

# E&P Wireline

Company: Anadarko

Well: Troutd 14N-33HZ

Field: Wattenberg

County: Weld

State: Colorado

CBL, VDL, GR, CCL, TEMP, PRES

County:	Weld					
Field:	Wattenberg					
Location:	304/FSL, 1650/FWL					
Well:	Troutd 14N-33HZ					
Company:	Anadarko					
LOCATION		304/FSL, 1650/FWL		Elev.:	K.B.	5062.00 ft
		SESW SEC 33 T2N R67W			G.L.	5037.00 ft
					D.F.	5062.00 ft
Permanent Datum:		GROUND LEVEL		Elev.: 5037.00 ft		
Log Measured From:		KELLY BUSHING		25.00 ft above Perm. Datum		
Drilling Measured From:		KELLY BUSHING				
API Serial No.		Section	Township	Range		
0512339282		33	2N	67W		

Logging Date	8-Jul-2015								
Run Number	1								
Depth Driller	12582 ft								
Schlumberger Depth	7860 ft								
Bottom Log Interval	7847 ft								
Top Log Interval	350 ft								
Casing Fluid Type	FRESH WATER								
Salinity									
Density	8.4 lbm/gal								
Fluid Level	0 ft								
BIT/CASING/TUBING STRING									
Bit Size	8.000 in								
From	0 ft								
To	12526 ft								
Casing/Tubing Size	5.500 in								
Weight	17 lbm/ft								
Grade	HCP-110								
From	0 ft								
To	12526 ft								
Maximum Recorded Temperatures									
Logger On Bottom	8-Jul-2015					13:20			
Unit Number	9971		PLATTEVILLE						
Recorded By	SHELBY LANGFORD								
Witnessed By	DARREL BOTHWELL								

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		92 deg		
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: 8-JUL-2015 12:05:53

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-33A-SLC
Serial Number:		Serial Number:		Serial Number:	
Calibration Date:		Calibration Date:	16-MAR-2015	Length:	25000 FT
Calibrator Serial Number:		Calibrator Serial Number:		Conveyance Method:	Wireline
Calibration Cable Type:	1-33A-SLC	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-4	Calibration RMS:	0		
Wheel Correction 2:	-4	Calibration Peak Error:	0		

## 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. BENCHMARK
2.
3.
4.
5.
6.

## DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
MAIN PASS RAN UNDER 2000 PSI AT SURFACE	
REPEAT PASS RAN UNDER 2000 PSI AT SURFACE	
COLLAR AT 7667 ON REPEAT PASS IS ONLY CCL NOISE AS INDICATED BY TRANSIT TIME, AMPLITUDE, AND MAIN PASS	

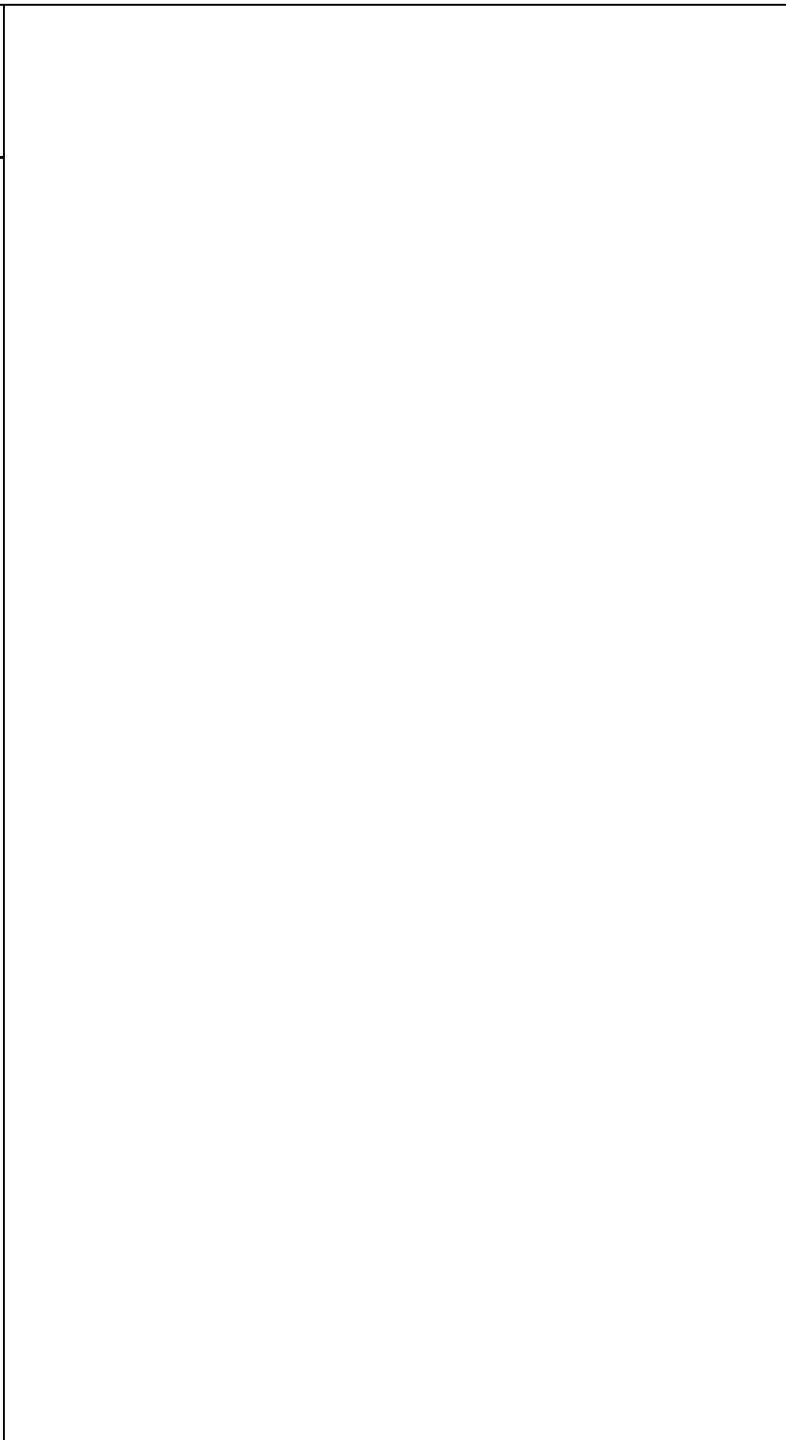
FIRST LOG IN WELL PROCEDURES FOLLOWED	
THANK YOY FOR CHOOSING E&P WIRELINE	
YOUR CREW TODAY HAS BEEN	
SHELBY LANGFORD	
BRENTON KRAL	
SARAH TROUTNER	

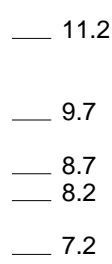
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT	
WITM-A PSC_16MHZ	

DOWNHOLE EQUIPMENT	
<div> <div> <div>MH-22</div> <div>MH-22</div> <div>30.4</div> </div> <div> <div>AH-38</div> <div>Detail MT</div> <div>TelStatus</div> <div>CTEM</div> <div>28.5</div> <div>28.8</div> </div> <div> <div>PSPT</div> <div>PSC-A</div> <div>PSPT-A 1765</div> <div>PSTC-A</div> <div>PBMS-A</div> <div>10k_Sapphire_Mano</div> <div>RTD_Thermometer</div> <div>GR</div> <div>CCL</div> <div>PBMS</div> <div>24.8</div> <div>21.7</div> <div>21.6</div> <div>21.0</div> <div>20.3</div> <div>20.3</div> </div> <div> <div>SCMT-CB</div> <div>SCMC-CA 8110</div> <div>SECH-CA</div> <div>CMIR-AG</div> <div>SCMS-CB 8284</div> <div>SCMX-CA 8238</div> </div> </div>	

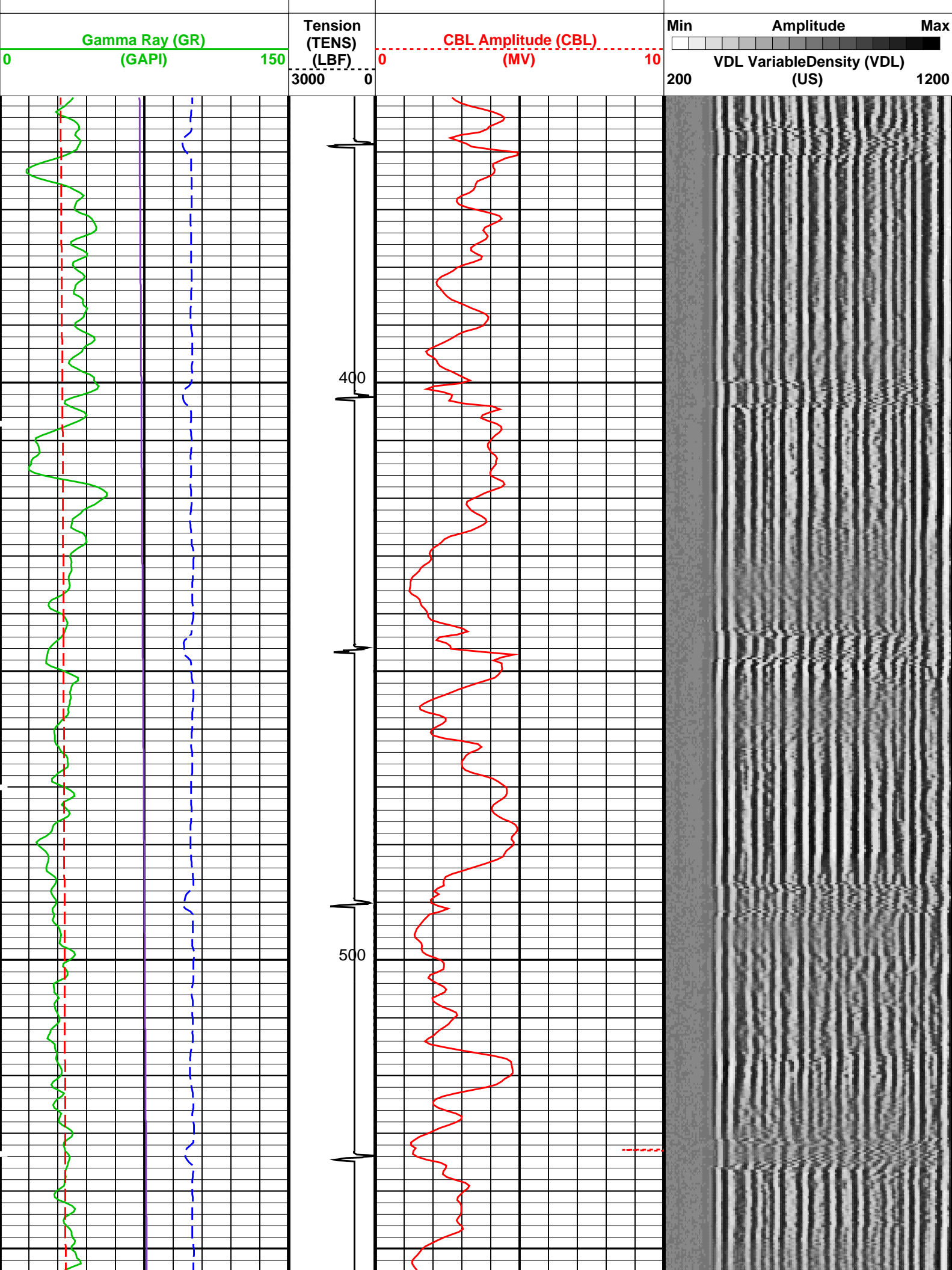


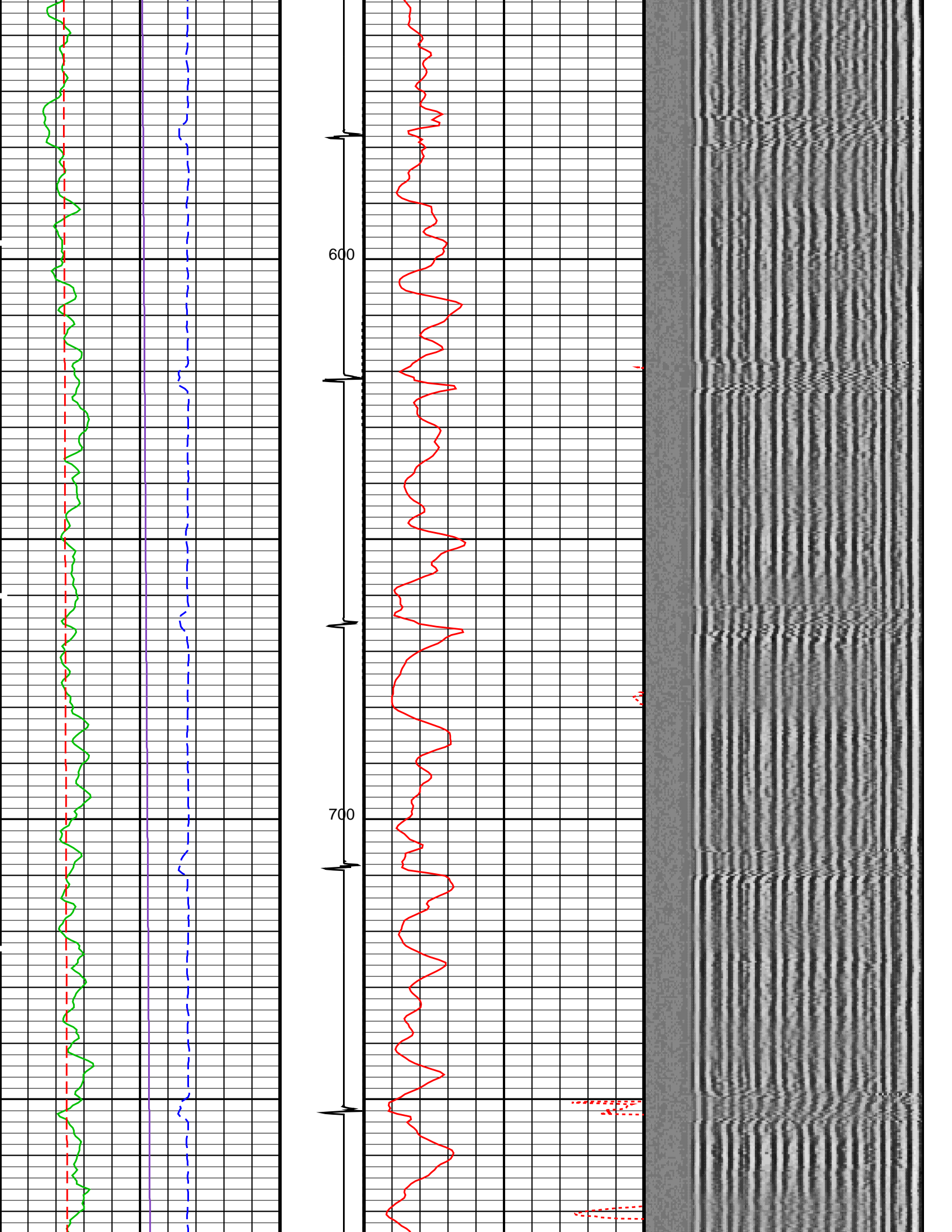


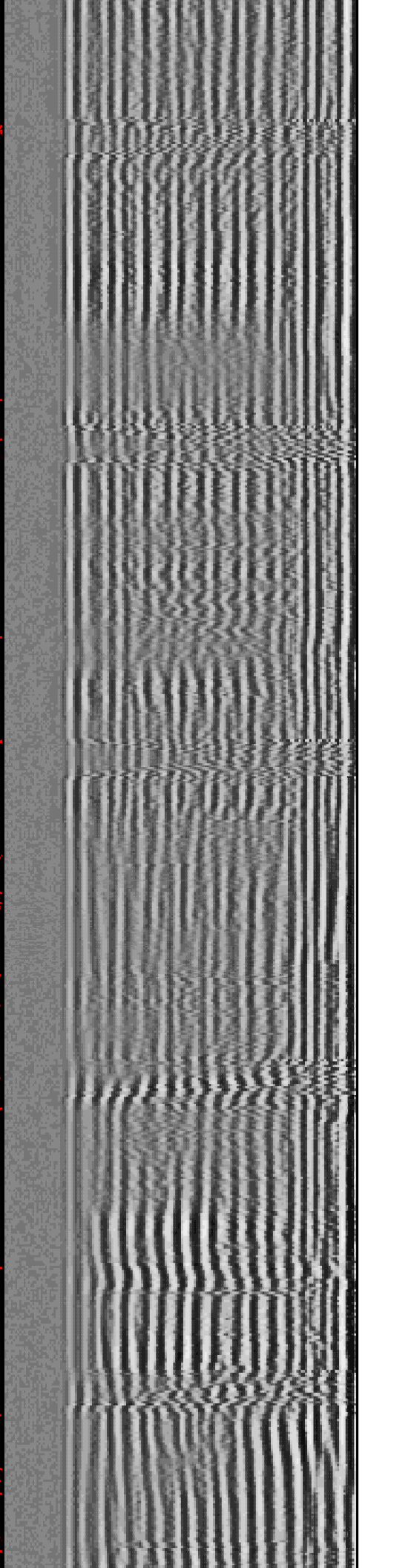
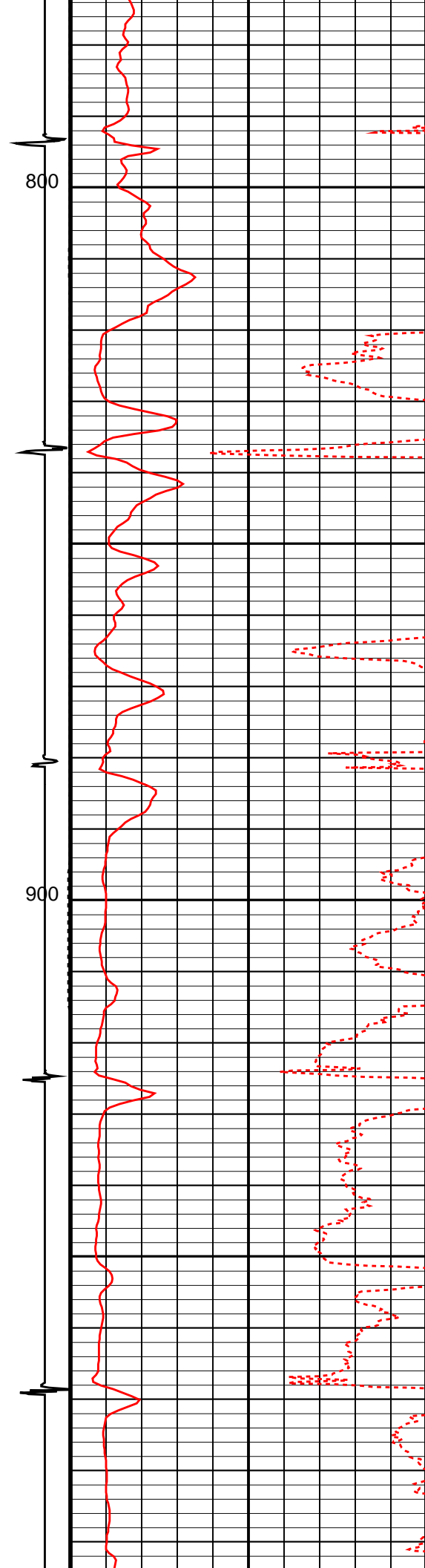
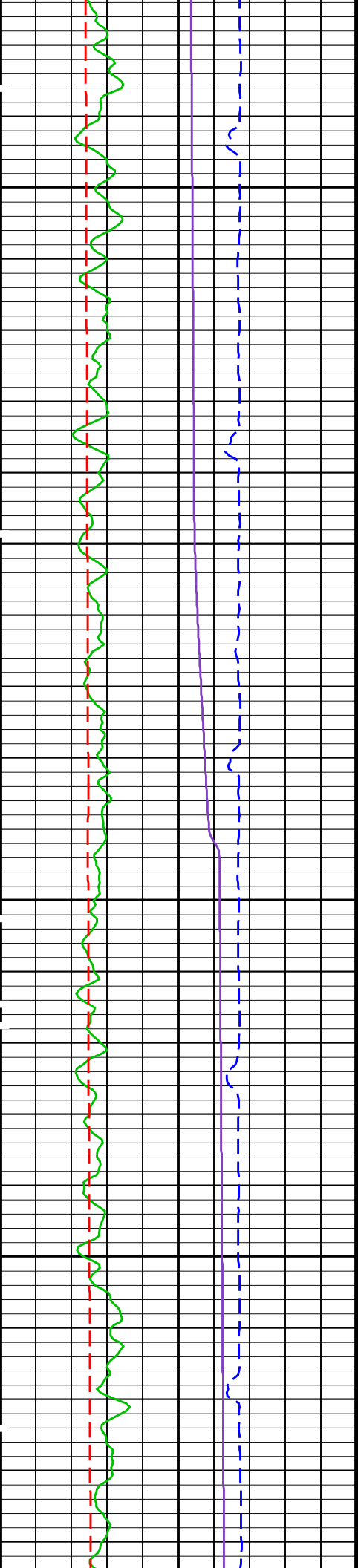
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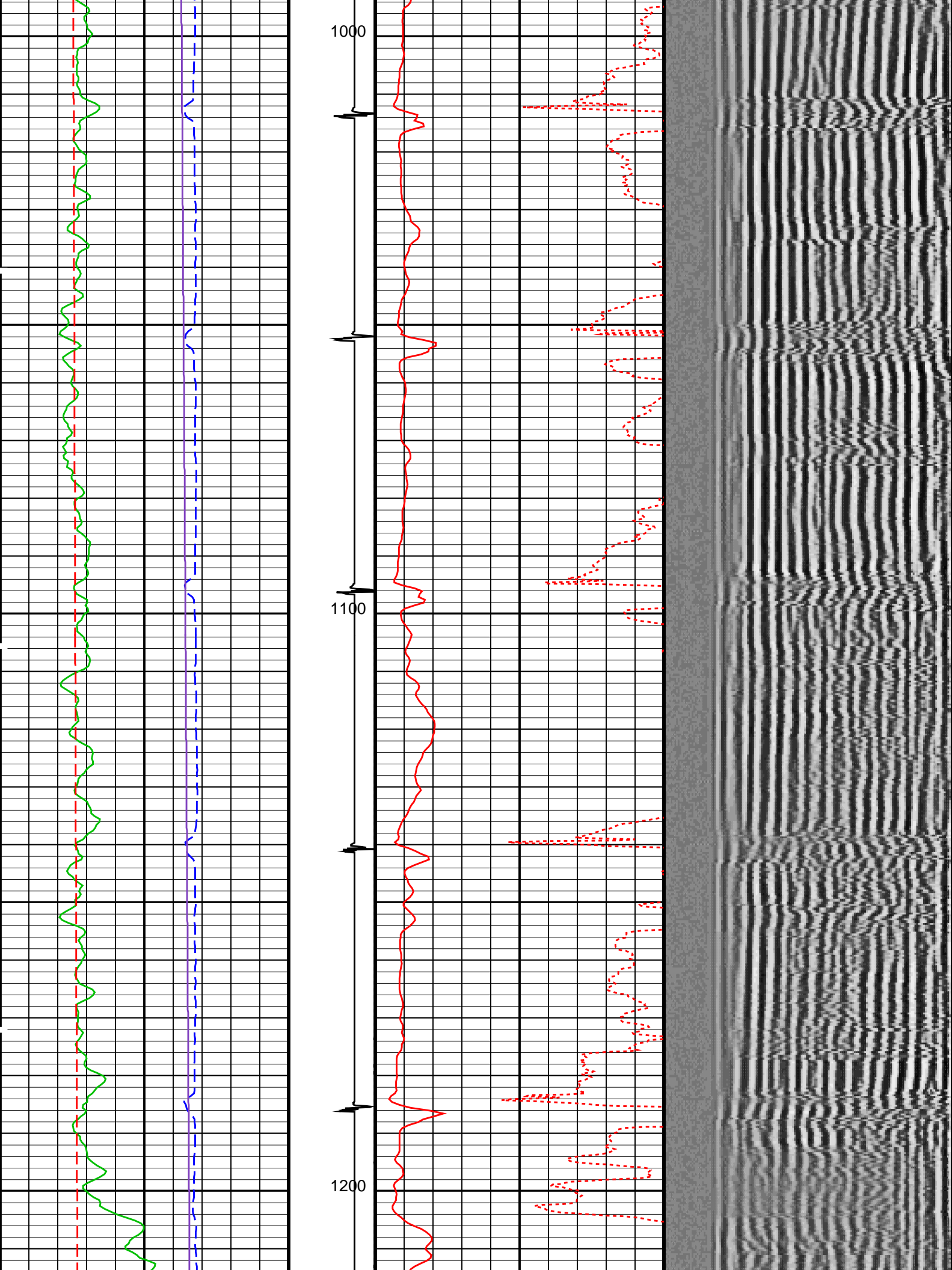




