



SECTOR CEMENT BOND
GAMMA RAY
CCL LOG

Company **BISON IV OPERATING LLC**
Well **FOX CREEK 12-63 25-24-4**
Field **HEREFORD**
County **WELD** State **CO**

Location: API # : 05-123-50373
931' FSL & 1455' FEL
SEC 25 TWP 12N RGE 63W
Permanent Datum GL
Log Measured From GL 0' Above Perm. Datum
Drilling Measured From KB
Other Services
NONE
K.B. NA
D.F. NA
G.L. 5399'

Comp. **BISON IV OPERATING LLC**
Well **FOX CREEK 12-63 25-24-4**
Field **HEREFORD**
Co. **WELD**
State **CO**

Date of Service	09-NOV-2024		
Run Number	ONE		
Depth Driller or PBTID	19,990'		
Depth Logger	9420'		
Bottom Log Interval	9420'		
Top Log Interval	SURFACE		
Open Hole Size	8.5"		
Type Fluid	H2O		
Fluid Level	SURFACE		
Fluid Density	8.33 LB/GAL		
Max. Recorded Temperature	NA		
Max. Wellhead Pressure	2000 PSI		
Wellhead Connection	7-1/16" 15K		
Estimated Cement Top	150'		
Unit Number	1098		
Wireline Size	.350"		
Location	BRIGHTON		
Recorded By	C. SHEPPARD		
Witnessed By	L. MULLINS		
Size	9-5/8"	Wt Ft	Top
Surface Casing	5.5"	36#	Bottom
Production Casing		20#	
Liner Casing			
Tubing Record			

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All interpretations are opinions based on inferences from electrical or other measurements and Ranger Energy Services cannot and does not guarantee the accuracy or correctness of any interpretation, and Ranger Energy Services will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
LOG CORRELATED TO GL

2000 PSI APPLIED @ SURFACE

THANK YOU FOR USING RANGER ENERGY SERVICES!!

THANK YOU FOR USING RANGER ENERGY SERVICES! FIELD TICKET #

Your Ranger Energy Services Crew

Engineer: C. SHEPPARD
Operator: E. CARRANZA
Operator: A. FERGUSON
Operator:

Tool Data - Services

Serial Number

Top - Bottom

BOREID in 8.75	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0.361	CASEWGHT lb/ft 20	MAXAMPL mV 71.9	MINAMPL mV 2.2	MINATTN db/ft 0.8
PERFS No	PPT usec 261	SRFTEMP degF 30	TDEPTH ft 9420				

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness

CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation

PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth



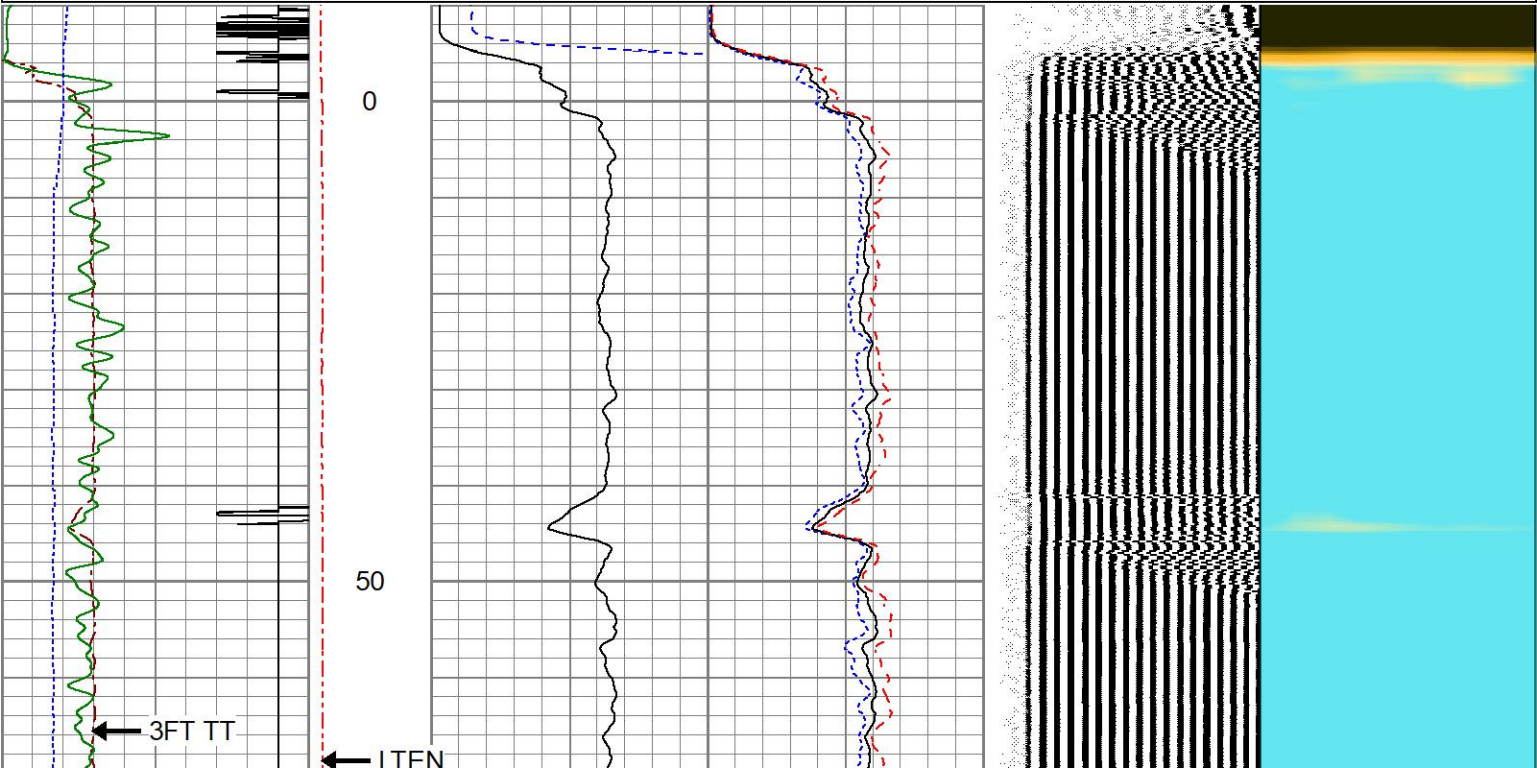
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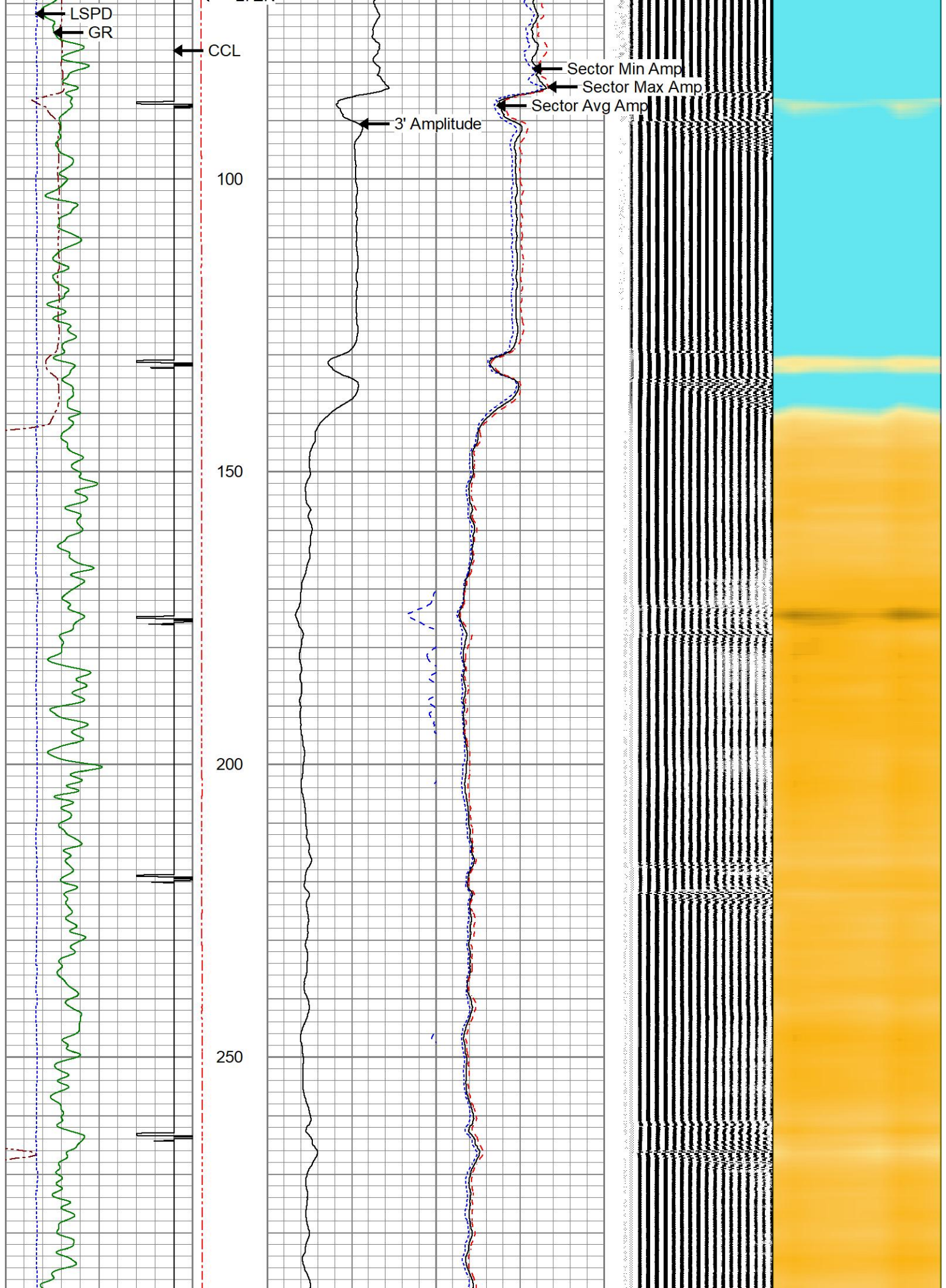
2000 PSI APPLIED AT SURFACE

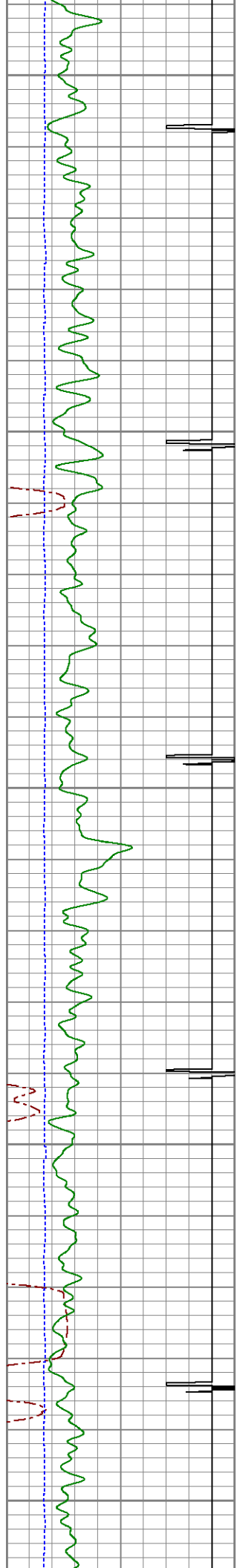
Database File
Dataset Pathname
Presentation Format
Dataset Creation
Charted by

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res_scb1 8sec-gr-ccl
Sat Nov 09 16:53:19 2024
Depth in Feet scaled 1:240

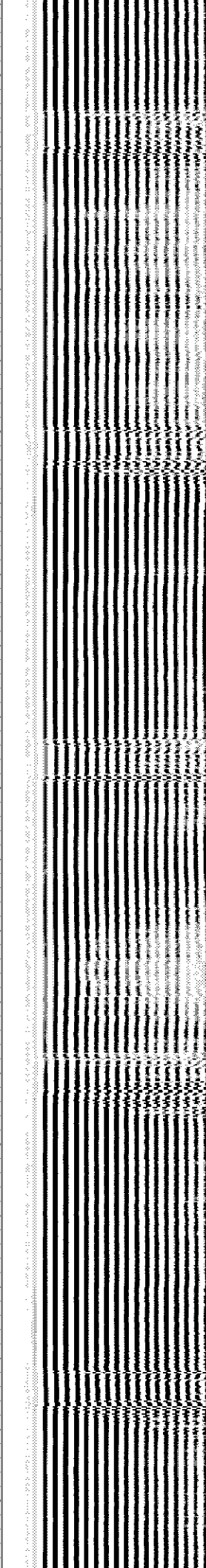
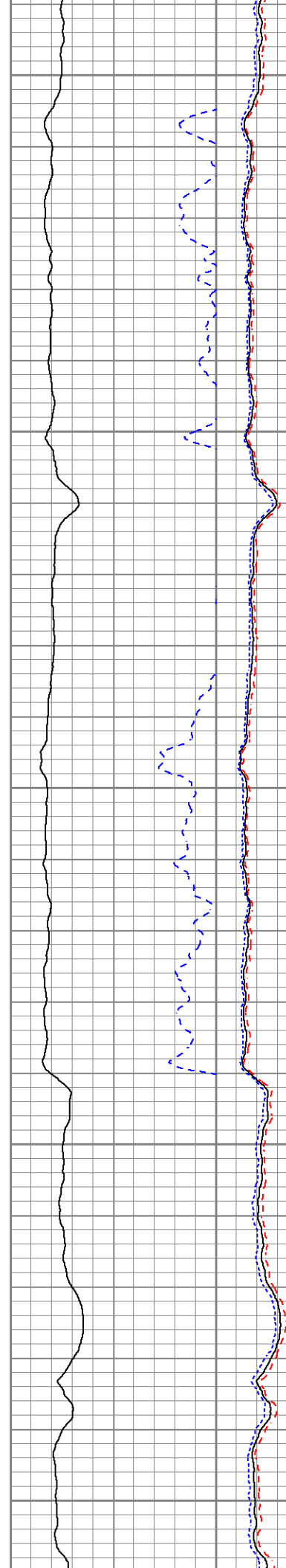
270 3FT TT (usec) 170	LTEN	3' Amplitude	0 Sector Min Amp150	200 VDL (usec) 1200	1 Sector Map	8
-9 CCL 1	(lb)	(mV) 100	Sector Avg Amp			
0 GR (GAPI) 150	0 2000	3' Amplified Amplitude X 5	0 150			
-150 LSPD (ft/min) 150		(mV) 20	Sector Max Amp			
			0 150			

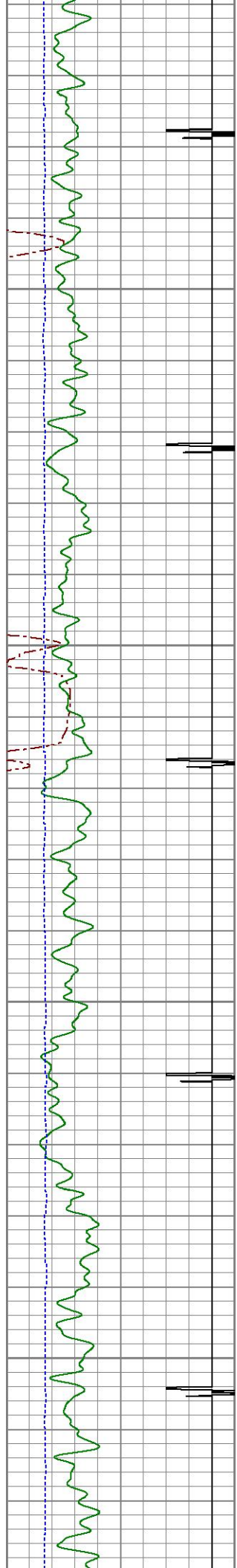






300
350
400
450
500



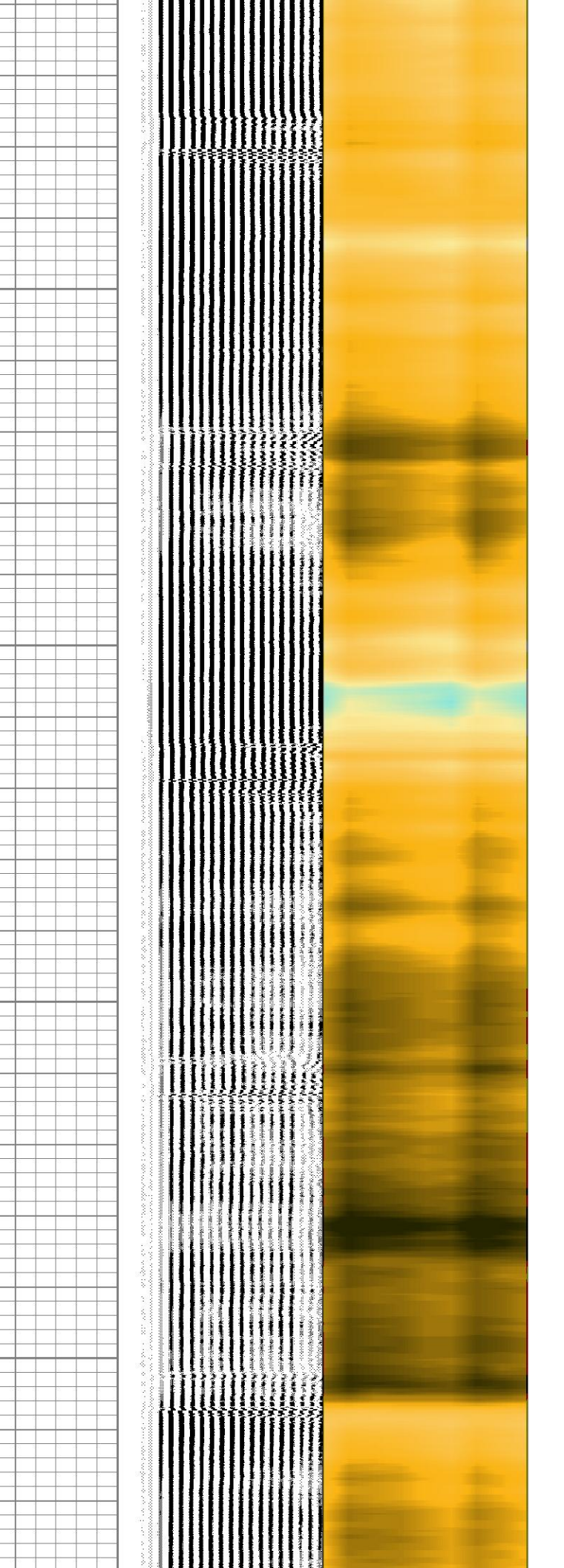
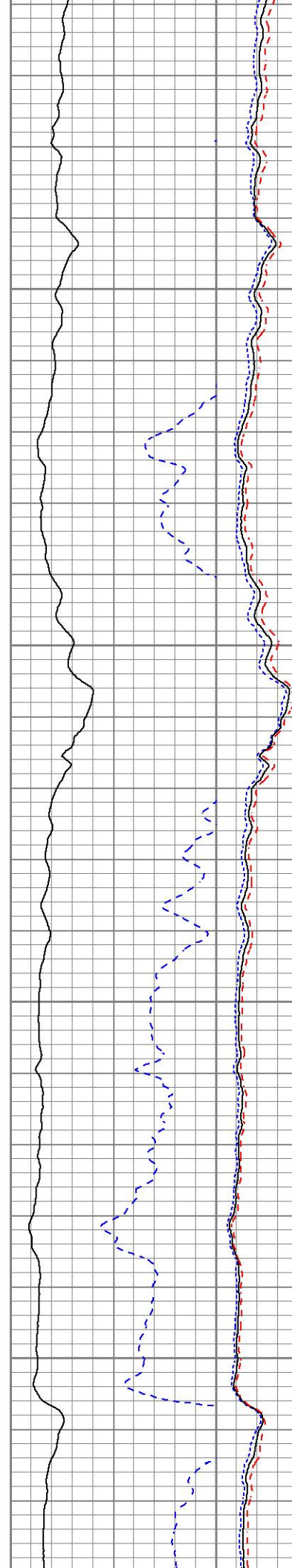


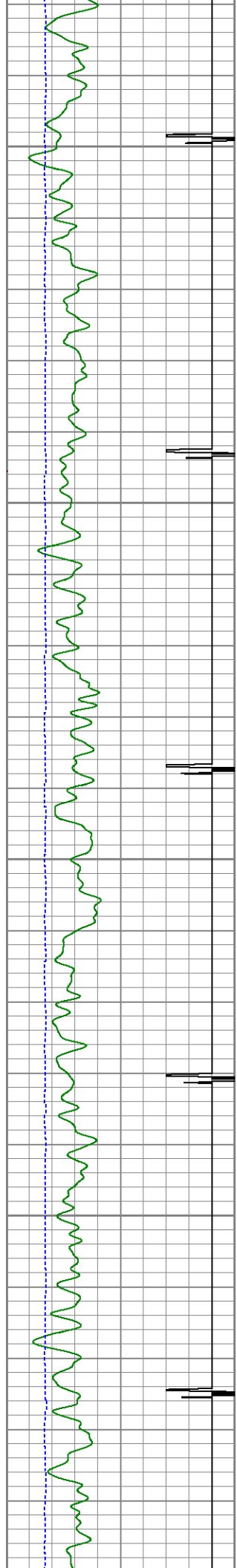
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700





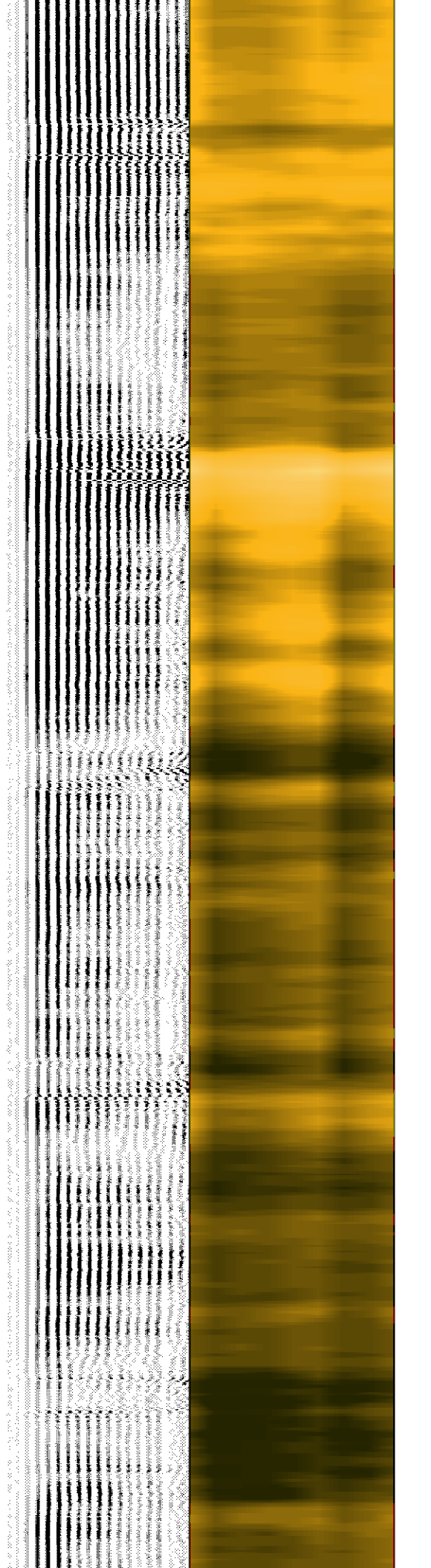
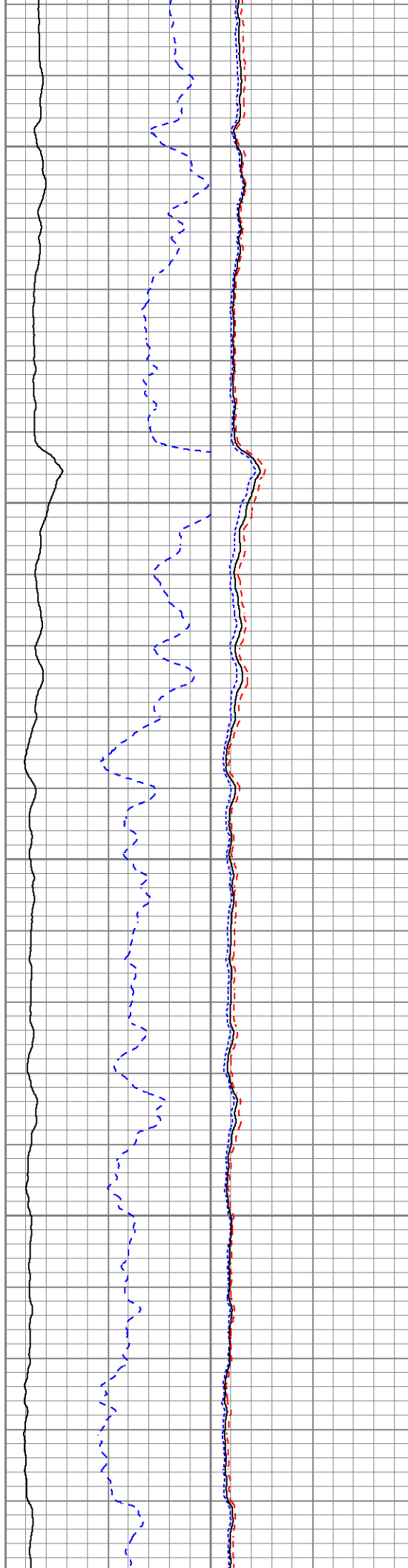
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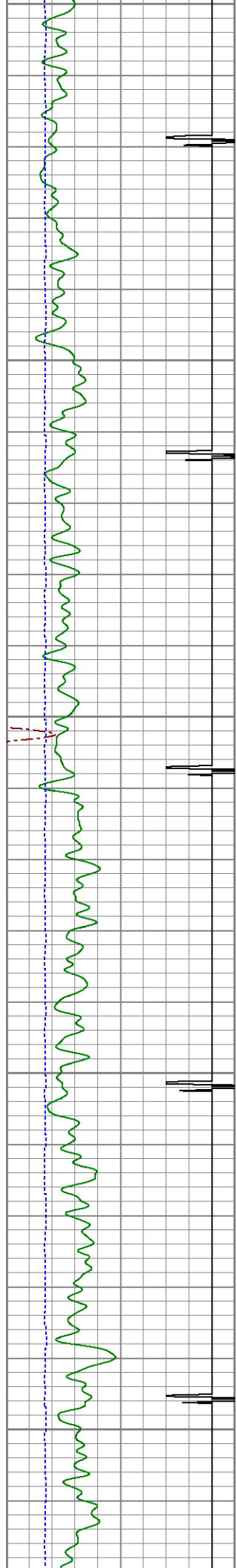
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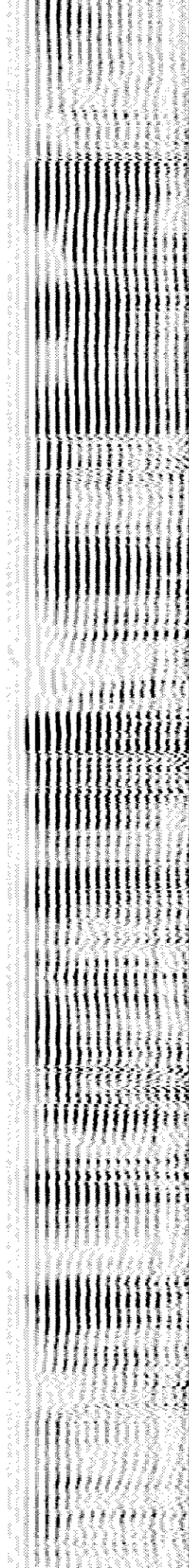
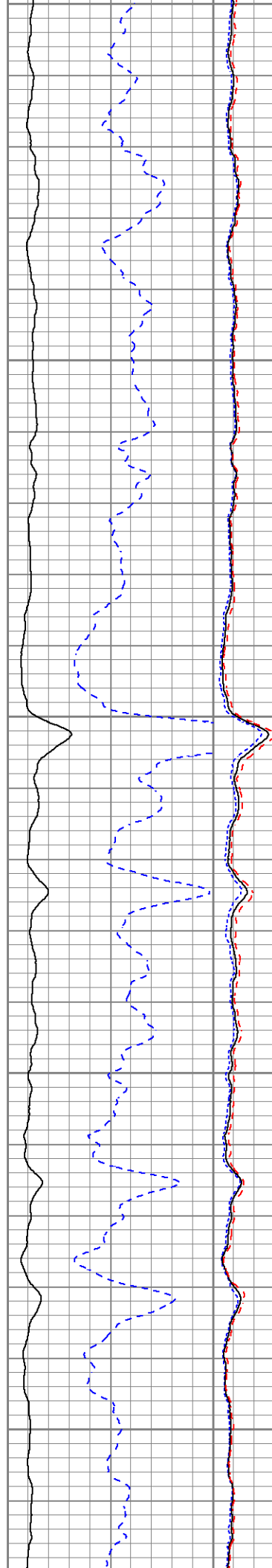
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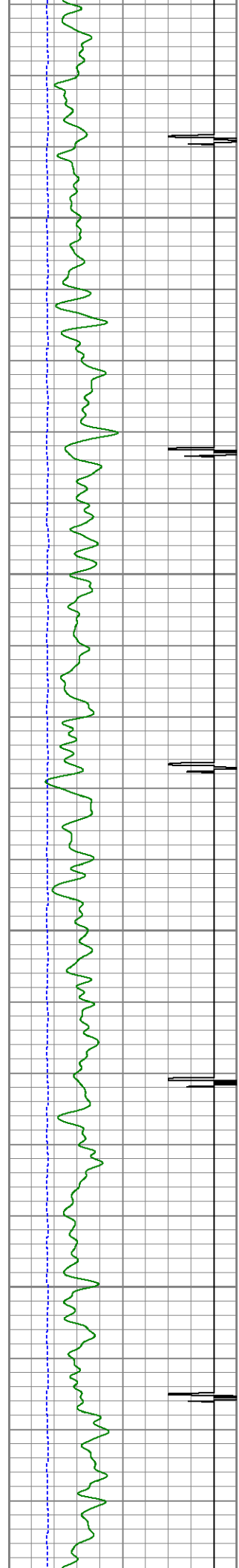
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950
1000
1050
1100
1150



