



**Company: International Ocean Discovery Program**

Well: **Expedition 401, Site U1609A**

Field: **Mediterranean–Atlantic Gateway Exchange**Rig: **JOIDES Resolution** Country: **Portugal**

Rig: JOIDES Resolution Field: Mediterranean–Atlantic Gateway Location: Latitude: N 37° 22.6259' Well: Expedition 401, Site U1609A Company: International Ocean Discovery Program	HNGS, DSI Gamma, Sonic			
	LOCATION	Latitude: N 37° 22.6259' Longitude: W 09° 35.9120'		Elev.: K.B. 0.00 m G.L. –1670.50 m D.F. 0.00 m
		Permanent Datum: Sea Floor		Elev.: –1670.50 m
		Log Measured From: Rig Floor		1670.50 m above Perm. Datum
		Drilling Measured From: Rig Floor		
Ocean: Atlantic Ocean		Max. Well Deviation 0 deg	Longitude W 09° 35.9120'	Latitude N 37° 22.6259'

Logging Date			23-Dec-2023					
Run Number			3					
Depth Driller			2280.5 m					
Schlumberger Depth			2260 m					
Bottom Log Interval			2260 m					
Top Log Interval			1660 m					
Casing Driller Size @ Depth			0.000 in @ 0 m			@		
Casing Schlumberger			0 m					
Bit Size			9.875 in					
Type Fluid In Hole			Seawater					
MUD	Density	Viscosity	9 lbm/gal					
	Fluid Loss	PH		8.07				
	Source Of Sample		Mudpit					
RM @ Measured Temperature			0.220 ohm.m @ 23 degC			@		
RMF @ Measured Temperature			@			@		
RMC @ Measured Temperature			@			@		
Source RMF	RMC		N/A	N/A				
RM @ MRT	RMF @ MRT		0.321 @ 9	@ 9	@	@		
Maximum Recorded Temperatures			9 degC					
Circulation Stopped		Time	22-Dec-2023		21:00			
Logger On Bottom		Time	23-Dec-2023		19:15			
Unit Number		Location	627314 Larose, LA					
Recorded By			K. Garrett					
Witnessed By			B. Rhinehart					


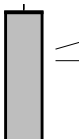

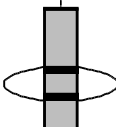
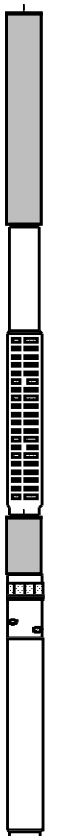

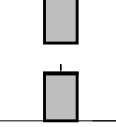

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Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth		@		
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
MUD	Density	Viscosity		
	Fluid Loss	PH		
	Source Of Sample			
RM @ Measured Temperature		@		
RMF @ Measured Temperature		@		
RMC @ Measured Temperature		@		
Source RMF	RMC			
RM @ MRT	RMF @ MRT	@	@	
Maximum Recorded Temperatures				
Circulation Stopped		Time		
Logger On Bottom		Time		
Unit Number	Location			
Recorded By				
Witnessed By				

**DISCLAIMER**

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[illegible]

EDTC-B EDTH-B 8226 EDTC-B 8081 EDTG-A/B 79159	SPW Gamma Ray EFTB DIAG TelStatus EDTCB Ele		24.93 24.58	26.57
HNGS-BA HNGS-BA 177 HNSH-BA 174	Upper_1 Lower_2		23.88 23.67	24.58
HNGC-B HNGH-A 115	HNGC Stat		21.55	22.09
AH-MCD AH-MCD 82				21.02
DSST-B SPAC-B 8128 ECH-SD 8127 SMDR-BD 8227 SSIJ-BA 8204 SMDX-AA 8131				18.74
	PWF		3.19	
AH-MCD1 AH-MCD1 1				3.19
AH-GoDev AH-GoDev	DF ACCZ Tension HV		0.00	0.91

MAXIMUM STRING DIAMETER 3.75 IN  
 MEASUREMENTS RELATIVE TO TOOL ZERO  
 ALL LENGTHS IN METERS

Schlumberger

Downlog

MAXIS Field Log

Input DLIS Files

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Output DLIS Files

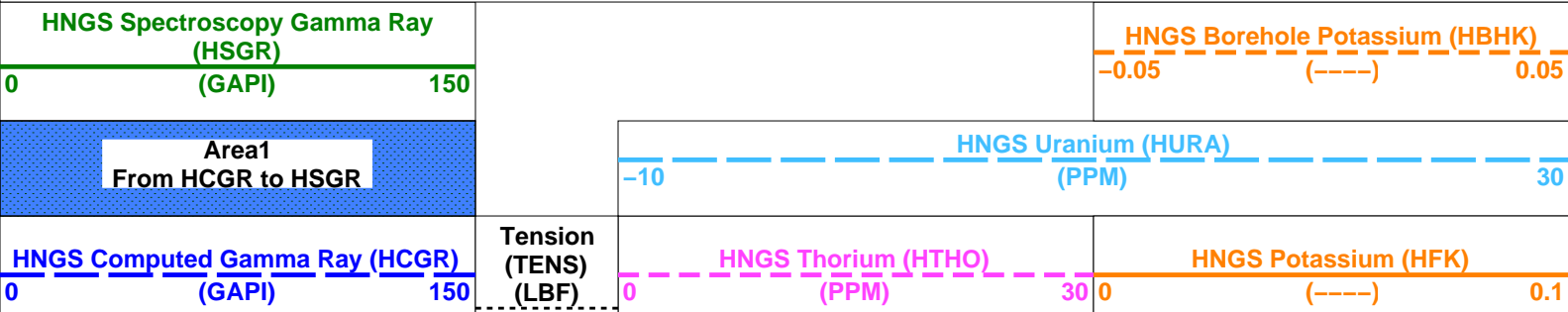
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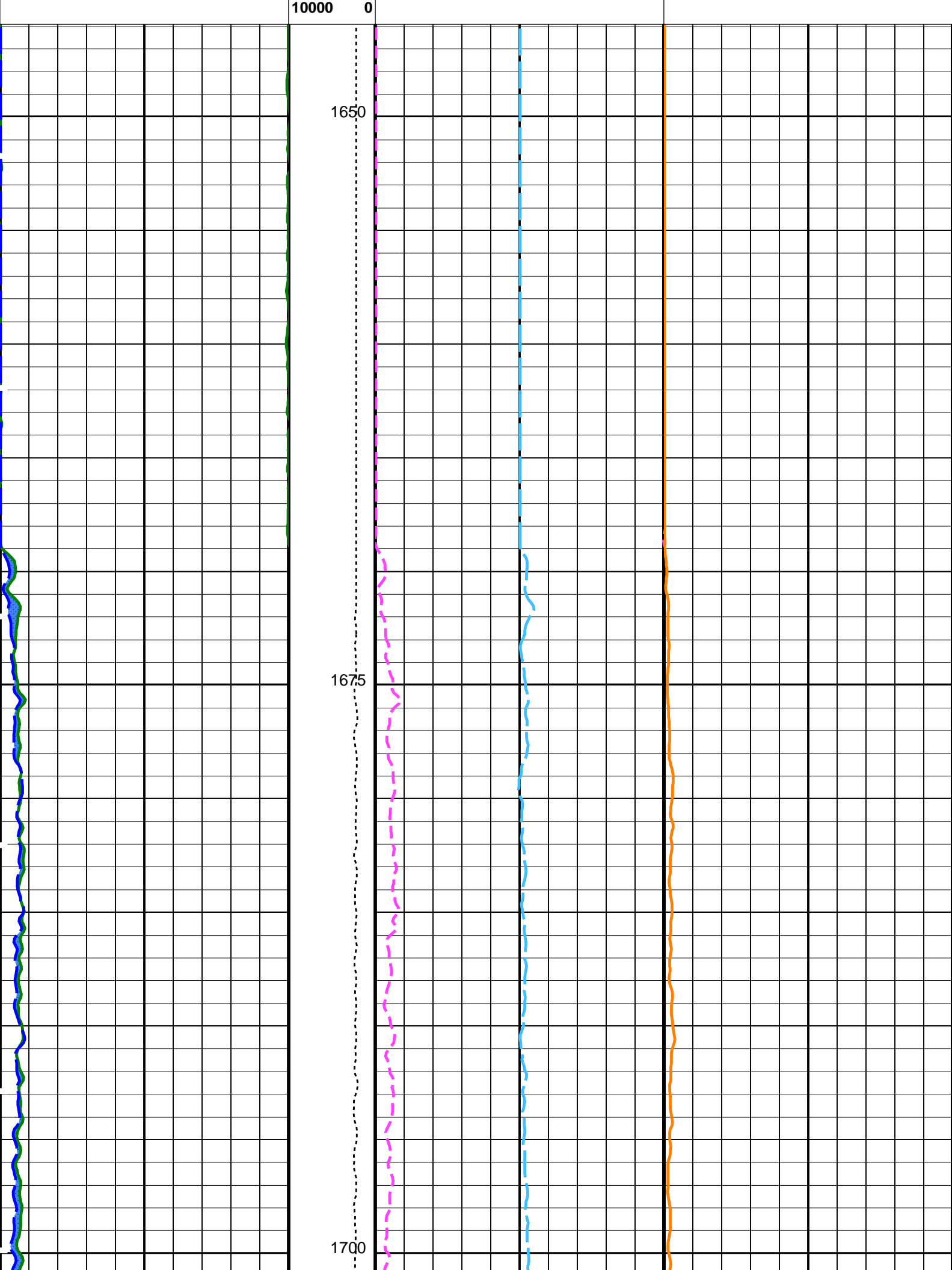
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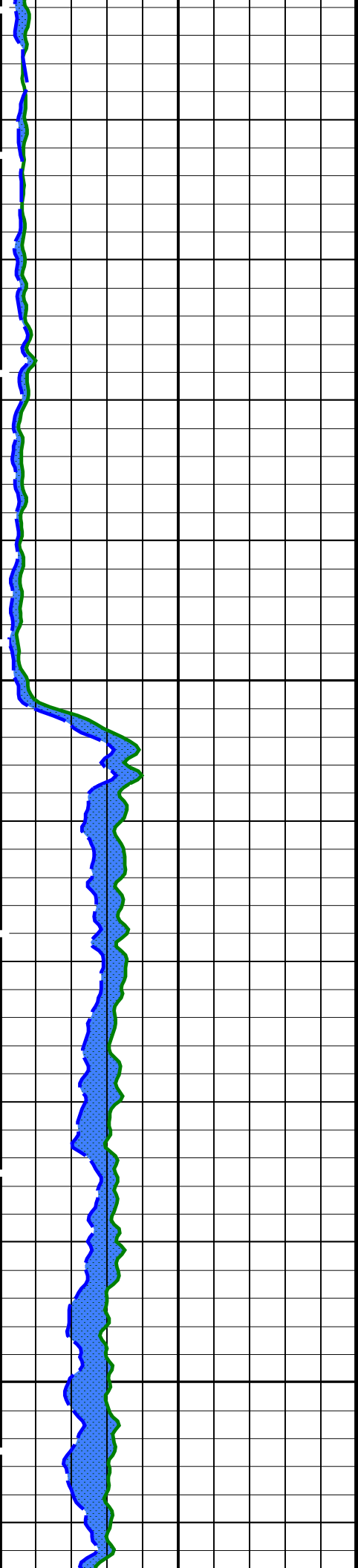
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HNGS-BA 19C0-187 EDTC-B 19C0-187

PIP SUMMARY

Time Mark Every 60 S

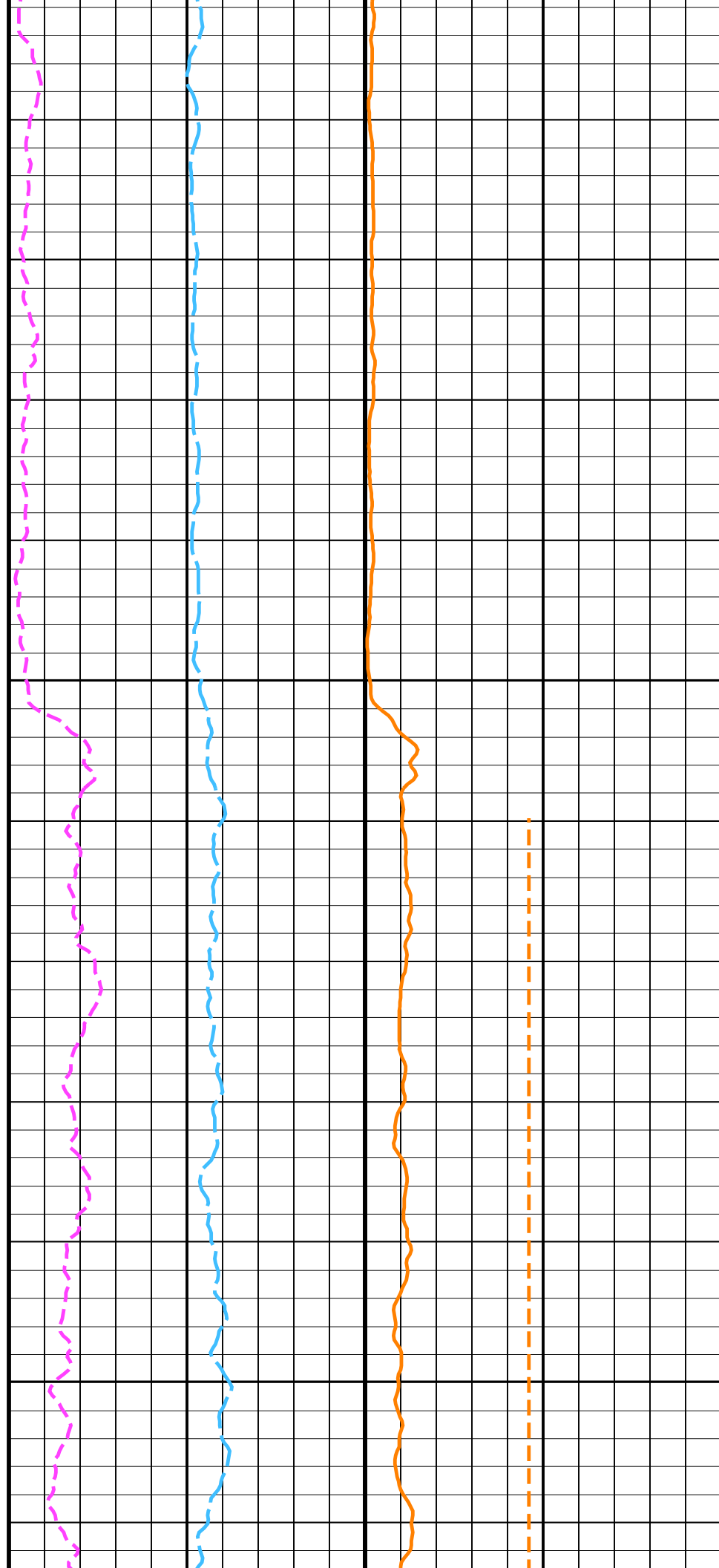


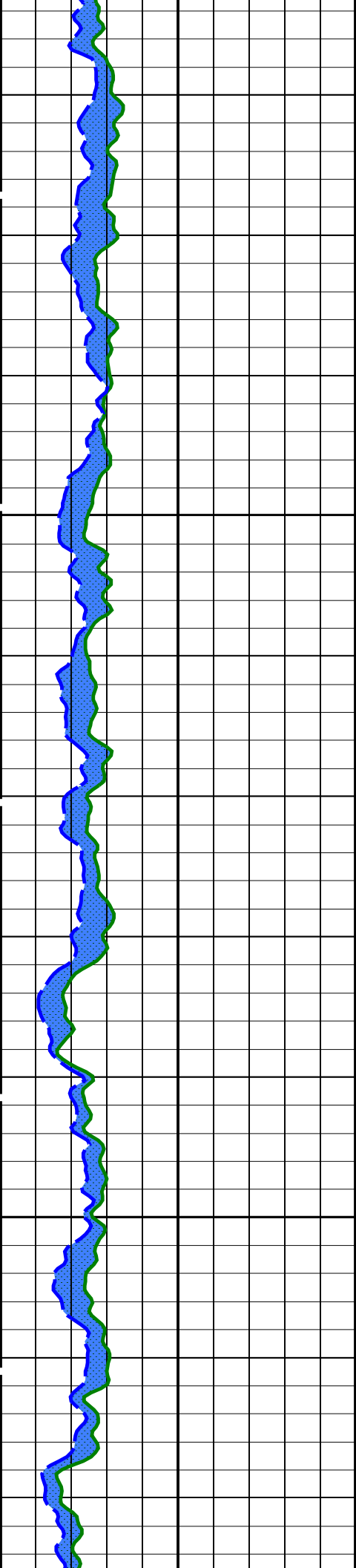




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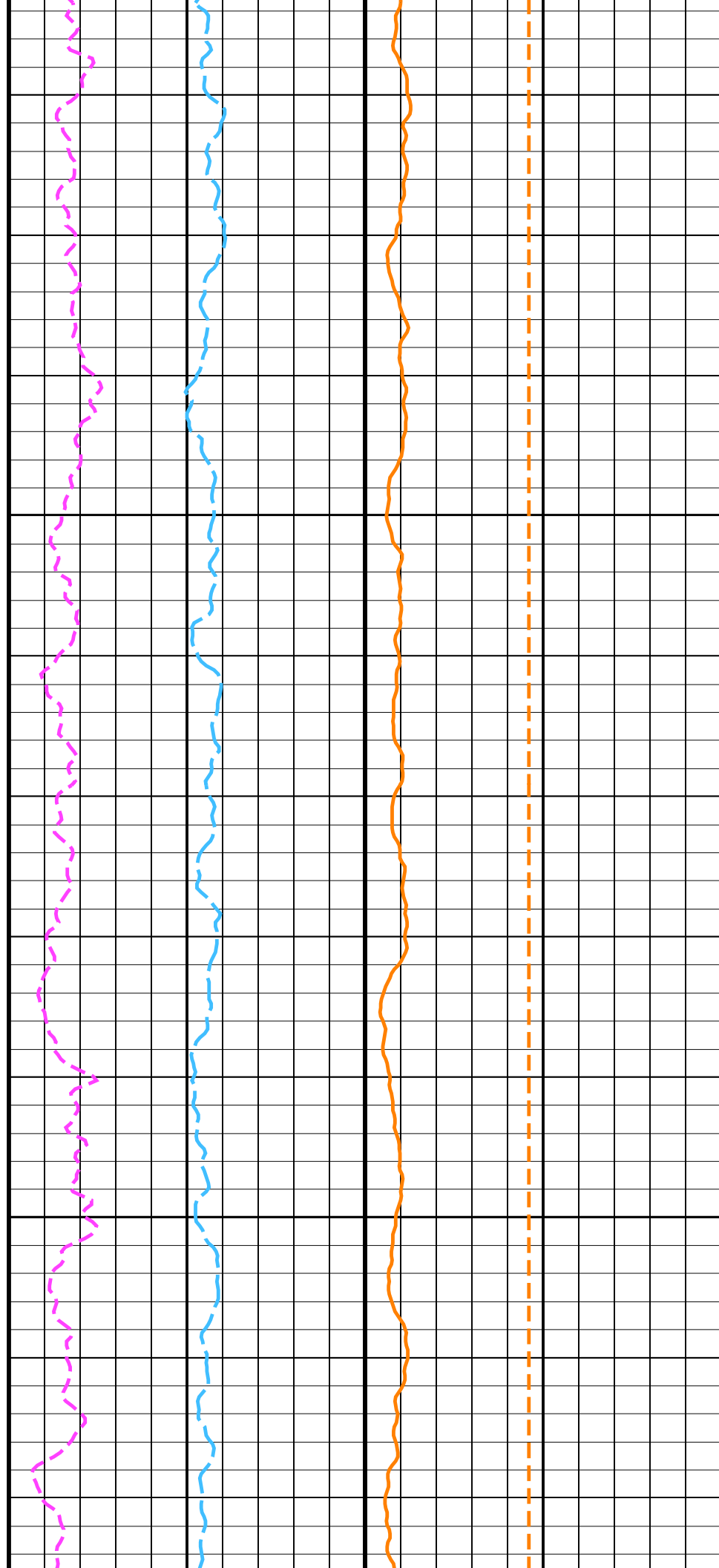
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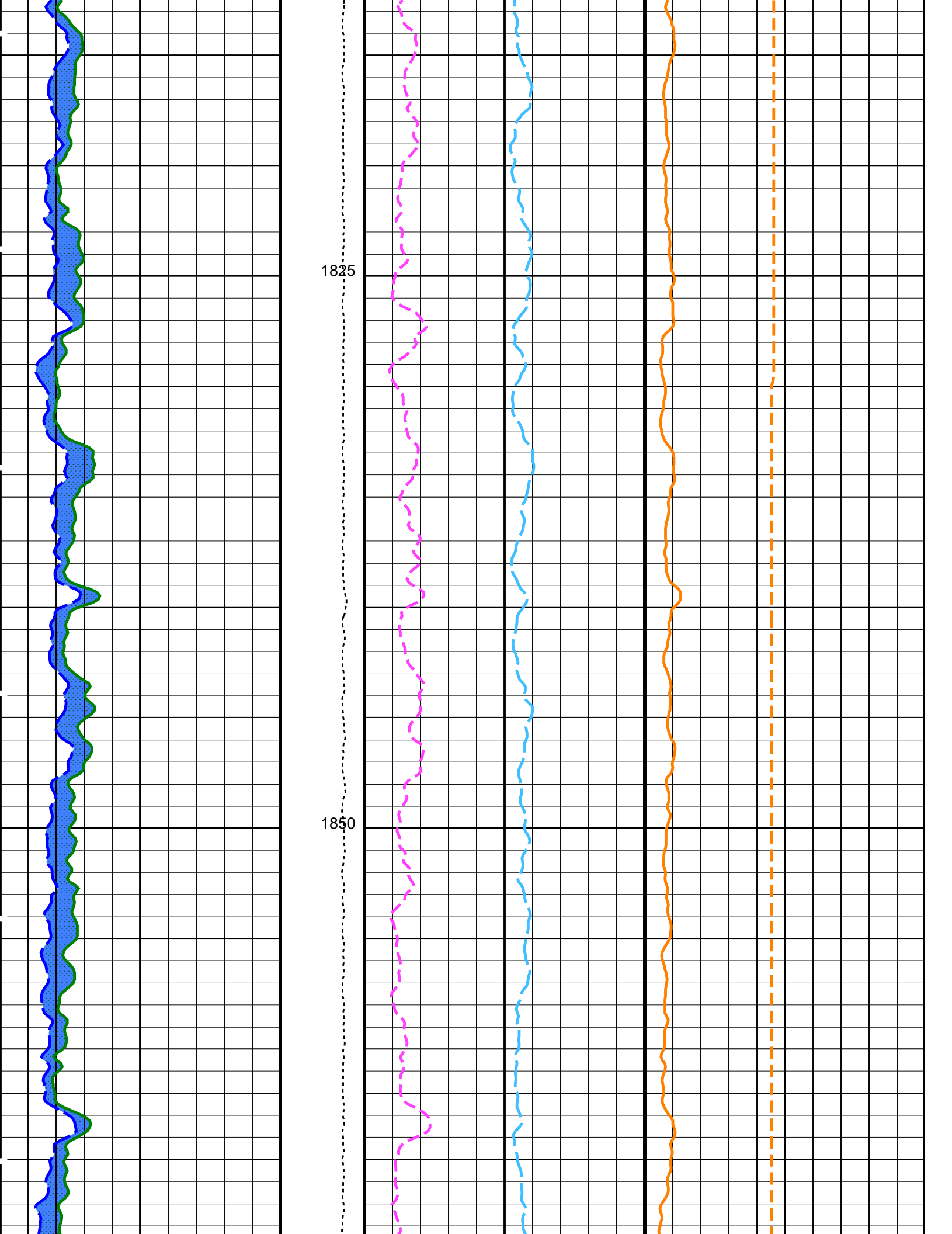




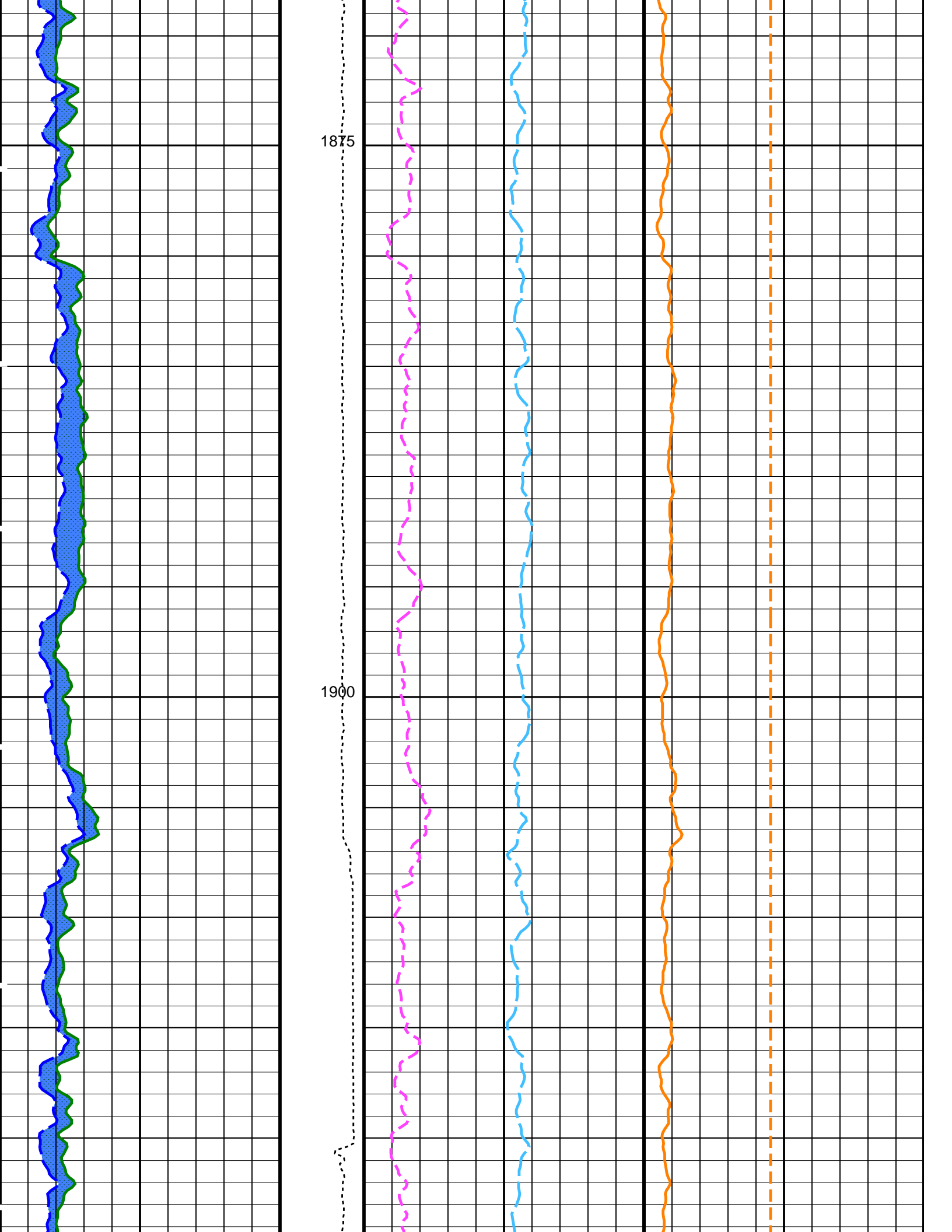
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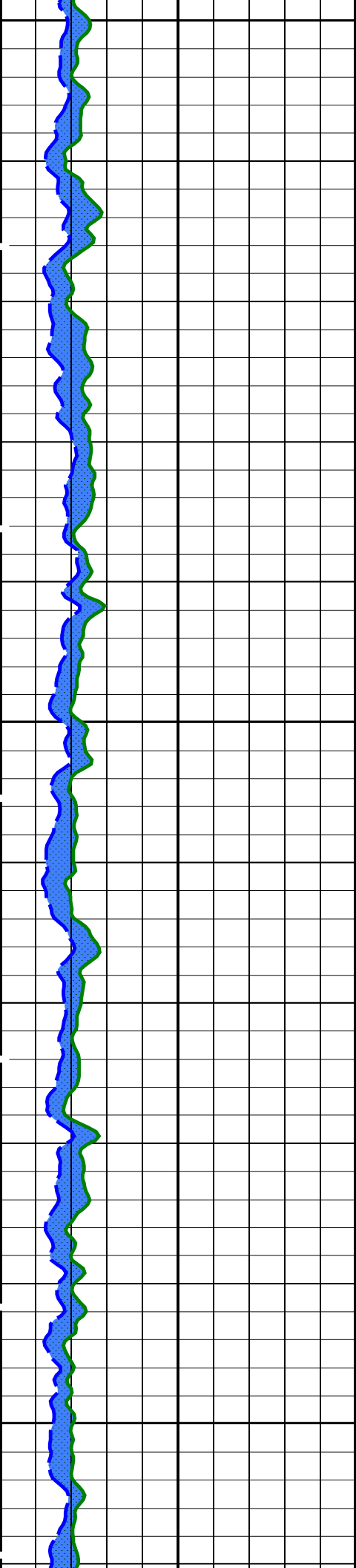
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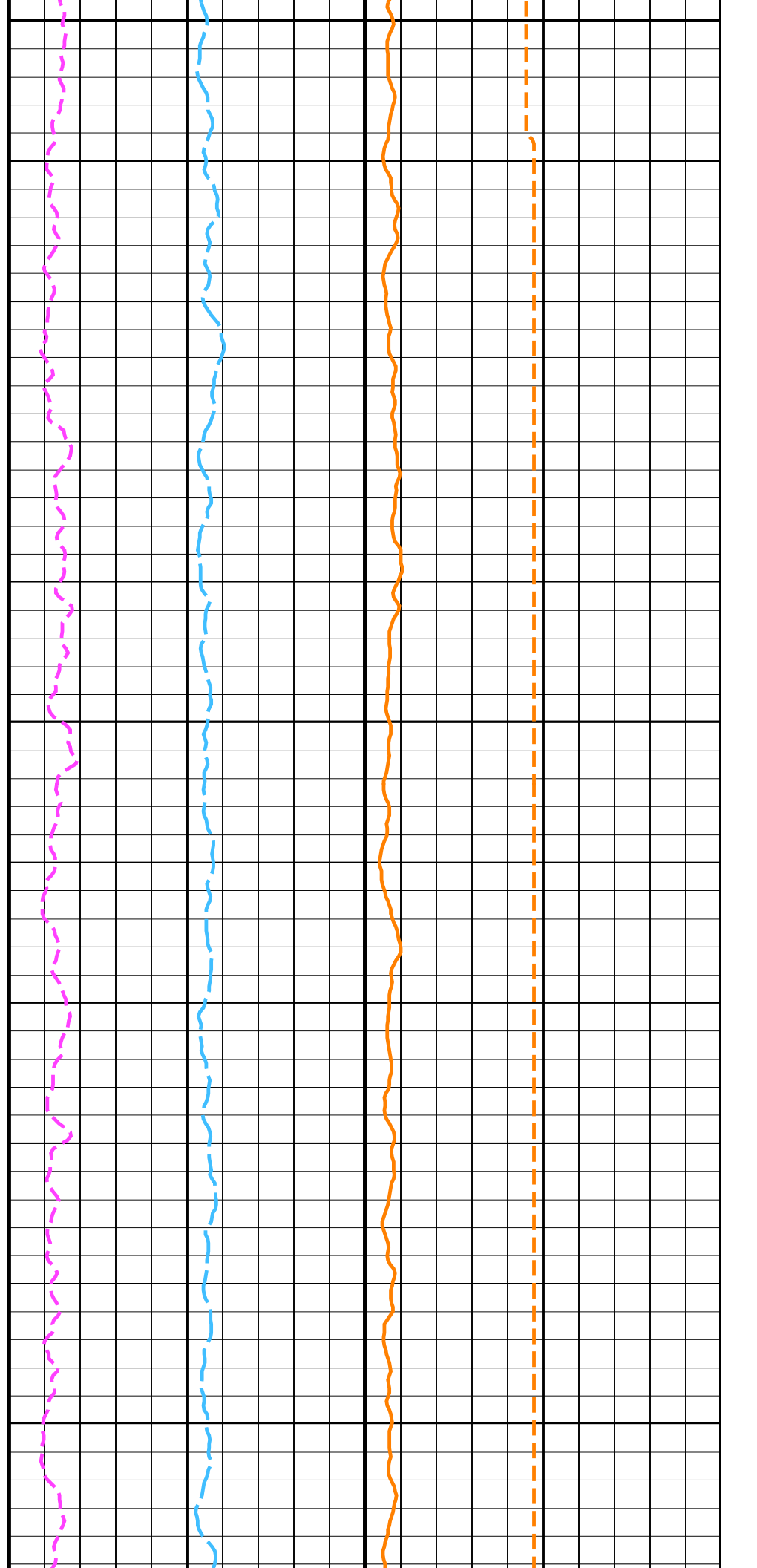


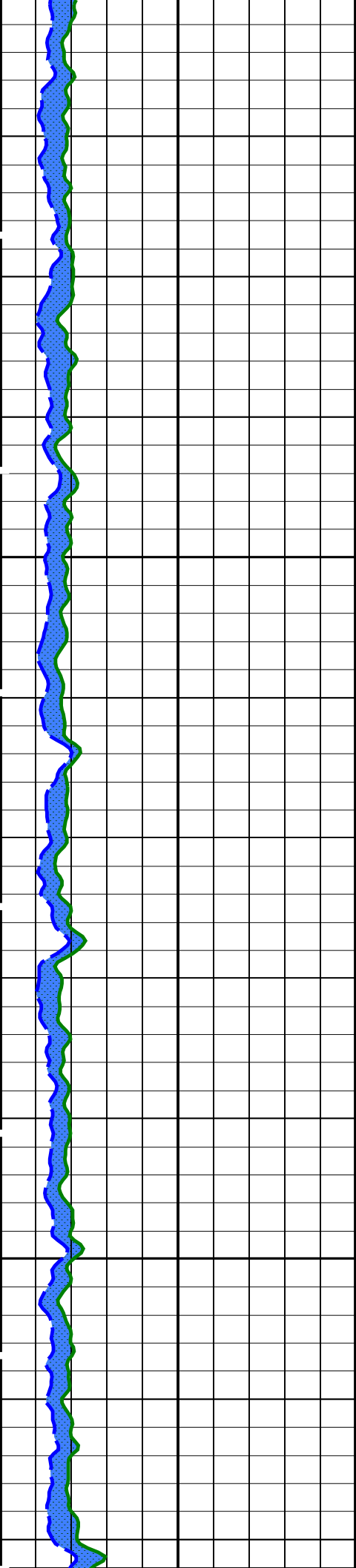


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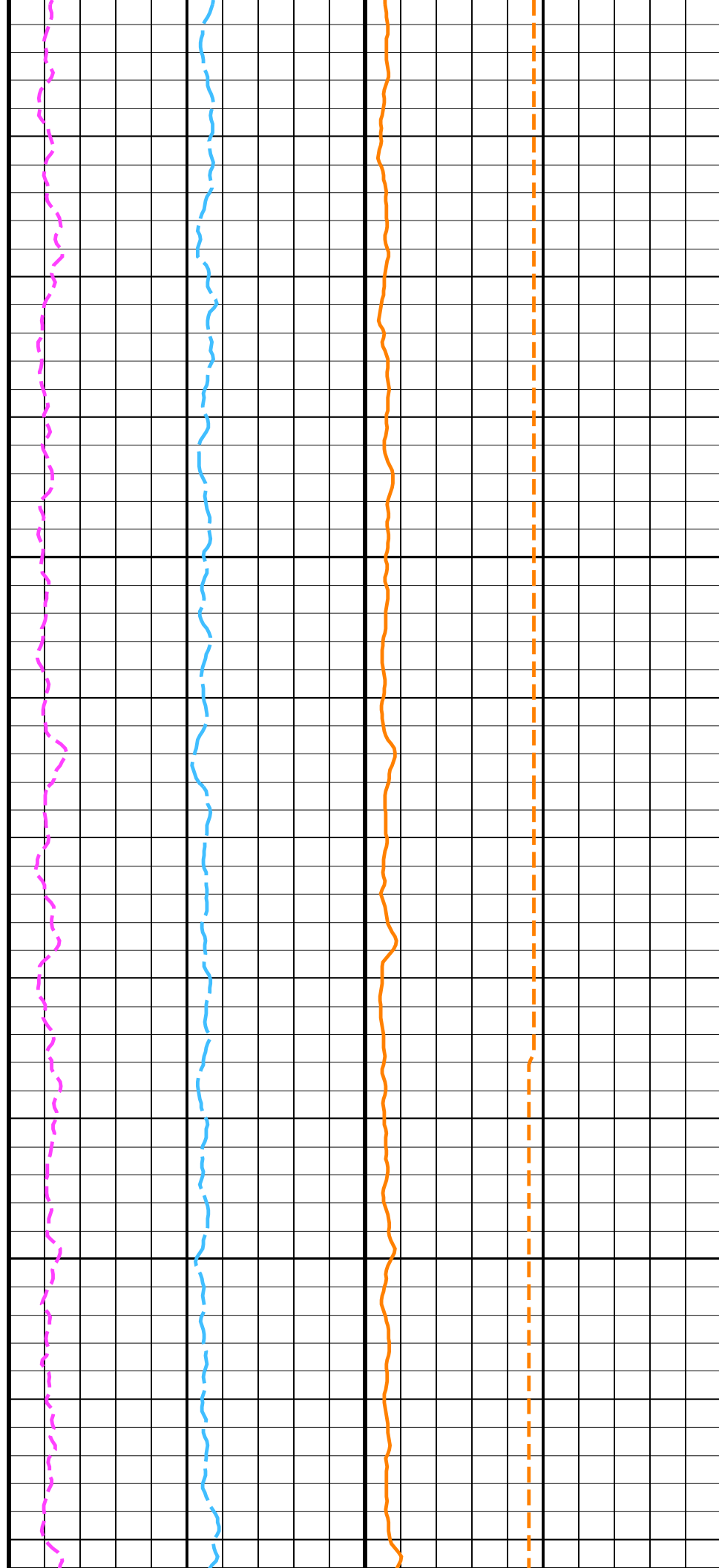
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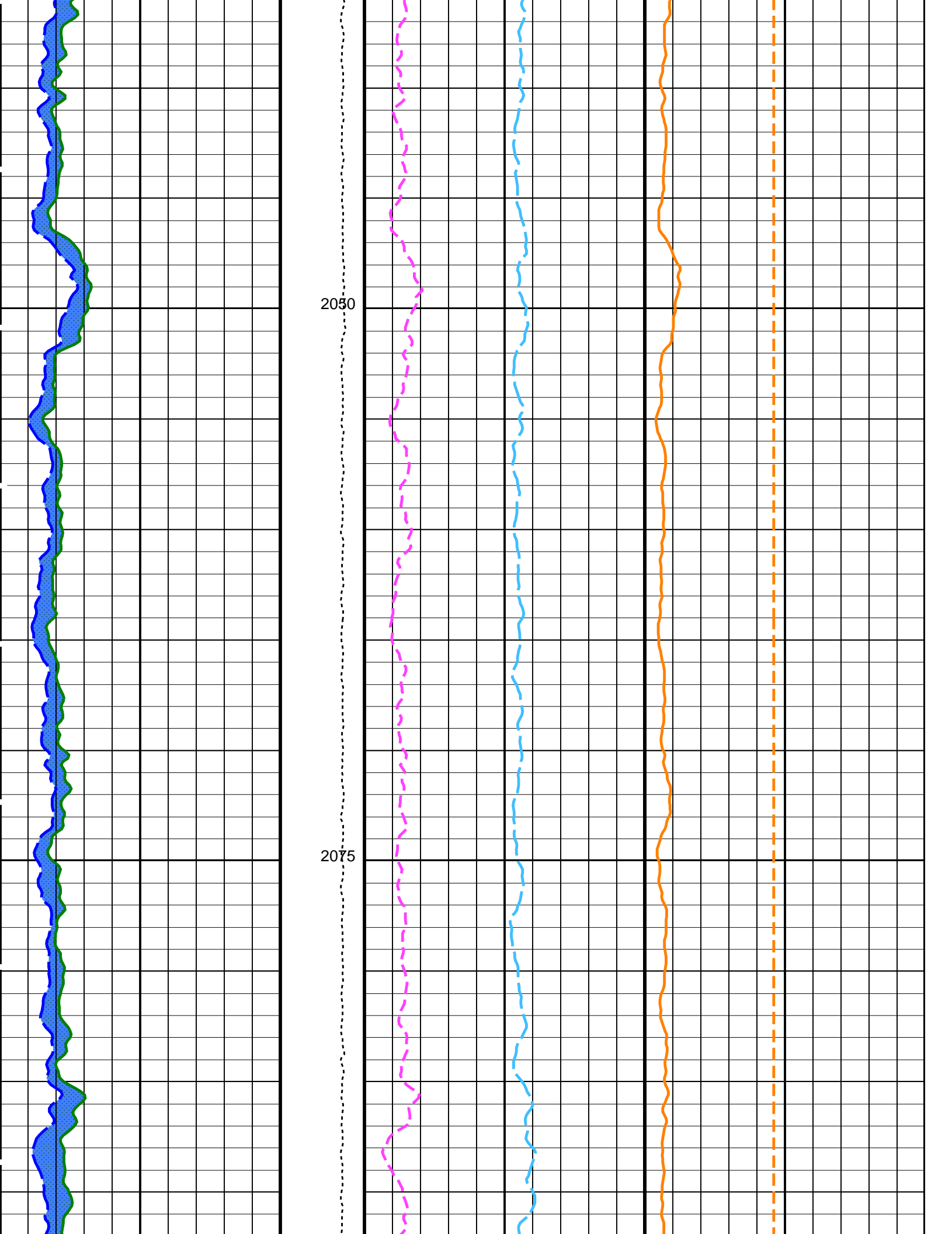


