



## DEPTH SUMMARY LISTING

Date Created: 26-FEB-2013 9:22:32

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25P
Serial Number:	6220	Serial Number:	3571	Serial Number:	383
Calibration Date:		Calibration Date:	24-JAN-2013	Length:	18000 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	787135		
Calibration Cable Type:	1-25P	Number of Calibration Points:	0	Conveyance Method:	Wireline
Wheel Correction 1:	-3			Rig Type:	LAND
Wheel Correction 2:	-4				

## 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
<b>Stretch Correction:</b>	
Tool Zero Check At Surface:	

### Depth Control Remarks

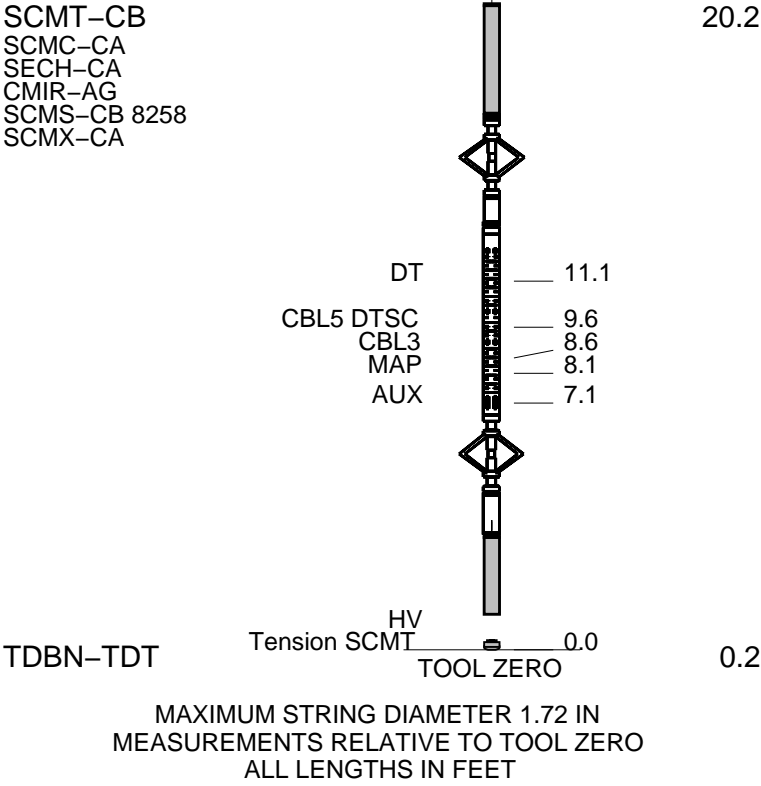
1. IDW WHEELS PRIMARY DEPTH CONTROL
2. DRUM COUNTER USED AS SECONDARY DEPTH CONTROL
- 3.
- 4.
- 5.
- 6.

## DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: RST	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
CORRELATED TO TRIPLE COMBO	
RAN ON 20-FEB-2013 BY SCHLUMBERGER	
REPPEAT AND MAIN PASS	





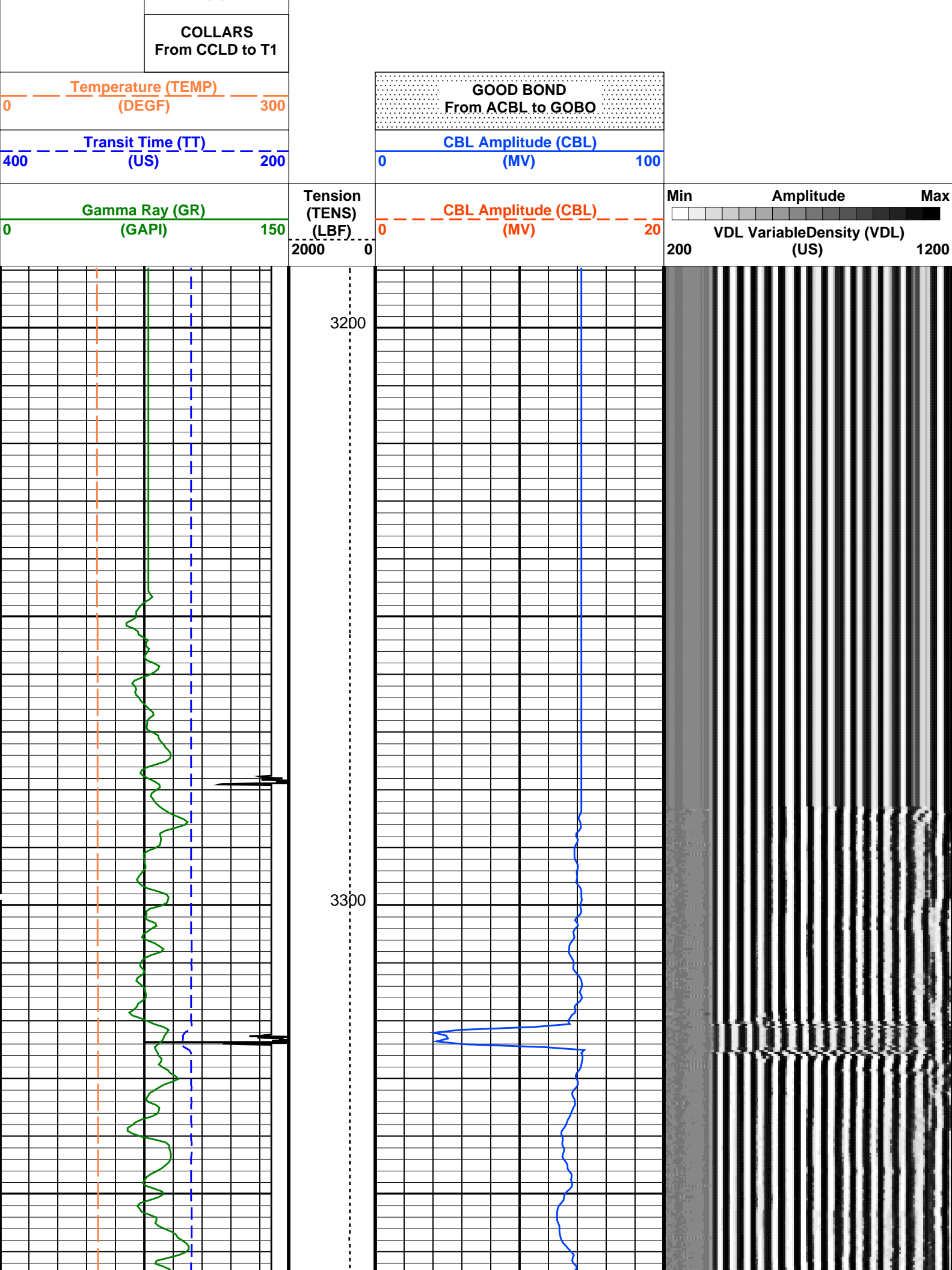
Schlumberger

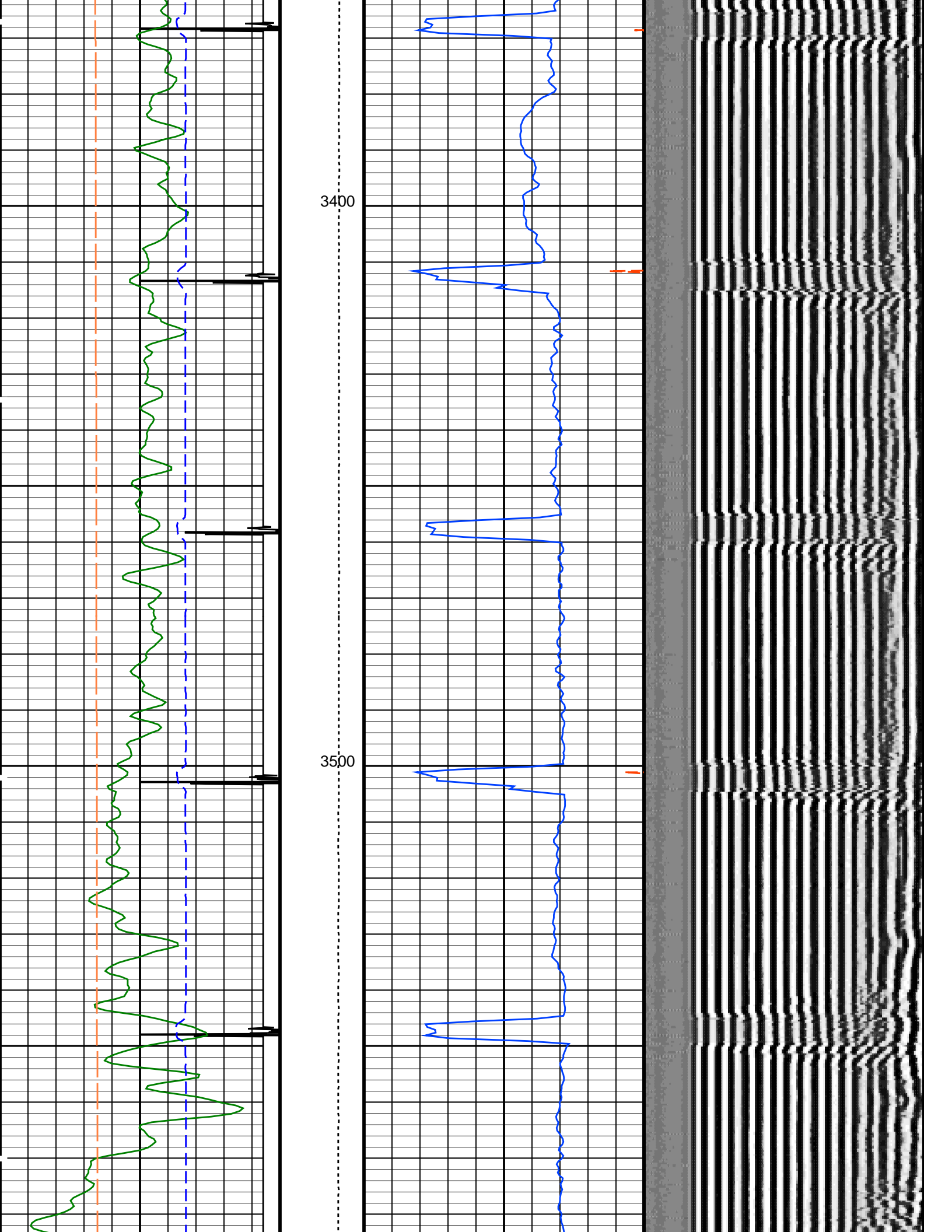
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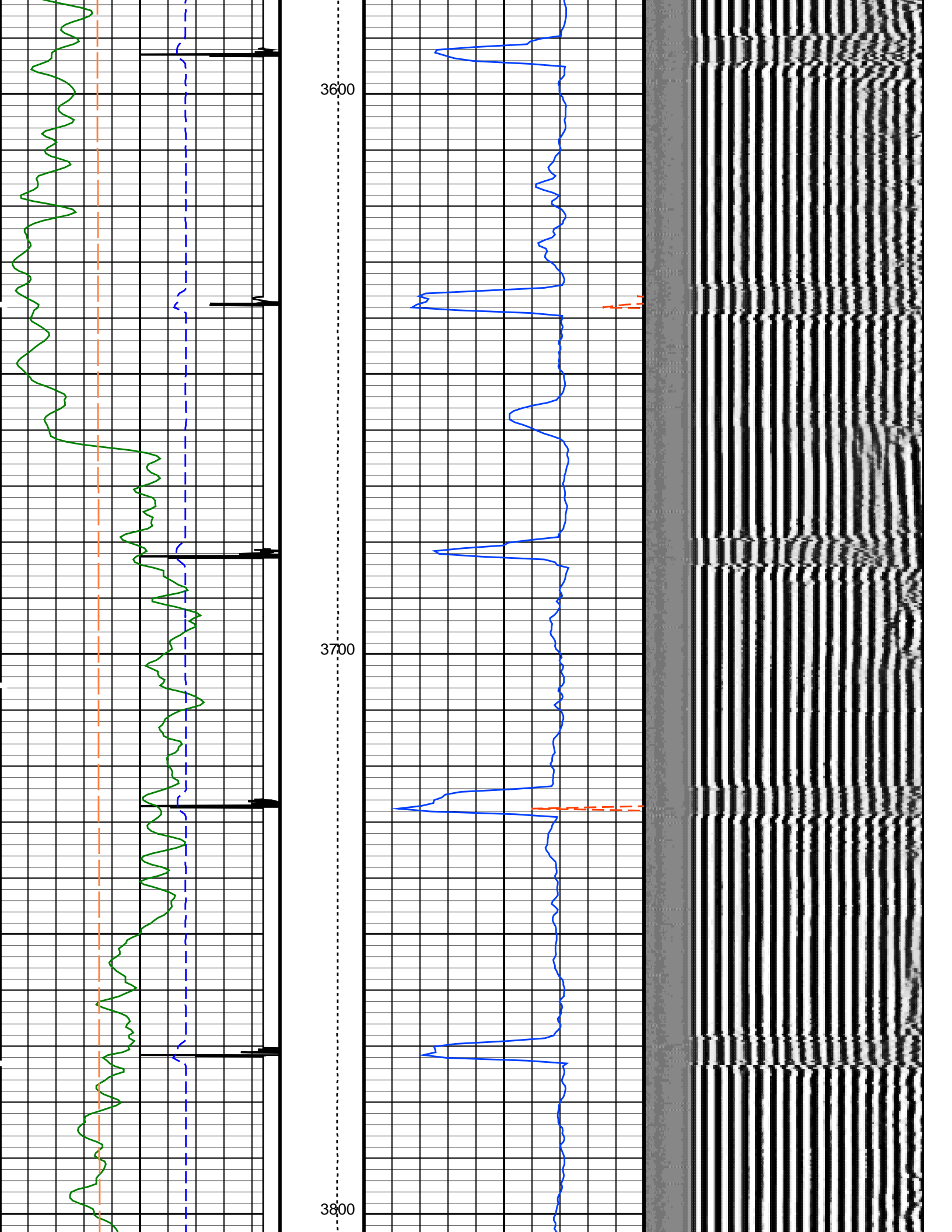
MAXIS Field Log

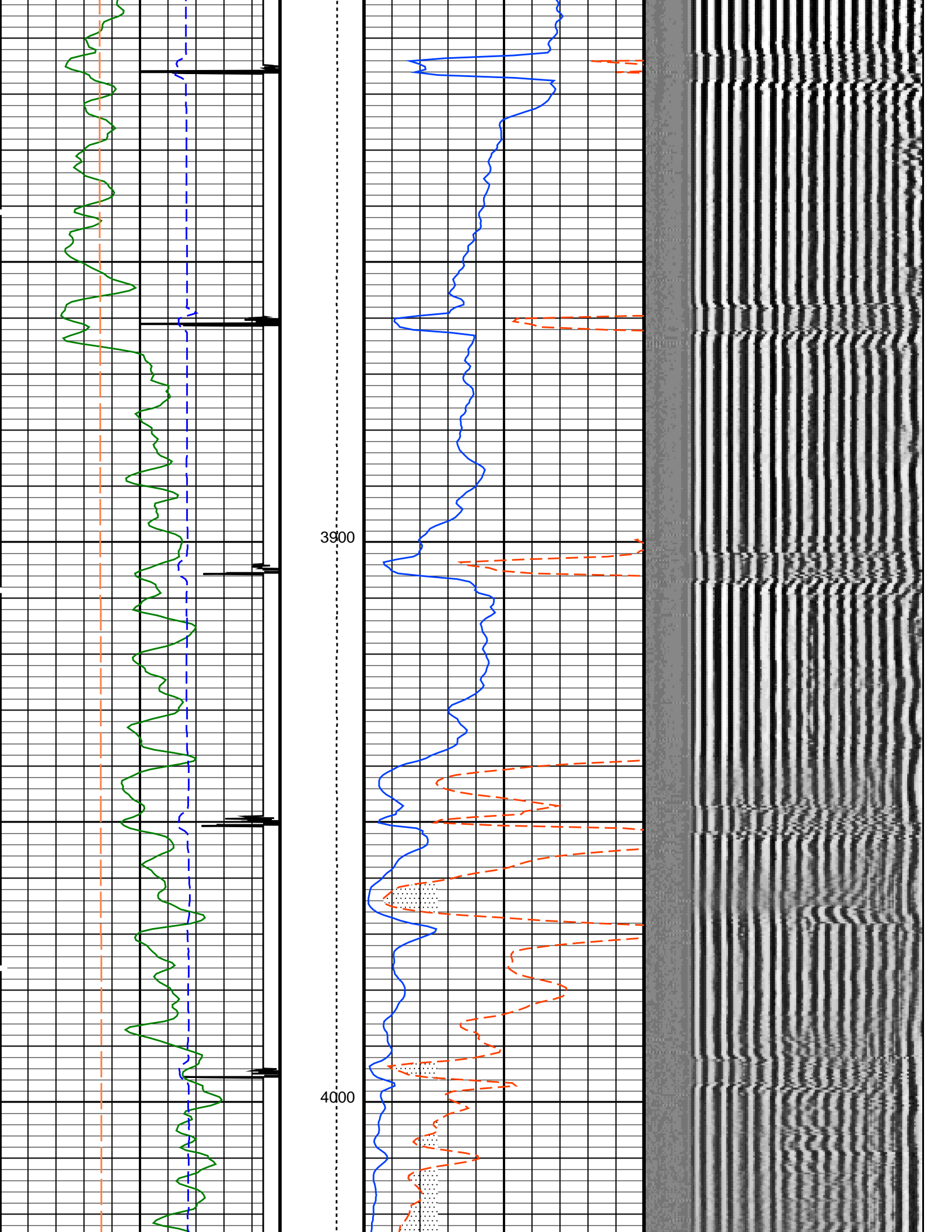
Company: Cascade Petroleum				Well: Forristall State 36-11S-56W-0			
Input DLIS Files							
DEFAULT	SCMT_RST_PSP_008LUP	FN:7	PRODUCER	26-Feb-2013 10:41	8278.5 FT	3240.0 FT	
Output DLIS Files							
DEFAULT	SCMT_RST_PSP_009PUP	FN:8	PRODUCER	26-Feb-2013 12:15	8279.0 FT	3189.0 FT	
OP System Version: 19C2-270							
SCMT-CB	19C2-270	RST-C		19C2-270			
PSPT	19C2-270						
Changed Parameter Summary							
DLIS Name	New Value		Previous Value		Depth & Time		
ZCMT	3.7	MRAY	2.82	MRAY	8279.0 12:15:05		
	2.82	MRAY	3.7	MRAY	6700.0 12:15:54		
PIP SUMMARY							
Time Mark Every 60 S							
Discriminated CCL (CCLD)							
-3.5	(V)	0.5					