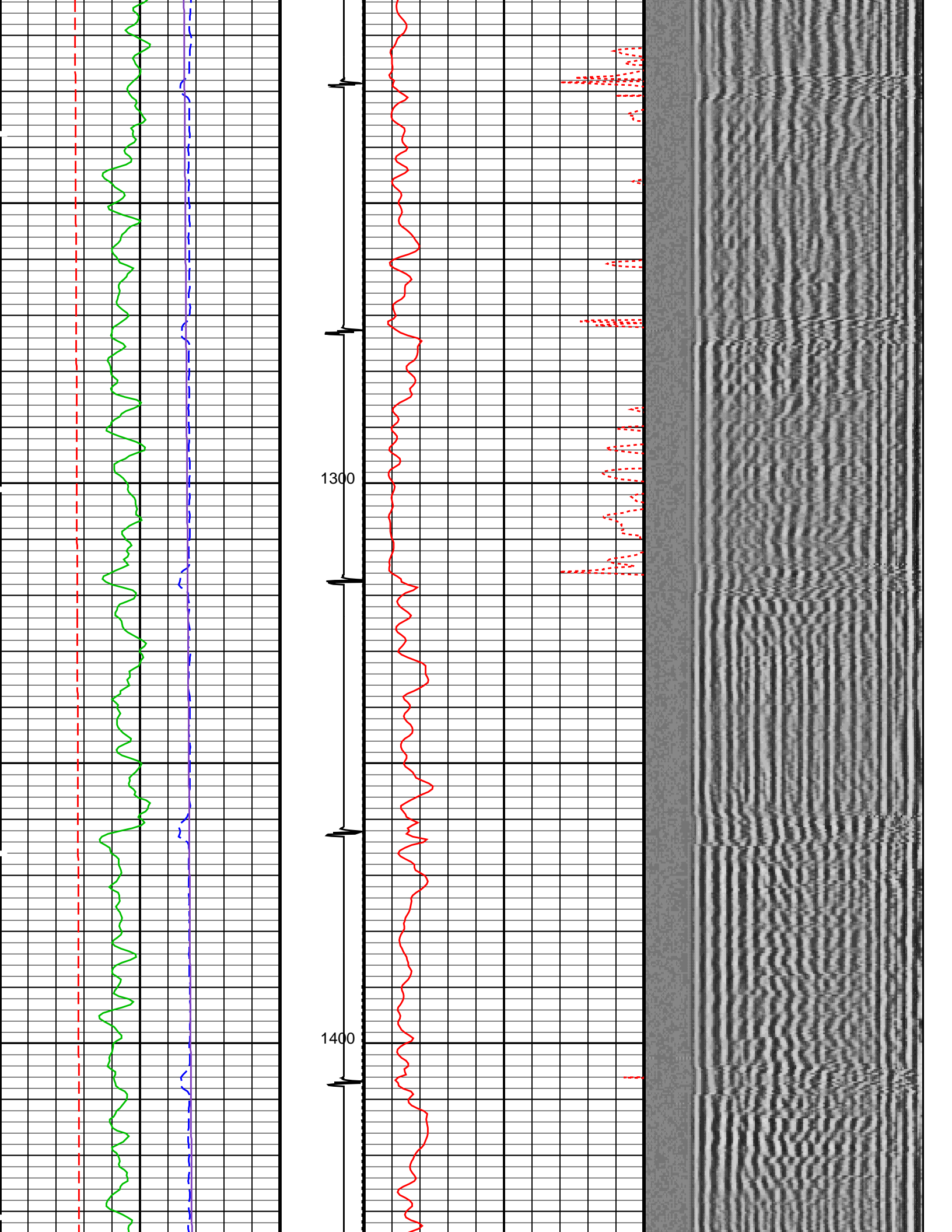


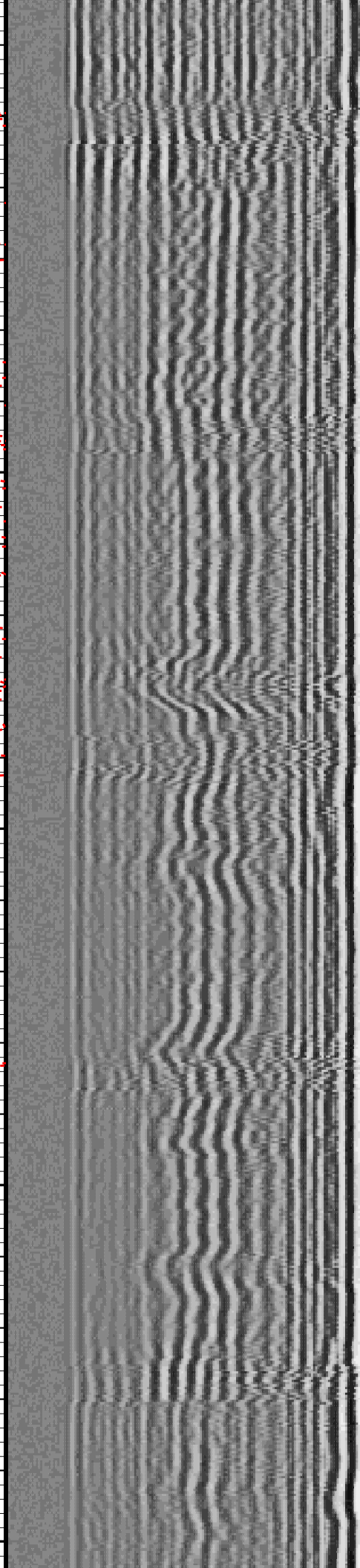
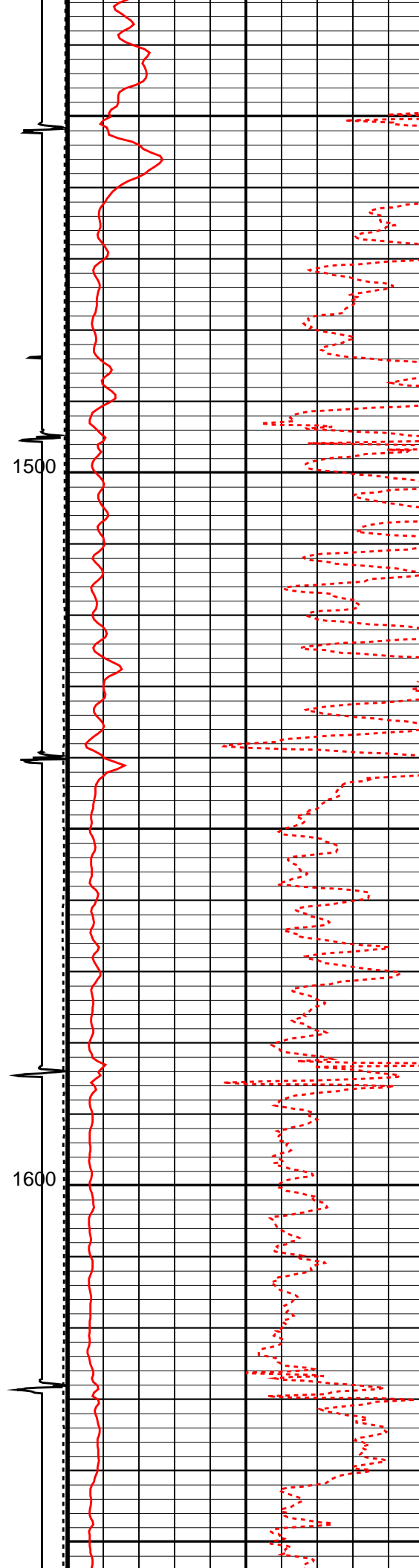
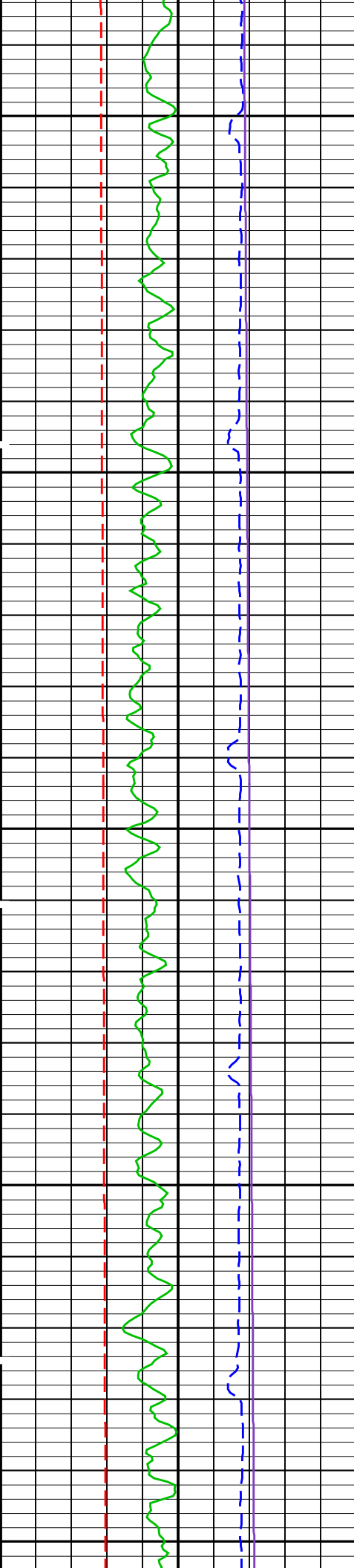


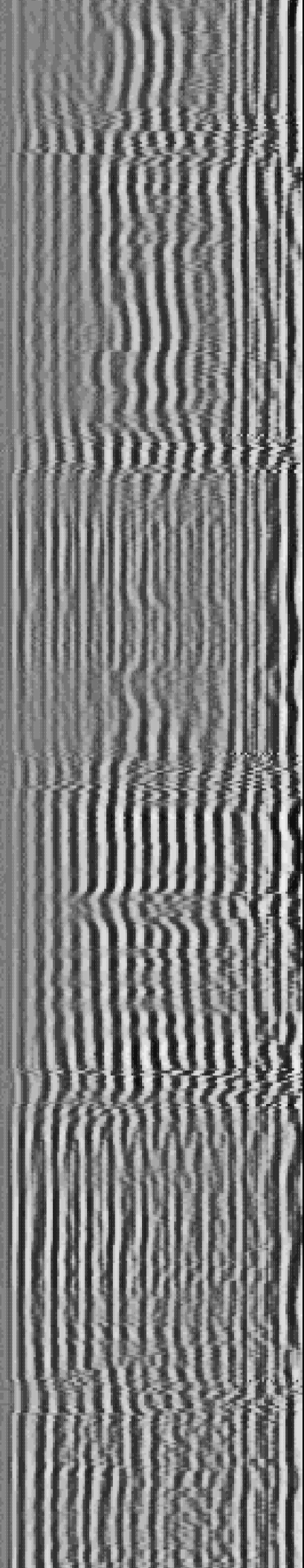
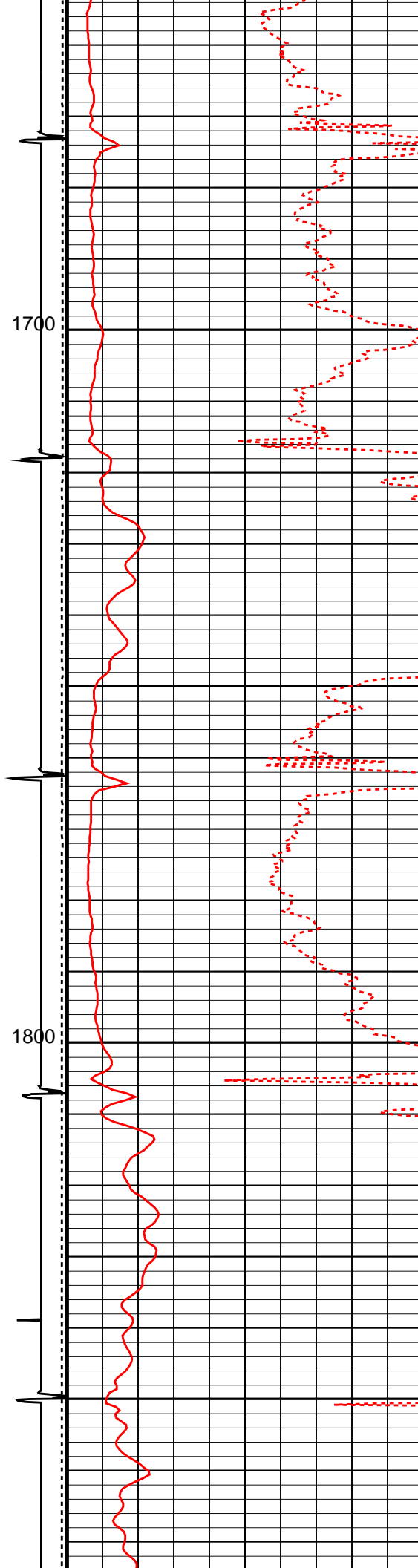
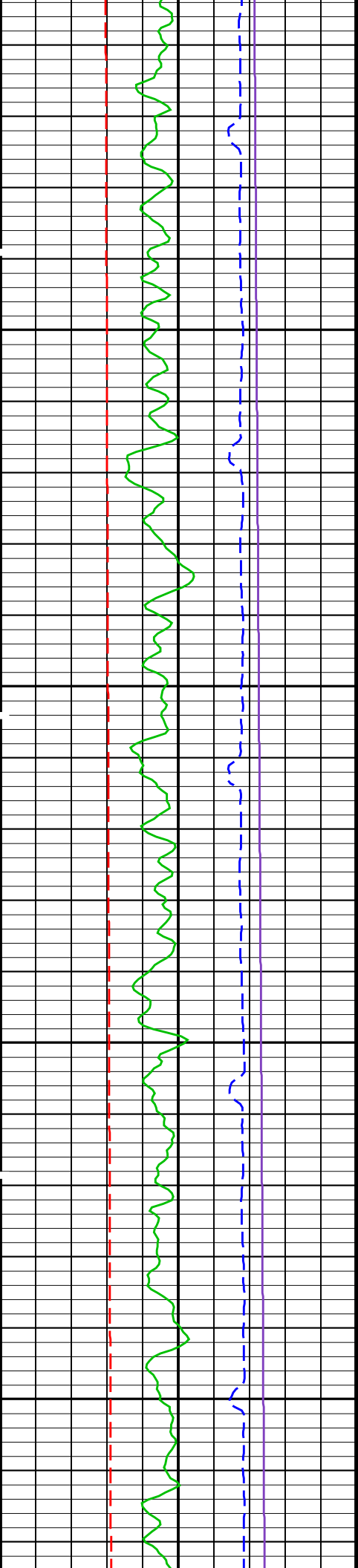


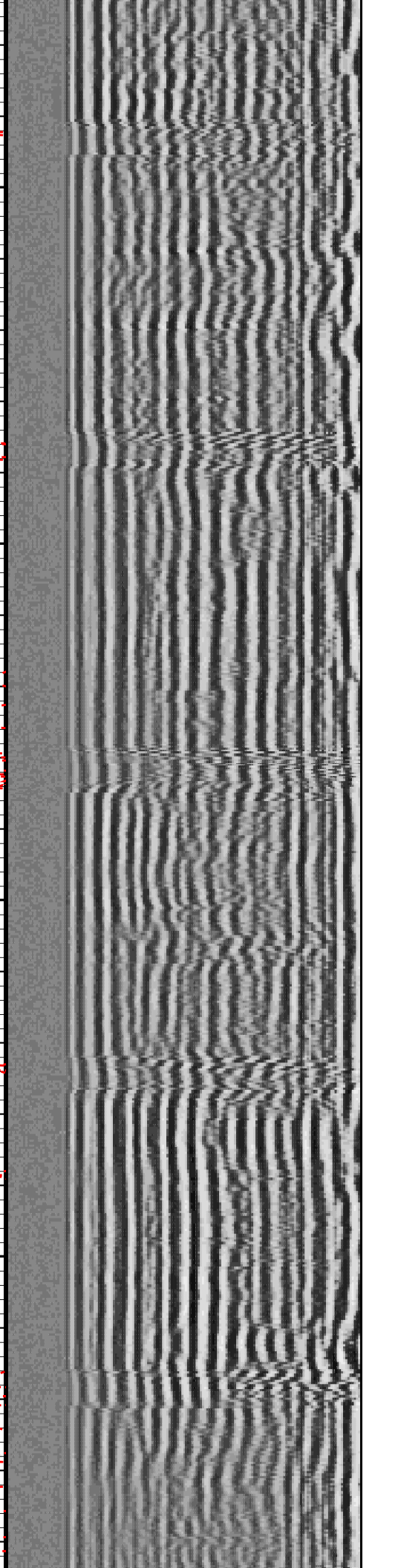
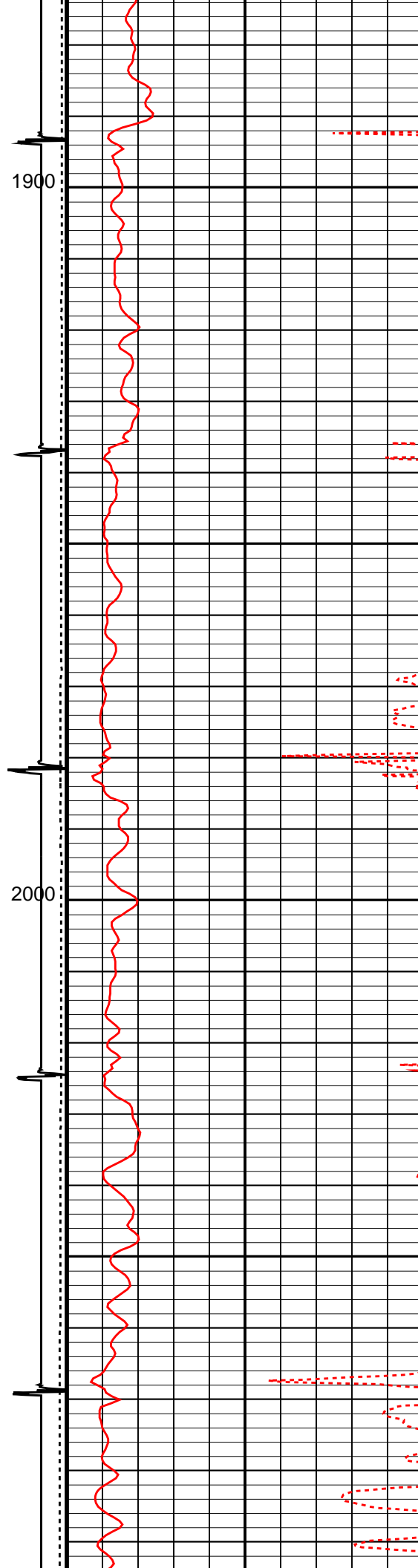
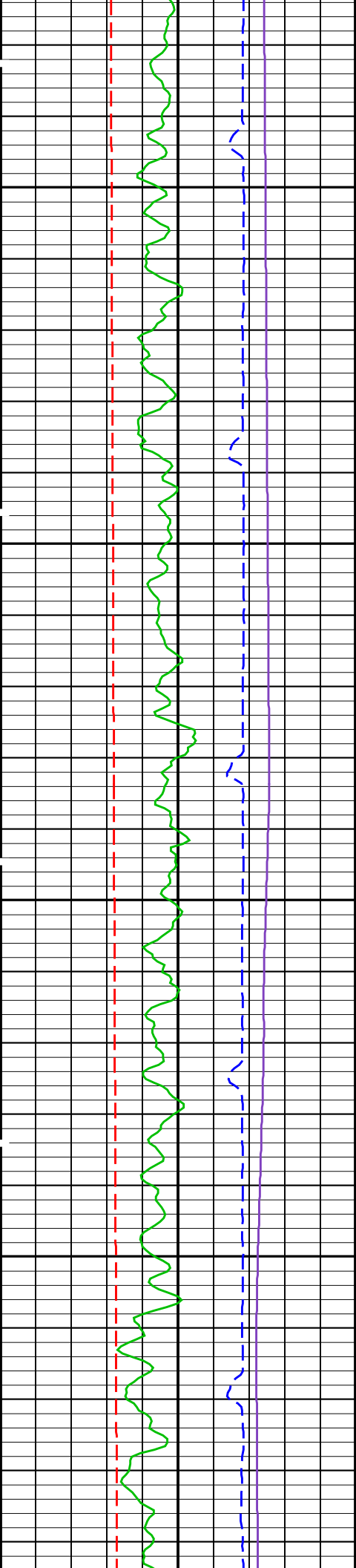