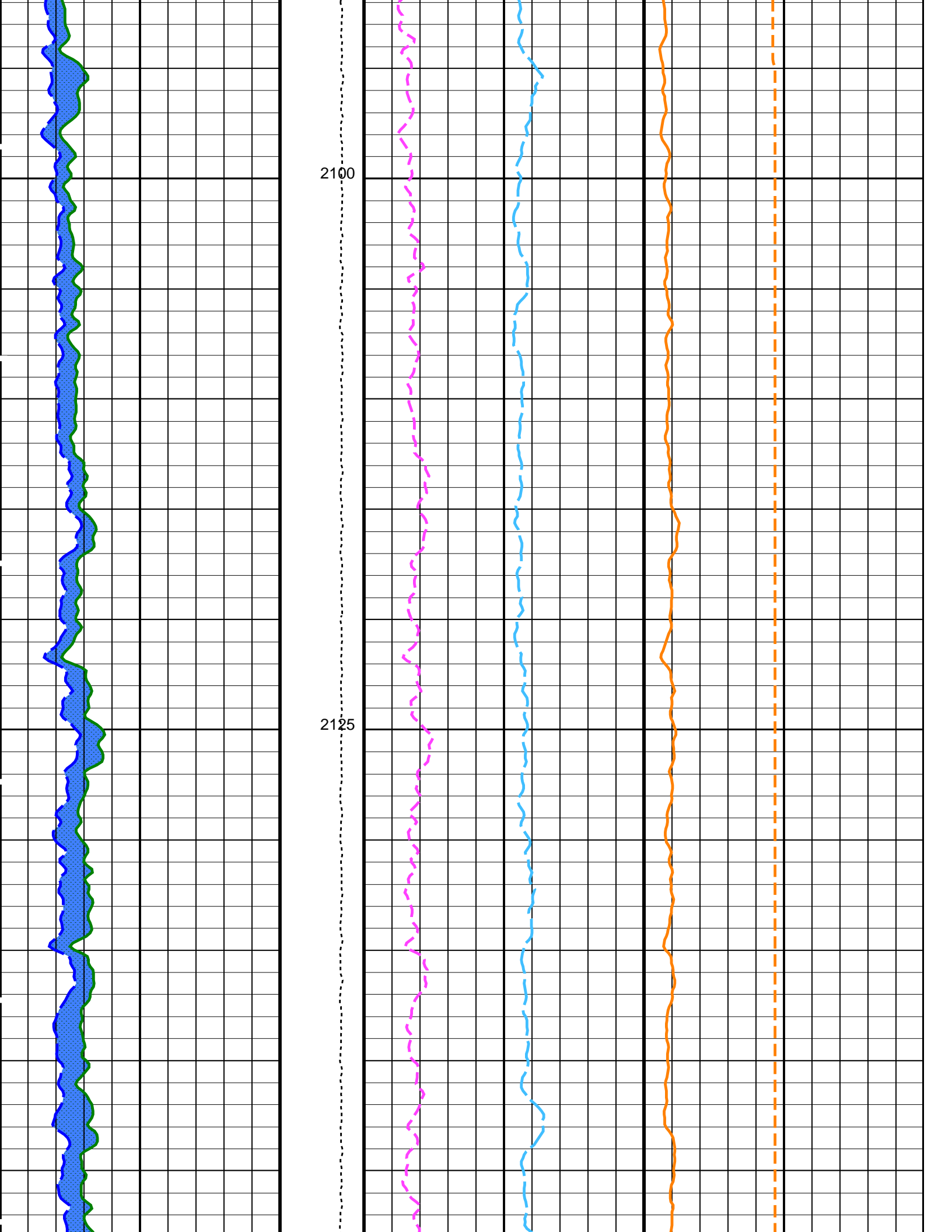


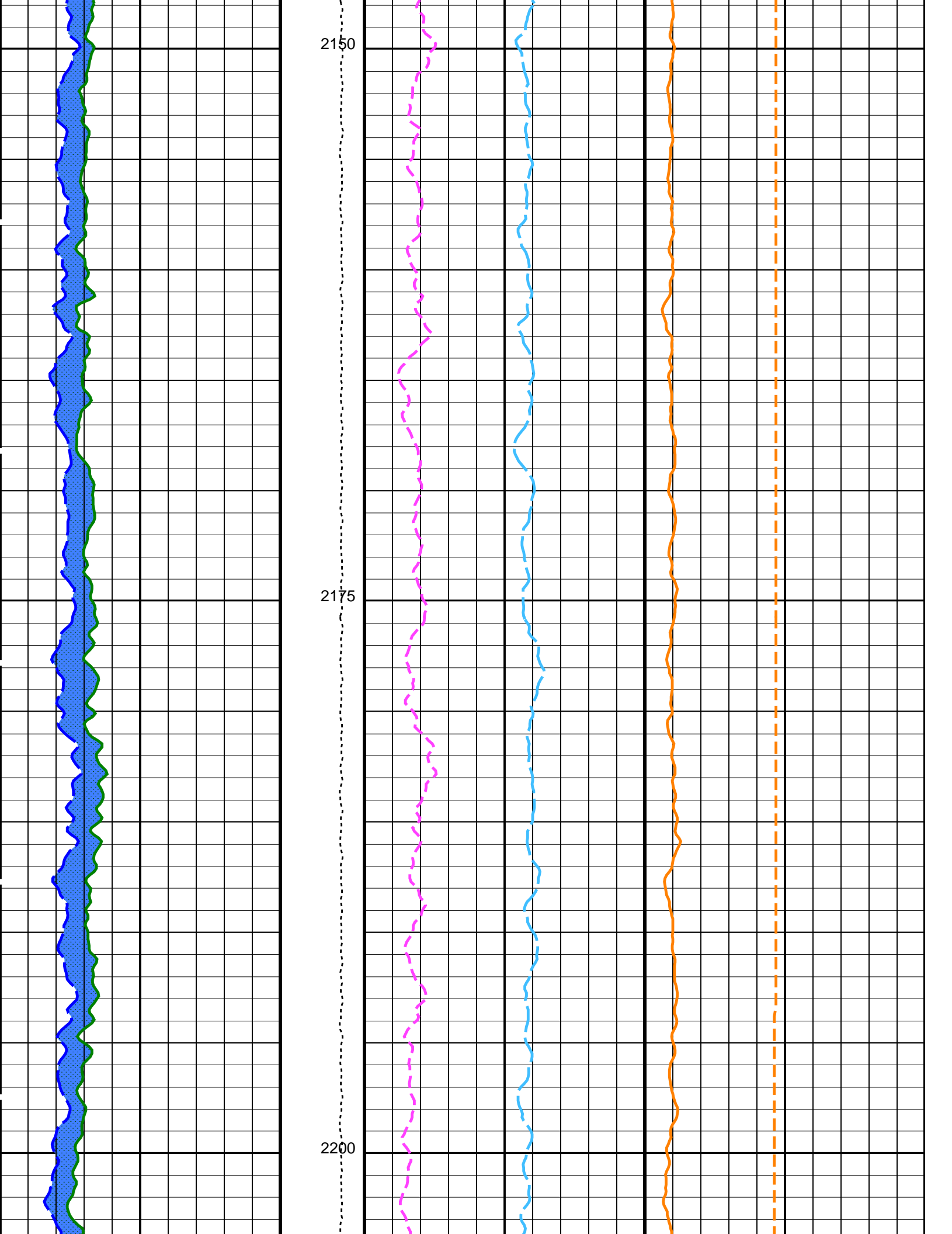
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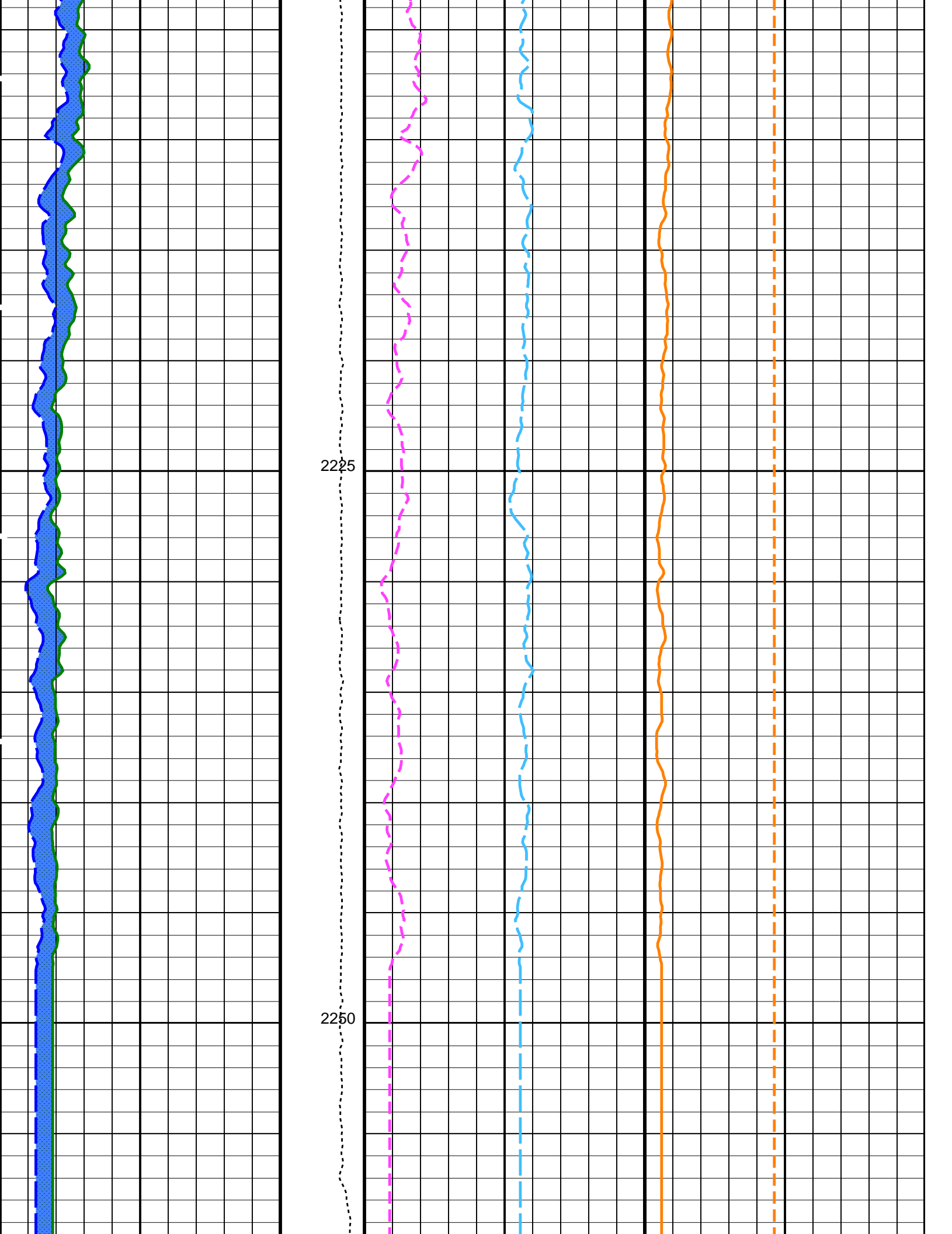
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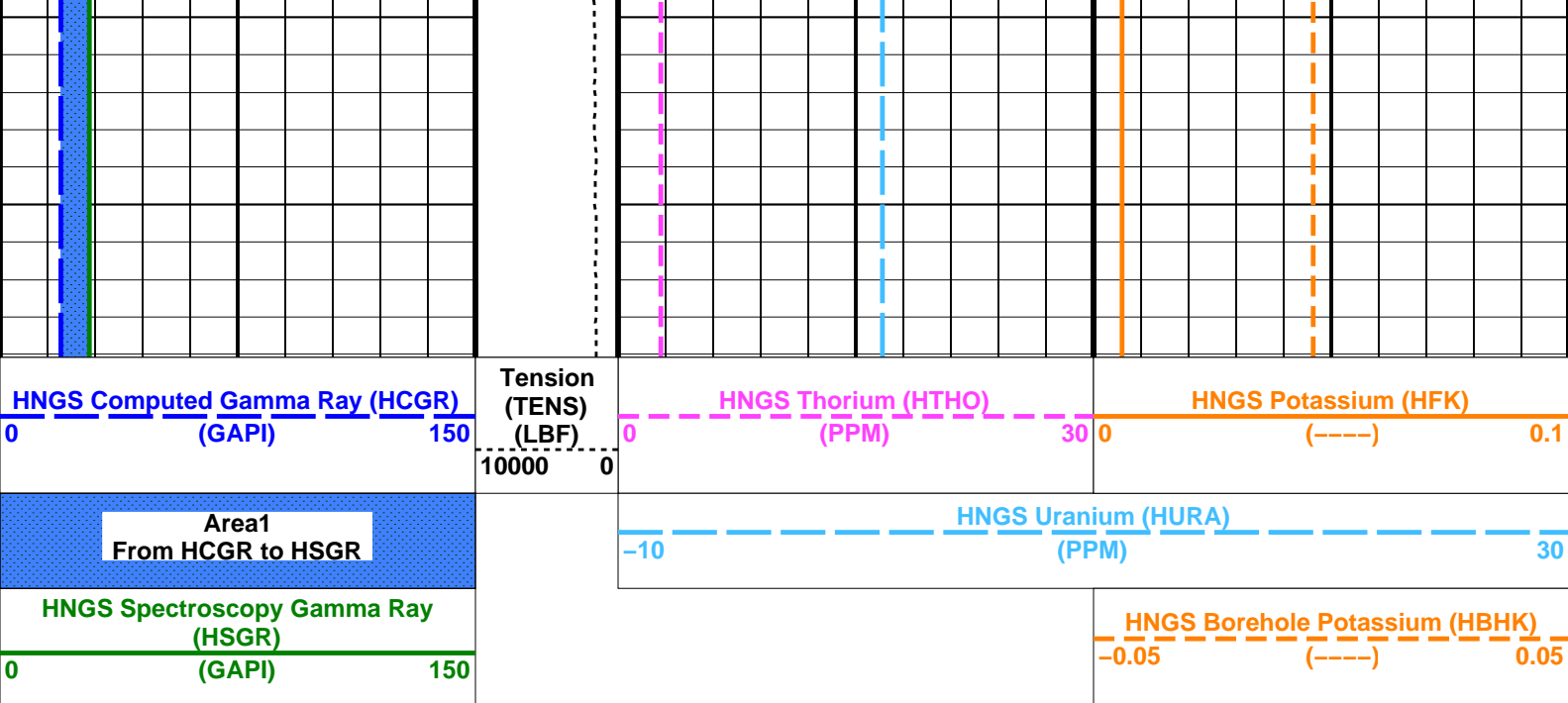












### PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00393062	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.997162	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.976799	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	9.00	LB/G
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 24-Dec-2023 17:00

## OP System Version: 19C0-187

DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

## Input DLIS Files



Output DLIS Files

Company: International Ocean Discovery Program

Well: Expedition 401, Site U1609A

Input DLIS Files

Output DLIS Files

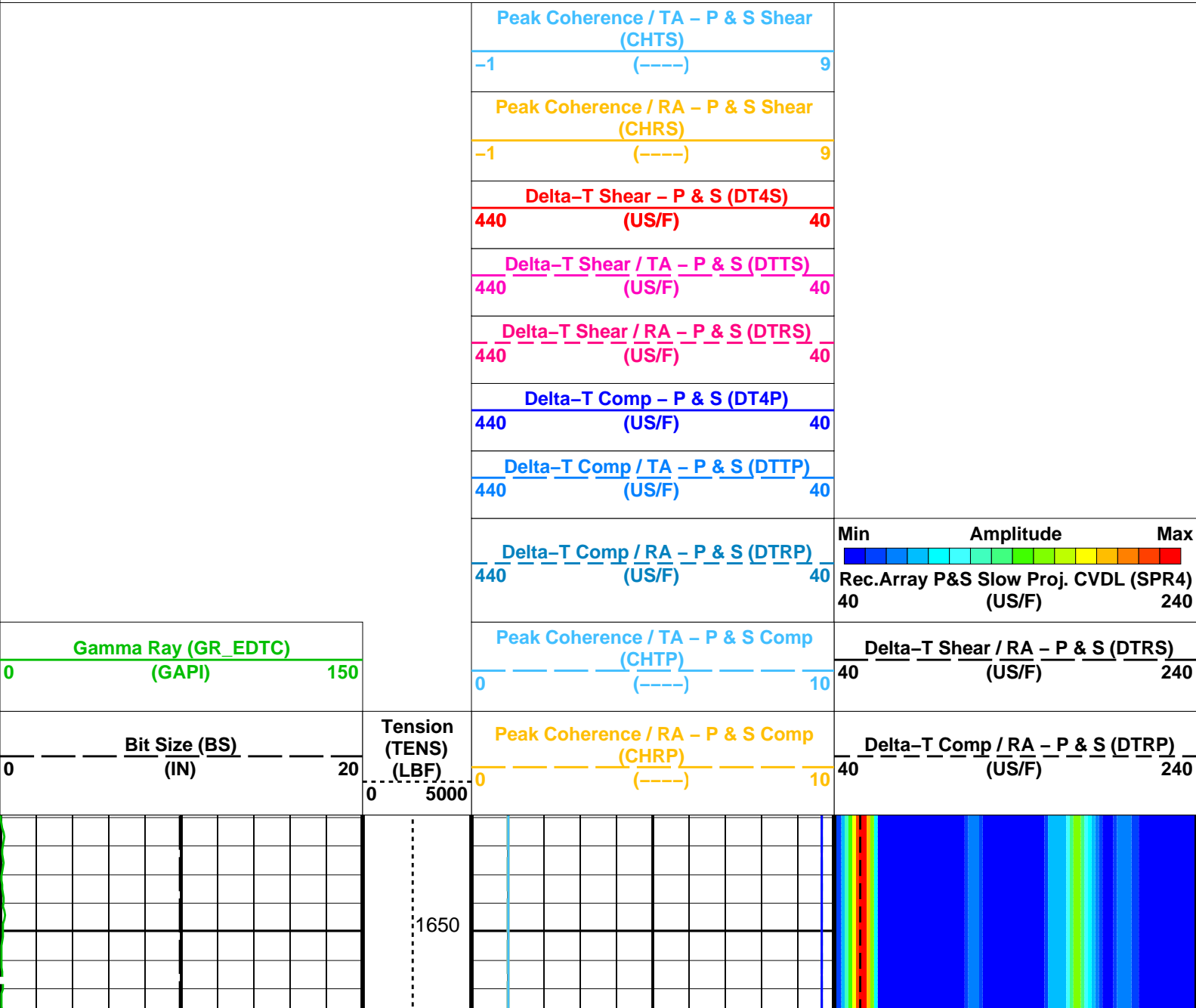
OP System Version: 19C0-187

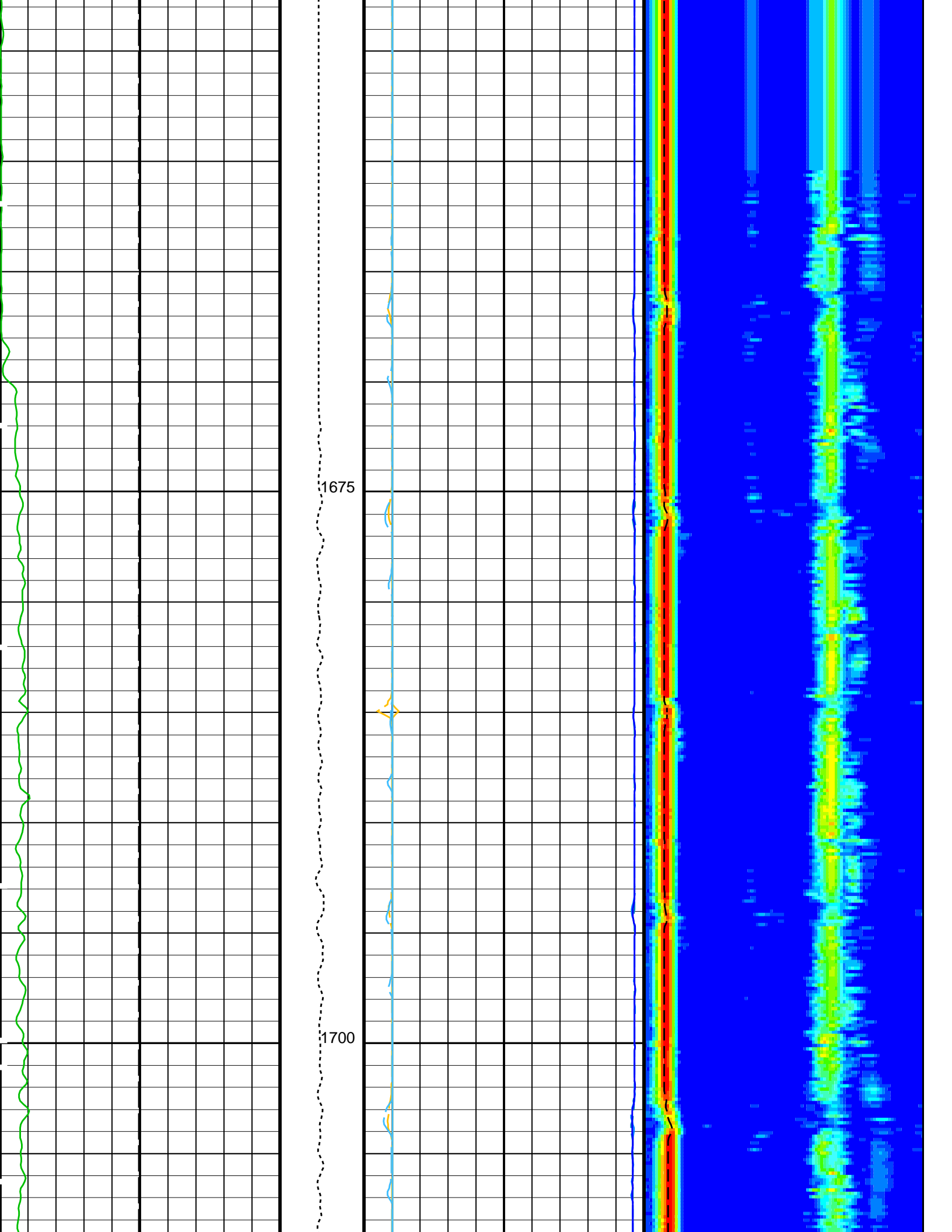
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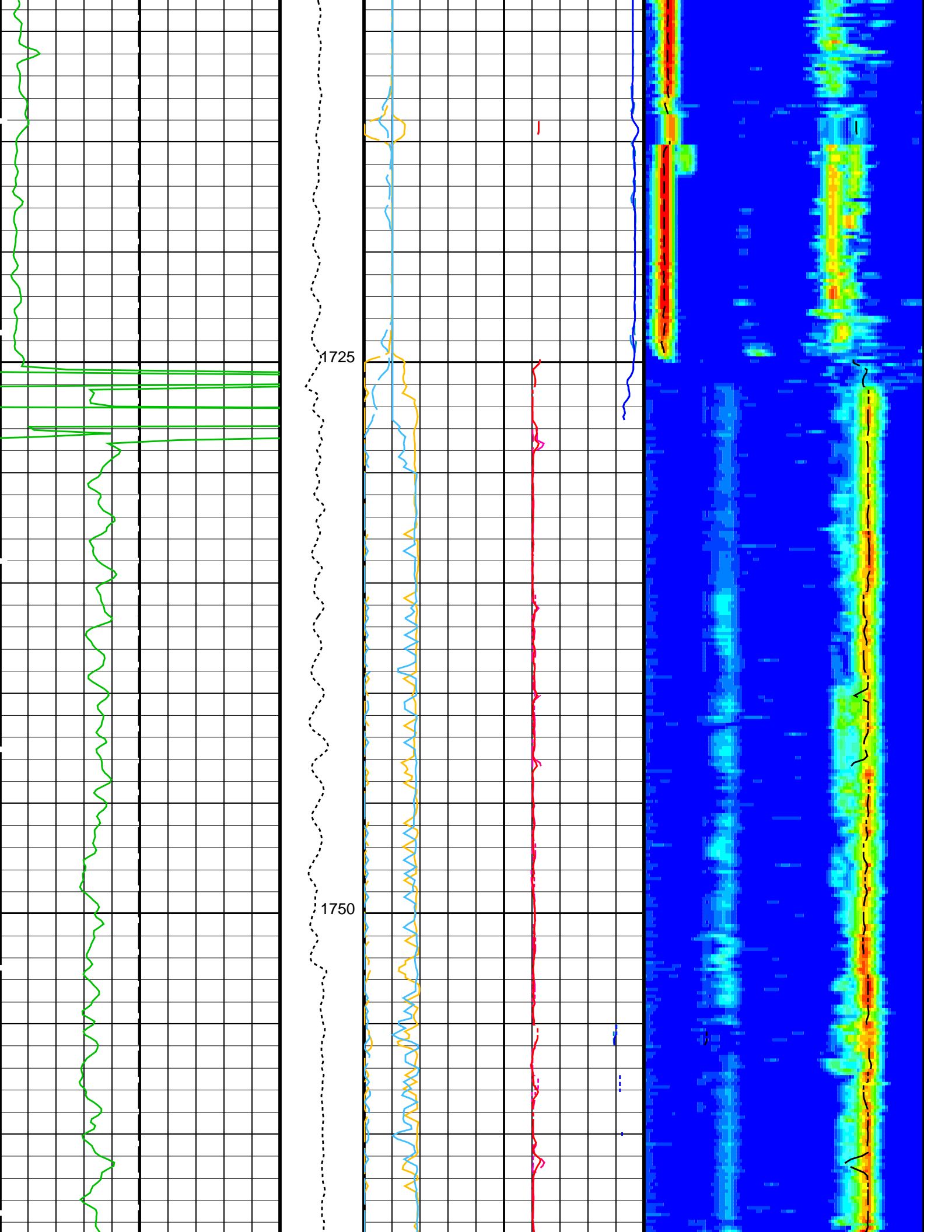
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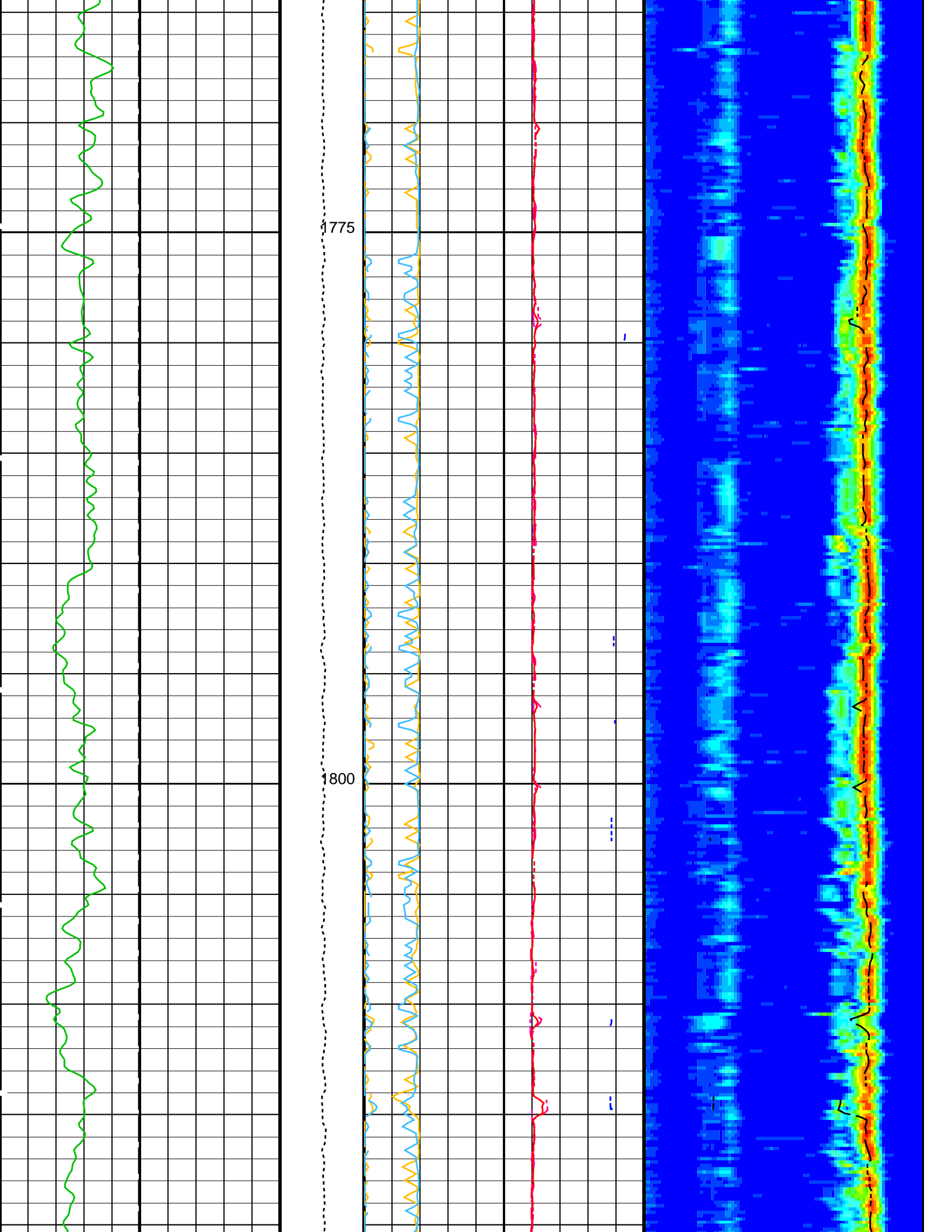
PIP SUMMARY

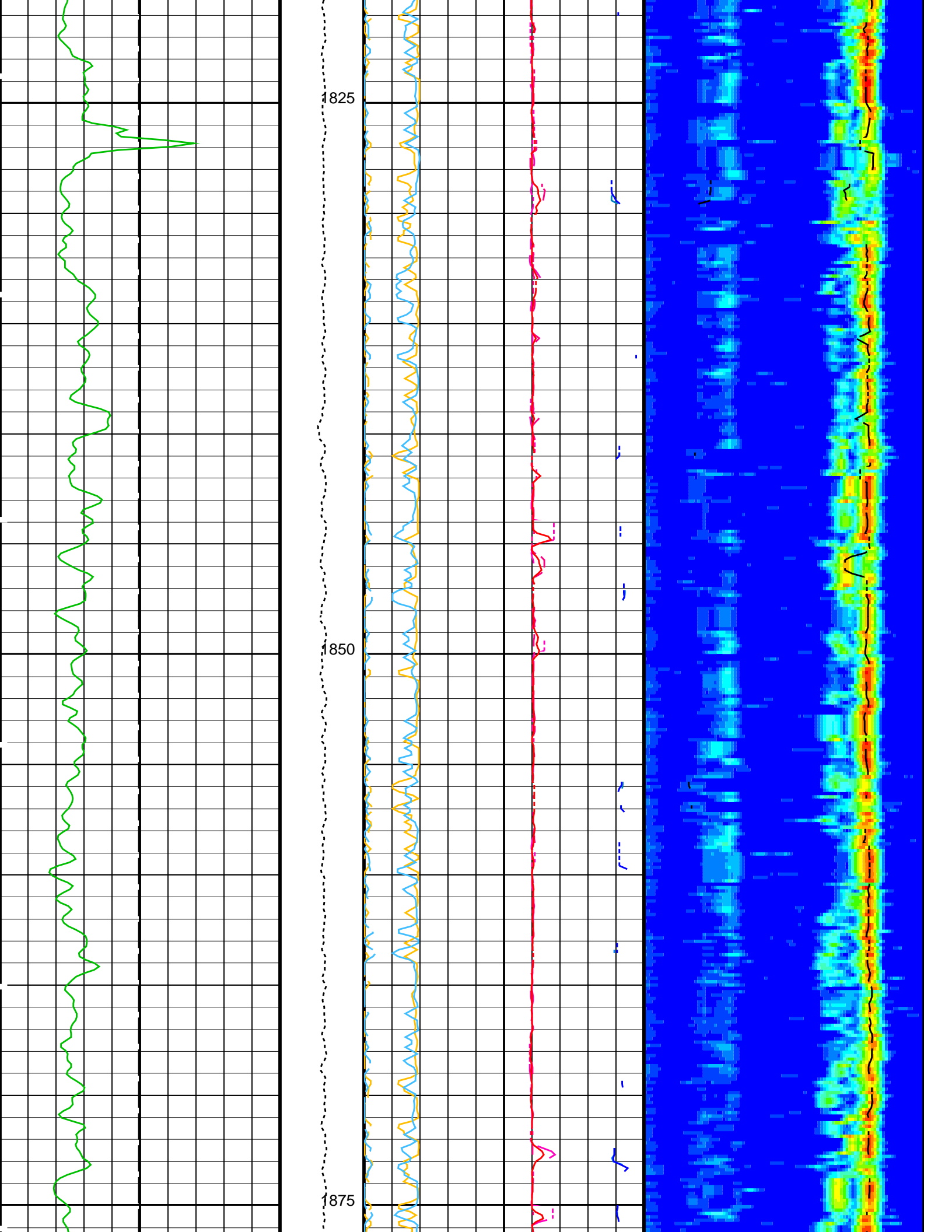
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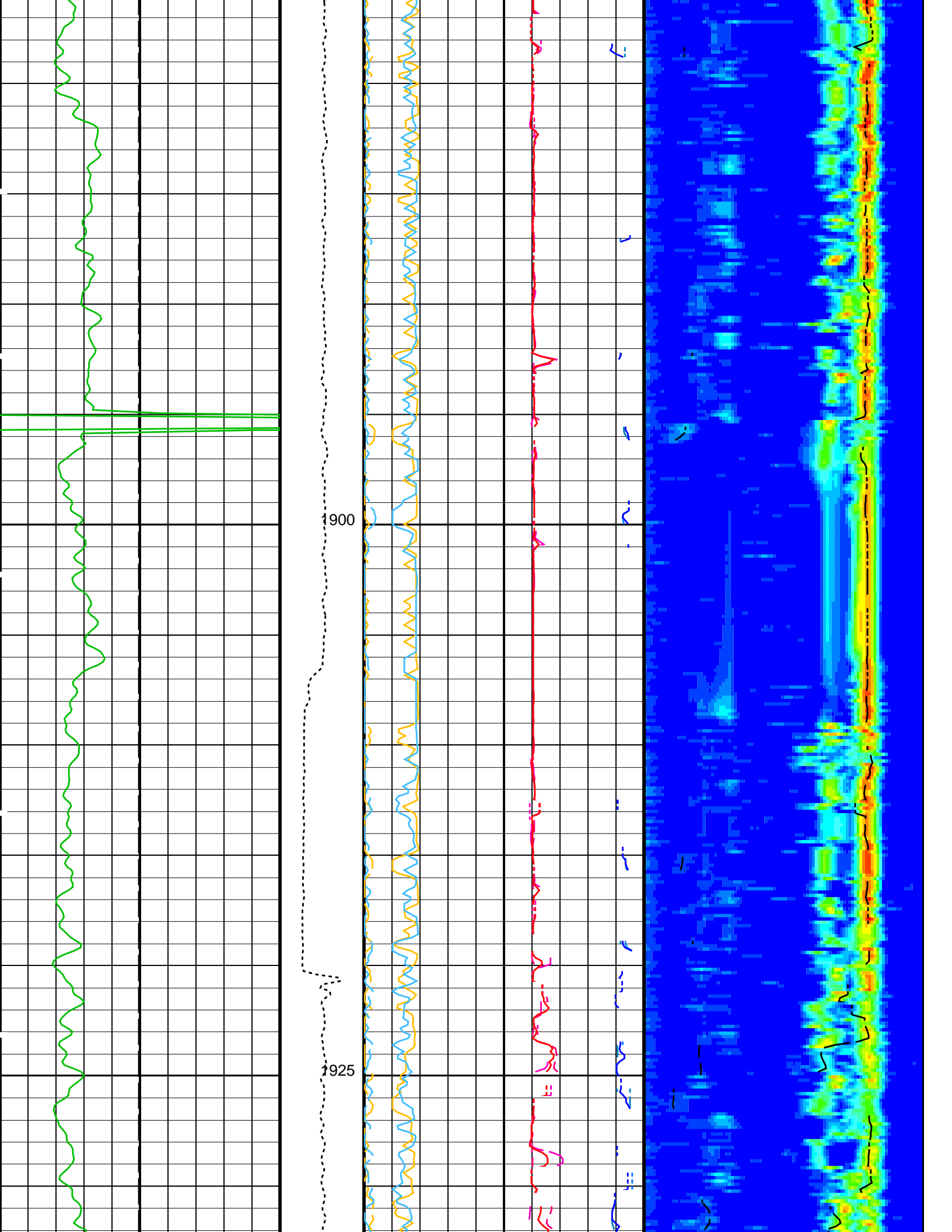


