

Schlumberger

Company: PetroPro Engineering, Inc

Well: Winn 2

Field: 3rd Creek

County: Adams

State: CO

CBL, CCL, GR, WTEP, WPRE

County: Adams  
Field: 3rd Creek  
Location: 1200' FSL, 600' FWL  
Well: Winn 2  
Company: PetroPro Engineering, Inc

County:		Adams		1200' FSL, 600' FWL		Elev.: K.B. 5269.00 ft			
Field:		3rd Creek		G.L. 5259.00 ft		D.F. 5269.00 ft			
Location:		1200' FSL, 600' F							
Well:		Winn 2							
Company:		PetroPro Enginee							
Logging Date		LOCATION		Permanent Datum:		GROUND LEVEL			
		API Serial No. 05-001-06922		Log Measured From:		Kelly Bushing			
				Drilling Measured From:		Kelly Bushing			
Run Number		25-Aug-2015		Section 6		Township 2S		Range 65W	
Depth Driller		1		8400 ft					
Schlumberger Depth									
Bottom Log Interval		7765 ft							
Top Log Interval									
Casing Fluid Type		Fresh Water							
Salinity									
Density		8.4 lbm/gal							
Fluid Level									
BIT/CASING/TUBING STRING									
Bit Size		8.000 in							
From									
To									
Casing/Tubing Size		4.500 in							
Weight		11.6 lbm/ft							
Grade									
From									
To									
Maximum Recorded Temperatures		220 degF							
Logger On Bottom		25-Aug-2015							
Unit Number		354		6690					
Recorded By		Shelby Langford							
Witnessed By									

PVT DATA		Run 1	Run 2	Run
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				
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				
Unit Number				
Recorded By				
Witnessed By				

## DEPTH SUMMARY LISTING

Date Created: 25-AUG-2015 16:37:58

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	5783	Serial Number:	1163	Serial Number:	354
Calibration Date:	10-Aug-2015	Calibration Date:	21-Aug-2015	Length:	17000 FT
Calibrator Serial Number:		Calibrator Serial Number:	1150	Conveyance Method:	Wireline
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-3	Calibration RMS:	7		
Wheel Correction 2:	-3	Calibration Peak Error:	13		

## Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 FT
Rig Up Length At Bottom:	0.00 FT
Rig Up Length Correction:	0.00 FT
<b>Stretch Correction:</b>	
Tool Zero Check At Surface:	2.00 FT

### Depth Control Remarks

1. GR Peak @ 7480'
- 2.
3. DV Tool @ 1625'
- 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: NONE	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Coreelated to Log ran by Dresser Atlas April 1975	
Correlated to Gamma Ray peak 7480'	
DV Tool located at 1625'	



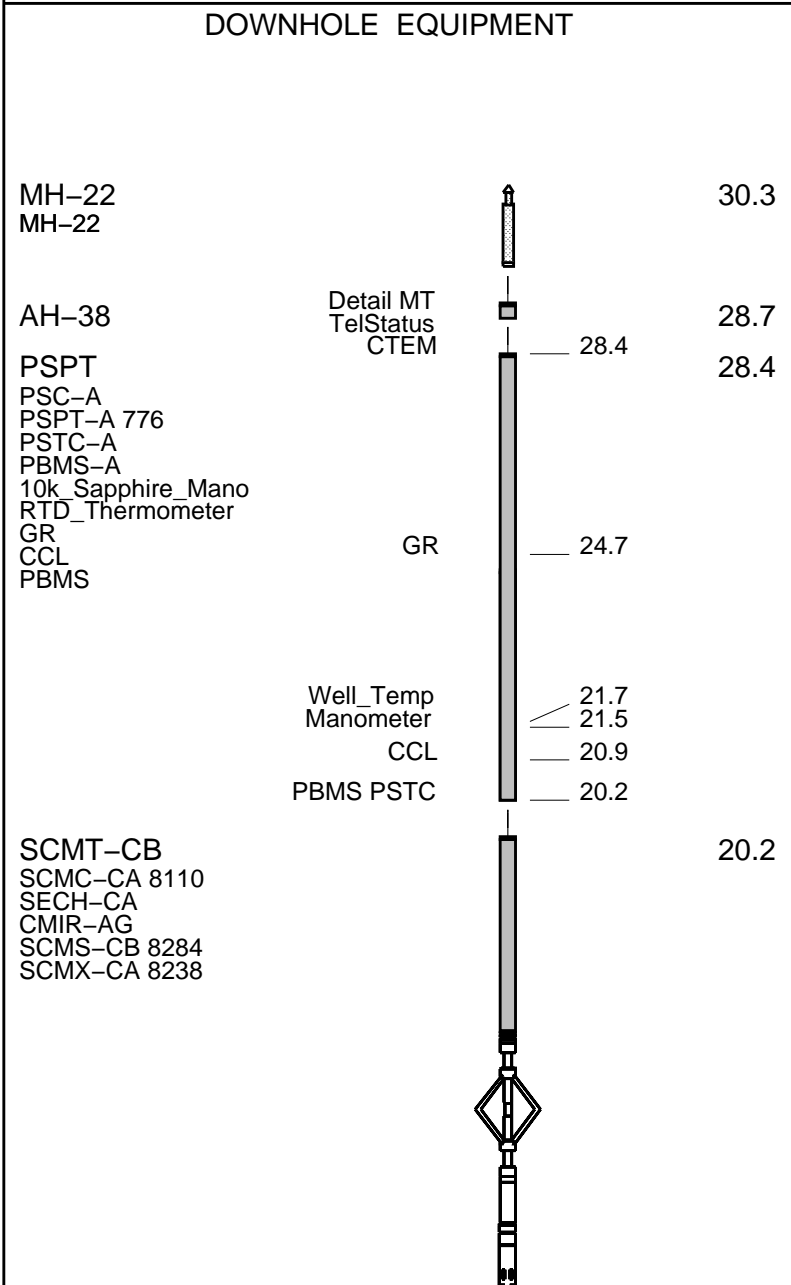
Thank You for choosing E&P Wireline.	
Your Crew today has been	
Roger Wiley	
Mark Hoffman	
John White	
Shelby Langford	

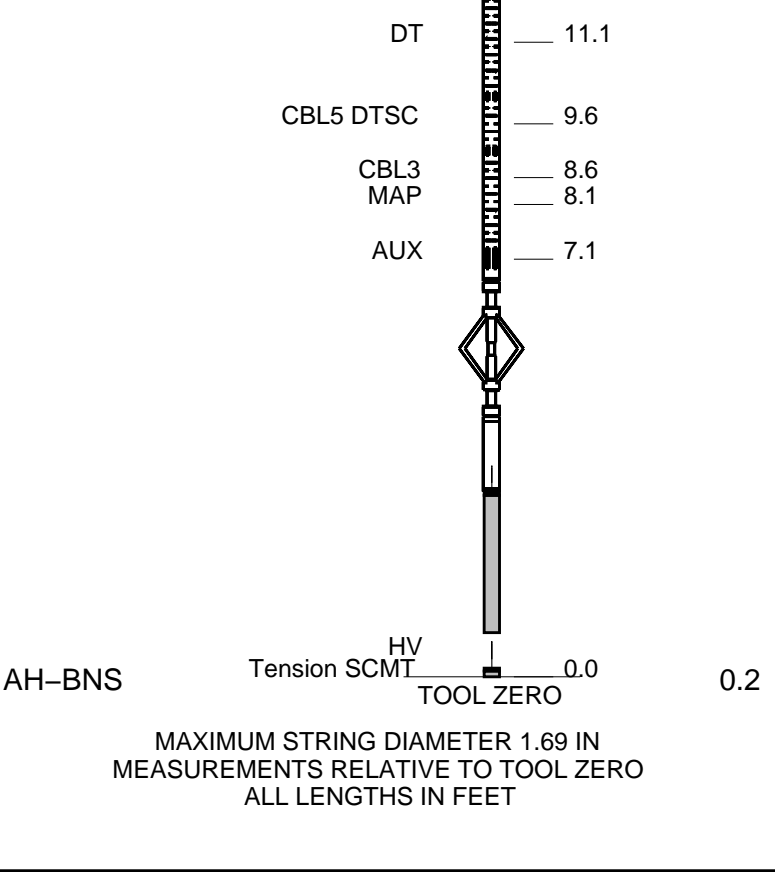
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT

WITM-A  
PSC\_16MHZ





# Upper Main Pass 0 Surface PSI

MAXIS Field Log

Company: PetroPro Engineering, Inc Well: Winn 2

## Input DLIS Files

DEFAULT SCMT\_PSP\_030LUP FN:29 PRODUCER 25-Aug-2015 16:32 1826.0 FT 31.0 FT

## Output DLIS Files

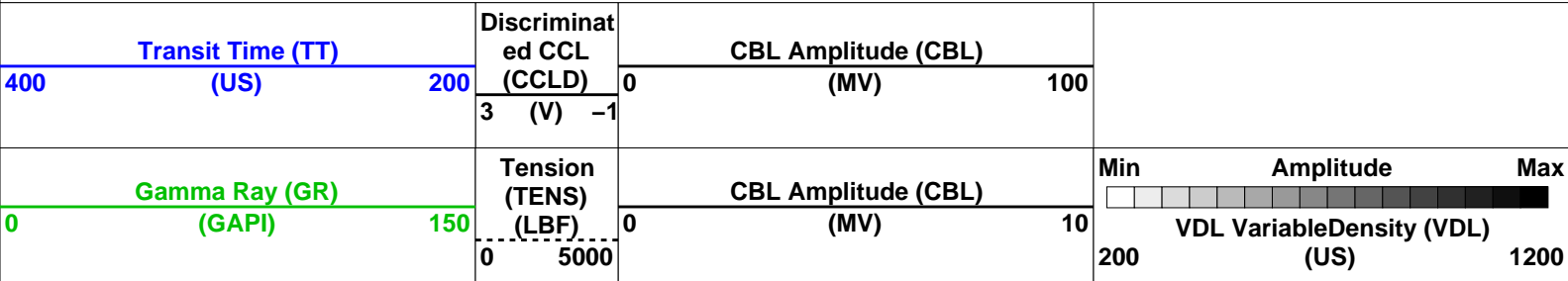
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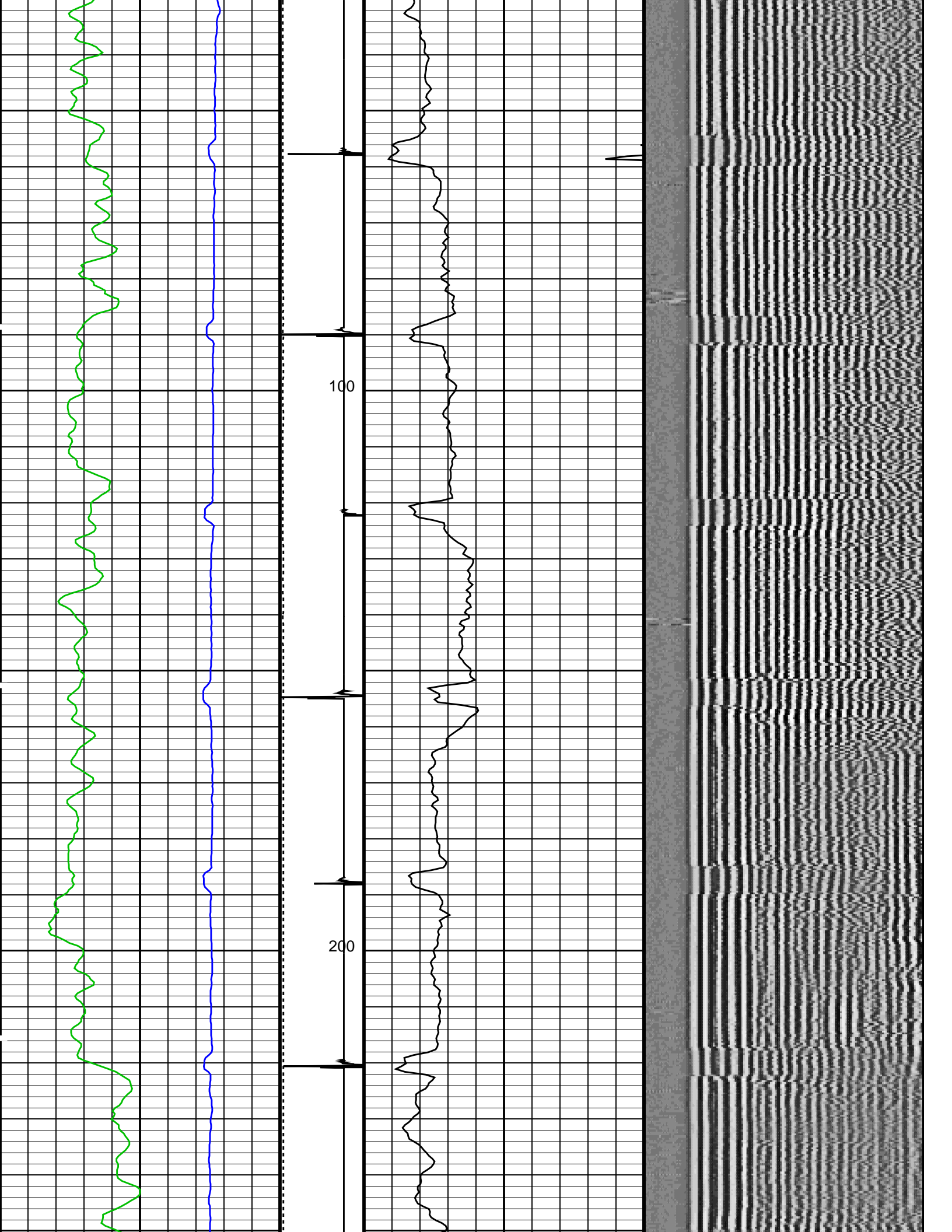
## OP System Version: 19C0-187

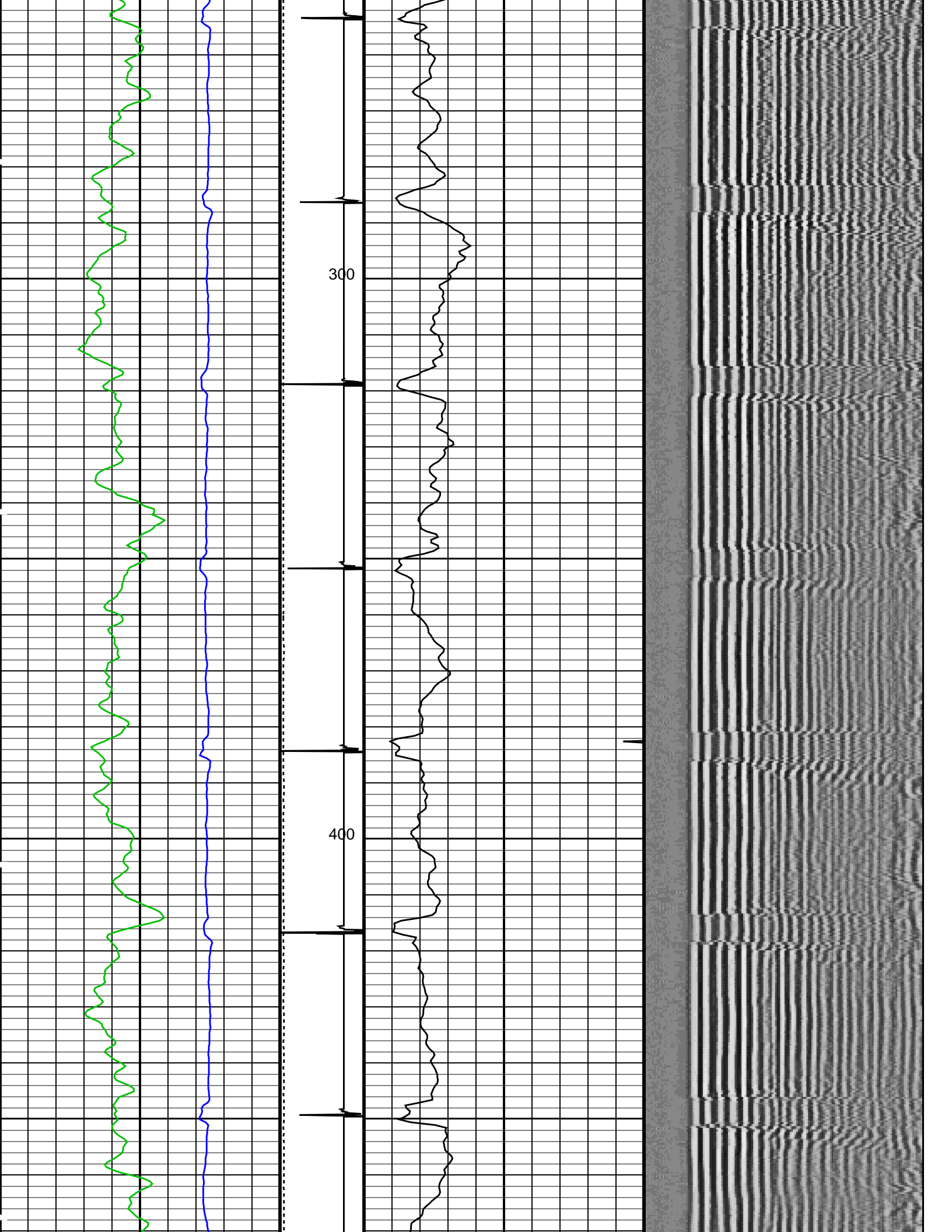
SCMT-CB SRPC-5095-H2-2011-OP19 PSPT 19C0-187