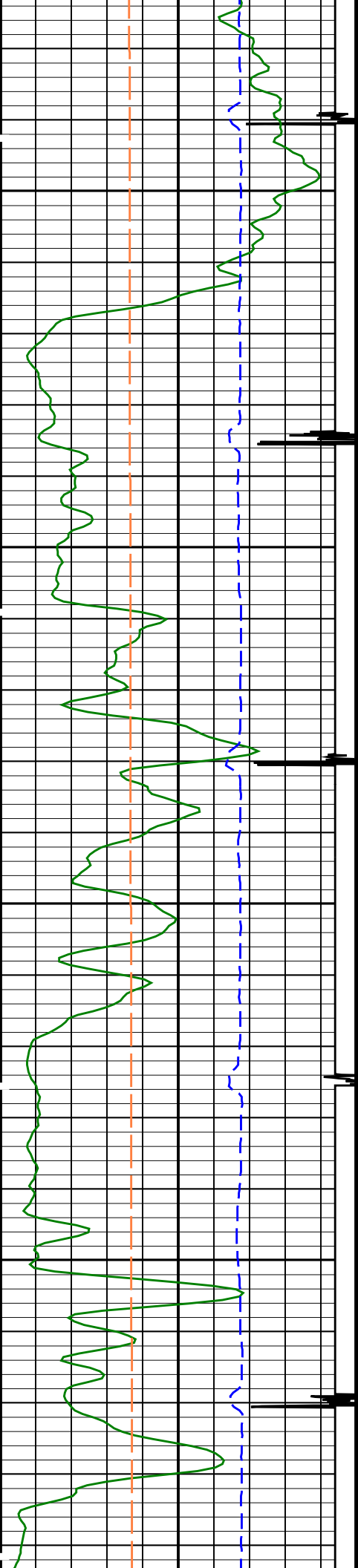






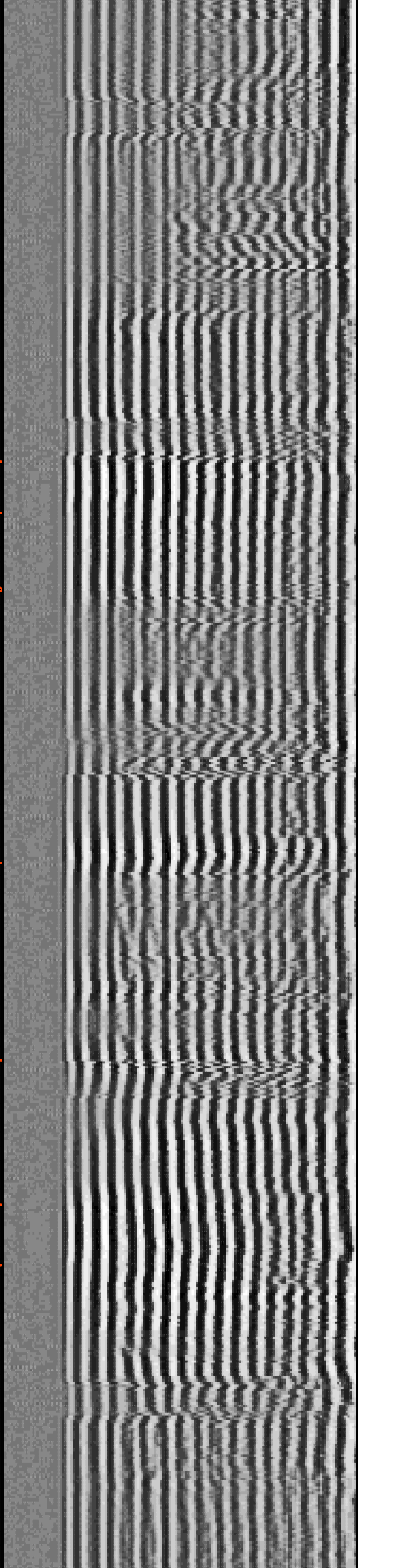
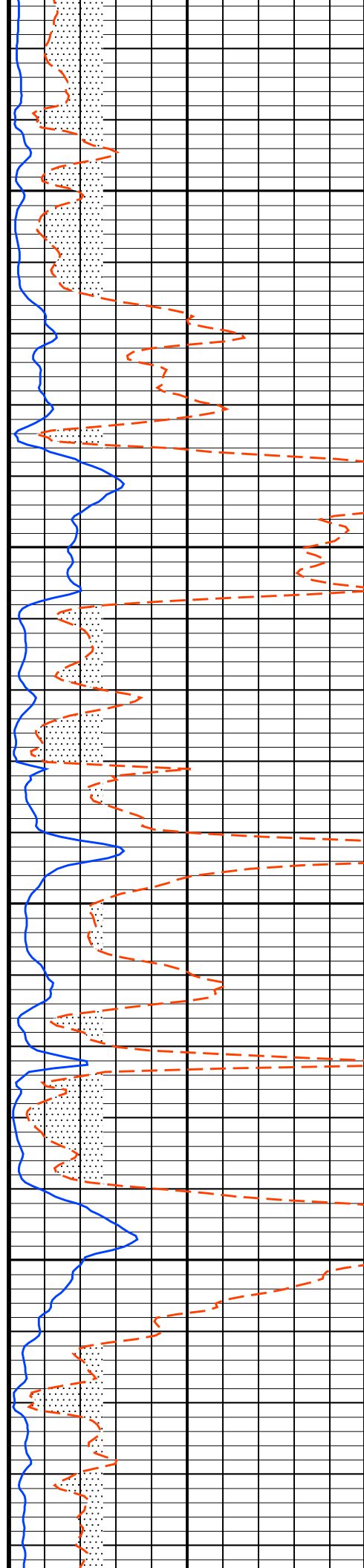




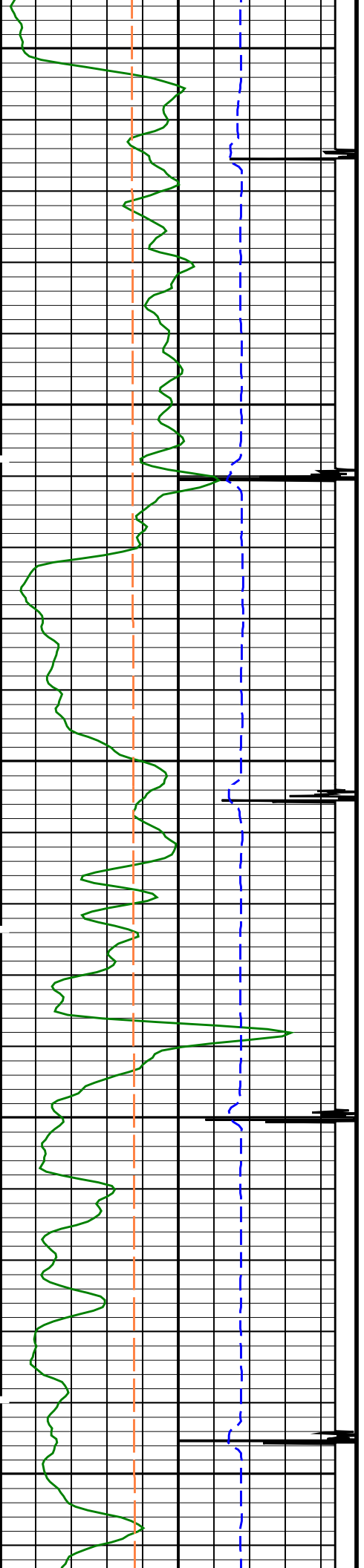


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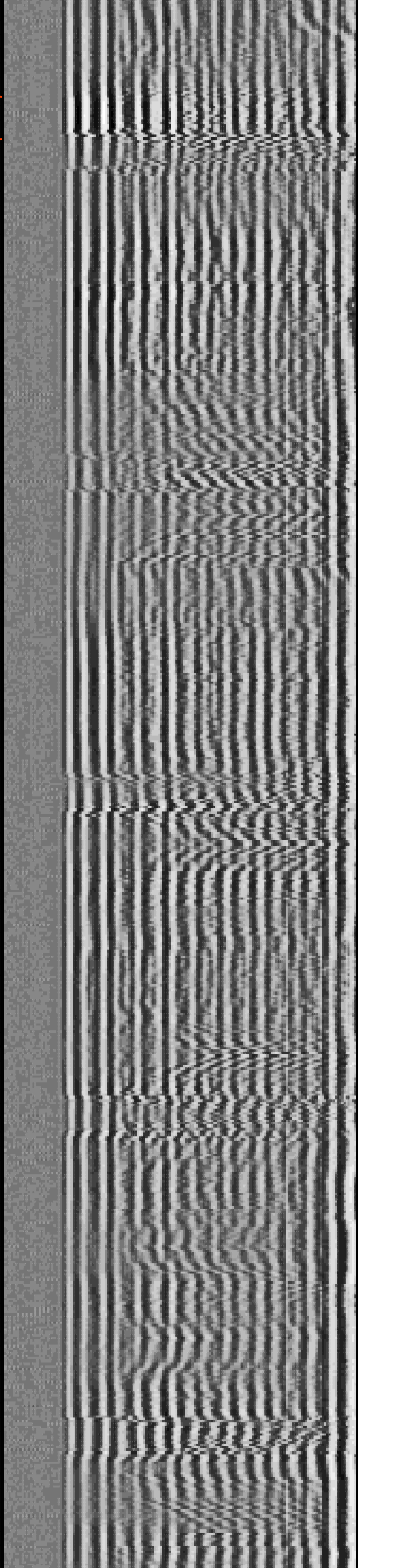
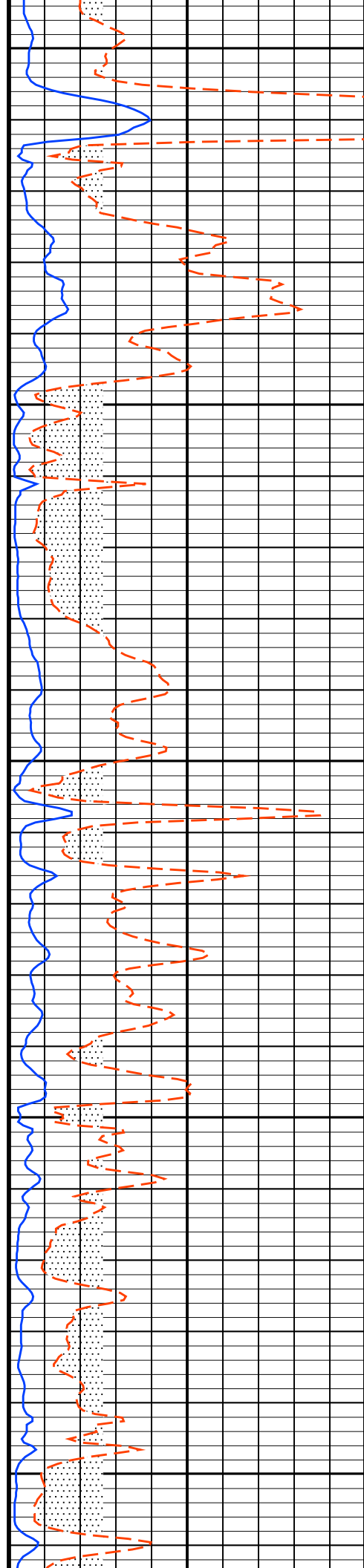


