



RADIAL CEMENT BOND LOG
GAMMA RAY
CCL

Company	SRC ENERGY INC
Well	LEFFLER 41N-23C-L
Field	WATTENBERG
County	WELD
State	COLORADO

State	COLORADO	Country	USA
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Location: API #: 05123

SHL: 1901' FNL & 275' FEL
SENE

SEC 21 TWP 6N RGE 66W

Permanent Datum	GL	Elevation	4748
Log Measured From	GL		
Drilling Measured From	KB		

Elevation	K.B. N/A D.F. N/A G.L. 4,748'
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Date	SEPTEMBER 27, 2017
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Run Number	ONE
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Depth	9999	6 648'
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Bottom Logged Interval	0,046
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Open Hole Size	8.5"
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Density / Viscosity	INK
Density	1.000
Viscosity	1.000

Max. Recorded Temp.	UNK
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Time Well Ready	ROA
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Equipment Number	1008
Little League Oil Bottle	07.13

Location	BRIGHTON, CO
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Witnessed By	TOM ELYNN
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[illegible]

Run Number	Bit	From	To	S
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Casino Record	Size	Wet/Et
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Surface String	9625"	36#
Commonly known as	0120	nylon 6

Prot. String		
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Production String	5.5"	20#
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Liner		
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Comments

LOG MEASURED FROM GROUND LEVEL

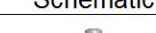
LOG CORRELATED TO MARKER JOINT @ 6348'

LOG RAN WITH 2,500 PSI APPLIED AT SURFACE

THANK YOU FOR CHOOSING PATRIOT WELL SOLUTIONS!

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
Cable_Head	20.17		Cable_Head-1_7/16 Titan 1 7/16" Cable Head	1.02	1.44	3.31
ErrCt	20.17					
CENT	19.15					

			CENT-PTS275	2.83	2.75	
RBT	16.32					
WVFS8	11.65		RBT-RBTC3 (FW1704-53) RADIAL BOND TOOL	8.92	2.75	90.00
WVFS7	11.65					
WVFS6	11.65					
WVFS5	11.65					
WVFS4	11.65					
WVFS3	11.65					
WVFS2	11.65					
WVFS1	11.65					
WVFCAL	11.65					
WVF3FT	11.65					
WVF5FT	10.65					
CENT	7.40					
			CENT-PTS275	2.83	2.75	
GR	4.57					
CCL\$2	3.63					
CCL\$1	3.63					
GR	2.38		GR-GC275 rev.2 (FW1607-001) Probe GC275-0000 rev.2	4.57	2.75	55.00
Dataset: leffler_41n_23c_l.db: field/well/rcbl/pass4 Total length: 20.17 ft Total weight: 148.31 lb O.D.: 2.75 in						



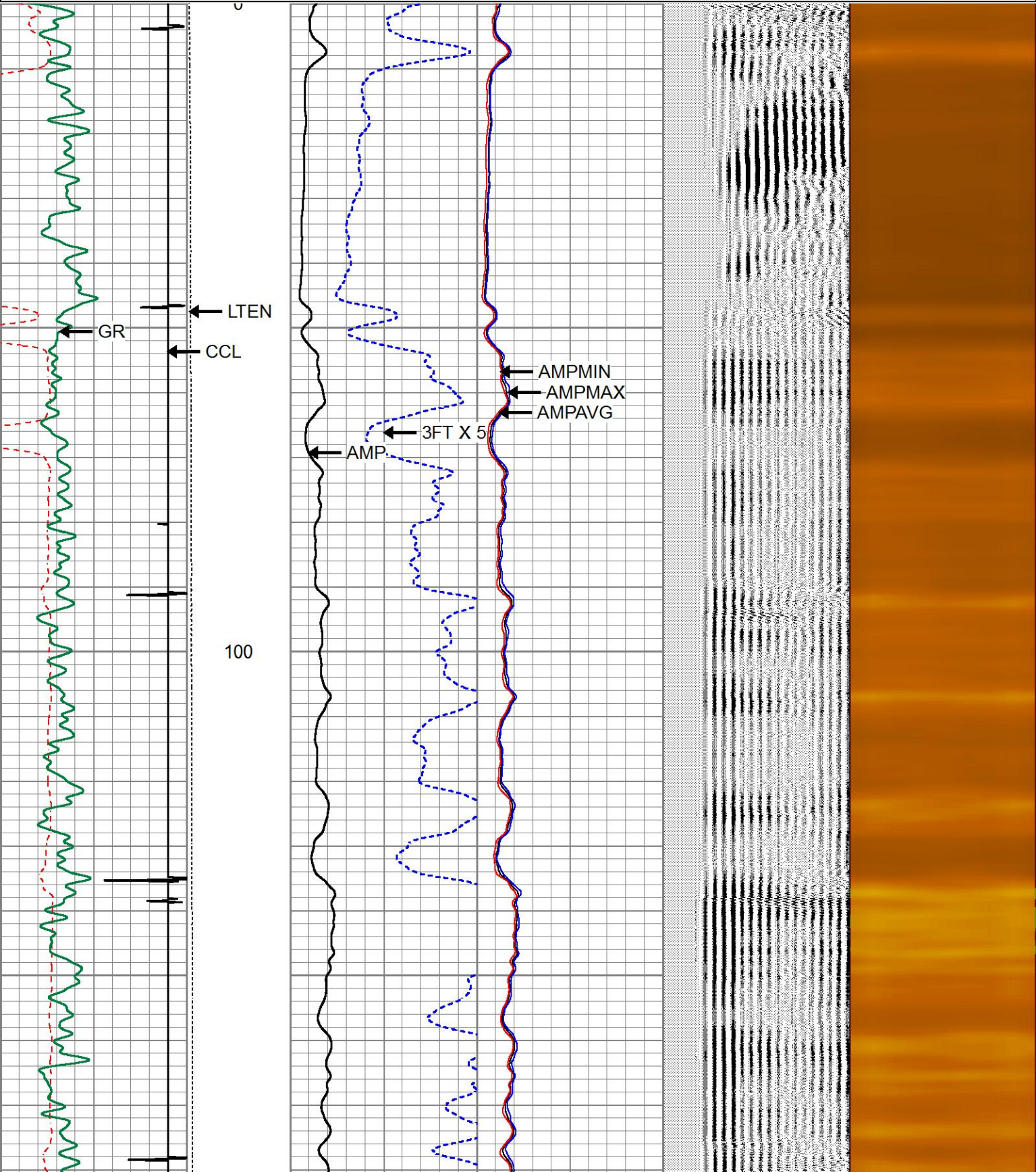
PATRIOT

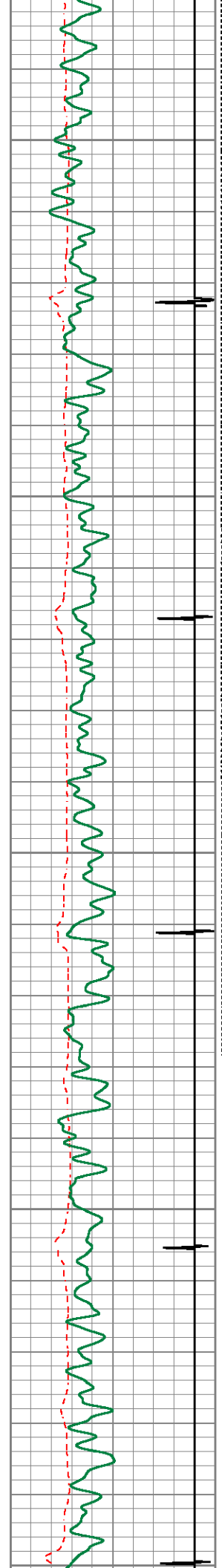
MAIN PASS

LOGGED WITH 2500 PSI APPLIED AT SURFACE

Database File leffler_41n_23c_l.db
Dataset Pathname rcbl/pass4
Presentation Format 1patriotradii
Dataset Creation Wed Sep 27 07:44:42 2017
Charted by Depth in Feet scaled 1:240

290	TT (usec)	190	LTEN	0	AMP (mV)	100	0	AMPAVG	150	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	150	0 (lb 1500)	0	3FT X 5 (mV)	20	0	AMPMAX	150						
2.7	CCL	-0.3					0	AMPMIN	150						

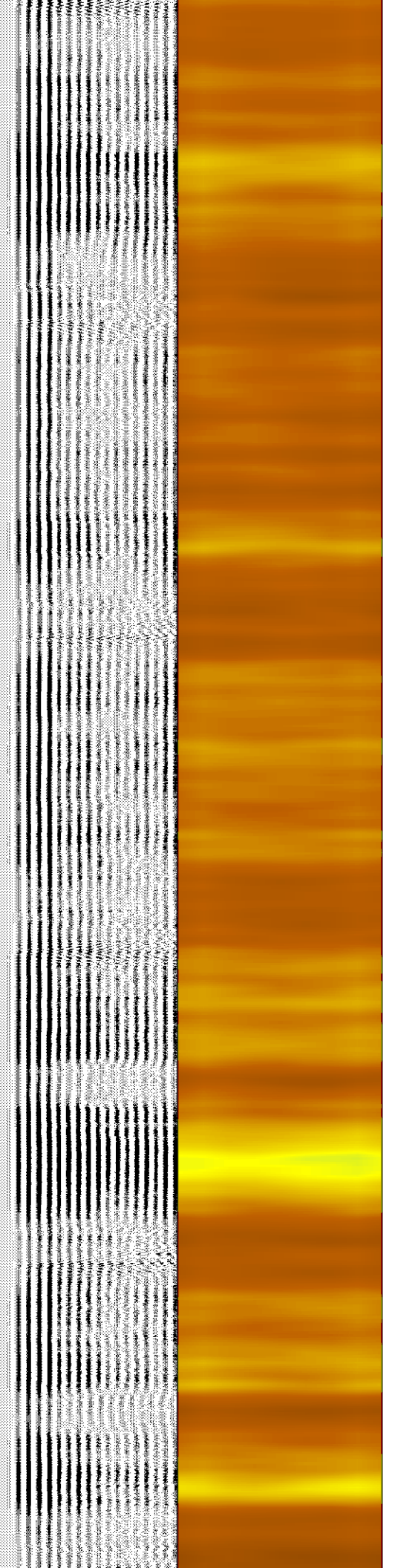
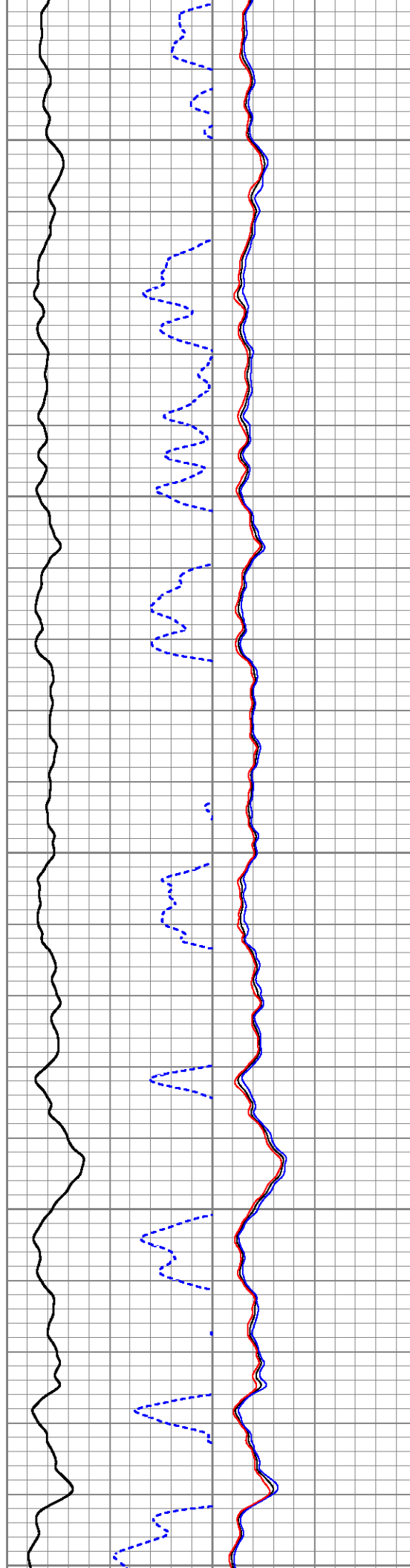




200

300

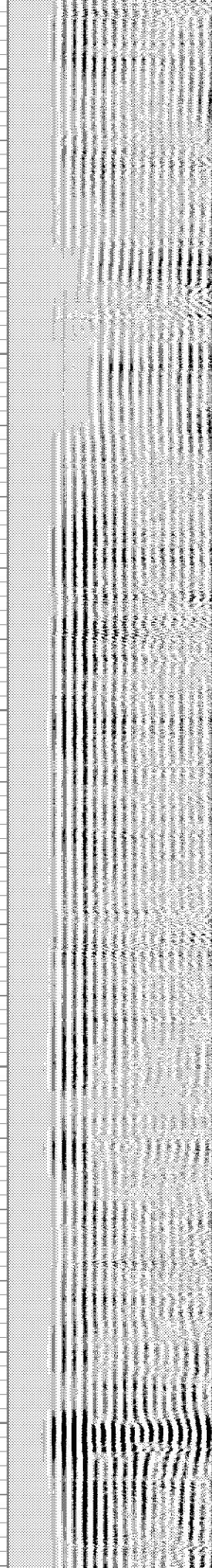
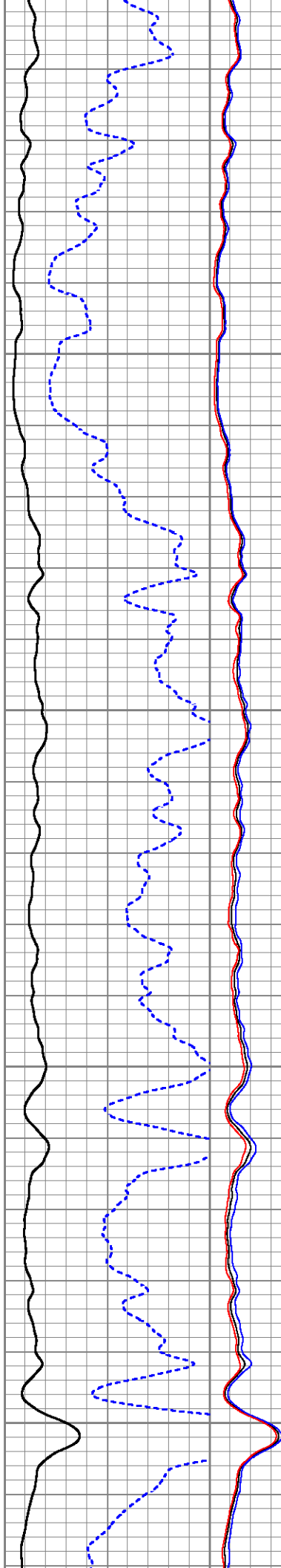
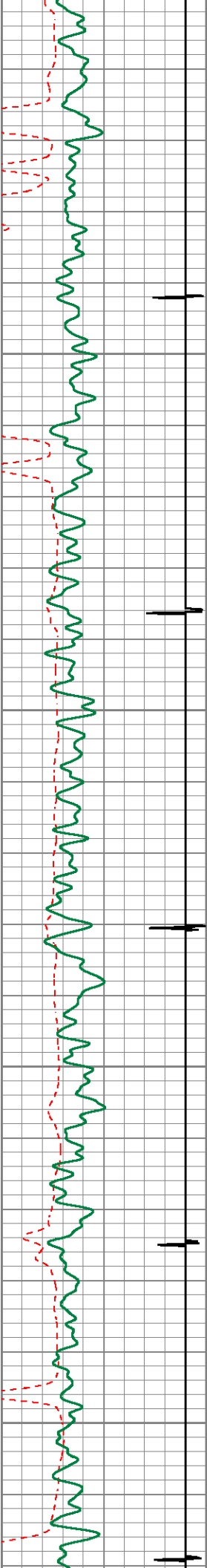
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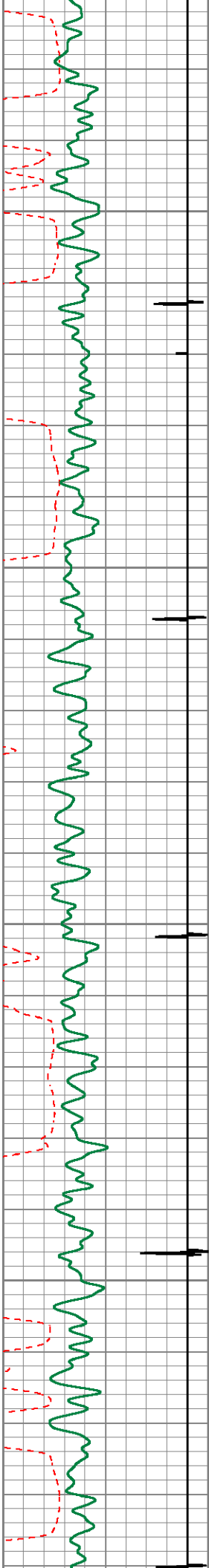