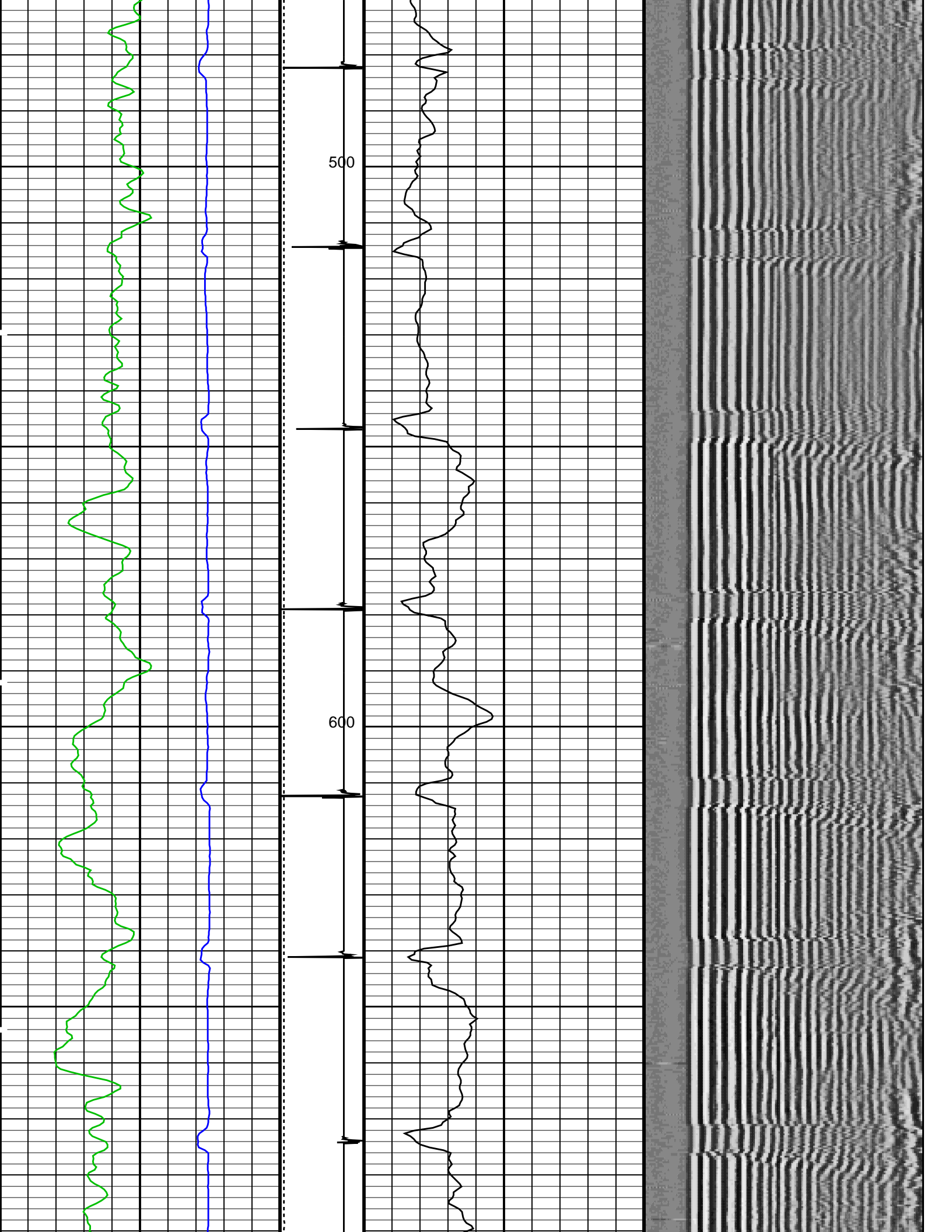
## PIP SUMMARY

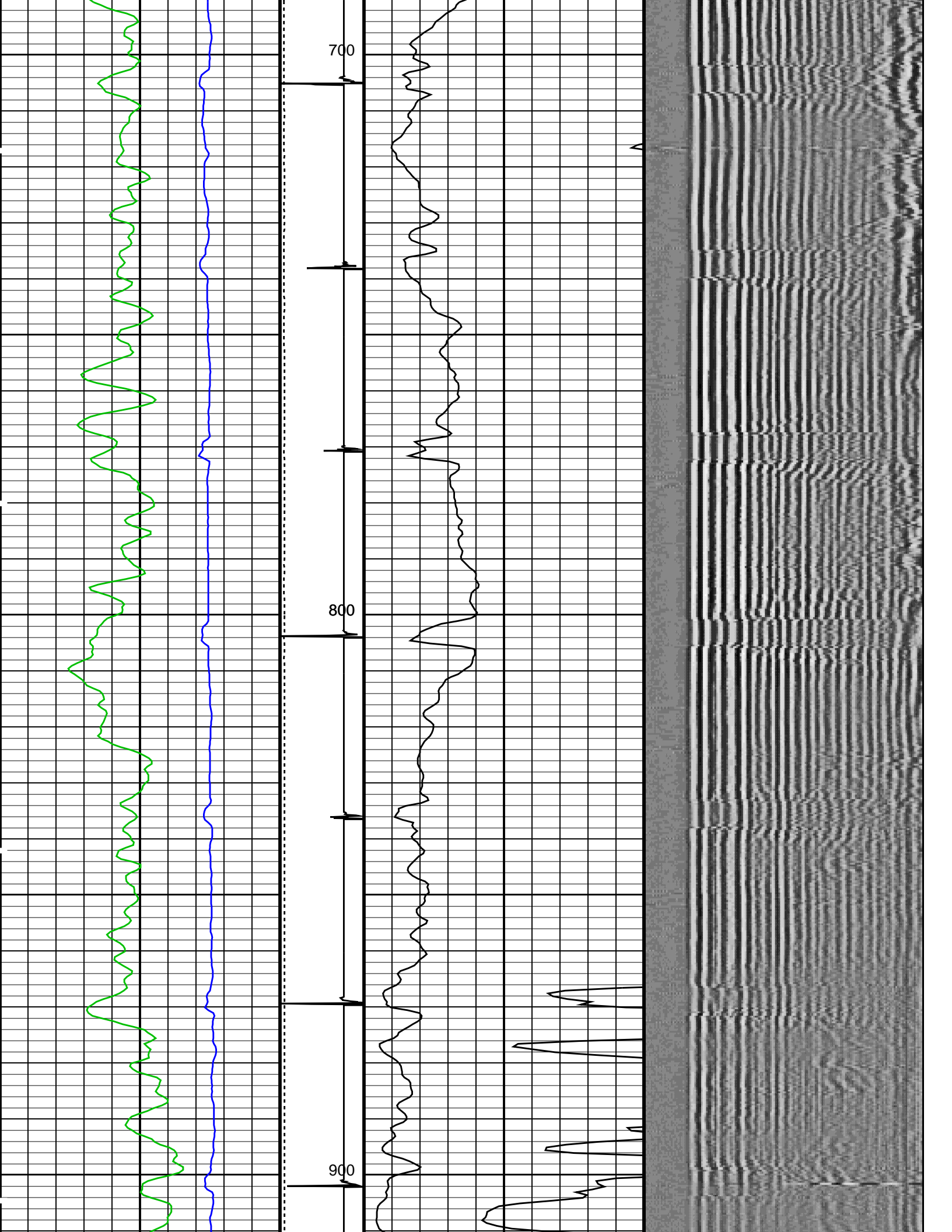
Time Mark Every 60 S



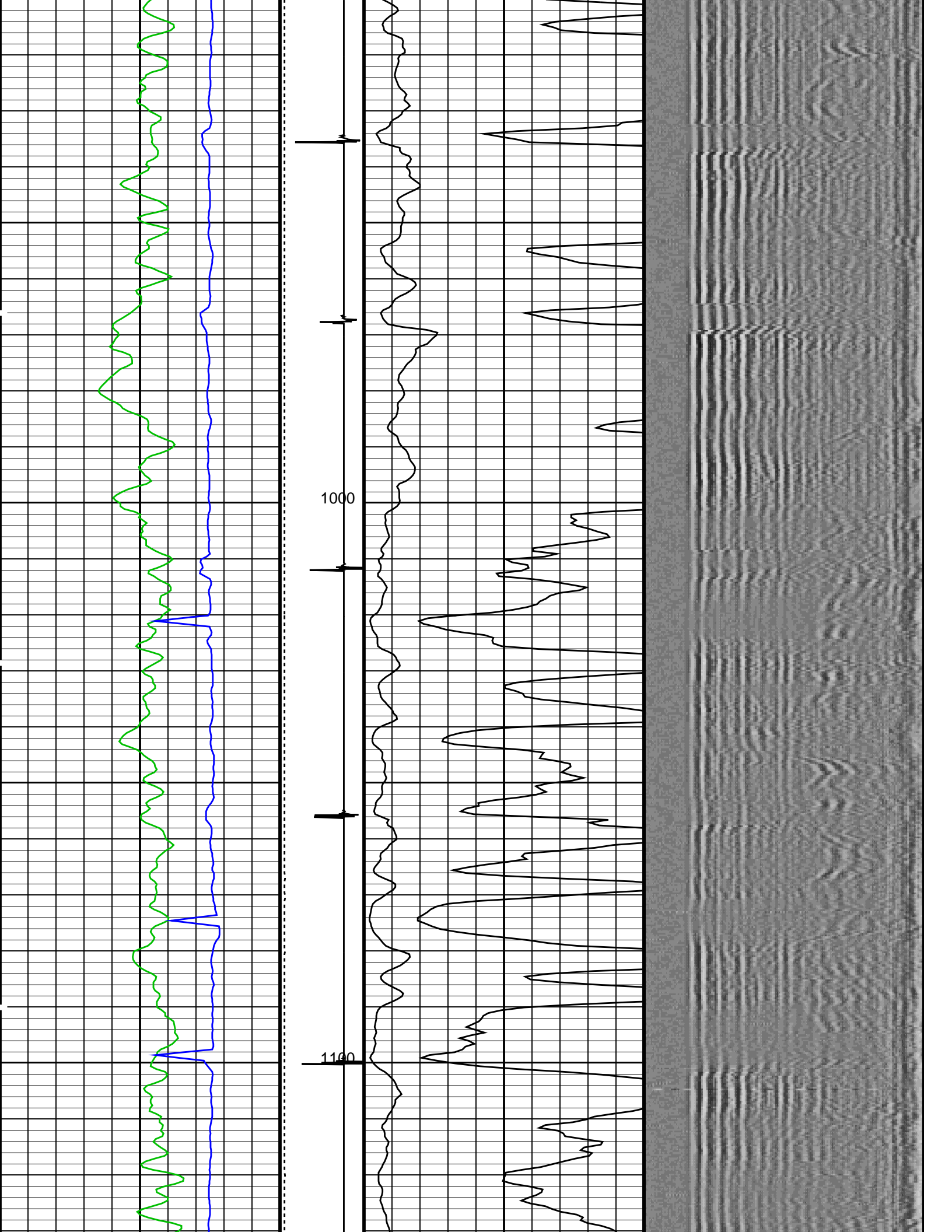


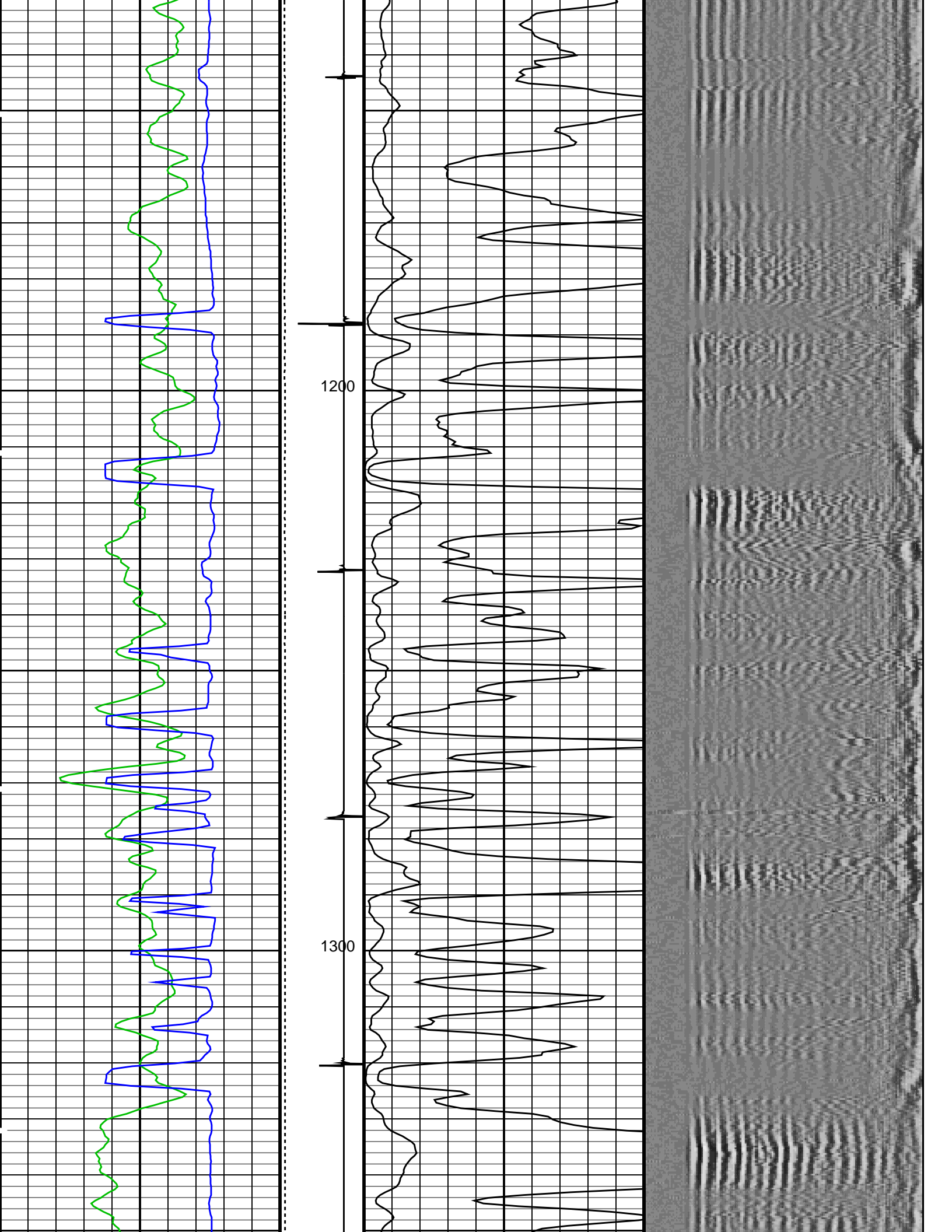




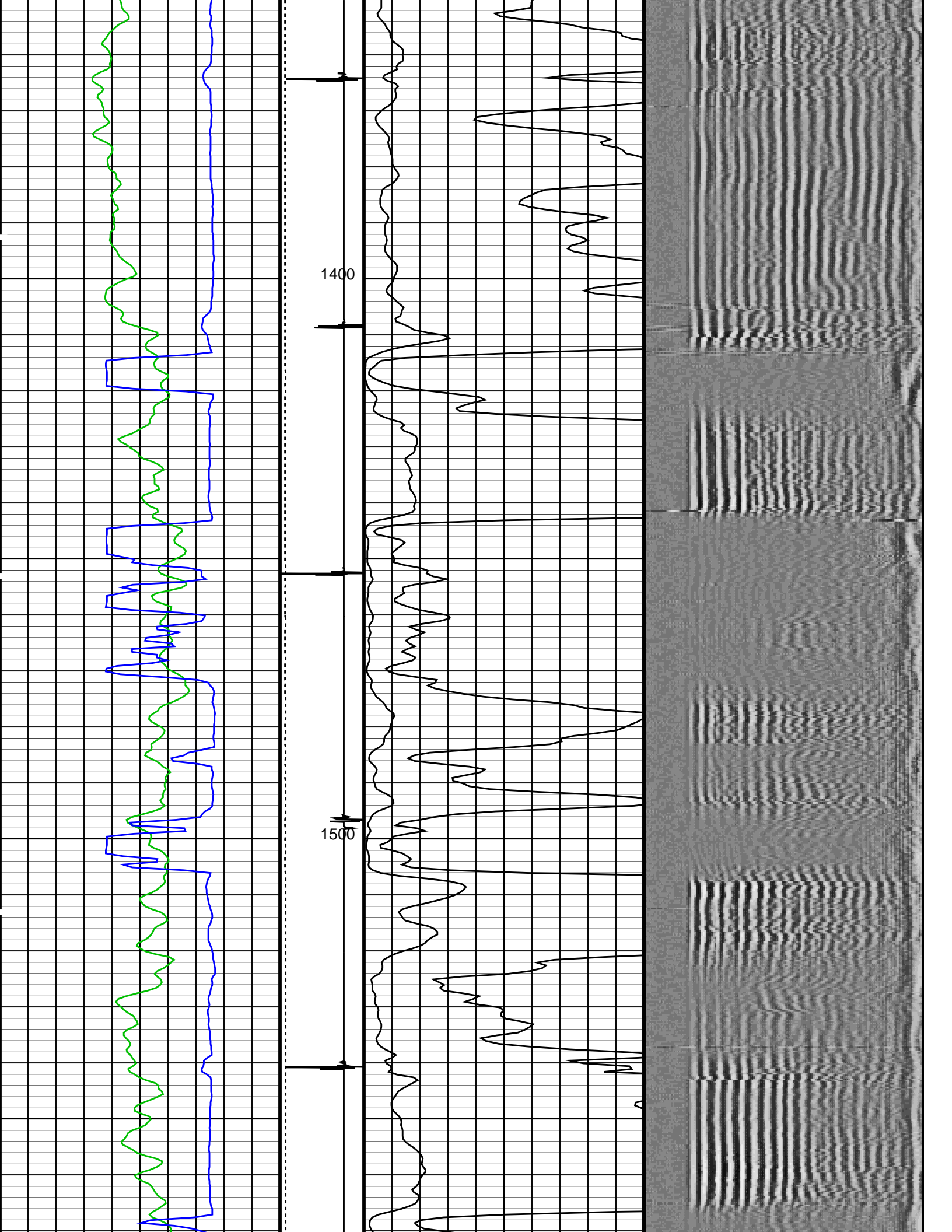


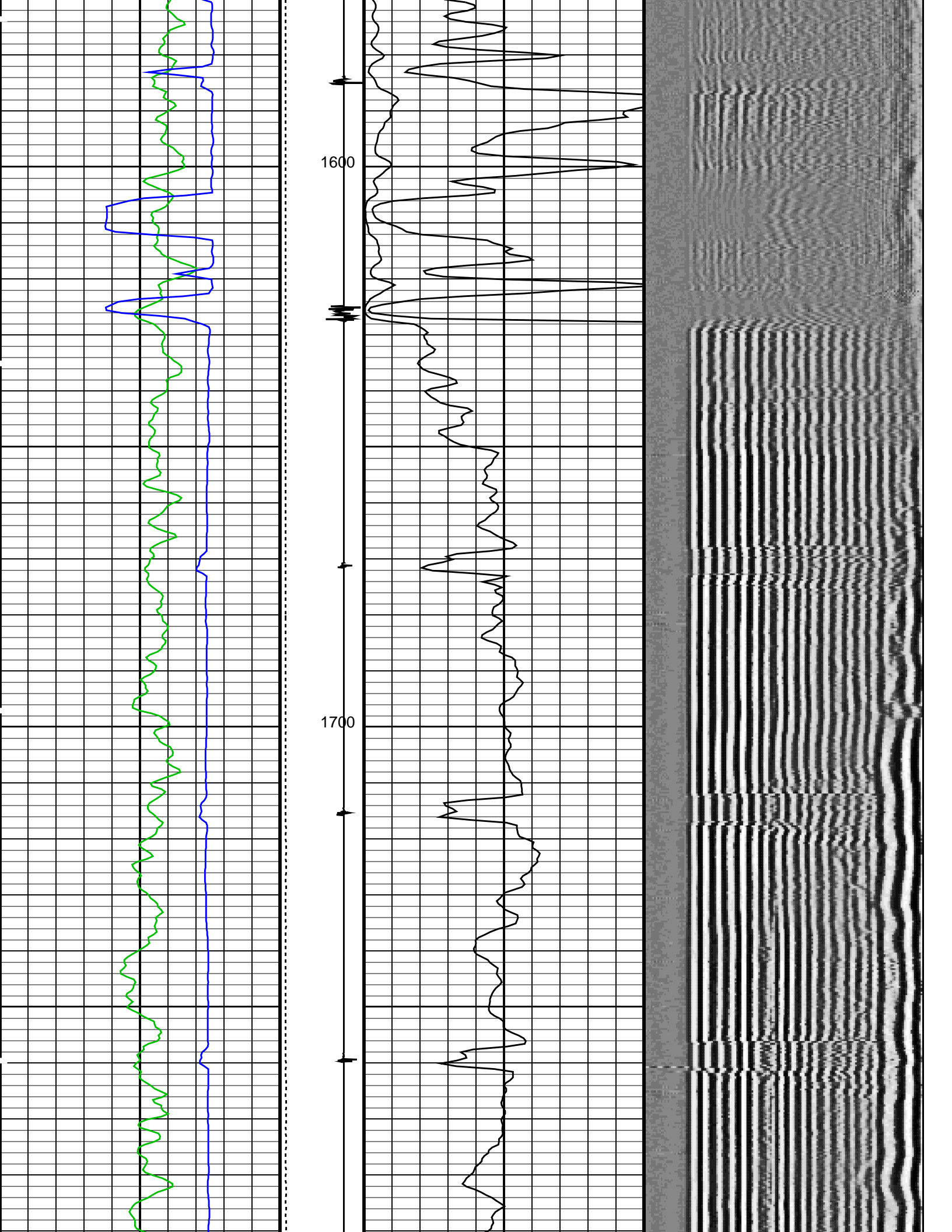


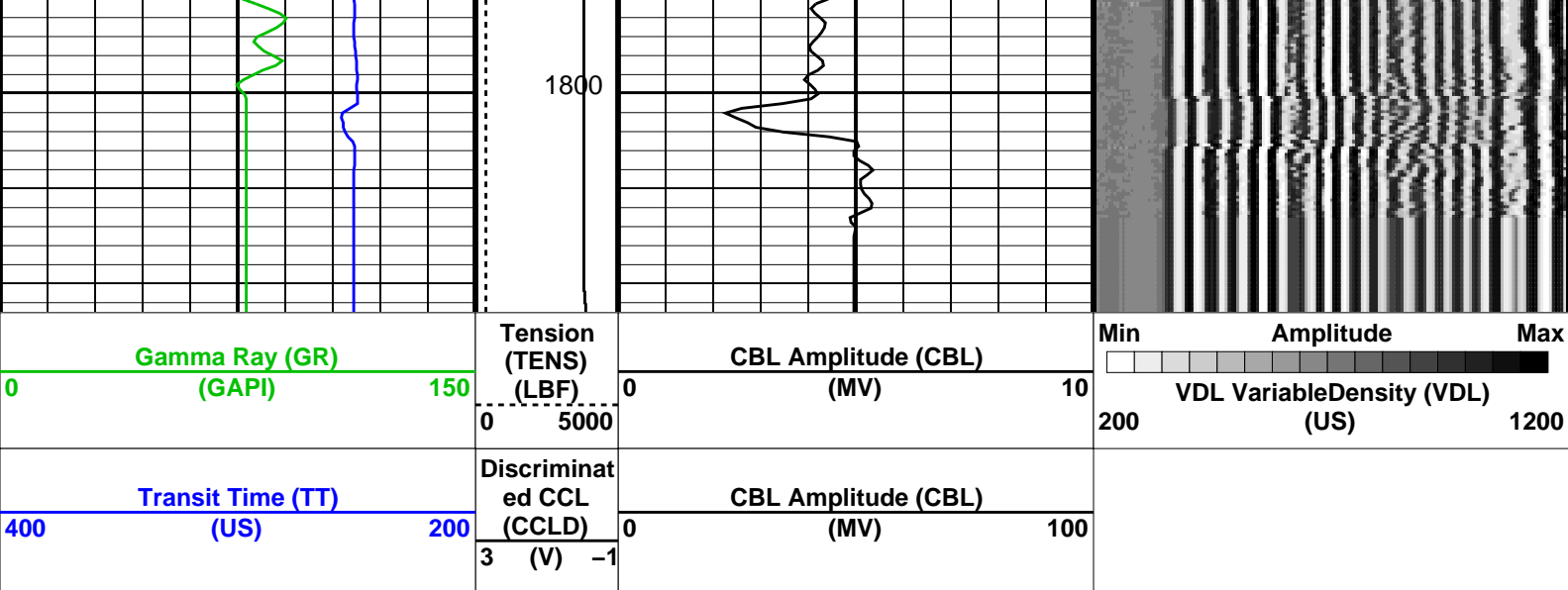












Time Mark Every 60 S

Format: CBL\_VDL Vertical Scale: 5" per 100' Graphics File Created: 25-Aug-2015 17:09

## OP System Version: 19C0-187

SCMT-CB SRPC-5095-H2-2011-OP19 PSPT 19C0-187

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


Sonde Serial Number	SCMS-CB 8284		
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	21-JUN-2013		
CBL Correction Factor	0.0743795	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.105721	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.132315		
MAP 3 Correction Factor	0.146735		
MAP 4 Correction Factor	0.109791		
MAP 5 Correction Factor	0.114089		
MAP 6 Correction Factor	0.110732		
MAP 7 Correction Factor	0.116601		
MAP 8 Correction Factor	0.0804110		

## 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	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV

CMCF	CBL Cement Type Compensation Factor	1	SCAN
