

Schlumberger

Company: Bayswater Exploration and Production

Well: MSH Farms 13-15

Field: Wattenberg

County: Weld State: Colorado

CEMENT BOND  
GAMMA RAY  
CASING COLLAR LOG

County: Weld  
Field: Wattenberg  
Location:  
Well: MSH Farms 13-15  
Company: Bayswater Exploration and Production

LOCATION

Permanent Datum: GROUND LEVEL  
Log Measured From: KELLY BUSHING  
Drilling Measured From: KELLY BUSHING

Elev.: K.B. 5067.00 ft  
G.L. 5054.00 ft  
D.F.

API Serial No. 05-123-37591  
Section 15  
Township 7N  
Range 67W

Logging Date	18-Nov-2013			
Run Number	1			
Depth Driller	7390 ft			
Schlumberger Depth	7375 ft			
Bottom Log Interval	7367 ft			
Top Log Interval	38 ft			
Casing Fluid Type	WATER			
Salinity				
Density	8.4 lbm/gal			
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size	7.875 in			
From				
To				
Casing/Tubing Size	4.500 in			
Weight	11.6 lbm/ft			
Grade				
From				
To				
Maximum Recorded Temperatures	223 degF			
Logger On Bottom	18-Nov-2013	Time	8:15	
Unit Number	354	Location	FORT MORGAN	
Recorded By	C MARCH			
Witnessed By	RICK OHLEMEIER			

PVT DATA					Run 1	Run 2	Run
Oil Density							
Water Salinity							
Gas Gravity							
Bo							
Bw							
1/Bq							
Bubble Point Pressure							
Bubble Point Temperature							
Solution GOR							
Maximum Deviation							
CEMENTING DATA							
Primary/Squeeze	Primary						
Casing String No							
Lead Cement Type							
Volume							
Density							
Water Loss							
Additives							
Tail Cement Type							
Volume							
Density							
Water Loss							
Additives							
Expected Cement Top							
Logging Date							
Run Number							
Depth Driller							
Schlumberger Depth							
Bottom Log Interval							
Top Log Interval							
Casing Fluid Type							
Salinity							
Density							
Fluid Level							
BIT/CASING/TUBING STRING							
Bit Size							
From							
To							
Casing/Tubing Size							
Weight							
Grade							
From							
To							
Maximum Recorded Temperatures							
Logger On Bottom		Time					
Unit Number		Location					
Recorded By							
Witnessed By							

## DEPTH SUMMARY LISTING

Date Created: 18-NOV-2013 8:08:20

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CM TD-B/A	Type:	1-25P
Serial Number:	6220	Serial Number:	1163	Serial Number:	354
Calibration Date:	27-MAR-2013	Calibration Date:	15-OCT-2013	Length:	17000 FT
Calibrator Serial Number:	1	Calibrator Serial Number:	78135	<hr/> Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	1-25P	Number of Calibration Points:	0		
Wheel Correction 1:	-4				
Wheel Correction 2:	-2				

## Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 FT
Rig Up Length At Bottom:	0.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	
Tool Zero Check At Surface:	

## Depth Control Remarks

- |  |
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| 1. IDW WHEELS PRIMARY DEPTH CONTROL<br>2. DRUM COUNTER USED AS SECONDARY DEPTH CONTROL<br>3.<br>4.<br>5.<br>6. |
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DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: PERF	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1
NO CORRELATION LOG
FIRST LOG IN WELL

[illegible]

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REPEAT AND MAIN PASS					
RAN UNDER 0 PSI					
CREW: HOFFMAN, KOLMAN					
THANK YOU					
RUN 1		RUN 2			
SERVICE ORDER #:		CI 70-00131		SERVICE ORDER #:	
PROGRAM VERSION:		19C2-270		PROGRAM VERSION:	
FLUID LEVEL:				FLUID LEVEL:	
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

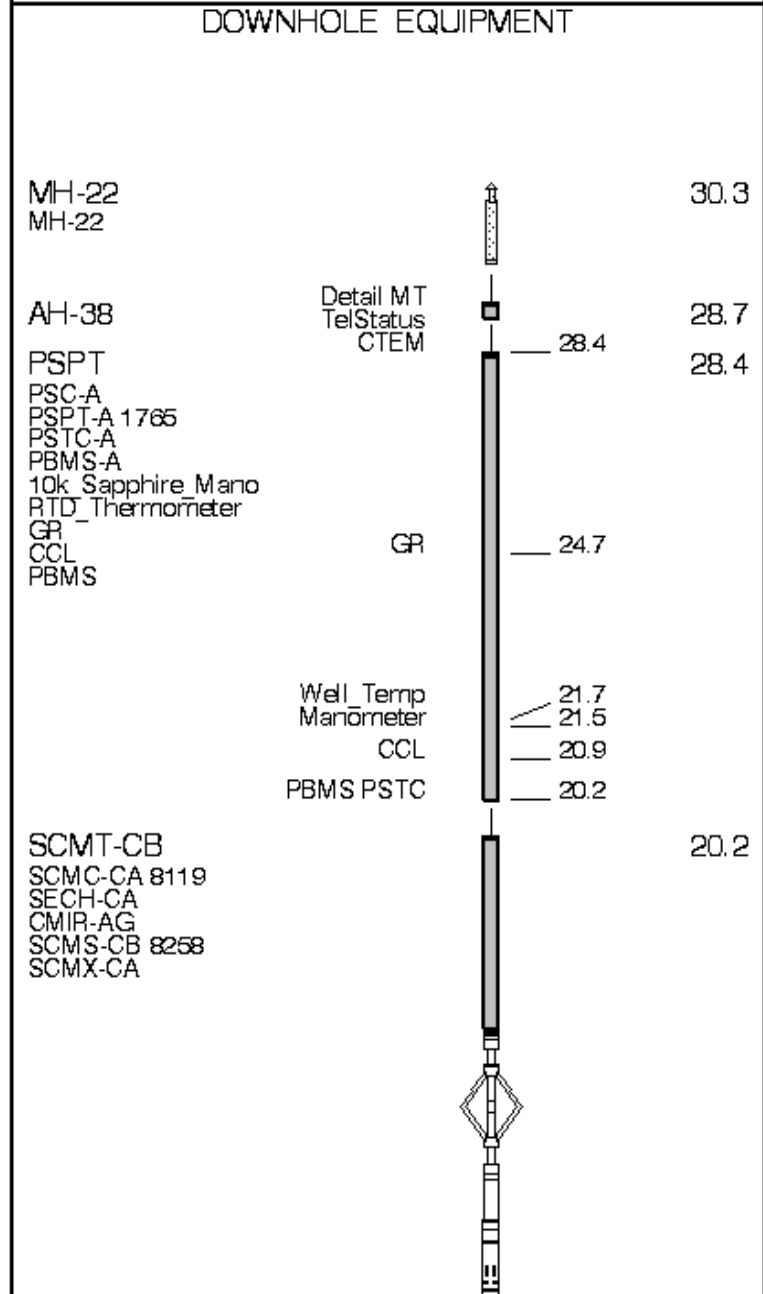
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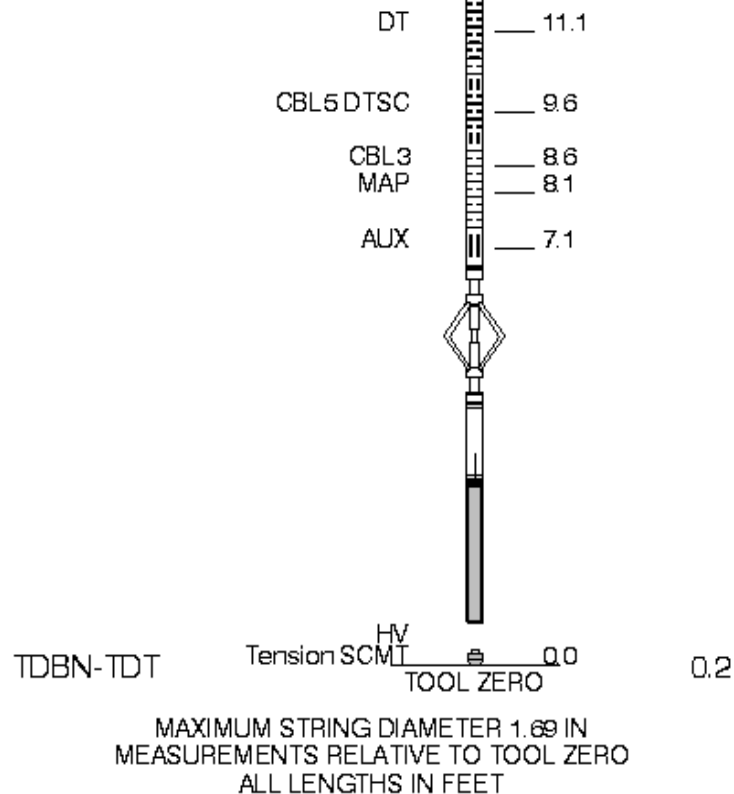
RUN 2

SURFACE EQUIPMENT

WITM-A

PSC\_16MHZ





**Schlumberger**

**MAIN PASS**

MAXIS Field Log

Company: Bayswater Exploration and Production

Well: MSH Farms 13-15

### Input DLIS Files

DEFAULT	SCMT_PSP_005LUP	FN:4	PRODUCER	18-Nov-2013 09:13	7384.0 FT	29.6 FT
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### Output DLIS Files

DEFAULT	SCMT_PSP_009PUP	FN:8	PRODUCER	18-Nov-2013 13:34	7384.0 FT	30.0 FT
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### OP System Version: 19C2-270

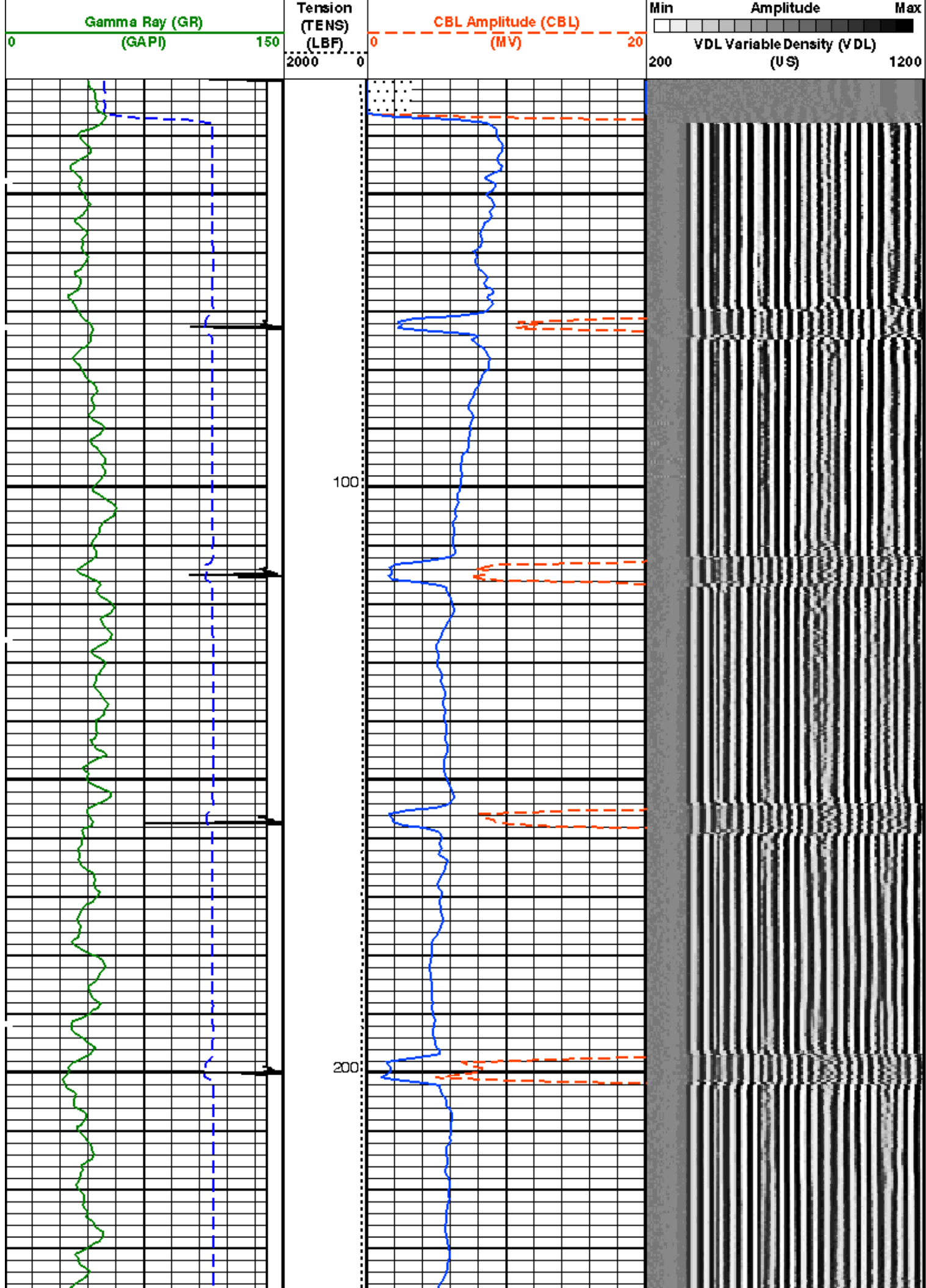
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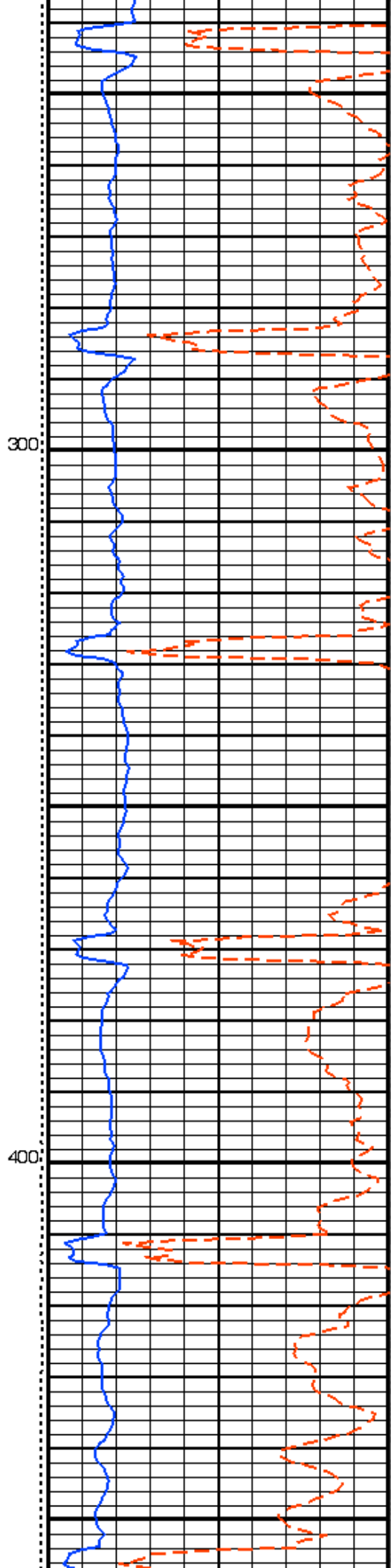
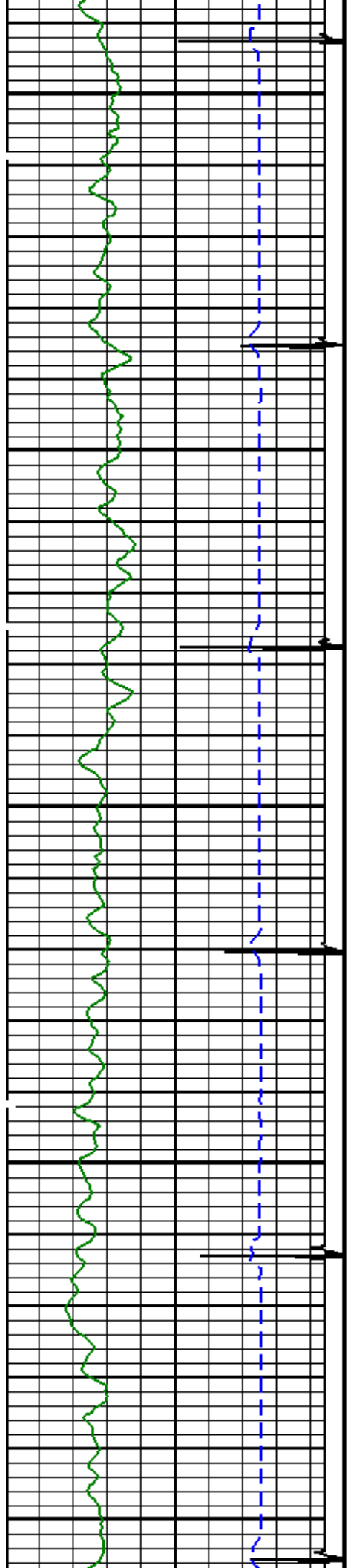
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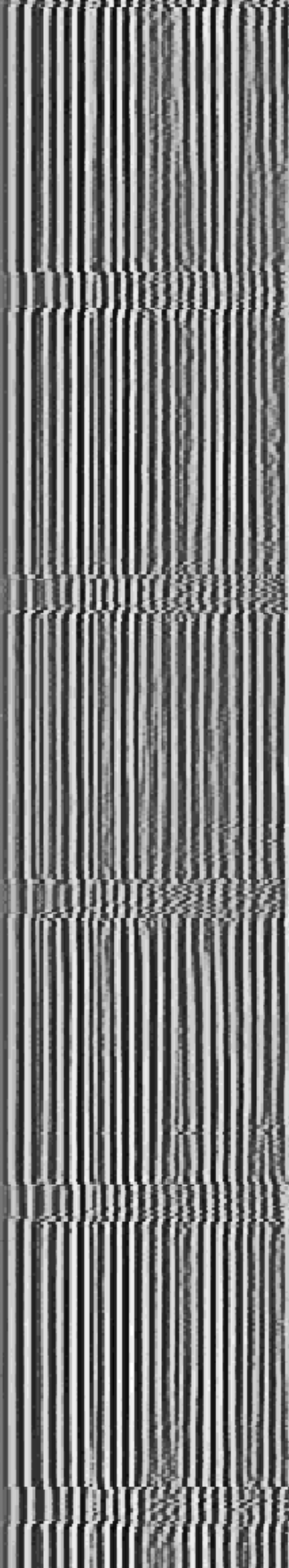
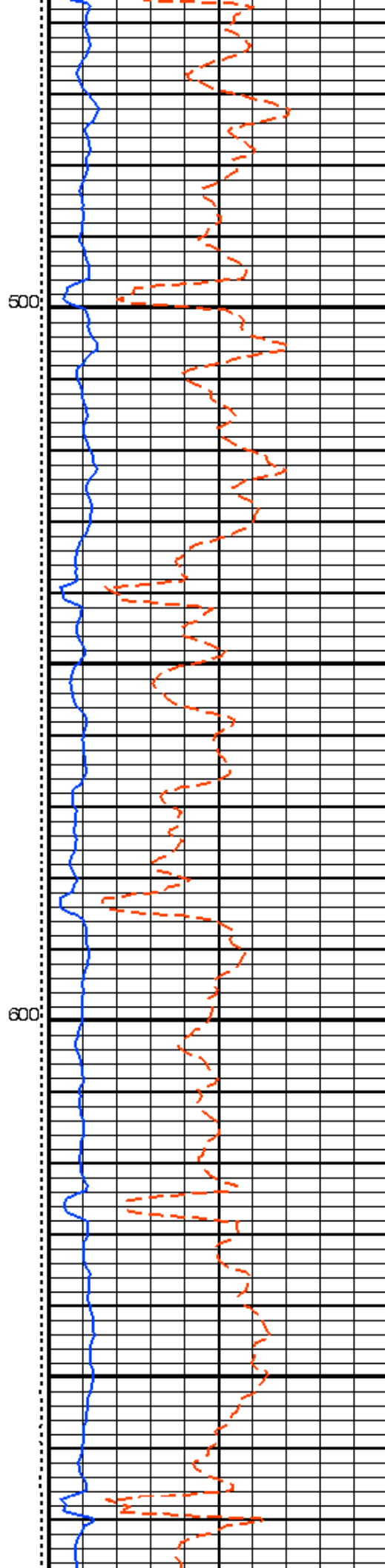
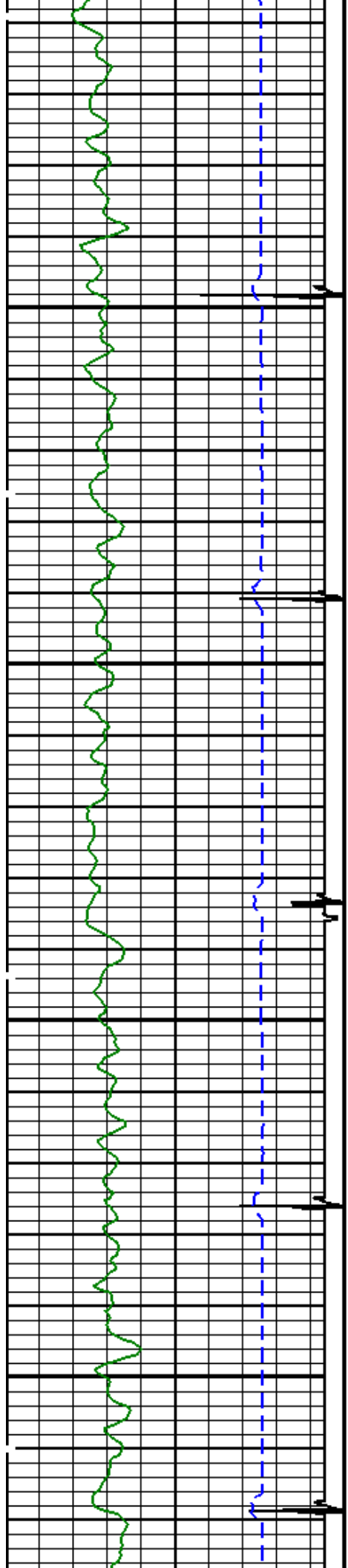
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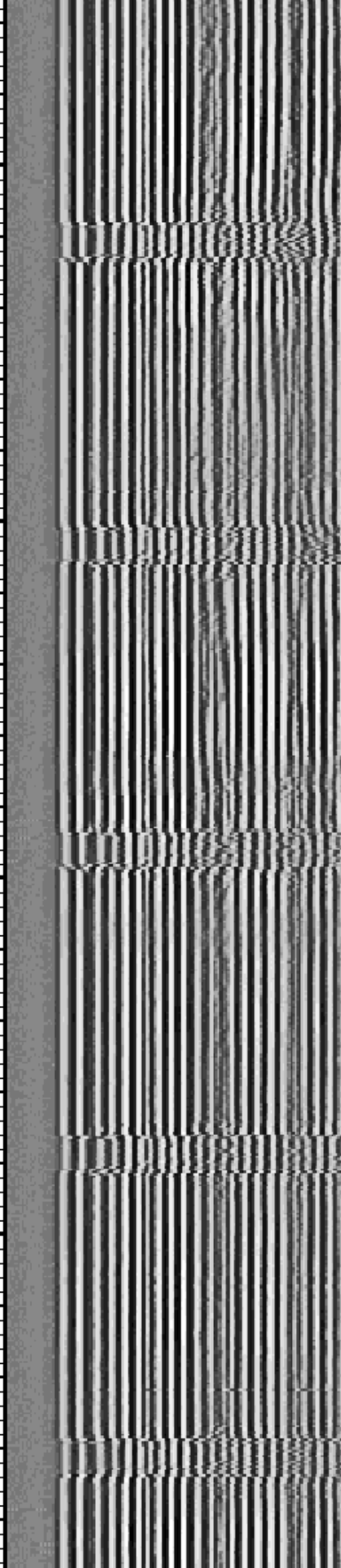
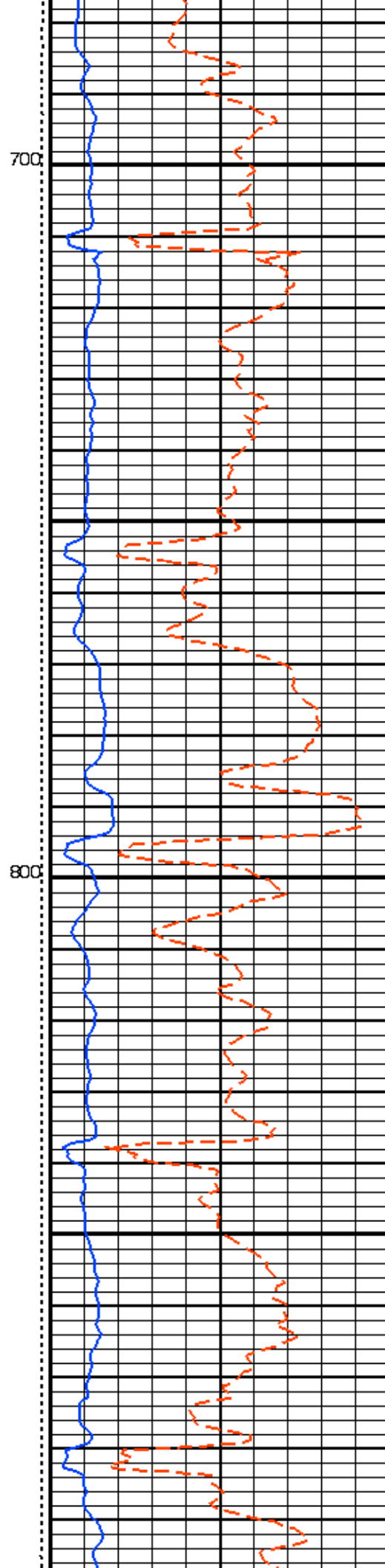
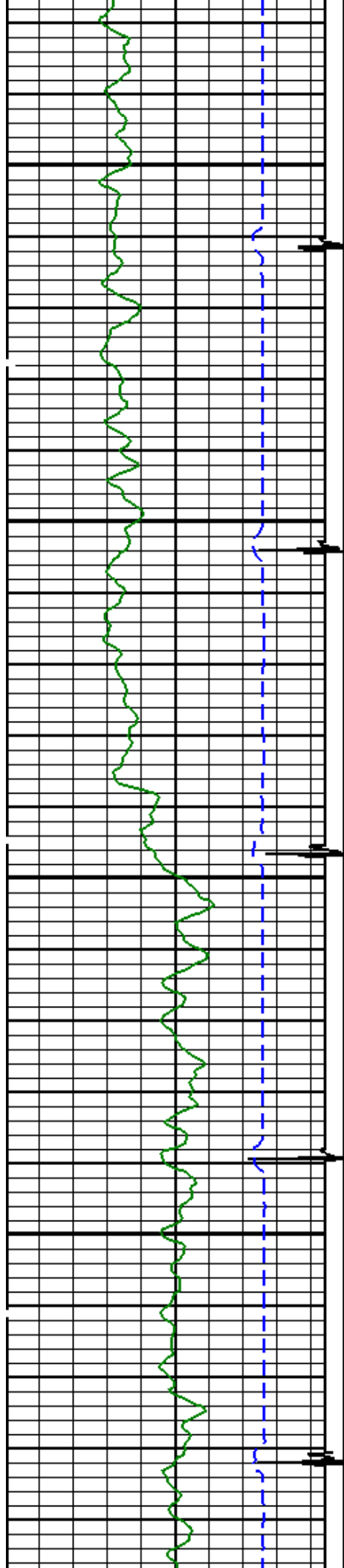
Discriminated CCL (CCLD)		
-3.5	(V)	0.5
COLLARS From CCLD to T1		
Transit Time (TT)		
400	(US)	200