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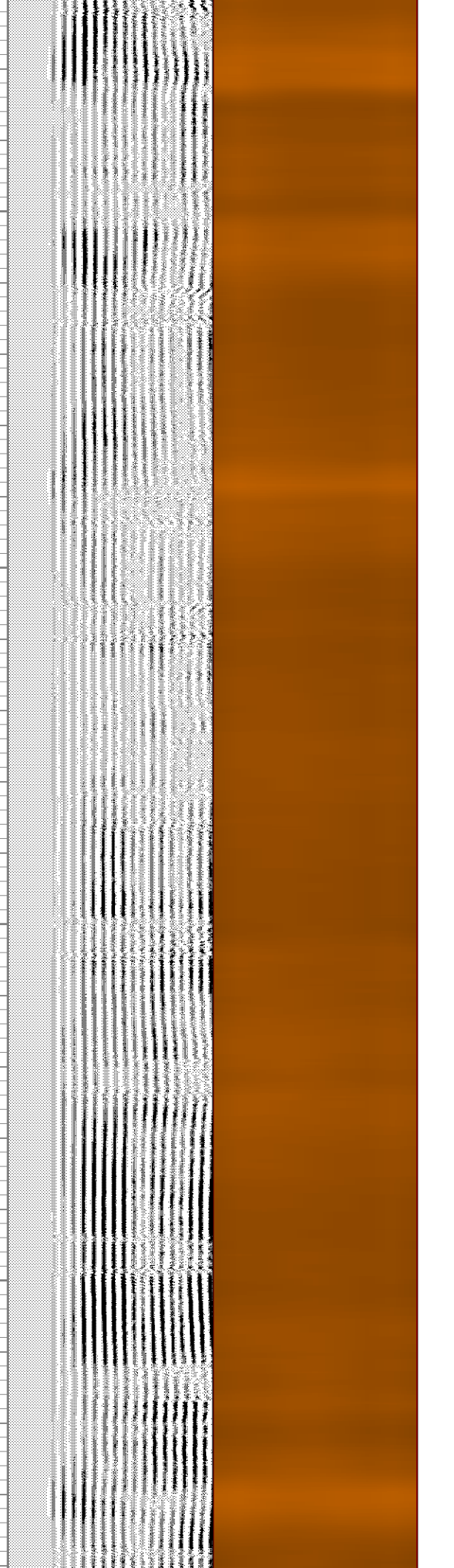
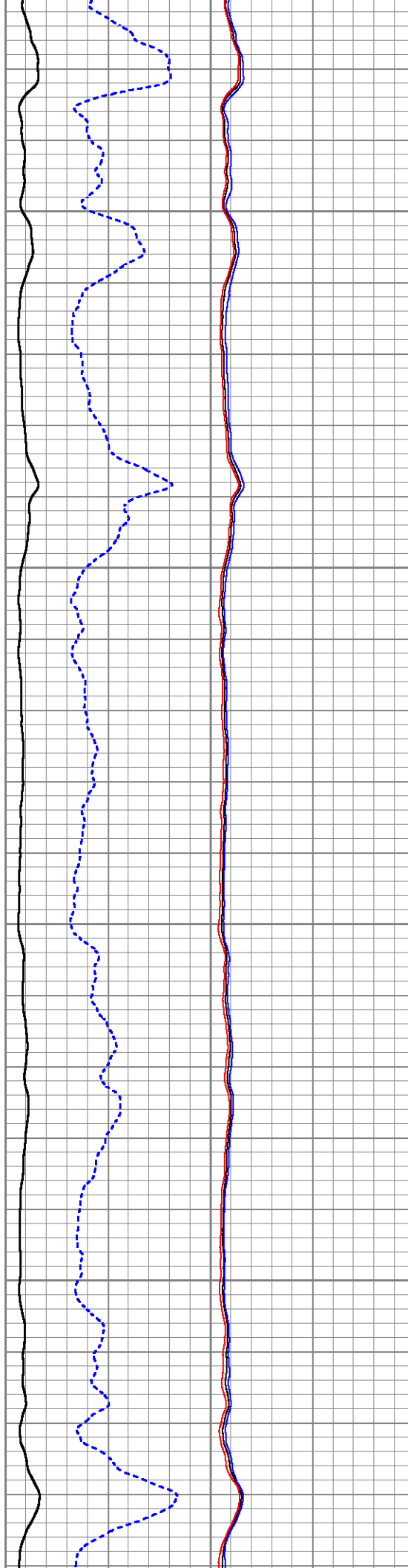
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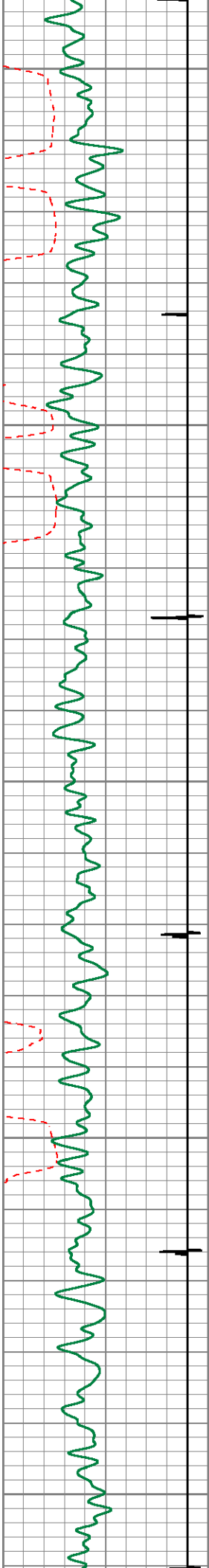




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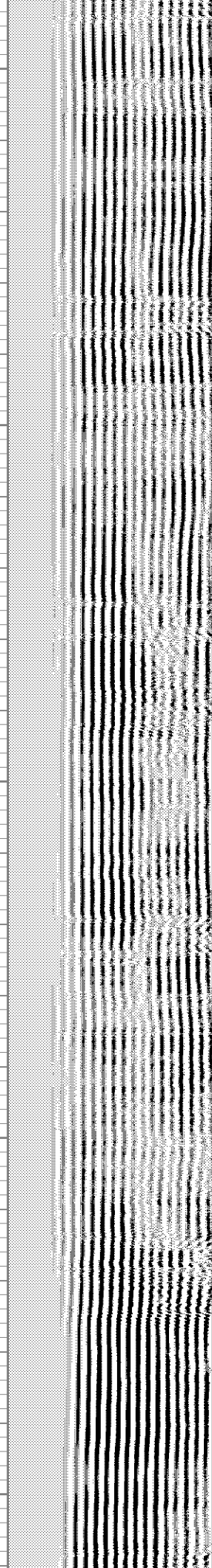
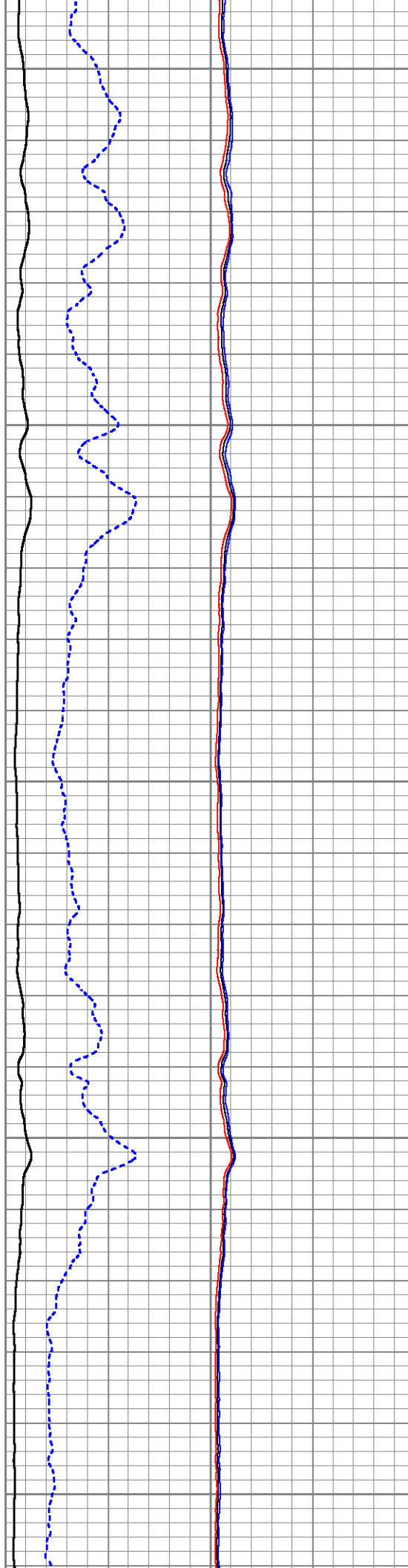
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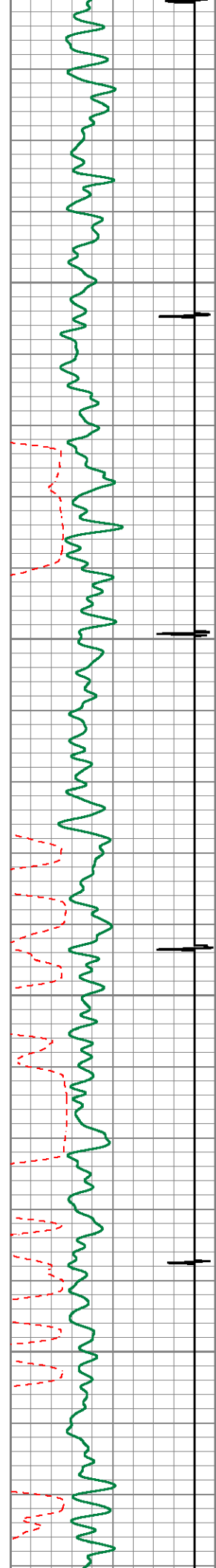




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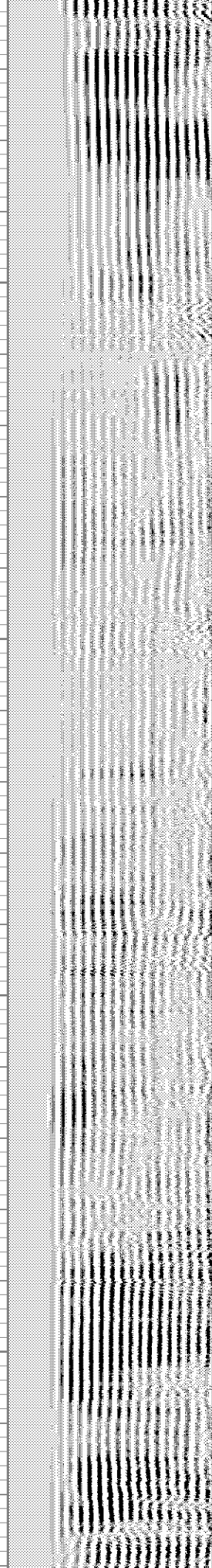
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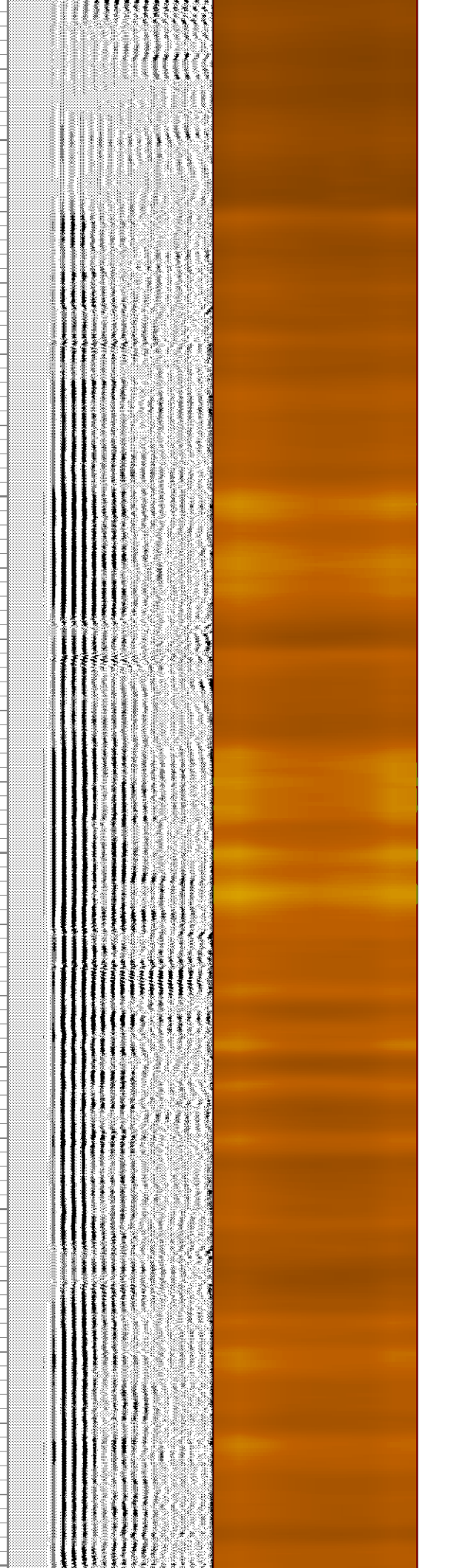
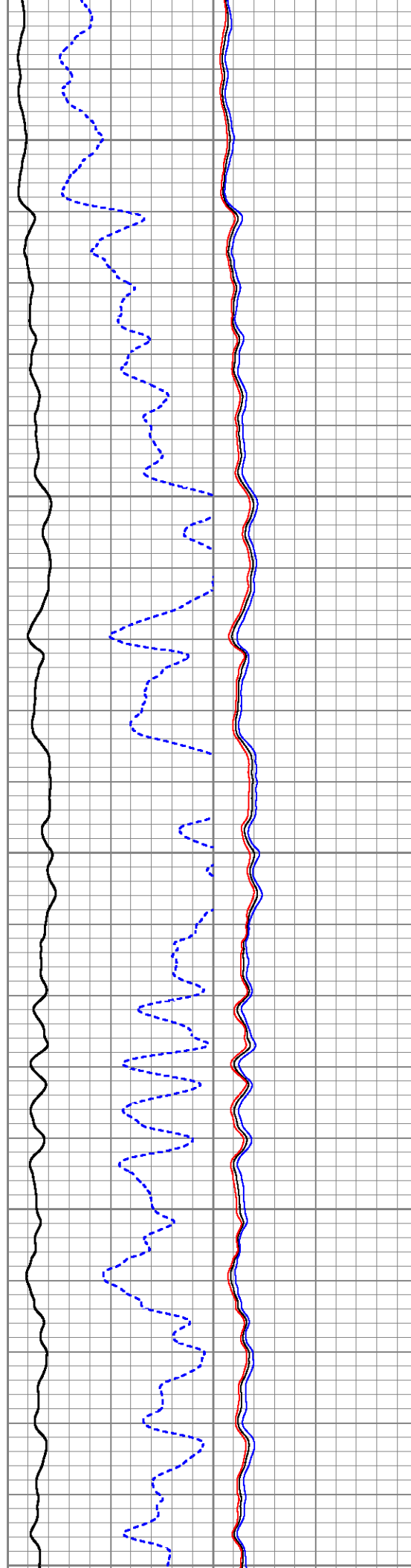
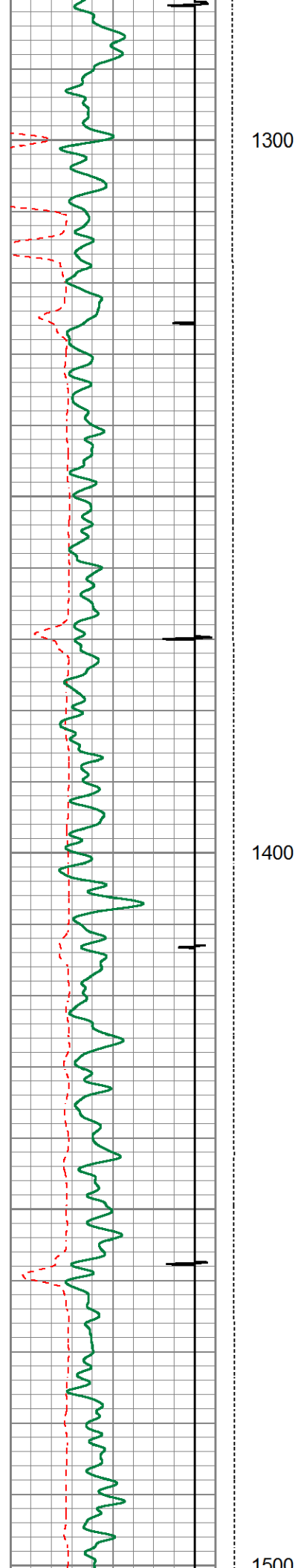


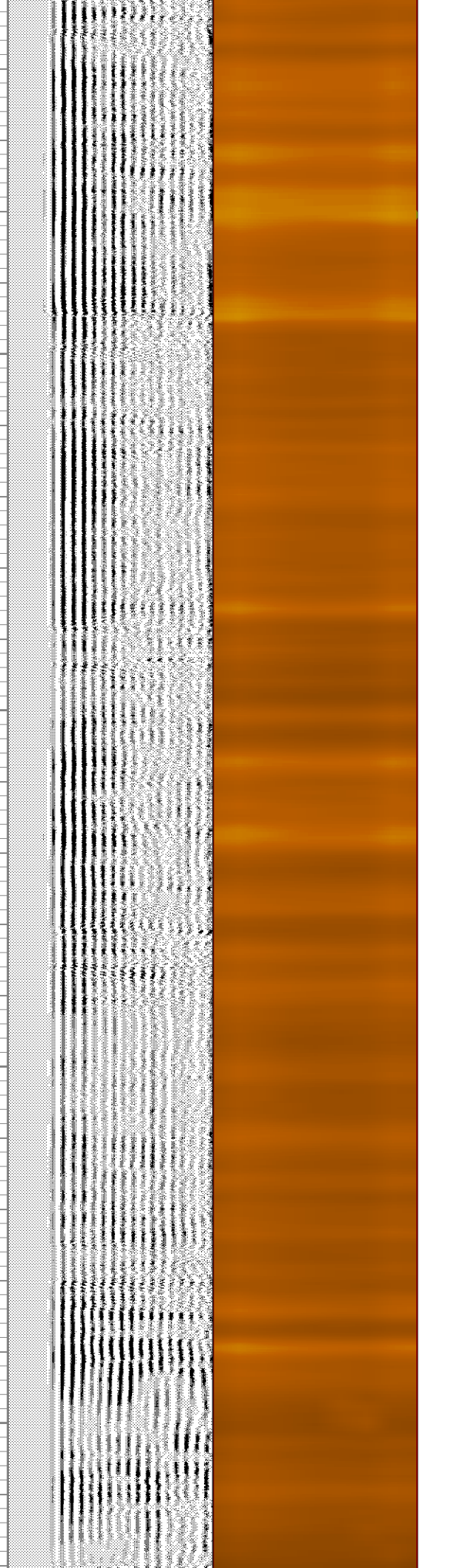
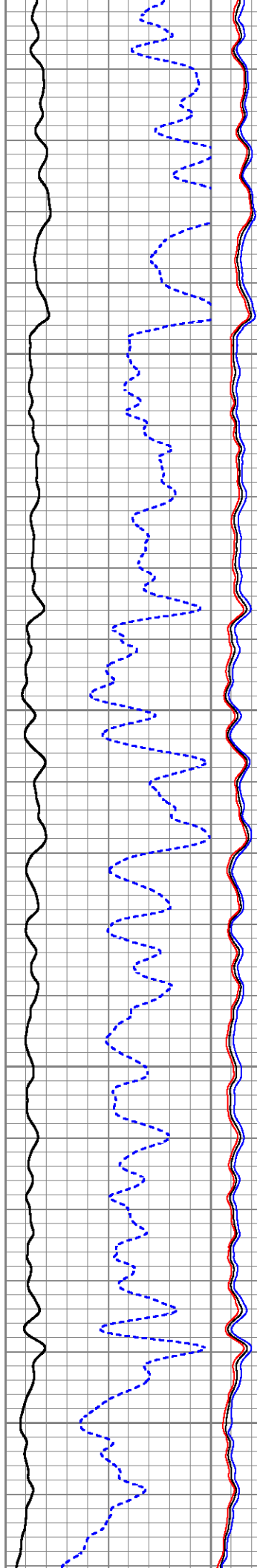
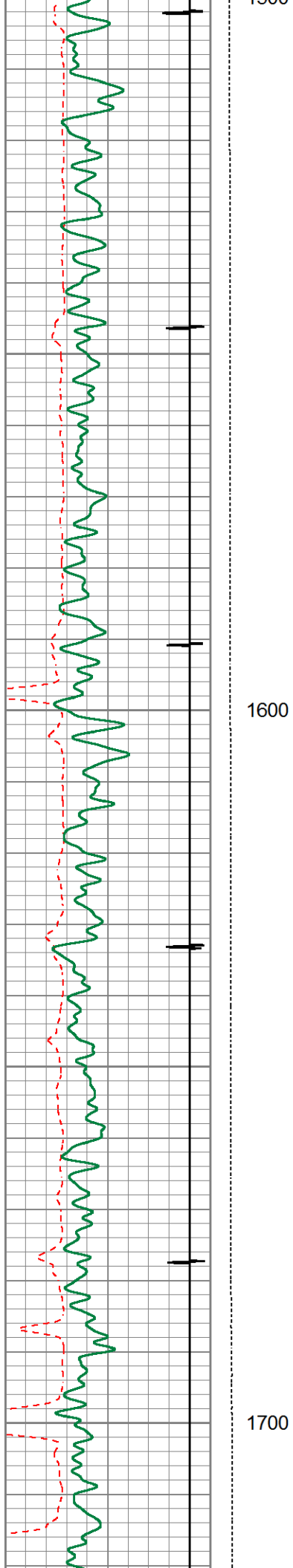