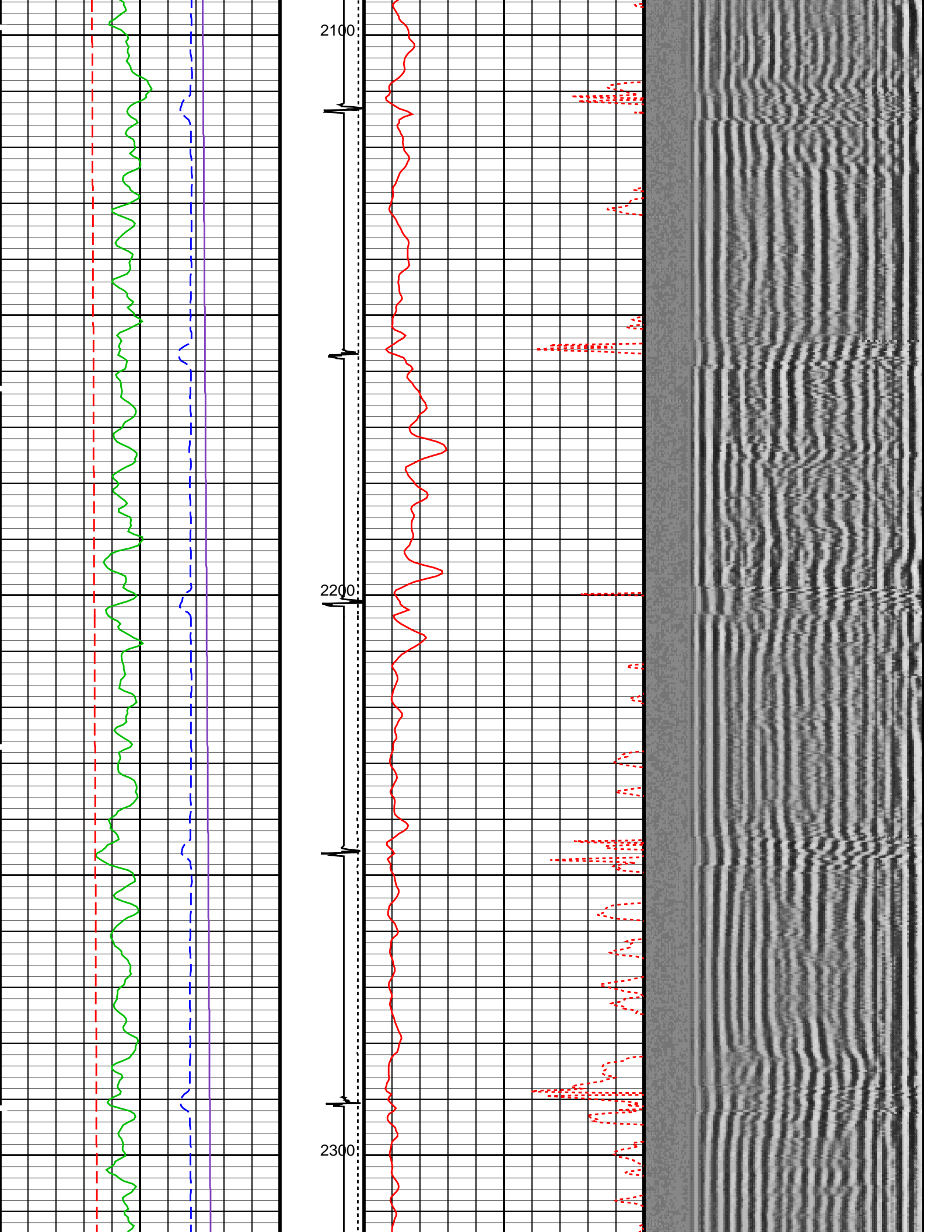


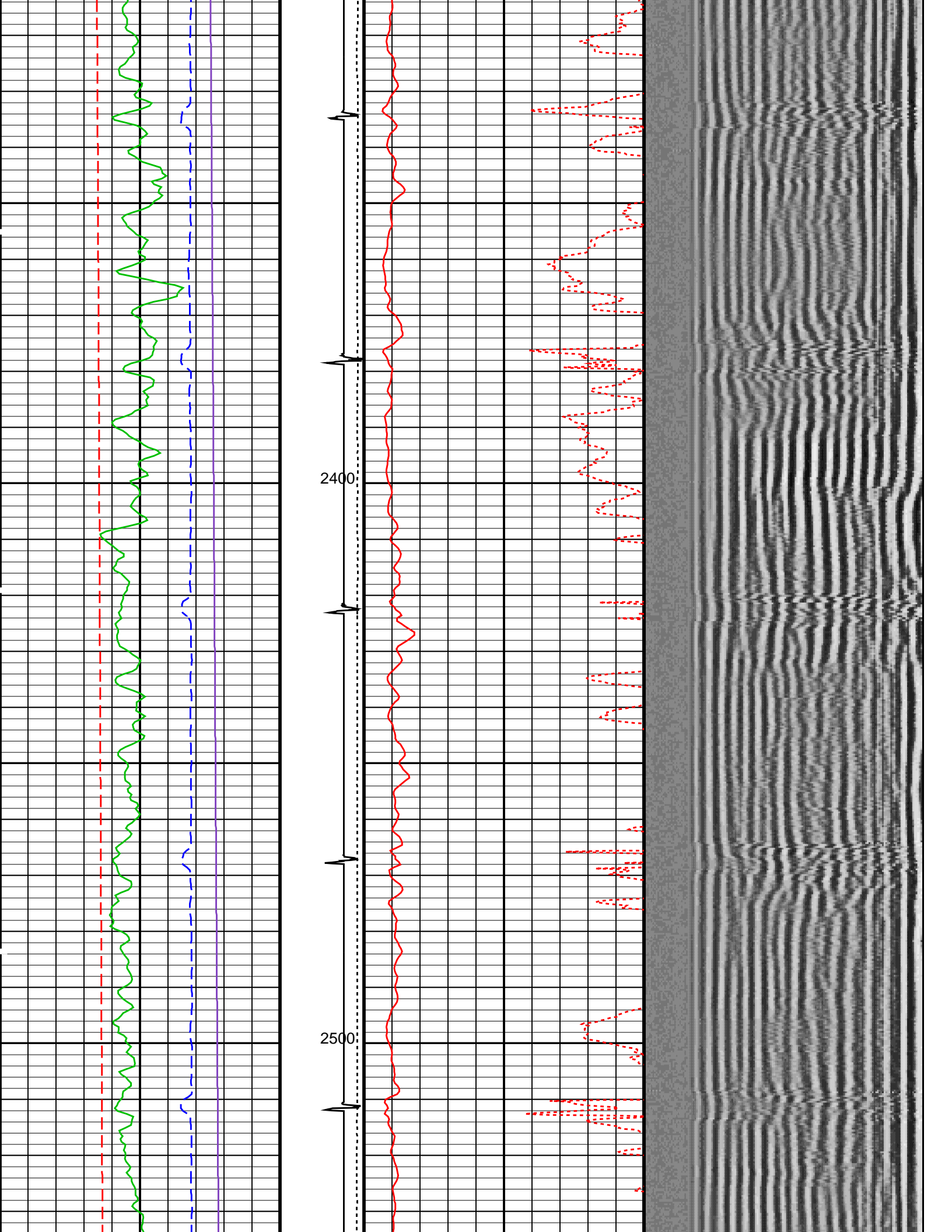


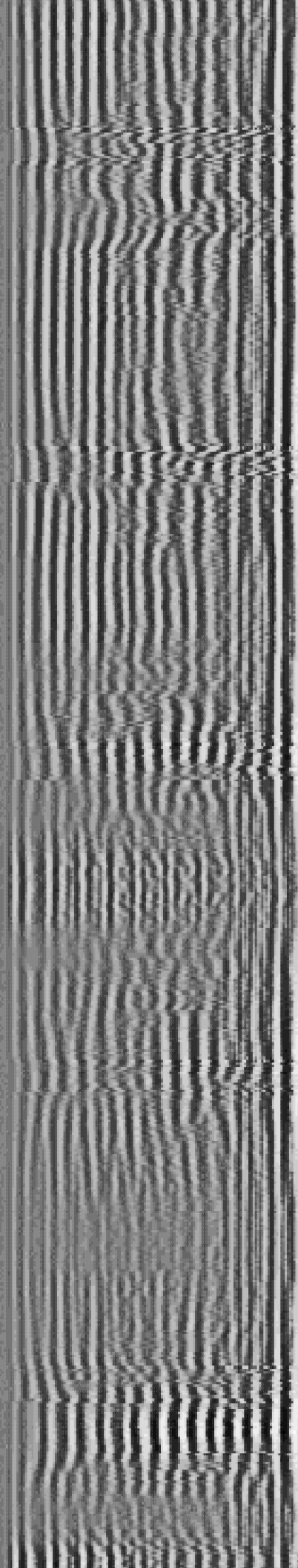
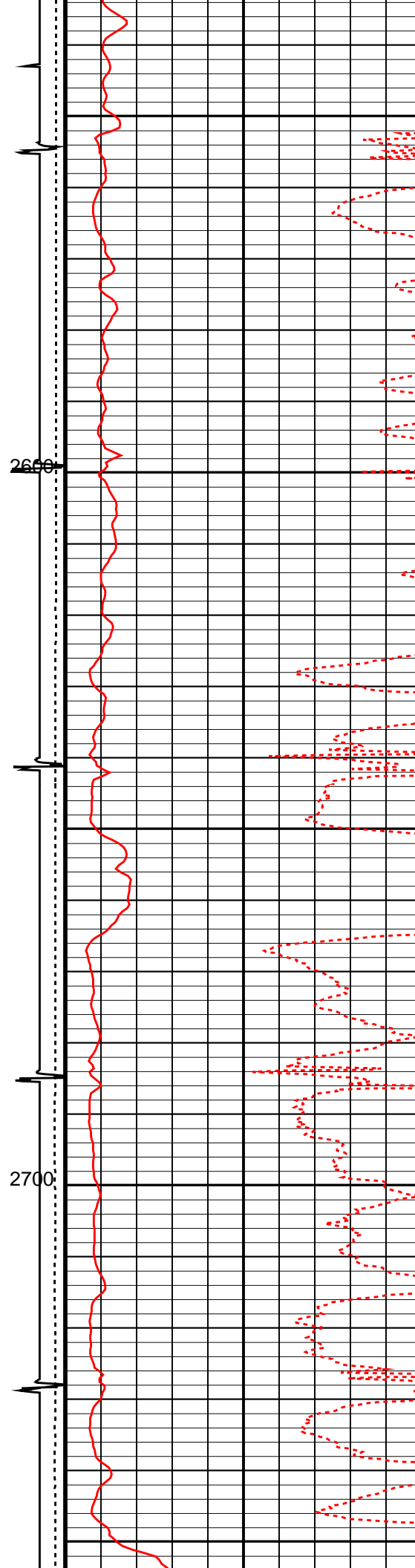
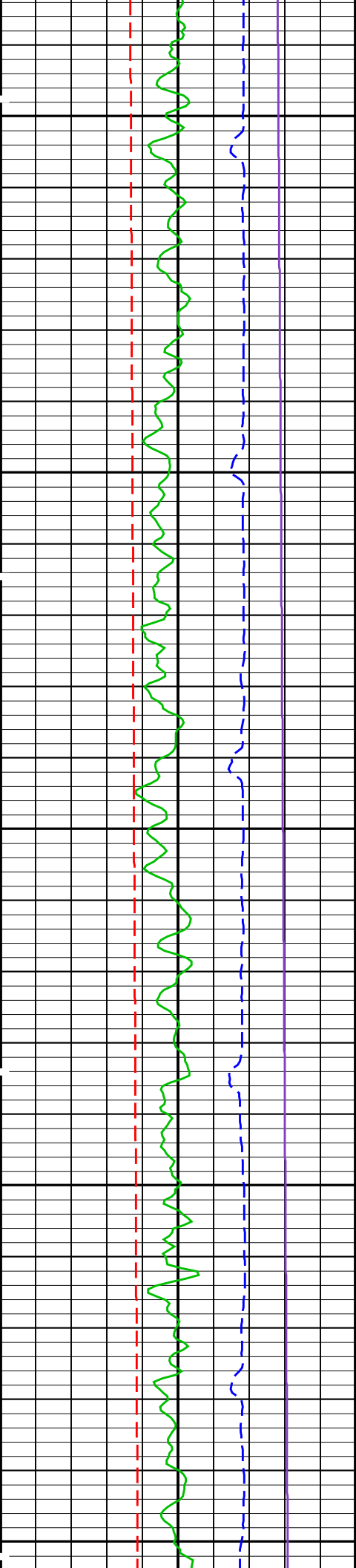


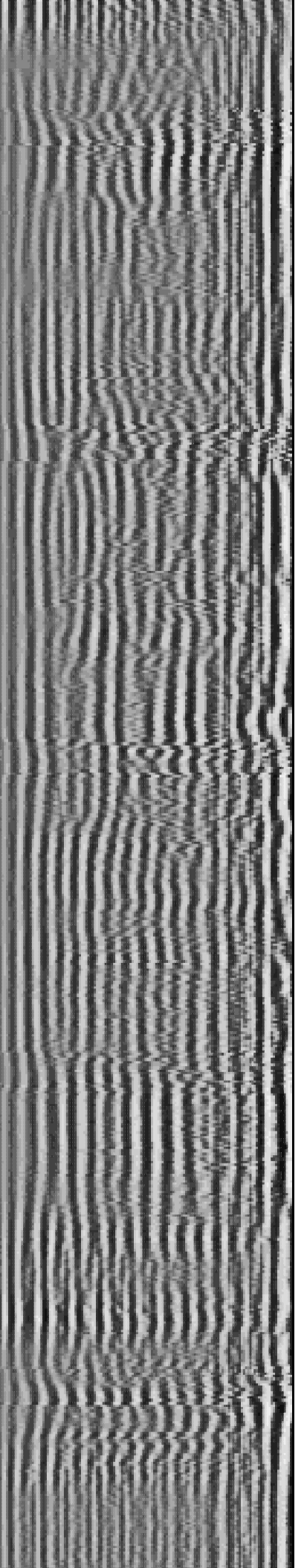
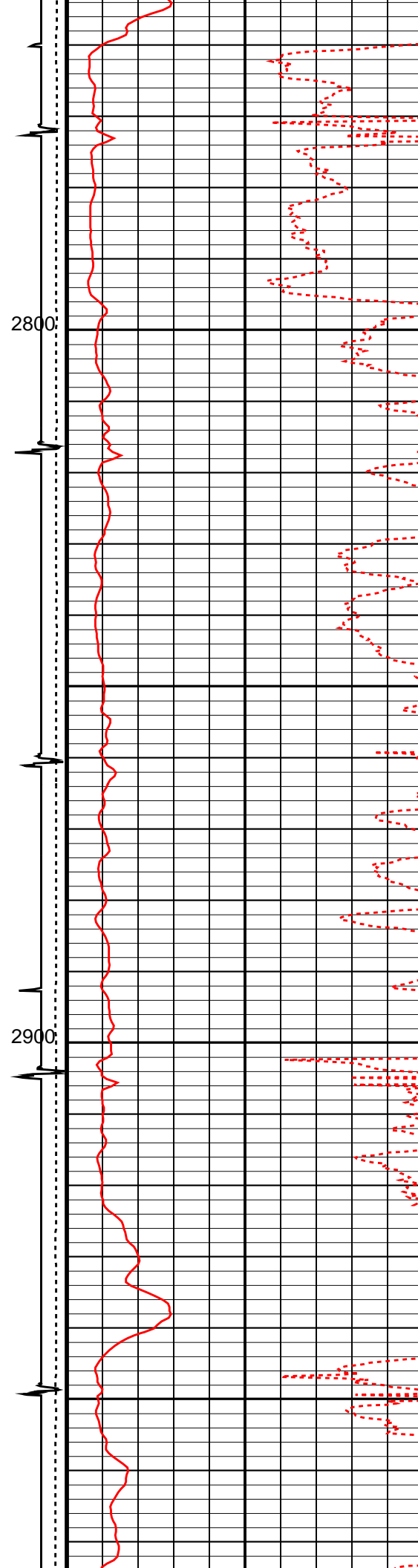
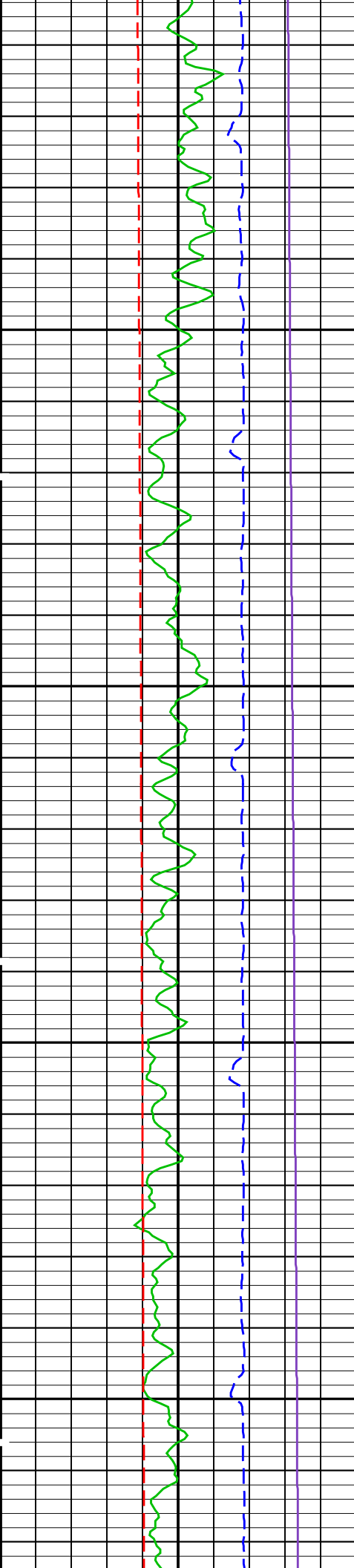