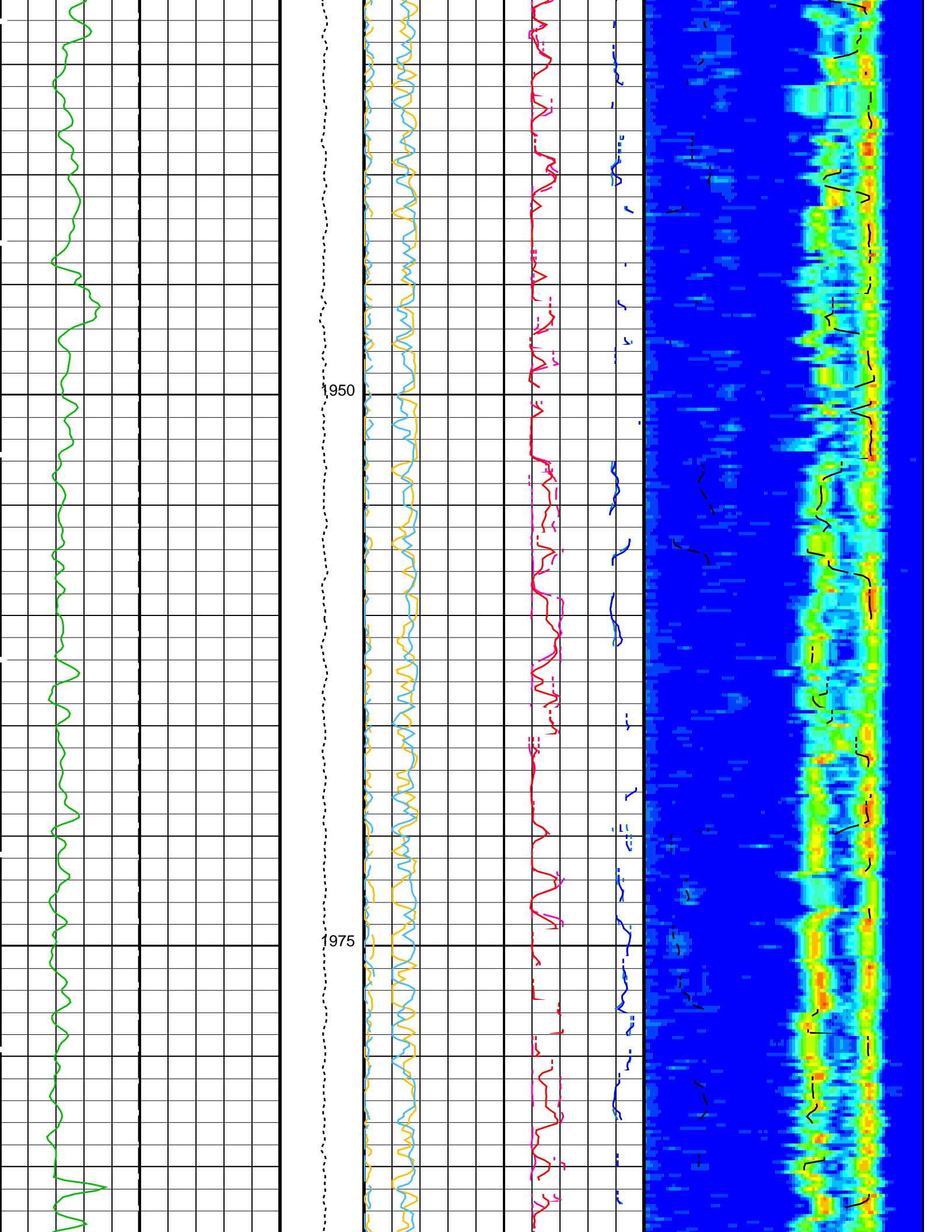


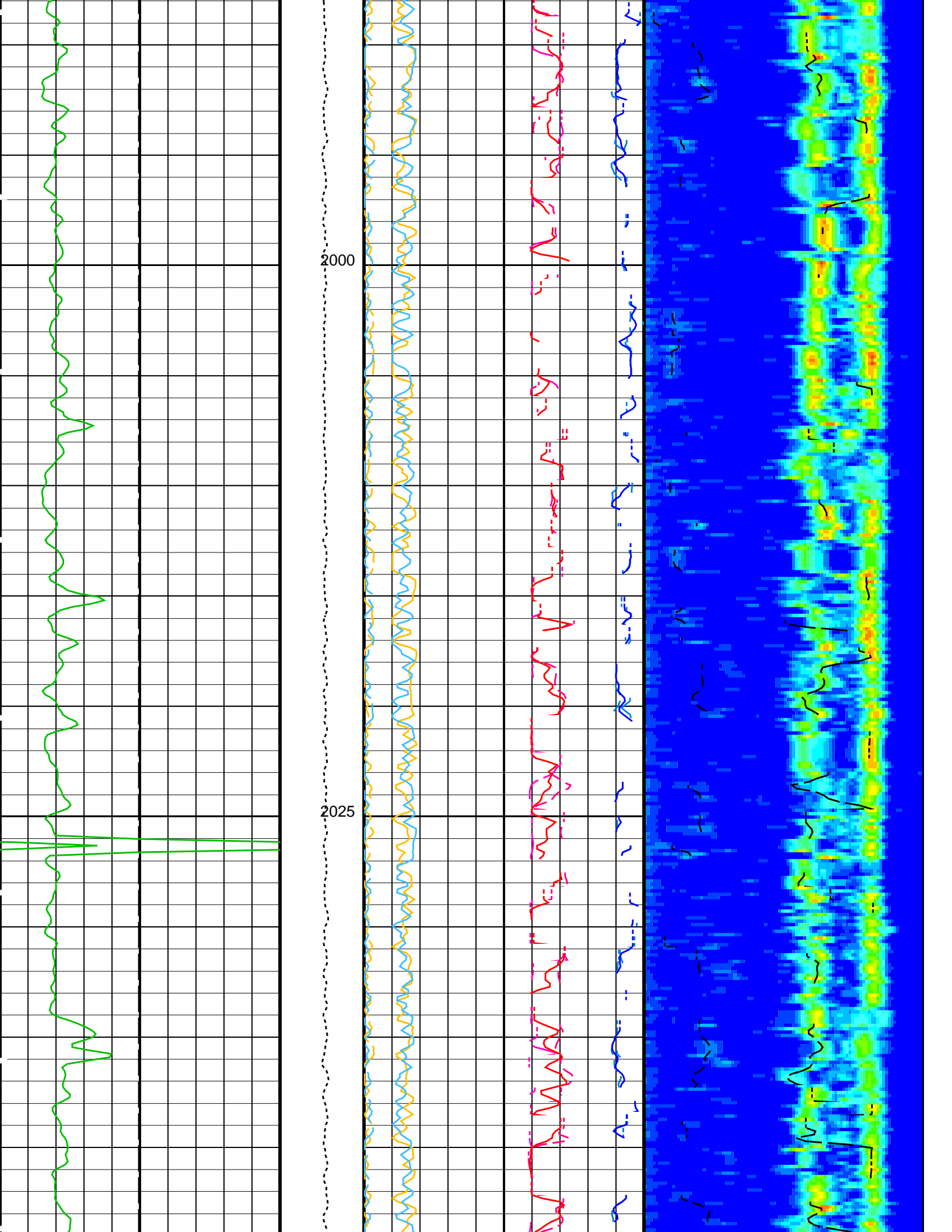




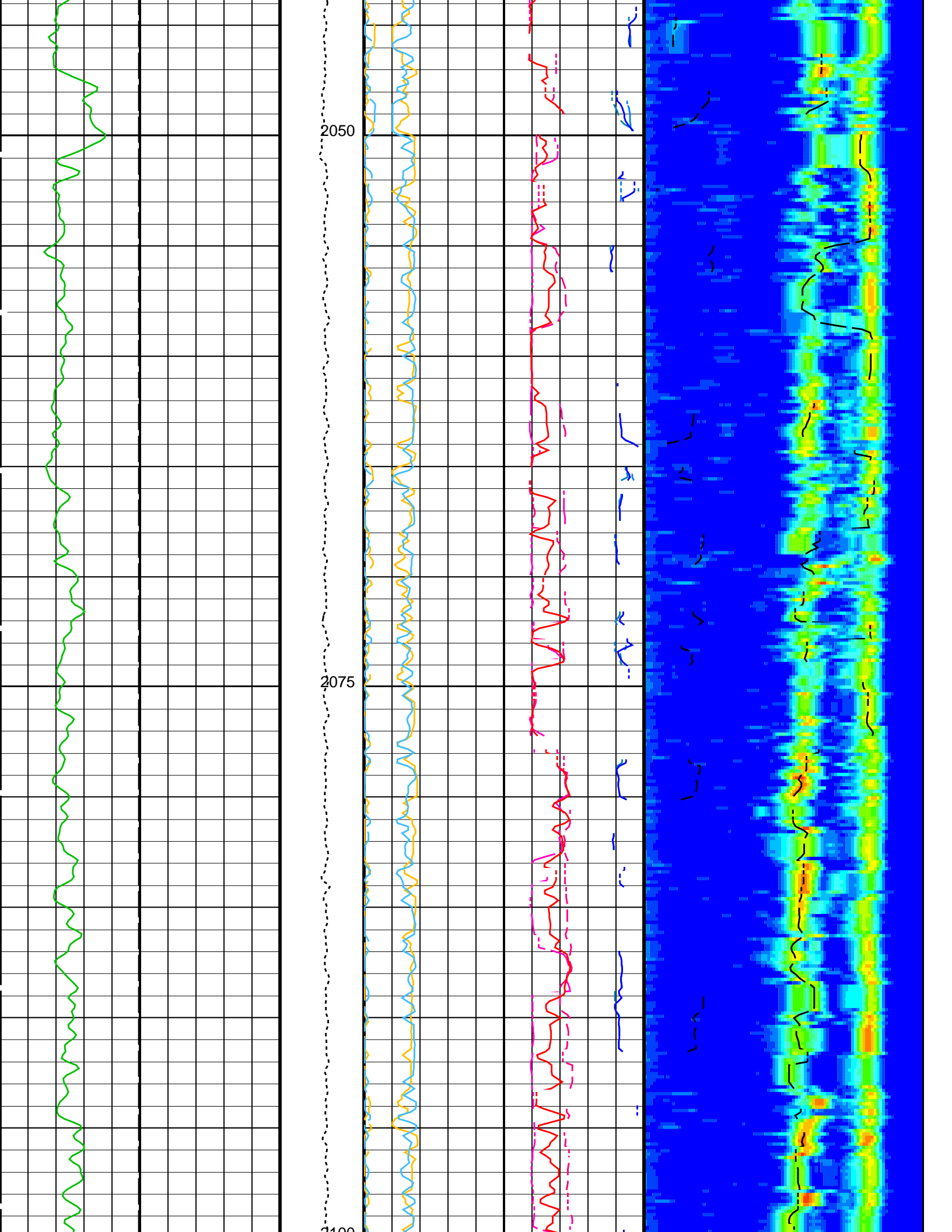


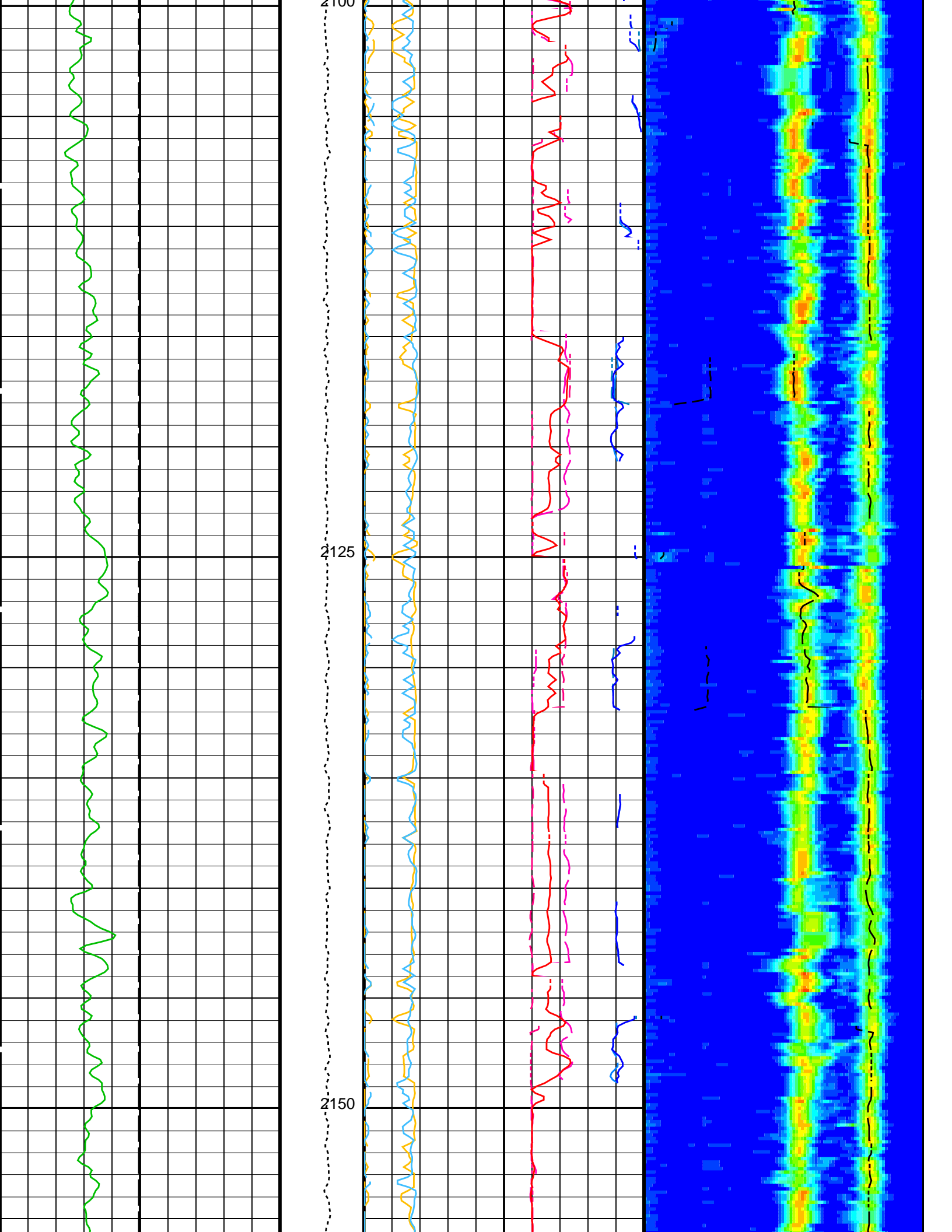


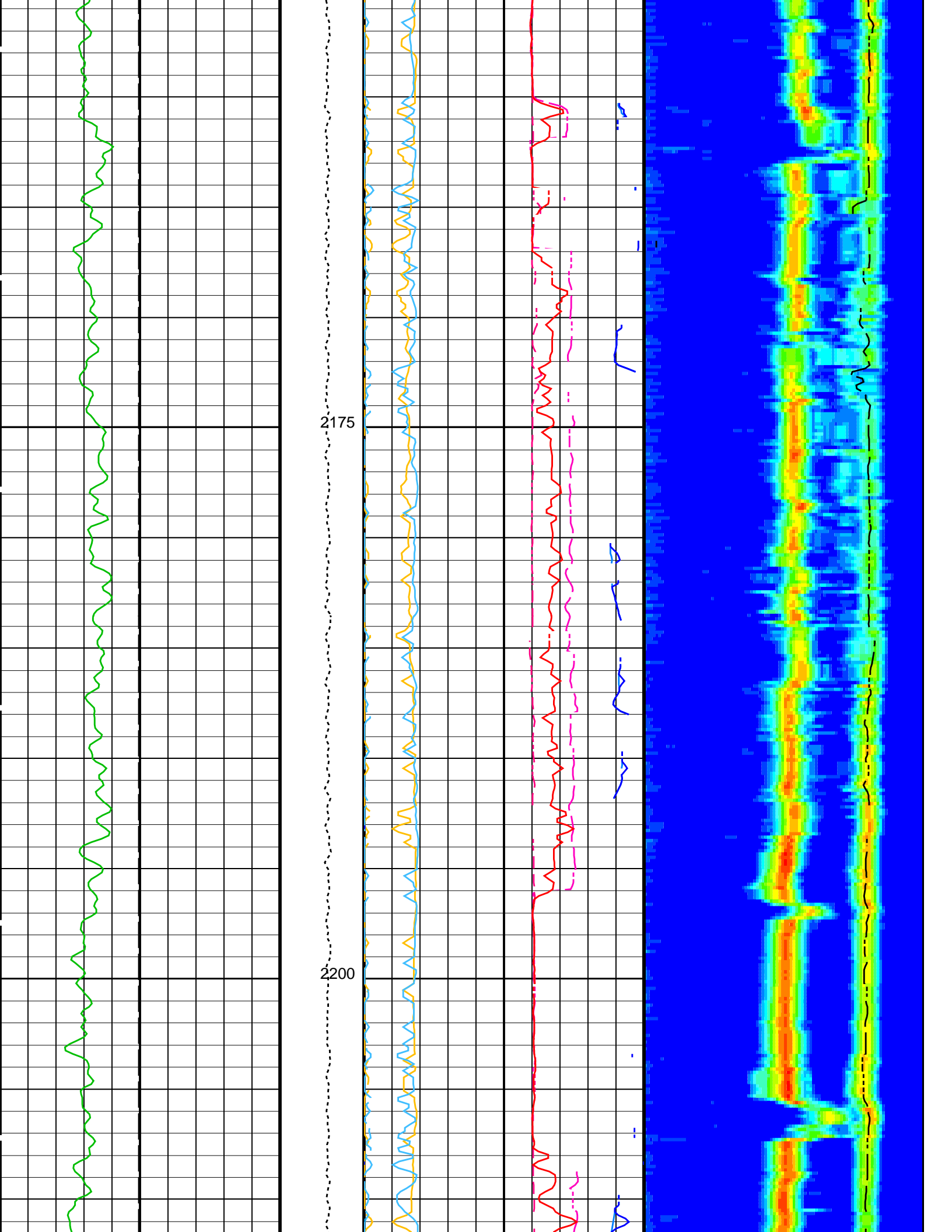


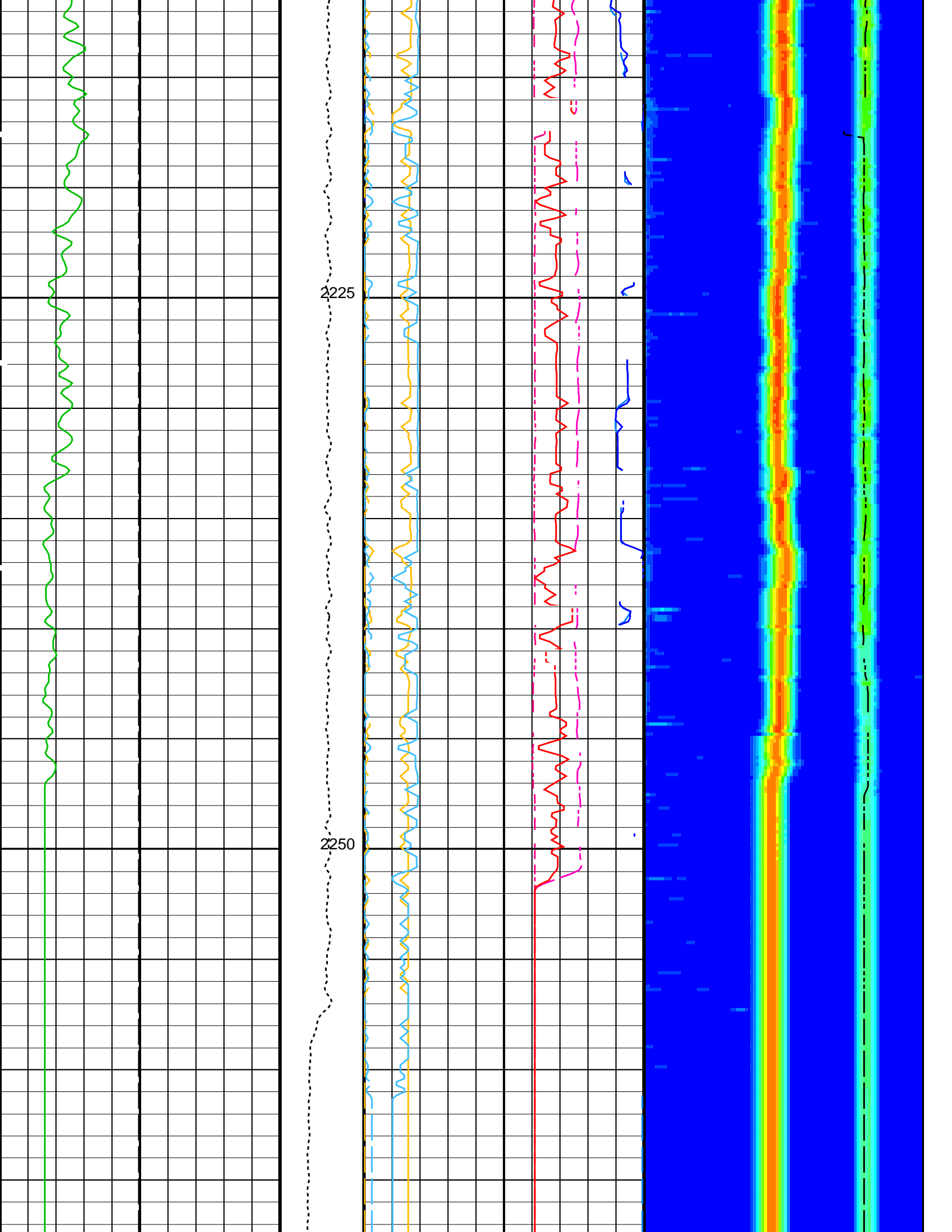


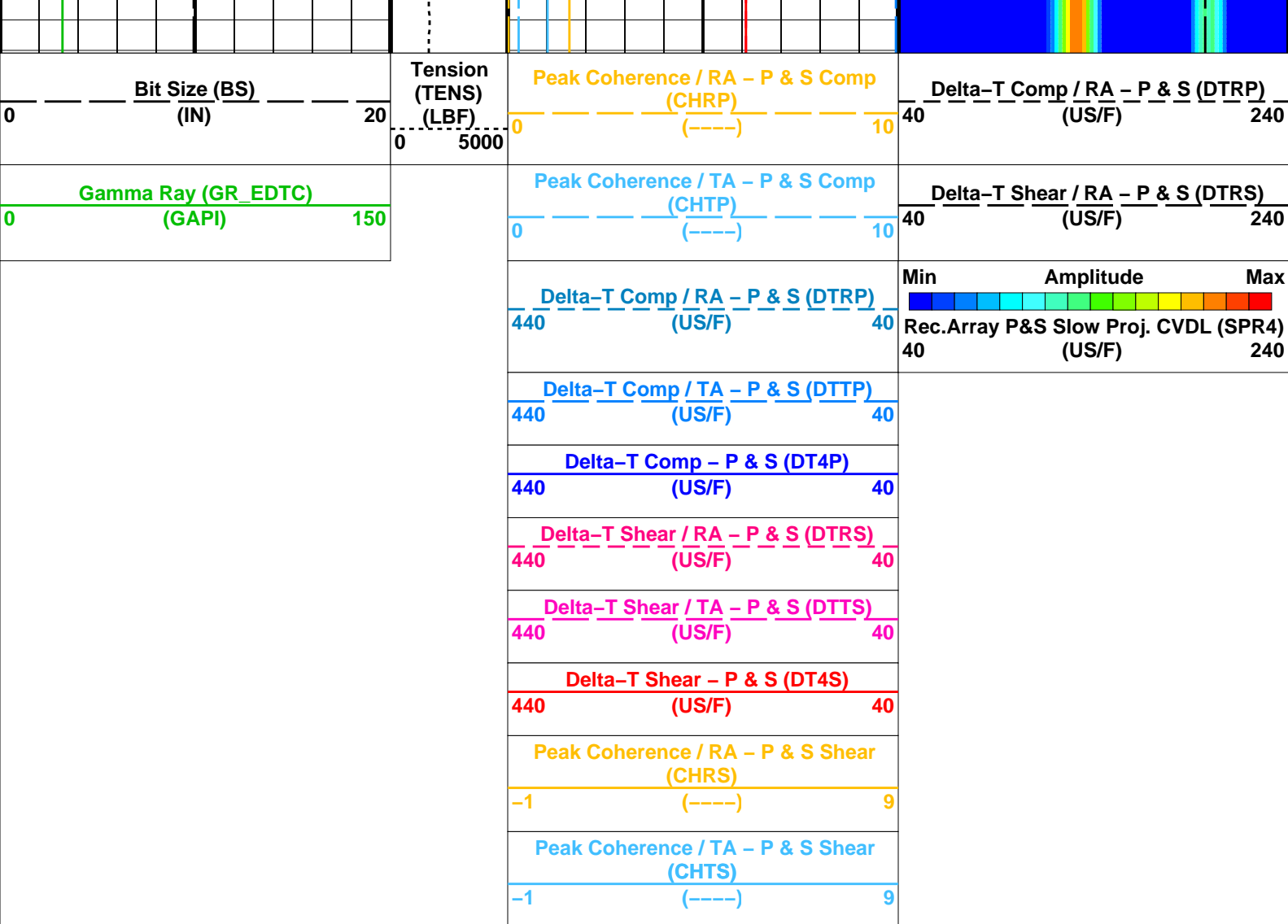












Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function - Monopole P&S	50
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	40 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	90 US/F
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTF	Delta-T Fluid	212 US/F
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	512
FILG	Label Fill Gap Control - Monopole P&S	COMP
LFC	Label Formation Character - Monopole P&S	COMP_FIRST
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NWI4	Number Waveform Items 4	8
NWIX	Number Waveform Items X	0
RSMN	Label Shear/Compressional Minimum Ratio - Monopole P&S	1.4
RSMX	Label Shear/Compressional Maximum Ratio - Monopole P&S	2.12
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	MFD_ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	

SAS4	STC Sonic Array Status – Monopole P&S	255	OFF
SB04	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–12K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	130	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
HNGB–BA: Hostile Natural Gamma Ray Sonde			
BHS	Borehole Status	OPEN	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST\_P\_S\_VDL\_COLOR

Vertical Scale: 1:200

Graphics File Created: 24–Dec–2023 17:00

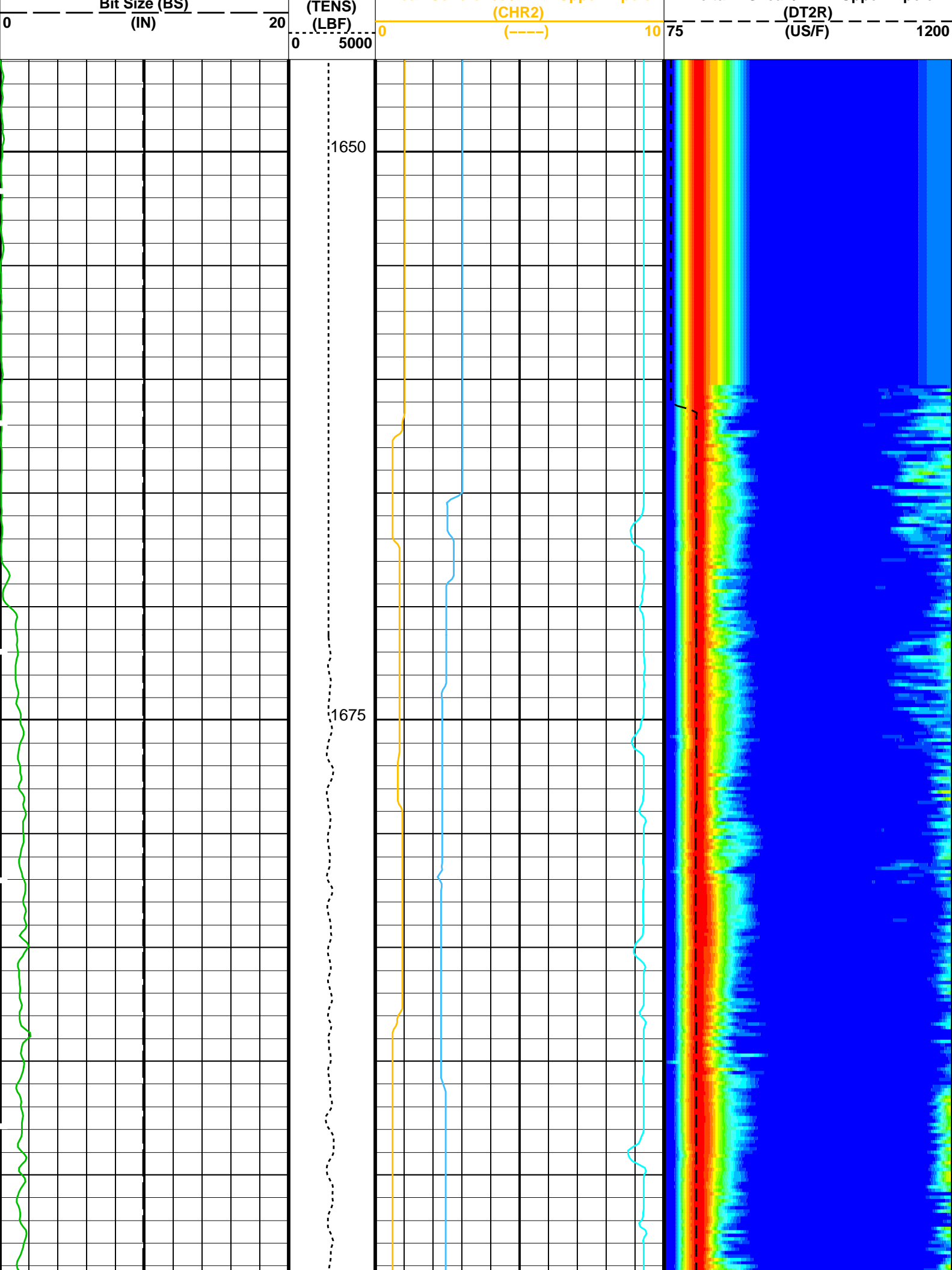
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HNGB–BA	19C0–187	EDTC–B	19C0–187

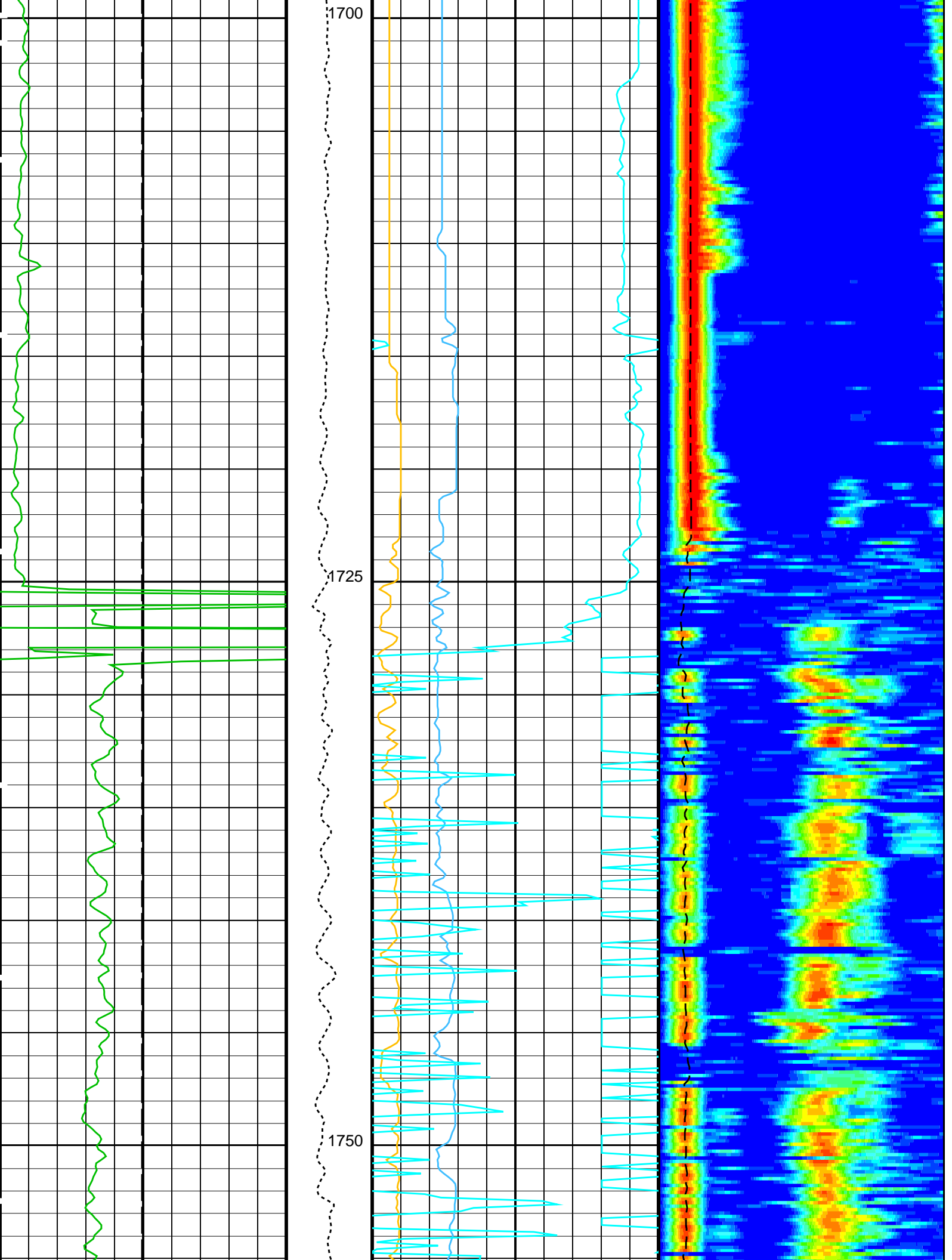
Input DLIS Files					
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Output DLIS Files					
DEFAULT	DSI_NGS_032PUP	FN:25	PRODUCER	24–Dec–2023 17:00	

