

HALLIBURTON										CEMENT BOND LOG																			
Company					SYNERGY RESOURCES CORP.					Company					SYNERGY RESOURCES CORP.														
Well					FAGERBERG 11N-7A-M					Well					FAGERBERG 11N-7A-M														
Field					WATTENBERG					Field					WATTENBERG														
County					WELD State CO					County					WELD State CO														
Permanent Datum Log Measured From Drilling Measured From Date @ Time Logged Run No. Depth - Driller Depth - Logger Bottom - Logged Interval Top - Log Interval Max. Recorded Temp. CEMENTING DATA Date / Time Cemented Primary / Squeeze Expected Compressive Strength Cement Volume Cement Type / Weight Formulation Mud Type / Mud Wgt.										Sec: 12 Twp: 6N Rge: 66W										Other Services									
										GROUND LEVEL Elevation 4799'										LAT: 40.499115 LONG: -104.734124 NONE									
										KB , 20 Ft. above perm. datum																			
										KB																			
Type Fluid in Hole										FRESH WATER										Elevation									
Density of Fluid										8.5 PPG										K.B. 4819' D.F. 4819' G.L. 4799'									
Fluid Level										85'																			
Cement Top Est. Logged										1090'																			
Equipment / Location										11875120 / BRIGHTON																			
Recorded by										E. FRIEDLAND																			
Witnessed by										R. PEVLER																			
Protection String										Production String										Liner									
String																													
psi@ hrs										psi@ hrs										psi@ hrs									
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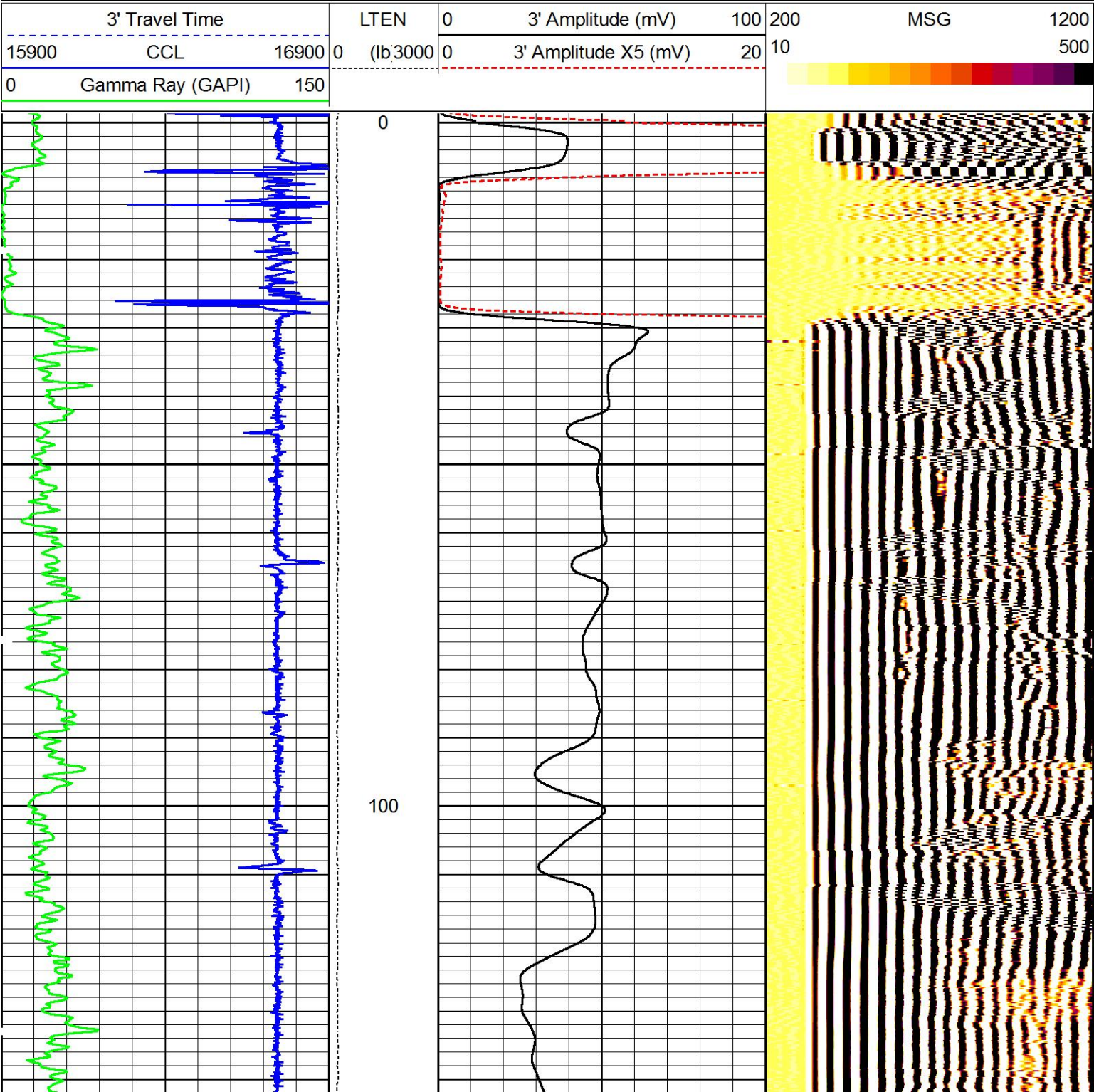
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	GAMMA		AMPLITUDE					
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
	0	150	0	100				
DIRECTIONAL INFORMATION								
Maximum Deviation			deg. @		KOP			

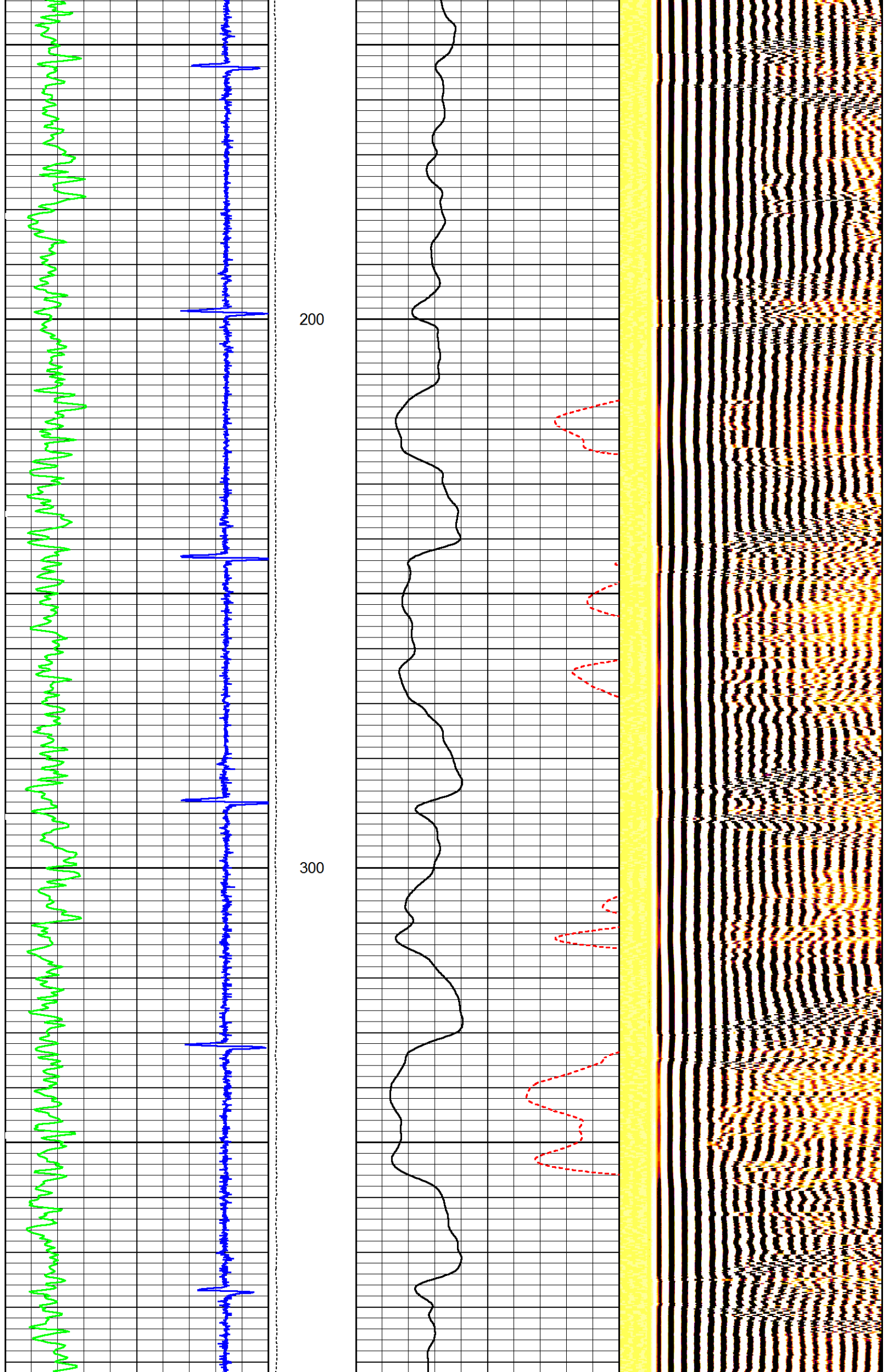
HALLIBURTON

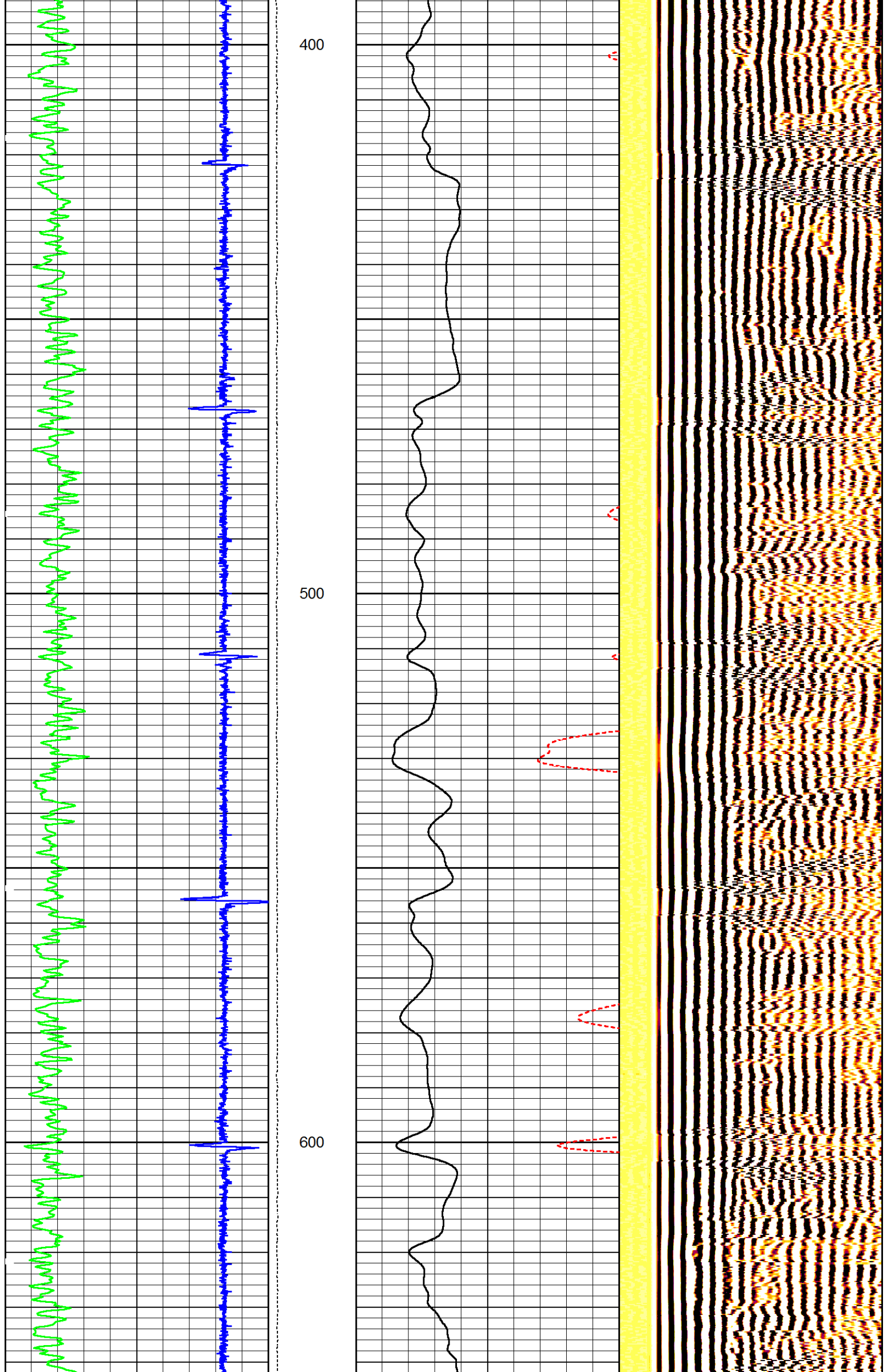
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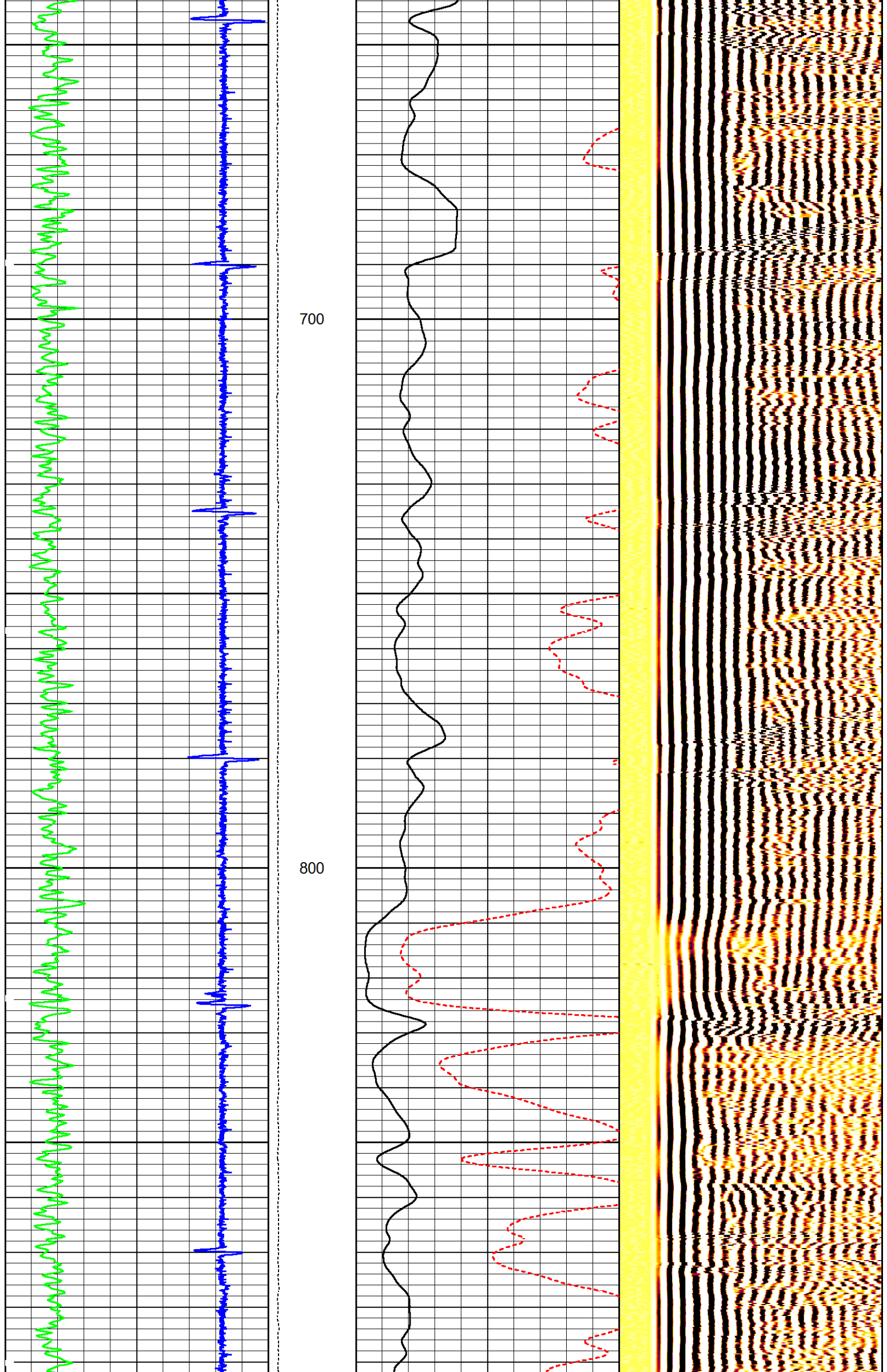
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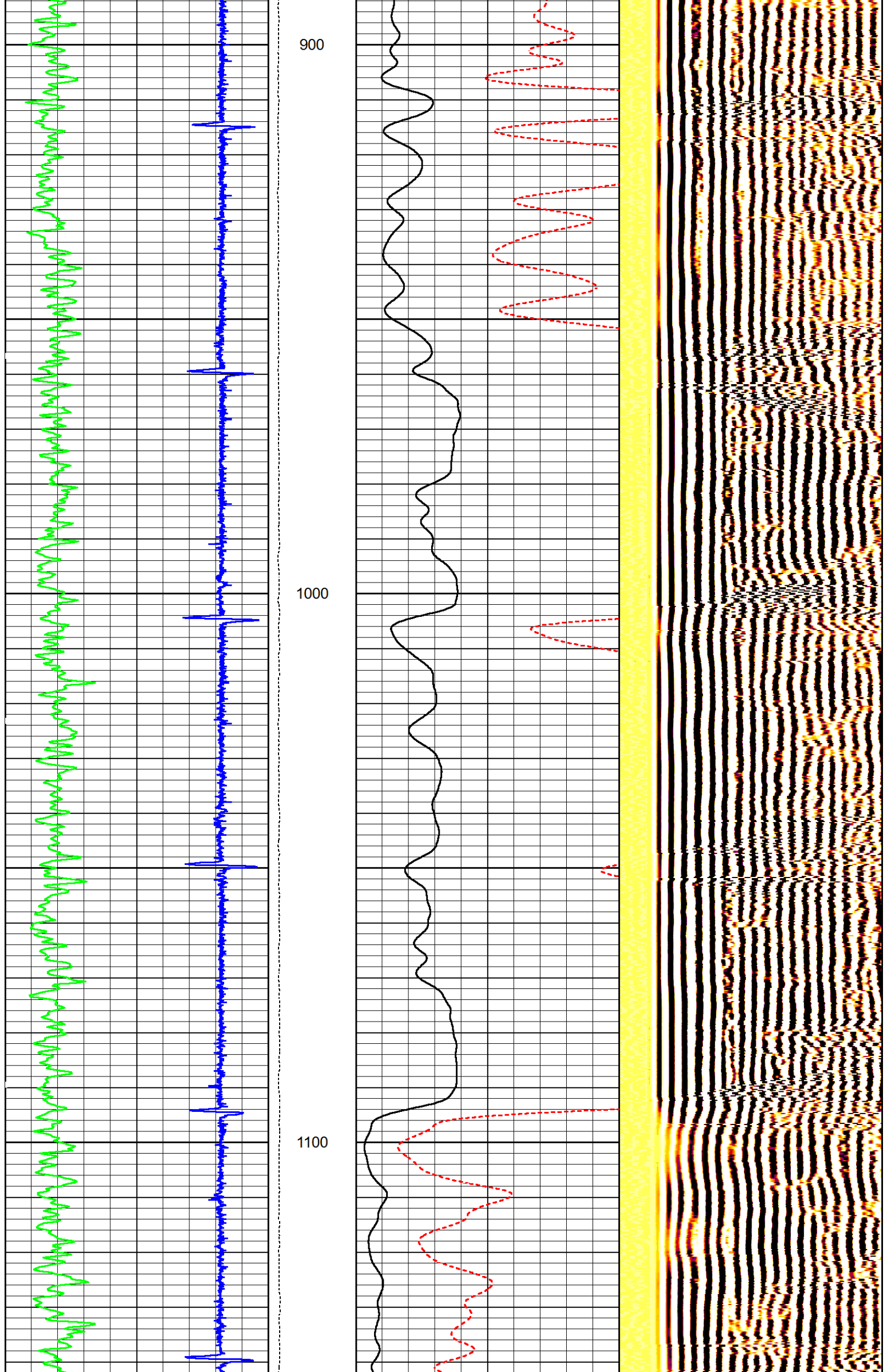
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Dataset Pathname	BP/main2
Presentation Format	1 synergy cbl
Dataset Creation	Thu Aug 04 04:20:48 2016
Charted by	Depth in Feet scaled 1:240