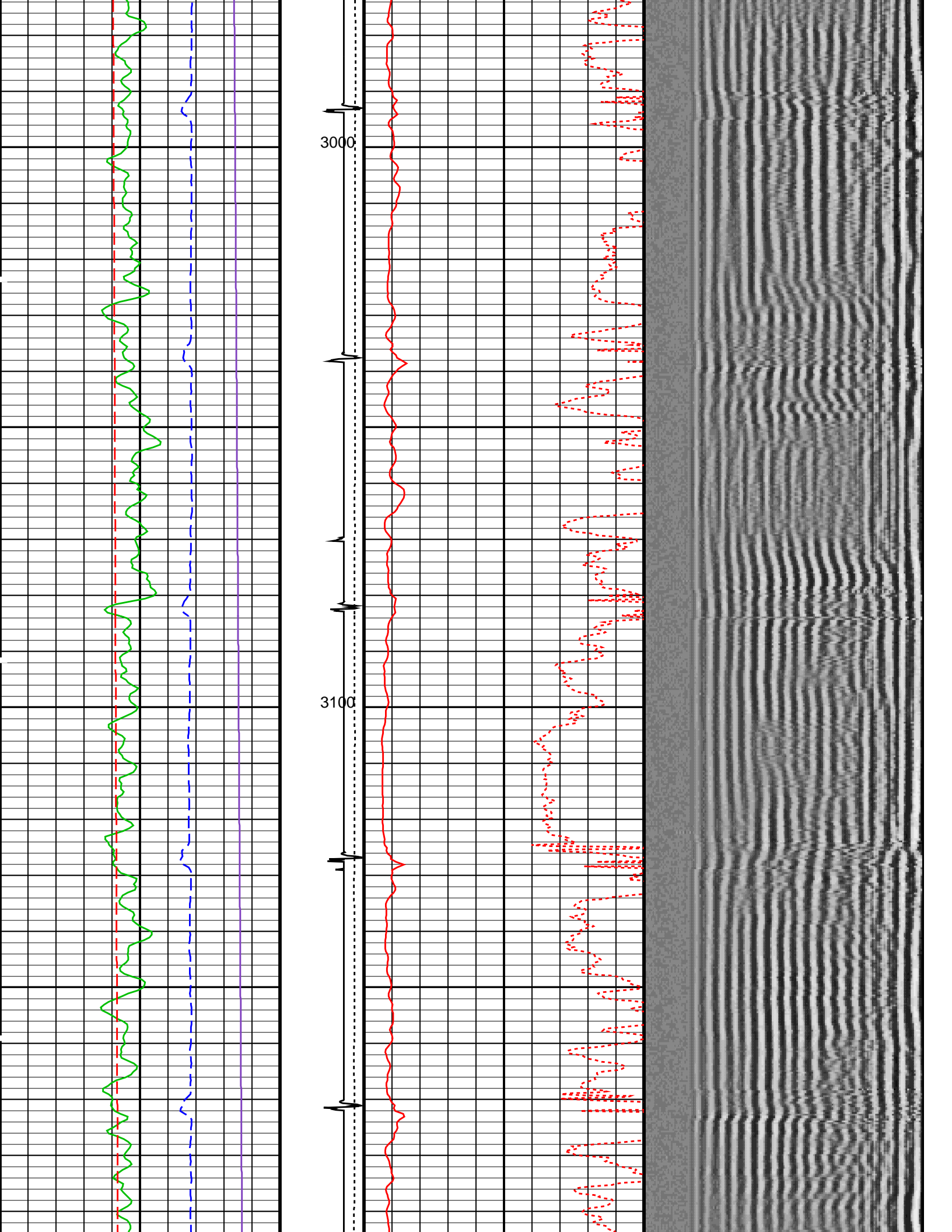


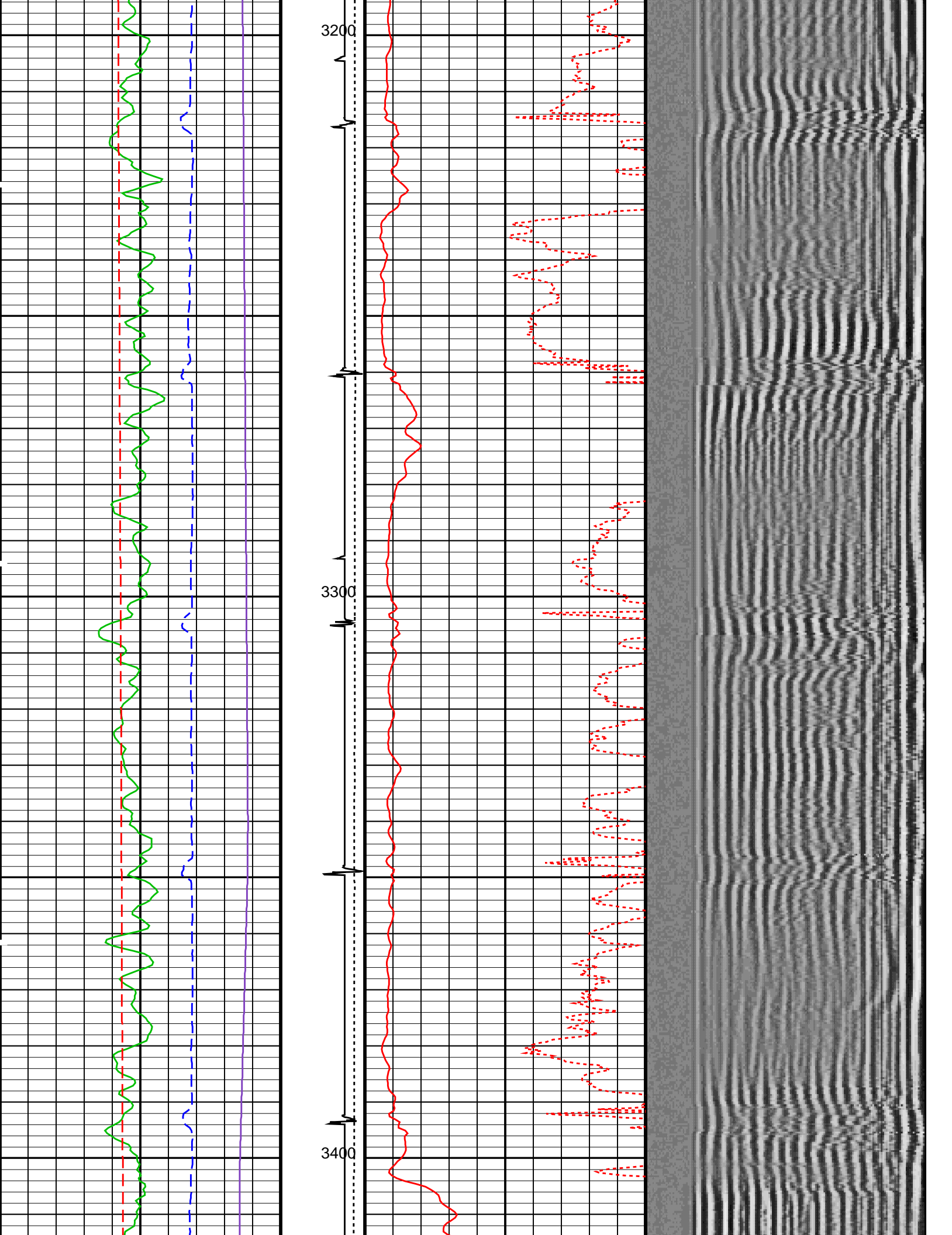


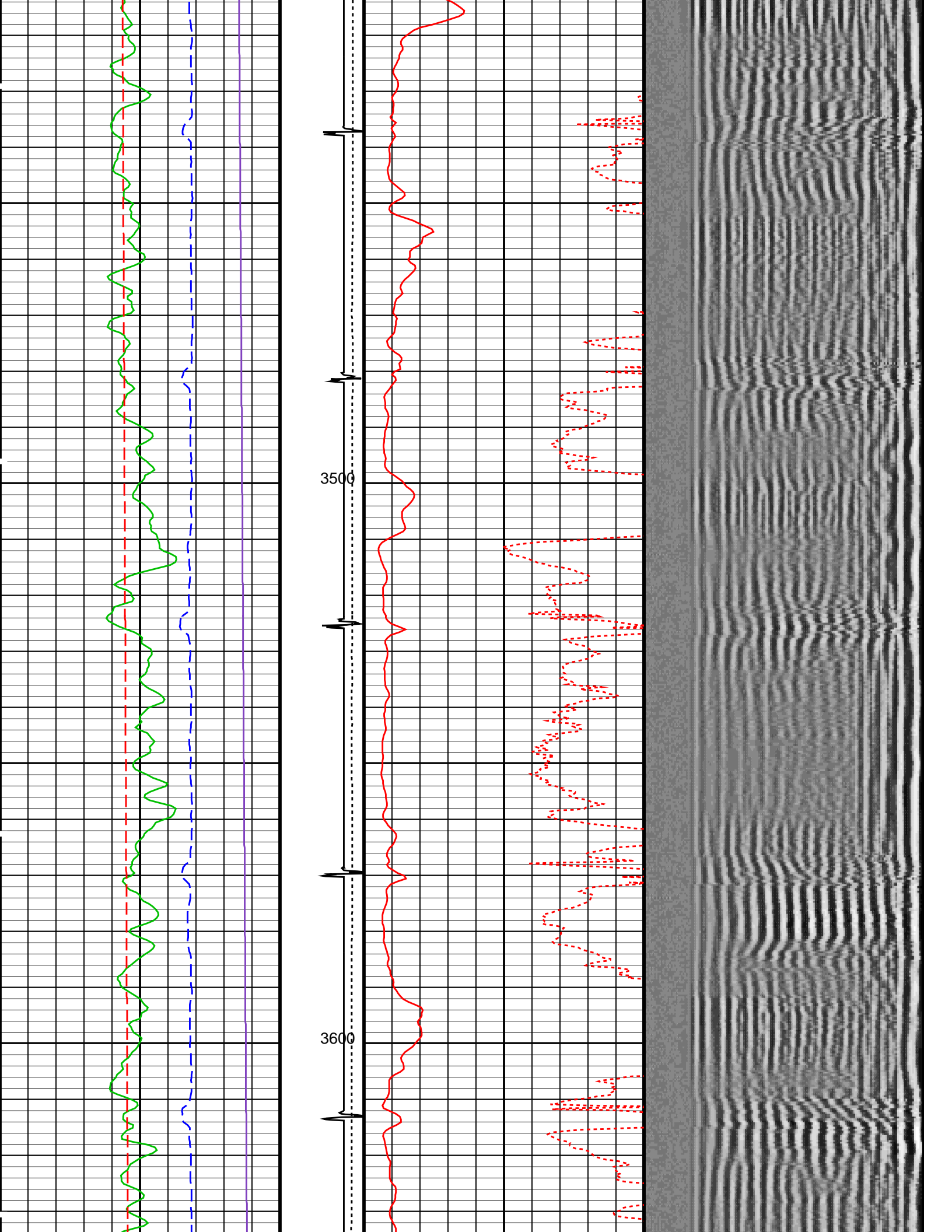


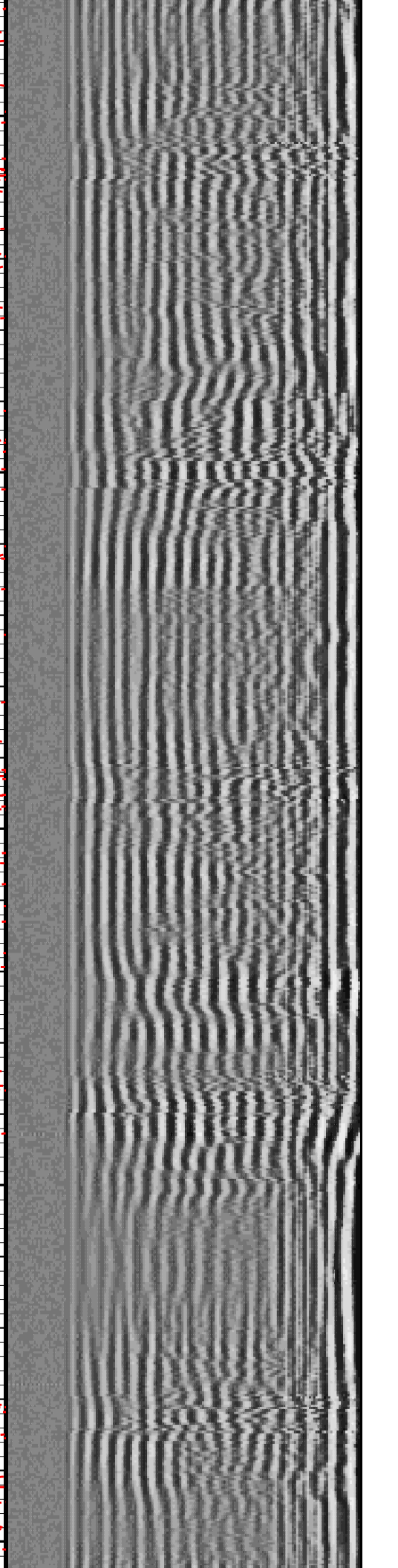
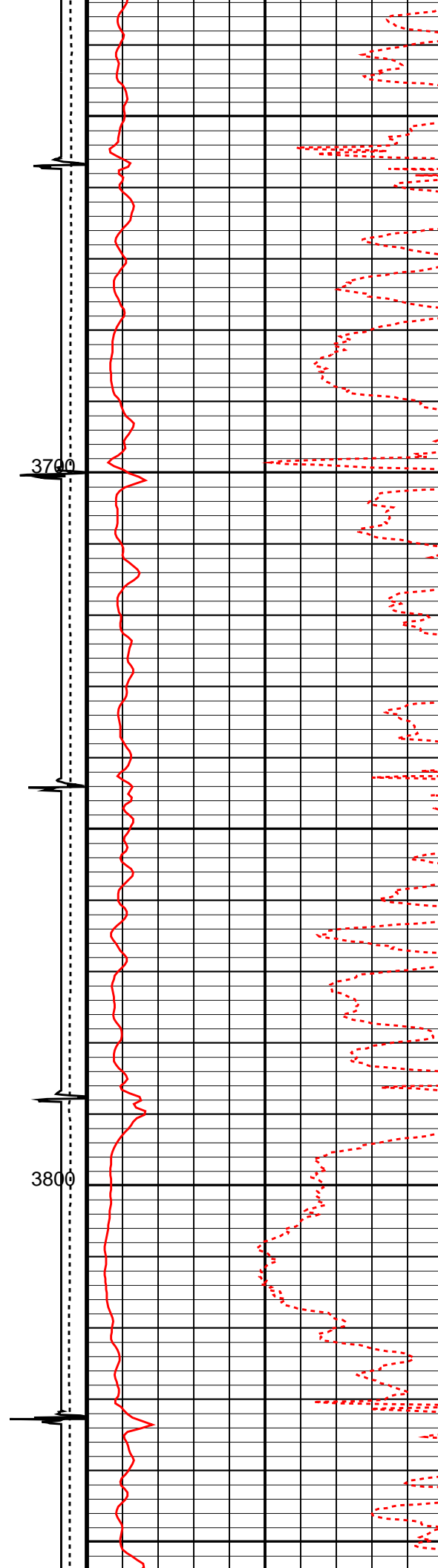
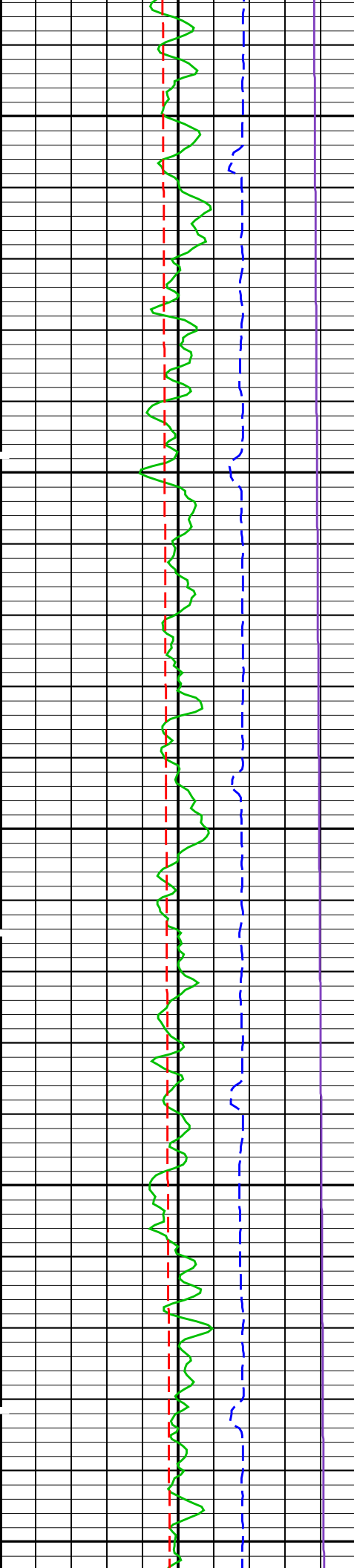




