




CompanyPDC ENERGY INC.									
Well		HUNT FEDERAL 28X-314				State		CO	
Field		WATTENBERG				County		WELD	
Location:		SHL: 226' FSL & 252' FEL SESE				API # : 05123419450000		Other Services	
Permanent Datum		GL		Elevation		4761'		NONE	
Log Measured From		GL						K.B. N/A D.F. N/A G.L. 4761'	
Drilling Measured From		KB							
Date of Service		31 JANUARY 2016							
Run Number		1							
Depth Driller or PBTD		14992'							
Depth Logger		6670'							
Bottom Log Interval		6670'							
Top Log Interval		SURFACE							
Open Hole Size		8+3/4"							
Type Fluid		FSW							
Fluid Level		1688'							
Fluid Density		N/A							
Max. Recorded Temperature		N/A							
Max. Wellhead Pressure		N/A							
Wellhead Connection		N/A							
Estimated Cement Top		SEE LOG							
Unit Number		P-129							
Wireline Size		9/32"							
Location		FT. MORGAN							
Recorded By		SHAUN STUMP							
Witnessed By		MR. SMITH							
Size		Wt/Ft		Top		Bottom			
Tubing Record									
Surface Casing		9+5/8"		36#		SURFACE			
Production Casing		7"		26#		SURFACE		7764'	
Liner Record		4+1/2"		13.5#		6561'		14992'	

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.		
<div>Comments</div> <div> N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE. </div> <div> 0 PSI ON WELL WHILE LOGGING </div> <div> S.O. 290153 </div> <div> THANK YOU FOR USING PIONEER ENERGY SERVICES </div>		
Your Pioneer Energy Services Crew		<div>Tool Data - Services</div> <div>GR/CCL</div> <div>CNT</div>
Engineer: S.STUMP Operator: C. BURNS Operator: M. GARCIA Operator:		<div>Serial Number</div> <div>1404-109</div> <div>120508</div>

Top - Bottom

NPORSHIFT	CMTTKCOR	CSTKCOR	SZCOR	CASED?	NPORSEL	CMNTTHCK in
0	On	On	On	Yes	Sandstone	0
SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	0	7	0	0	212	8.75

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL\$2 CCL\$1	9.19		Cable Head-Titan 143 1 7/16" Titan Cable Head	1.03	1.43	2.00
	9.19					
GR	7.85		GR-GC_6PIN (FW1404-109) Probe 6 Pin GR275-0001 rev.1	4.82	2.75	
			CNT-275BL (120508) Probe 275 Digital CNT	5.00	2.75	76.00

CNLSC

2.05

CNSSC

1.64


Bullnose-Titan
GO Pin Pressure Cap

0.27

1.38

1.00

Dataset: 290153_pdc_hunt_federal_gr_neu.db: field/well/run1/pass3
Total length: 11.12 ft
Total weight: 79.00 lb
O.D.: 2.75 in



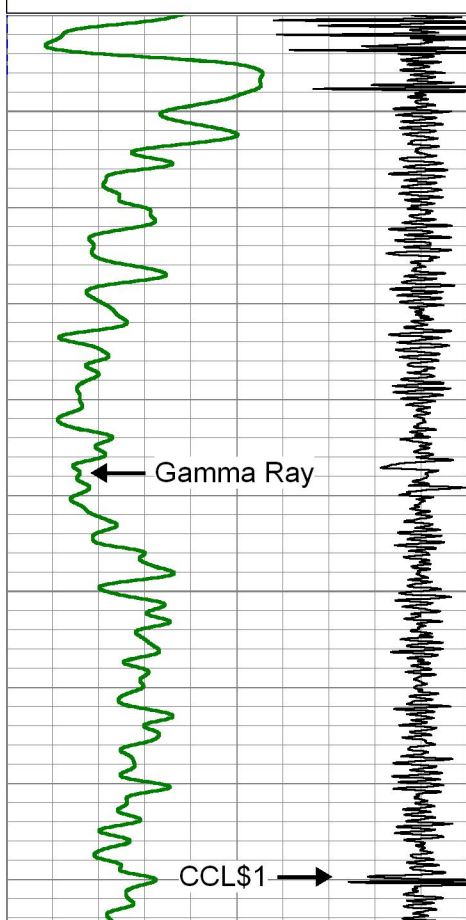
MAIN PASS

0 PSI ON WELL WHILE LOGGING

Database File 290153_pdc_hunt_federal_gr_neu.db
Dataset Pathname pass3
Presentation Format pinr_cnl-ft morgan
Dataset Creation Sun Jan 31 12:22:56 2016
Charted by Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 200
0 Tension (lb) 3000
-9 CCL\$1 1

40 Compensated Neutron Porosity (pu) 0

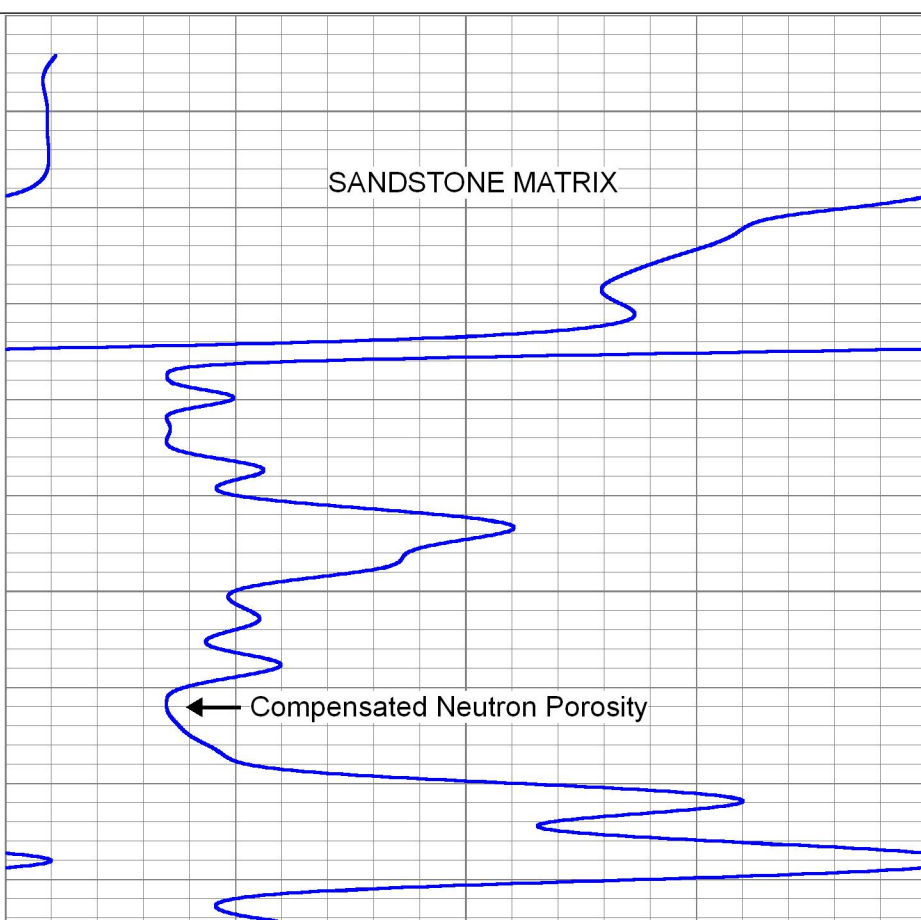


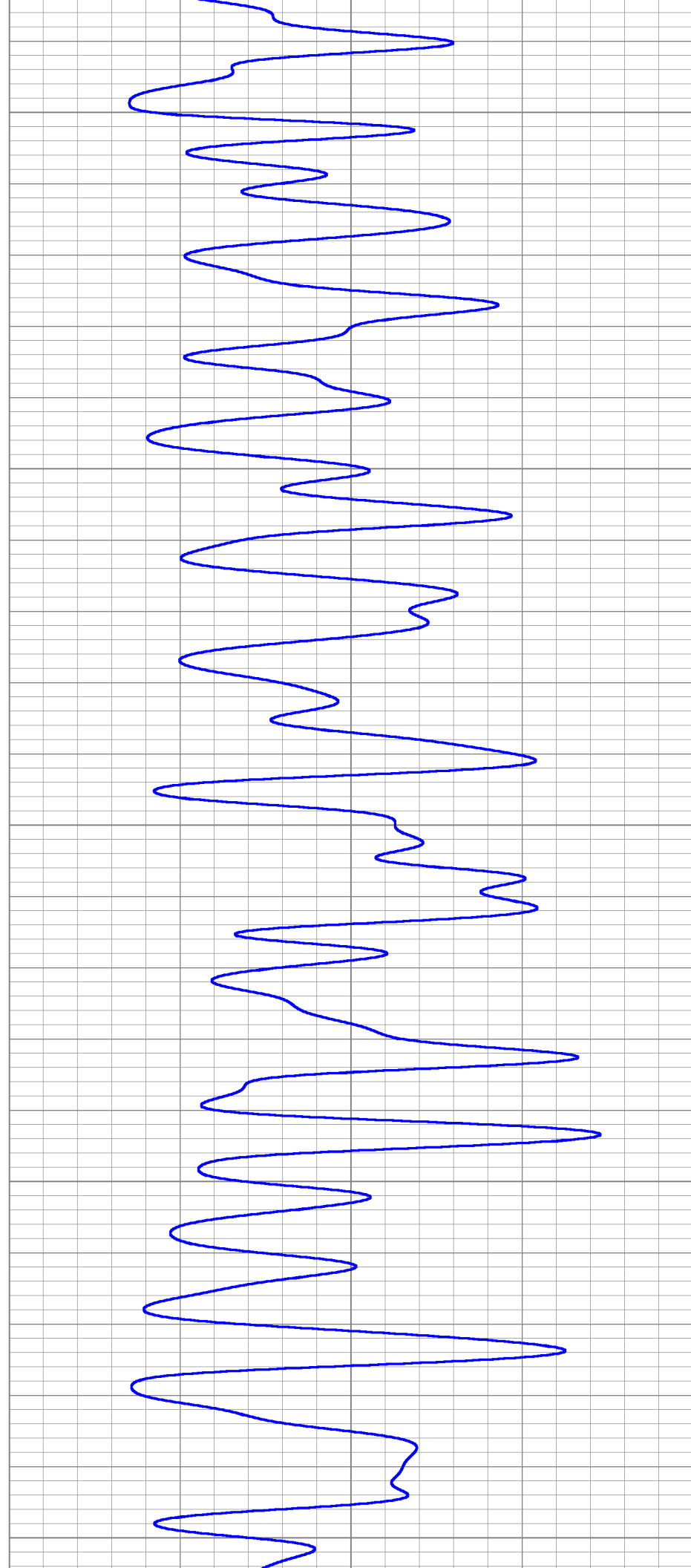
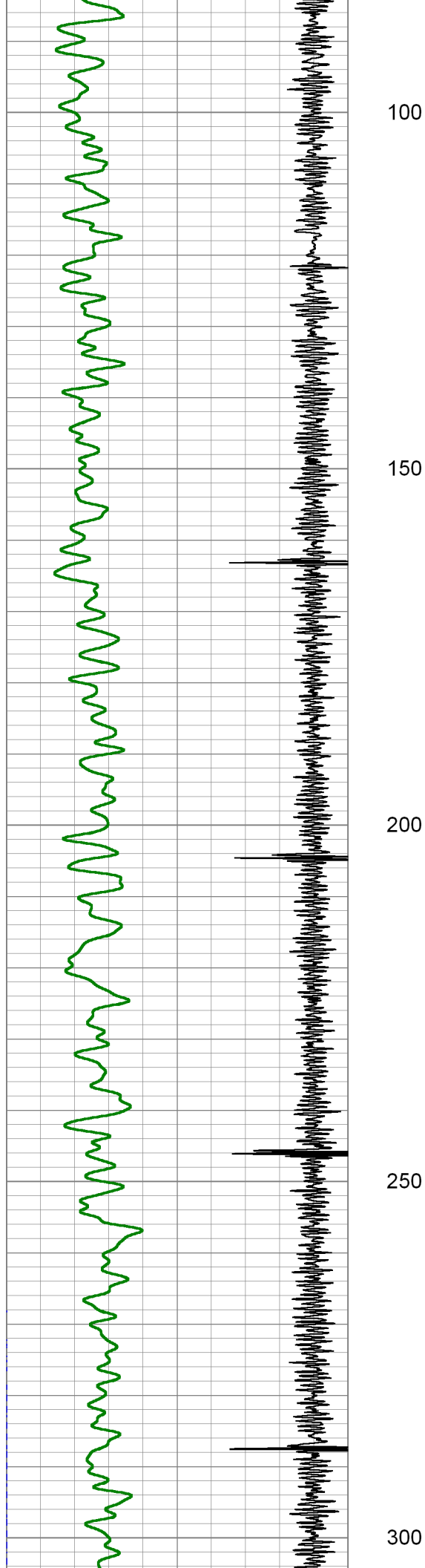
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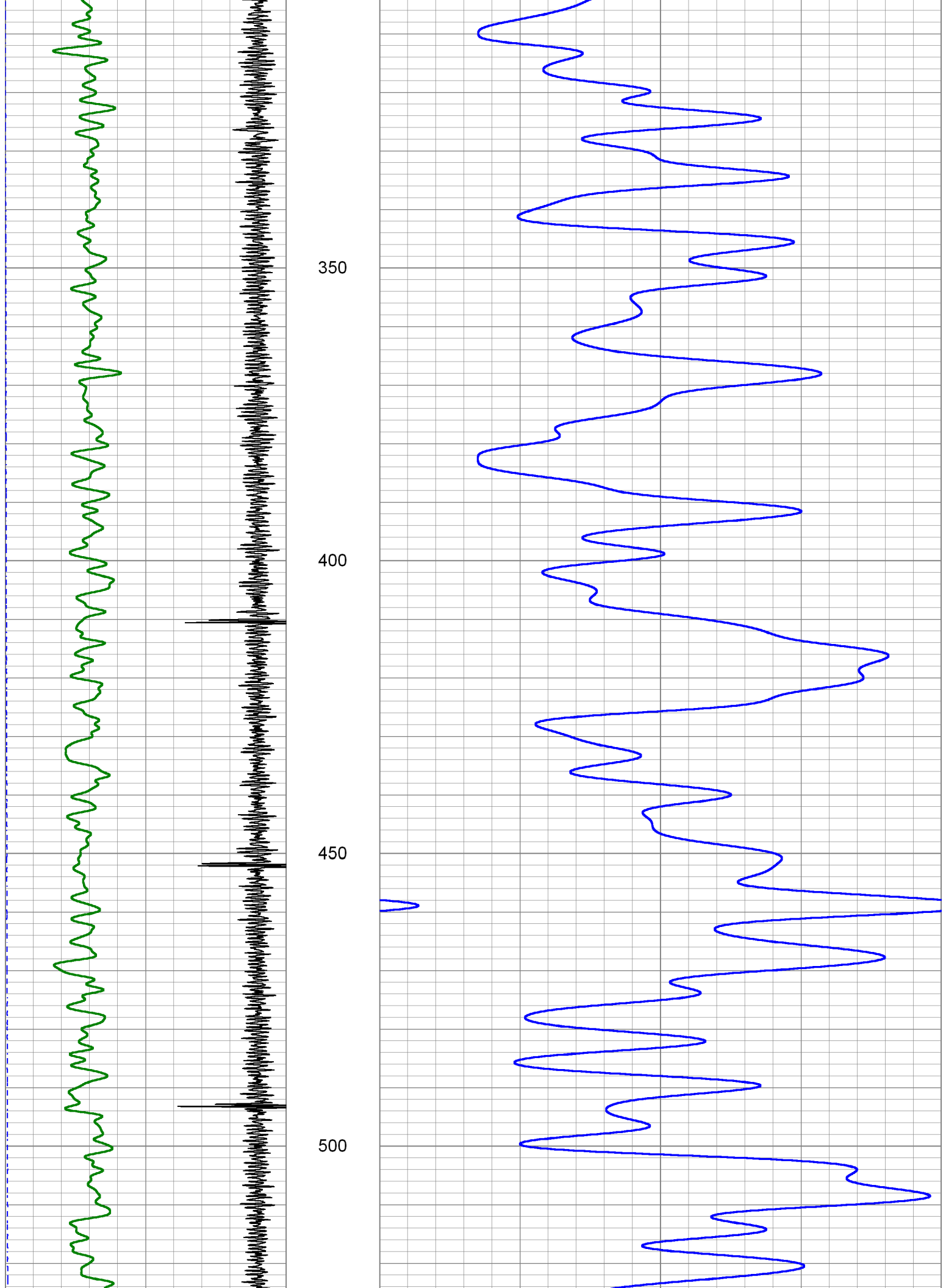
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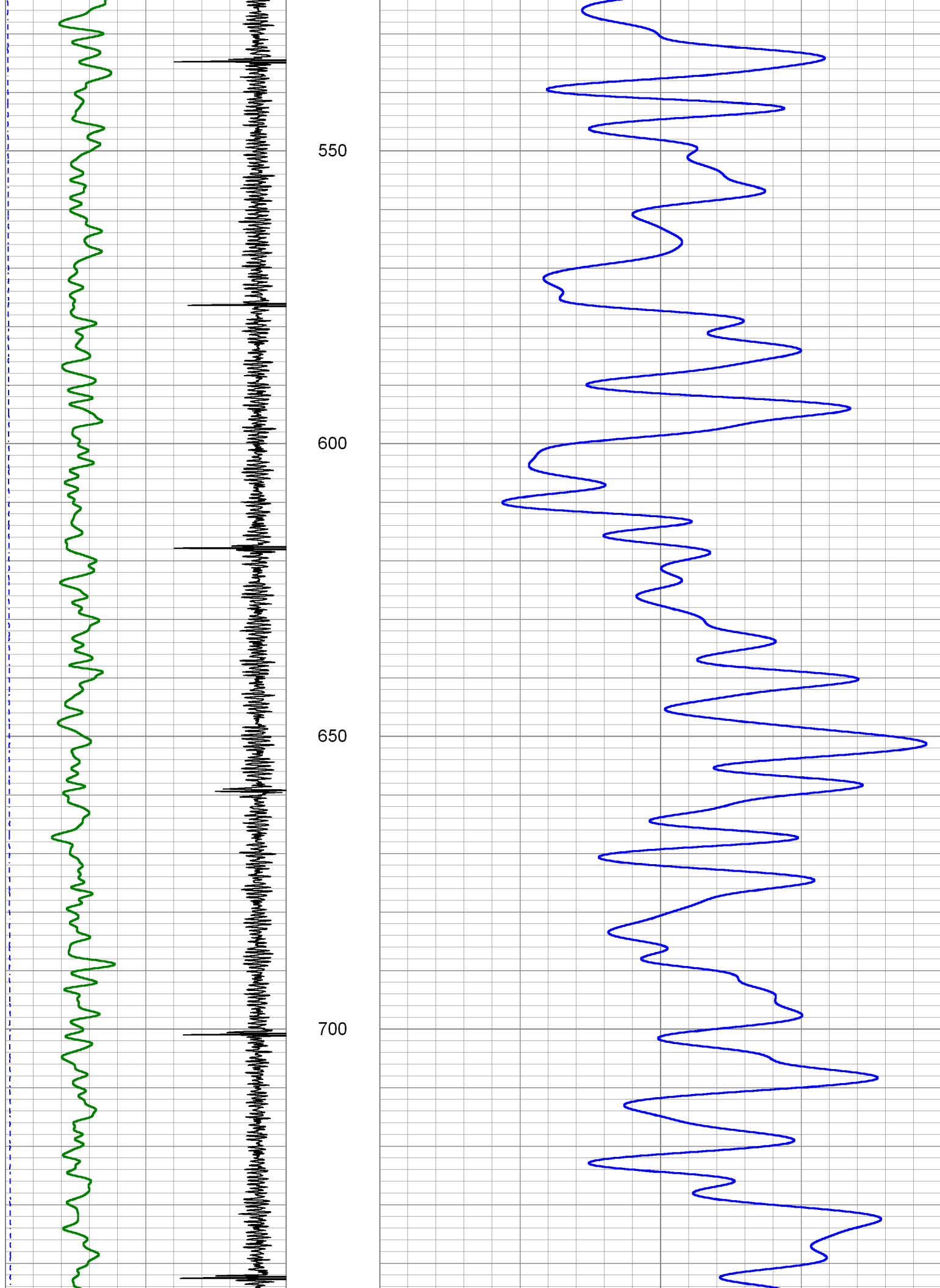
SANDSTONE MATRIX

