

HALLIBURTON										CEMENT BOND LOG									
Company					VERDAD OIL & GAS CORP					Company					VERDAD OIL & GAS CORP				
Well					MEEHL 01N-65W-24-2N					Well					MEEHL 01N-65W-24-2N				
Field					WATTENBERG					Field					WATTENBERG				
County					WELD State CO					County					WELD State CO				
Sec: 24 Twp: 1N Rge: 65W										GAMMA RAY									
										API No.: 0512340874-00 Serv #: 902657560 Other Services									
										Location: 270' FSL 1548' FEL SW/SE									
Permanent Datum					5022' Elevation 5022'														
Log Measured From					KB , 16' Ft. above perm. datum														
Drilling Measured From					KB														
Date @ Time Logged					8/23/2015 @ 10:30					Type Fluid in Hole					WATER				
Run No.					ONE					Density of Fluid					8.33				
Depth - Driller					11792'					Fluid Level					85'				
Depth - Logger					7340'					Cement Top Est. Logged					4992'				
Bottom - Logged Interval					7340'					Equipment / Location					11917240 / WILLISTON				
Top - Log Interval					SURFACE					Recorded by					OAK JEFFERIES				
Max. Recorded Temp.					197° F					Witnessed by					A. LAUBSCH				
CEMENTING DATA					Surface					Protection					Liner				
Date / Time Cemented					String					Production					String				
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		Size		Weight		From		To					
		13.5"		1300'		0'		9.625"		36#		1300'		0'					
		8.75"		7435'		0'		7"		26#		7435'		0'					
		6.125"		11717'		0'		4.5"		13.5#		11717'		0'					

Service Ticket No.	902657560	API No.	0512340874-00	PGM Ver	WARRIOR 8
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
TELEMETRY		CBL			
Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	11577197	Serial No.	12091451	Serial No.	
Model No.	TTTCU-002	Model No.	HCBL-M	Model No.	
Diameter	1.69"	Diameter	2.75"	Diameter	
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

ONE	7340'	SURFACE	0	REC.	LOGGED BETWEEN 55-60 fpm			
	GAMMA RAY		CBL					
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
	0	200	0	100				
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

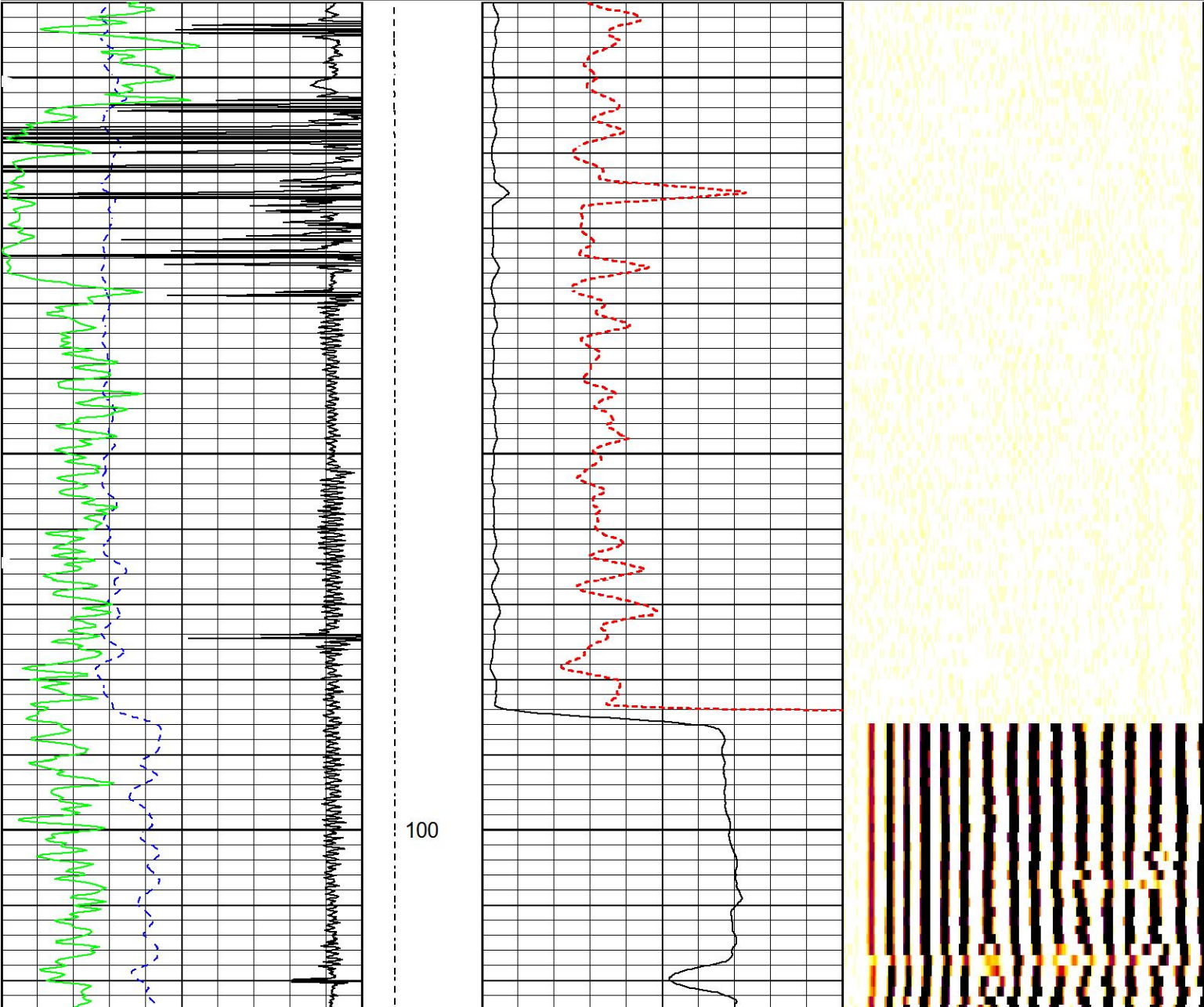
MAIN PASS

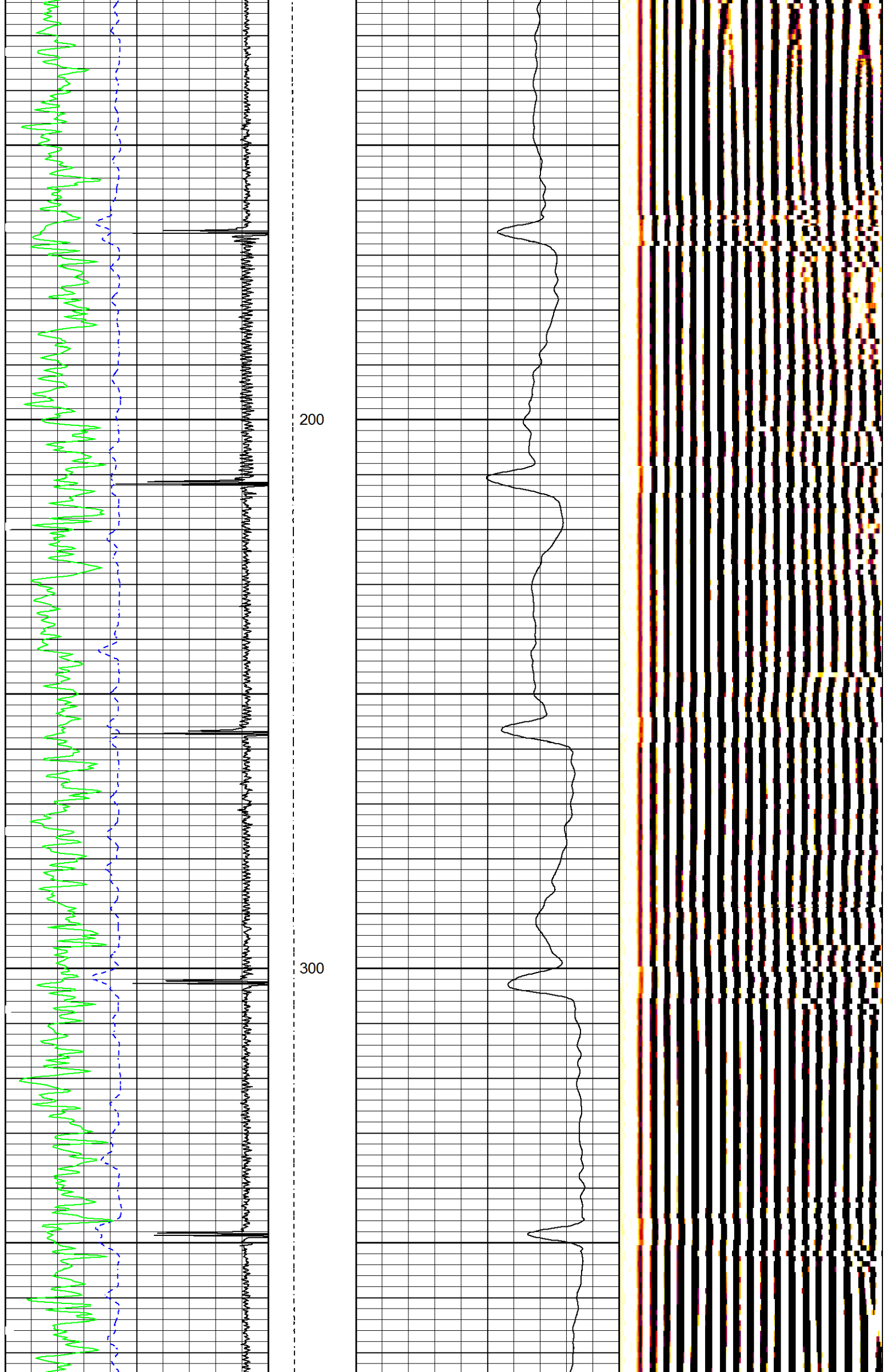
HALLIBURTON

5" = 100'

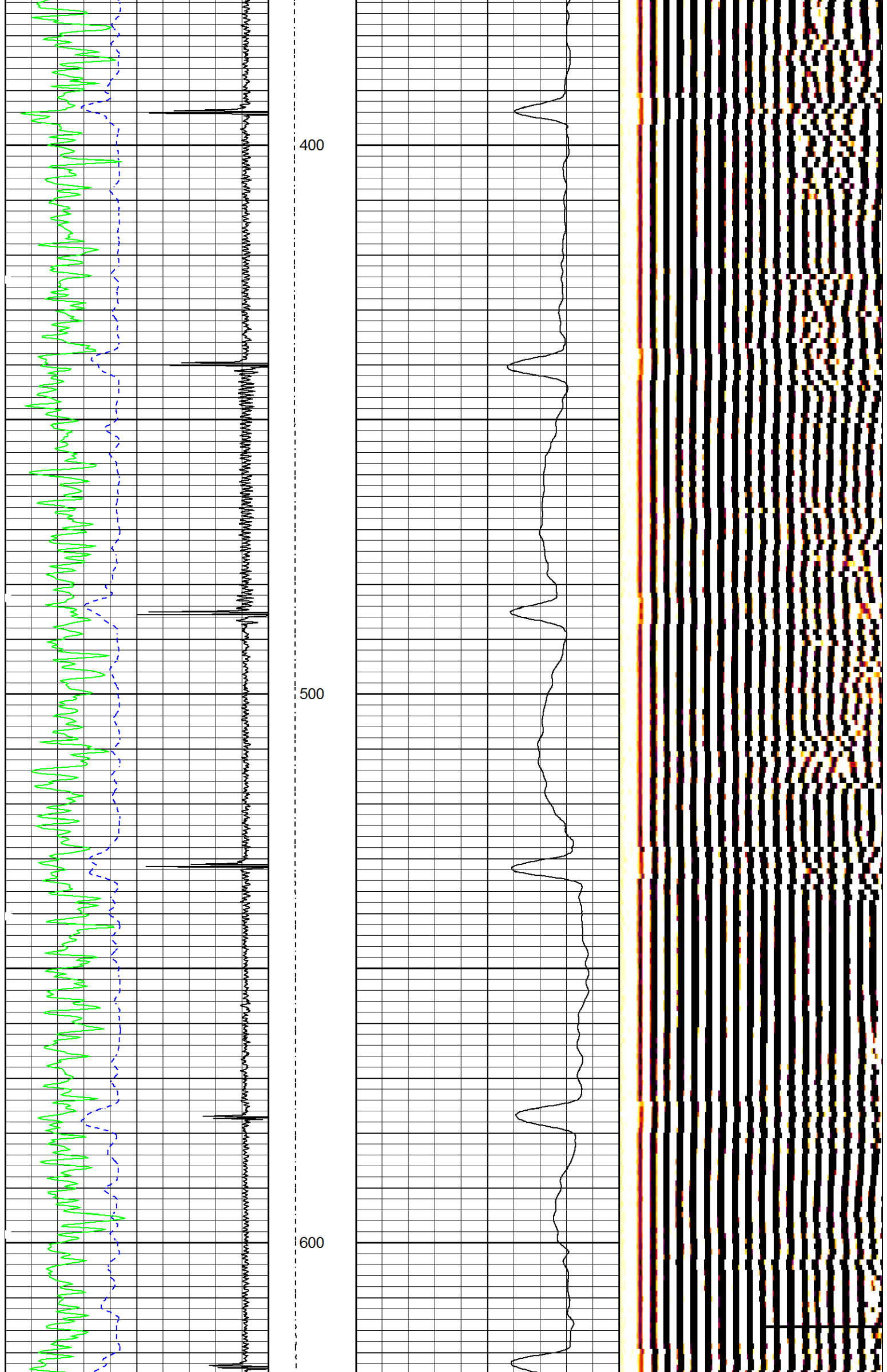
Database File       meehl 24-2n.db  
Dataset Pathname    CBL/MAIN  
Presentation Format   o\_cbl  
Dataset Creation     Sun Aug 23 11:19:29 2015  
Charted by           Depth in Feet scaled 1:240

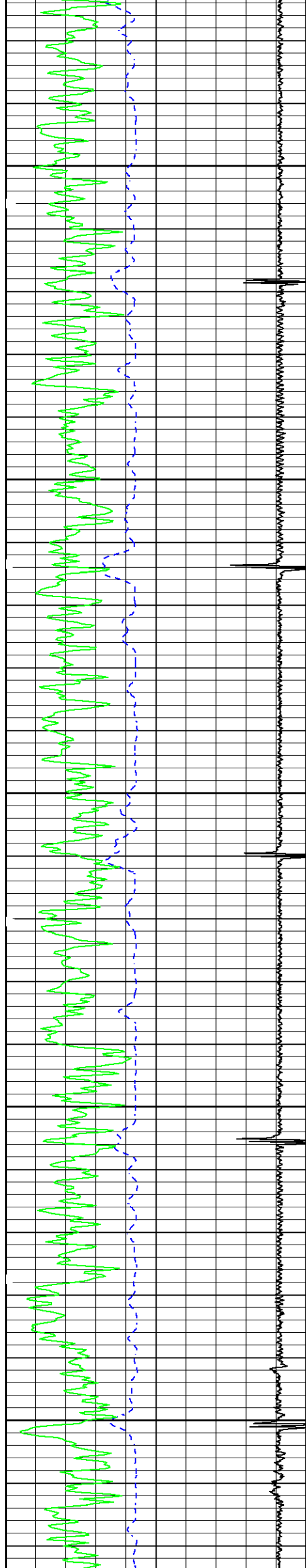
3' Travel Time	LTEN	0	3' Amplitude (mV)	100	200	MSG	1060
CCL	0 (lb 1000	0	3' Amplitude X5 (mV)	10	10		500
0 Gamma Ray (GAPI) 100	TEMP						
	(degF)						
	0 300						





