

HALLIBURTON										CEMENT BOND LOG									
Company VERDAD OIL & GAS					Company VERDAD OIL & GAS														
Well ROWE 01N-65W-26-8N					Well ROWE 01N-65W-26-8N														
Field WATTENBERG					Field WATTENBERG														
County WELD State CO					County WELD State CO														
API No.: 05-123-41257					Srv #: 902641054					Other Services									
Location: SHL: 208' FNL & 2317' FWL NENW					LAT: 40.029025					LONG: -104.632485					NONE				
Sec: 26 Twp: 1N Rge: 65W					GROUND LEVEL Elevation 5101														
Log Measured From KB					KB , 16 Ft. above perm. datum					K.B. 5117					Elevation				
Drilling Measured From KB										D.F. 5117									
										G.L. 5101									
Date @ Time Logged 8/6/15 @ 11:30					Type Fluid in Hole					FRESH WATER									
Run No. ONE					Density of Fluid					8.4#									
Depth - Driller 7354					Fluid Level					20									
Depth - Logger 7354					Cement Top Est. Logged					4570									
Bottom - Logged Interval 7354					Equipment / Location					11828982 / BRIGHTON									
Top - Log Interval SURFACE					Recorded by					JACK SCHMIDT									
Max. Recorded Temp. N/A					Witnessed by					JOSH THOMASON									
CEMENTING DATA					Surface					Protection					Production				
					String					String					Liner				
Date / Time Cemented																			
Primary / Squeeze																			
Expected																			
Compressive Strength					psi@ hrs					psi@ hrs					psi@ hrs				
Cement Volume																			
Cement Type / Weight					/					/					/				
Formulation																			
Mud Type / Mud Wgt.					/					/					/				
Borehole Record					Casing & Tubing Record														
Run Number					Bit					From					To				

Service Ticket No.	902641054	API No.	05-123-41257-00	PGM Ver	WARRIOR 8.0
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
CBL		GAMMA			
Run No.	ONE	Run No.	ONE	Run No.	Run No.
Serial No.	11343286	Serial No.	10973876	Serial No.	Serial No.
Model No.	CBL-PROBE	Model No.	GPT	Model No.	Model No.
Diameter	2.75"	Diameter	2.75"	Diameter	Diameter
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

No.	MAIN	7354	SURFACE	0 psi	60			
		CBL		GAMMA				
Pass		Scale		Scale		Scale		Scale
No.		L	R	L	R	L	R	L
		0	100	0	150			
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

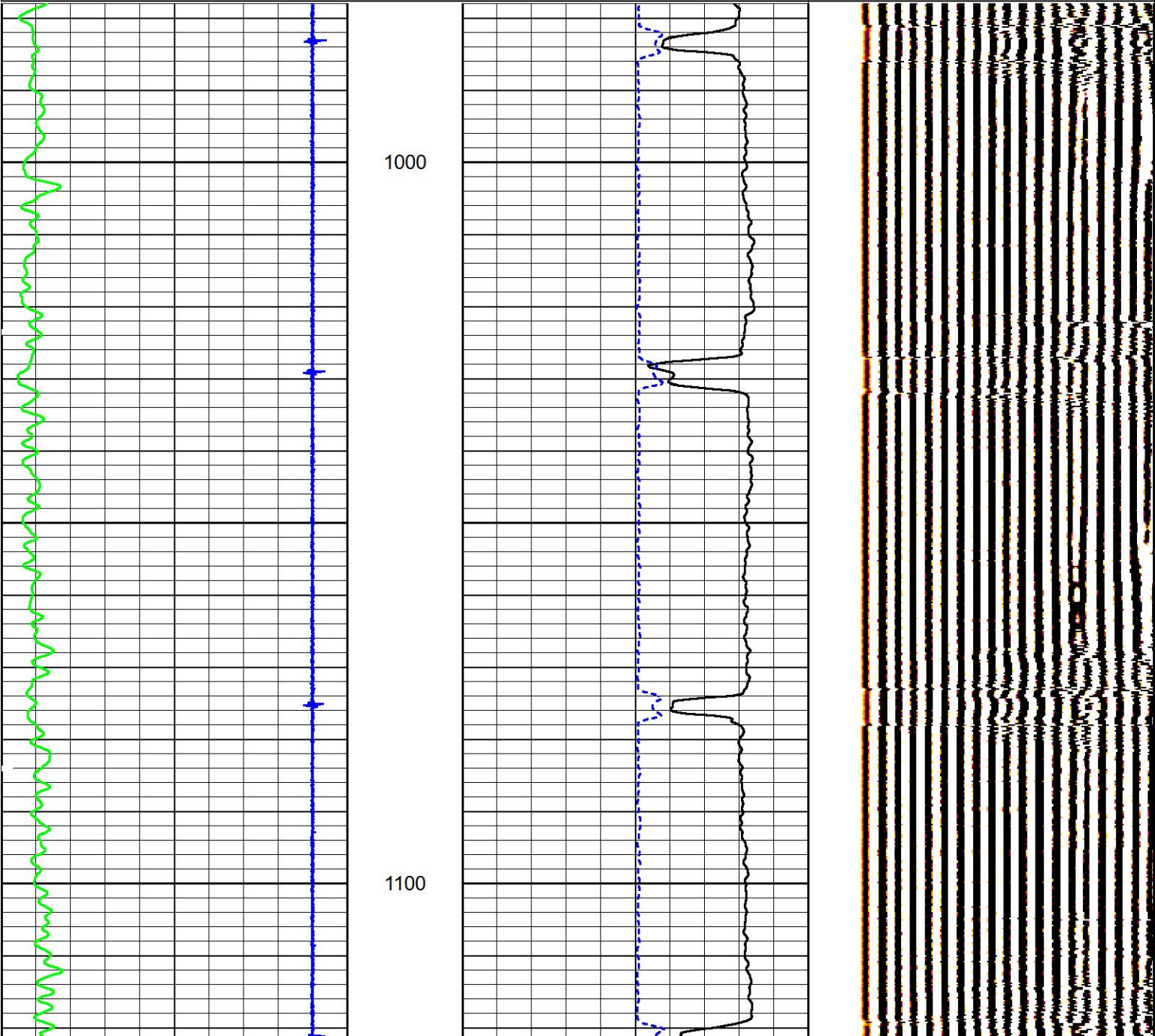
FREE PIPE PASS

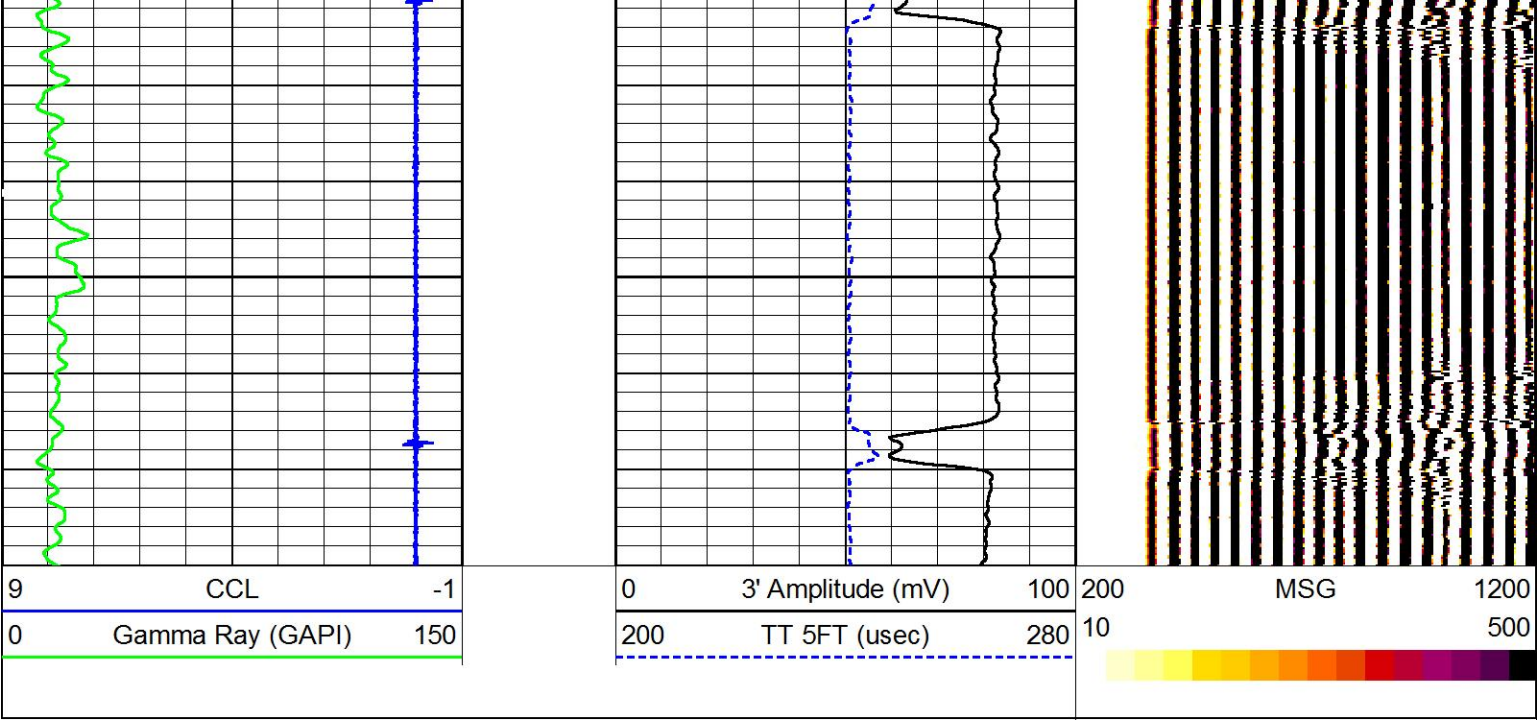
HALLIBURTON

5" = 100'

Database File rowe_26_8n.db
Dataset Pathname DL4
Presentation Format hcbl
Dataset Creation Thu Aug 06 10:49:00 2015
Charted by Depth in Feet scaled 1:240

9	CCL	-1	0	3' Amplitude (mV)	100	200	MSG	1200
0	Gamma Ray (GAPI)	150	200	TT 5FT (usec)	280	10		500





FREE PIPE PASS

HALLIBURTON

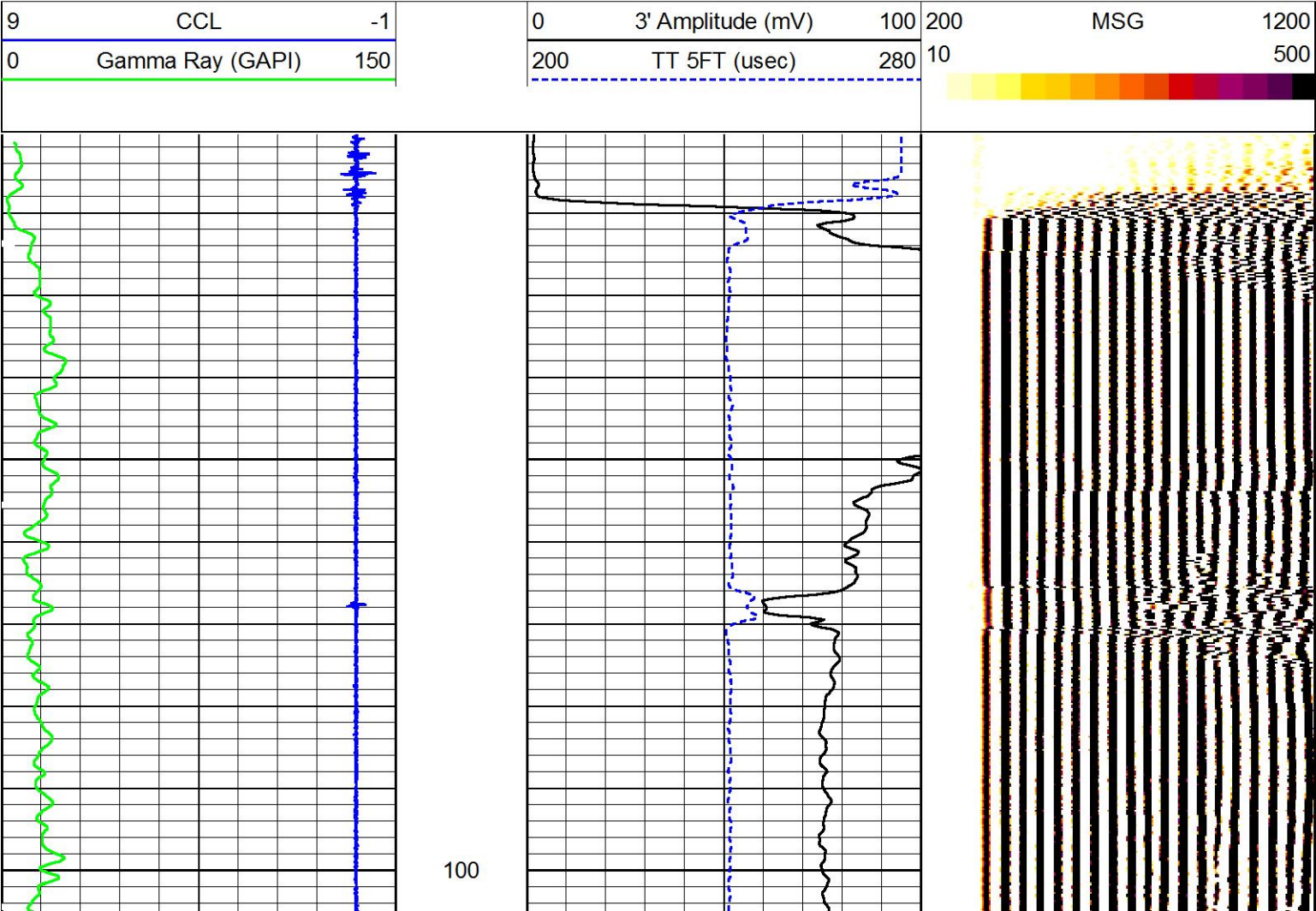
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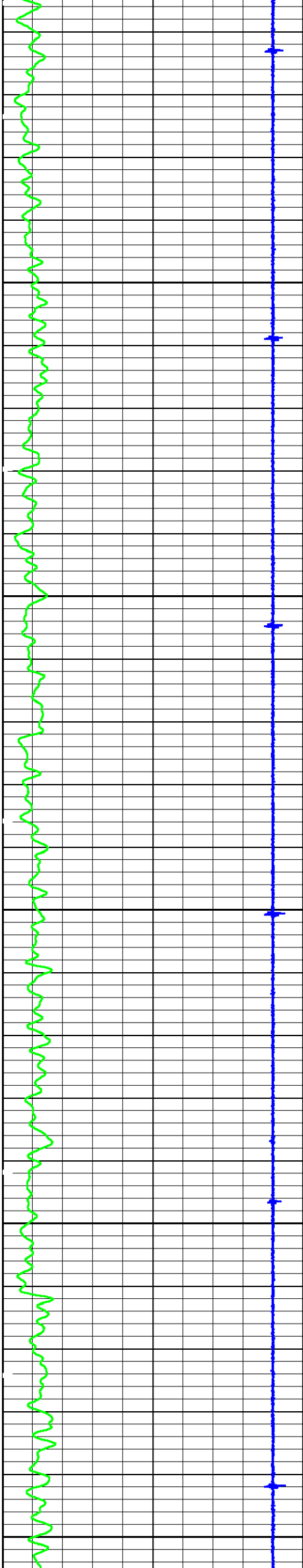
MAIN PASS

HALLIBURTON

5" = 100'

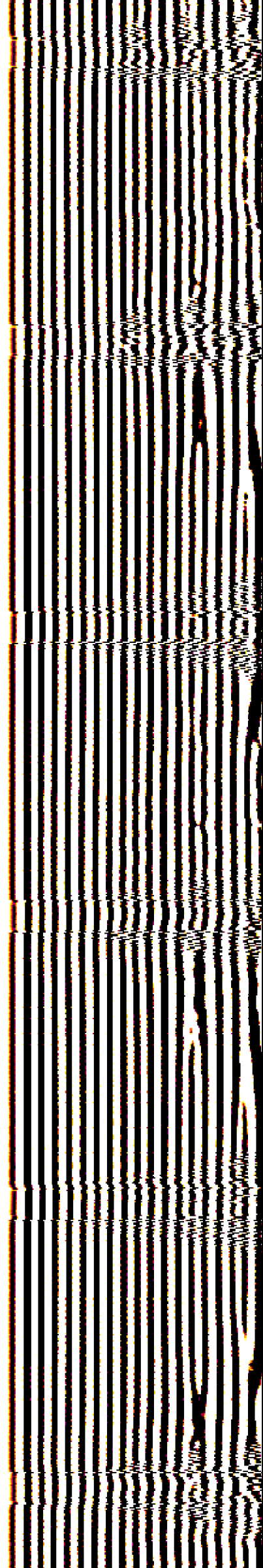
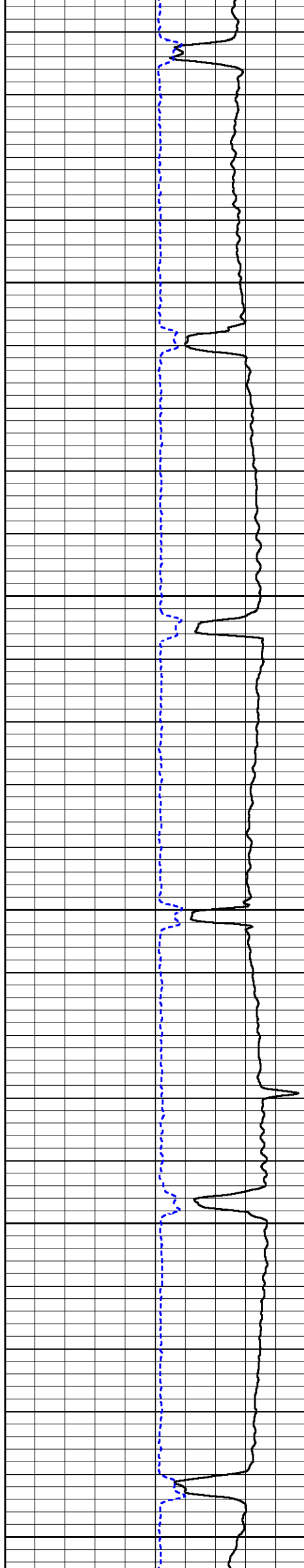
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Dataset Pathname MAIN
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Charted by Depth in Feet scaled 1:240