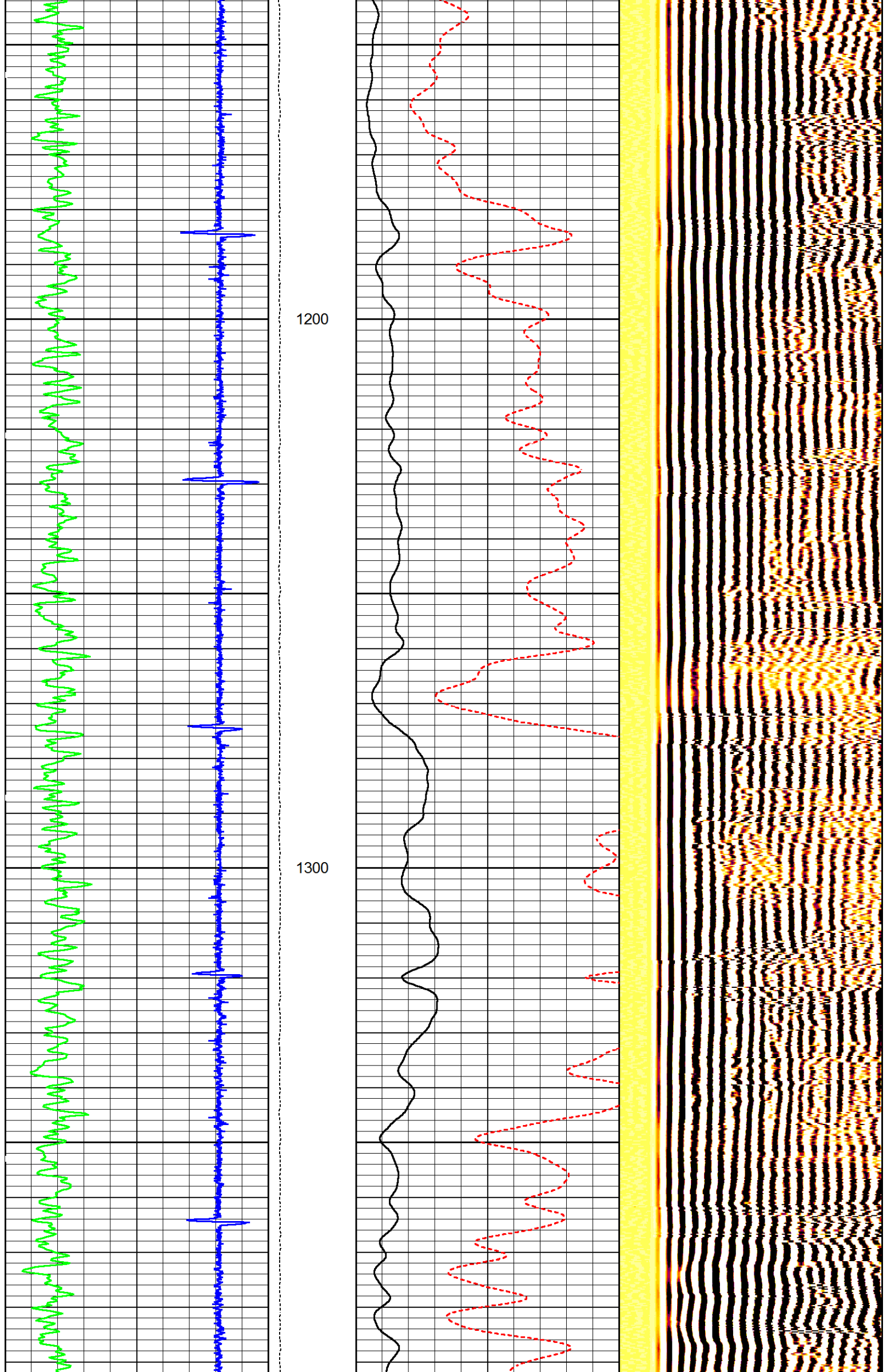


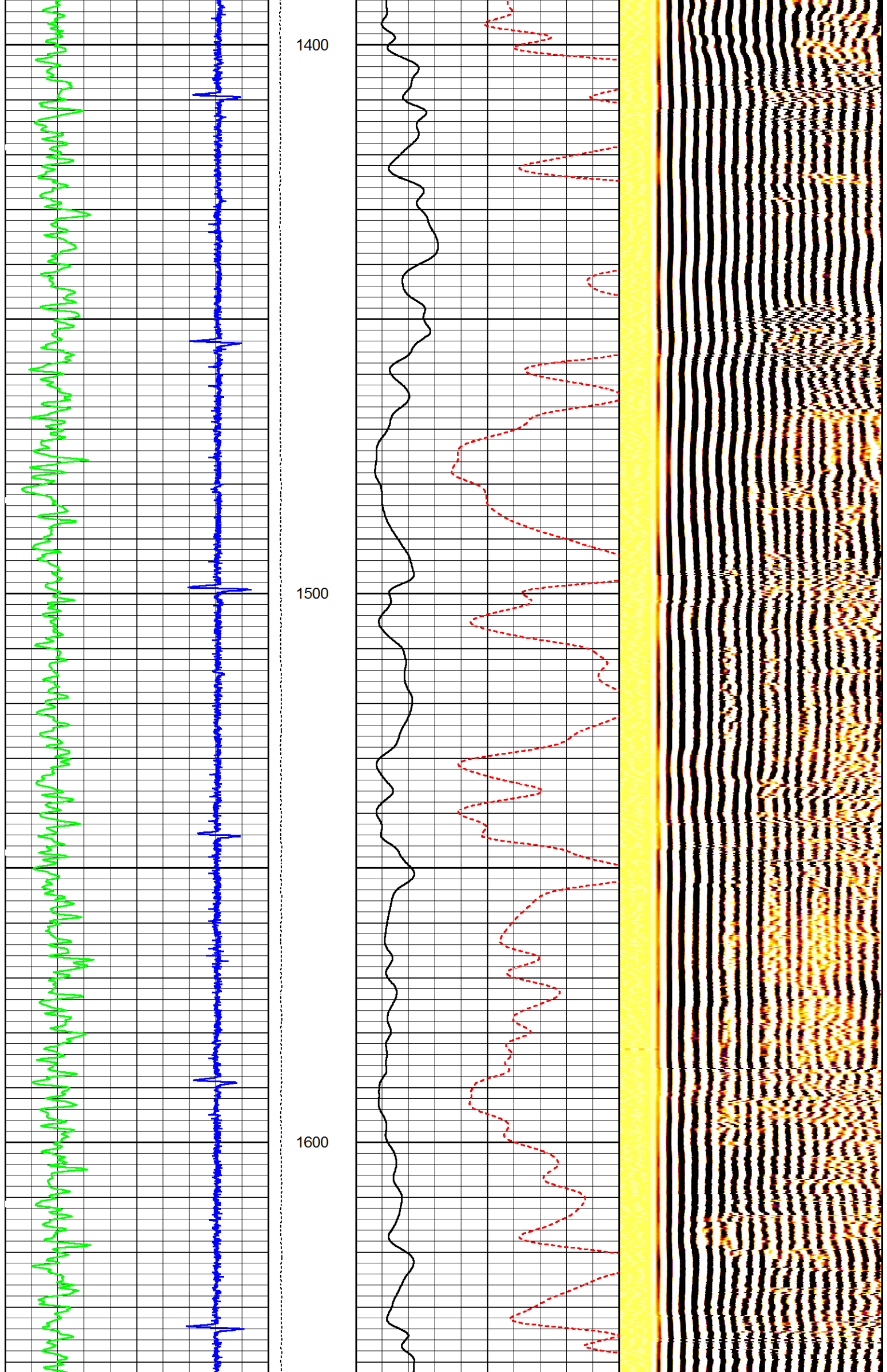


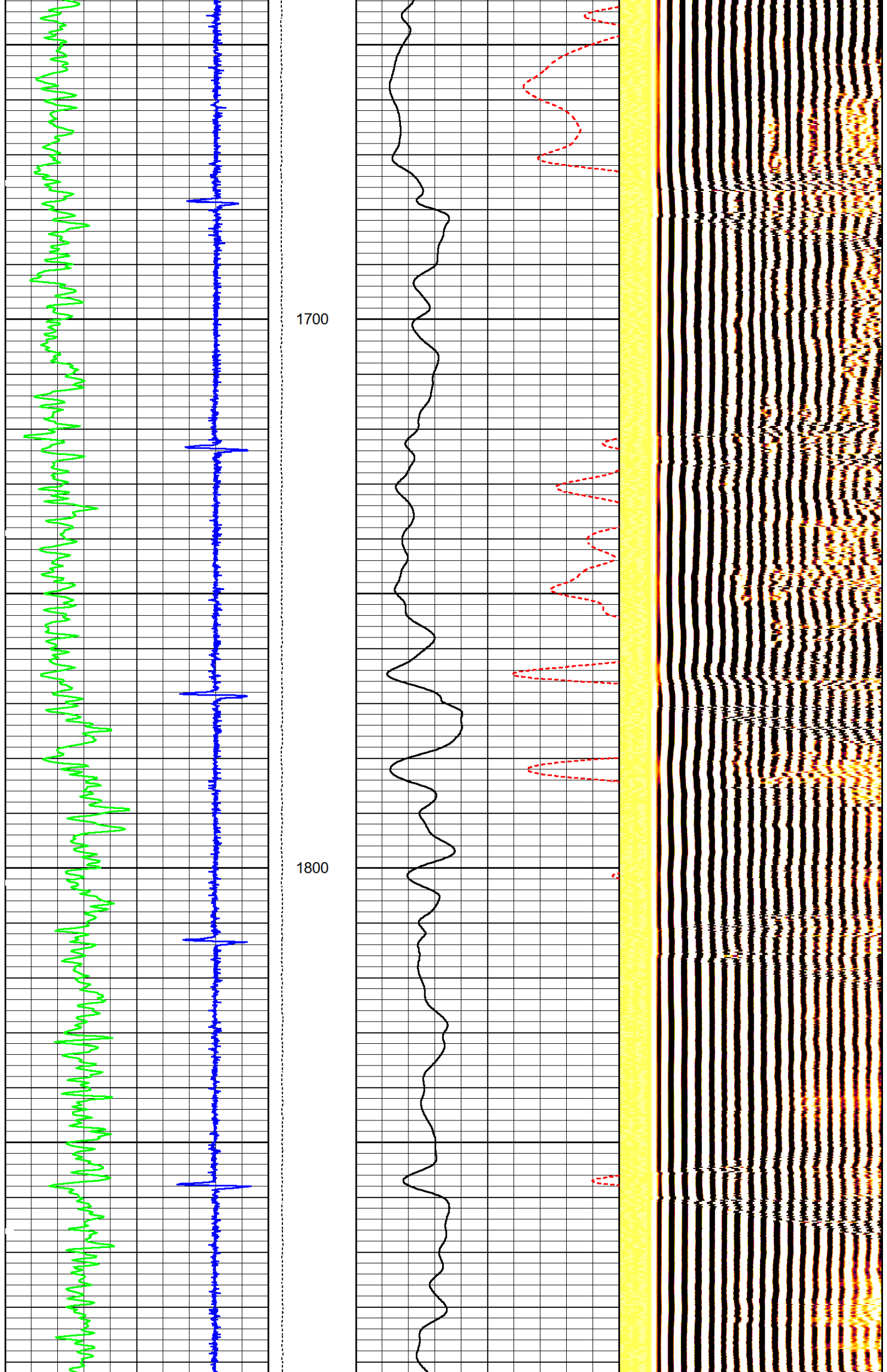


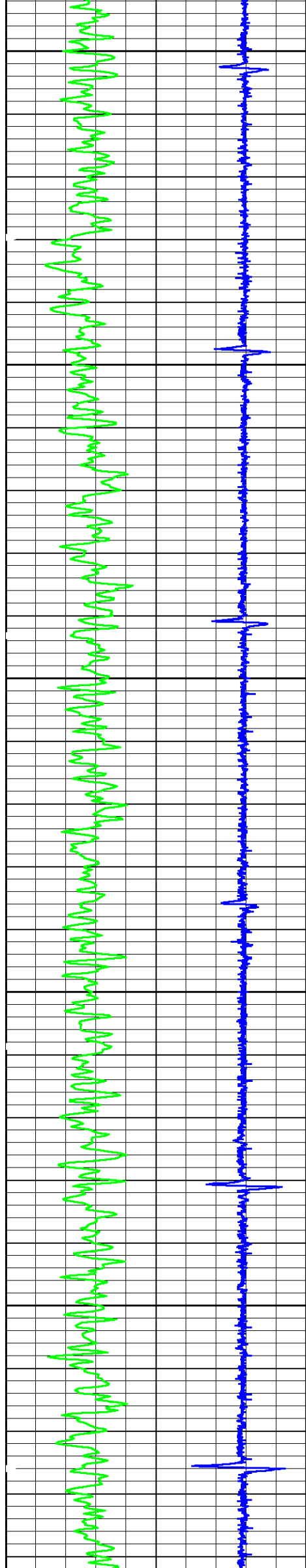








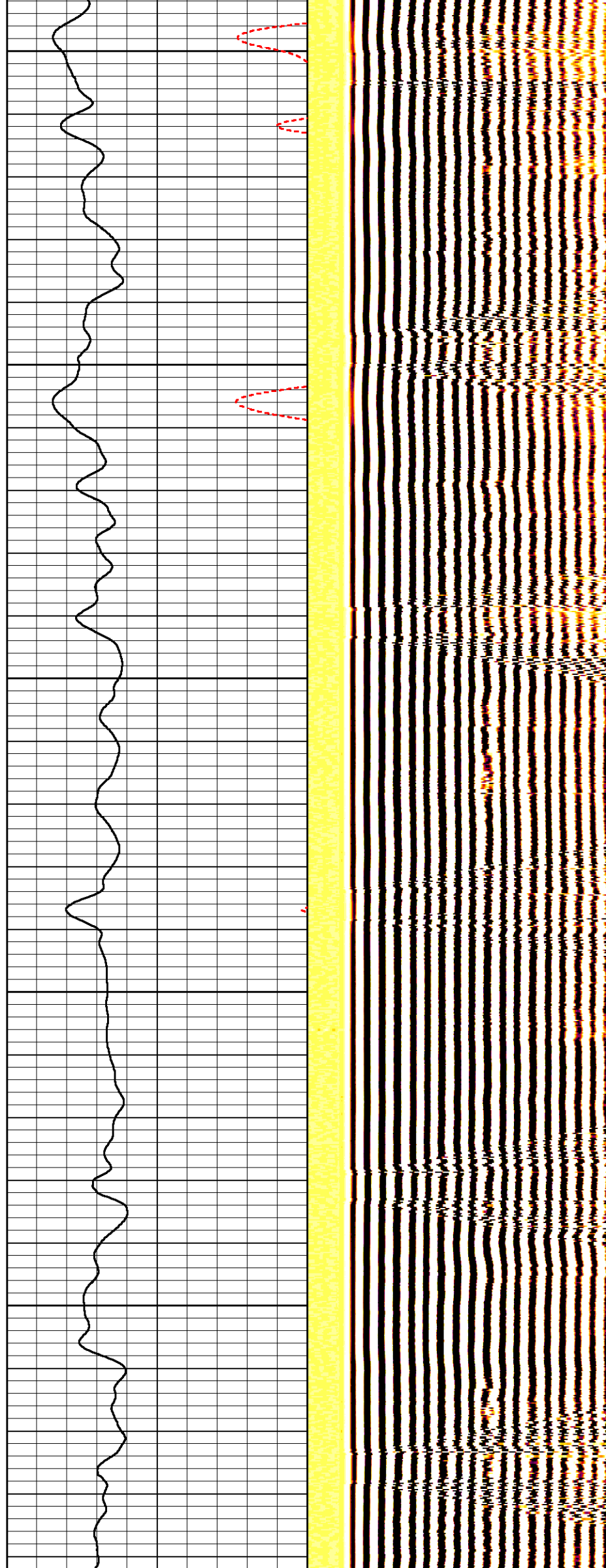


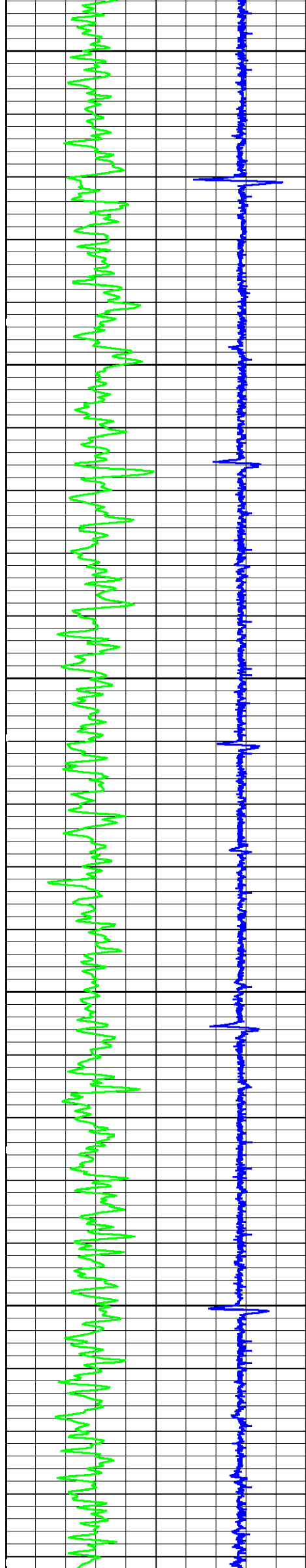


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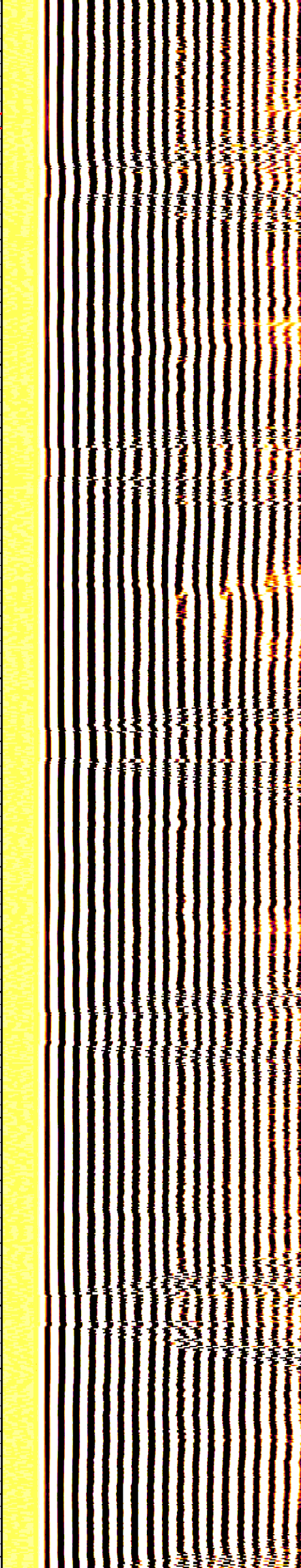
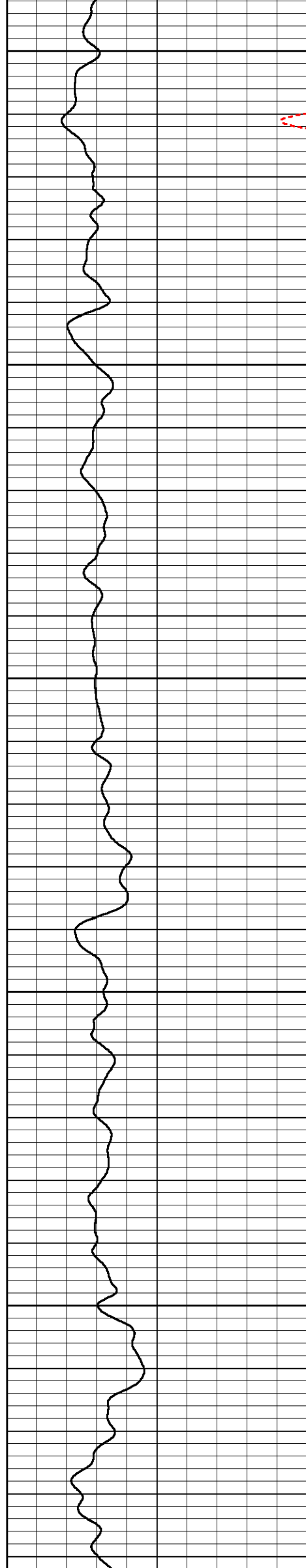
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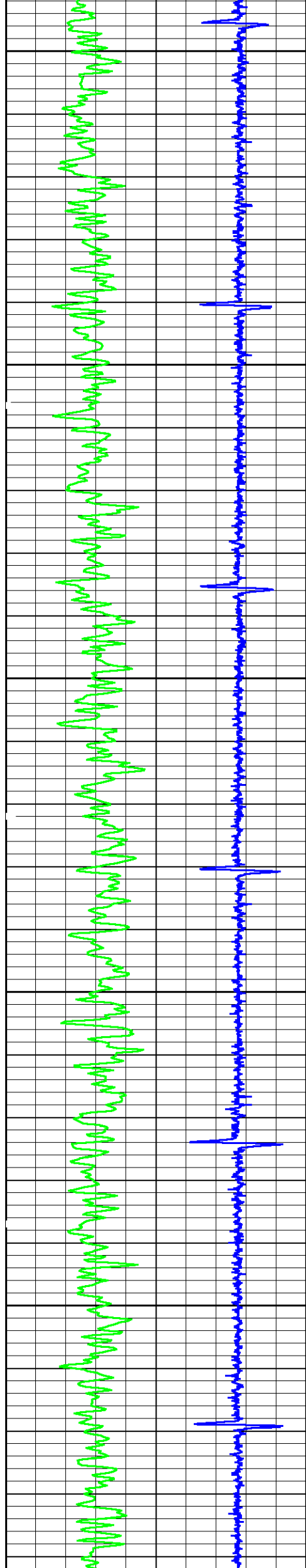




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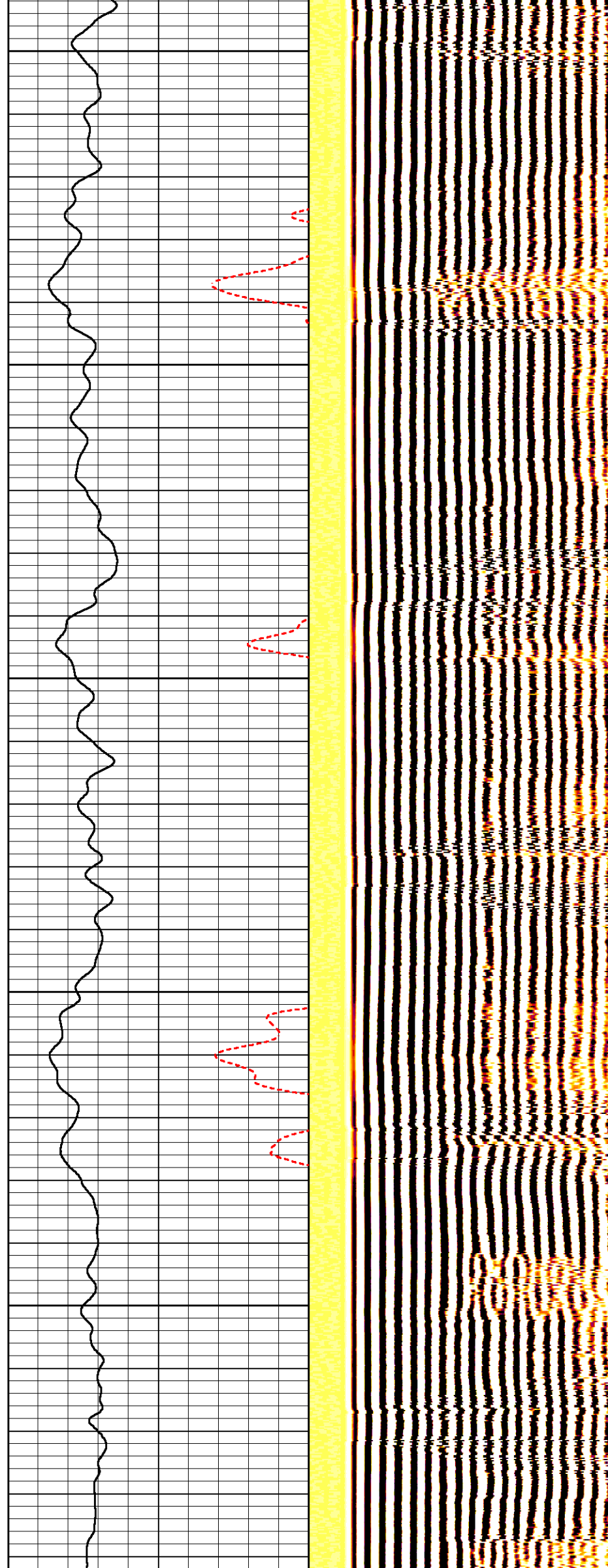


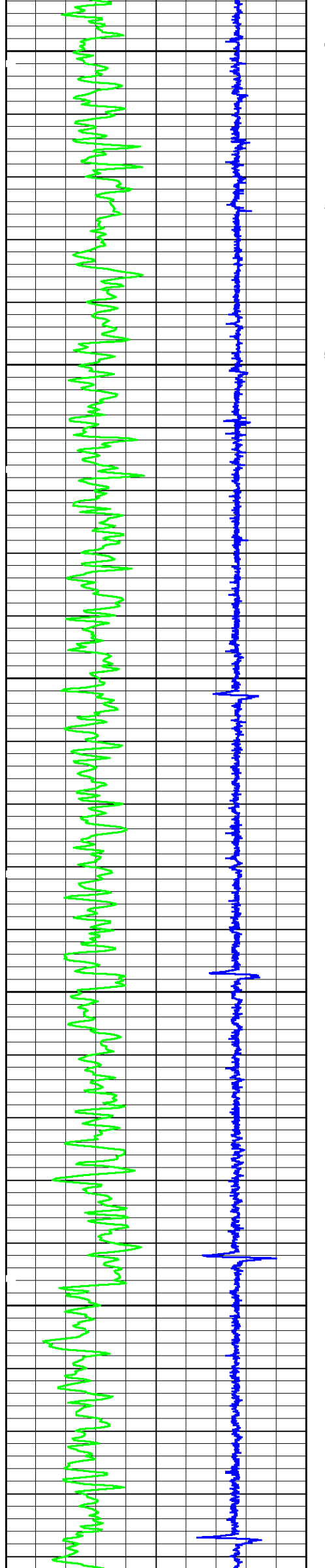


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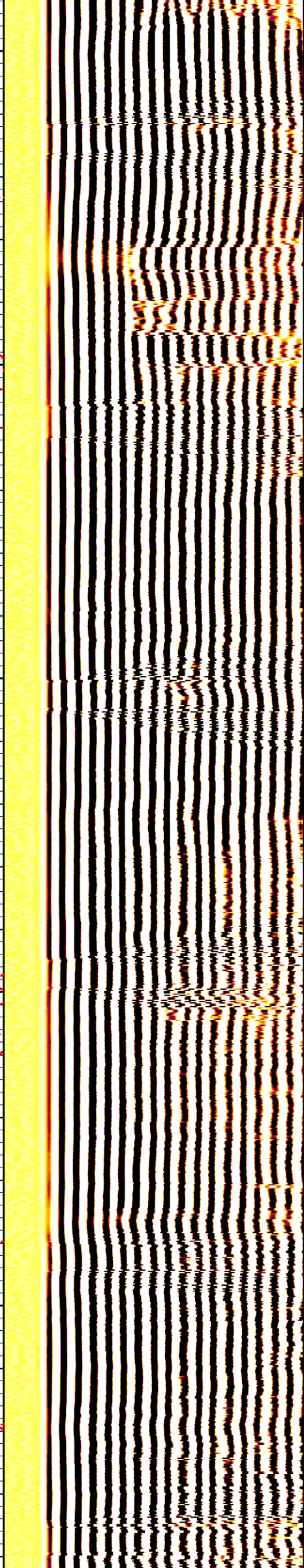
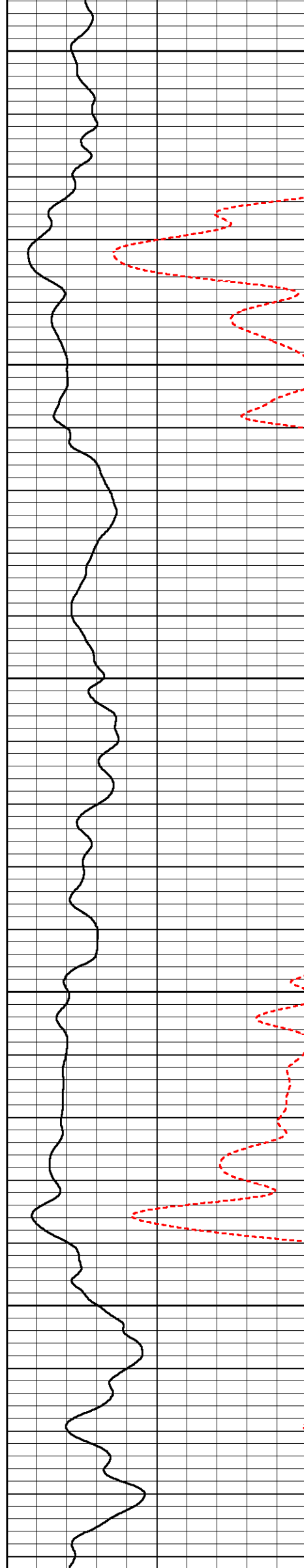
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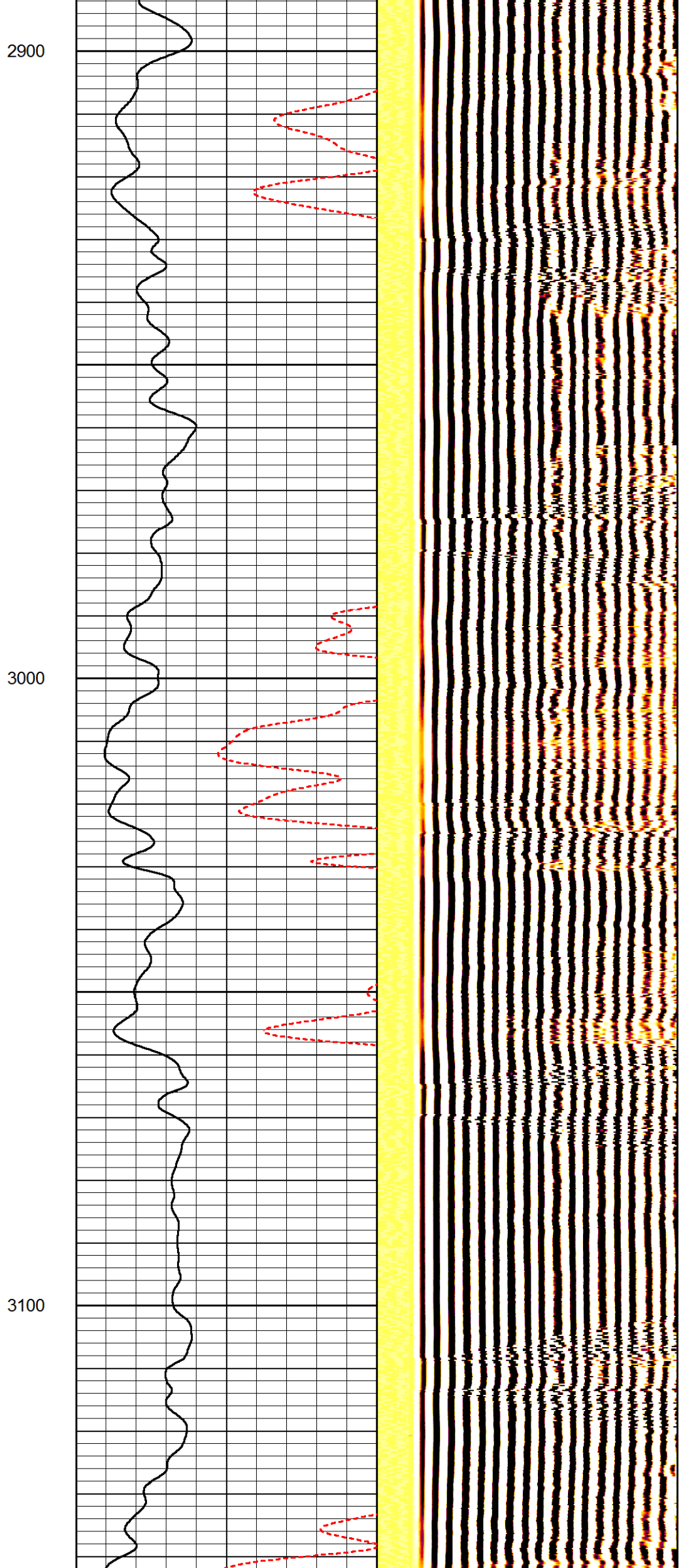
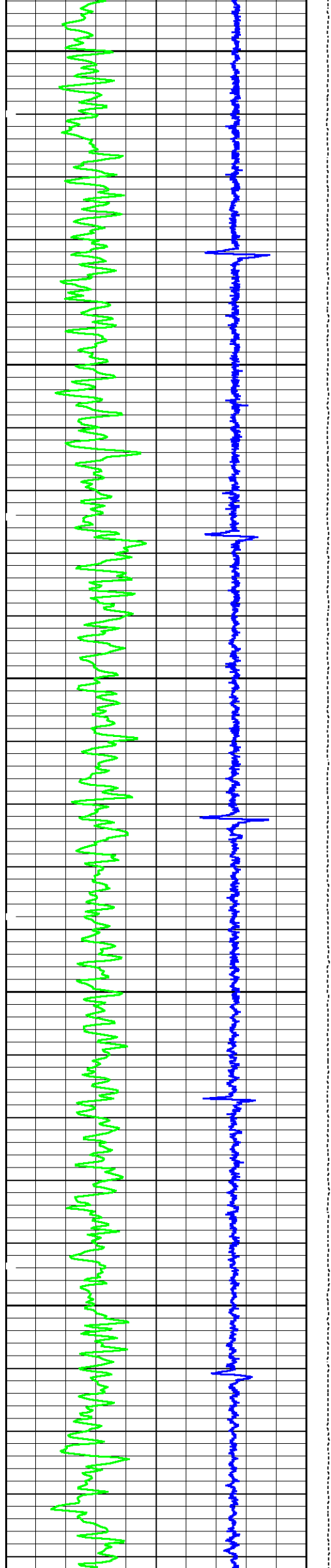


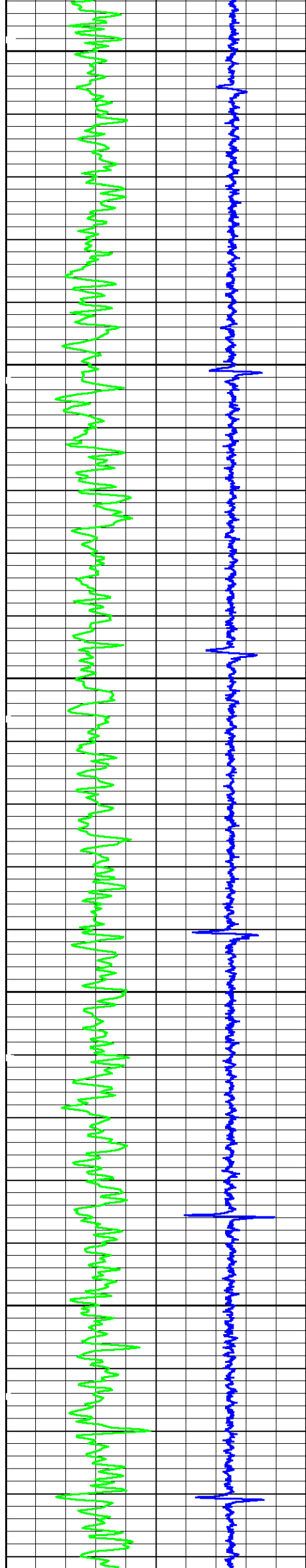


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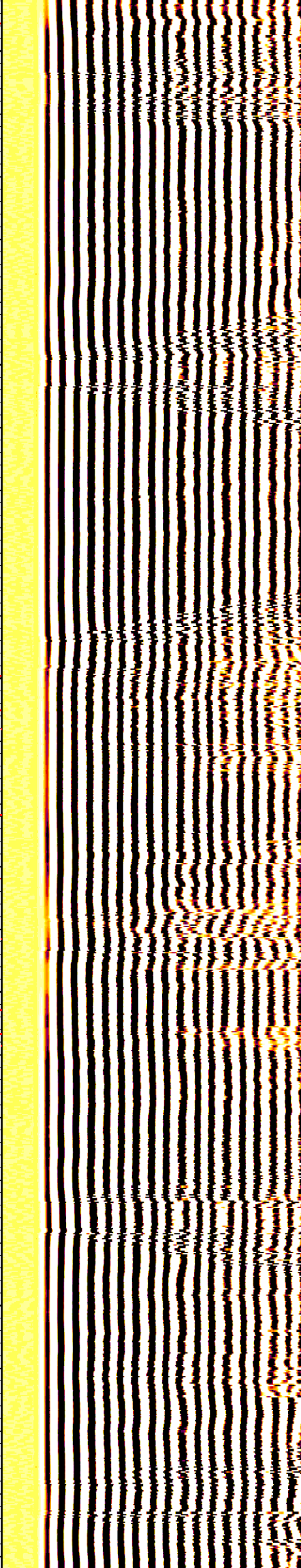
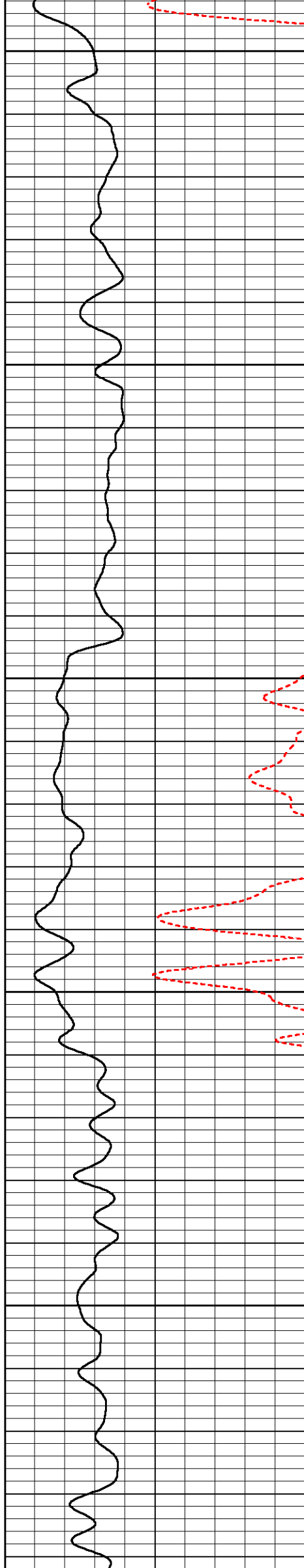