Input DLIS Files					
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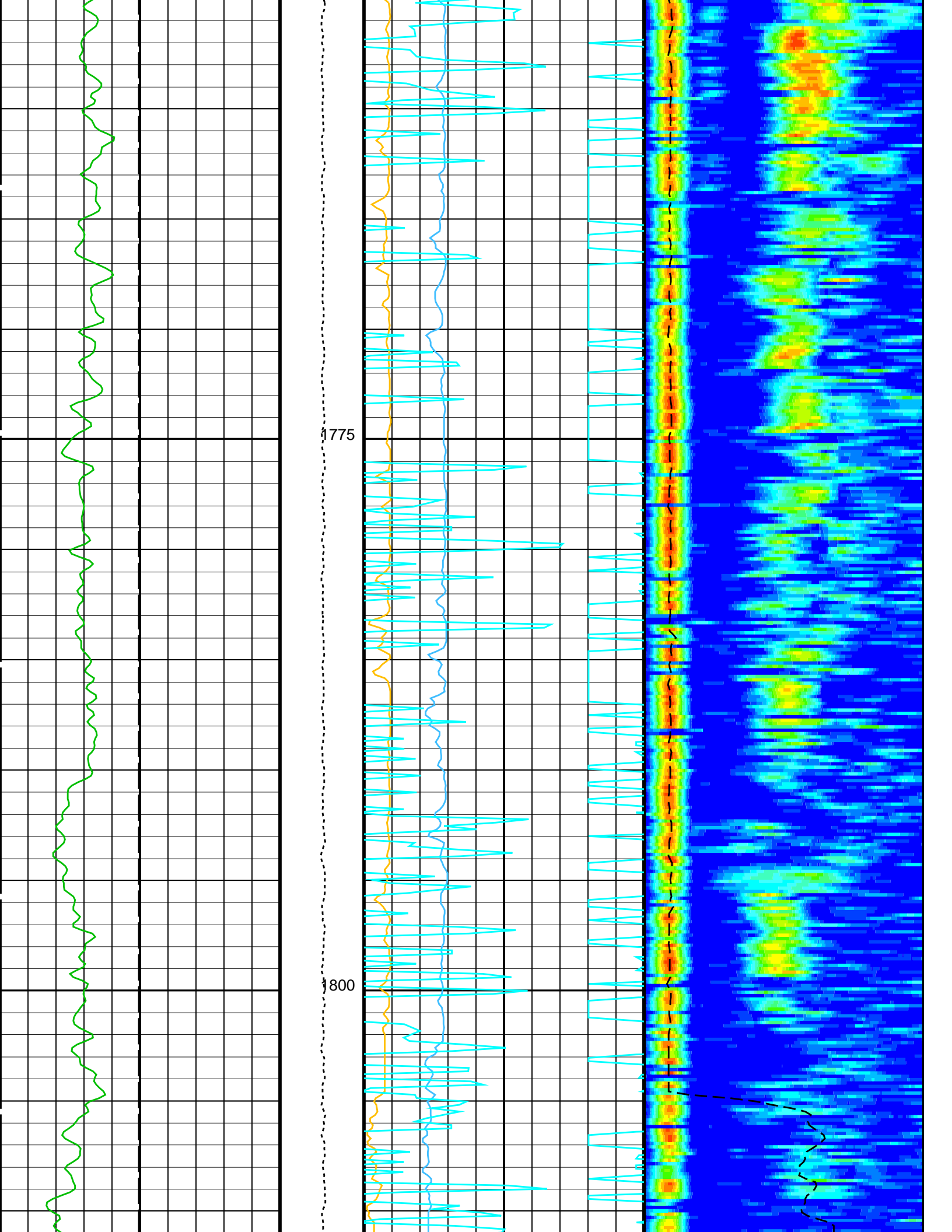
PIP SUMMARY					
Time Mark Every 60 S					

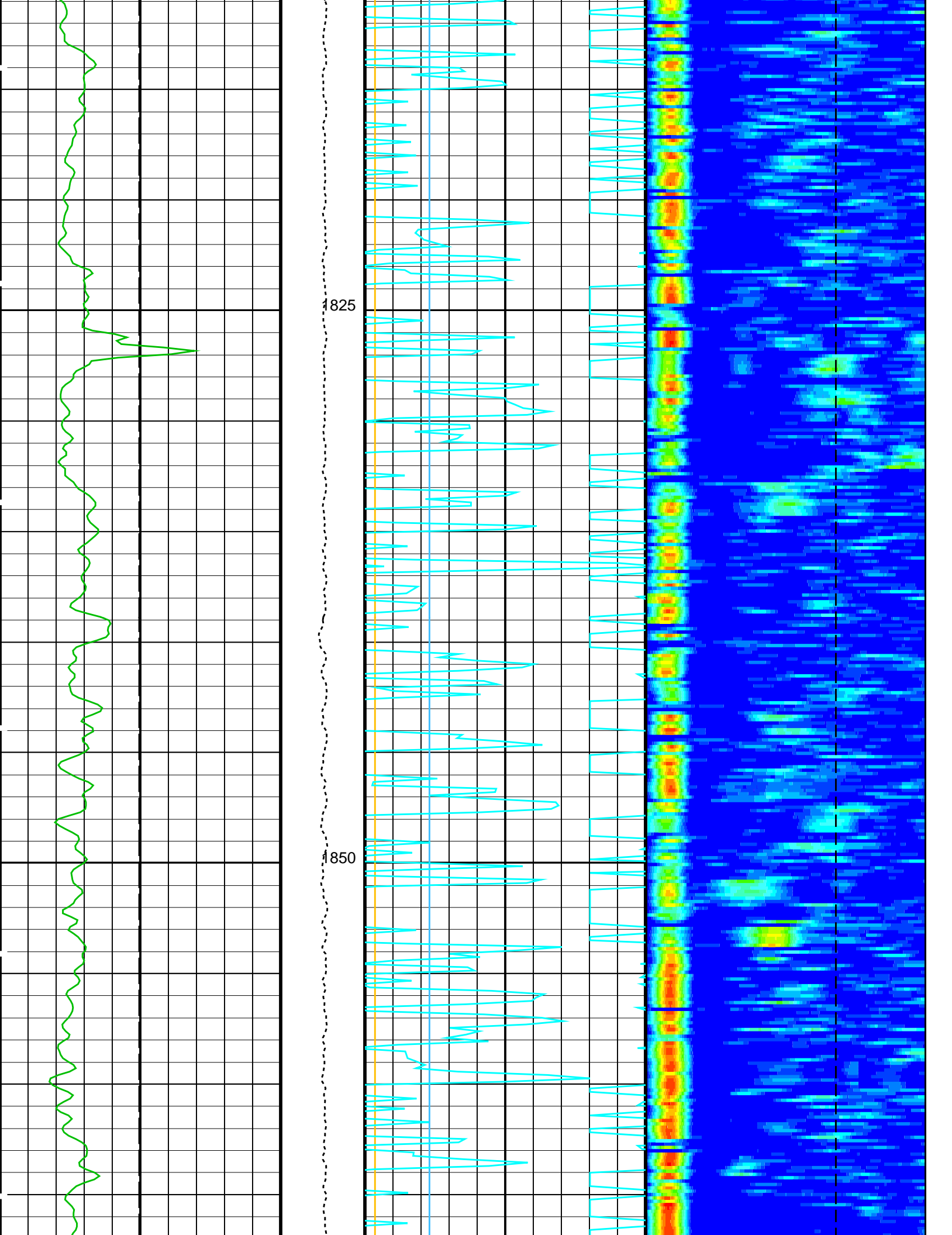
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		1000	(M/S)	6000	
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Gamma Ray (GR_EDTC)		Peak Coherence / RA – Upper Dipole		Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)	
0 (GAPI) 150		–2 (----) 8		75 1200	
Tension		Delta–T Shear / RA – Upper Dipole			

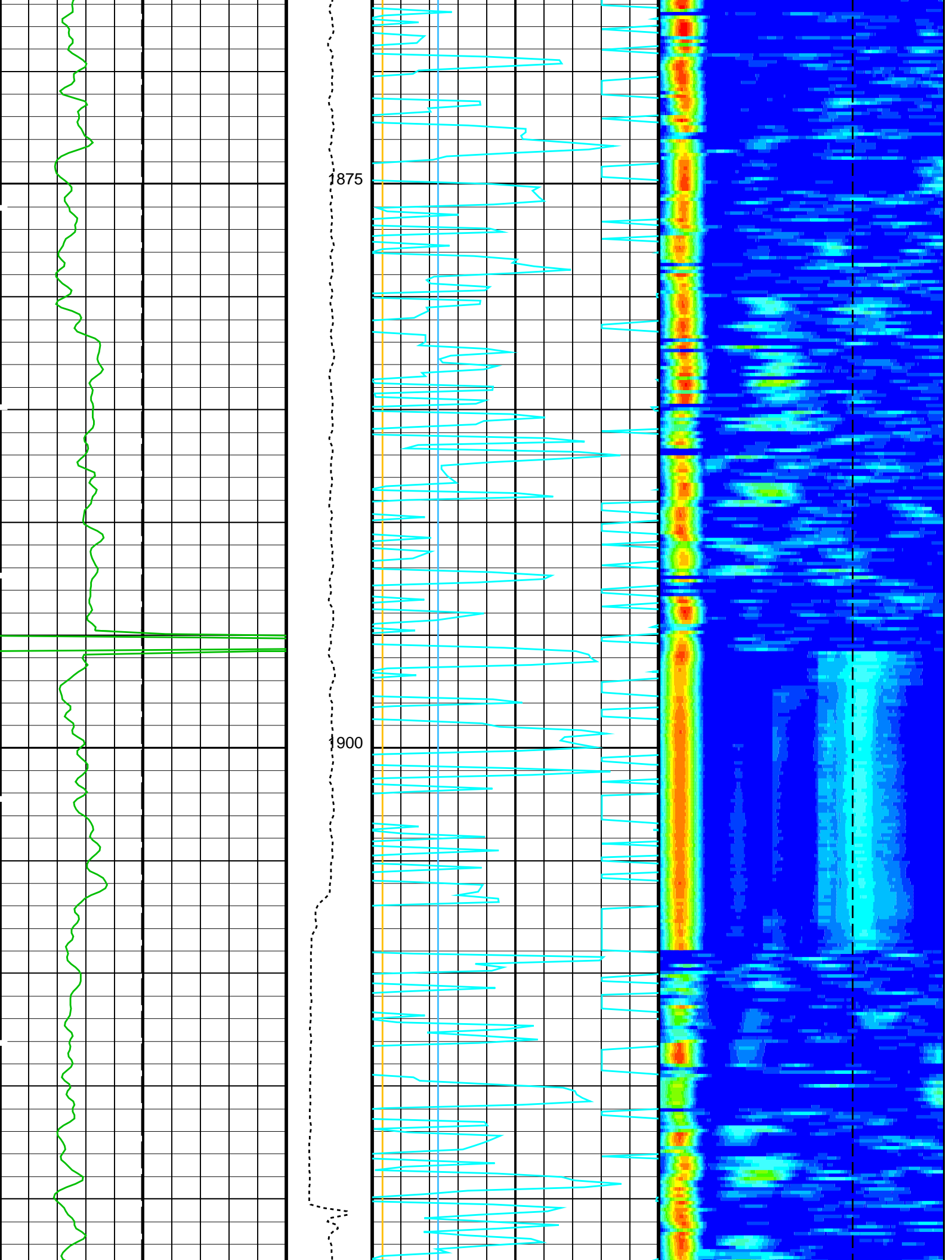


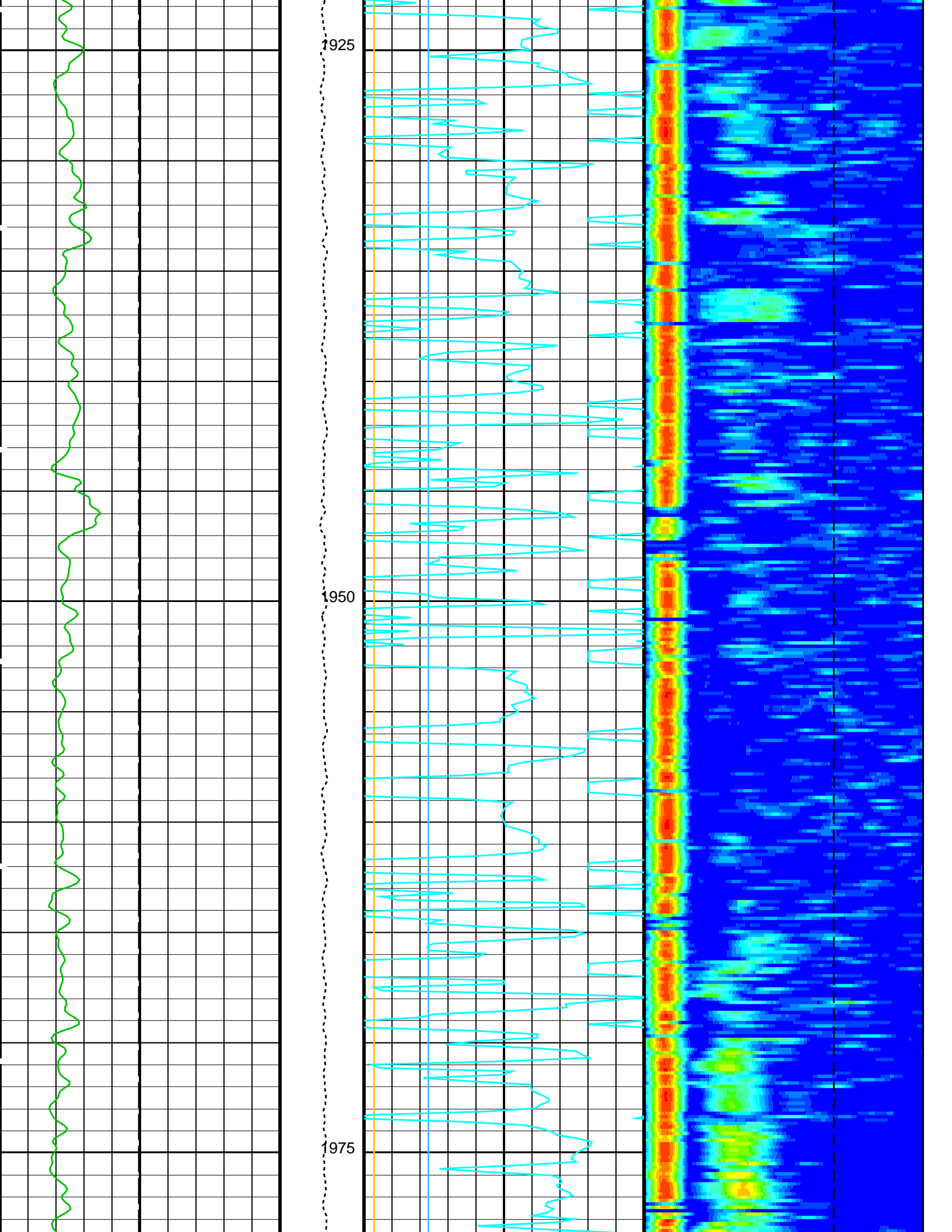


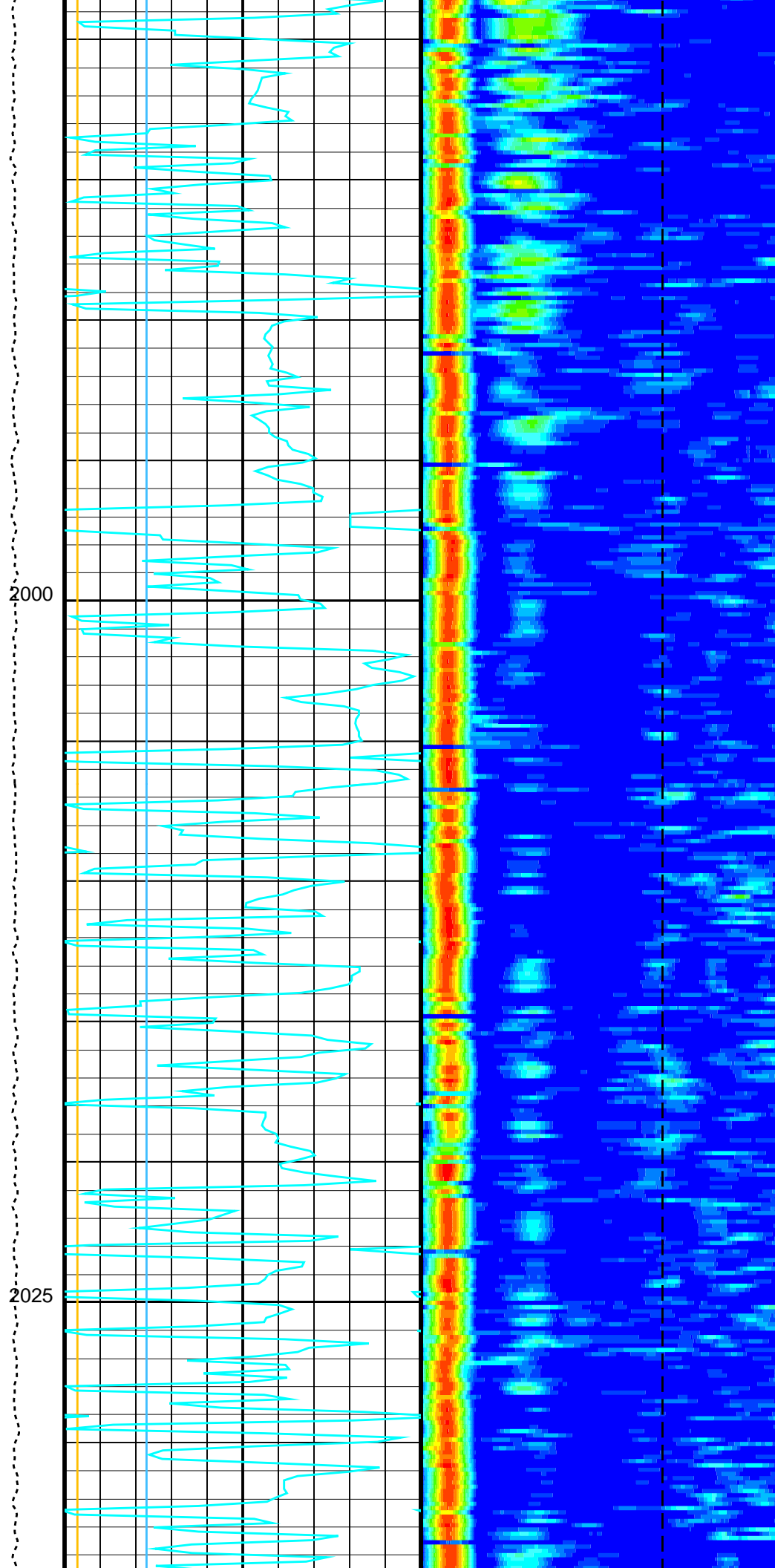
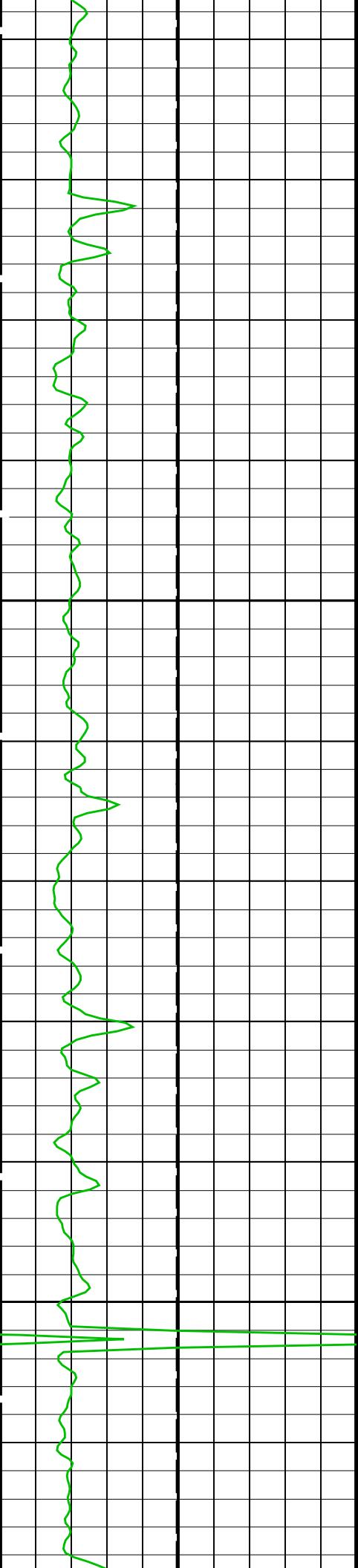


