

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8503C-34 (E34 496)

Field: STORY GULCH

County: GARFIELD

State: COLORADO

SLIM CEMENT MAPPING LOG  
CCL – GAMMA RAY – TEMPERATUR

County:	GARFIELD			
Field:	STORY GULCH			
Location:	SHL: 2181 FNL & 999 FWL			
Well:	SG 8503C-34 (E34 496)			
Company:	ENCANA OIL & GAS (USA) INC			
LOCATION		SHL: 2181 FNL & 999 FWL		Elev.: K.B. 8353.00 ft
		BHL: 577 FNL & 1339 FWL		G.L. 8323.00 ft
				D.F. 8352.00 ft
Permanent Datum:		GROUND LEVEL		Elev.: 8323.00 ft
Log Measured From:		KELLY BUSHING		30.00 ft above Perm. Datum
Drilling Measured From:		KELLY BUSHING		
API Serial No.		Section 34	Township 4S	Range 96W
05-045-21914-000C				

	Run 1	Run 2	Run 3
PVT DATA			
Oil Density			
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	18-Jan-2014			
Run Number	1			
Depth Driller	11745 ft			
Schlumberger Depth	11684 ft			
Bottom Log Interval	11675 ft			
Top Log Interval	74 ft			
Casing Fluid Type	FRESH WATER			
Salinity				
Density	8.4 lbm/gal			
Fluid Level	74 ft			
BIT/CASING/TUBING STRING				
Bit Size	7.875 in			
From	9840 ft			
To	11745 ft			
Casing/Tubing Size	4.500 in			
Weight	11.6 lbm/ft			
Grade				
From	30 ft			
To	11725 ft			
Maximum Recorded Temperatures	282 degF			
Logger On Bottom	18-Jan-2014	Time	8:00	
Unit Number	Location	417	VERNAL	
Recorded By	JASON BARRY			
Witnessed By	SCOTT PITT			

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: 7-JAN-2014 22:46:59

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZA-XXS
Serial Number:	600807	Serial Number:	1157	Serial Number:	111268
Calibration Date:	6/27/2013	Calibration Date:	9/24/2013	Length:	16000 FT
Calibrator Serial Number:		Calibrator Serial Number:	100518		
Calibration Cable Type:	1-25P	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-3	Calibration RMS:	15	Rig Type:	LAND
Wheel Correction 2:	-4	Calibration Peak Error:	31		

## 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

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

## DISCLAIMER

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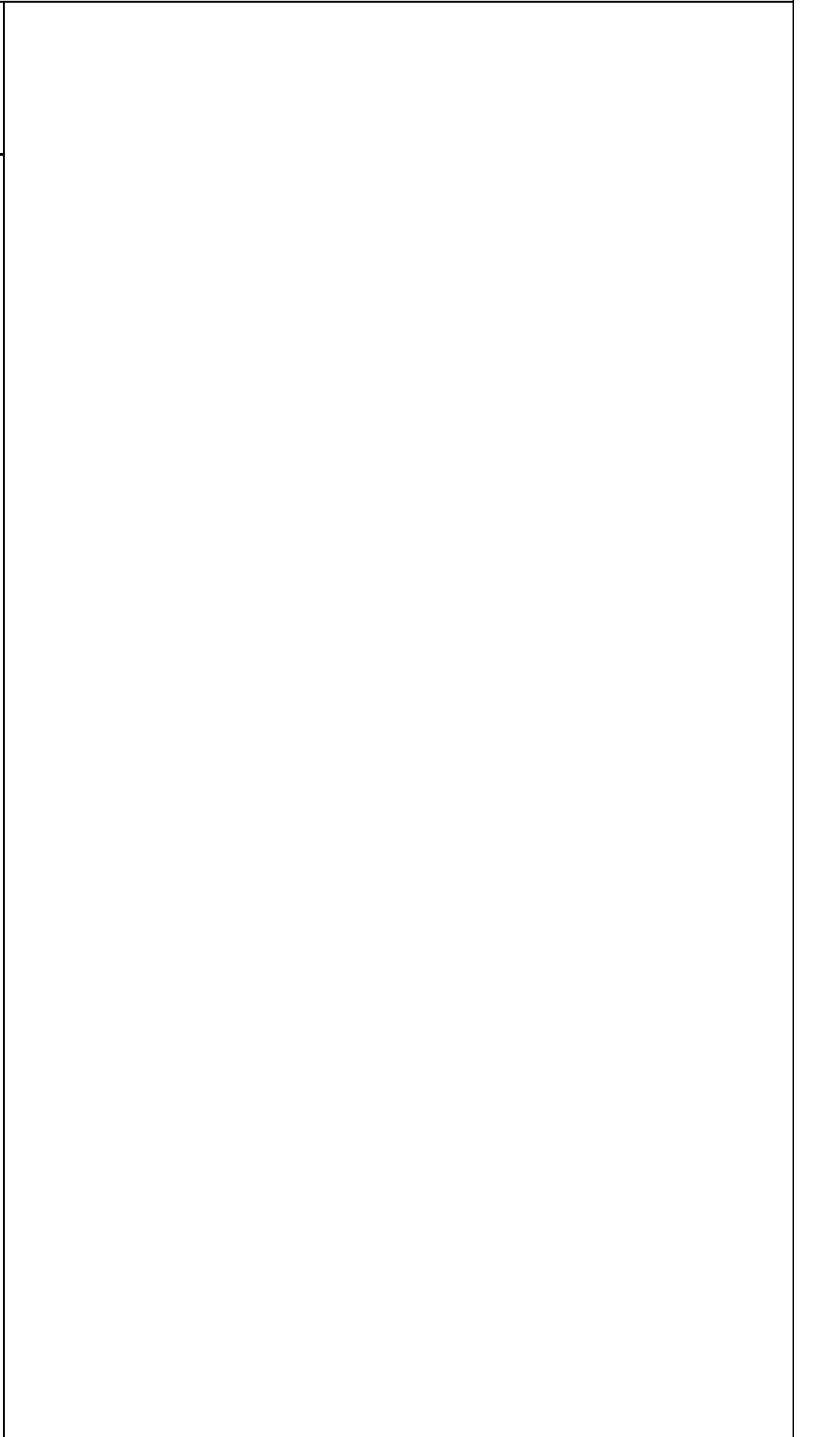
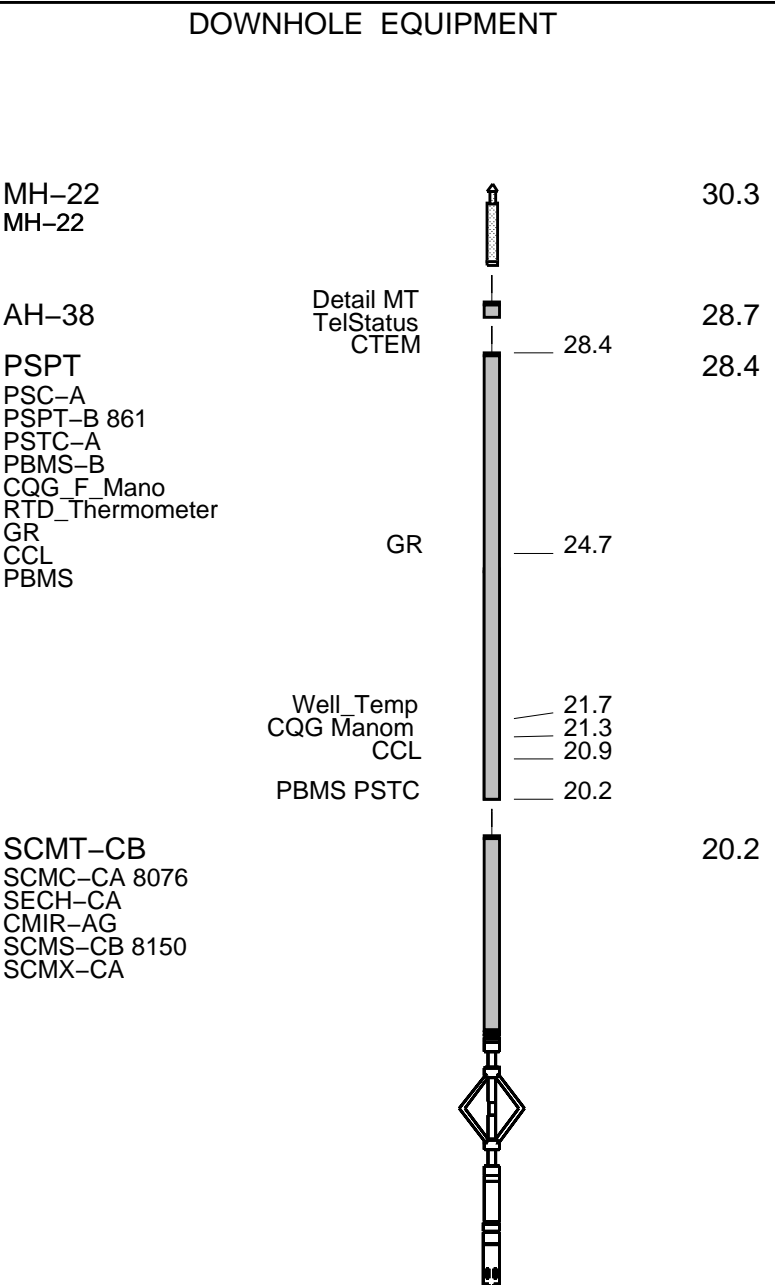
OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWNLOG	
TOOL RAN AS PER TOOL SKETCH	
ENTRANCE TIME: 07:00	
TIME AT BOTTOM: 8:00	
EXIT TIME: 11:15	

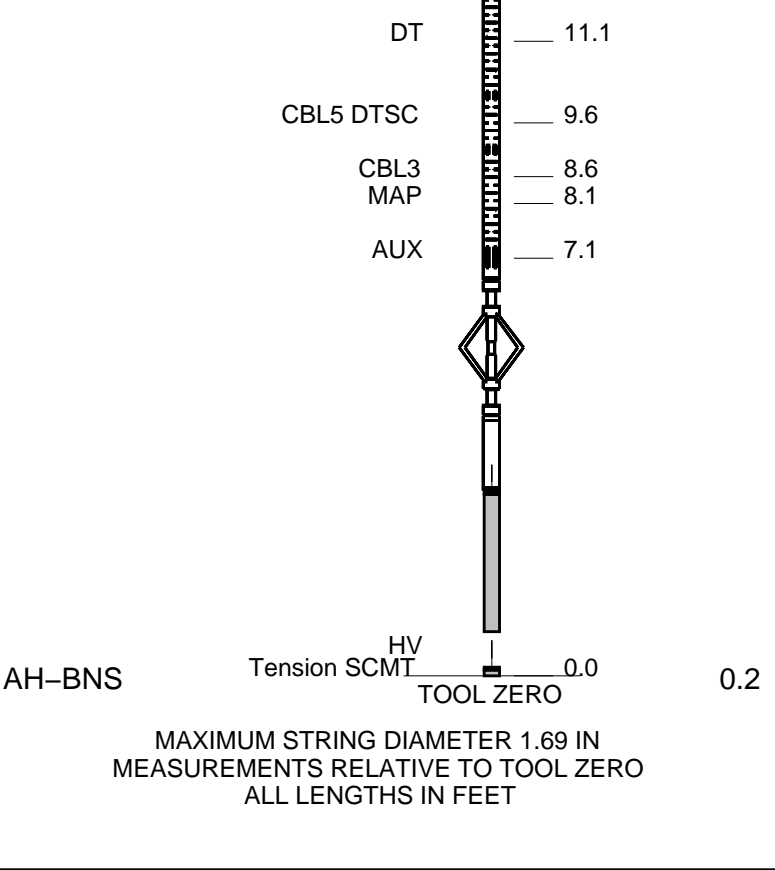
MAX RECORDED TEMPERATURE: 282 DEGF	
MAX RECORDED PRESSURE: 4846 PSIA	
SHORT JOINTS: 7489 FT & 10206 FT	
MAIN PASS LOGGED UNDER 0 SURFACE PRESSURE	
EXPECTED CBL AMP IN FREE PIPE = 80 MV	
CREW: J BARRY, M MCCOY, B CUPP, J ORTIZ, D MOWER	
THANK YOU FOR CHOOSING E&P WIRELINE, A SCHLUMBERGER COMPANY	

RUN 1			RUN 2		
SERVICE ORDER #:	CT1E-00035		SERVICE ORDER #:		
PROGRAM VERSION:	19C2-270		PROGRAM VERSION:		
FLUID LEVEL:	74 ft		FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

**SURFACE EQUIPMENT**  
WITM-A  
PSC\_16MHZ





# MAIN PASS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC Well: SG 8503C-34 (E34 496)

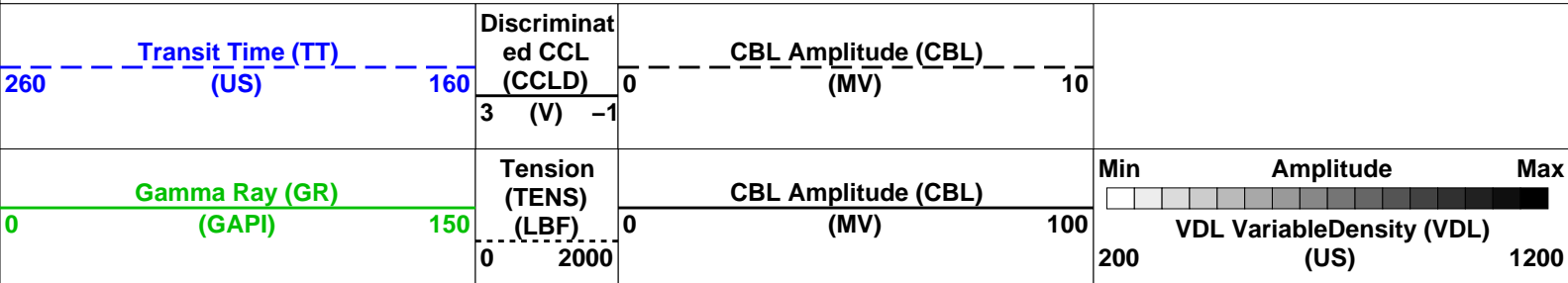
Input DLIS Files						
DEFAULT	Splice_SCMT_PSP_042CUP	FN:1	PRODUCER	18-Jan-2014 12:22	11690.0 FT	-9.2 FT

Output DLIS Files						
DEFAULT	SCMT_PSP_043PUP	FN:40	PRODUCER	18-Jan-2014 12:24	11696.0 FT	-31.0 FT

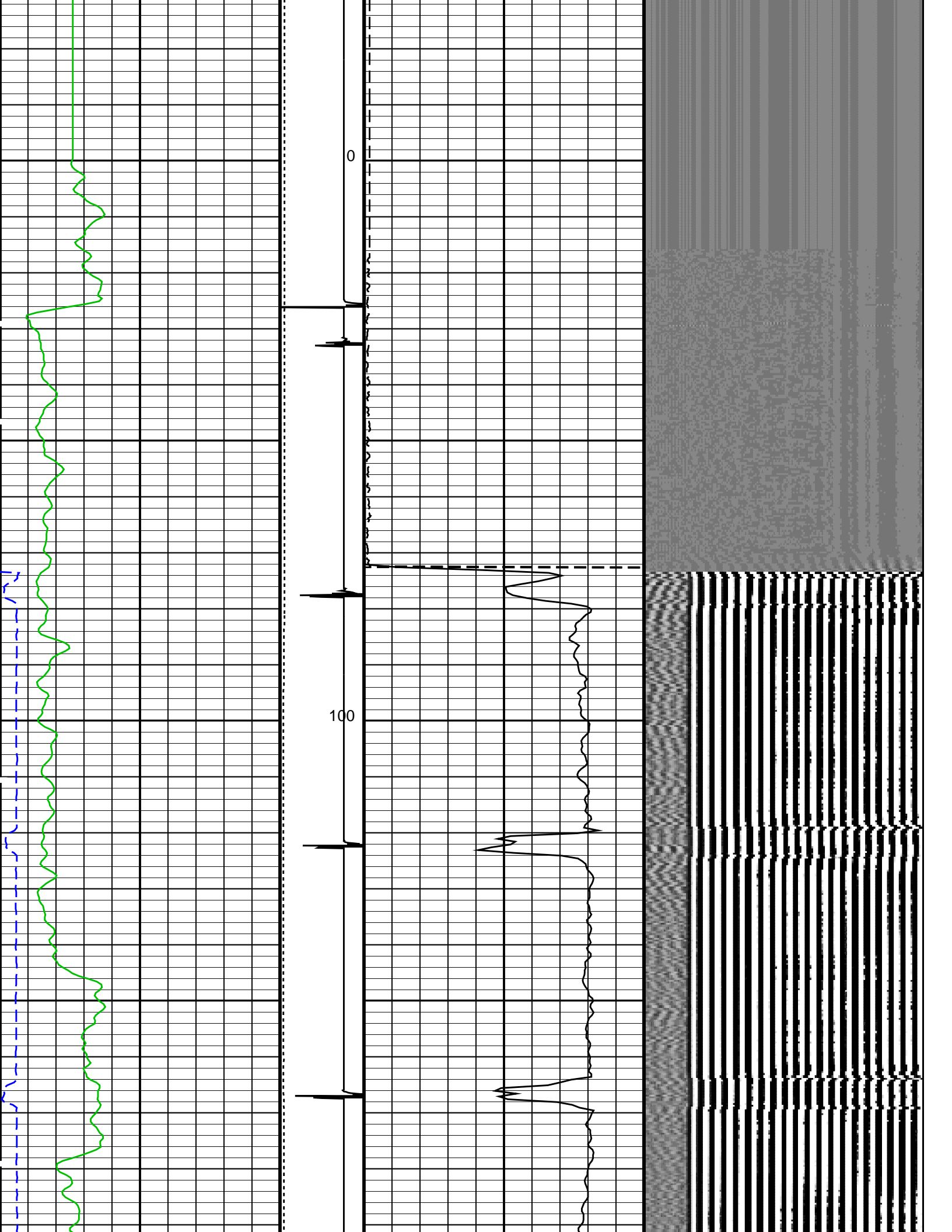
OP System Version: 19C2-270						
SCMT-CB	unofficial	PSPT	unofficial			