GOOD BOND From ACBL to GOBO		
CBL Amplitude (CBL)		
0	(MV)	100

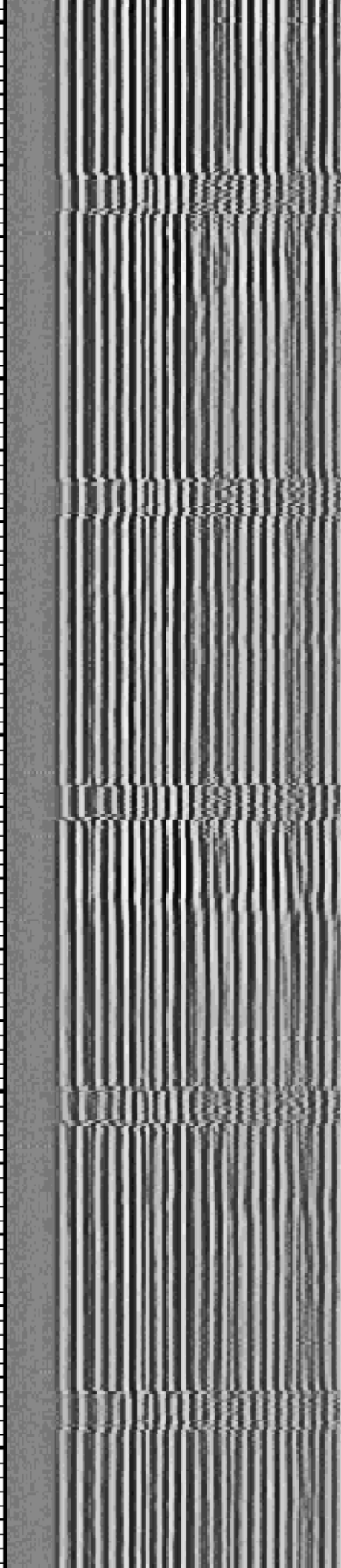
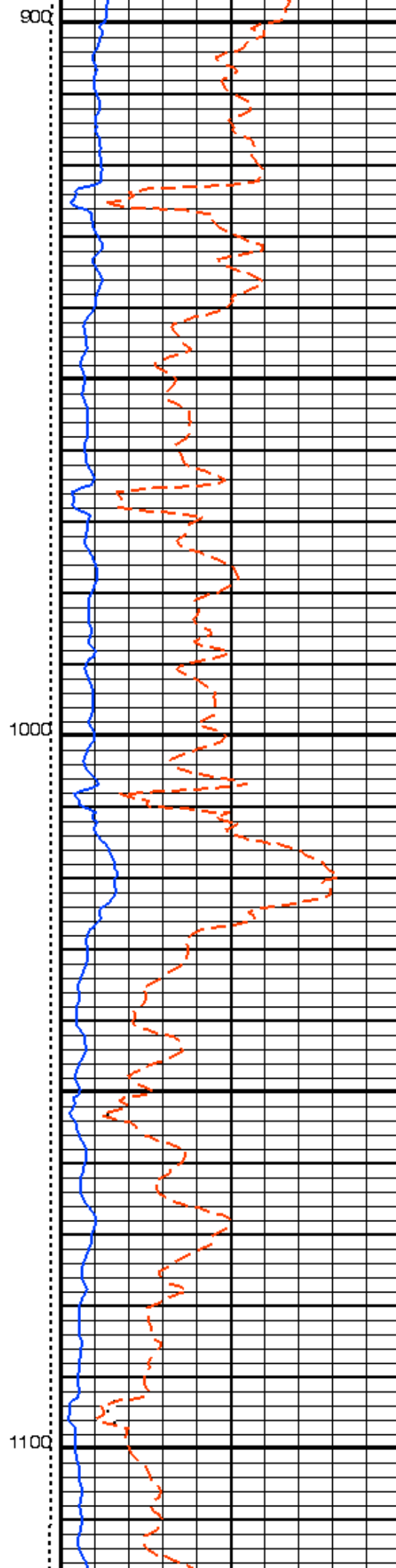
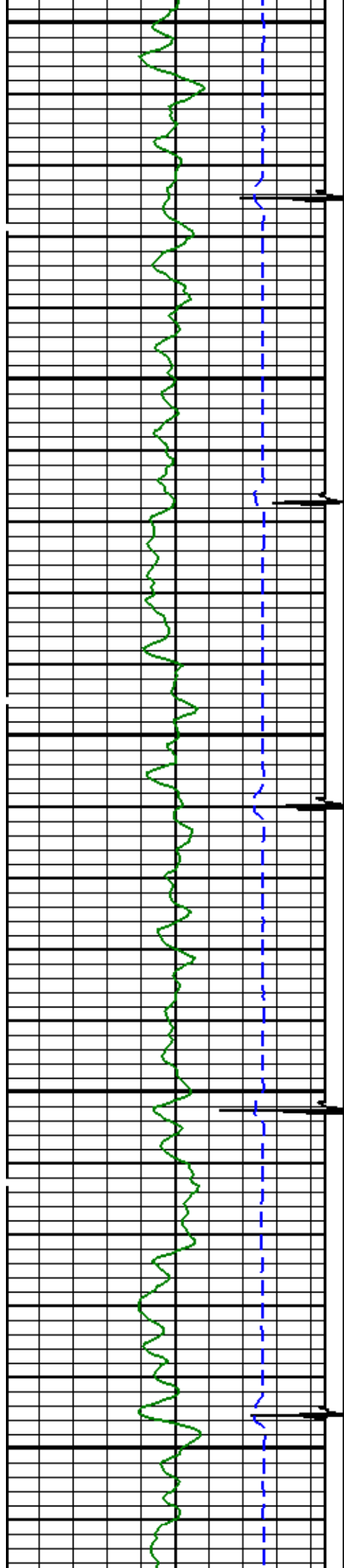


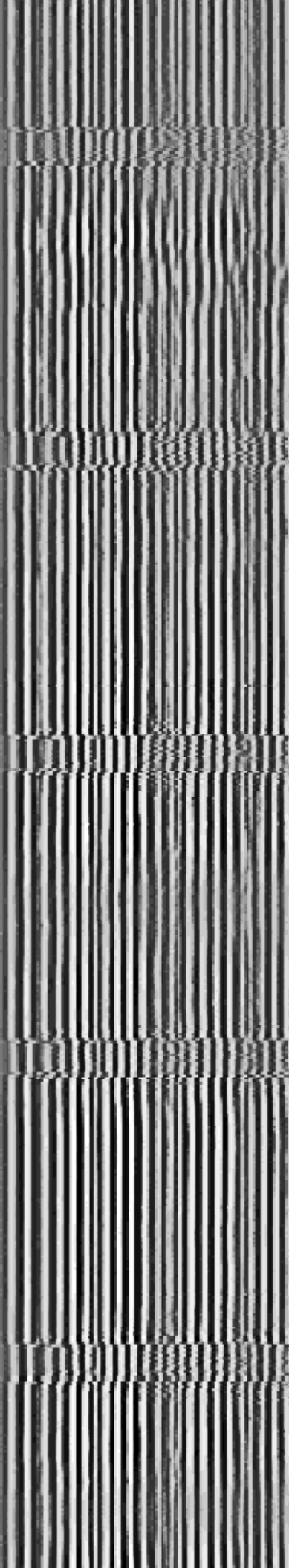
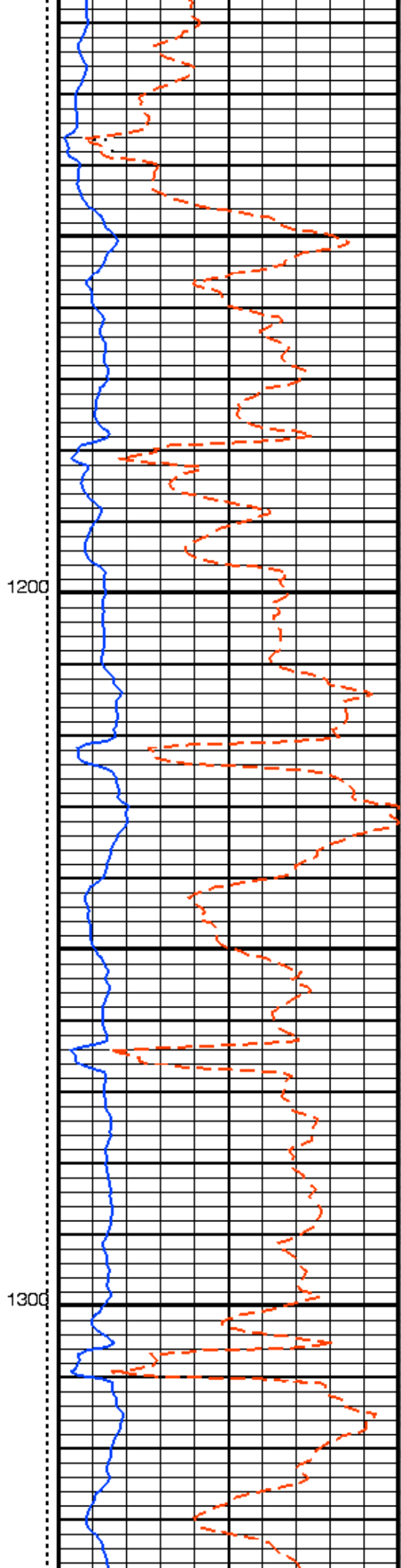
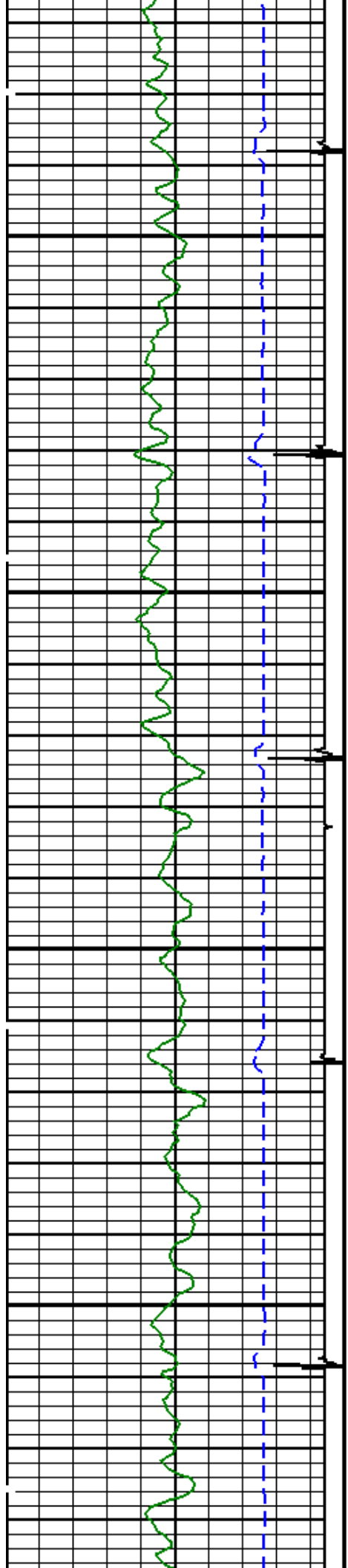


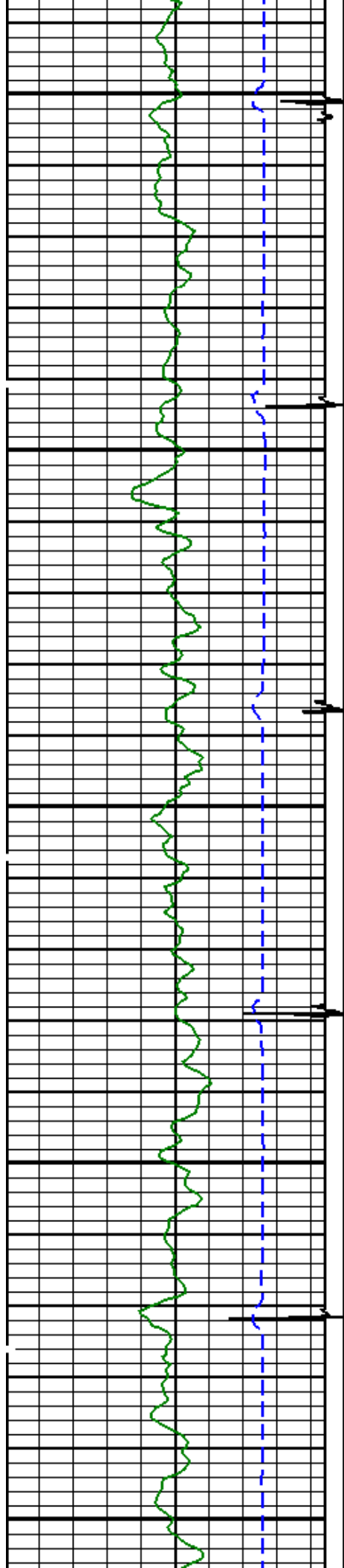






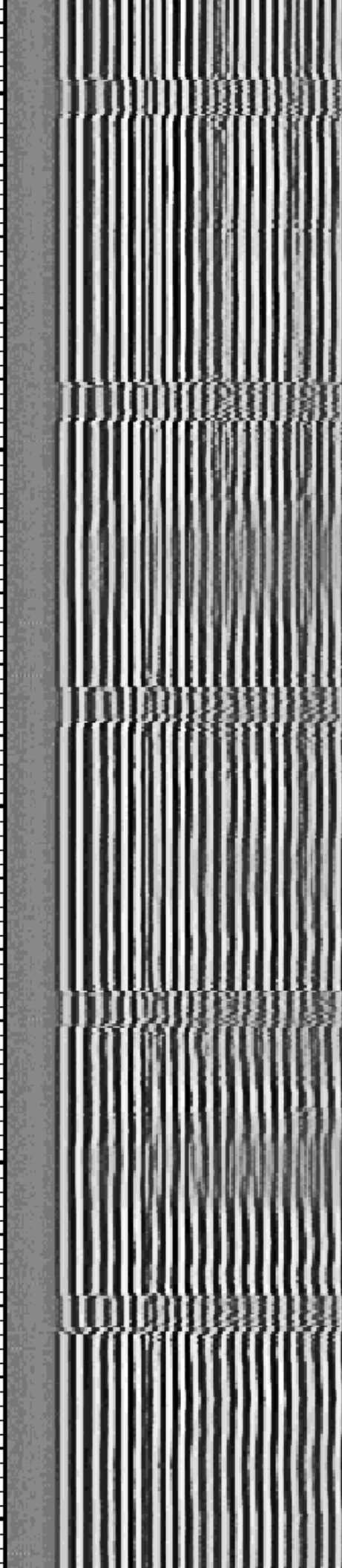
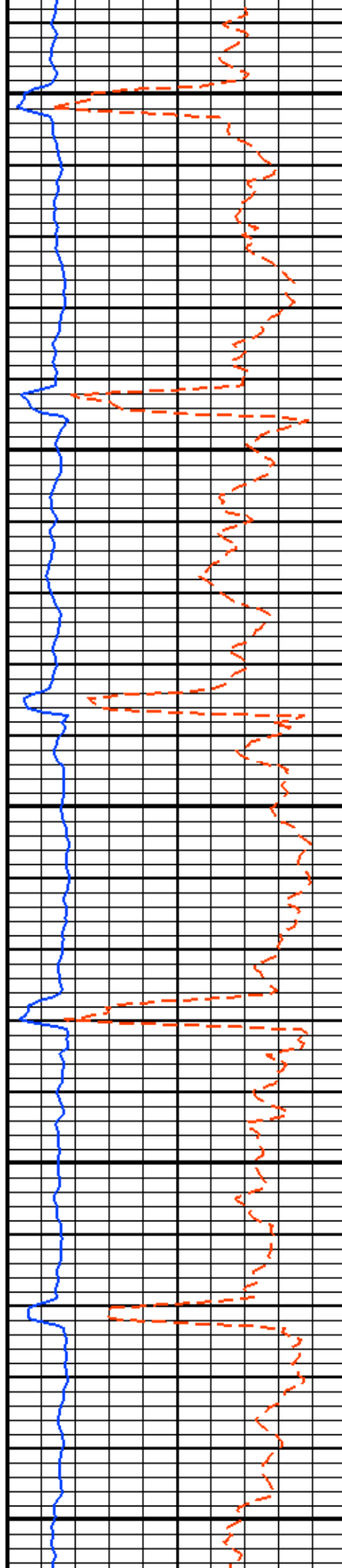


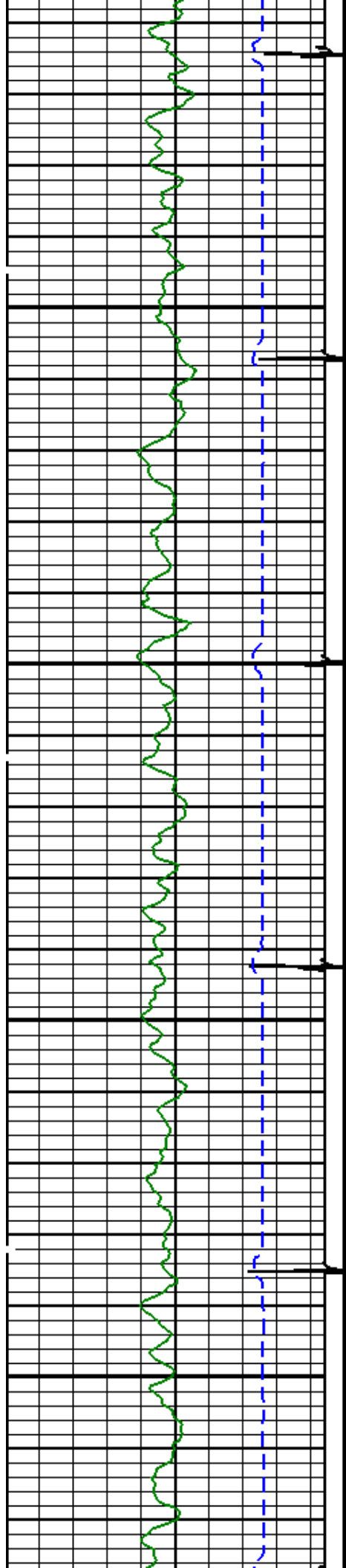




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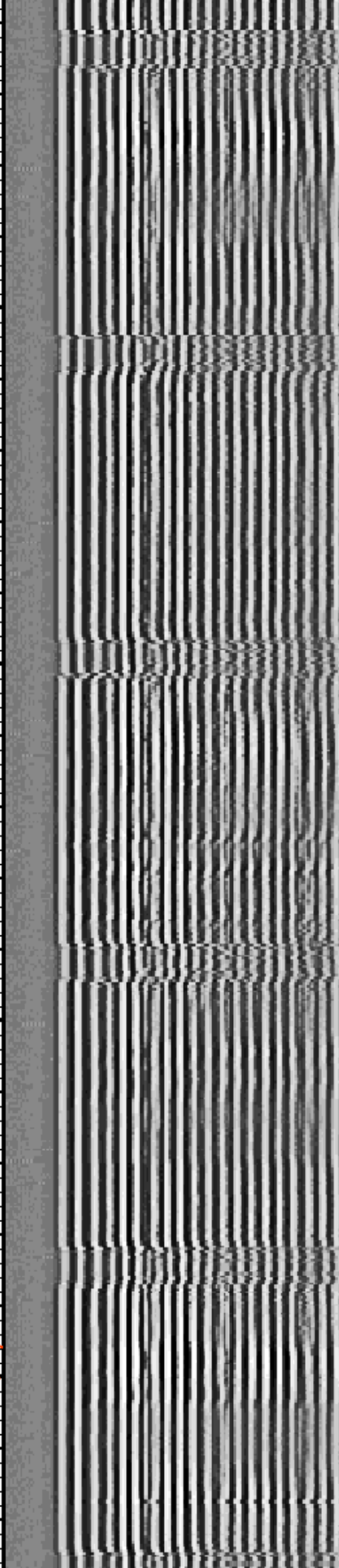
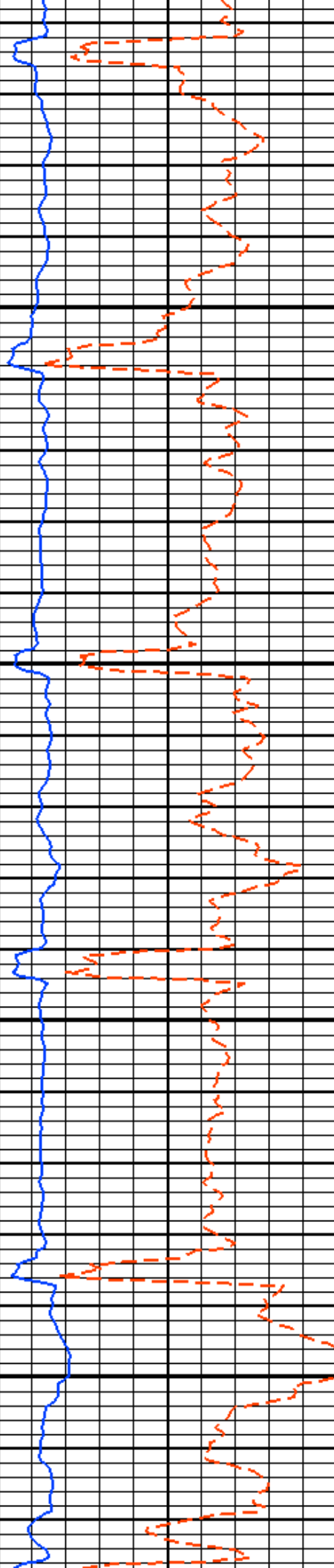
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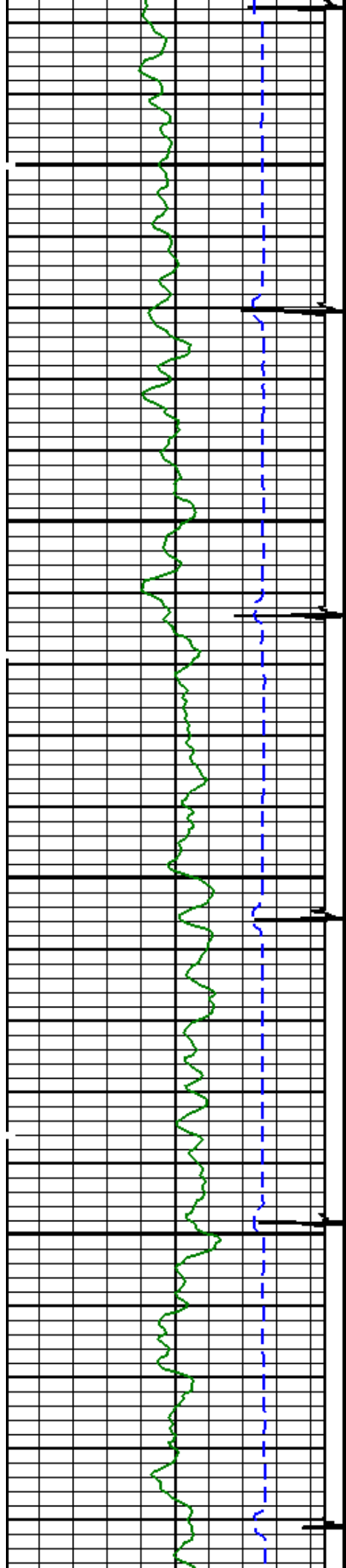