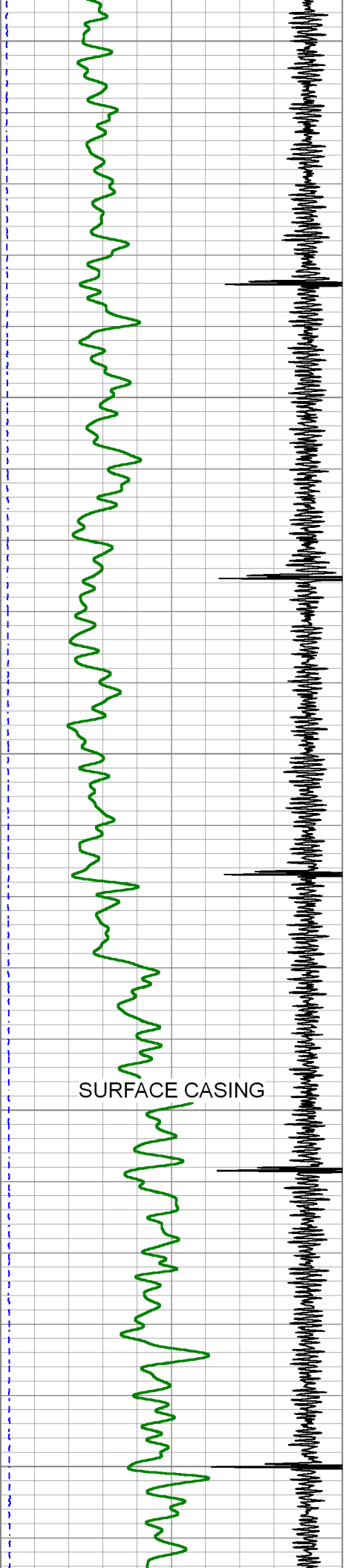
Compensated Neutron Porosity











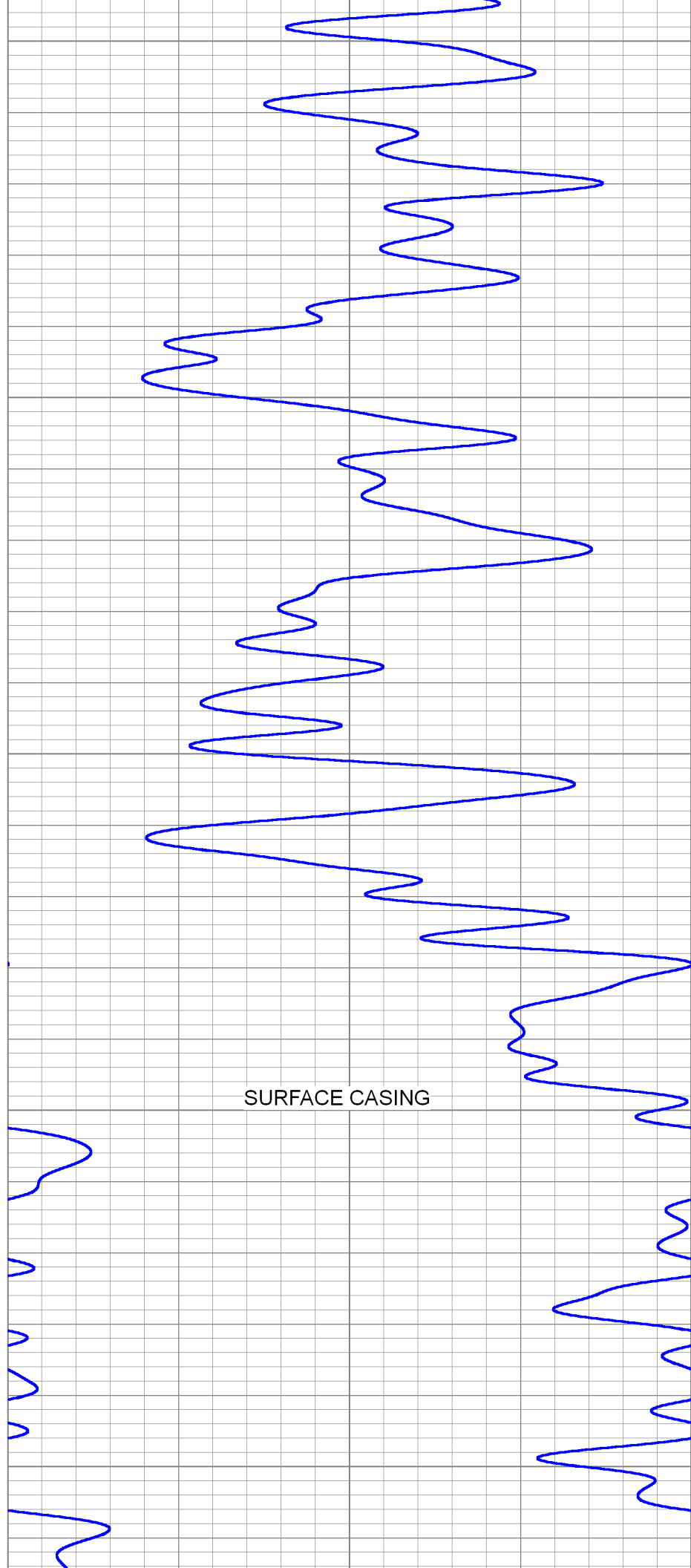
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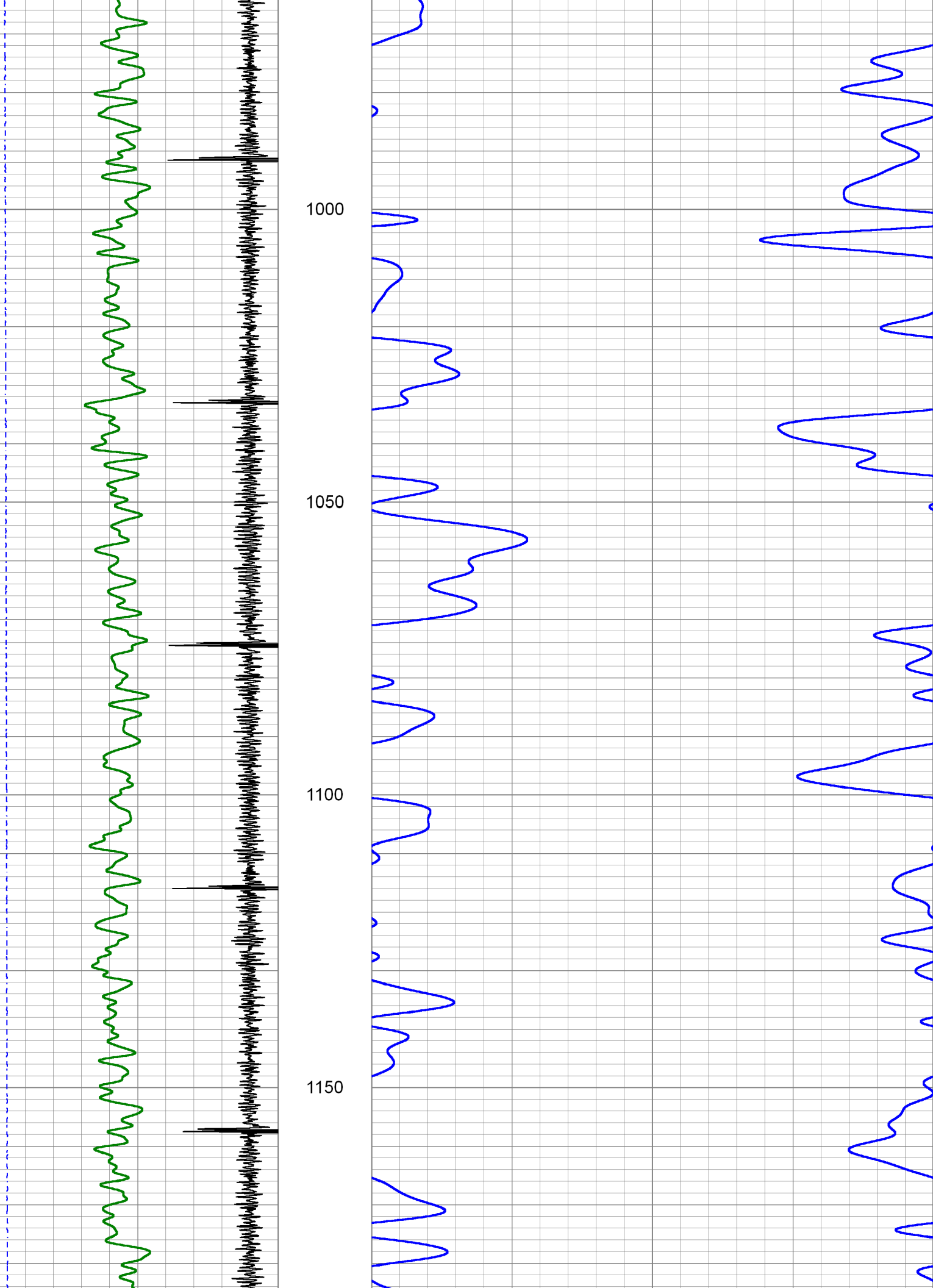
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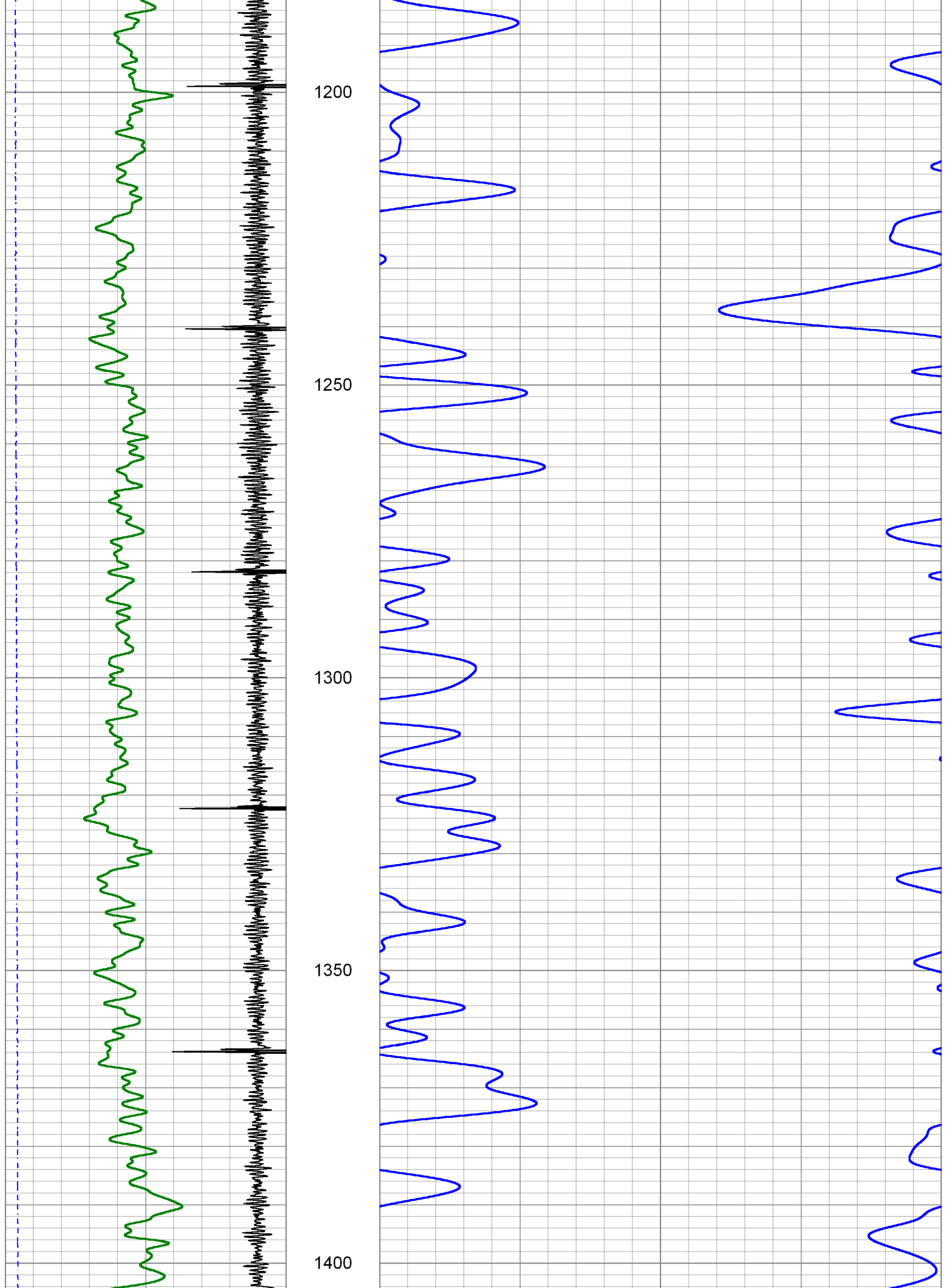
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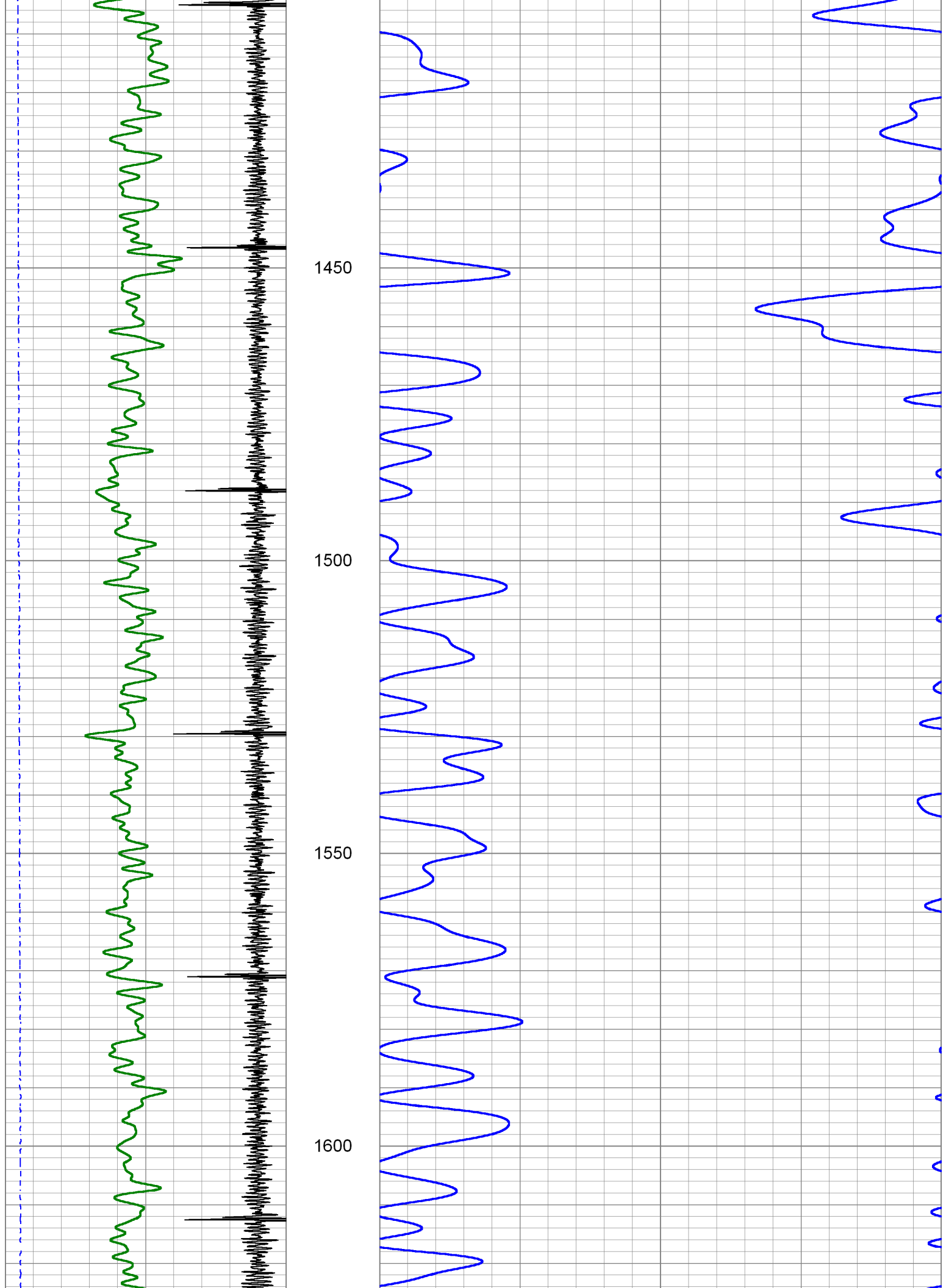
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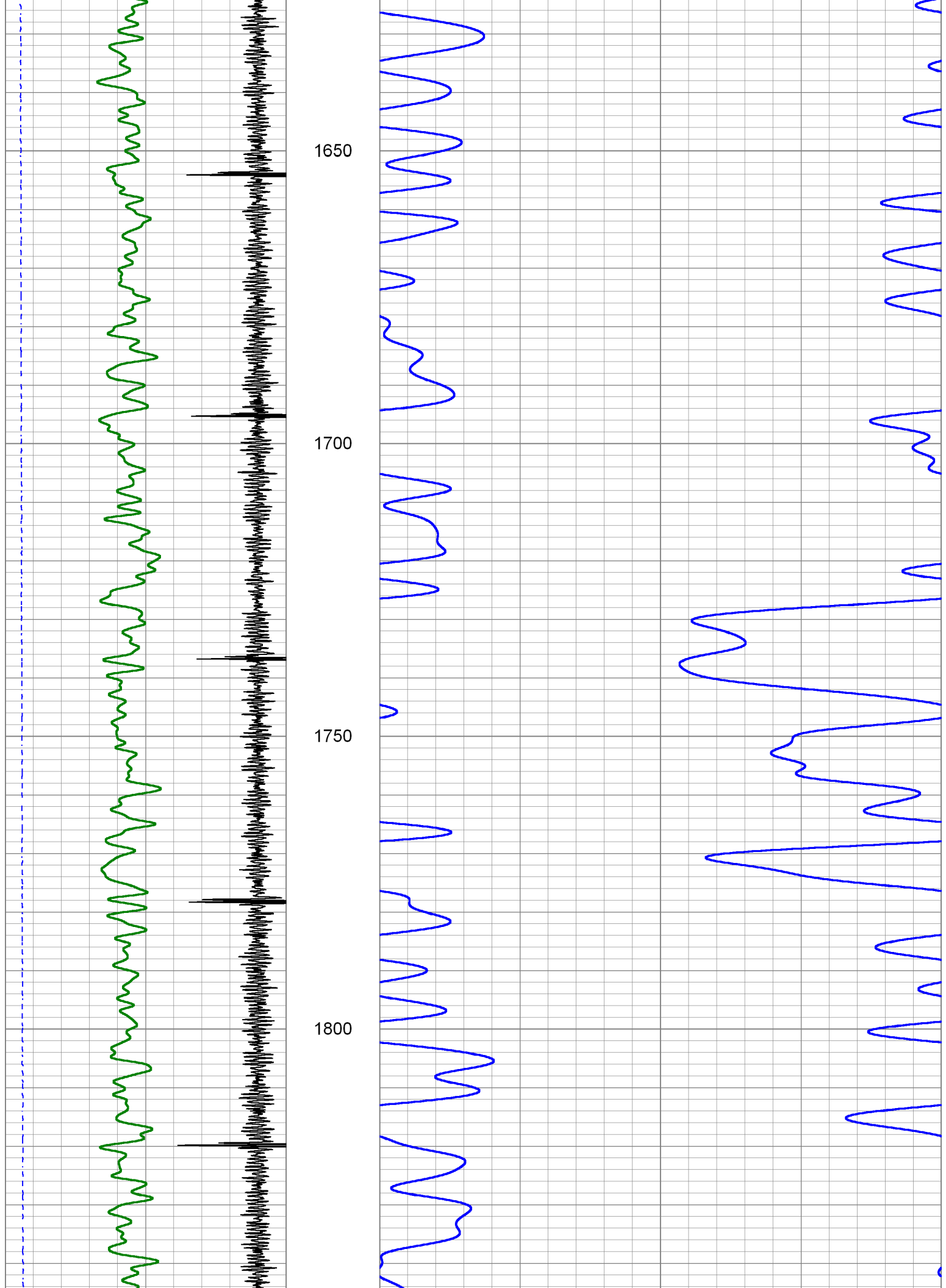
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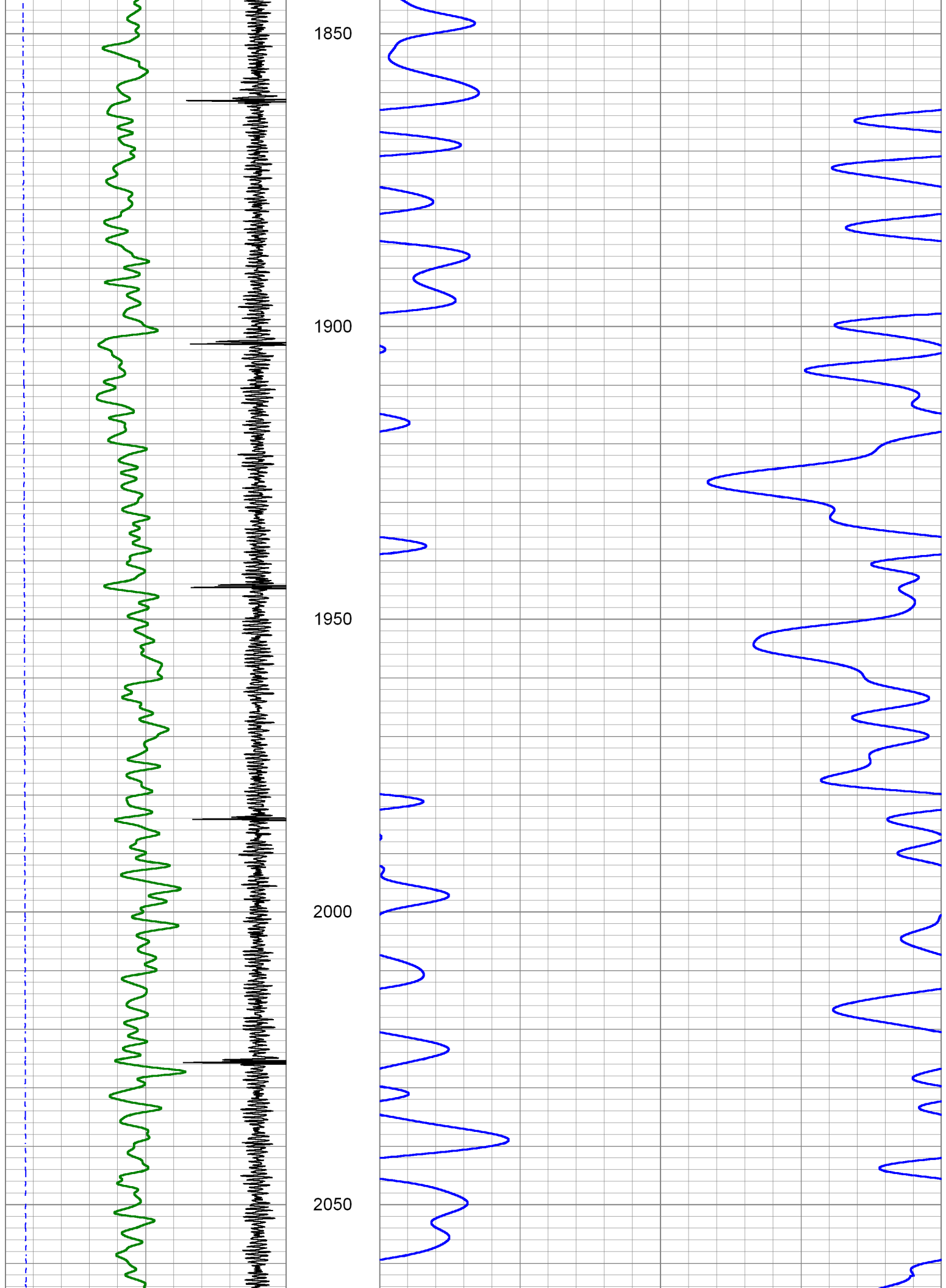