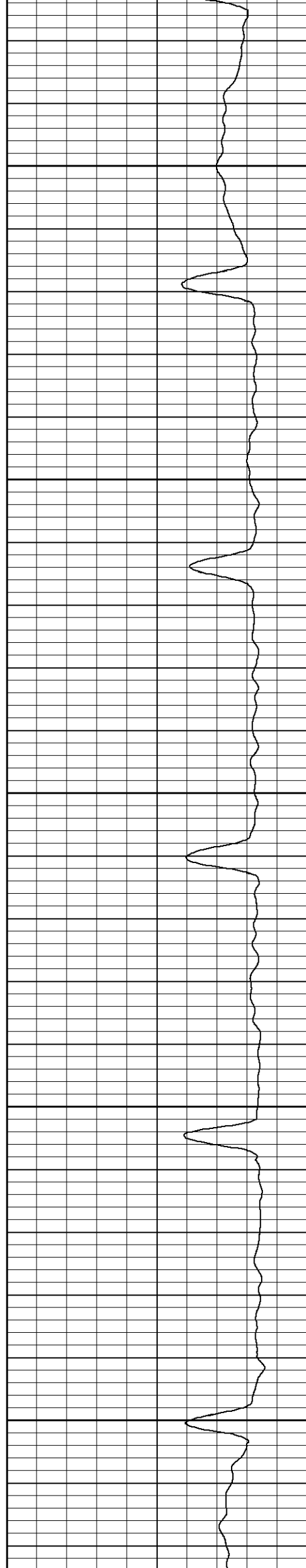


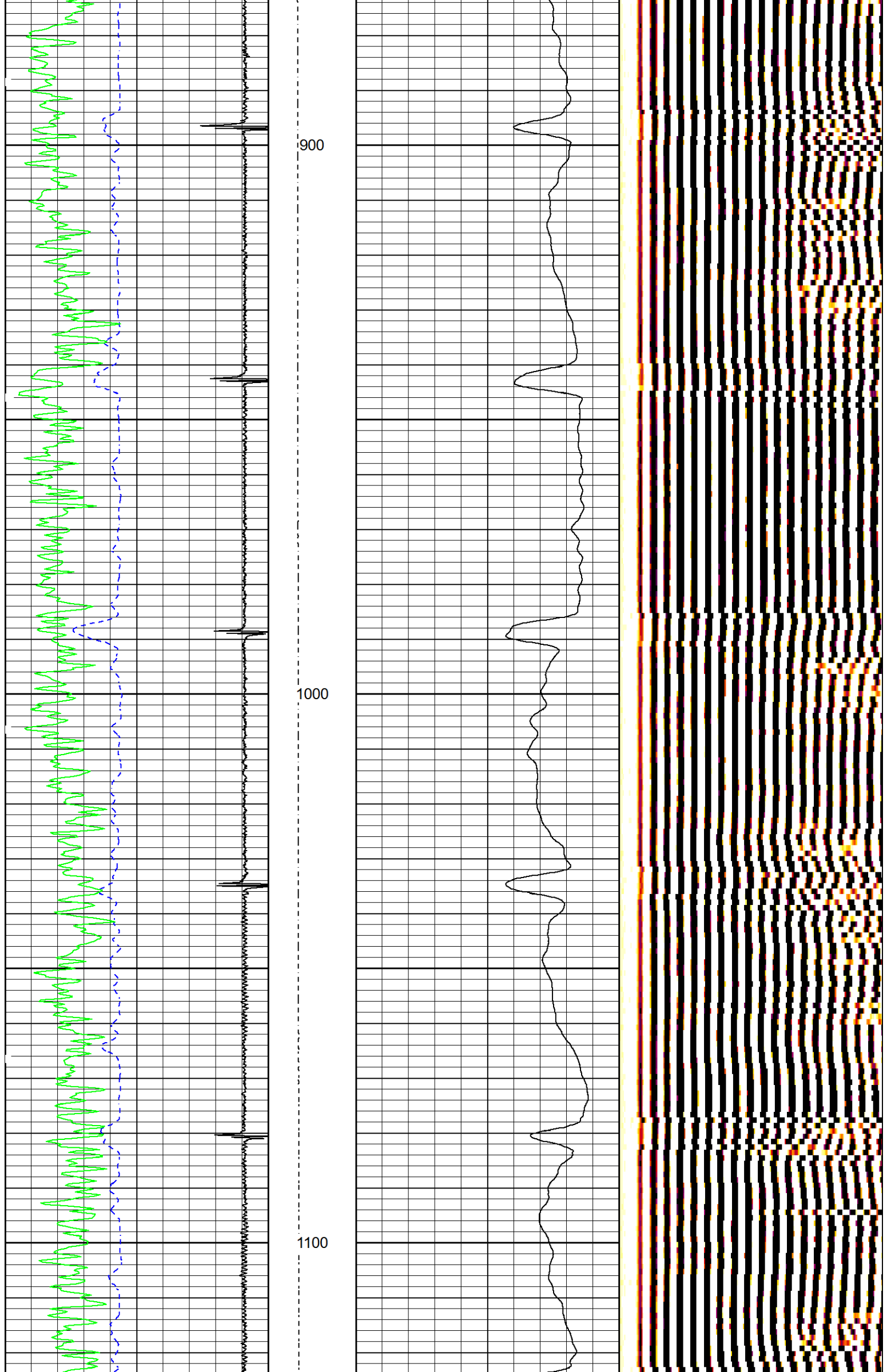


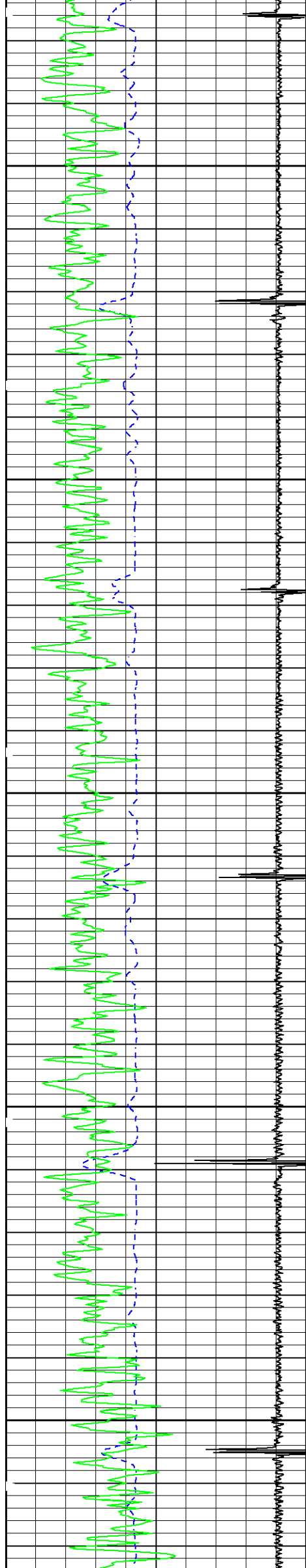


700

800

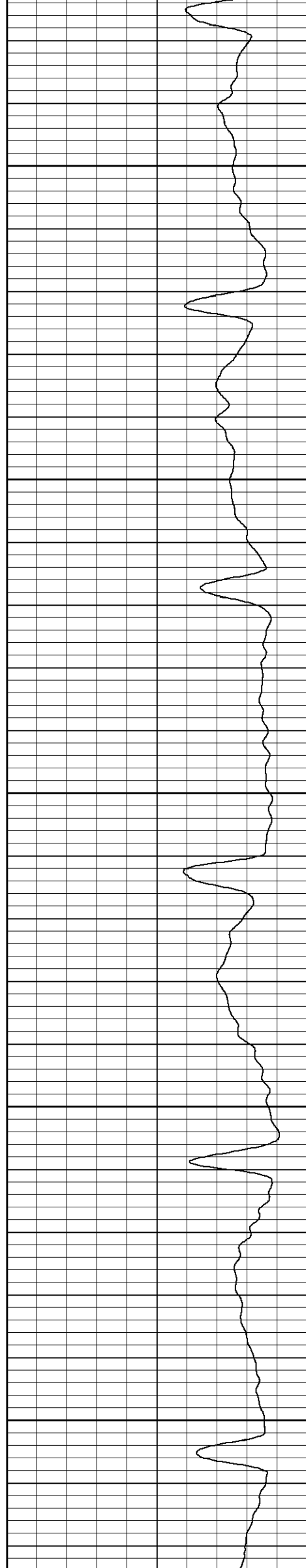


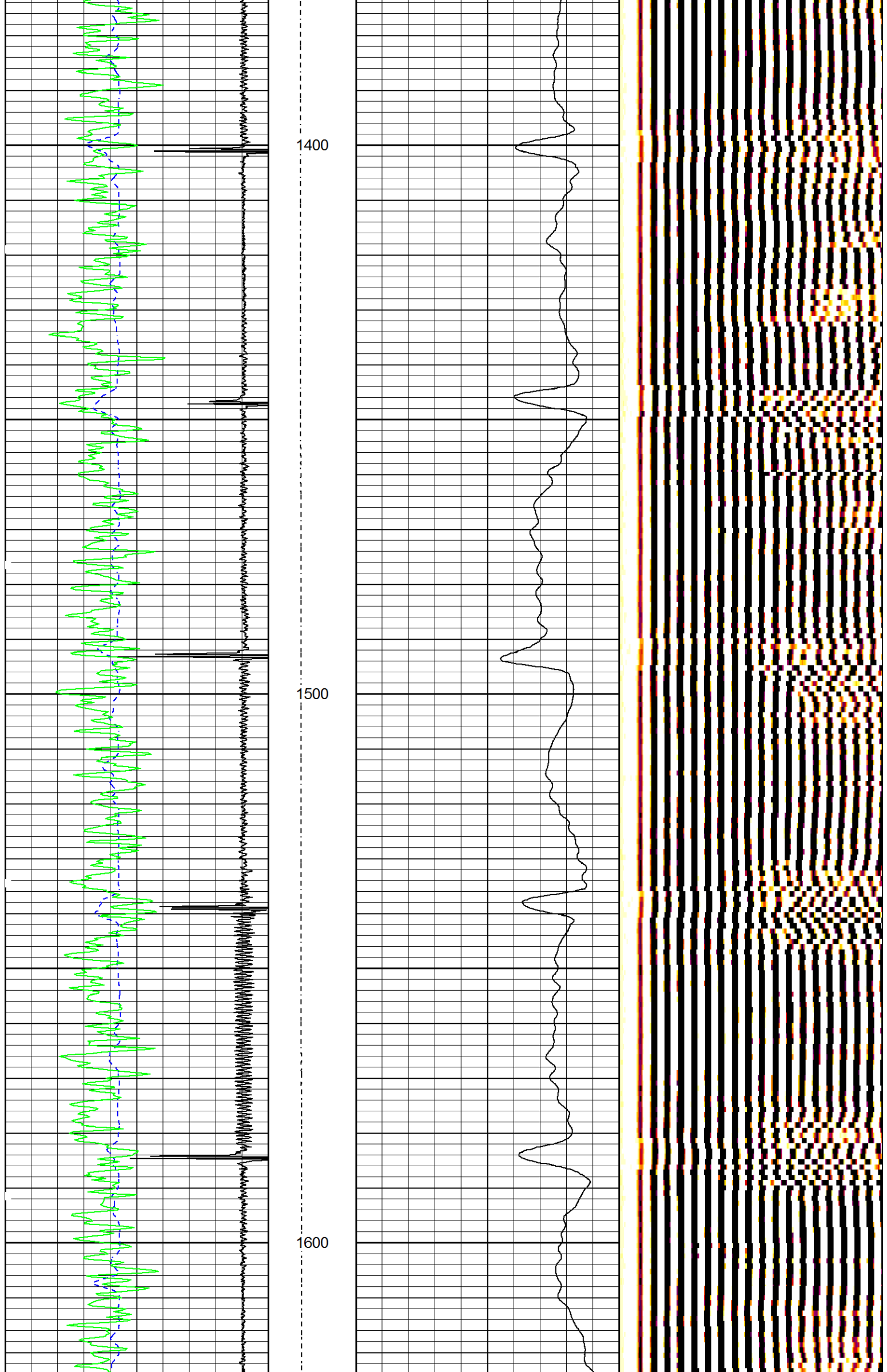




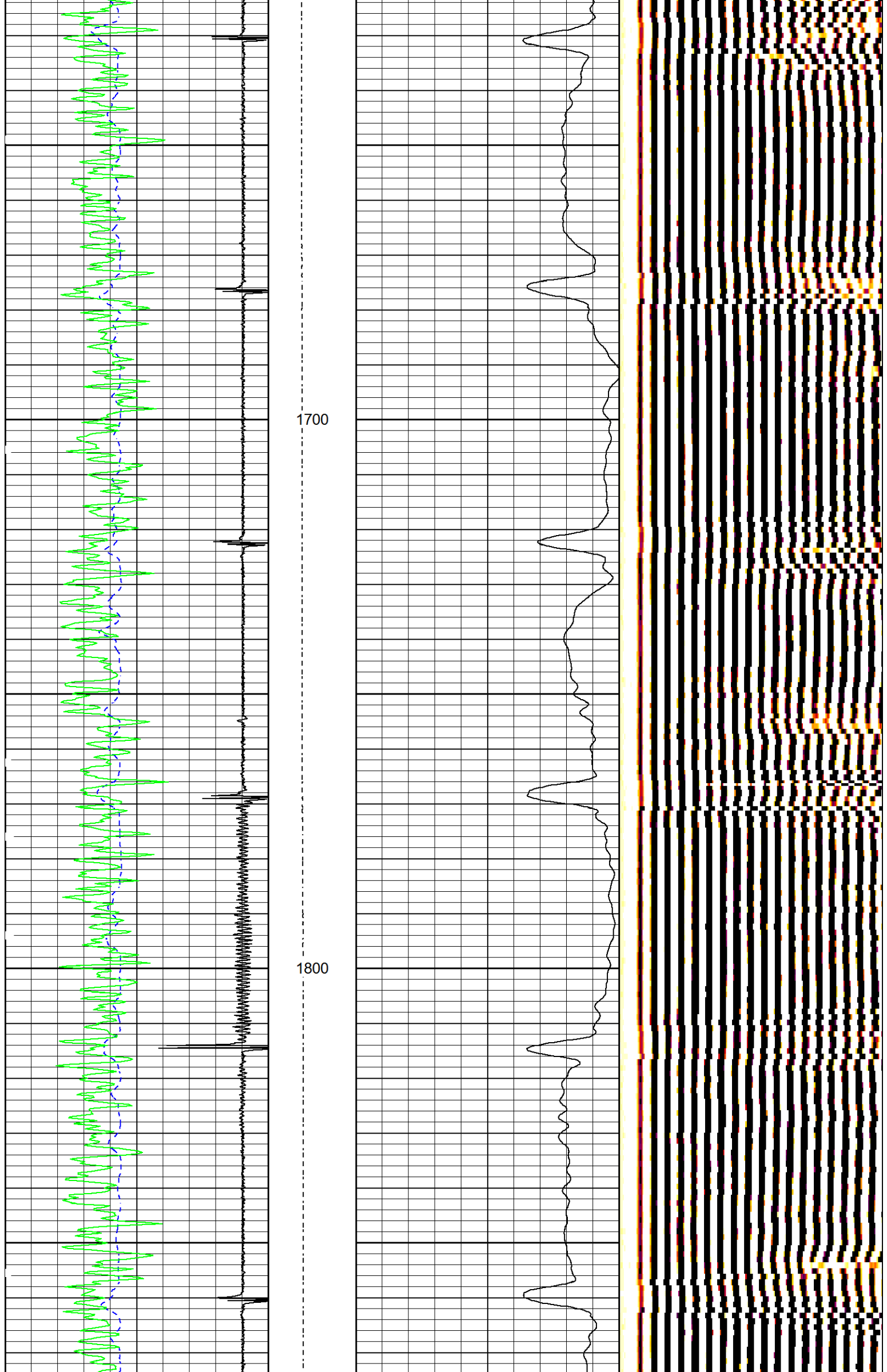
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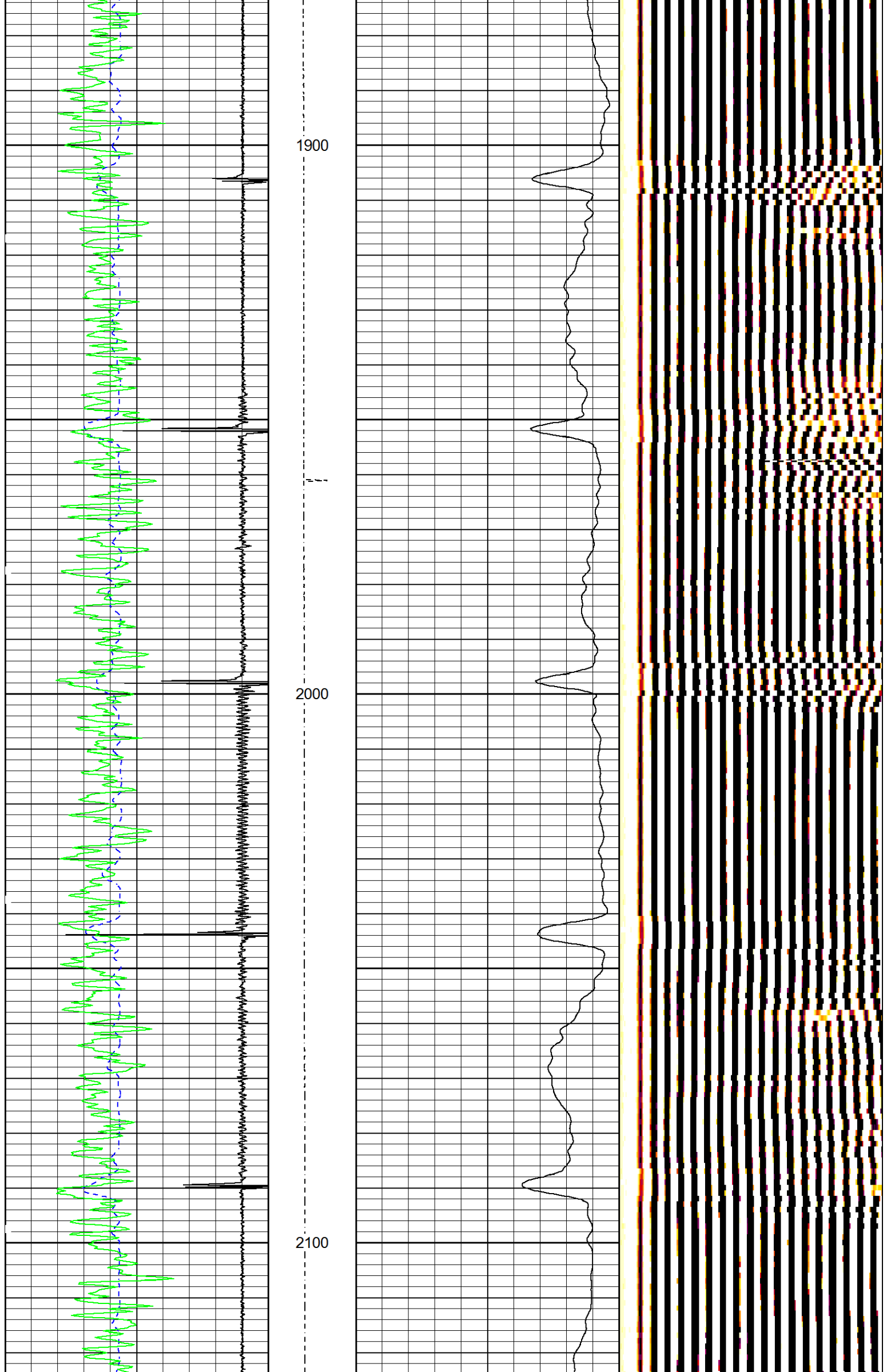
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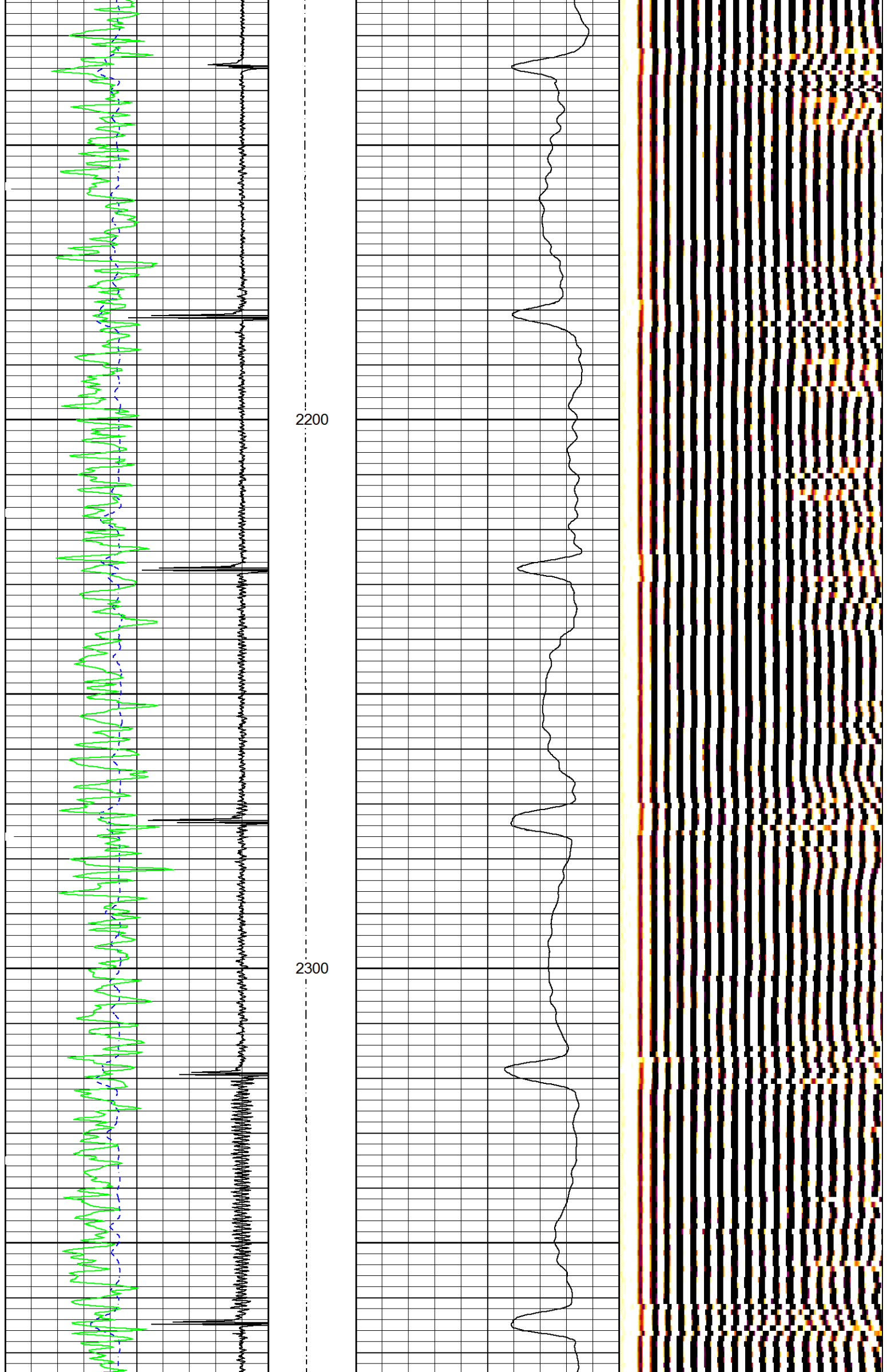