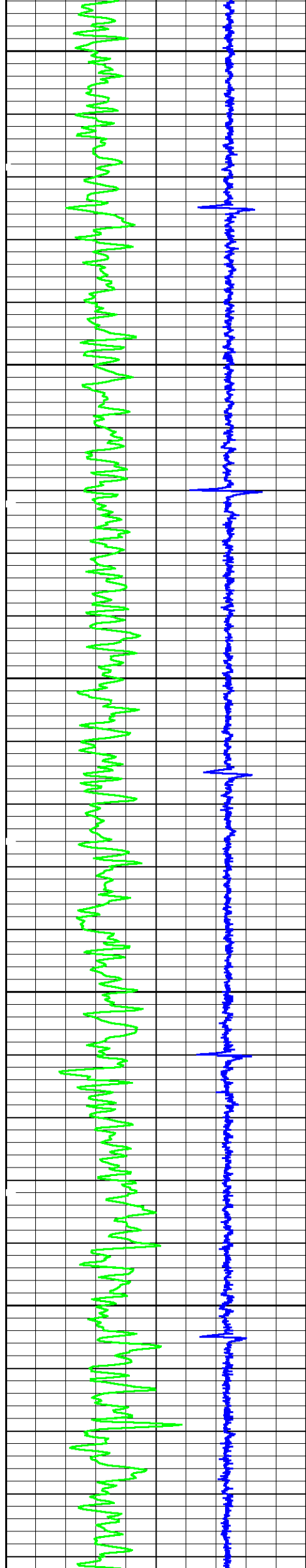




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3300

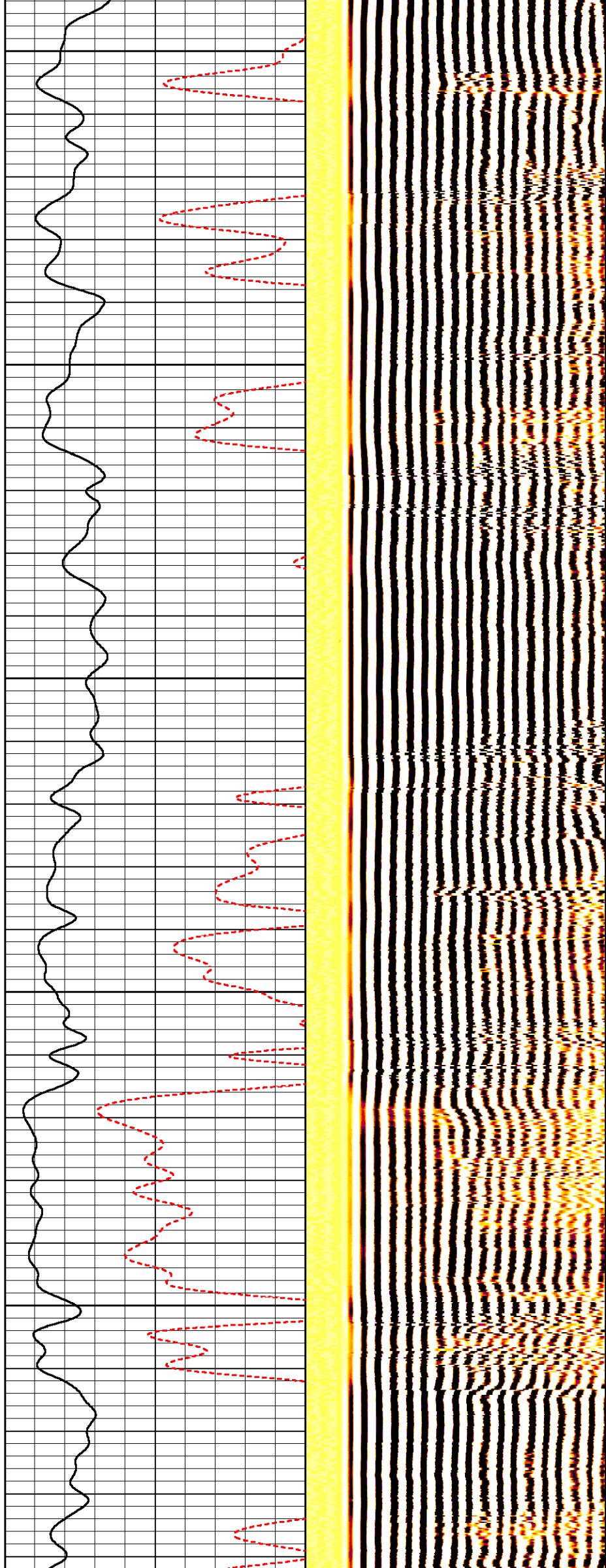


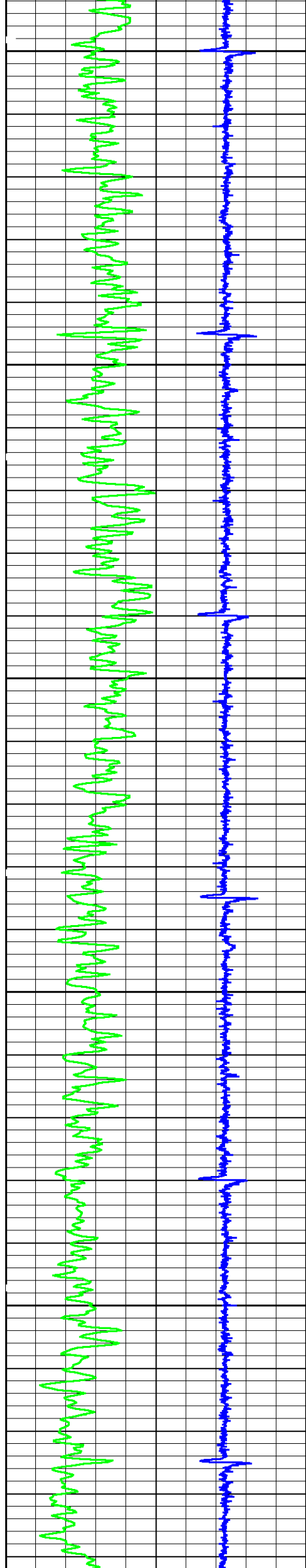


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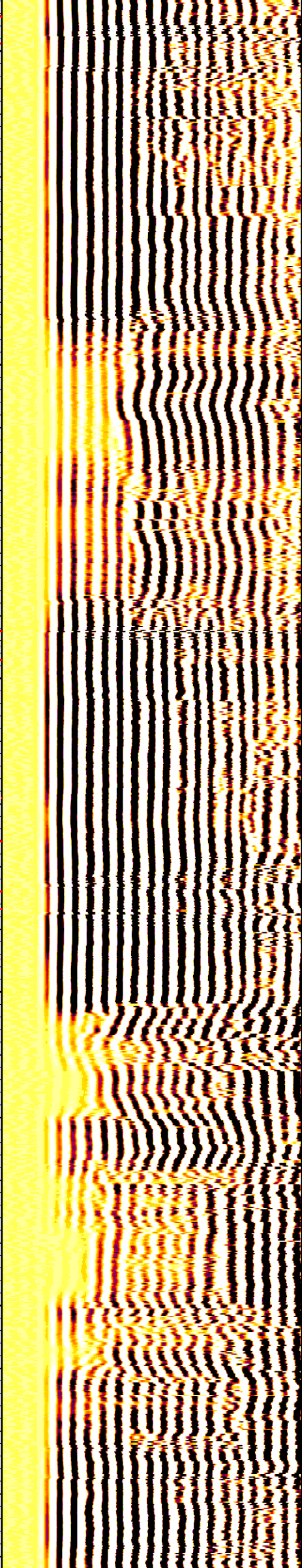
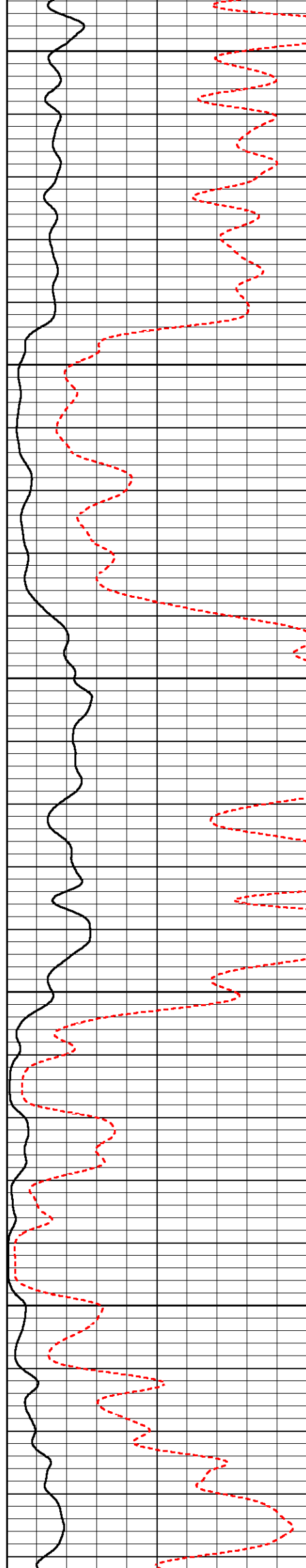
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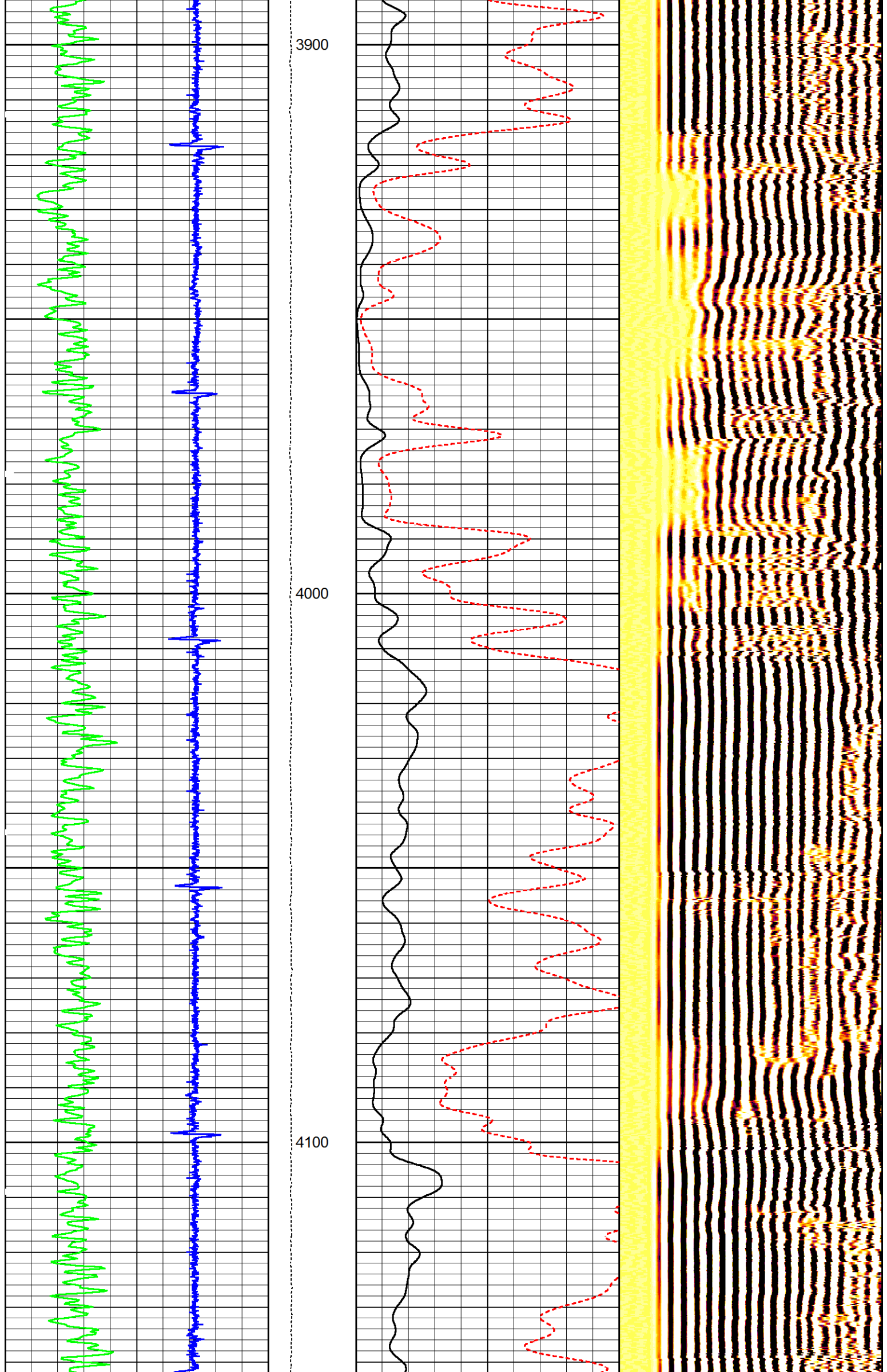


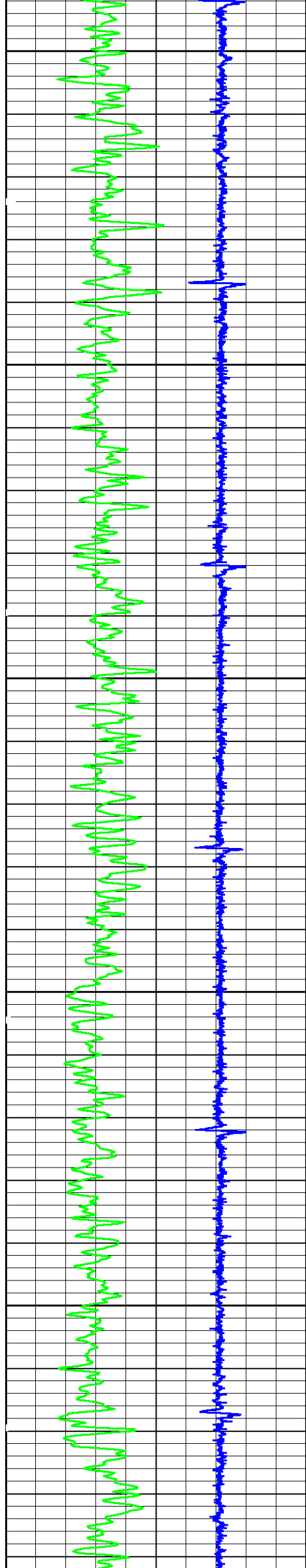


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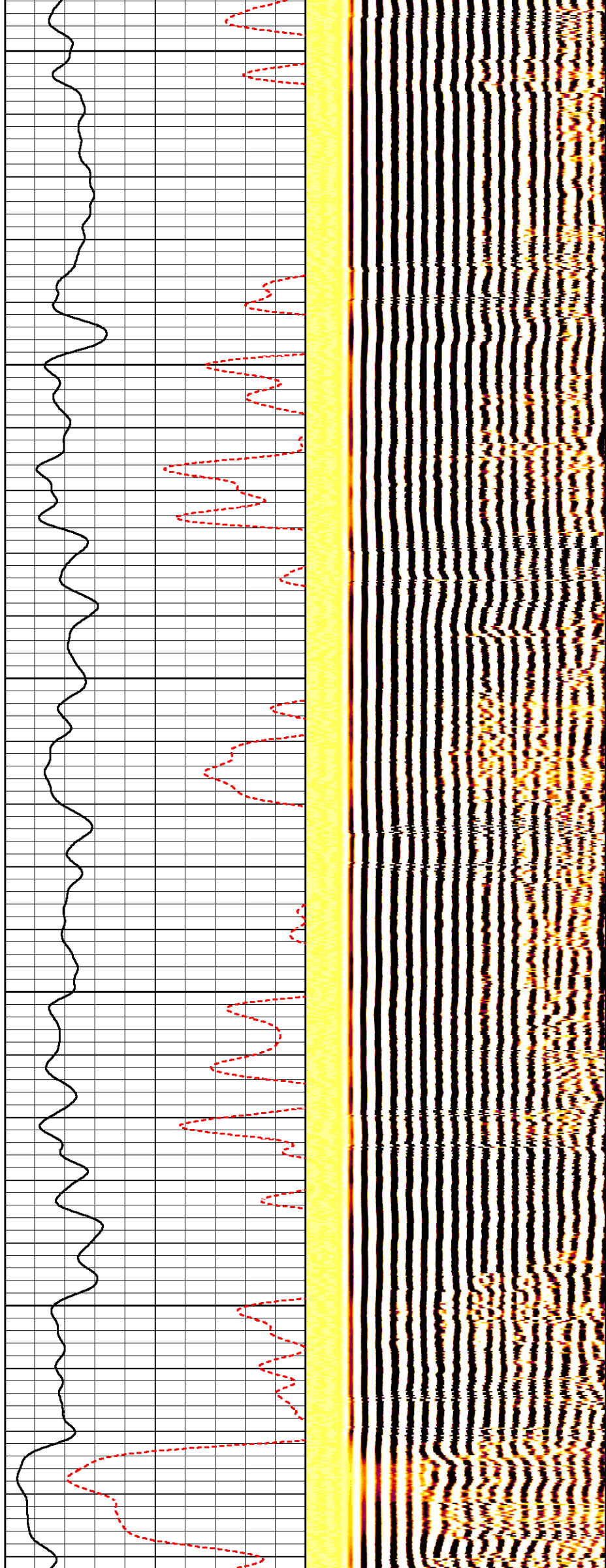


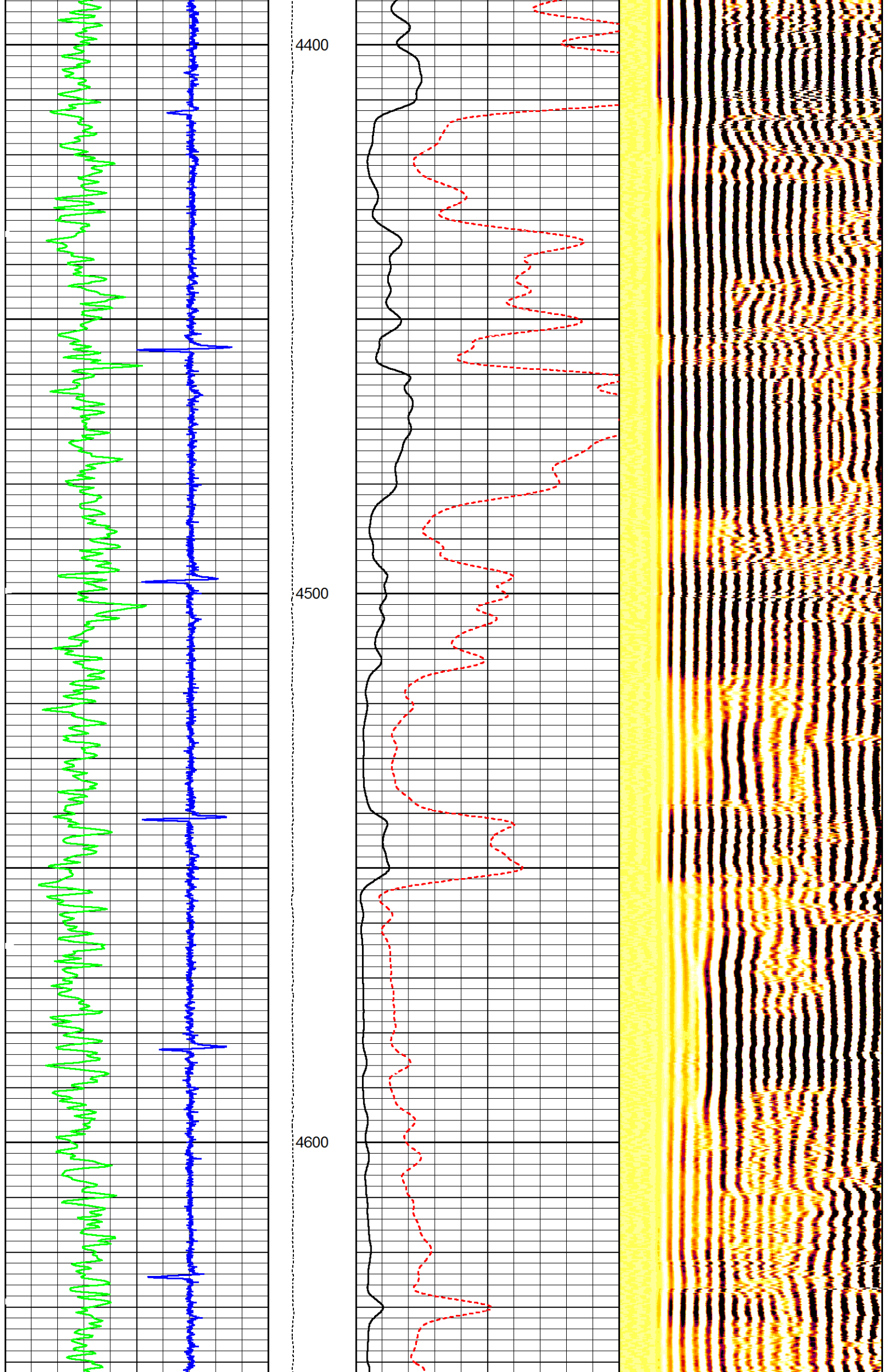


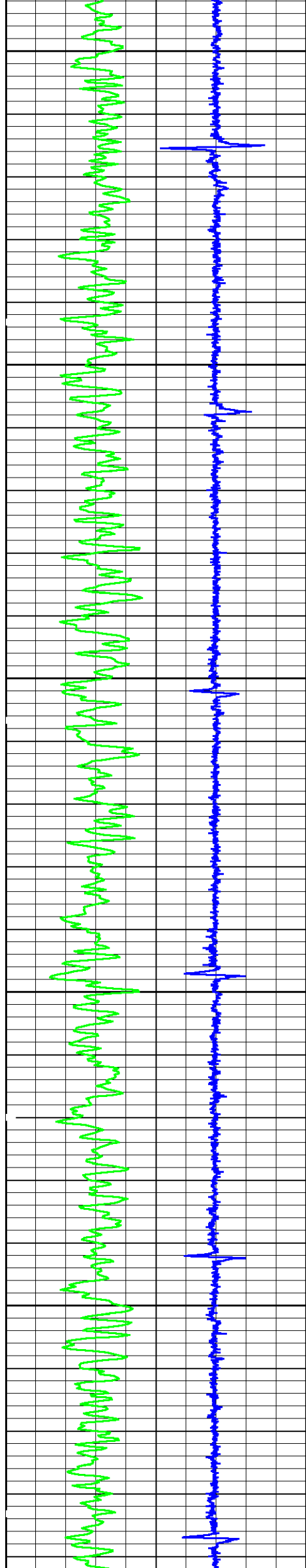


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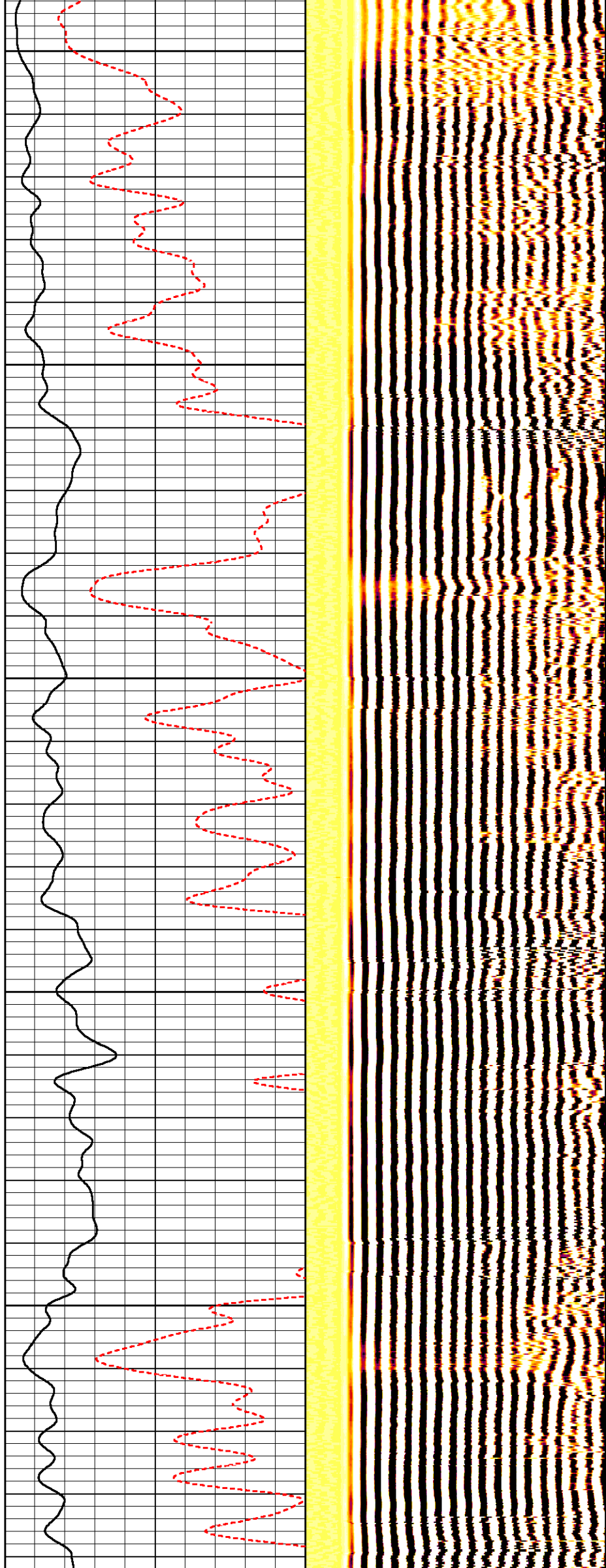


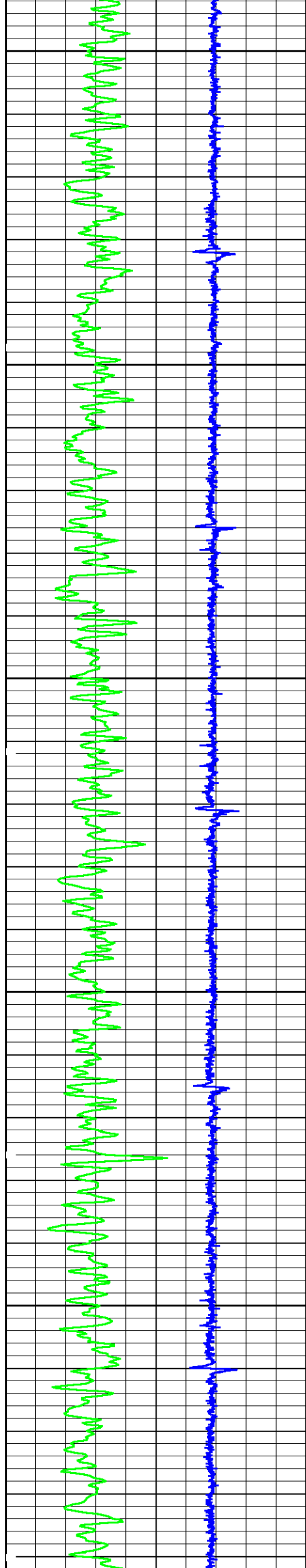




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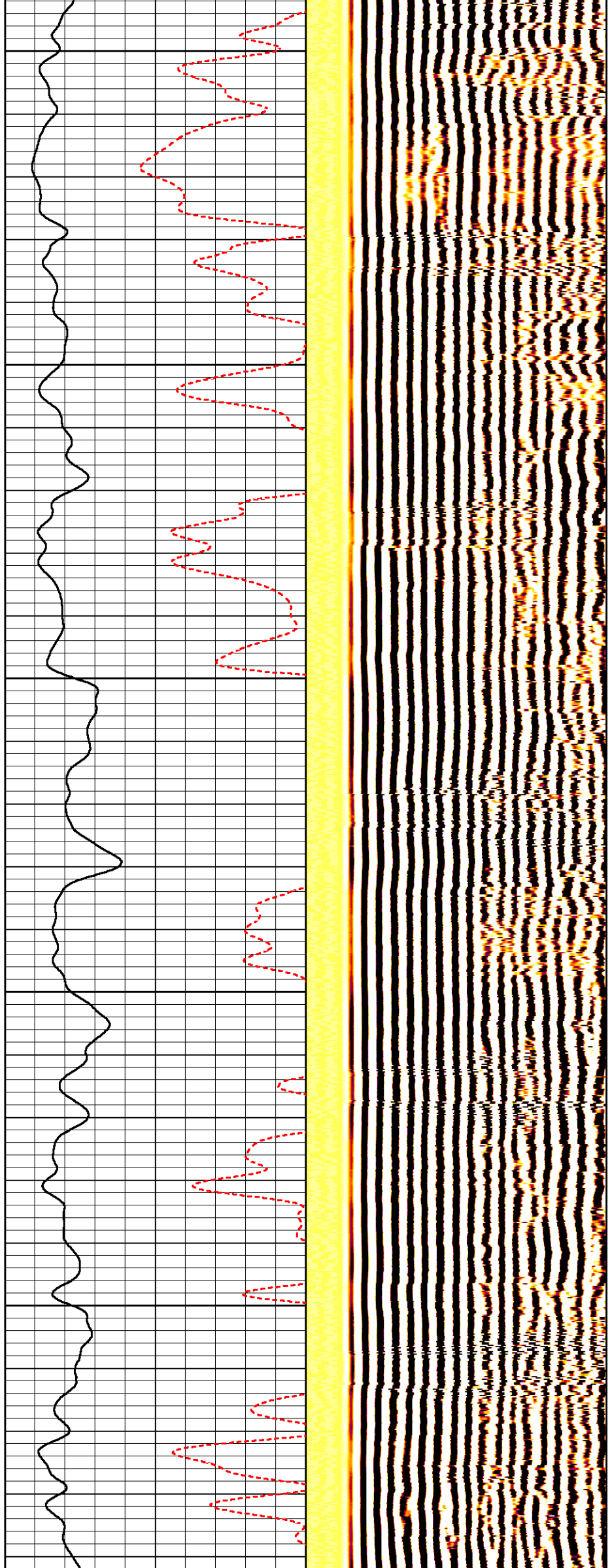