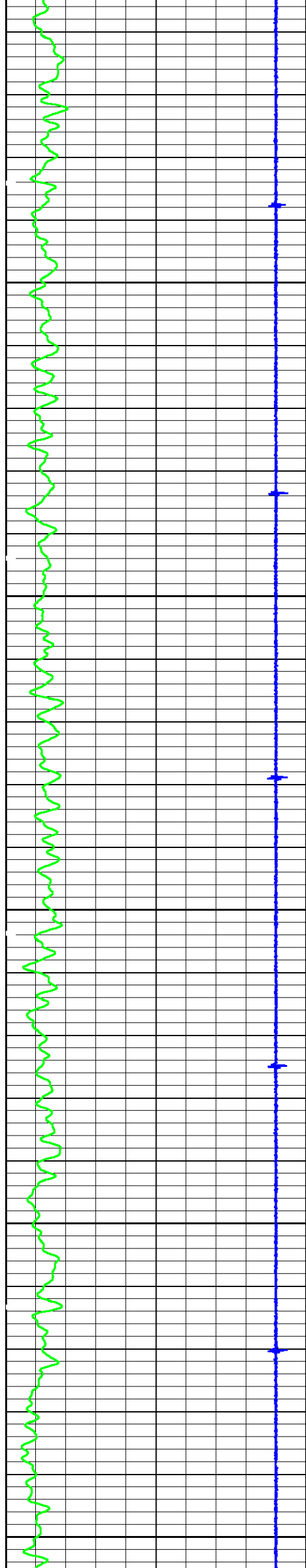




200

300

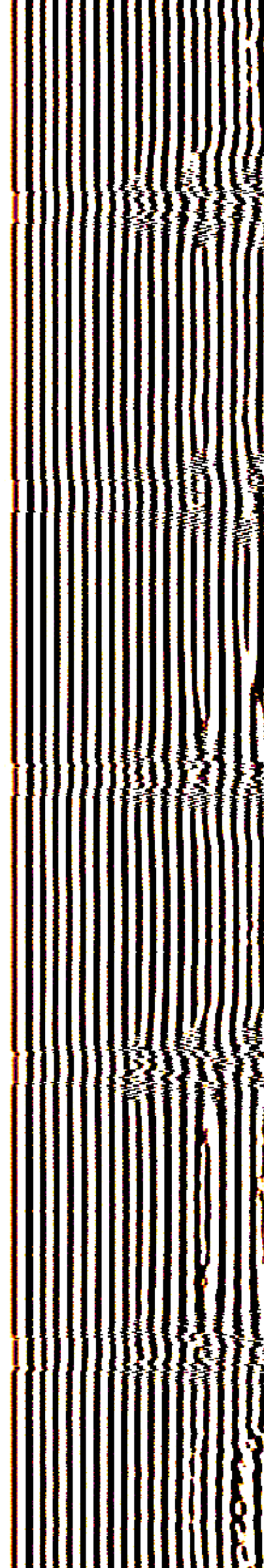
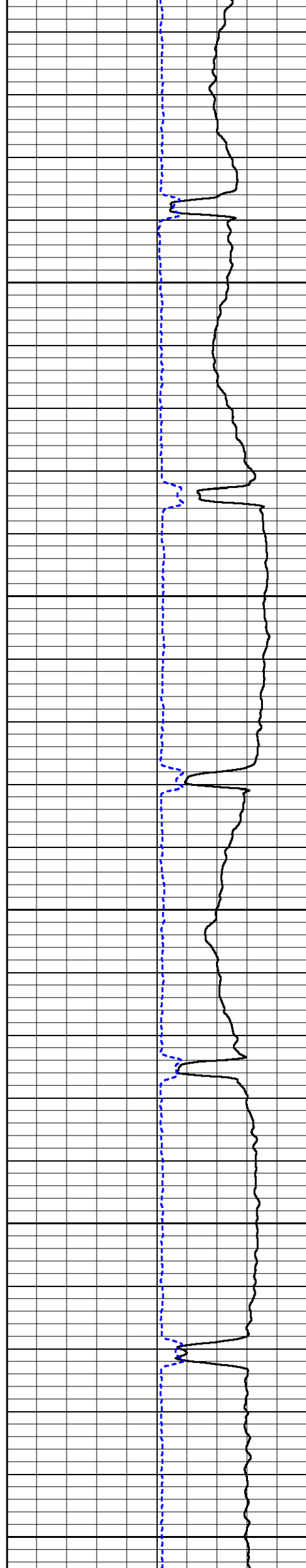


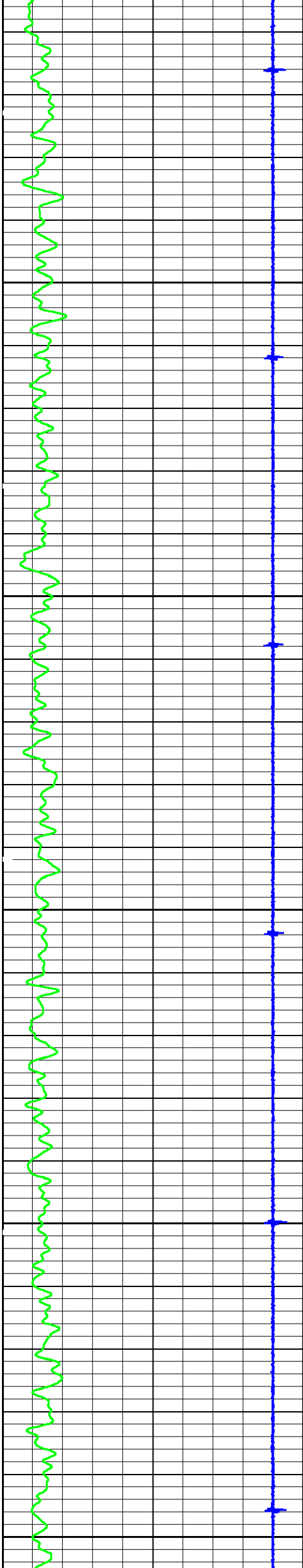


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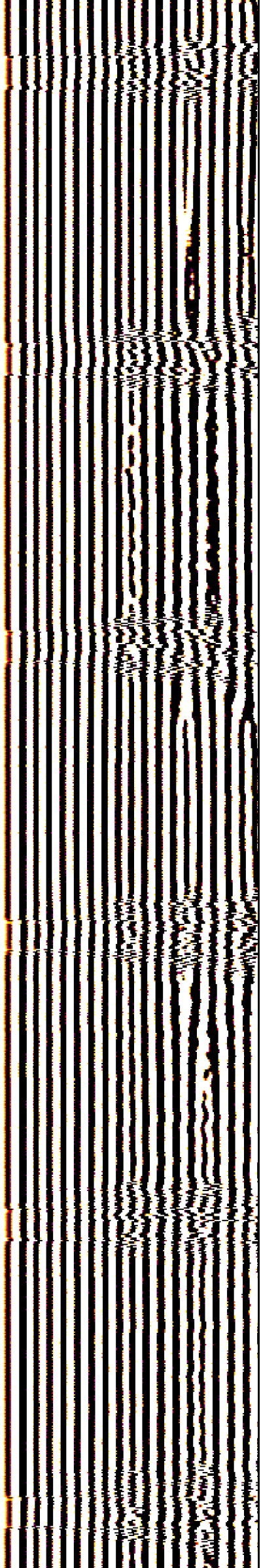
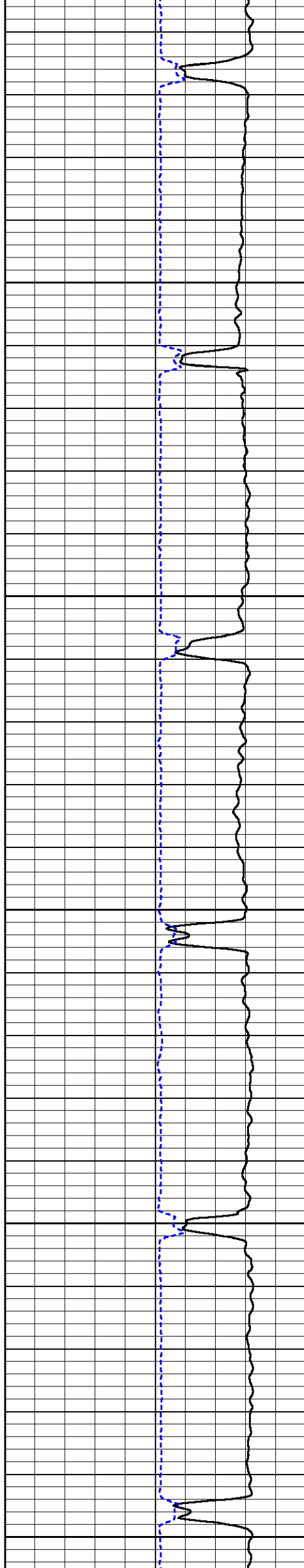
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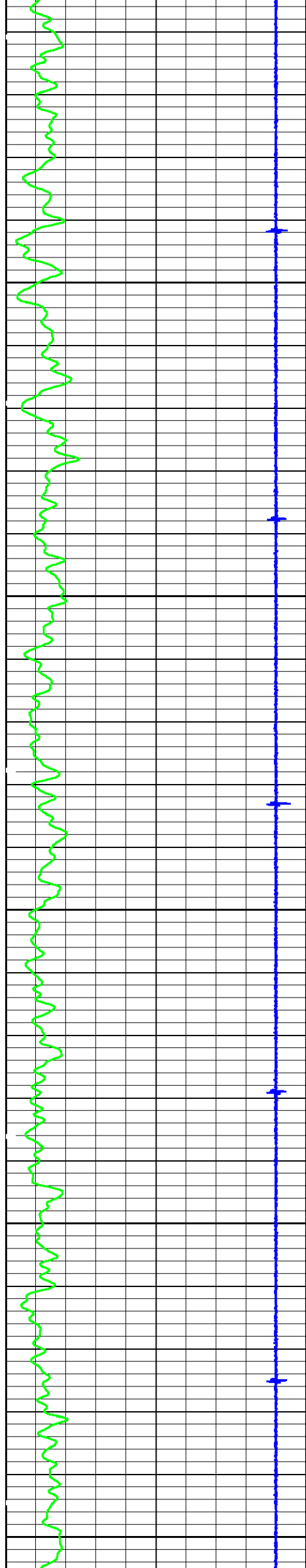




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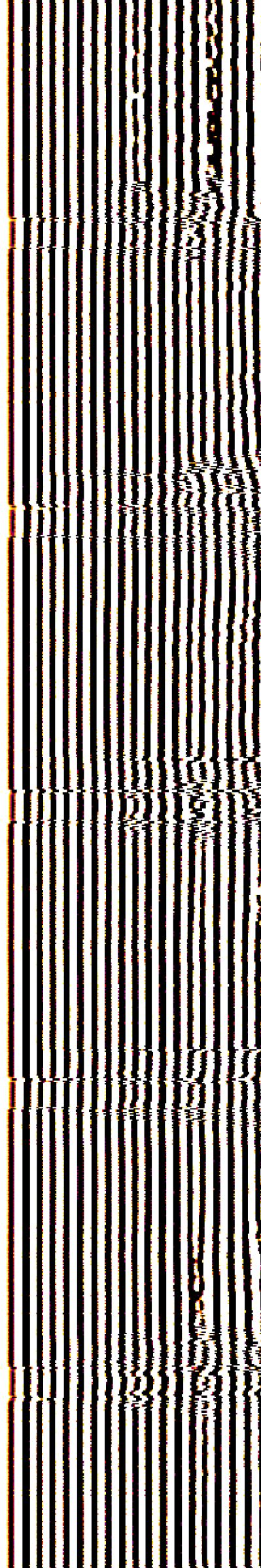
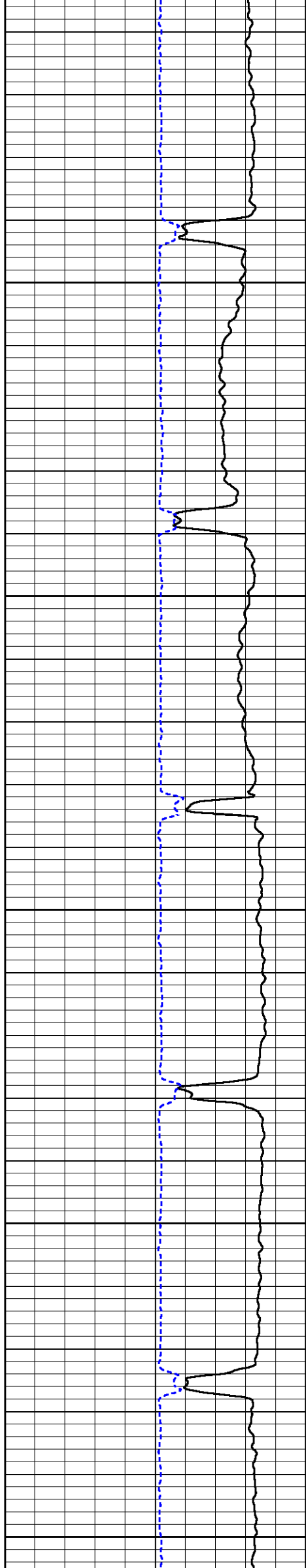


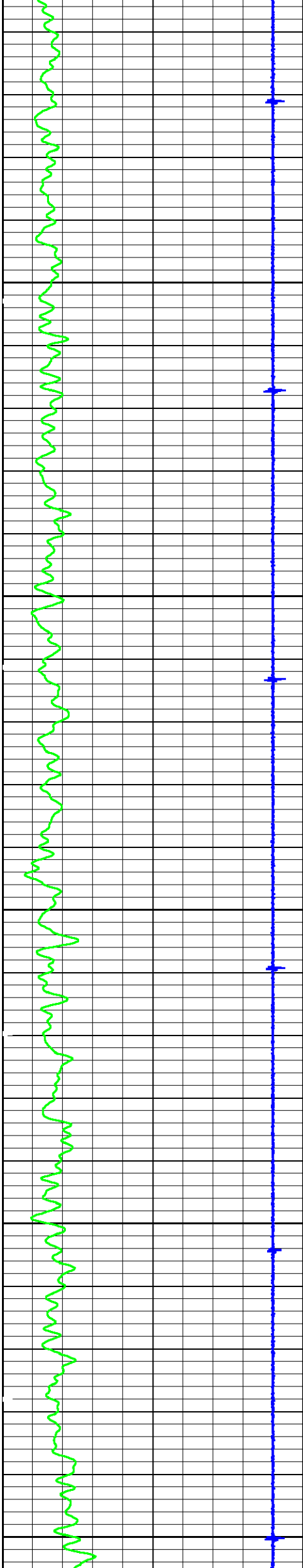


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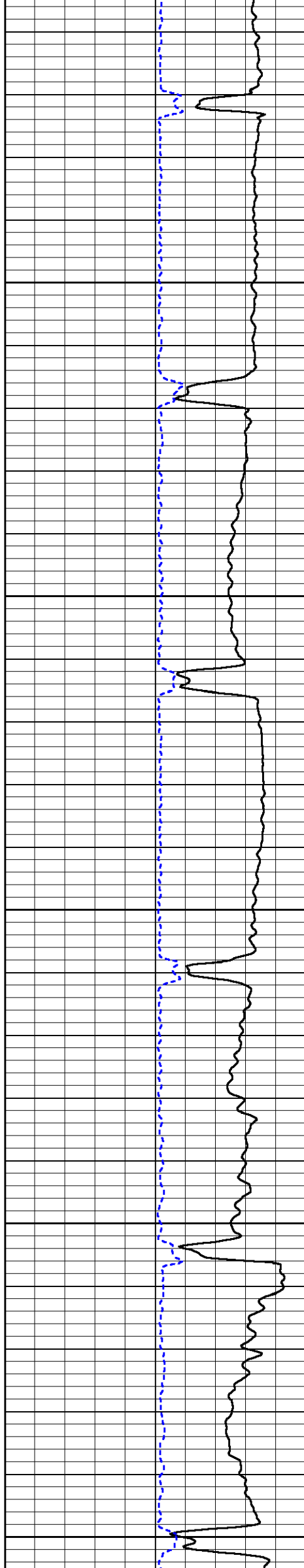
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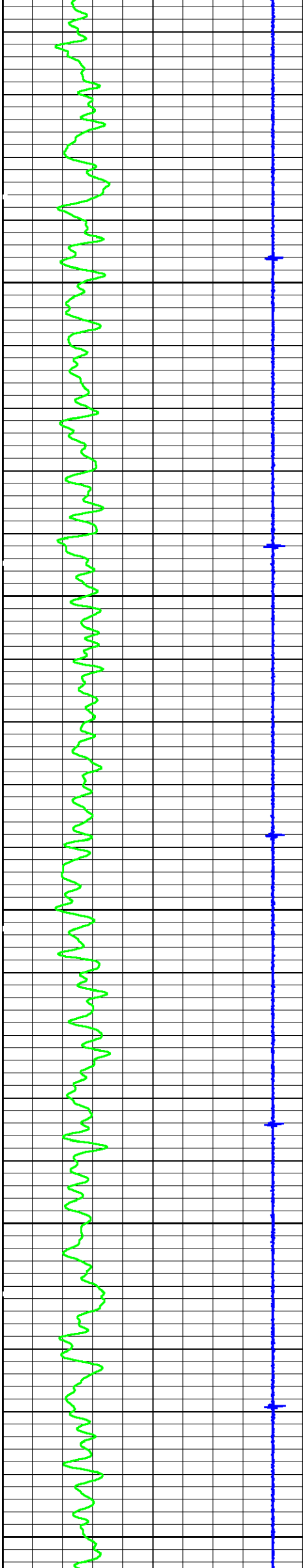




