

DEPTH SUMMARY LISTING

Date Created: 10-JUL-2012 13:51:17

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	5873	Serial Number:	5006	Serial Number:	391
Calibration Date:	20-DEC-2011	Calibration Date:	21-JUN-2011	Length:	24000 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:	-3	Calibration RMS:	15		
Wheel Correction 2:	-3	Calibration Peak Error:	9		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	200.00 FT
Rig Up Length At Bottom:	200.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	0.00 FT
Tool Zero Check At Surface:	0.00 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH PROCEDURES USED
2. PRIMARY DEPTH CONTROL: IDW
3. SECONDARY DEPTH CONTROL: DRUM COUNTER (SWPT)
- 4.
- 5.
- 6.

DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: RESERVOIR SATUATION	OS1:
OS2: TOOL	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FIRST RUN IN HOLE CORRELATED TO DOWN LOG	
TOOL RAN AS PER TOOL SKETCH	
ENTRANCE TIME: 17:45	
TIME AT BOTTOM: 18:45	
EXIT TIME: 23:30	
TOTAL DEPTH = 11385 FT	

MAX RECORDED TEMPERATURE = 281DEGF	
MAX RECORDED PRESSURE = 4622 PSIA	
STRETCH CORRECTION = 8 FT	
ESTIMATED TOP OF CEMENT 600 FT	
EXPECTED CBL AMP IN FREE PIPE 80 MV	
CBAF .90	
CYCLE SKIPPING DUE TO GOOD BOND	
MAIN LOG RAN WITH ZERO SURFACE PRESSURE	
THANK YOU FOR CHOOSING SCHLUMBERGER!	

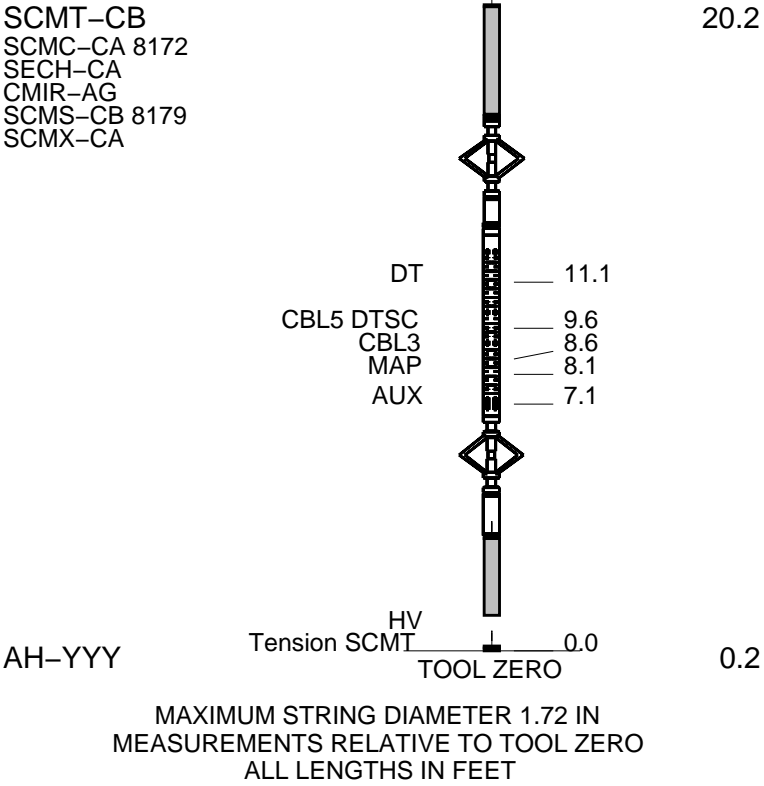
RUN 1 SERVICE ORDER #: C8Q2-00015 PROGRAM VERSION: 19C0-187 FLUID LEVEL: 22 ft			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

RUN 1		RUN 2	
1	2	1	2
3	4	3	4
5	6	5	6
7	8	7	8
9	10	9	10
11	12	11	12
13	14	13	14
15	16	15	16
17	18	17	18
19	20	19	20
21	22	21	22
23	24	23	24
25	26	25	26
27	28	27	28
29	30	29	30
31	32	31	32
33	34	33	34
35	36	35	36
37	38	37	38
39	40	39	40
41	42	41	42
43	44	43	44
45	46	45	46
47	48	47	48
49	50	49	50
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53	54	53	54
55	56	55	56
57	58	57	58
59	60	59	60
61	62	61	62
63	64	63	64
65	66	65	66
67	68	67	68
69	70	69	70
71	72	71	72
73	74	73	74
75	76	75	76
77	78	77	78
79	80	79	80
81	82	81	82
83	84	83	84
85	86	85	86
87	88	87	88
89	90	89	90
91	92	91	92
93	94	93	94
95	96	95	96
97	98	97	98
99	100	99	100

WITM-A PSC_16MHZ	SURFACE EQUIPMENT	
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DOWNHOLE EQUIPMENT			
MH-22			53.3
MH-22			
Detail MT			
AH-38	TelStatus		51.7
PSPT	CTEM		51.5
PSC-A			51.5
PSPT-A			
PSTC-A			
PBMS-A 3779	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 197			
RSC-E			
RSS-A 255			
RSXH-A 309			
RSX-E			
	RSC-A Far		34.1
	RSC-A PNG		
	RSC-A Nea		
	RSX-A PNG		33.6



Schlumberger

MAIN PASS CBL VDL

MAXIS Field Log

Company: ENCANA OIL & GAS (USA) INC. Well: DW 8608E-28 (P28496)

Input DLIS Files

DEFAULT Splice_SCMT_RST_PSP_082CUP FN:1 PRODUCER 11-Jul-2012 22:23 11391.5 FT 110.0 FT

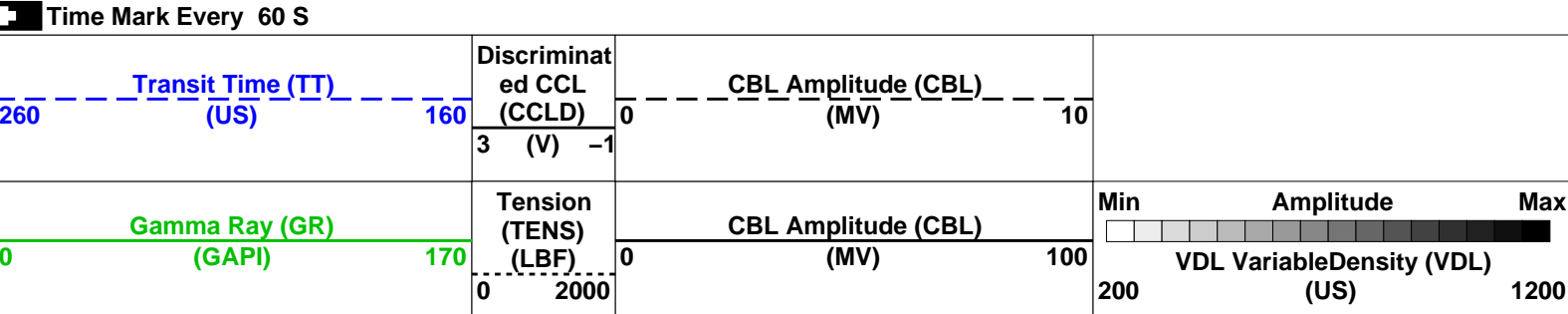
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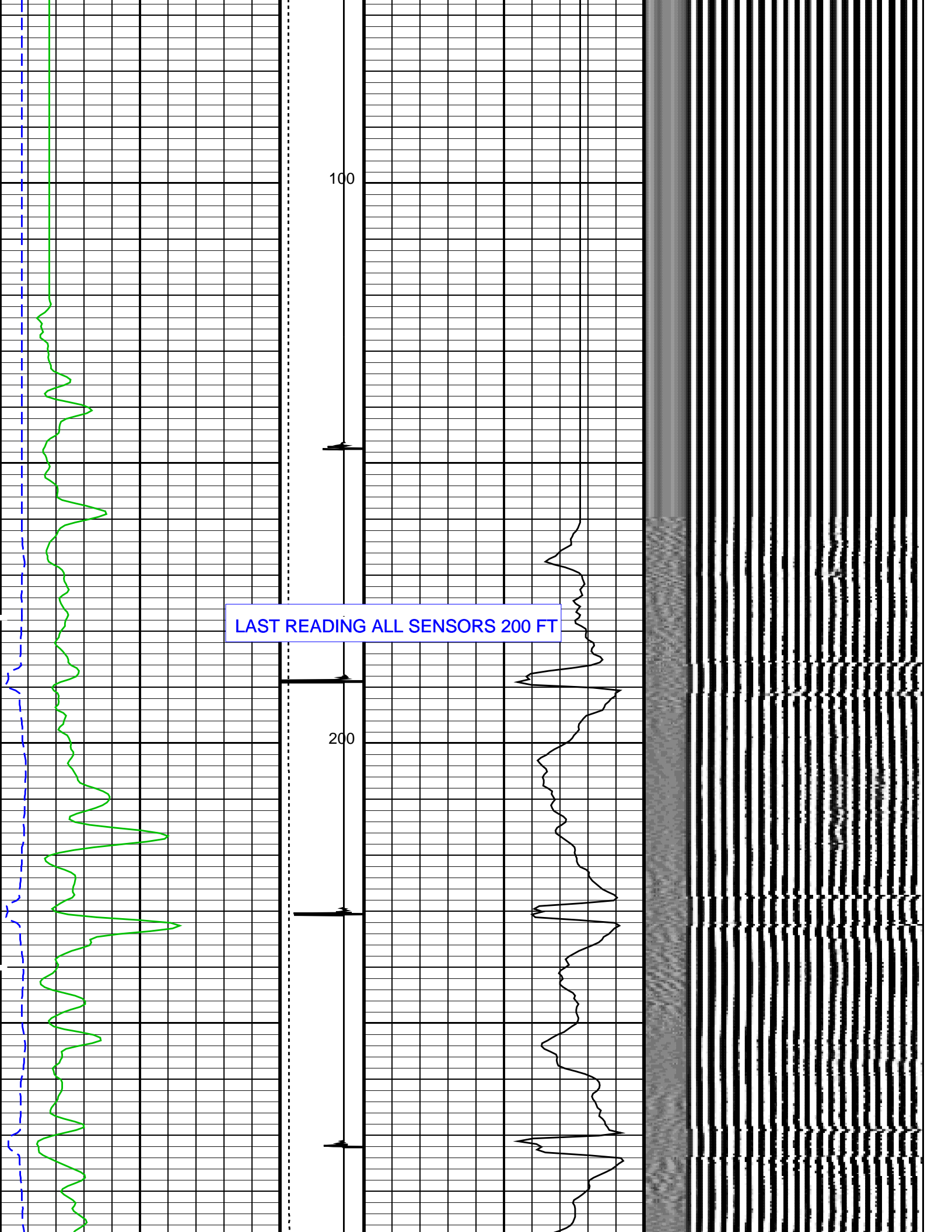
DEFAULT SCMT_RST_PSP_085PUP FN:75 PRODUCER 11-Jul-2012 22:58 11399.5 FT 66.5 FT

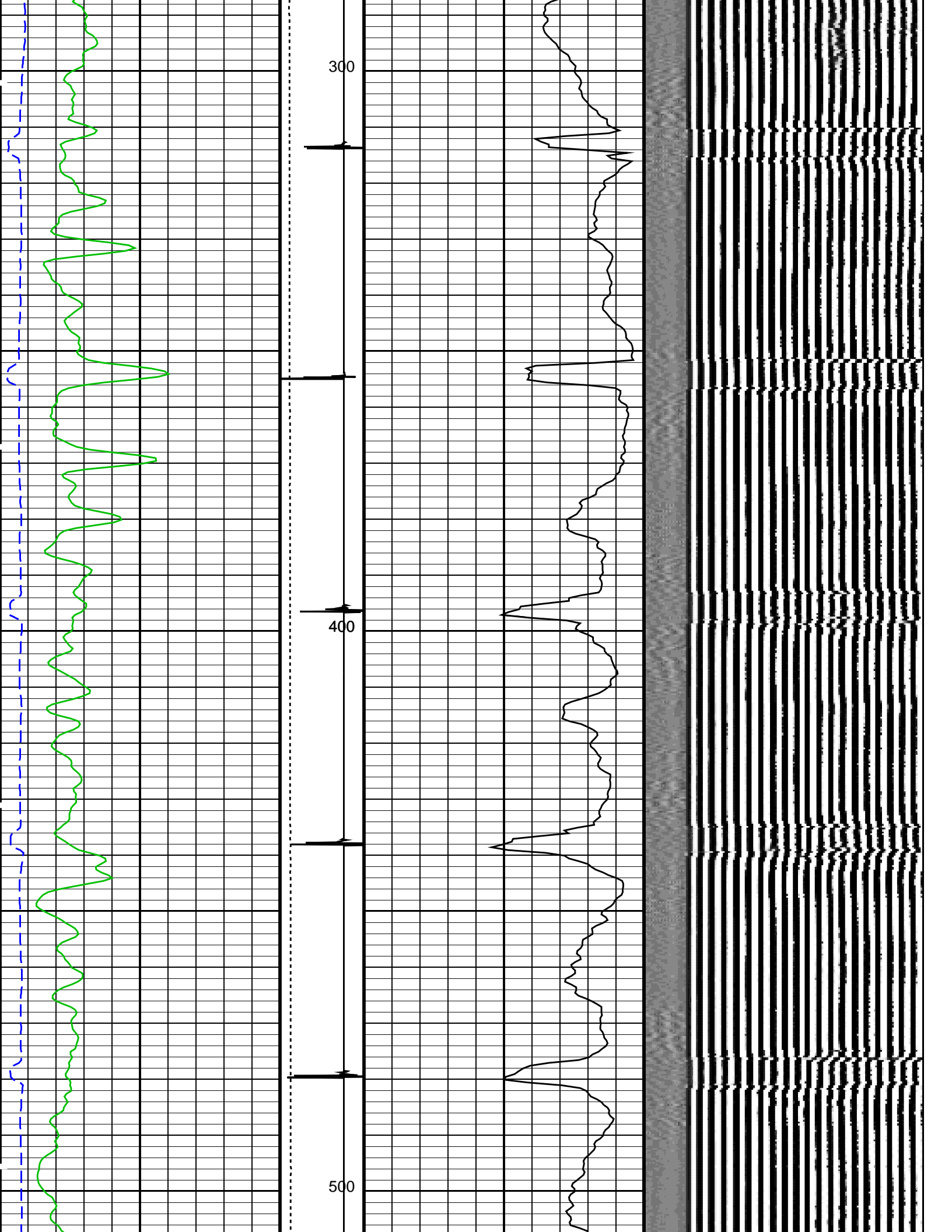
OP System Version: 19C0-187

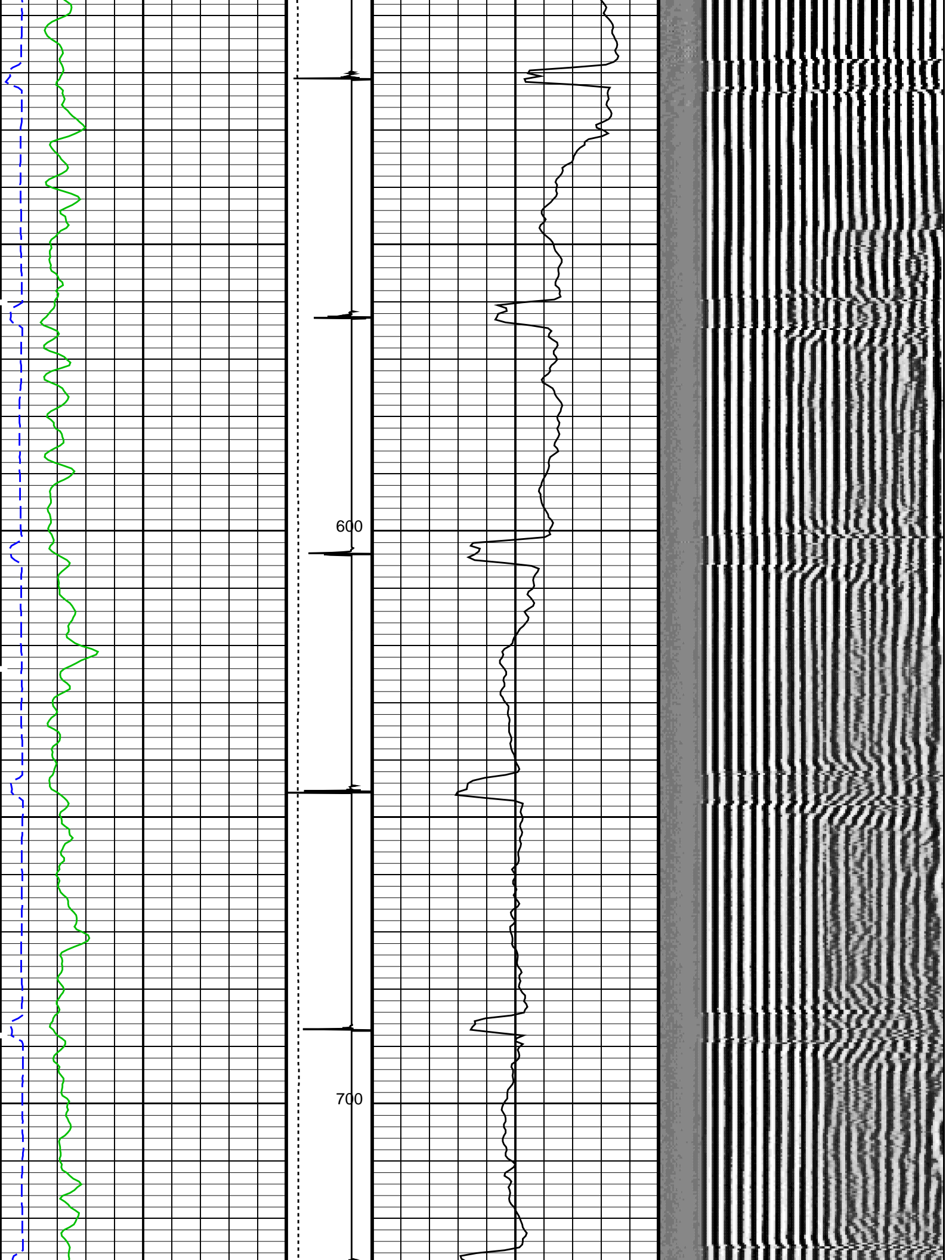
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PSPT 19C0-187

