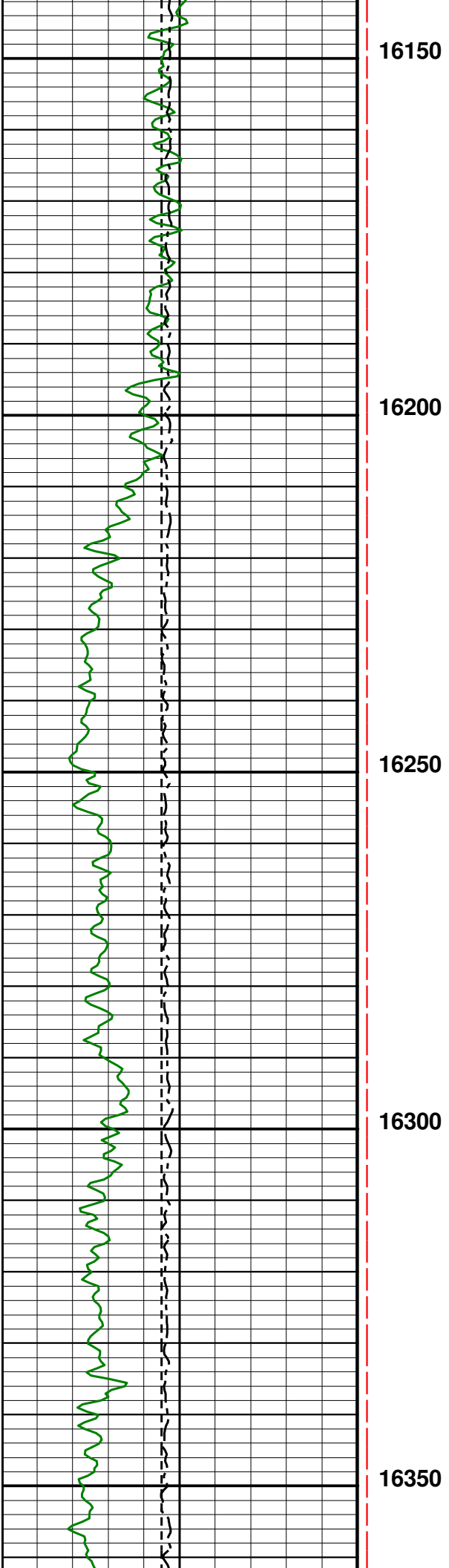


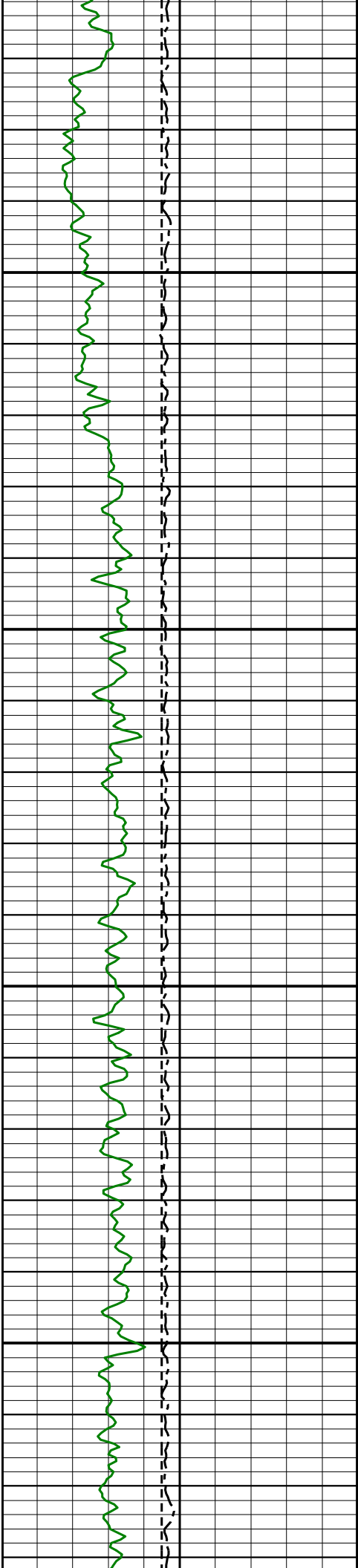










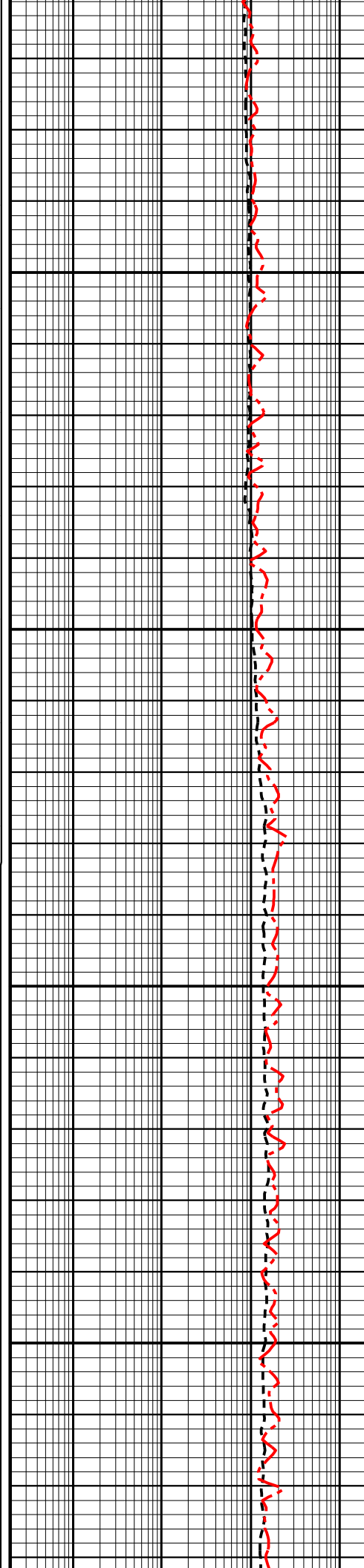


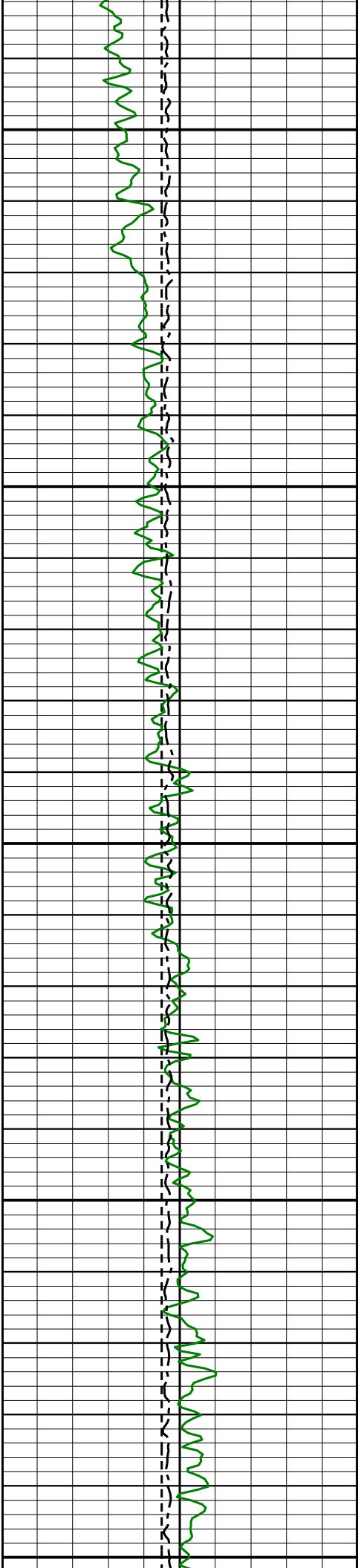
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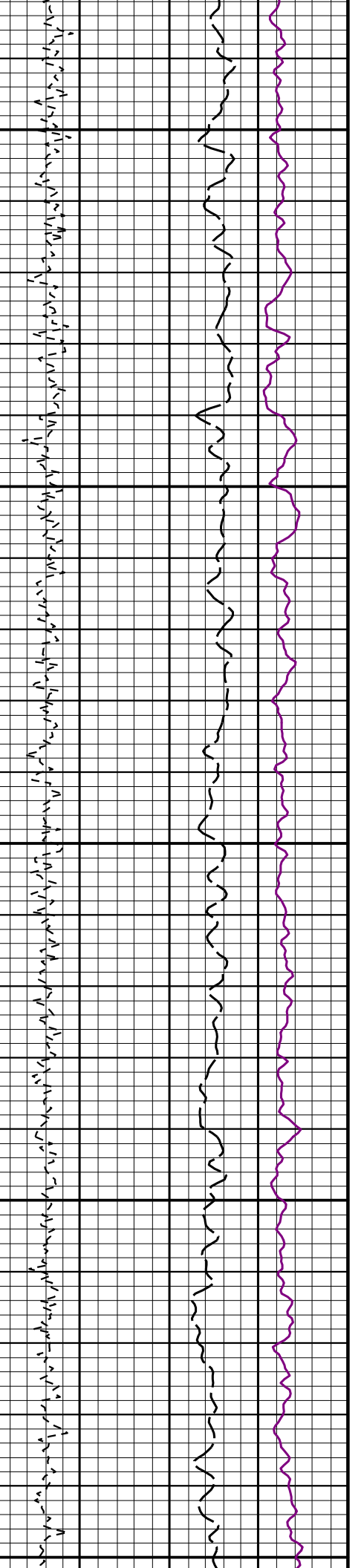
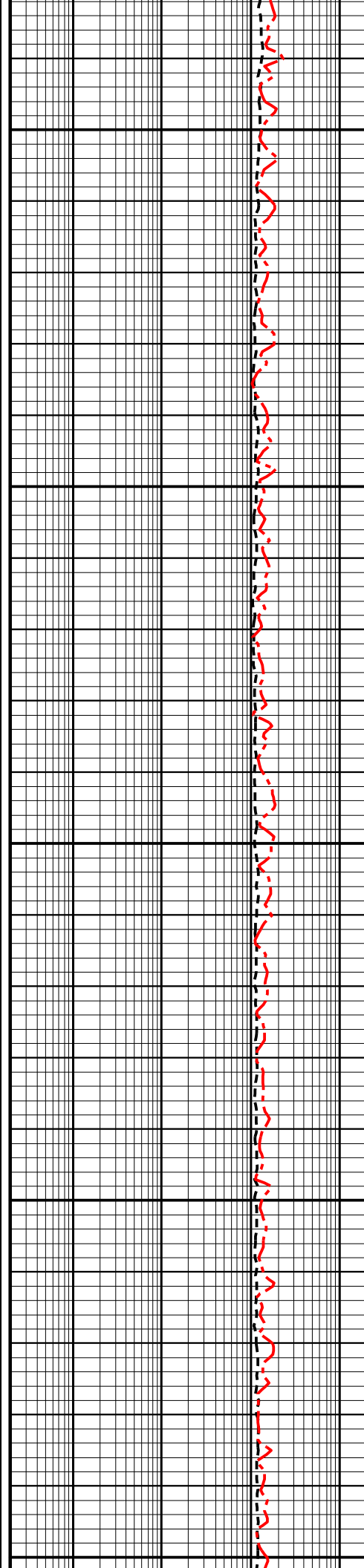
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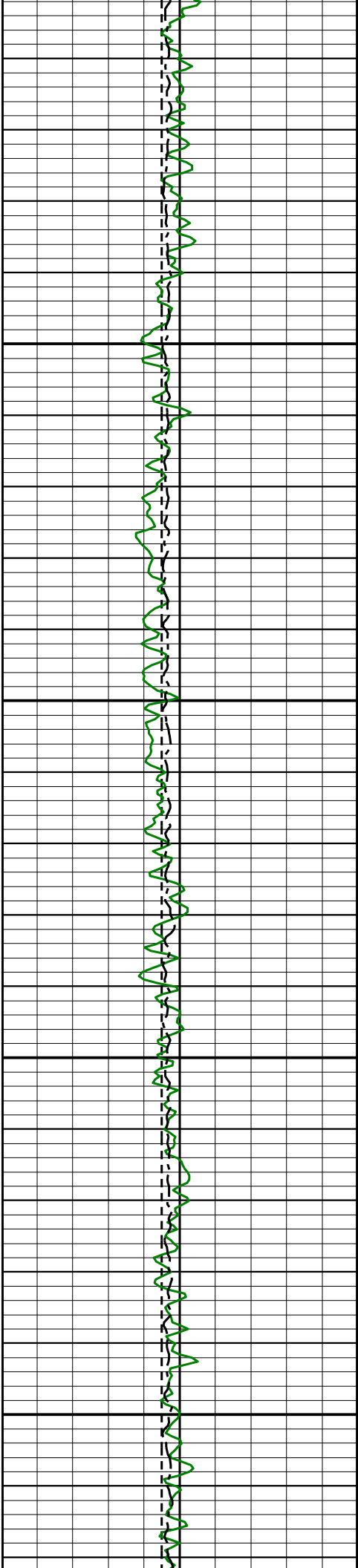
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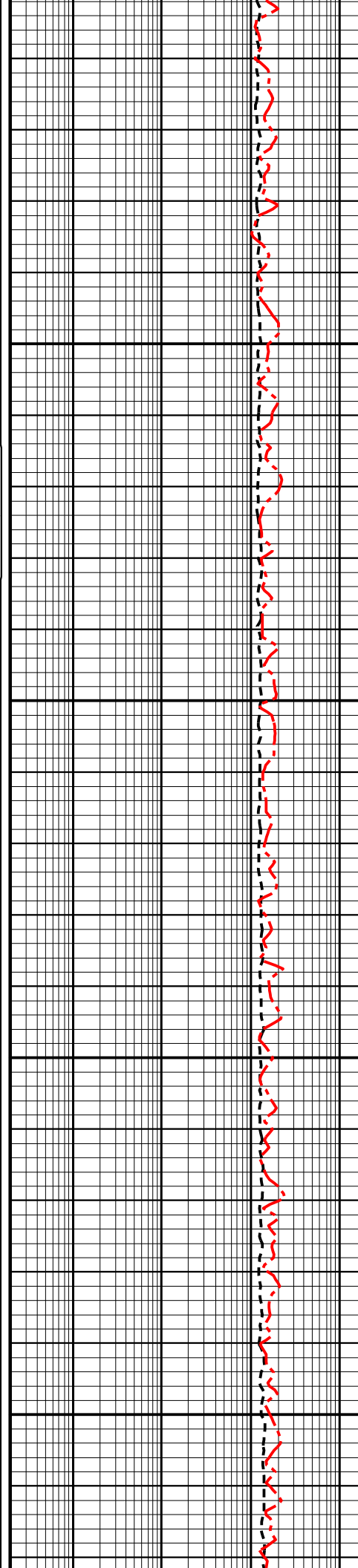


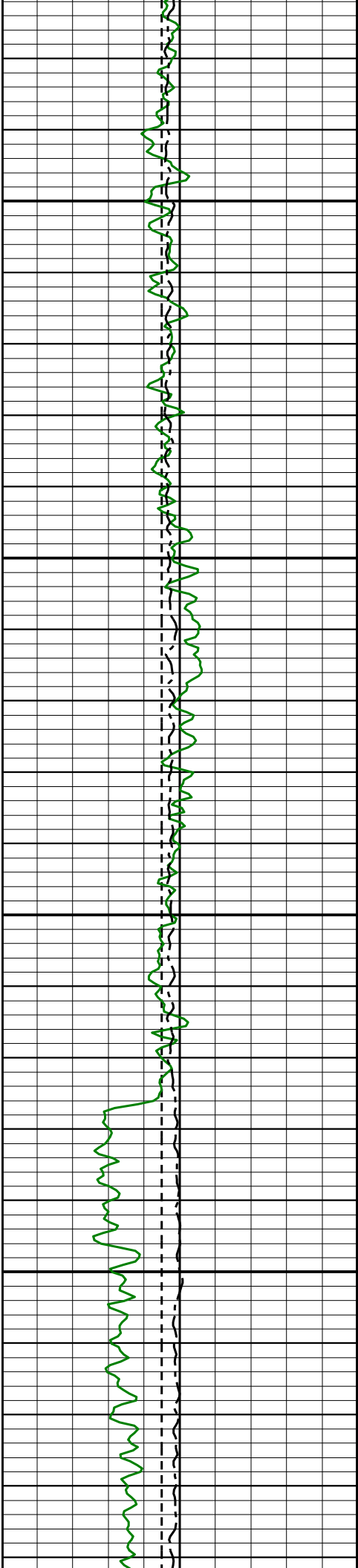
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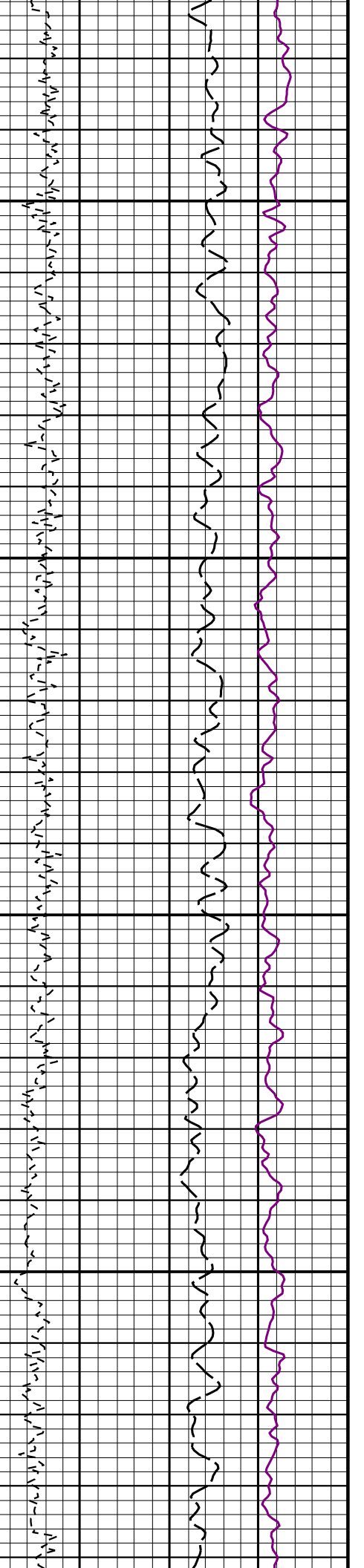
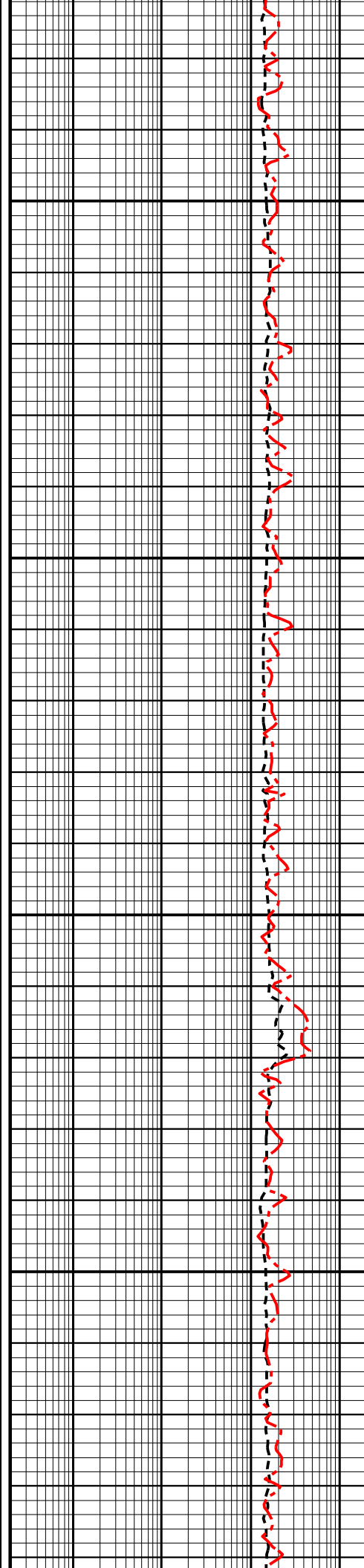


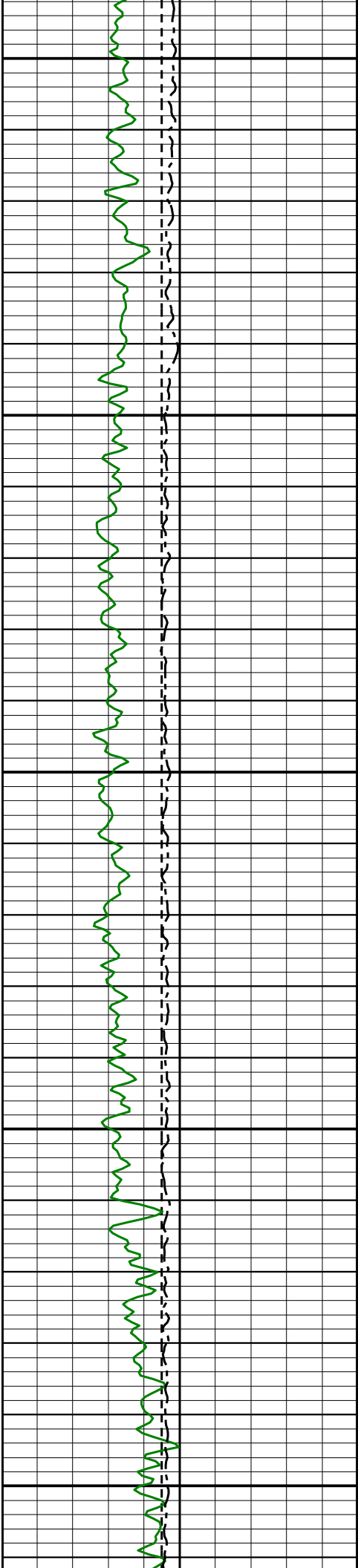
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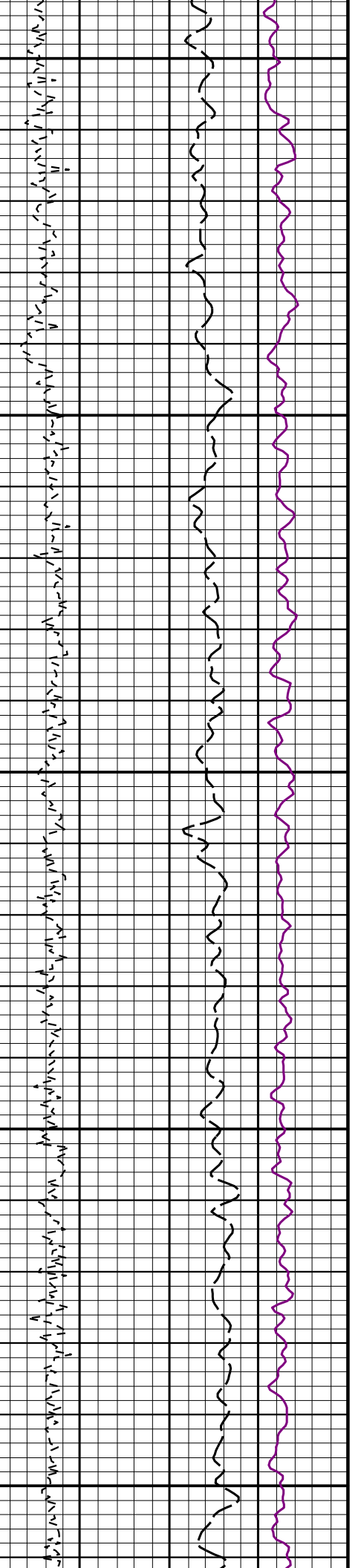
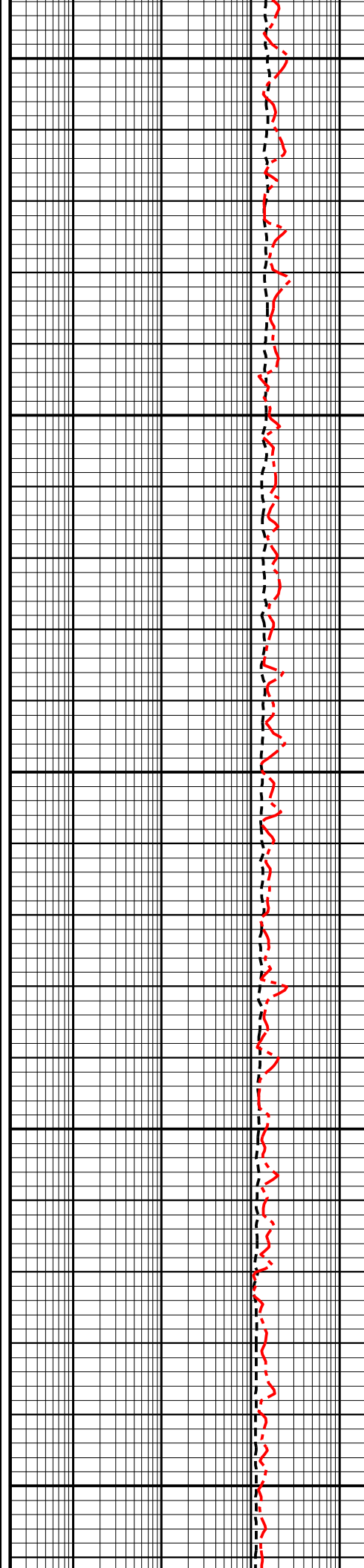
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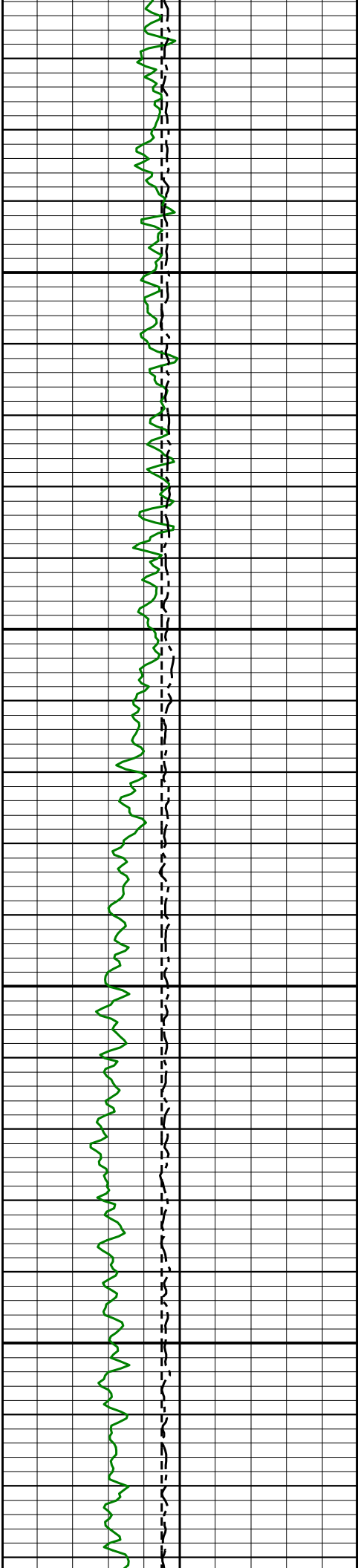
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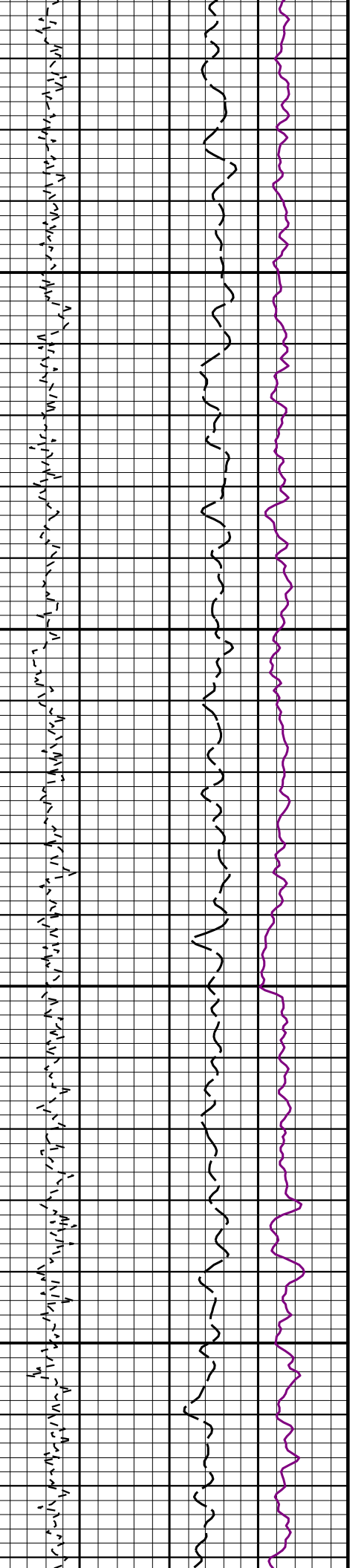
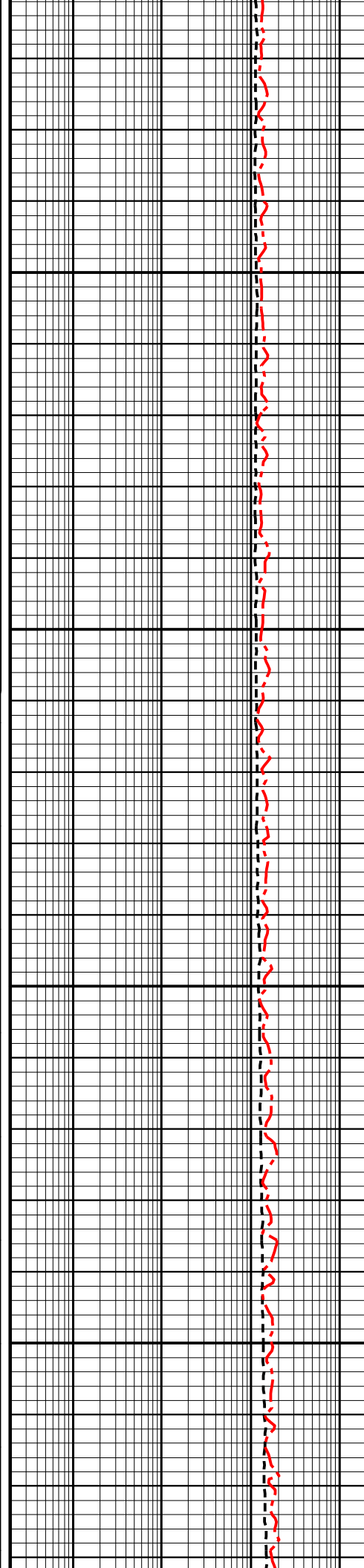


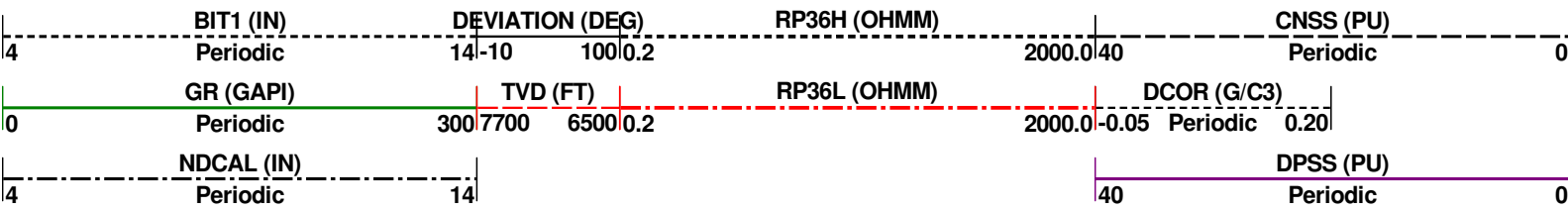
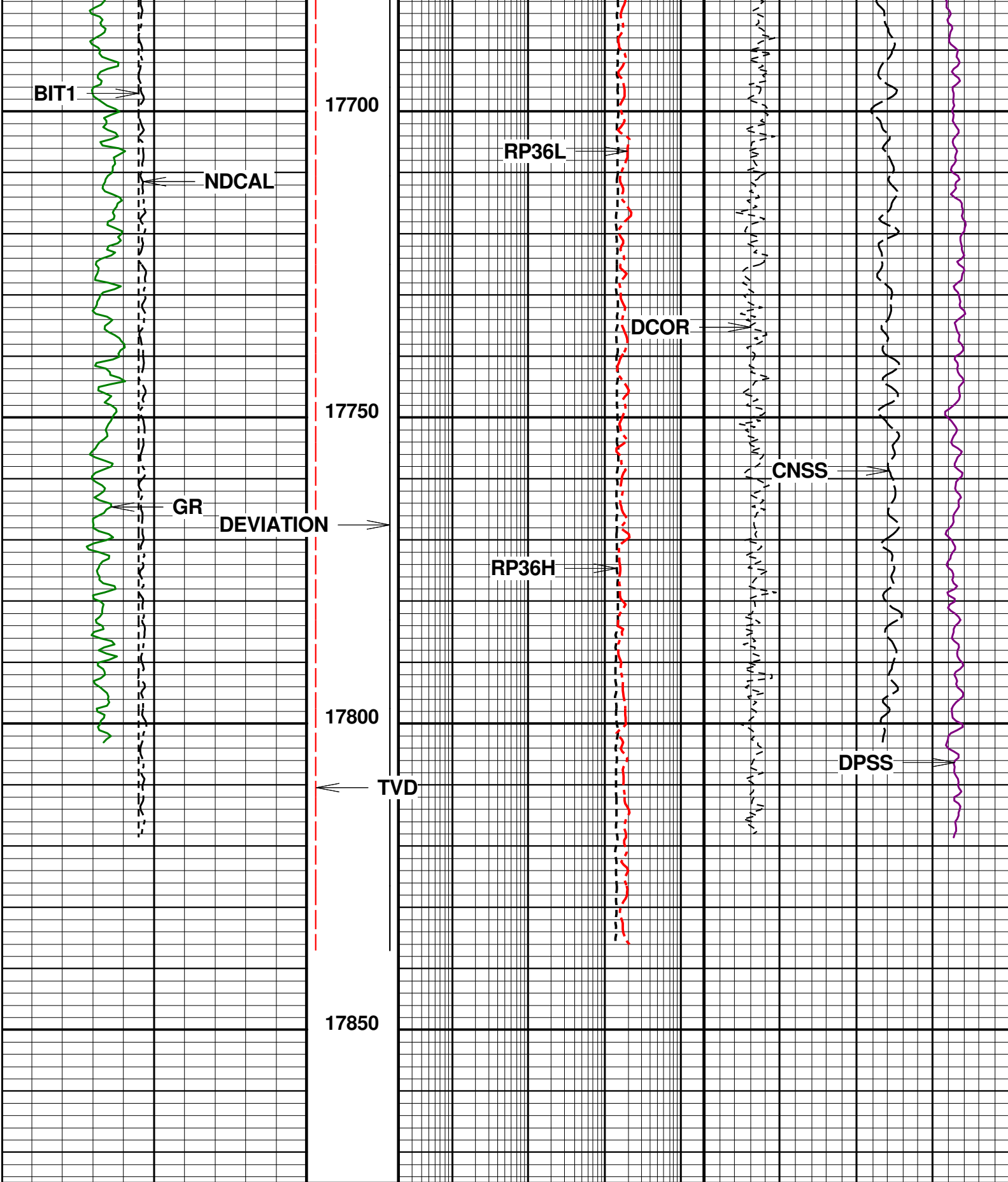
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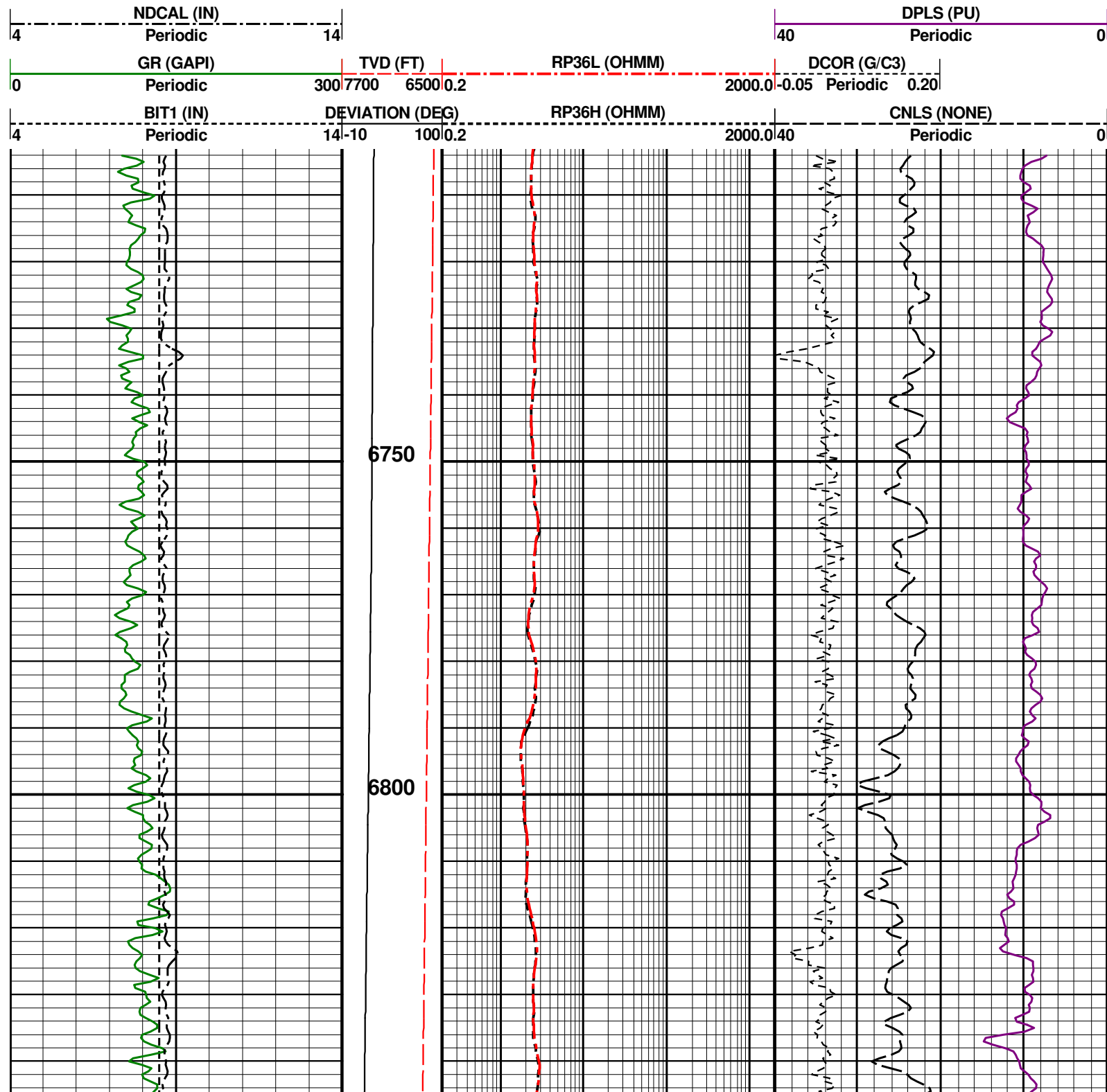