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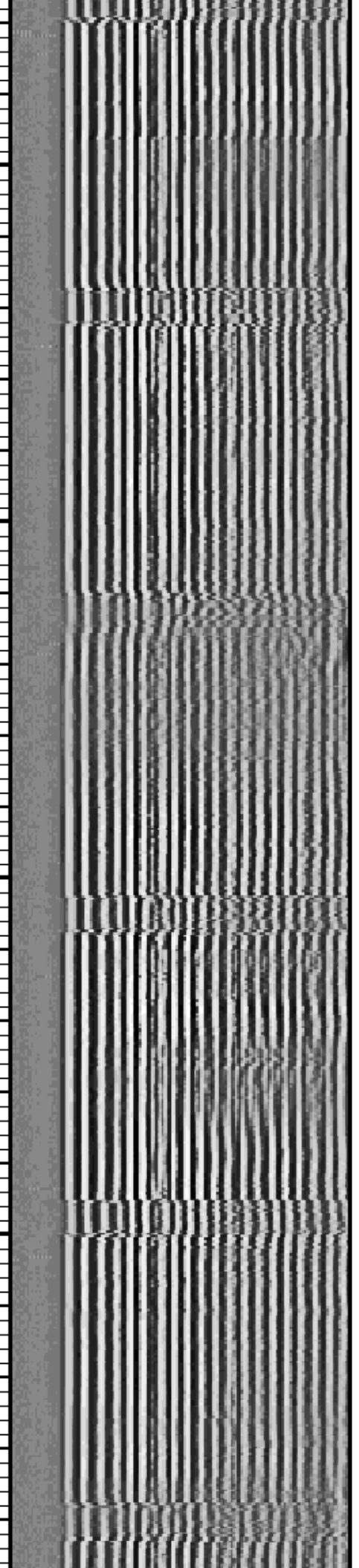
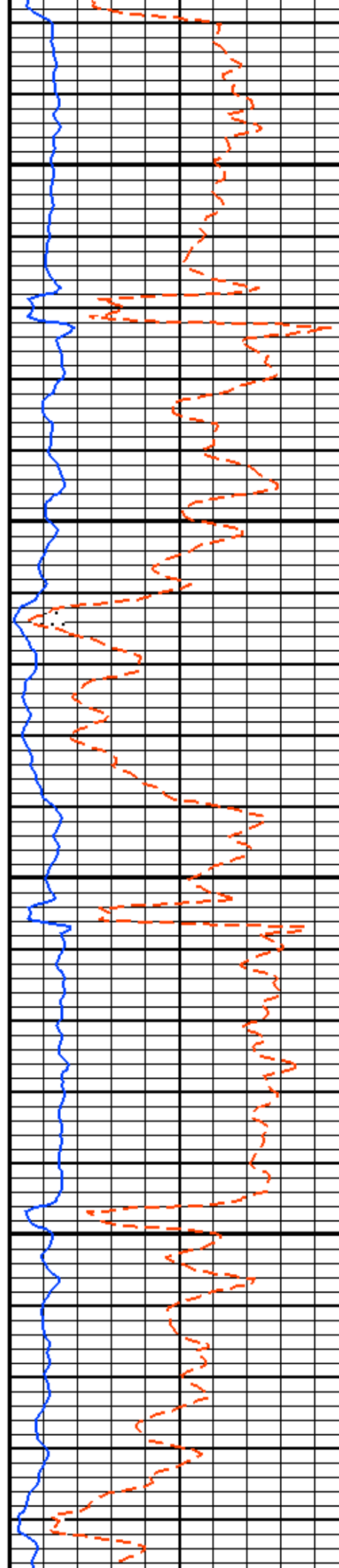


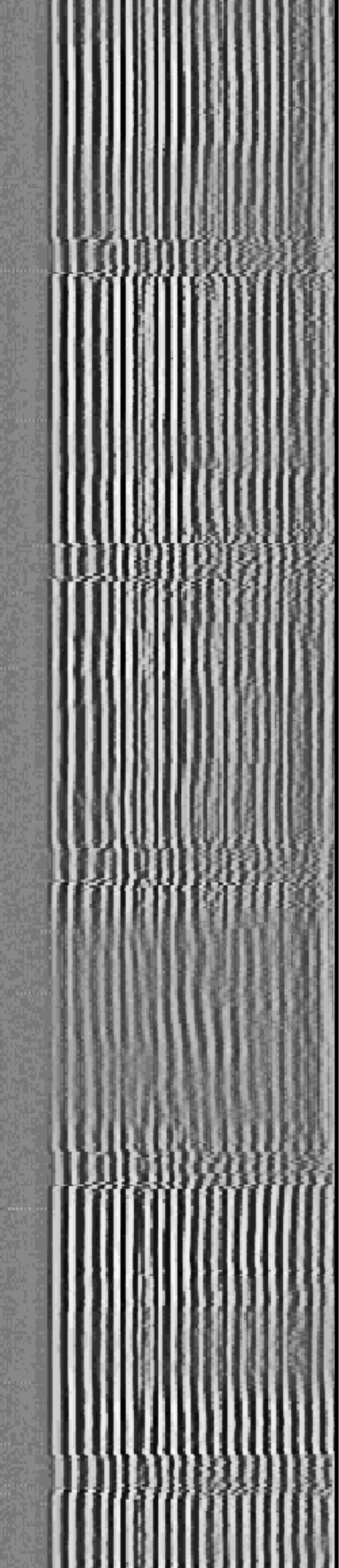
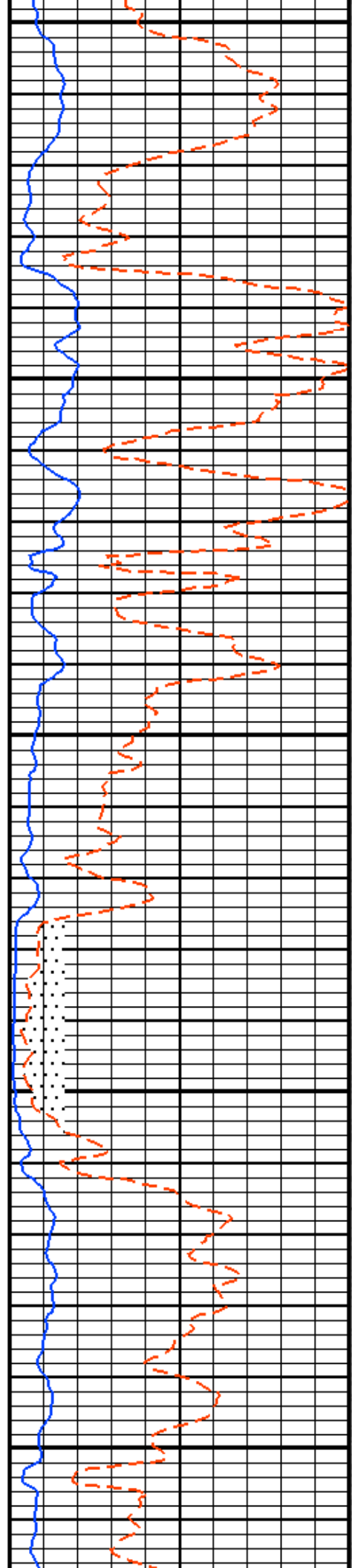
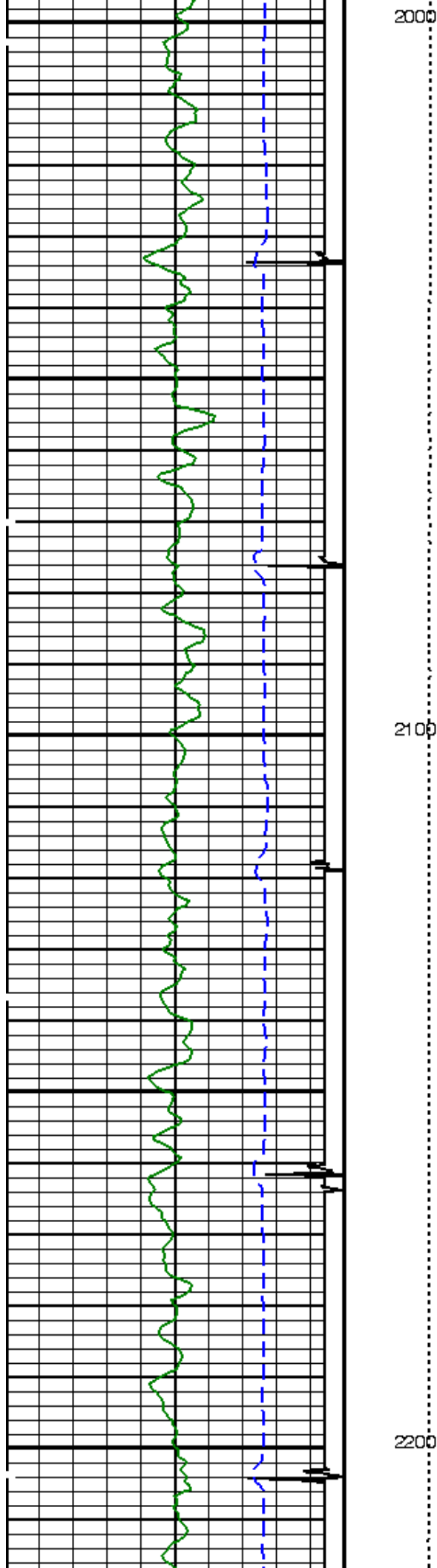


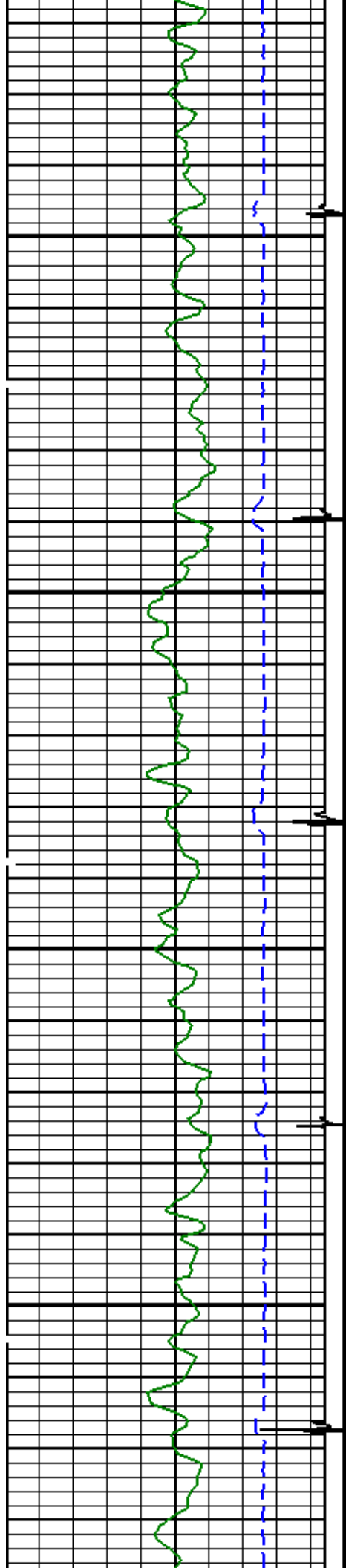


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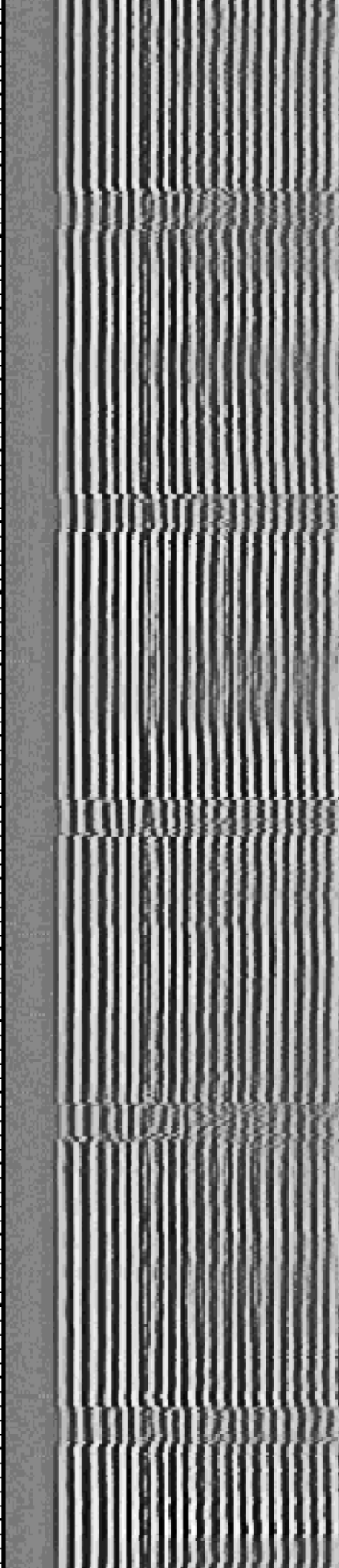
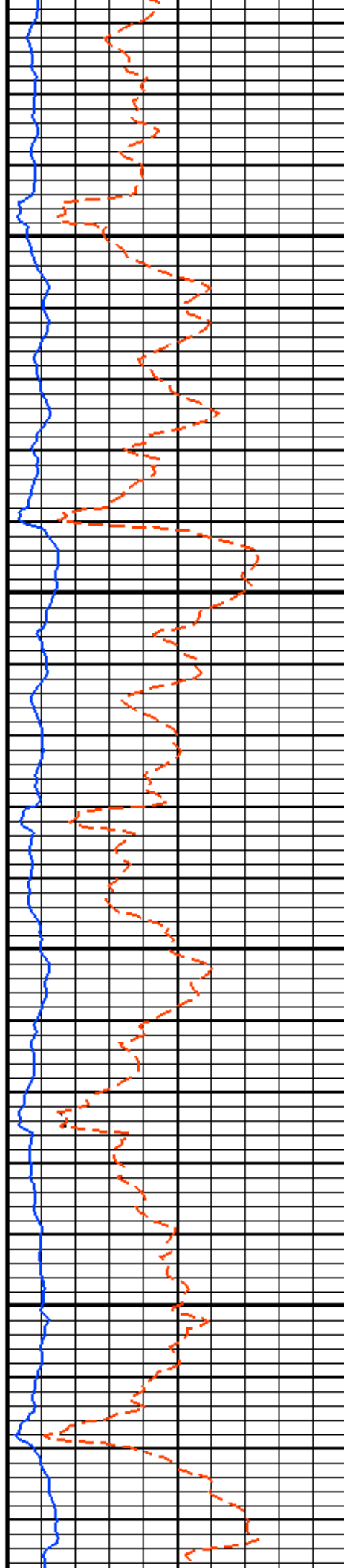


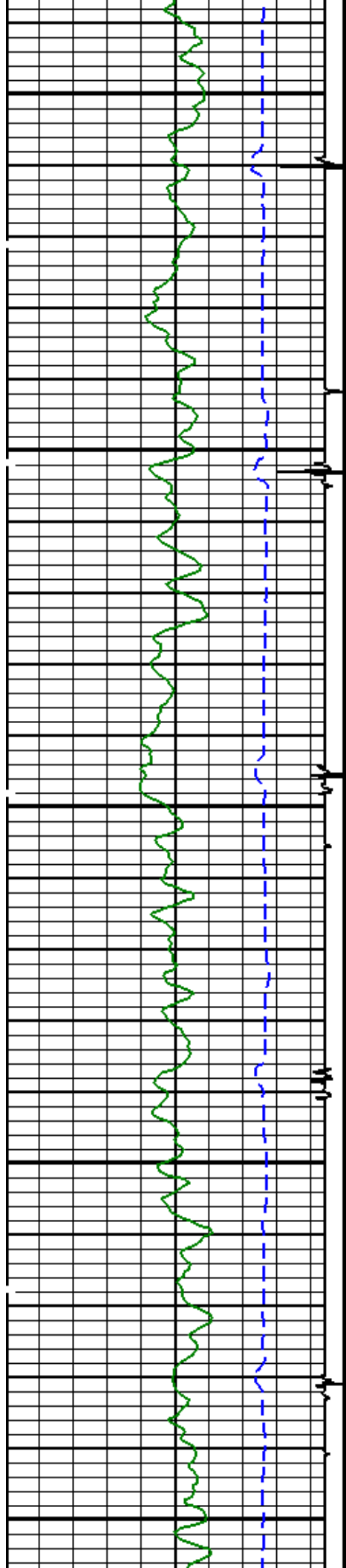




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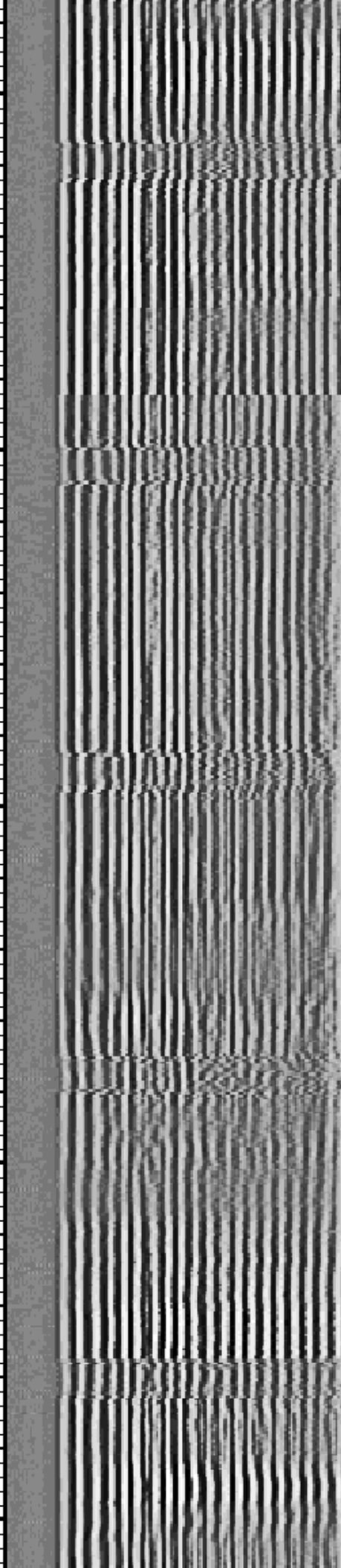
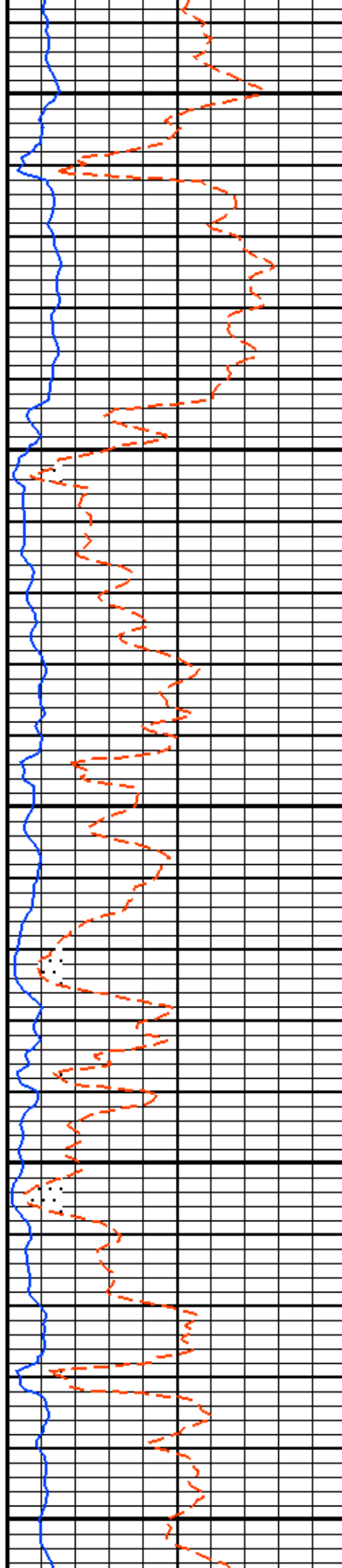
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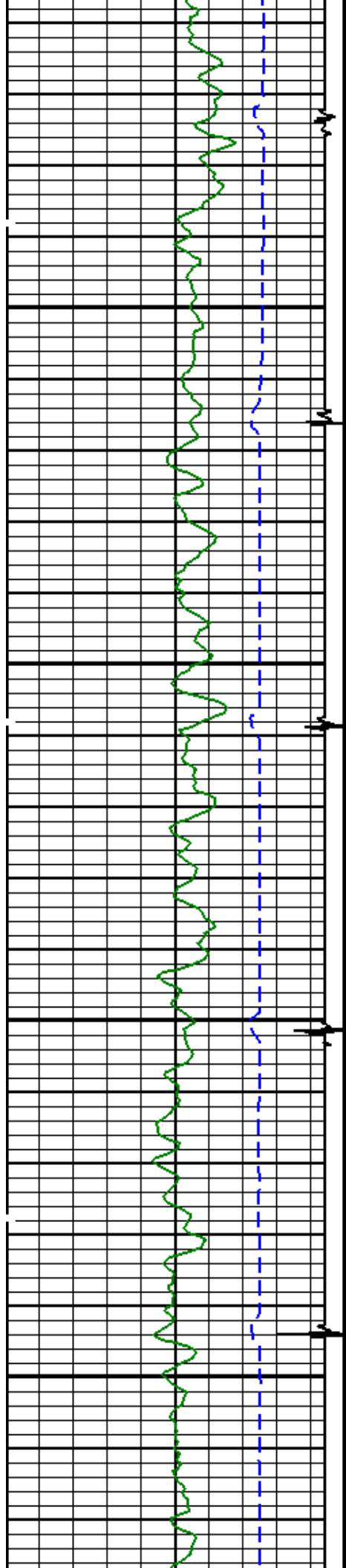