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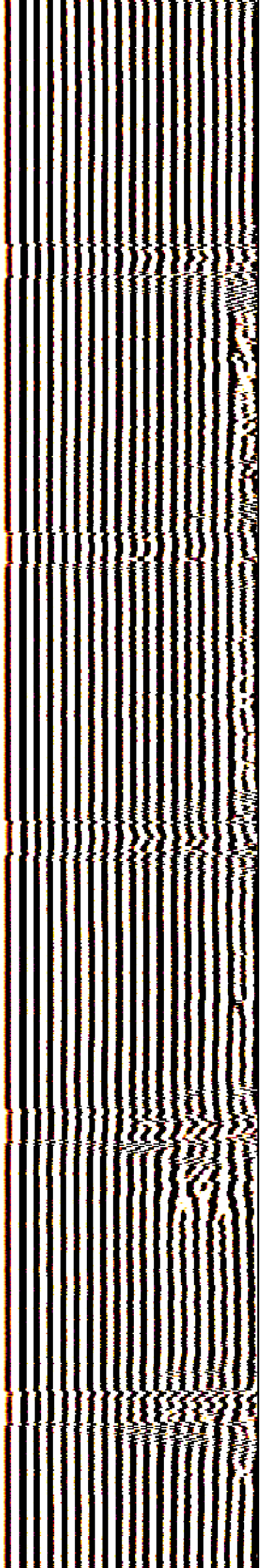
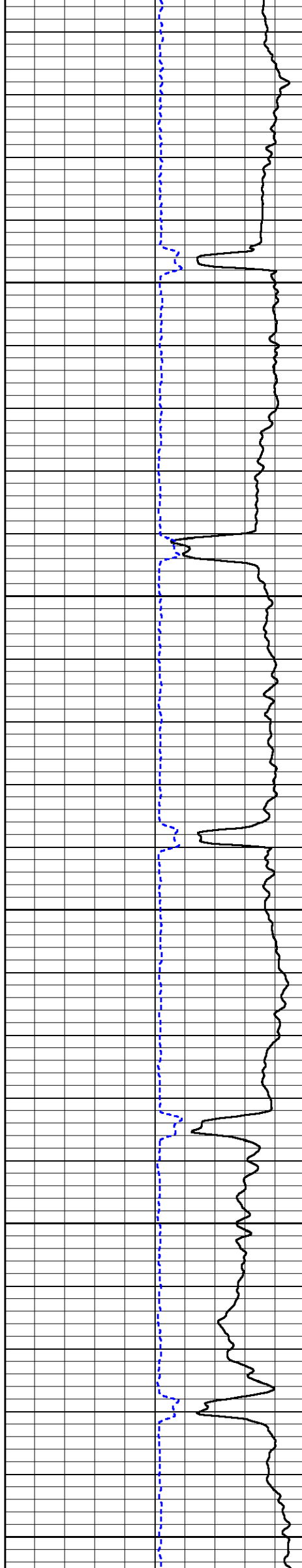


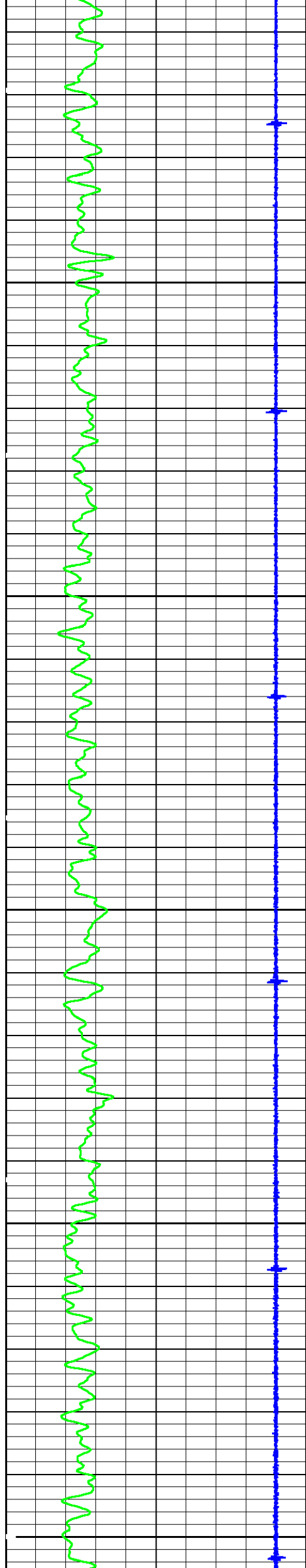


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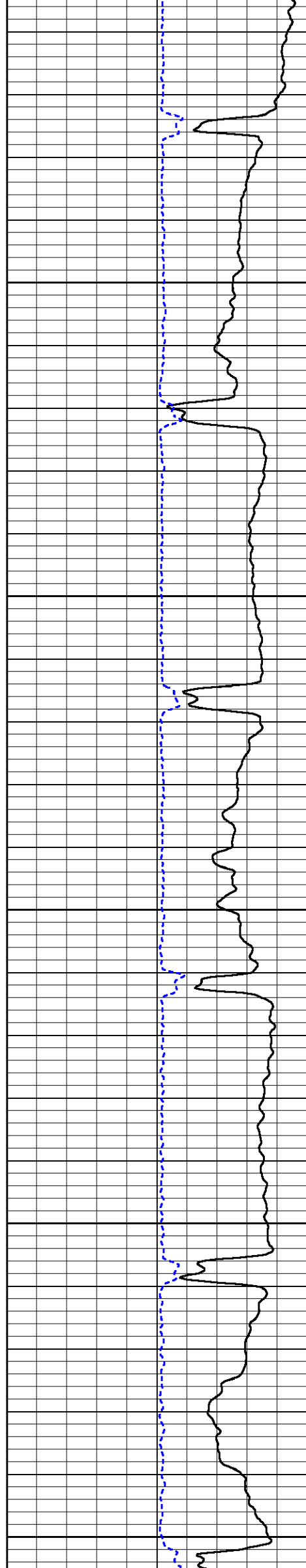
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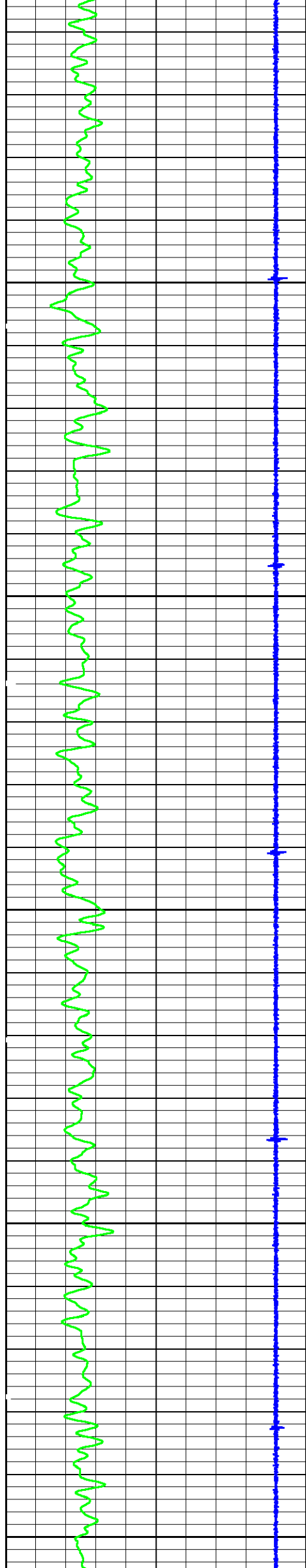




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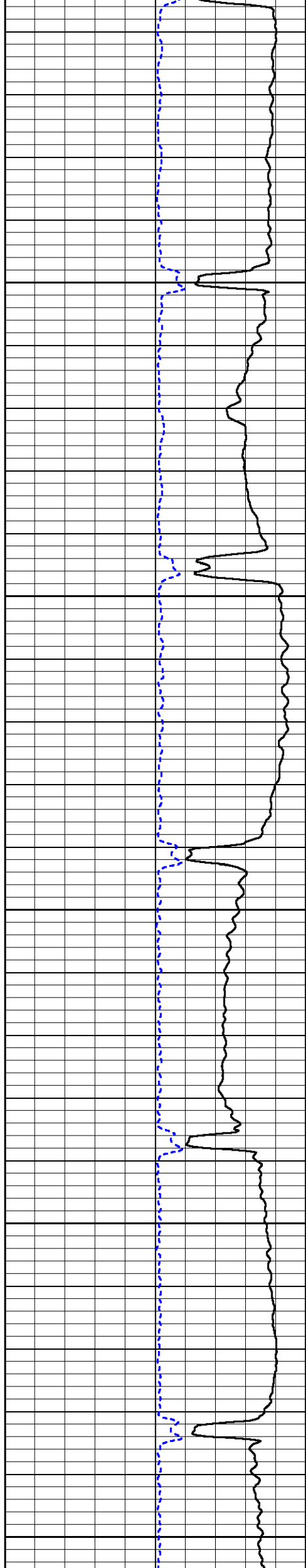


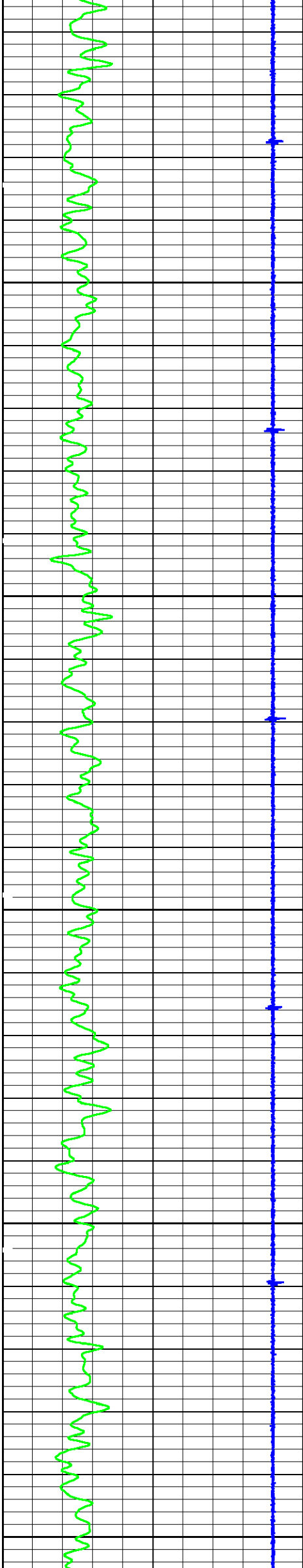


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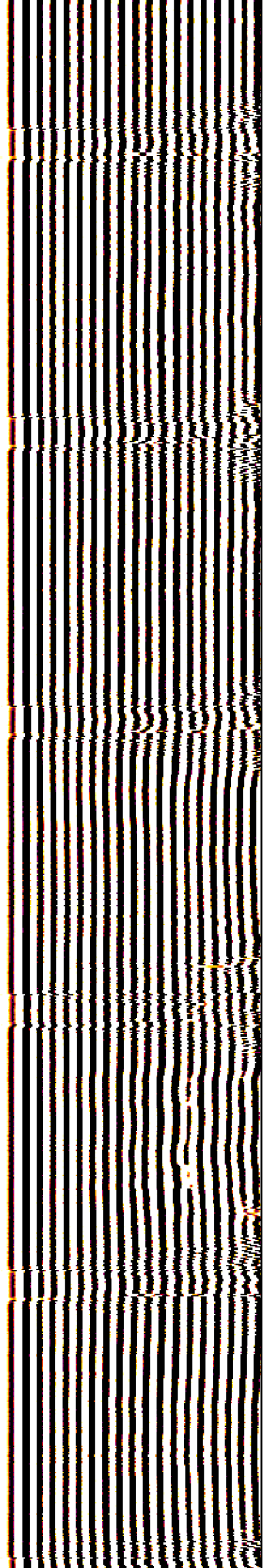
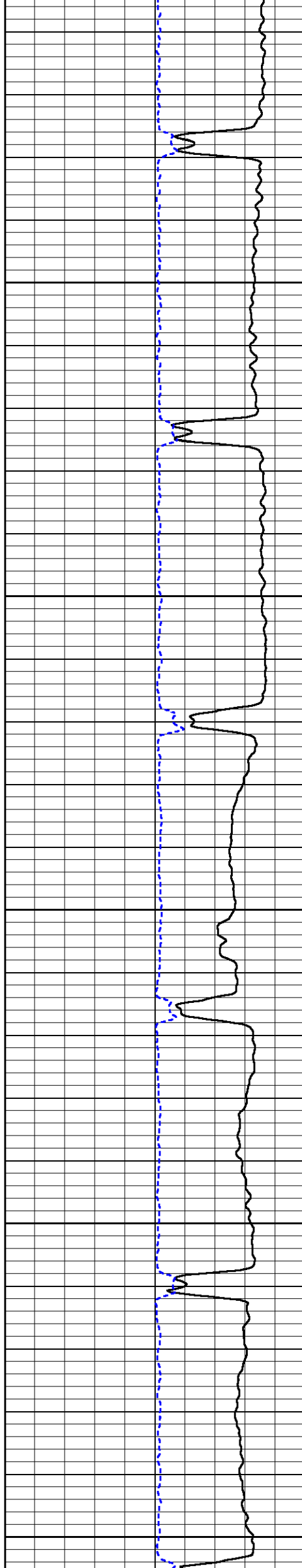
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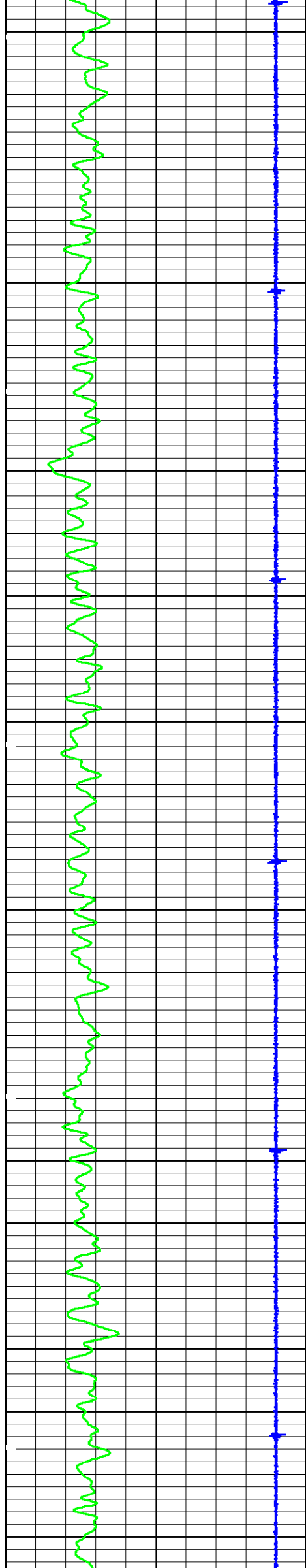




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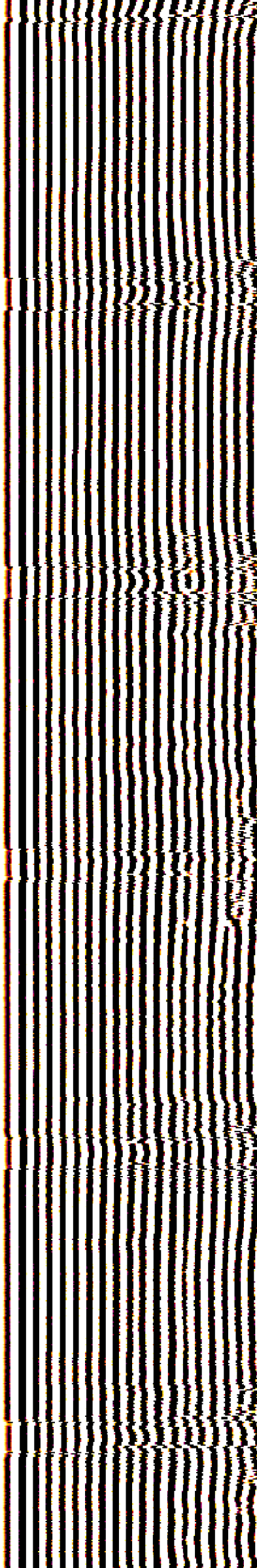
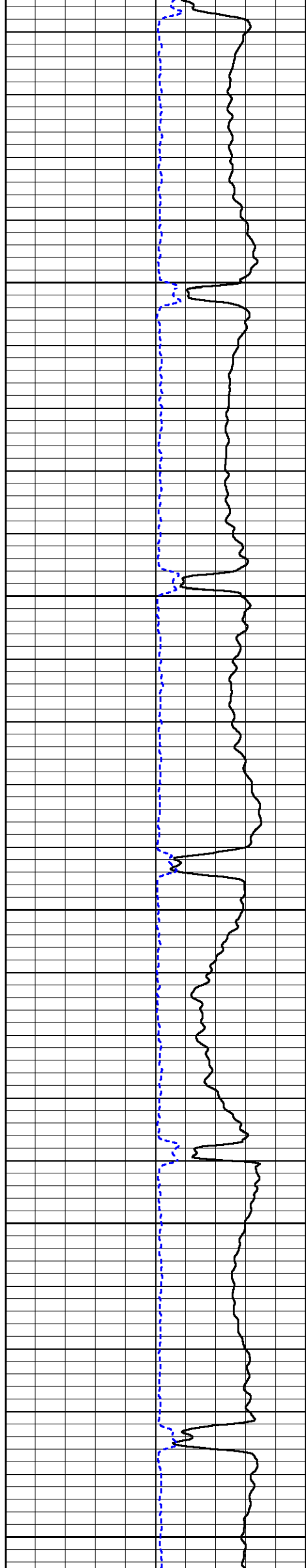


