

Company: Cascade Petroleum LLC

Well: Monks A11-9S-56W-01

Field: Wildcat

County: Lincoln

State: Colorado

County: Lincoln

Field: Wildcat

Location: SHL: 750' FSL & 750' FEL

Well: Monks A11-9S-56W-01

Company: Cascade Petroleum LLC

CEMENT BOND

GAMMA RAY

CASING COLLAR LOG

SHL: 750' FSL & 750' FEL

Elev.: K.B. 5419.00 ft
G.L. 5402.00 ft
D.F.

Permanent Datum: _____

GROUND LEVEL _____

Elev.: 5402.00 ft _____

Log Measured From: _____

KELLY BUSHING _____

17.00 ft above Perm. Datum

Drilling Measured From: _____

KELLY BUSHING _____

API Serial No. 05-073-06498-000C

Section 11

Township 9S

Range 56W

PVT DATA			
Oil Density	Run 1	Run 2	Run 3
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
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	28-May-2013			
Run Number	1			
Depth Driller	8677 ft			
Schlumberger Depth	8452 ft			
Bottom Log Interval	8445 ft			
Top Log Interval	3300 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	5.500 in			
Weight	17 lbm/ft			
Grade				
From				
To				
Maximum Recorded Temperatures	213 degF			
Logger On Bottom	28-May-2013	9:19		
Unit Number	2135	Fort Morgan		
Recorded By	C MARCH			
Witnessed By	MIKE DECKER			

DEPTH SUMMARY LISTING

Date Created: 28-MAY-2013 14:00:22

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46P-XS
Serial Number:	6515	Serial Number:	1919	Serial Number:	711057
Calibration Date:	23-OCT-2012	Calibration Date:	22-APR-201	Length:	15000 FT
Calibrator Serial Number:	1	Calibrator Serial Number:	78135	Conveyance Method:	Wireline
Calibration Cable Type:	7-46P	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-7	Calibration RMS:	13		
Wheel Correction 2:	-5	Calibration Peak Error:	24		

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:	1.00 FT

Depth Control Remarks

1. IDW WHEELS PRIMARY DEPTH CONTROL
2. Z CHART 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.

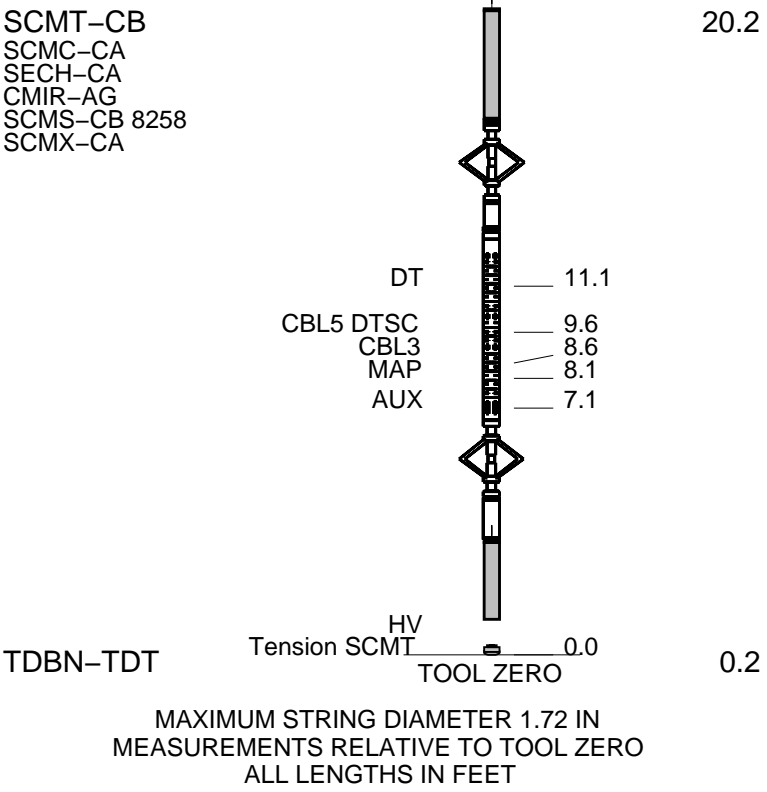
OTHER SERVICES1 OS1: RST OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
CORRELATED TO TRIPLE COMBO	
RAN ON 7-MAY-2013 BY SCHLUMBERGER	
REPEAT RAN UNDER 0 PSI	

MAIN PASS RAN UNDER 2000 PSI	
CREW: HOFFMAN, ALANZO, DAVID	
THANK YOU	

RUN 1 SERVICE ORDER #: PROGRAM VERSION: 19C2-270 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

SURFACE EQUIPMENT					
WITM-A PSC_16MHZ					
DOWNHOLE EQUIPMENT					
MH-22					53.3
MH-22					
AH-38	Detail MT				
	TelStatus				
	CTEM		—	51.5	51.7
PSPT					51.5
PSC-A					
PSPT-A 1765					
PSTC-A					
PBMS-A	GR		—	47.8	
10k_Sapphire_Mano					
RTD_Thermometer					
GR	Well_Temp		/	44.7	
CCL	Manometer		/	44.6	
PBMS	CCL		—	44.0	
	PBMS PSTC		—	43.2	
RST-C					43.2
RSCH-A					
RSC-E					
RSS-A					
RSXH-A					
RSX-E					
	RSC-A Far		/	34.1	
	RSC-A PNG		/		
	RSC-A Nea		/		
	RSX-A PNG		—	33.6	



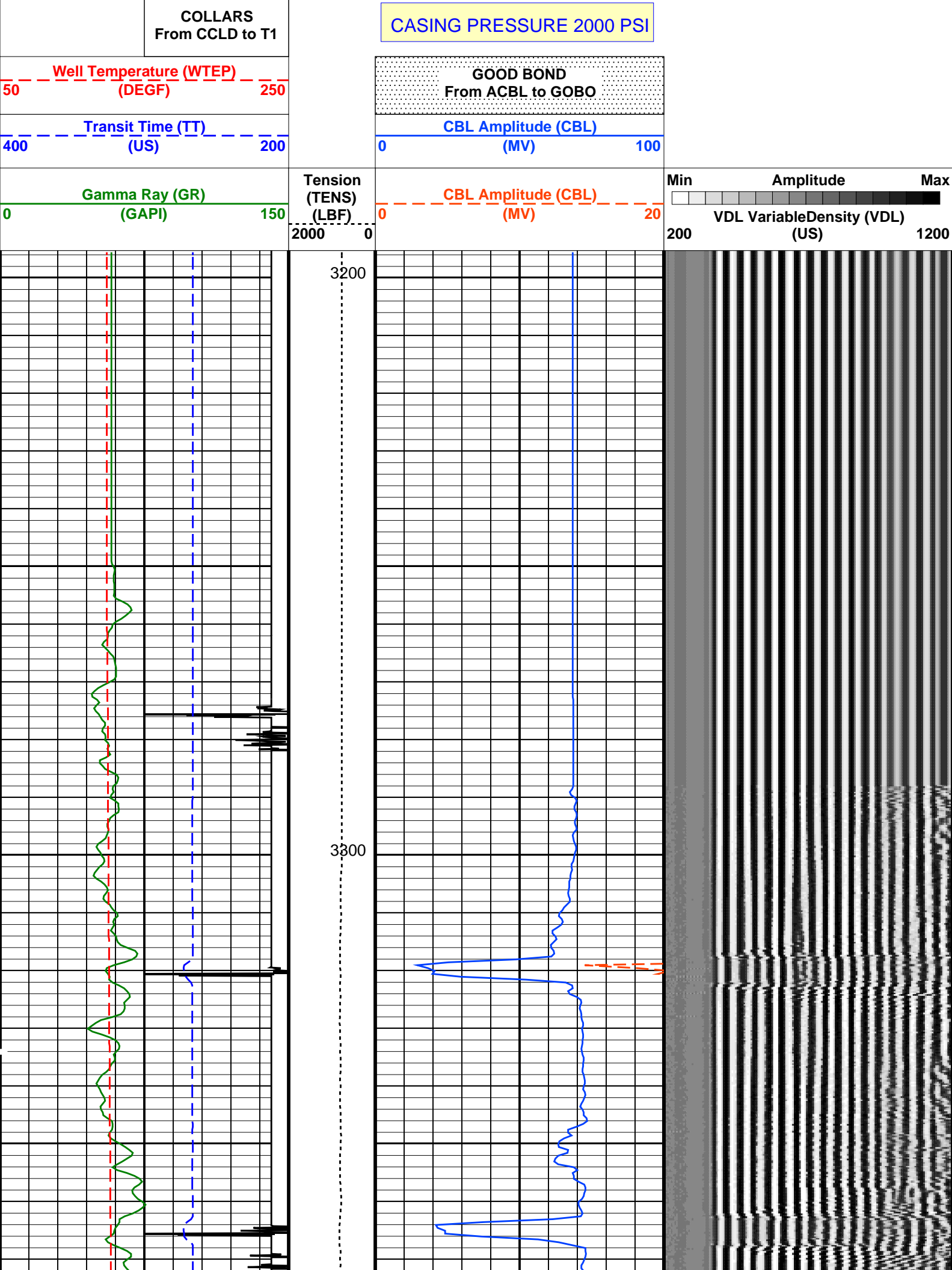
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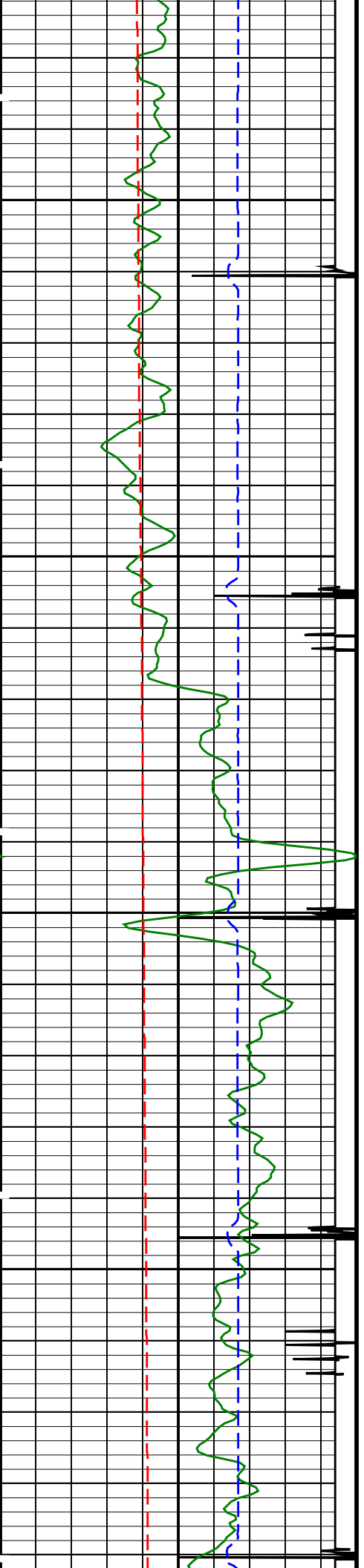
MAIN PASS

MAXIS Field Log

Company: Cascade Petroleum LLC				Well: Monks A11-9S-56W-0			
Input DLIS Files							
DEFAULT	SCMT_RST_PSP_004LUP	FN:3	PRODUCER	28-May-2013 10:56	8452.5 FT	3243.6 FT	
Output DLIS Files							
DEFAULT	SCMT_RST_PSP_005PUP	FN:4	PRODUCER	28-May-2013 12:47	8455.0 FT	3195.0 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	2.82	MRAY	3.7	MRAY	7094.0 12:55:51		
PIP SUMMARY							
Time Mark Every 60 S							

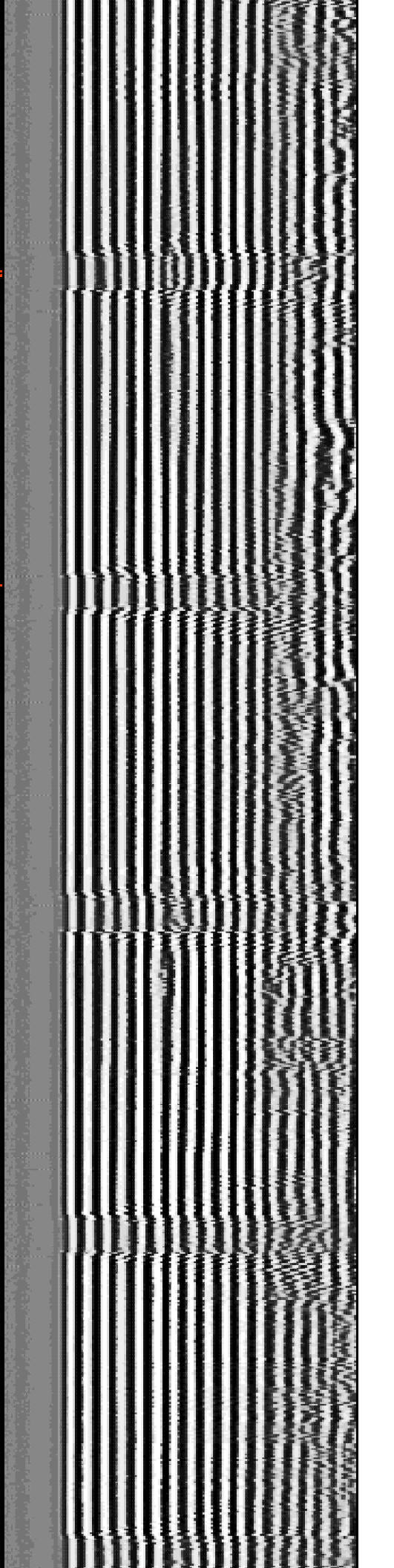
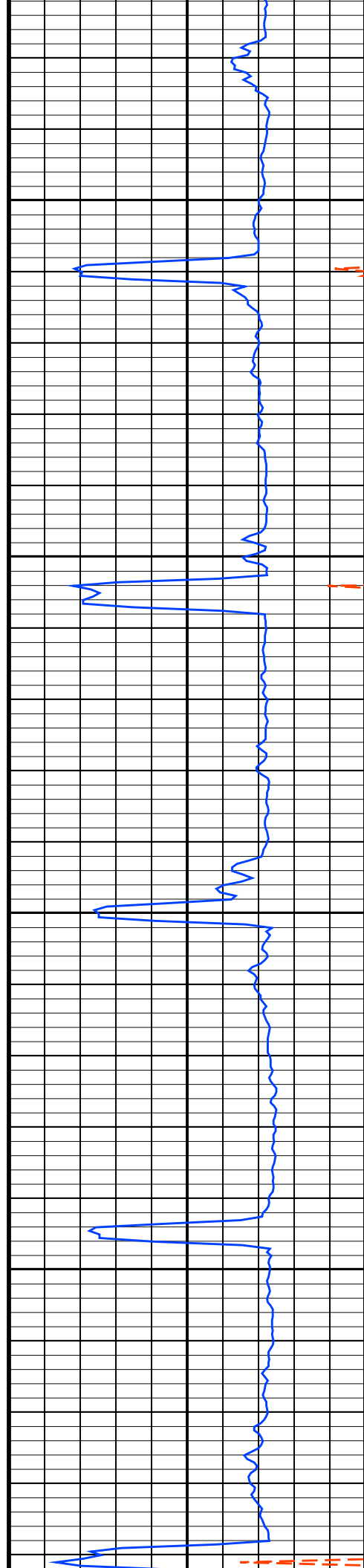
Discriminated CCL (CCLD)		
-3.5	(V)	0.5