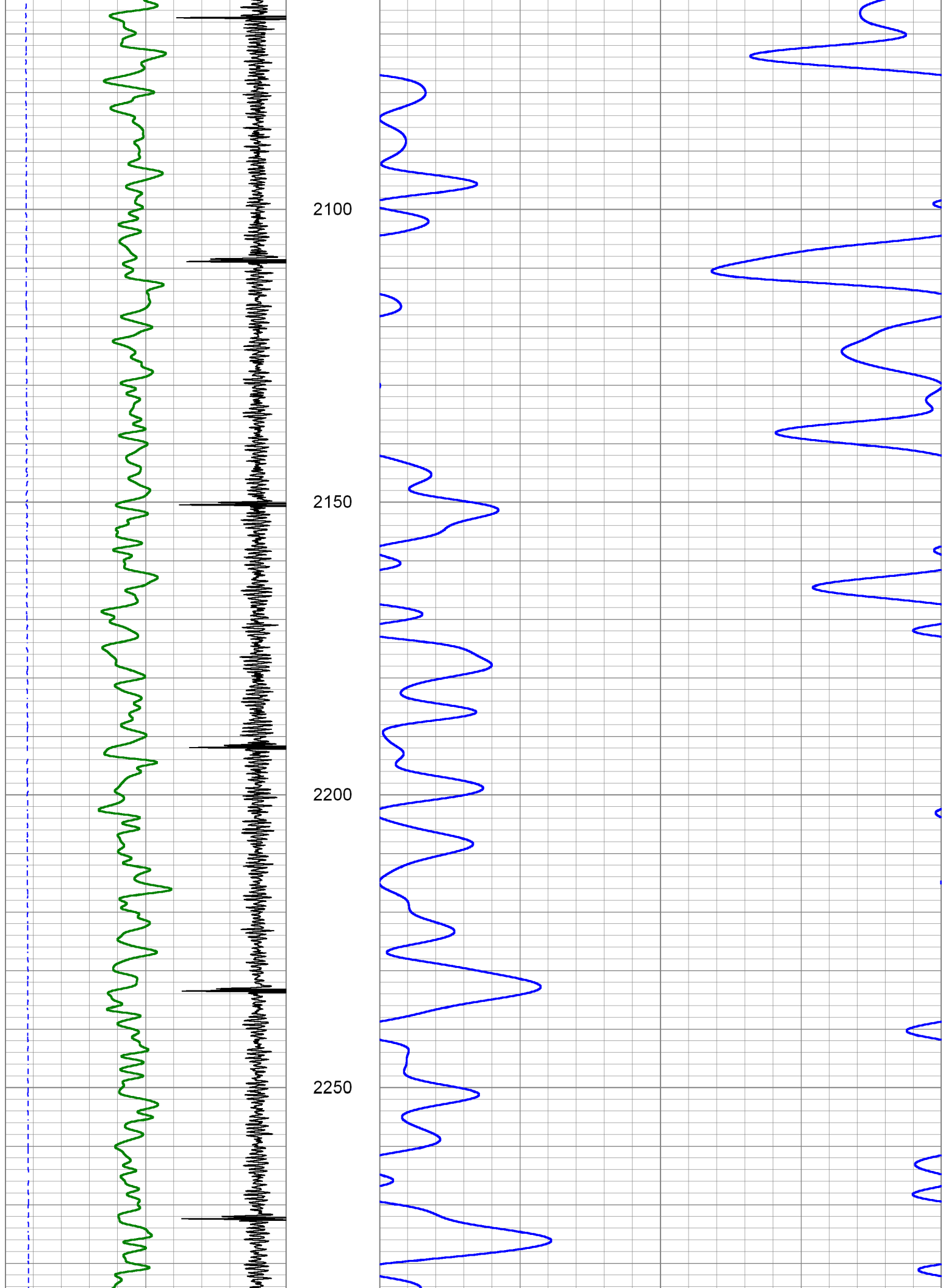


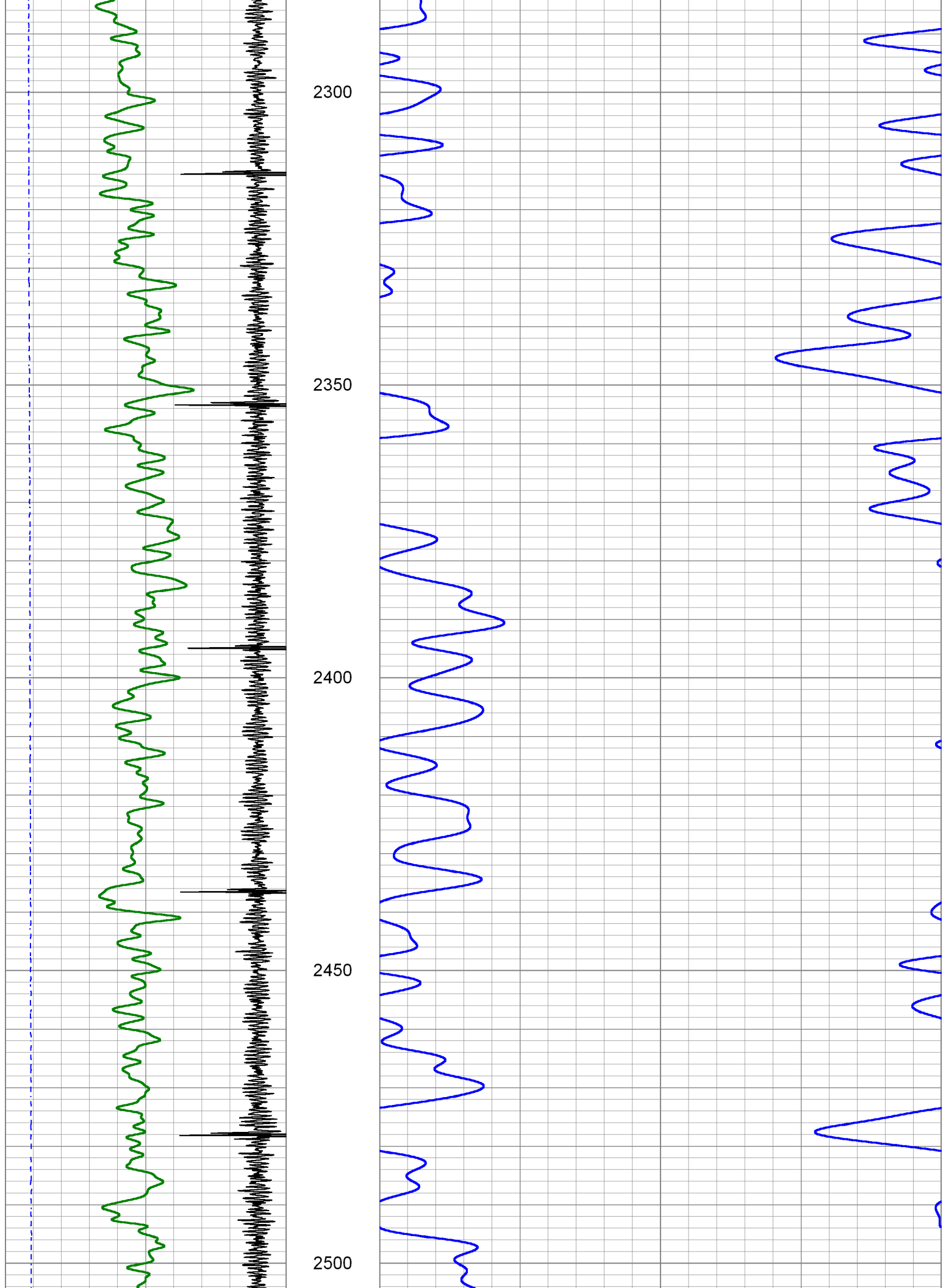


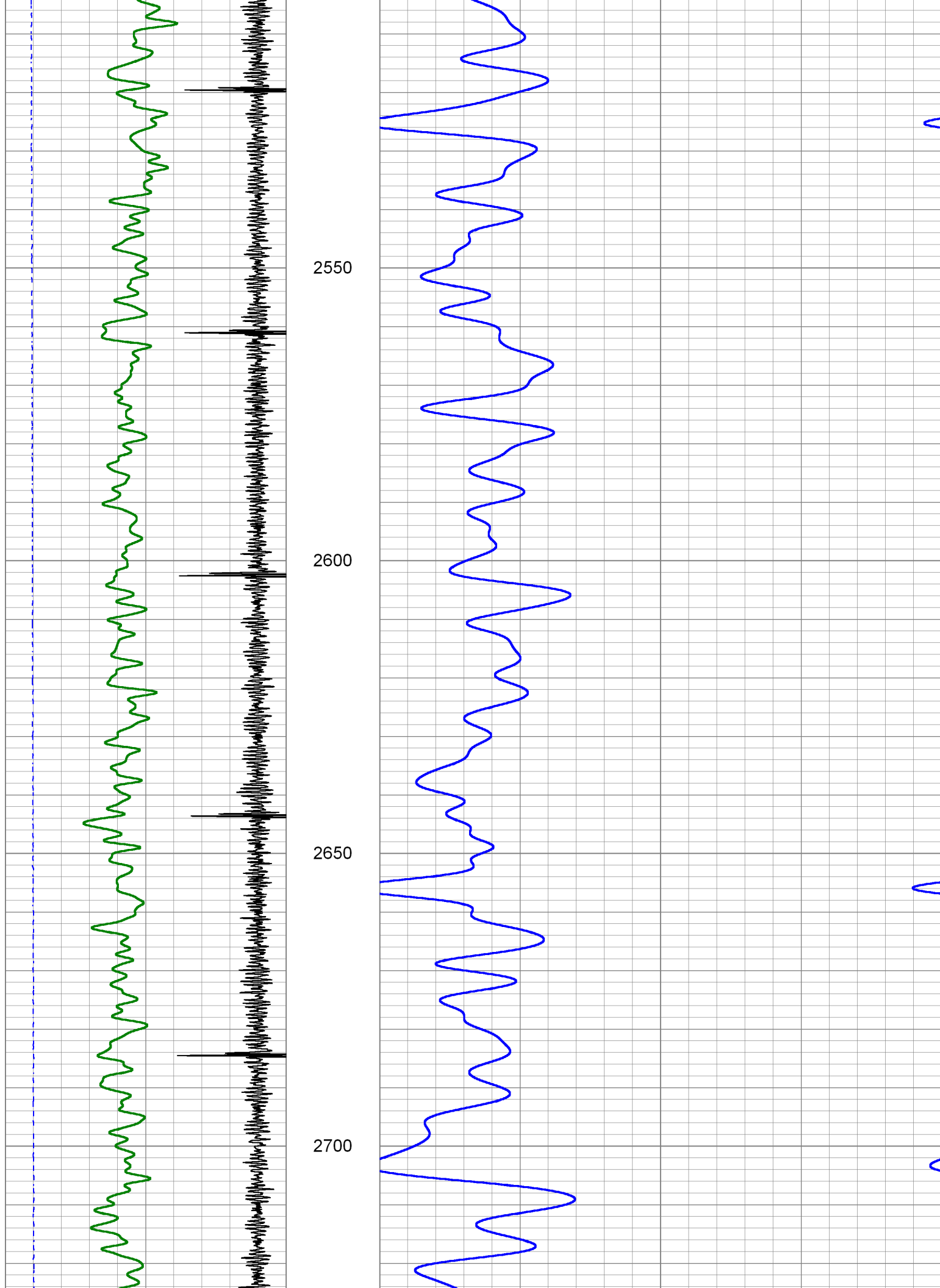


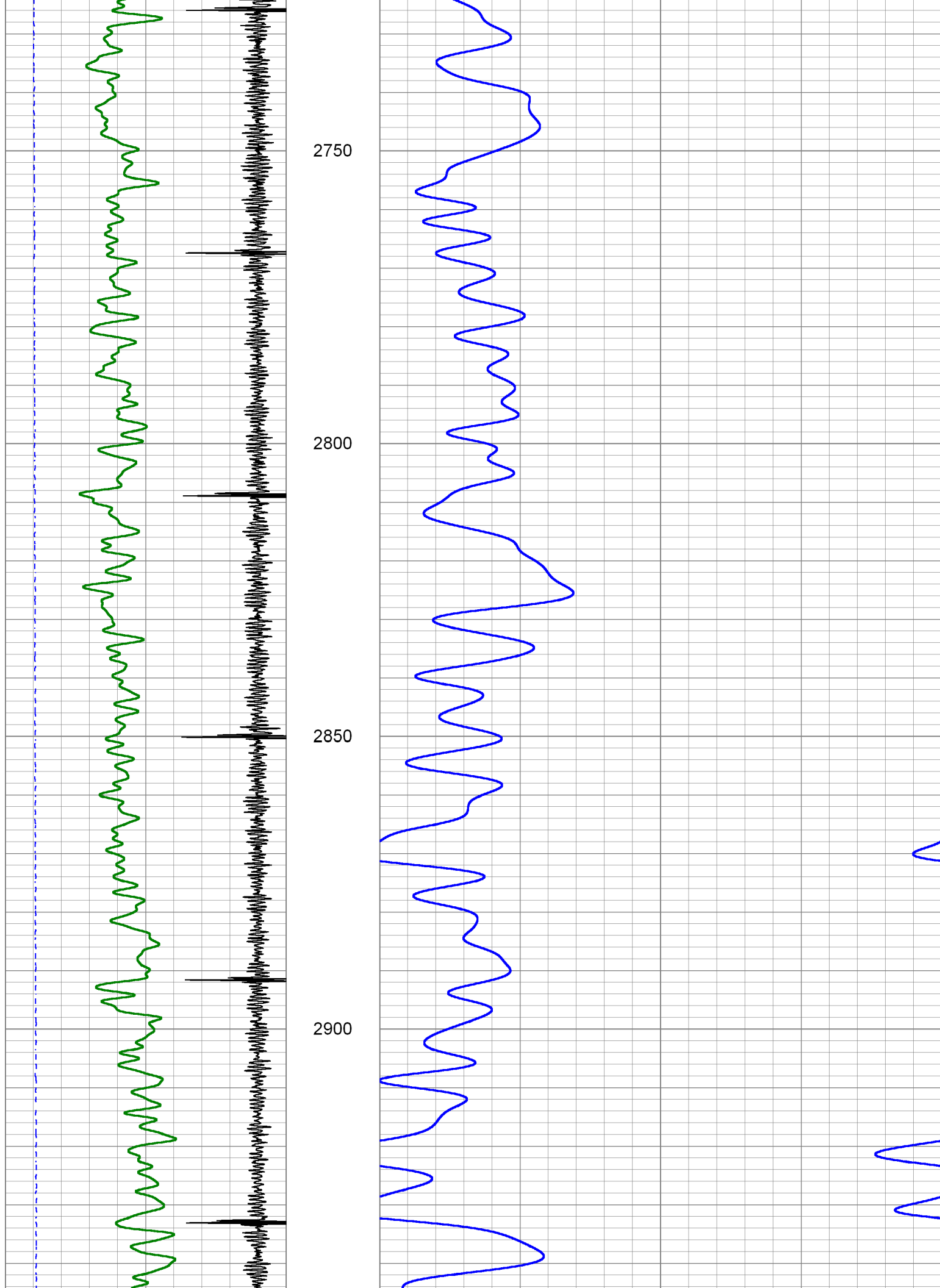


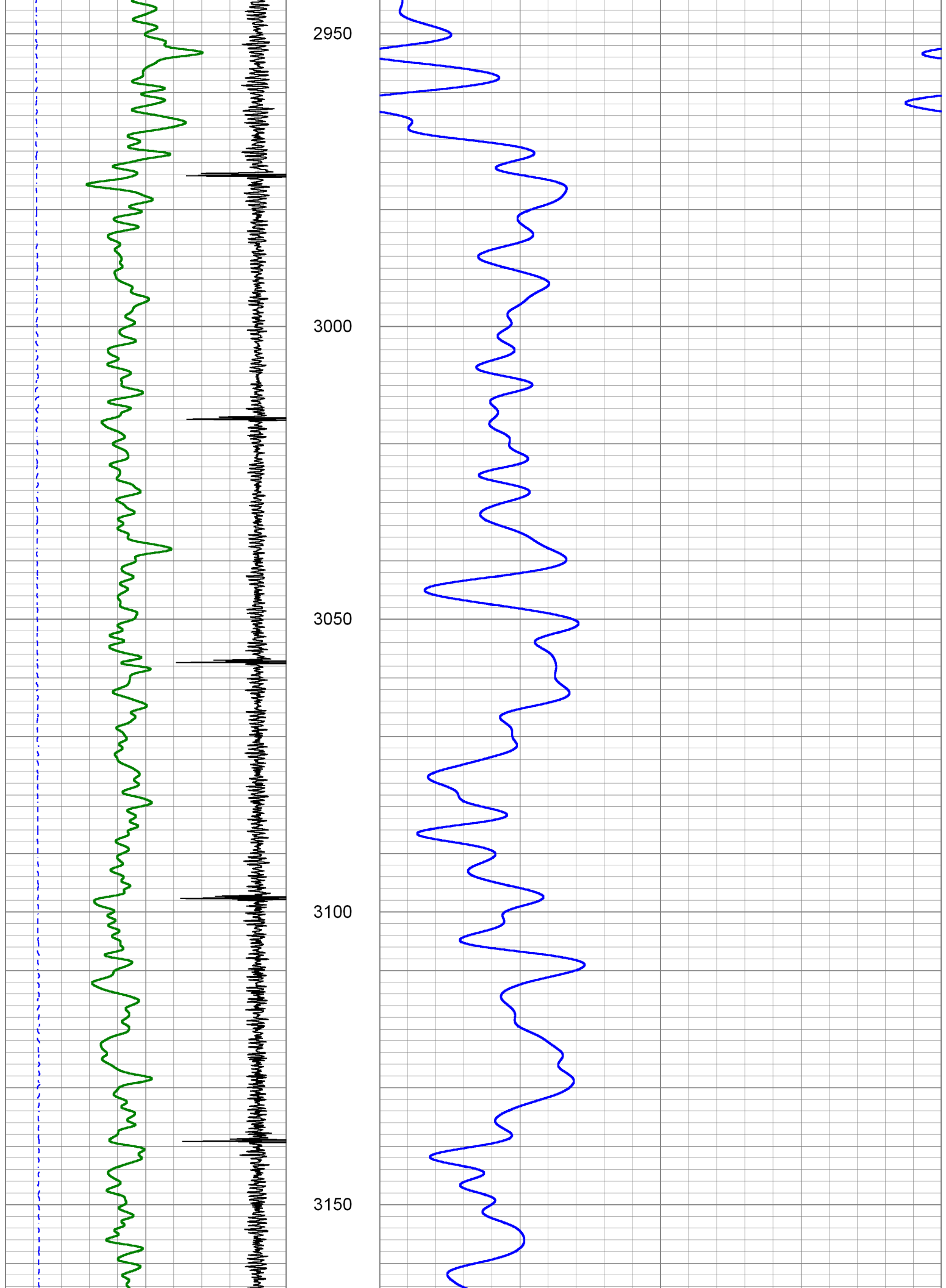


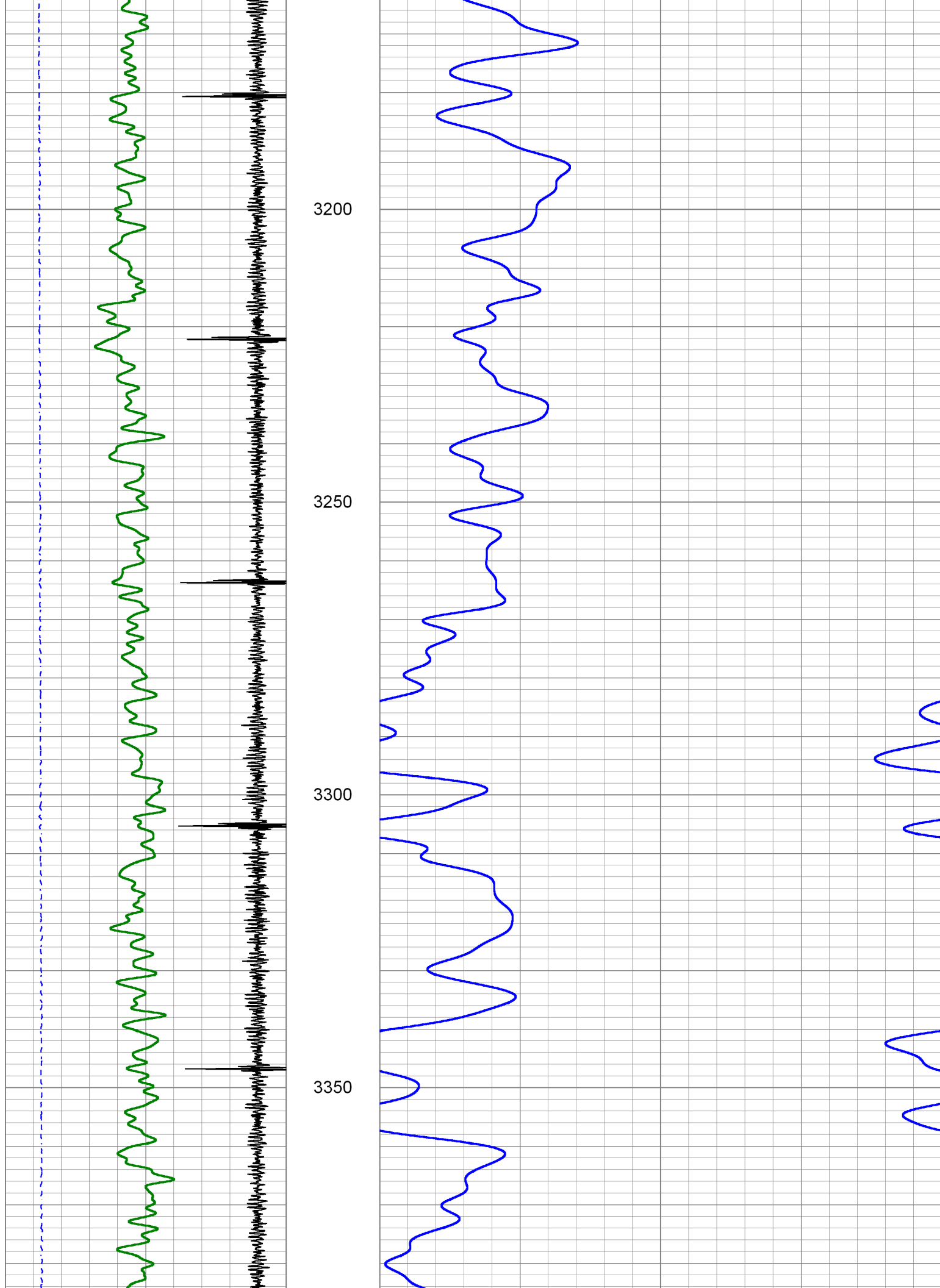


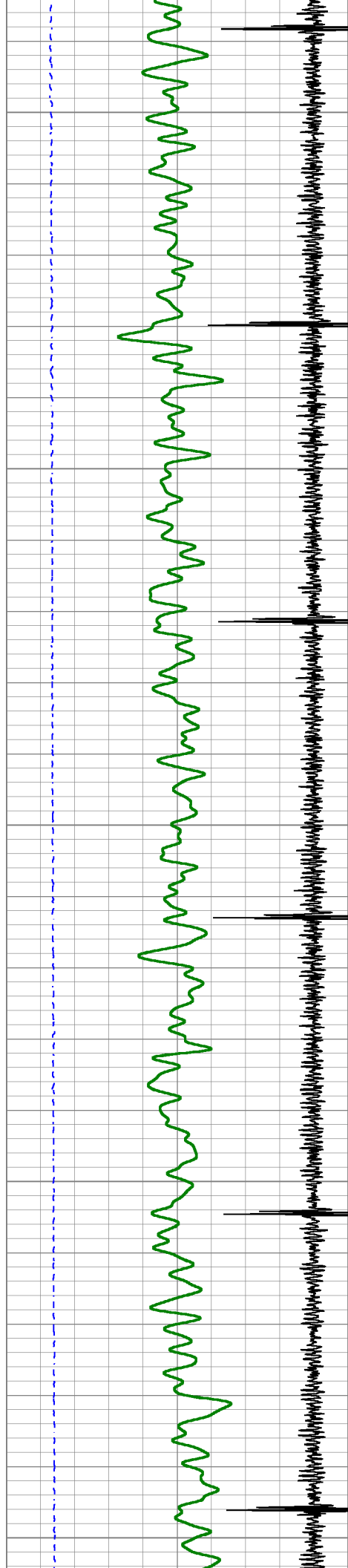