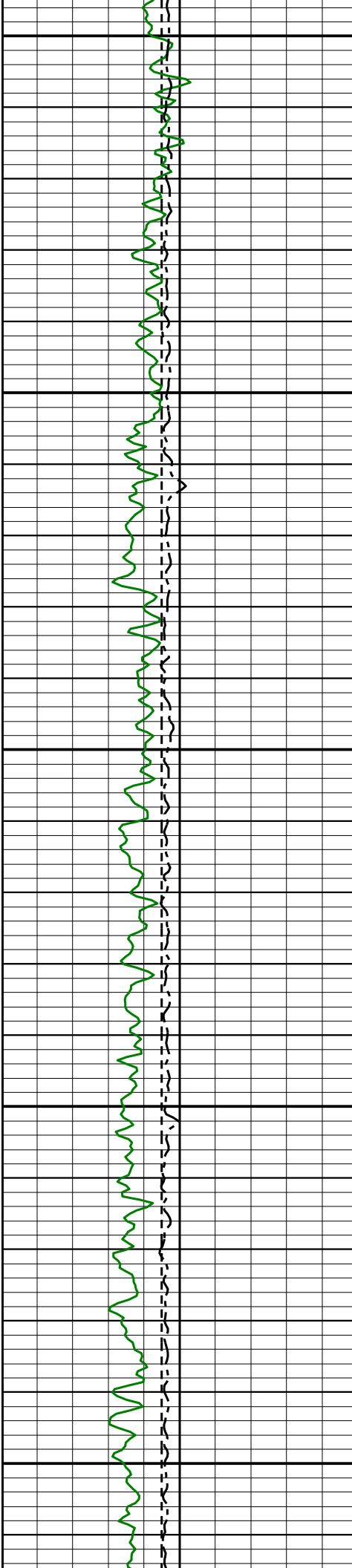


5" MAIN PASS LIMESTONE

Company : GREAT WESTERN OPERATING COMPANY
Well : SCHAEFER LD 13-033HN
Scale : 1 : 240
Depth in : Feet
Software : WinAPlot Ver. 5, 87, 2, 0

Date : 08-FEB-2019
Time :
Remarks : LIMESTONE MATRIX
File Name : 812_05-001-10253_MAIN MD





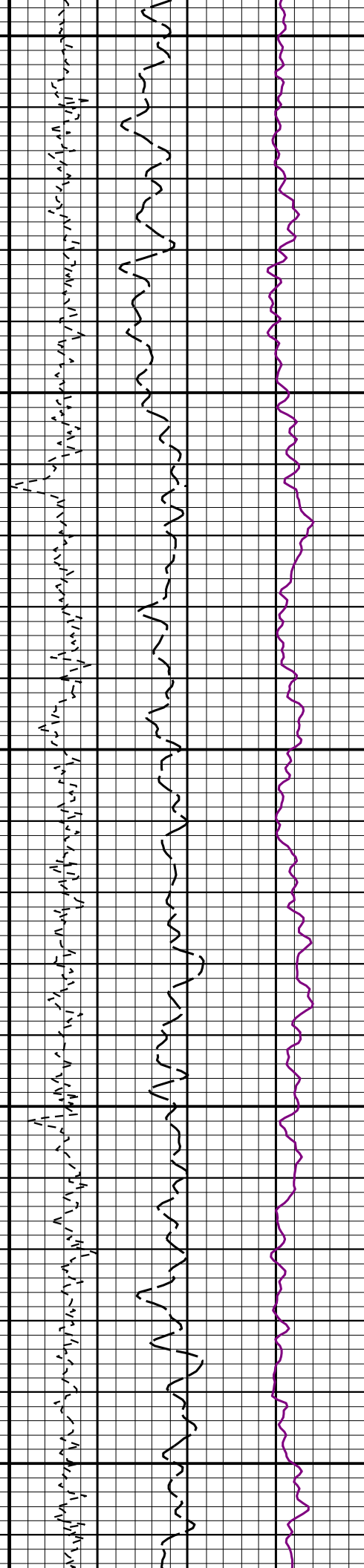
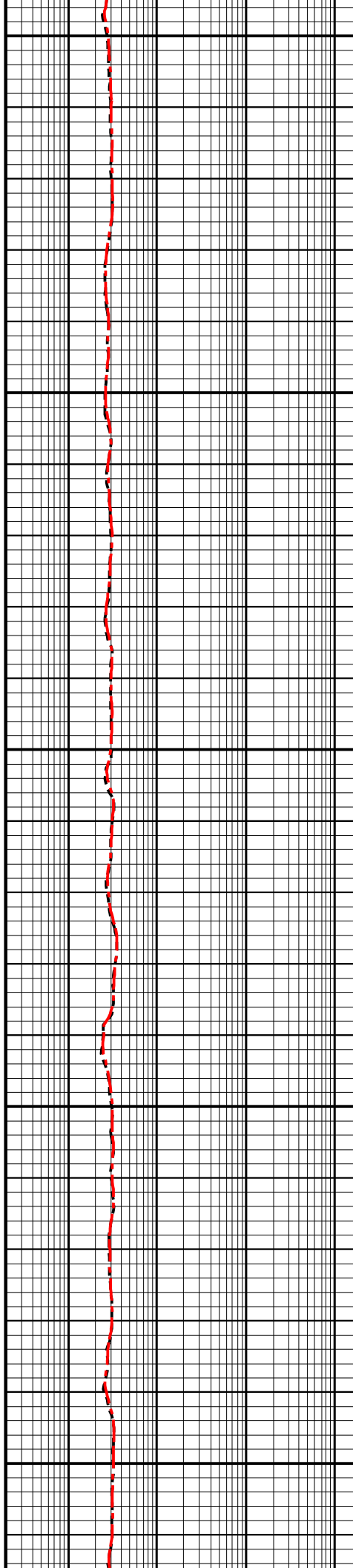
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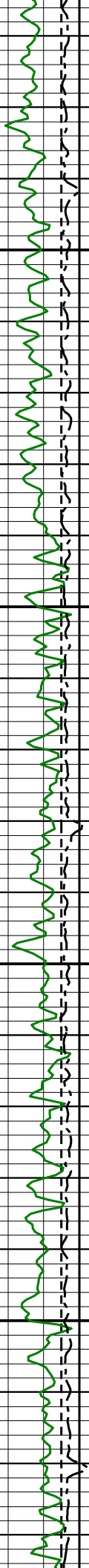
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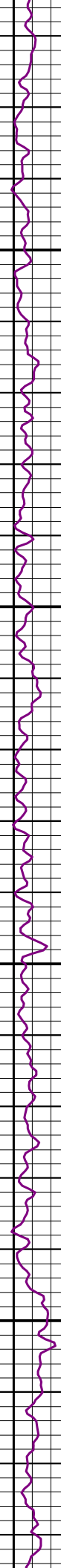
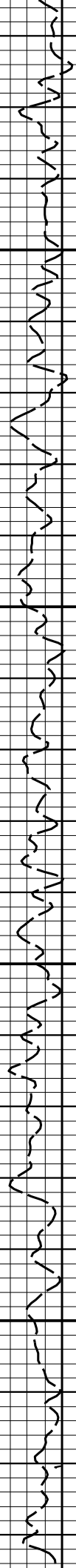
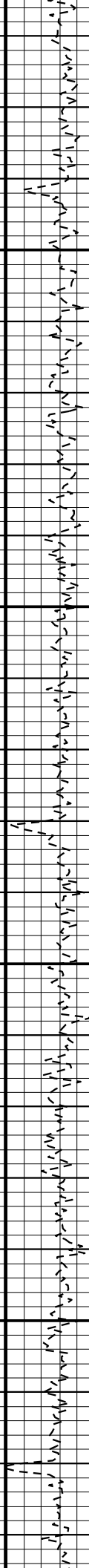
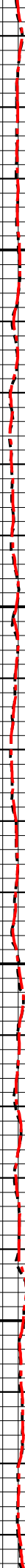


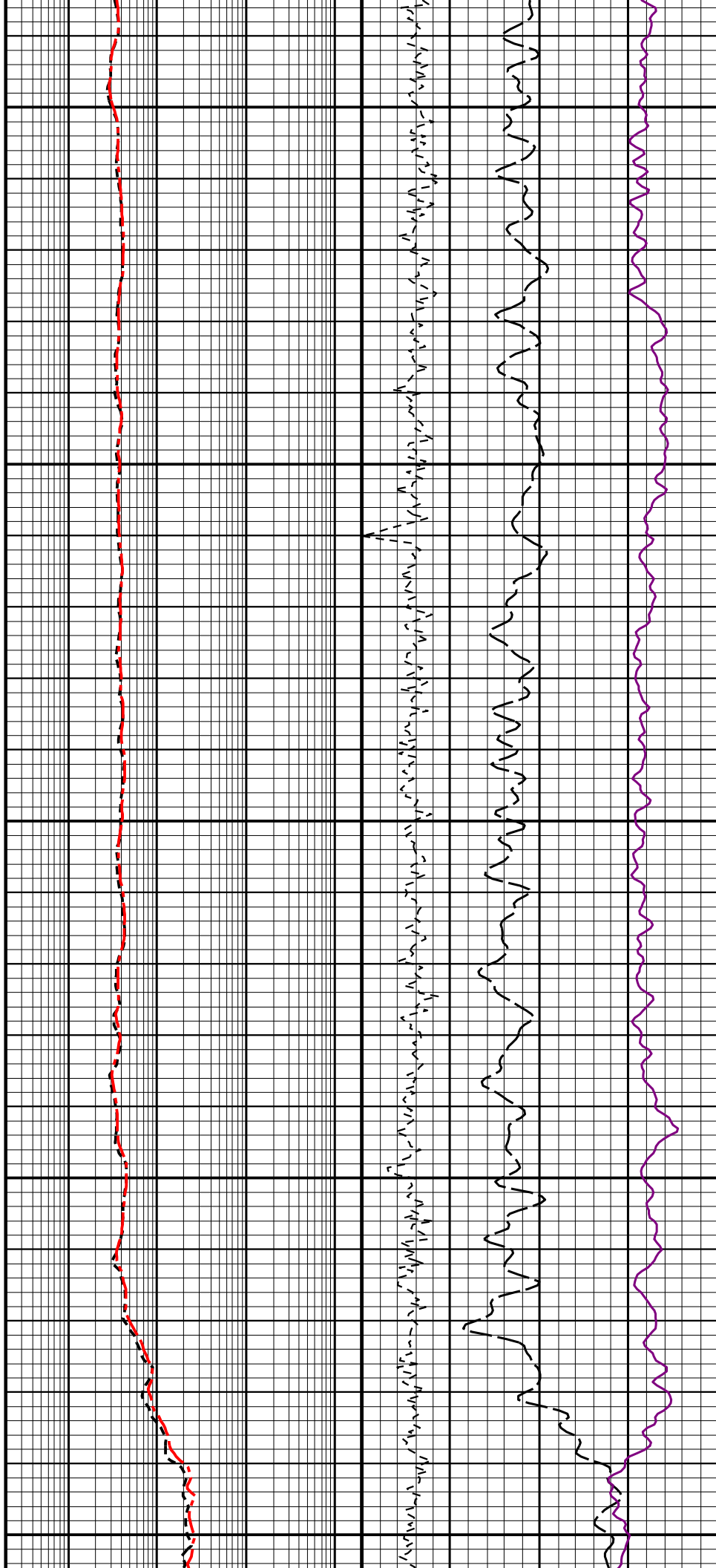
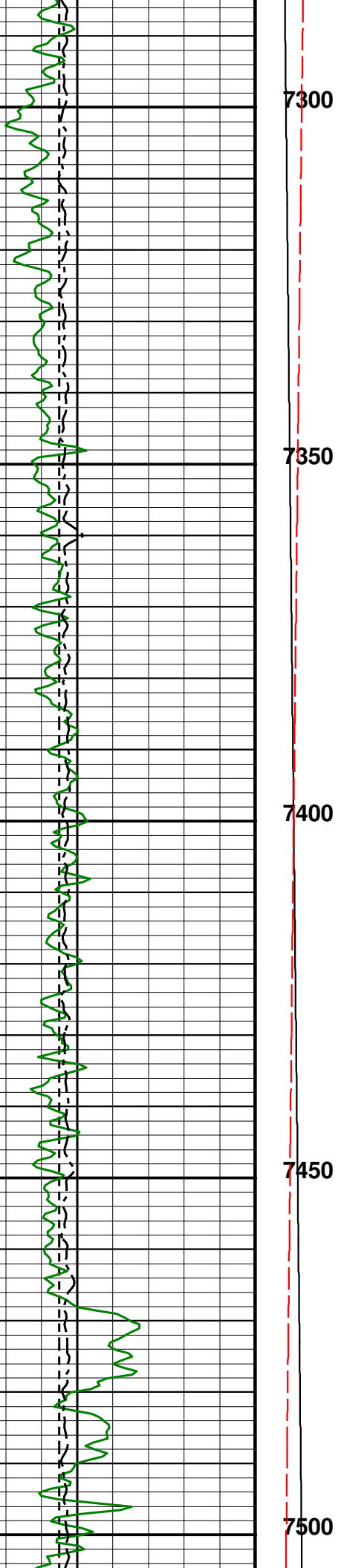
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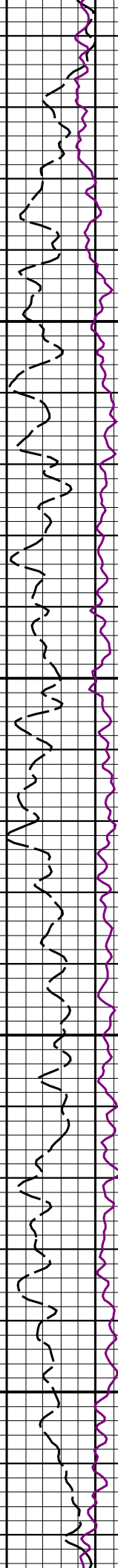
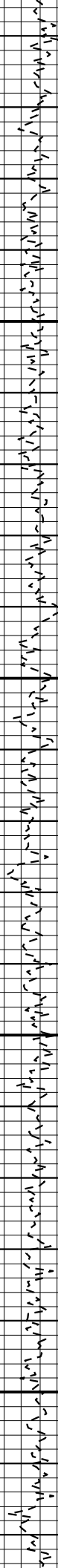
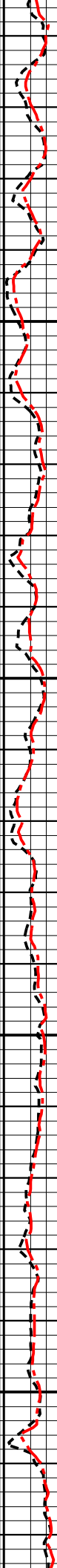


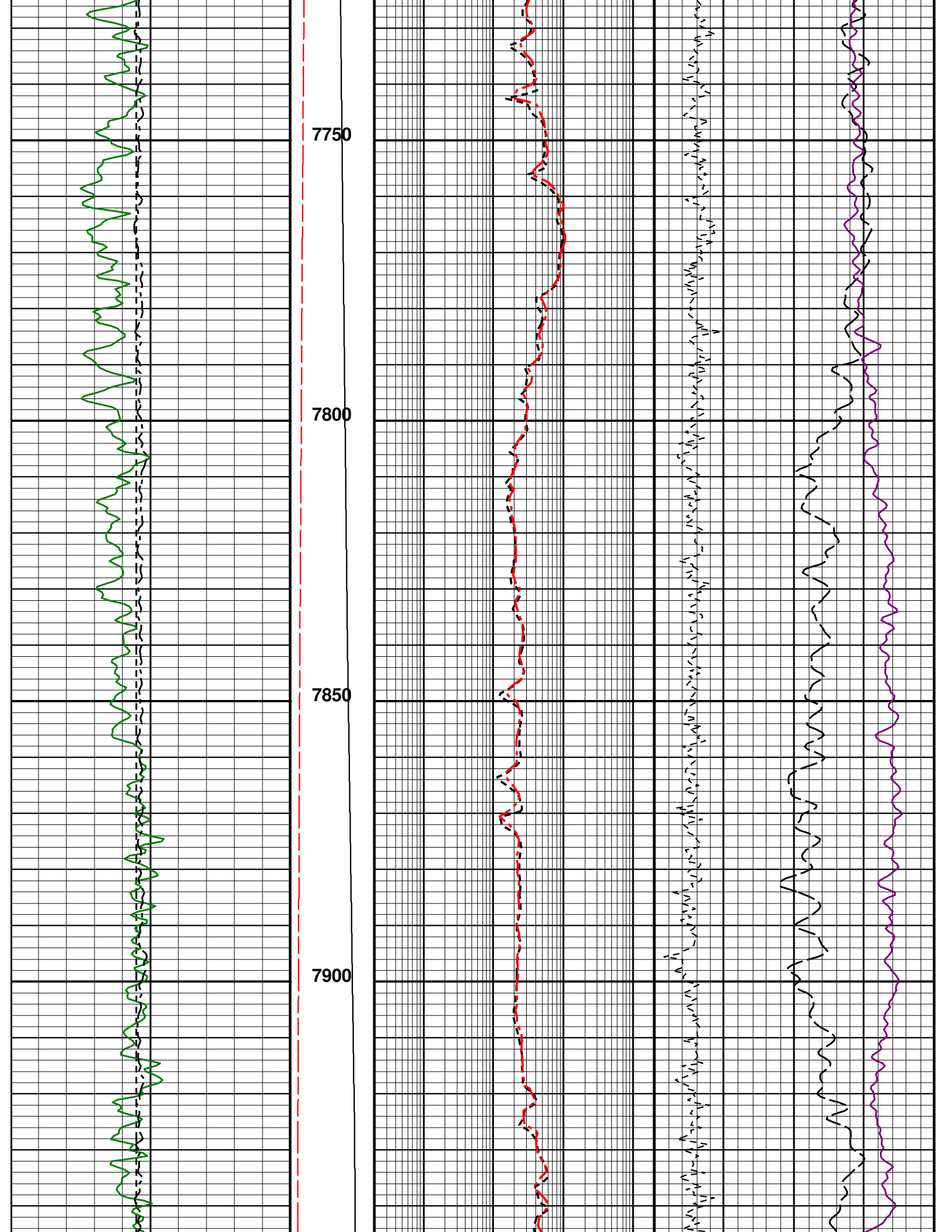
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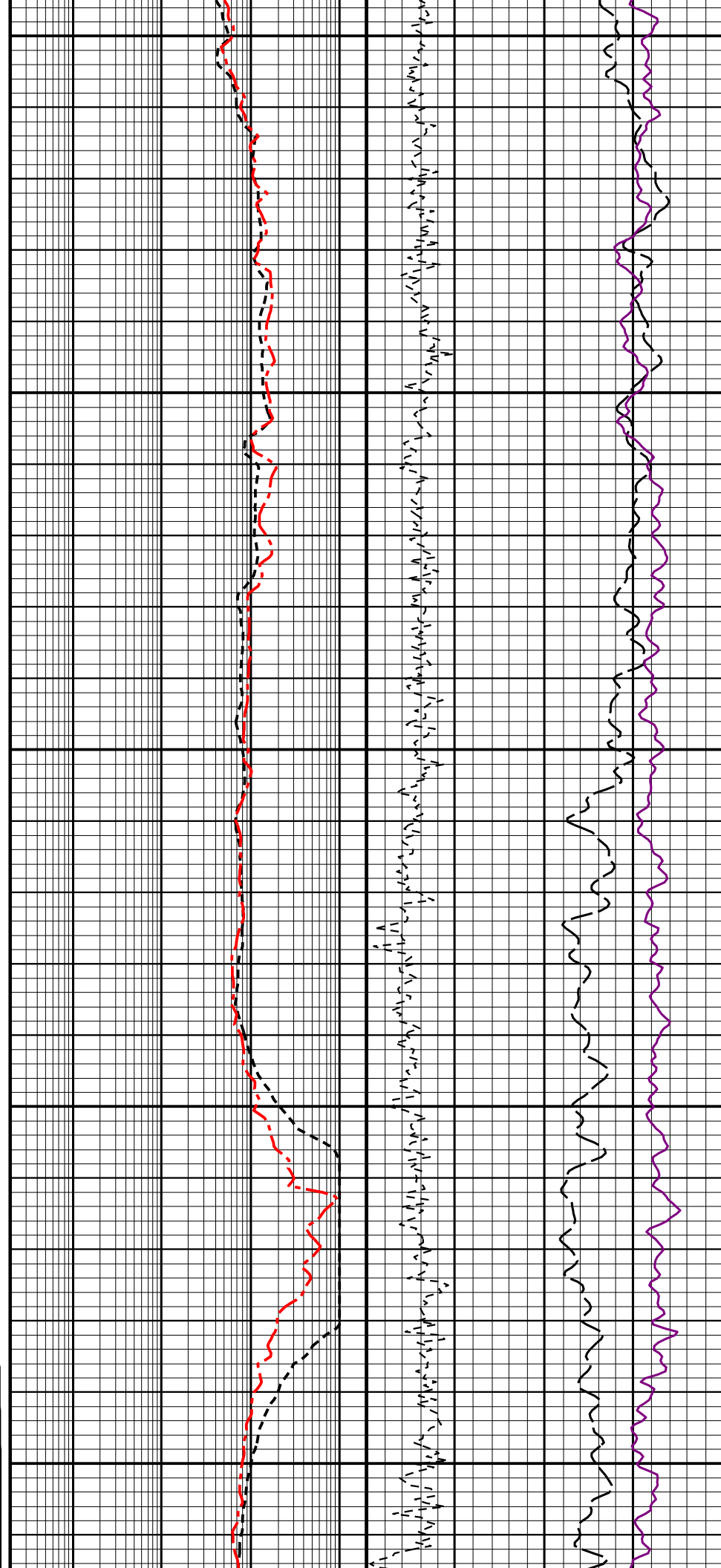
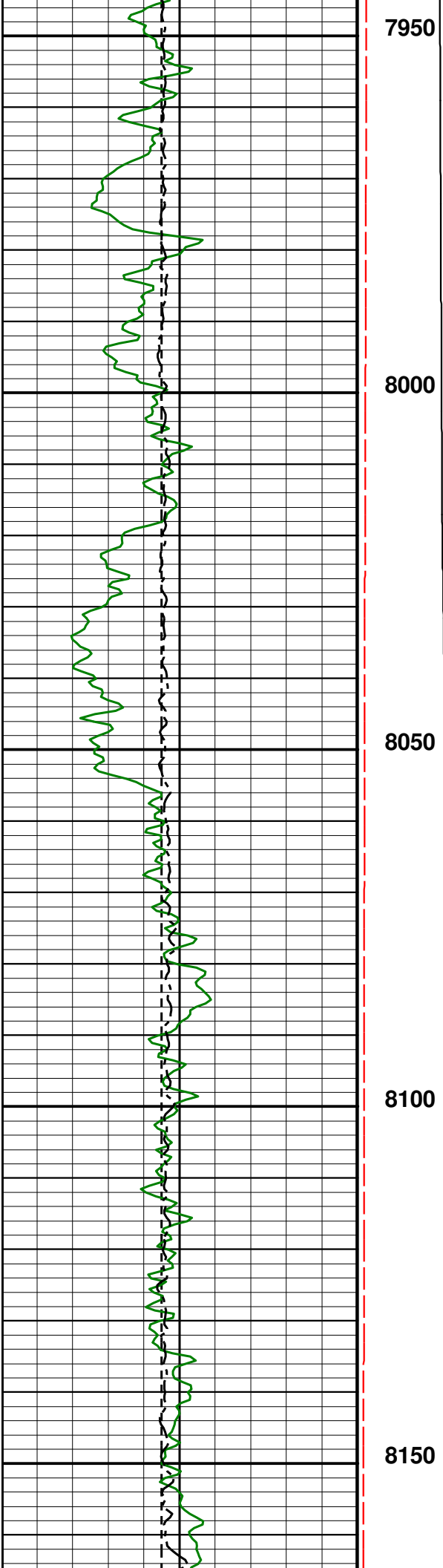
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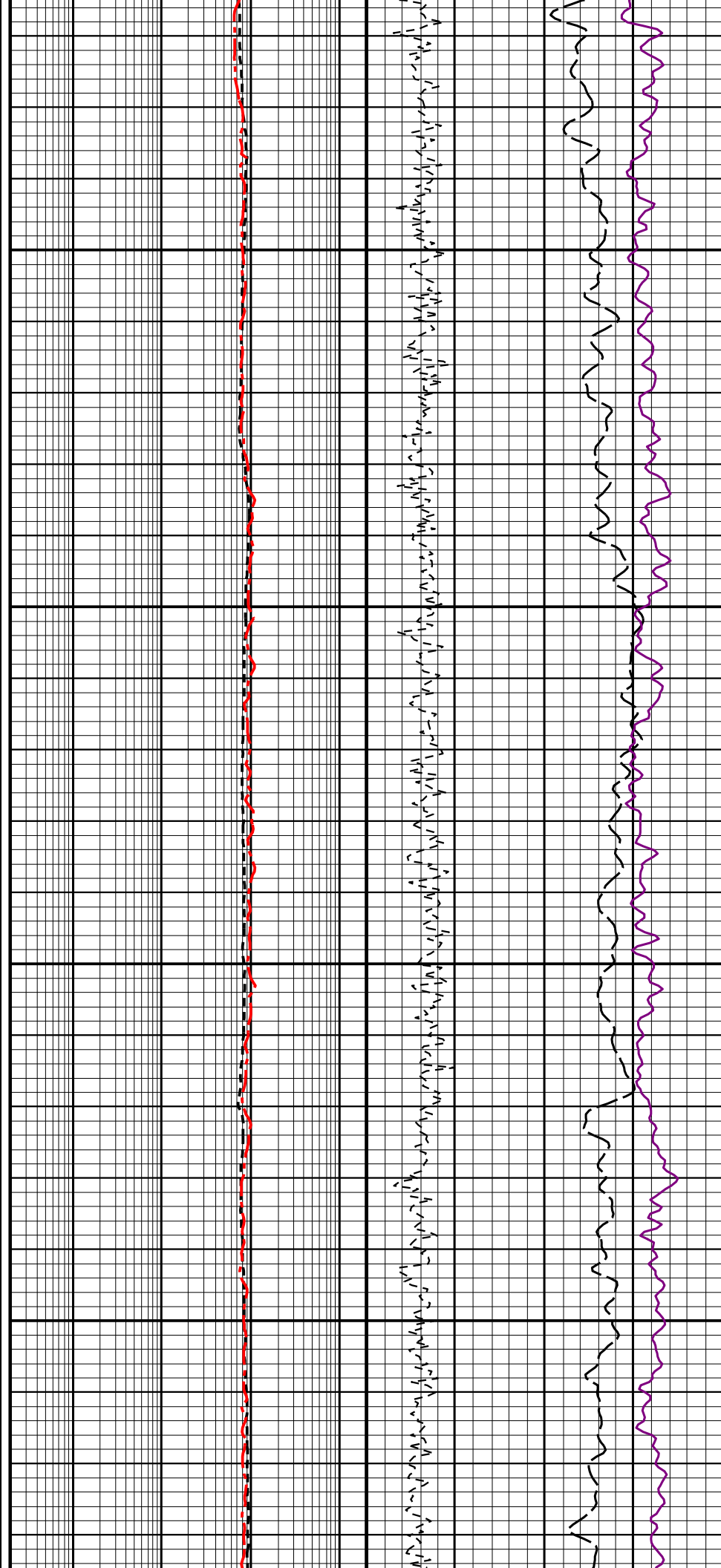
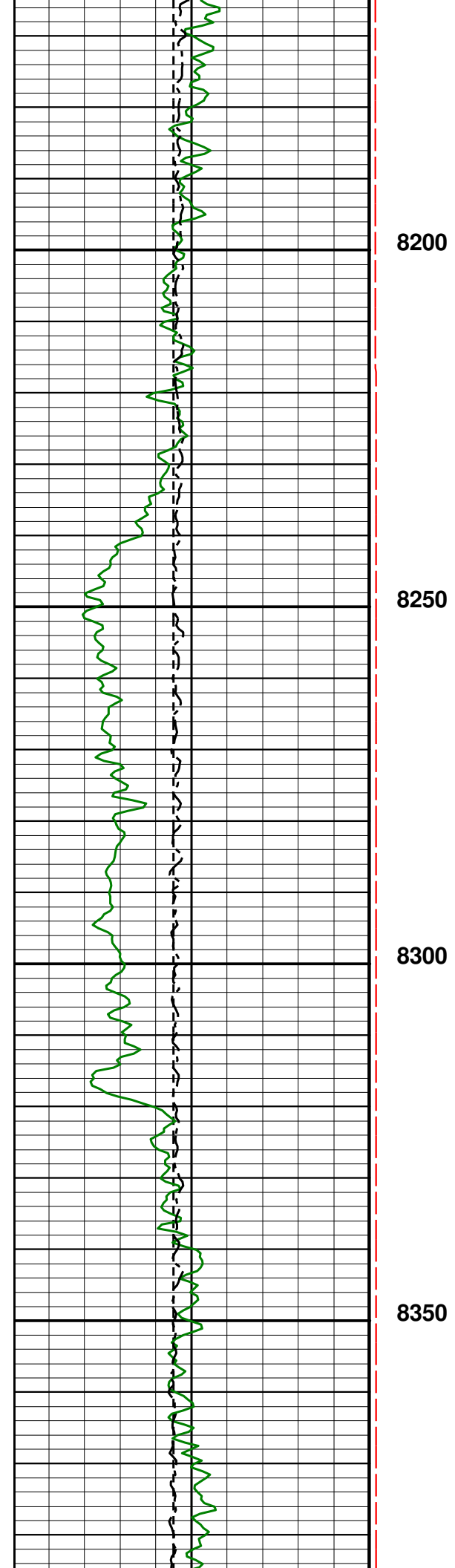
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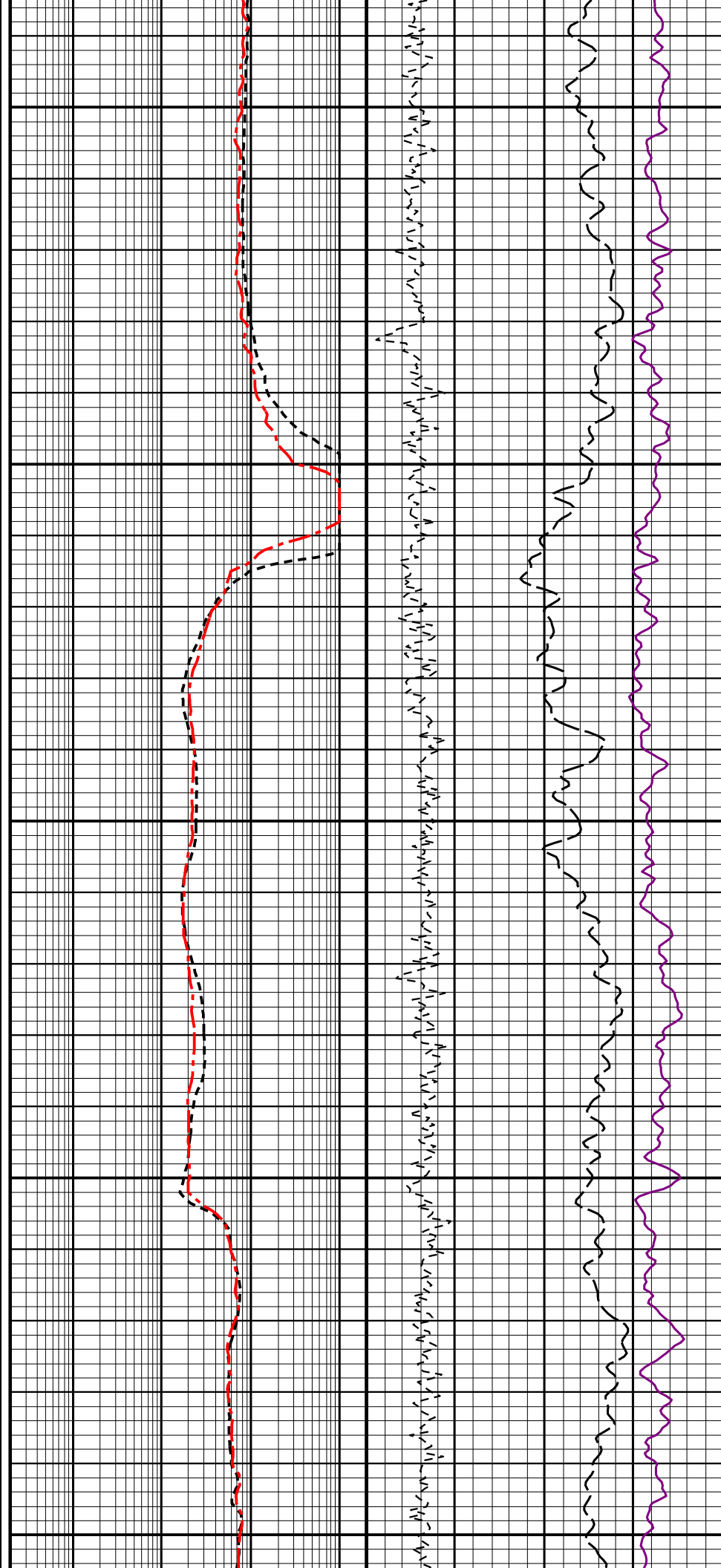
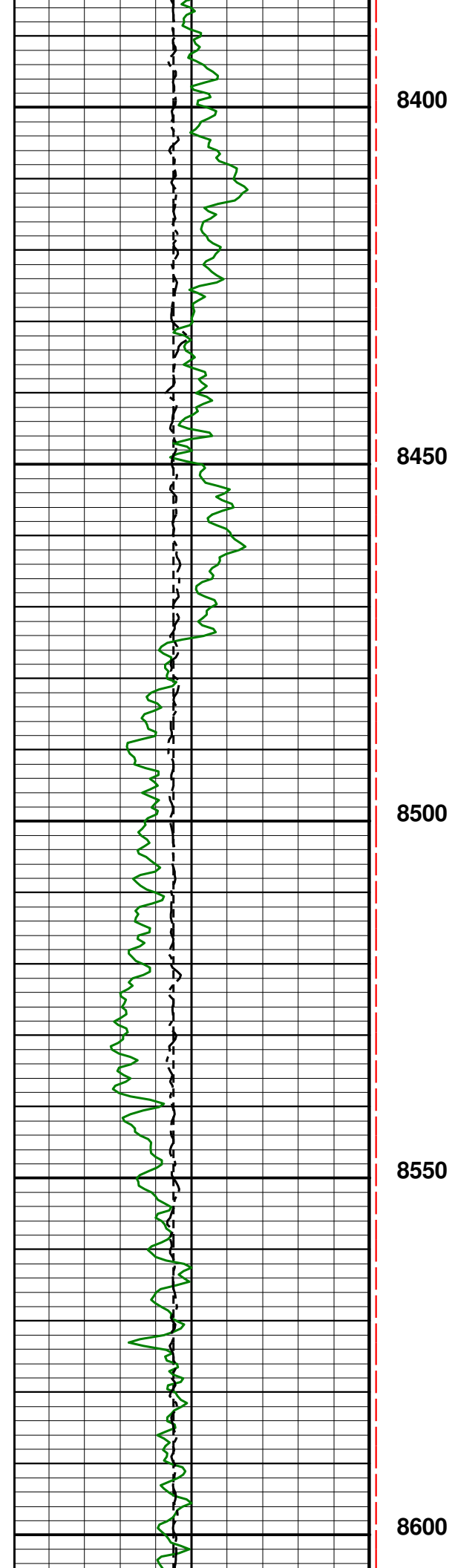
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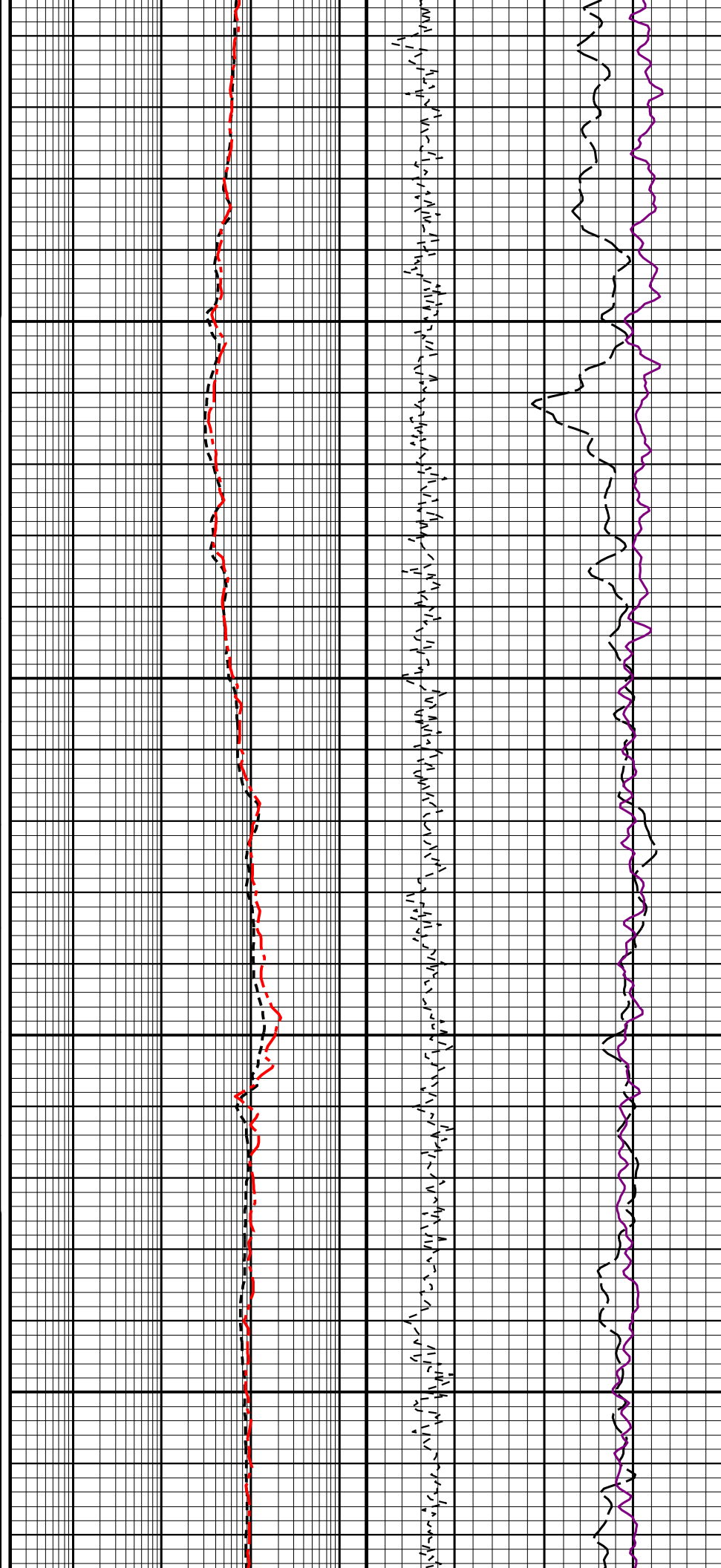
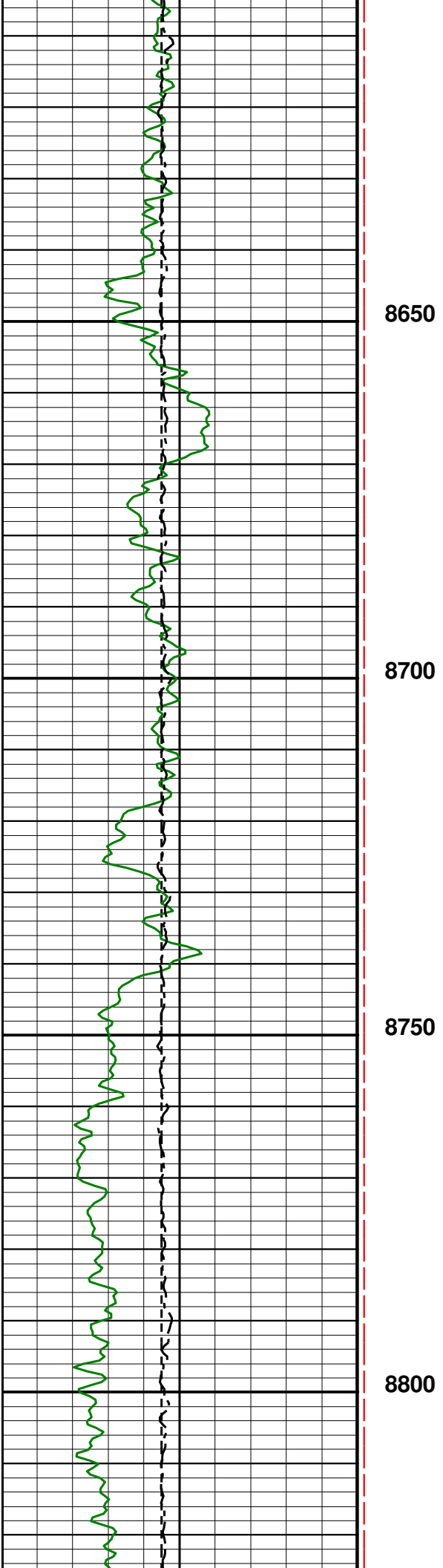