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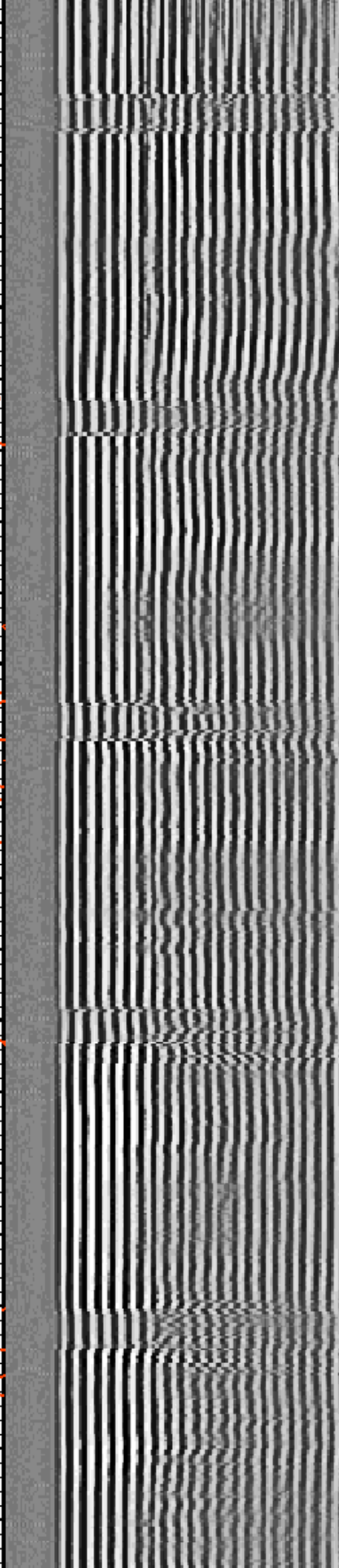
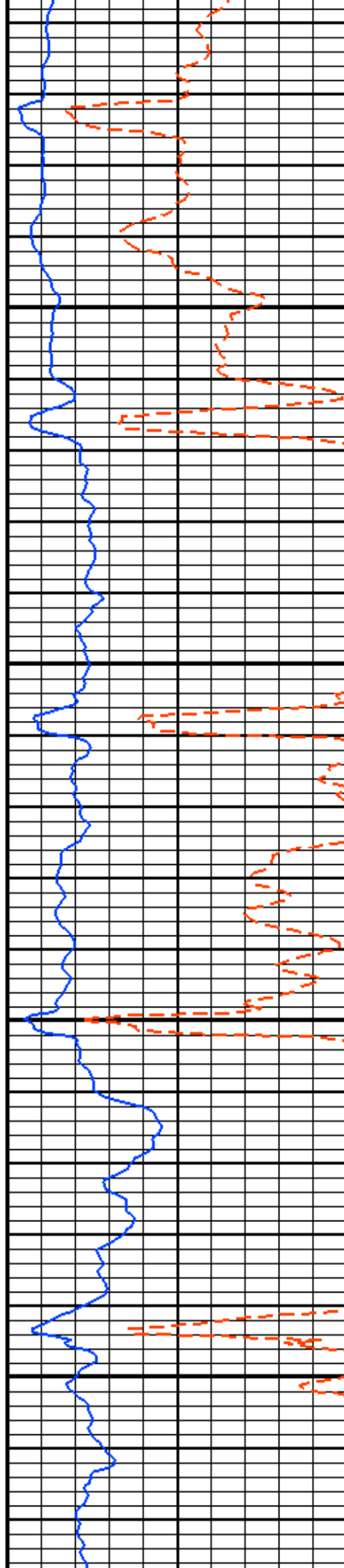


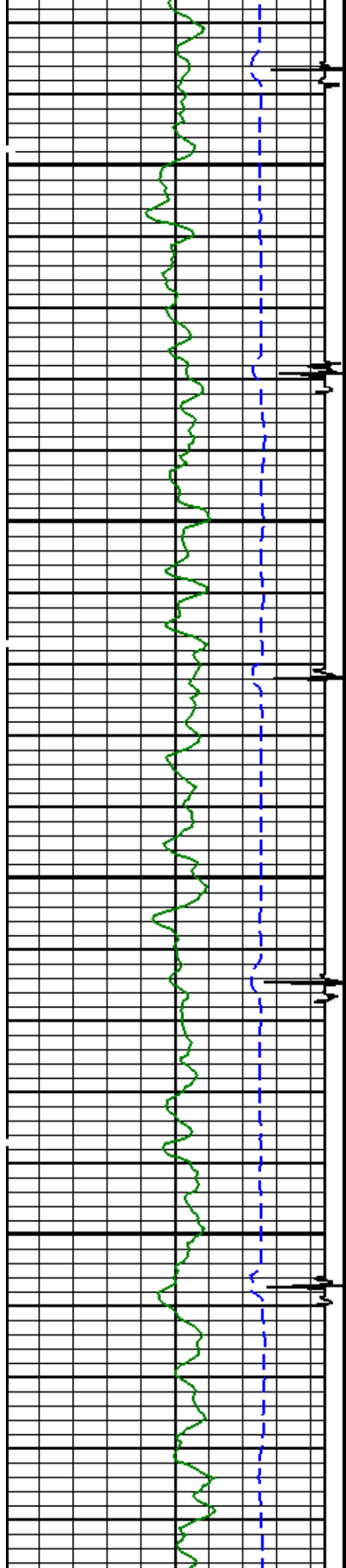




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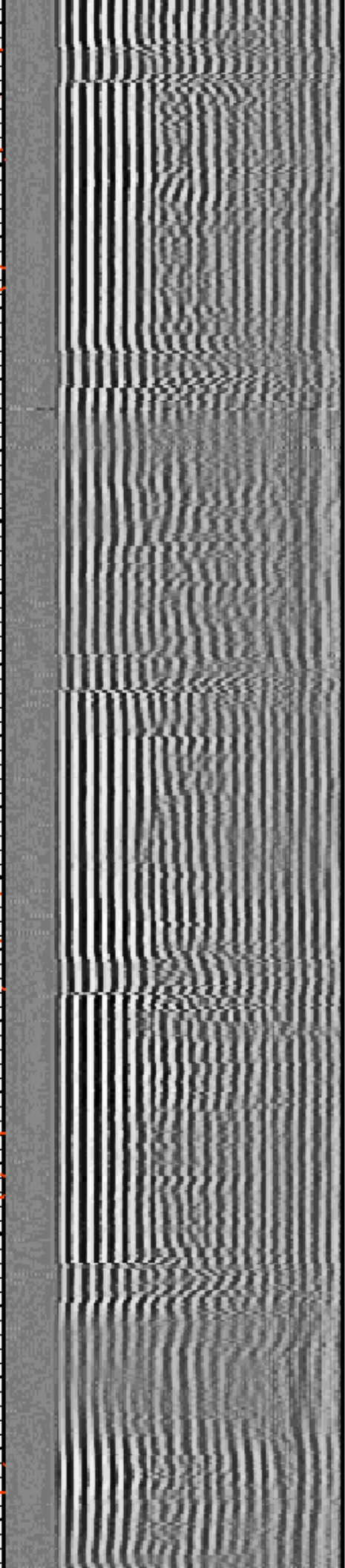
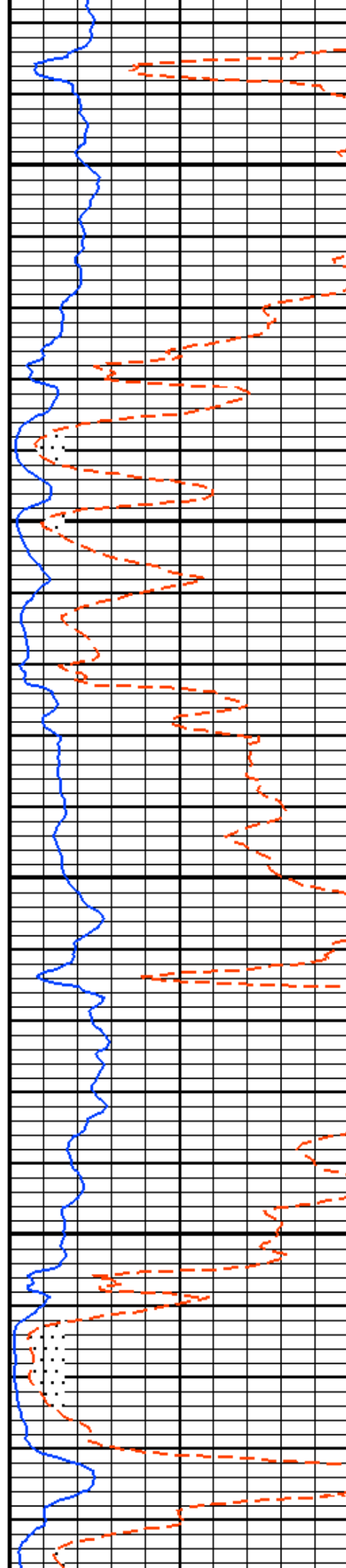
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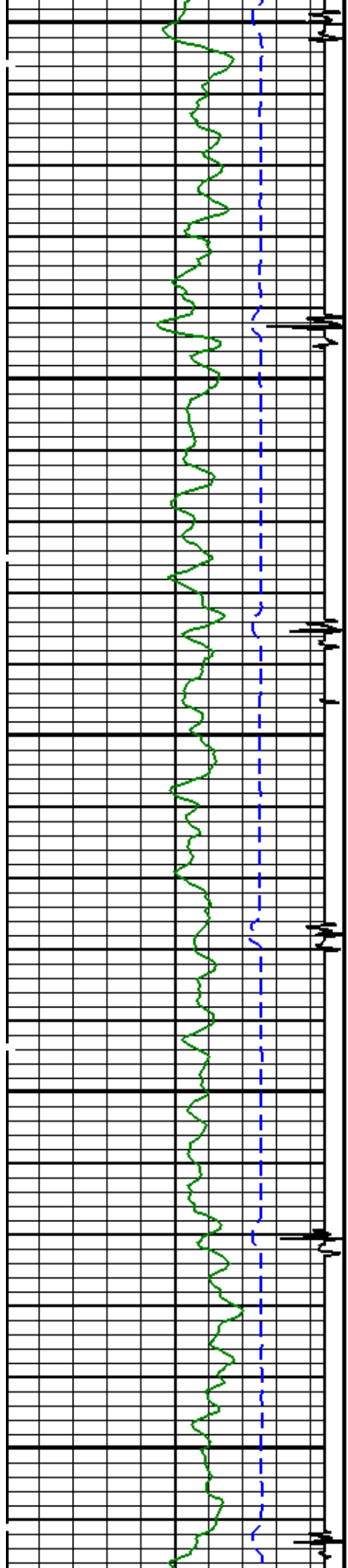




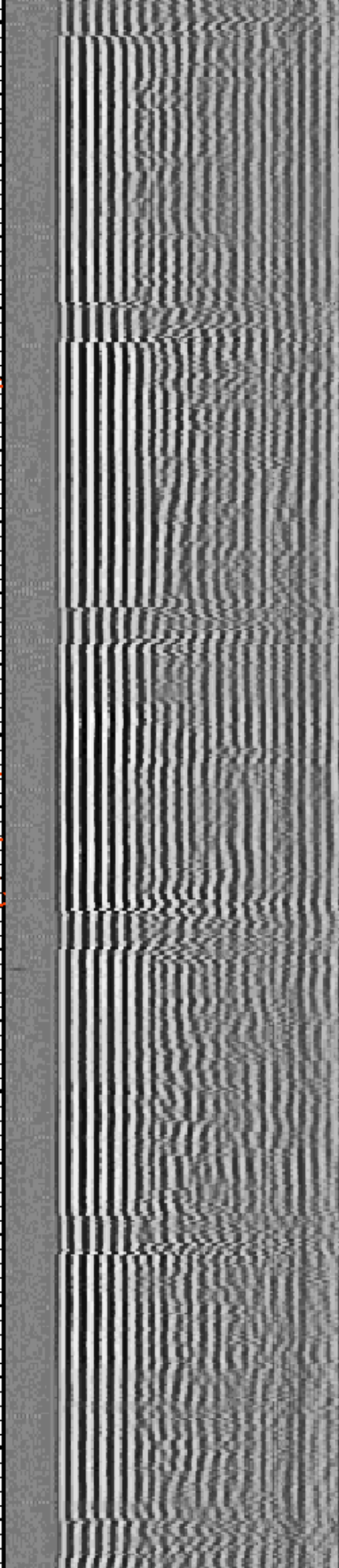
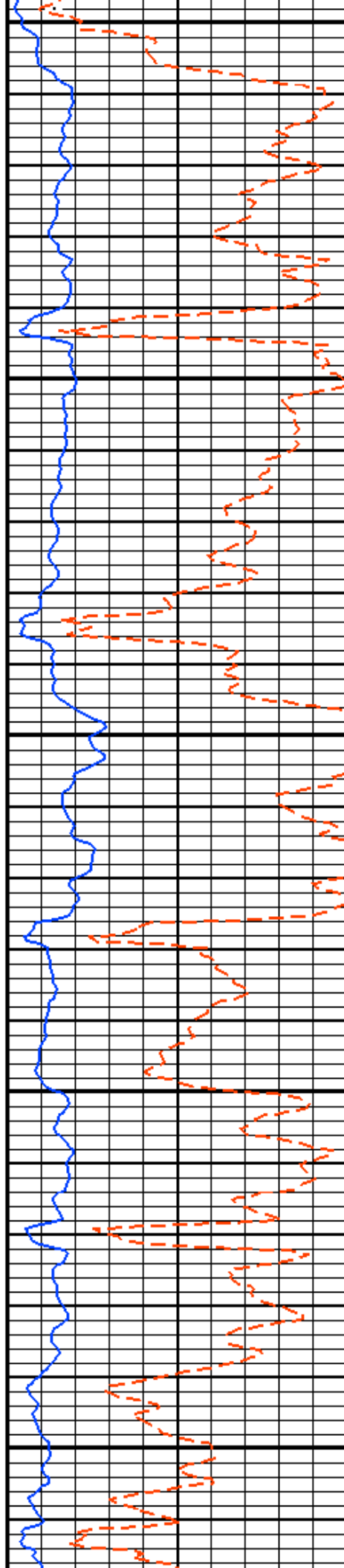
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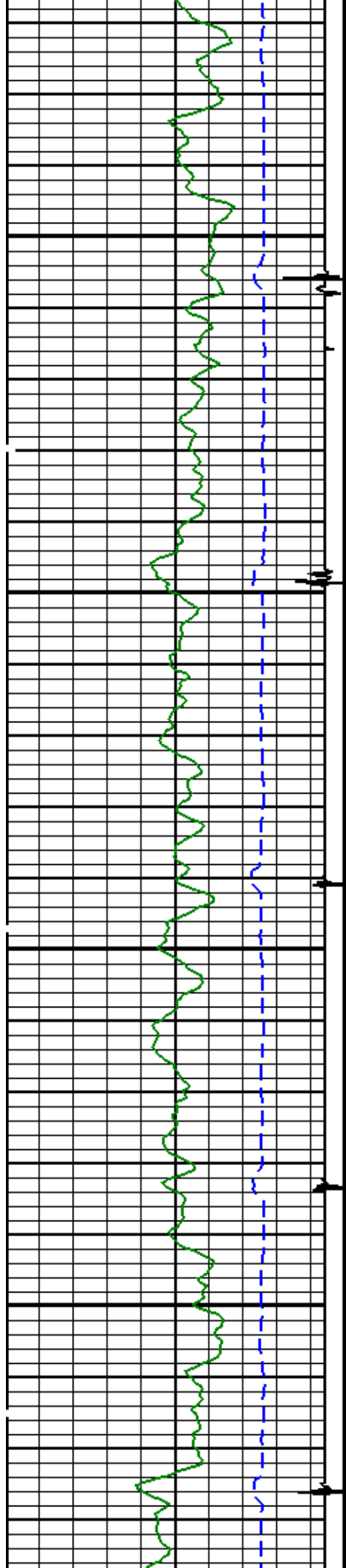
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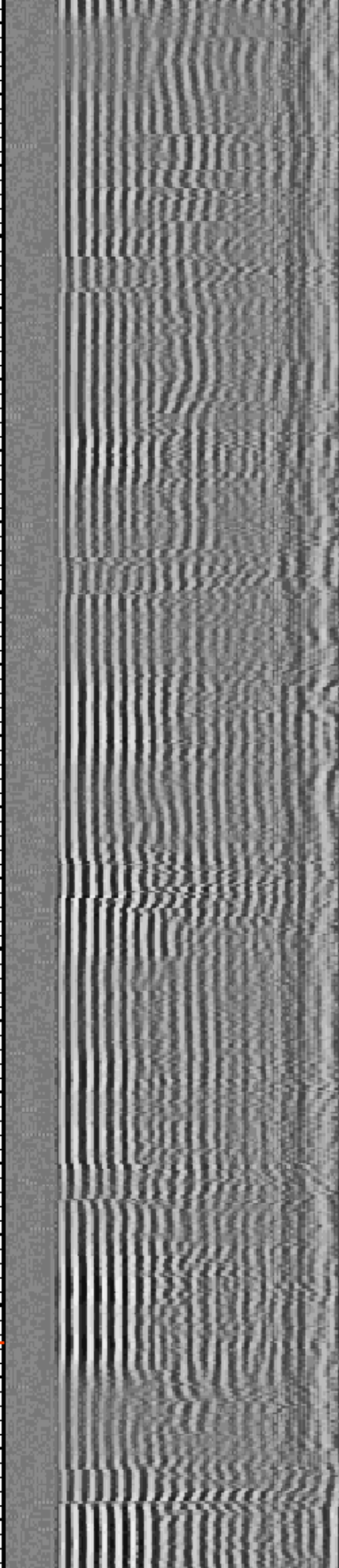
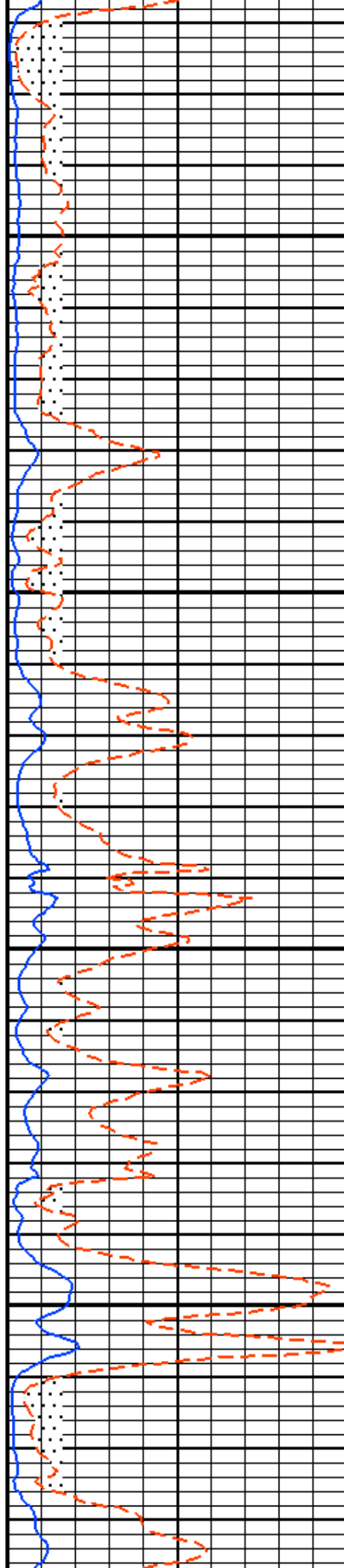
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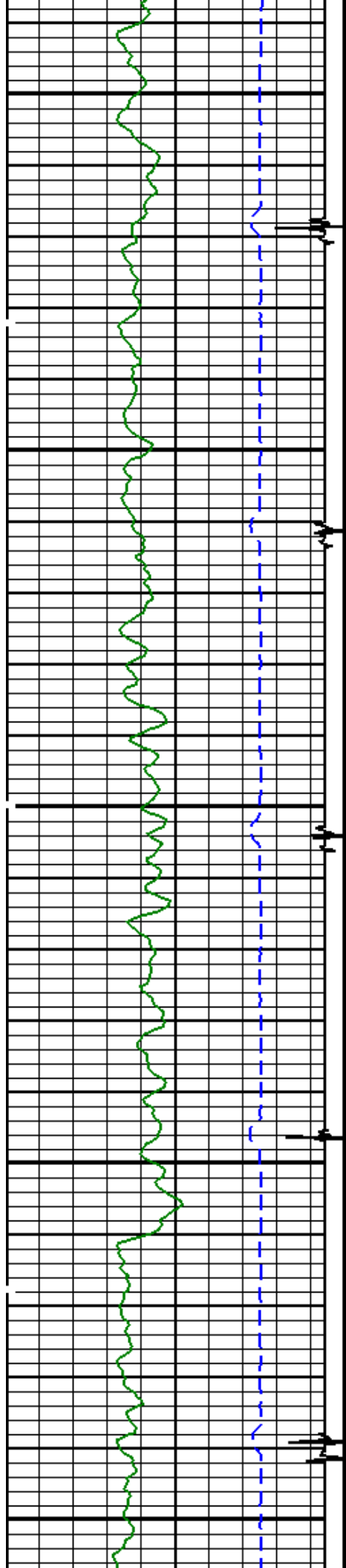


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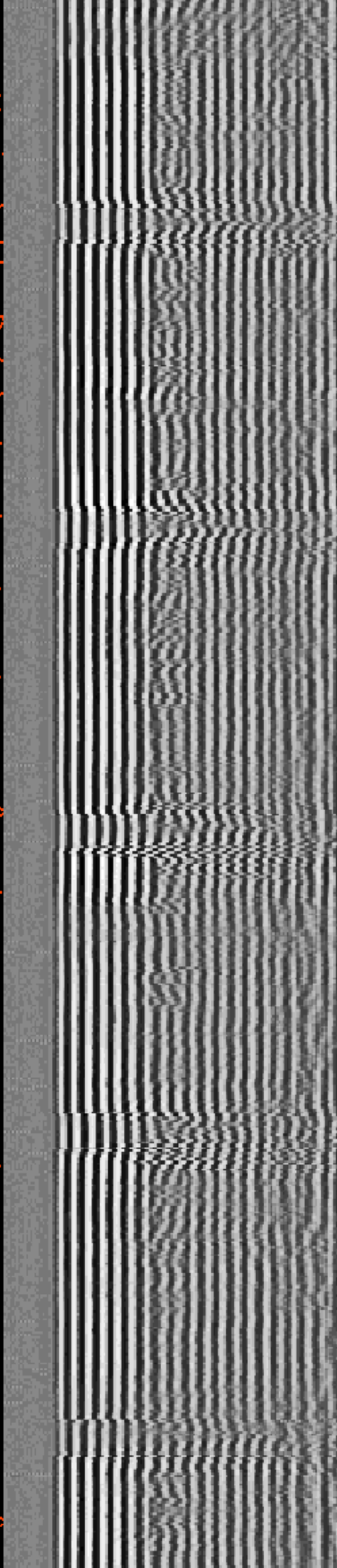
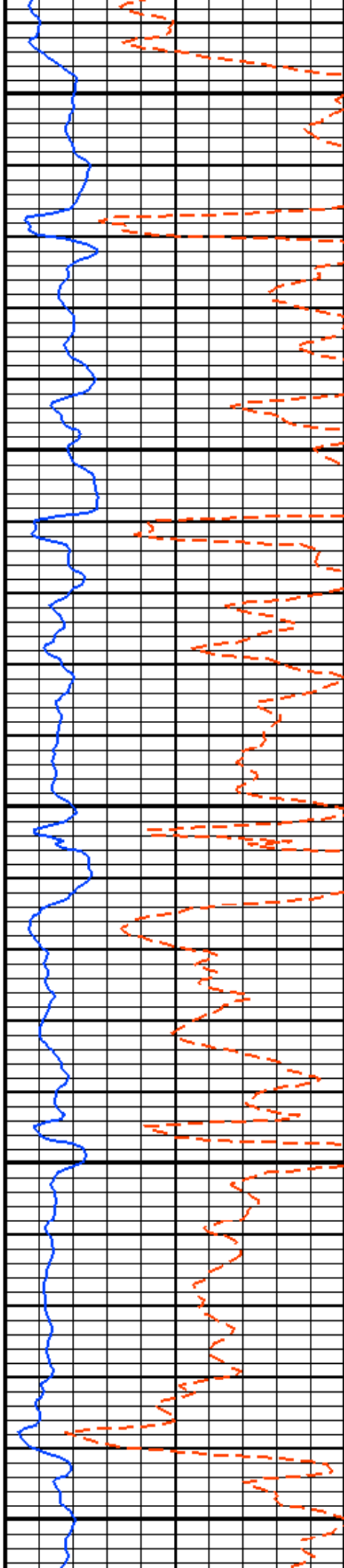