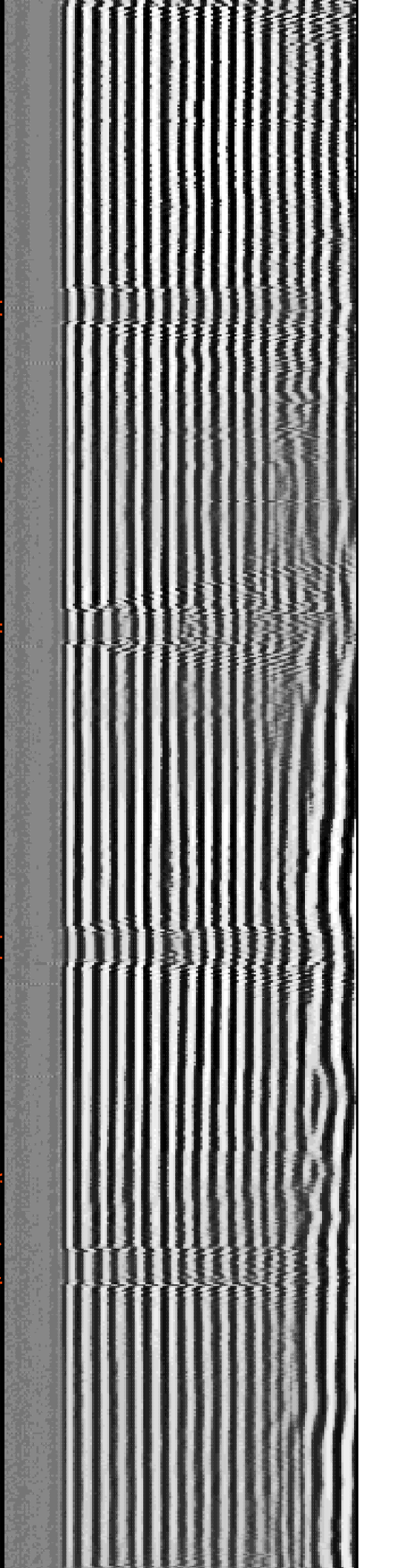
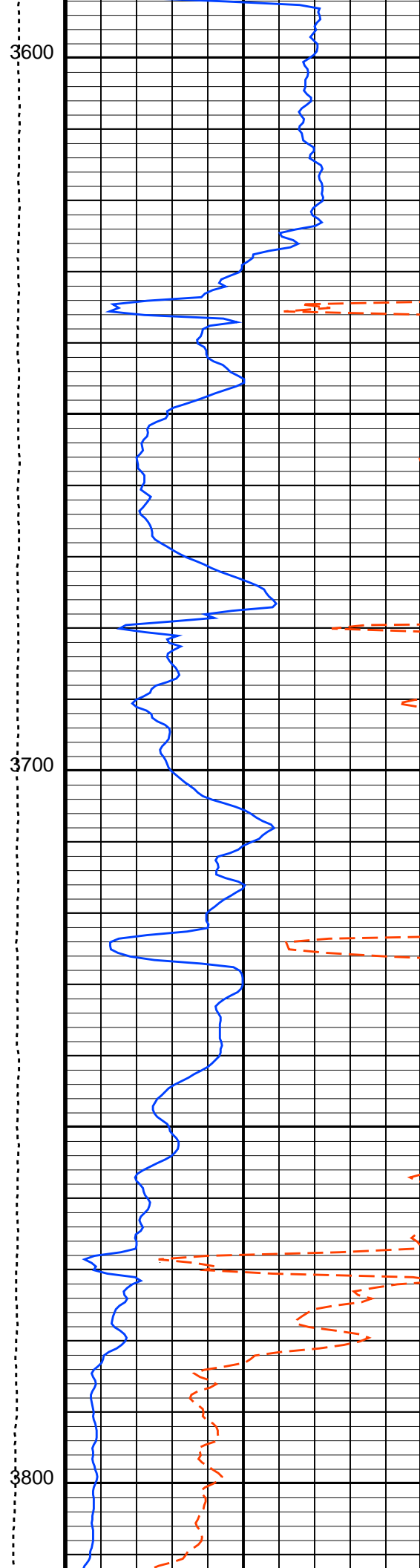
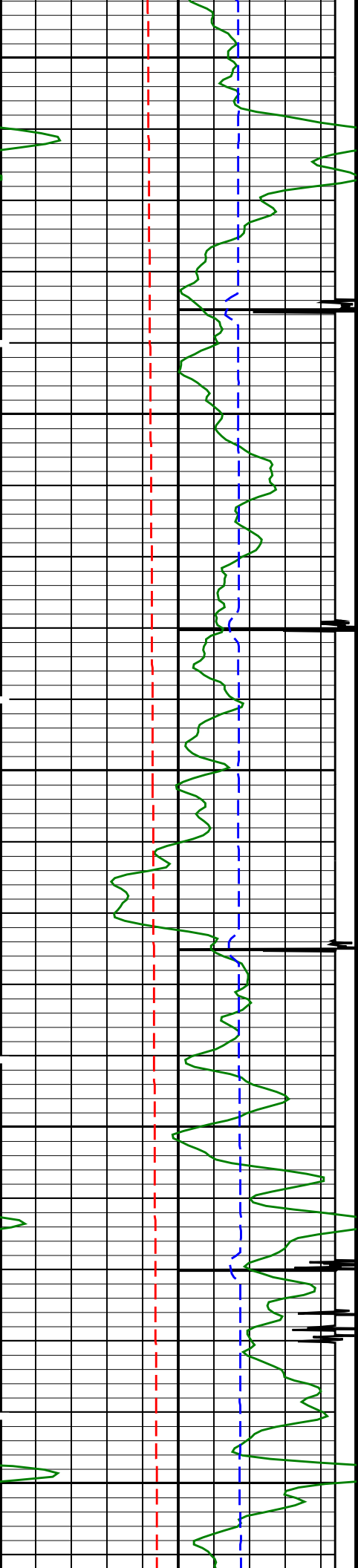


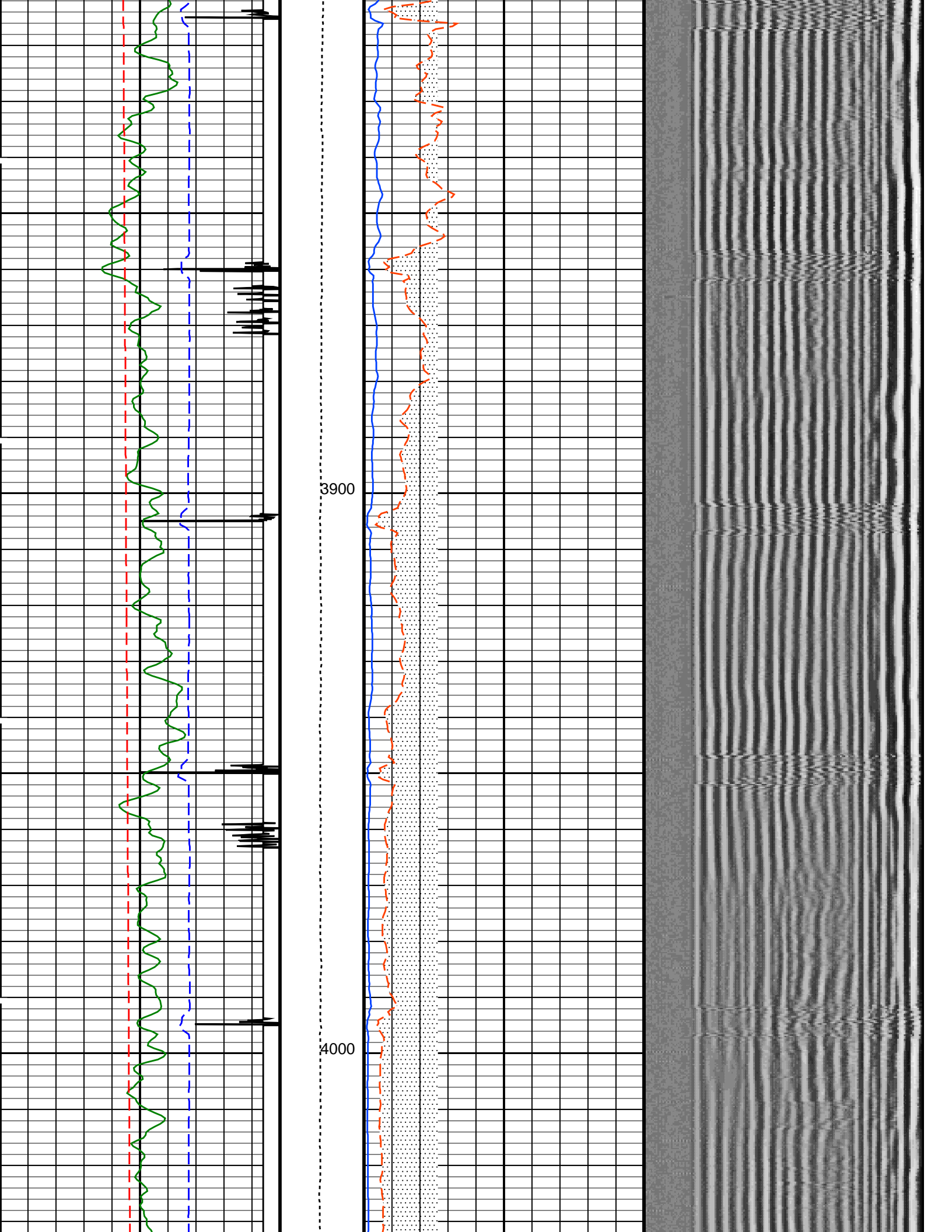


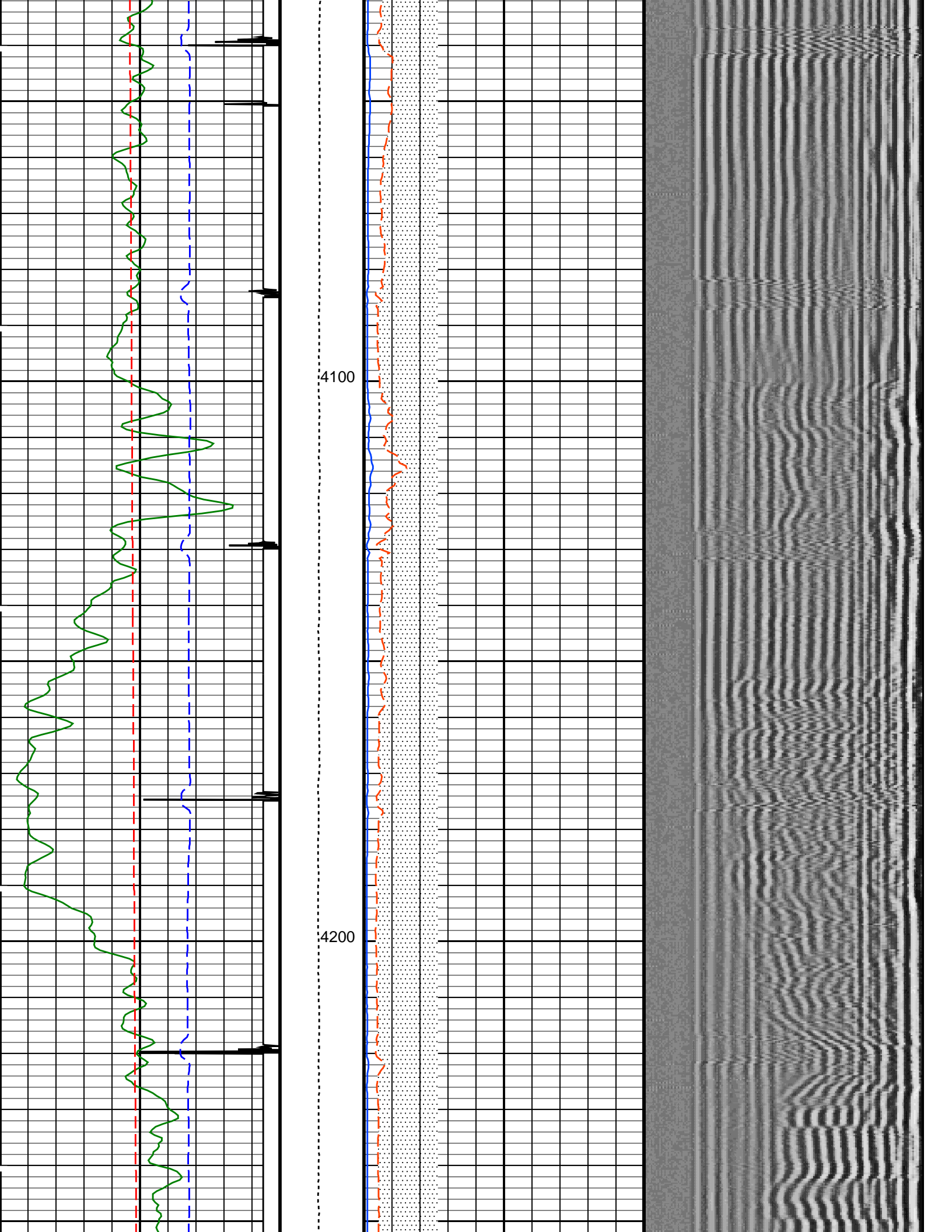
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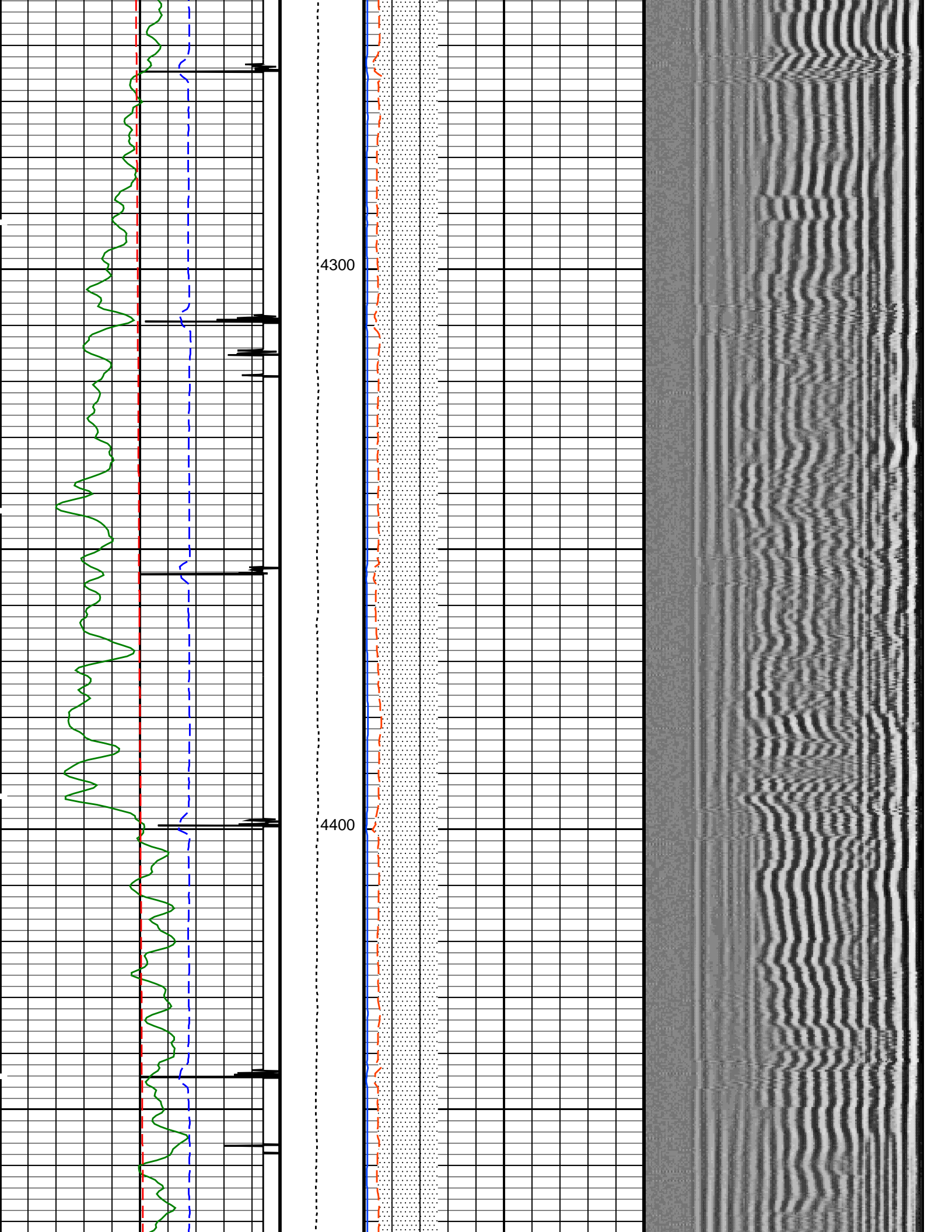
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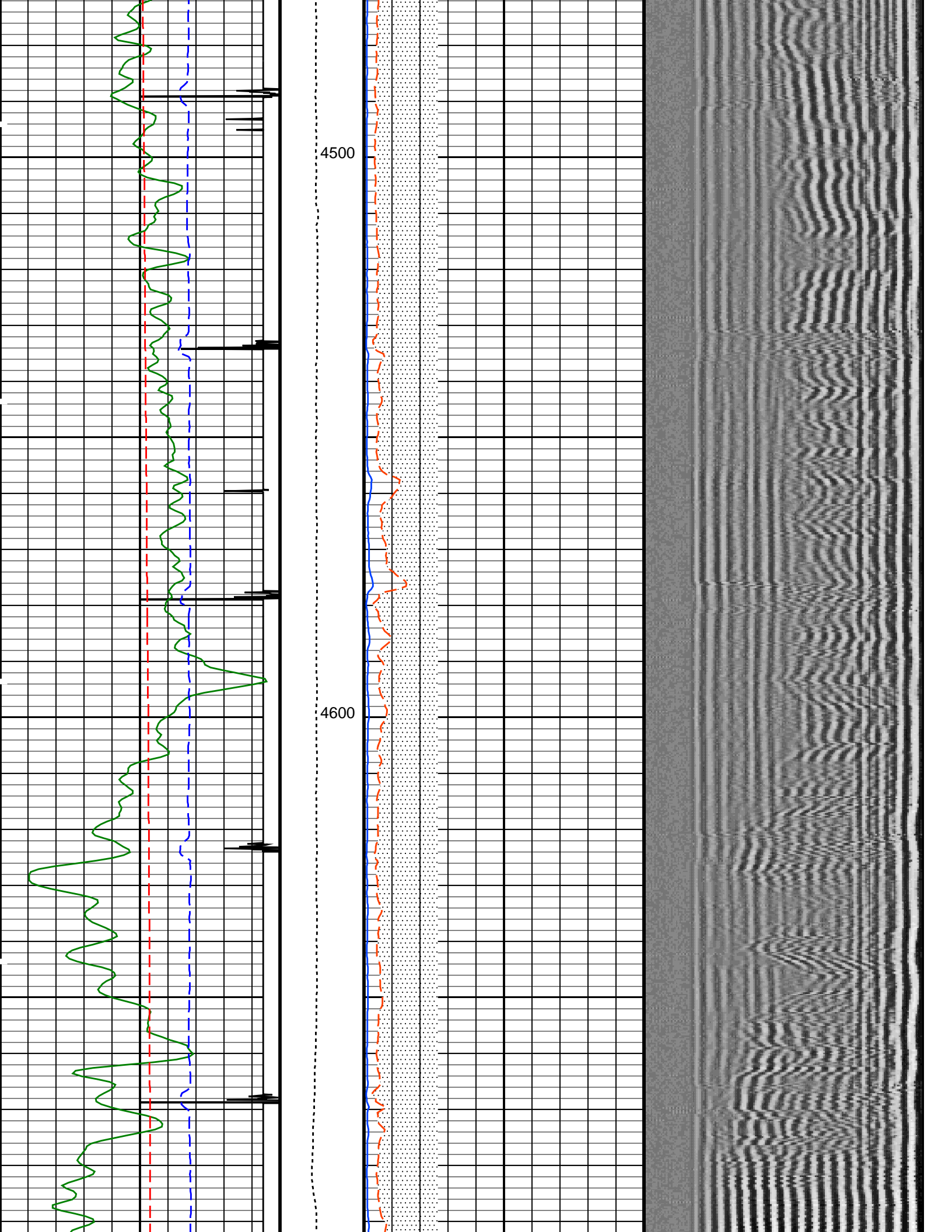