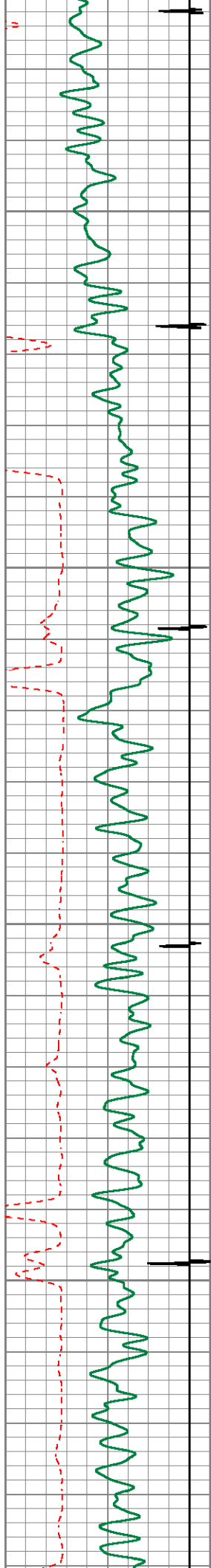
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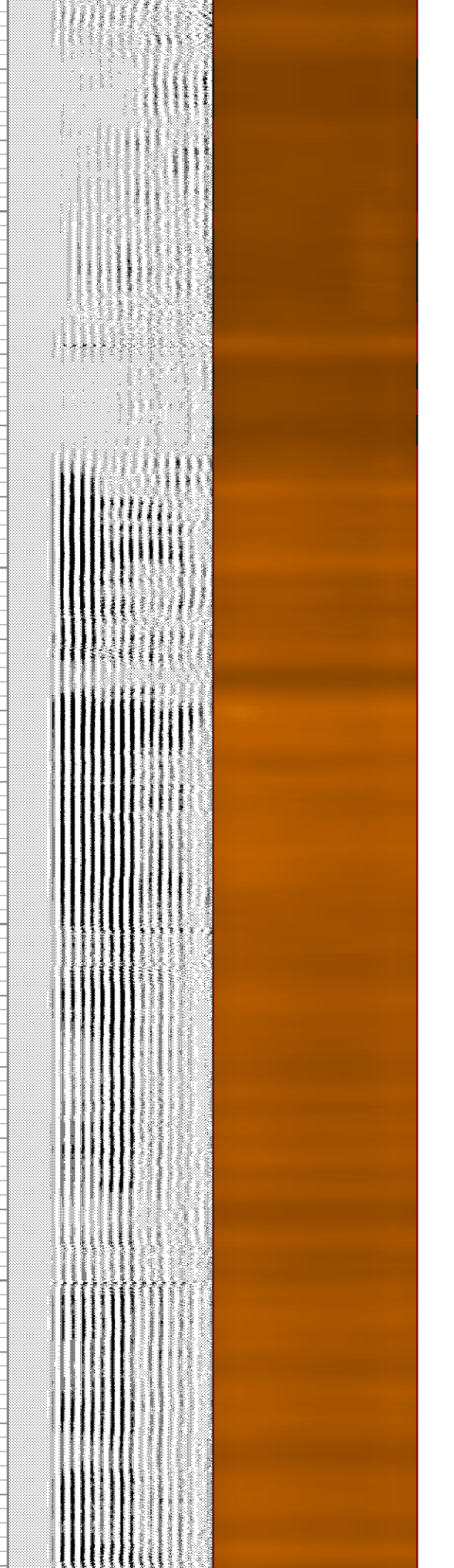
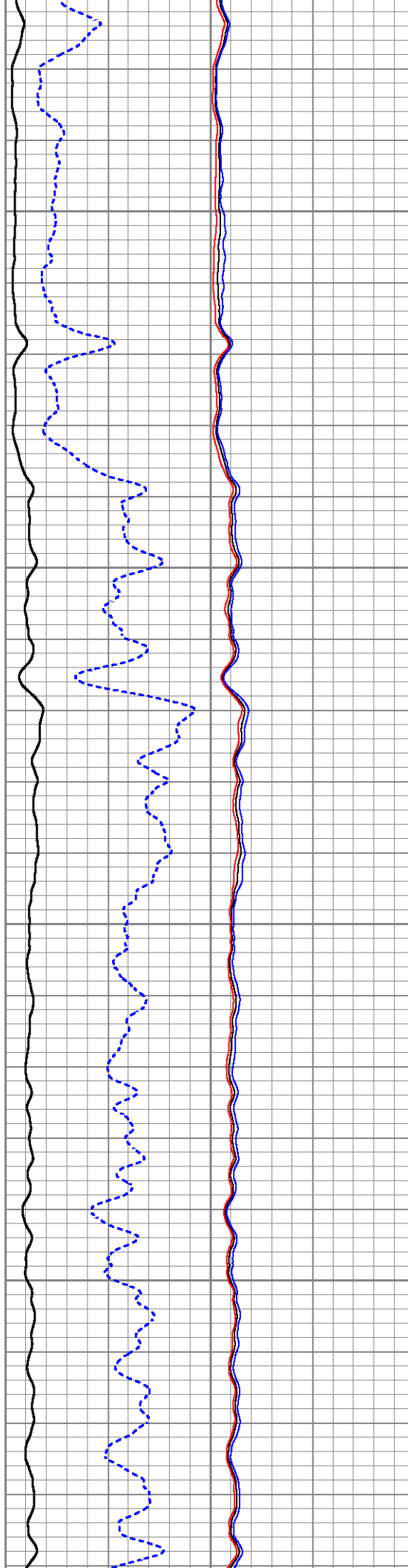


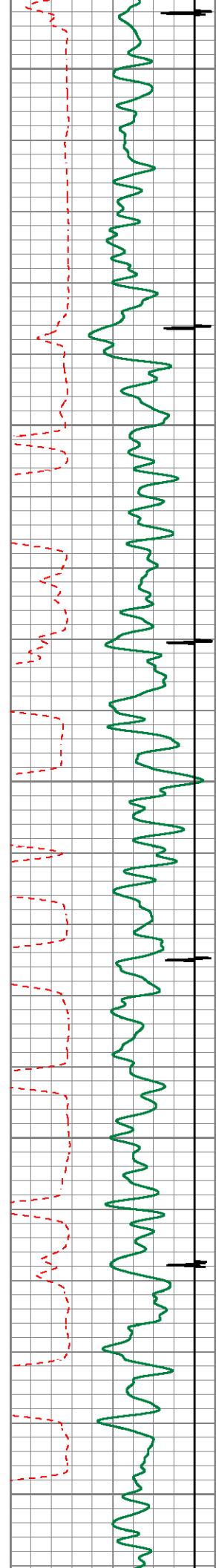




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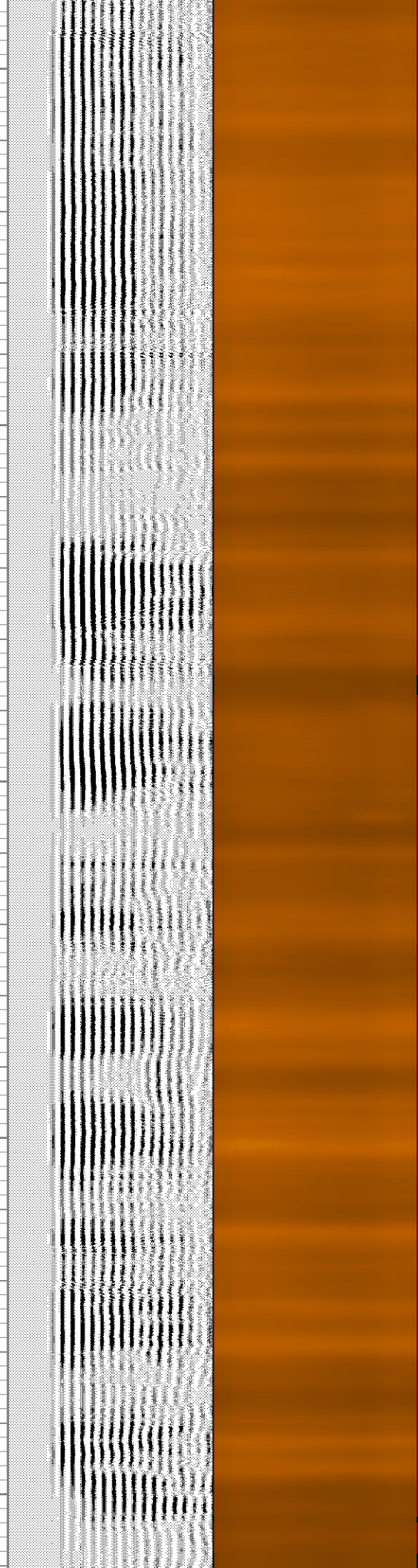
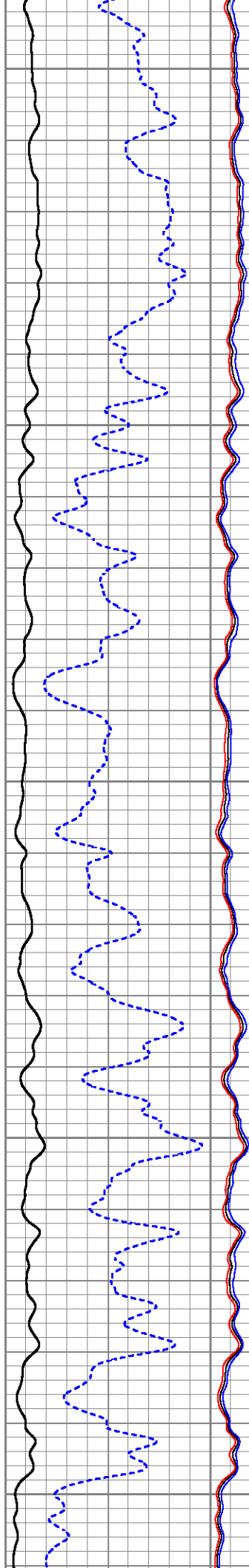
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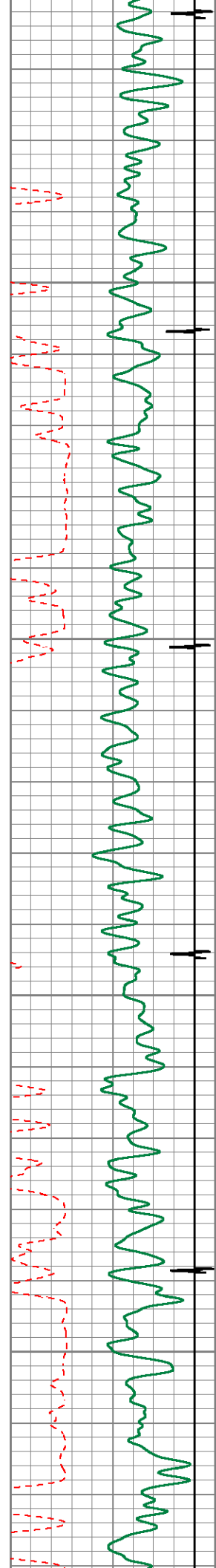




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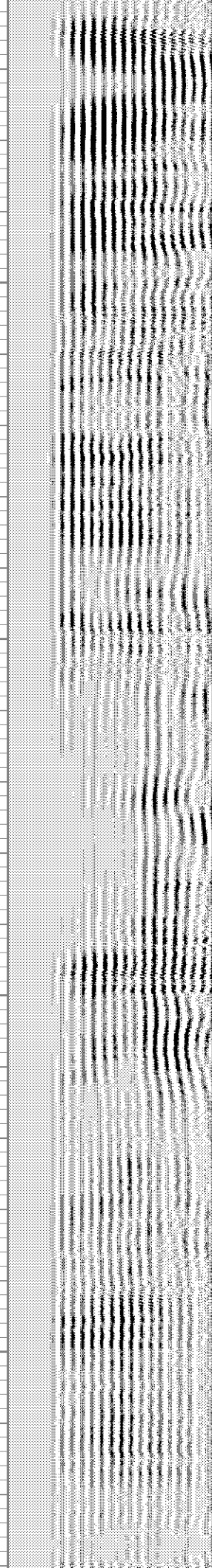
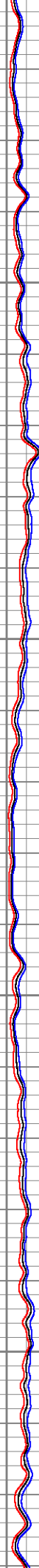
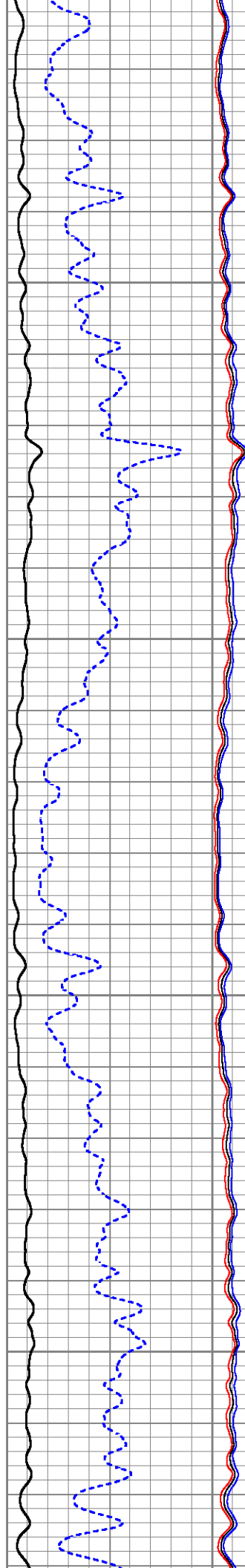
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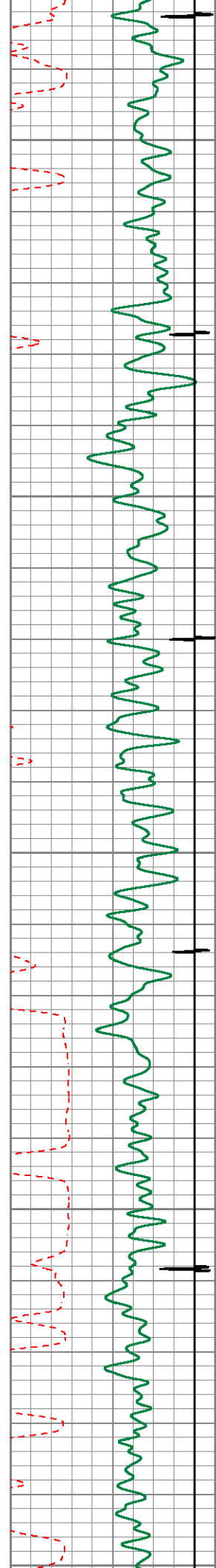




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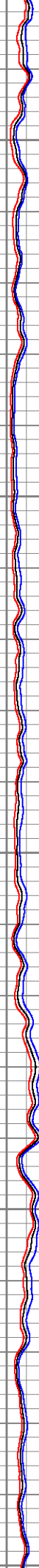
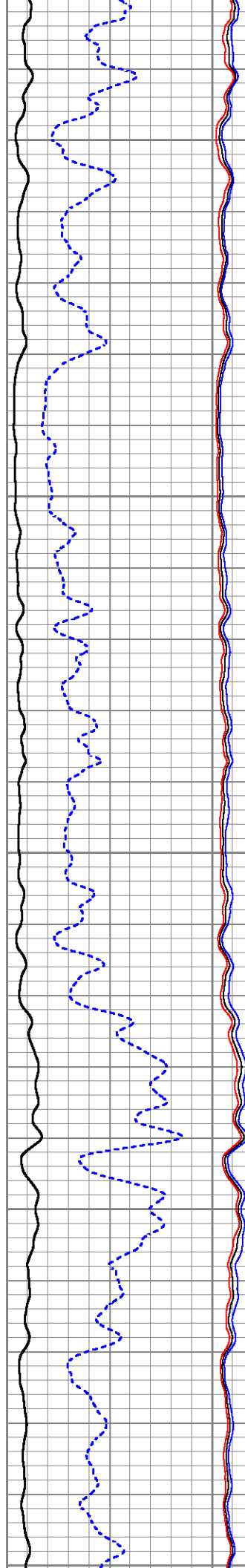


