



Company: **ENCANA OIL & GAS (USA) INC.**

Well: **FEDERAL 36-1H (ON1)**

Field: **HORSETHIEF CREEK**

County: **GARFIELD** State: **COLORADO**

County: GARFIELD

Field: HORSETHIEF CREEK

Location: SHL: 354' FSL & 2081' FWL

Well: FEDERAL 36-1H (ON1)

Company: ENCANA OIL & GAS (USA) INC.

CEMENT BOND LOG

CBL- VDL

GAMMA RAY - CCL

SHL: 354' FSL & 2081' FWL

Elev.: K.B. 5415.00 ft
G.L. 5393.00 ft
D.F. 5415.00 ft

Permanent Datum: GROUND LEVEL

Elev.: 5393.00 ft

Log Measured From: KELLY BUSHING

22.00 ft above Perm. Datum

Drilling Measured From: KELLY BUSHING

API Serial No. 05-045-20792-0000

Section 1

Township 8S

Range 97W

Logging Date	26-Sep-2011			
Run Number	3			
Depth Driller	16658 ft			
Schlumberger Depth	9146 ft			
Bottom Log Interval	9138 ft			
Top Log Interval	200 ft			
Casing Fluid Type	WATER			
Salinity				
Density	8.4 lbm/gal			
Fluid Level	22 ft			
BIT/CASING/TUBING STRING				
Bit Size	6.750 in			
From	22 ft			
To	16658 ft			
Casing/Tubing Size	5.000 in			
Weight	23.2 lbm/ft			
Grade	P-110			
From	22 ft			
To	16637 ft			
Maximum Recorded Temperatures	261 degF			
Logger On Bottom	26-Sep-2011	Time	9:35	
Unit Number	391	Location	GRAND JUNCTION	
Recorded By	DAVID PATE			
Witnessed By	UNATTENDED			

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			
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: 26-SEP-2011 11:23:16

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JA	Type:	CMTD-C	Type:	1-25ZT
Serial Number:	6322	Serial Number:	5006	Serial Number:	391
Calibration Date:	07-APR-2011	Calibration Date:	01-SEP-2011	Length:	14500 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	174878	Conveyance Method:	Wireline
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-6	Calibration RMS:	5		
Wheel Correction 2:	-5	Calibration Peak Error:	13		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	PLATFORM EXPRESS
Reference Log Run Number:	2
Reference Log Date:	07-AUG-2011
Subsequent Trip Down Log Correction:	2.00 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES FOLLOWED.
2. IDW USED AS PRIMARY DEPTH CONTROL.
3. Z-CHART USED AS SECONDARY DEPTH CONTROL.
- 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: SIGMA	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
THIS LOG CORRELATED TO PLATFORM EXPRESS RAN BY SCHLUMBERGER ON 7-AUG-2011.	
TOOL RAN AS PER TOOL SKETCH.	
TD NOT TAGGED: 9146 FT	
MAXIMUM RECORDED PRESSURE AT TD: 3658 PSIA	
MAXIMUM RECORDED TEMPERATURE AT TD: 261 DEGF	

SHORT JOINTS: 5260 FT & 8110 FT

CYCLESKIPPING DUE TO GOOD BOND CAUSING TT TO READ HIGH

EXPECTED FREE PIPE AMPLITUDE: 79 mA.



AFE: 10144262

THANK YOU FOR CHOOSING SCHLUMBERGER.

CREW: DAVID P., WALEED A. AND JARED R.

RUN 1			RUN 2		
SERVICE ORDER #:		BIHS-00159	SERVICE ORDER #:		
PROGRAM VERSION:		19C0-187	PROGRAM VERSION:		
FLUID LEVEL:		22 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
WITM-A 3412 PSC_16MHZ 3412			
DOWNHOLE EQUIPMENT			
MH-22 MH-22 391			53.4
Detail MT TelStatus CTEM			51.8
PSPT			51.5
PSC-A PSPT-A PSTC-A 1921 PBMS-A 3779 10k_Sapphire_Mano RTD_Thermometer GR	GR		47.8
Well_Temp Manometer CCL PBMS 3779 PBMS PSTC			44.7 44.6 44.0 43.2
RST-C RSCH-A 429 RSC-E RSS-A 378 RSXH-A 436 RSX-E			43.2
RSC-A Far RSC-A PNG RSC-A Nea RSX-A PNG			34.1 33.6

SCMT-CB
SCMC-CA 8172
SECH-CA 8172
CMIR-AG 8024
SCMS-CB 8186
SCMX-CA 8186

20.2

DT 11.1
CBL5 DTSC 9.6
CBL3 8.6
MAP 8.1
AUX 7.1

20.2
0.2
AH-BNS
Tension SCMT
HV
TOOL ZERO
0.0

MAXIMUM STRING DIAMETER 1.72 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN PASS 0 PSI

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC. Well: FEDERAL 36-1H (ON1)

Input DLIS Files

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Output DLIS Files

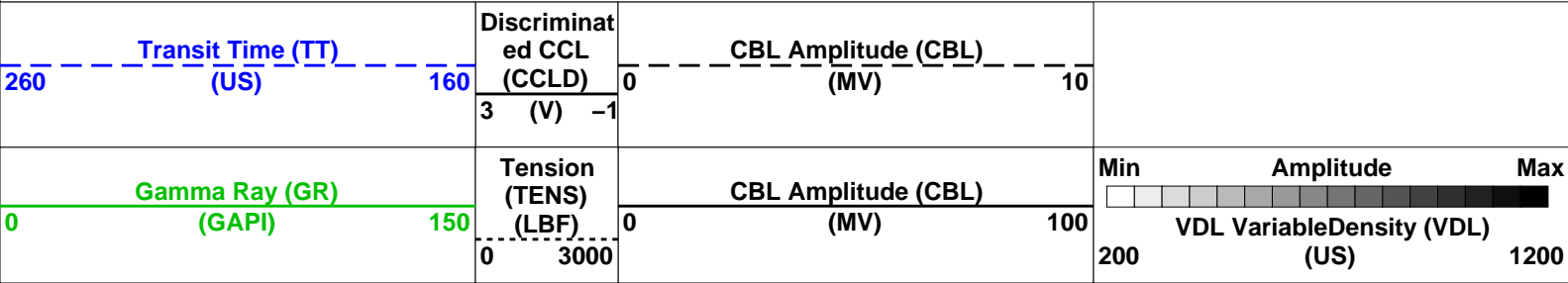
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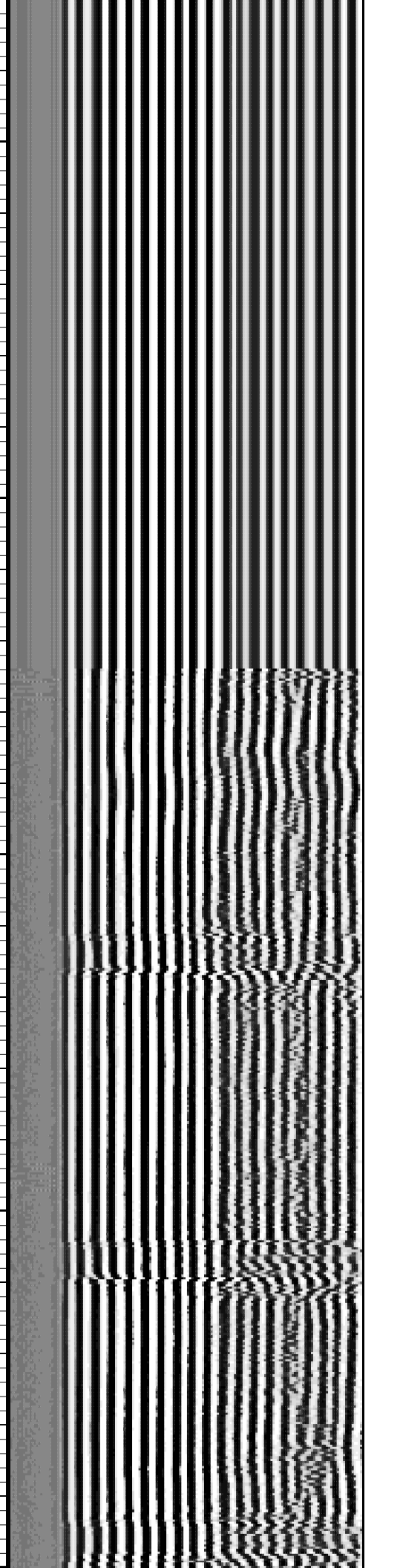
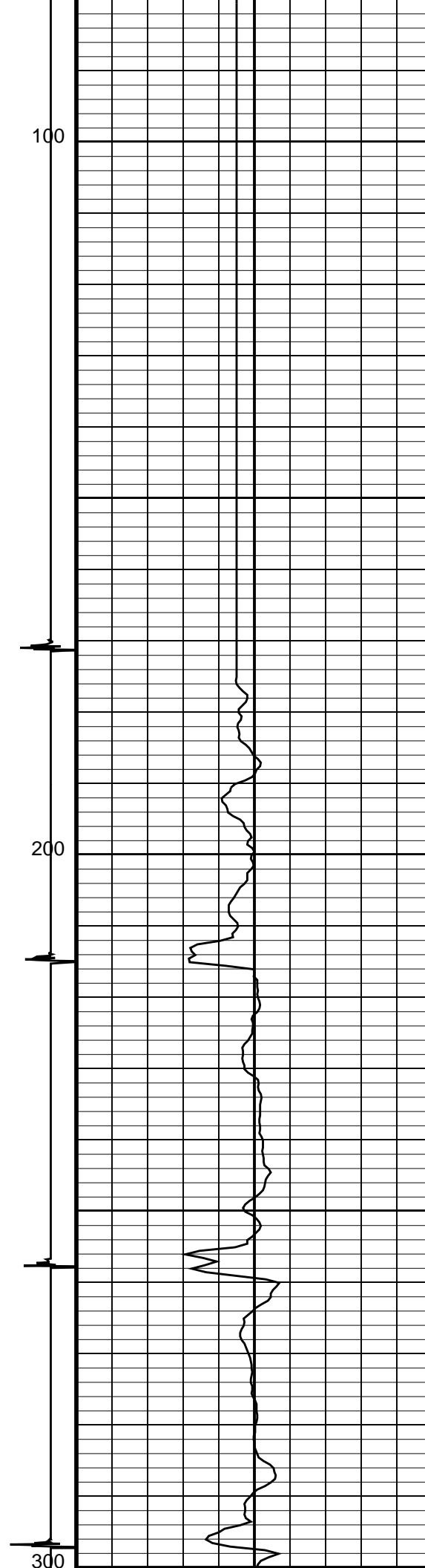
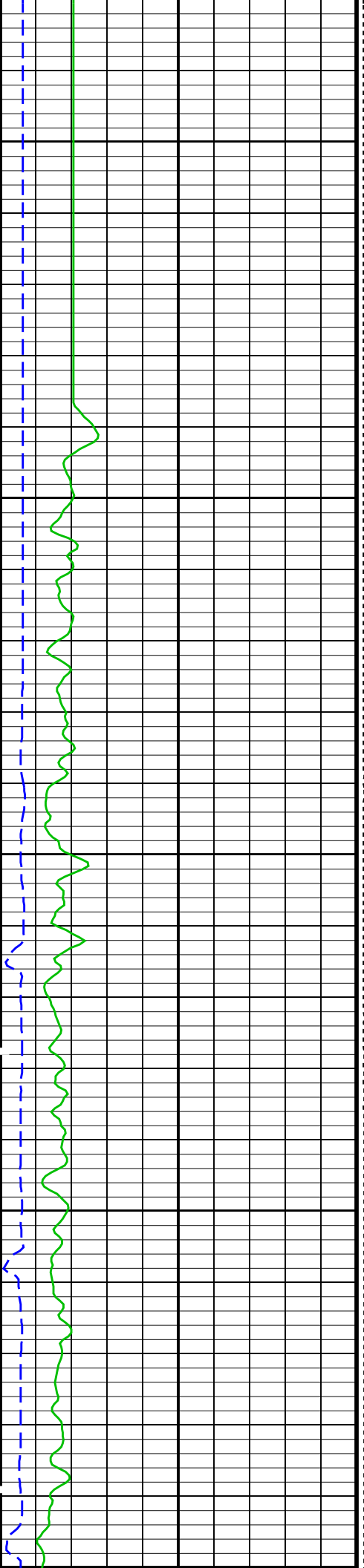
OP System Version: 19C0-187

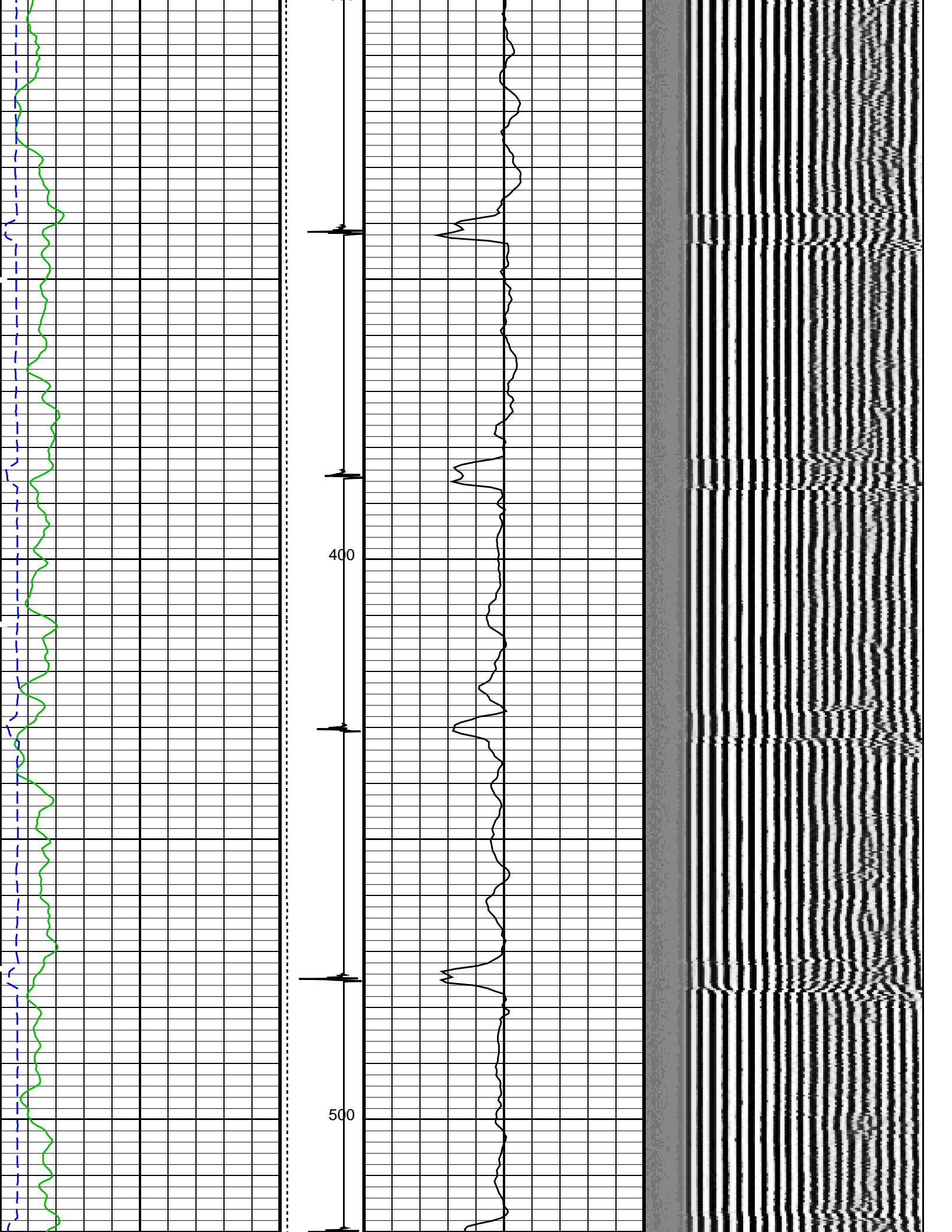
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PSPT 19C0-187

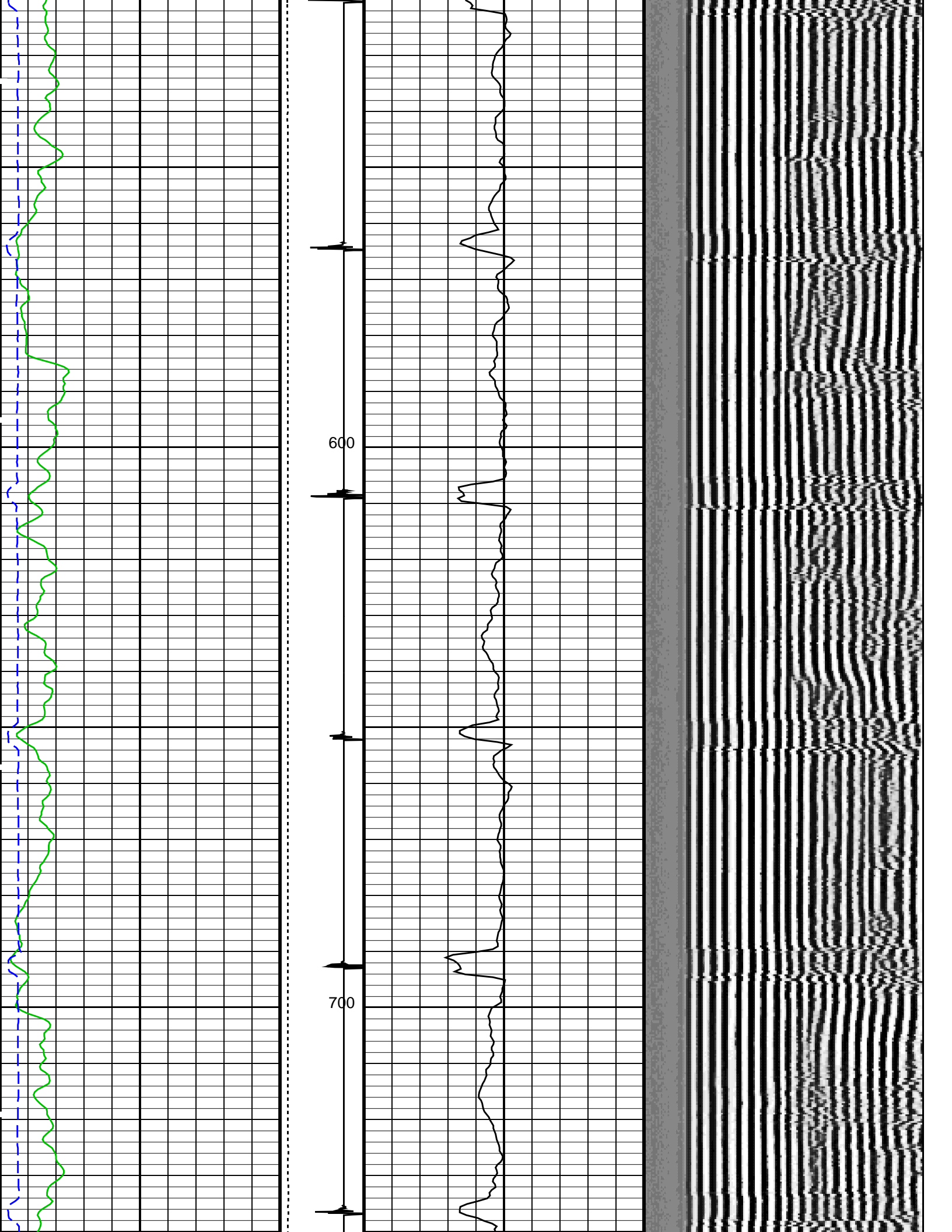
PIP SUMMARY

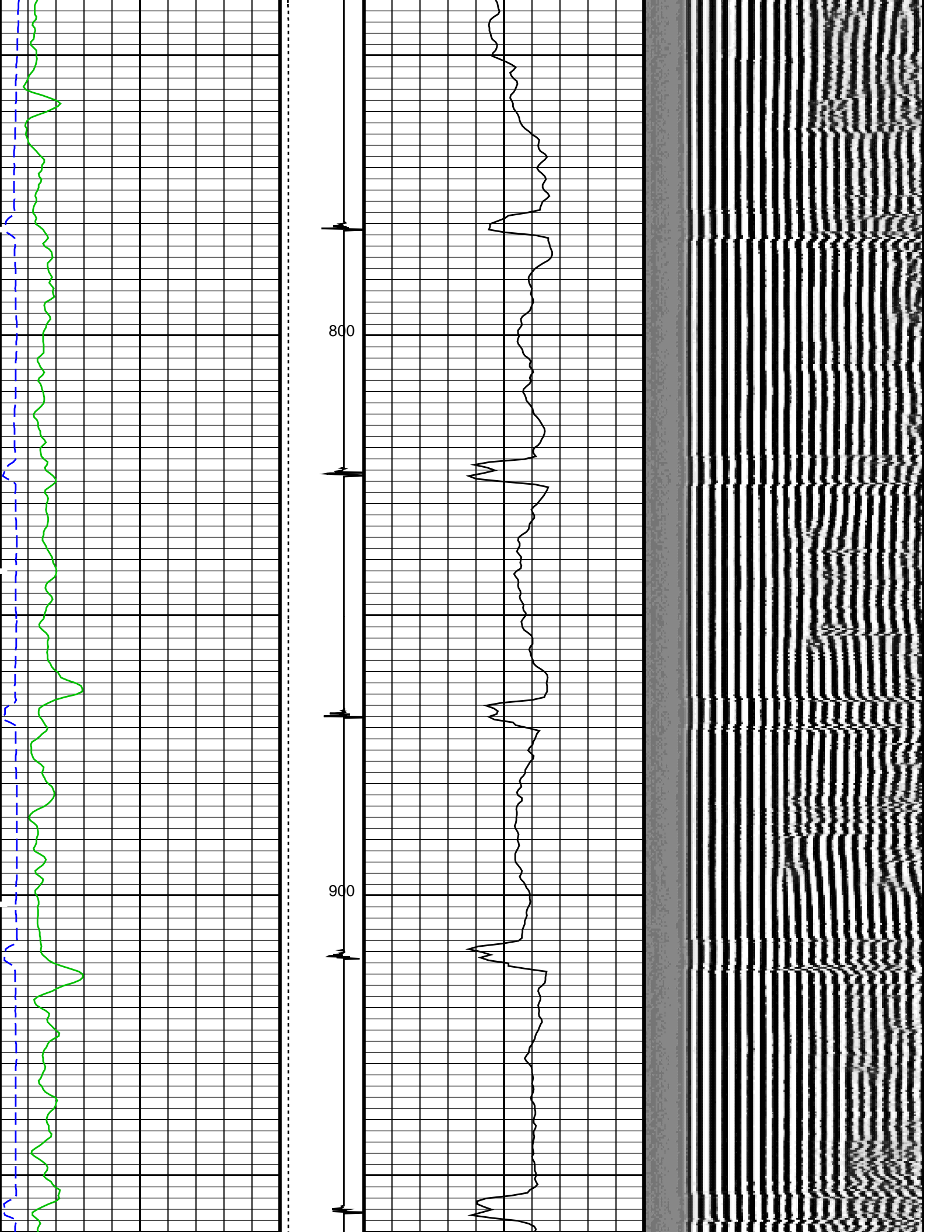
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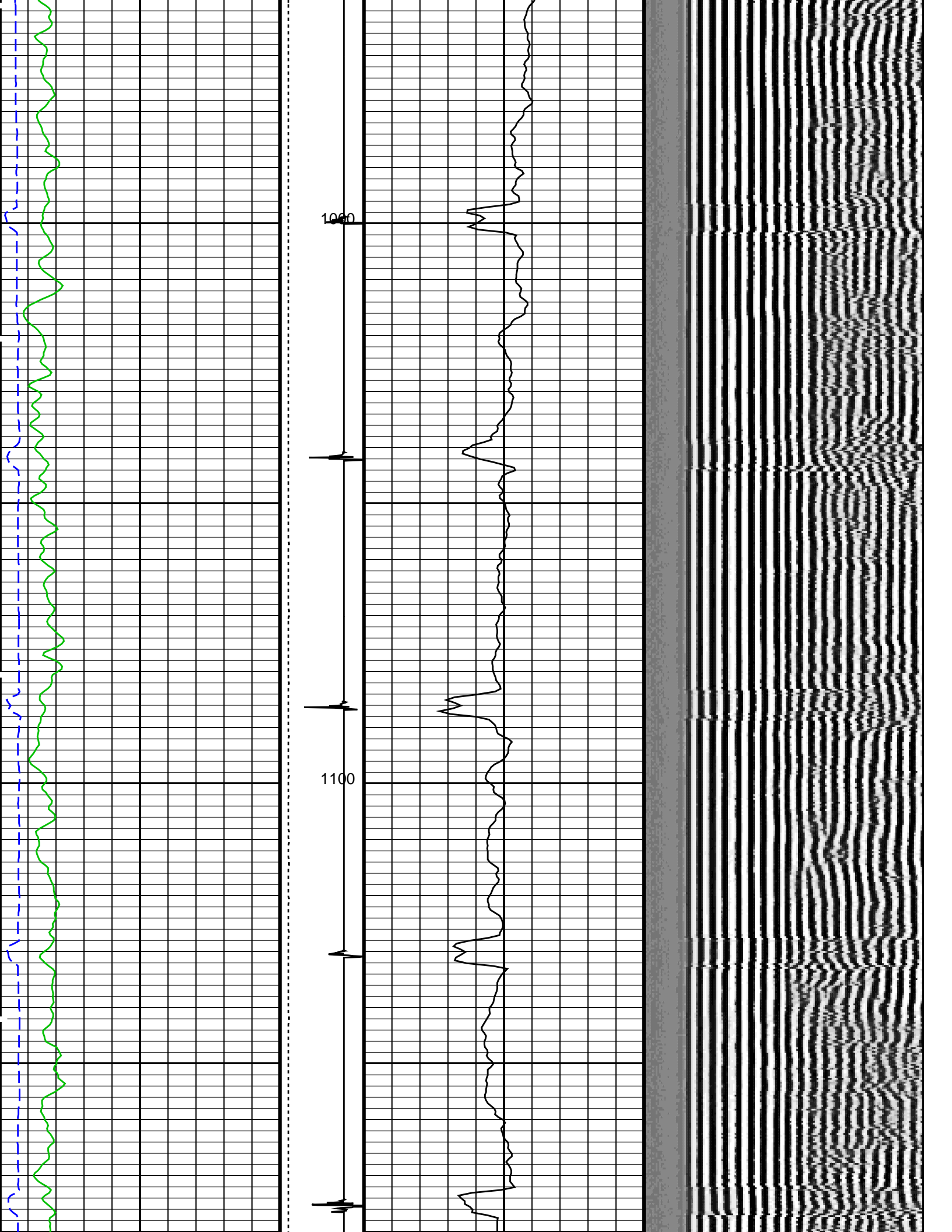