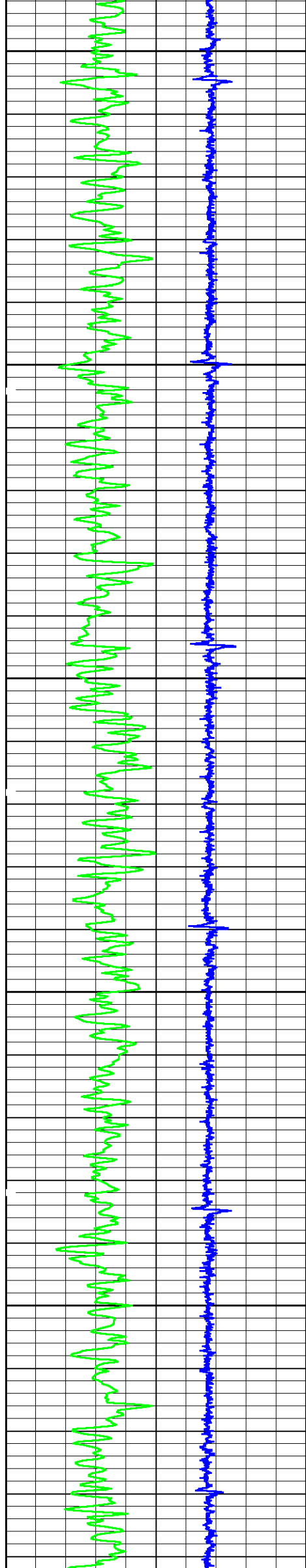


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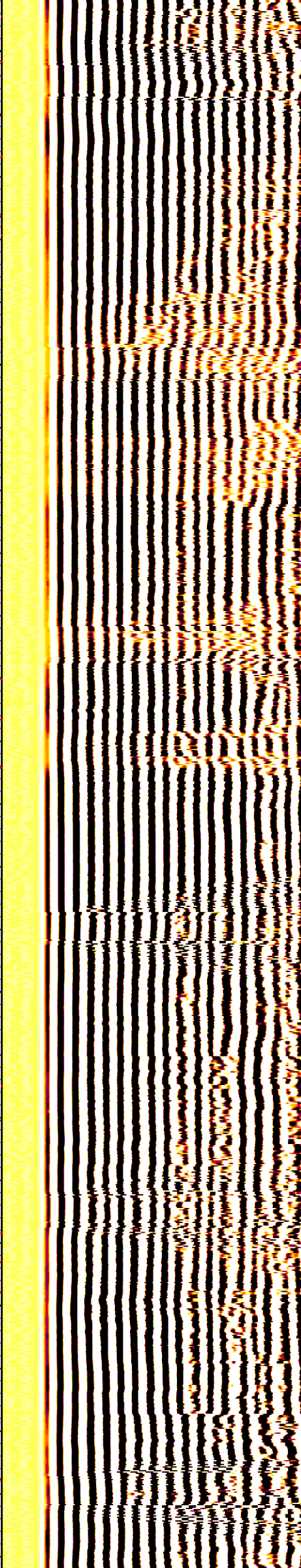
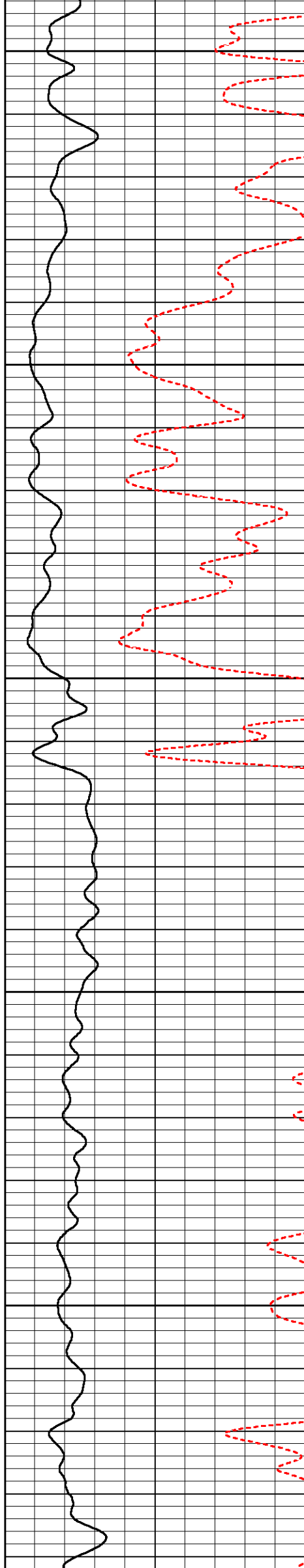
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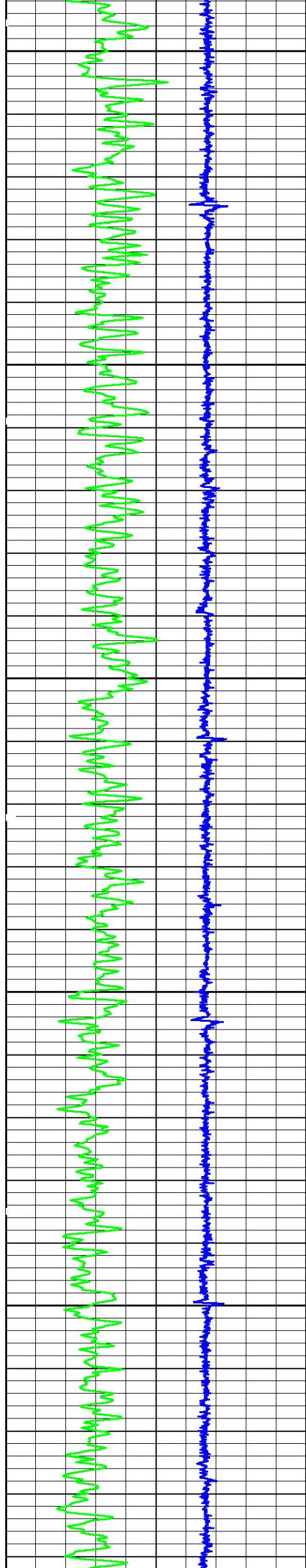




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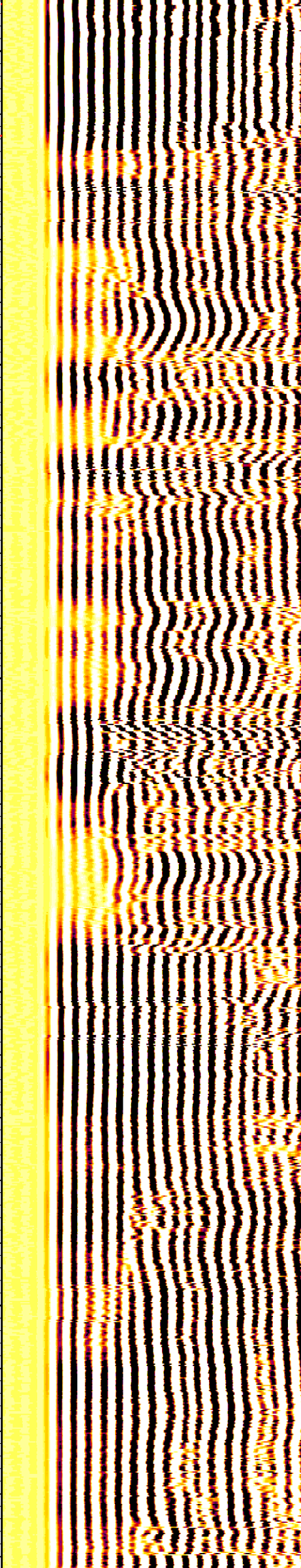
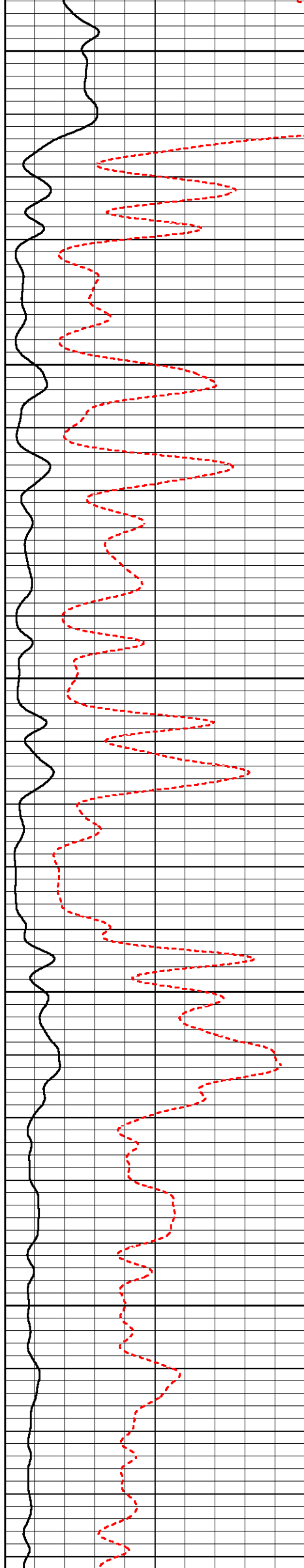


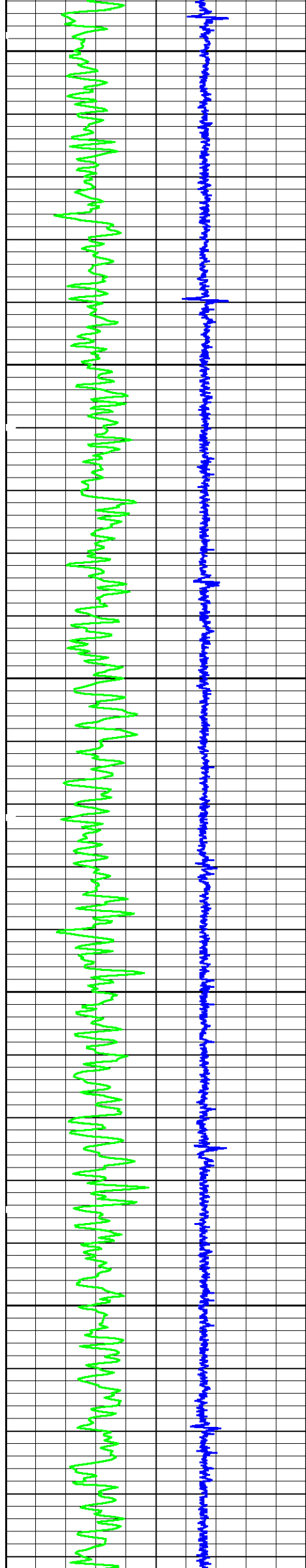


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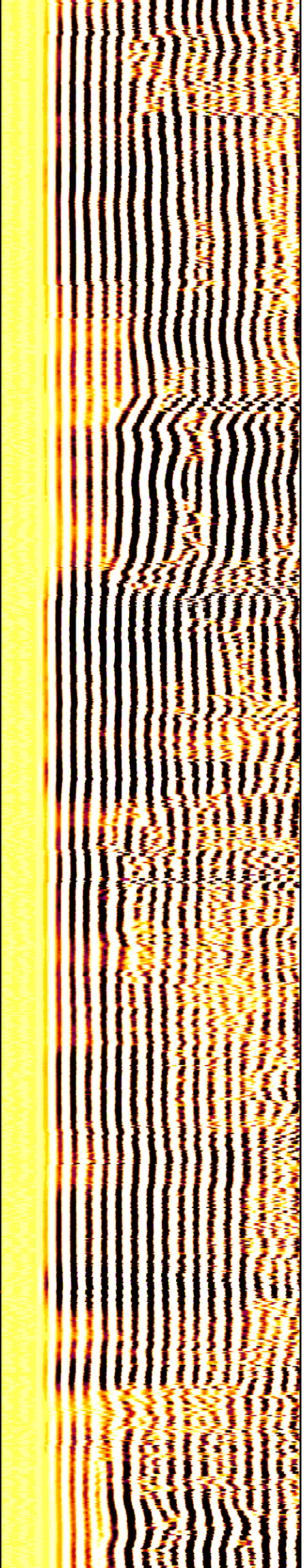
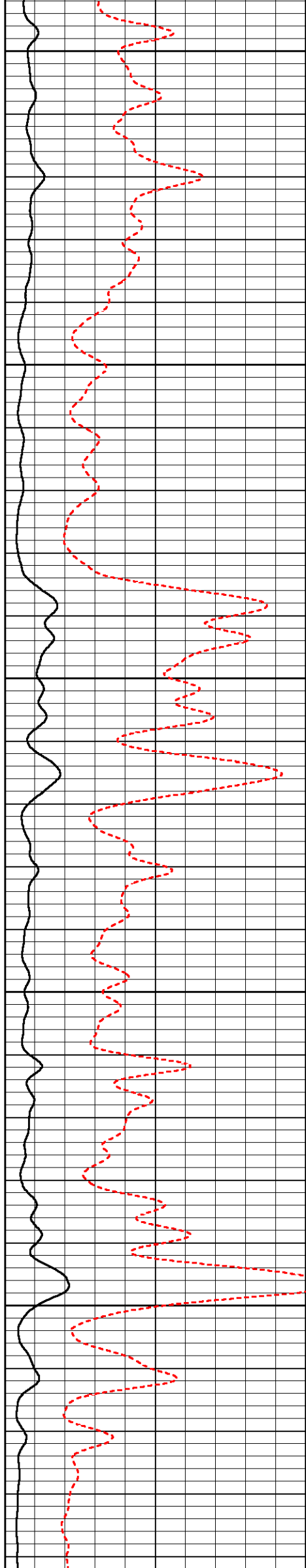
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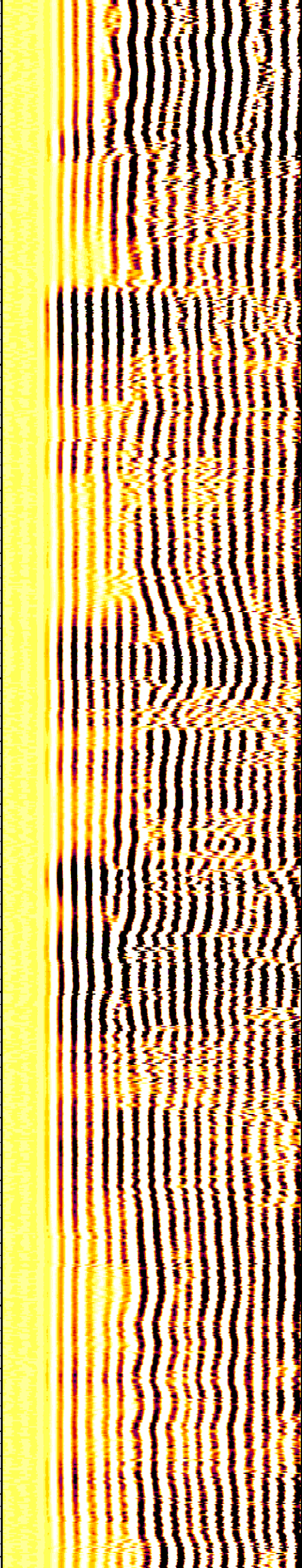
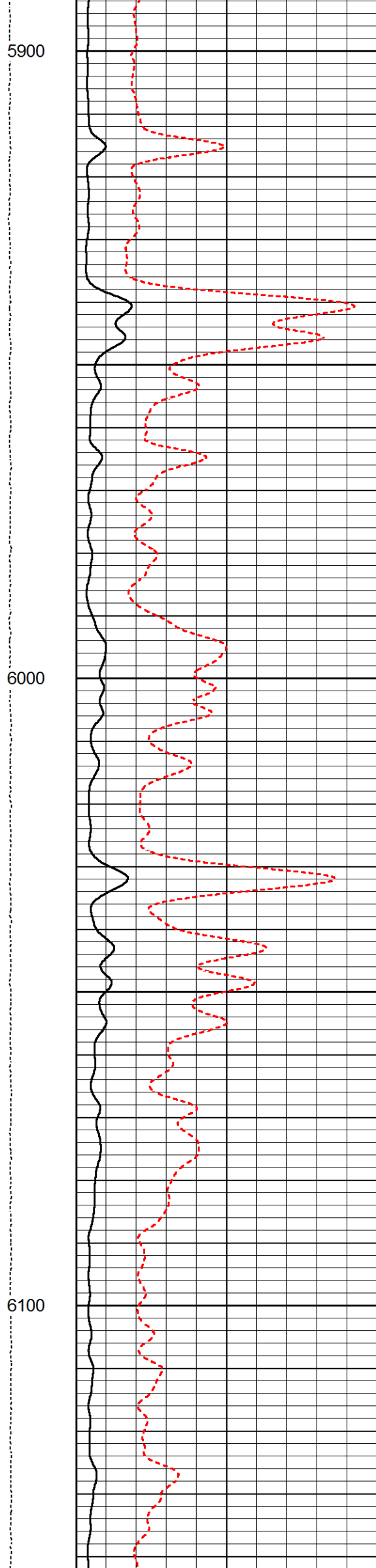
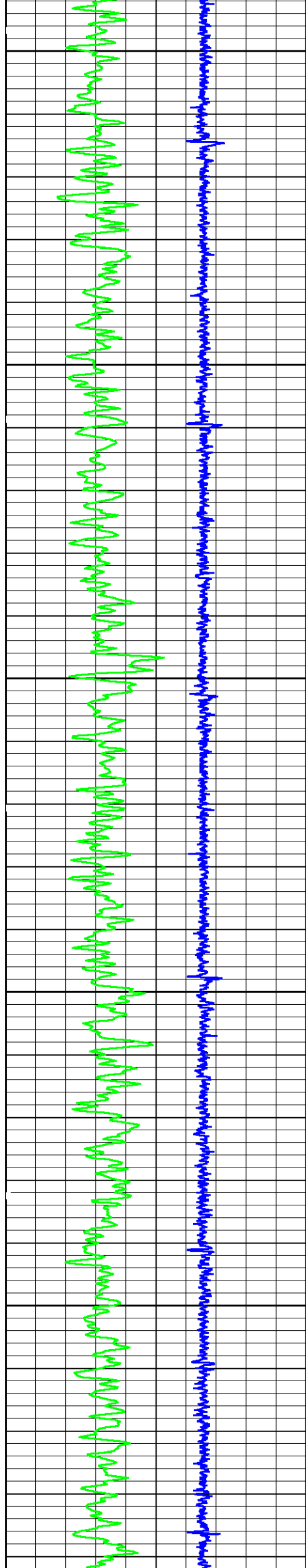


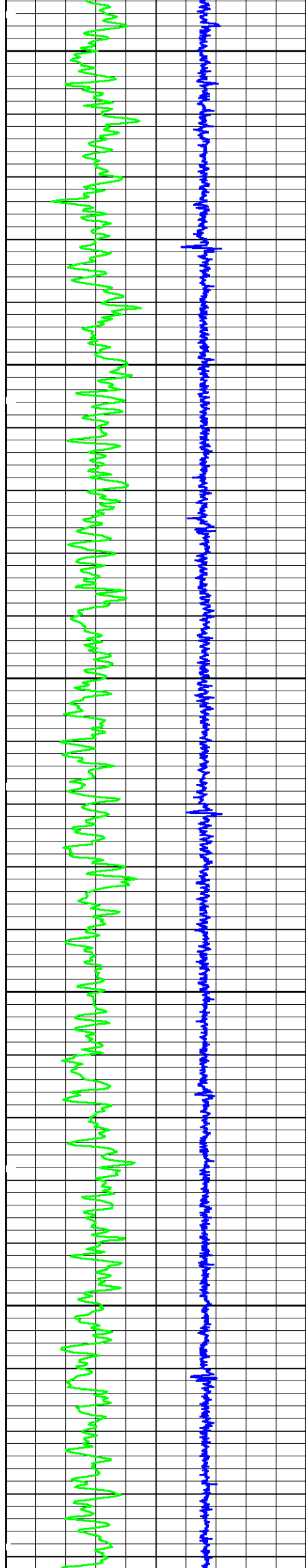


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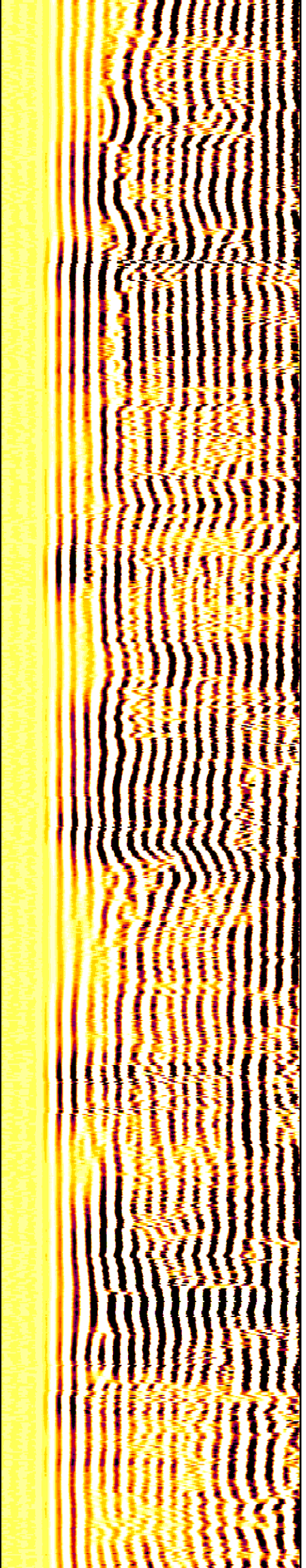
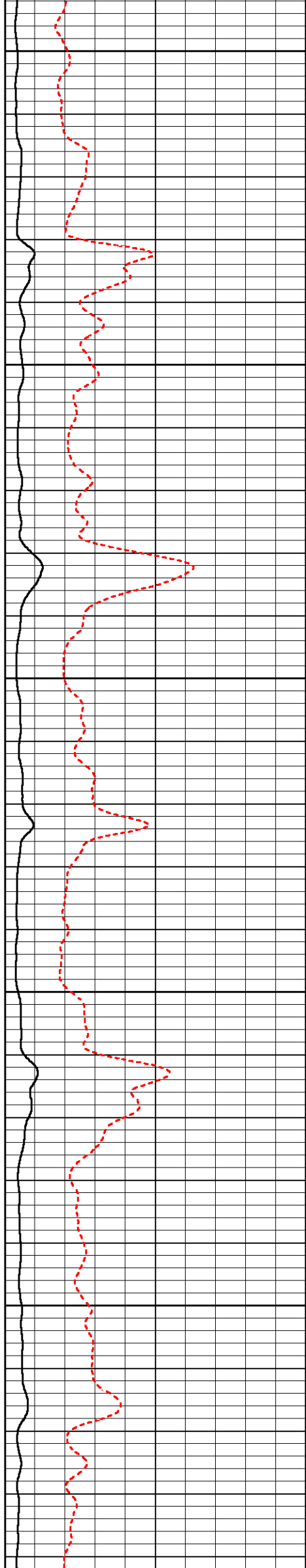


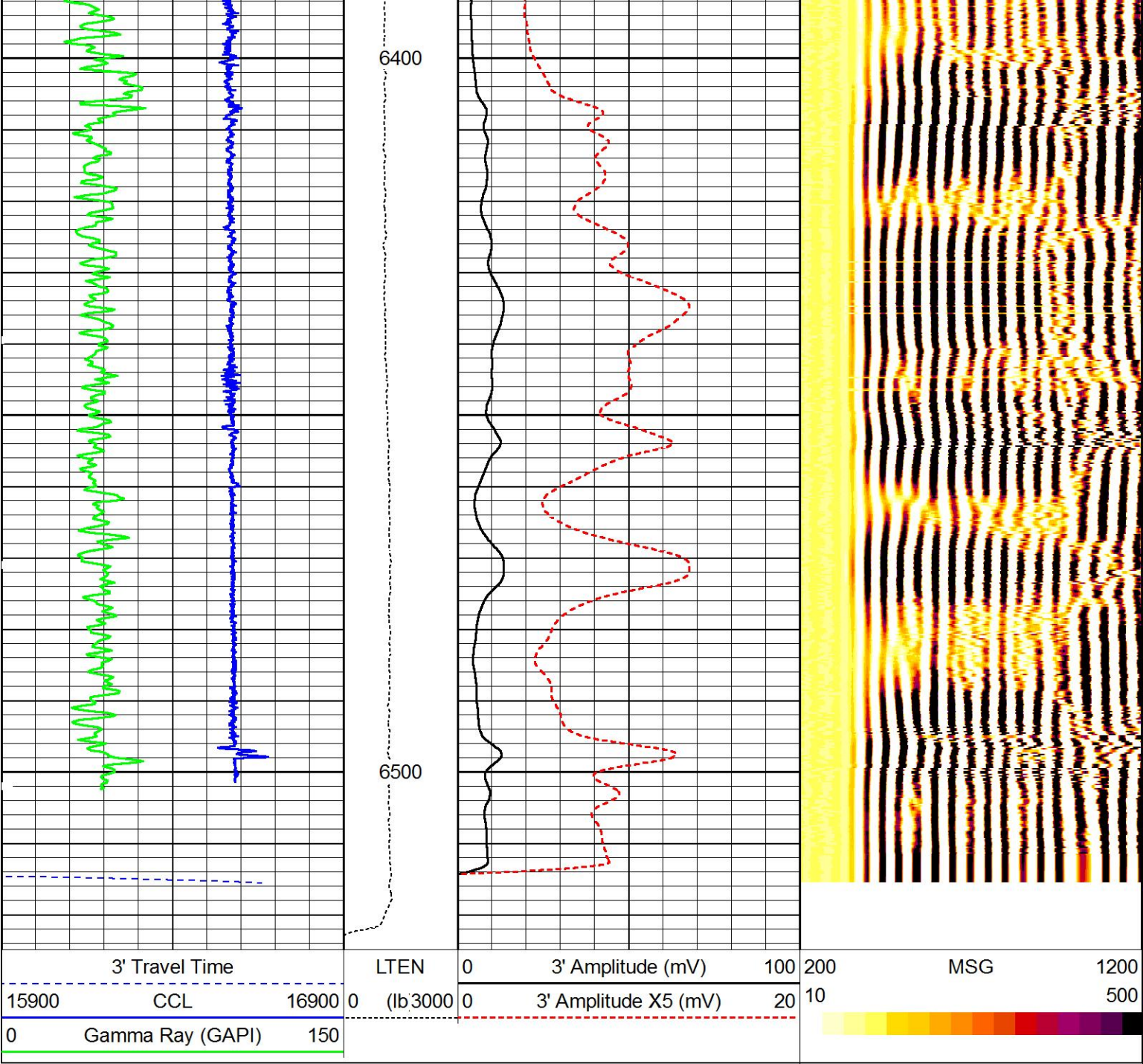




6200

6300





MAIN PASS (2500 PSI)

