



**Radial Cement Bond
Gamma Ray
Casing Collar Log**

Company Caerus Piceance LLC.
Well BJU G35 Fed 23C-35-496
Field Grand Valley
County Garfield State Colorado

Location: API #: 05-045-24344
SEC 35 TWP 4S RGE 96W
Permanent Datum Ground Level Elevation 8166'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
CNL
Elevation
K.B. 8196'
D.F. 8195'
G.L. 8166'

Date	06-APR-2022		
Run Number	One		
Depth Driller	11694 FT		
Depth Logger	11576 FT		
Bottom Logged Interval	11568 FT		
Top Log Interval	Surface		
Open Hole Size	8.750"		
Type Fluid	Fresh Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	291 ° F		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	9:33		
Equipment Number	8047		
Location	Grand Junction Colo		
Recorded By	P. Edwards		
Witnessed By	Darie Roehm		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
Two	8.75"	Surface	11694'
Casing Record	Size (in)	Wgt (lbs/ft)	Grade
Surface Casing	9.625"	36	J-55
Intermediate #1	4.5"	11.6	P-110
Intermediate #2			
Liner			
		Top	Bottom
		Surface	2972.6 FT
		Surface	11678.7 FT

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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.

Comments

Log ran as per customer request.
Depth referenced to Kelly Bushing @ 30FT
Marker Joint from 7887 FT - 7898 FT
Log ran from 11576 FT to Surface
Log ran with 0 PSI surface induced pressure.

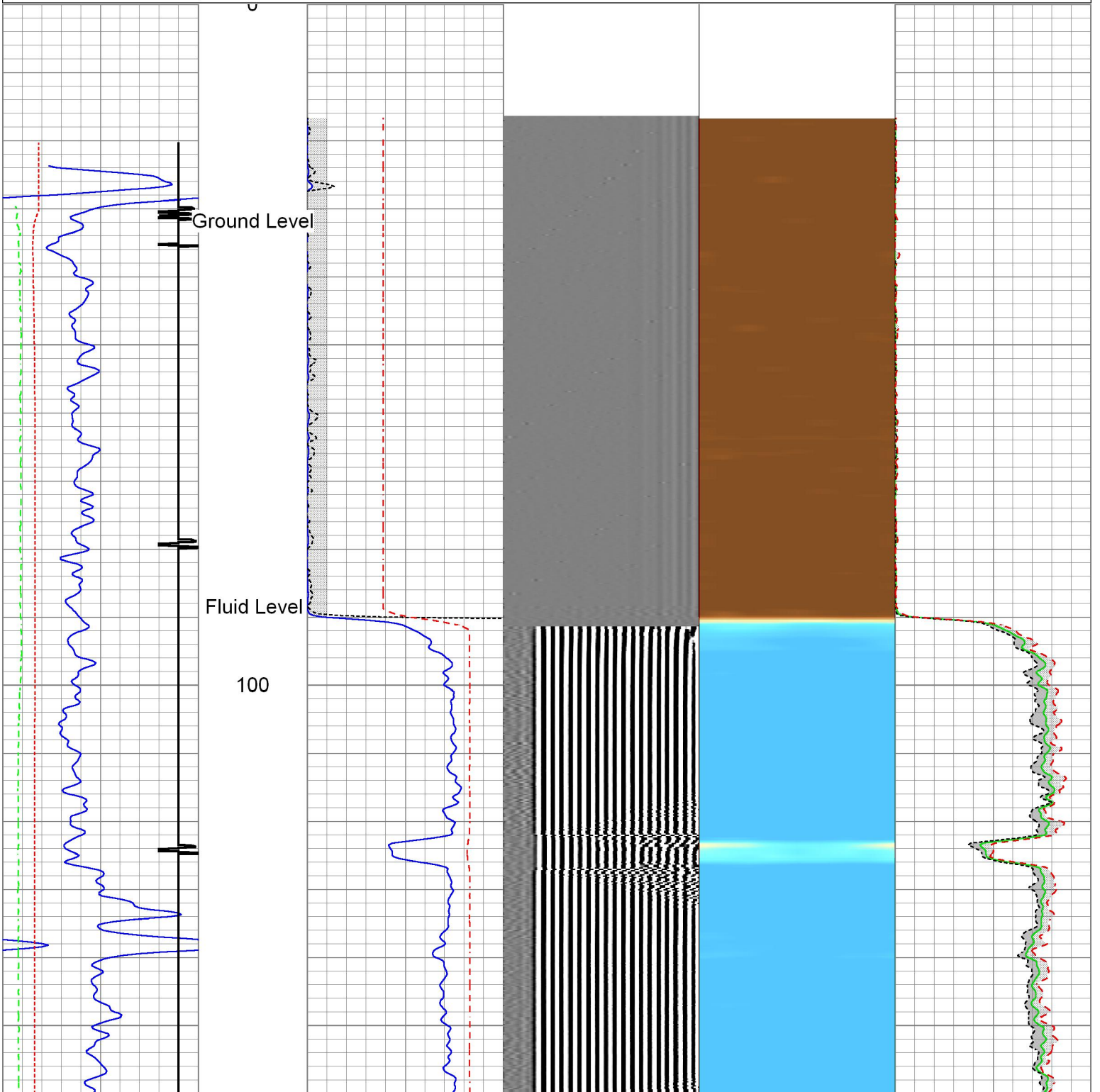
Thank you for choosing The Wireline Group!!!

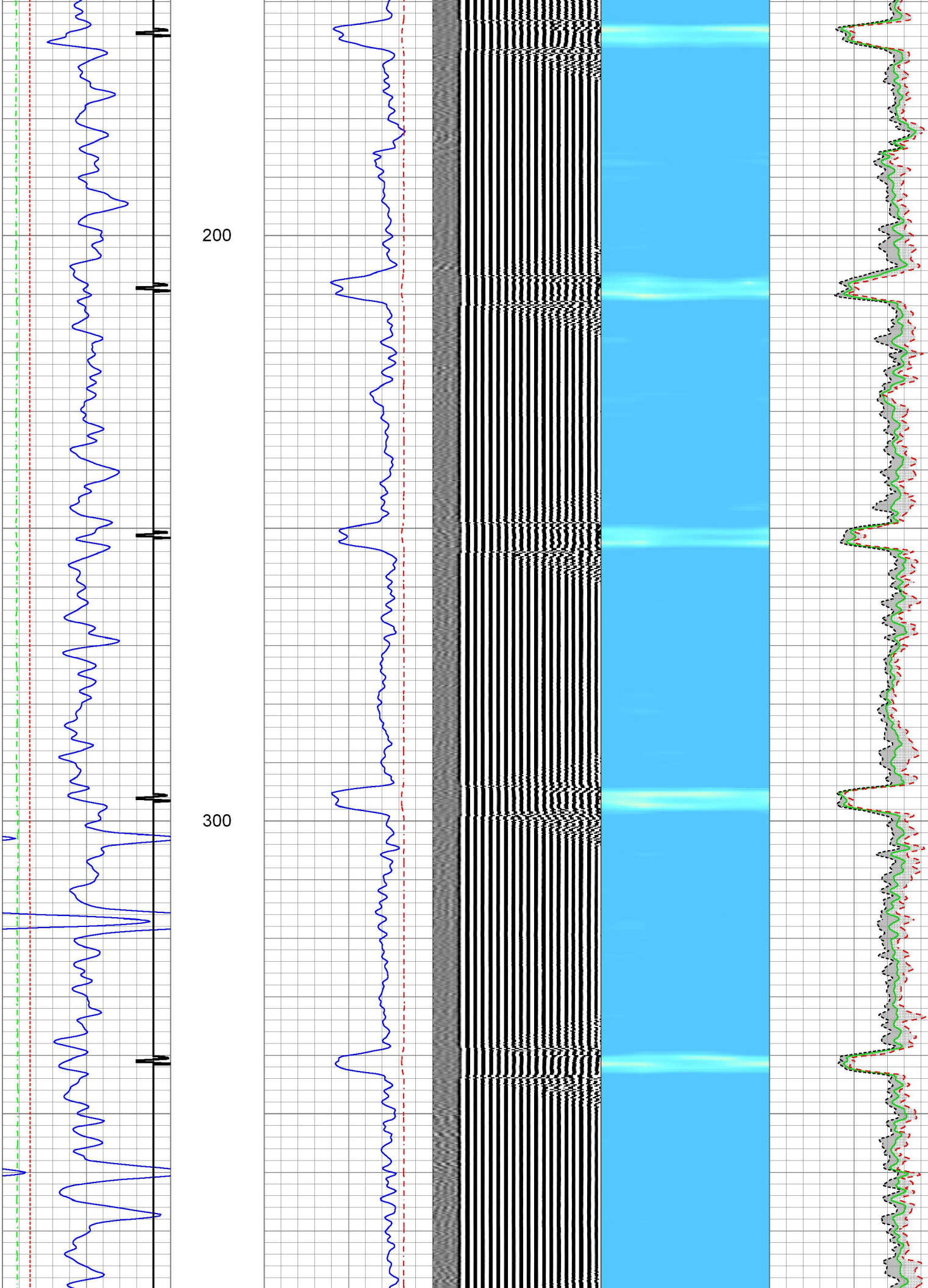


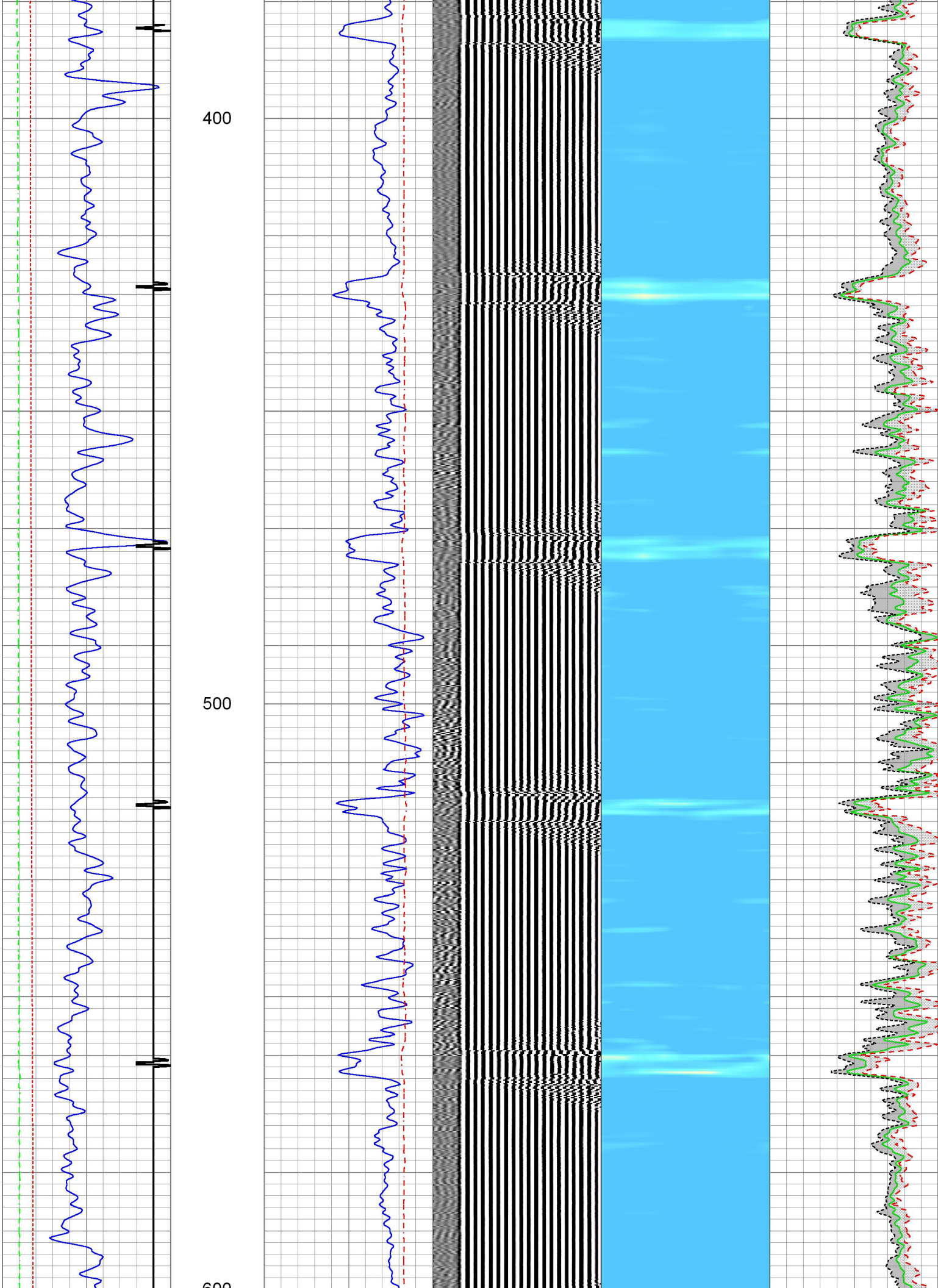
Main Pass 5" = 100'

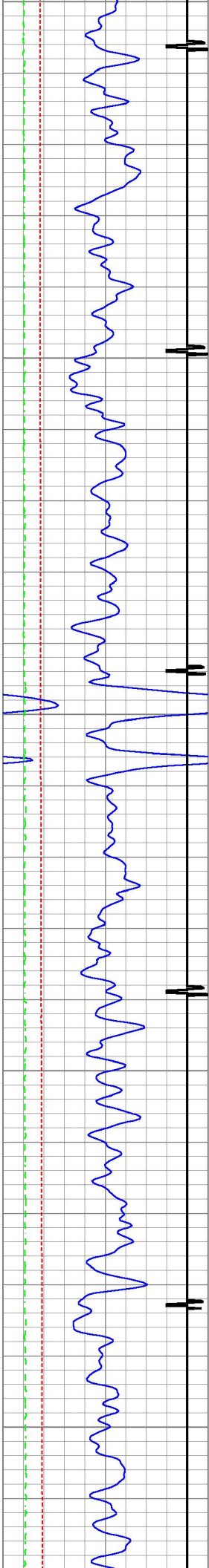
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 Dataset Pathname merge1
 Presentation Format TWG_RA~1
 Dataset Creation Wed Apr 06 15:27:39 2022
 Charted by Depth in Feet scaled 1:240

Gamma Ray 0 (GAPI) 150	3' Amplitude 0 (mV) 100	200 5' VDL 1200	Sector Map	Average Amplitude 0 120
CCL	3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 120
Line Tension 0 (lb) 4000	3' Travel Time 650 (usec) 150			Maximum Amplitude 0 120
GCT_Temp 0 (degF) 300				

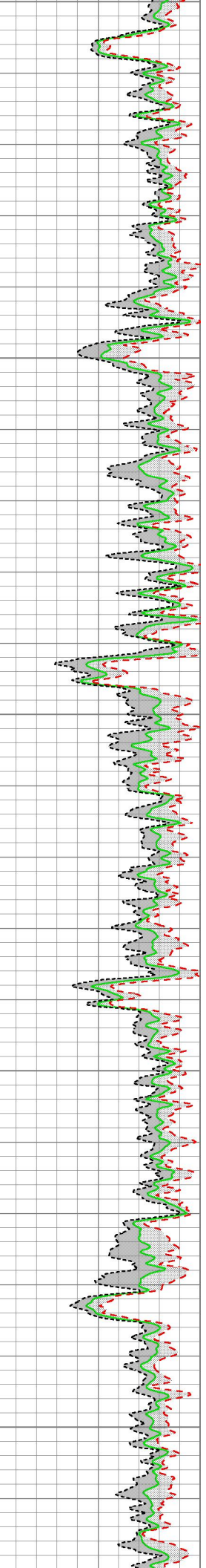
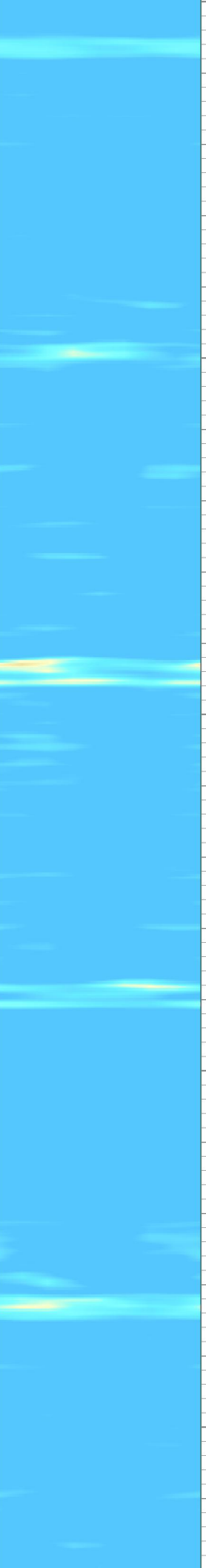
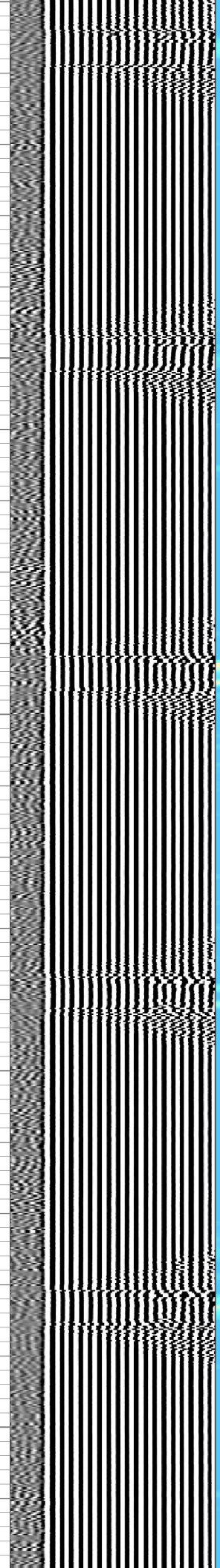
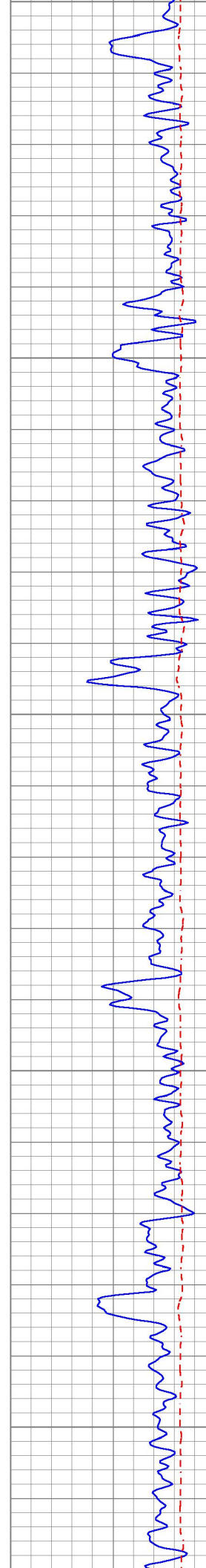