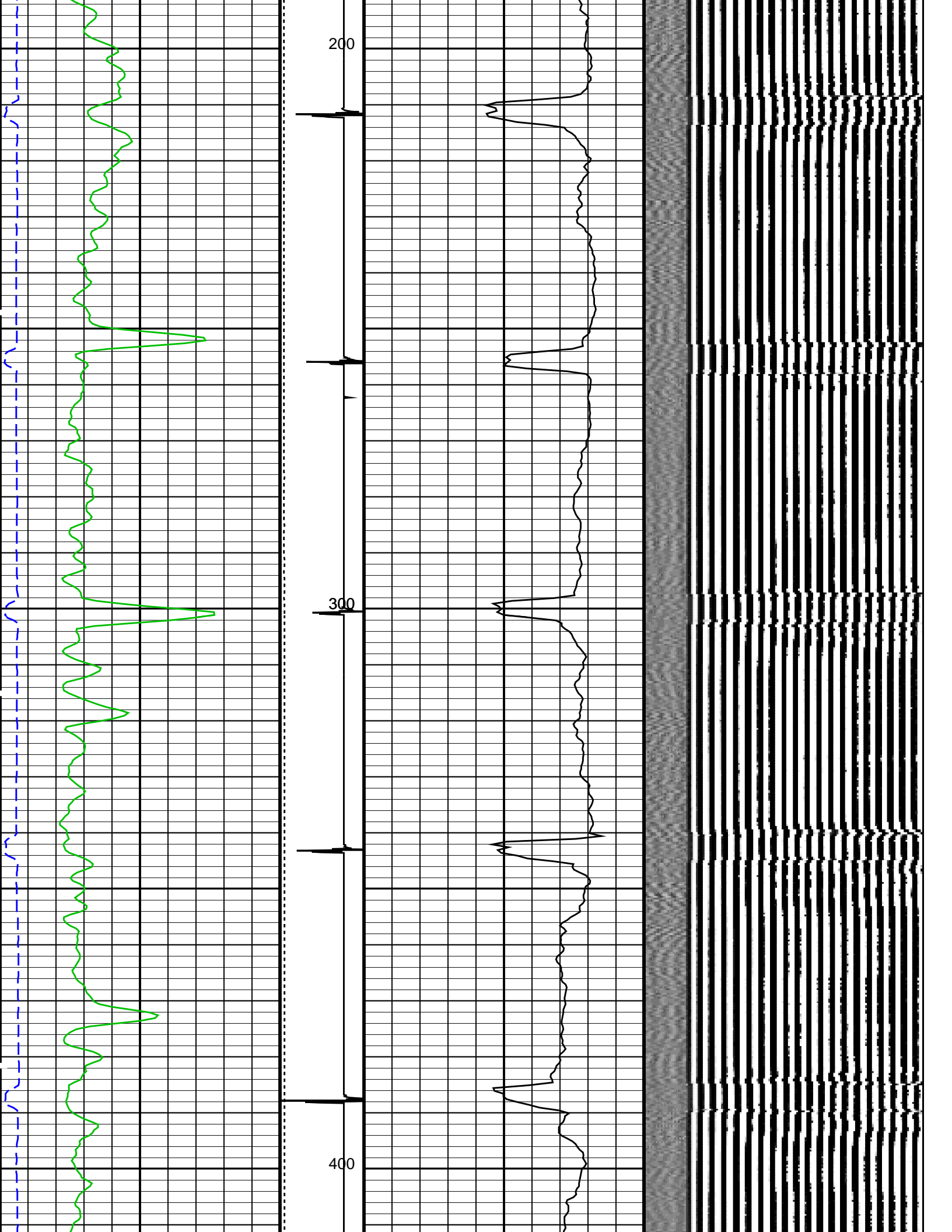
## PIP SUMMARY

☒ Time Mark Every 60 S

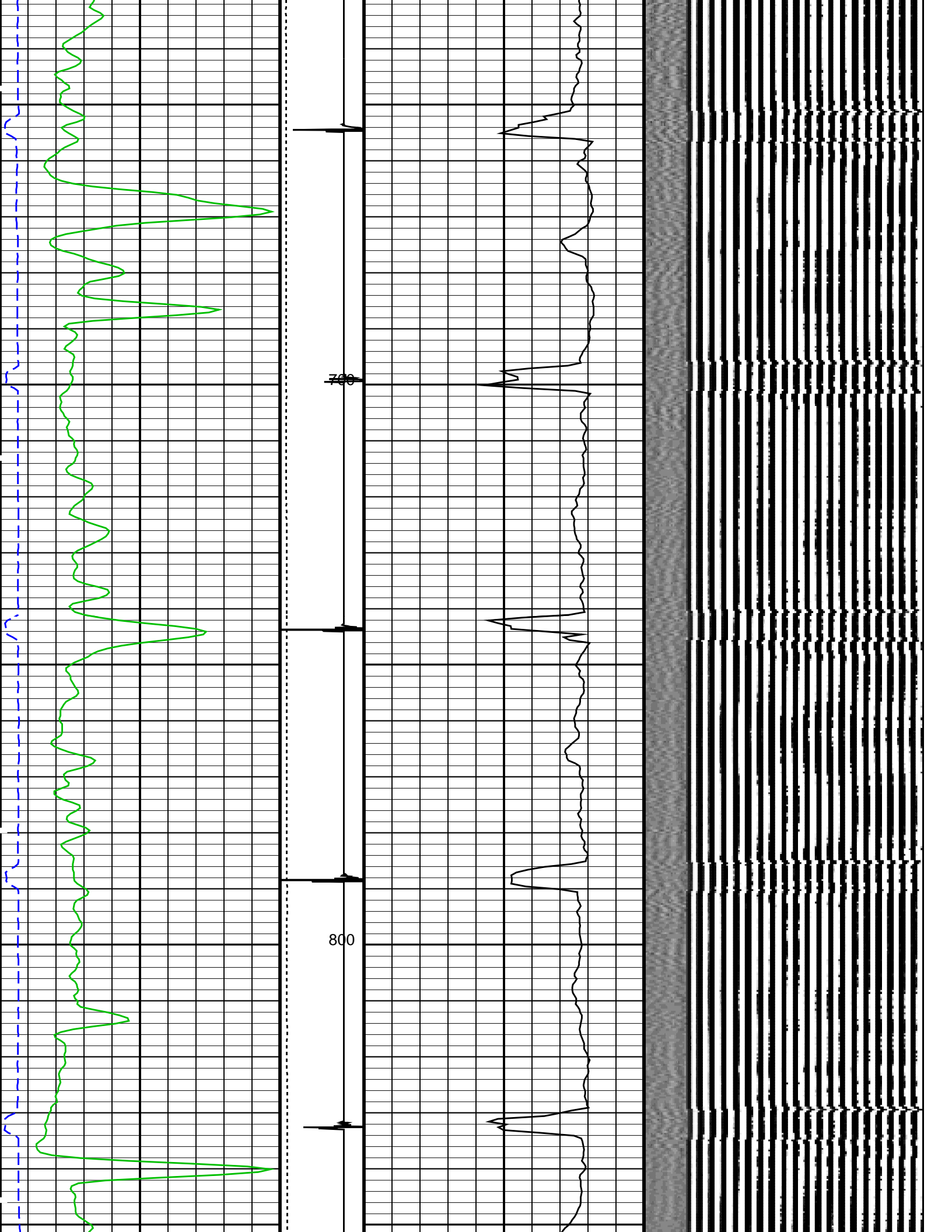


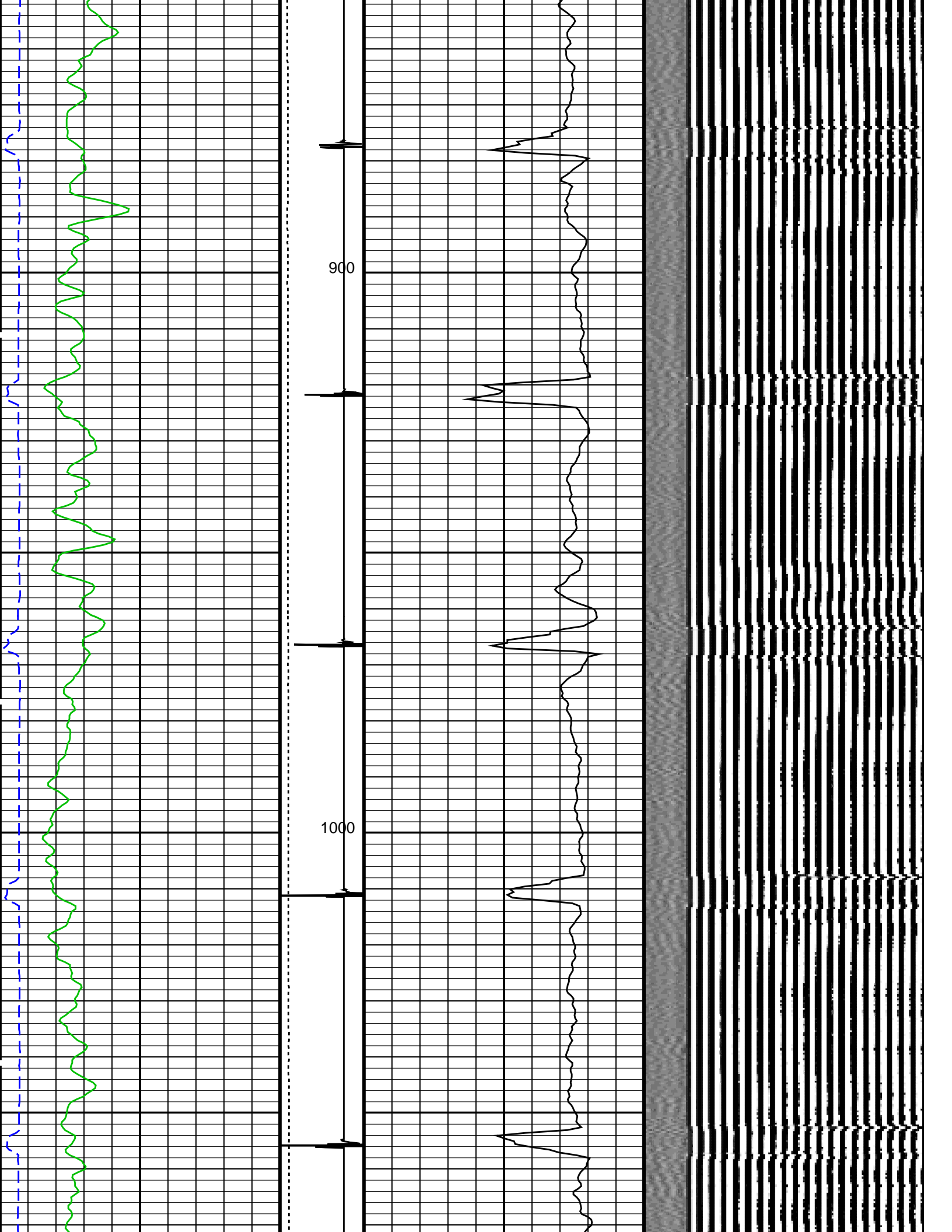


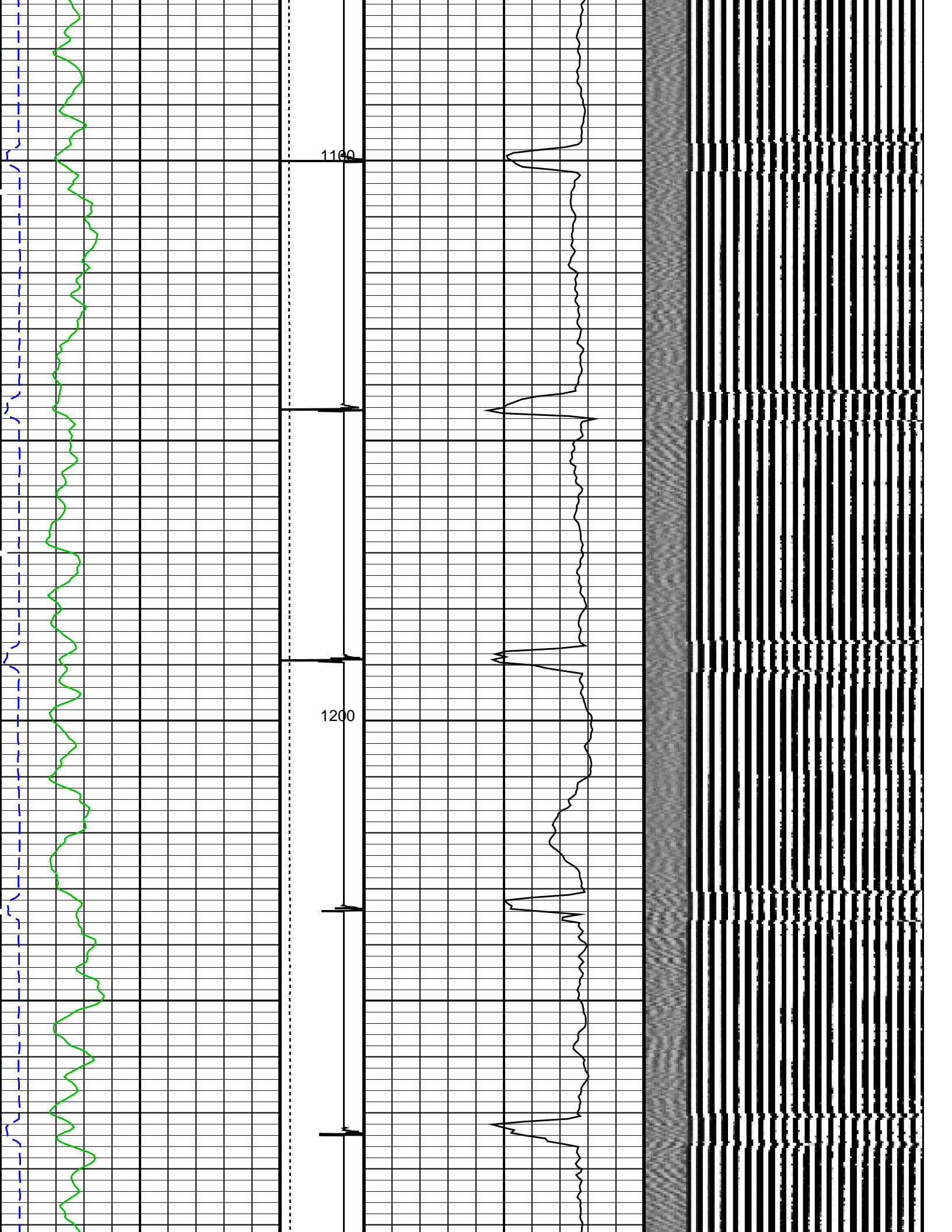




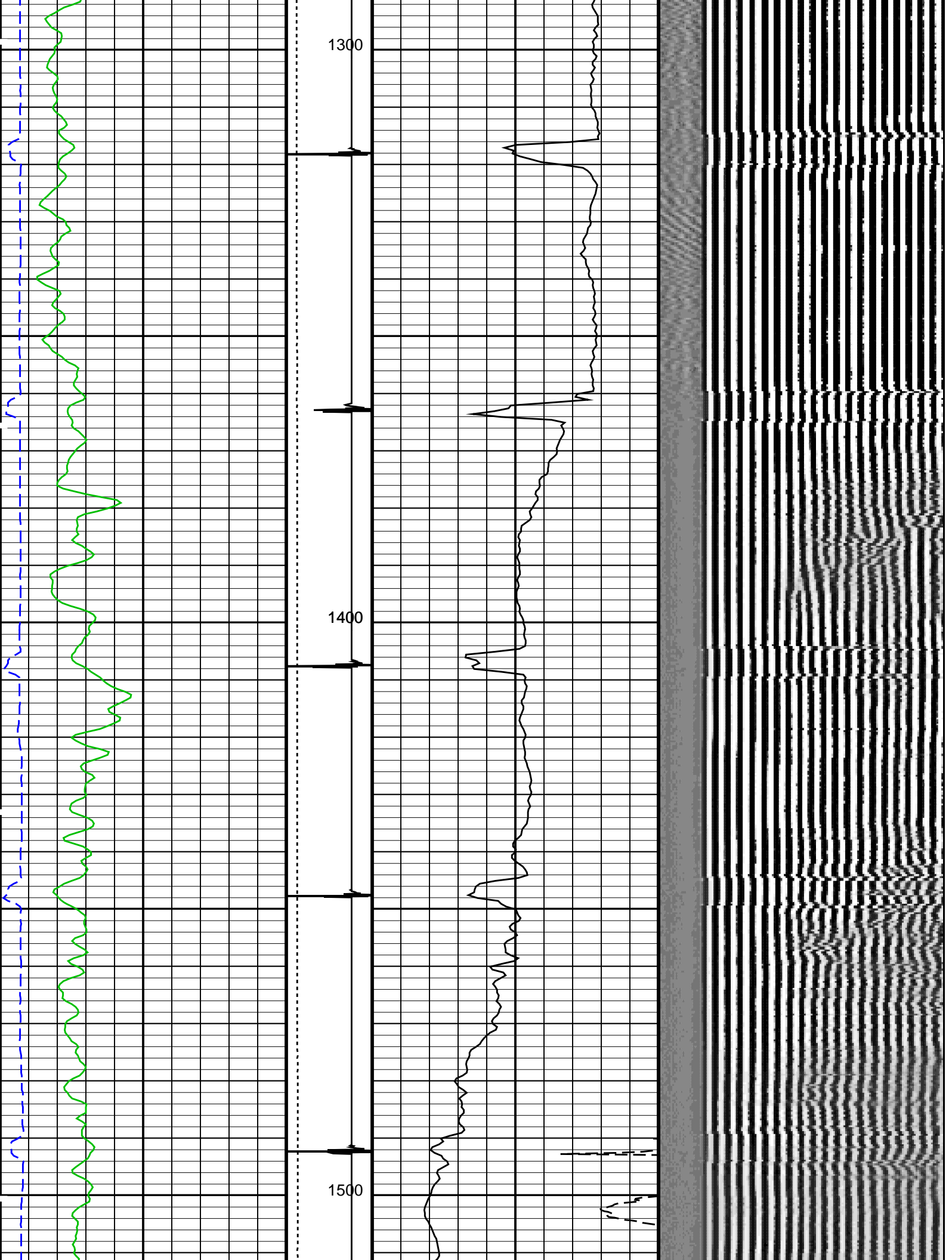


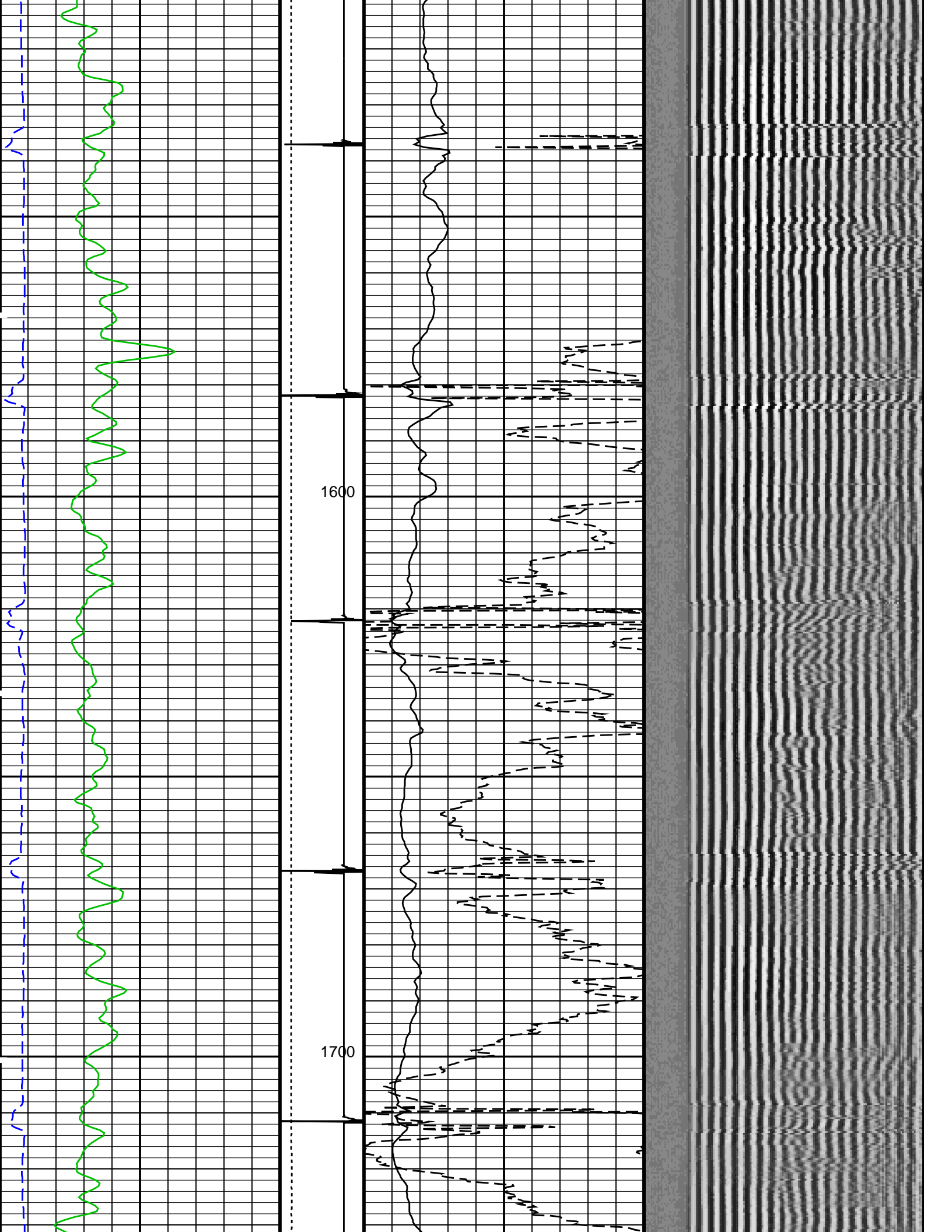




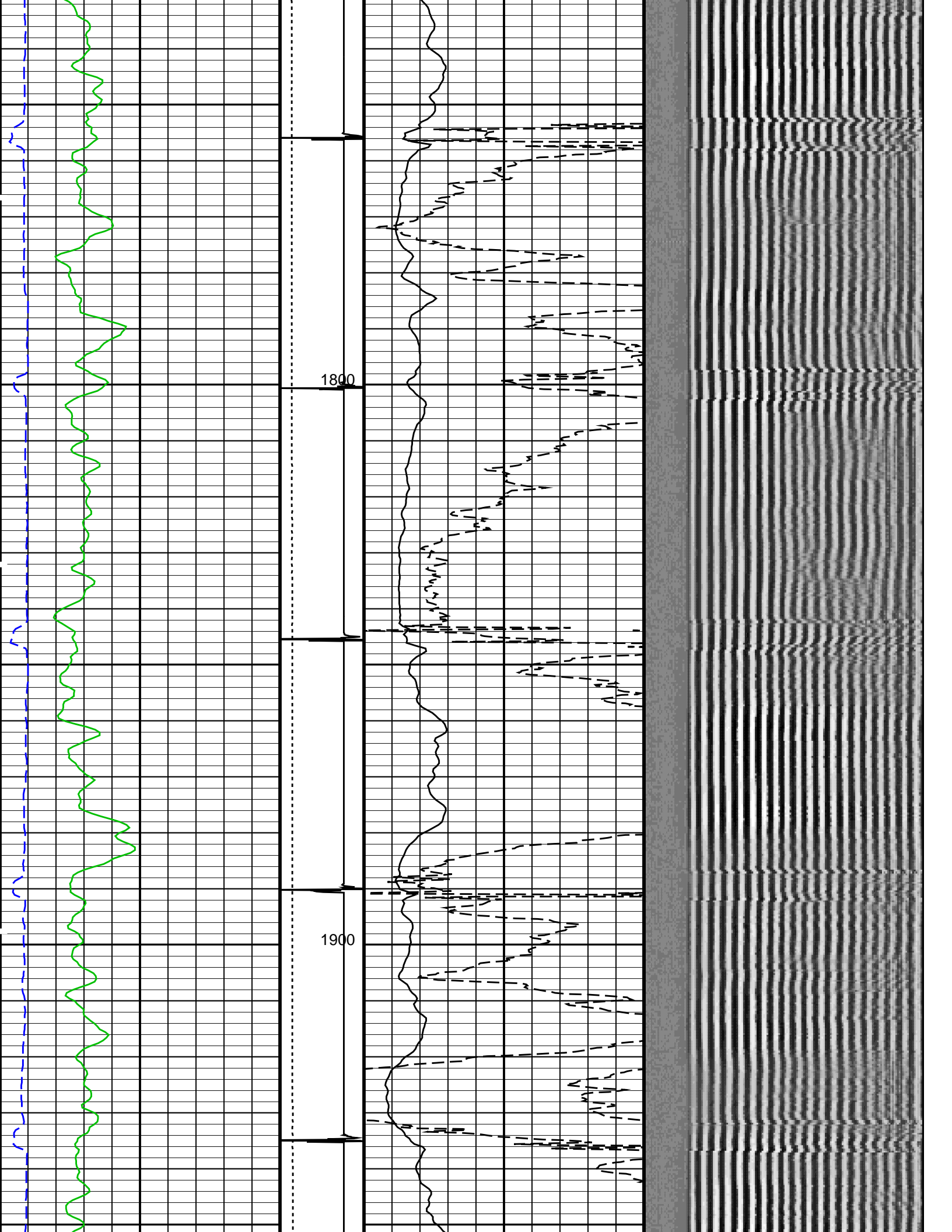


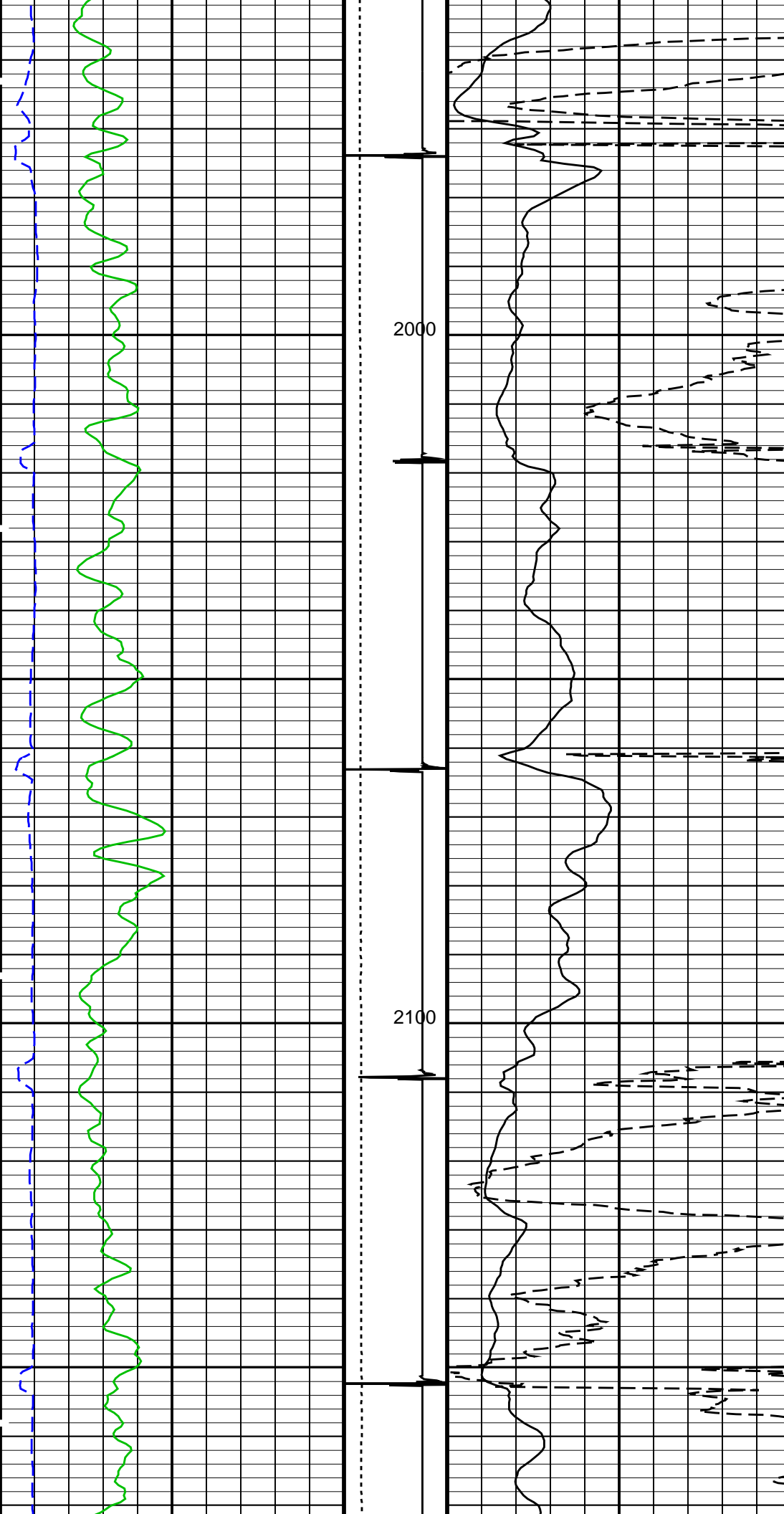


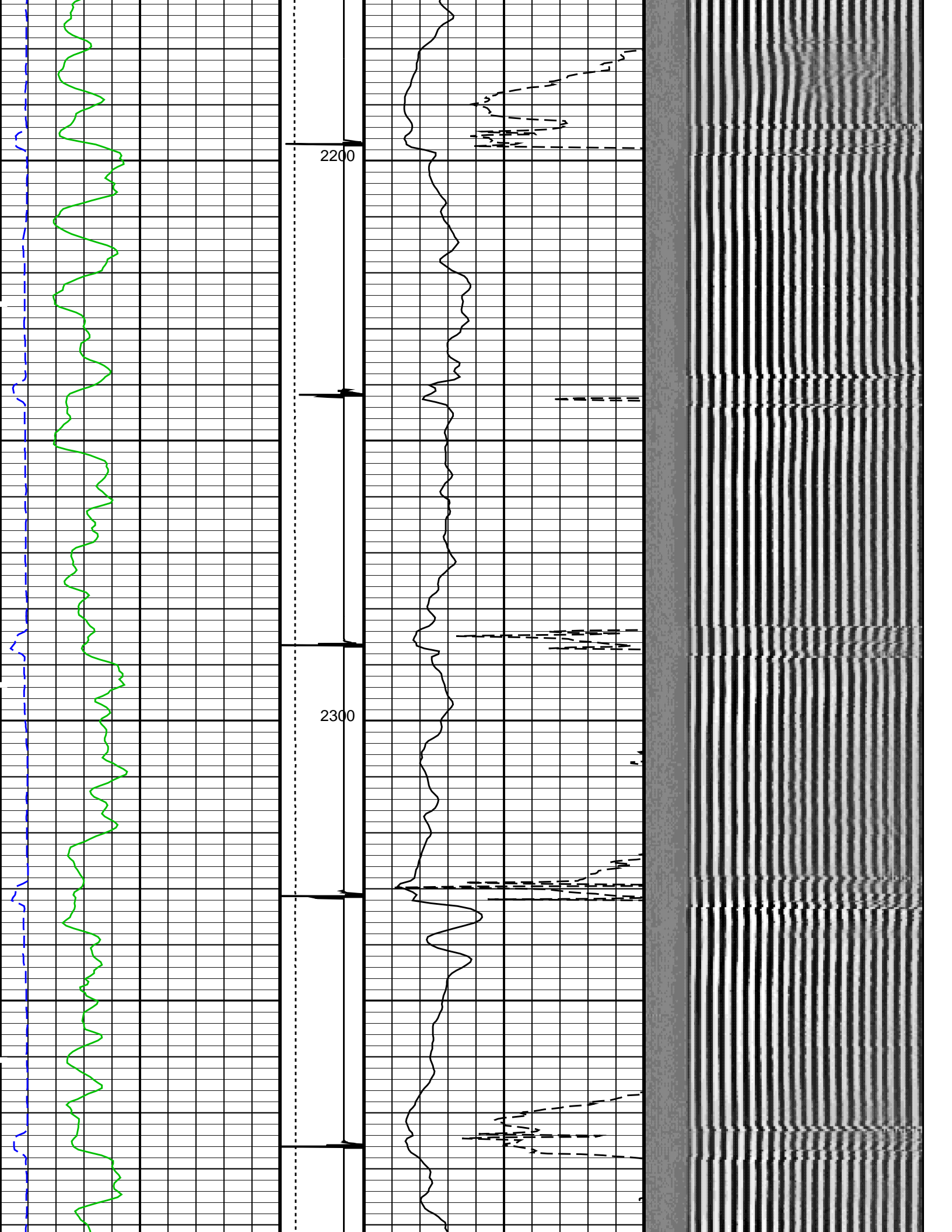


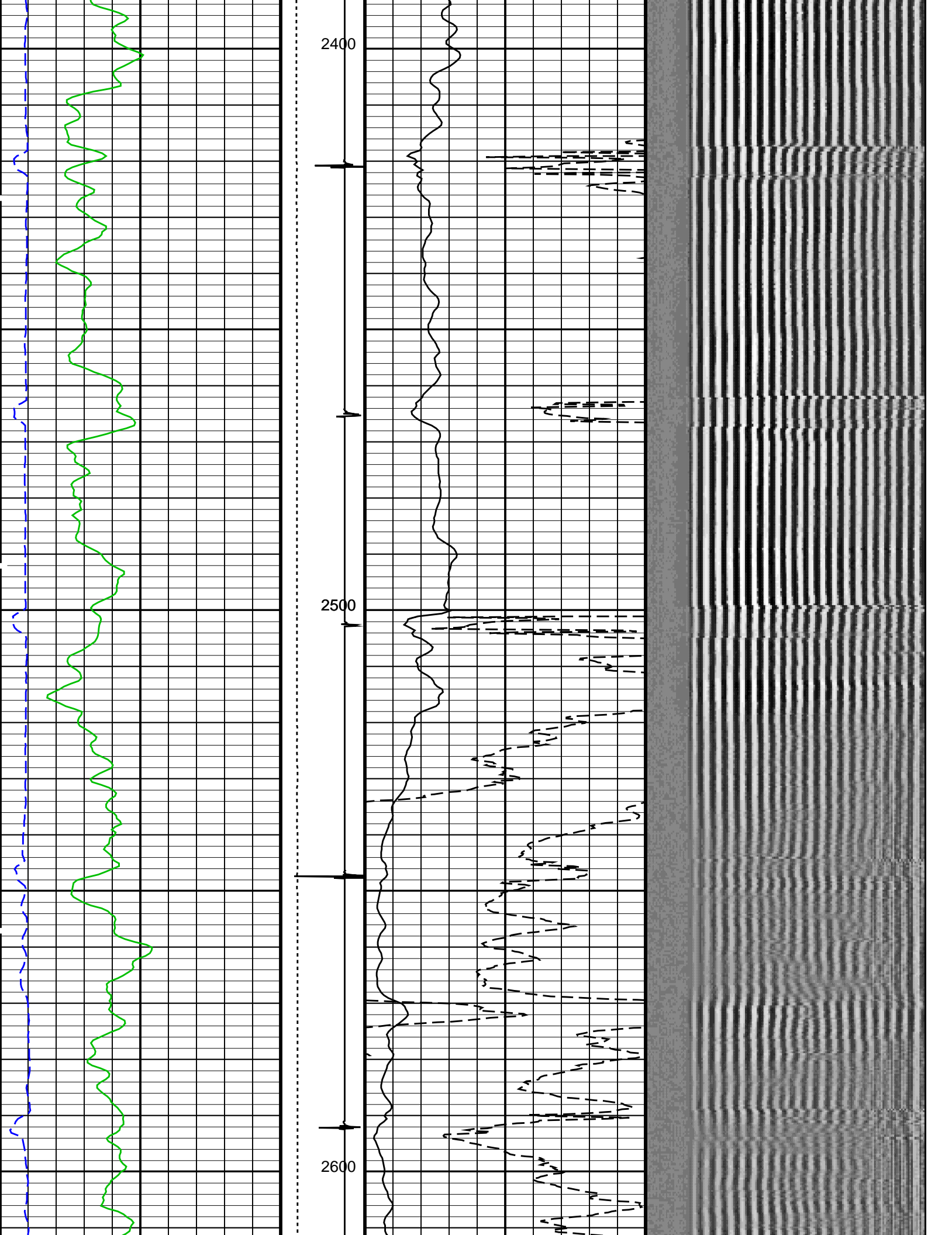




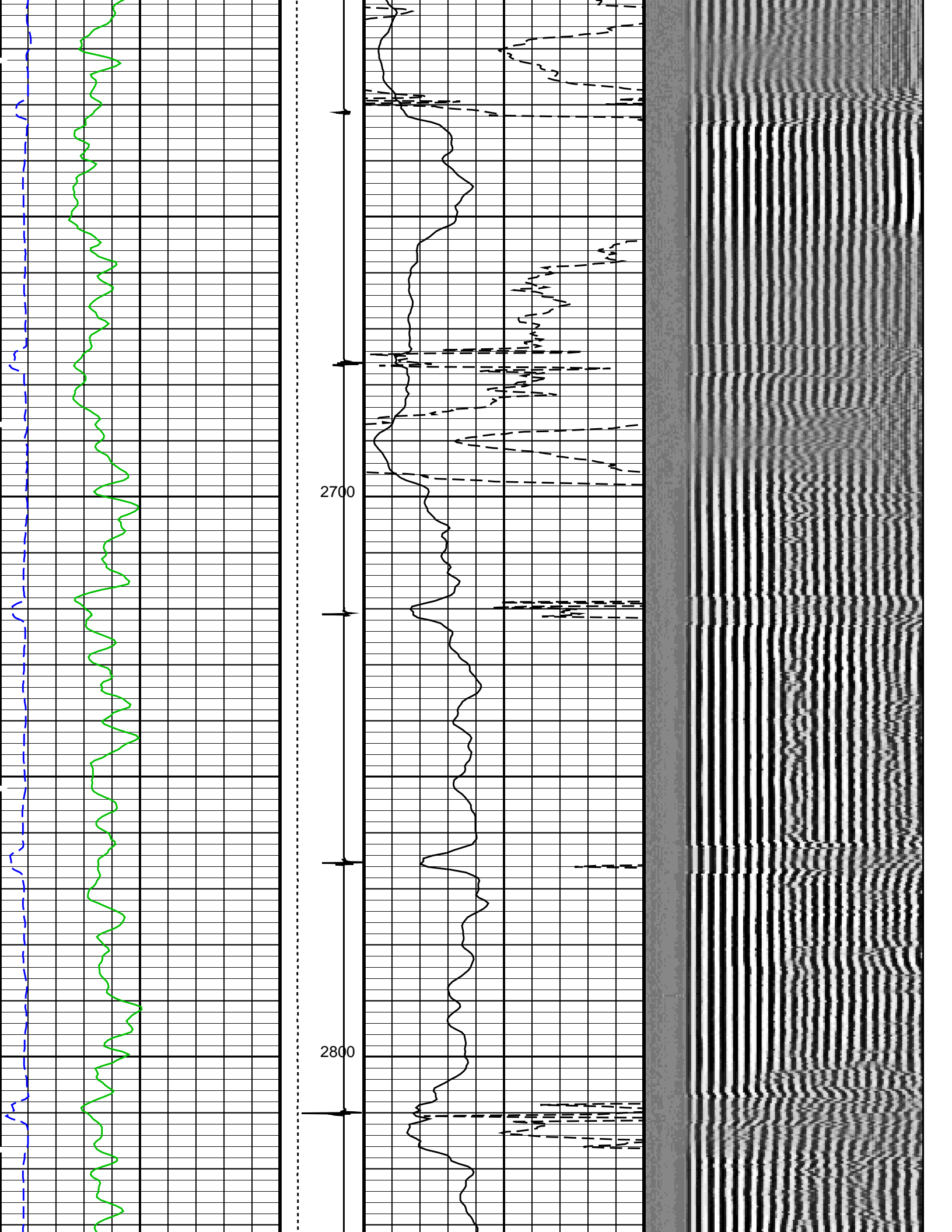


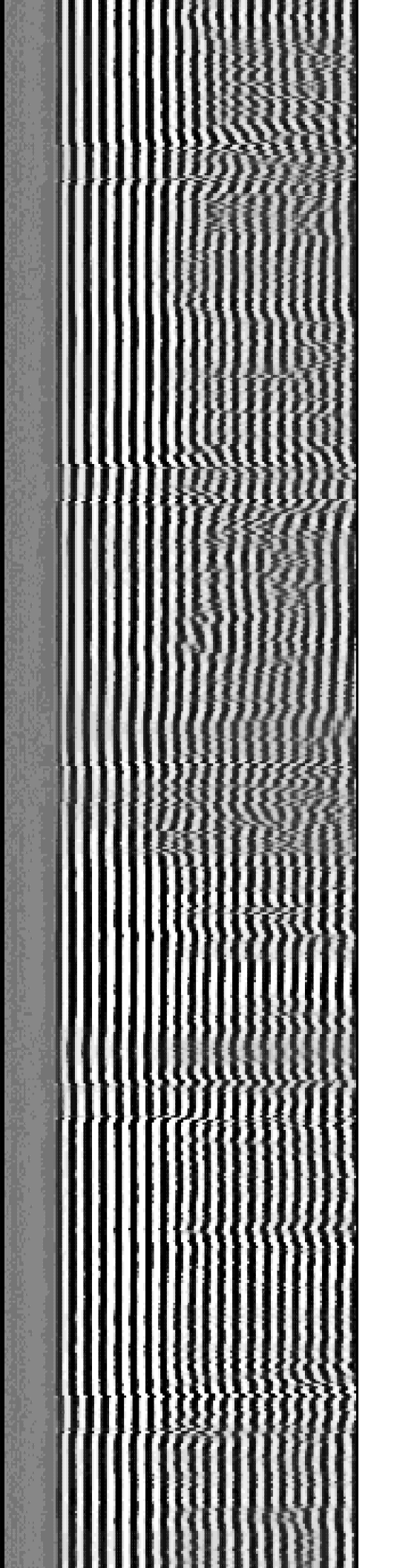
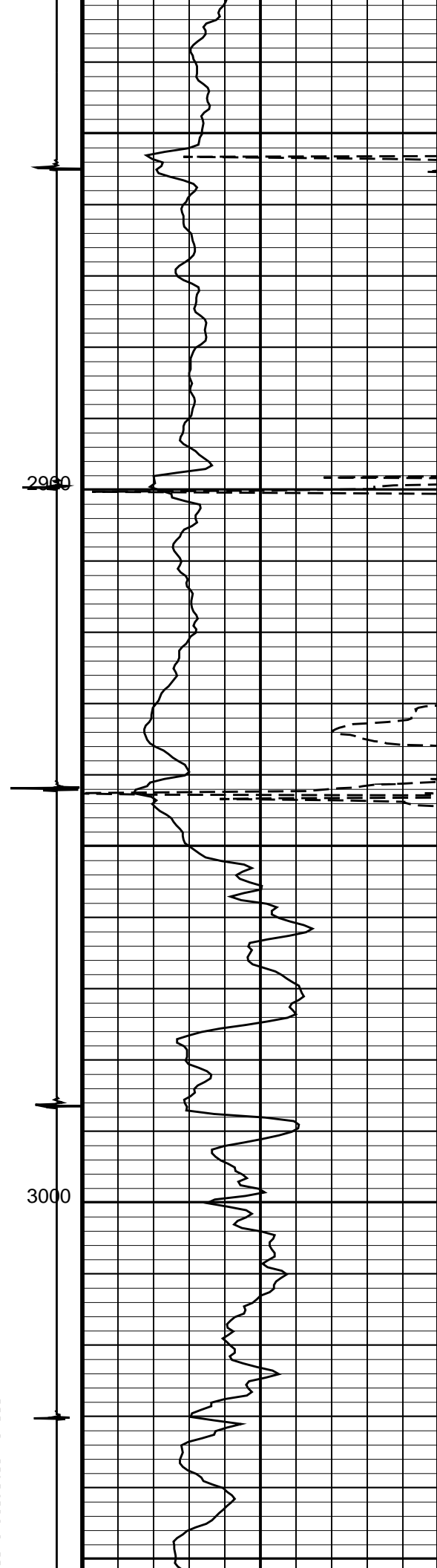
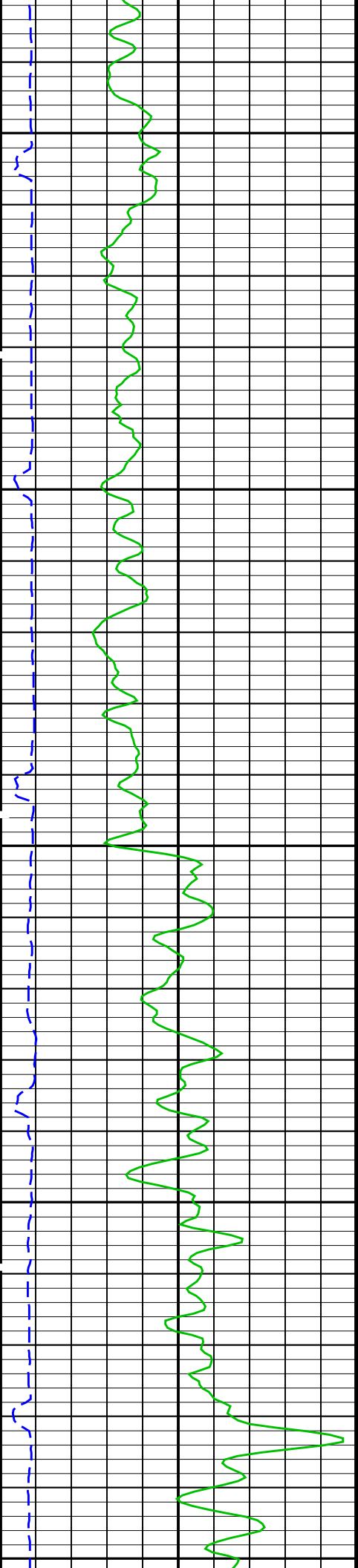