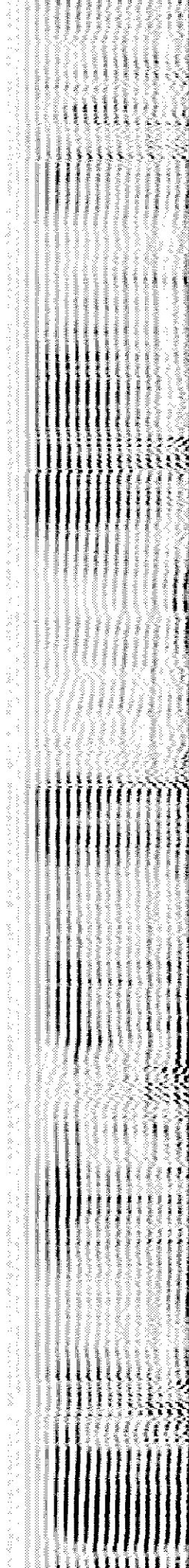
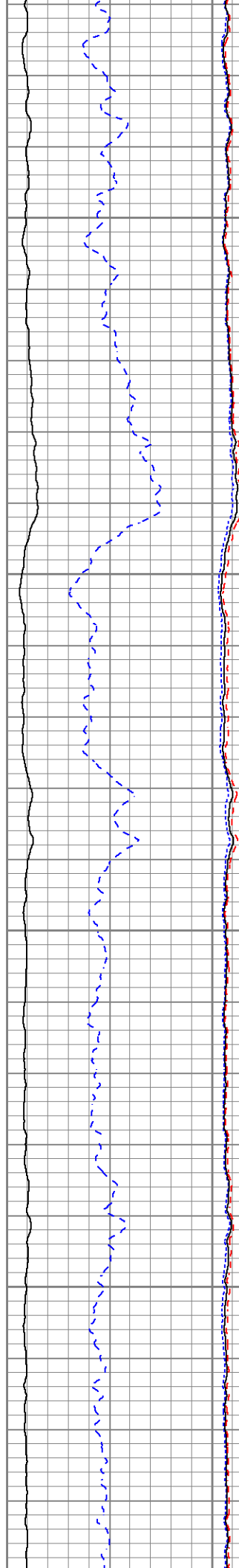


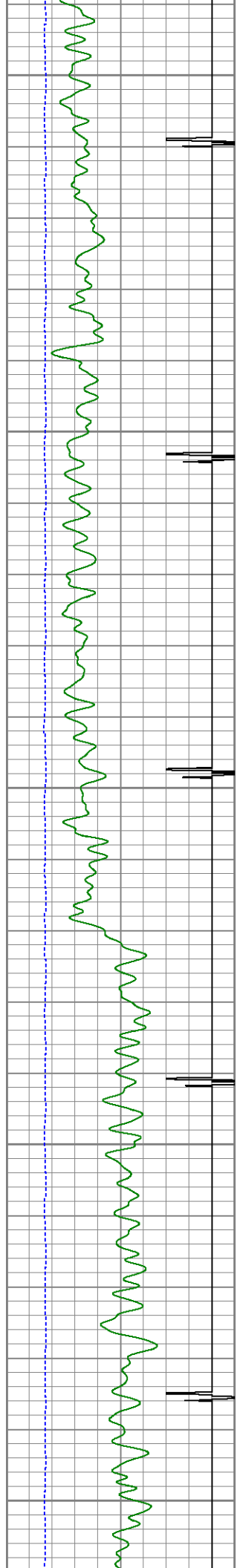
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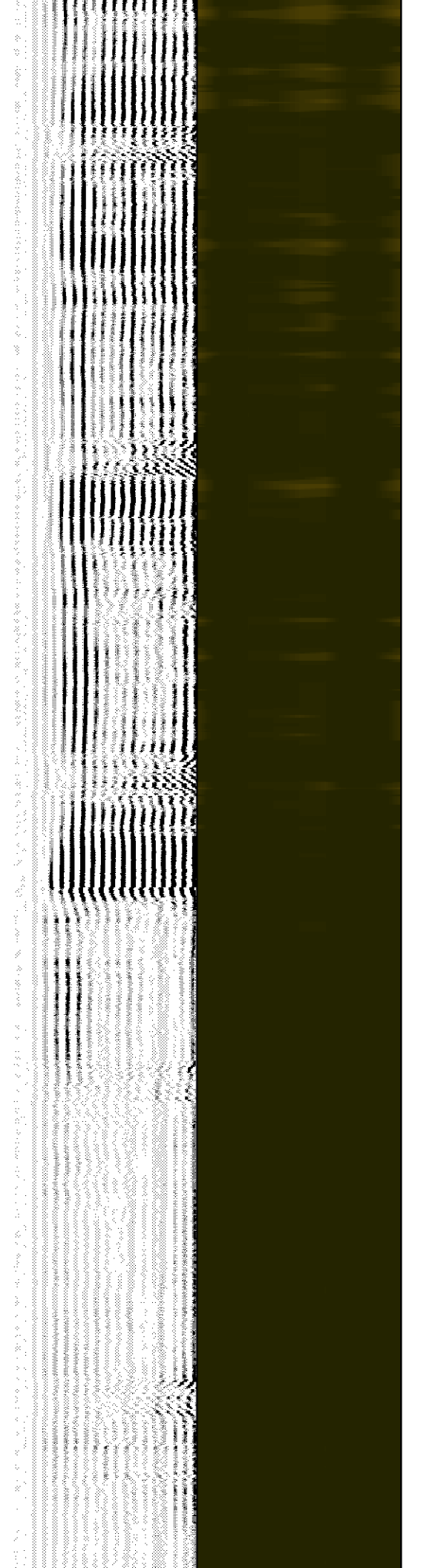
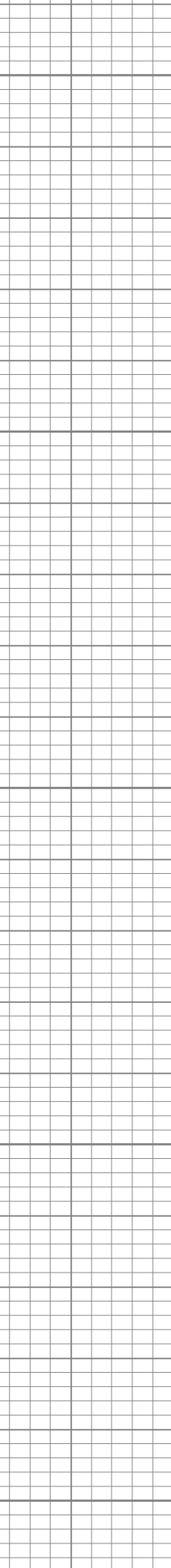
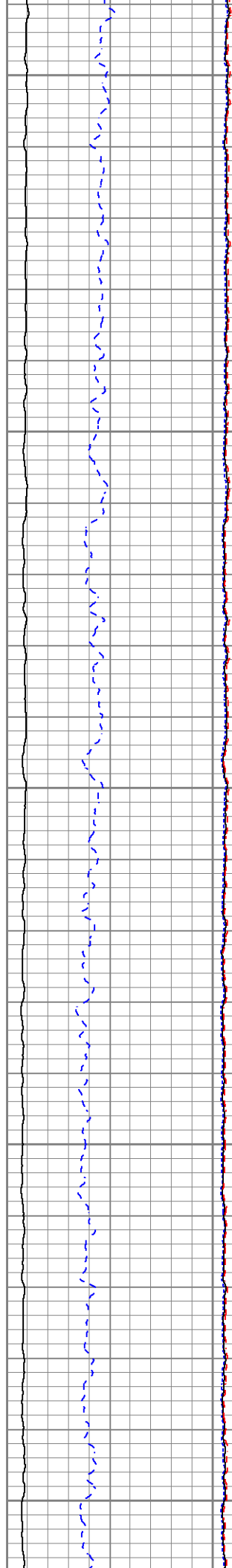
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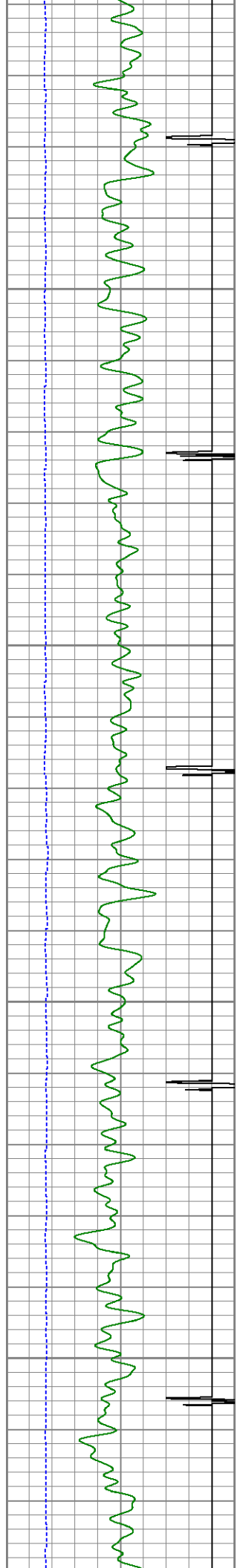
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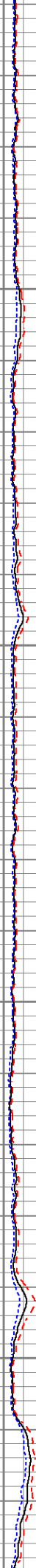
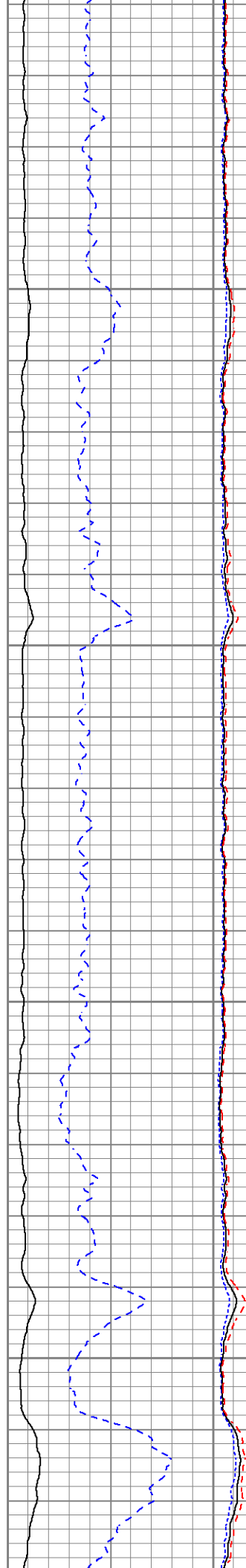


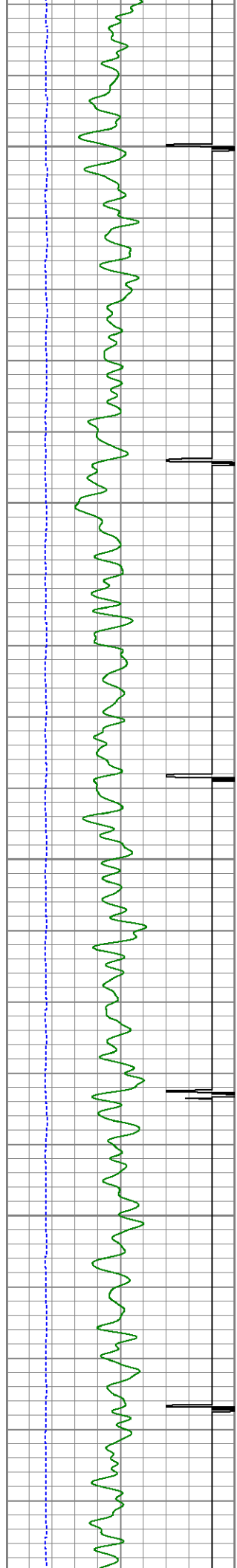
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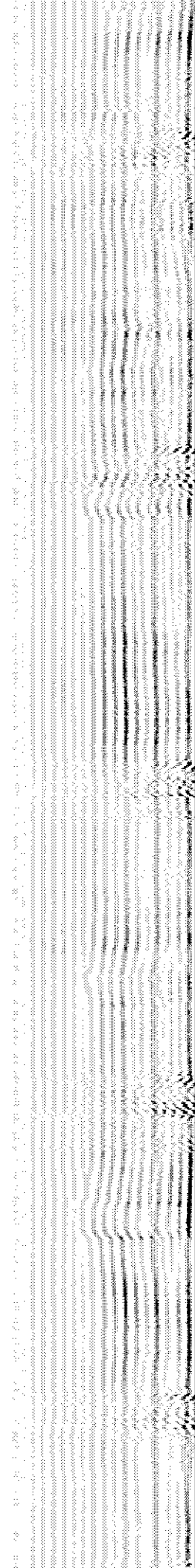
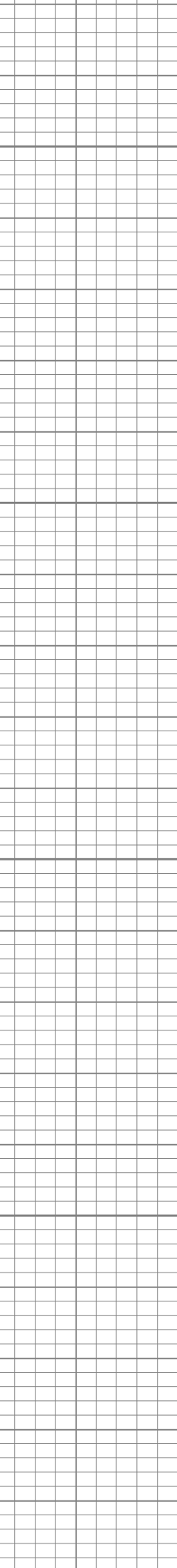
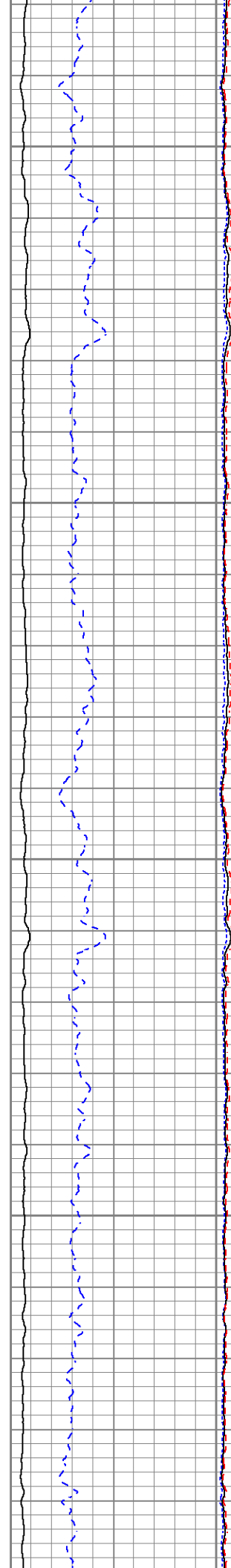
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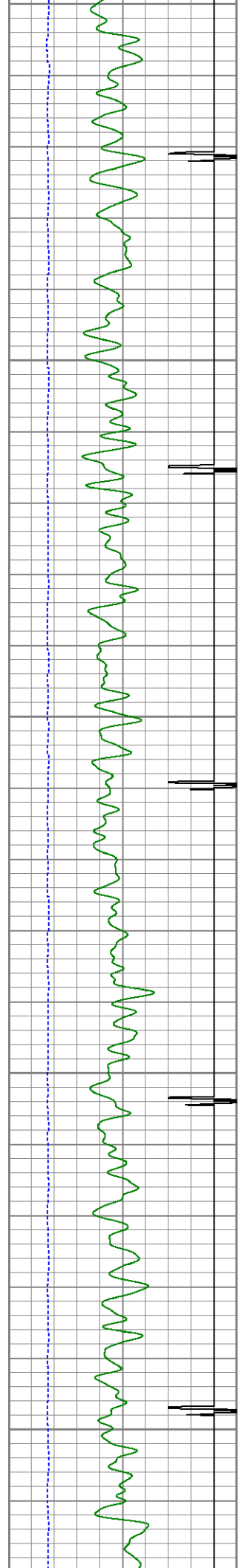
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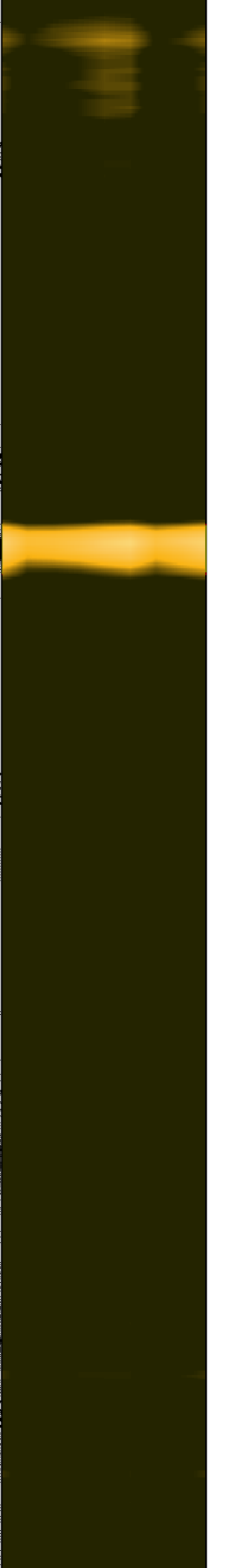
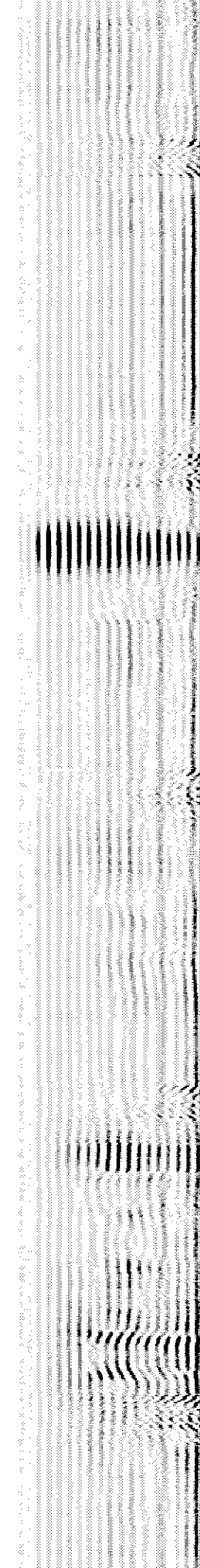
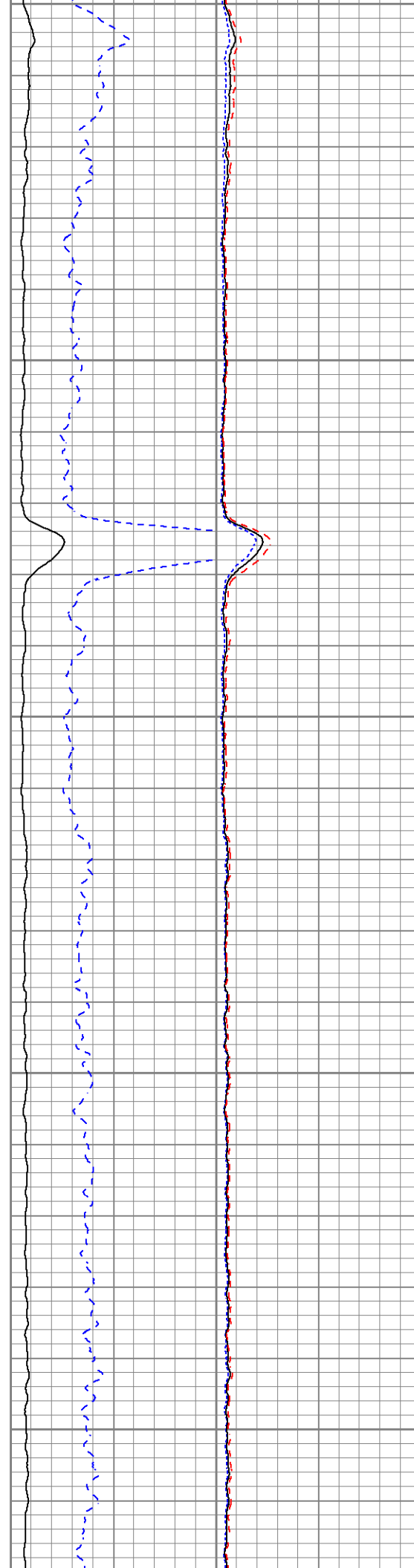
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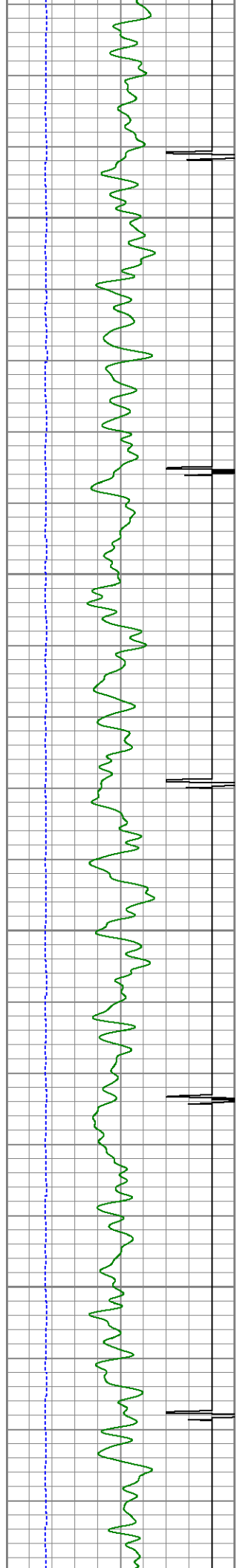
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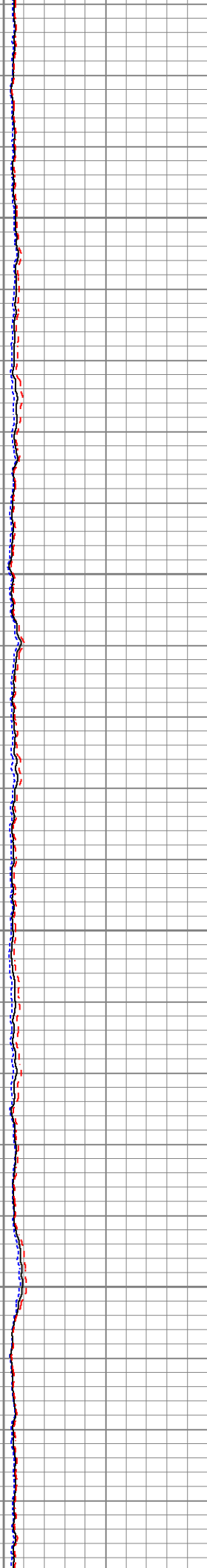
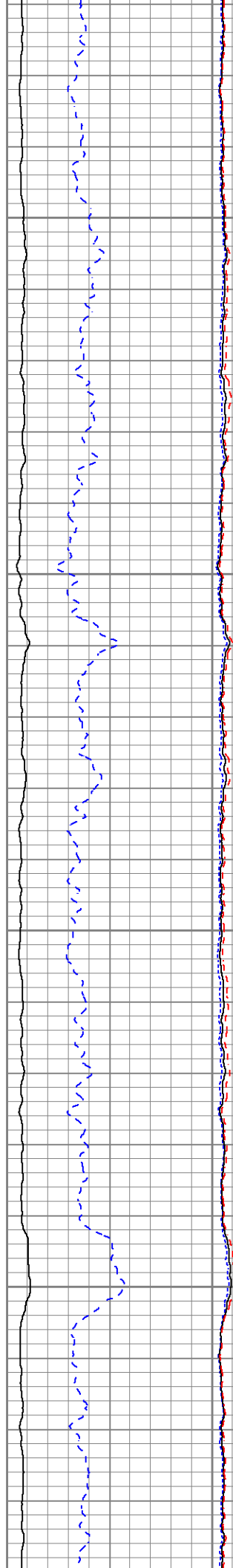