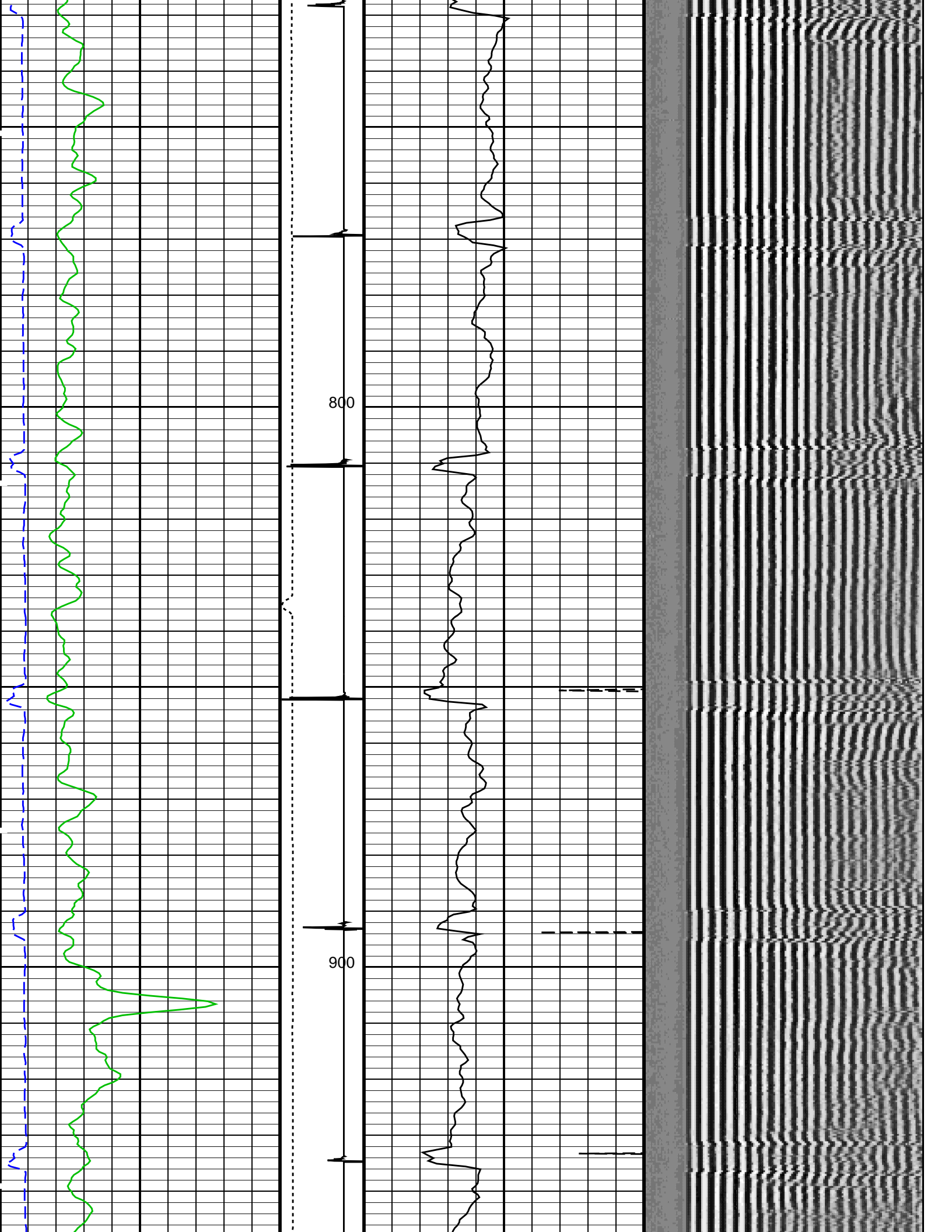
PIP SUMMARY

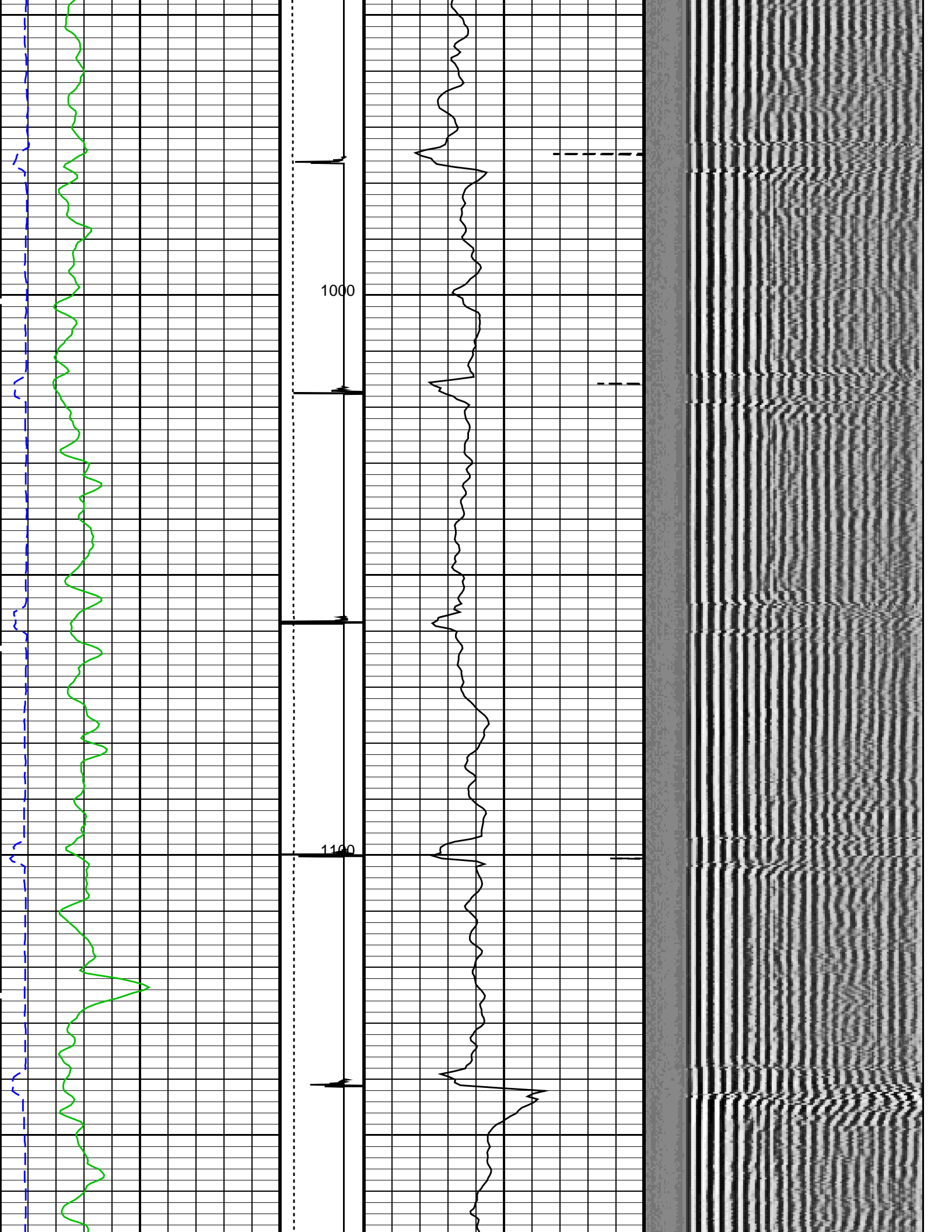


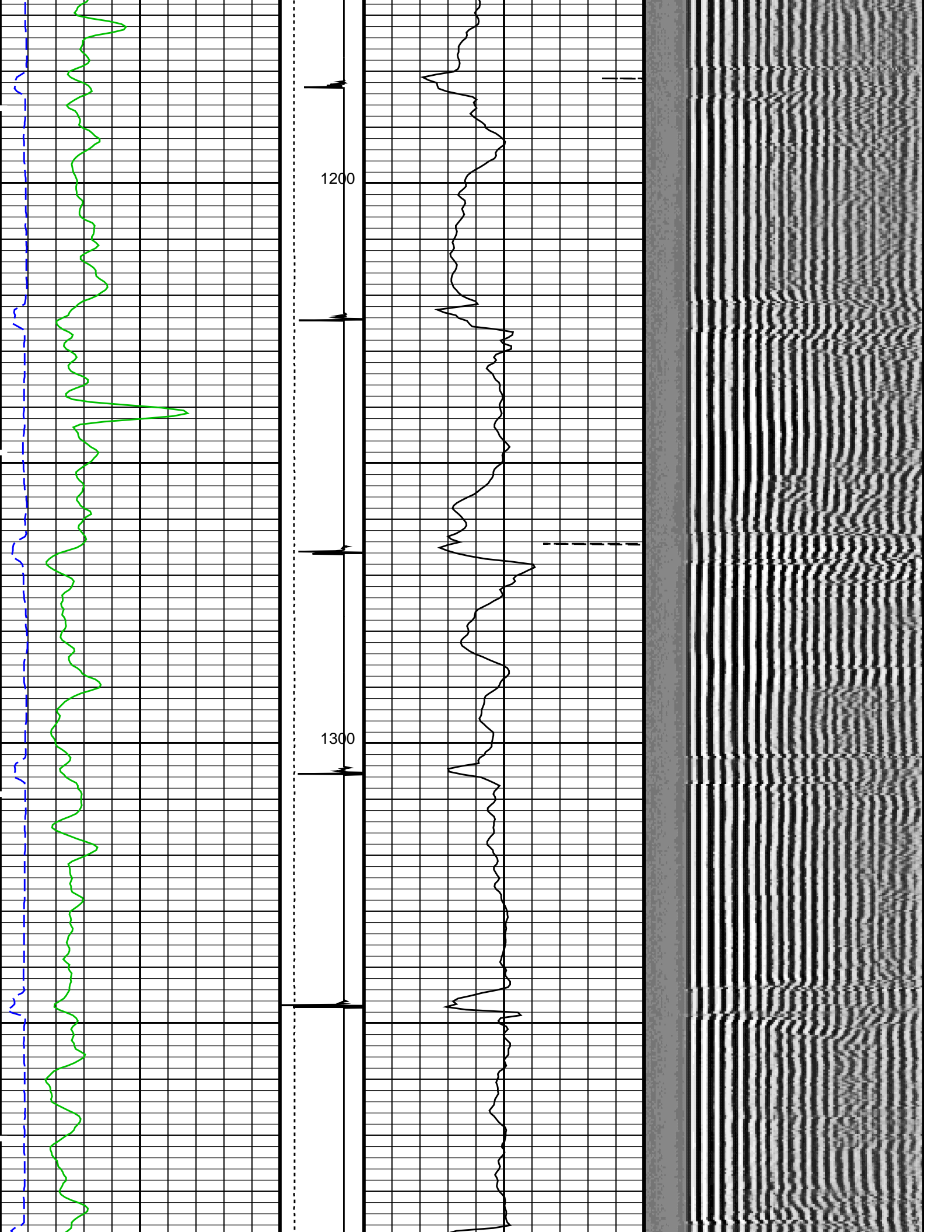


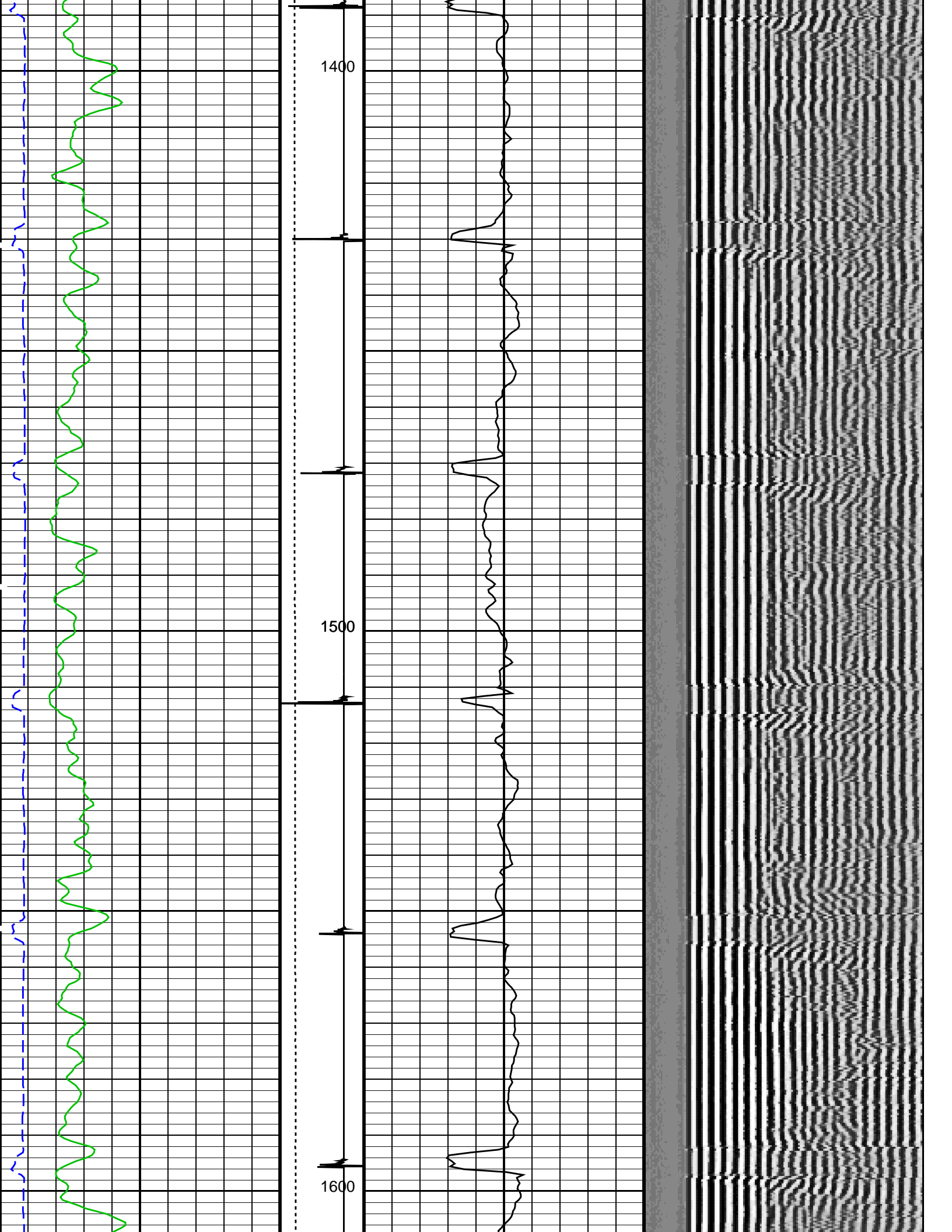


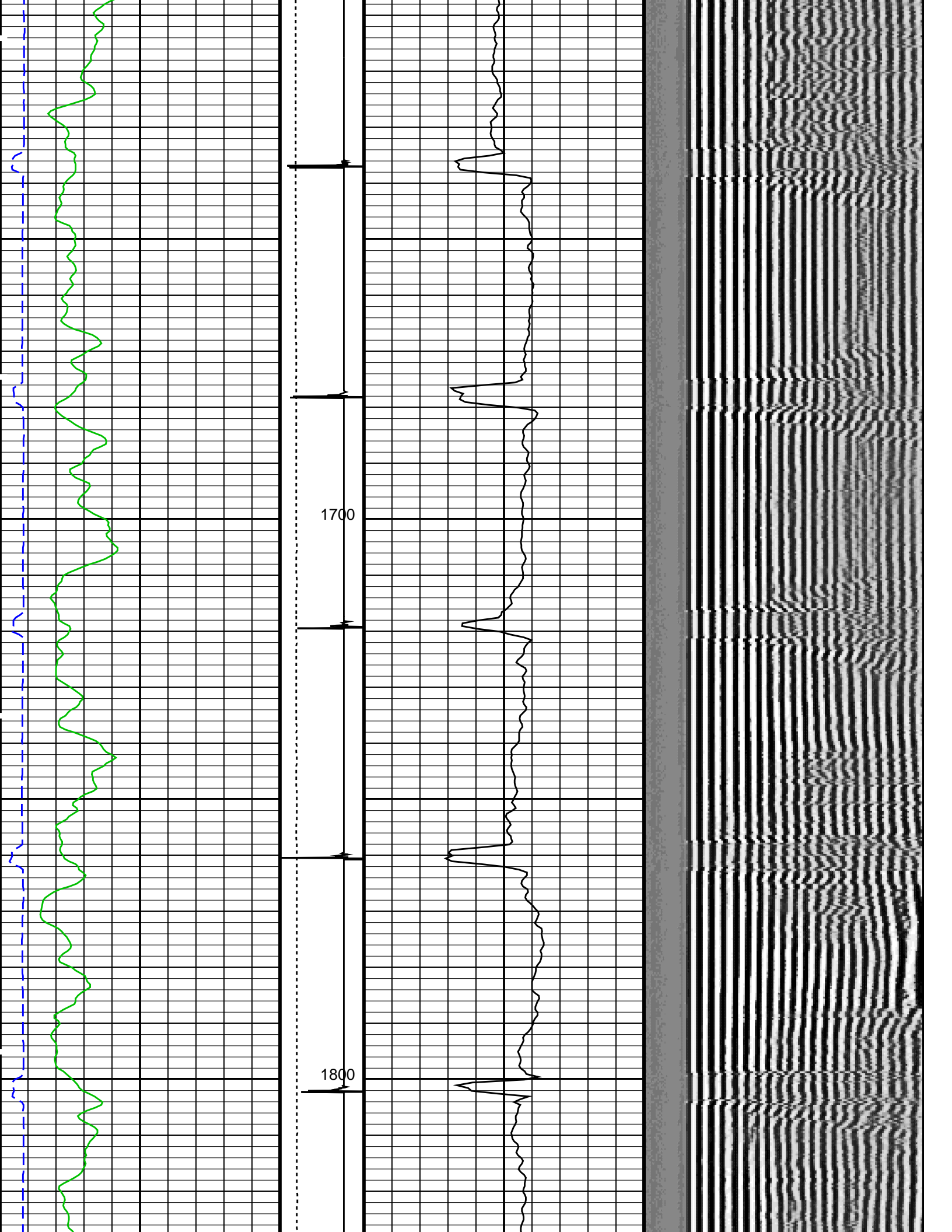


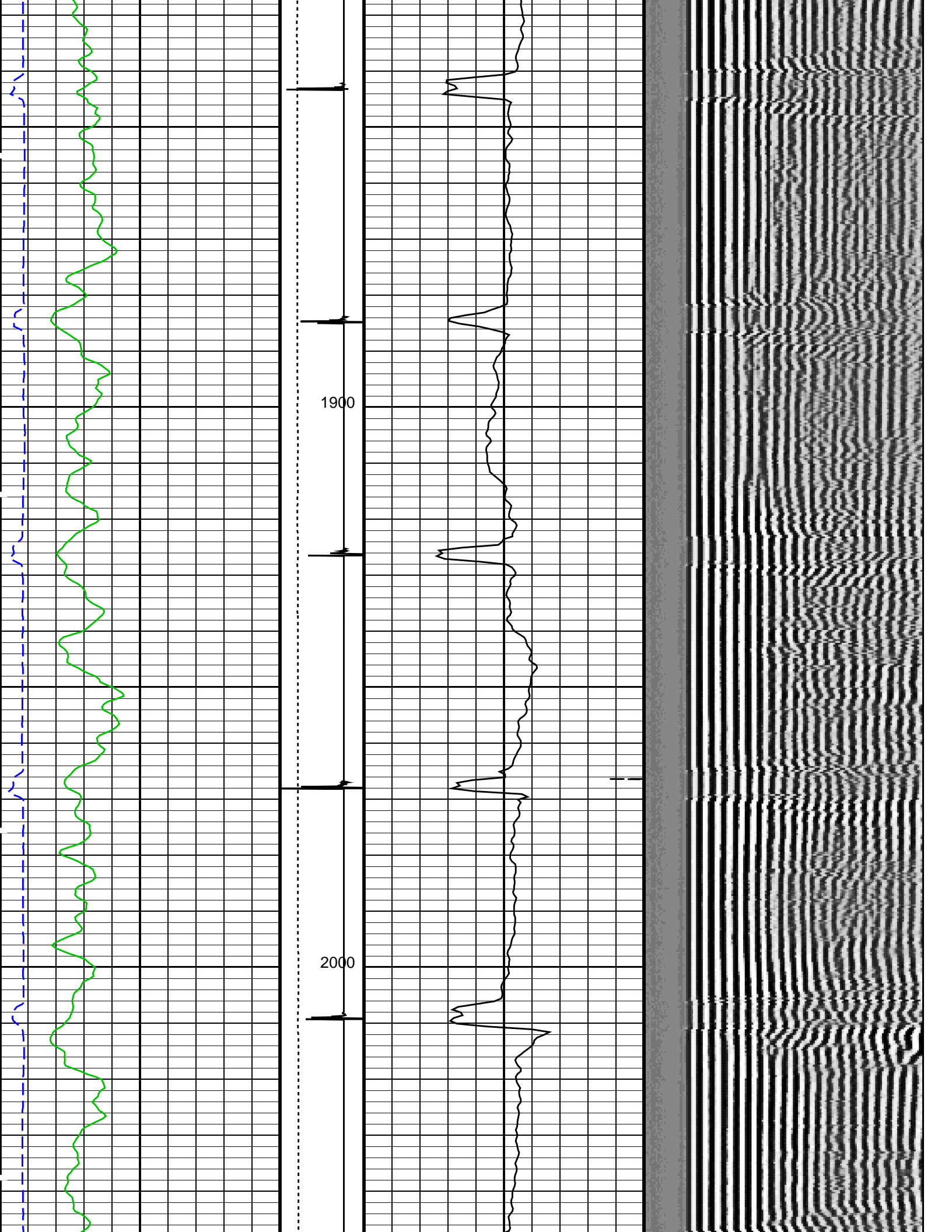


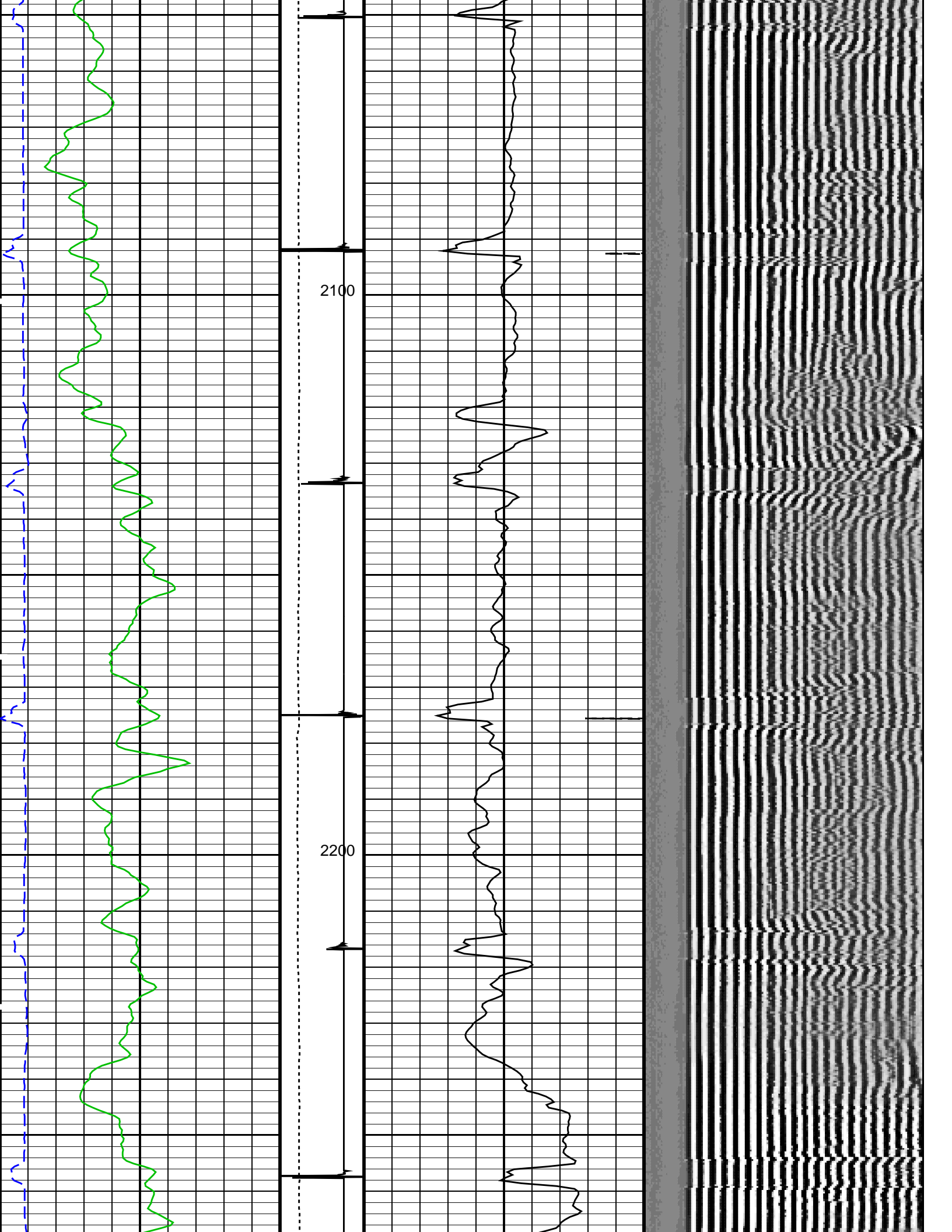


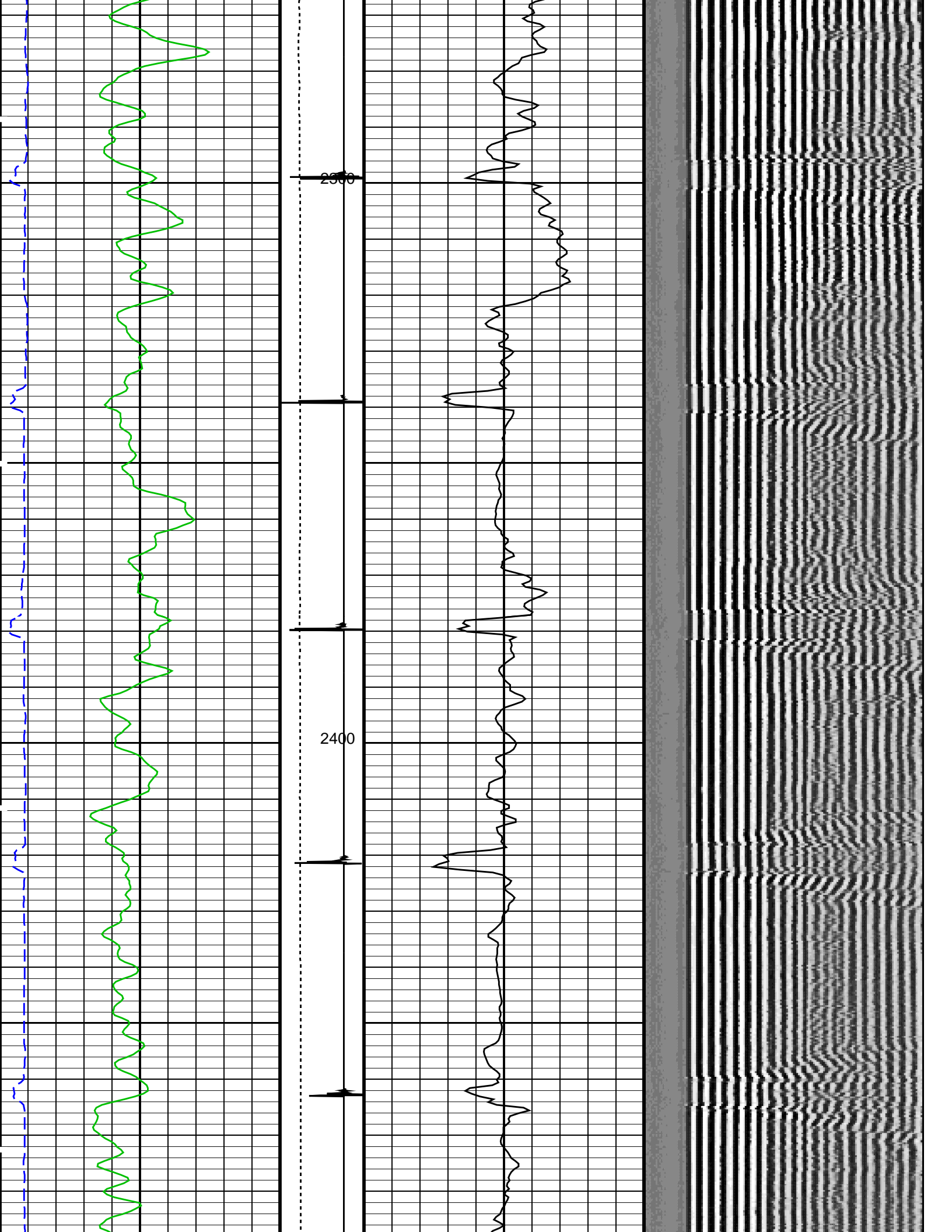


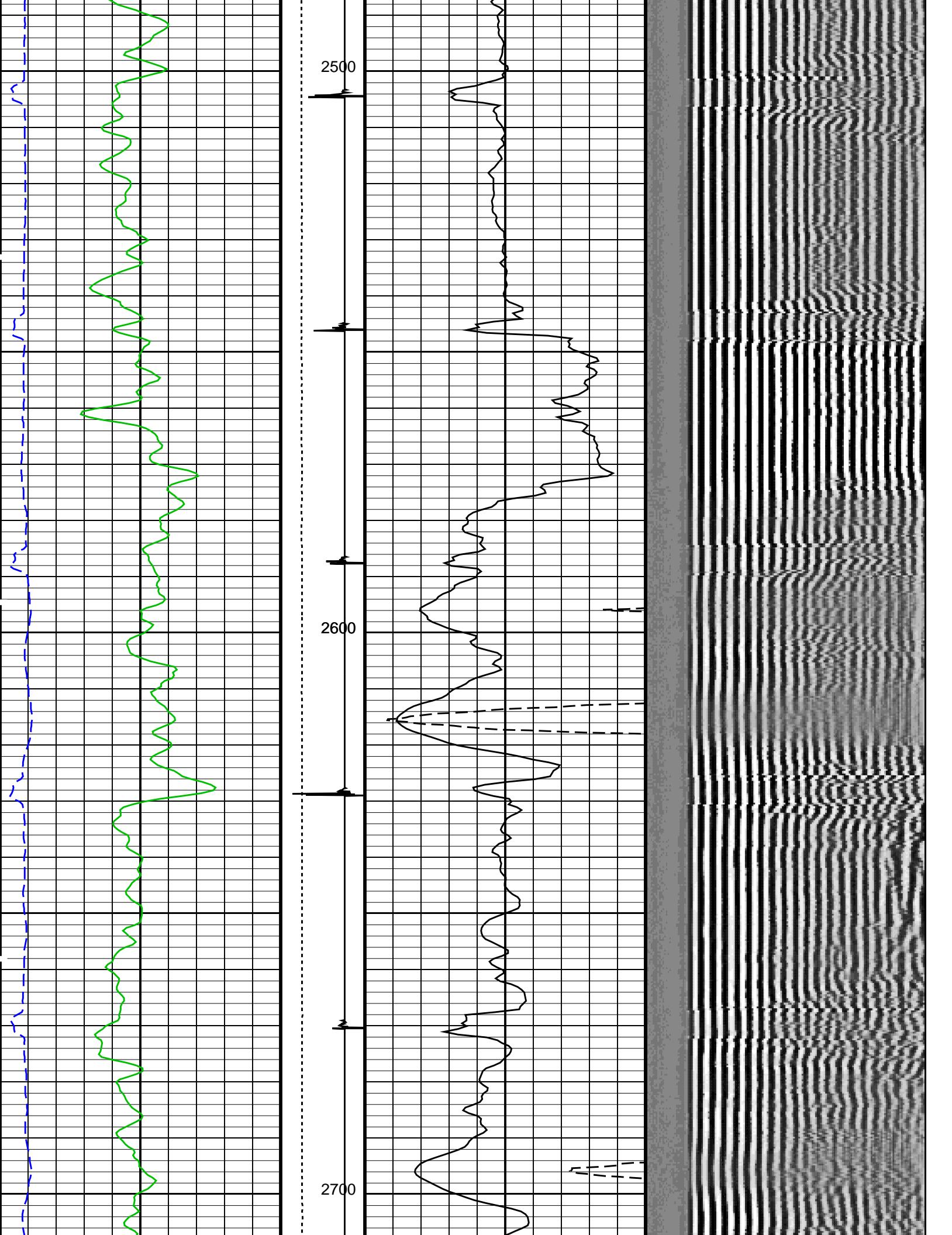


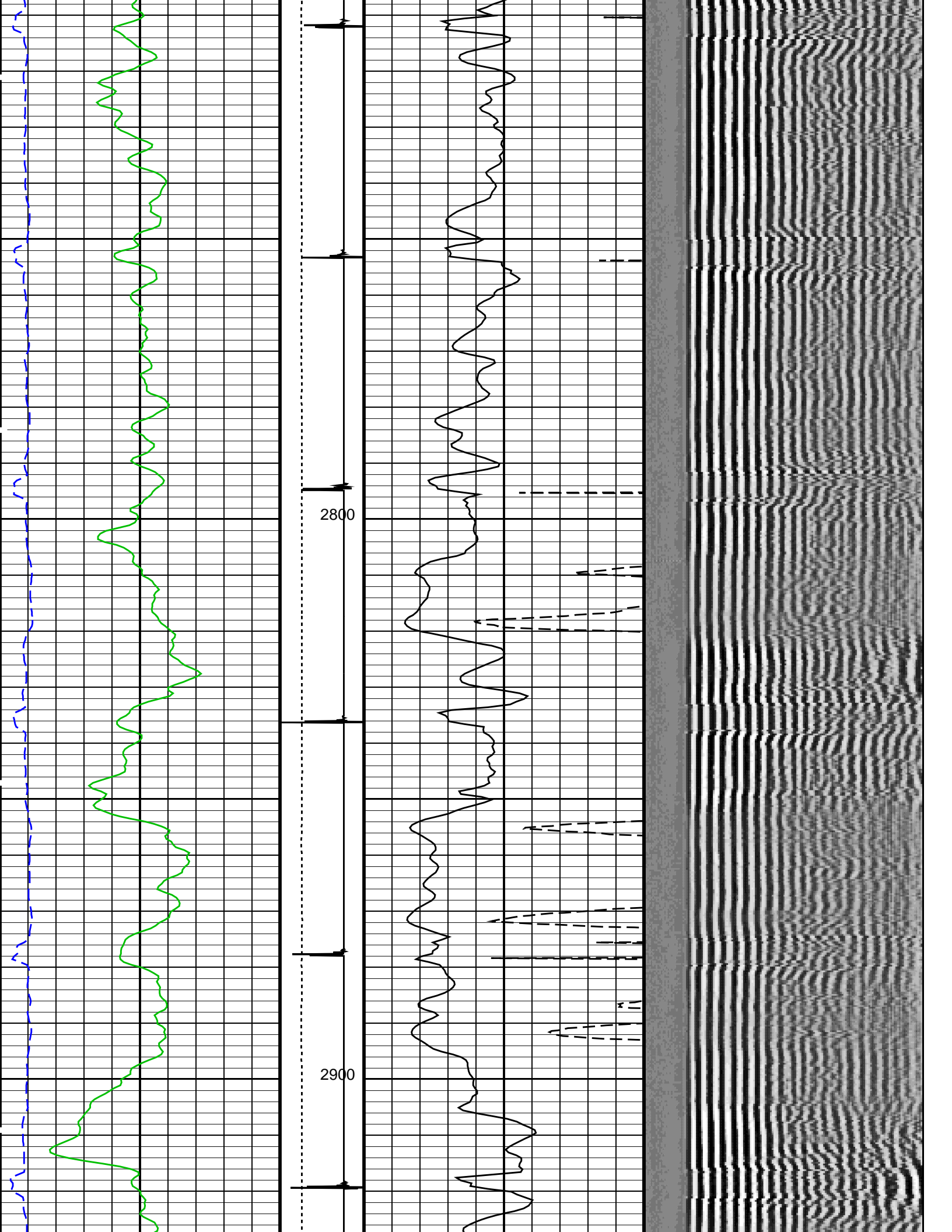


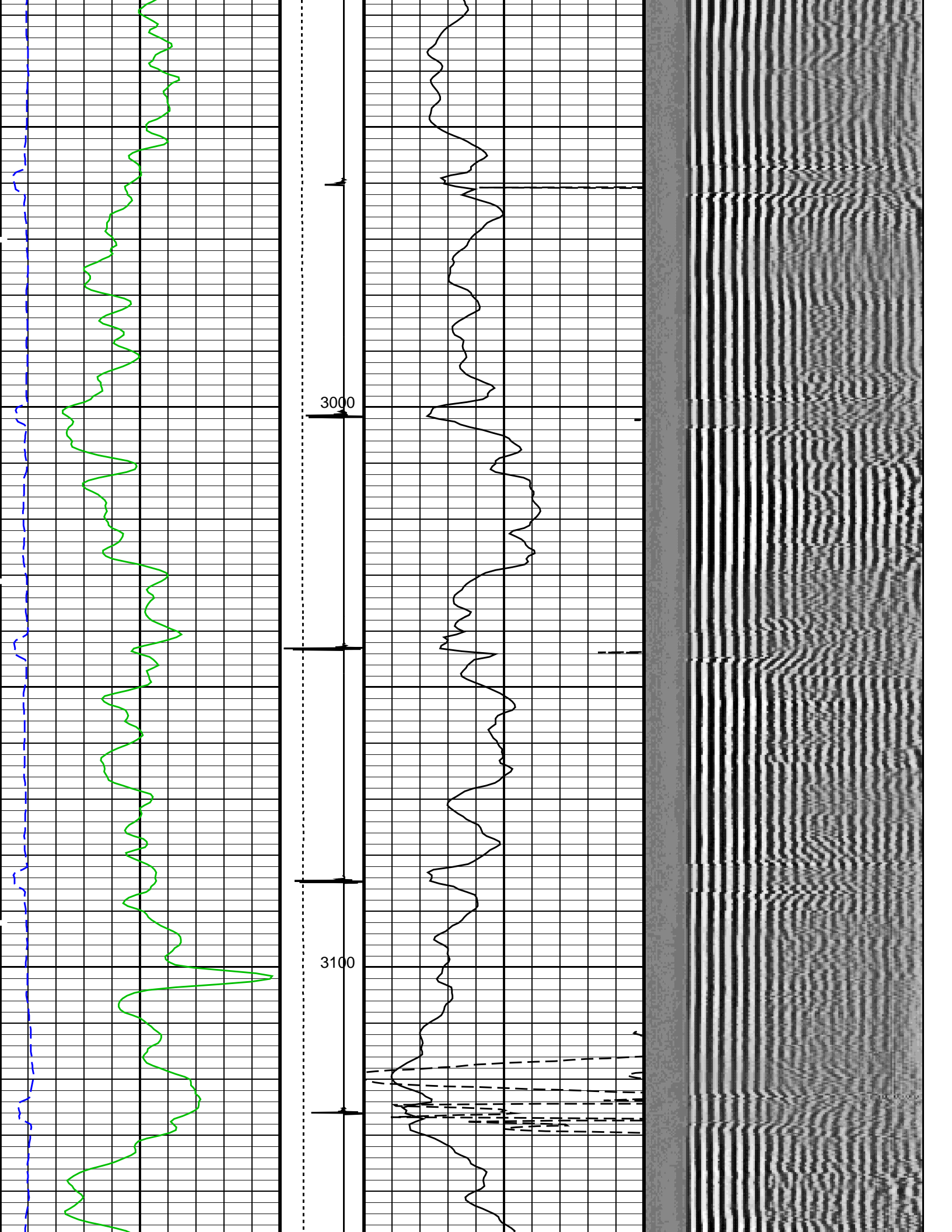


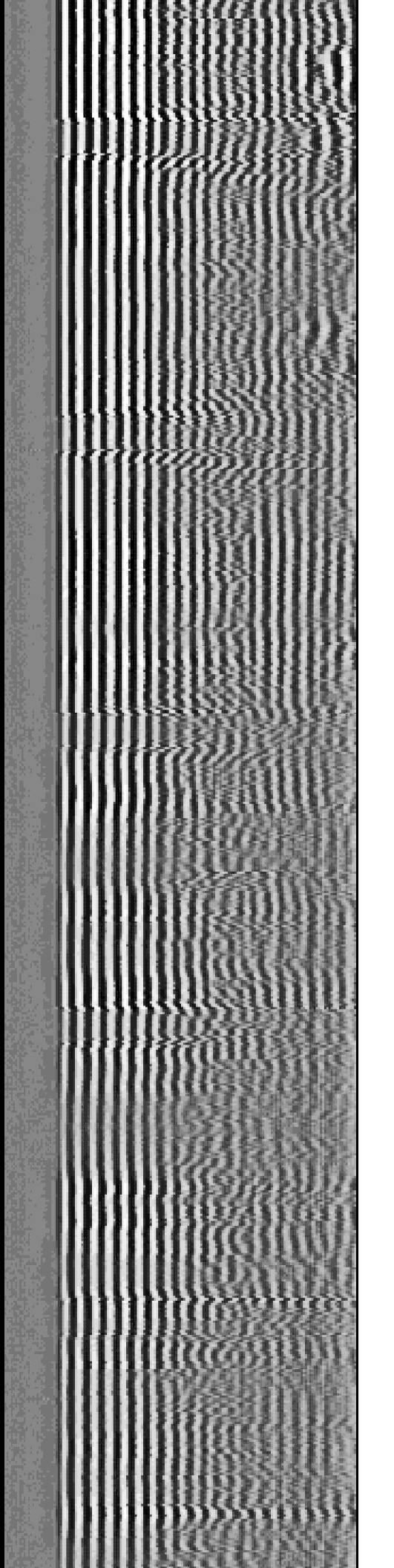
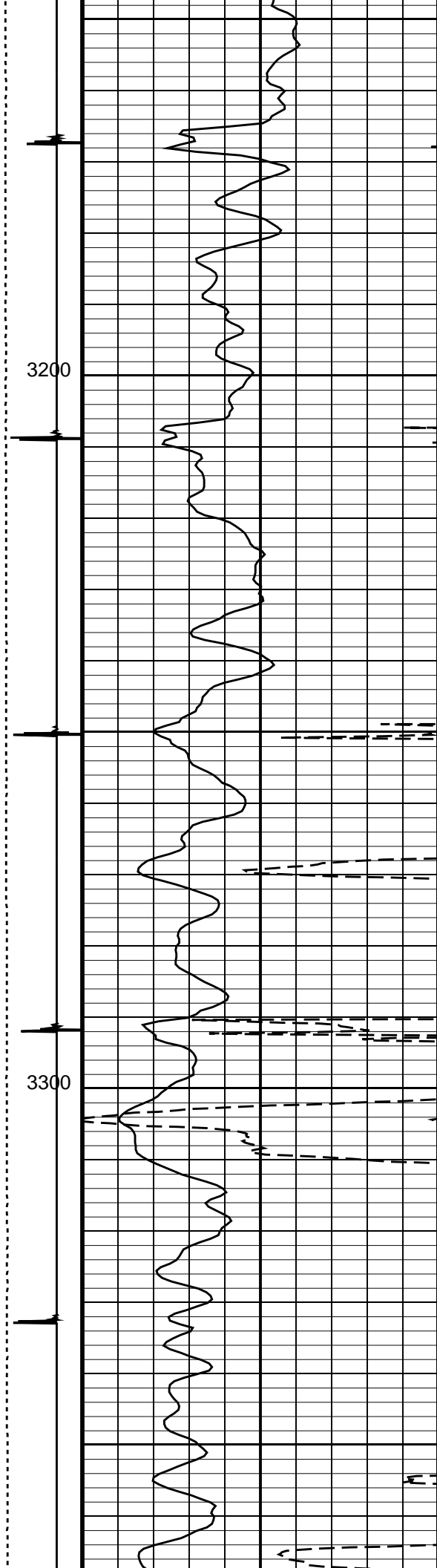
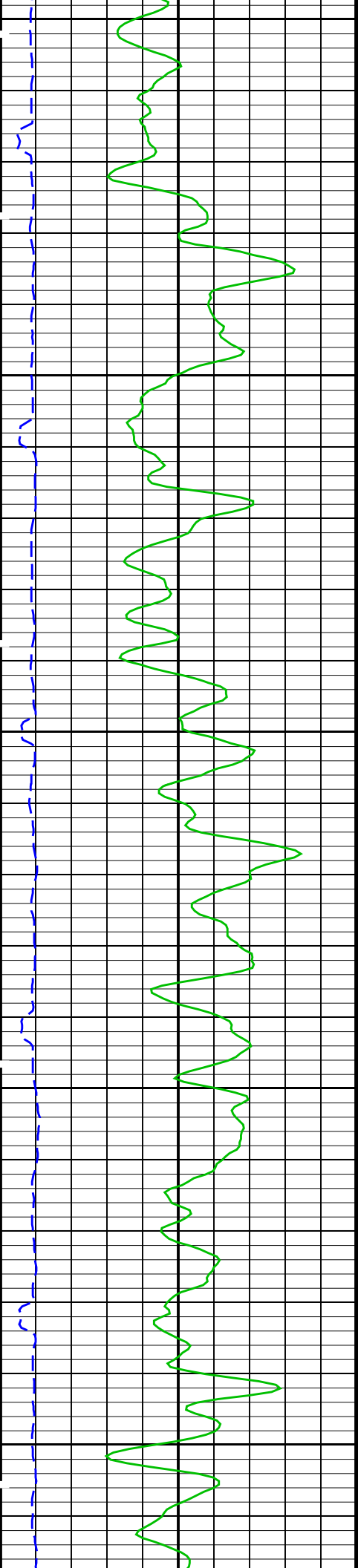