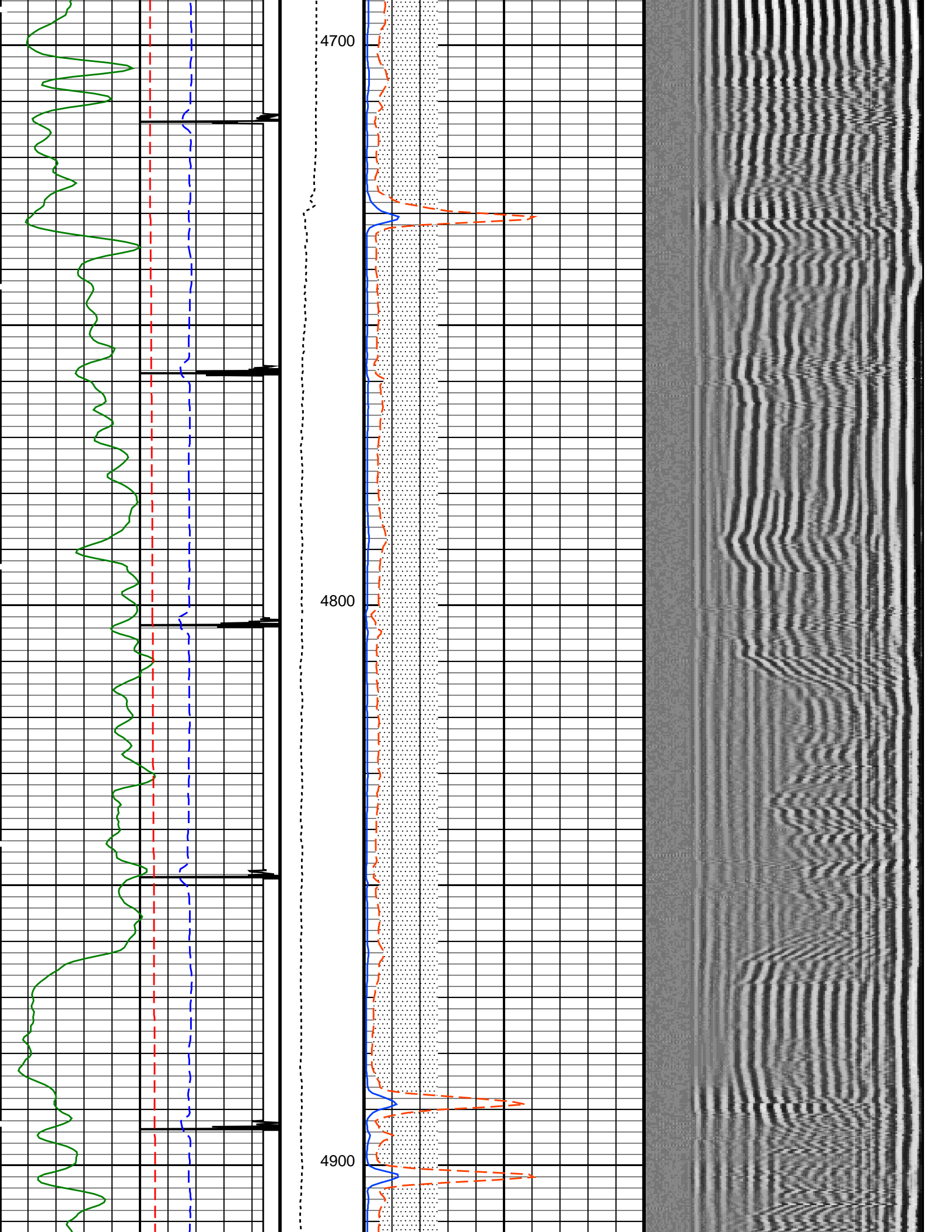


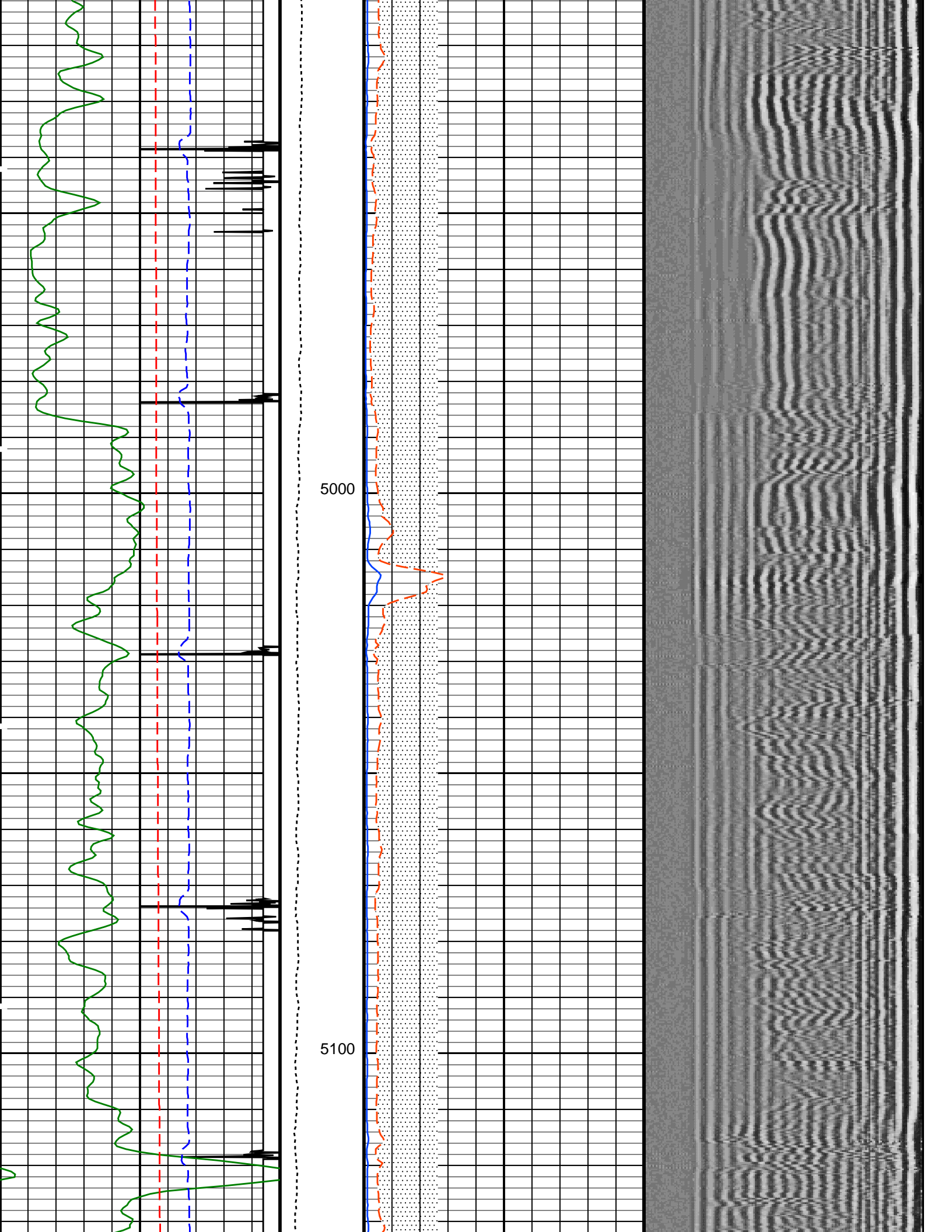


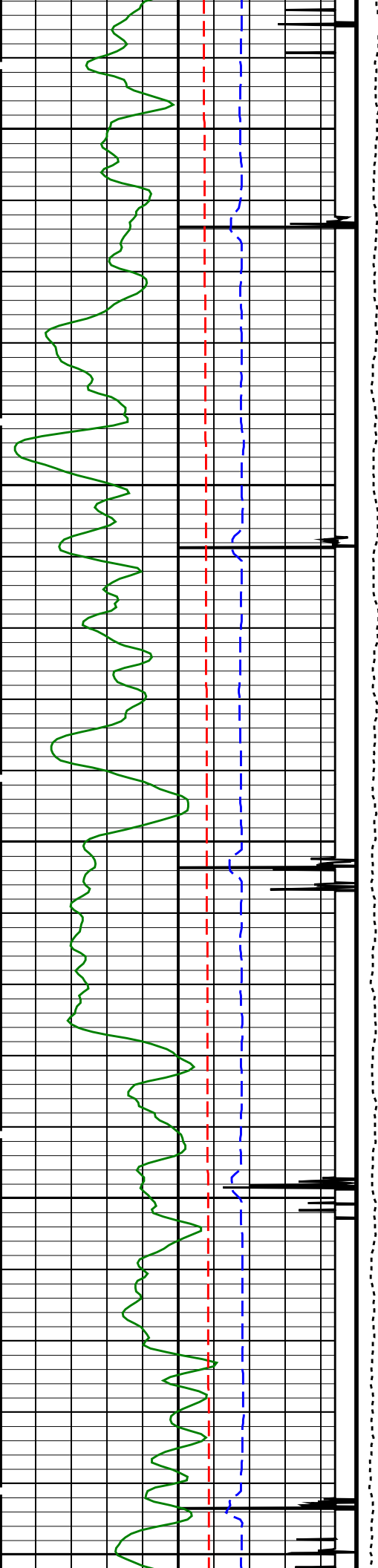






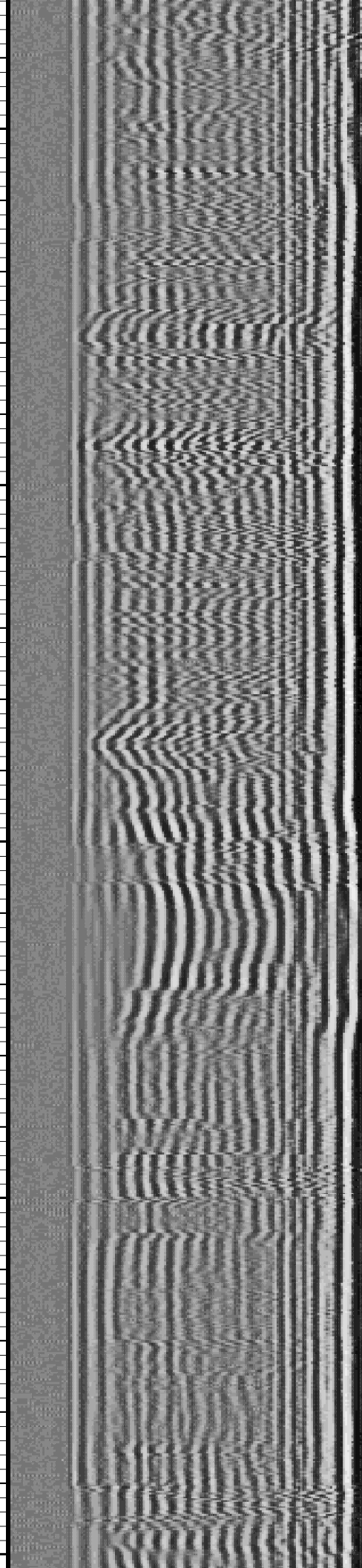
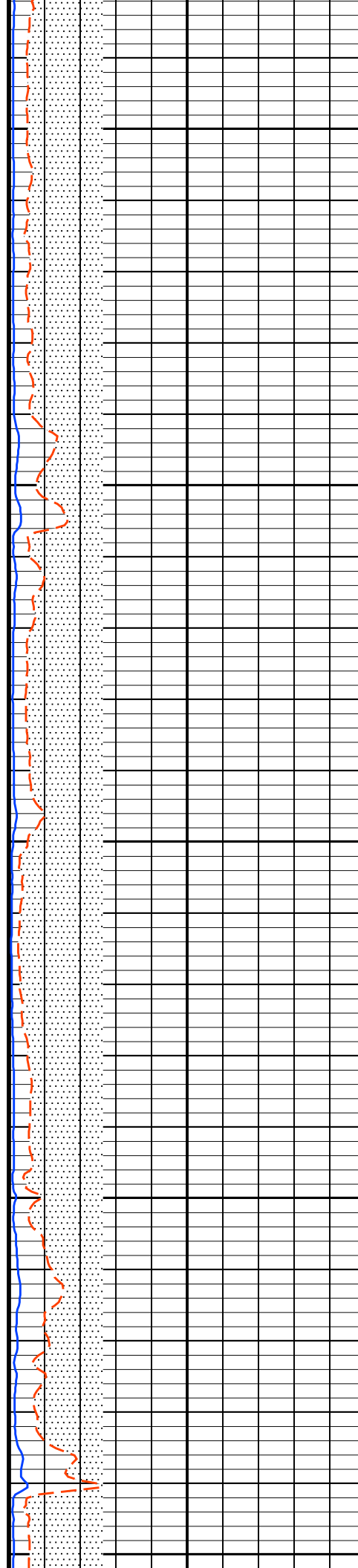