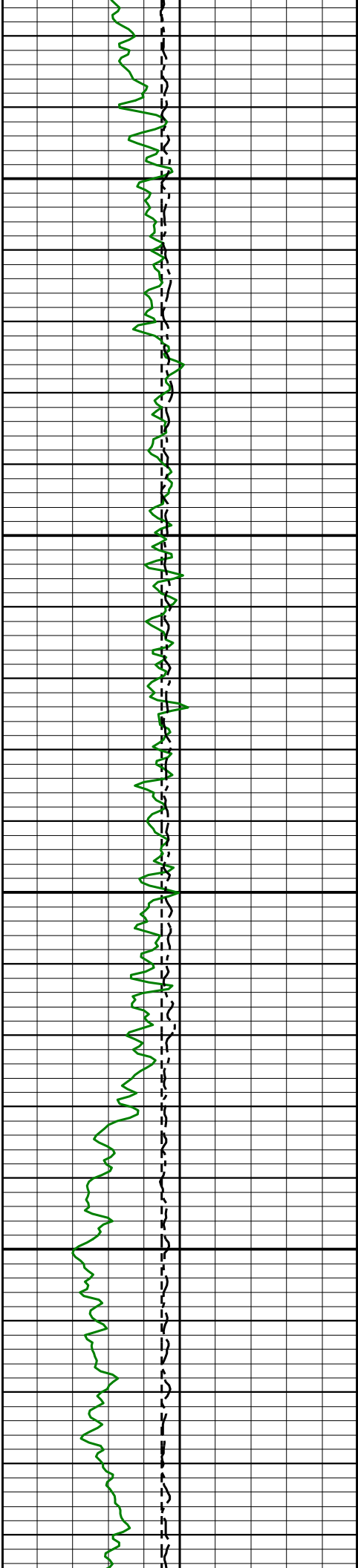










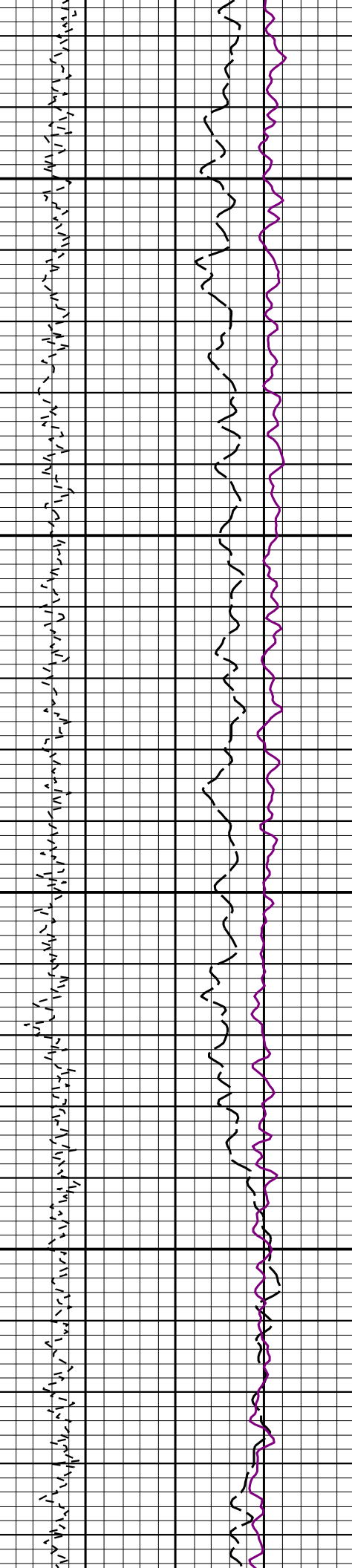
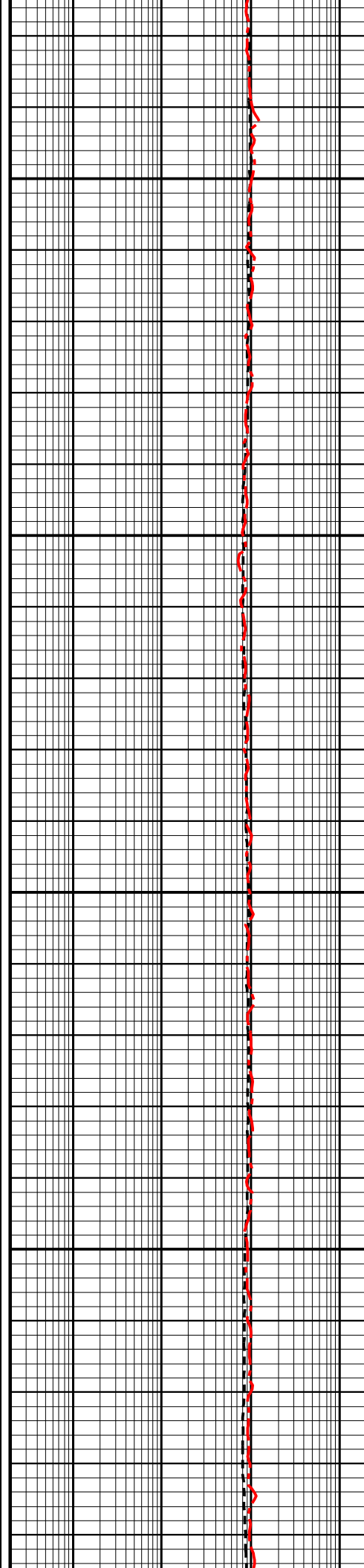


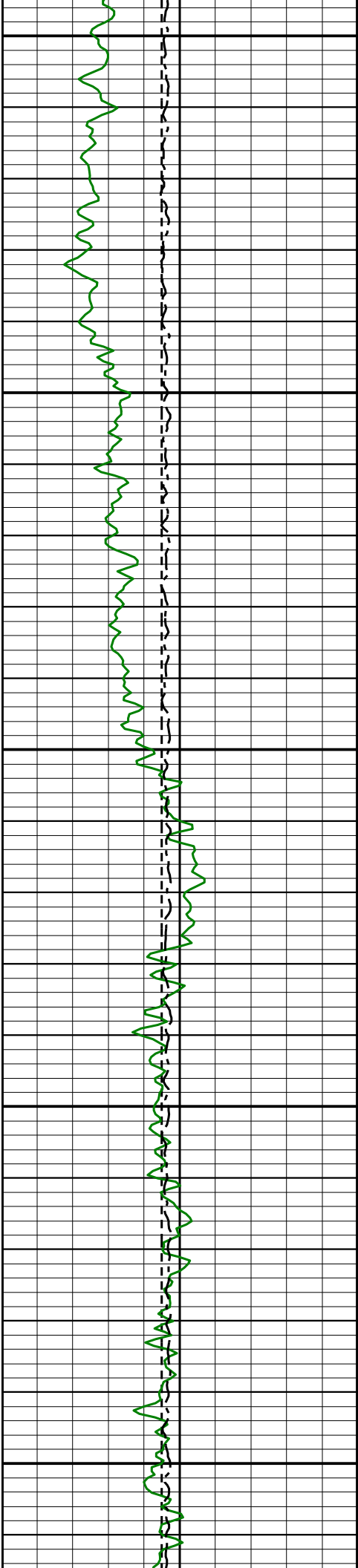
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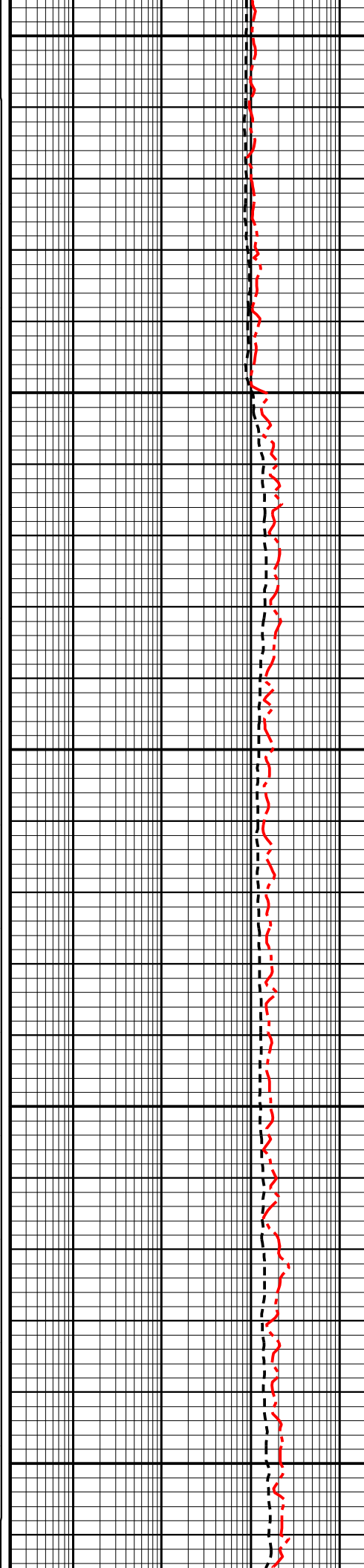
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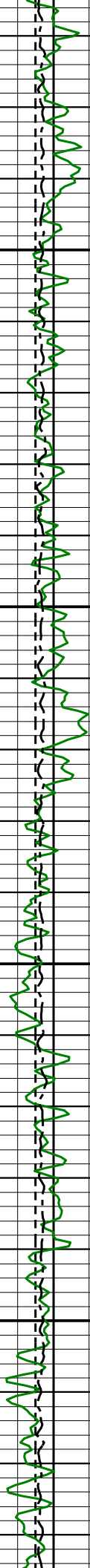
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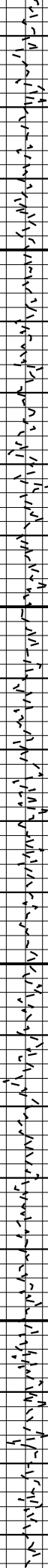


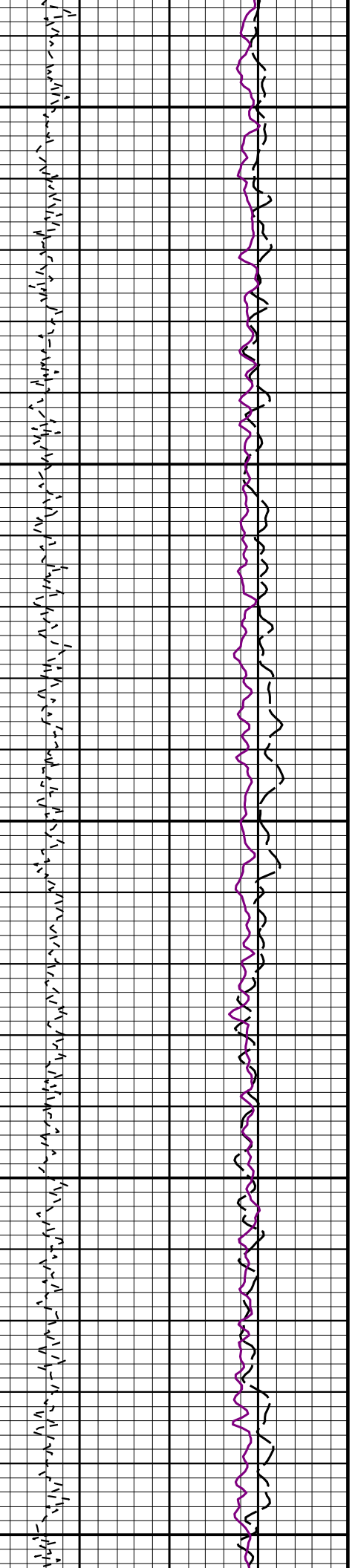
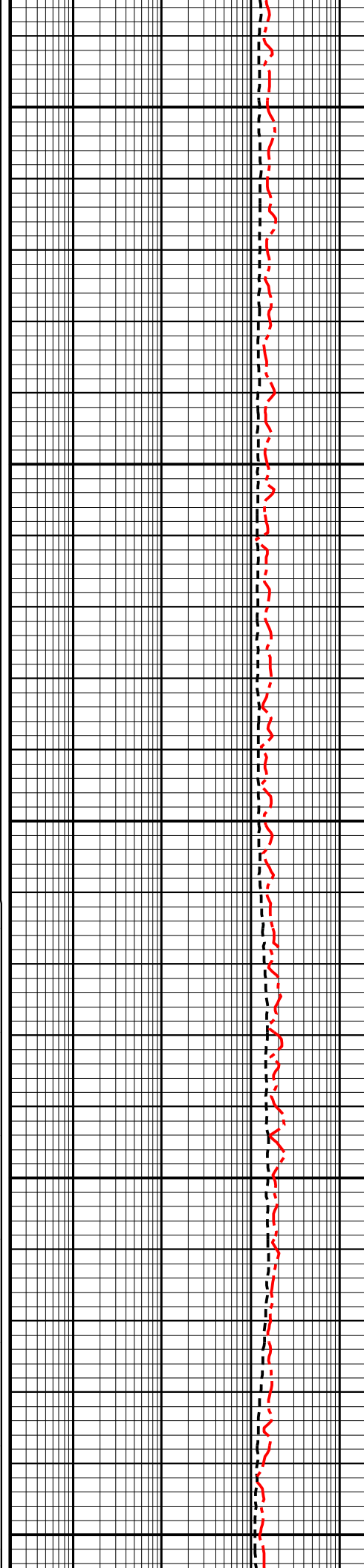
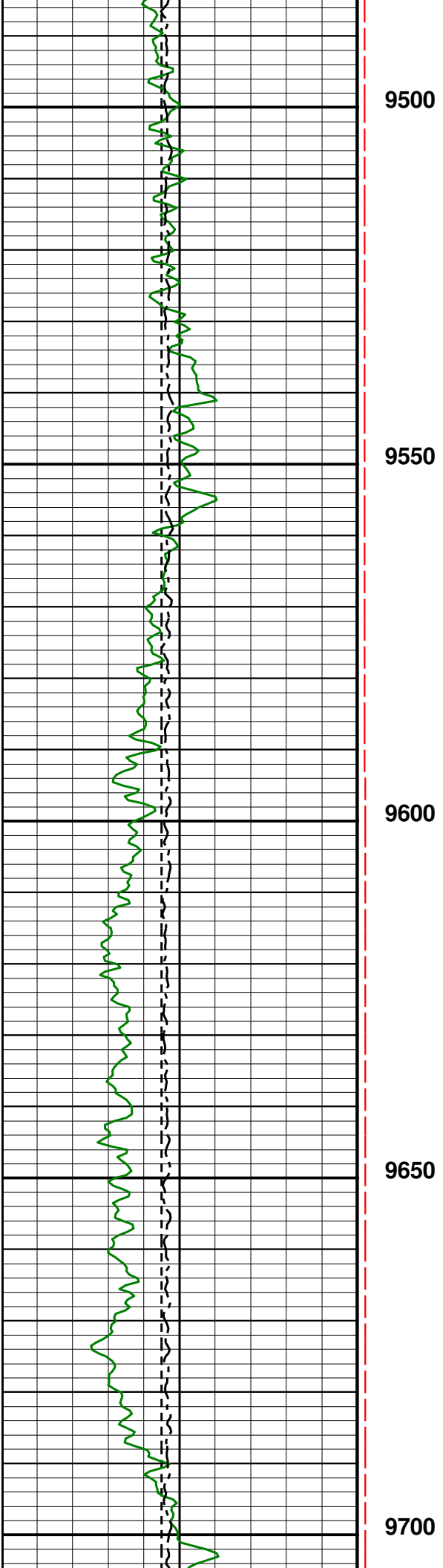
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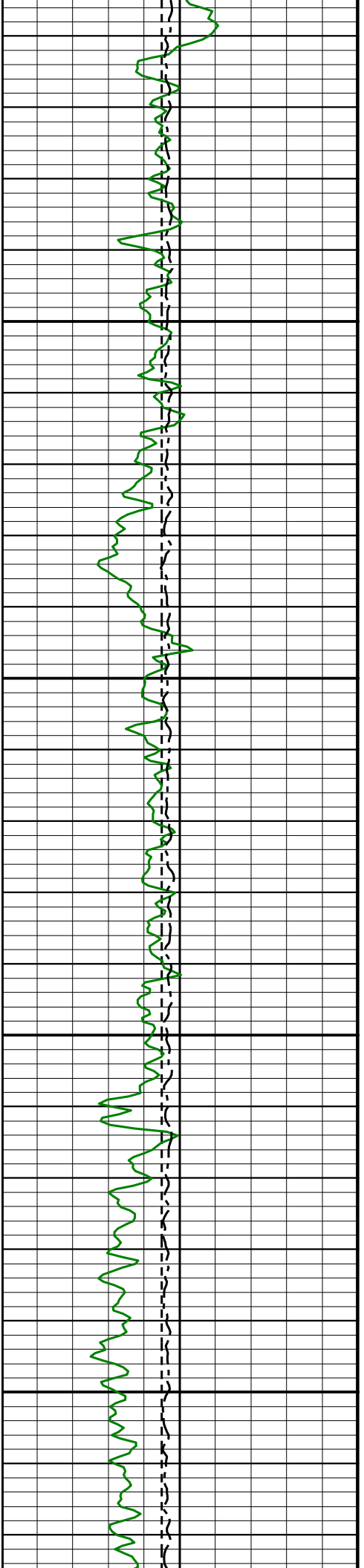
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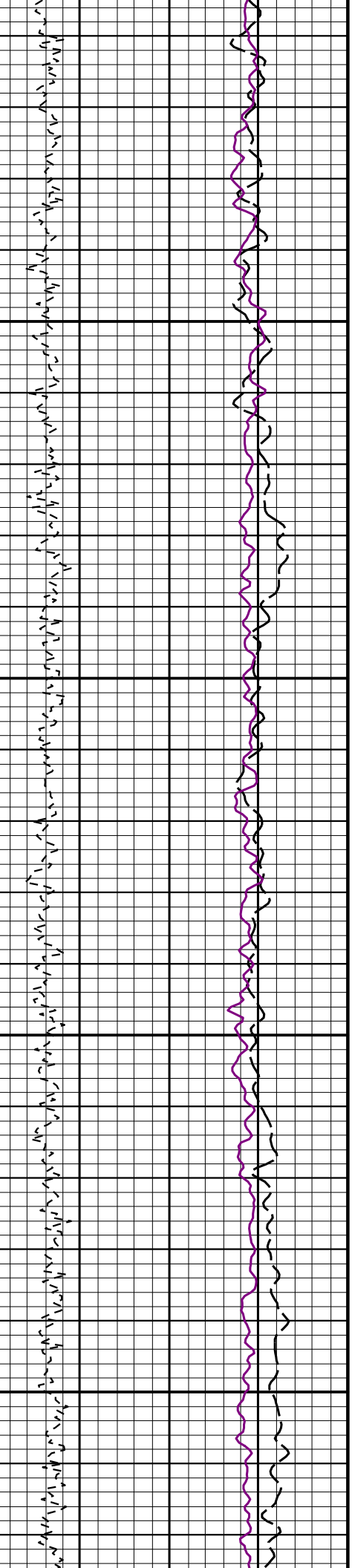
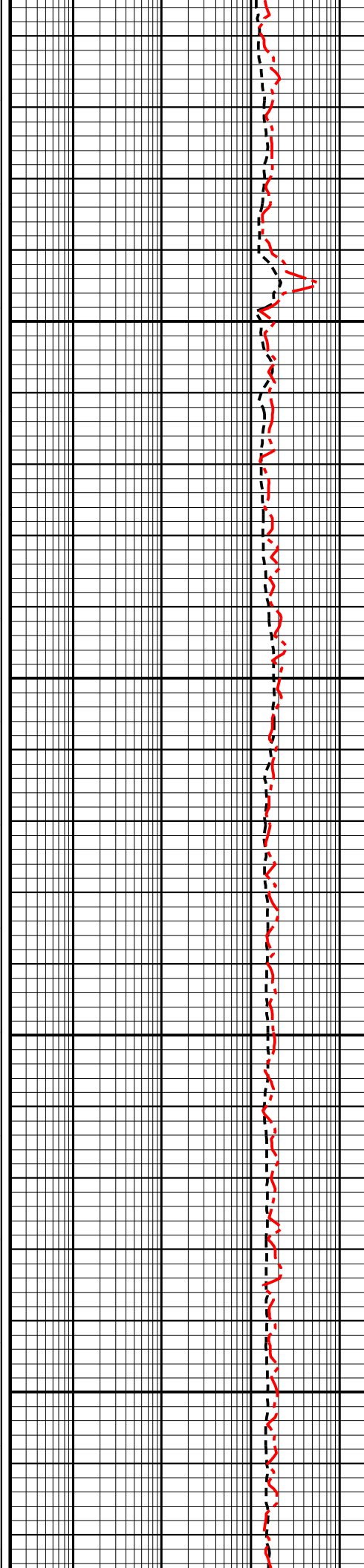


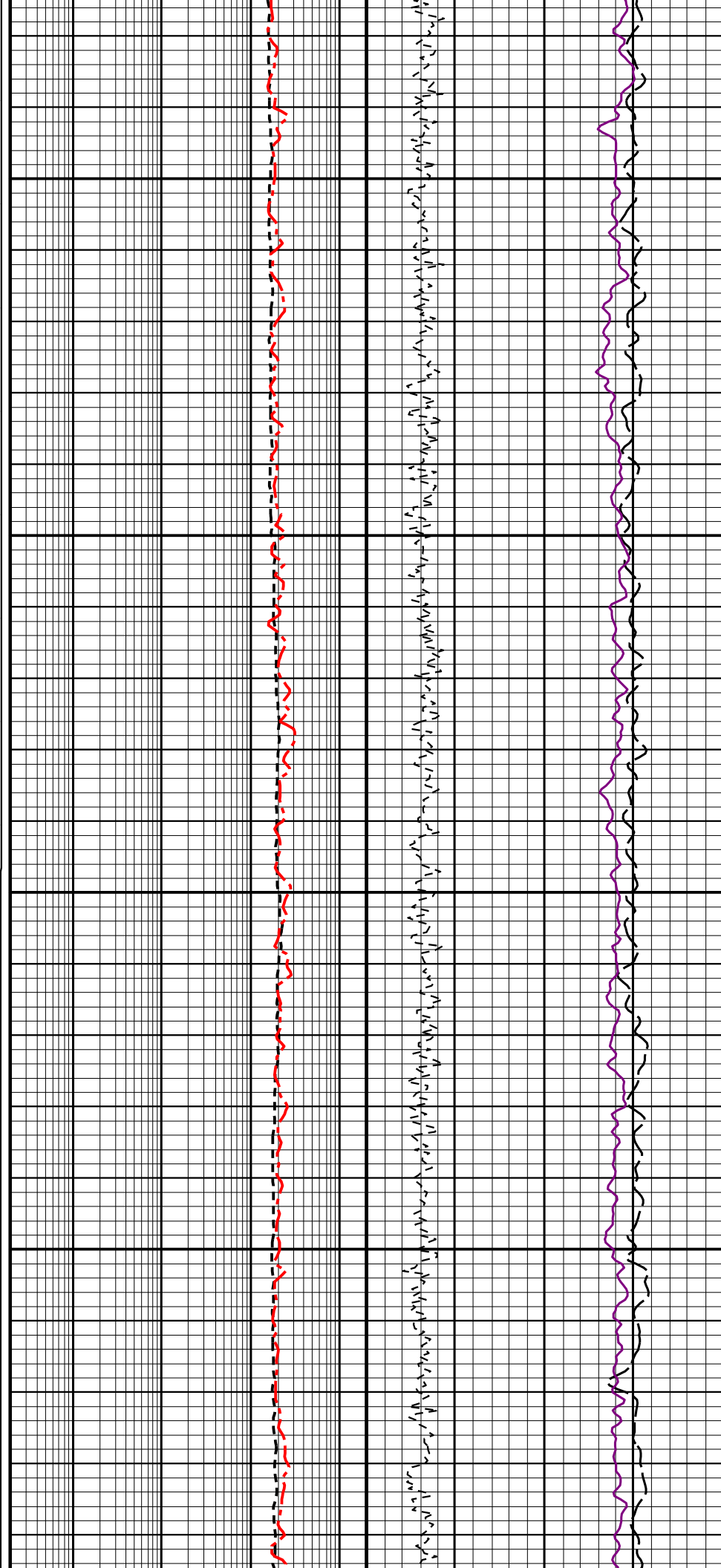
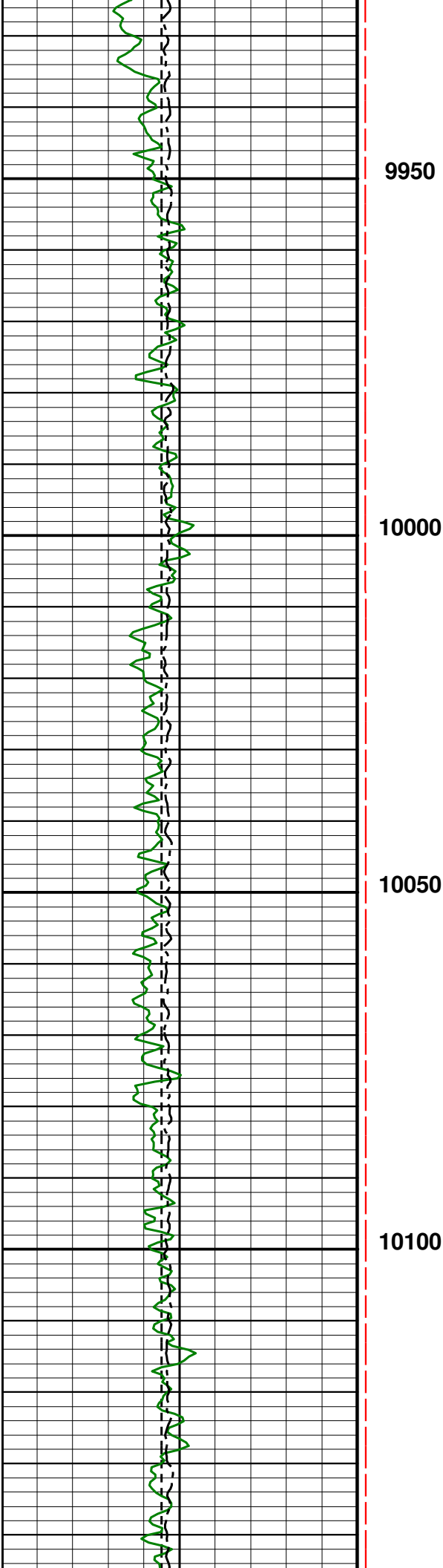
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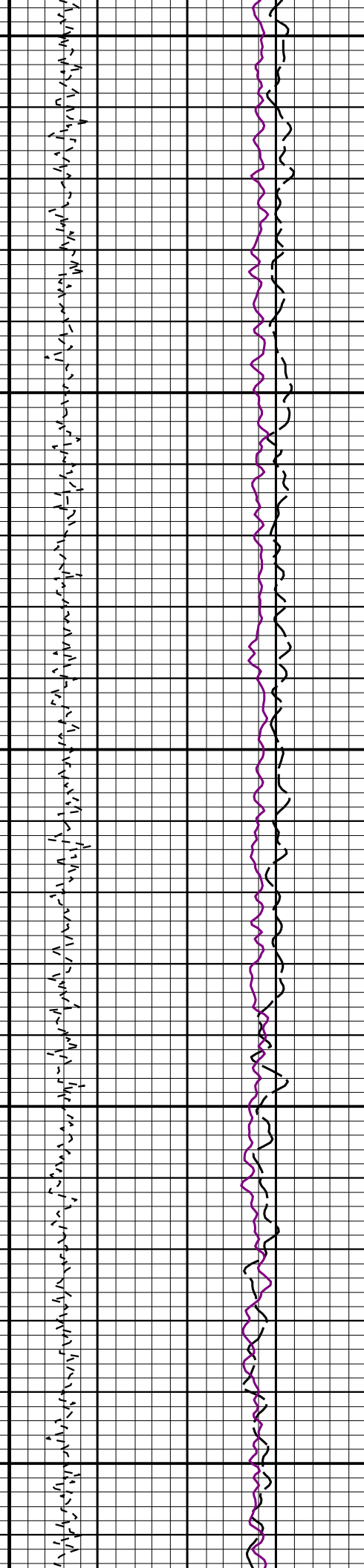
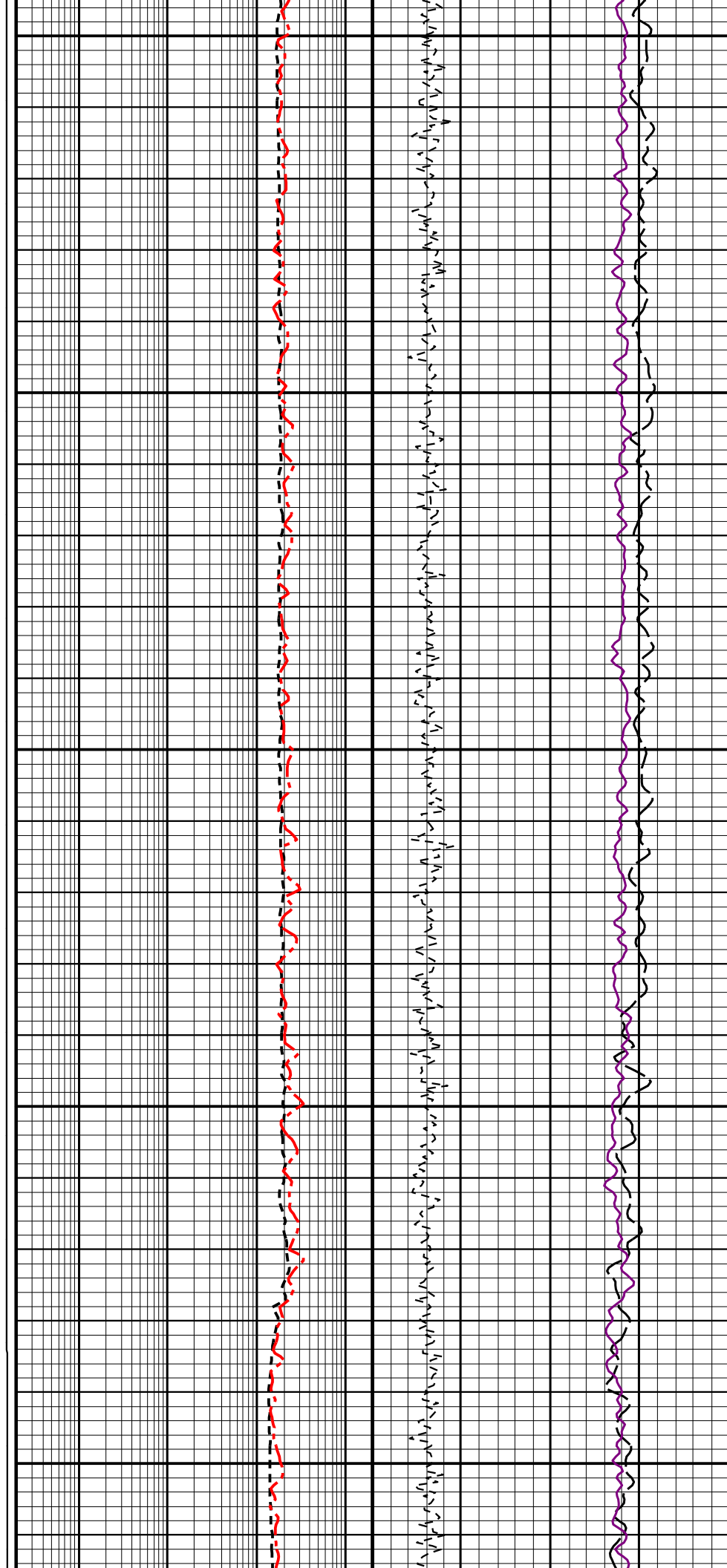
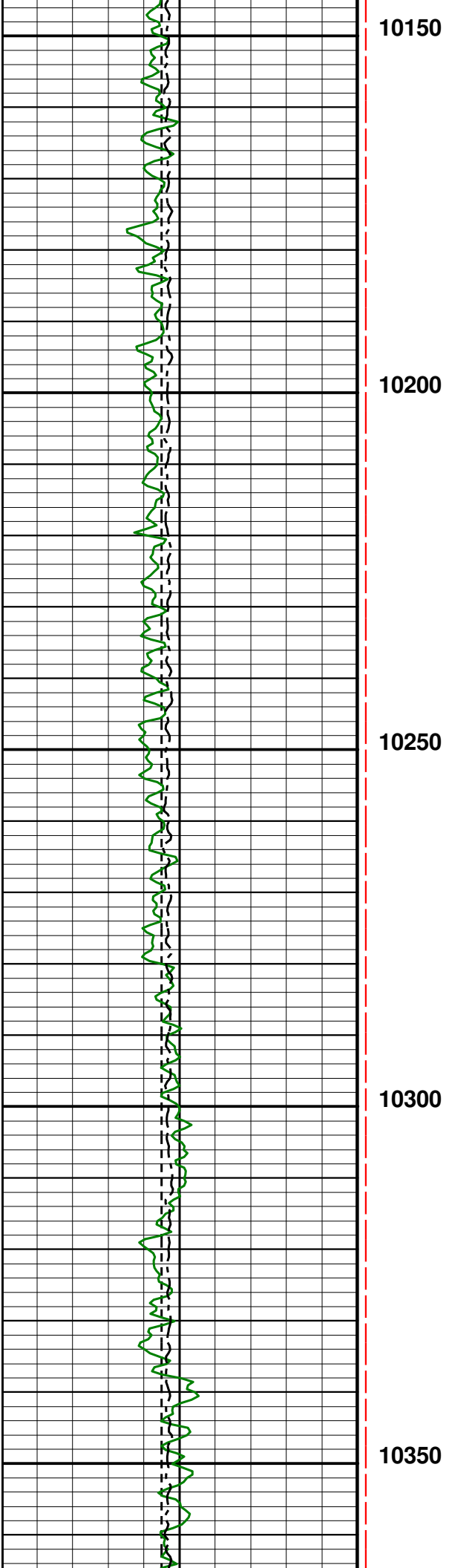
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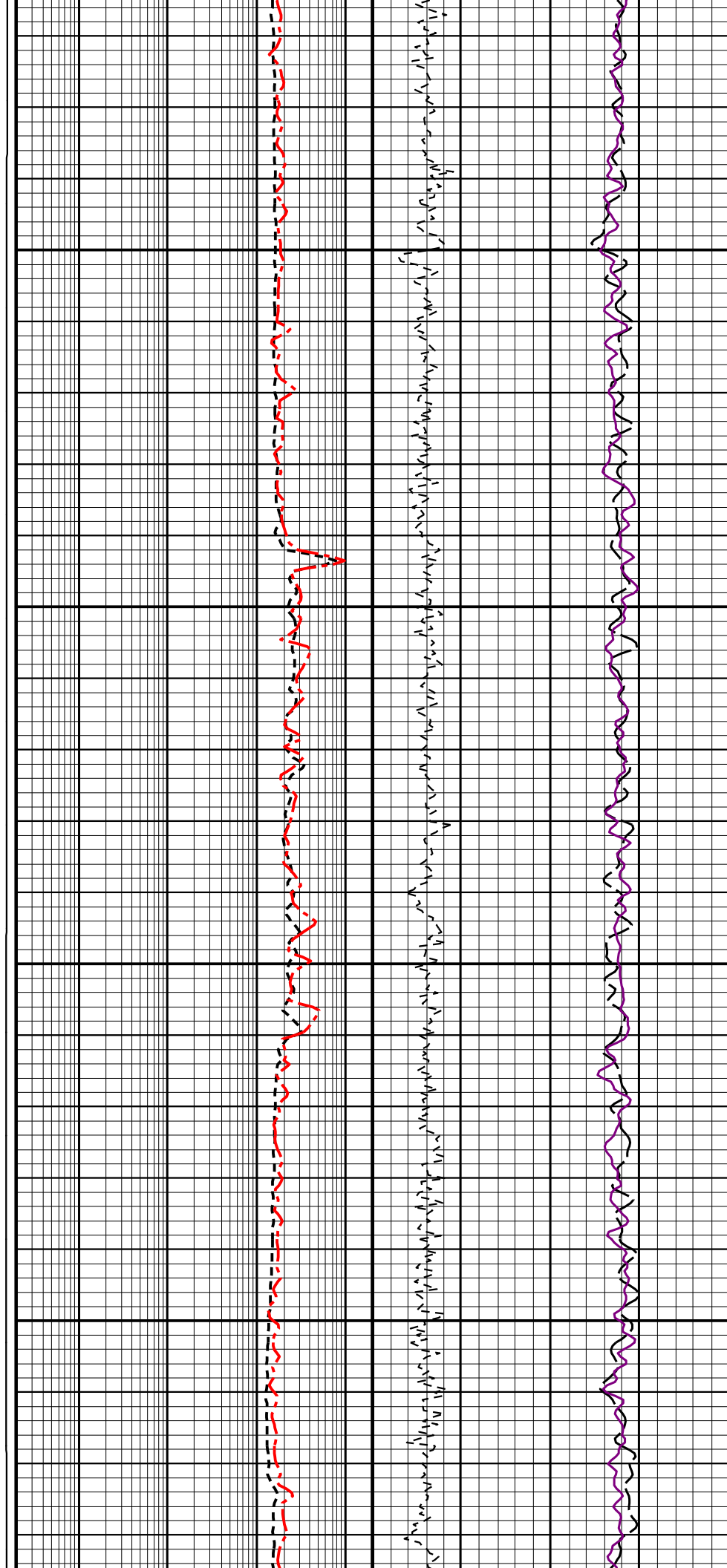
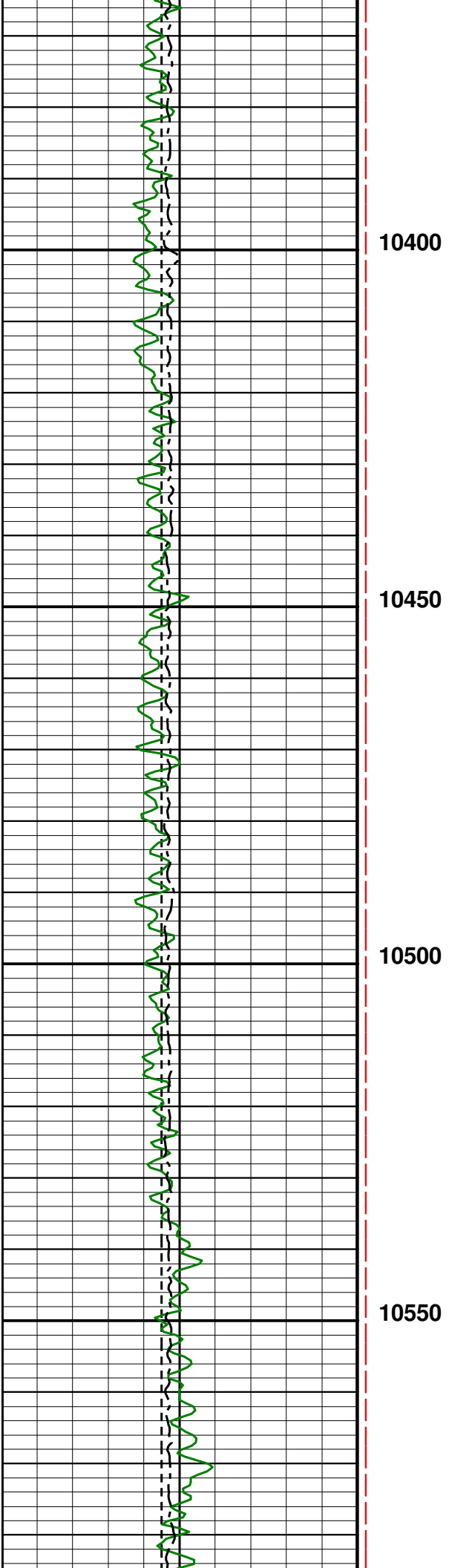
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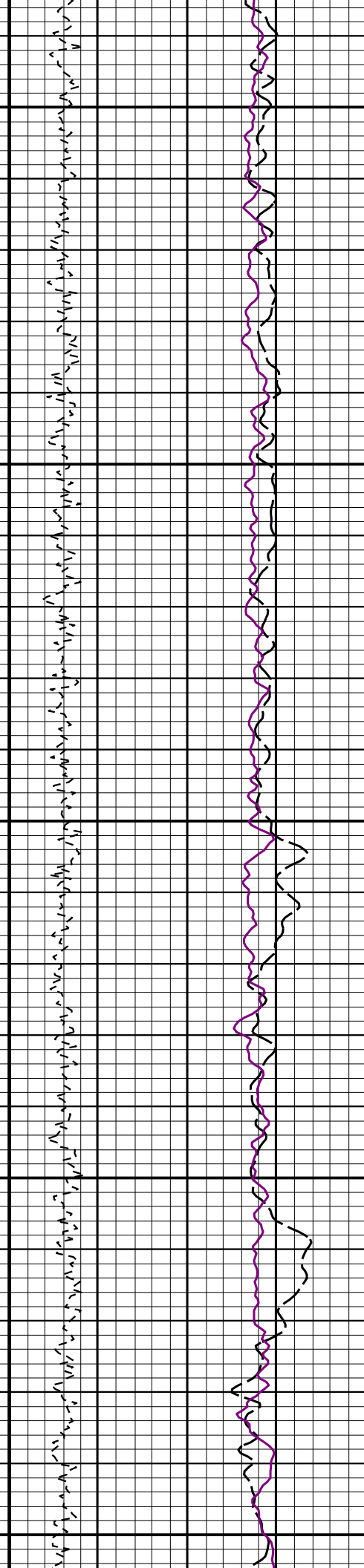
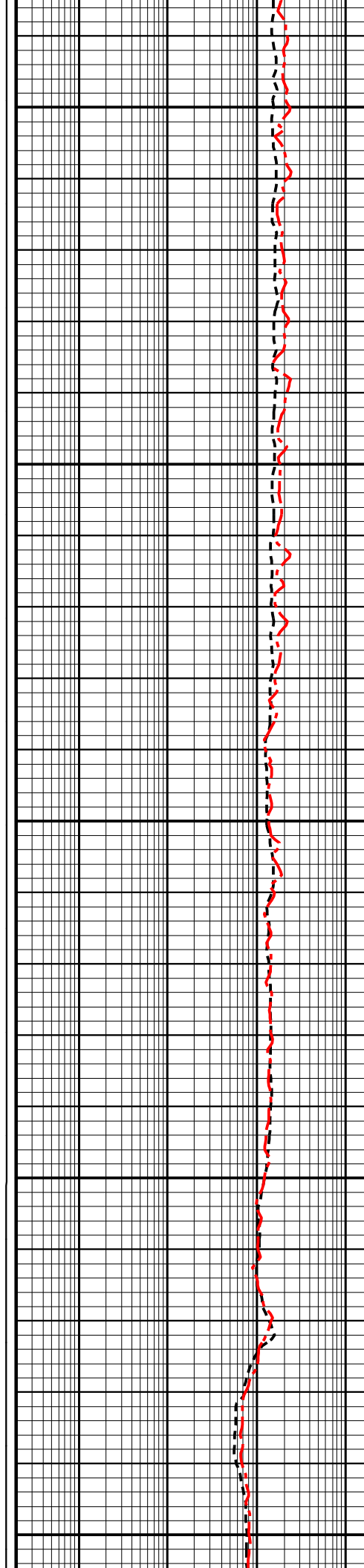
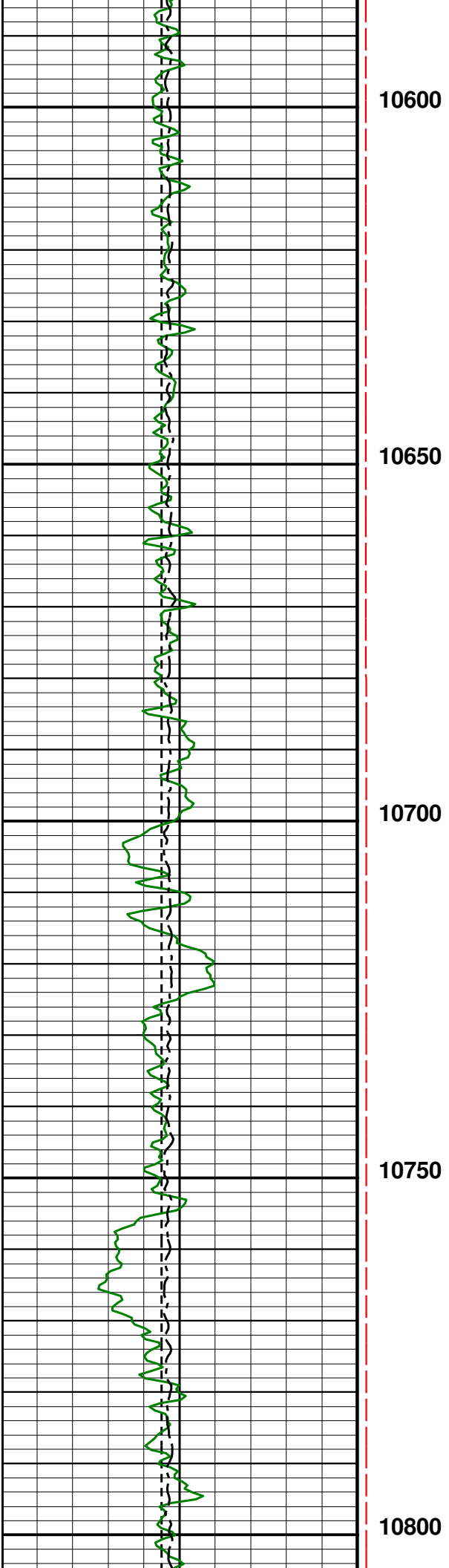
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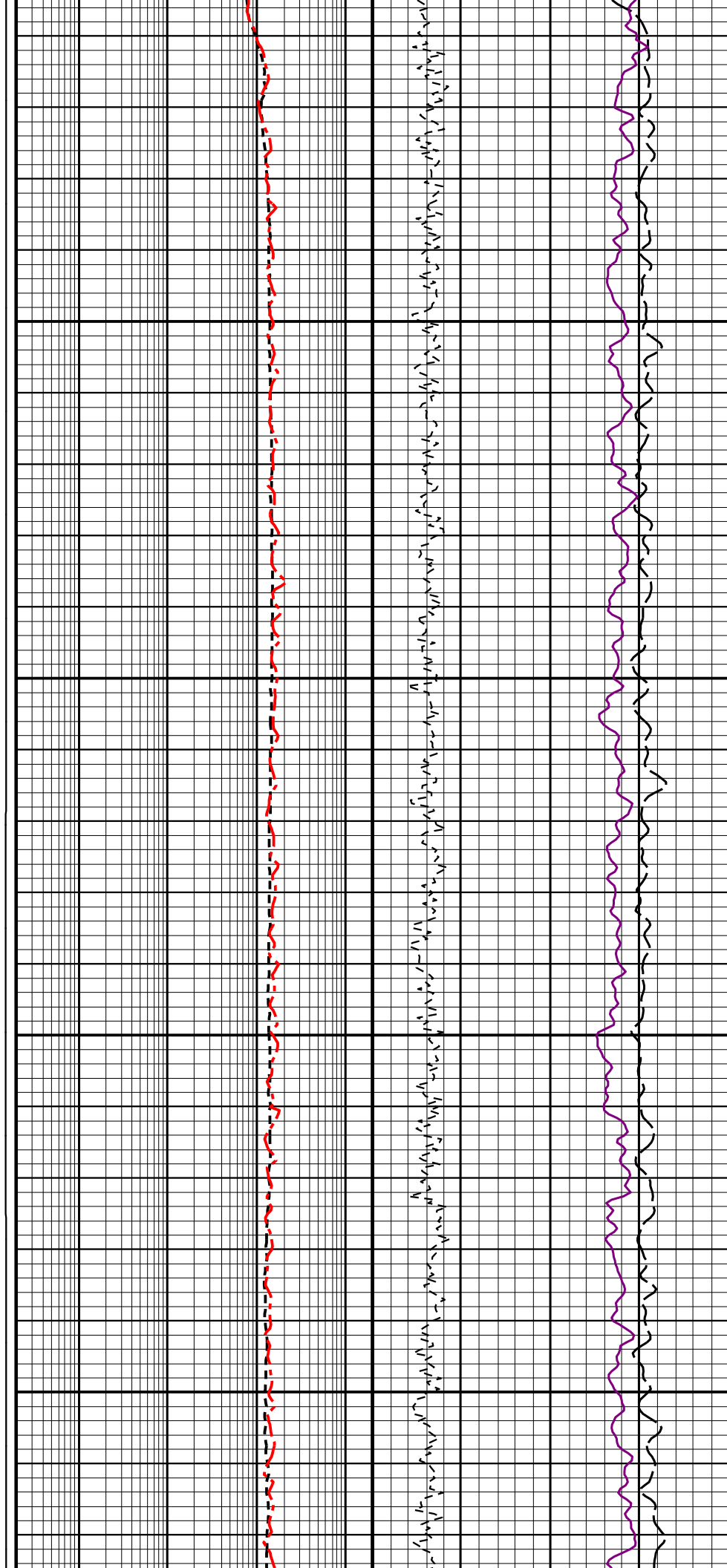
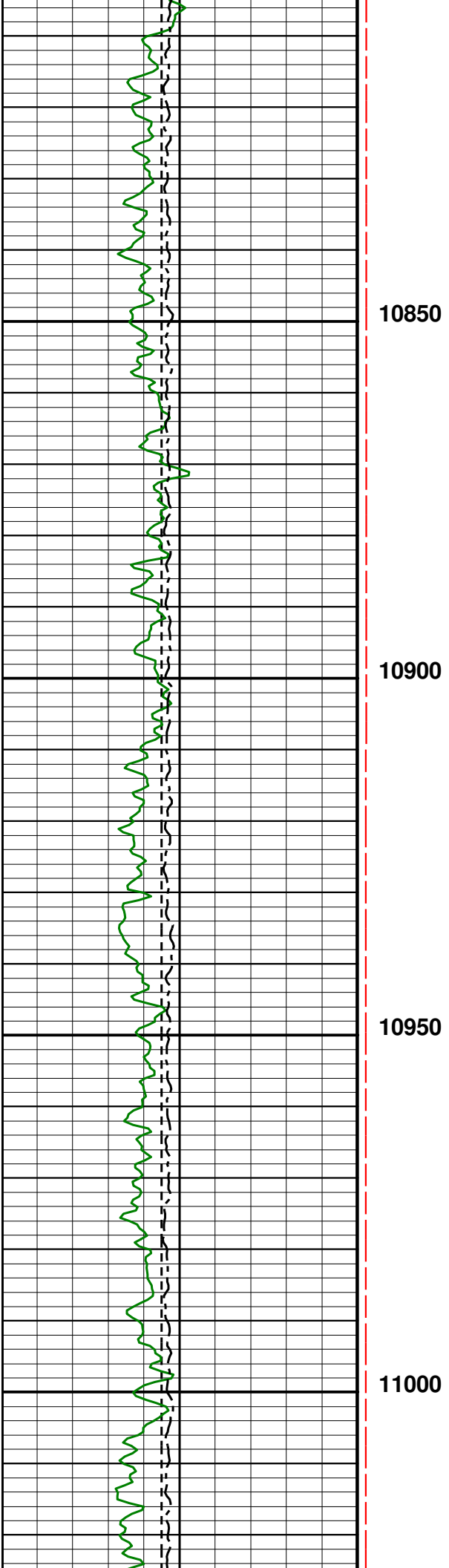