CMT	SCMT Slow Channel Multiplexer Mode	LOG	LOG
CMTM	SCMT Operating Mode	VCC	VCC
CSCS	SCMT Slow Channel Index	0.255617	IN
CTHI	Casing Thickness	189	US/F
DTF	Delta-T Fluid	0	DB/F
FATT	Acoustic Attenuation due to Fluid	0.924277	
FCF	CBL Fluid Compensation Factor	1.55185	MV
GOBO	Good Bond	PEAK	
MAPD	SCMT MAP Peak Detection Mode	167.559	US
MAPG	SCMT MAP Peak Detection T0 Delay and Noise Gate	30	MV
MAPT	SCMT MAP Fixed Threshold Level	16.5449	DB/F
MATT	Maximum Attenuation	1	
MCCF	MAP Cement Type Compensation Factor	1.25	FT
MCI	Minimum Cemented Interval for Isolation	4.32284	MV
MMSA	MAP Minimum Sonic Amplitude	0.579149	MV
MSA	Minimum Sonic Amplitude	OFF	
PEDE	Peak Detection On/Off Switch in Playback	5	
VDLG	VDL Manual Gain	6.8	MRAY
ZCMT	Acoustic Impedance of Cement		
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	-3.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

Input DLIS Files						
DEFAULT	SCMT_PSP_030LUP	FN:29	PRODUCER	25-Aug-2015 16:32	1826.0 FT	31.0 FT
Output DLIS Files						
DEFAULT	SCMT_PSP_031PUP	FN:30	PRODUCER	25-Aug-2015 17:09		

