

# Rockhopper-1 ST1 DSI\*

DT Compressional & Shear QC

\* A Mark of Schlumberger

Using the following logs:

FMI-DSI

COMPANY:

Origin Energy Resources Ltd

WELL:

Rockhopper-1 ST1

FIELD:

Rockhopper

Rig:

Kan Tan IV

State:

TAS

COUNTRY:

Australia

Date Logged:

8-Feb-2010

Date Processed:

17-Apr-2010

Well Location:

T/18P Bass Basin

Elevations:

DF: 26m

GL: -74.3m

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

Field Recording:	Location: AUNB	Software Version: 17C0-154	Engineer: P.Guzman/ T. Ngartam
Office Recording:	ICS Center: DCS Perth	Baseline: GF_4.4_DC5	Log Analyst: K.Wijaya

Mud and Borehole Measurements:			
Rm @ Measured Temperature: 0.1001ohm.m @ 24.1degC	BHT: 140degC	Bitsize: 8.5in	
Rmf @ Measured Temperature: 0.0854ohm.m @ 23.9degC	Type Fluid in Hole:	KCl/Polymer	
Rmc @ Measured Temperature: 0.217ohm.m @ 24degC	Mud Density: 1.12637g/cm3		

Remarks:

Rockhopper-1 ST1 is a deviated well located in T/18P in the Bass Basin.

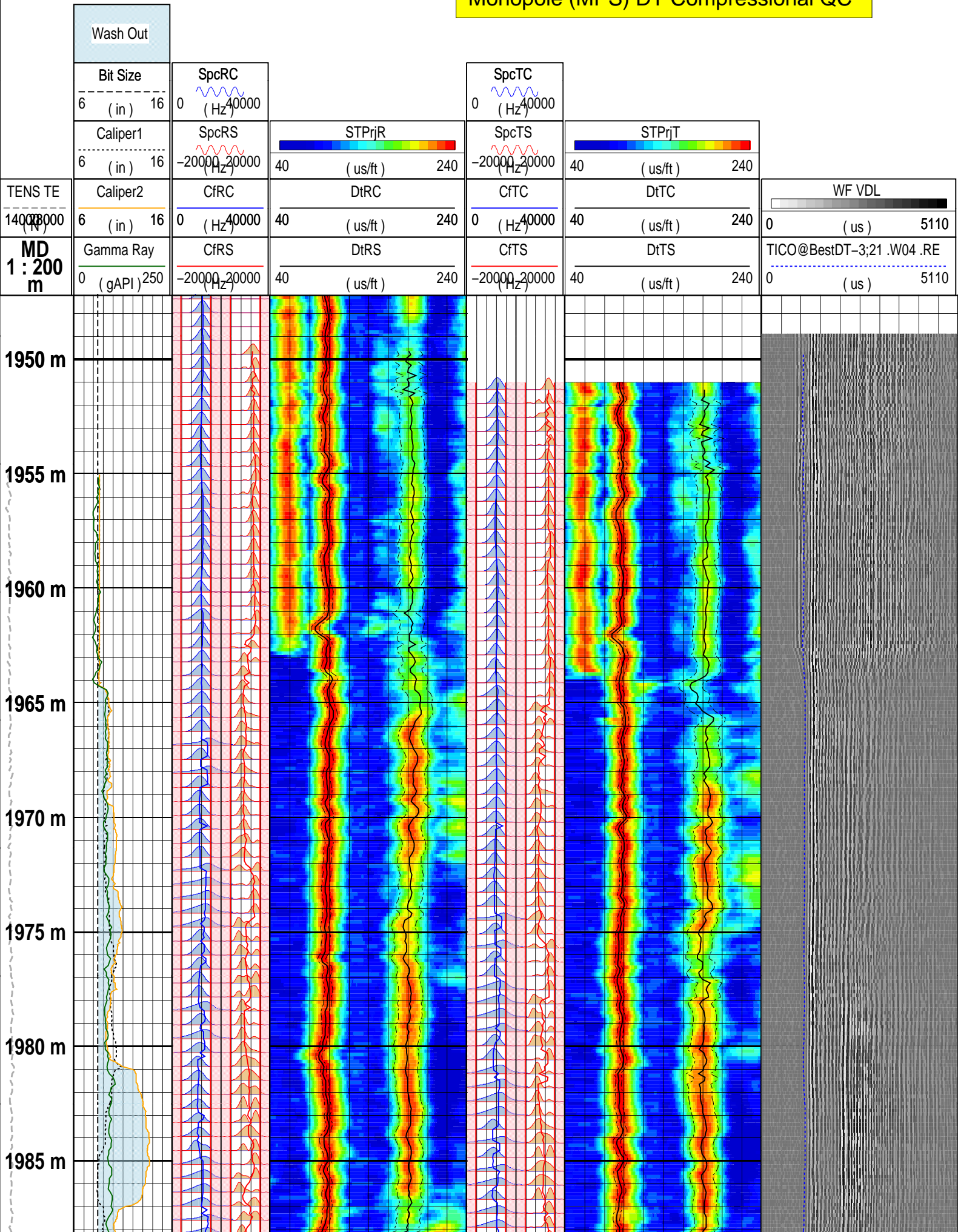
Monopole (MPS) data is used to process DT Compressional.

Upper Dipole (UDP) data is used to process DT Shear.

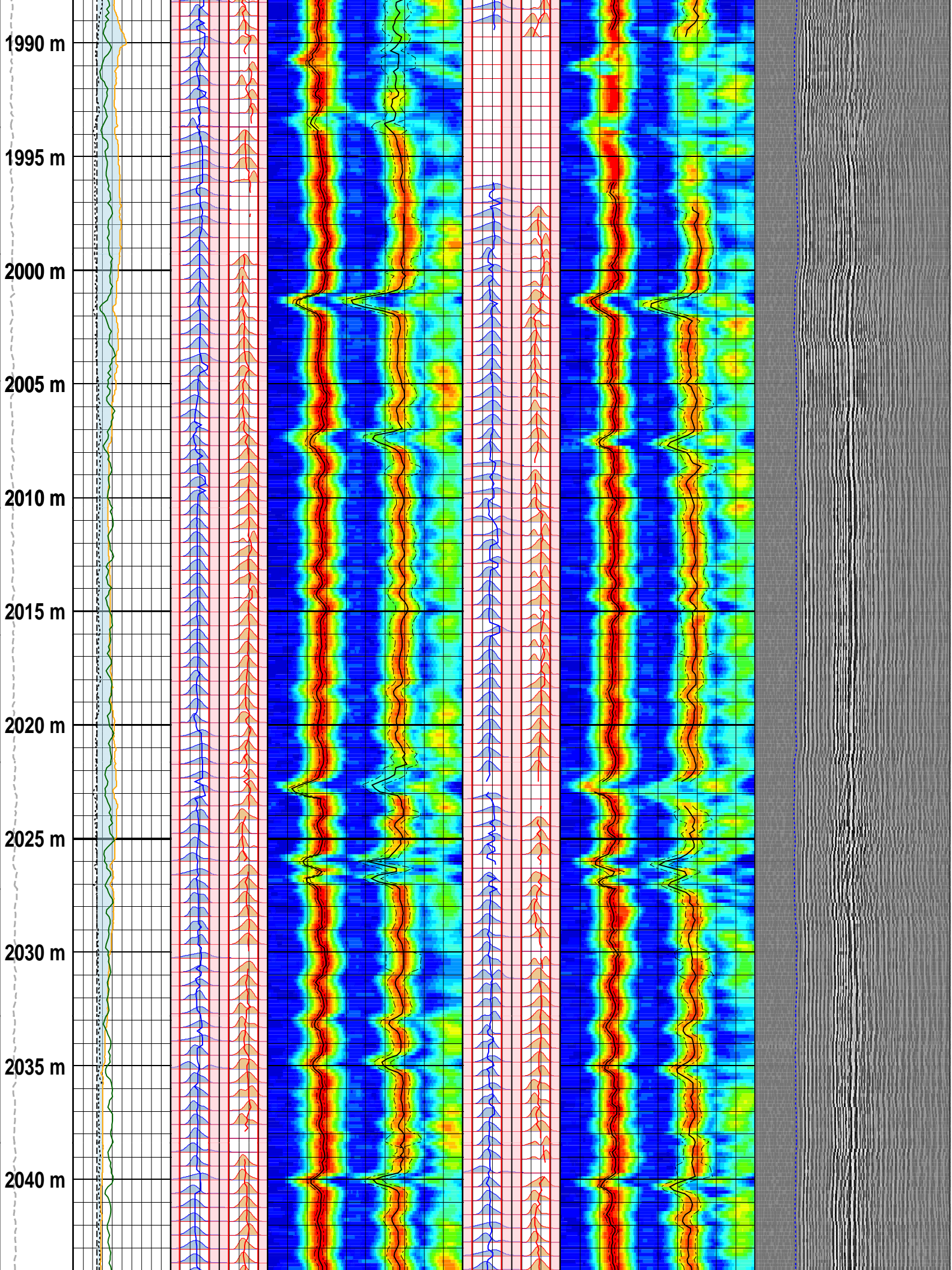
Processing Parameters are listed in the separate logs.

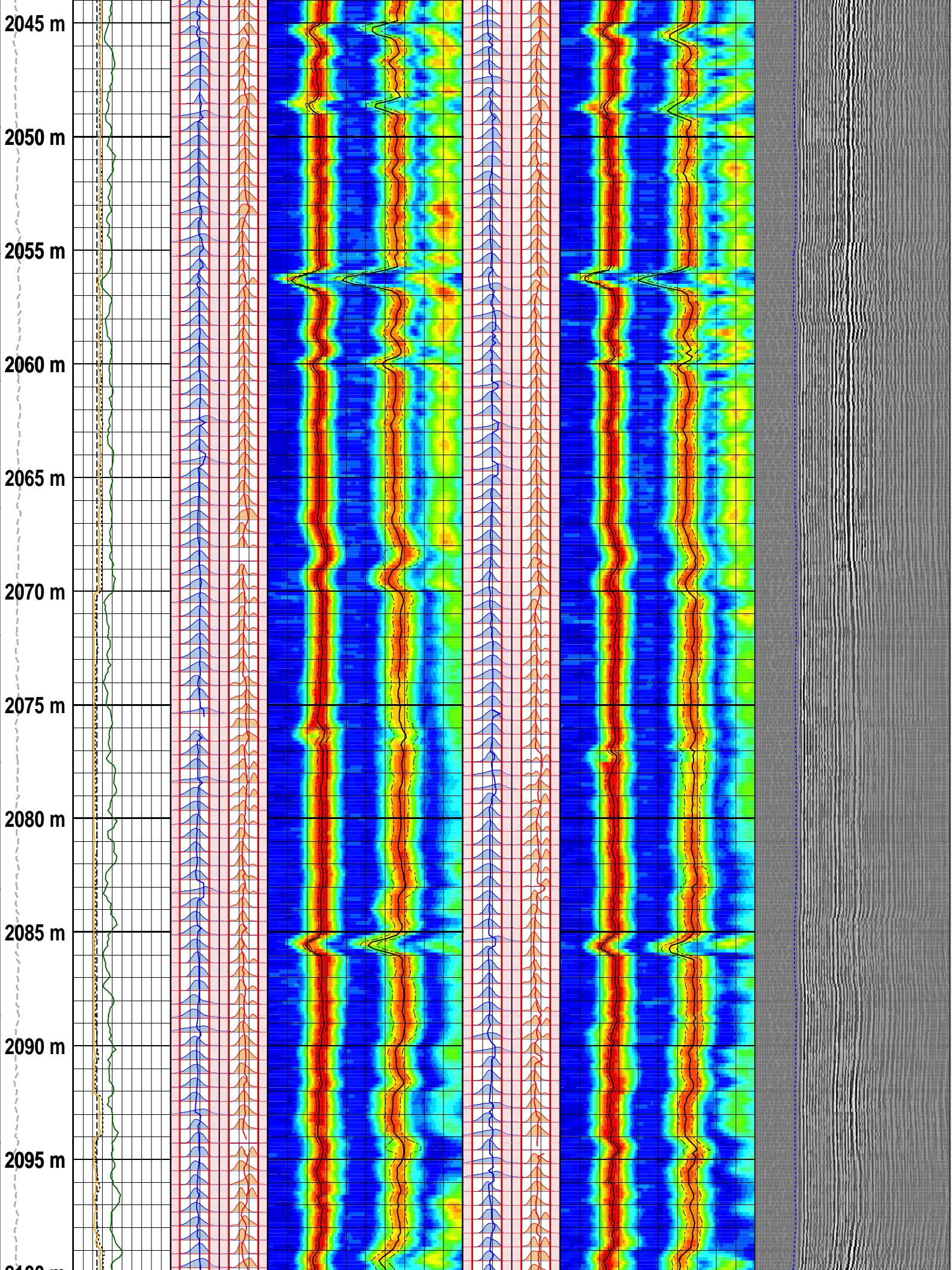
This log represents the results for DT Compressional & Shear.