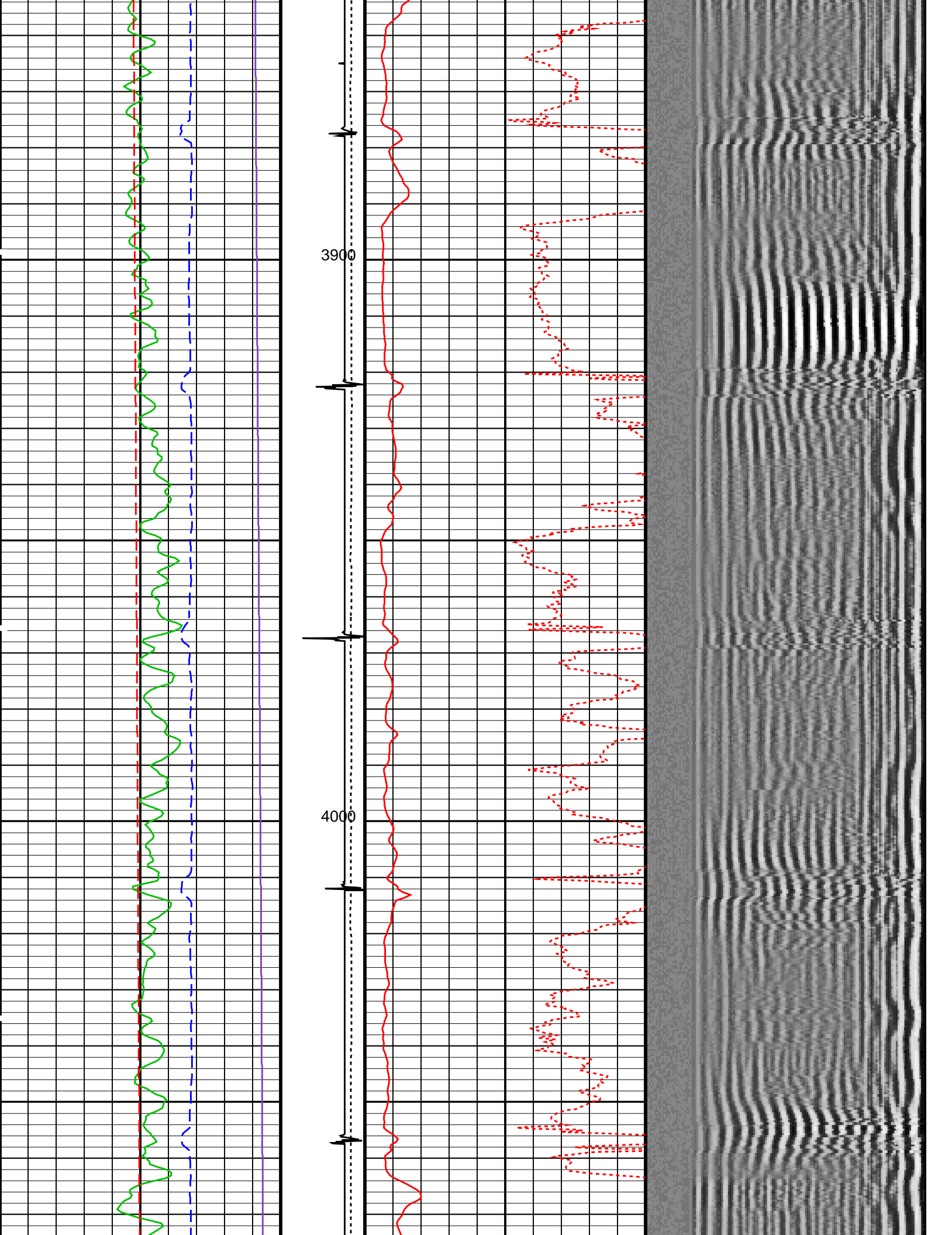


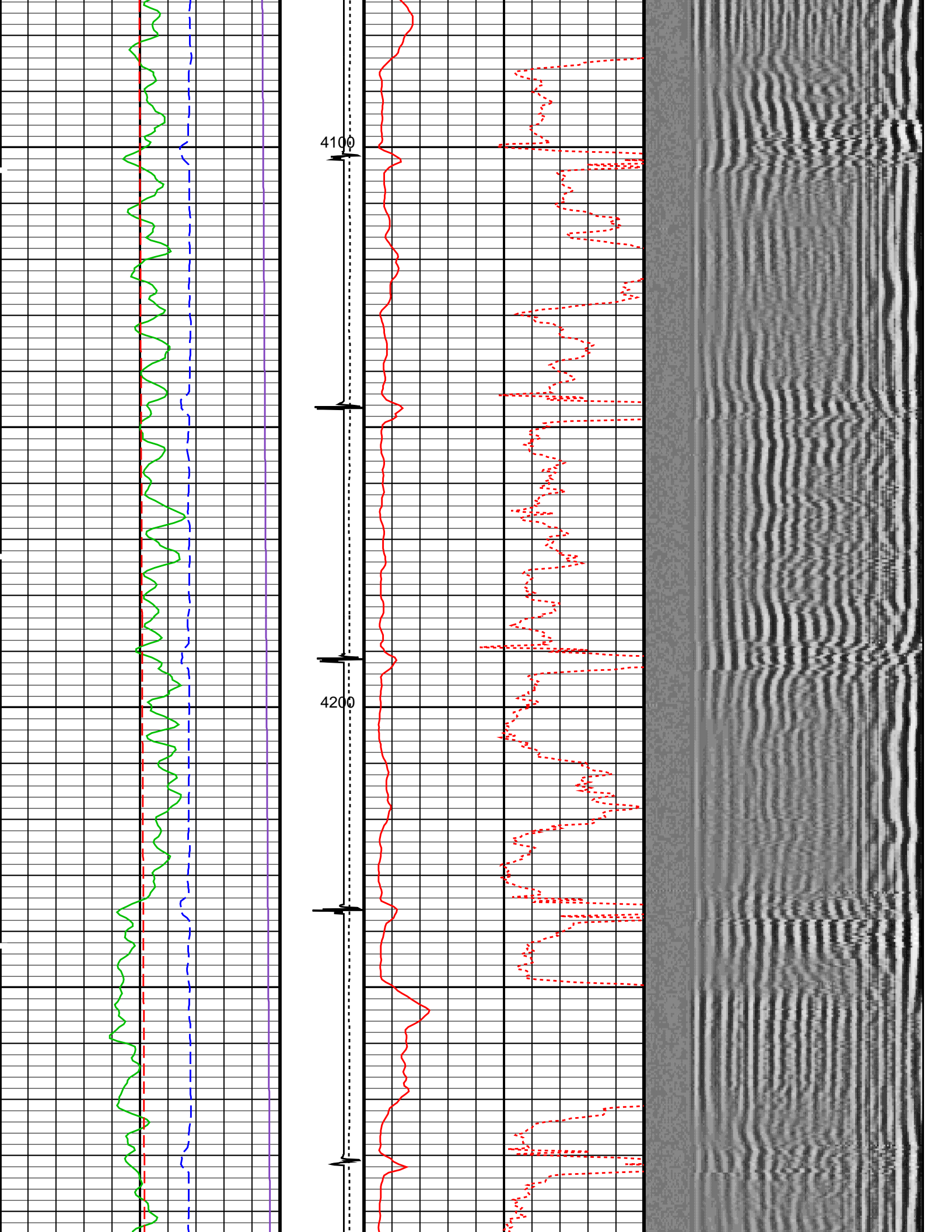


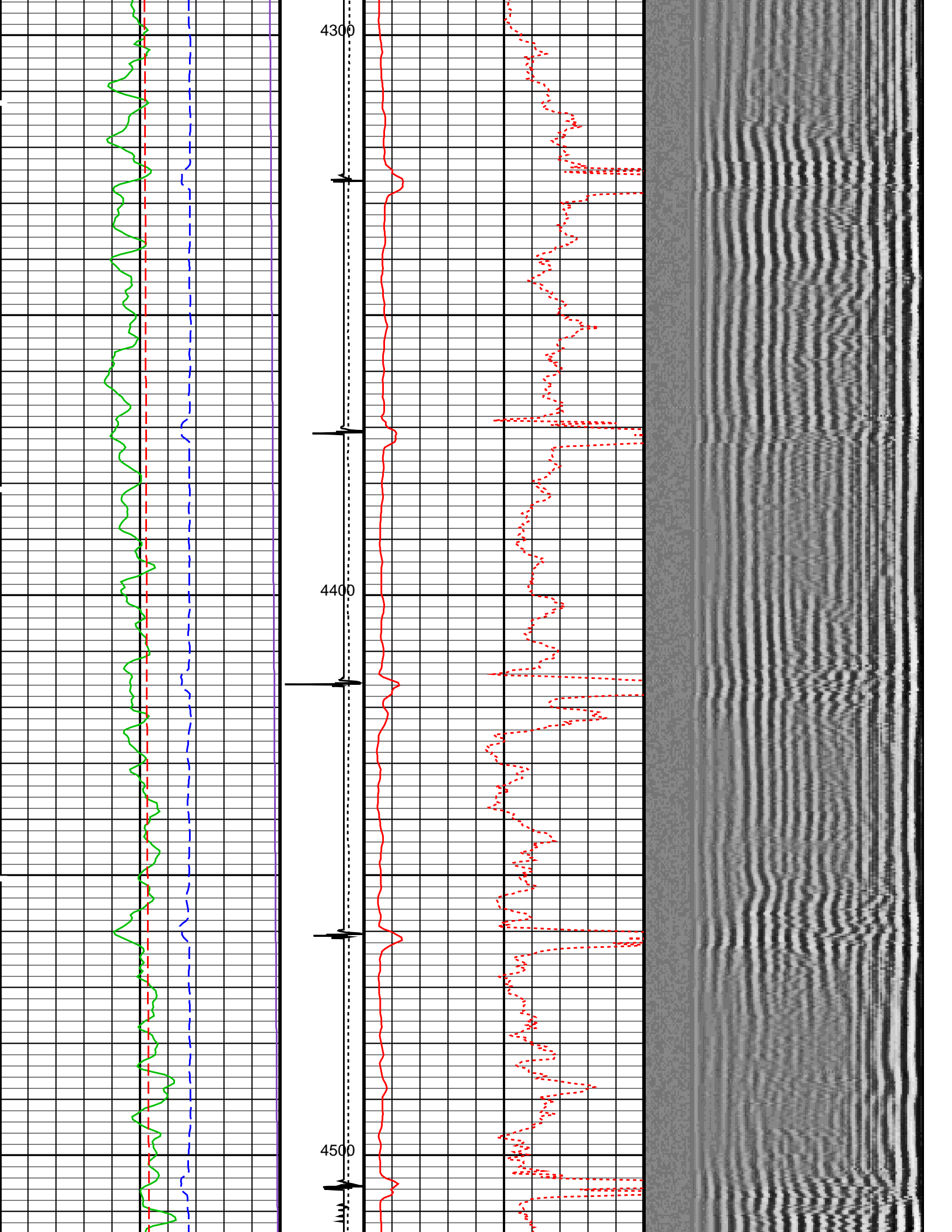


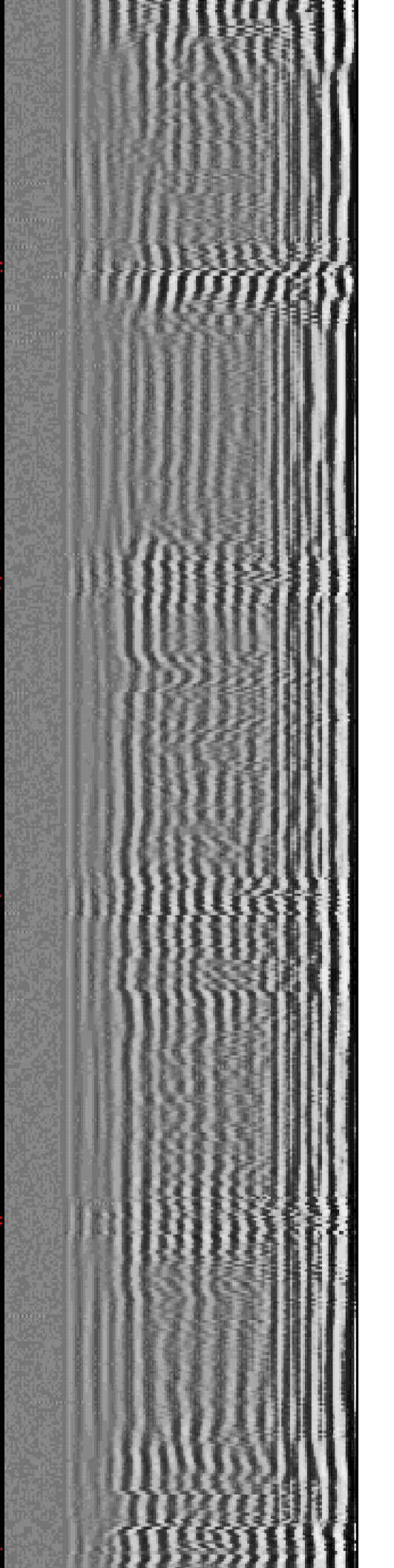
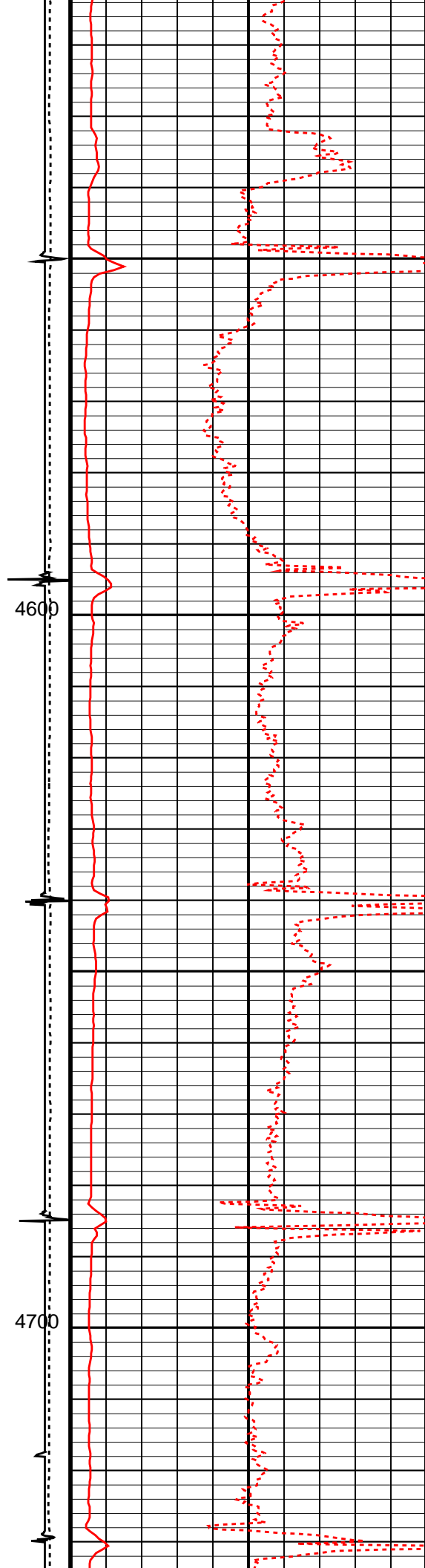
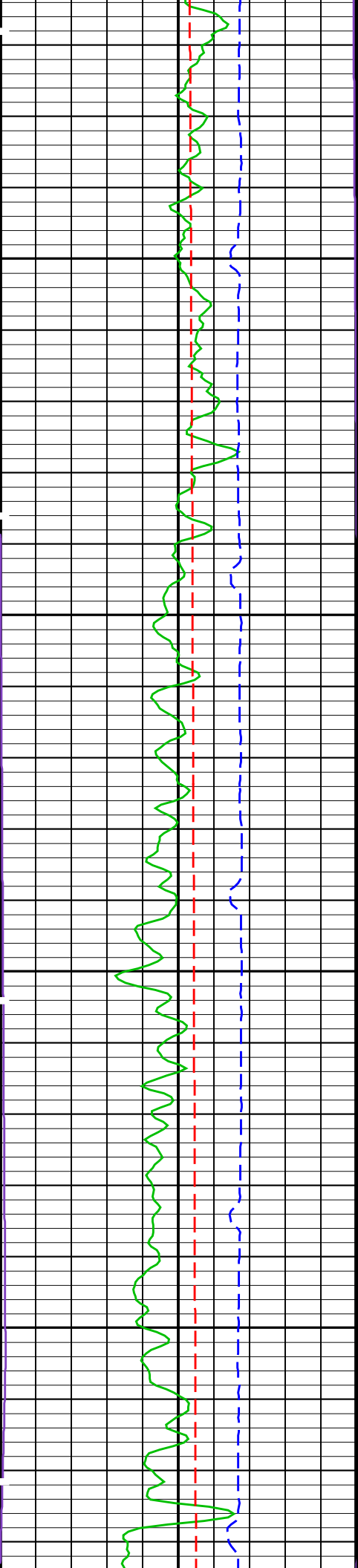




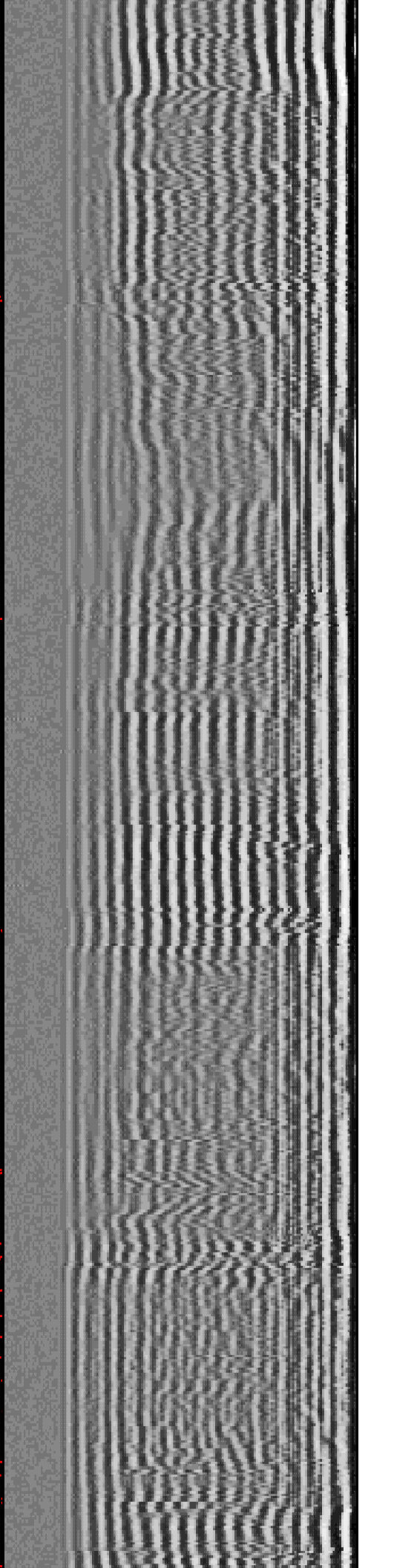
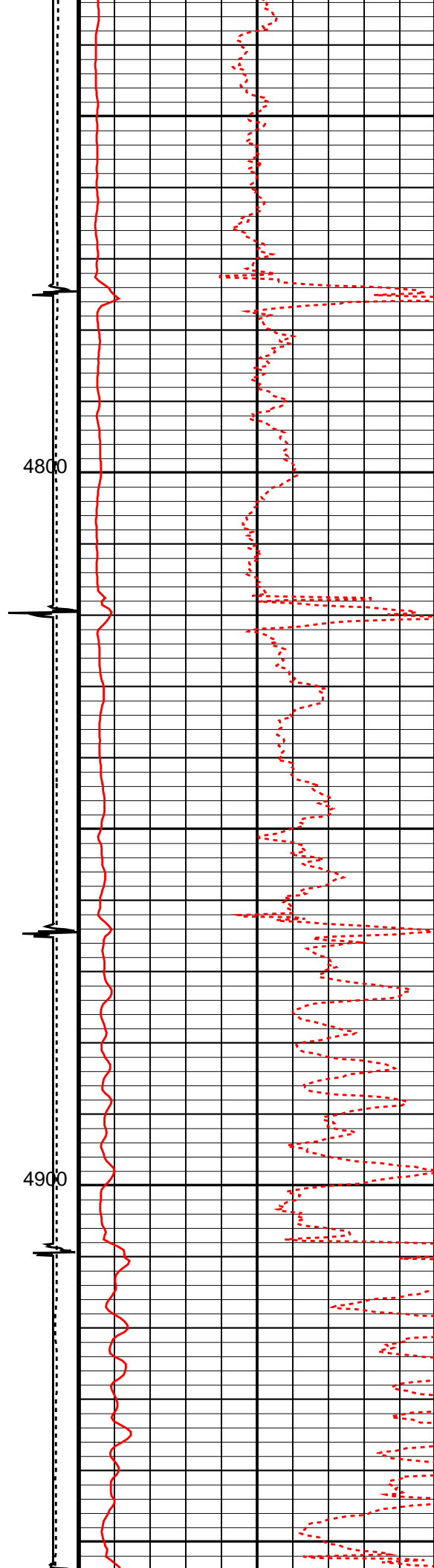
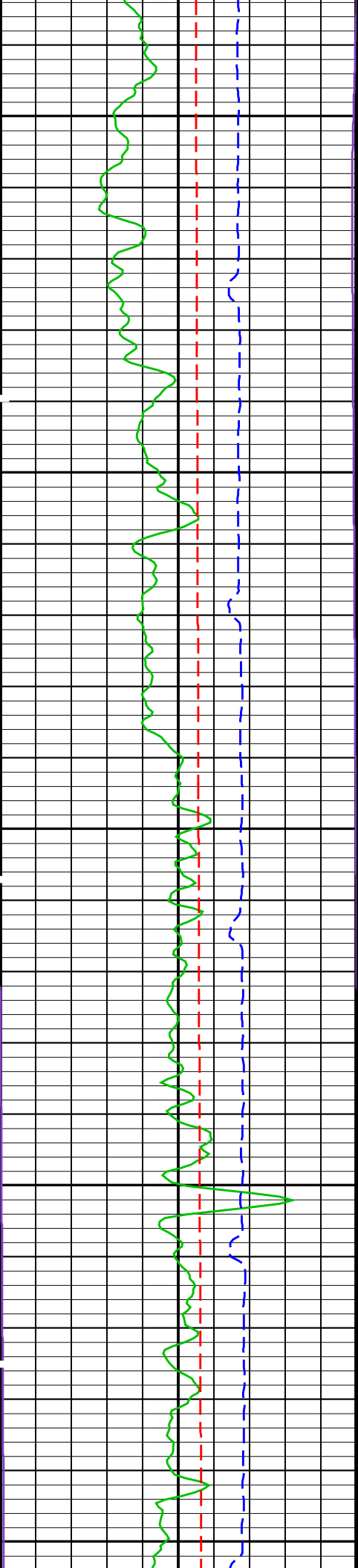