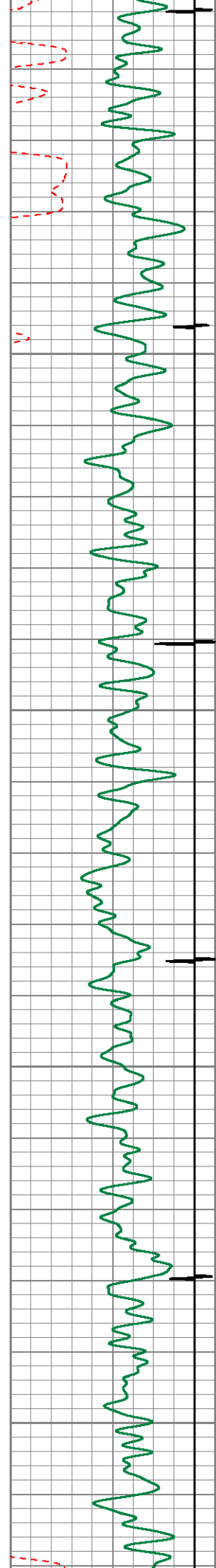


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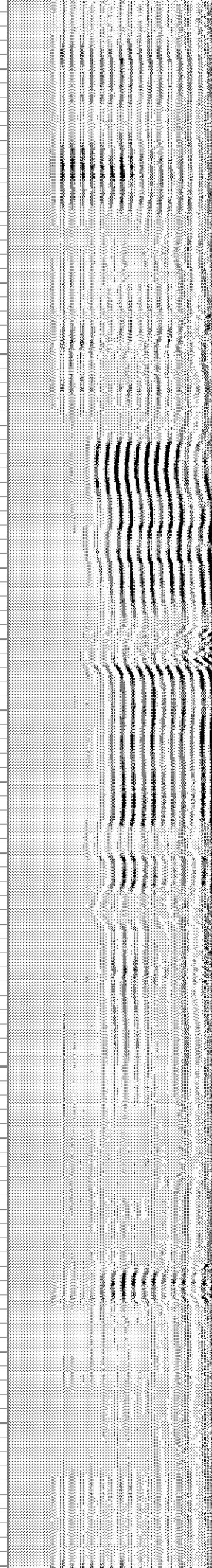
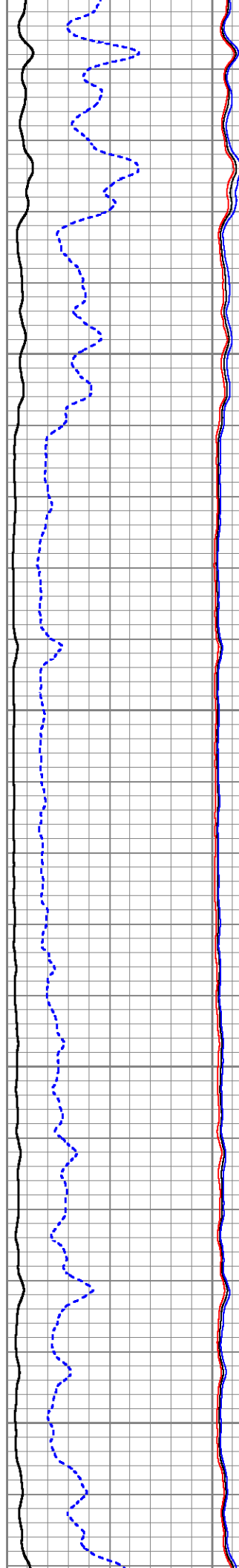


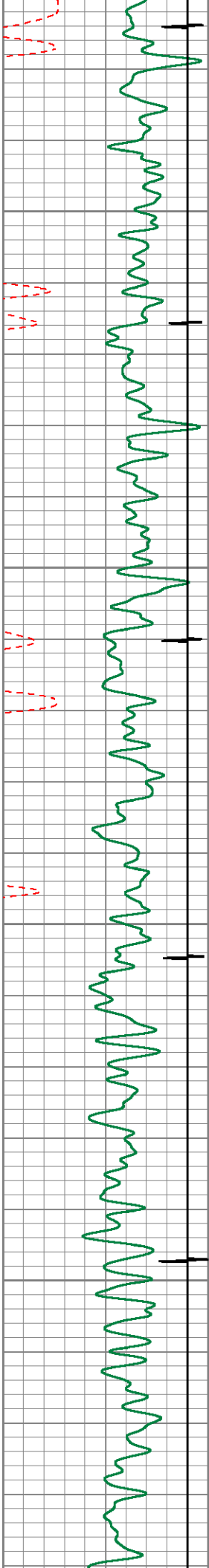


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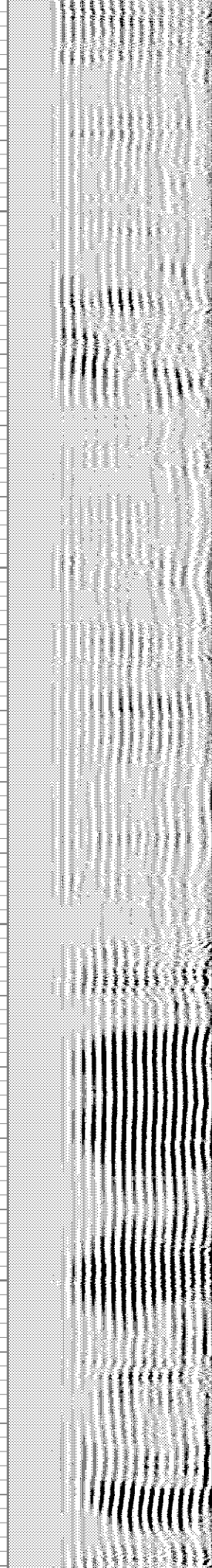
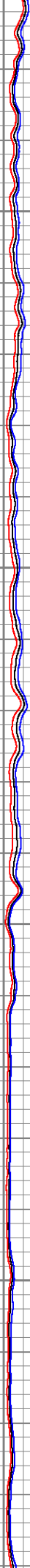
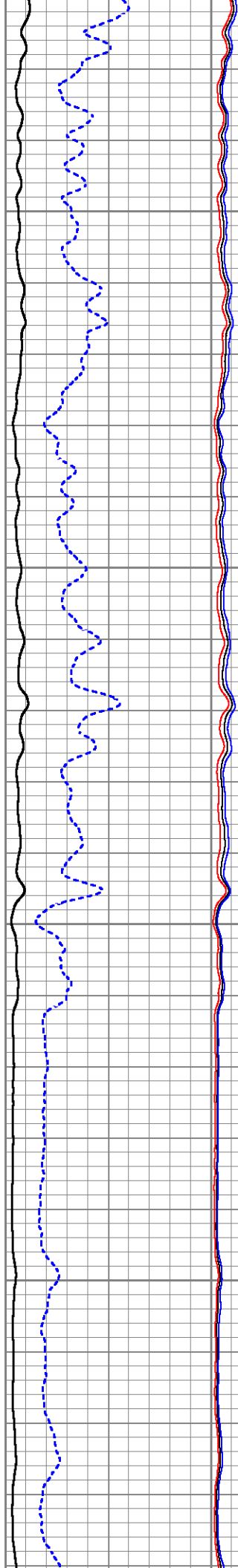
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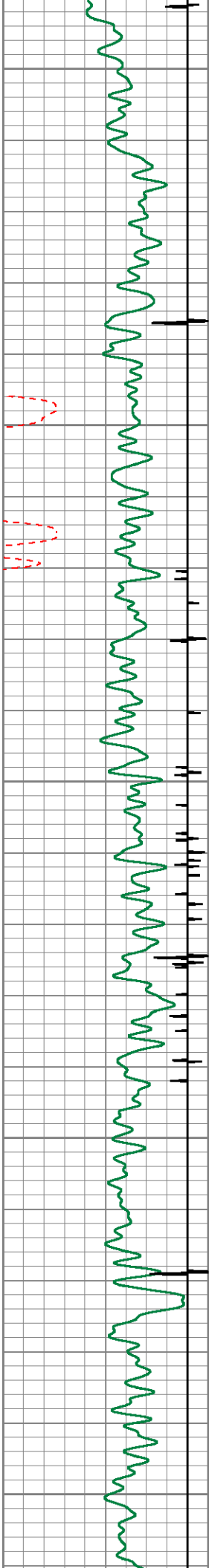




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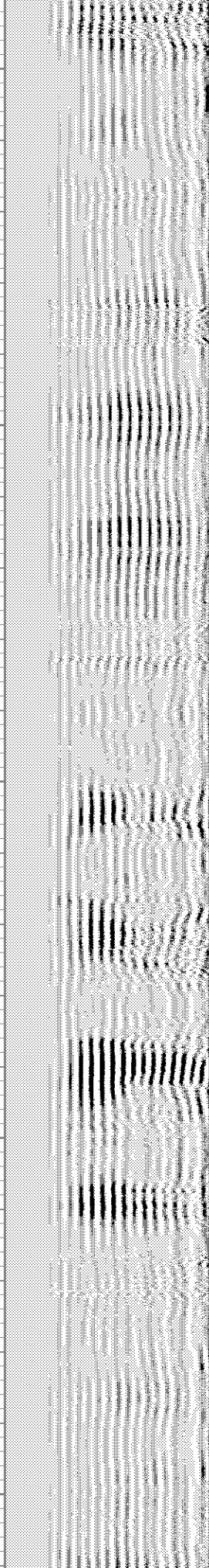
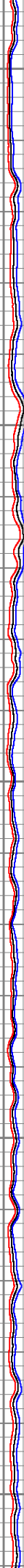
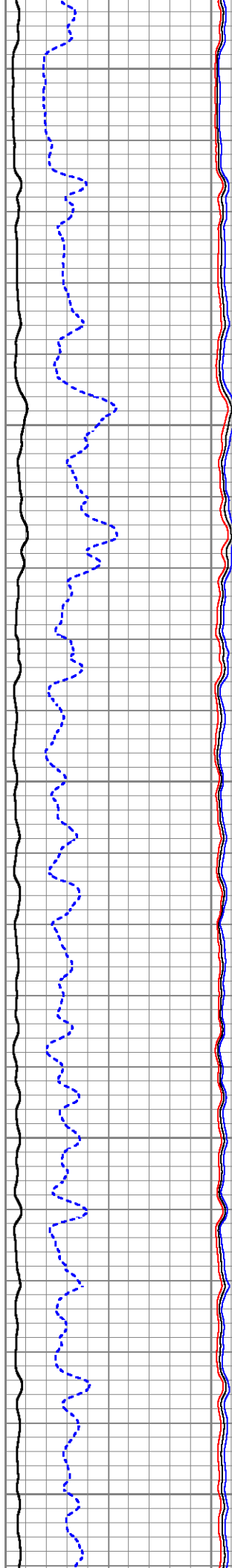
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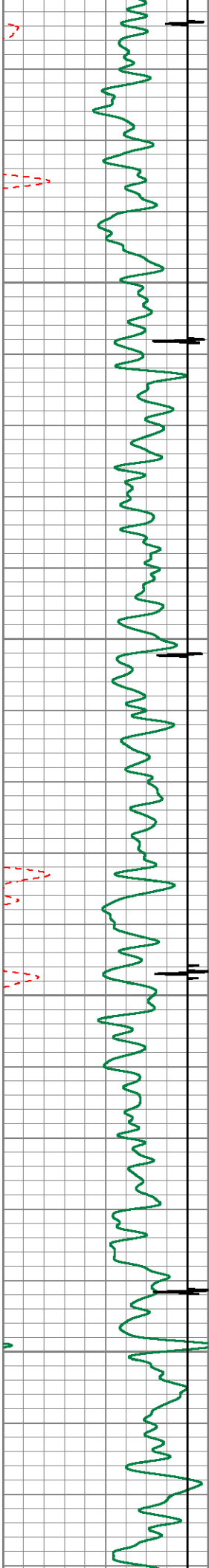




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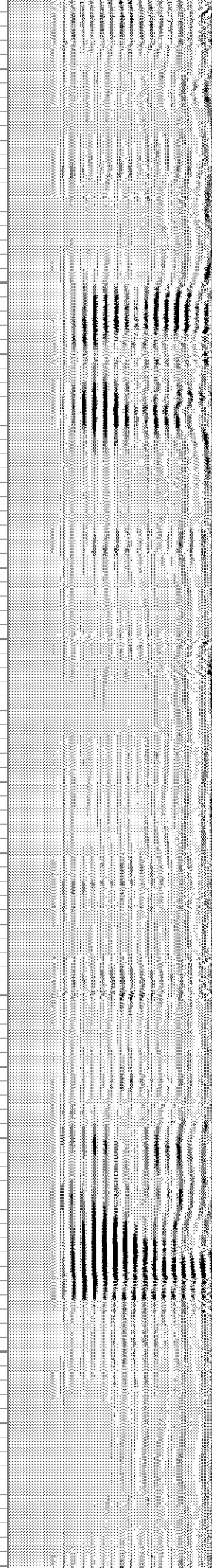
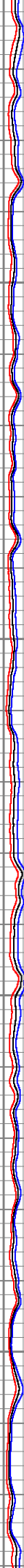
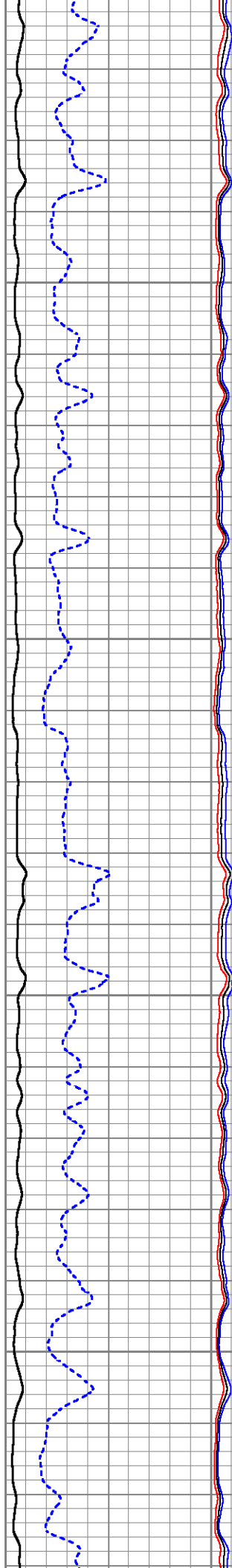
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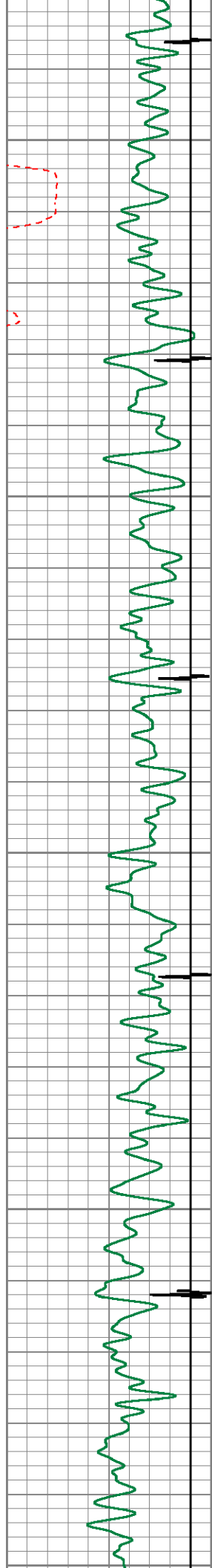




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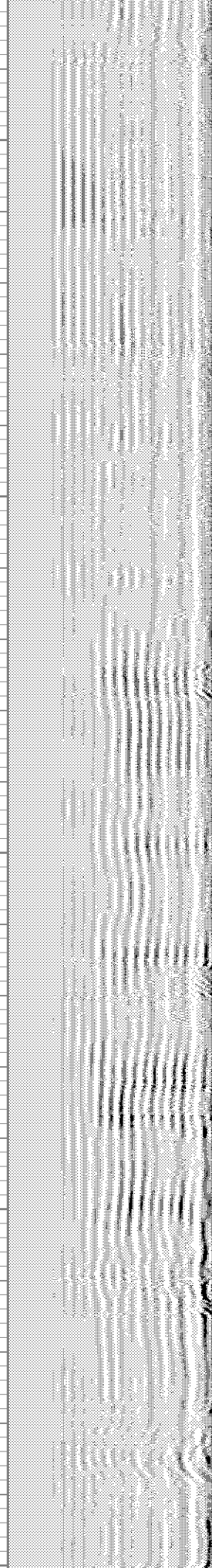
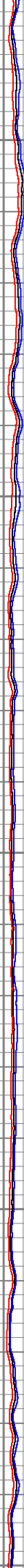
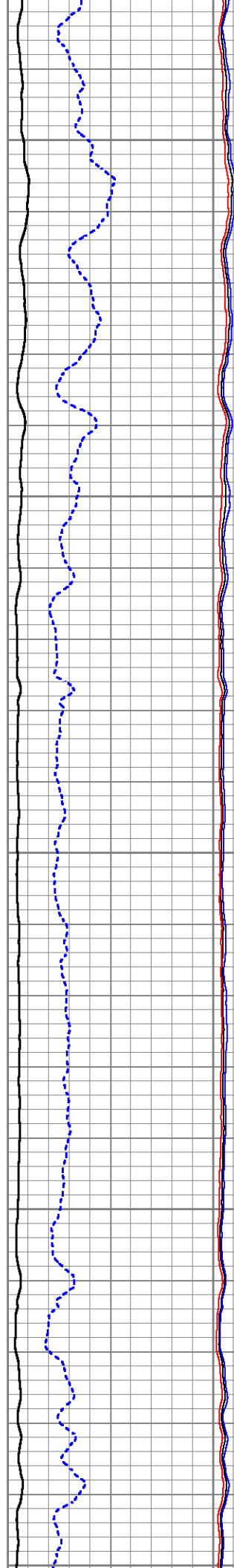