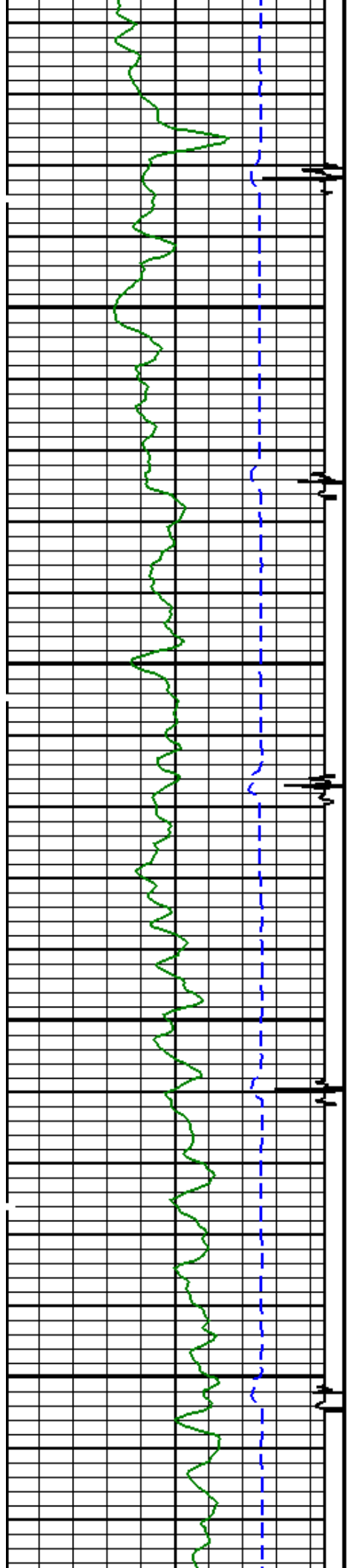




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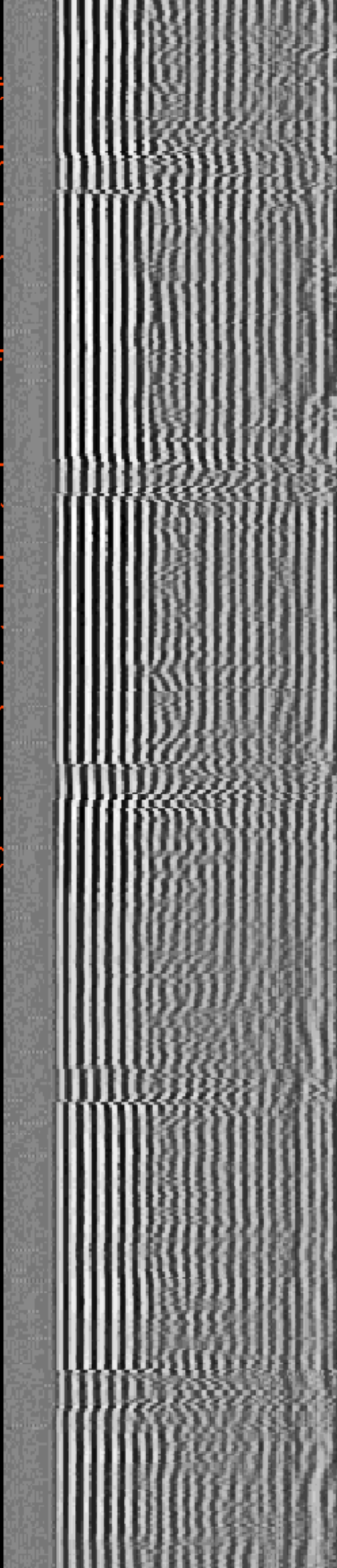
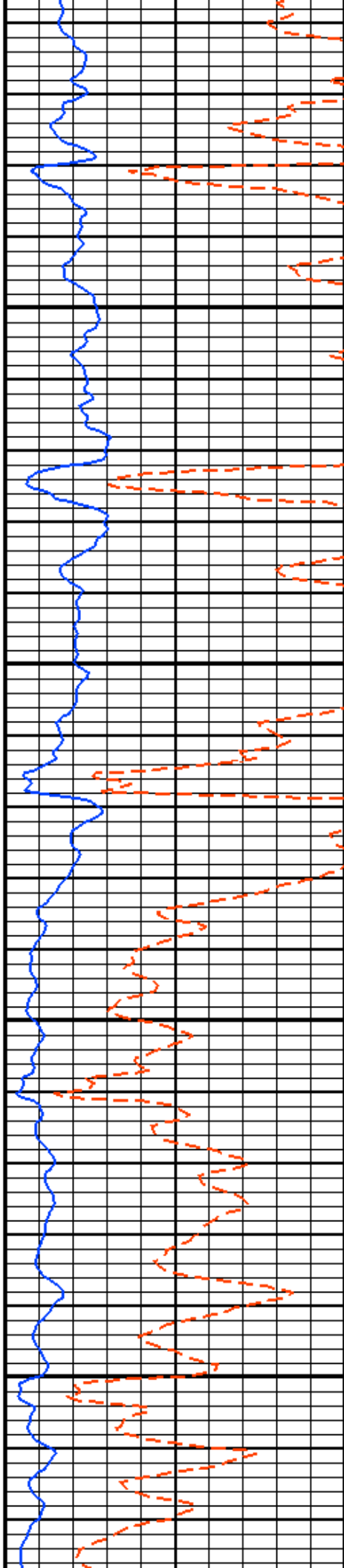
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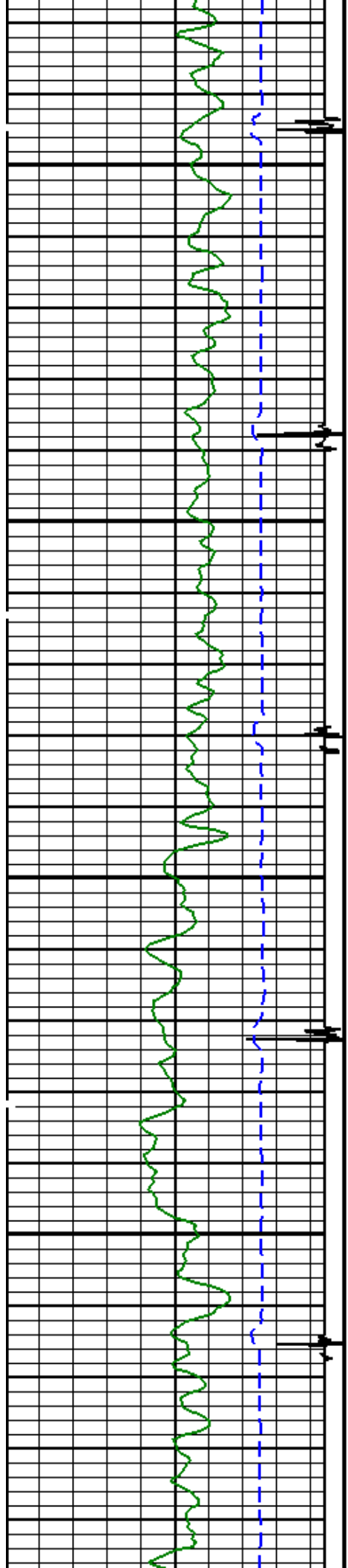




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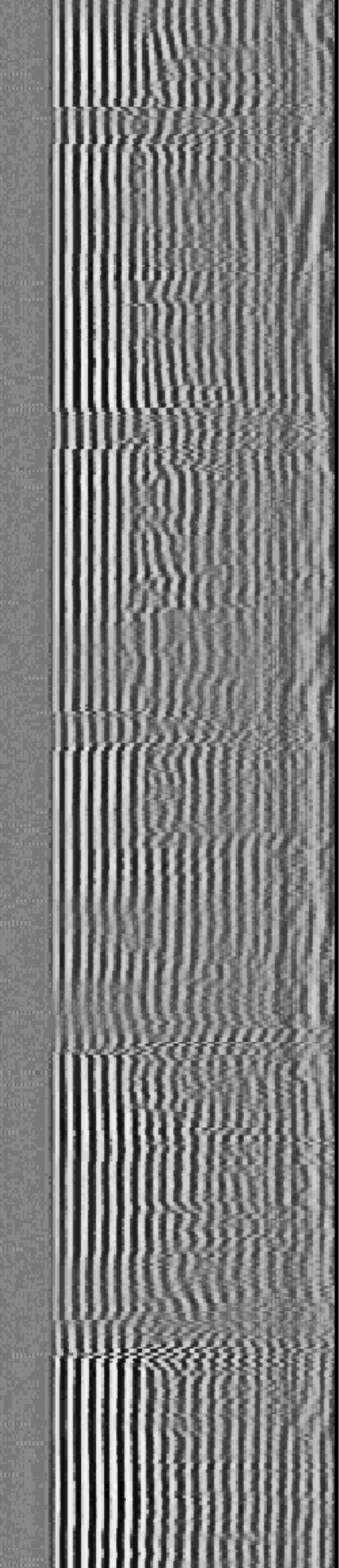
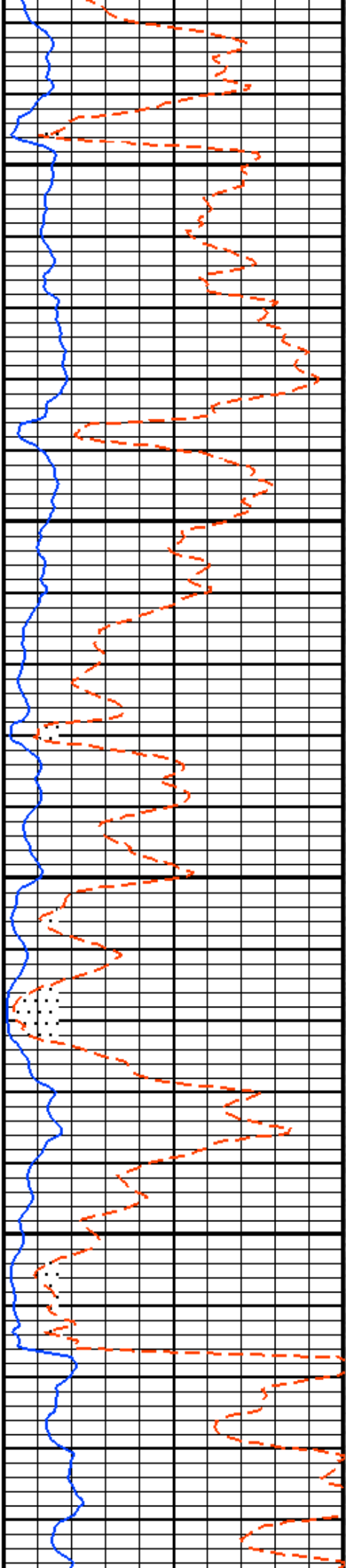
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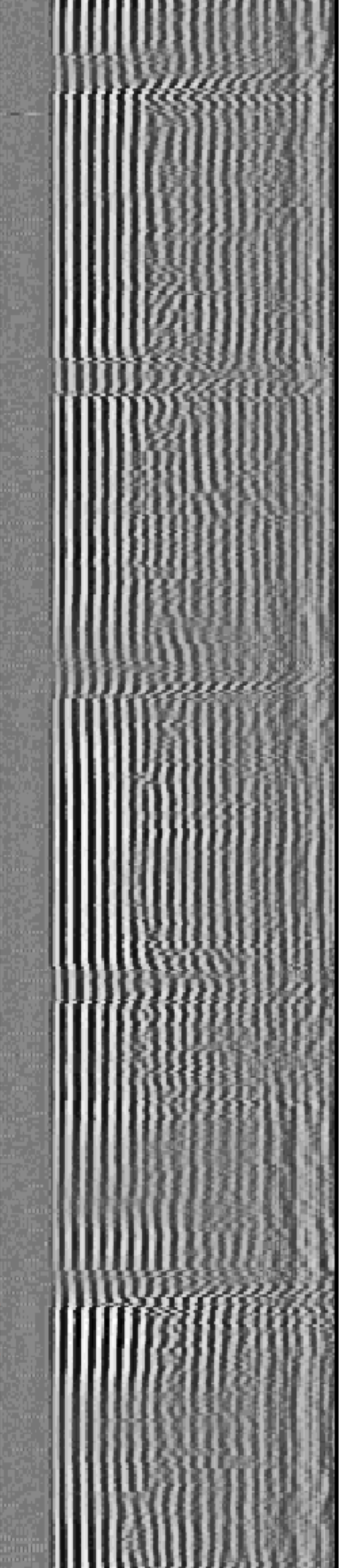
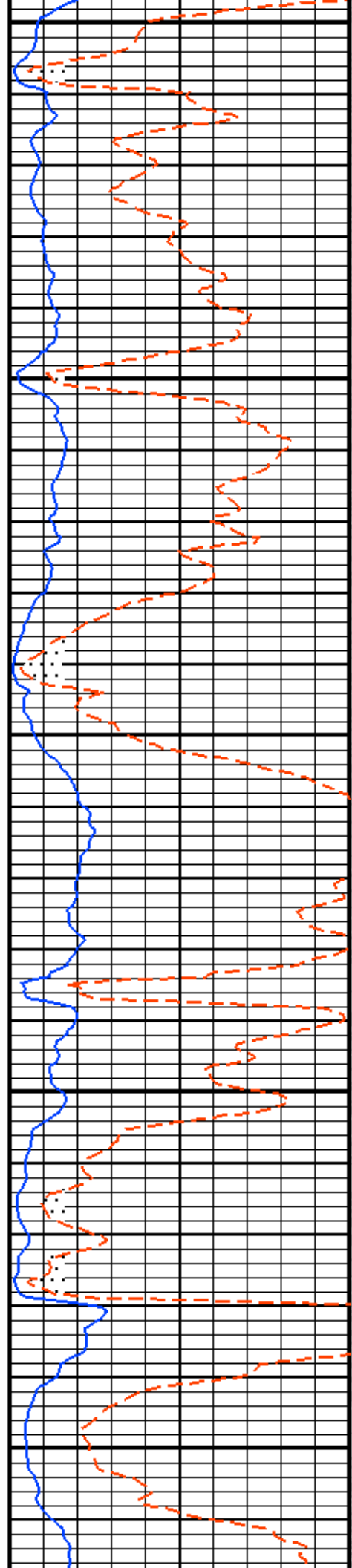
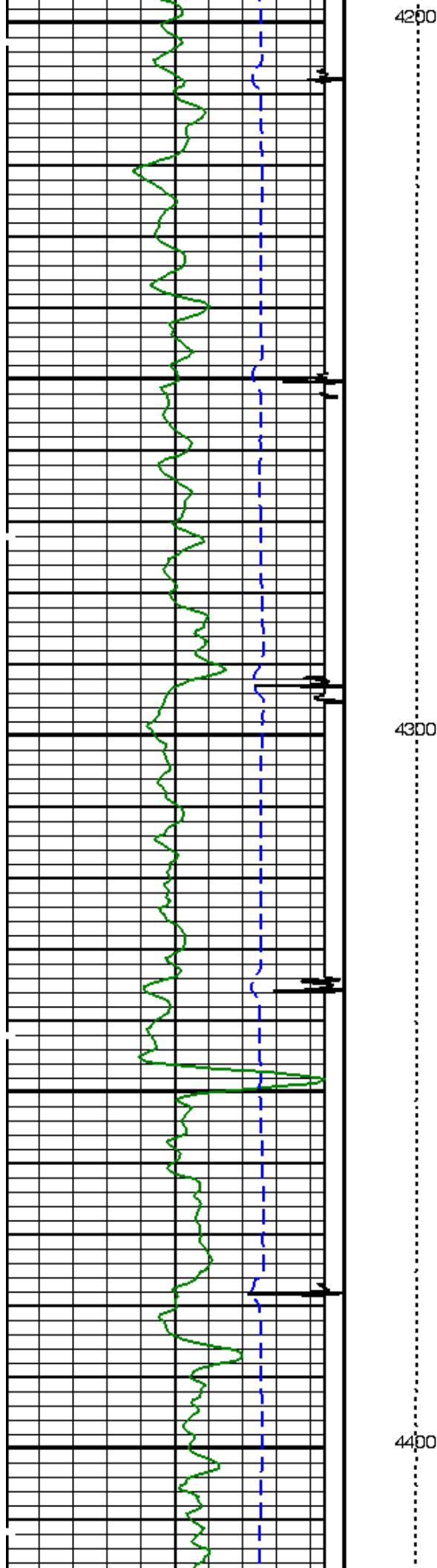




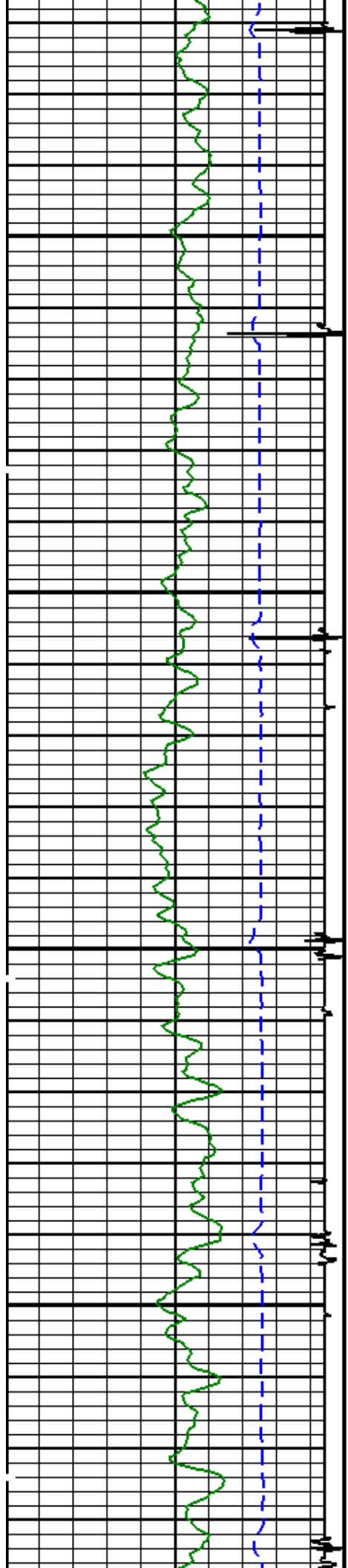
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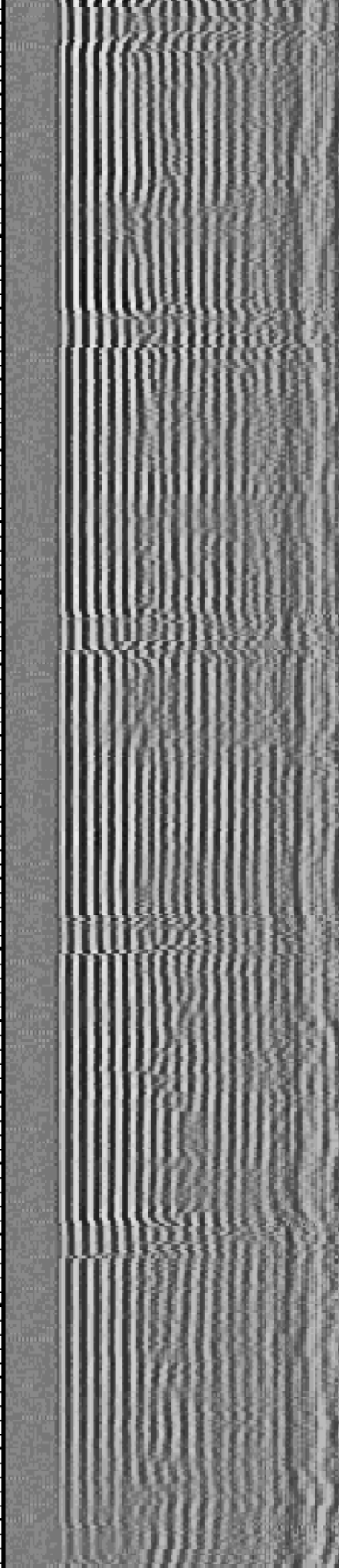
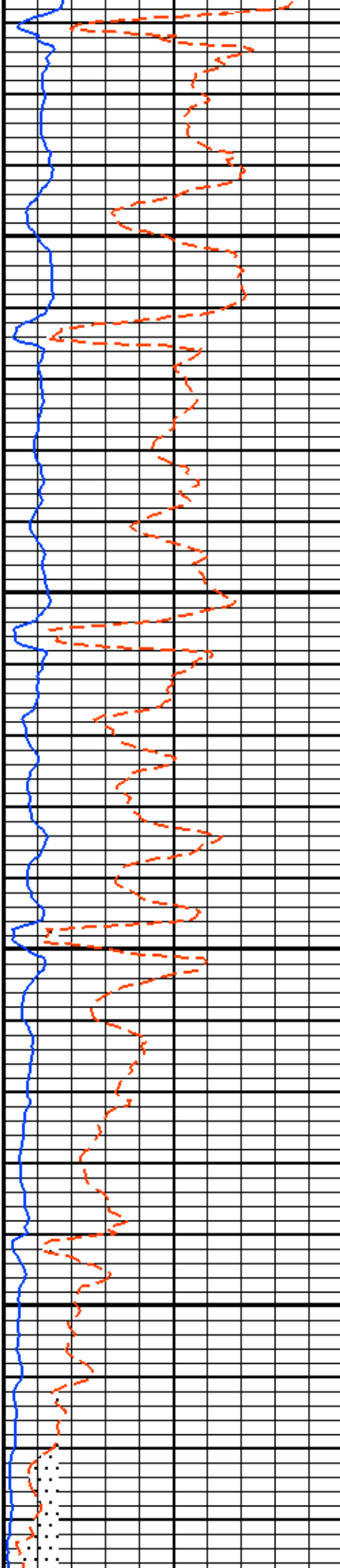


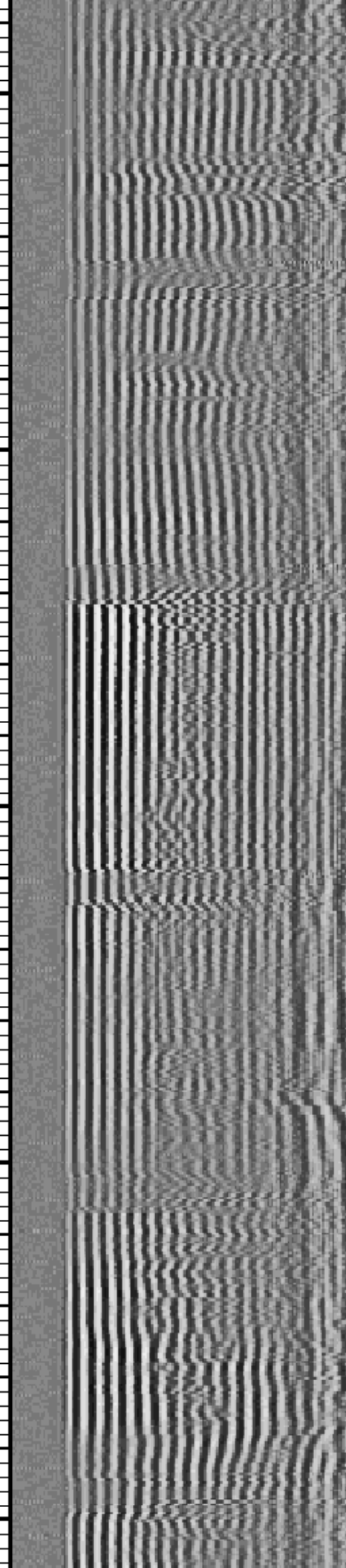
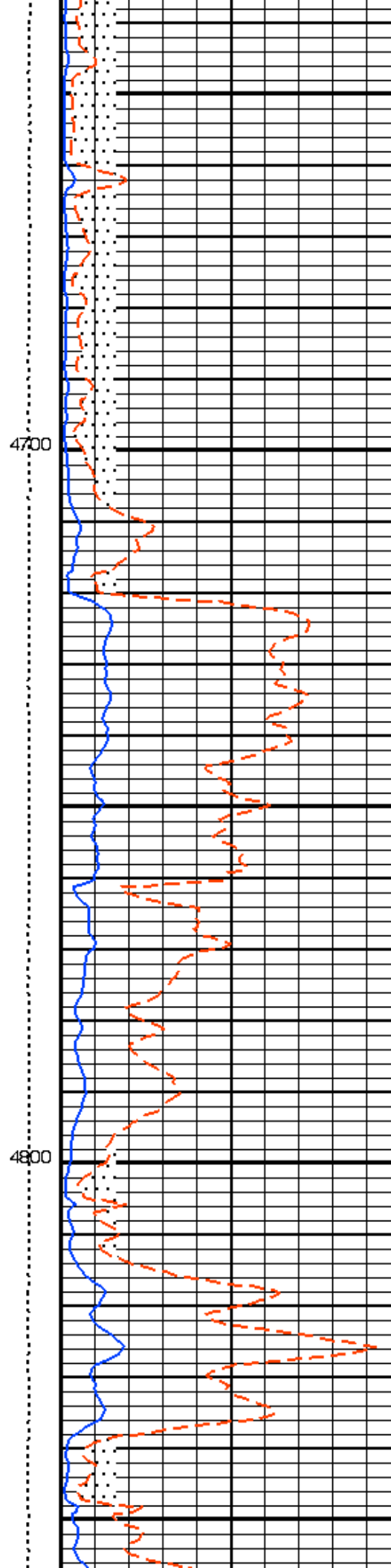
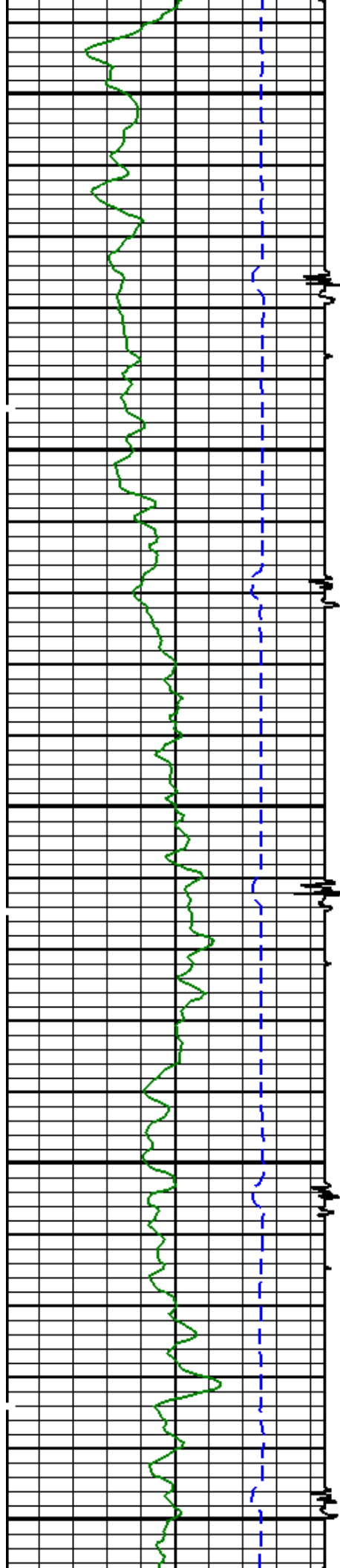