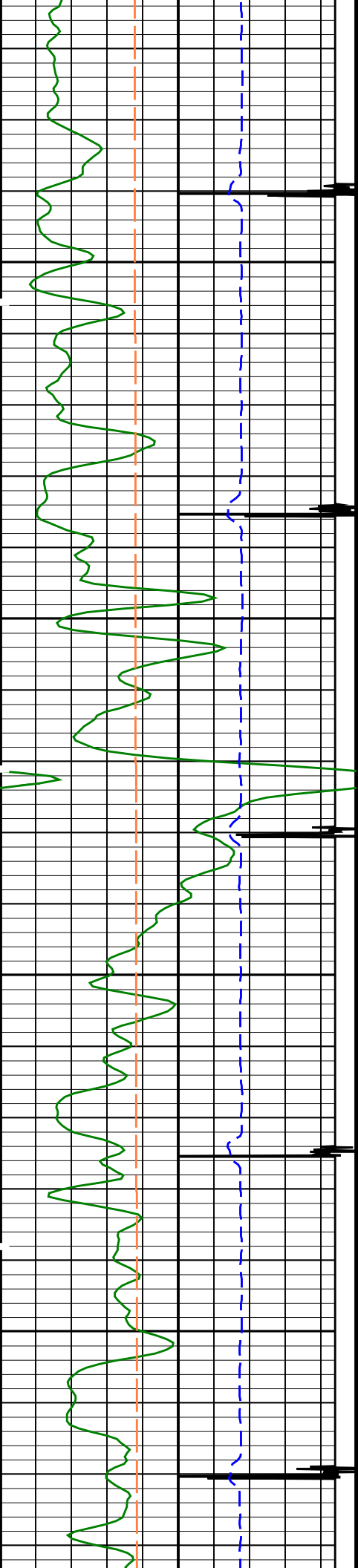




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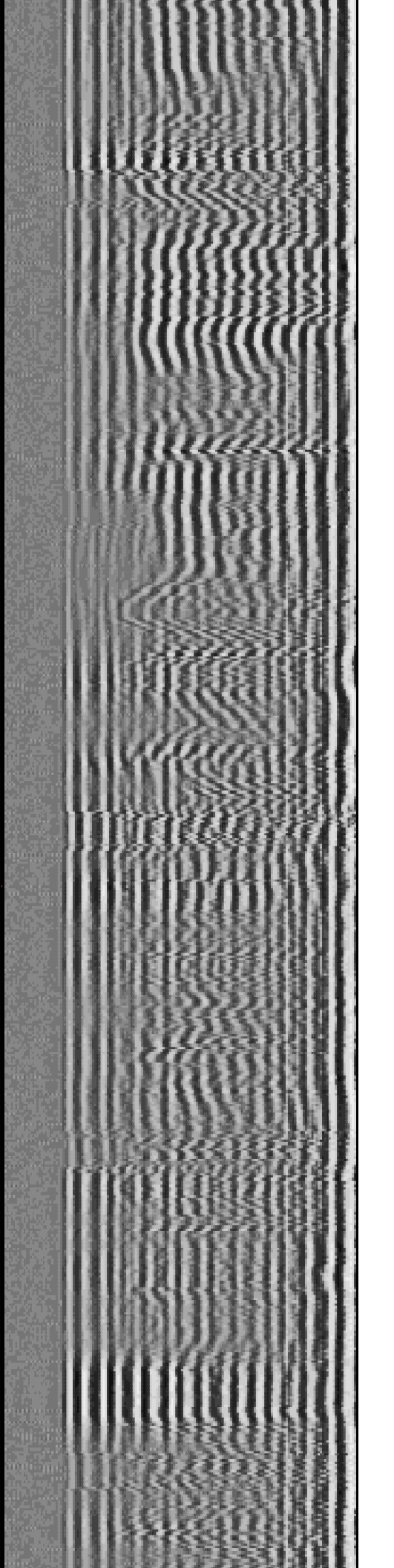
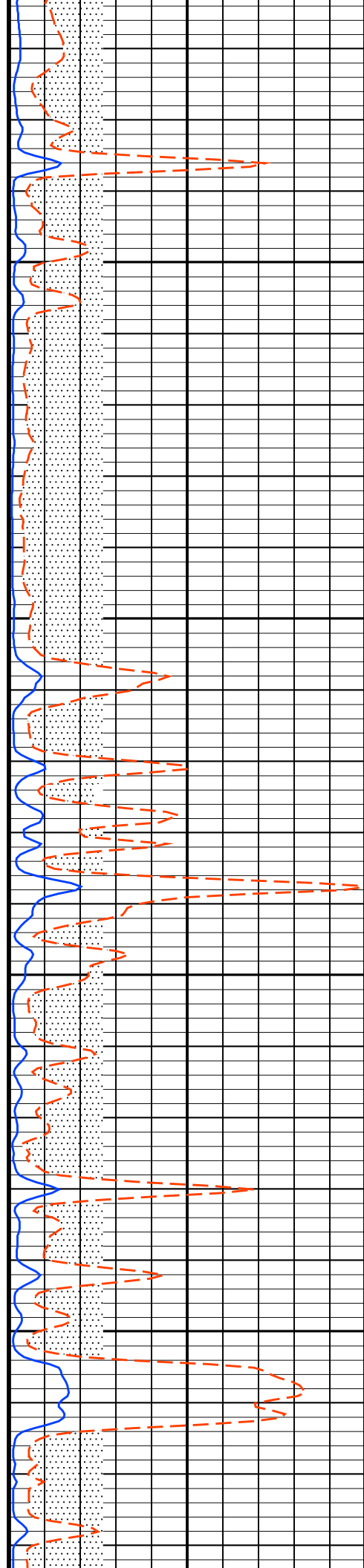
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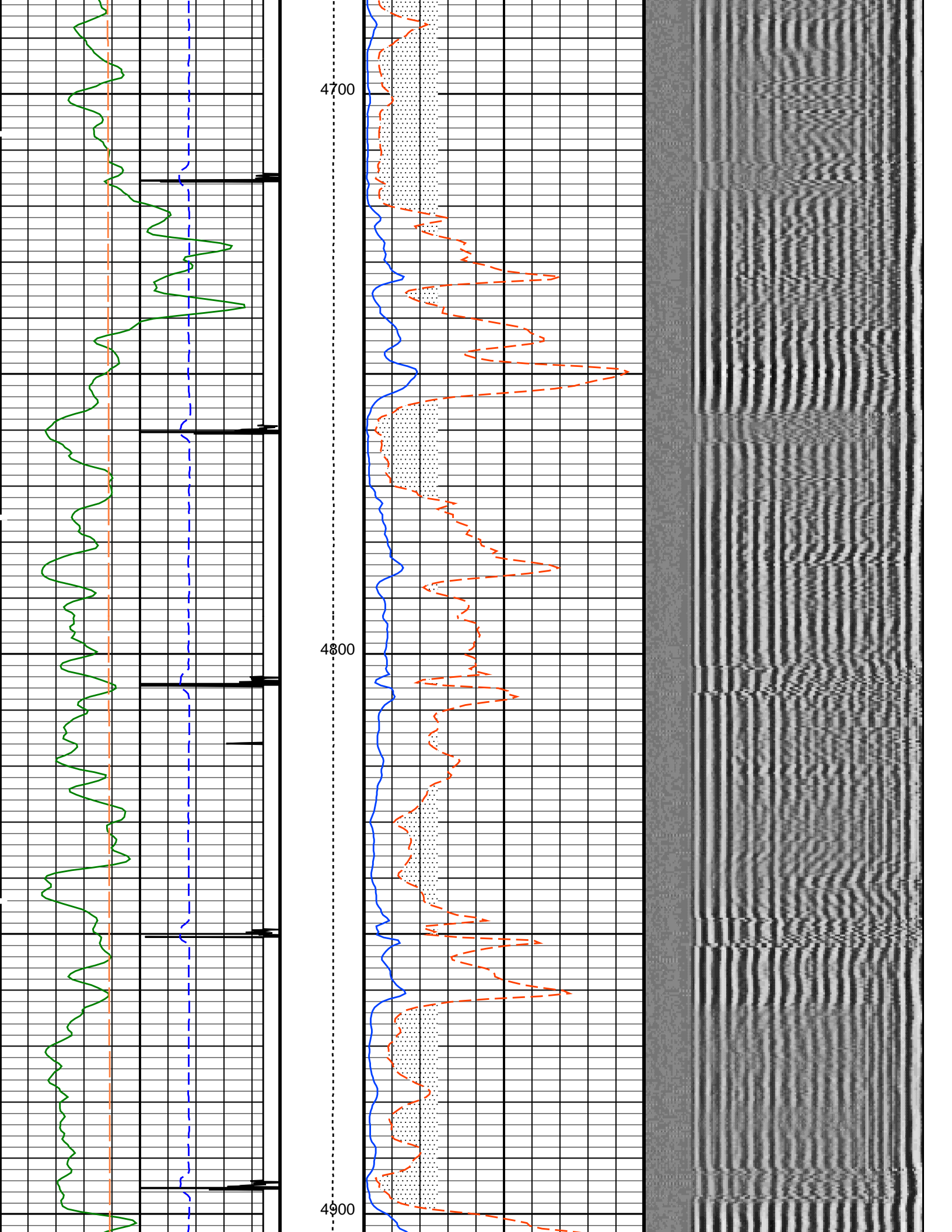




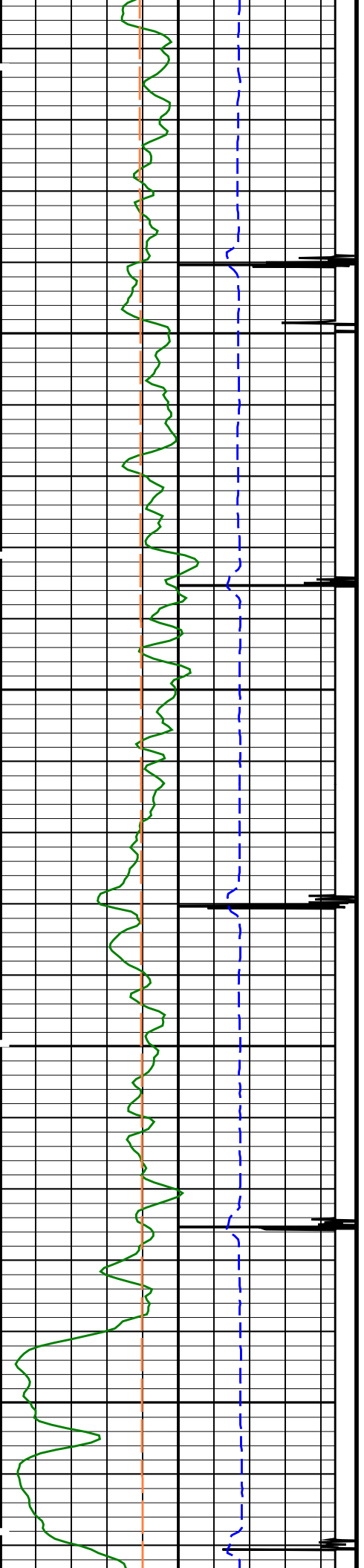
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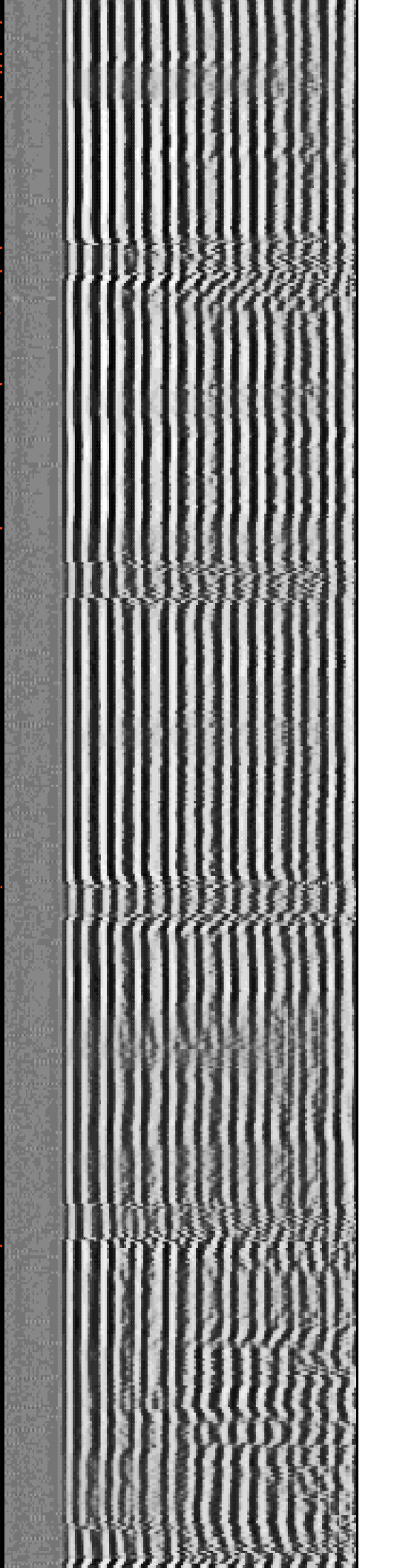
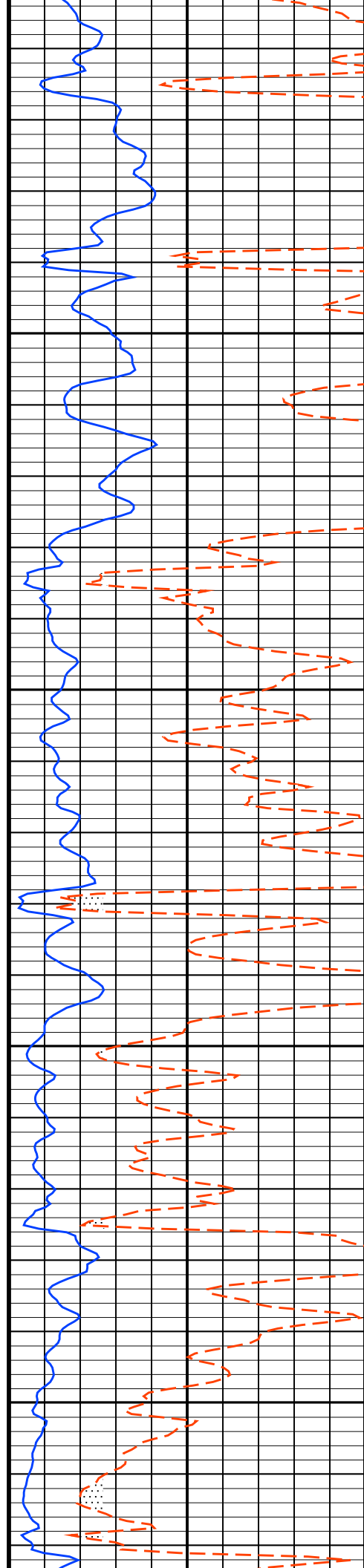