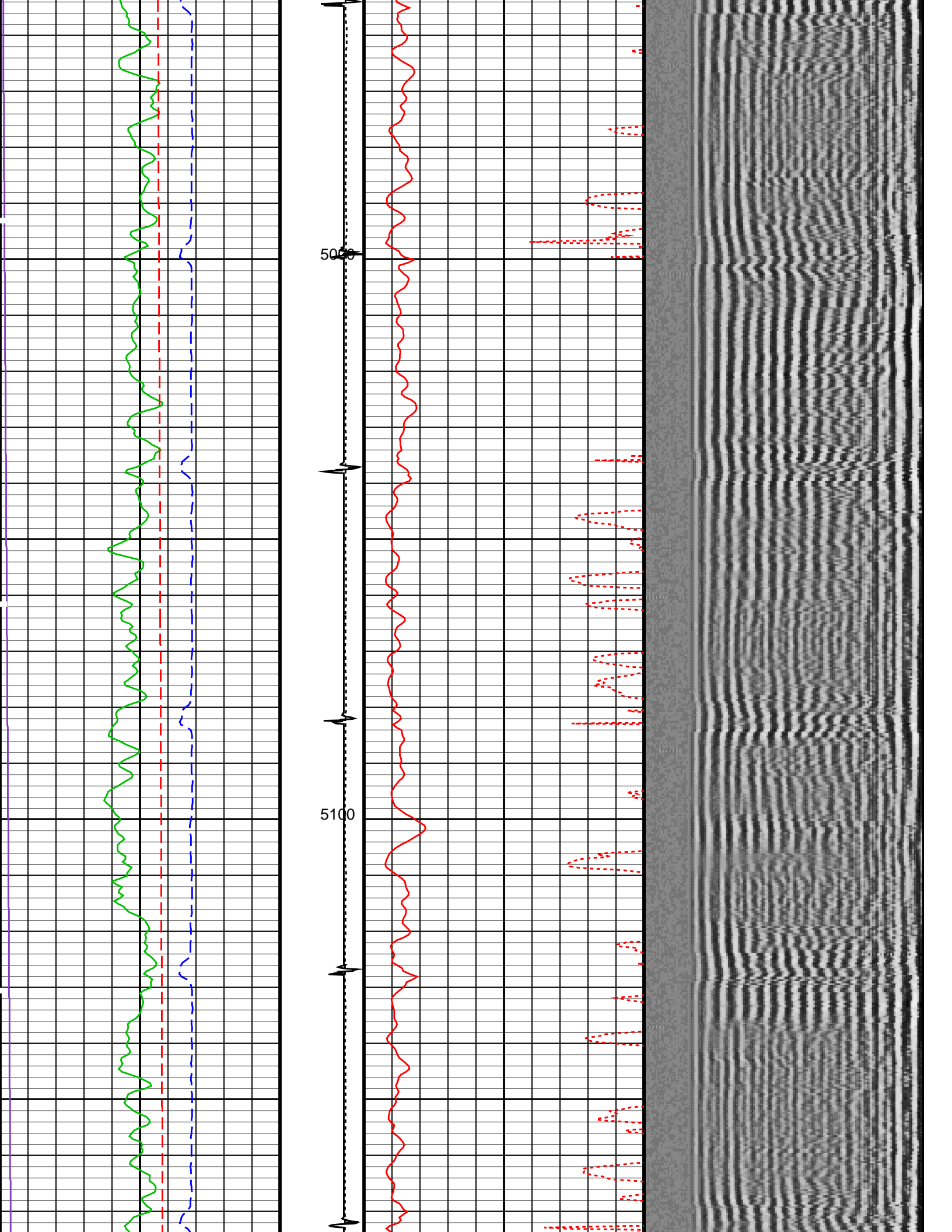


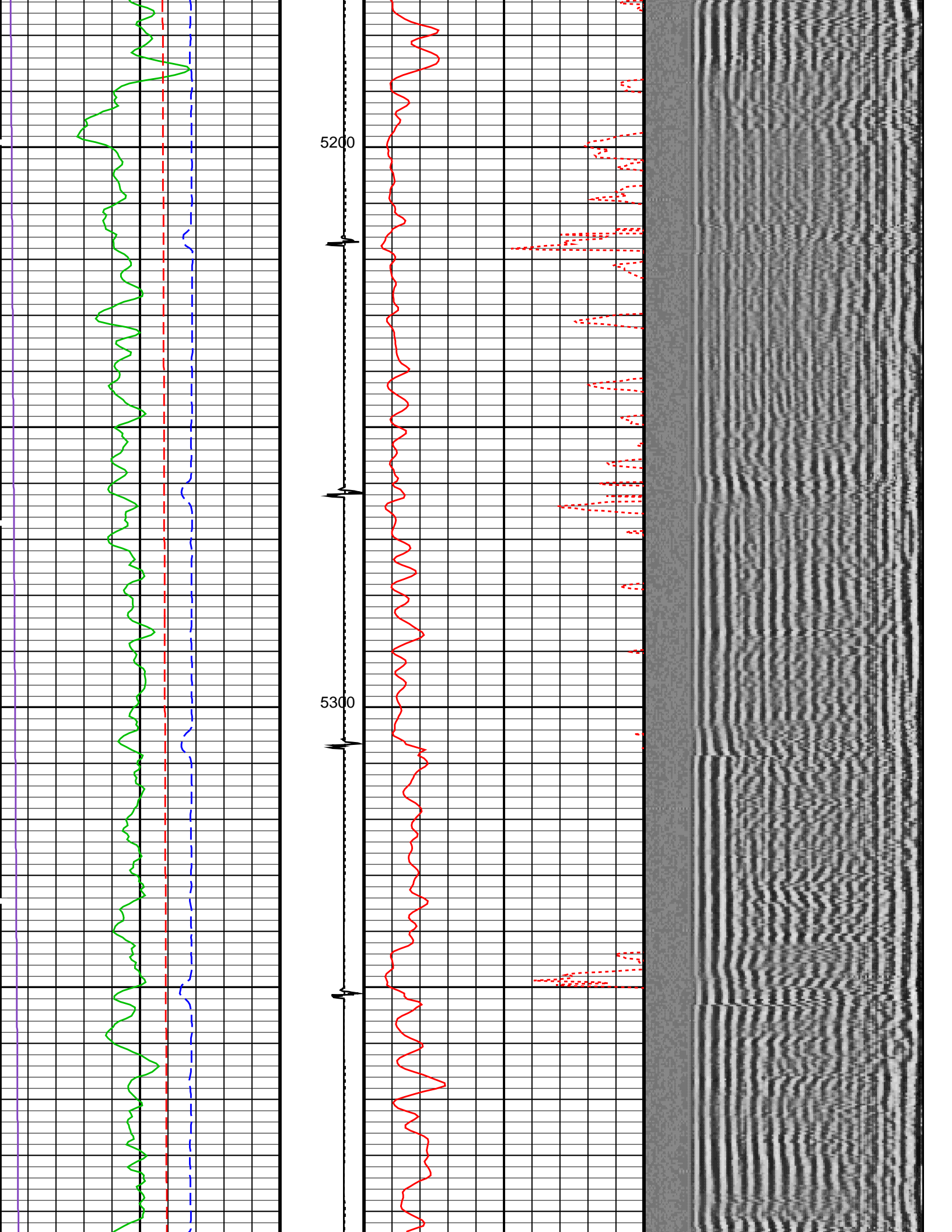


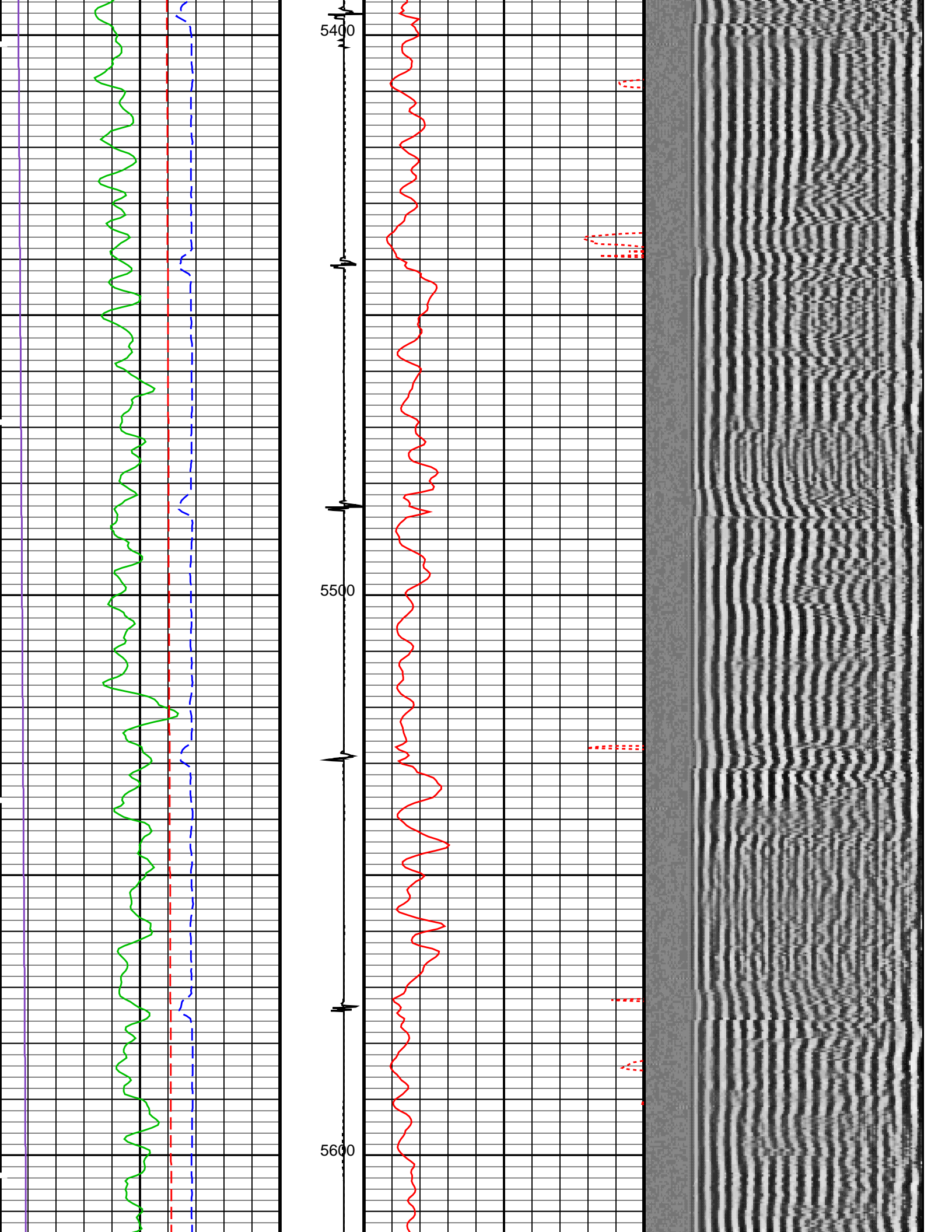




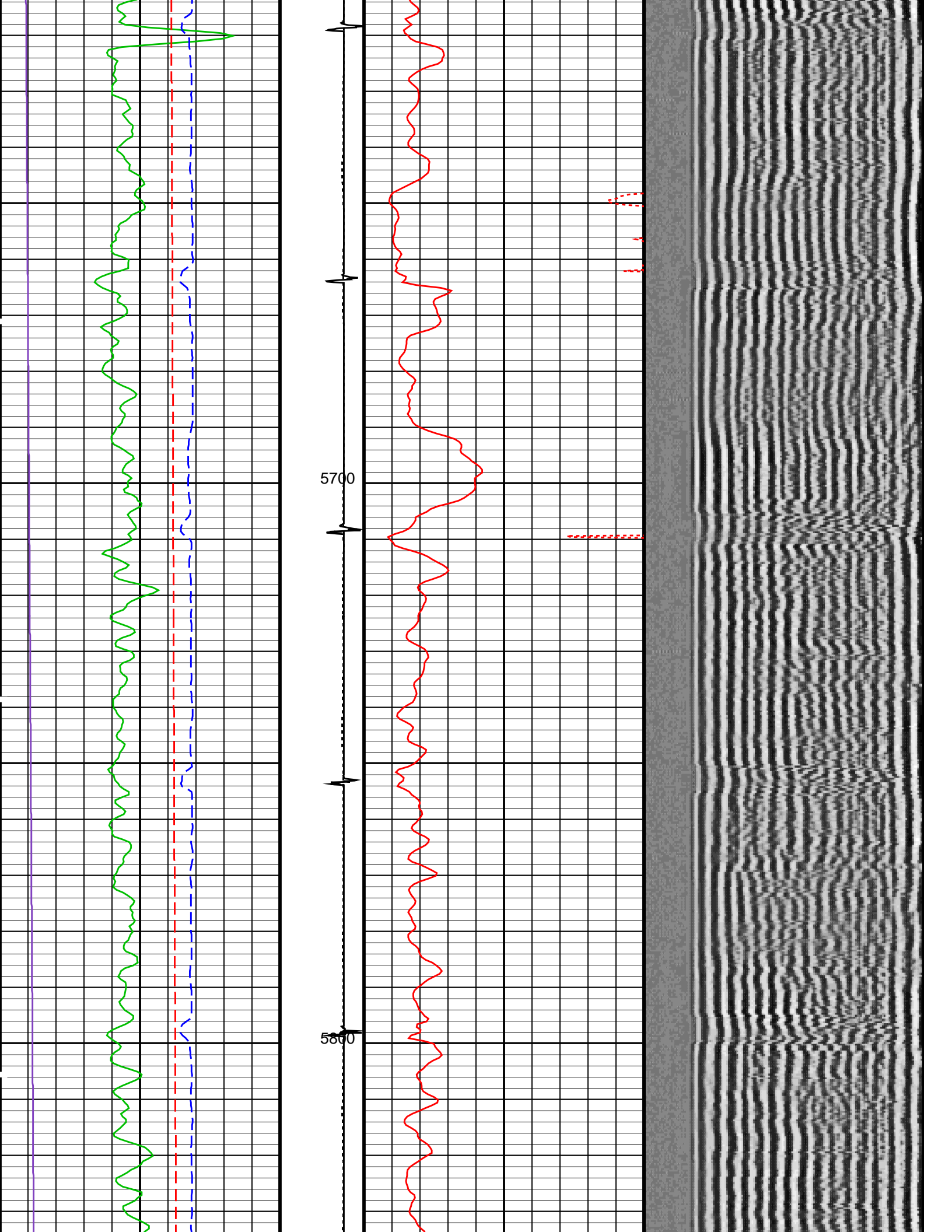


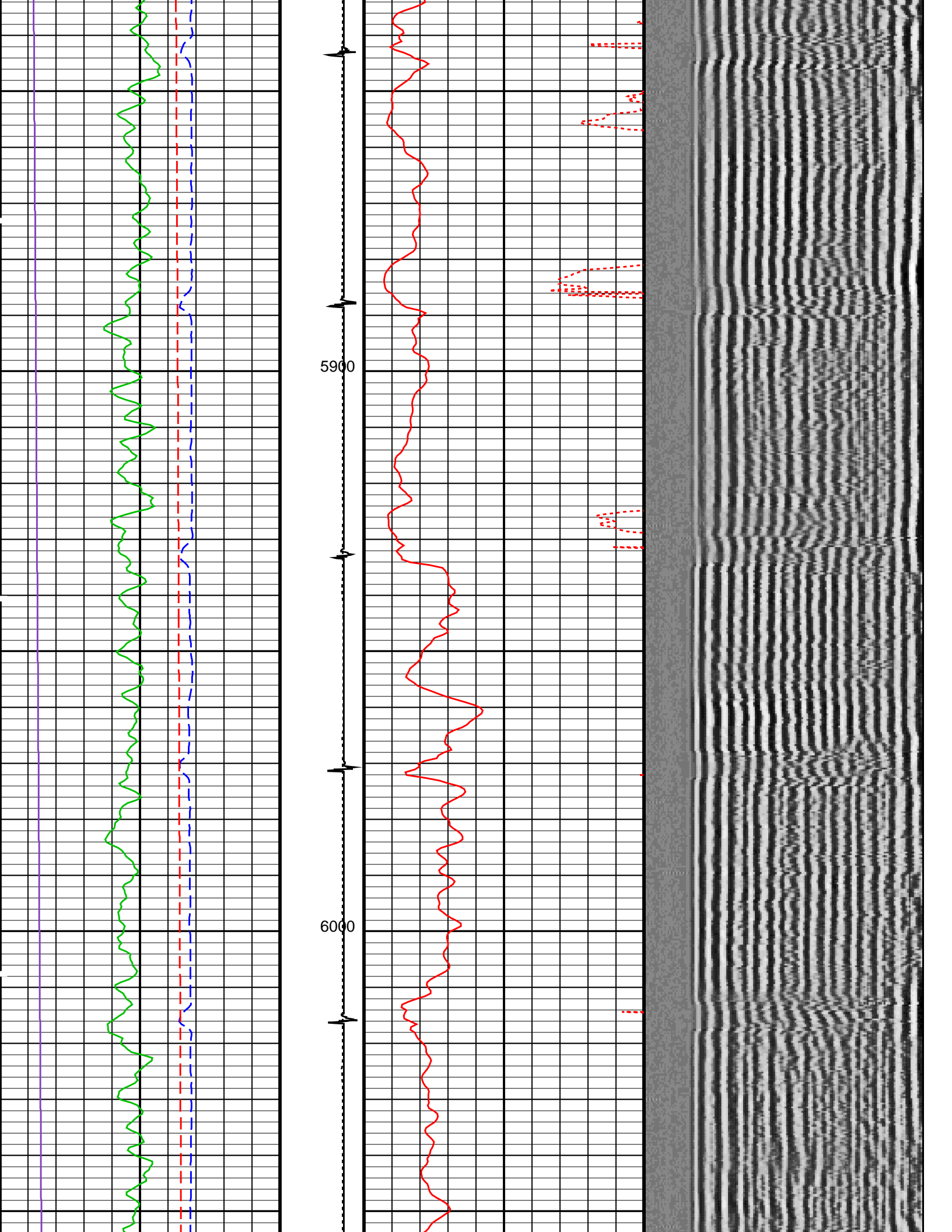


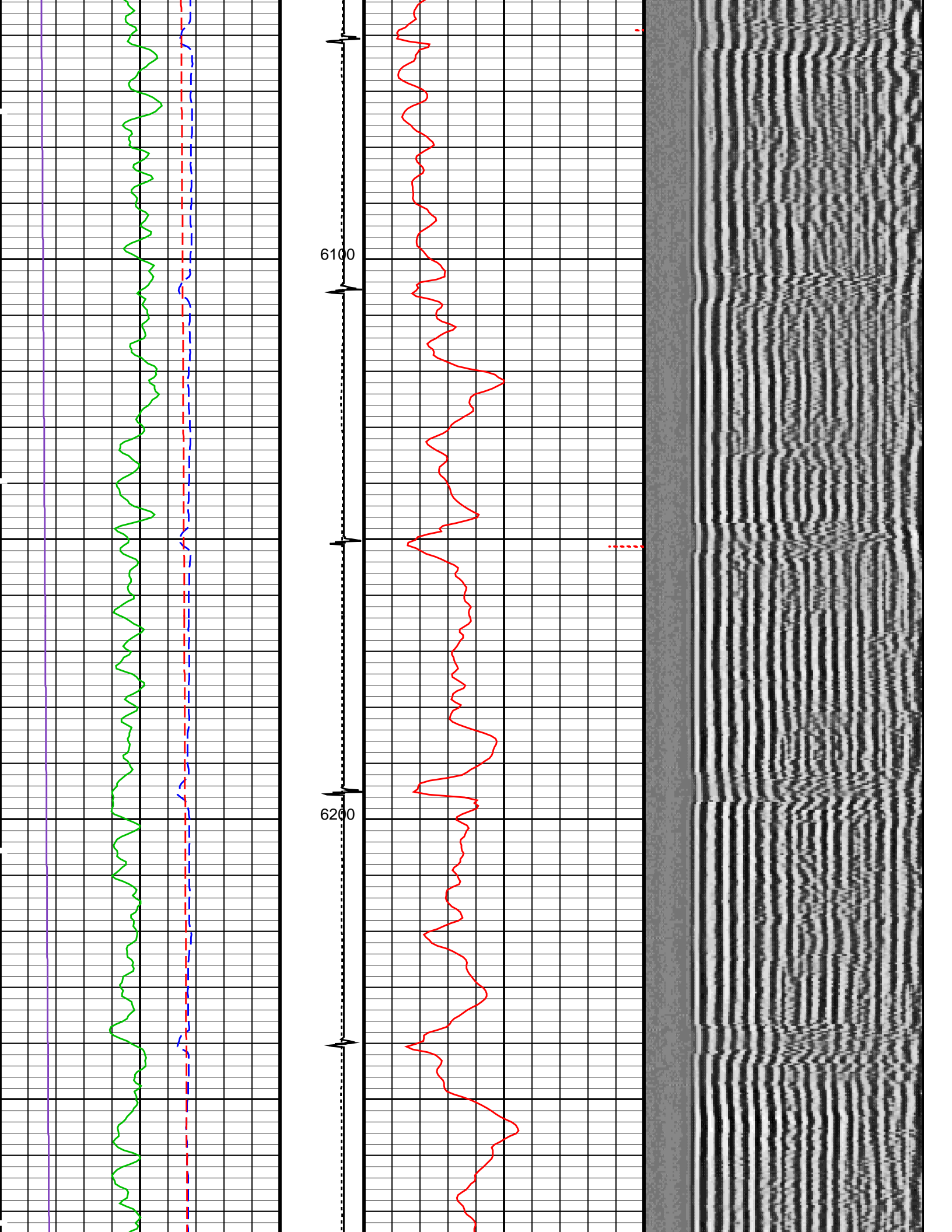


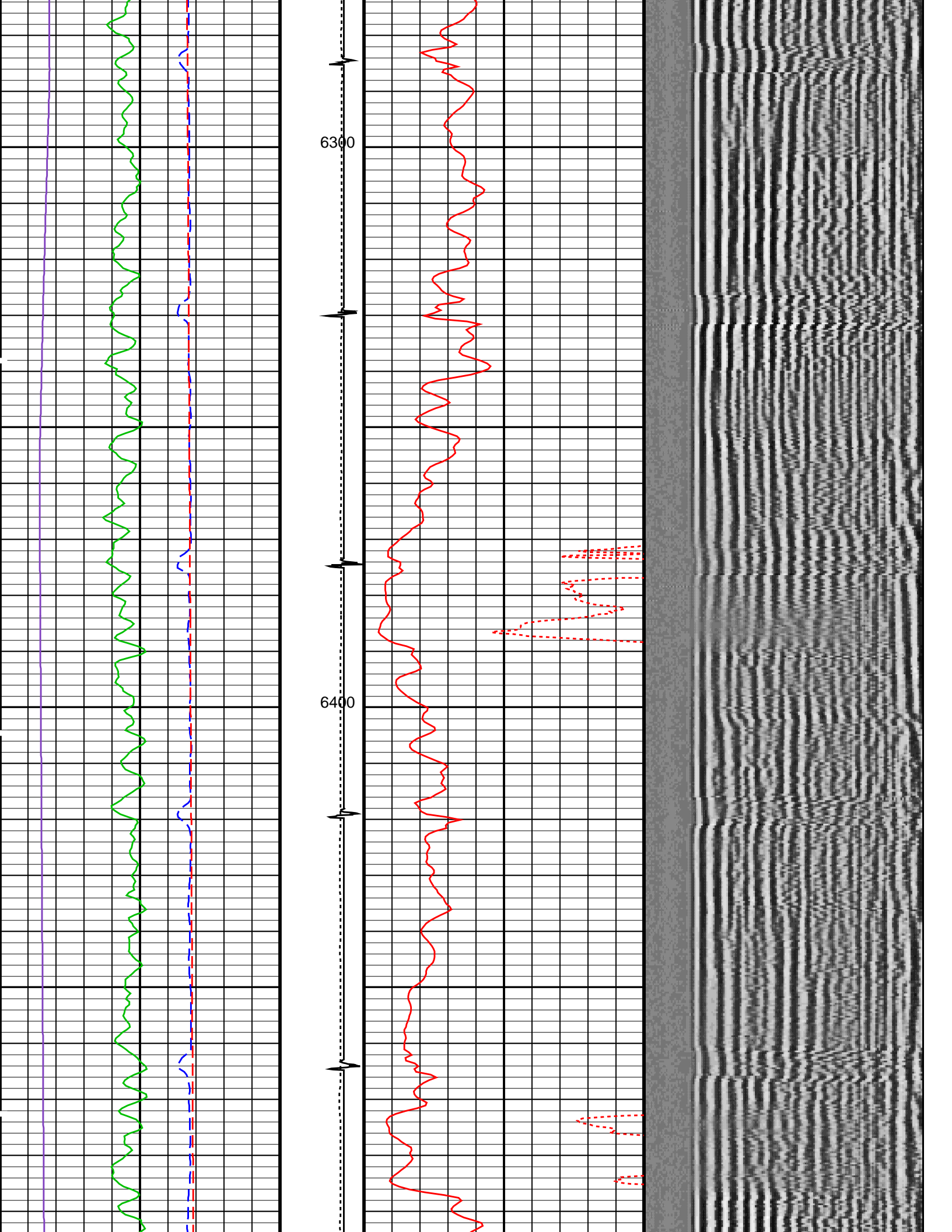




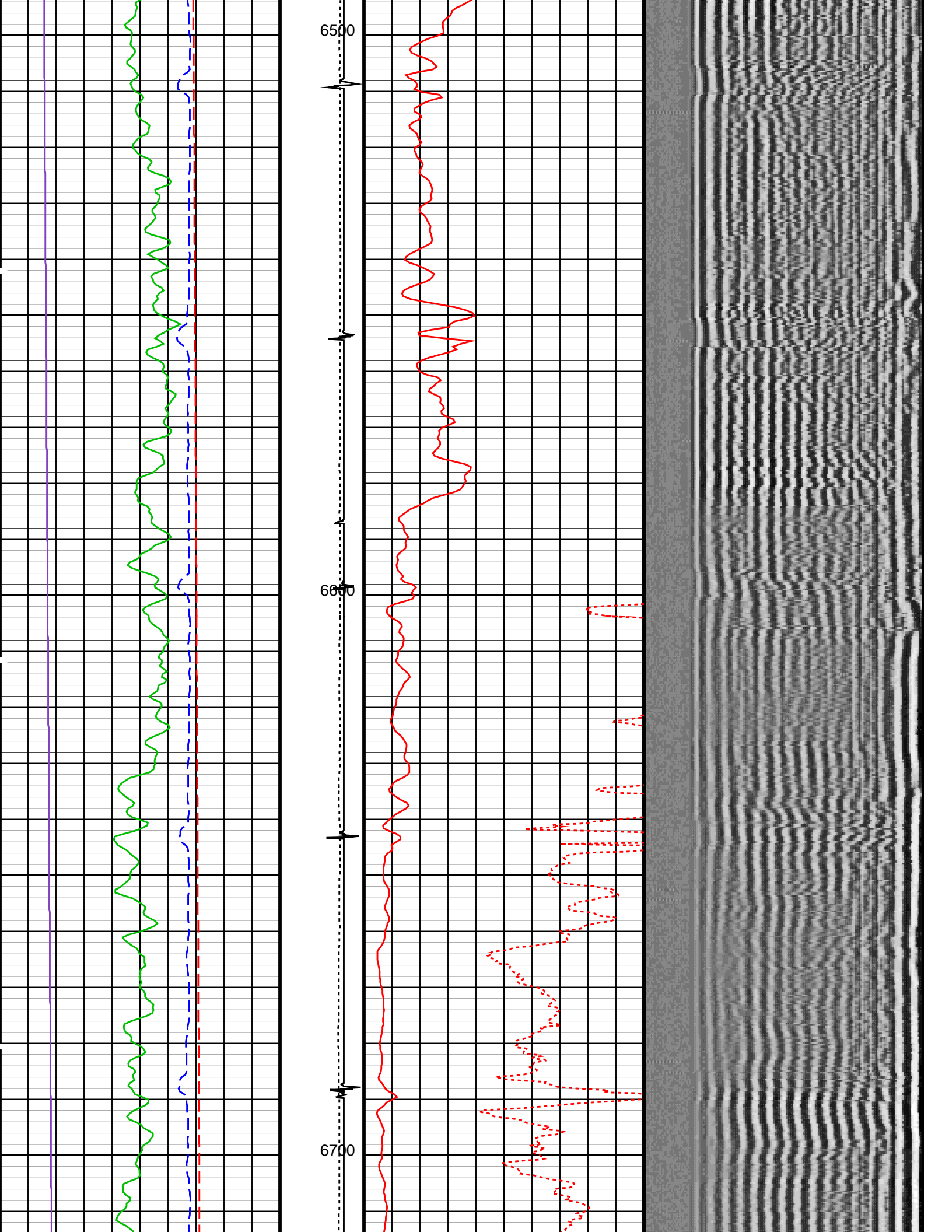




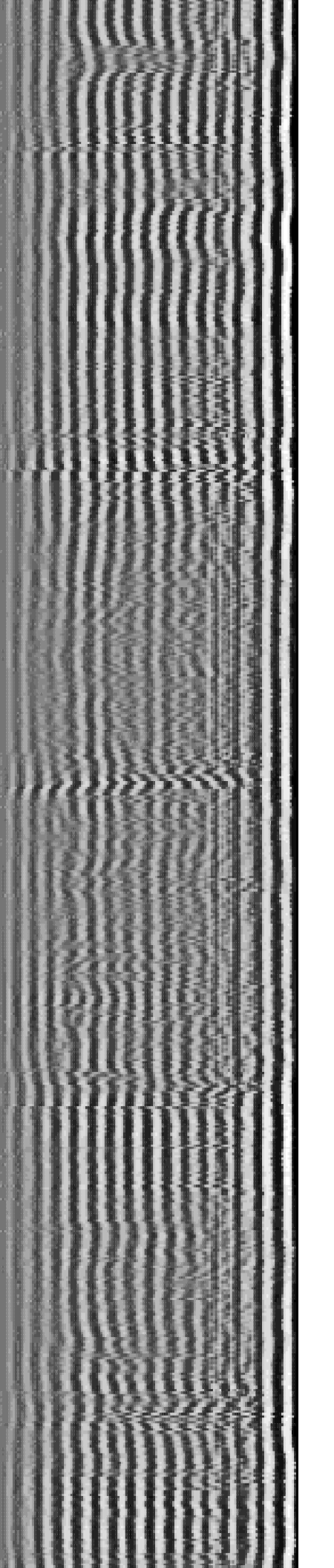