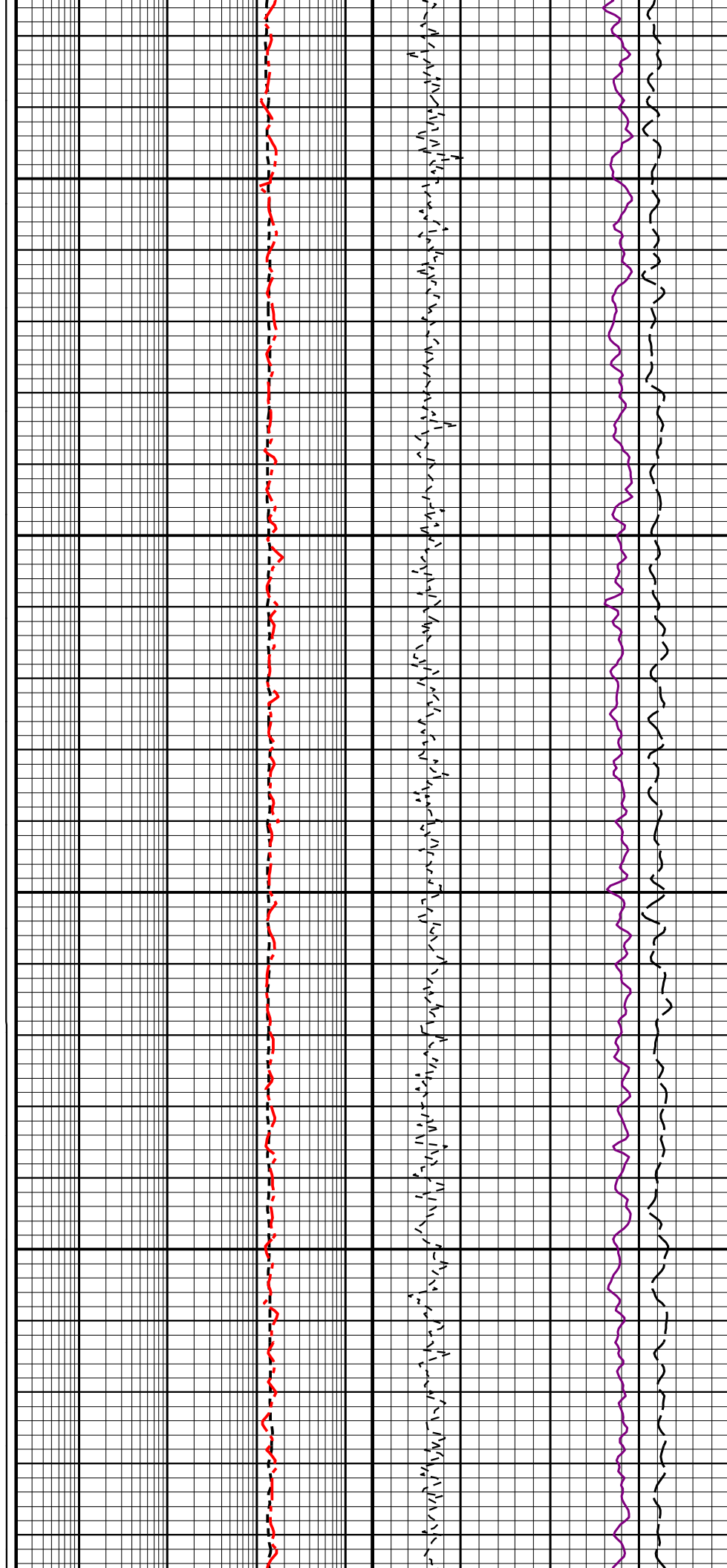
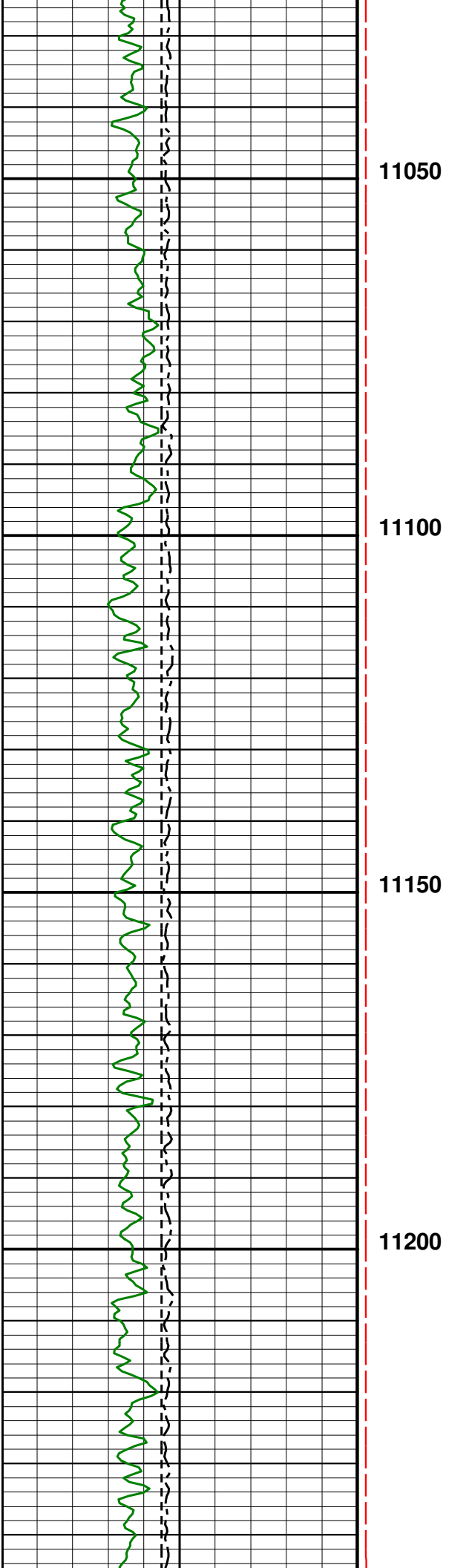


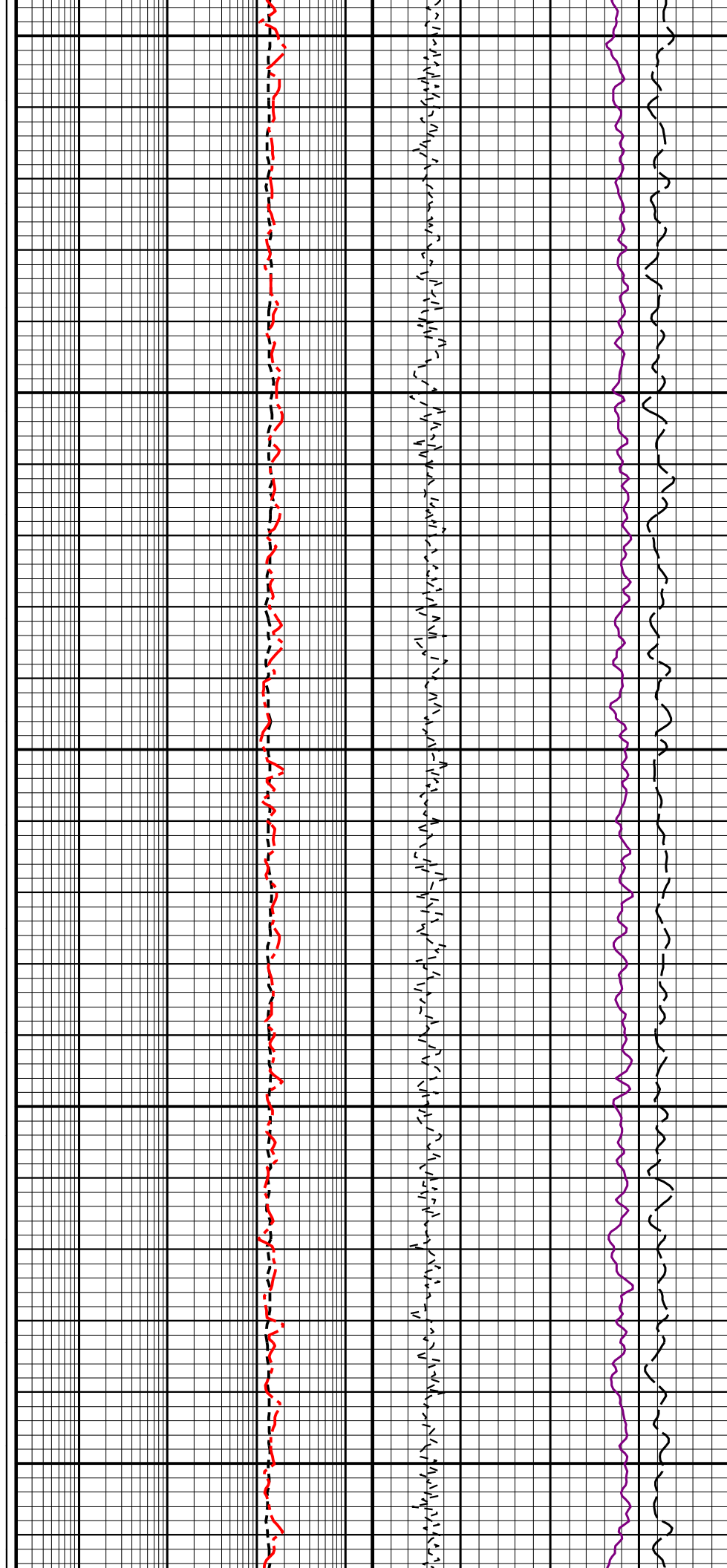
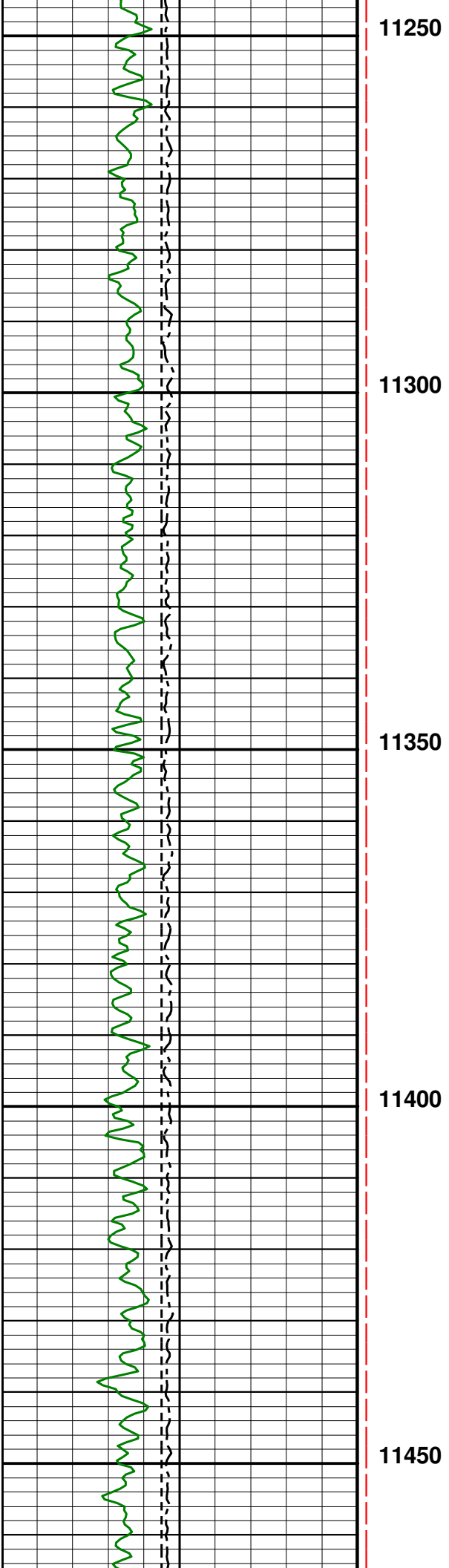


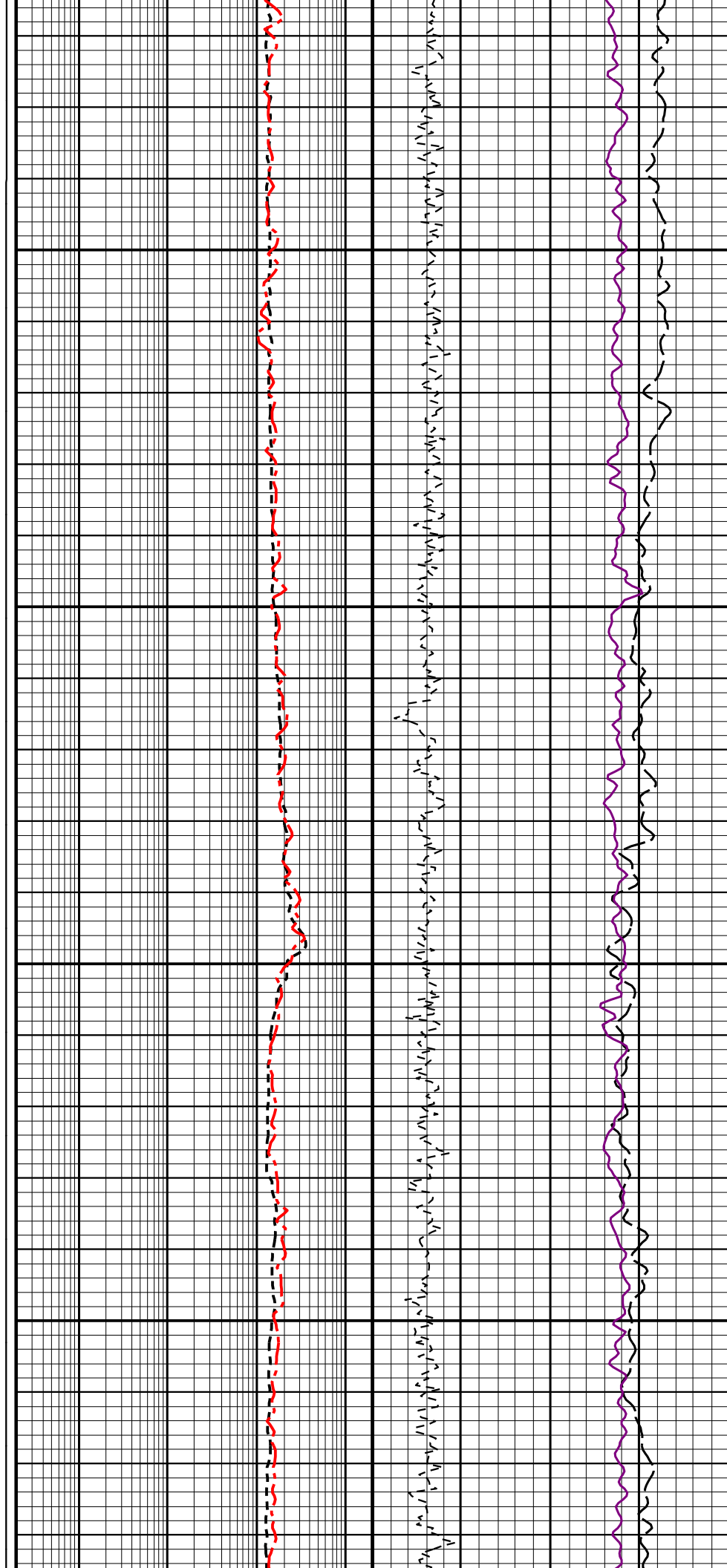
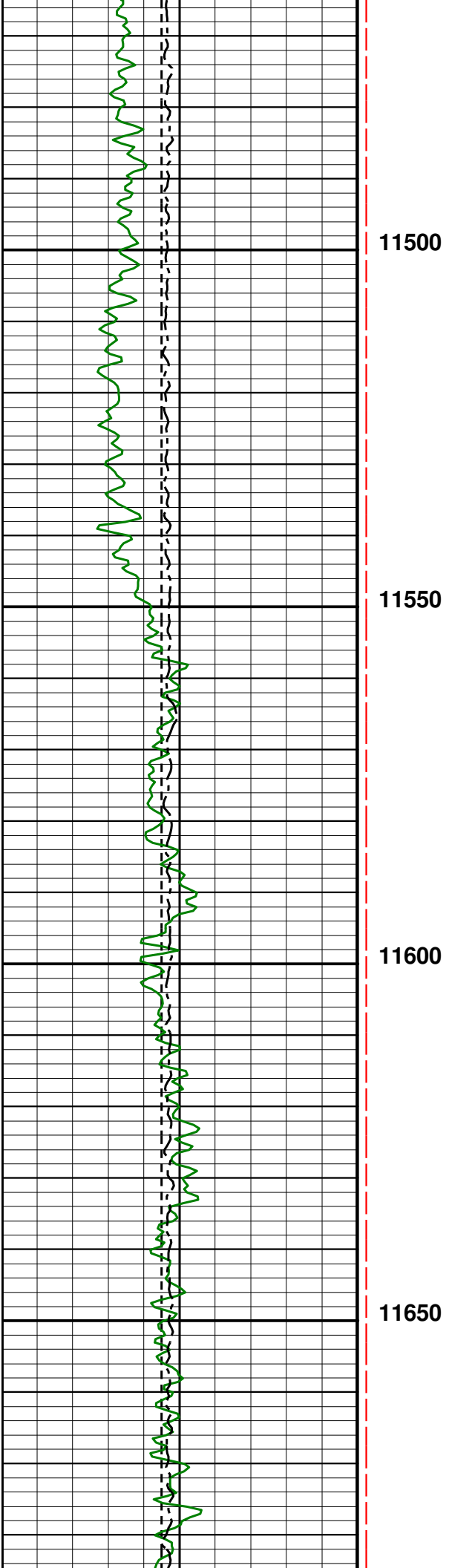


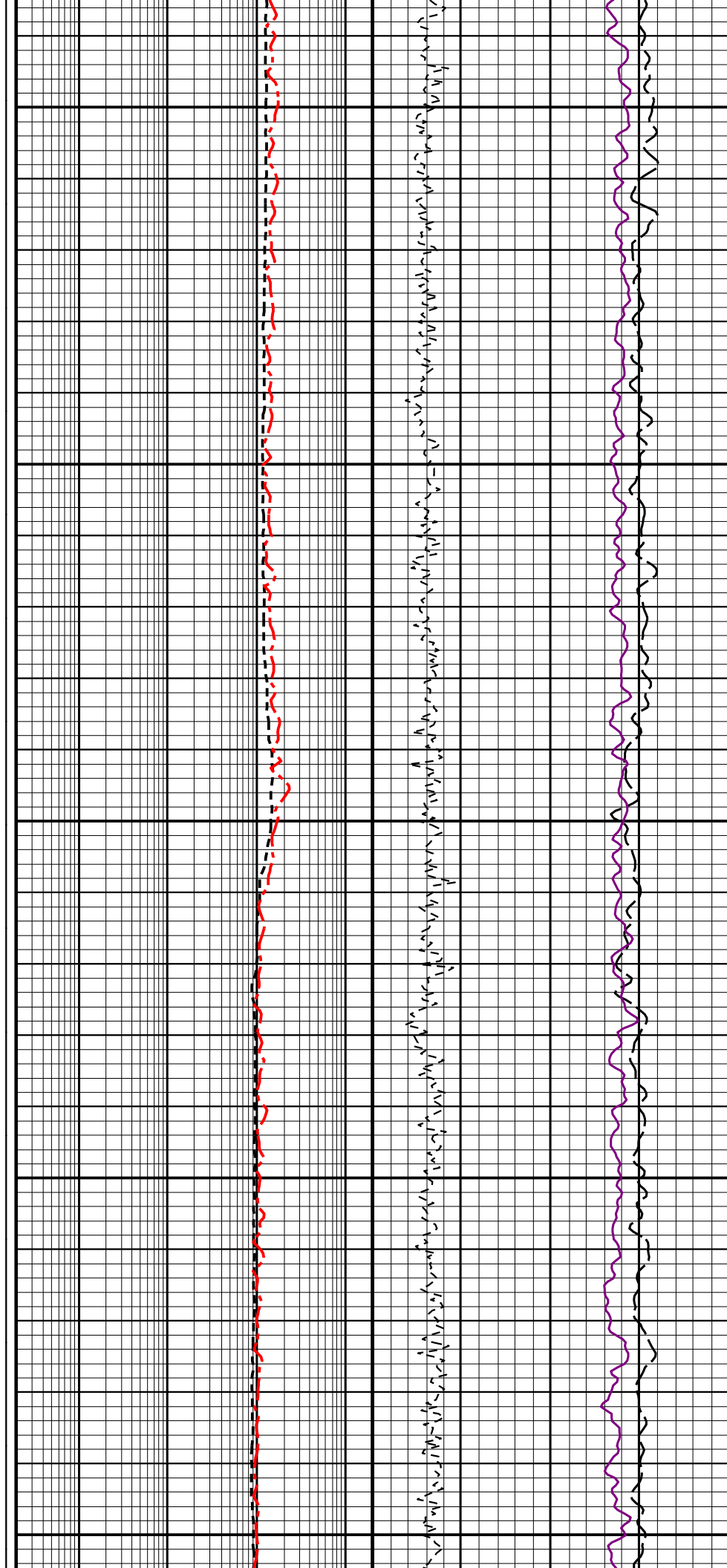
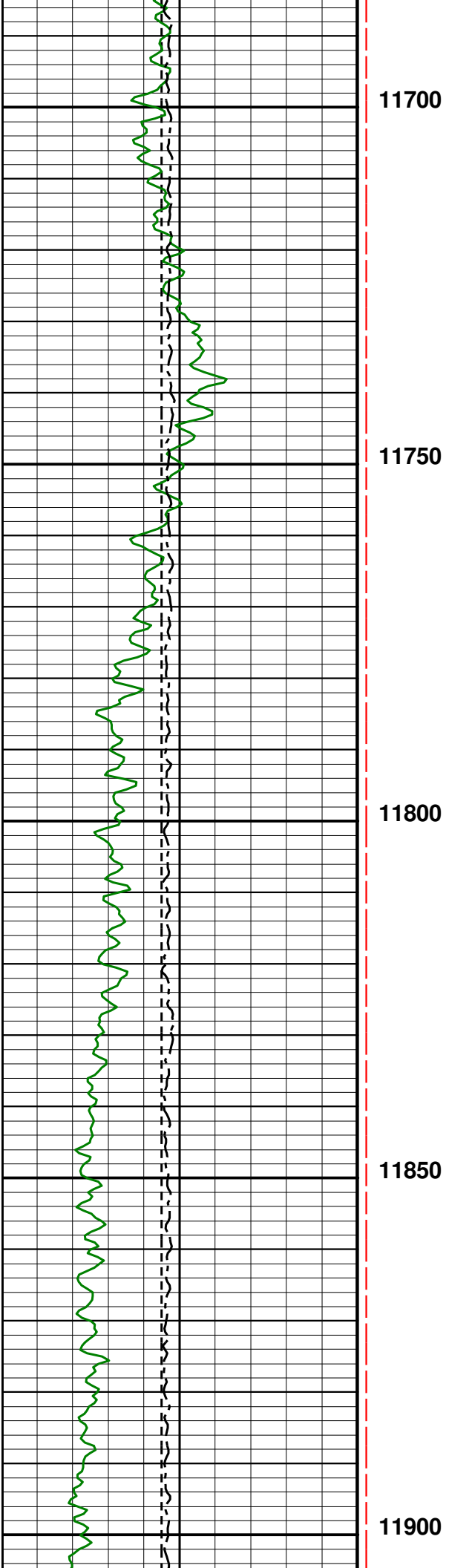