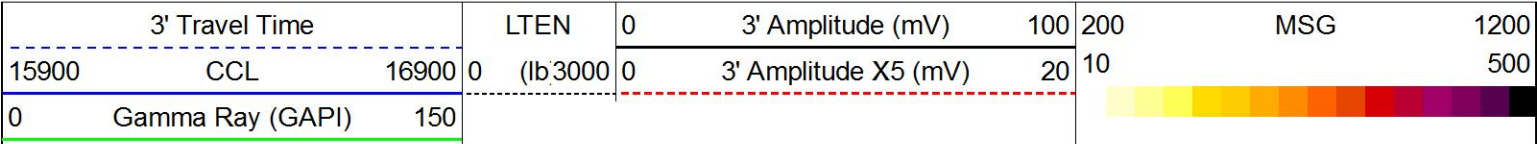
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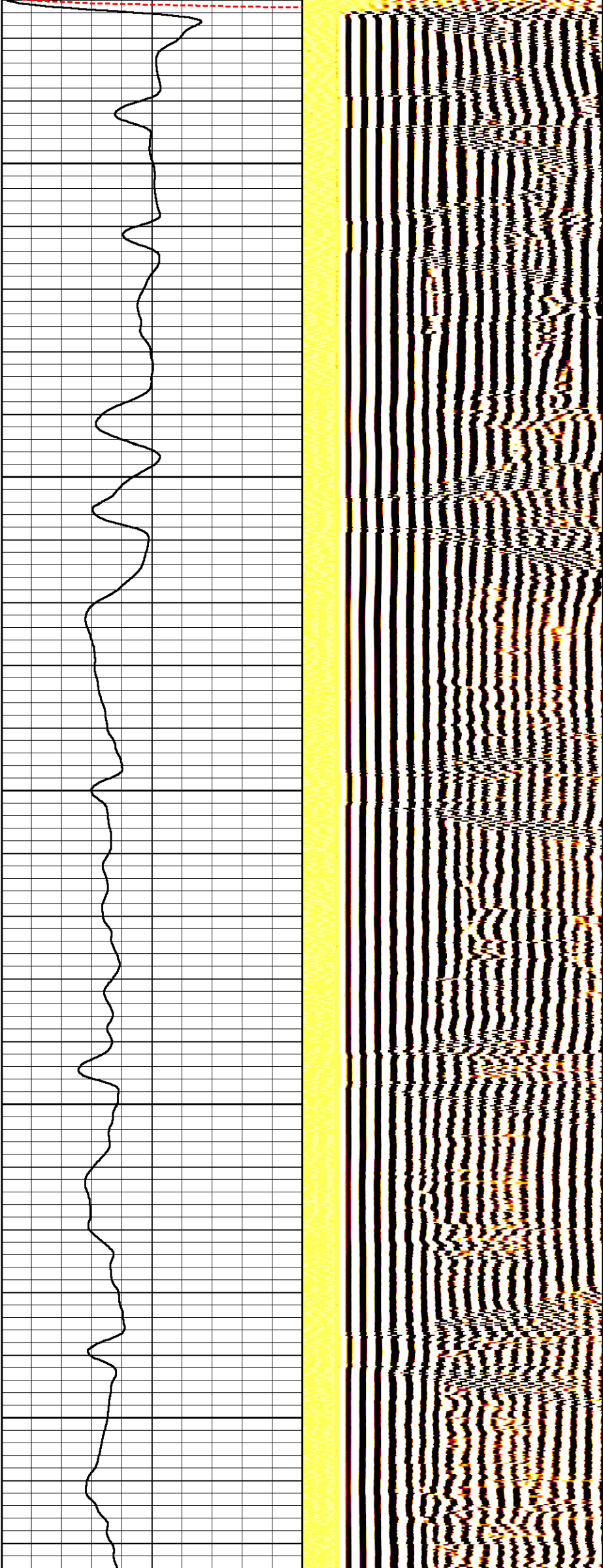
HALLIBURTON

MAIN PASS (0 PSI)

5" = 100'

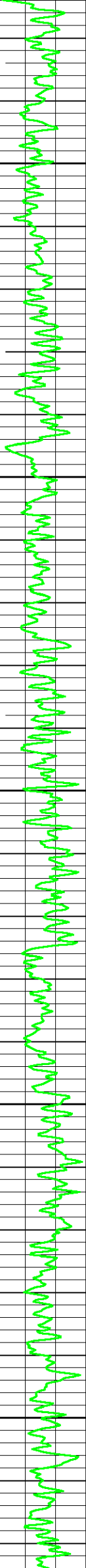
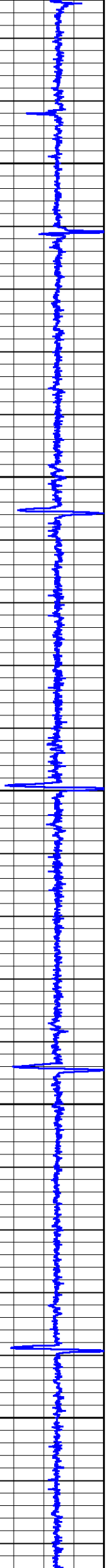
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Presentation Format 1 synergy cbl
Dataset Creation Thu Aug 04 00:30:40 2016
Charted by Depth in Feet scaled 1:240

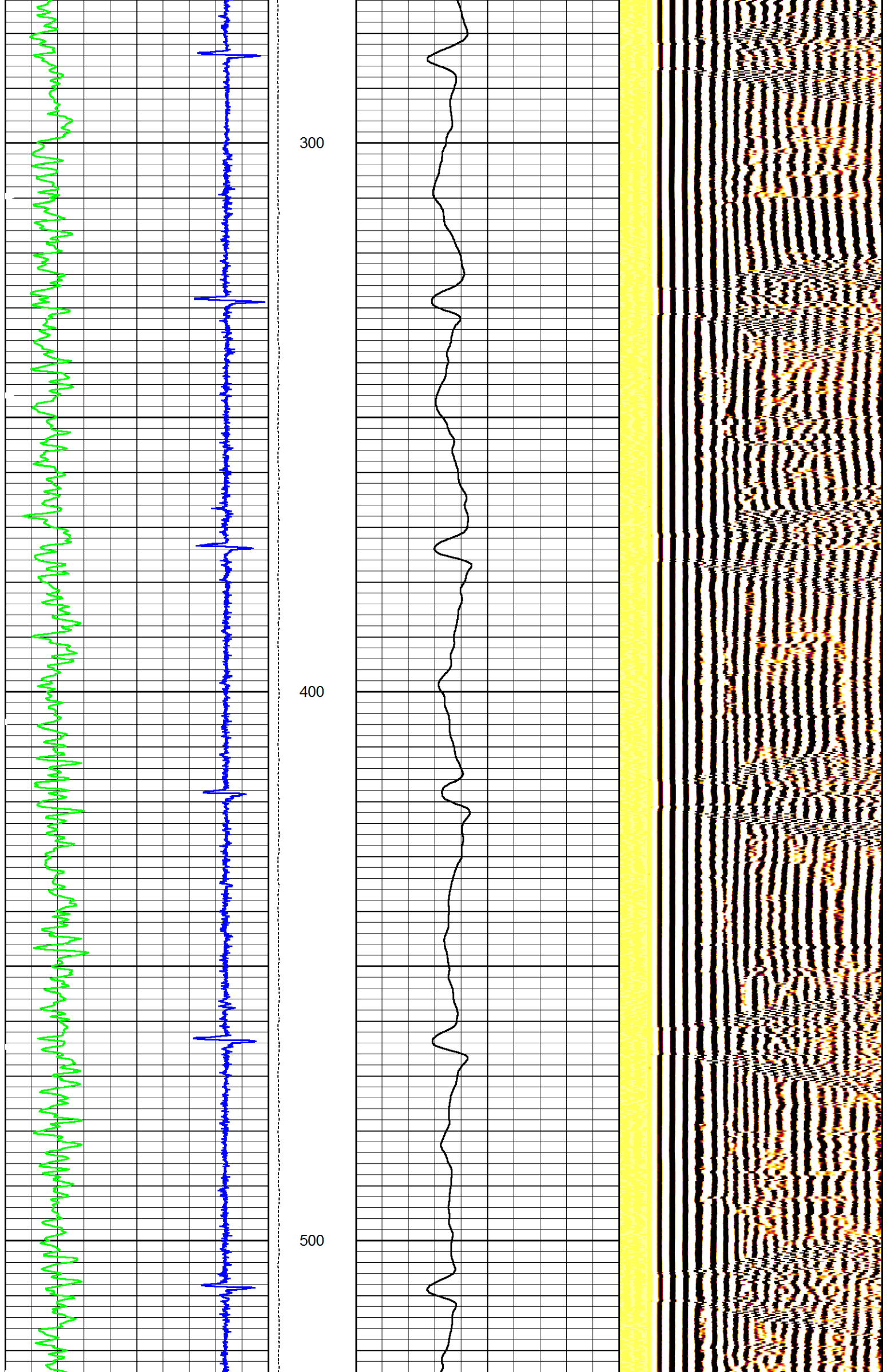


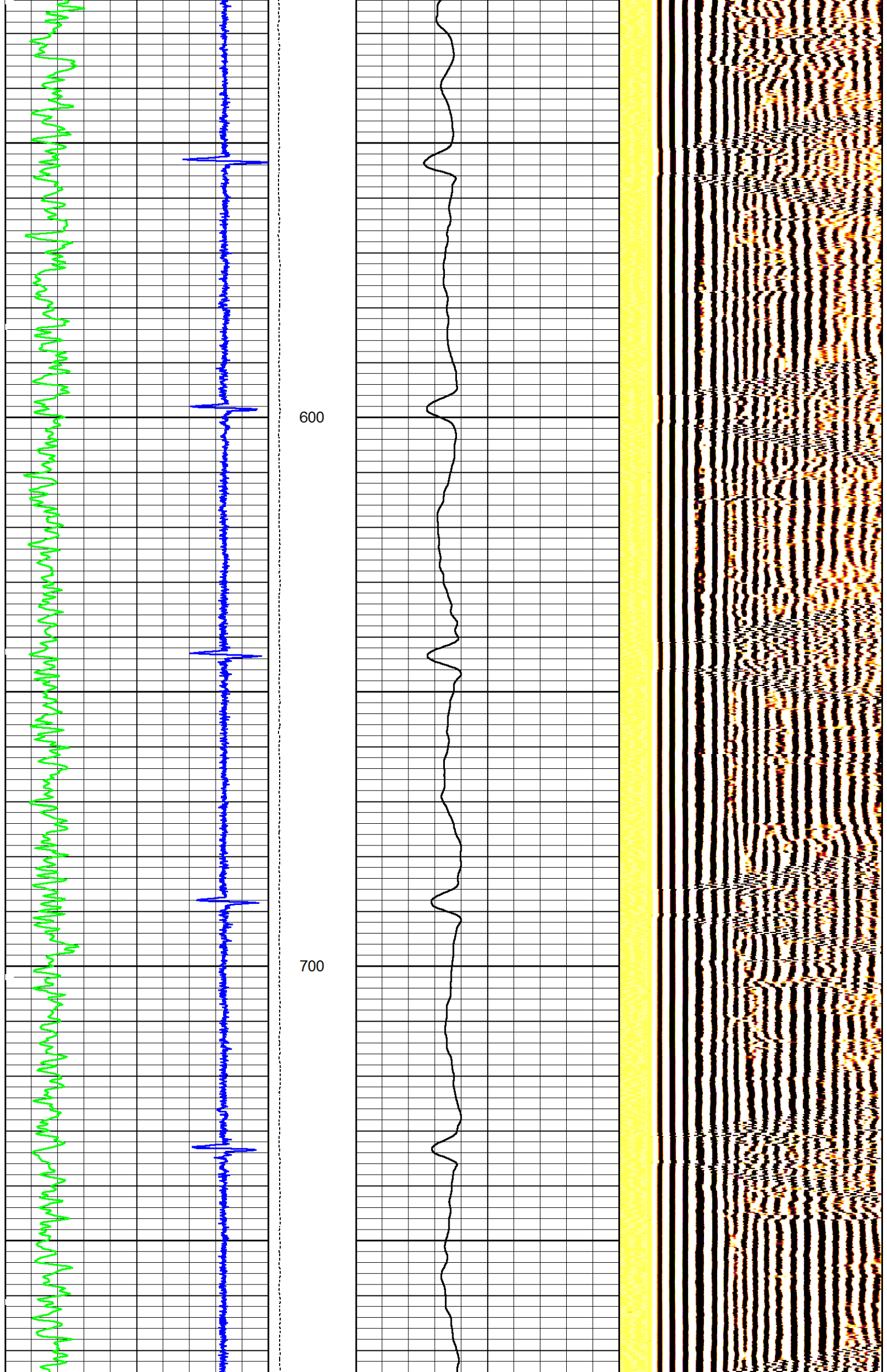


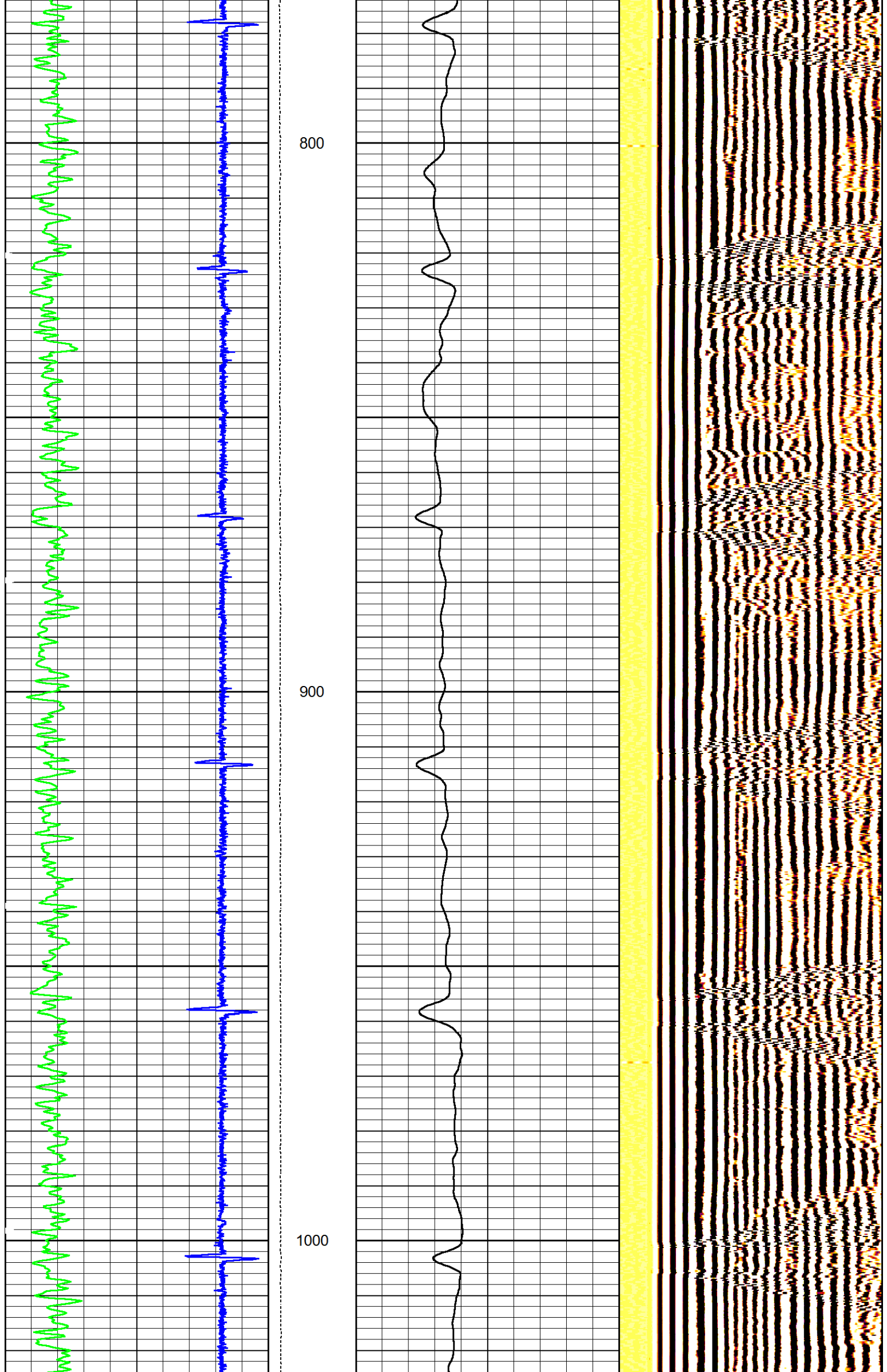
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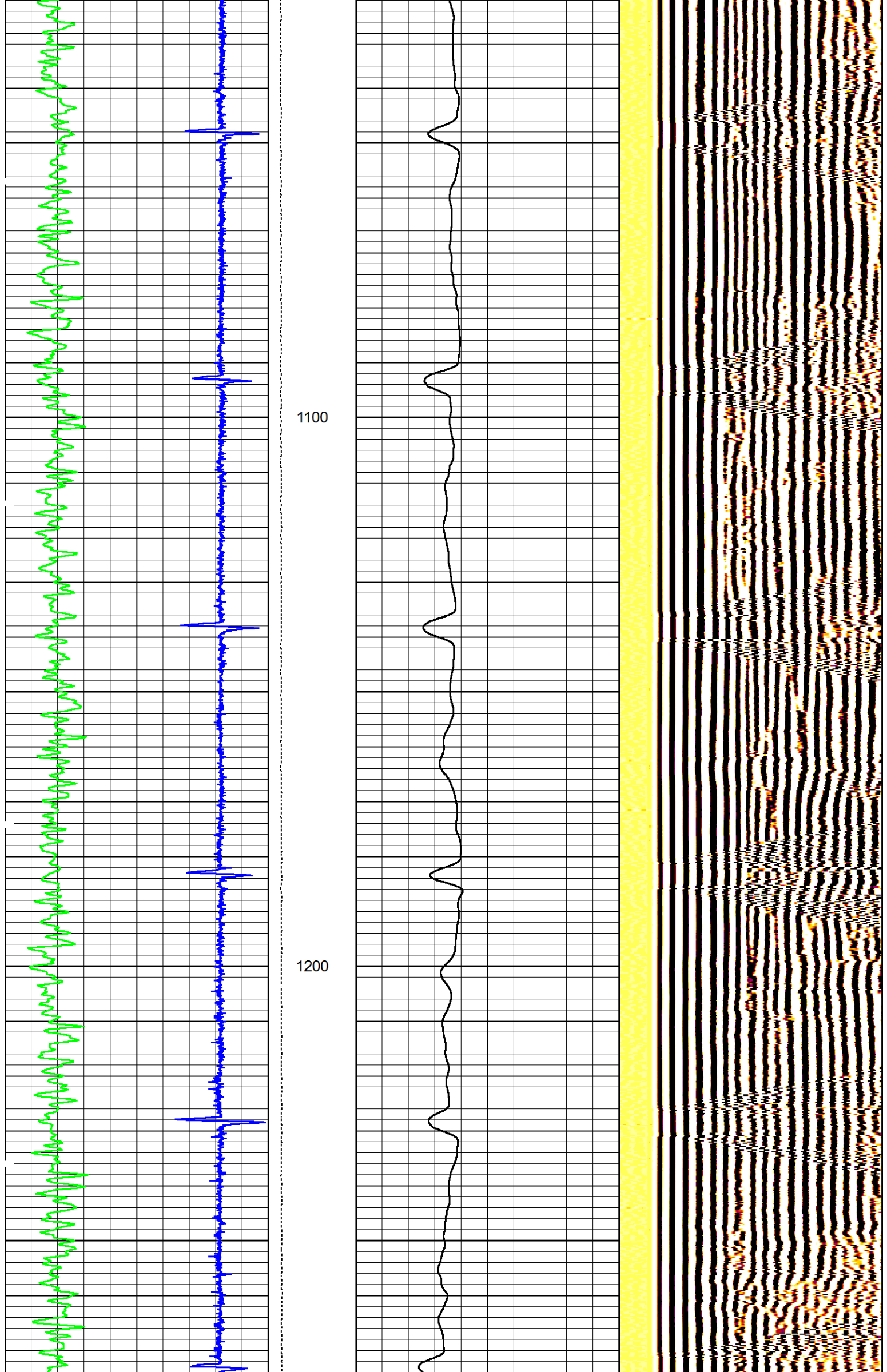
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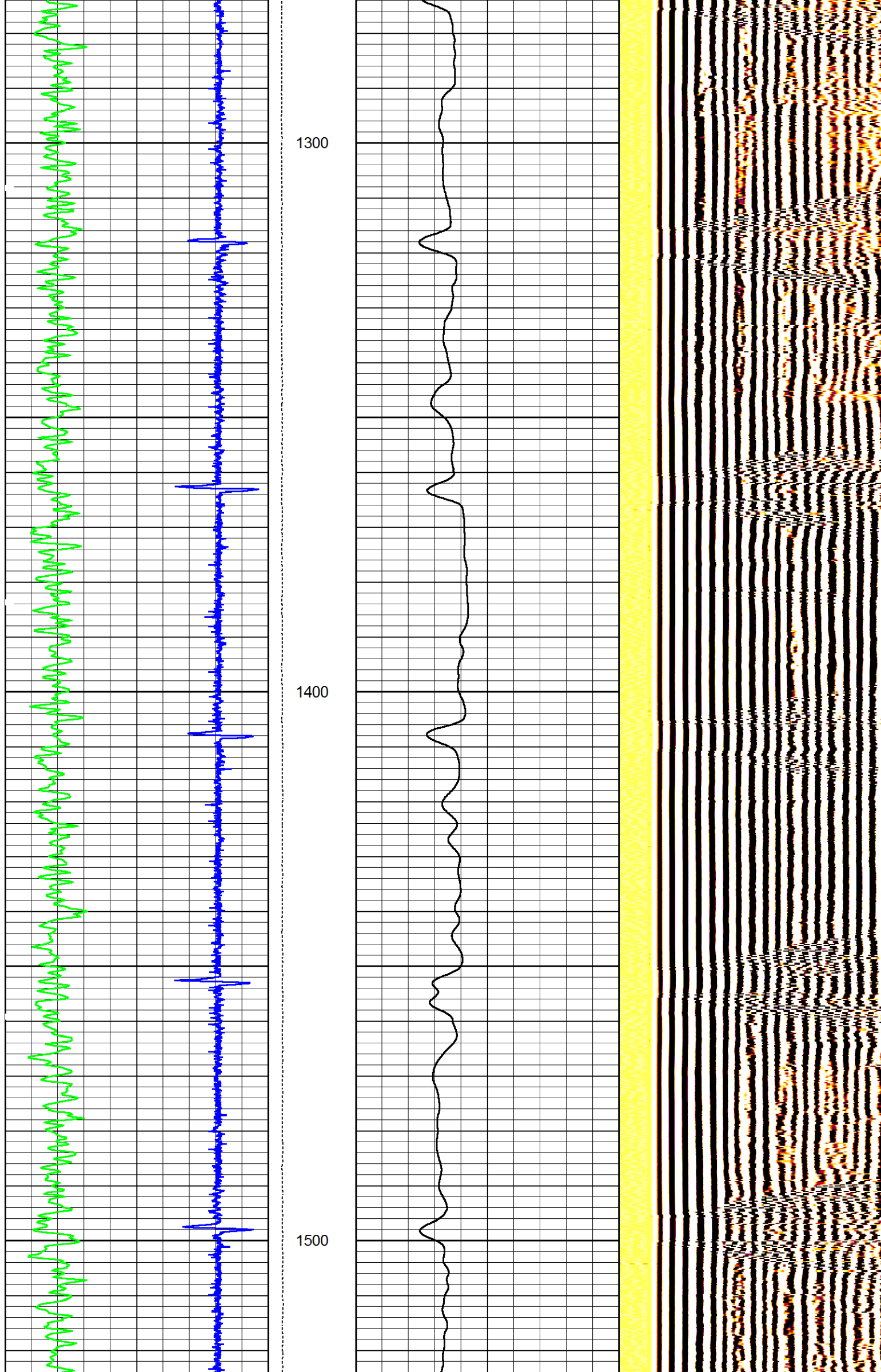


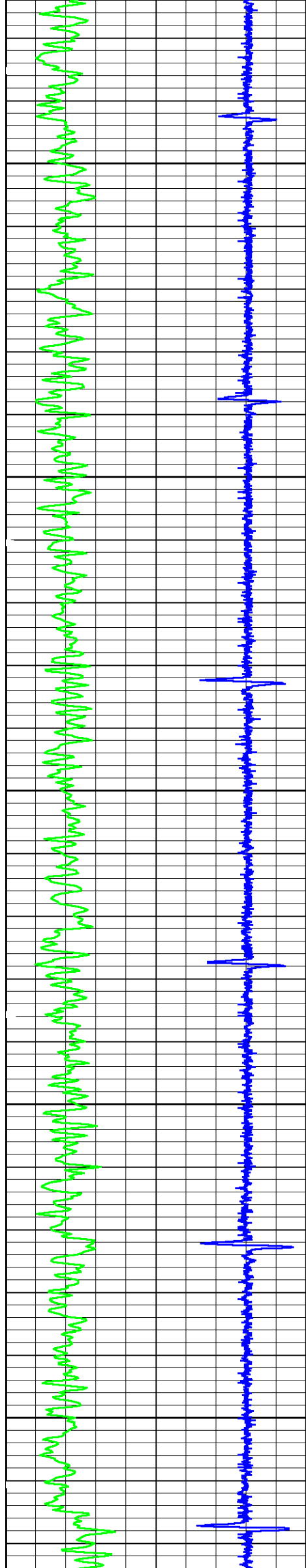






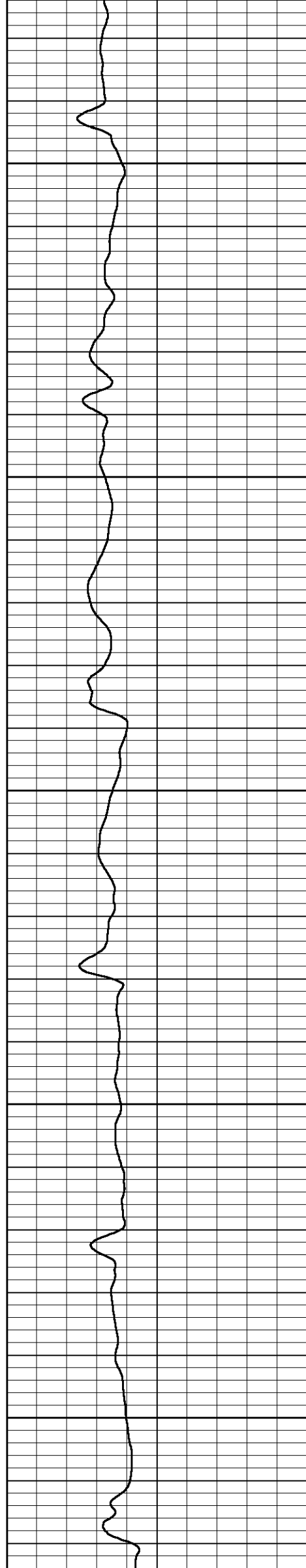


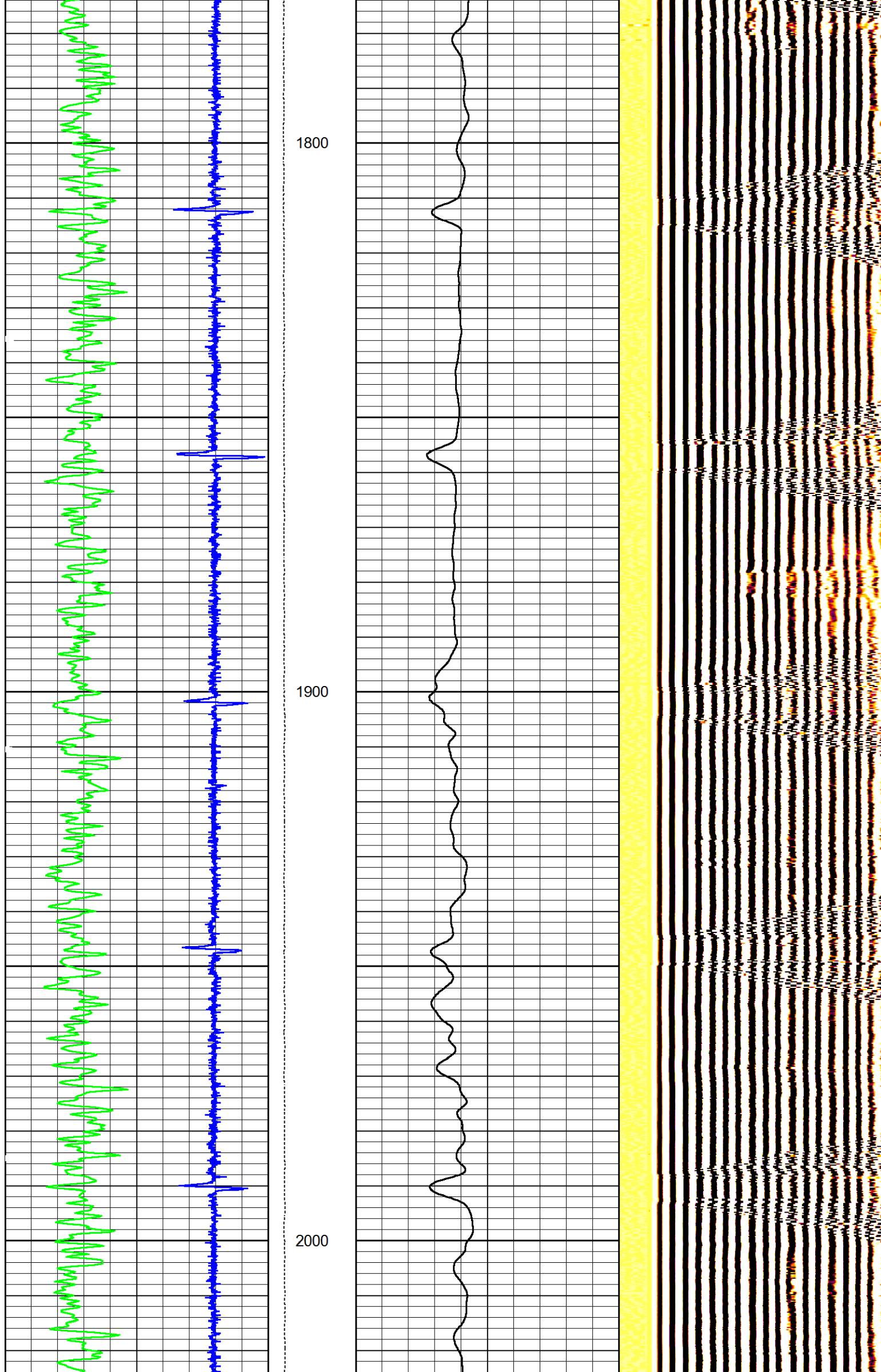


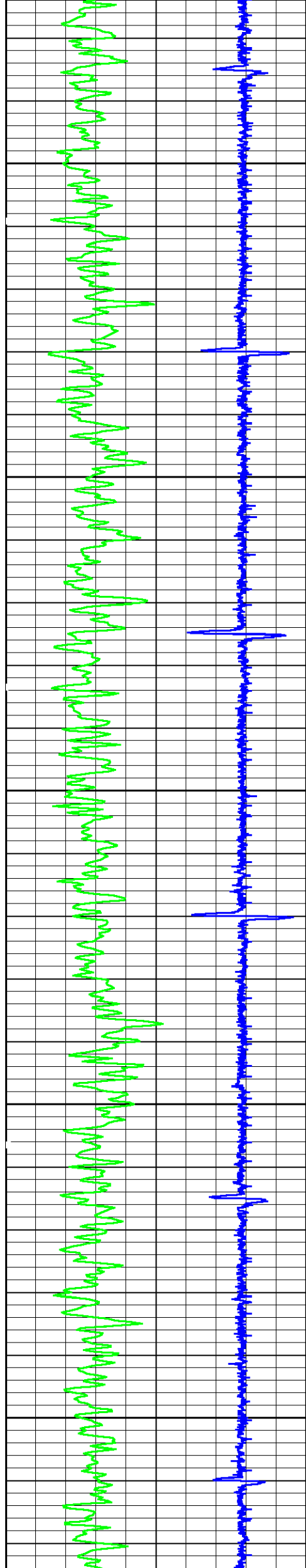


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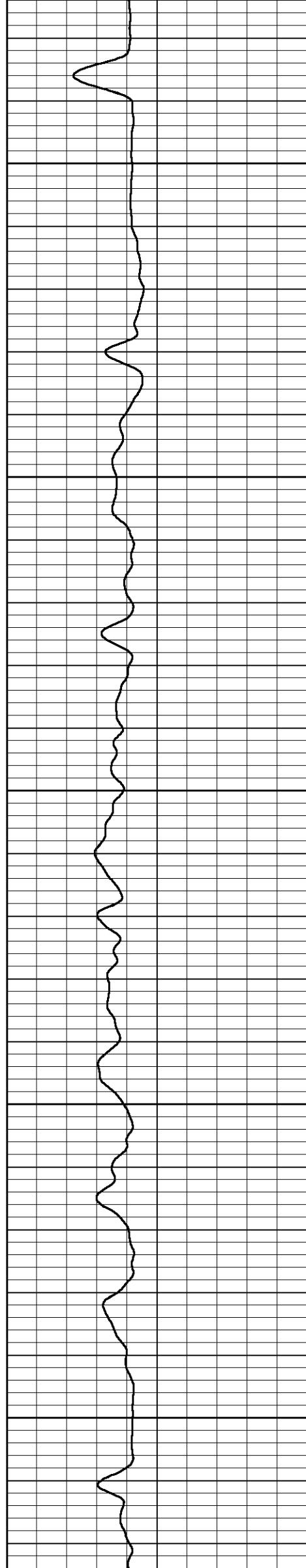