Monopole (MPS) DT Compressional QC

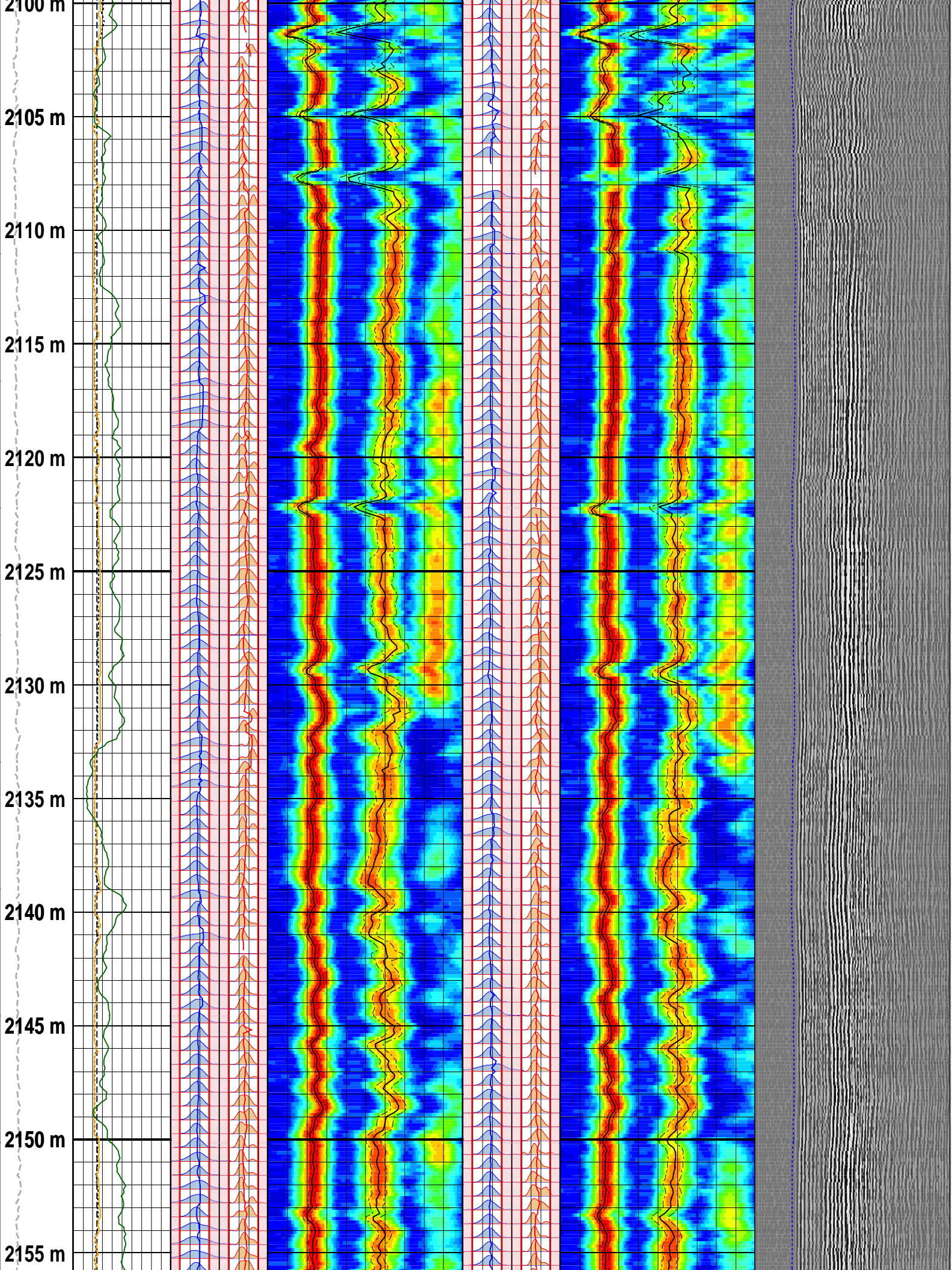


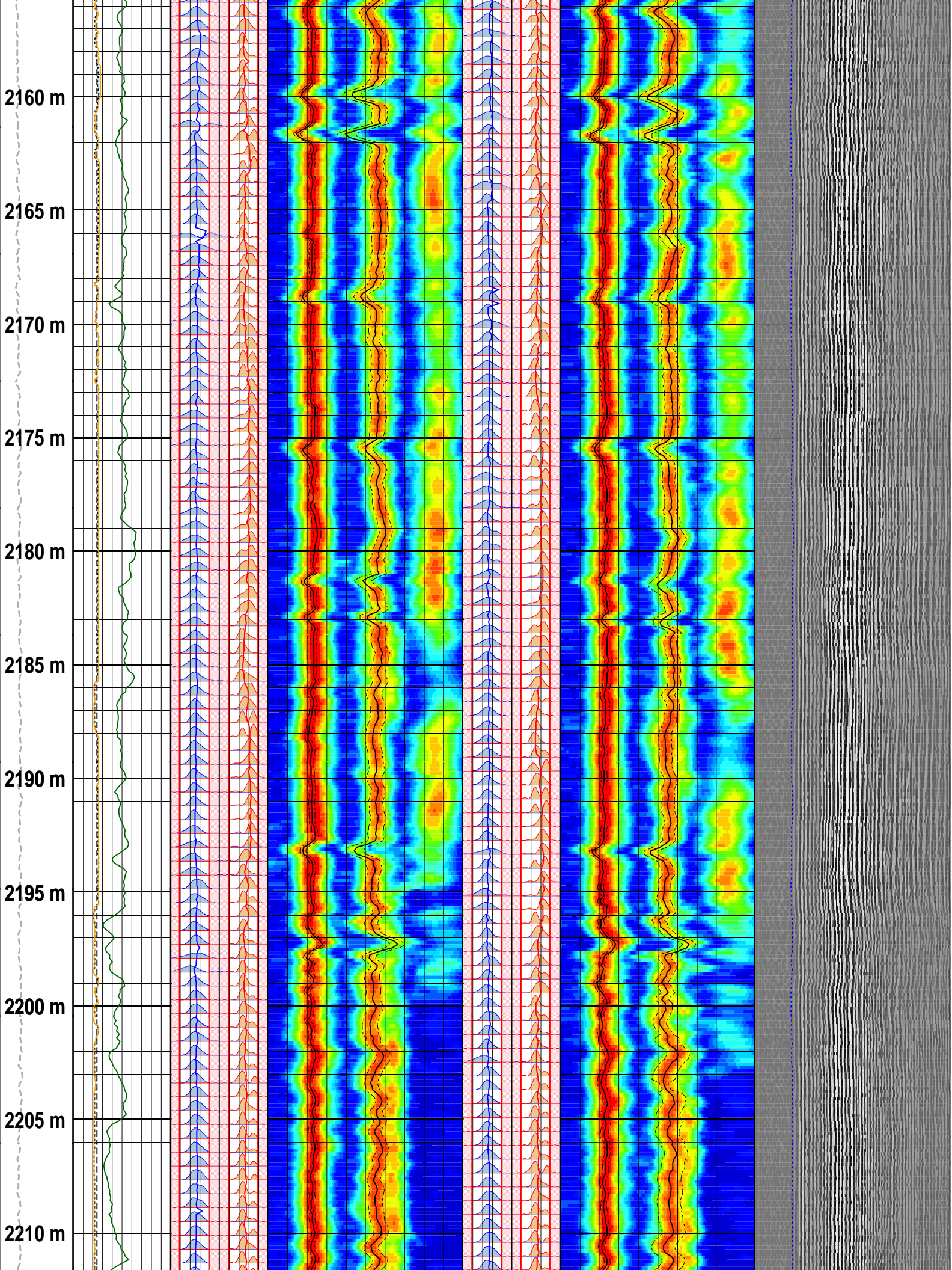




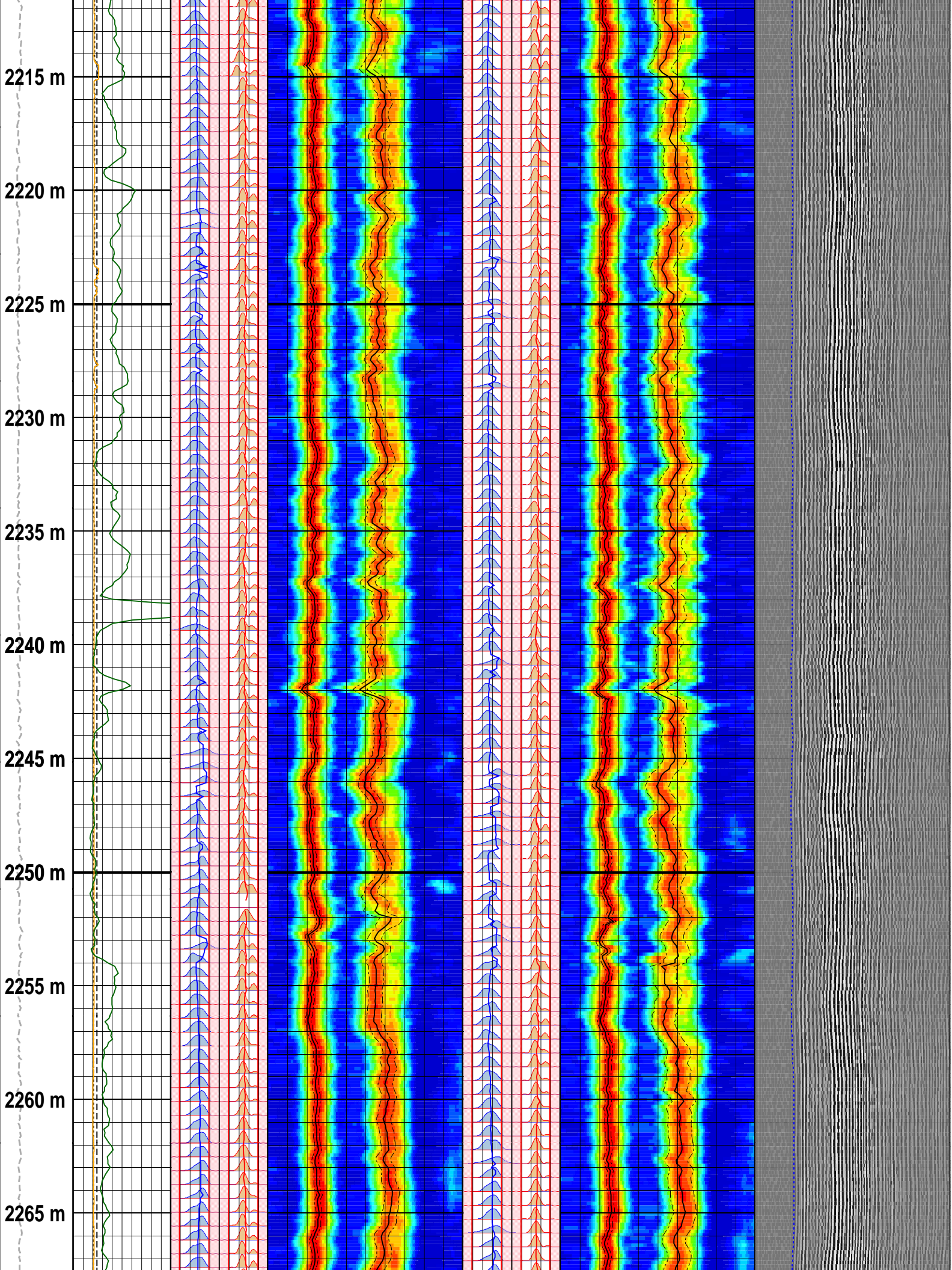


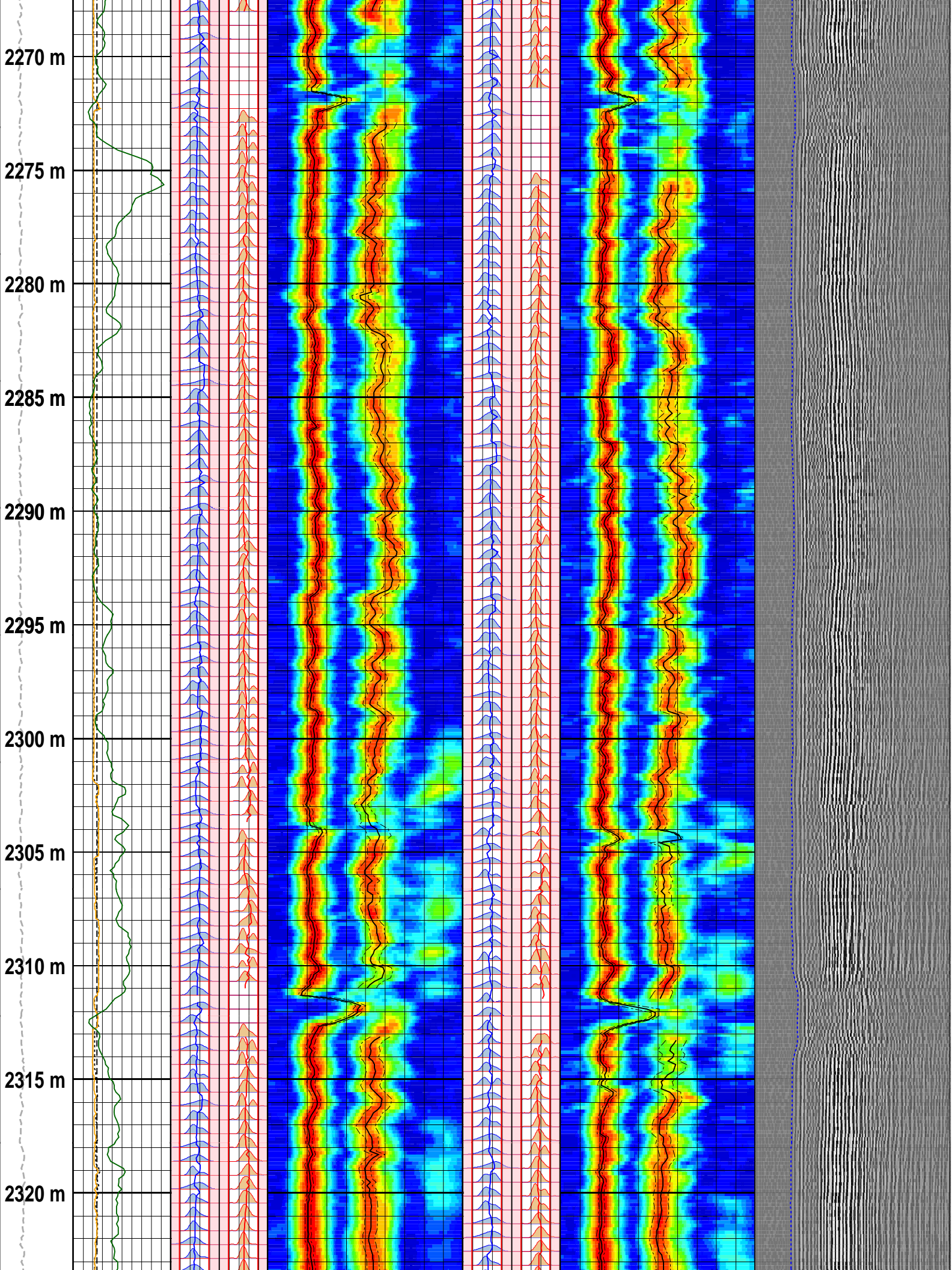




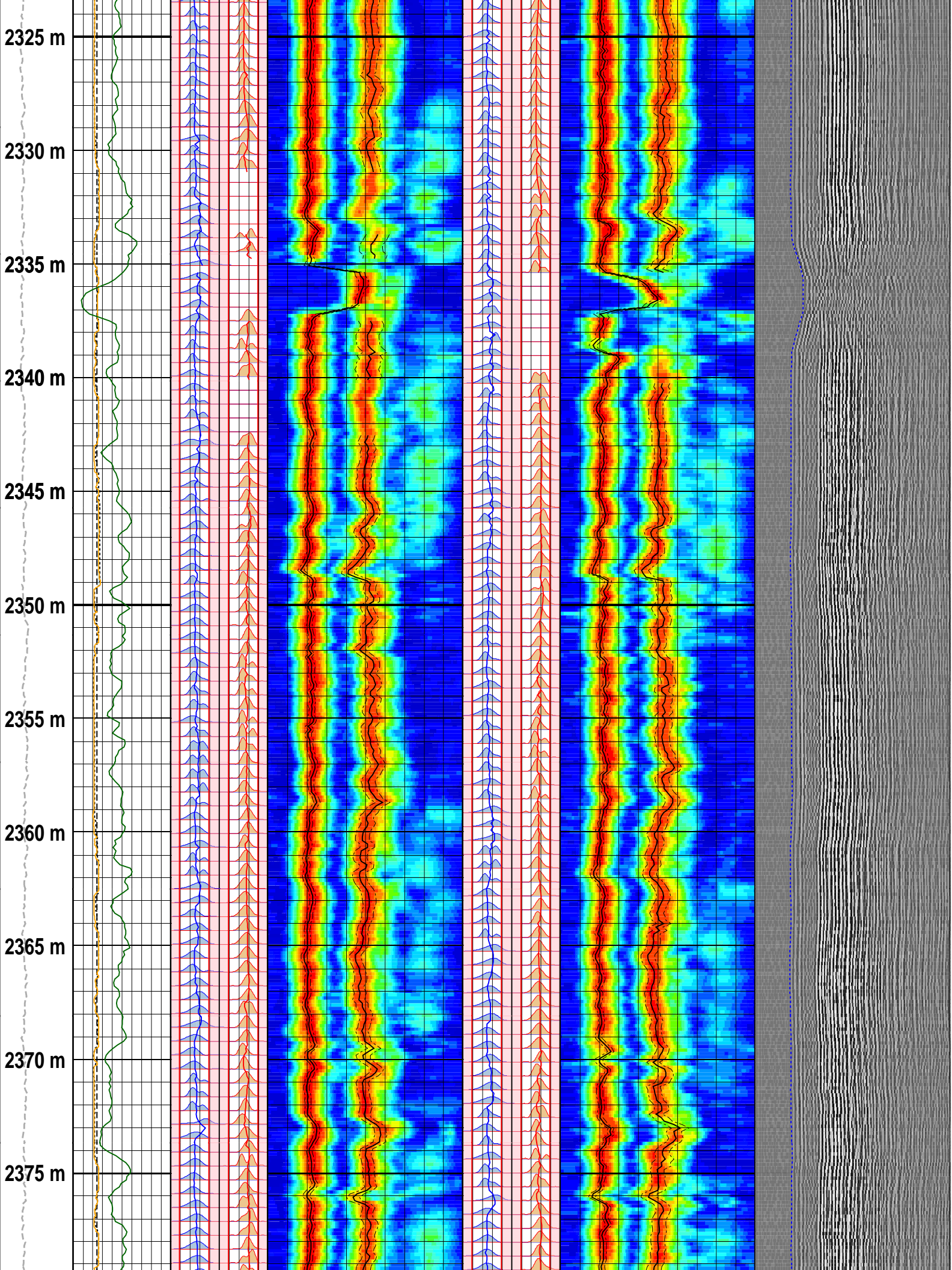


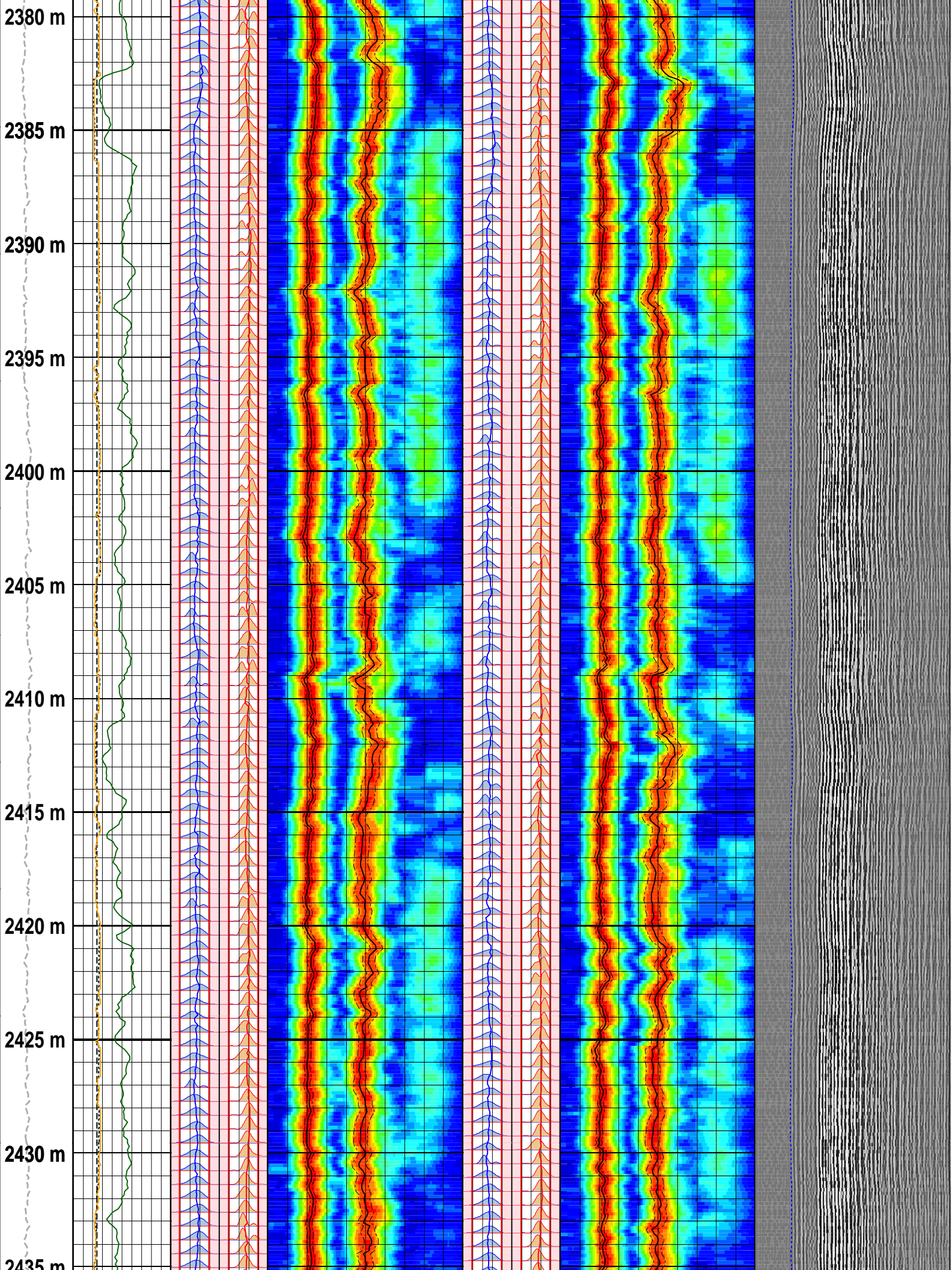




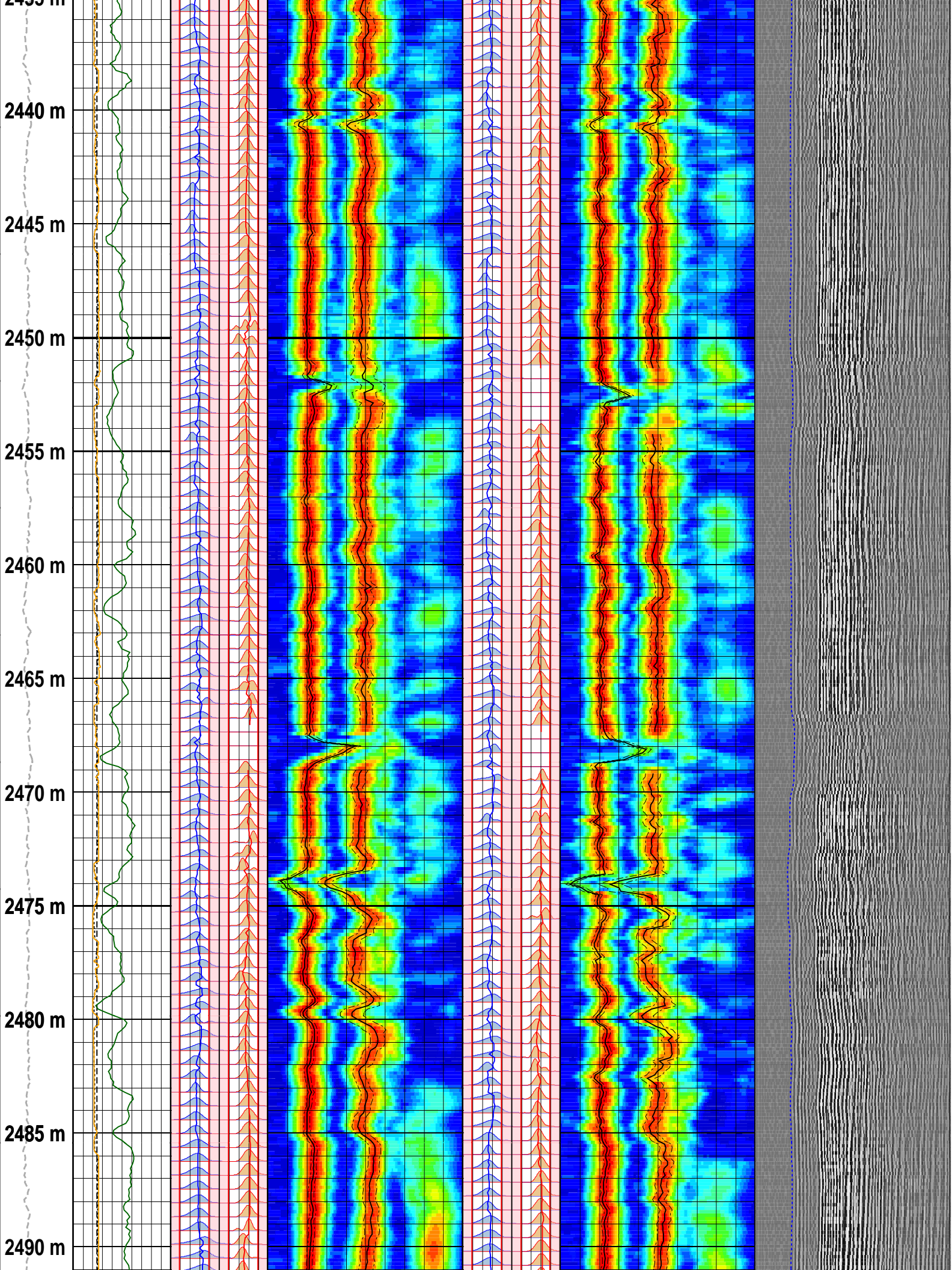


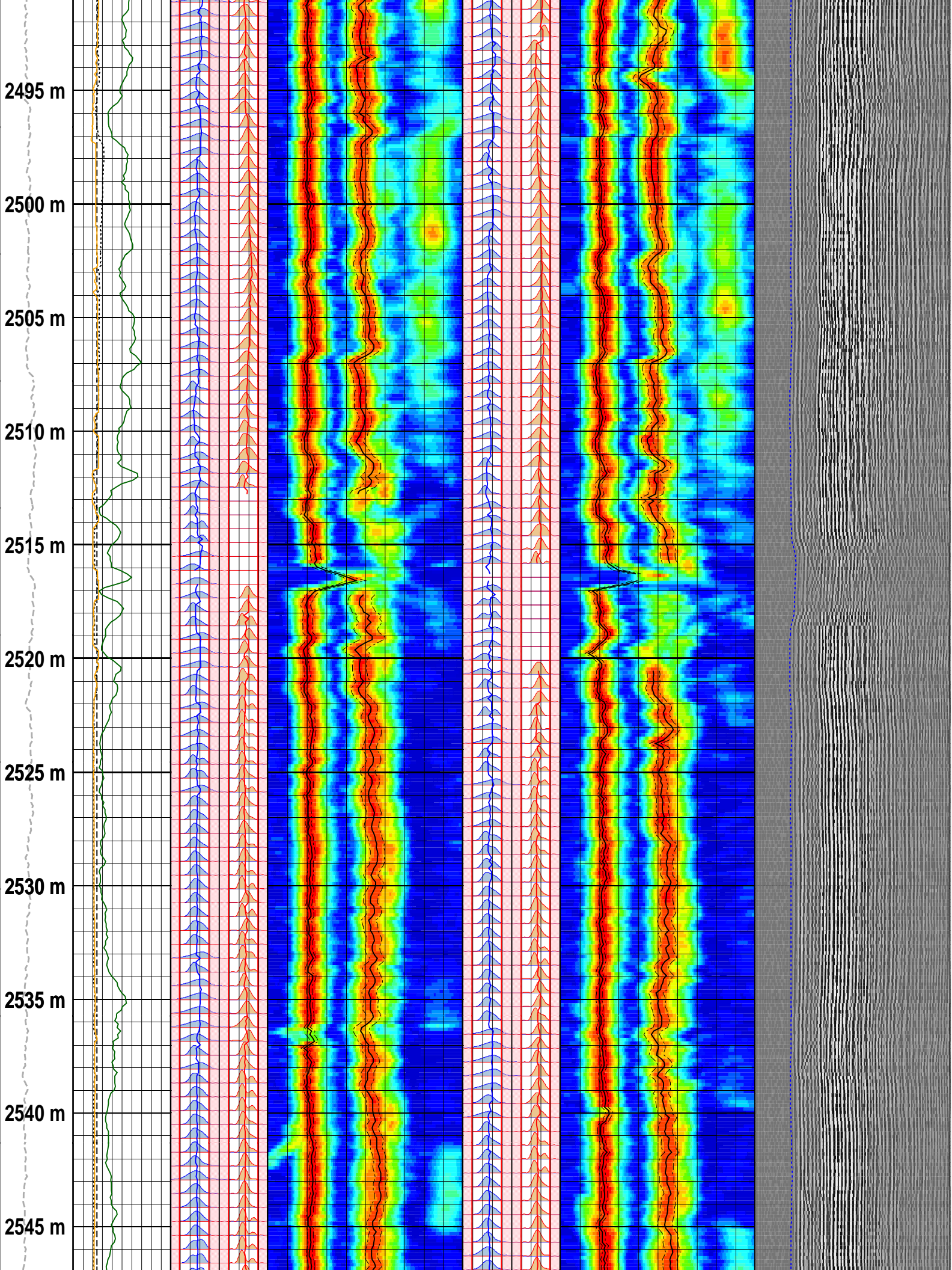




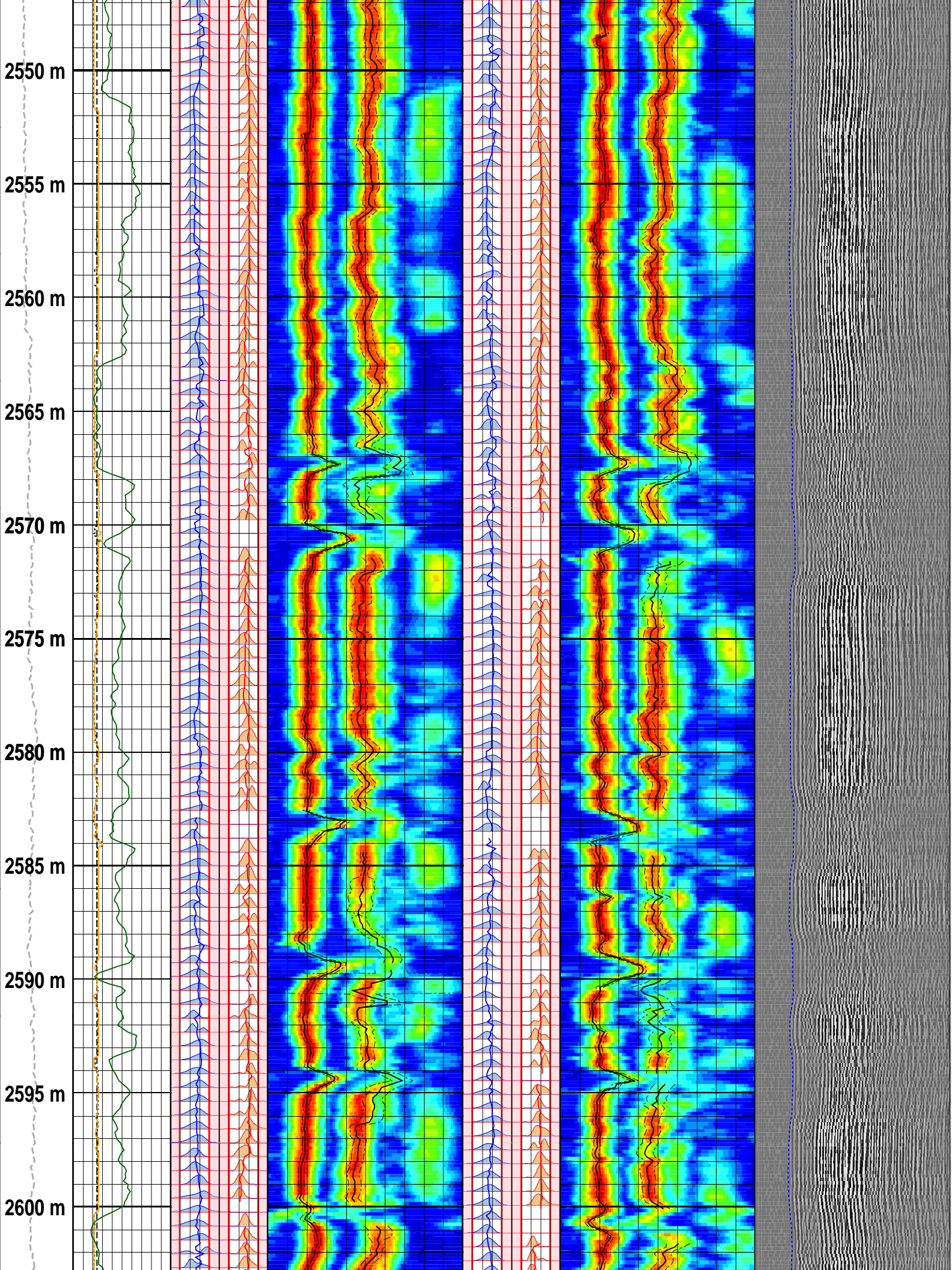


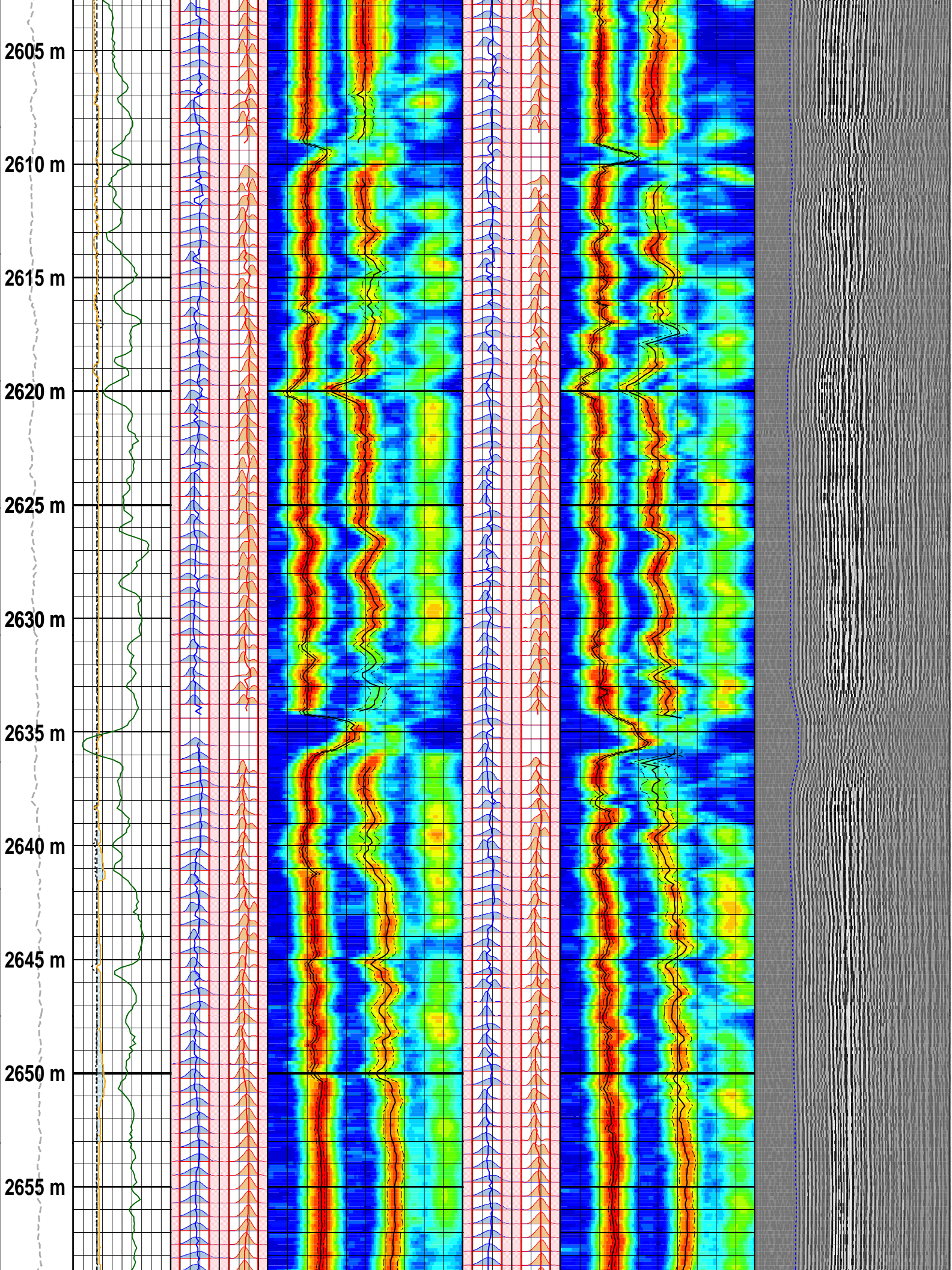




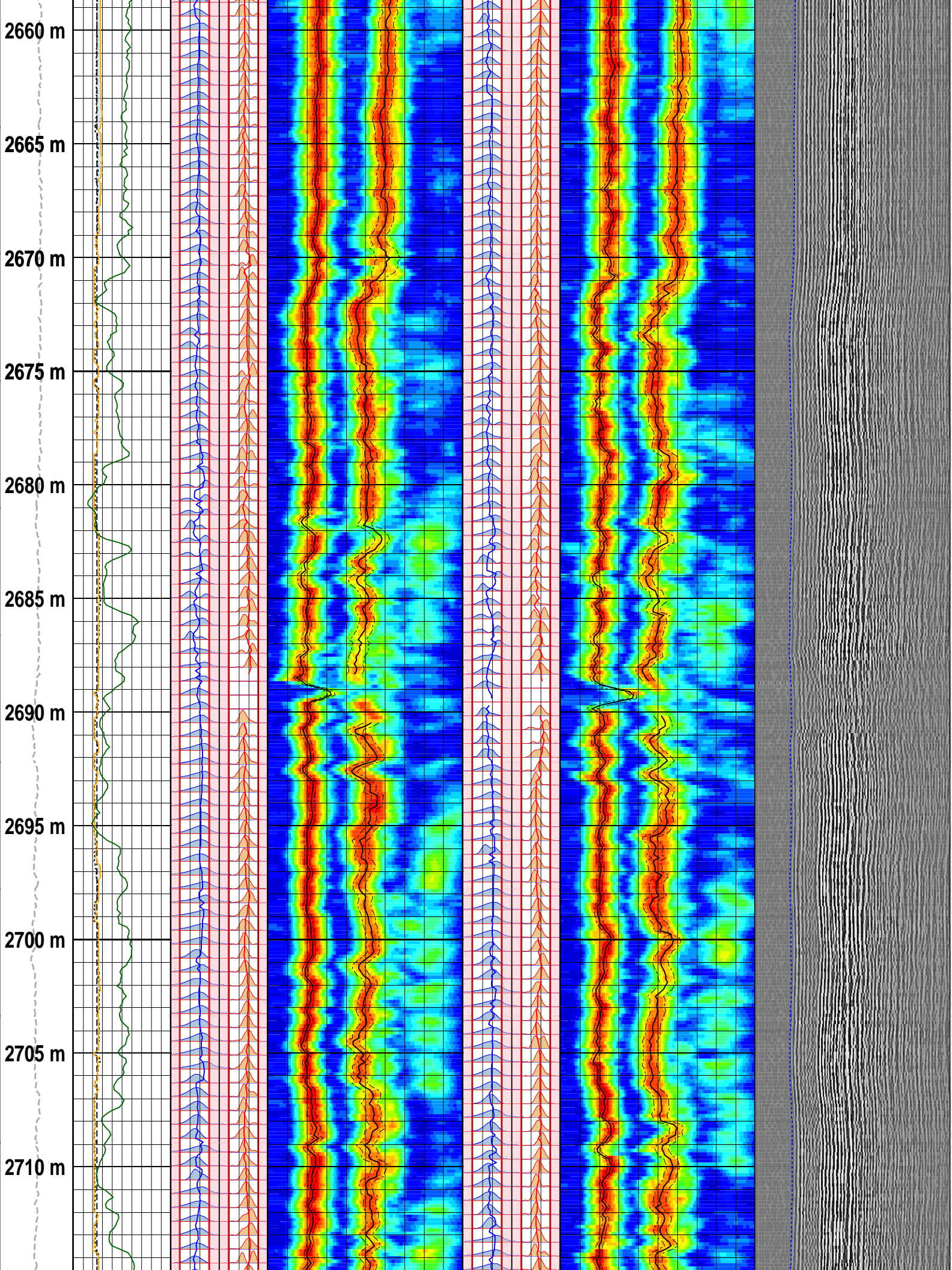


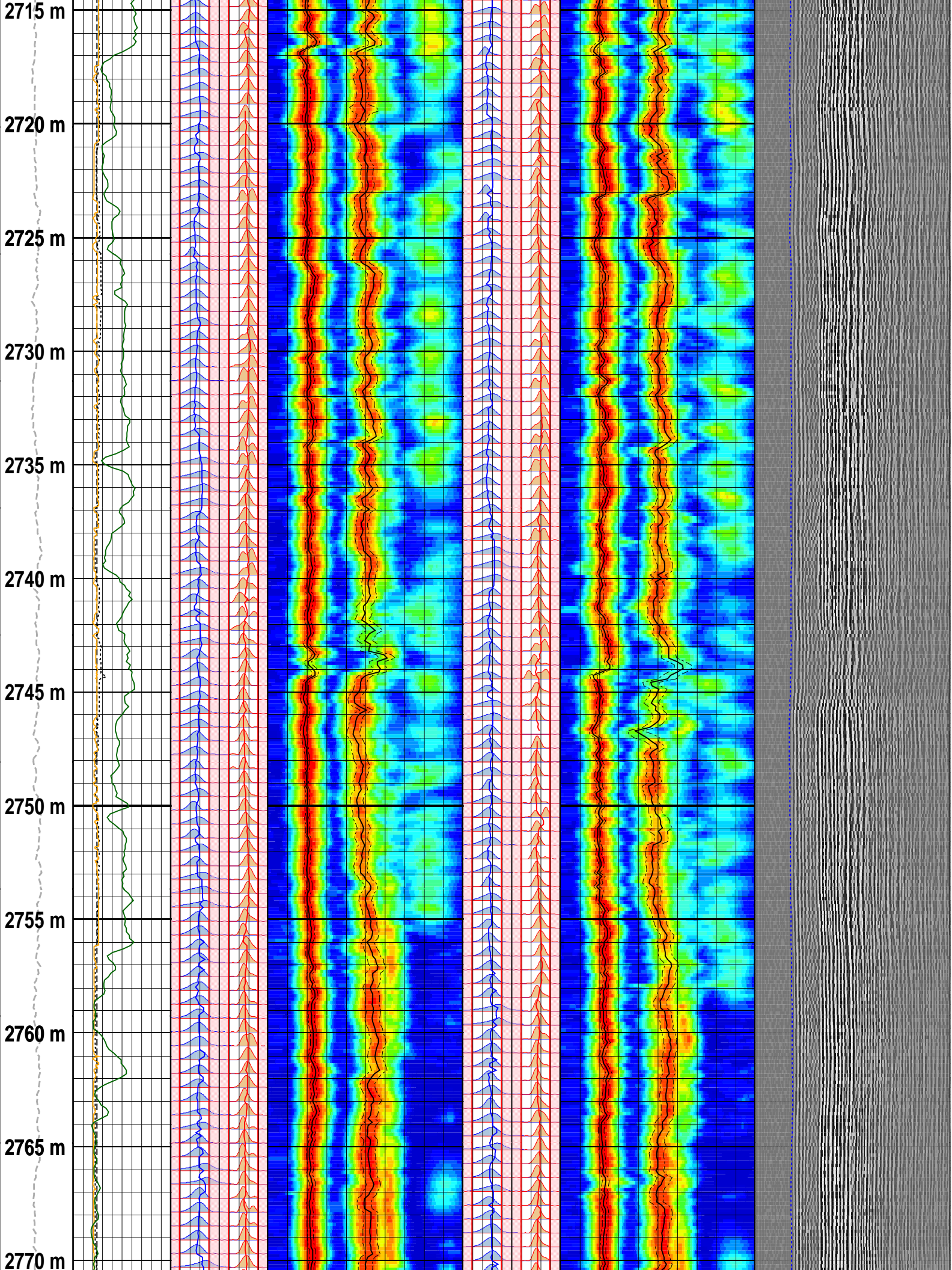




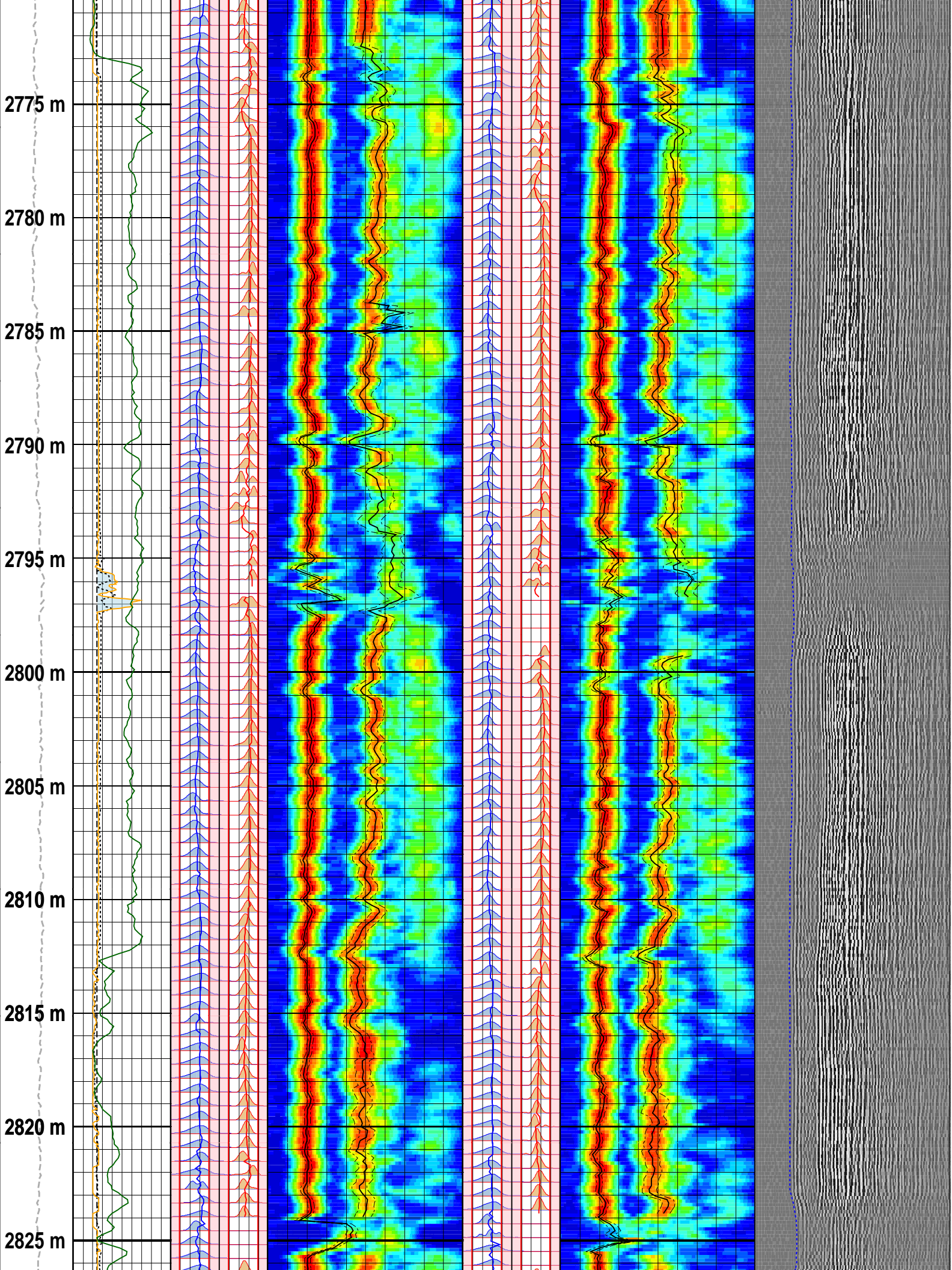


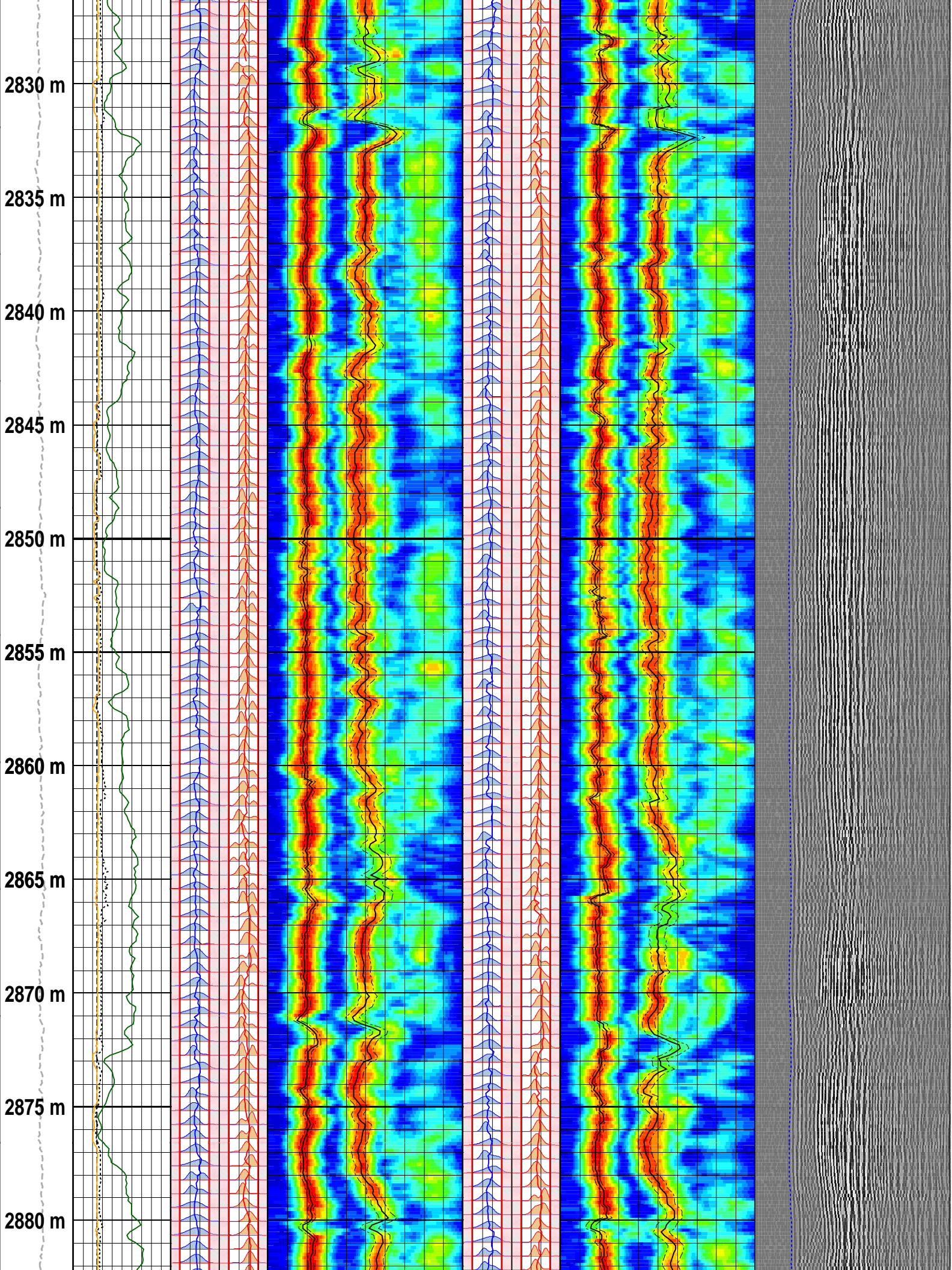




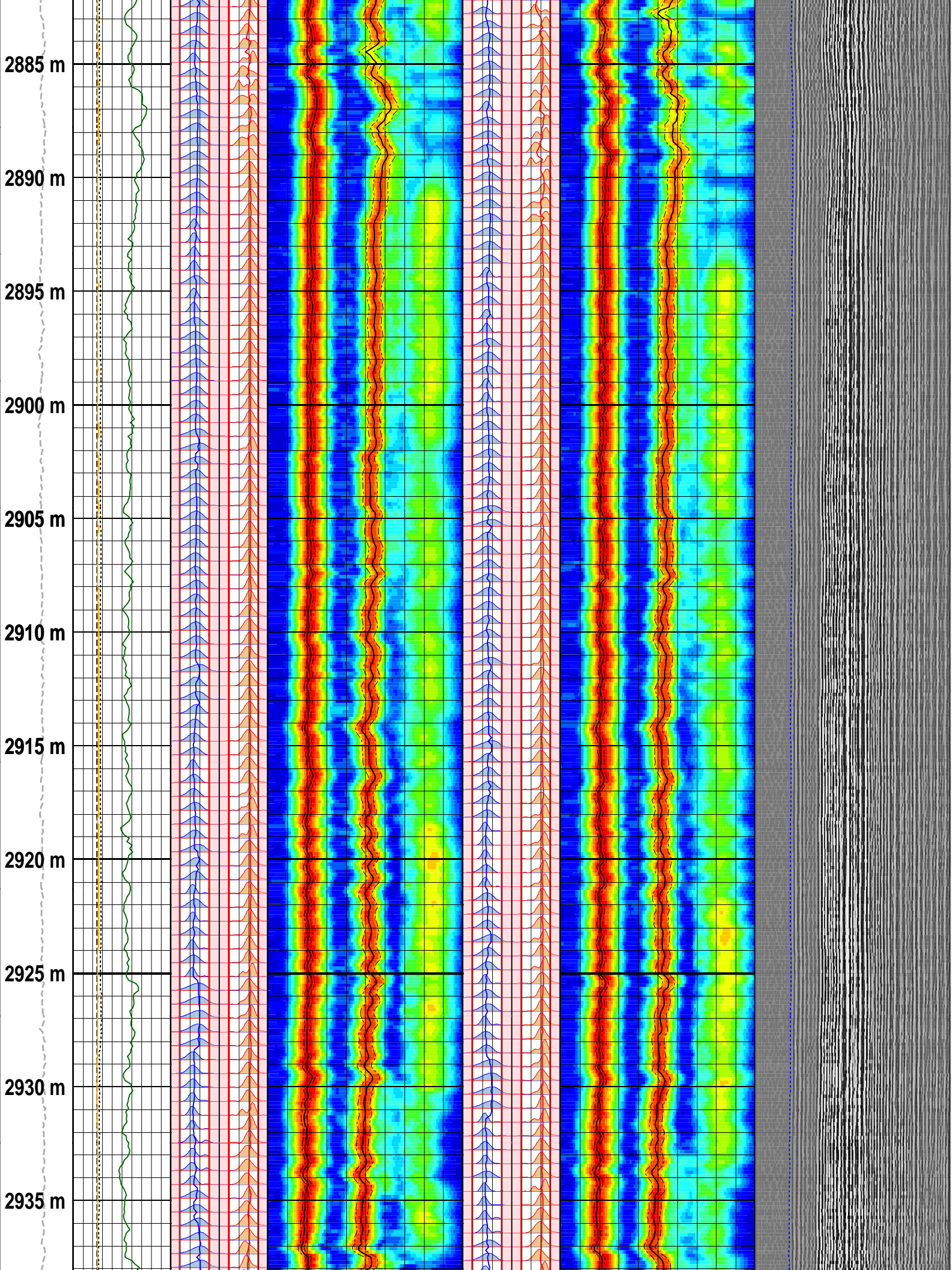


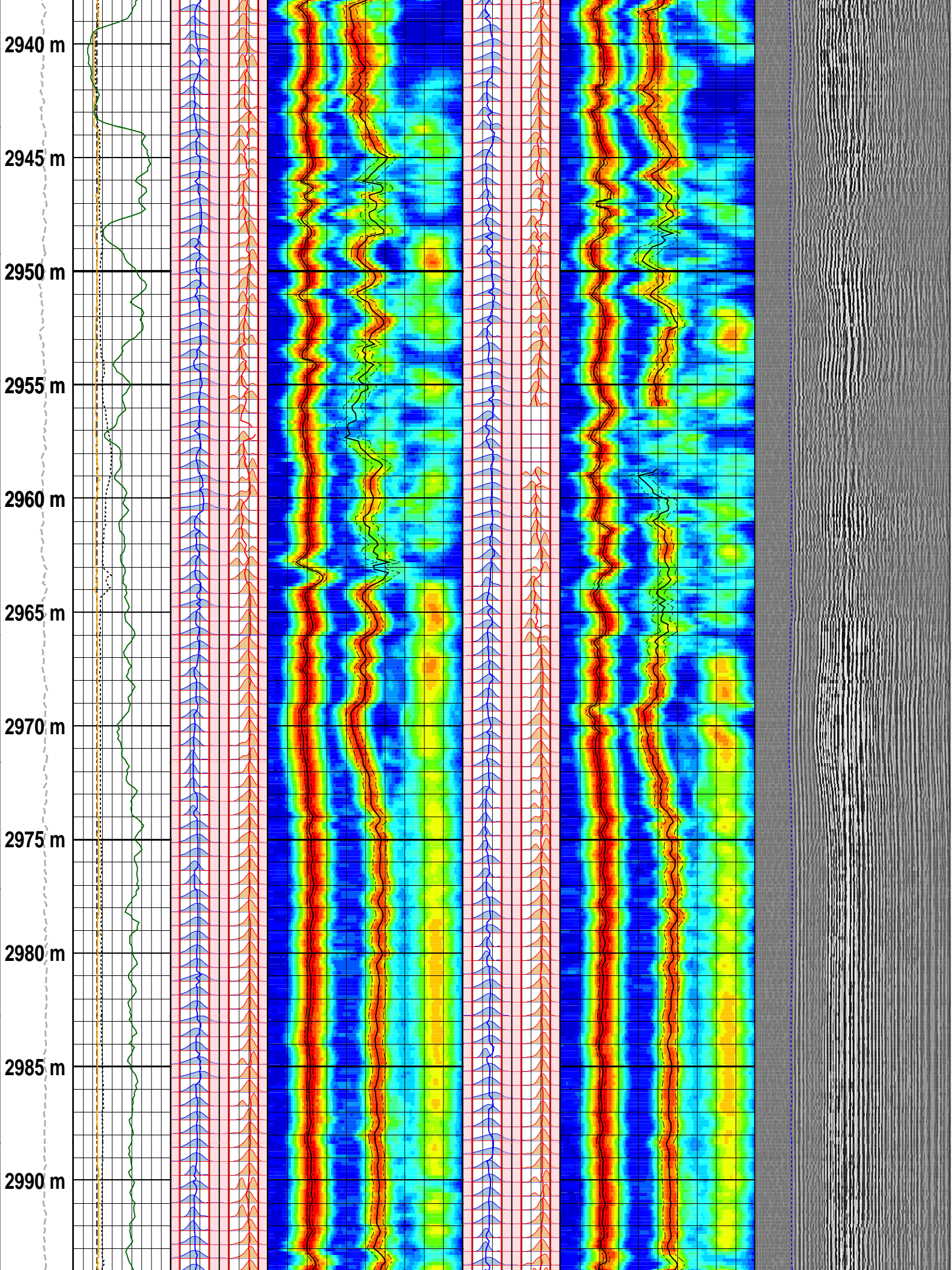




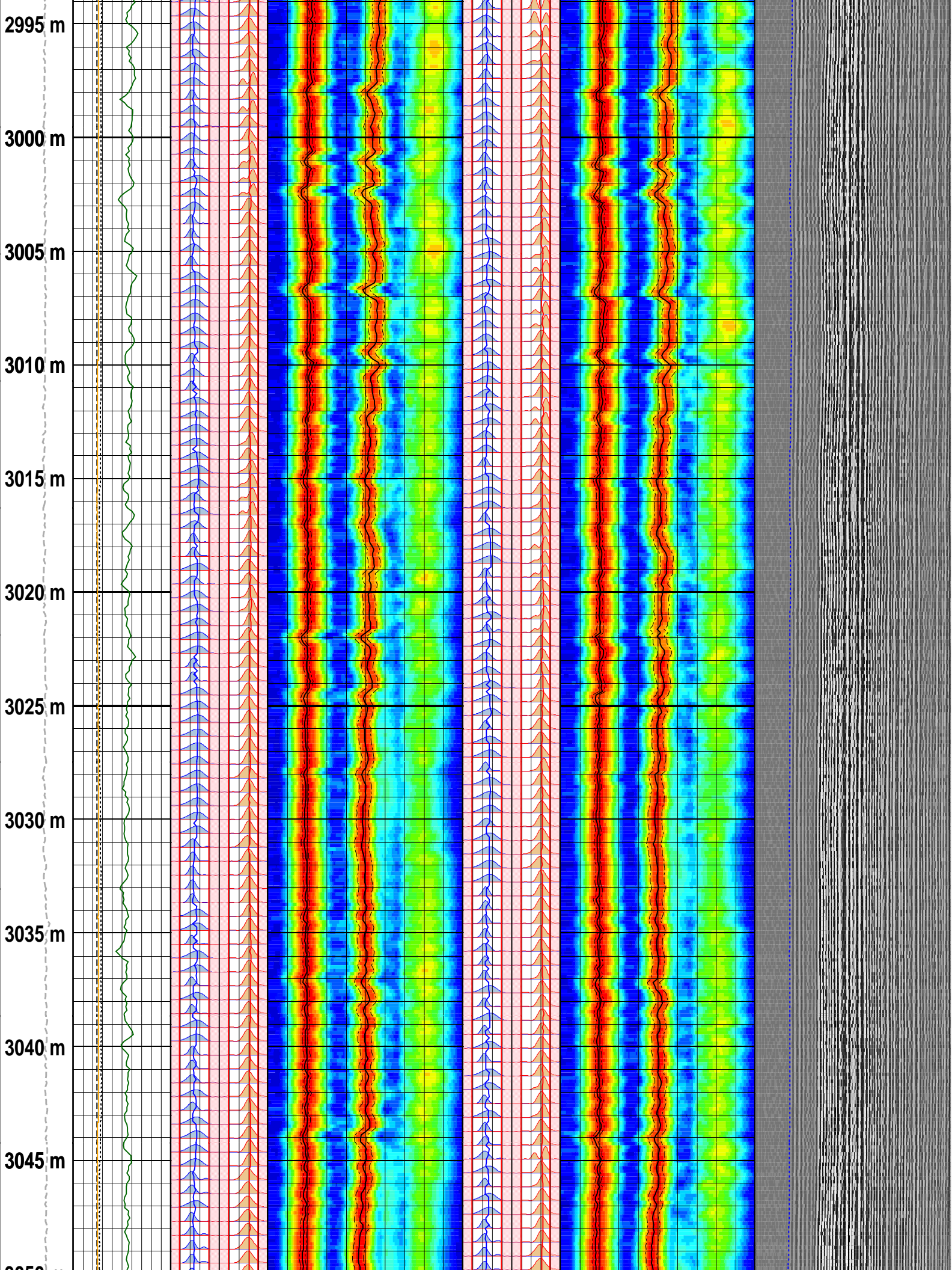