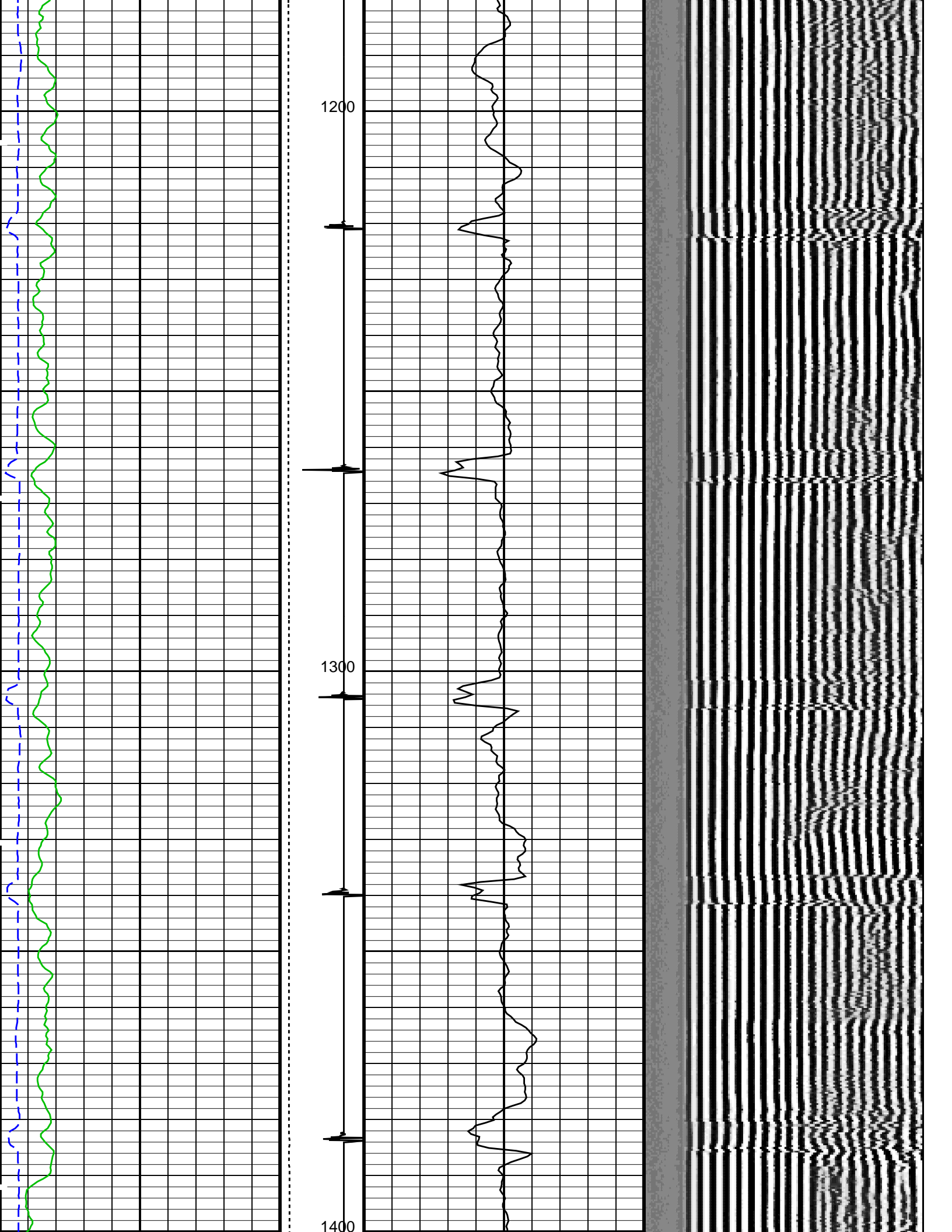


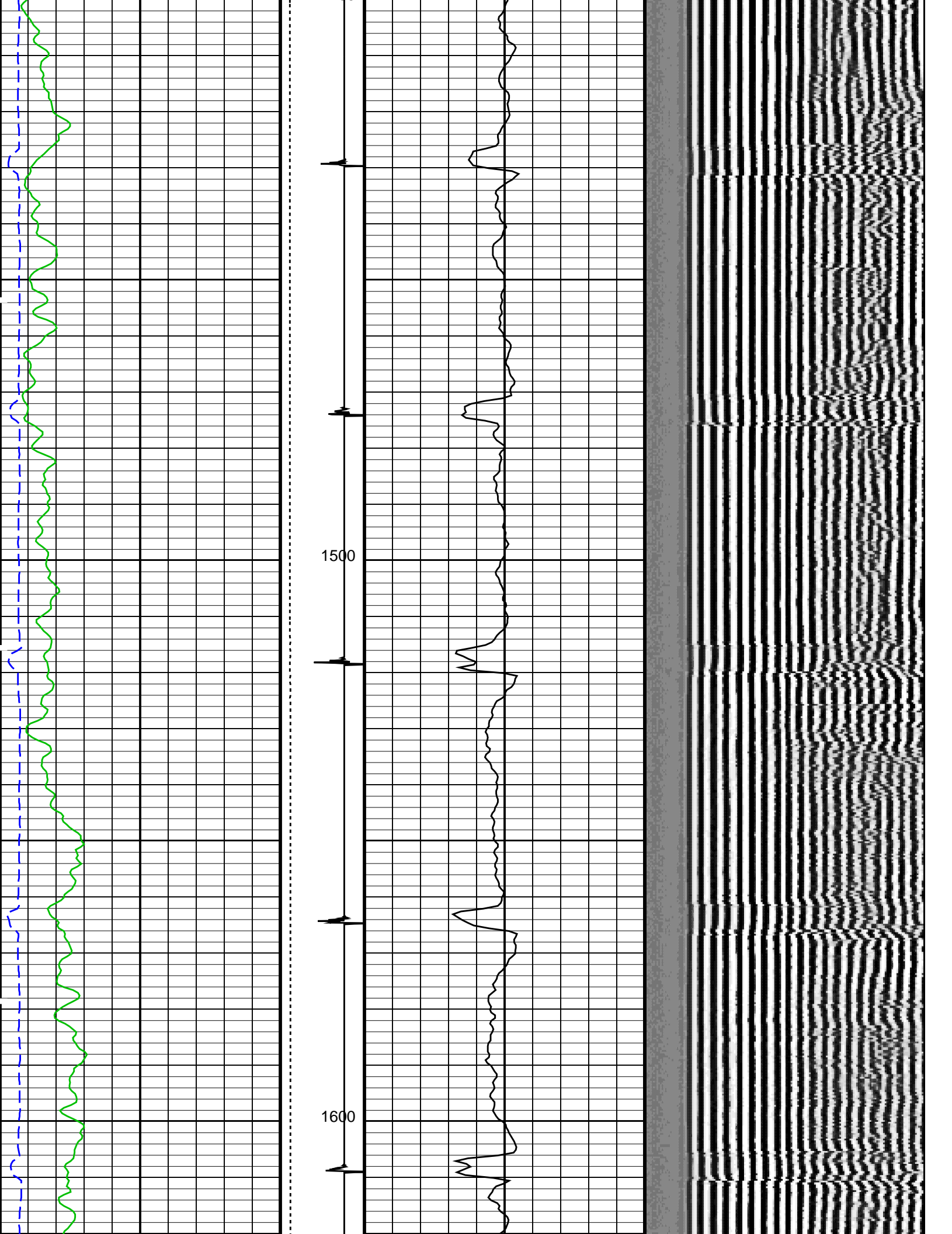


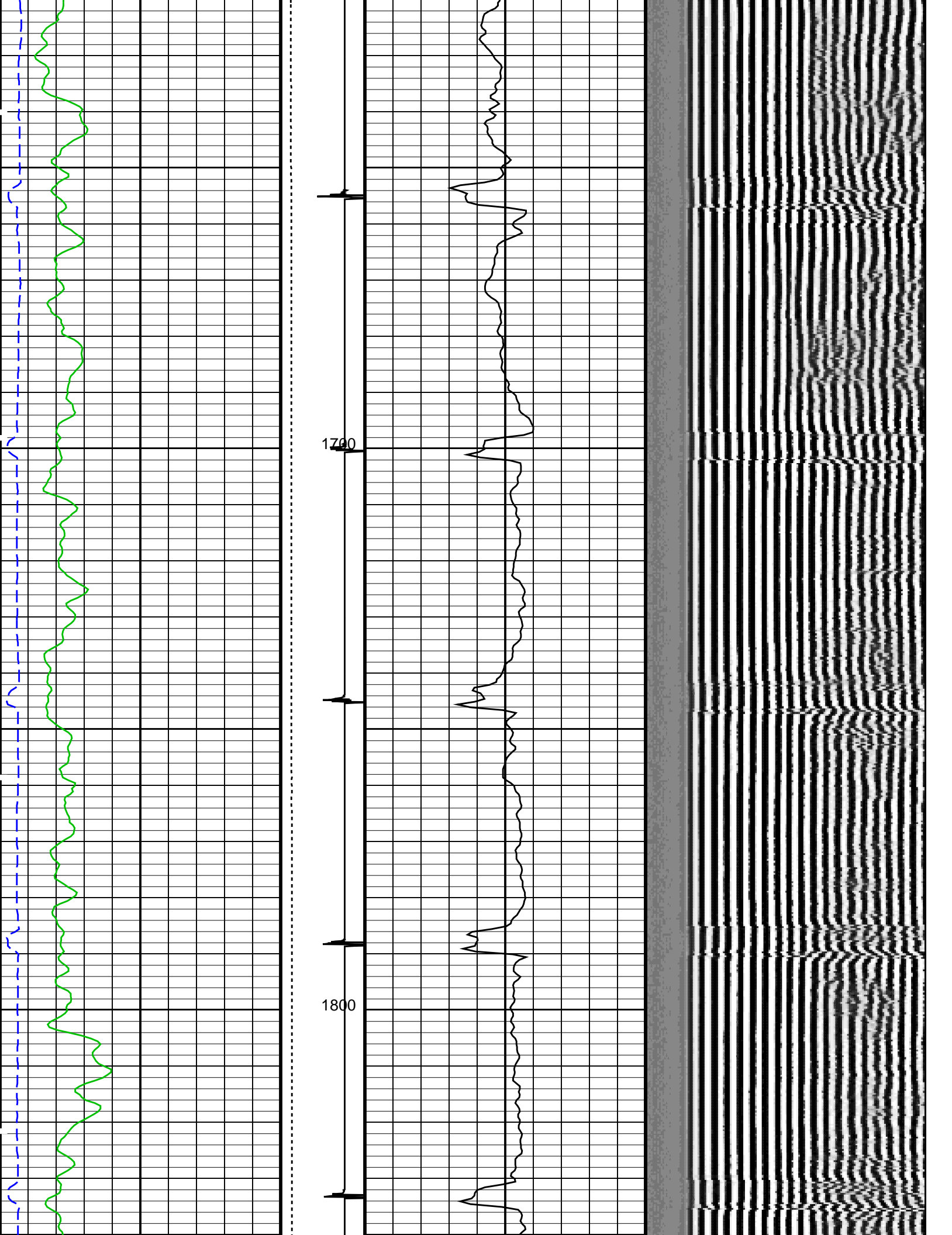


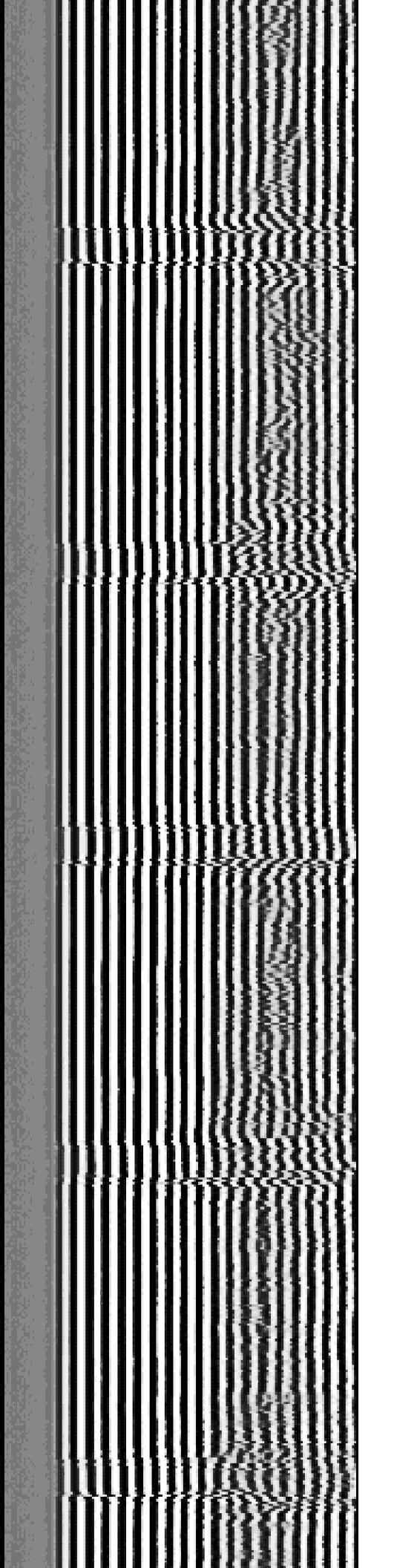
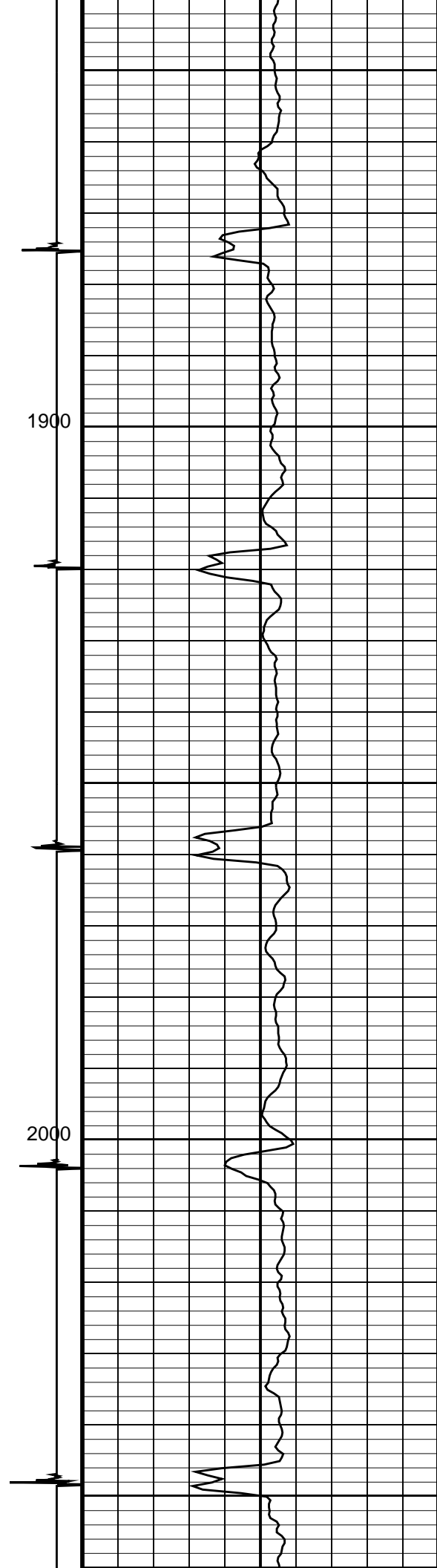
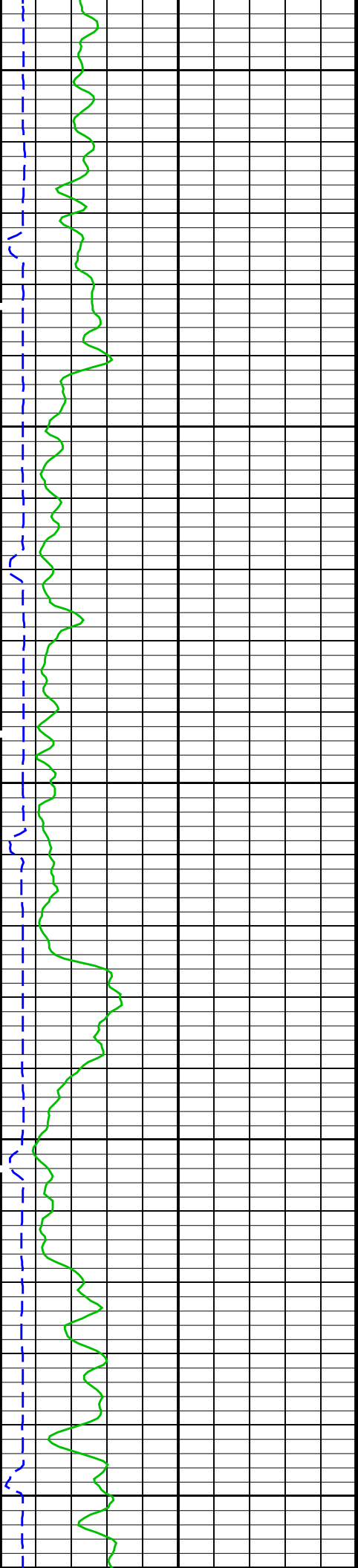