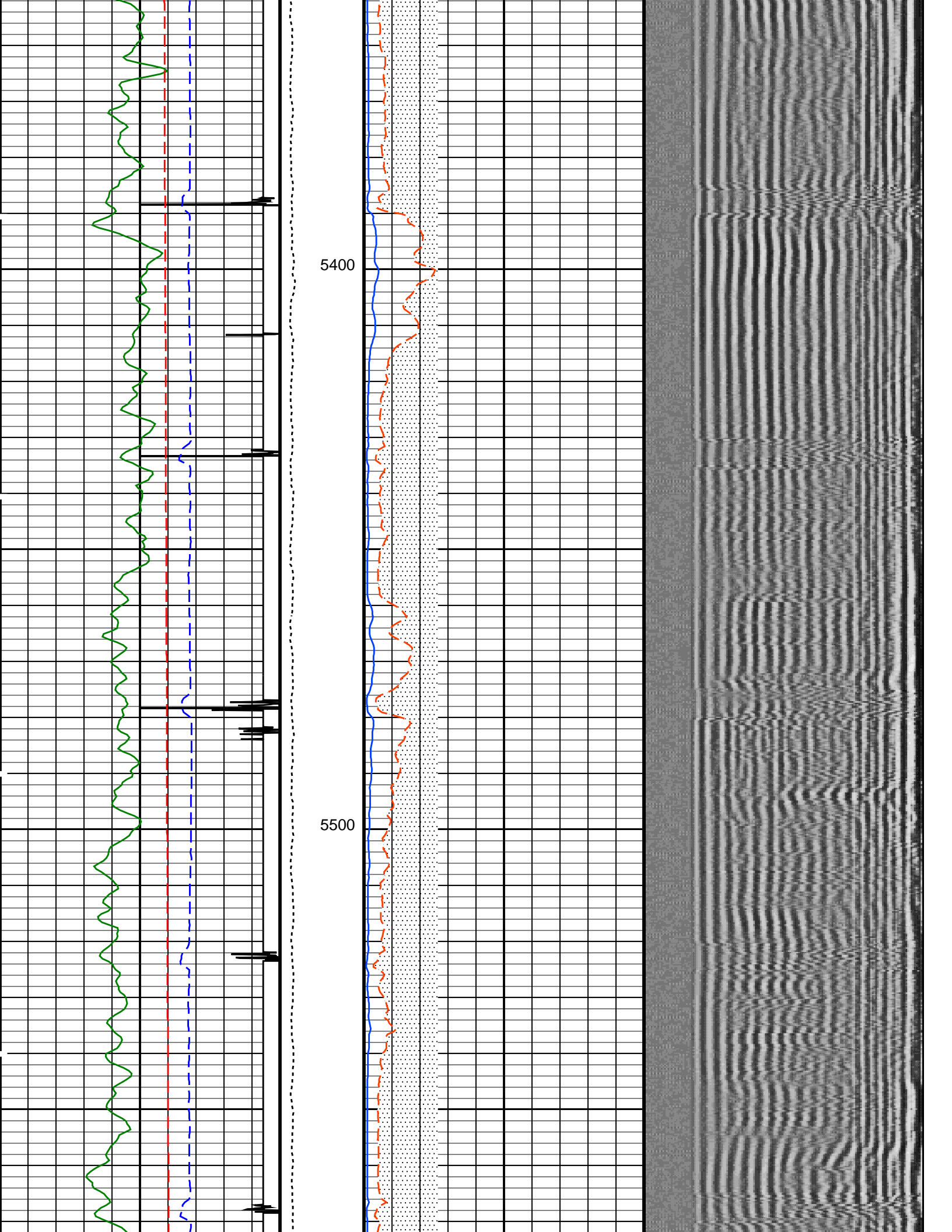


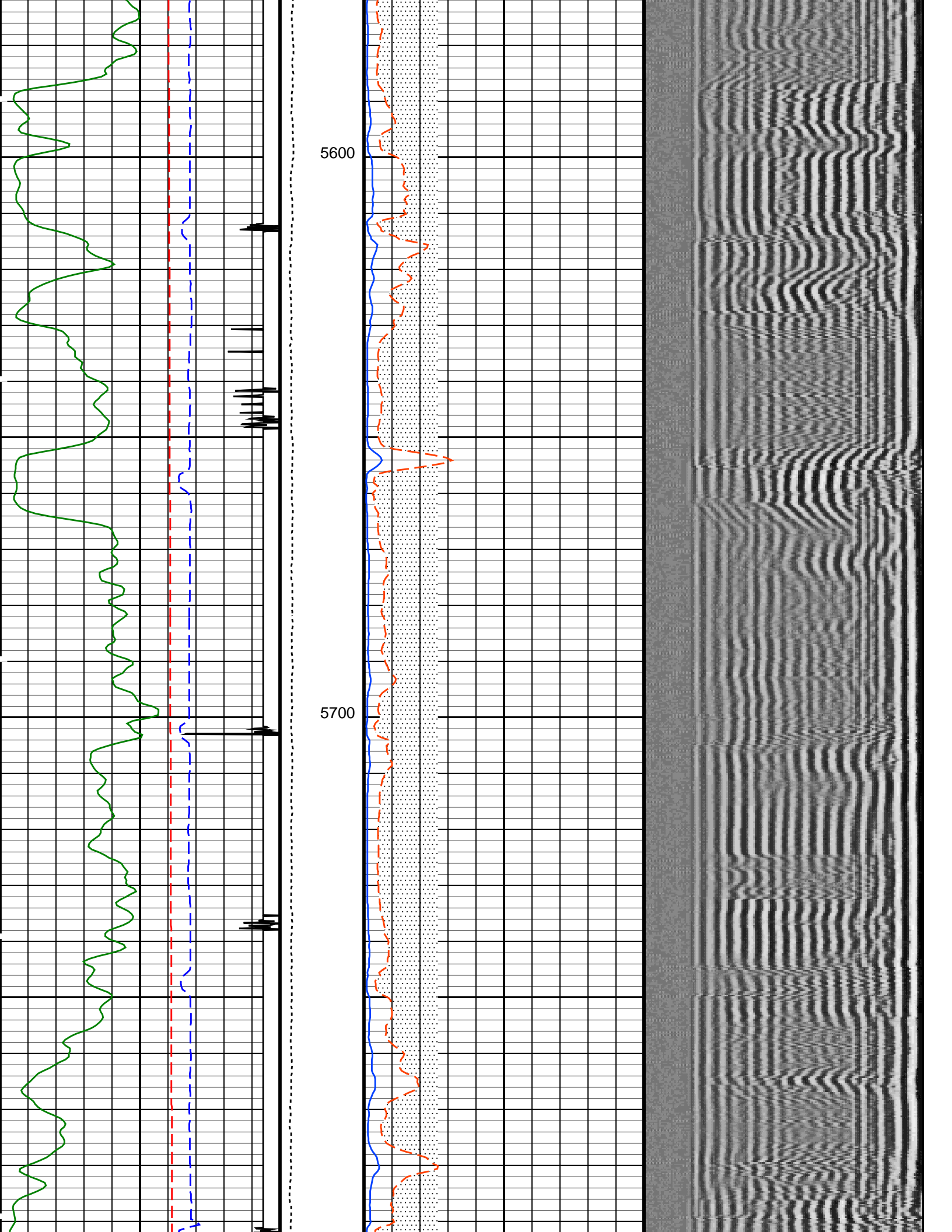


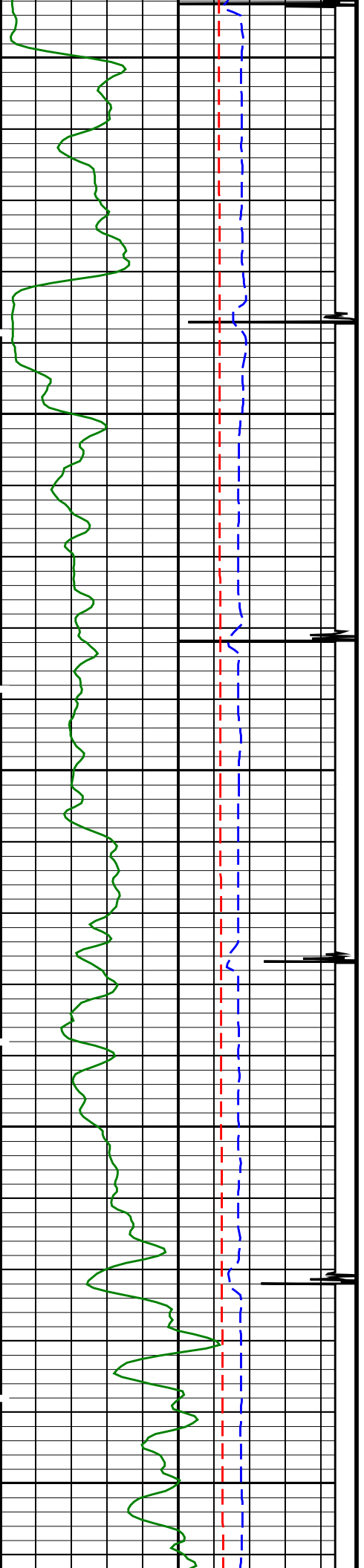
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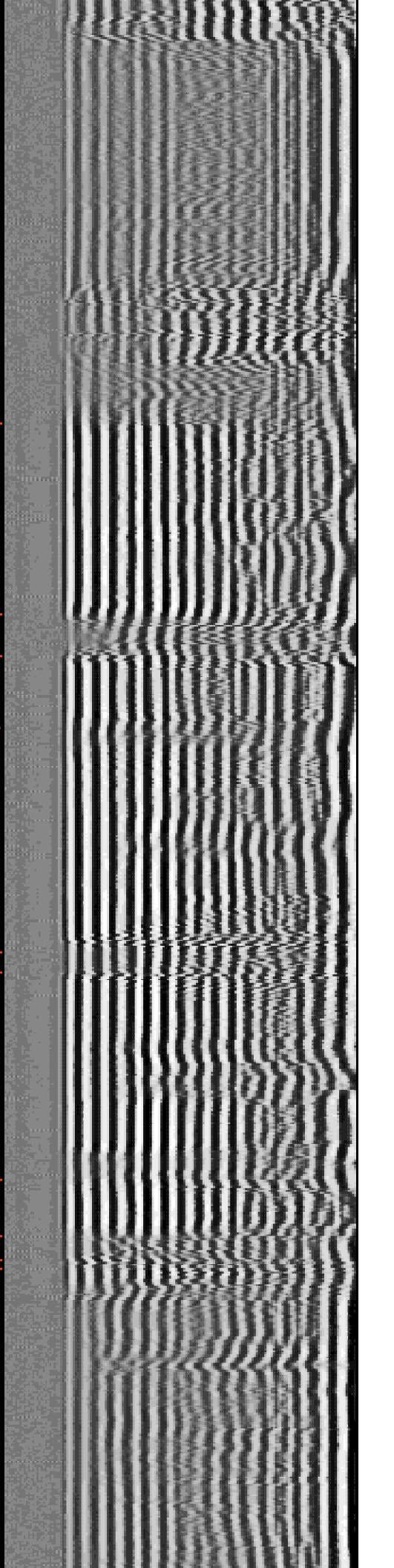
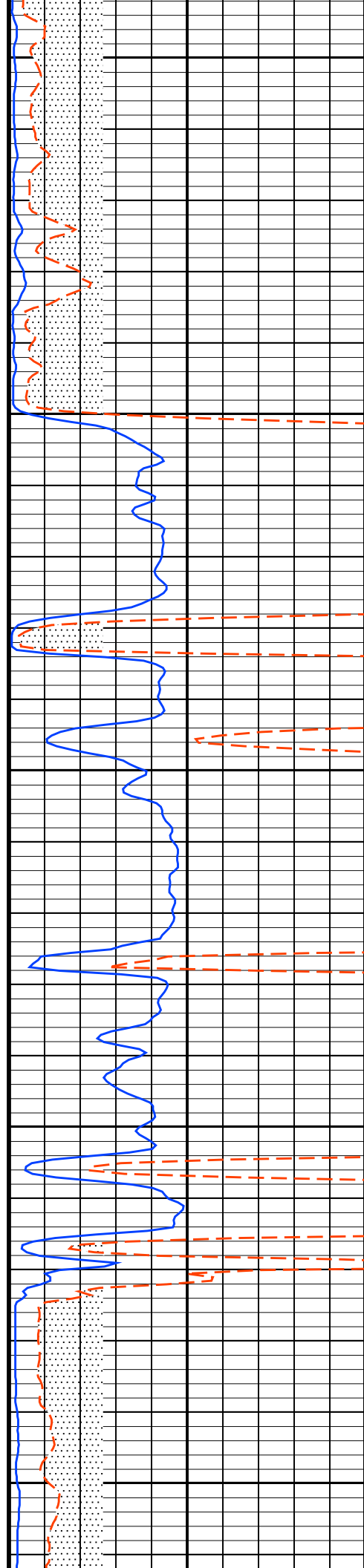


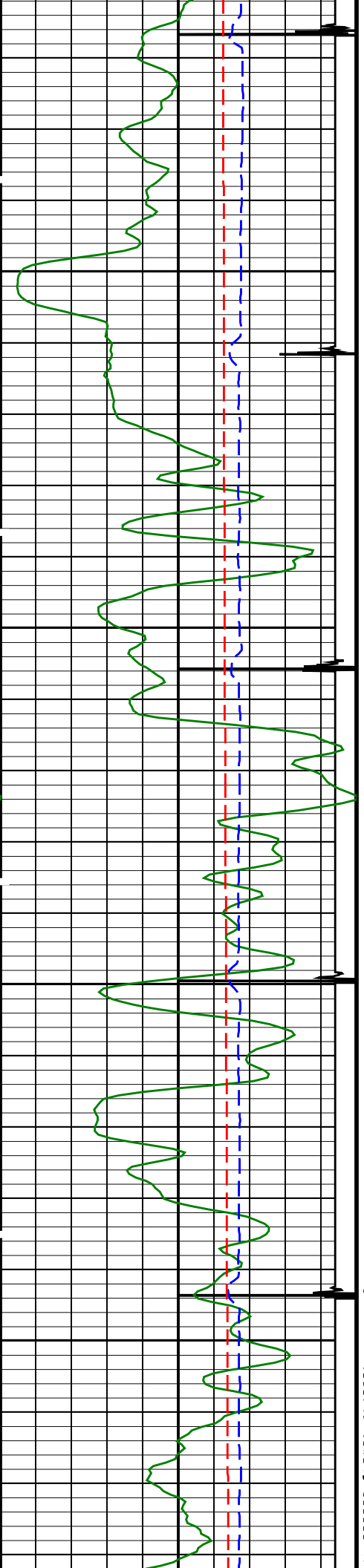


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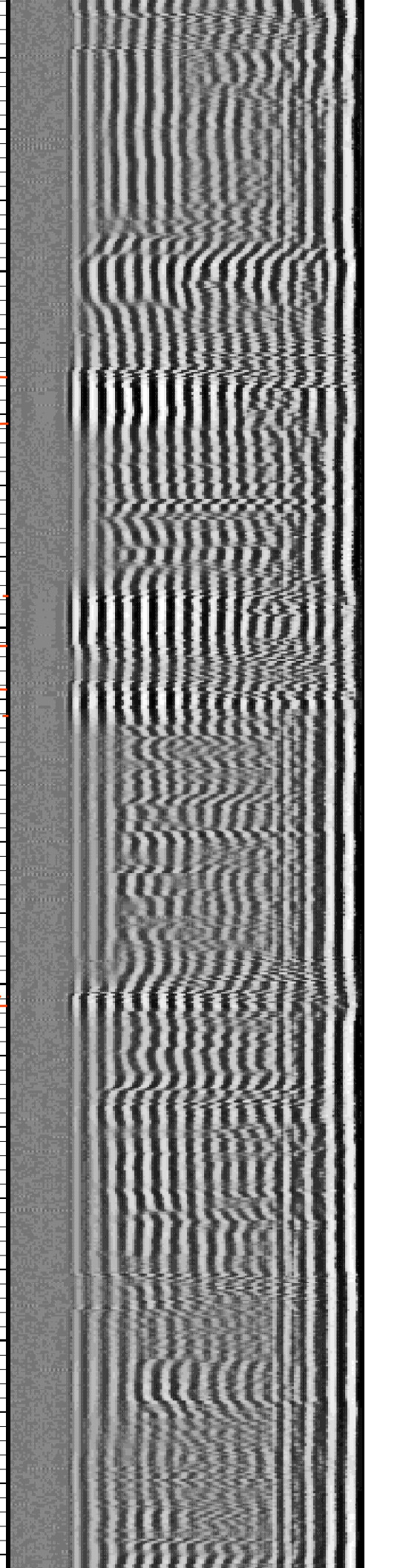
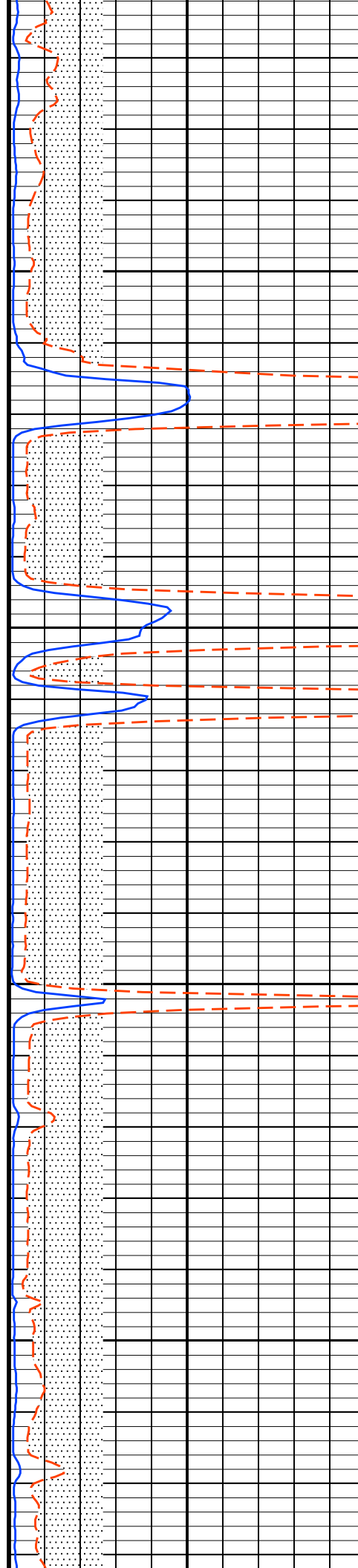
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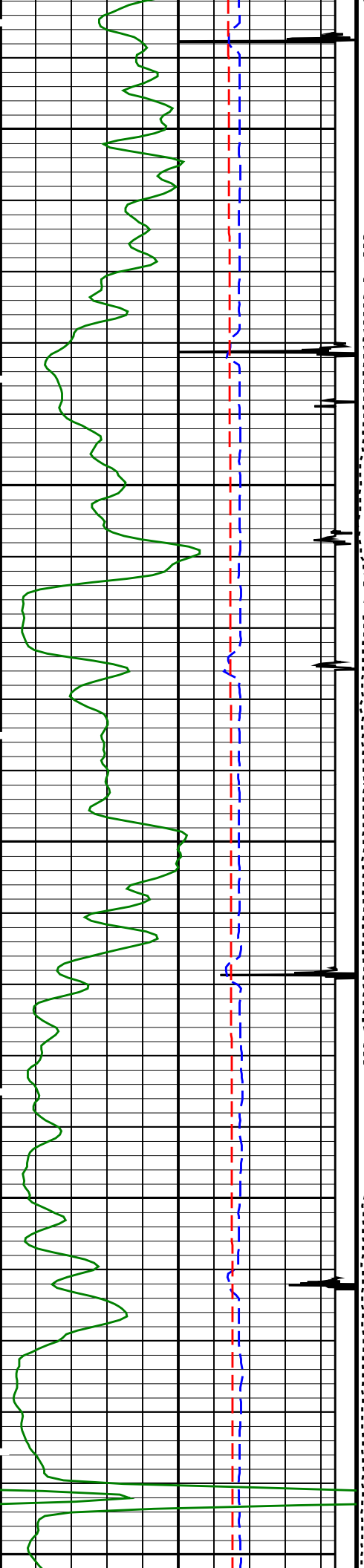