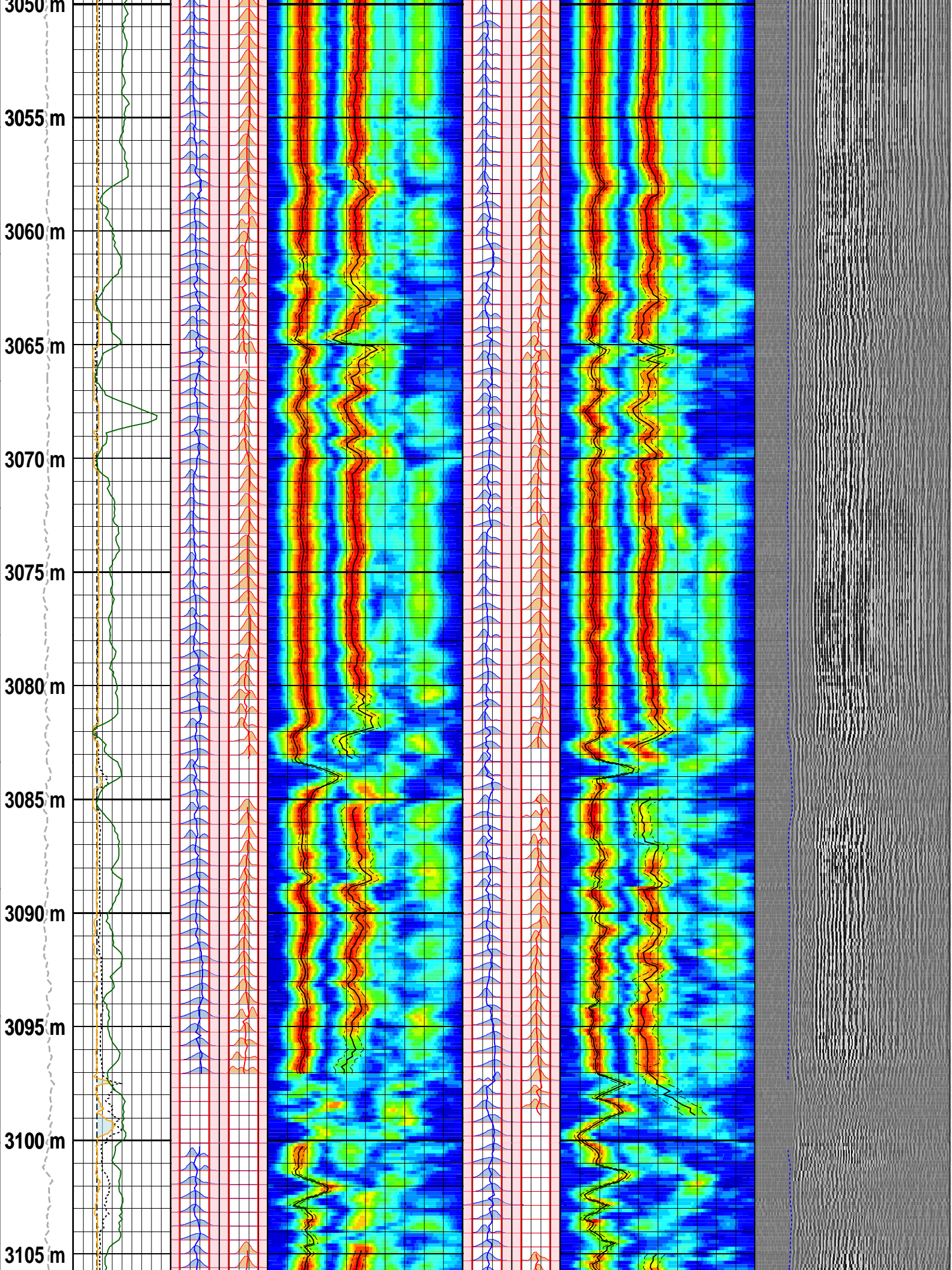




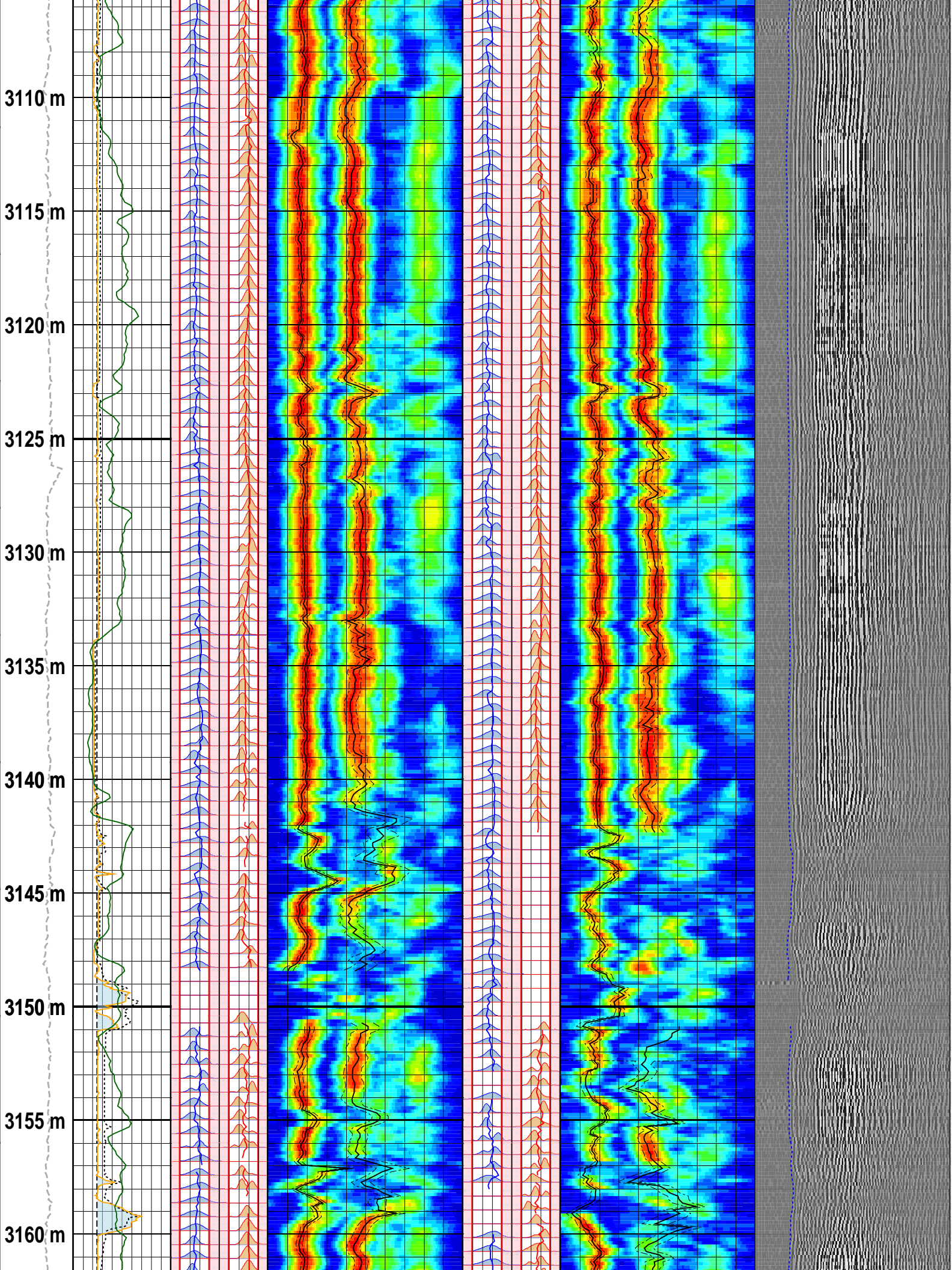


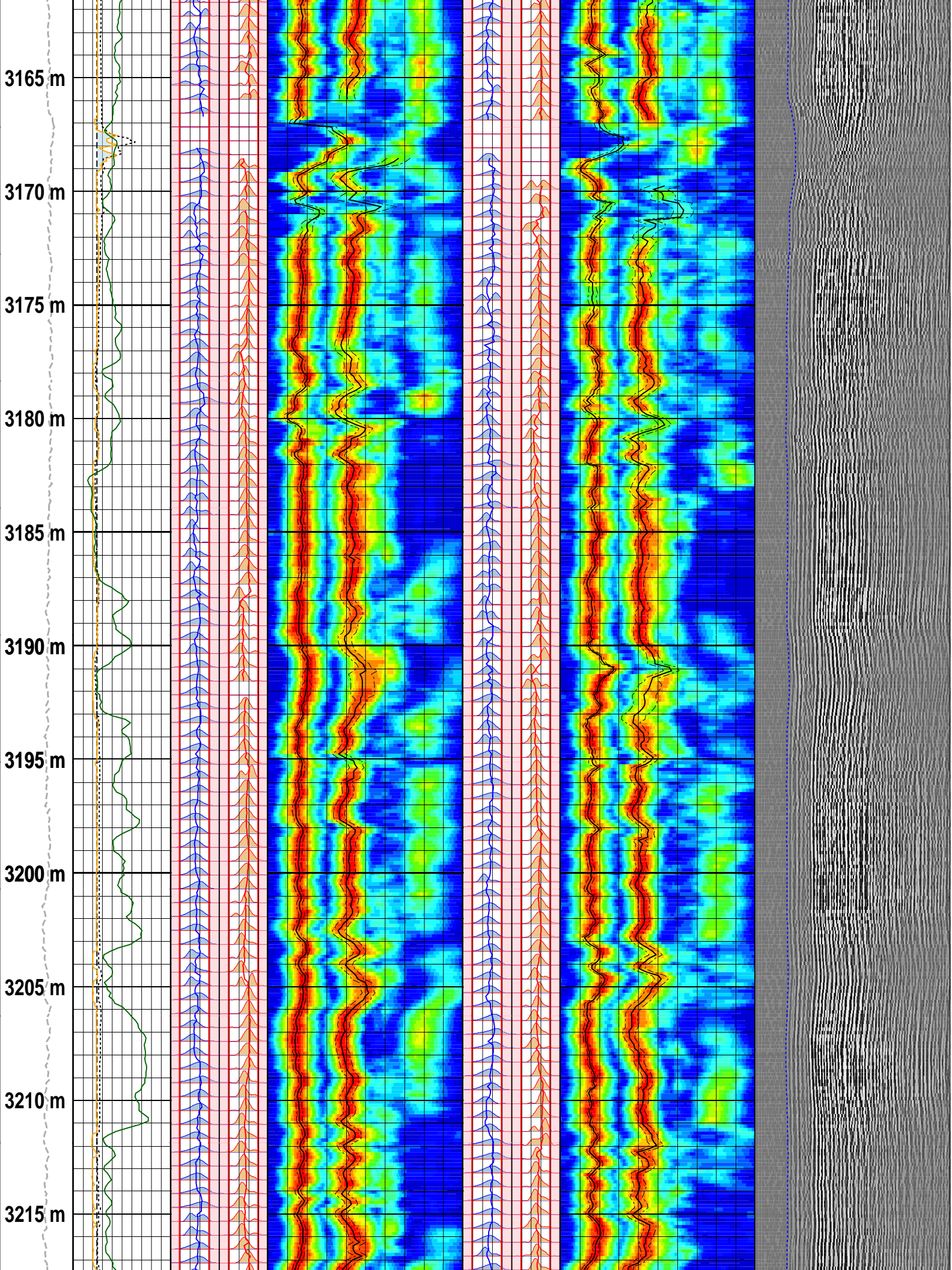




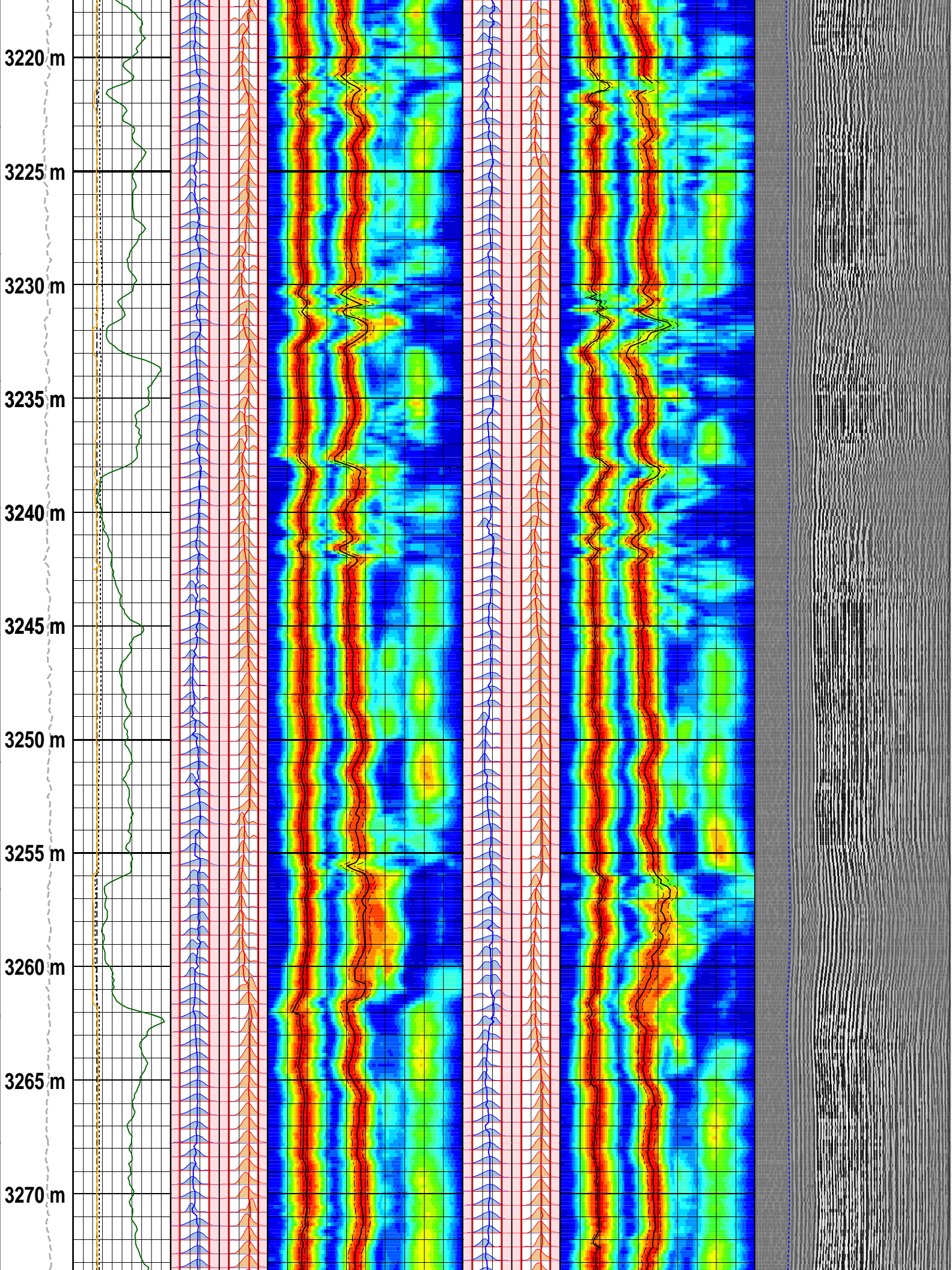


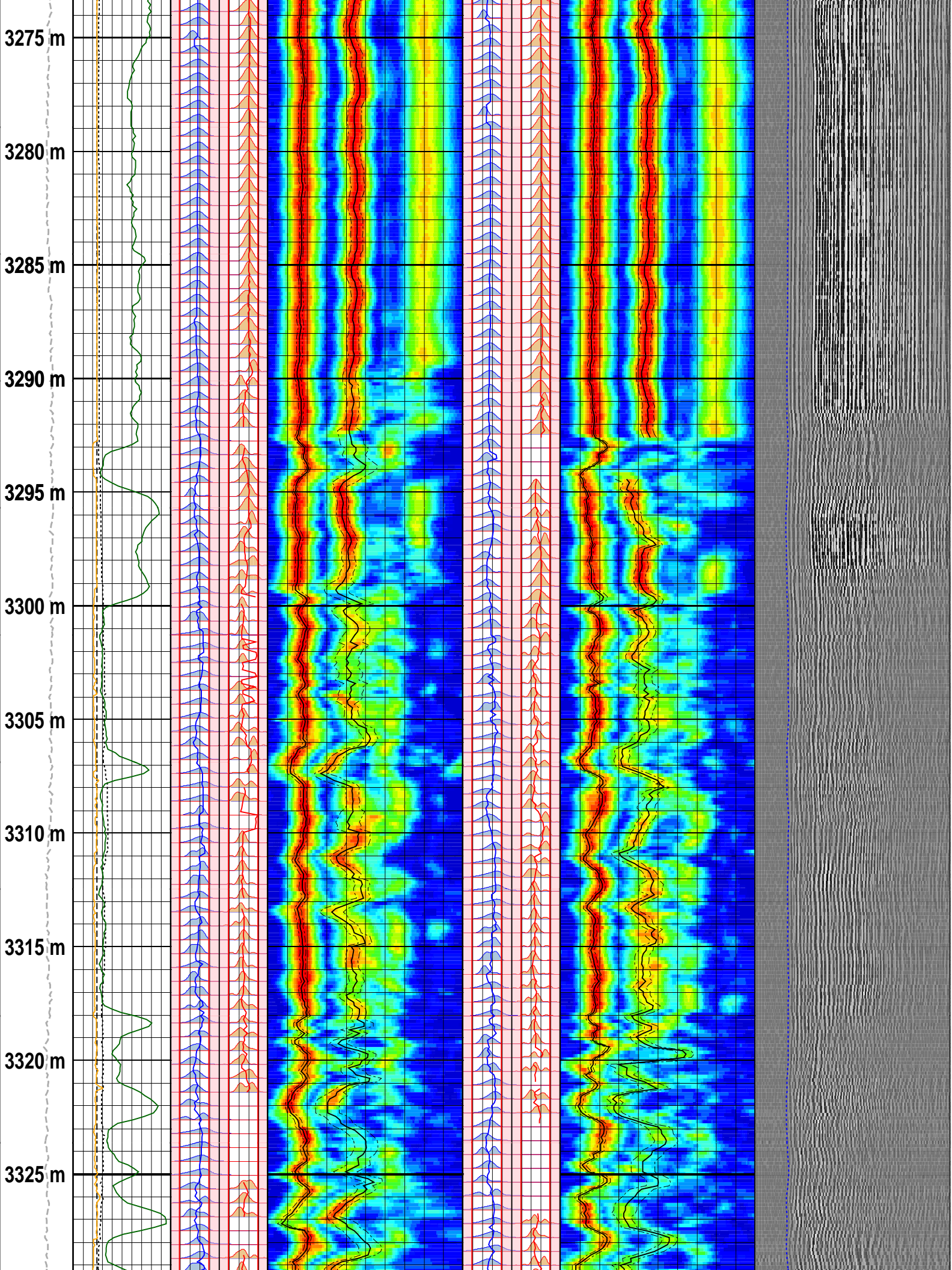




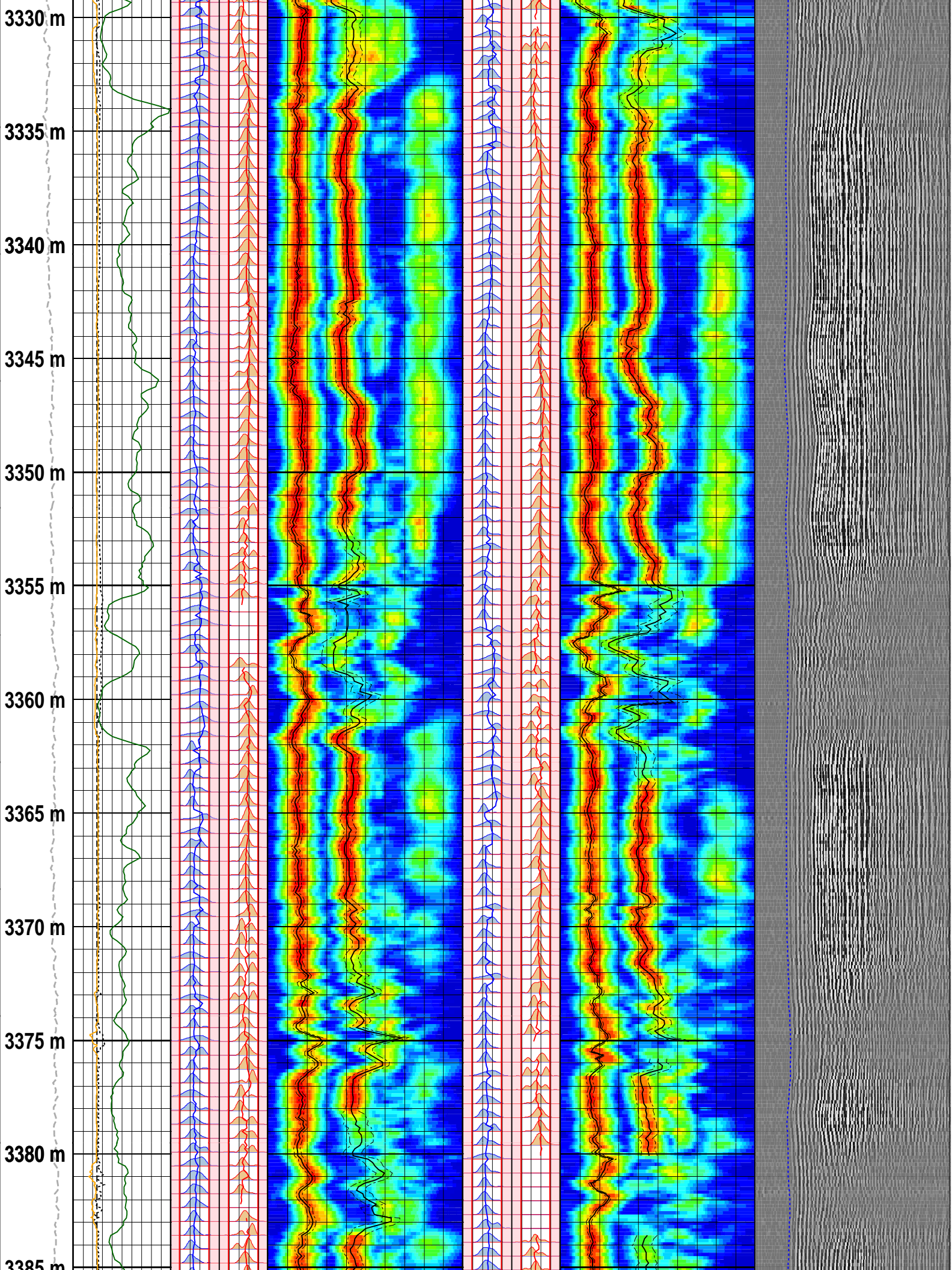


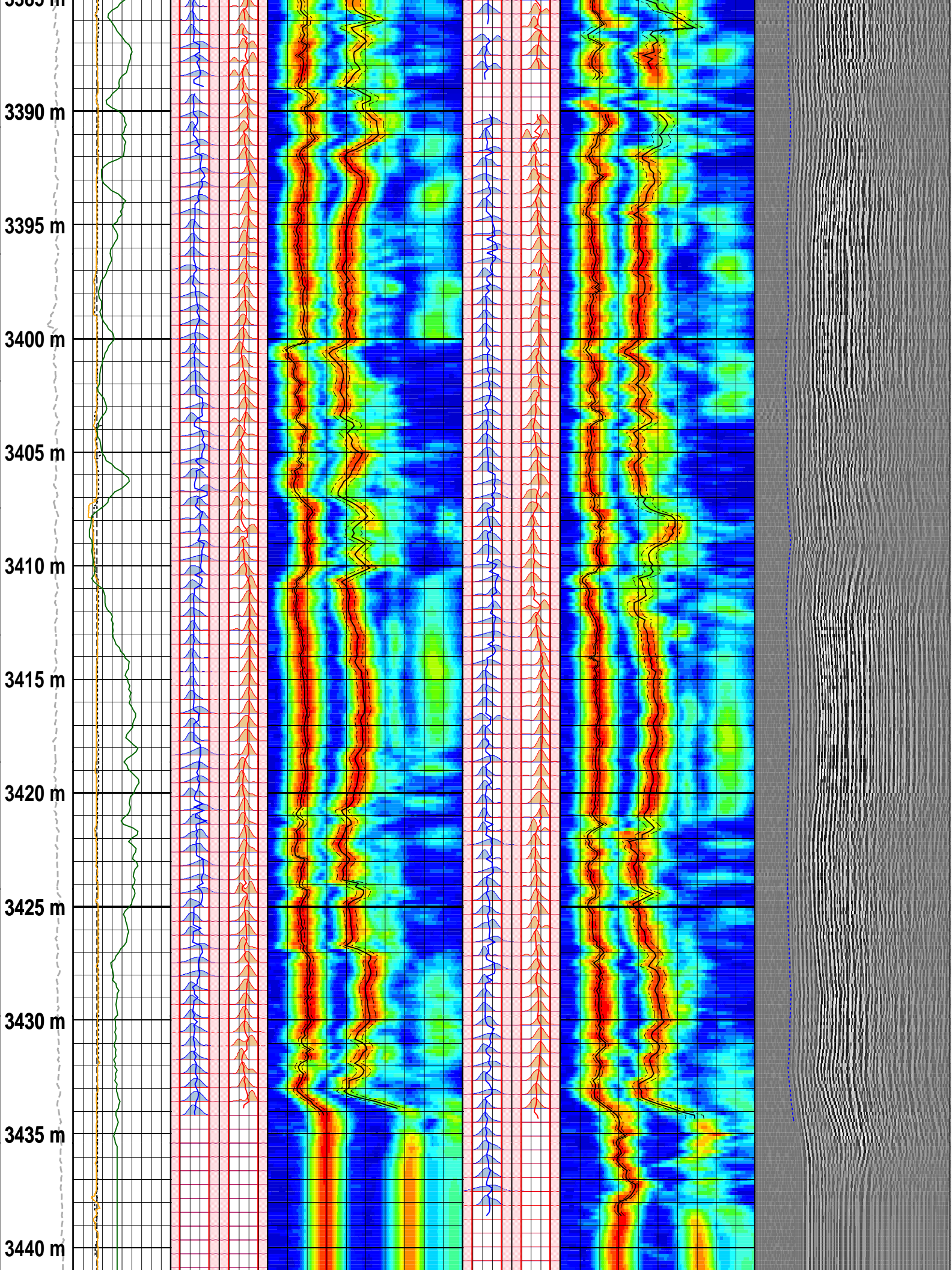




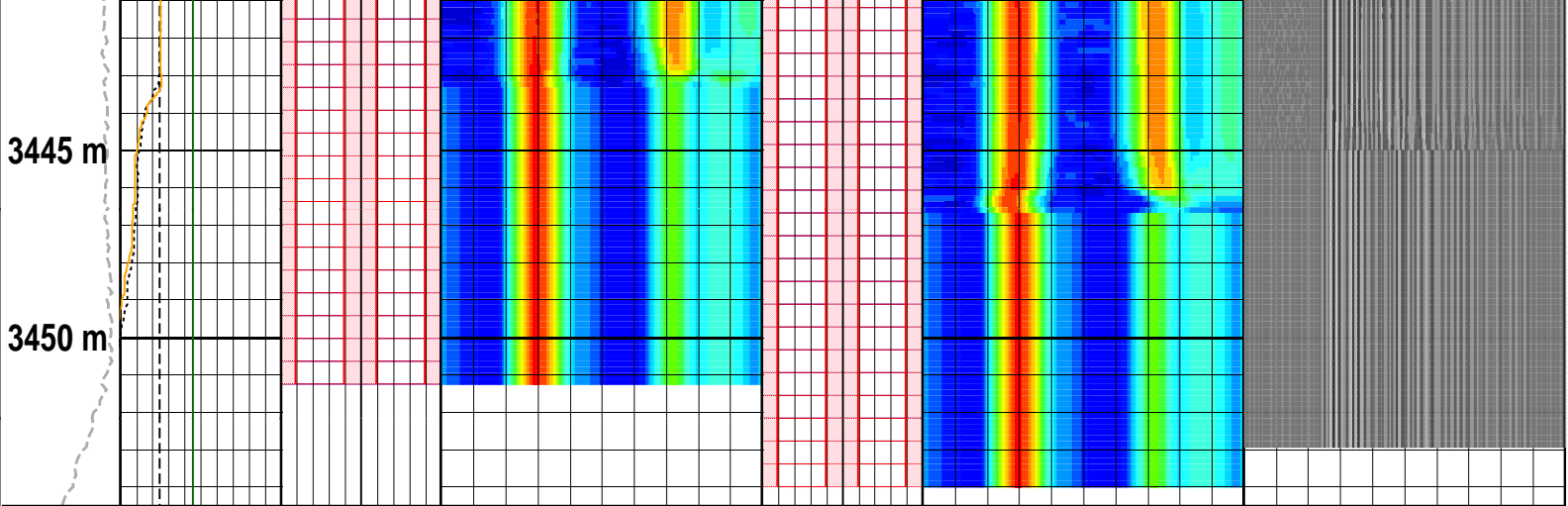










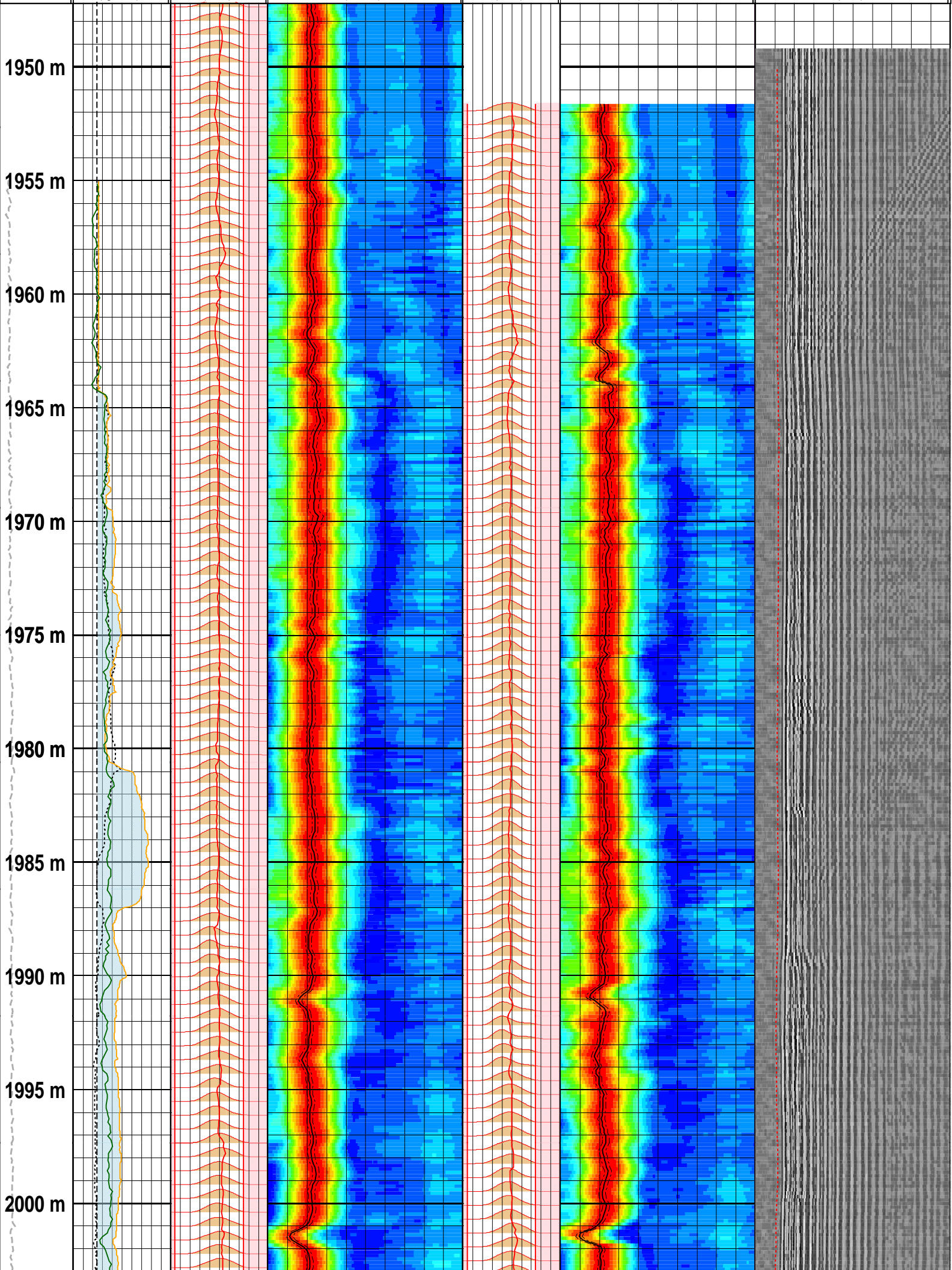


Customized Process: Start Depth (3453.99 m), Stop Depth (1947.21 m), Logging Mode (DSI – MPS)  
Noise Cut Filtering(No), Casing Cut Filtering(No)  
WF\_FLG(1 1 1 1 1 1 1), MUD\_TYPE(WBM), STCAL(Multishot), NRSA(5), ENE\_THRE\_FLG(NO)  
TRSPAC(2.7432), RRSAPAC(0 0.1524 0.3048 0.4572 0.6096 0.762 0.9144 1.0668)  
Mud Slowness (no input)  