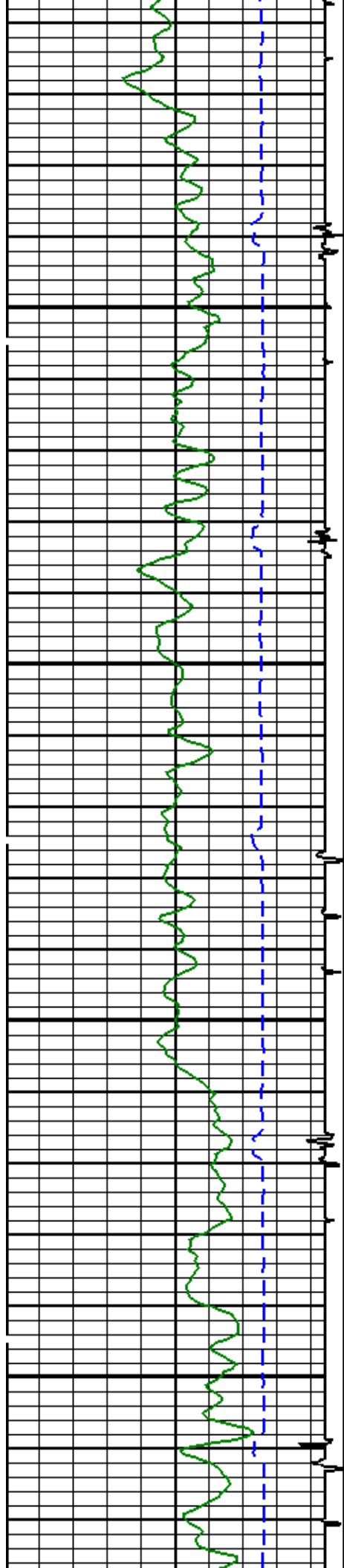


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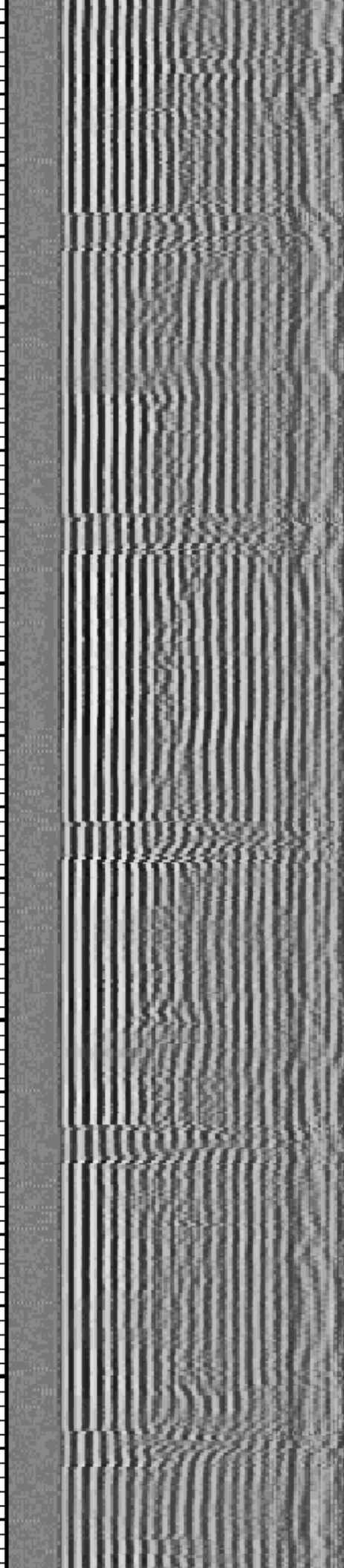
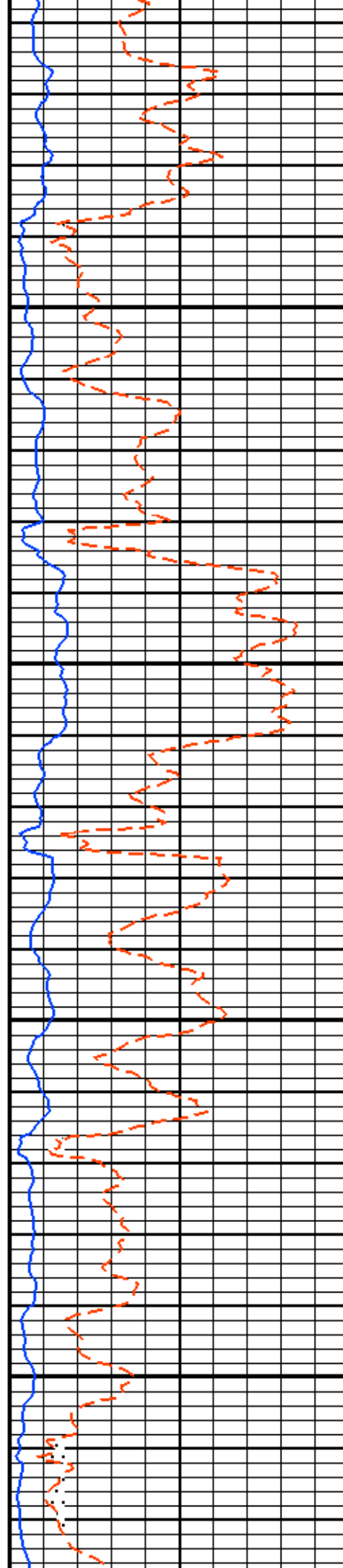


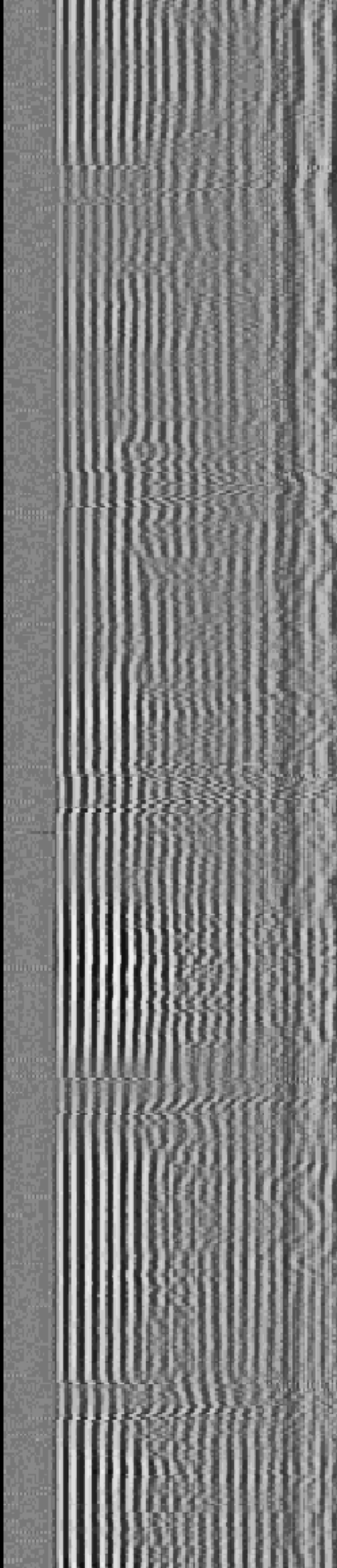
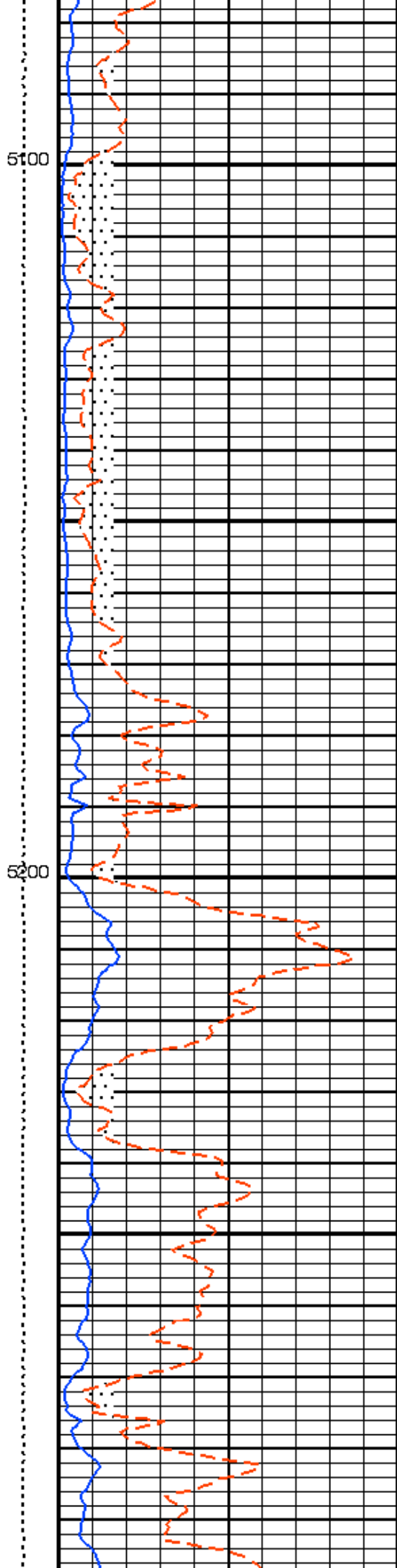
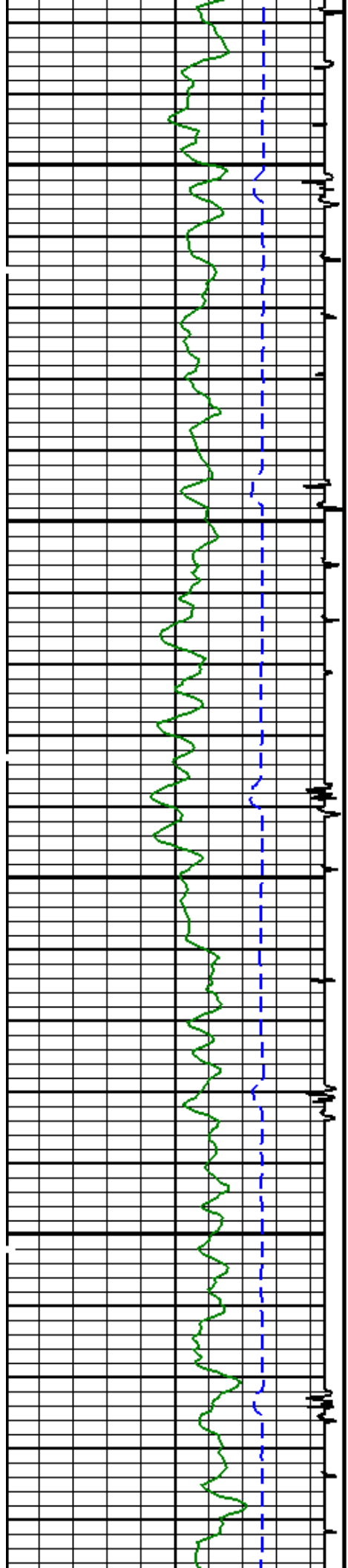




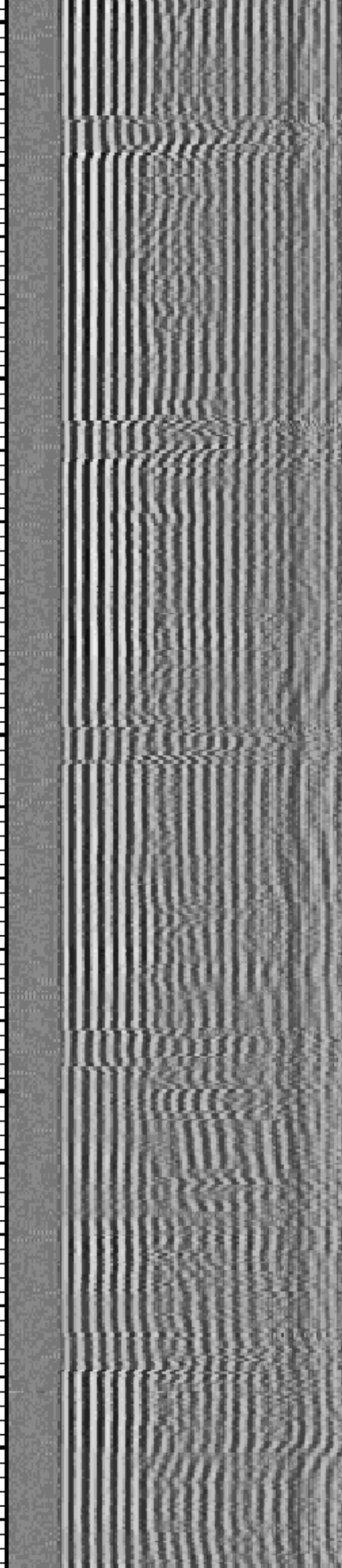
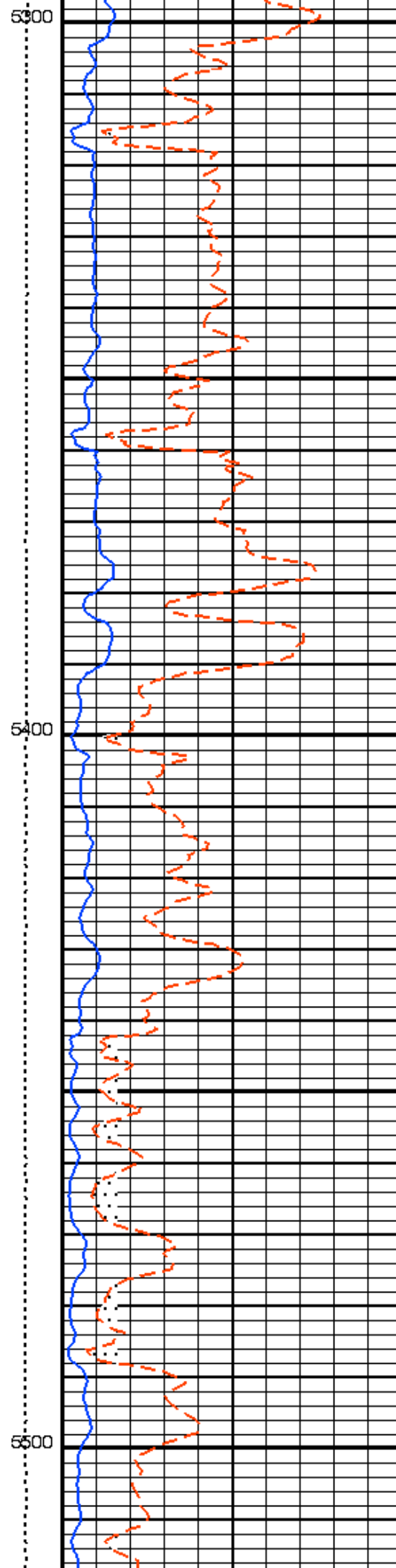
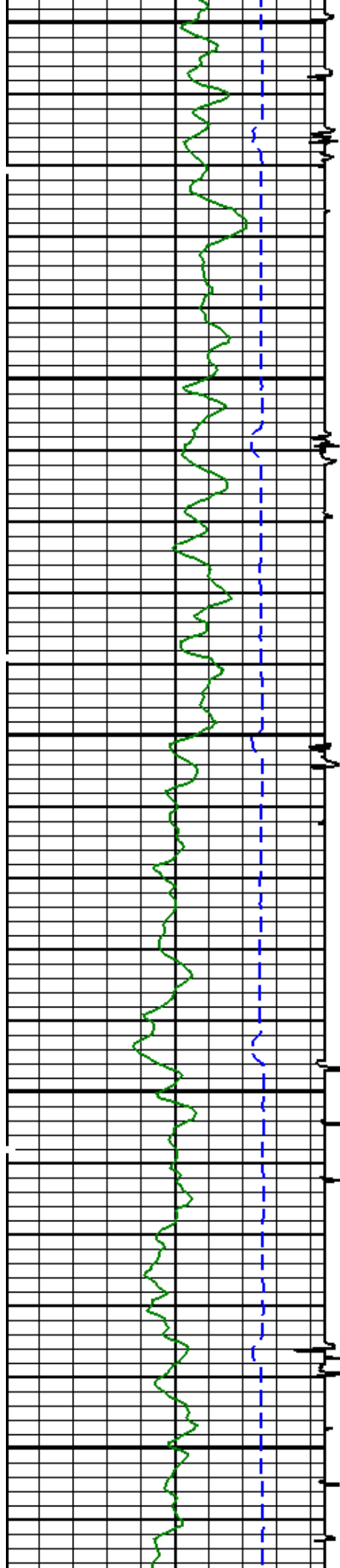
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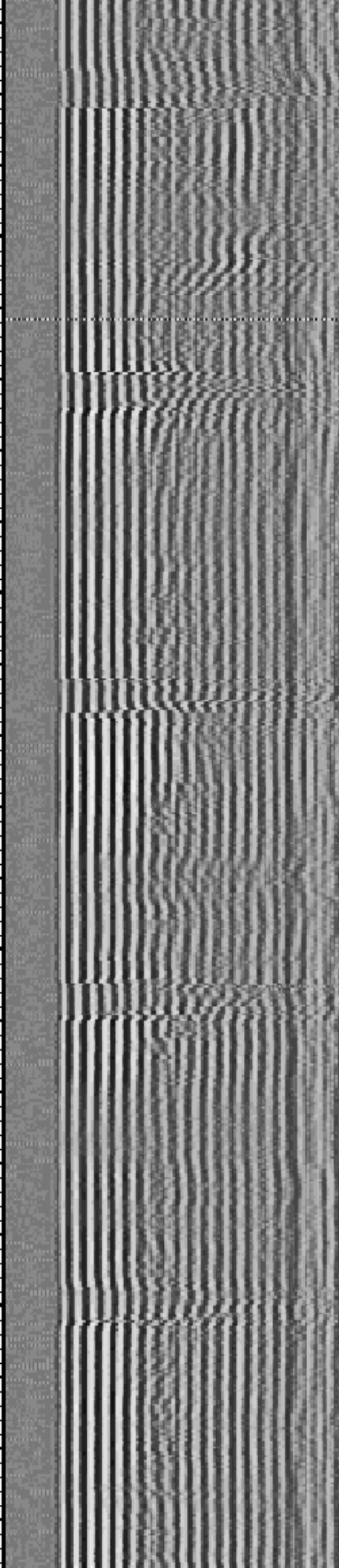
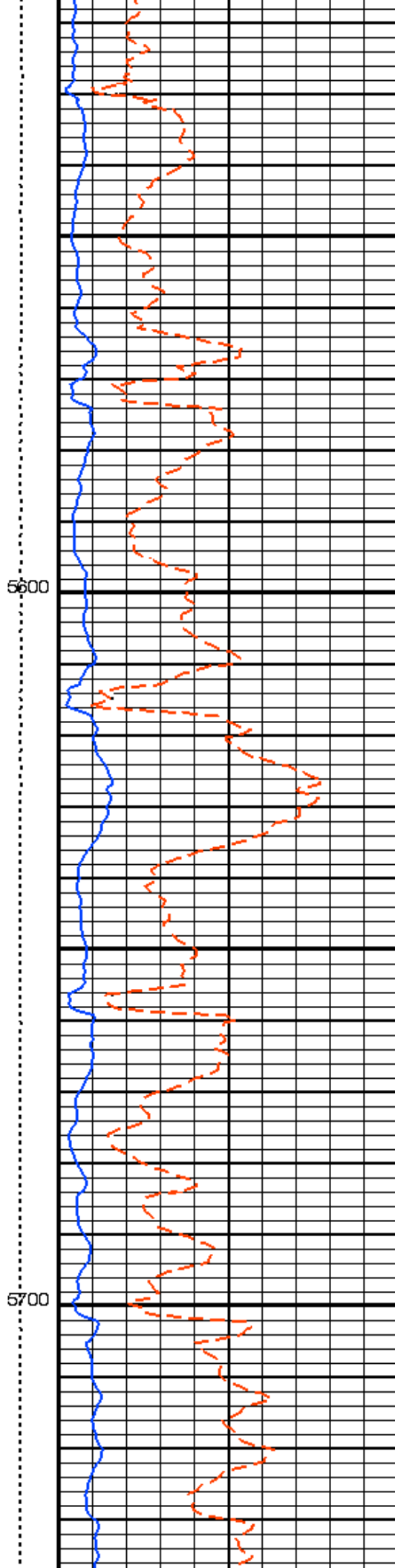
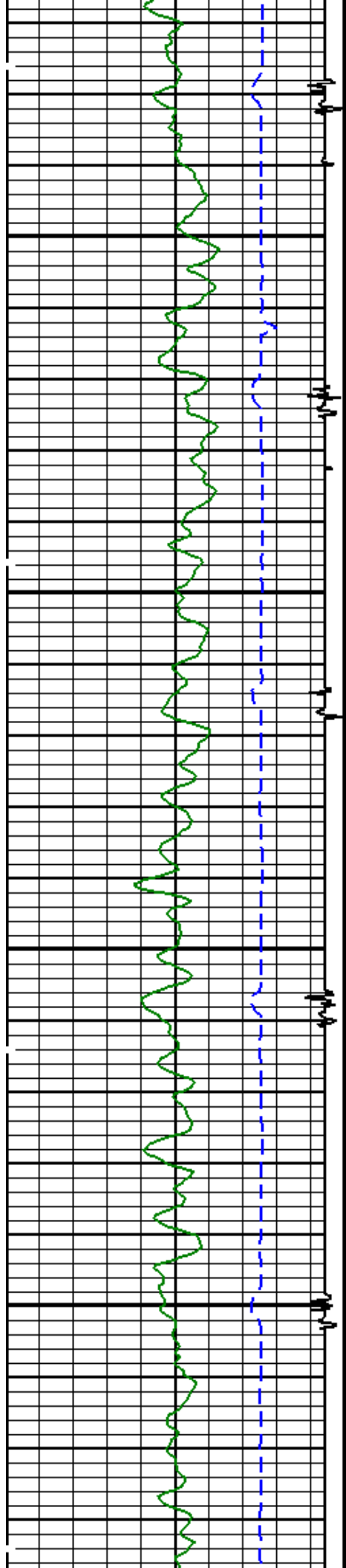
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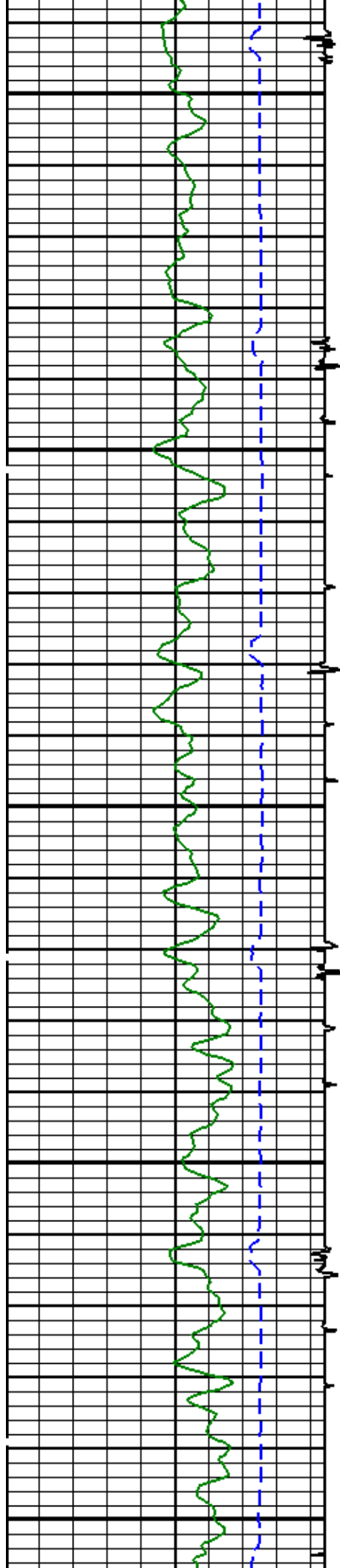