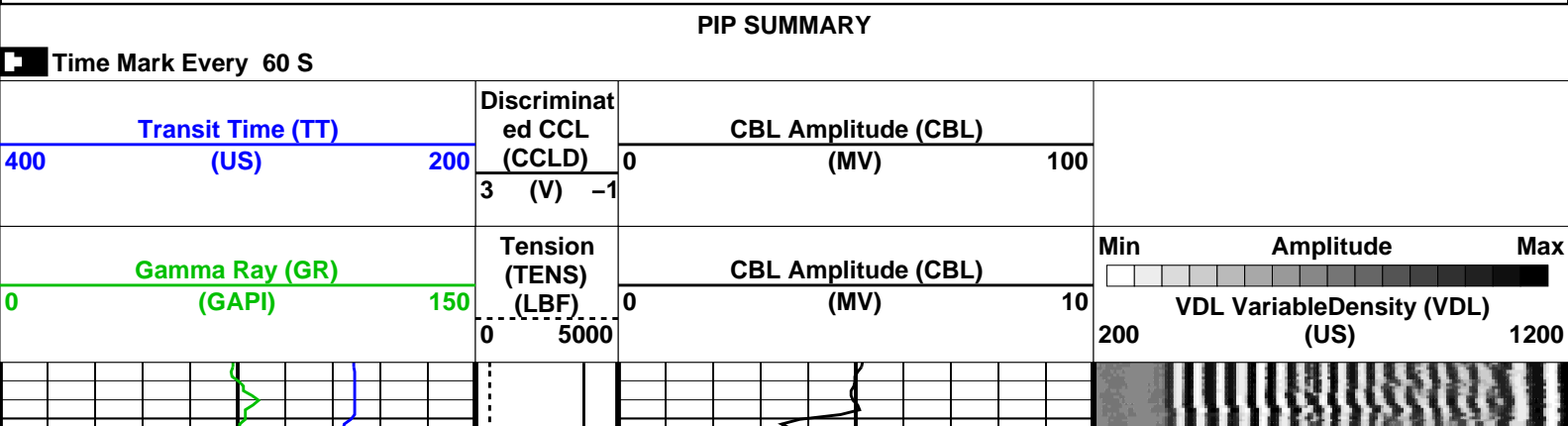


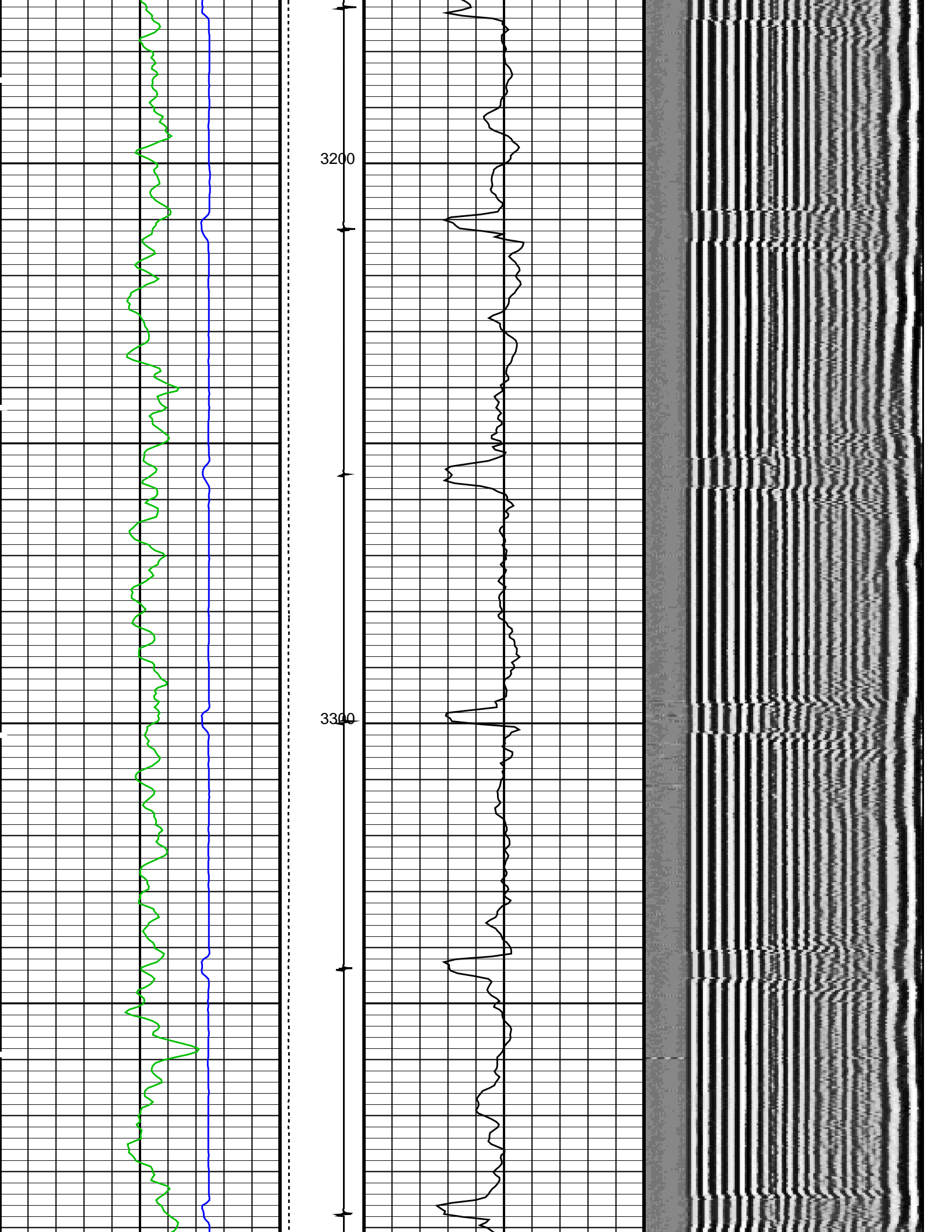
MAIN PASS

0 SURFACE PSI

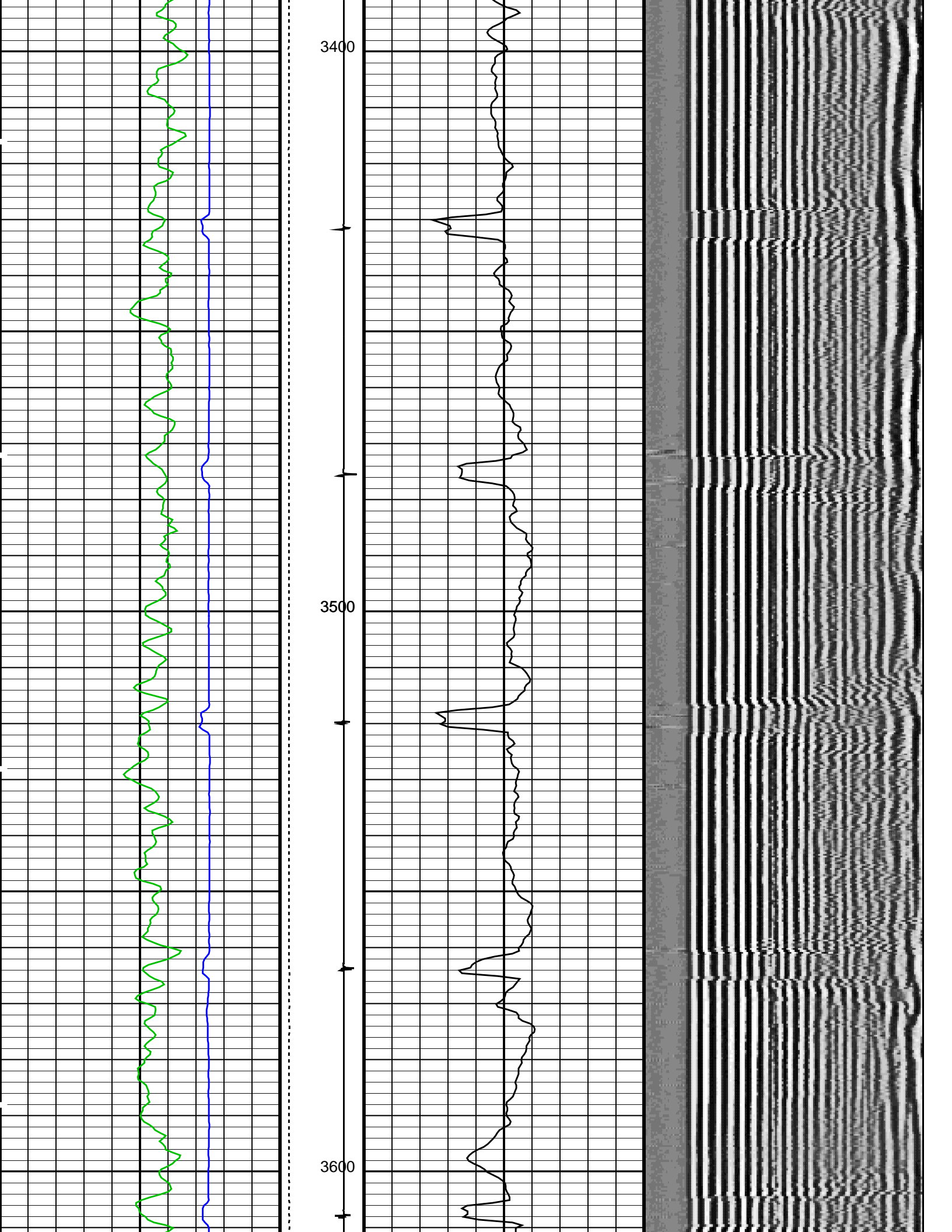
MAXIS Field Log

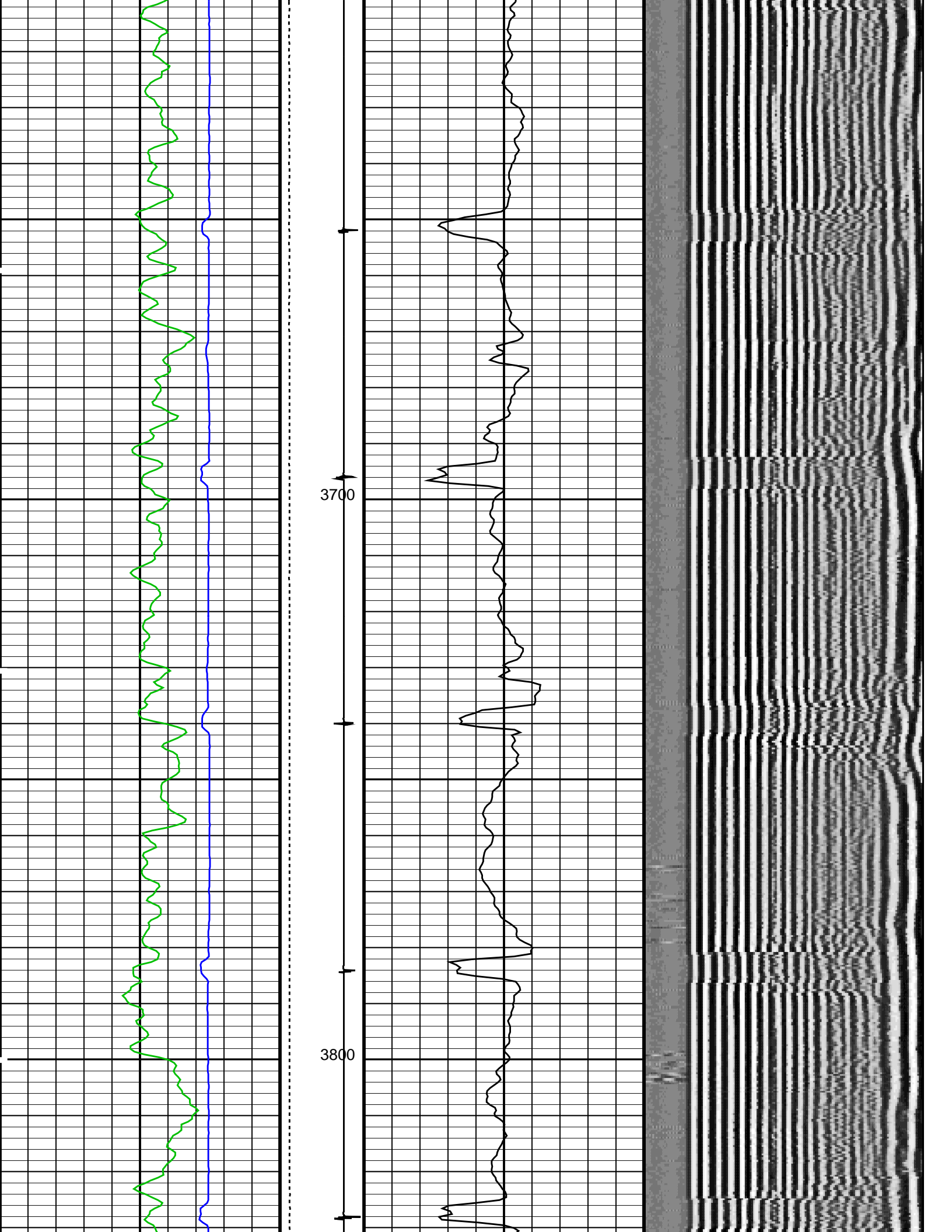
Company: PetroPro Engineering, Inc					Well: Winn 2	
Output DLIS Files						
DEFAULT	SCMT_PSP_029LUP	FN:28	PRODUCER	25-Aug-2015 15:18		
OP System Version: 19C0-187						
SCMT-CB	SRPC-5095-H2-2011-OP19	PSPT	19C0-187			