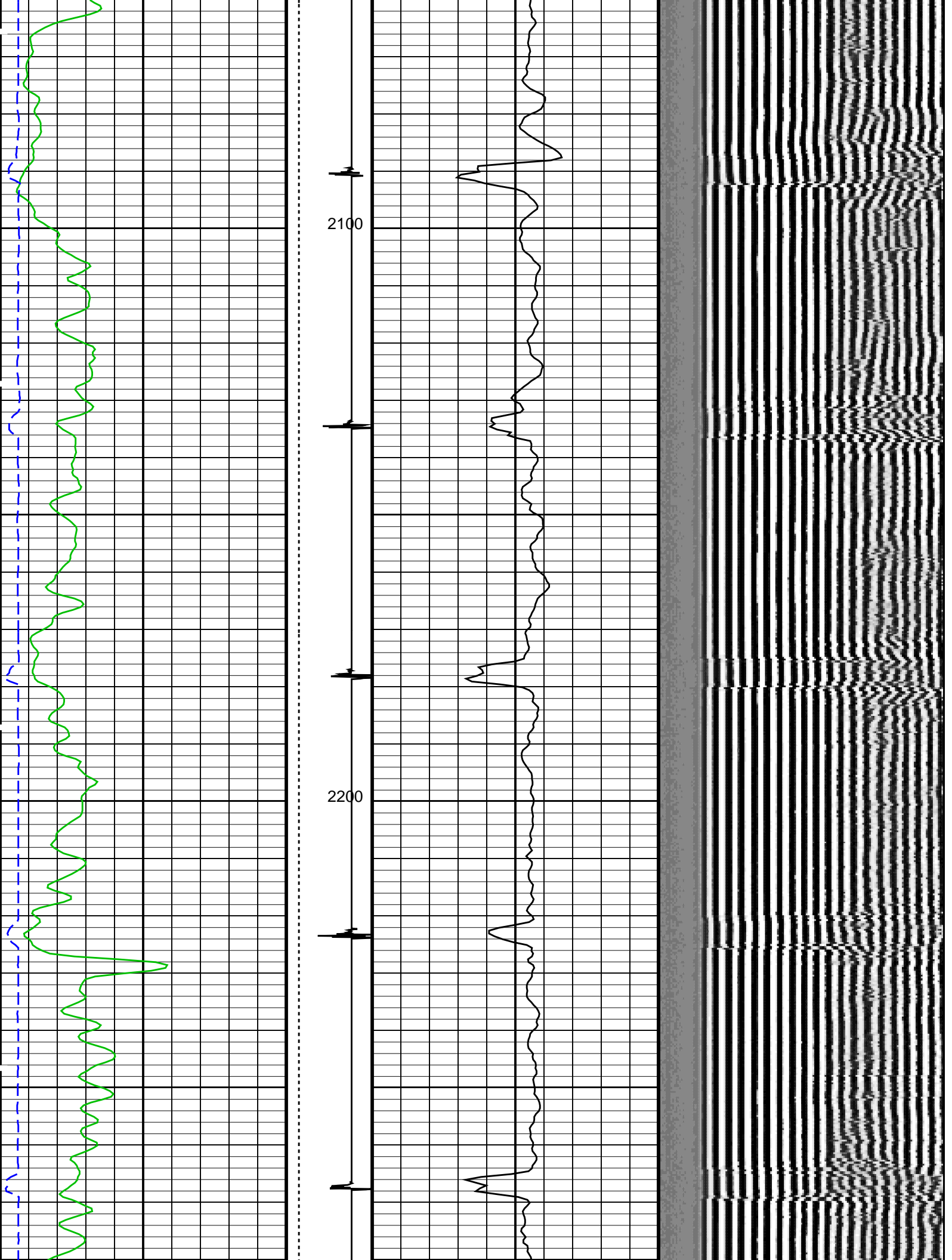


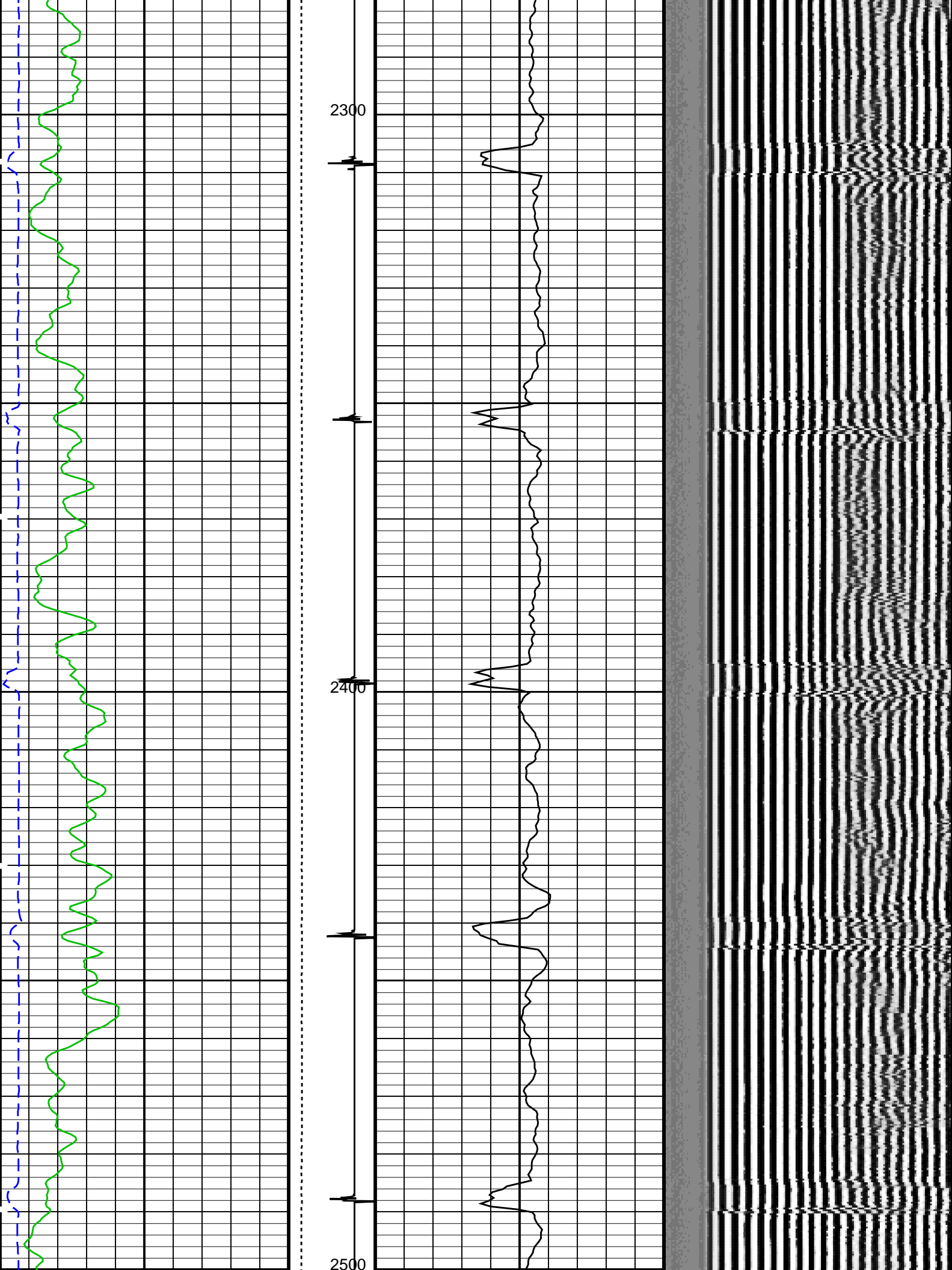


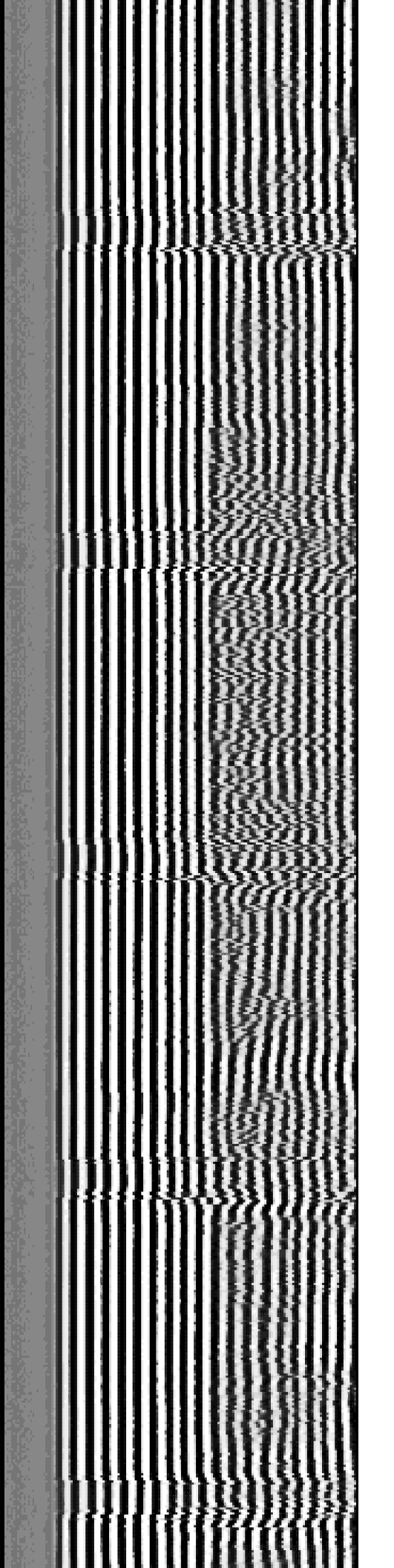
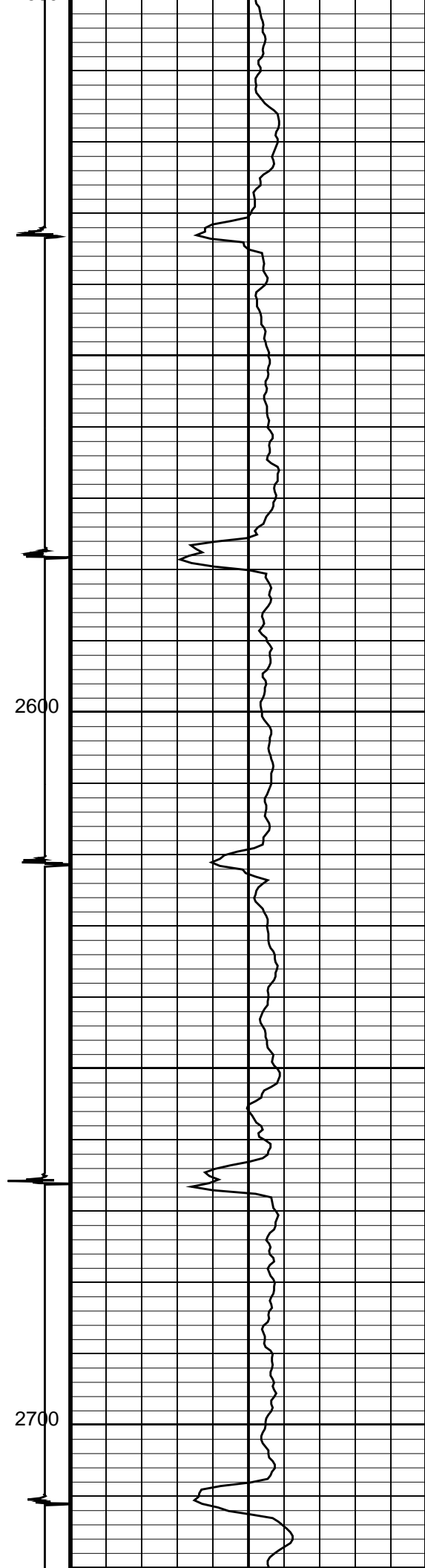
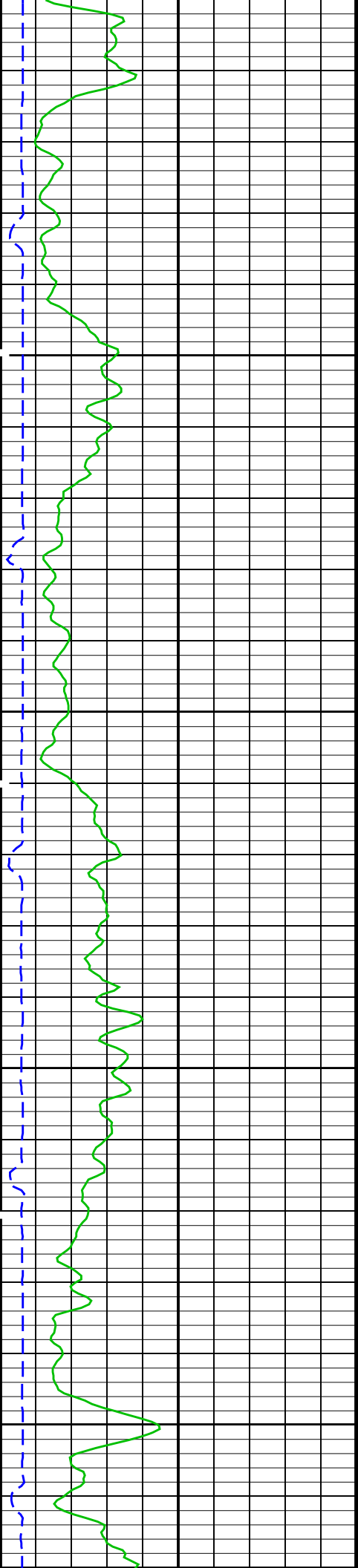