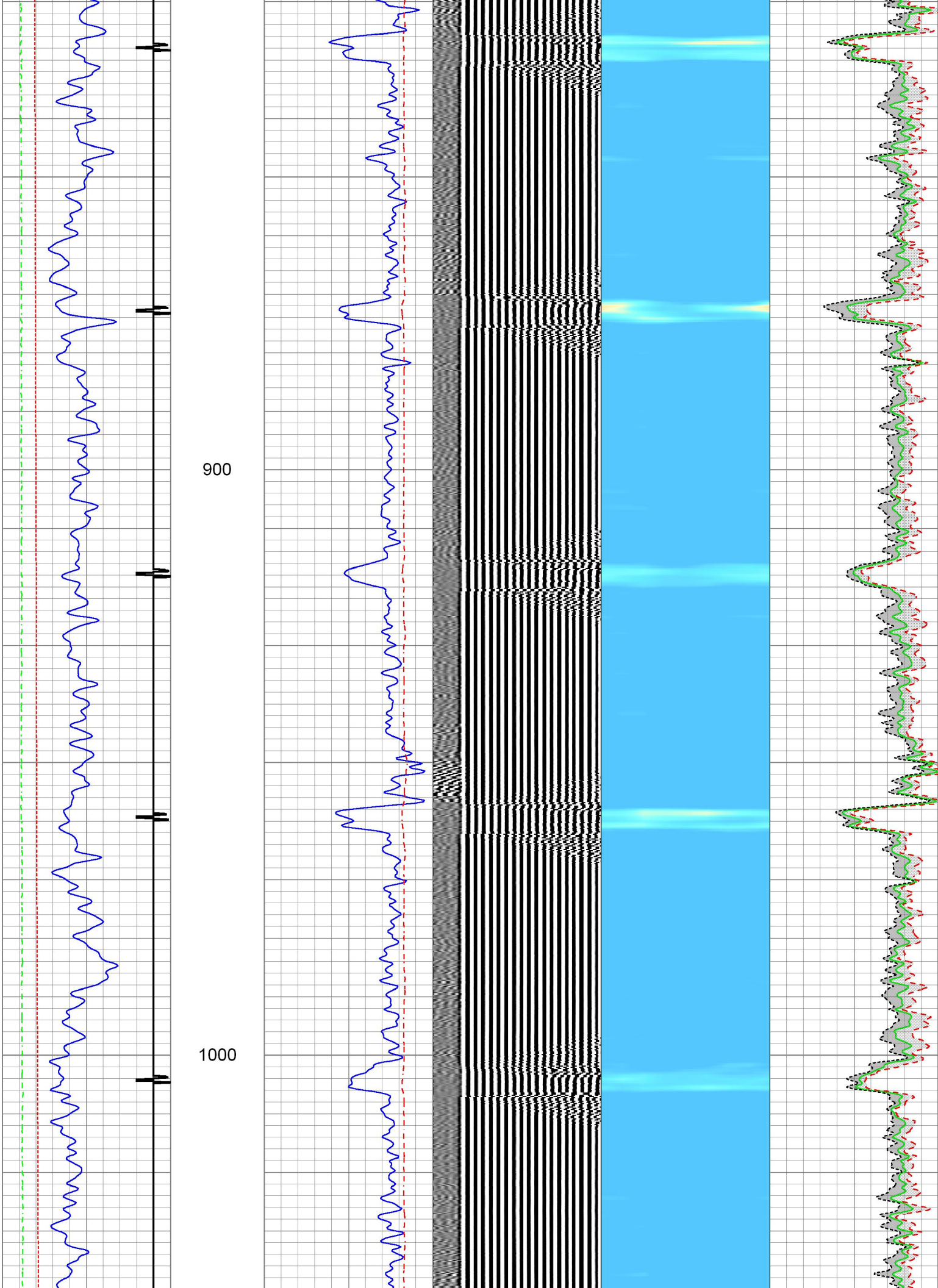


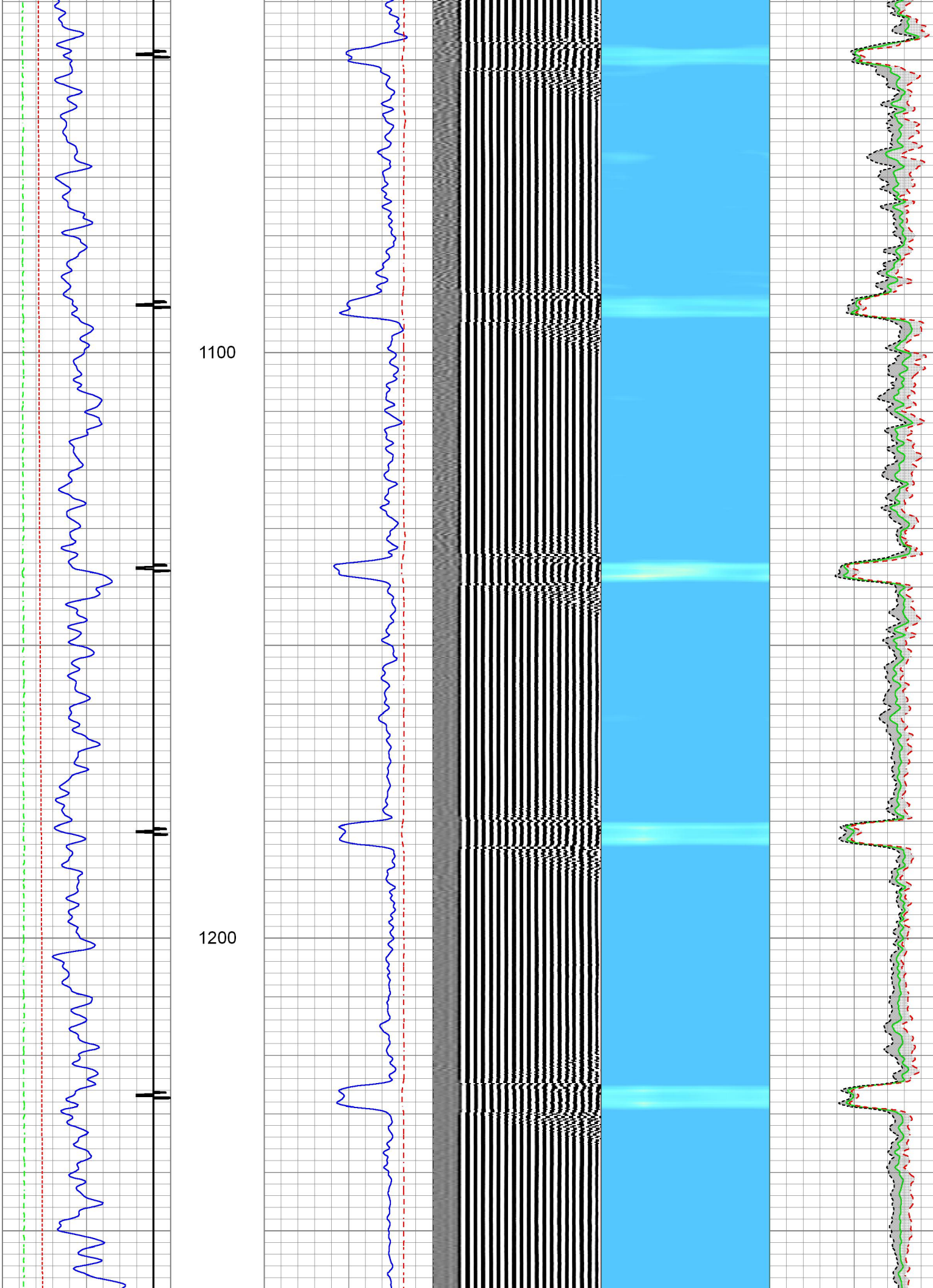


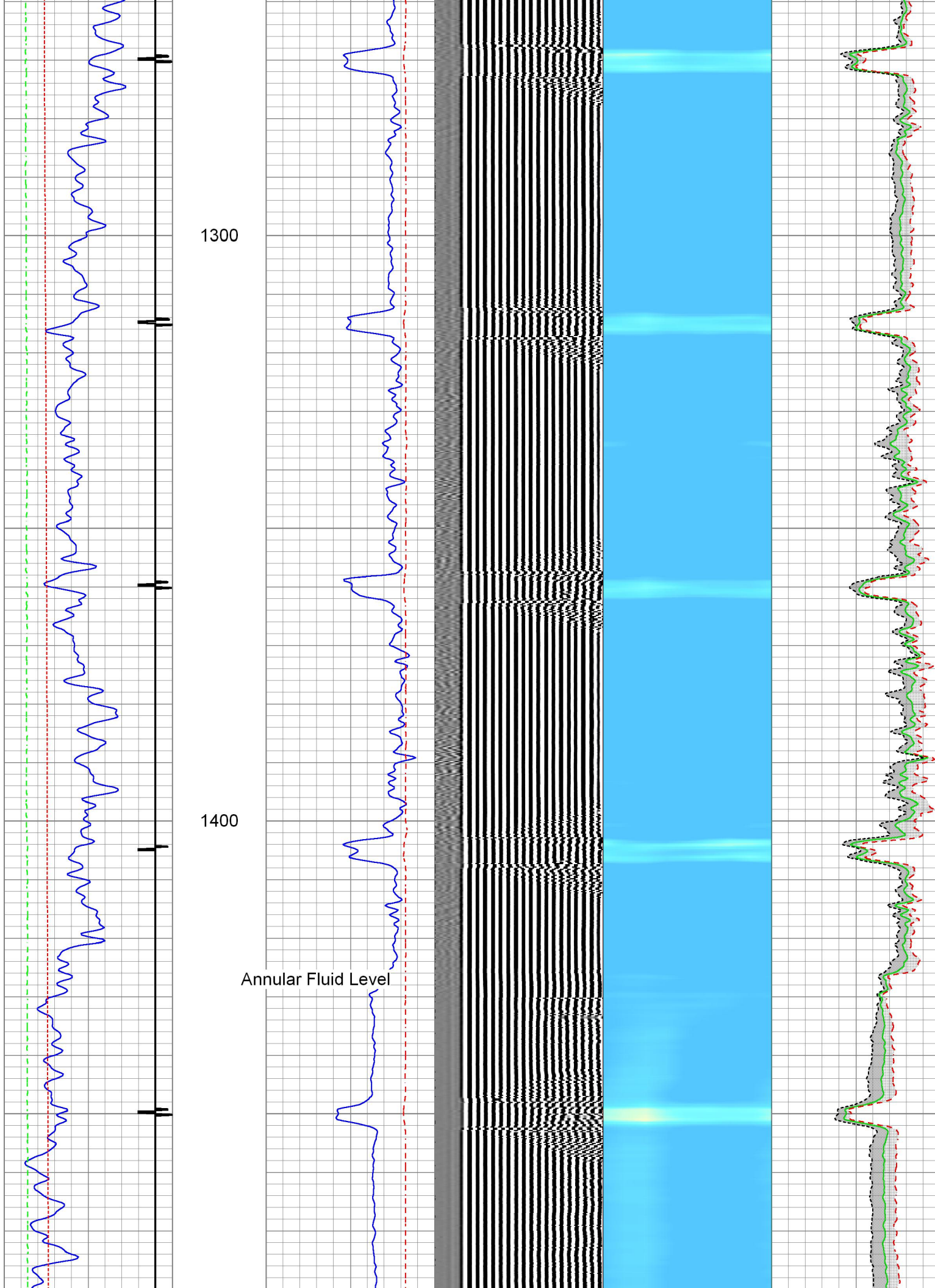


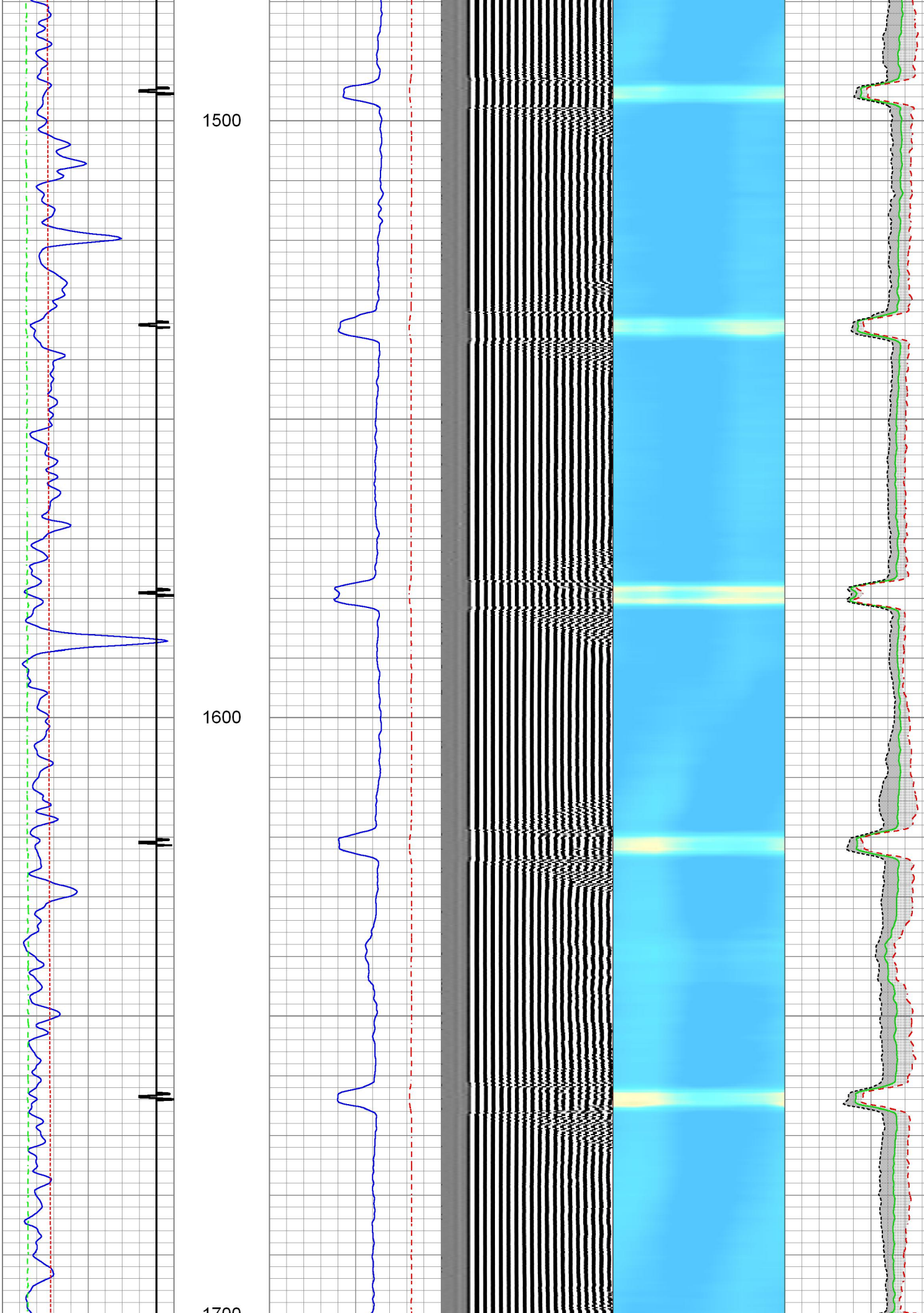
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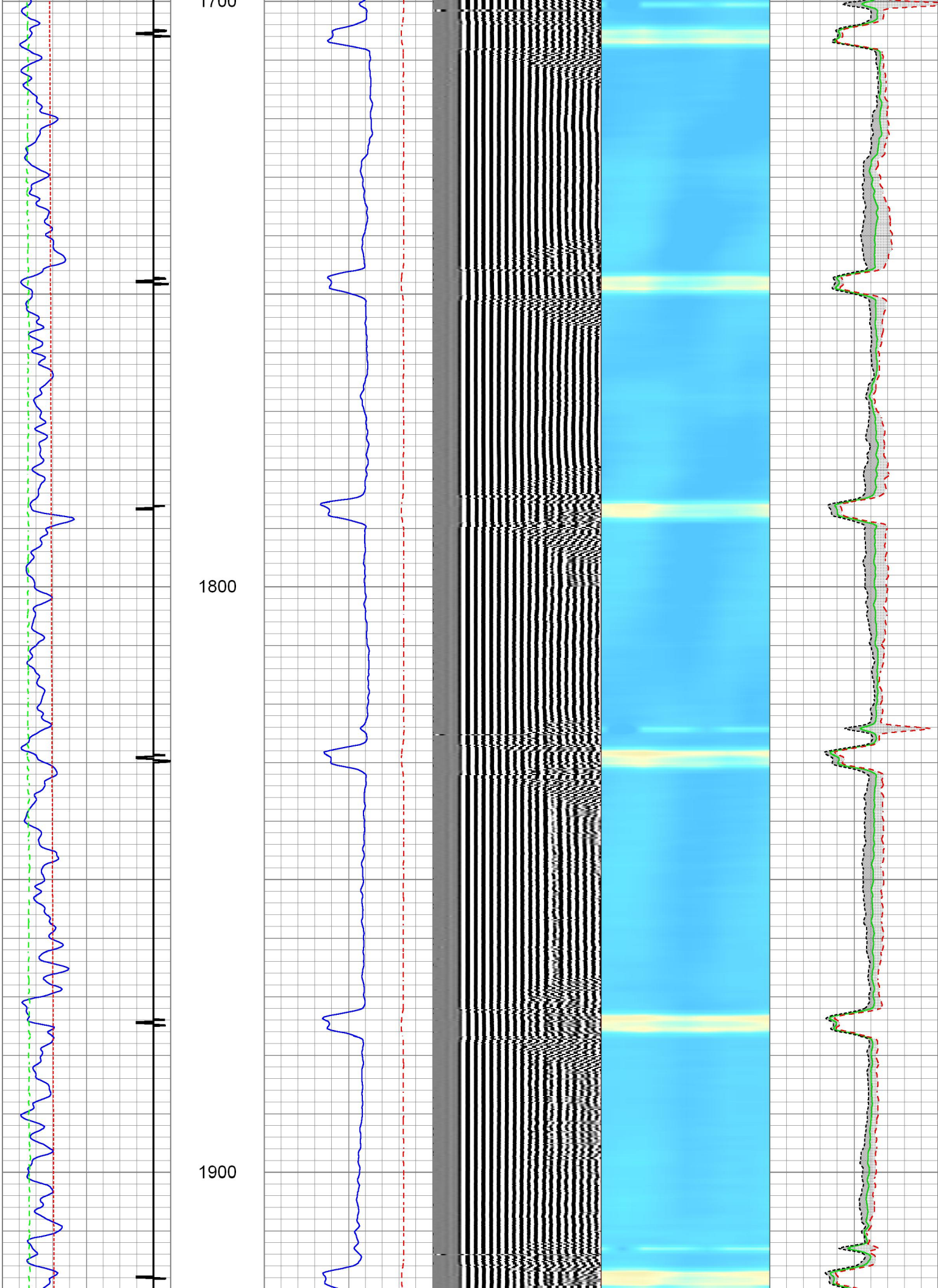


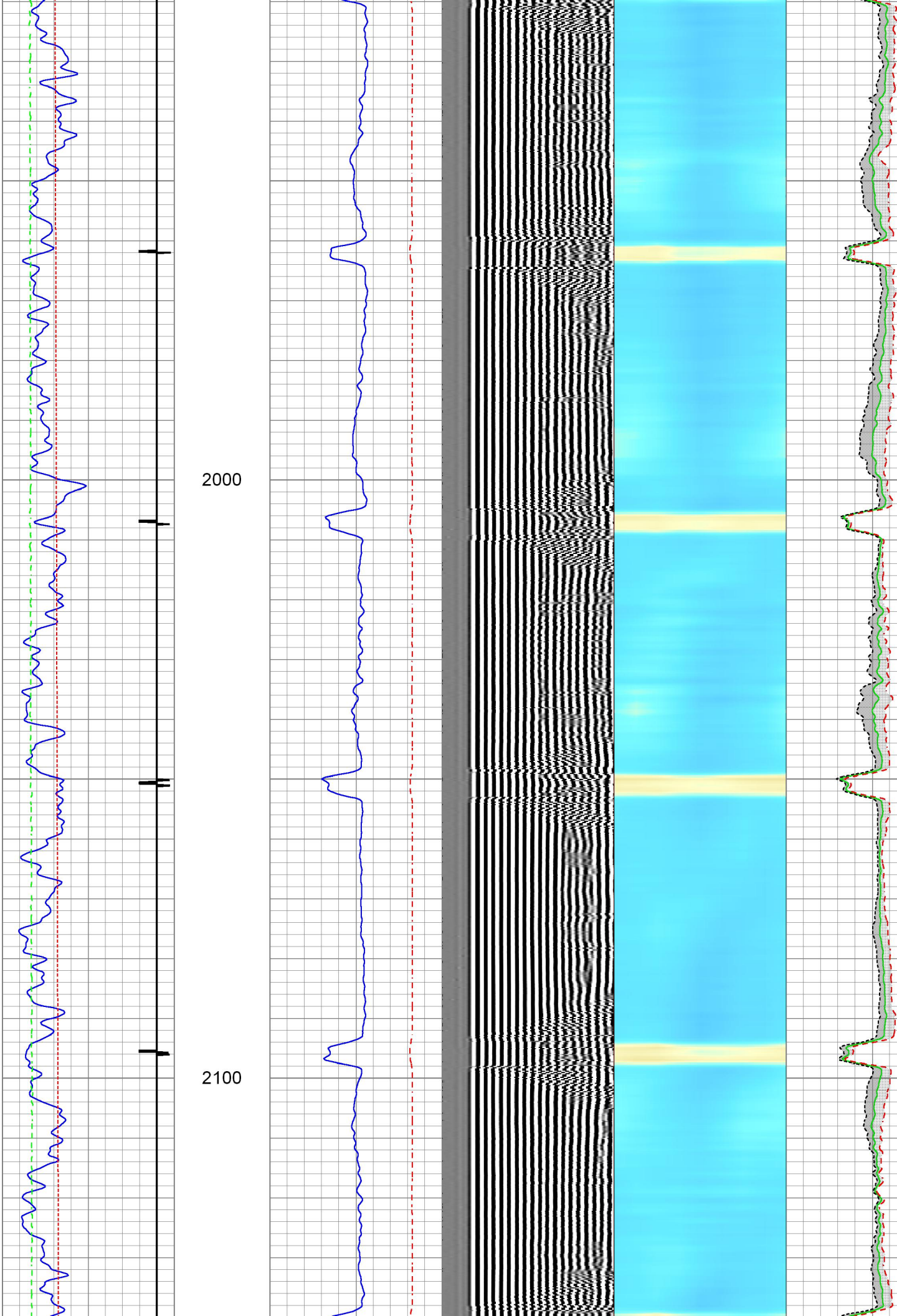


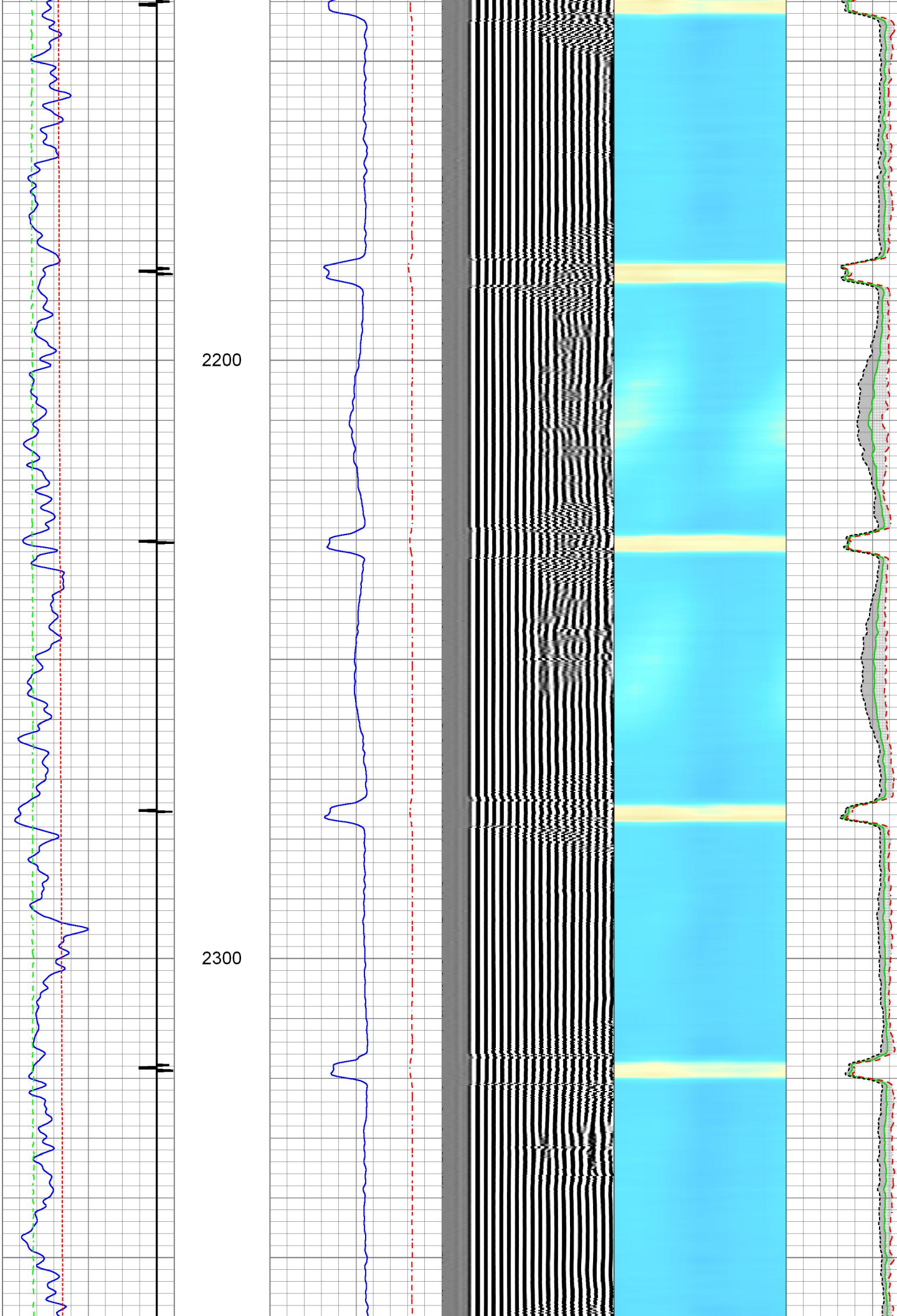


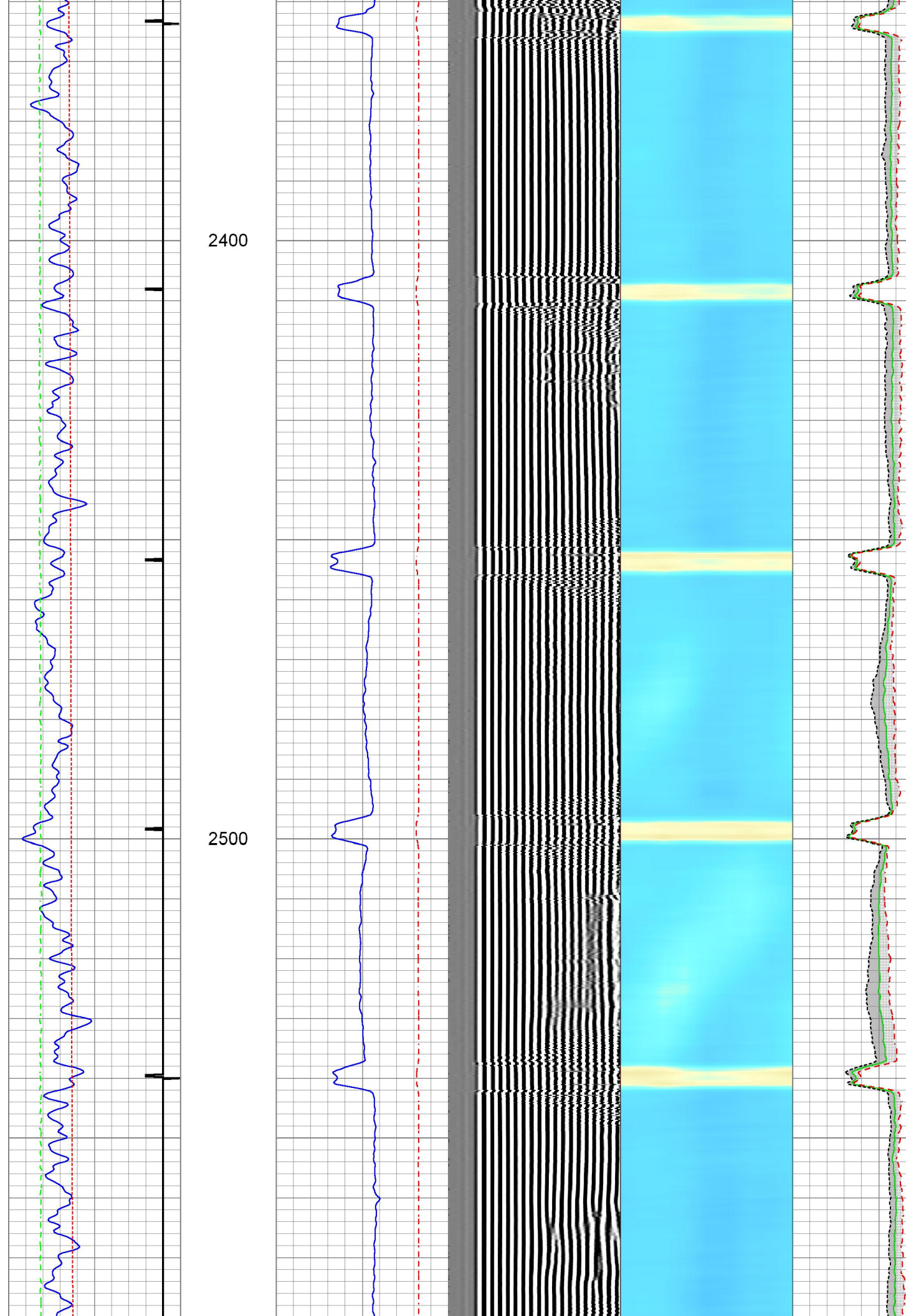


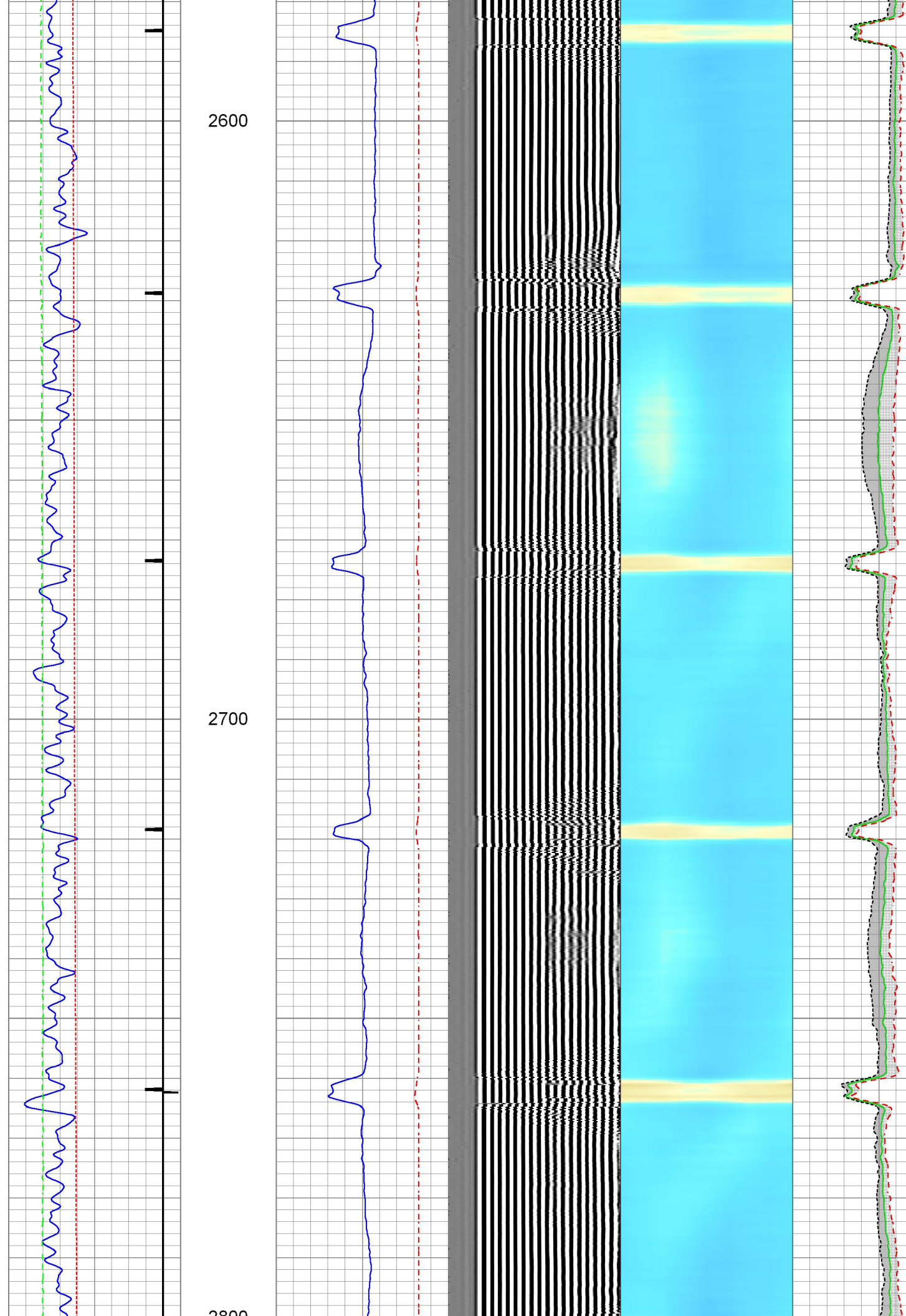








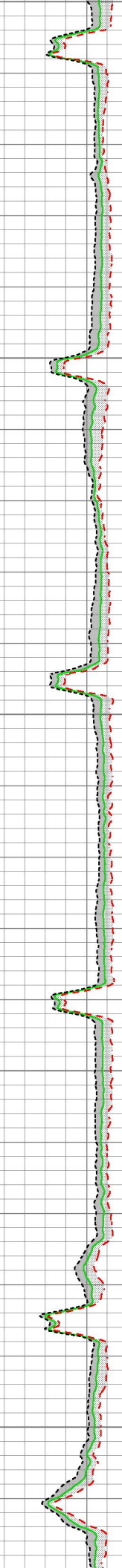
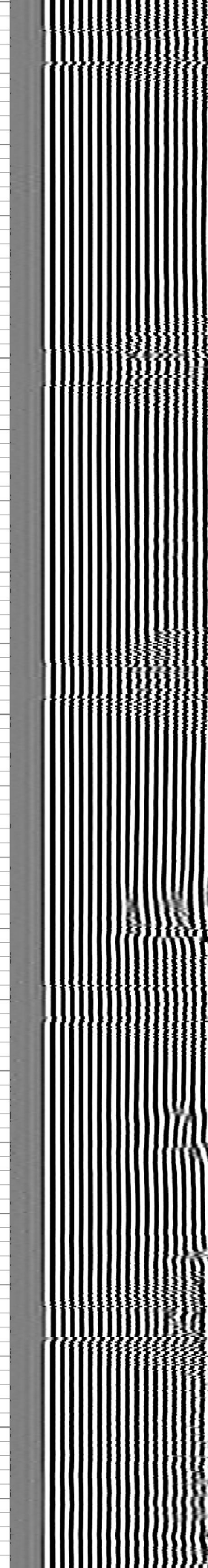
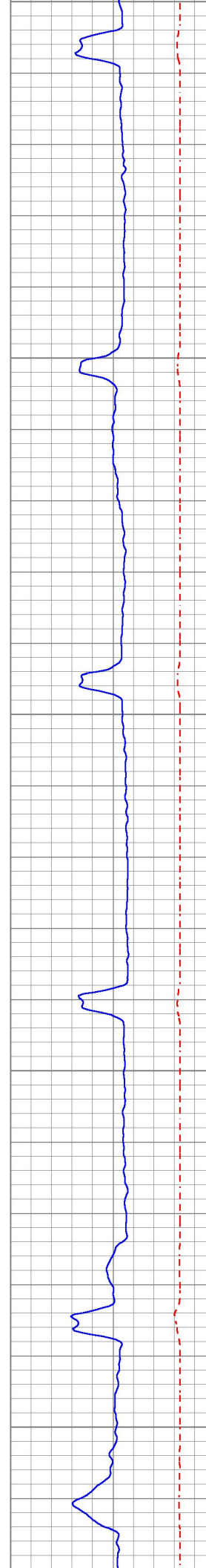
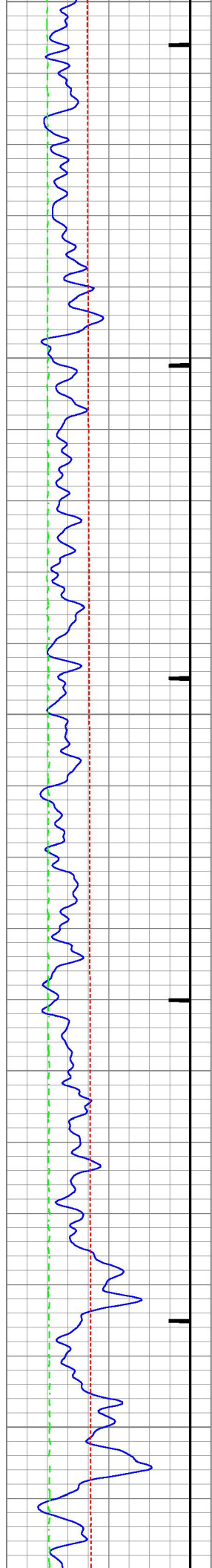