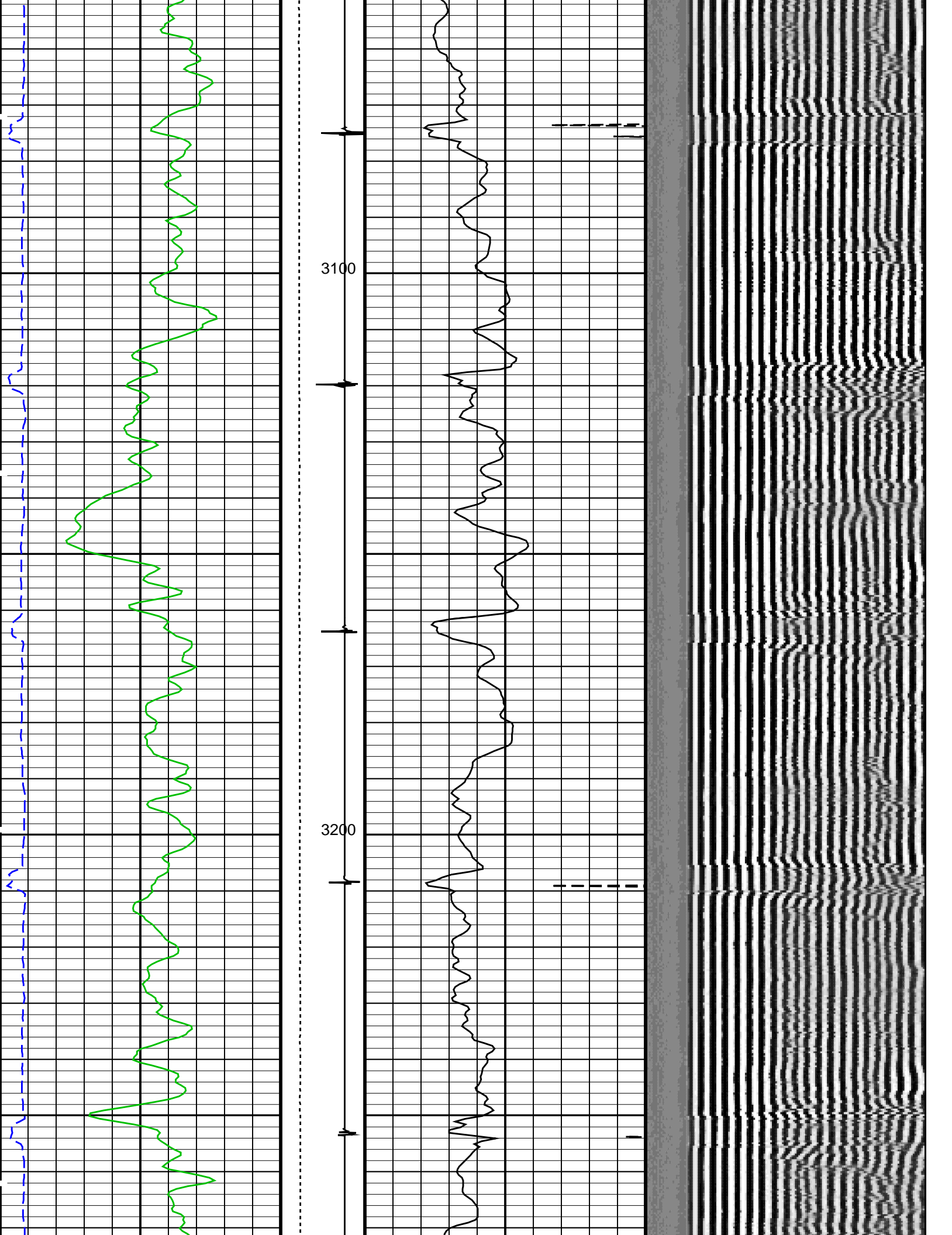


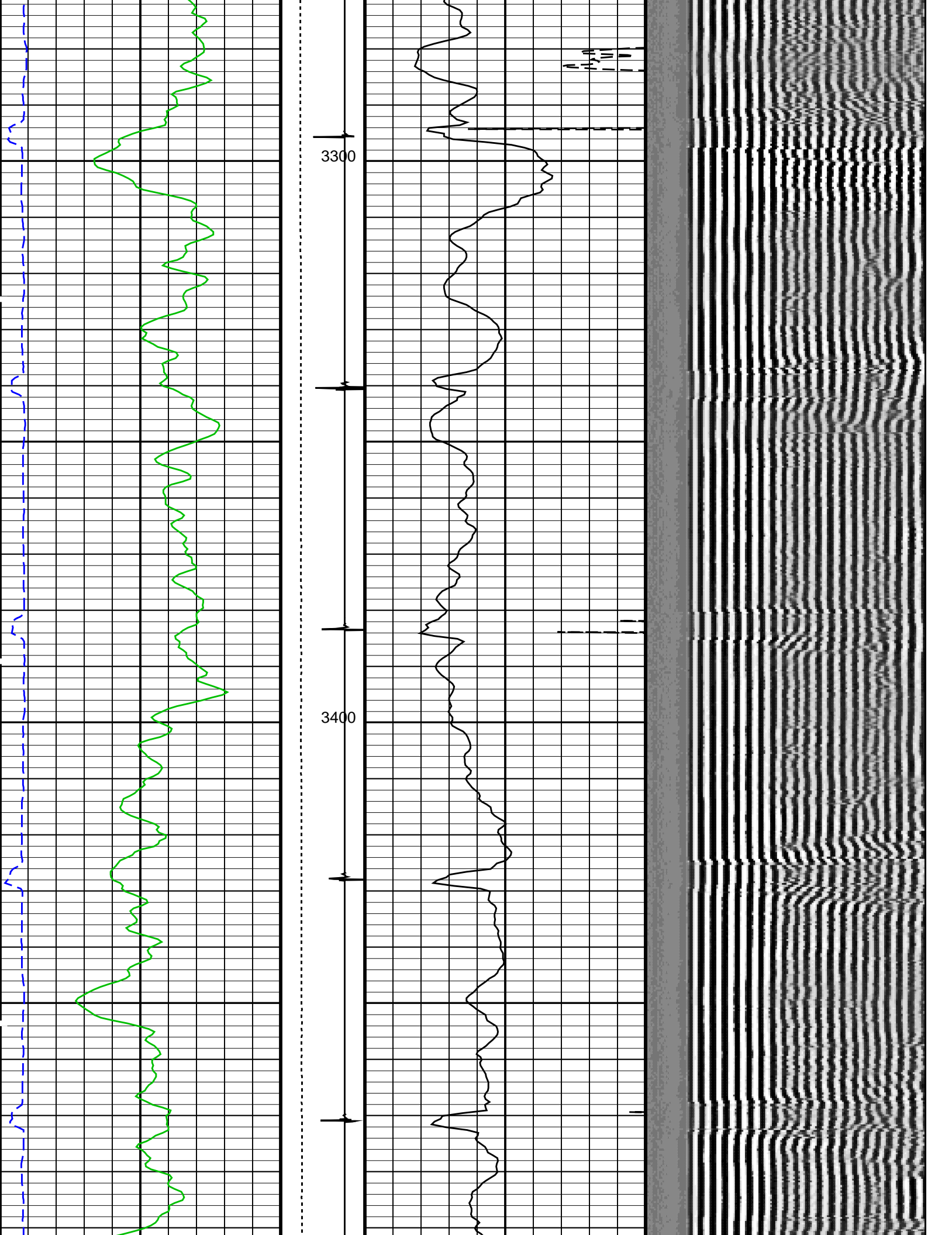




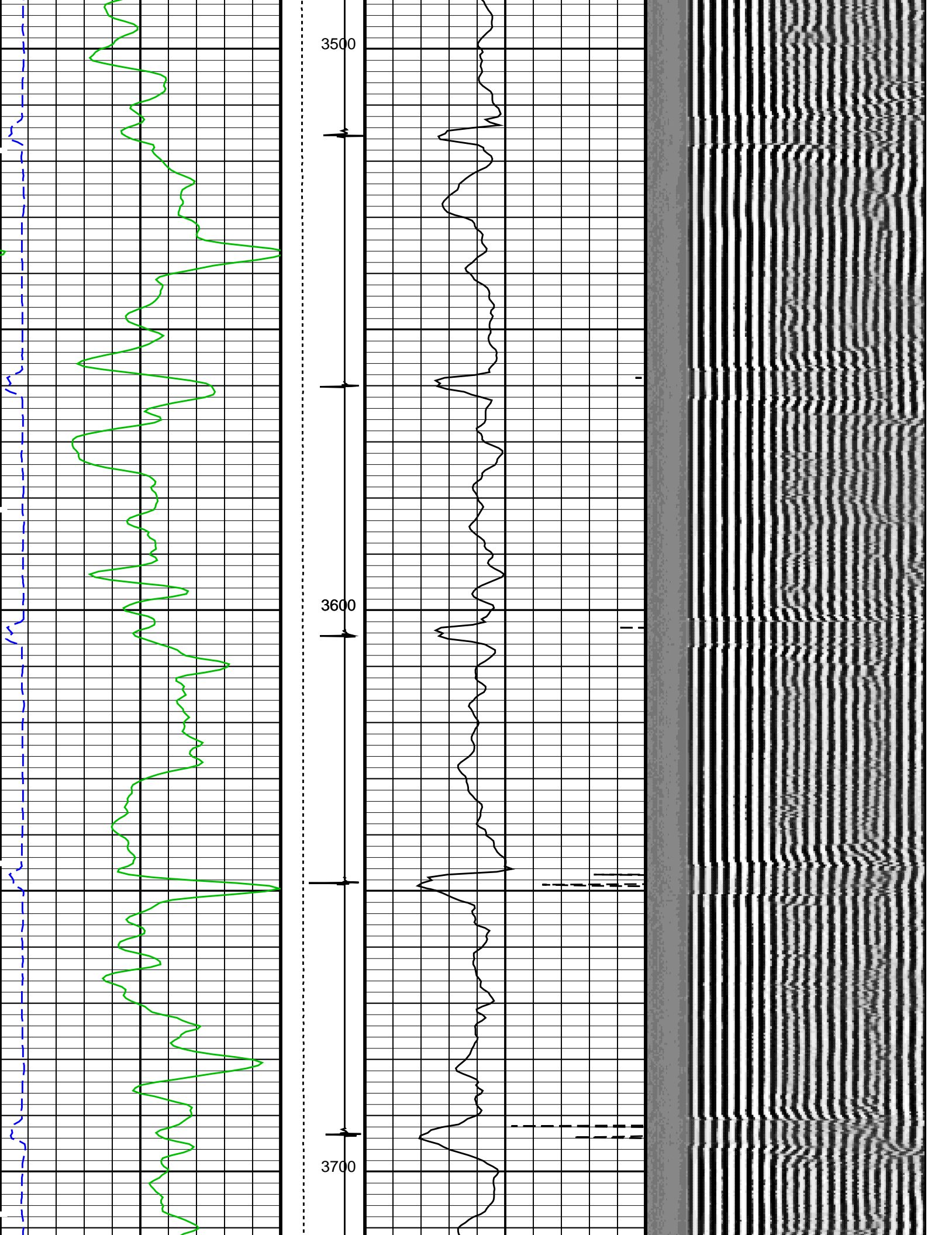


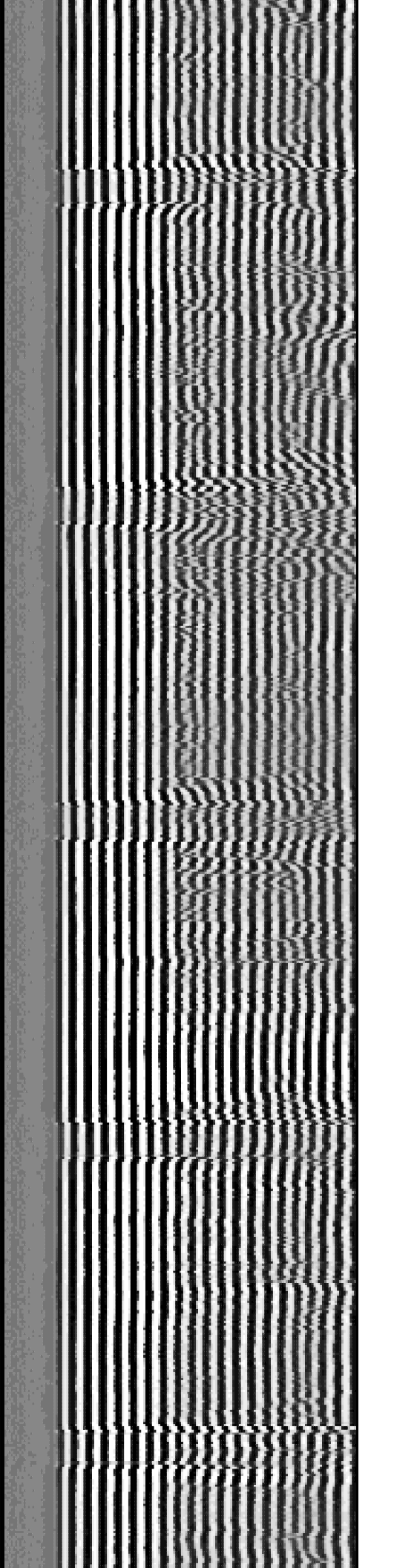
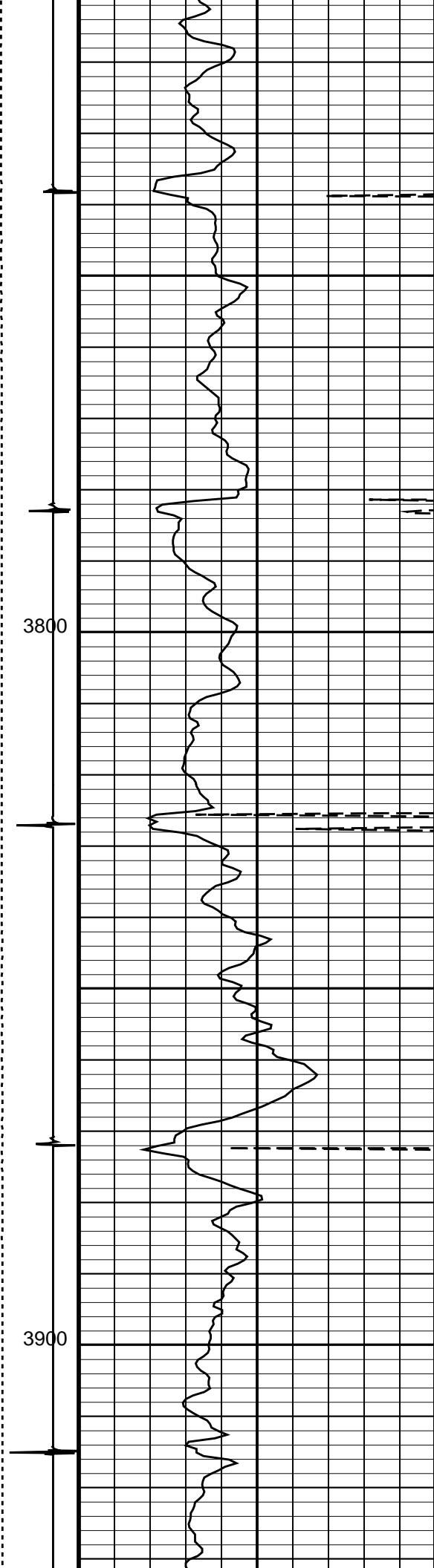
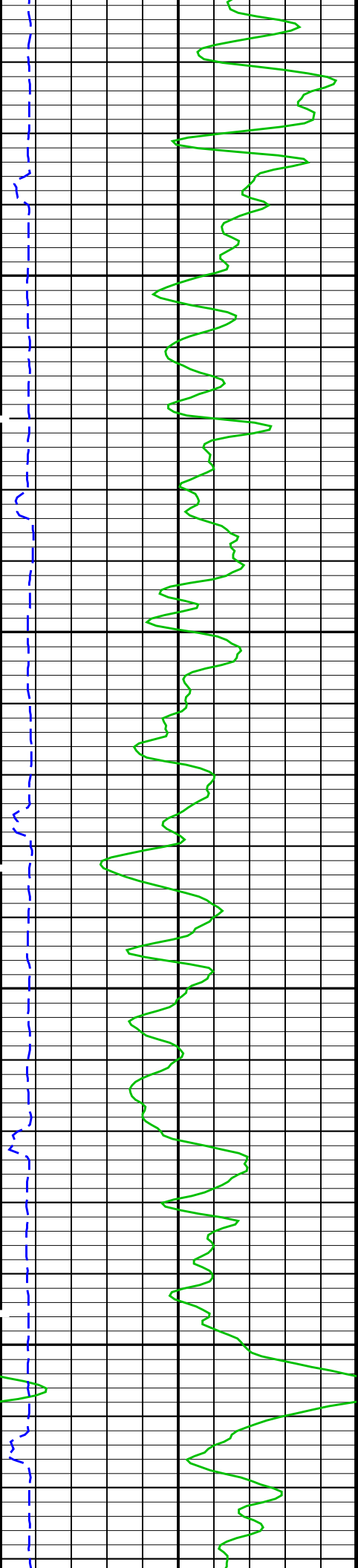


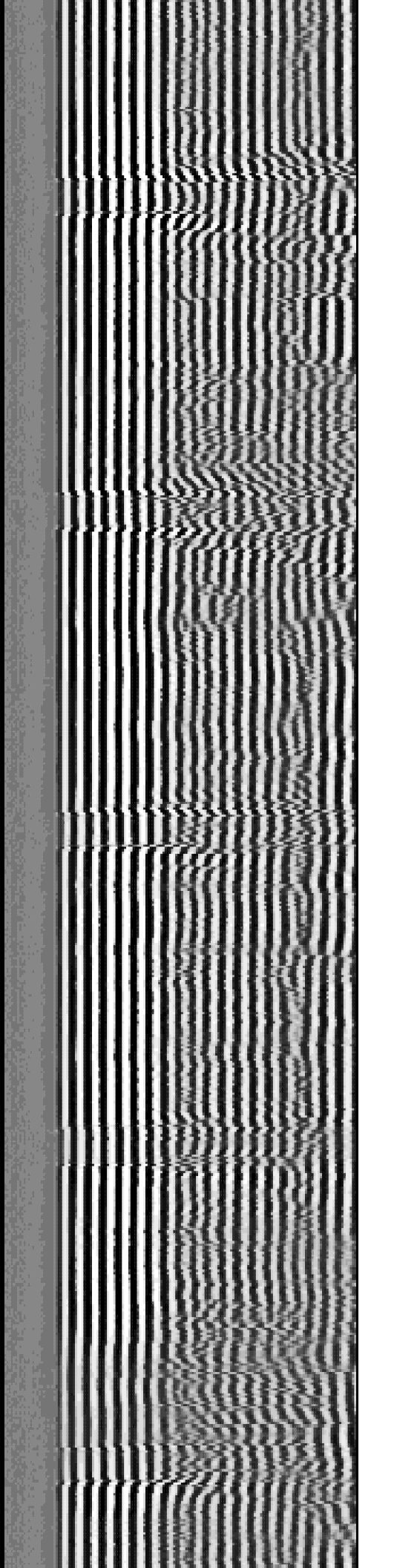
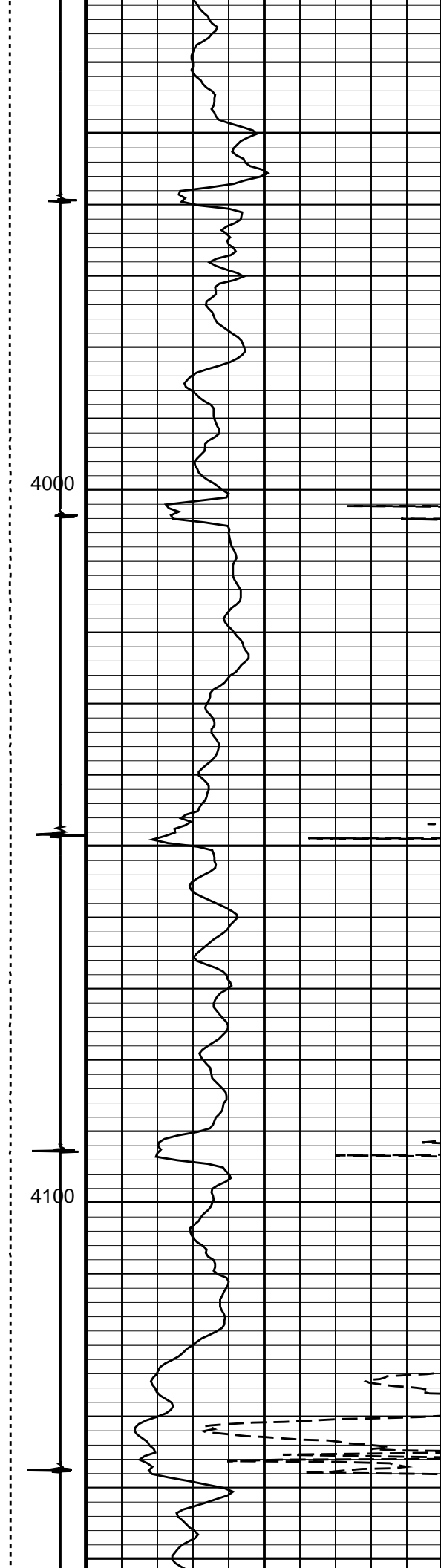
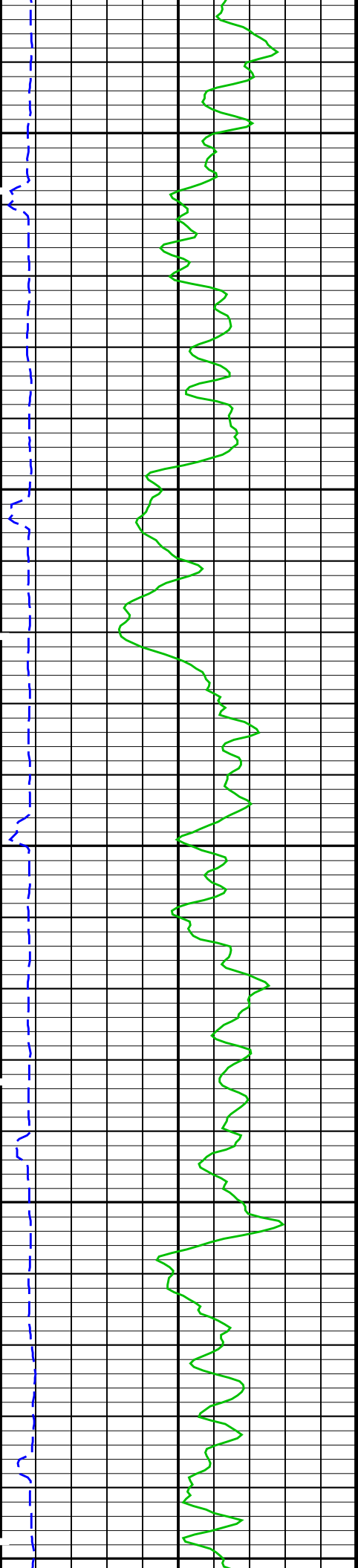


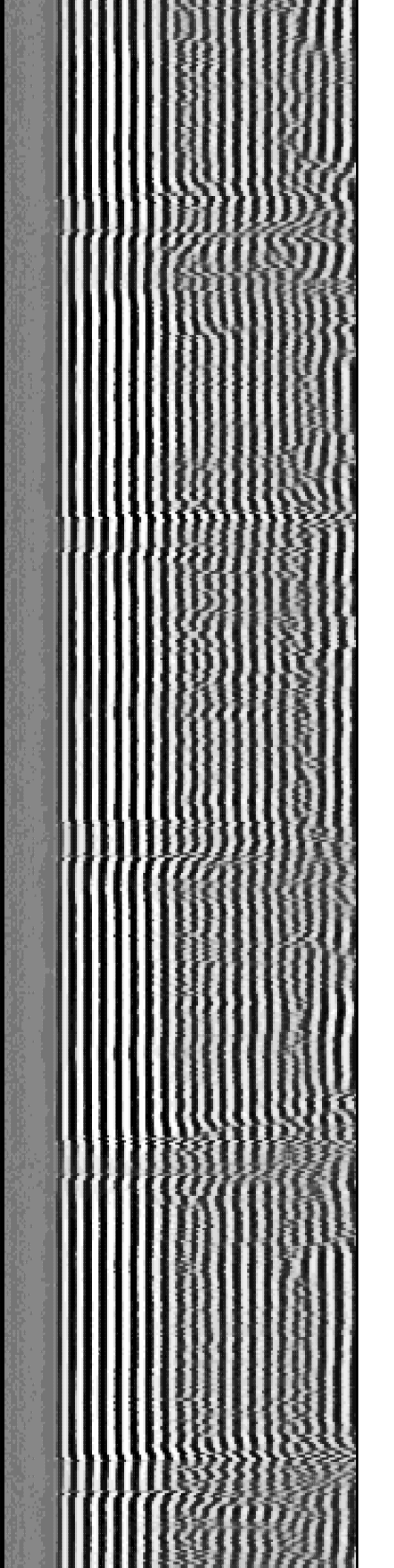
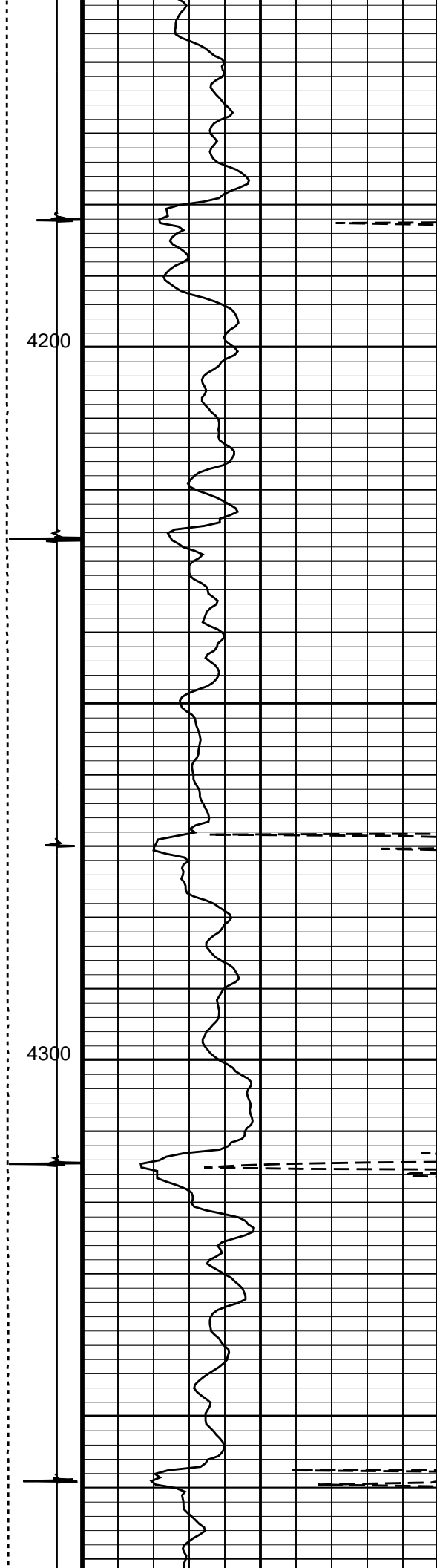
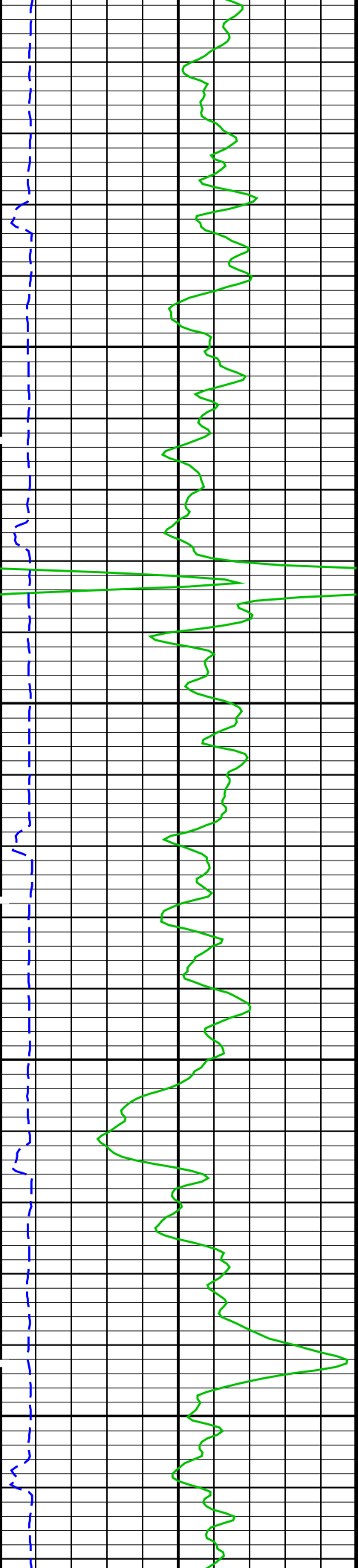