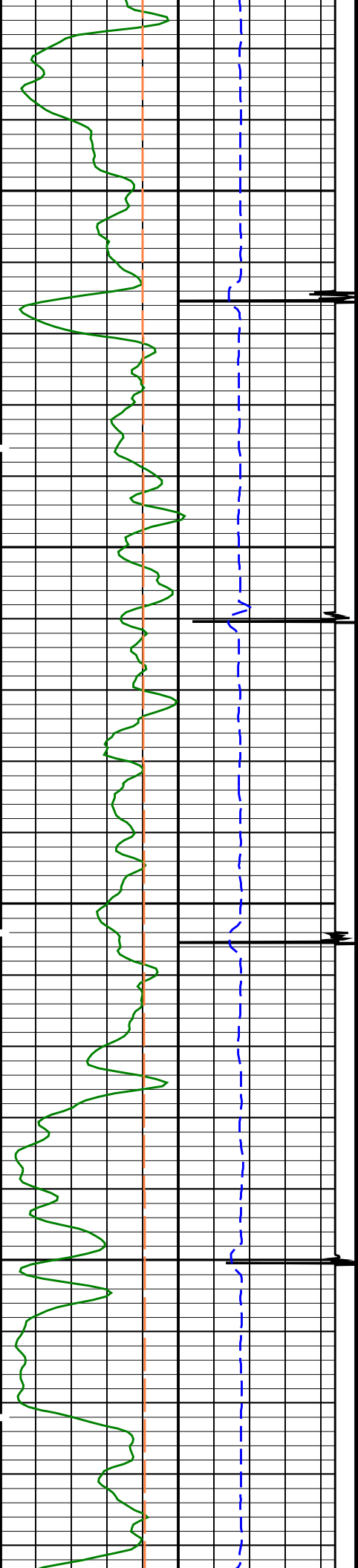




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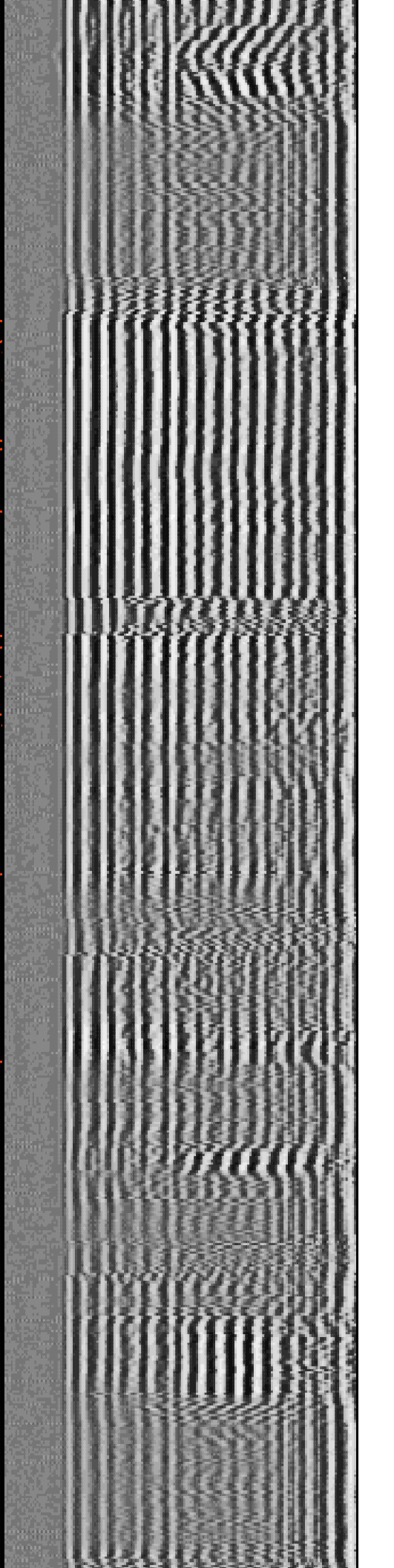
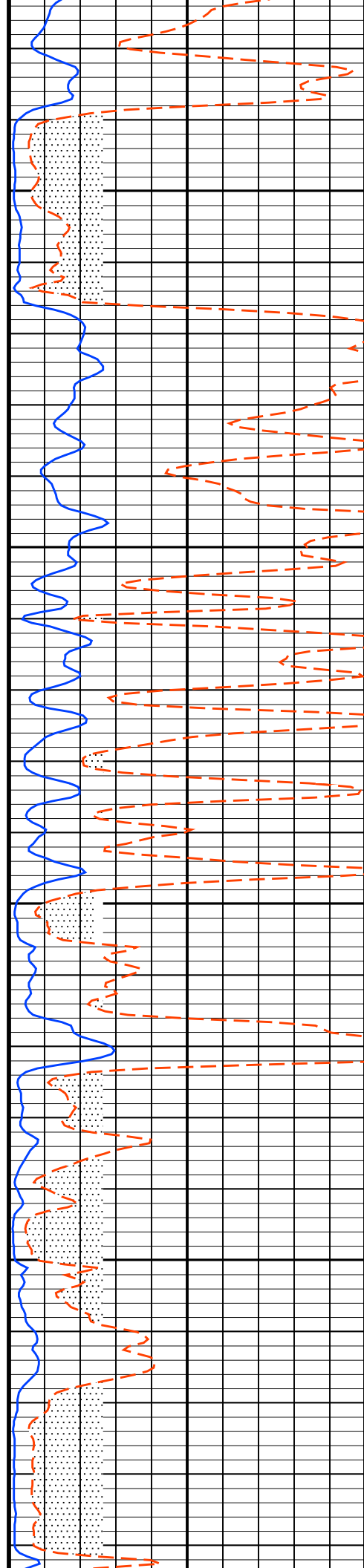
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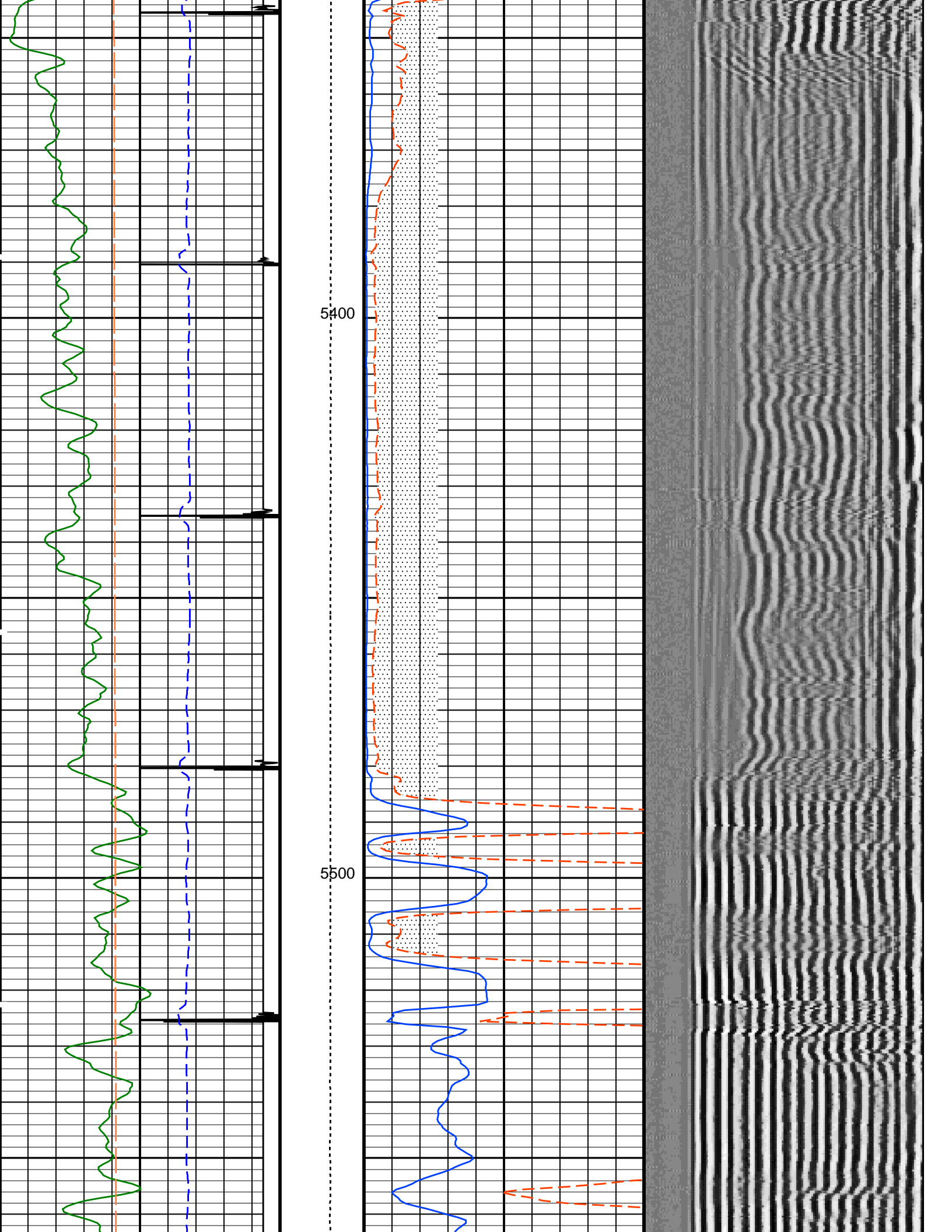


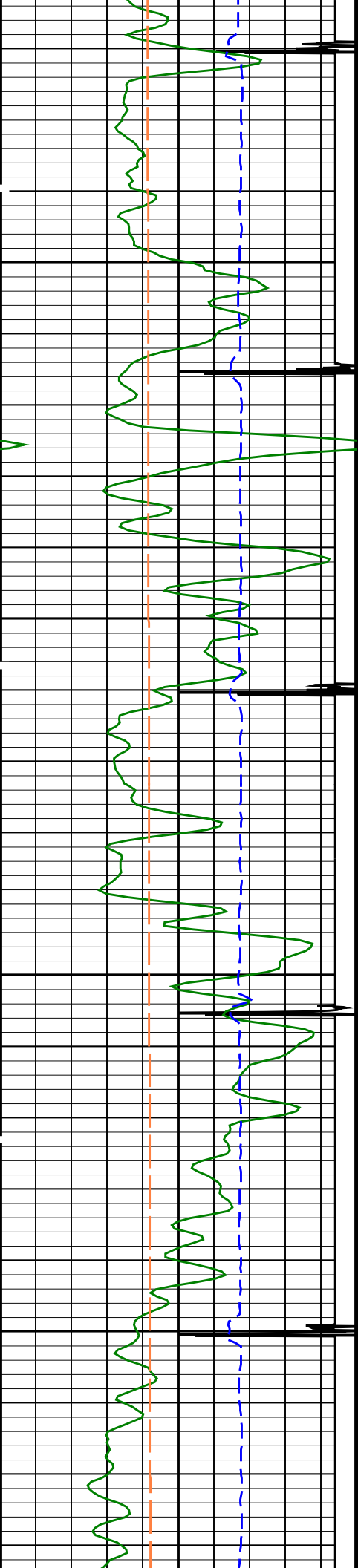


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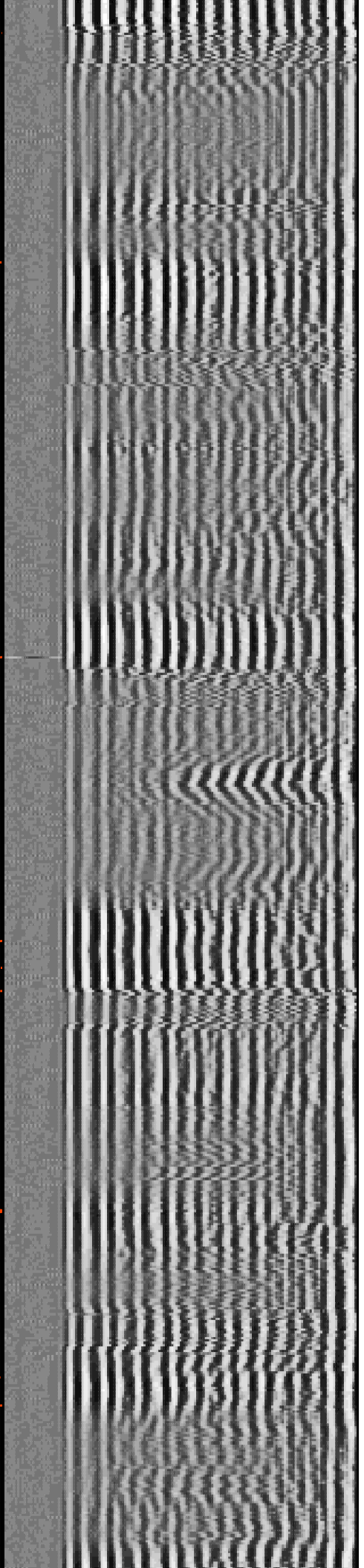
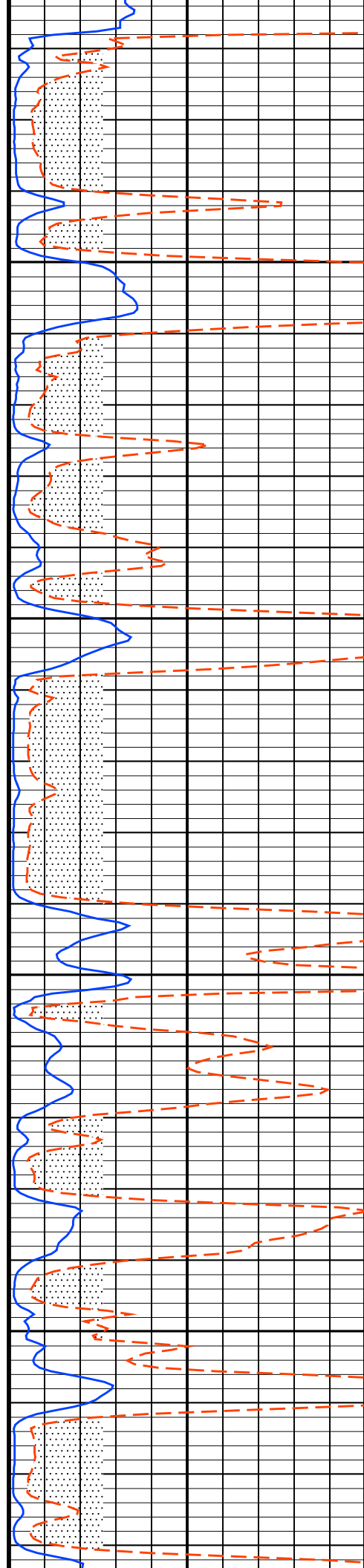




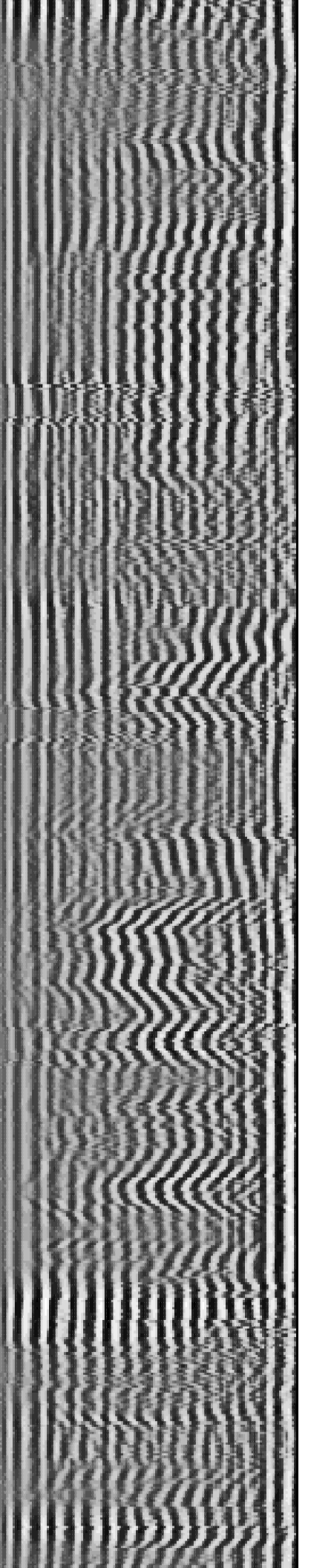
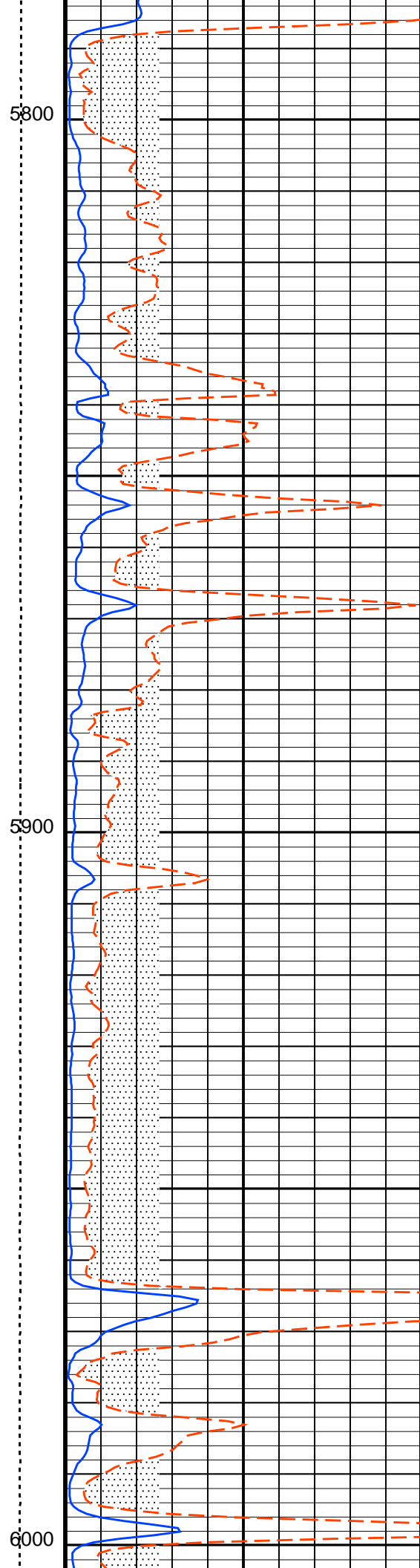
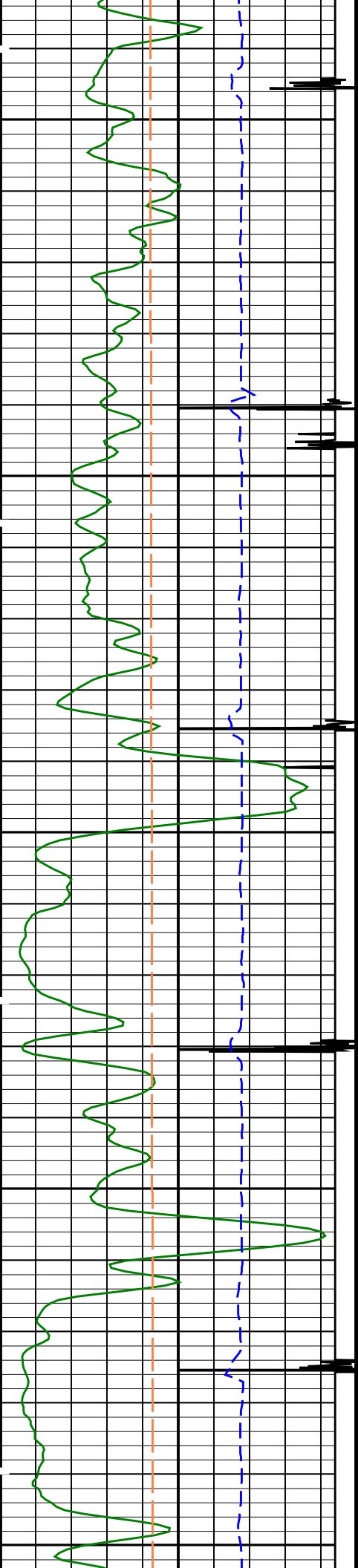