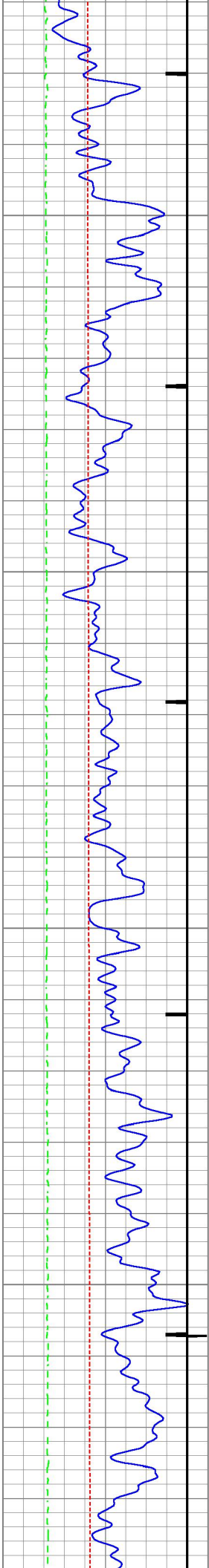


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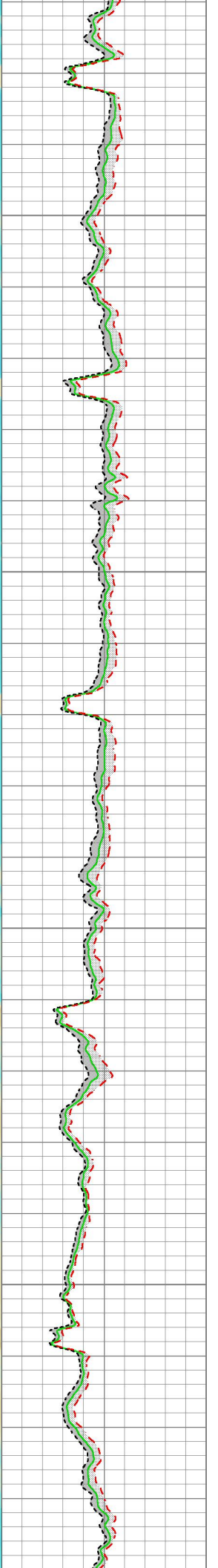
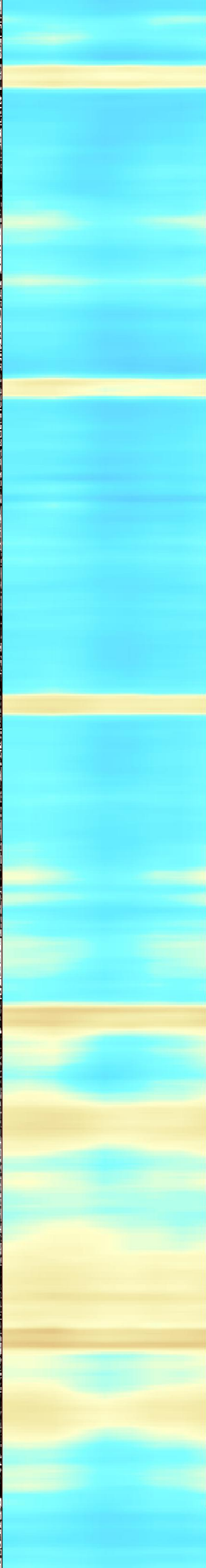
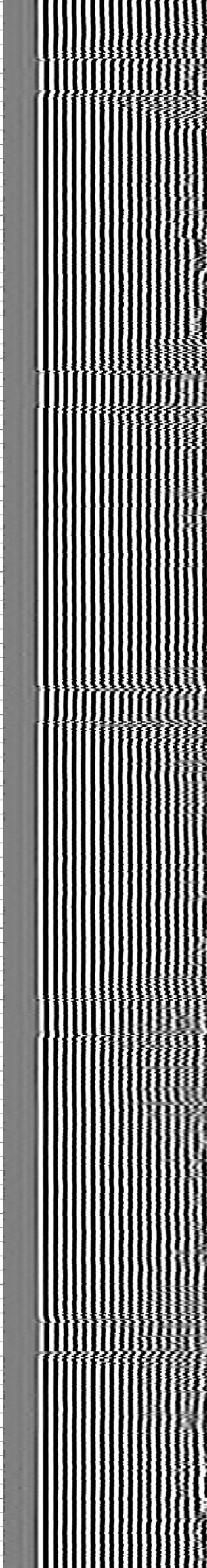
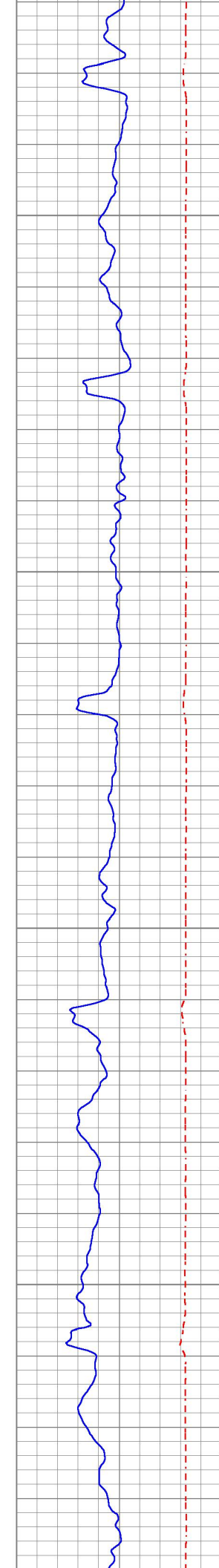
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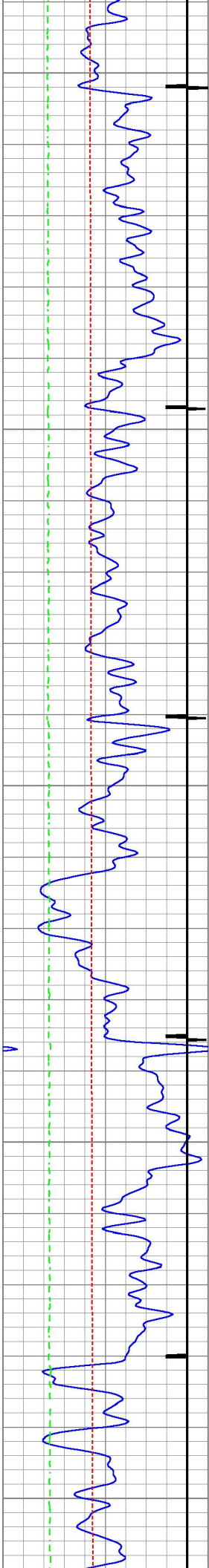




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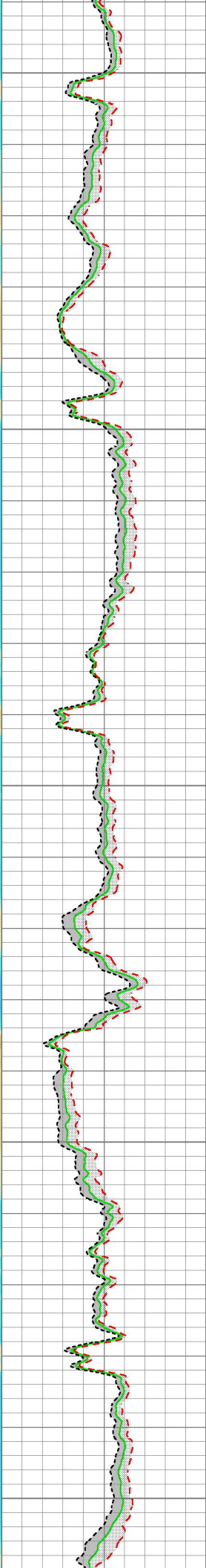
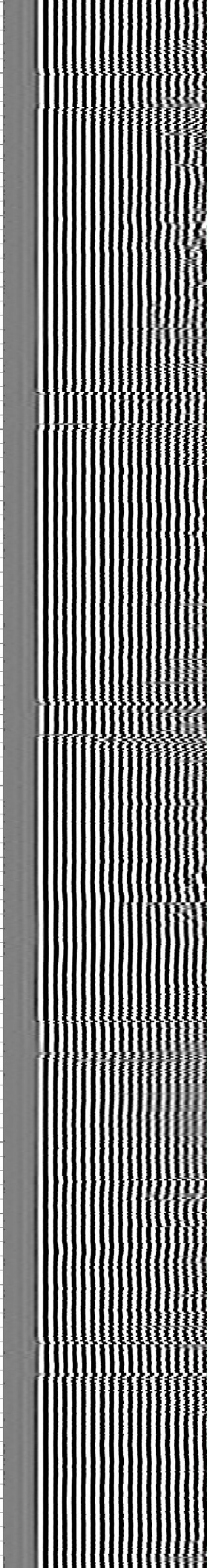
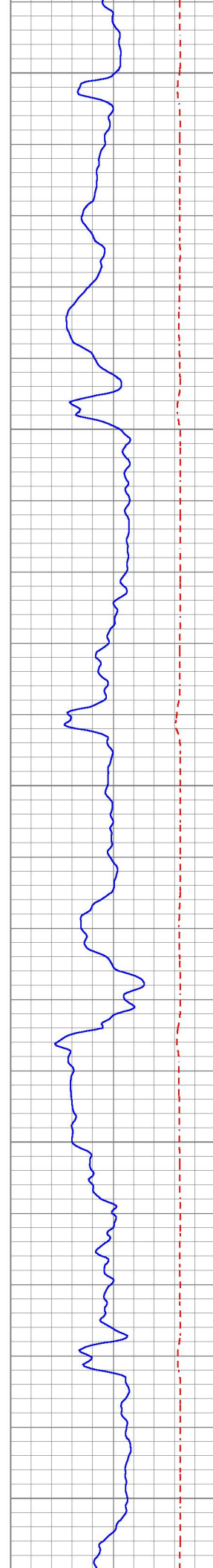
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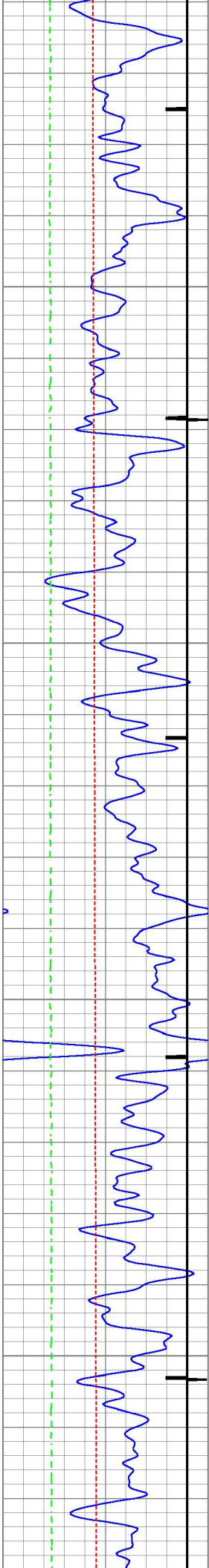




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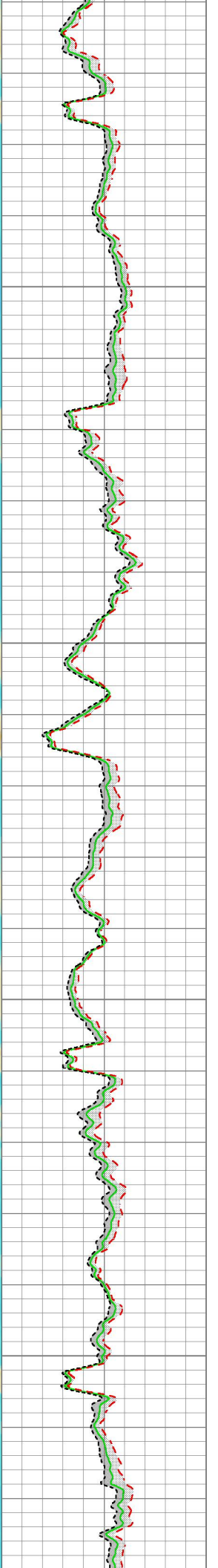
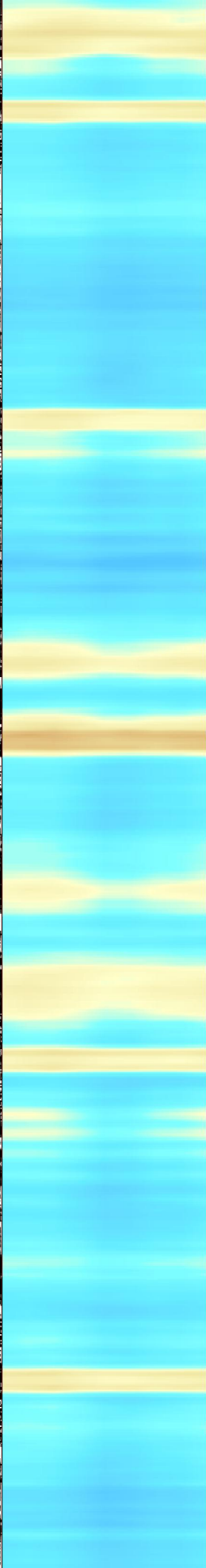
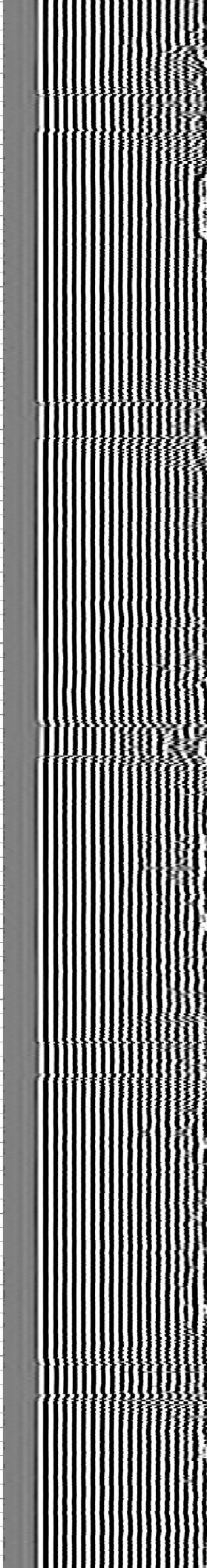
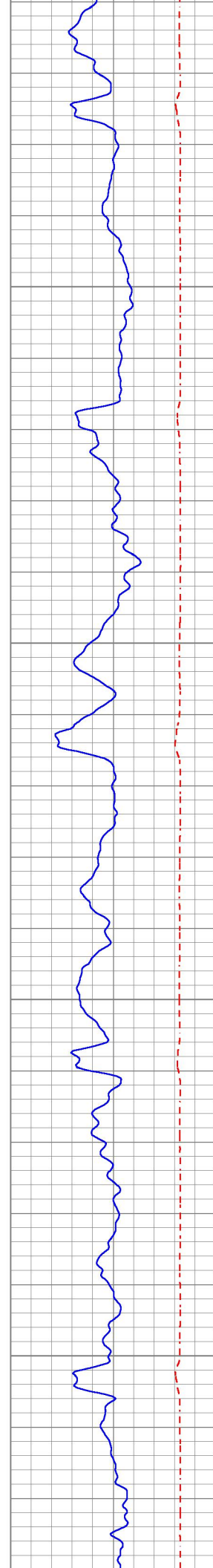
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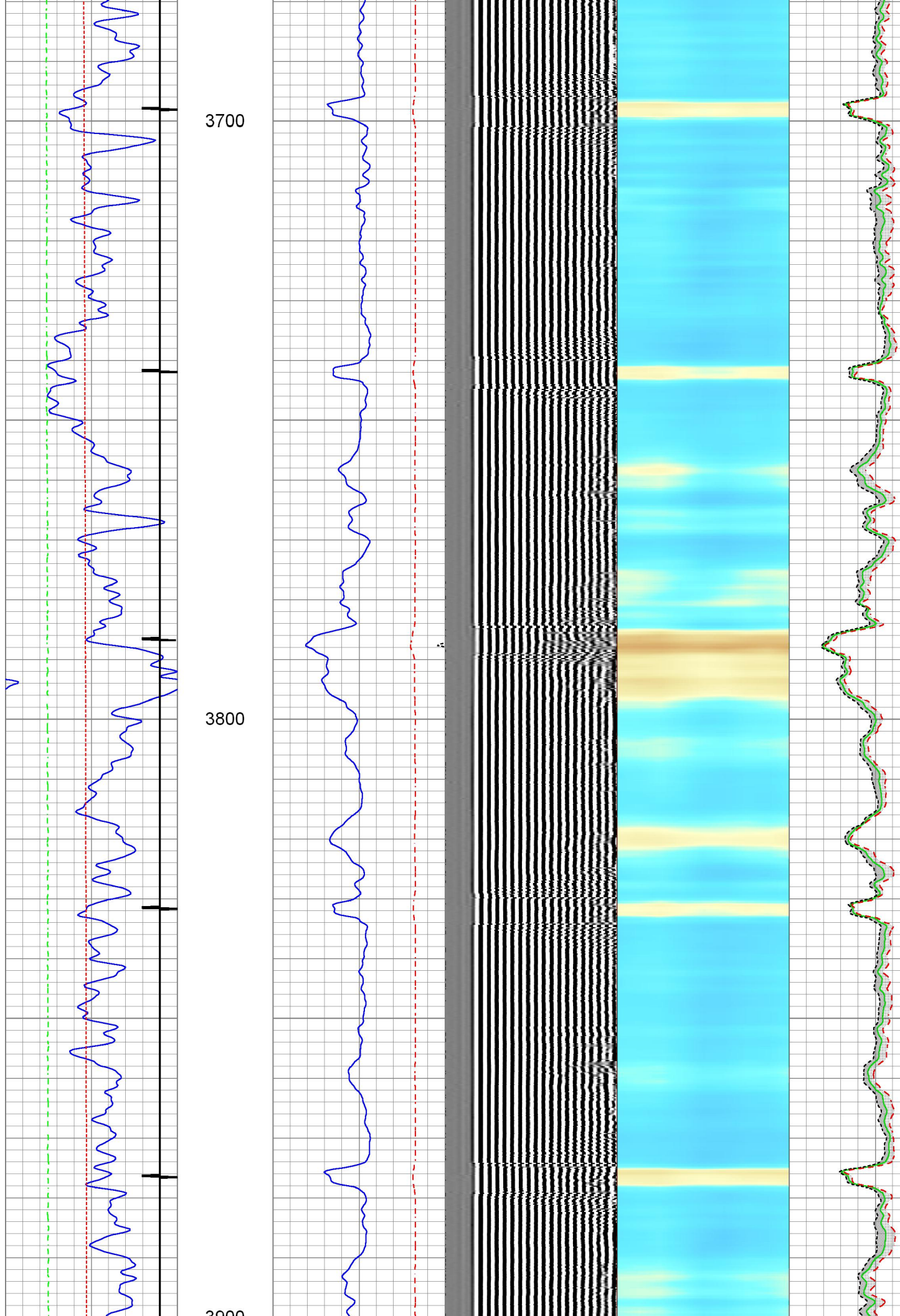




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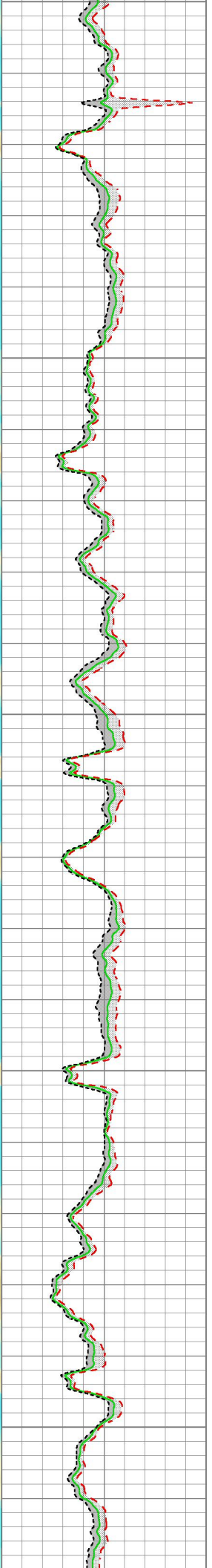
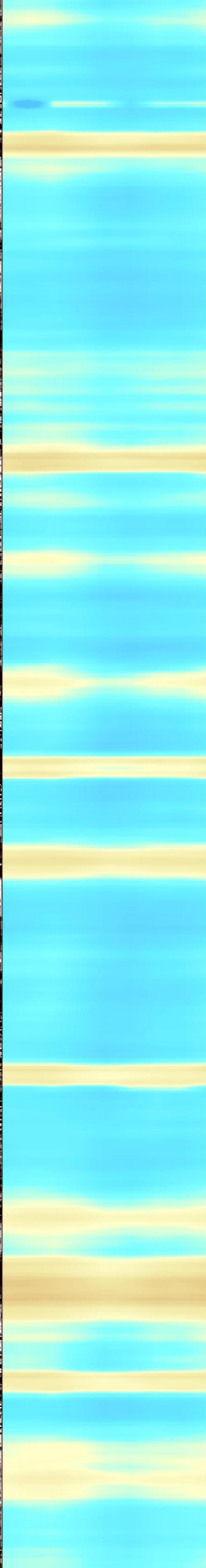
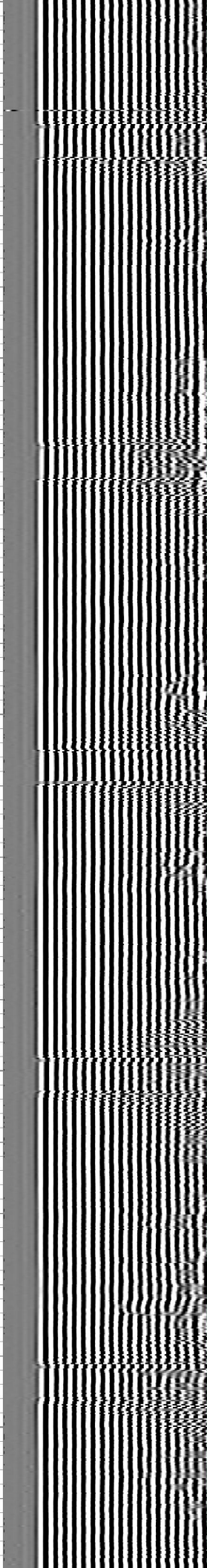
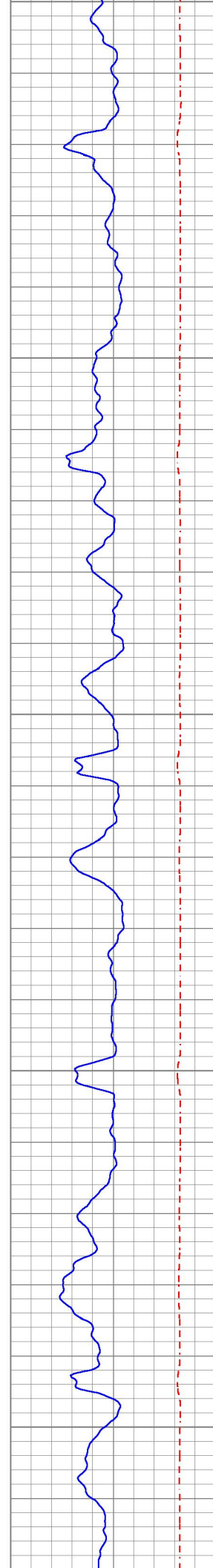
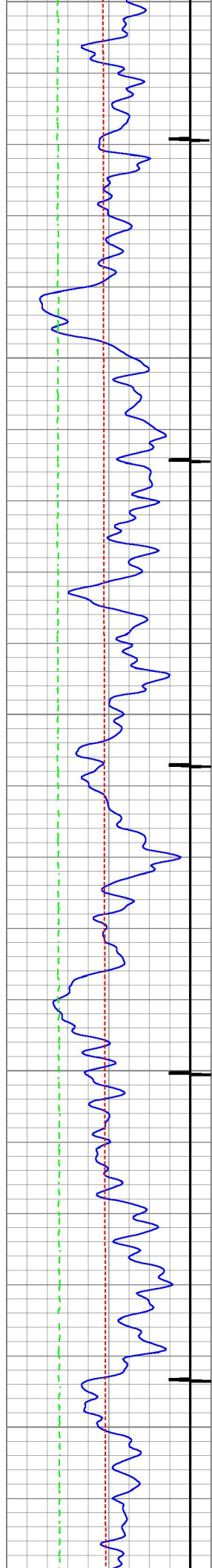


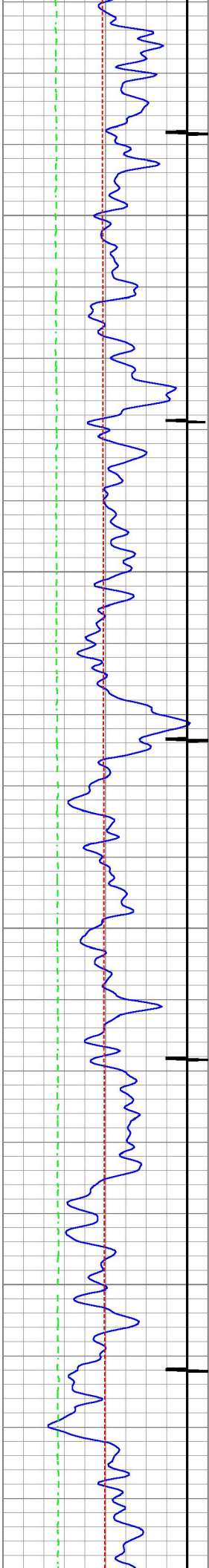


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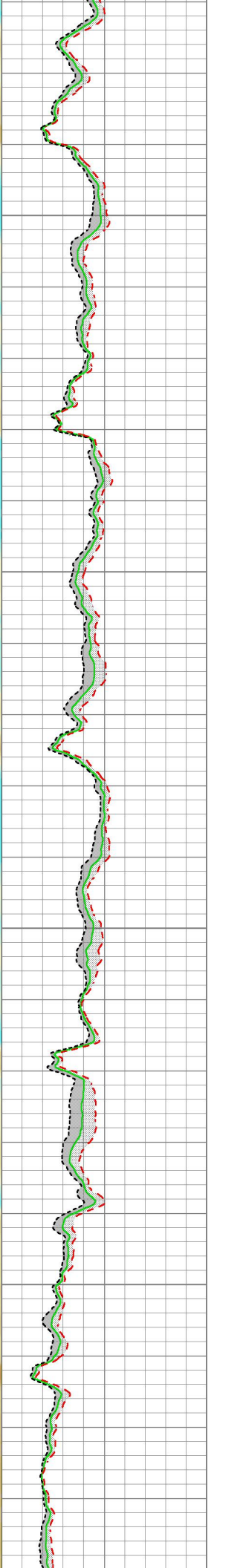
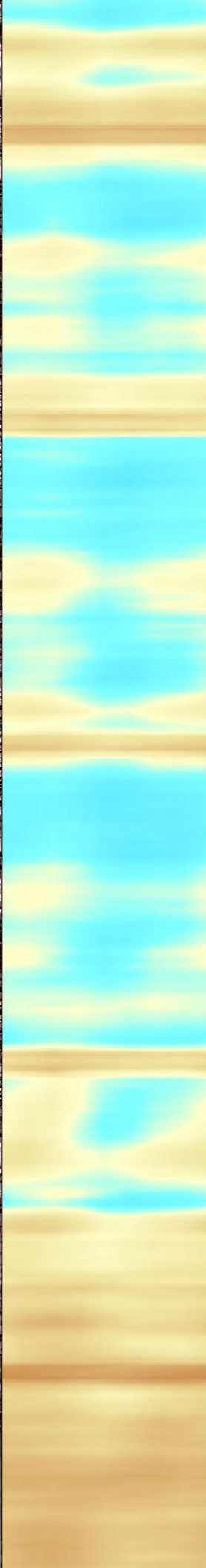
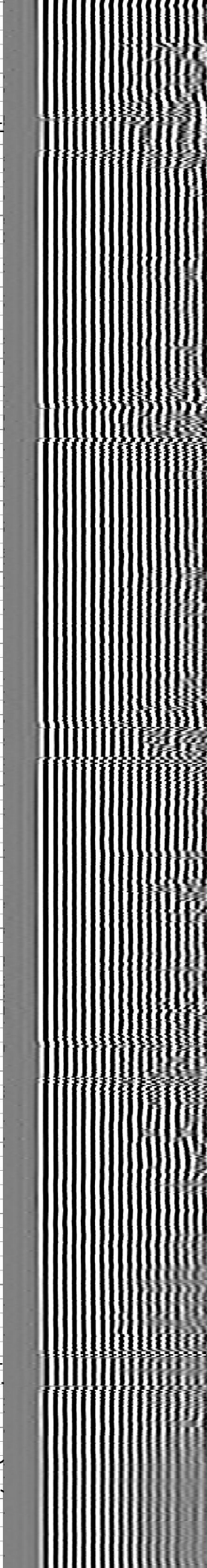
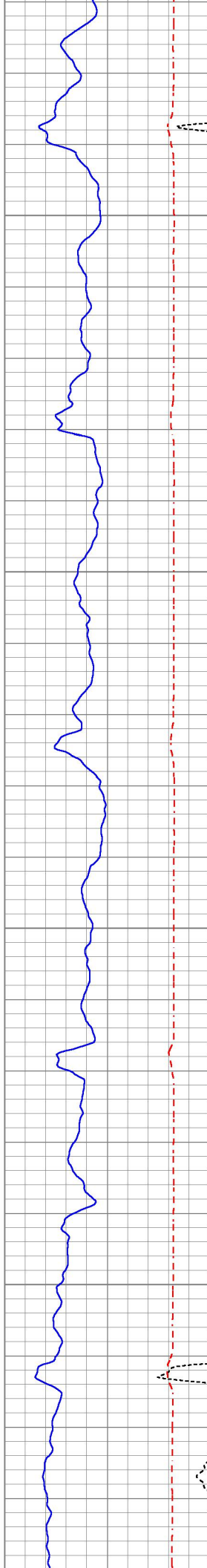
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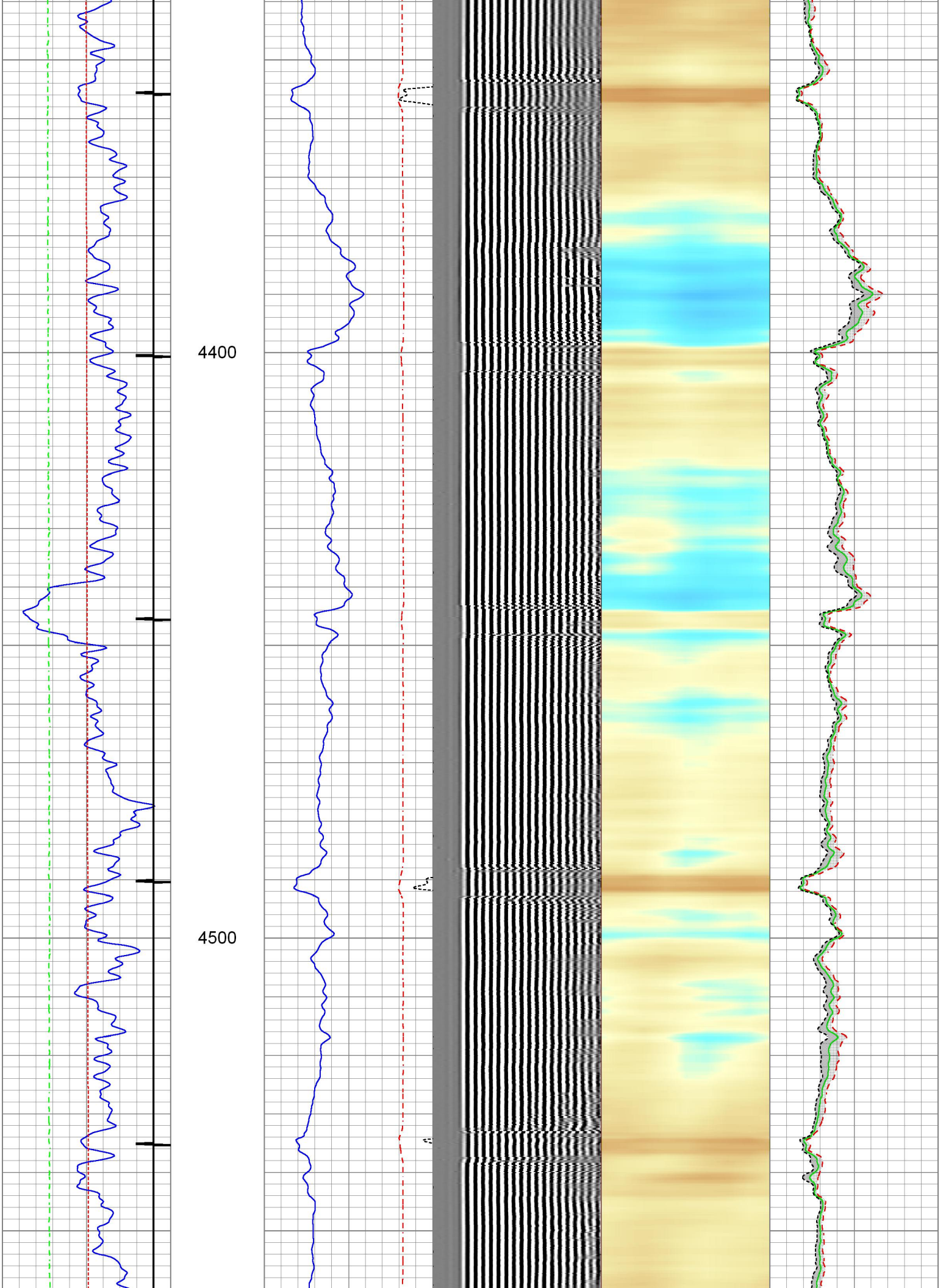