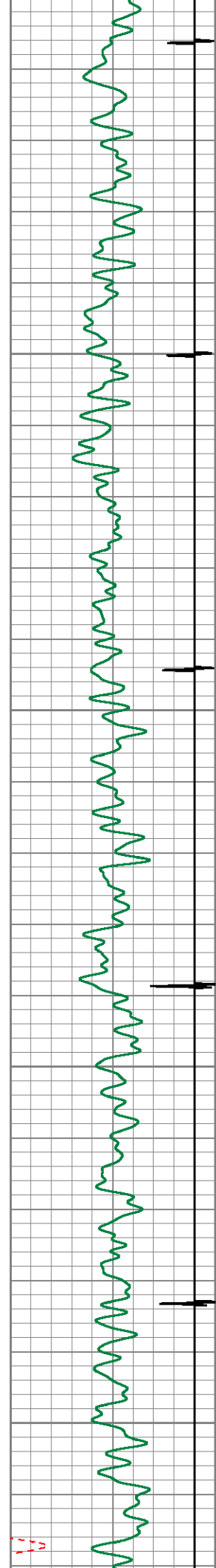


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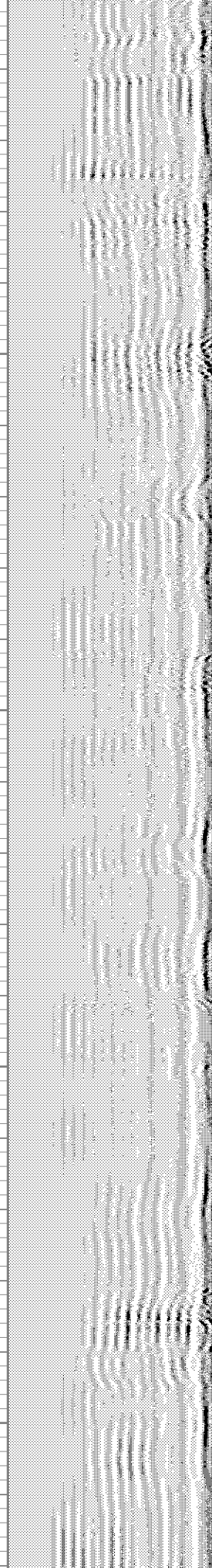
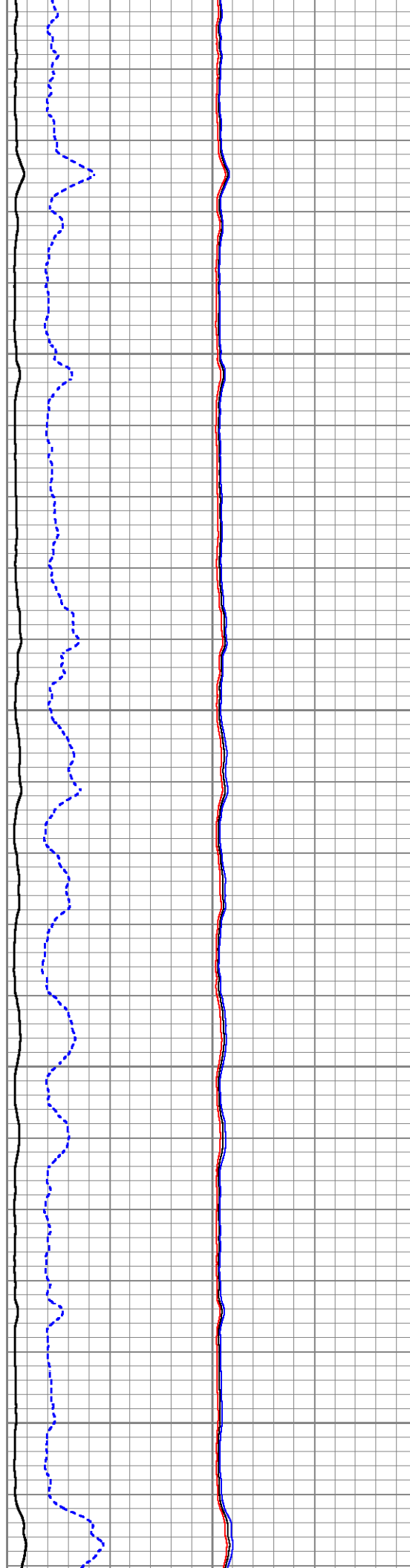


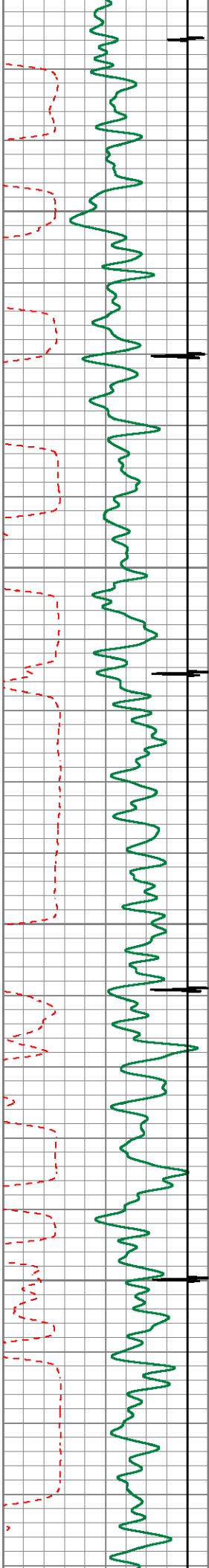


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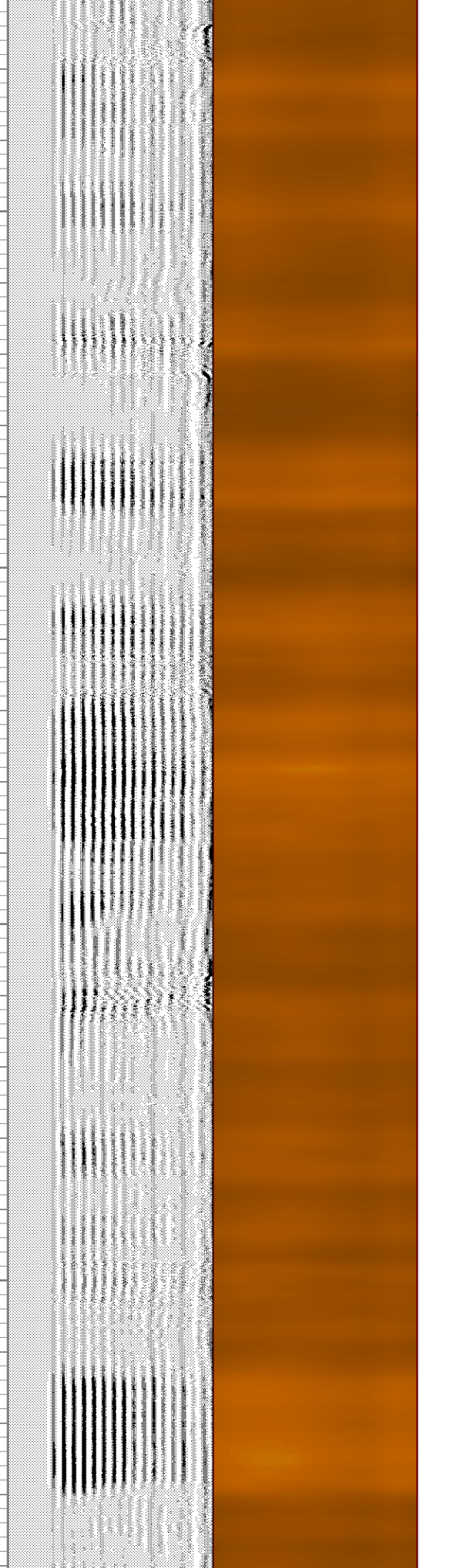
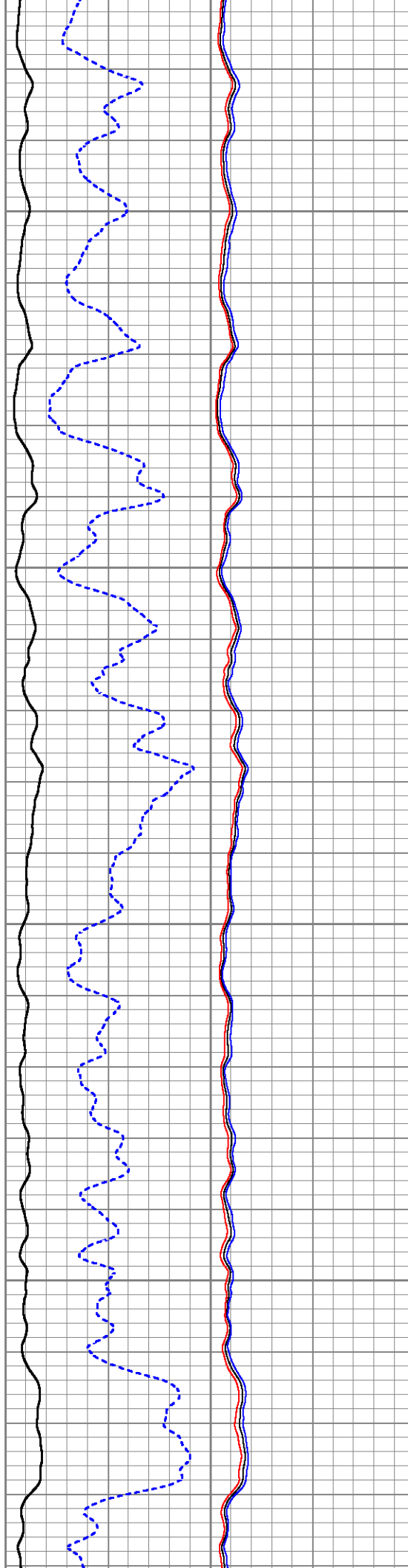
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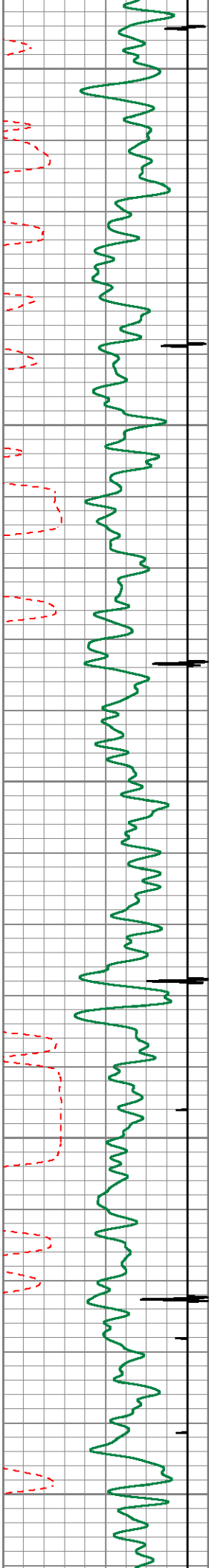




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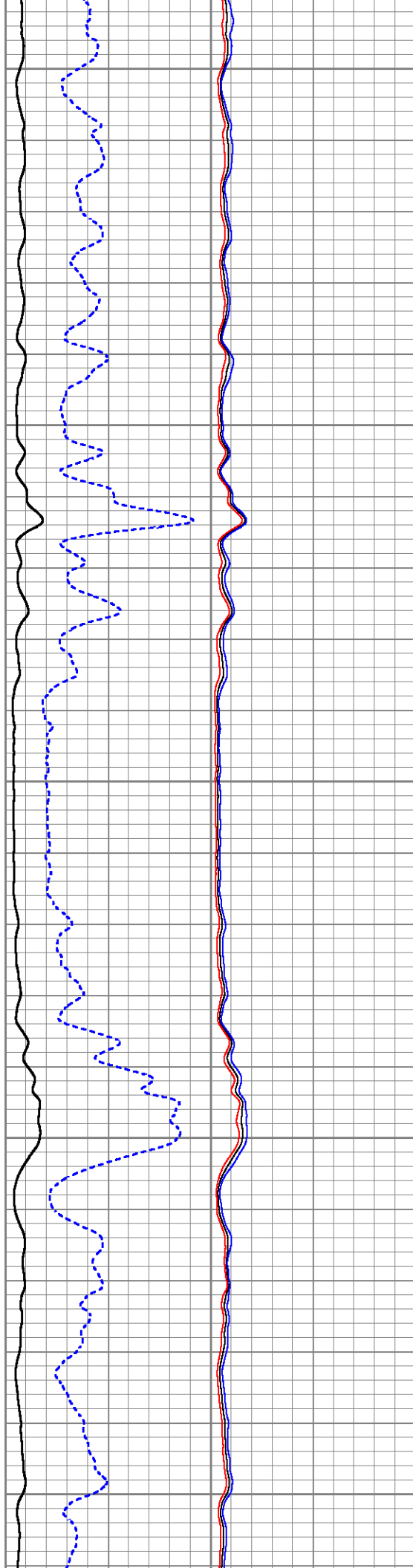
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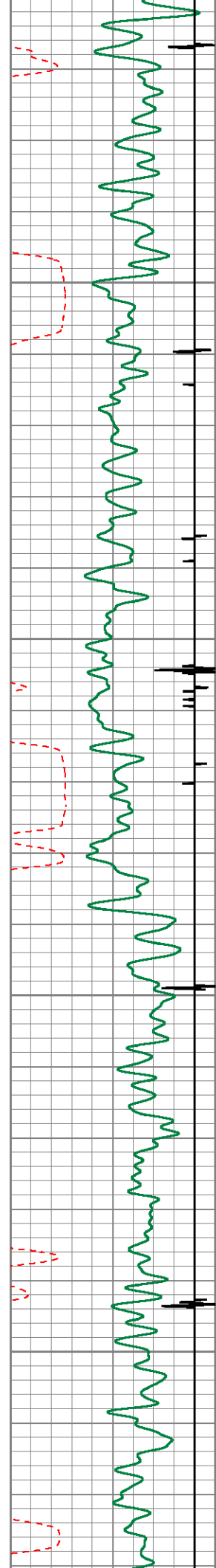




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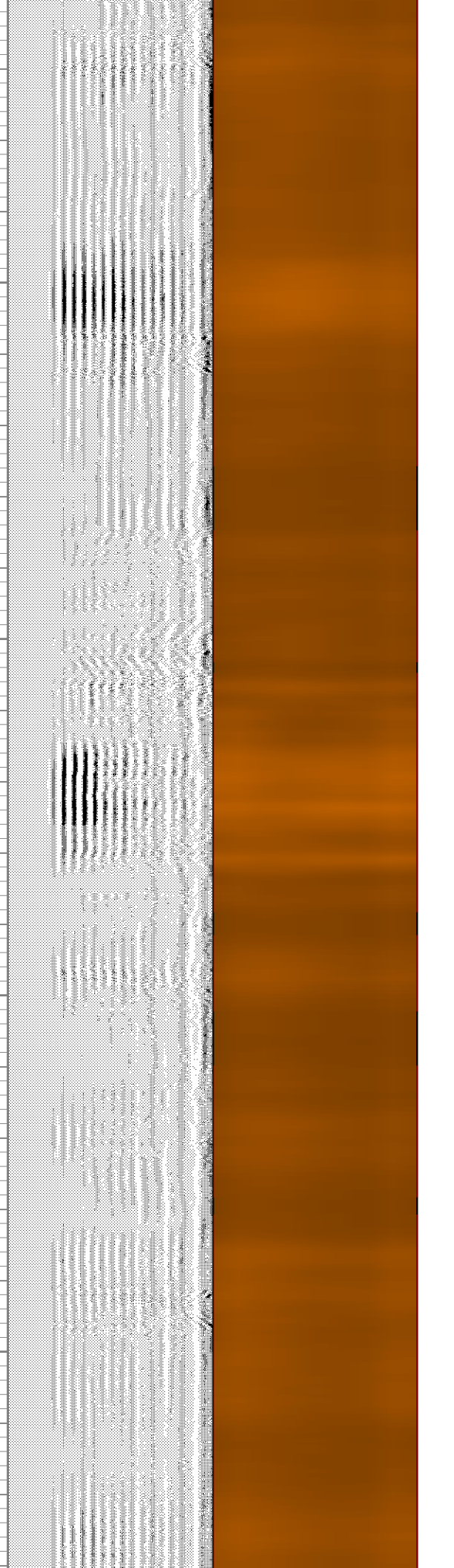
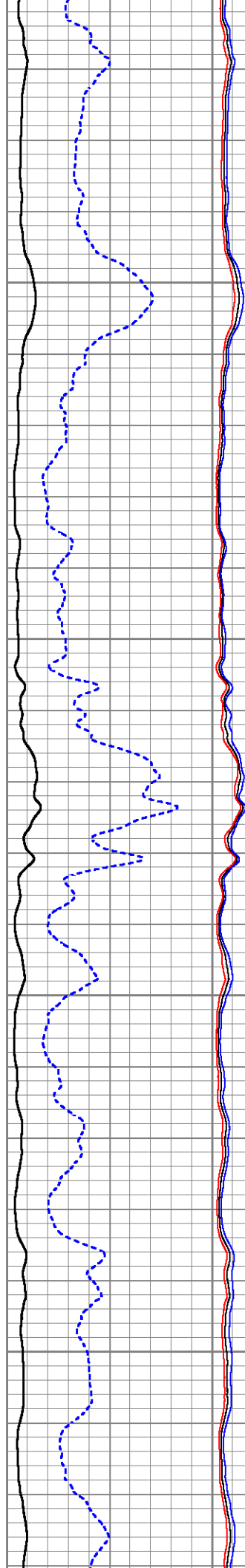
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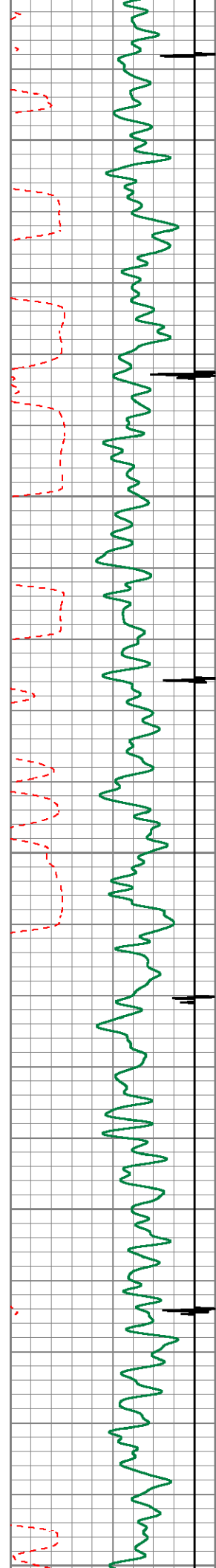