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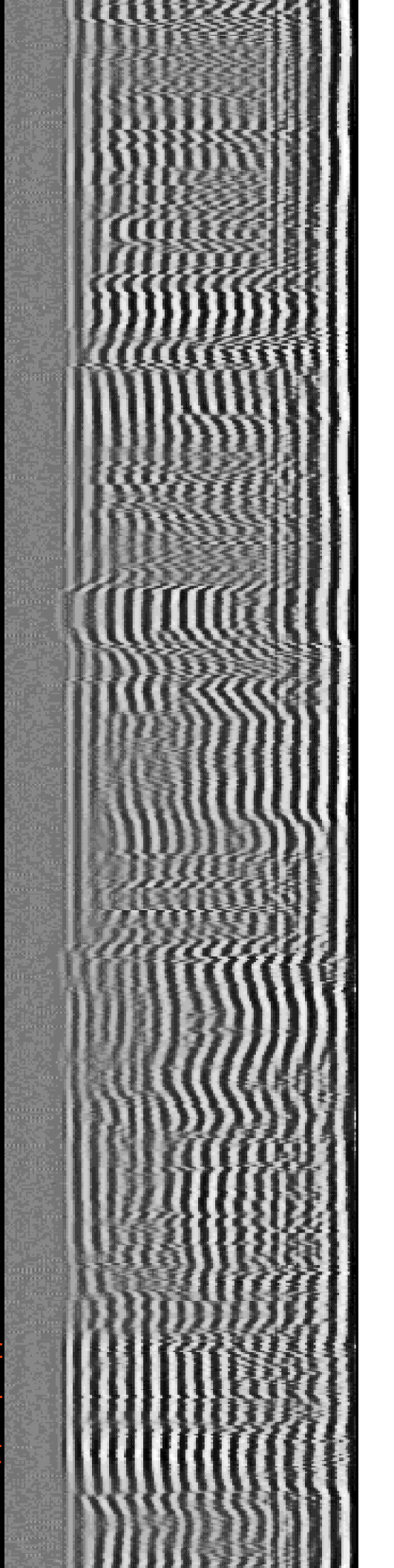
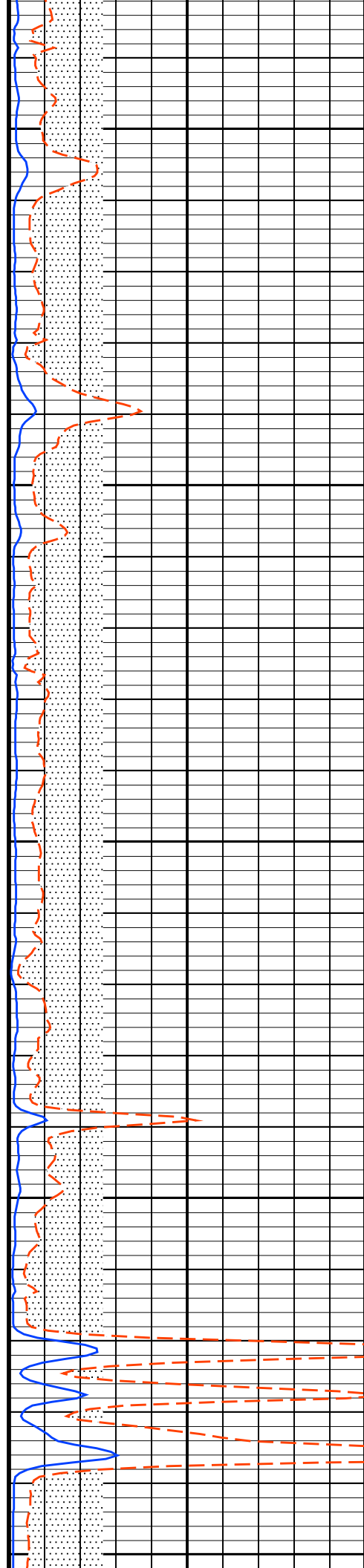
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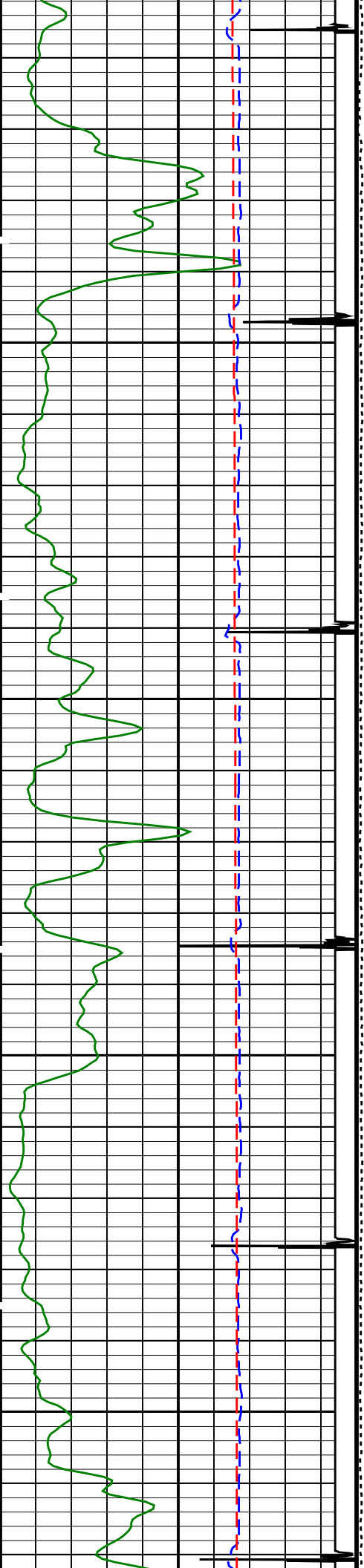




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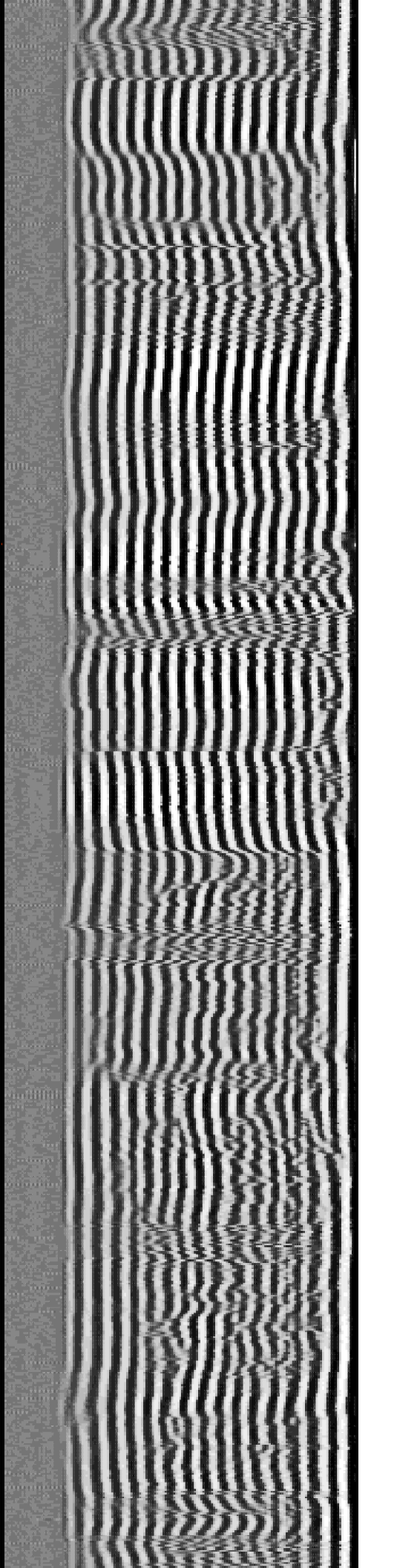
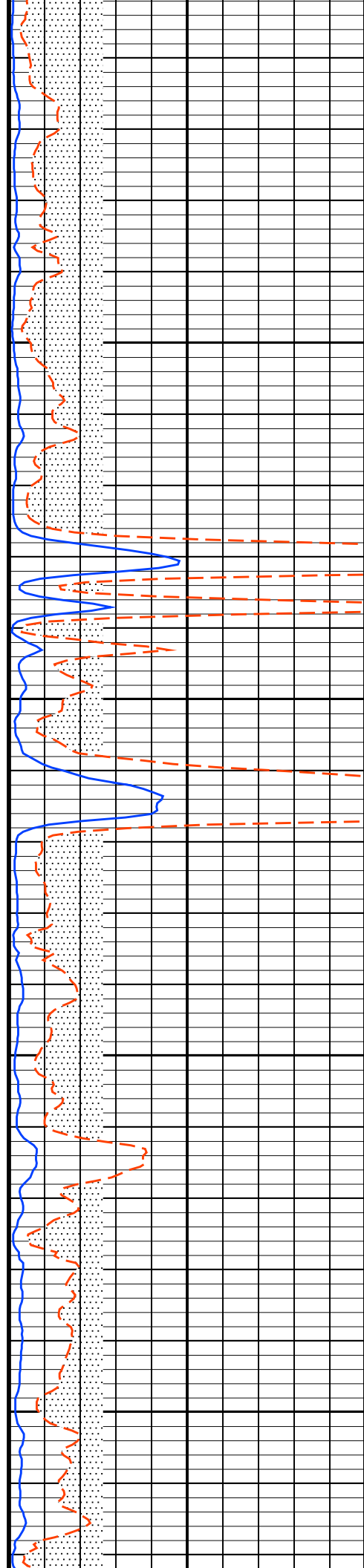
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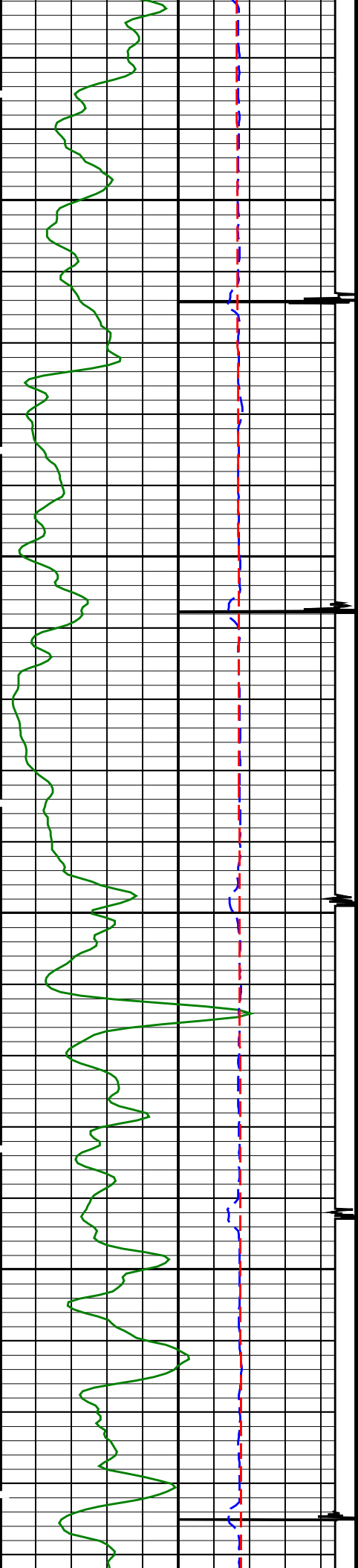