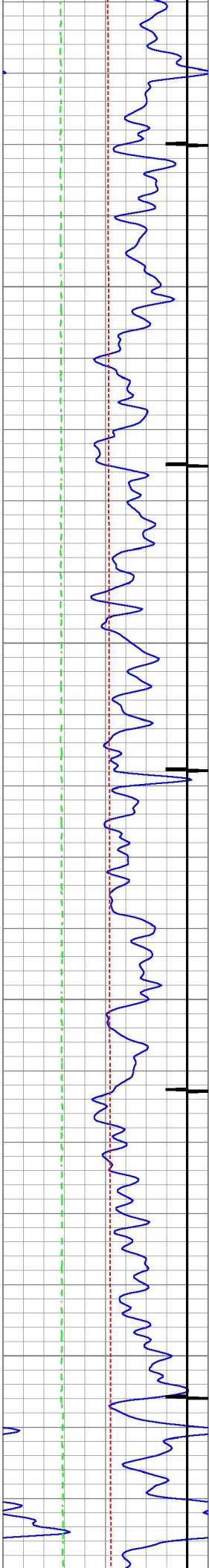


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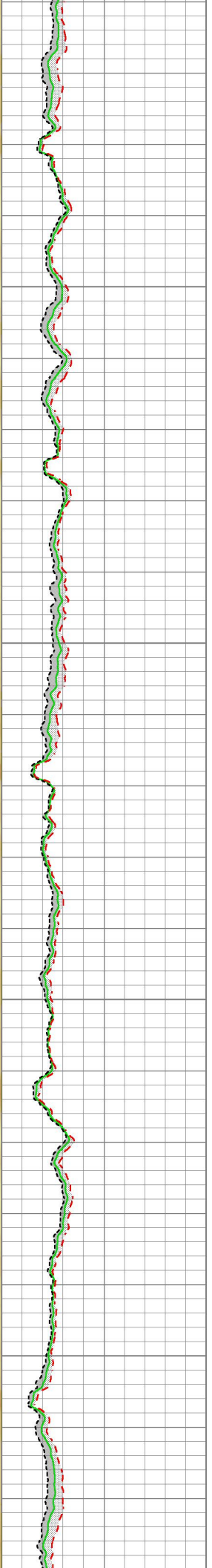
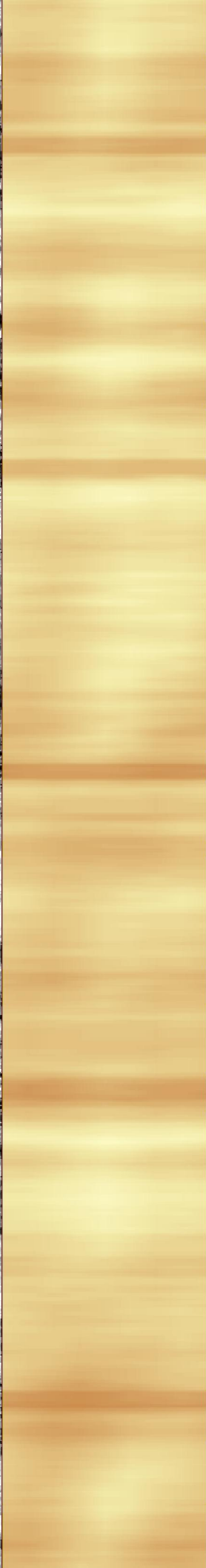
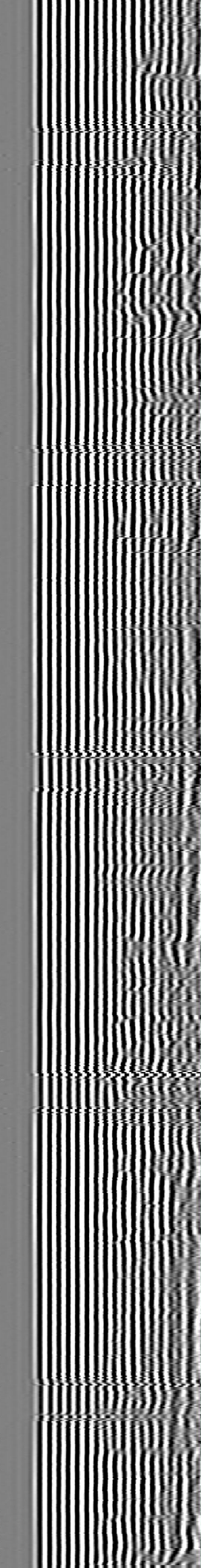
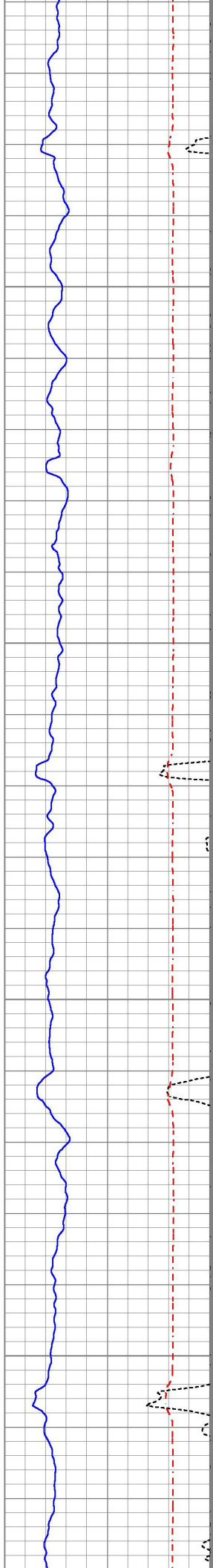


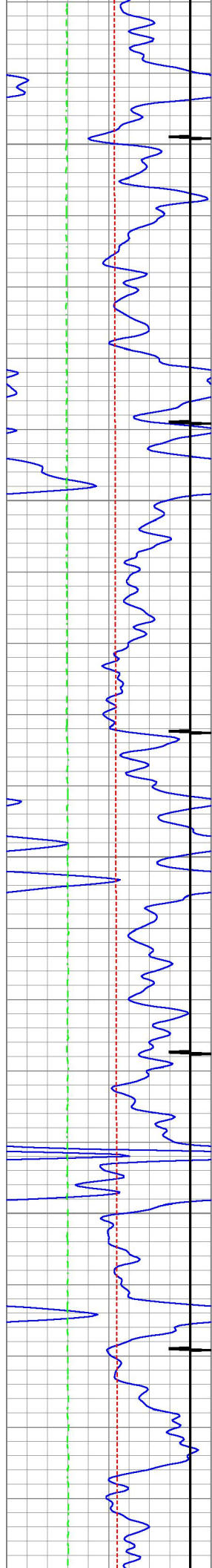




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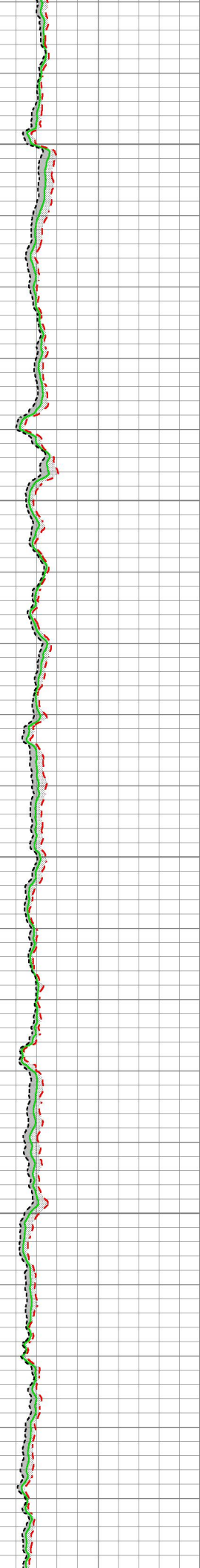
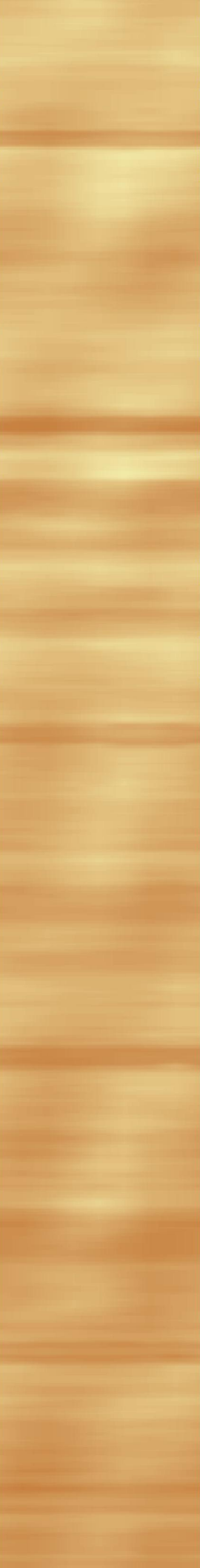
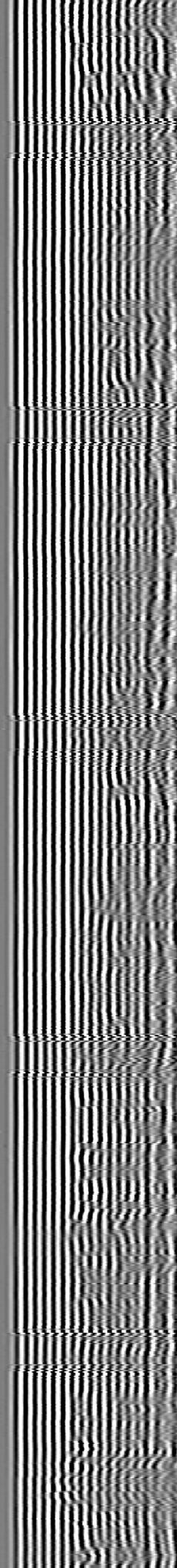
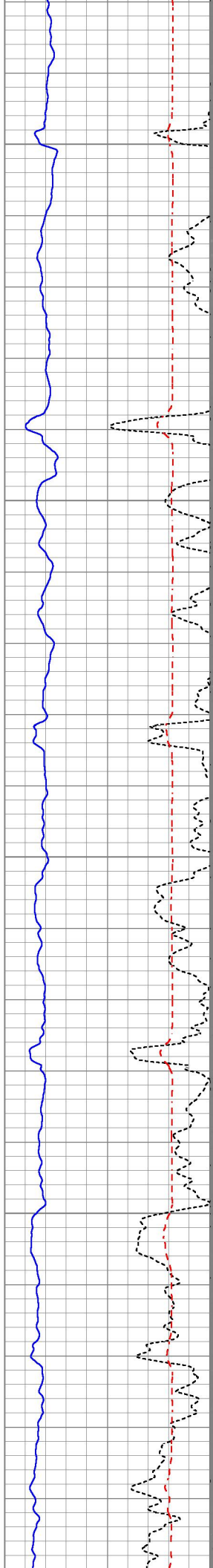


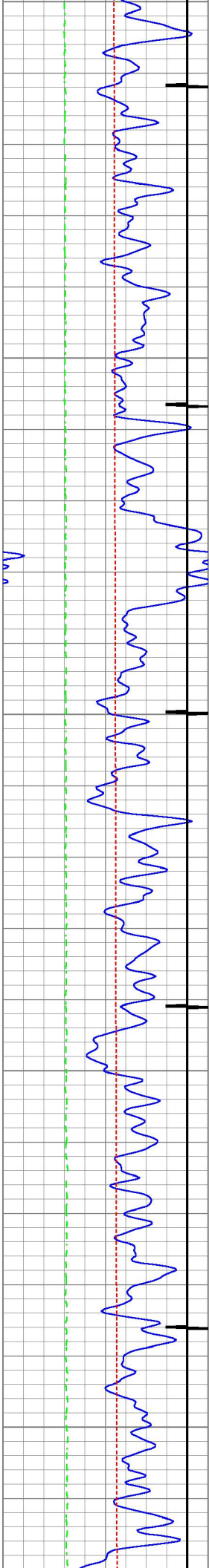


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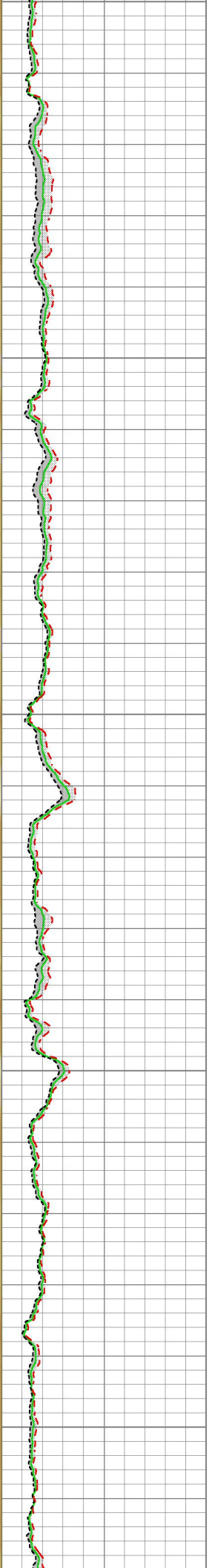
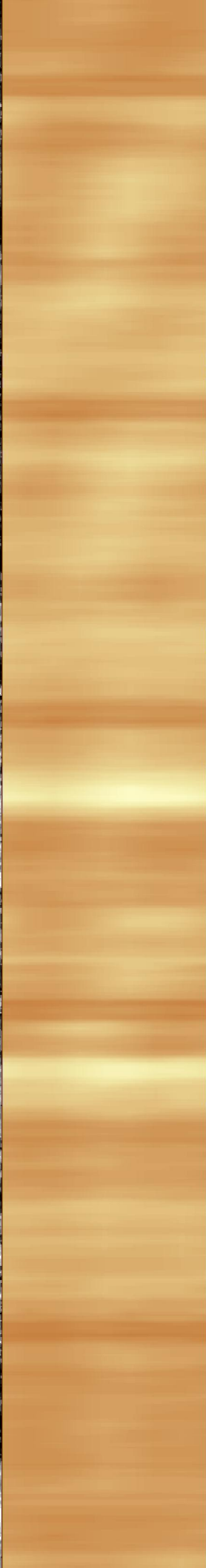
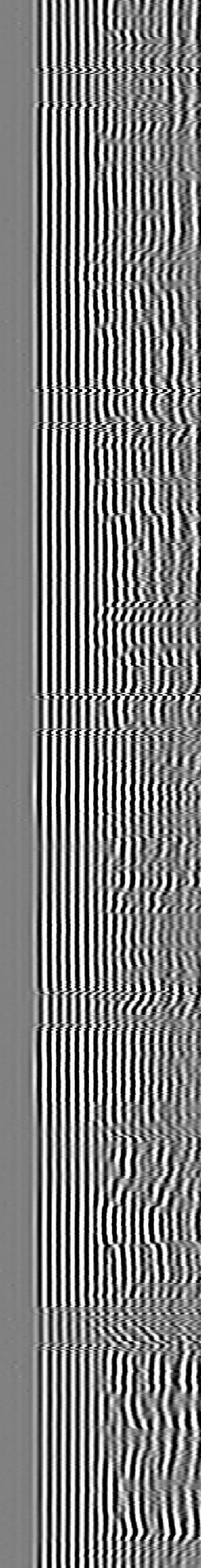
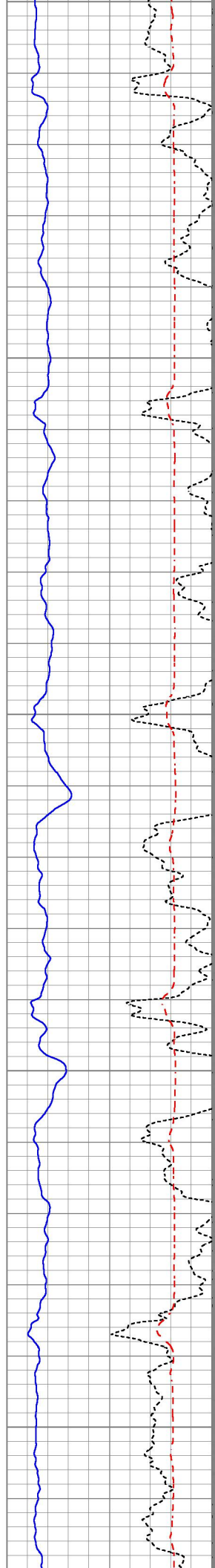
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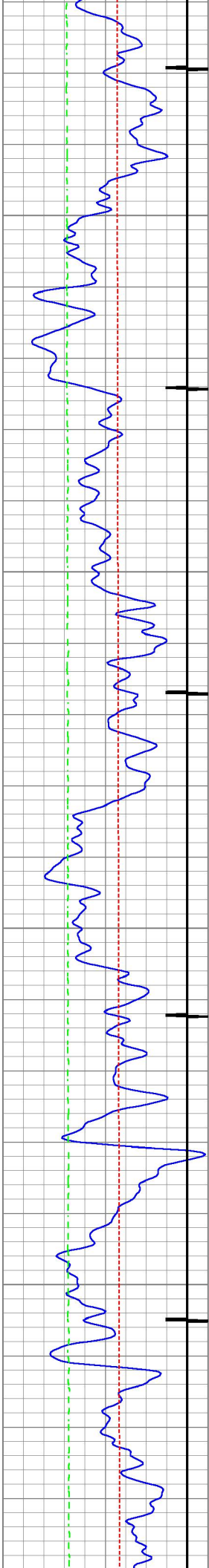
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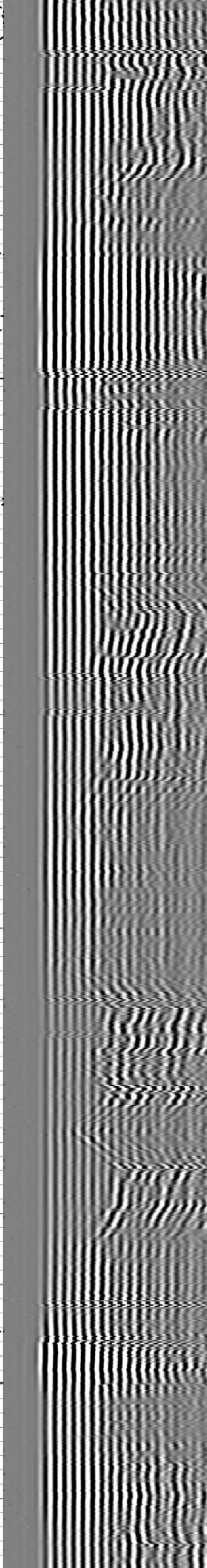
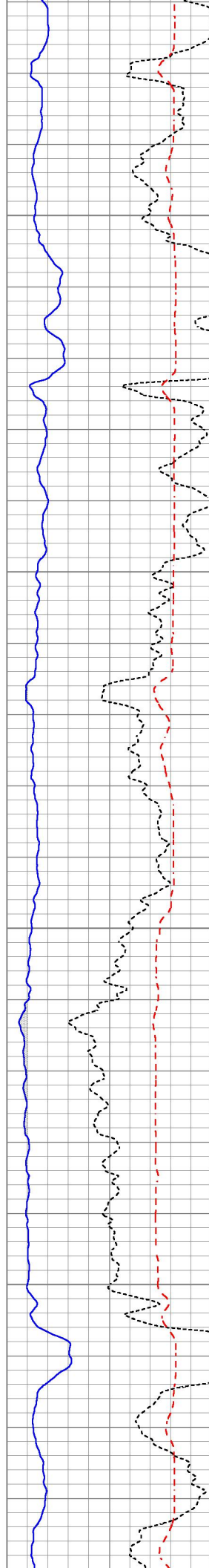
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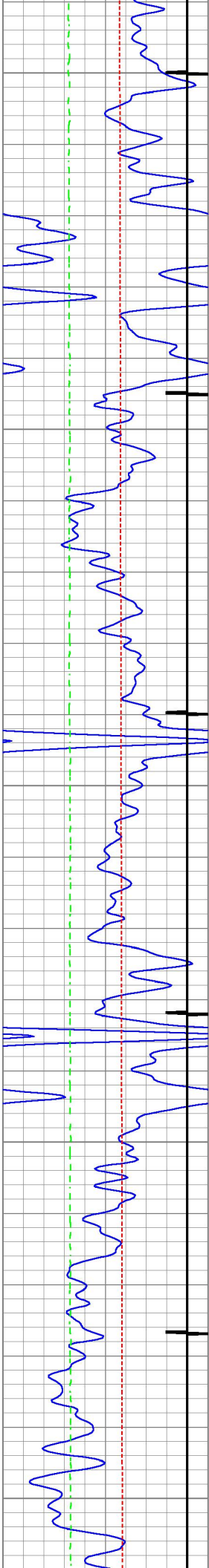




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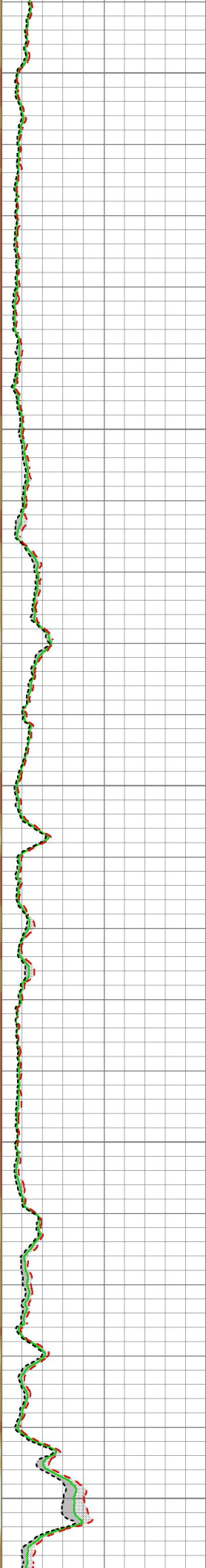
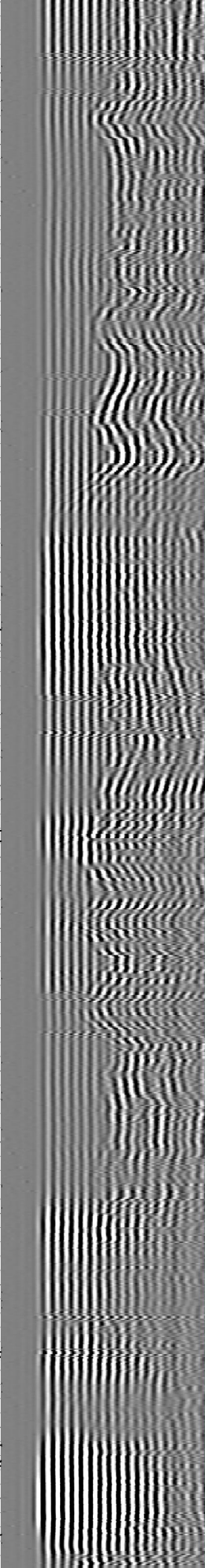
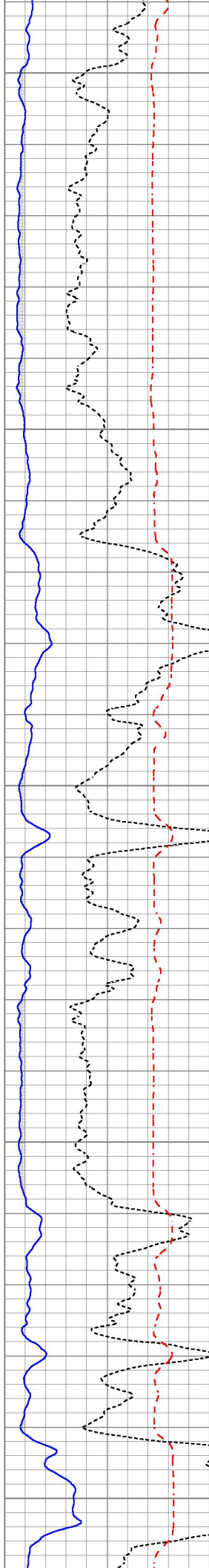
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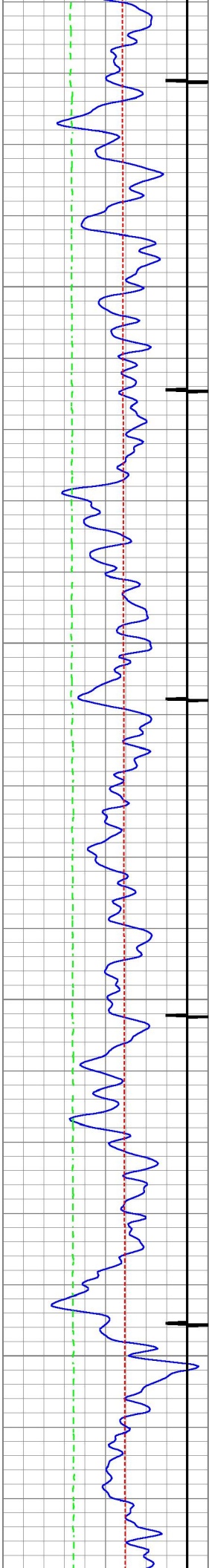




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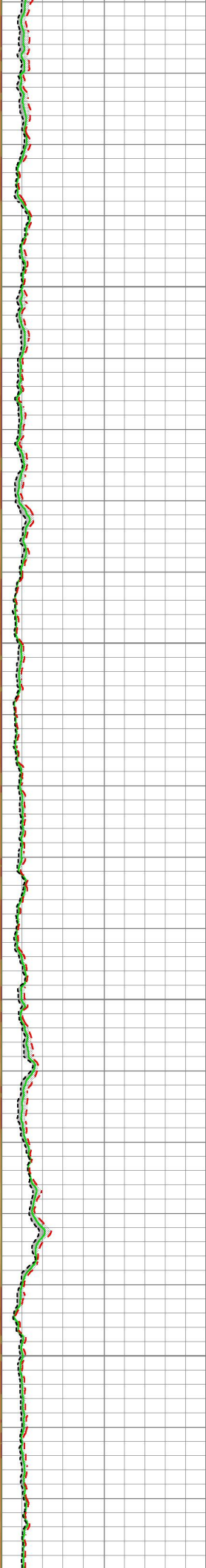
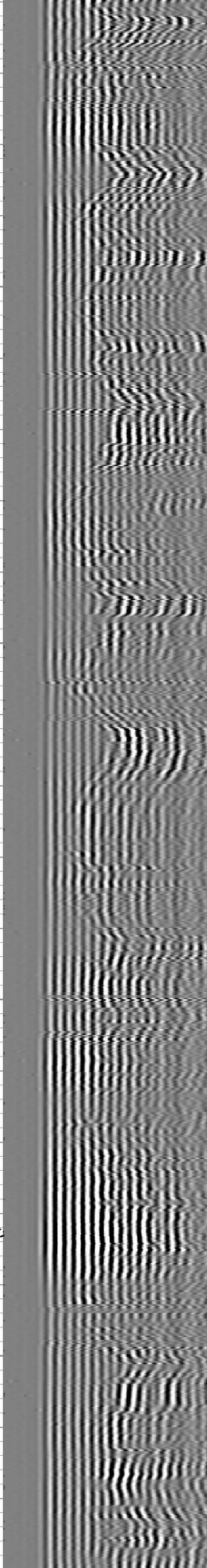
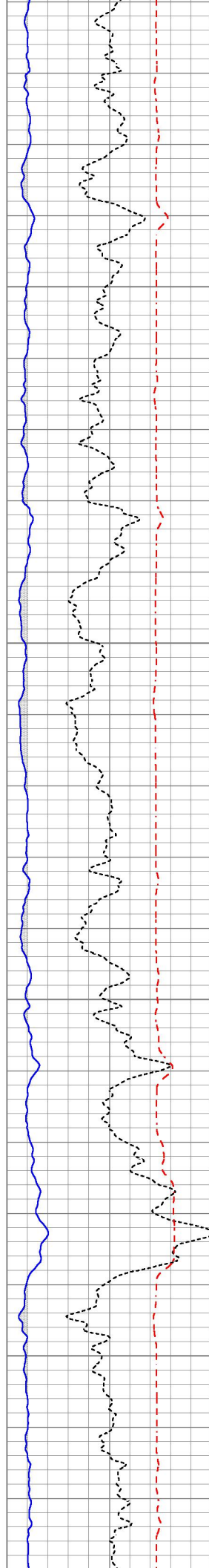
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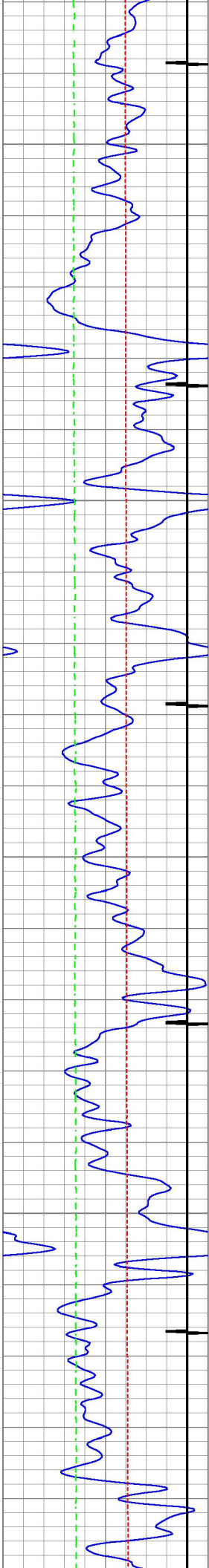