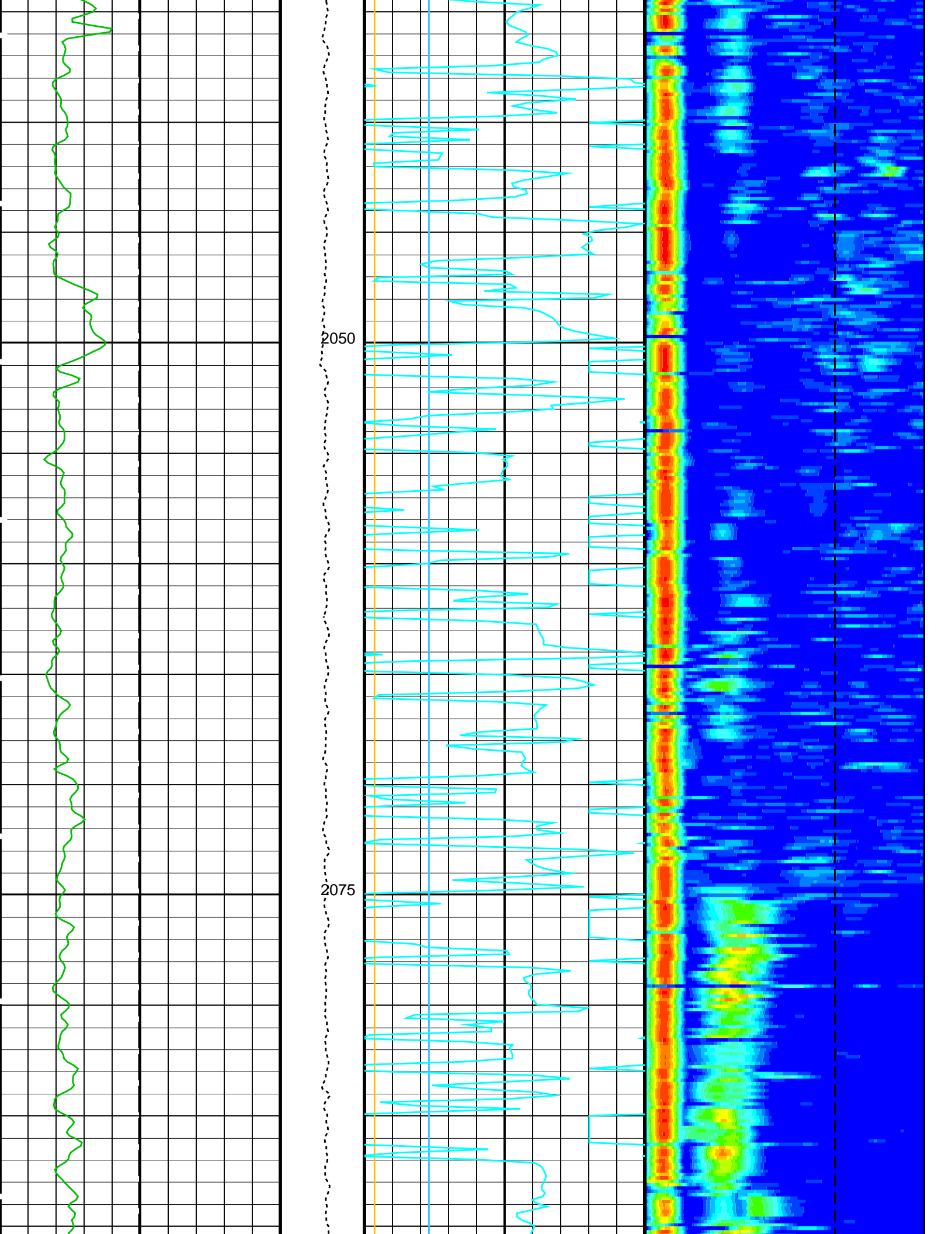


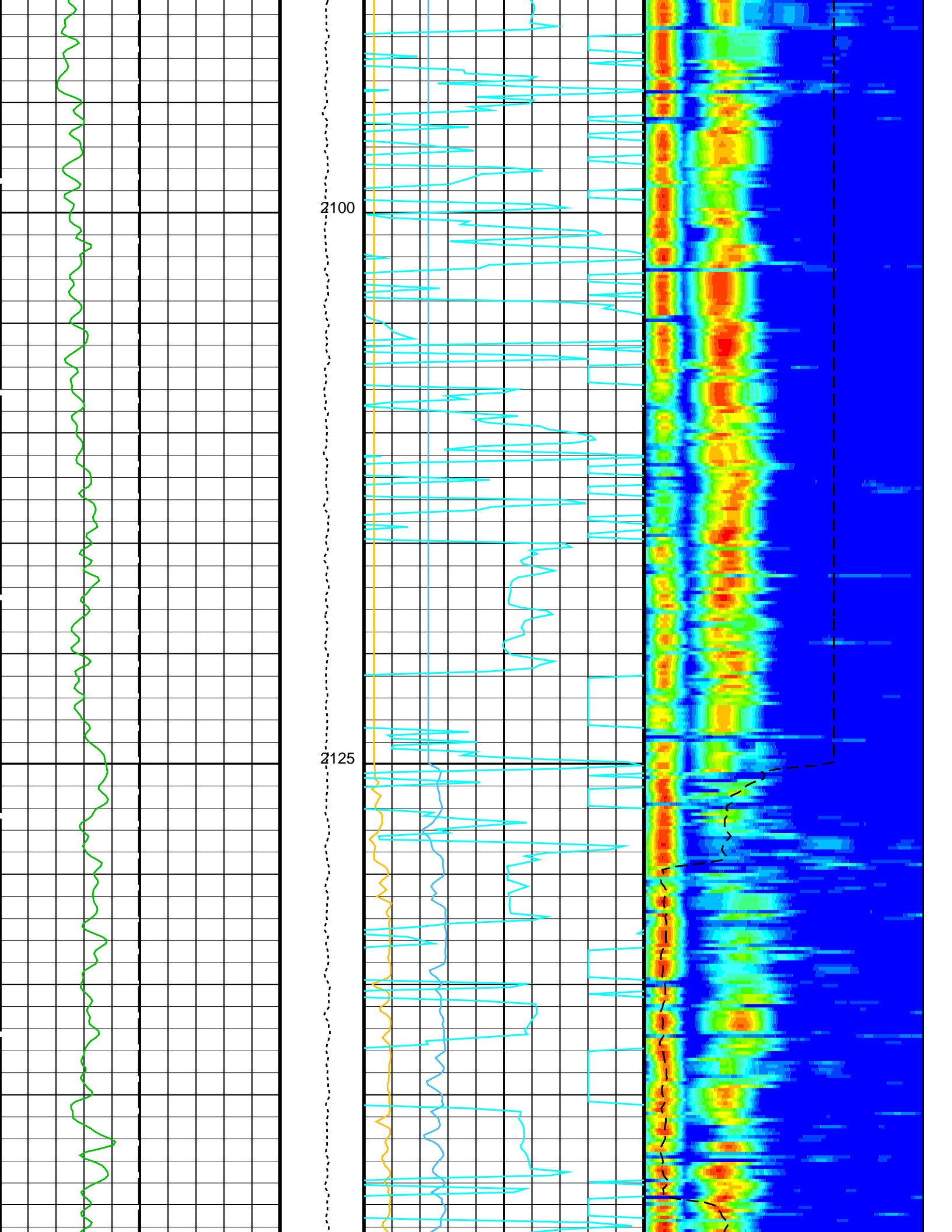


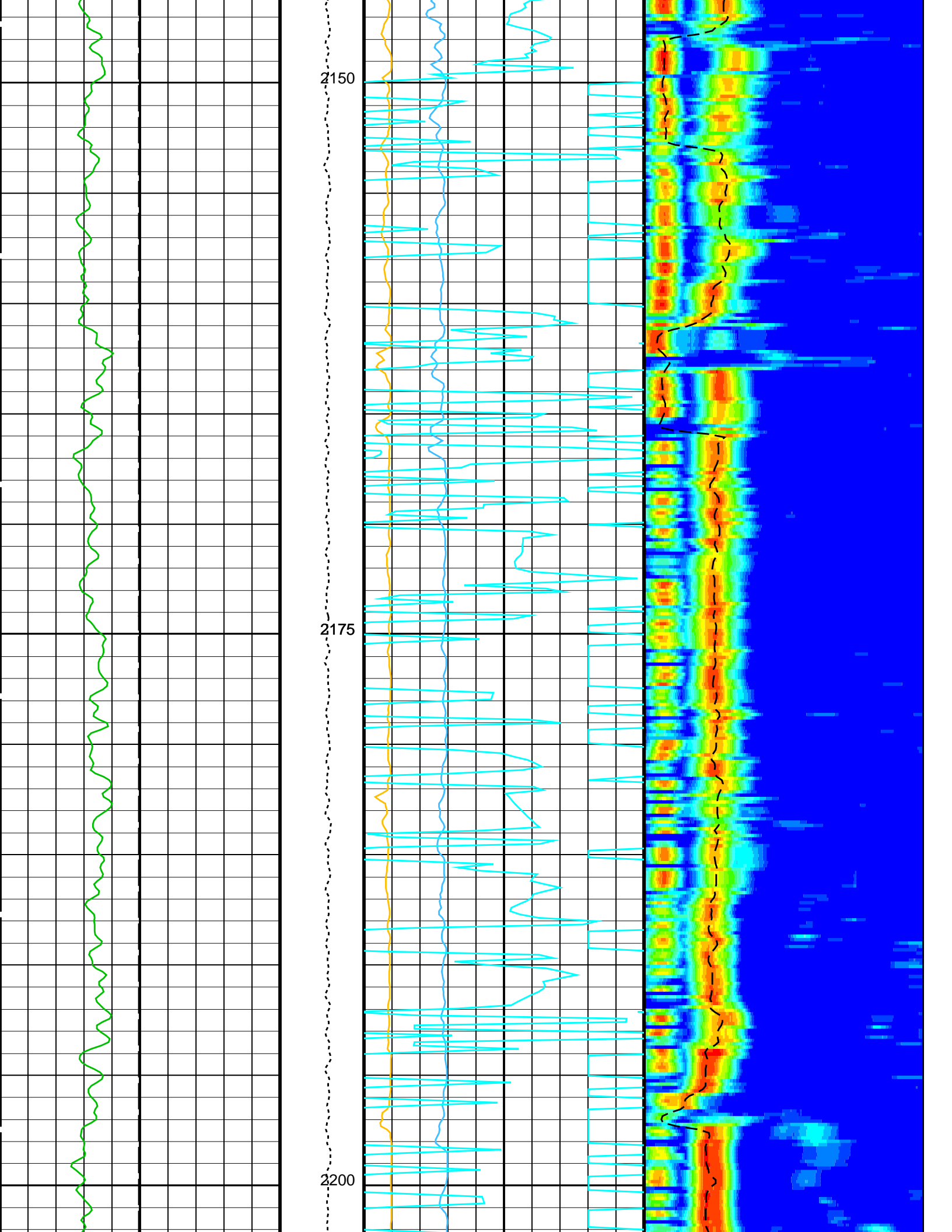




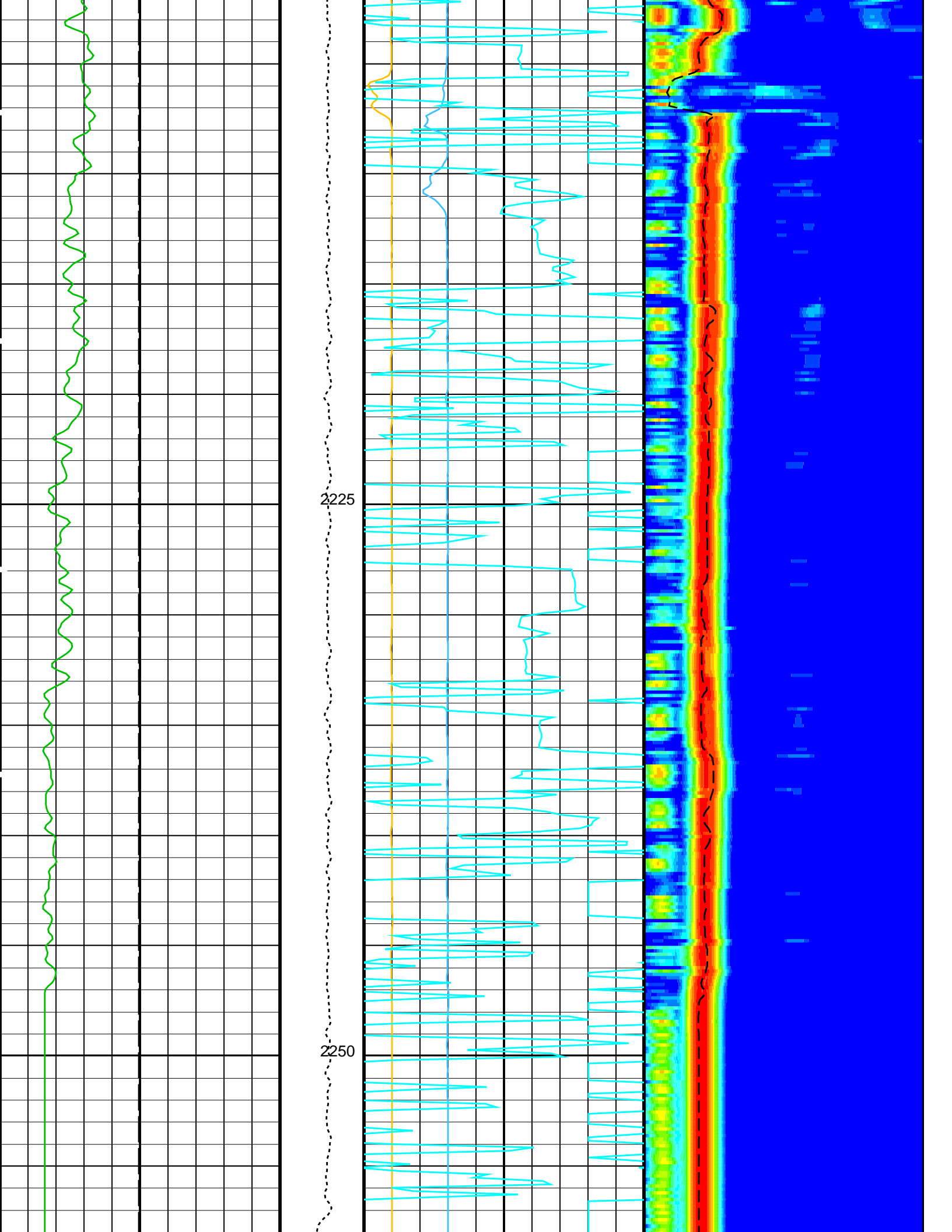


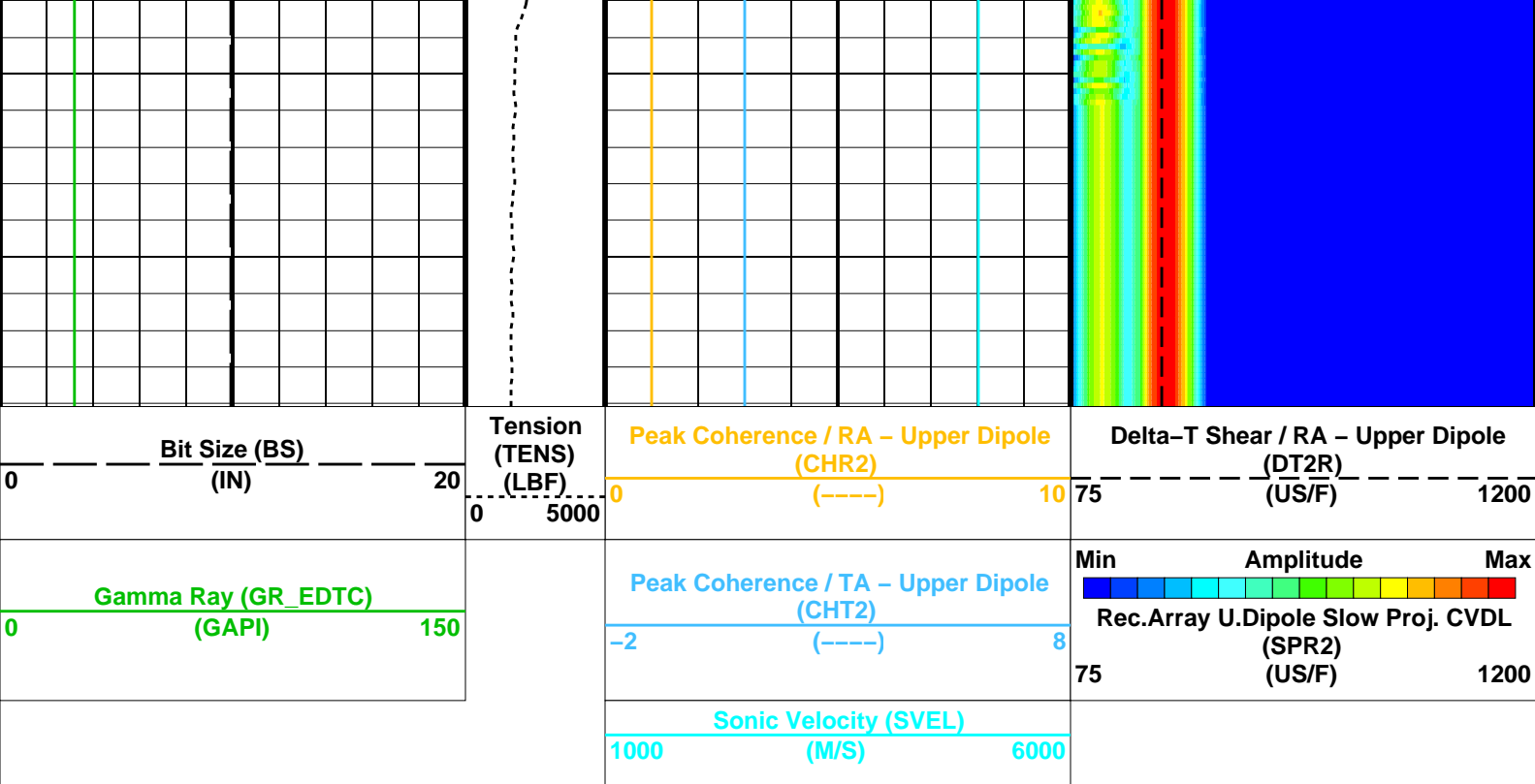












### PIP SUMMARY

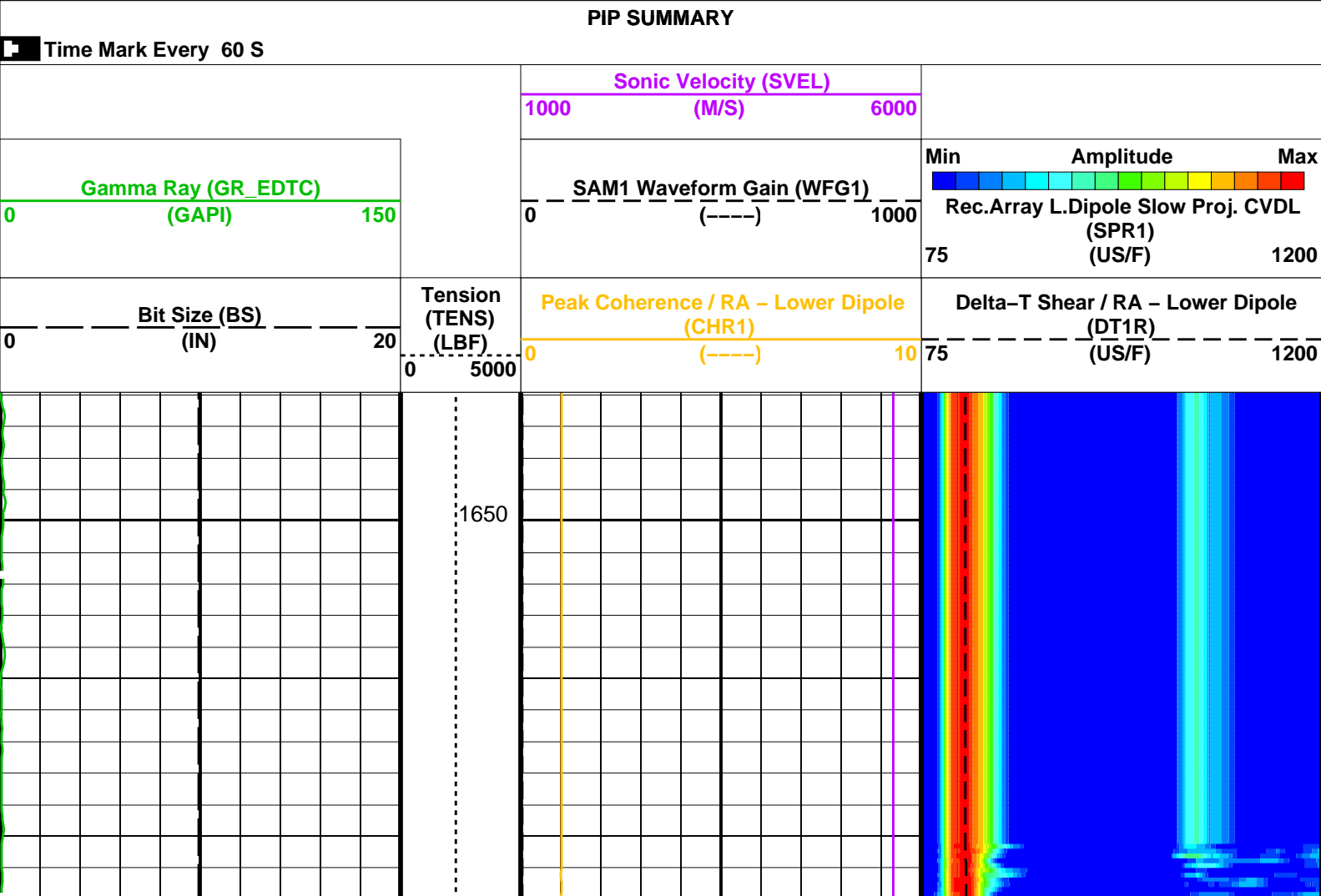
Time Mark Every 60 S

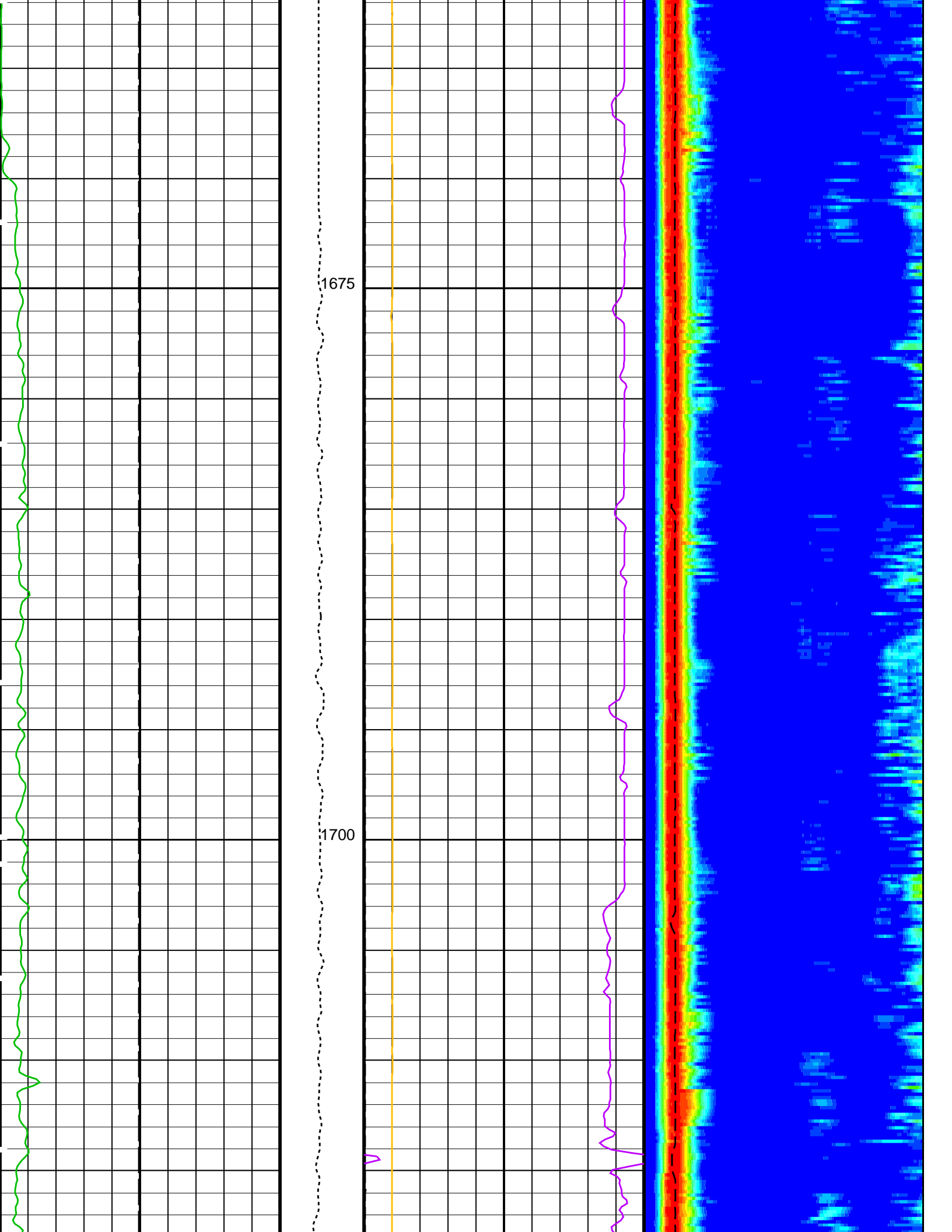
## Parameters

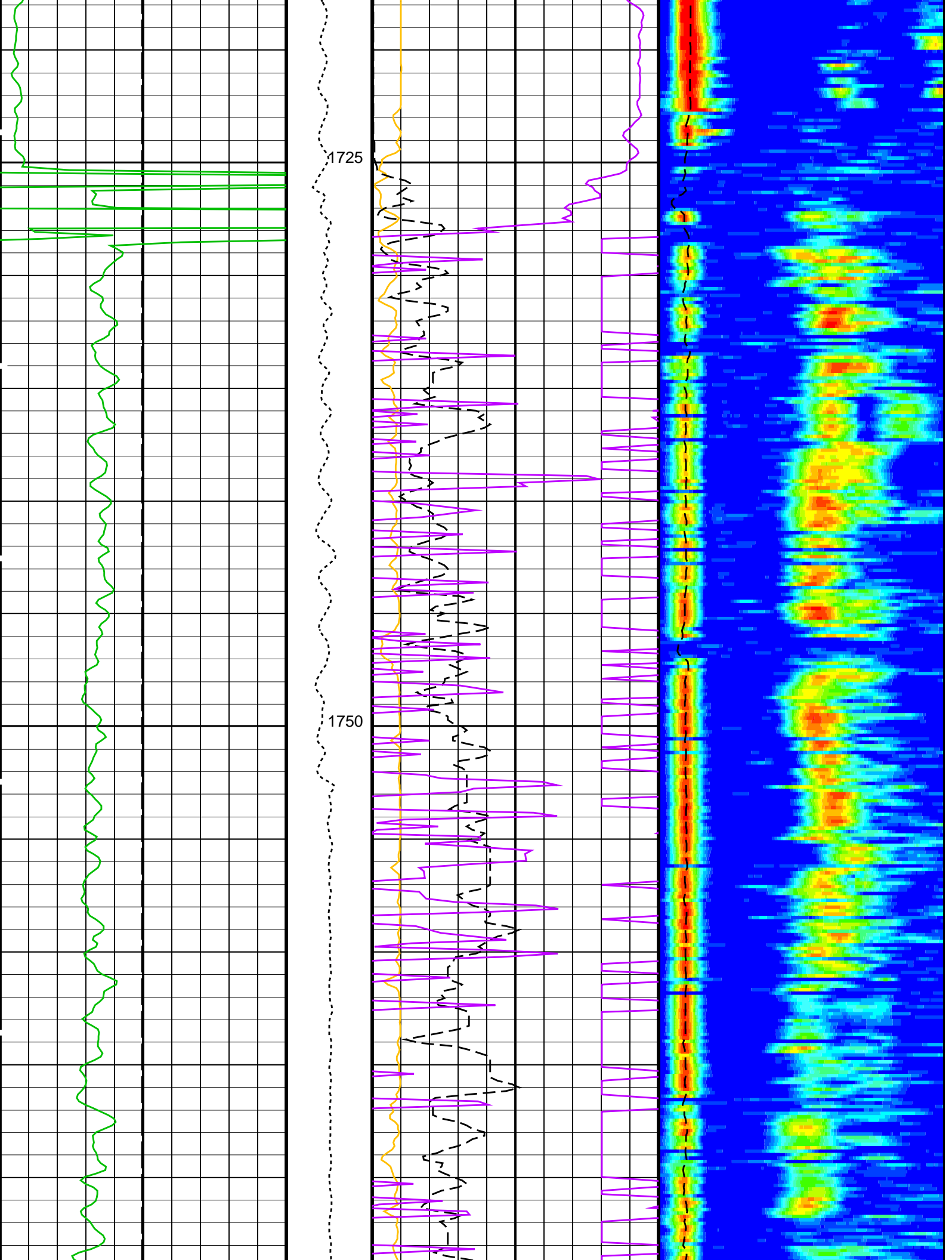
DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
DDE2	Digitizing Delay 2	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source - Dipole Shear	USE
DSHL	Label Slowness Lower Limit - Dipole Shear	40 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1000 US/F
DSI2	Digitizer Sample Interval 2	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DWC2	Digitizer Word Count 2	512
DWCX	Digitizer Word Count X	512
NWI2	Number Waveform Items 2	8
NWIX	Number Waveform Items X	0
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM2	DSST Sonic Acquisition Mode 2 - Upper Dipole Mode	LFD_ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS2	STC Sonic Array Status - Upper Dipole	255
SBO2	STC Search Band Offset - Upper Dipole	3000 US
SBW2	STC Search Bandwidth - Upper Dipole	8000 US
SFC2	STC Formation Character - Upper Dipole	SELECTABLE
SFM2	STC Filter - Upper Dipole	B.3-1.5K
SLL2	STC Slowness Lower Limit - Upper Dipole	40 US/F
SST2	STC Slowness Step - Upper Dipole	4 US/F
SSW2	STC Source Waveform - Upper Dipole	WF_SAM2
SUL2	STC Slowness Upper Limit - Upper Dipole	1400 US/F
SWD2	STC Slowness Width - Upper Dipole	40 US/F
TBF2	STC Time for Baseline Fill - Upper Dipole	0 US
TLL2	STC Time Lower Limit - Upper Dipole	600 US
TST2	STC Time Step - Upper Dipole	200 US
TUL2	STC Time Upper Limit - Upper Dipole	20440 US
TWD2	STC Time Width - Upper Dipole	2000 US
TWI2	STC Integration Time Window - Upper Dipole	1600 US
TWSX	Transmitter Waveform Select X	0
UTXG	Upper Dipole Transmitter Geometry	162 IN
System and Miscellaneous		

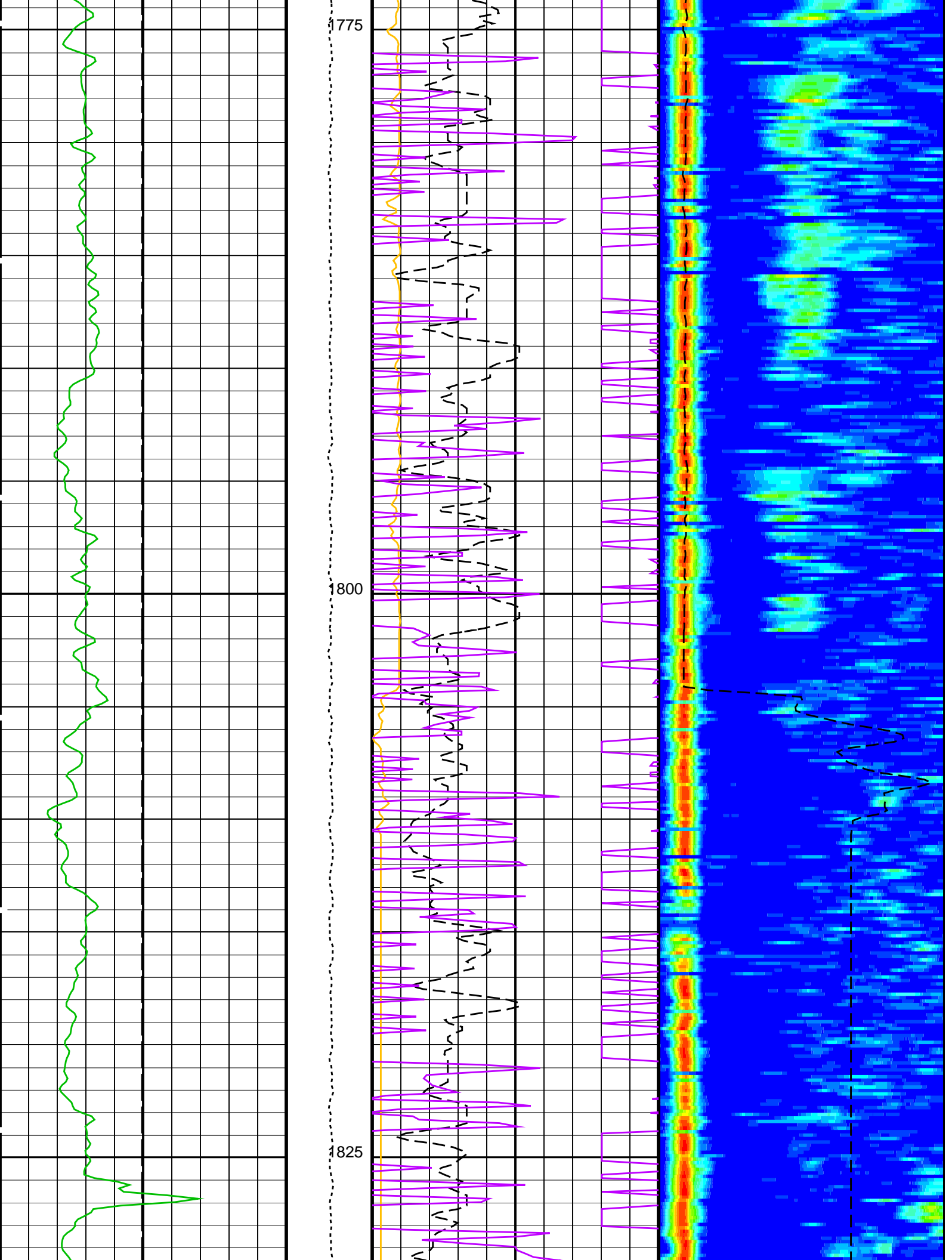
BS DO PP	Bit Size Depth Offset for Playback Playback Processing	9.875 IN 0.0 M NORMAL
Format: DSST_UPPER_DIPOLE_VDL_COLOR    Vertical Scale: 1:200    Graphics File Created: 24-Dec-2023 17:00		
OP System Version: 19C0-187		
DSST-B HNGS-BA	19C0-187 19C0-187	HNGC-B EDTC-B    19C0-187 19C0-187
Input DLIS Files		
DEFAULT	Flip_DSI_NGS_031PUP	PRODUCER    24-Dec-2023 16:59    2269.1 M    1645.9 M
Output DLIS Files		
DEFAULT	DSI_NGS_032PUP	FN:25    PRODUCER    24-Dec-2023 17:00

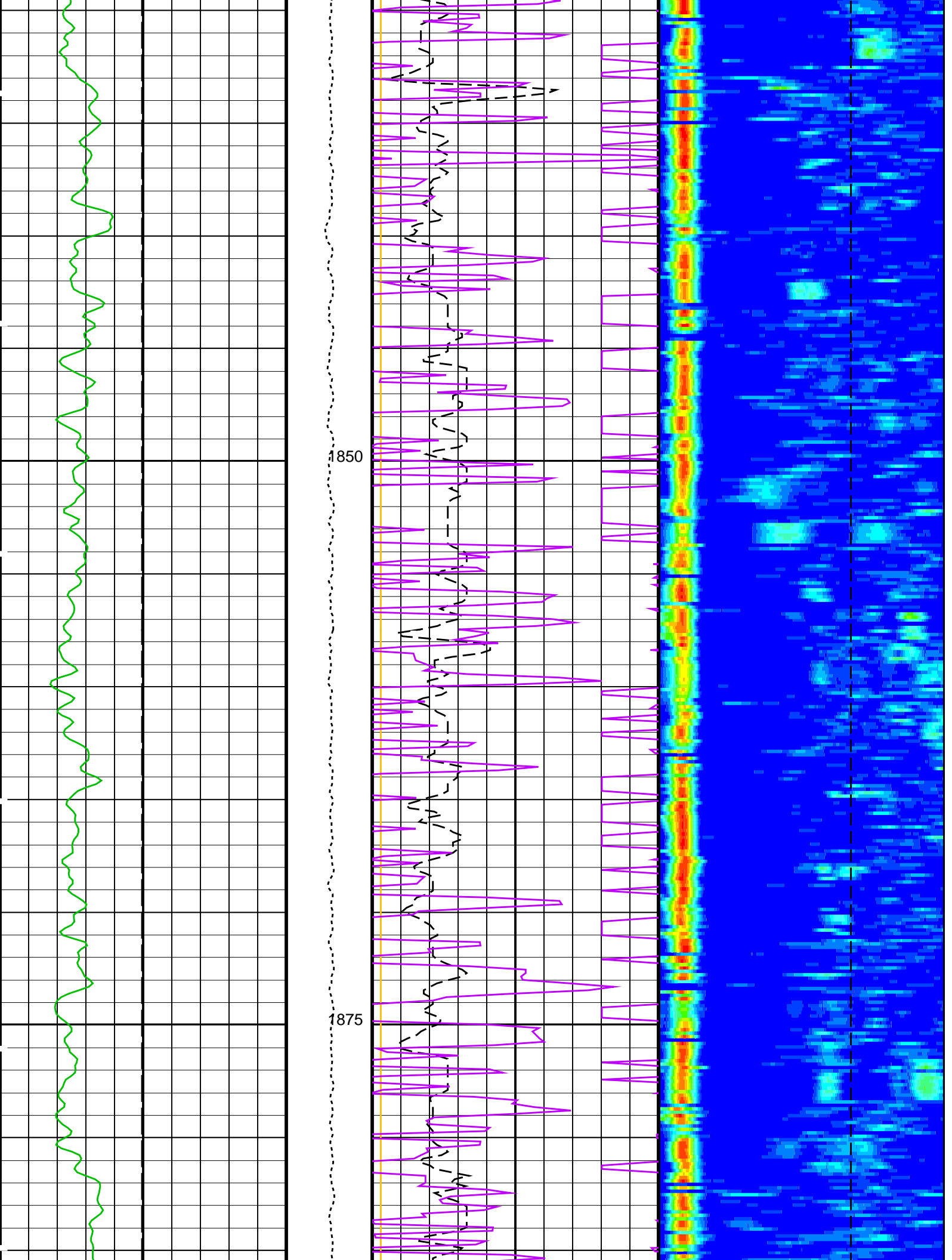
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Output DLIS Files		
DEFAULT	DSI_NGS_032PUP	FN:25    PRODUCER    24-Dec-2023 17:00    2269.1 M    1645.9 M
OP System Version: 19C0-187		
DSST-B HNGS-BA	19C0-187 19C0-187	HNGC-B EDTC-B    19C0-187 19C0-187