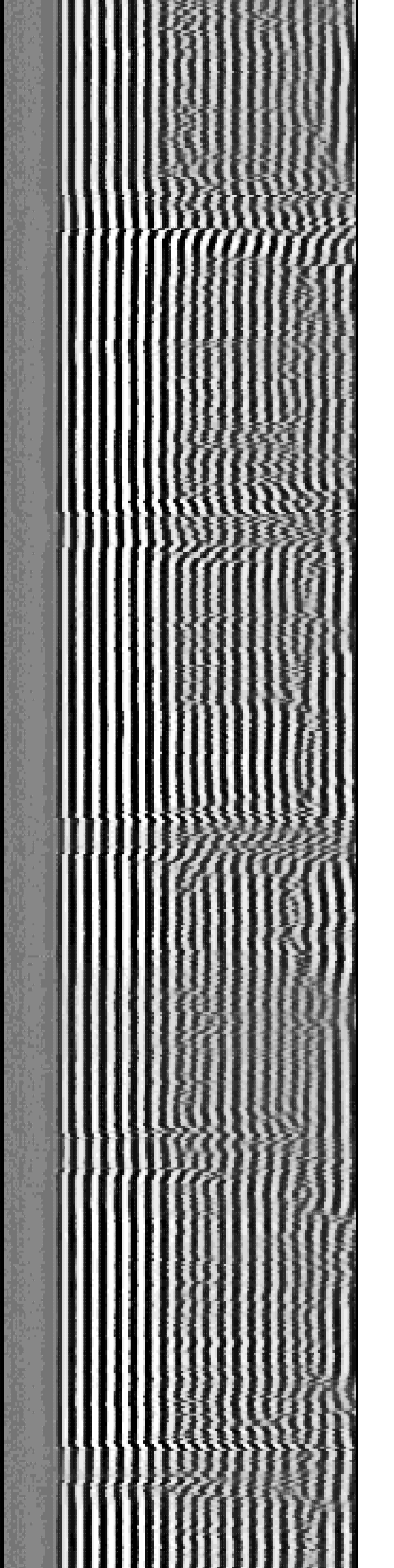
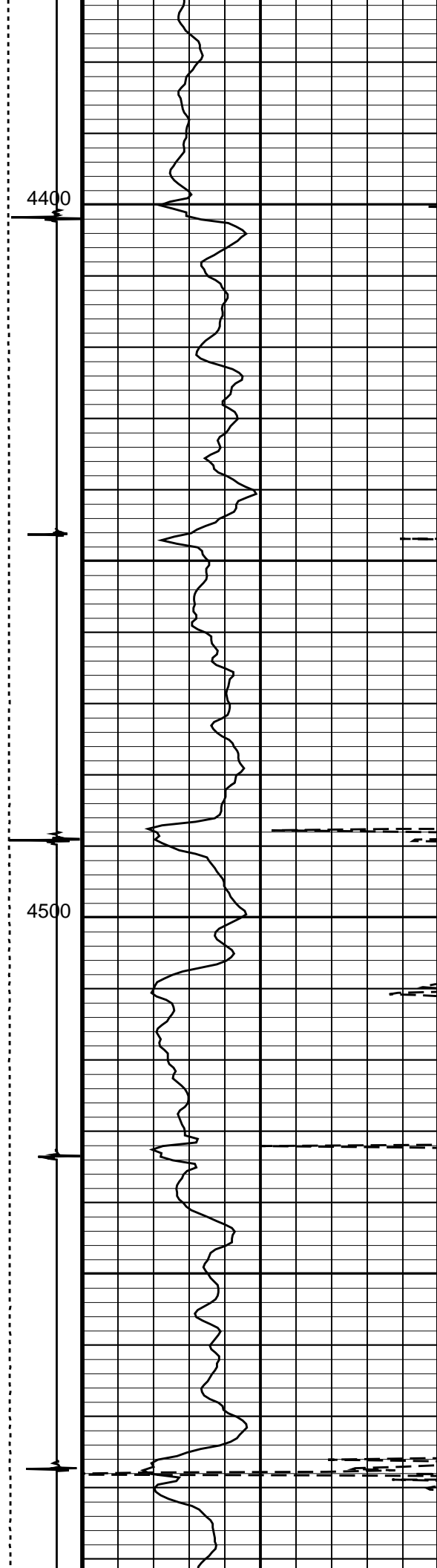
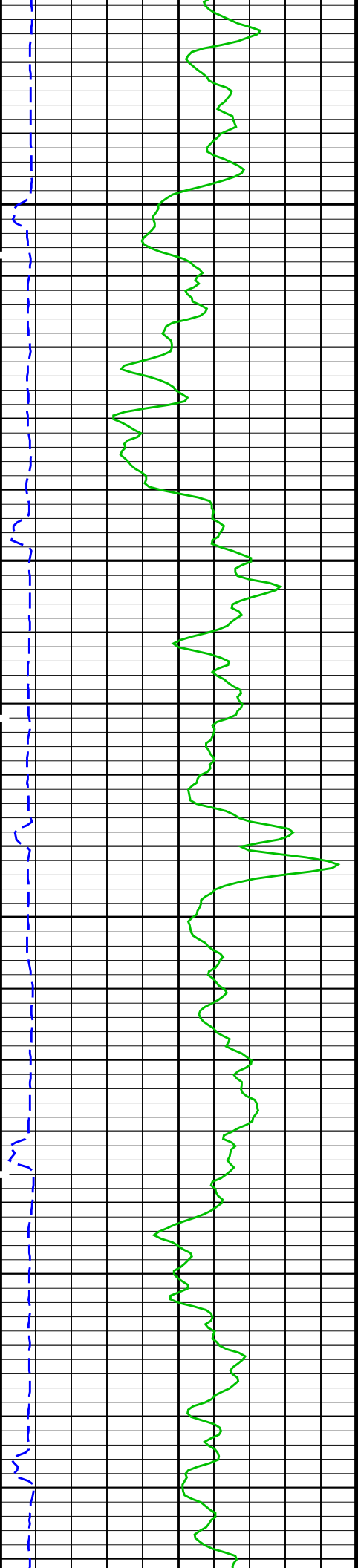


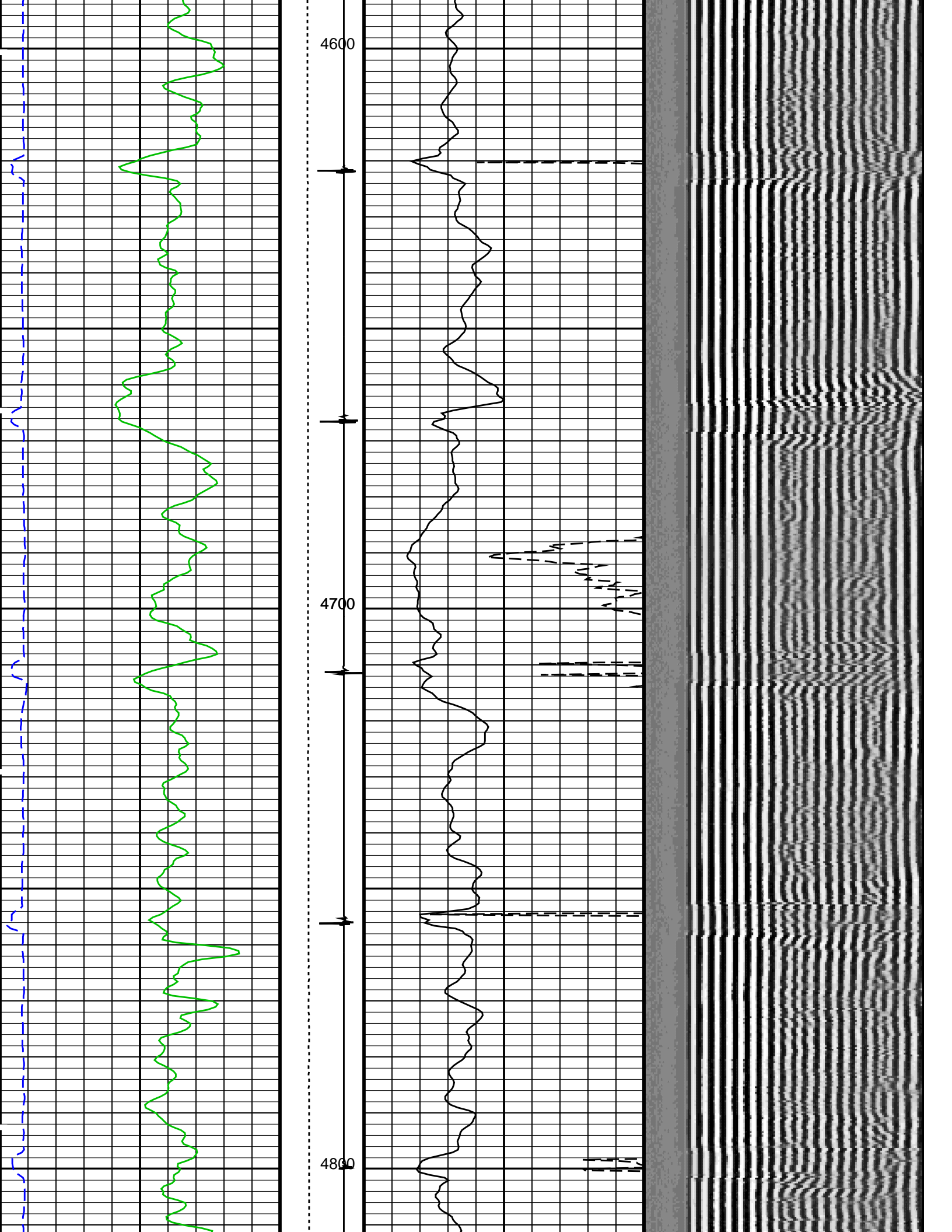


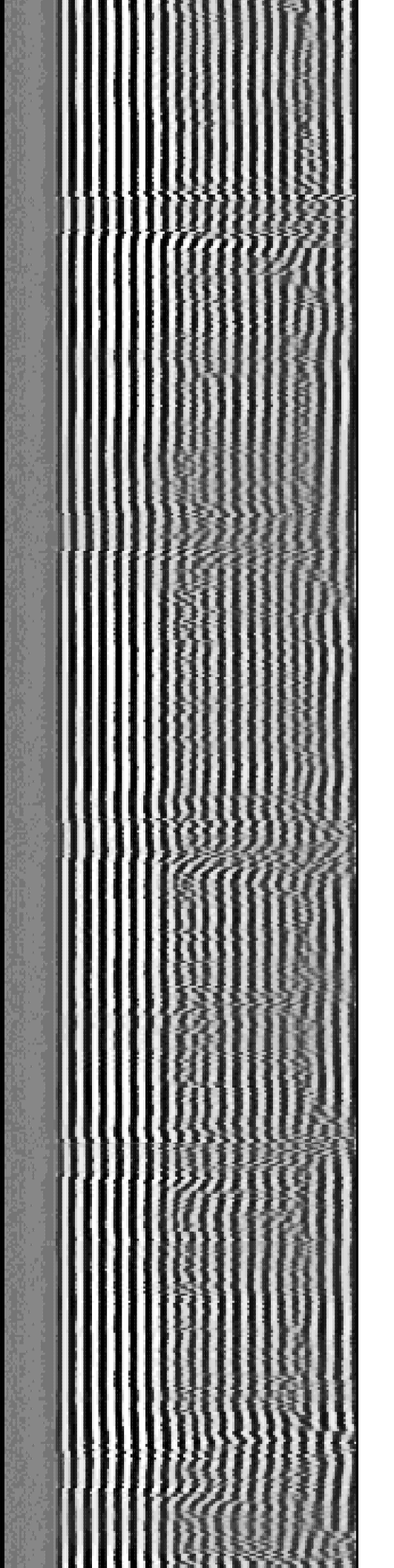
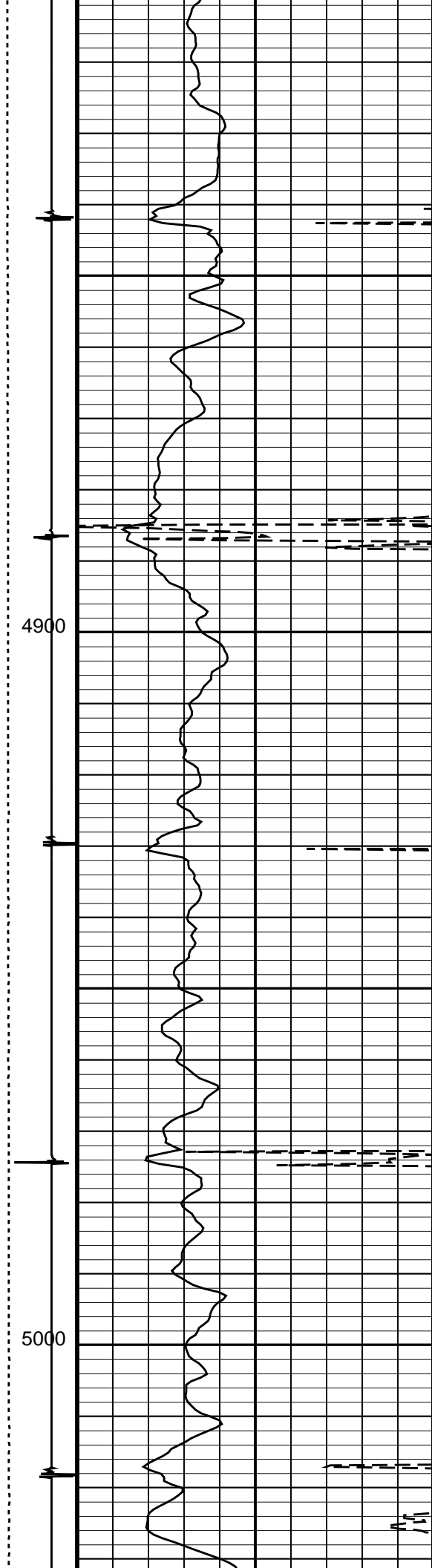
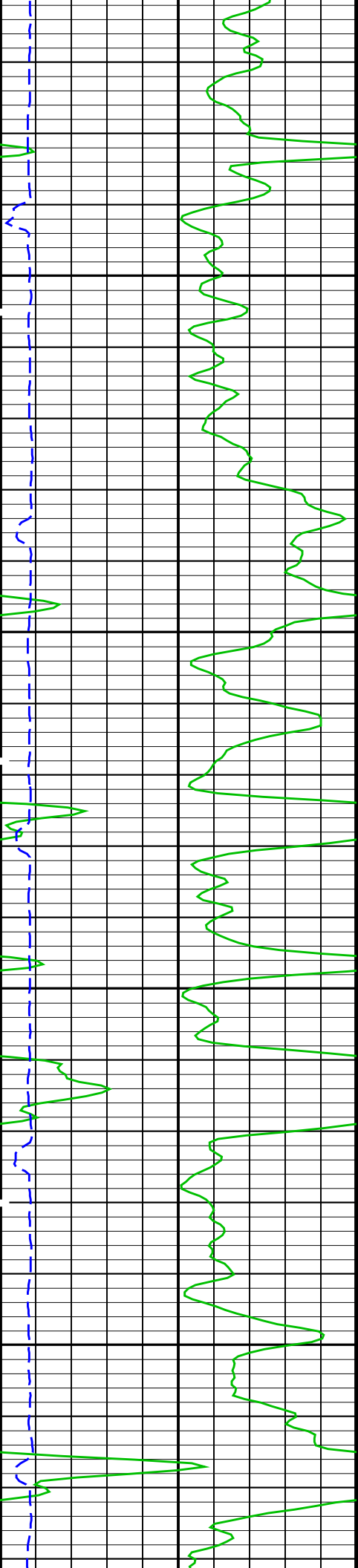


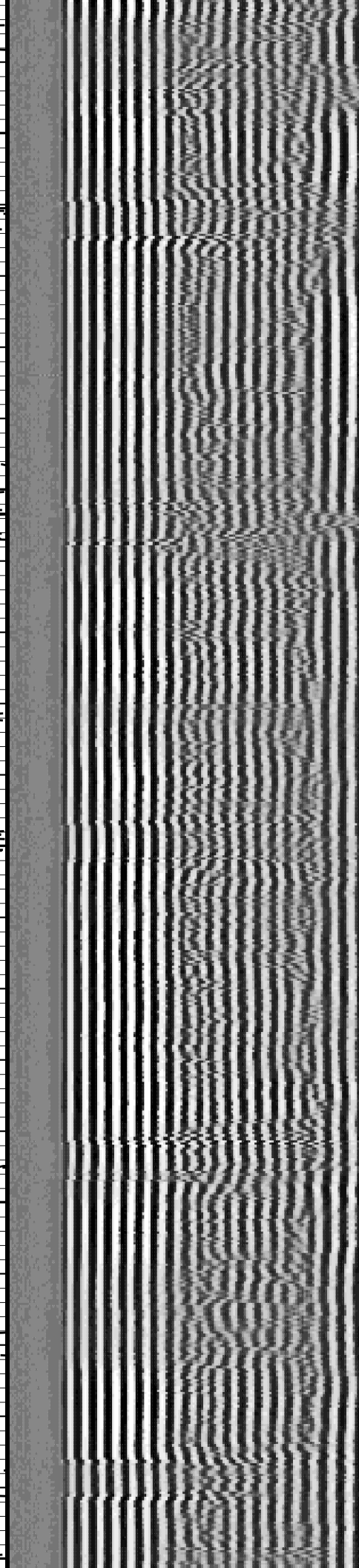
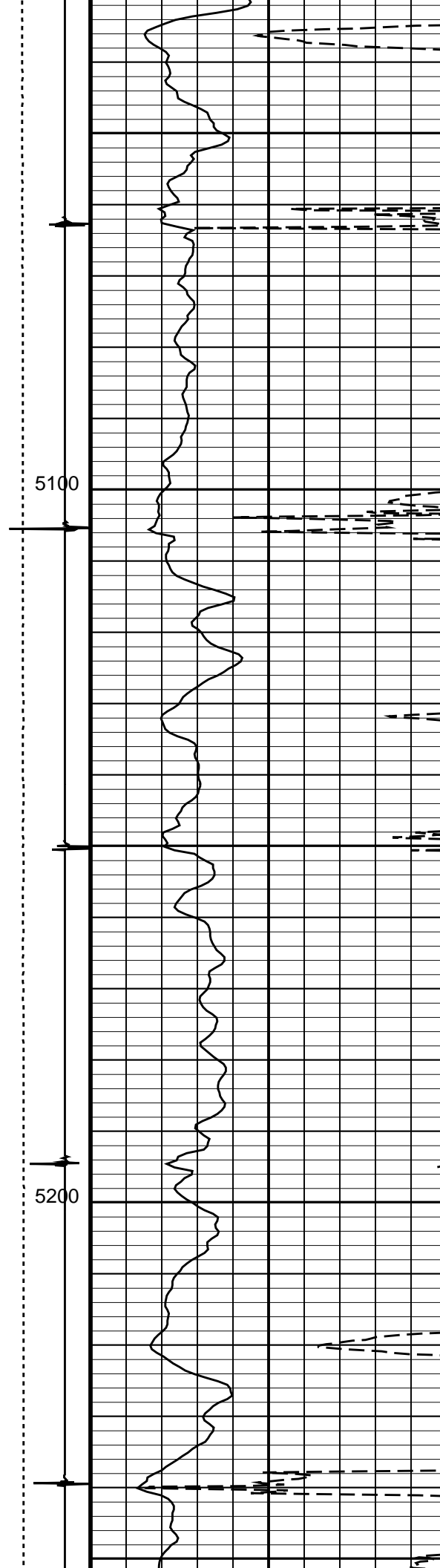




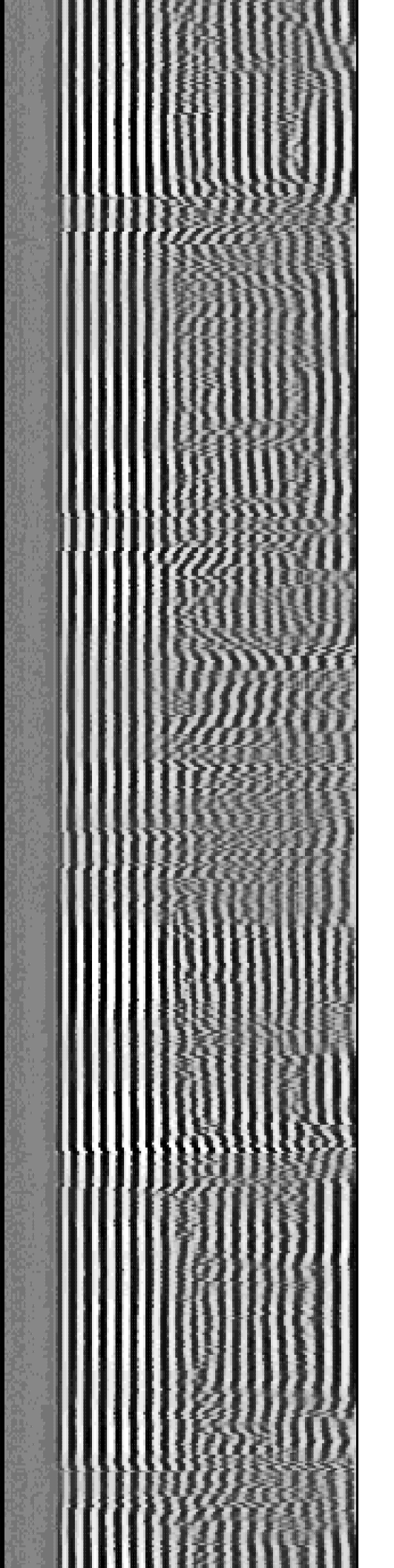
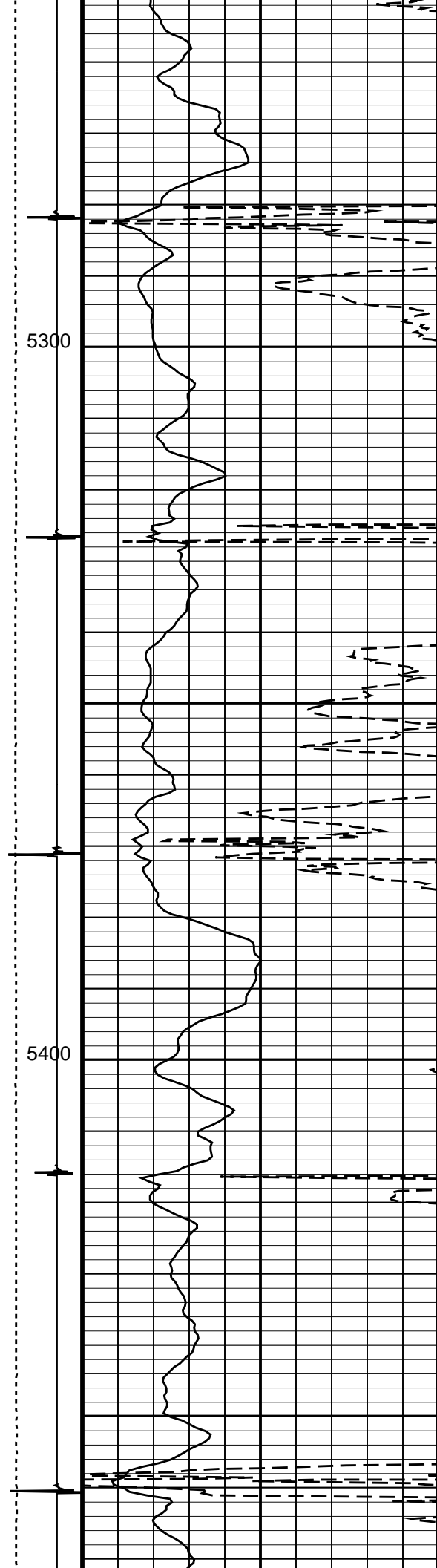
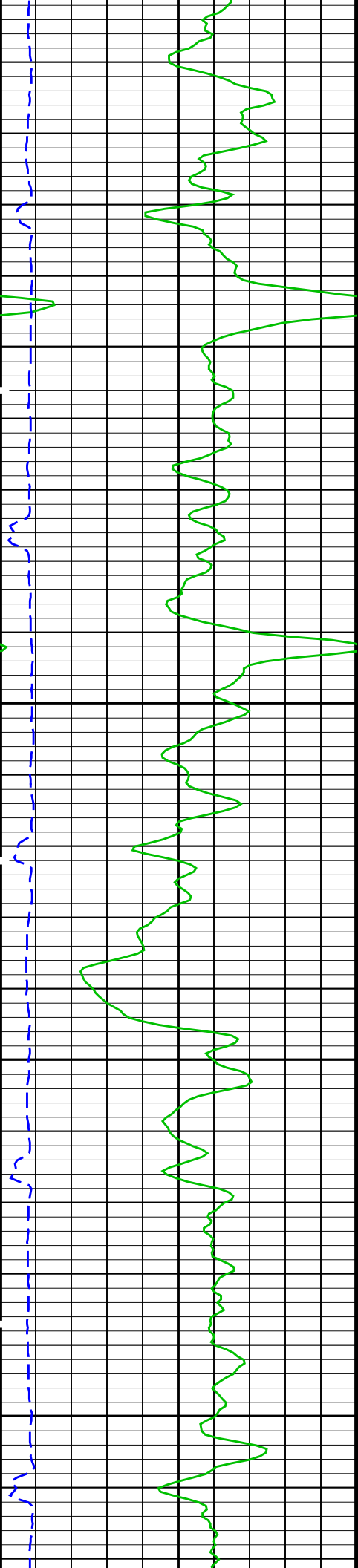