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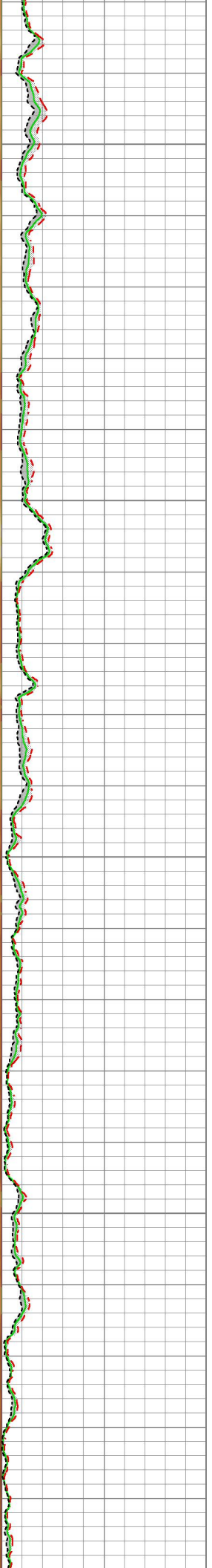
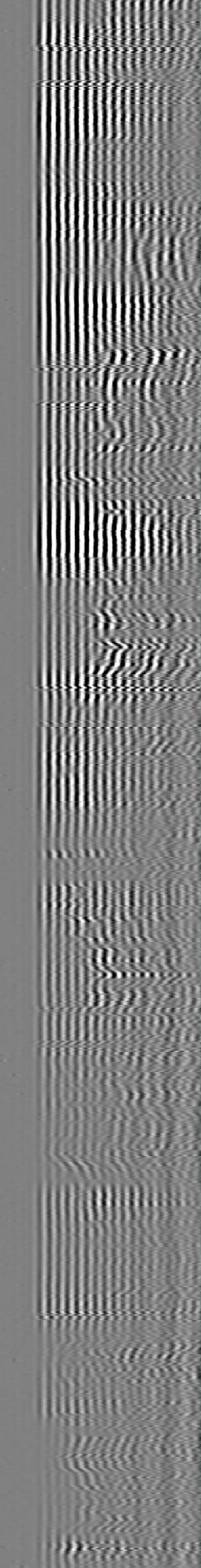
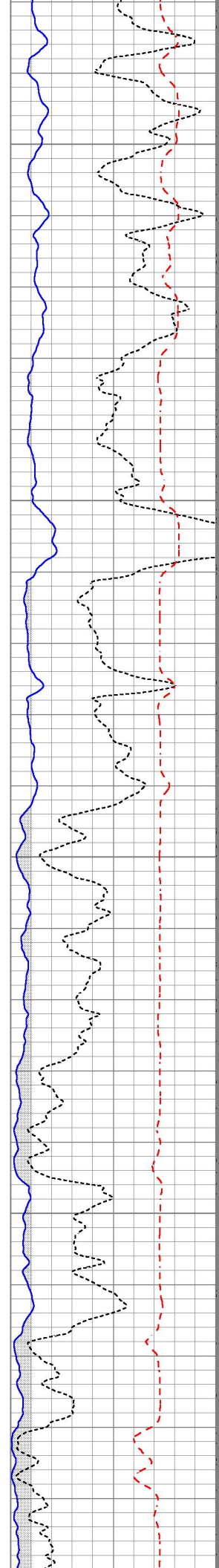


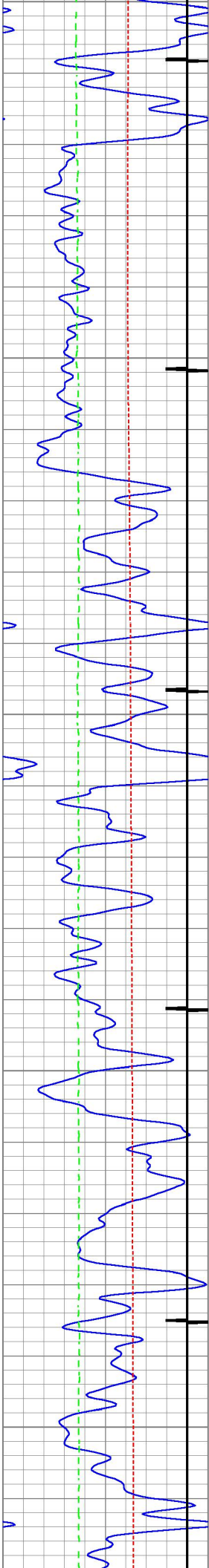


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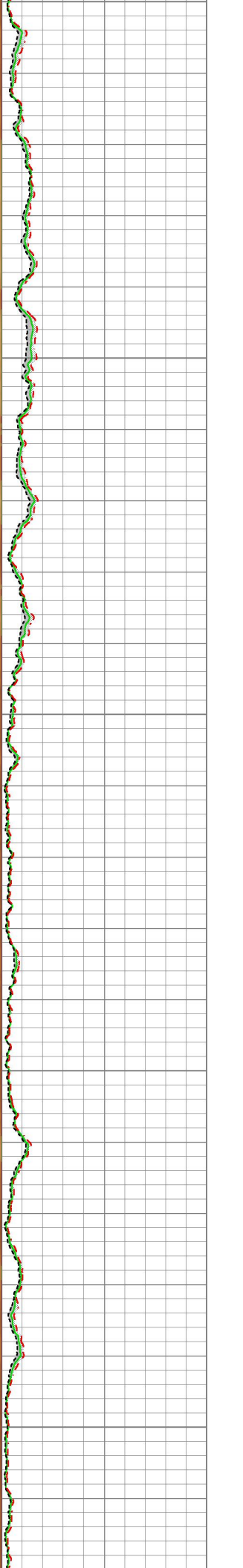
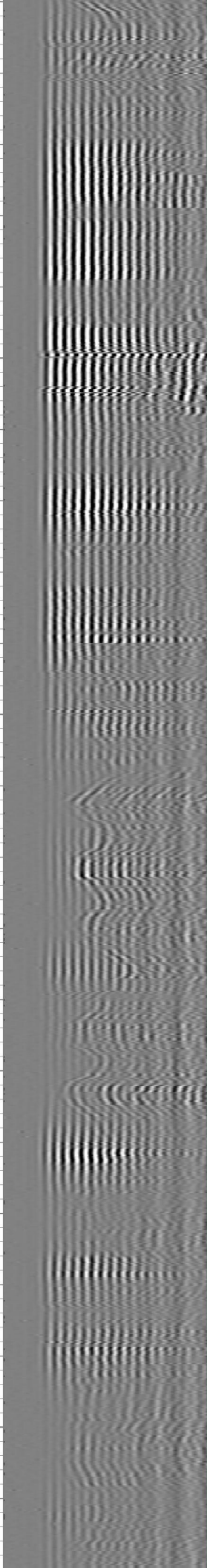
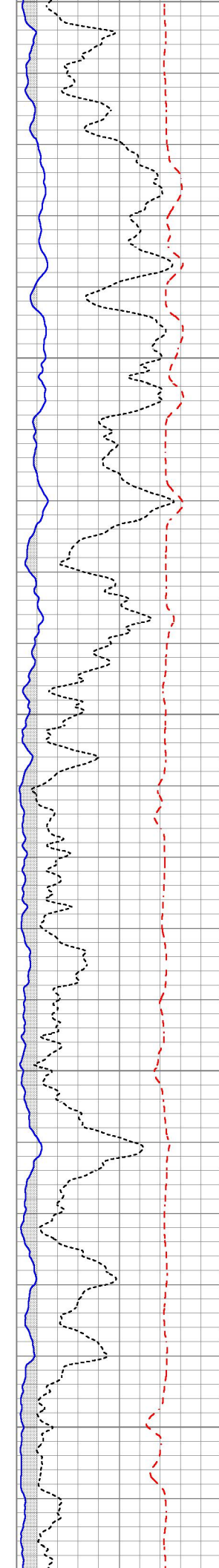
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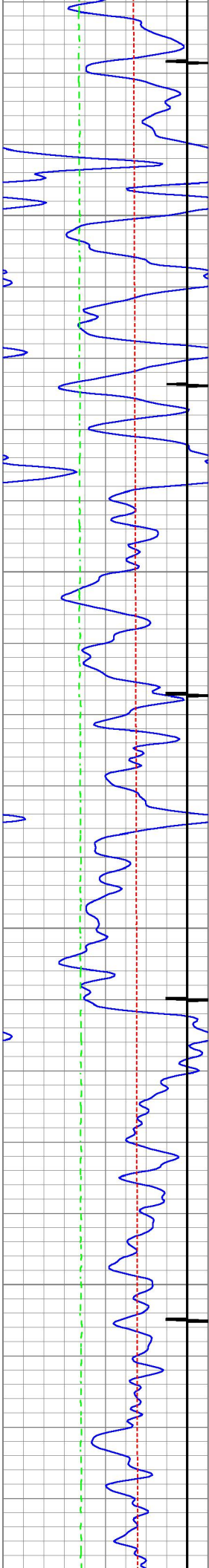
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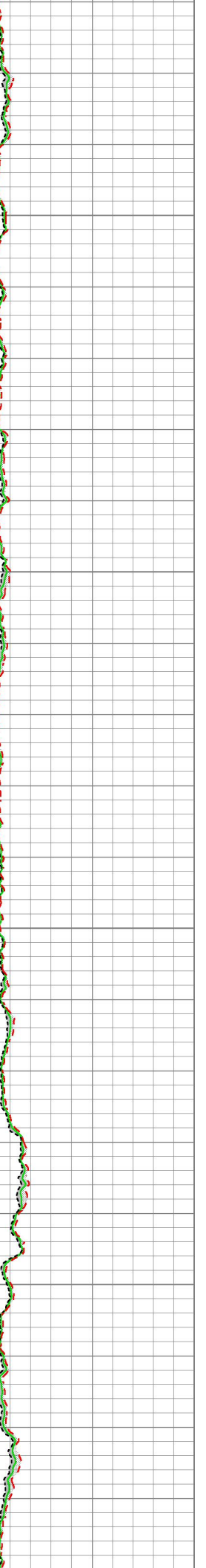
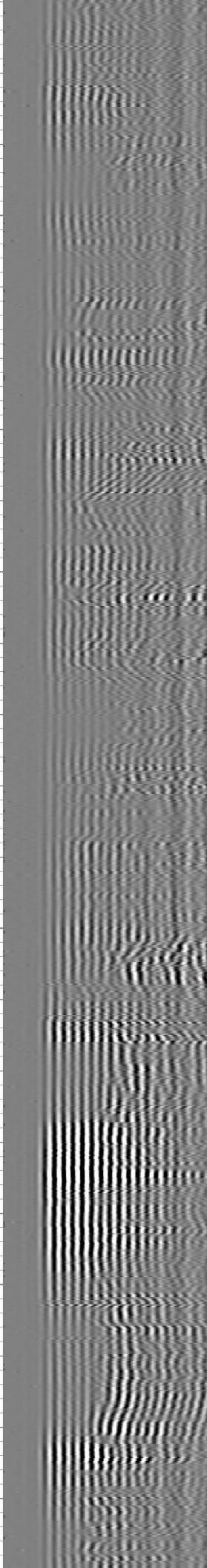
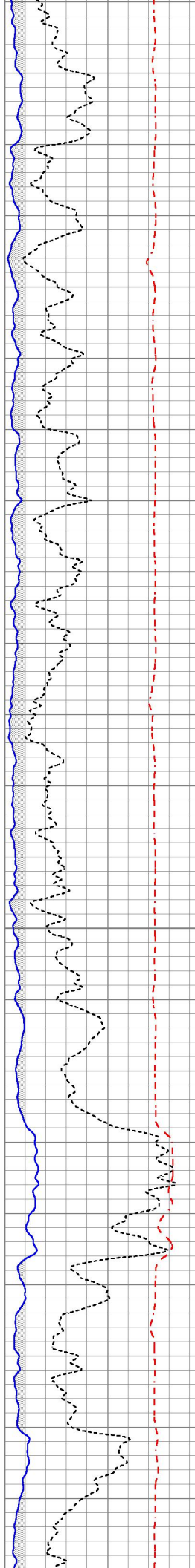
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6300

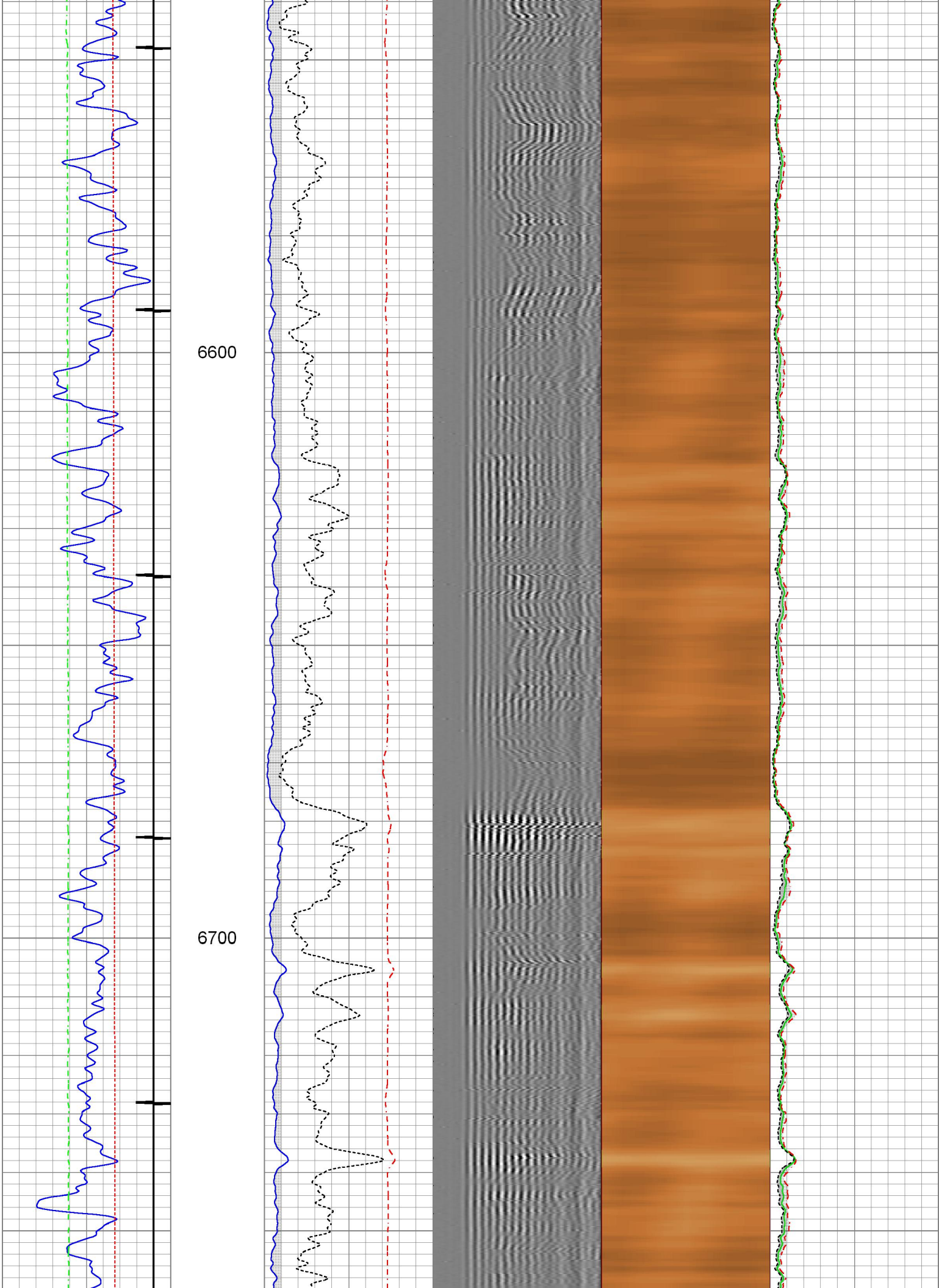


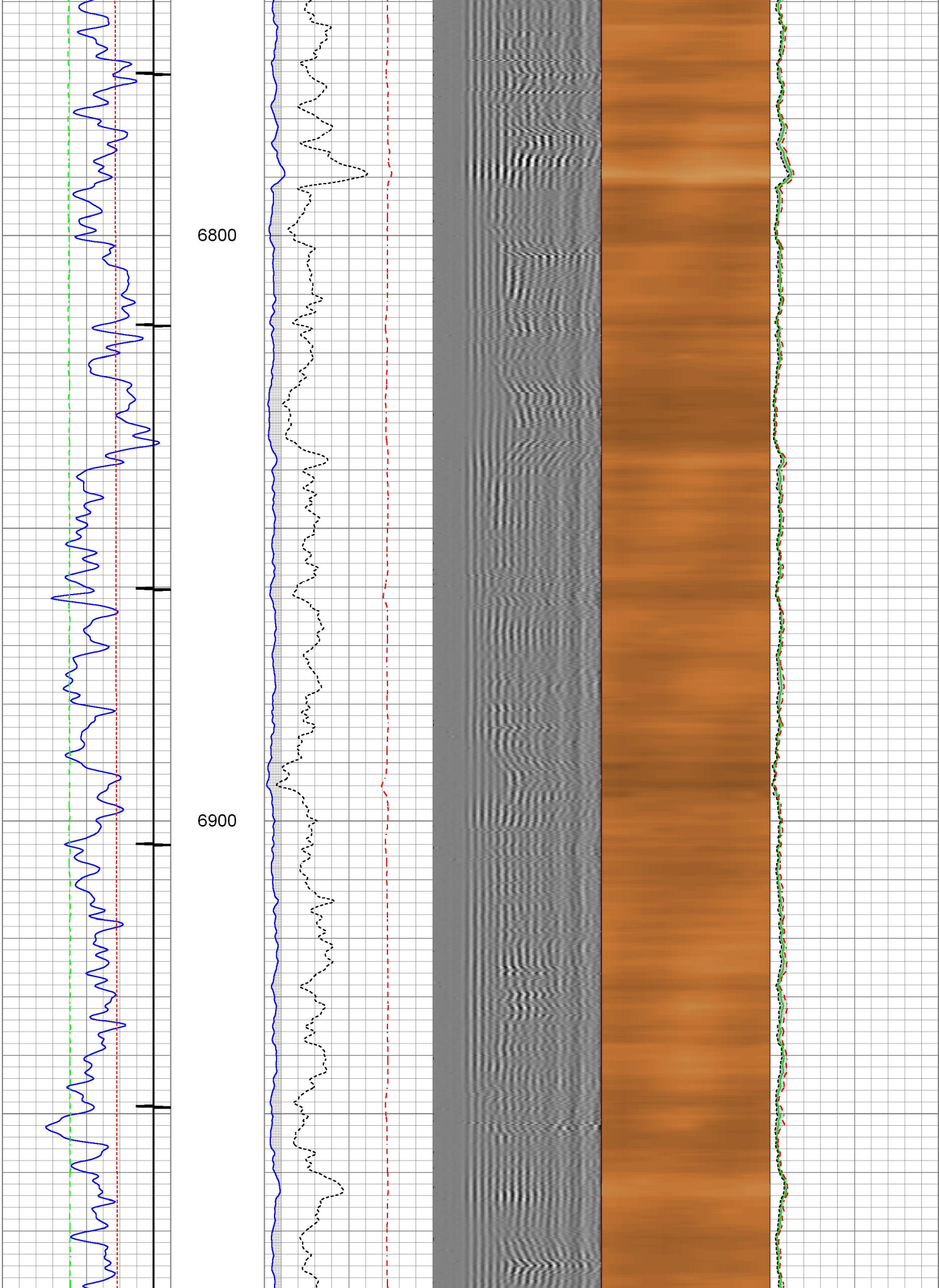


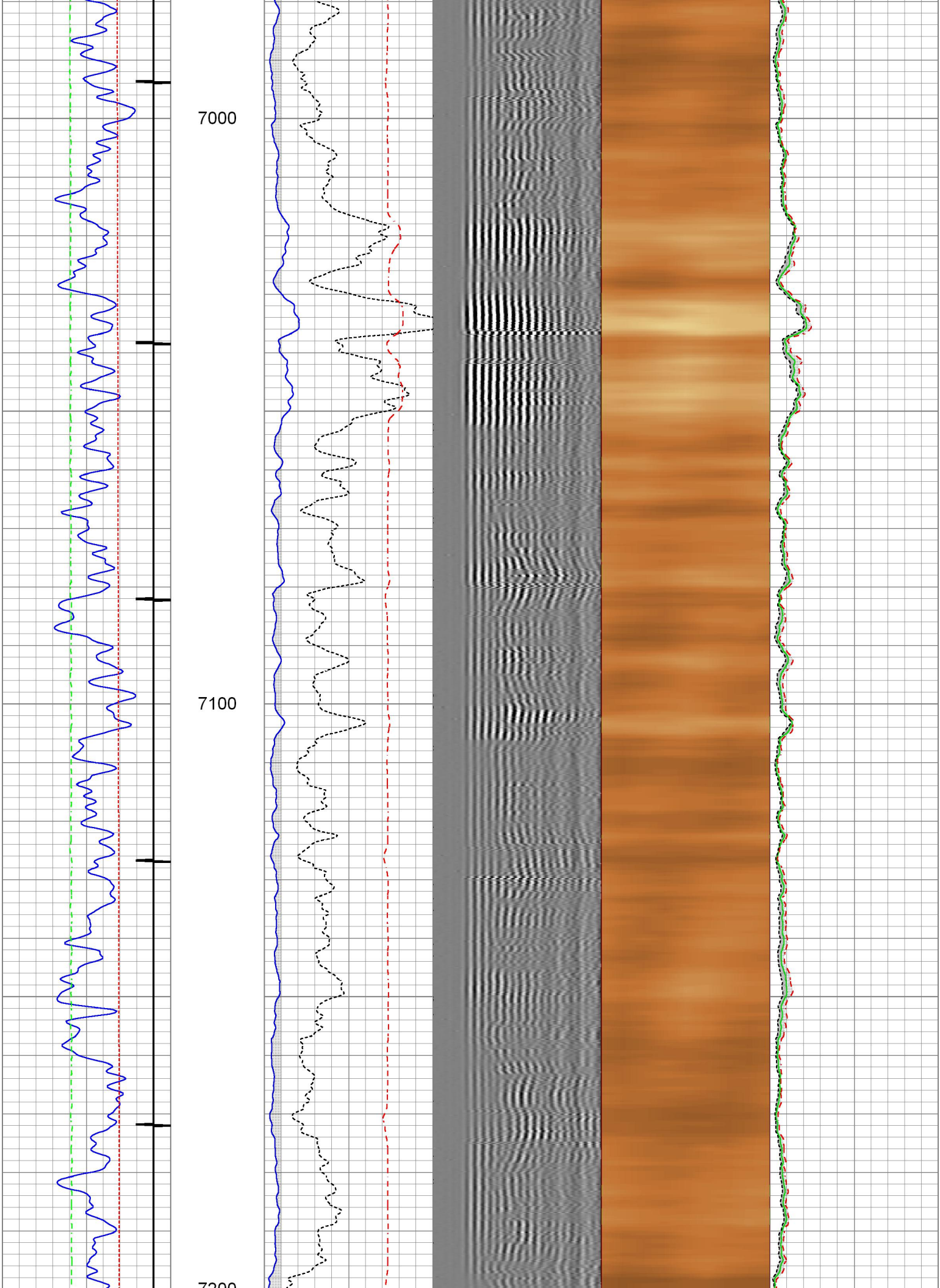
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6500





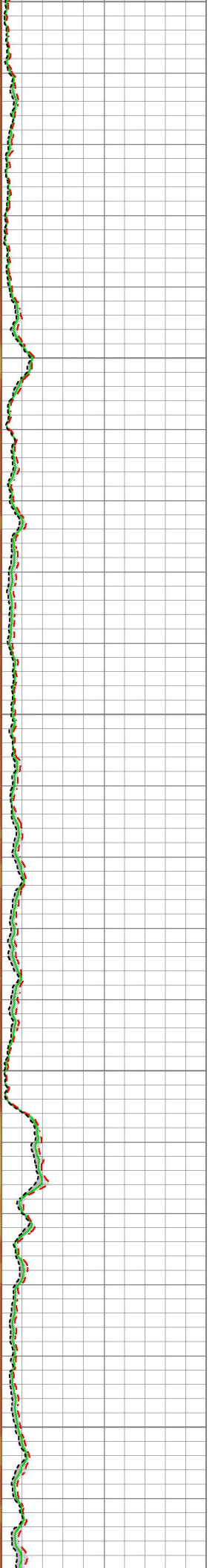
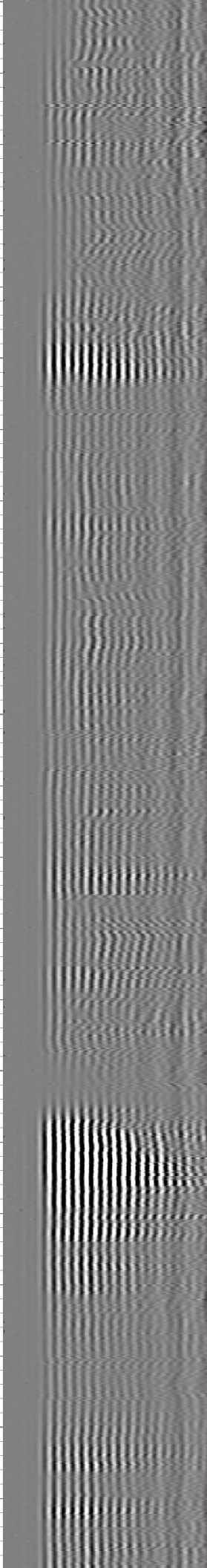
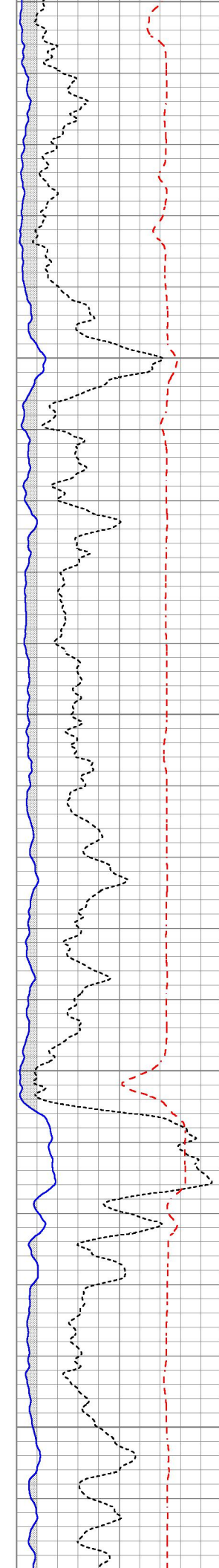
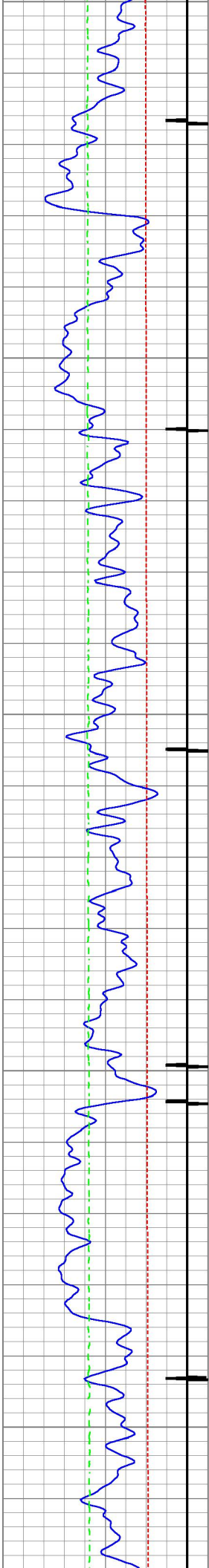