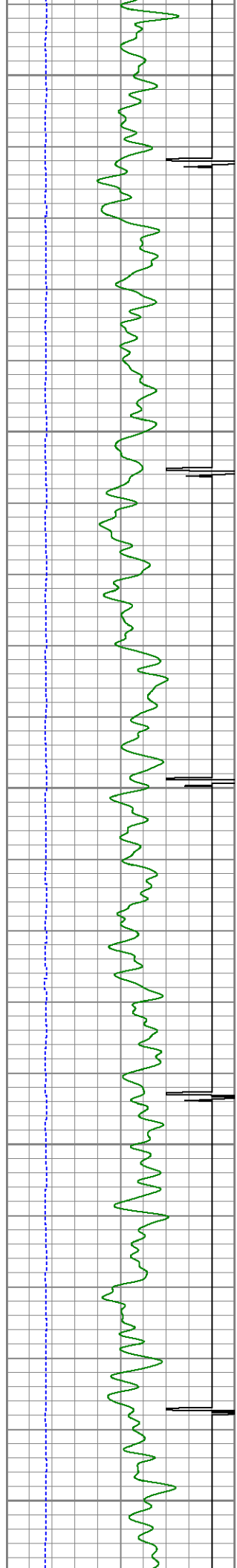
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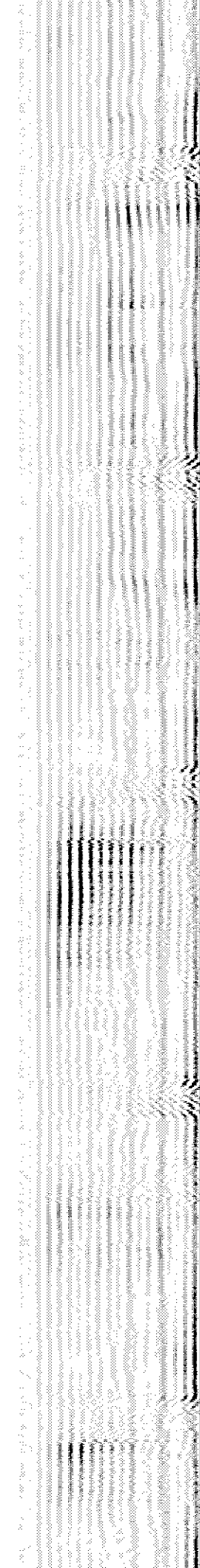
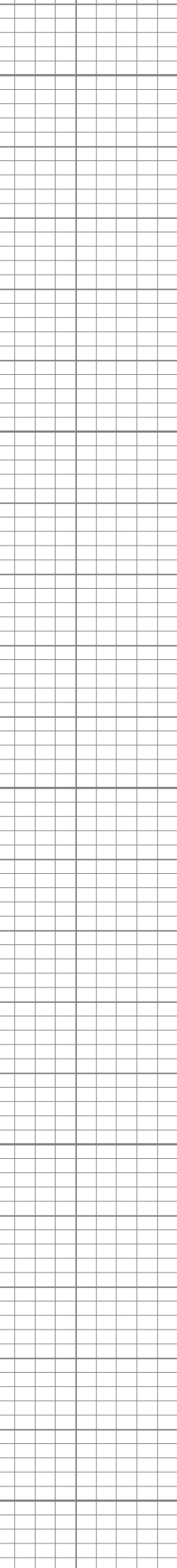
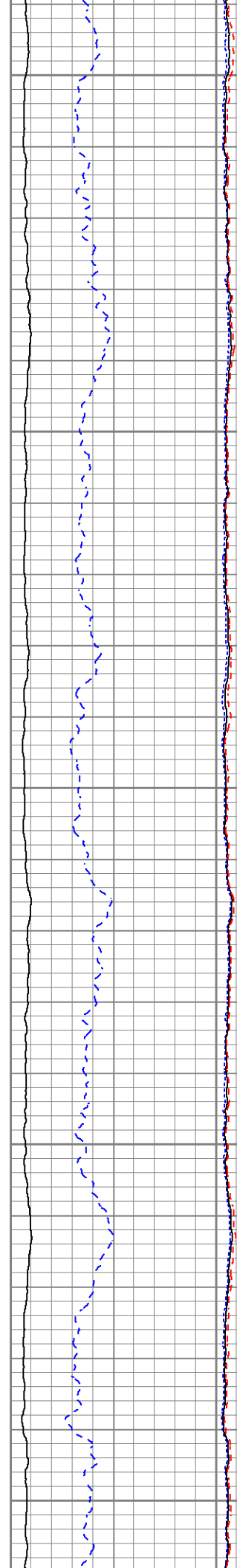
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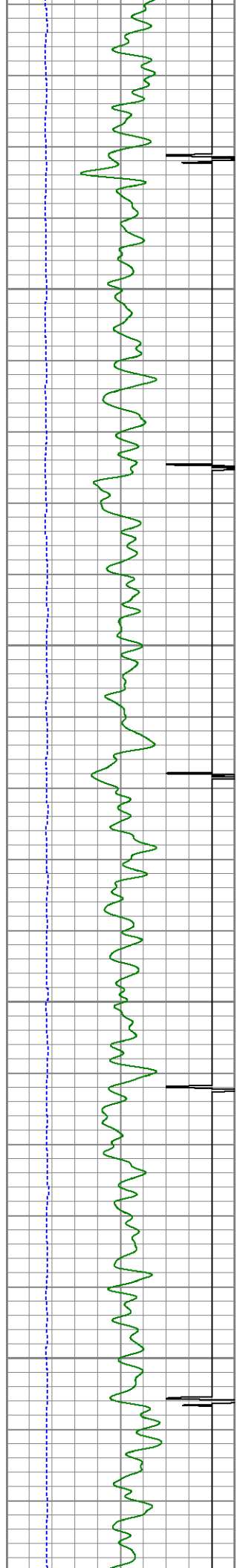
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2500
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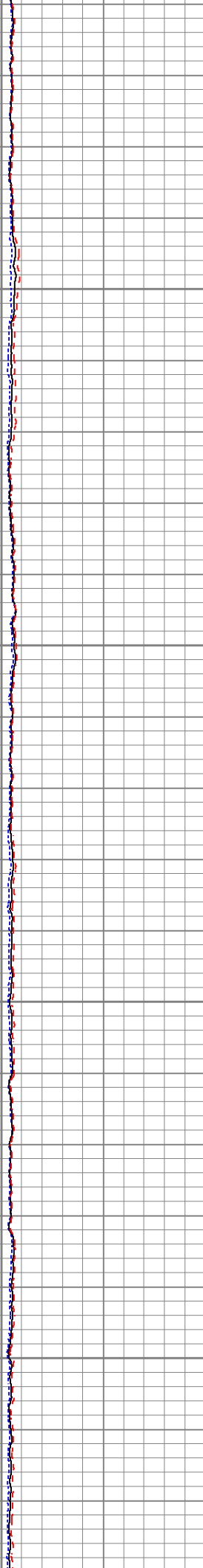
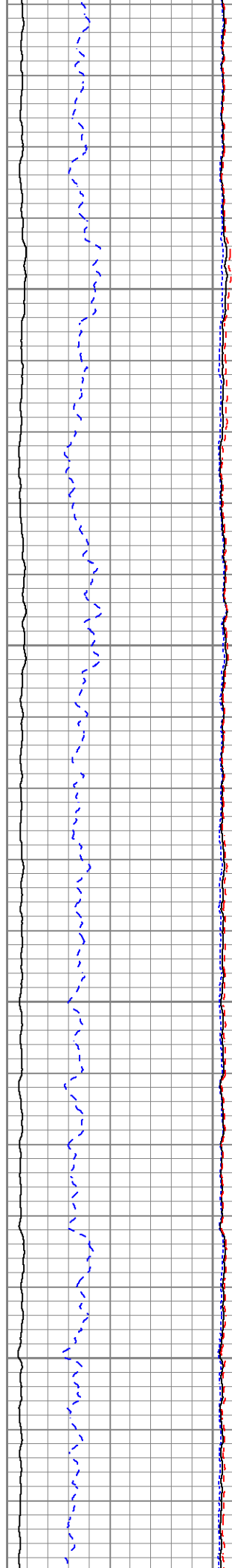


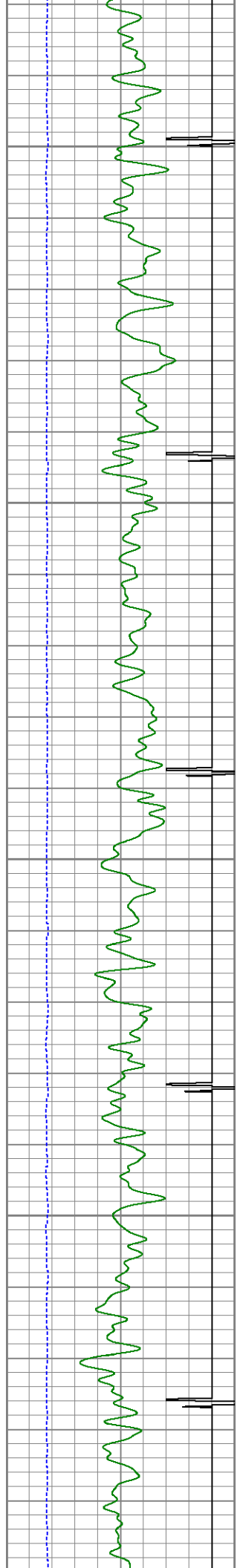
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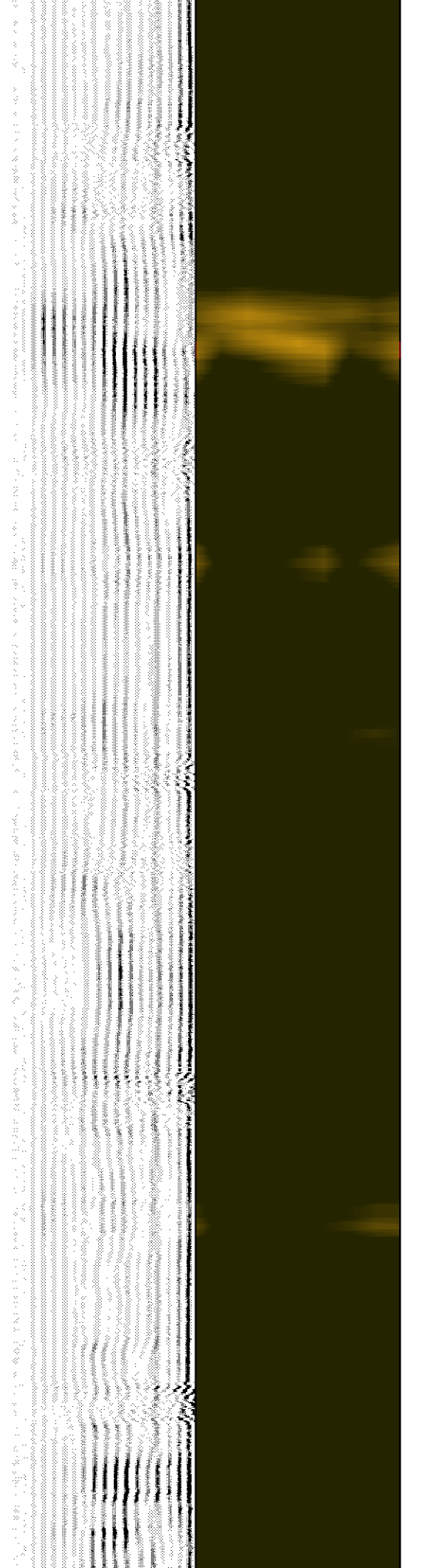
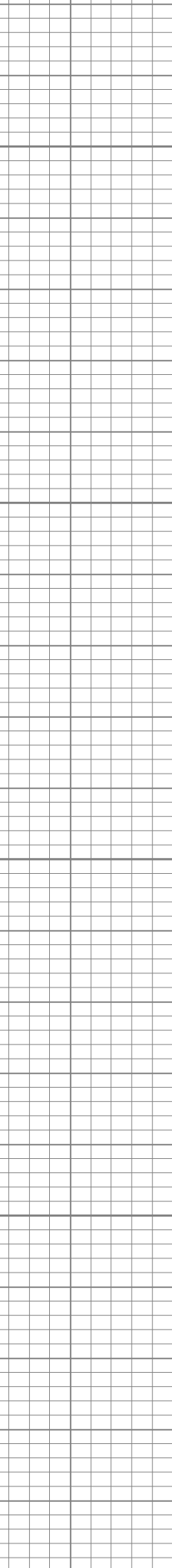
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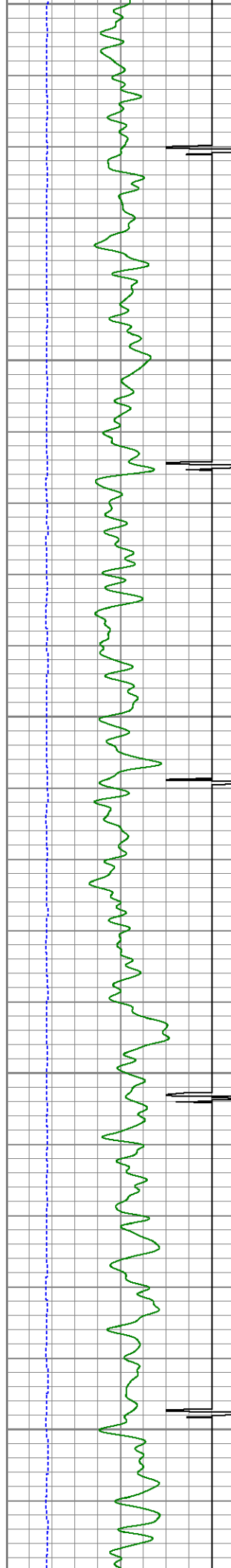
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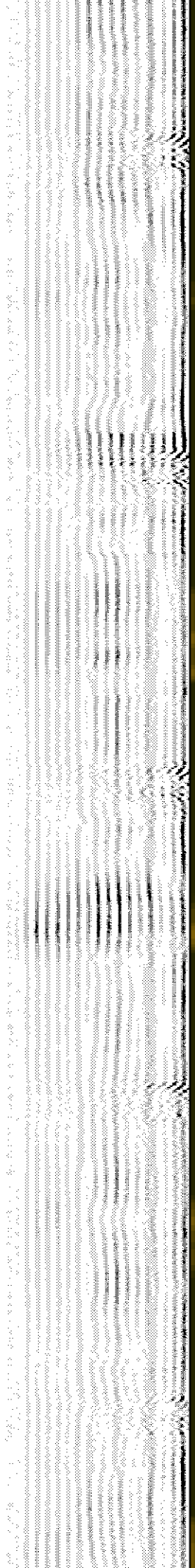
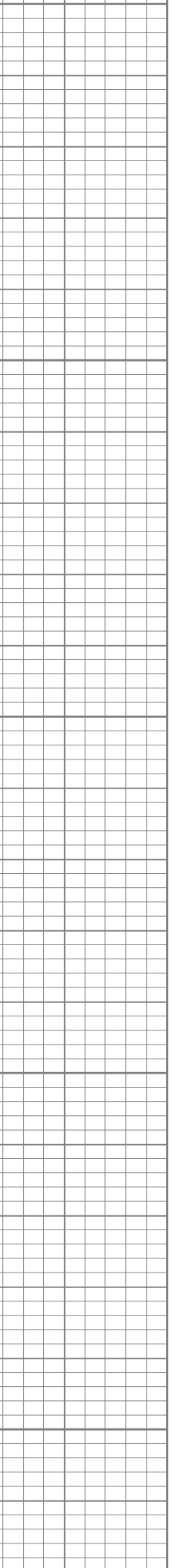
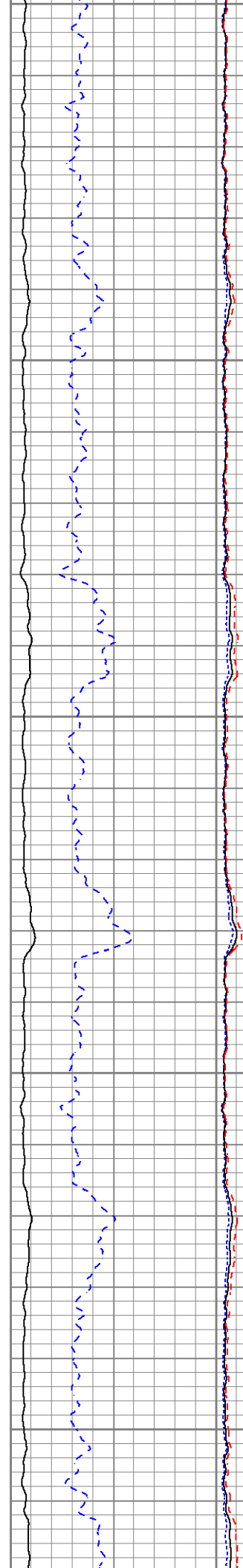
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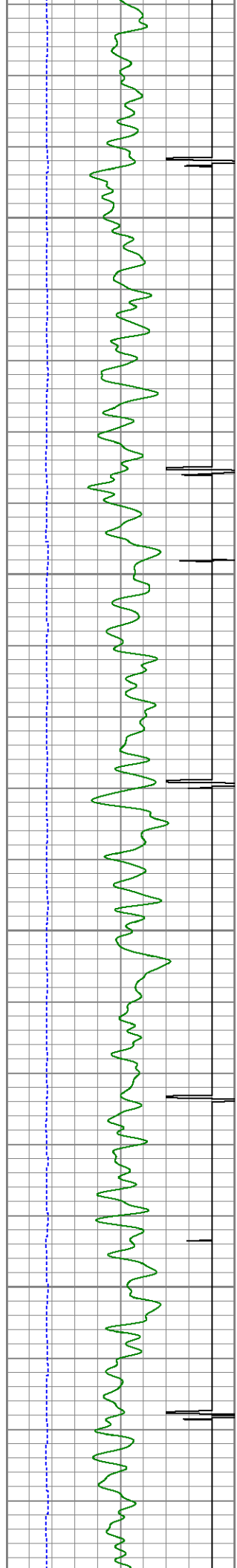
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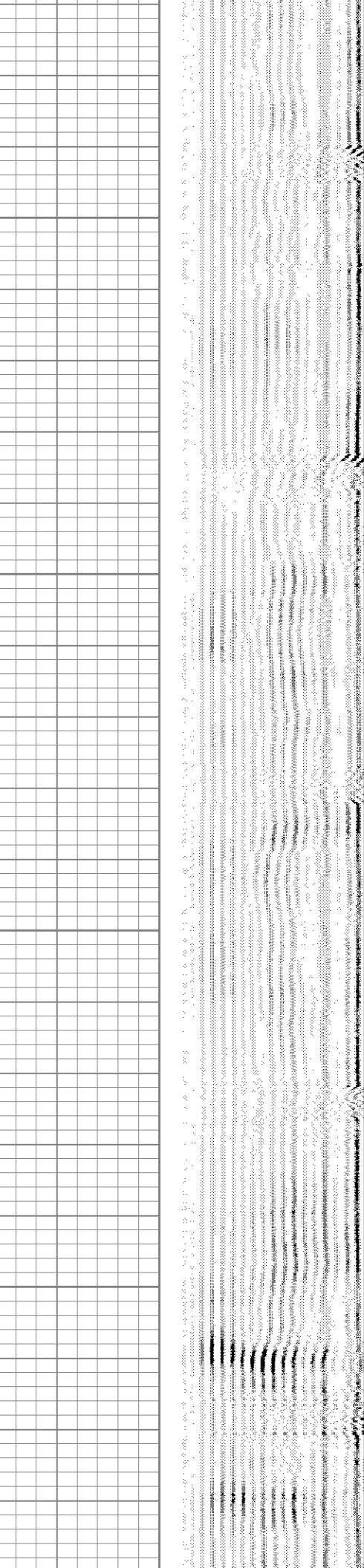
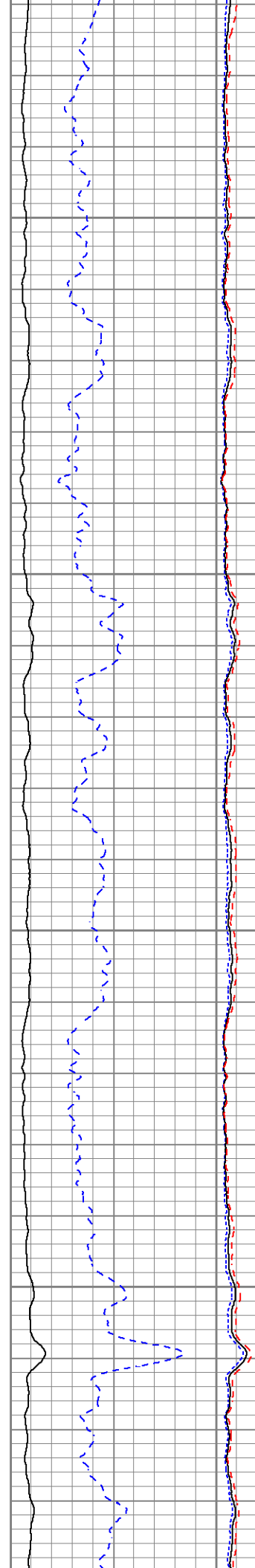


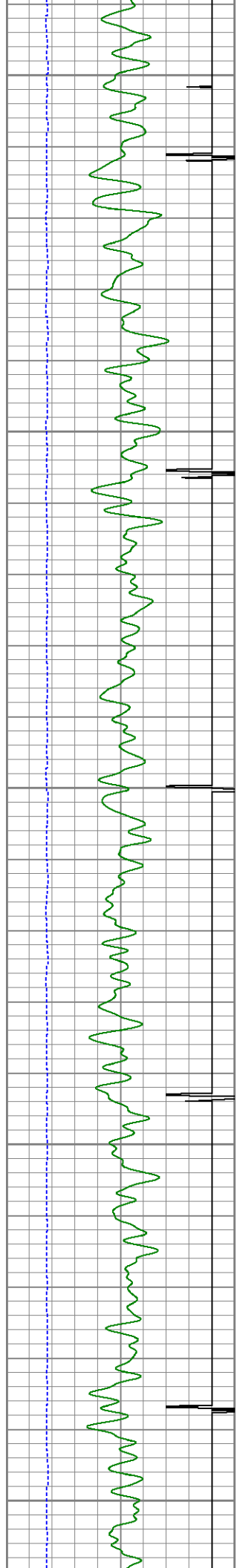
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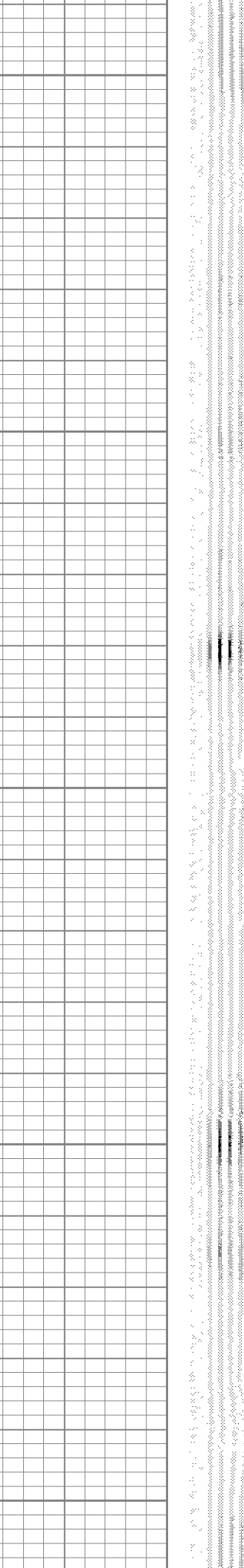
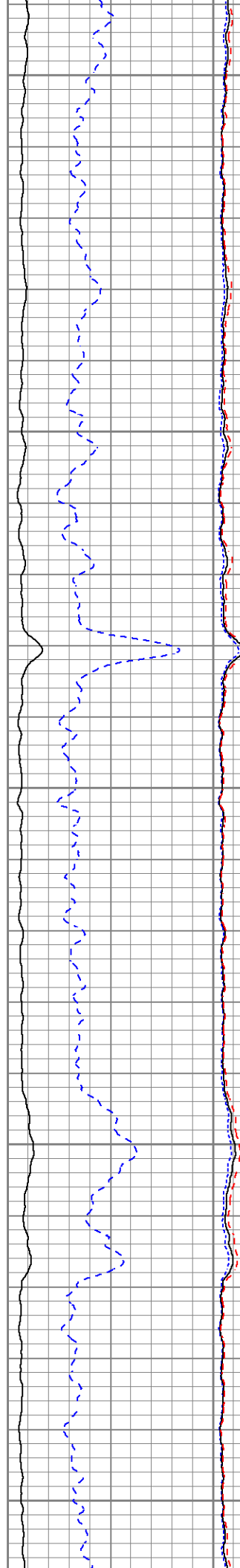
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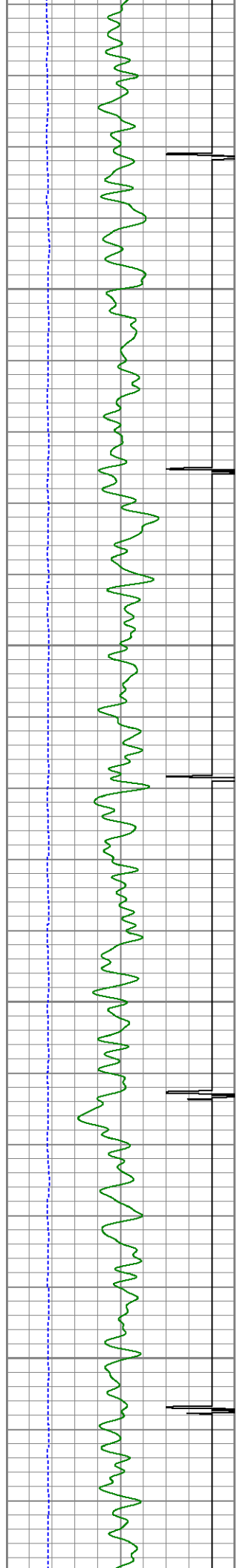
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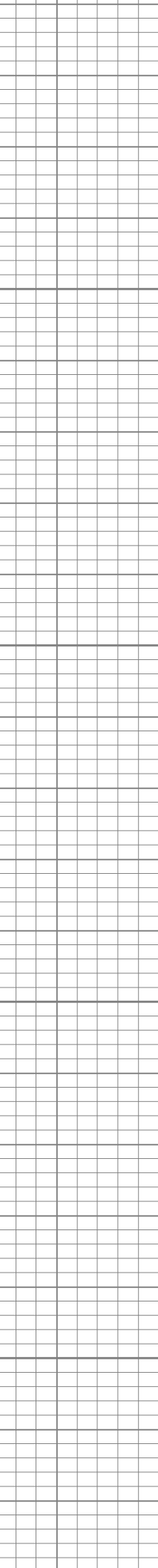
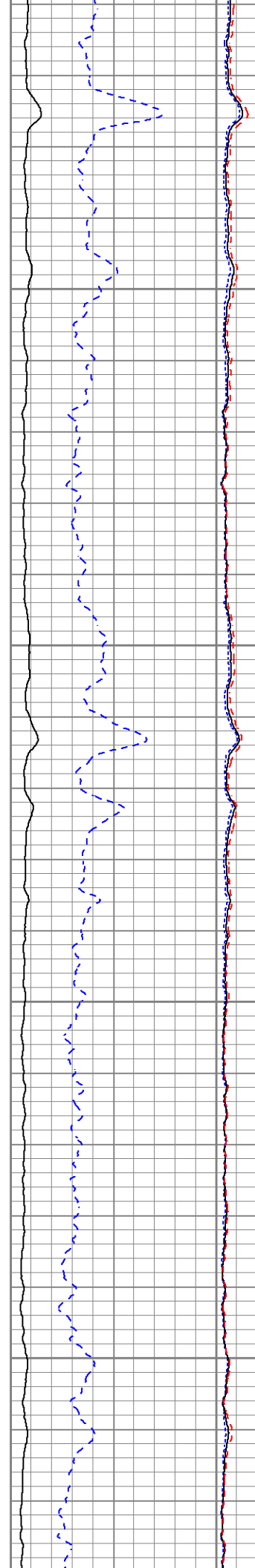