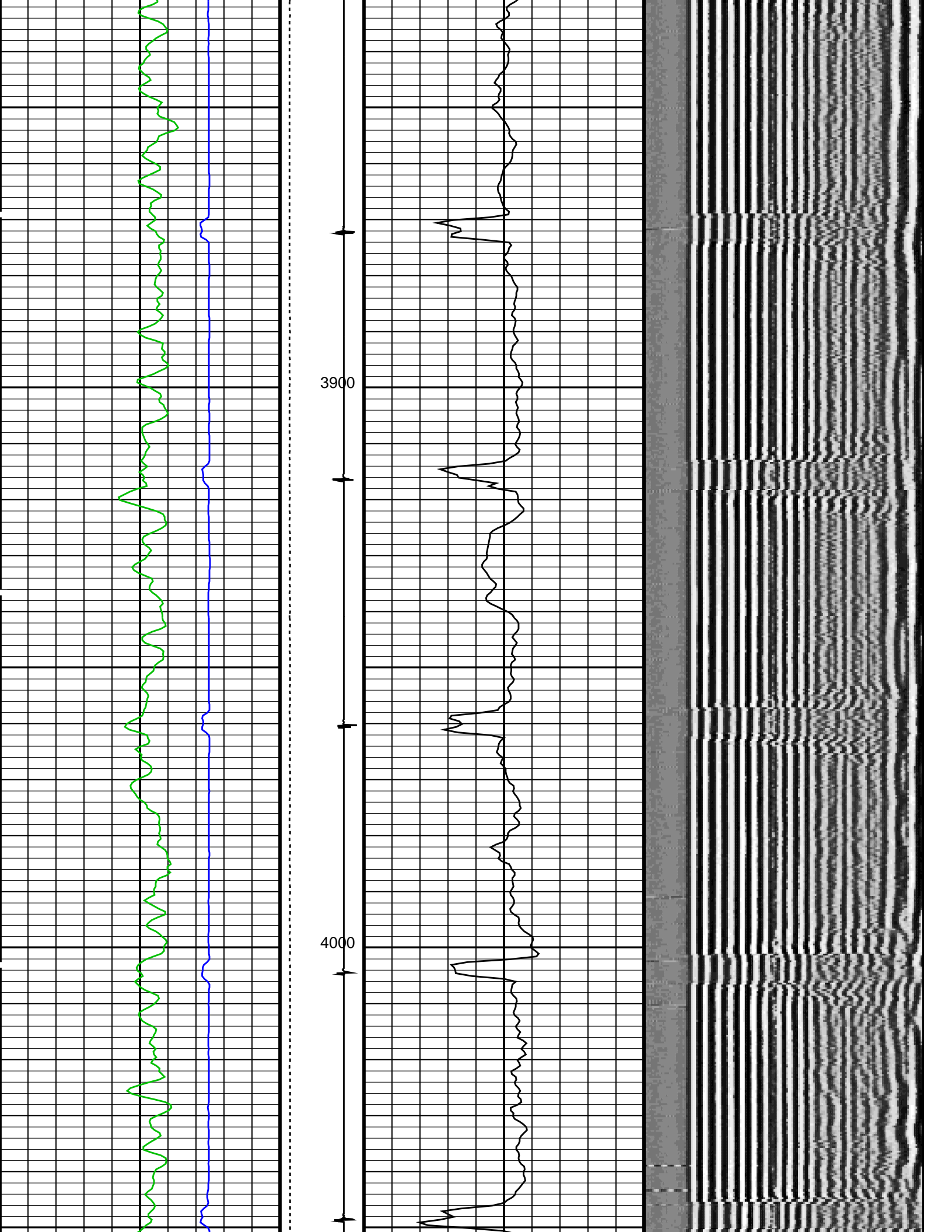




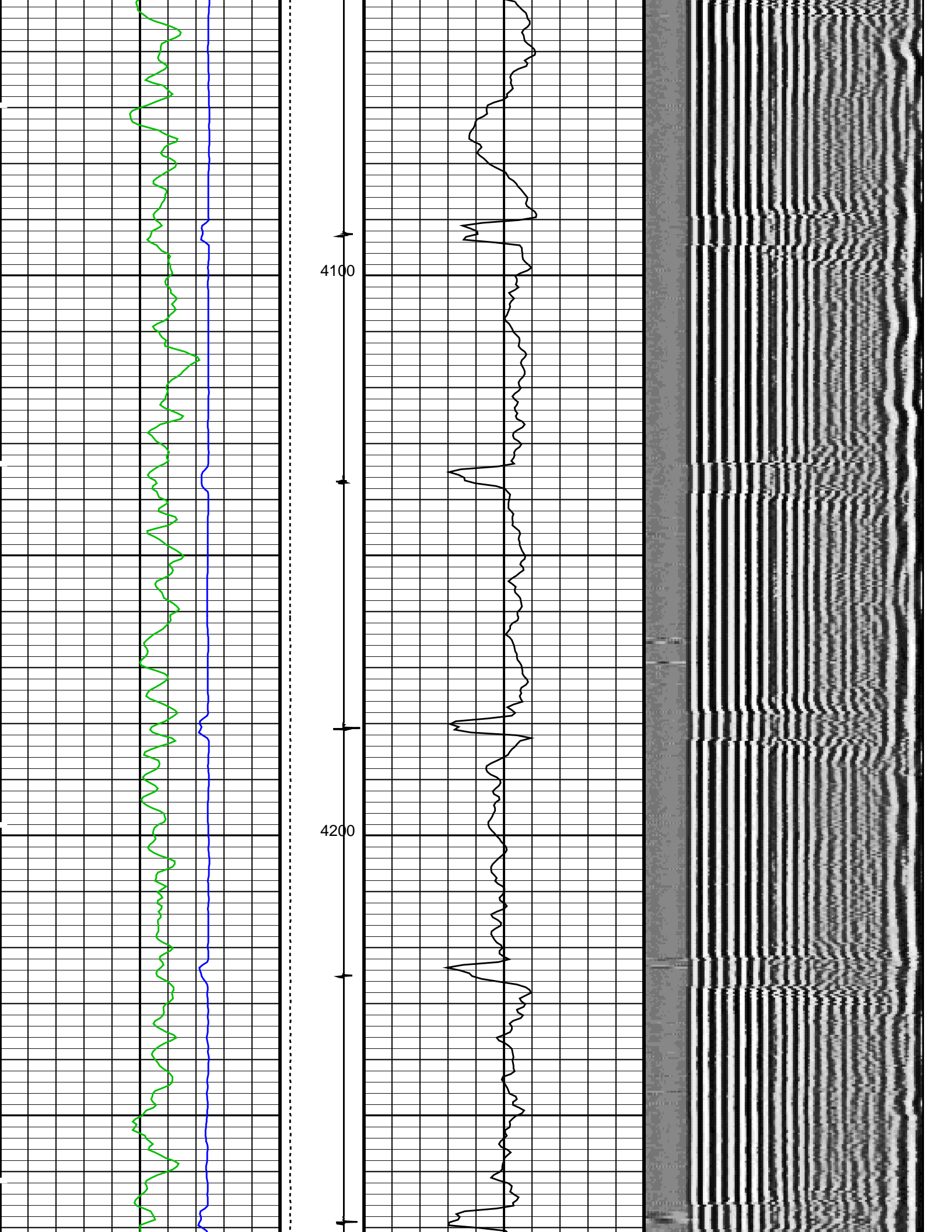


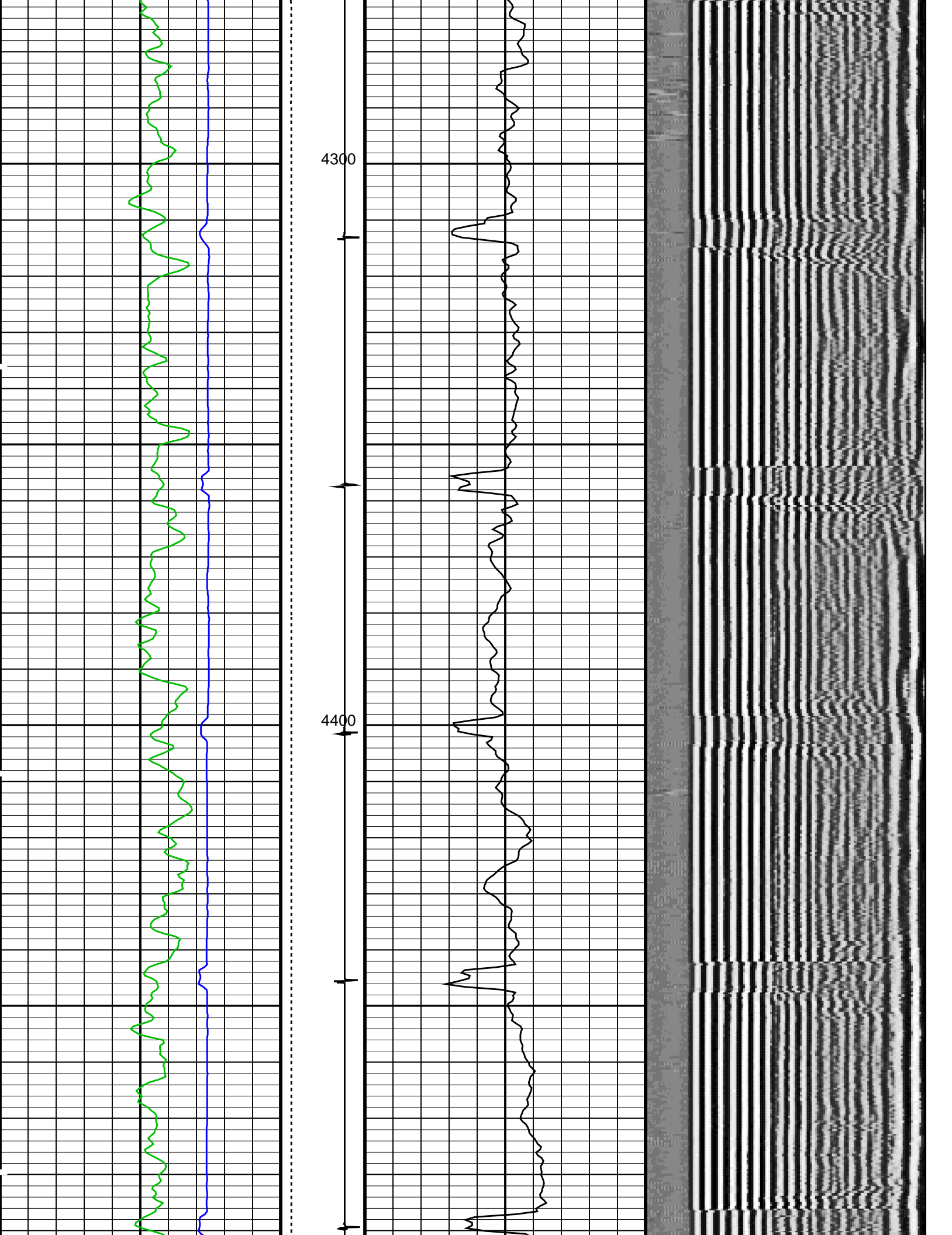


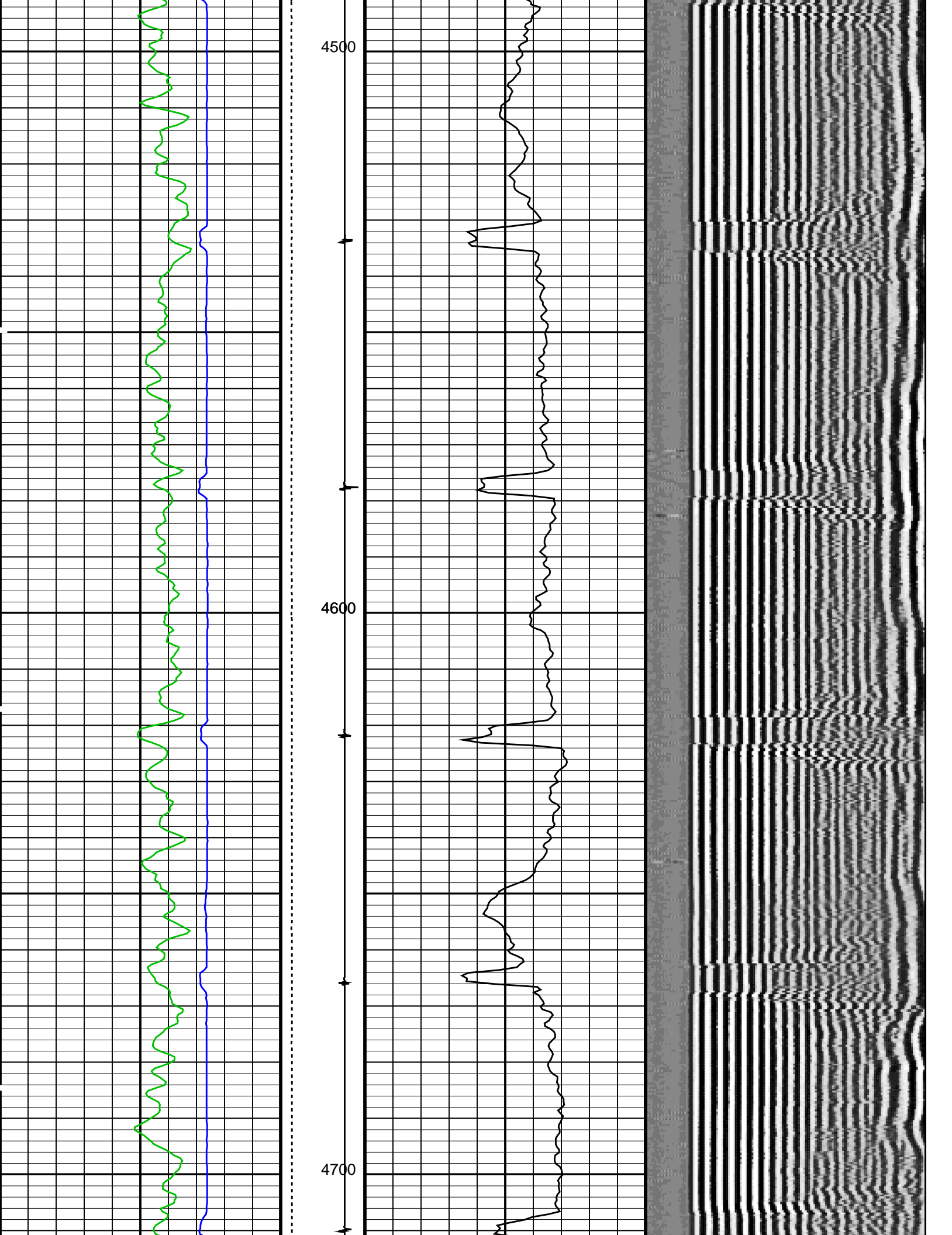






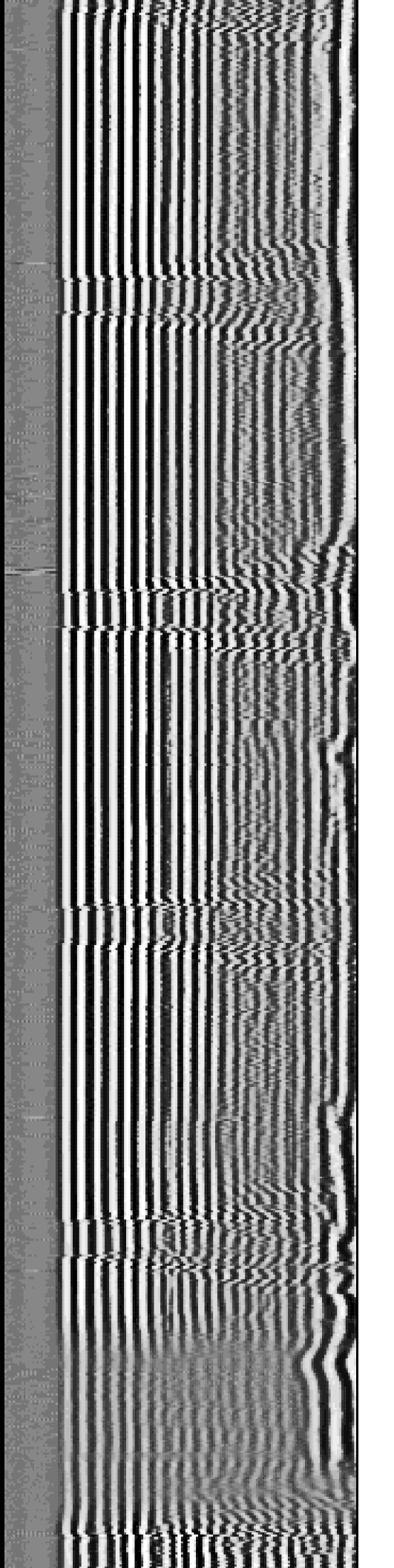
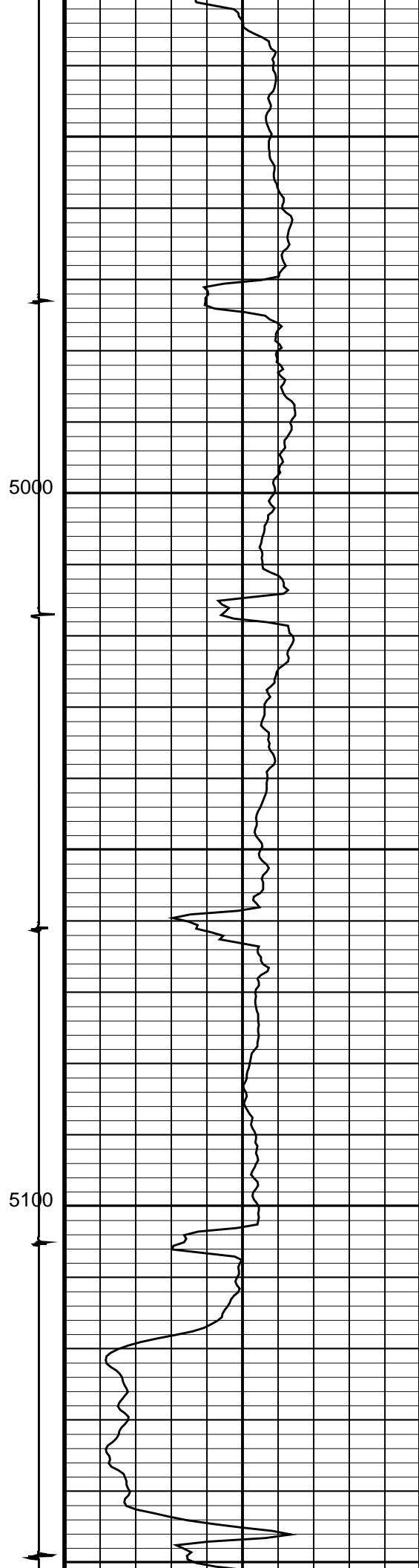
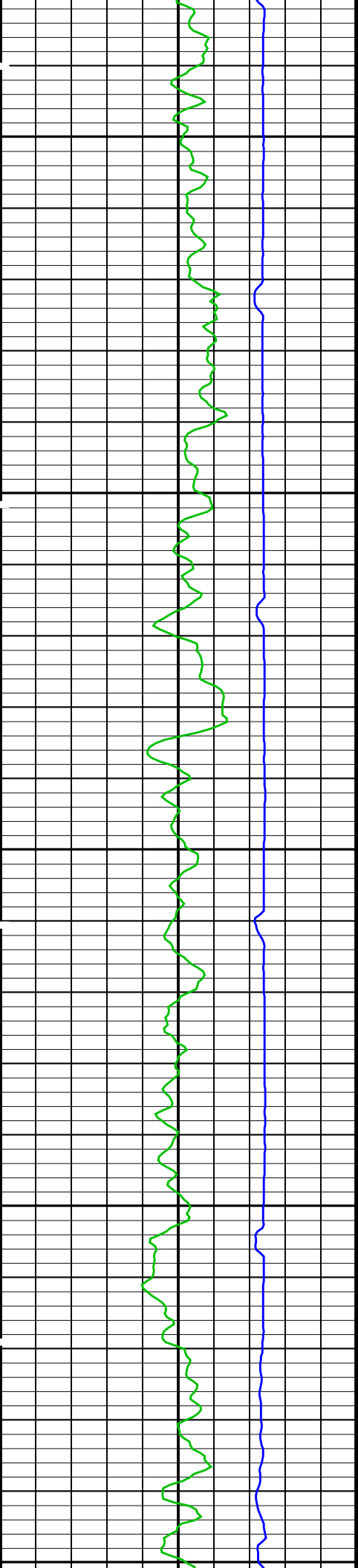