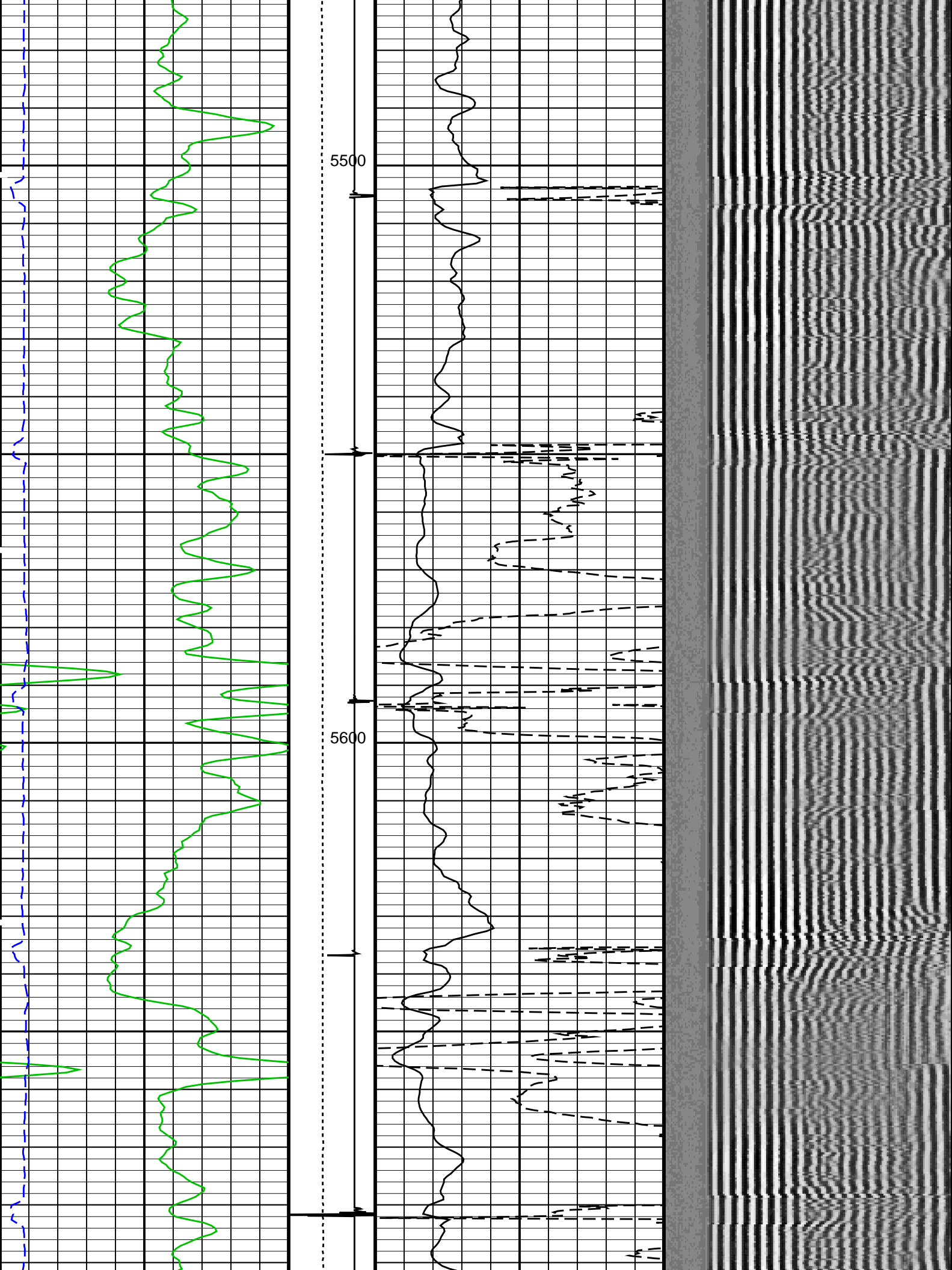


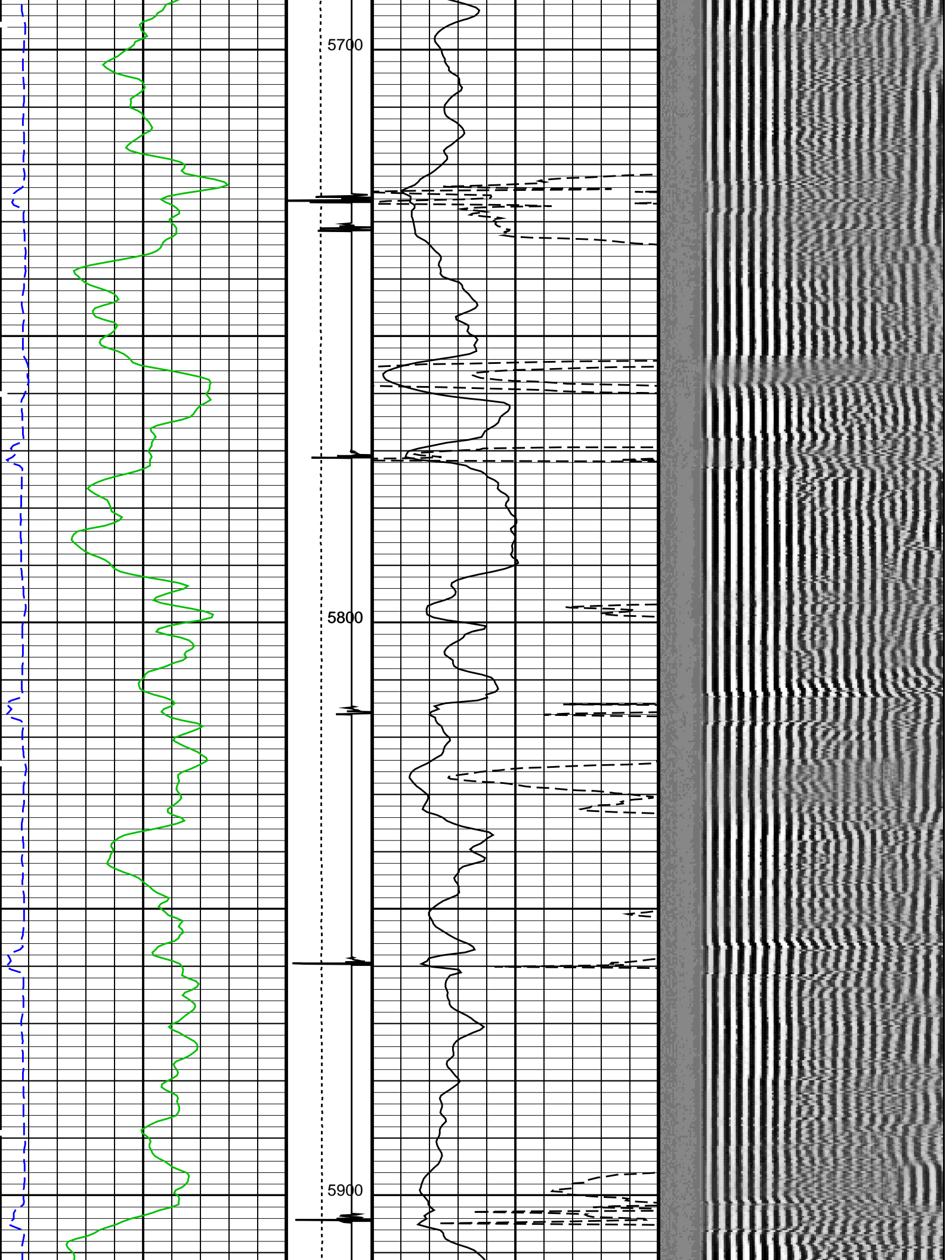


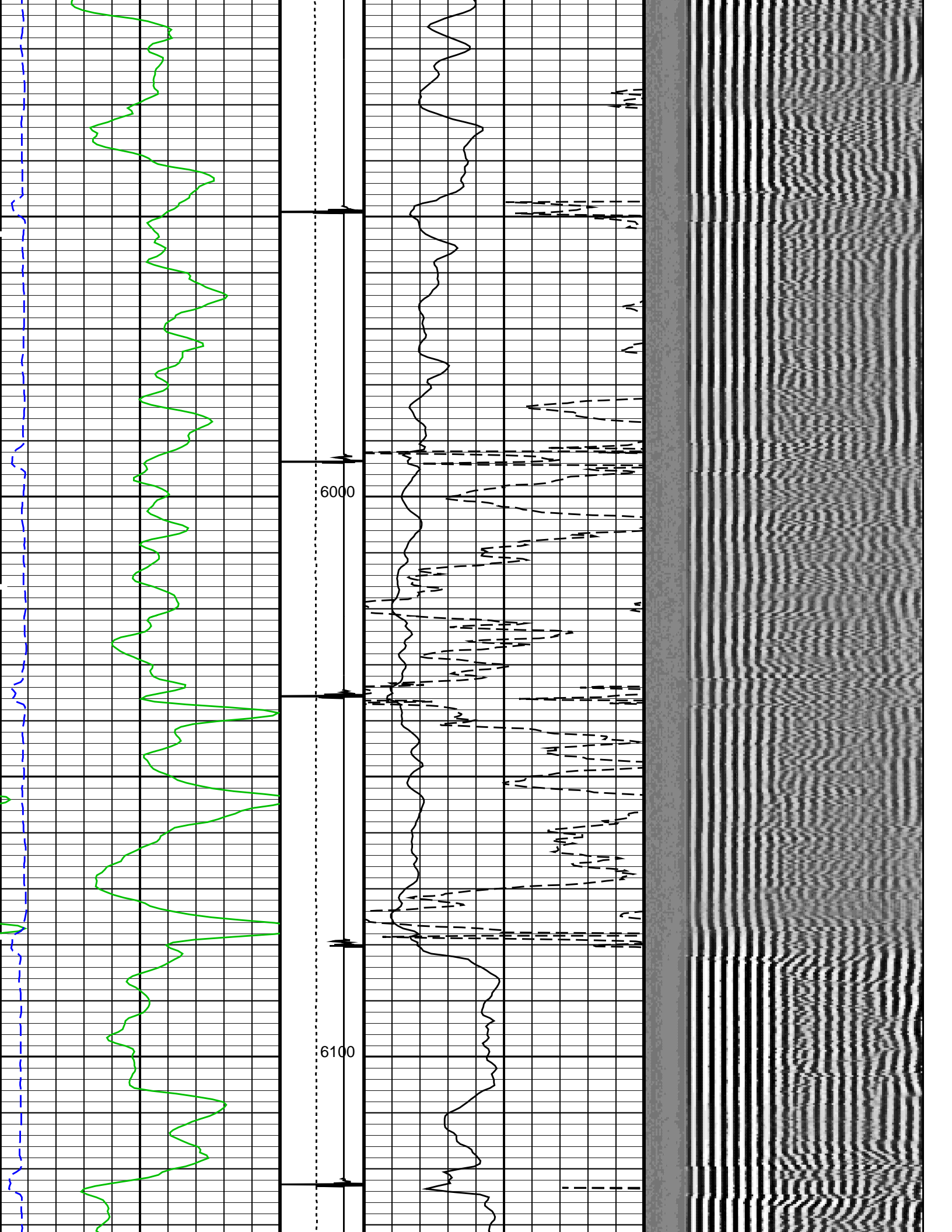




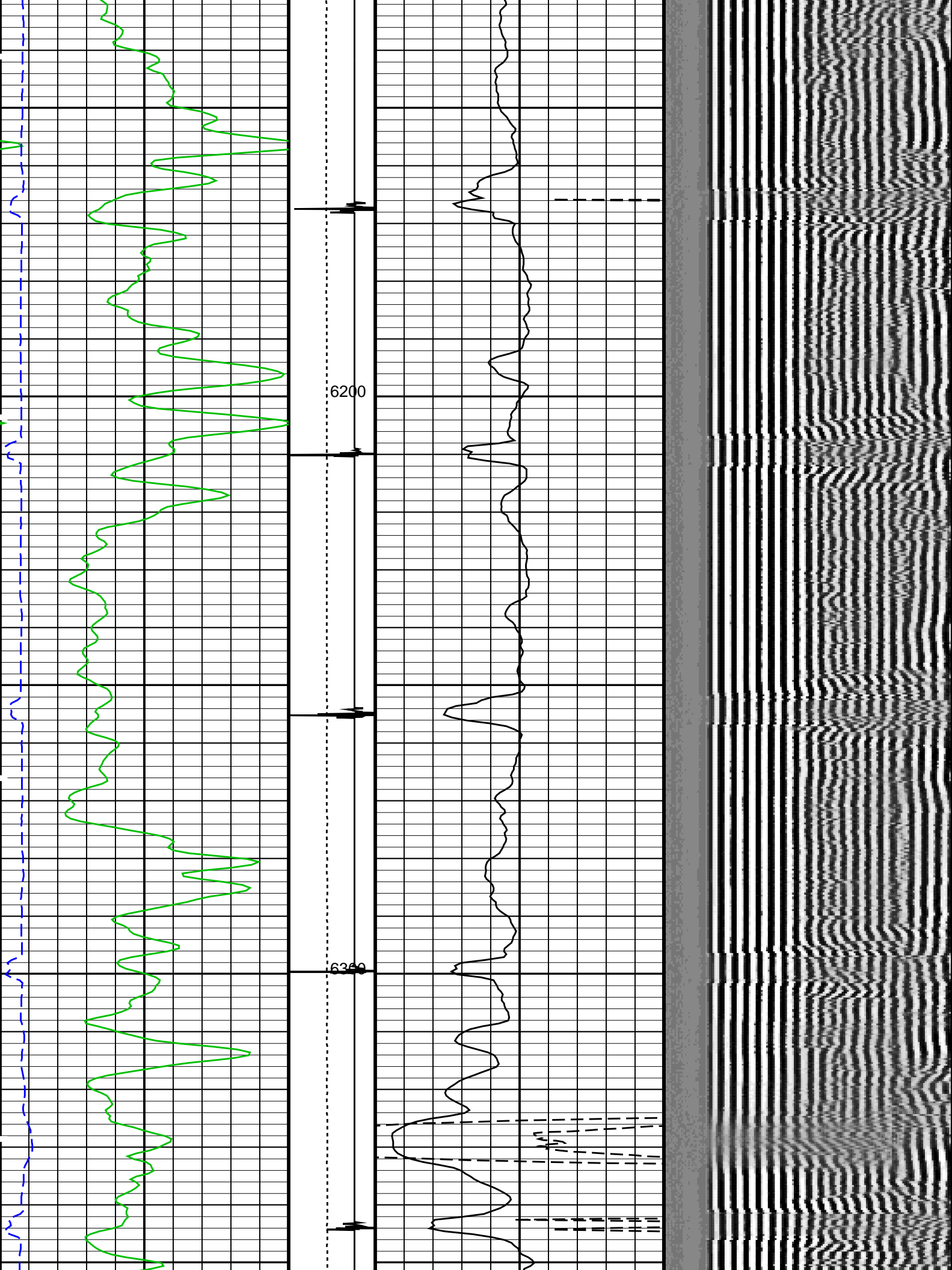


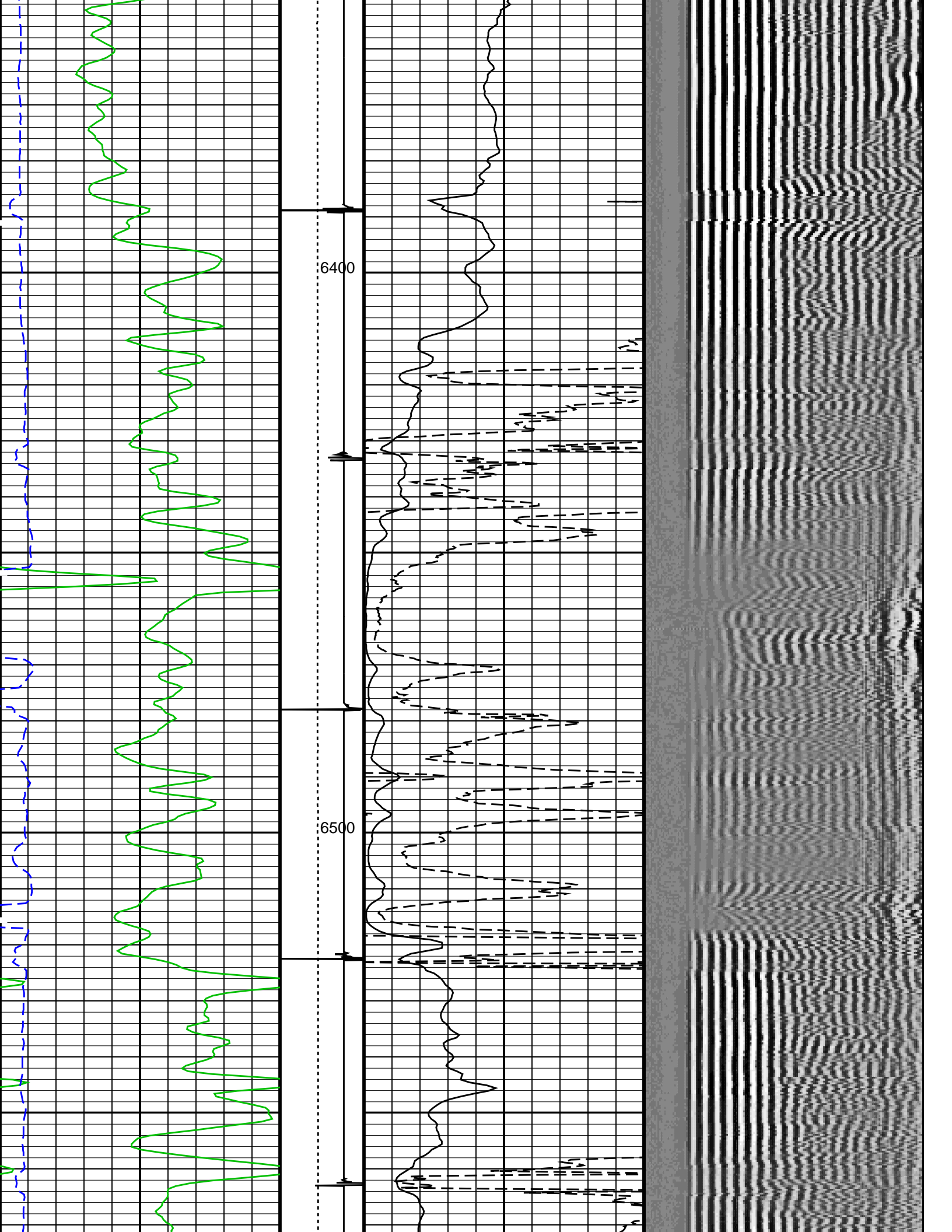


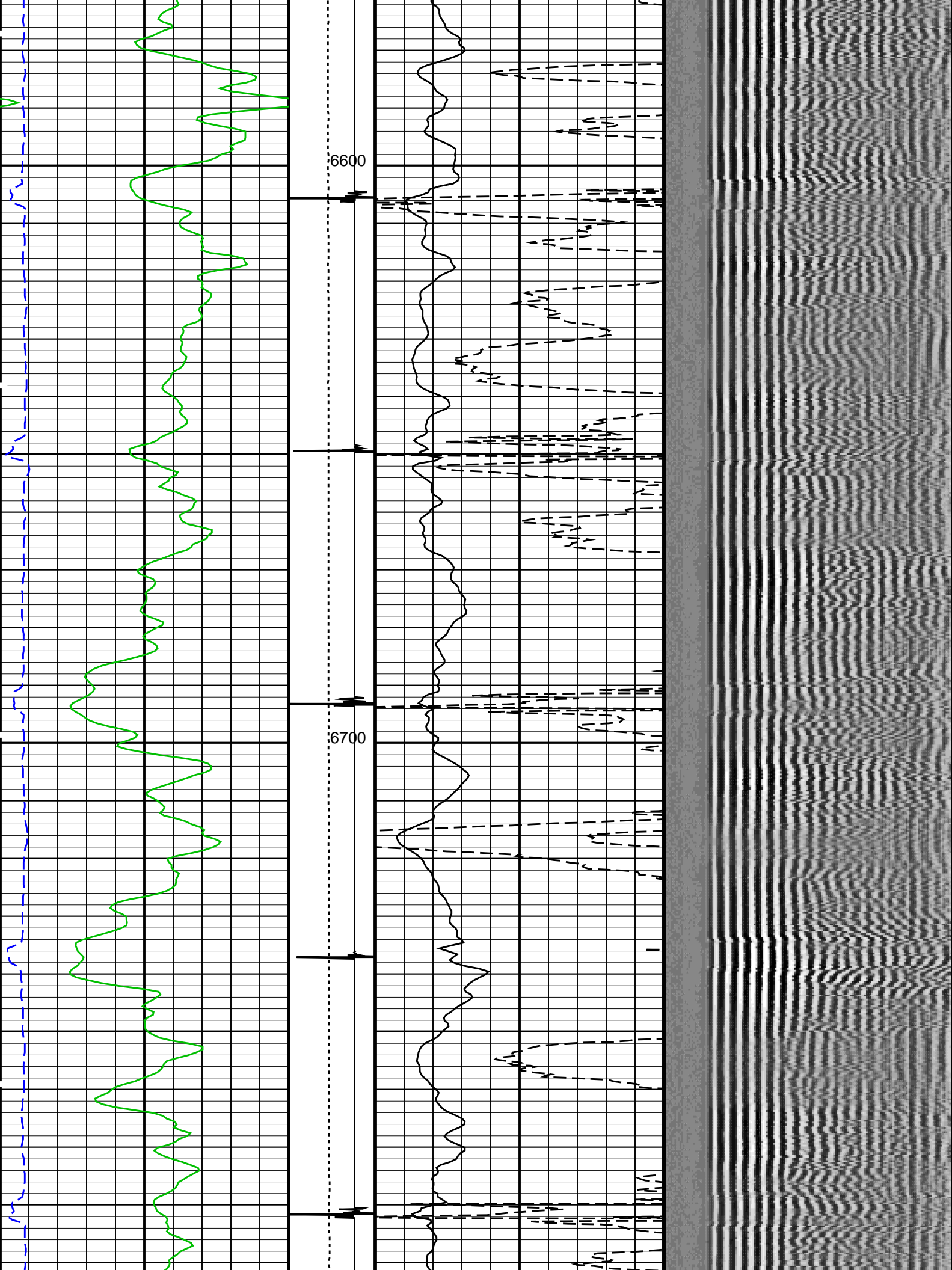


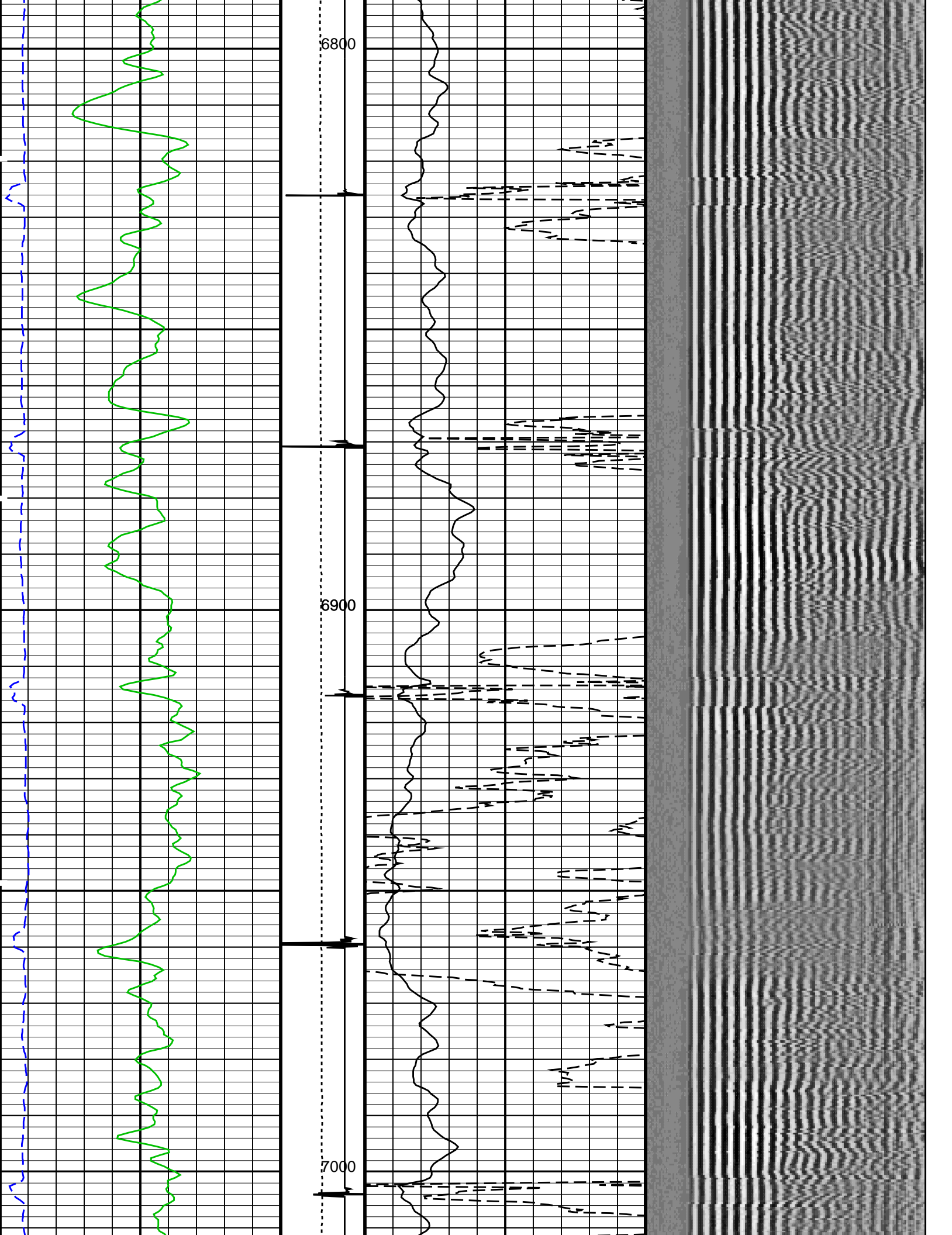




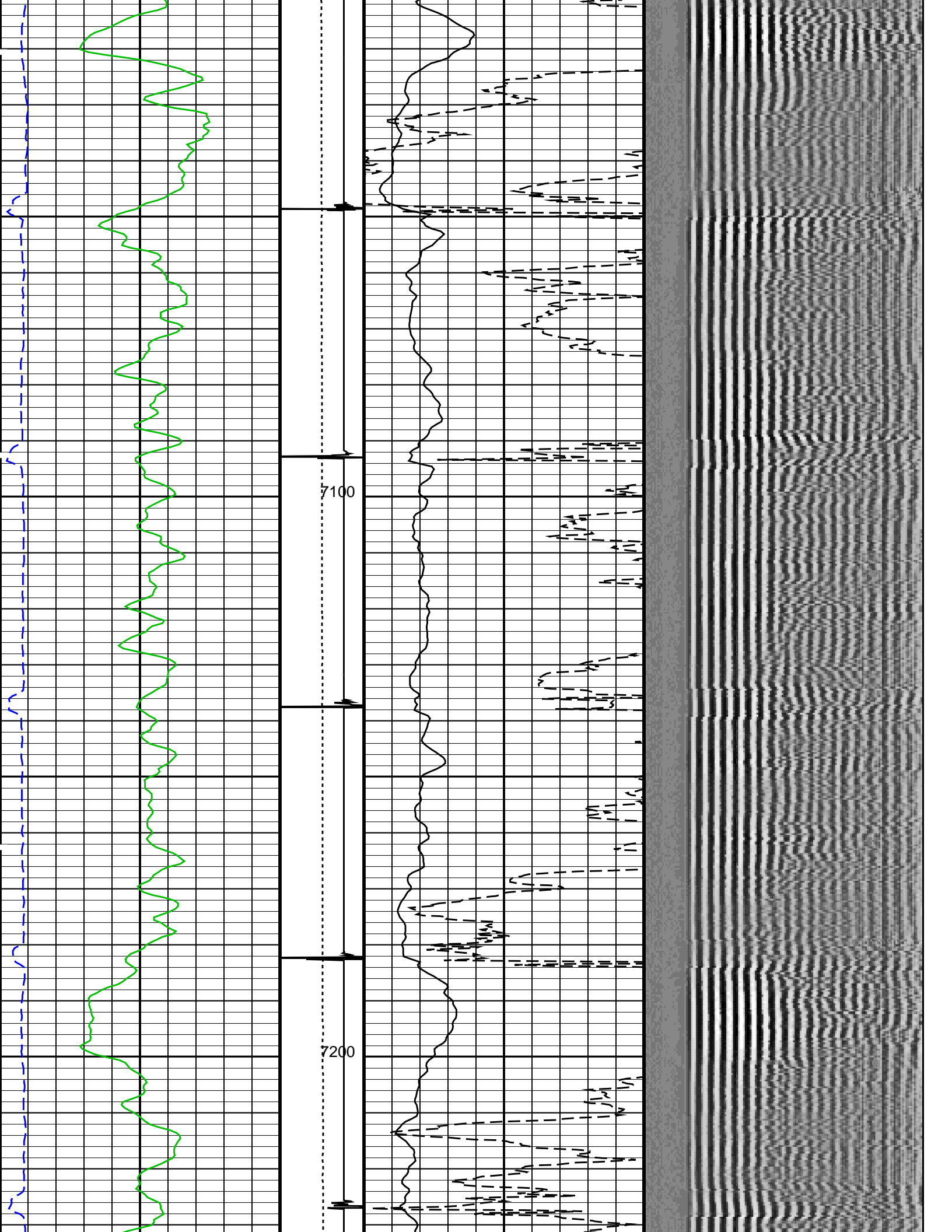