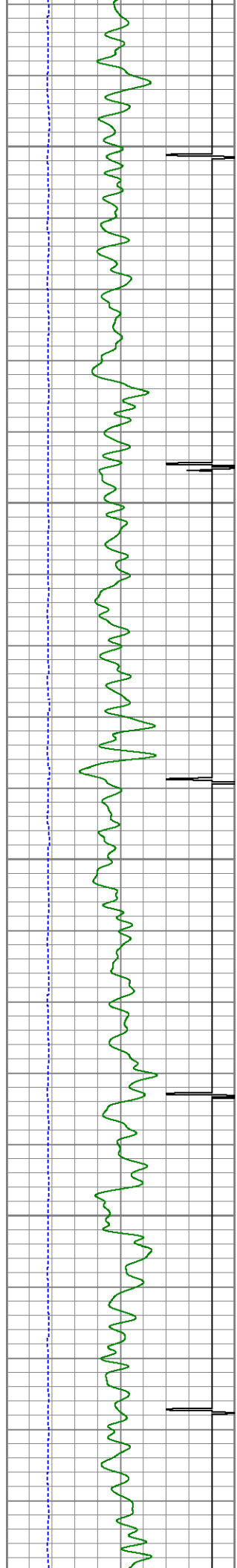
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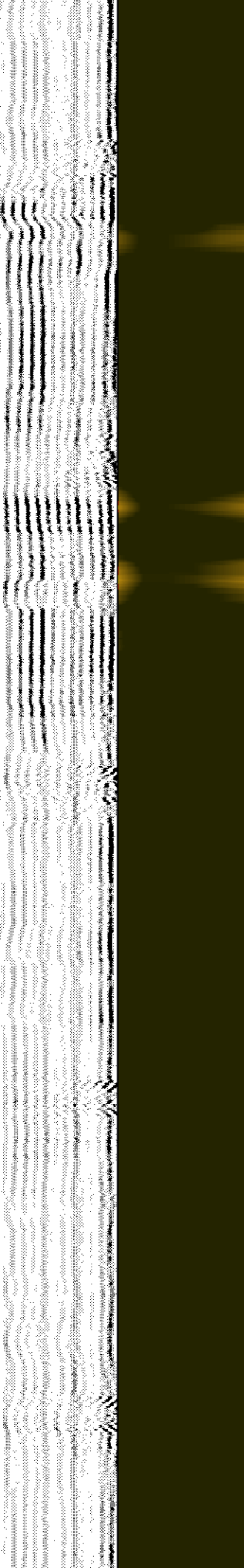
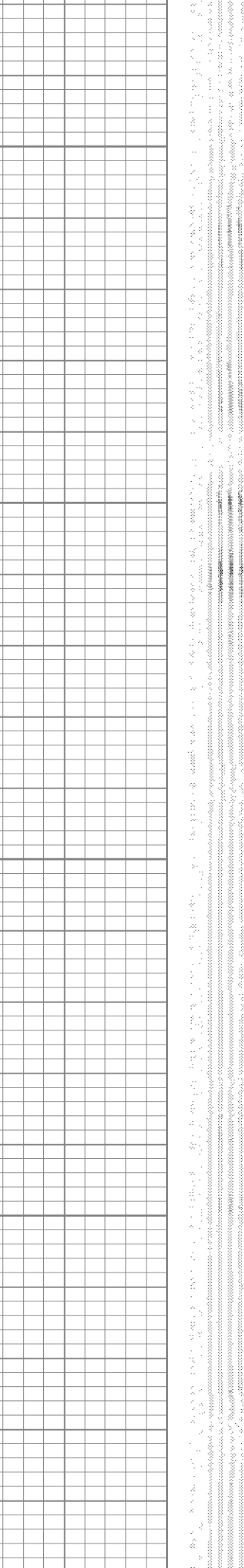
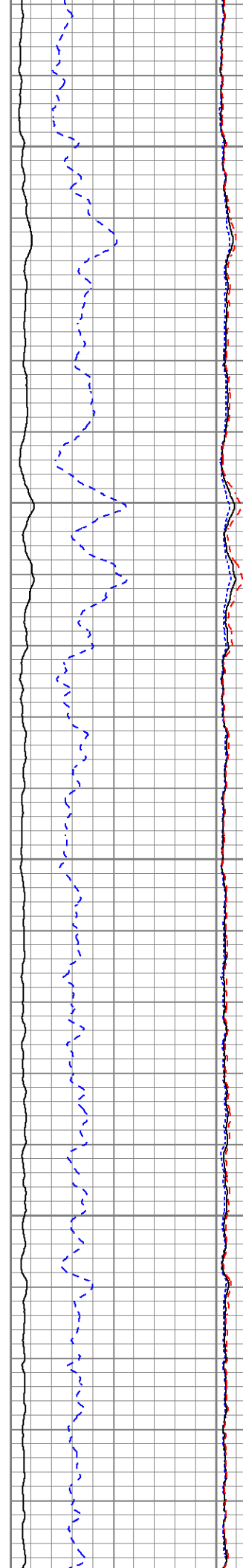
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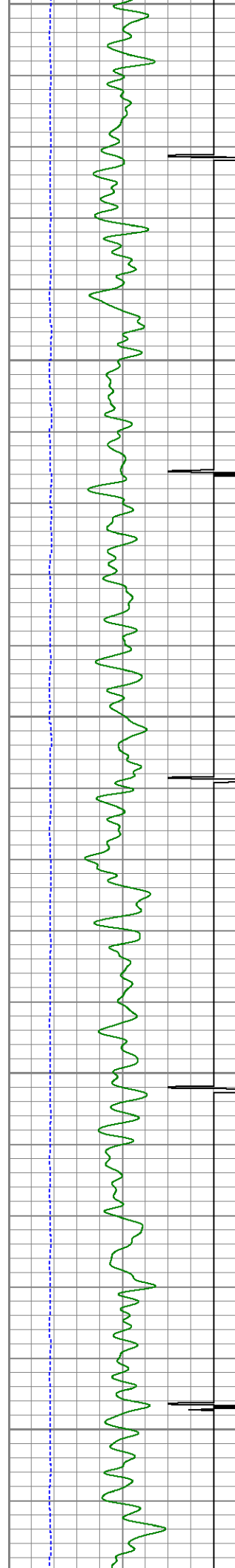
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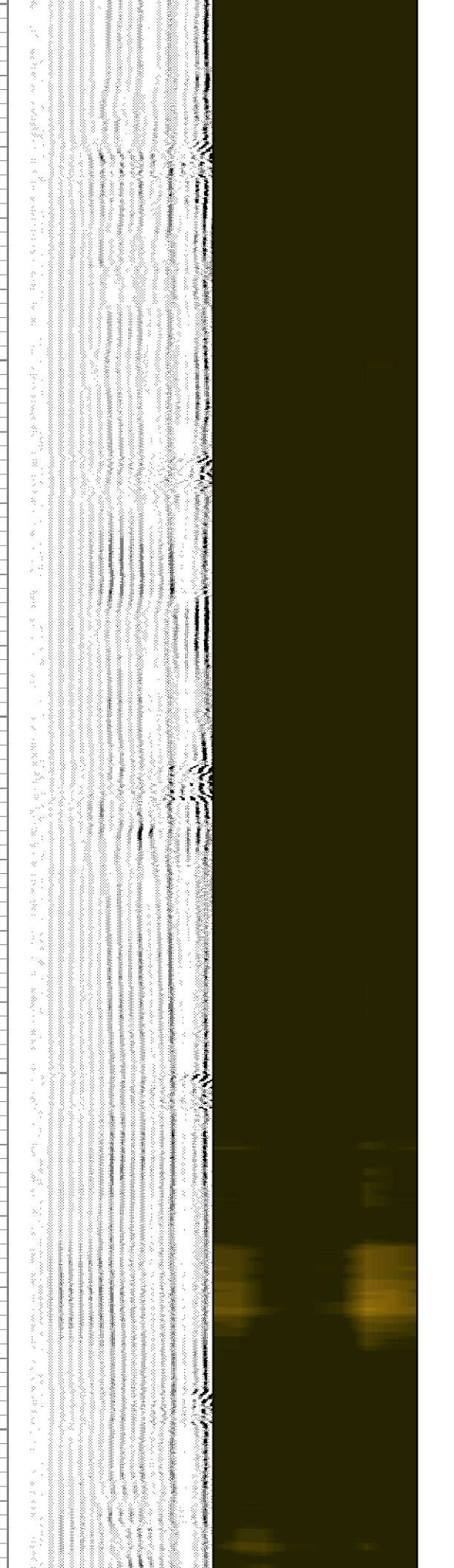
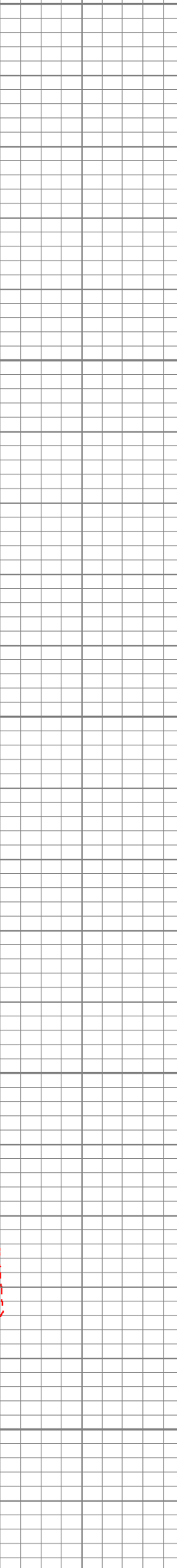
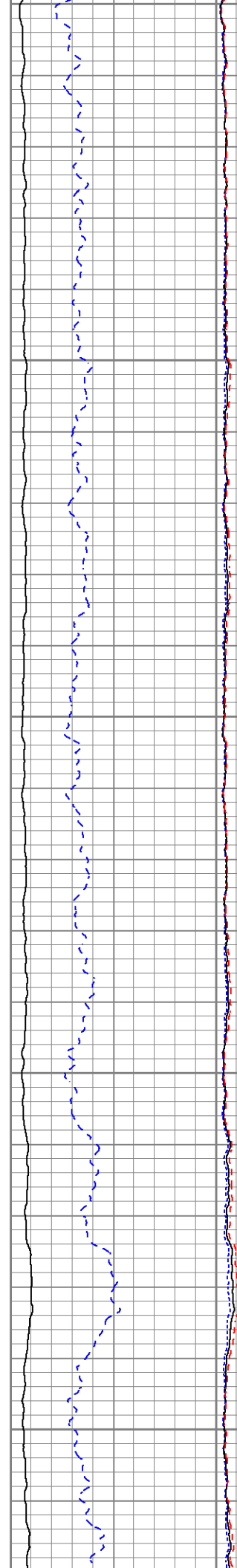
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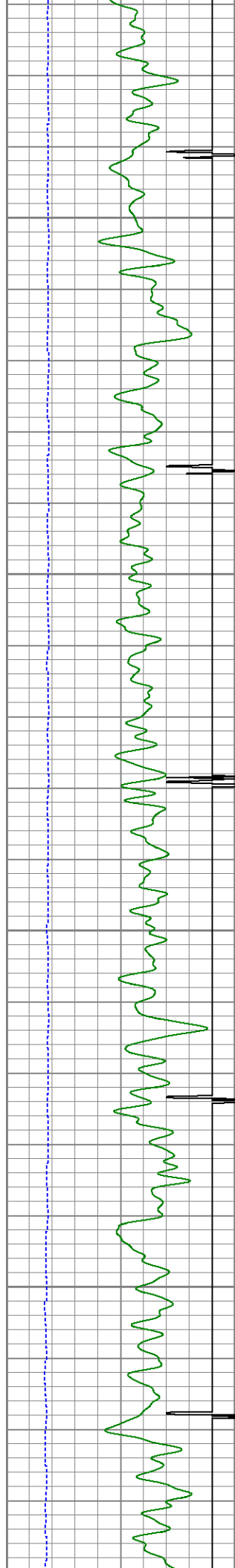
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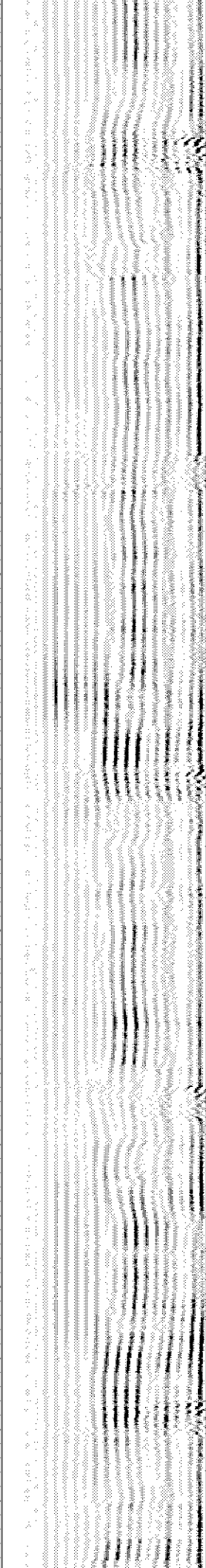
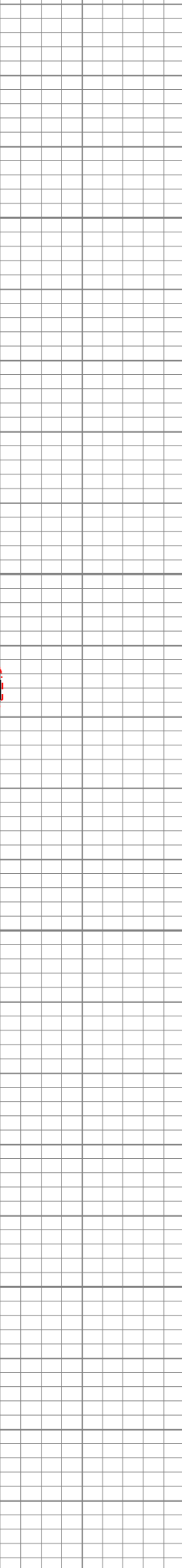
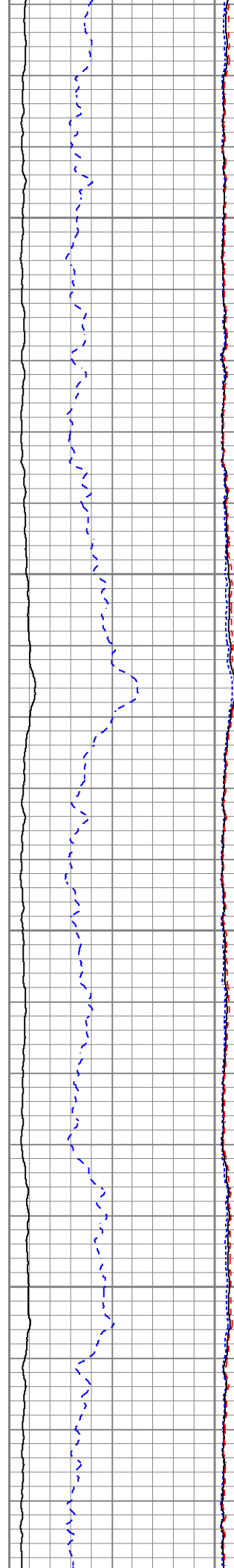


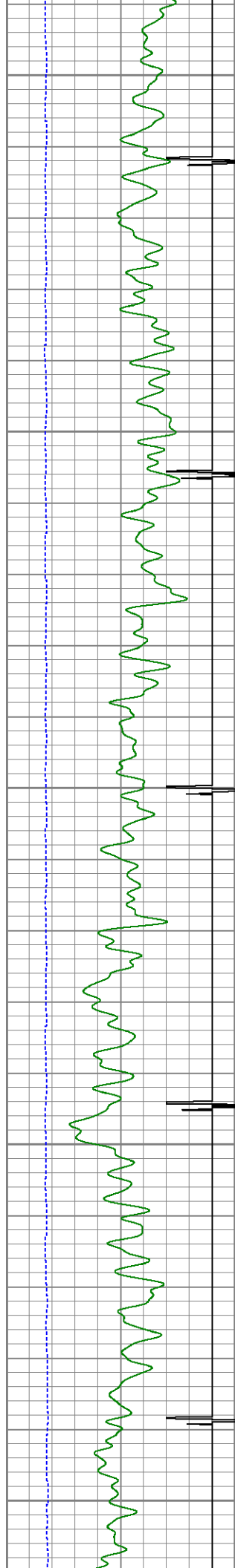
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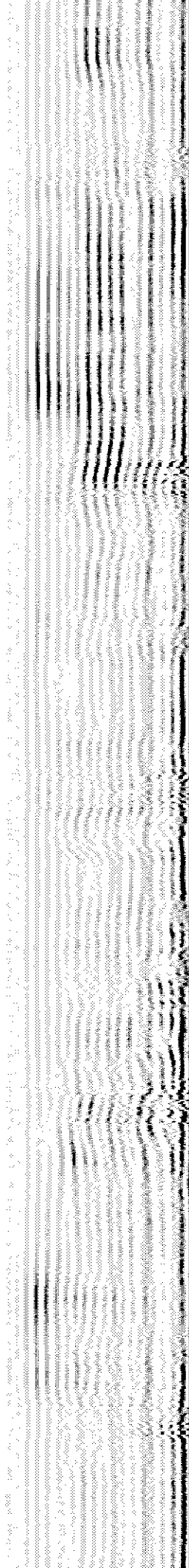
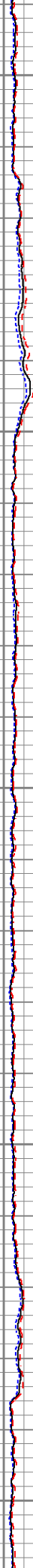
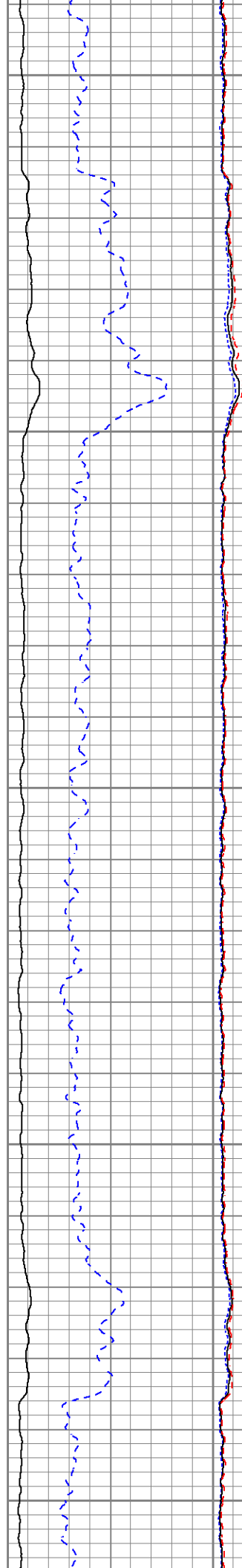
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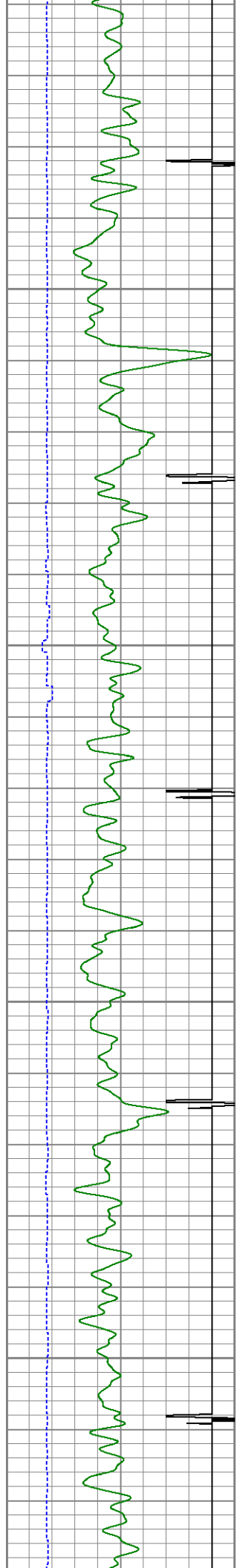
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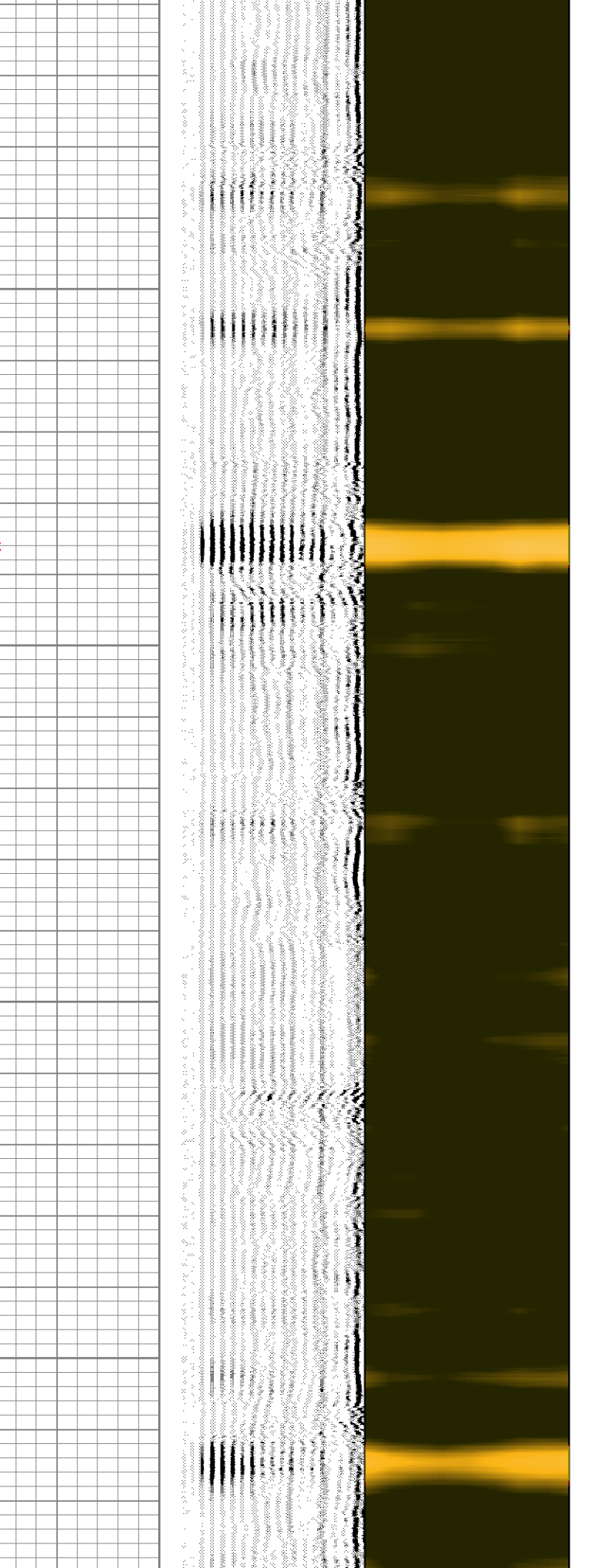
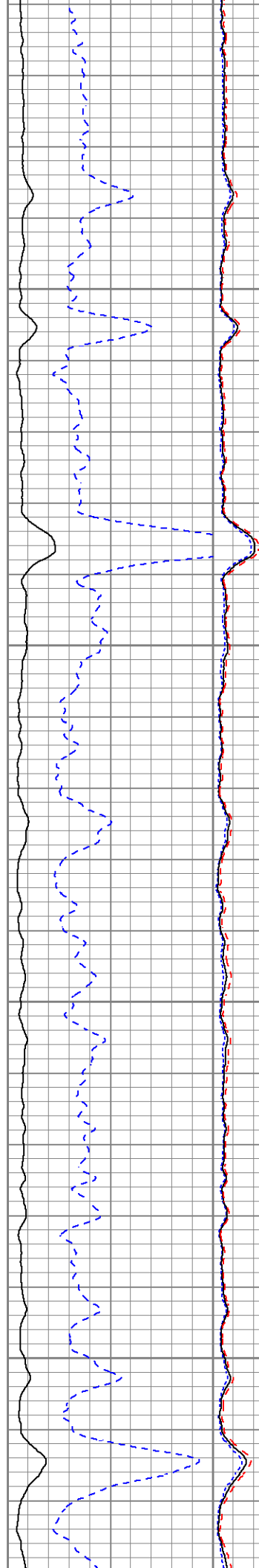