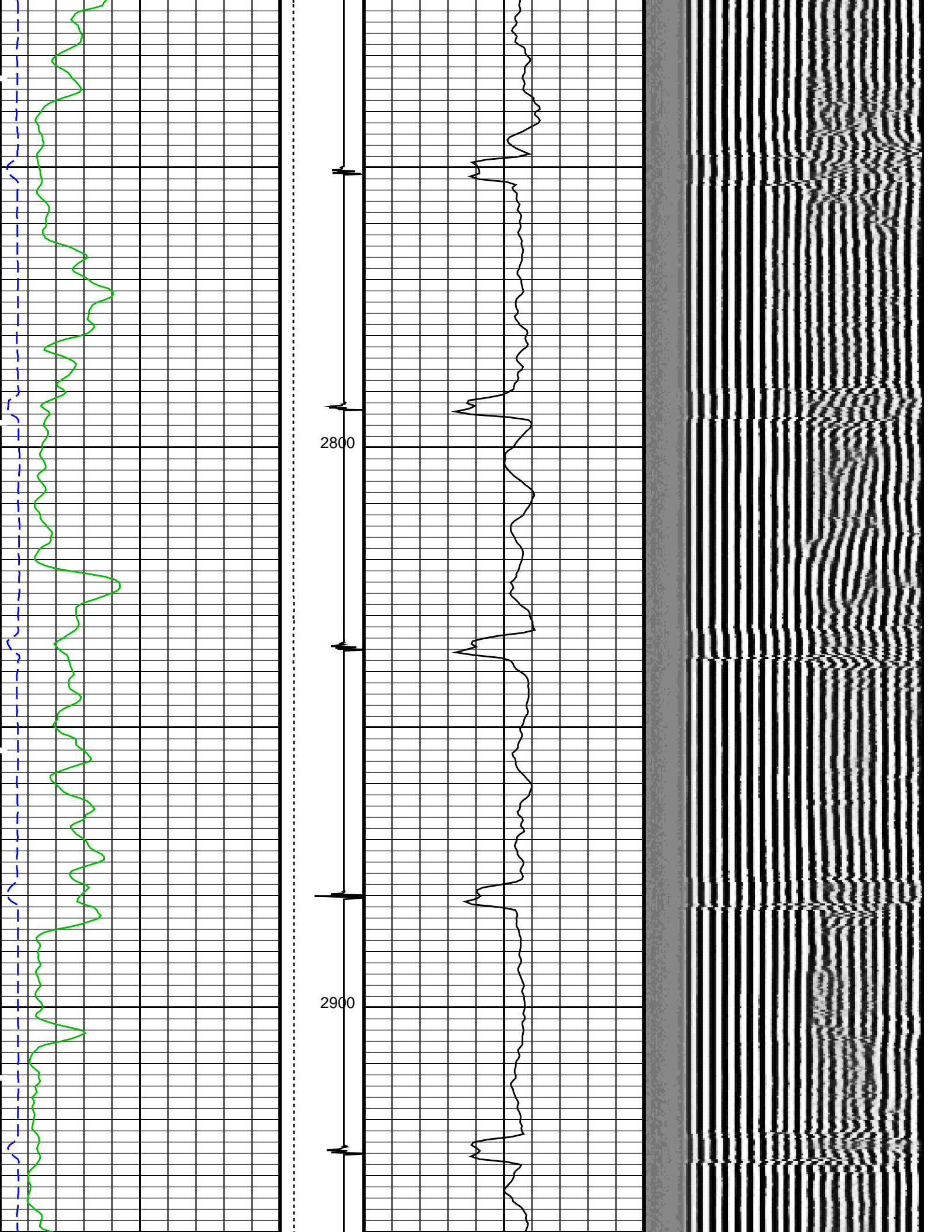


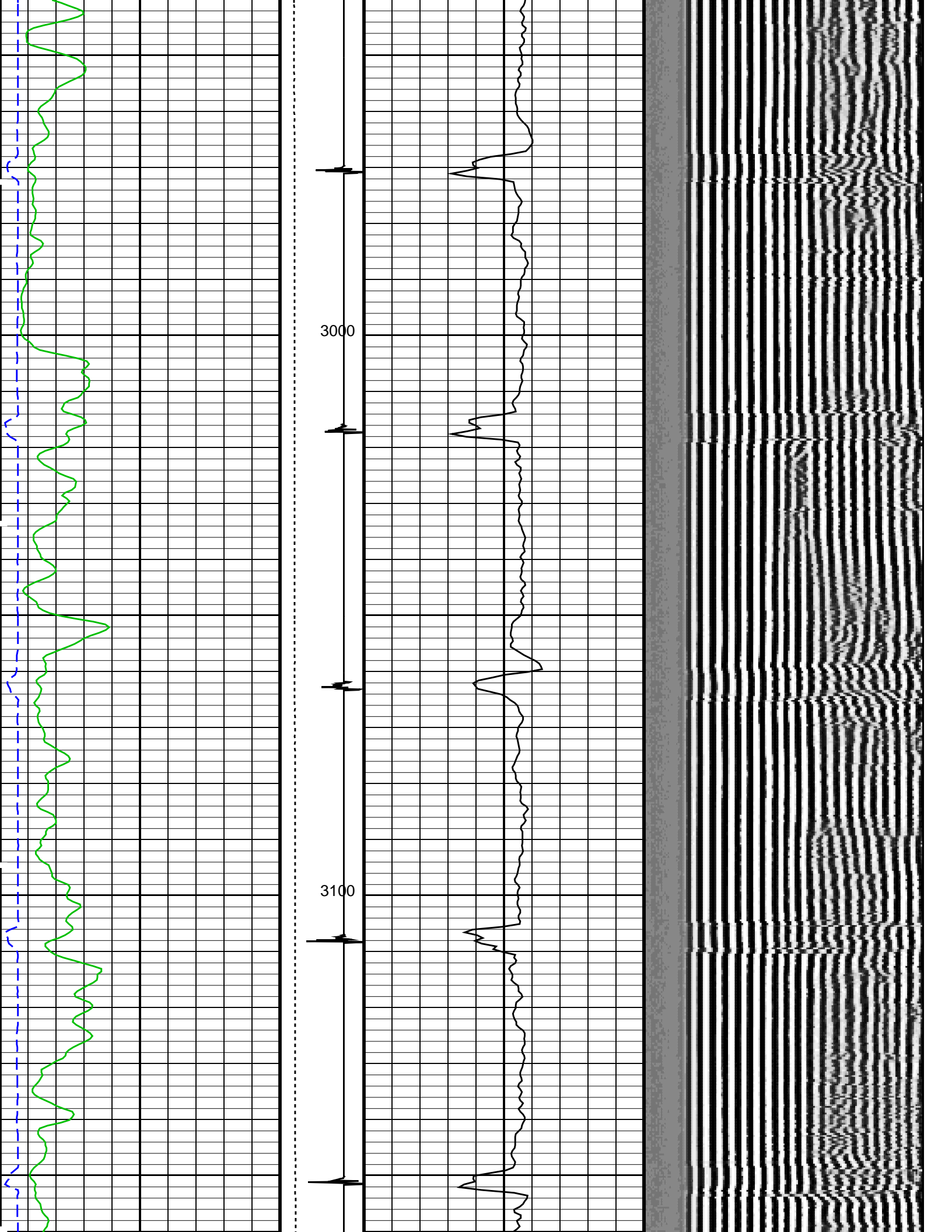


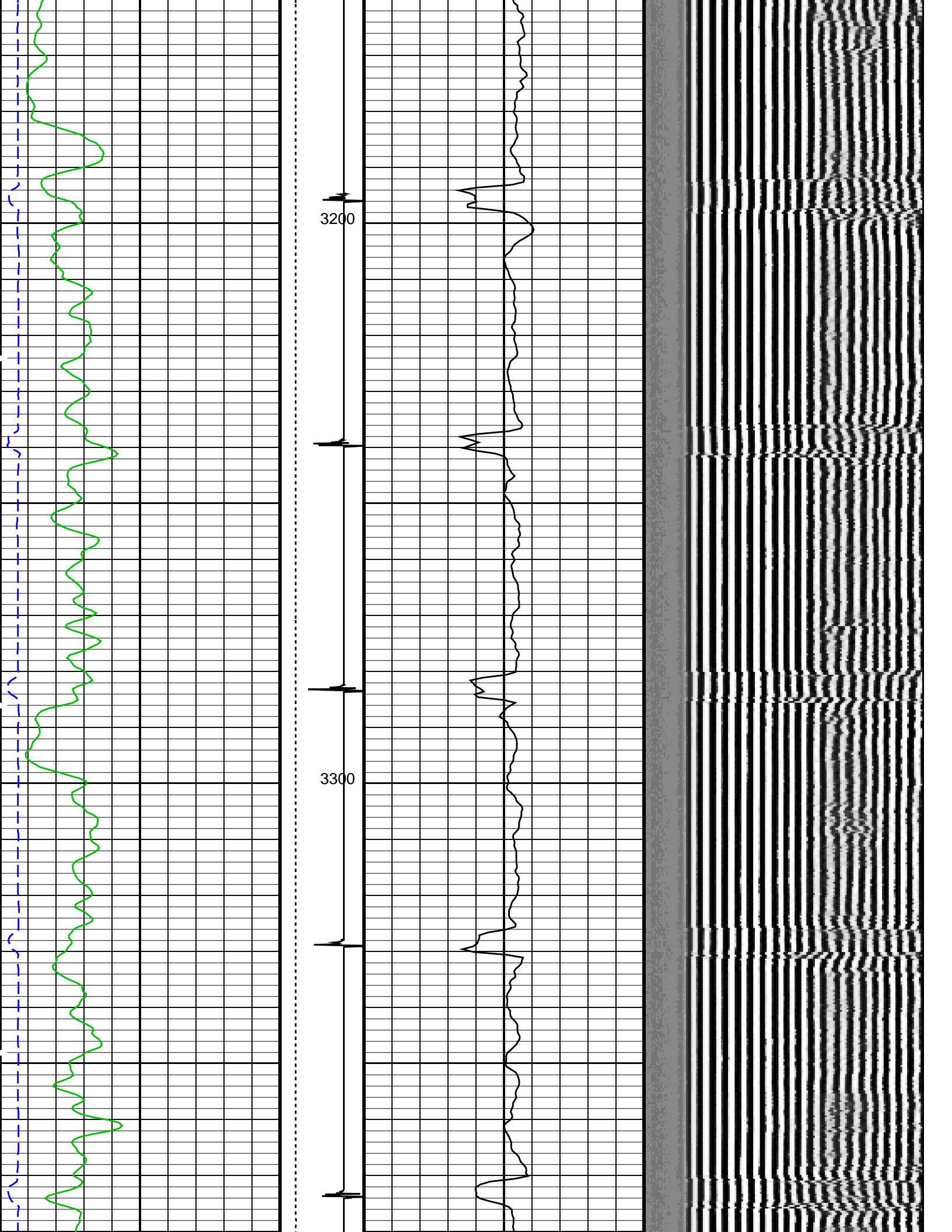


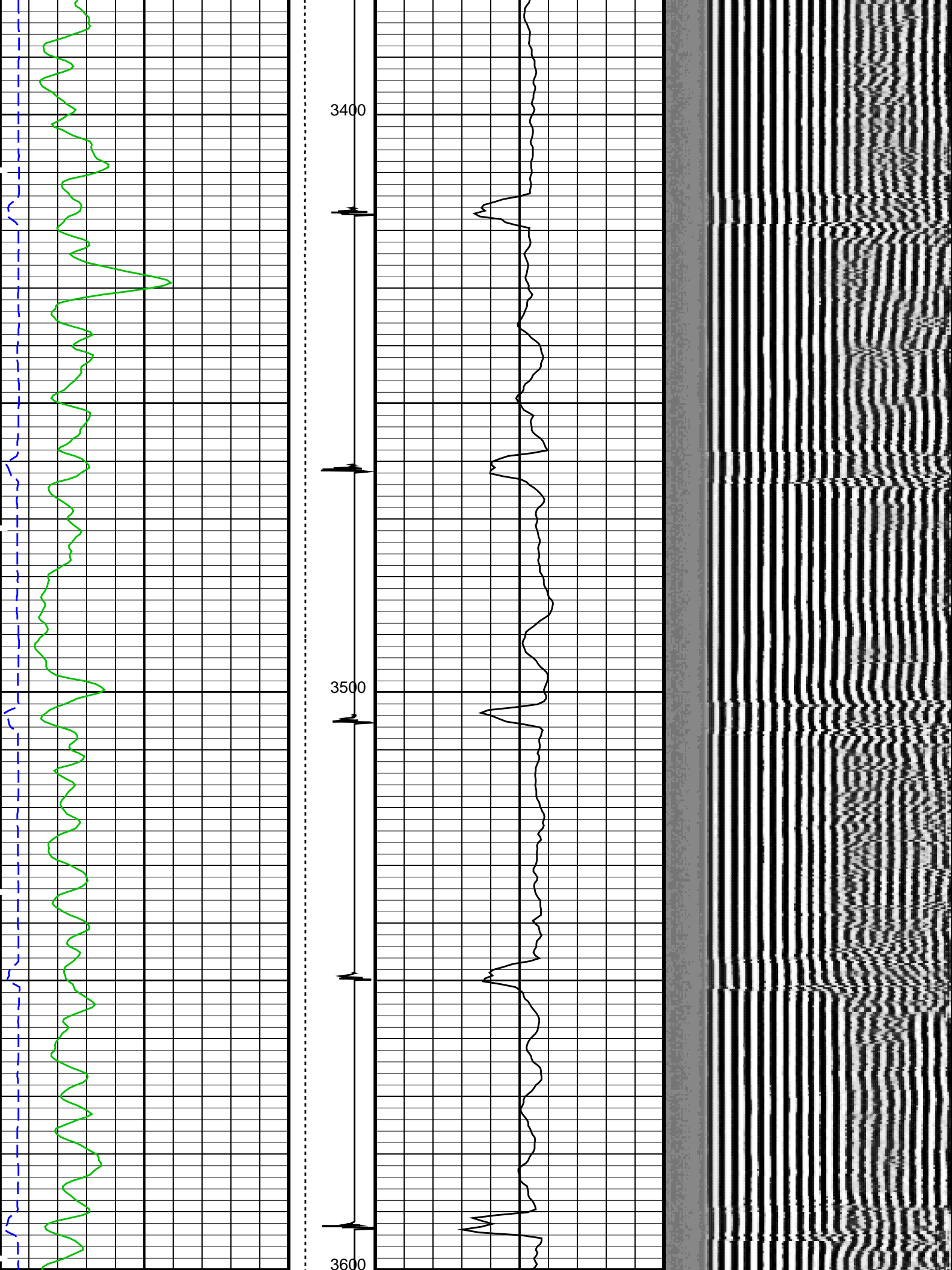


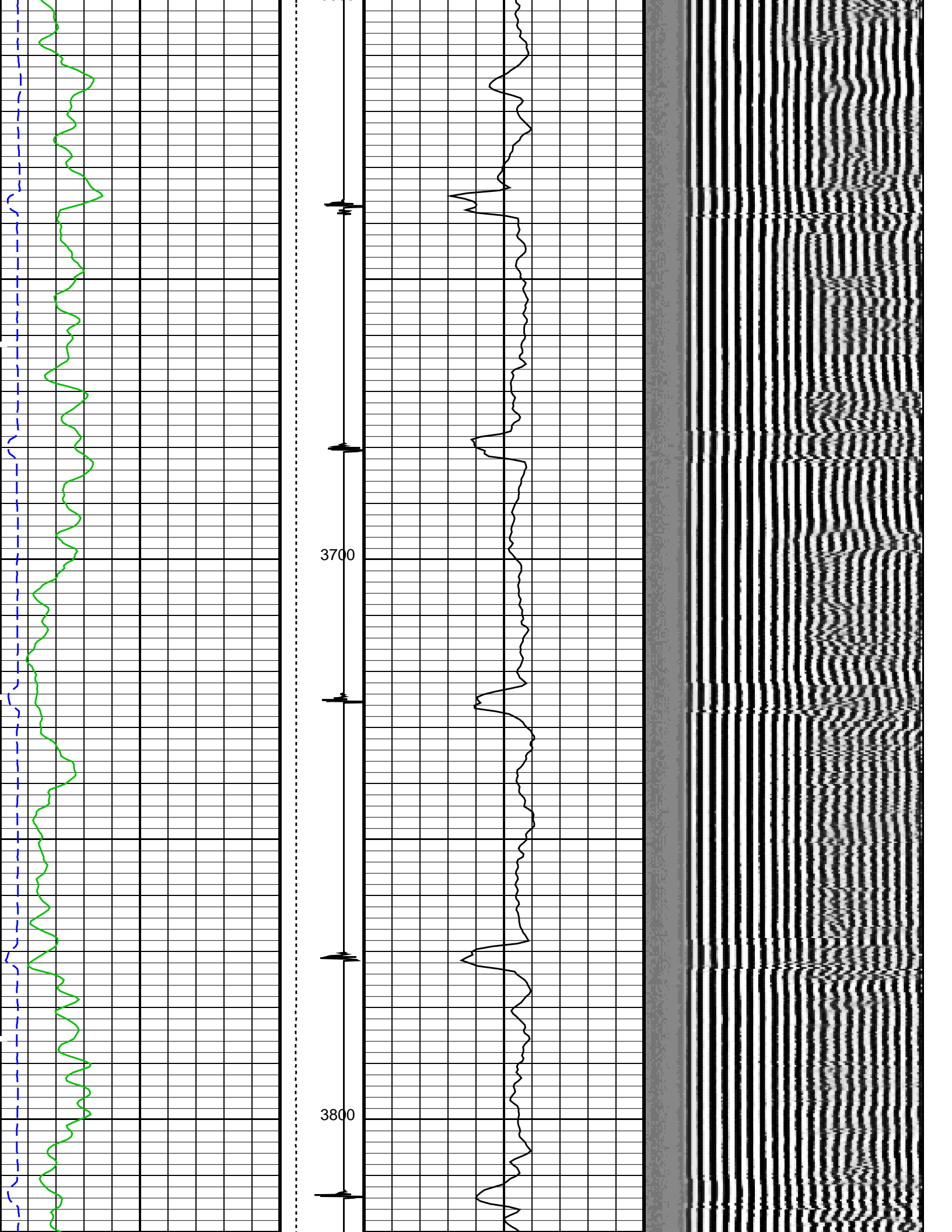


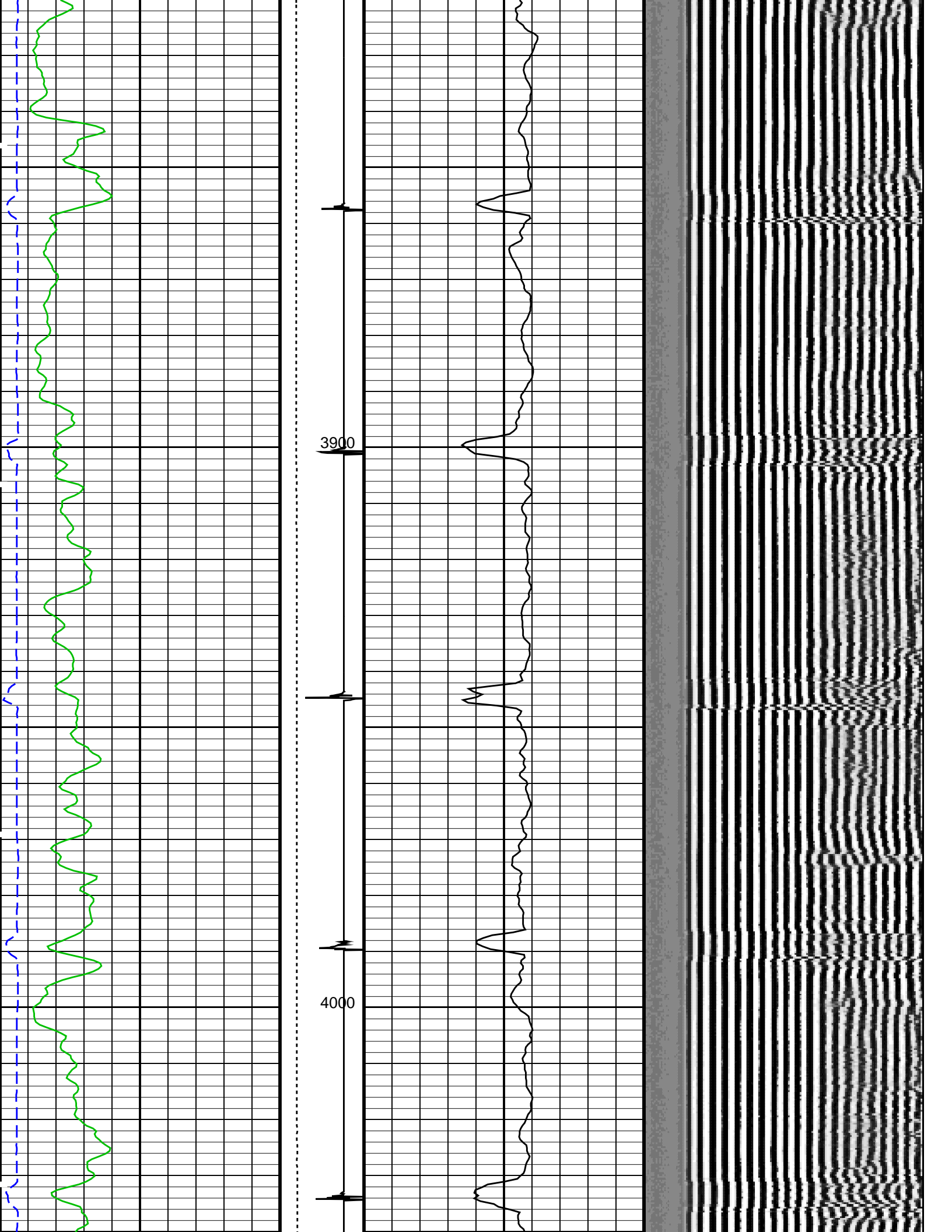


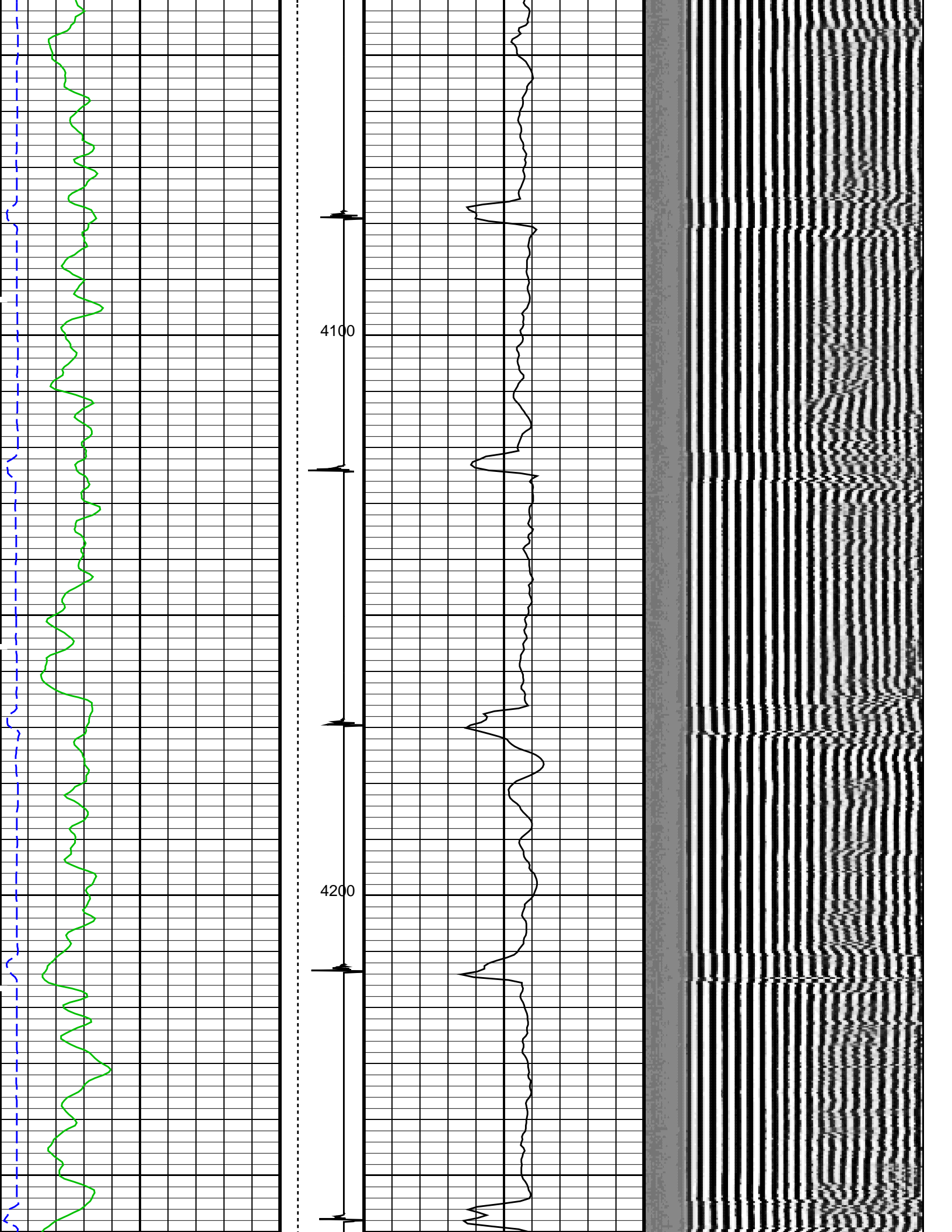


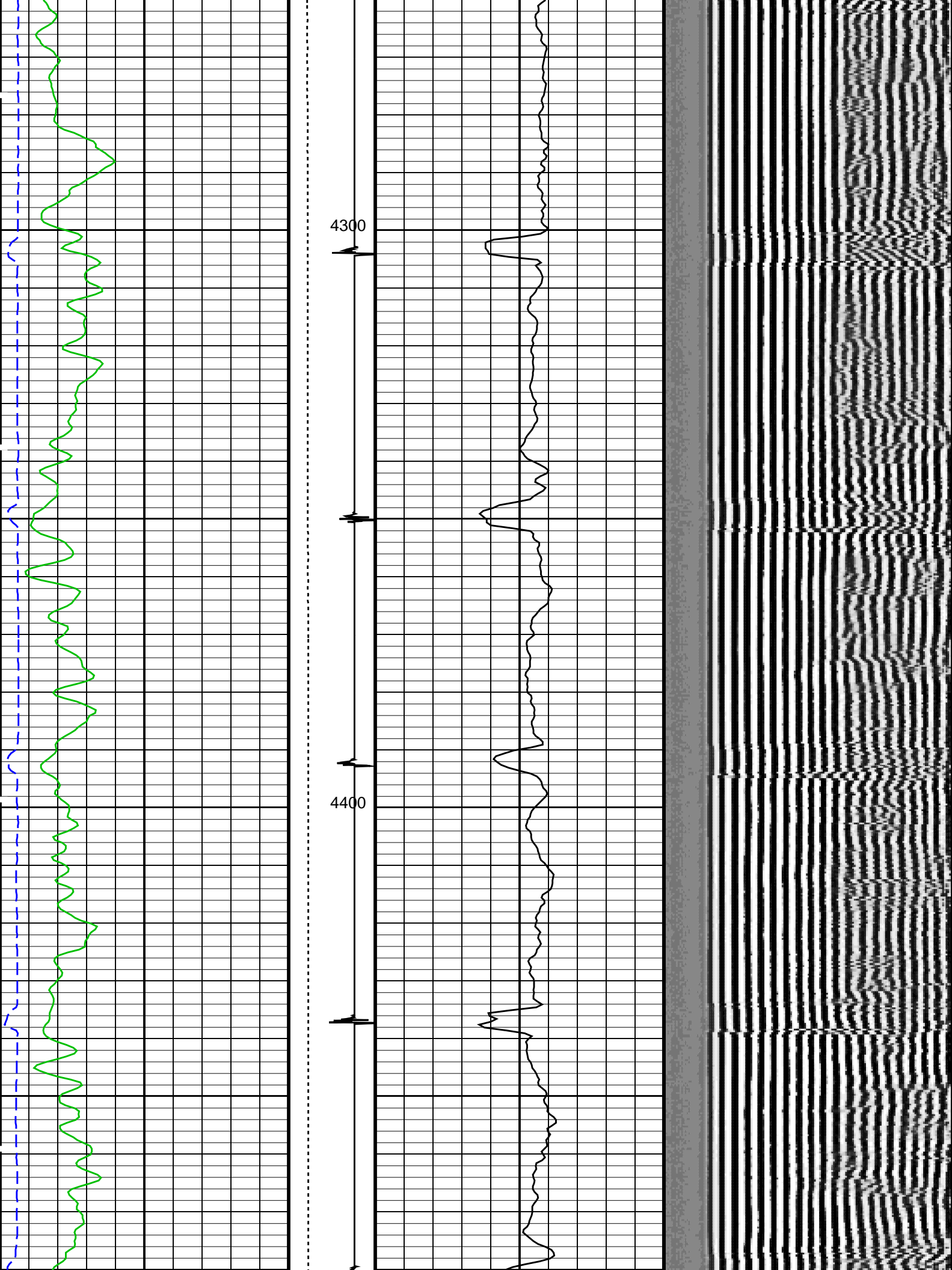


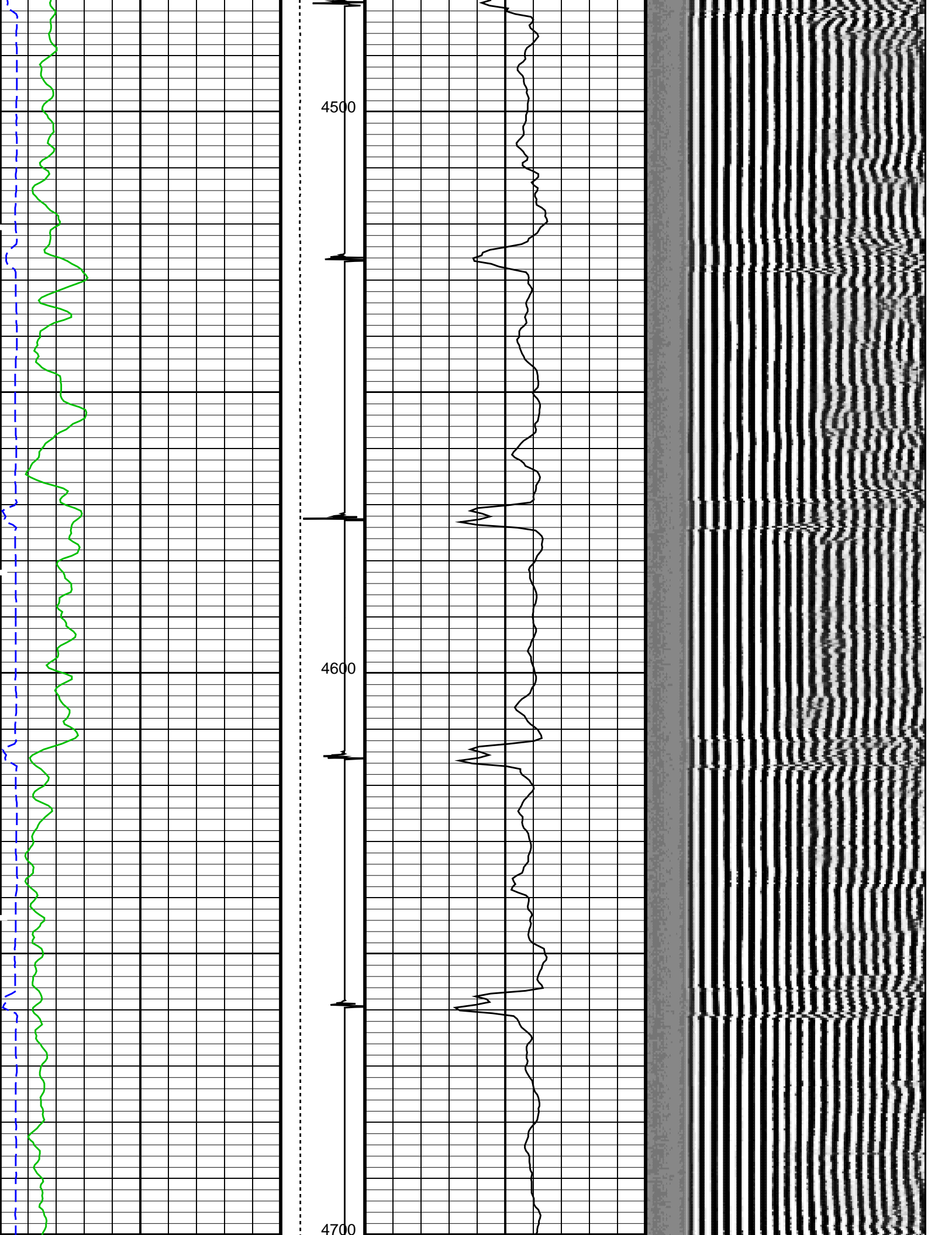


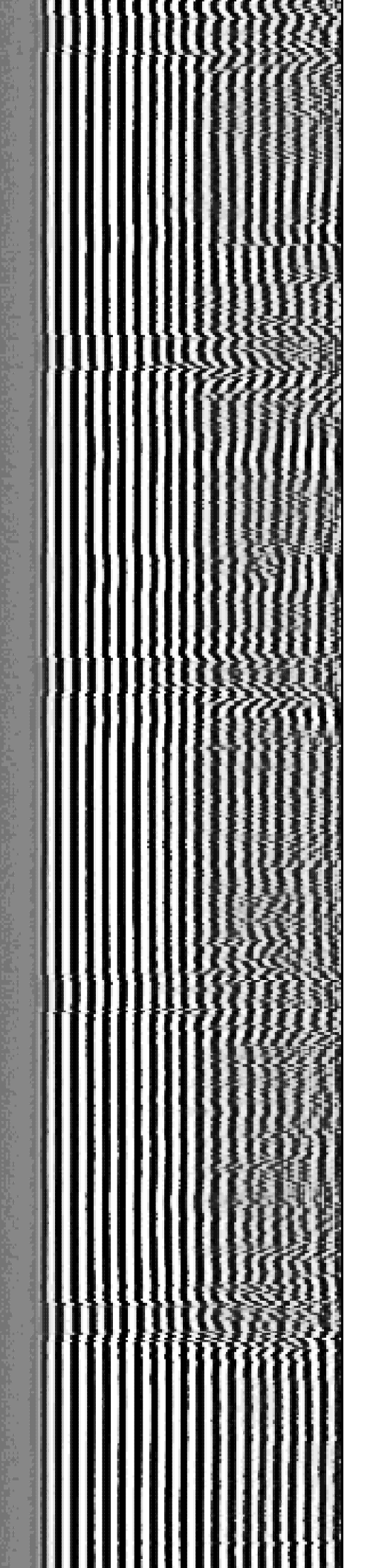
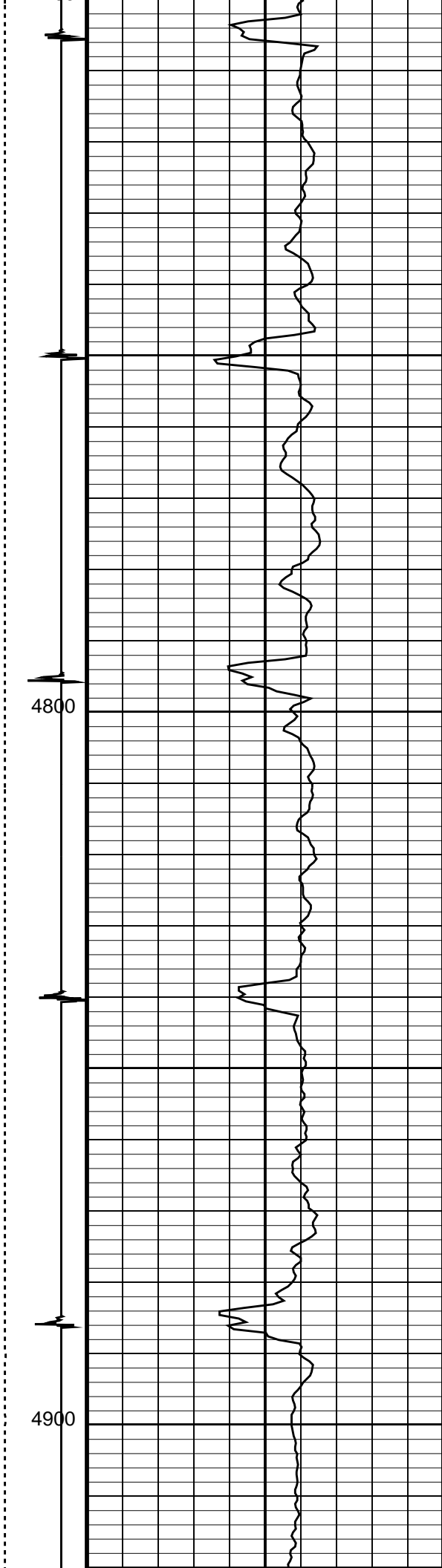
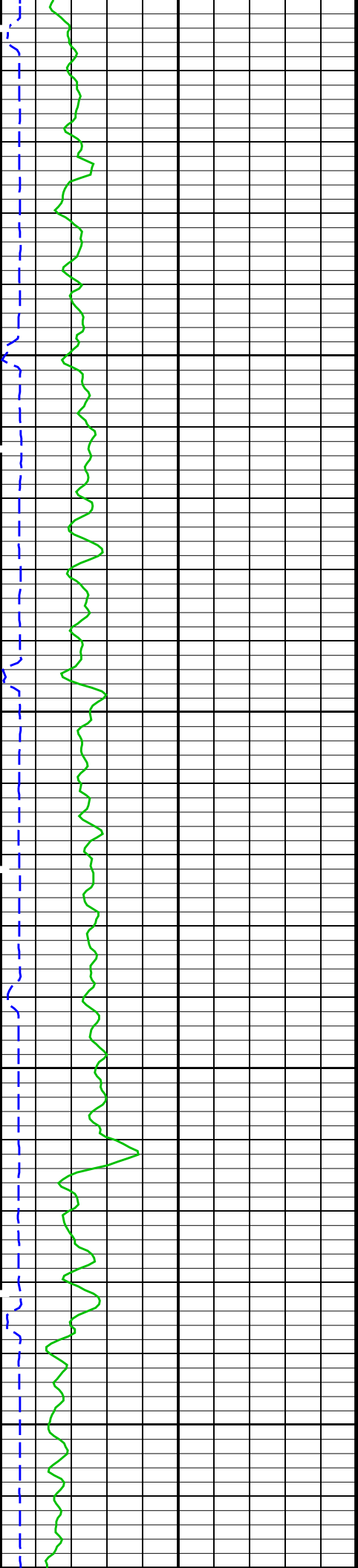


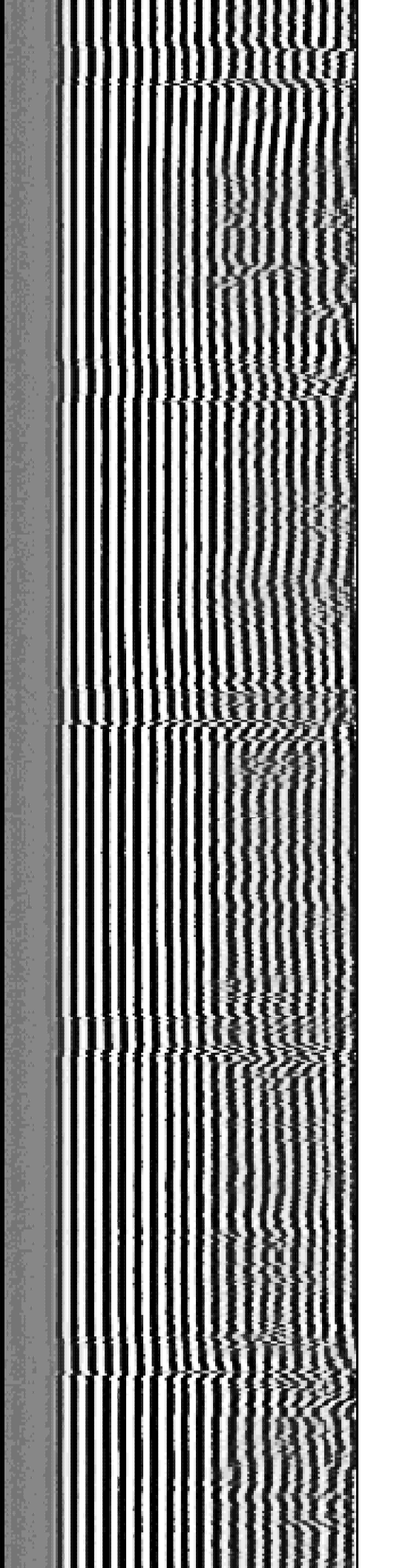
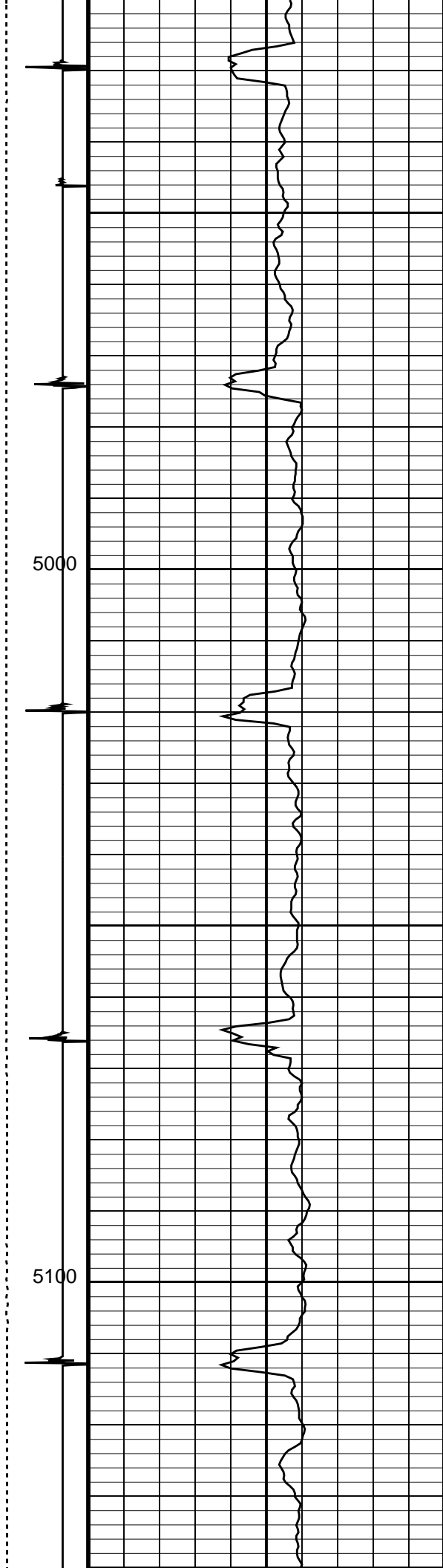
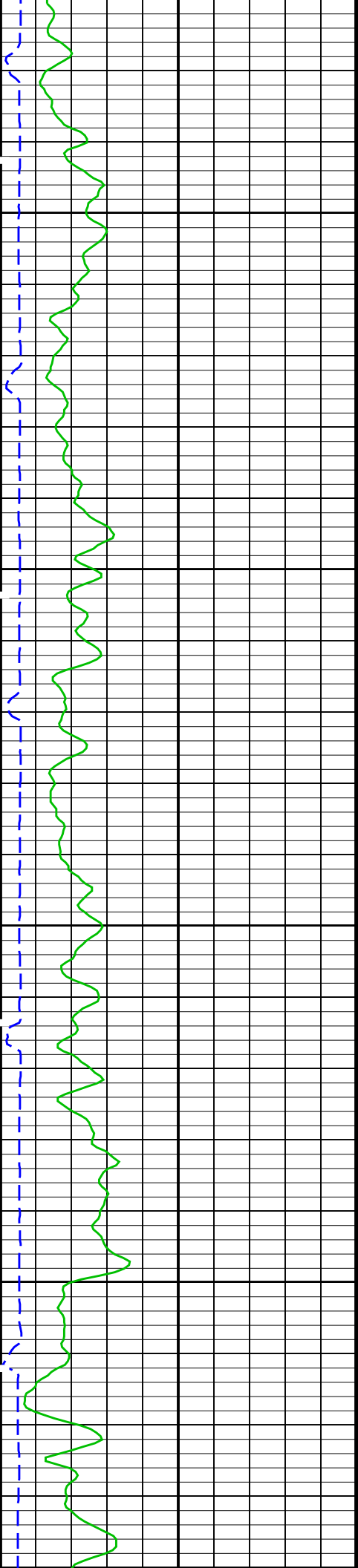