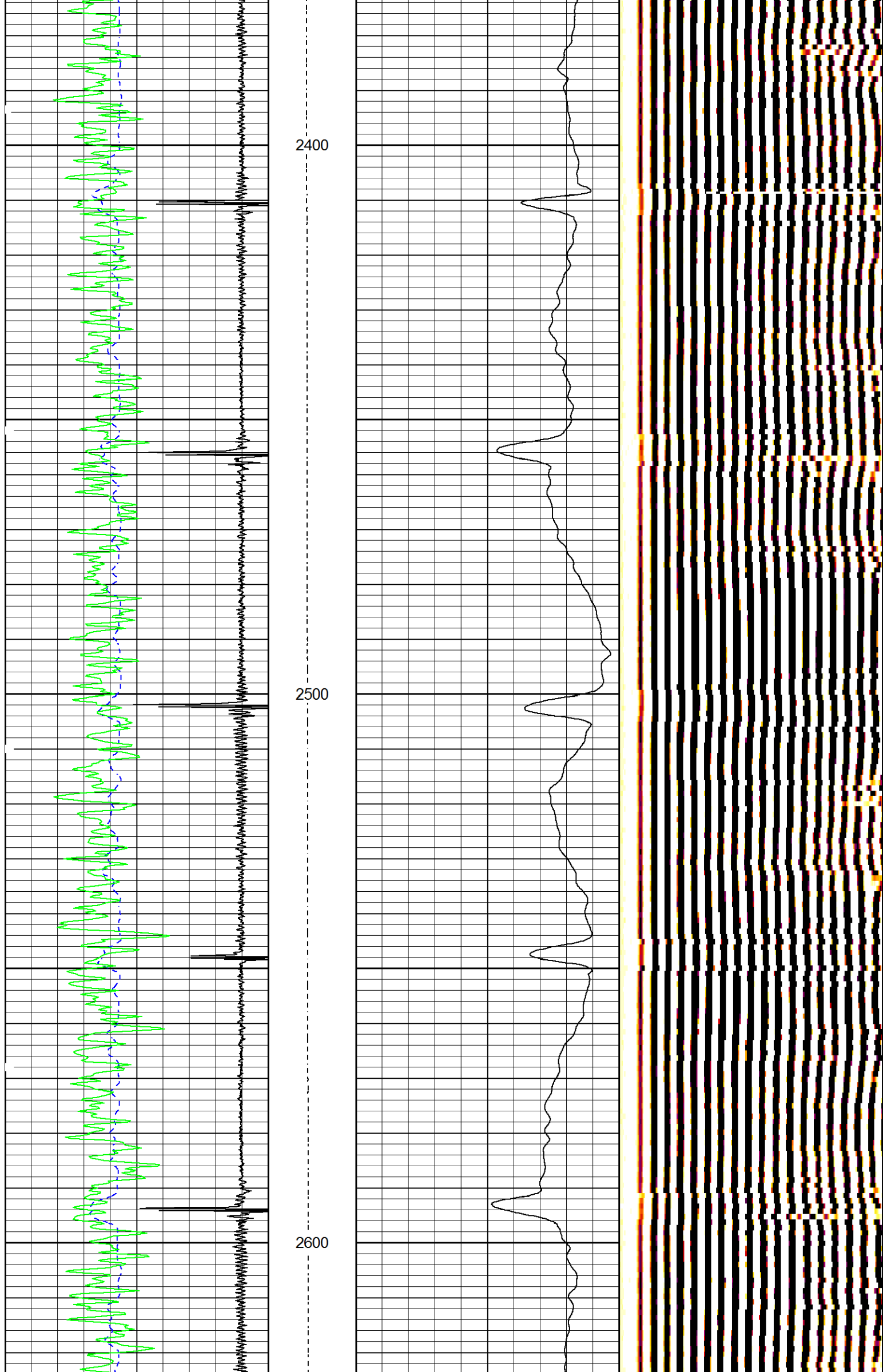


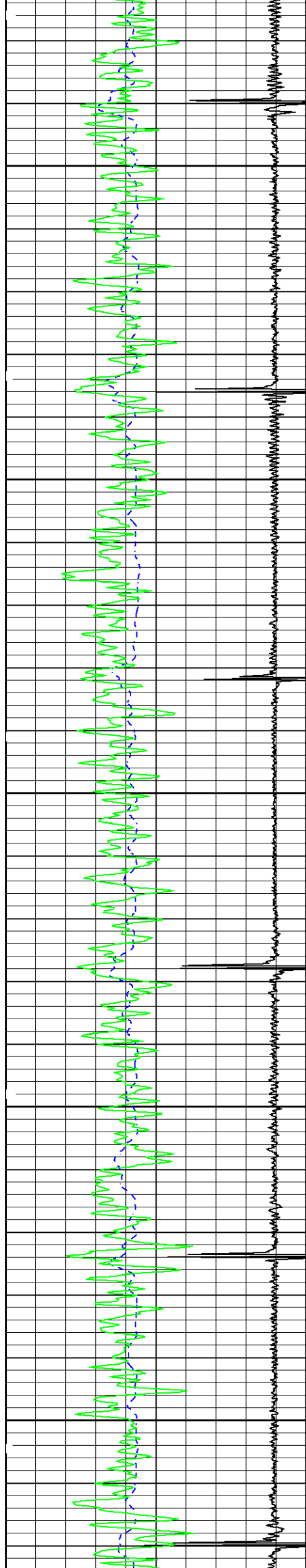






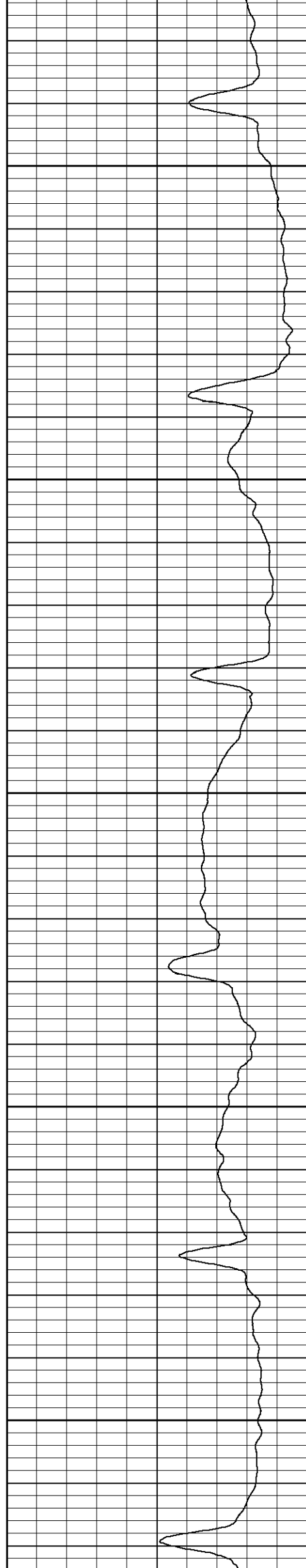




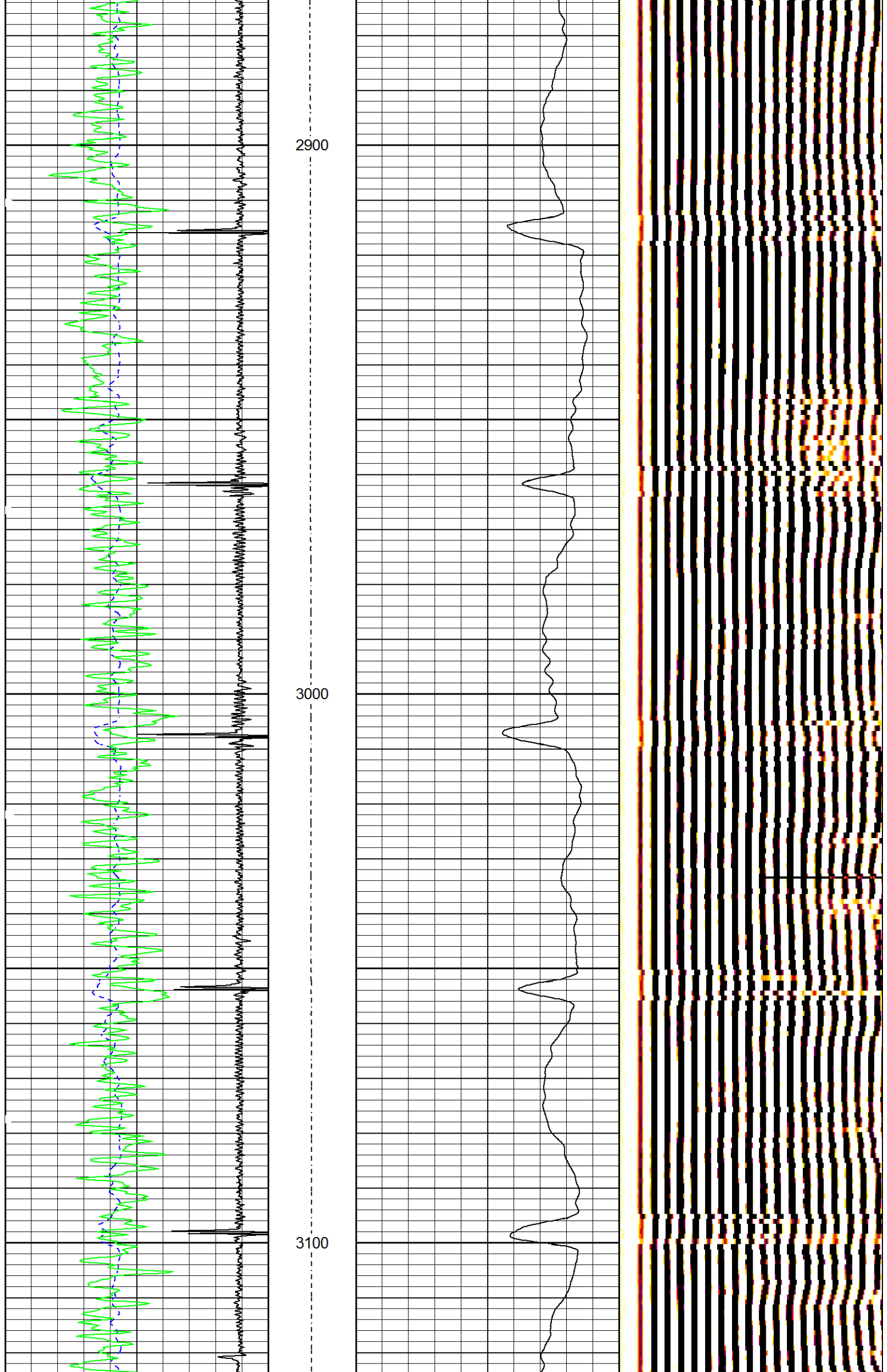


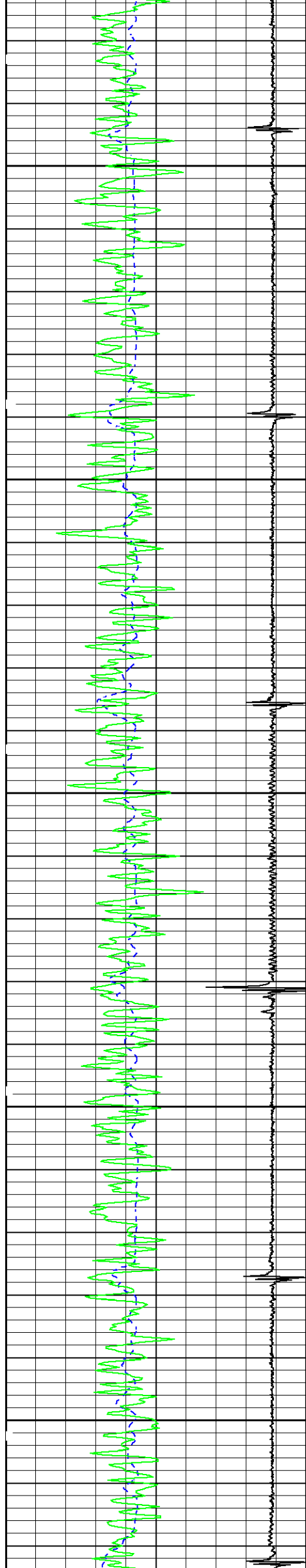
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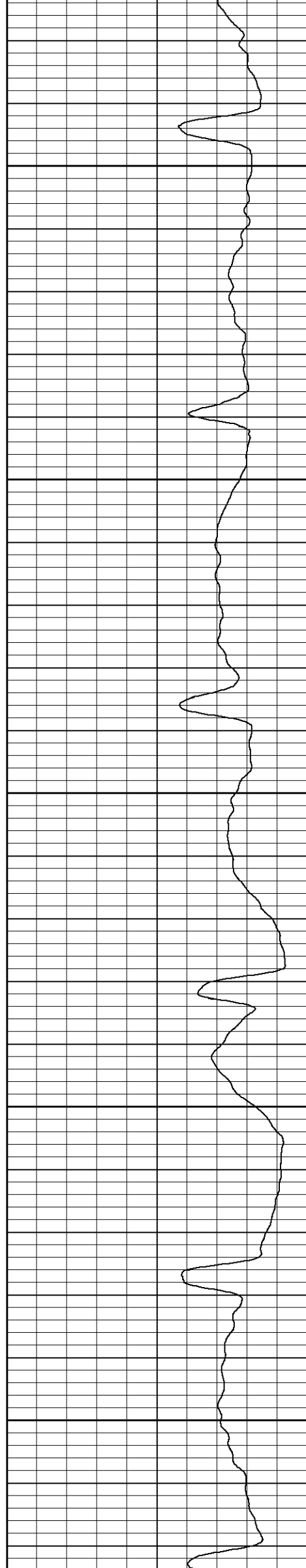


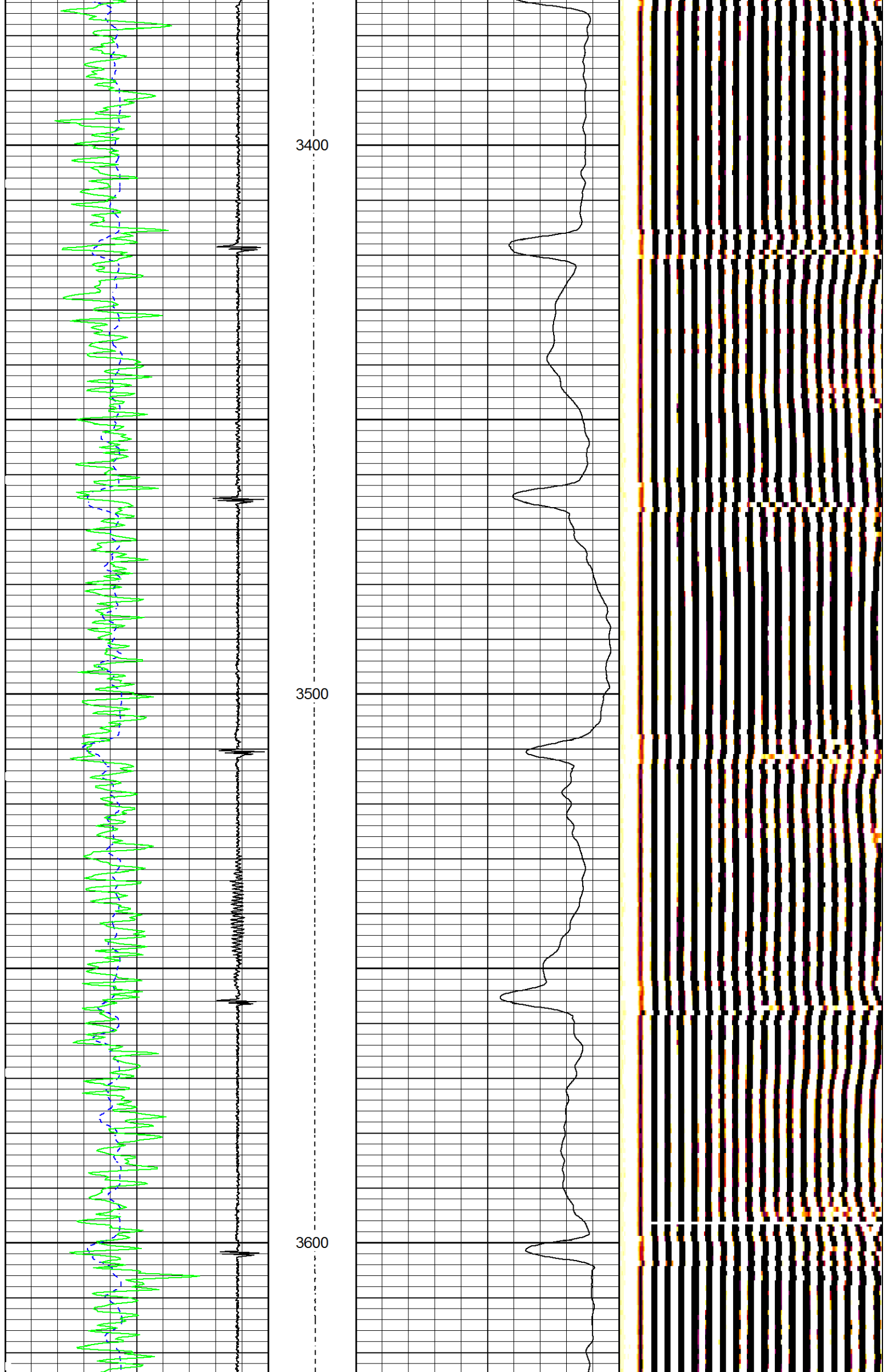