Hole Diameter (HDAR@FMI\_DSI\_031PUP;3 (3459.02 – 1954.99 m))  
Zoning Guide (SLOW@BestDT-3;7 .DTCO .FMD .BDT .BDT (3451.02 – 1946.98 m))  
Tracking Guide (DTRP@BestDT-3;3 .CO .MPS .SWP .BDT (3451.1 – 1947.06 m))

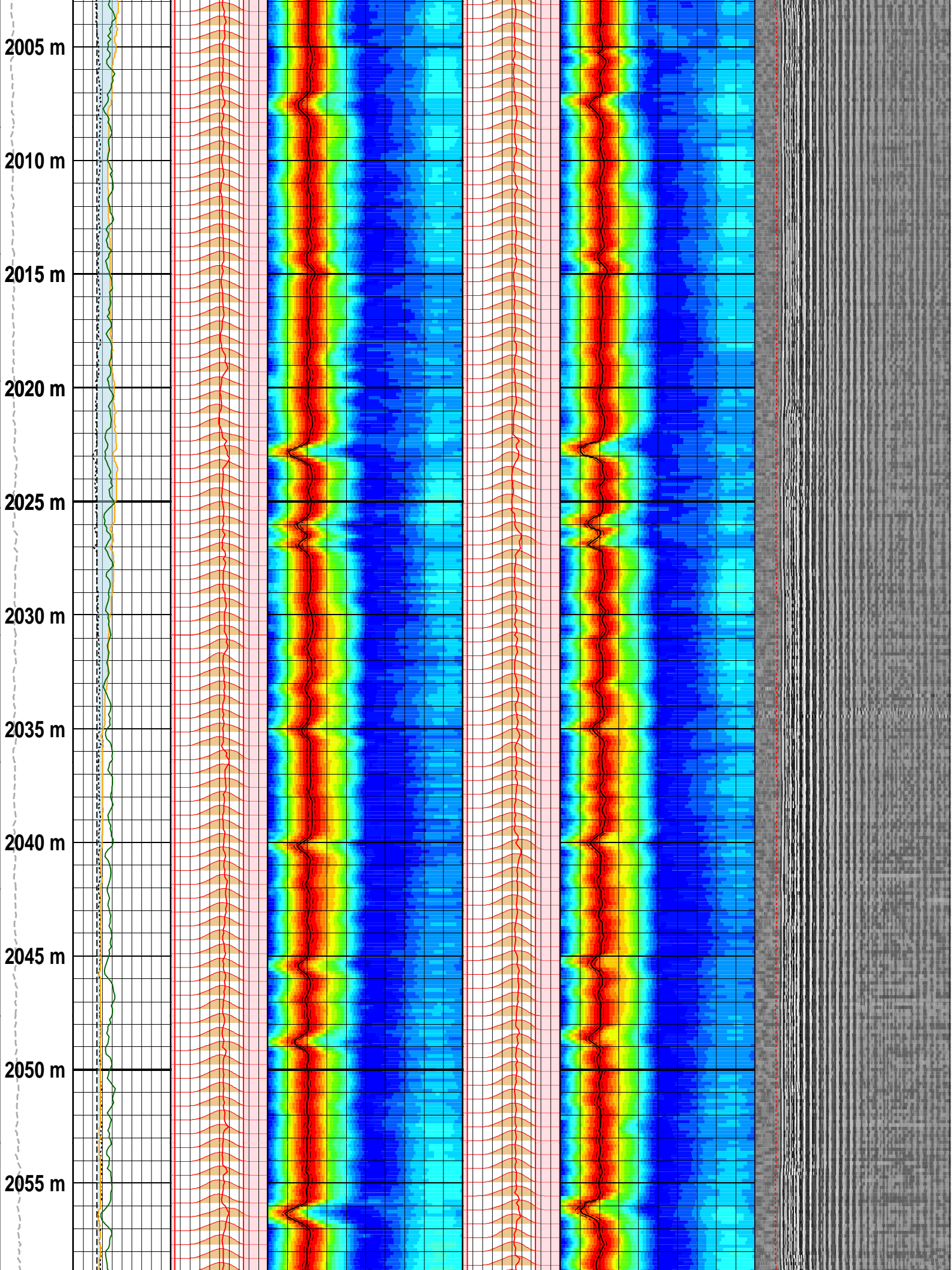
--- Zone Top Depth (0), Zone Name (Zone1) ---  
SFTY(Intermediate), BHS(OPEN), CSIZ(9.625), HDM(HDAR), HD(8.5), DTMUD(200)  
TWI(320), SLL(40), SUL(240), SST(2), TLL(400), TUL(4100), TST(100)  
SBW(2400), SBO(360), SWD(20), TWD(1800), SEM(0.35), FLENG(49), FLOW(4000), FHIGH(16000)  
TKO\_MODEL\_ORDER(2), TKO\_TOL(50) TKO\_FLOW(0), TKO\_FHIGH(12000)

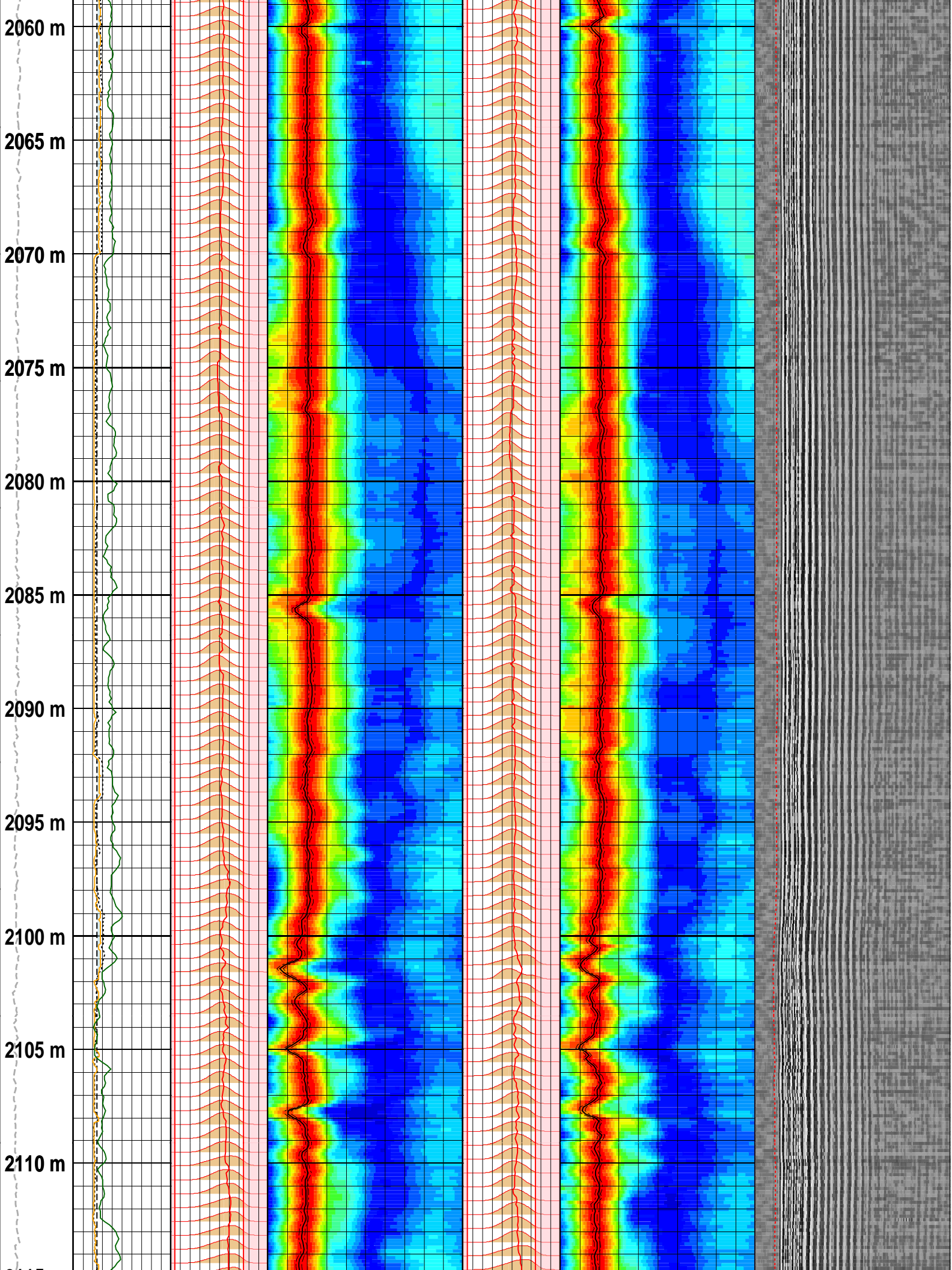
MD 1 : 200 m	Gamma Ray	CfRS	DtRS	CfTS	DtTS	TICO@BestDT-3;21 .W04 .RE
	0 ( gAPI ) 250	-20000 ( Hz ) 20000	40 ( us/ft ) 240	-20000 ( Hz ) 20000	40 ( us/ft ) 240	0 ( us ) 5110
	TENS TE	Caliper2	CfRC	DtRC	CfTC	DtTC
	14000 ( Hz ) 20000	6 ( in ) 16	0 ( Hz ) 40000	40 ( us/ft ) 240	0 ( Hz ) 40000	40 ( us/ft ) 240
		Caliper1	SpcRS	STPrjR	SpcTS	STPrjT
	6 ( in ) 16	-20000 ( Hz ) 20000	40 ( us/ft ) 240	-20000 ( Hz ) 20000	40 ( us/ft ) 240	
	Bit Size	SpcRC		SpcTC		
	6 ( in ) 16	0 ( Hz ) 40000		0 ( Hz ) 40000		
	Wash Out					

	Wash Out	Upper Dipole (UDP) DT Shear QC				
	Bit Size					
	6 ( in ) 16					
	Caliper1					
	6 ( in ) 16					
TENS TE	Caliper2	SpcRS	STPrjR	SpcTS	STPrjT	WF VDL
14000 ( Hz ) 20000	6 ( in ) 16	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( us ) 20440
MD 1 : 200 m	Gamma Ray	CfRS	DtRS	CfTS	DtTS	TISS
0 ( gAPI ) 250	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( us ) 20440	