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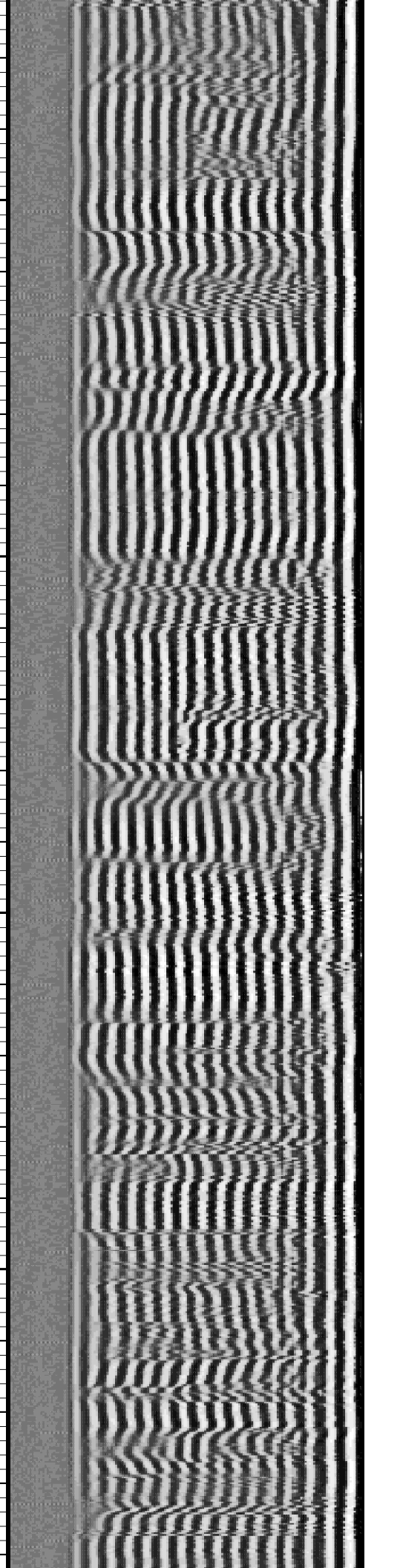
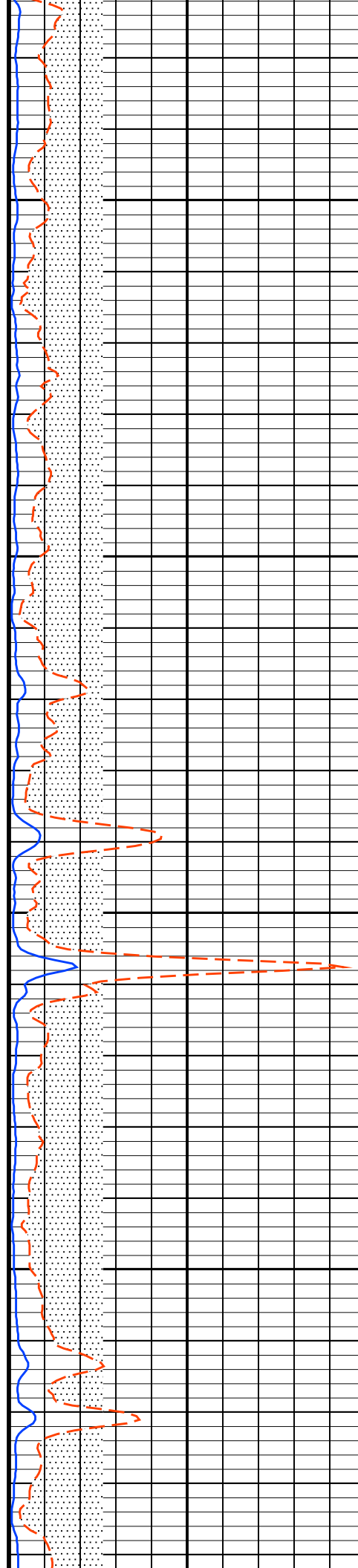
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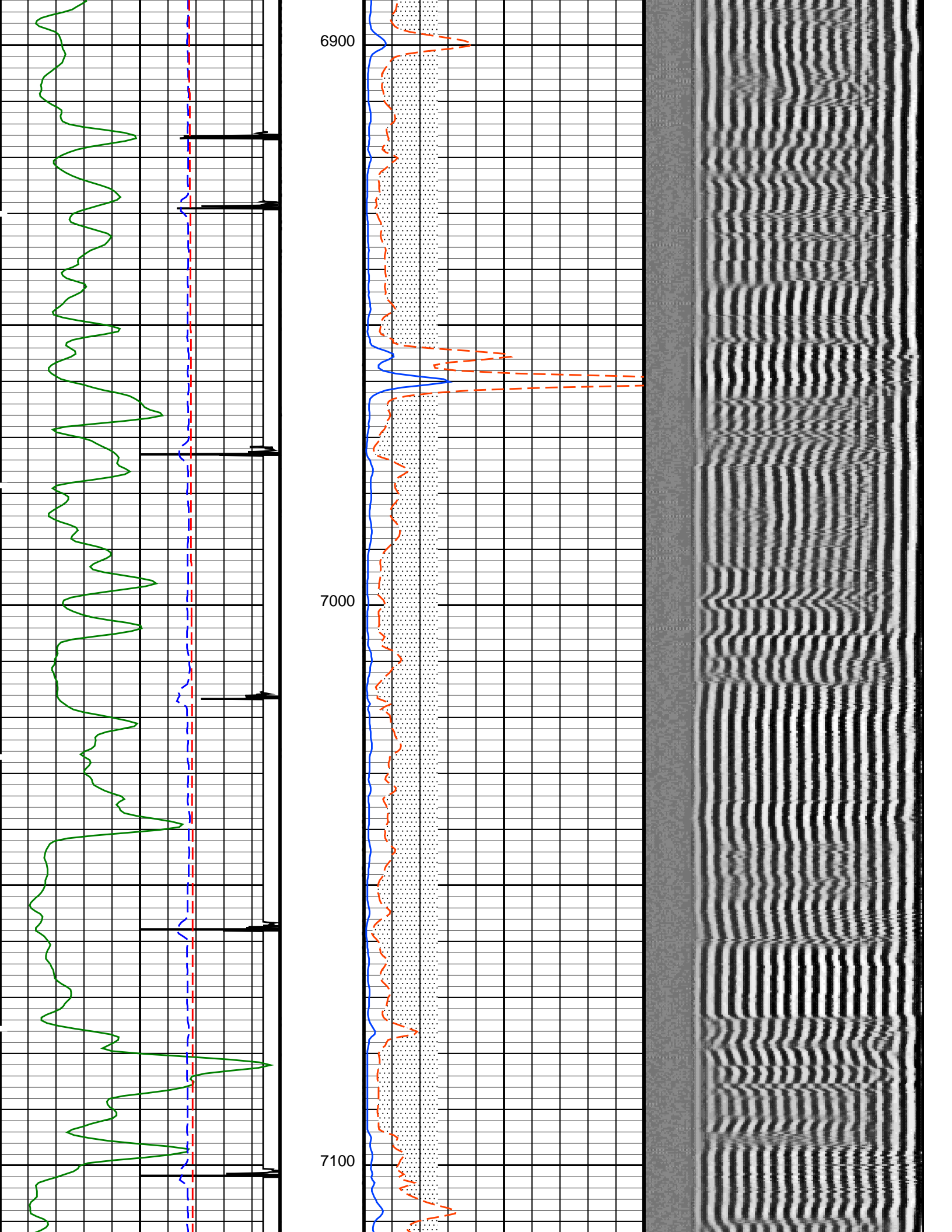


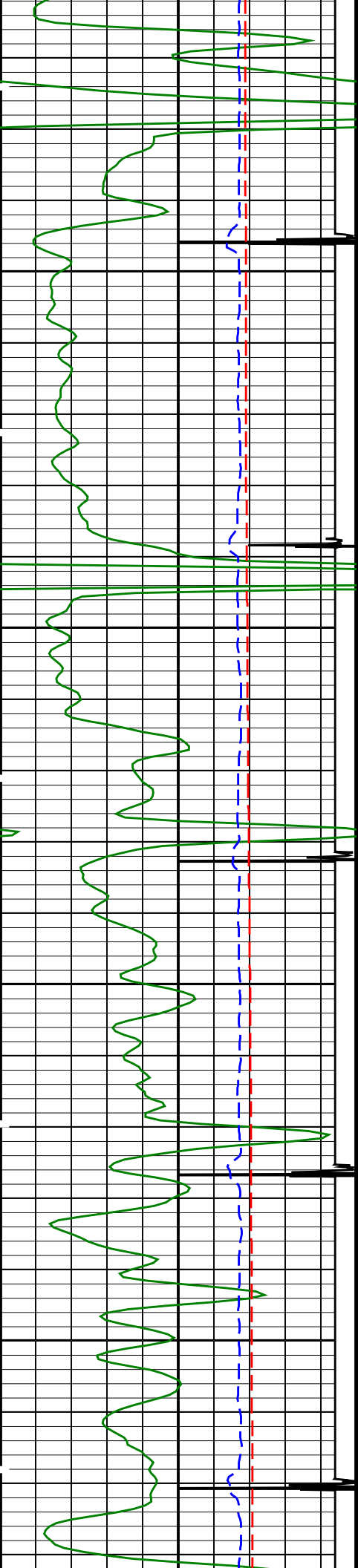


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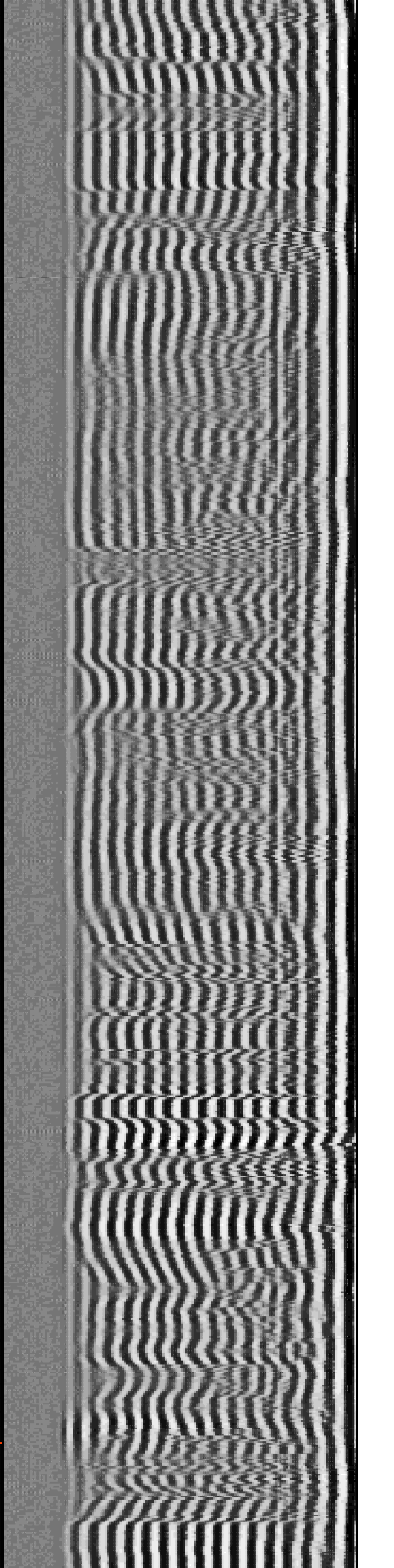
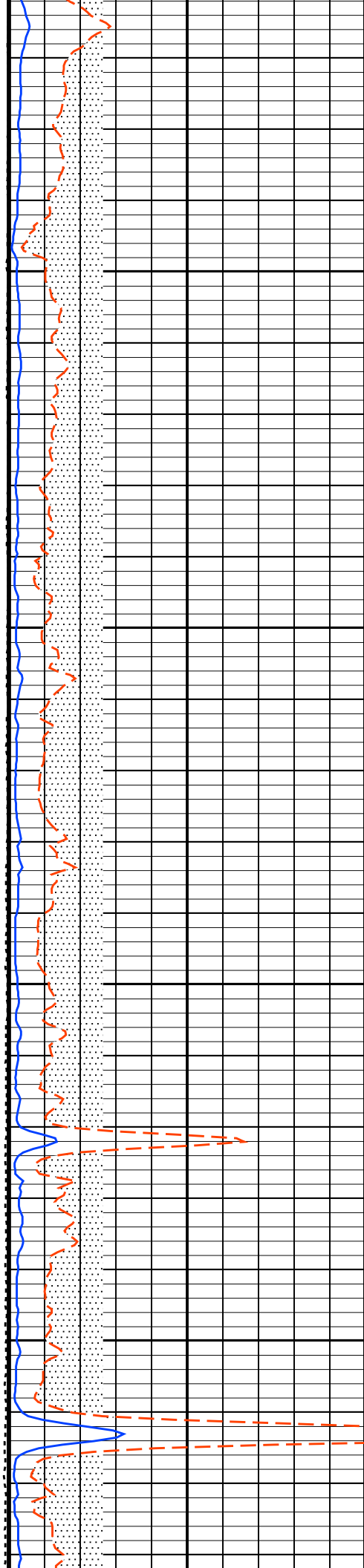


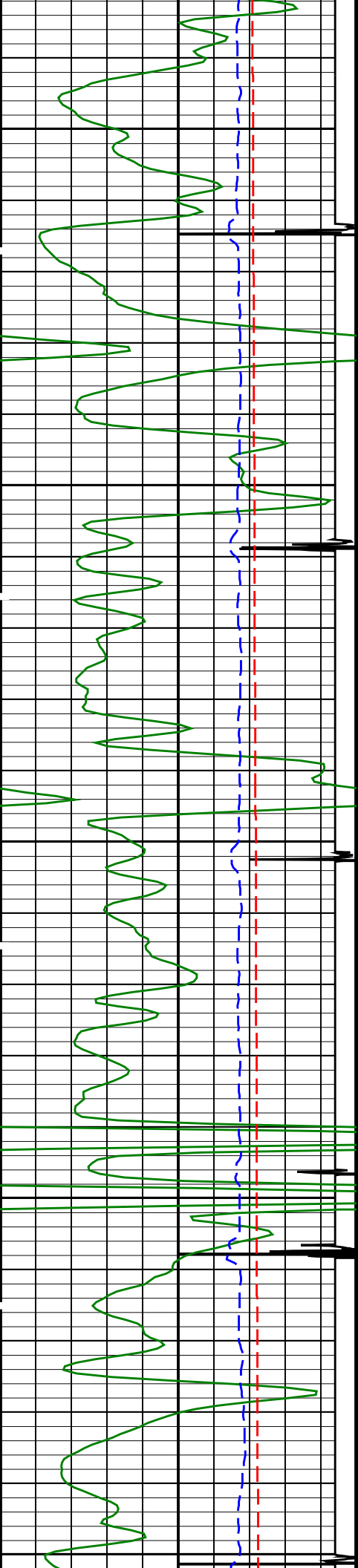




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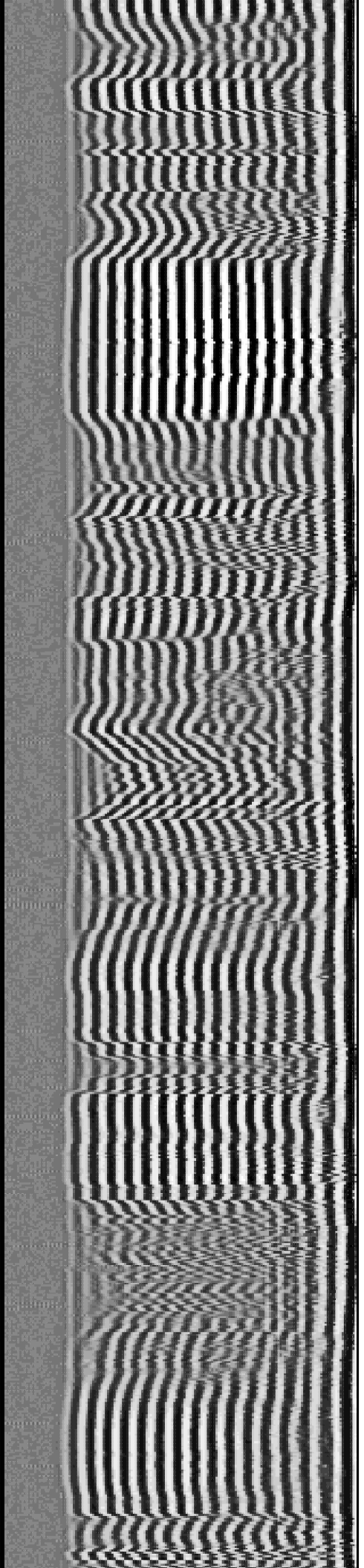
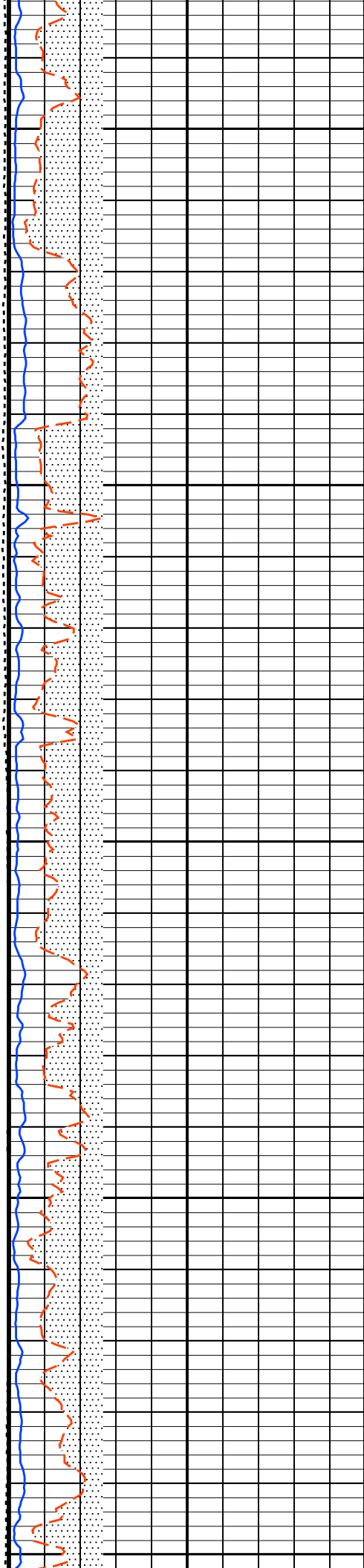
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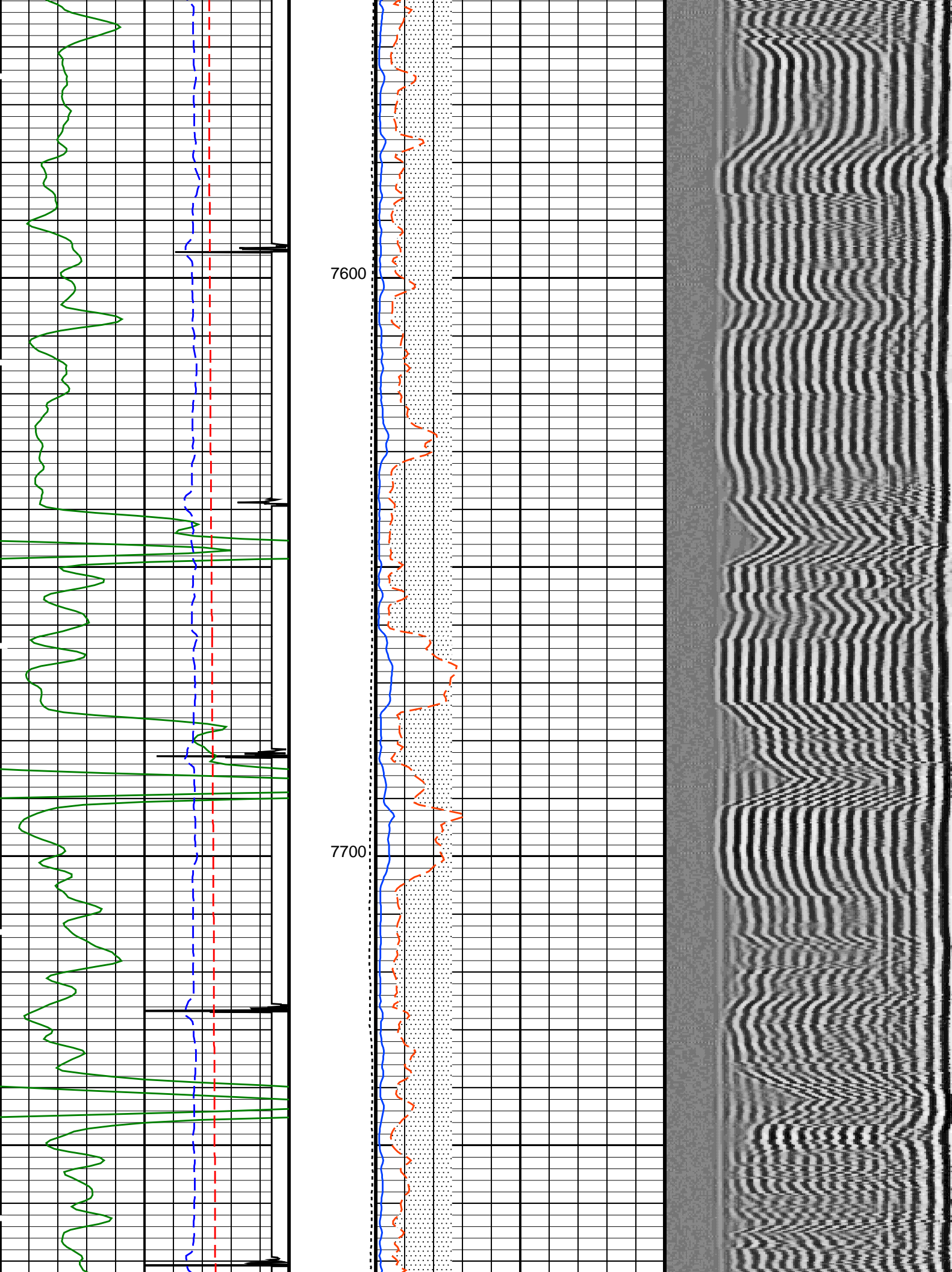