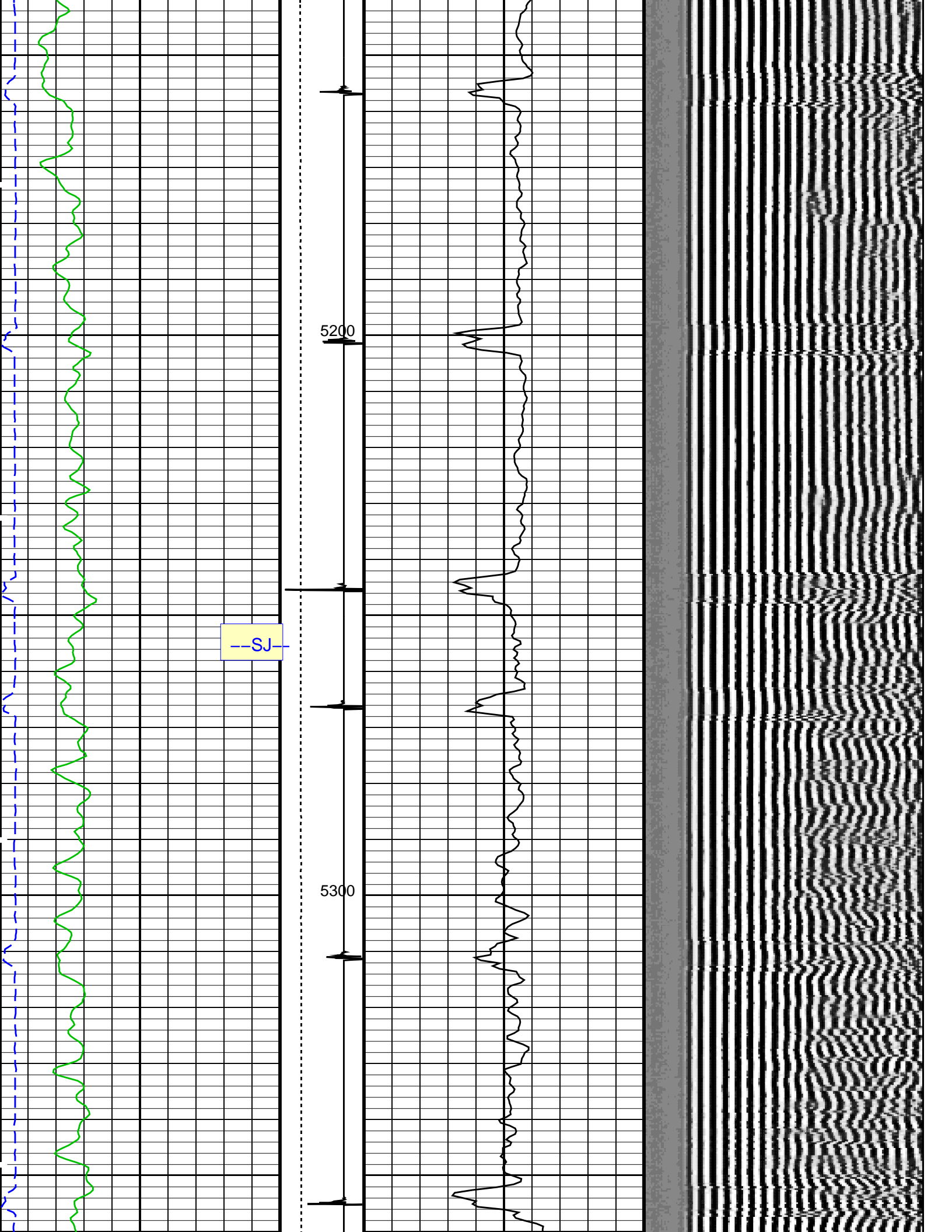


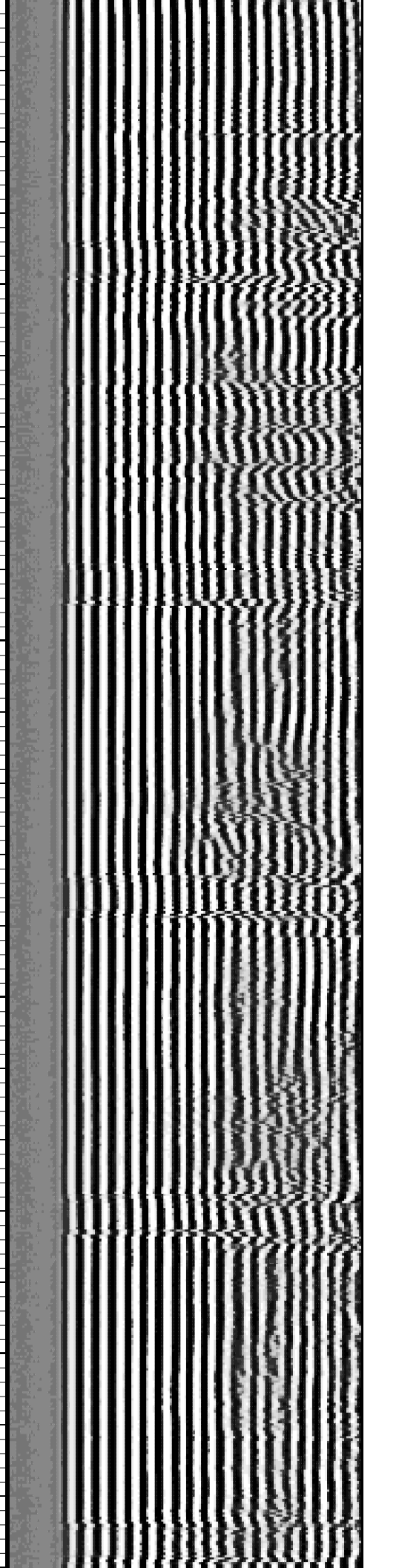
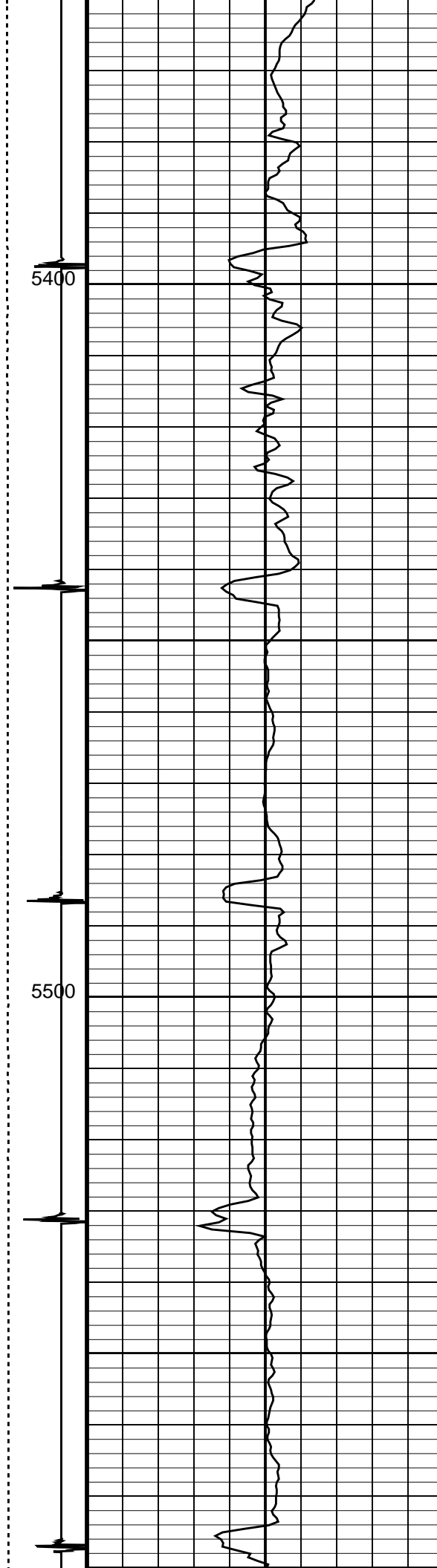
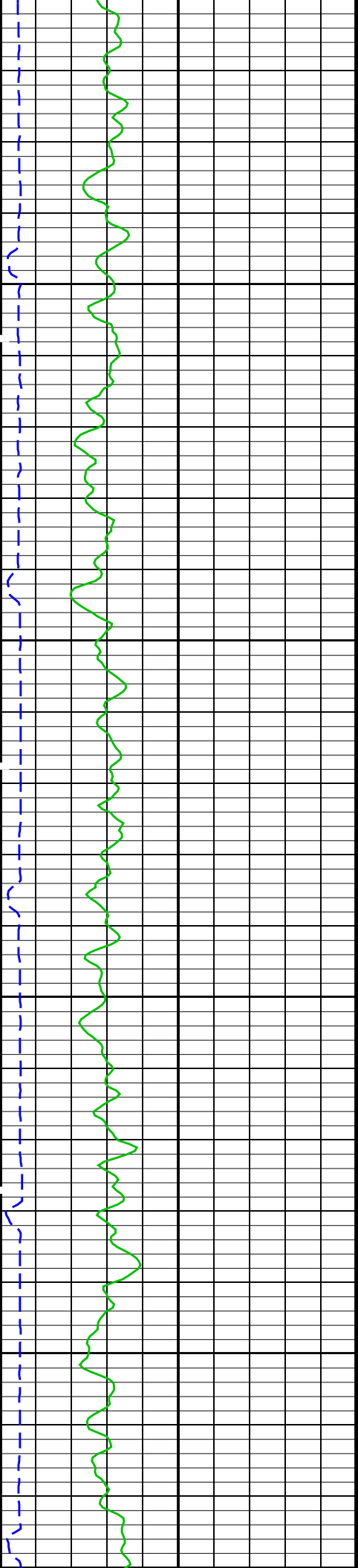


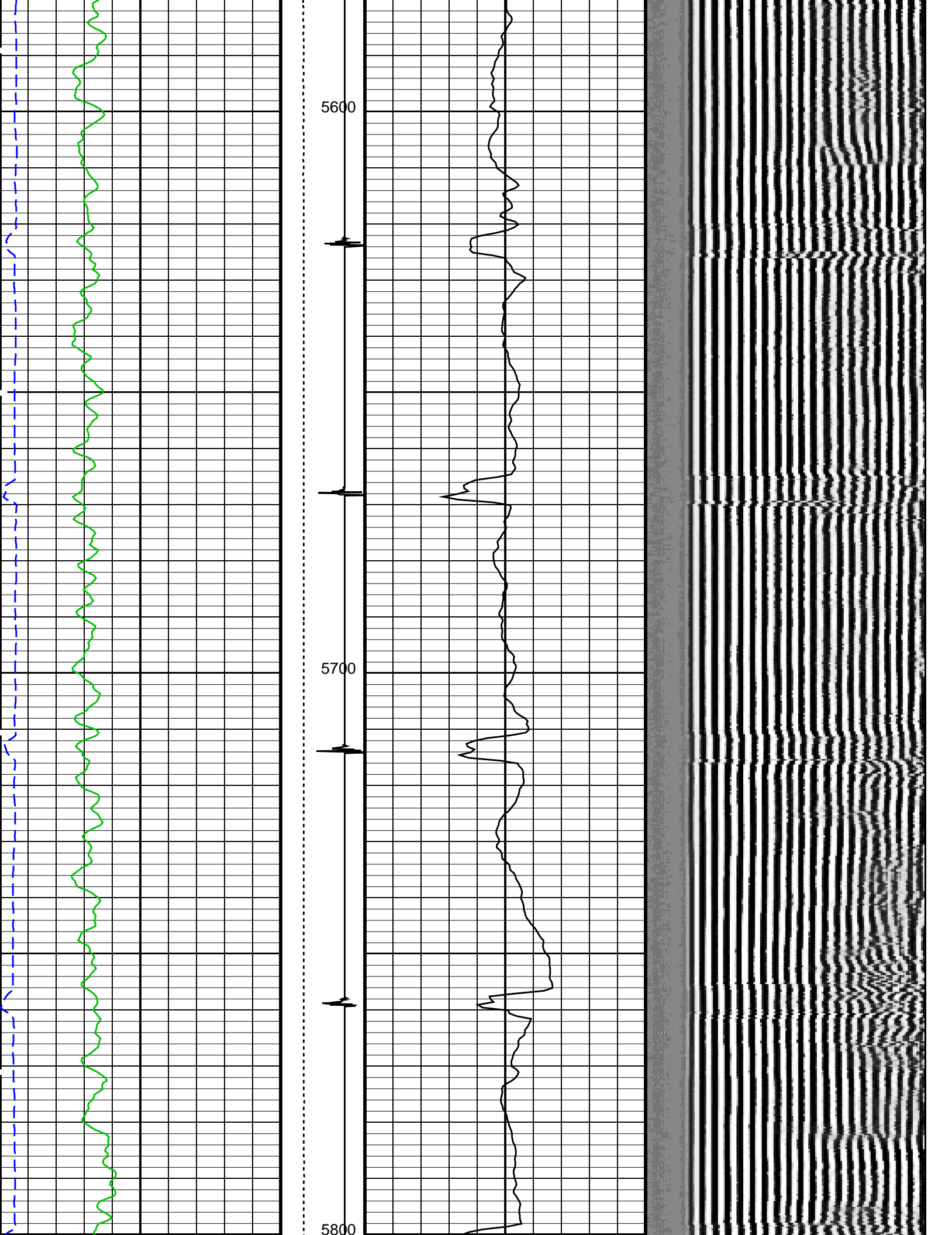


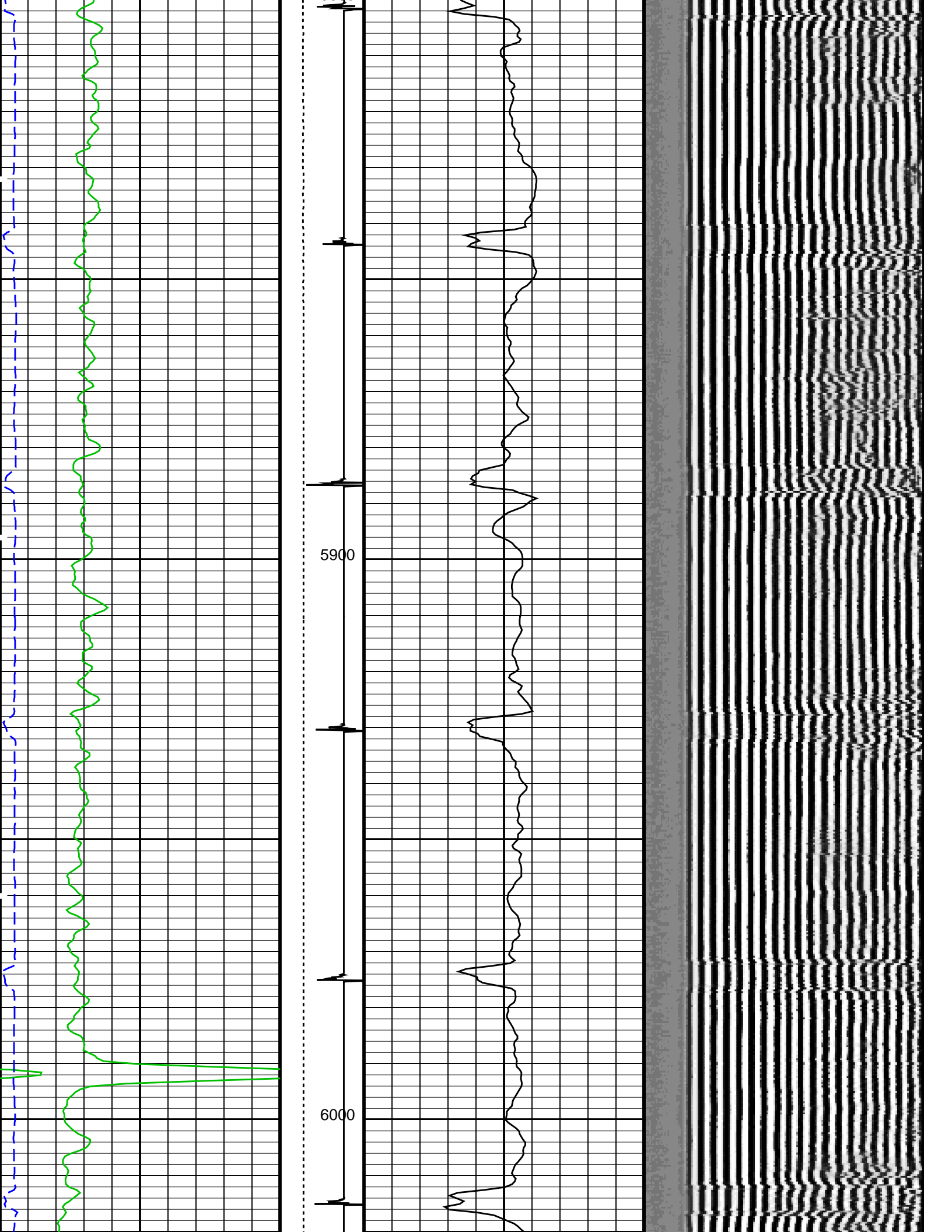


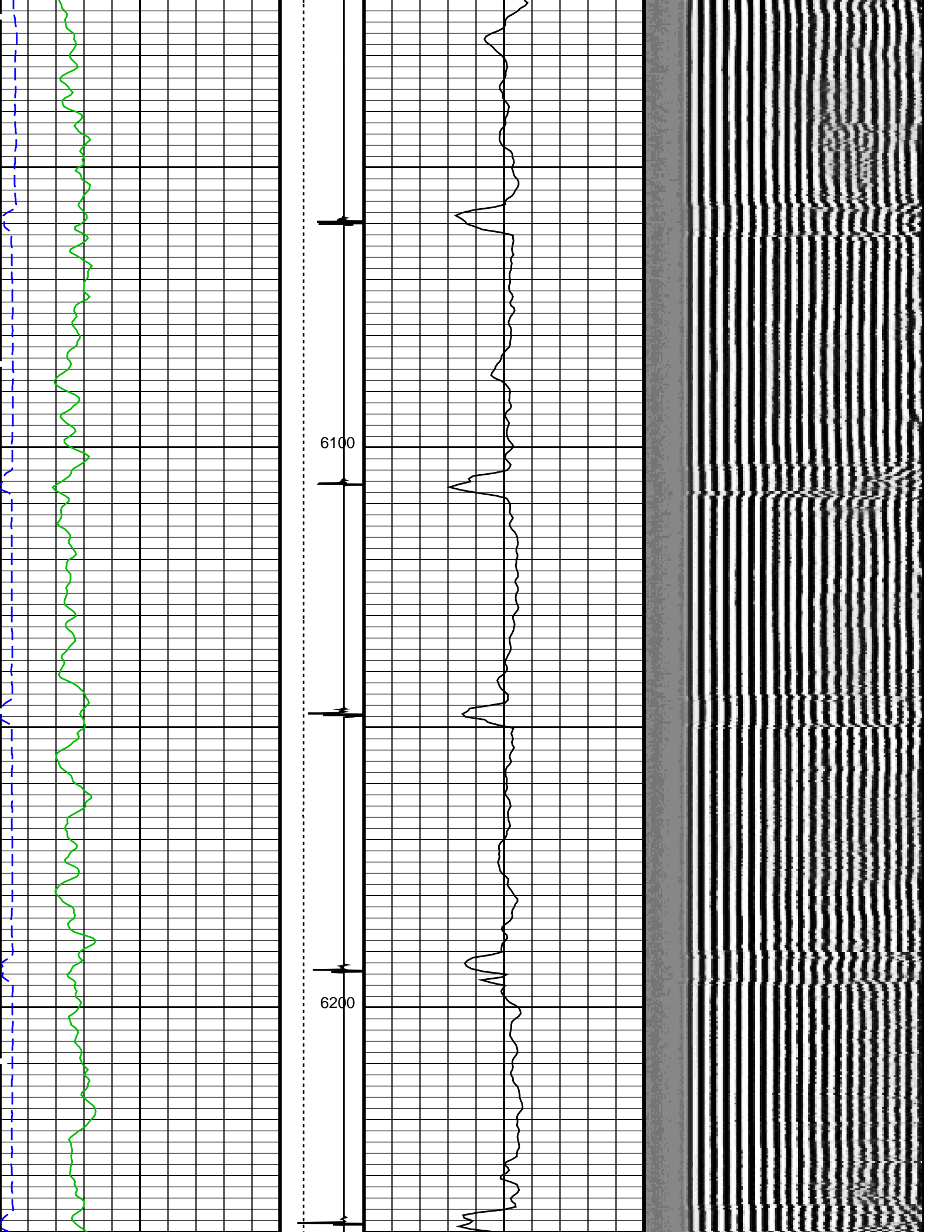


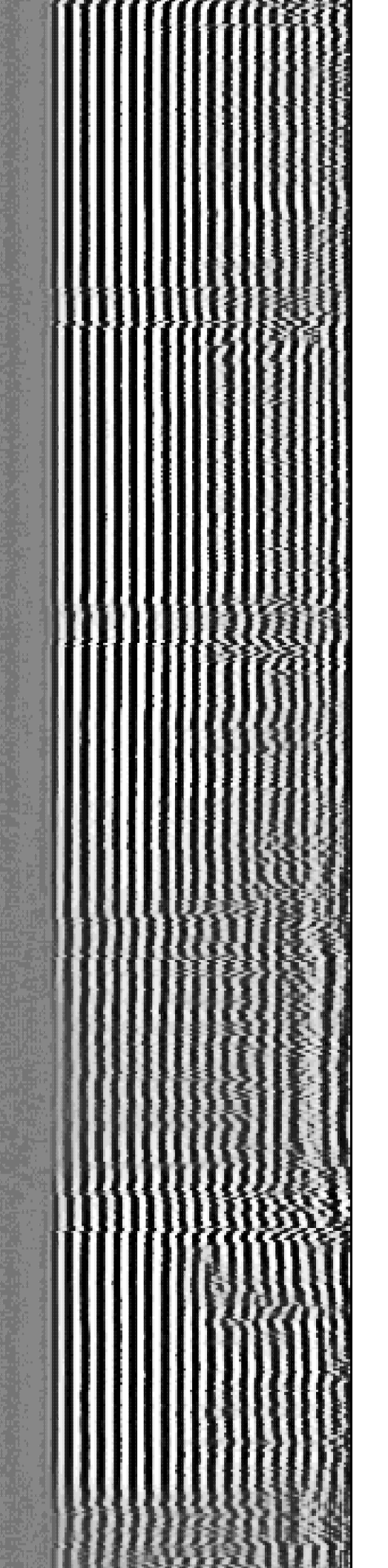
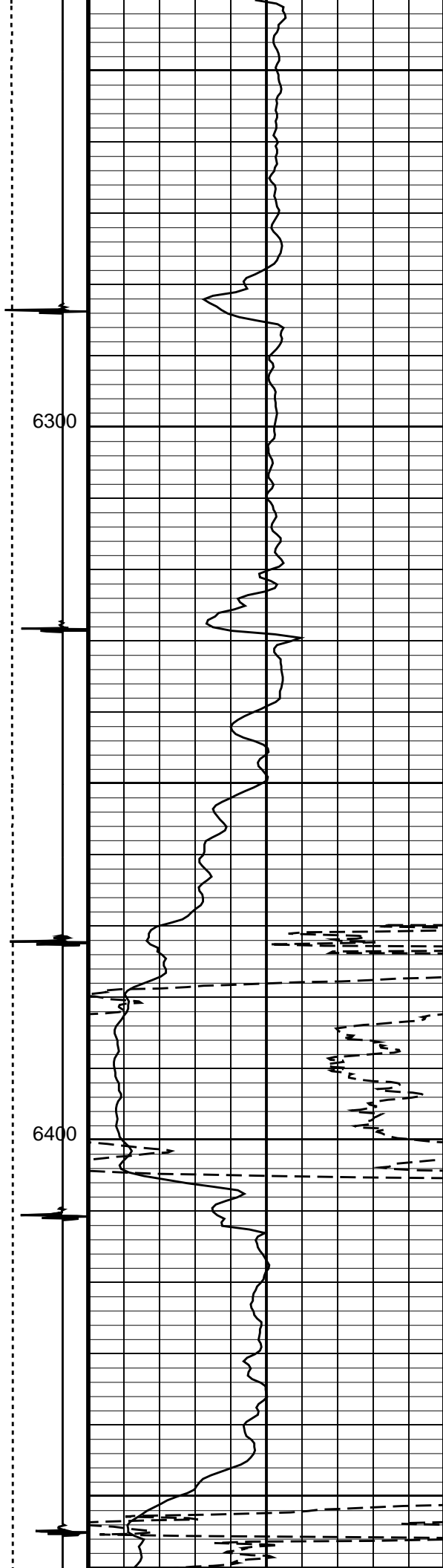
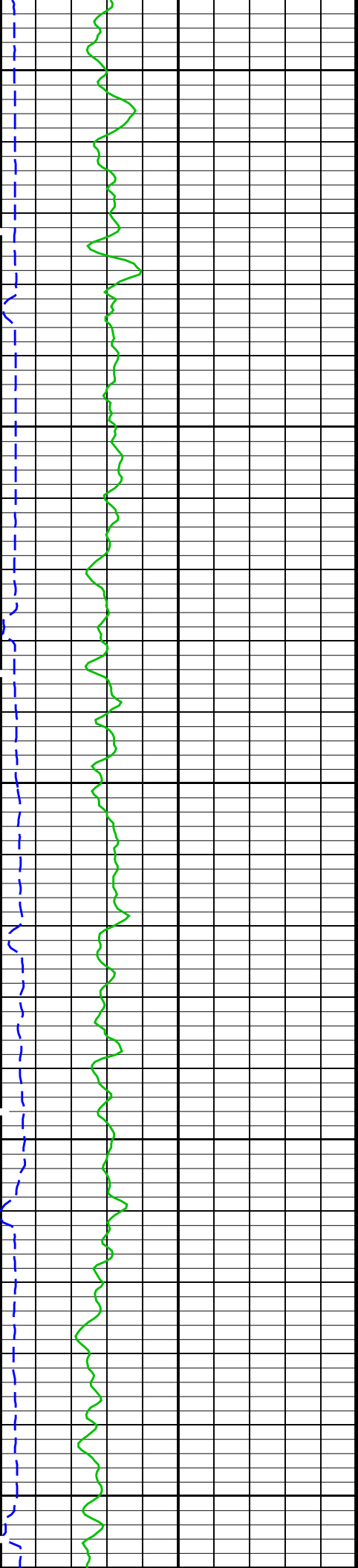