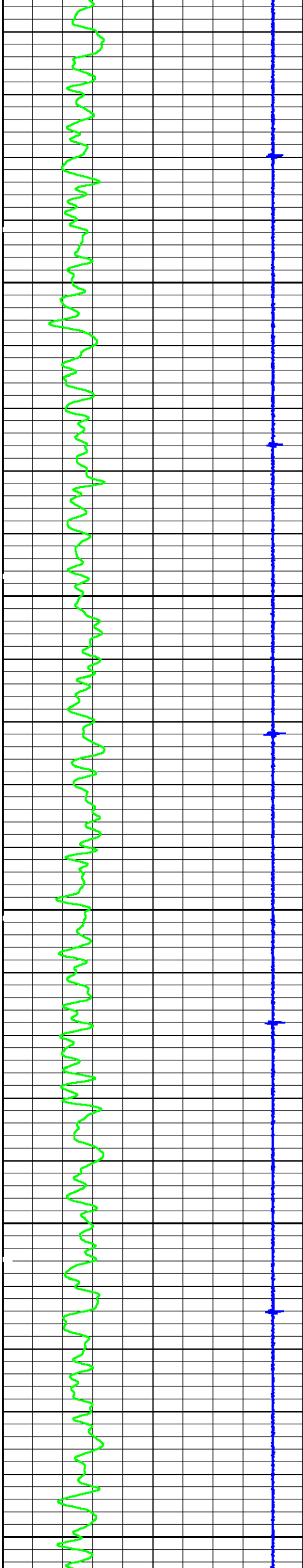


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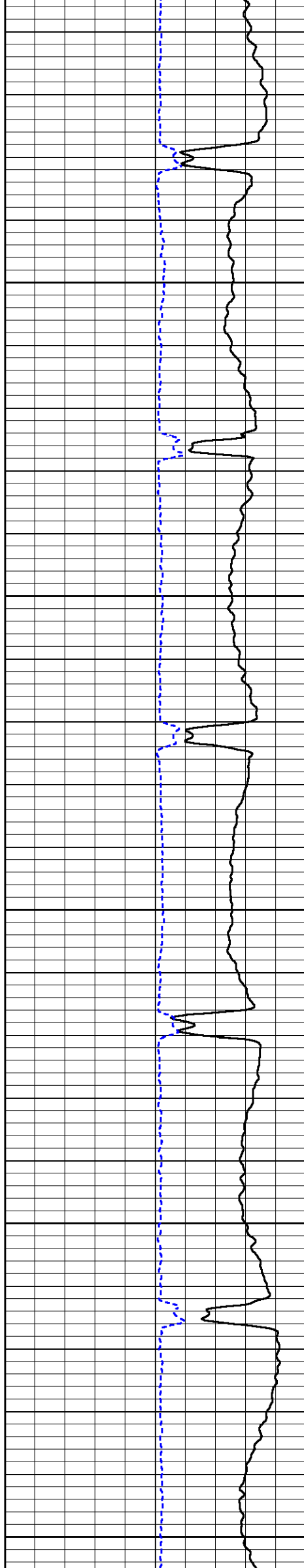
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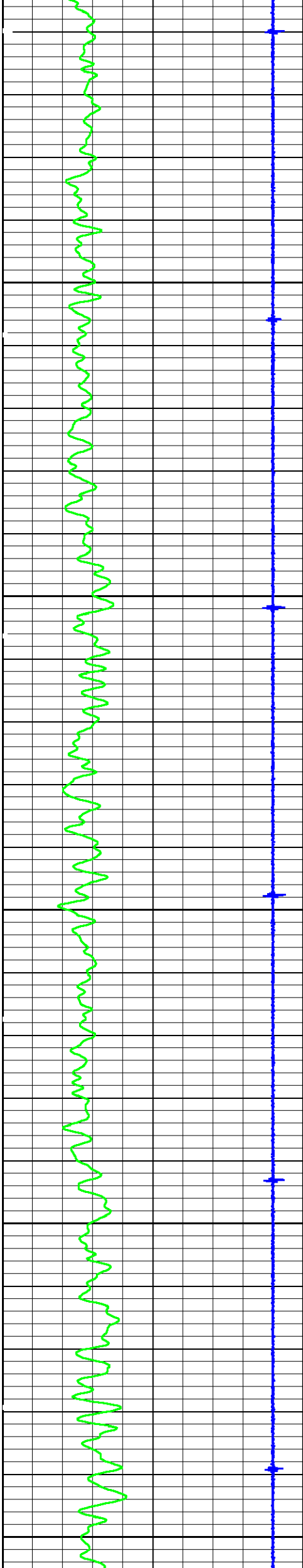




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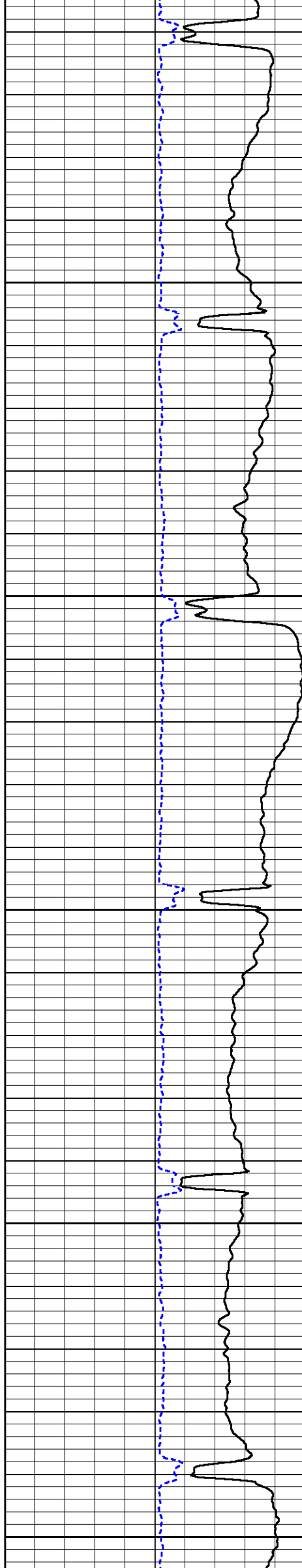


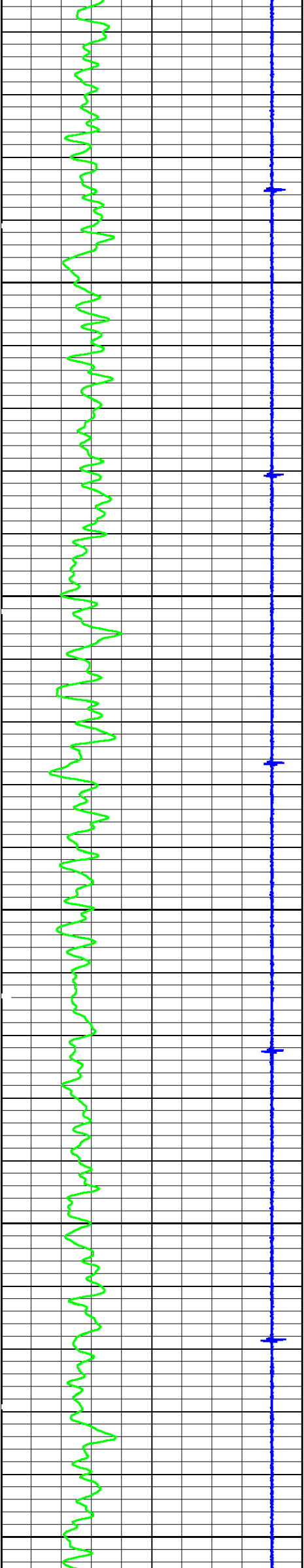


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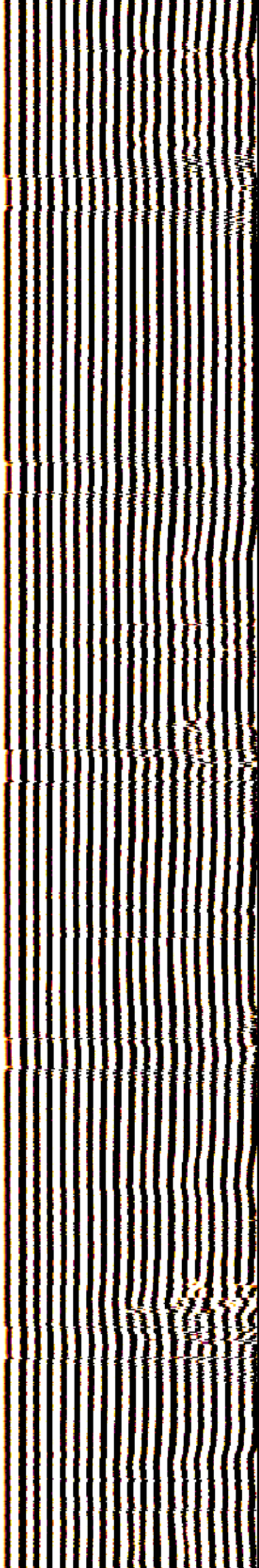
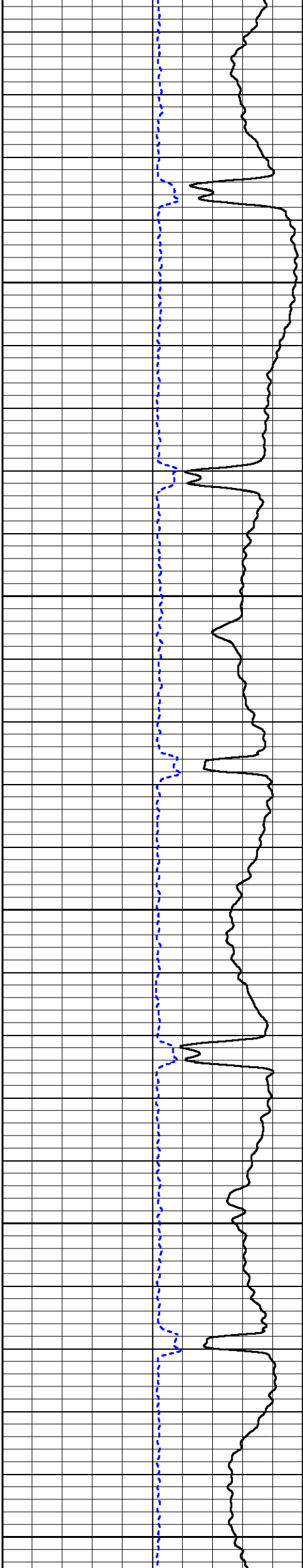
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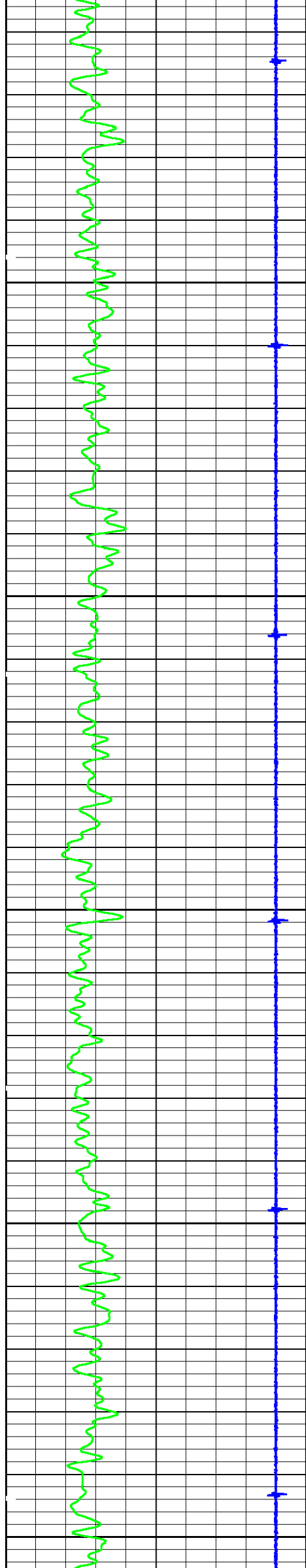




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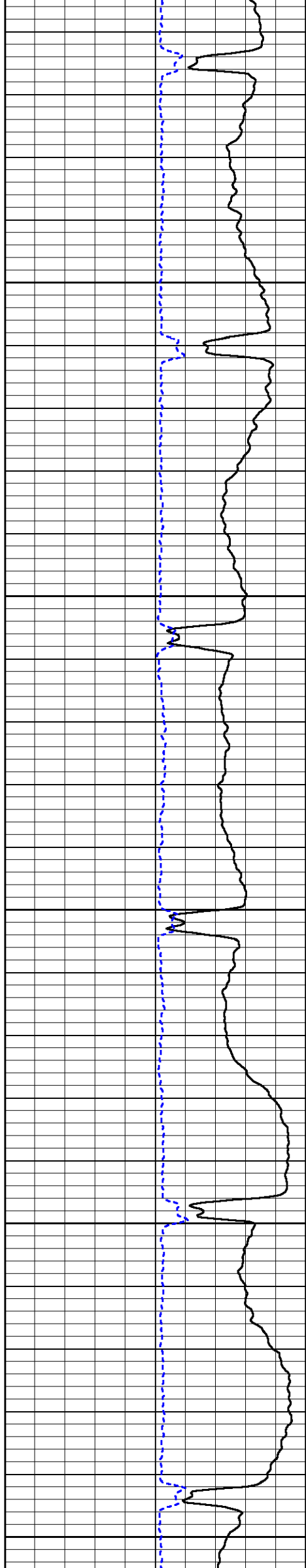


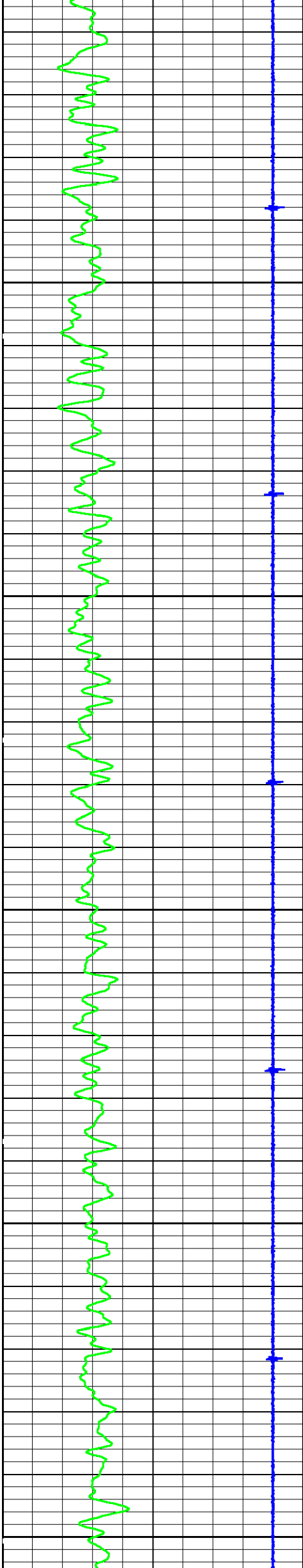


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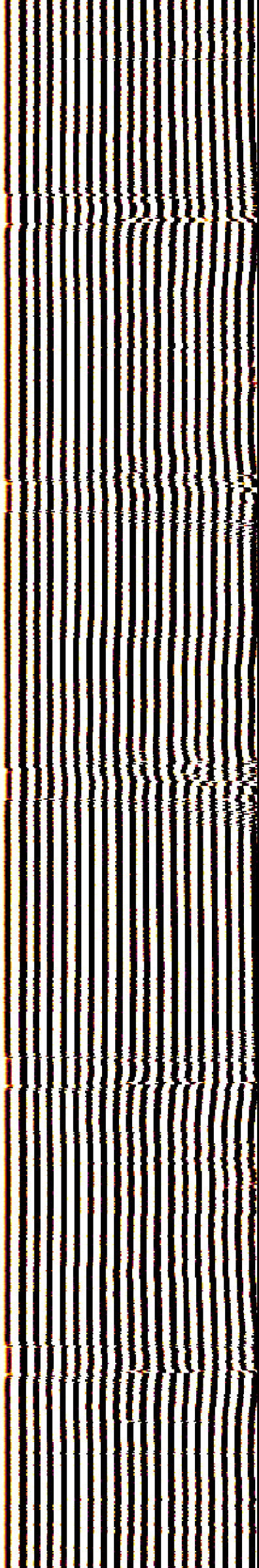
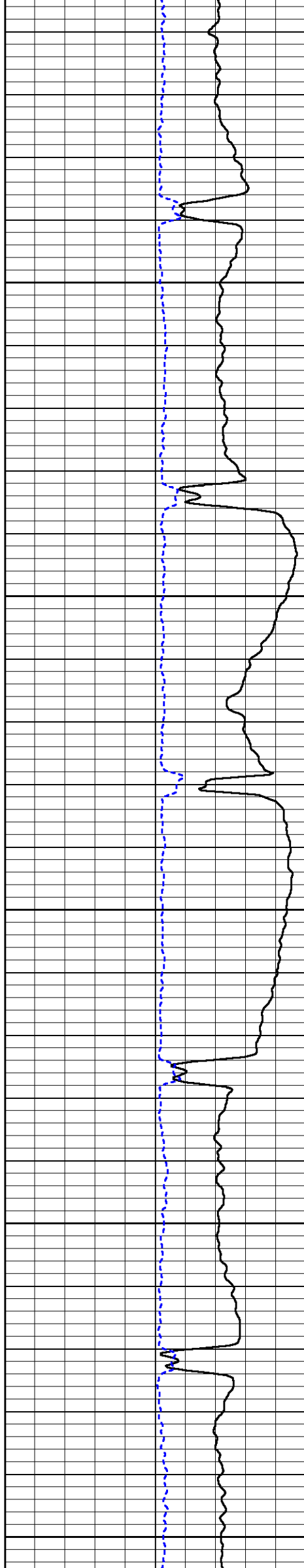
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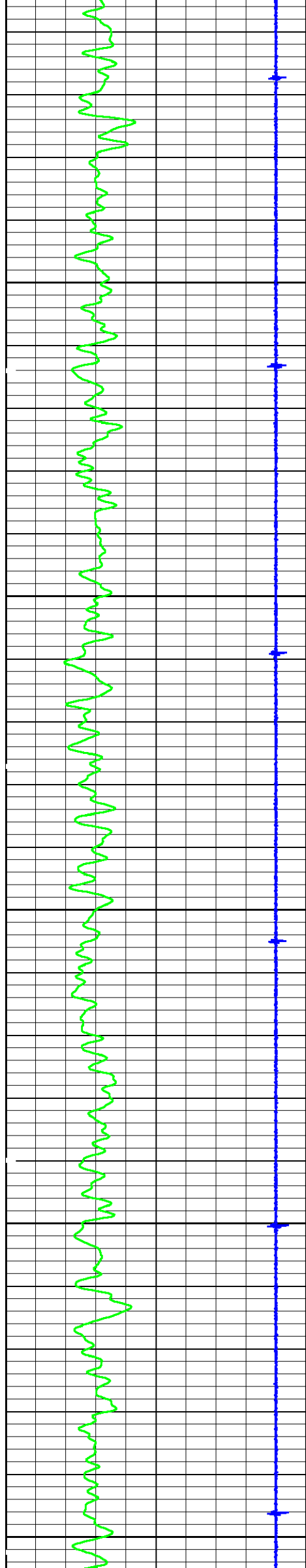