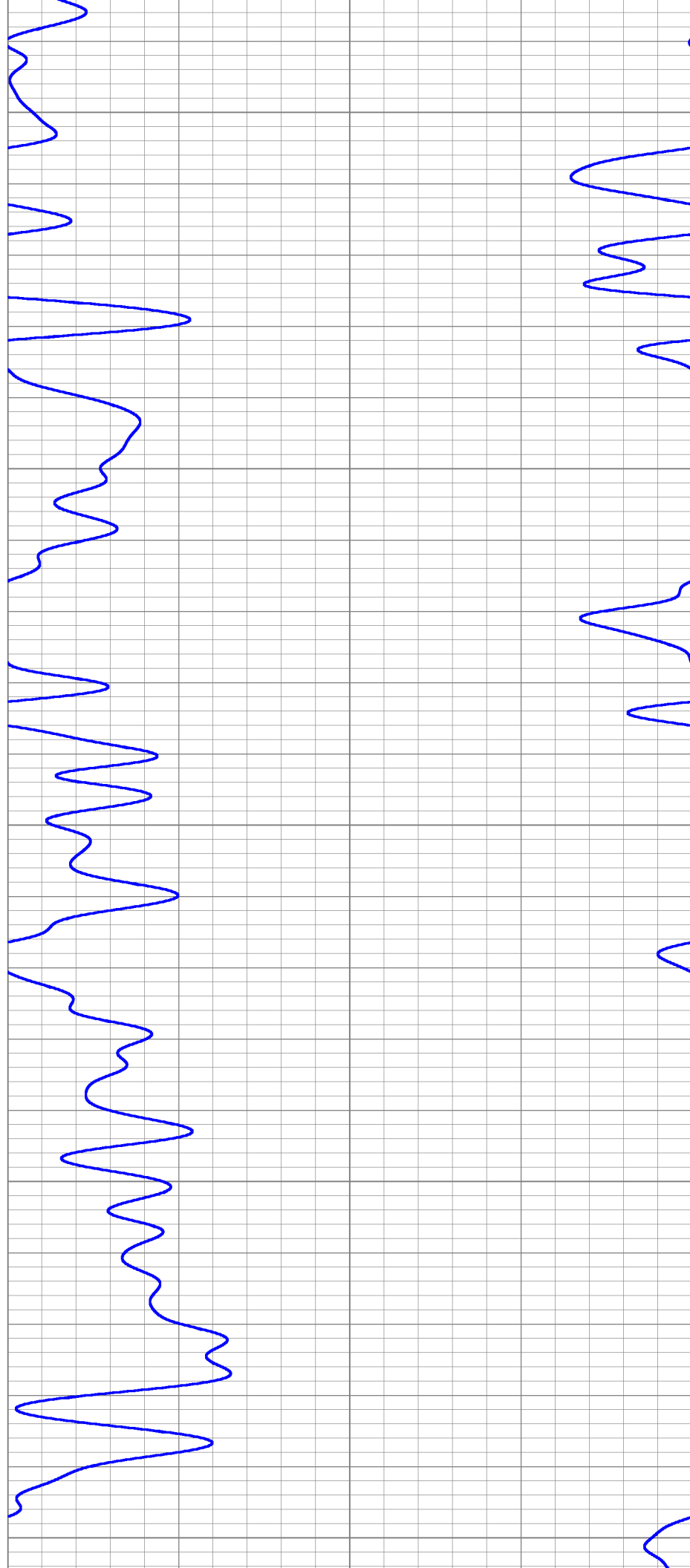
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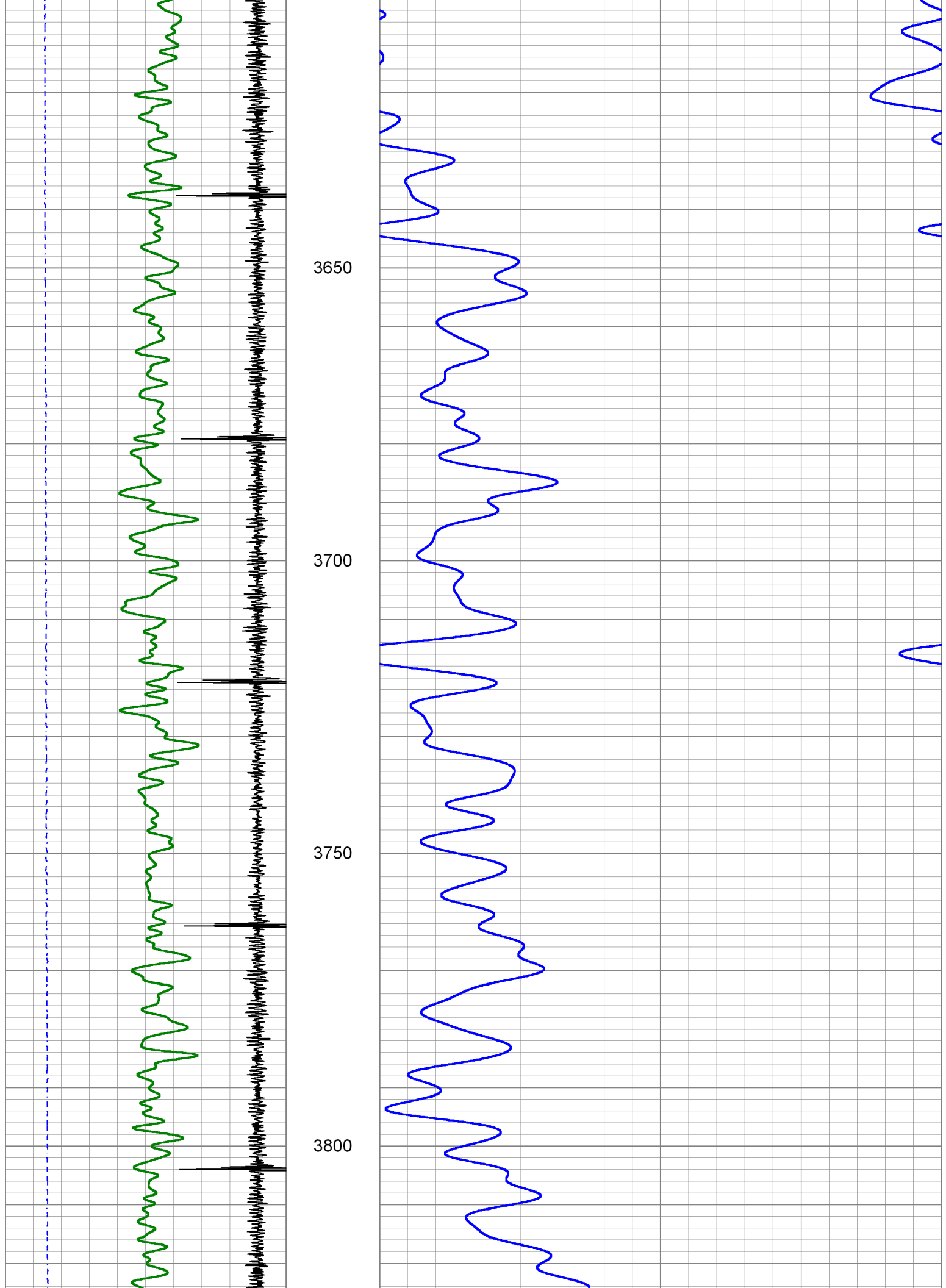
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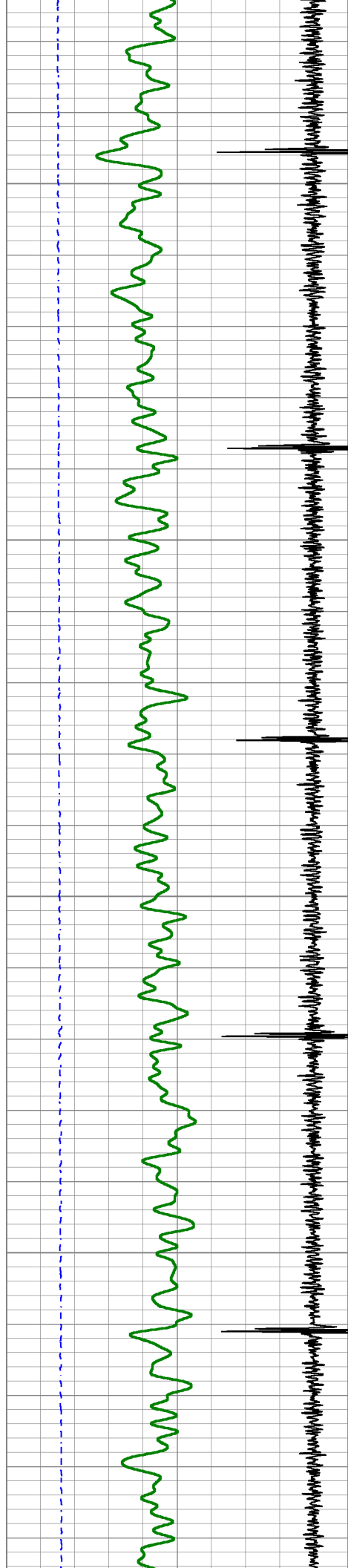
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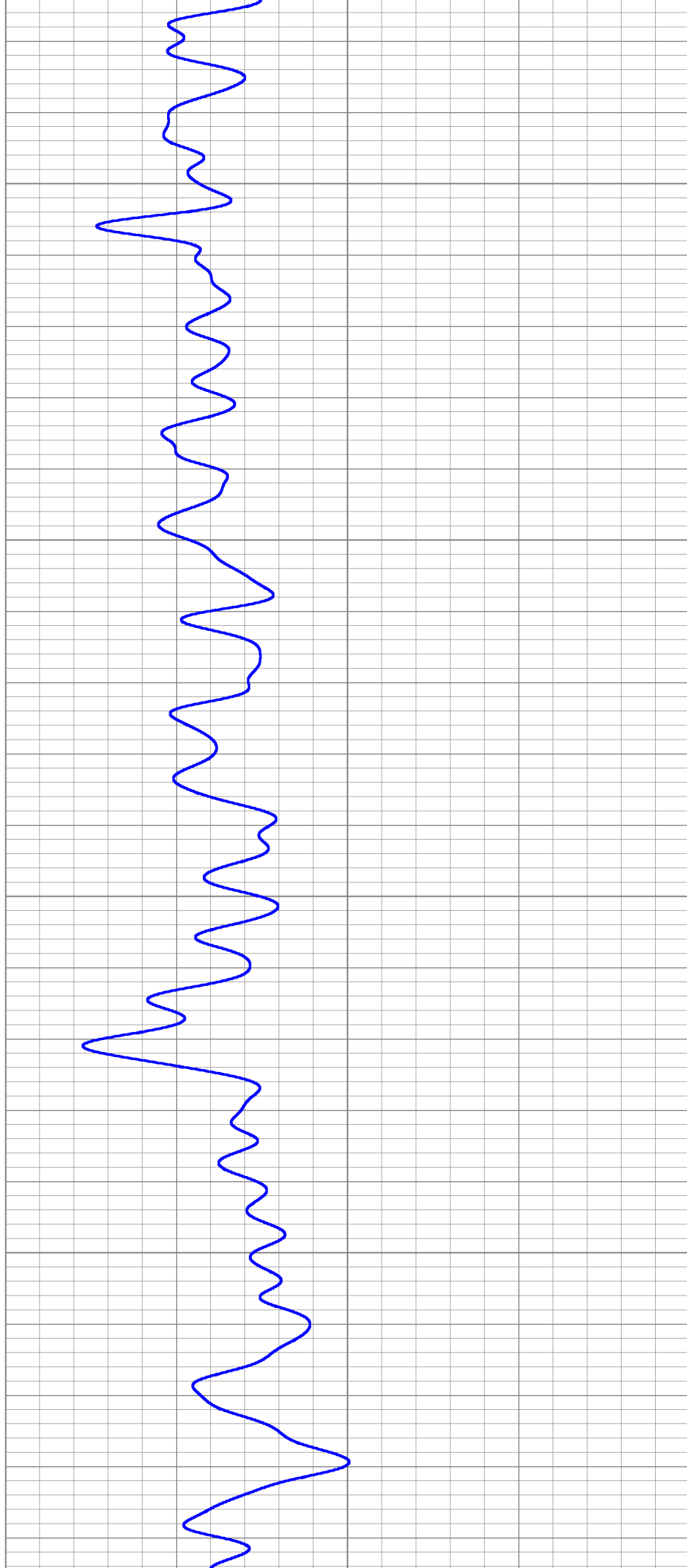