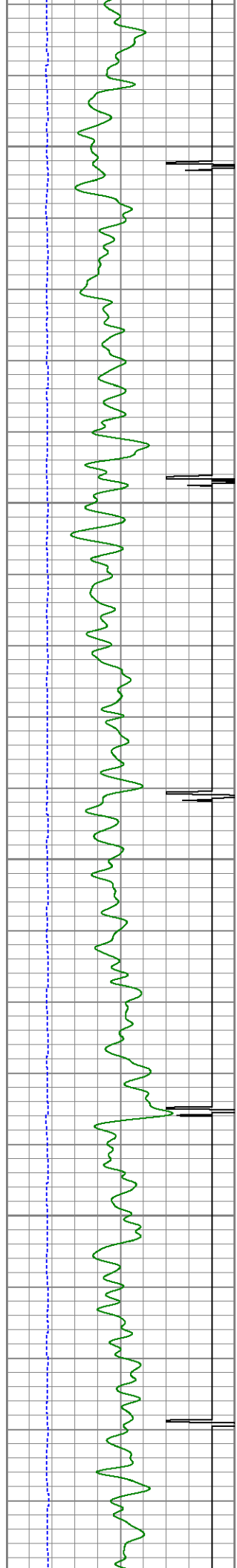
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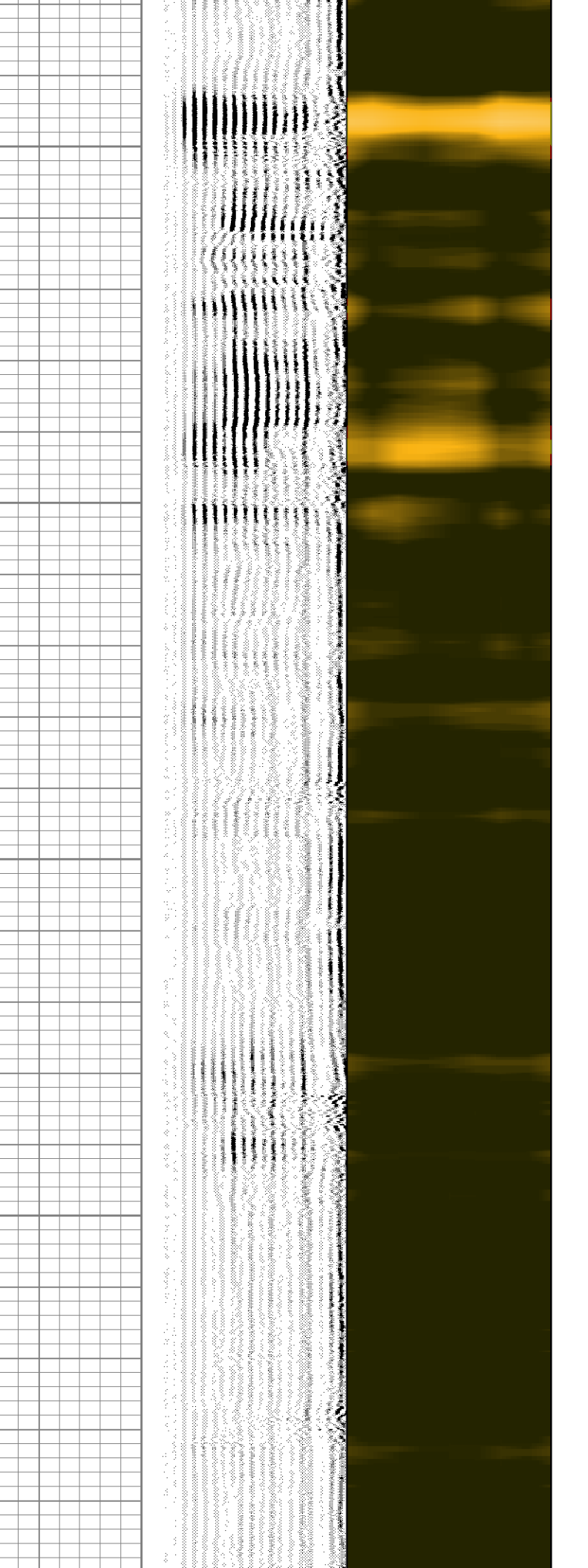
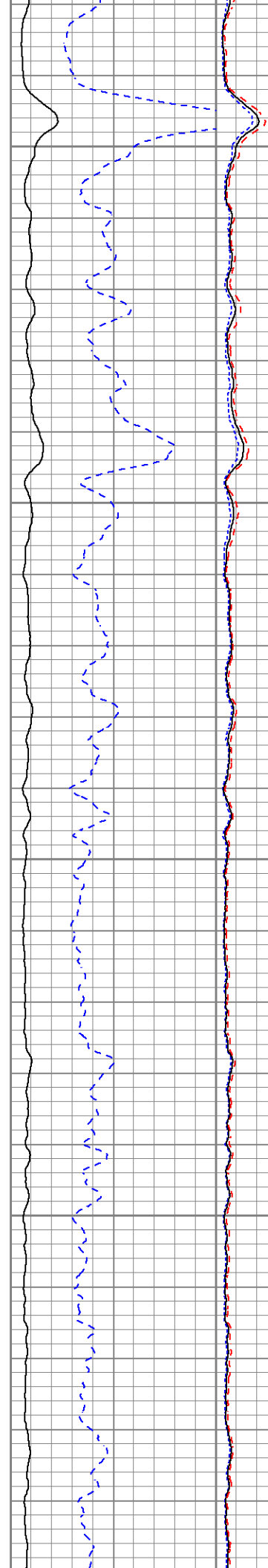
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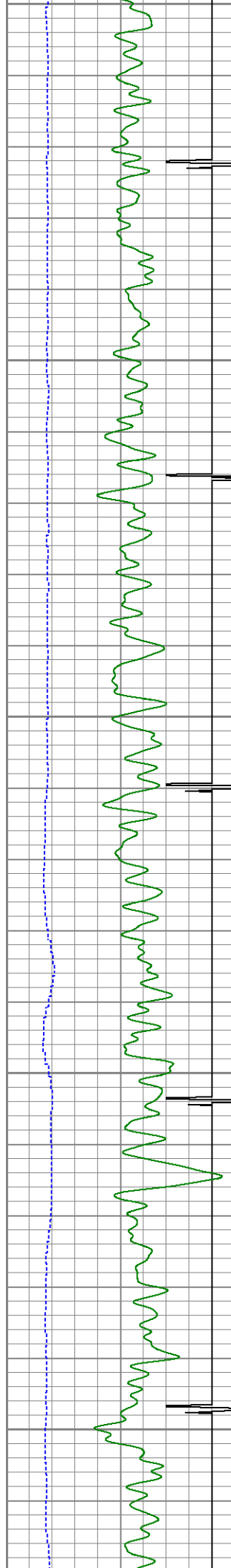
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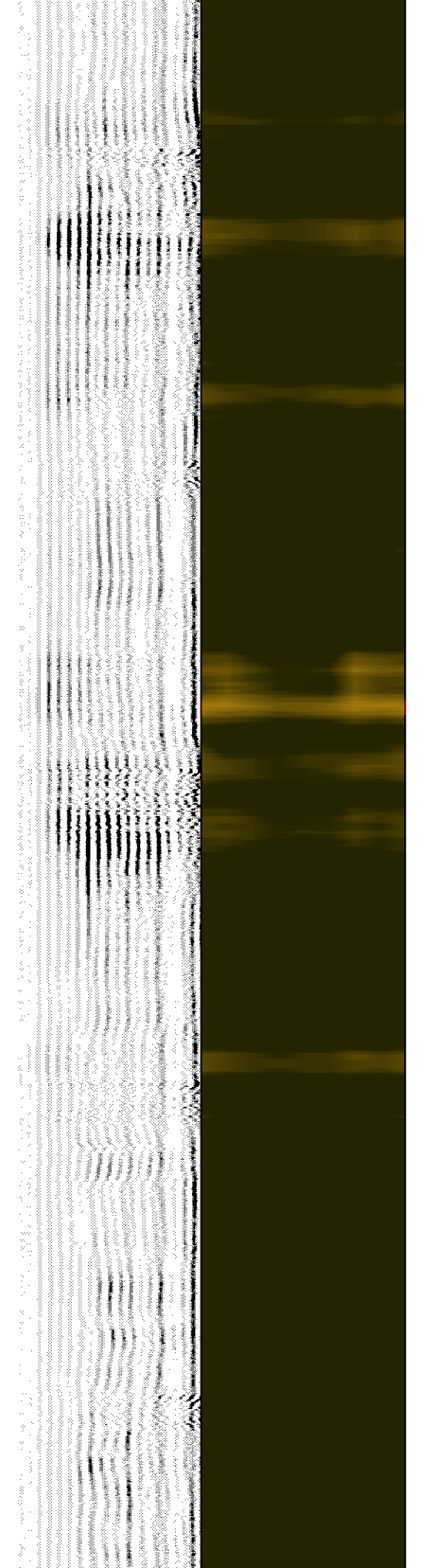
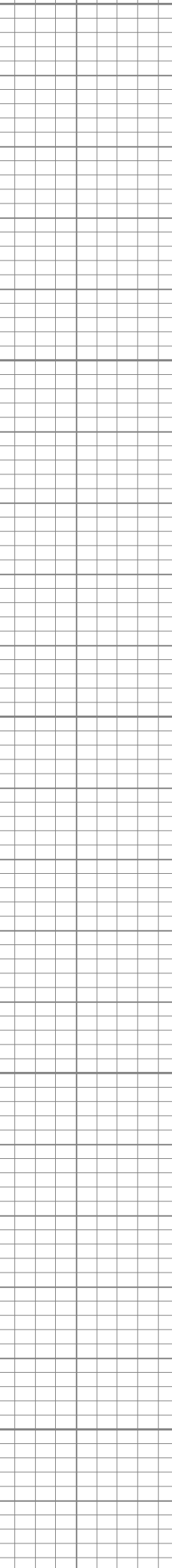
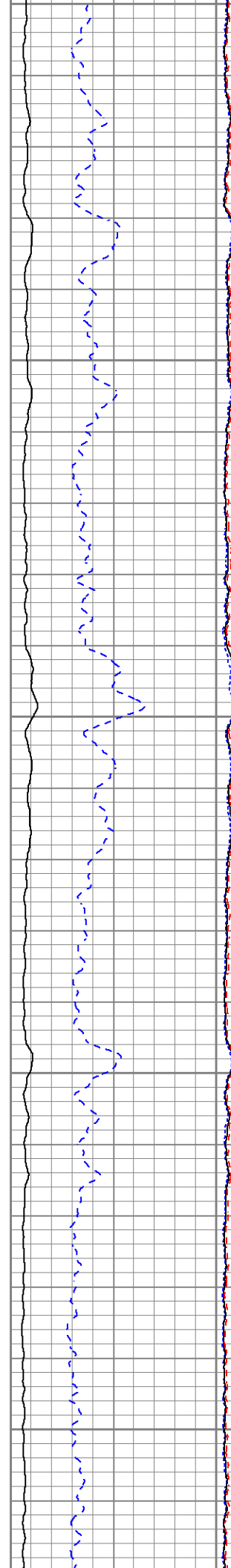
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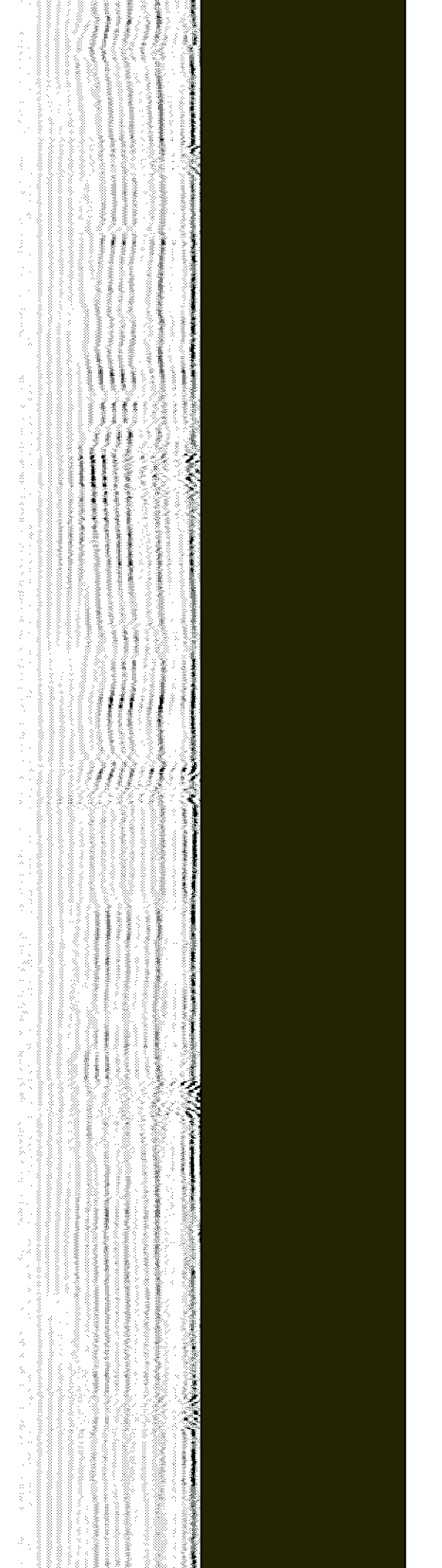
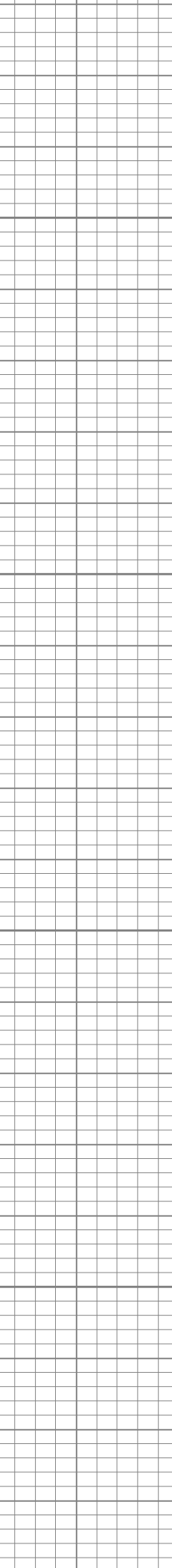
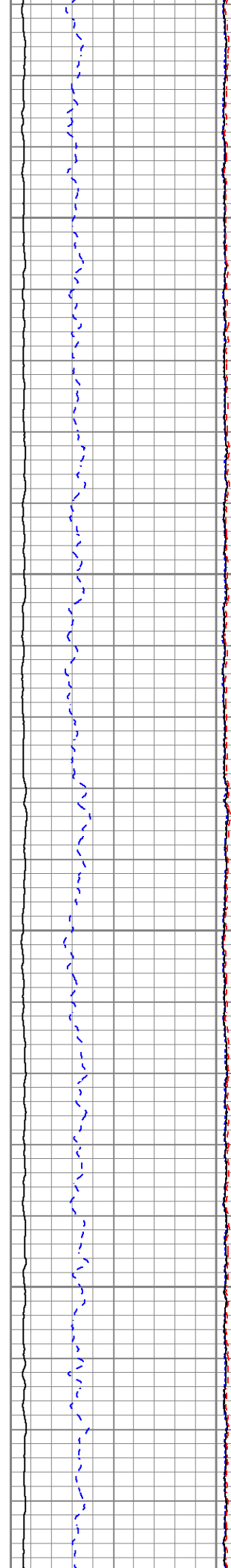
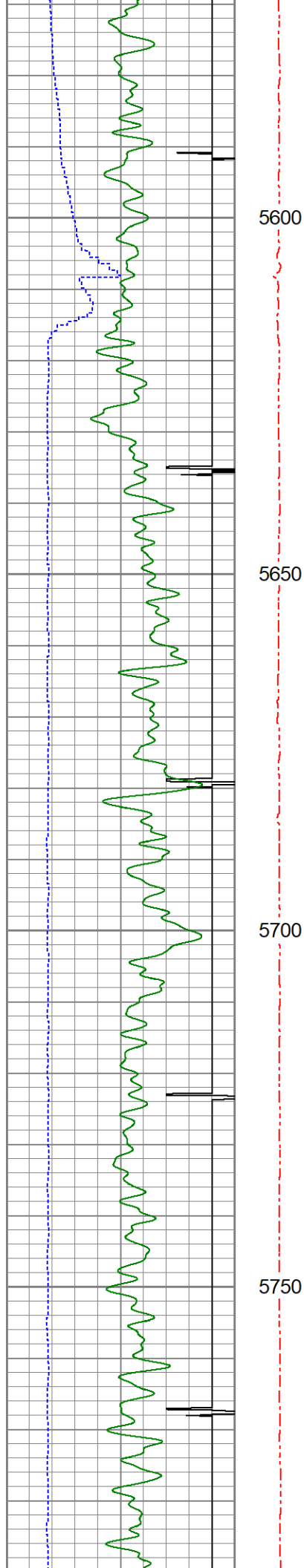
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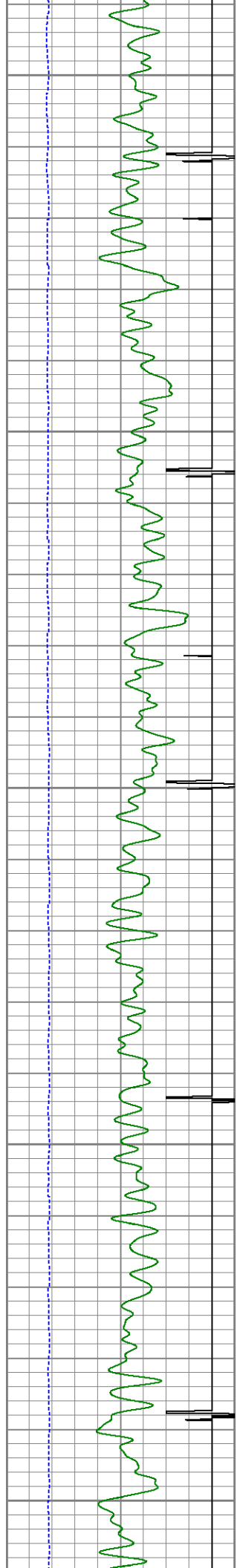




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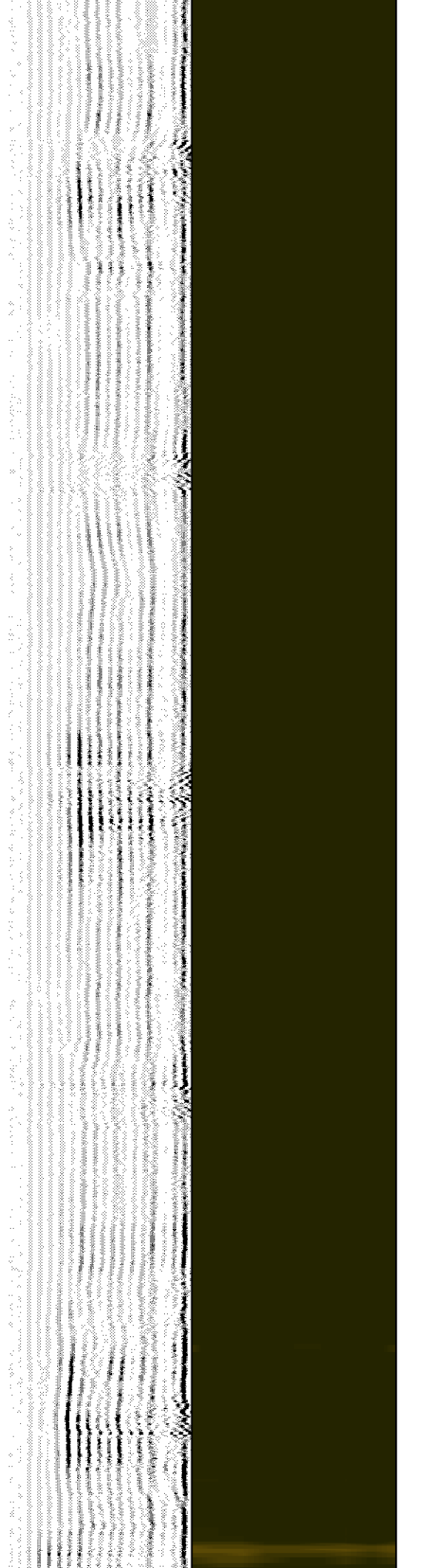
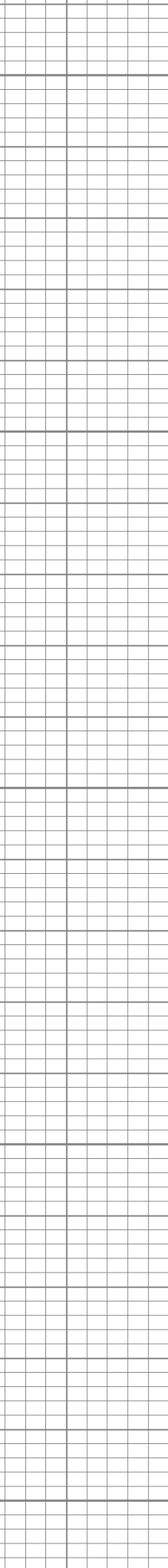
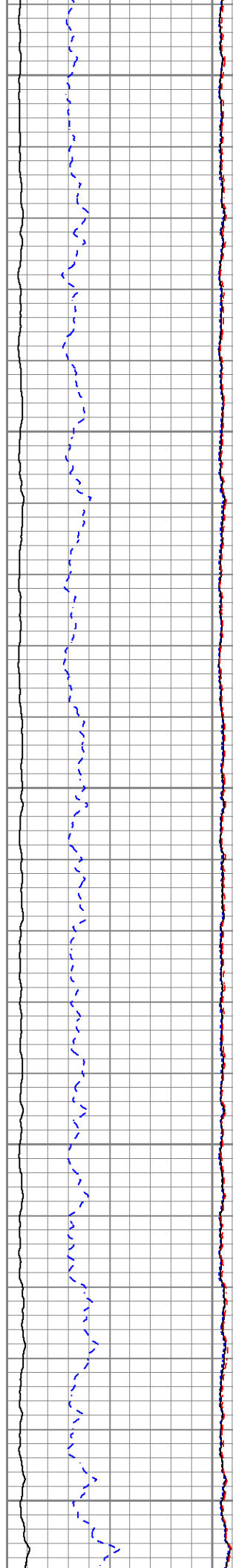
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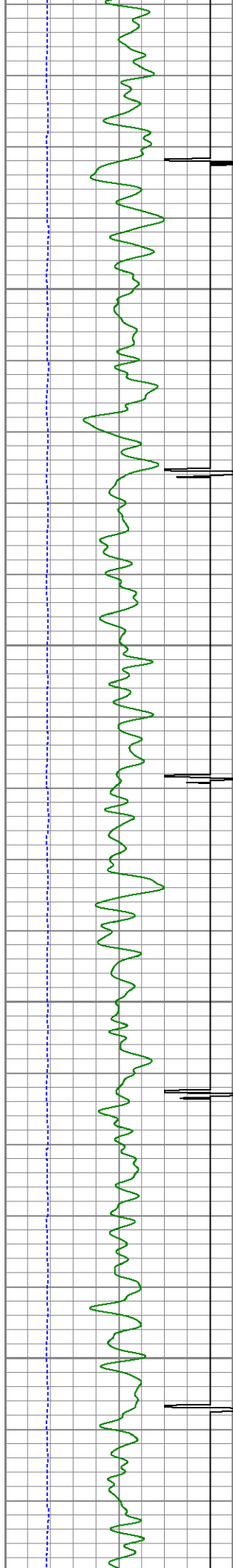
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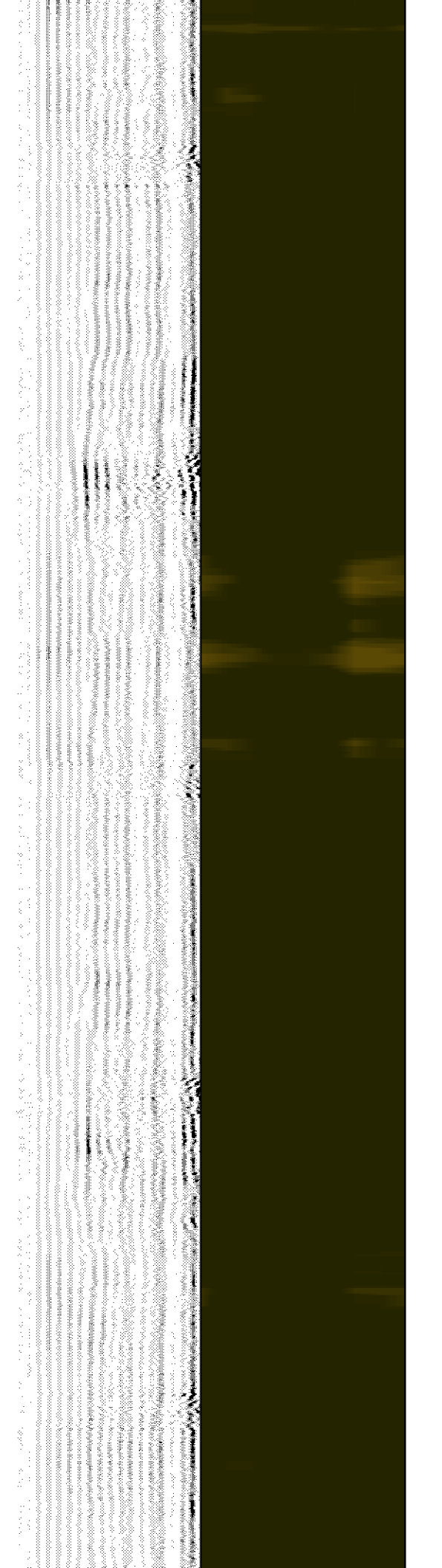
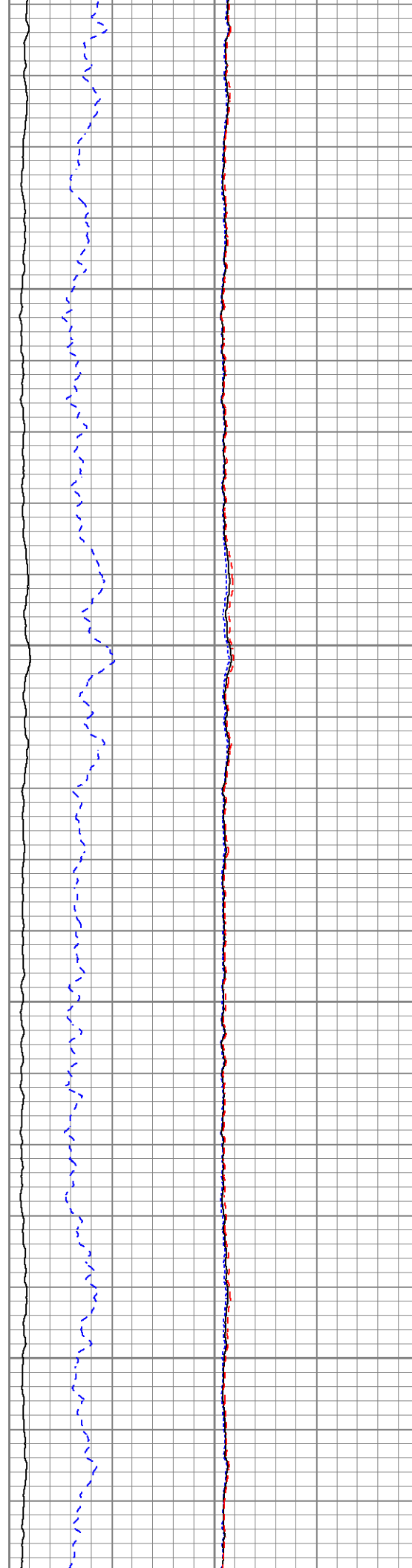