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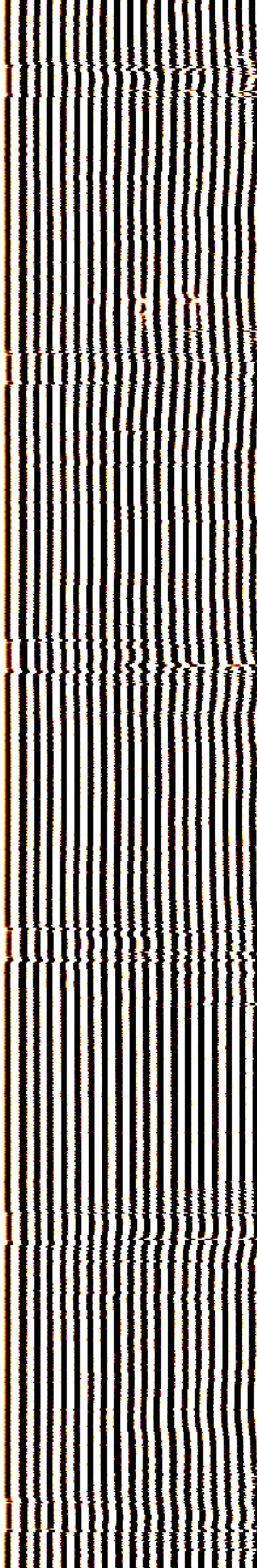
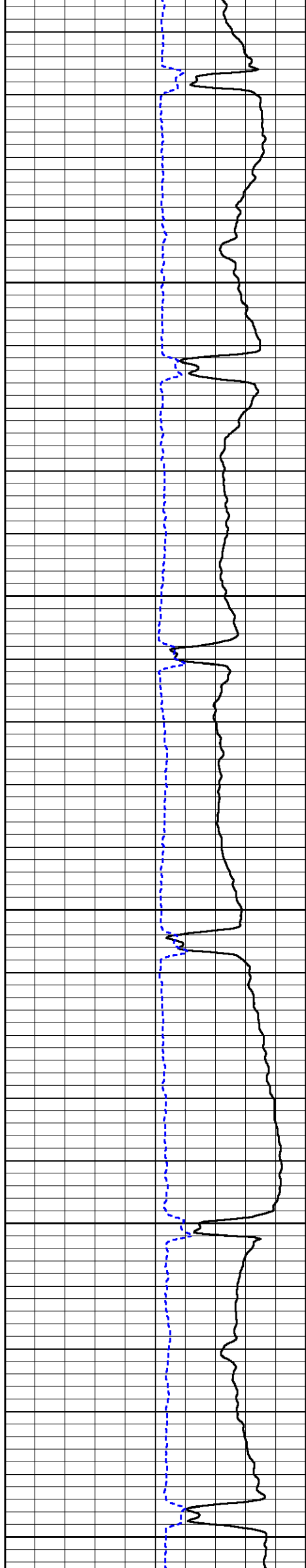


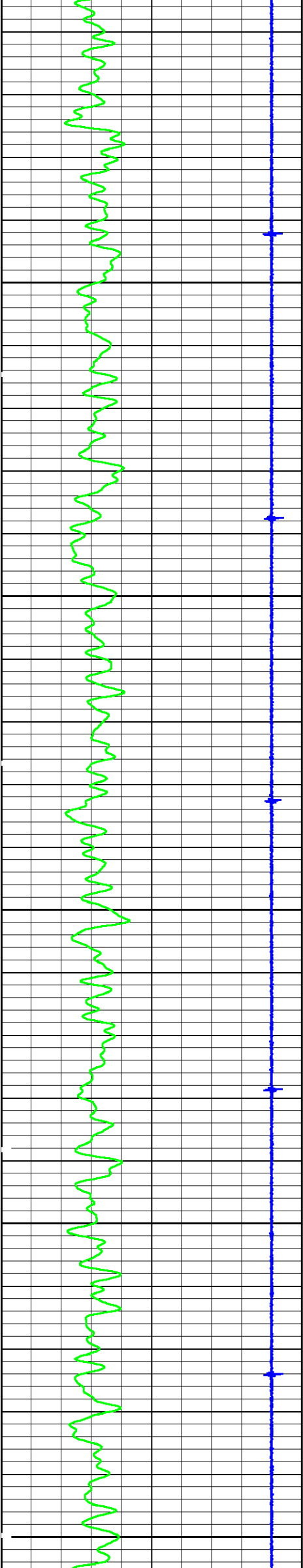


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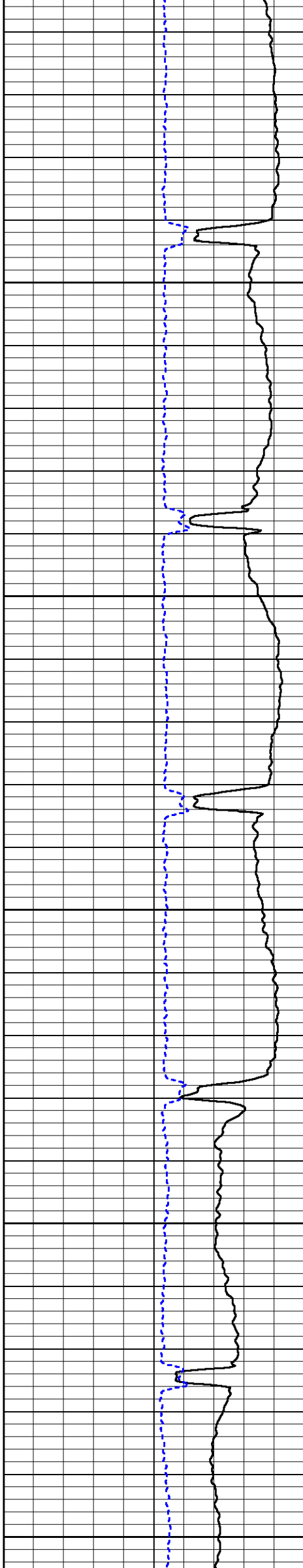
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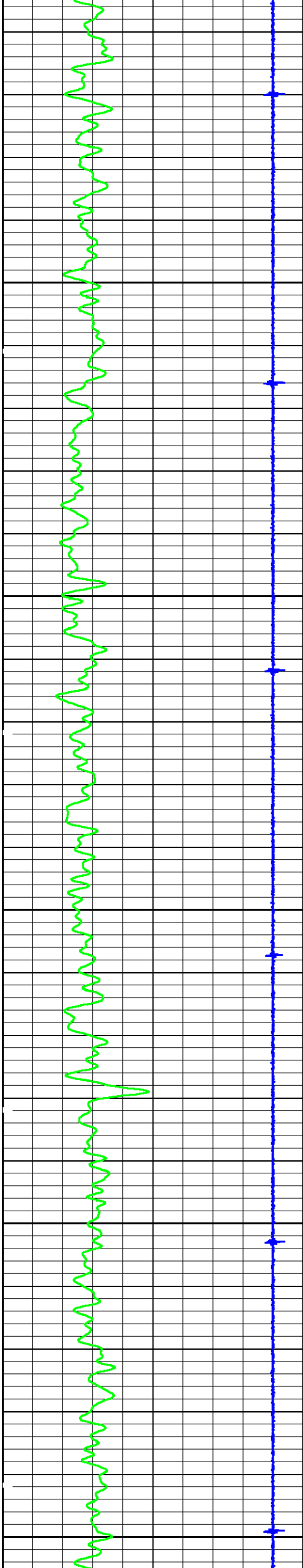




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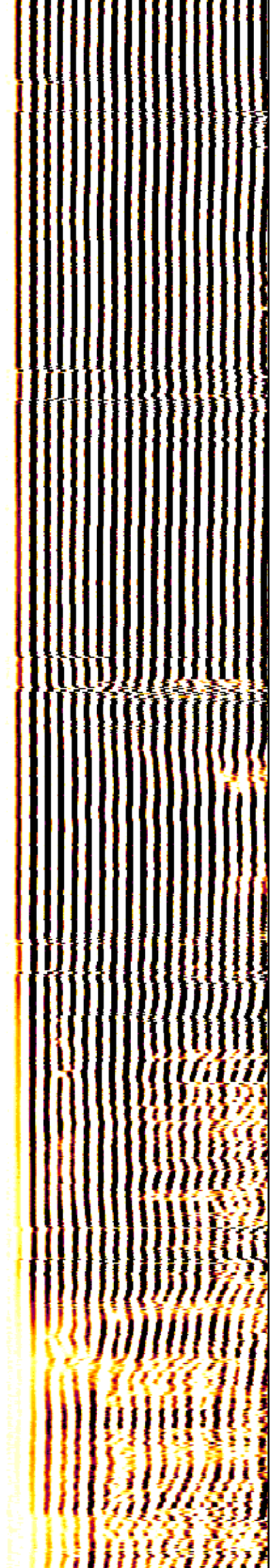
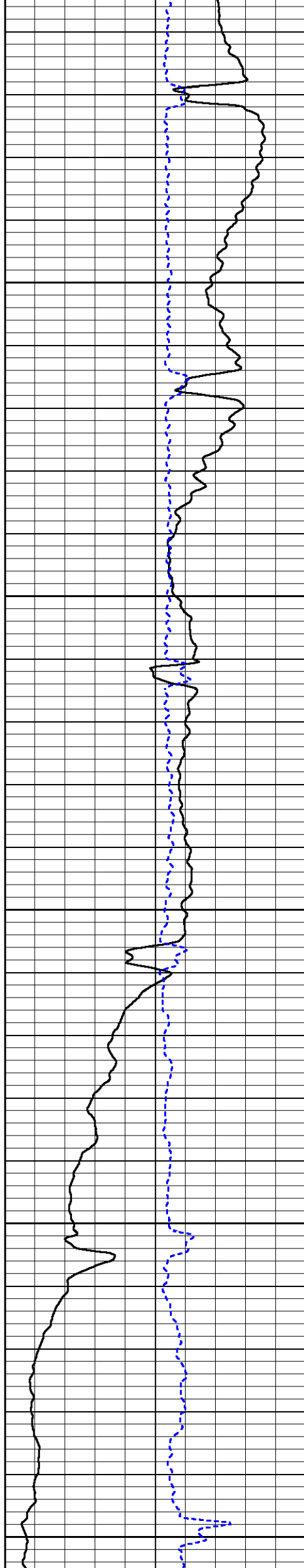


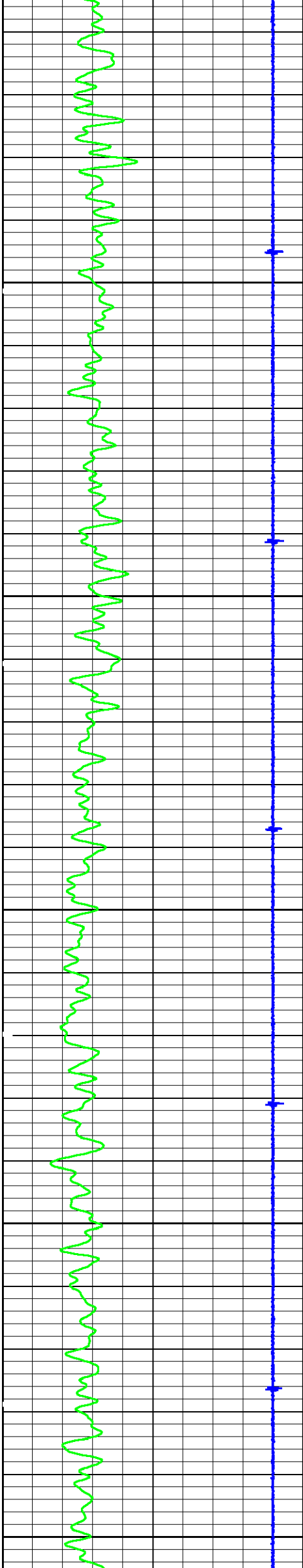


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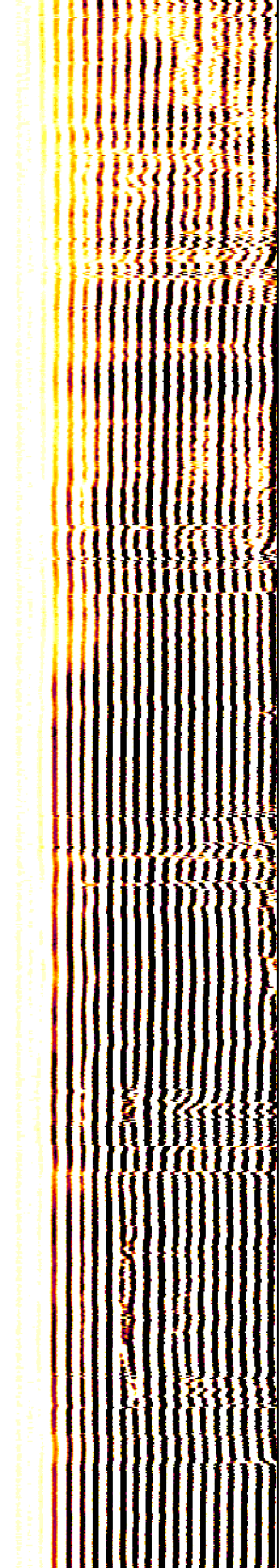
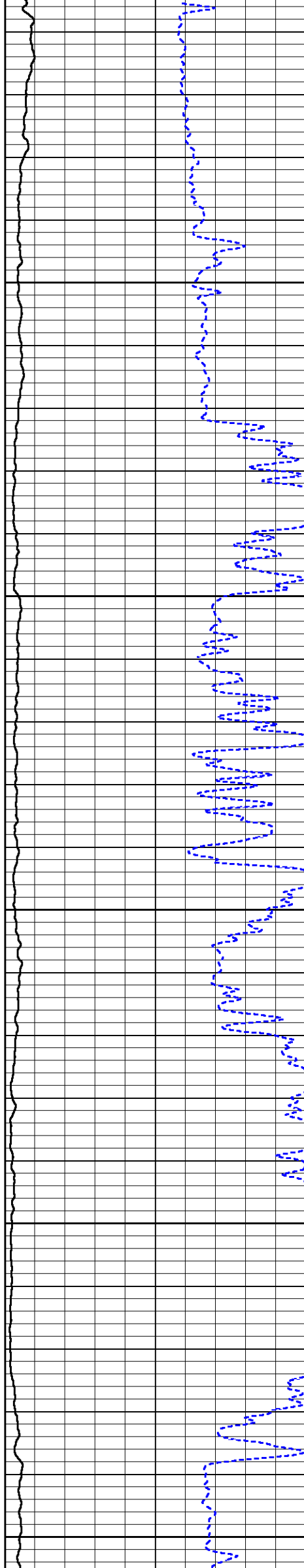
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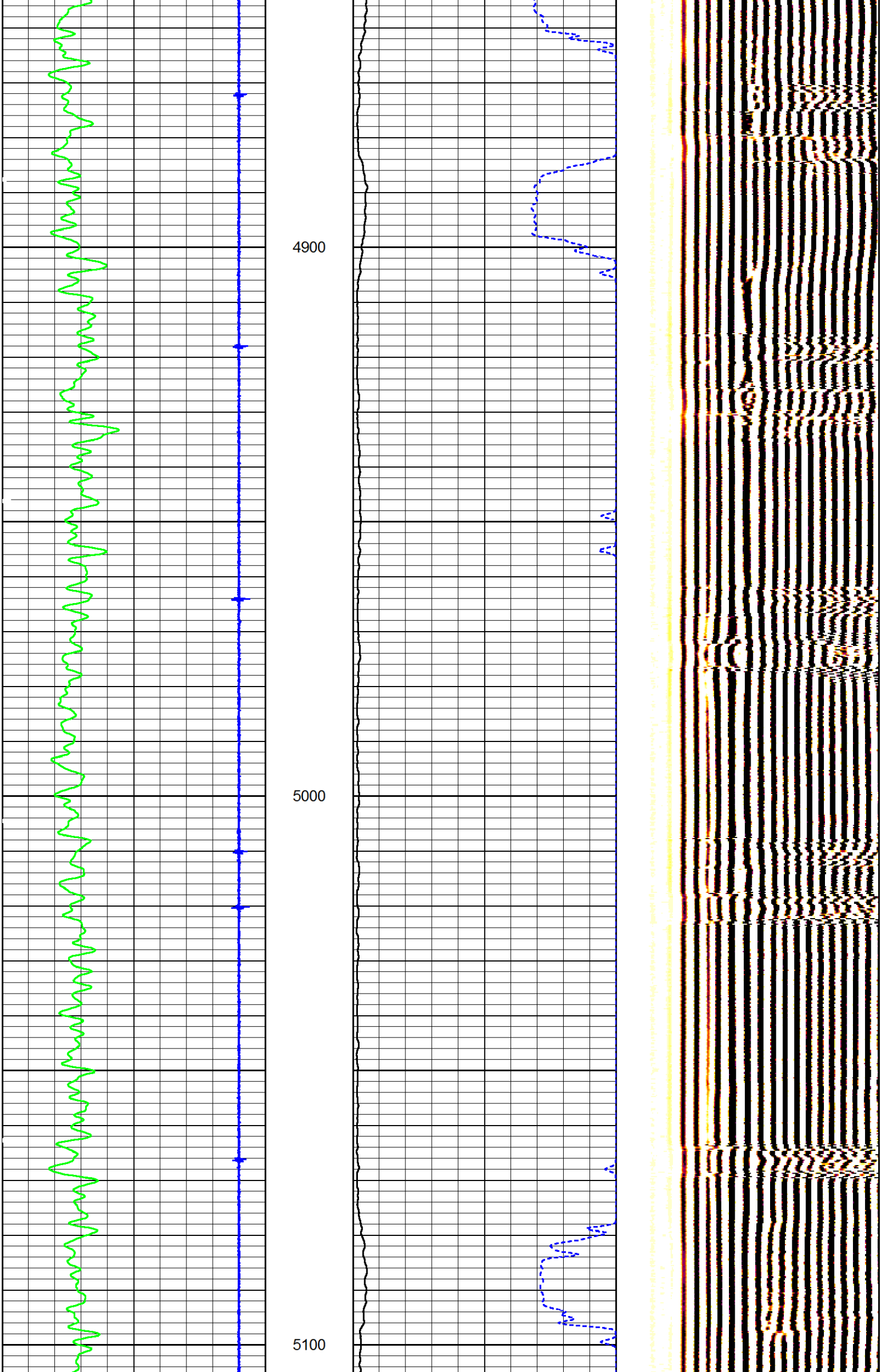