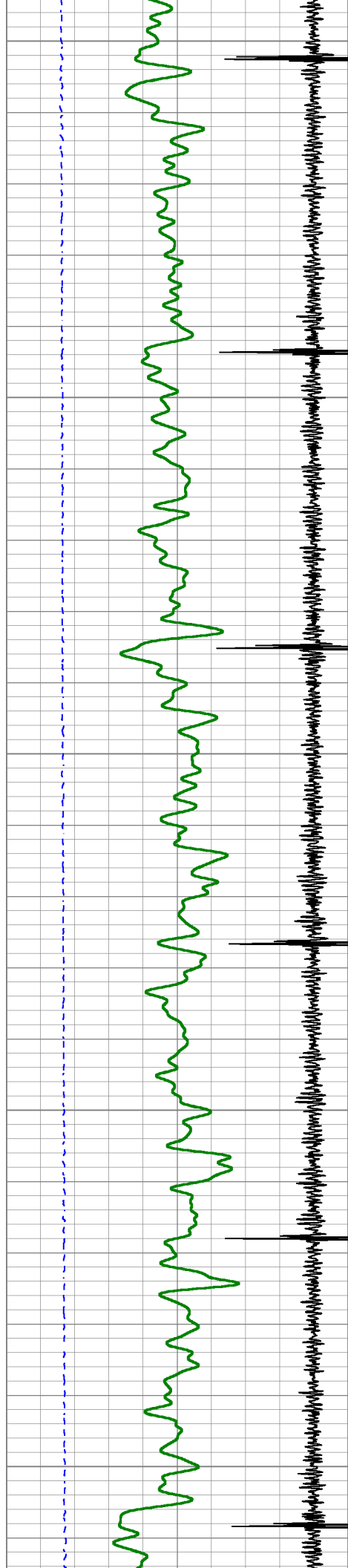
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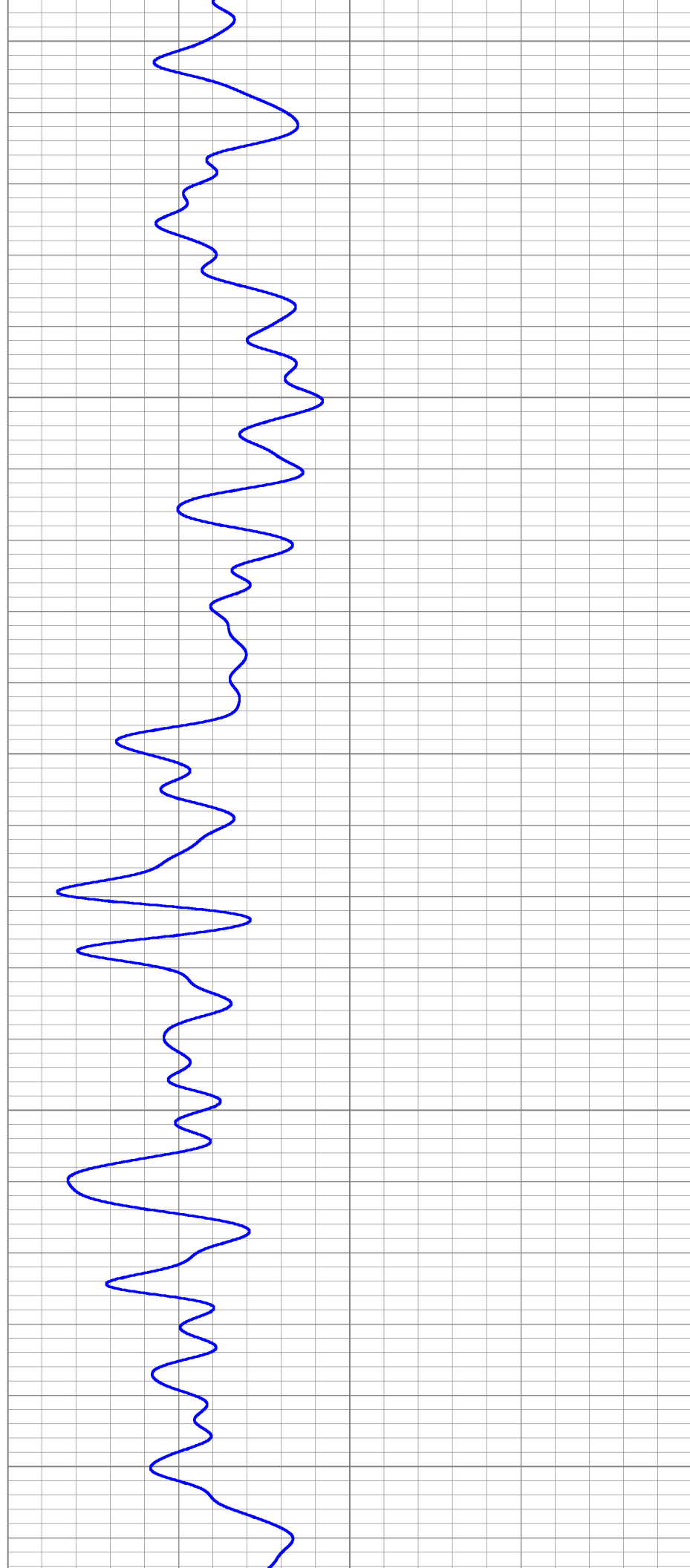
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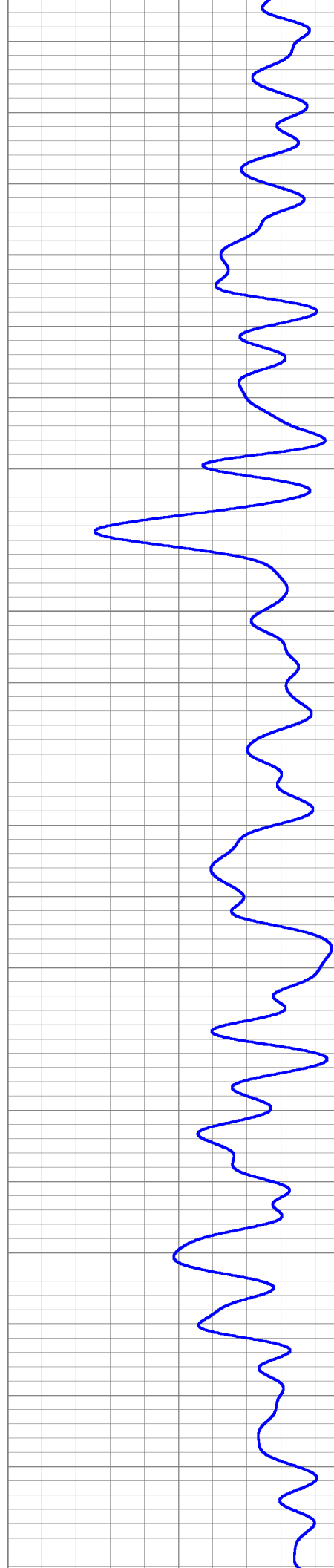
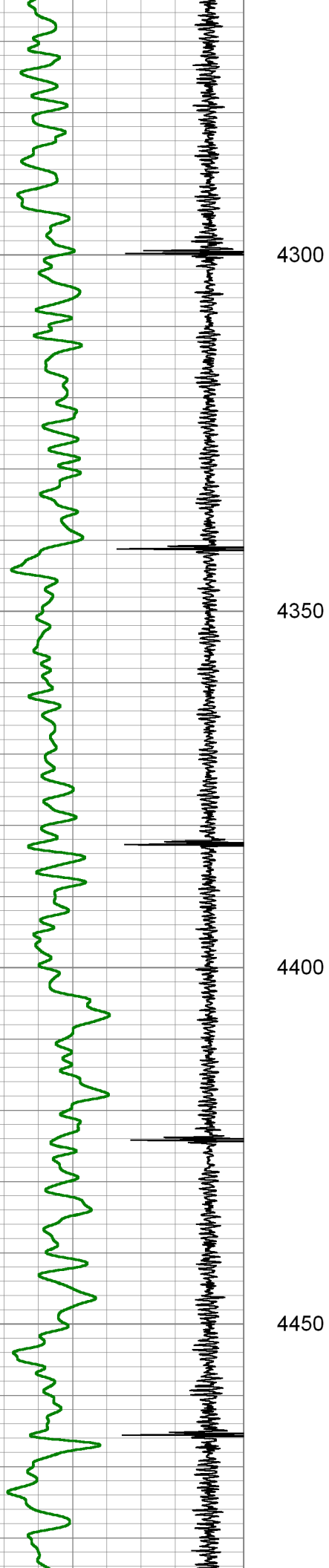
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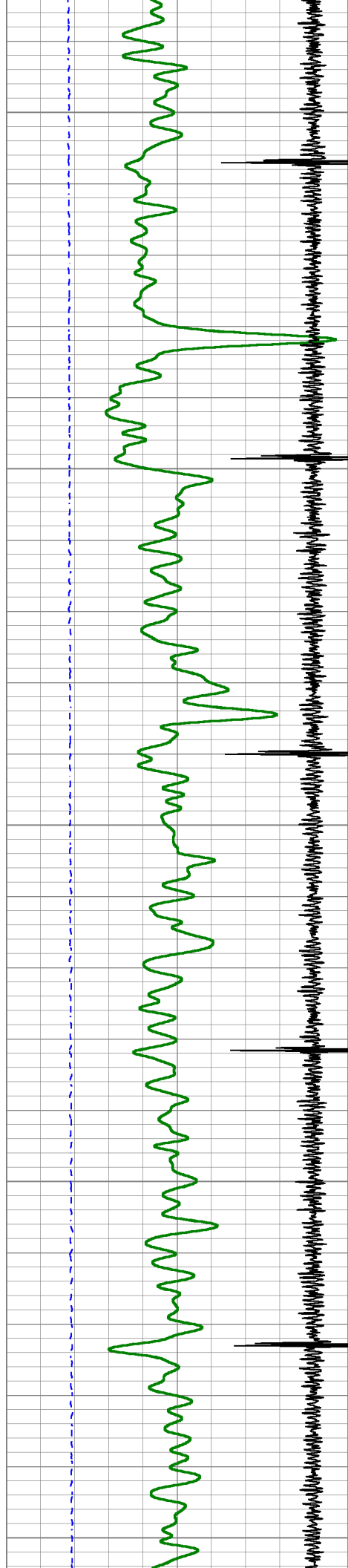
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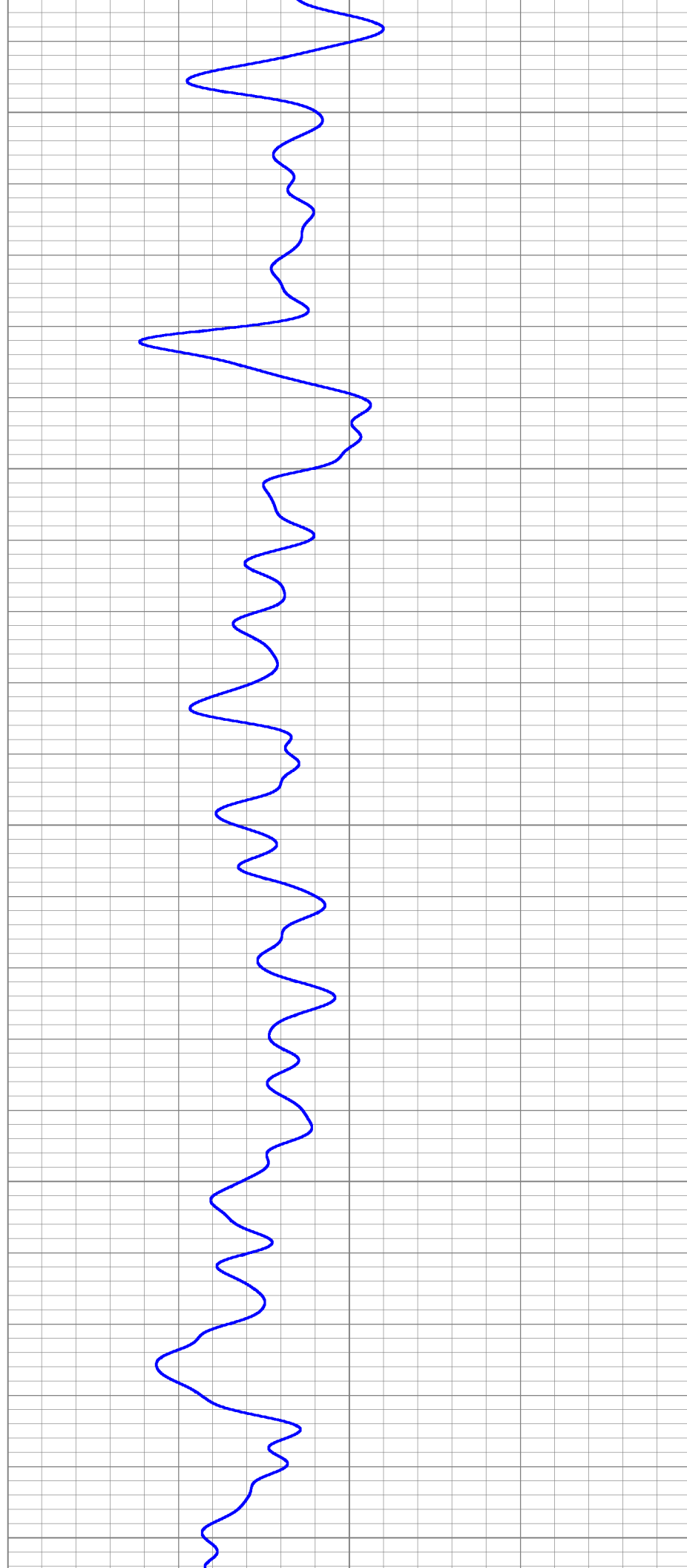
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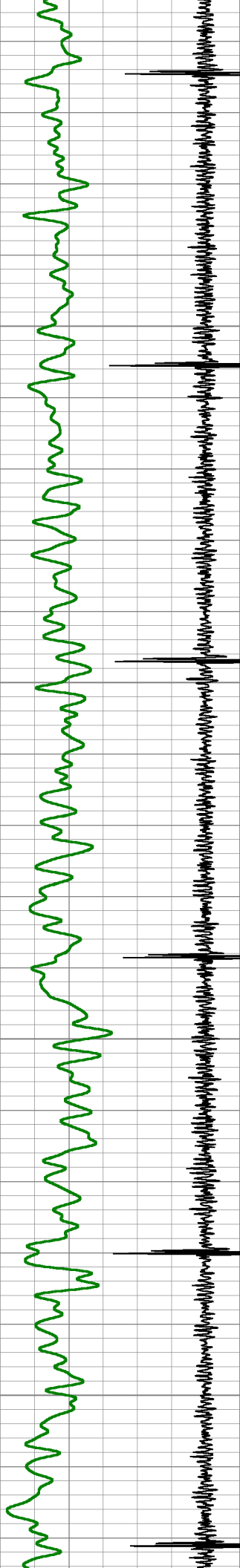
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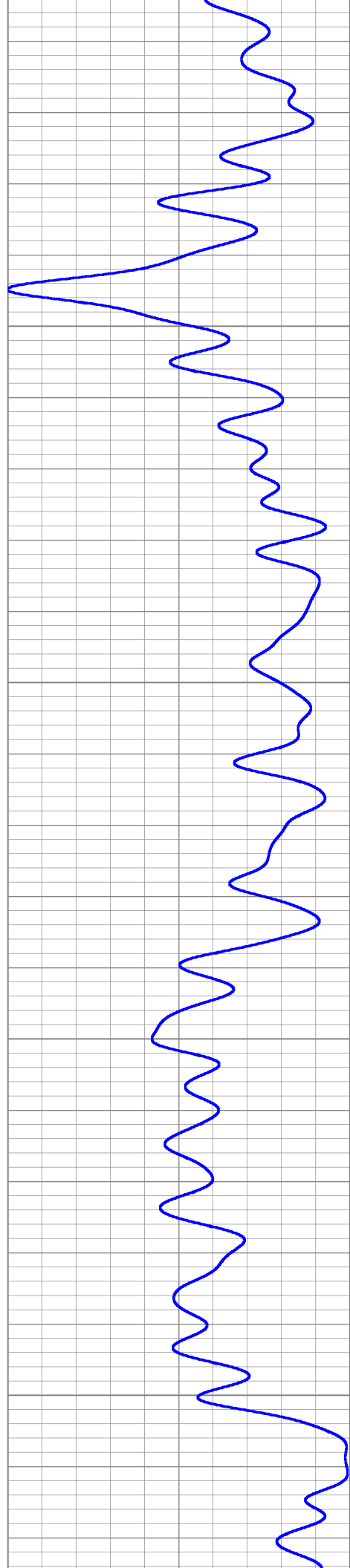