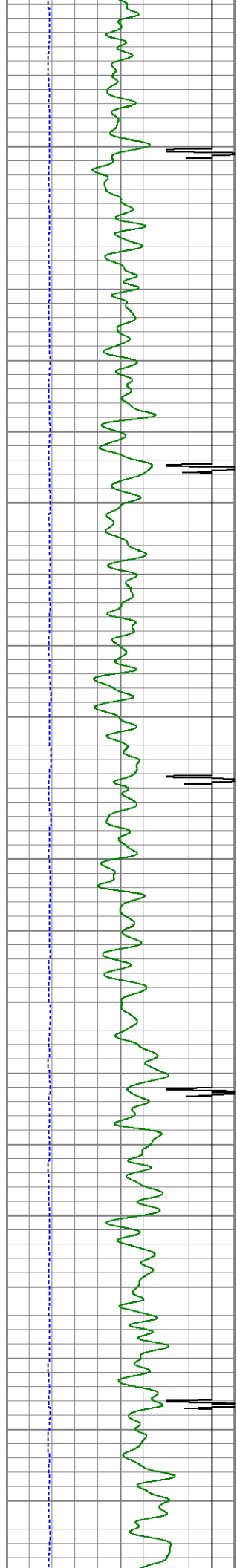
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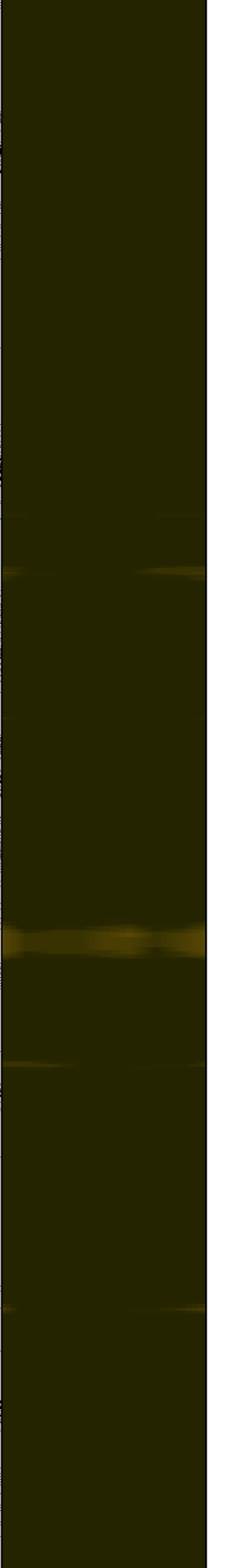
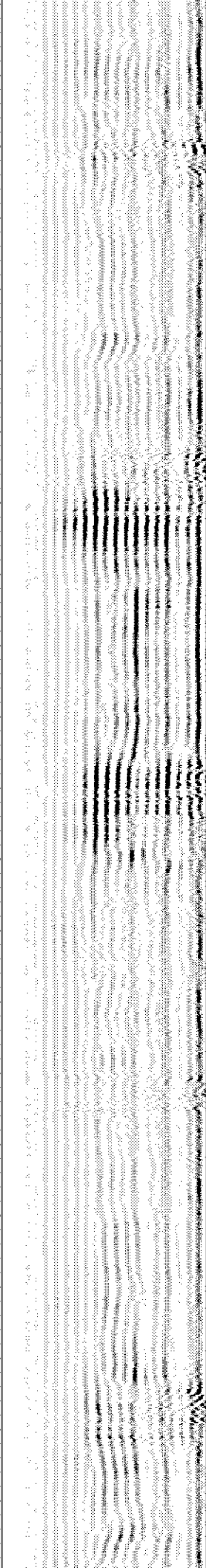
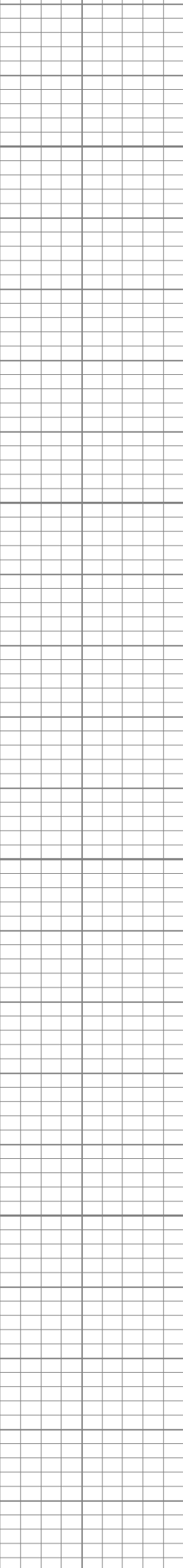
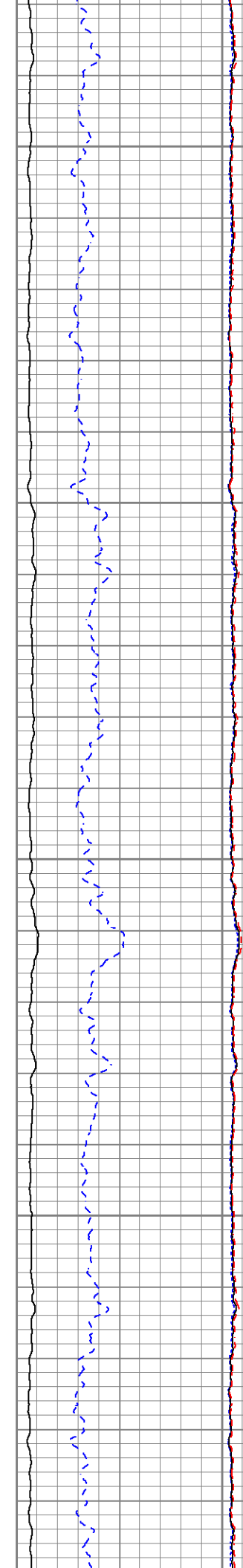
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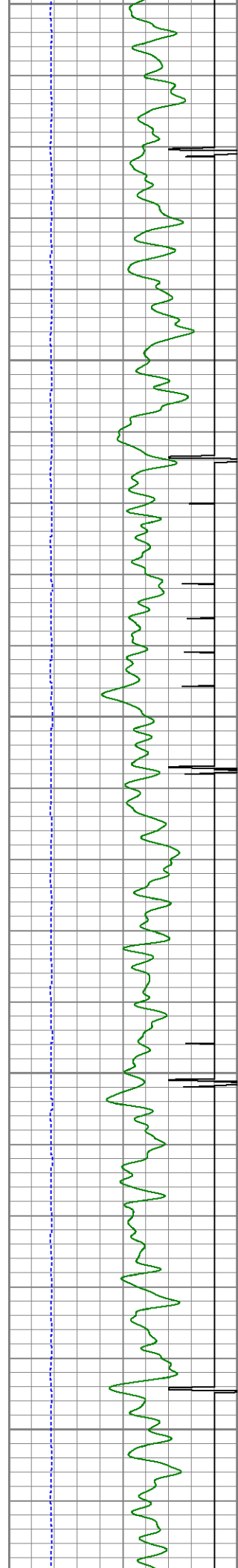
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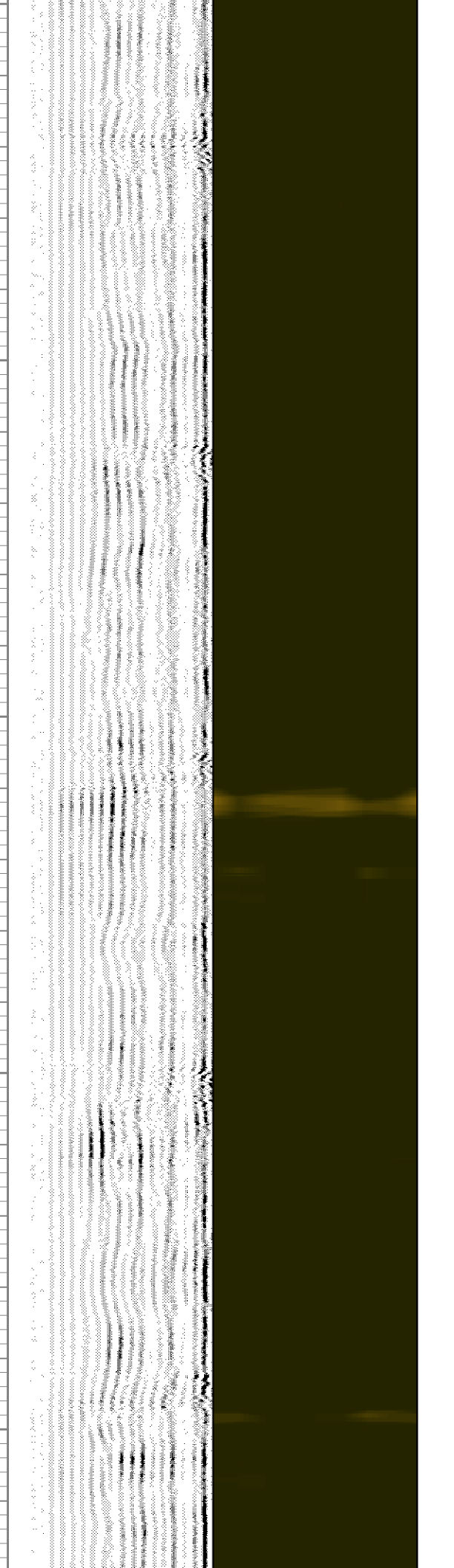
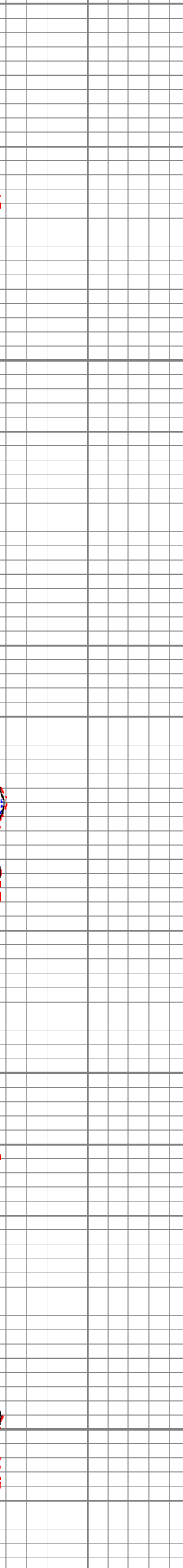
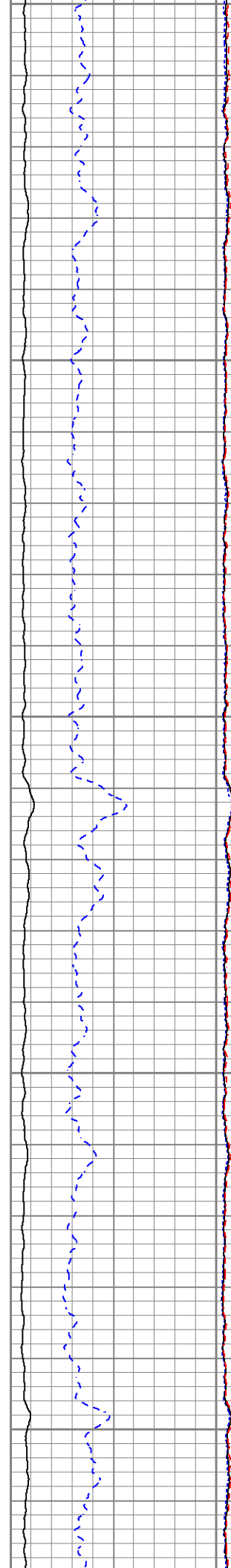
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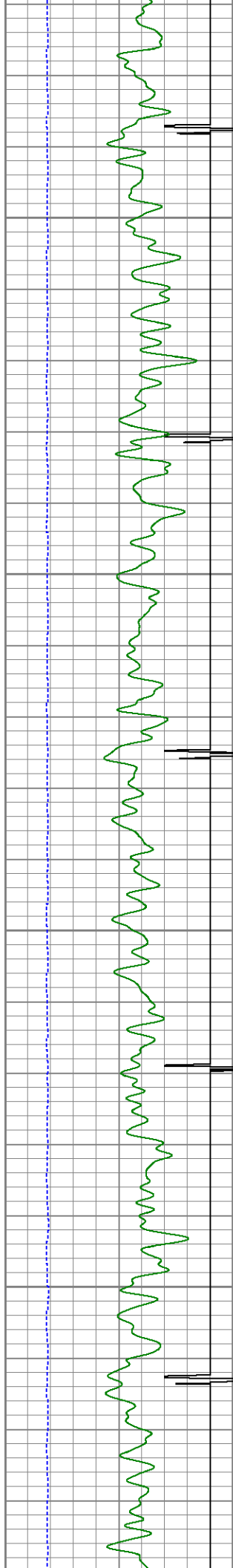
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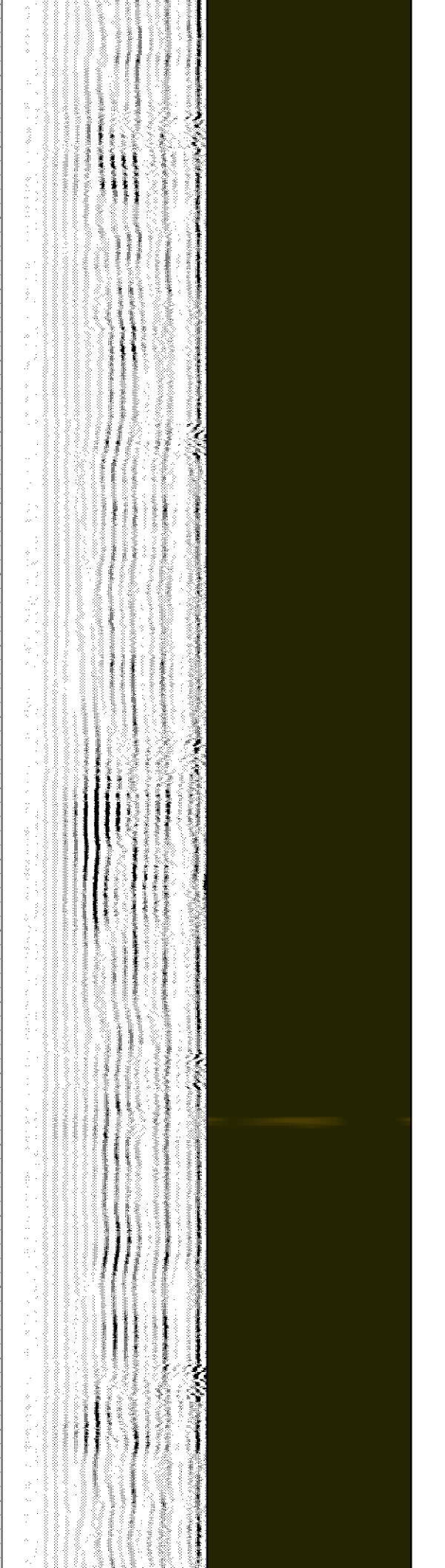
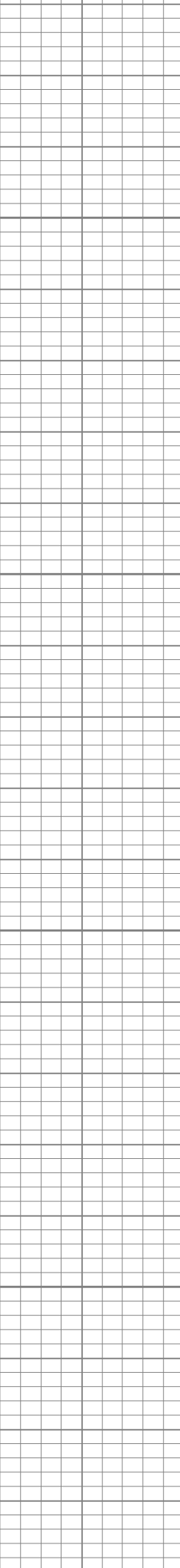
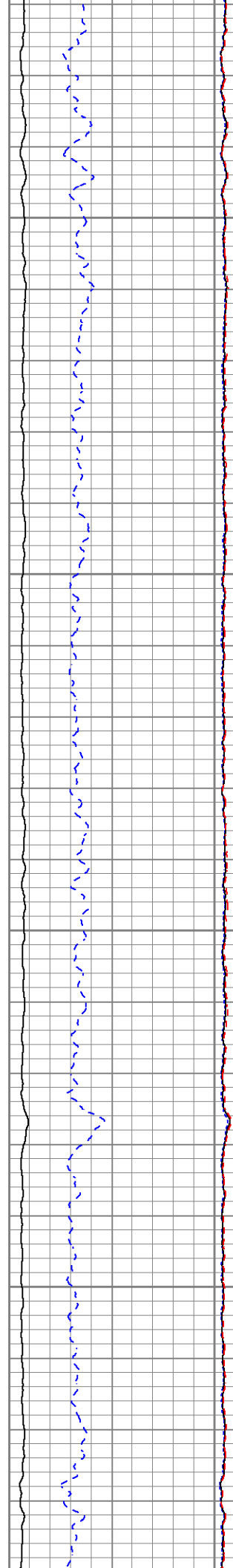