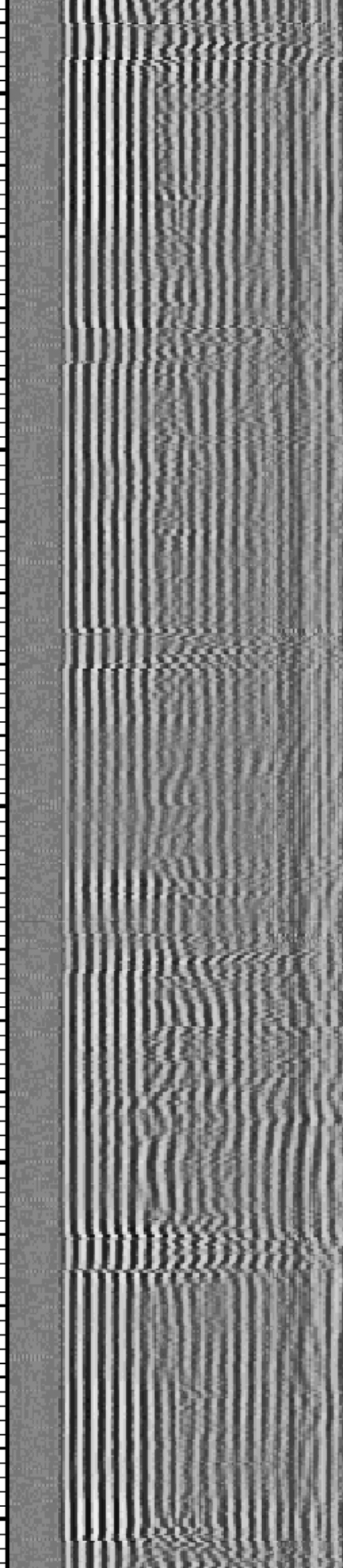
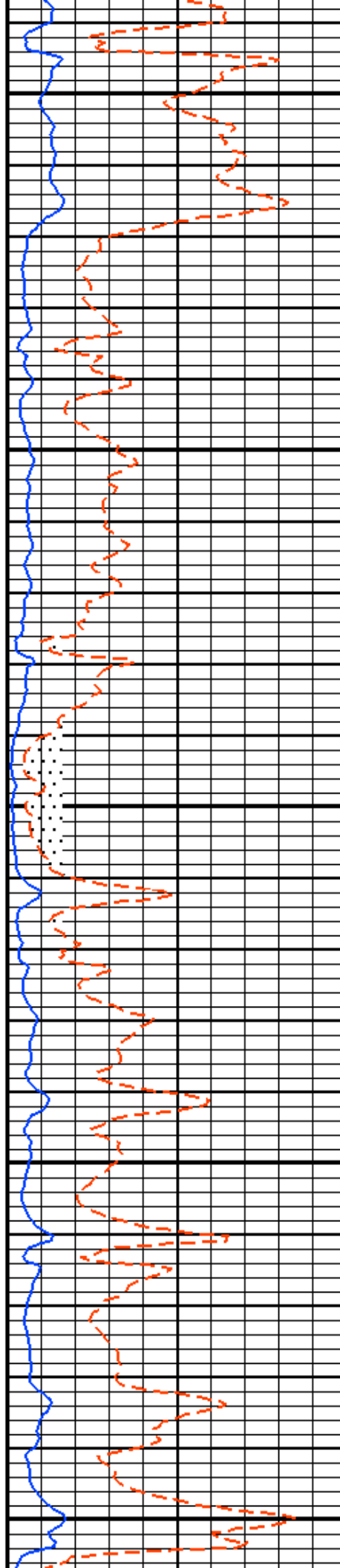


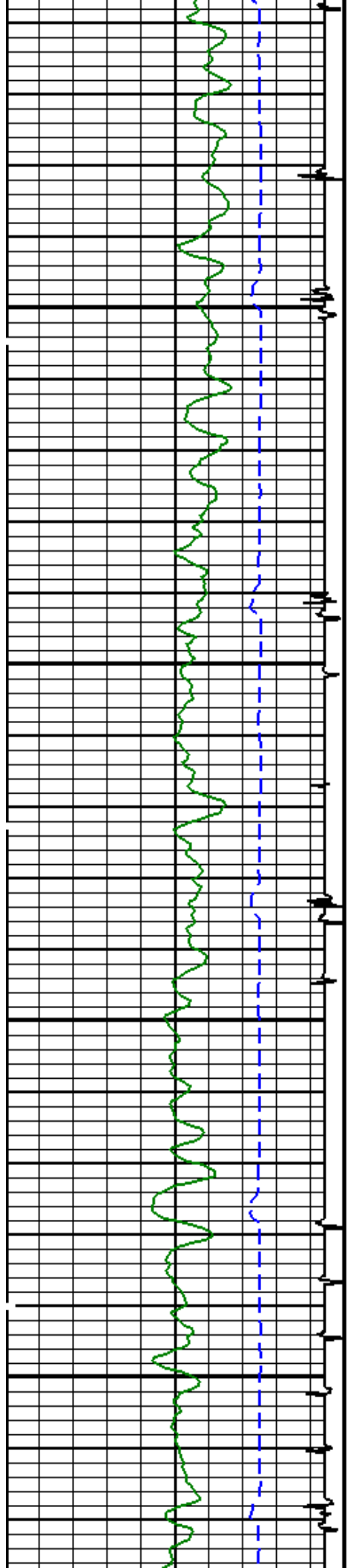




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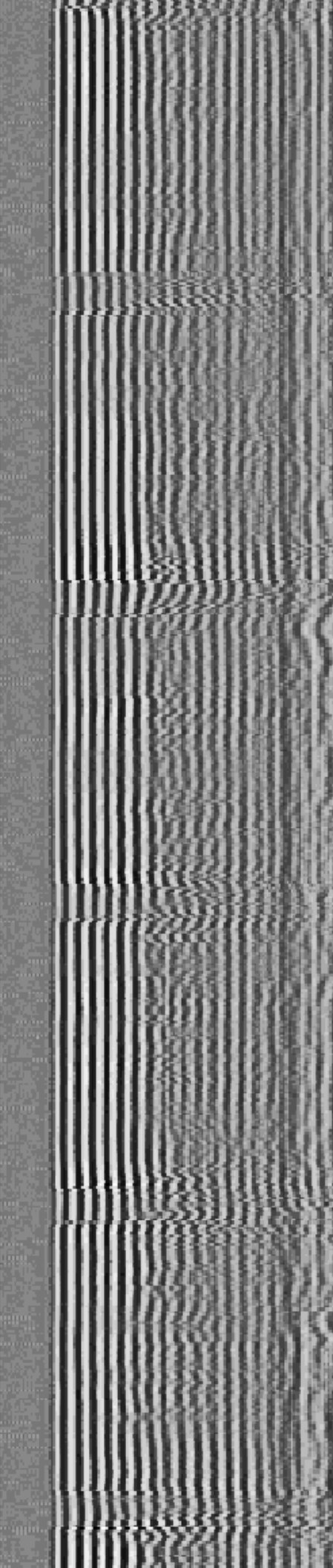
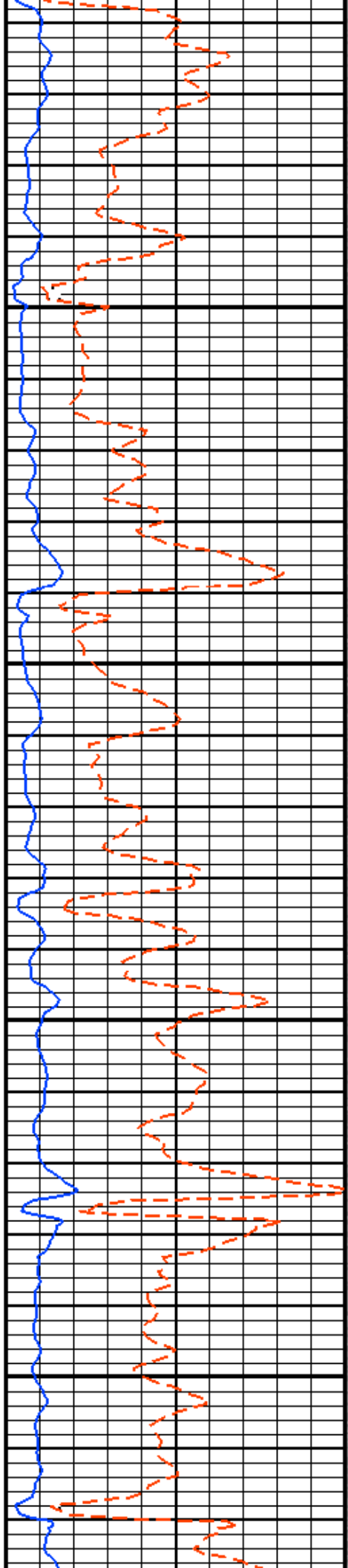
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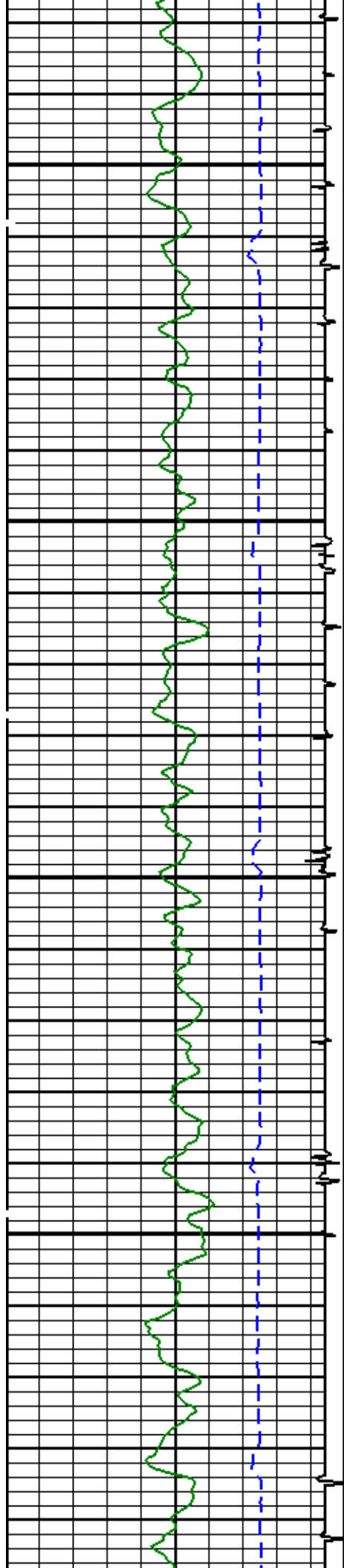


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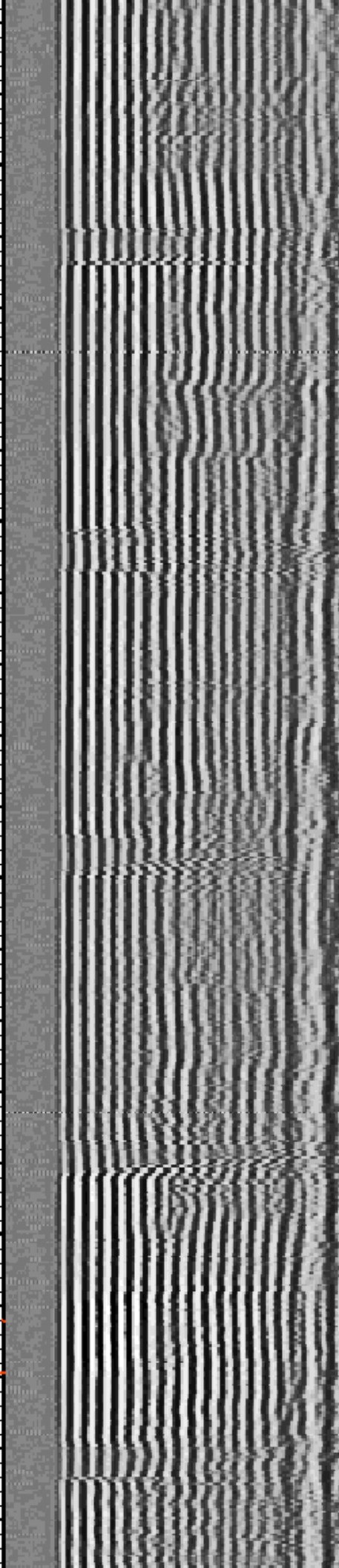
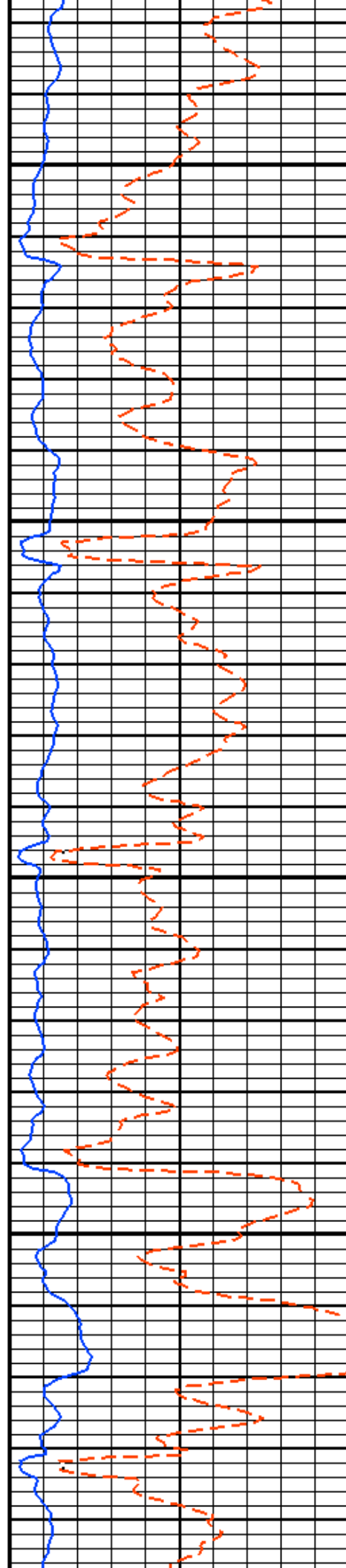


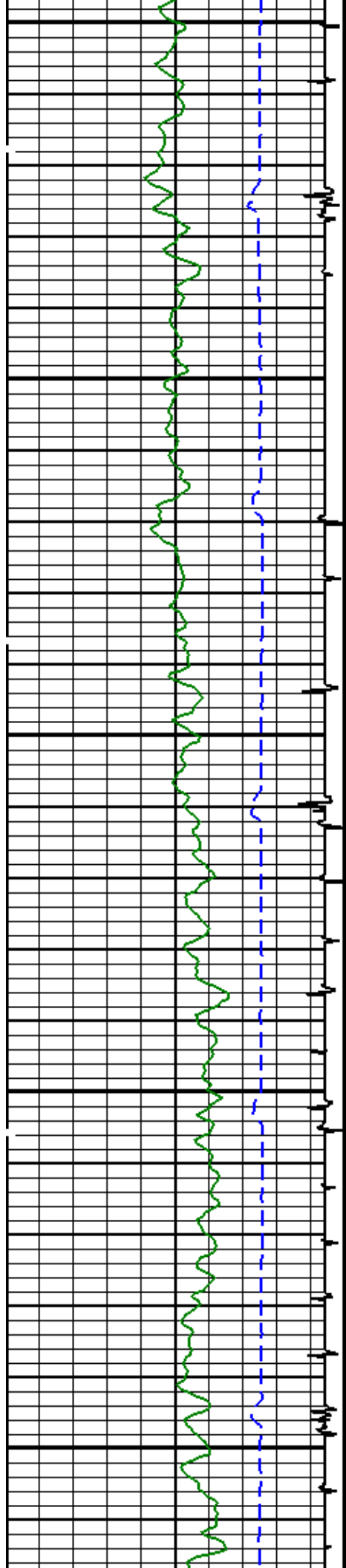




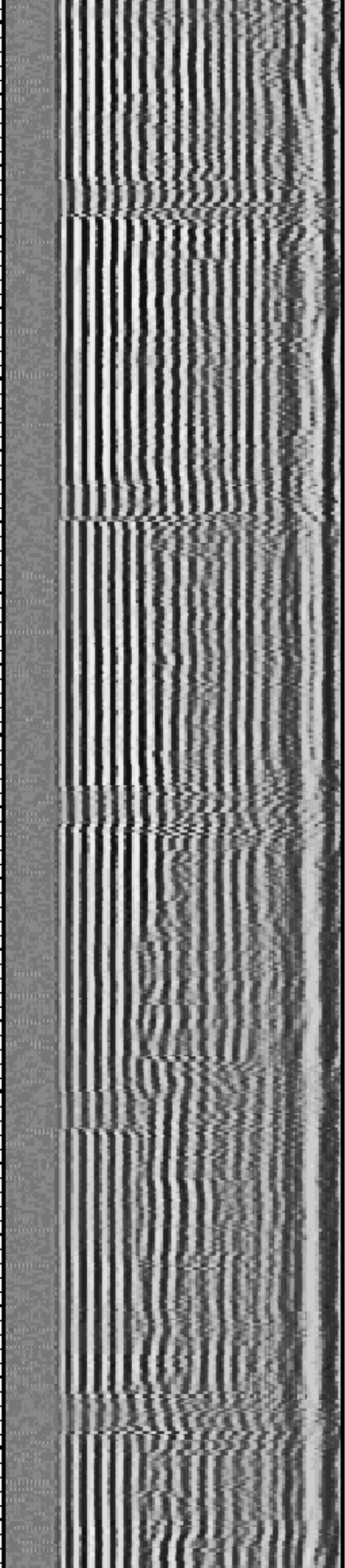
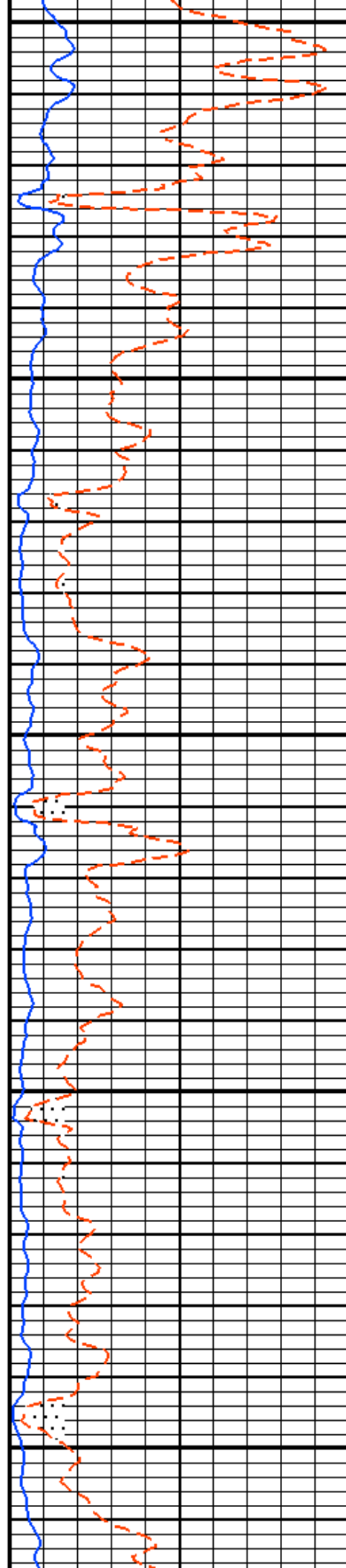
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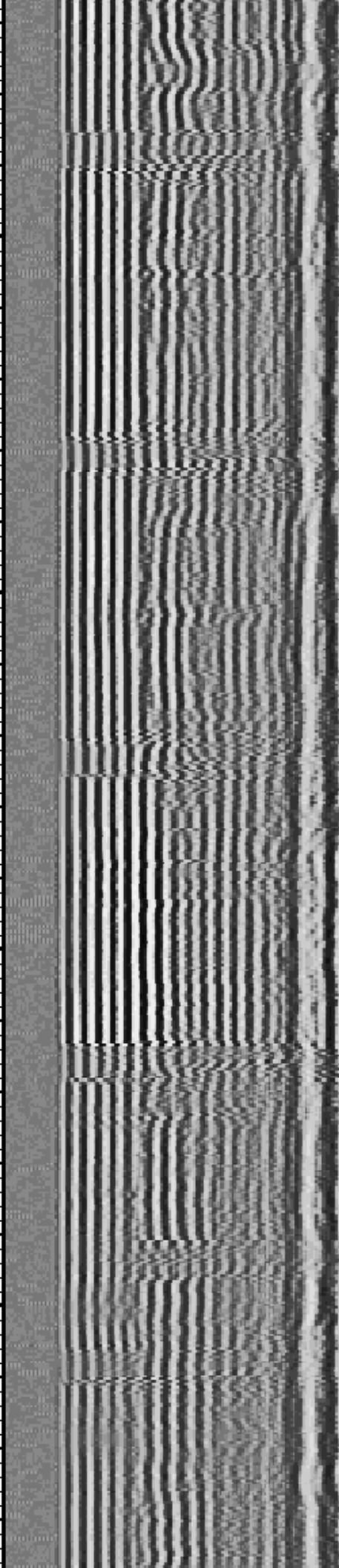
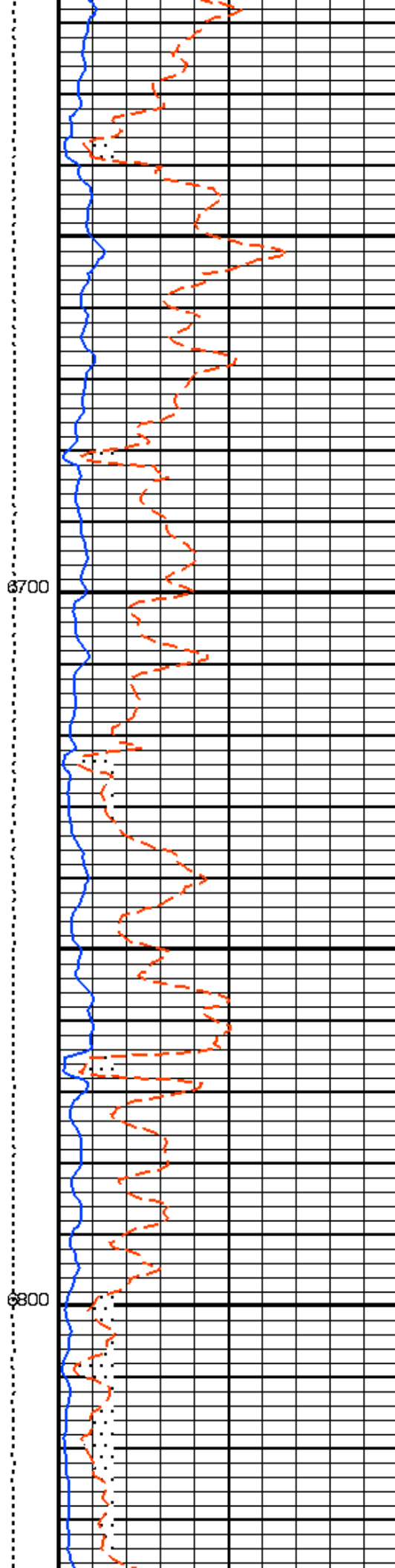
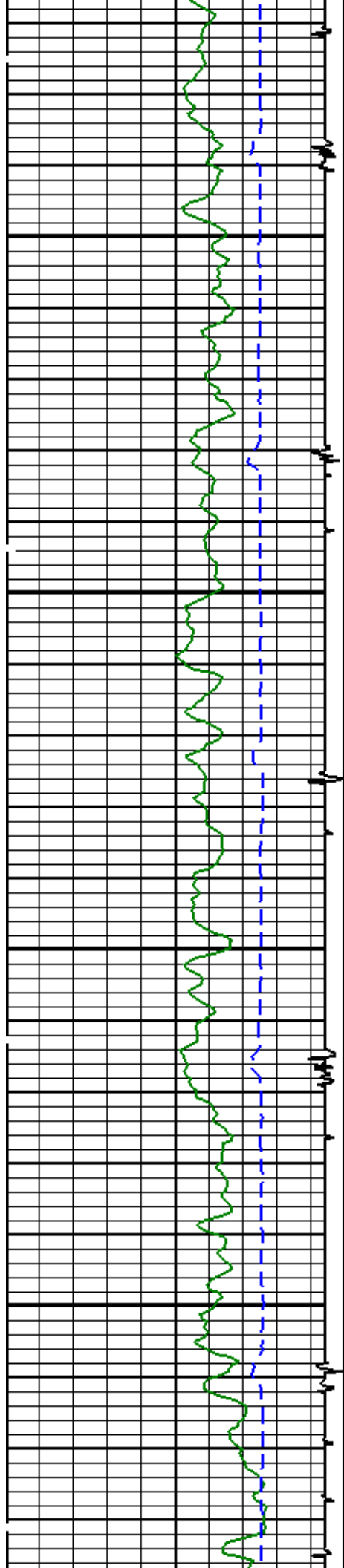
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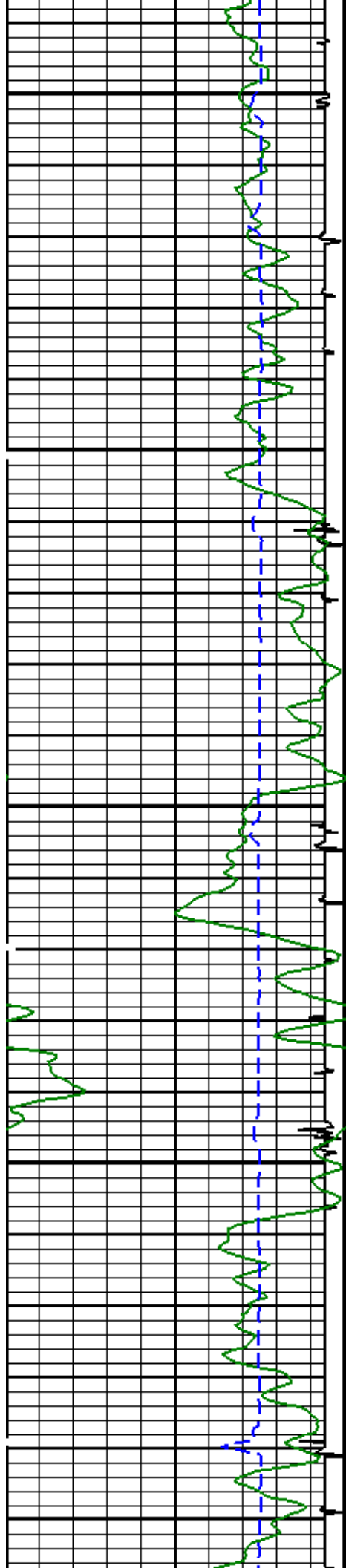