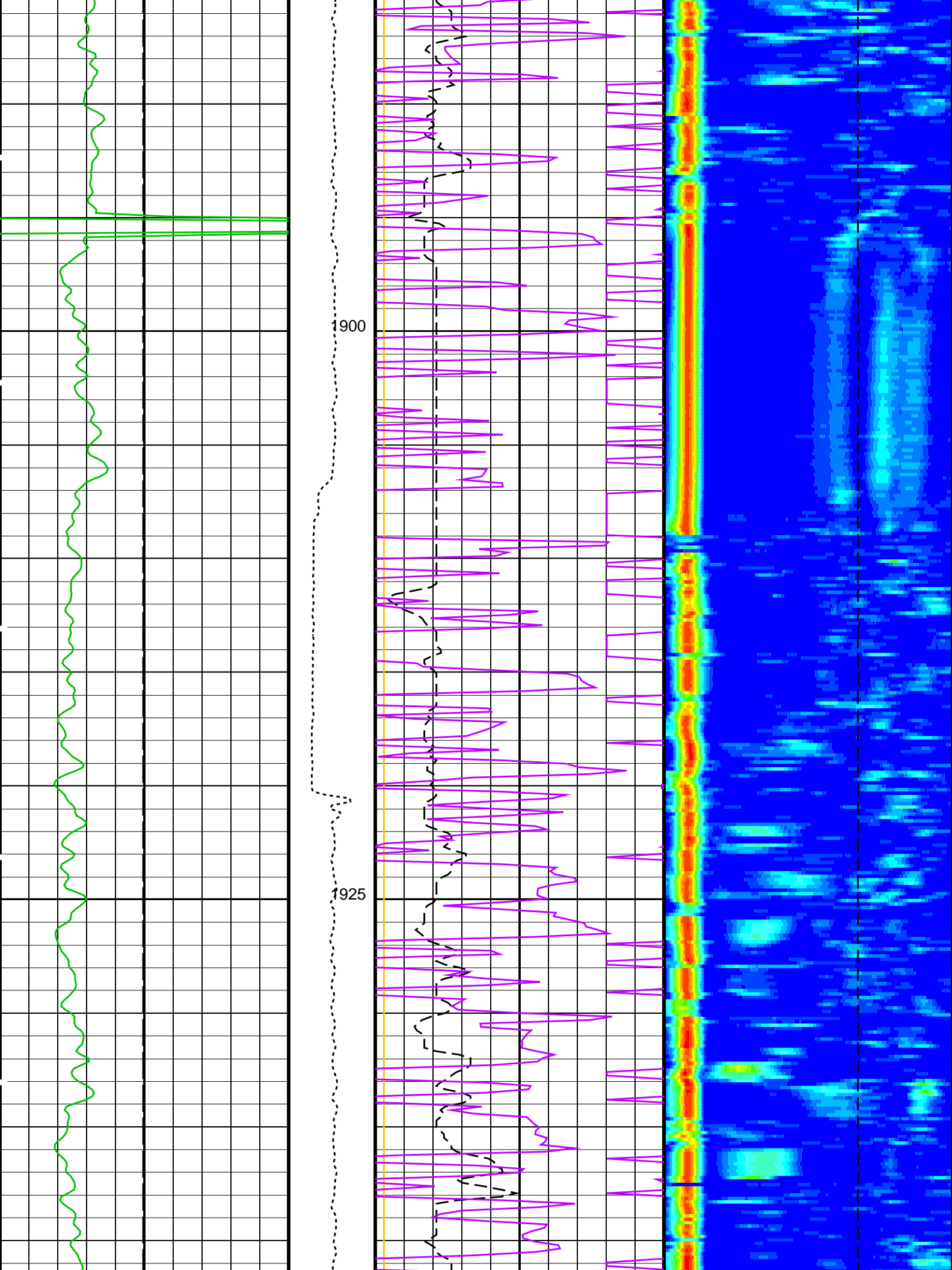




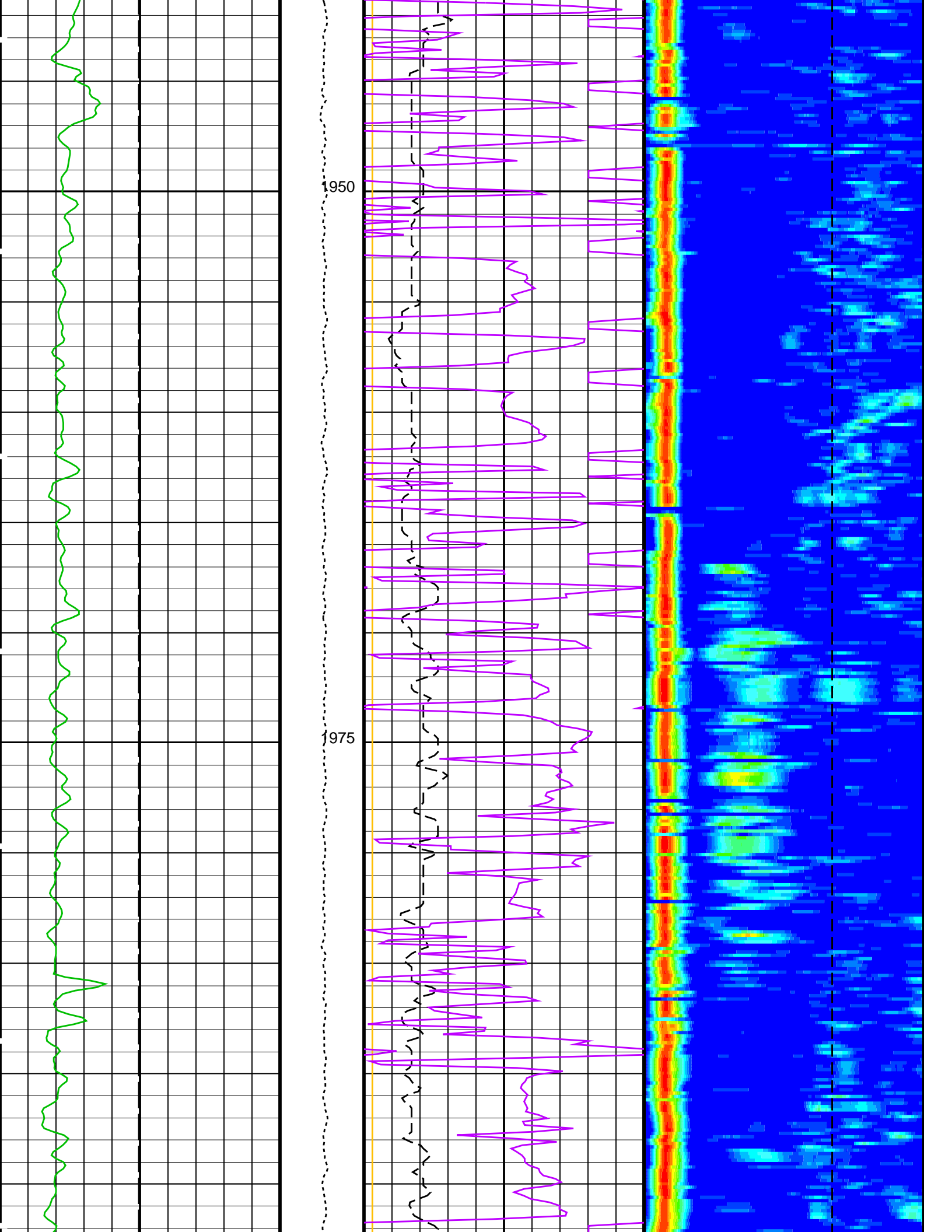


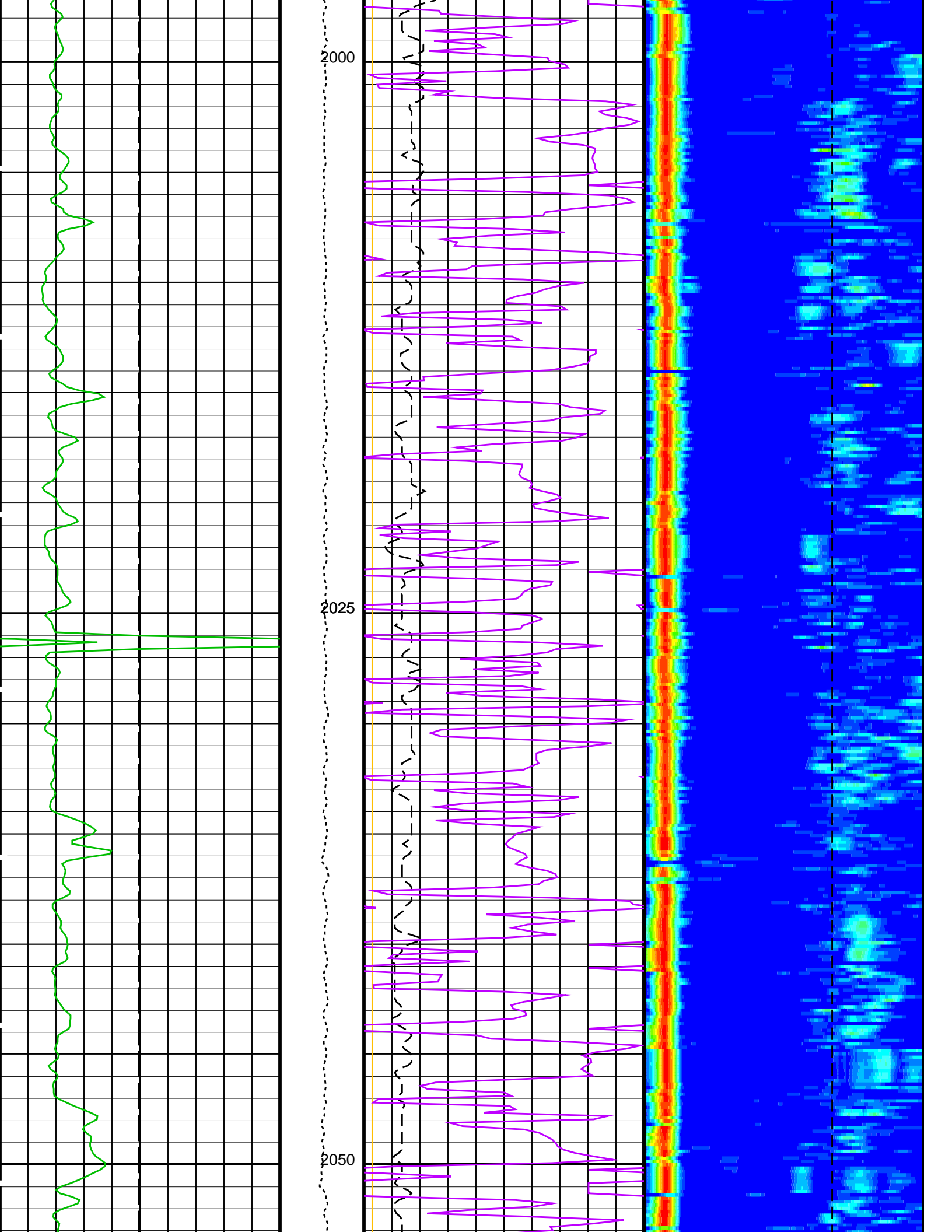


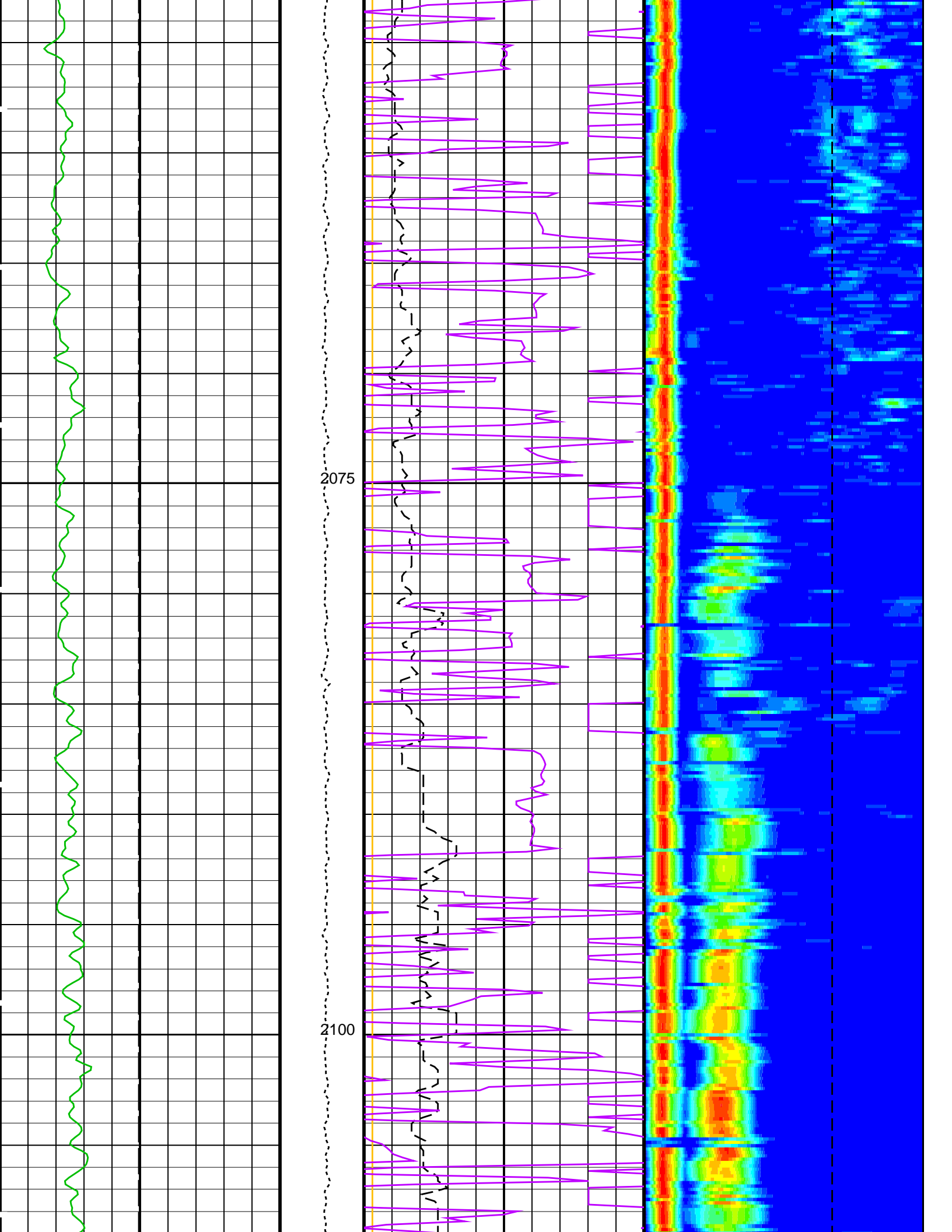


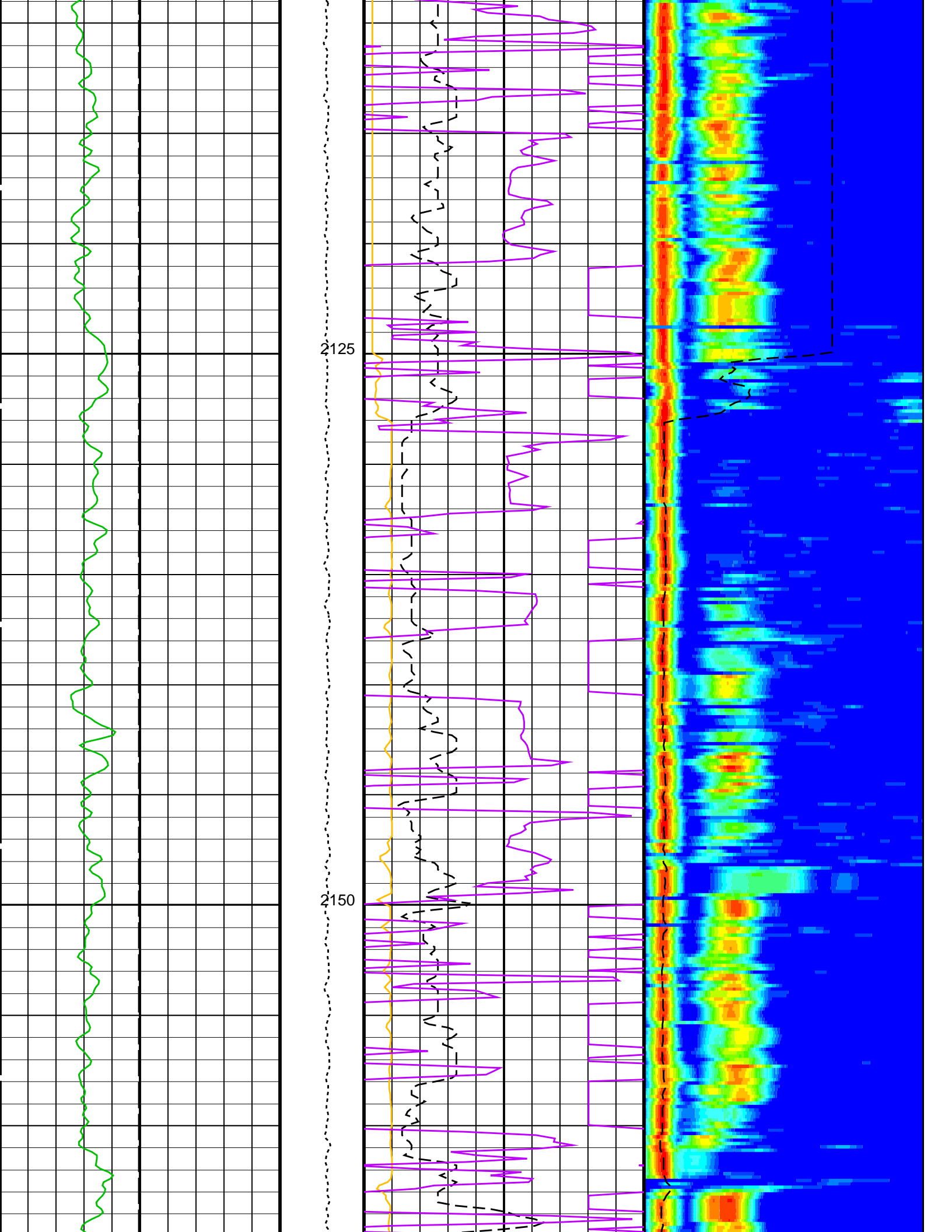


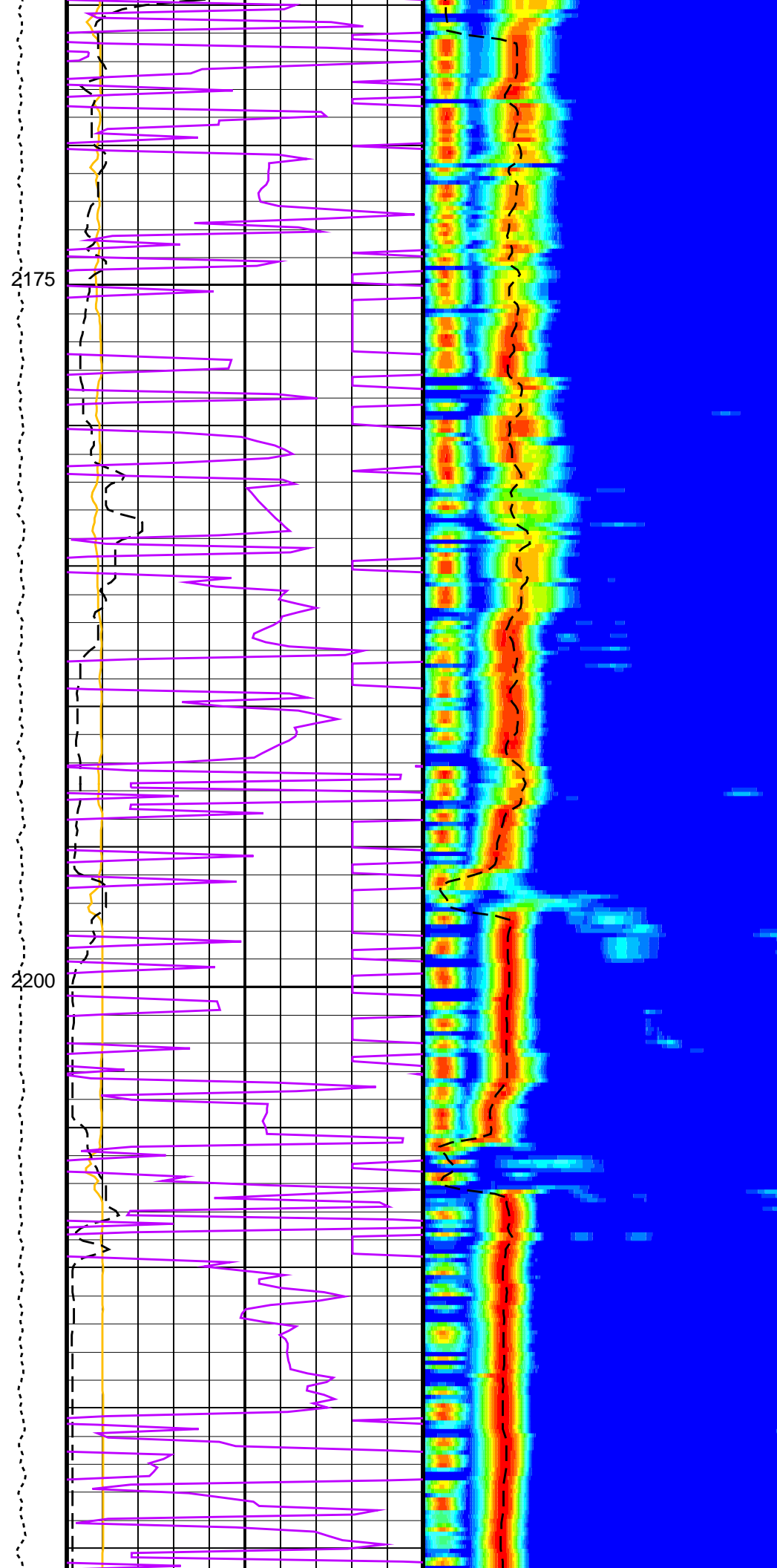
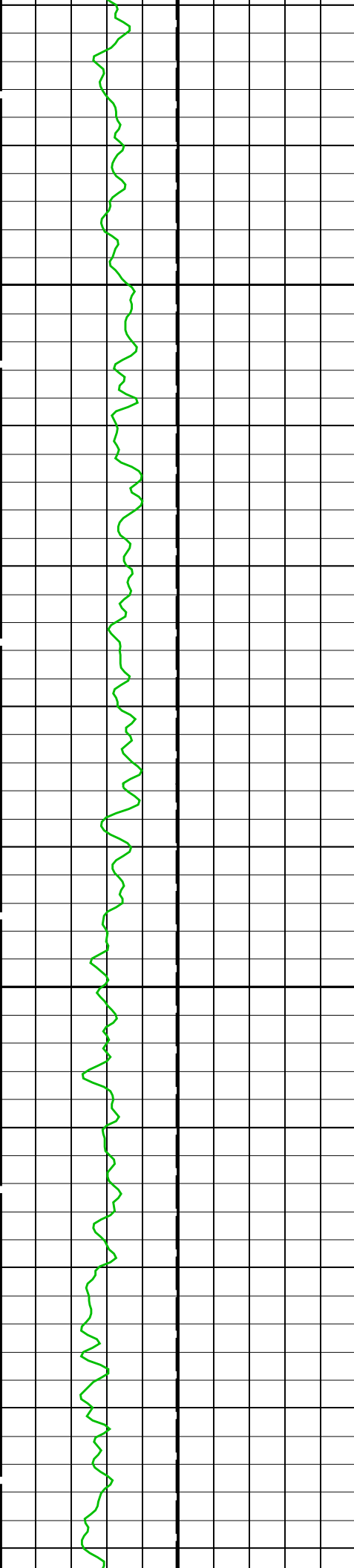


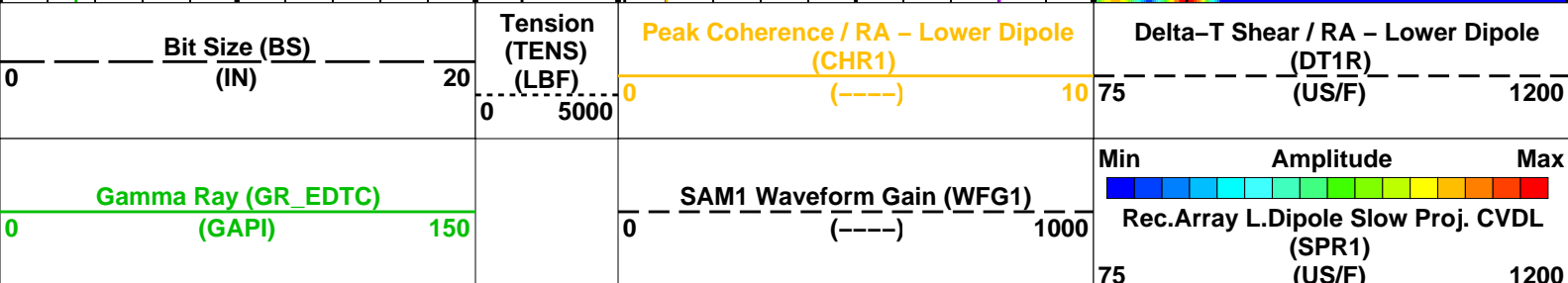
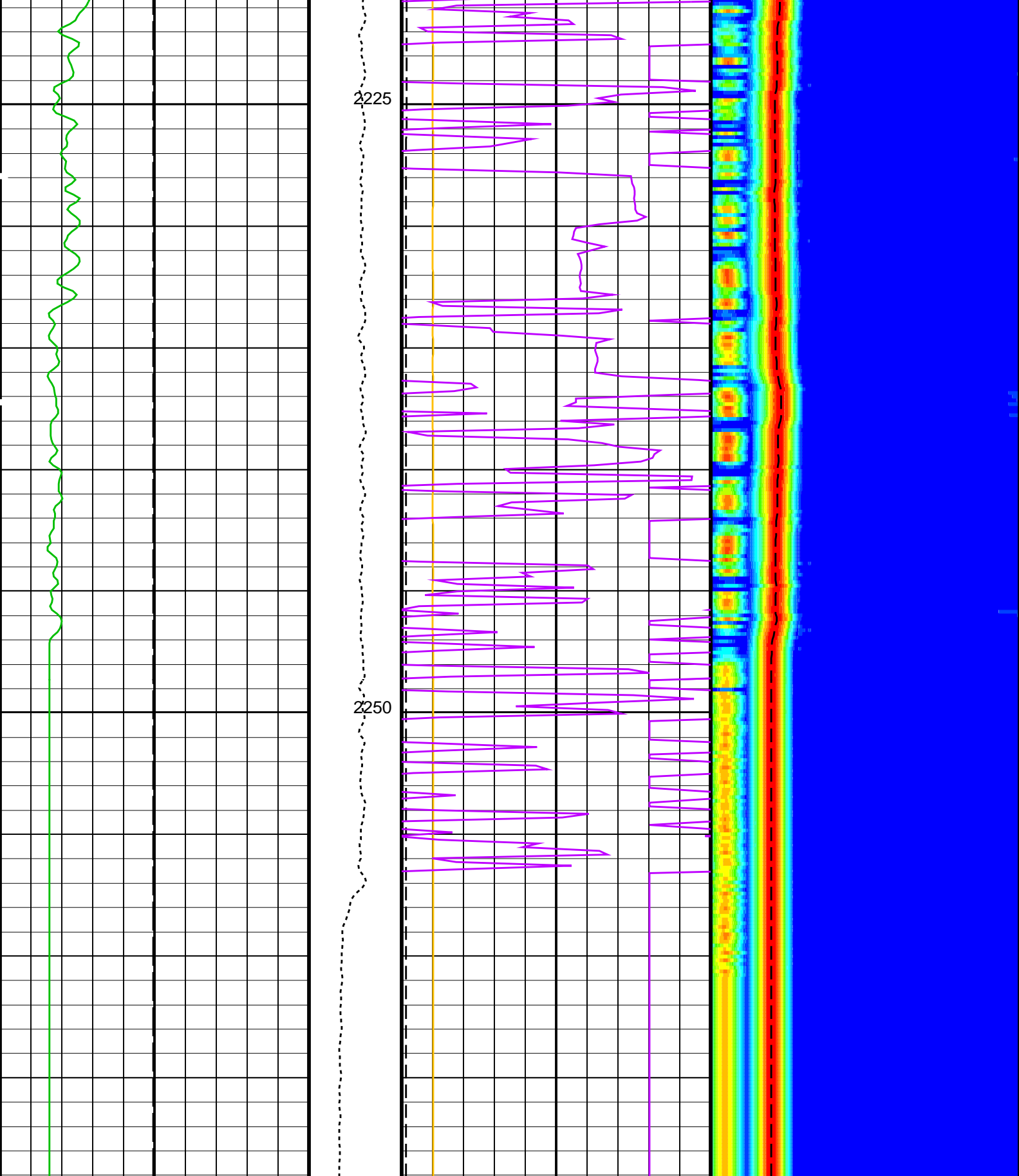












		Sonic Velocity (SVEL)			
		1000	(M/S)	6000	
PIP SUMMARY					
Time Mark Every 60 S					
Parameters					
DLIS Name		Description		Value	
DSST-B: Dipole Shear Imager – B					
DDE1		Digitizing Delay 1	0	US	
DDEX		Digitizing Delay X	0	US	
DLCS		Label Compressional Source – Dipole Shear	USE		
DSHL		Label Slowness Lower Limit – Dipole Shear	40	US/F	
DSHU		Label Slowness Upper Limit – Dipole Shear	1000	US/F	
DSI1		Digitizer Sample Interval 1	40	US	
DSIX		Digitizer Sample Interval X	40	US	
DTCS		Compressional Delta–T Source for DTCT Channel	PS_COMP		
DWC1		Digitizer Word Count 1	512		
DWCX		Digitizer Word Count X	512		
LTXG		Lower Dipole Transmitter Geometry	156	IN	
NW11		Number Waveform Items 1	8		
NWIX		Number Waveform Items X	0		
RX1G		Receiver 1 Geometry	294	IN	
RX2G		Receiver 2 Geometry	300	IN	
RX3G		Receiver 3 Geometry	306	IN	
RX4G		Receiver 4 Geometry	312	IN	
RX5G		Receiver 5 Geometry	318	IN	
RX6G		Receiver 6 Geometry	324	IN	
RX7G		Receiver 7 Geometry	330	IN	
RX8G		Receiver 8 Geometry	336	IN	
SAM1		DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN		
SAMX		DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF		
SAS1		STC Sonic Array Status – Lower Dipole	255		
SBO1		STC Search Band Offset – Lower Dipole	3000	US	
SBW1		STC Search Bandwidth – Lower Dipole	8000	US	
SFC1		STC Formation Character – Lower Dipole	SELECTABLE		
SFM1		STC Filter – Lower Dipole	B.3–1.5K		
SLL1		STC Slowness Lower Limit – Lower Dipole	40	US/F	
SST1		STC Slowness Step – Lower Dipole	4	US/F	
SSW1		STC Source Waveform – Lower Dipole	WF_SAM1		
SUL1		STC Slowness Upper Limit – Lower Dipole	1400	US/F	
SWD1		STC Slowness Width – Lower Dipole	40	US/F	
TBF1		STC Time for Baseline Fill – Lower Dipole	0	US	
TLL1		STC Time Lower Limit – Lower Dipole	600	US	
TST1		STC Time Step – Lower Dipole	200	US	
TUL1		STC Time Upper Limit – Lower Dipole	20440	US	
TWD1		STC Time Width – Lower Dipole	2000	US	
TW11		STC Integration Time Window – Lower Dipole	1600	US	
TWSX		Transmitter Waveform Select X	0		
WFM1		Waveform Mode 1	W1		
System and Miscellaneous					
BS		Bit Size	9.875	IN	
DO		Depth Offset for Playback	0.0	M	
PP		Playback Processing	NORMAL		
Format: DSST_LOWER_DIPOLE_VDL_COLOR    Vertical Scale: 1:200    Graphics File Created: 24-Dec-2023 17:00					
OP System Version: 19C0–187					
DSST–B	19C0–187	HNGC–B	19C0–187		
HNGS–BA	19C0–187	EDTC–B	19C0–187		
Input DLIS Files					
DEFAULT	Flip_DSI_NGS_031PUP	PRODUCER	24-Dec-2023 16:59	2269.1 M	1645.9 M
Output DLIS Files					
DEFAULT	DSI_NGS_032PUP	FN:25	PRODUCER	24-Dec-2023 17:00	
Company: International Ocean Discovery Program    Well: Expedition 401, Site U1609A					
Input DLIS Files					

Input DLIS Files

DEFAULT Flip\_DSI\_NGS\_031PUP PRODUCER 24-Dec-2023 16:59 2269.1 M 1645.9 M

Output DLIS Files

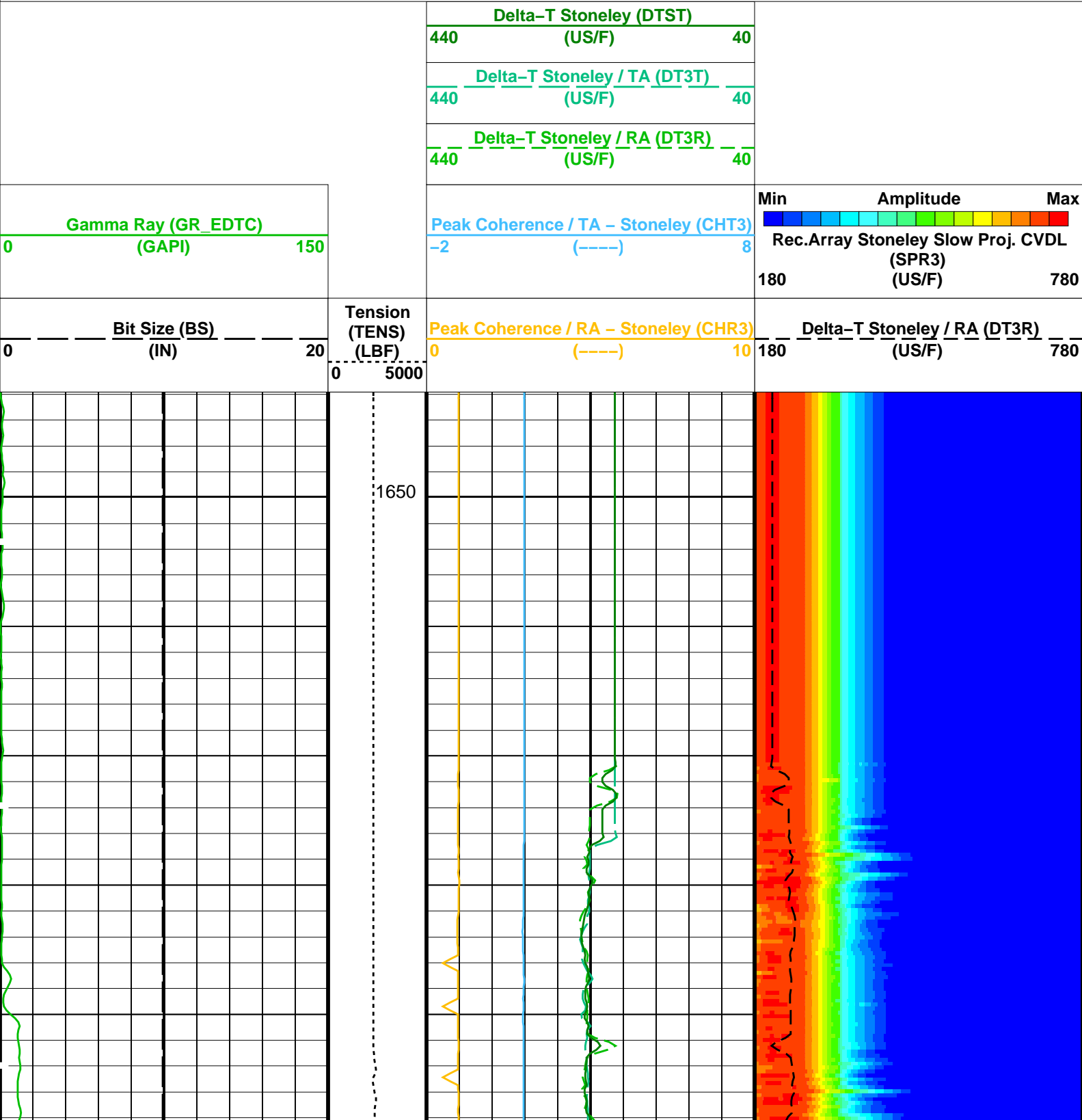
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OP System Version: 19C0-187

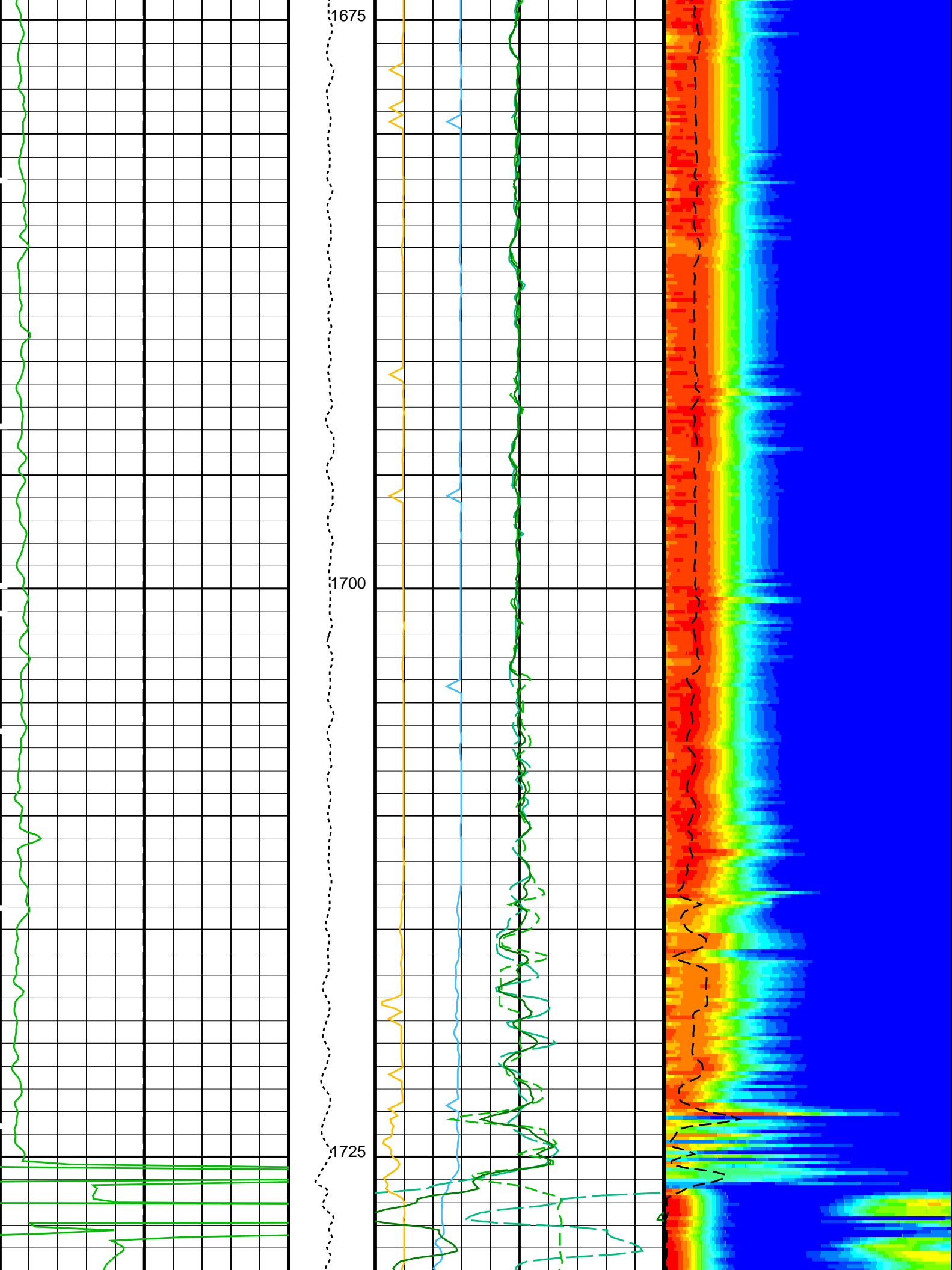
DSST-B 19C0-187 HNGC-B 19C0-187  
HNGS-BA 19C0-187 EDTC-B 19C0-187