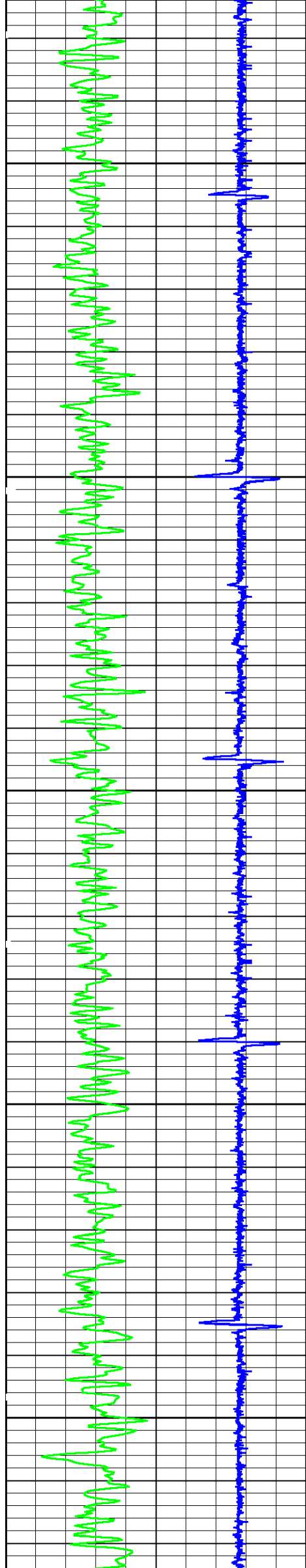




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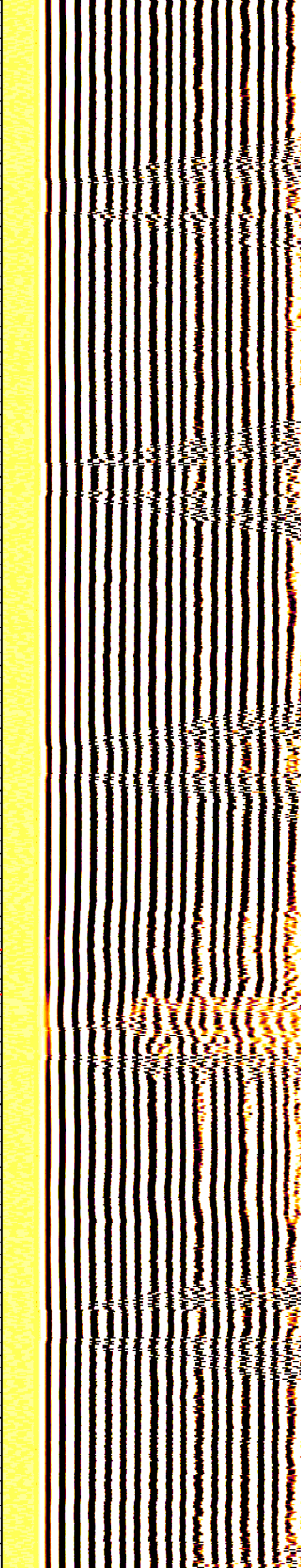
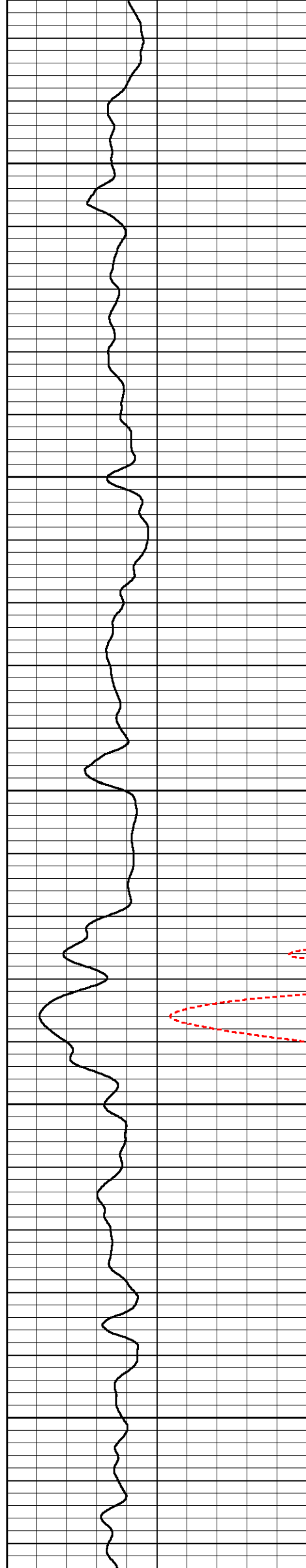


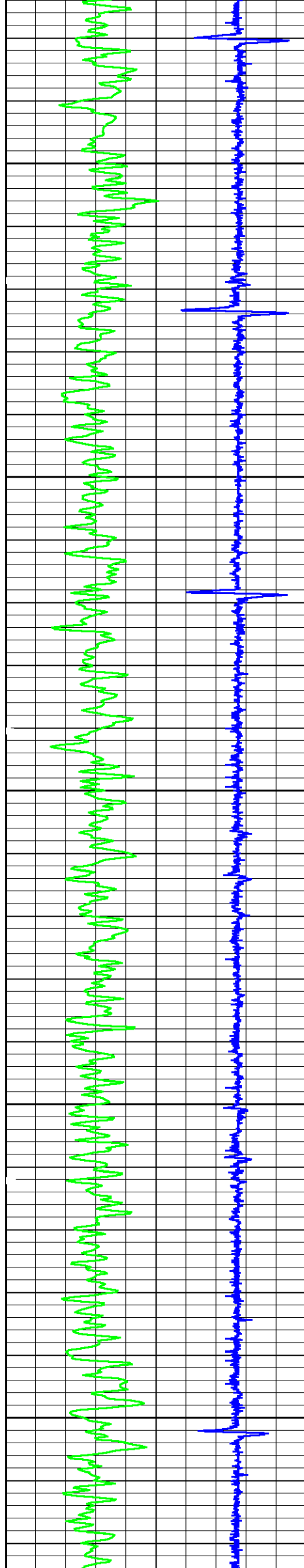


2300

2400

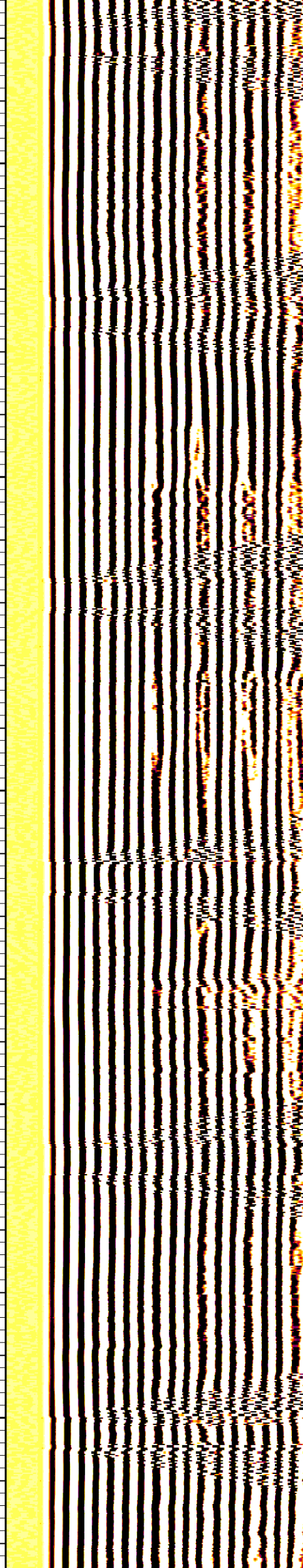
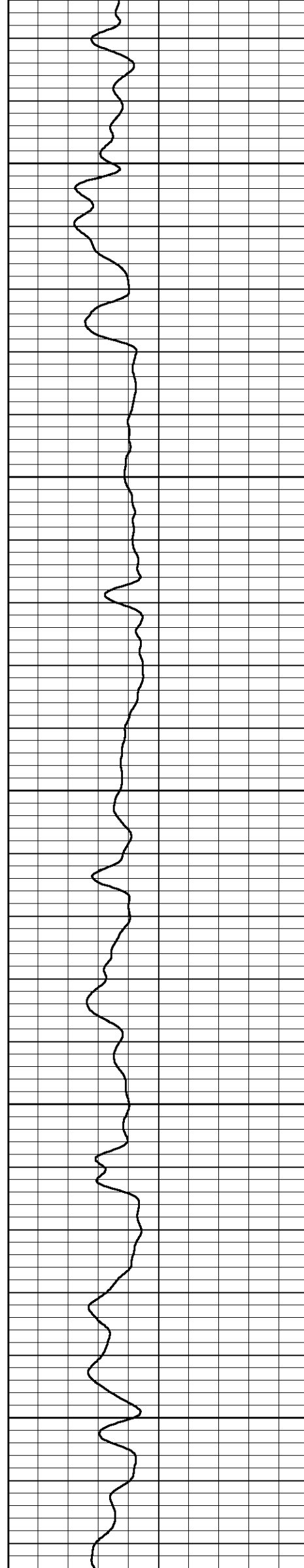
2500

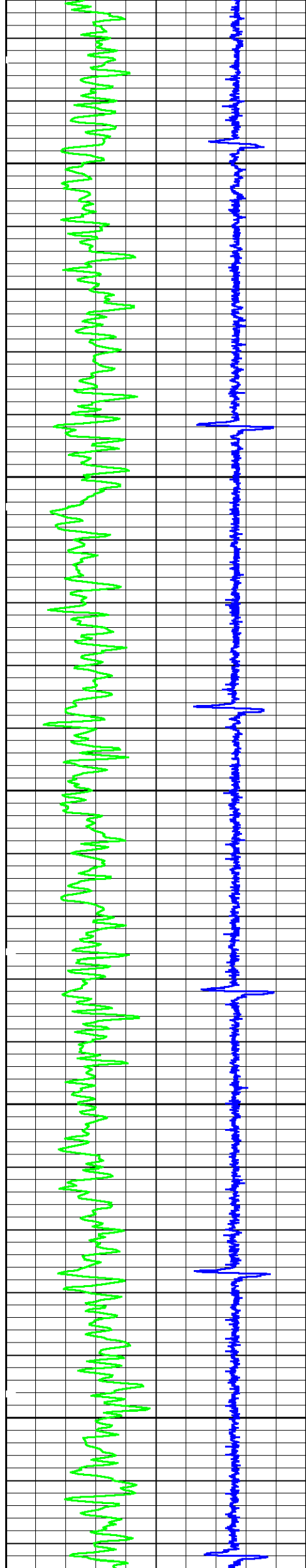




2600

2700

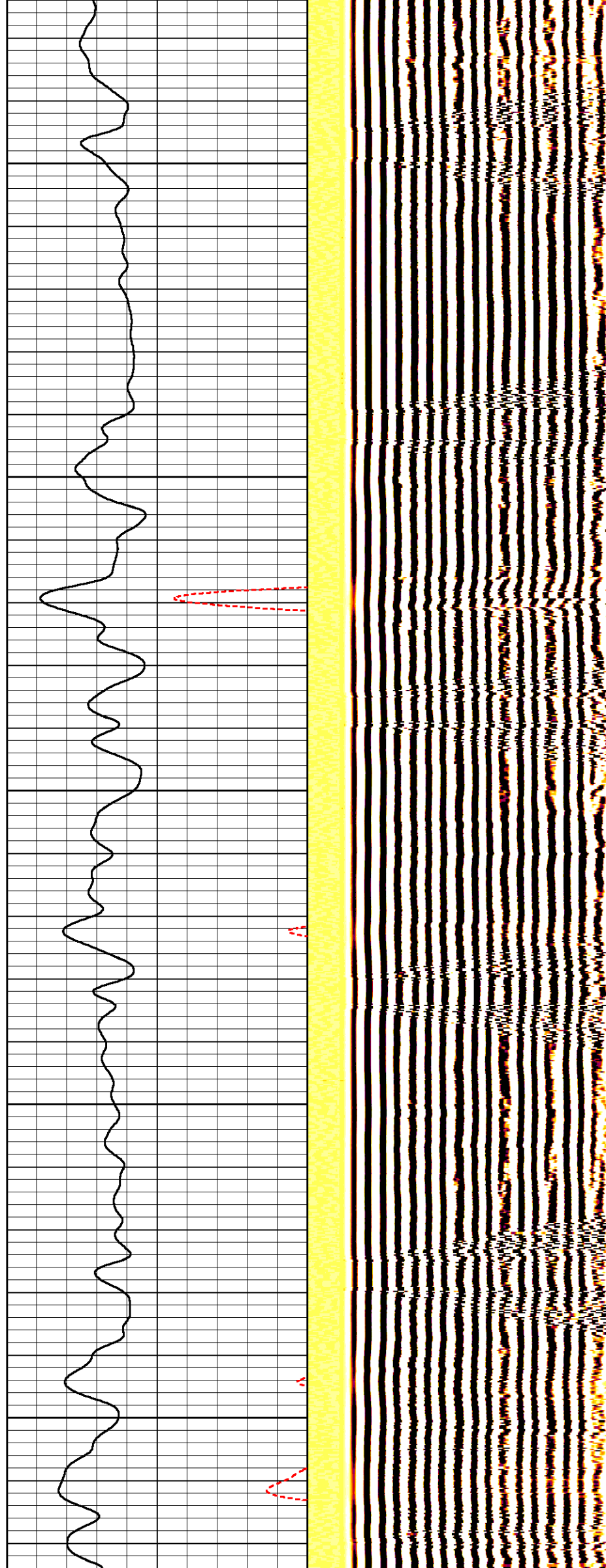


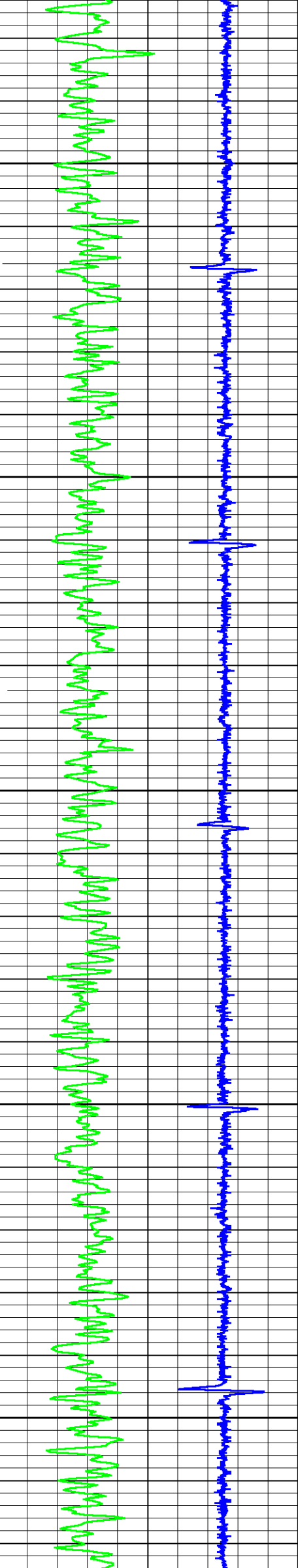


2800

2900

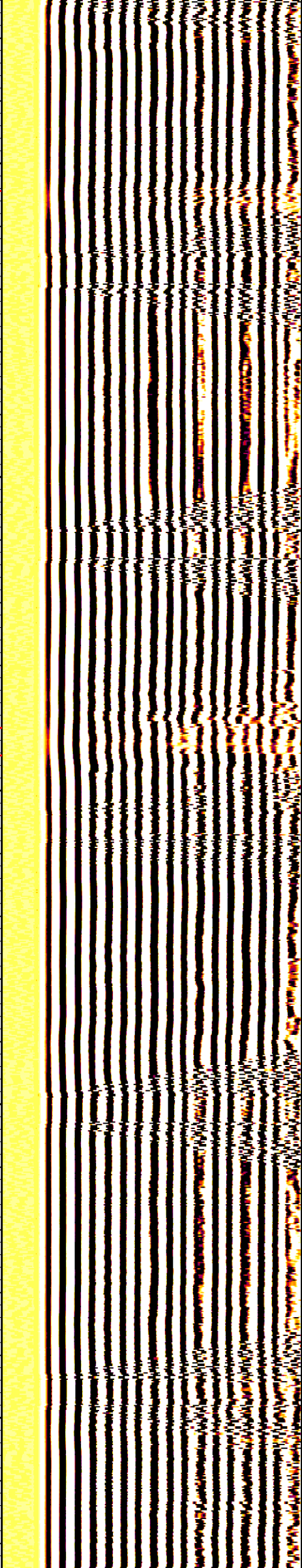
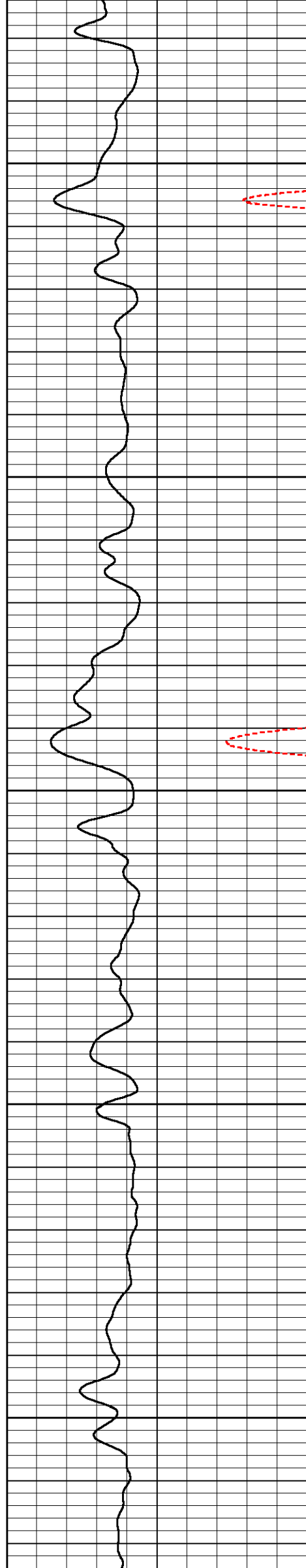
3000

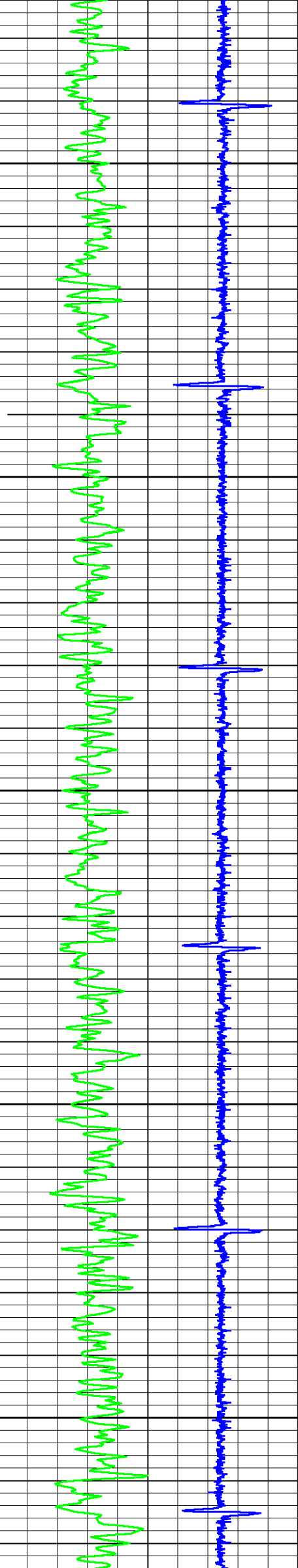




3100

3200

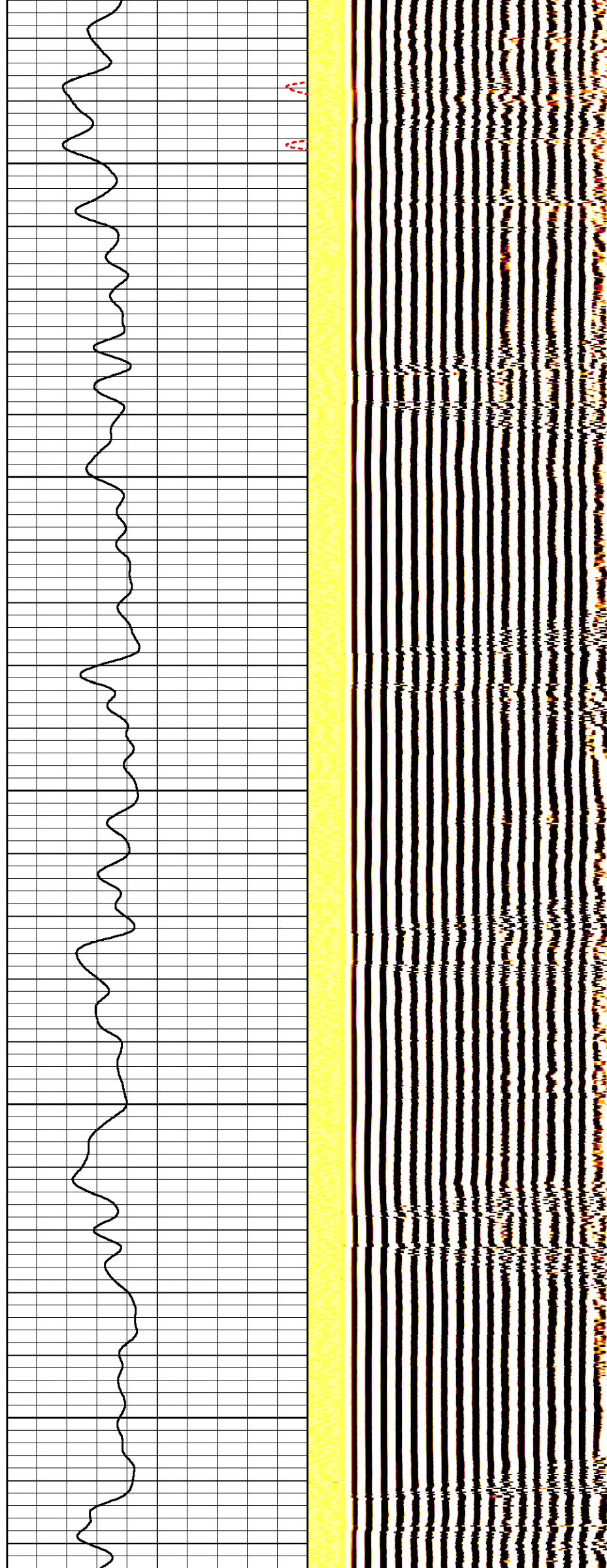


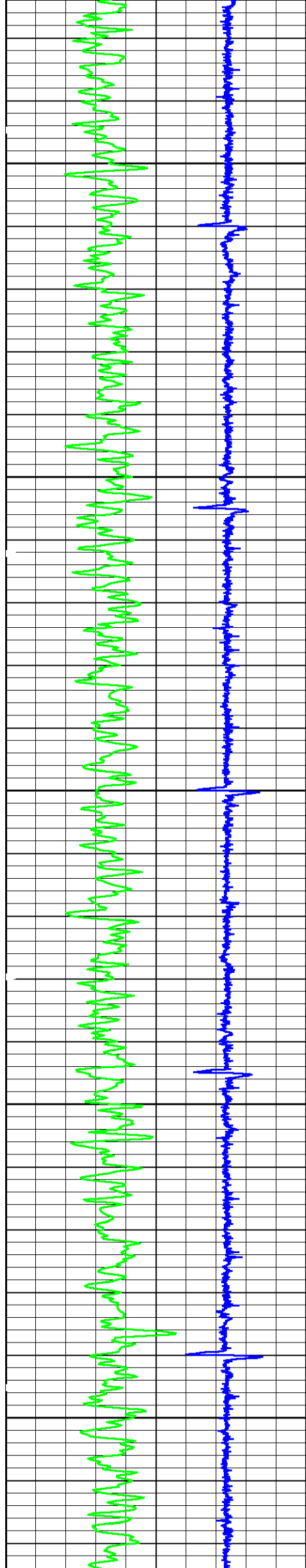


3300

3400

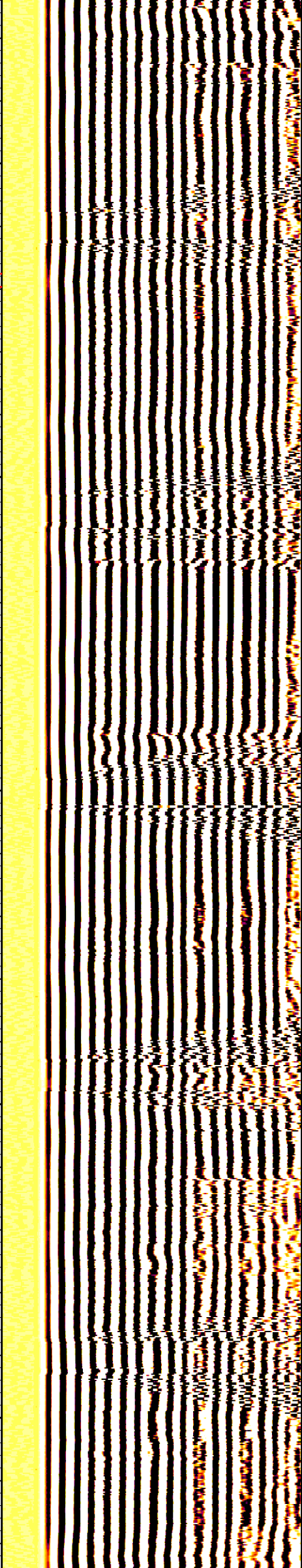
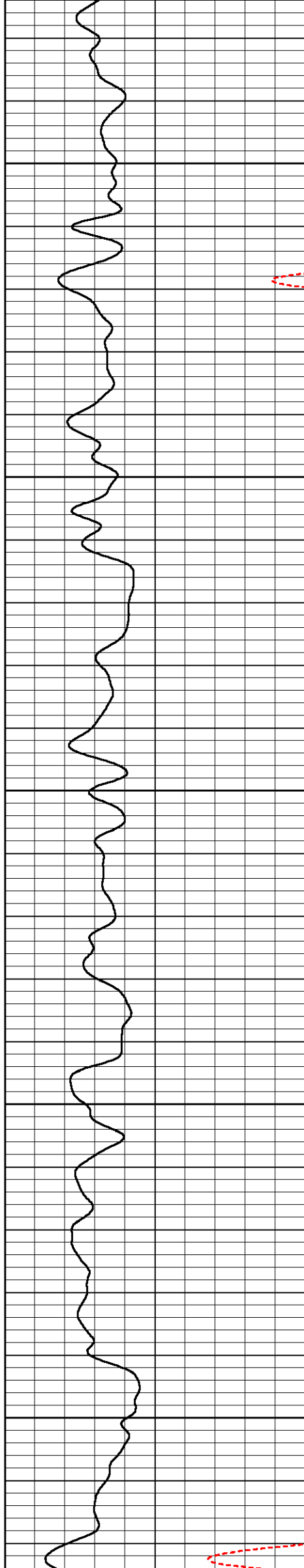
3500