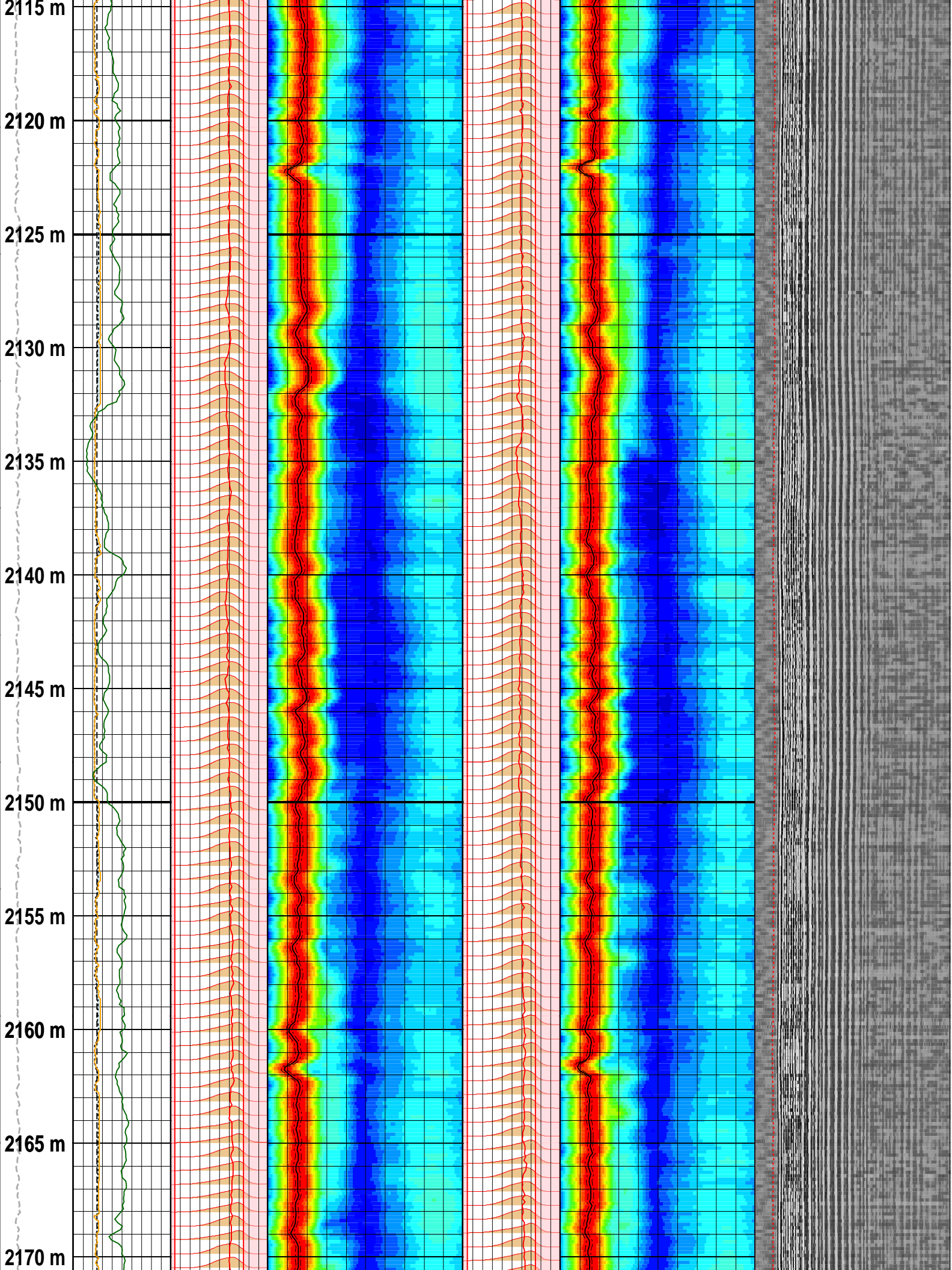


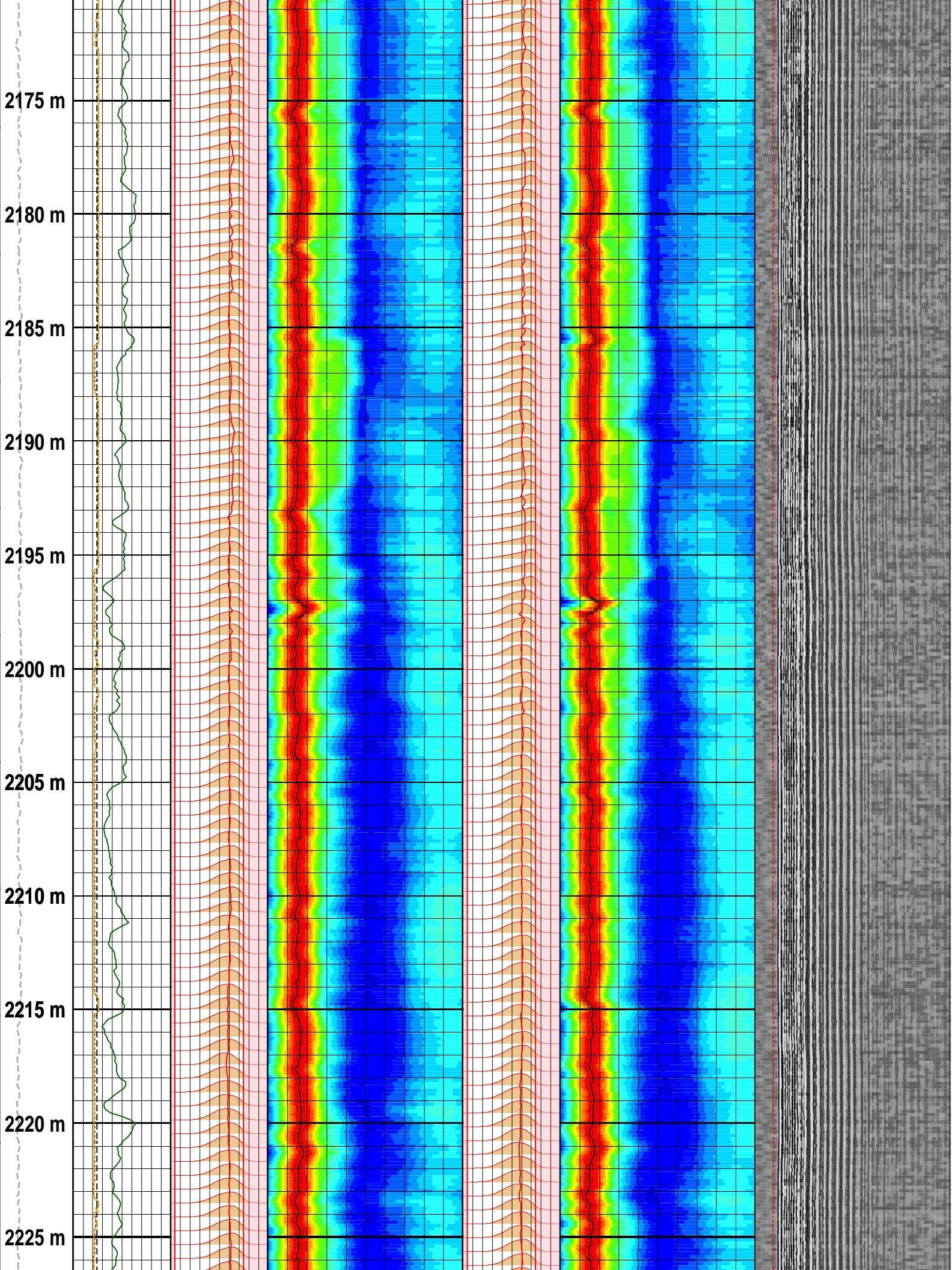




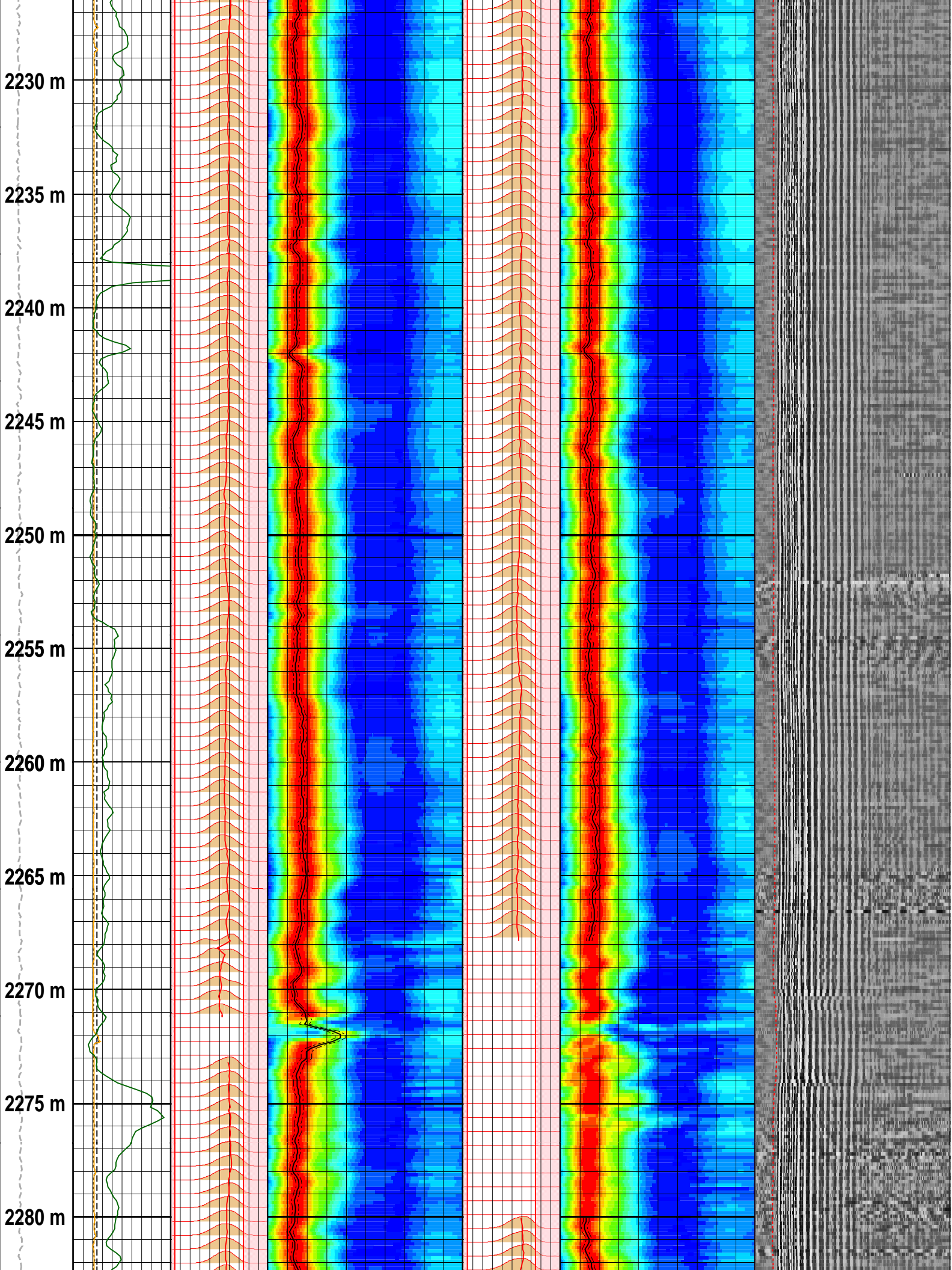


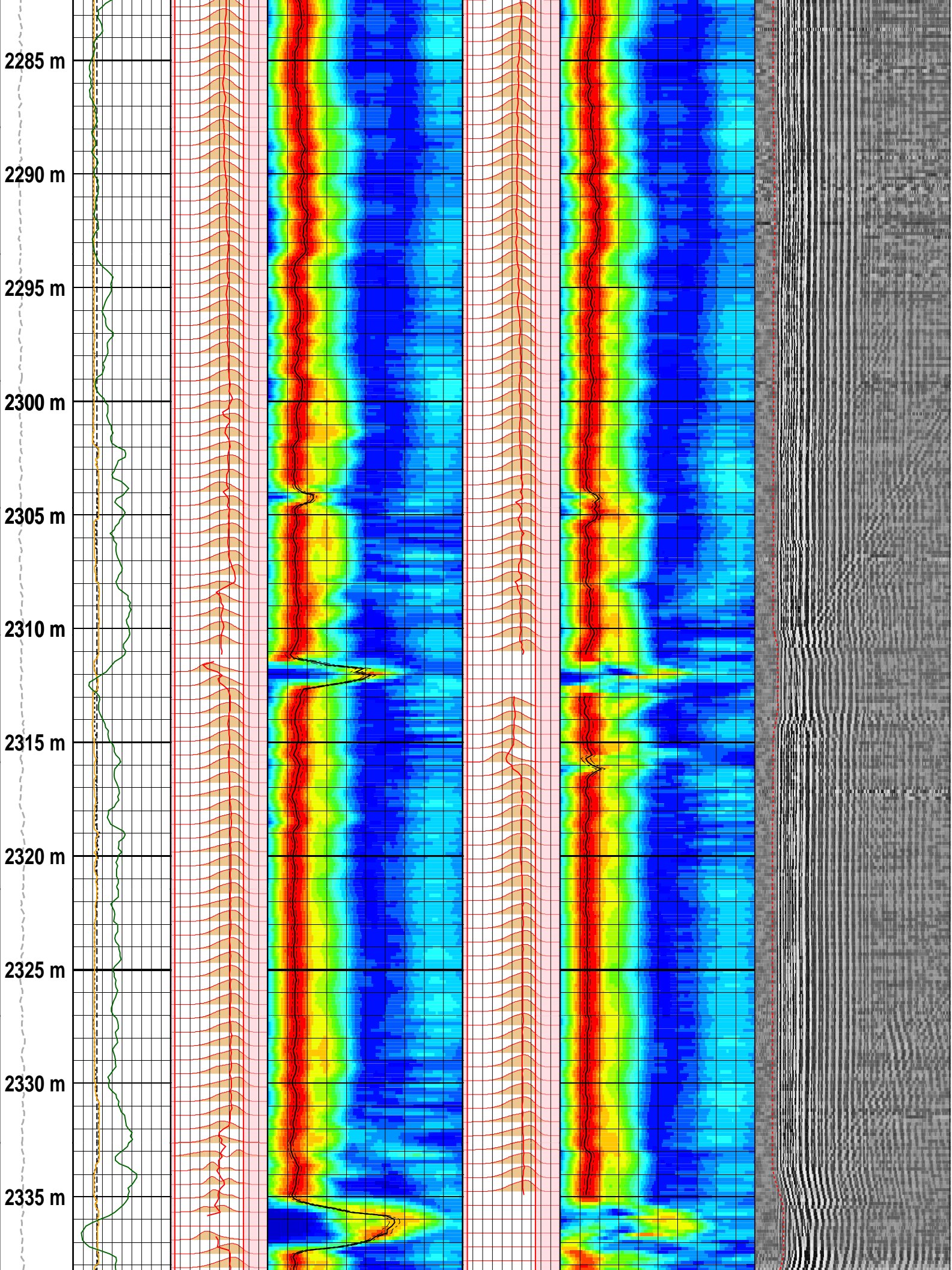




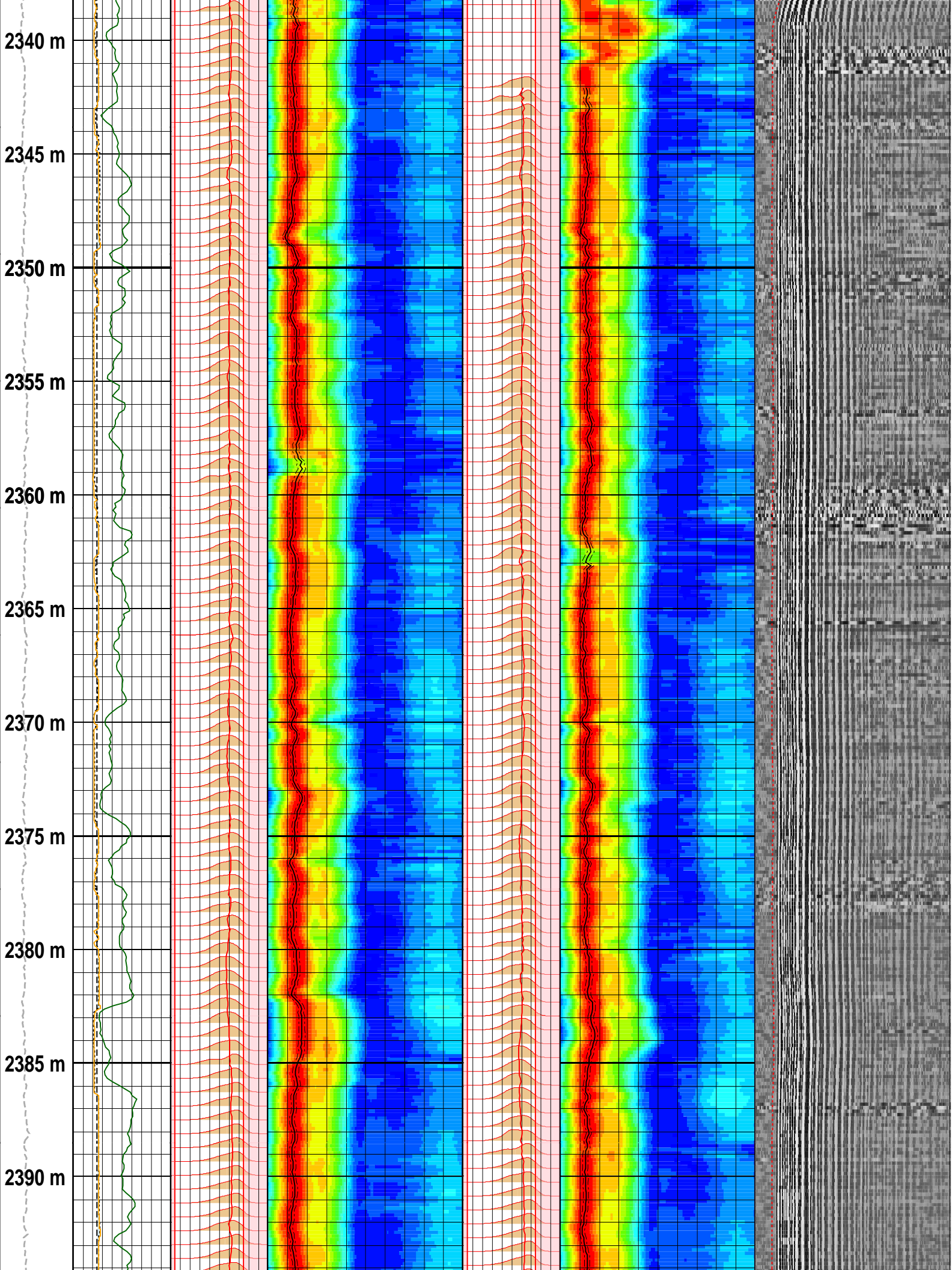


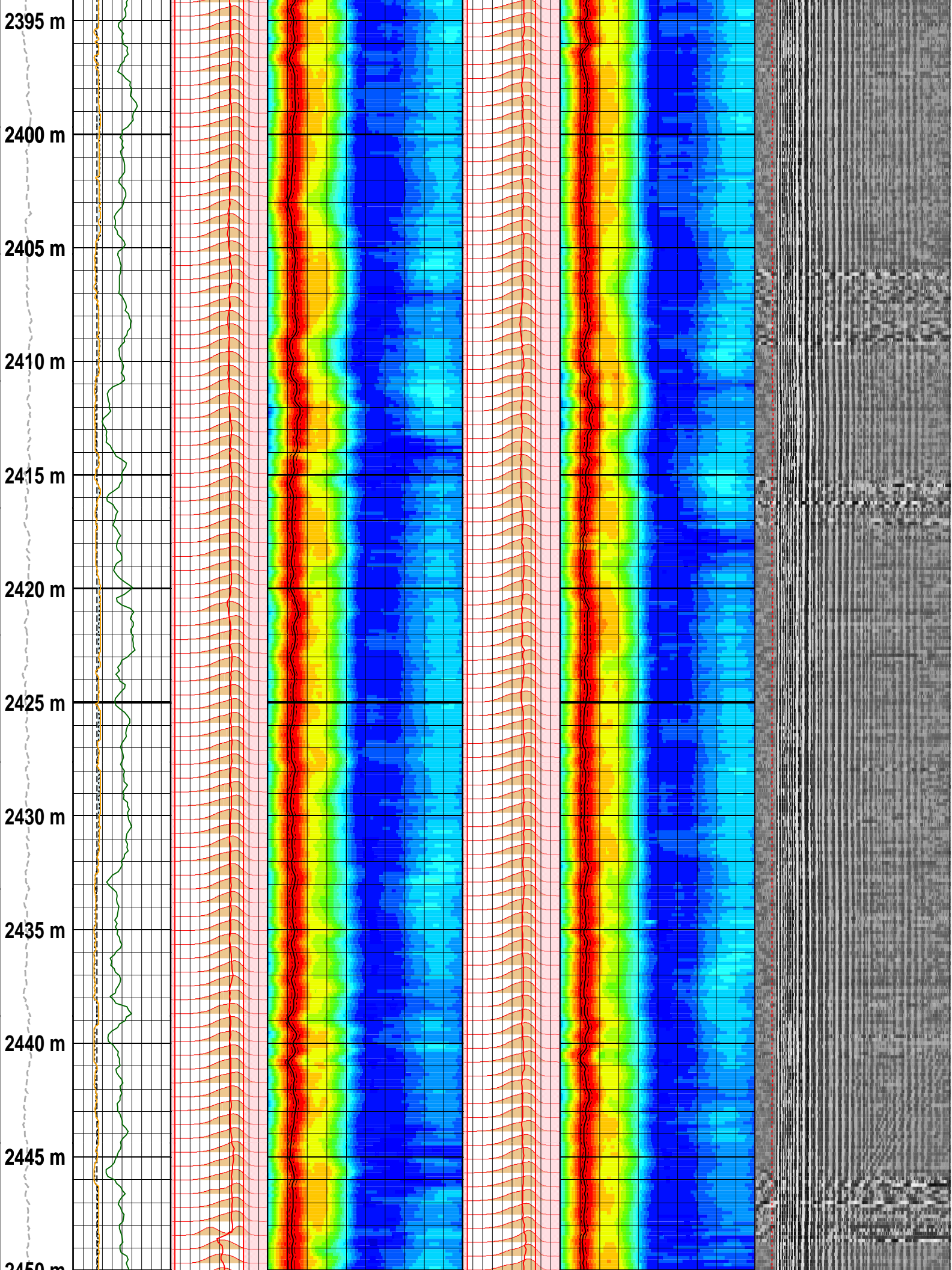




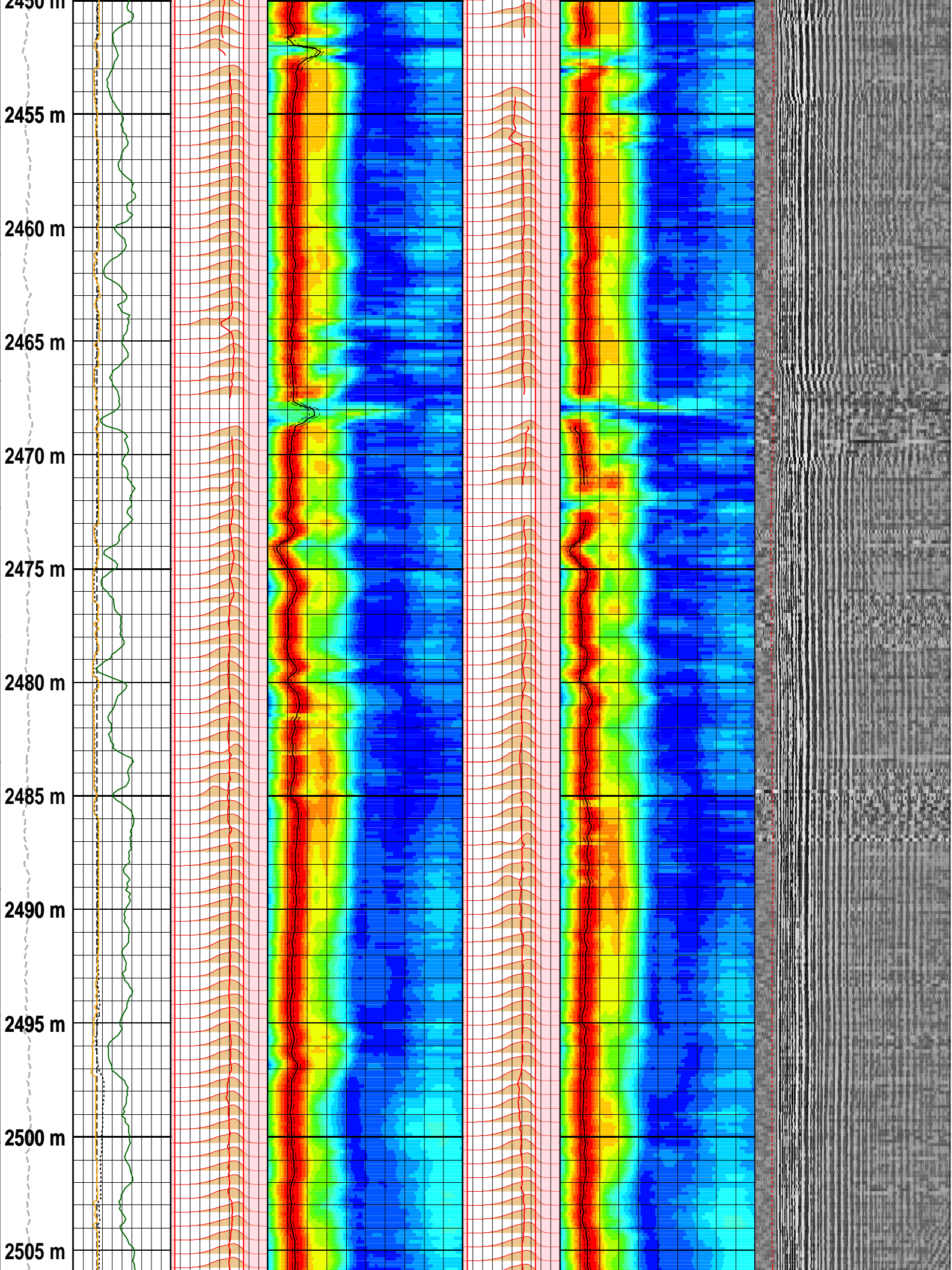


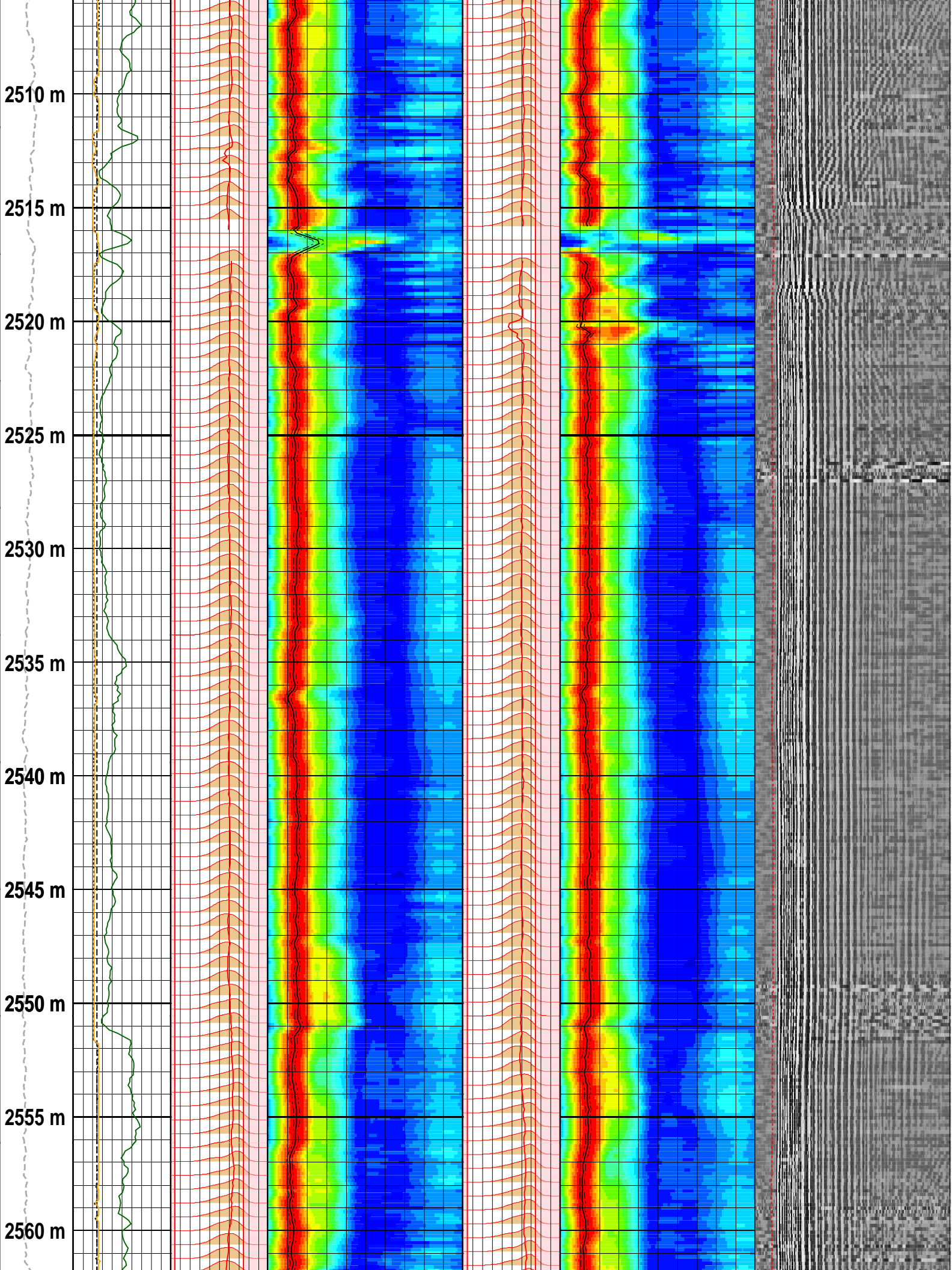




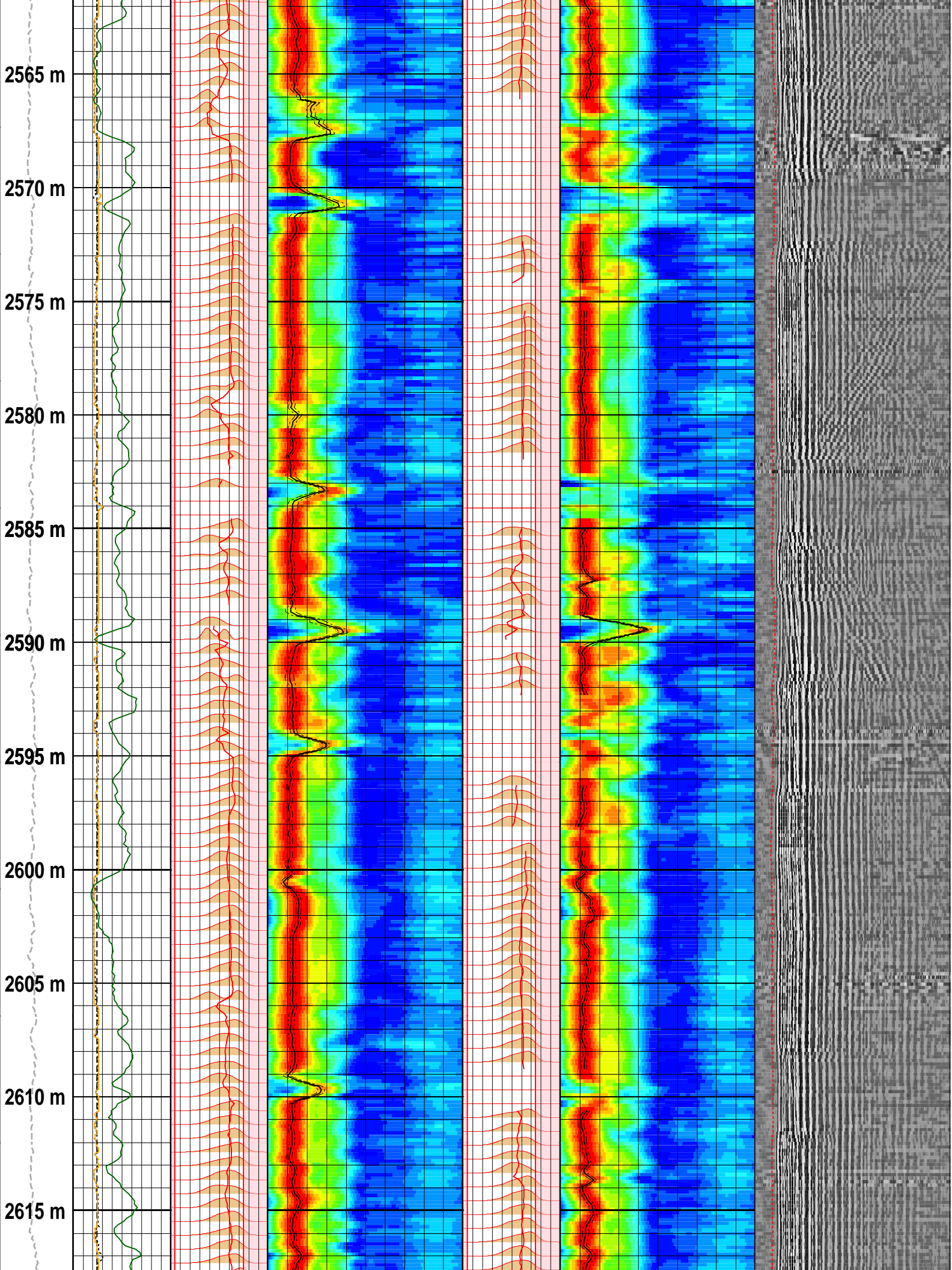


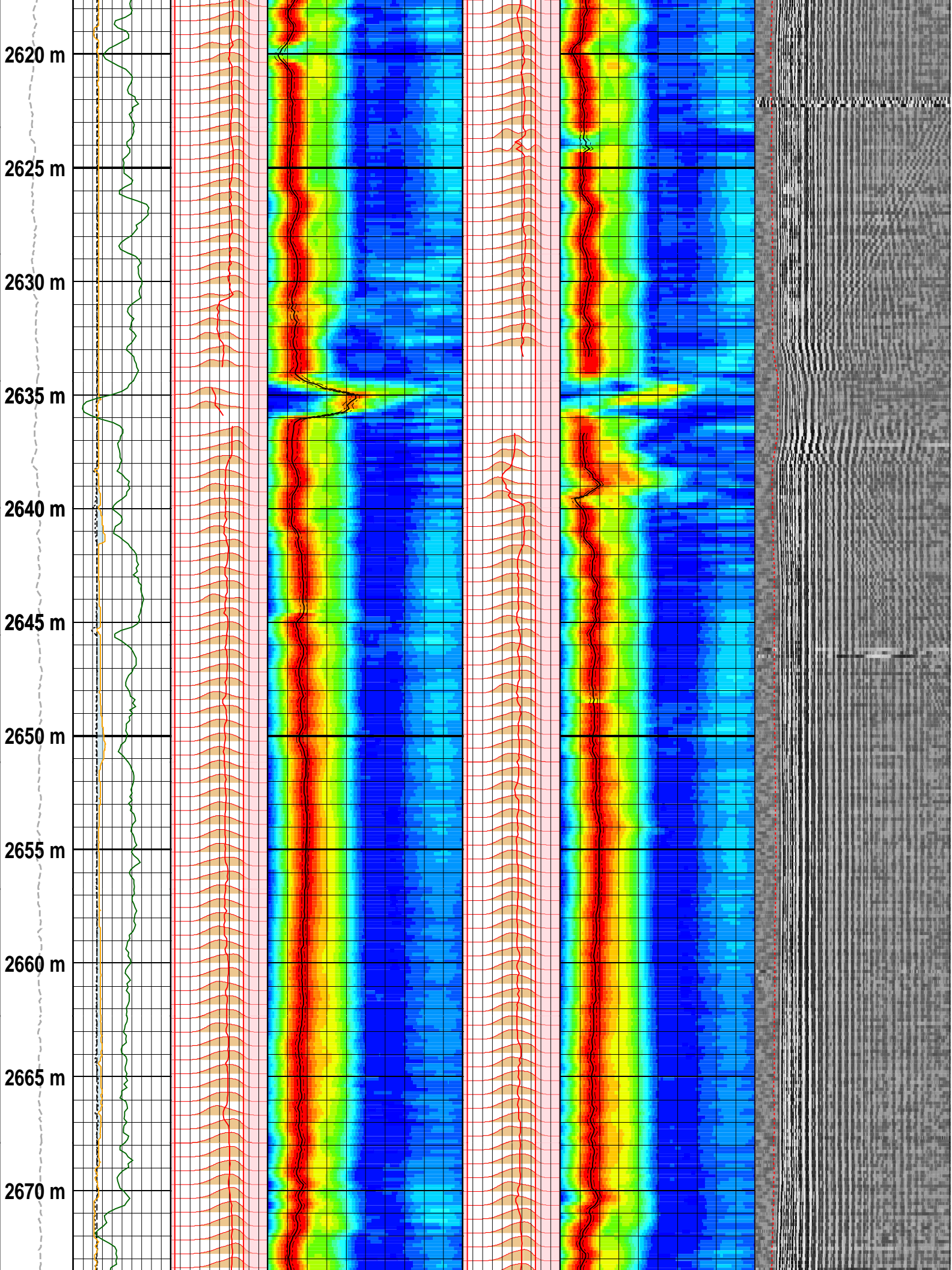




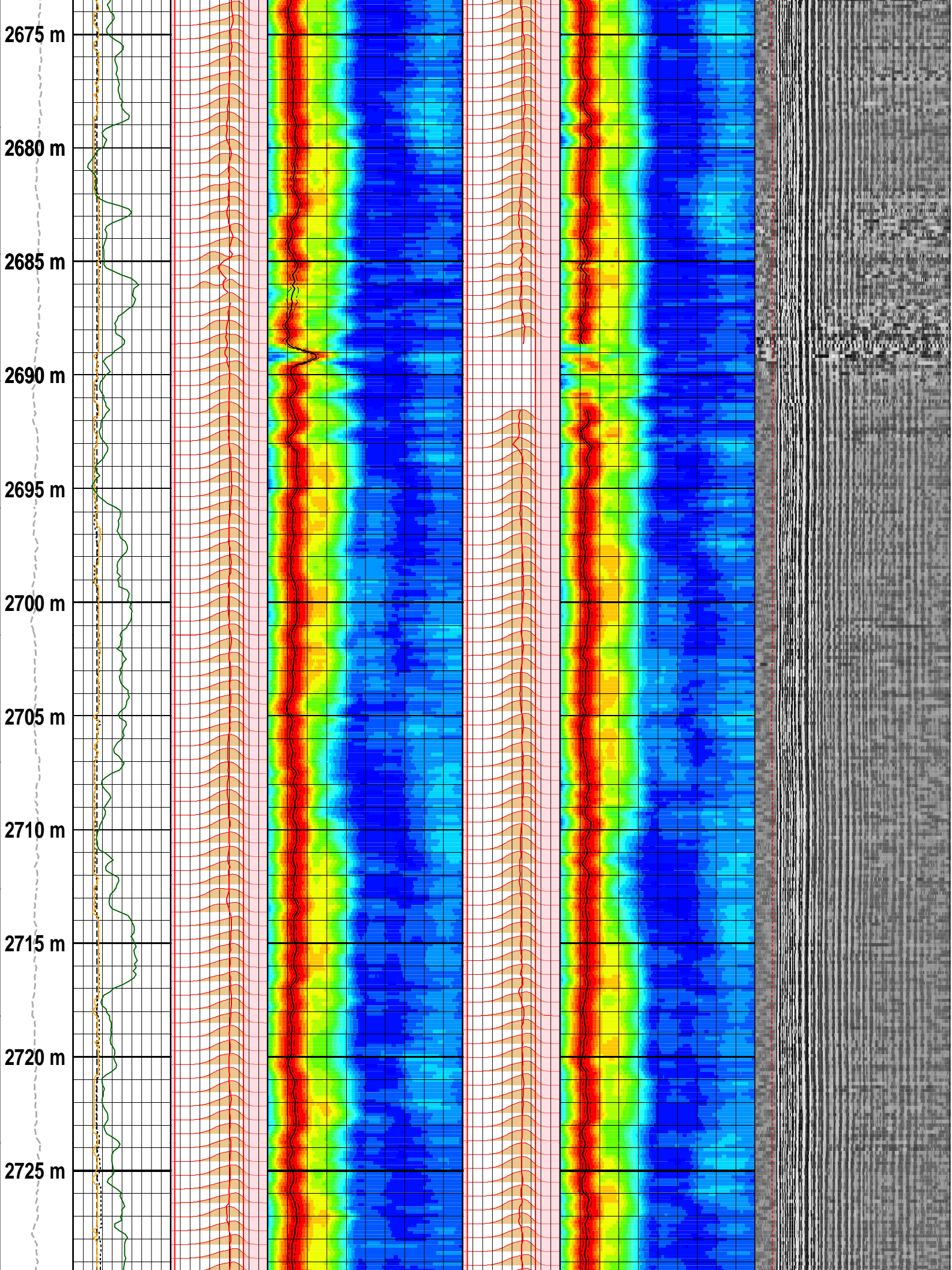


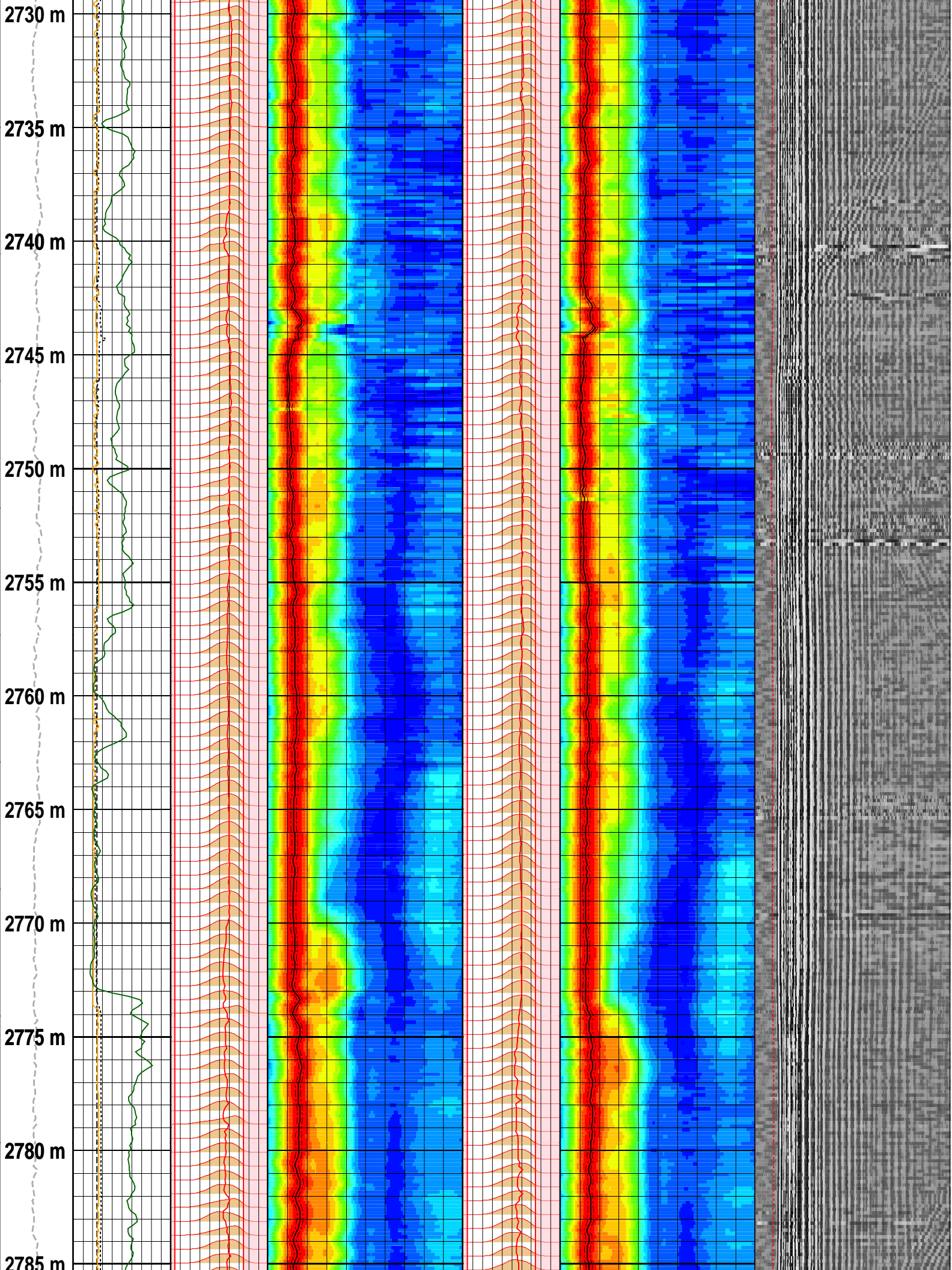




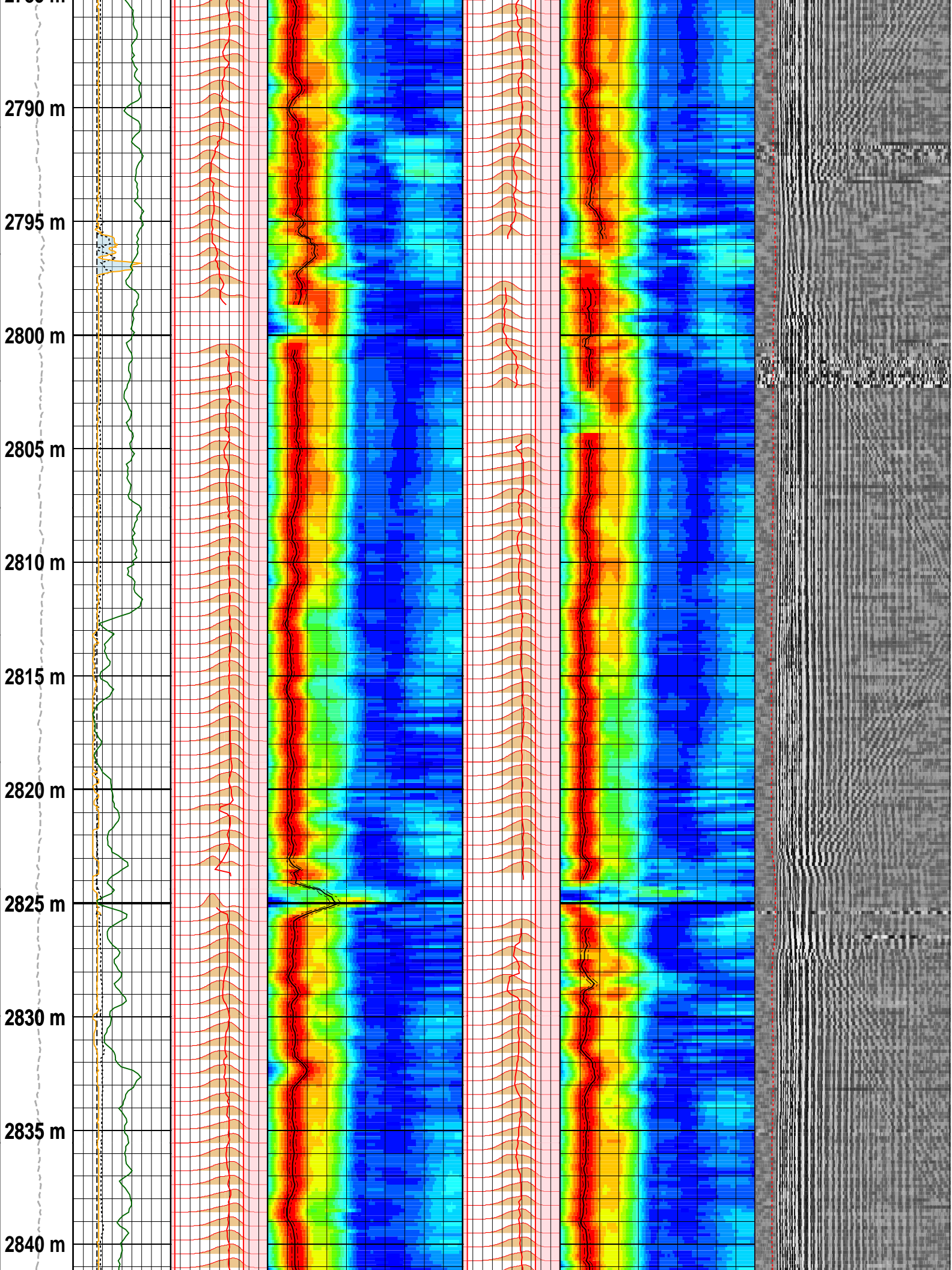


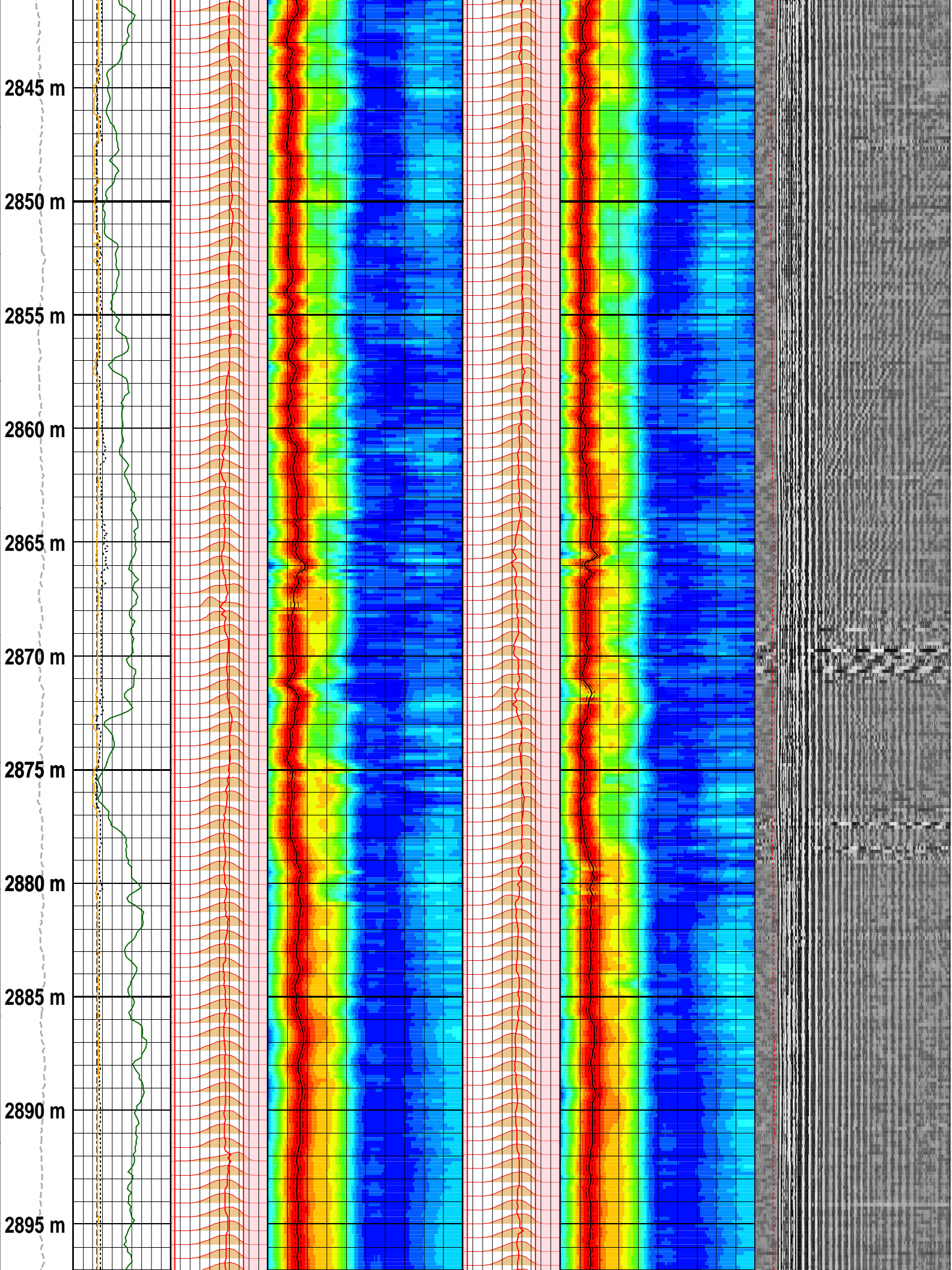




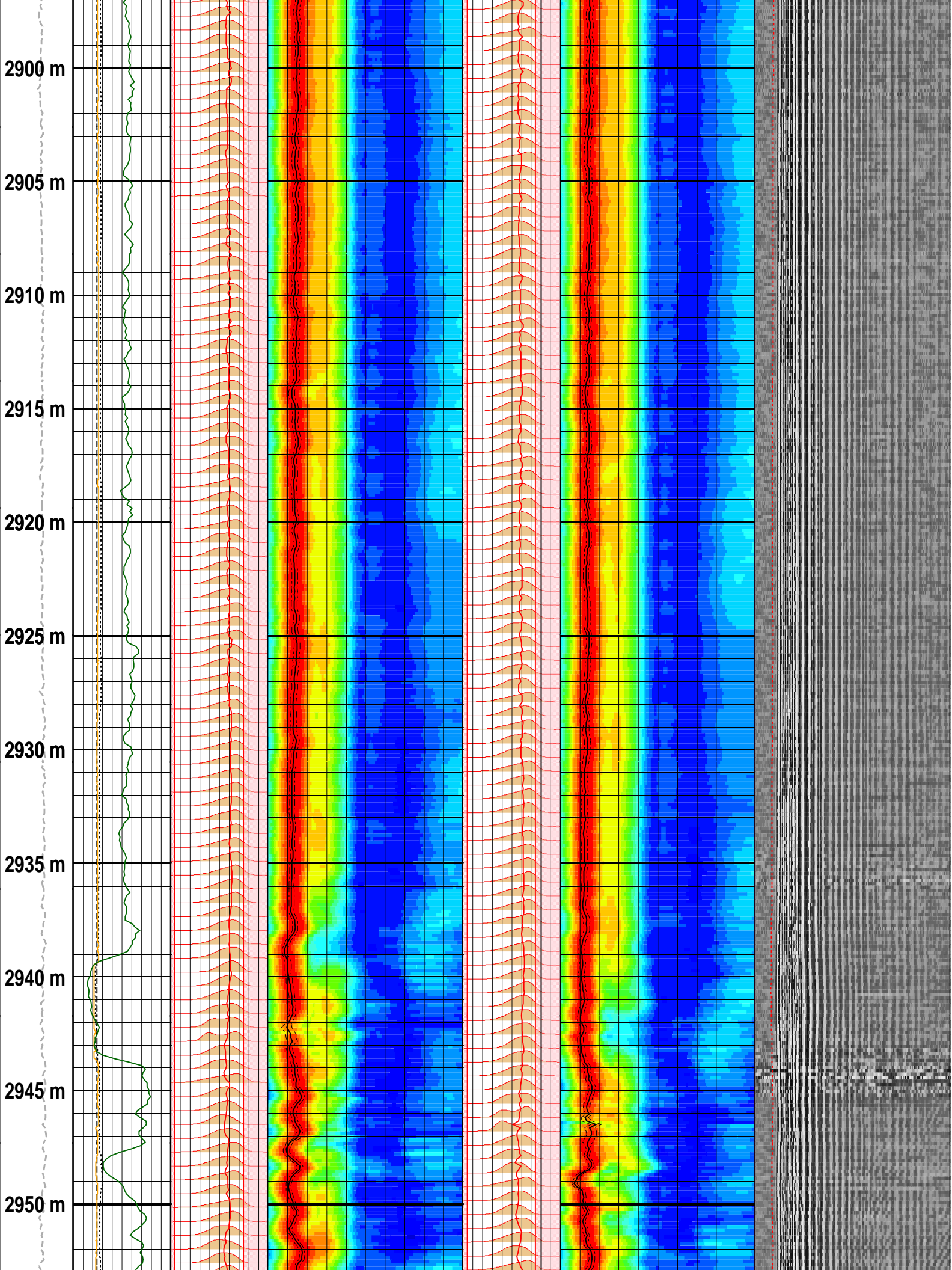


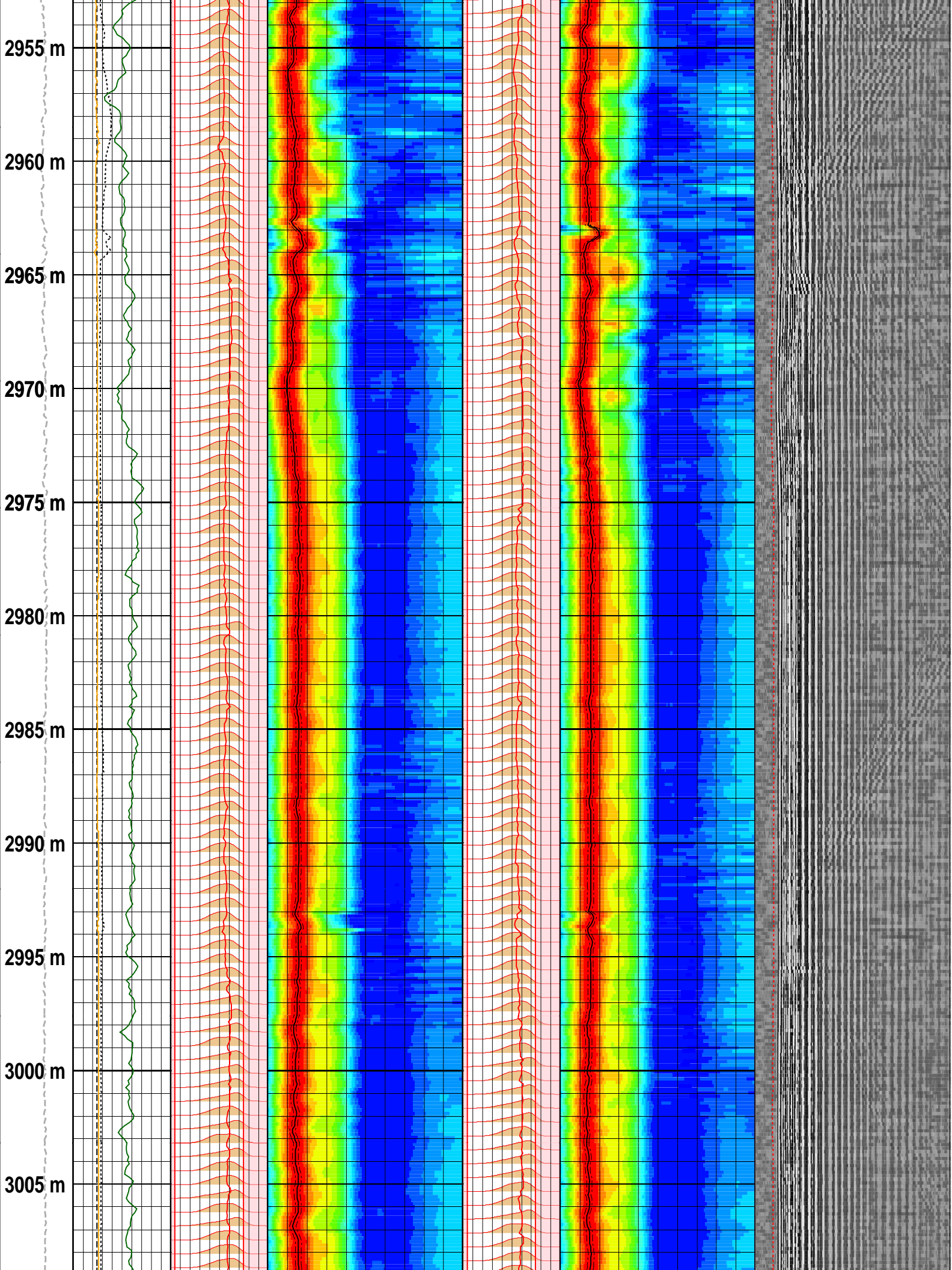




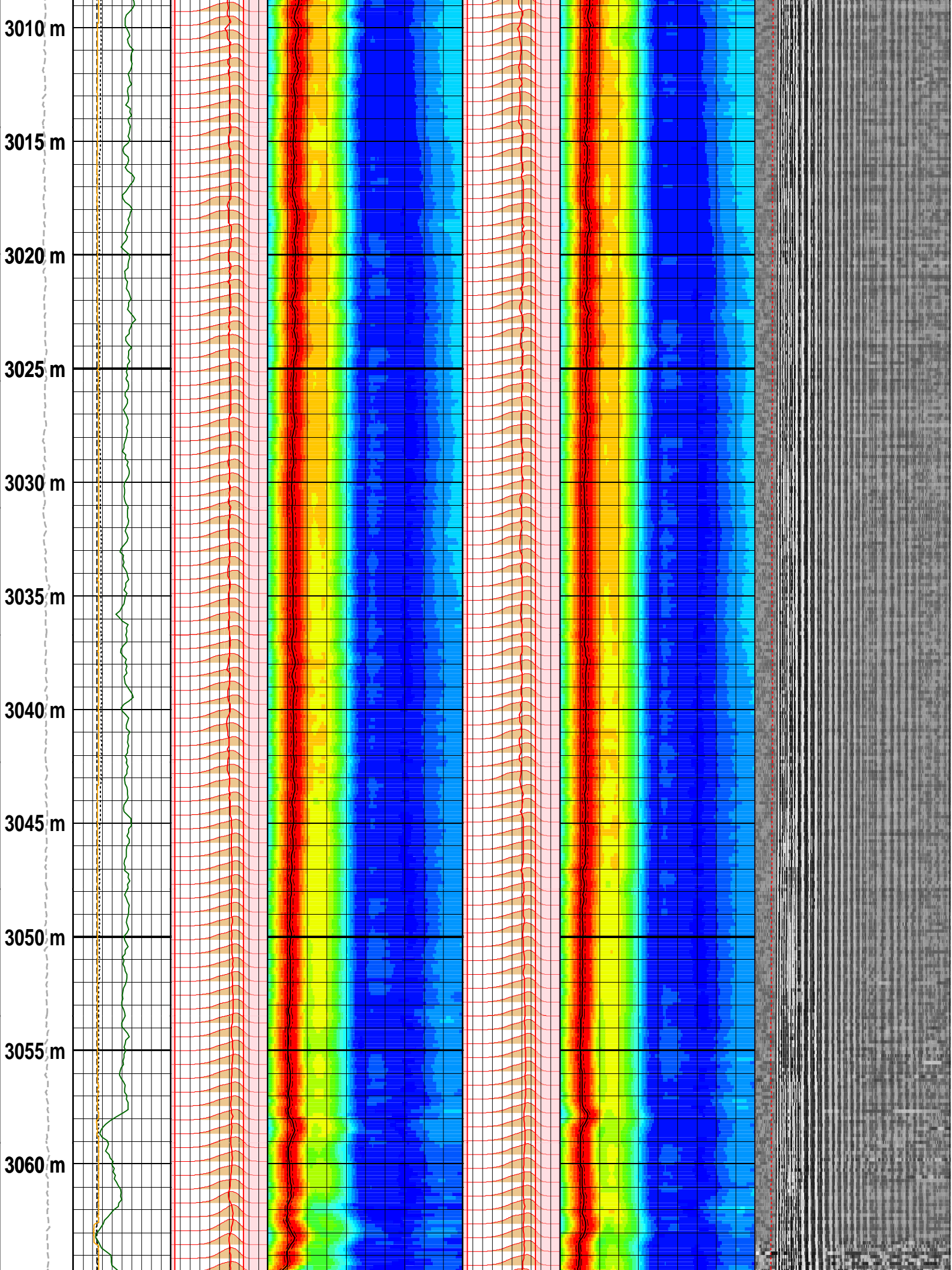


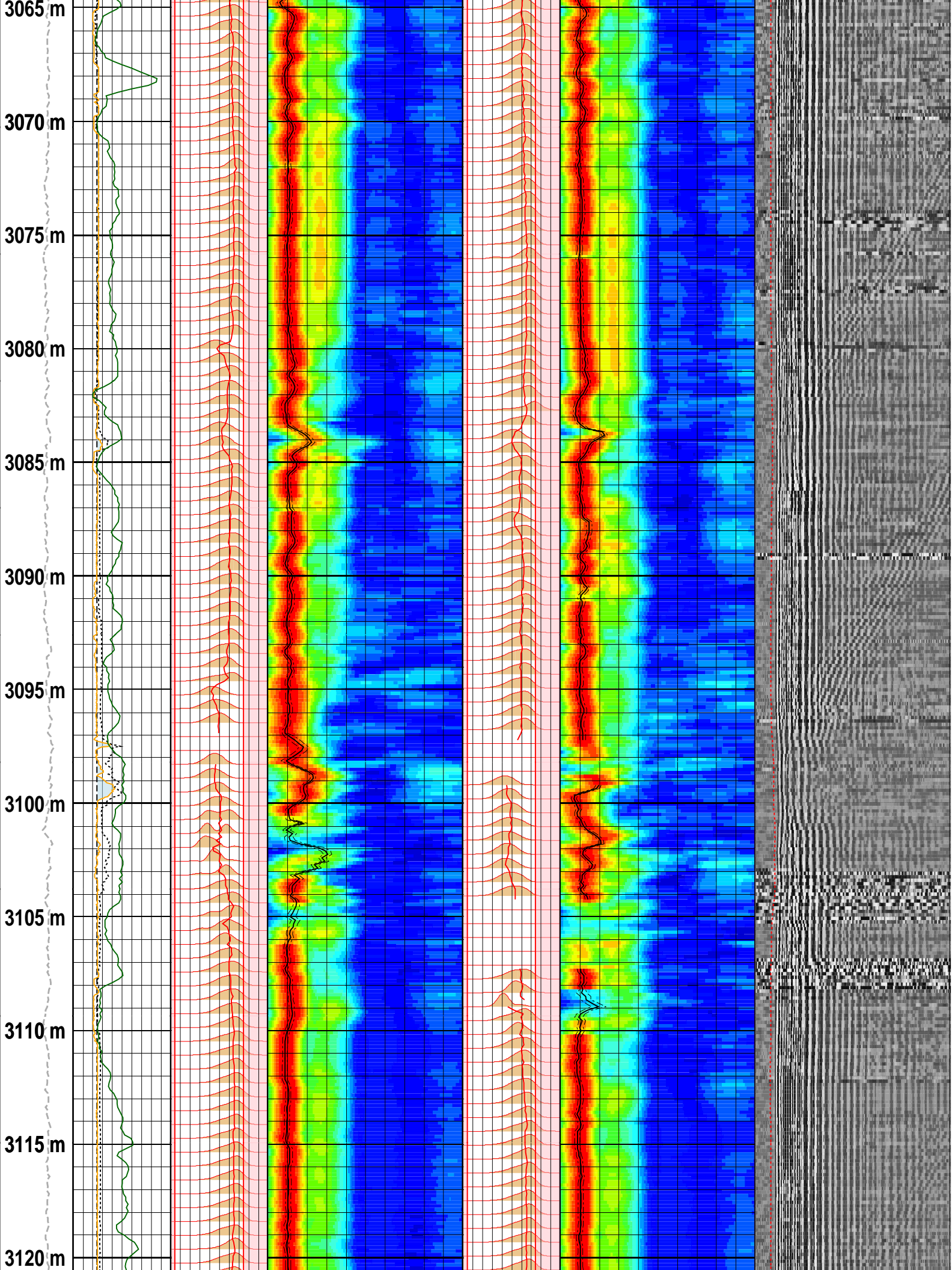




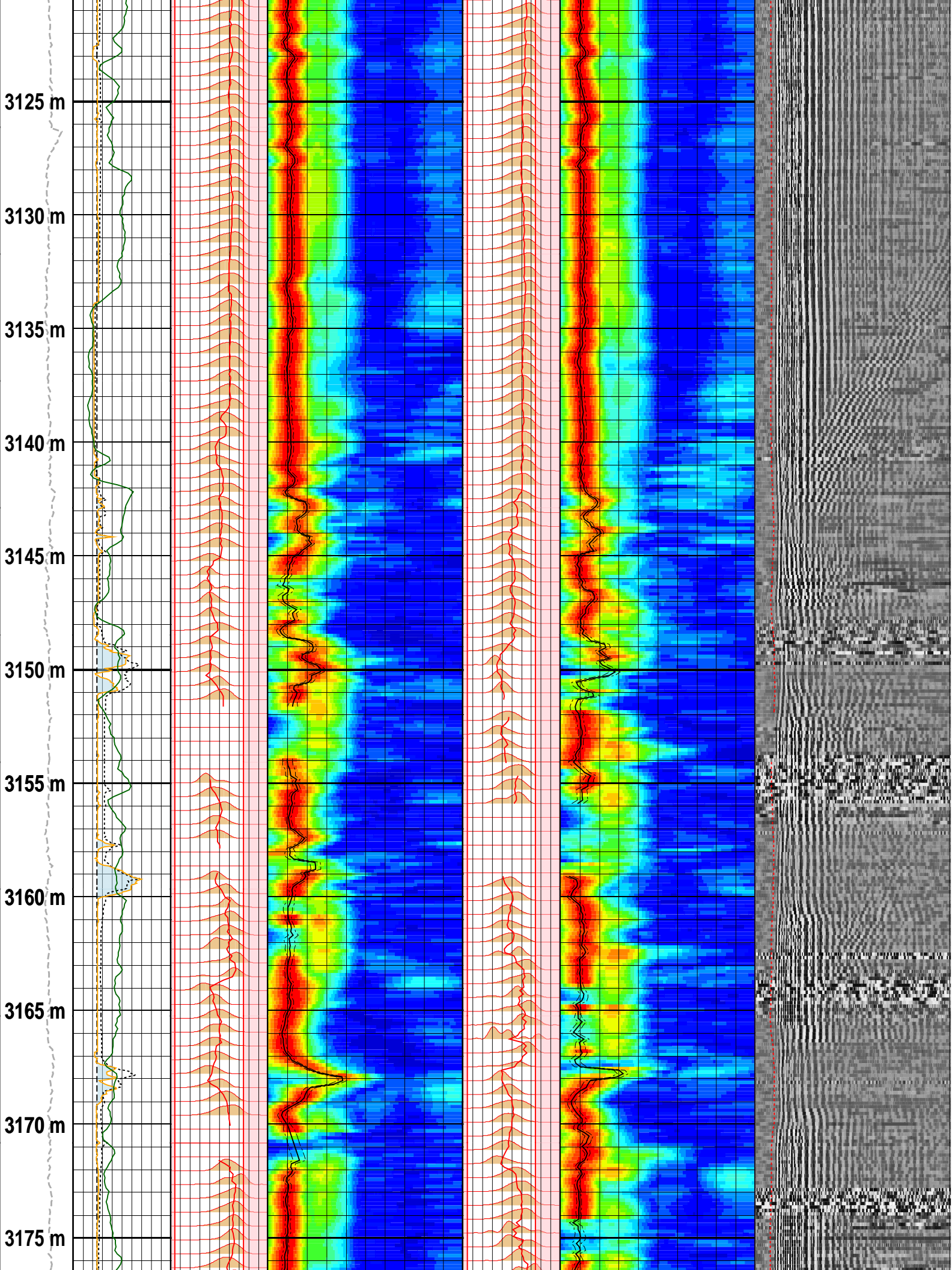