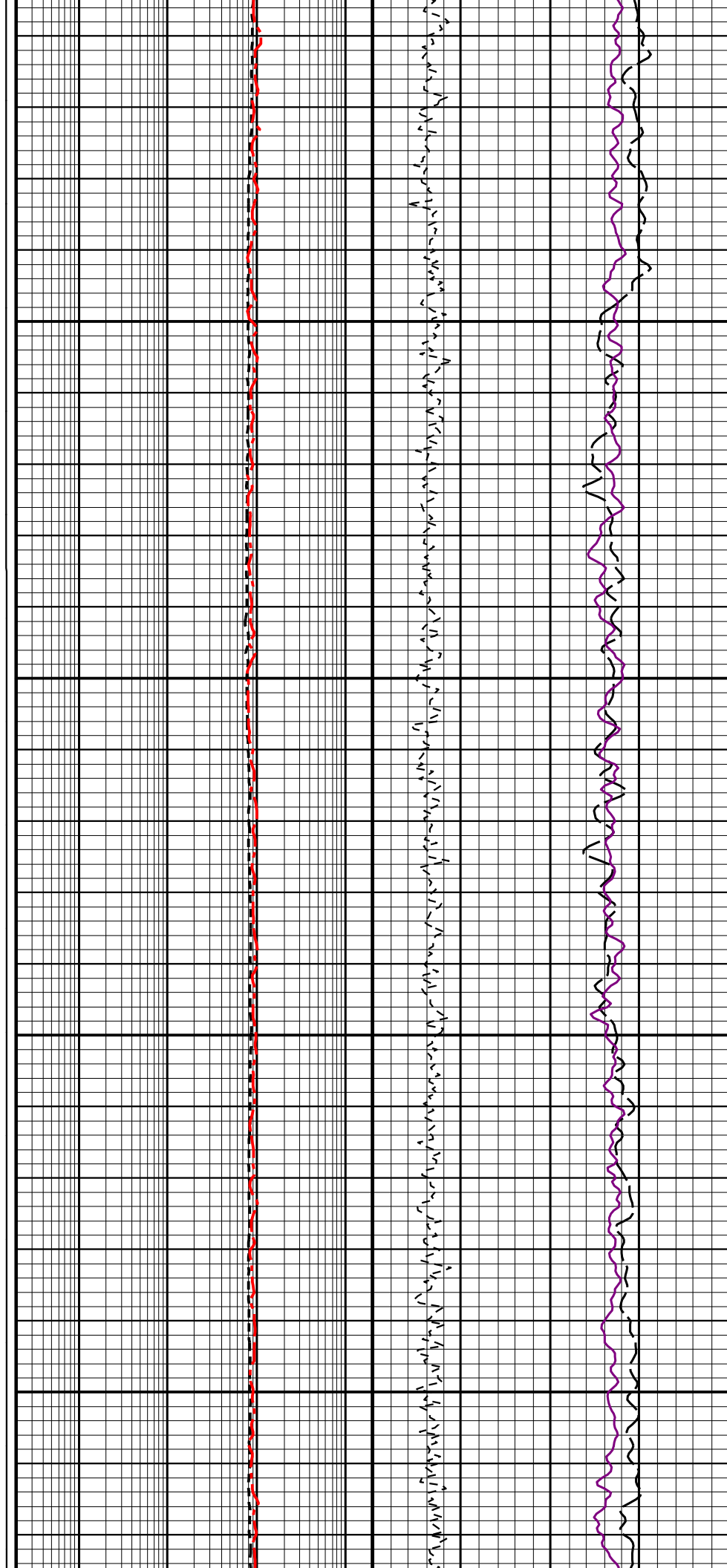
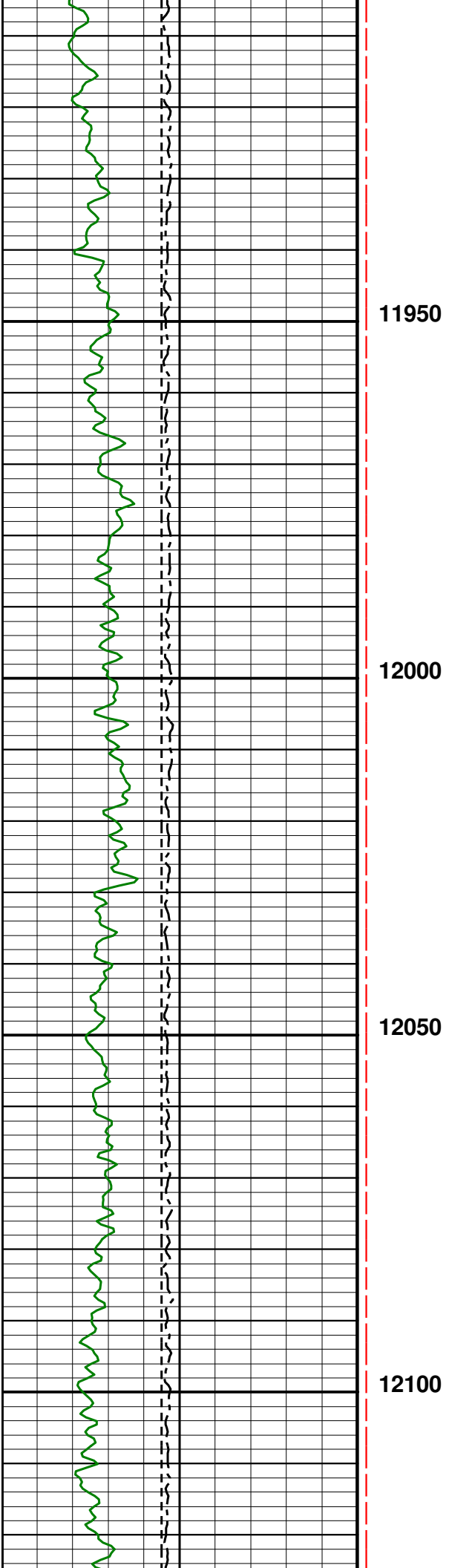


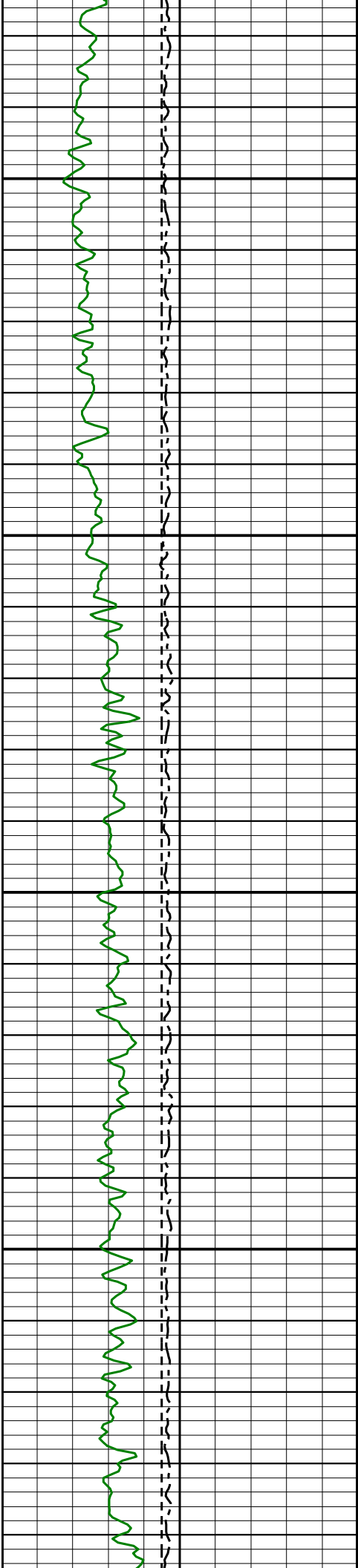










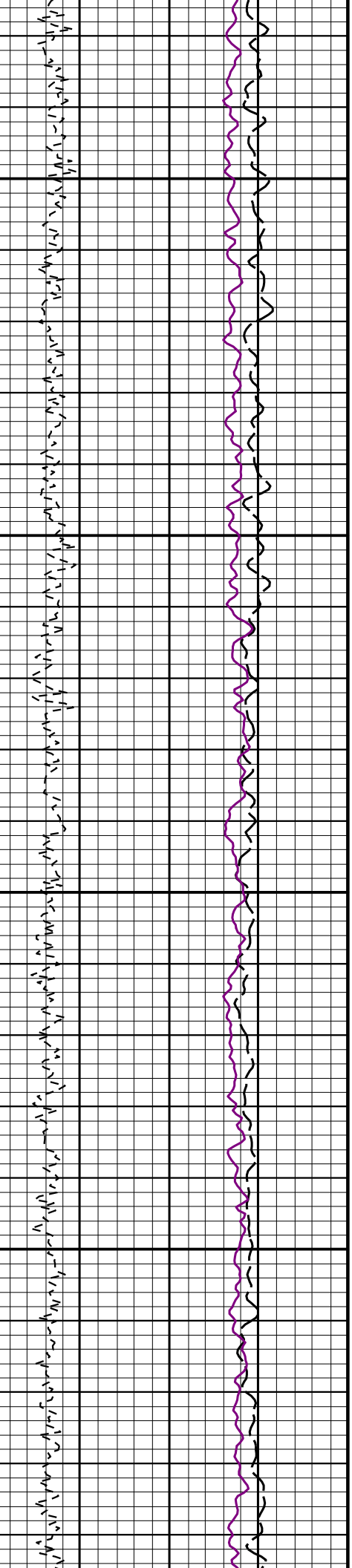
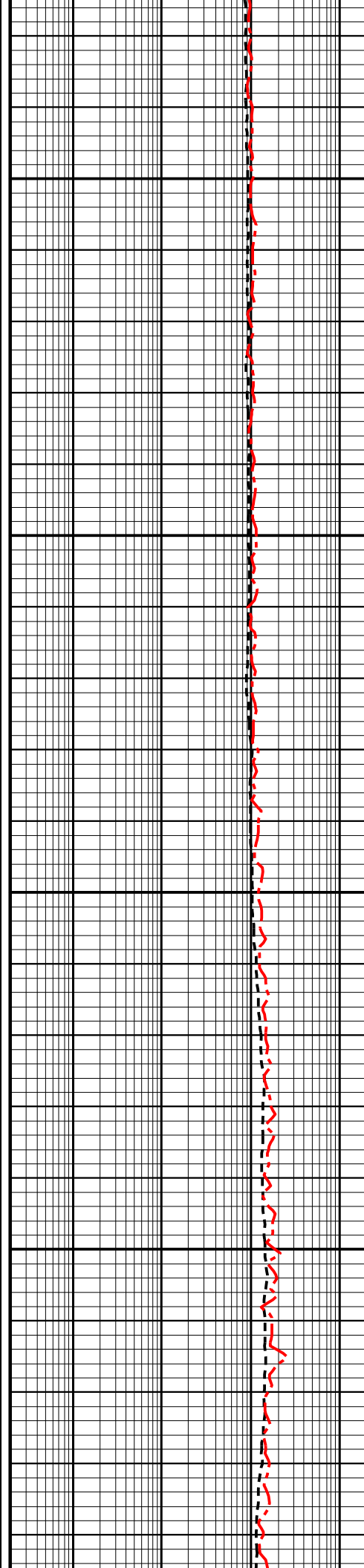


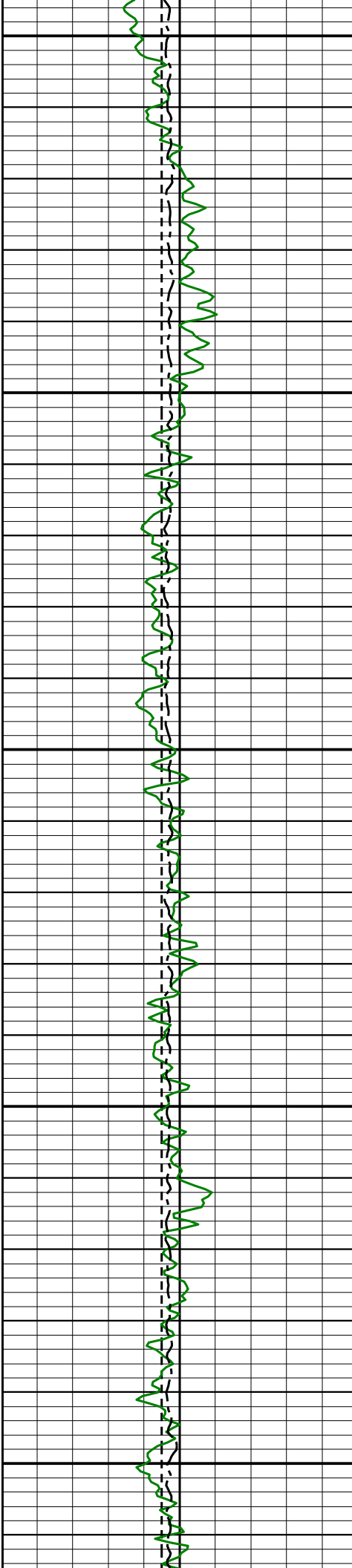
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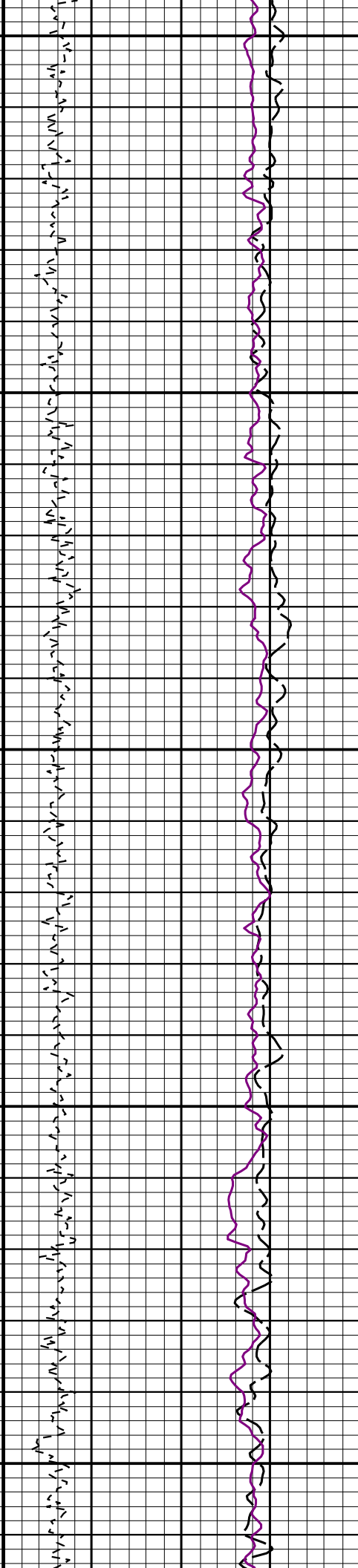
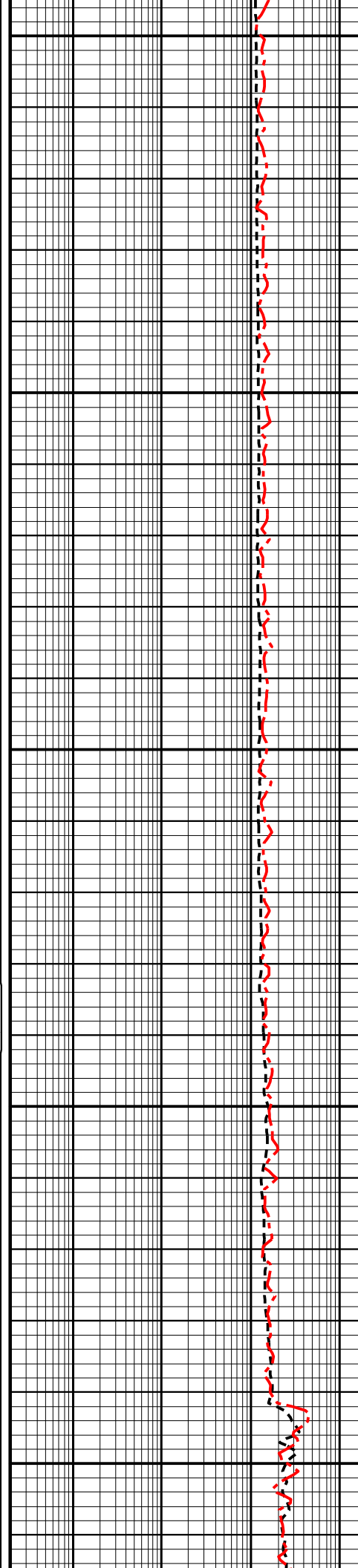
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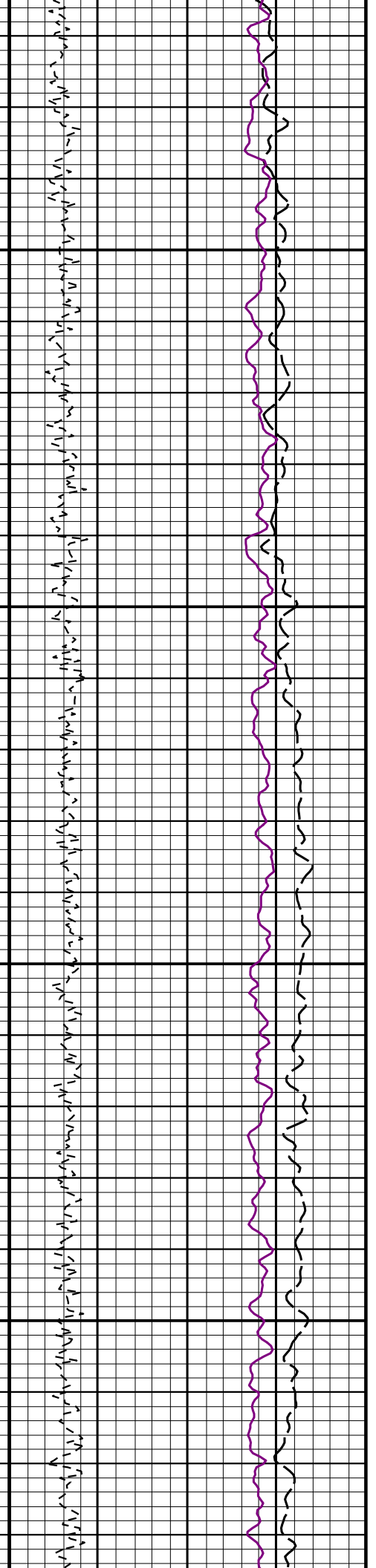
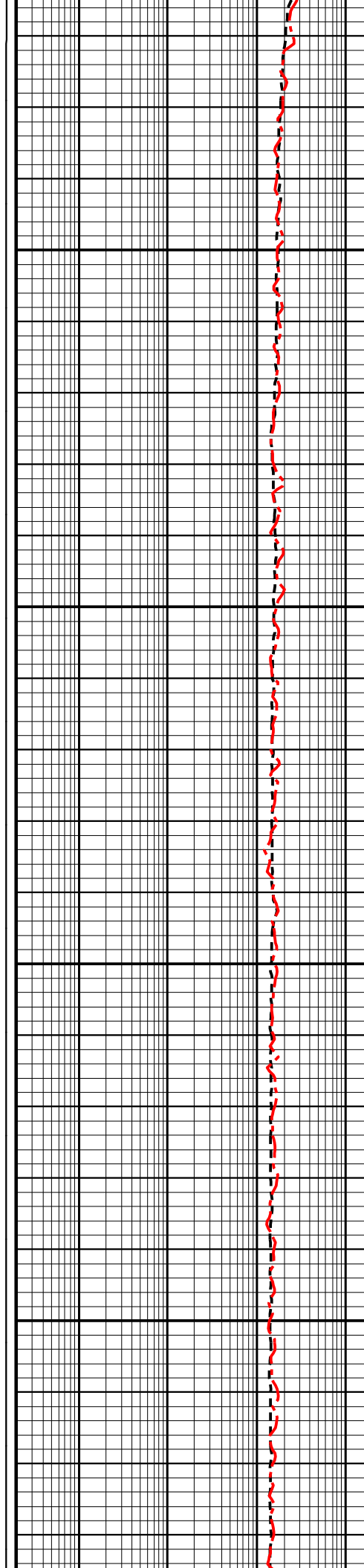
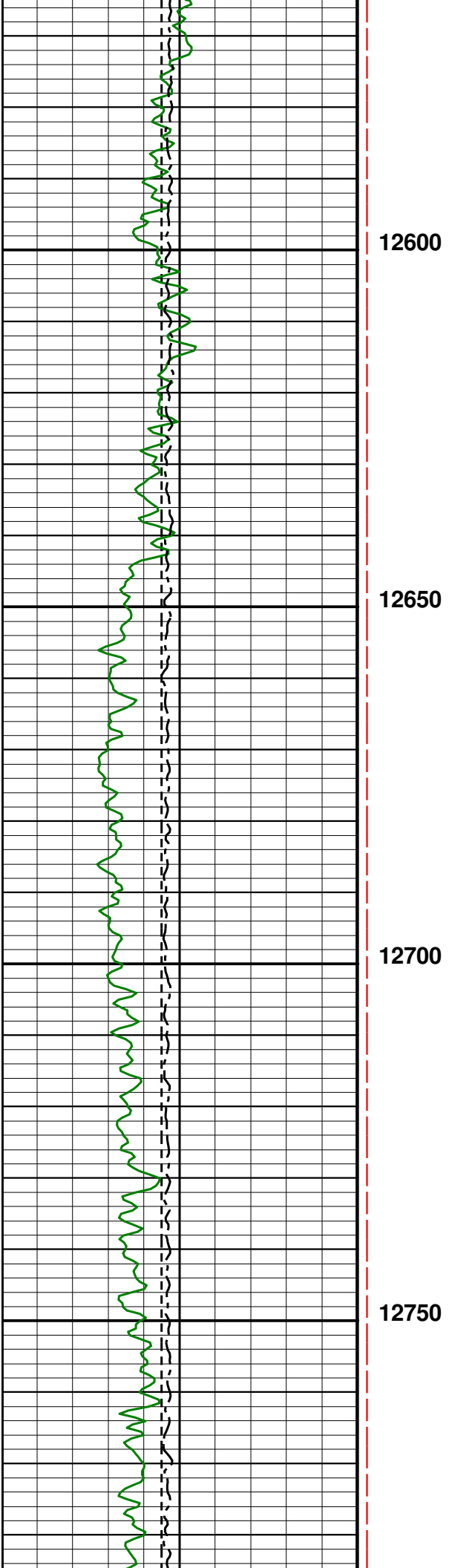
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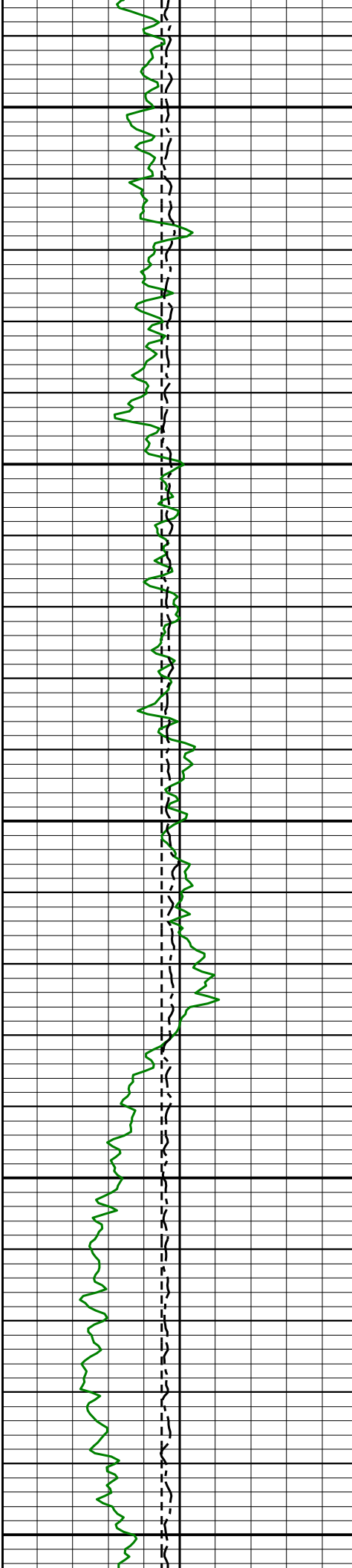
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12350