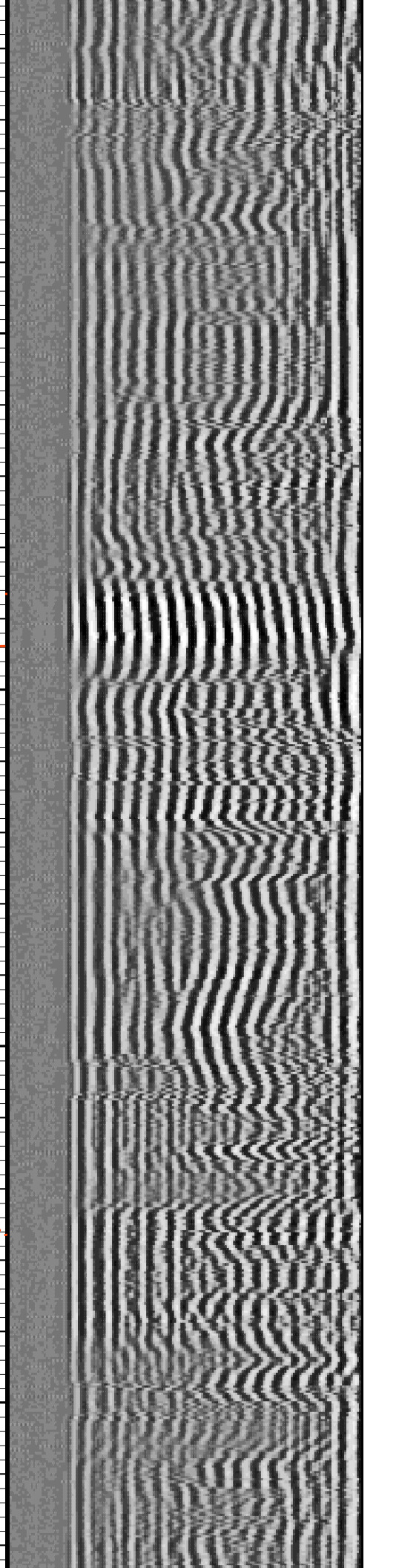
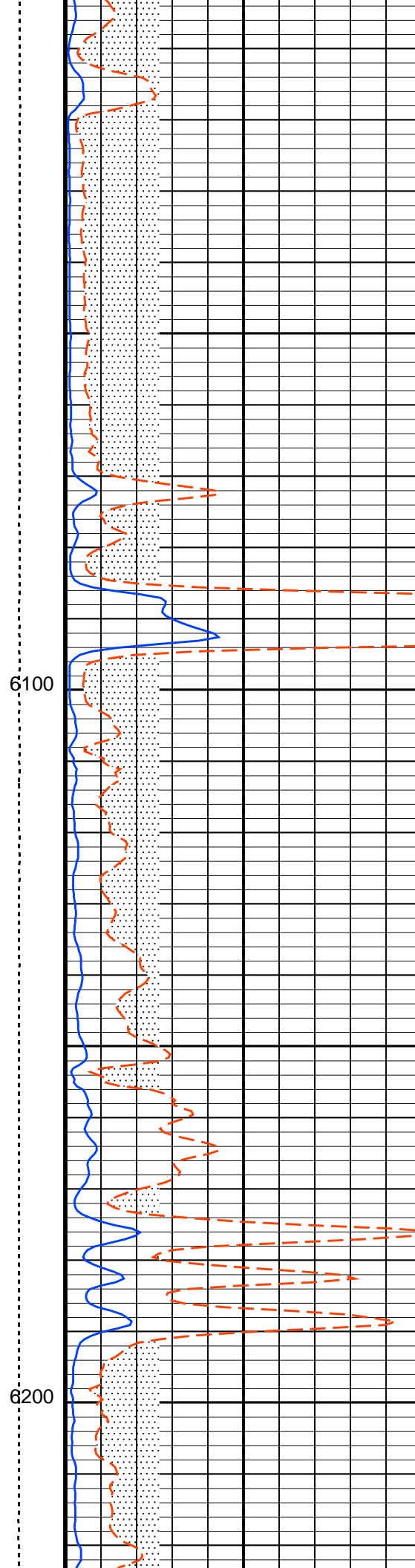
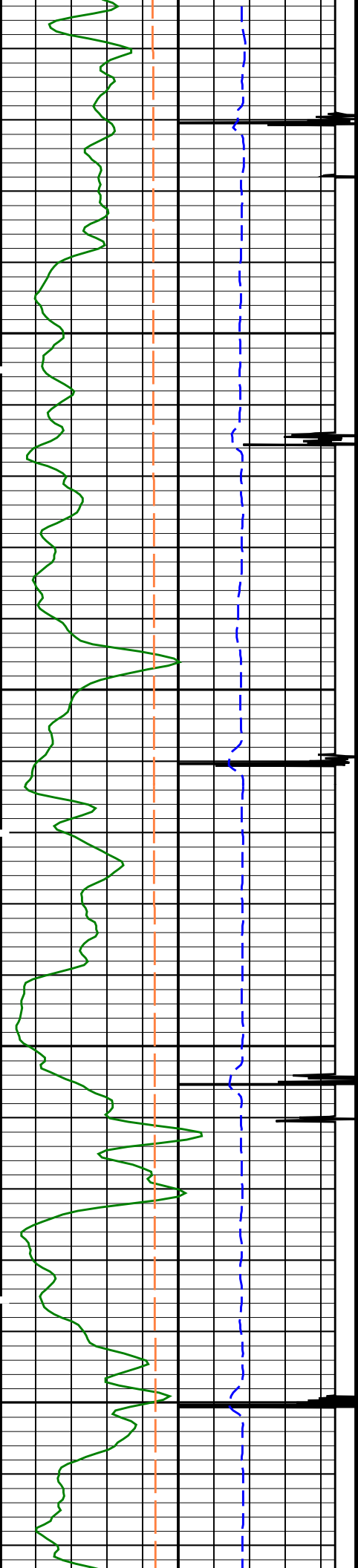
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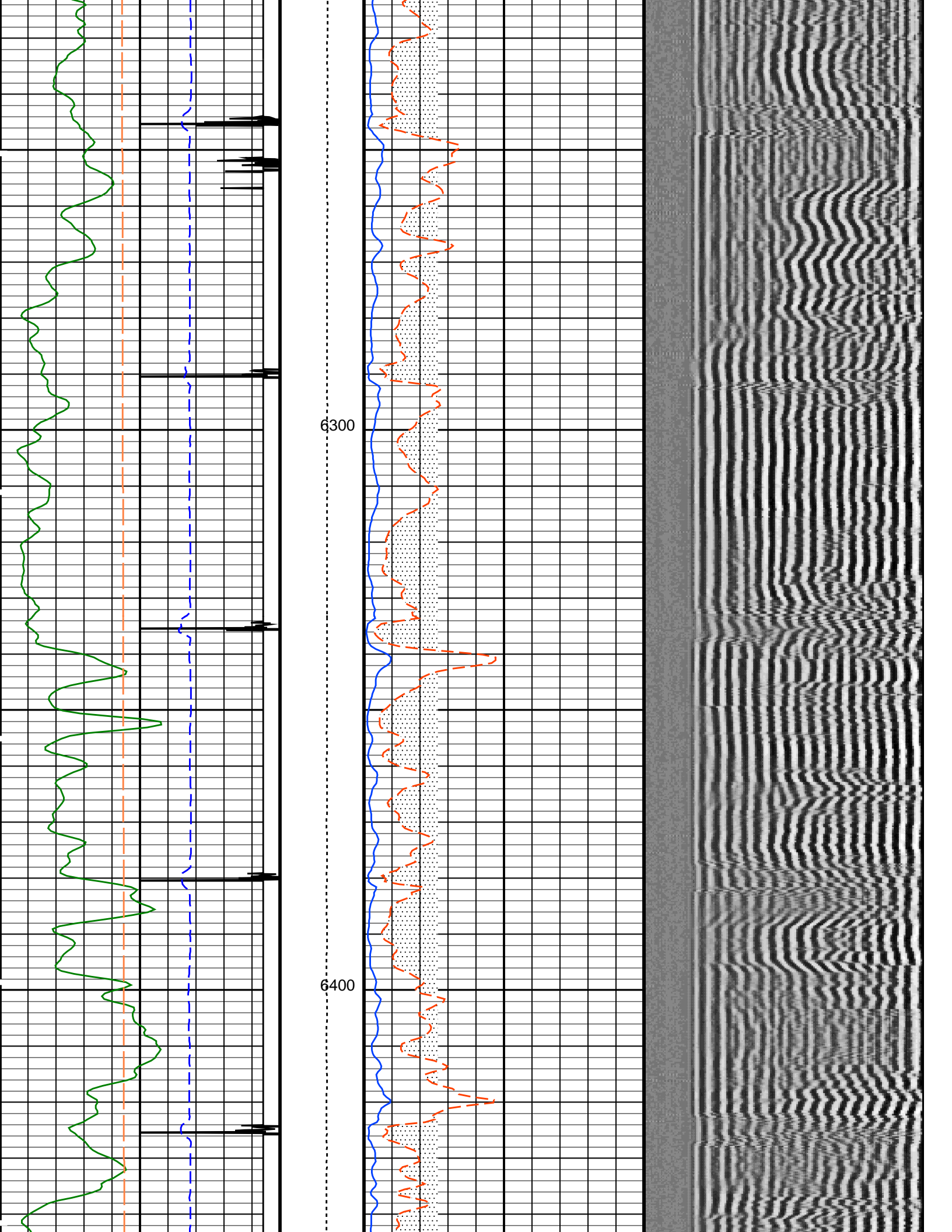
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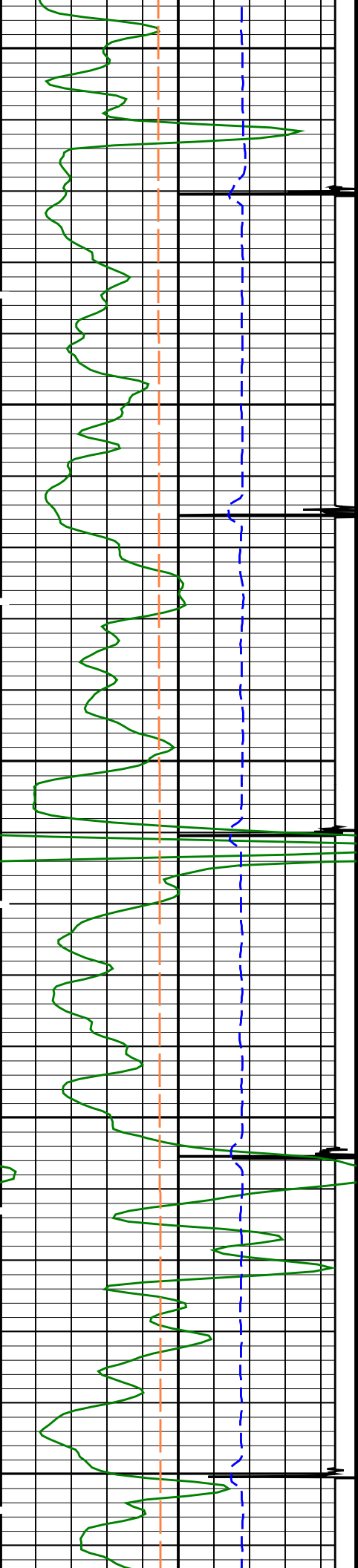






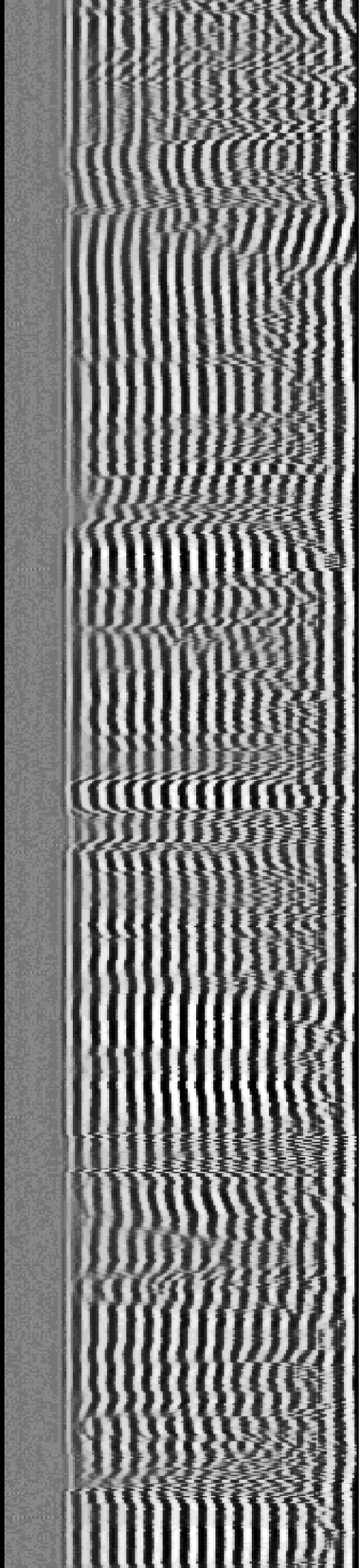
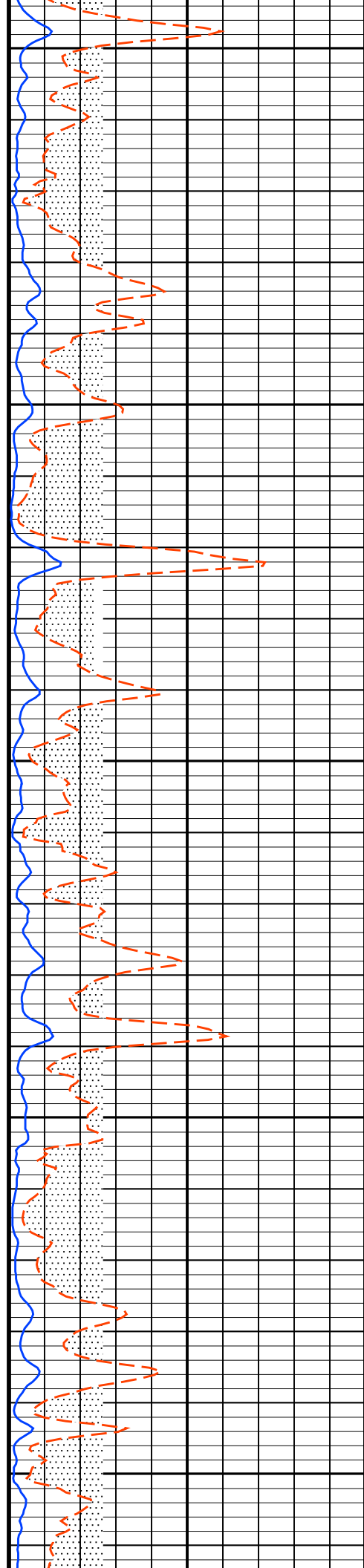