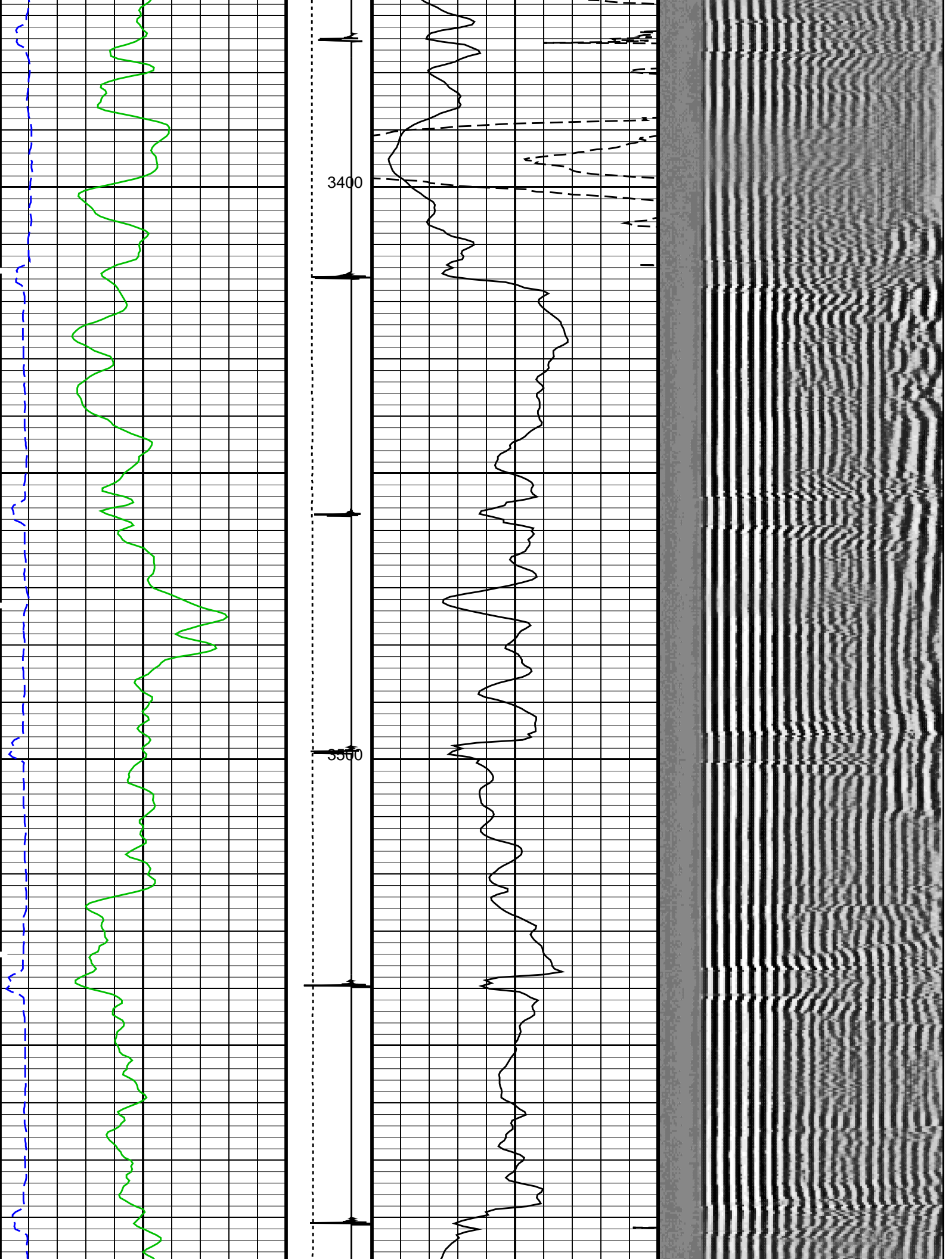


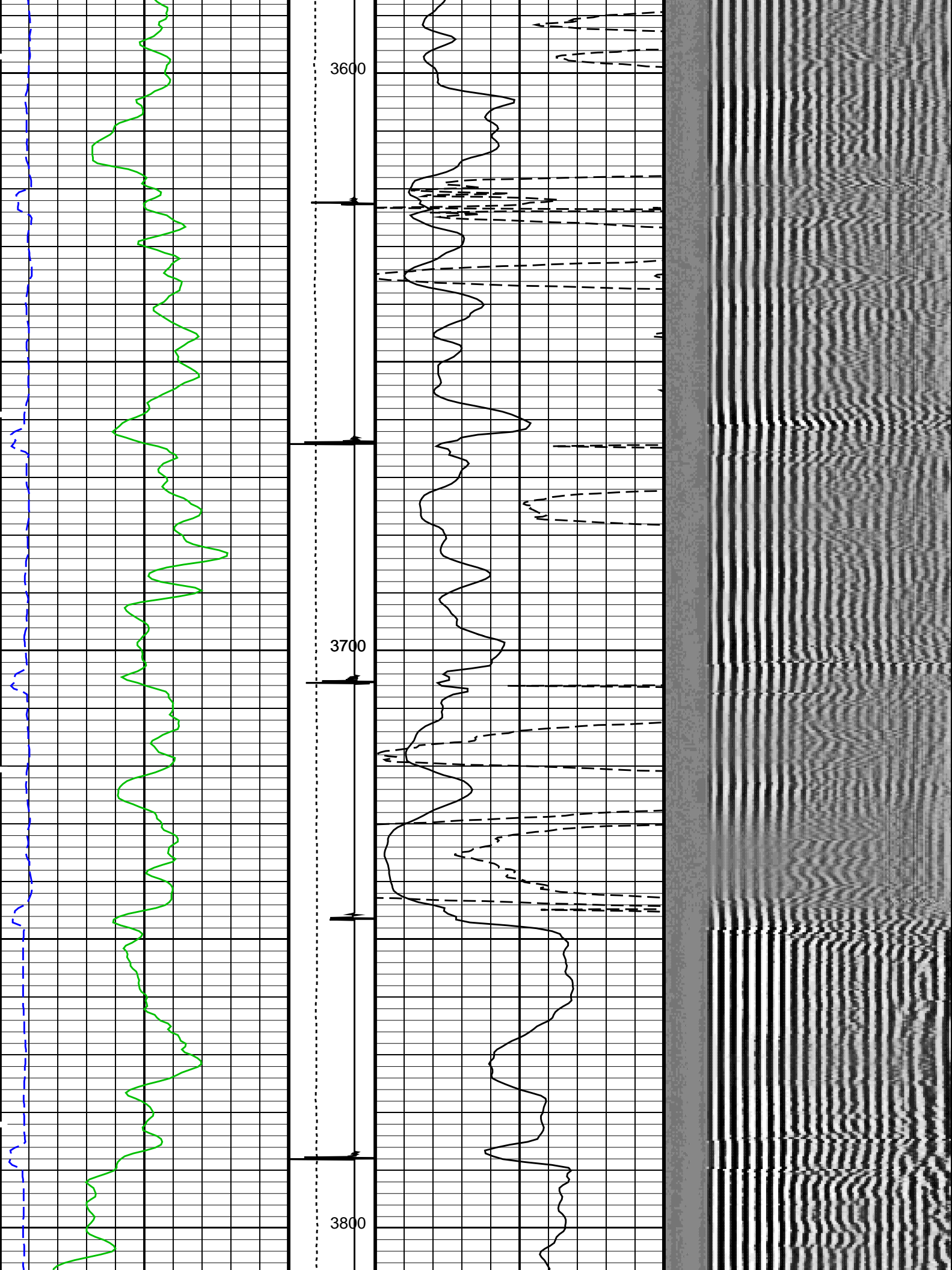


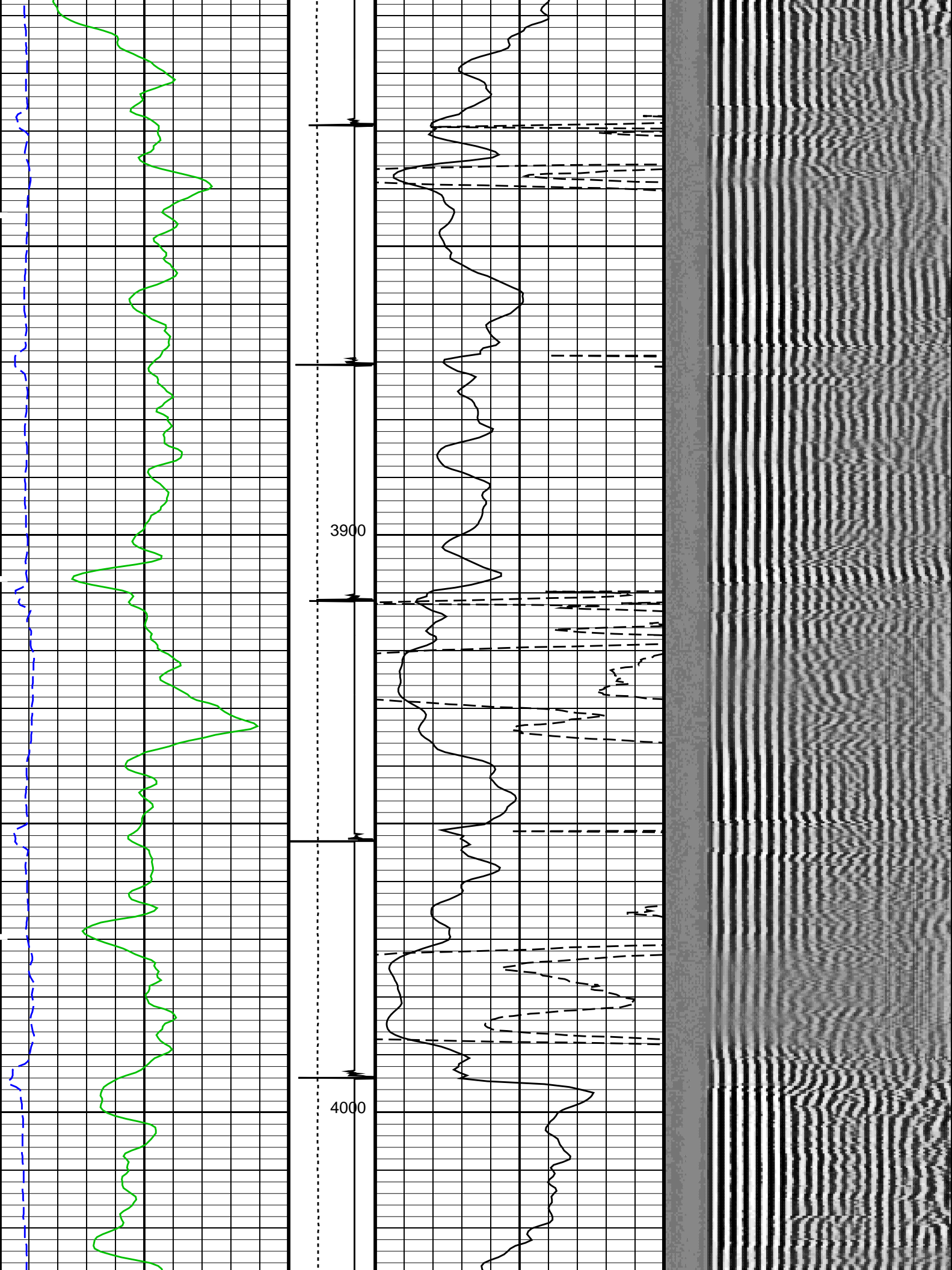


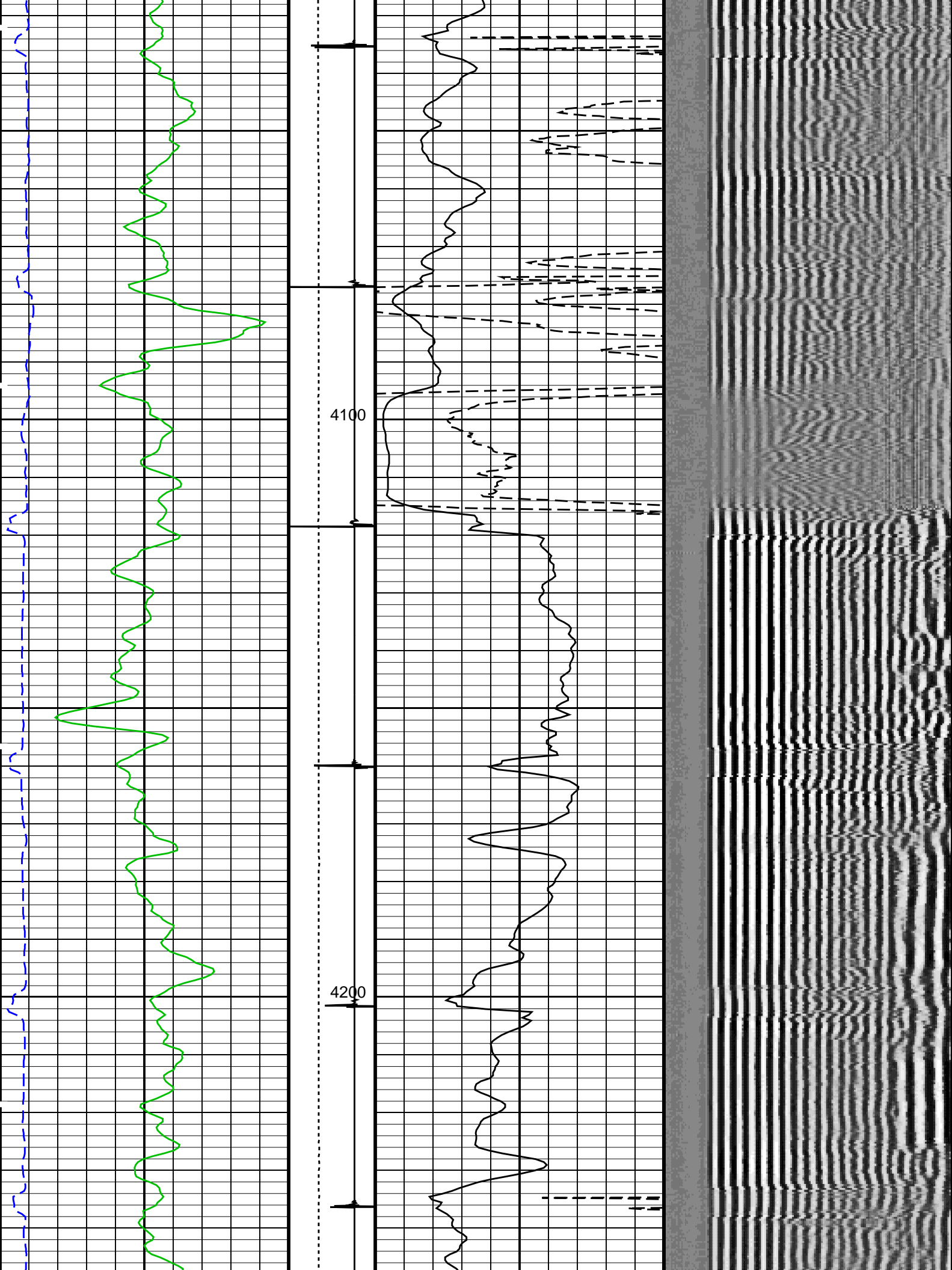


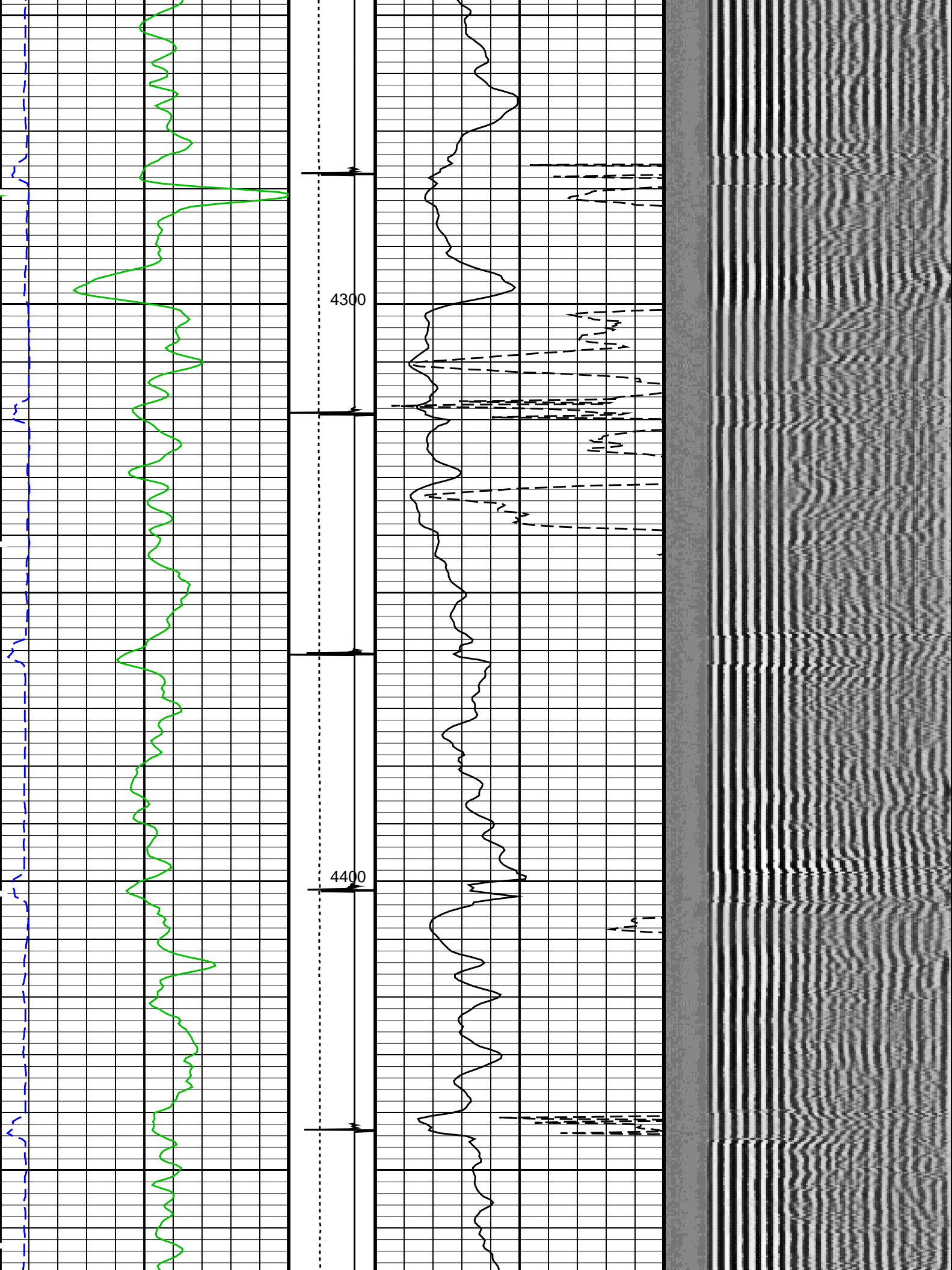


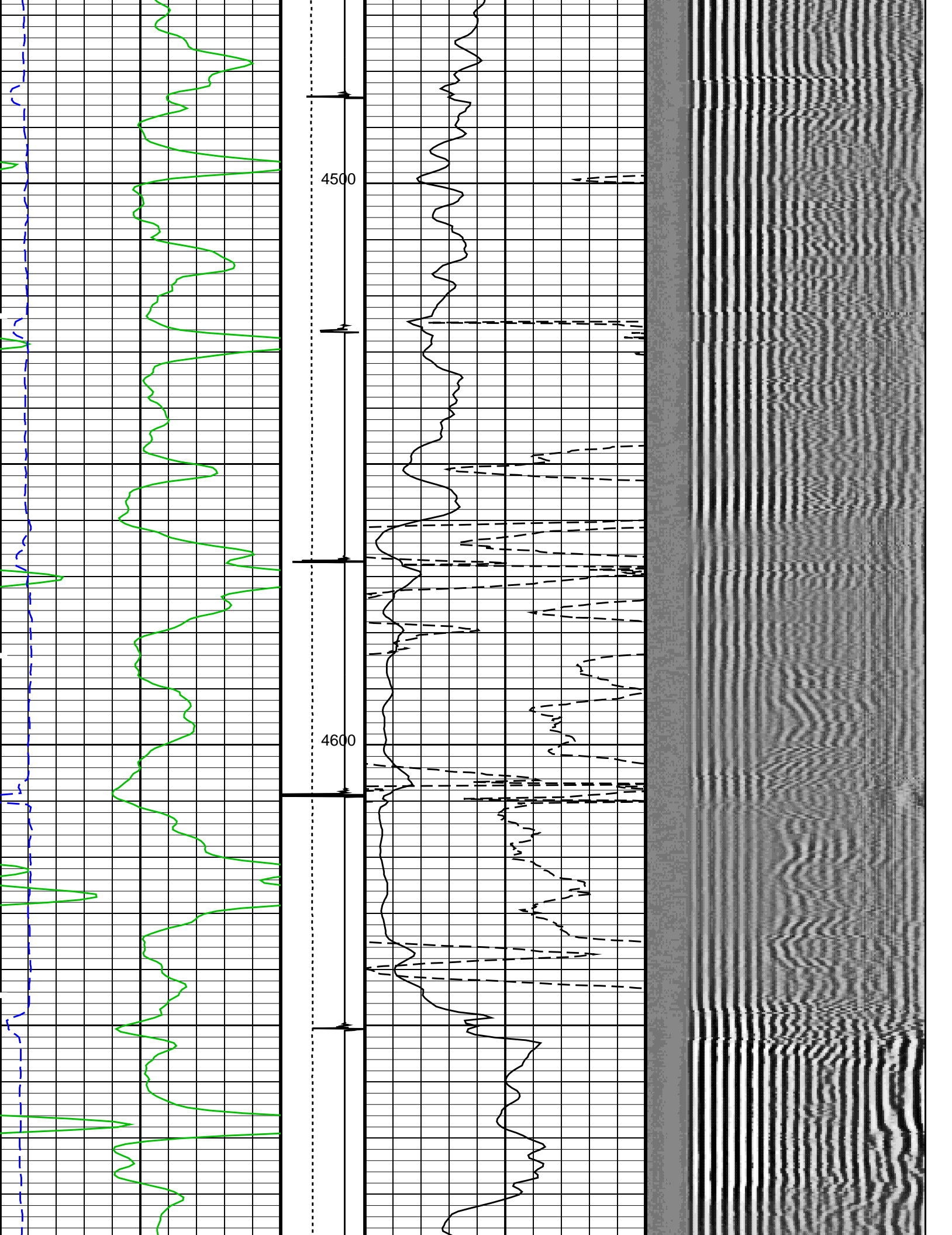


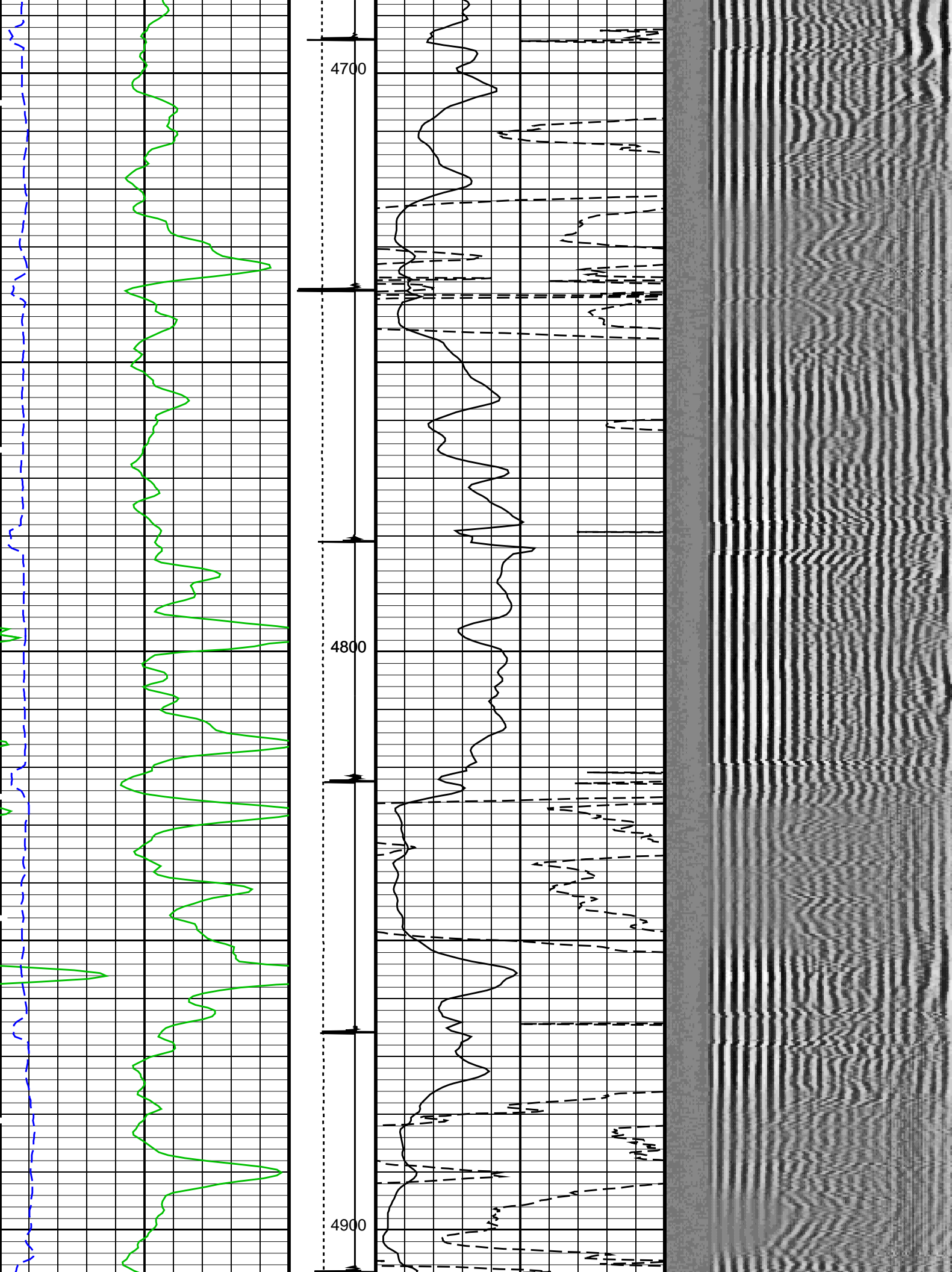


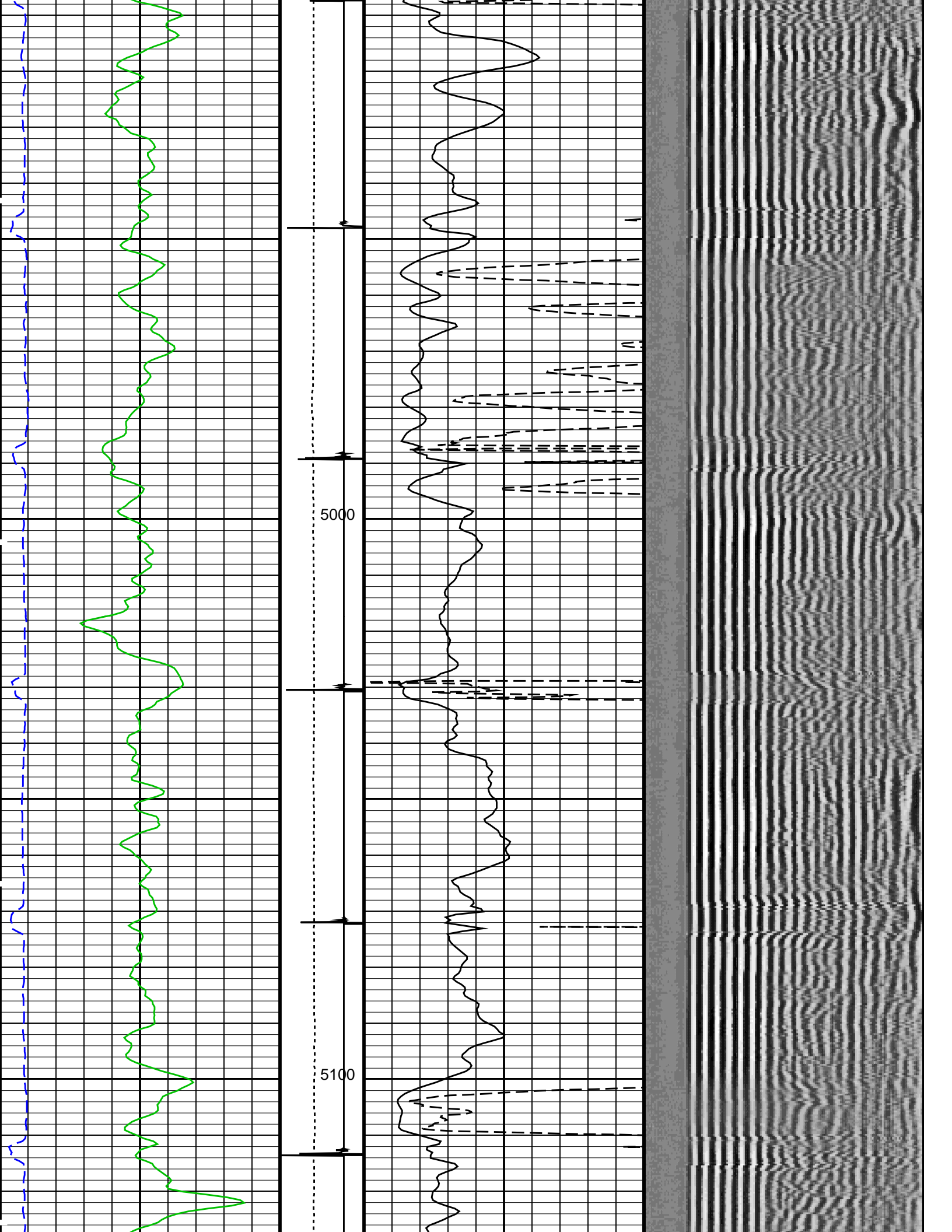


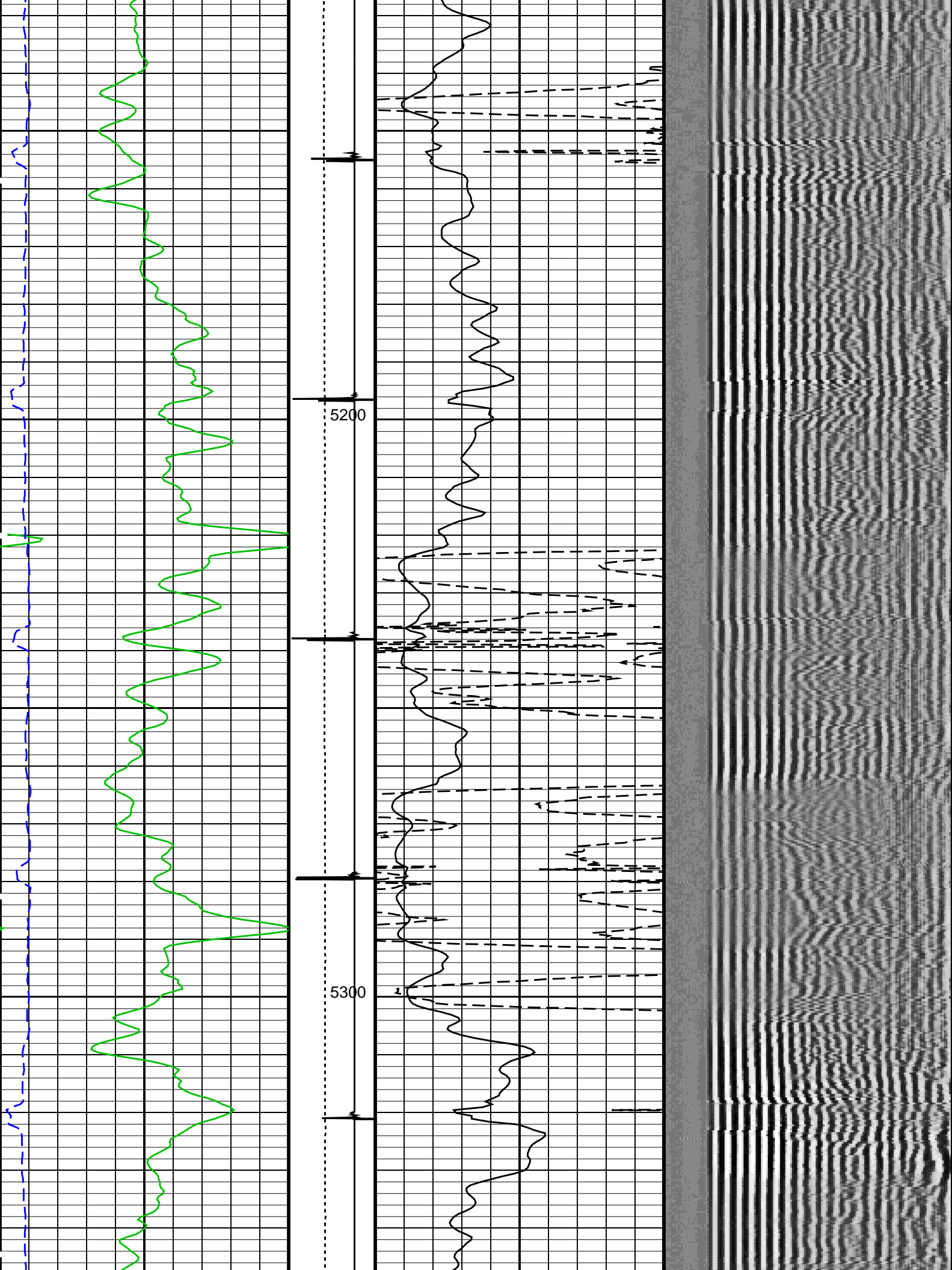


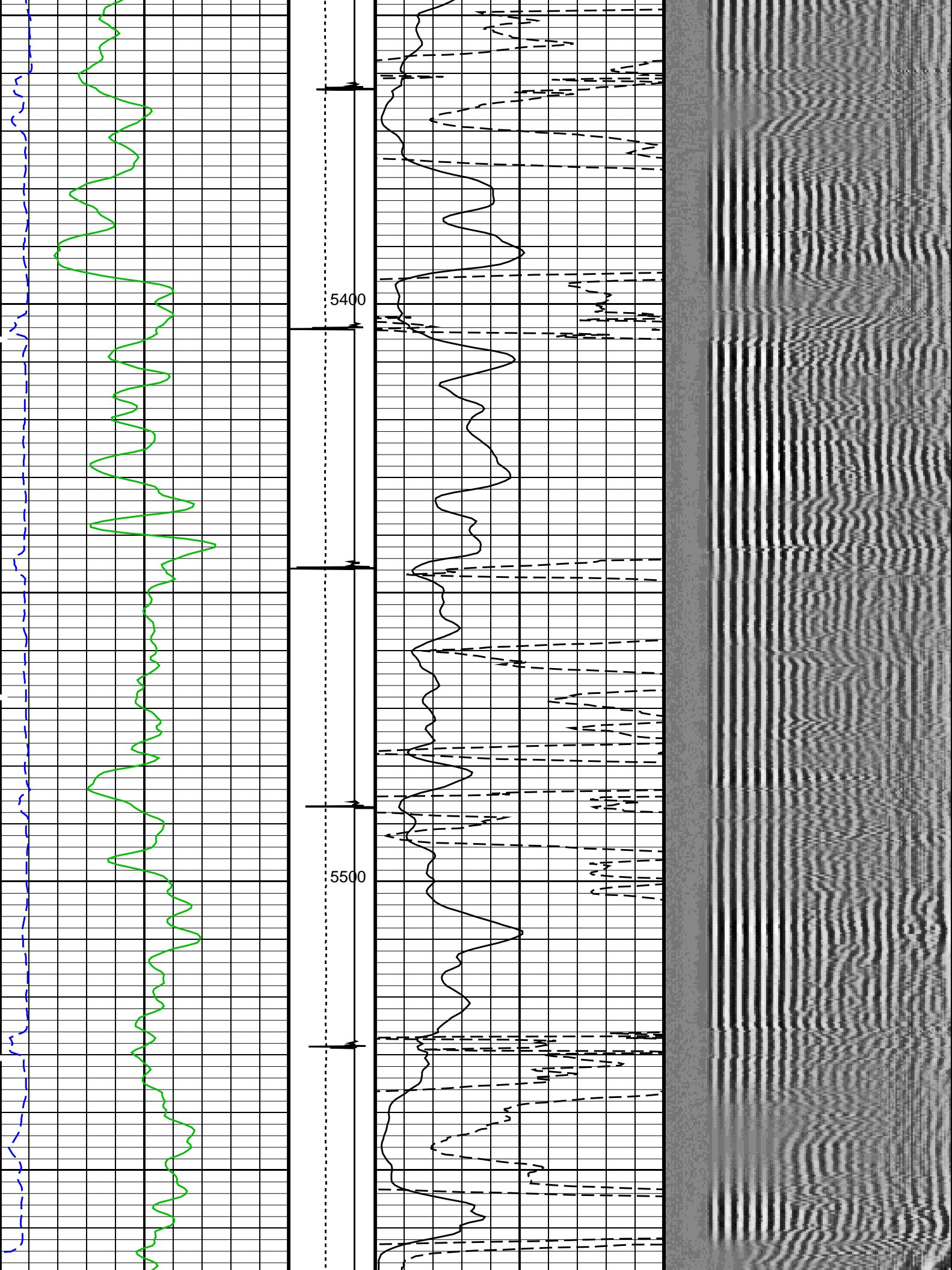


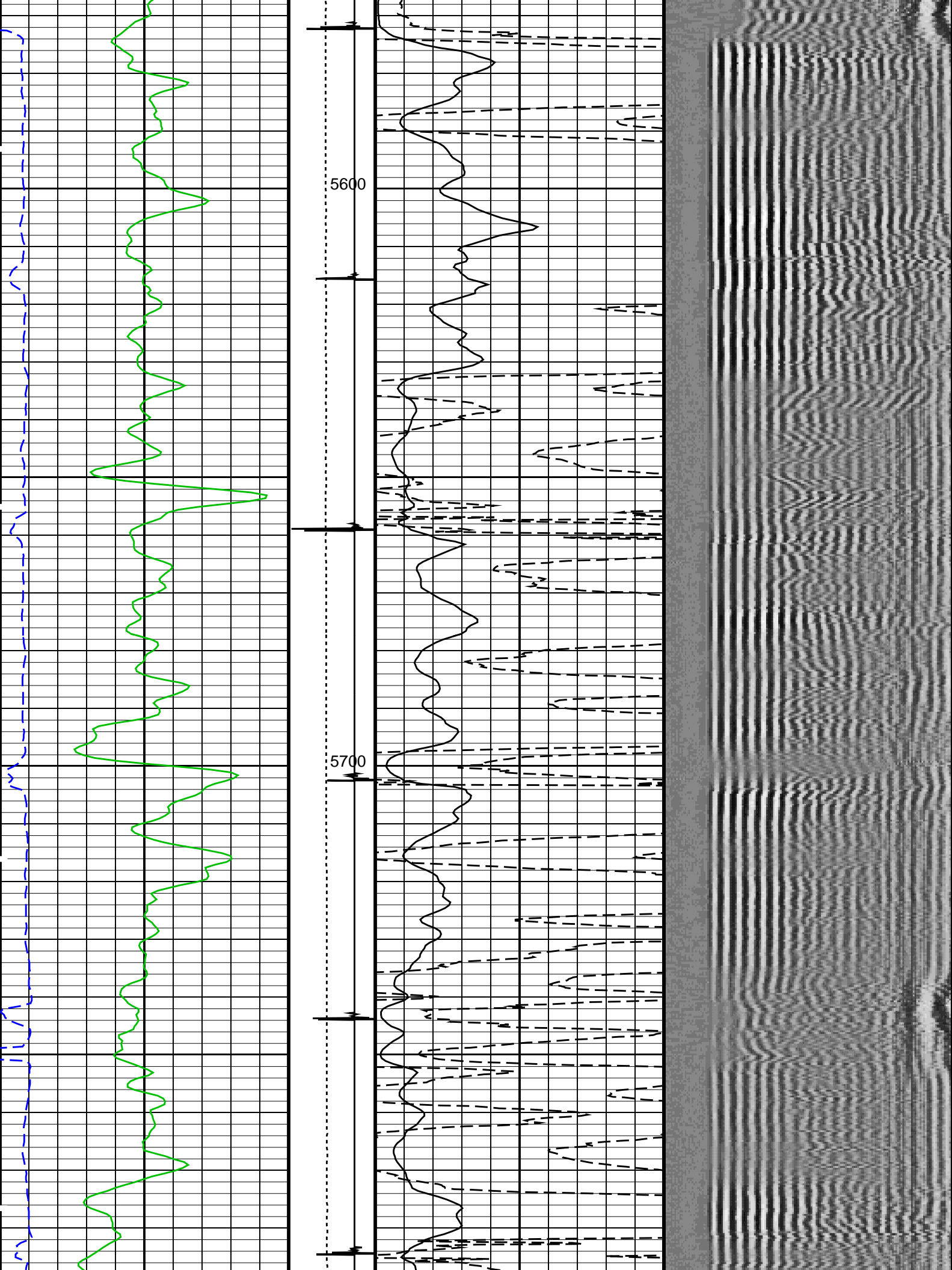


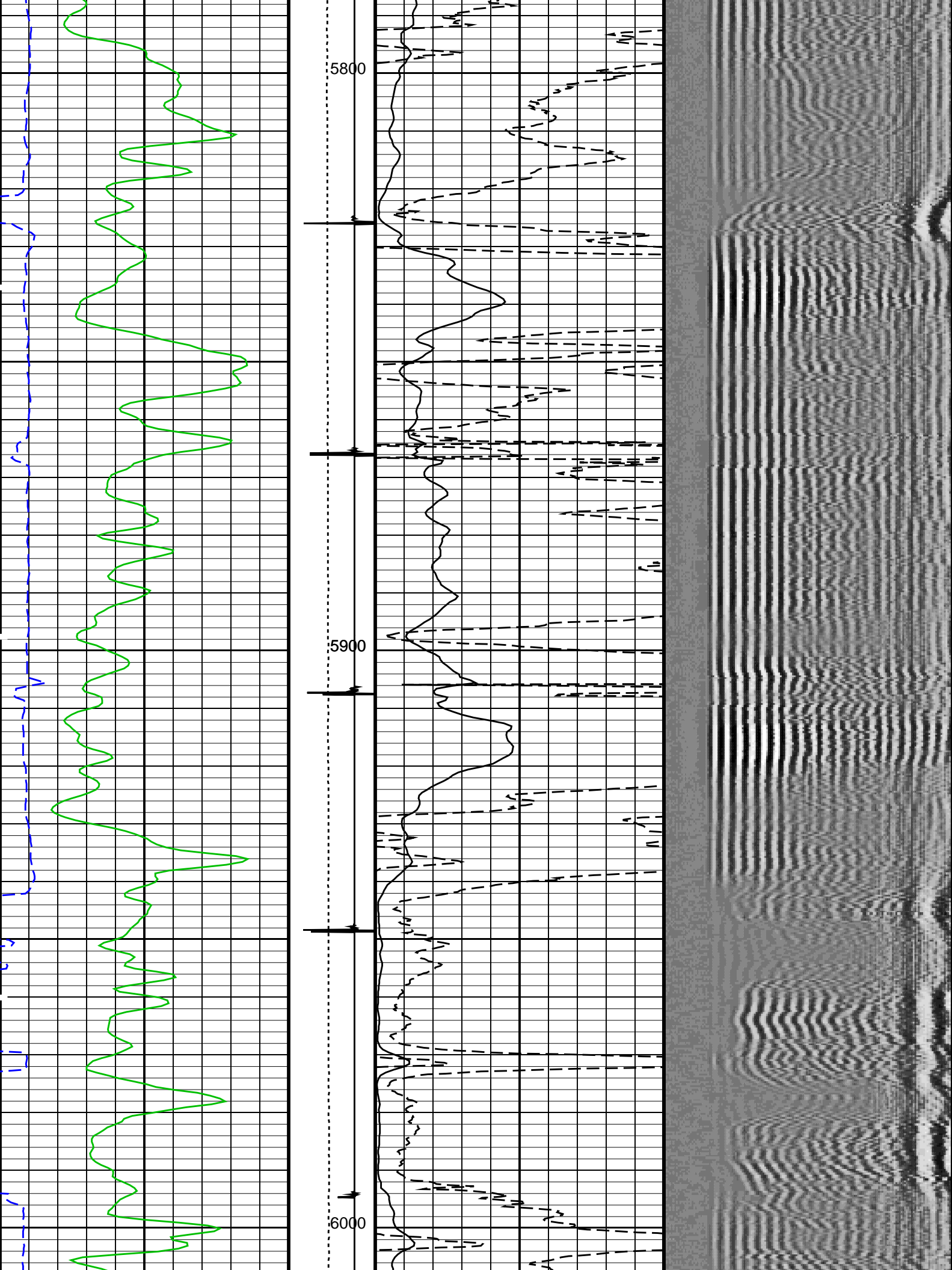


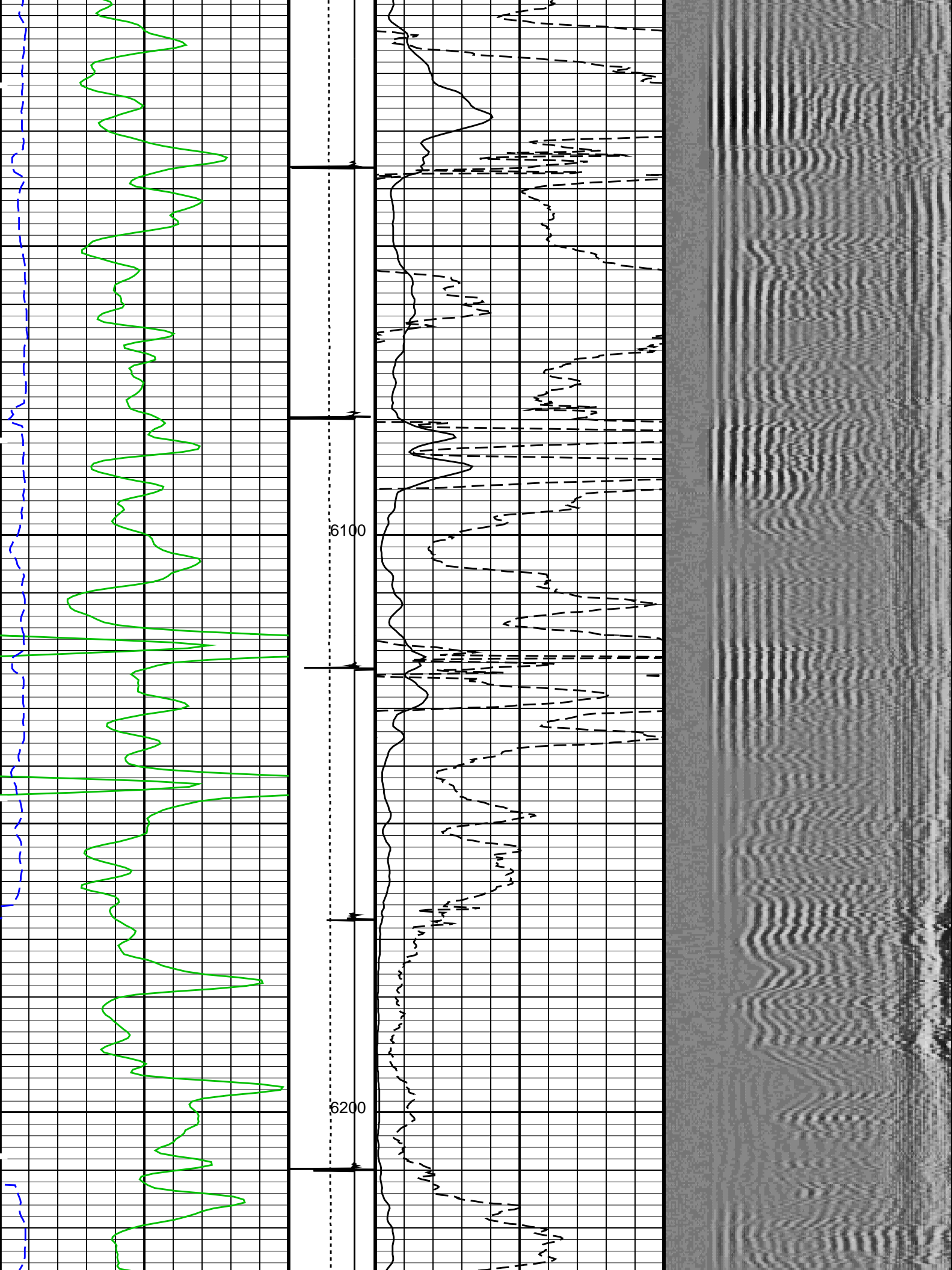


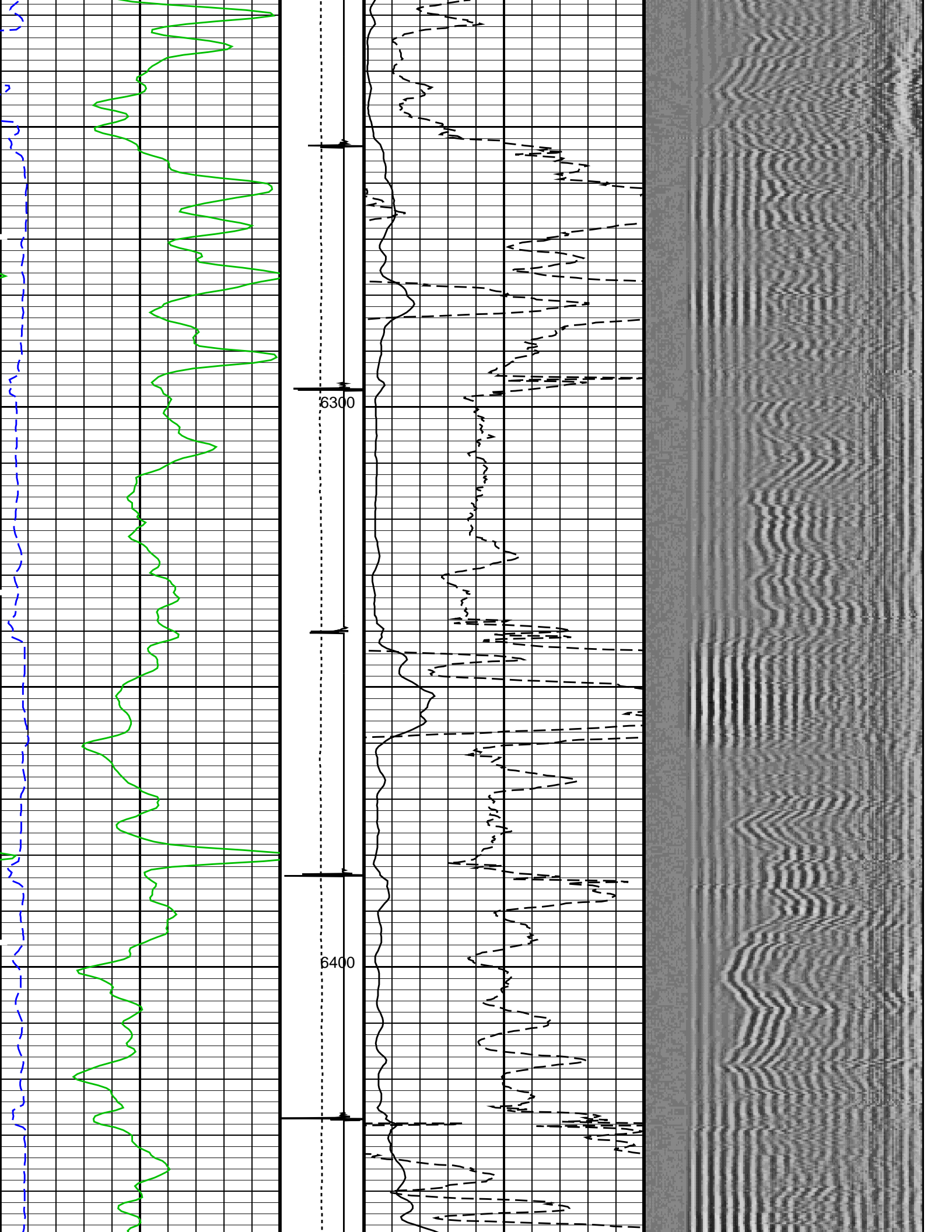


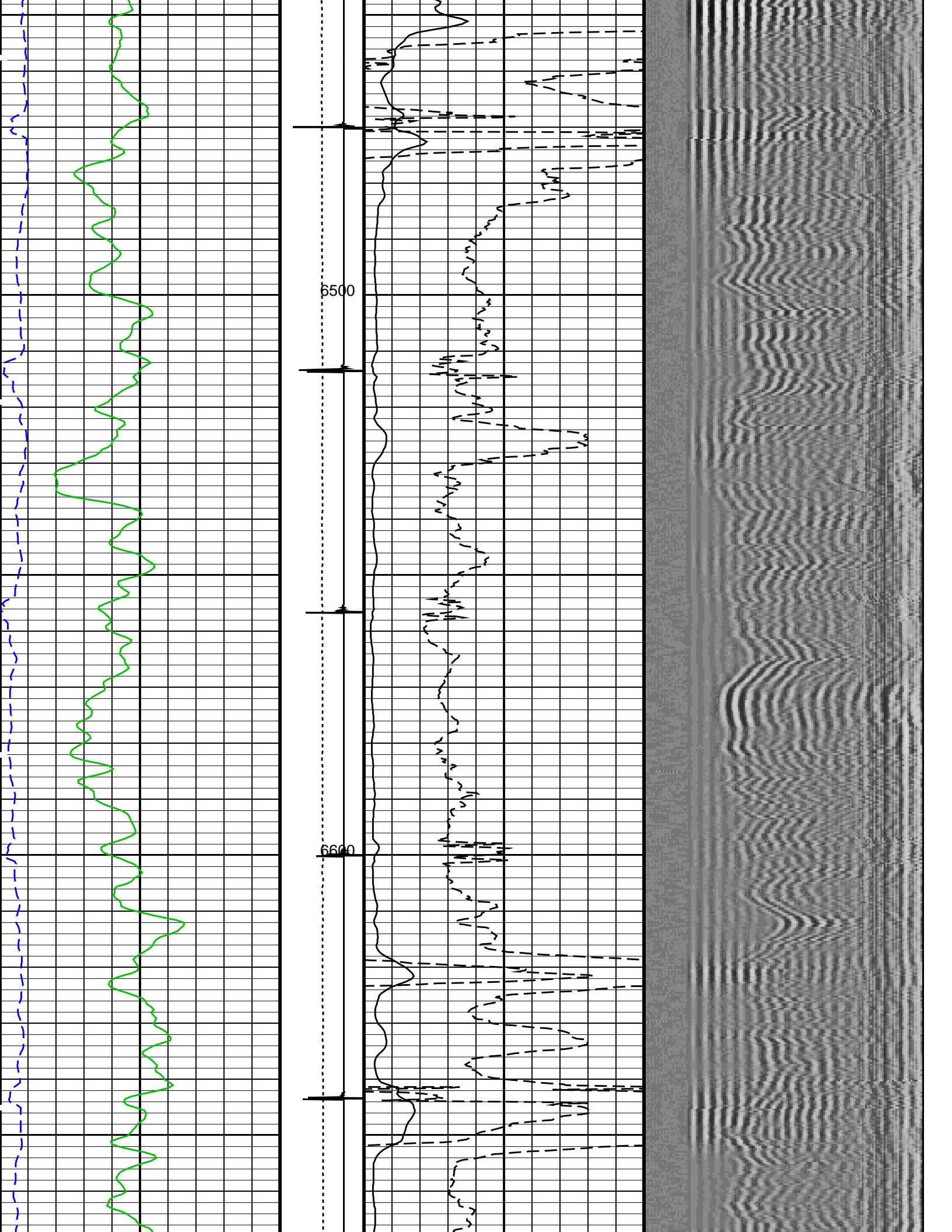


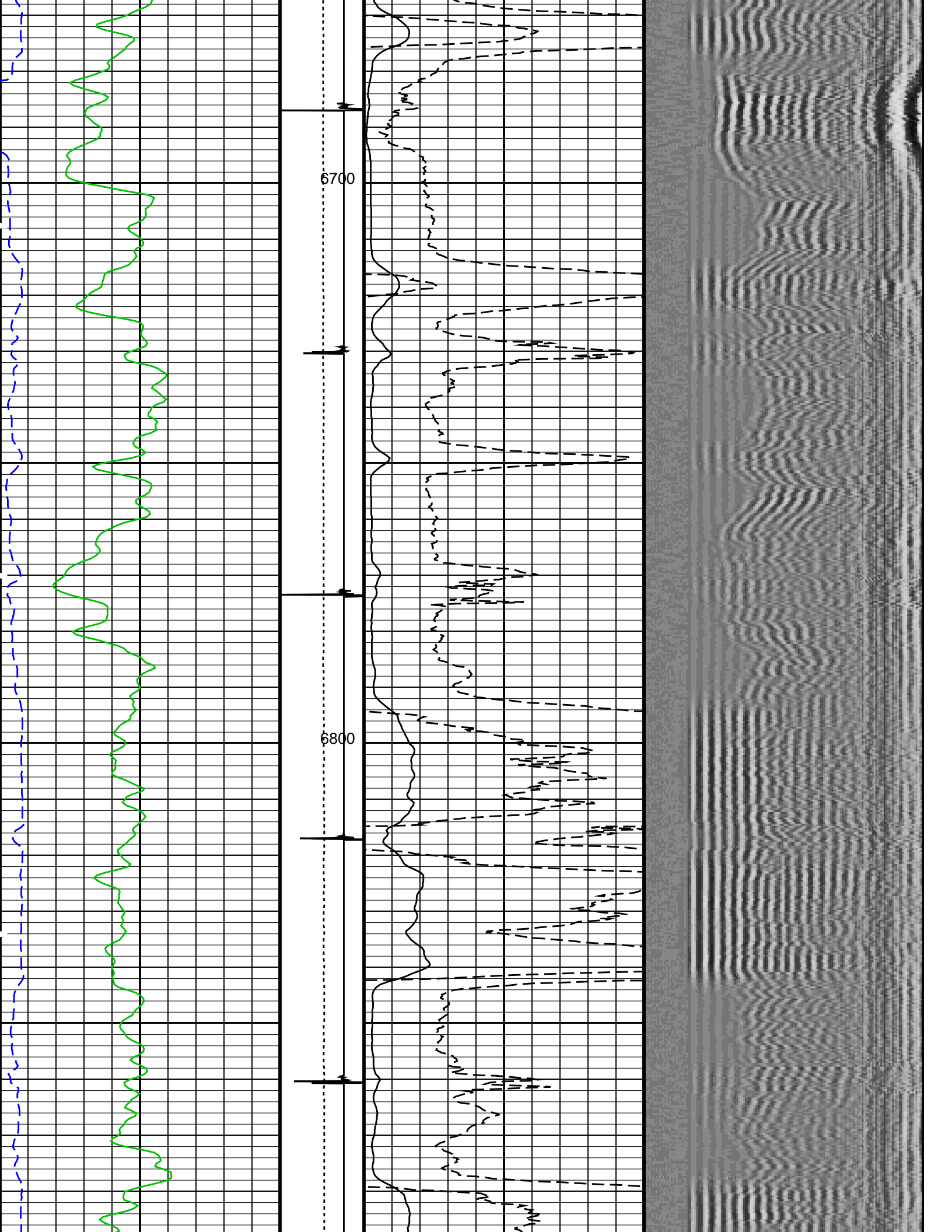


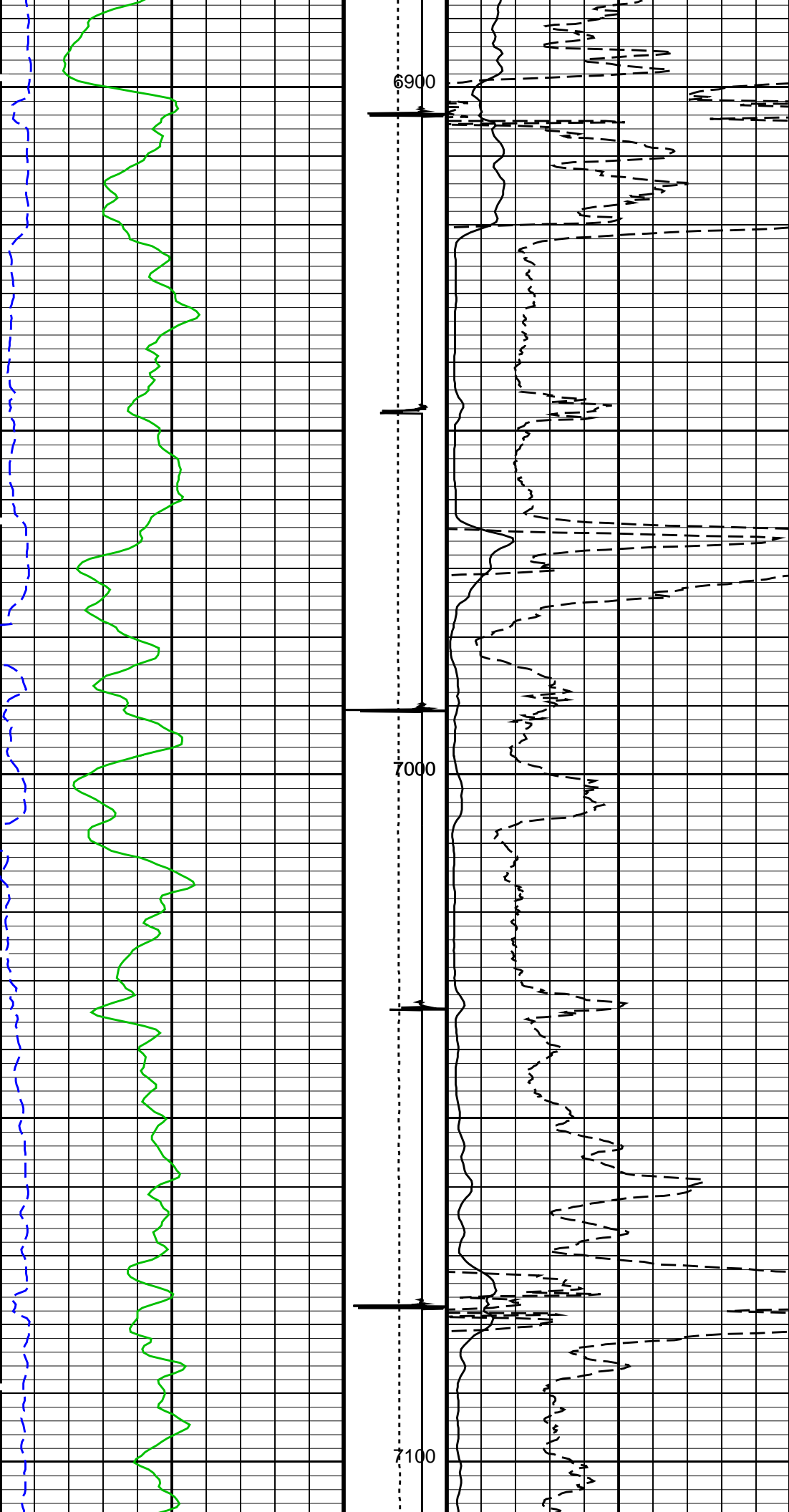


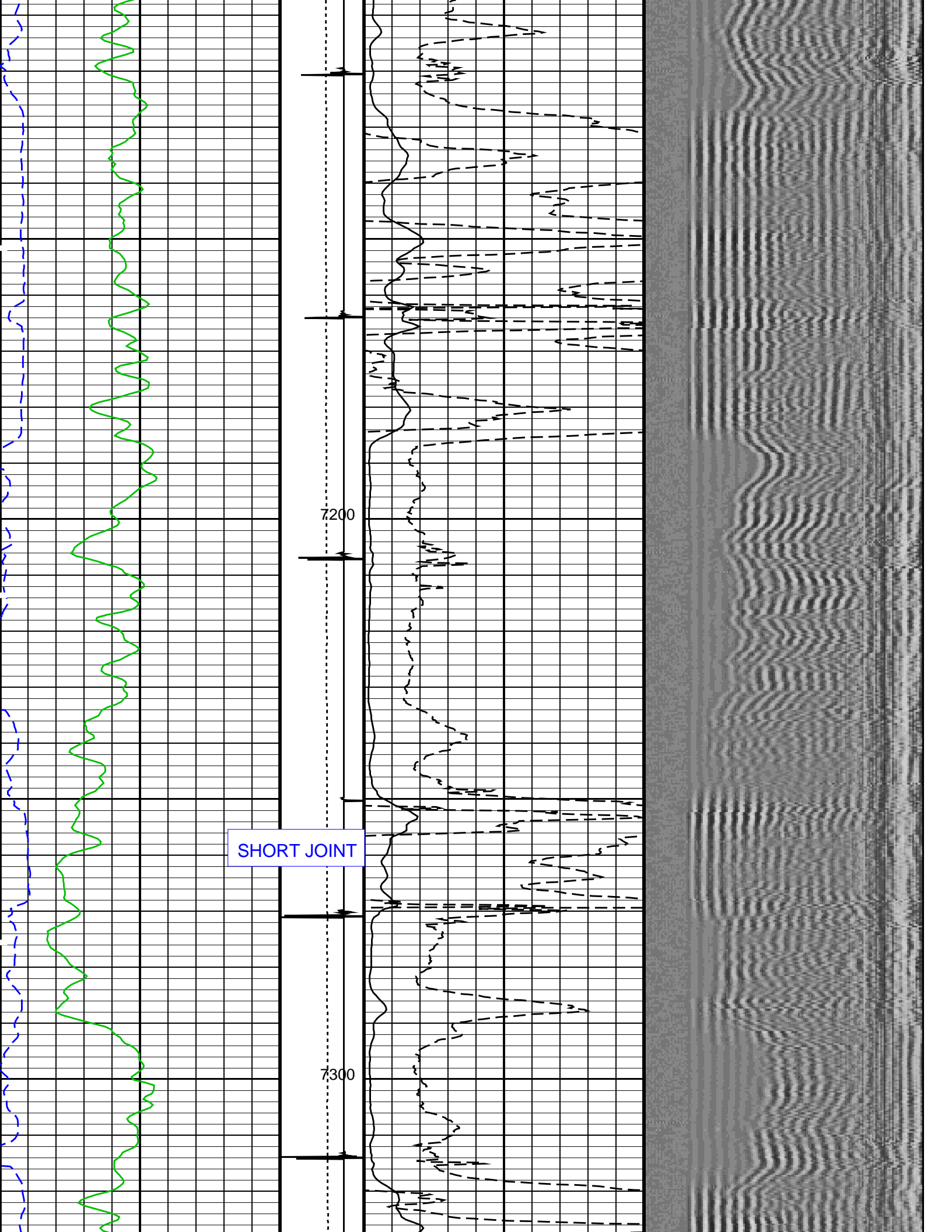


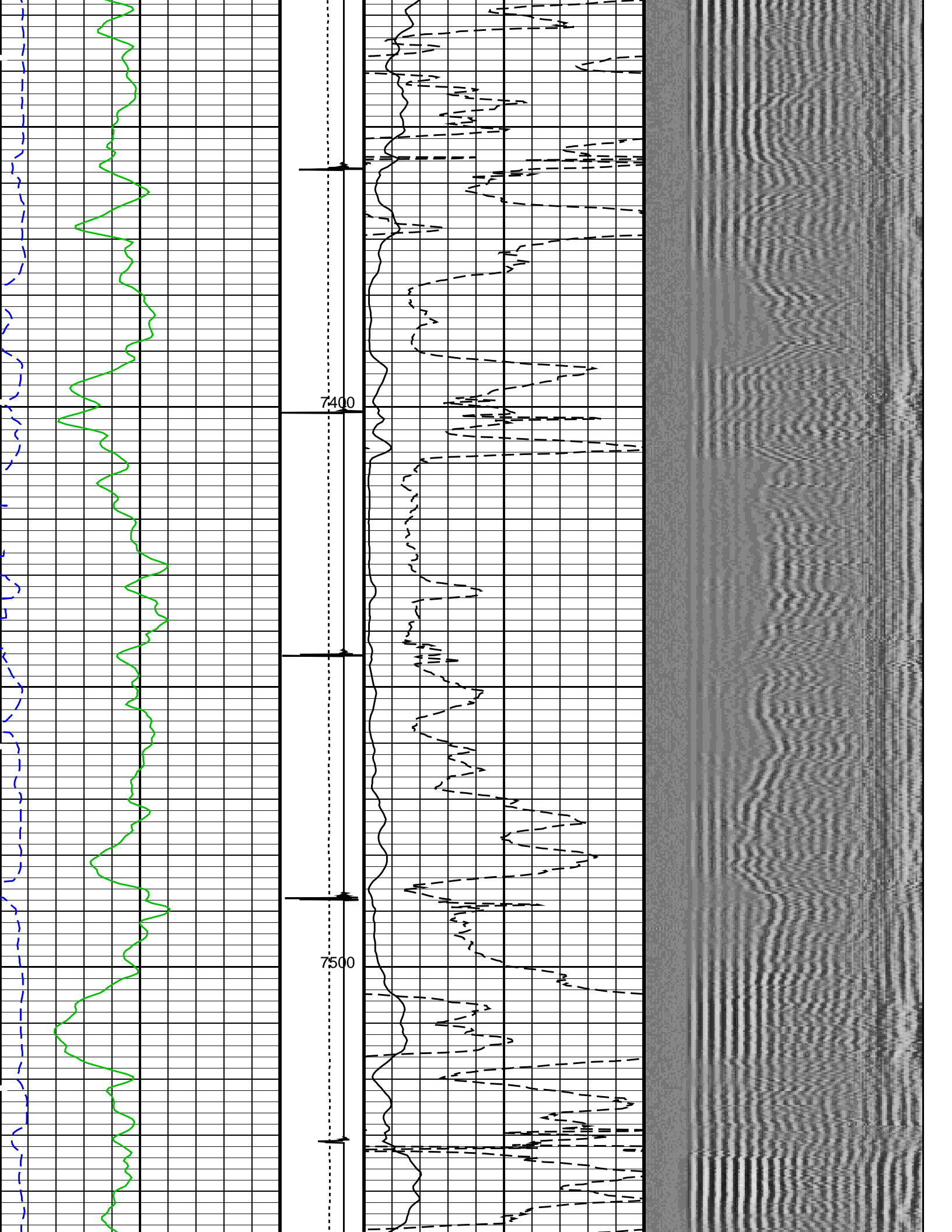


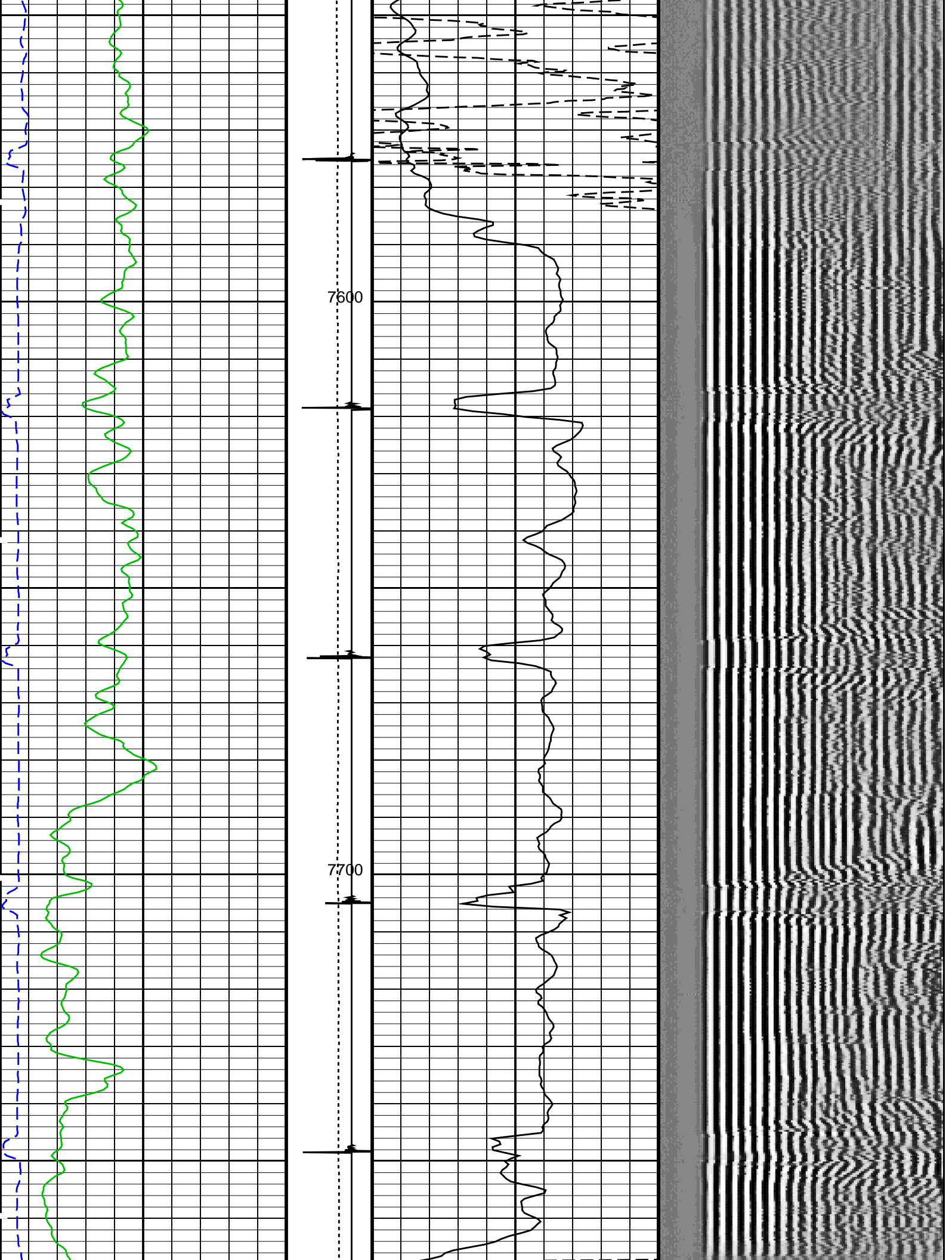


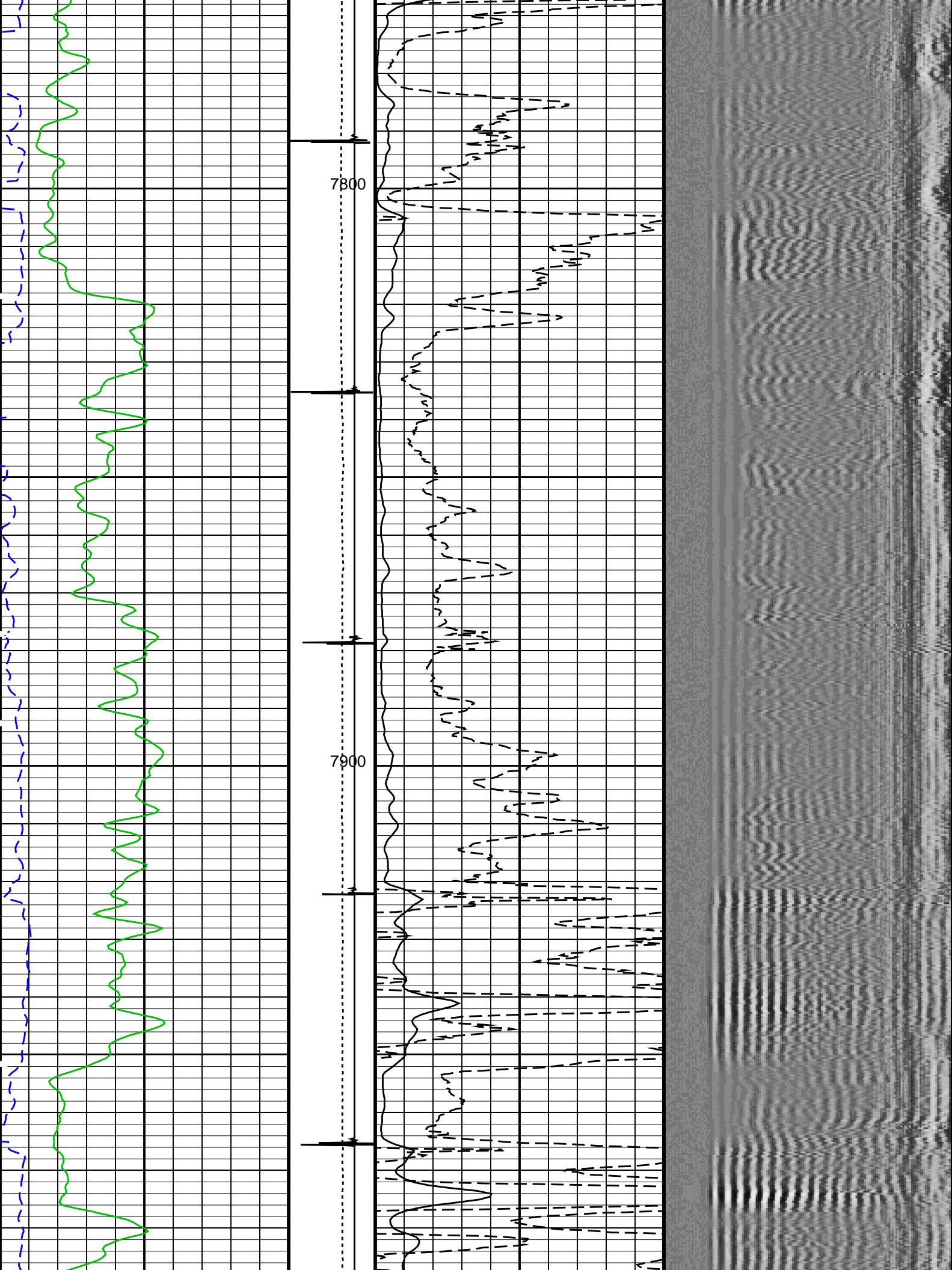


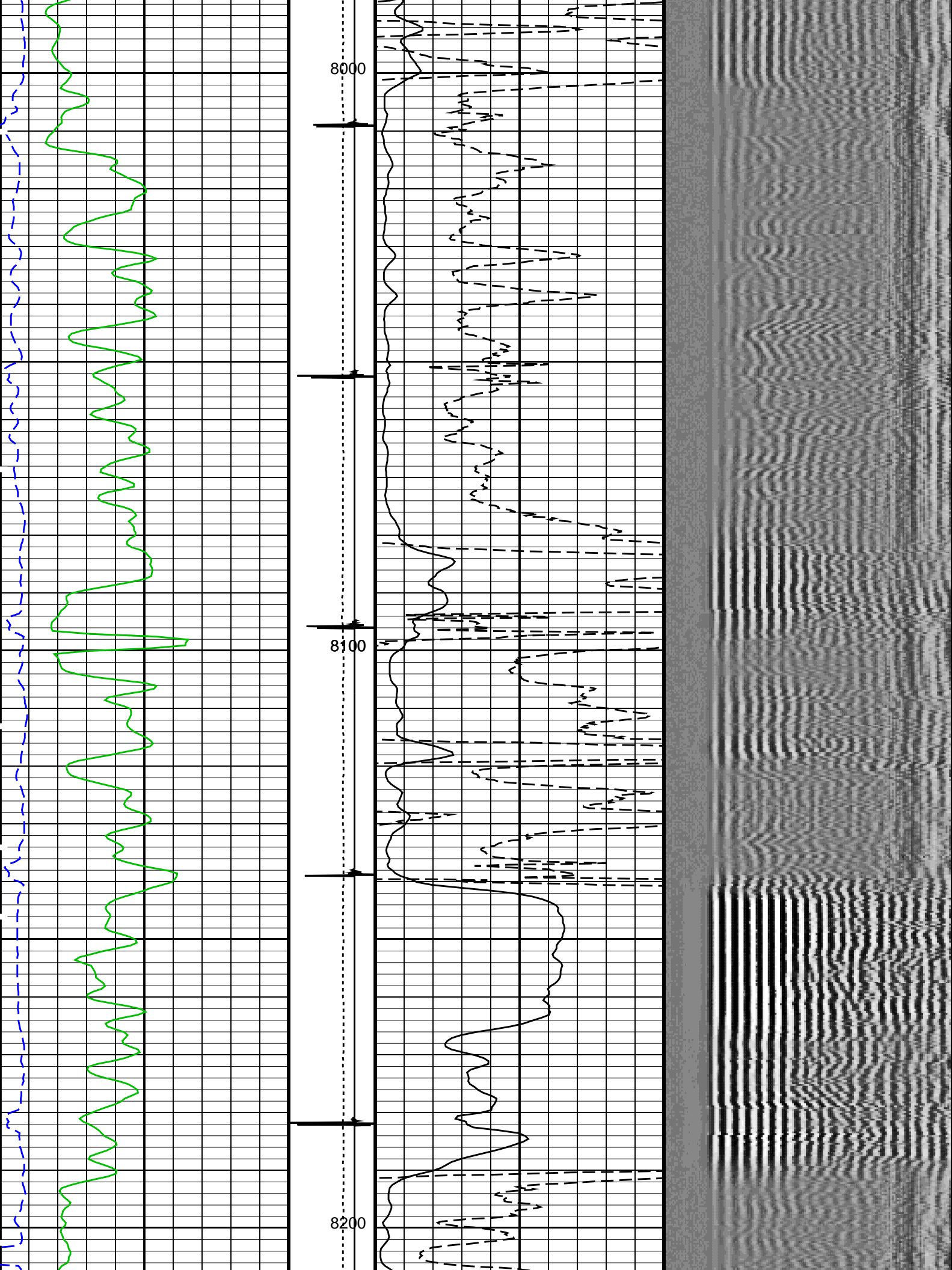


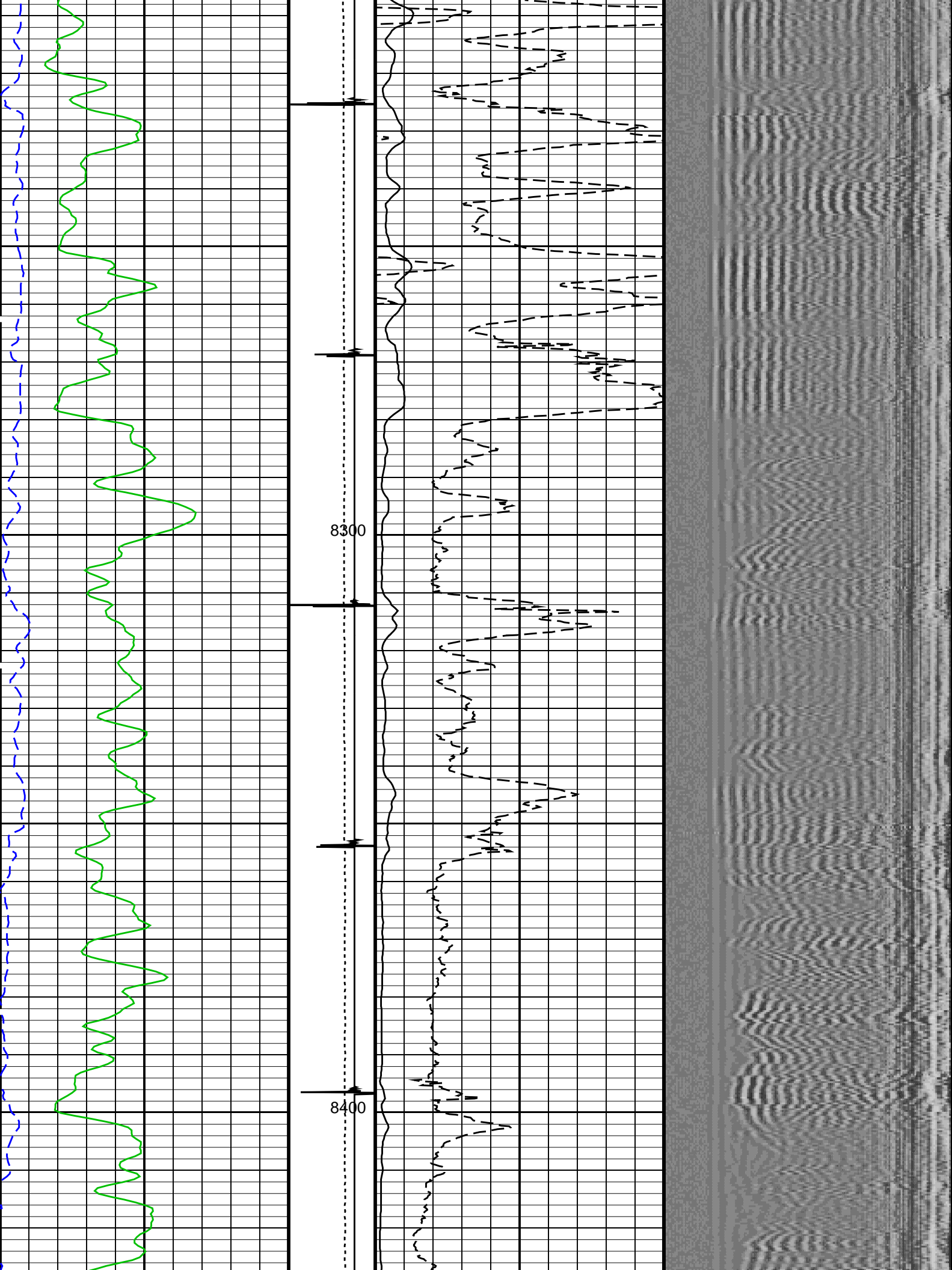


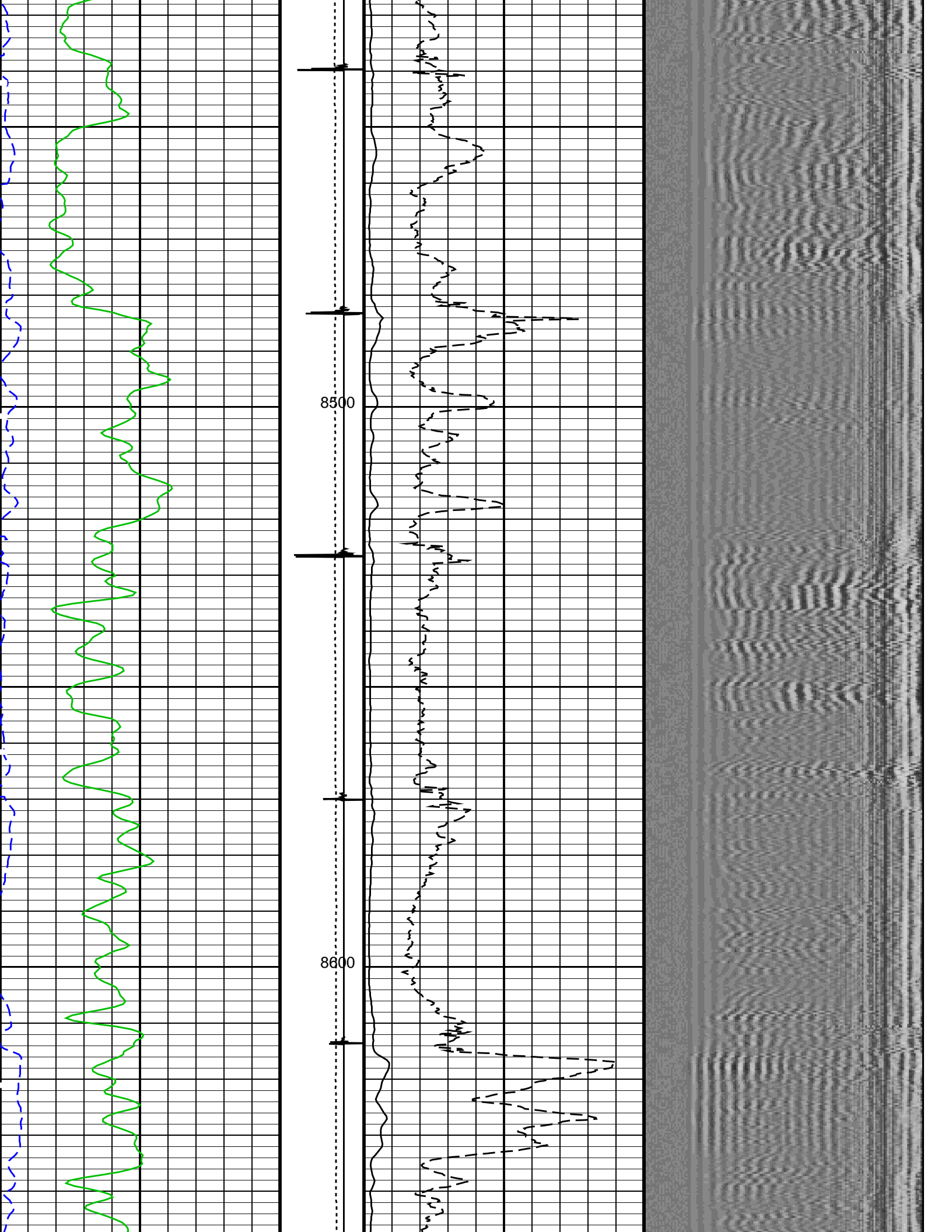


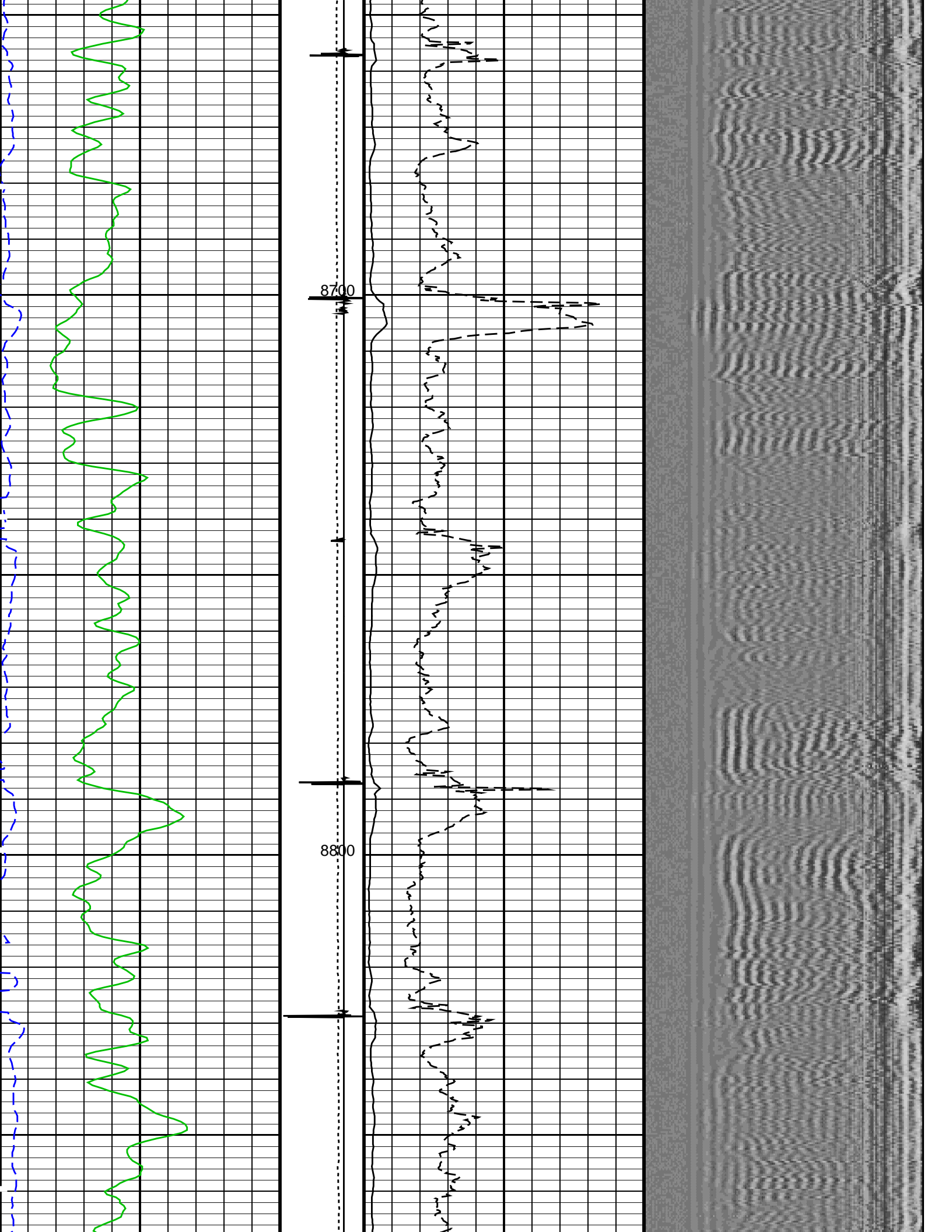


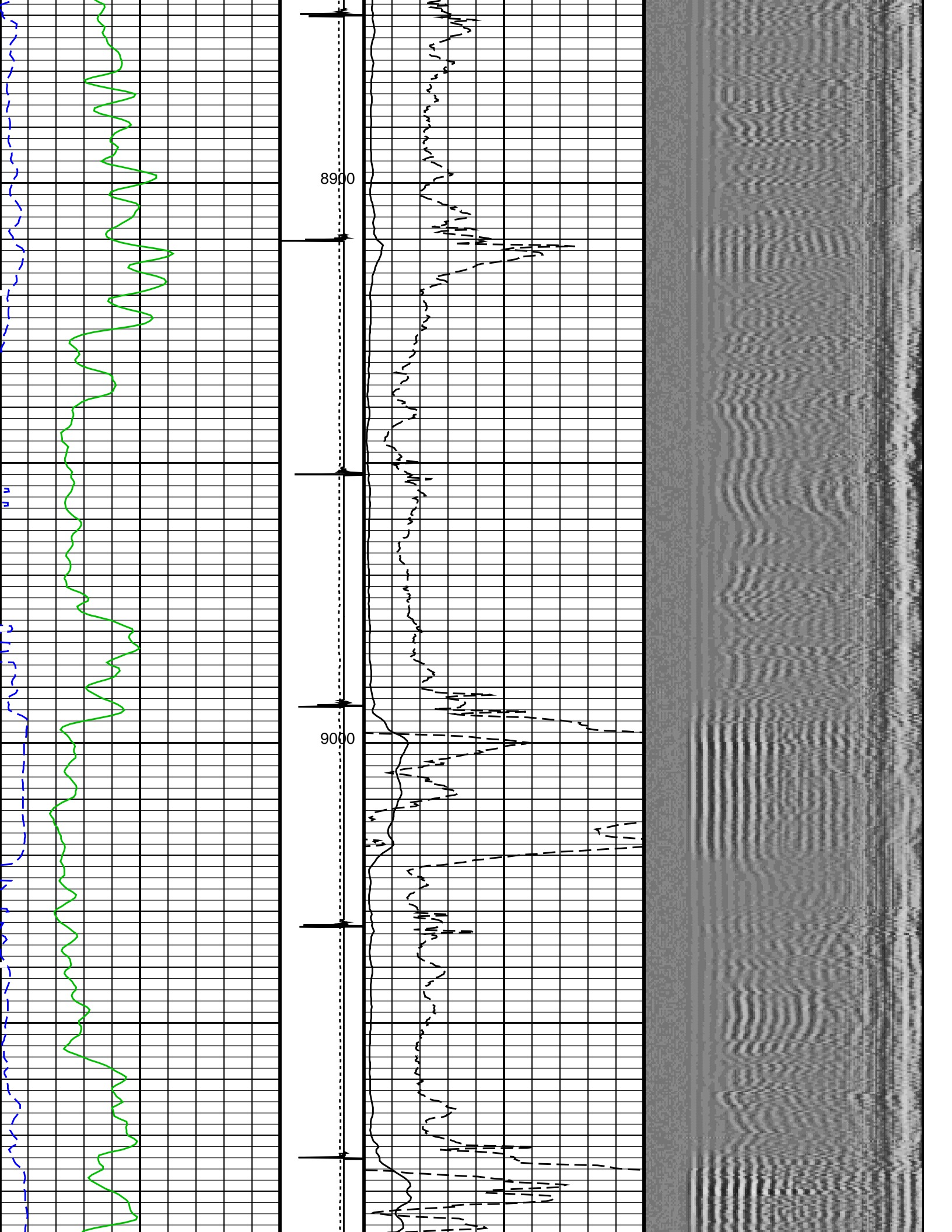


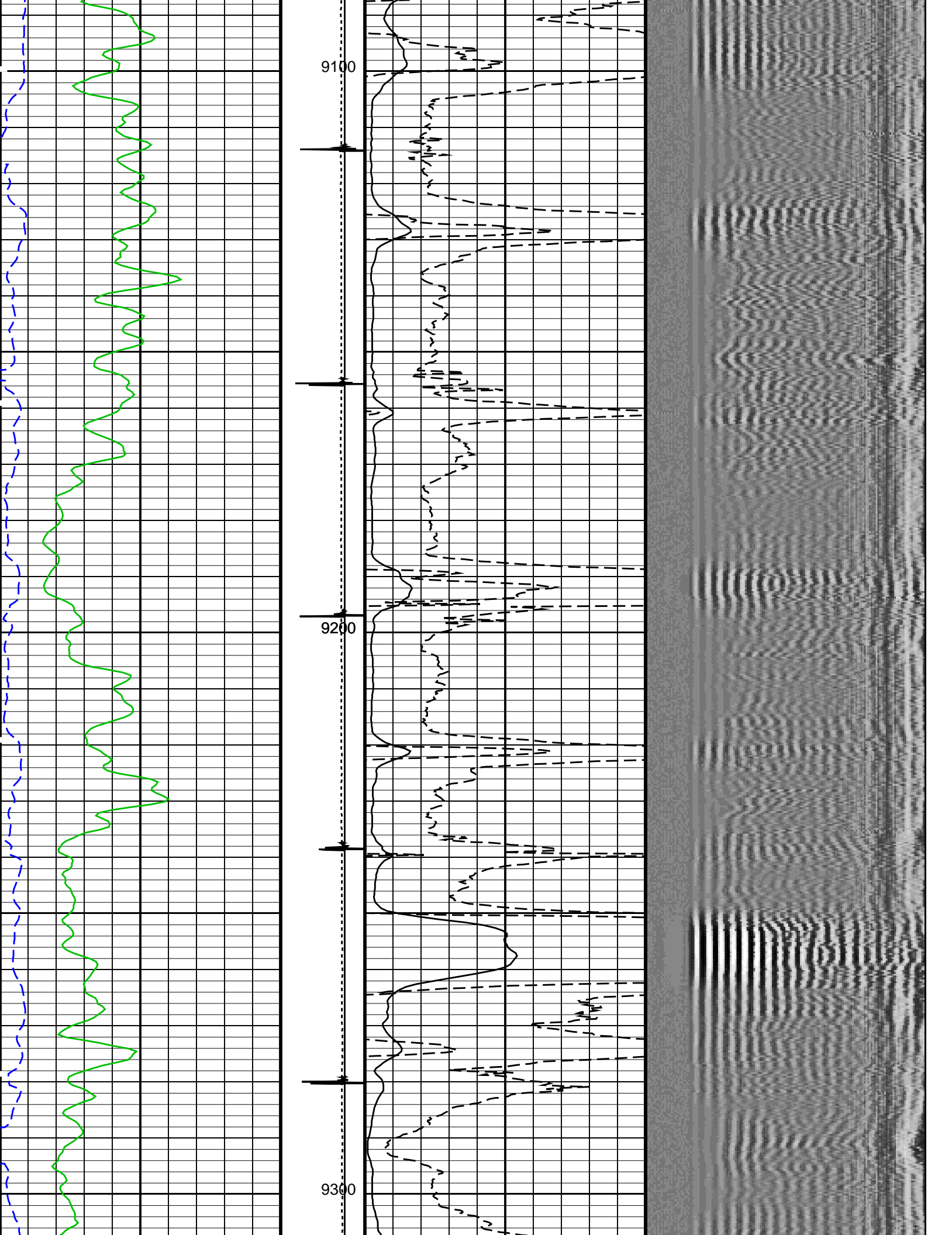


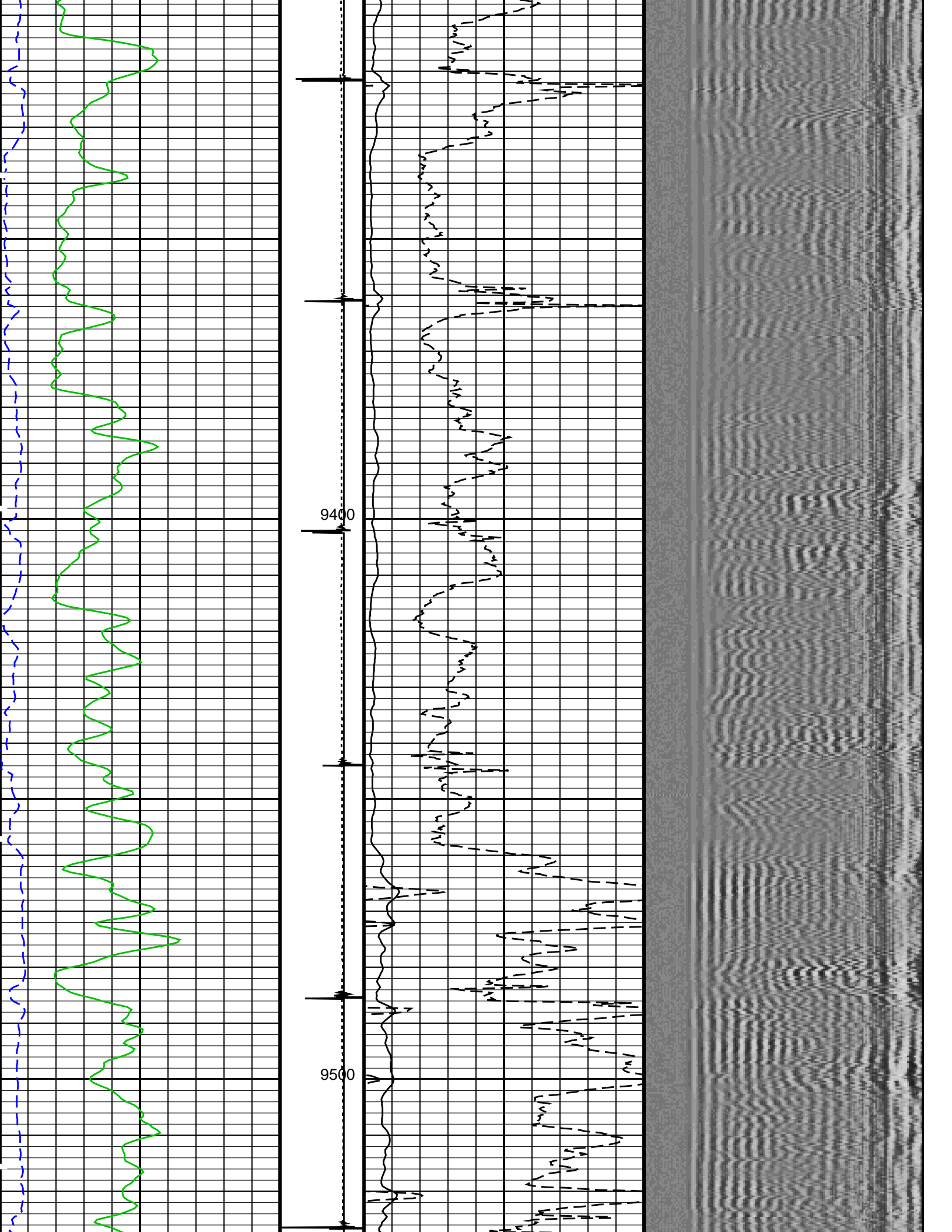


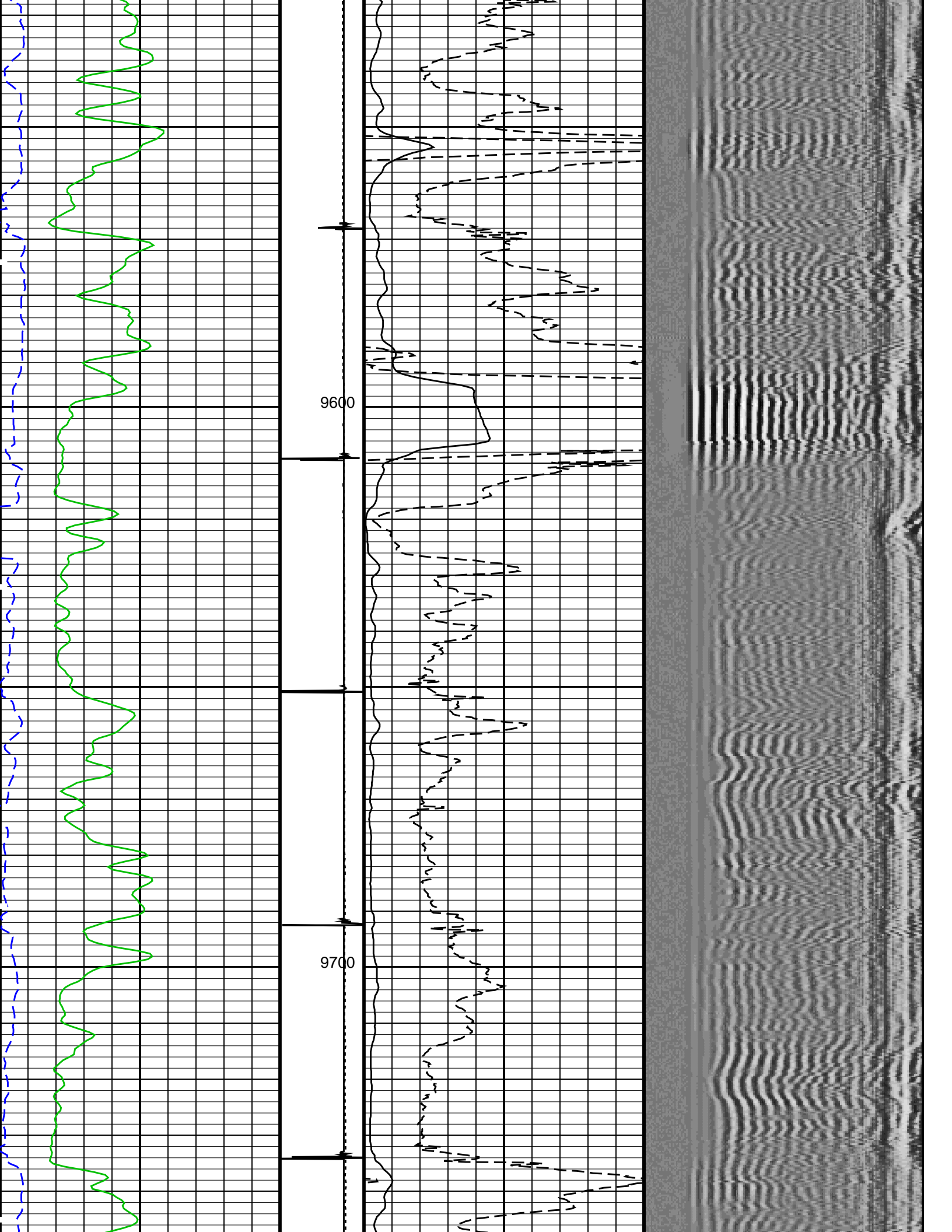


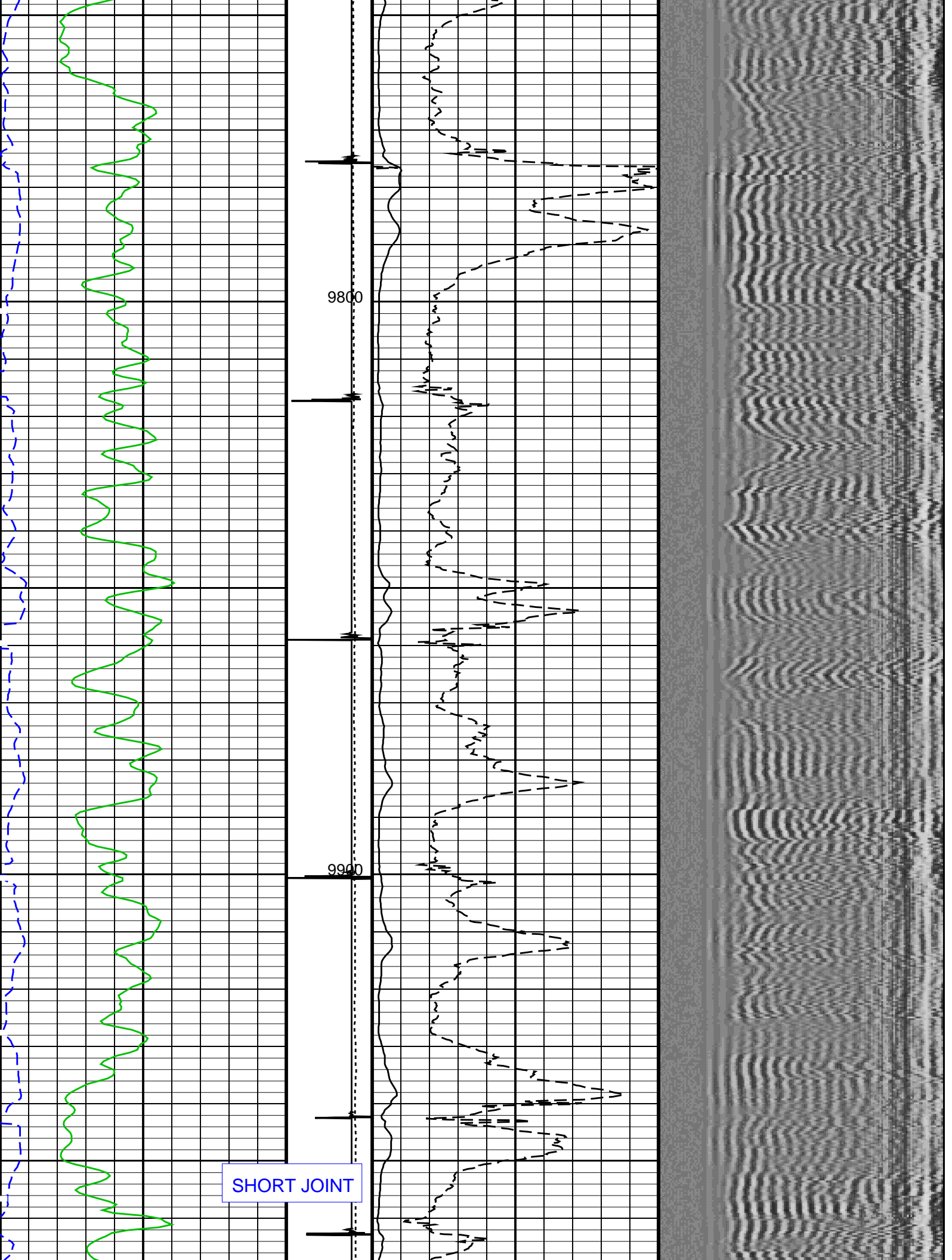


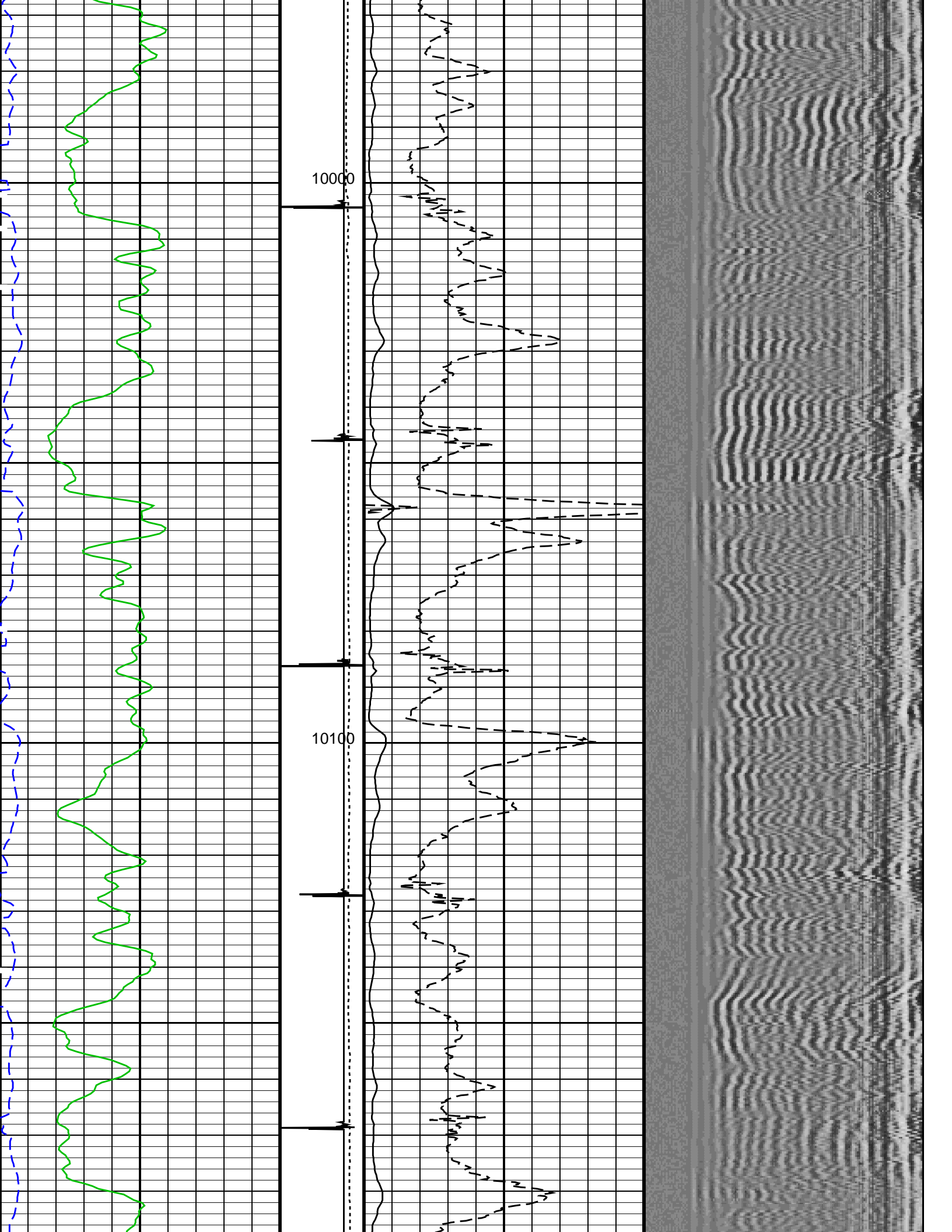