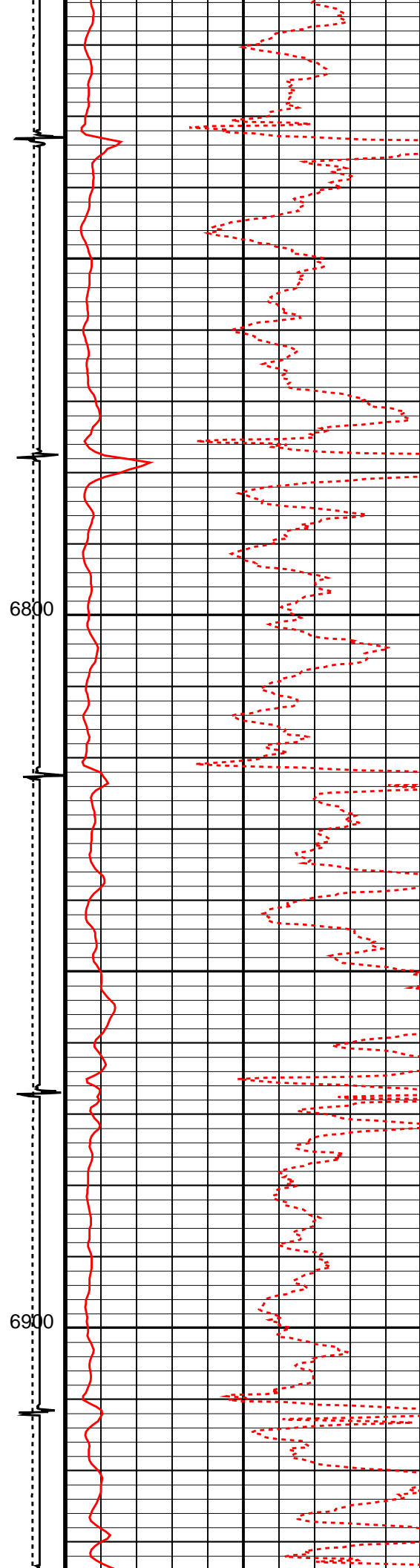
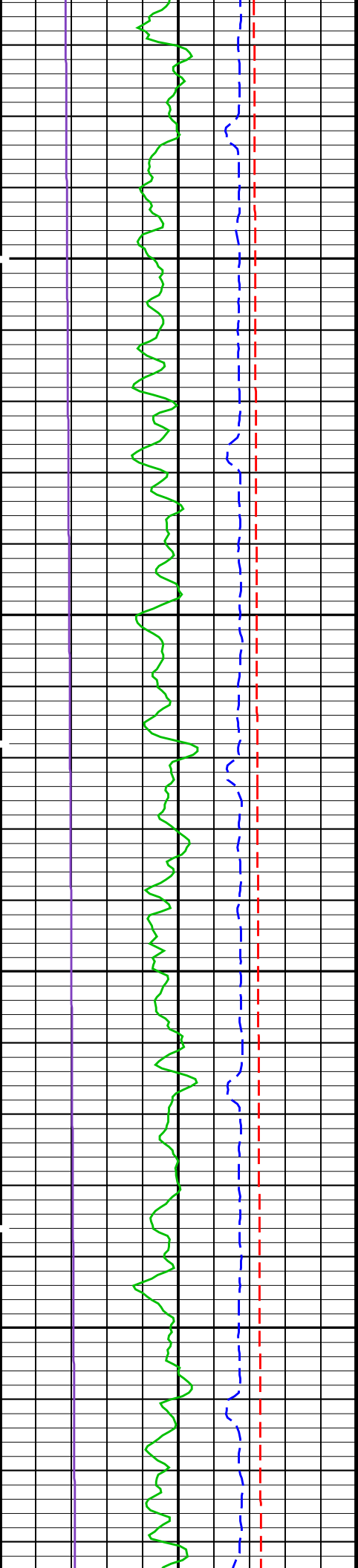


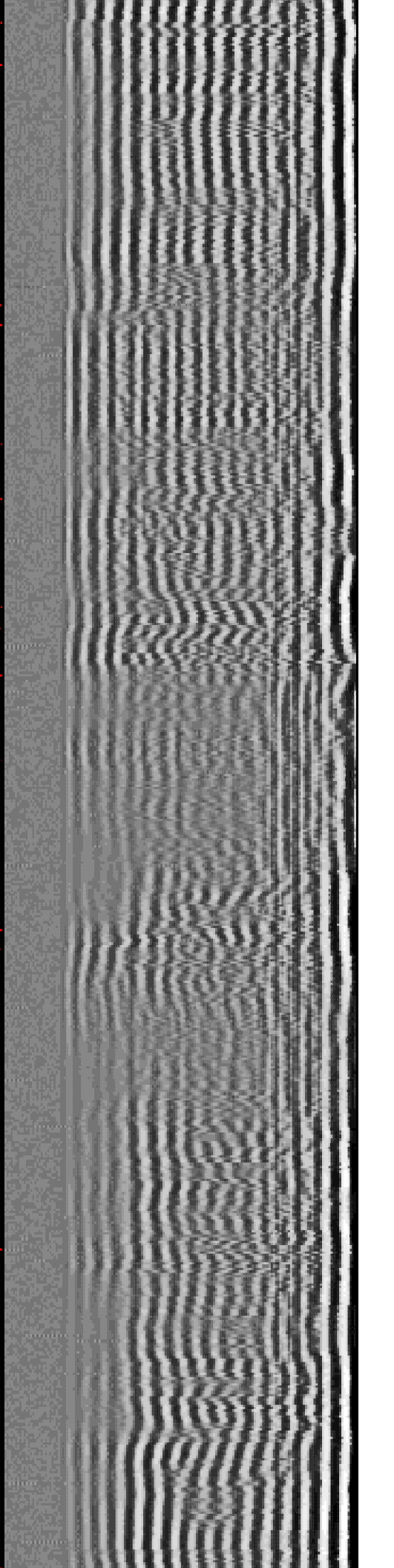
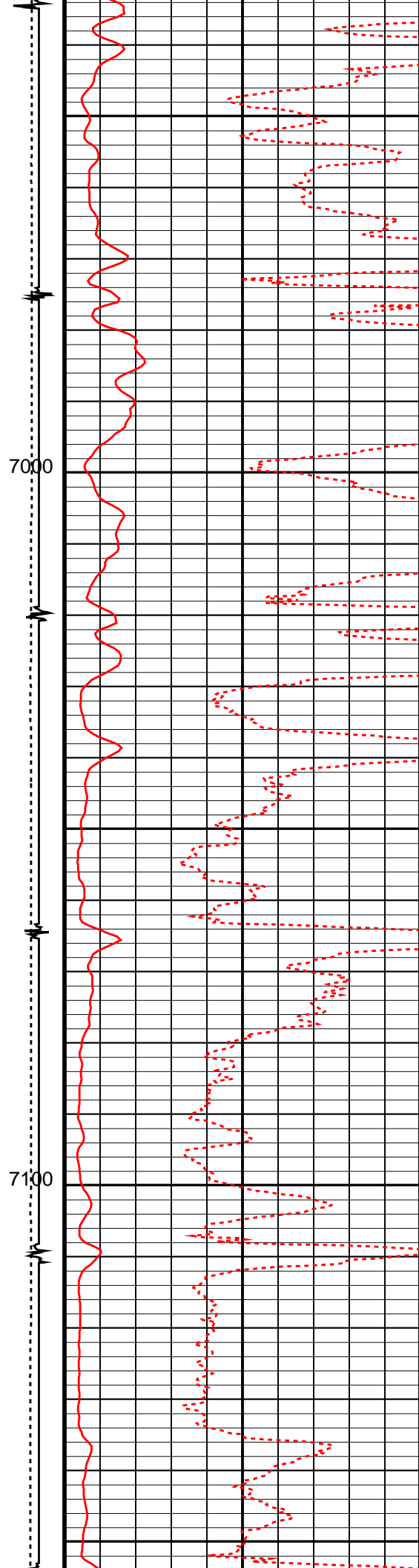
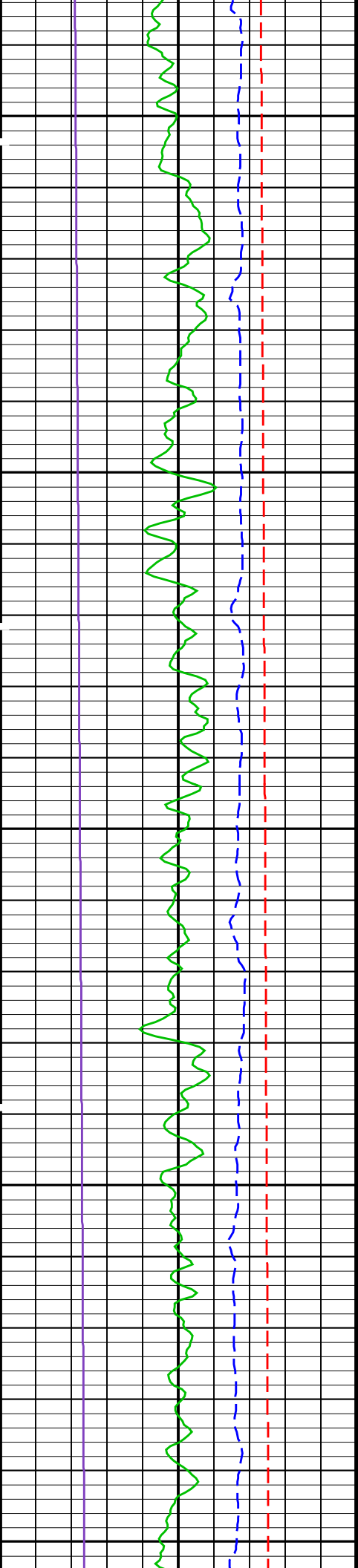


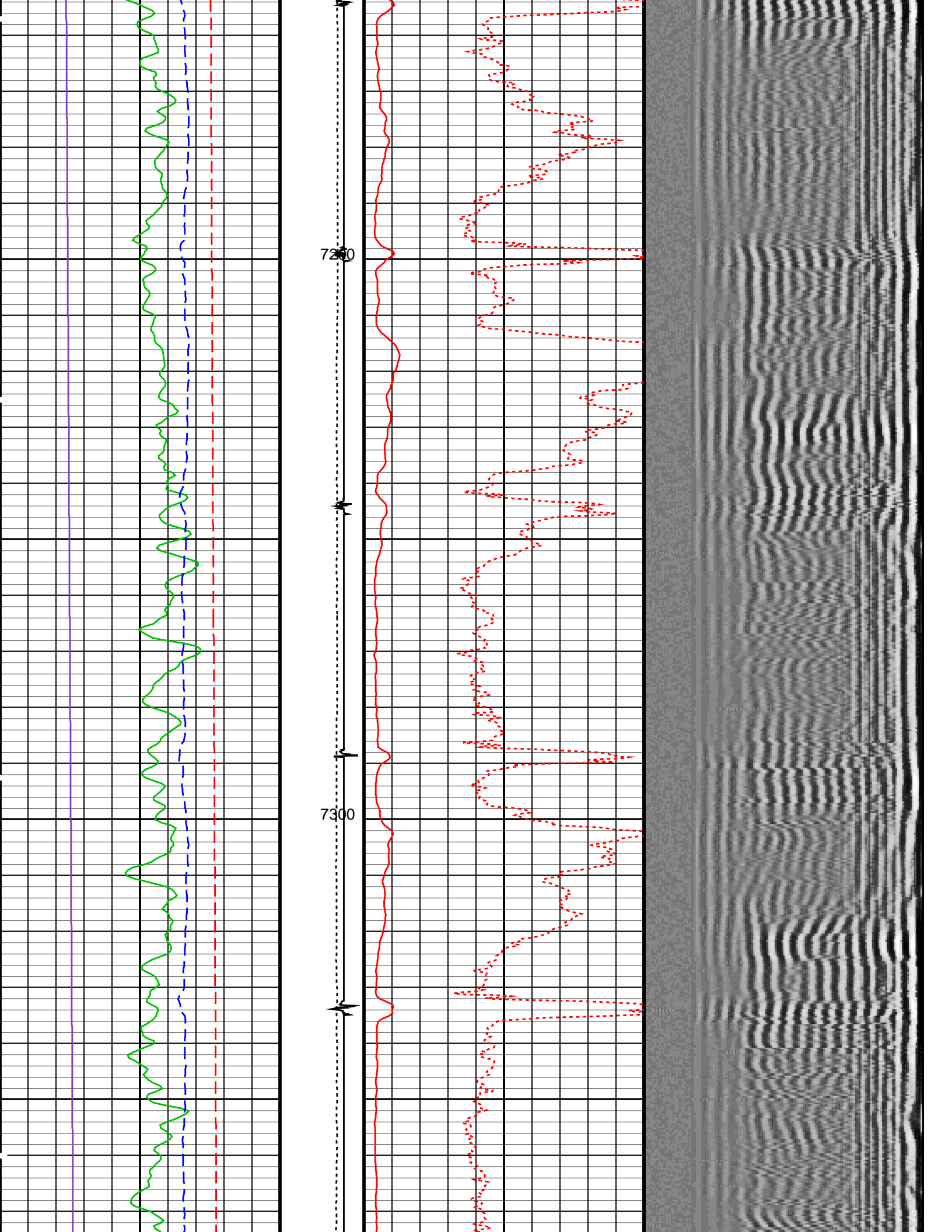


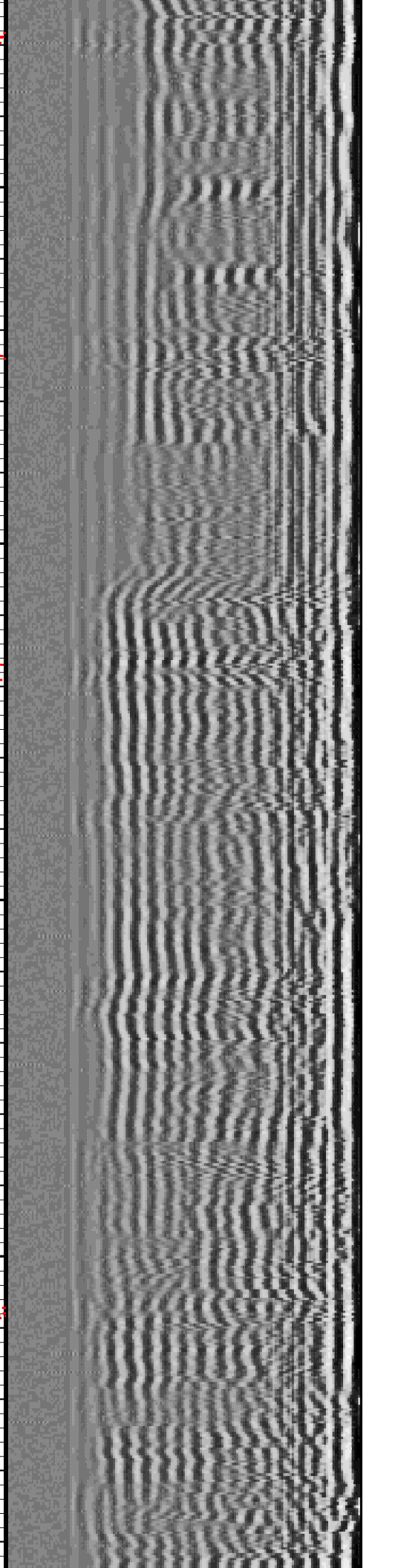
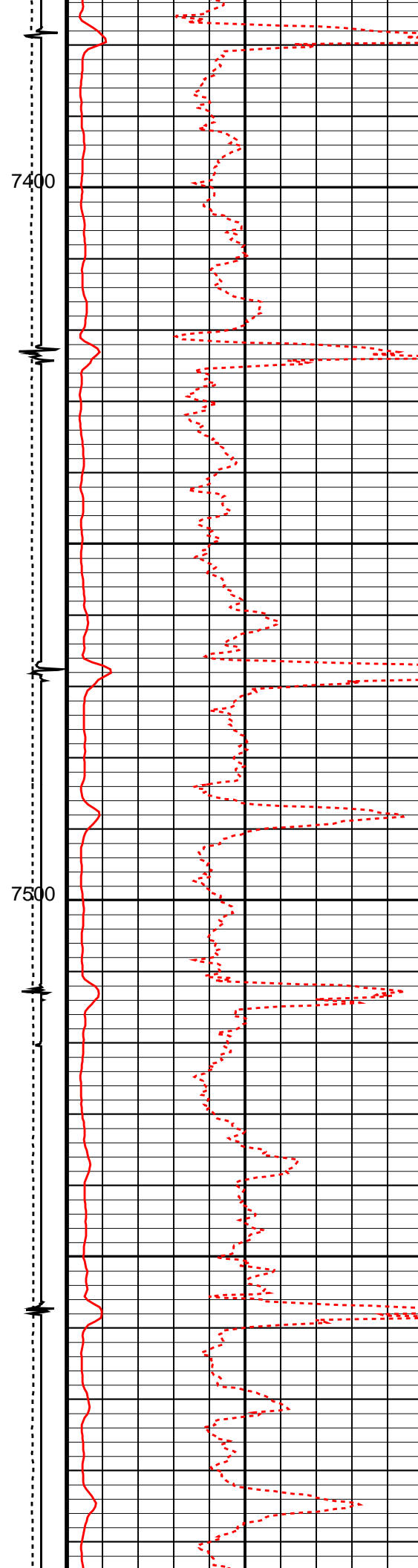
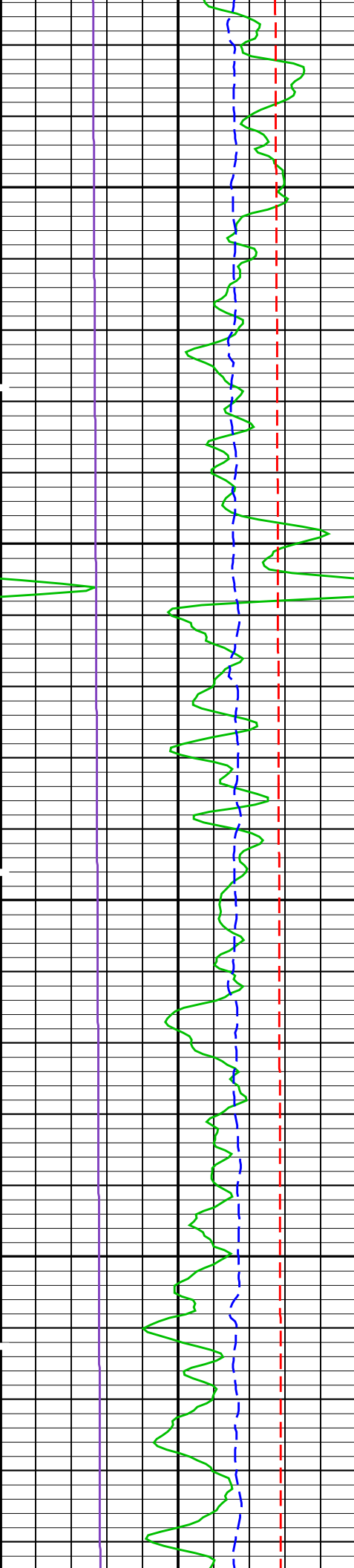