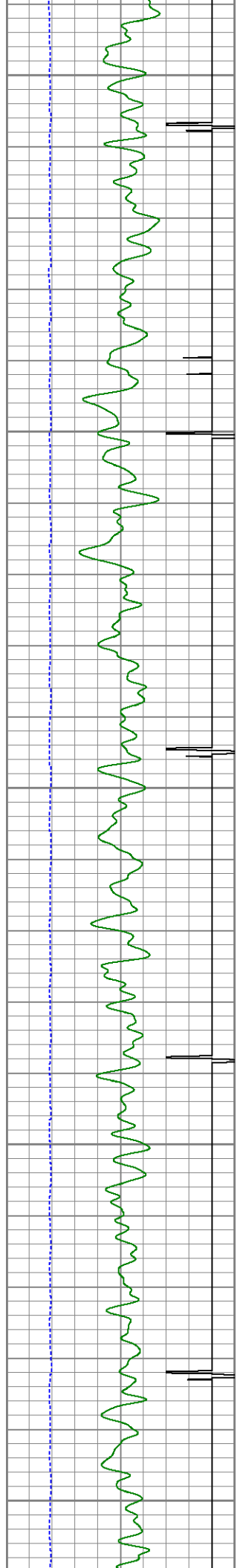
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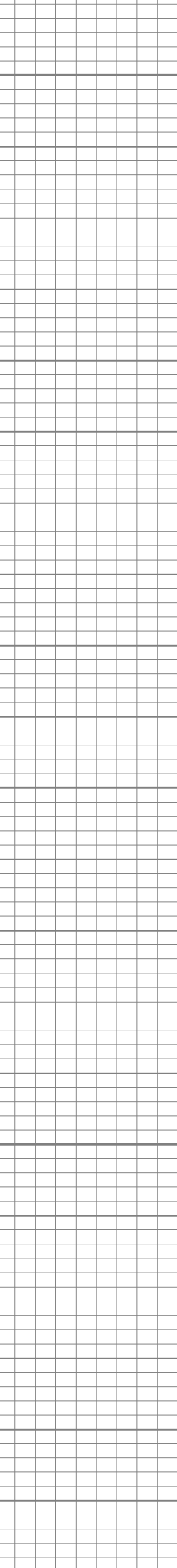
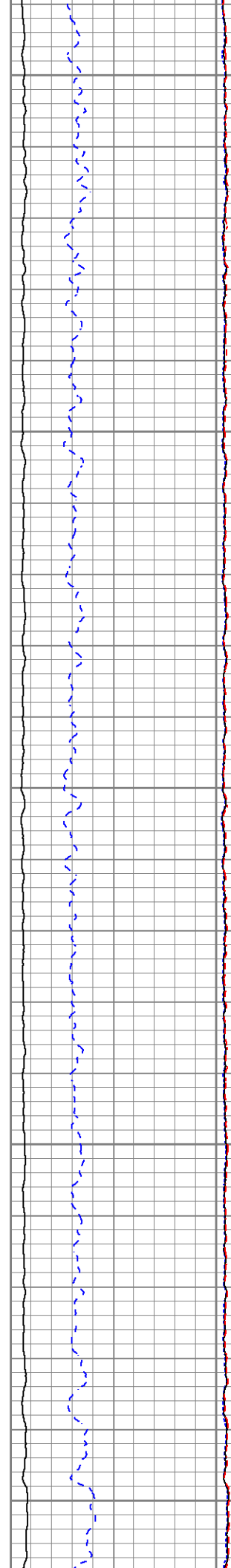
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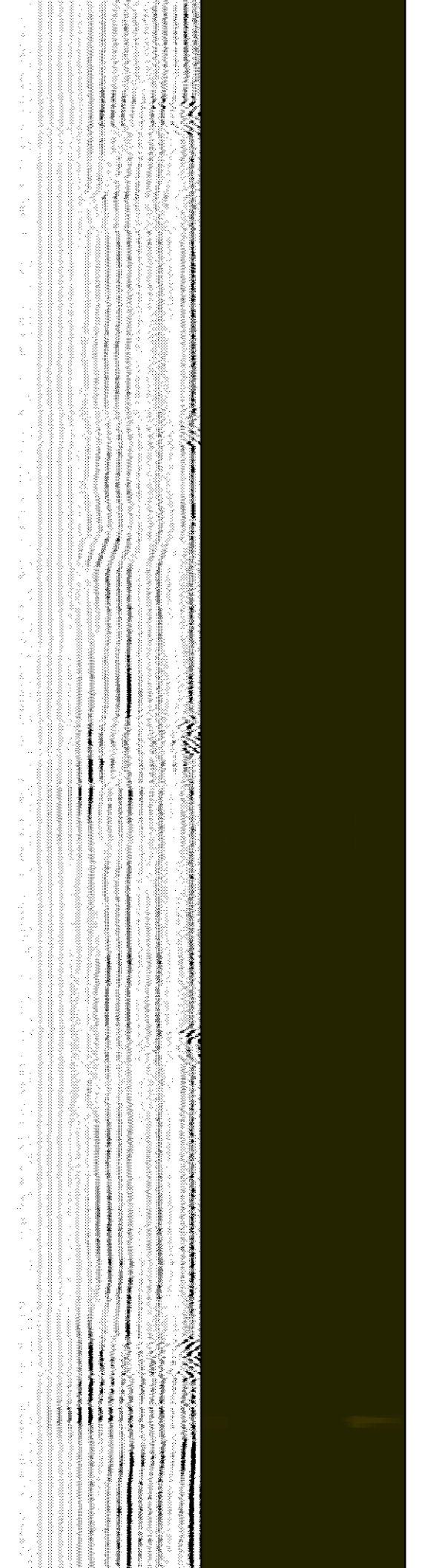
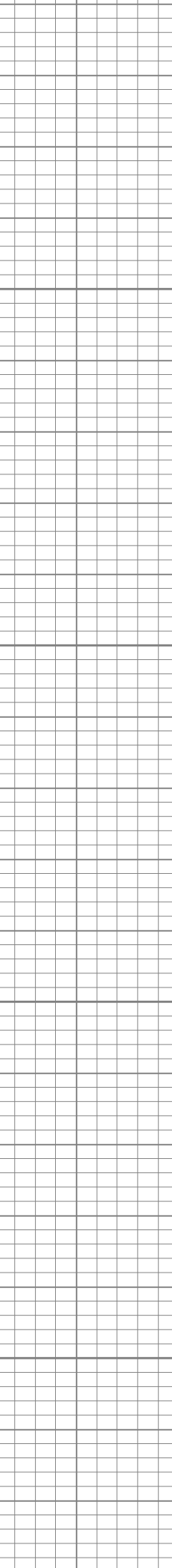
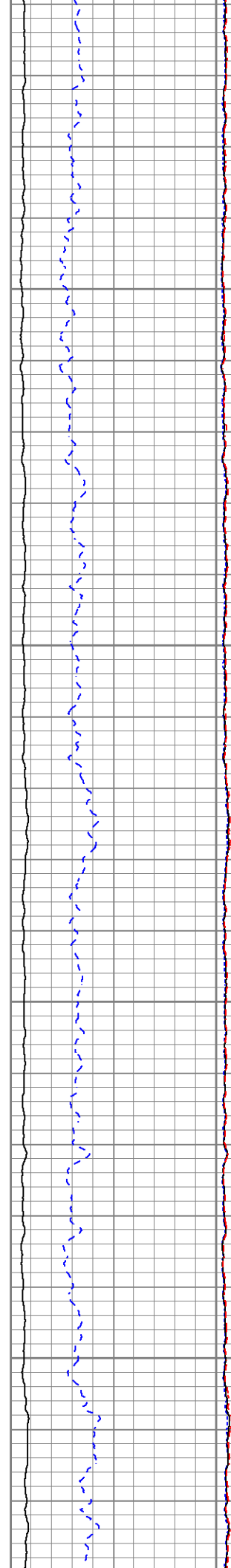
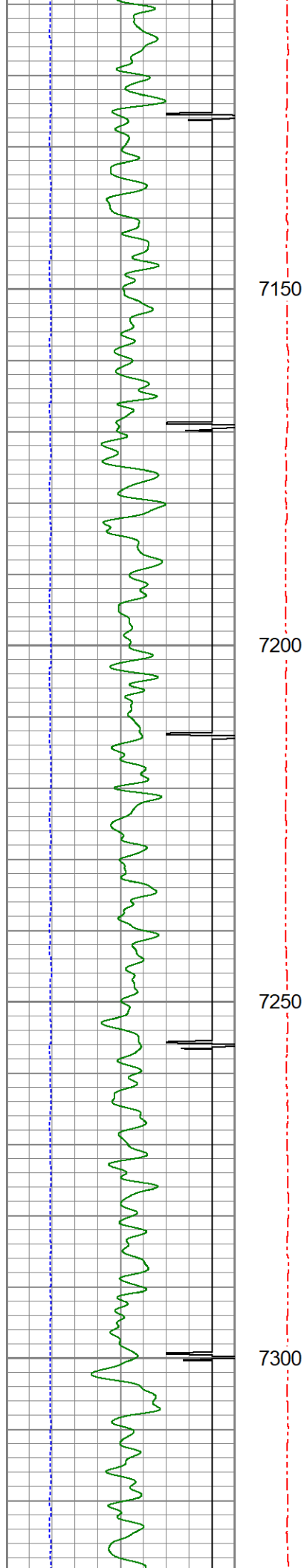
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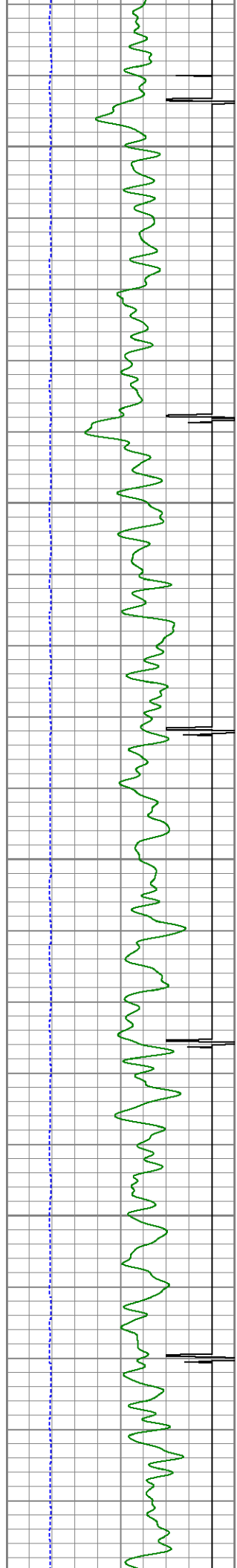
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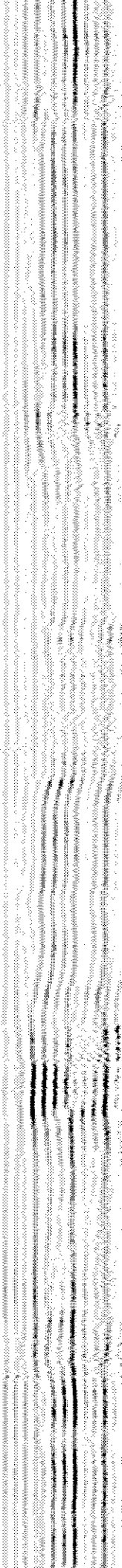
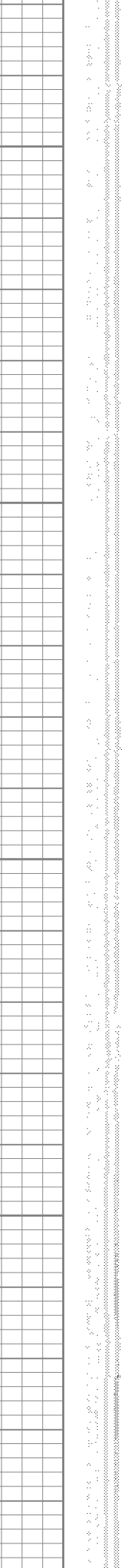
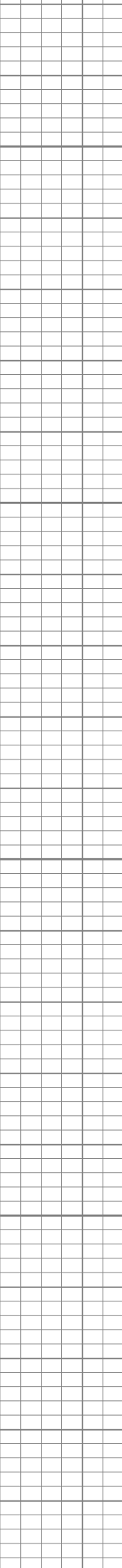
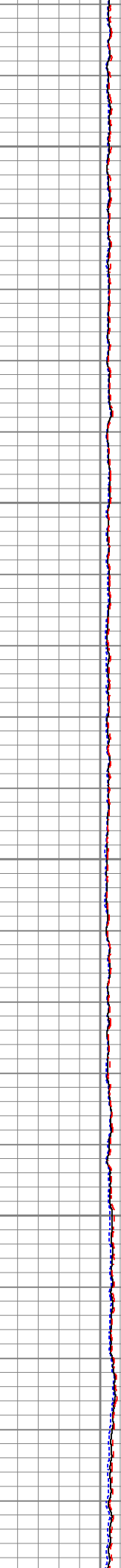
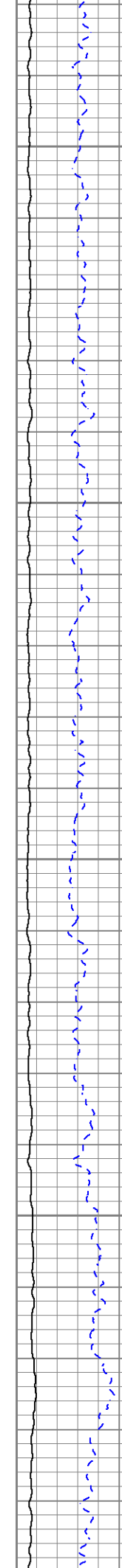
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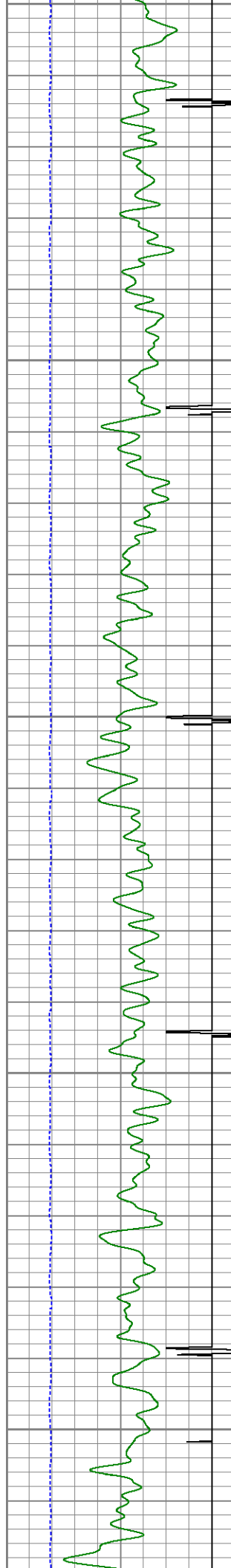
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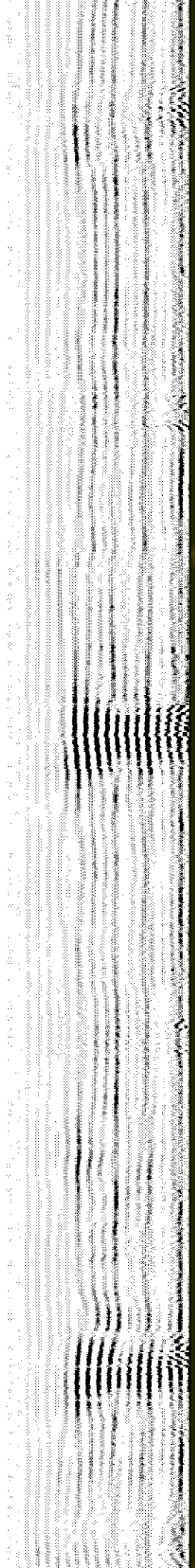
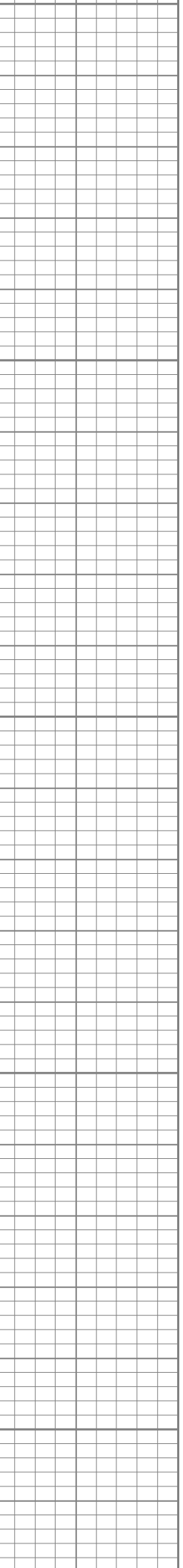
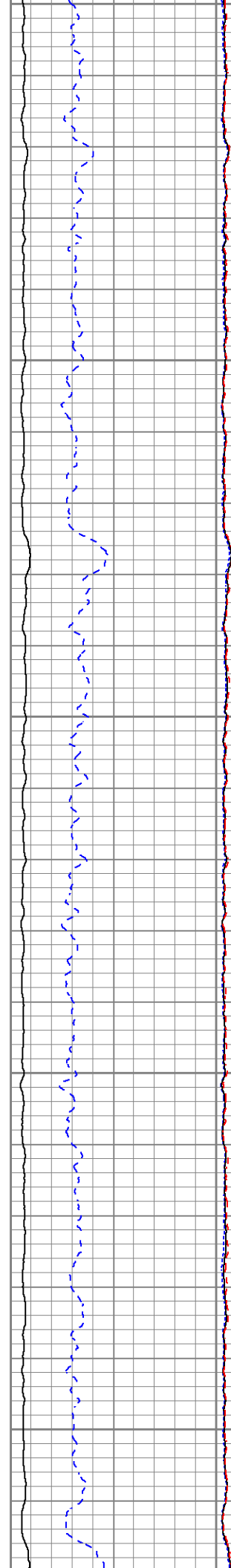
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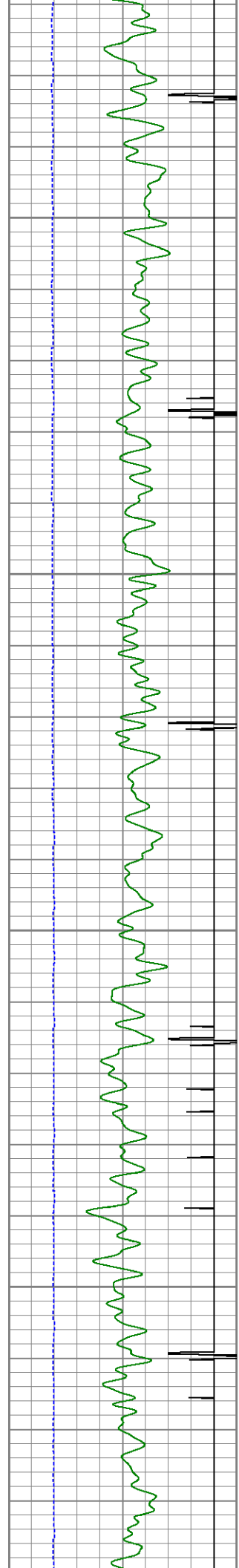
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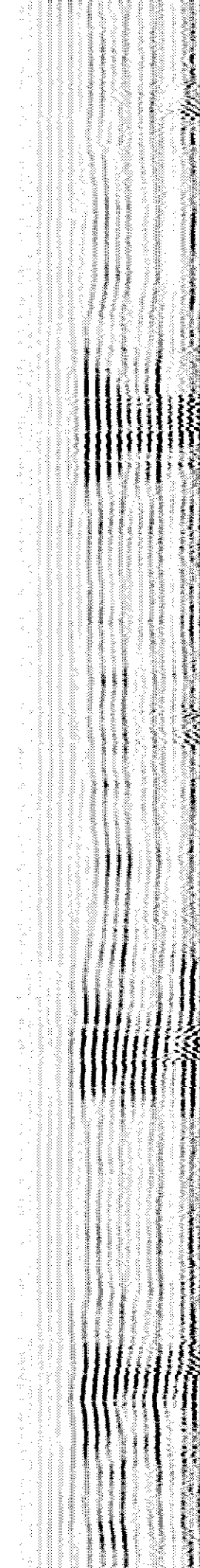
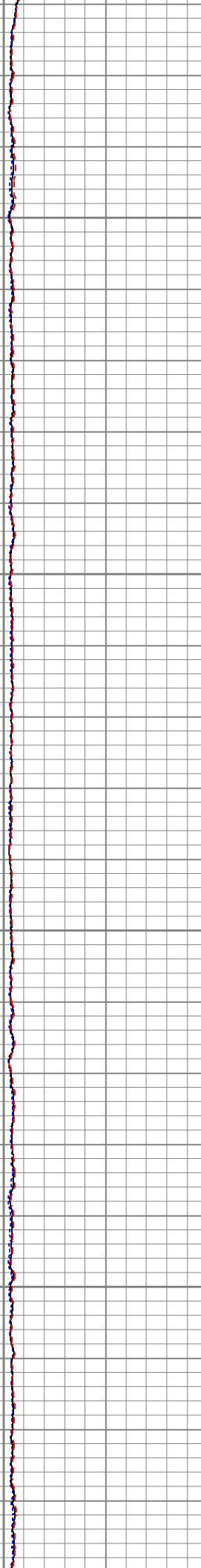
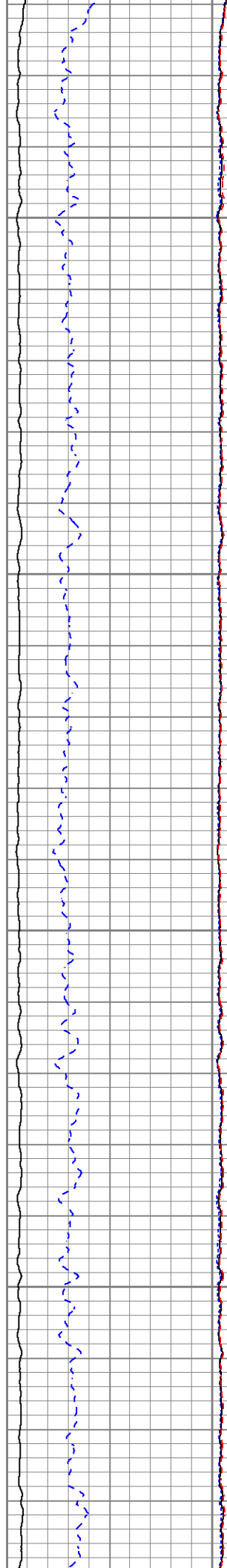


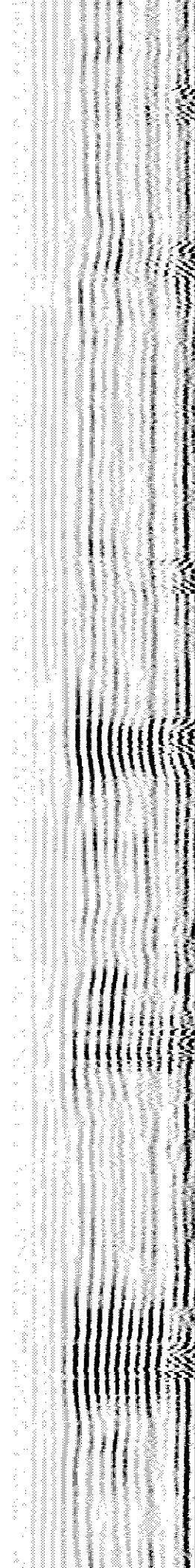
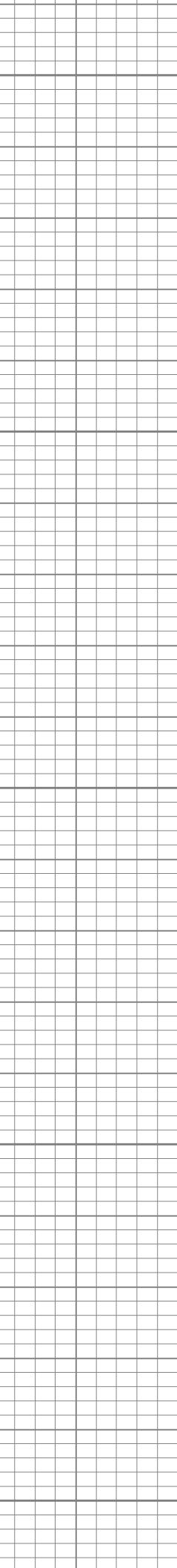
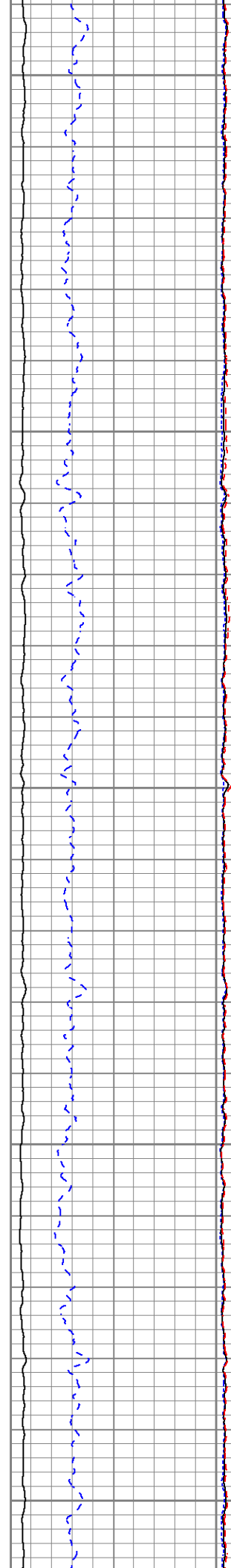
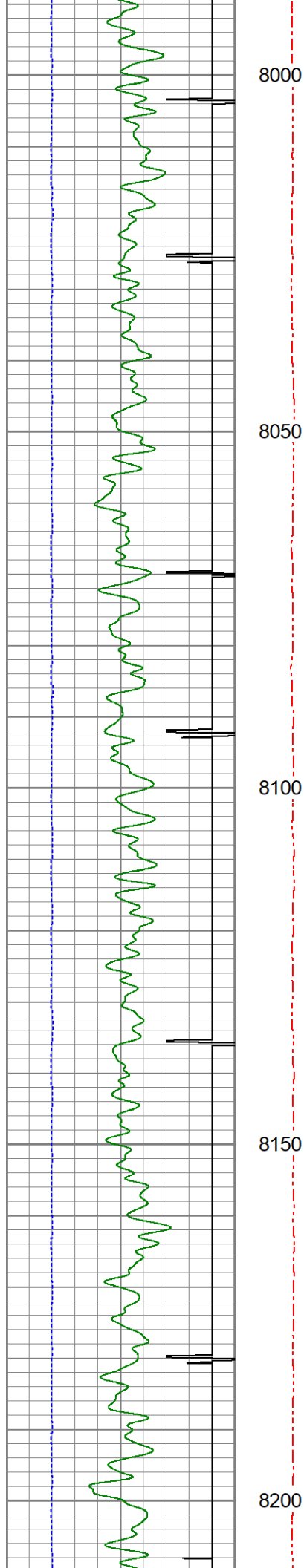
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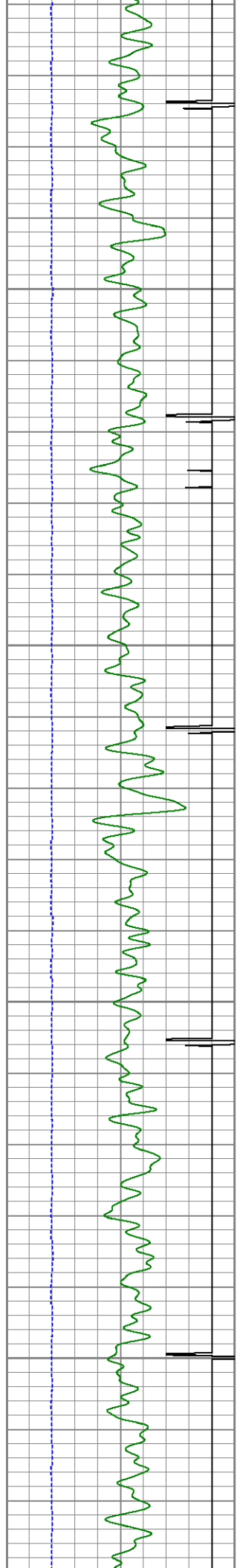
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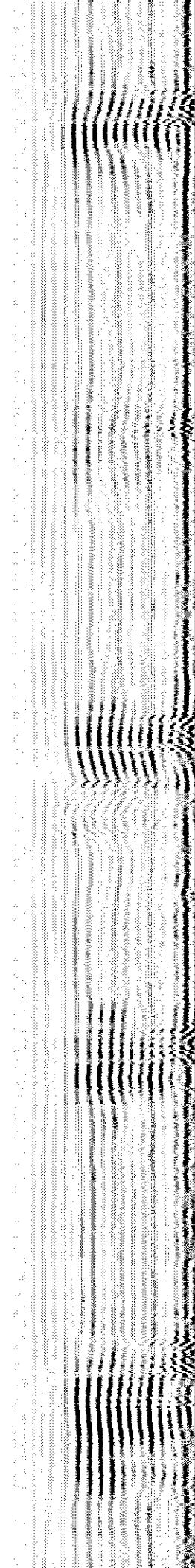
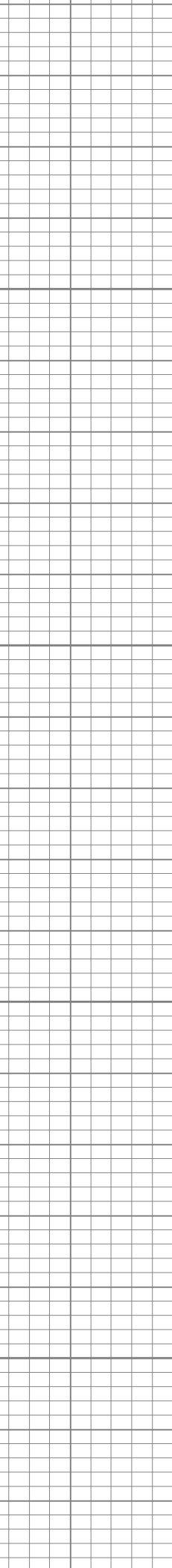
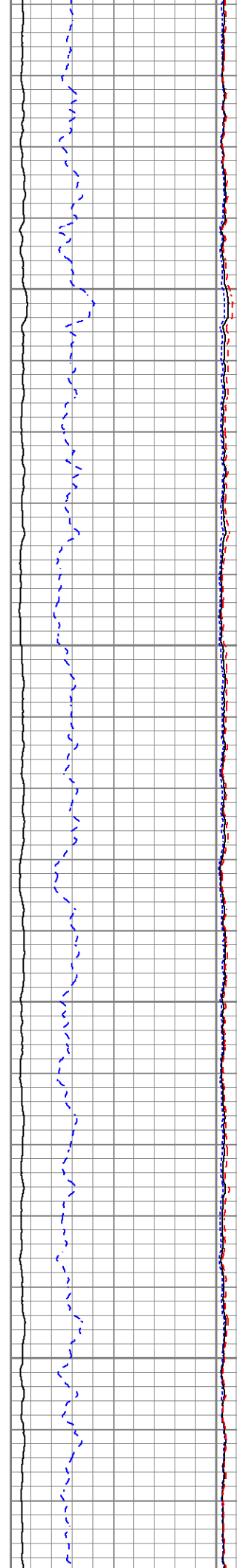