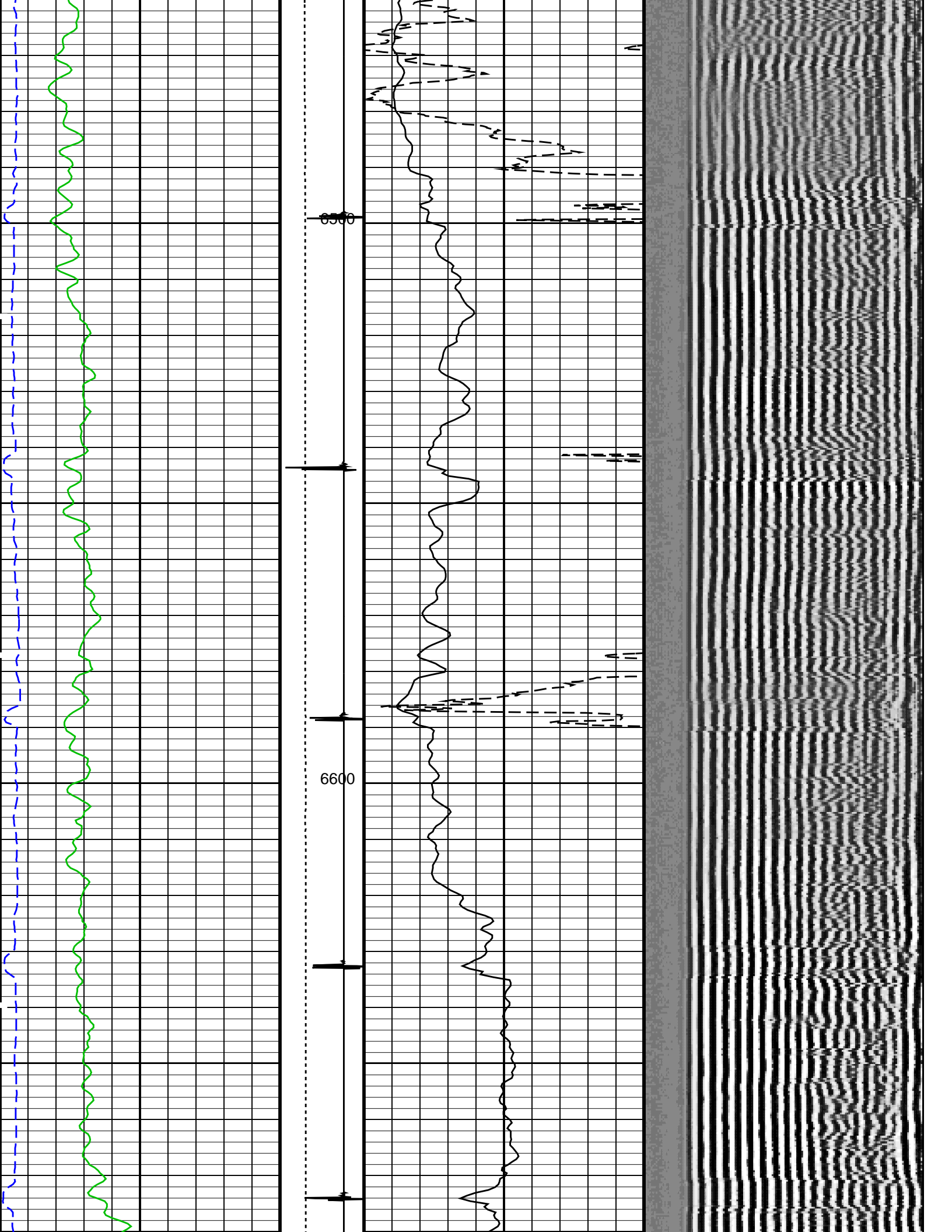


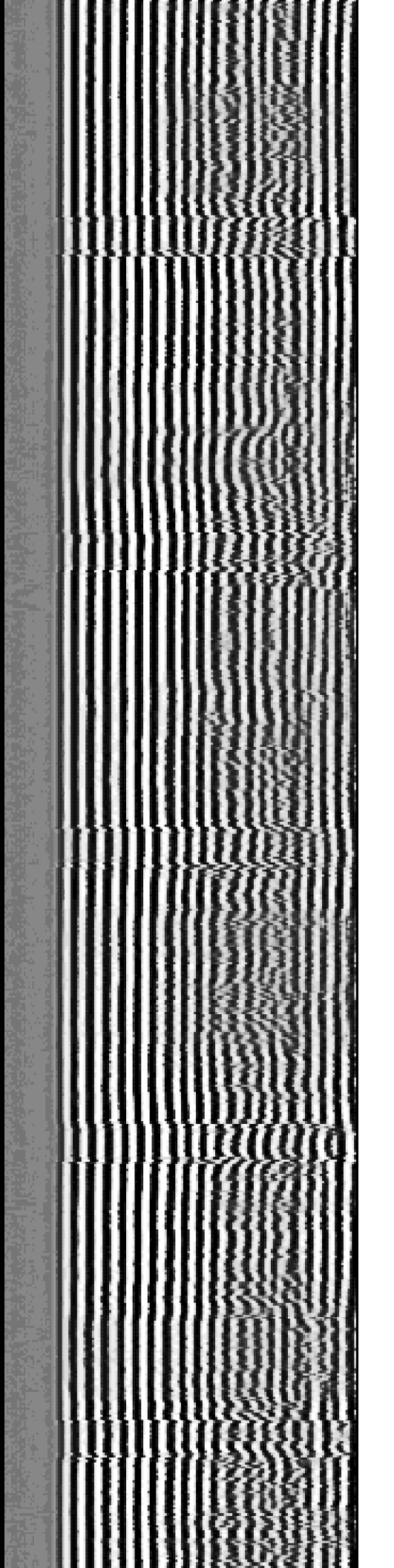
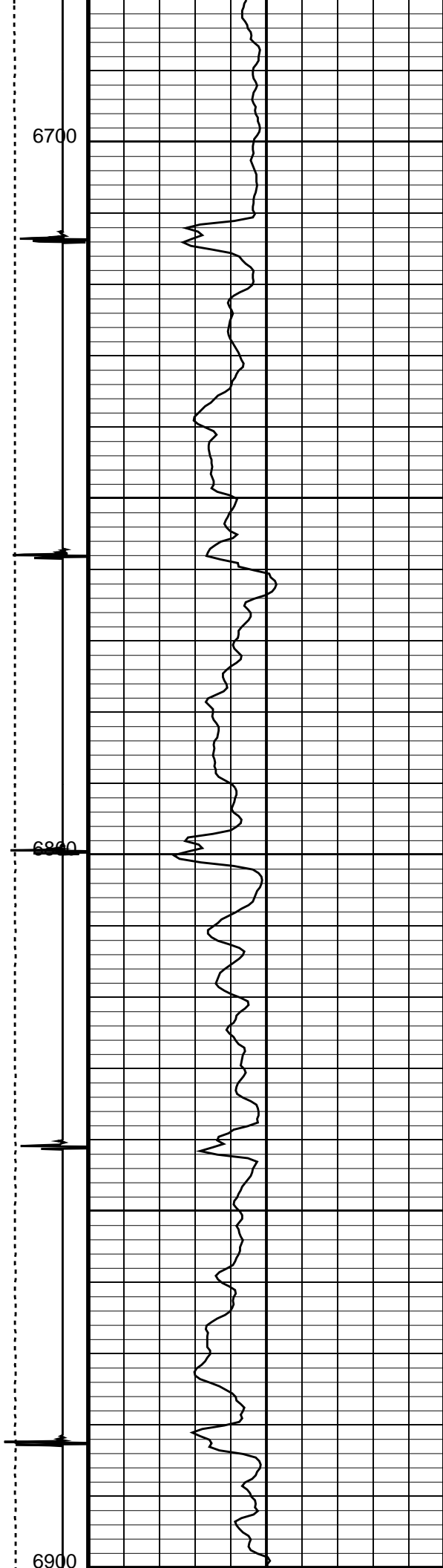
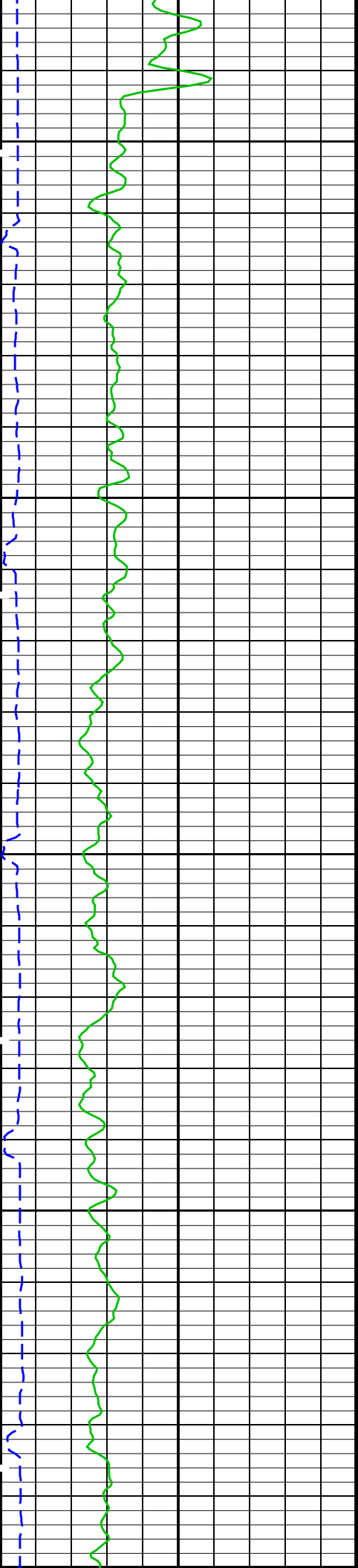


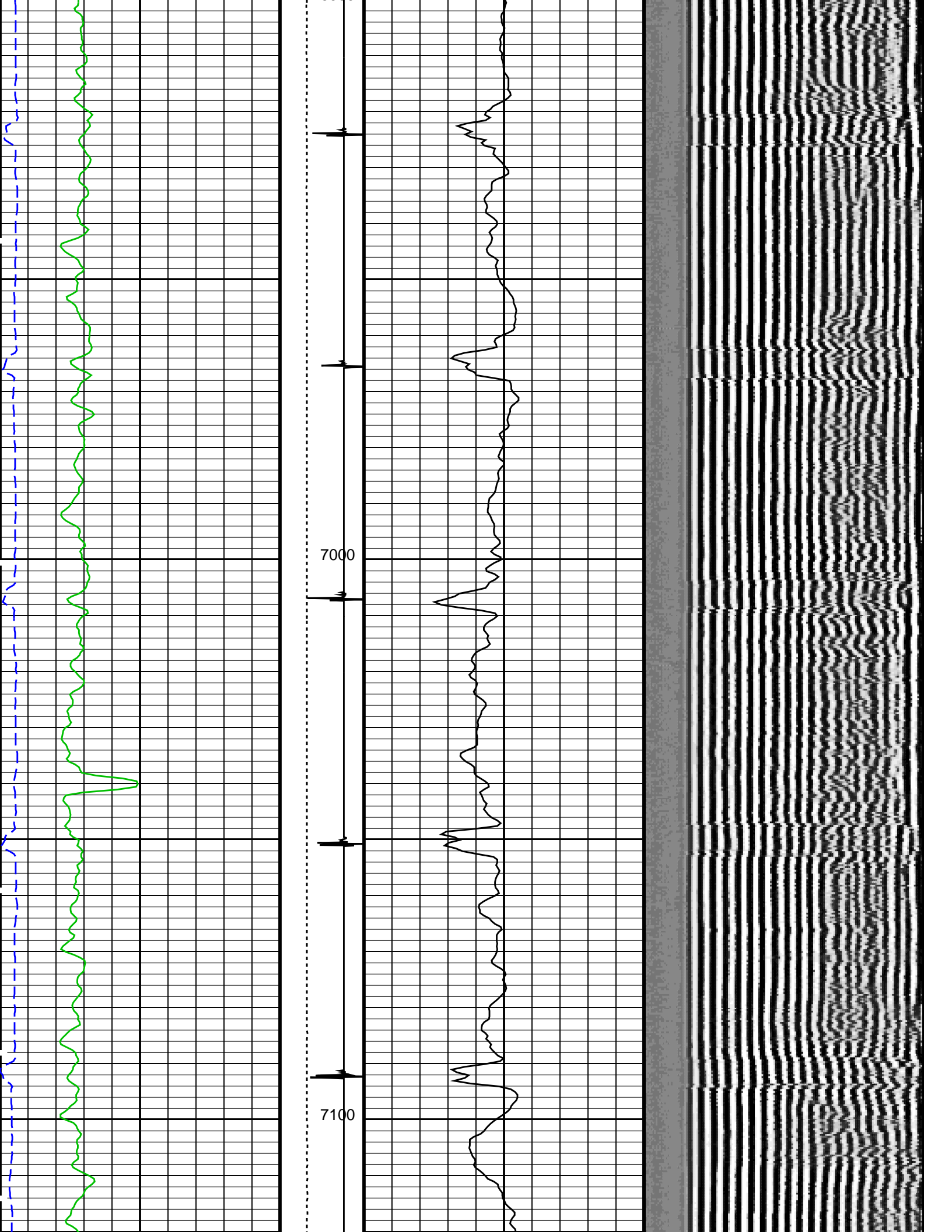


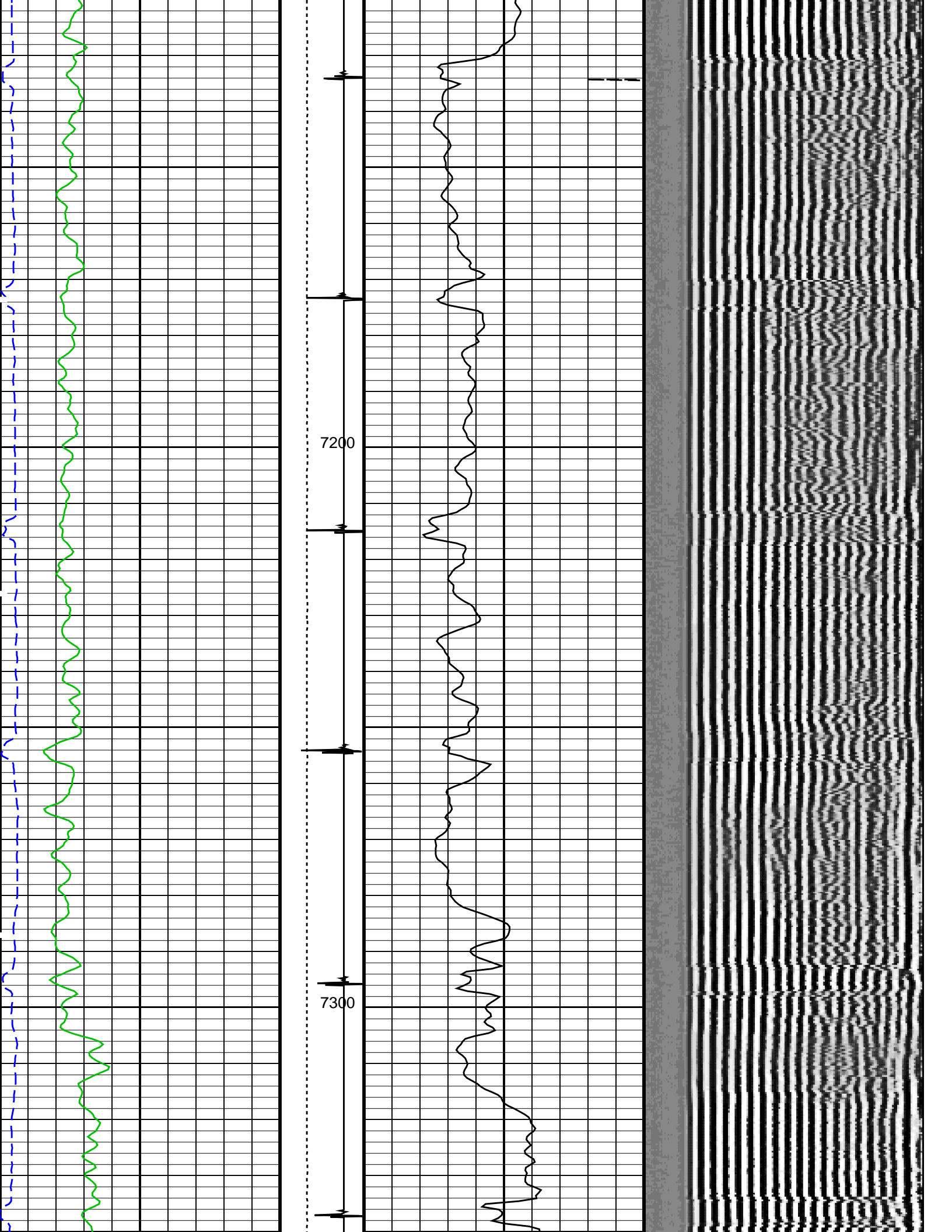


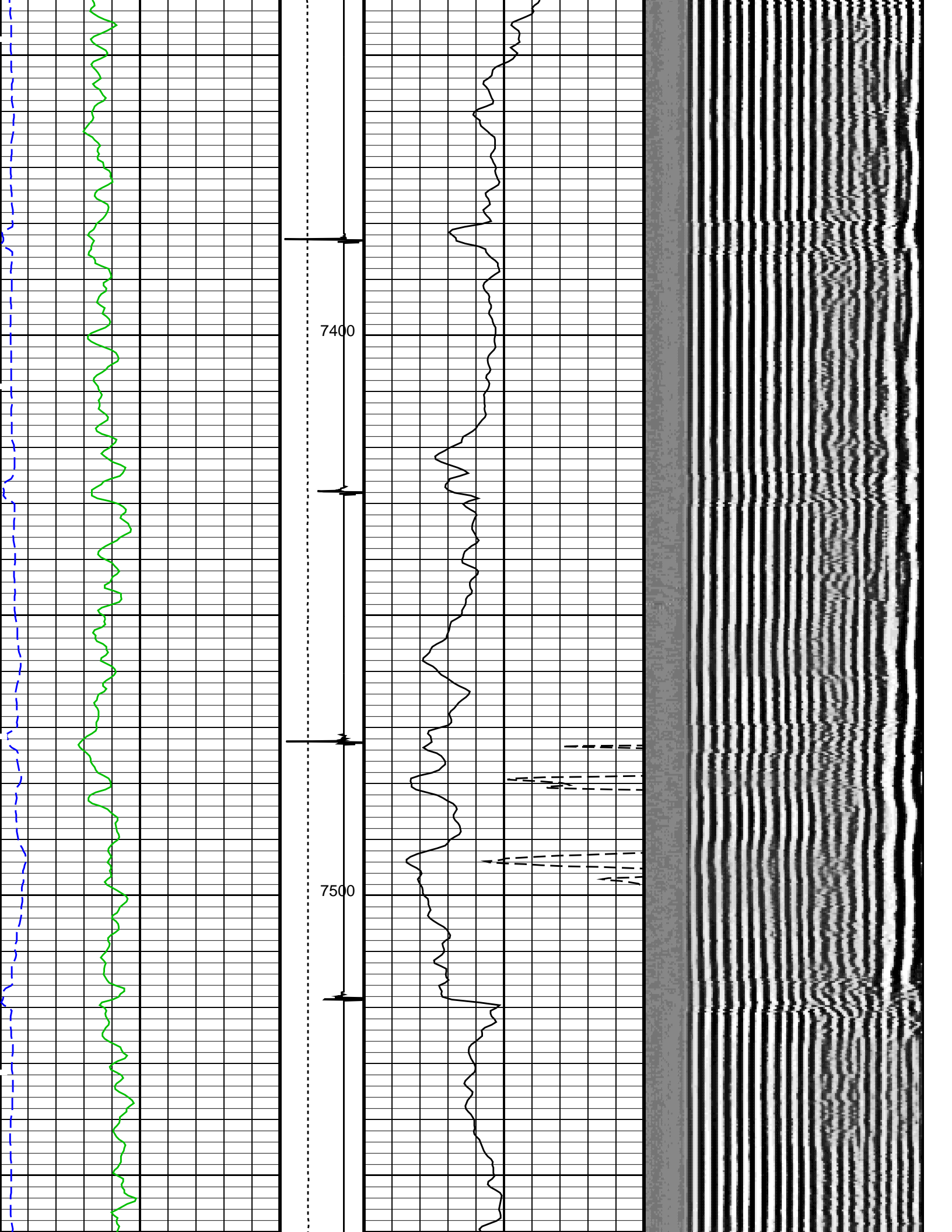


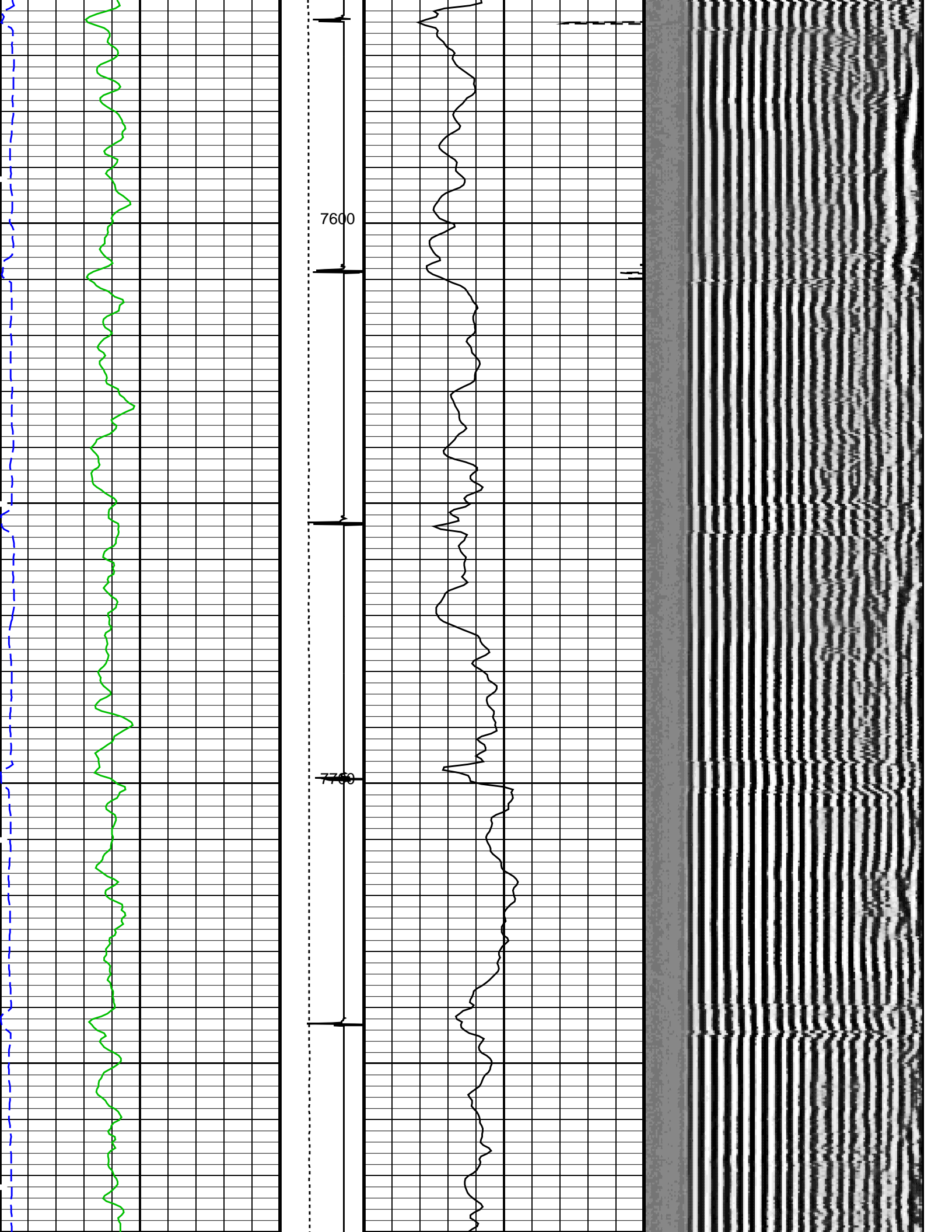


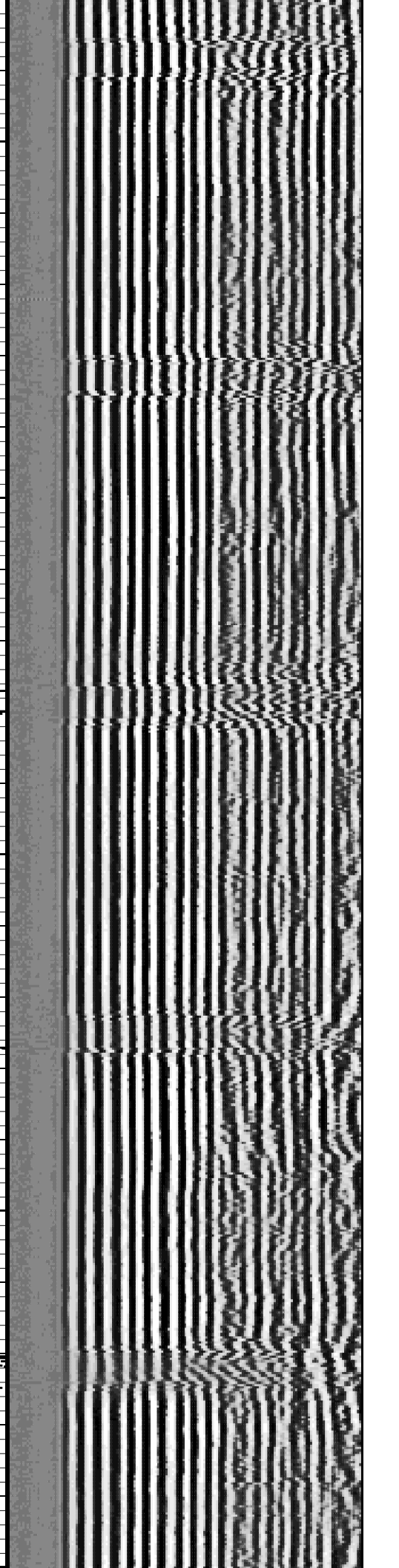
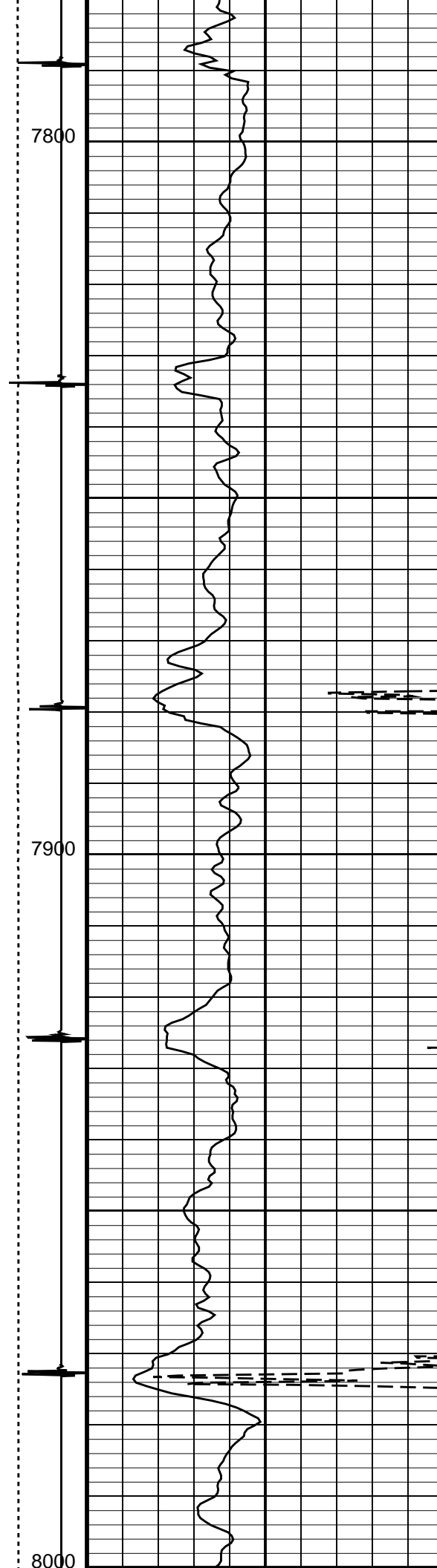
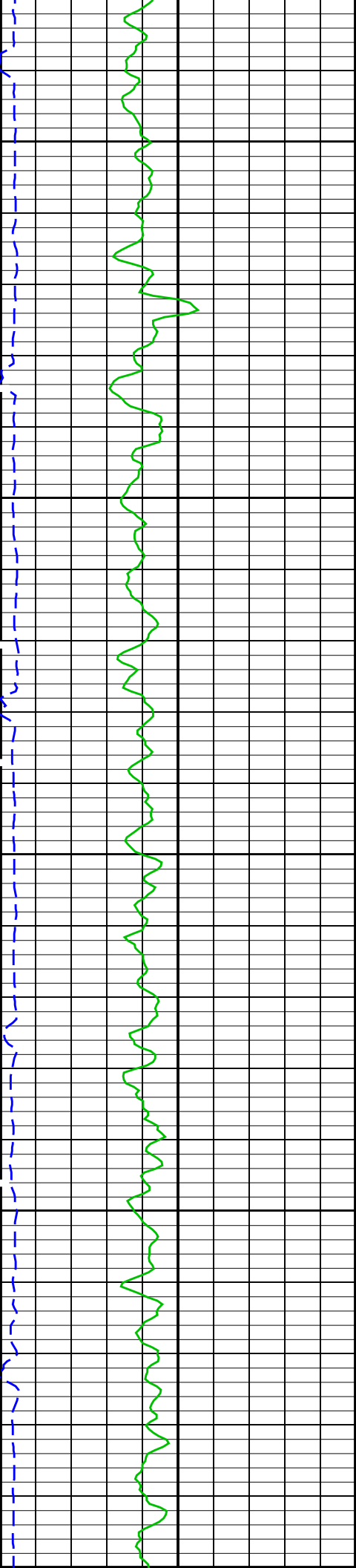