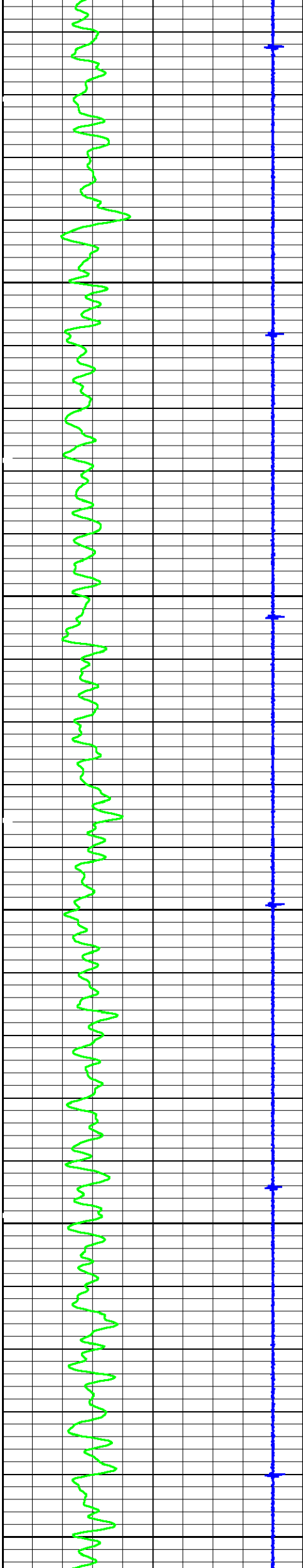


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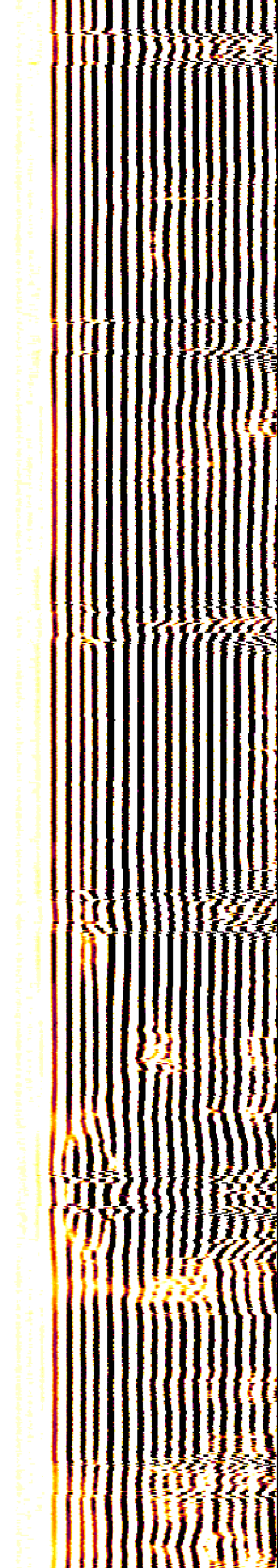
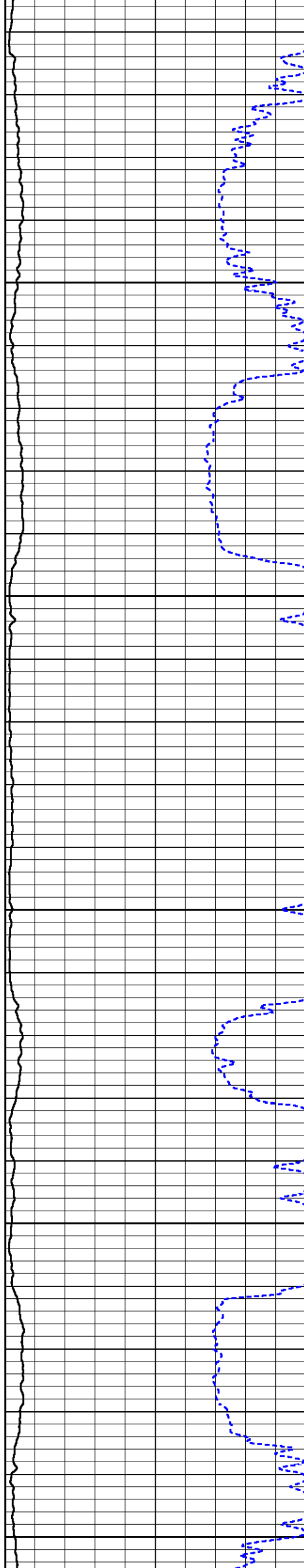


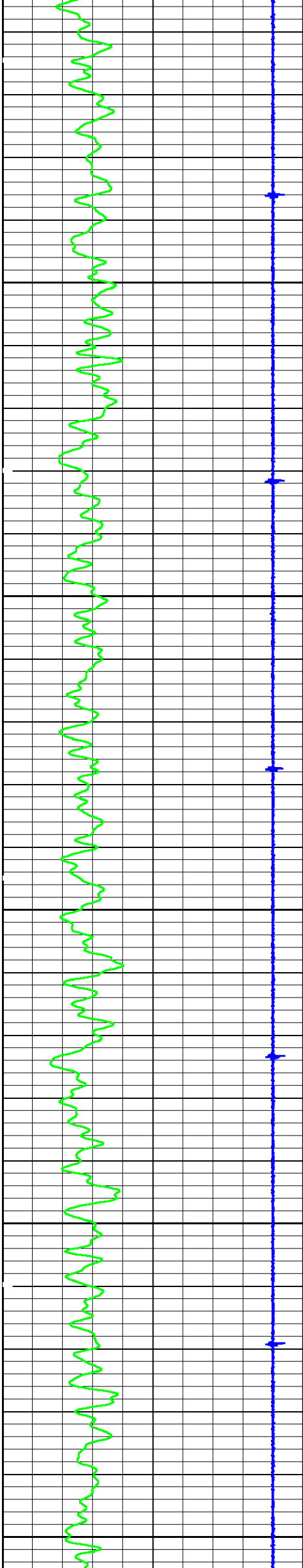




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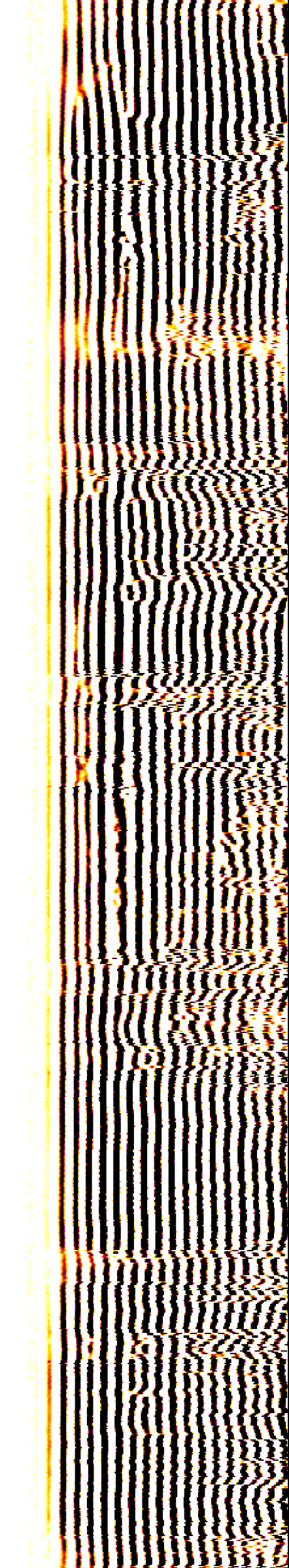
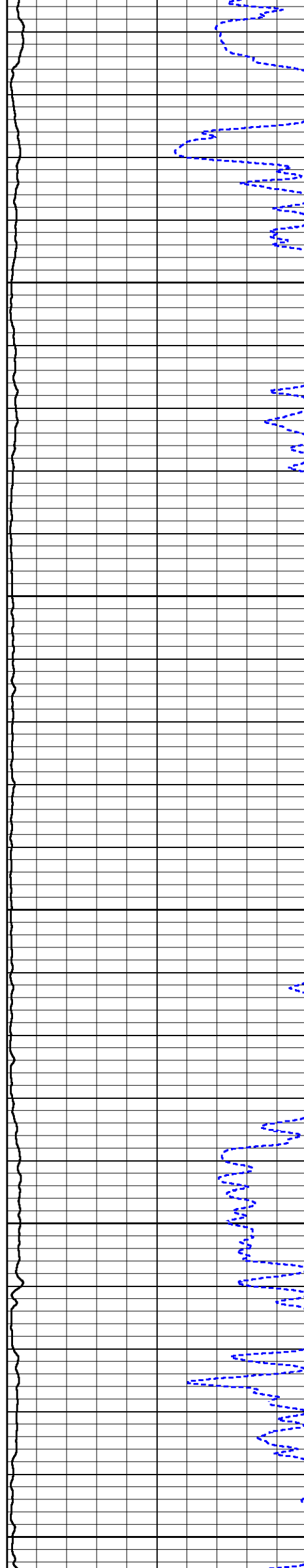


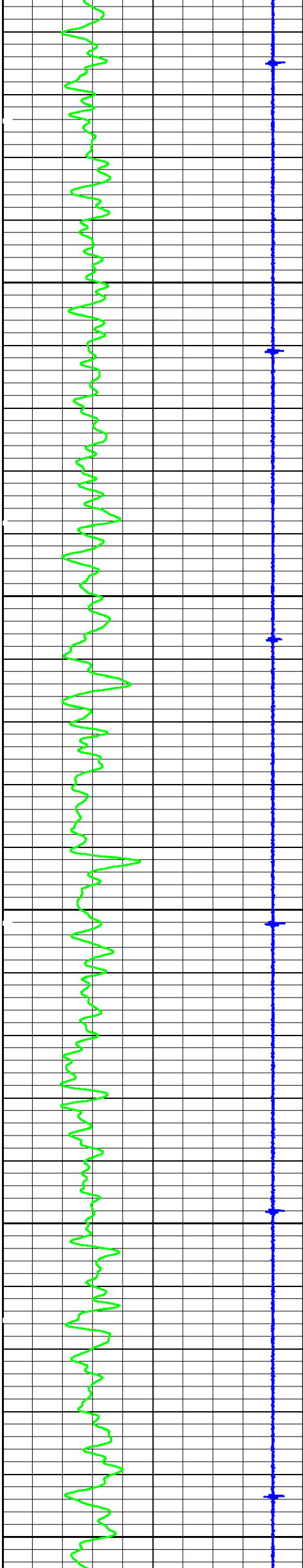


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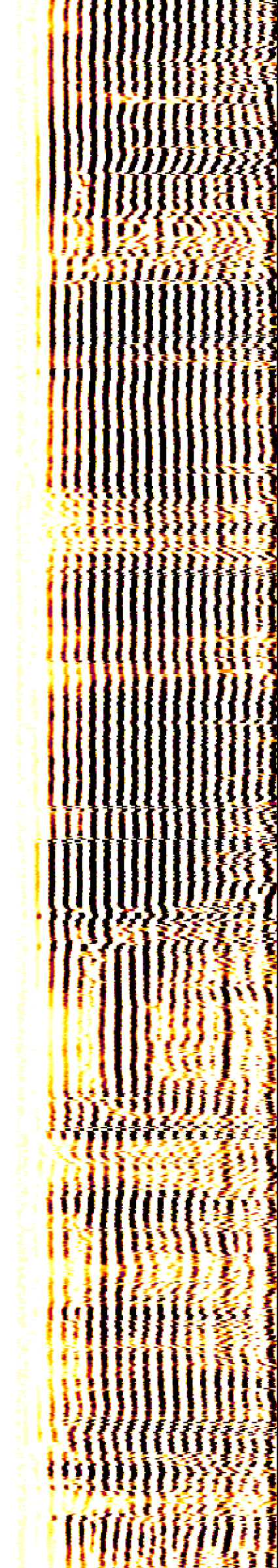
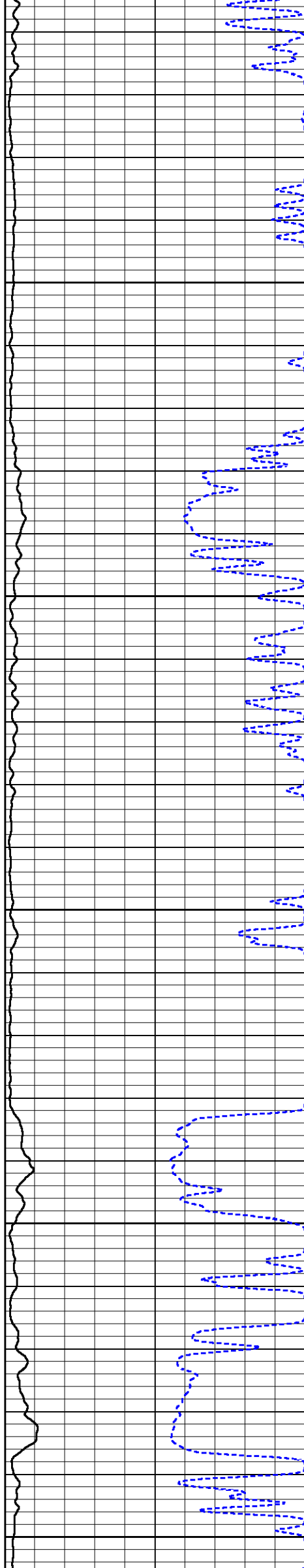
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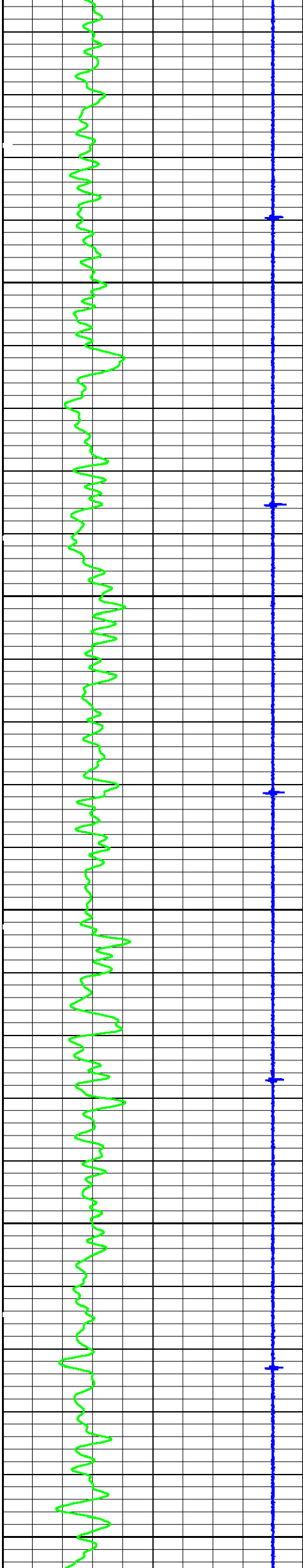