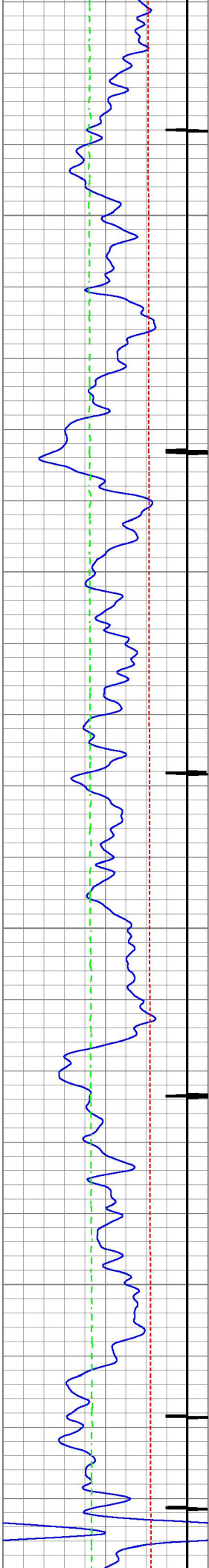


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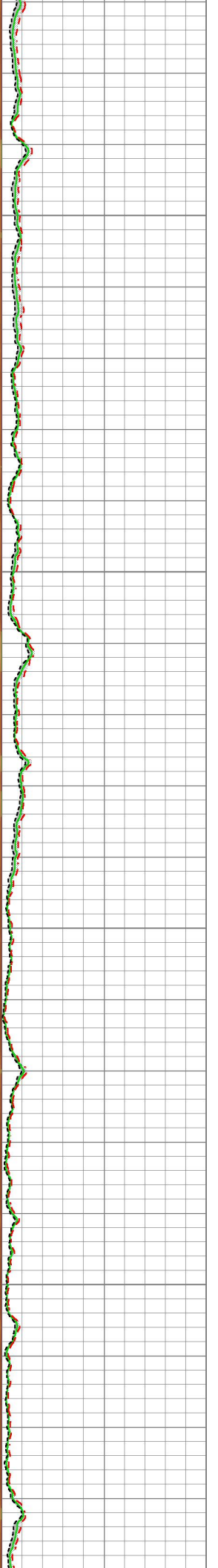
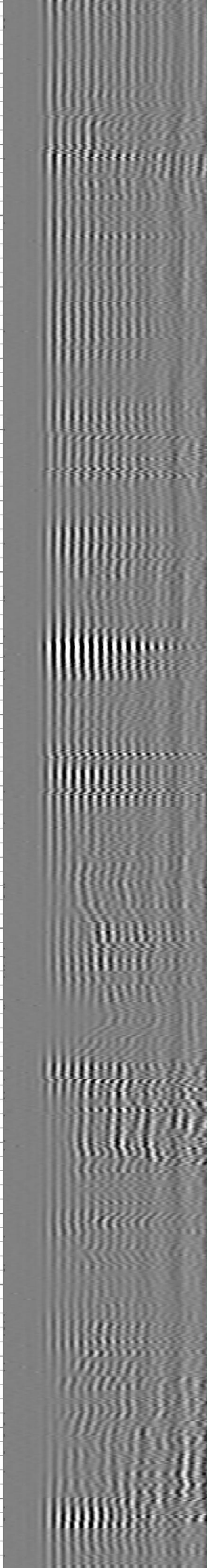
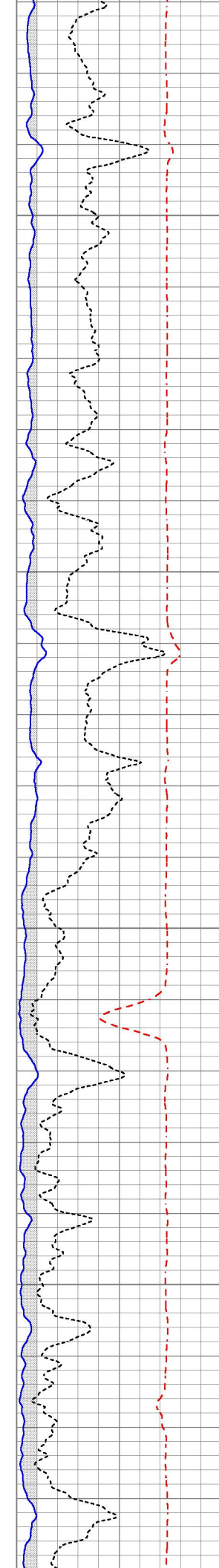
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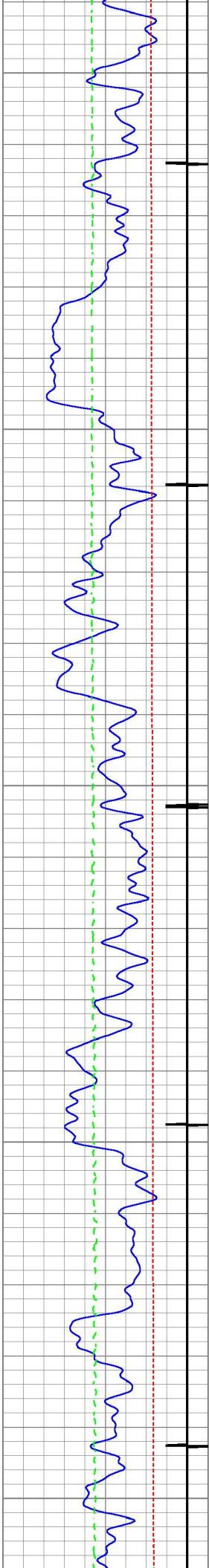




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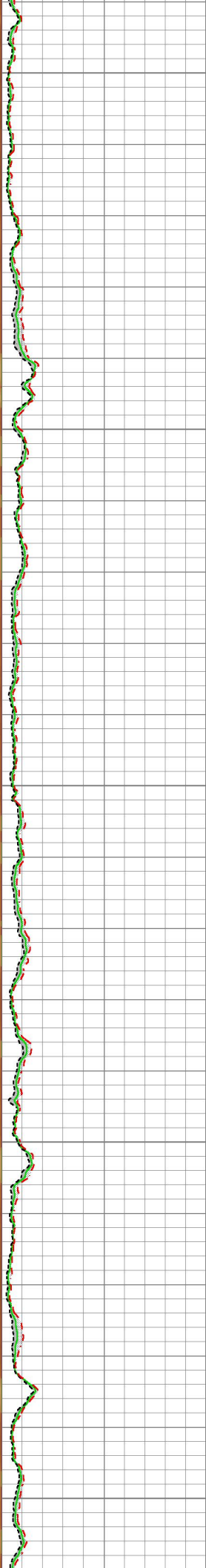
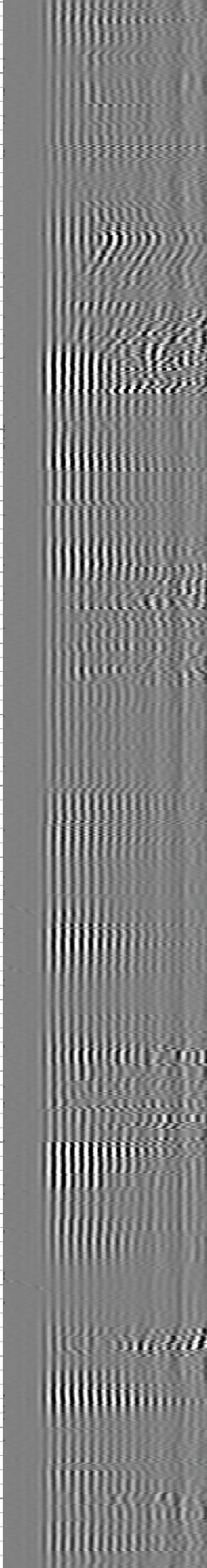
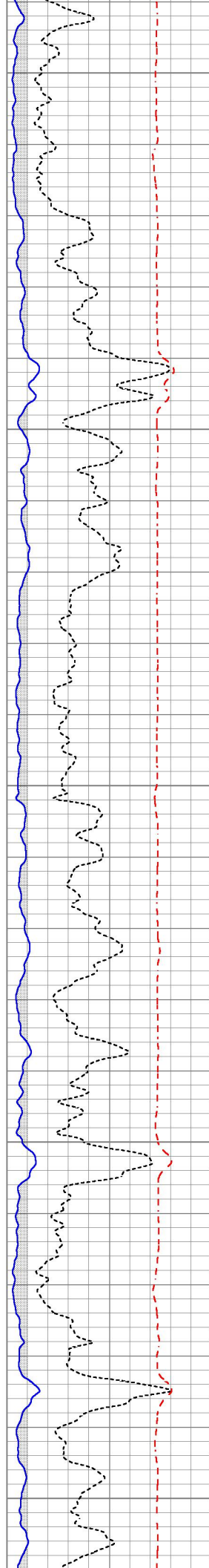
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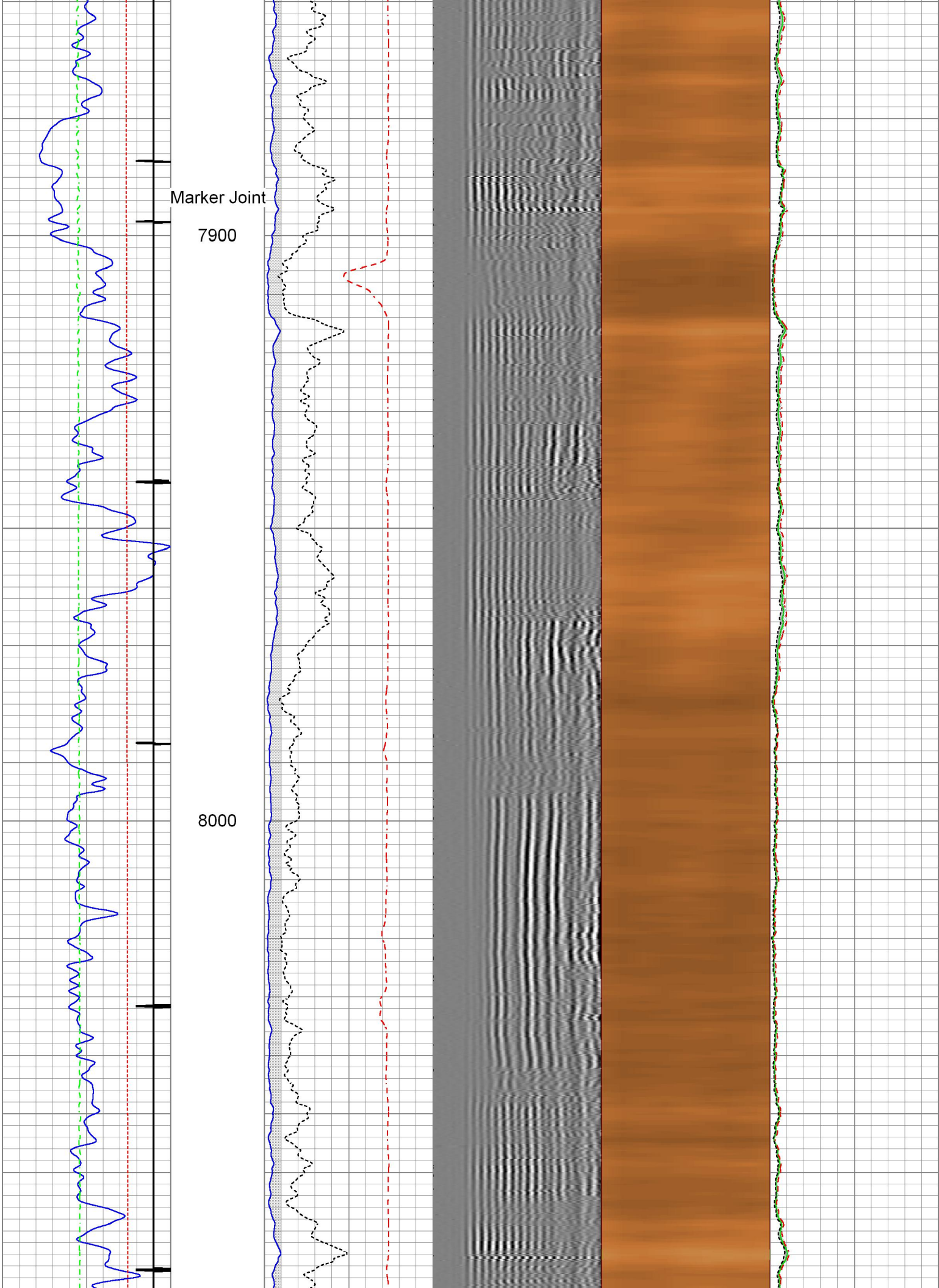


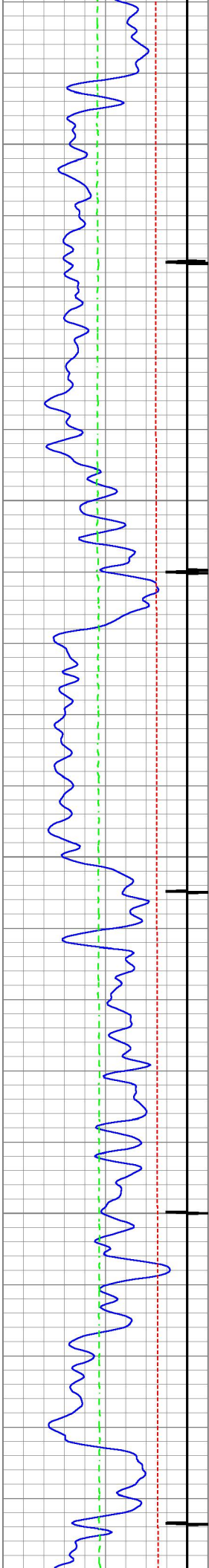


7700

7800



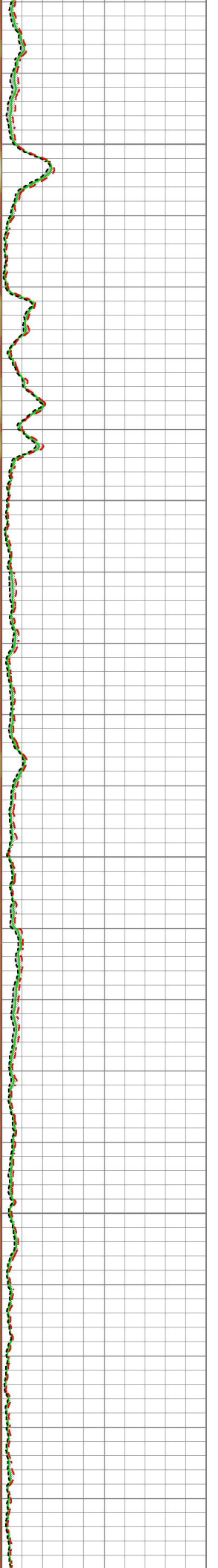
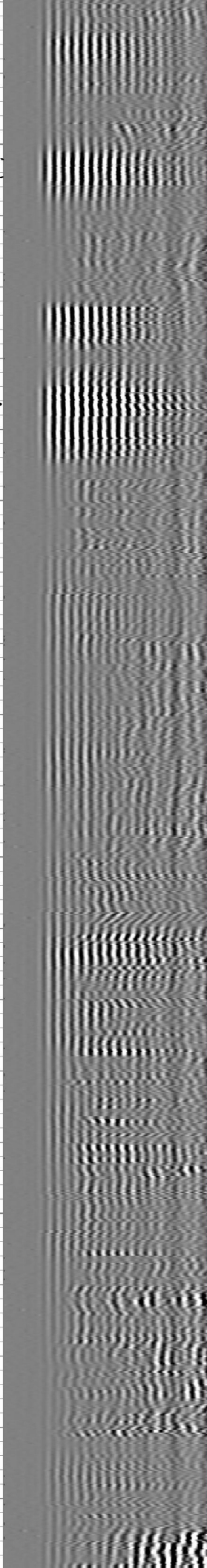
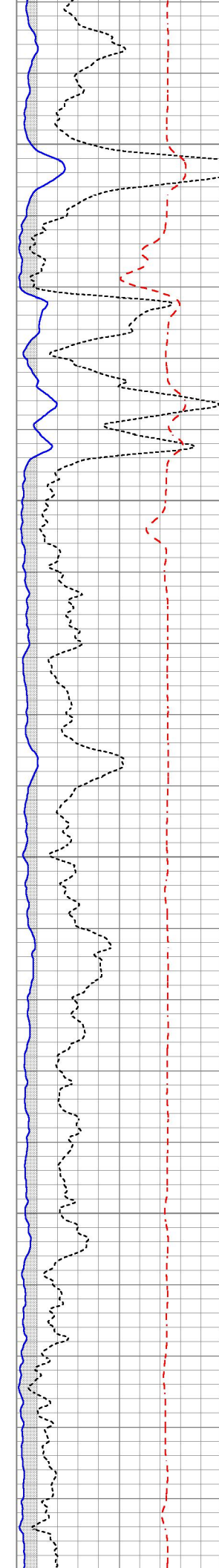


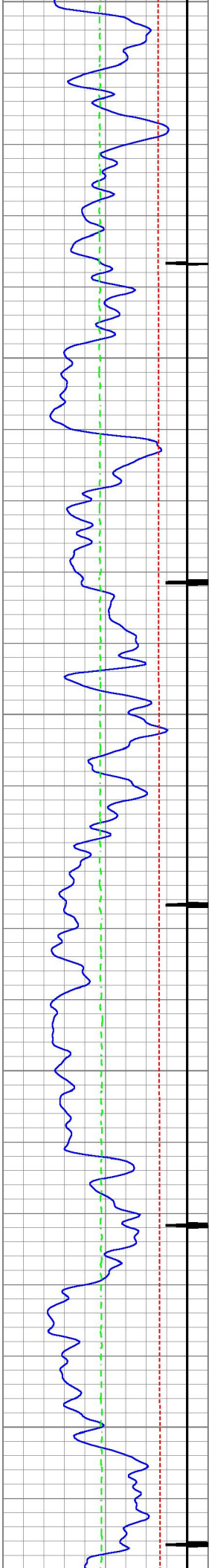


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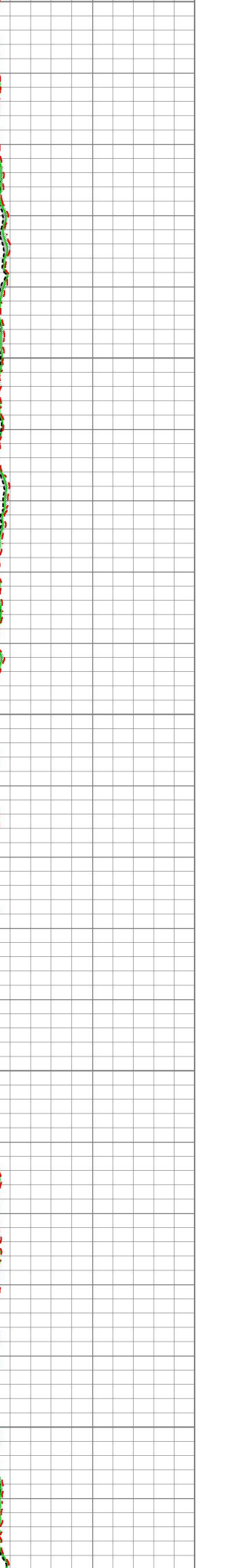
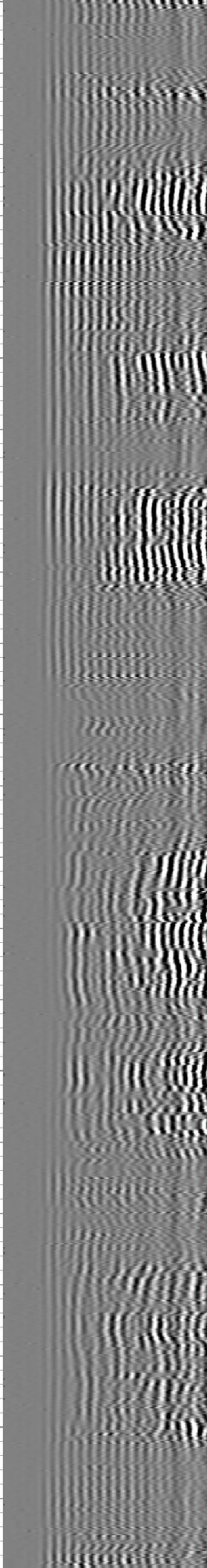
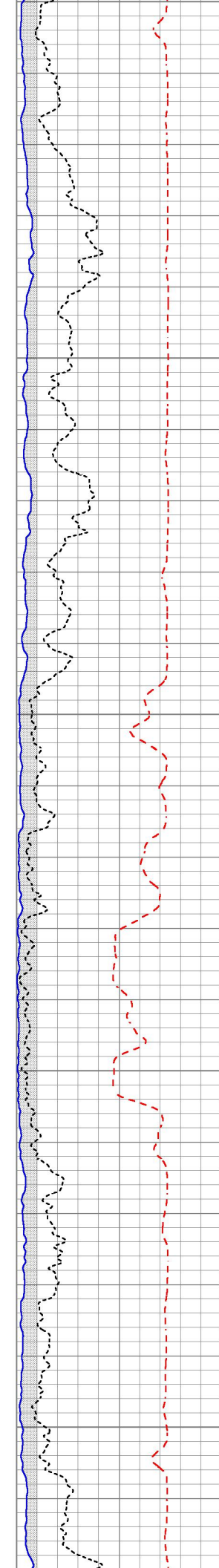
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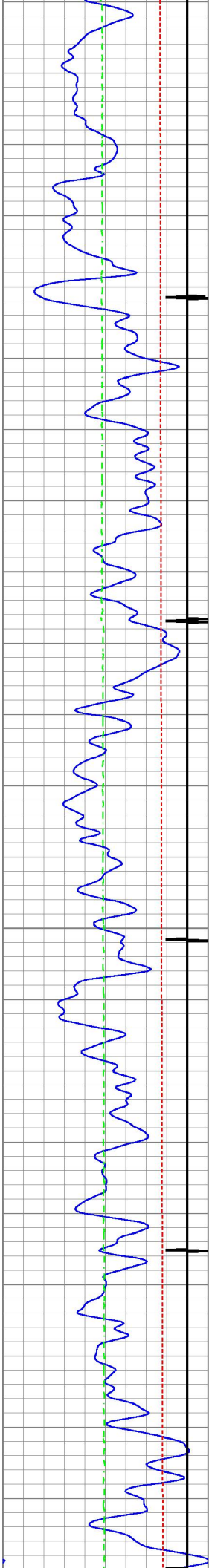
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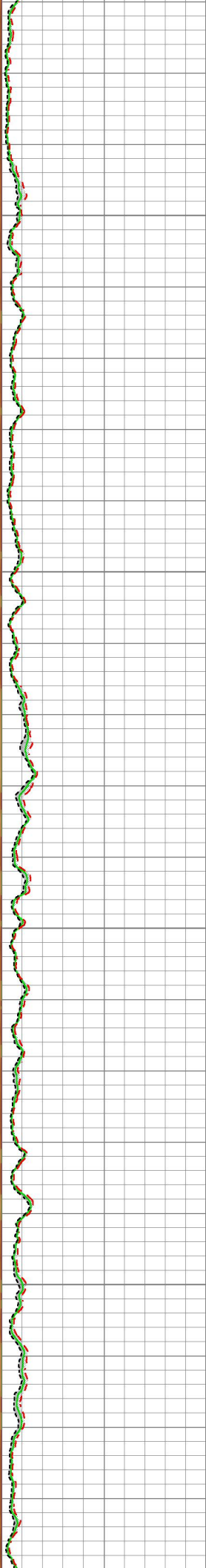
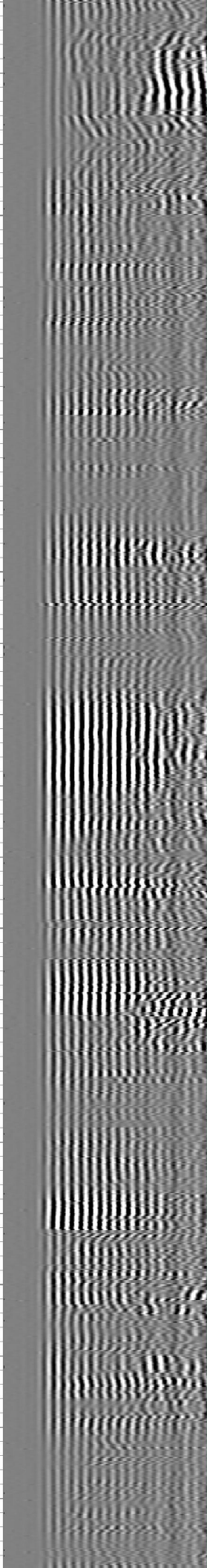
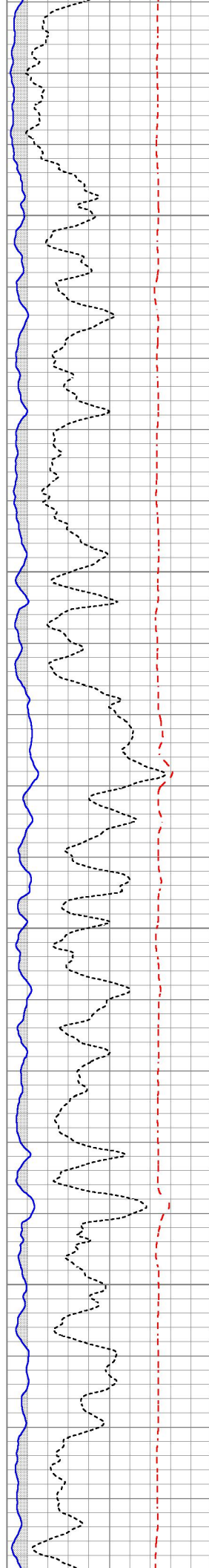
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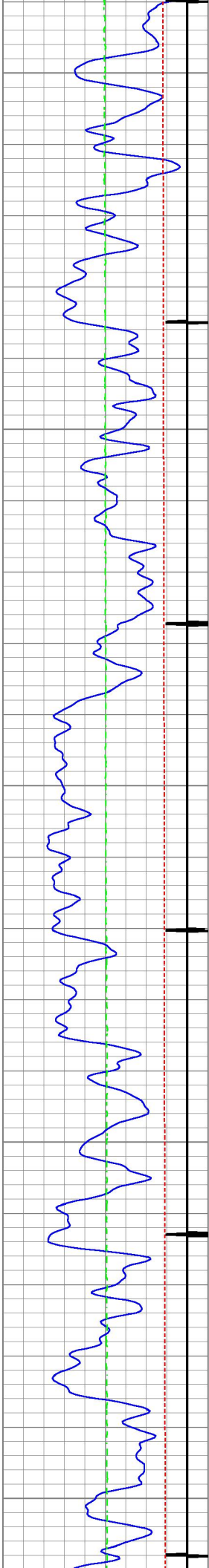




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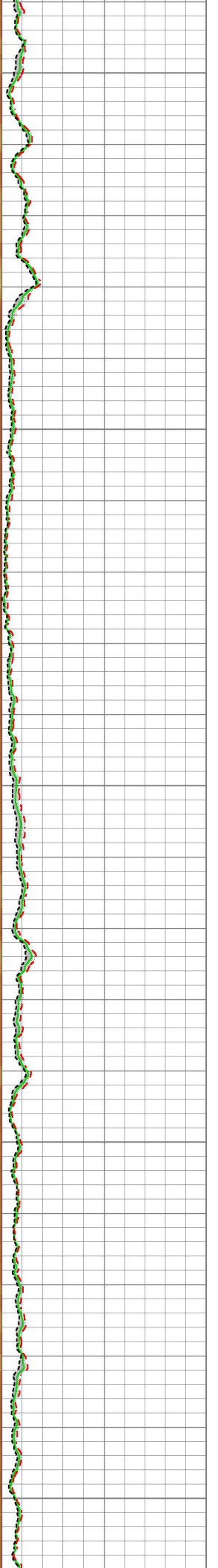
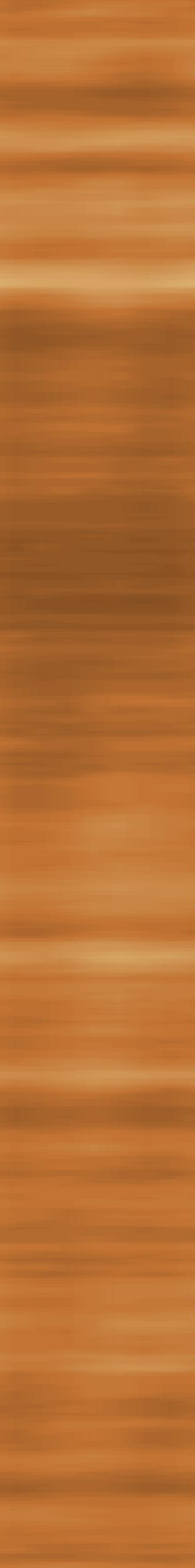
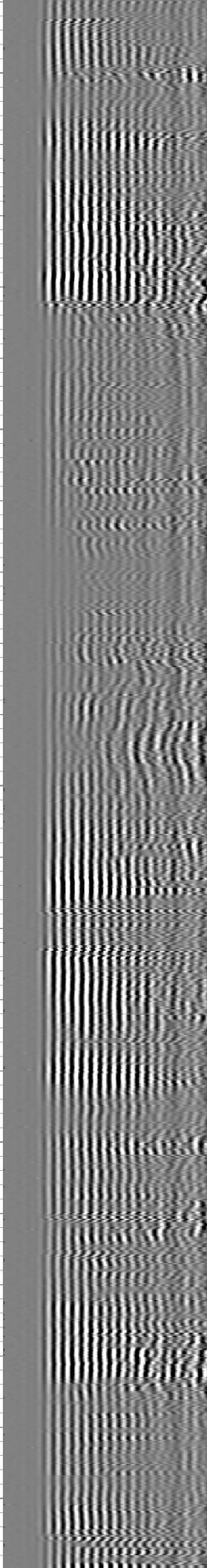
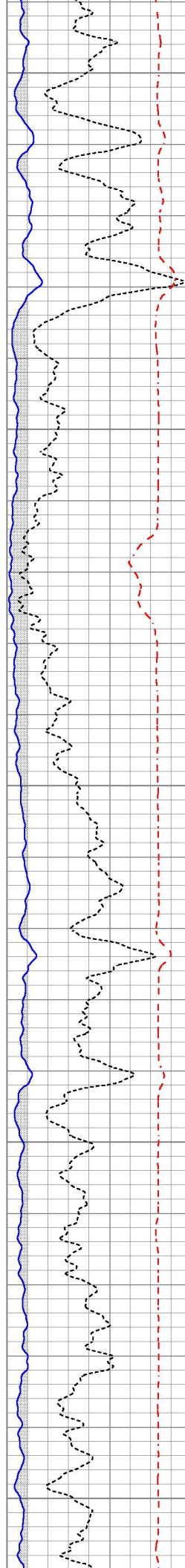
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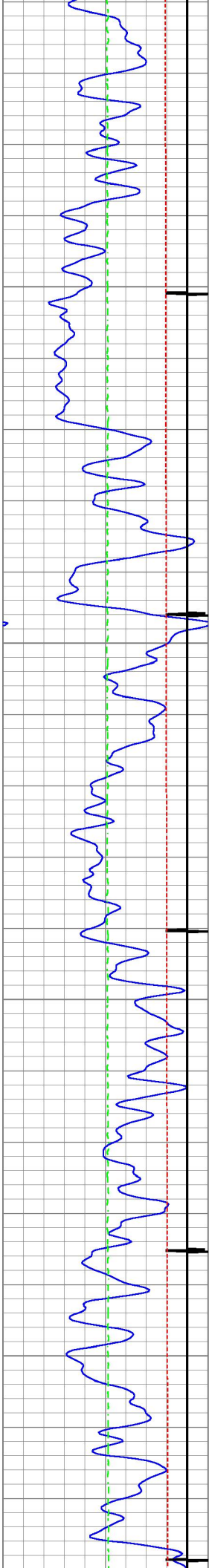