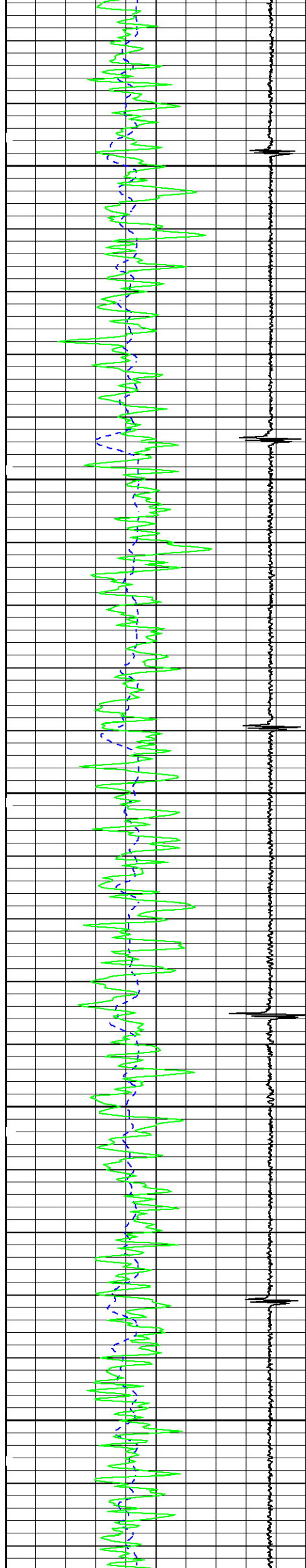


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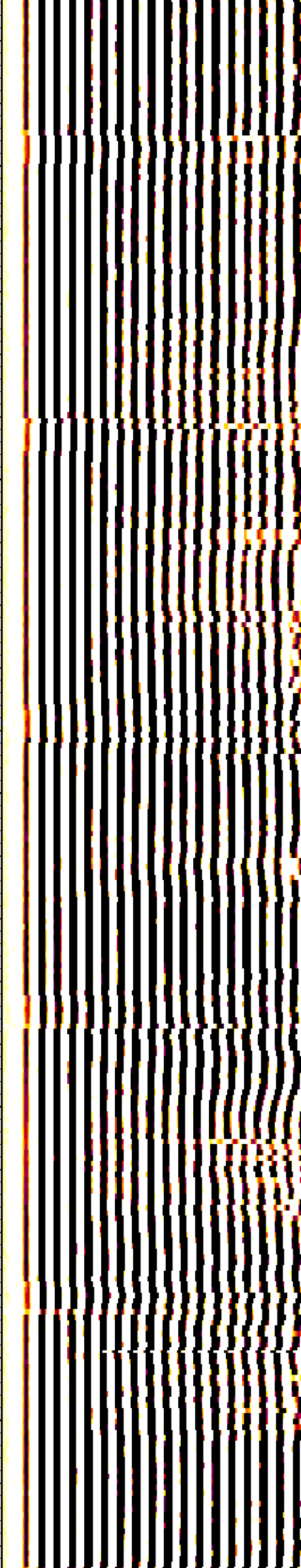
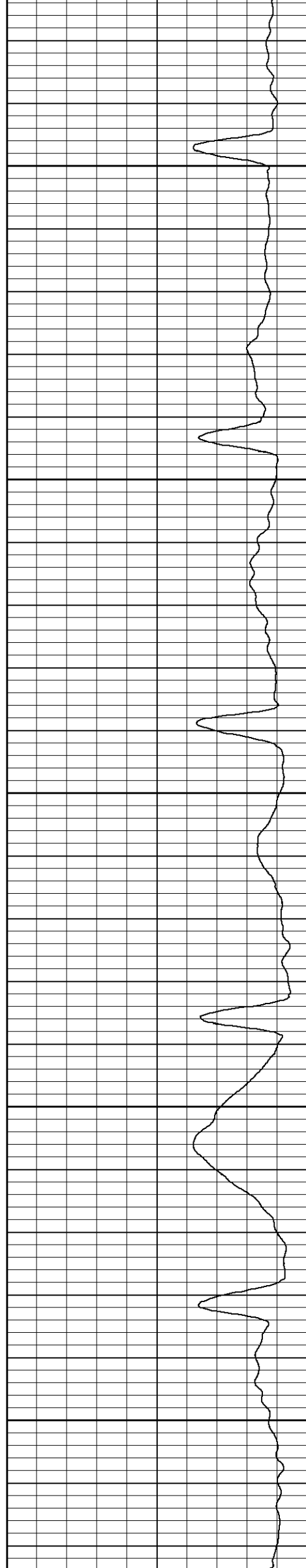


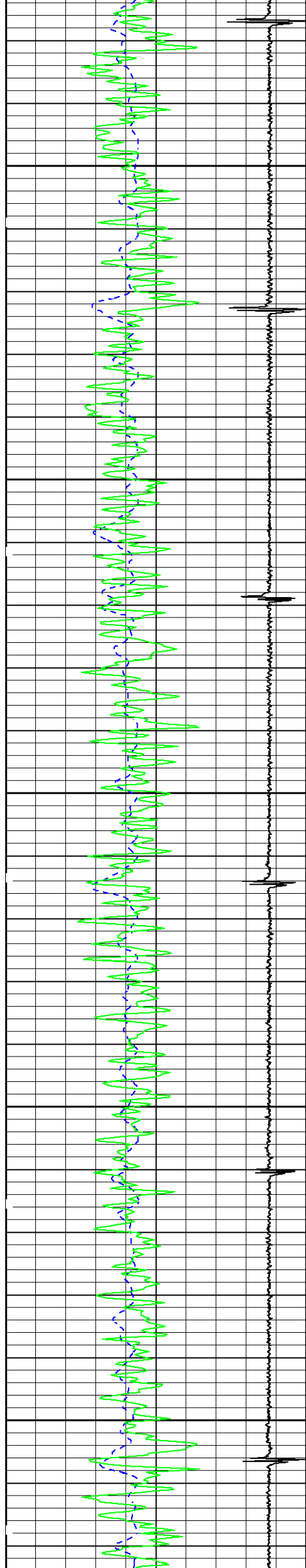




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3800

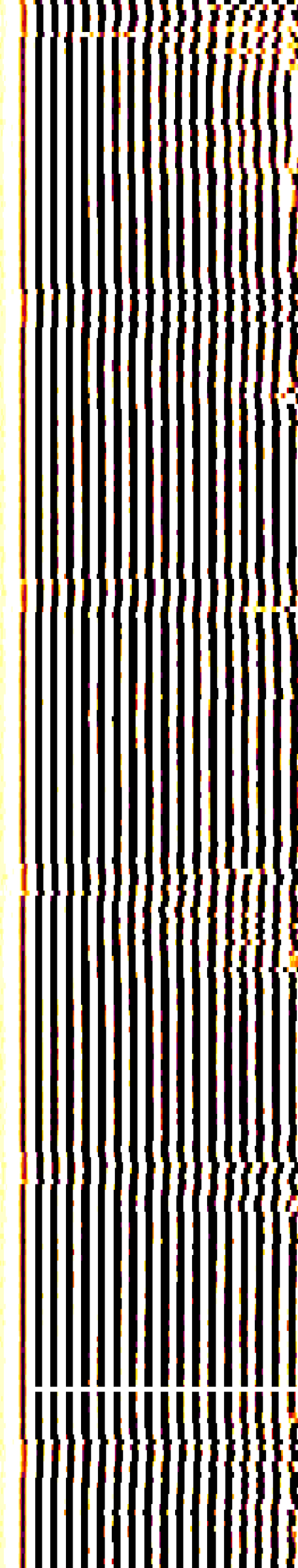
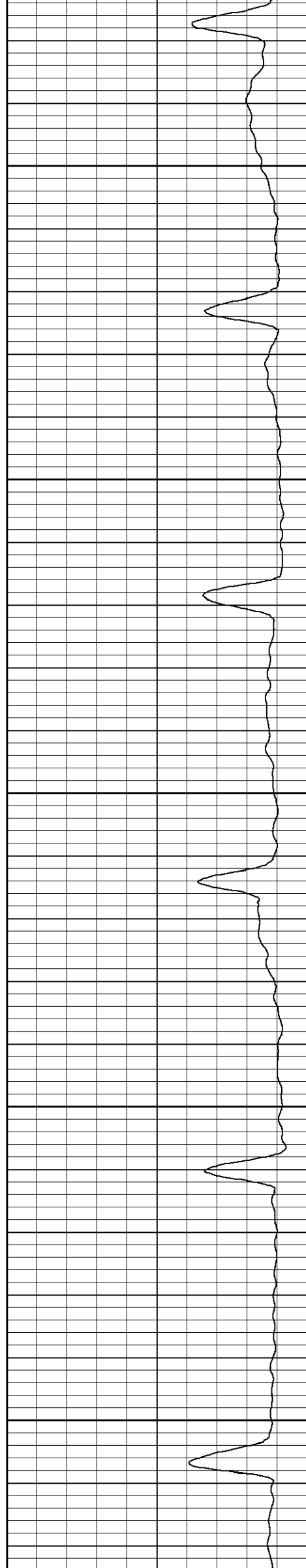