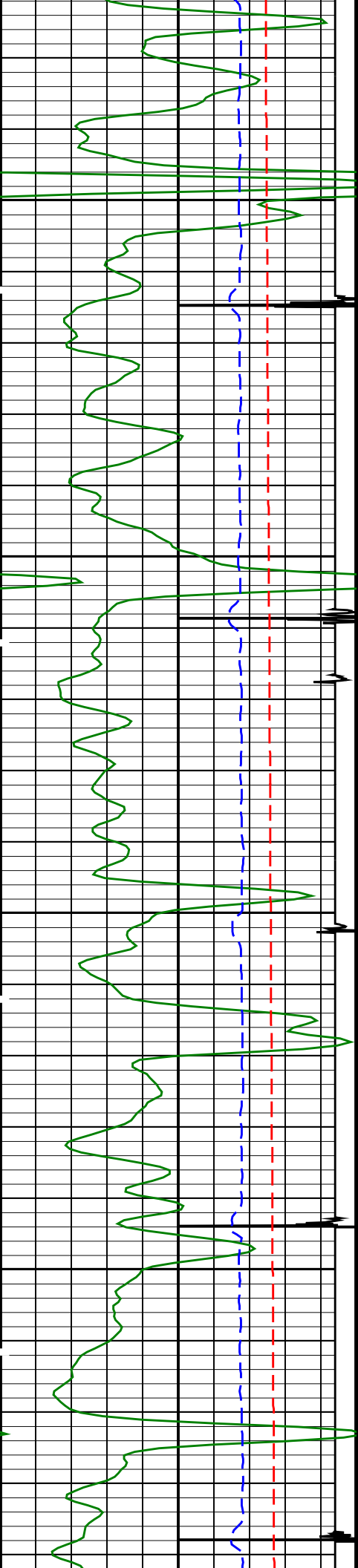


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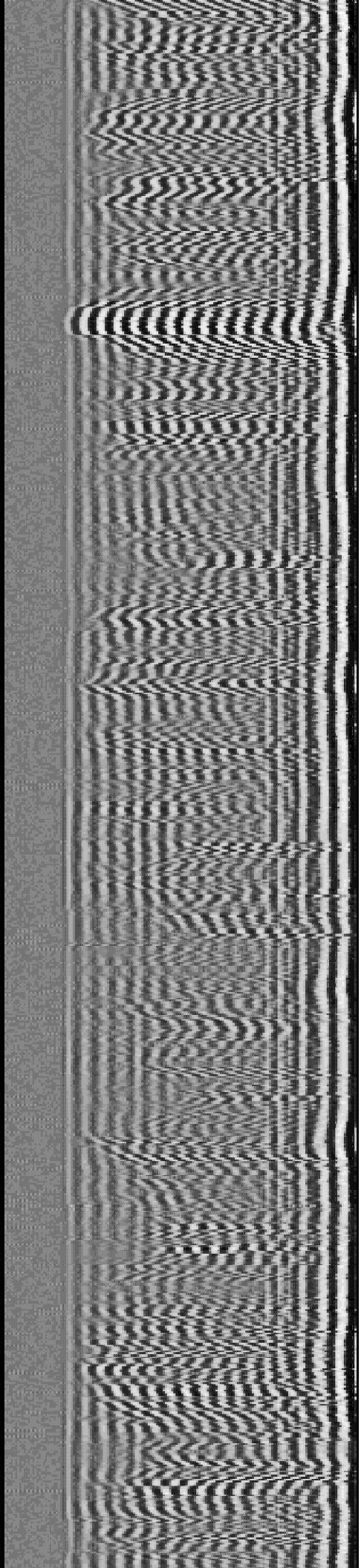
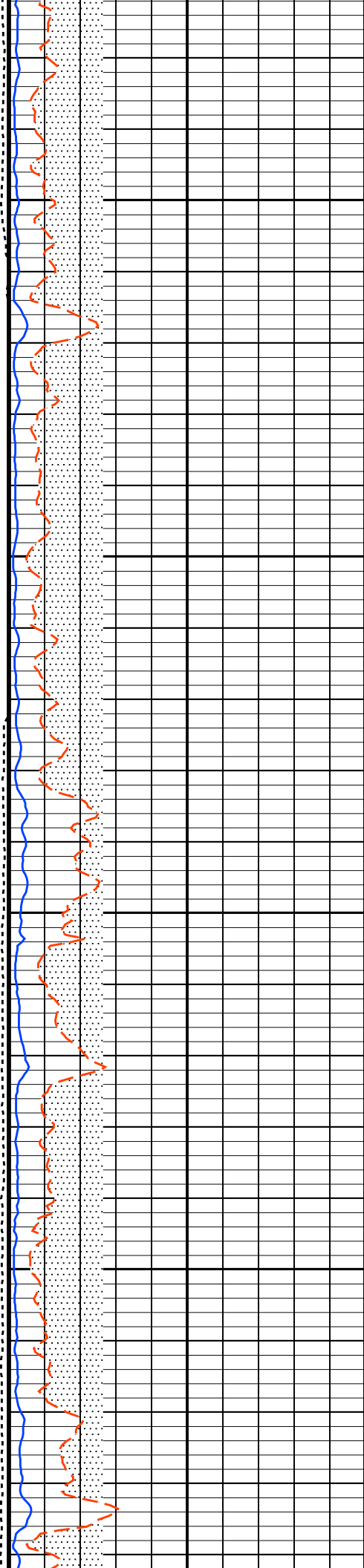


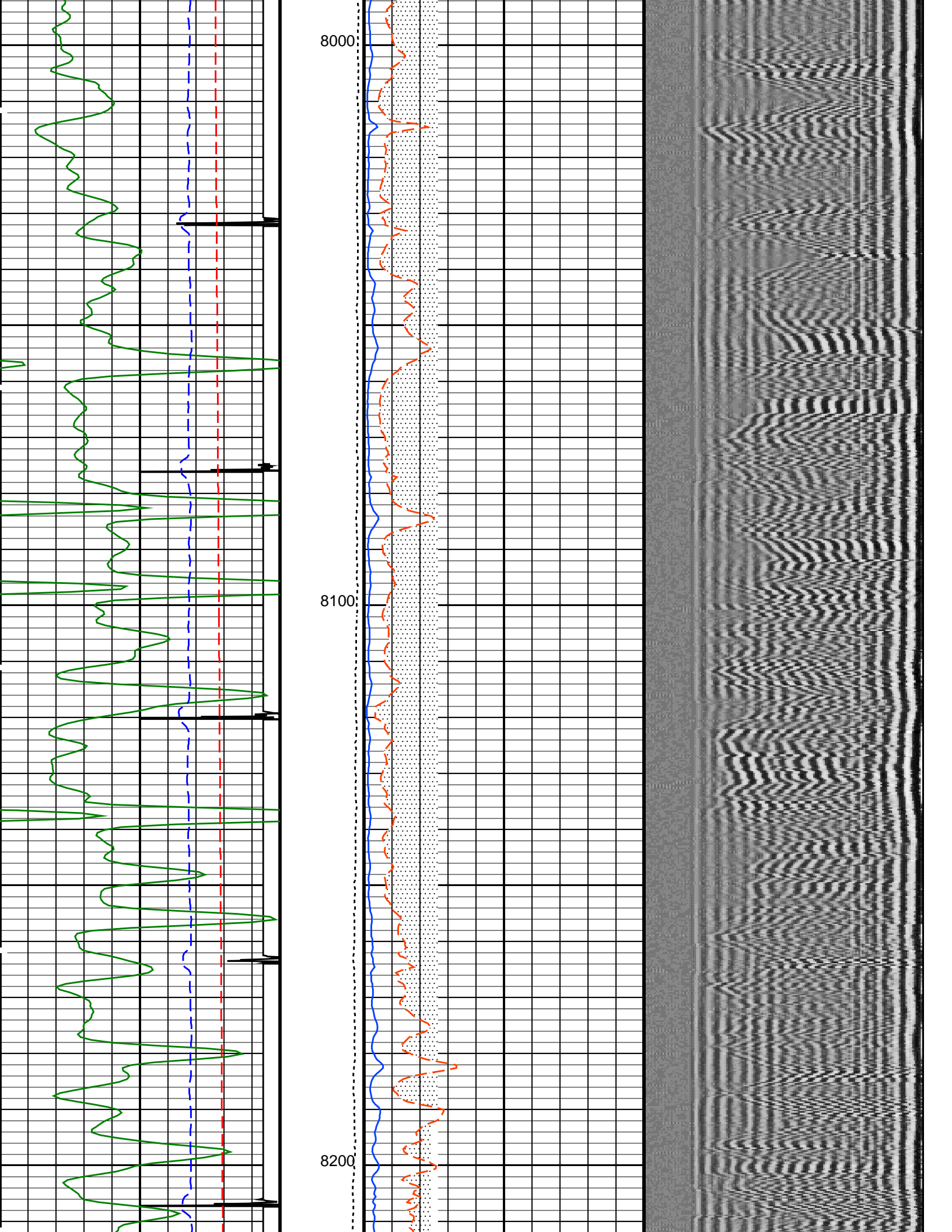


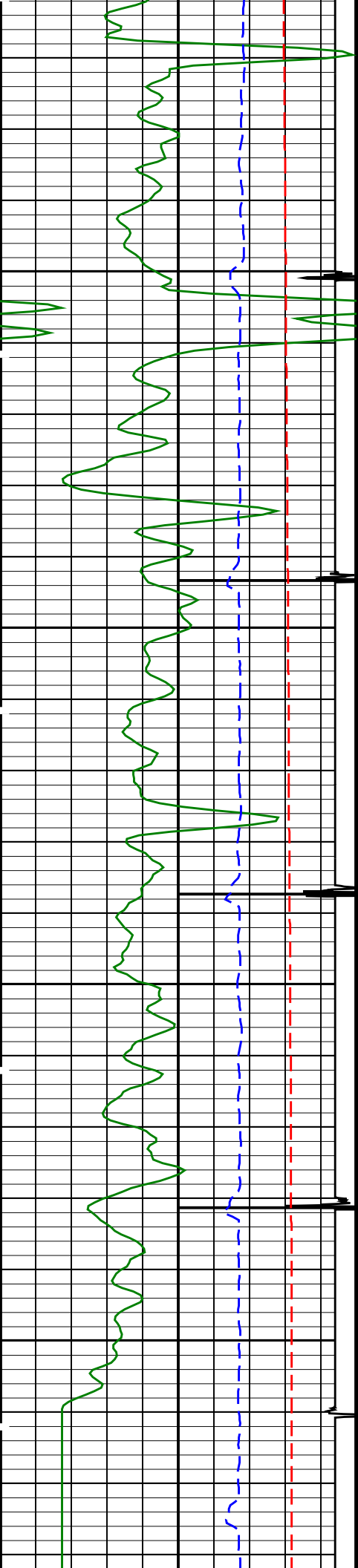


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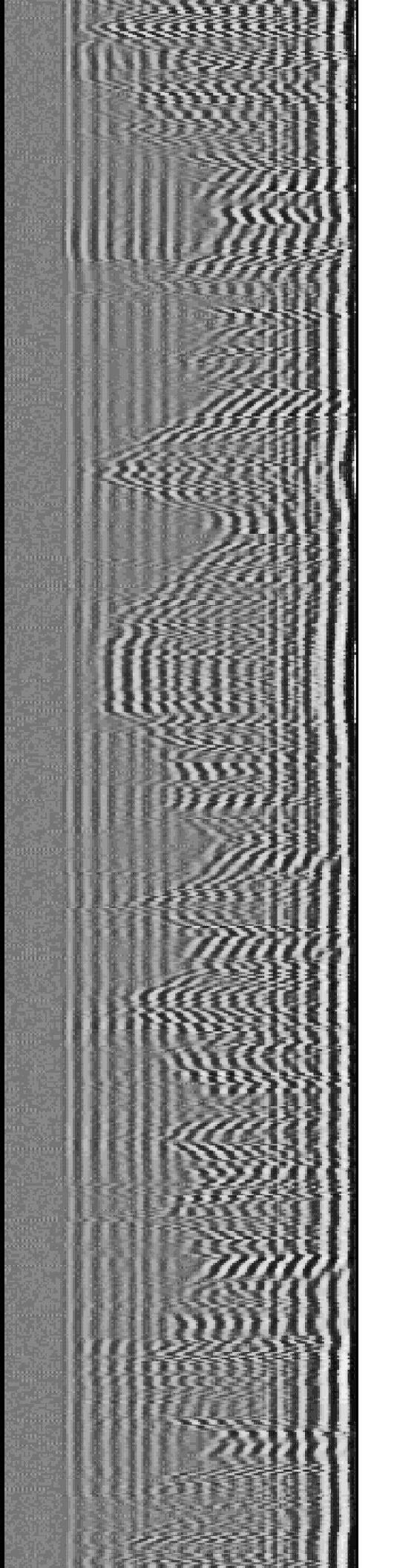
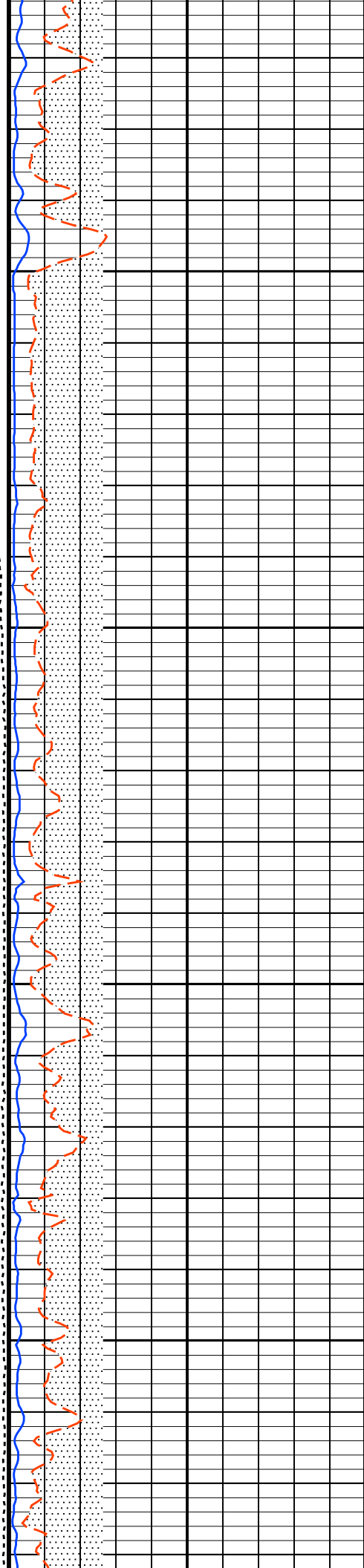