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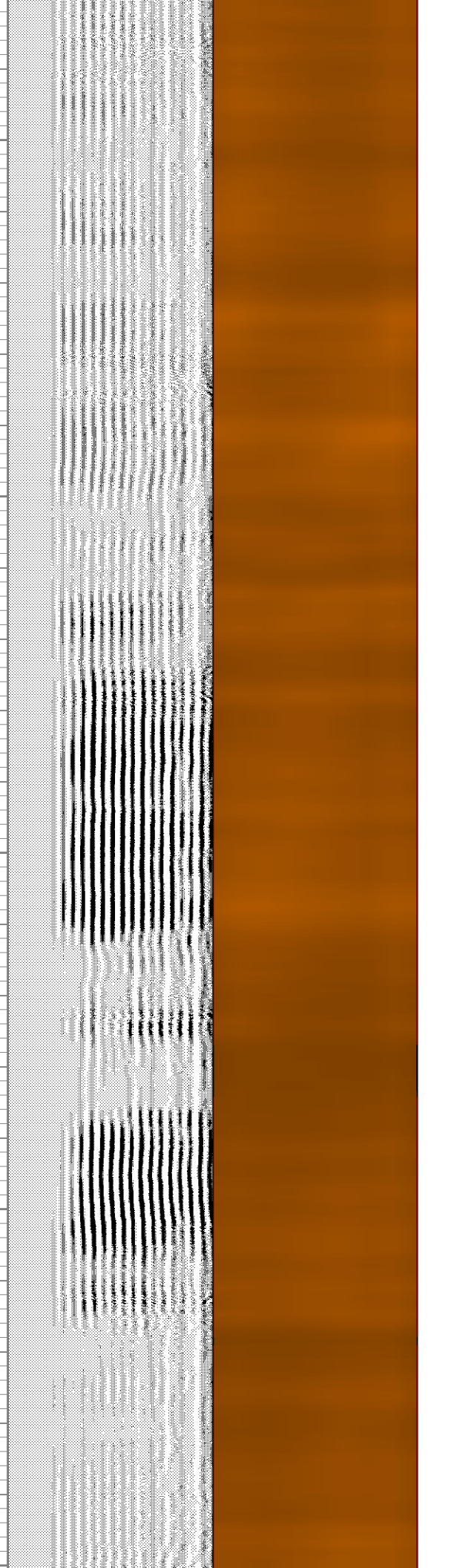
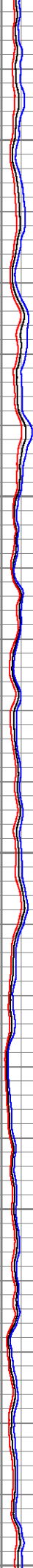
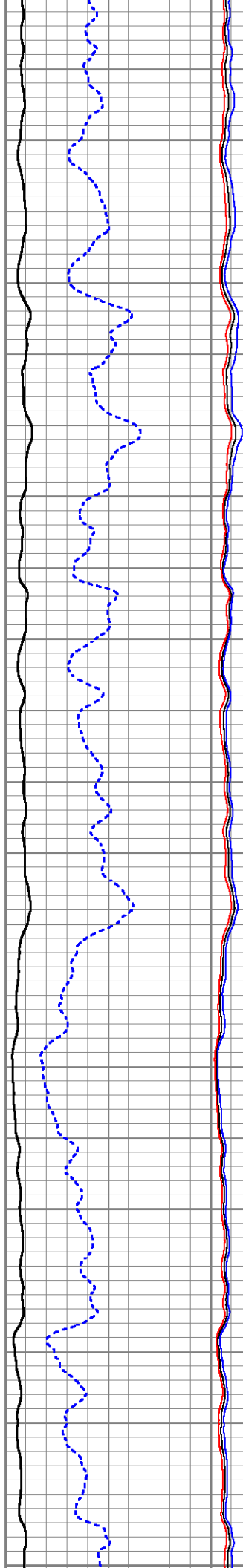


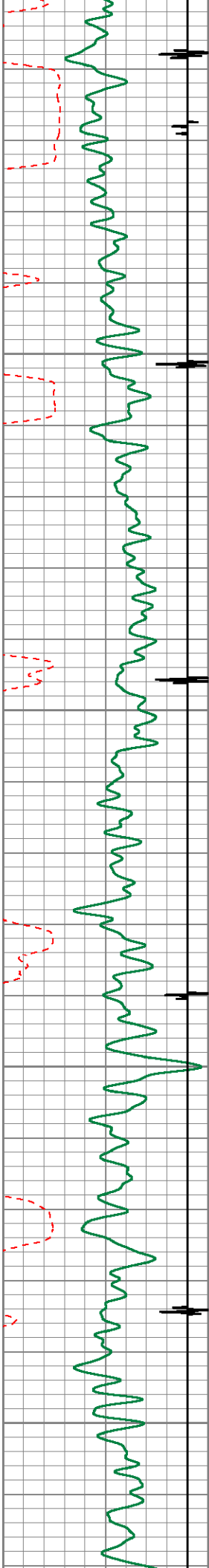


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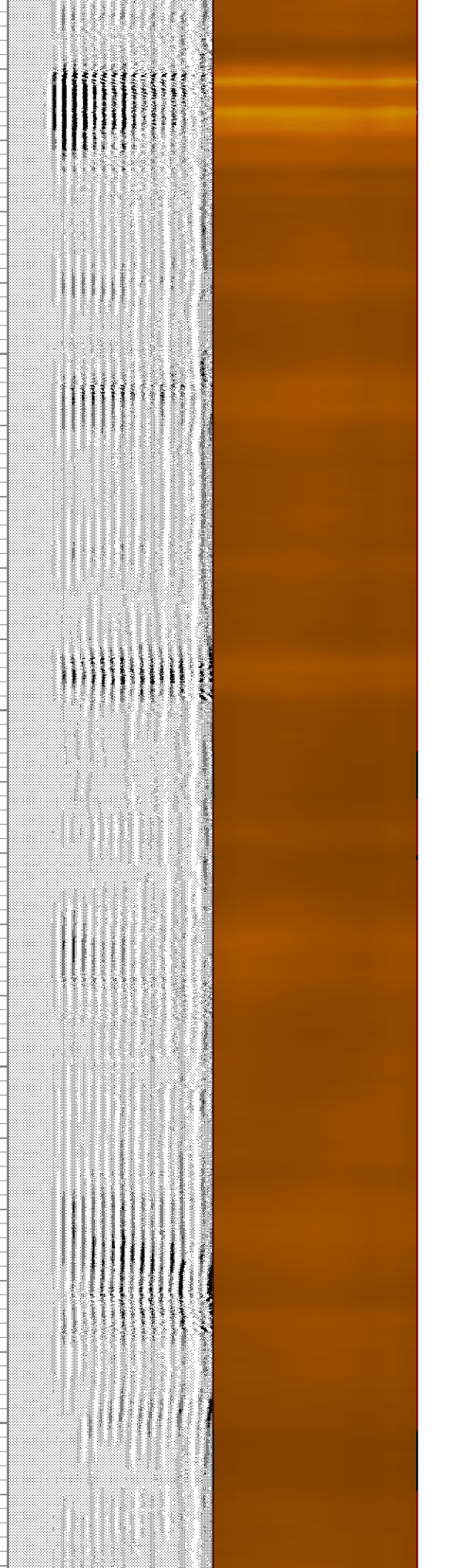
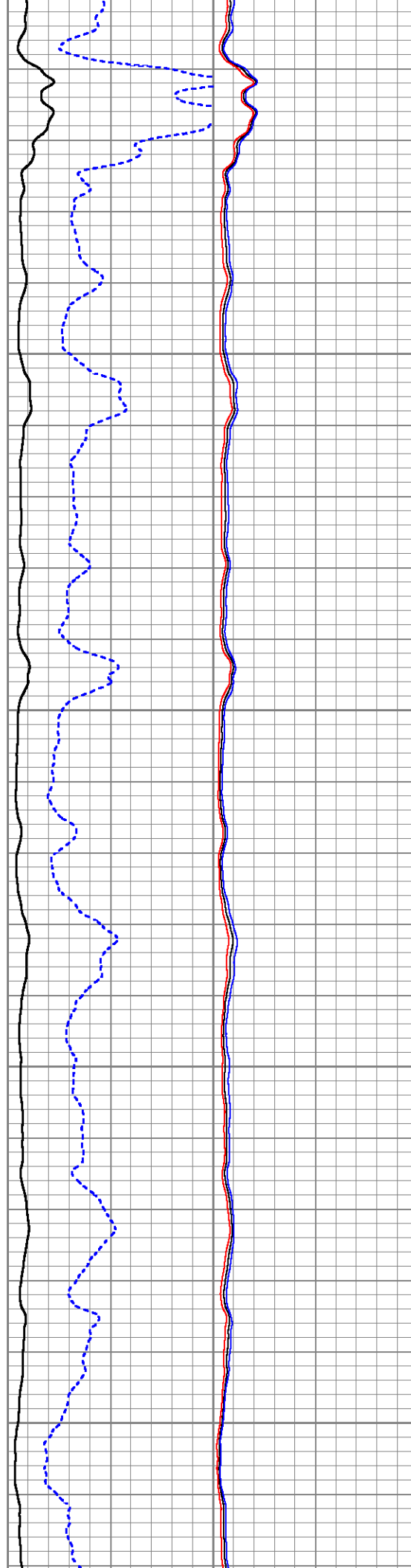
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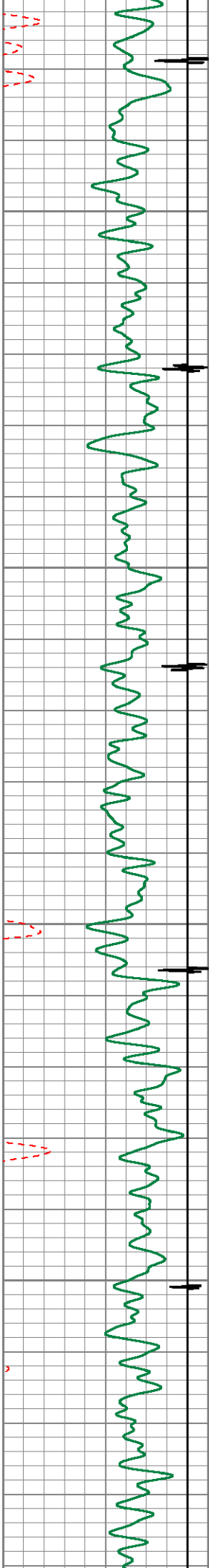




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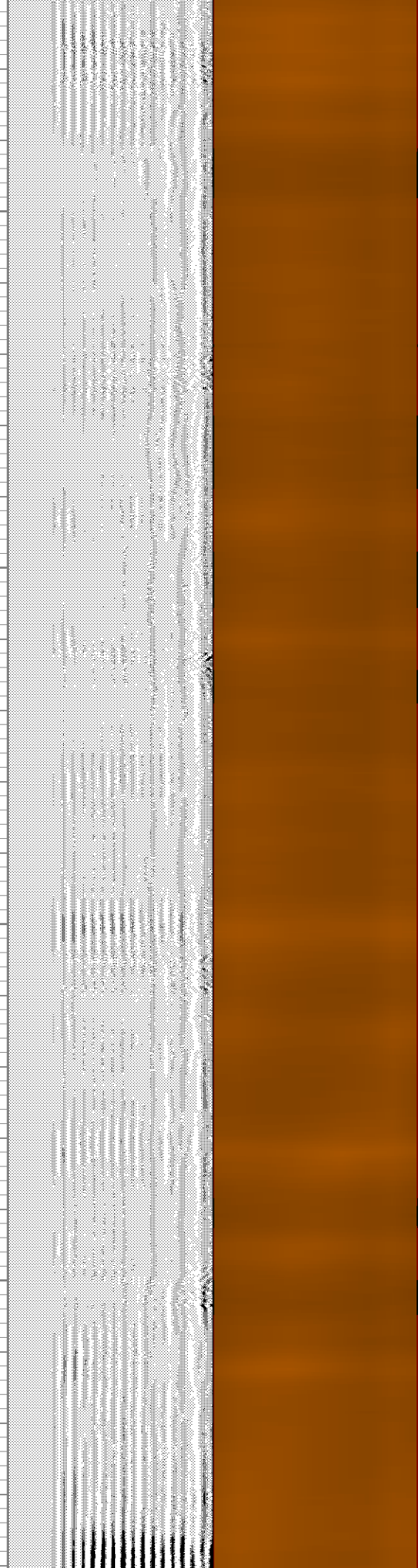
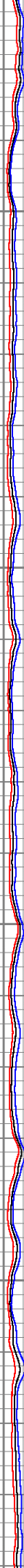
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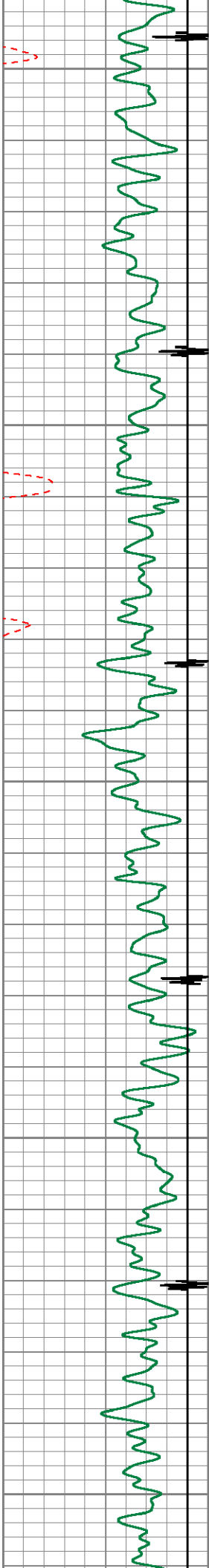




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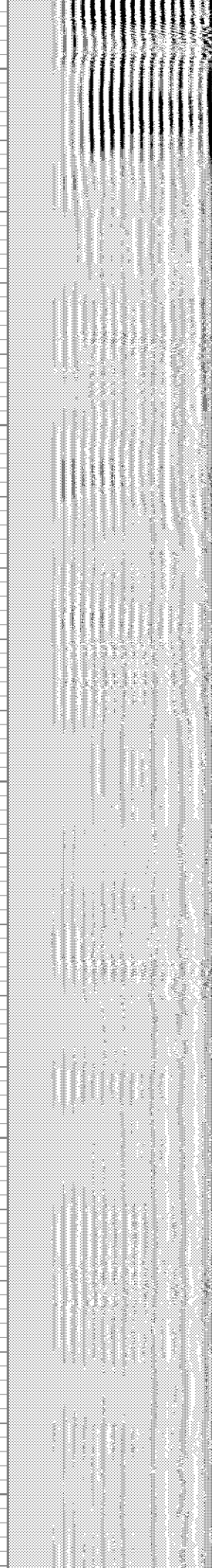
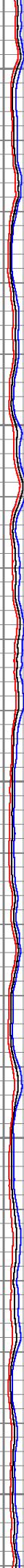
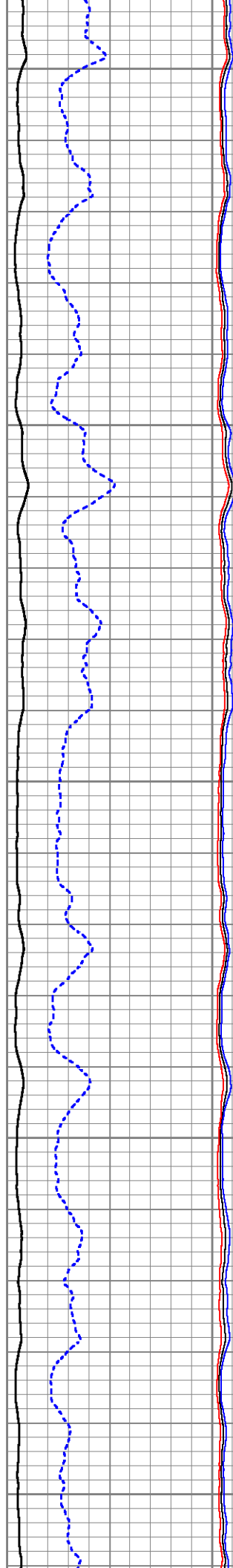
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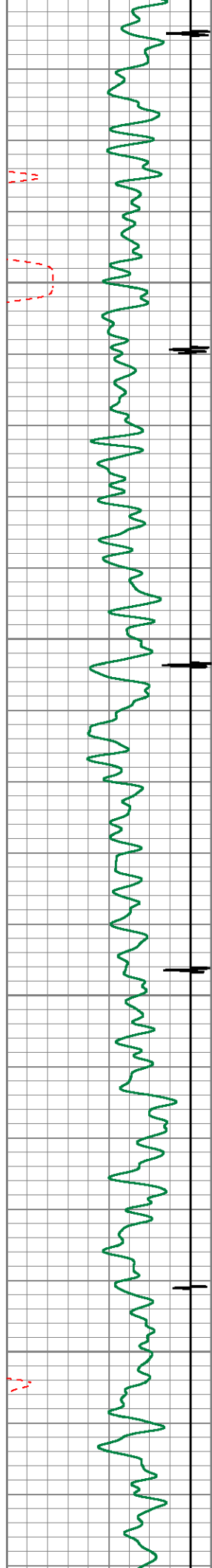