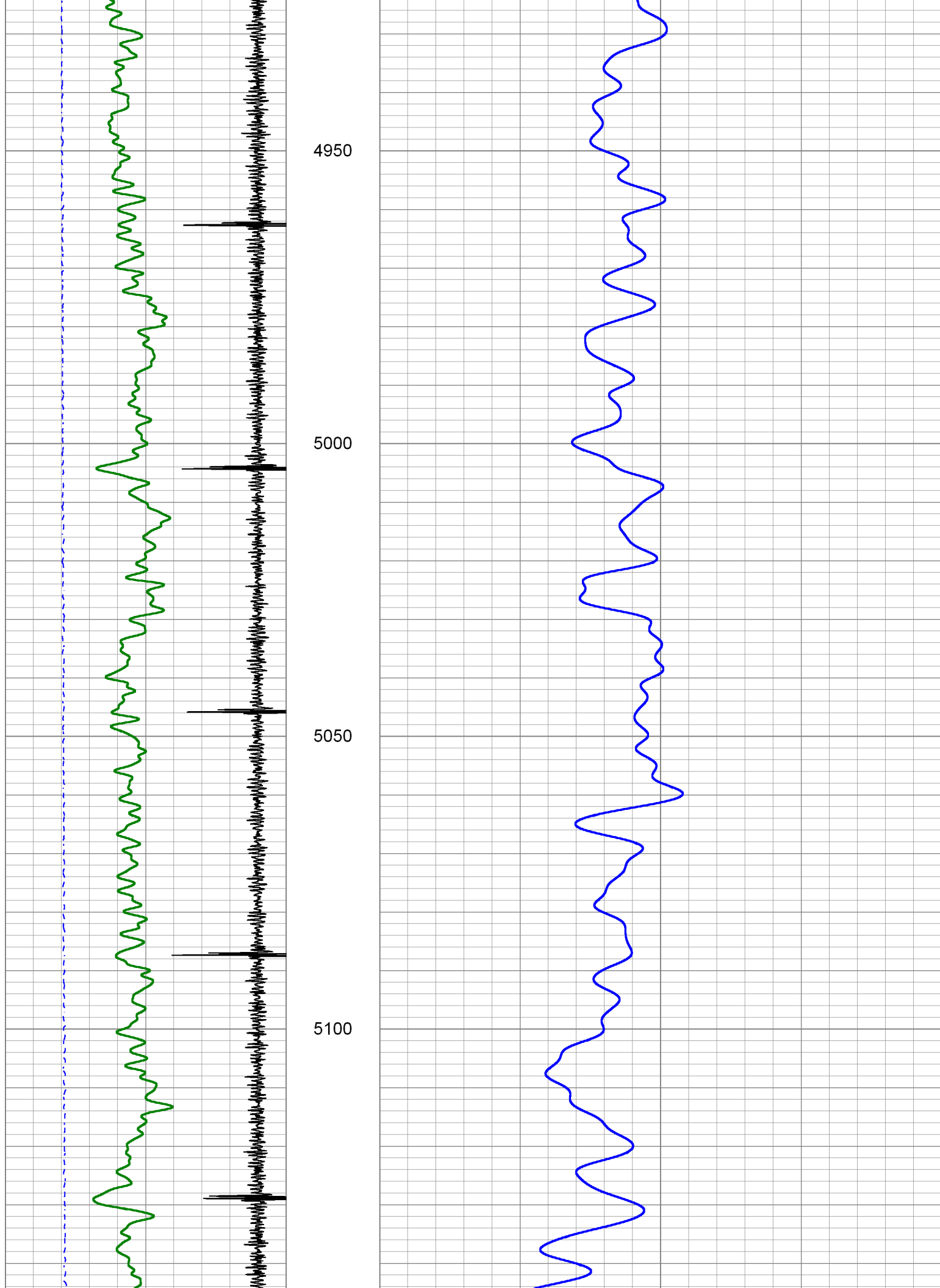
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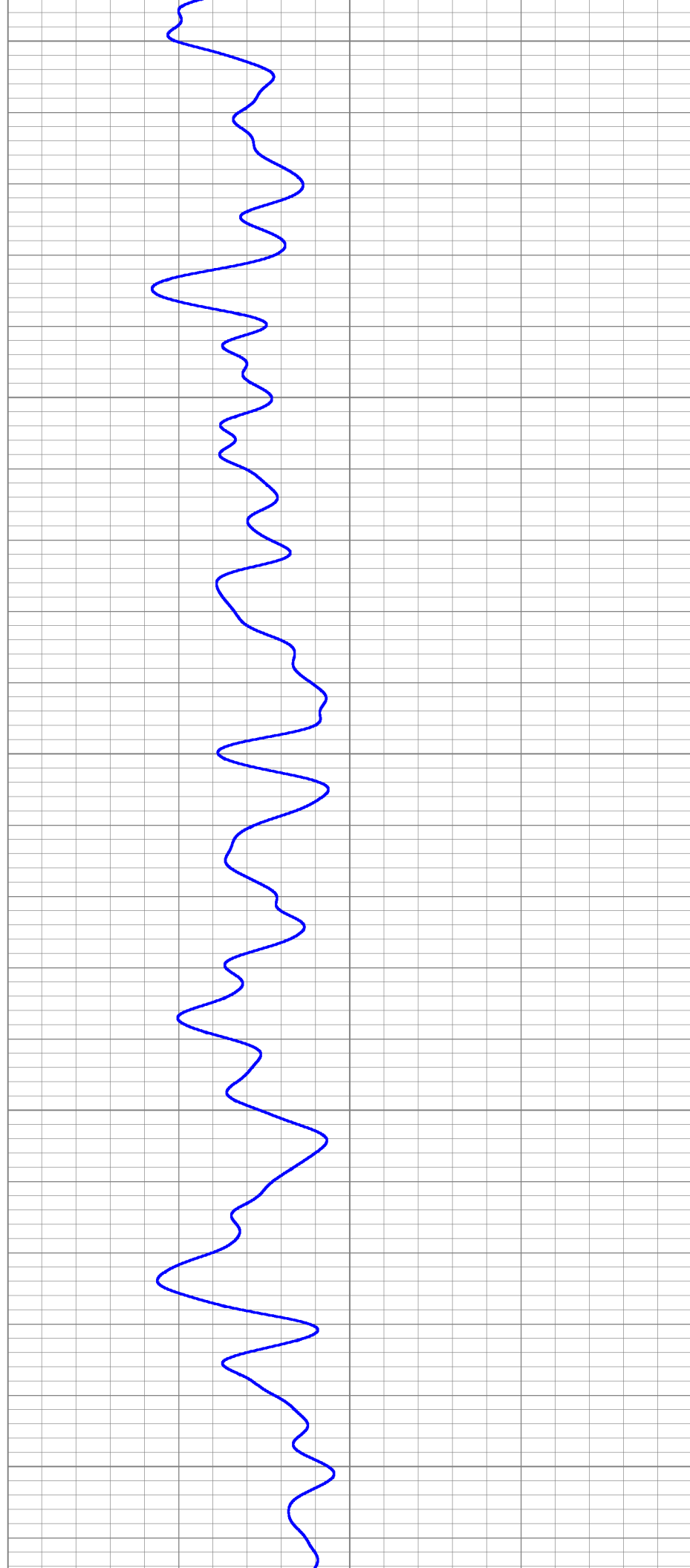
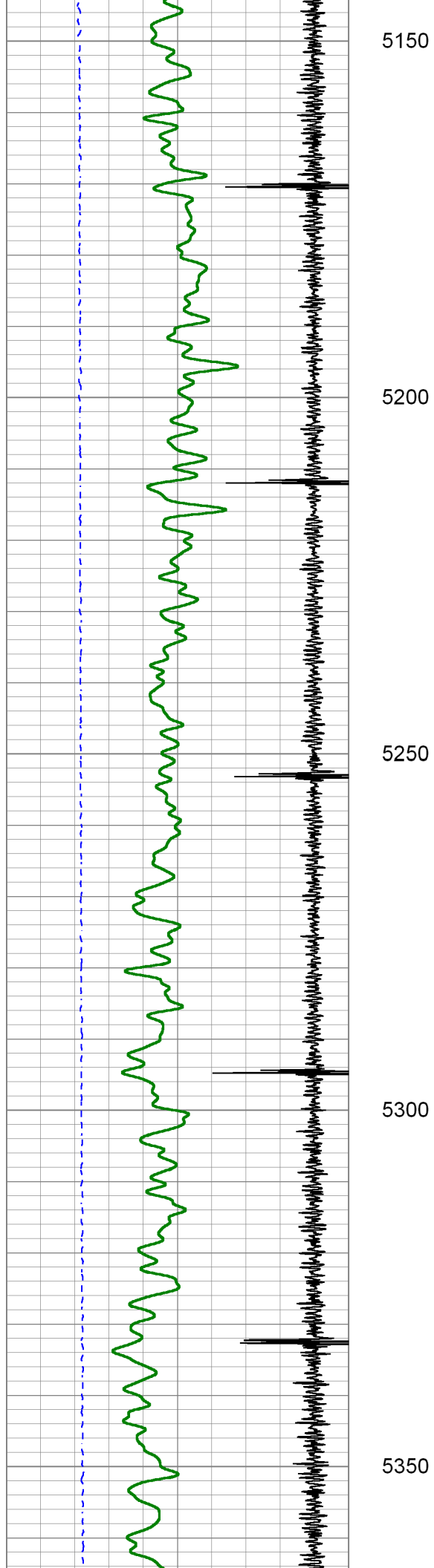
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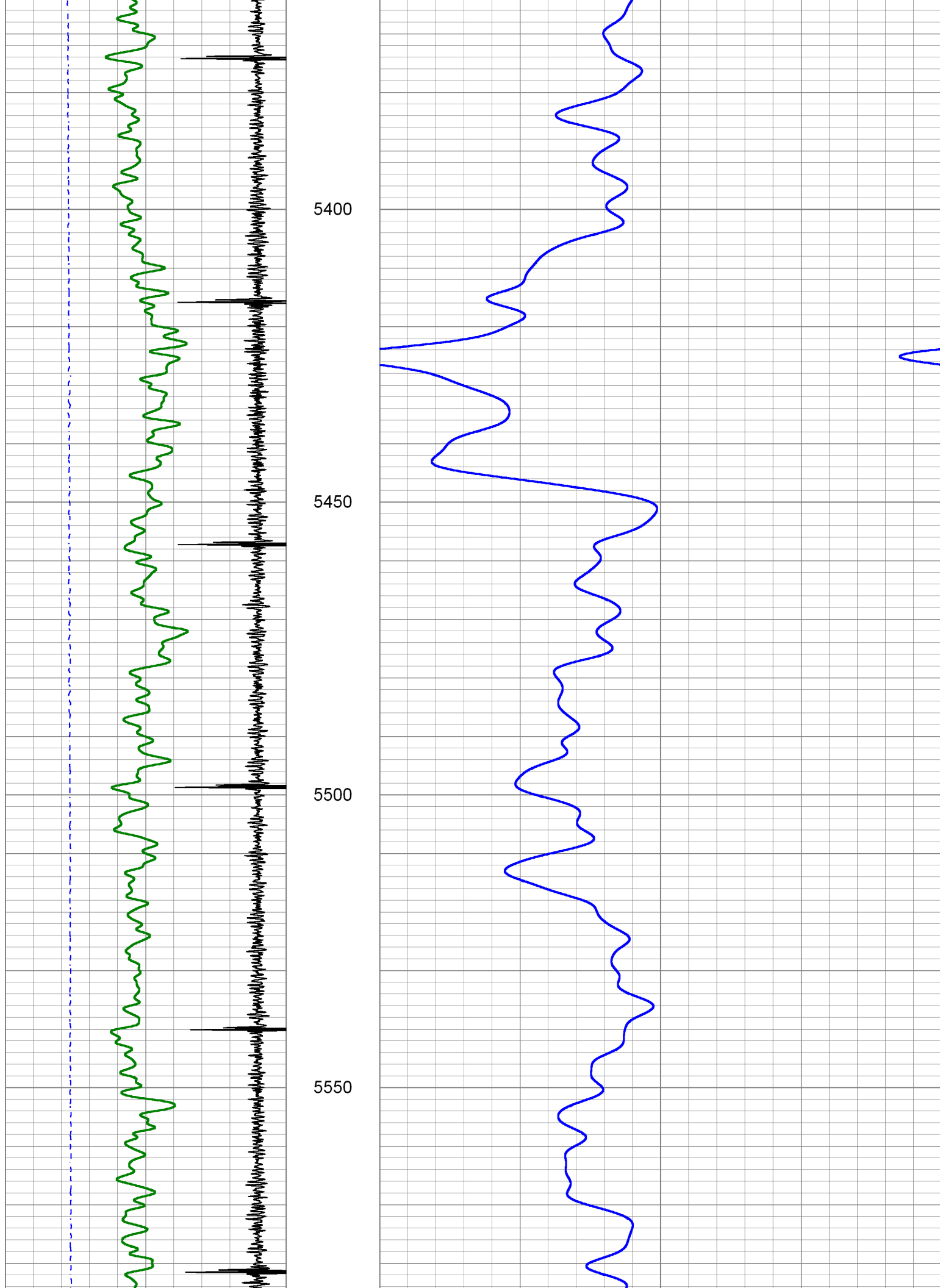
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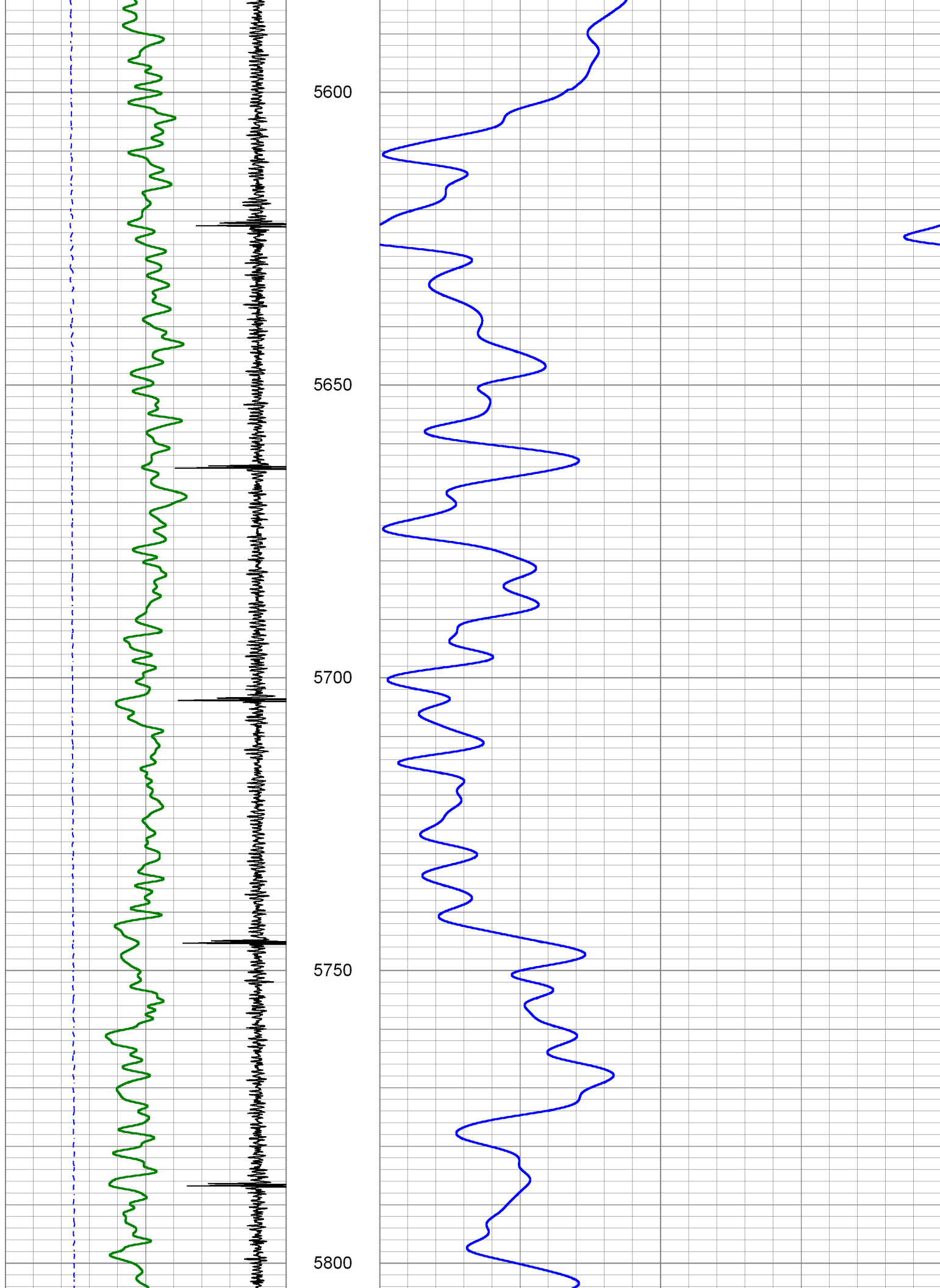
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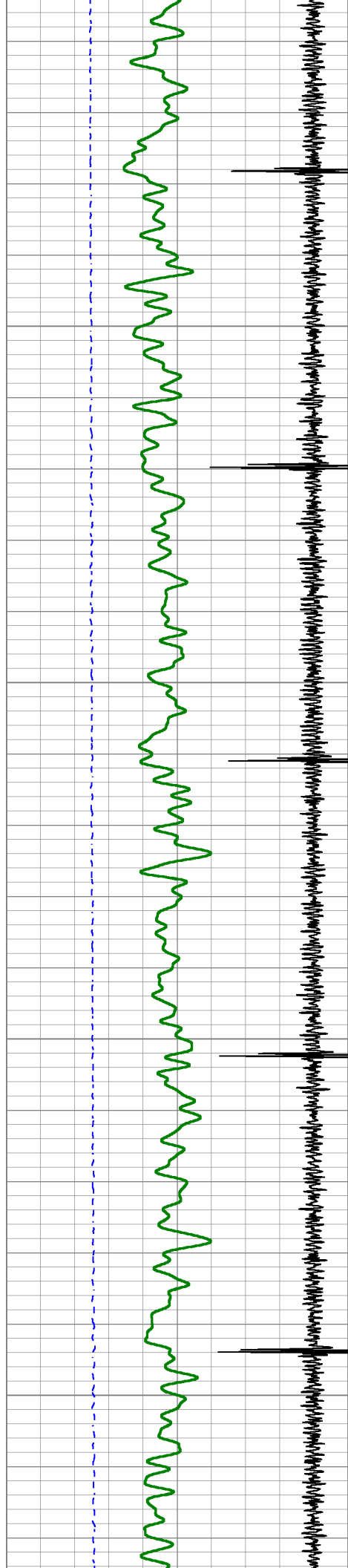