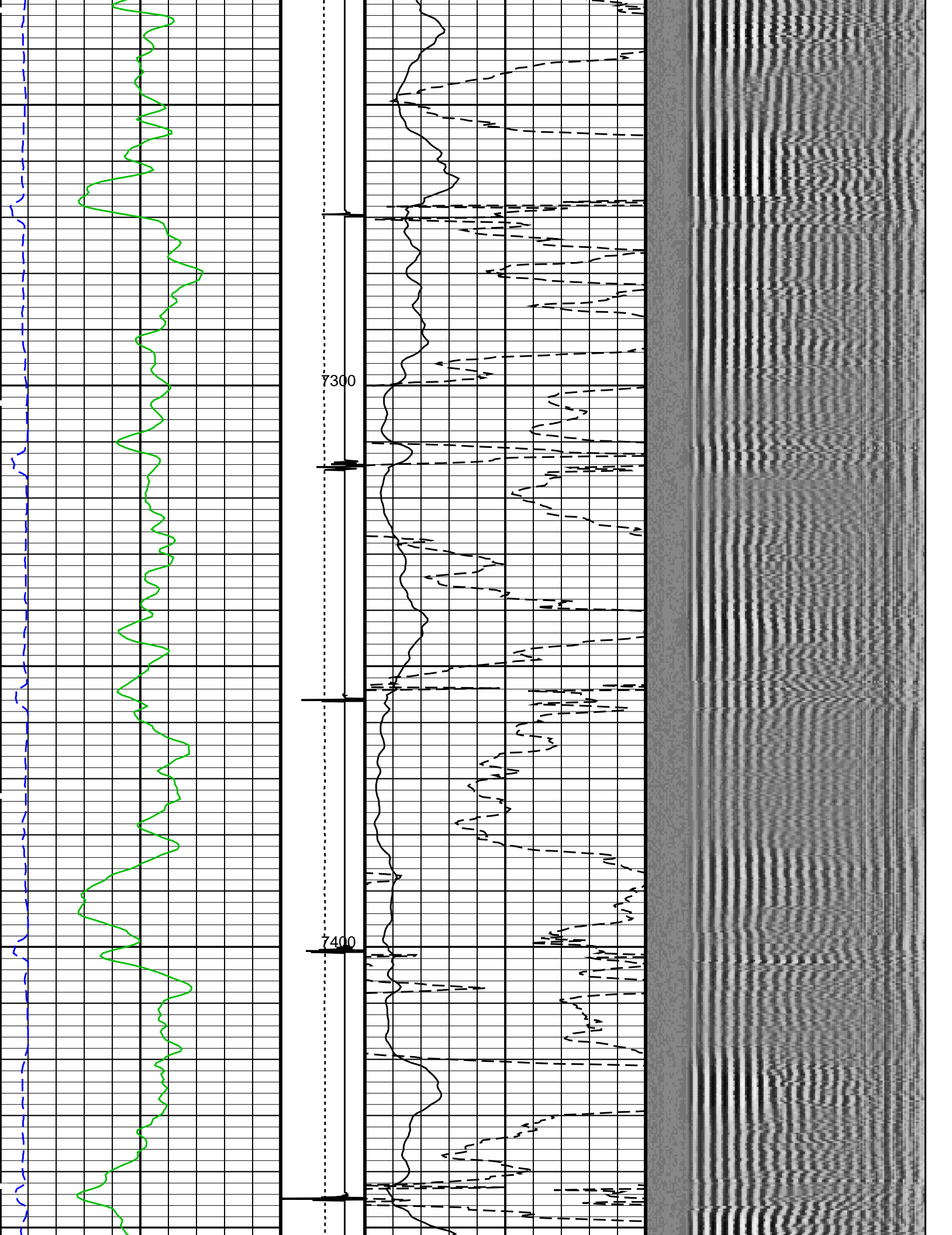


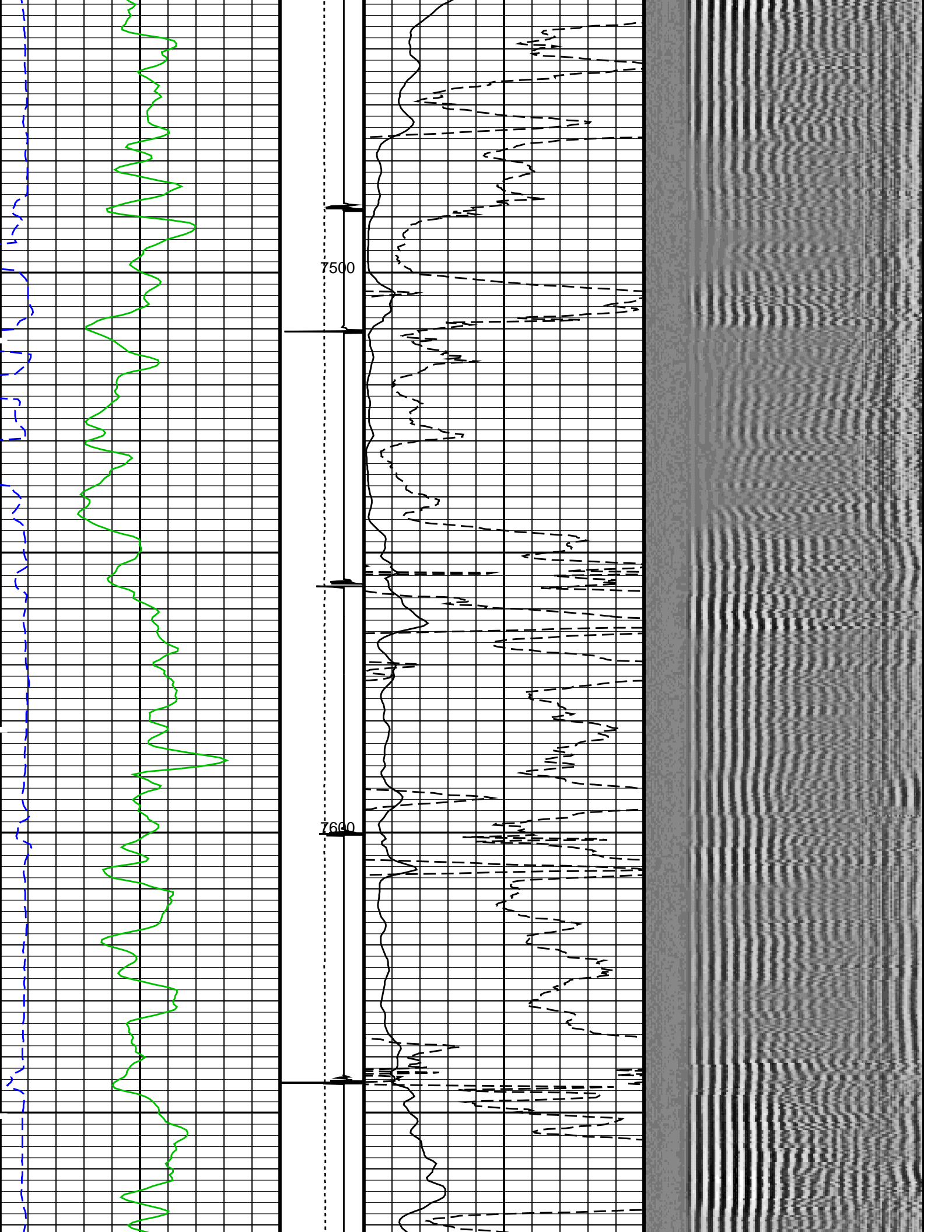


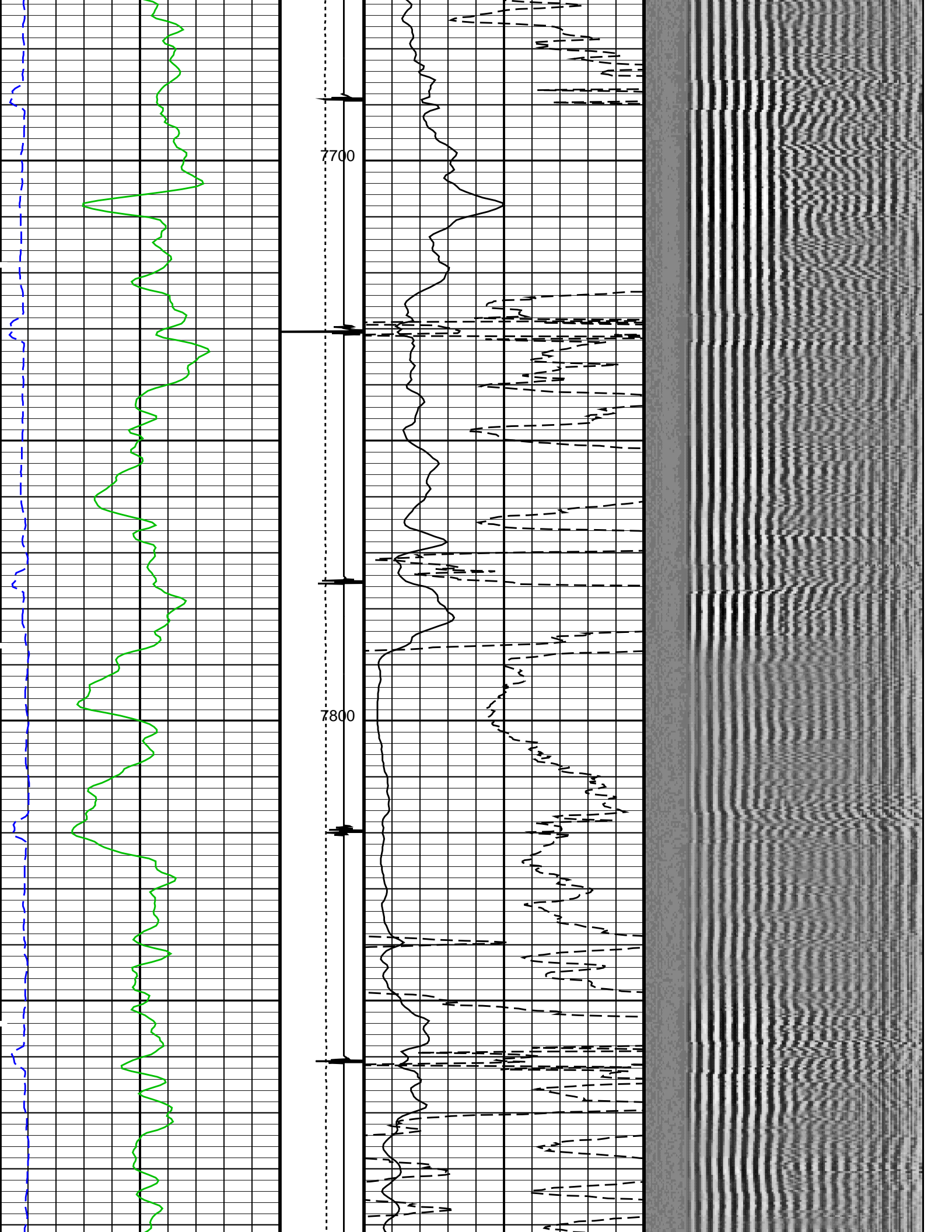




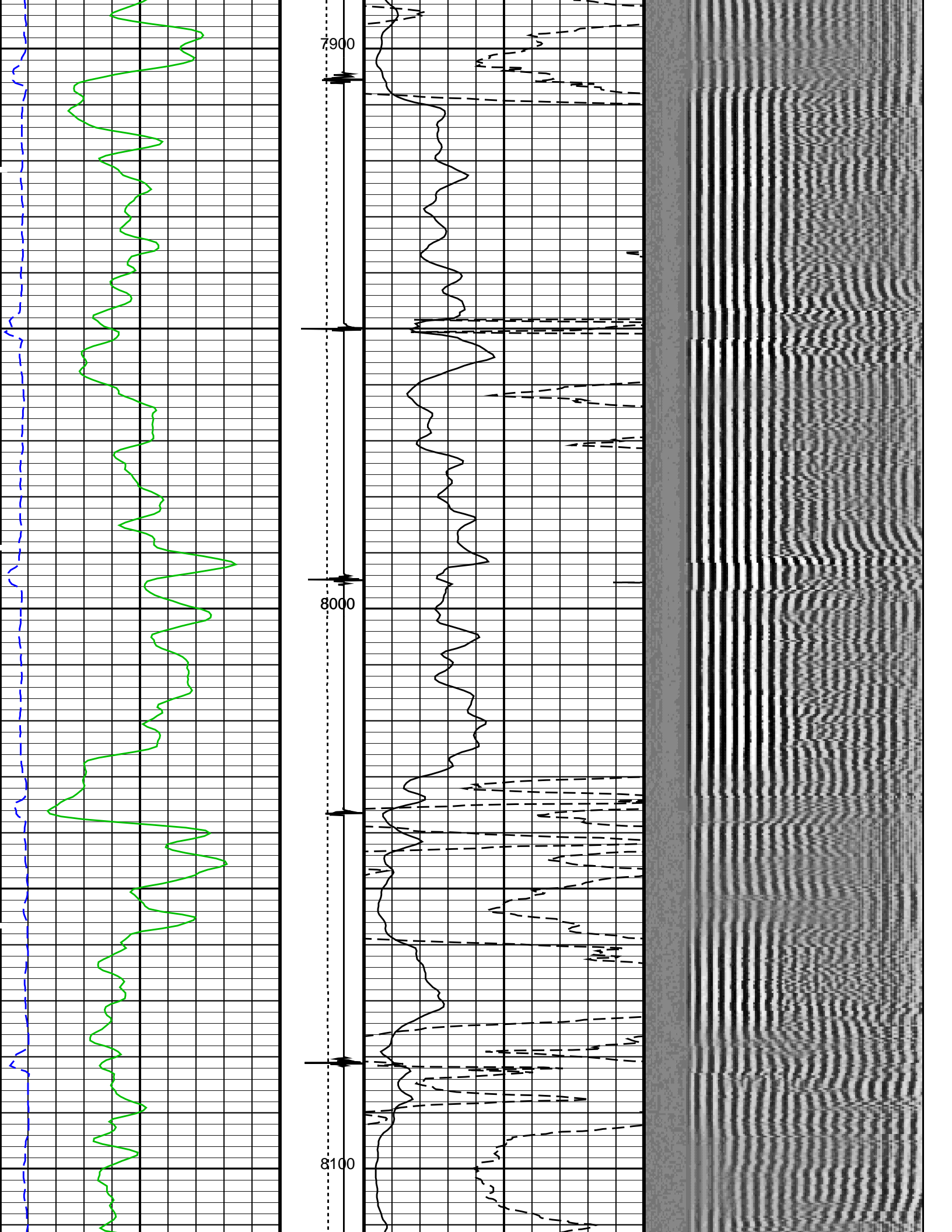


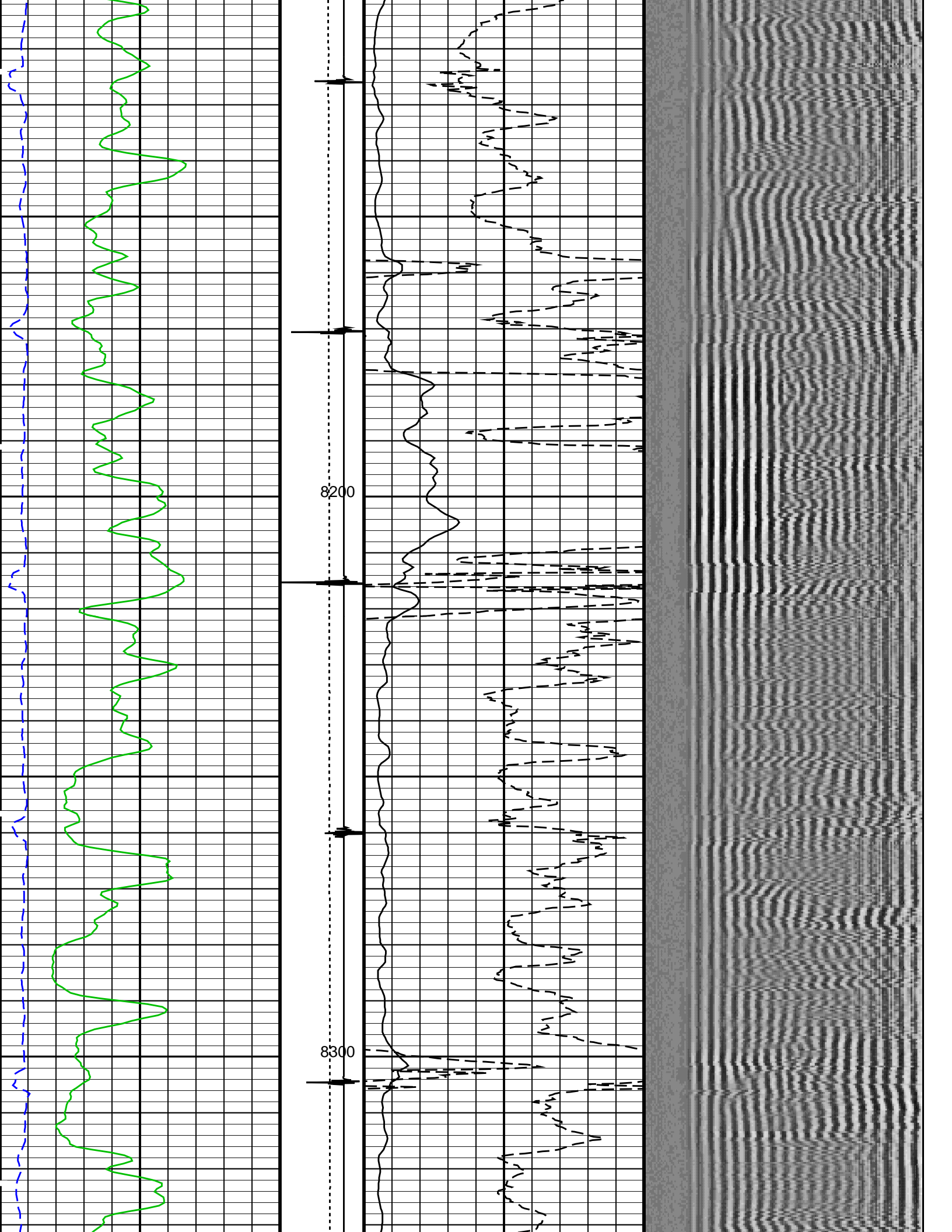


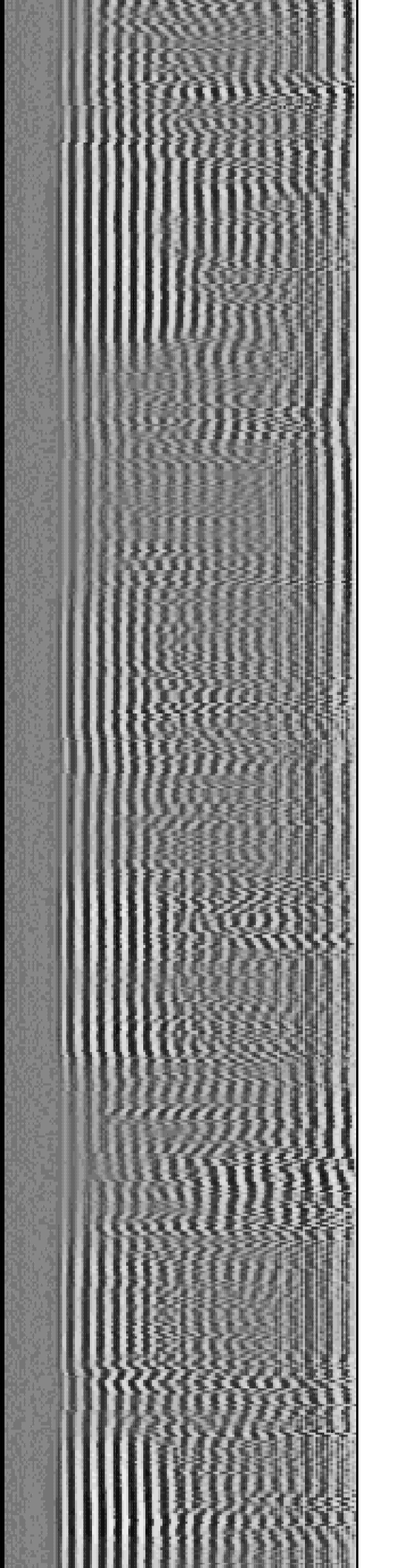
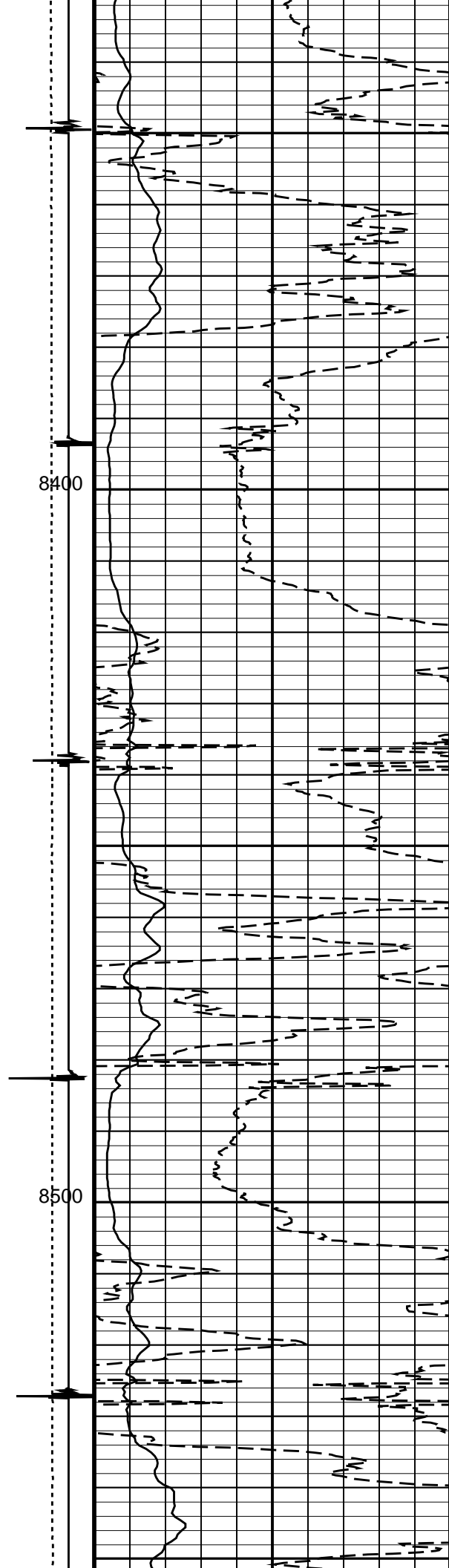
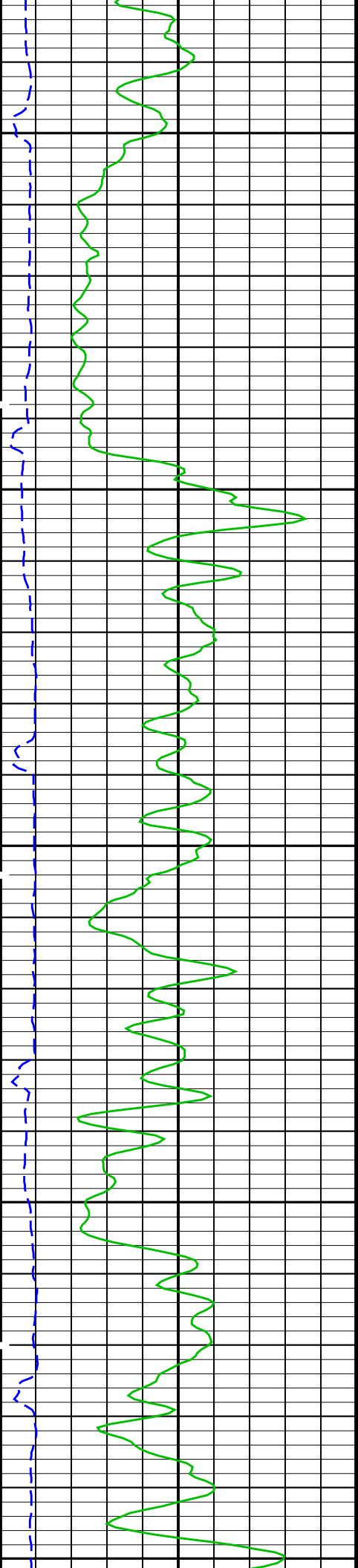