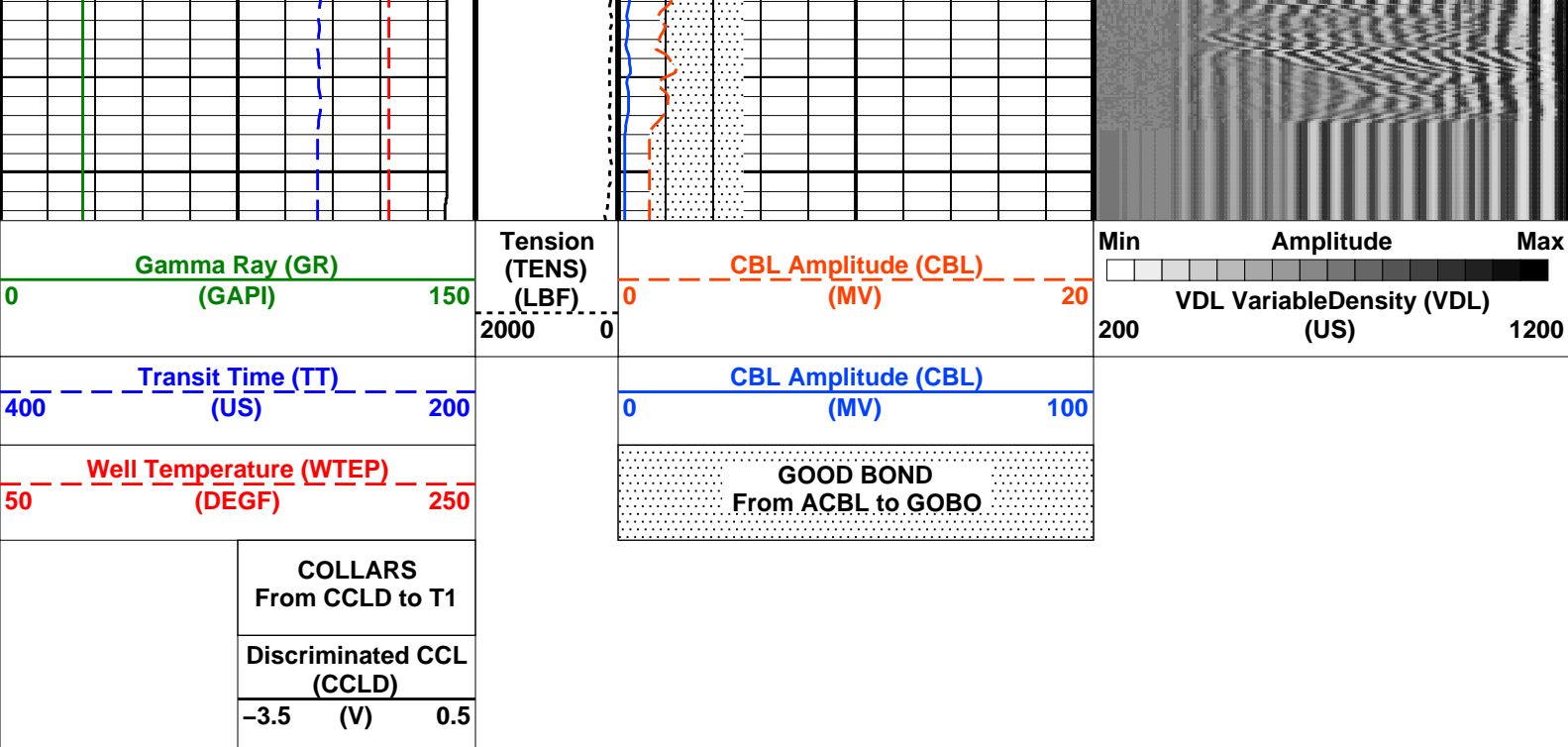




8300

8400





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
System and Miscellaneous			
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	2.3	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	–50000	FT

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 28-May-2013 12:47

OP System Version: 19C2-270

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

Input DLIS Files

DEFAULT SCMT_RST_PSP_004LUP FN:3 PRODUCER 28-May-2013 10:56 8452.5 FT 3243.6 FT

Output DLIS Files

DEFAULT SCMT_RST_PSP_005PUP FN:4 PRODUCER 28-May-2013 12:47

Schlumberger

REPEAT PASS

MAXIS Field Log

Company: Cascade Petroleum LLC

Well: Monks A11-9S-56W-0

Output DLIS Files

DEFAULT SCMT_RST_PSP_003LUP FN:2 PRODUCER 28-May-2013 09:46 7130.5 FT 6804.7 FT

OP System Version: 19C2-270

SCMT-CB 19C2-270 RST-C 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

CASING PRESSURE 0 PSI

Well Temperature (WTEP)
(DEGF) 50 250

Transit Time (TT)
(US) 400 200

Gamma Ray (GR)
(GAPI) 0 150

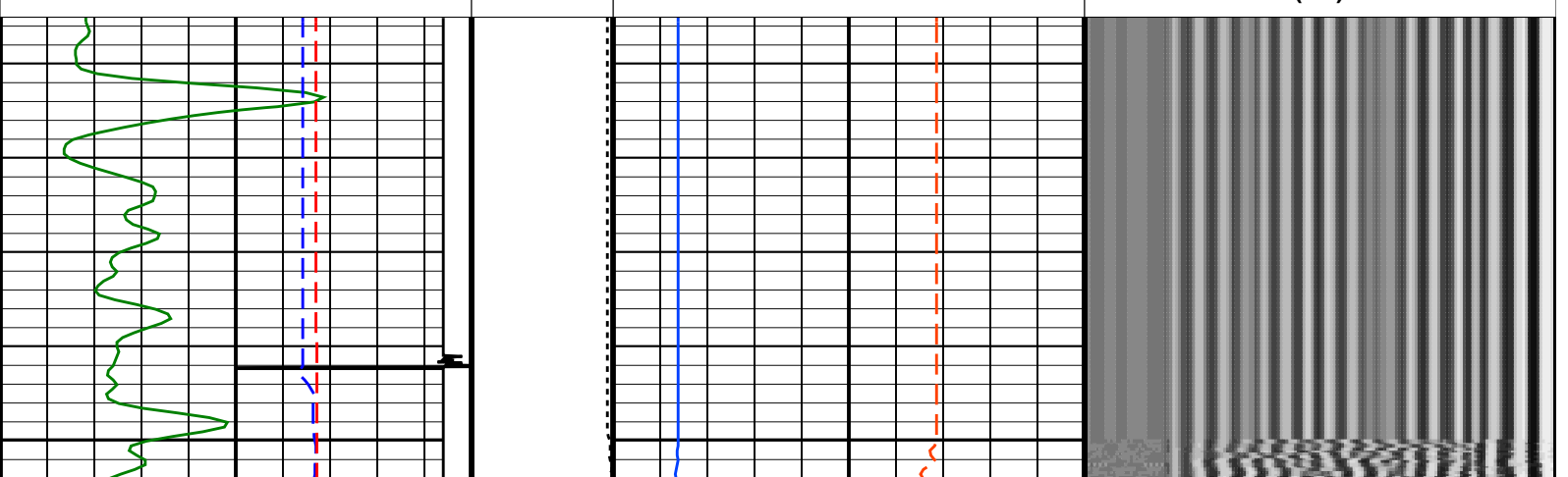
GOOD BOND
From ACBL to GOBO

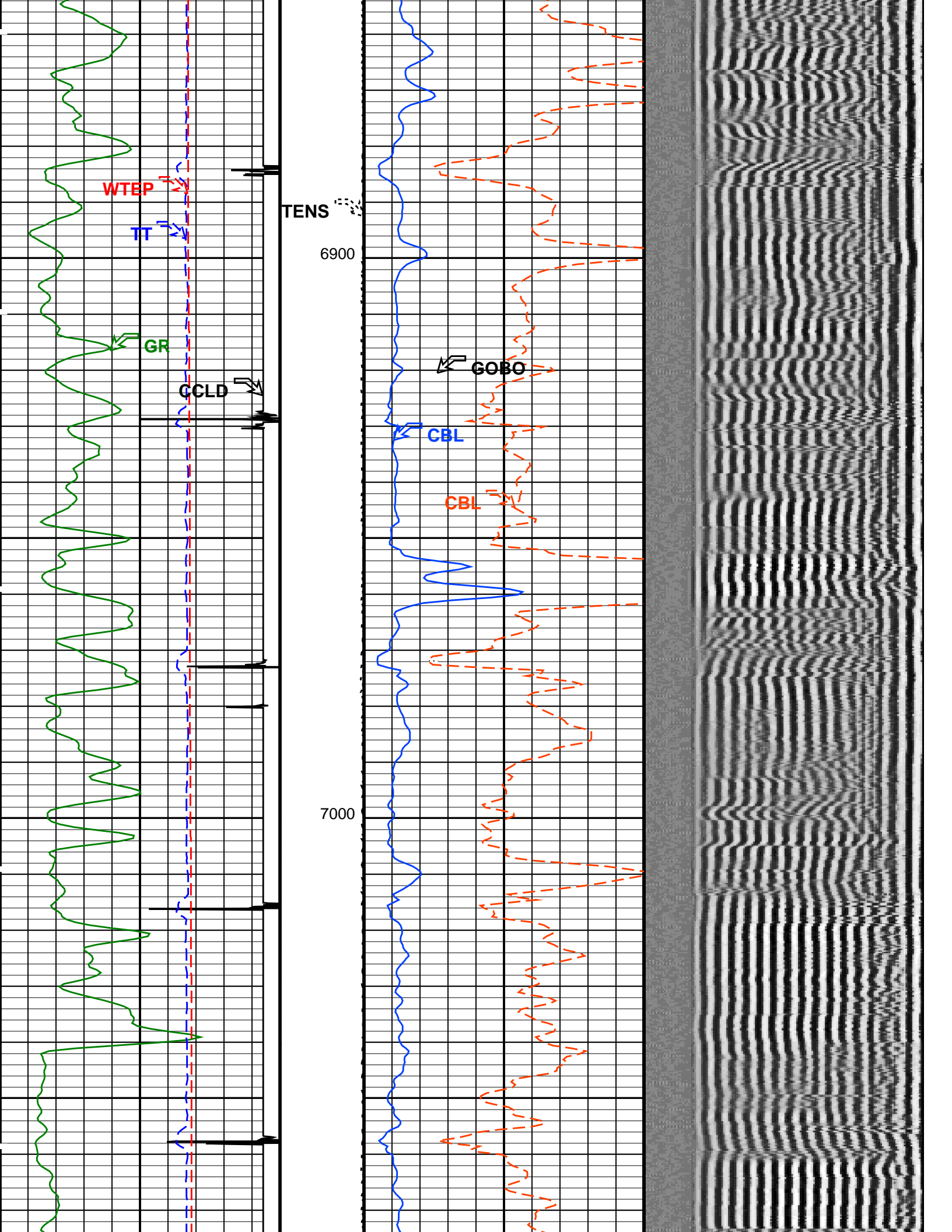
CBL Amplitude (CBL)
(MV) 0 100

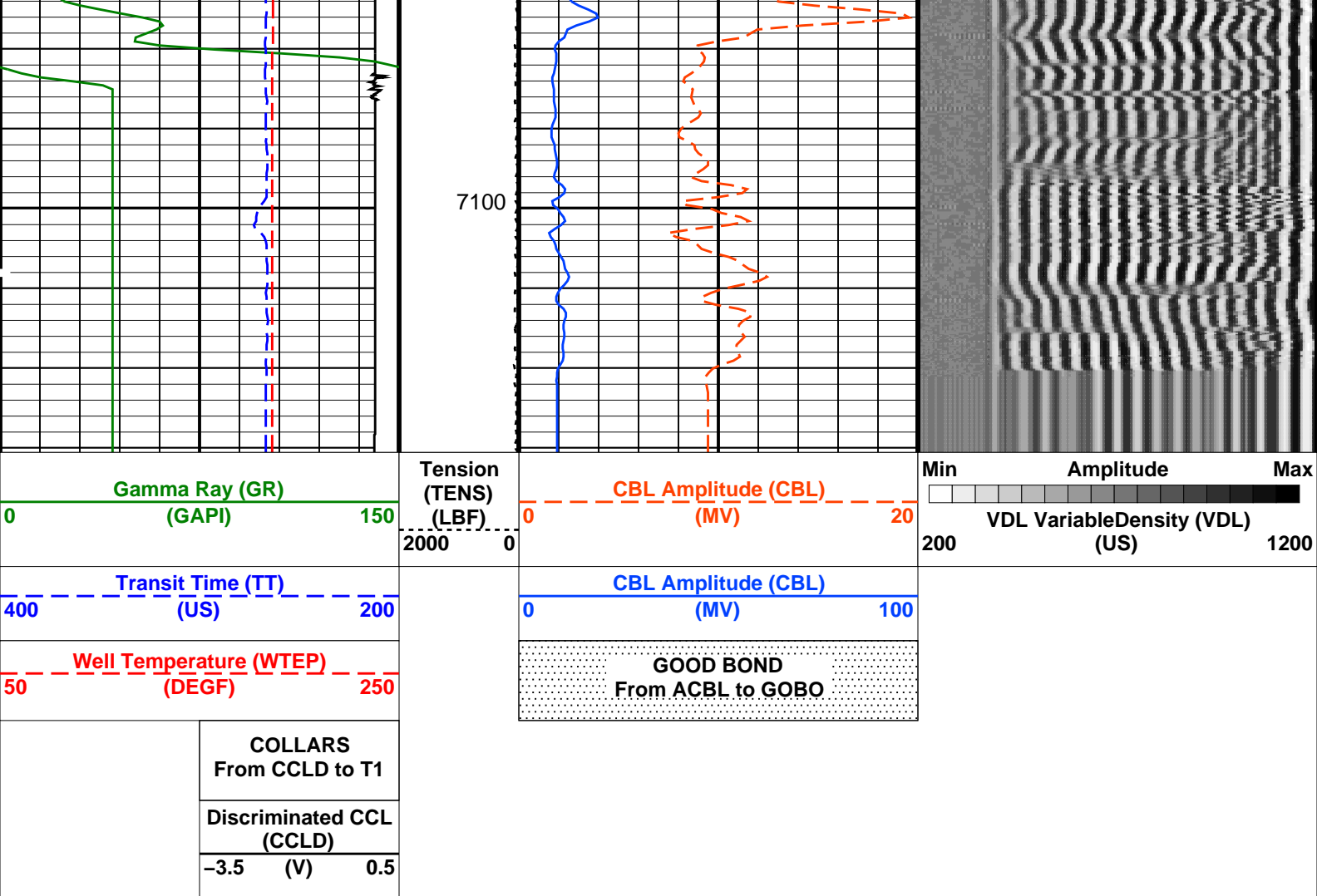
Tension
(TENS)
(LBF) 2000 0

CBL Amplitude (CBL)
(MV) 0 20

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







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	1	
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	13.848	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
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	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	17.00	LB/F

CWEL	Casing Weight	17.00	LB/ft
DFD	Drilling Fluid Density	8.40	LB/G
TD	Total Depth	-50000	FT
Format: CBL_VDL	Vertical Scale: 5" per 100'	Graphics File Created: 28-May-2013 09:46	
OP System Version: 19C2-270			
SCMT-CB	19C2-270	RST-C	19C2-270
PSPT	19C2-270		
Output DLIS Files			
DEFAULT	SCMT_RST_PSP_003LUP	FN:2	PRODUCER 28-May-2013 09:46
Company: Cascade Petroleum LLC			
Schlumberger			
Well: Monks A11-9S-56W-01			
Field: Wildcat			
County: Lincoln			
State: Colorado			
CEMENT BOND			
GAMMA RAY			
CASING COLLAR LOG			