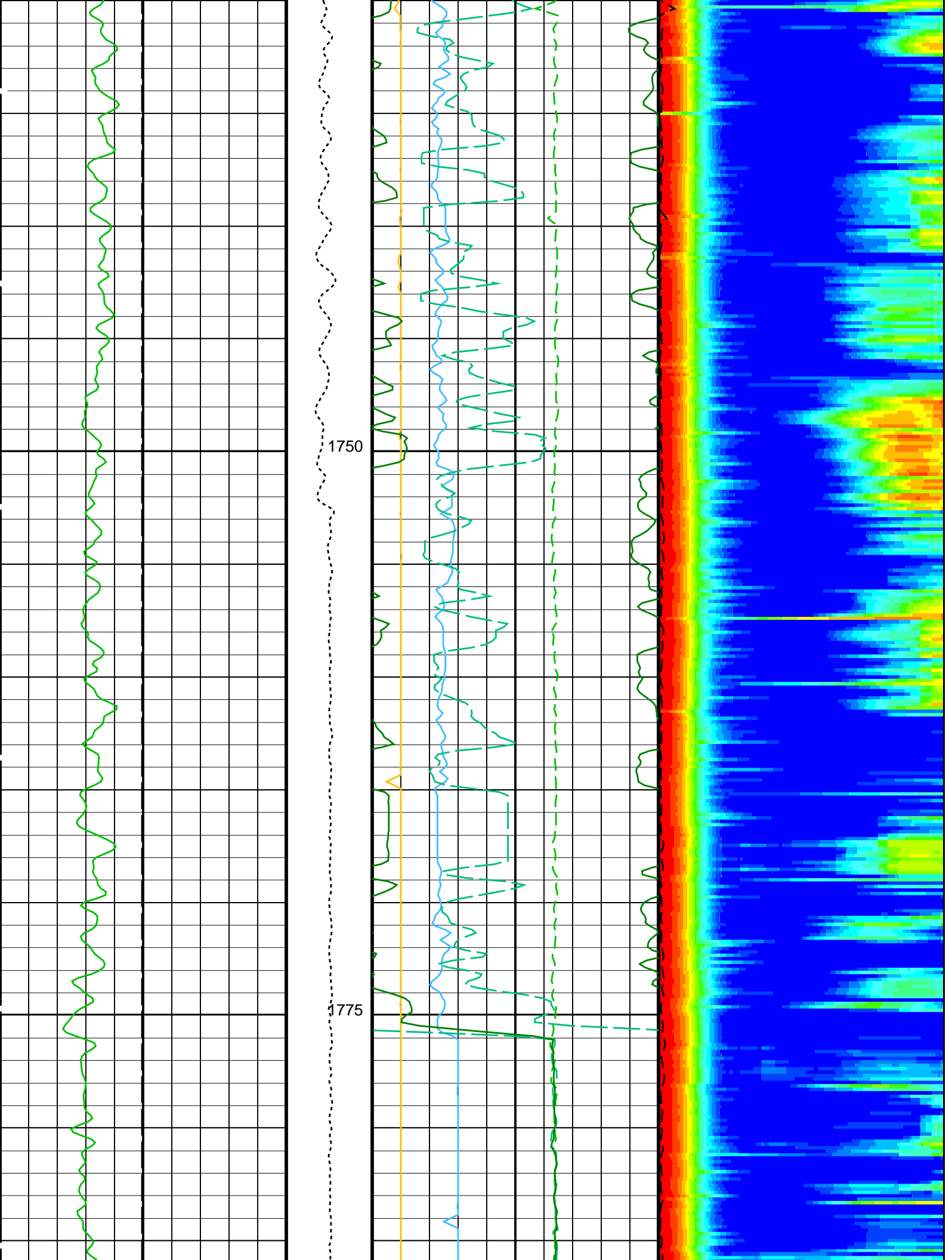
PIP SUMMARY

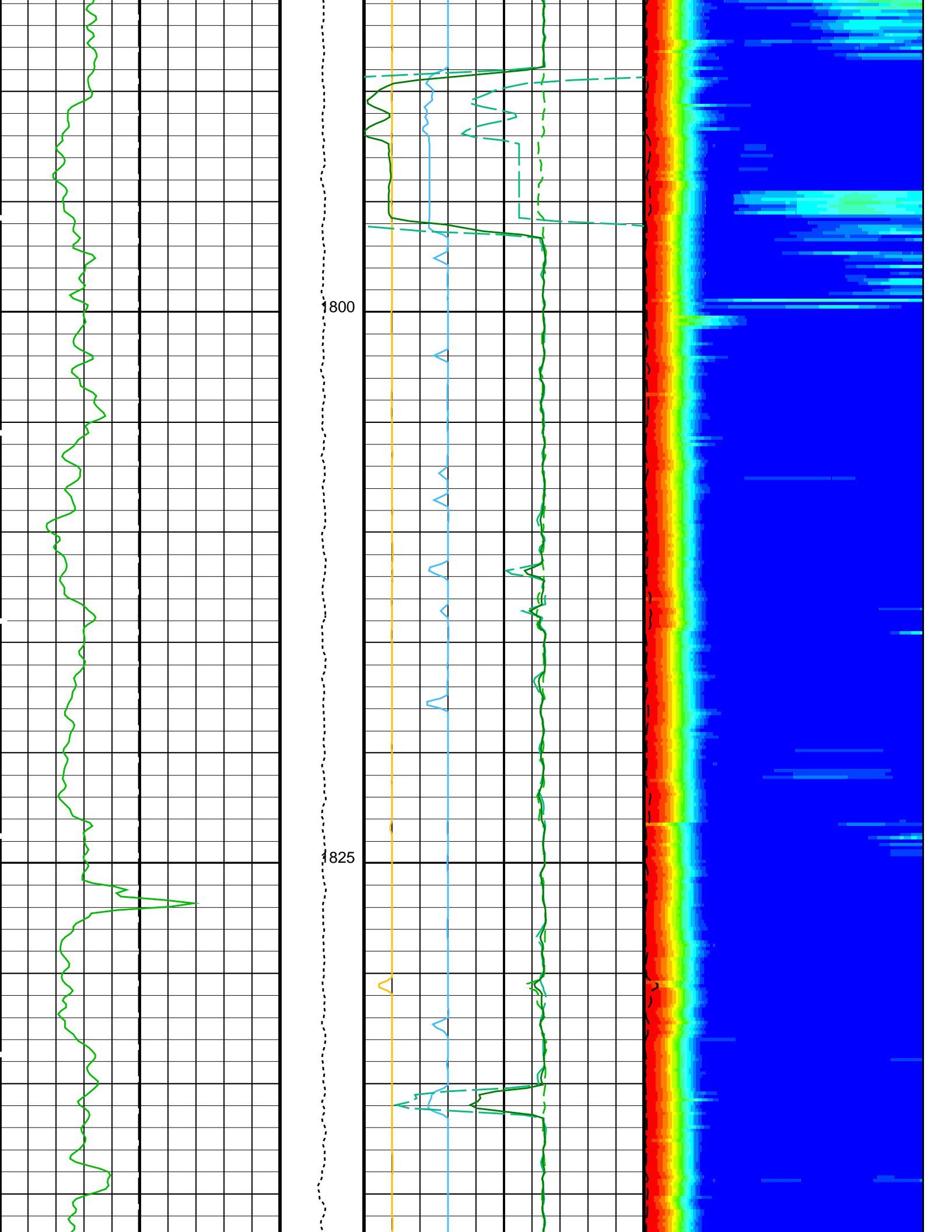
Time Mark Every 60 S

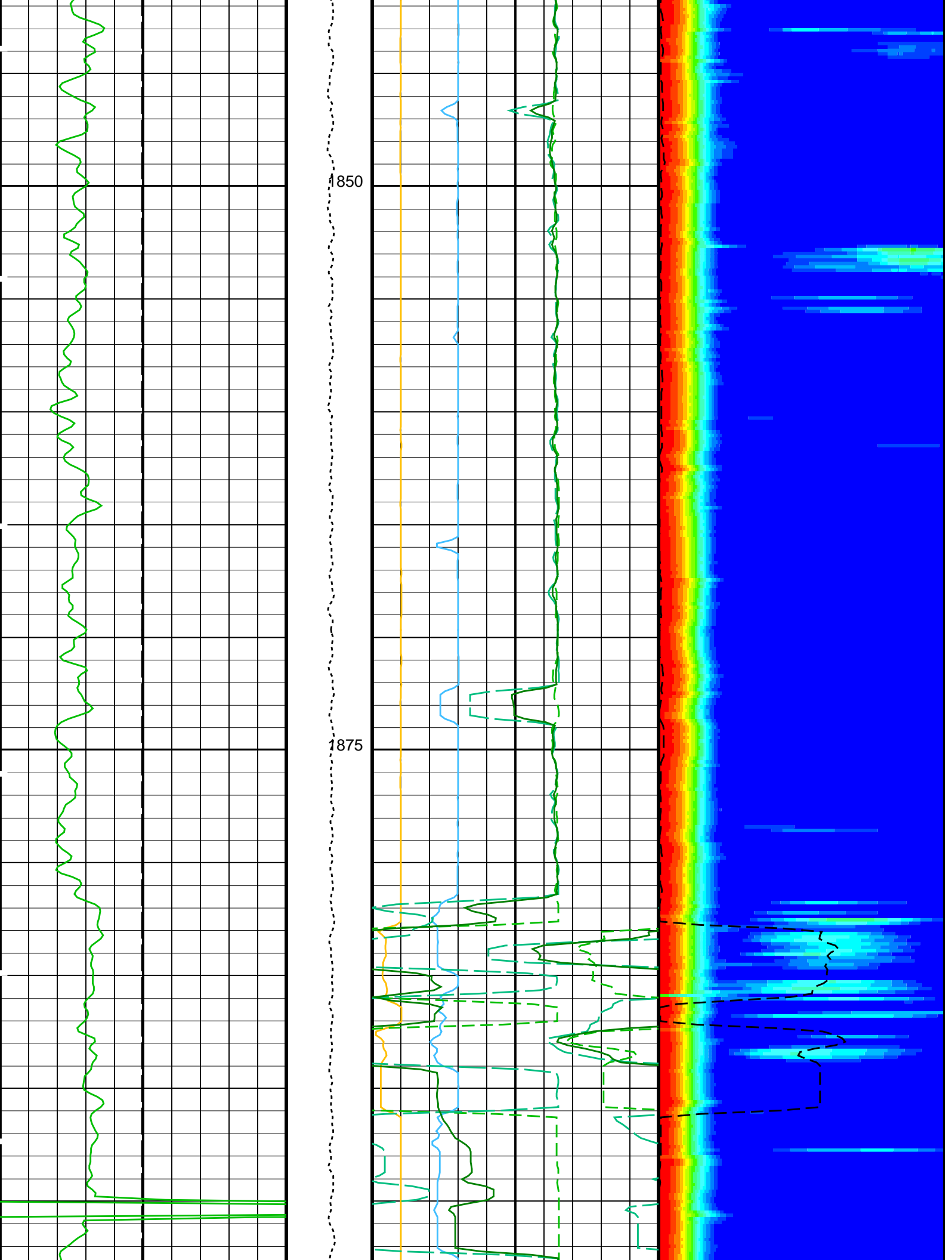


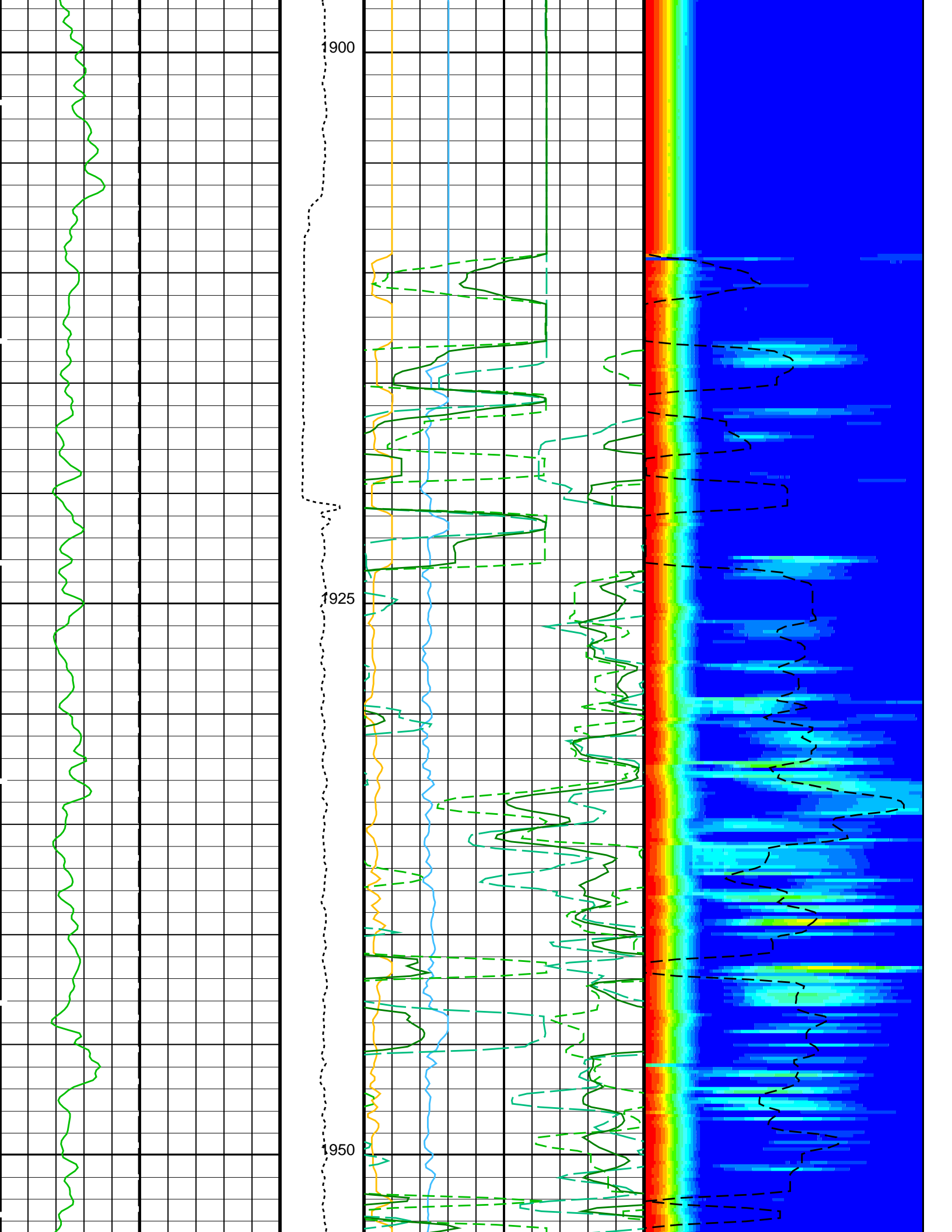


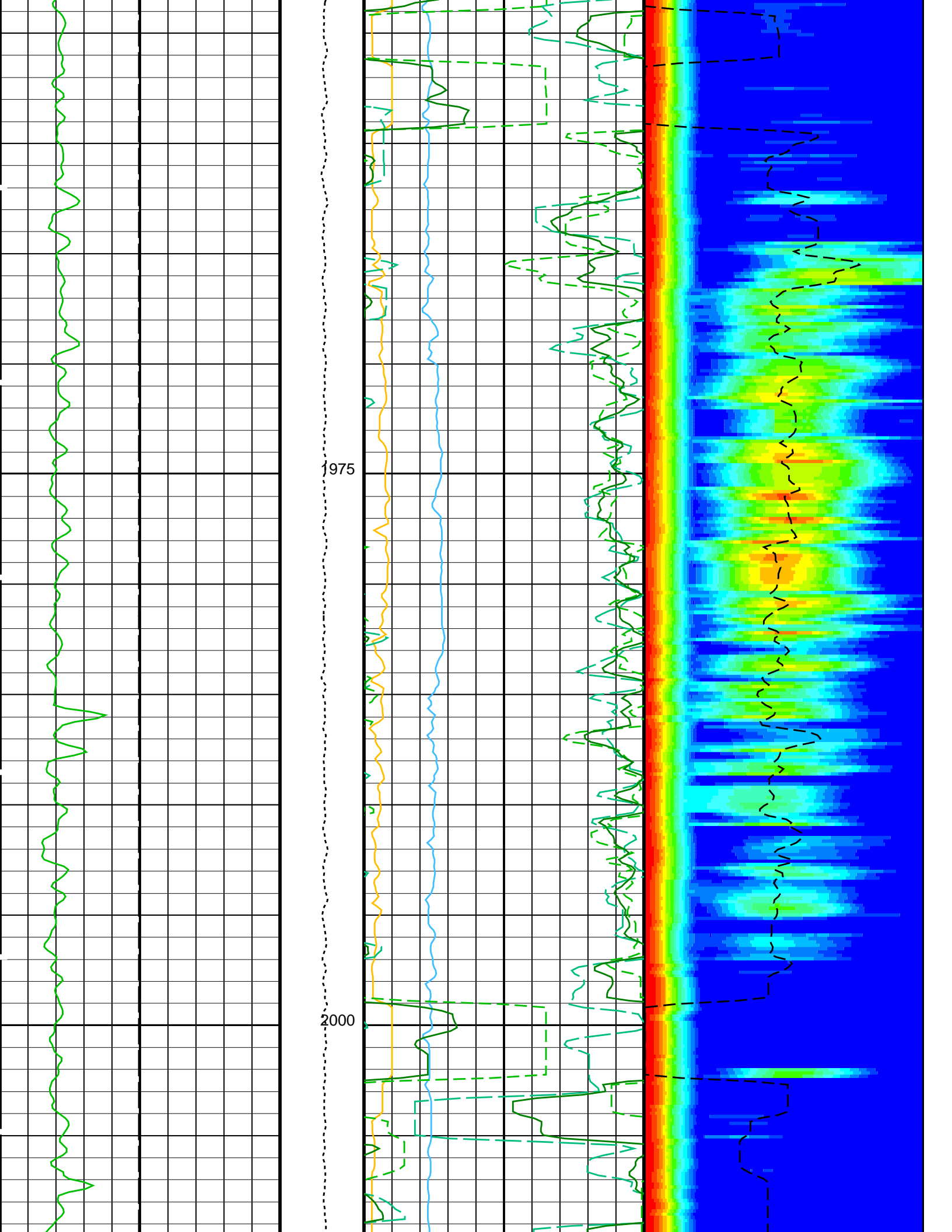


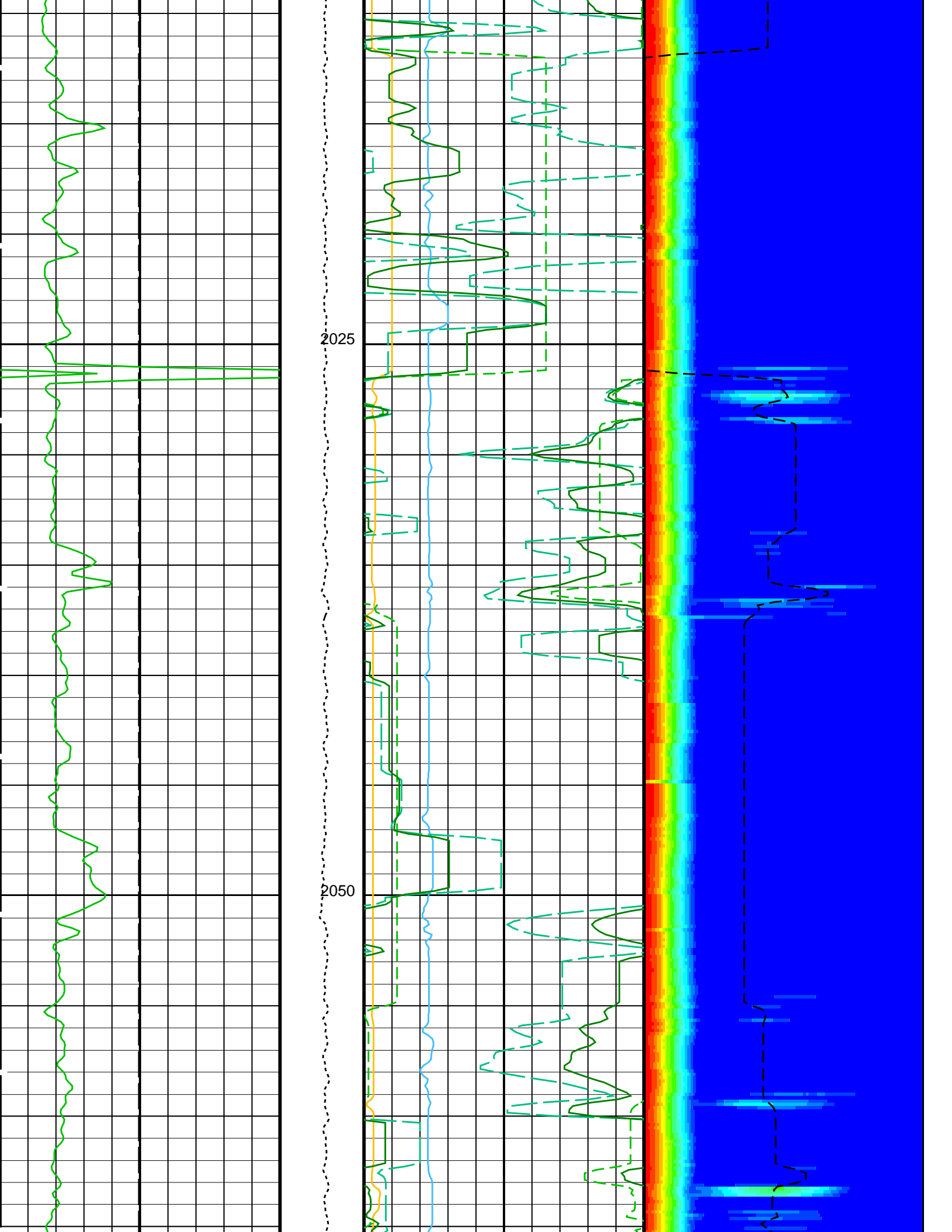


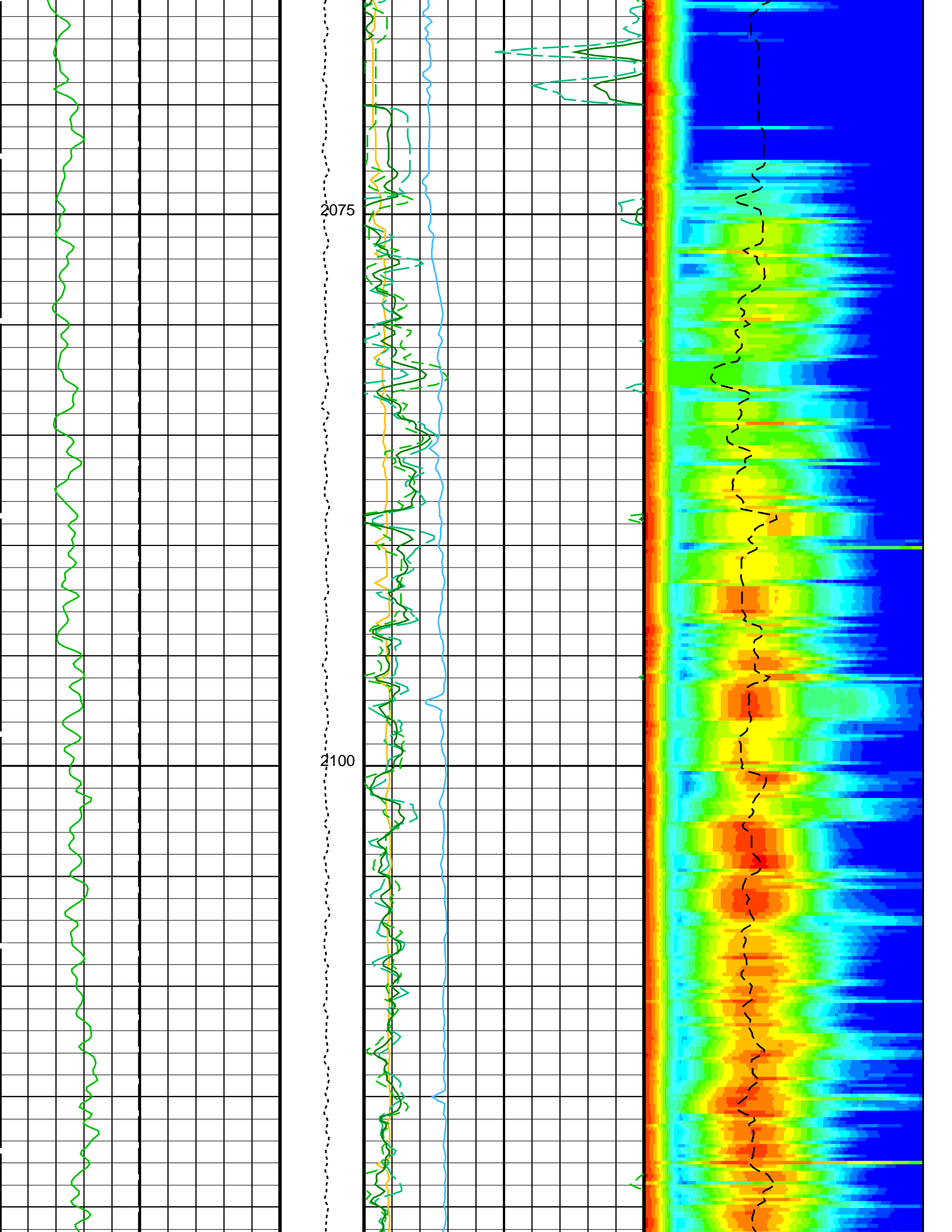




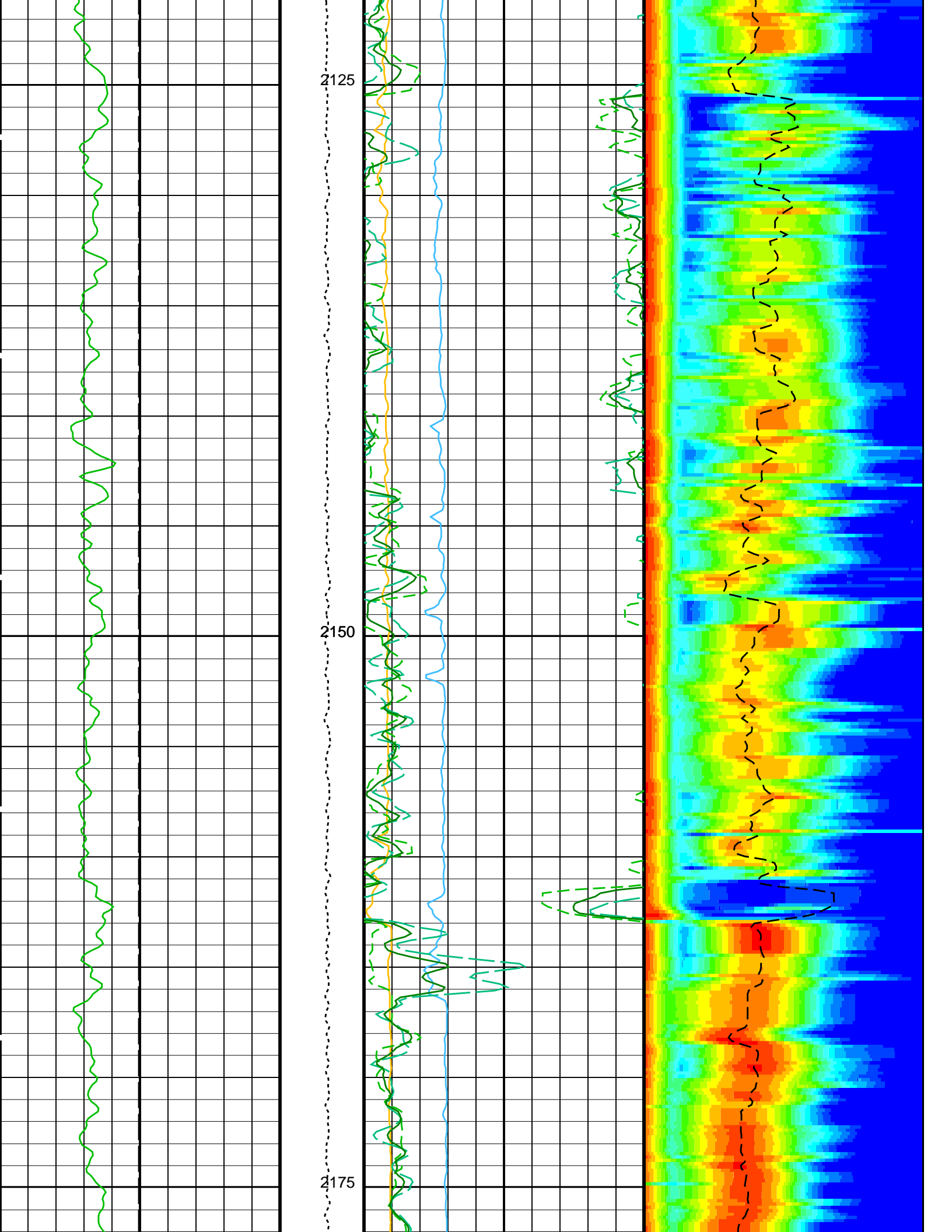


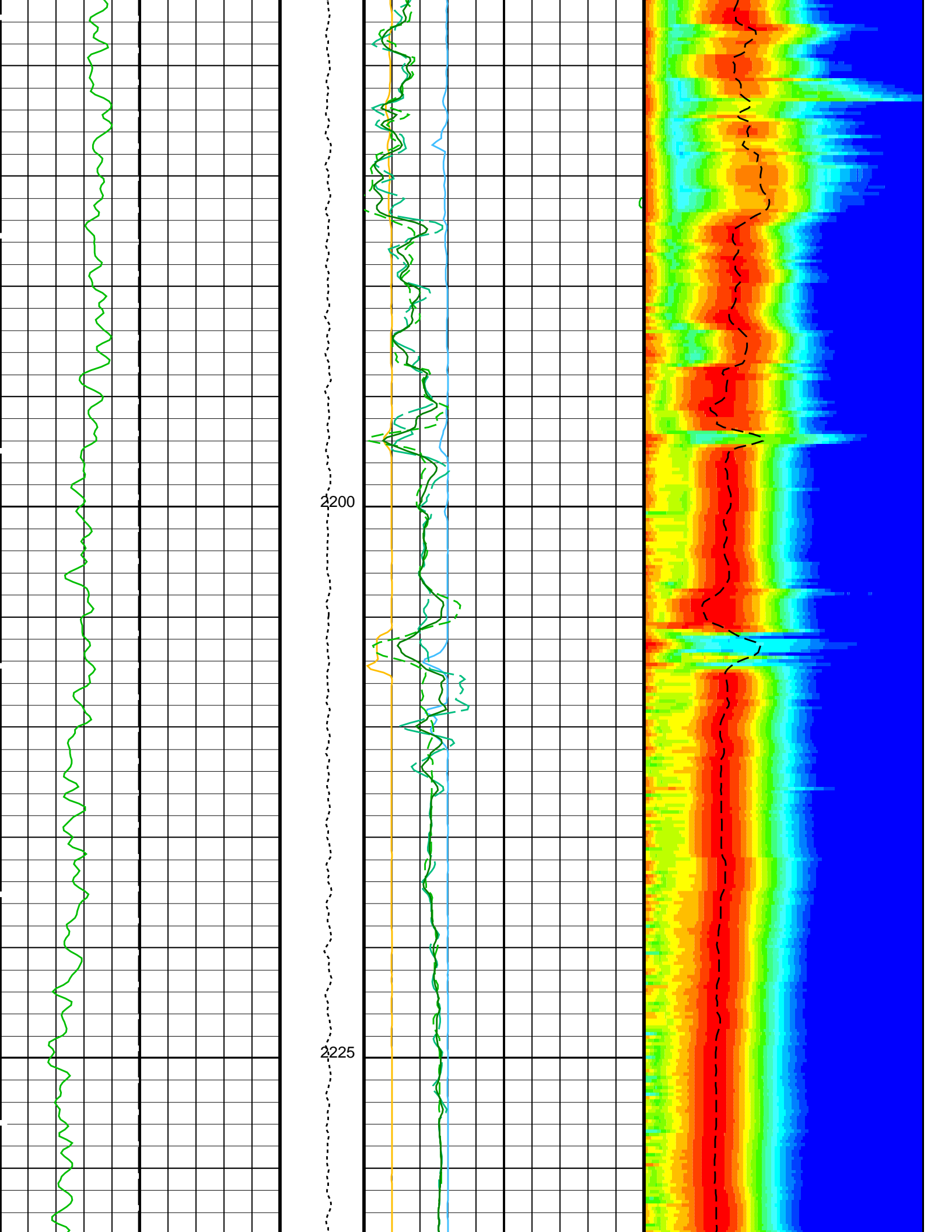


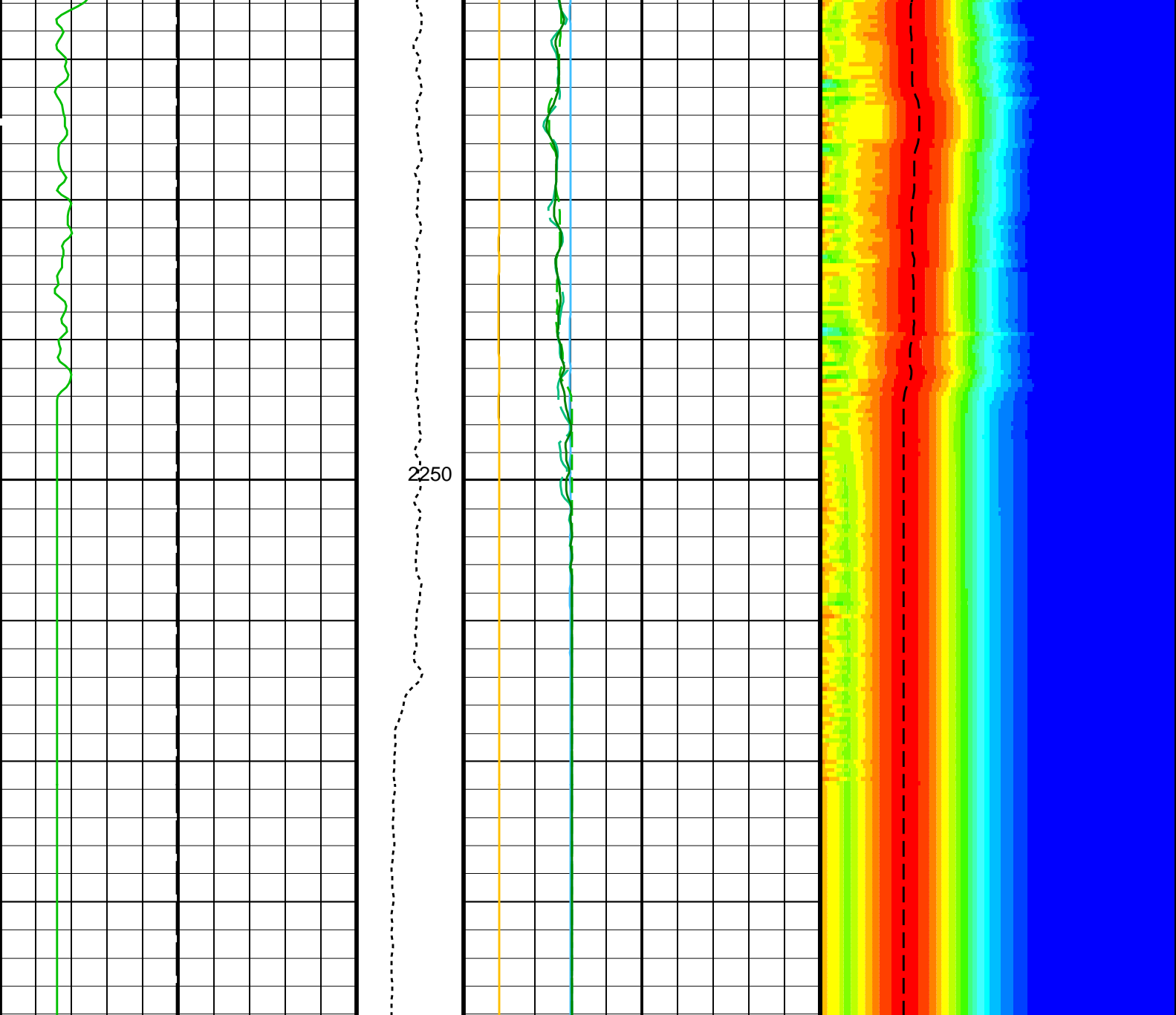












<div>Bit Size (BS) (IN)</div> <div>020</div>	<div>Tension (TENS) (LBF)</div> <div>05000</div>	<div>Peak Coherence / RA – Stoneley (CHR3) (-----)</div> <div>010</div>	<div>Delta-T Stoneley / RA (DT3R) (US/F)</div> <div>180780</div>
<div>Gamma Ray (GR_EDTC) (GAPI)</div> <div>0150</div>		<div>Peak Coherence / TA – Stoneley (CHT3) (-----)</div> <div>-28</div>	<div>MinAmplitudeMax</div> <div>Rec.Array Stoneley Slow Proj. CVDL (SPR3) (US/F)</div> <div>180780</div>
		<div>Delta-T Stoneley / RA (DT3R) (US/F)</div> <div>44040</div>	
		<div>Delta-T Stoneley / TA (DT3T) (US/F)</div> <div>44040</div>	
		<div>Delta-T Stoneley (DTST) (US/F)</div> <div>44040</div>	

PIP SUMMARY

Time Mark Every 60 S

Parameters

PLS Name	Description	Values
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DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM3	DSST Sonic Acquisition Mode 3 – Monopole Mode for Stoneley	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status – Monopole Stoneley	255	
SBO3	STC Search Band Offset – Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth – Monopole Stoneley	6000	US
SFC3	STC Formation Character – Monopole Stoneley	SELECTABLE	
SFM3	STC Filter – Monopole Stoneley	B.5–1.5K	
SLL3	STC Slowness Lower Limit – Monopole Stoneley	180	US/F
SST3	STC Slowness Step – Monopole Stoneley	4	US/F
SSW3	STC Source Waveform – Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	780	US/F
SWD3	STC Slowness Width – Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill – Monopole Stoneley	0	US
TLL3	STC Time Lower Limit – Monopole Stoneley	620	US
TST3	STC Time Step – Monopole Stoneley	200	US
TUL3	STC Time Upper Limit – Monopole Stoneley	12020	US
TWD3	STC Time Width – Monopole Stoneley	2000	US
TWI3	STC Integration Time Window – Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST\_STONELEY\_VDL\_COLOR    Vertical Scale: 1:200    Graphics File Created: 24-Dec-2023 17:00

## OP System Version: 19C0–187

DSST-B	19C0–187	HNGC-B	19C0–187
HNGS-BA	19C0–187	EDTC-B	19C0–187

## Input DLIS Files

DEFAULT	Flip_DSI_NGS_031PUP	PRODUCER	24-Dec-2023 16:59	2269.1 M	1645.9 M
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## Output DLIS Files

DEFAULT	DSI_NGS_032PUP	FN:25	PRODUCER	24-Dec-2023 17:00
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**Schlumberger**

**Repeat Pass**

Input DLIS Files

DEFAULT DSI\_NGS\_021LUP FN:17 PRODUCER 23-Dec-2023 19:12 2260.9 M 2161.0 M

Output DLIS Files

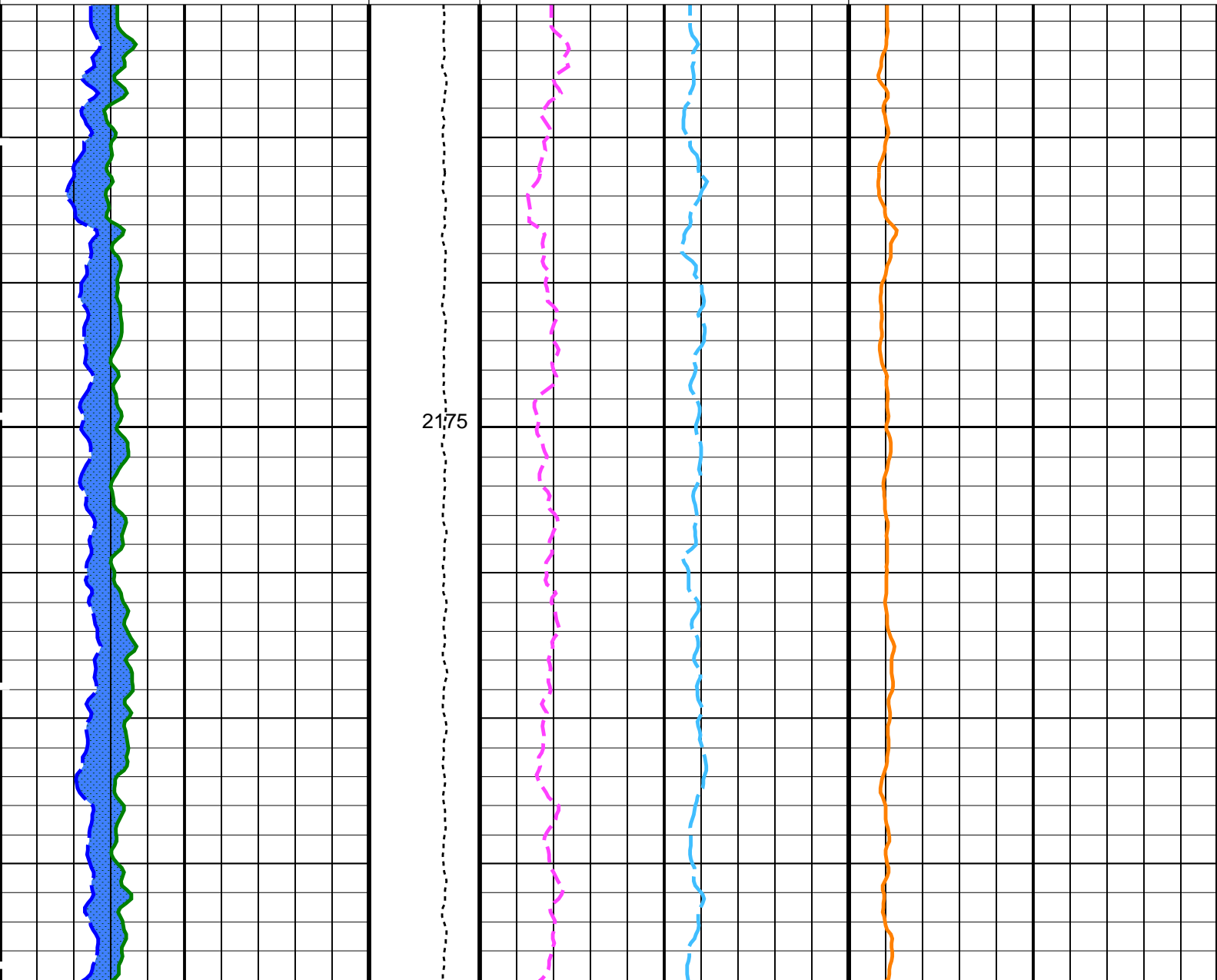
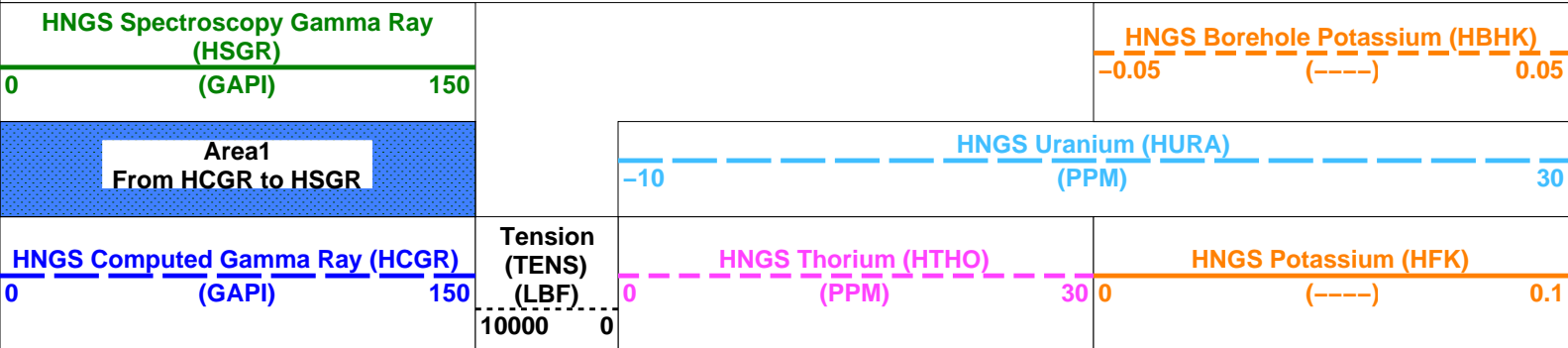
DEFAULT DSI\_NGS\_033PUP FN:26 PRODUCER 24-Dec-2023 17:02 2260.9 M 2160.4 M

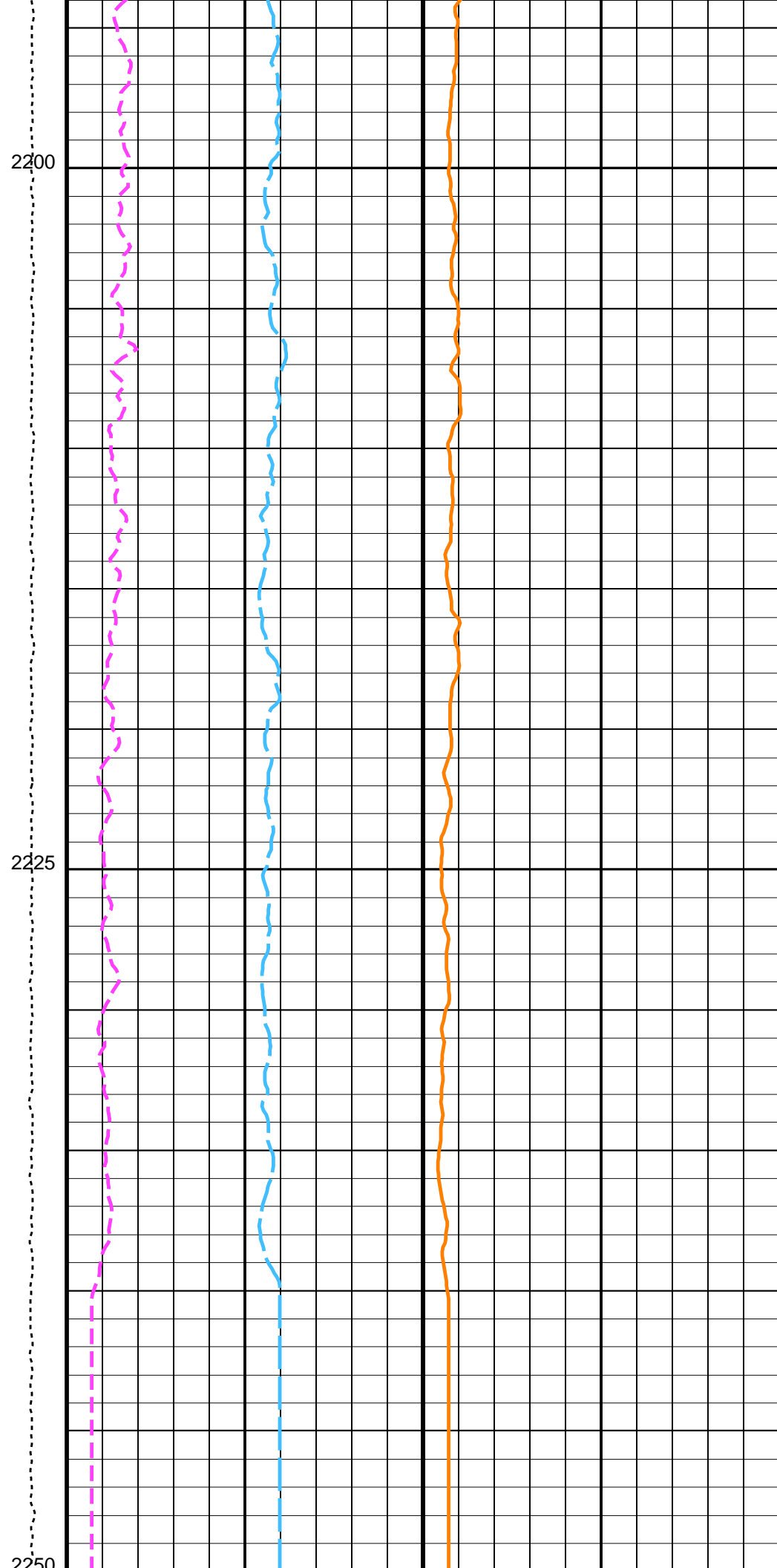
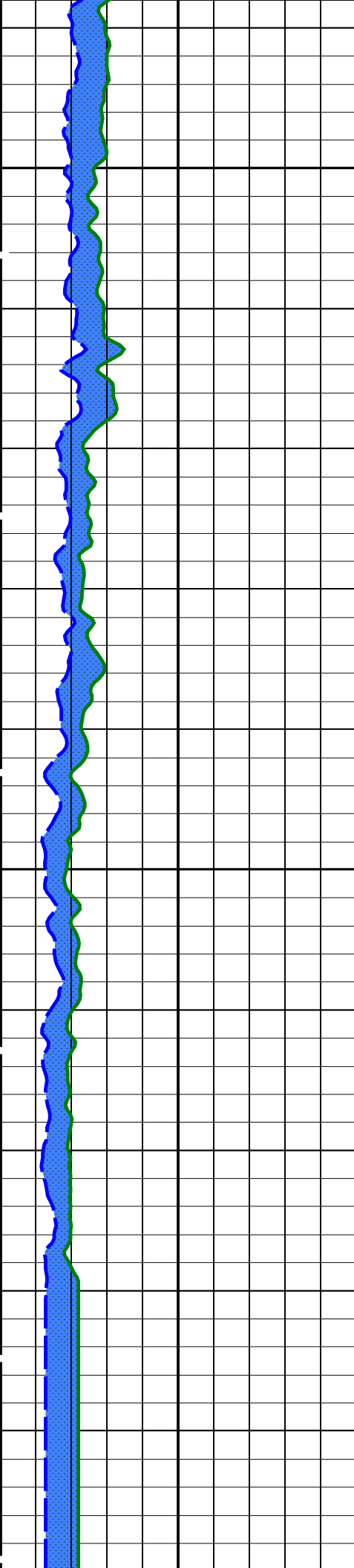
OP System Version: 19C0-187