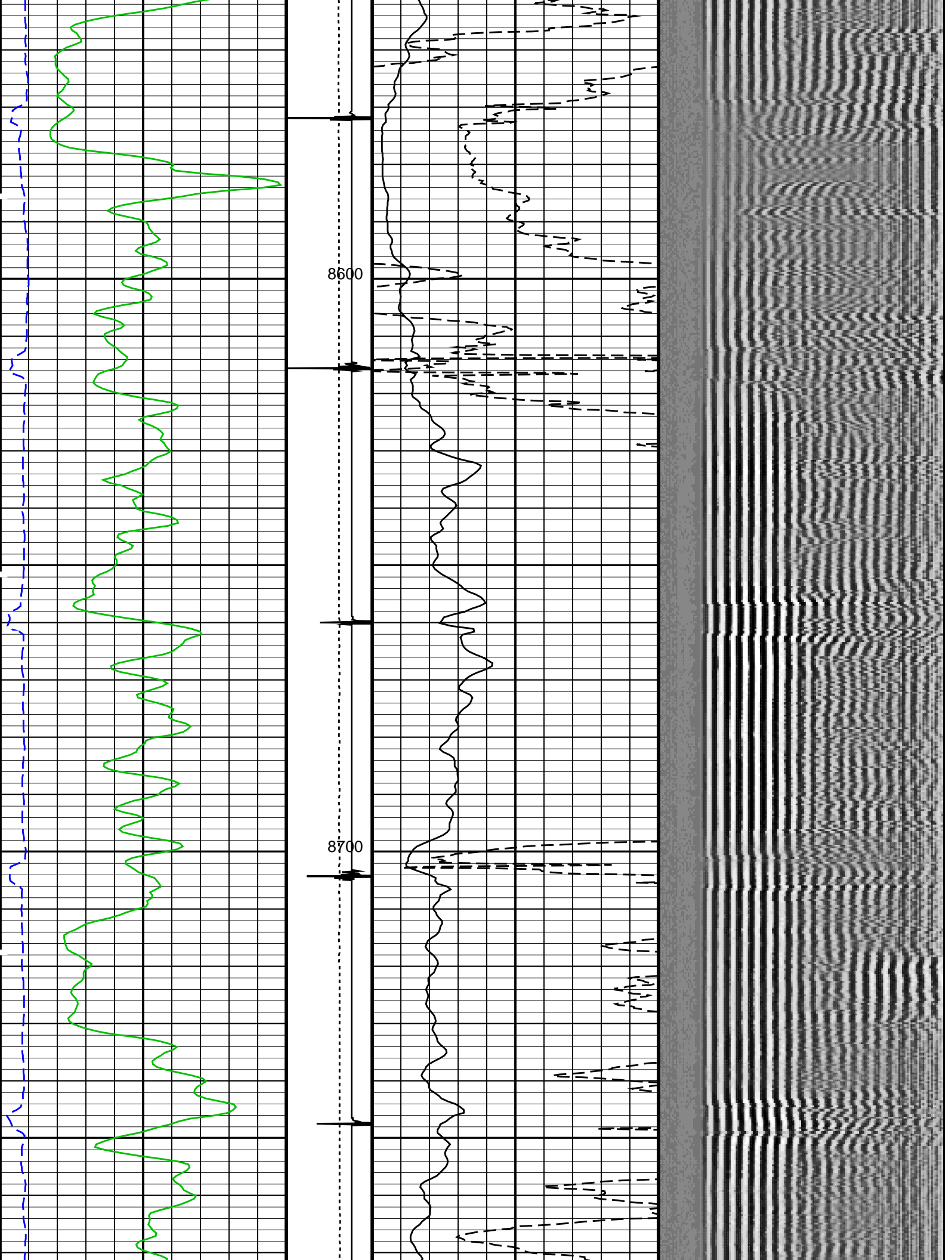




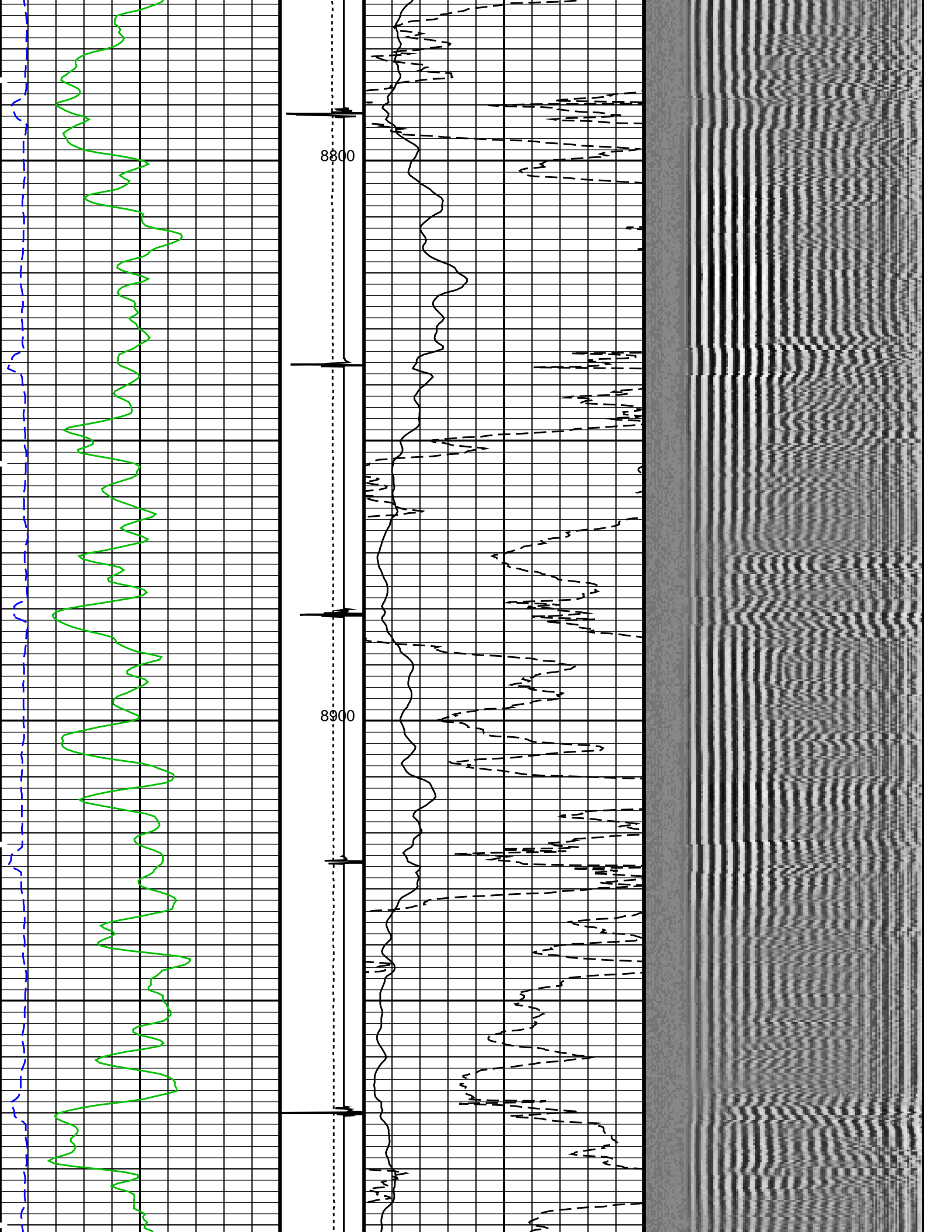


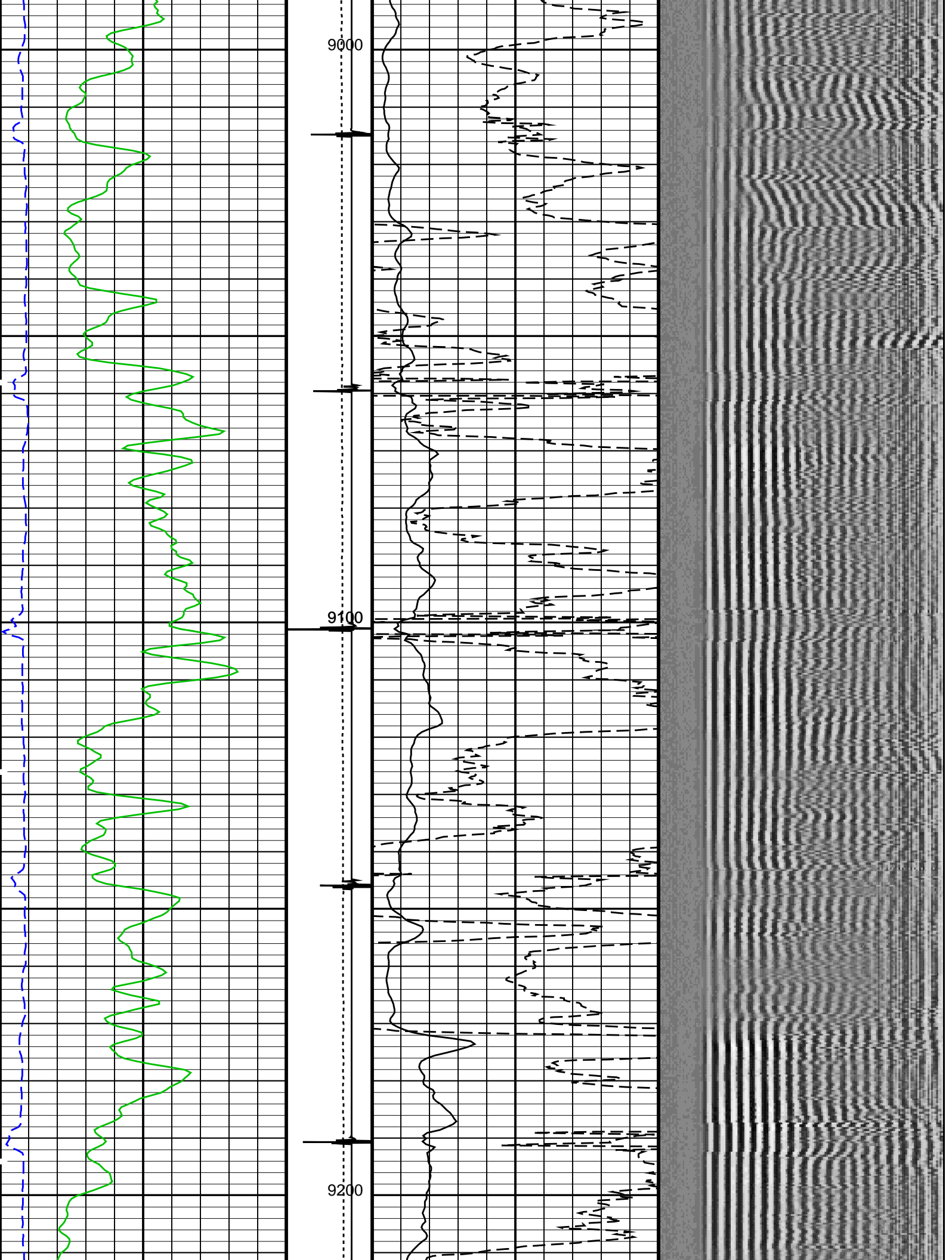


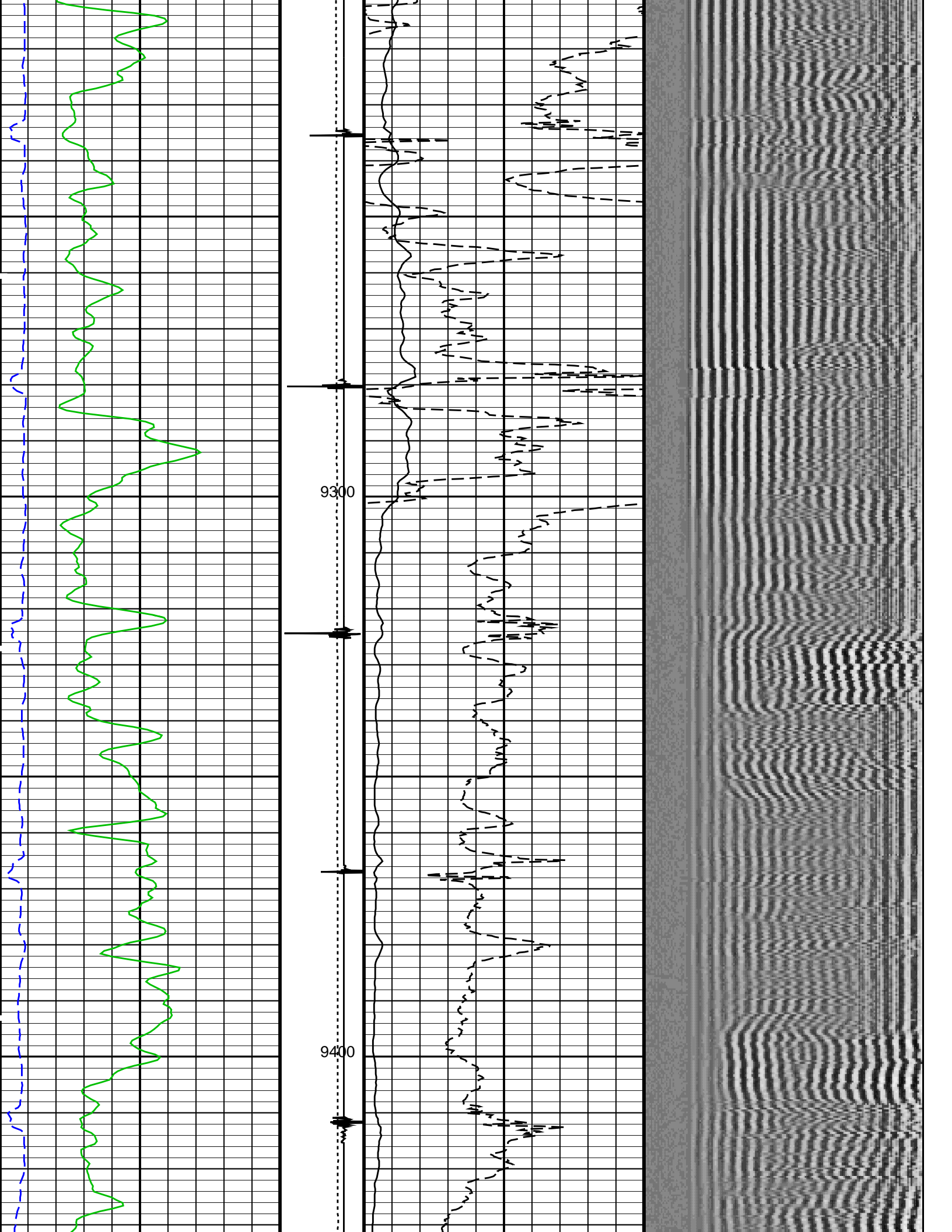




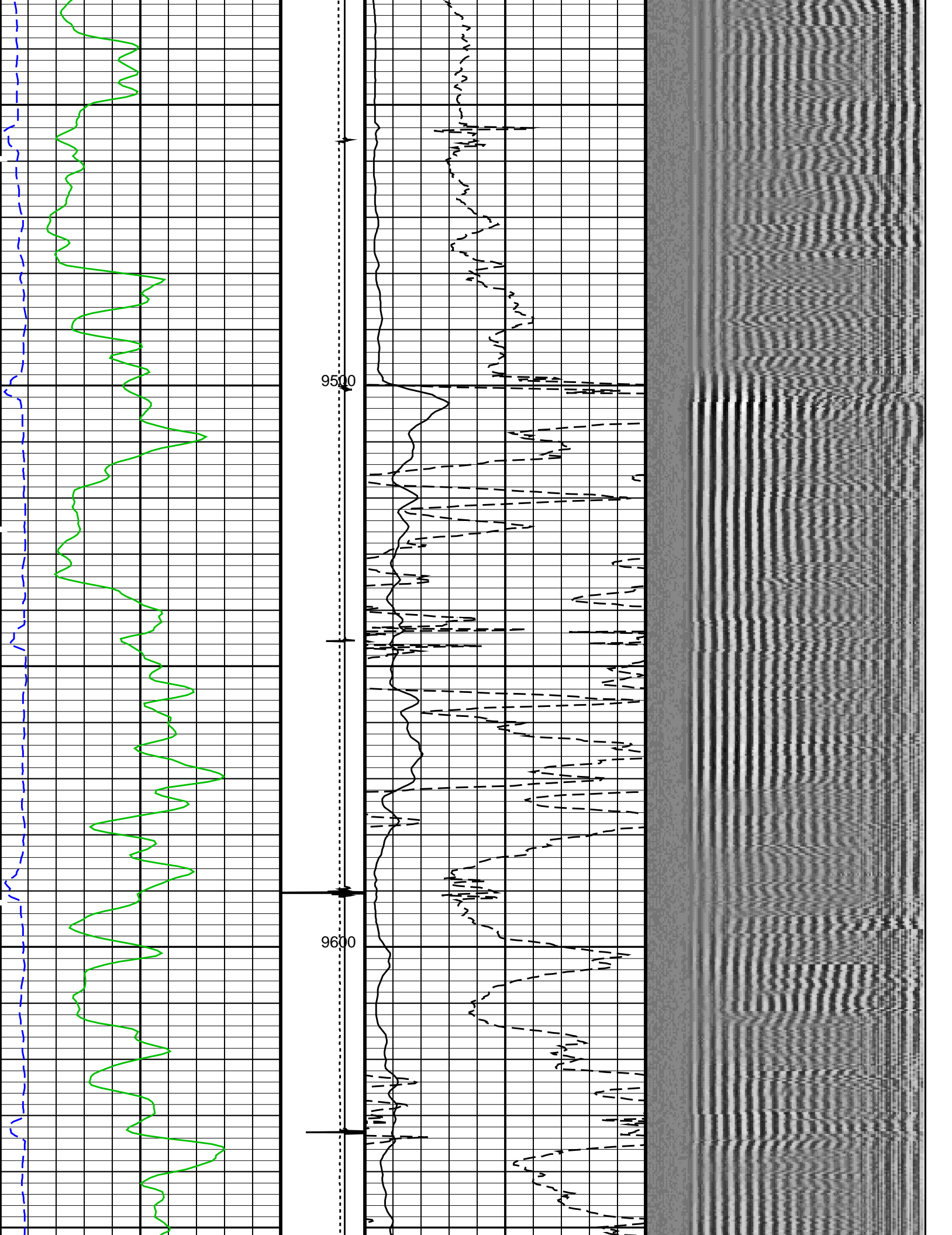


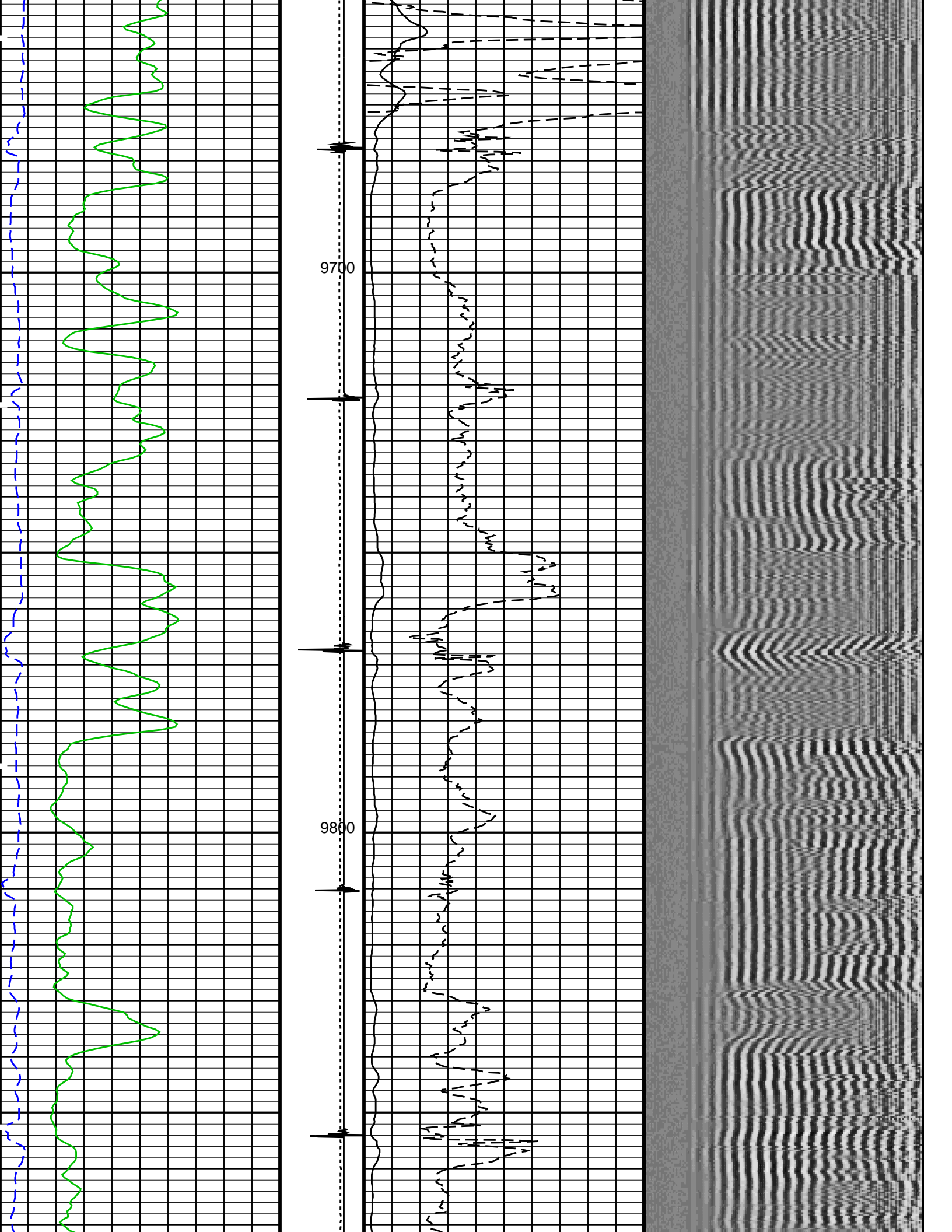




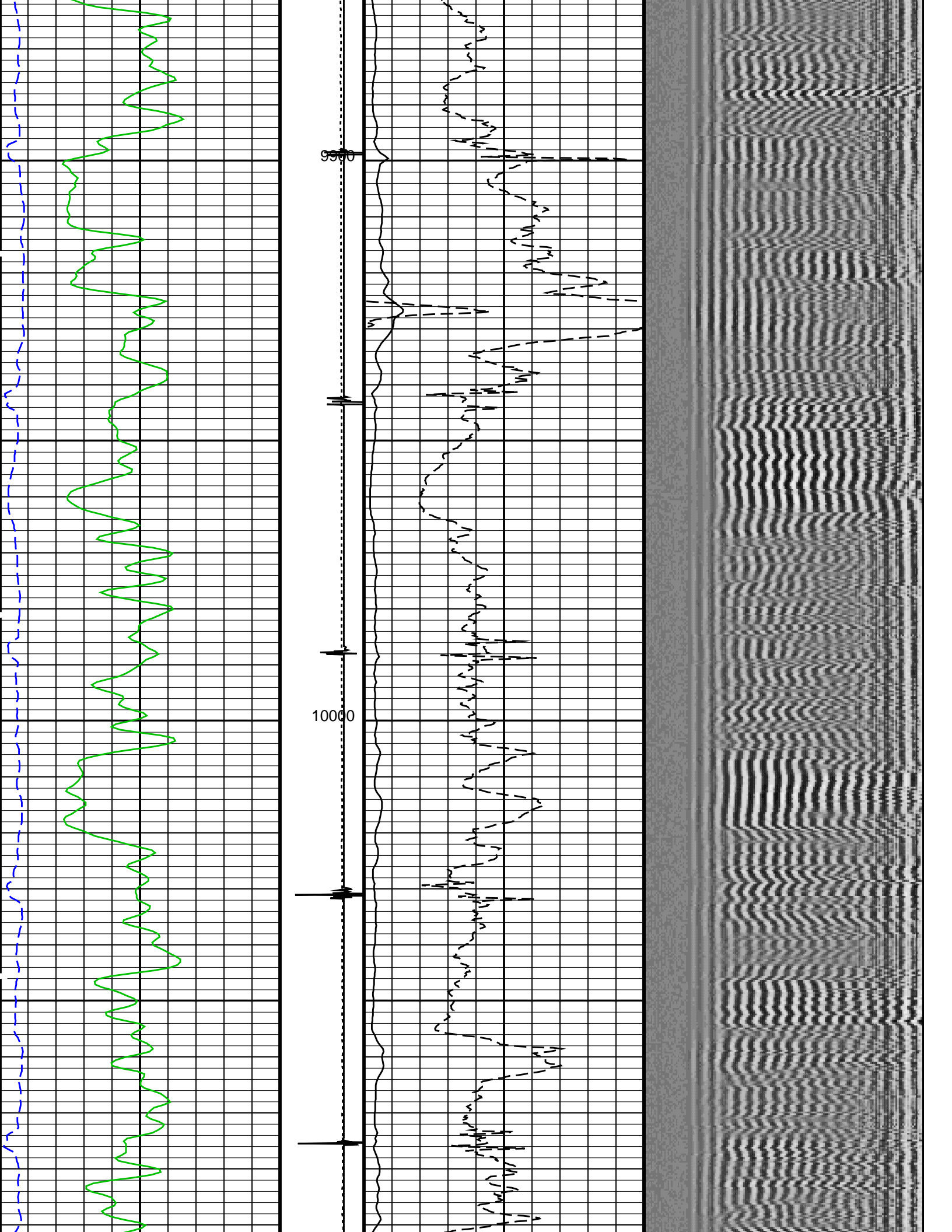


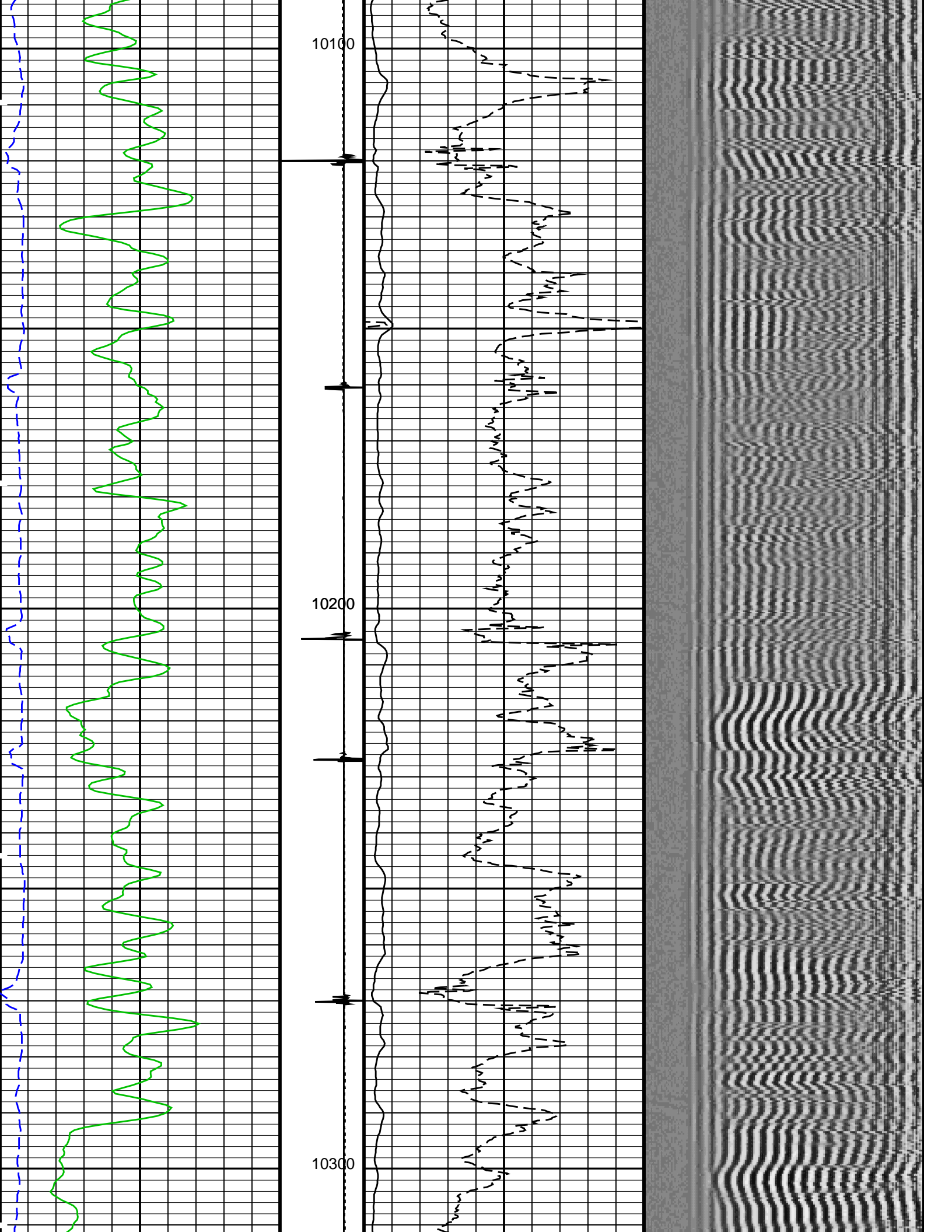


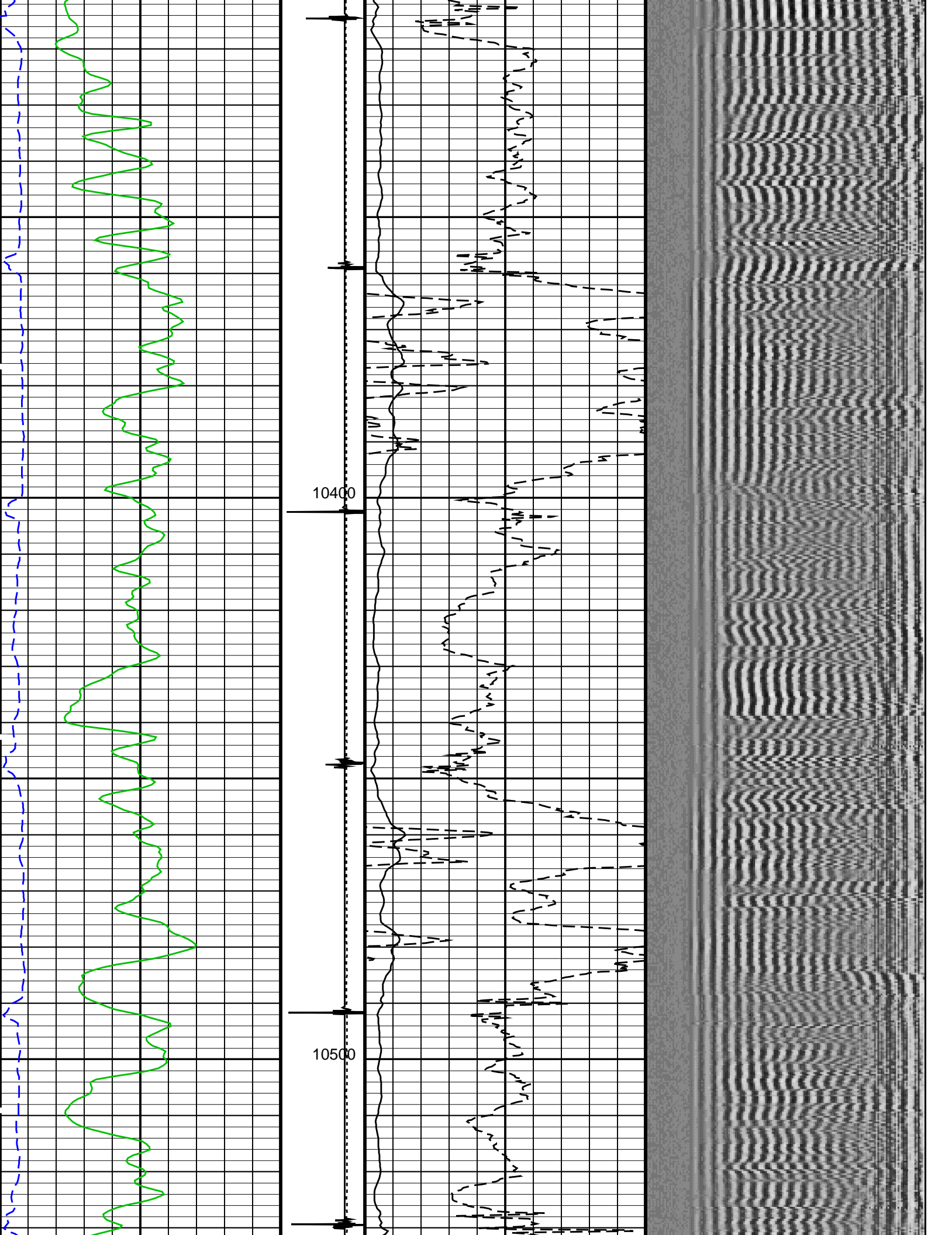




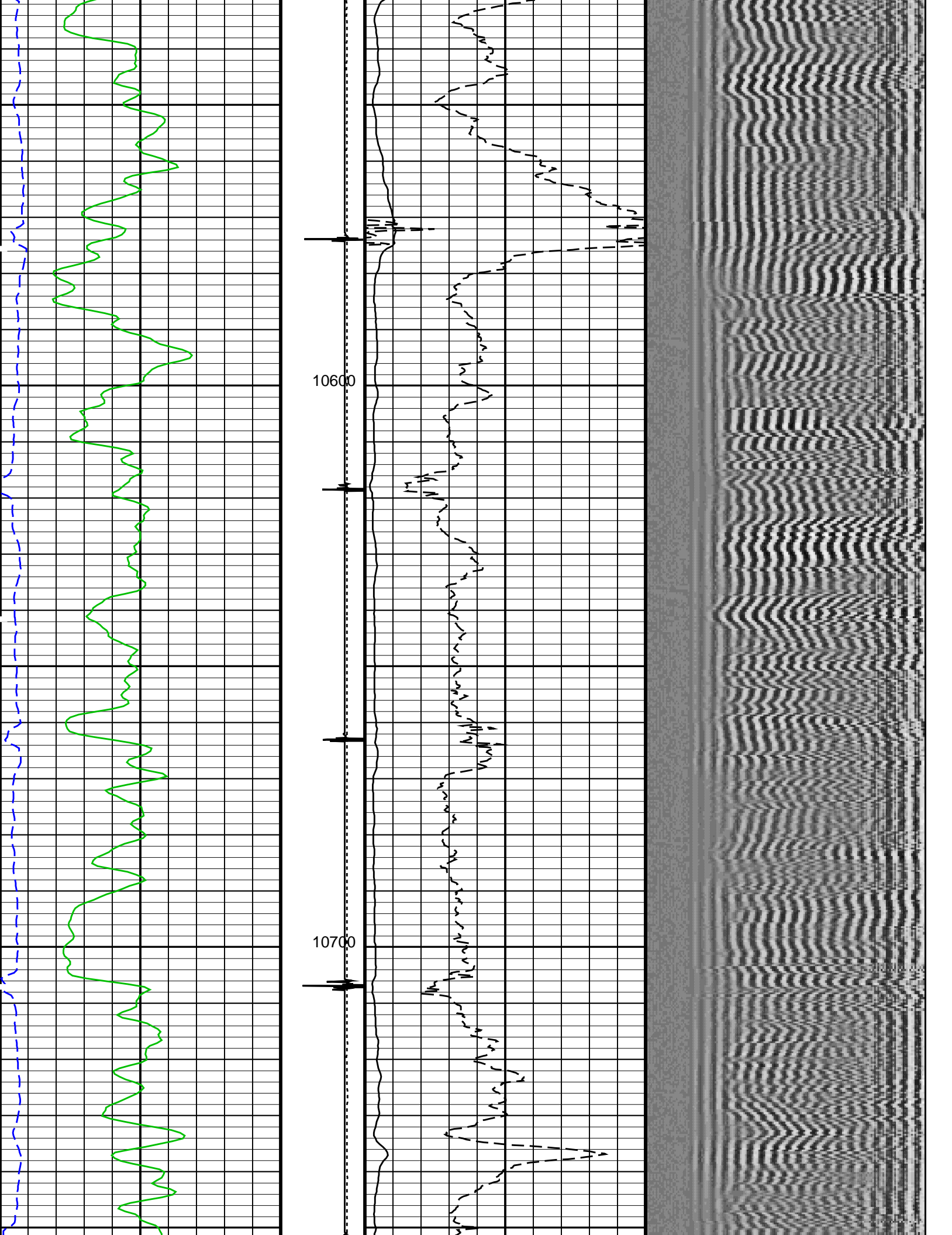


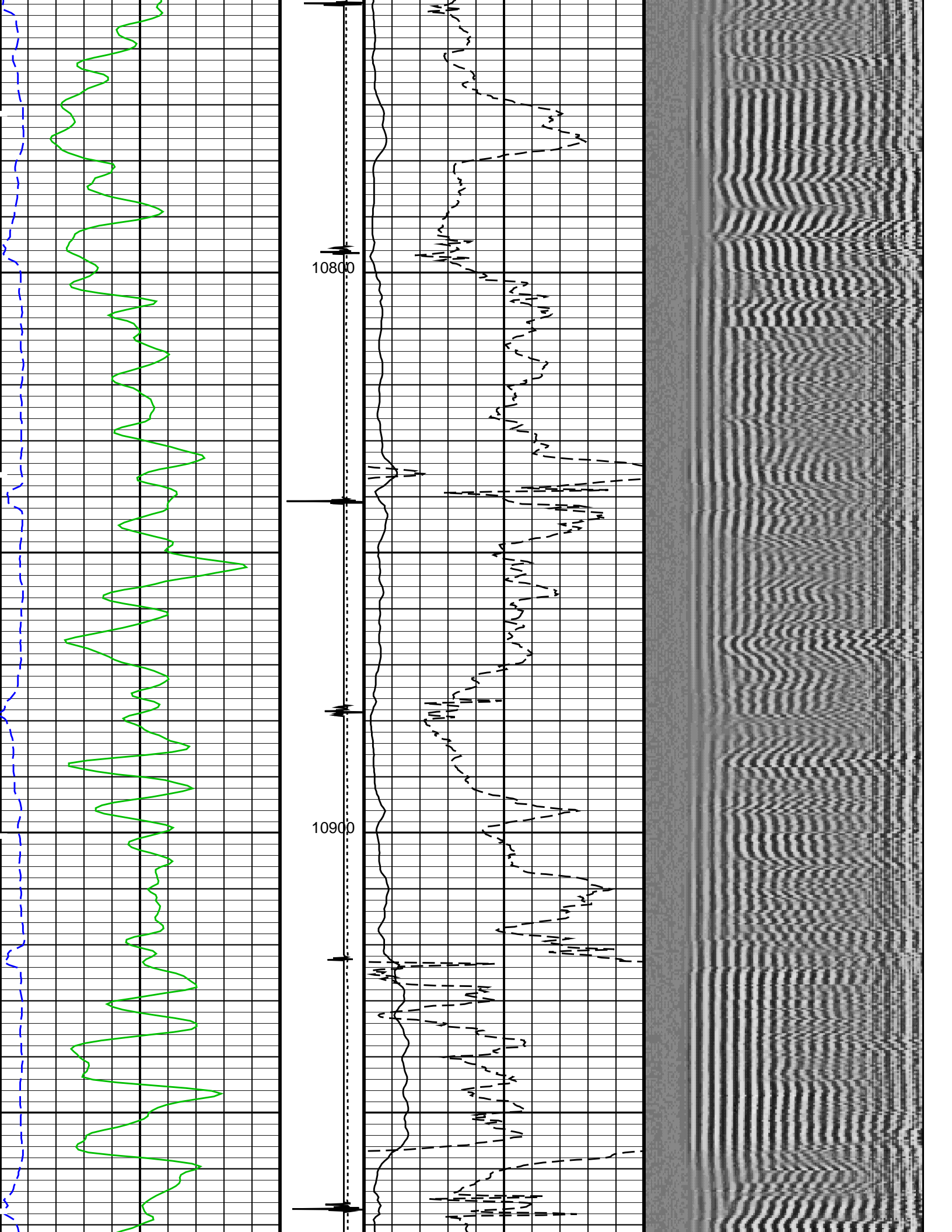




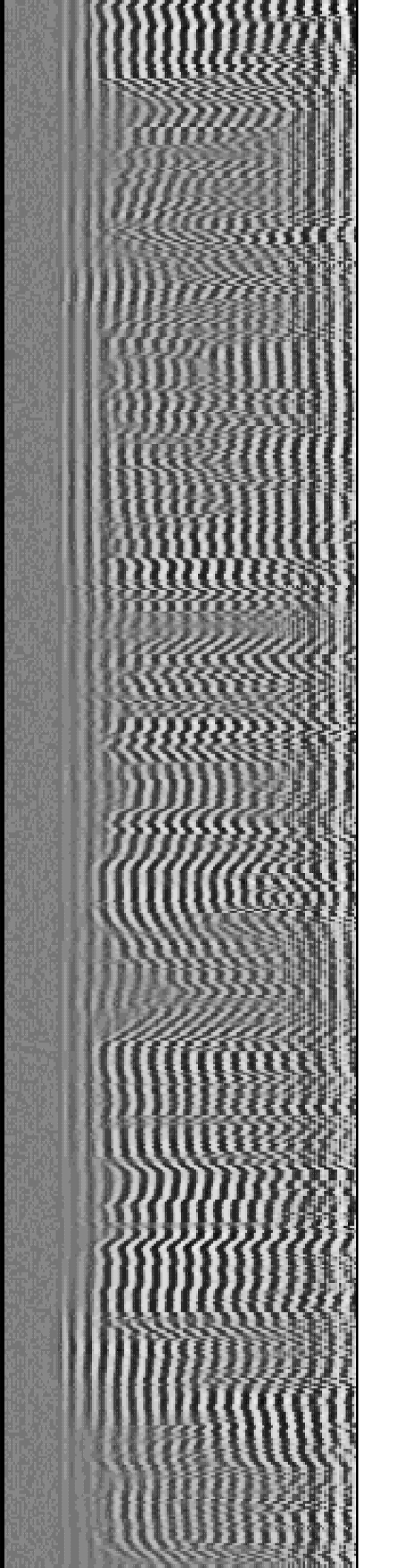
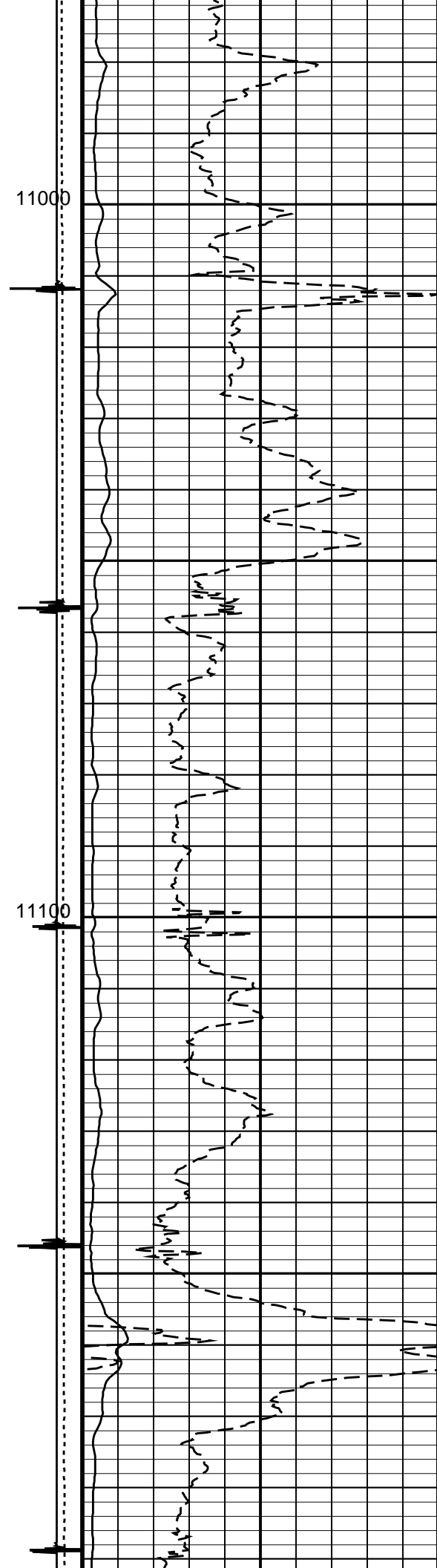
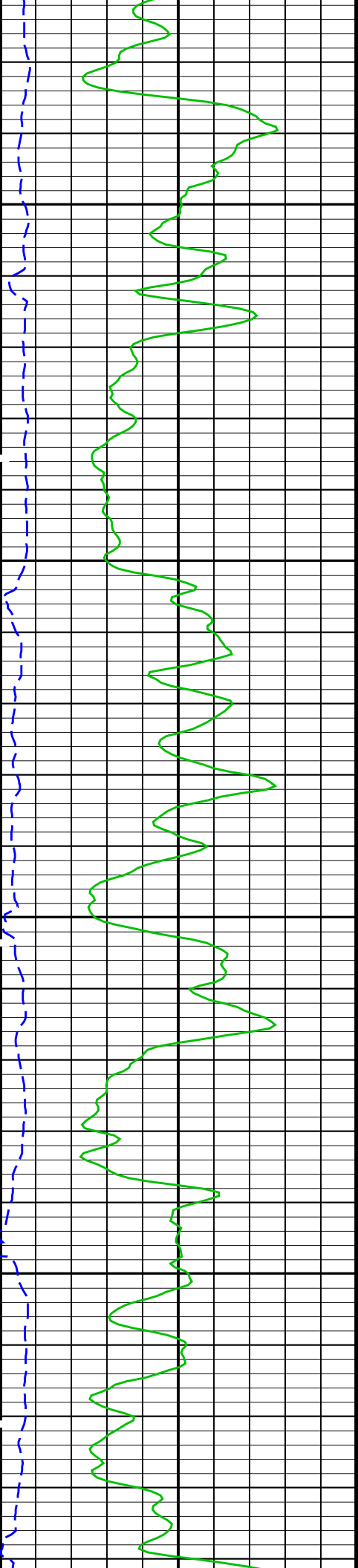