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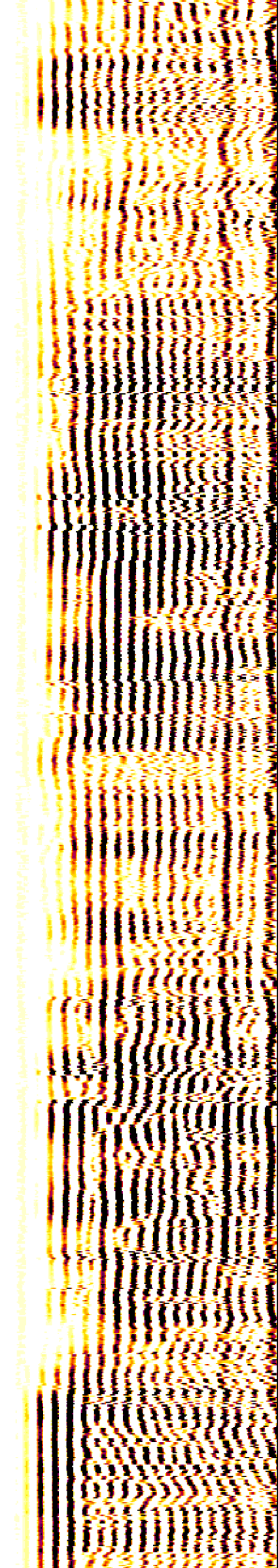
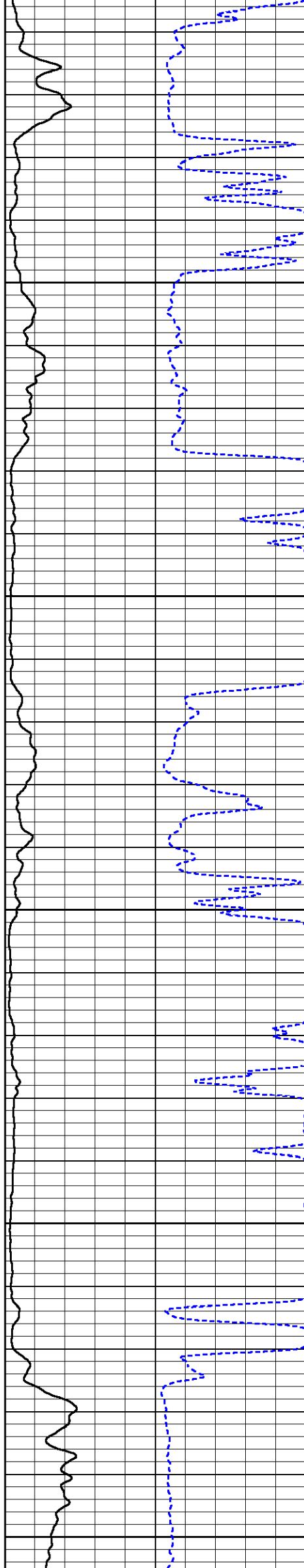


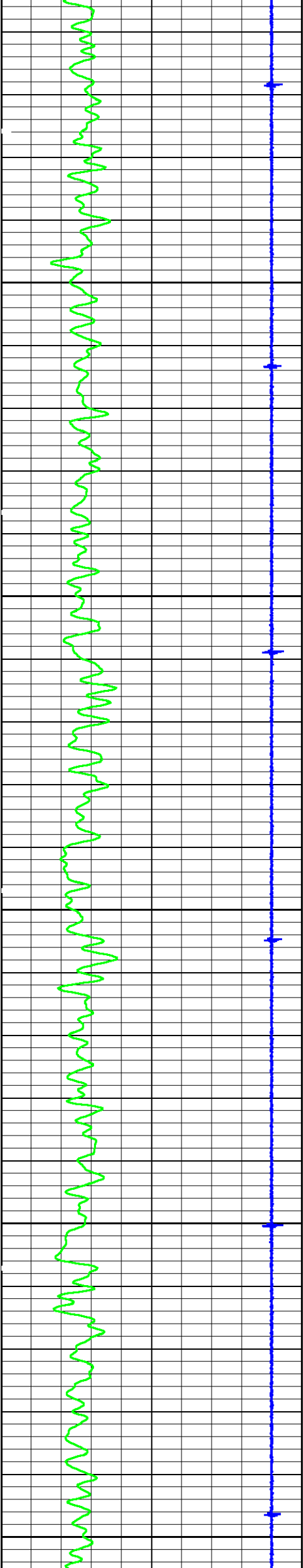


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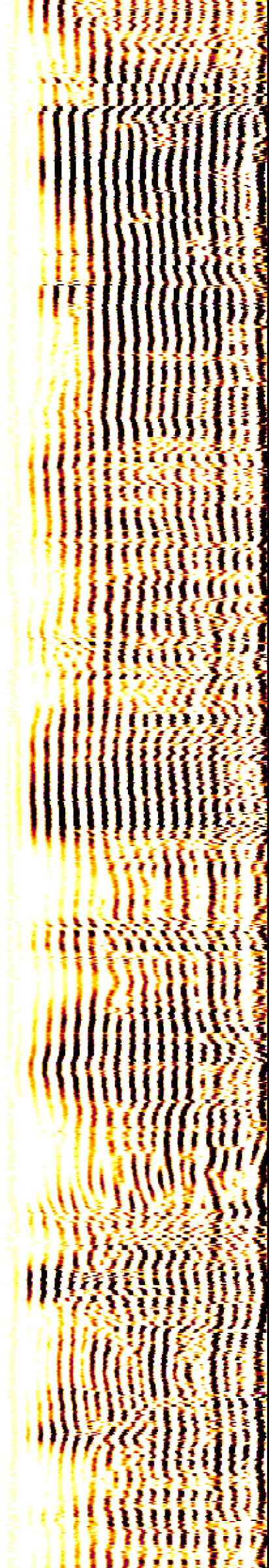
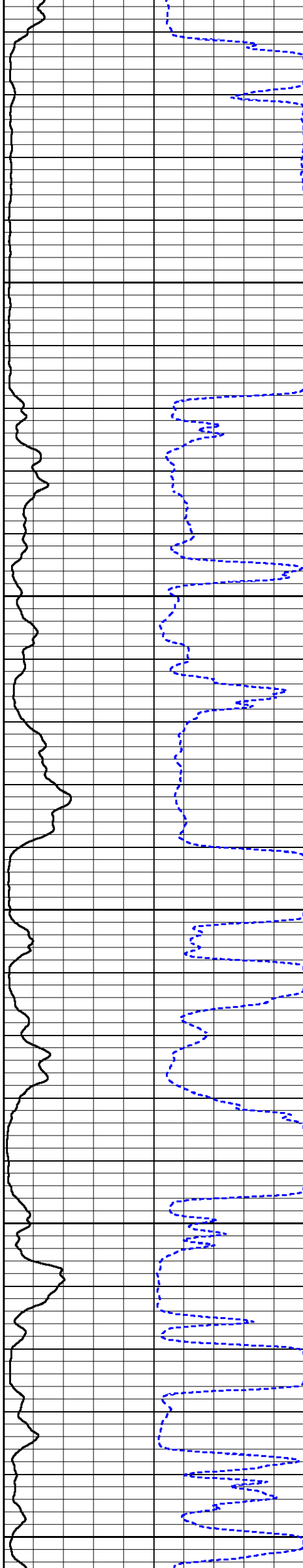
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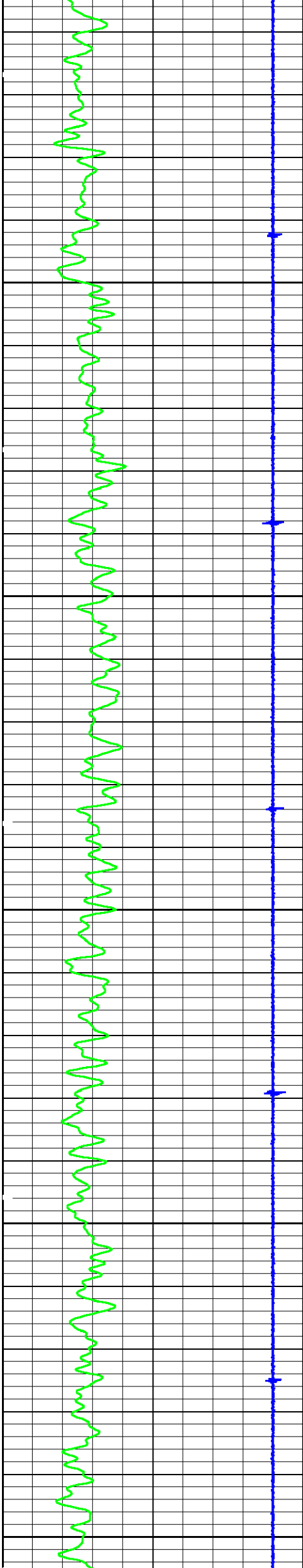




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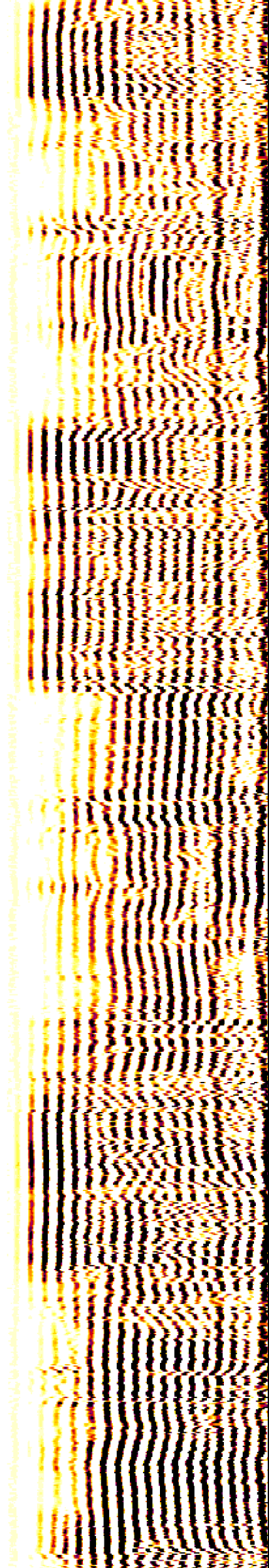
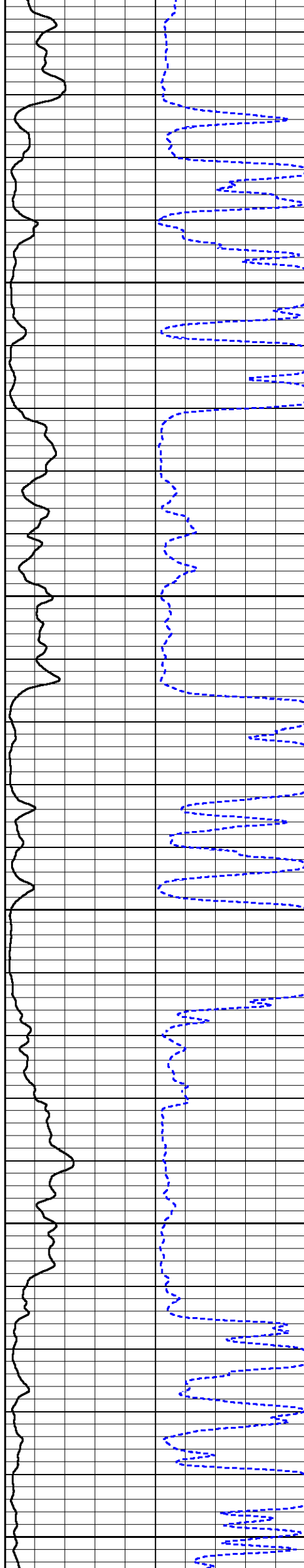


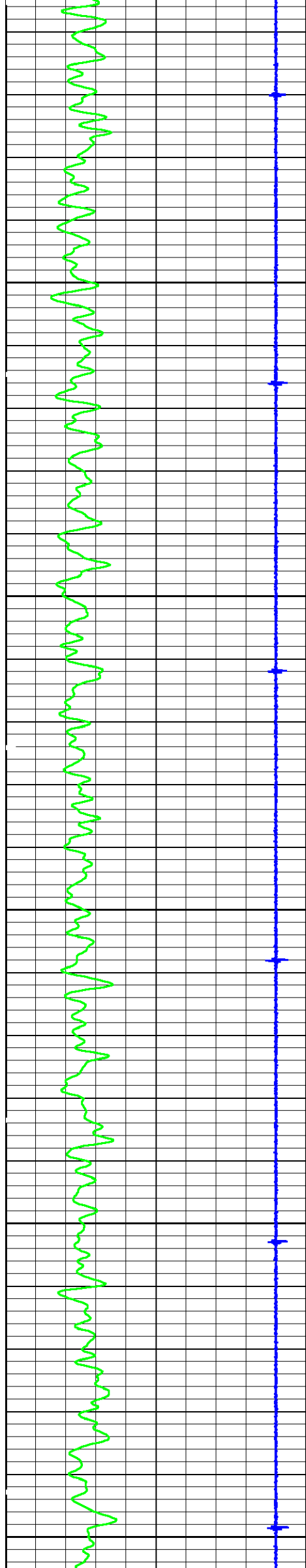


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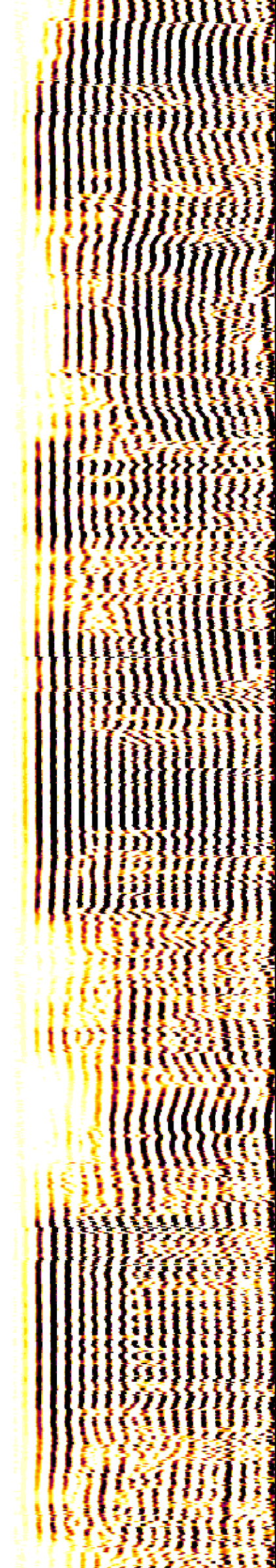
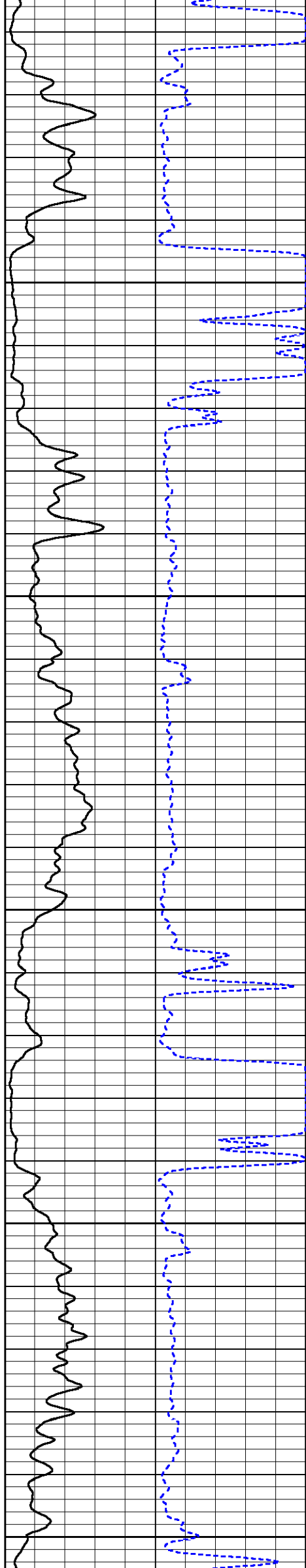
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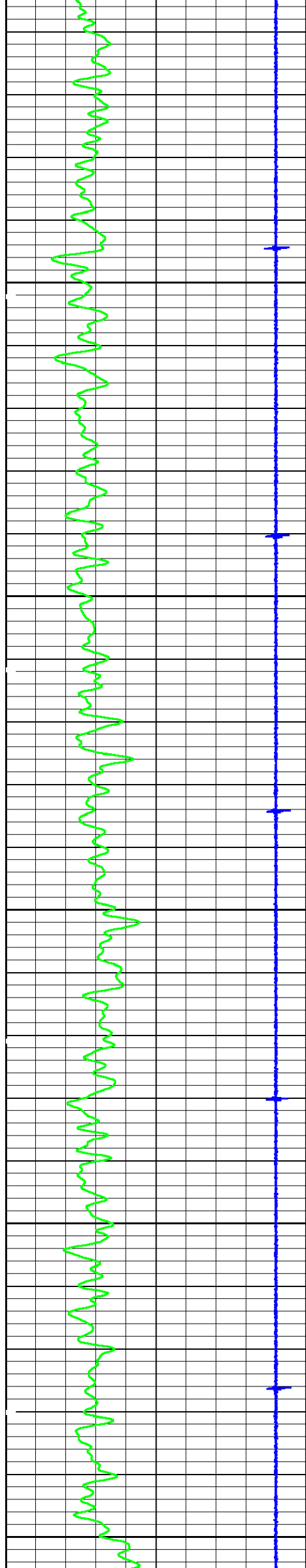