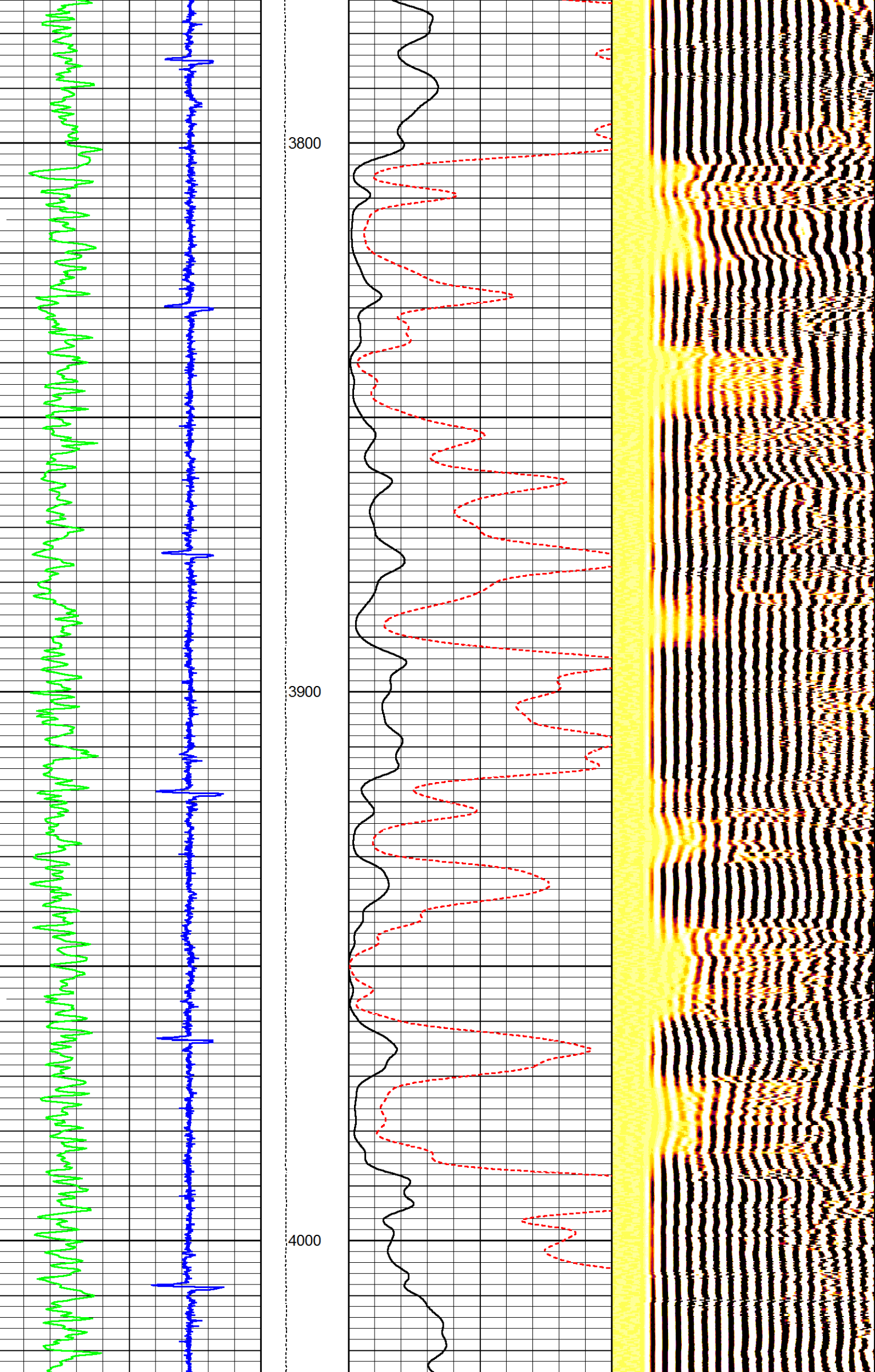


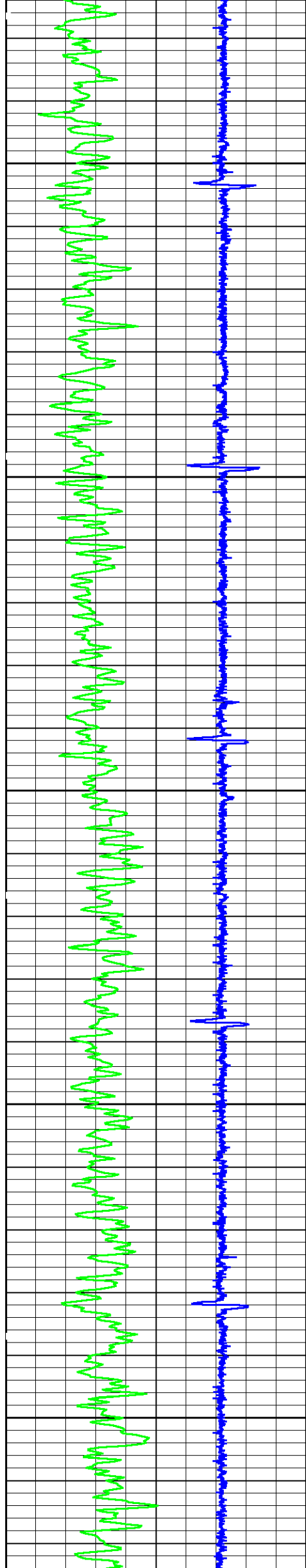


3600

3700

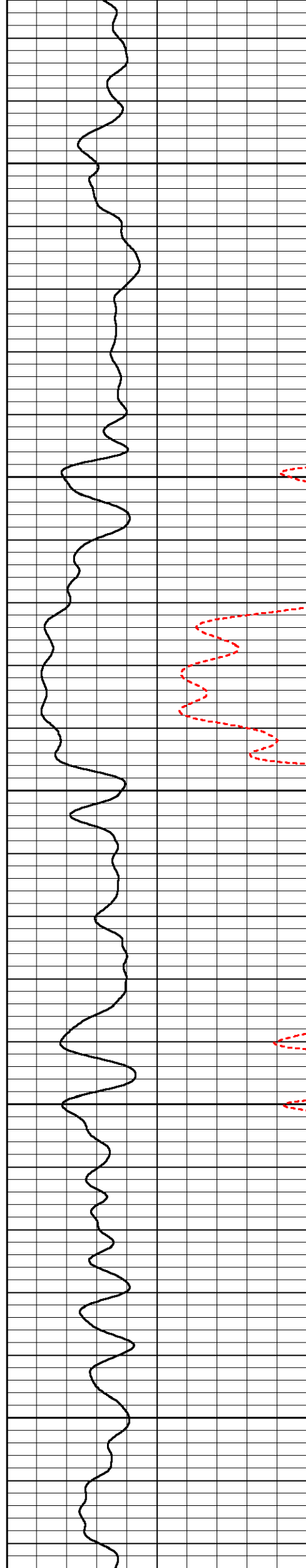


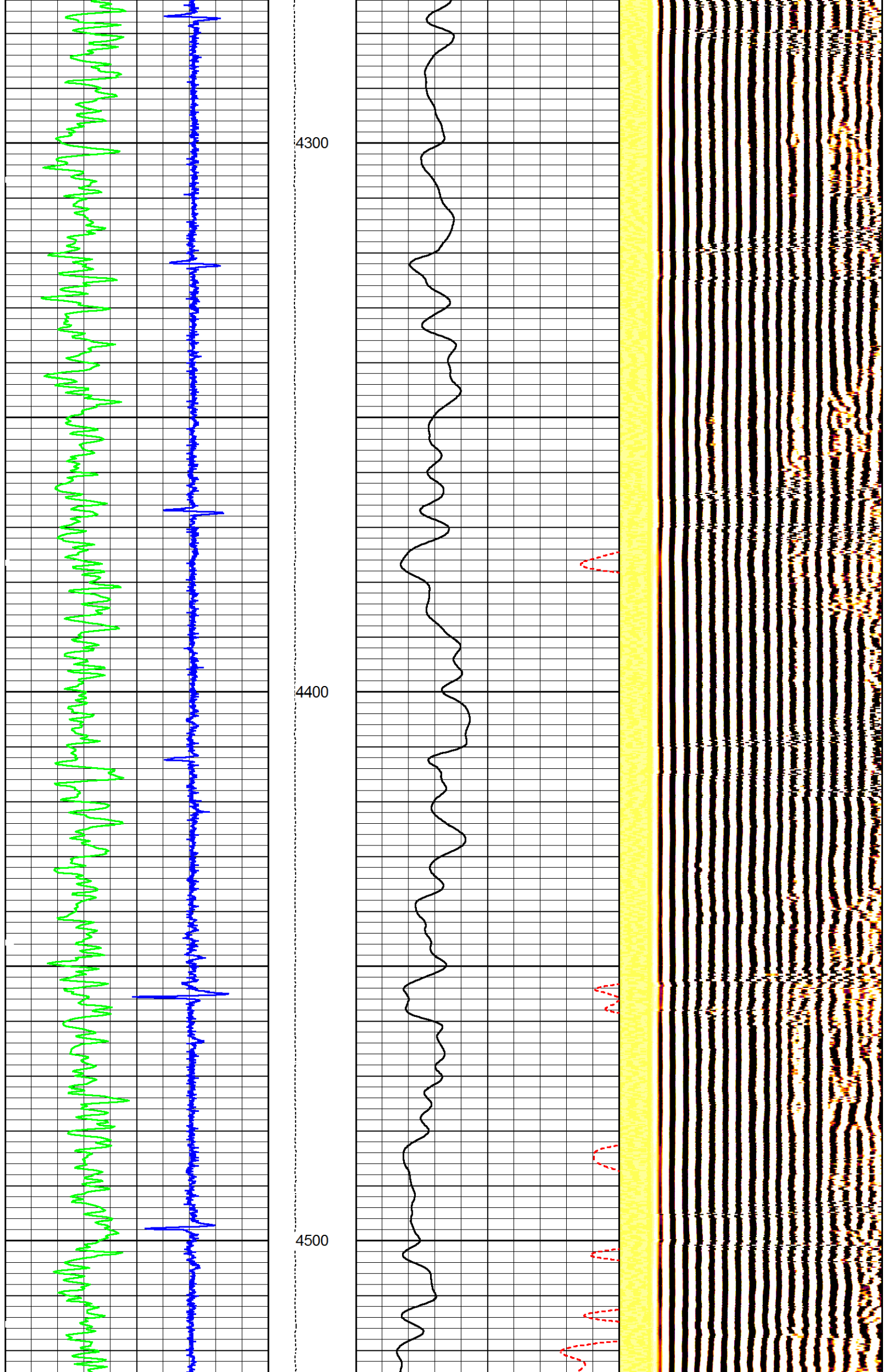


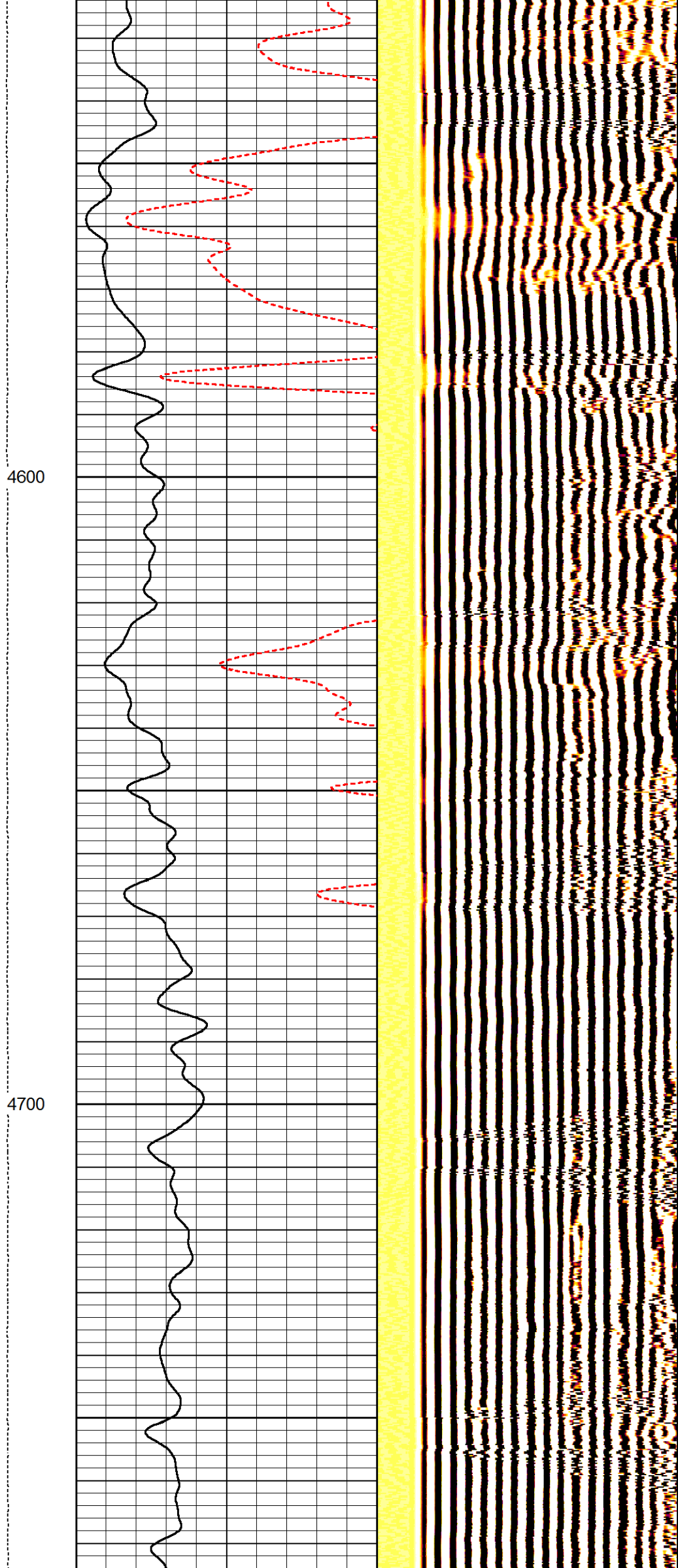
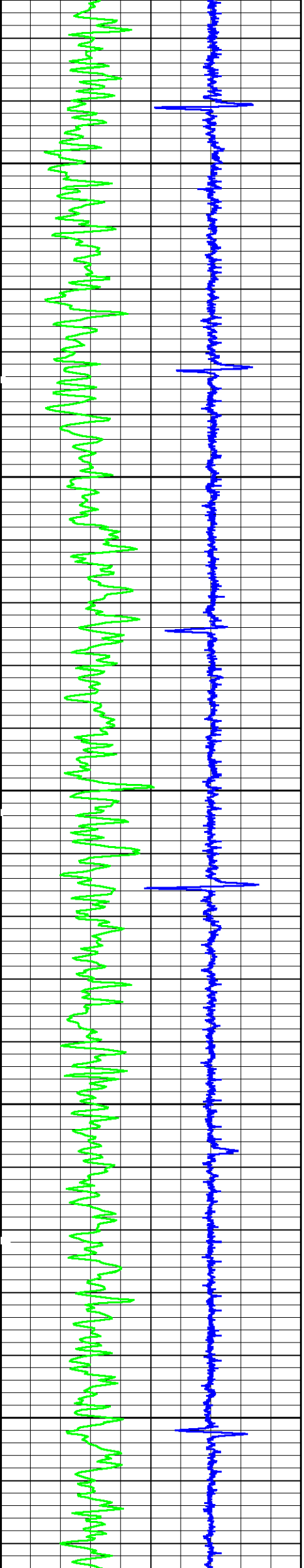


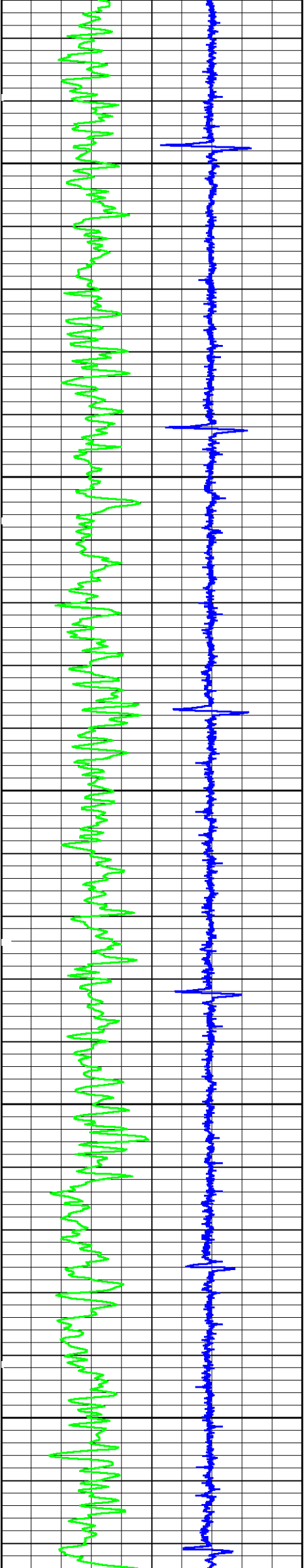
4100

4200





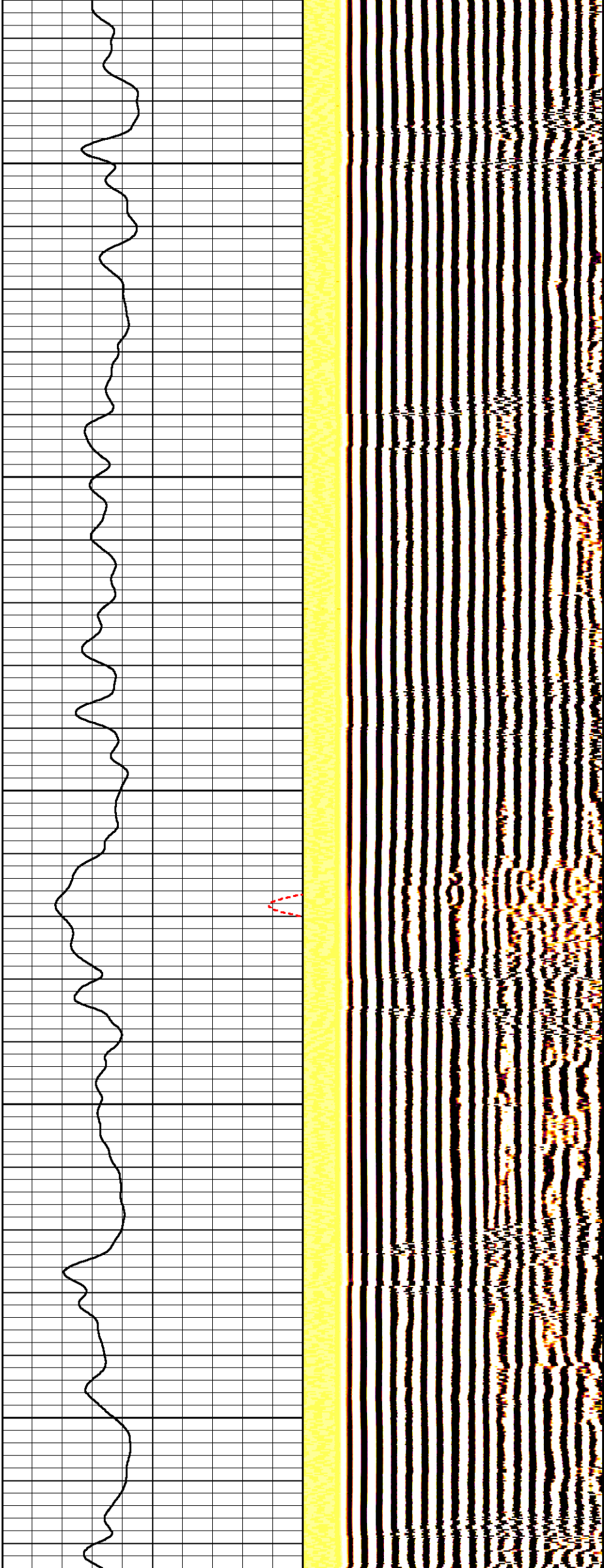


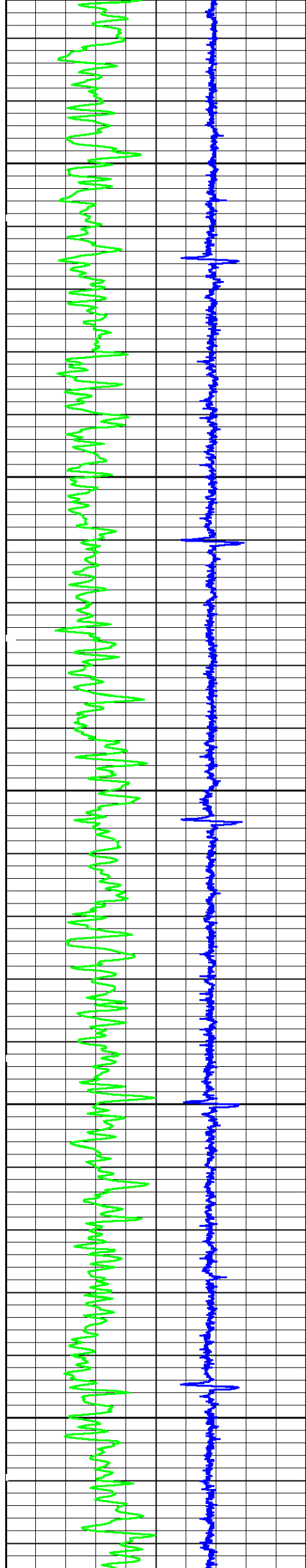


4800

4900

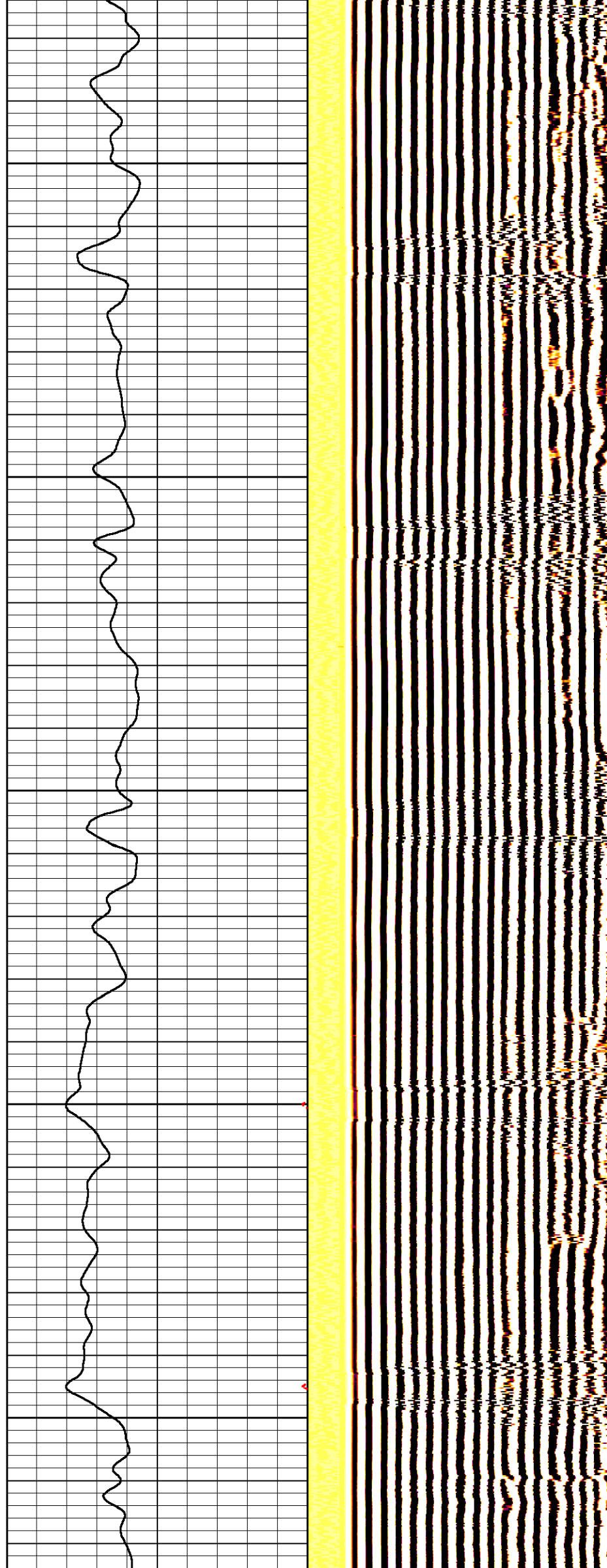
5000

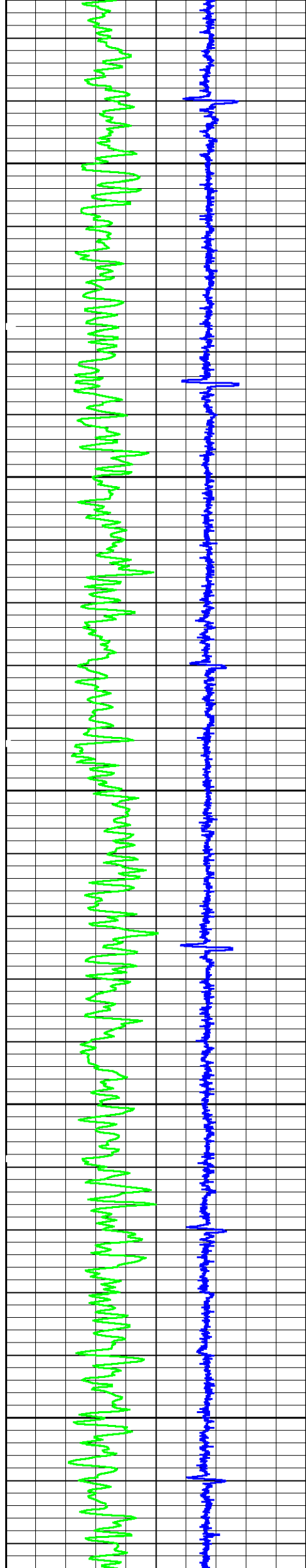




5100

5200

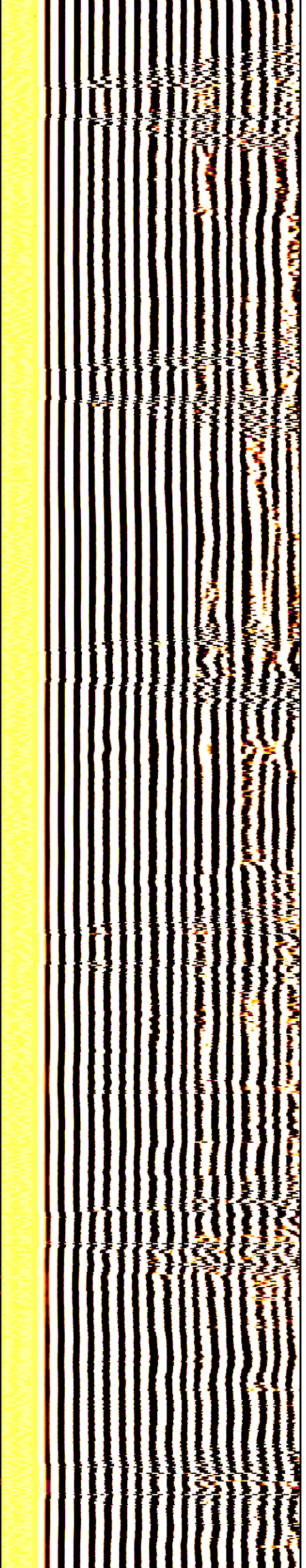
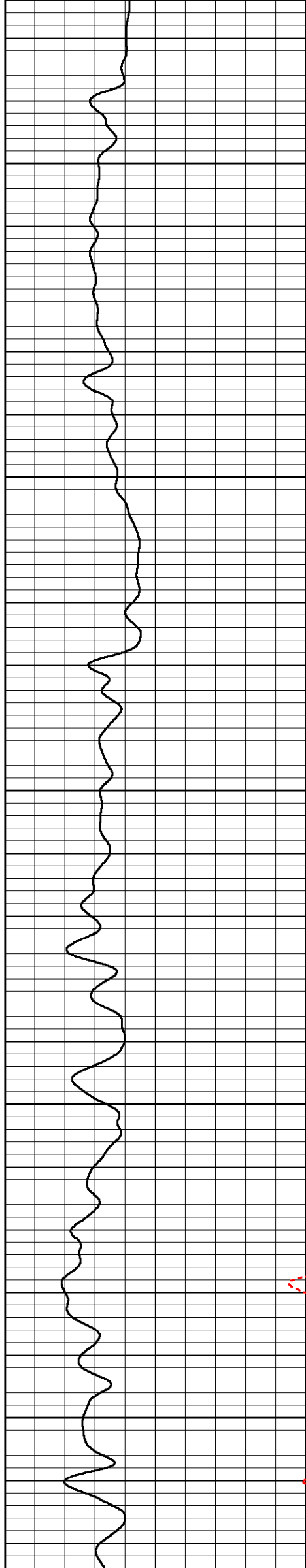