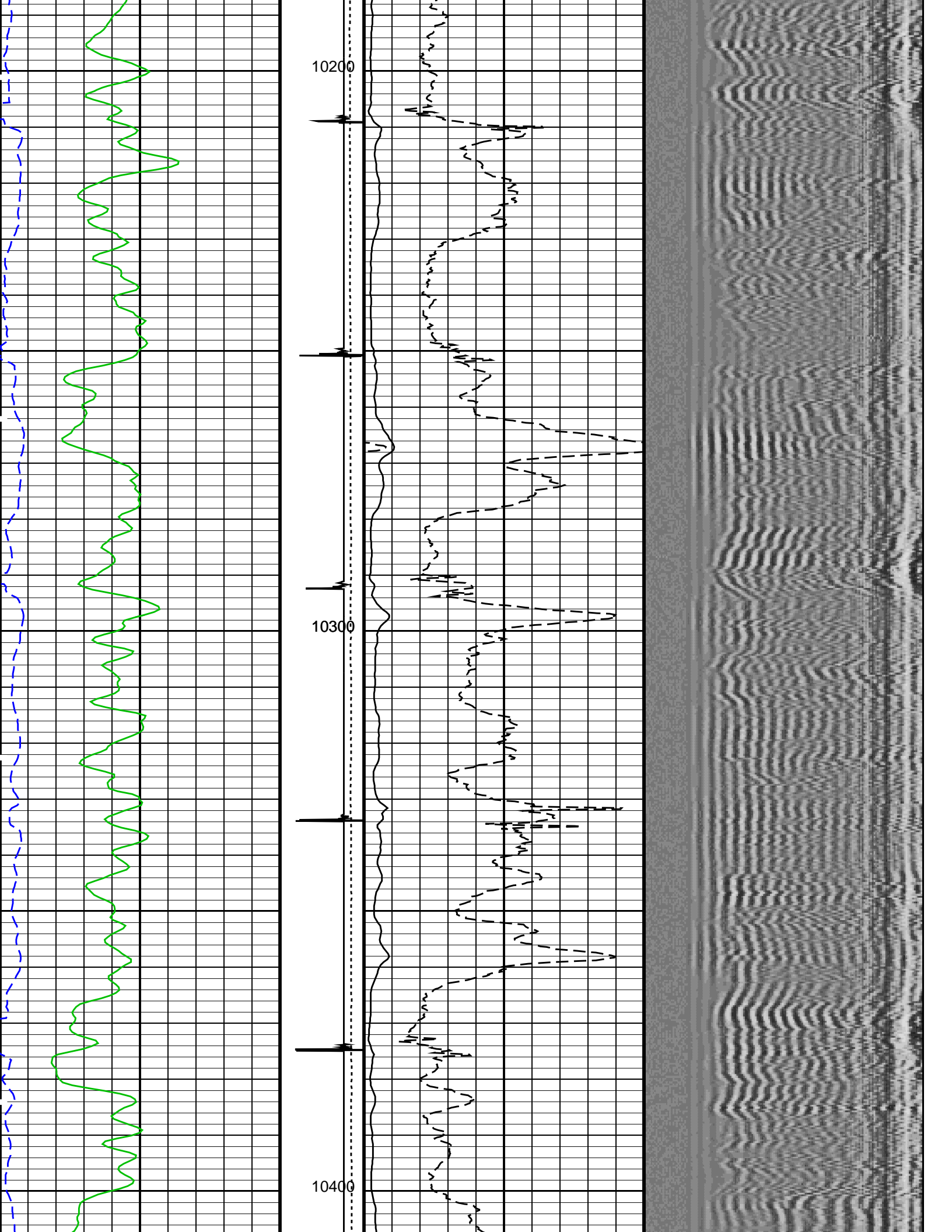


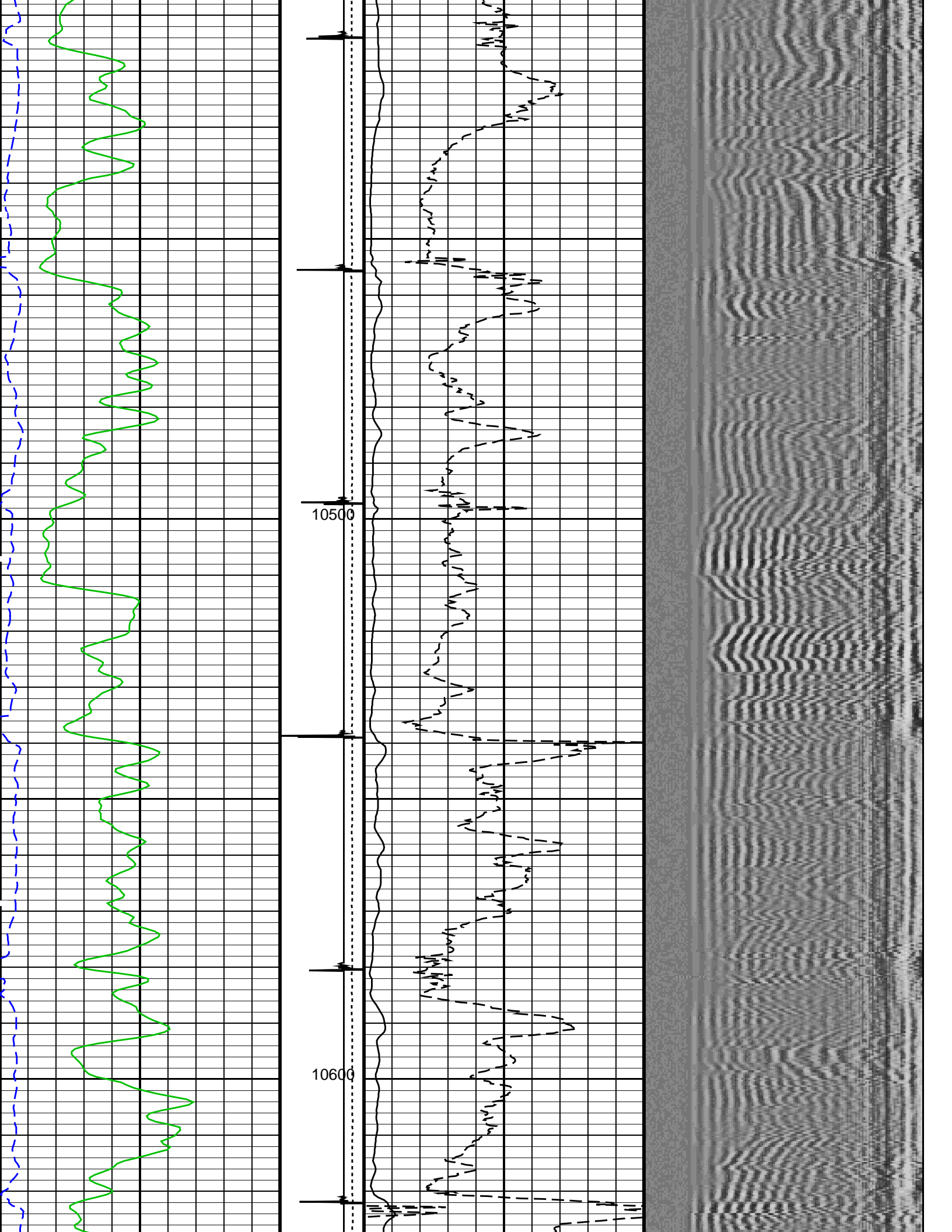


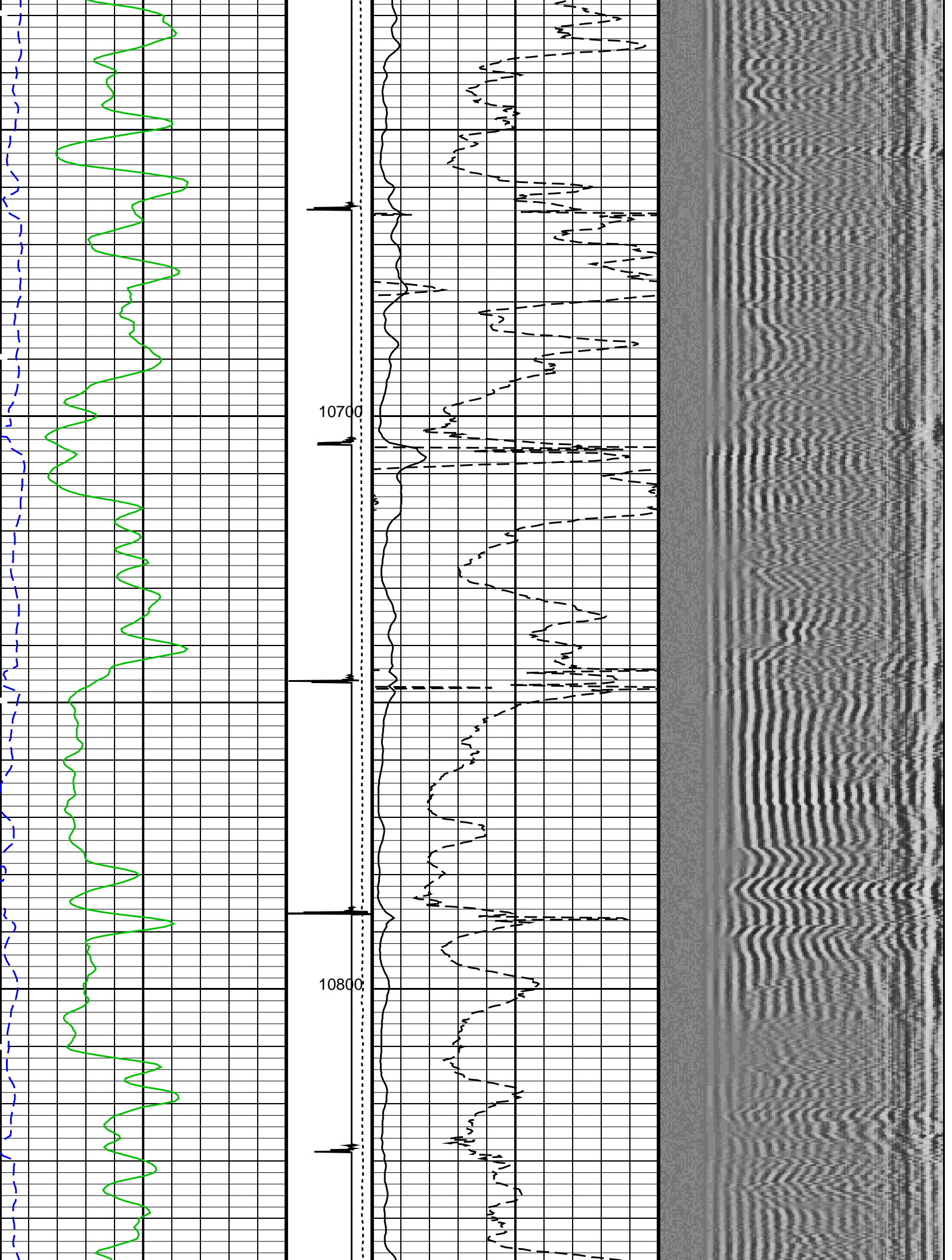


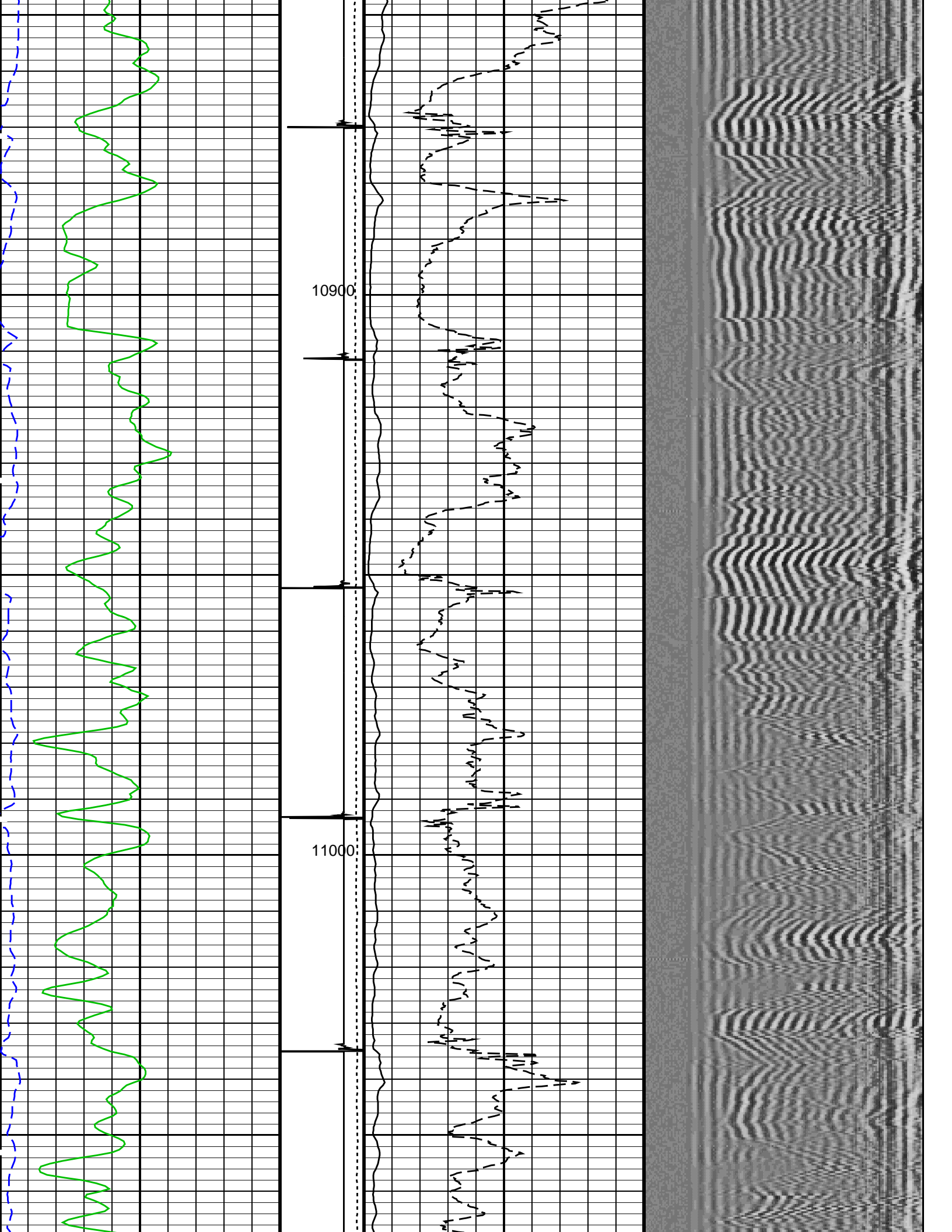


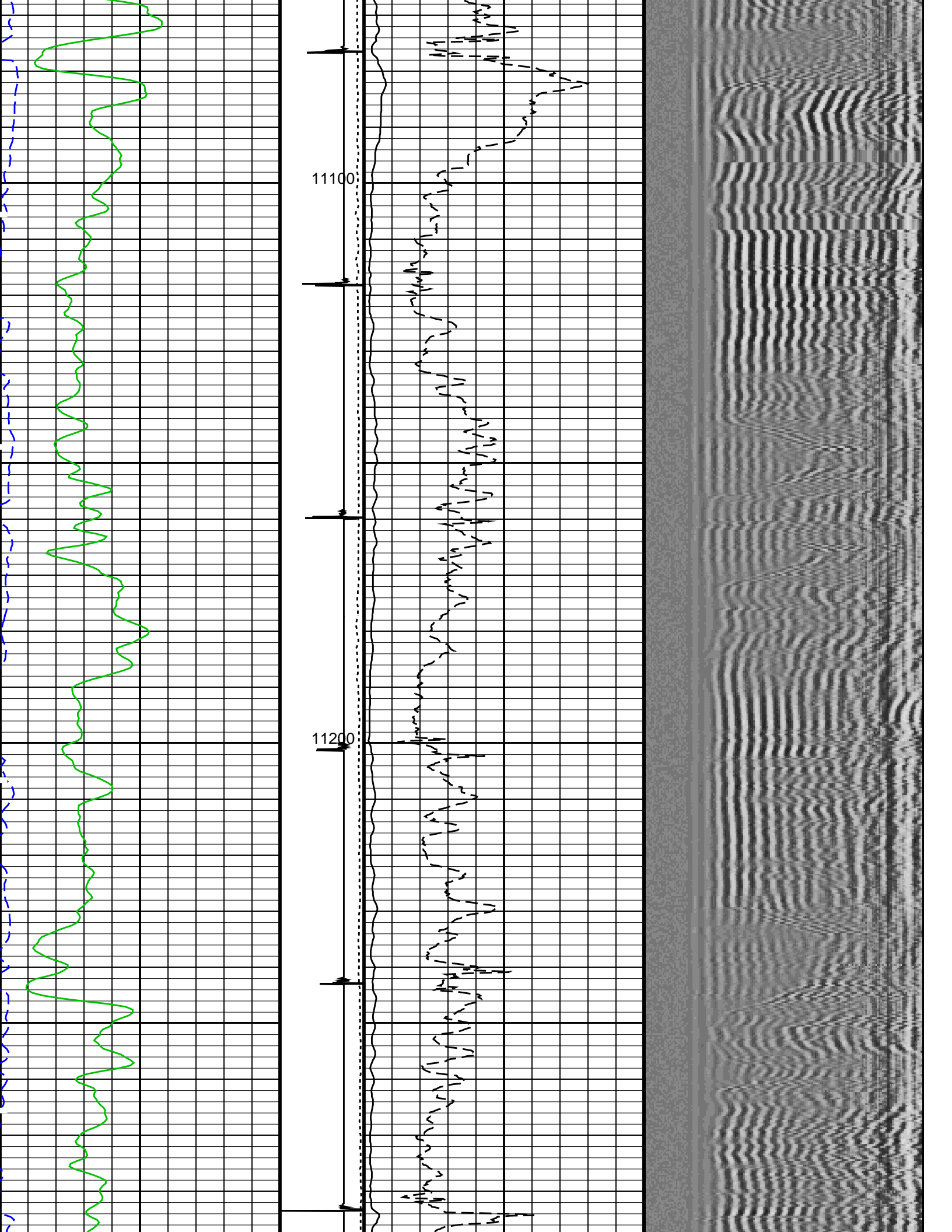


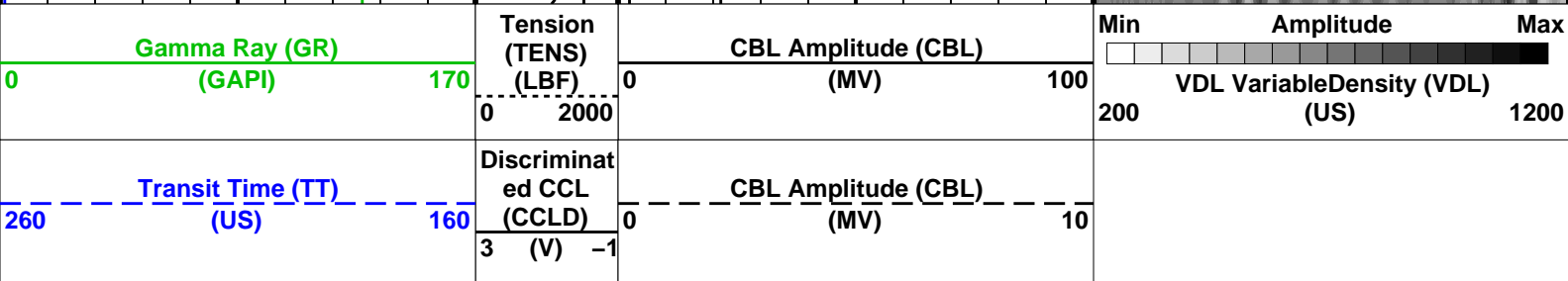
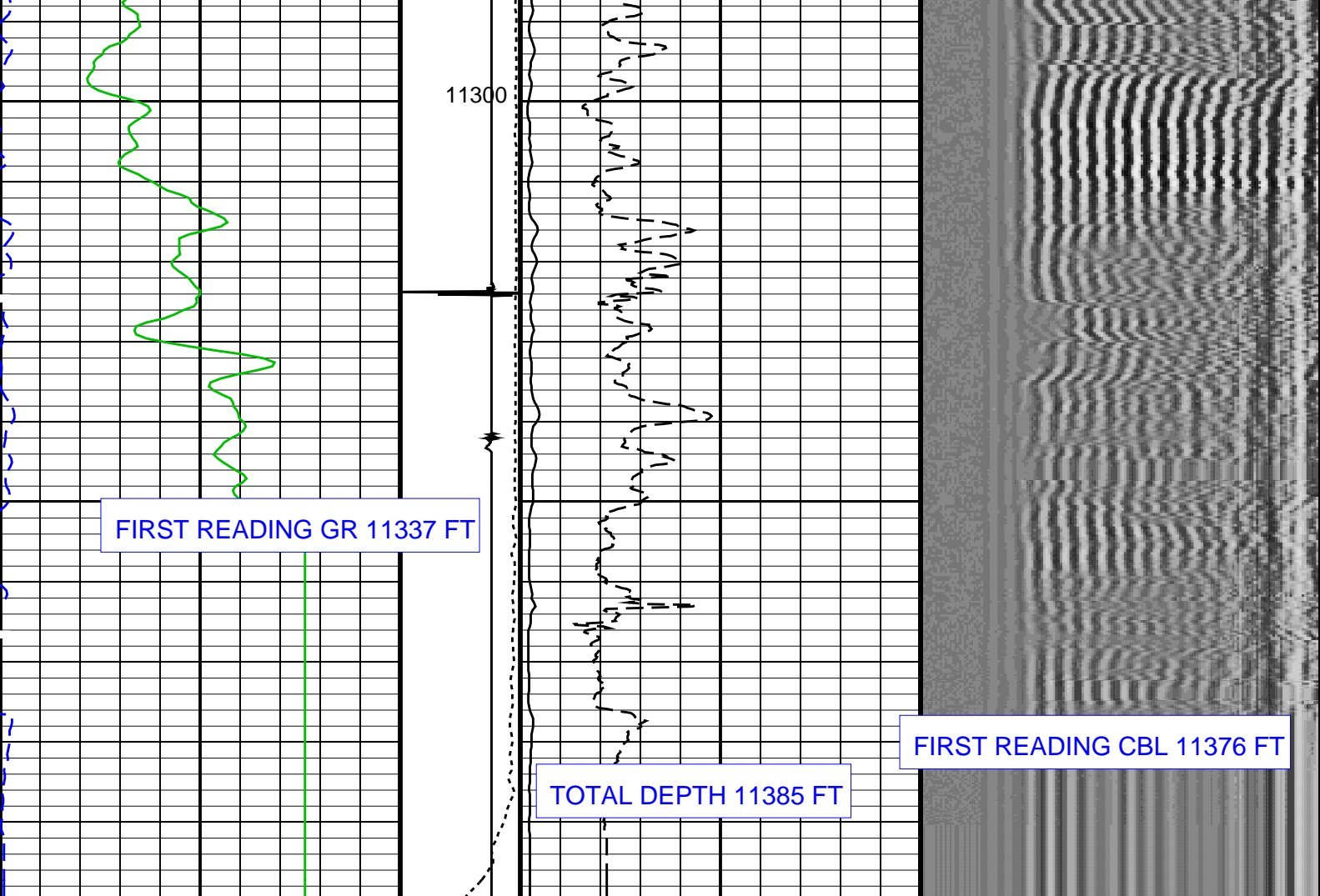












PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100'

Graphics File Created: 11-Jul-2012 22:58

OP System Version: 19C0-187

SCMT-CB PSPT	SRPC-5095-H2-2011-OP1! 19C0-187	RST-C	SRPC-5095-H2-2011-OP1!
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<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8179		
Current Casing Size	4.5000 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)
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Date of Master Calibration	6-MAR-2012
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CBL Correction Factor	0.0704263	CBL Adjustment Factor (CBAF)	0.900000
MAP 1 Correction Factor	0.0993191	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0941329		
MAP 3 Correction Factor	0.101552		
MAP 4 Correction Factor	0.114415		
MAP 5 Correction Factor	0.127992		
MAP 6 Correction Factor	0.121190		
MAP 7 Correction Factor	0.112867		
MAP 8 Correction Factor	0.102913		

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	45	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	0.902782	