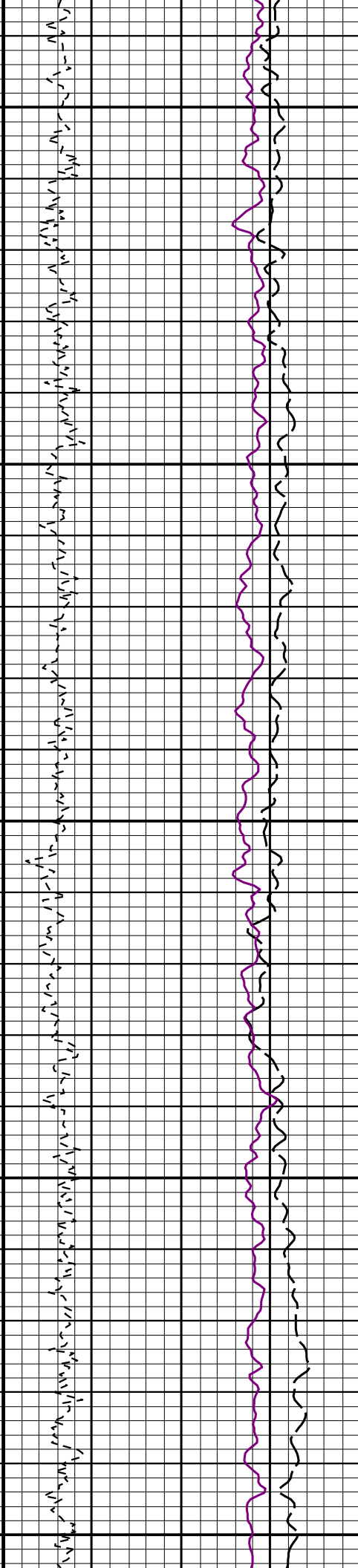
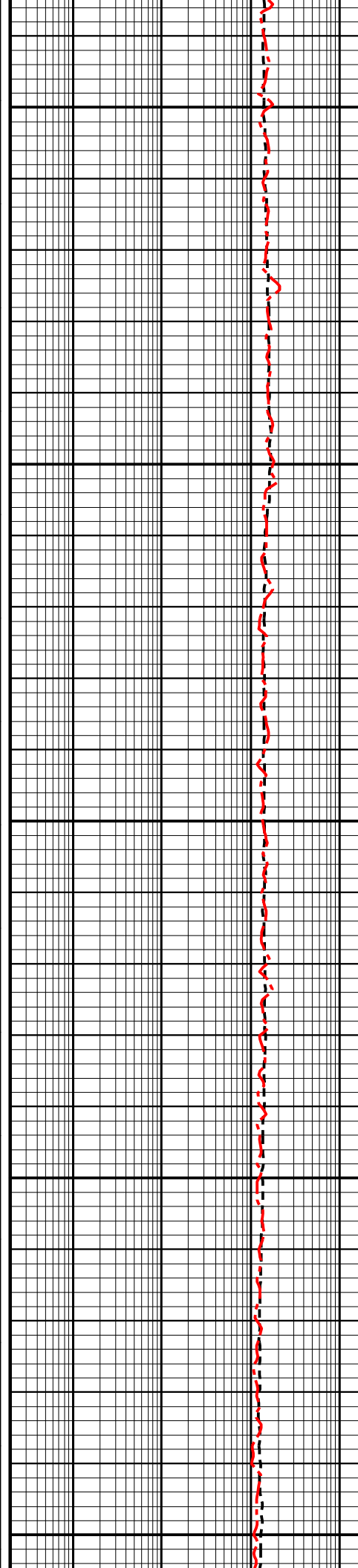
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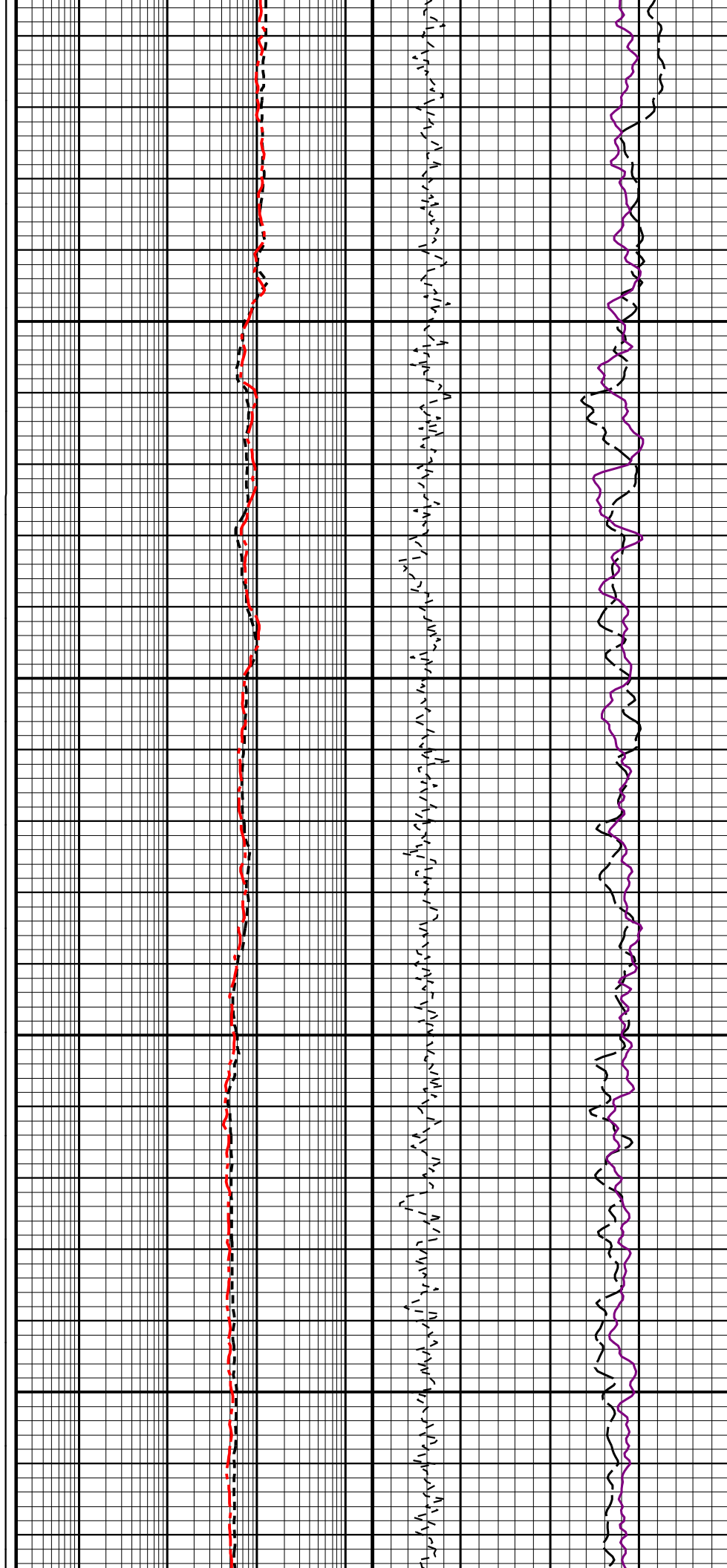
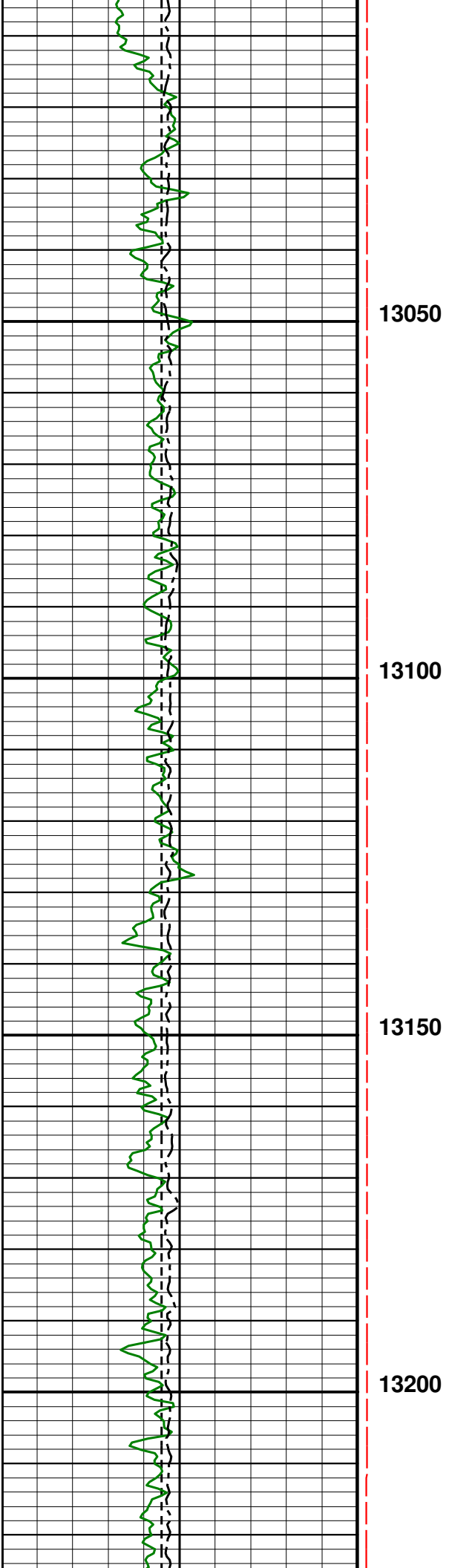
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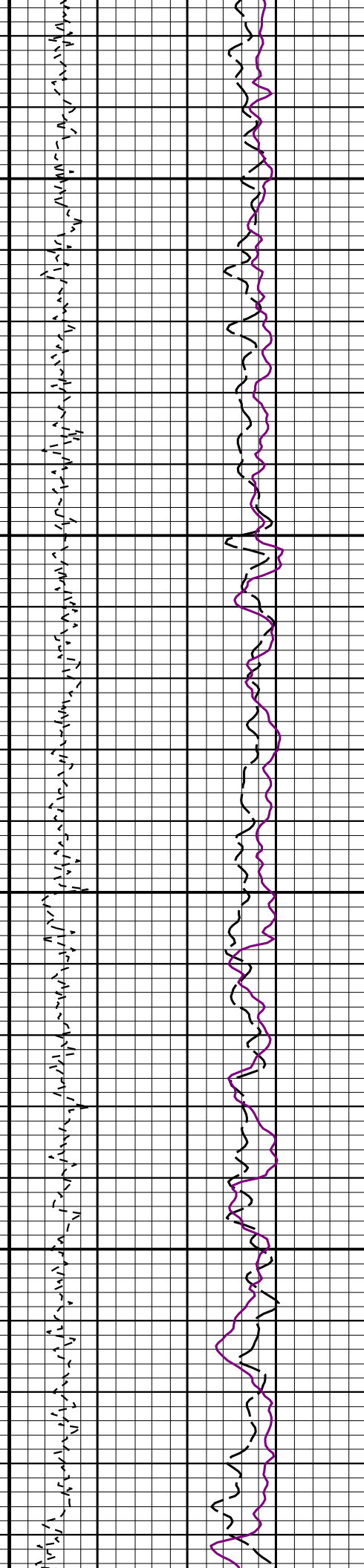
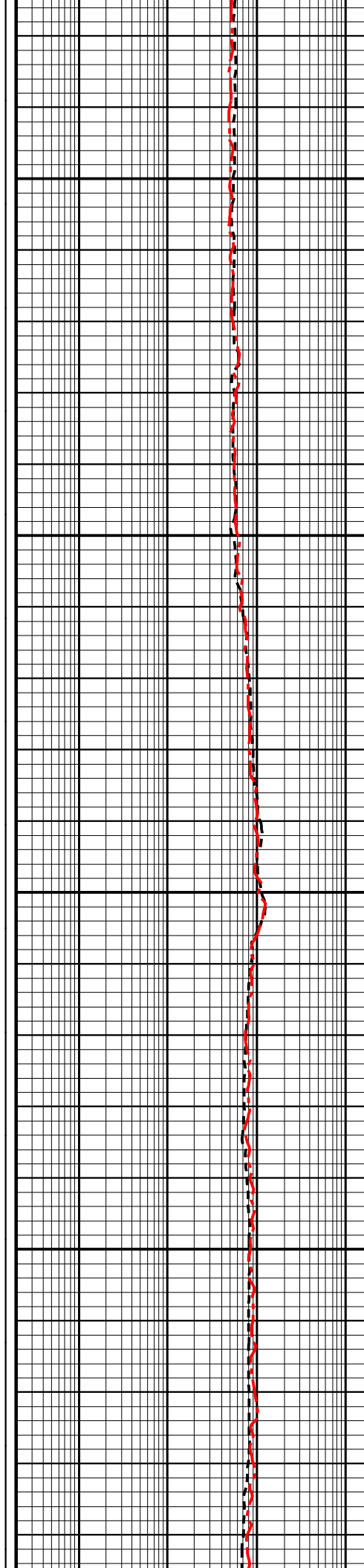
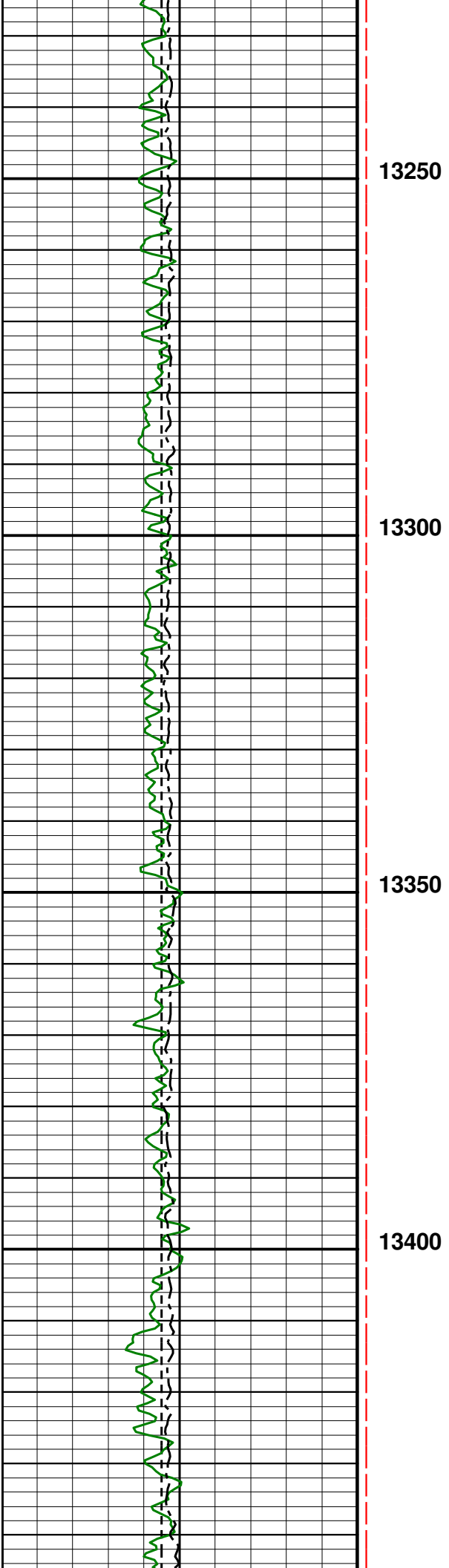
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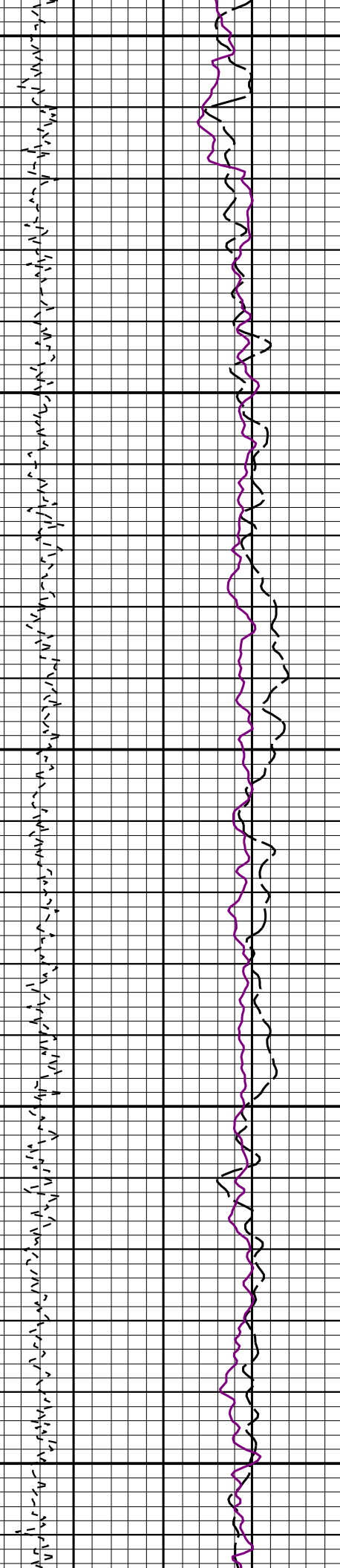
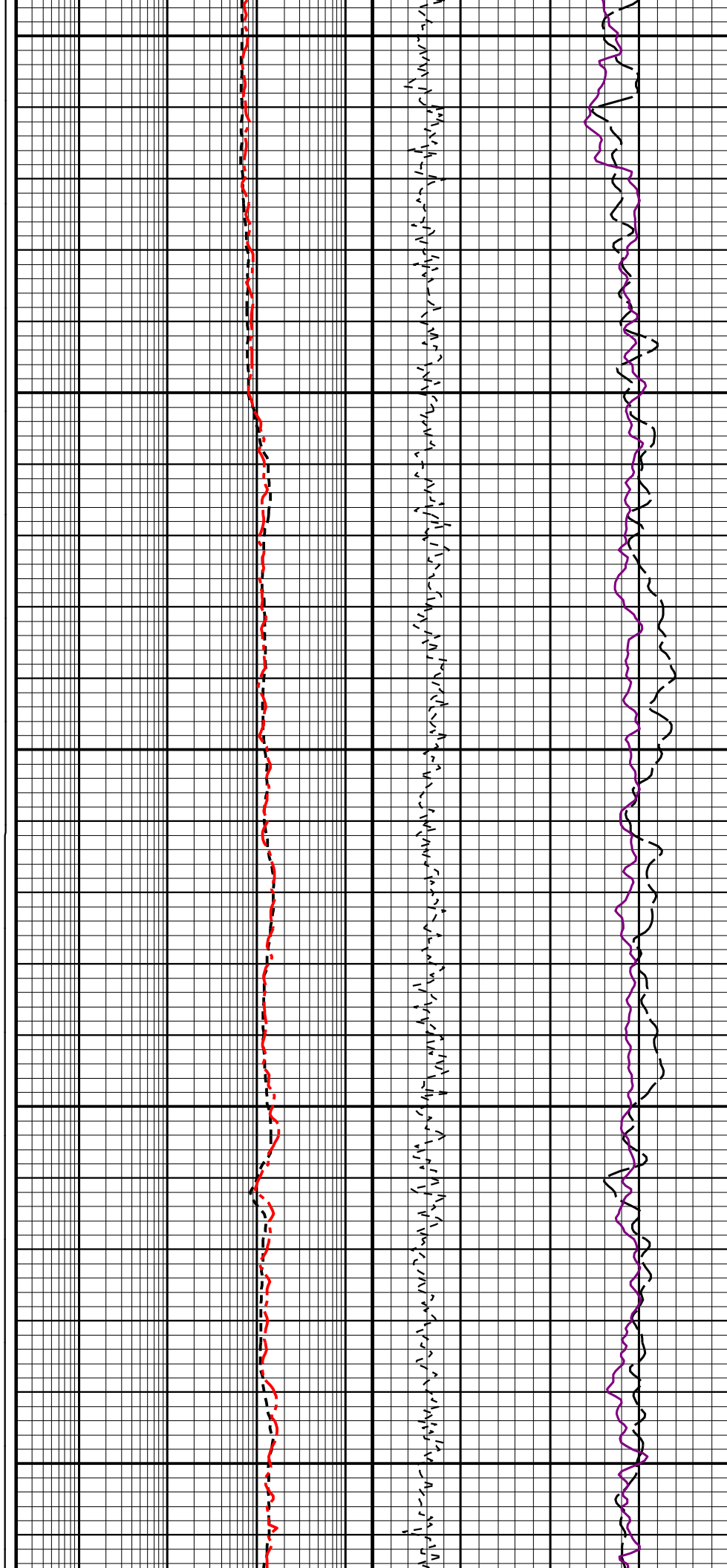
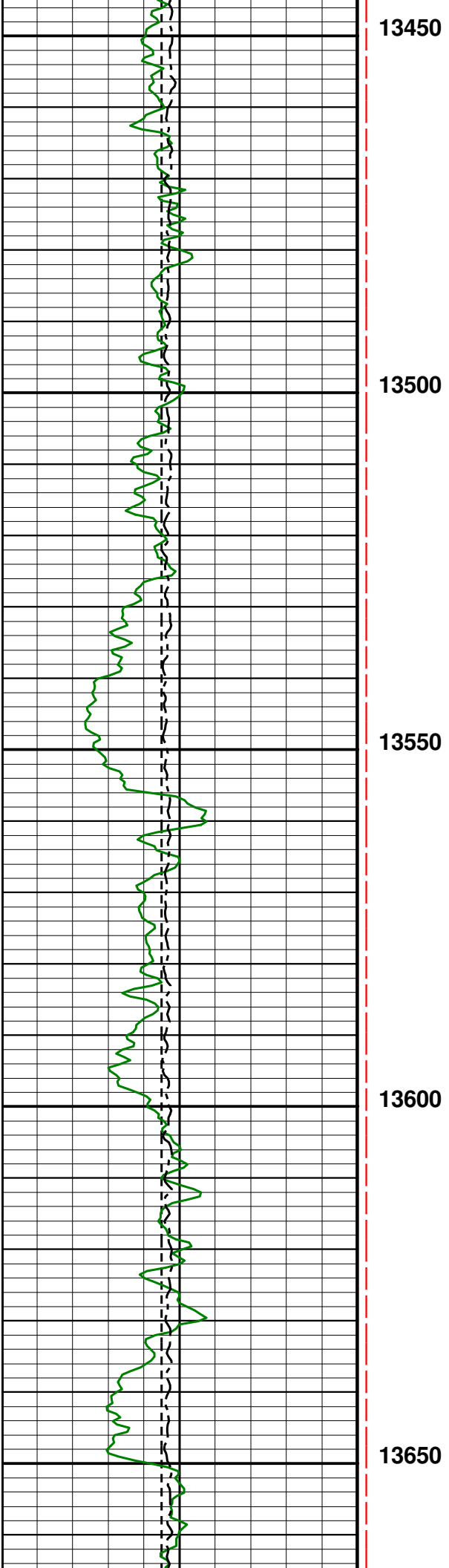
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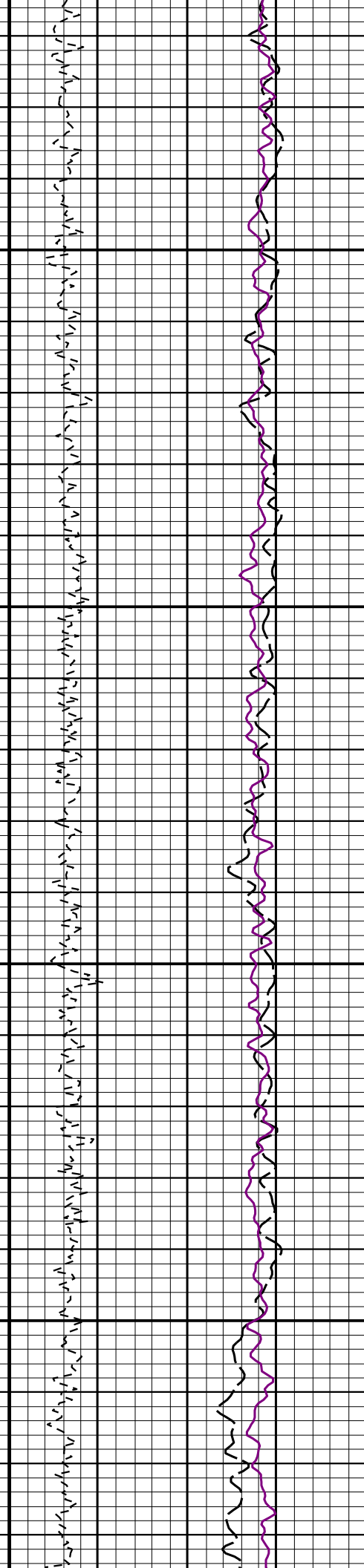
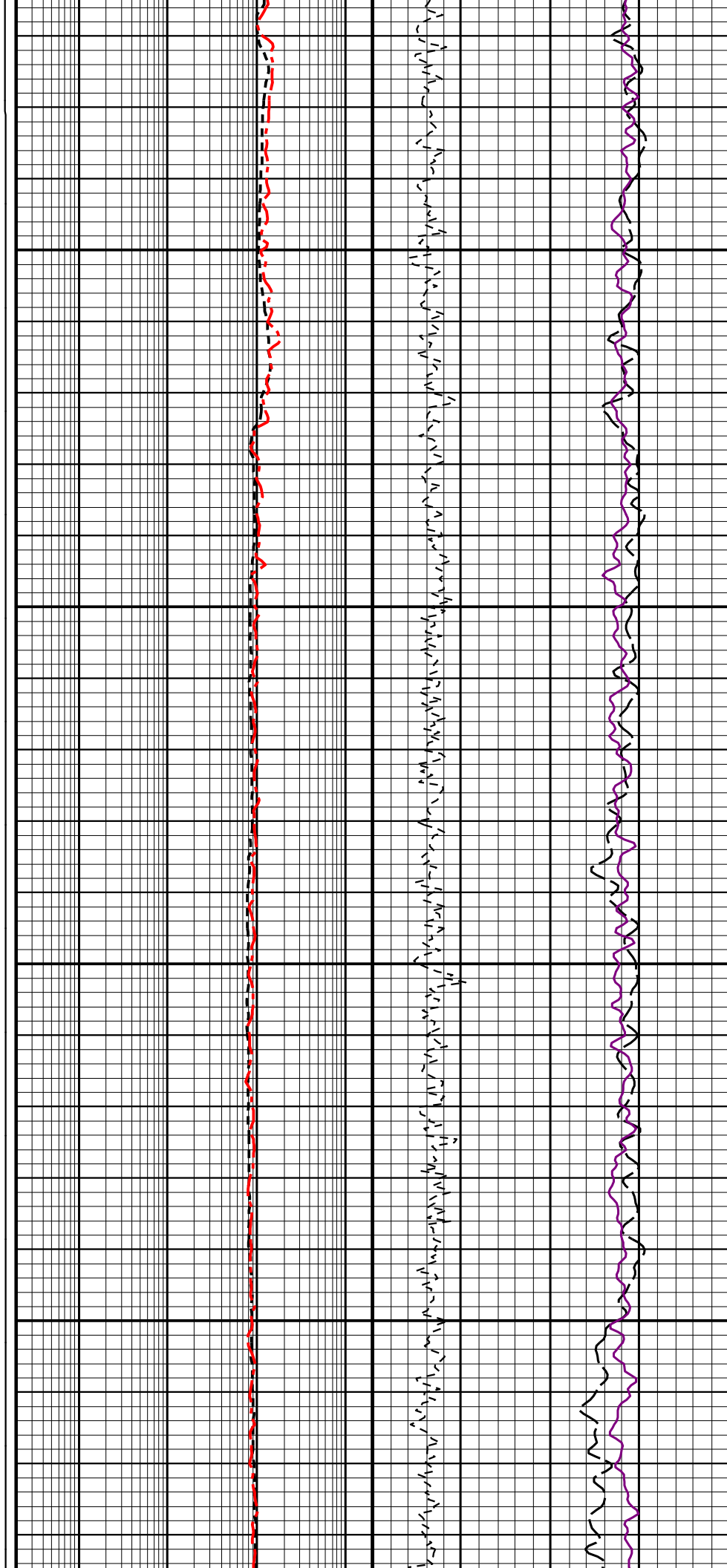
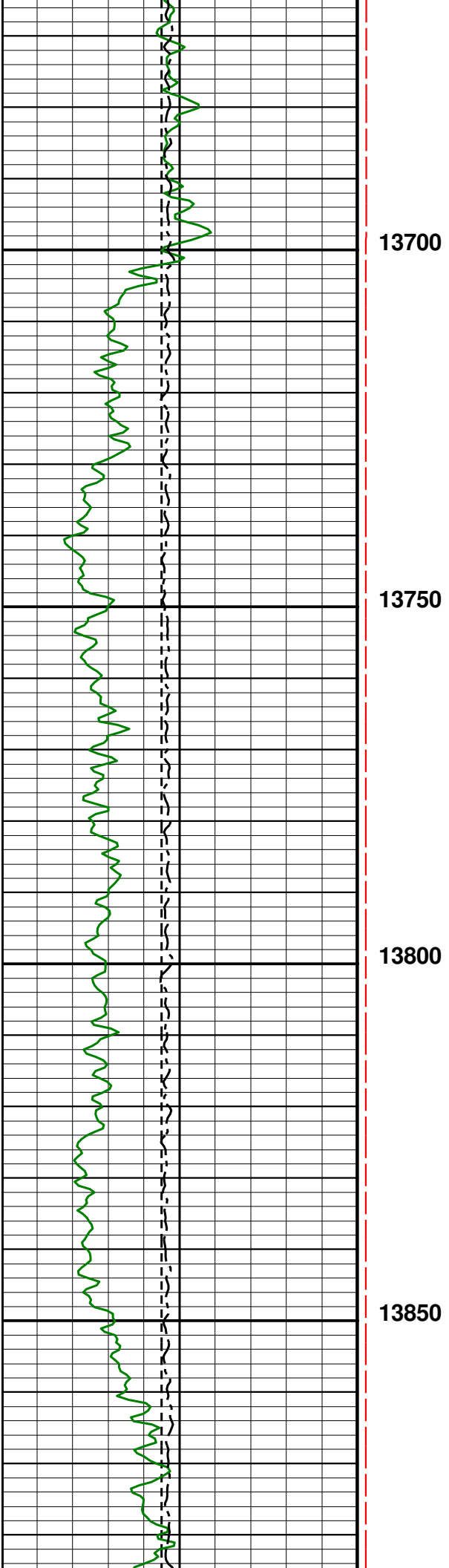
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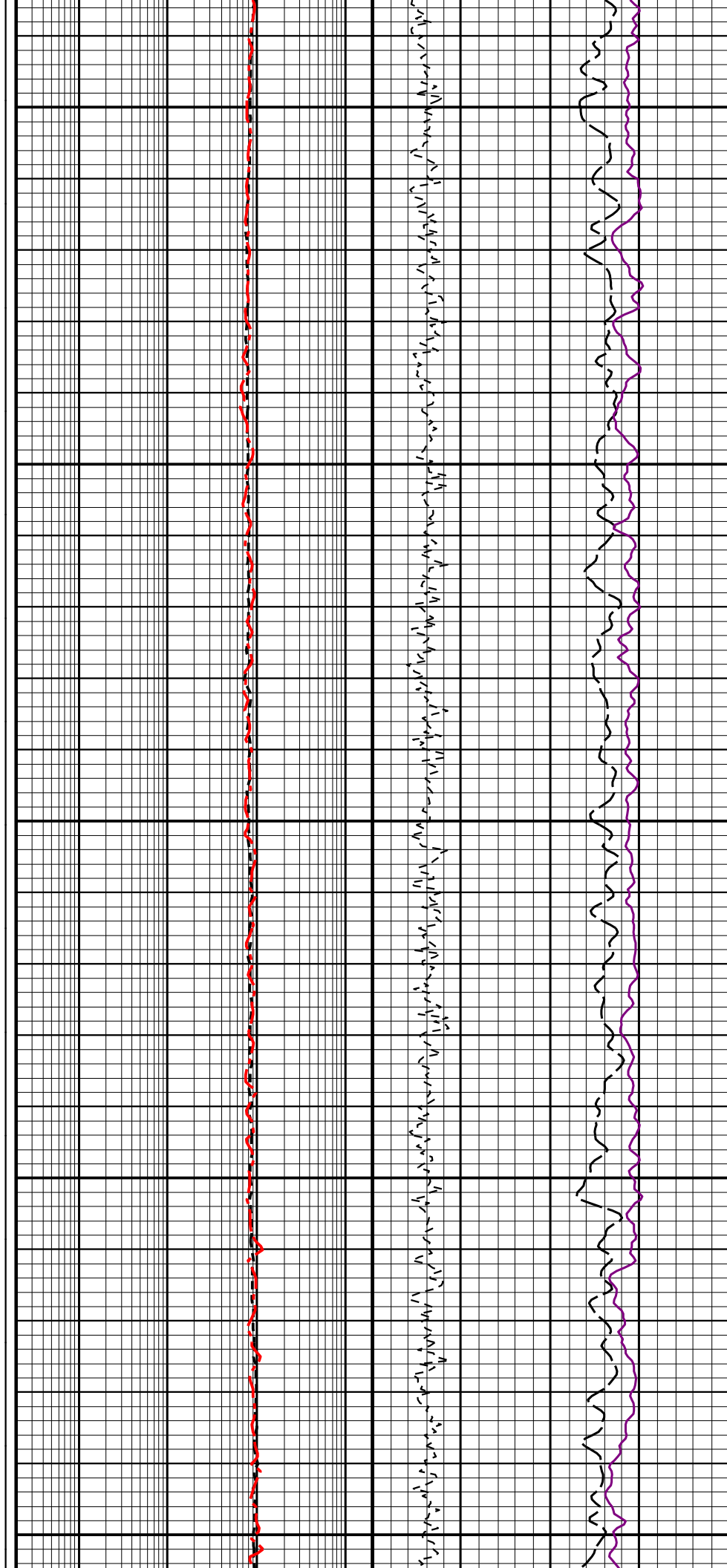
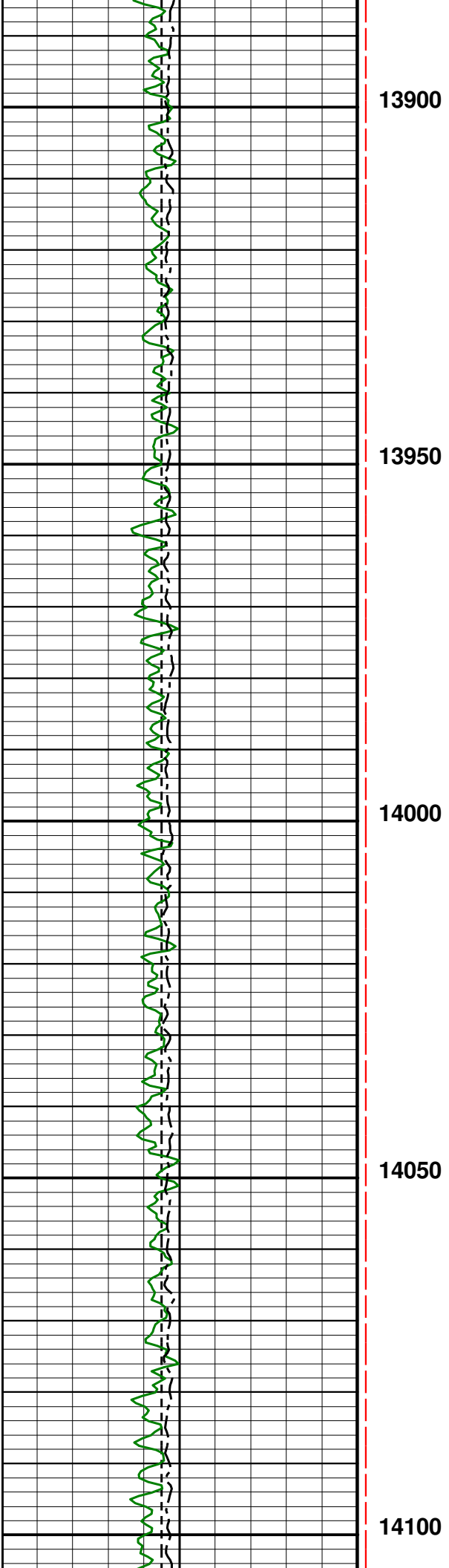


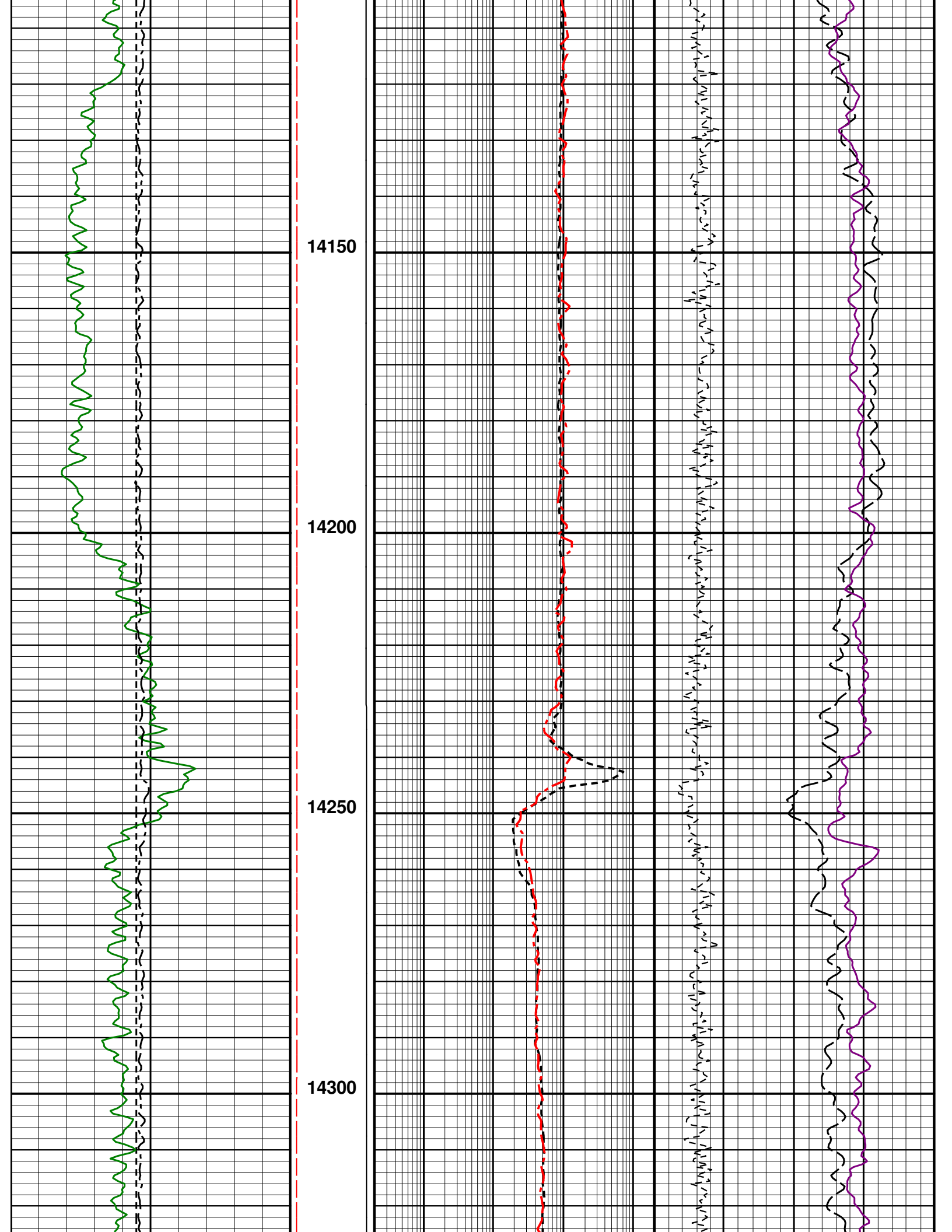


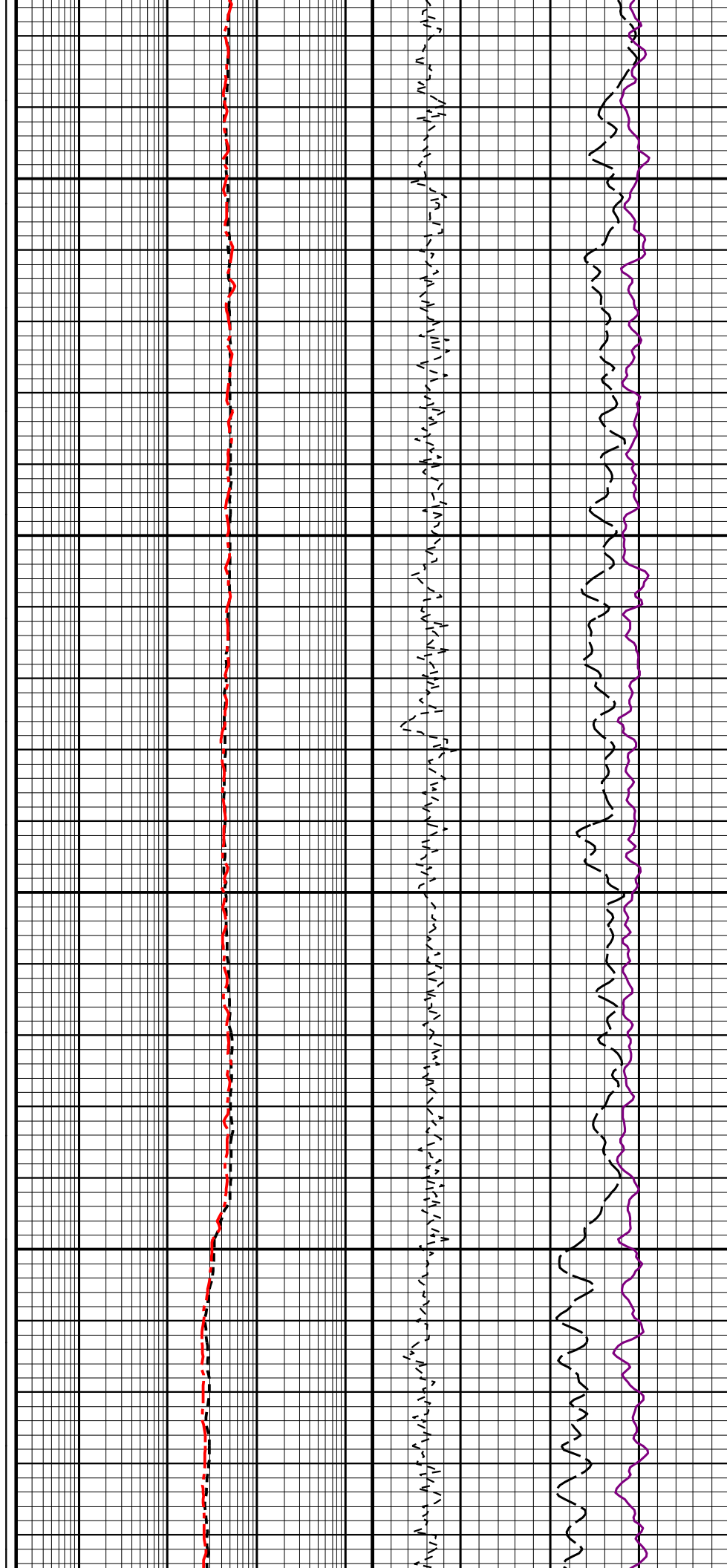
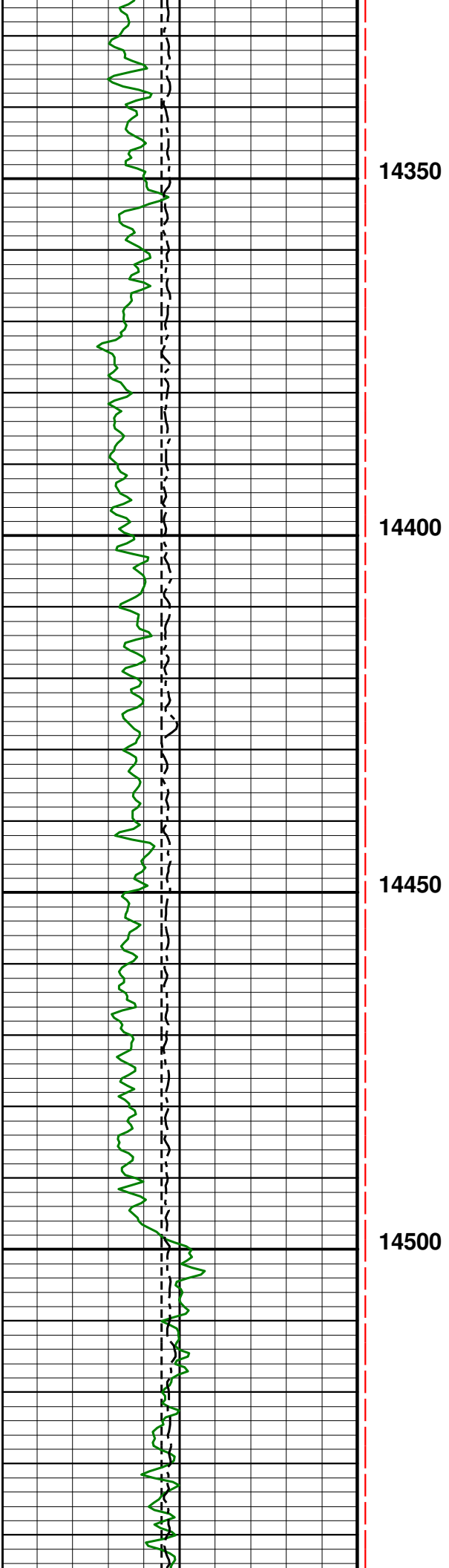


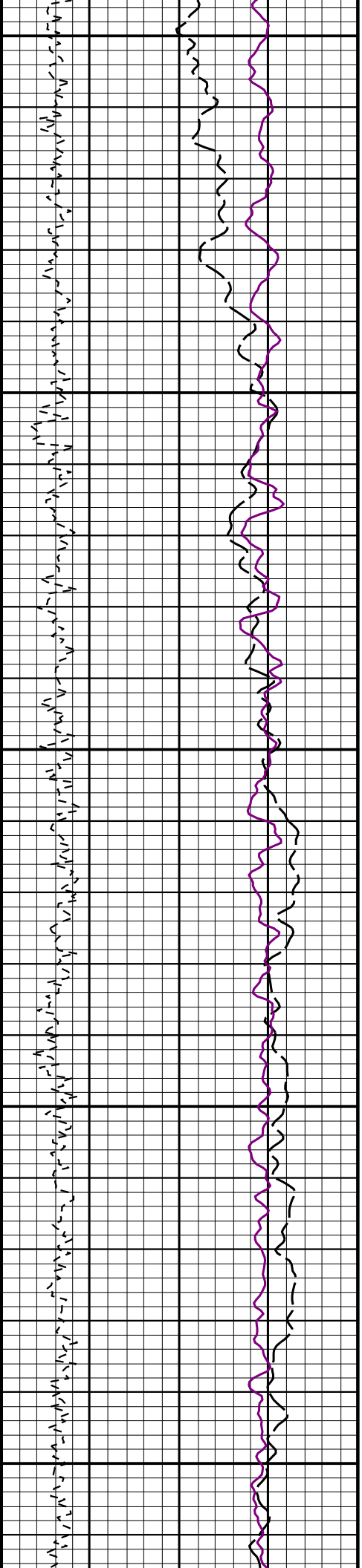
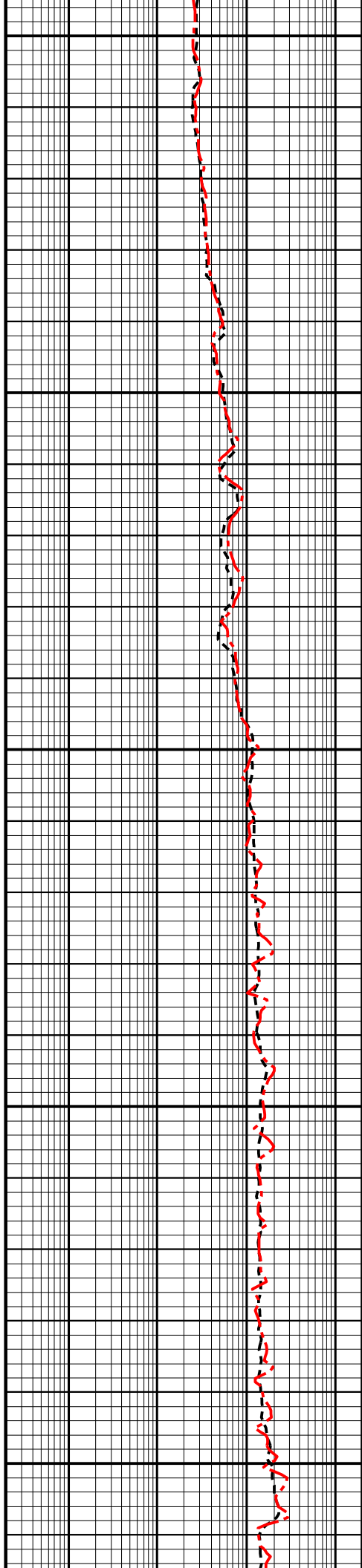
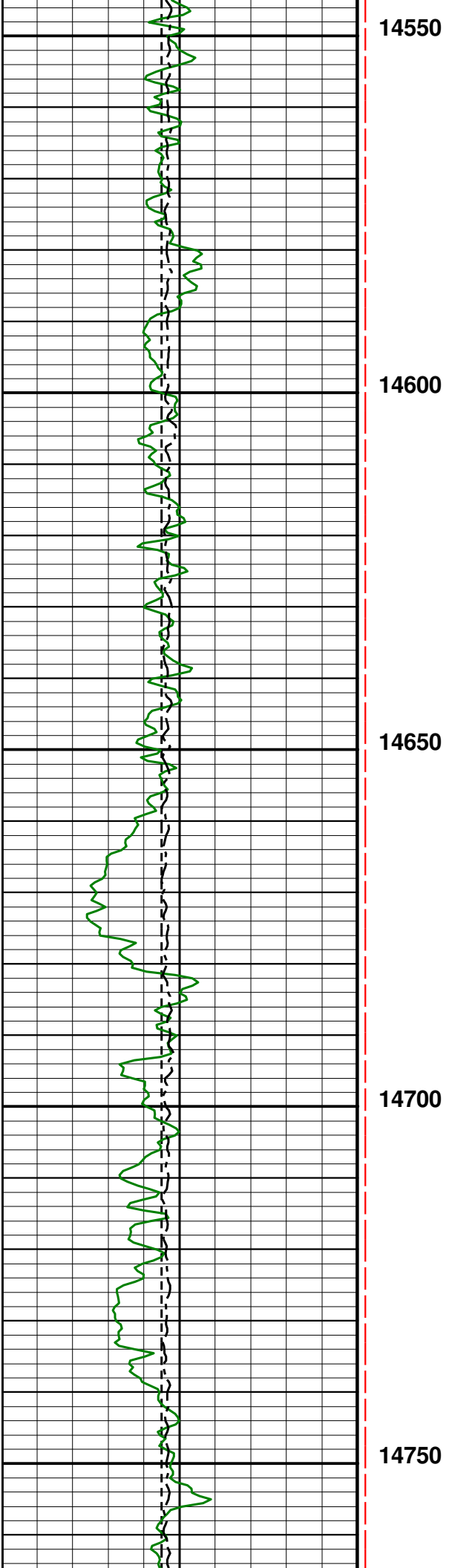


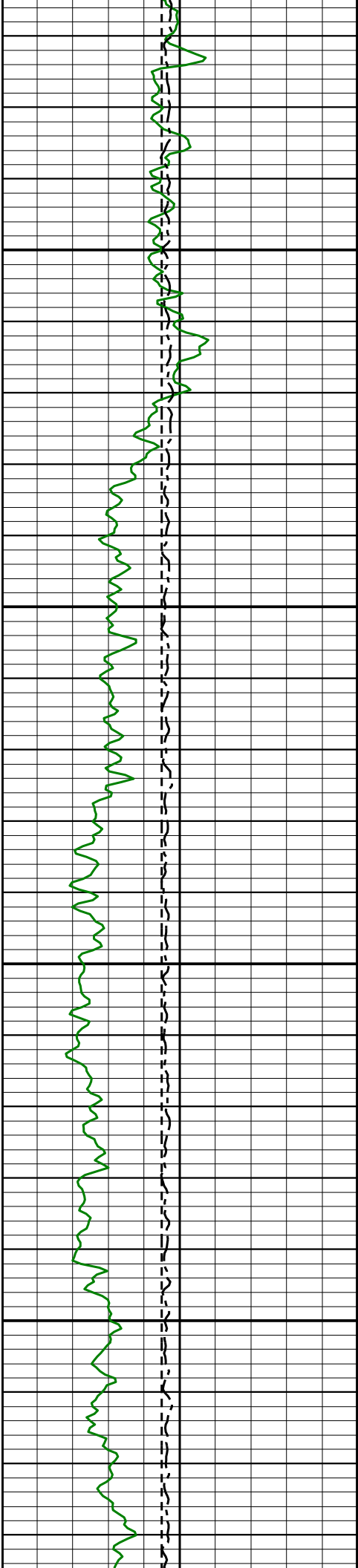










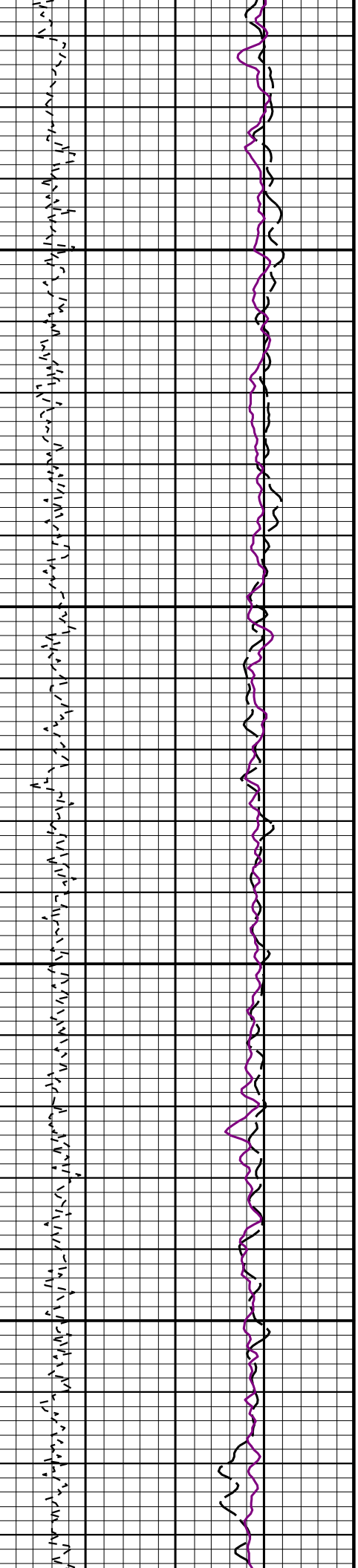
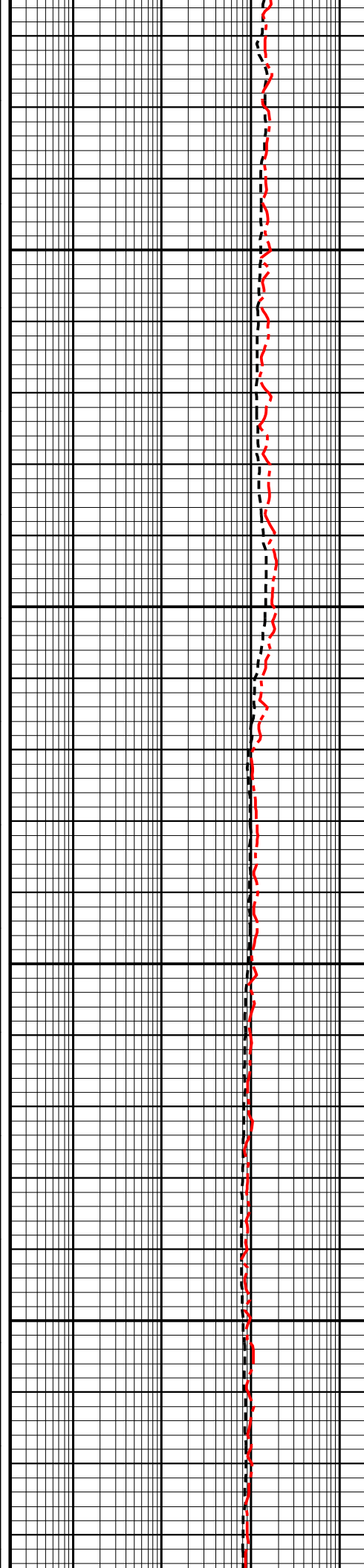