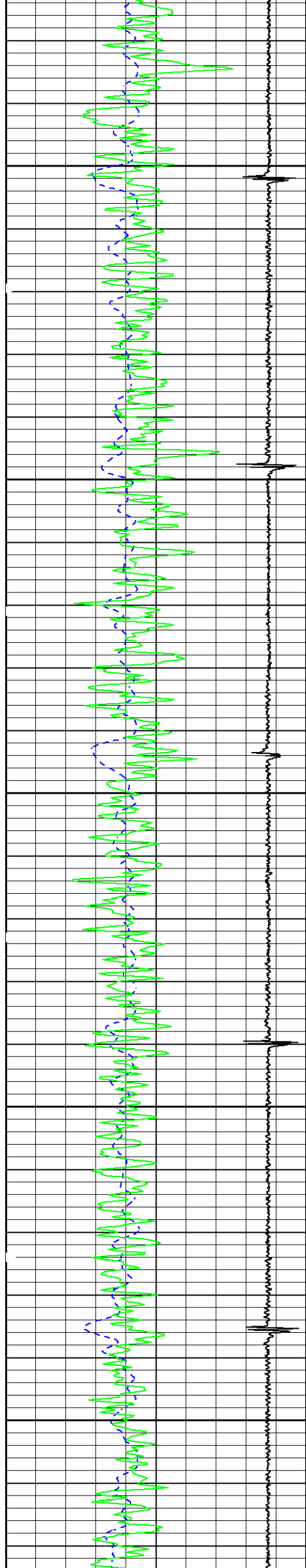
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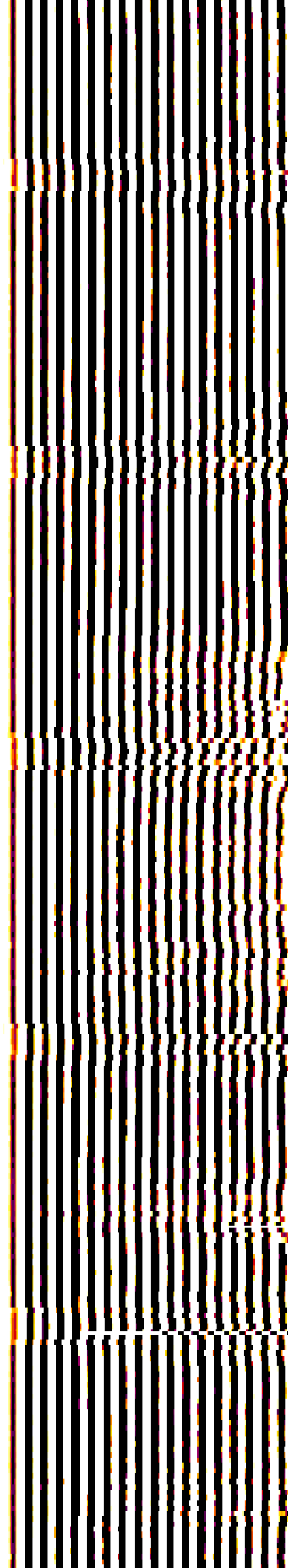
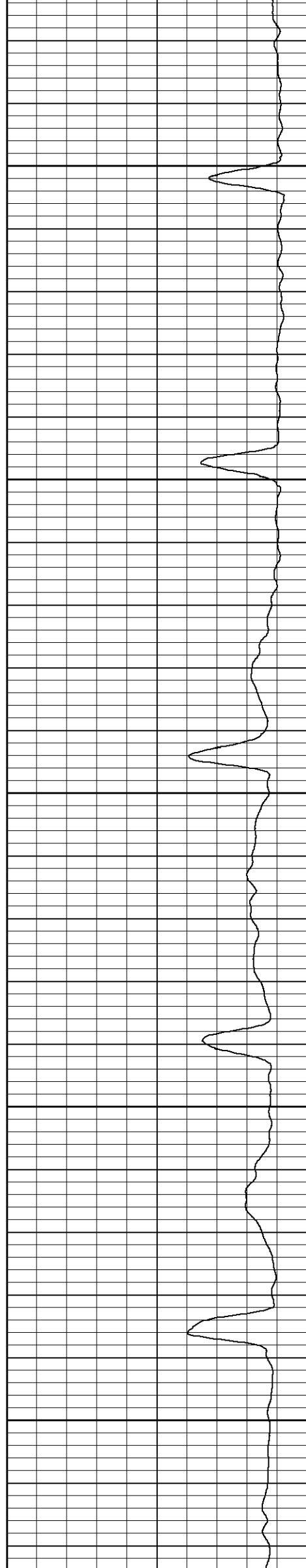


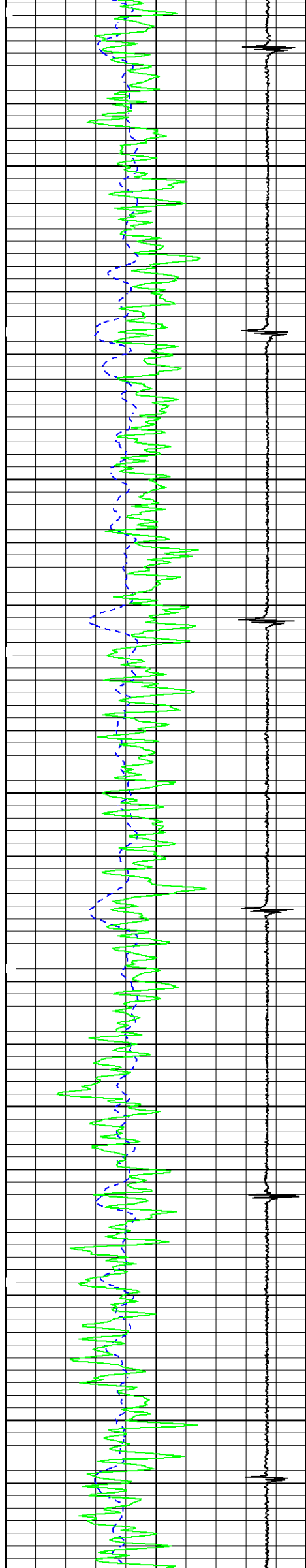




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4300

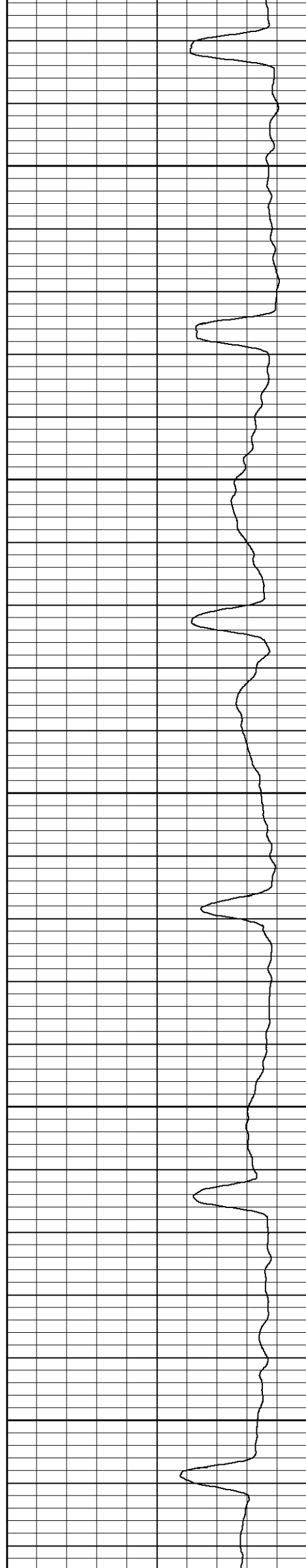


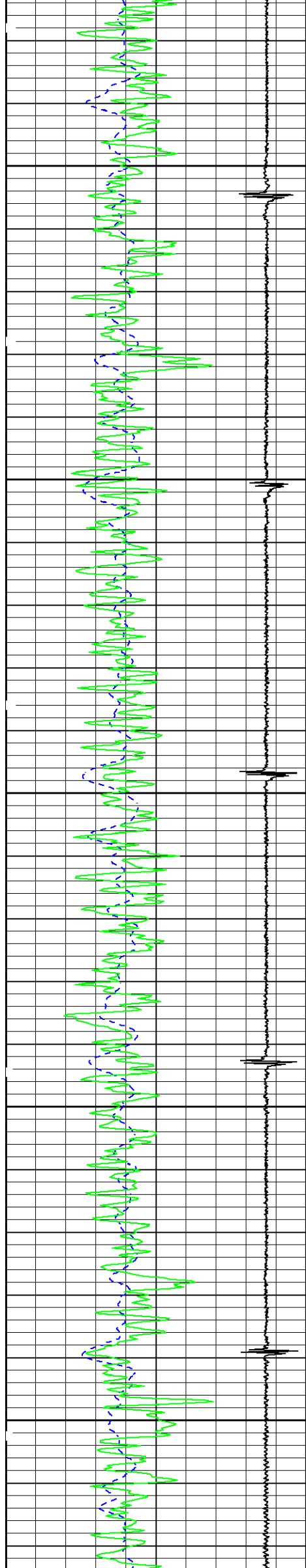


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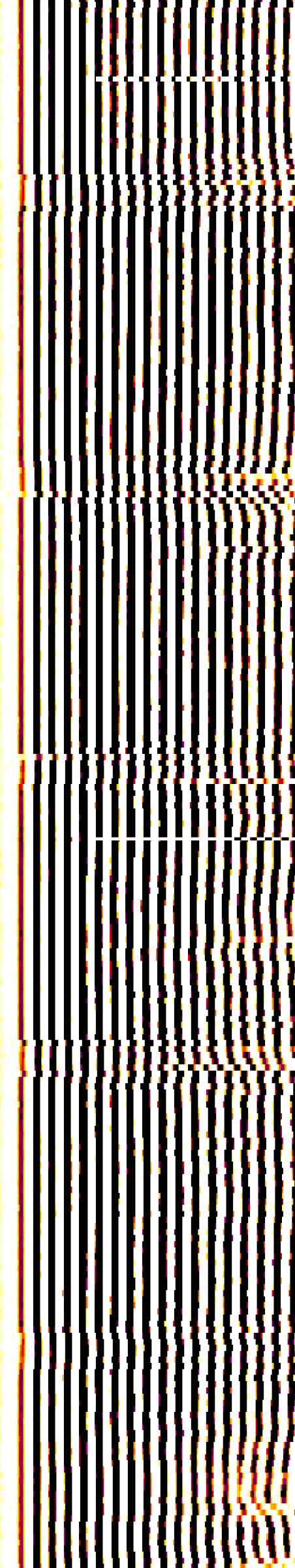
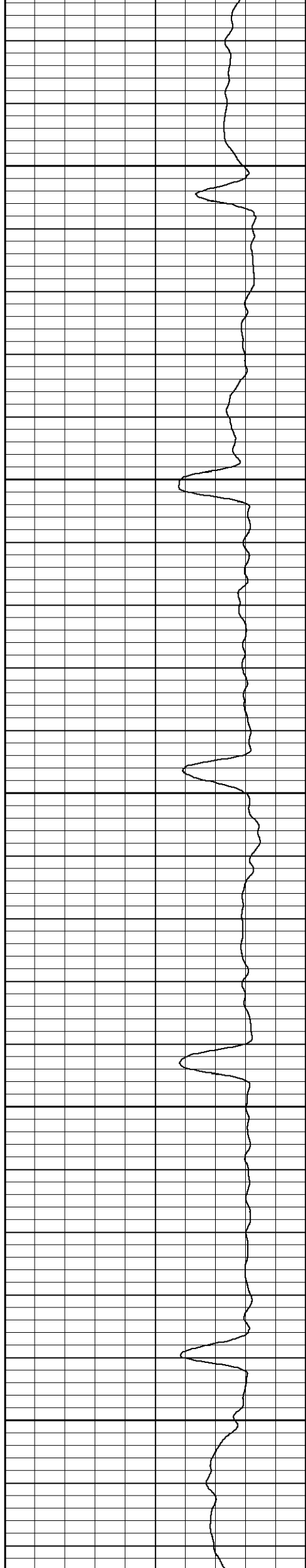
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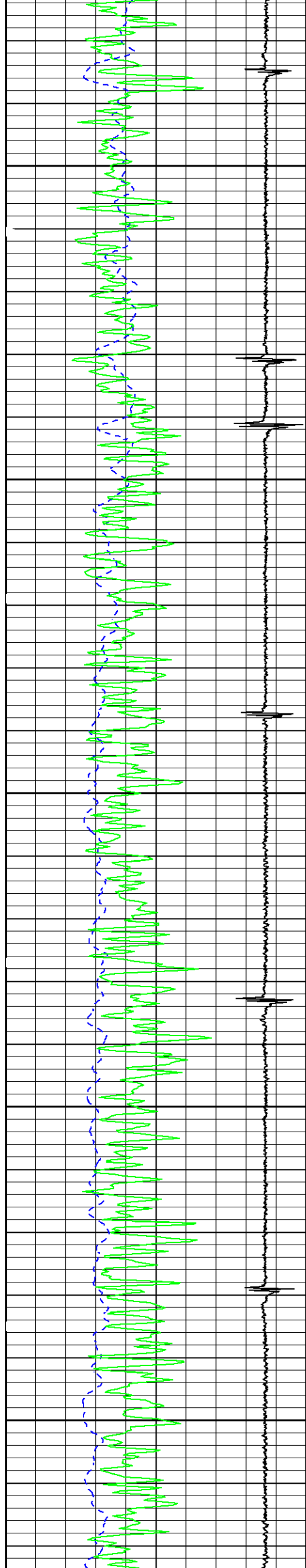




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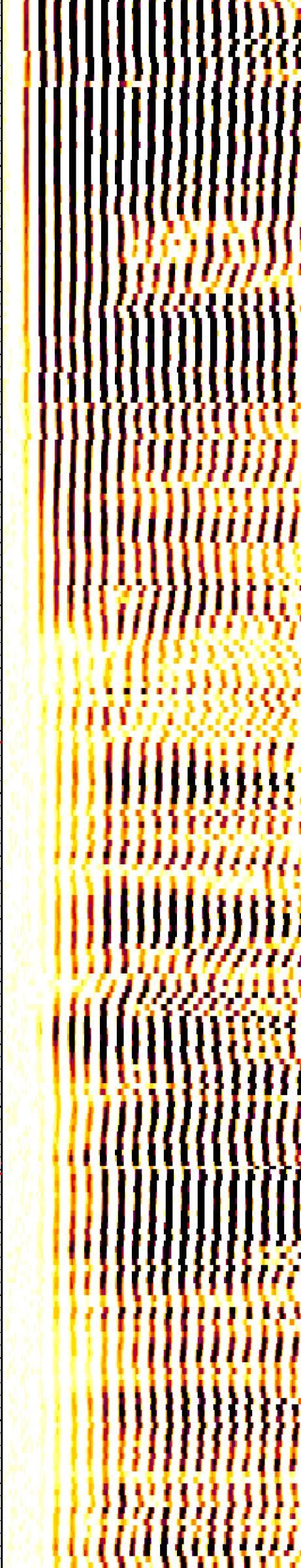
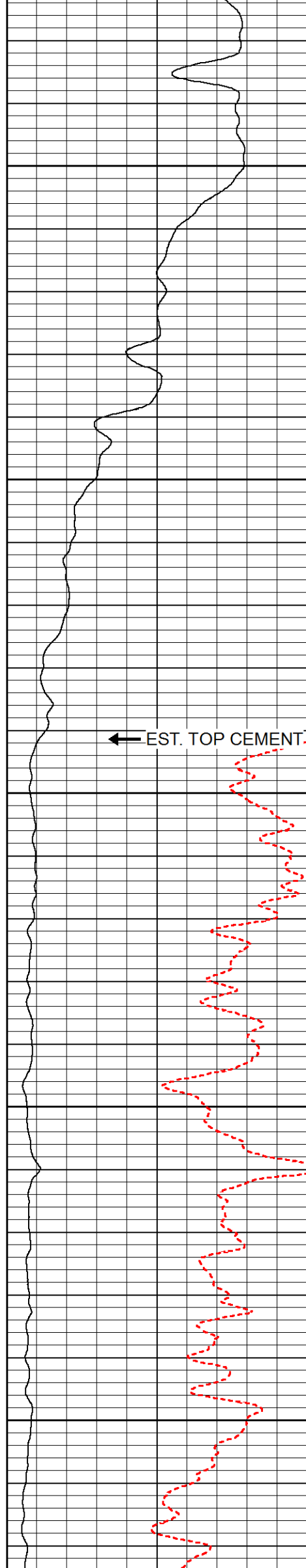