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	8.60	LB/G
DO	Depth Offset for Playback	8.0	FT
DORL	Depth Offset for Repeat Analysis	15.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	11385	FT

Input DLIS Files

DEFAULT Splice_SCMT_RST_PSP_082CUP FN:1 PRODUCER 11-Jul-2012 22:23 11391.5 FT 110.0 FT

Output DLIS Files

DEFAULT SCMT_RST_PSP_085PUP FN:75 PRODUCER 11-Jul-2012 22:58



REPEAT ANALYSIS CBL VDL

Input DLIS Files

DEFAULT	Splice_SCMT_RST_PSP_082CUP	FN:1	PRODUCER	11-Jul-2012 22:23	11391.5 FT	110.0 FT
DEFAULT	SCMT_RST_PSP_083LUP	FN:73	PRODUCER	11-Jul-2012 22:43	7377.5 FT	6911.5 FT

Output DLIS Files

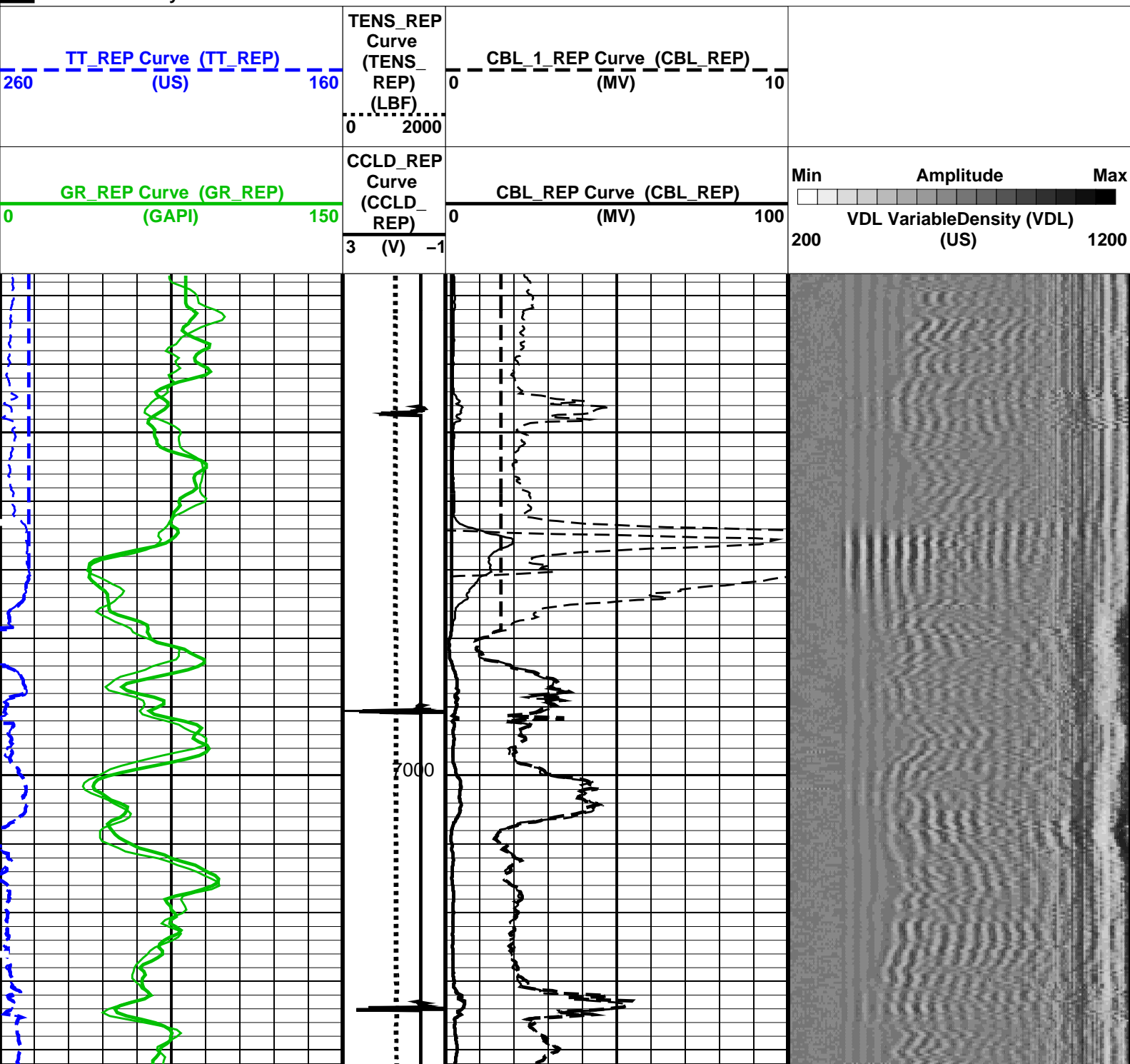
DEFAULT	SCMT_RST_PSP_085PUP	FN:75	PRODUCER	11-Jul-2012 22:58
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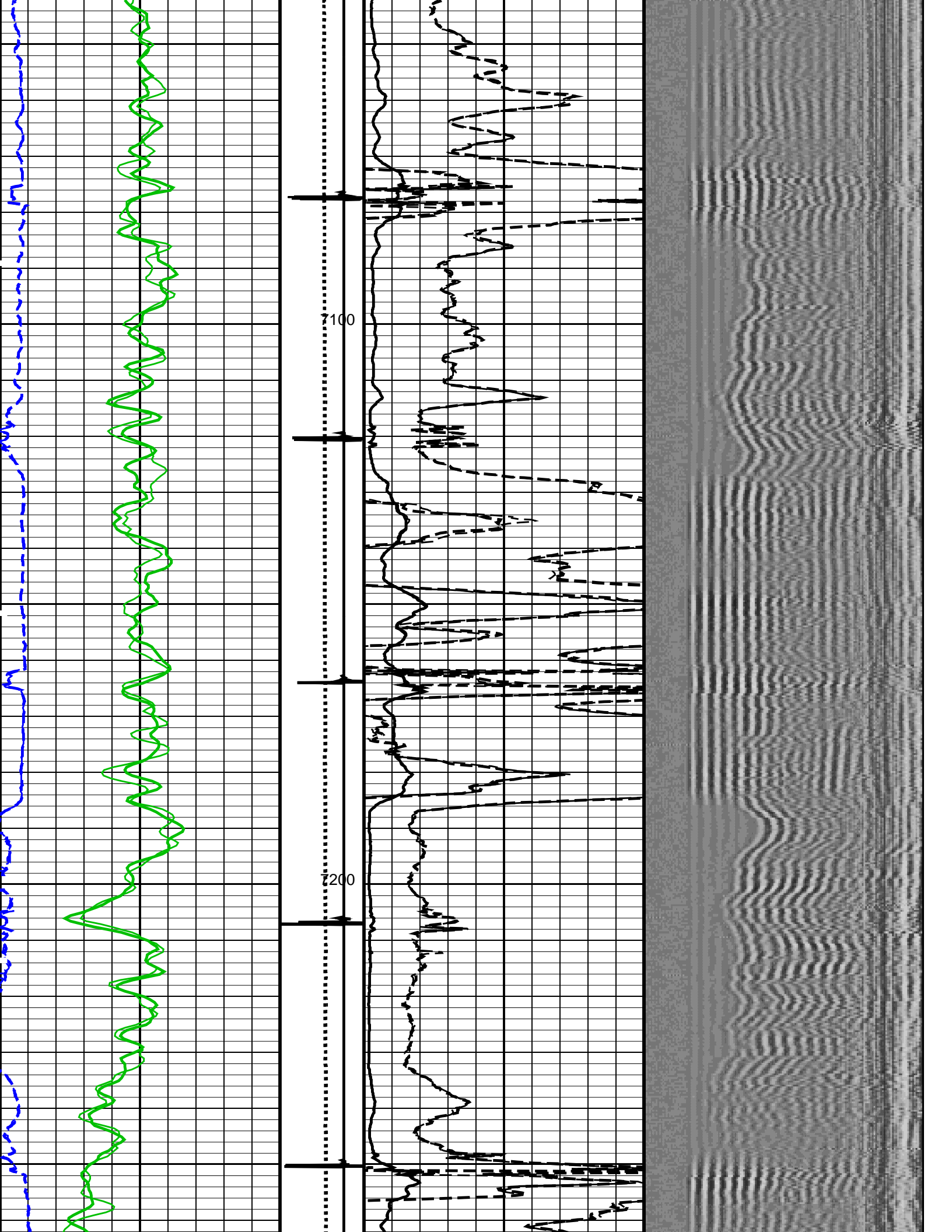
OP System Version: 19C0-187

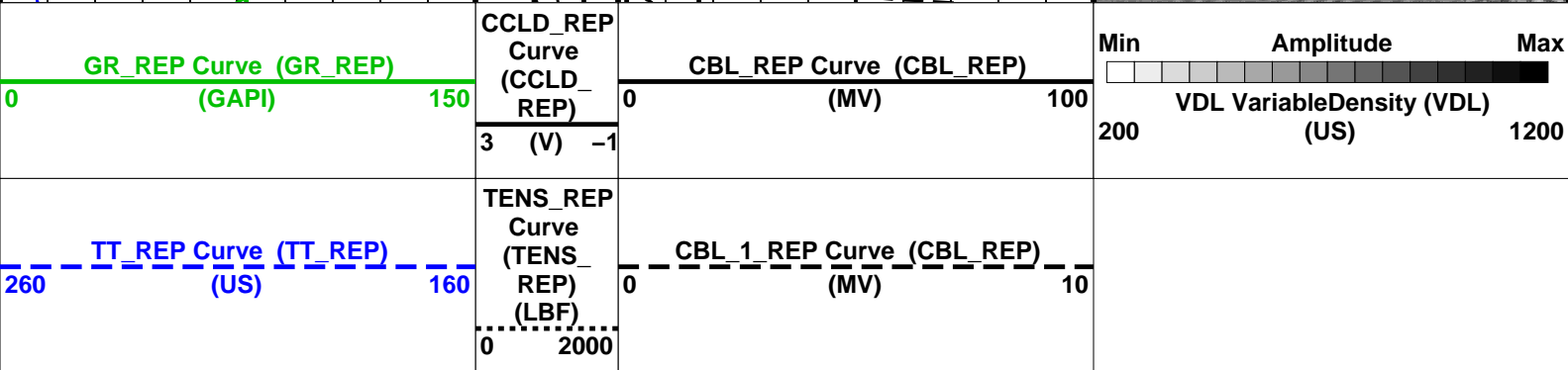
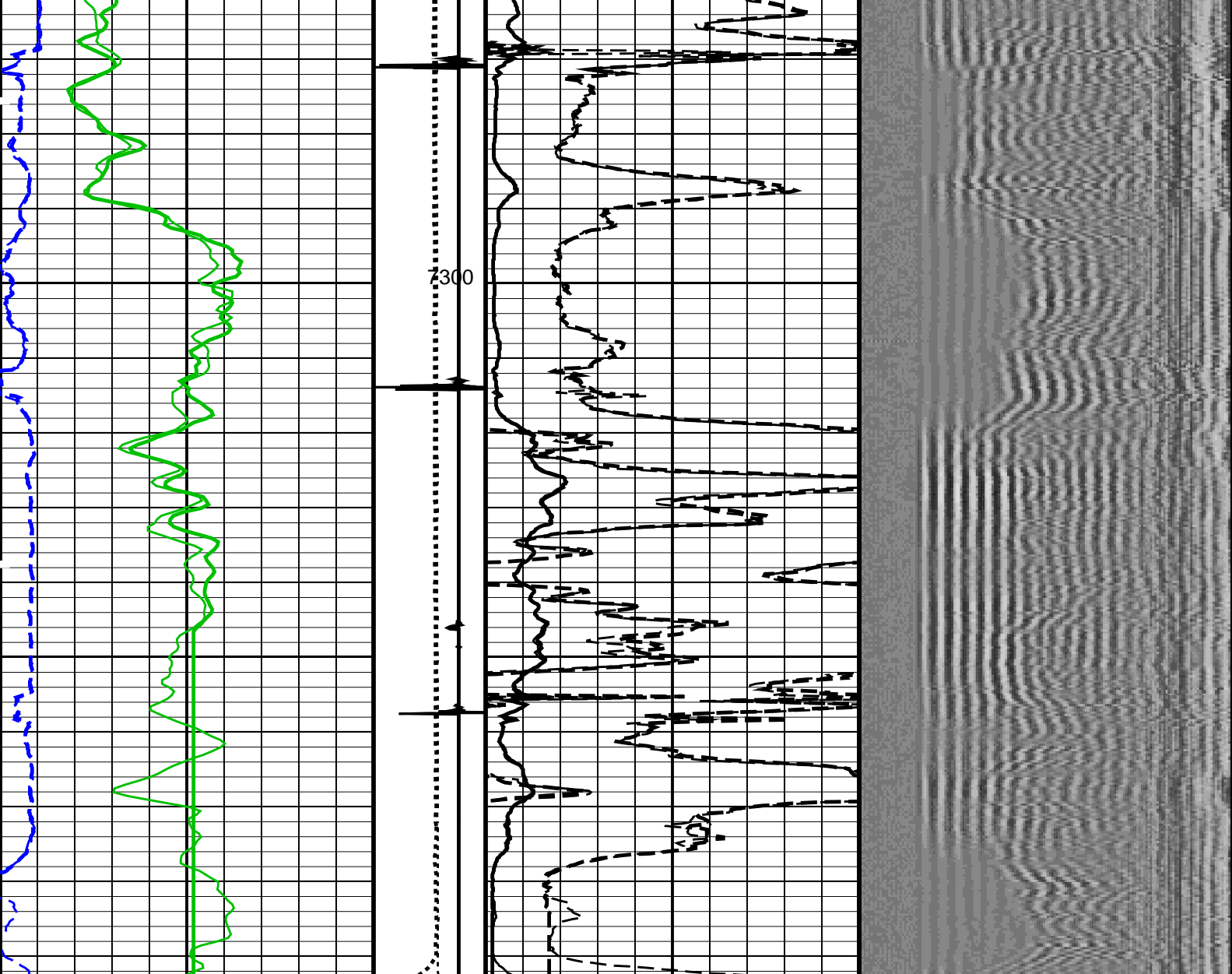
SCMT-CB PSPT	SRPC-5095-H2-2011-OP1! 19C0-187	RST-C	SRPC-5095-H2-2011-OP1!
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PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S
Format: CBL_VDL_REP Vertical Scale: 5" per 100' Graphics File Created: 11-Jul-2012 22:58

OP System Version: 19C0-187

SCMT-CB PSPT	SRPC-5095-H2-2011-OP1: 19C0-187	RST-C	SRPC-5095-H2-2011-OP1:
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<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8179
Current Casing Size	4.50000 IN
Casing Weight	11.6000 LB/F

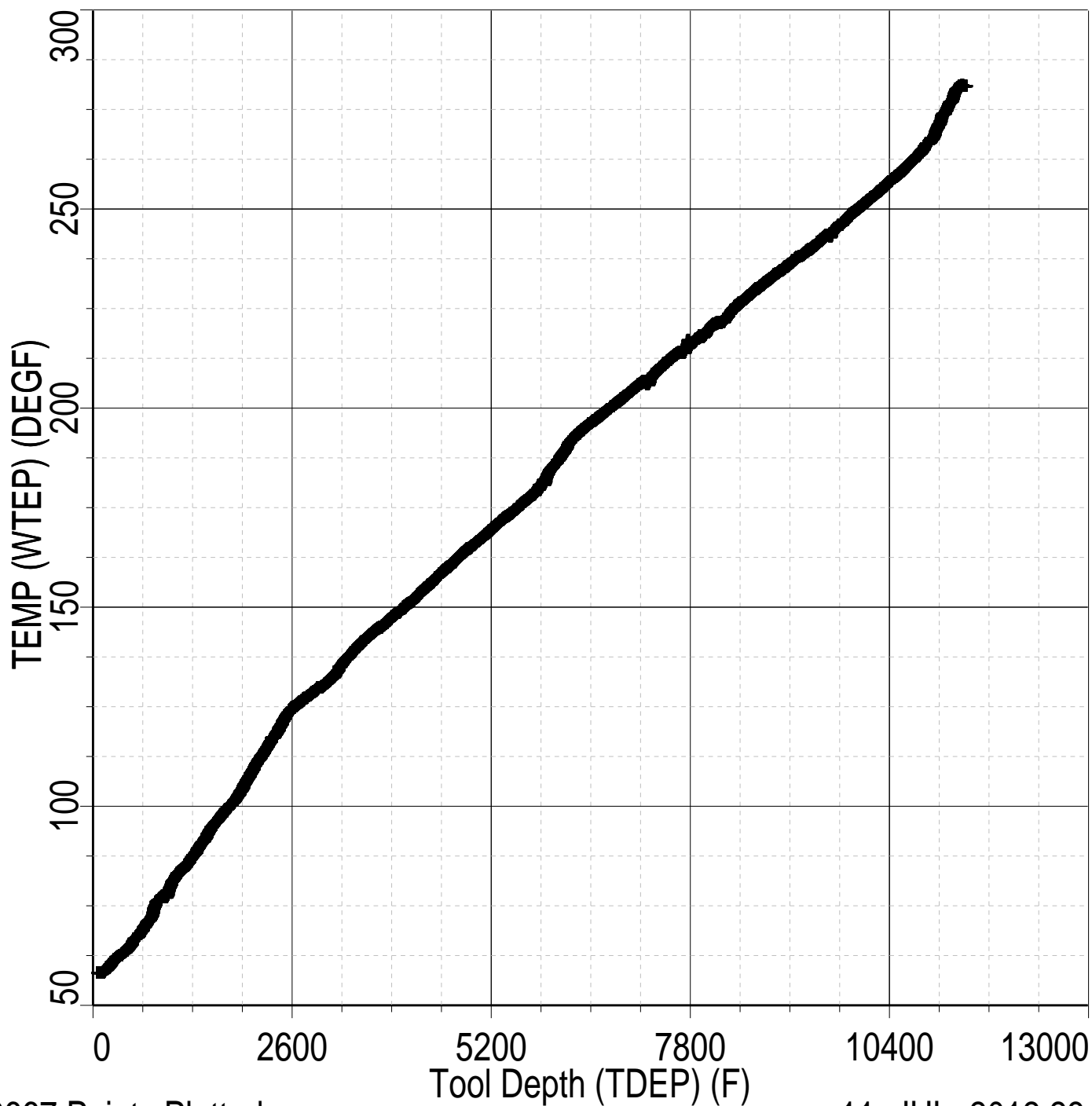
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.579149 MV (100% Cement)
			1.55185 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.32284 MV (100% Cement)
			8.10244 MV (80% Cement)
Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	6-MAR-2012		
CBL Correction Factor	0.0704263	CBL Adjustment Factor (CBAF)	0.900000
MAP 1 Correction Factor	0.0993191	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0941329		
MAP 3 Correction Factor	0.101552		
MAP 4 Correction Factor	0.114415		
MAP 5 Correction Factor	0.127992		
MAP 6 Correction Factor	0.121190		
MAP 7 Correction Factor	0.112867		
MAP 8 Correction Factor	0.102913		

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	45	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	0.902782	
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	8.60	LB/G
DO	Depth Offset for Playback	8.0	FT
DORL	Depth Offset for Repeat Analysis	15.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	11385	FT

Input DLIS Files						
DEFAULT	Splice_SCMT_RST_PSP_082CUP	FN:1	PRODUCER	11-Jul-2012 22:23	11391.5 FT	110.0 FT
DEFAULT	SCMT_RST_PSP_083LUP	FN:73	PRODUCER	11-Jul-2012 22:43	7377.5 FT	6911.5 FT