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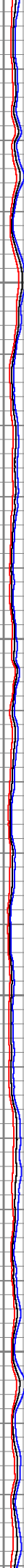
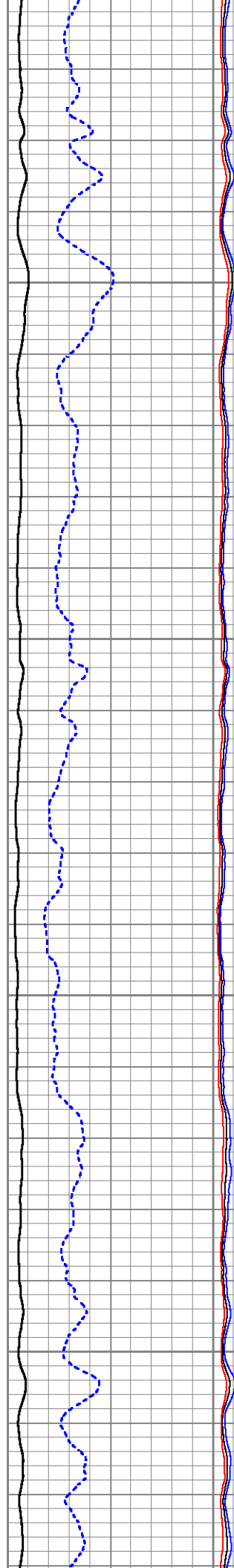
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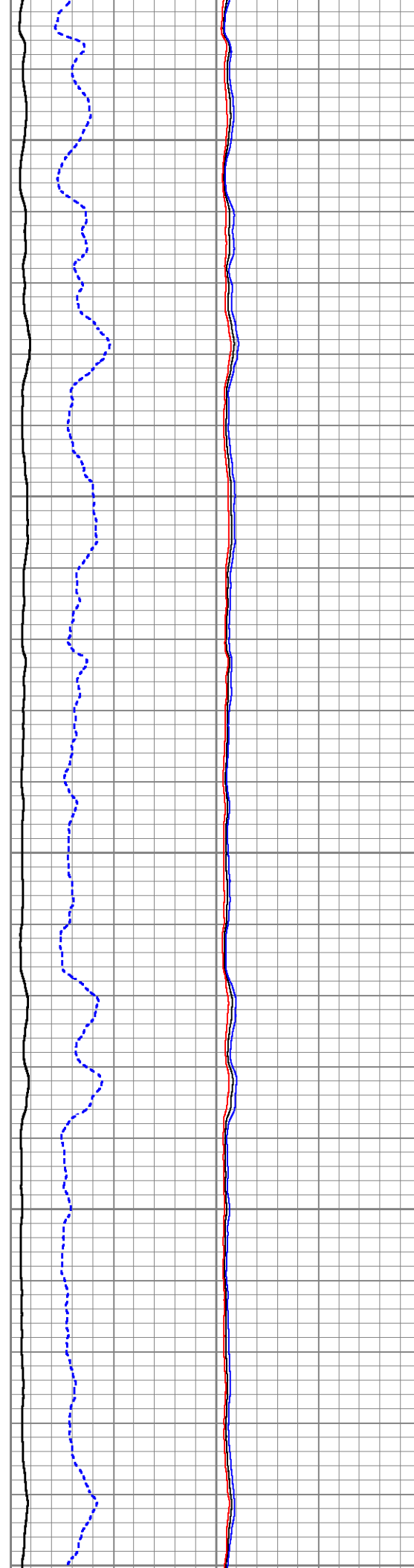
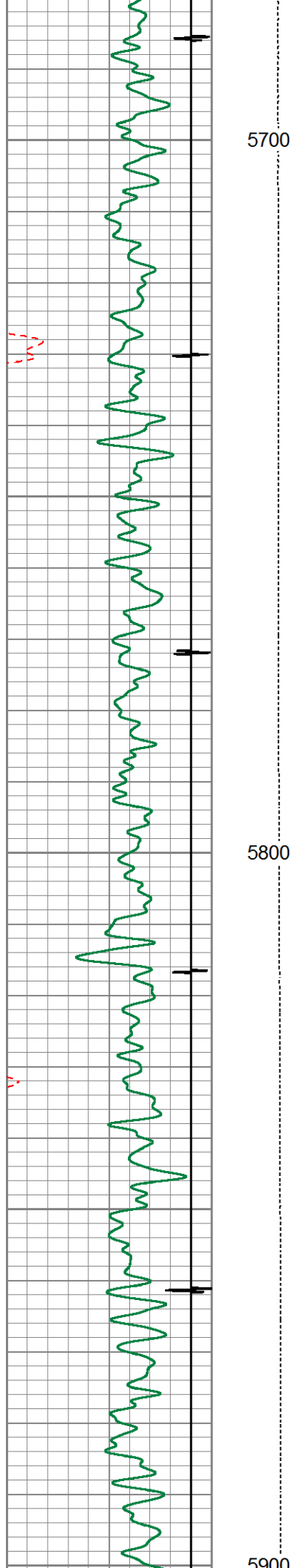


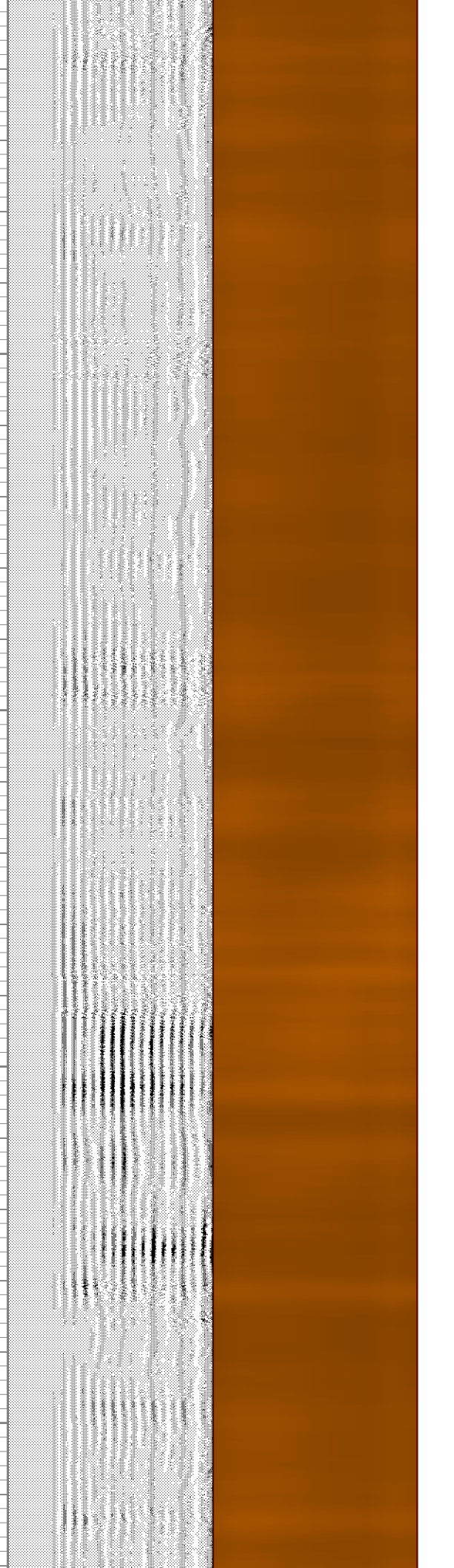
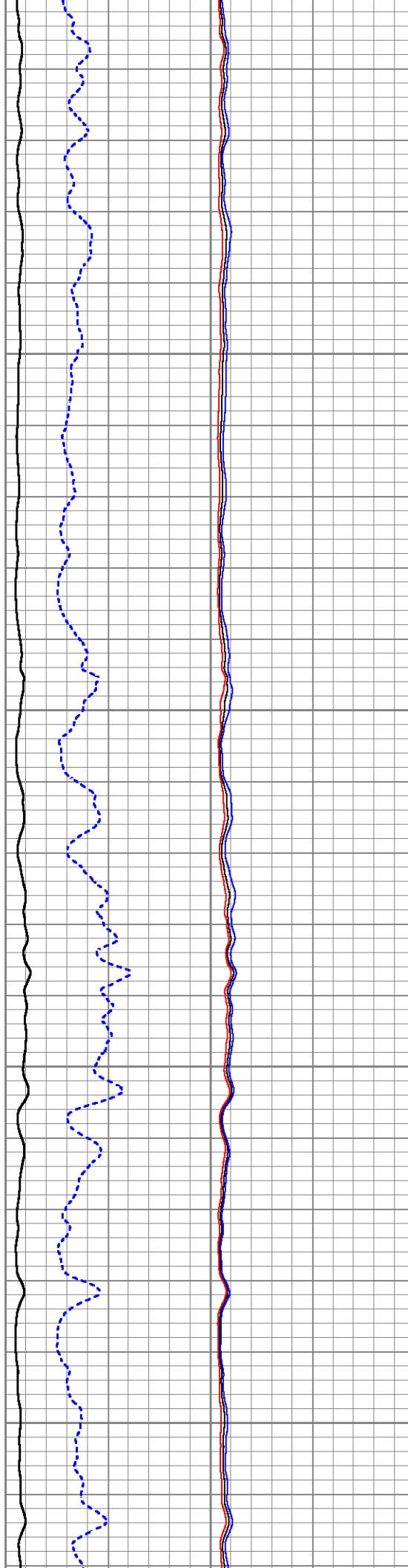
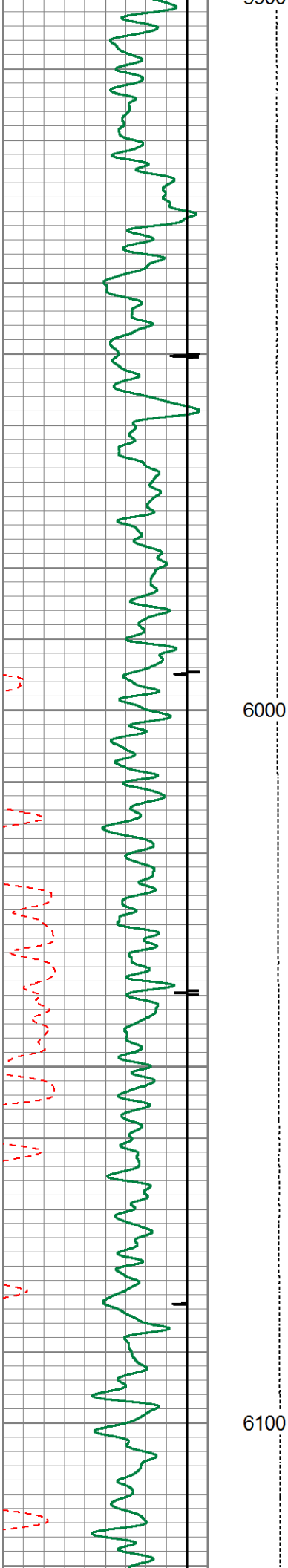