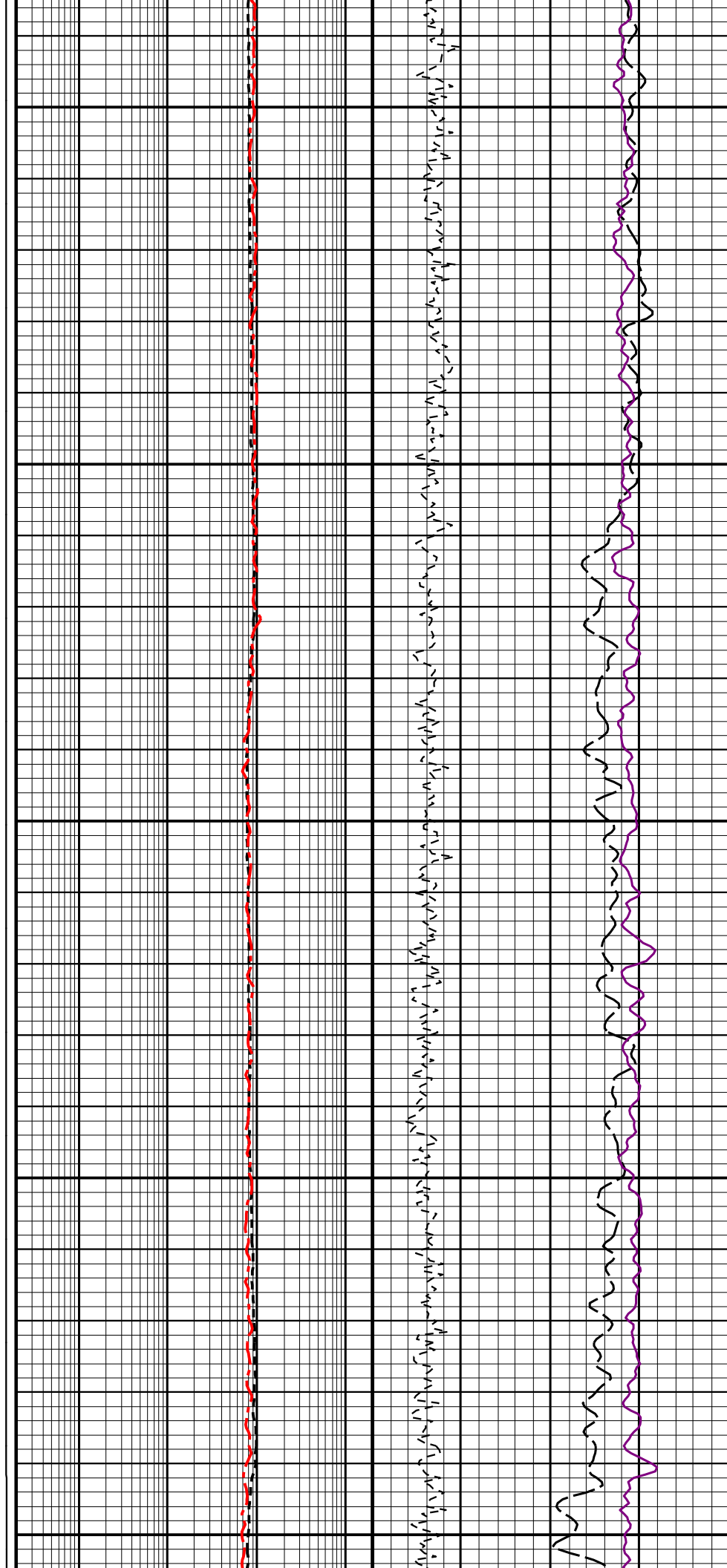
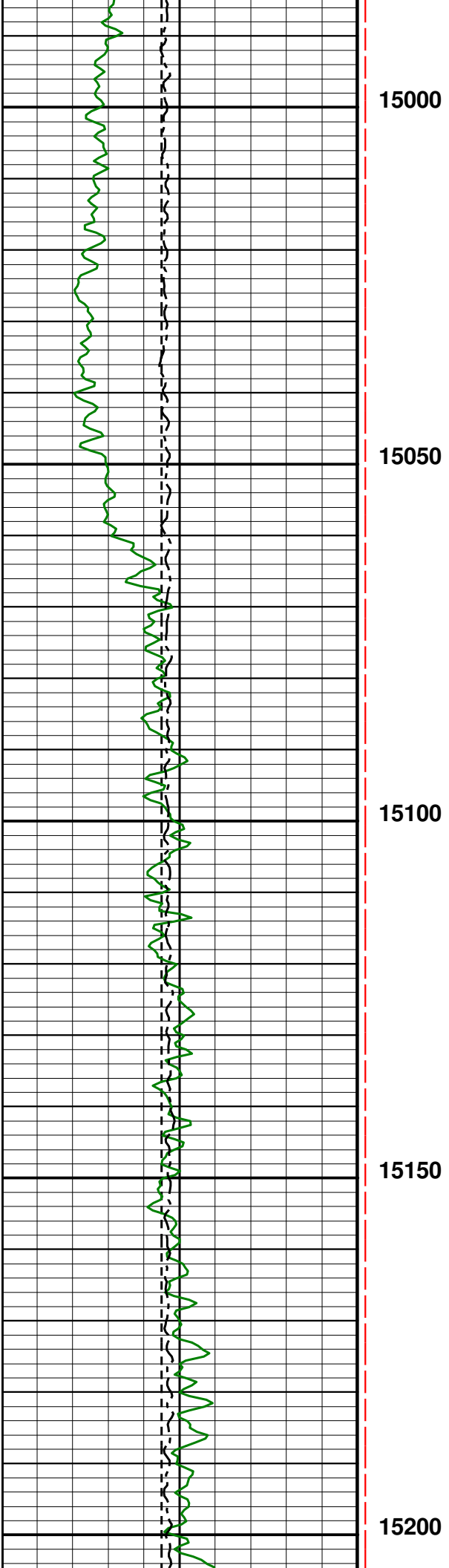
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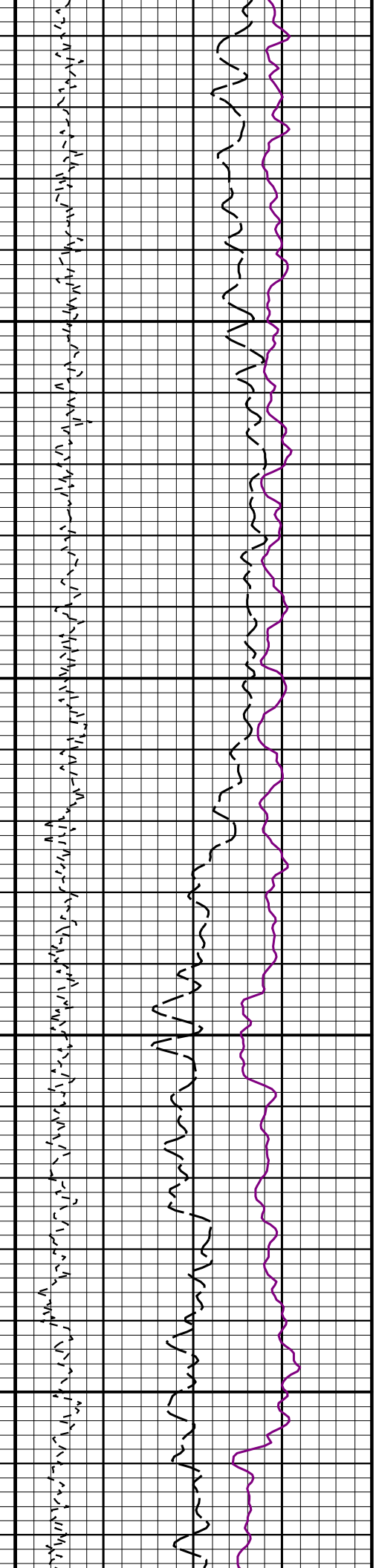
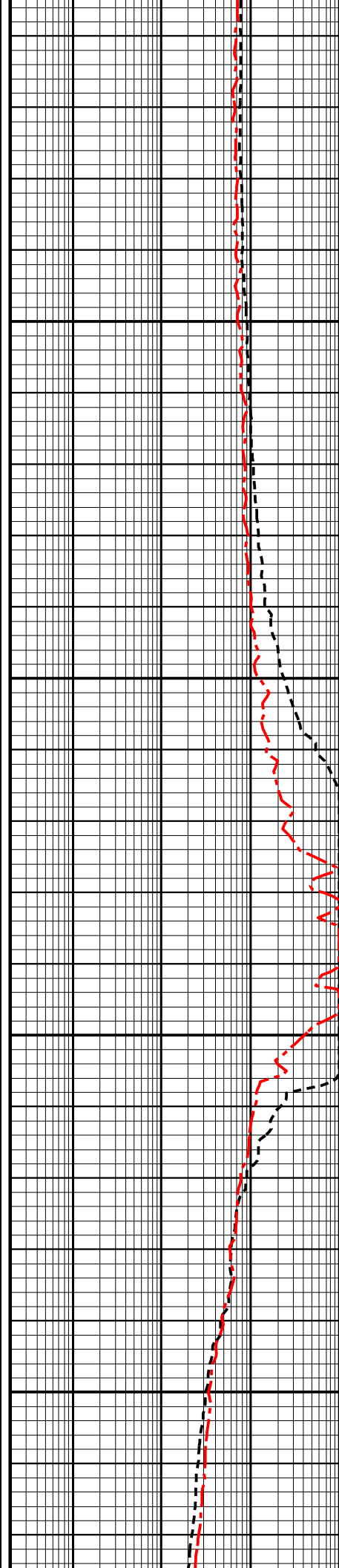
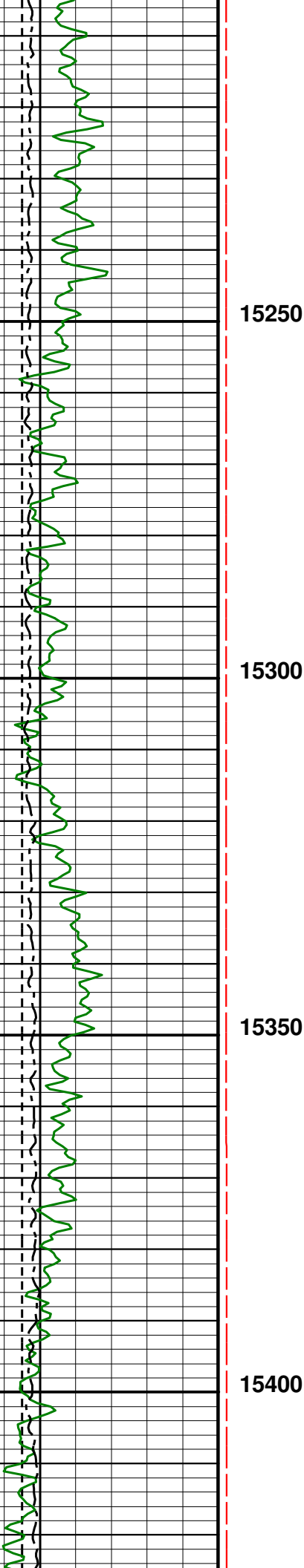
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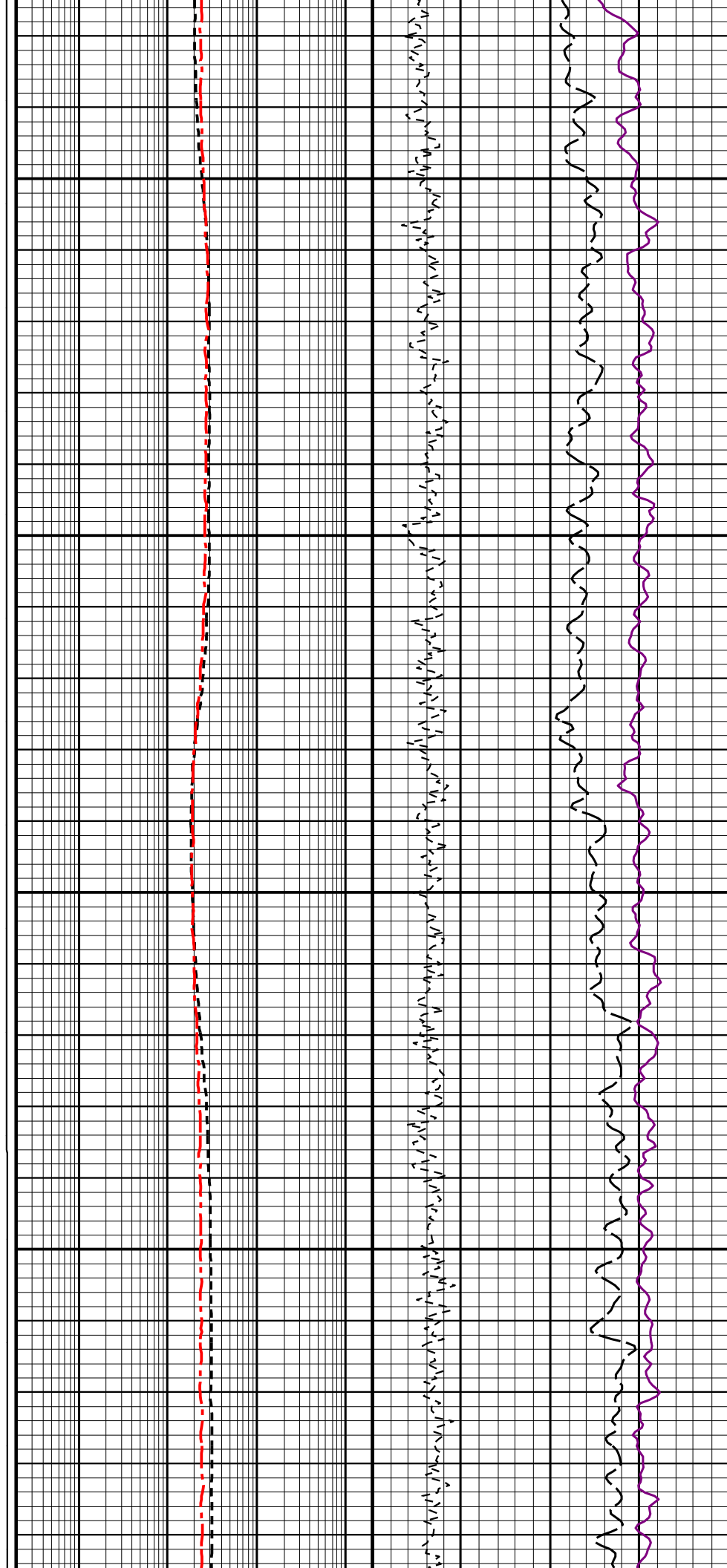
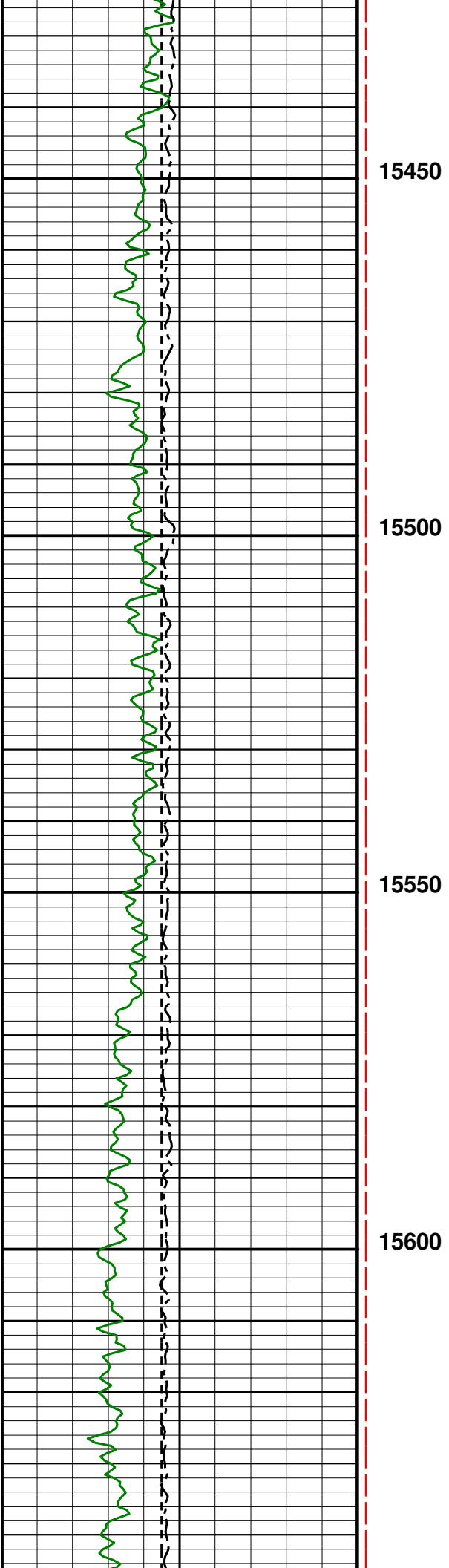
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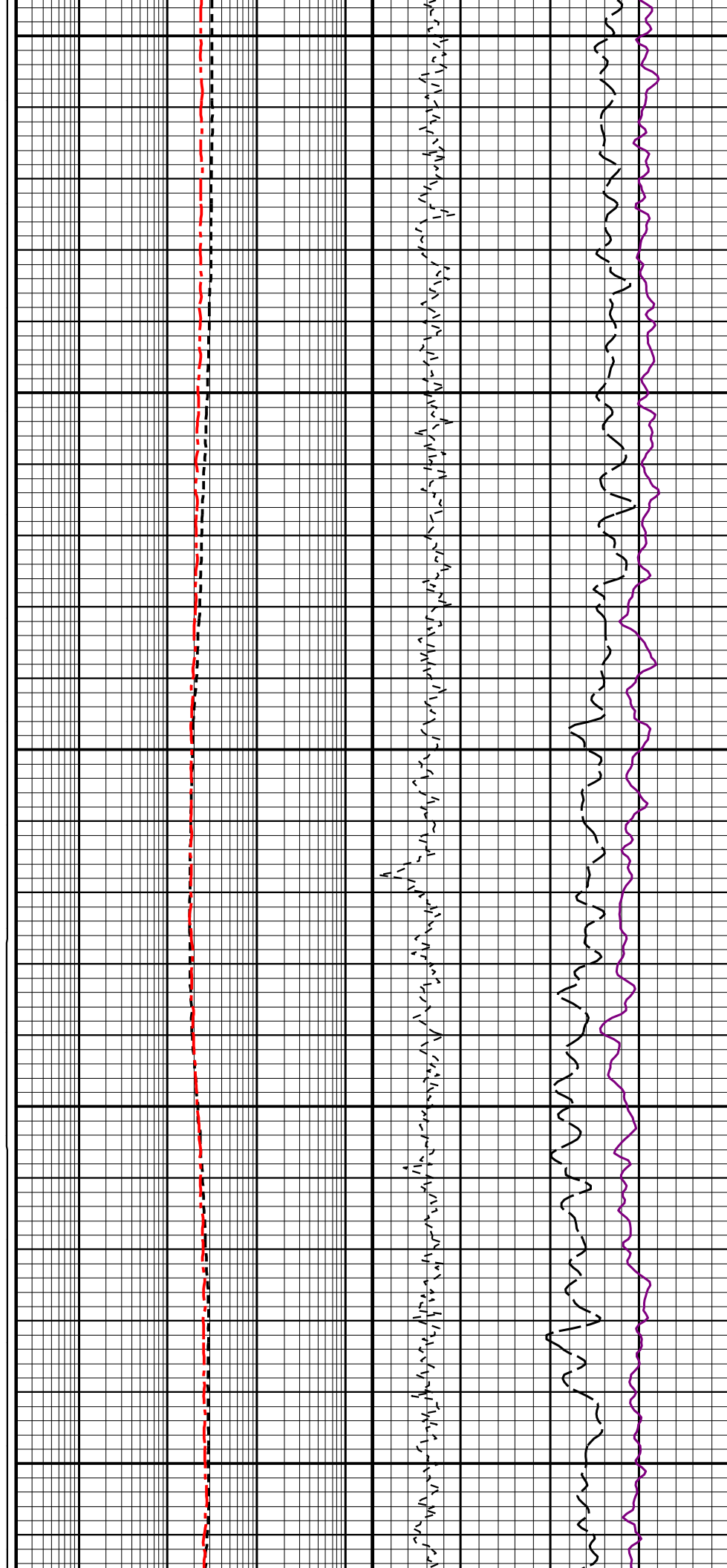
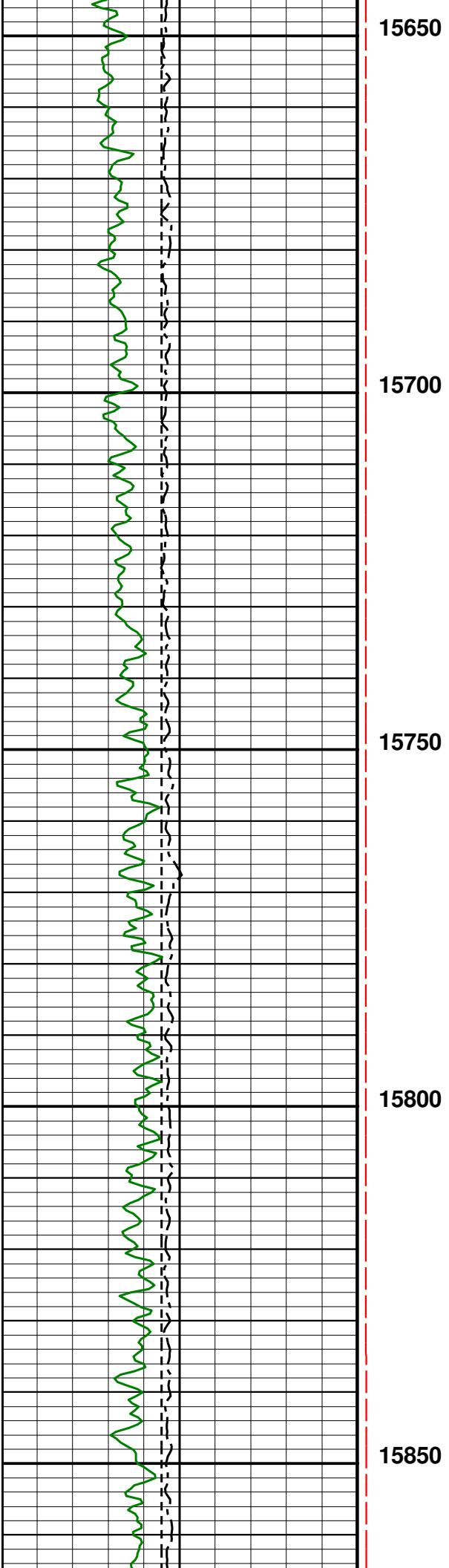
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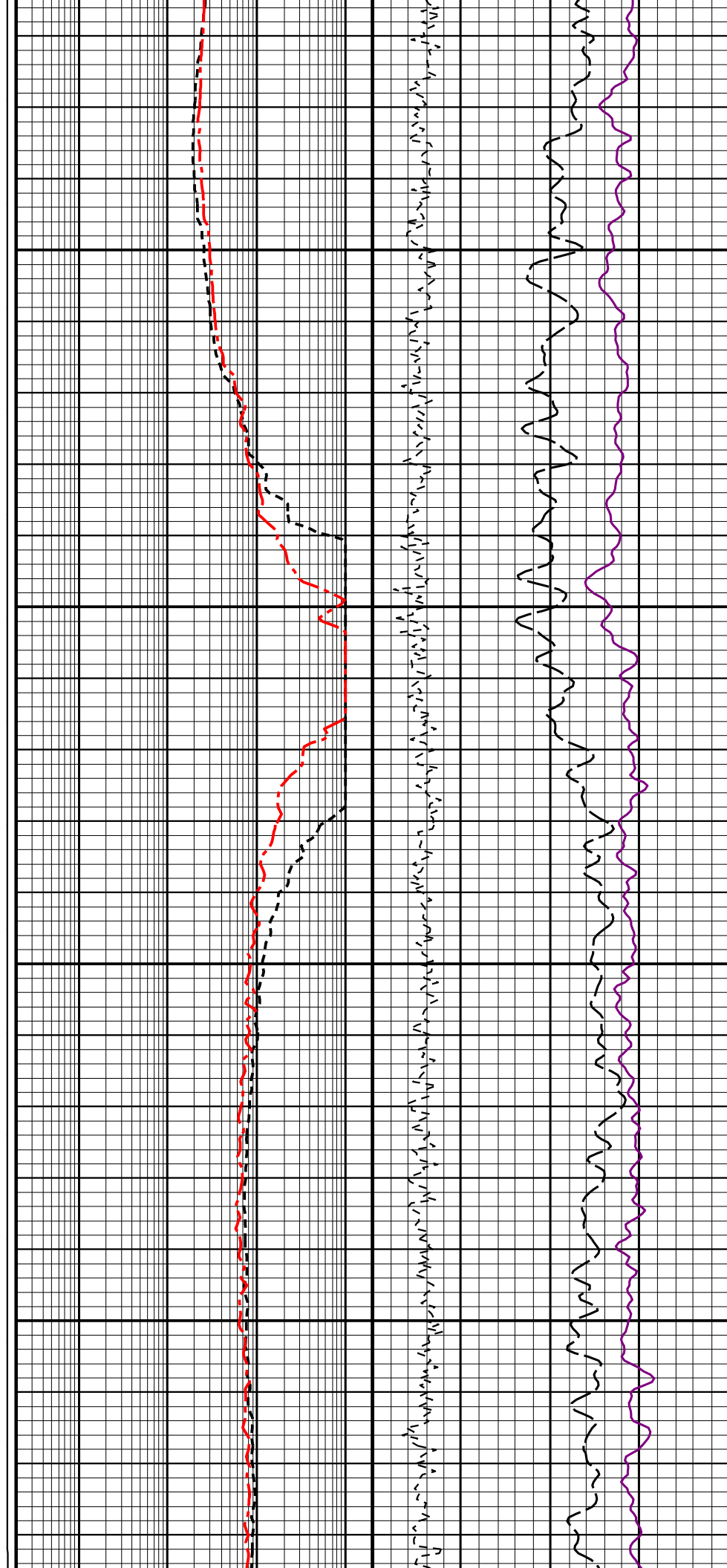
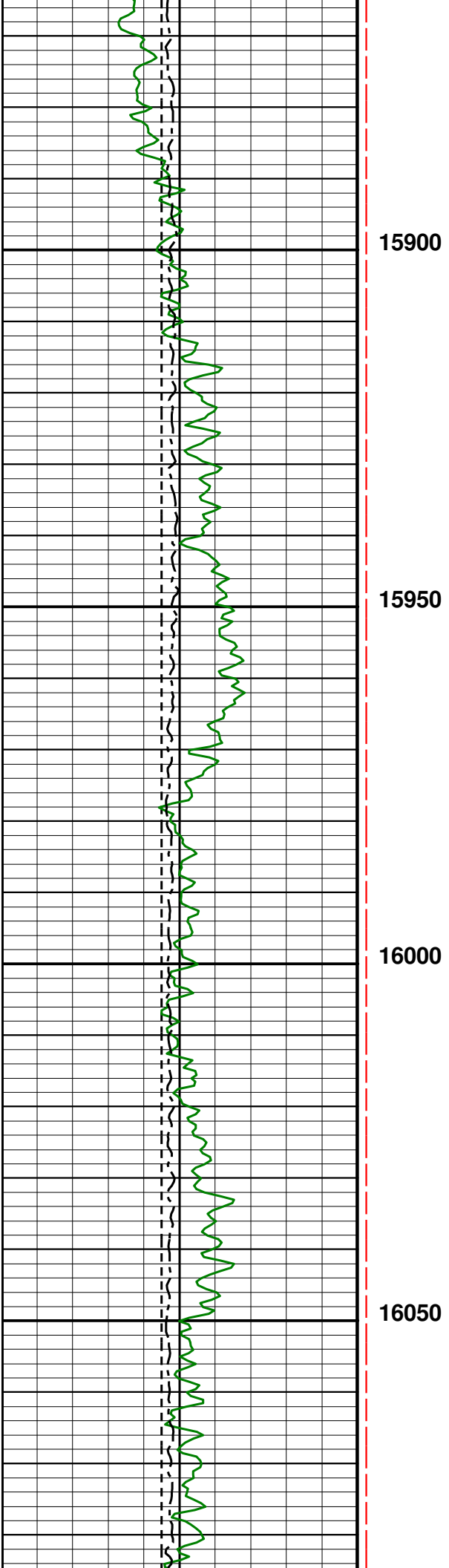


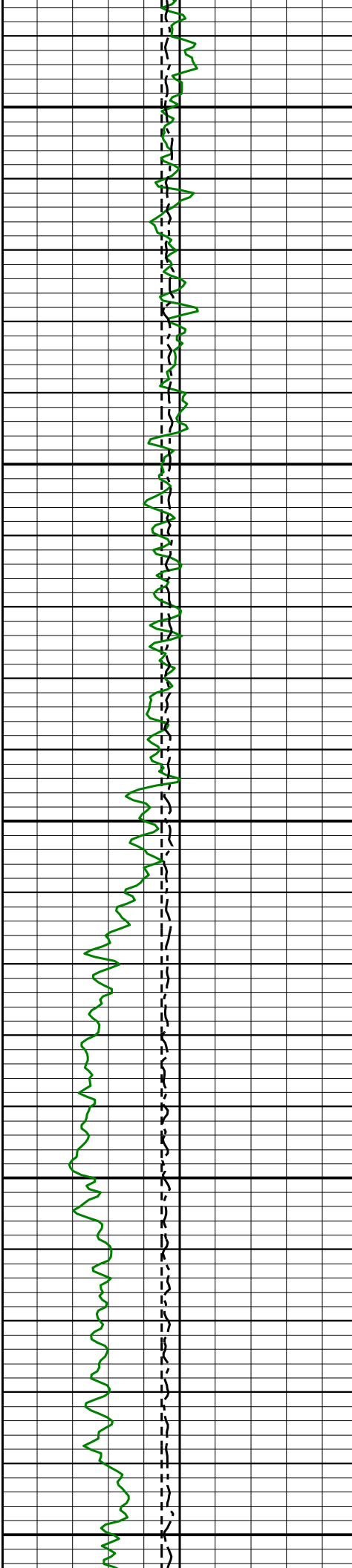












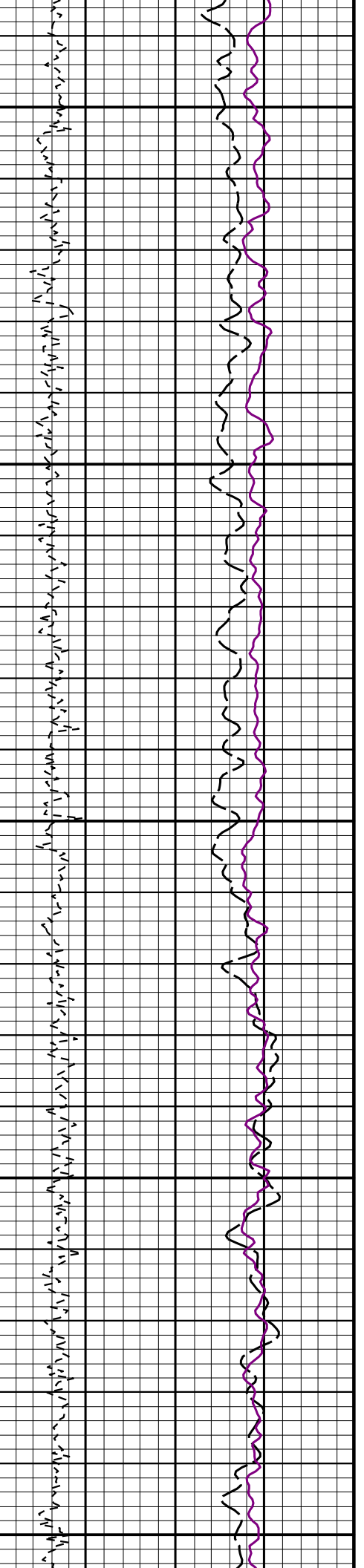
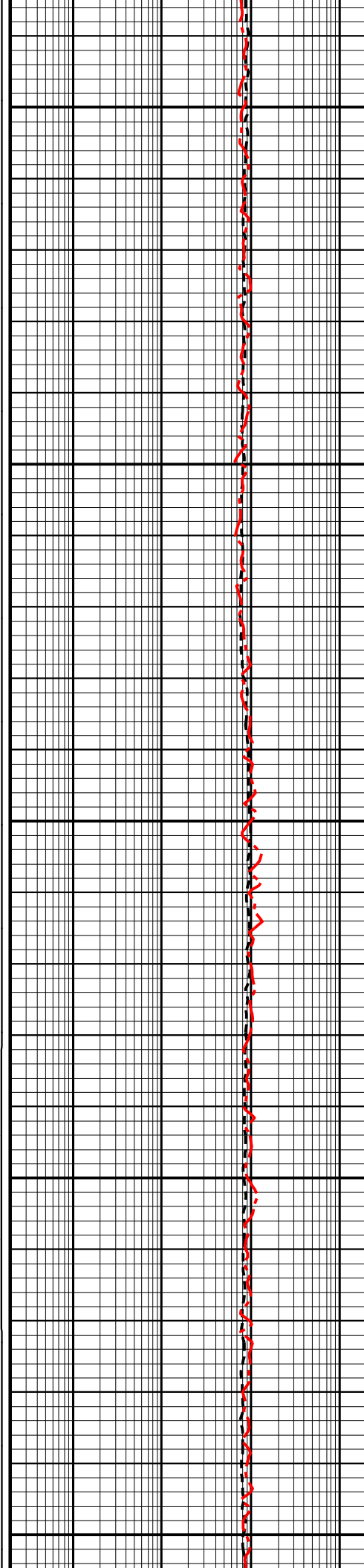
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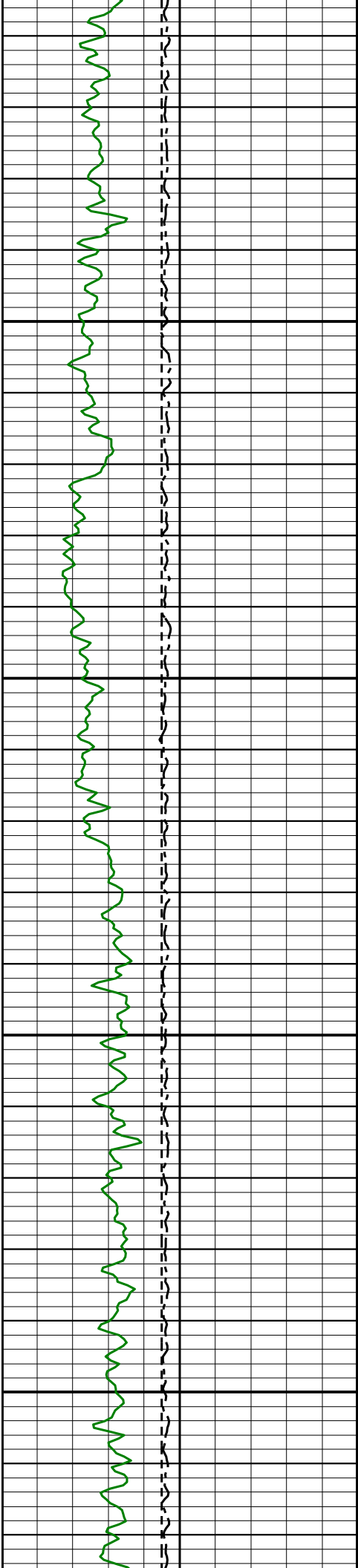
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16300



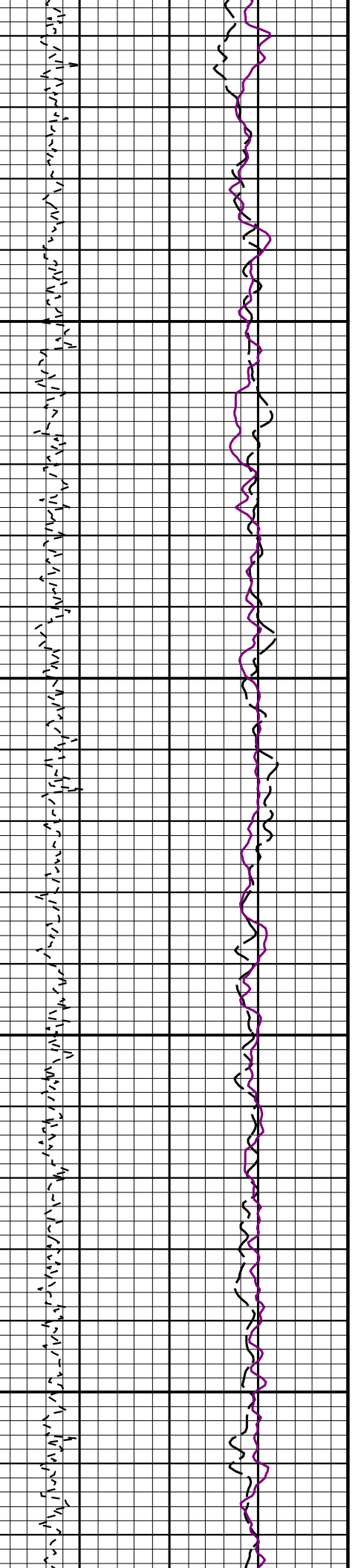
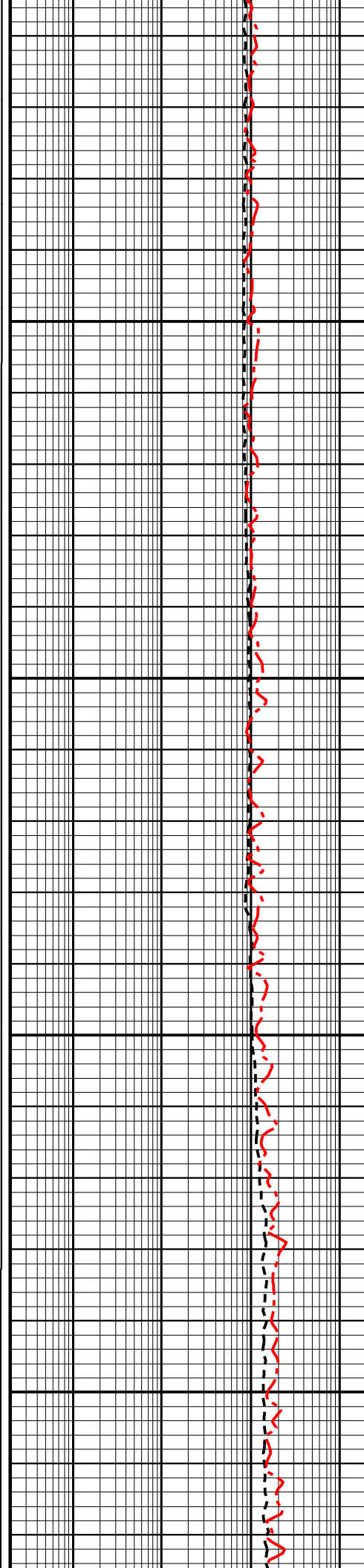