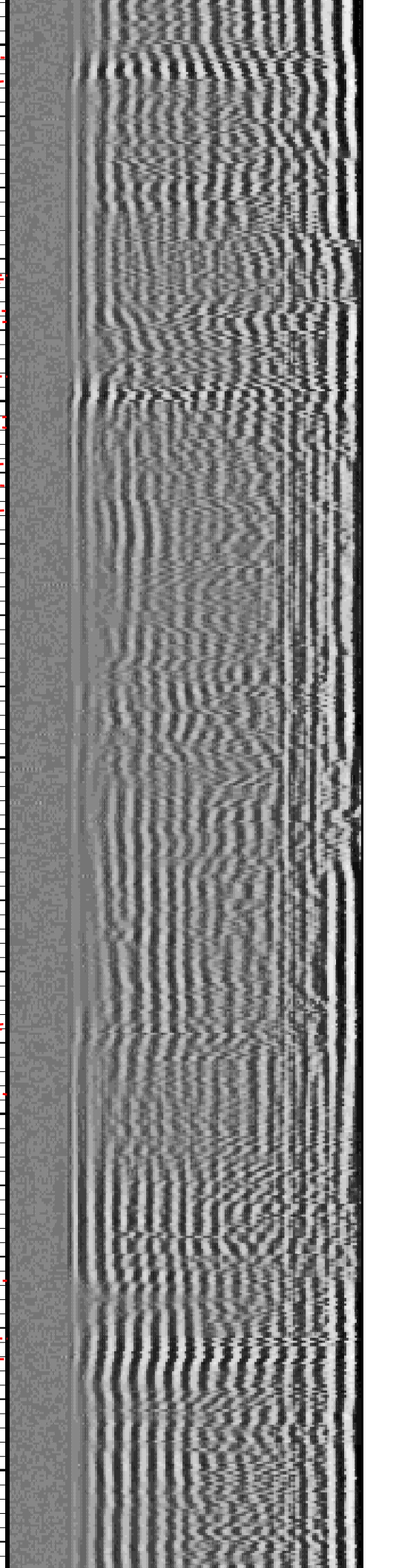
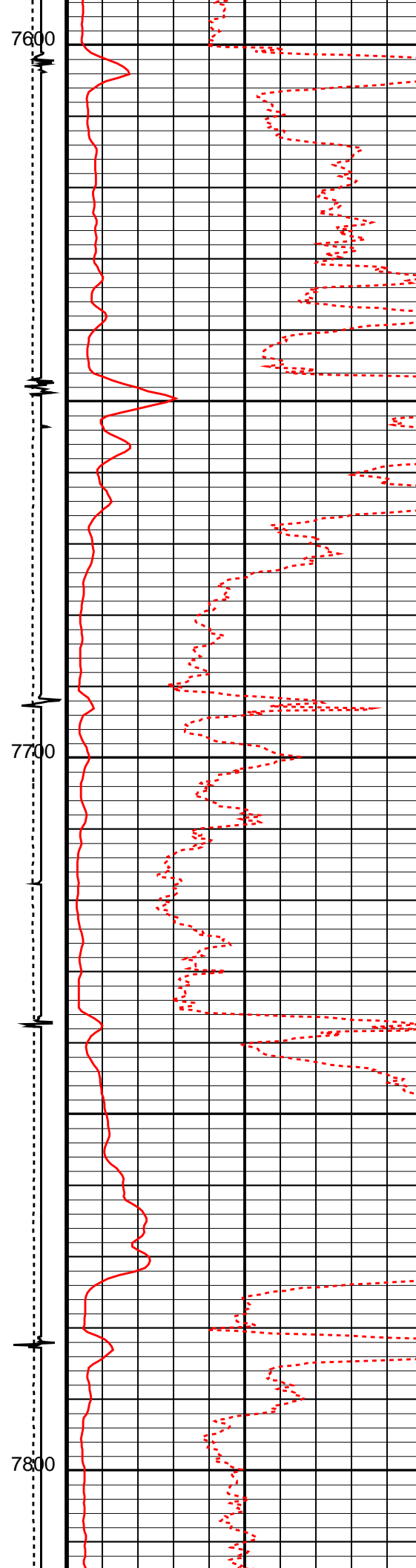
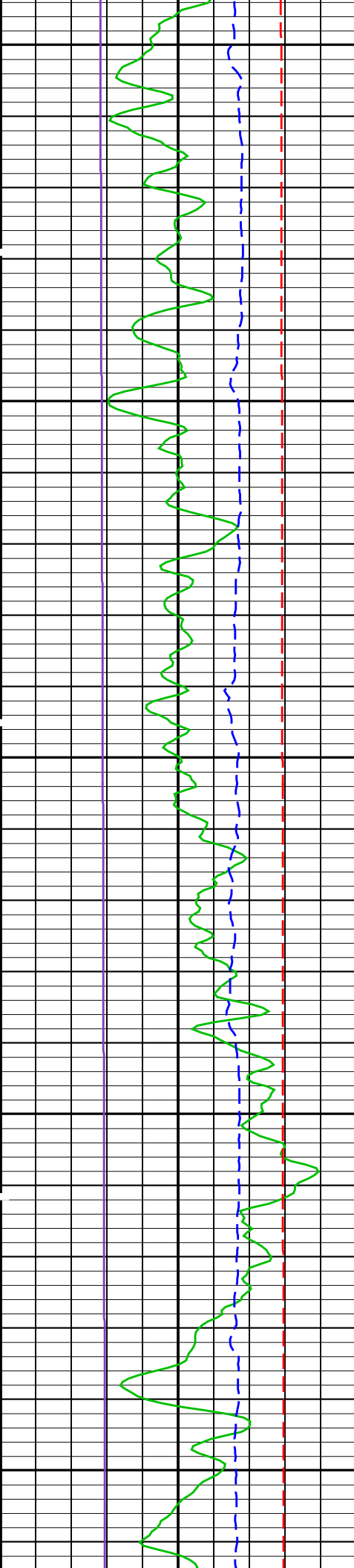




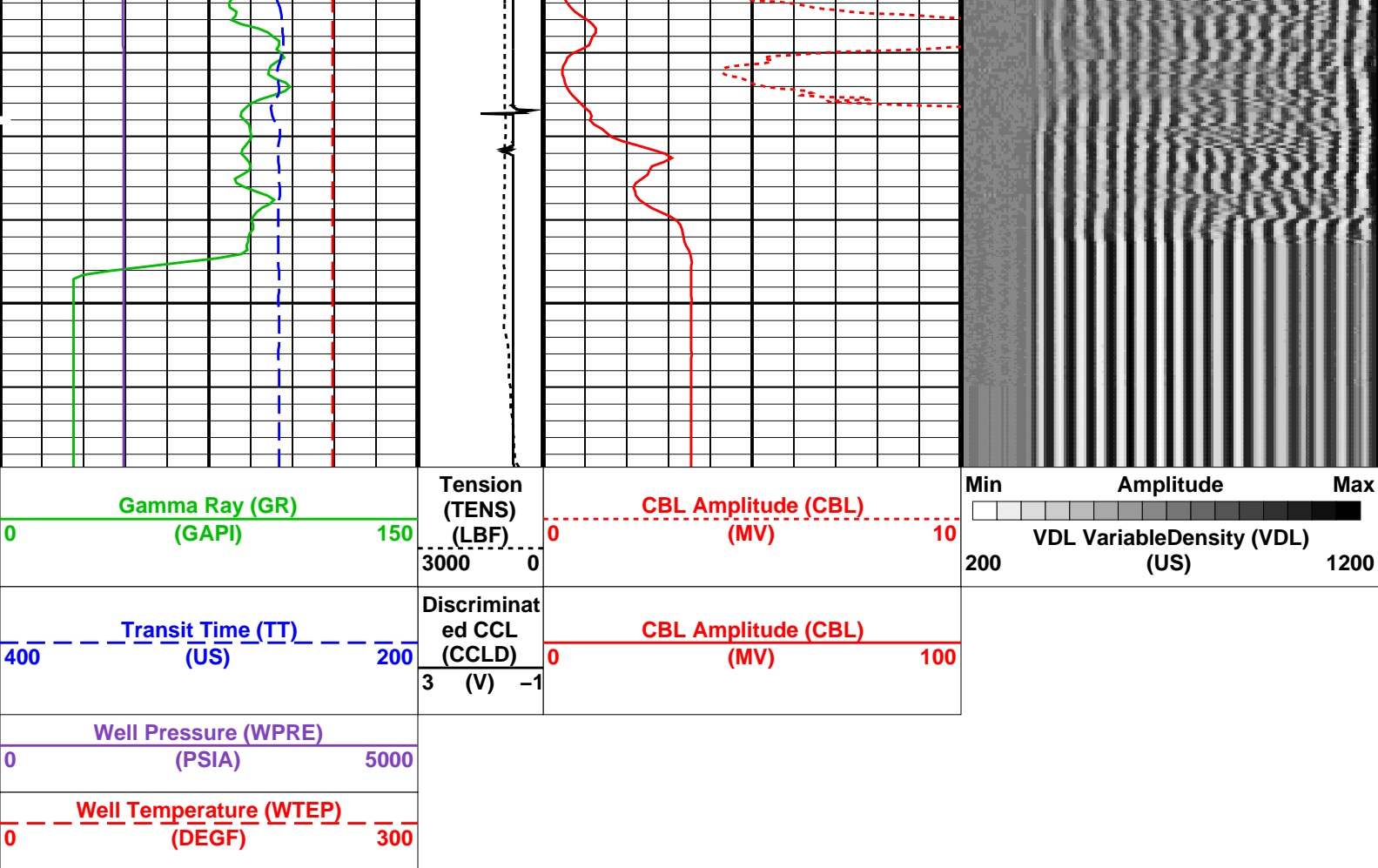












#### PIP SUMMARY

Time Mark Every 60 S

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

Graphics File Created: 12-Jul-2015 17:31

### OP System Version: 19C2-270

SCMT-CB 19C2-270 PSPT 19C2-270

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

Sonde Serial Number SCMS-CB 8284

Current Casing Size 5.50000 IN

Casing Weight 17.0 LB/F

Expected CBL Amplitude  
in Free Pipe Section 71 MV

Minimum Sonic Amplitude 1.15842 MV (100% Cement)  
2.63842 MV (80% Cement)  
MAP Minimum Sonic Amplitude 7.35072 MV (100% Cement)  
12.3898 MV (80% Cement)

#### Master Calibration (Normalization)

#### Before Calibration (Adjustment)

Date of Master Calibration 12-JUL-2007

CBL Correction Factor 0.0716233

CBL Adjustment Factor (CBAF) 1.0

MAP 1 Correction Factor 0.102087

MAP Adjustment Factor (MPAF) 1.0

MAP 2 Correction Factor 0.103149

MAP 3 Correction Factor 0.108331

MAP 4 Correction Factor 0.0974528

MAP 5 Correction Factor 0.0887865

MAP 6 Correction Factor 0.0755598

MAP 7 Correction Factor 0.0967715

MAP 8 Correction Factor 0.0896694

## 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	238.059	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	352.059	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	71	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTG	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.306128	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	2.63842	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	181.059	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	13.848	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	4.75	FT
MMSA	MAP Minimum Sonic Amplitude	7.35072	MV
MSA	Minimum Sonic Amplitude	1.15842	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	FT

### Input DLIS Files

DEFAULT	SCMT_PSP_005LUP	FN:4	PRODUCER	08-Jul-2015 16:12	7869.5 FT	69.5 FT
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### Output DLIS Files

DEFAULT	SCMT_PSP_004PUP	FN:3	PRODUCER	12-Jul-2015 17:31
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REPEAT PASS  
2500 PSI

MAXIS Field Log

Company: Anadarko

Well: Troudt 14N-33HZ

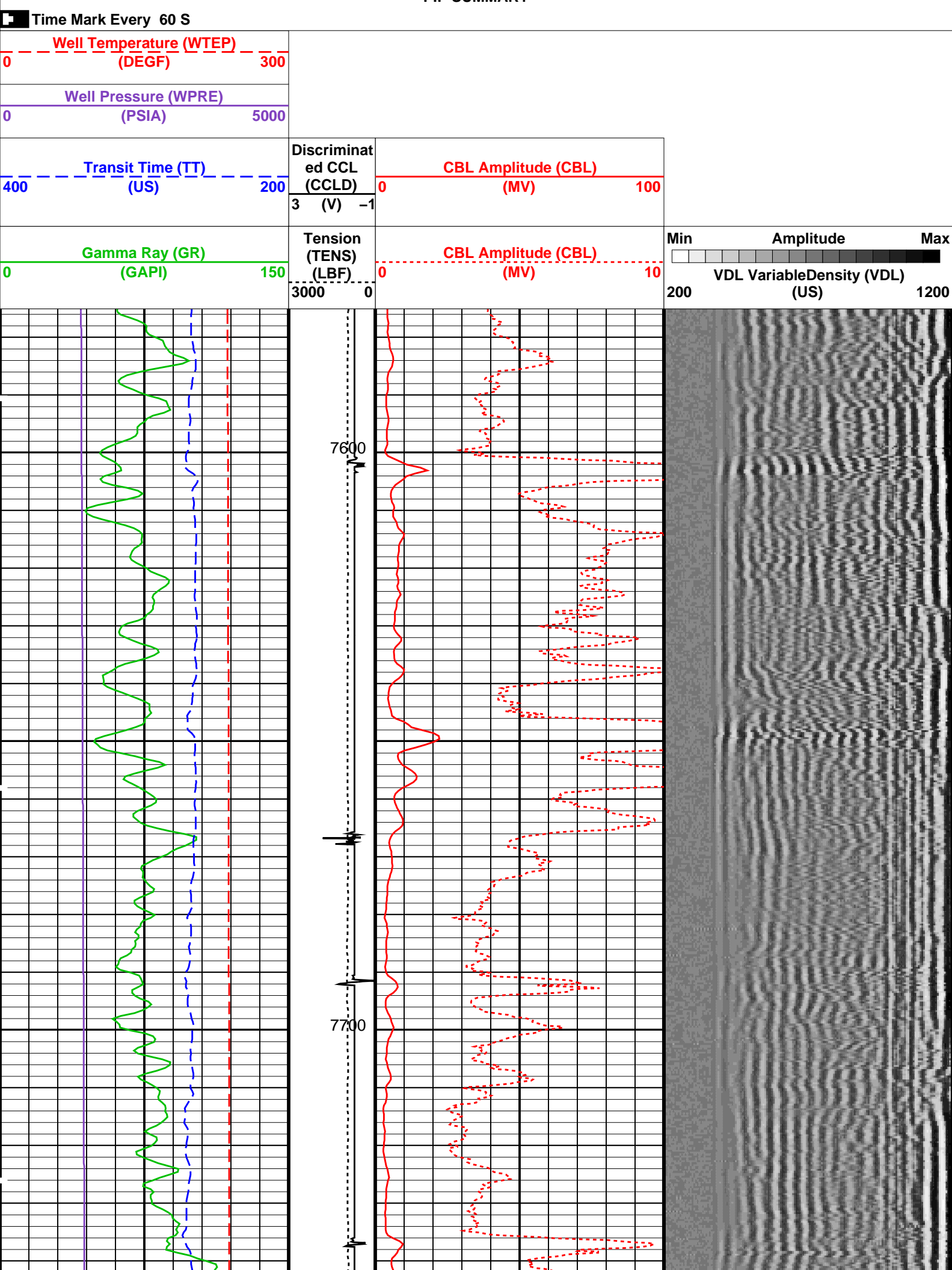
### Output DLIS Files

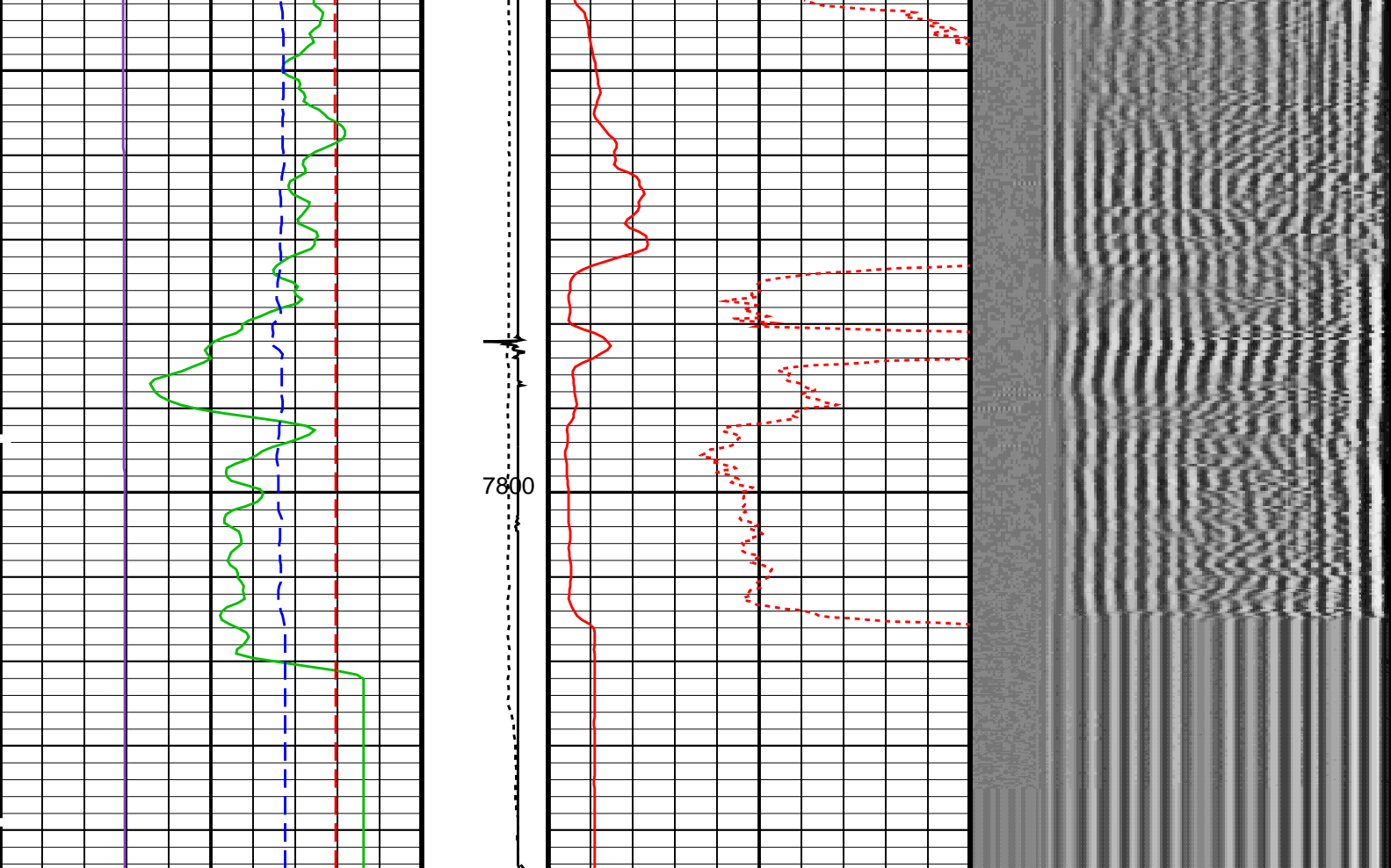
DEFAULT	SCMT_PSP_003LUP	FN:2	PRODUCER	08-Jul-2015 13:10	7844.5 FT	7575.0 FT
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OP System Version: 19C2-270

SCMT-CB	19C2-270	PSPT	19C2-270
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PIP SUMMARY





Gamma Ray (GR) (GAPI)	0	150	Tension (TENS) (LBF)	0	3000	CBL Amplitude (CBL) (MV)	0	10	Min	Amplitude	Max
Transit Time (TT) (US)	400	200	Discriminat ed CCL (CCLD)	0	3	CBL Amplitude (CBL) (MV)	0	100	200	VDL VariableDensity (VDL) (US)	1200
Well Pressure (WPRE) (PSIA)	0	5000	3 (V) -1								
Well Temperature (WTEP) (DEGF)	0	300									

#### PIP SUMMARY

Time Mark Every 60 S  
Format: CBL\_VDL Vertical Scale: 5" per 100' Graphics File Created: 08-Jul-2015 13:10

### OP System Version: 19C2-270

SCMT-CB 19C2-270 PSPT 19C2-270

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

Sonde Serial Number	SCMS-CB 8284		
Current Casing Size	5.50000 IN		
Casing Weight	17.0 LB/F		
Expected CBL Amplitude in Free Pipe Section	71 MV	Minimum Sonic Amplitude	1.15842 MV (100% Cement) 2.63842 MV (80% Cement)
		MAP Minimum Sonic Amplitude	7.35072 MV (100% Cement) 12.3898 MV (80% Cement)

Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	12-JUL-2007		
CBL Correction Factor	0.0716233	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.102087	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.103149		
MAP 3 Correction Factor	0.108331		
MAP 4 Correction Factor	0.0974528		
MAP 5 Correction Factor	0.0887865		
MAP 6 Correction Factor	0.0755598		
MAP 7 Correction Factor	0.0967715		
MAP 8 Correction Factor	0.0896694		

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	238.059	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	352.059	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	71	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.306128	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.924277	
GOBO	Good Bond	2.63842	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	181.059	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	13.848	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	4.75	FT
MMSA	MAP Minimum Sonic Amplitude	7.35072	MV
MSA	Minimum Sonic Amplitude	1.15842	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
TD	Total Depth	-50000	FT

Output DLIS Files			
DEFAULT	SCMT_PSP_003LUP	FN:2	PRODUCER 08-Jul-2015 13:10

Company:	Anadarko	E&P Wireline
Well:	Troudt 14N-33HZ	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
CBL, VDL, GR, CCL, TEMP, PRES		