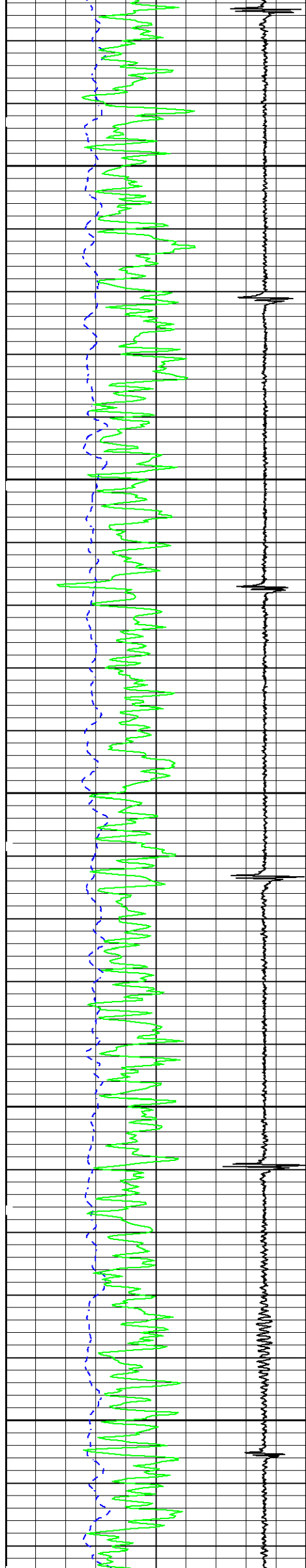


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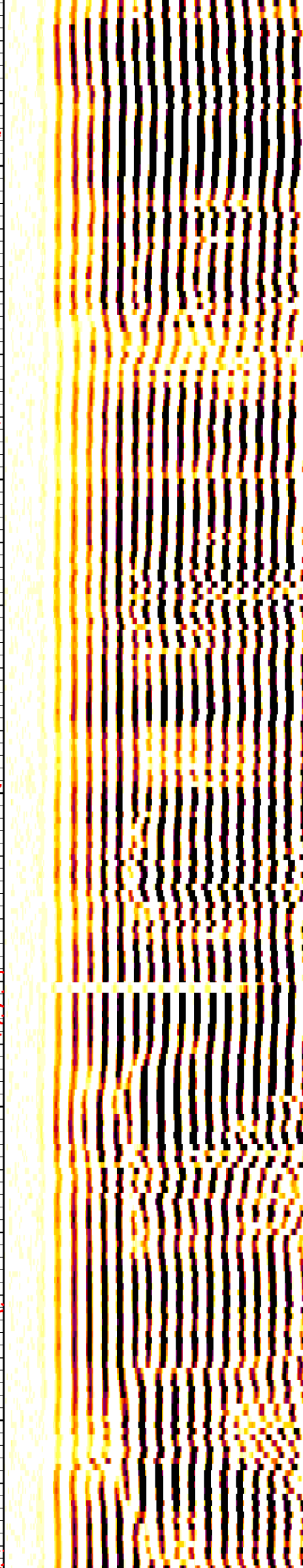
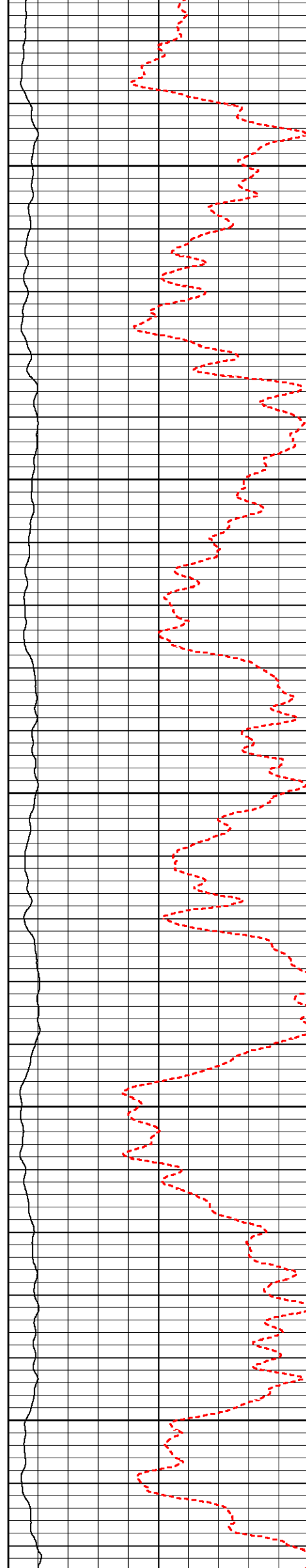
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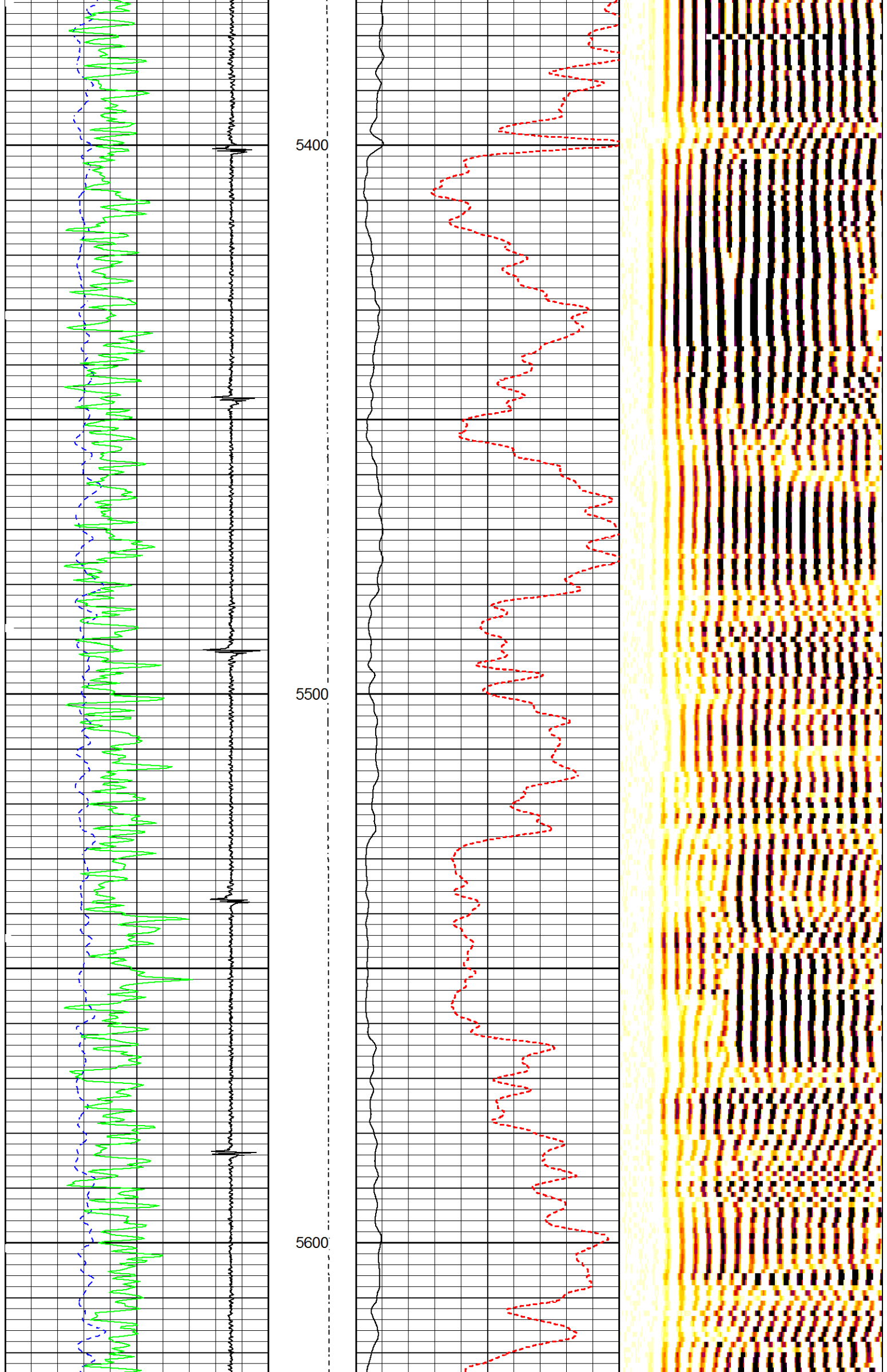


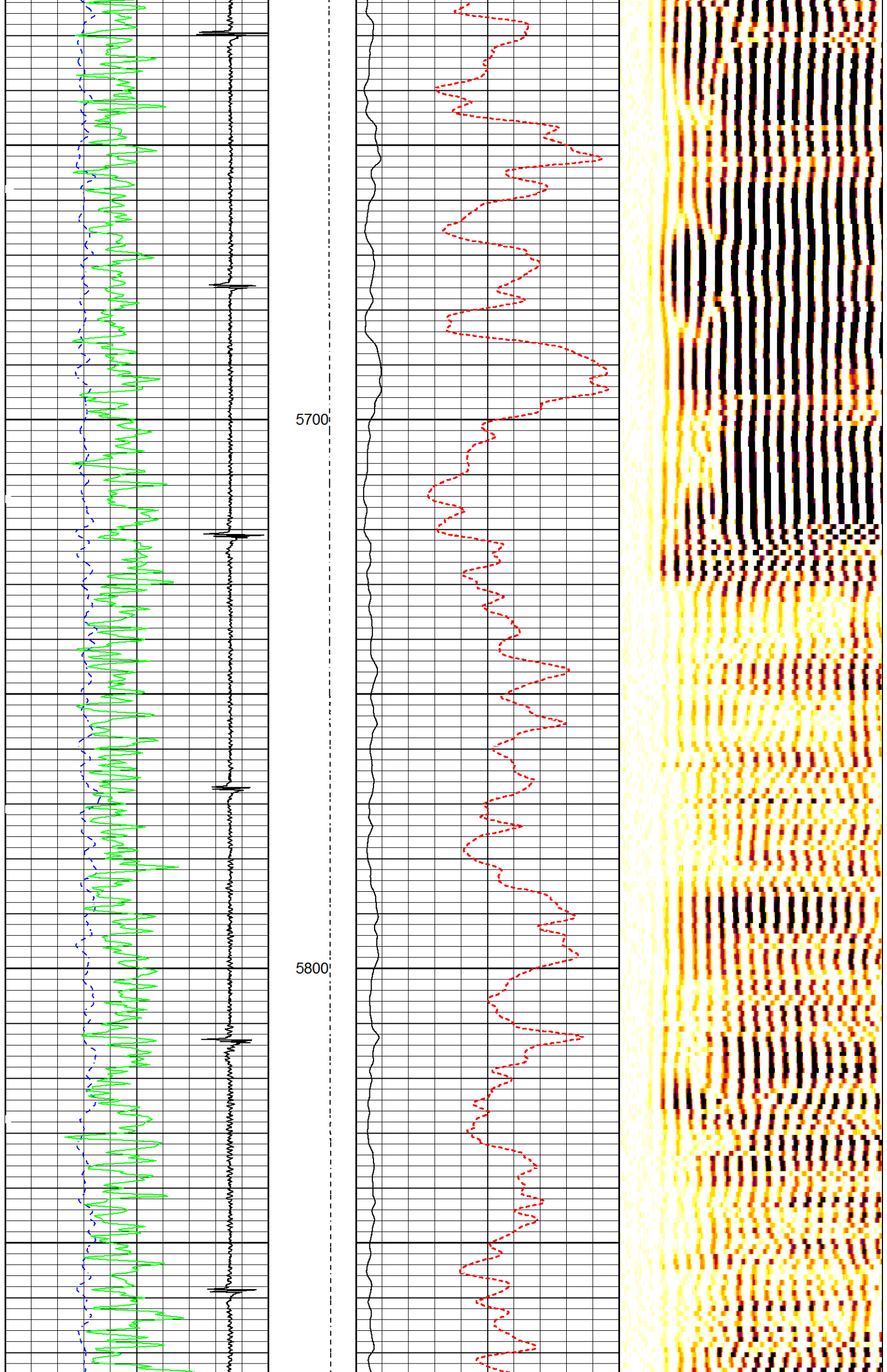
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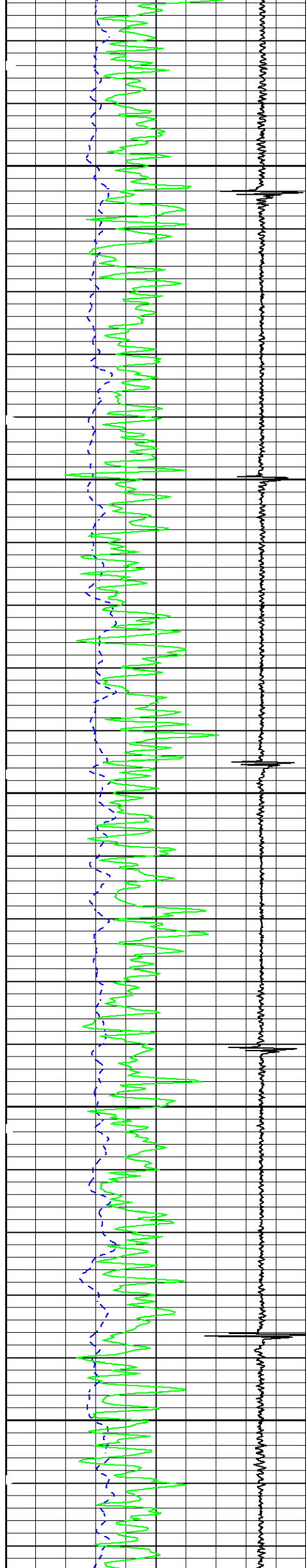
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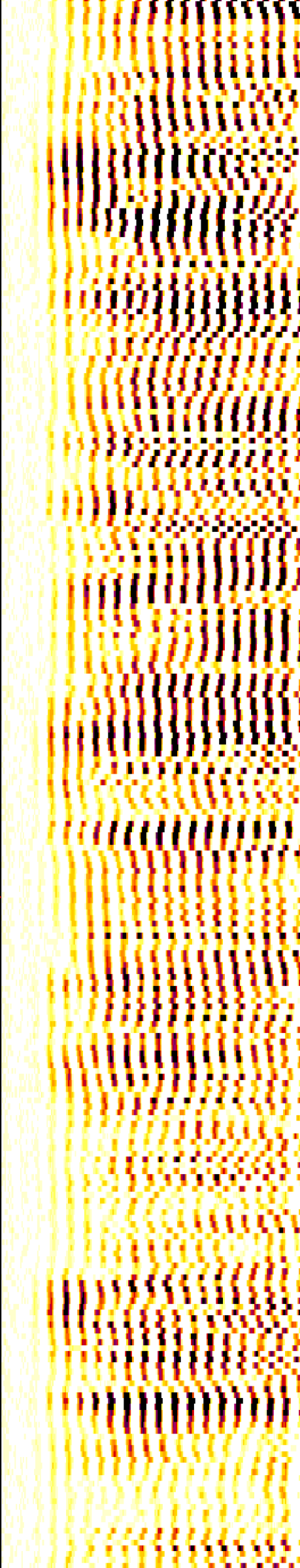
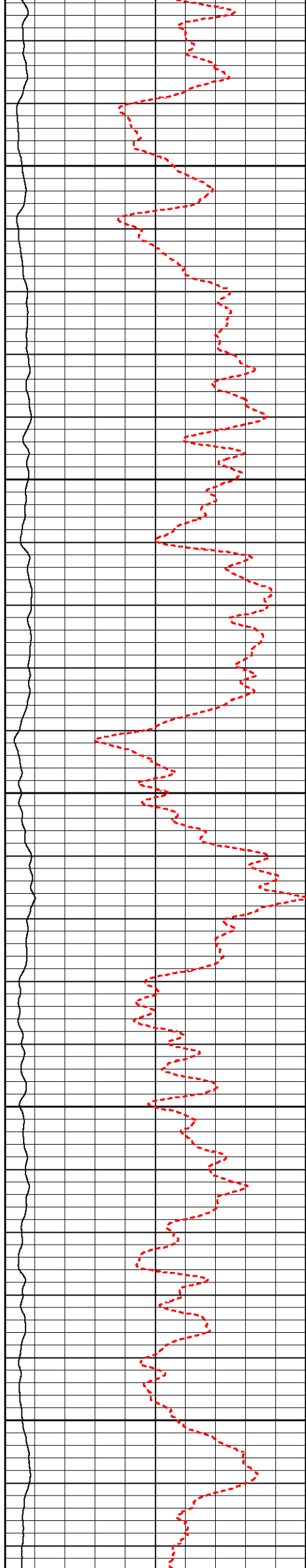