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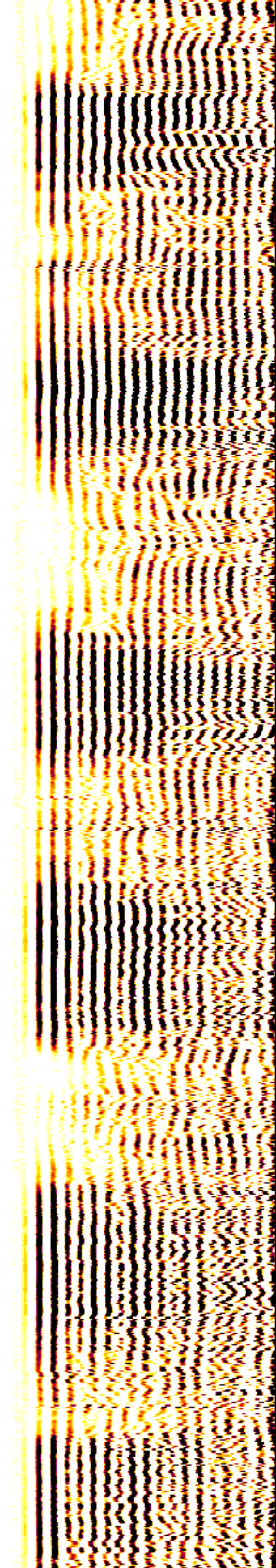
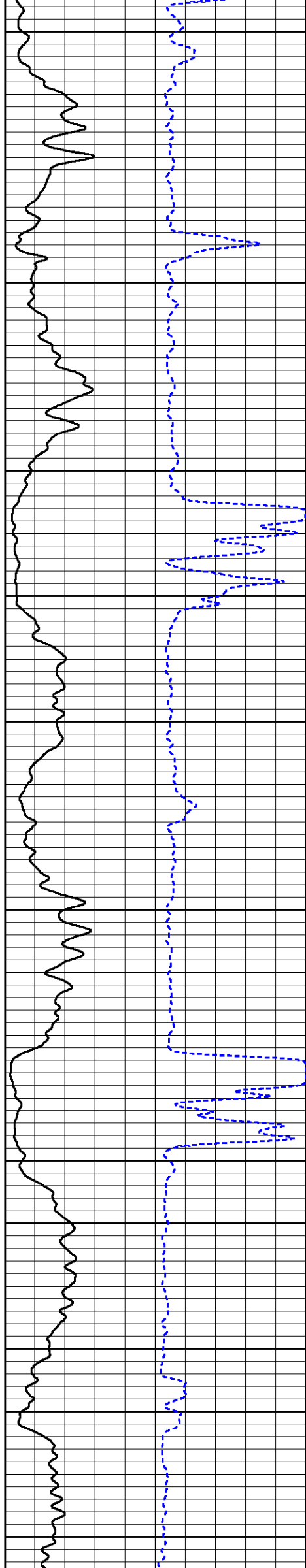


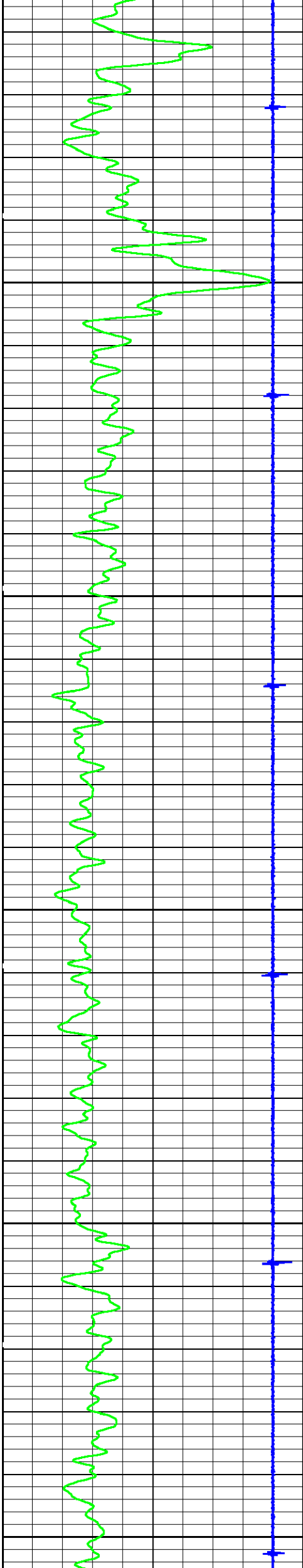


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7000

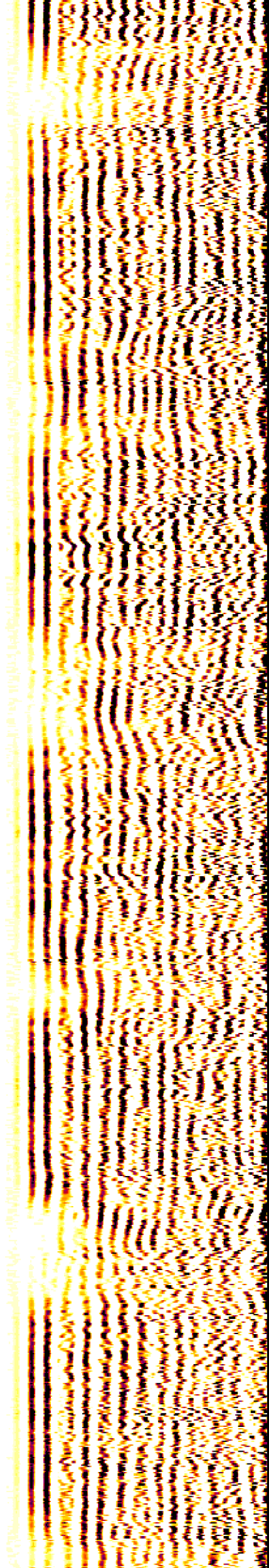
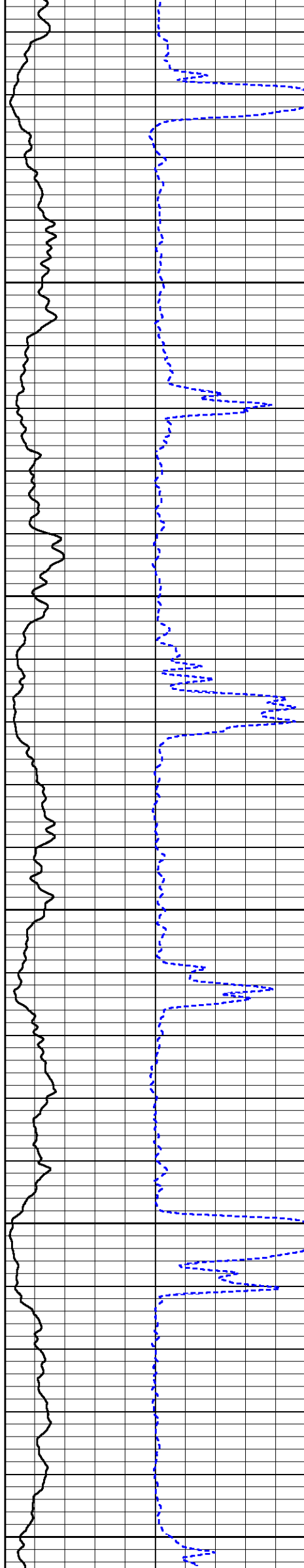
7100

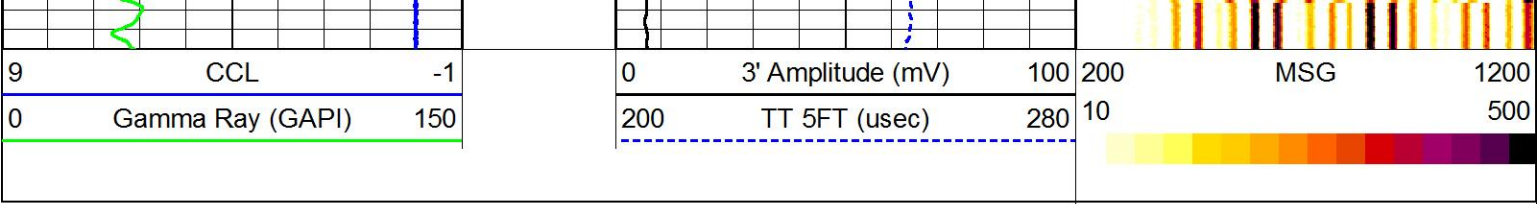




7200

7300





MAIN PASS

5" = 100'

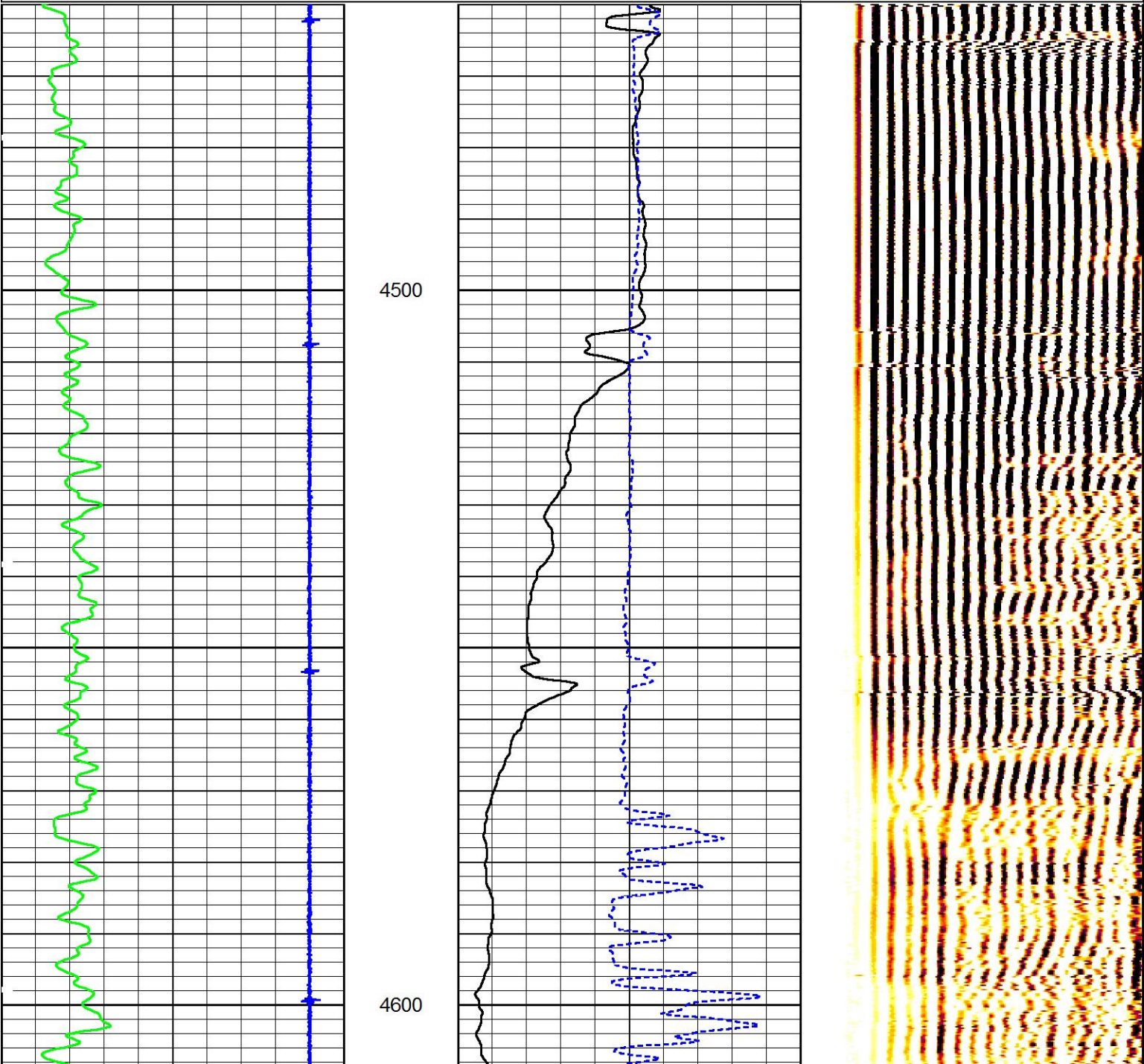
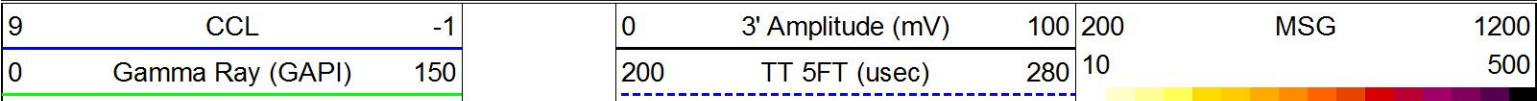
HALLIBURTON

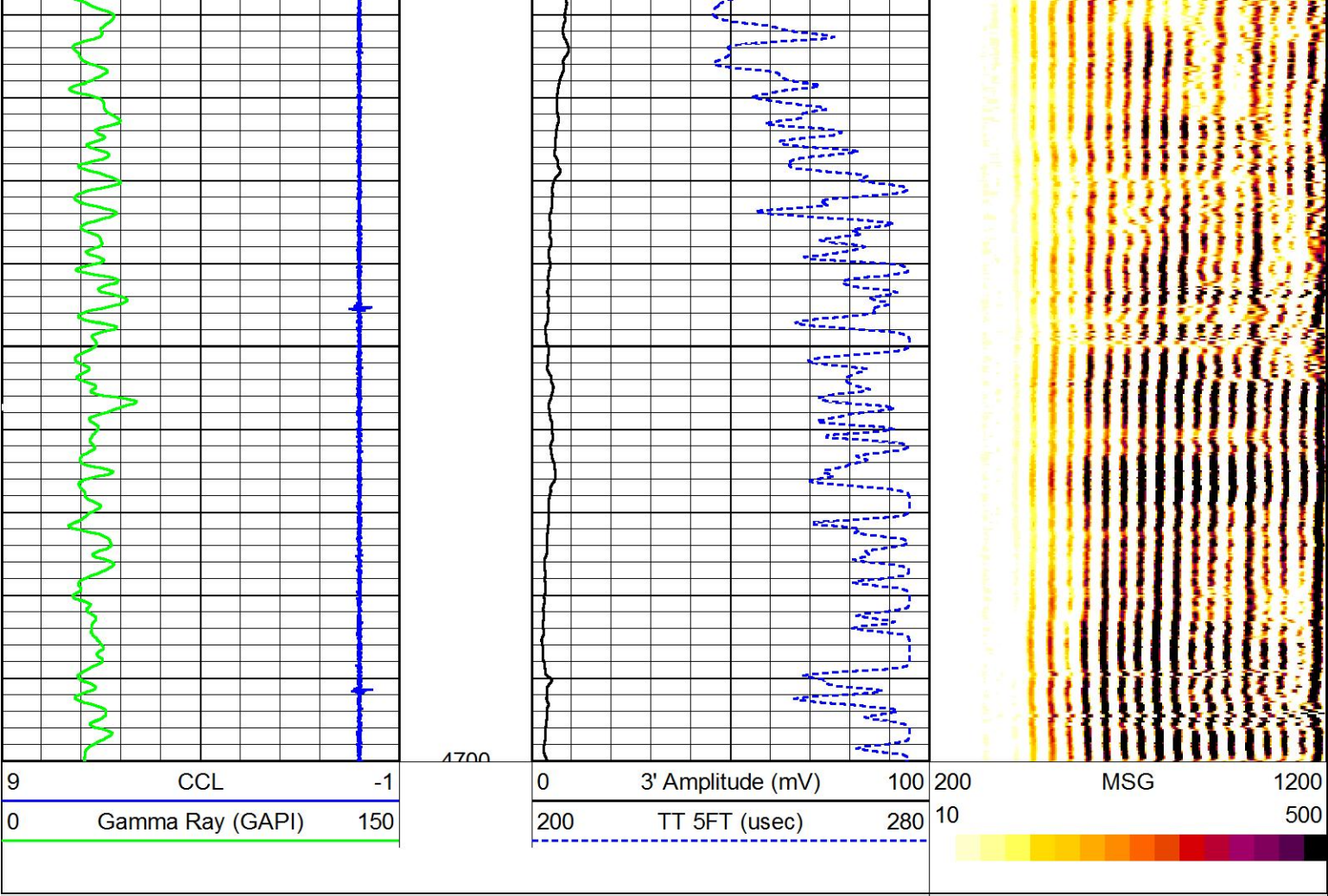
REPEAT PASS

5" = 100'

HALLIBURTON

Database File rowe_26_8n.db
Dataset Pathname RPT
Presentation Format hcbl
Dataset Creation Thu Aug 06 11:08:02 2015
Charted by Depth in Feet scaled 1:240





REPEAT PASS

HALLIBURTON

5" = 100'

Log Variables DatabaseC:\ProgramData\Warrior\Data\rowe_26_8n.db
Dataset field/well/run1/MAIN/_vars_

Top - Bottom

PPT usec 0	CASEWGHT lb/ft 13.5	MAXAMPL mV 81	MINAMPL mV 1	MINATTN db/ft 0.8	SRFTEMP degF 70	MudWgt lb/gal 8.4	CASETHCK in 0.29
CASEOD in 4.5	PERFS 0	TDEPTH ft 7100	BOTTEMP degF 200	BITSIZE in 8.75			

Calibration Report

Database File rowe_26_8n.db
Dataset Pathname TIE1
Dataset Creation Thu Aug 06 11:26:45 2015

Gamma Ray Calibration Report

Serial Number: 10973876
Tool Model: Probe
Performed: Tue Aug 04 16:09:07 2015

Calibrator Value: 135.0 GAPI

Background Reading: 34.4 cps
Calibrator Reading: 167.1 cps

Sensitivity: 1.0174 GAPI/cps

Segmented Cement Bond Log Calibration Report


Serial Number: 070418

Serial Number: 070418		Tool Model: Probe	
Calibration Casing Diameter: 4.500		in	
Calibration Depth: 1047.640		ft	

Master Calibration, performed Thu Aug 06 10:43:28 2015:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.961	0.000	81.196	84.505	0.000
CAL						
5'	0.000	0.862	0.000	81.196	94.220	0.000
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00
			CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00

Tool Joint	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Description	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)
DCCL	3.64	3.64		CCL	8.92	2.75	60.00
				CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
				GR-Probe (10973876) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
GR	0.90						

Dataset: rowe_26_8n.db: field/well/run1/MAIN

Total length: 20.50 ft

Total weight: 131.00 lb

O.D.: 2.75 in