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6500  
6600

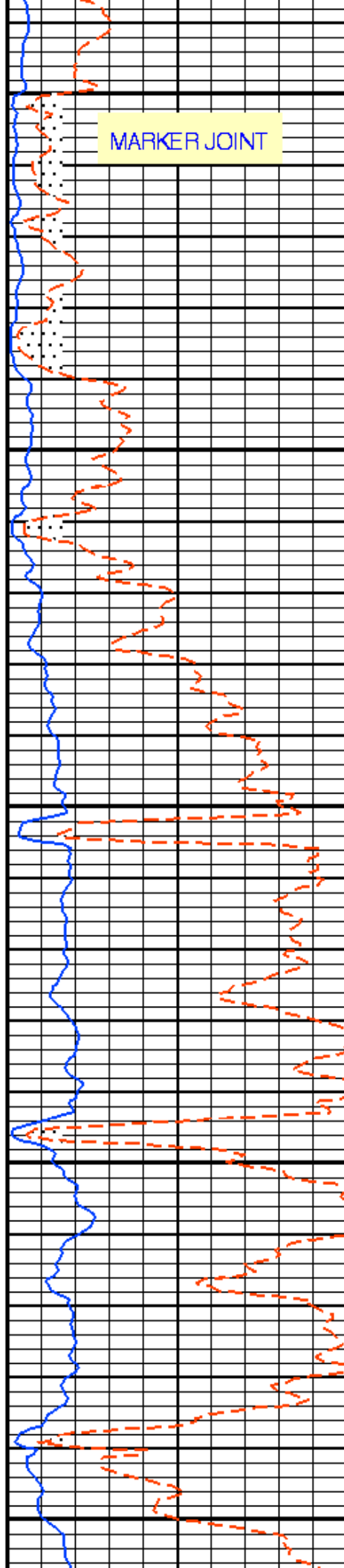




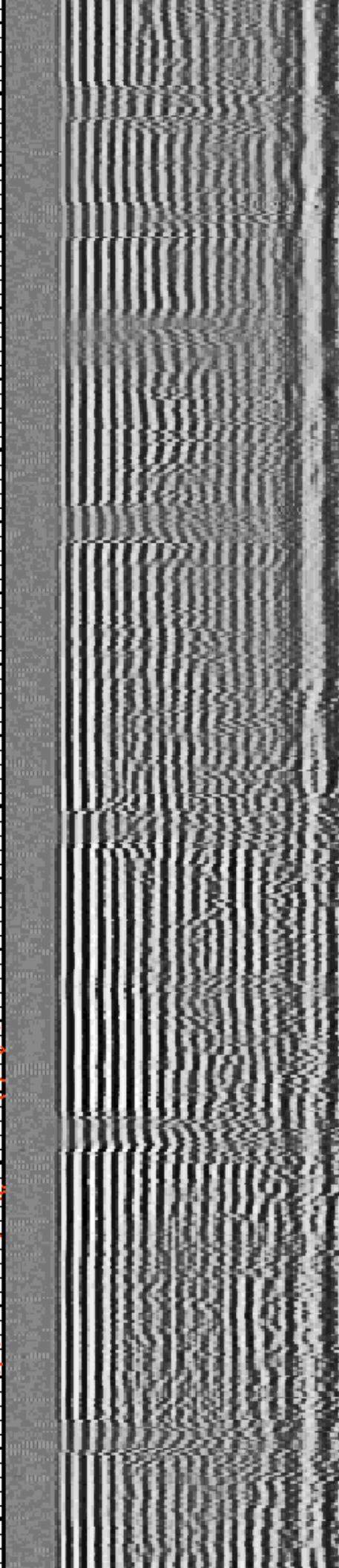


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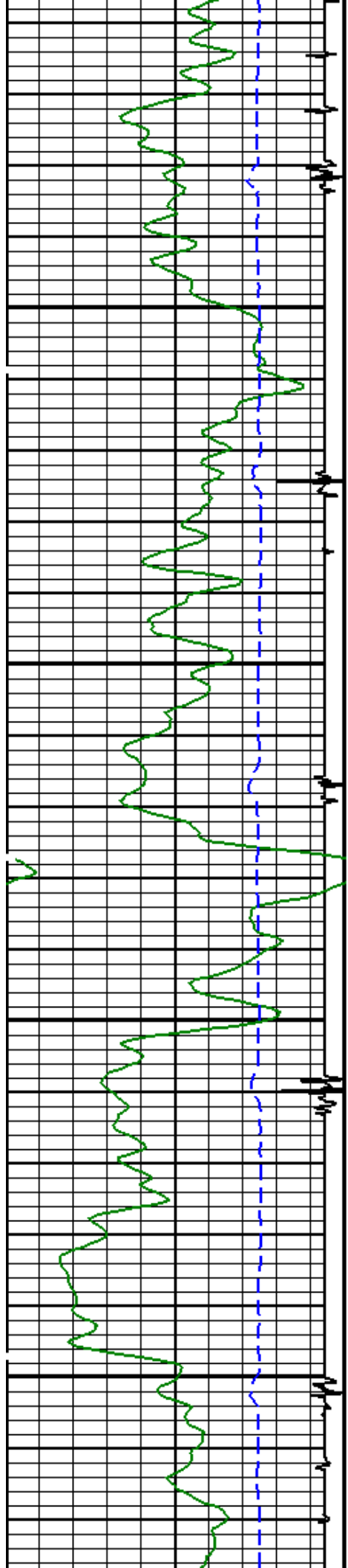
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MARKER JOINT

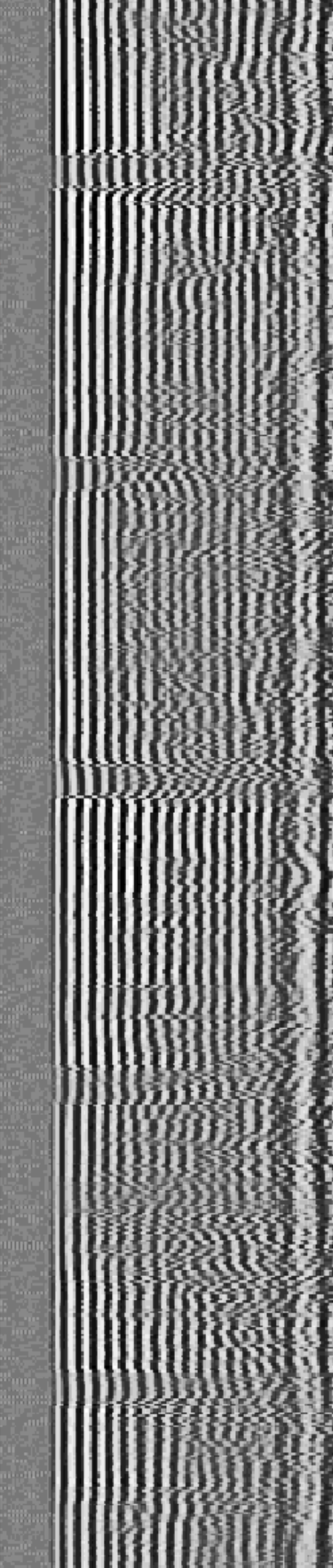
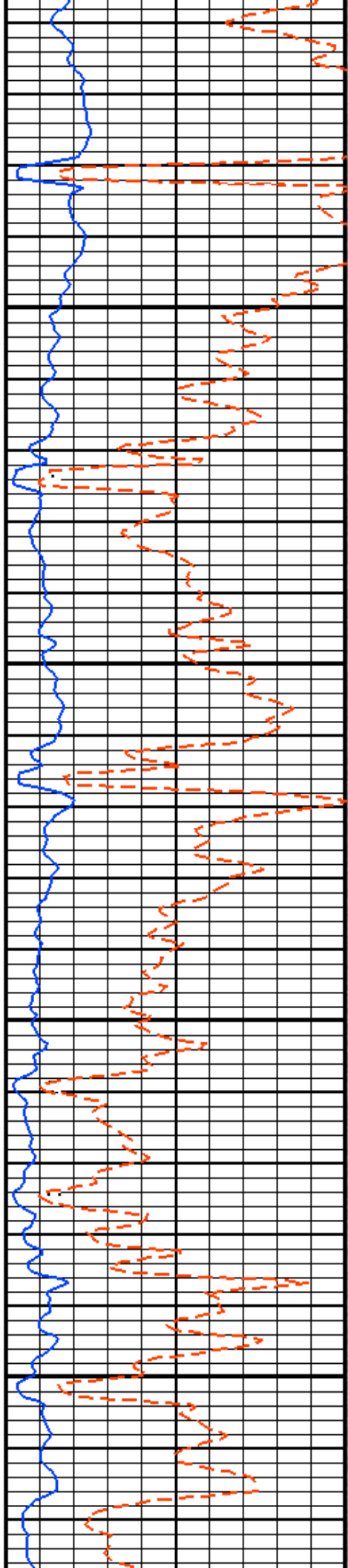


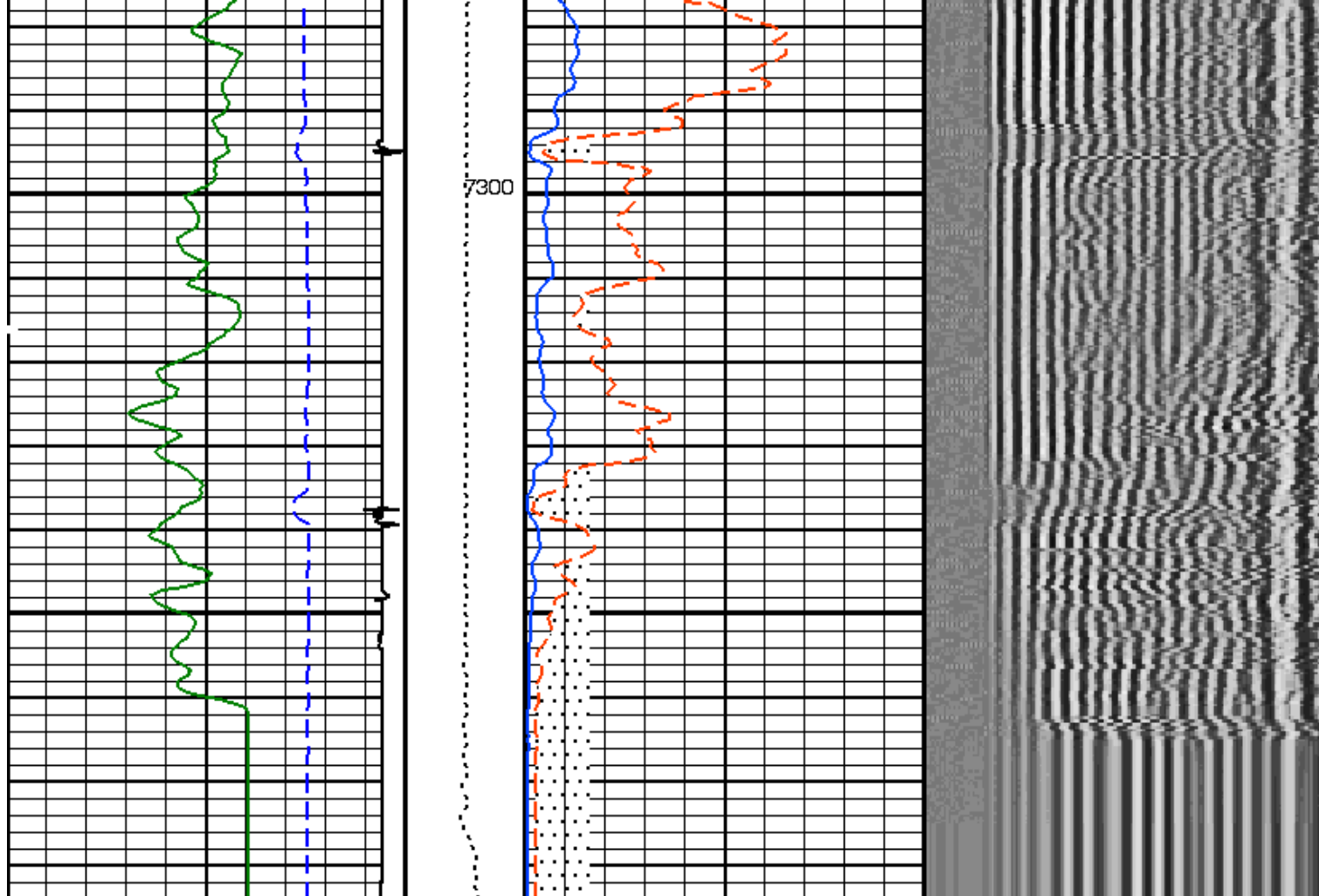




7100

7200





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#### PIP SUMMARY

Time Mark Every 60 S

#### Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0 Delay and Noise Gate	228.424	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0 Delay and Noise Gate	342.424	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	0.103771	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F

FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0 Delay and Noise Gate	171.424	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	9.4256	DB/F
MCCF	MAP Cement Type Compensation Factor	0.235528	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	3.2	MRAY
System and Miscellaneous			
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

Format: CBL\_VDL Vertical Scale: 5" per 100'

Graphics File Created: 18-Nov-2013 13:34

## OP System Version: 19C2-270

SCMT-CB 19C2-270 PSPT 19C2-270

### Input DLIS Files

DEFAULT SCMT\_PSP\_005LUP FN:4 PRODUCER 18-Nov-2013 09:13 7384.0 FT 29.6 FT

### Output DLIS Files

DEFAULT SCMT\_PSP\_009PUP FN:8 PRODUCER 18-Nov-2013 13:34

**Schlumberger**

**REPEAT PASS**

MAXIS Field Log

Company: Bayswater Exploration and Production

Well: MSH Farms 13-15

### Input DLIS Files

DEFAULT SCMT\_PSP\_004LUP FN:3 PRODUCER 18-Nov-2013 09:05 7387.5 FT 7083.6 FT

### Output DLIS Files

DEFAULT SCMT\_PSP\_008PUP FN:7 PRODUCER 18-Nov-2013 13:33 7387.5 FT 7084.0 FT

## OP System Version: 19C2-270

SCMT-CB 19C2-270 PSPT 19C2-270

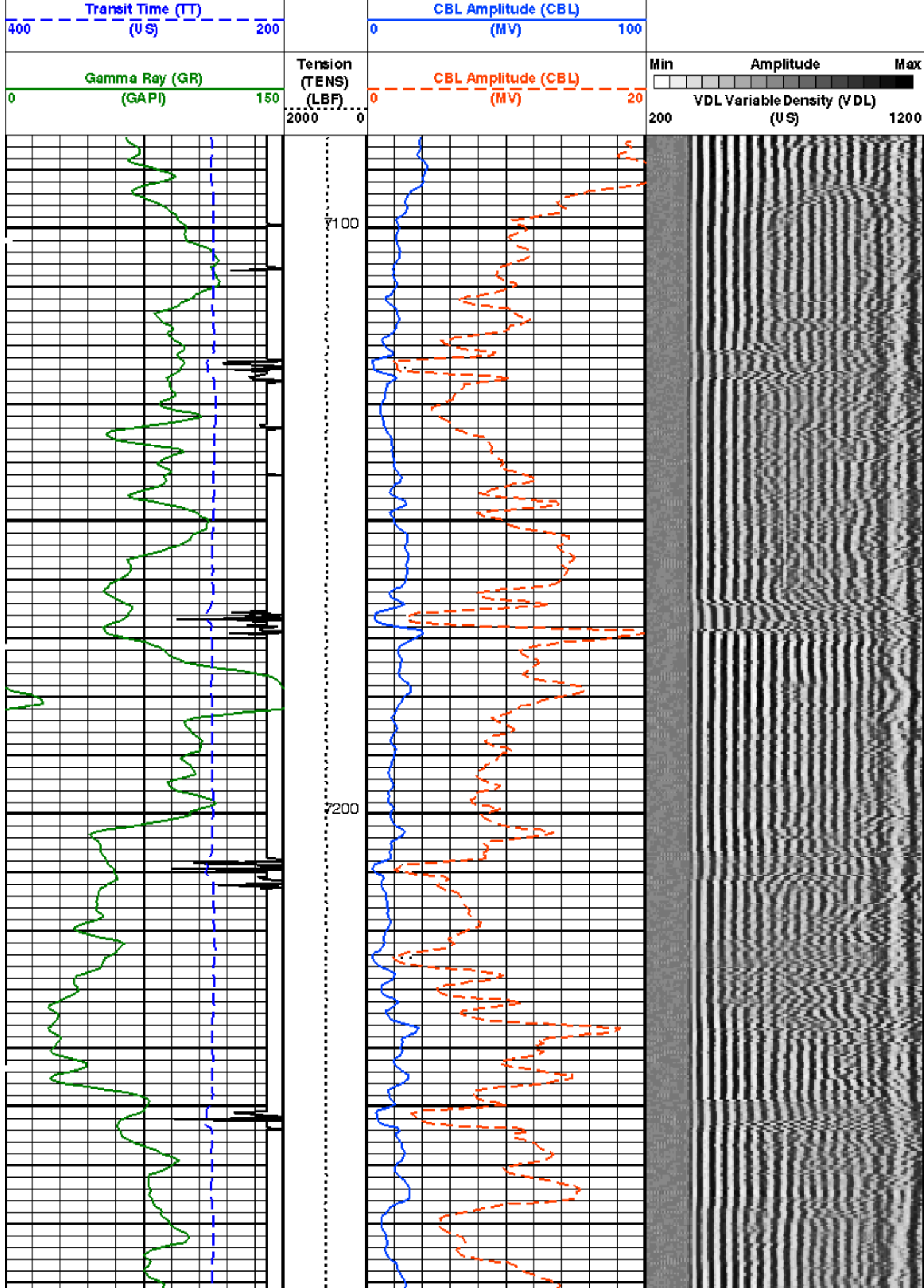
### PIP SUMMARY

Time Mark Every 60 S

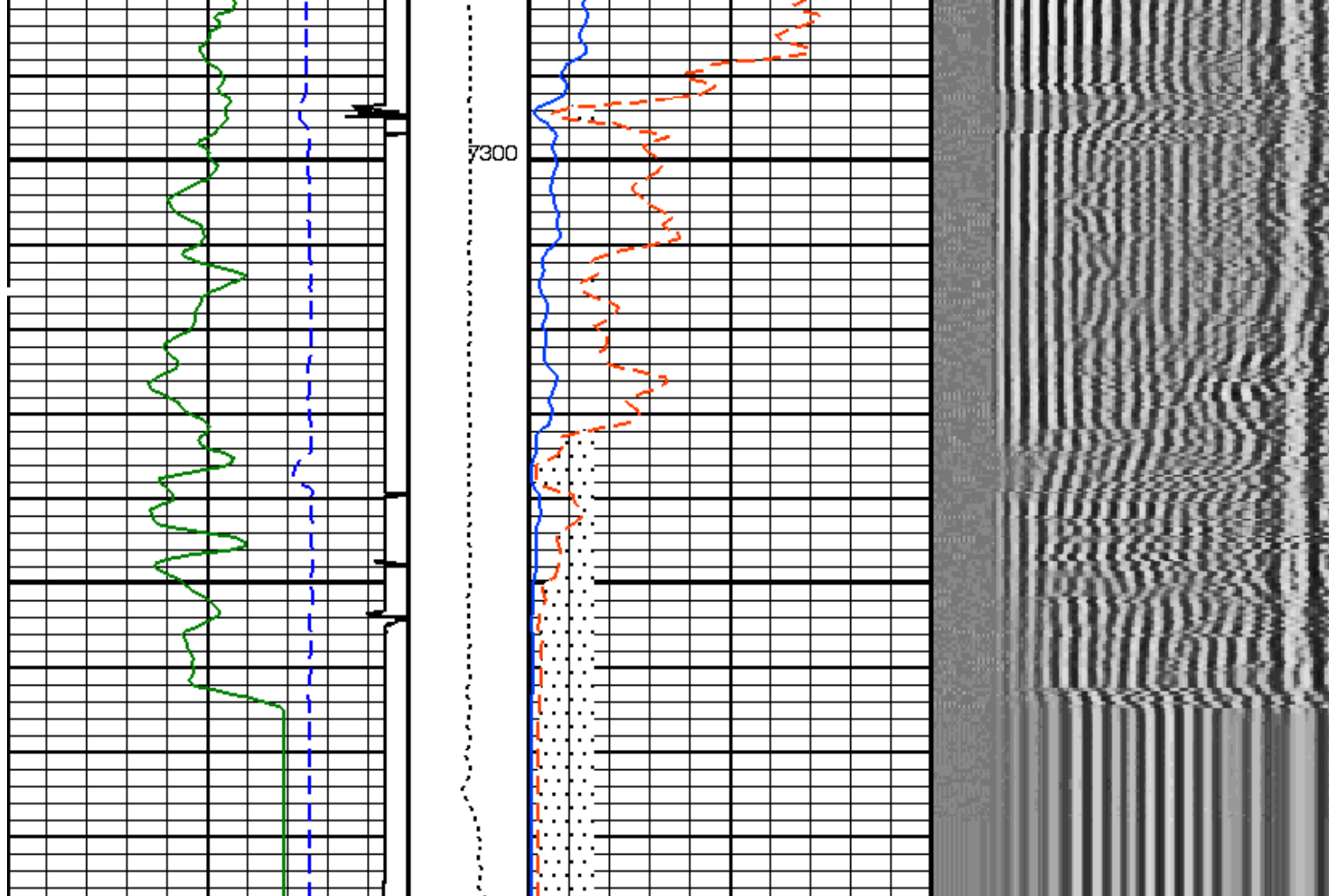
Discriminated CCL  
(CCLD)  
-3.5 (V) 0.5

COLLARS  
From CCLD to T1

GOOD BOND  
From ACBL to GOBO







<div>Gamma Ray (GR)</div> <div>(GAPI)</div> <div>0150</div>		<div>Tension</div> <div>(TENS)</div> <div>(LBF)</div> <div>20000</div>	<div>CBL Amplitude (CBL)</div> <div>(MV)</div> <div>020</div>	<div>Min</div> <div>Amplitude</div> <div>Max</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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#### PIP SUMMARY

Time Mark Every 60 S

#### Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0 Delay and Noise Gate	228.424	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0 Delay and Noise Gate	342.424	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	0.103771	
CMTG	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F

RCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0 Delay and Noise Gate	171.424	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	9.4256	DB/F
MCCF	MAP Cement Type Compensation Factor	0.235528	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	3.2	MRAY
System and Miscellaneous			
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

Format: CBL\_VDL    Vertical Scale: 5" per 100'

Graphics File Created: 18-Nov-2013 13:33

## OP System Version: 19C2-270

SCMT-CB      19C2-270      PSPT      19C2-270

### Input DLIS Files

DEFAULT      SCMT\_PSP\_004LUP      FN:3      PRODUCER      18-Nov-2013 09:05      7387.5 FT      7083.6 FT

### Output DLIS Files

DEFAULT      SCMT\_PSP\_008PUP      FN:7      PRODUCER      18-Nov-2013 13:33

Company: **Bayswater Exploration and Production**

**Schlumberger**

Well: **MSH Farms 13-15**

Field: **Wattenberg**

County: **Weld**

State: **Colorado**

CEMENT BOND

GAMMA RAY

CASING COLLAR LOG