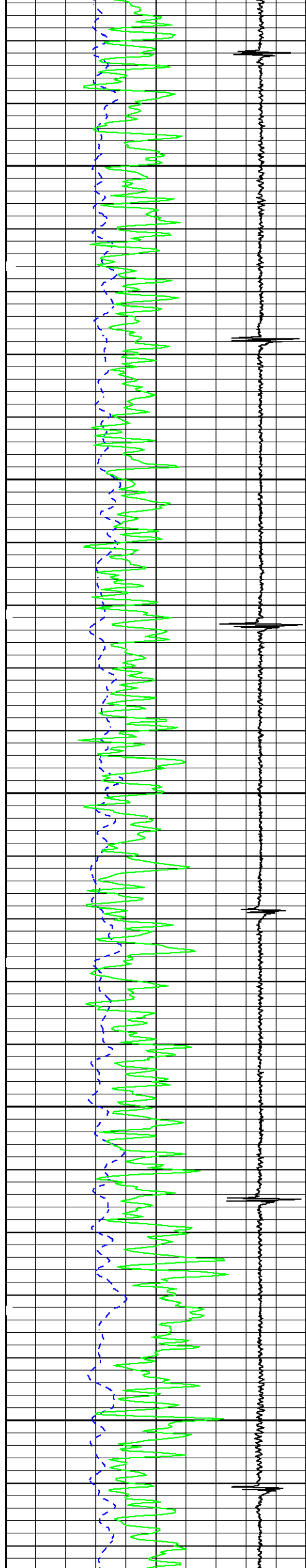


5900

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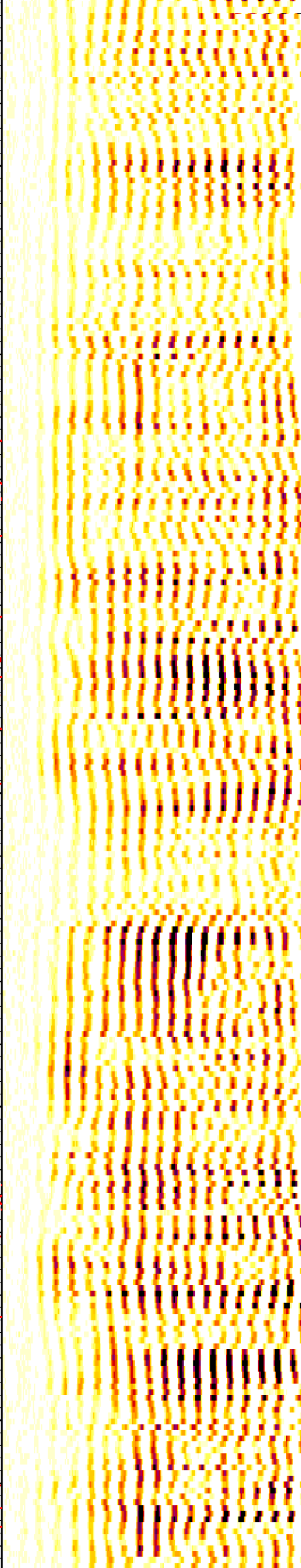
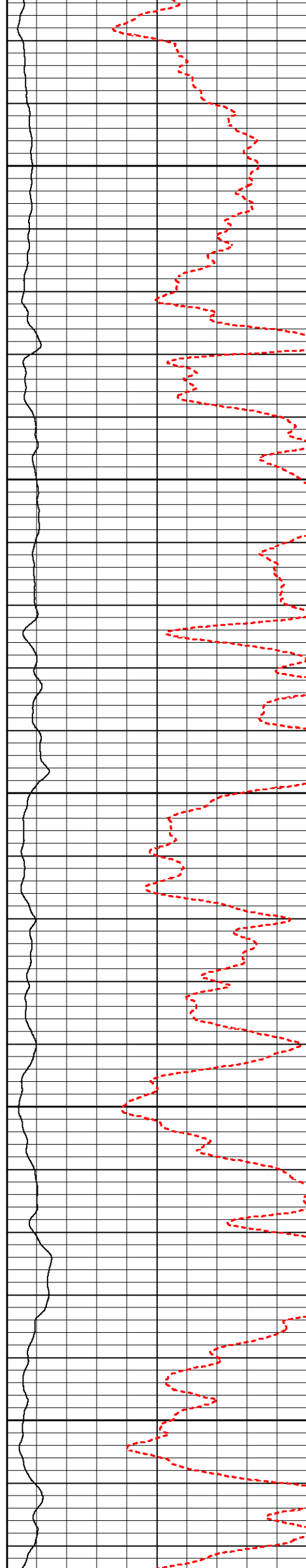
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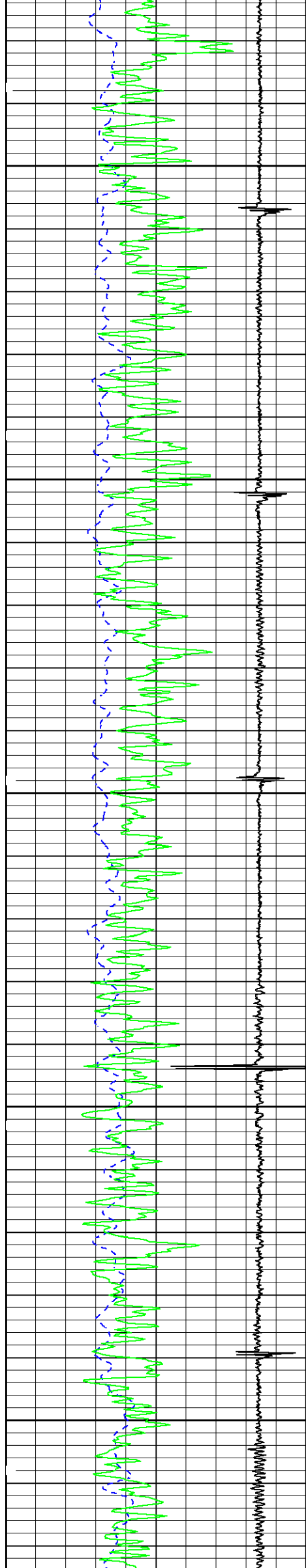




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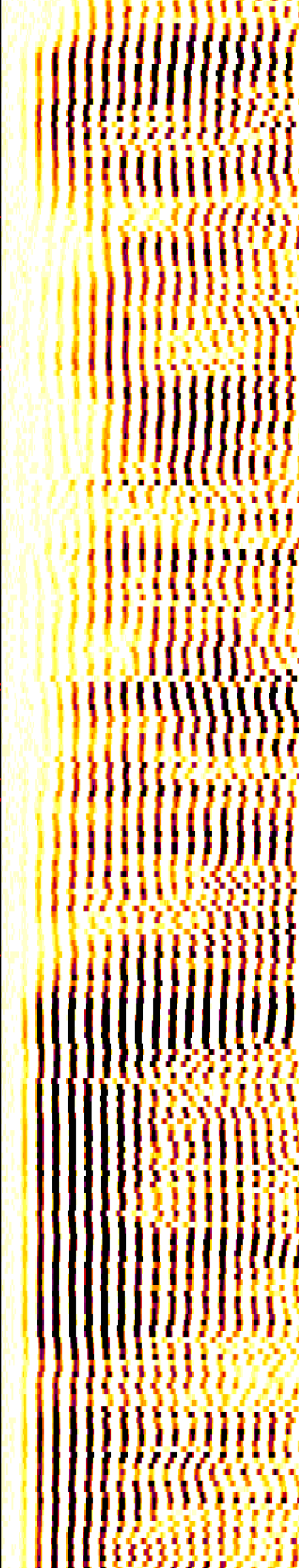
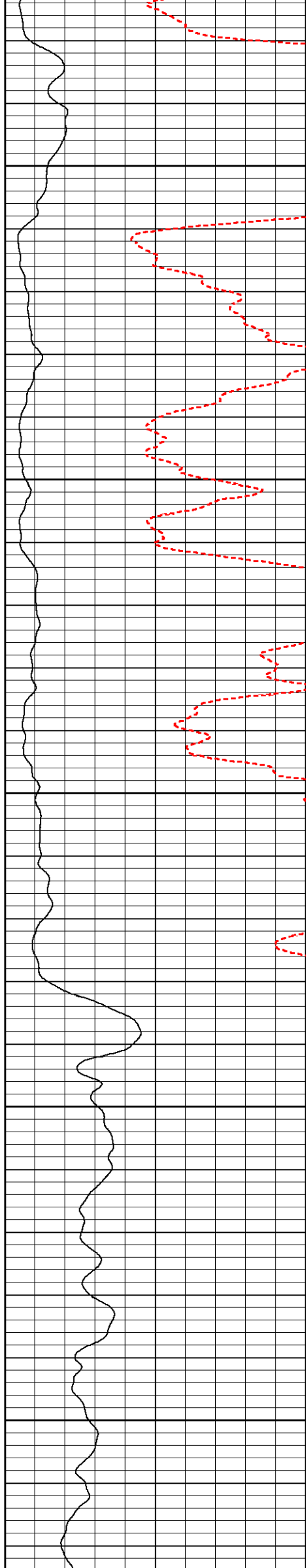




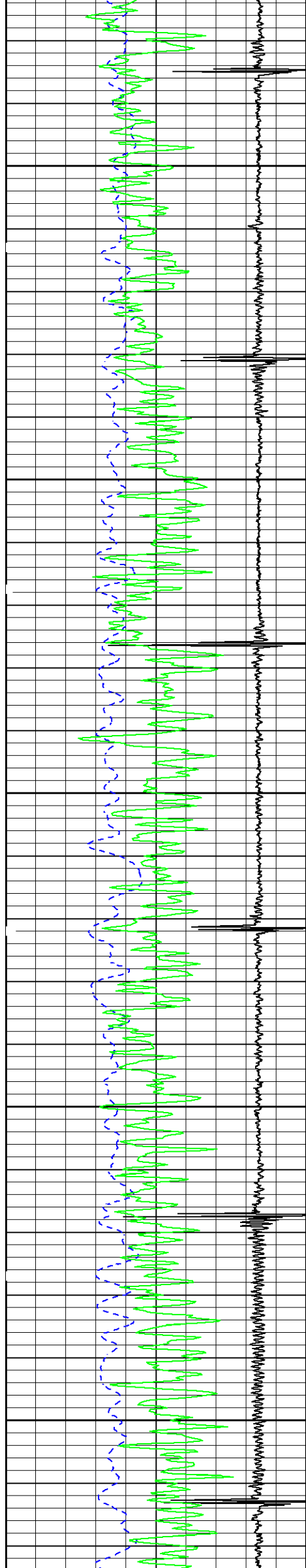
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6500

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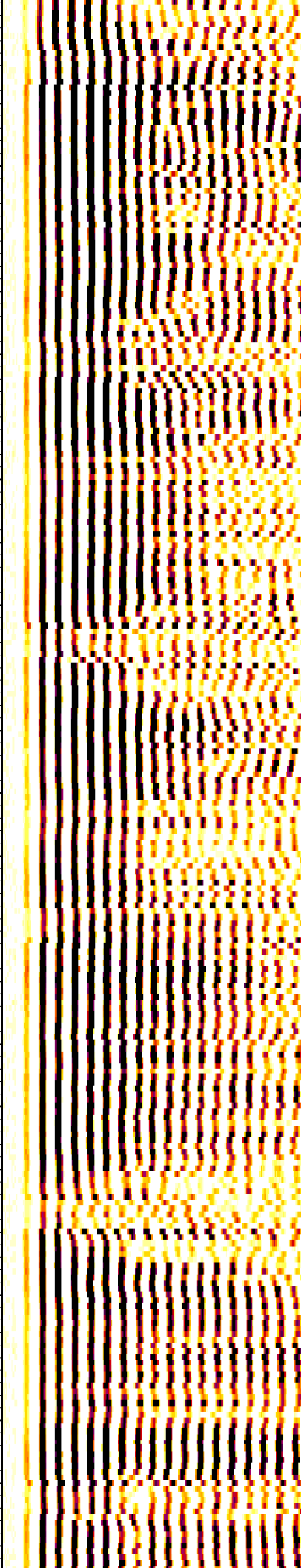
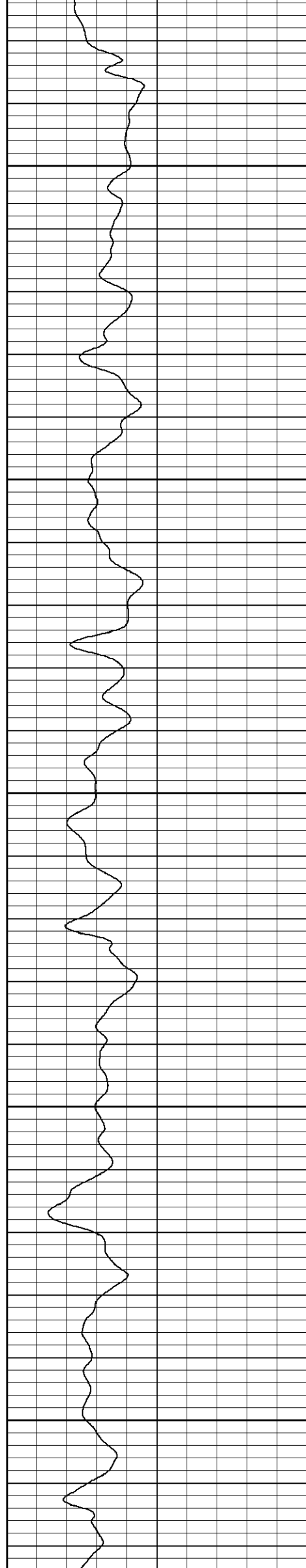


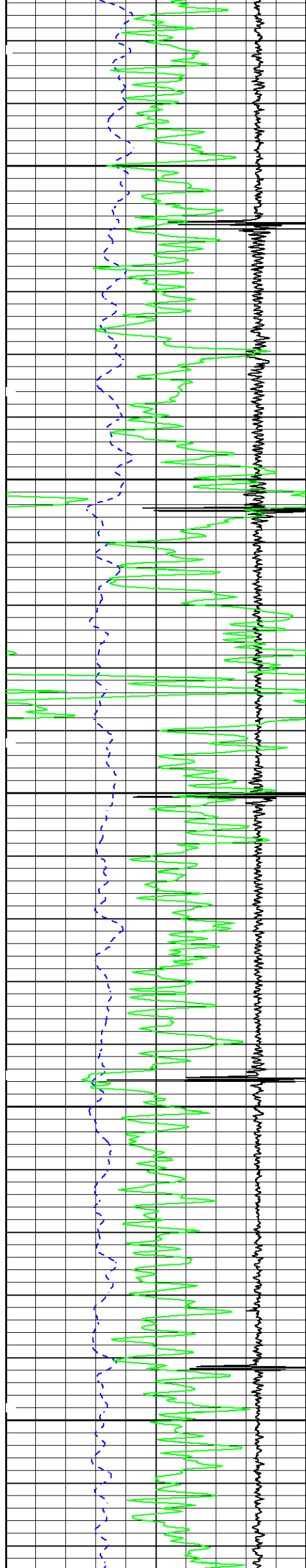




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6800

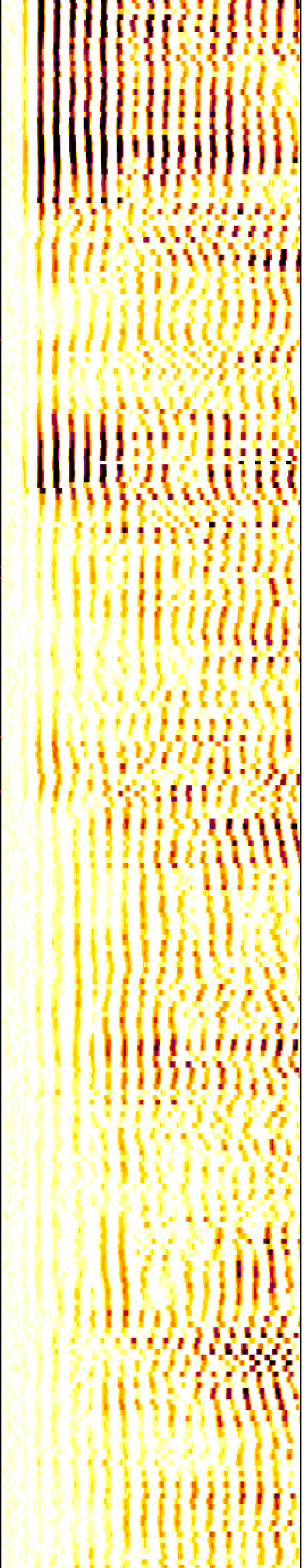
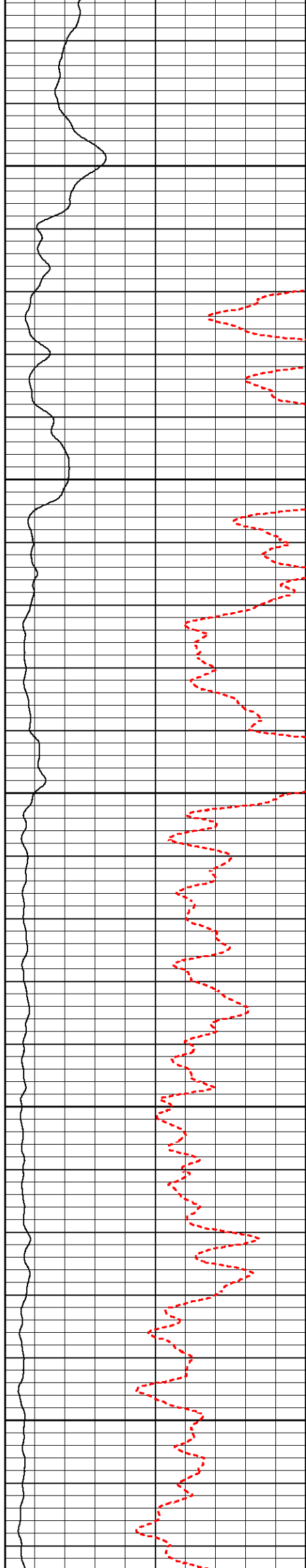