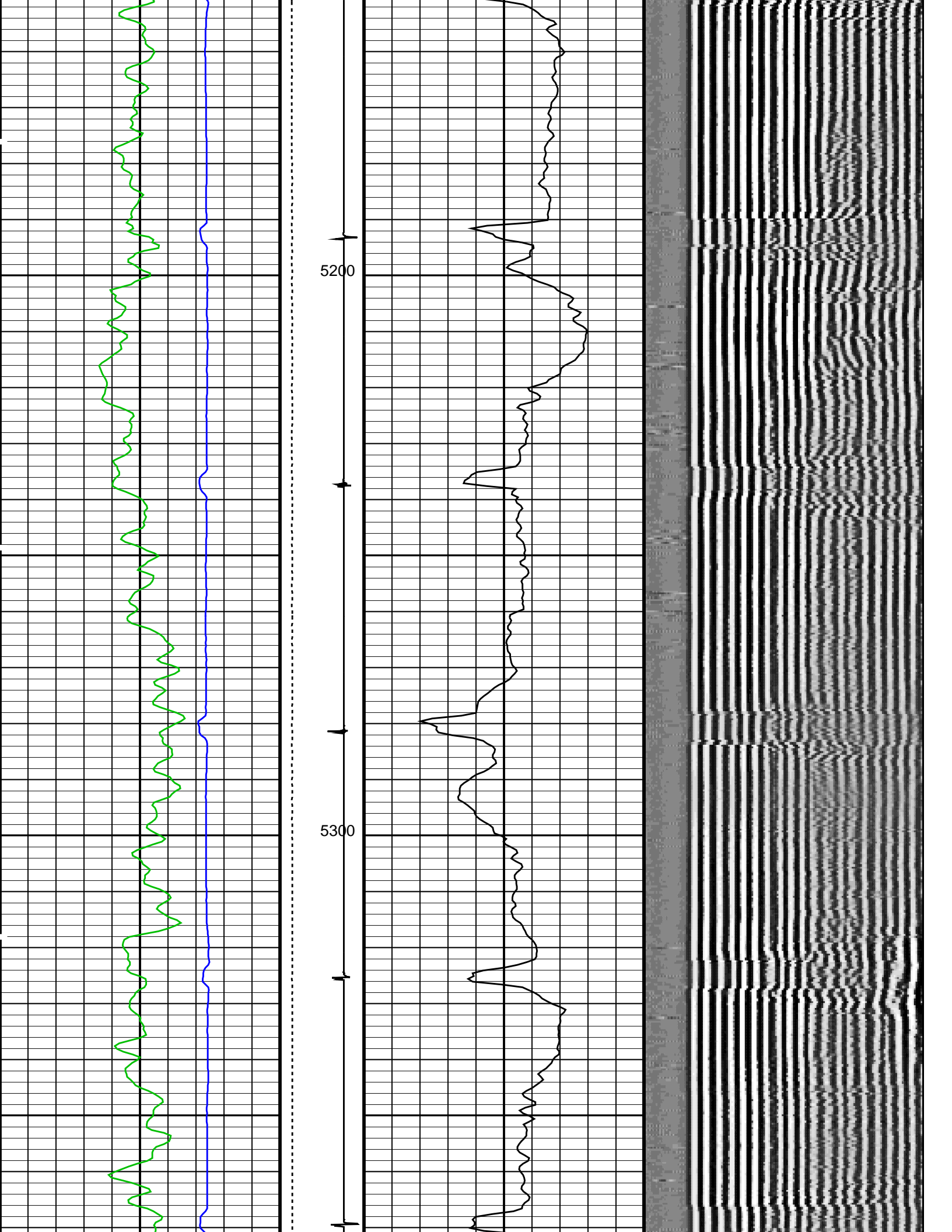


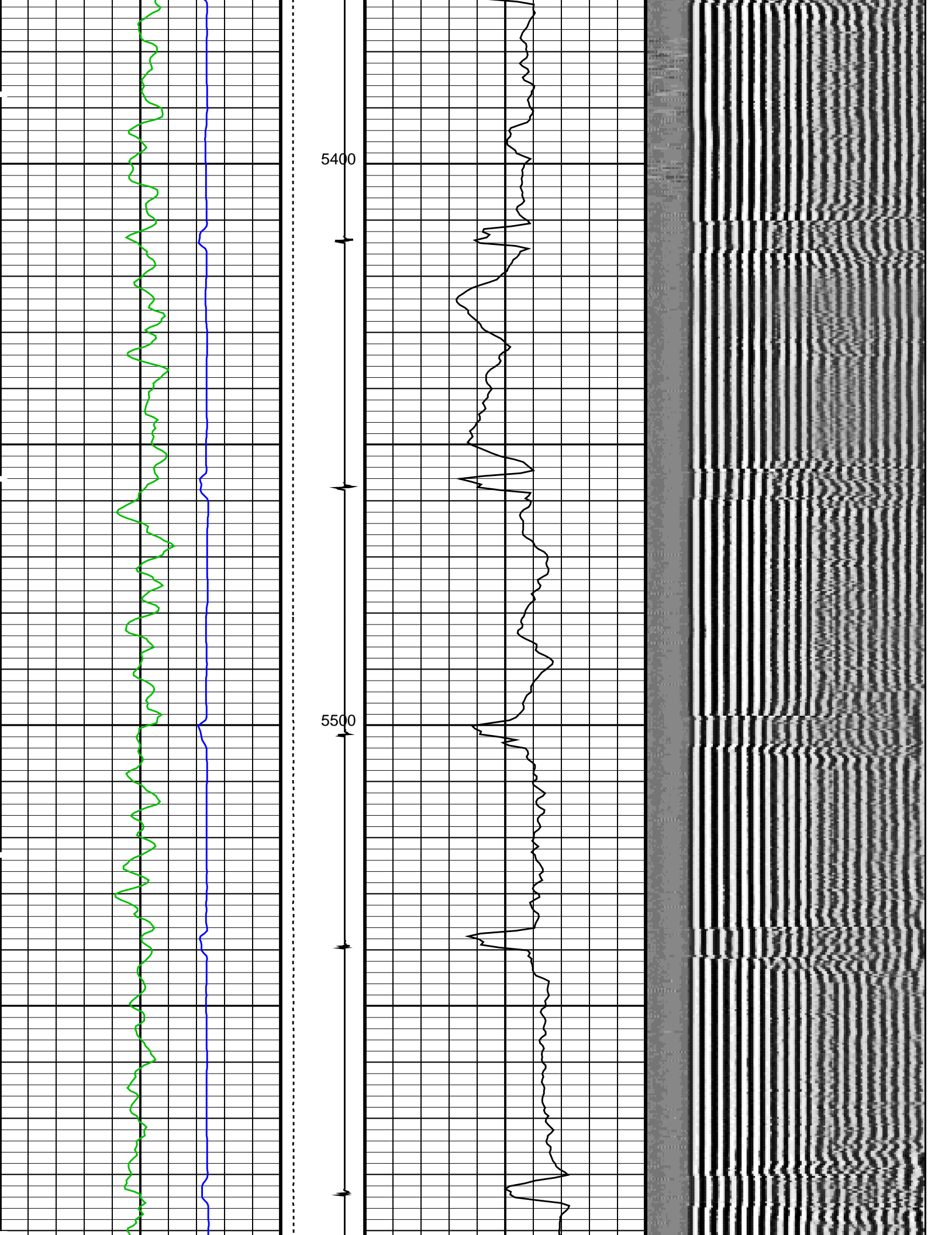


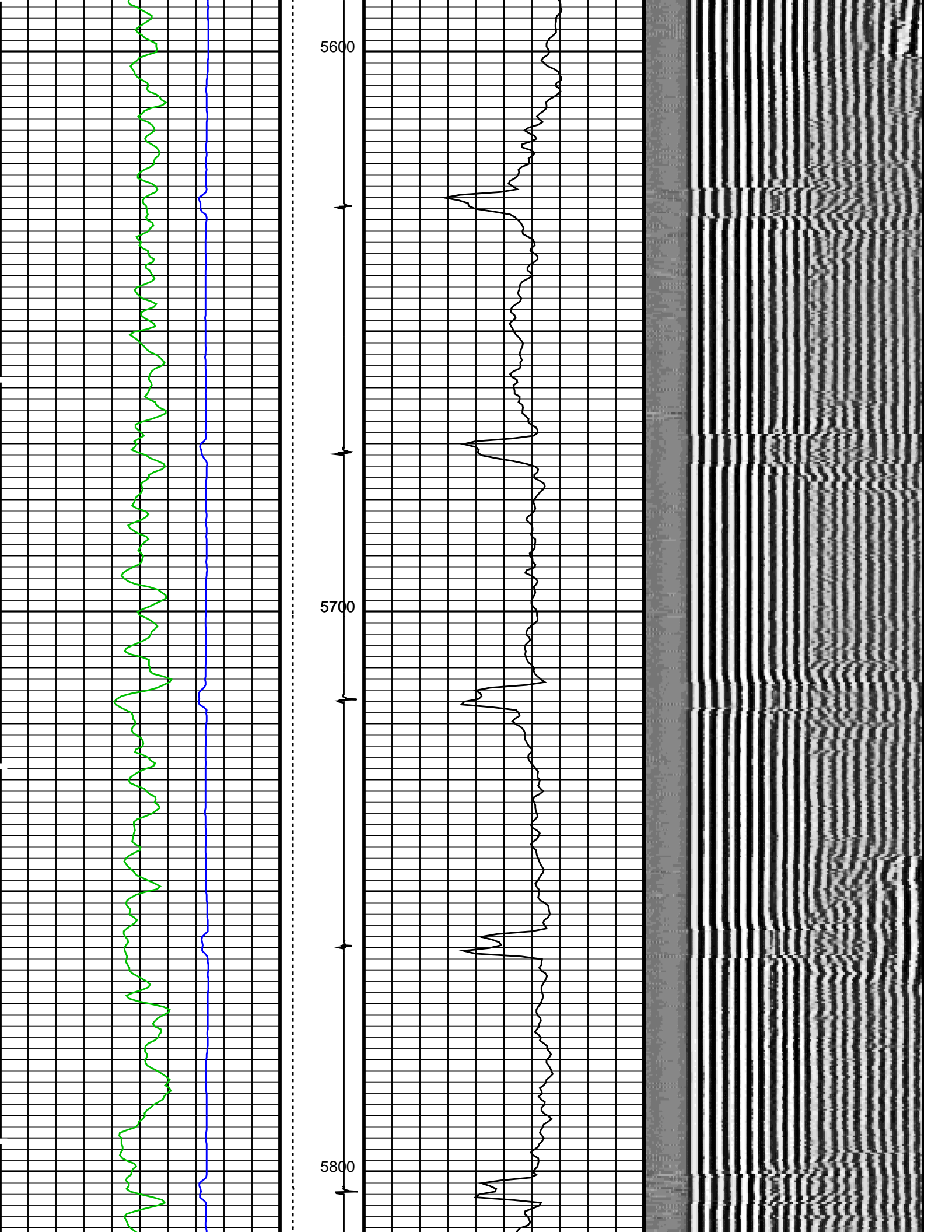




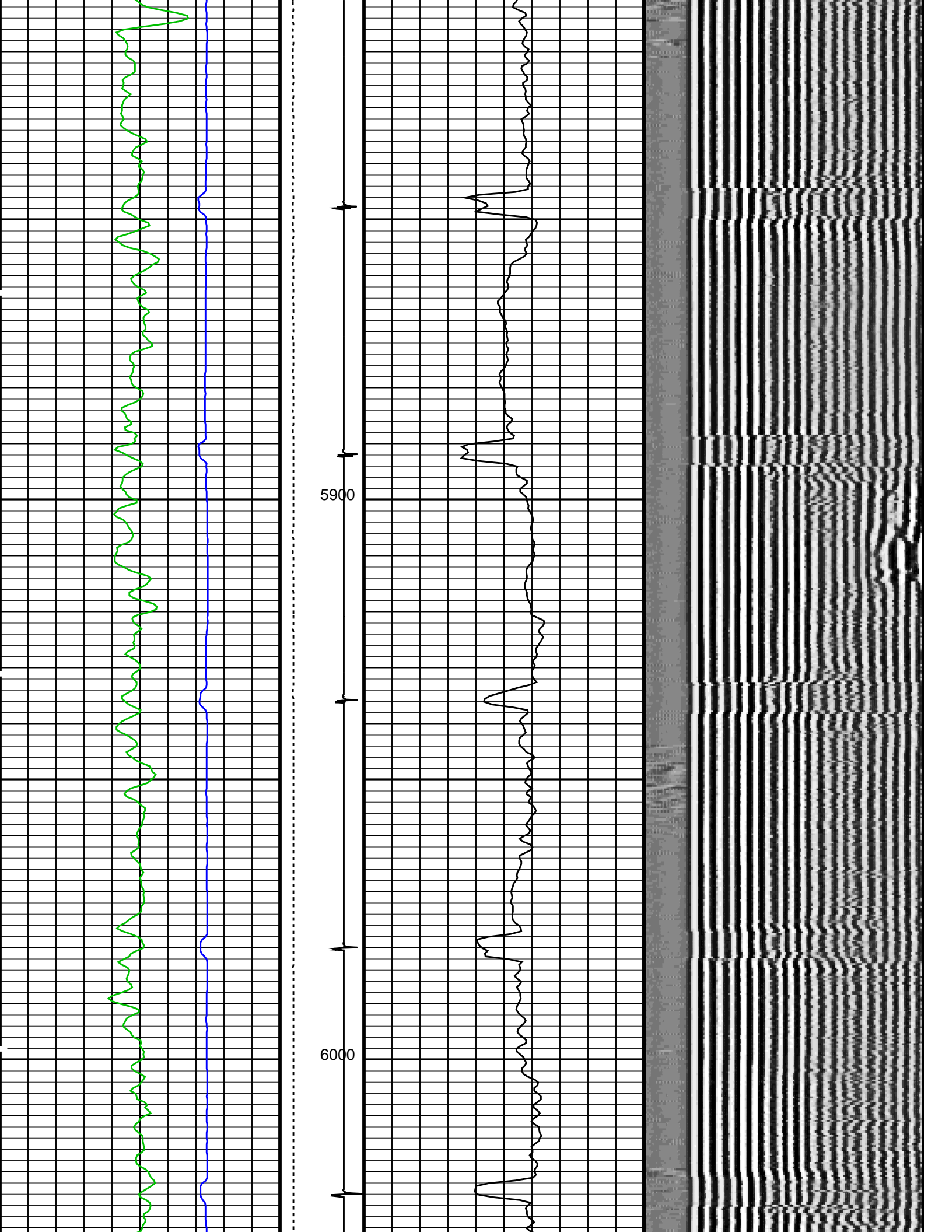


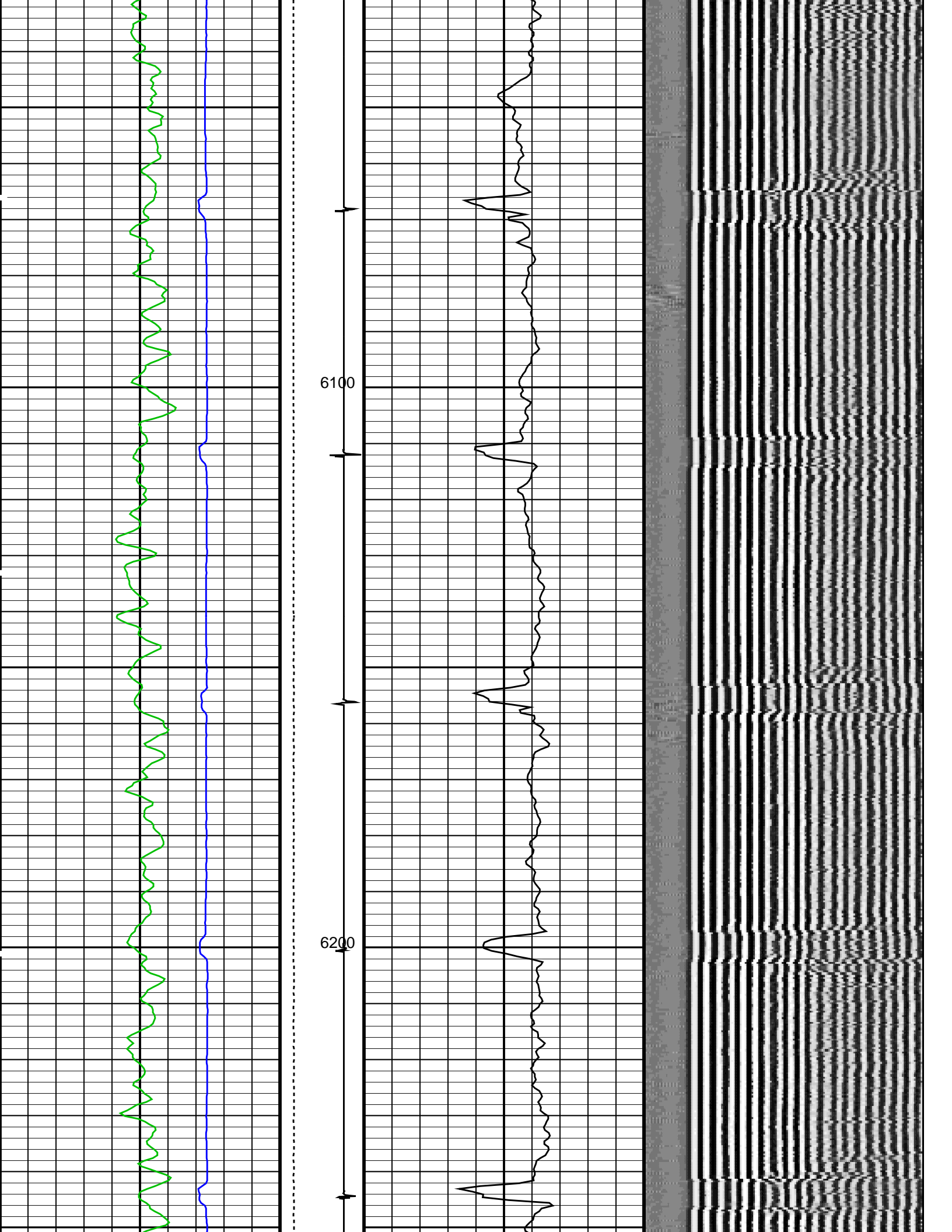


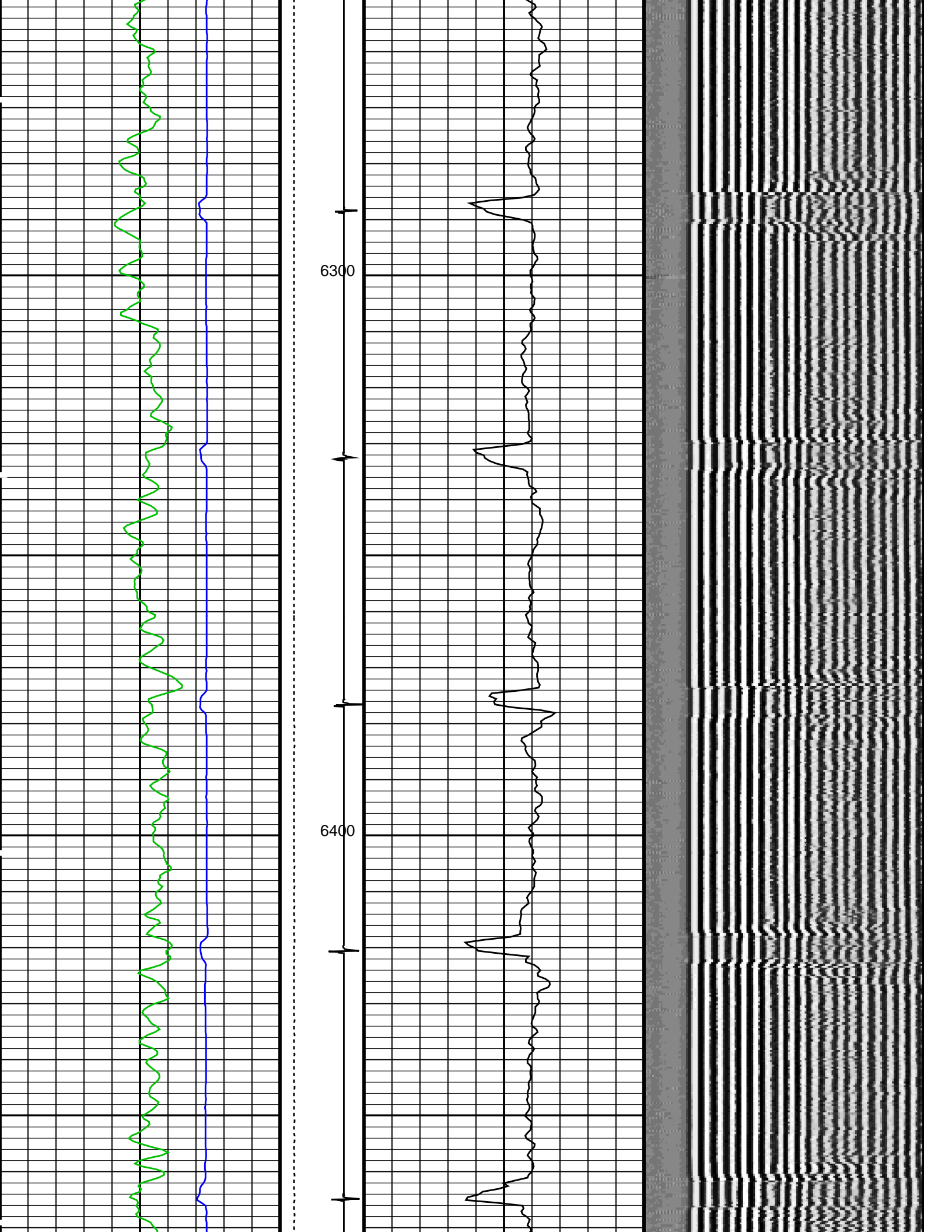


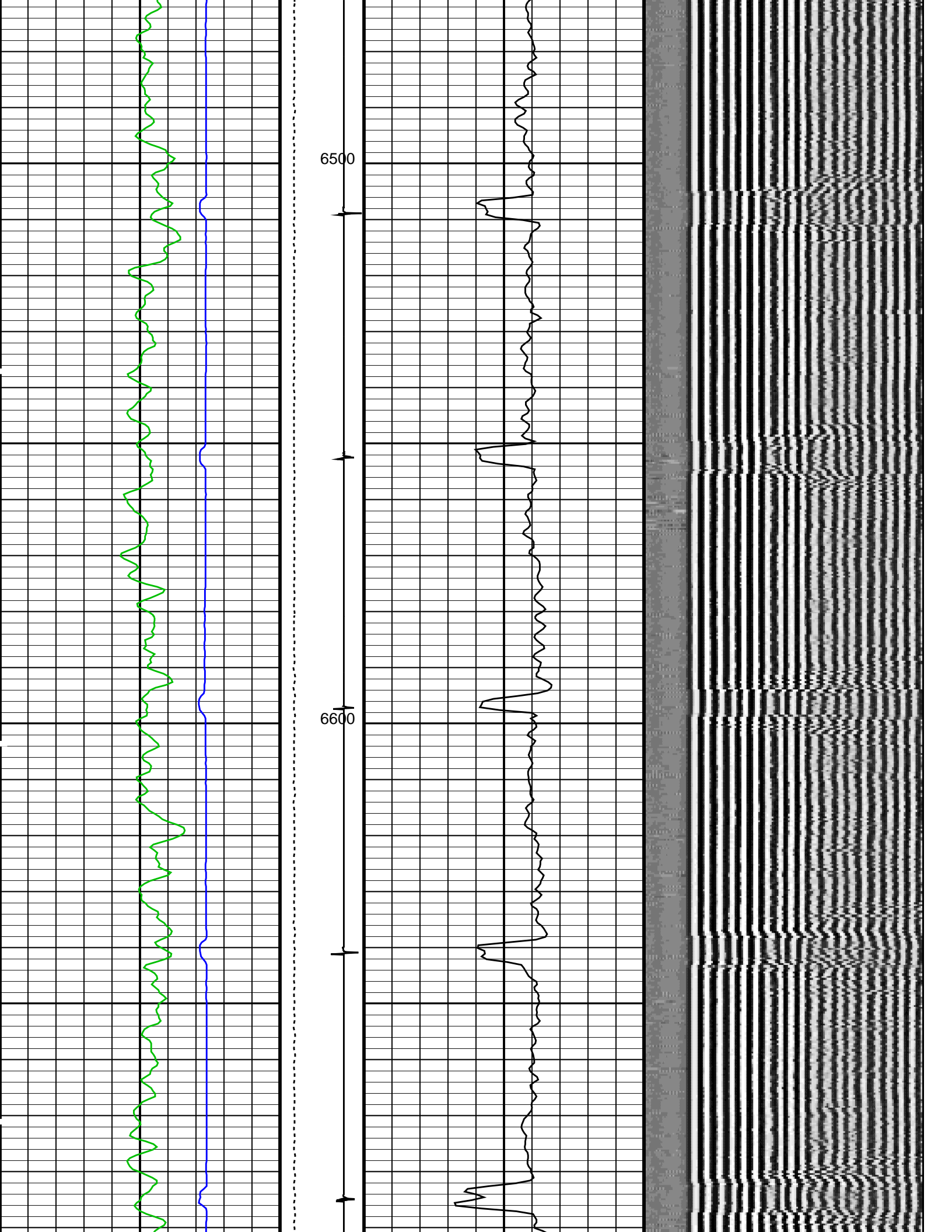