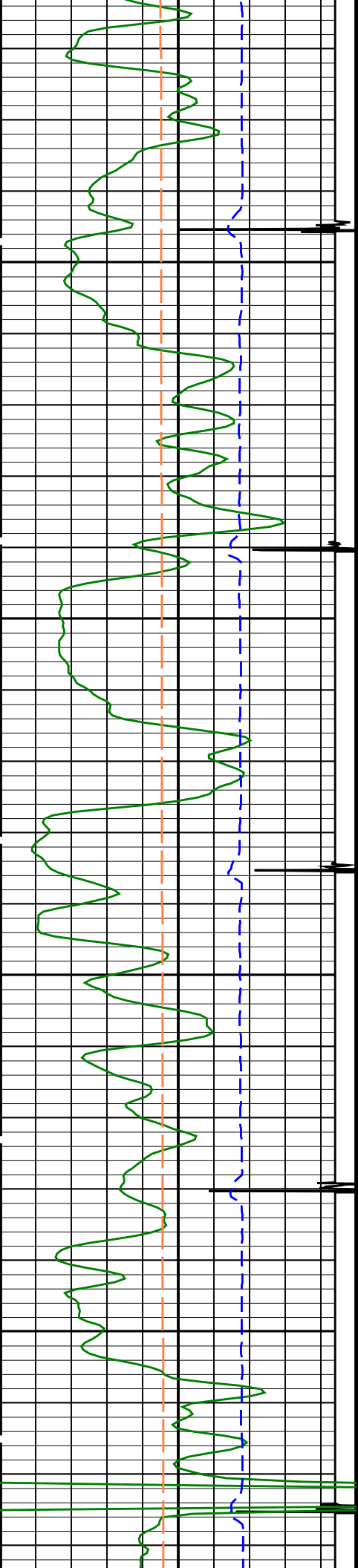


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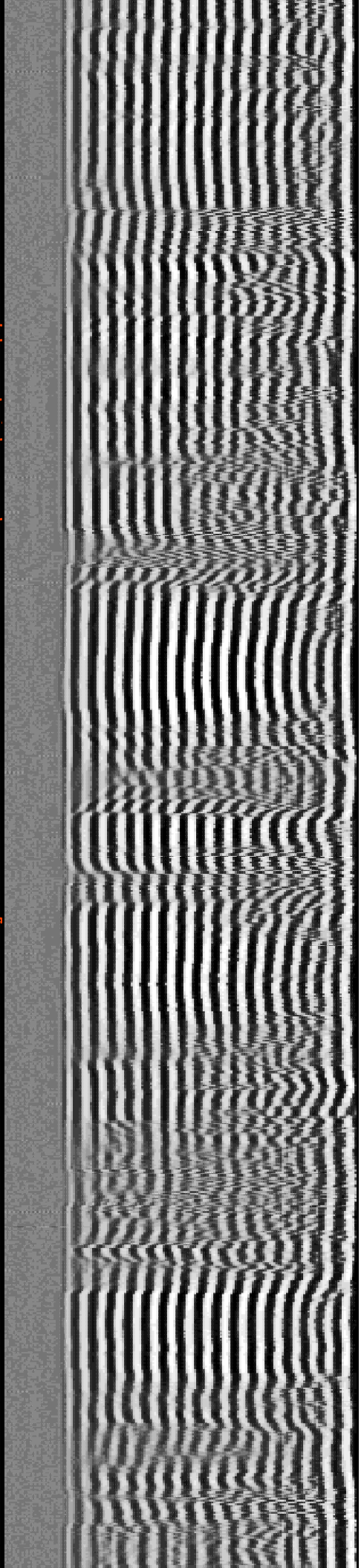
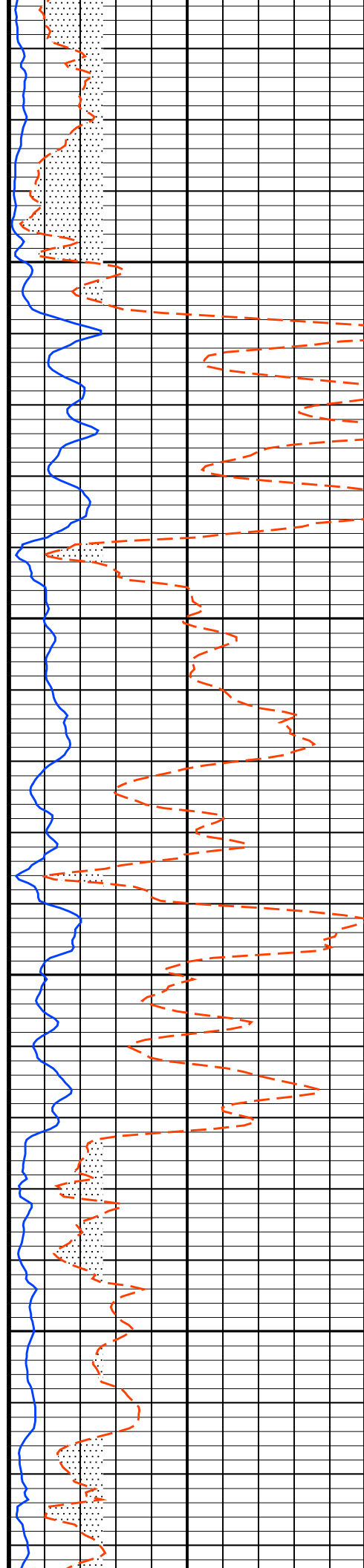


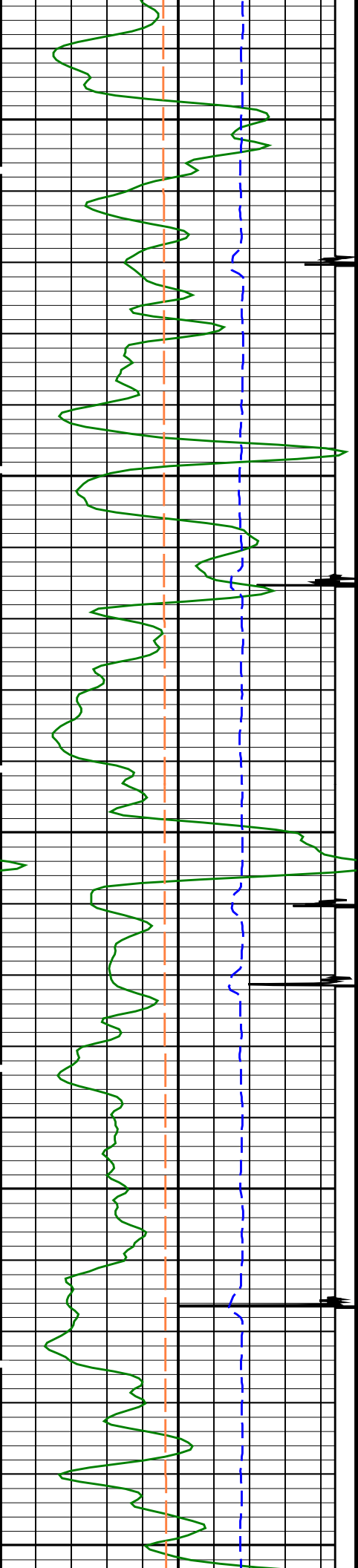




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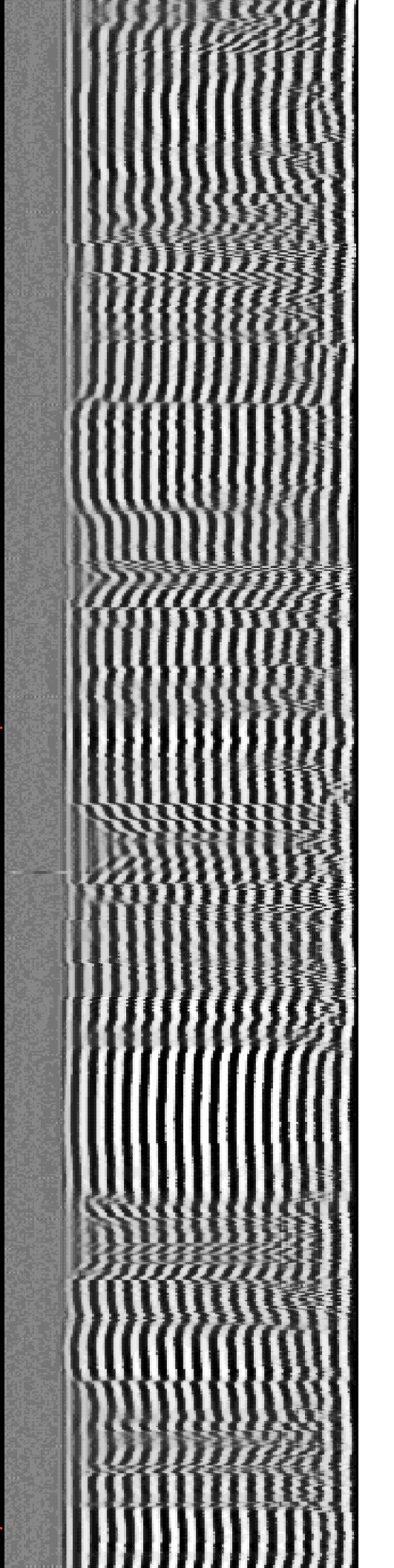
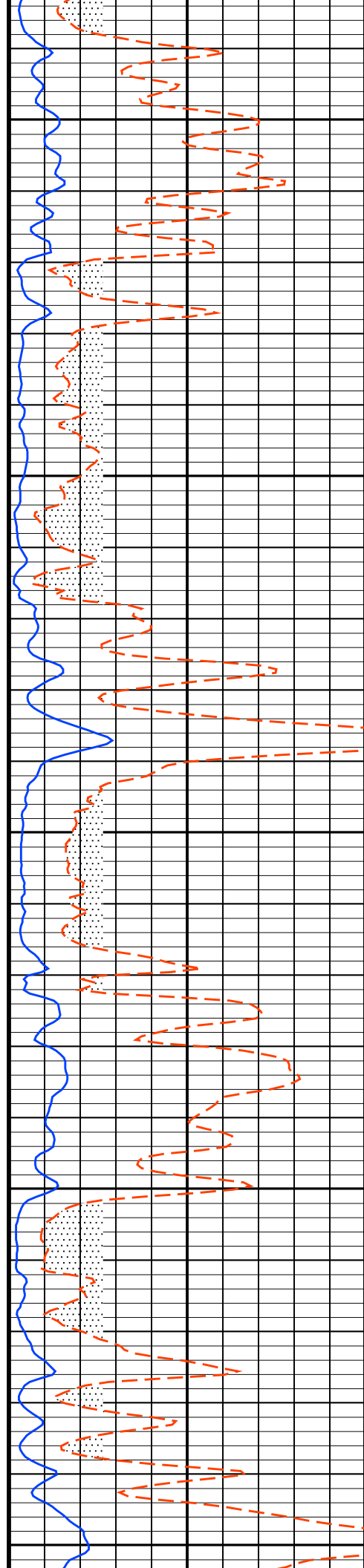


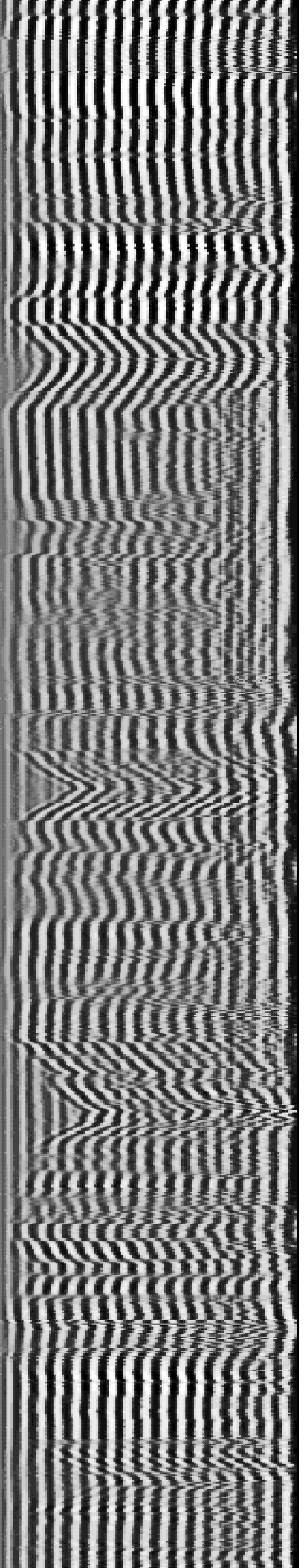
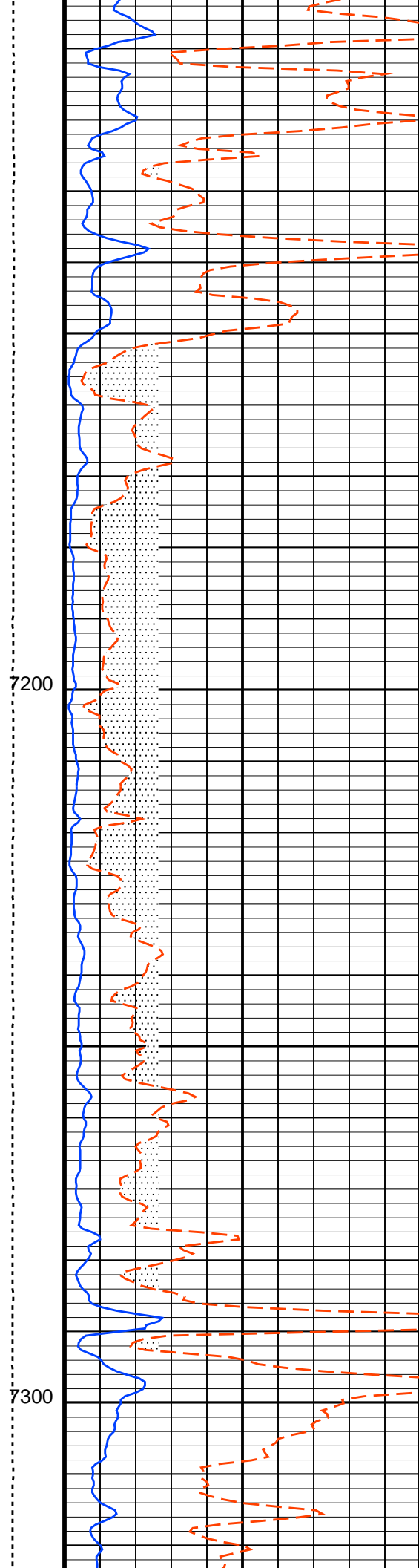
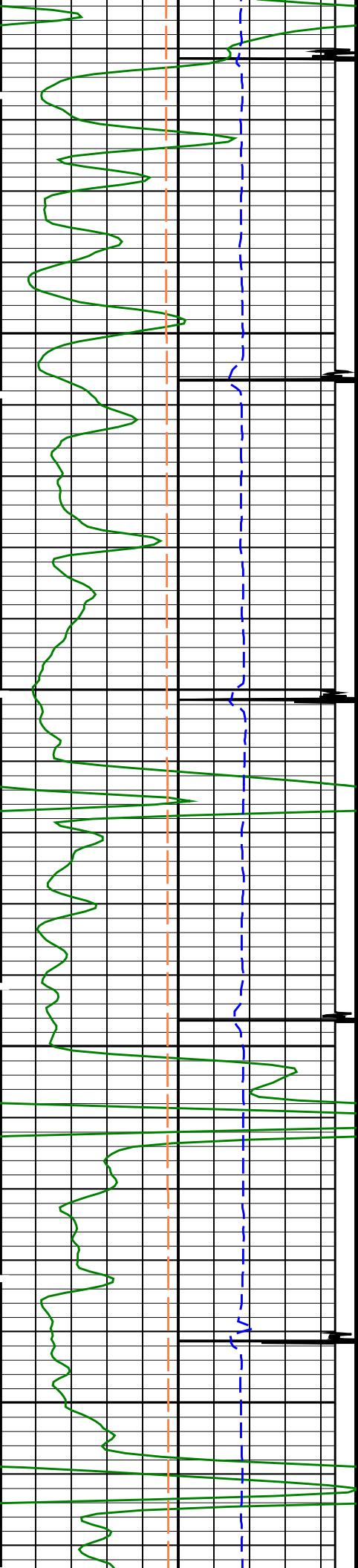