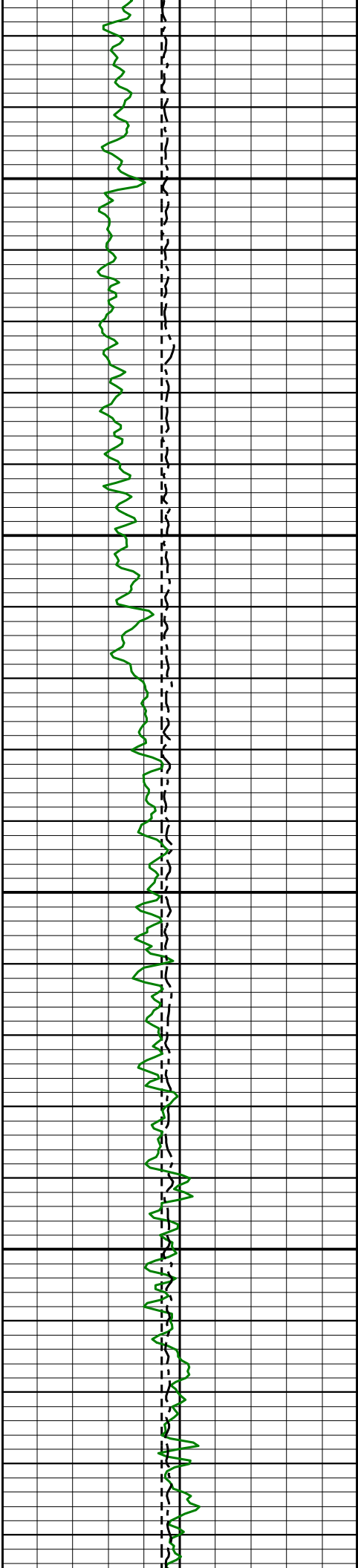
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16400

16450

16500



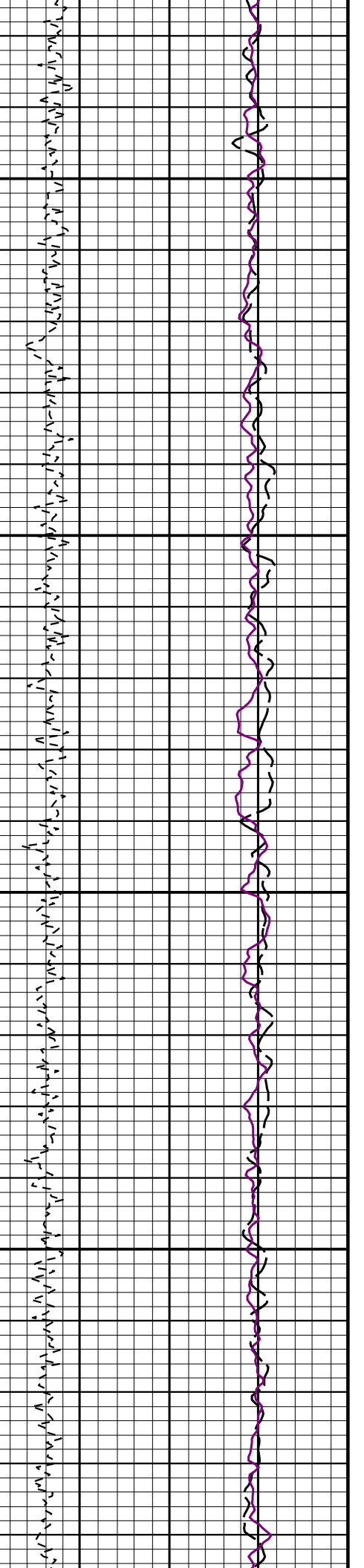
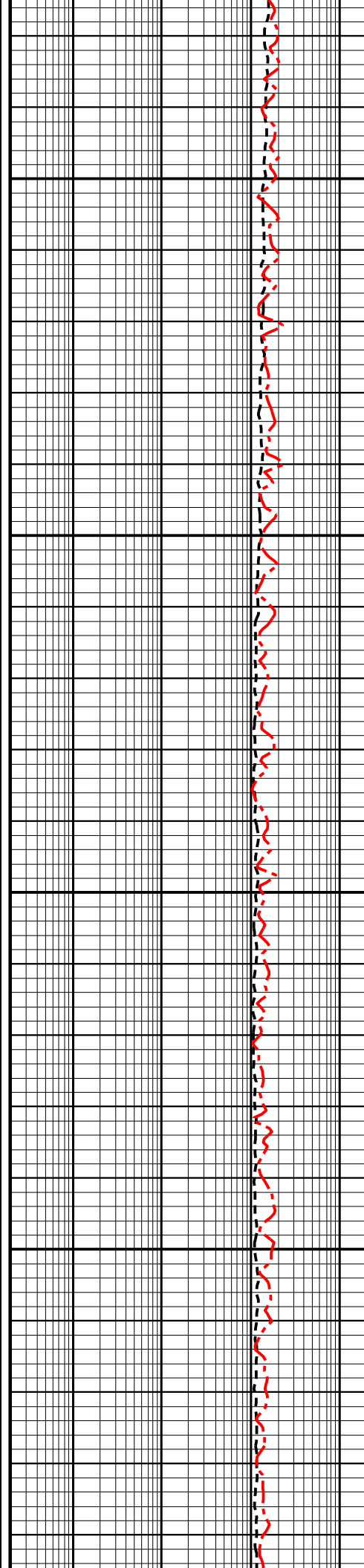


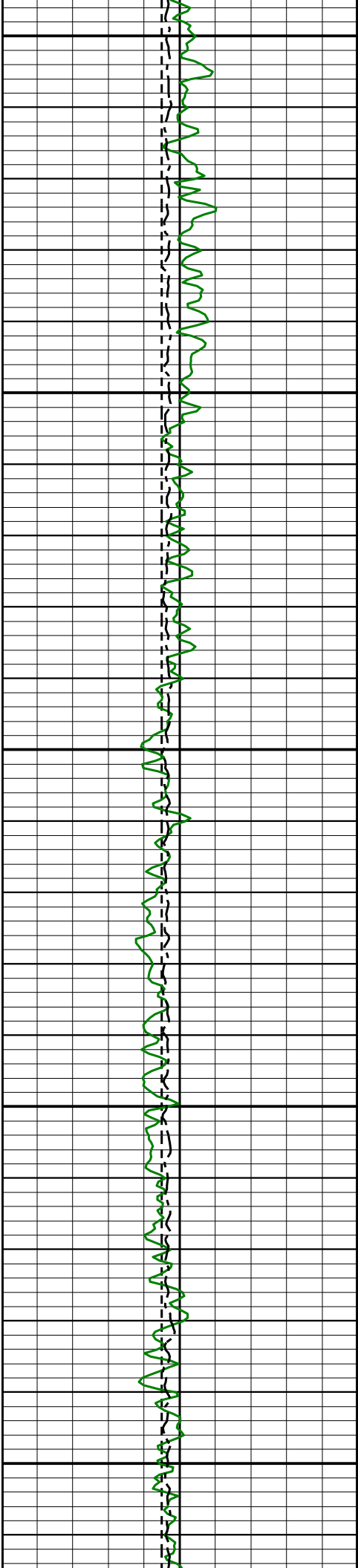
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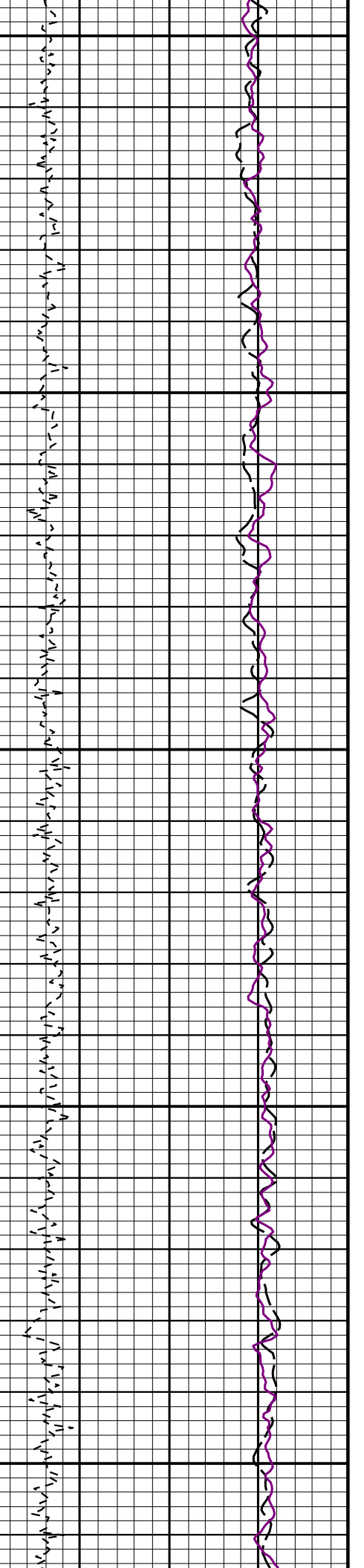
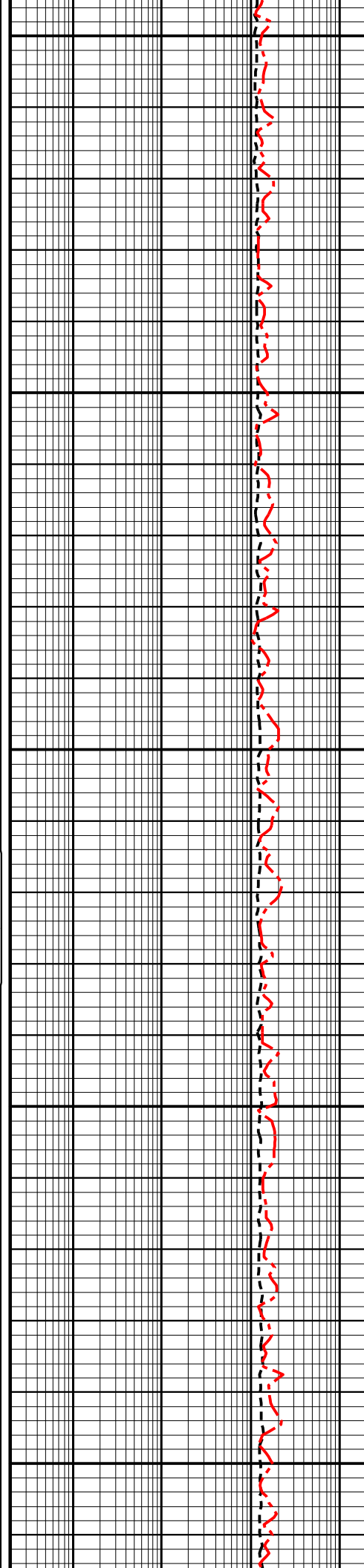
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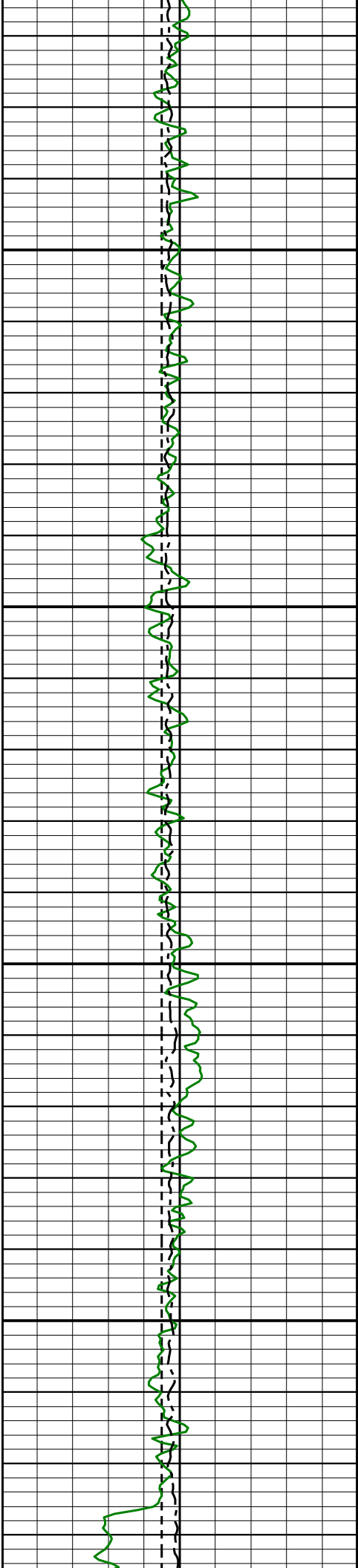
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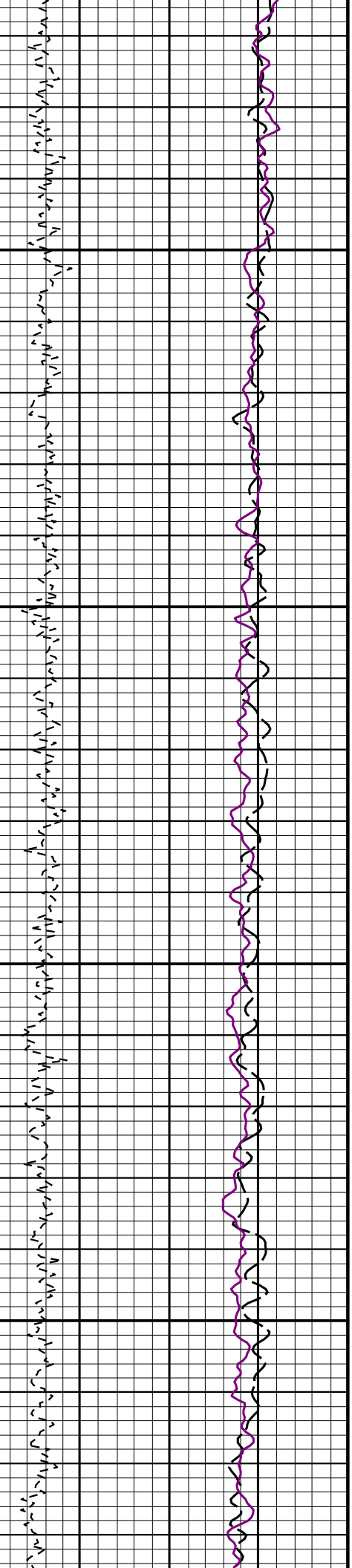
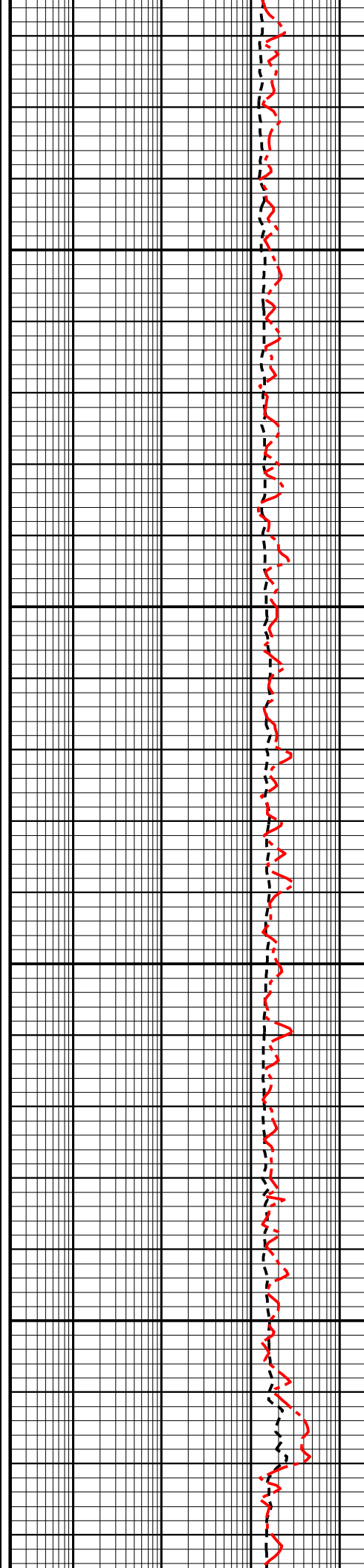


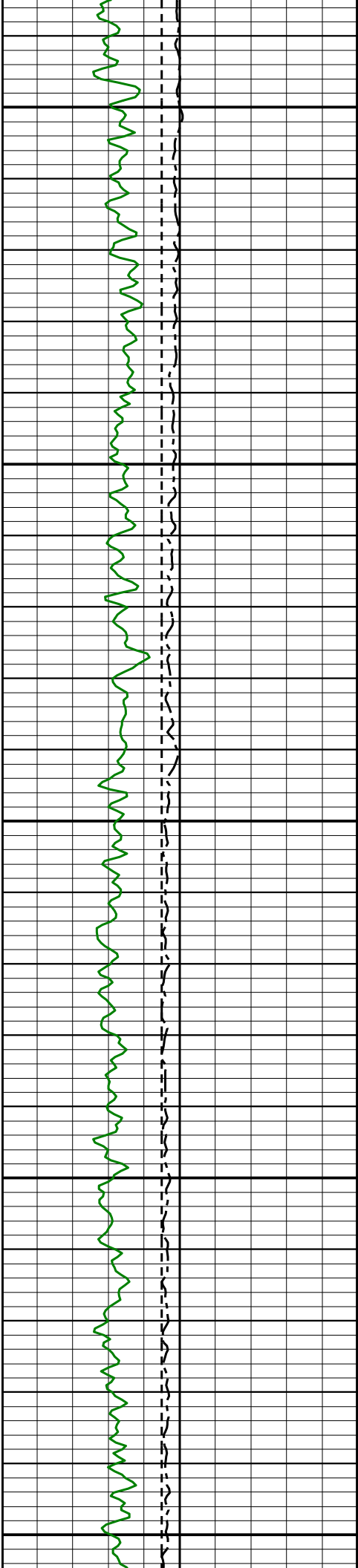
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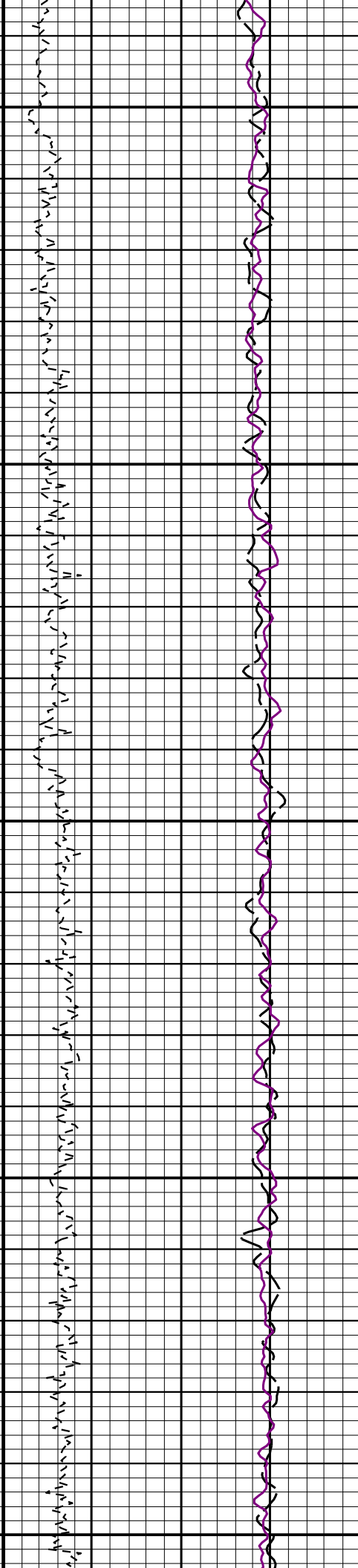
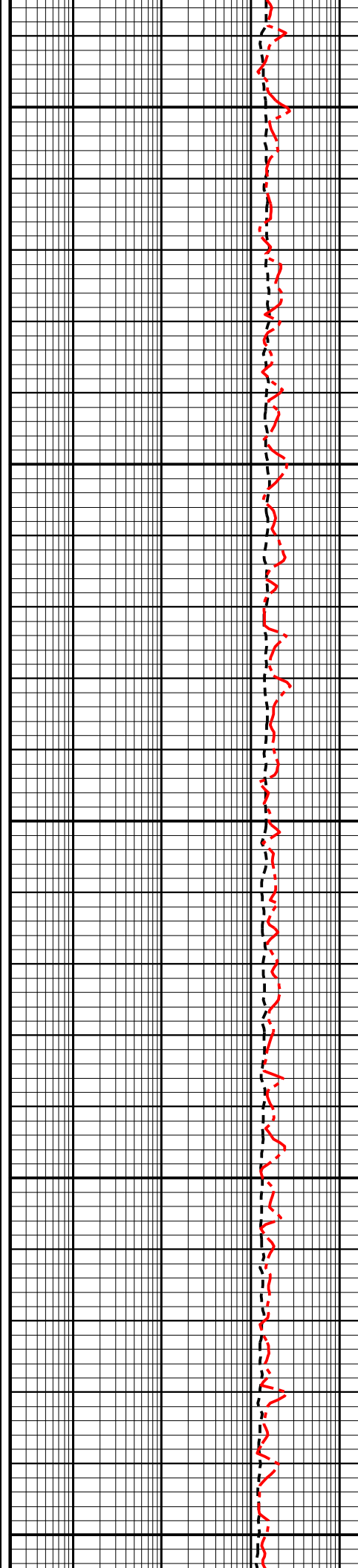
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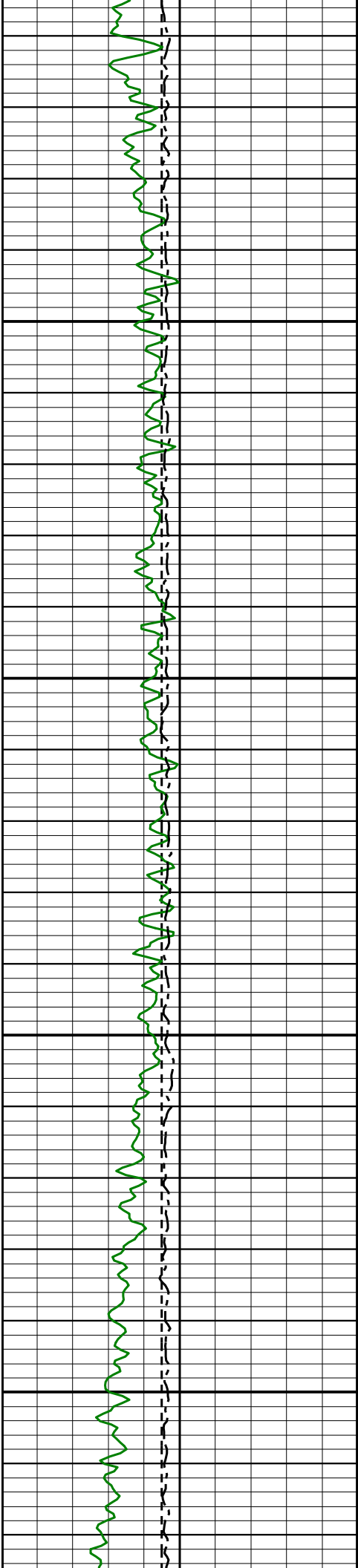
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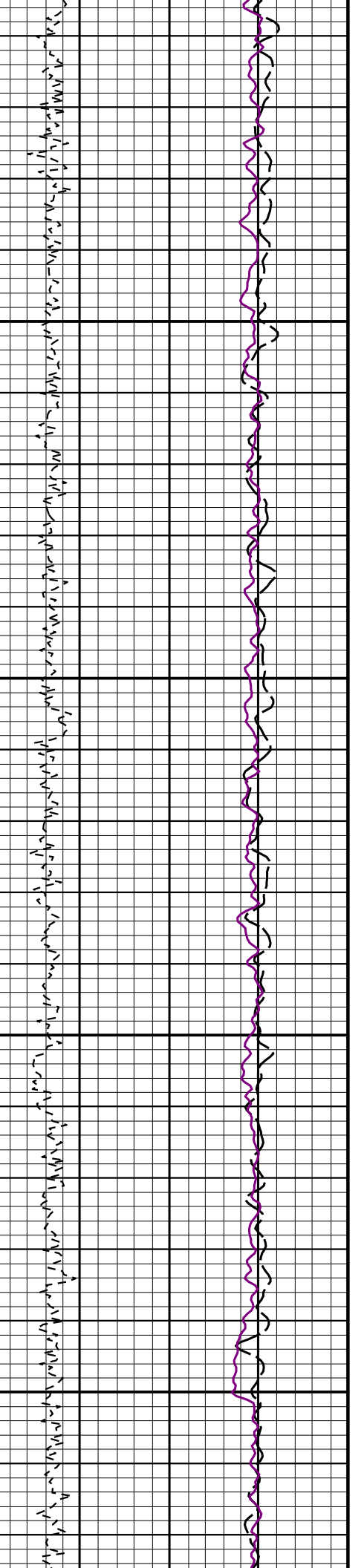
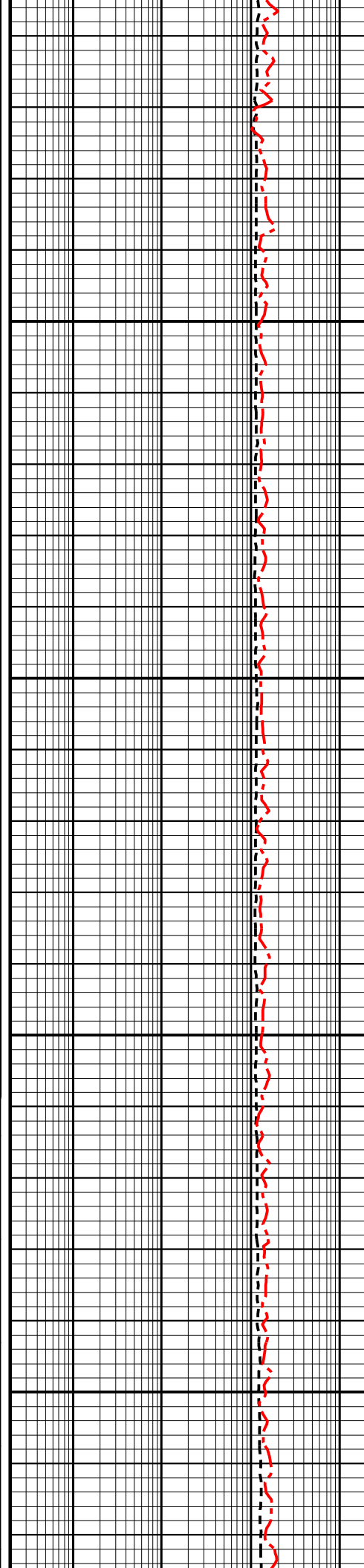


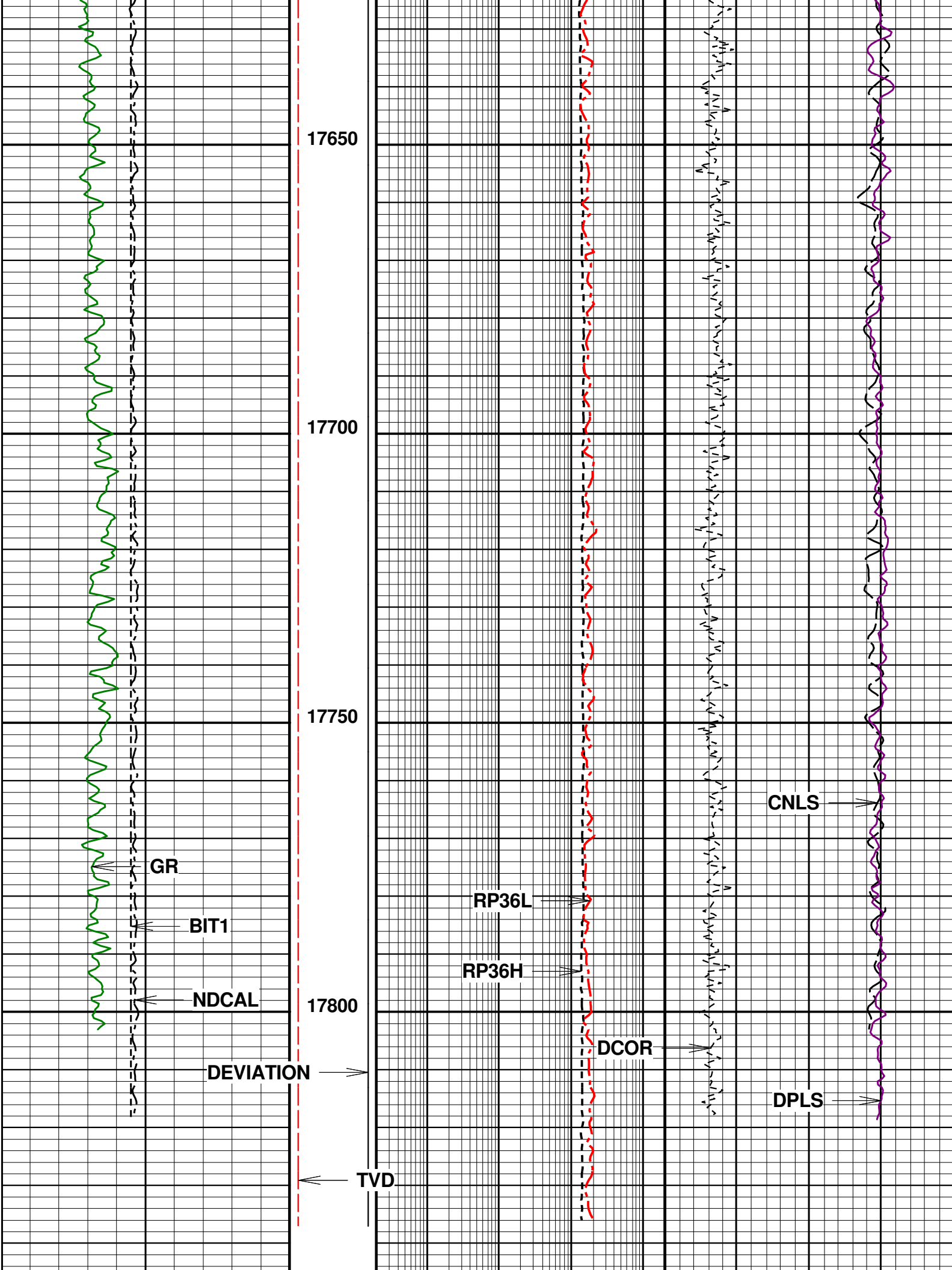
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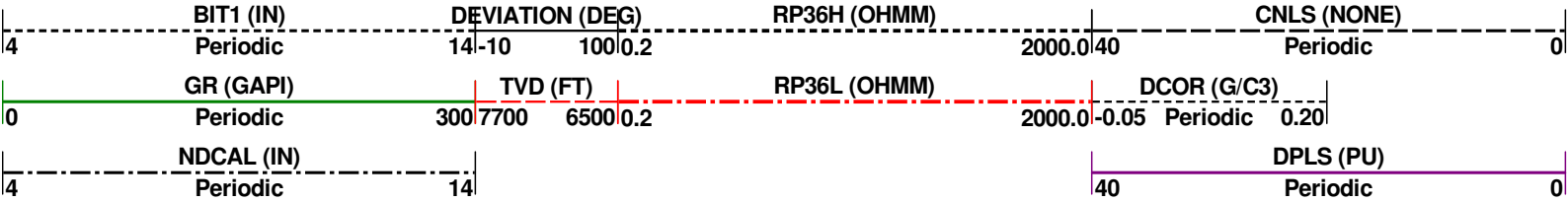
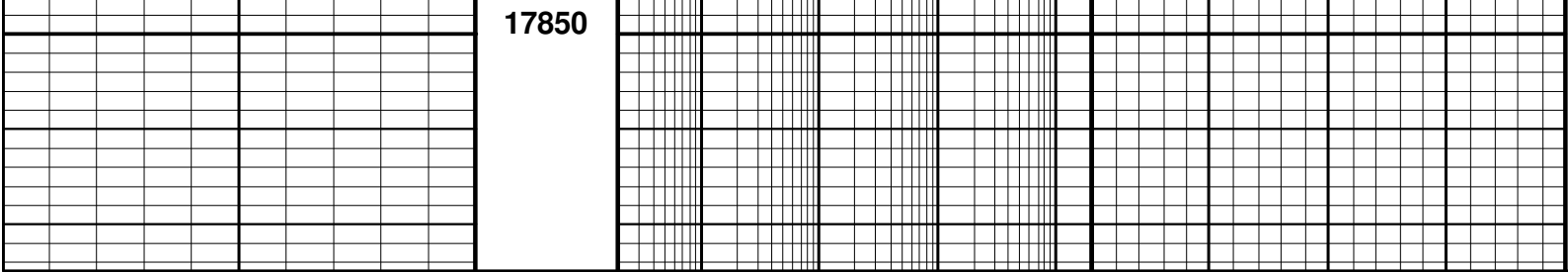
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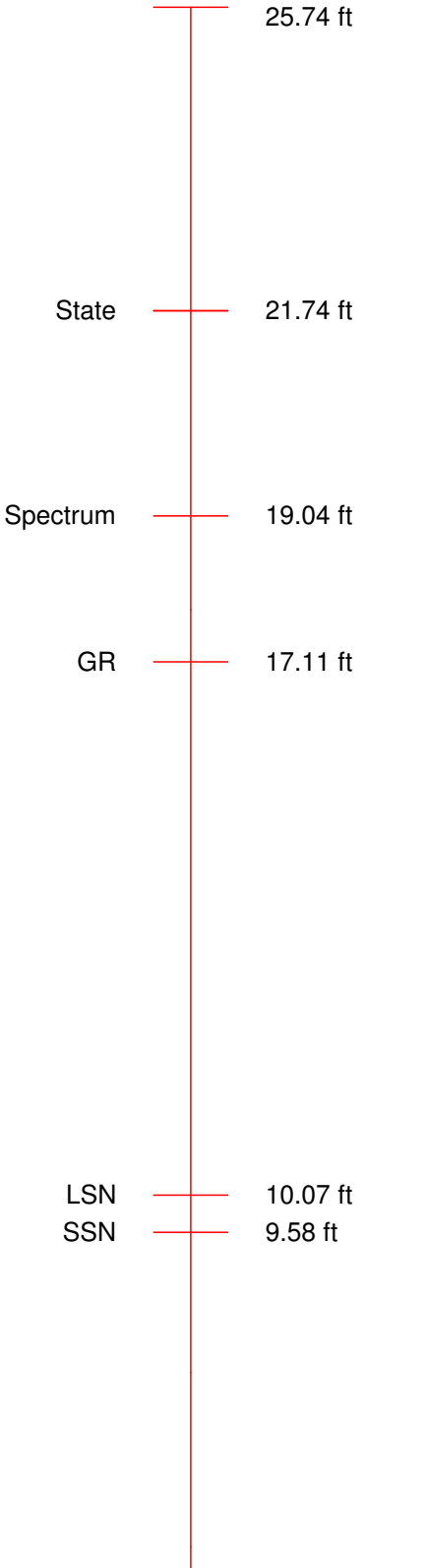


0913 Telemetry3102
Identifier : 0913
Asset Number : 003
Length : 4.003 ft
Diameter : 1.7 inch
Weight : 14.6 lbs
Measure Point : 0.000 ft : State

1460 Spectrum Gamma
Identifier : 1460
Asset Number : 018
Length : 3.950 ft
Diameter : 2.0 inch
Weight : 22.7 lbs
Measure Point : 1.247 ft : Spectrum

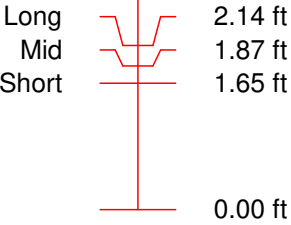
1473 Dual Neutron
Identifier : 1473
Asset Number : 013
Length : 10.069 ft
Diameter : 2.0 inch
Weight : 58.4 lbs
Measure Point : 1.854 ft : SSN
Measure Point : 2.343 ft : LSN
Measure Point : 9.383 ft : GR

0813 Knuckle Joint
Identifier : 0813
Length : 2.297 ft
Diameter : 1.7 inch
Weight : 16.1 lbs



1481 Density

Identifier : 1481
Asset Number : 020
Length : 5.427 ft
Diameter : 2.0 inch
Weight : 38.4 lbs
Measure Point : 1.647 ft : Short
Measure Point : 1.870 ft : Mid
Measure Point : 2.139 ft : Long



Total Length : 25.74 ft
Total Weight : 150.13 lbs
Max Diameter : 2.0 inch

File :

Tool name : **Density**Asset : **020**Series : **1481**Source ID :

Density

Density Calibration

TimeJan / 11 / 2019 18:22:23

Setup

Description1481020_63550B_2019JAN11_JS

Setup Version00046

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
LSDensity	1	0.24828	1.71 g/c3	Concrete Block	31.754180	-6.174
MSDensity	1	0.212014	1.71 g/c3	Concrete Block	72.294490	-13.617
SSDensity	1	0.240355	1.71 g/c3	Concrete Block	117.913300	-26.631
LSDensity	2	0.279457	2.7 g/c3	Aluminum Block		
MSDensity	2	0.225708	2.7 g/c3	Aluminum Block		
SSDensity	2	0.248751	2.7 g/c3	Aluminum Block		

File :

Tool name : **Dual Neutron**Asset : **021**Series : **1473**Source ID :

Gamma

Gamma Calibration

TimeJan / 11 / 2019 15:59:50

Setup

Description1473013_1619-93_2019JAN11_JS

Setup Version00046

Block	Raw Value	User Value	Device	Device SN	Mult.
Background	42.772				
Jig ON	360.952				
Gamma	318.18	250.0002 gAPI	Gamma Ray Jig	1619-93	0.7857194

Gamma Primary Verification

Time Jan / 11 / 2019 16:07:25
Setup
Description 1473013_1619-93_2019JAN11_JS
Setup Version 00046

Block	Device	Device SN	Raw Value	User Value
Background			42.1103	
Jig ON	Gamma Ray JI	1619-93	356.879	
Gamma			247.3201 gAPI	
			244.5	255.5

Tool name : Dual Neutron Asset : 021 Series : 1473 Source ID :

Ratio

Compensated Neutron Calibration

Time Jan / 11 / 2019 16:21:32
Setup
Description 1473013_34181B_2019JAN11_JS
Setup Version 00046

Curve Name	pt	Raw Value	User Value	Device	Mult.
Ratio	1	16.9899	17 none	Neutron Ratio	1.000594
		16.15	17.85		

Compensated Neutron Primary Verification

Time Jan / 11 / 2019 16:24:48
Setup
Description 1473013_34181B_2019JAN11_JS
Setup Version 00046

Curve Name	pt	Device	Device Value	User Value
CN	1	Neutron Porosity	23 pu	23.4469 pu
				21.16 24.84

CORDAX™

COMPANY: GREAT WESTERN OPERATING COMPANY LLC
WELL: SCHAEFER LD 13-033HN
FIELD: WATTENBERG
COUNTY: ADAMS
STATE: COLORADO