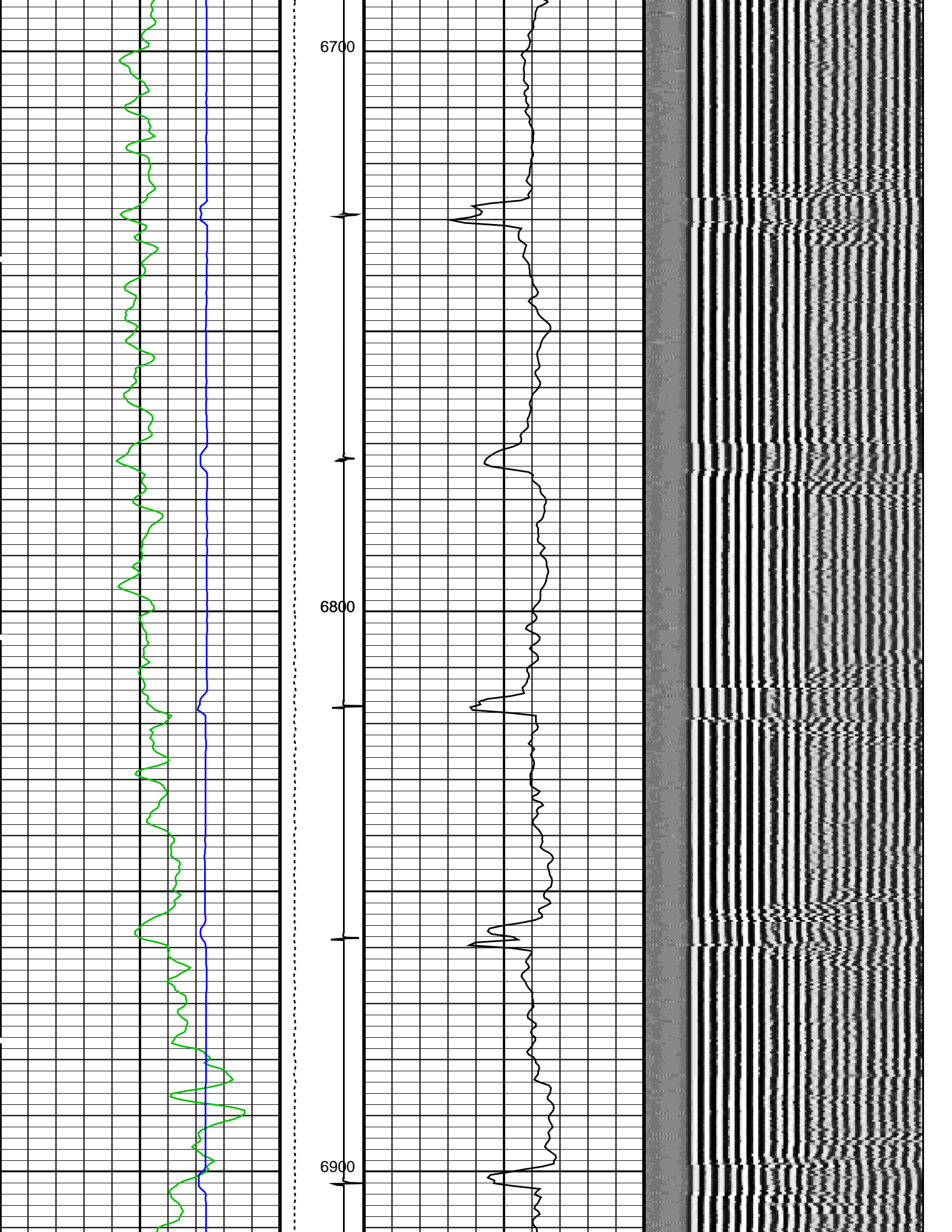


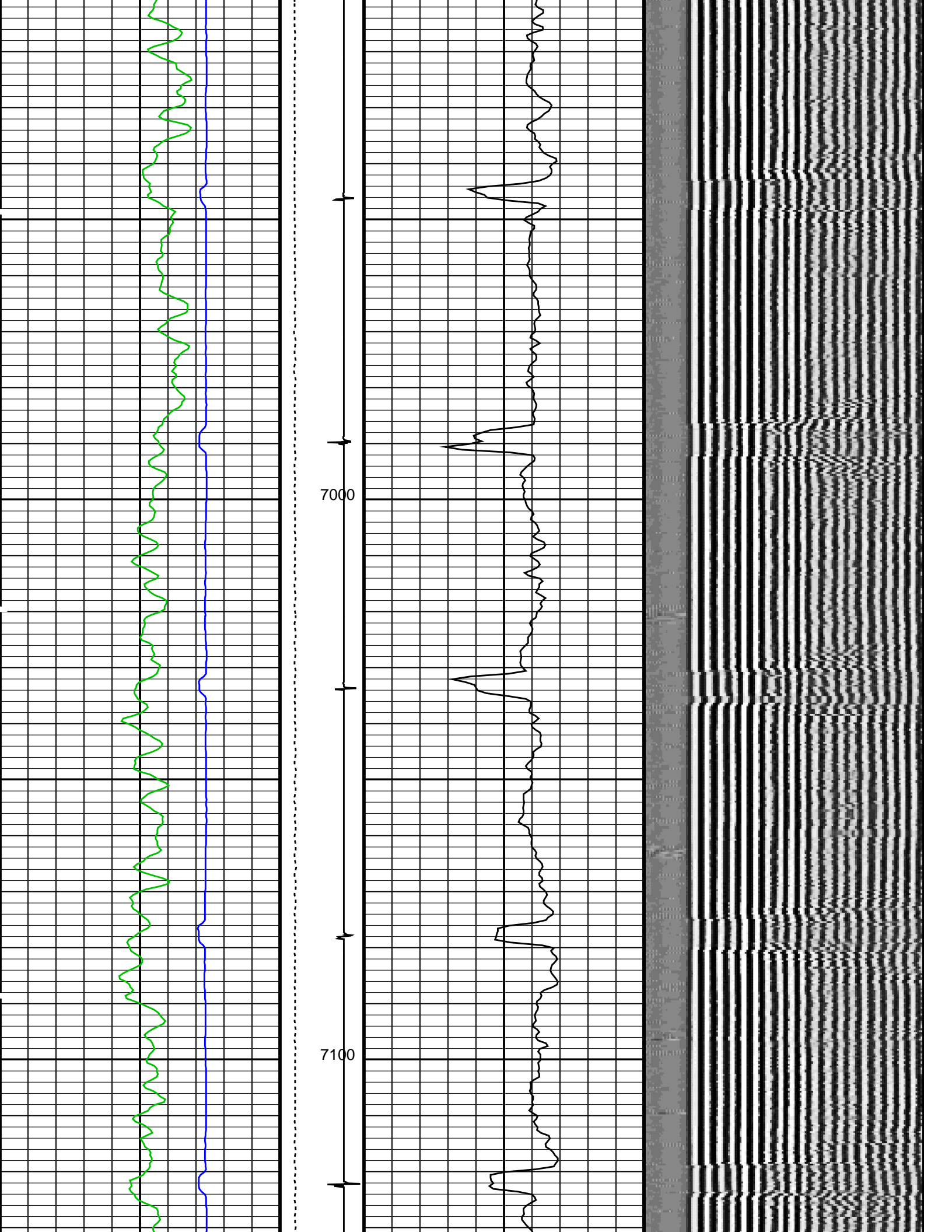


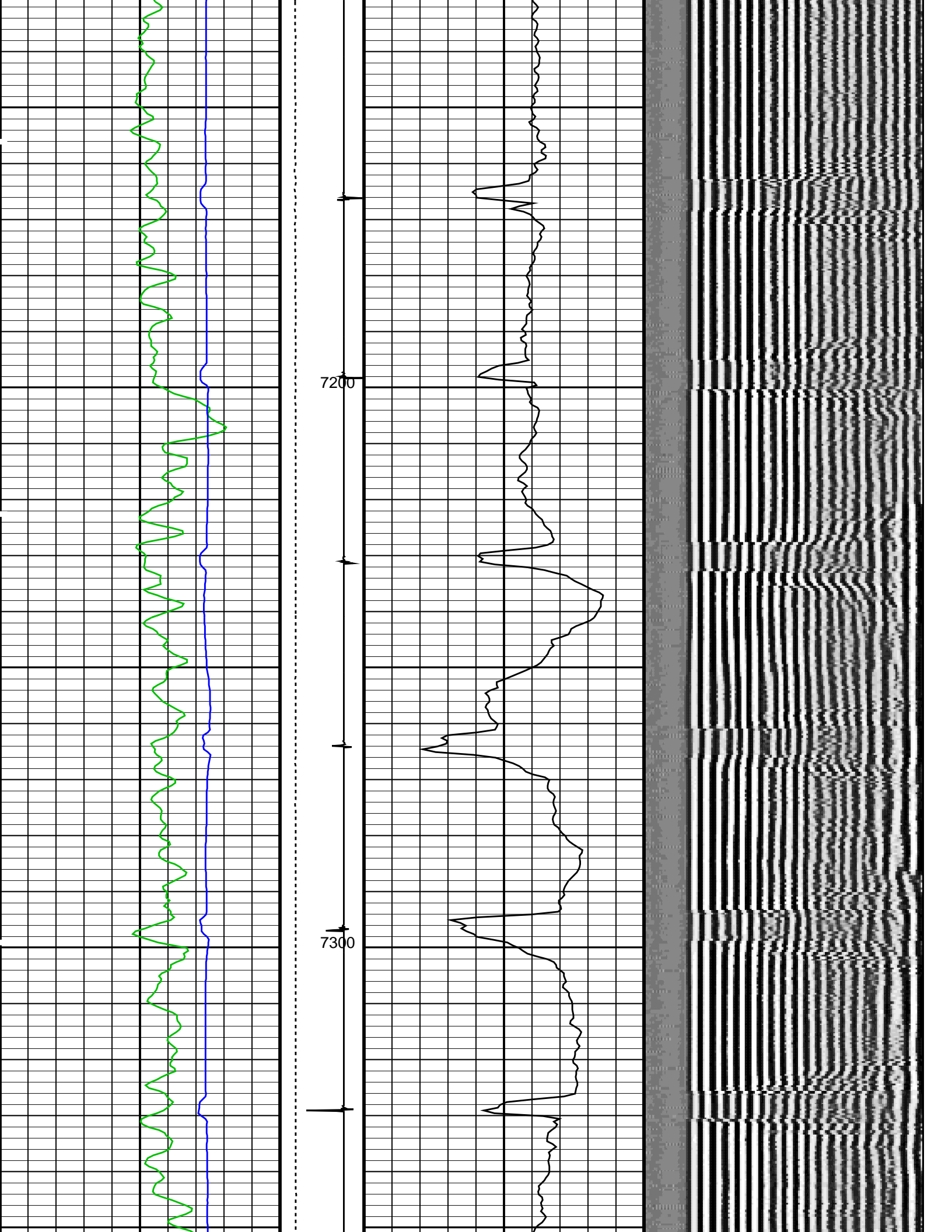


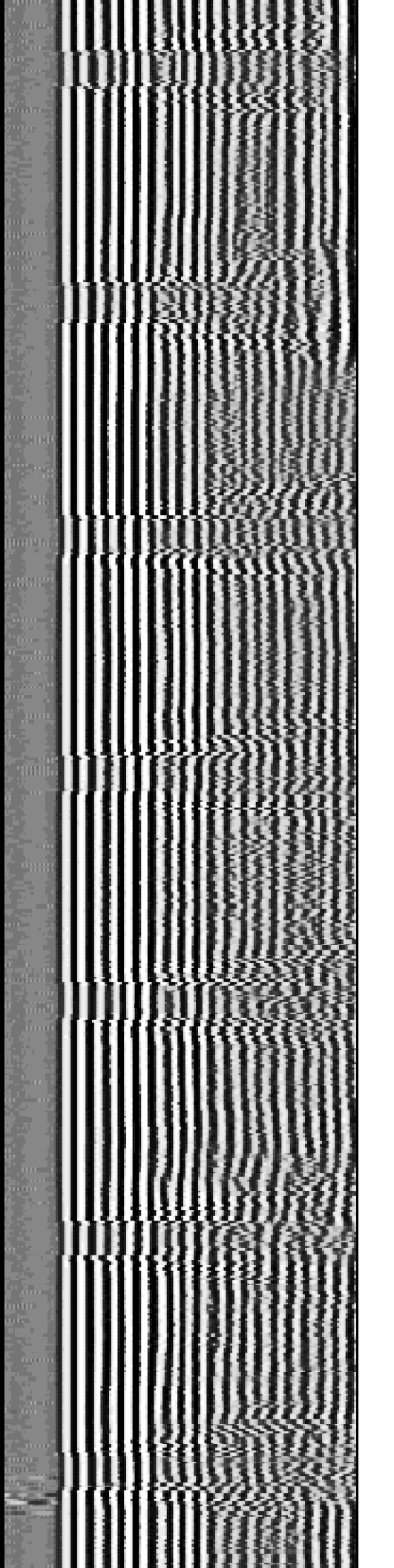
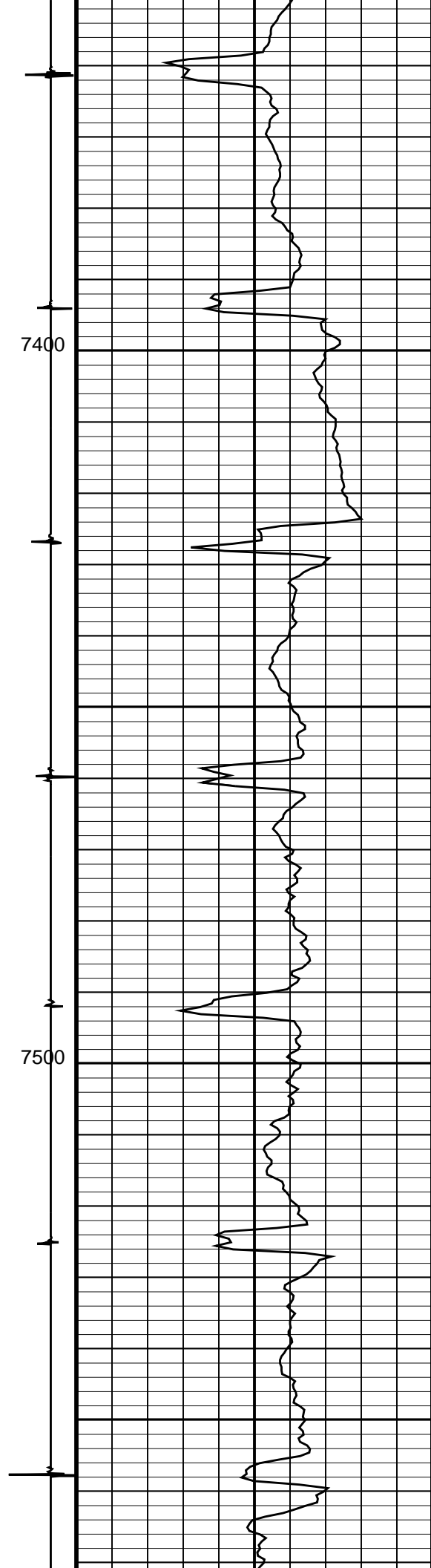
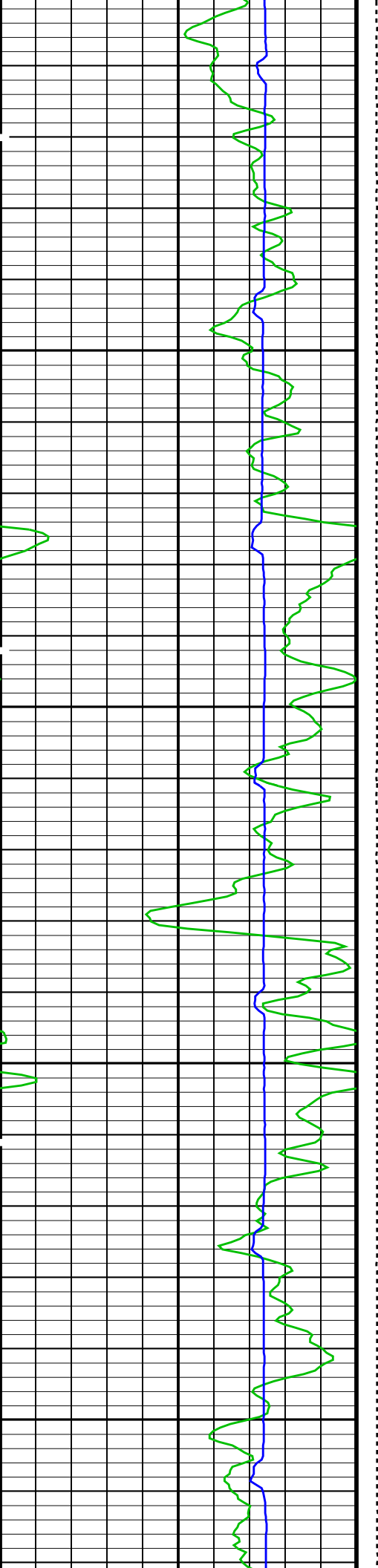




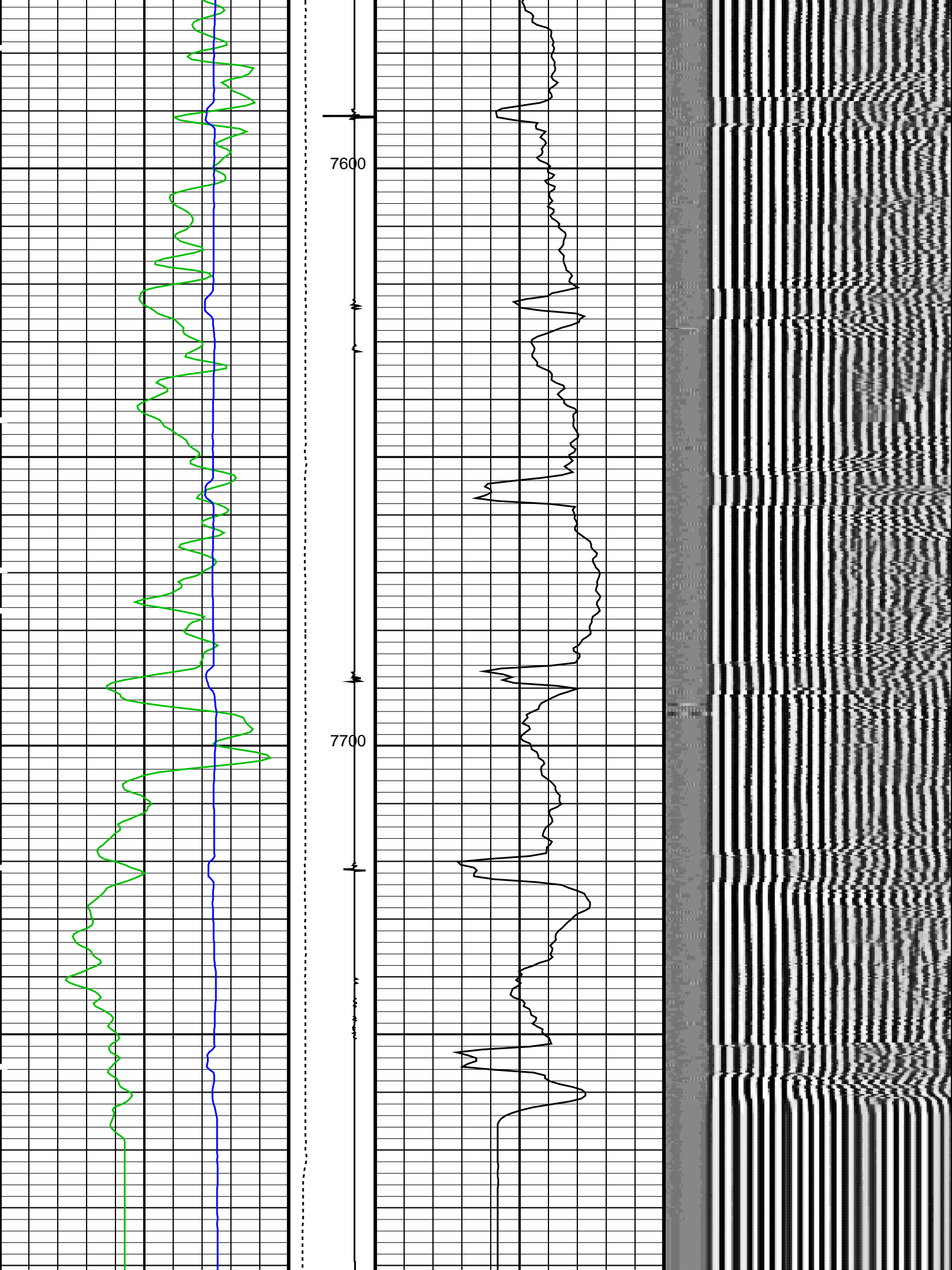












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Output DLIS Files

DEFAULT	SCMT_PSP_029LUP	FN:28	PRODUCER	25-Aug-2015 15:18
---------	-----------------	-------	----------	-------------------

Company:

PetroPro Engineering, Inc

Schlumberger

Well:

Winn 2

Field:

3rd Creek

County:

Adams

State:

CO

CBL, CCL, GR, WTEP, WPRE