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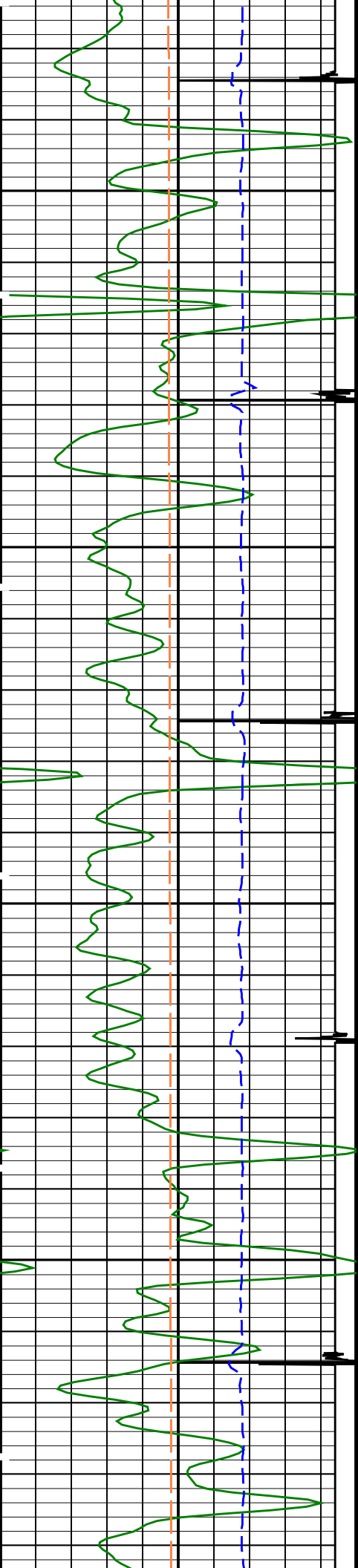
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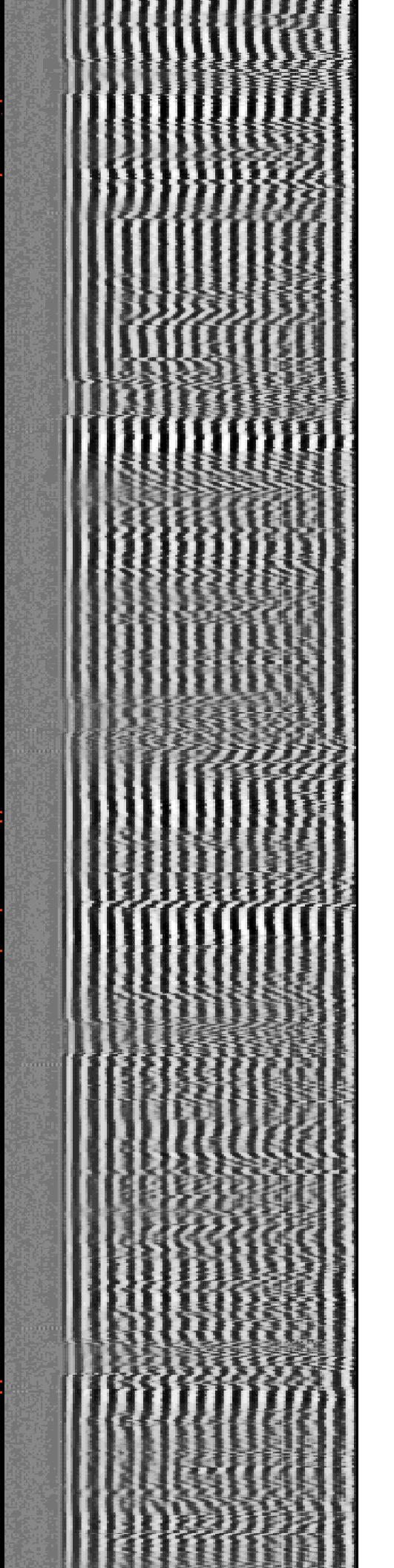
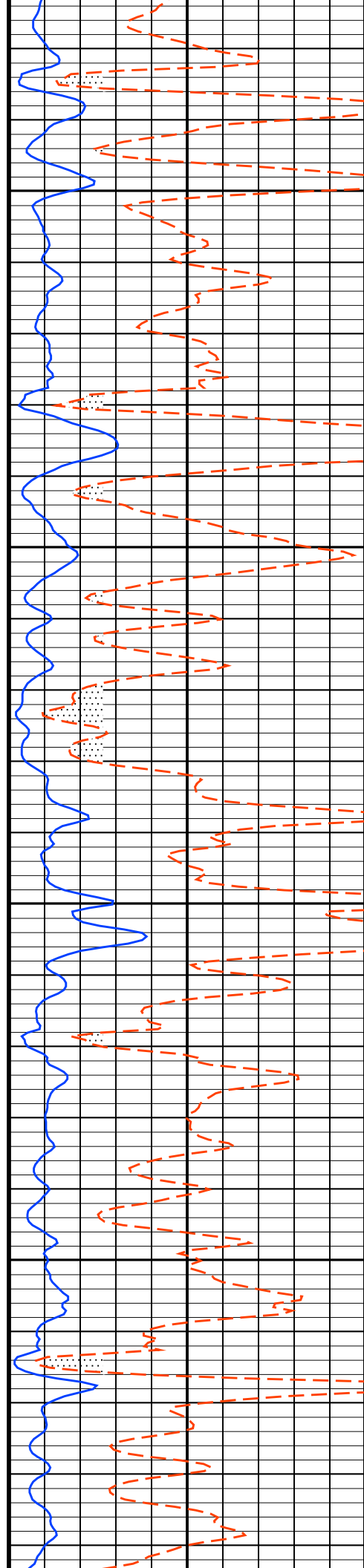


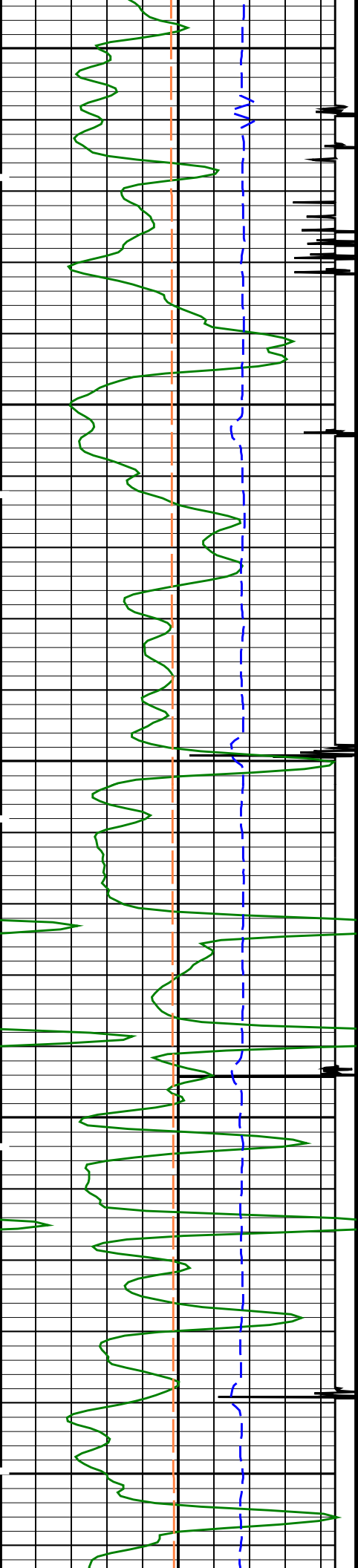




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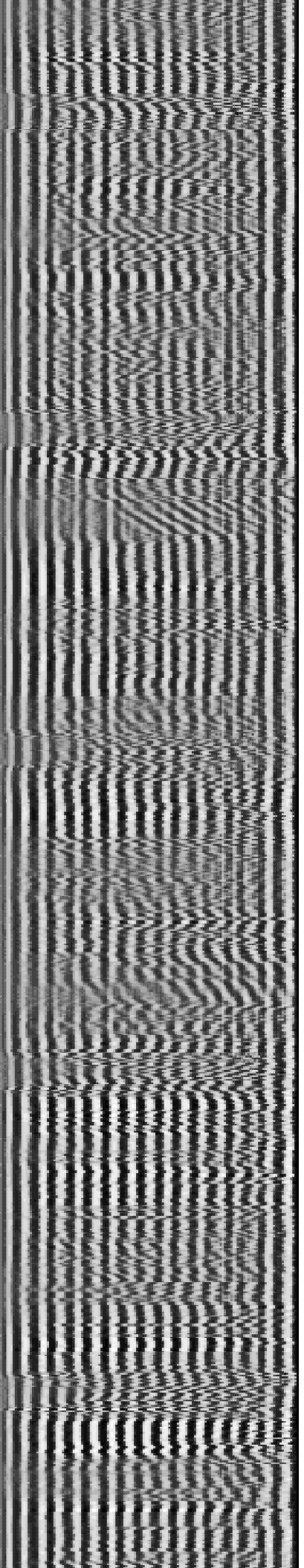
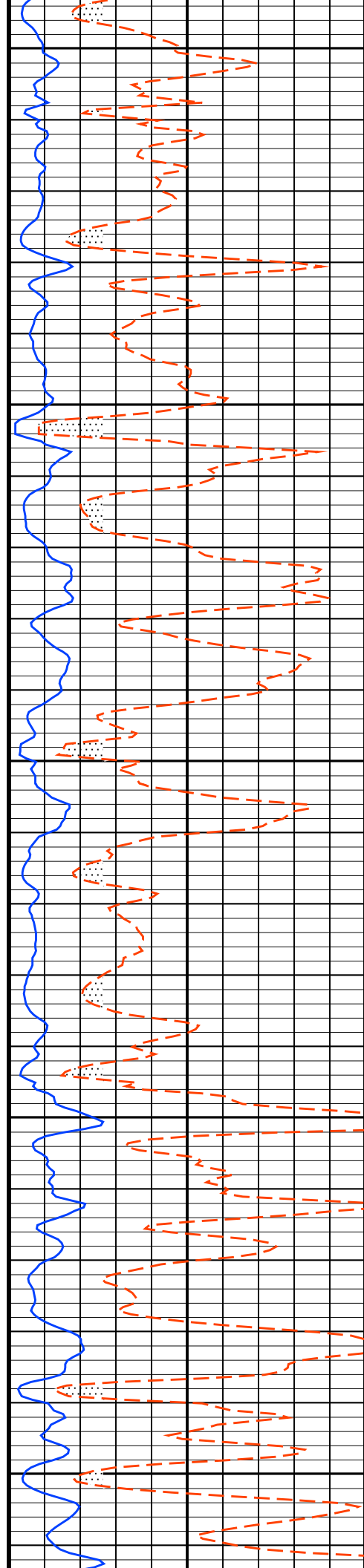
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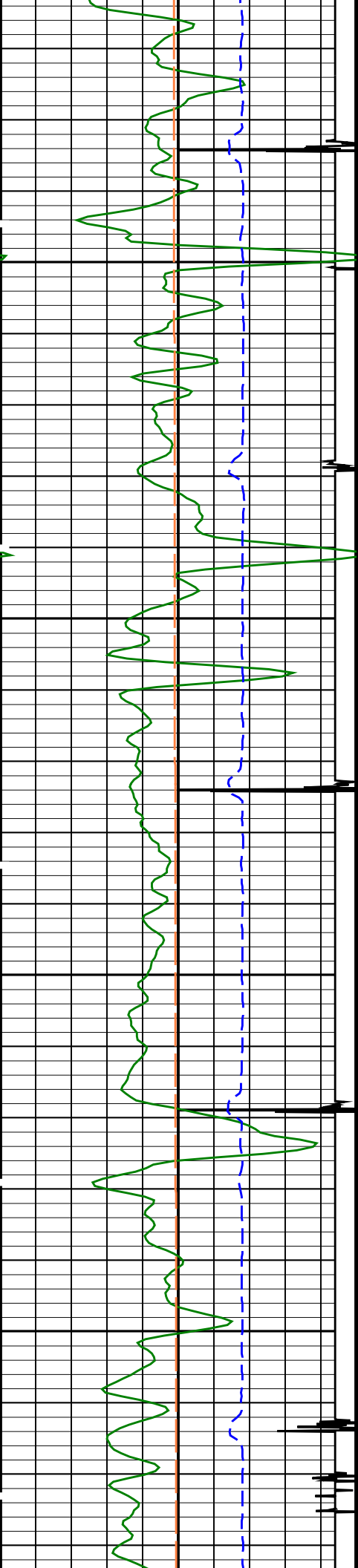




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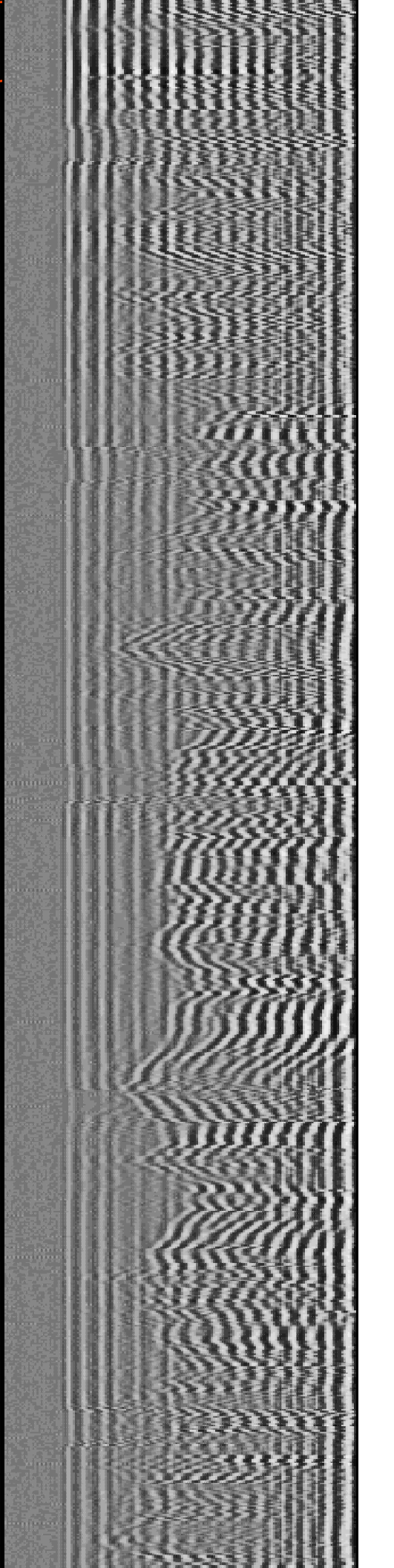
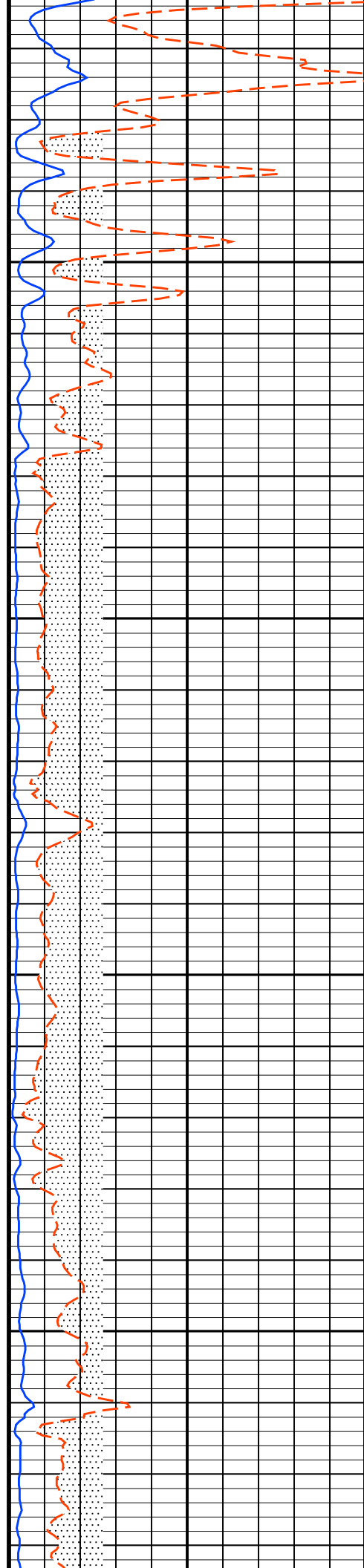
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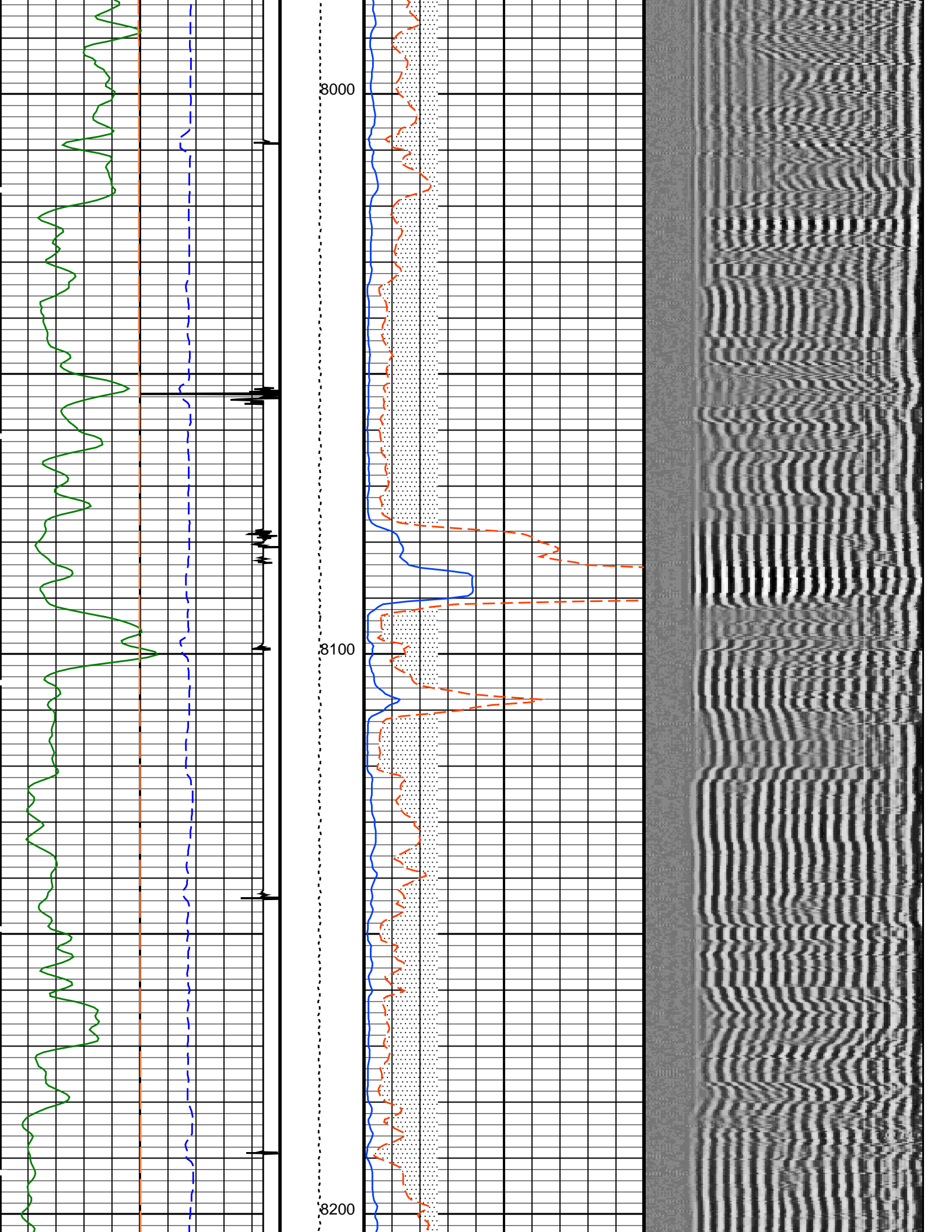