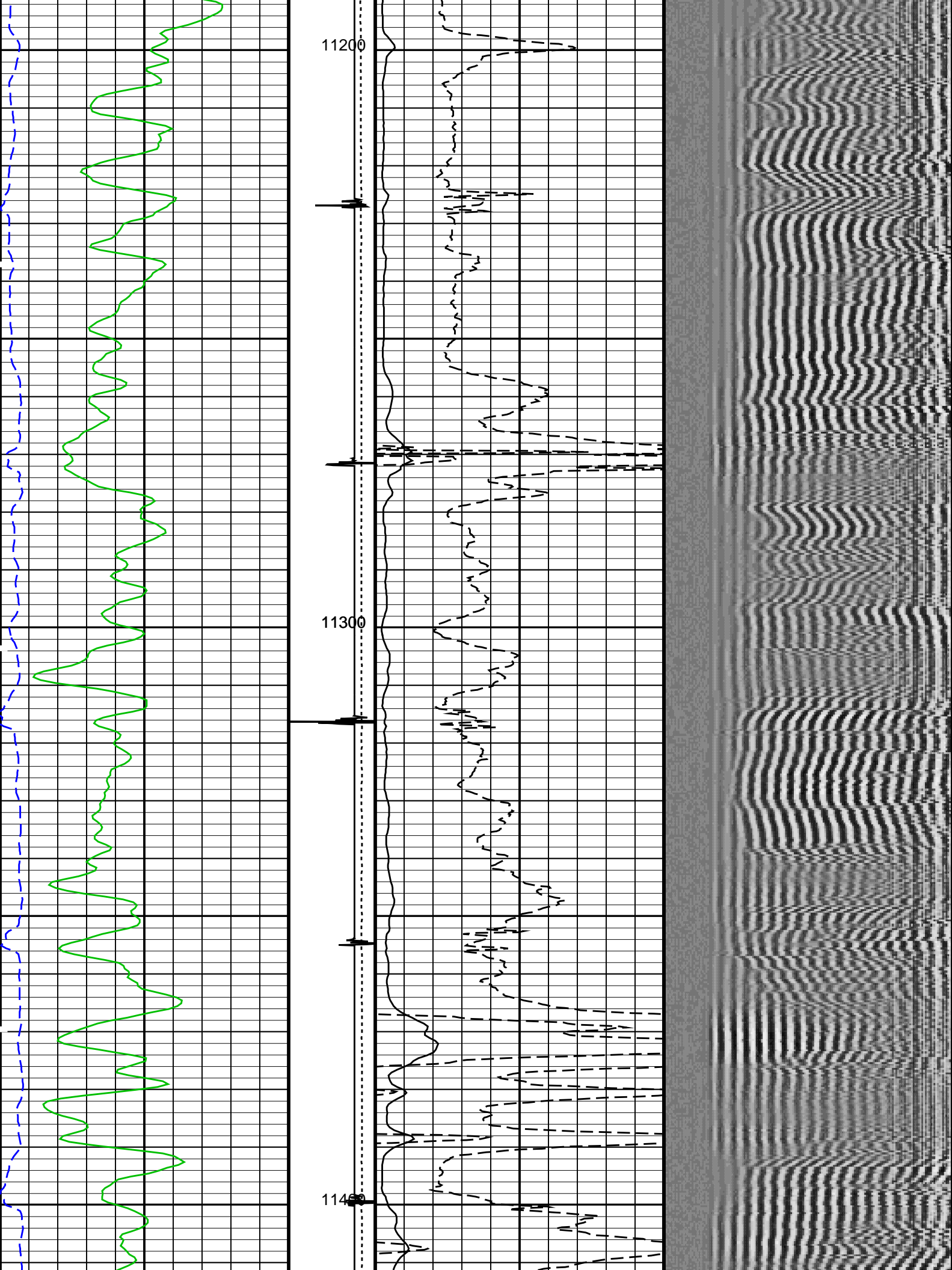


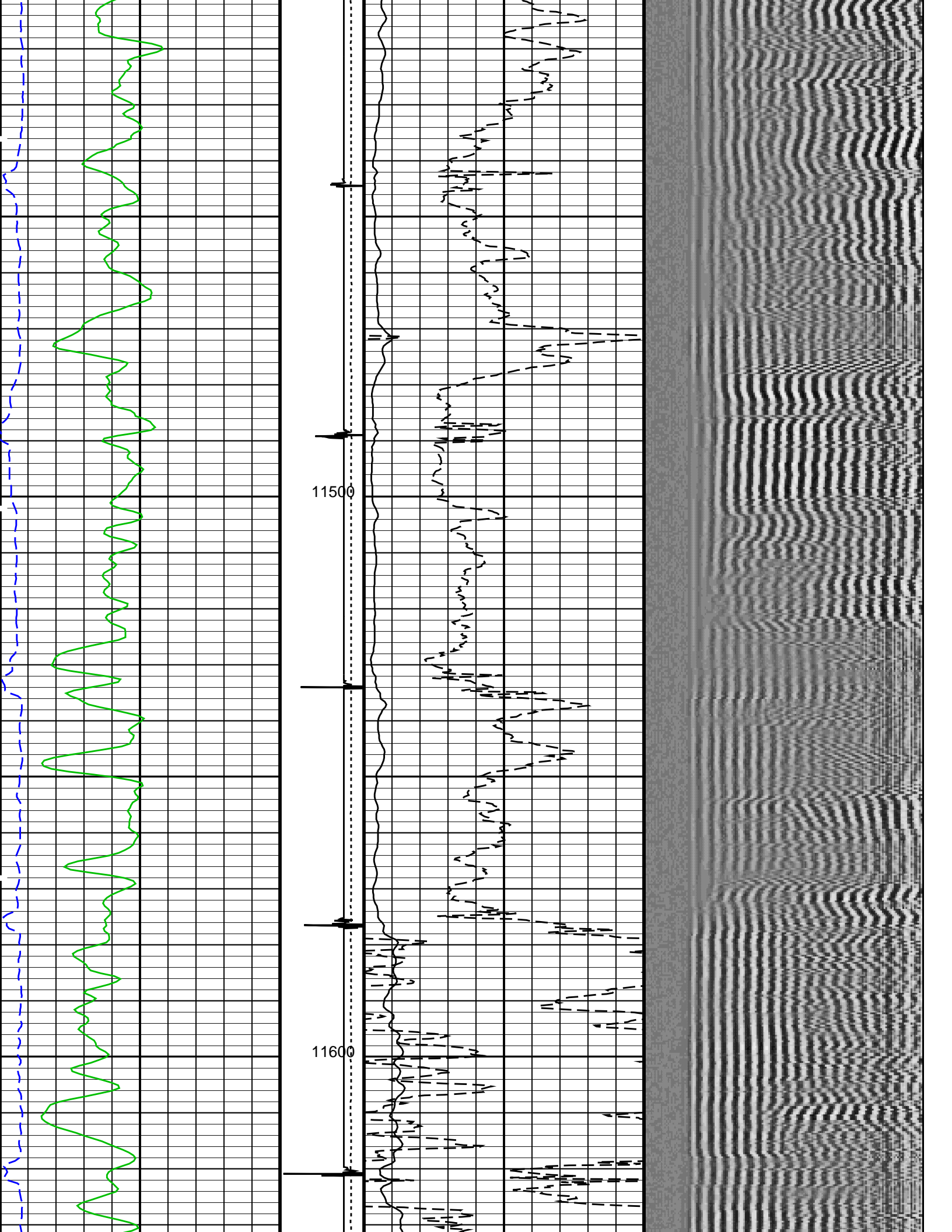


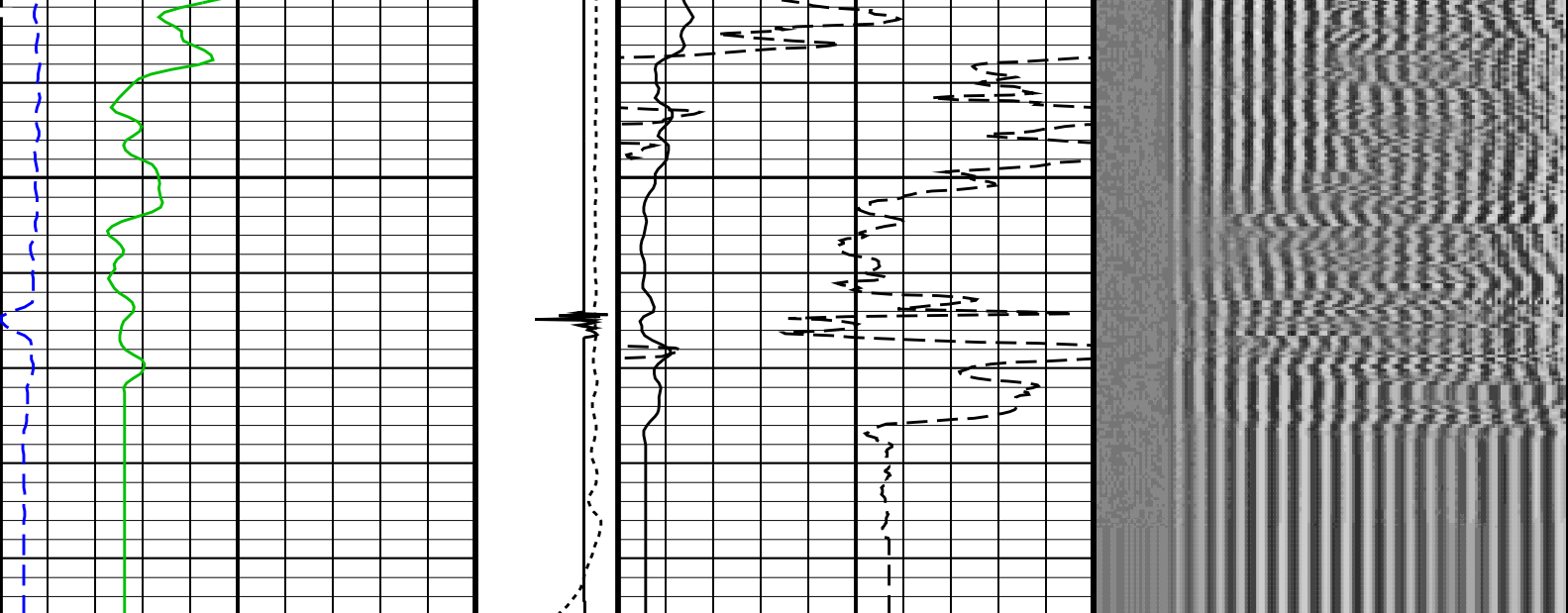












<b>Gamma Ray (GR)</b> <b>(GAPI)</b> 0 150	<b>Tension</b> <b>(TENS)</b> <b>(LBF)</b> 0 2000	<b>CBL Amplitude (CBL)</b> (MV) 0 100	Min Amplitude Max VDL VariableDensity (VDL) (US) 200 1200
<b>Transit Time (TT)</b> <b>(US)</b> 260 160	<b>Discriminat</b> <b>ed CCL</b> <b>(CCLD)</b> 3 (V) -1	<b>CBL Amplitude (CBL)</b> (MV) 0 10	

#### PIP SUMMARY

Time Mark Every 60 S

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

Graphics File Created: 18-Jan-2014 12:24

### OP System Version: 19C2-270

SCMT-CB unofficial PSPT unofficial

#### <<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8150		
Current Casing Size	4.50000 IN		
Casing Weight	11.6000 LB/F		
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.579149 MV (100% Cement) 1.55185 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.32284 MV (100% Cement) 8.10244 MV (80% Cement)
Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	18-JAN-2013		
CBL Correction Factor	0.0714244	CBL Adjustment Factor (CBAF)	0.700000
MAP 1 Correction Factor	0.105729	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0974552		
MAP 3 Correction Factor	0.0933426		
MAP 4 Correction Factor	0.0893609		
MAP 5 Correction Factor	0.0787527		
MAP 6 Correction Factor	0.0753900		
MAP 7 Correction Factor	0.0917553		
MAP 8 Correction Factor	0.0903068		

### 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	224.559	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	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	60	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	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	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	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	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	6.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	11684	FT

### Input DLIS Files

DEFAULT	Splice_SCMT_PSP_042CUP	FN:1	PRODUCER	18-Jan-2014 12:22	11690.0 FT	-9.2 FT
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### Output DLIS Files

DEFAULT	SCMT_PSP_043PUP	FN:40	PRODUCER	18-Jan-2014 12:24
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**Schlumberger**

**REPEAT ANALYSIS CBL VDL**

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC

Well: SG 8503C-34 (E34 496)

### Input DLIS Files

DEFAULT	SCMT_PSP_038LUP	FN:36	PRODUCER	18-Jan-2014 08:35	7611.0 FT	7375.0 FT
DEFAULT	SCMT_PSP_043PUP	FN:40	PRODUCER	18-Jan-2014 12:24	11696.0 FT	-31.0 FT

### Output DLIS Files

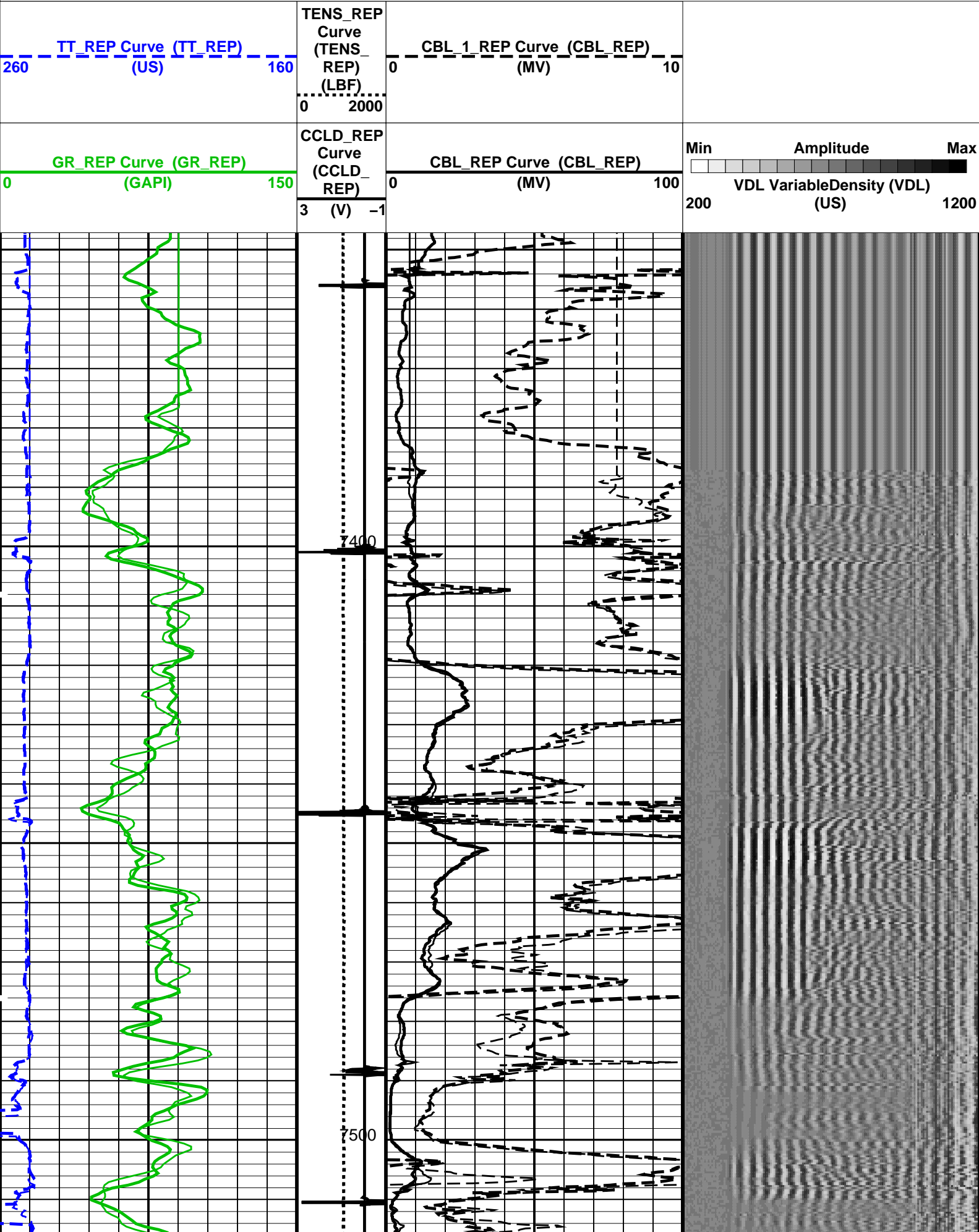
DEFAULT	SCMT_PSP_046PUP	FN:43	PRODUCER	18-Jan-2014 12:34	7611.0 FT	7346.5 FT
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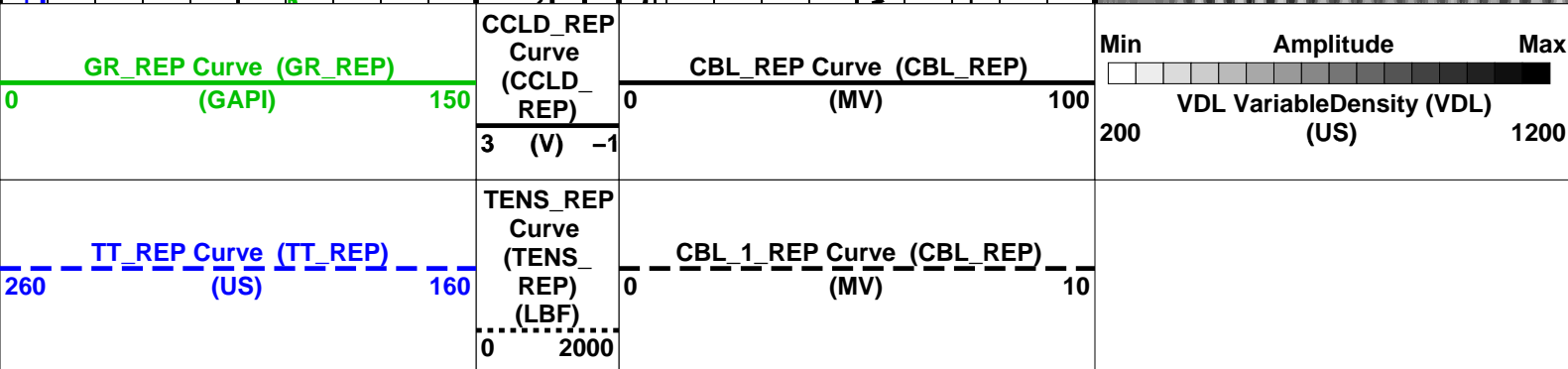
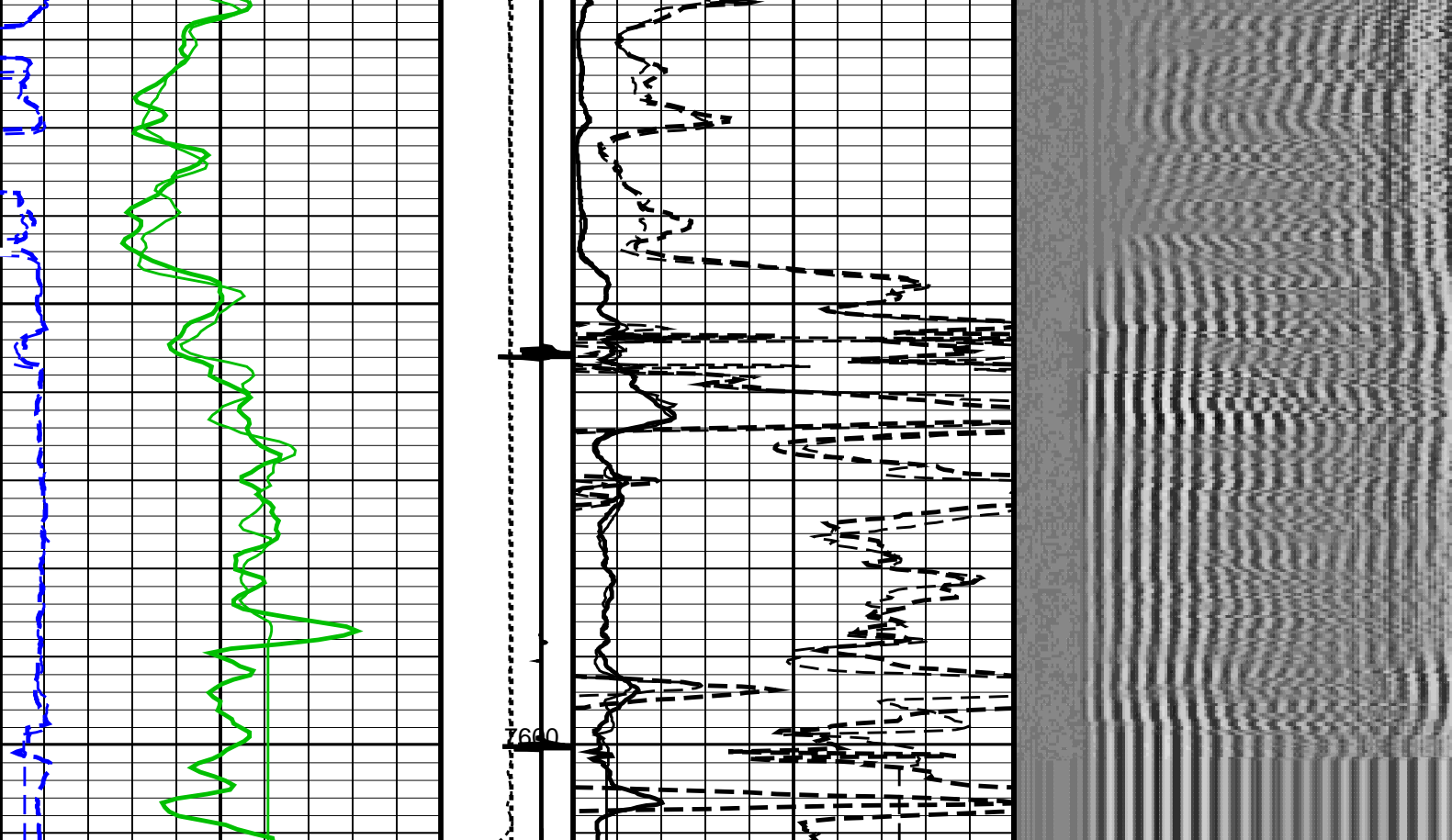
**OP System Version: 19C2-270**



PIP SUMMARY

Time Mark Every 60 S





#### PIP SUMMARY

Time Mark Every 60 S

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

Graphics File Created: 18-Jan-2014 12:34

### OP System Version: 19C2-270

SCMT-CB unofficial PSPT unofficial

#### <<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CB 8150

Current Casing Size 4.50000 IN

Casing Weight 11.6000 LB/F

Expected CBL Amplitude  
in Free Pipe Section 80 MV

Minimum Sonic Amplitude 0.579149 MV (100% Cement)

1.55185 MV (80% Cement)

MAP Minimum Sonic Amplitude 4.32284 MV (100% Cement)

8.10244 MV (80% Cement)

Master Calibration (Normalization)

Before Calibration (Adjustment)

Date of Master Calibration 18-JAN-2013

CBL Correction Factor 0.0714244

CBL Adjustment Factor (CBAF) 0.700000

MAP 1 Correction Factor 0.105729

MAP Adjustment Factor (MPAF) 1.0

MAP 1 Correction Factor	0.105725
MAP 2 Correction Factor	0.0974552
MAP 3 Correction Factor	0.0933426
MAP 4 Correction Factor	0.0893609
MAP 5 Correction Factor	0.0787527
MAP 6 Correction Factor	0.0753900
MAP 7 Correction Factor	0.0917553
MAP 8 Correction Factor	0.0903068

## 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	224.559	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	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	60	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	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	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	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	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	11684	FT

## Input DLIS Files

DEFAULT	SCMT_PSP_038LUP	FN:36	PRODUCER	18-Jan-2014 08:35	7611.0 FT	7375.0 FT
DEFAULT	SCMT_PSP_043PUP	FN:40	PRODUCER	18-Jan-2014 12:24	11696.0 FT	-31.0 FT

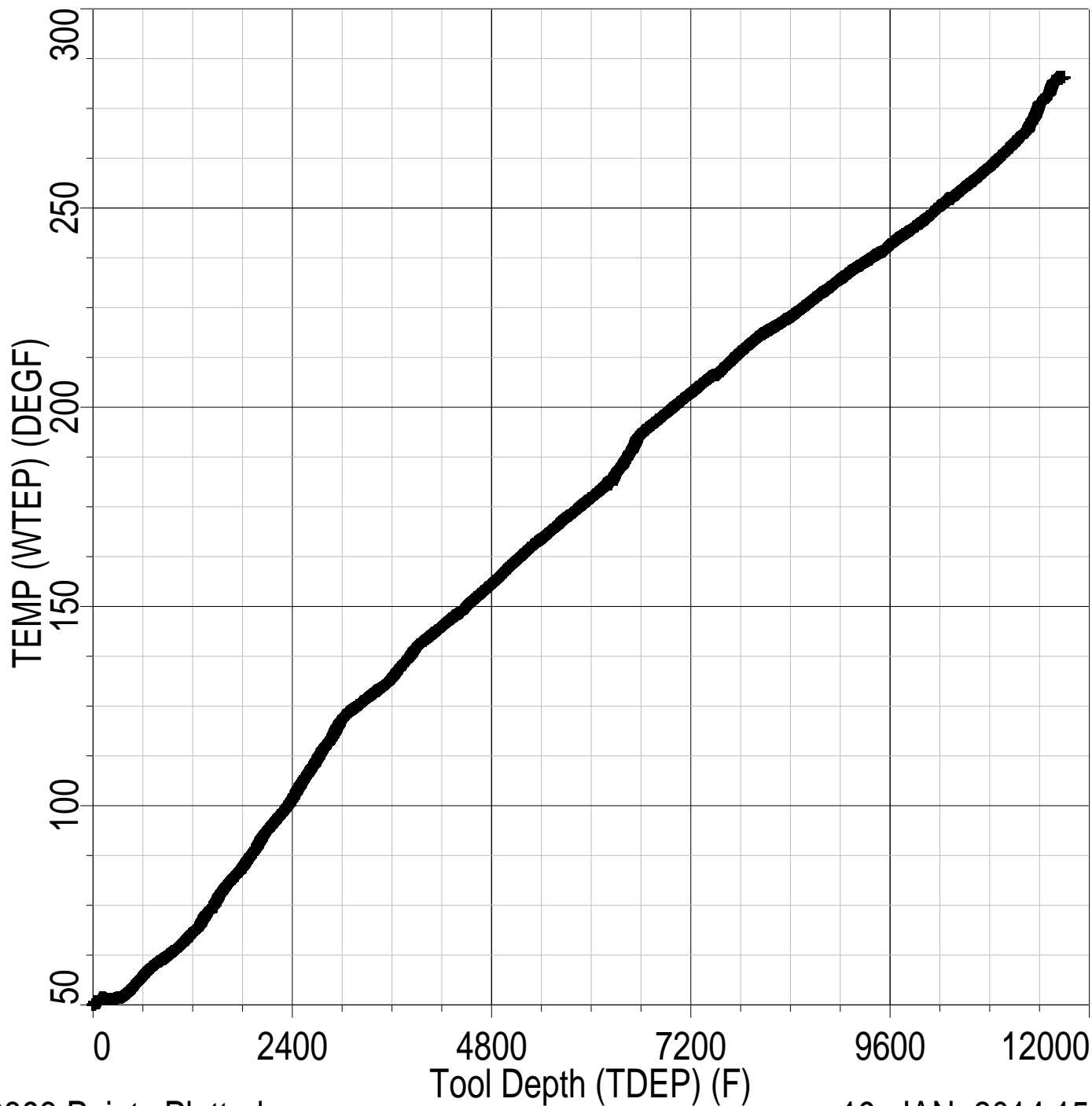
## Output DLIS Files

DEFAULT	SCMT_PSP_046PUP	FN:43	PRODUCER	18-Jan-2014 12:34
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**Schlumberger**

**TEMPERATURE PLOT**

Index: 11696.0 – -31.0 FT



23393 Points Plotted

19-JAN-2014 15:25

**Schlumberger**

**MASTER CALIBRATION**

MAXIS Field Log

Slim Cement Mapping Tool, 1-11/16 OD / Equipment Identification

Primary Equipment:












Slim Cement Mapping Xmitter Electronics  
 Slim Cement Mapping Sonde  
 Slim Cement Mapping Cartridge

SCMX – CA  
 SCMS – CB 8150  
 SCMC – CA 8078

Auxiliary Equipment:  
 Slim Electronics Cartridge Housing

SECH – CA

Slim Cement Mapping Tool, 1–11/16 OD Master Calibration							
SCMT CBL and MAP Amplitude Normalization in SFT–155/–255							
Phase	MAP 1 Amplitude Plus MV		Value	Phase	MAP 2 Amplitude Plus MV		Value
Master			1135	Master			1231
	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)		500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	MAP 3 Amplitude Plus MV		Value	Phase	MAP 4 Amplitude Plus MV		Value
Master			1286	Master			1343
	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)		500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	MAP 5 Amplitude Plus MV		Value	Phase	MAP 6 Amplitude Plus MV		Value
Master			1524	Master			1592
	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)		500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	MAP 7 Amplitude Plus MV		Value	Phase	MAP 8 Amplitude Plus MV		Value
Master			1308	Master			1329
	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)		500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)
Phase	CBL Amplitude Plus MV		Value				
Master			1344				
	1000 (Minimum)	1350 (Nominal)	1700 (Maximum)				
Master: 18–Jan–2013 14:10							

**Schlumberger**

## PBMS COEFFICIENTS

MAXIS Field Log

Client: ENCANA OIL & GAS (USA) INC  
 Field: STORY GULCH  
 Well: SG 8503B–34 (E34 496)  
 Run date: 18–Jan–2014

Tool: PSP  
 Sub Type: PBMS  
 Sensor: GR

PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

RESISTORS FOR GR SENSOR N.33155, TOOL PBMS–BA0861. SENSOR S/N:

33155

220499

Matrix Size 12  
Coeff CRC 0710

GR HV Rt

	Rt**0	Rt**1
Rt**0	+.237000000000e+04	+.332000000000e+04

Client:	ENCANA OIL & GAS (USA) INC	Tool:	PSP
Field:	STORY GULCH	Sub Type:	PBMS
Well:	SG 8503B-34 (E34 496)	Sensor:	WellTemp RTD
Run date:	18-Jan-2014		

PBMS RTD Well Thermometer

Sonde Serial NB COEFFICIENTS FOR RTD THERMOMETER PBMS-B.861 S/N:  
Sensor Serial NB 861  
Calib Date ddmmyy 310502  
Matrix Size 16  
Coeff CRC DEC6

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	-.143179842319E+03	-.888852291415E+02	+.731918491078E+02
	Tt**3	Tt**4	Tt**5
Tt**0	-.118395145374E+02	+.745799453953E+00	0.0

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

861

310502

66

596C

COEFFICIENTS FOR CQG PBMS-B.861 S/N:

Pres Coeff

	Fb**0	Fb**1	Fb**2
Fc**0	+.711550762736E+04	+.153878897800E-01	-.257179234978E-06
Fc**1	-.105337091645E+01	-.125552962261E-04	-.950503832919E-10
Fc**2	+.115225841409E-05	+.490354586520E-10	+.105988949651E-14
Fc**3	+.883393528945E-12	+.665635296961E-16	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0

	Fb**3	Fb**4	Fb**5
Fc**0	-.804211610994E-10	-.705264184158E-15	-.605951709459E-19
Fc**1	+.263504457670E-15	+.366947427014E-19	0.0
Fc**2	0.0	0.0	0.0
Fc**3	0.0	0.0	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

:

861

310502

66

73C2

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+.114909007864E+03	-.261563620571E-03	+.727201308276E-08
Fb**1	-.599411471804E-02	+.192684257496E-07	+.149578546349E-12
Fb**2	-.320292169705E-07	+.373670664357E-12	+.871958109779E-18
Fb**3	-.307852303739E-12	+.927295382637E-17	0.0

Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0
	Fc**3	Fc**4	Fc**5
Fb**0	+.182108938515E-12	-.195543095905E-16	-.228467332529E-20
Fb**1	-.413038704885E-17	-.706757563488E-21	0.0
Fb**2	0.0	0.0	0.0
Fb**3	0.0	0.0	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0

#### PBMS Quartz Gauge type F

Sonde Serial NB :  
 Sensor Serial NB 861  
 Calib Date ddmmyy 310502  
 Matrix Size 16  
 Coeff CRC C7E9

#### Clock Freq Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+.310508075363E+05	+.294368299940E-02	+.769893562204E-06
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	-.664433457831E-10	-.367102372803E-16	-.149627163753E-19

#### PBMS Quartz Gauge type F

Sonde Serial NB :  
 Sensor Serial NB 861  
 Calib Date ddmmyy 310502  
 Matrix Size 16  
 Coeff CRC 57FD

#### Clock Temp Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+.117831722096E+03	-.563036688315E-02	-.289752074861E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	+.424868386643E-12	-.842142459987E-16	+.376543844967E-20



Well: **SG 8503C-34 (E34 496)**  
Field: **STORY GULCH**  
County: **GARFIELD**  
State: **COLORADO**

SLIM CEMENT MAPPING LOG  
CCL – GAMMA RAY – TEMPERATUR