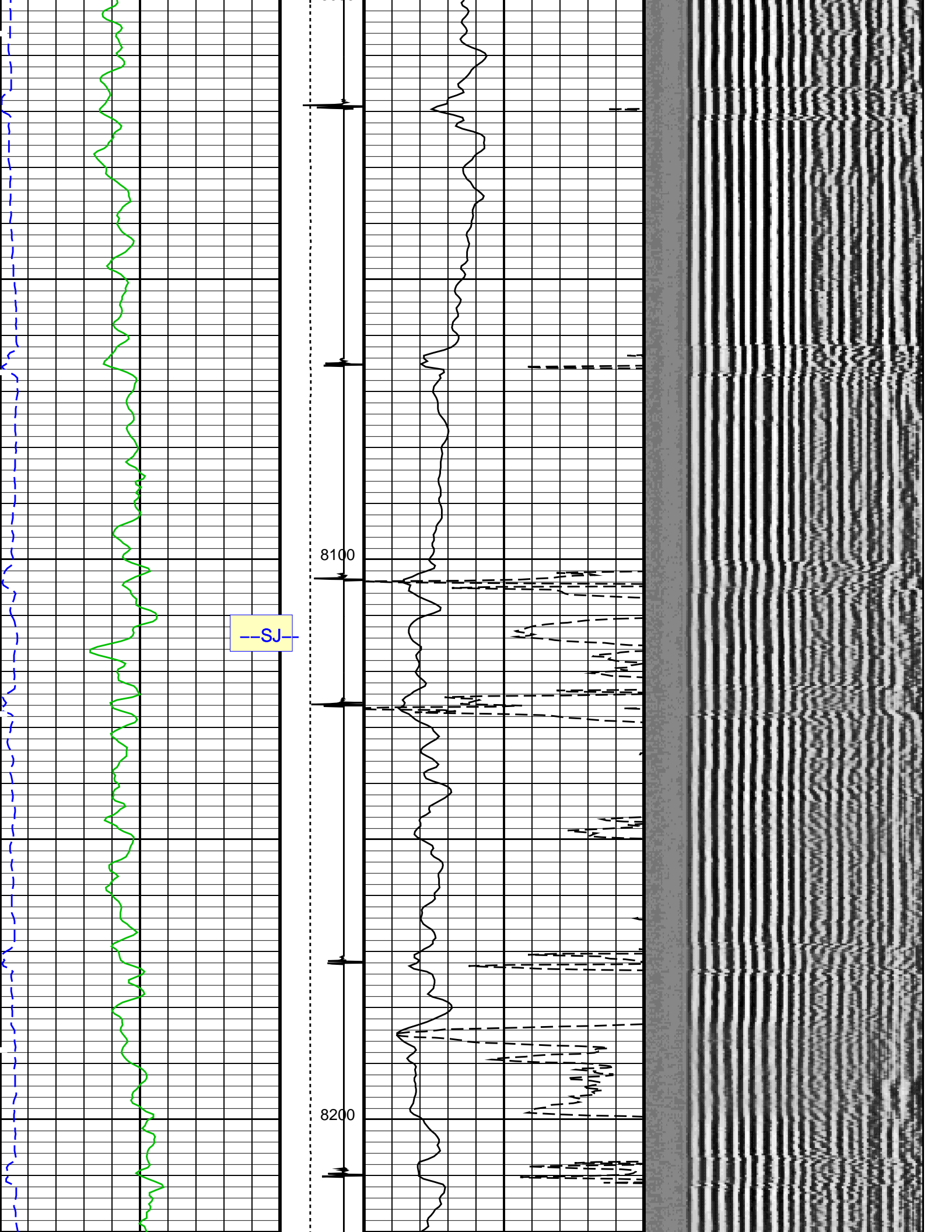


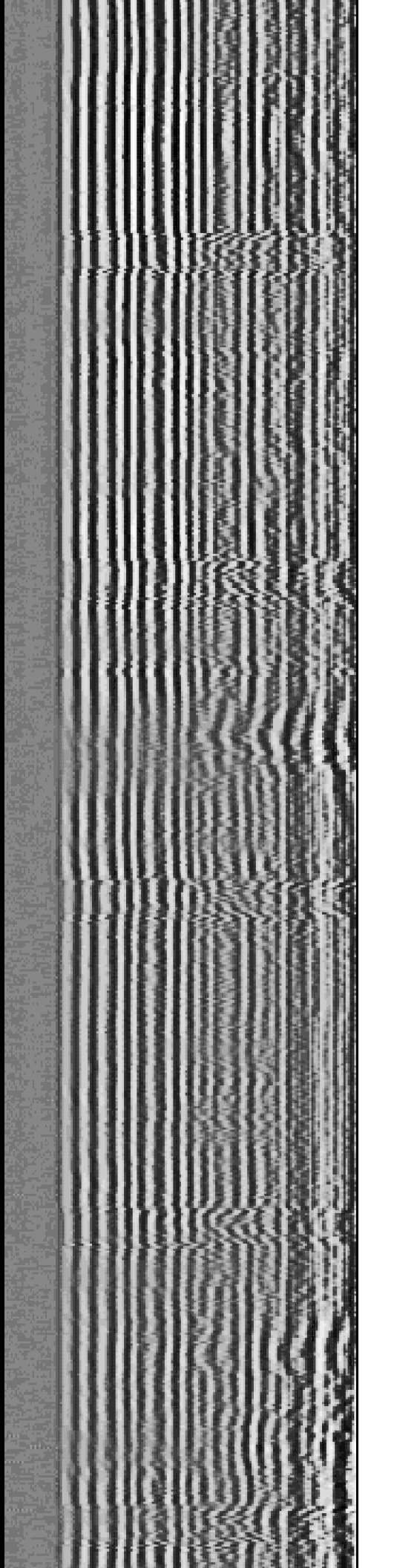
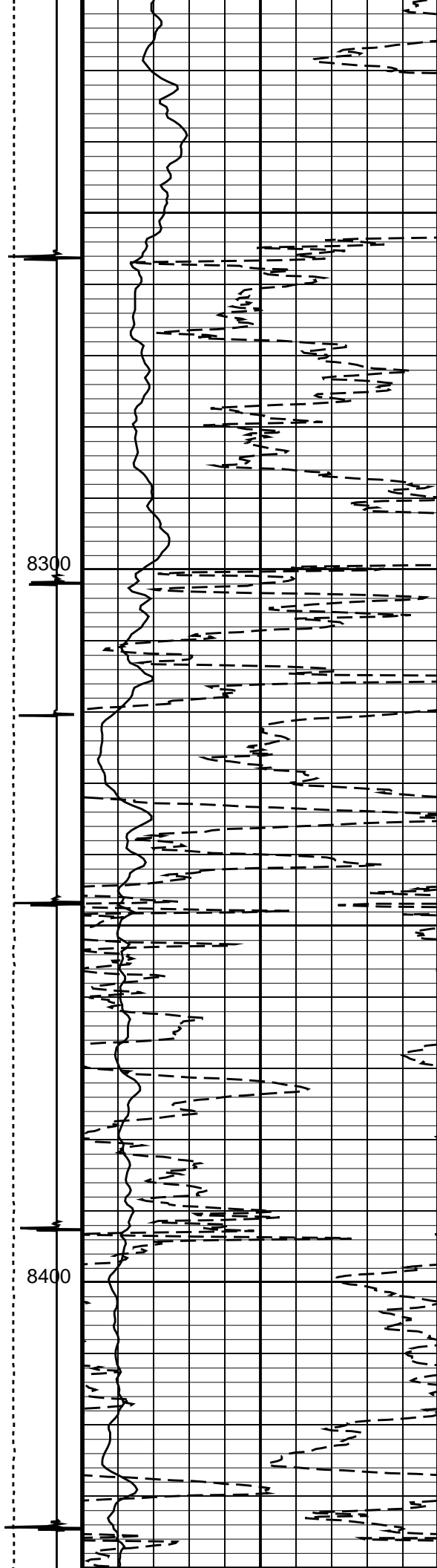
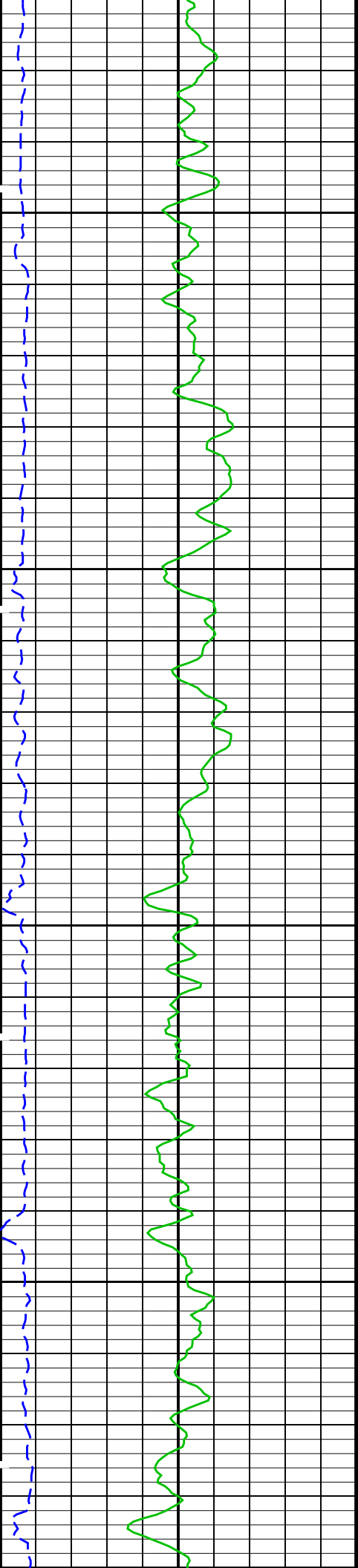


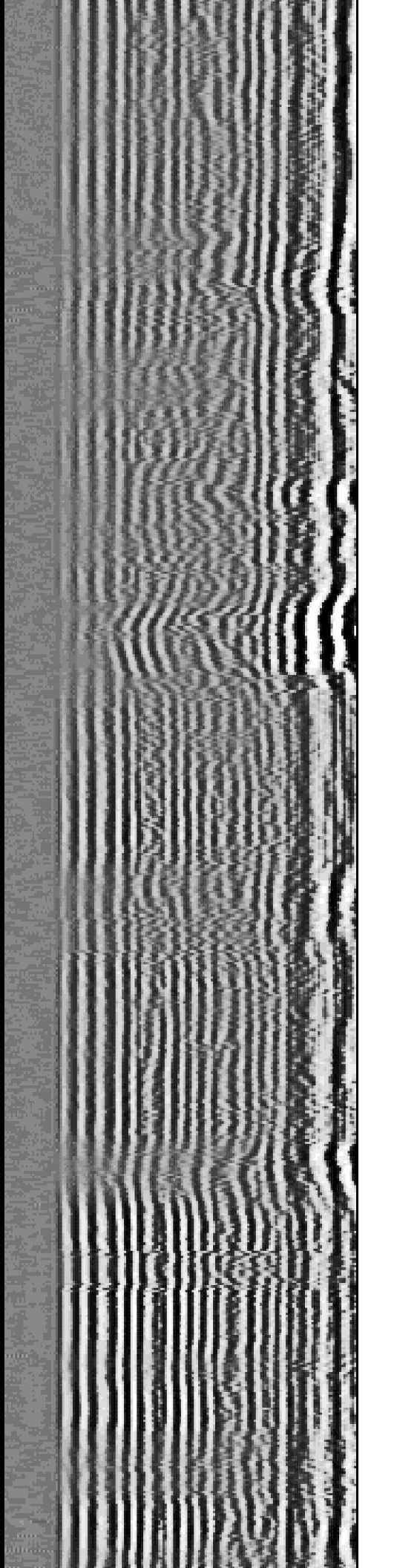
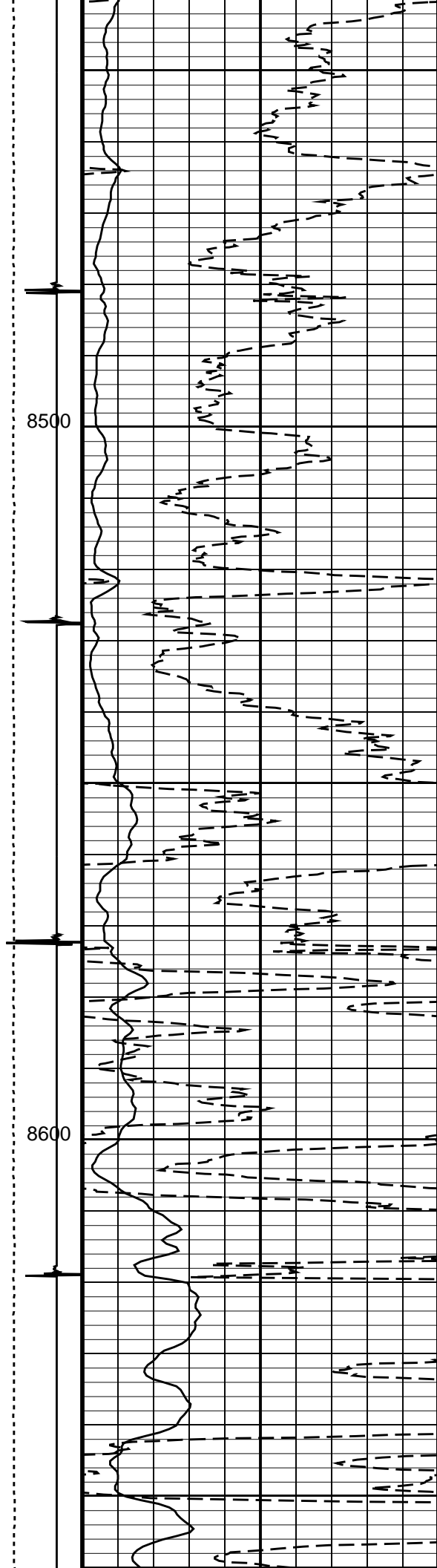
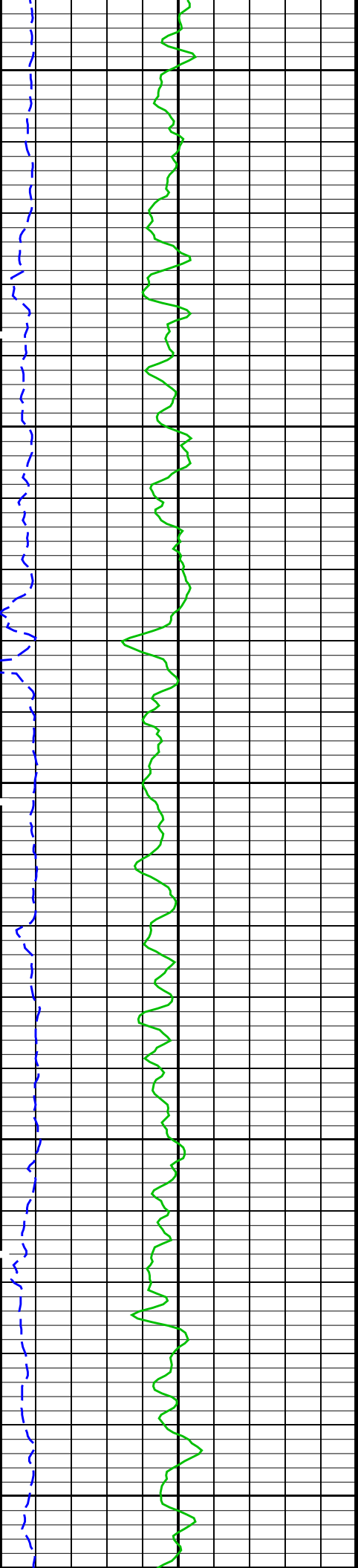


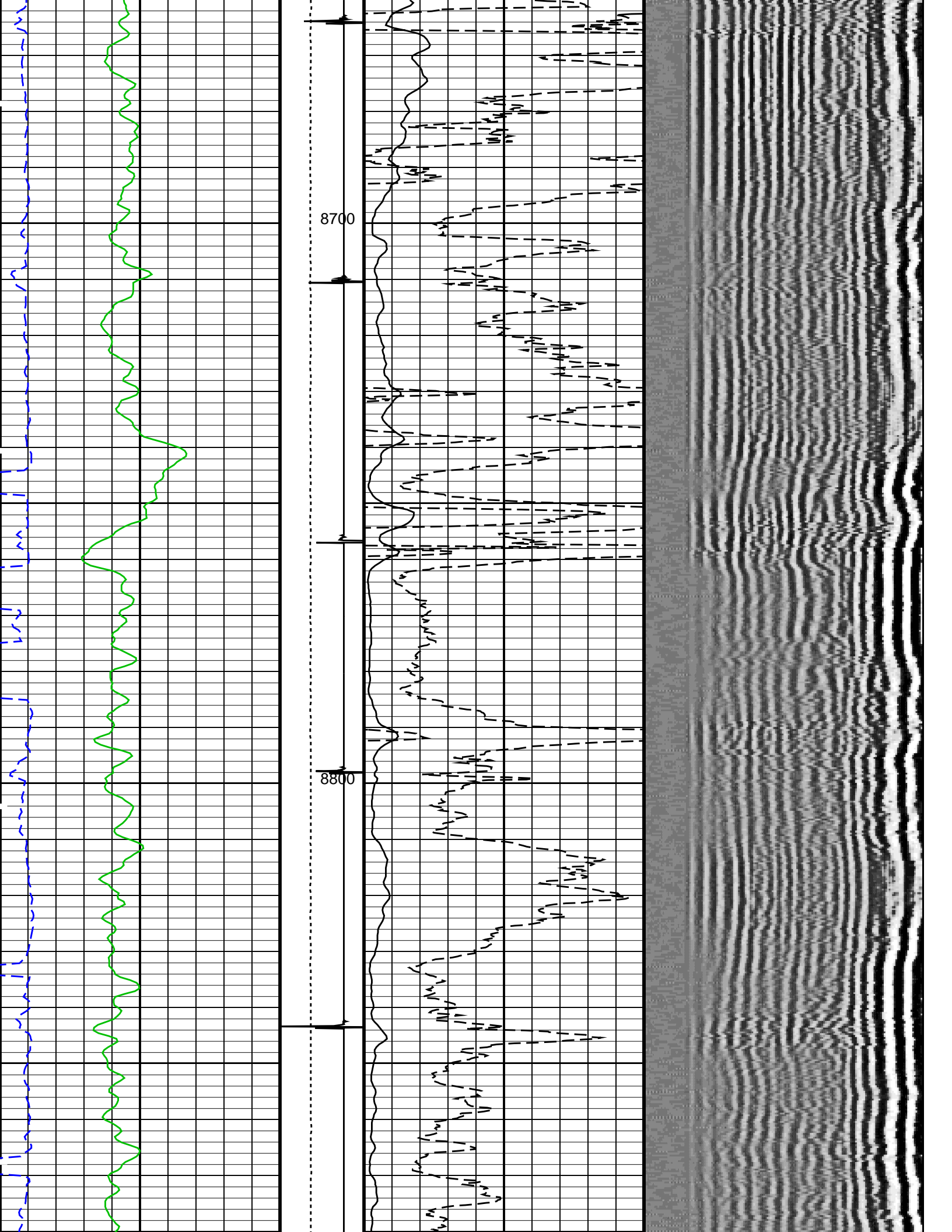


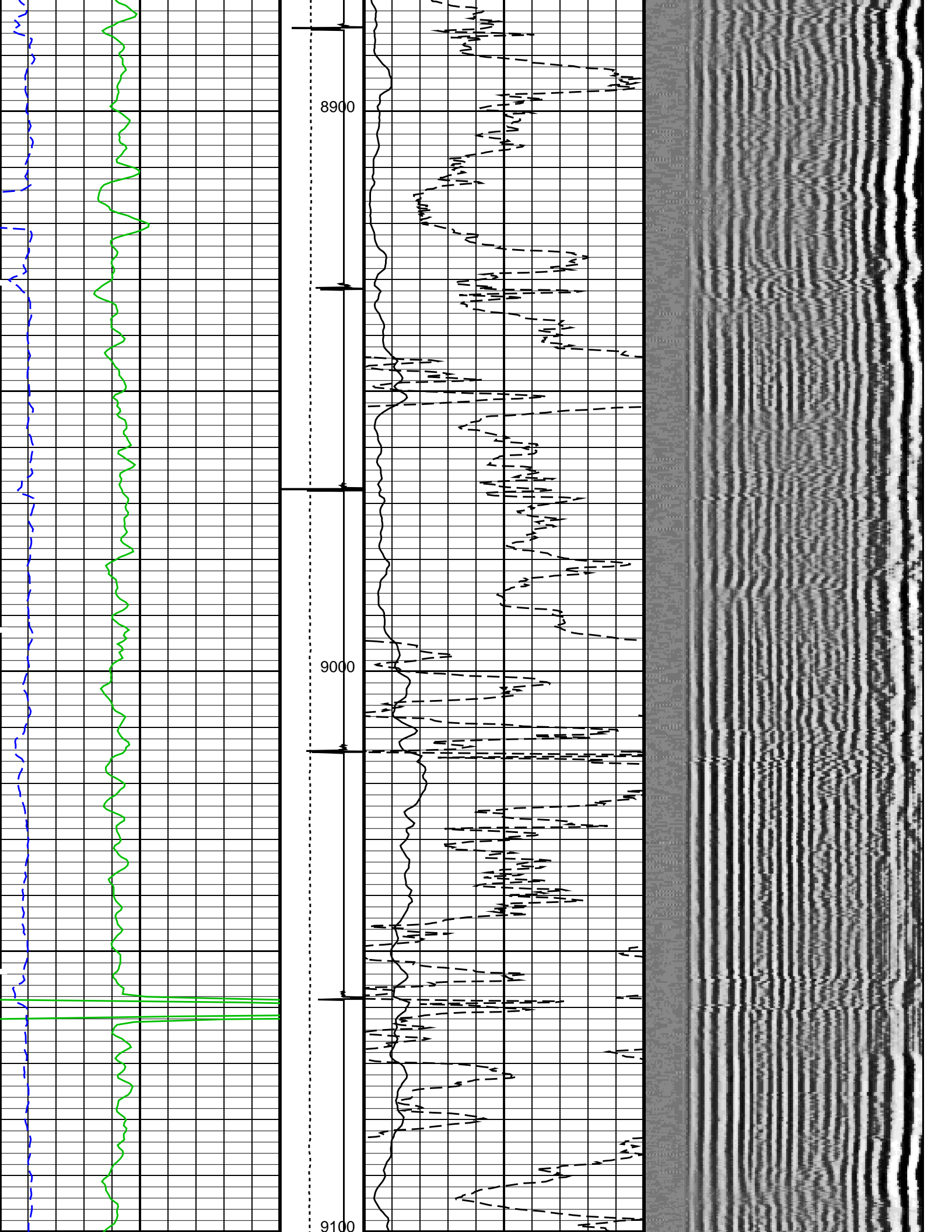


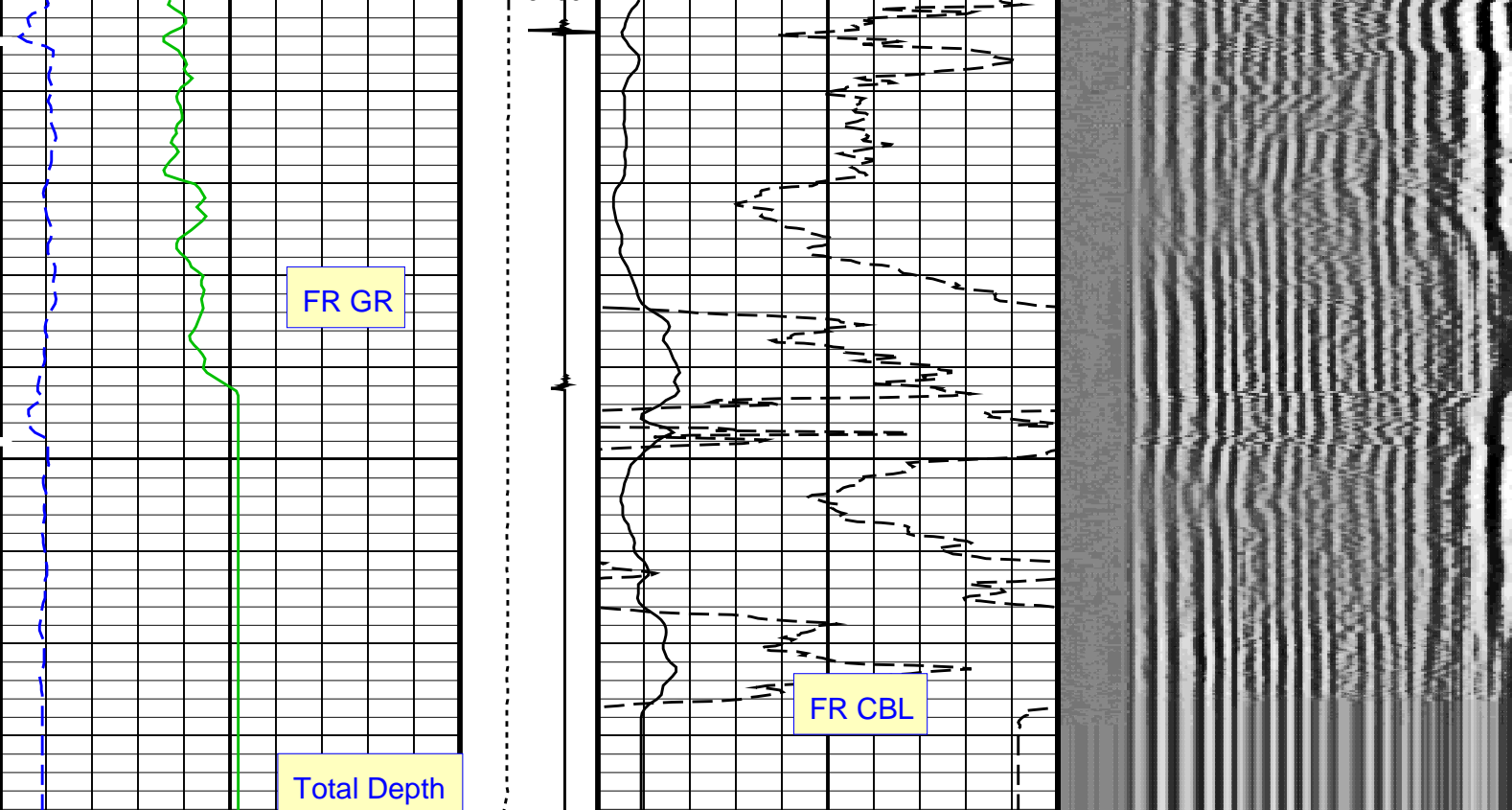












Gamma Ray (GR) (GAPI)	Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)	Min 200	Amplitude VTL VariableDensity (VDL) (US)	Max 1200
0 150	0 3000	0 100			
Transit Time (TT) (US)	Discriminat ed CCL (CCLD) (V)	CBL Amplitude (CBL) (MV)			
260 160	3 -1	0 10			

PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 26-Sep-2011 12:13

OP System Version: 19C0-187

SCMT-CB SRPC-5047-H1-2011-OP19 RST-C SRPC-5047-H1-2011-OP19
PSPT 19C0-187

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CB 8186

Current Casing Size 5.0 IN

Casing Weight 23.2000 LB/F

Expected CBL Amplitude
in Free Pipe Section 79 MV

Minimum Sonic Amplitude 5.89920 MV (100% Cement)
9.91197 MV (80% Cement)
MAP Minimum Sonic Amplitude 19.0993 MV (100% Cement)
26.5958 MV (80% Cement)

Master Calibration (Normalization)

Before Calibration (Adjustment)

Date of Master Calibration 20-AUG-2010

CBL Correction Factor 0.0678748

CBL Adjustment Factor (CBAF) 1.0

MAP 1 Correction Factor 0.0897602

MAP Adjustment Factor (MPAF) 1.0

MAP 2 Correction Factor 0.141967

MAP 3 Correction Factor 0.142014

MAP 4 Correction Factor 0.156054

MAP 5 Correction Factor	0.0955875
MAP 6 Correction Factor	0.121670
MAP 7 Correction Factor	0.0844548
MAP 8 Correction Factor	0.153227

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	229.261	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	343.261	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	79	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	0.480067	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	9.91197	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	172.261	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	9.1631	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	3	FT
MMSA	MAP Minimum Sonic Amplitude	19.0993	MV
MSA	Minimum Sonic Amplitude	5.8992	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	5.000	IN
CWEI	Casing Weight	23.20	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	6.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

Input DLIS Files

DEFAULT	SCMT_RST_PSP_007LUP	FN:6	PRODUCER	26-Sep-2011 09:35	9182.5 FT	125.5 FT
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Output DLIS Files

DEFAULT	SCMT_RST_PSP_014PUP	FN:13	PRODUCER	26-Sep-2011 12:13
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REPEAT ANALYSIS

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC.

Well: FEDERAL 36-1H (ON1)

Input DLIS Files

DEFAULT	SCMT_RST_PSP_007LUP	FN:6	PRODUCER	26-Sep-2011 09:35	9182.5 FT	125.5 FT
DEFAULT	SCMT_RST_PSP_013PUP	FN:12	PRODUCER	26-Sep-2011 12:12	6024.5 FT	5590.0 FT

Output DLIS Files

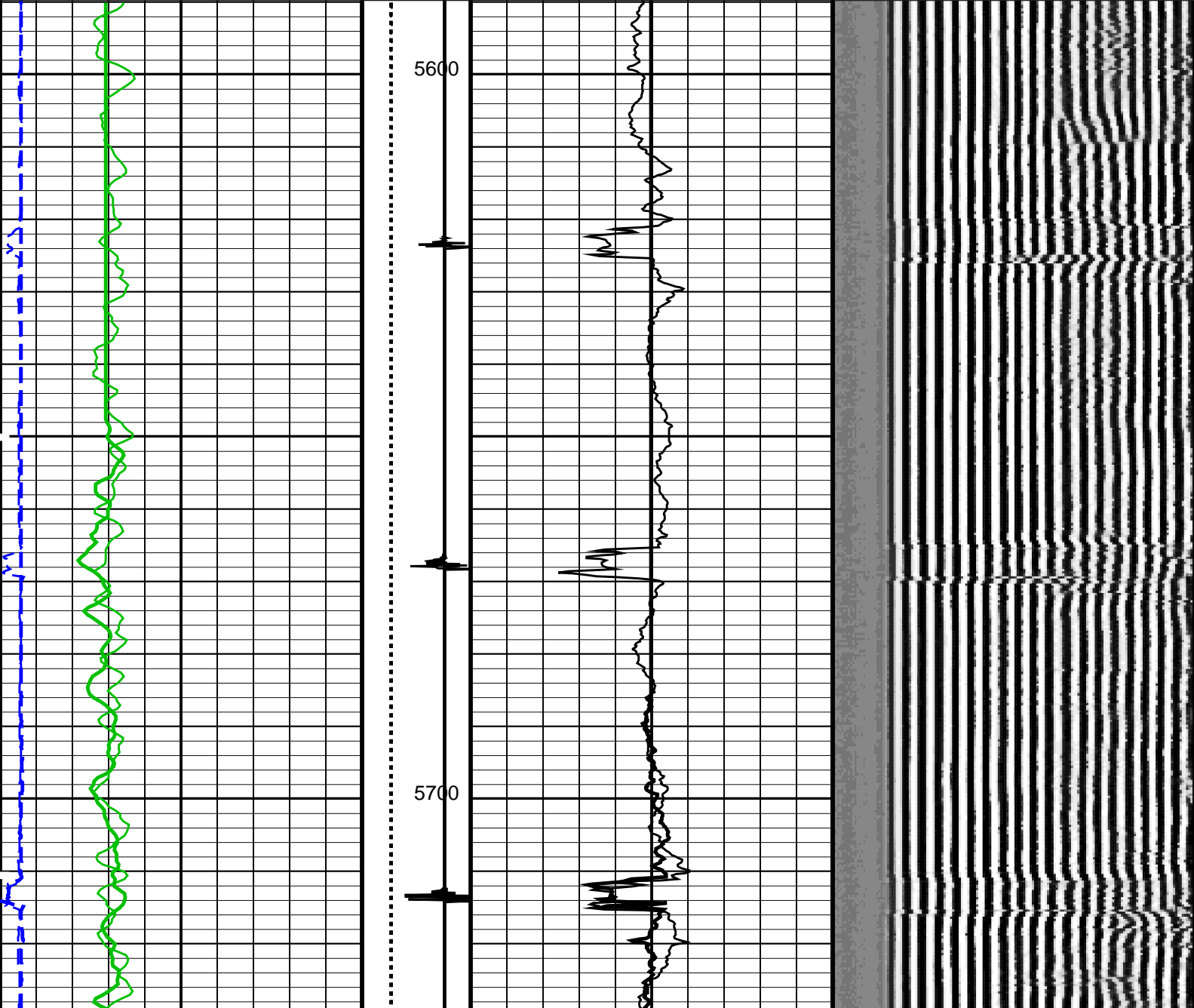
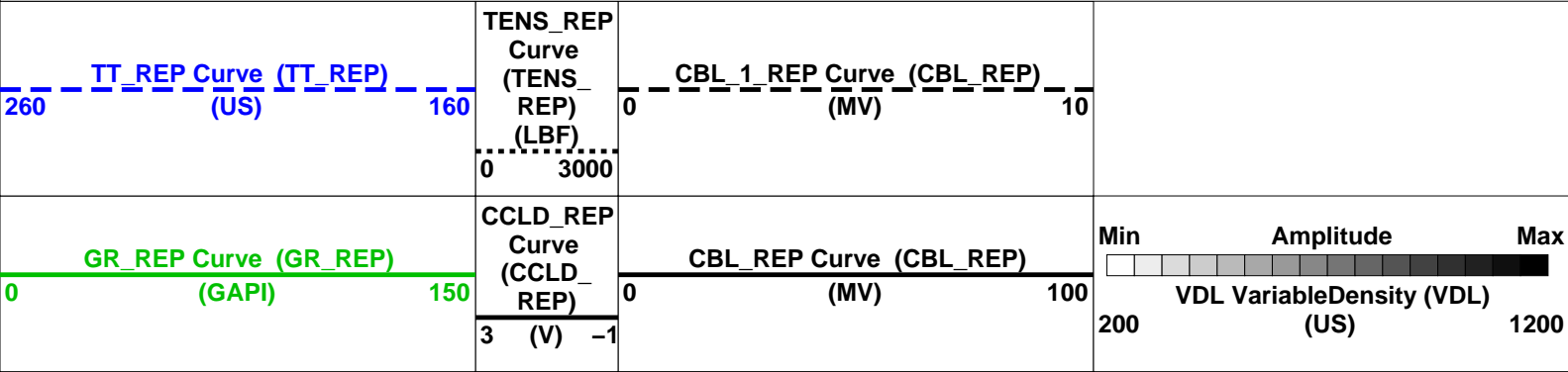
DEFAULT SCMT_RST_PSP_014PUP FN:13 PRODUCER 26-Sep-2011 12:13

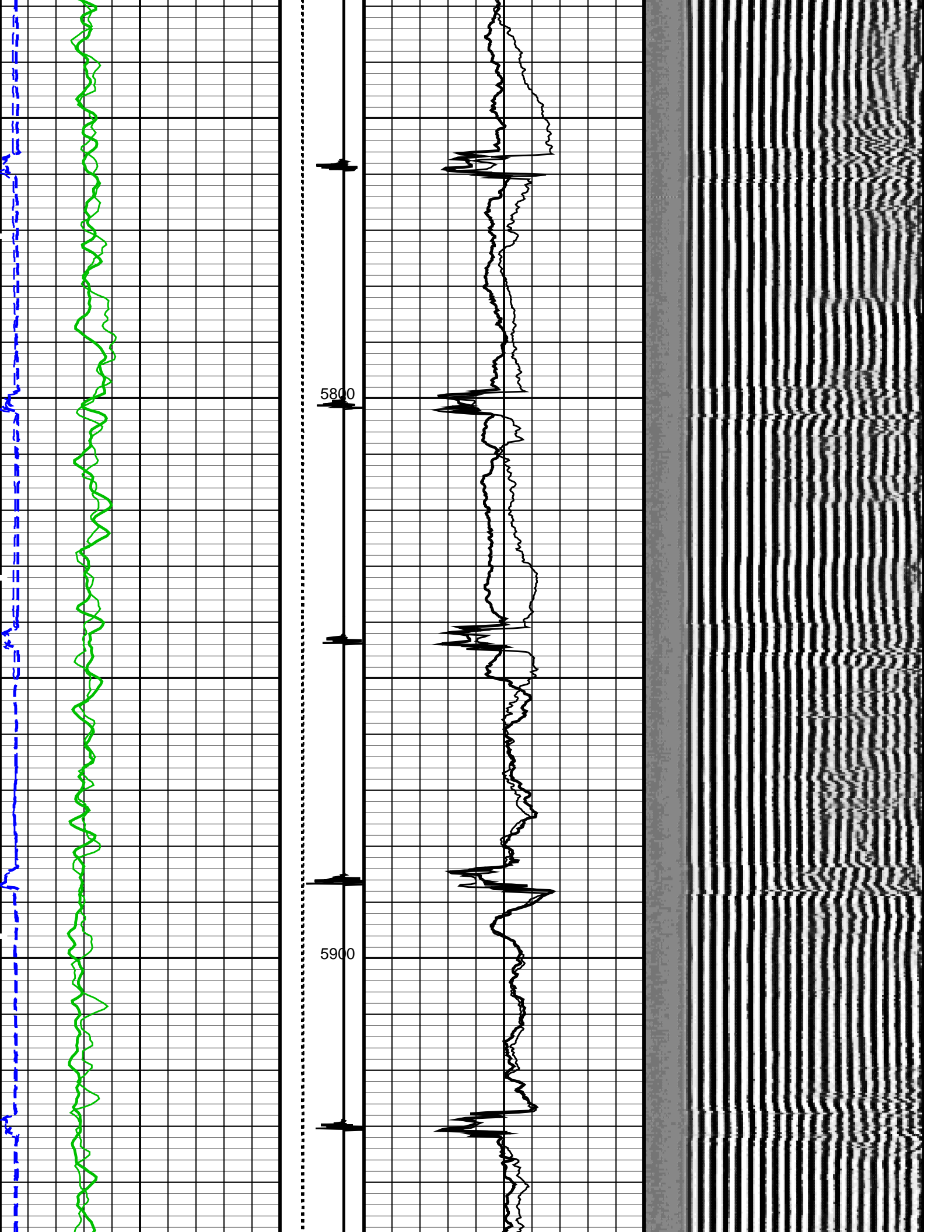
OP System Version: 19C0-187

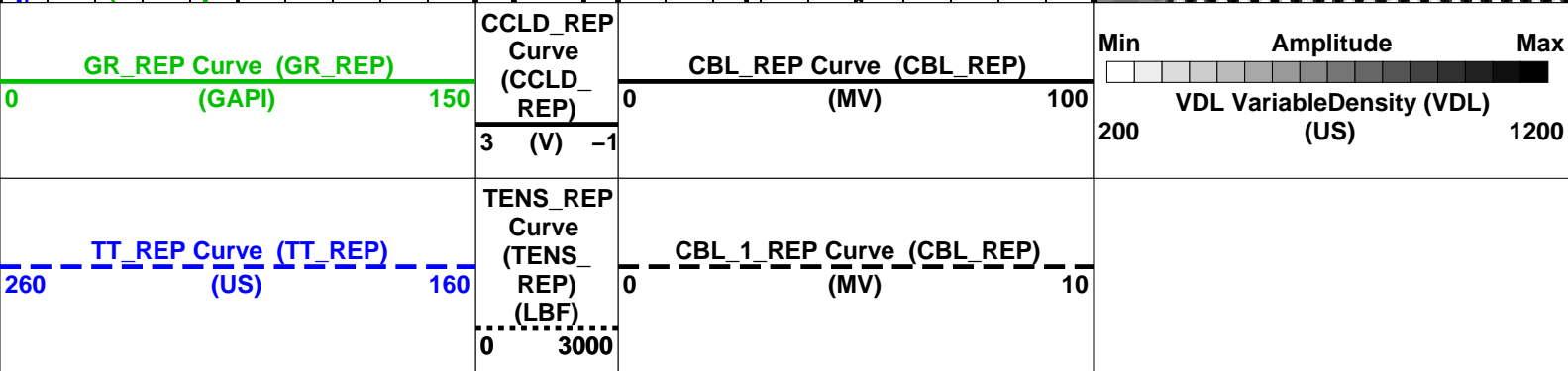
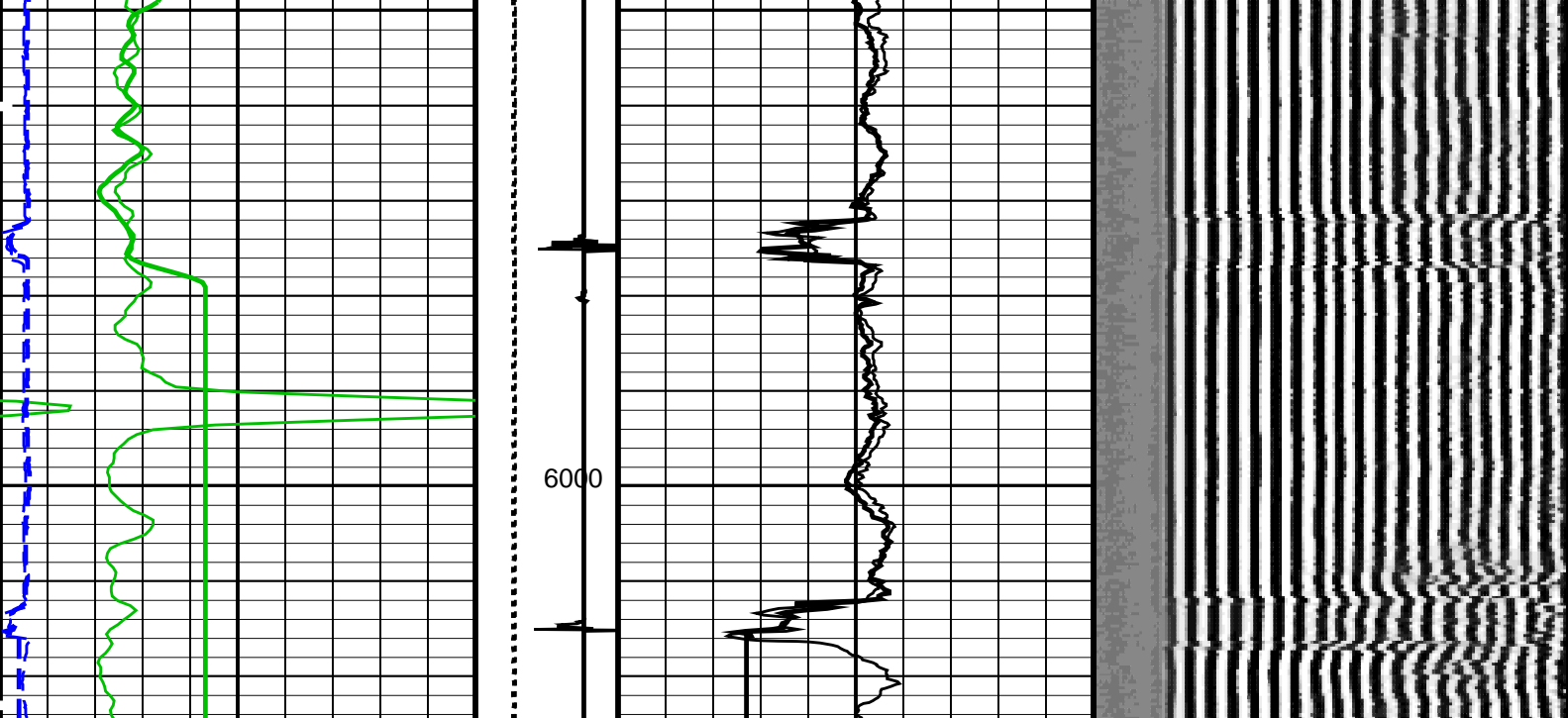
SCMT-CB SRPC-5047-H1-2011-OP19 RST-C SRPC-5047-H1-2011-OP19
PSPT 19C0-187

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: 26-Sep-2011 12:13

OP System Version: 19C0-187

SCMT-CB PSPT	SRPC-5047-H1-2011-OP19 19C0-187	RST-C	SRPC-5047-H1-2011-OP19
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<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number SCMS-CB 8186

Current Casing Size 5.0 IN

Casing Weight 23.2000 LB/F

Expected CBL Amplitude
in Free Pipe Section 79 MV

Minimum Sonic Amplitude 5.89920 MV (100% Cement)

9.91197 MV (80% Cement)

MAP Minimum Sonic Amplitude 19.0993 MV (100% Cement)

26.5958 MV (80% Cement)

Master Calibration (Normalization)

Before Calibration (Adjustment)

Date of Master Calibration 20-AUG-2010

CBL Correction Factor 0.0678748

CBL Adjustment Factor (CBAF) 1.0

MAP 1 Correction Factor 0.0897602

MAP Adjustment Factor (MPAF) 1.0

MAP 2 Correction Factor 0.141967

MAP 3 Correction Factor 0.142014

MAP 4 Correction Factor 0.156054

MAP 5 Correction Factor 0.0955875

MAP 6 Correction Factor 0.121670
MAP 7 Correction Factor 0.0844548
MAP 8 Correction Factor 0.153227

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	229.261 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	343.261 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	79 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	0.480067 IN
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FCF	CBL Fluid Compensation Factor	1
GOBO	Good Bond	9.91197 MV
MAPD	SCMT MAP Peak Detection Mode	PEAK
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	172.261 US
MAPT	SCMT MAP Fixed Threshold Level	30 MV
MATT	Maximum Attenuation	9.1631 DB/F
MCCF	MAP Cement Type Compensation Factor	1
MCI	Minimum Cemented Interval for Isolation	3 FT
MMSA	MAP Minimum Sonic Amplitude	19.0993 MV
MSA	Minimum Sonic Amplitude	5.8992 MV
PEDE	Peak Detection On/Off Switch in Playback	OFF
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ZCMT	Acoustic Impedance of Cement	6.8 MRAY
System and Miscellaneous		
CSIZ	Current Casing Size	5.000 IN
CWEI	Casing Weight	23.20 LB/F
DFD	Drilling Fluid Density	8.40 LB/G
DO	Depth Offset for Playback	6.0 FT
DORL	Depth Offset for Repeat Analysis	0.0 FT
PP	Playback Processing	NORMAL
TD	Total Depth	-50000 FT

Input DLIS Files

DEFAULT	SCMT_RST_PSP_007LUP	FN:6	PRODUCER	26-Sep-2011 09:35	9182.5 FT	125.5 FT
DEFAULT	SCMT_RST_PSP_013PUP	FN:12	PRODUCER	26-Sep-2011 12:12	6024.5 FT	5590.0 FT

Output DLIS Files

DEFAULT	SCMT_RST_PSP_014PUP	FN:13	PRODUCER	26-Sep-2011 12:13
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COEFFICIENTS

MAXIS Field Log

Client: ENCANA OIL & GAS (USA) INC.

Field: HORSETHIEF CREEK

Well: FEDERAL 36-1H (ON1)

Run date: 26-Sep-2011

Tool:

PSP

Sub Type:

PBMS

Sensor:

Clock Model

PBMS Digitalization Clock

Sonde Serial NB

Sensor Serial NB 3779

Calib Date ddmmyy 090107

Matrix Size 16

Coeff CRC D285

Clock Coeff

	Temp**0	Temp**1	Temp**2
Temp**0	-.210501098404E+03	-.537713340627E+01	-.752421519422E-01
	Temp**3	Temp**4	Temp**5
Temp**0	+.630273975887E-03	+.266728381738E-05	0.0

Client: ENCANA OIL & GAS (USA) INC.

Field: HORSETHIEF CREEK

Well: FEDERAL 36-1H (ON1)

Run date: 26-Sep-2011

Tool:

PSP

Sub Type:

PBMS

Sensor:

Sapphire

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB

COEFFICIENTS FOR SAPPHIRE PBMS-A.3779 S/N:

Sensor Serial NB 3779

Calib Date ddmmyy 090107

Matrix Size 66

Coeff CRC 4C82

Pres Coeff

	Tt**0	Tt**1	Tt**2
Tp**0	-.611876617639E+04	+.471061007964E+04	-.216447354932E+04
Tp**1	+.371836126905E+04	-.234756196935E+04	+.129149325686E+04
Tp**2	+.193143980957E+02	-.189348218853E+01	-.341812471126E+01
Tp**3	-.568815065386E+01	+.200079683569E+01	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0

Tt**3 Tt**4 Tt**5

Tp**0	+380249508124E+03	-.247683004908E+02	0.0
Tp**1	-.227135245080E+03	+1.146352372057E+02	0.0
Tp**2	0.0	0.0	0.0
Tp**3	0.0	0.0	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB :
 Sensor Serial NB 3779
 Calib Date ddmmyy 090107
 Matrix Size 66
 Coeff CRC C39E

Temp Coeff

	Tp**0	Tp**1	Tp**2
Tt**0	-.278275571347E+03	+251216271916E+01	-.820715649824E+00
Tt**1	+598349067015E+02	-.107326373545E+01	+652890183203E-01
Tt**2	+1.109160002120E+02	+262812193556E+00	-.450134240377E-02
Tt**3	-.673302171285E+00	-.213772918779E-01	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

	Tp**3	Tp**4	Tp**5
Tt**0	+151507143209E+00	-.592670012996E-02	0.0
Tt**1	+127486538512E-01	-.437897076104E-02	0.0
Tt**2	0.0	0.0	0.0
Tt**3	0.0	0.0	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

Client:	ENCANA OIL & GAS (USA) INC.	Tool:	PSP
Field:	HORSETHIEF CREEK	Sub Type:	PBMS
Well:	FEDERAL 36-1H (ON1)	Sensor:	GR
Run date:	26-Sep-2011		

PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.34552,TOOL PBMS-AA3779. SENSOR S/N:
34552
030606
12
3AE5

GR HV Rt

	Rt**0	Rt**1
Rt**0	+200000000000e+04	+214000000000e+04

Client: ENCANA OIL & GAS (USA) INC.

Field: HORSETHIEF CREEK

Well: FEDERAL 36-1H (ON1)

Run date: 26-Sep-2011

Tool: PSP

Sub Type: PBMS

Sensor: WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS-A.3779 S/N:
3779
090107
16
3846

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	+492135102627E+02	-.278827553804E+03	+142867554561E+03
	Tt**3	Tt**4	Tt**5
Tt**0	-.233378392336E+02	+145553494493E+01	0.0

Company: ENCANA OIL & GAS (USA) INC.



Well: FEDERAL 36-1H (ON1)
Field: HORSETHIEF CREEK
County: GARFIELD
State: COLORADO

CEMENT BOND LOG
CBL- VDL
GAMMA RAY - CCL