Output DLIS Files						
DEFAULT	SCMT_RST_PSP_085PUP	FN:75	PRODUCER	11-Jul-2012 22:58		

MAXIS Field Log

Index: 11399.5 – 66.5 FT



22667 Points Plotted

11-JUL-2012 23:07

MAXIS Field Log

Client:	Tool:	PSP
Field:	Sub Type:	PBMS
Well:	Sensor:	Clock Model
Run date:		

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:	Tool:	PSP
Field:	Sub Type:	PBMS
Well:	Sensor:	Sapphire
Run date:		

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
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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	+.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	+.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:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

GR

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:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

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
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Schlumberger

MASTER CALIBRATION





MAXIS Field Log






Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Slim Cement Mapping Tool, 1–11/16 OD Master Calibration – SCMT CBL and MAP Amplitude Normalization in SFT–155/–255							
Master: 6–Mar–2012 15:06							
MAP 1 Amplitude Plus	1075	1208	--	--	--	--	MV
MAP 2 Amplitude Plus	1075	1275	--	--	--	--	MV
MAP 3 Amplitude Plus	1075	1182	--	--	--	--	MV
MAP 4 Amplitude Plus	1075	1049	--	--	--	--	MV
MAP 5 Amplitude Plus	1075	937.6	--	--	--	--	MV
MAP 6 Amplitude Plus	1075	990.2	--	--	--	--	MV
MAP 7 Amplitude Plus	1075	1063	--	--	--	--	MV
MAP 8 Amplitude Plus	1075	1166	--	--	--	--	MV
CBL Amplitude Plus	1350	1363	--	--	--	--	MV

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

Primary Equipment:			
Slim Cement Mapping Xmitter Electronics	SCMX – CA		
Slim Cement Mapping Sonde	SCMS – CB	8179	
Slim Cement Mapping Cartridge	SCMC – CA	8172	
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		1208	Master		1275
	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		1182	Master		1049
	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				937.6	Master				990.2
	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				1063	Master				1166
	500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)			500.0 (Minimum)	1075 (Nominal)	1650 (Maximum)	
Phase	CBL Amplitude Plus MV			Value					
Master				1363					
	1000 (Minimum)	1350 (Nominal)	1700 (Maximum)						
Master: 6-Mar-2012 15:06									

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

Schlumberger

Well: **DW 8608E-28 (P28496)**

Field: **Double Willow**

County: **Garfield**

State: **Colorado**

SLIM CEMENT MAPPING TOOL

CBL – VDL

GAMMA RAY – CCL