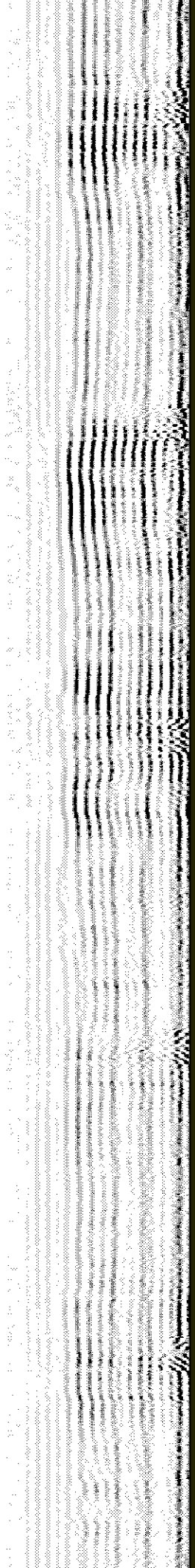
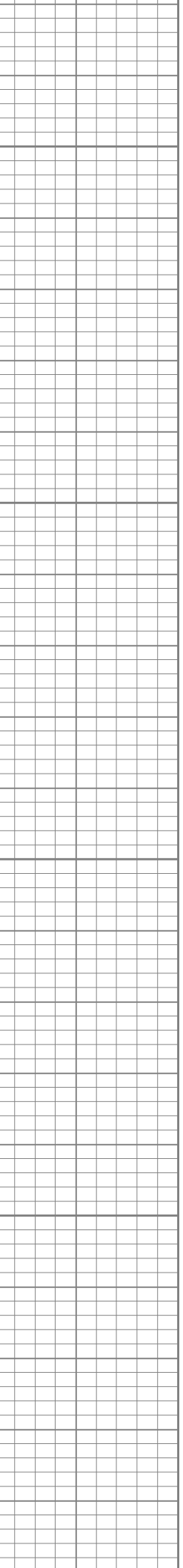
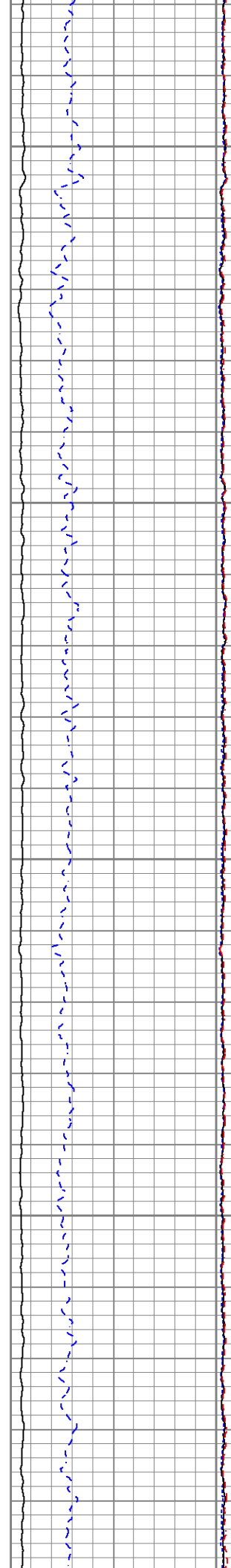
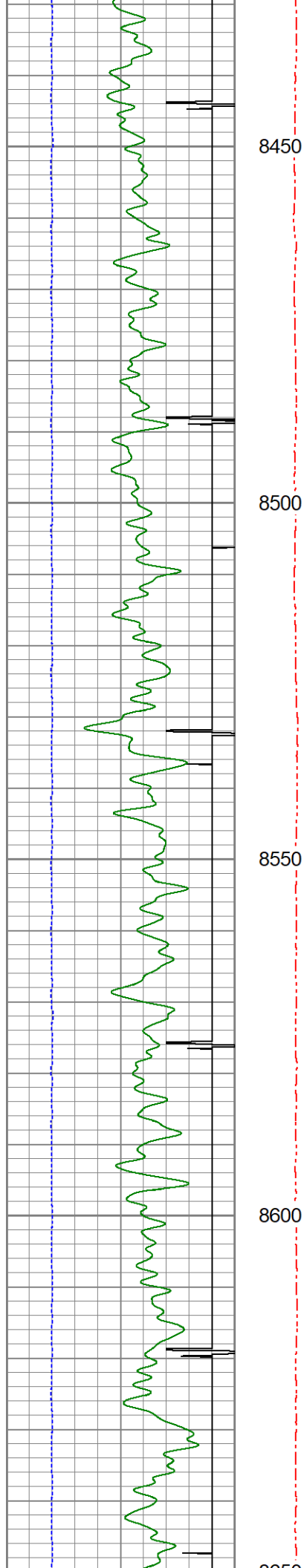
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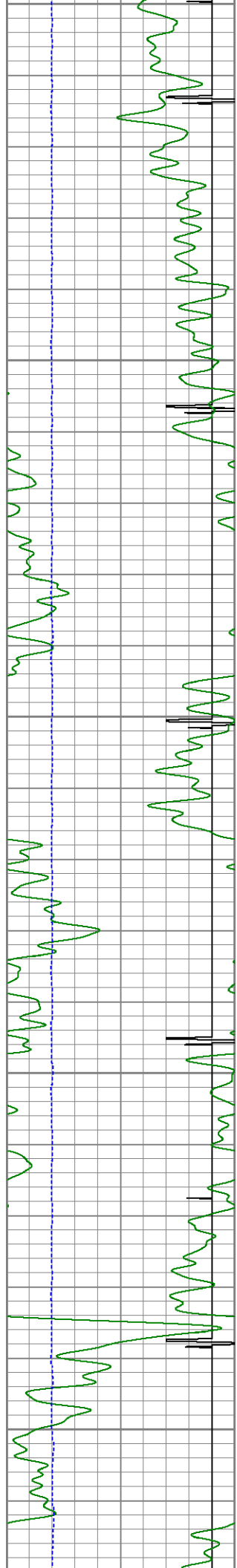
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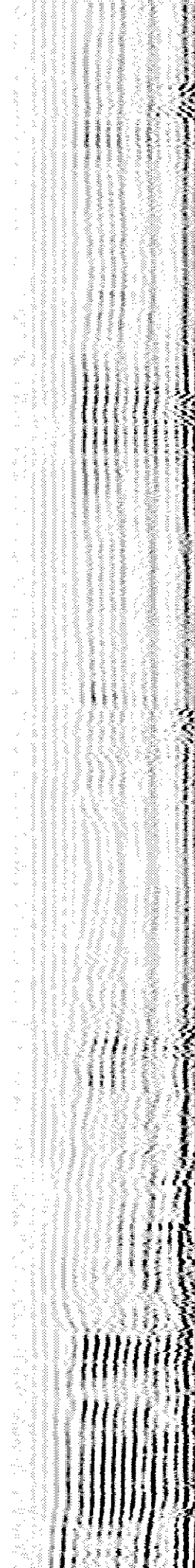
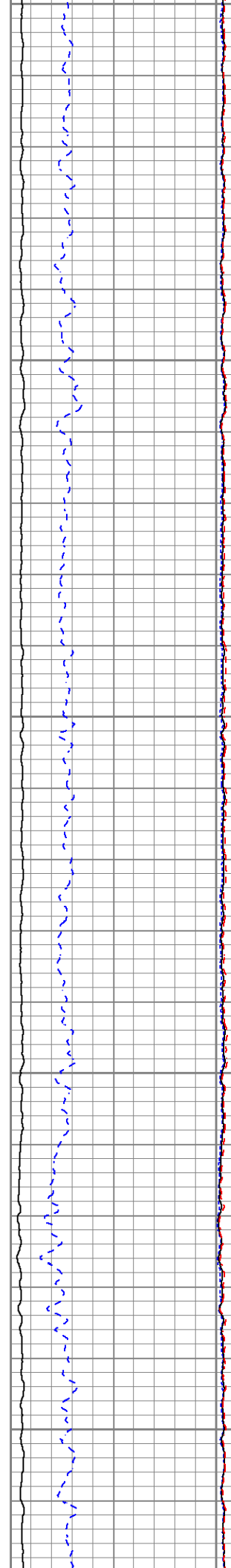
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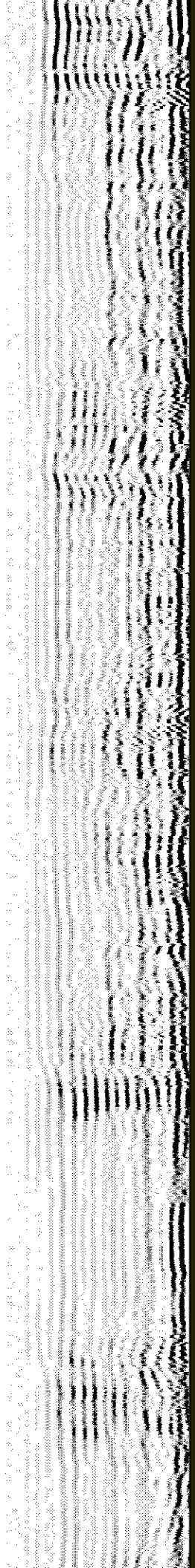
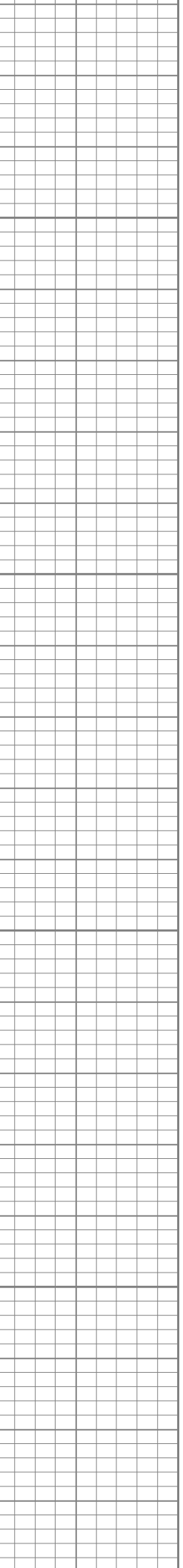
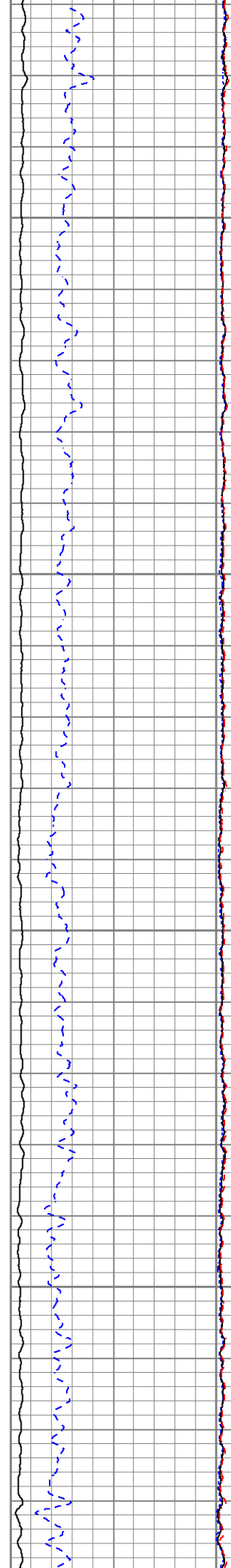
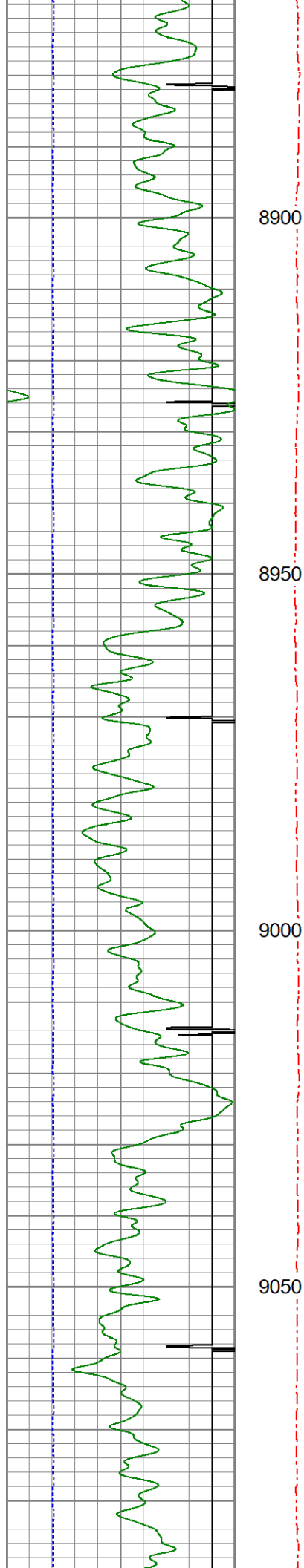


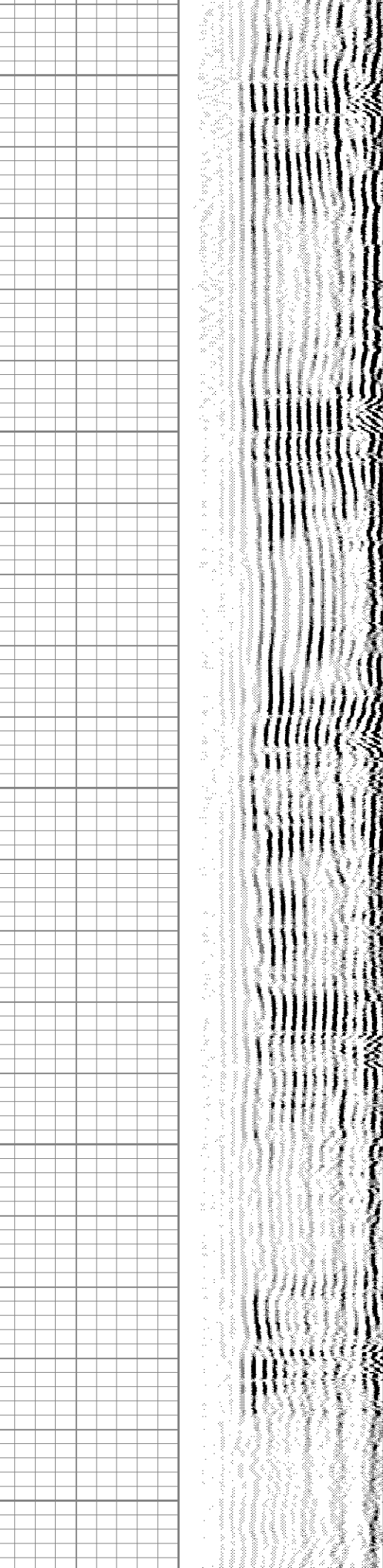
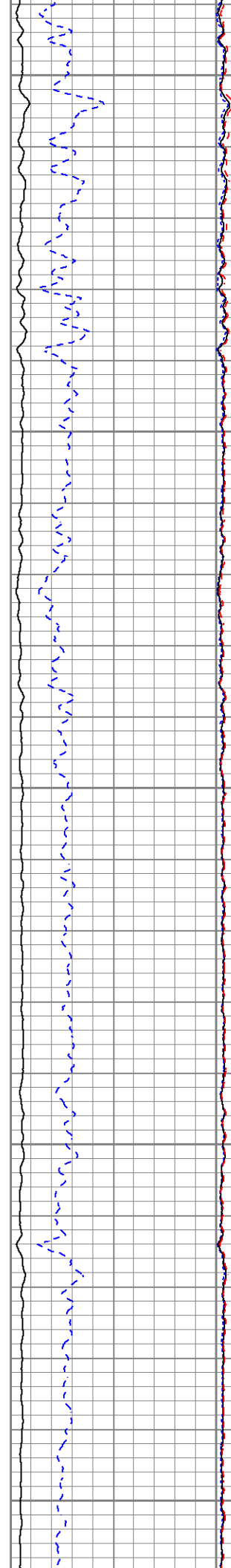
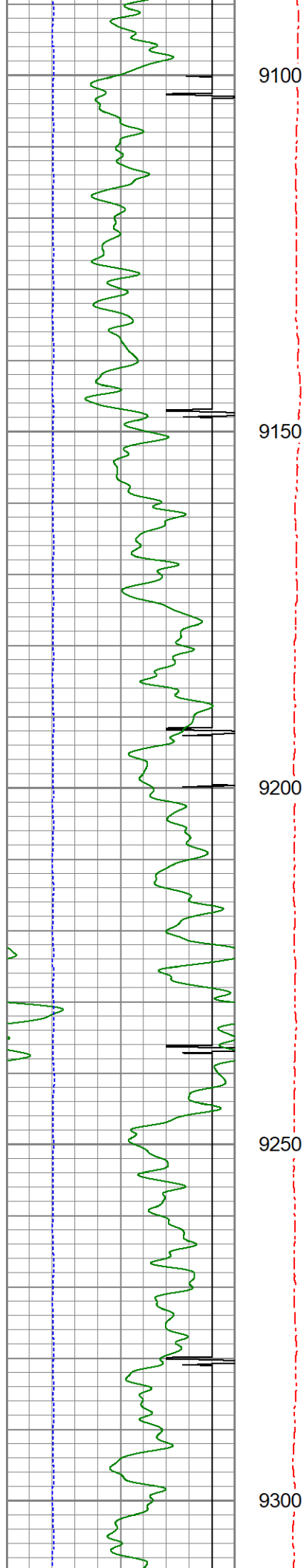


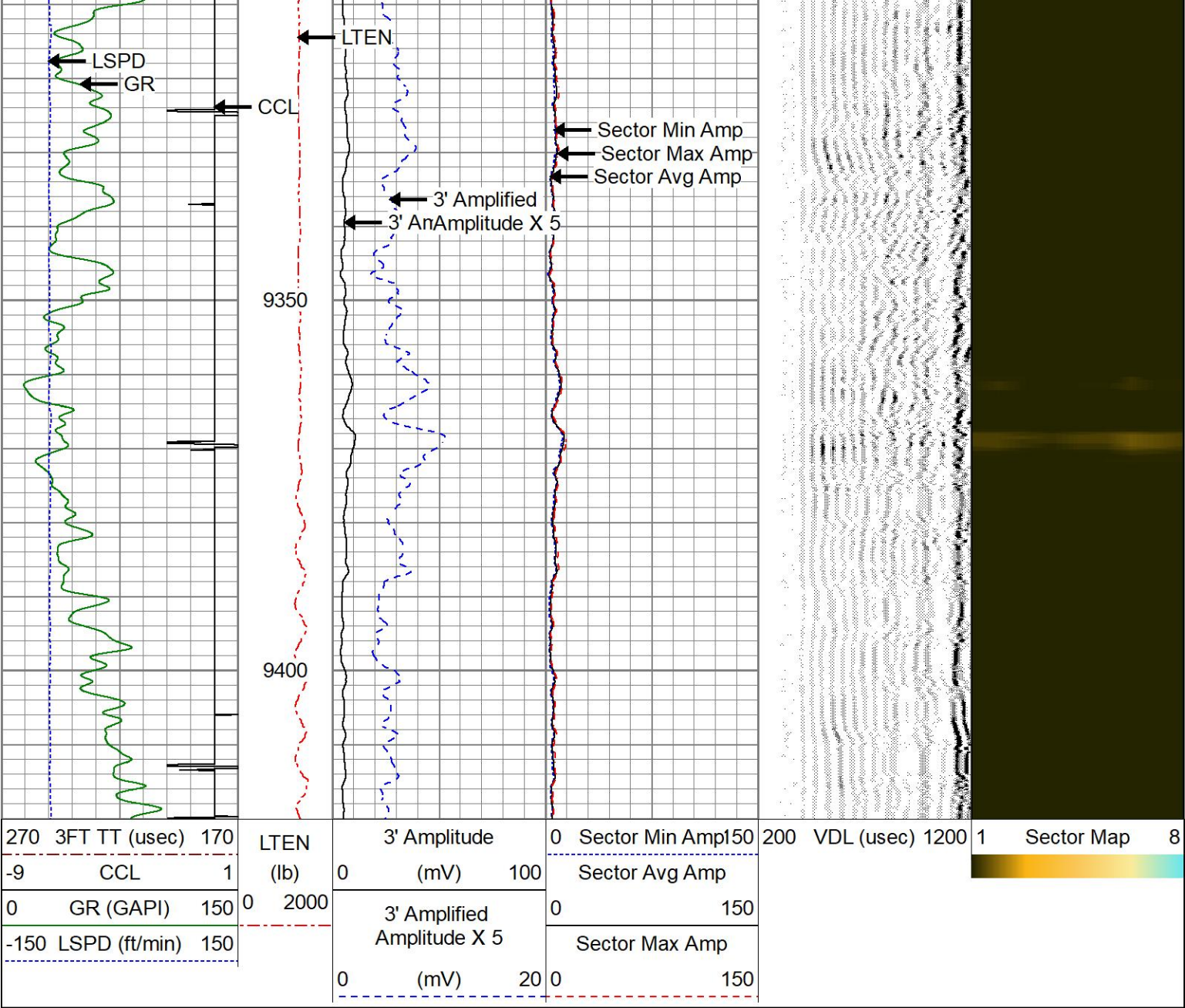


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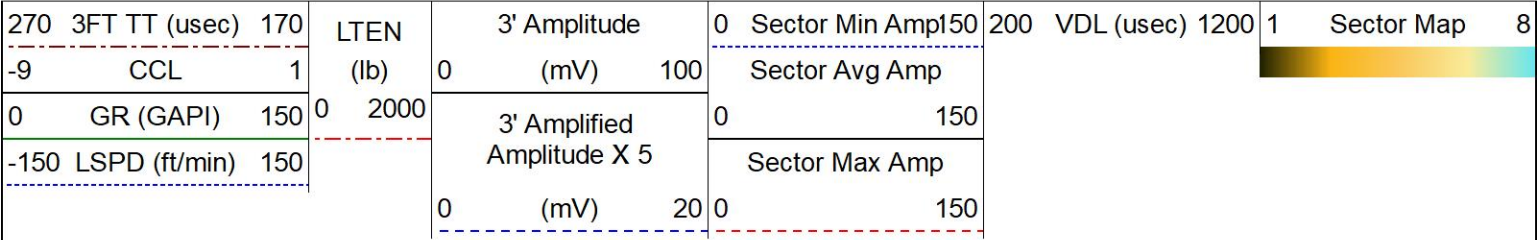


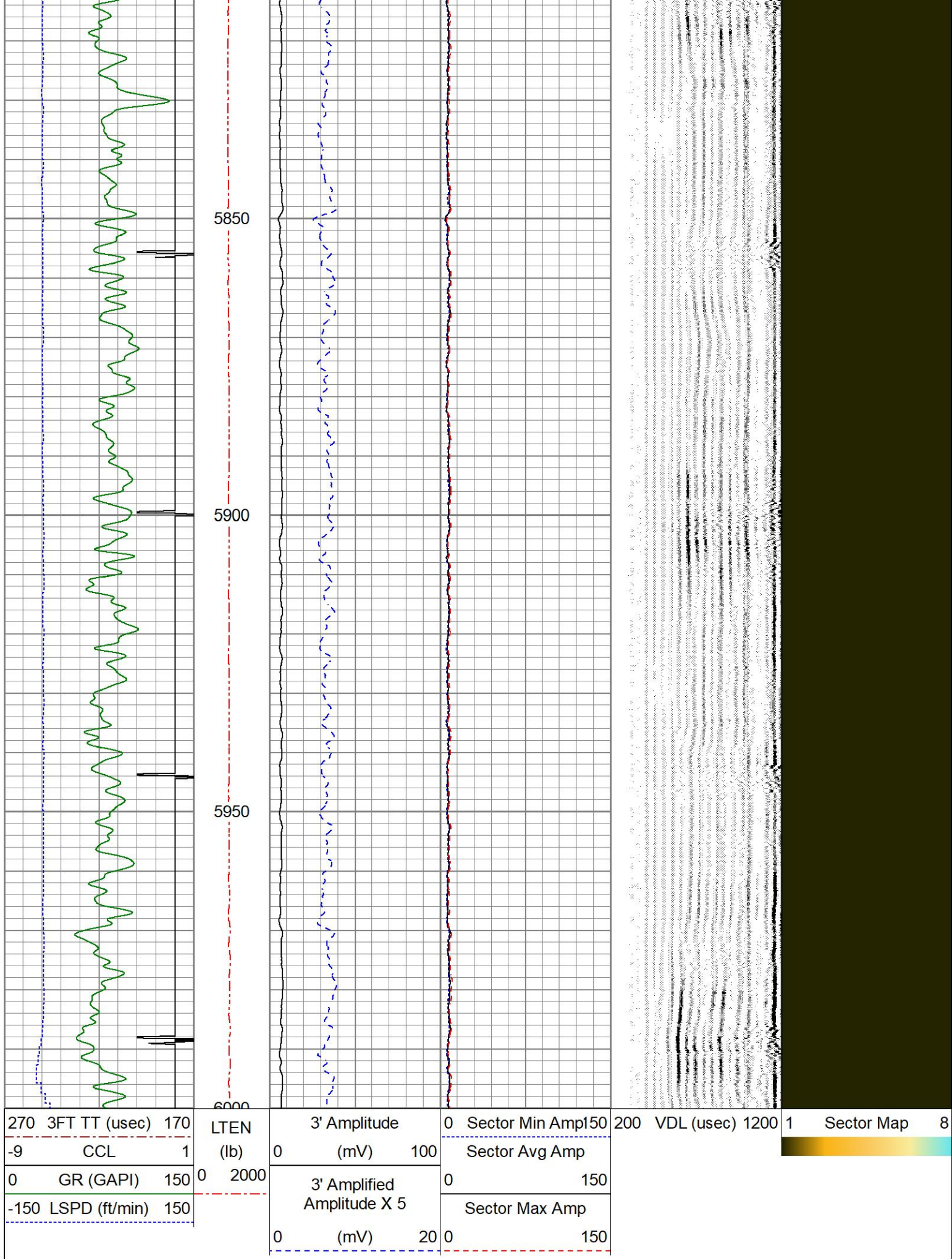


REPEAT PASS

2000 PSI APPLIED AT SURFACE

Database File	d:\fox creek logs\bisonivoperating_foxcreek12-6325-23-4_0512350373_20241109_scbl\bisonivoperating_f
Dataset Pathname	pass2.1
Presentation Format	res_scbl 8sec-gr-ccl
Dataset Creation	Sat Nov 09 17:03:56 2024
Charted by	Depth in Feet scaled 1:240





Database File		d:\fox creek logs\bisonivoperating_foxcreek12-6325-23-4_0512350373_20241109_scbl\bisonivoperating_fox				
Dataset Pathname		pass4.1				
Dataset Creation		Sat Nov 09 16:53:19 2024				
Gamma Ray Calibration Report						
Serial Number:		071129				
Tool Model:		Probe275dig				
Performed:		Fri Feb 17 12:54:09 2023				
Calibrator Value:		1.0	GAPI			
Background Reading:		0.0	cps			
Calibrator Reading:		1.0	cps			
Sensitivity:		0.8500	GAPI/cps			
Segmented Cement Bond Log Calibration Report						
Serial Number:		080114				
Tool Model:		RBTC3				
Calibration Casing Diameter:		5.500	in			
Calibration Depth:		79.175	ft			
Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	1.184	2.200	71.921	59.016	2.059
CAL	-0.003	1.034				
5'	0.001	1.192	2.200	71.921	58.534	2.169
SUM						
S1	0.003	1.104	0.000	100.000	90.857	-0.284
S2	0.001	1.260	0.000	100.000	79.466	-0.101
S3	-0.009	1.294	0.000	100.000	76.744	0.719
S4	-0.006	1.272	0.000	100.000	78.267	0.470
S5	-0.011	1.200	0.000	100.000	82.561	0.923
S6	-0.003	1.119	0.000	100.000	89.117	0.287
S7	0.003	1.204	0.000	100.000	83.235	-0.224
S8	0.003	1.136	0.000	100.000	88.200	-0.224
Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.003	1.034	1.000	0.000
Air Zero Calibration, performed Mon Feb 20 08:30:39 2023:						
	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	

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	BISON OIL & GAS IV
	Well	FOX CREEK 12-63 25-24-4
	Field	HEREFORD
	County	WELD
	State	CO