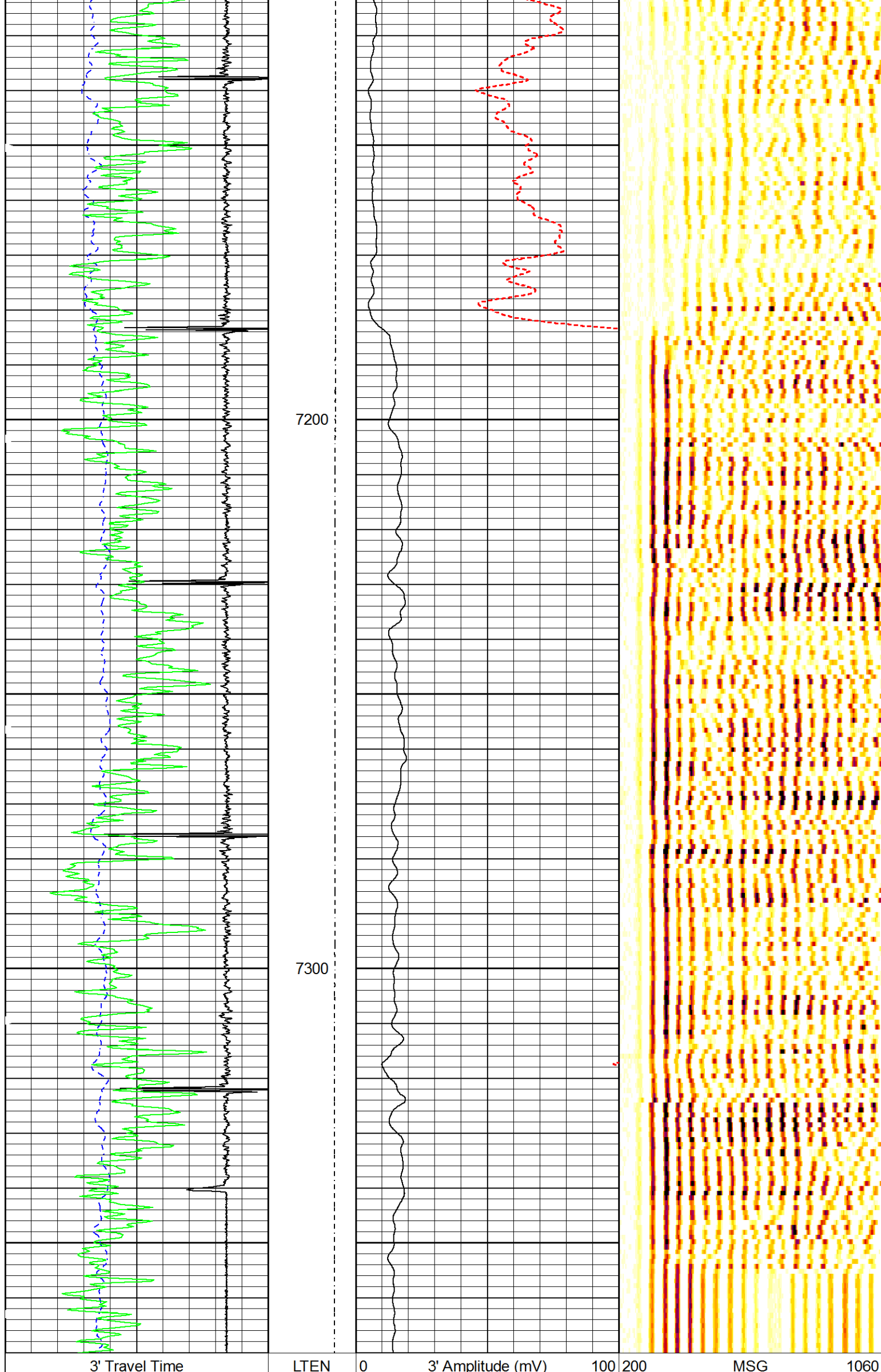


6900

7000

7100





CCL		0	(lb 1000)	0	3' Amplitude X5 (mV)	10	10	500
0	Gamma Ray (GAPI)	100	TEMP					
			(degF)					
		0	300					

MAIN PASS

HALLIBURTON

5" = 100'

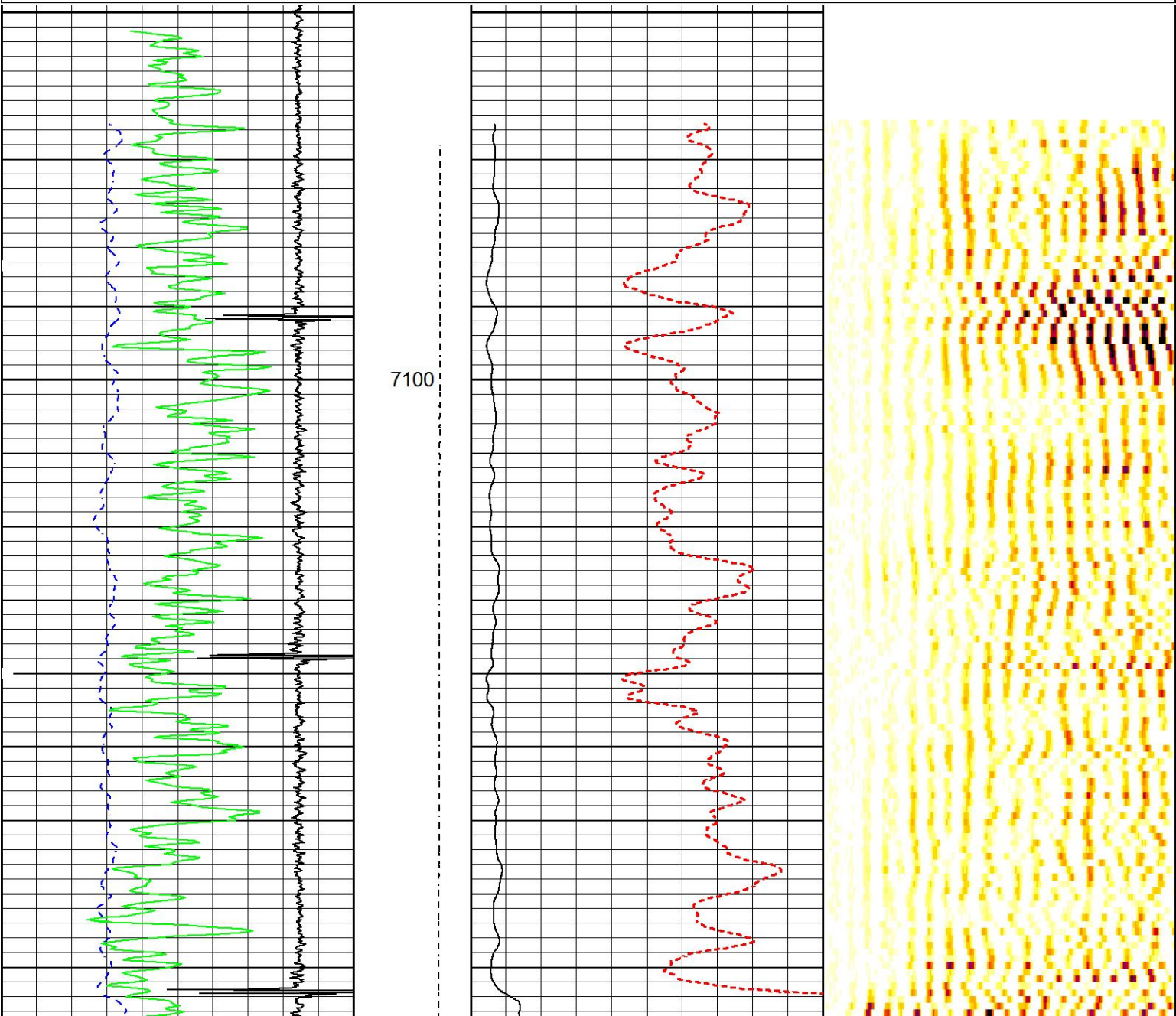
		REPEAT PASS						
		5" = 100'						

HALLIBURTON

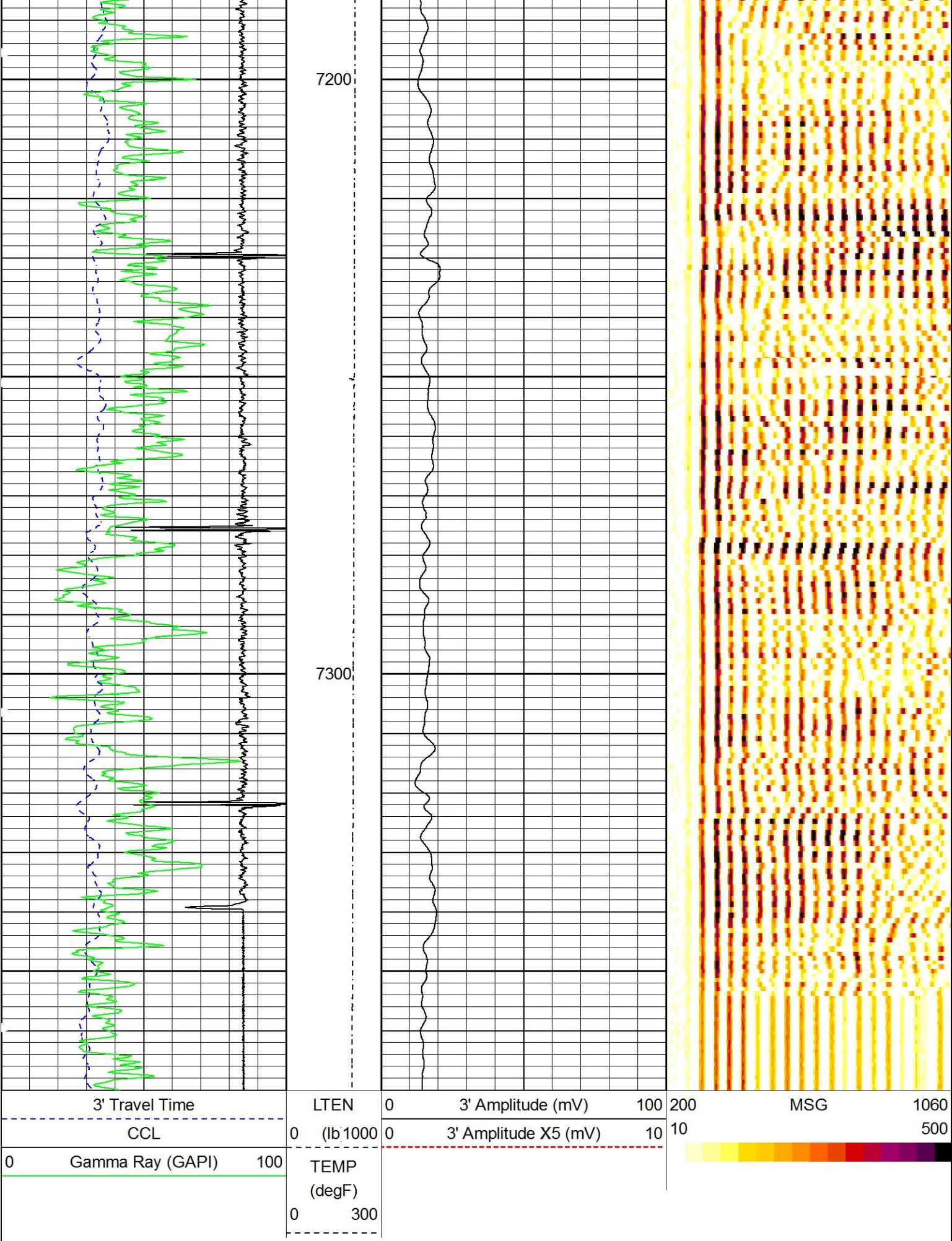
5" = 100'

Database File	meehl 24-2n.db
Dataset Pathname	CBL/DOWN2
Presentation Format	o_cbl
Dataset Creation	Sun Aug 23 11:08:54 2015
Charted by	Depth in Feet scaled 1:240

3' Travel Time	LTEN	0	3' Amplitude (mV)	100	200	MSG	1060
CCL	0	(lb 1000)	0	3' Amplitude X5 (mV)	10	10	500
0	Gamma Ray (GAPI)	100	TEMP				
			(degF)				
		0	300				







REPEAT PASS

HALLIBURTON

5" = 100'


Log Variables DatabaseD:\Warrior\_data\meehl 24-2n.db  
Dataset field/well/CBL/MAIN

Top - Bottom

DATE	TIME	USER	TYPE	LOCATION	DEPTH	WELL	CASE
------	------	------	------	----------	-------	------	------

BHTEMP_Src	MSGGN	USERFTT usec/ft	ZREF MRayl	CASEWGHT lb/ft	SRFTTEMP degF	MudWgt lb/gal	CASETHCK in
1	1	0	1.7	13.5	0	8.33	0.29
CASEOD in 4.5	PERFS  0	TDEPTH ft 0	BOTTEMP degF 100	BITSIZE in 6.125			

Calibration Report		
Database File	meehl 24-2n.db	
Dataset Pathname	CBL/MAIN	
Dataset Creation	Sun Aug 23 11:19:29 2015	
Cement Bond Log Shop Calibration Report		
Serial-Model:	12091451-A	
Calibration Performed:	Sun Aug 23 10:47:35 2015	
Free Pipe Calibration		
TT	Measured	Units
Amplitude	241.9	usec
Log Base Line	571.1	mV
	9.0	mV
Calibration References and Gain		
Name	Value	Units
Pipe O.D.	4.500	in
Pipe Weight	13.5	lb/ft
Pipe Ref. Amp.	81.2	mV
Amp. Gain	0.144	
Gamma Ray Calibration Report		
Serial Number:	11577197	
Tool Model:	002	
Performed:	Mon Jul 27 09:57:56 2015	
Calibrator Value:	238.0	GAPI
Background Reading:	21.6	cps
Calibrator Reading:	228.3	cps
Sensitivity:	1.1516	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	20.87		TTTCU-002 (11577197) Through Tubing Telemetry Cartridge - Ultrawire	7.65	1.69	100.00
GR	18.61					

			XHU-003 (10004464) Crossover Halliburton 1553 to Ultrawire	1.58	1.69	7.00
Temp	8.89		CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
TT3FT	6.64					
AMP3FT	6.64					
WVF5FT	5.68					
TLINITCNT	2.16					
CblCTT	2.16					
CblCCsgWgt	2.16					
CblCCsgOD	2.16					
CblCAmp	2.16					
CblBLine	2.16					
CblTTThresh	2.16					
CblAGate	2.16					
CblLWvCnt	2.16					
CblCStat	2.16					
CblIVolt	2.16					
CblITemp	2.16		HCBLM-A (12091451) Halliburton HCBLM Tool	9.38	2.75	116.00
CblSeqNum	2.16					
CblTStat	2.16					
WVF3FT	2.16					
HVOLTX	0.00					
ITEMPX	0.00					
TSTAMP	0.00					
XHUCUR4	0.00					
XHUCUR3	0.00					
XHUCUR2	0.00					
XHUCUR1	0.00					
XHUSTAT	0.00					
XHUTEMP	0.00					
XHUERR2	0.00					
XHUERR1	0.00					
LOCTIM	0.00	CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00	
UTCTIM	0.00					
LLMTEN	0.00					
Dataset: meehl 24-2n.db: field/well/CBL/MAIN Total length: 22.94 ft Total weight: 273.00 lb O.D.: 3.13 in						

Company	VERDAD OIL & GAS CORP			
Well	MEEHL 01N-65W-24-2N			
Field	WATTENBERG			
County	WELD	State	CO	
HALLIBURTON		CEMENT BOND LOG		