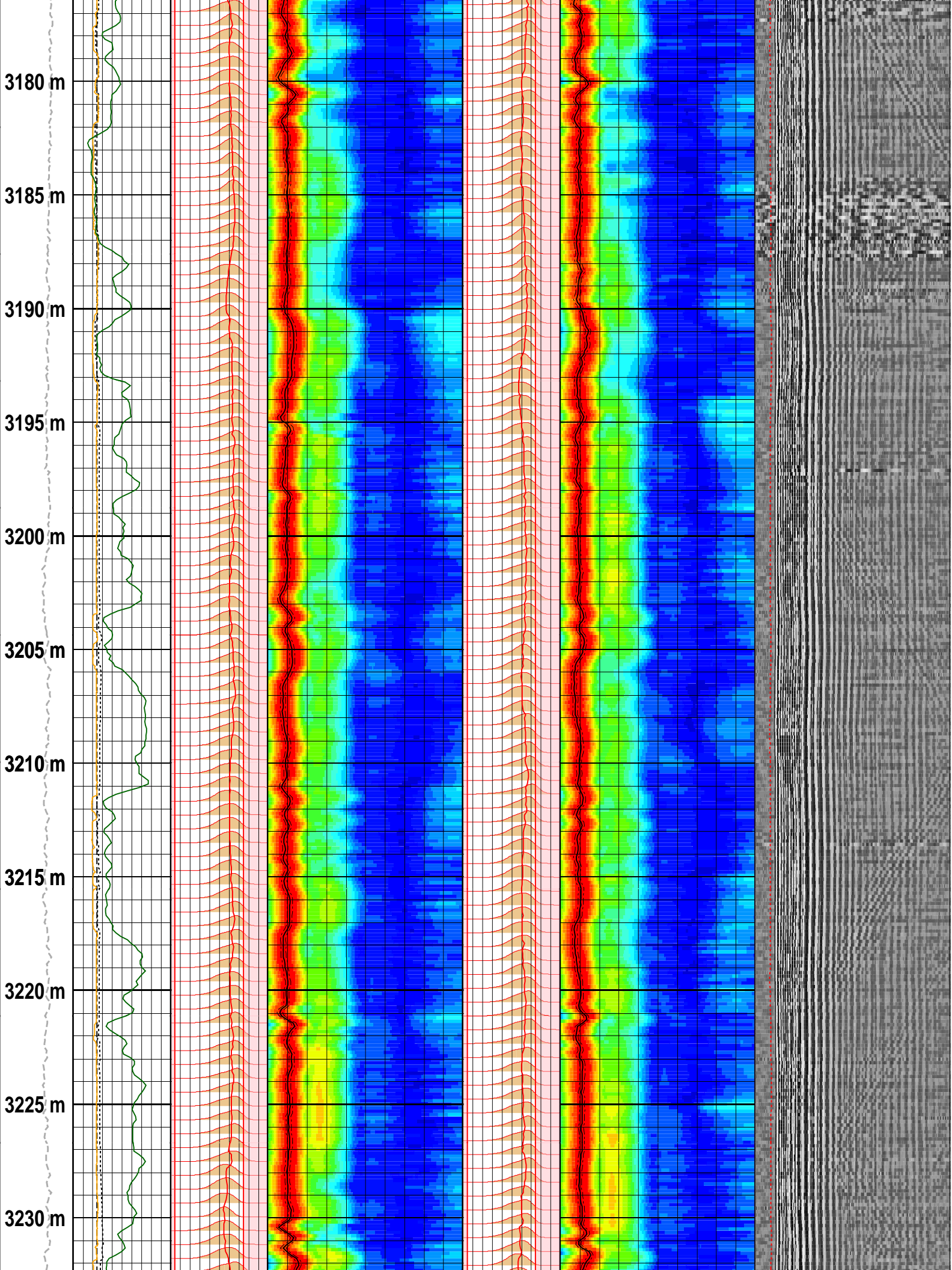




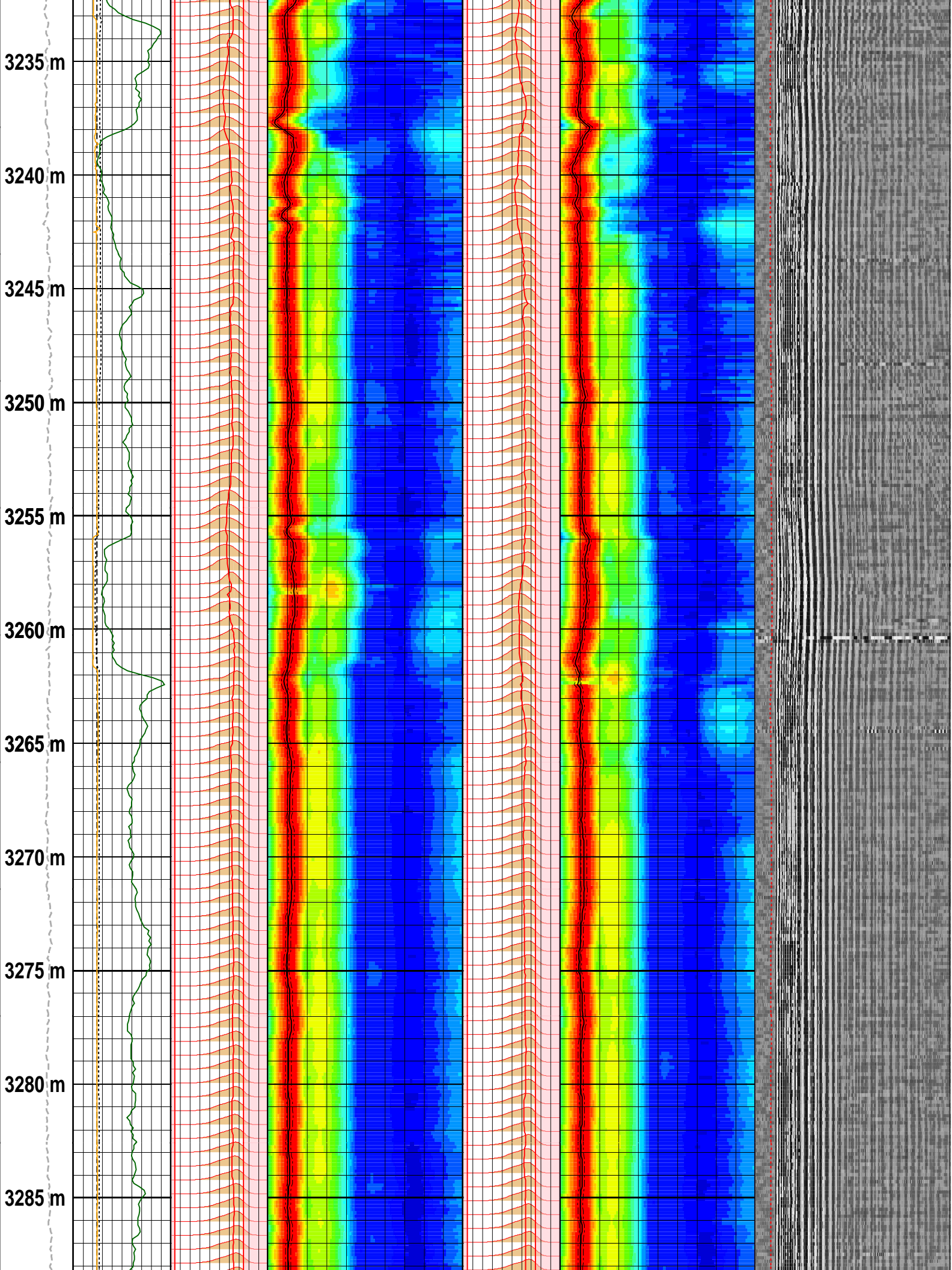


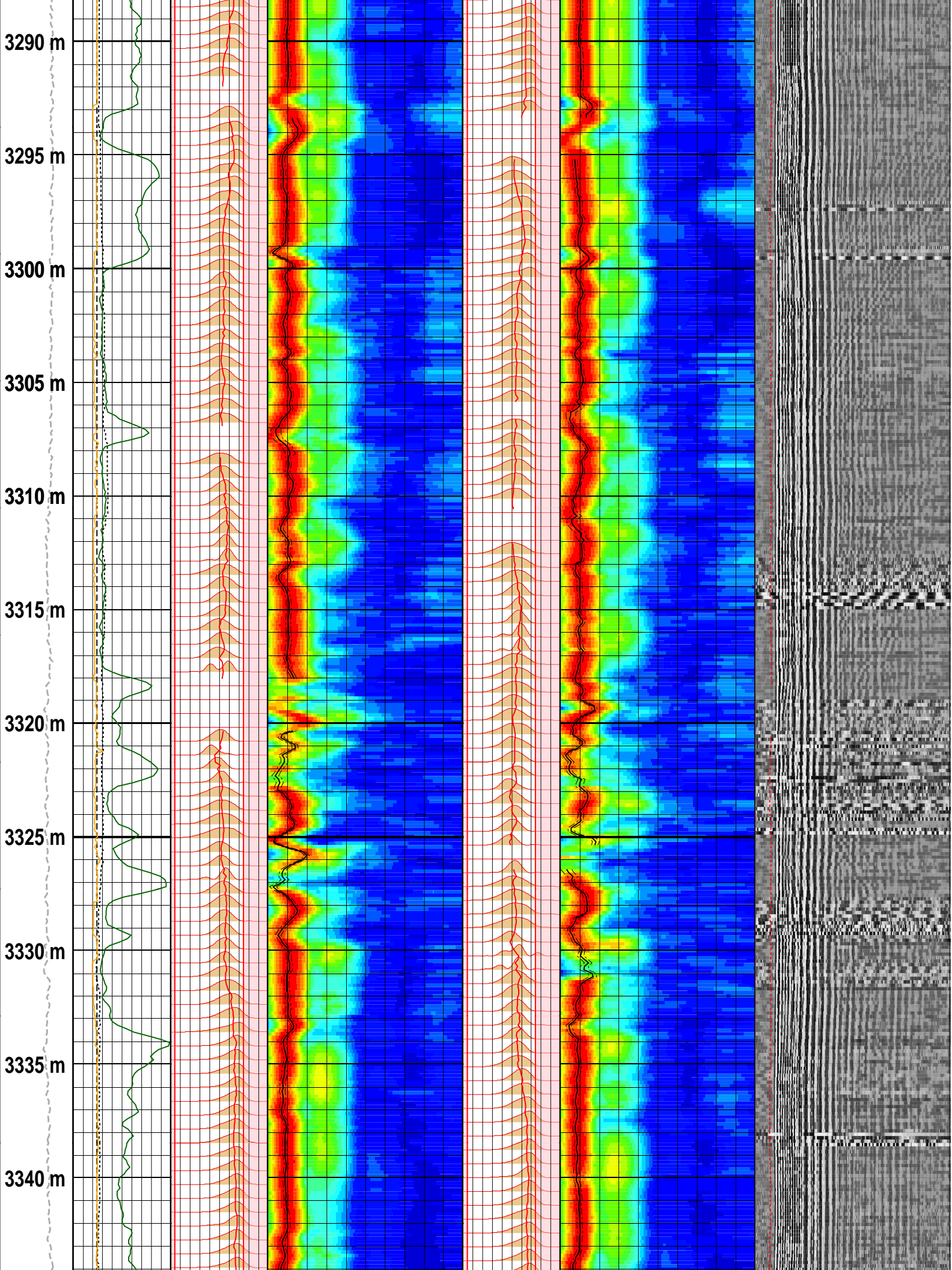




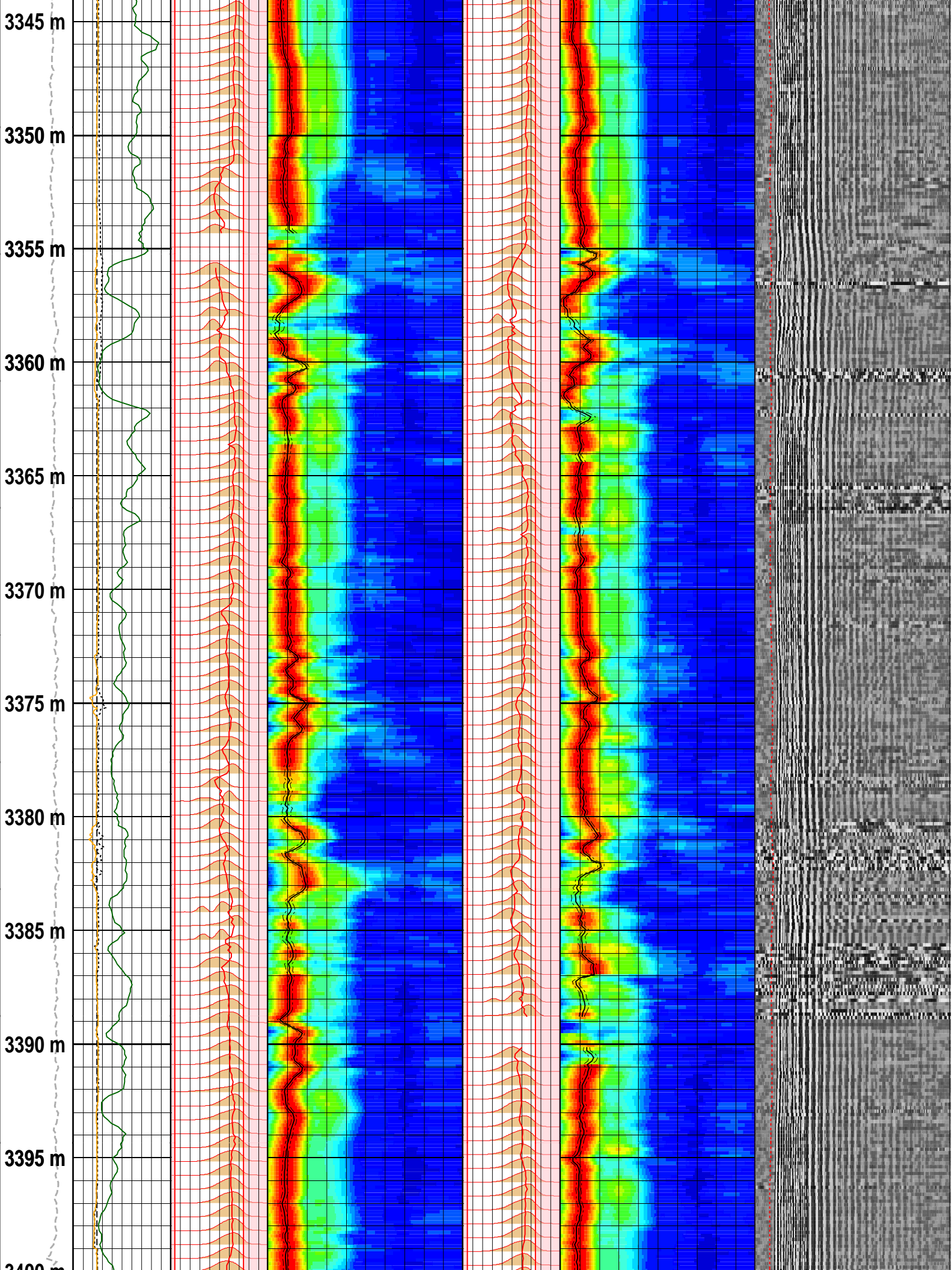


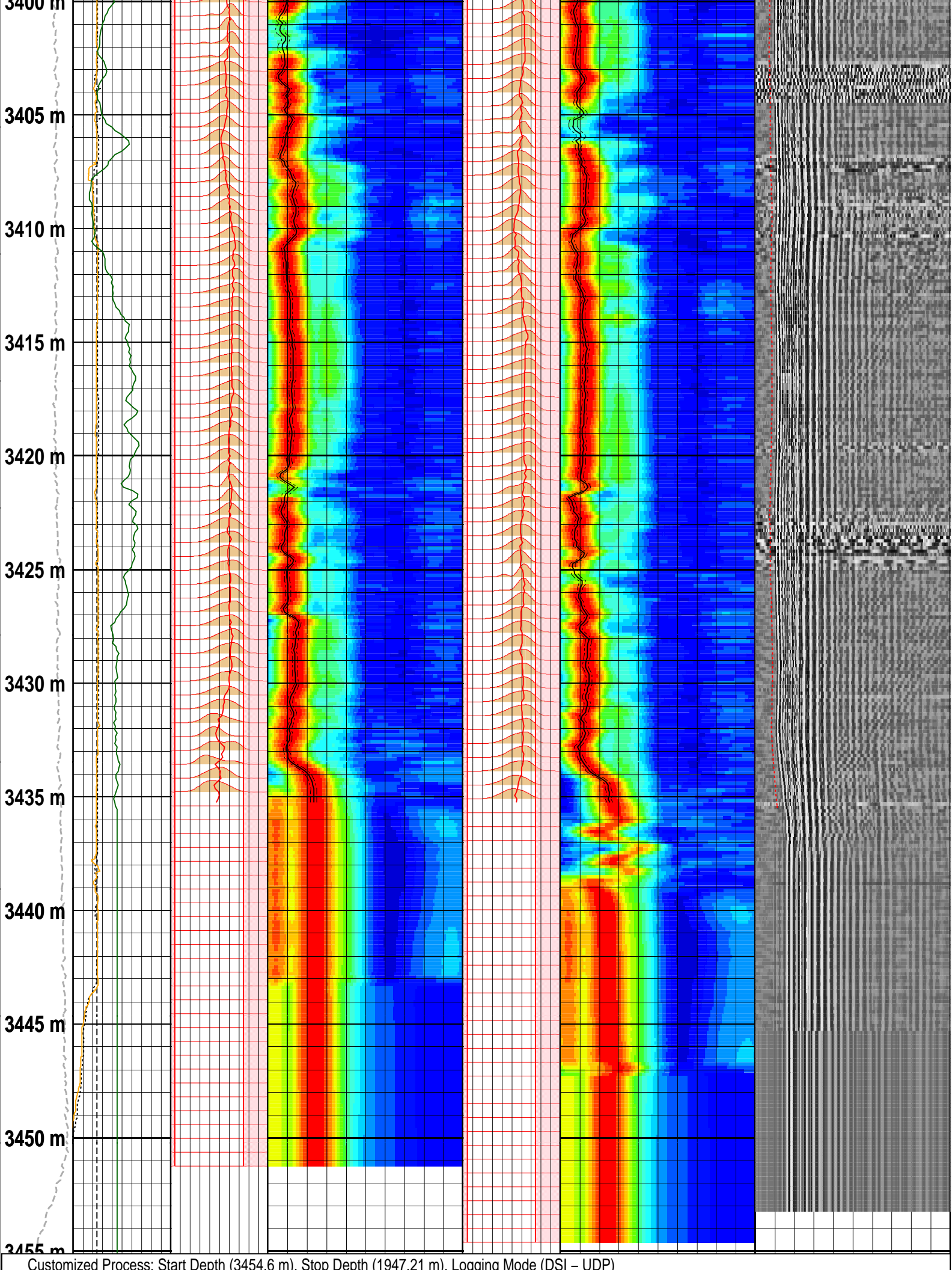














Noise Cut Filtering(No)  
WF\_FLG(1 1 1 1 1 1 1), MUD\_TYPE(WBM), STCAL(Multishot), NRSA(5), ENE\_THRE\_FLG(NO)  
TRSPAC(3.3528), RRSAPAC(0 0.1524 0.3048 0.4572 0.6096 0.762 0.9144 1.0668)  
Mud Slowness (no input)  
Hole Diameter (C1@FMI\_DSI\_031PUP;1 (3459.02 – 1955.03 m))  
Zoning Guide (SLOW@BestDT-3;4 .DTCO .FMD .BDT .BDT (3451.02 – 1946.98 m))  
Tracking Guide (DTRP@BestDT-3;3 .CO .MPS .SWP .BDT (3451.1 – 1947.06 m))

--- Zone Top Depth (0), Zone Name (Zone1) ---  
SFTY(Intermediate), BHS(OPEN), CSIZ(9.625), HDM(C1), HD(8.5), DTMUD(200), DFNM(Vp Based), DFVPVS(2)  
TWI(1512), SLL(80), SUL(540), SST(4), TLL(1008), TUL(12432), TST(336)  
SBW(8040), SBO(1520), SWD(60), TWD(6030), SEM(0.35), Dynamic Filter  
TKO\_MODEL\_ORDER(2), TKO\_TOL(50) TKO\_FLOW(0), TKO\_FHIGH(8000)

MD 1 : 200 m	Gamma Ray	CfRS	DtRS	CfTS	DtTS	TISS
	0 ( gAPI ) 250	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( us ) 20440
TENS TE	Caliper2	SpcRS	STPrjR	SpcTS	STPrjT	WF VDL
140000000 ( N )	6 ( in ) 16	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( Hz ) 5000	80 ( us/ft ) 540	0 ( us ) 20440
	Caliper1					
	6 ( in ) 16					
	Bit Size					
	6 ( in ) 16					
	Wash Out					

Company:

Well:

FIELD:

Rig:

State:

Date Logged:

Well Location:

Elevations:

Origin Energy Resources Ltd

Rockhopper-1 ST1

Rockhopper

Kan Tan IV

TAS

8-Feb-2010

T/18P Bass Basin

DF: 26m

Schlumberger

Date Processed:

17-Apr-2010

GL: -74.3m