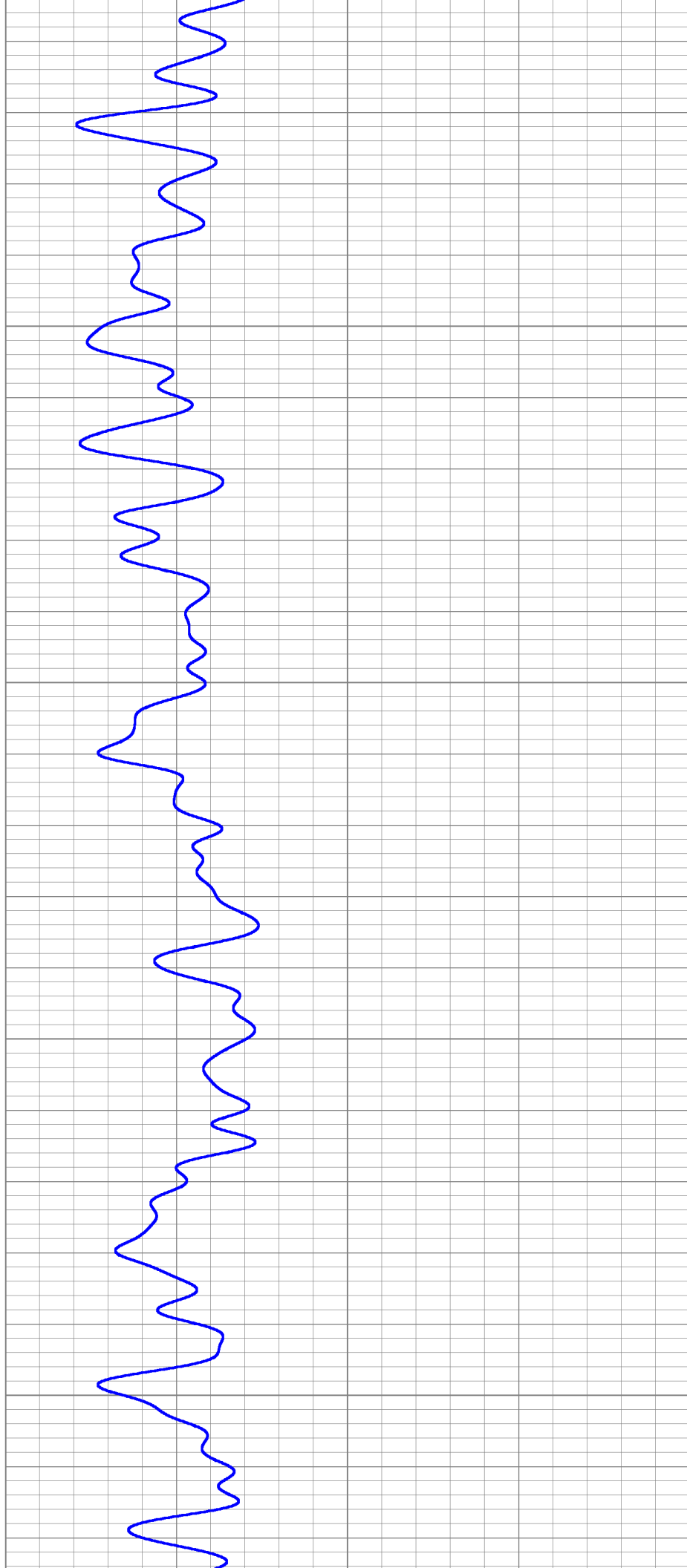


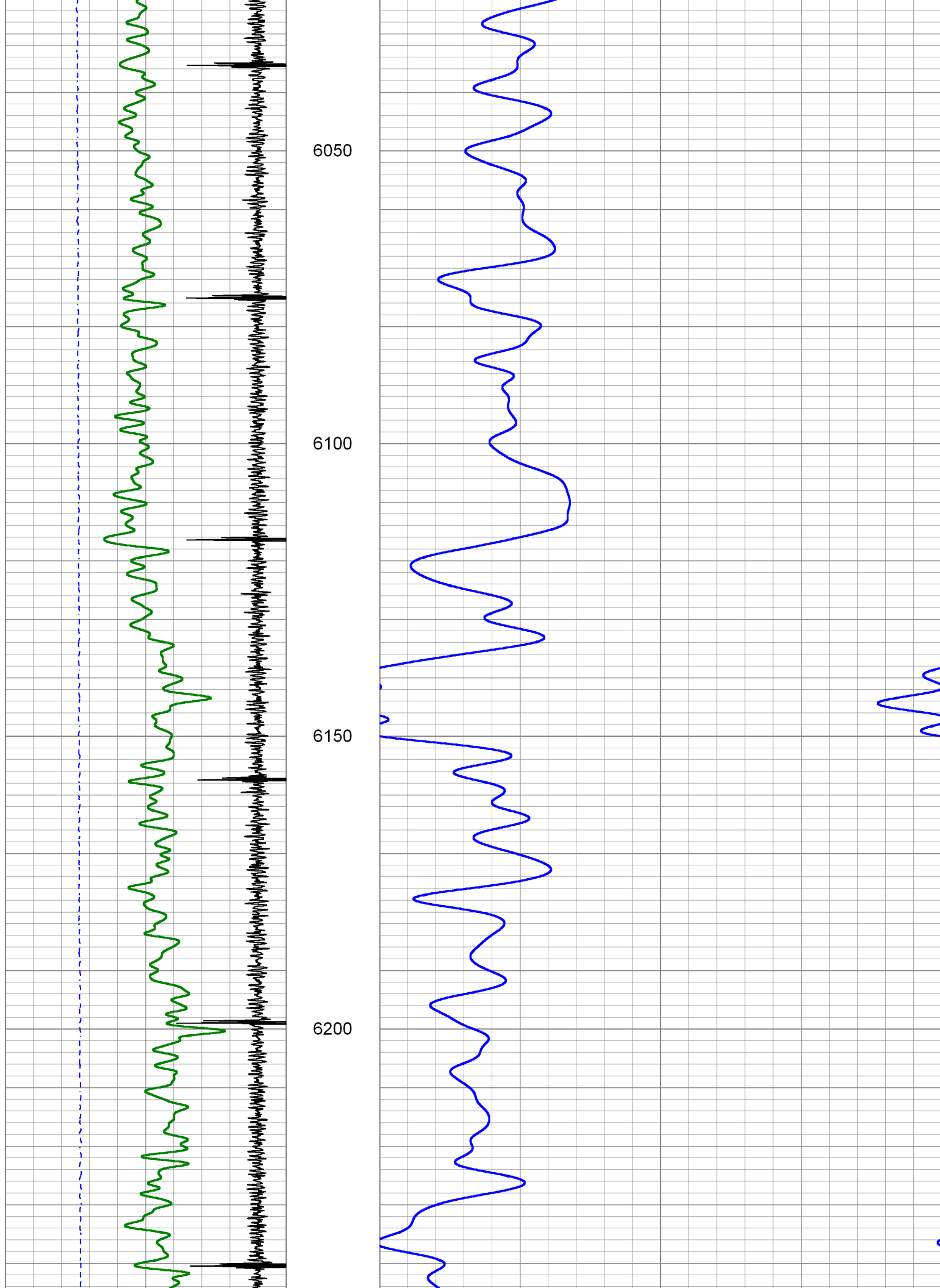
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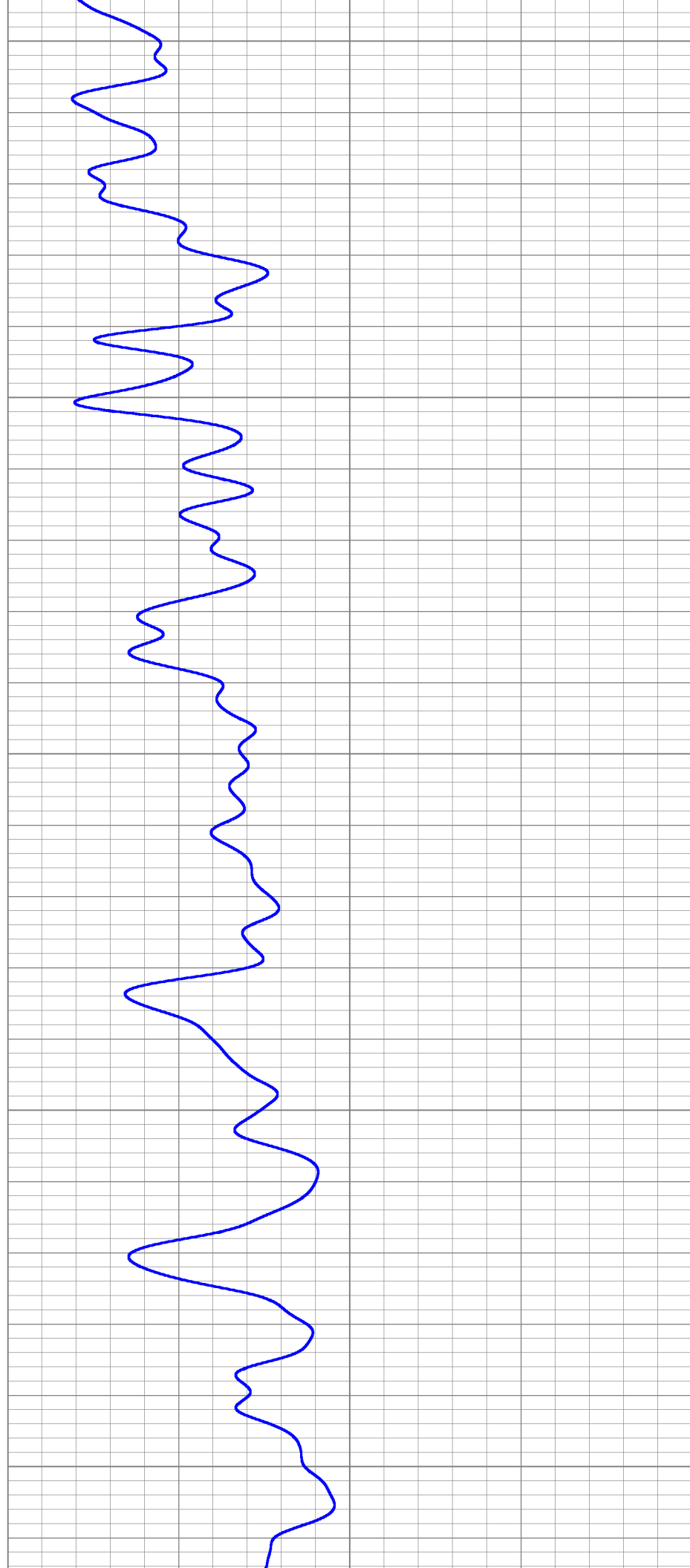
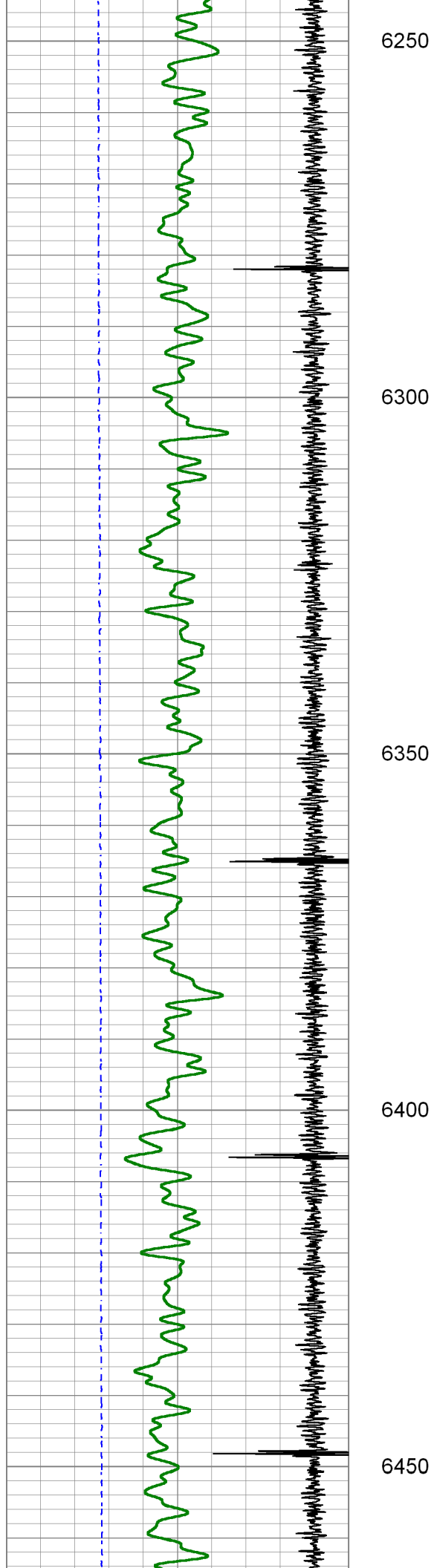
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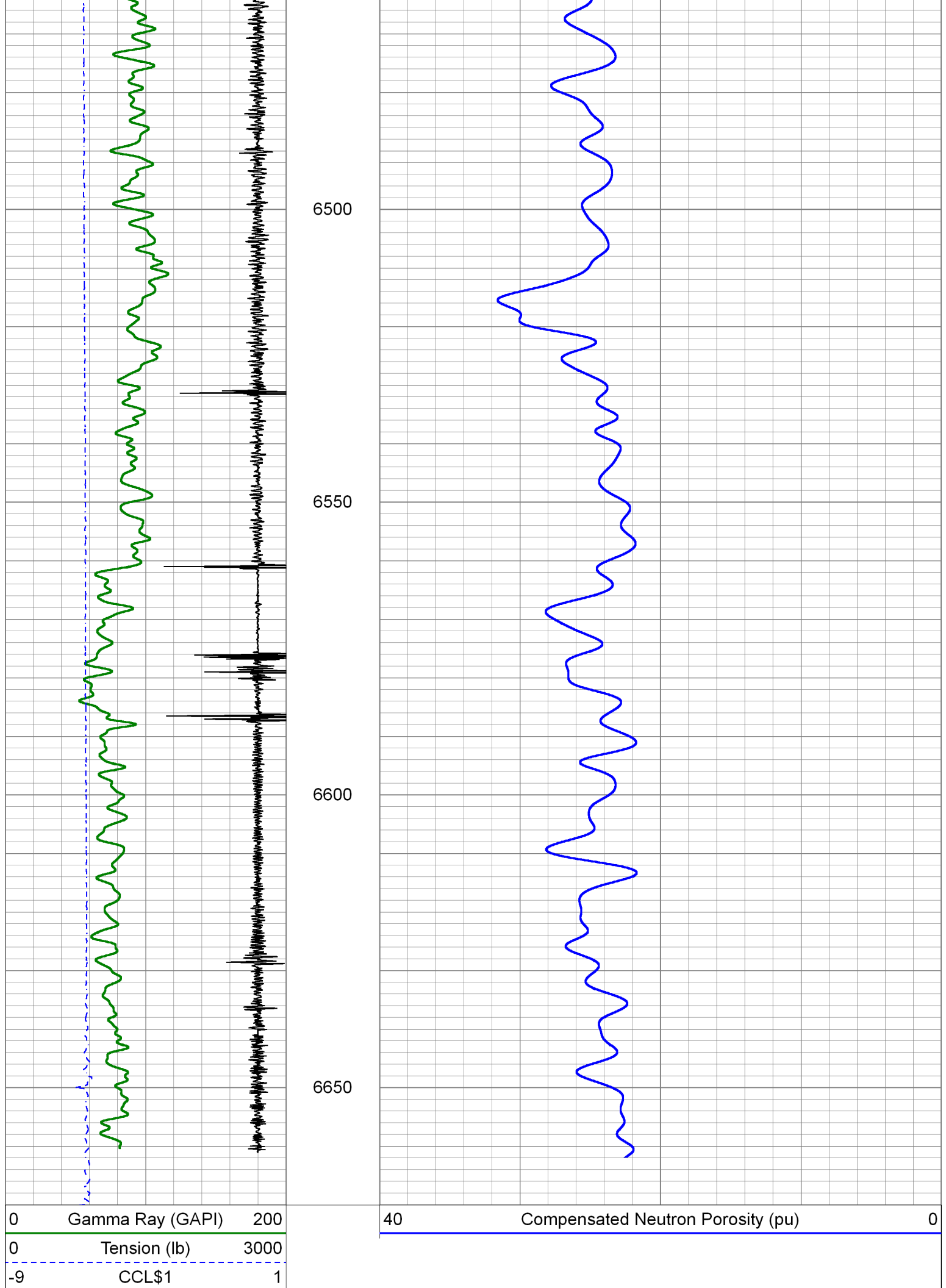
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6000









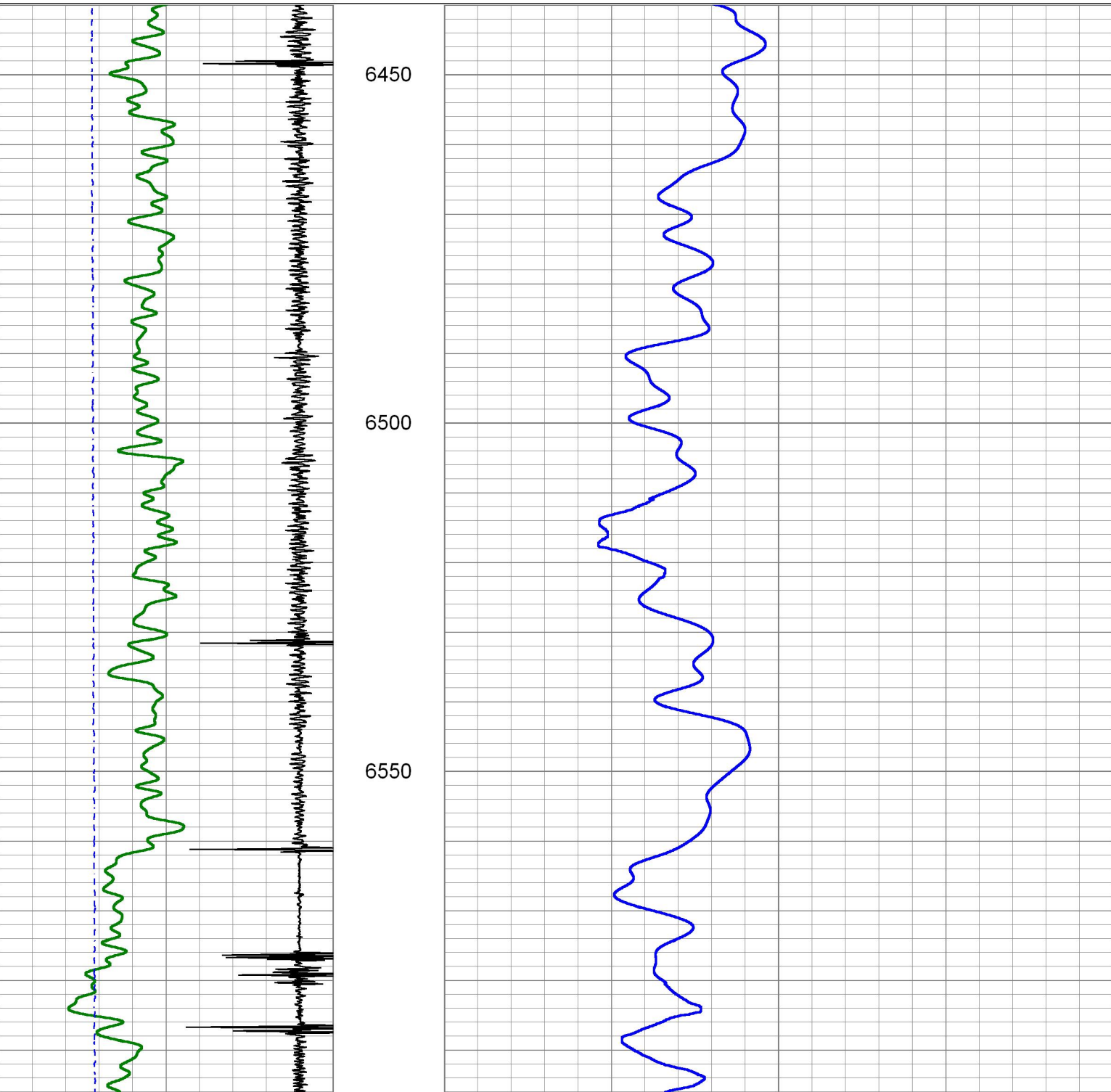


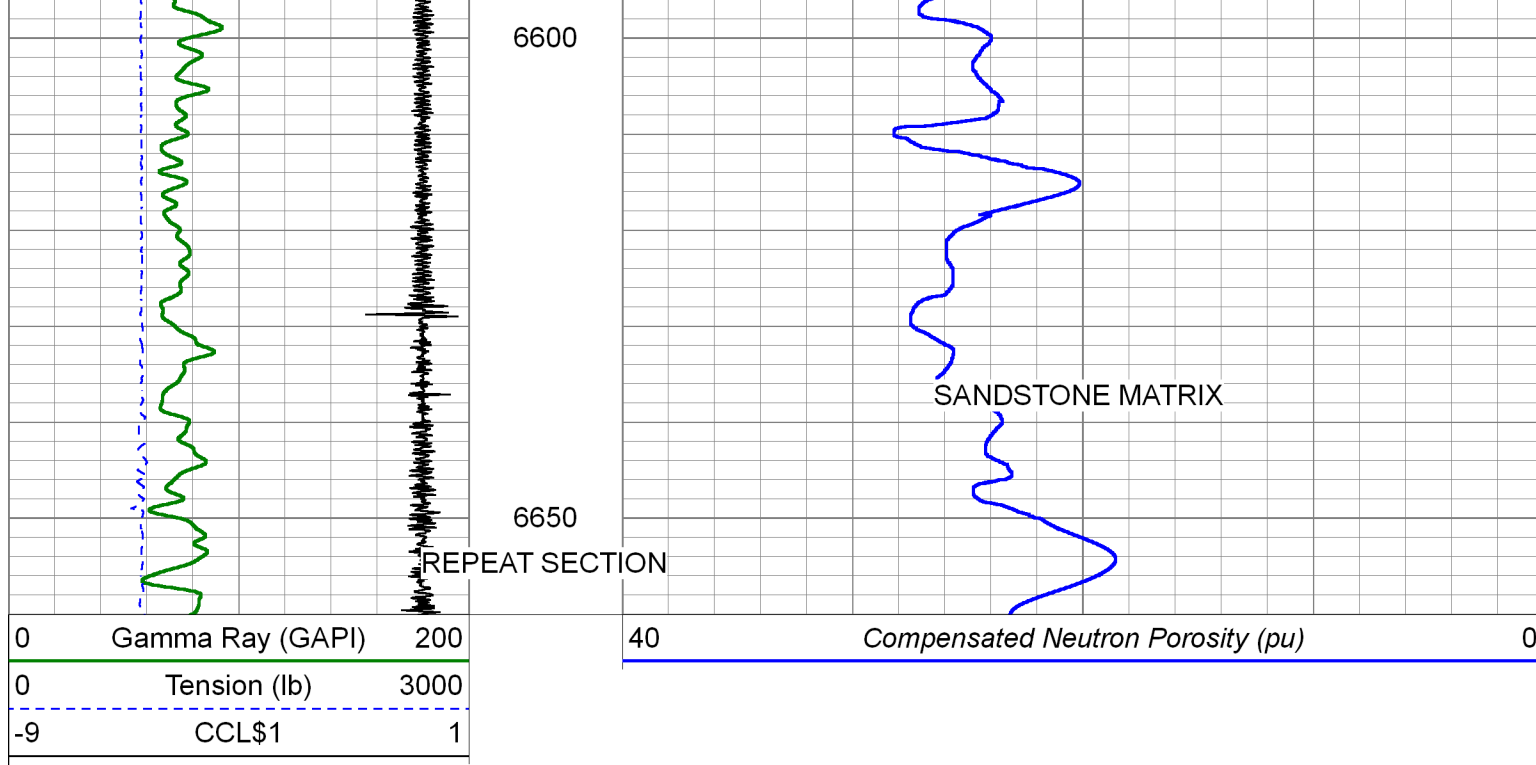
REPEAT SECTION

0 PSI ON WELL WHILE LOGGING

Database File 290153_pdc_hunt_federal_gr_neu.db
Dataset Pathname pass2
Presentation Format pinr_cnl-ft morgan
Dataset Creation Sun Jan 31 12:16:16 2016
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200	40	Compensated Neutron Porosity (pu)	0
0	Tension (lb)	3000			
-9	CCL\$1	1			





Calibration Report					
Database File	290153_pdc_hunt_federal_gr_neu.db				
Dataset Pathname	pass3				
Dataset Creation	Sun Jan 31 12:22:56 2016				