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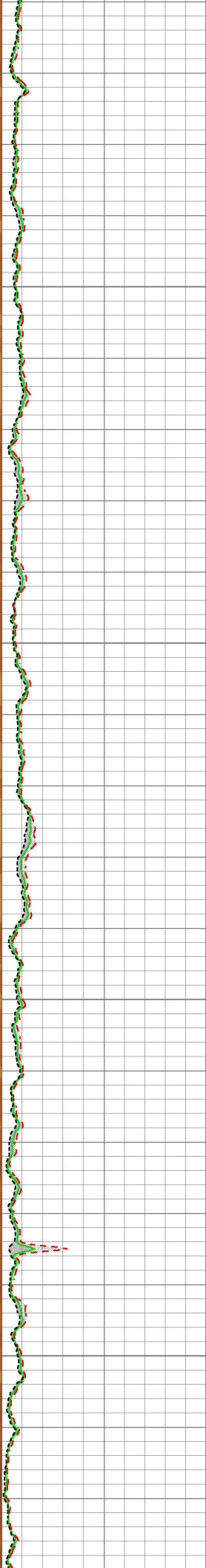
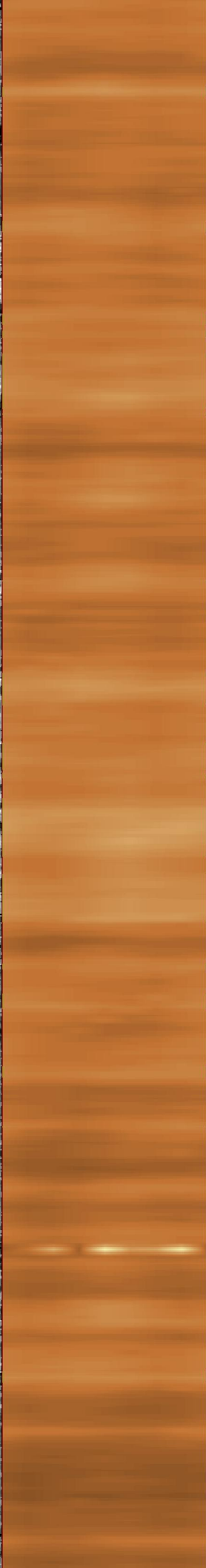
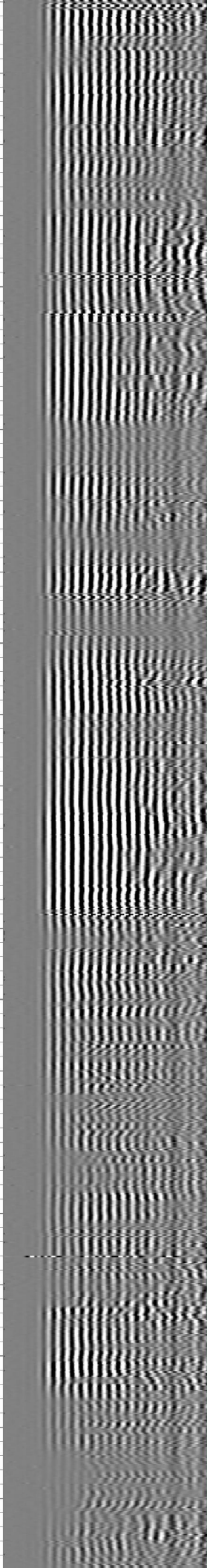
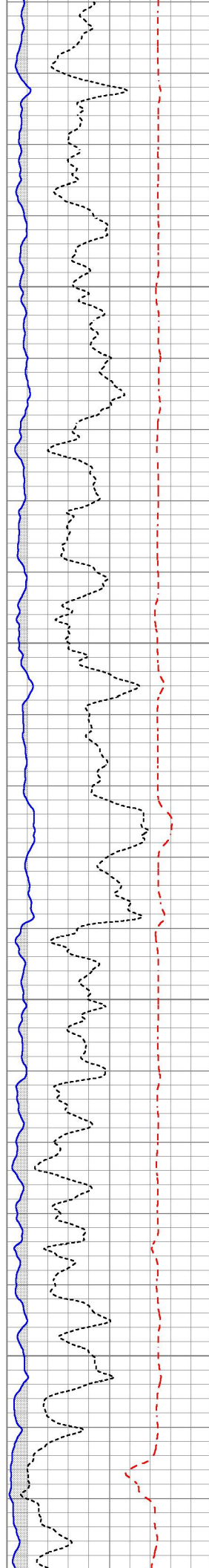
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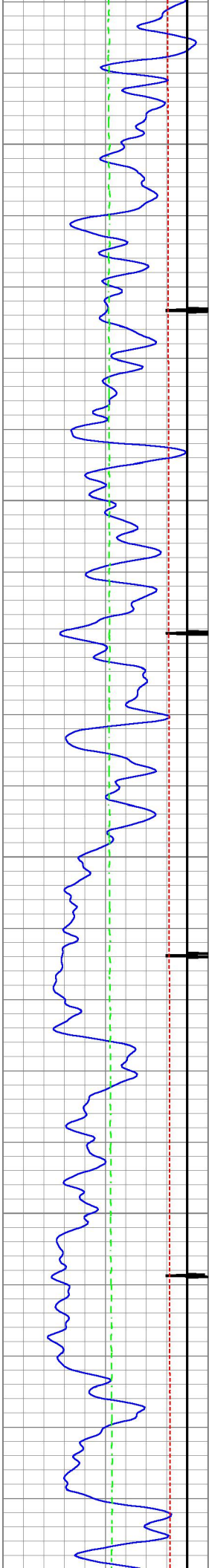




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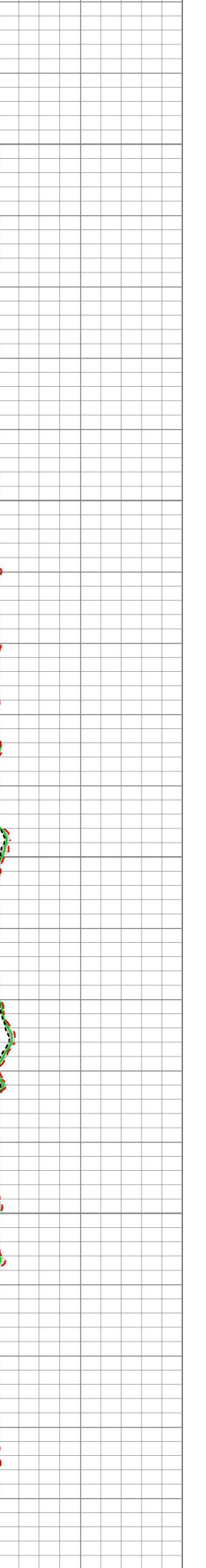
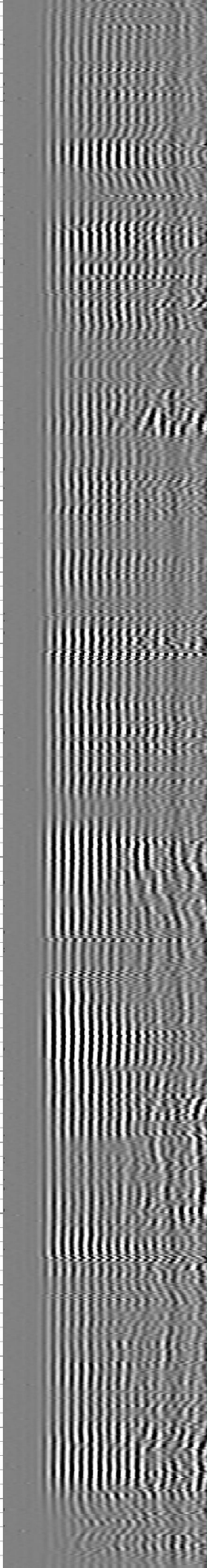
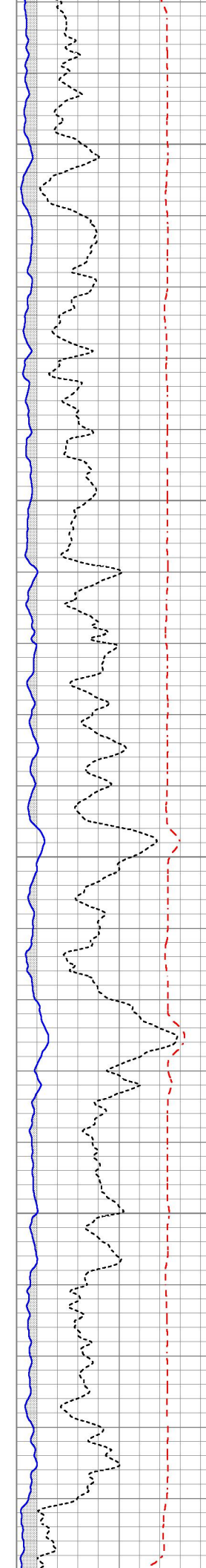




9200

9300

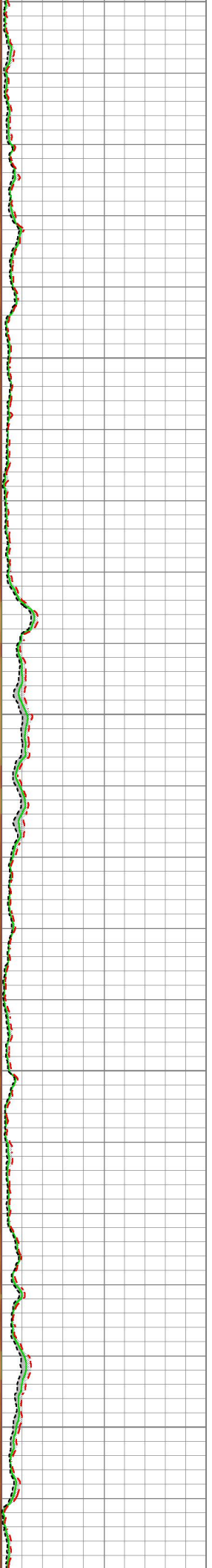
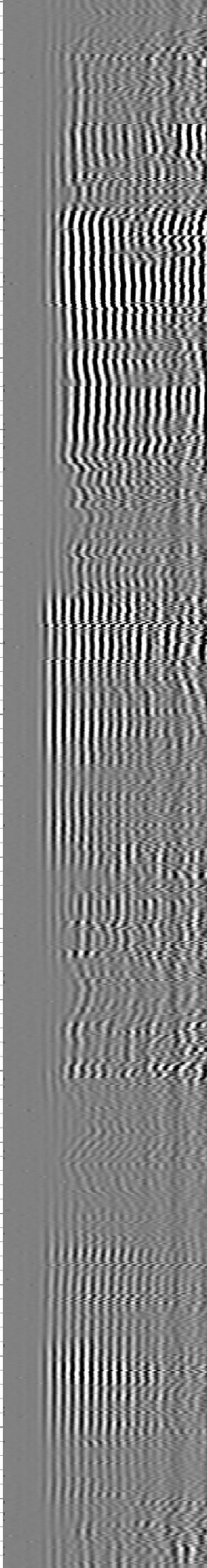
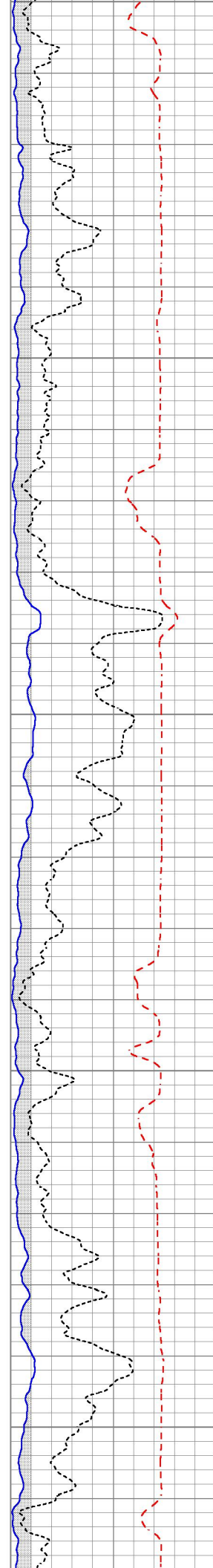
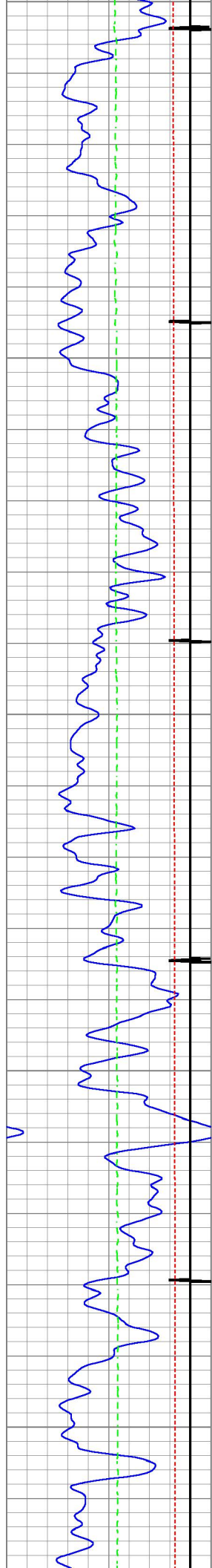
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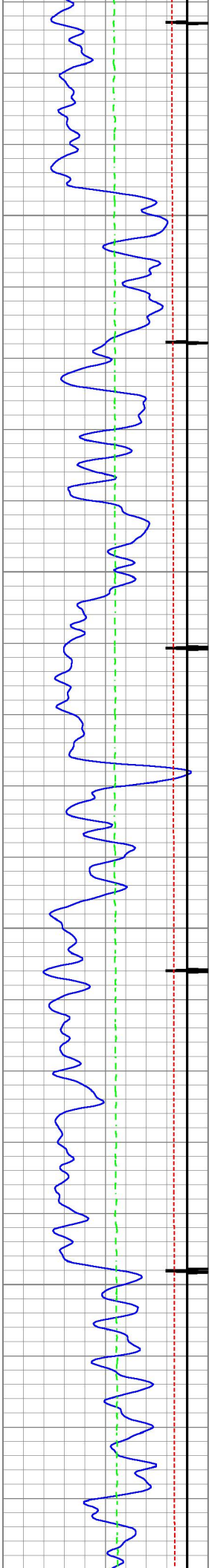


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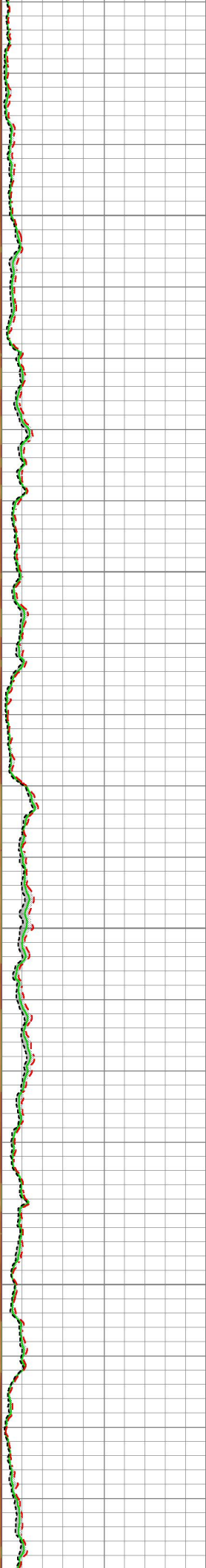
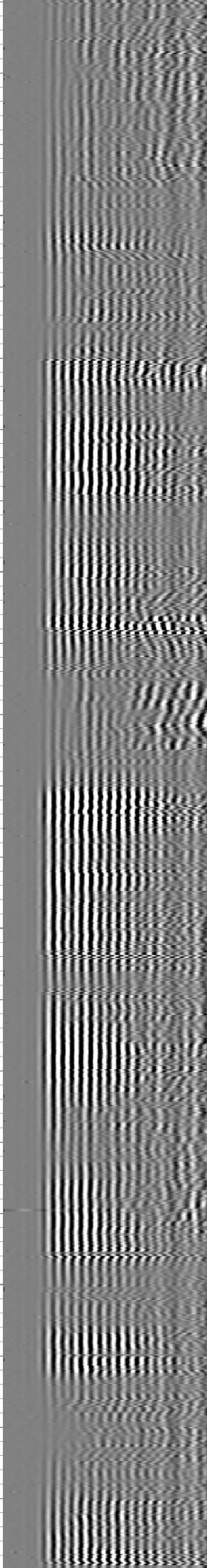
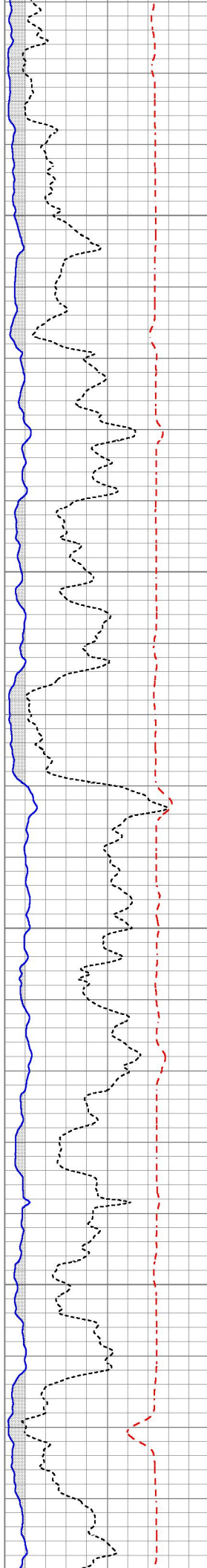
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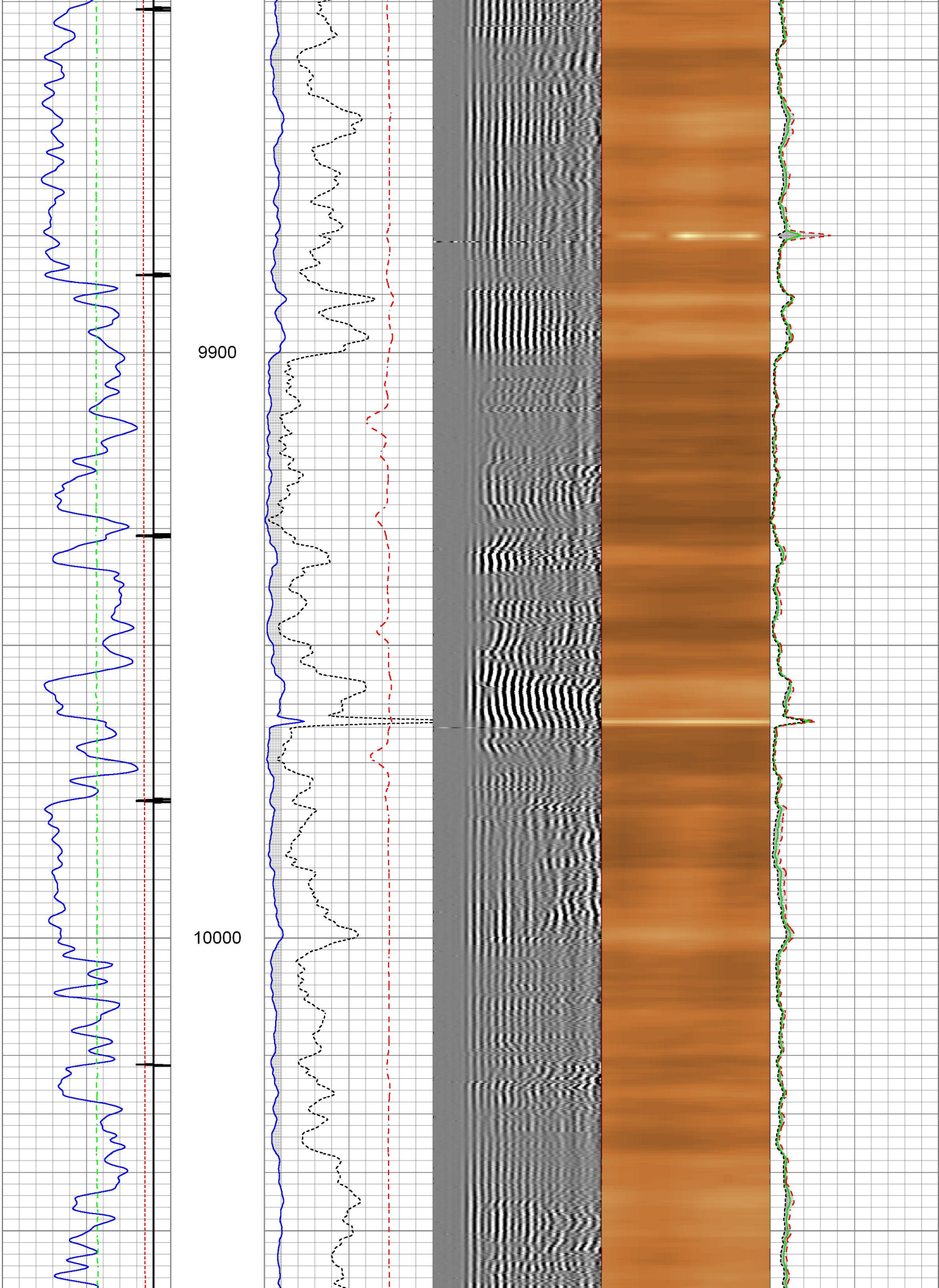


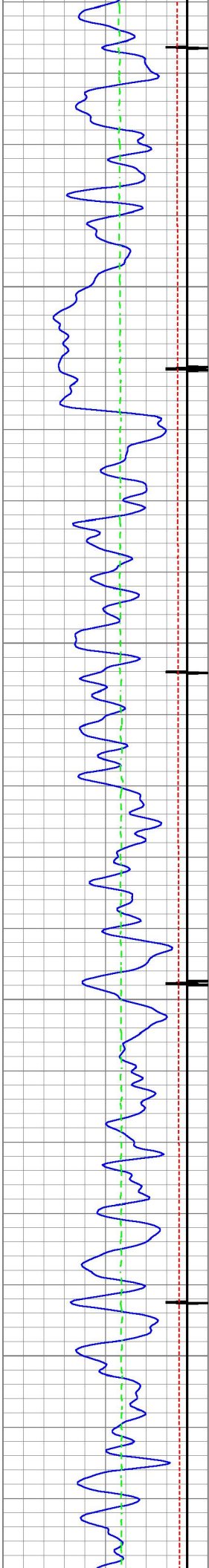


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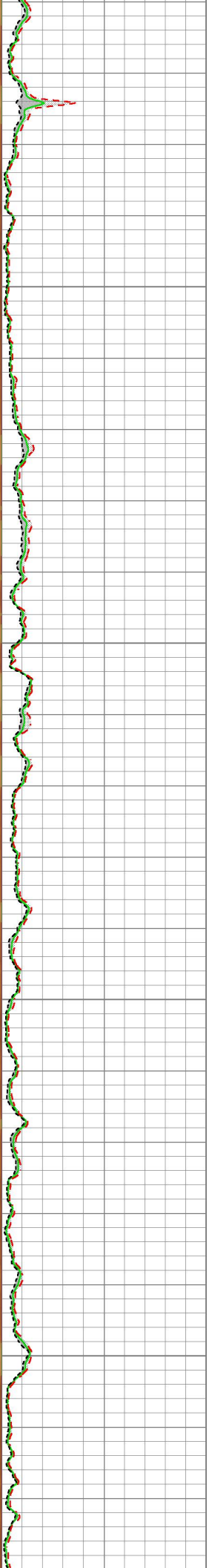
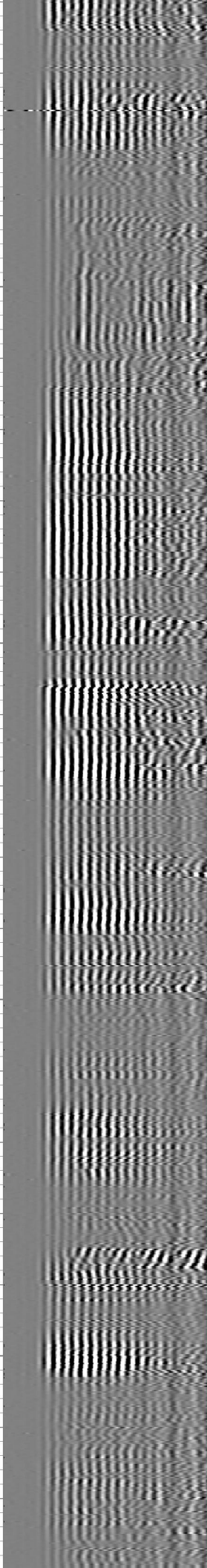
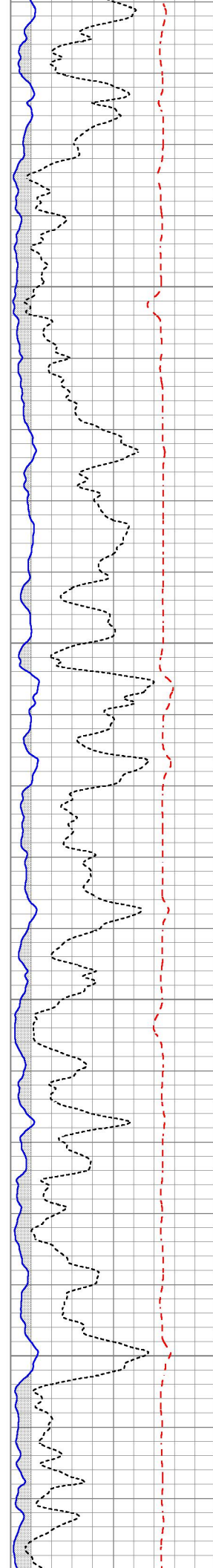






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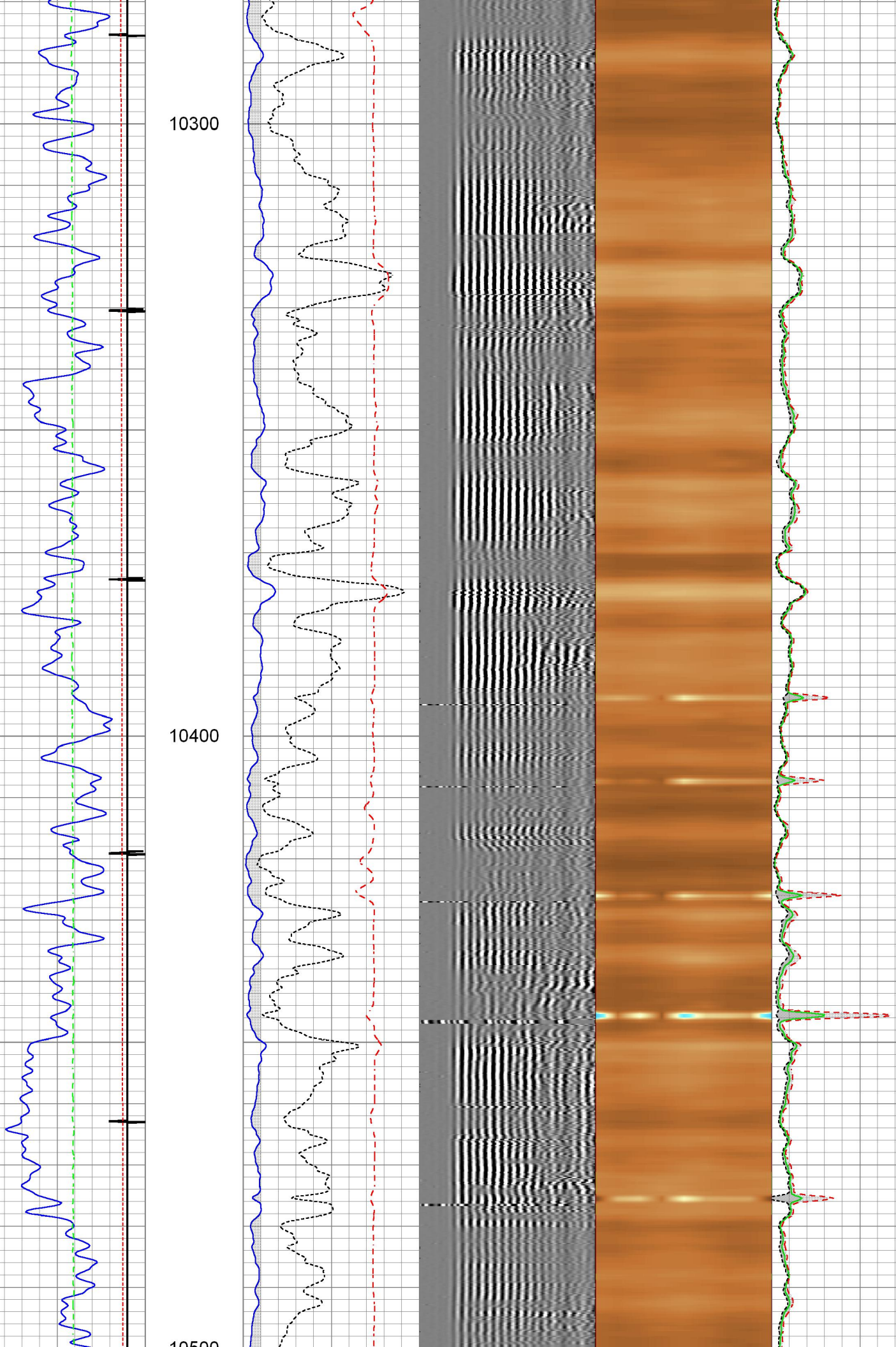
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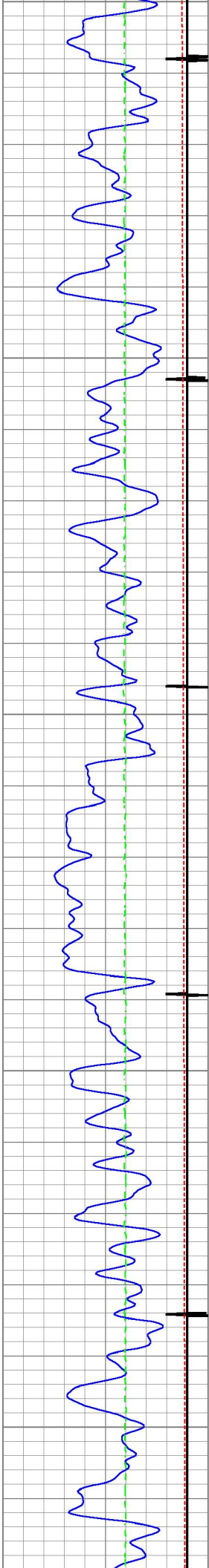