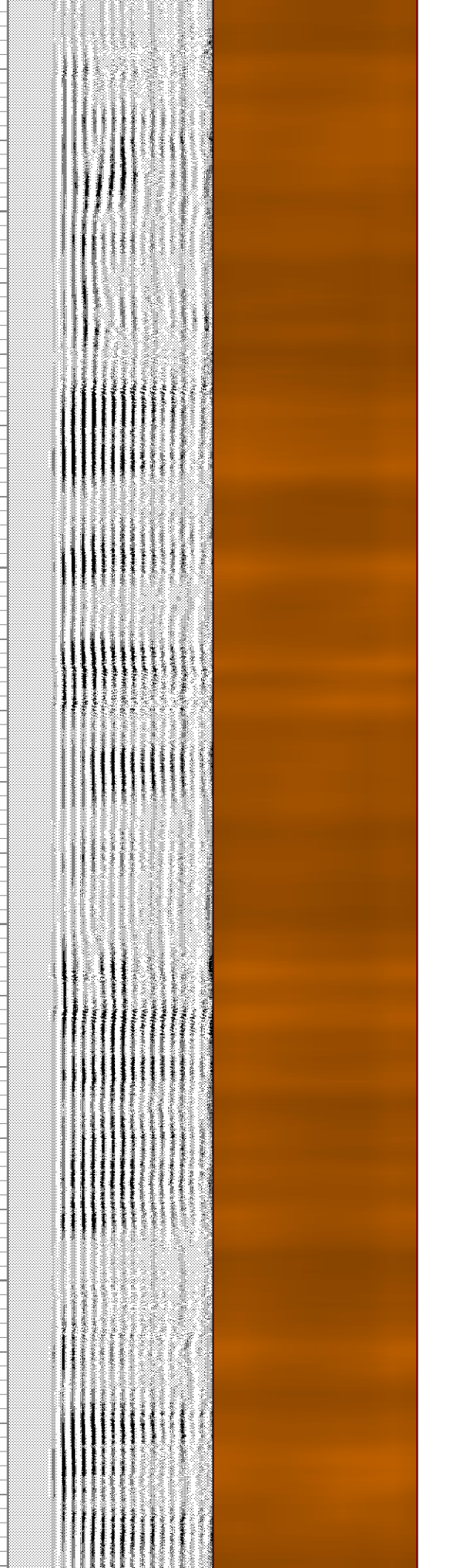
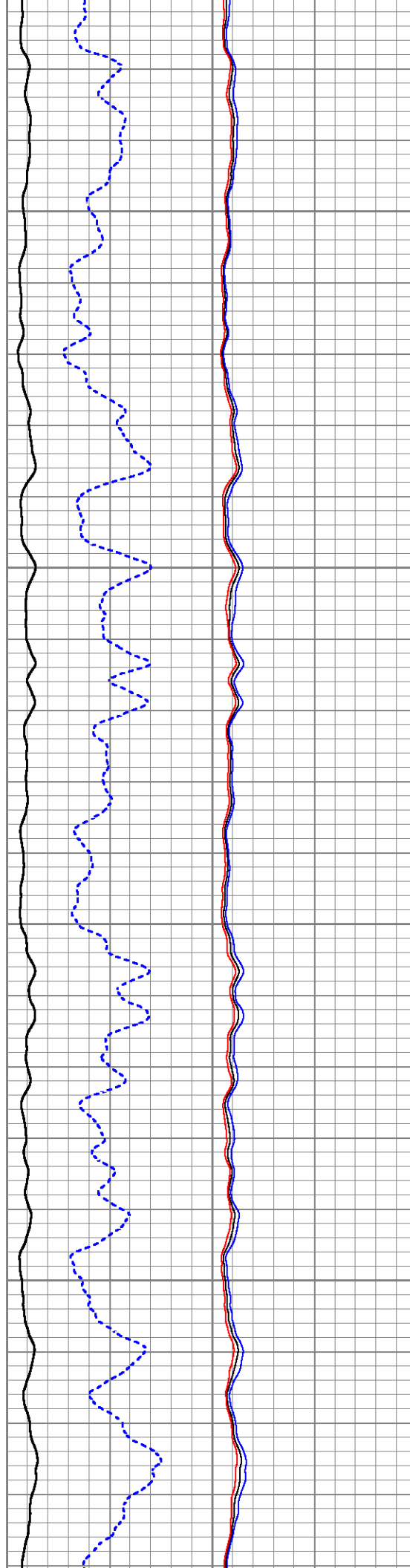
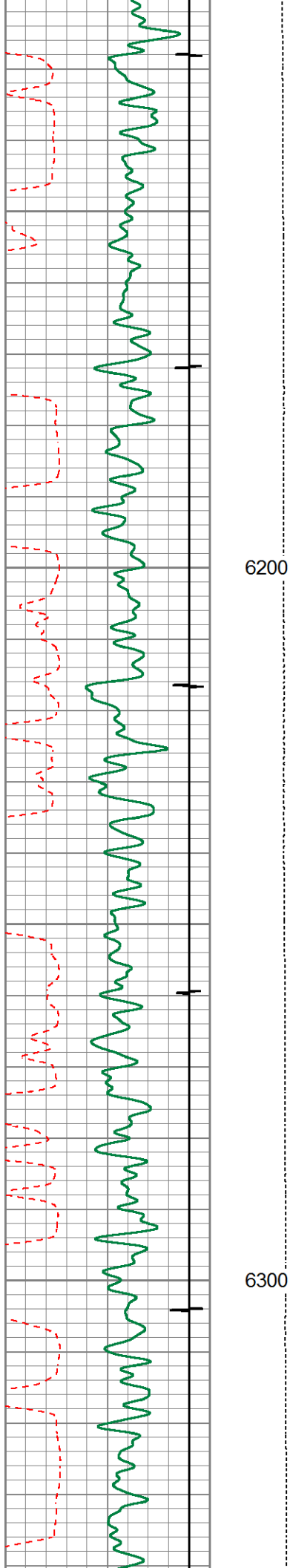
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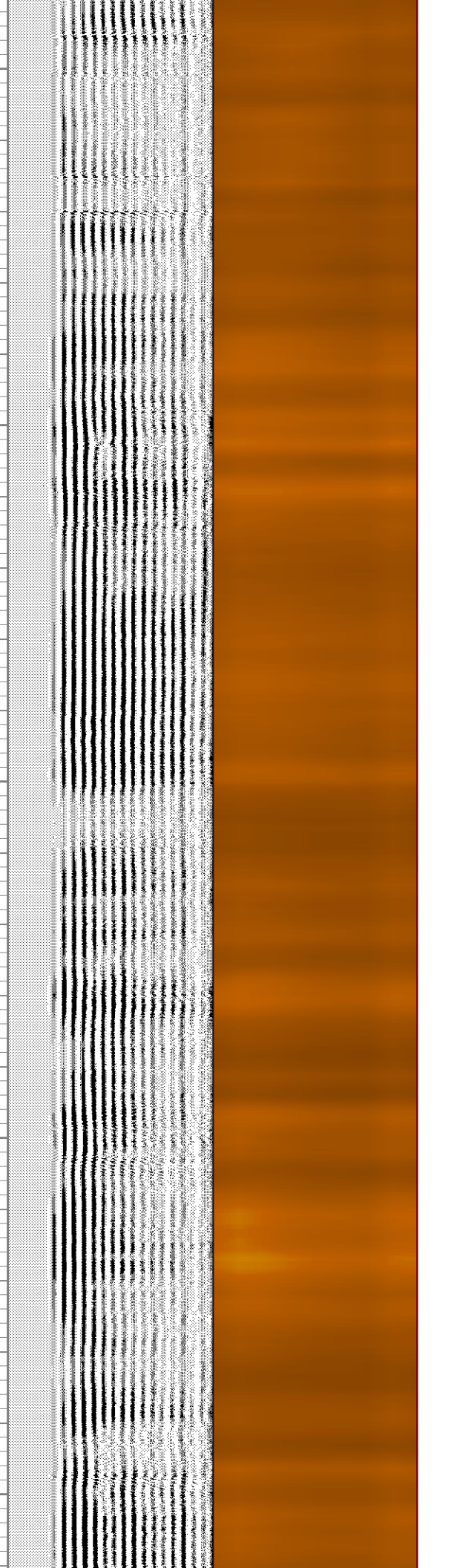
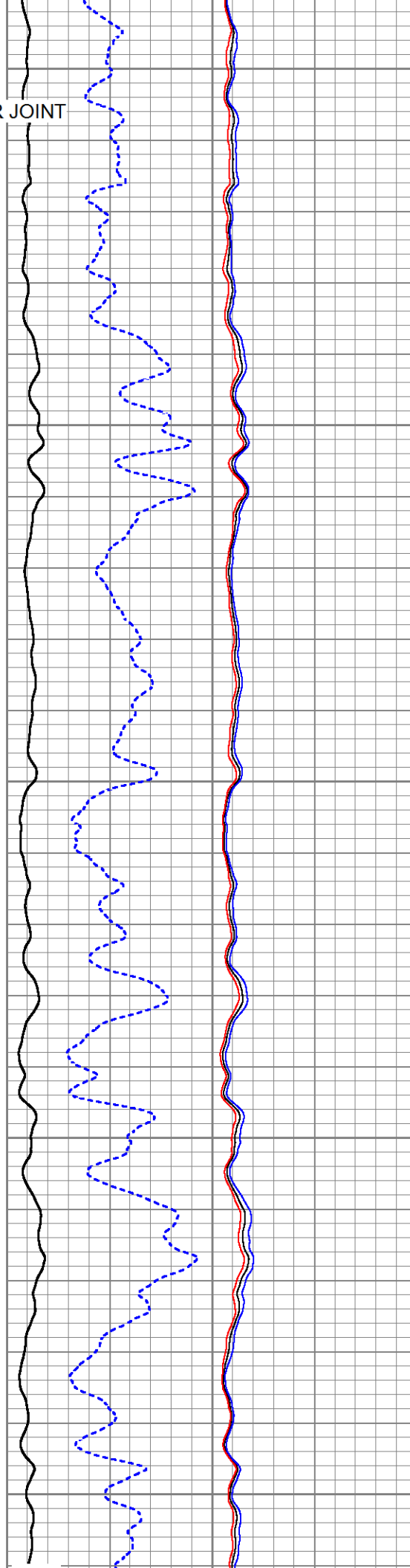
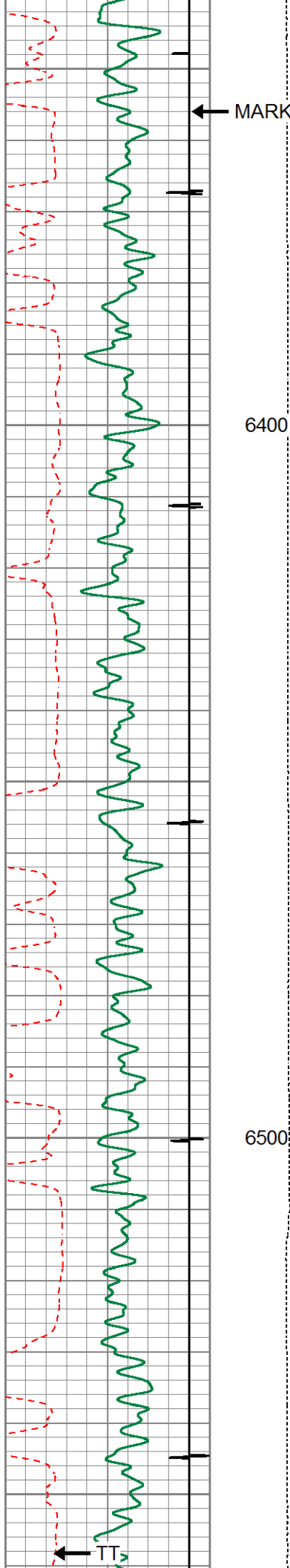
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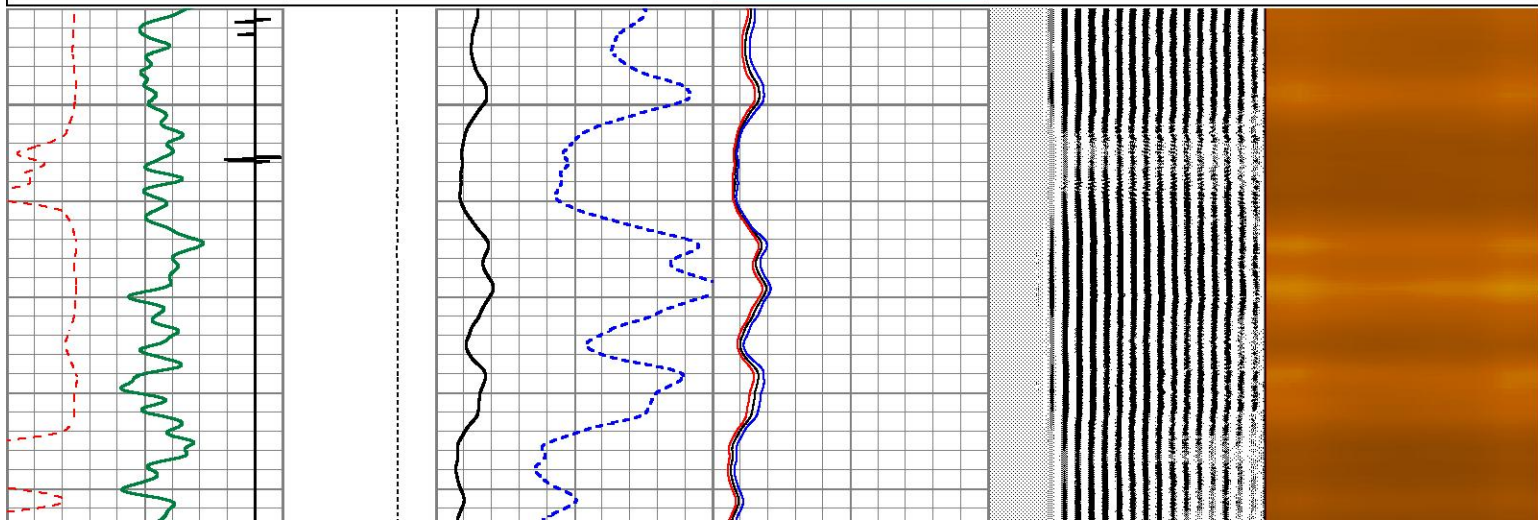
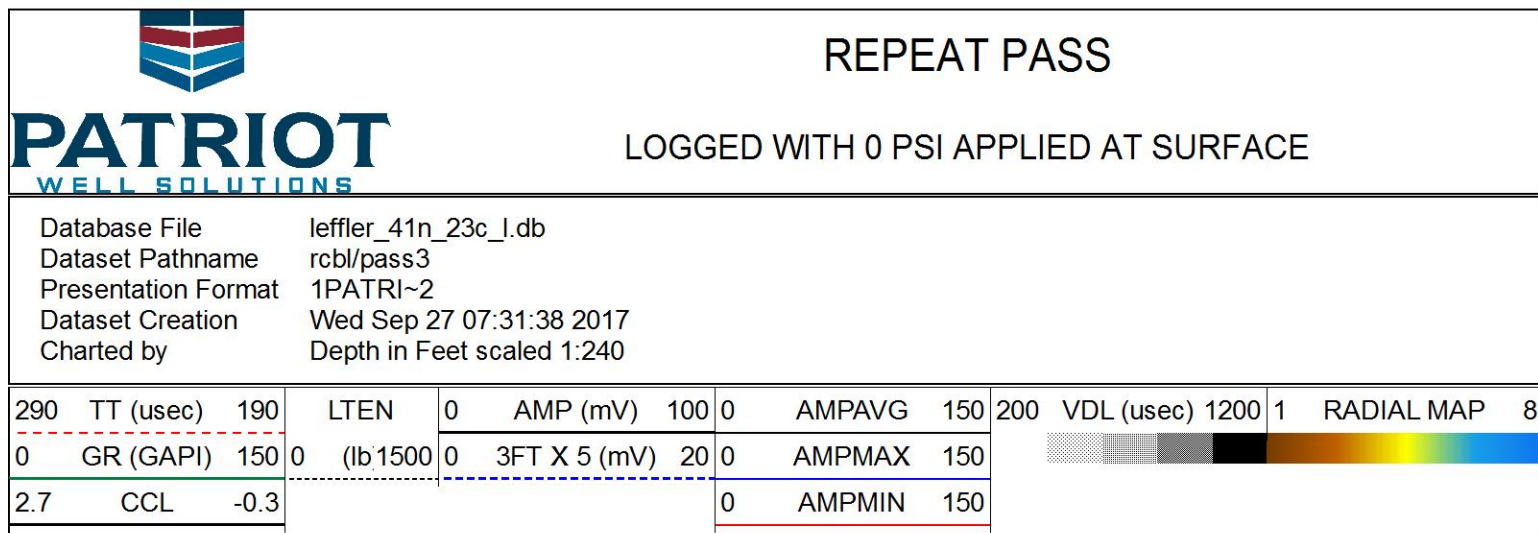
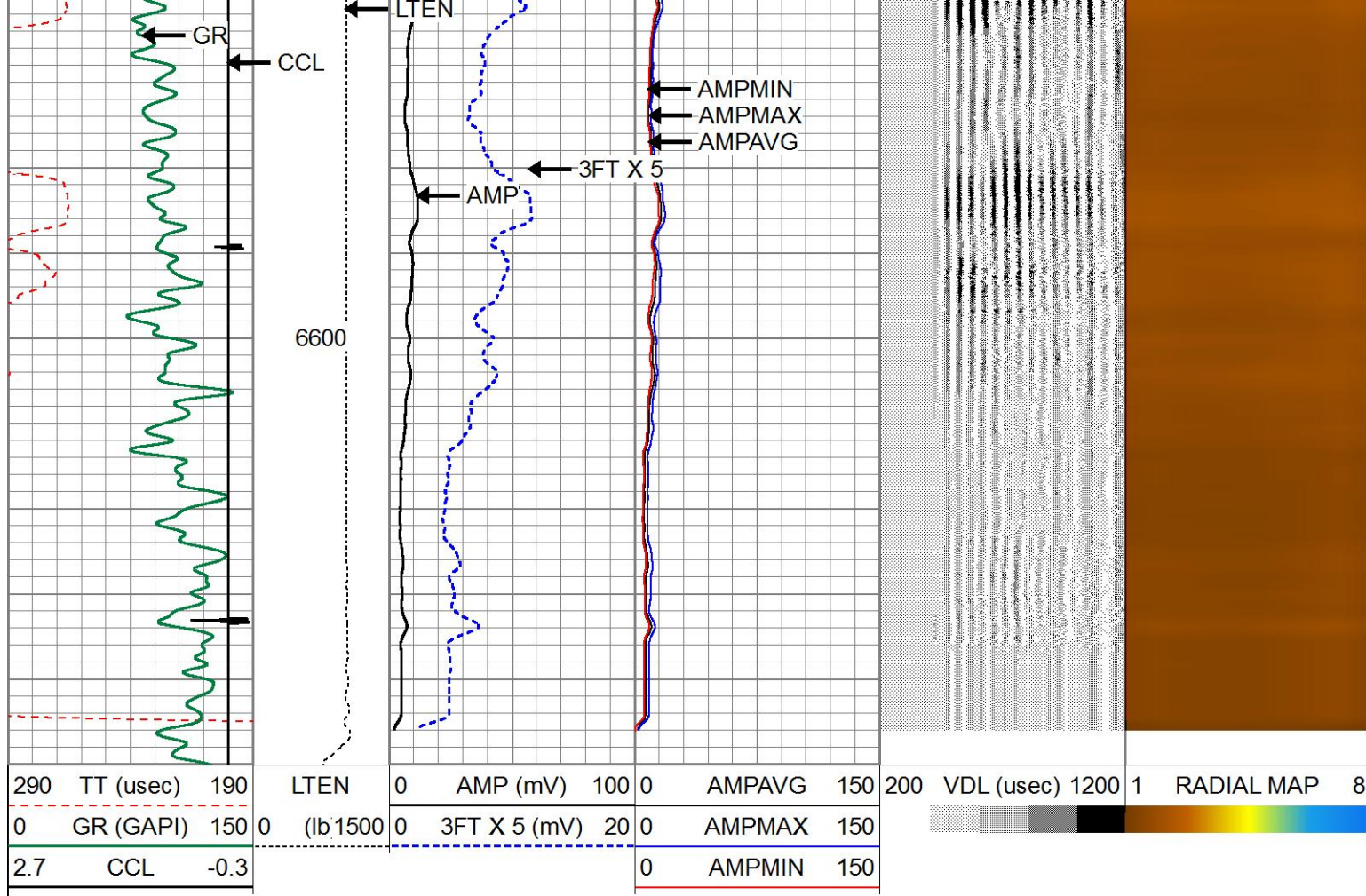


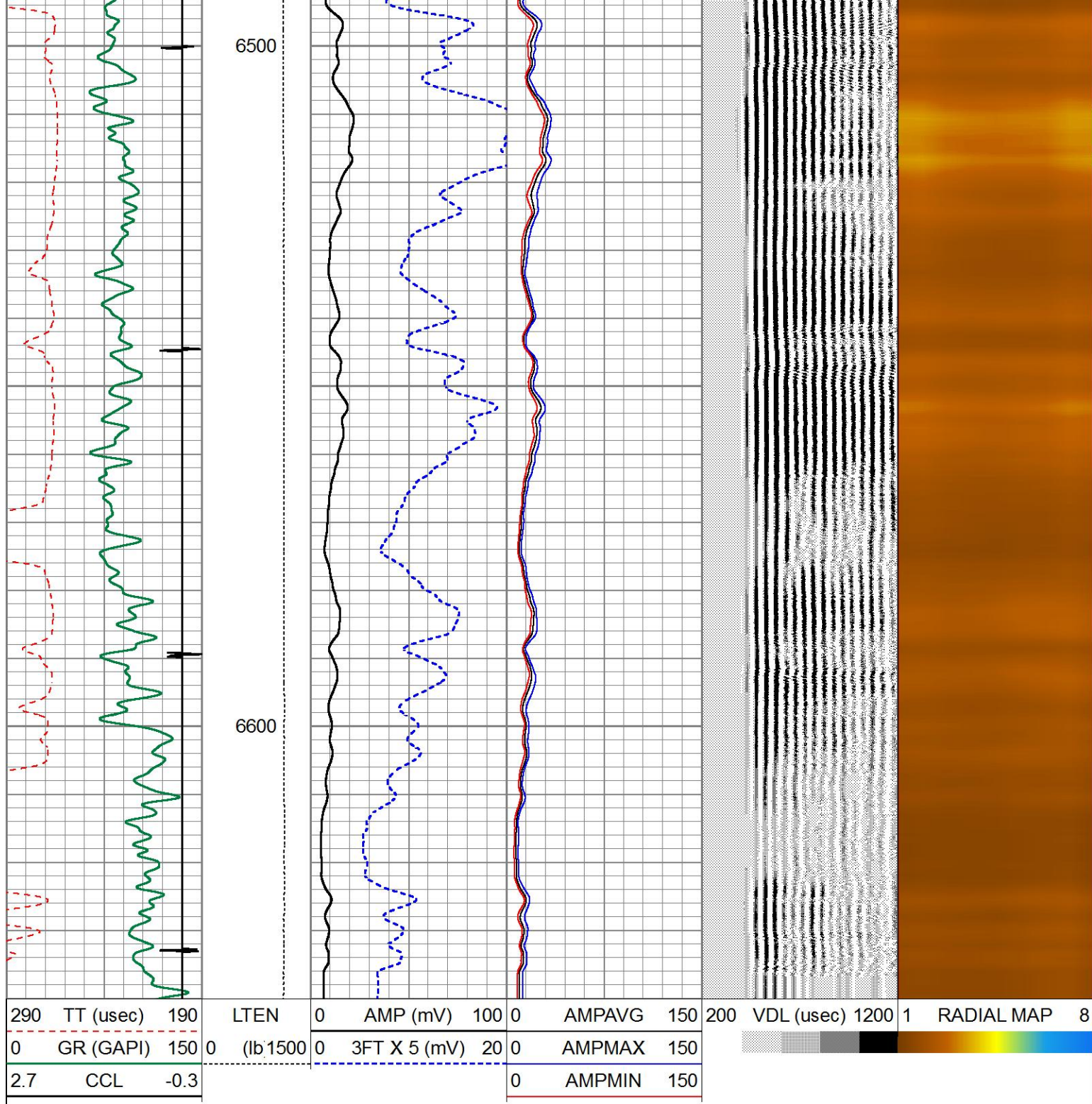












Calibration Report

Database File leffler_41n_23c_l.db
Dataset Pathname rcbl/pass4
Dataset Creation Wed Sep 27 07:44:42 2017

Gamma Ray Calibration Report

Type / Serial: GC275 rev.2 / FW1607-001

SHOP CALIBRATION

Tue Sep 26 04:21:02 2017

	Counts/Sec.	Gain	Offset	Jig	Units
Background	95.7				cps
Calibrator	335.4				cps
		0.8500			GAPI/cps

Background	117.3		cps
Calibrator	410.1		cps
Difference		292.8	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1704-53		
Tool Model:	RBTC3		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	1935.172	ft	

Master Calibration, performed Tue Sep 26 06:54:50 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.009	0.555	1.000	72.000	125.922	2.117
CAL	-0.011	0.615				
5'	-0.011	0.536	1.000	72.000	129.968	2.374
SUM						
S1	0.006	0.565	0.500	100.000	177.893	-0.566
S2	-0.009	0.571	0.500	100.000	171.684	1.988
S3	-0.010	0.567	0.500	100.000	172.494	2.180
S4	-0.009	0.565	0.500	100.000	173.180	2.111
S5	-0.009	0.561	0.500	100.000	174.567	2.073
S6	-0.009	0.563	0.500	100.000	174.127	1.996
S7	-0.009	0.561	0.500	100.000	174.829	2.000
S8	-0.009	0.553	0.500	100.000	177.112	2.042

Internal Reference Calibration, performed Mon Sep 11 06:58:25 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.011	0.615	1.000	0.000

Air Zero Calibration, performed Sun Sep 24 12:34:32 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000			0.000
5'	0.000		0.000			0.000
SUM						
S1	0.000		0.000			0.000
S2	0.000		0.000			0.000
S3	0.000		0.000			0.000
S4	0.000		0.000			0.000

S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

		Company	SRC ENERGY INC	
		Well	LEFFLER 41N-23C-L	
		Field	WATTENBERG	
		County	WELD	
		State	COLORADO	Country USA