Compensated Neutron Calibration Report					
		Serial Number:		120508	
		Tool Model:		275BL	
CALIBRATION			Thu May 03 15:03:35 2012		
	Detector	Readings		Target	
	Short Space	4420.07	cps	0.00	cps
	Long Space	780.48	cps	0.00	cps
PRE-SURVEY VERIFICATION					
	Detector	Readings		Measured	
1)	Short Space	cps			
	Long Space	cps		pu	pu
2)	Short Space	cps			
	Long Space	cps		pu	
3)	Short Space	cps			
	Long Space	cps		pu	
POST-SURVEY VERIFICATION					
	Detector	Readings		Measured	
1)	Short Space	cps			
	Long Space	cps		pu	pu
2)	Short Space	cps			
	Long Space	cps		pu	pu

3)	Short Space	cps		
	Long Space	cps	pu	pu
Gamma Ray Calibration Report				
Serial Number:		FW1404-109		
Tool Model:		GC_6PIN		
Performed:		Sat Jan 09 13:07:54 2016		
Calibrator Value:		1.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		1.0	cps	
Sensitivity:		0.8500	GAPI/cps	

	Company	PDC ENERGY INC.
	Well	HUNT FEDERAL 28X-314
	Field	WATTENBERG
	County	WELD
	State	CO