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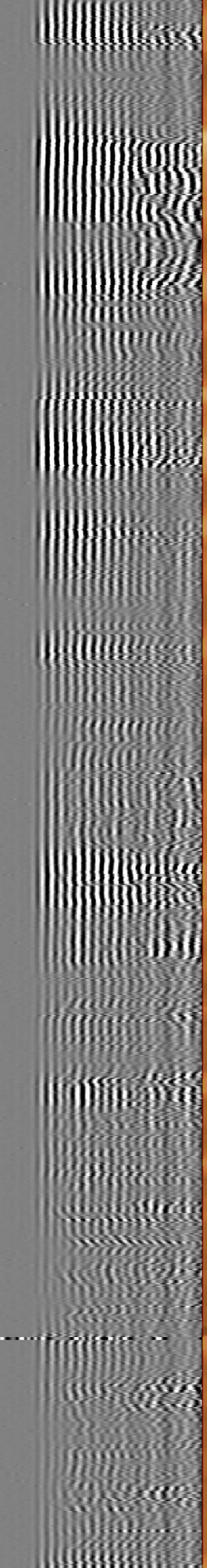
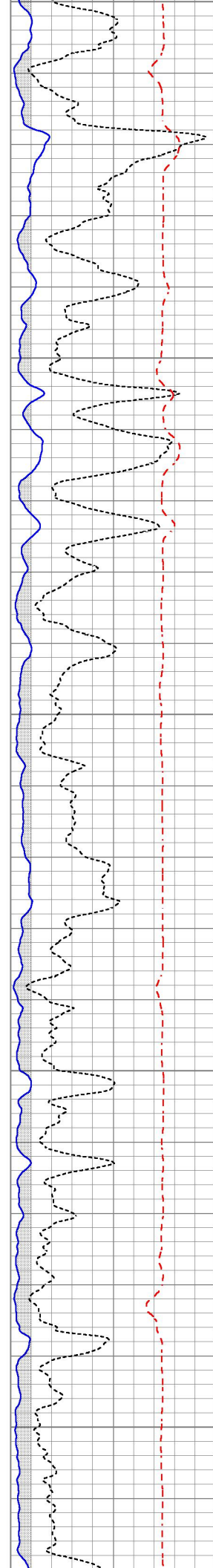
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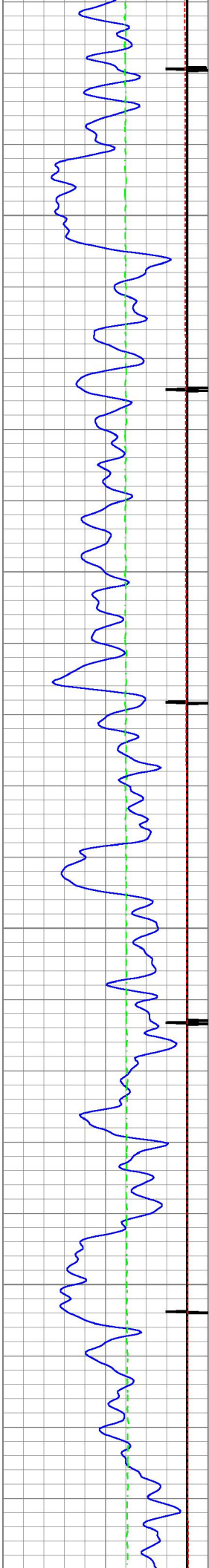
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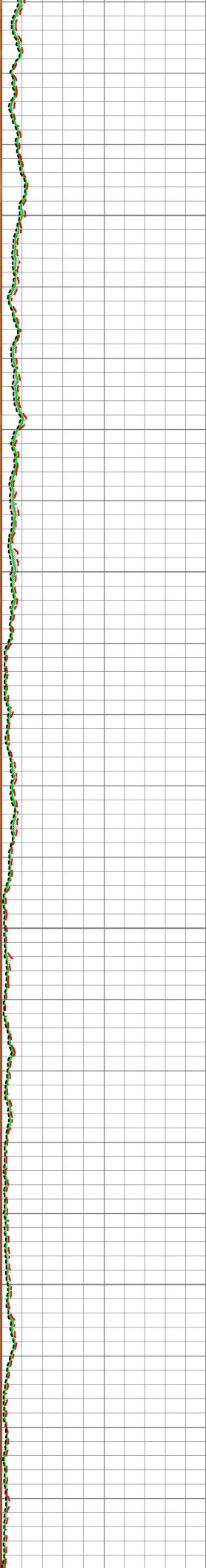
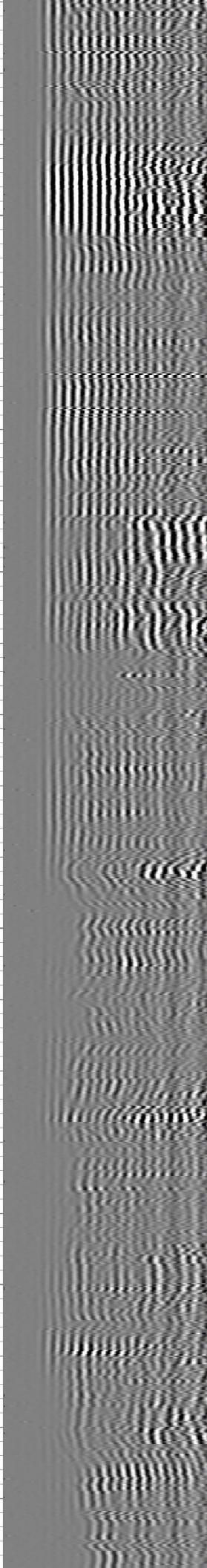
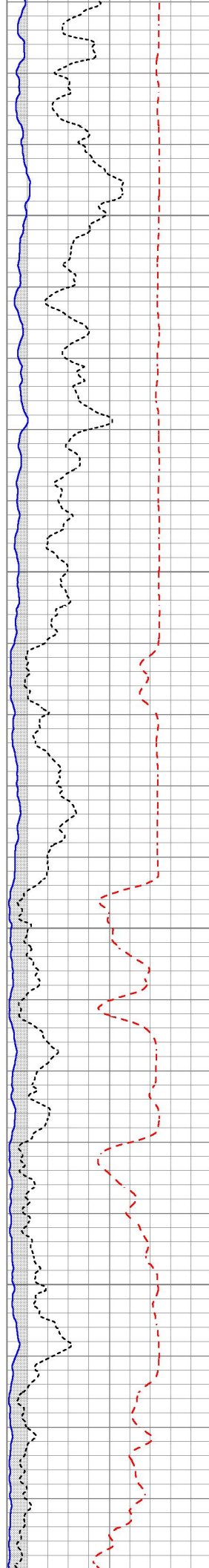
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10600
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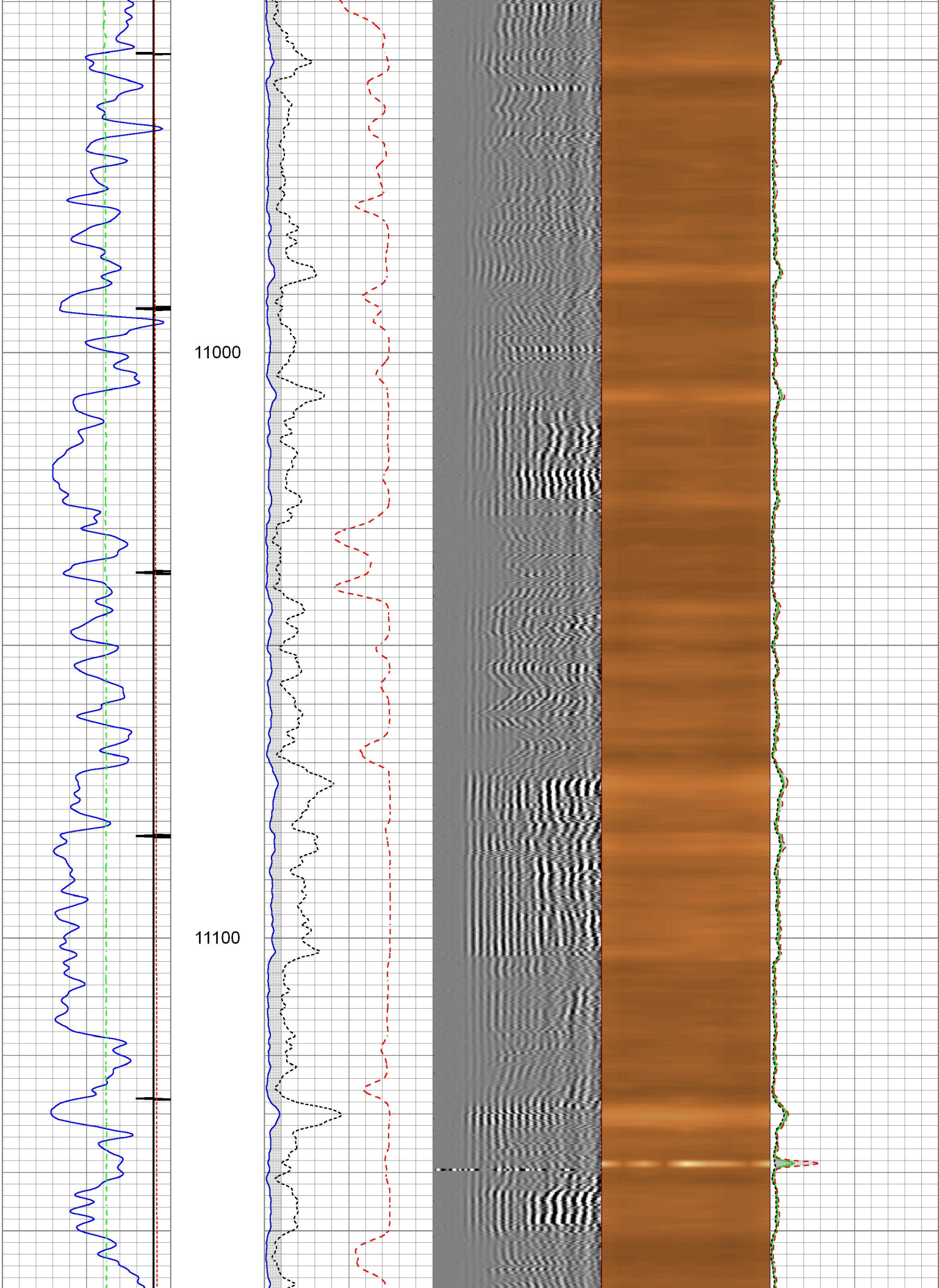


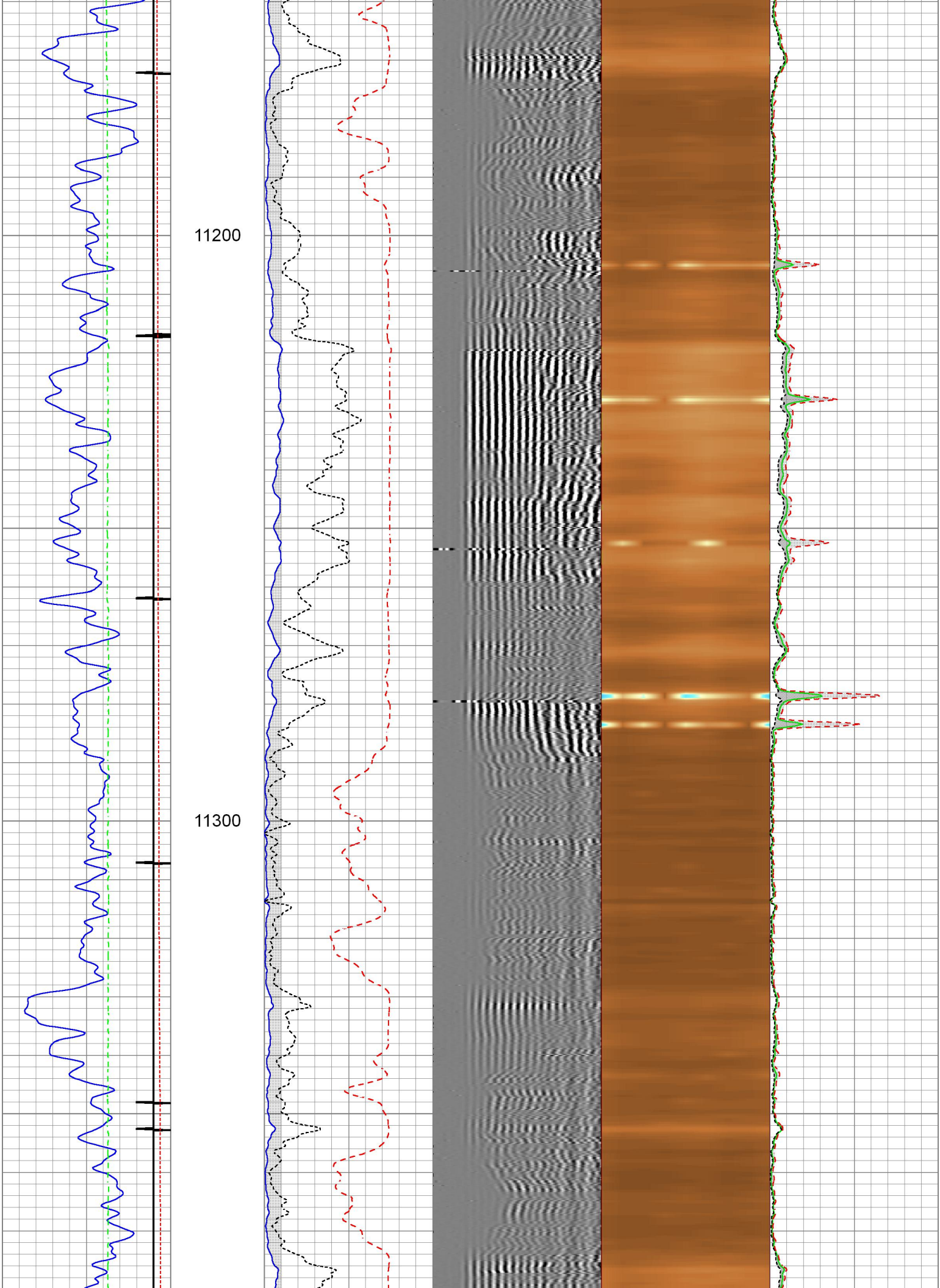


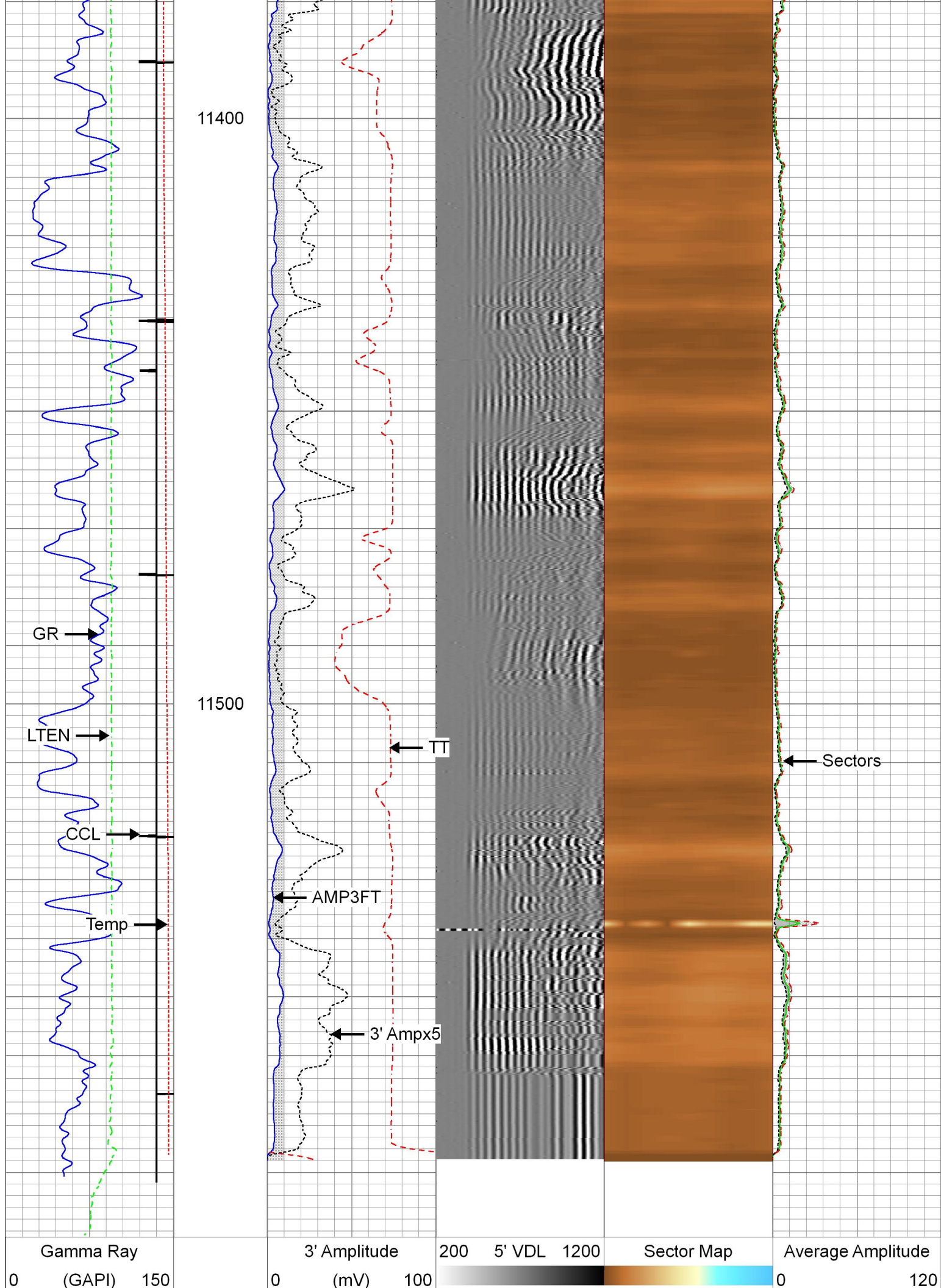
10800

10900









CCL		
Line Tension		
0	(lb)	4000
GCT_Temp		
0	(degF)	300

3' Amplitude x 5		
0	(mV)	20
3' Travel Time		
650	(usec)	150

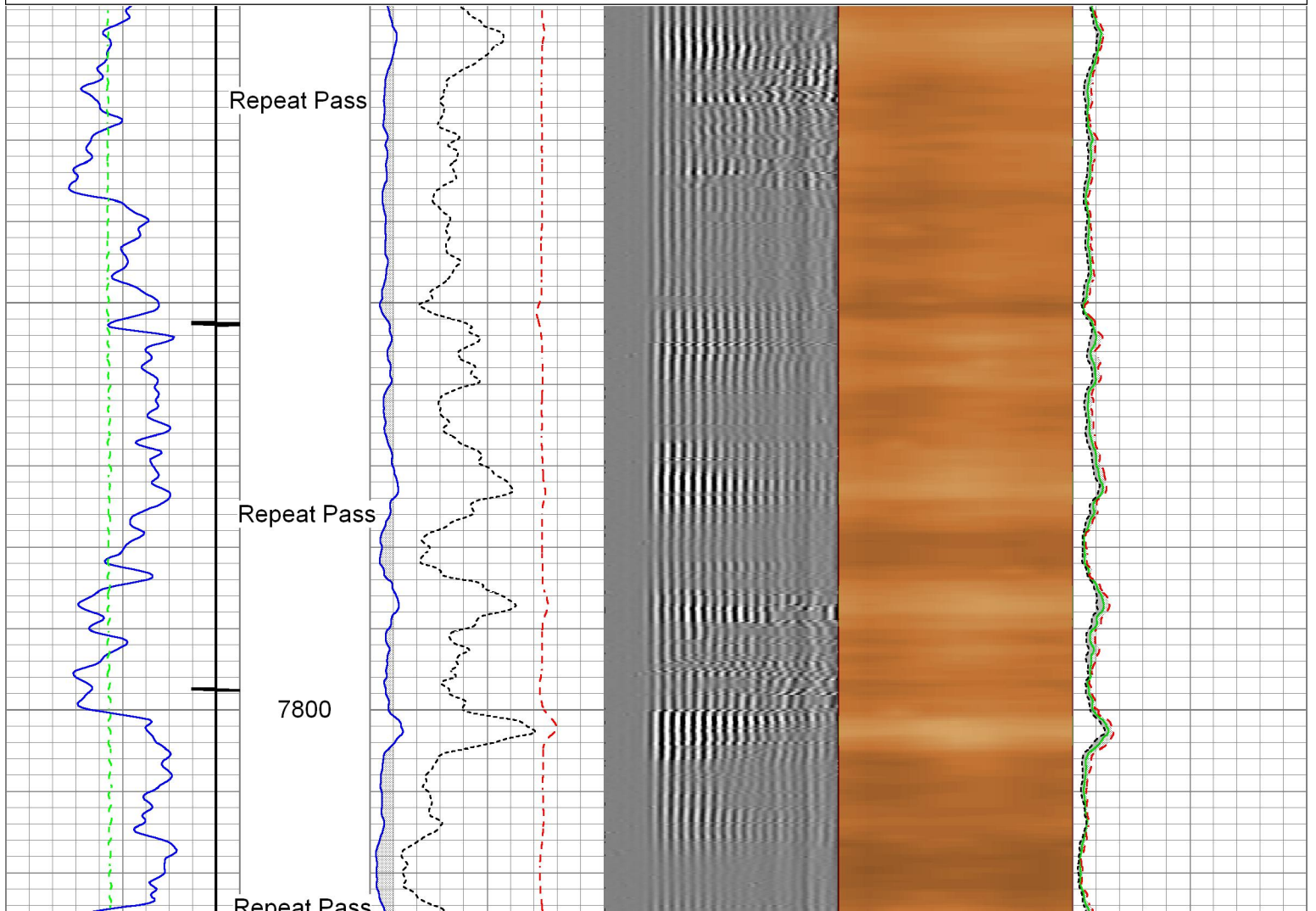
Mimimum Amplitude	
0	120
Maximum Amplitude	
0	120

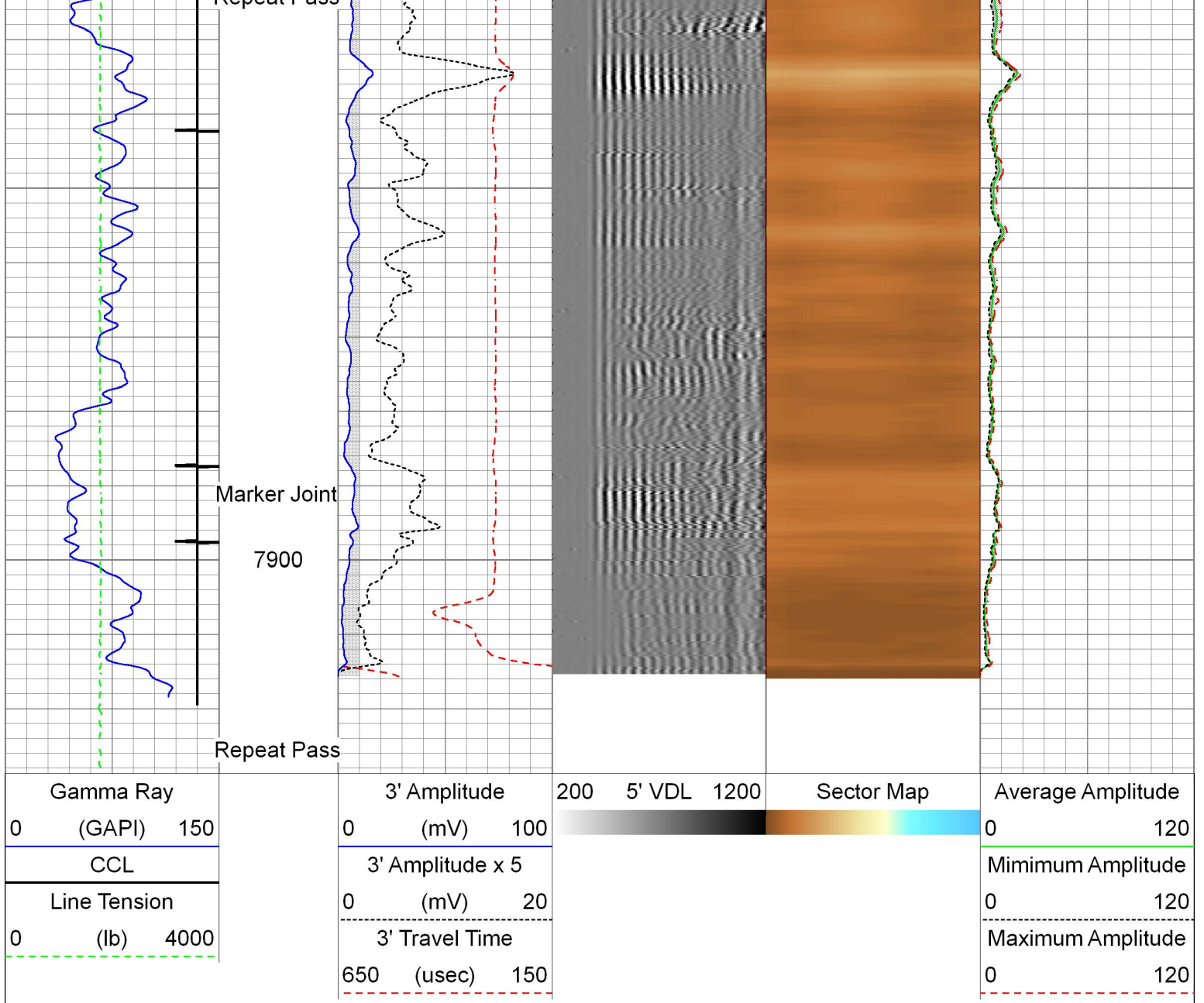


Repeat Pass 5" = 100'

Database File	caerus_23c-35_rcbl_cnl_4-6-22.db
Dataset Pathname	repeatpass
Presentation Format	twg_radii_caerus_color
Dataset Creation	Wed Apr 06 08:09:00 2022
Charted by	Depth in Feet scaled 1:240

Gamma Ray	3' Amplitude	200	5' VDL	1200	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100					0 120
CCL	3' Amplitude x 5					Mimimum Amplitude
Line Tension	0 (mV) 20					0 120
0 (lb) 4000	3' Travel Time					Maximum Amplitude
	650 (usec) 150					0 120





Calibration Report

Database File caerus_23c-35_rcbl_cnl_4-6-22.db
 Dataset Pathname mainpass
 Dataset Creation Wed Apr 06 08:33:04 2022

Compensated Neutron Calibration Report

Model: CNT - 275Dig
 Serial Number: FW1409-35

SHOP CALIBRATION

Thu Mar 31 15:47:13 2022

	Cal Tube	Units
Tank Ratio	11.6940	SS/LS
LS Detector	68.71	cps
SS Detector	748.49	cps
Tool Ratio	10.8929	SS/LS
Tool Gain	1.0735	----

PRE-SURVEY VERIFICATION

SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)
-------------	-------------	--------------------	------------------

POST-SURVEY VERIFICATION

SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)
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Gamma Ray Calibration Report

Type / Serial: Probe275dig / FW1403-107

SHOP CALIBRATION

Sat Apr 2 17:48:05 2022

	Counts/Sec.	Gain	Offset	Jig	Units
Background	80.7				cps
Calibrator	289.3				cps
		0.7911			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	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: FW1311-19
Tool Model: Probe275acc

Calibration Casing Diameter: 4.500 in
Calibration Depth: 37.425 ft

Master Calibration, performed Wed Apr 6 07:33:33 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.780	0.000	81.196	104.242	-0.064
CAL	0.000	0.809				
5'	0.002	0.705	0.000	81.196	115.447	-0.225
SUM						
S1	0.003	0.808	0.000	100.000	124.108	-0.314
S2	0.001	0.792	0.000	100.000	126.406	-0.069
S3	0.000	0.804	0.000	100.000	124.391	-0.050
S4	0.000	0.785	0.000	100.000	127.371	-0.016
S5	0.000	0.762	0.000	100.000	131.225	-0.032

S6	0.001	0.767	0.000	100.000	130.475	-0.092
S7	0.000	0.782	0.000	100.000	127.968	-0.052
S8	0.001	0.770	0.000	100.000	130.085	-0.149

Internal Reference Calibration, performed (Not Performed):

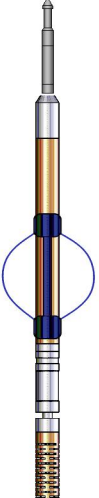
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.809	1.000	0.000

Air Zero Calibration, performed Wed Apr 6 07:33:54 2022:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Gain	Offset
3'	0.000		0.000			0.000
5'	0.002		0.000			0.000
SUM						
S1	0.002		0.000			0.000
S2	0.002		0.000			-0.001
S3	0.000		0.000			0.000
S4	0.000		0.000			-0.000
S5	0.001		0.000			-0.000
S6	0.000		0.000			0.001
S7	0.001		0.000			-0.000
S8	0.000		0.000			0.001

Inclinometer Calibration Report

Performed:	(Not Performed)				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1.38CHD 1.38 Cable Head	1.00	1.38	2.00
			SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00