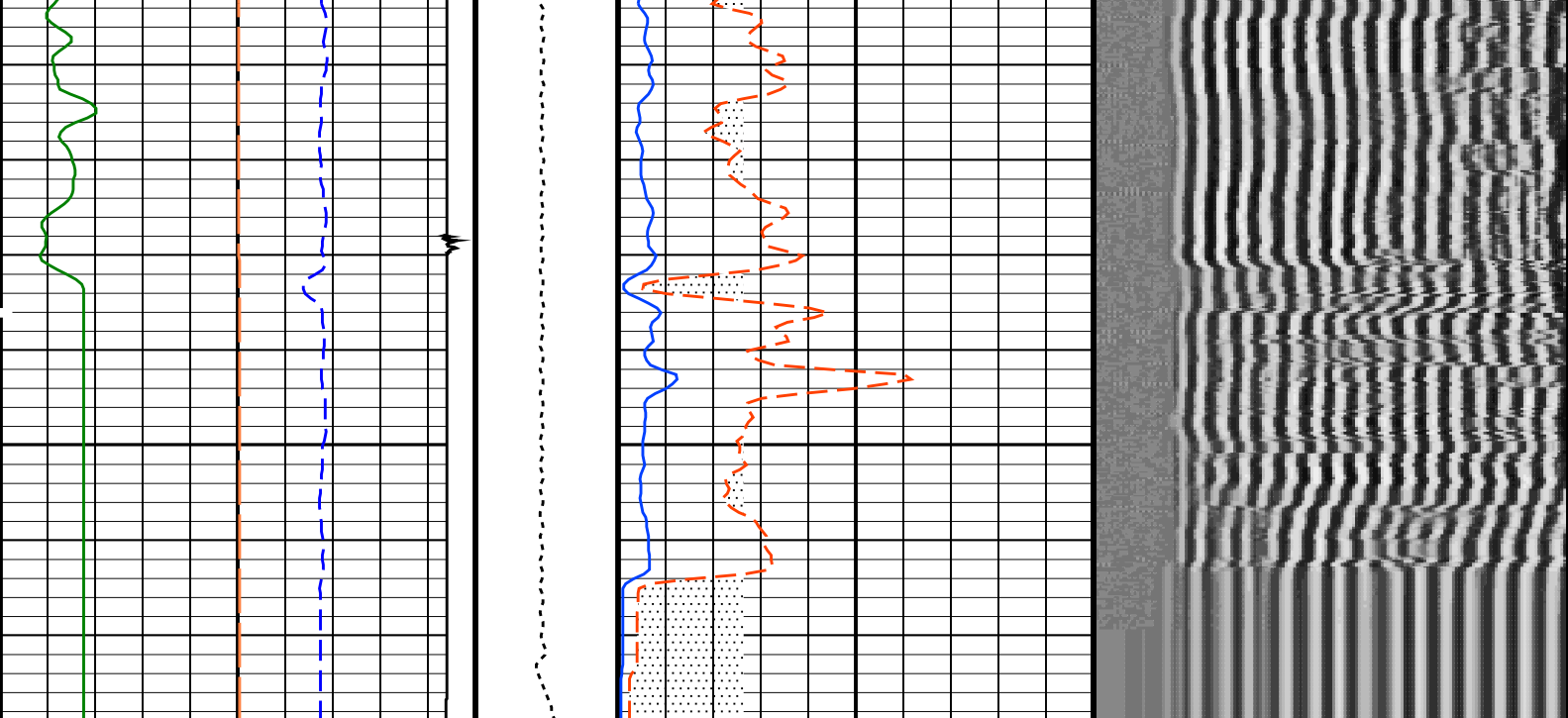
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7900









Gamma Ray (GR) (GAPI)	0	150
Transit Time (TT) (US)	400	200
Temperature (TEMP) (DEGF)	0	300

Tension (TENS) (LBF)	2000	0
CBL Amplitude (CBL) (MV)	0	20
CBL Amplitude (CBL) (MV)	0	100

Min Amplitude Max  
200 VDL VariableDensity (VDL) (US) 1200

Transit Time (TT) (US)	400	200
Temperature (TEMP) (DEGF)	0	300

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

COLLARS From CCLD to T1
Discriminated CCL (CCLD)
-3.5 (V) 0.5

### 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	243.137 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	357.137 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	71 MV
CMCF	CBL Cement Type Compensation Factor	0.10953
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN
CMTM	SCMT Operating Mode	LOG
CSCS	SCMT Slow Channel Index	VCC
CTHI	Casing Thickness	0.306128 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	2.61257 MV
MAPD	SCMT MAP Peak Detection Mode	PEAK
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	186.137 US
MAPT	SCMT MAP Fixed Threshold Level	30 MV
MATT	Maximum Attenuation	6.84331 DB/F
MCCF	MAP Cement Type Compensation Factor	0.245339
MCI	Minimum Cemented Interval for Isolation	4.75 FT



MMSA	MAP Minimum Sonic Amplitude	7.2608	MV
MSA	Minimum Sonic Amplitude	1.14425	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	2.82	MRAY
RST-C: Reservoir Saturation Pro Tool C			
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
PSPT: Production Services Logging Platform			
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
DO	Depth Offset for Playback	0.4	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

Format: CBL\_VDL

Vertical Scale: 5" per 100'

Graphics File Created: 26-Feb-2013 12:15

OP System Version: 19C2-270						
SCMT-CB	19C2-270	RST-C		19C2-270		
PSPT	19C2-270					
Input DLIS Files						
DEFAULT	SCMT_RST_PSP_008LUP	FN:7	PRODUCER	26-Feb-2013 10:41	8278.5 FT	3240.0 FT
Output DLIS Files						
DEFAULT	SCMT_RST_PSP_009PUP	FN:8	PRODUCER	26-Feb-2013 12:15		

Schlumberger

REPEAT PASS

MAXIS Field Log

Company: Cascade Petroleum

Well: Forristall State 36-22-11S-56W-0

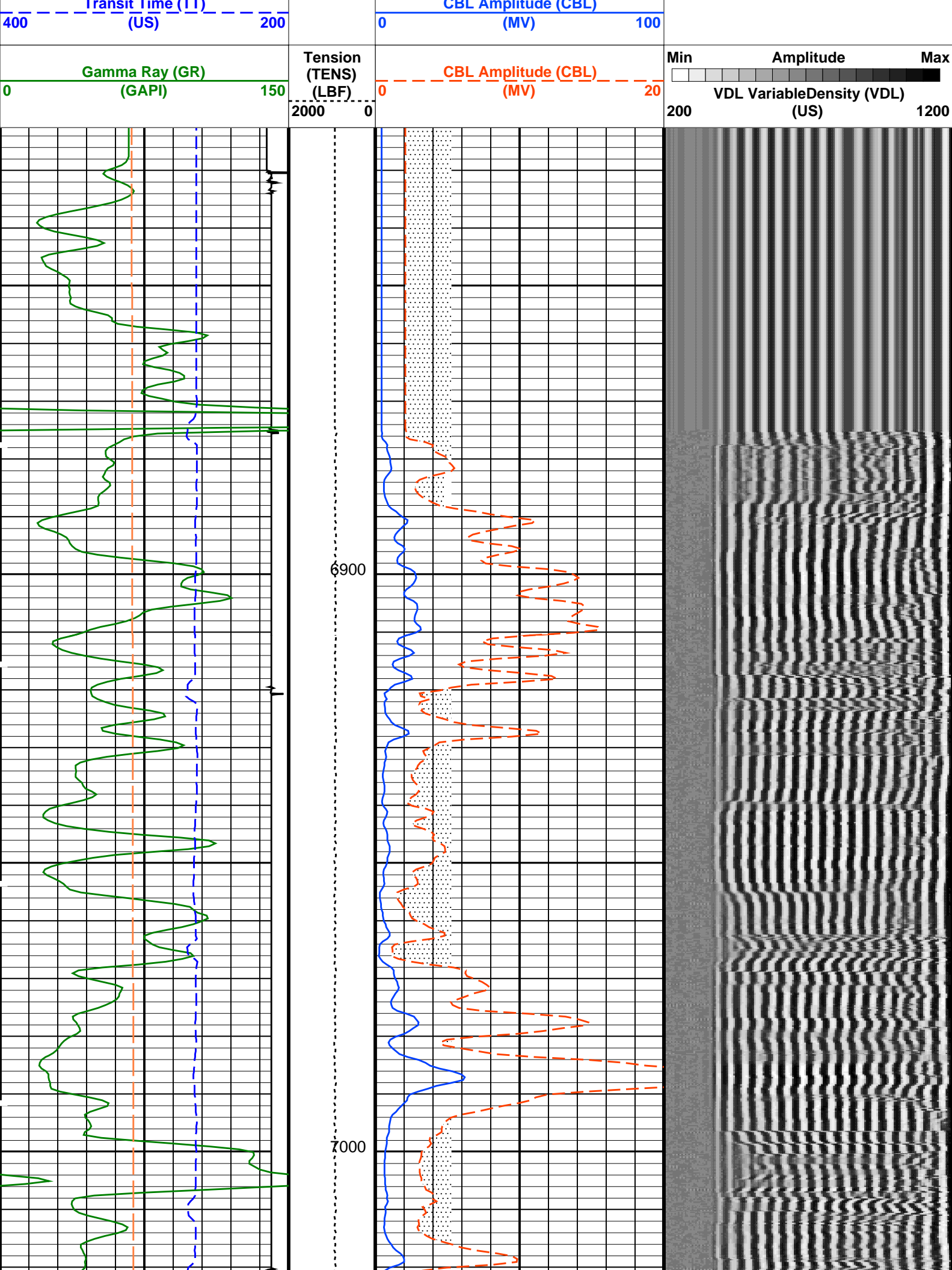
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PSPT	19C2-270					

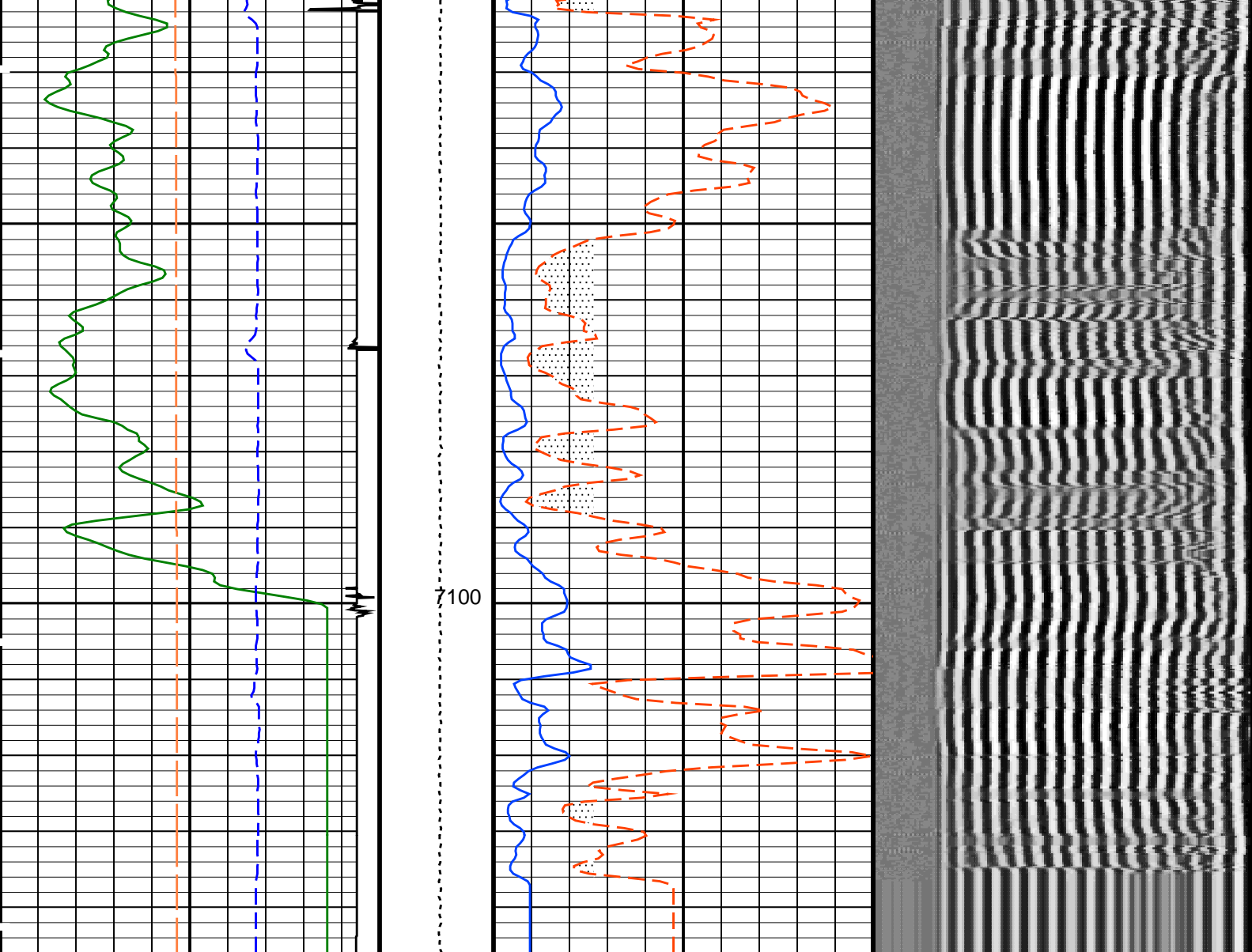
PIP SUMMARY

Time Mark Every 60 S

	Discriminated CCL (CCLD)		
	-3.5	(V)	0.5
	COLLARS From CCLD to T1		
Temperature (TEMP) 0 (DEGF) 300			
T1 to T2 (TT)			

GOOD BOND From ACBL to GOBO	
GOBO to T1 (GT)	





Gamma Ray (GR) (GAPI)		Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)		<div><div>Min</div><div>Amplitude</div><div>Max</div><div>VDL VariableDensity (VDL) (US)</div></div>	200	1200	
0	150		0	20				
Transit Time (TT) (US)			CBL Amplitude (CBL) (MV)					
400	200	0	100					
Temperature (TEMP) (DEGF)		GOOD BOND From ACBL to GOBO						
0	300							
COLLARS From CCLD to T1								
Discriminated CCL (CCLD)								
-3.5	(V)	0.5						

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	243.137 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	357.137	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	71	MV
CMCF	CBL Cement Type Compensation Factor	0.196292	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.306128	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	2.61257	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	186.137	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	8.69115	DB/F
MCCF	MAP Cement Type Compensation Factor	0.355424	
MCI	Minimum Cemented Interval for Isolation	4.75	FT
MMSA	MAP Minimum Sonic Amplitude	7.2608	MV
MSA	Minimum Sonic Amplitude	1.14425	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	3.7	MRAY
RST-C: Reservoir Saturation Pro Tool C			
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
PSPT: Production Services Logging Platform			
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
TD	Total Depth	-50000	FT

Format: CBL\_VDL    Vertical Scale: 5" per 100'    Graphics File Created: 26-Feb-2013 10:13

## OP System Version: 19C2-270

SCMT-CB	19C2-270	RST-C	19C2-270
PSPT	19C2-270		

## Output DLIS Files

DEFAULT	SCMT_RST_PSP_007LUP	FN:6	PRODUCER	26-Feb-2013 10:13
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Company: **Cascade Petroleum**

**Schlumberger**

Well: **Forristall State 36-11S-56W-02**

Field: **Wildcat**

County: **Lincoln**

State: **CO**

CMENT BOND

GAMMA RAY

CASING COLLAR LOG