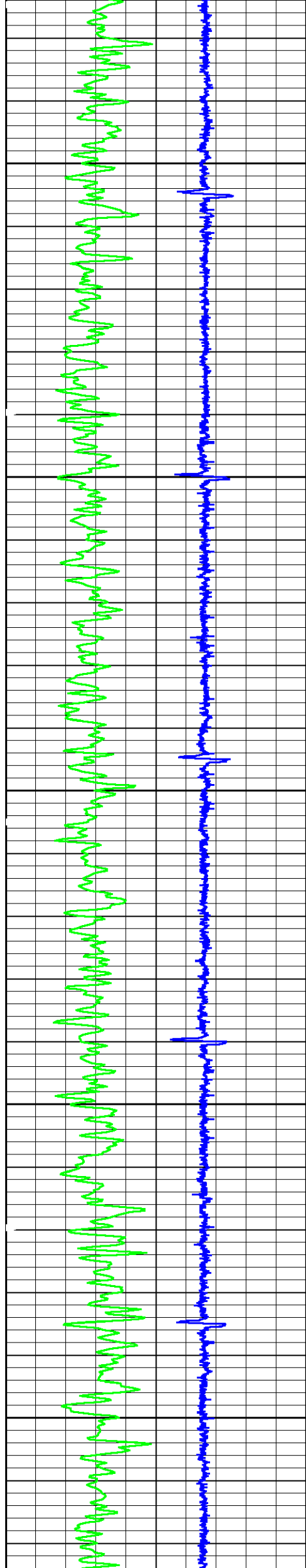


5300

5400

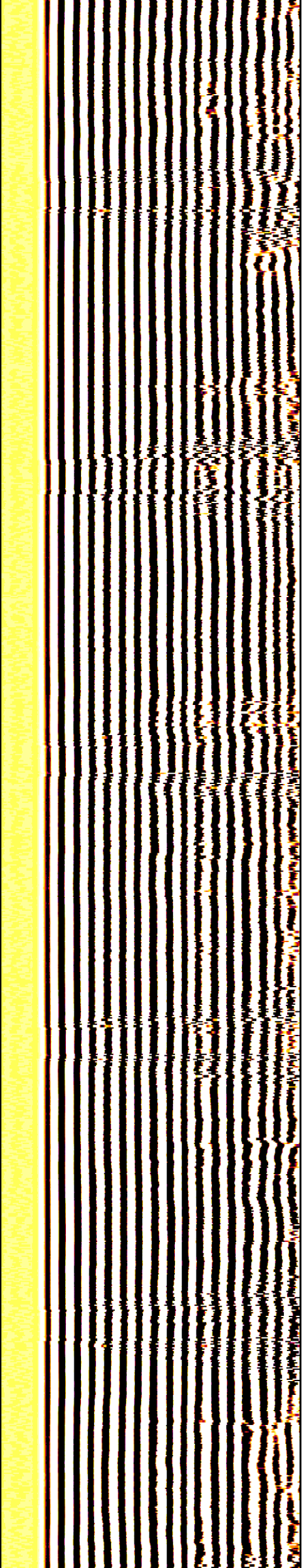
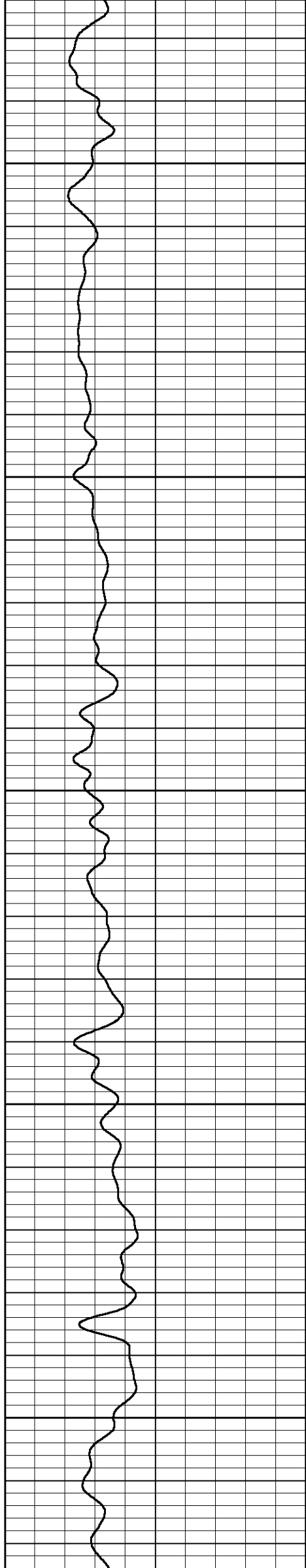
5500

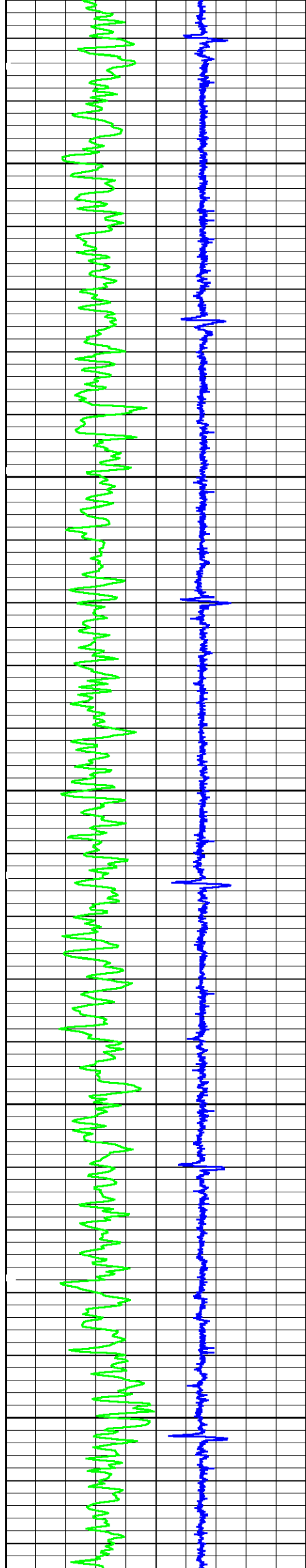




5600

5700

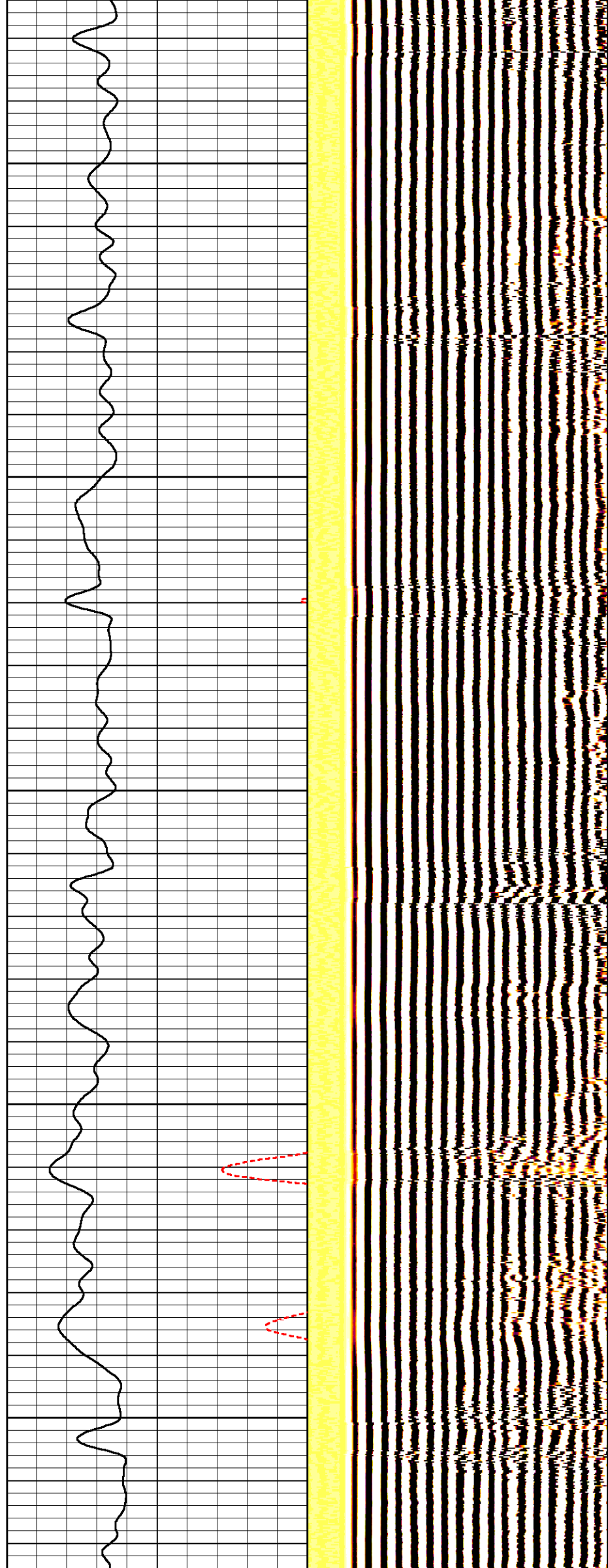


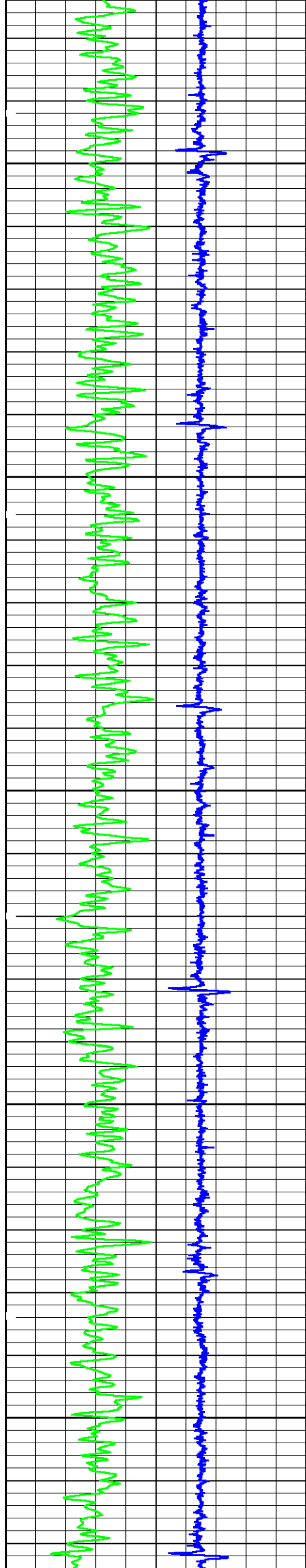


5800

5900

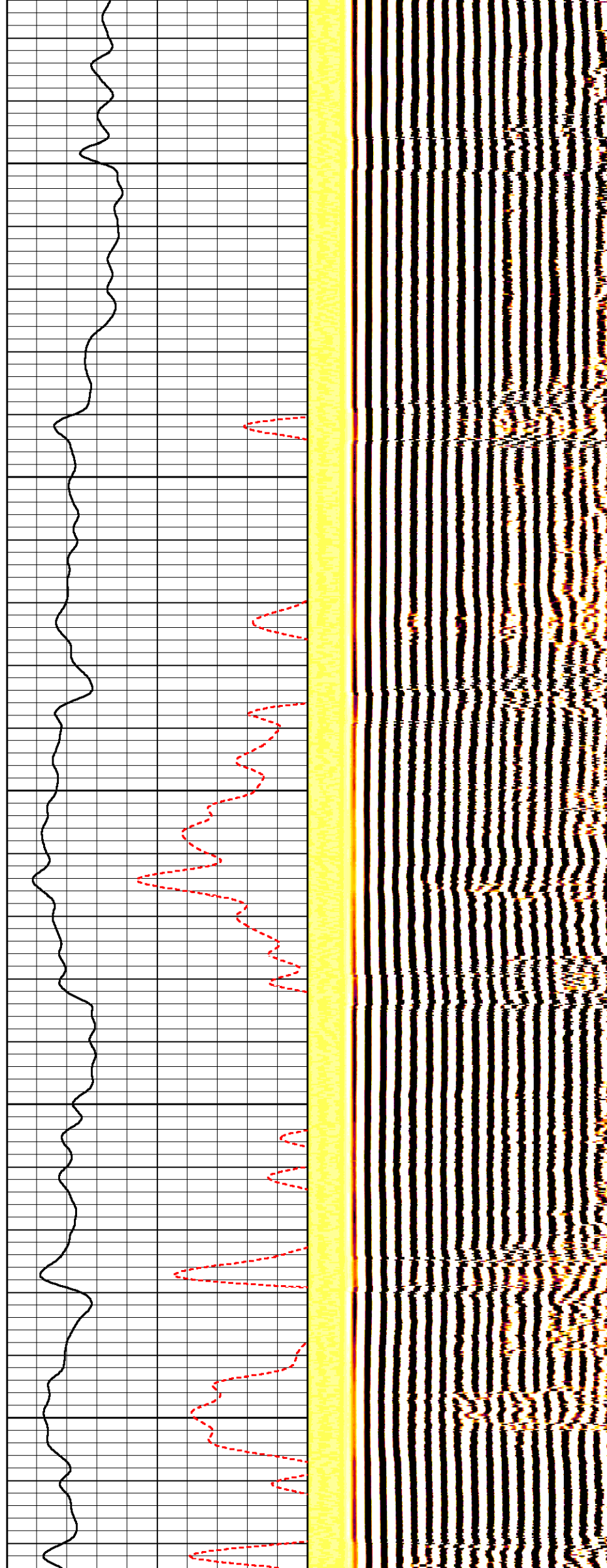
6000

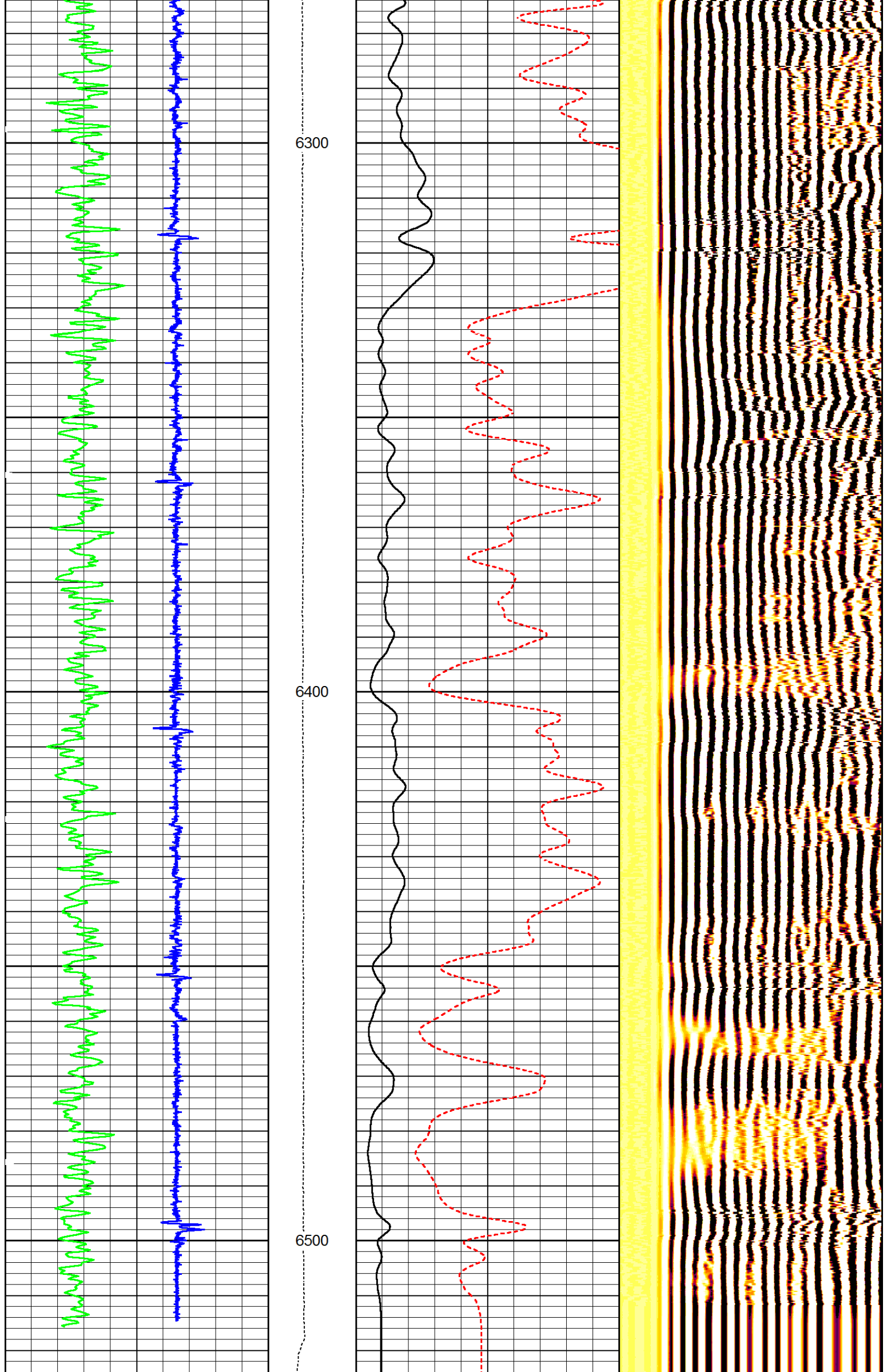




6100

6200





3' Travel Time			LTEN		0	3' Amplitude (mV)		100	200	MSG	1200
15900	CCL	16900	0	(lb3000	0	3' Amplitude X5 (mV)		20	10		500
0			Gamma Ray (GAPI)		150						

MAIN PASS (0 PSI)

HALLIBURTON

5" = 100'

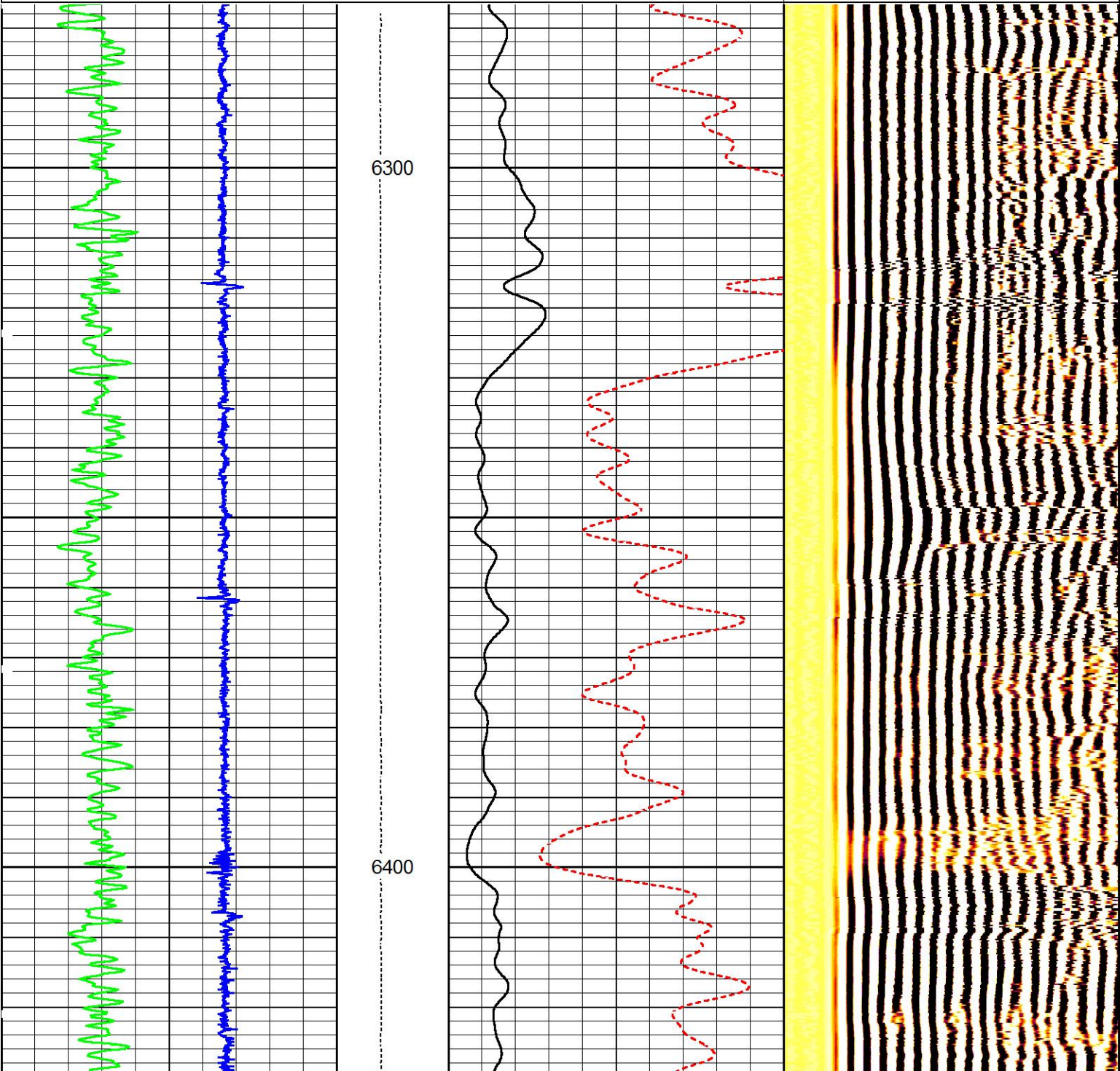
REPEAT PASS (0 PSI)

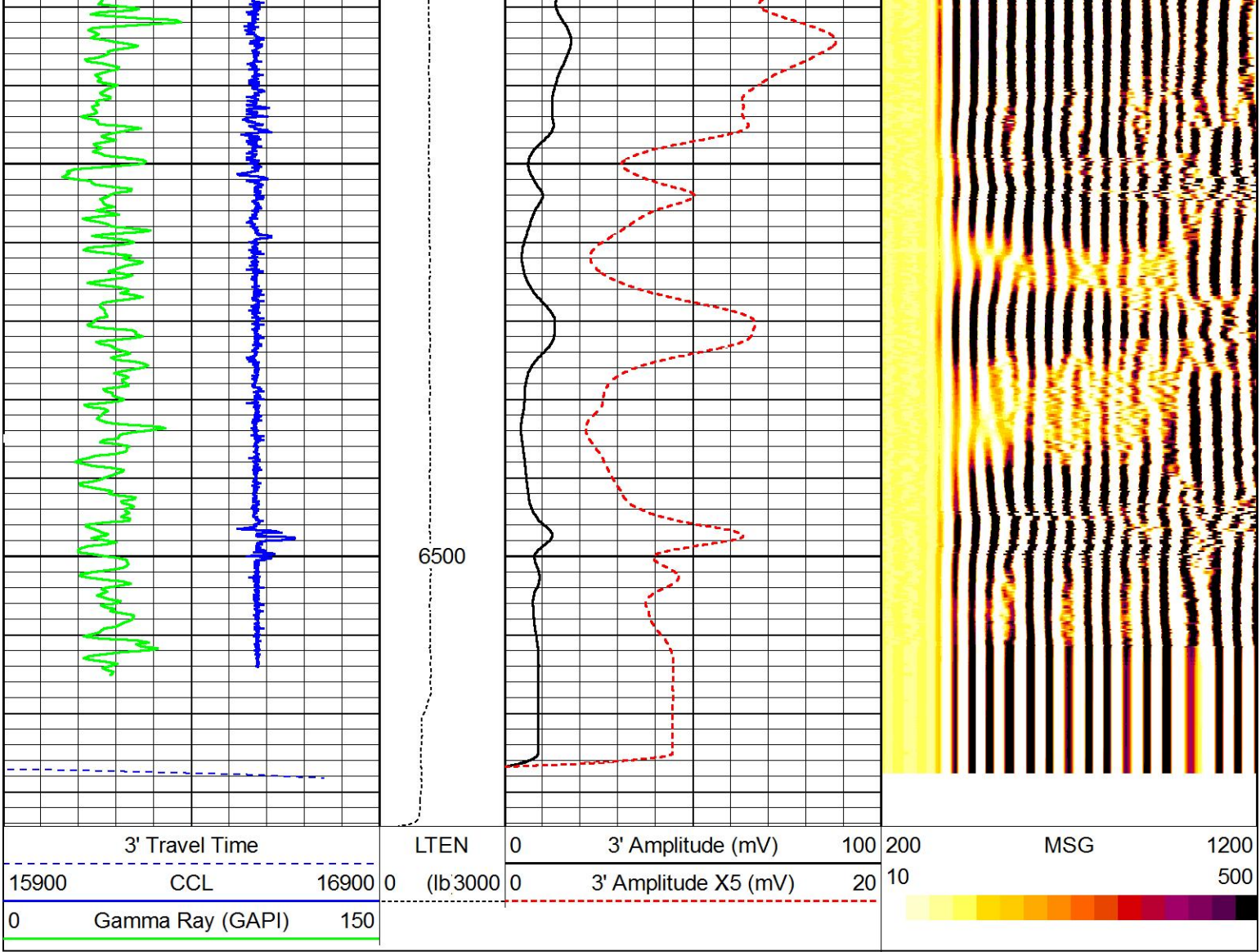
HALLIBURTON

5" = 100'

Database File	11n-7a-m.db
Dataset Pathname	BP/pass7
Presentation Format	1 synergy cbl
Dataset Creation	Thu Aug 04 00:20:01 2016
Charted by	Depth in Feet scaled 1:240

3' Travel Time			LTEN		0	3' Amplitude (mV)		100	200	MSG	1200
15900	CCL	16900	0	(lb3000	0	3' Amplitude X5 (mV)		20	10		500
0			Gamma Ray (GAPI)		150						





REPEAT PASS (0 PSI)

HALLIBURTON

5" = 100'

Log Variables DatabaseD:\Warrior_data\11n-7a-m.db
Dataset field/well/BP/main2/_vars_

Top - Bottom

BHTEMP_Src ITEMPX	PPT usec 0	CASEWGHT lb/ft 17	MAXAMPL mV 72	MINAMPL mV 1	MINATTN db/ft 0.8	SRFTEMP degF 0	MudWgt lb/gal 8.5
CASETHCK in 0.304	CASEOD in 5.5	PERFS 0	TDEPTH ft 6500	BOTTEMP degF 250	BITSIZE in 7.875		

Calibration Report

Database File 11n-7a-m.db
Dataset Pathname BP/main2
Dataset Creation Thu Aug 04 04:20:48 2016

Segmented Cement Bond Log Calibration Report

Serial Number: 000001
Tool Model: 004

Calibration Casing Diameter: 5.500 in
Calibration Depth: 480.220 ft

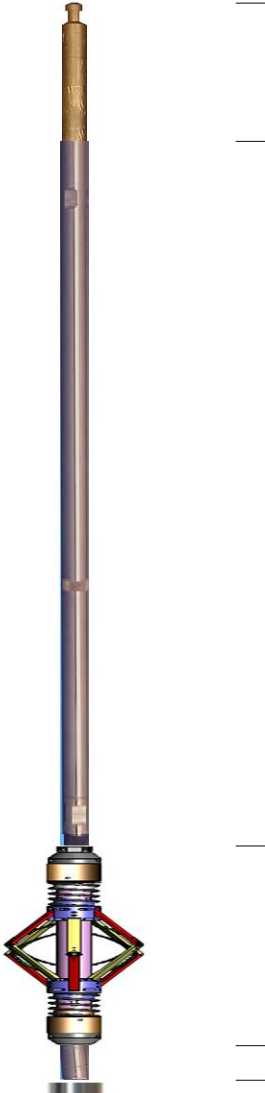
Master Calibration, performed Wed Aug 03 08:06:46 2016:

Raw (u) Calibrated (mv) Results

	Raw (v)		Calibrated (mV)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.000	0.849	0.000	72.000	84.826	0.000
5FT	0.000	1.343	0.000	72.000	53.621	0.000
S1	0.000	0.824	0.000	72.000	87.414	0.000
S2	0.000	0.818	0.000	72.000	88.044	0.000
S3	0.000	0.833	0.000	72.000	86.397	0.000
S4	0.000	0.856	0.000	72.000	84.129	0.000
S5	0.000	0.874	0.000	72.000	82.374	0.000
S6	0.000	0.874	0.000	72.000	82.334	0.000
S7	0.000	0.847	0.000	72.000	84.972	0.000
S8	0.000	0.825	0.000	72.000	87.281	0.000

Calibration Report			
		Serial Number:	000001
		Tool Model:	004
		Performed:	
		Reference (degF)	Reading ()
Low:		33.000	512.000
High:		345.000	850.000
		Gain = 0.923	Offset = -439.615

Gamma Ray Calibration Report						
Serial Number:		10009835				
Tool Model:		002				
Performed:		Thu May 12 12:53:25 2016				
Calibrator Value:		155.0	GAPI			
Background Reading:		47.8	cps			
Calibrator Reading:		208.4	cps			
Sensitivity:		0.9654	GAPI/cps			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	20.02		STNDCH-STND_CH Fishing Neck	1.50	2.00	1.00
			TTTCU-002 (10009835) Through Tubing Telemetry Cartridge - Ultrawire	7.65	1.69	100.00
GR	17.76		CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
			AUH-001 (000001) Adaptor Ultrawire/Halliburton	0.38	1.69	3.00

CBLTEMP	7.55		RBT-004 (000001) Radial Bond Tool (UW 3 1/8) 20K Rated	9.48	3.13	140.00
			CENT-CSS169Roller CSS 1 11/16" ROLLER CENTRALIZER	2.20	1.69	4.41
			BUL-006 (000002) Bullnose Terminator	0.22	1.69	1.20
<div>Dataset: 11n-7a-m.db: field/well/BP/main2 Total length: 23.59 ft Total weight: 274.61 lb O.D.: 3.13 in</div>						

Company	SYNERGY RESOURCES CORP.				
Well	FAGERBERG 11N-7A-M				
Field	WATTENBERG				
County	WELD	State	CO		
HALLIBURTON	CEMENT BOND LOG				