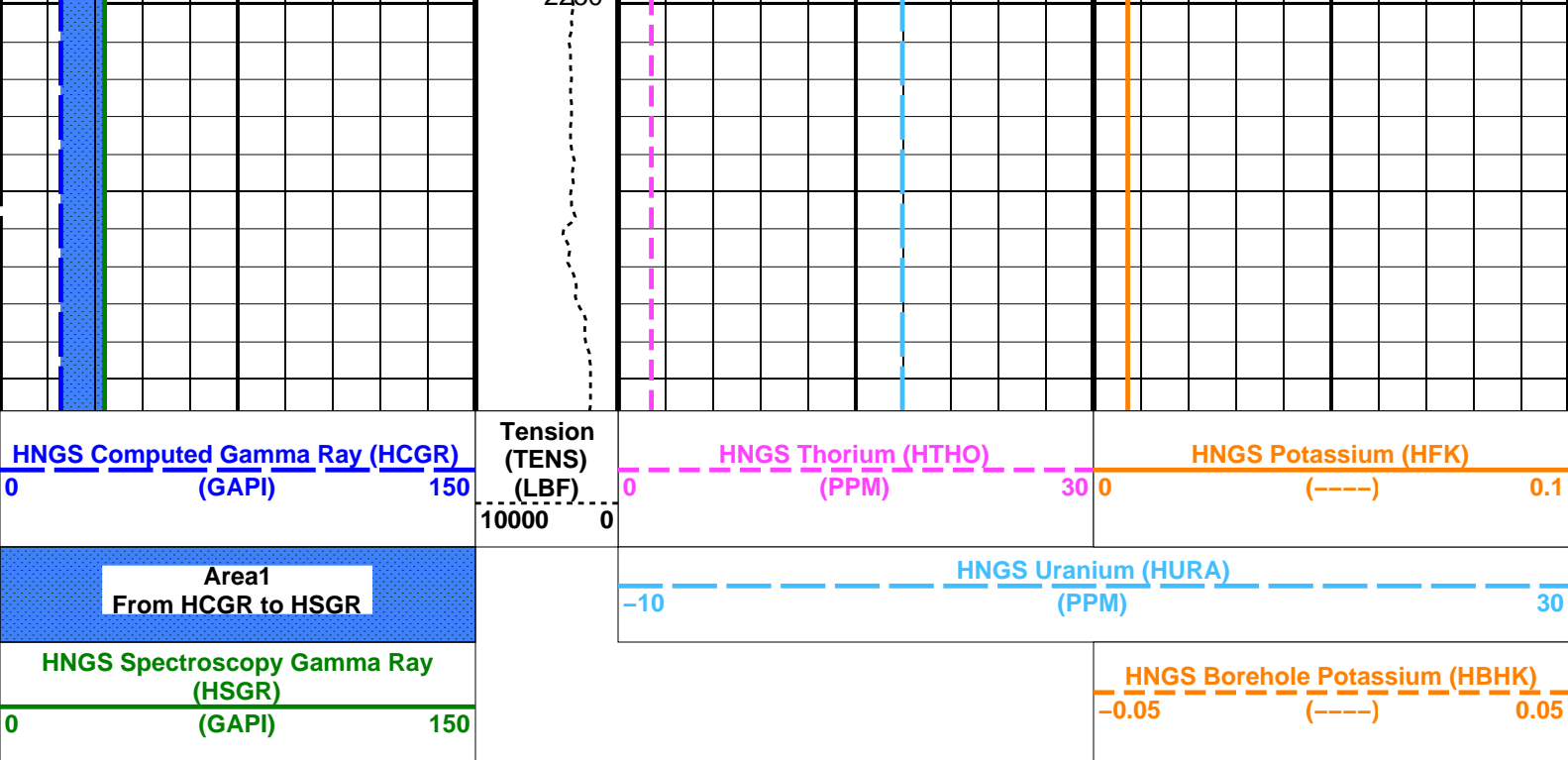
DSST-B 19C0-187 HNGC-B 19C0-187  
HNGS-BA 19C0-187 EDTC-B 19C0-187

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
BHS	DSST-B: Dipole Shear Imager - B		
GCSE	Borehole Status	OPEN	
	Generalized Caliper Selection	BS	
	HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00393062	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.997162	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.976799	
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	9.00	LB/G
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields      Vertical Scale: 1:200      Graphics File Created: 24-Dec-2023 17:02

OP System Version: 19C0-187

DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

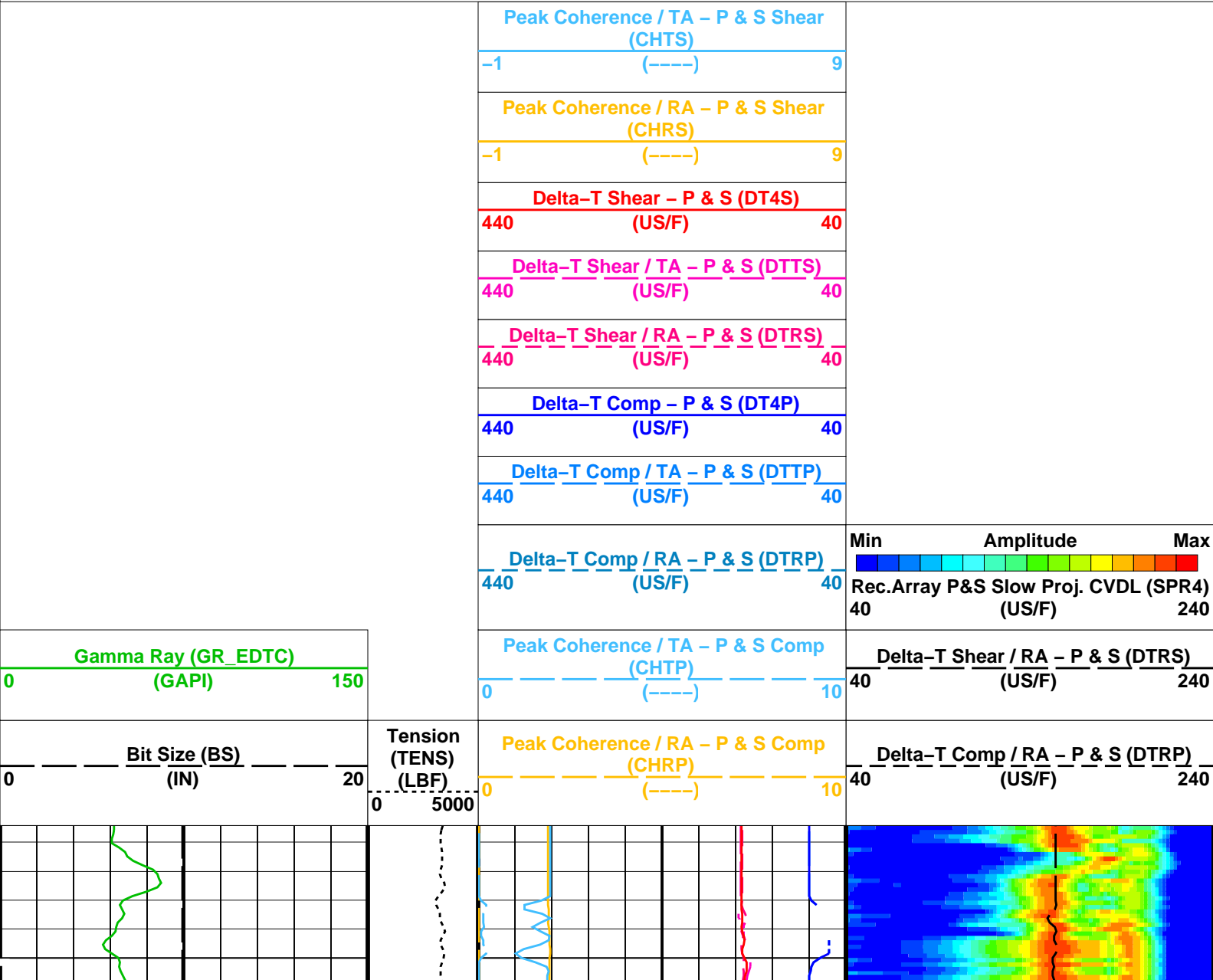
Input DLIS Files					
DEFAULT	DSI_NGS_021LUP	FN:17	PRODUCER	23-Dec-2023 19:12	2260.9 M 2161.0 M
Output DLIS Files					
DEFAULT	DSI_NGS_033PUP	FN:26	PRODUCER	24-Dec-2023 17:02	

Company: International Ocean Discovery Program	Well: Expedition 401, Site U1609A
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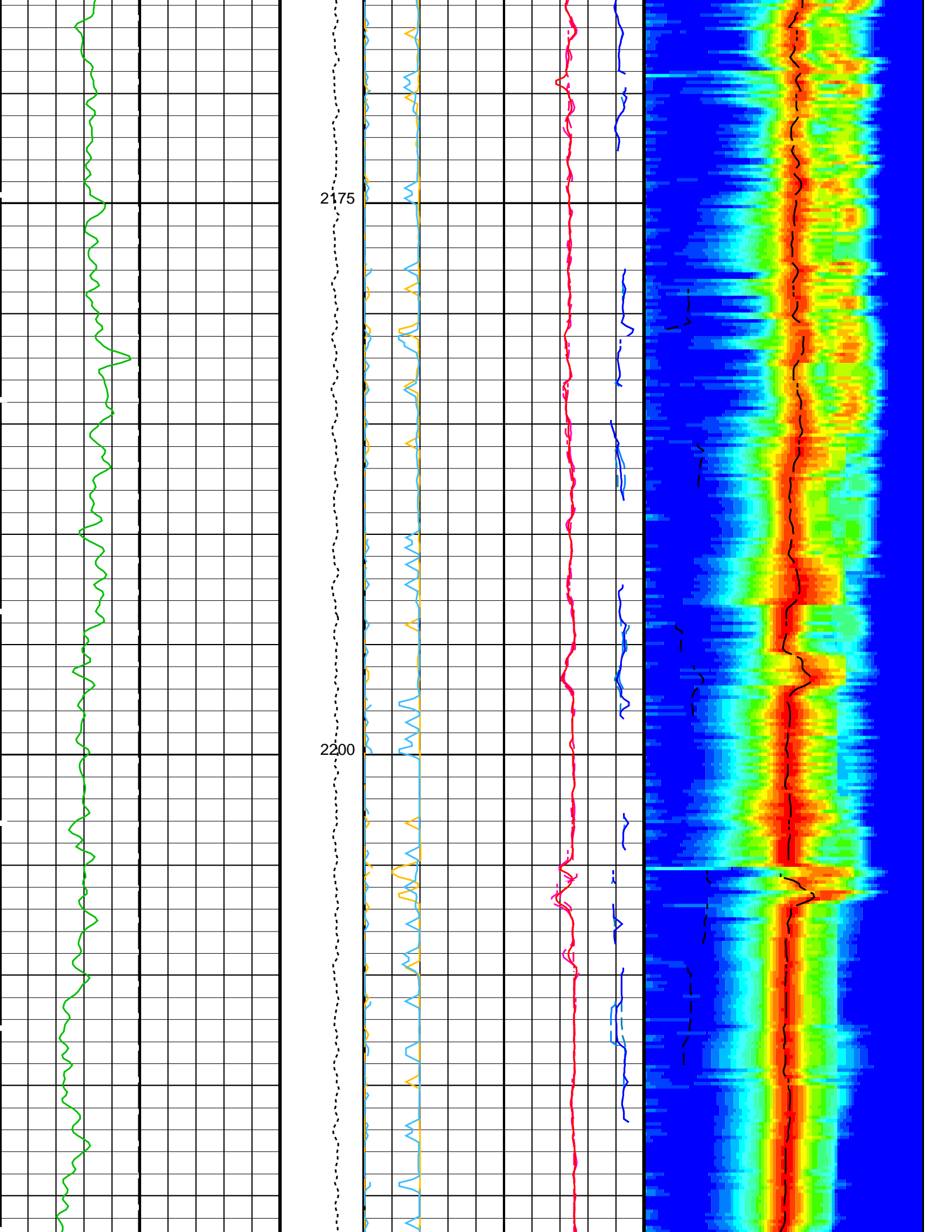
Input DLIS Files					
DEFAULT	DSI_NGS_021LUP	FN:17	PRODUCER	23-Dec-2023 19:12	2260.9 M 2161.0 M
Output DLIS Files					
DEFAULT	DSI_NGS_033PUP	FN:26	PRODUCER	24-Dec-2023 17:02	2260.9 M 2160.4 M

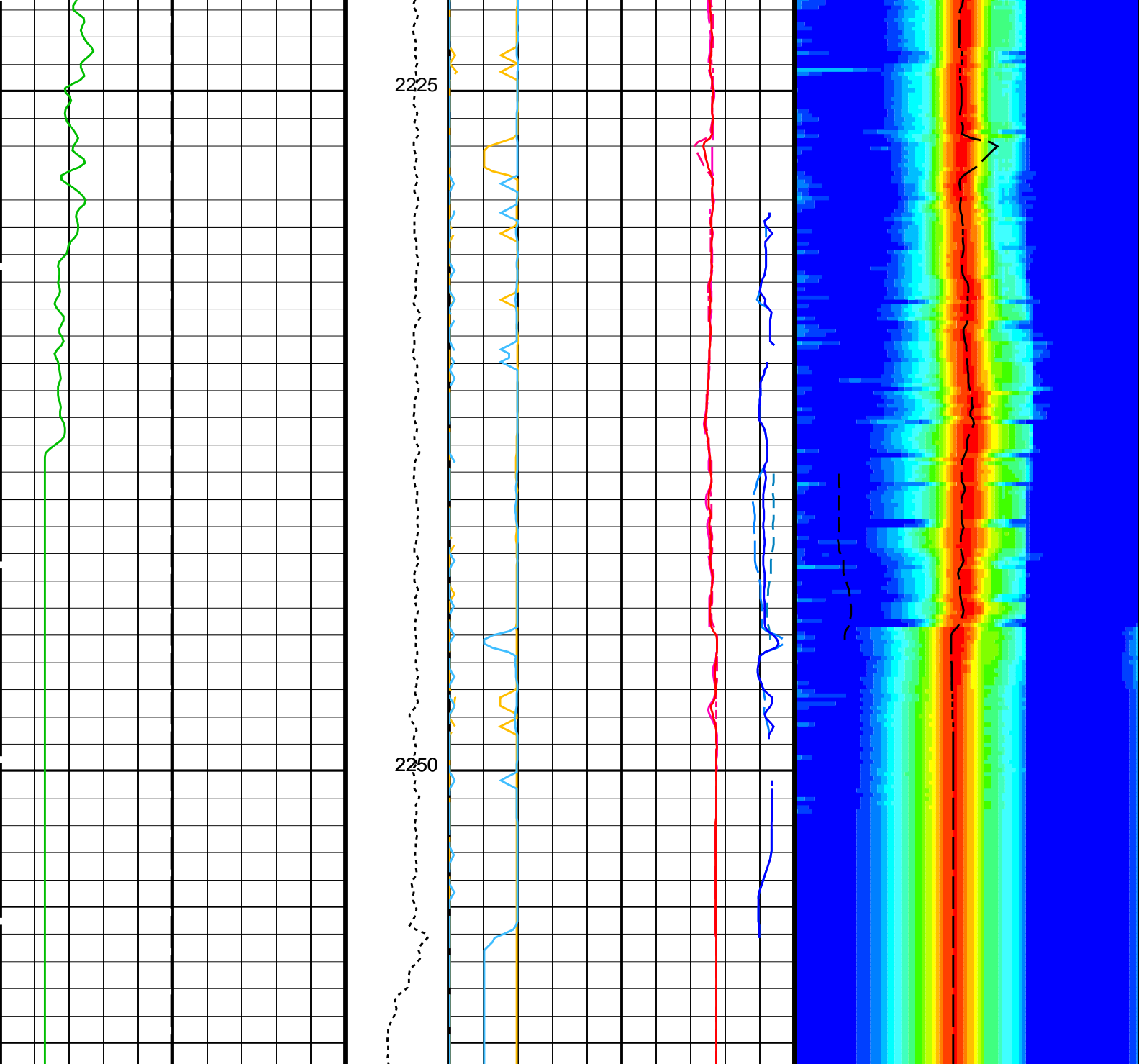
OP System Version: 19C0-187					
DSST-B	19C0-187	HNGC-B	19C0-187		
HNGS-BA	19C0-187	EDTC-B	19C0-187		

PIP SUMMARY	
 Time Mark Every 60 S	









<div>Bit Size (BS) (IN)</div> <div>020</div>	<div>Tension (TENS) (LBF)</div> <div>05000</div>	<div>Peak Coherence / RA - P &amp; S Comp (CHRP)</div> <div>010</div> <div>(-----)</div>	<div>Delta-T Comp / RA - P &amp; S (DTRP)</div> <div>40240</div> <div>(US/F)</div>
<div>Gamma Ray (GR_EDTC) (GAPI)</div> <div>0150</div>		<div>Peak Coherence / TA - P &amp; S Comp (CHTP)</div> <div>010</div> <div>(-----)</div>	<div>Delta-T Shear / RA - P &amp; S (DTRS)</div> <div>40240</div> <div>(US/F)</div>
		<div>Delta-T Comp / RA - P &amp; S (DTRP)</div> <div>44040</div> <div>(US/F)</div>	<div>MinAmplitudeMax</div> <div>Rec.Array P&amp;S Slow Proj. CVDL (SPR4)</div> <div>40240</div> <div>(US/F)</div>
		<div>Delta-T Comp / TA - P &amp; S (DTTP)</div> <div>44040</div> <div>(US/F)</div>	
		<div>Delta-T Comp - P &amp; S (DT4P)</div> <div>44040</div> <div>(US/F)</div>	
		<div>Delta-T Shear / RA - P &amp; S (DTRS)</div> <div>44040</div> <div>(US/F)</div>	

Delta-T Shear / TA – P & S (DTTS)		
440	(US/F)	40
Delta-T Shear – P & S (DT4S)		
440	(US/F)	40
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(----	9
Peak Coherence / TA – P & S Shear (CHTS)		
-1	(----	9

## PIP SUMMARY

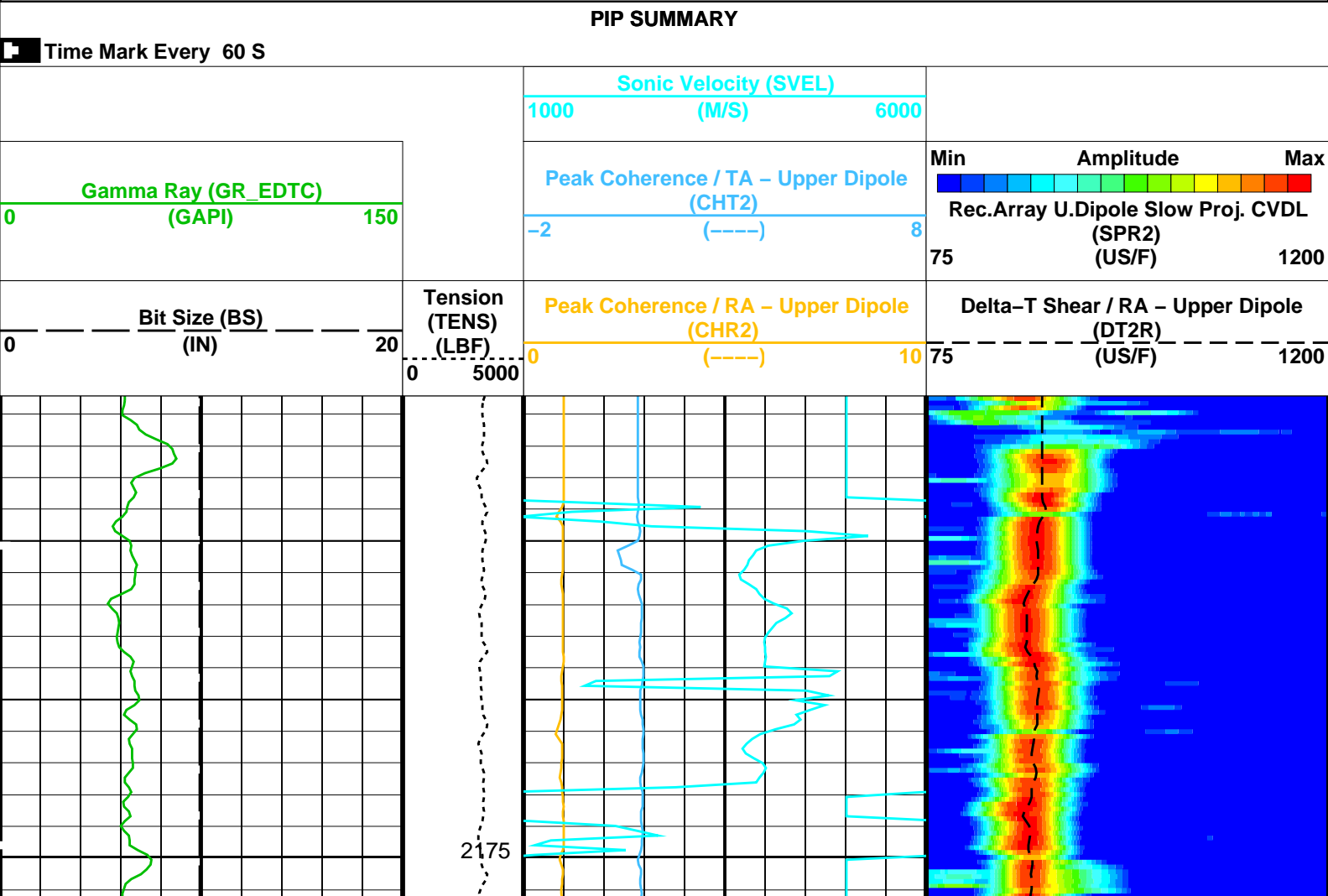
Time Mark Every 60 S

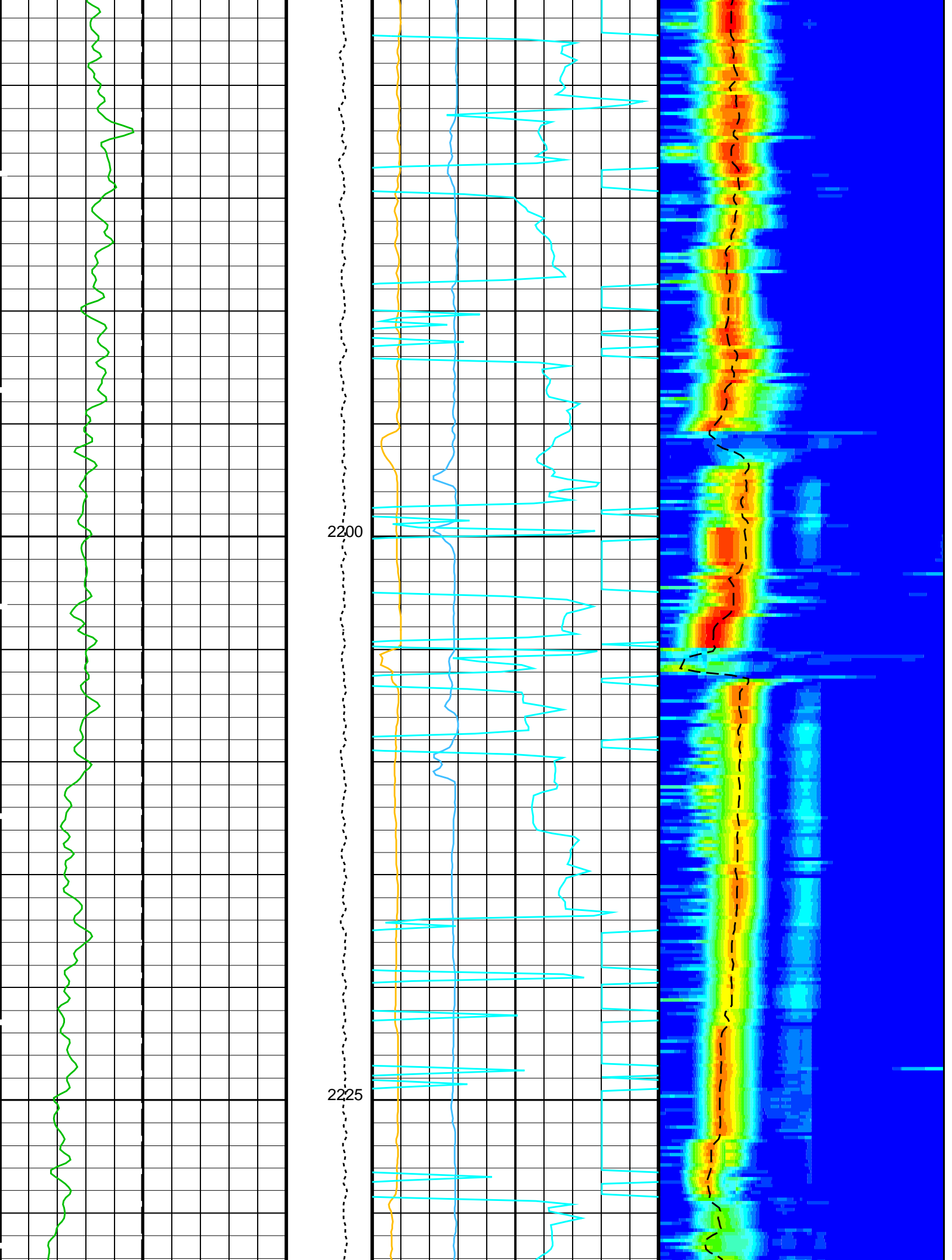
## Parameters

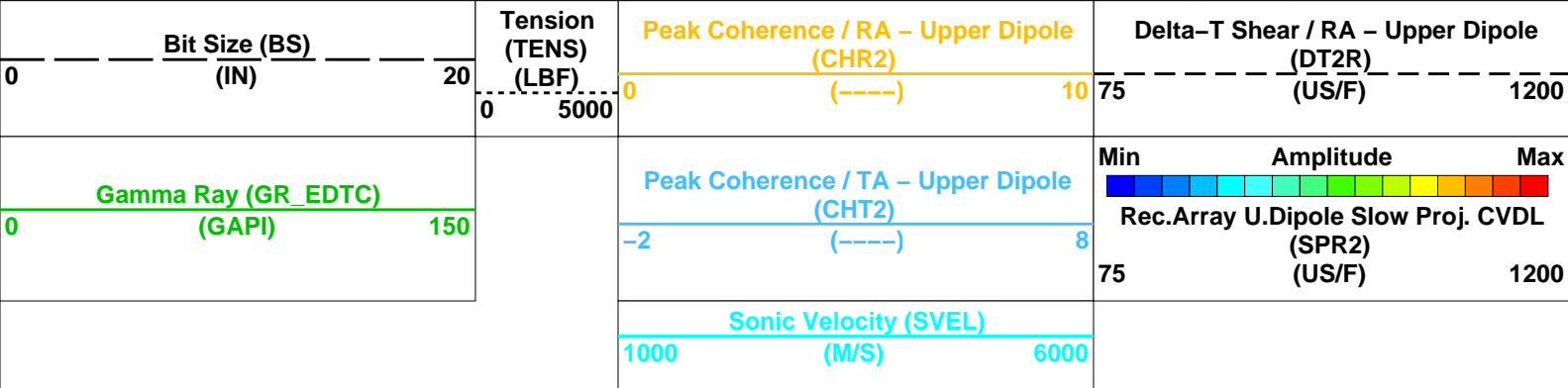
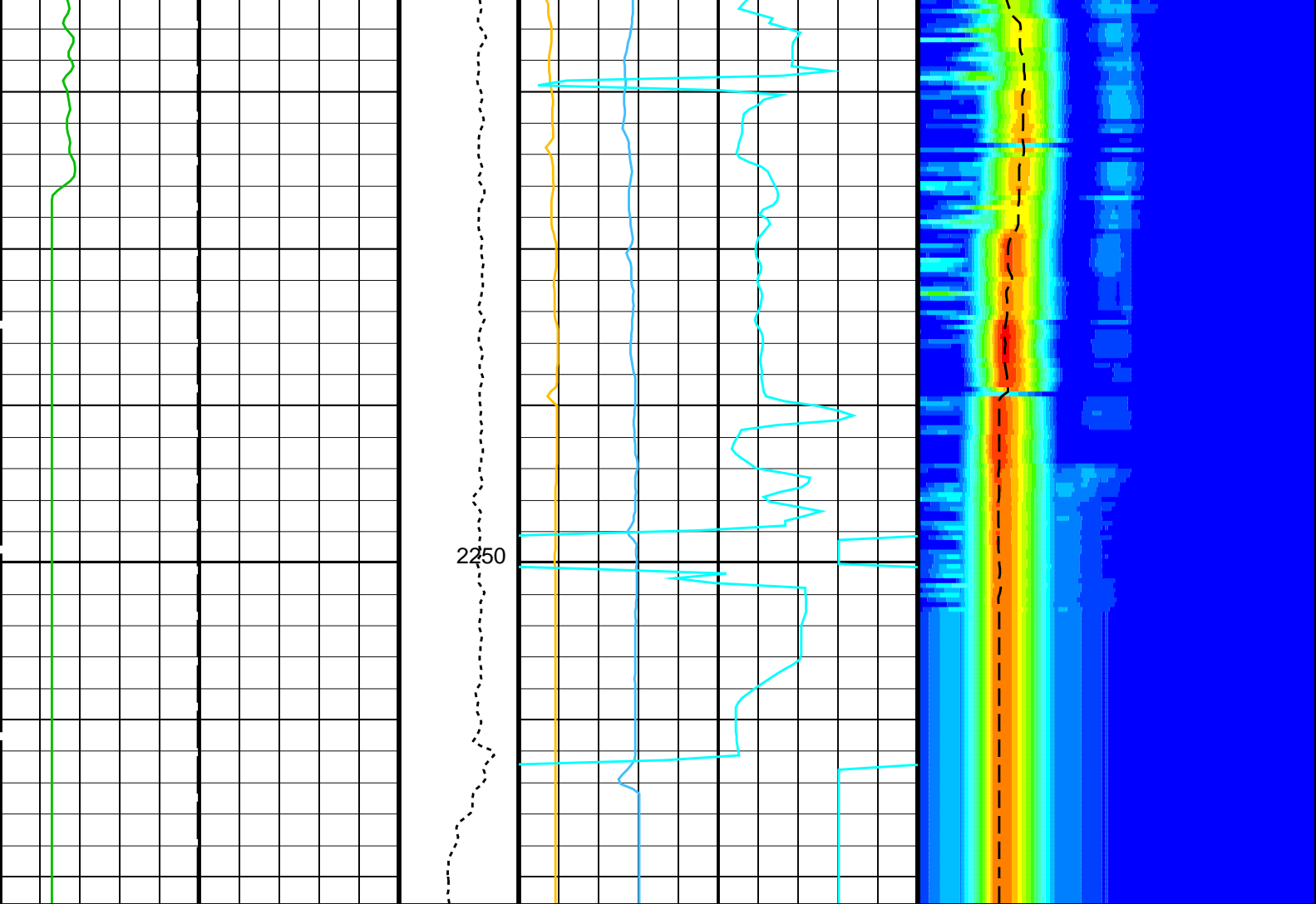
DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	90	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta-T Fluid	212	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP	
LFC	Label Formation Character – Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	MFD_ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–12K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	130	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
HNGB-BA: Hostile Natural Gamma Ray Sonde			
BHS	Borehole Status	OPEN	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
System and Miscellaneous			

BS DO PP	Bit Size Depth Offset for Playback Playback Processing	9.875 IN 0.0 M NORMAL
Format: DSST_P_S_VDL_COLOR		Vertical Scale: 1:200
Graphics File Created: 24-Dec-2023 17:02		
OP System Version: 19C0-187		
DSST-B HNGS-BA	19C0-187 19C0-187	HNGC-B EDTC-B
		19C0-187 19C0-187
Input DLIS Files		
DEFAULT	DSI_NGS_021LUP	FN:17 PRODUCER 23-Dec-2023 19:12 2260.9 M 2161.0 M
Output DLIS Files		
DEFAULT	DSI_NGS_033PUP	FN:26 PRODUCER 24-Dec-2023 17:02

Input DLIS Files		
DEFAULT	DSI_NGS_021LUP	FN:17 PRODUCER 23-Dec-2023 19:12 2260.9 M 2161.0 M
Output DLIS Files		
DEFAULT	DSI_NGS_033PUP	FN:26 PRODUCER 24-Dec-2023 17:02 2260.9 M 2160.4 M
OP System Version: 19C0-187		
DSST-B HNGS-BA	19C0-187 19C0-187	HNGC-B EDTC-B
		19C0-187 19C0-187







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager – B		
DDE2	Digitizing Delay 2	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	40 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1000 US/F
DSI2	Digitizer Sample Interval 2	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DWC2	Digitizer Word Count 2	512
DWCX	Digitizer Word Count X	512
NWI2	Number Waveform Items 2	8
NWIX	Number Waveform Items X	0
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN

RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	LFD_ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B.3–1.5K	
SLL2	STC Slowness Lower Limit – Upper Dipole	40	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit – Upper Dipole	1400	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TST2	STC Time Step – Upper Dipole	200	US
TUL2	STC Time Upper Limit – Upper Dipole	20440	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST\_UPPER\_DIPOLE\_VDL\_COLOR

Vertical Scale: 1:200


Graphics File Created: 24-Dec-2023 17:02

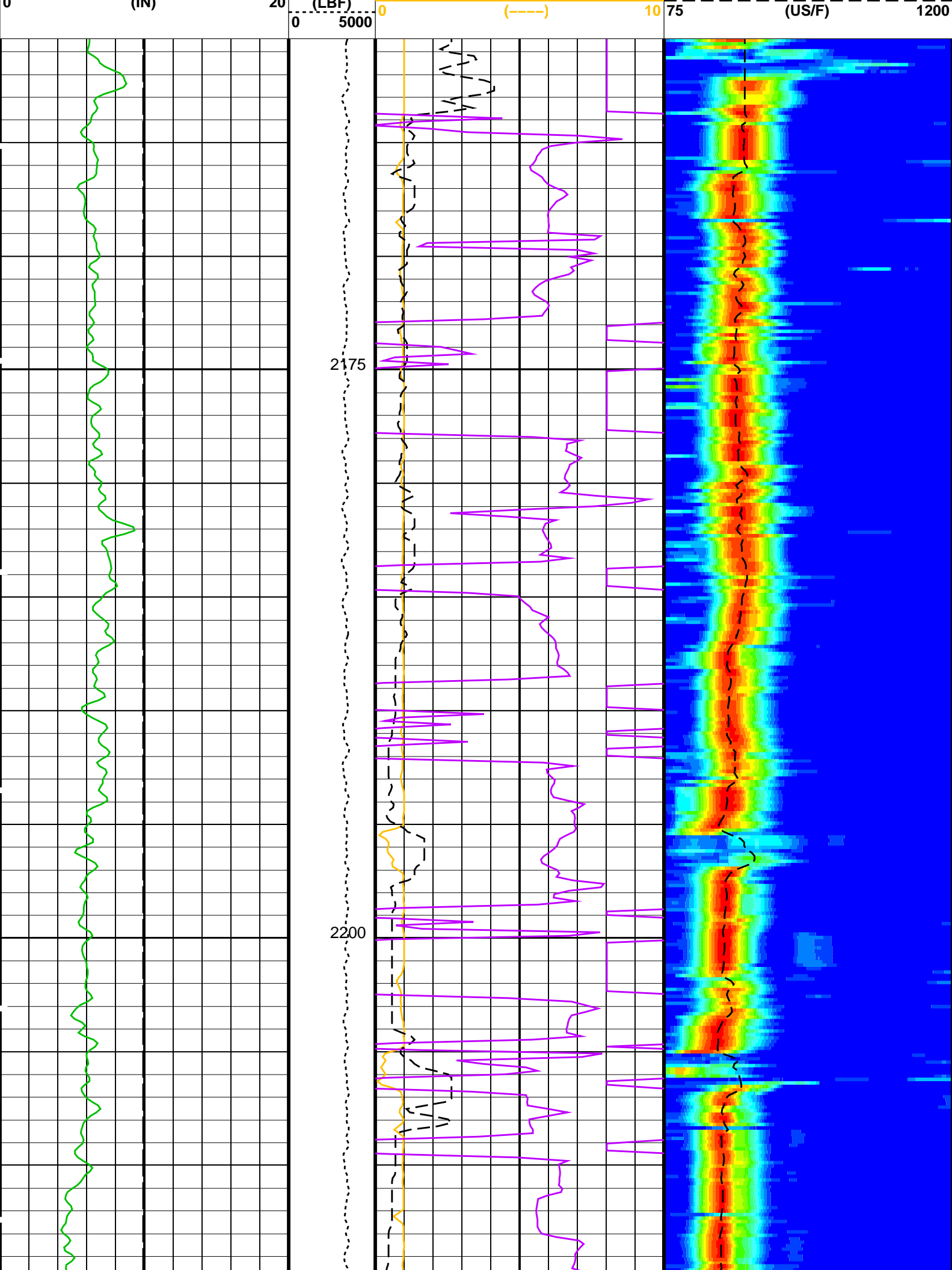
OP System Version: 19C0–187			
DSST–B	19C0–187	HNGC–B	19C0–187
HNGS–BA	19C0–187	EDTC–B	19C0–187

Input DLIS Files						
DEFAULT	DSI_NGS_021LUP	FN:17	PRODUCER	23-Dec-2023 19:12	2260.9 M	2161.0 M
Output DLIS Files						
DEFAULT	DSI_NGS_033PUP	FN:26	PRODUCER	24-Dec-2023 17:02		

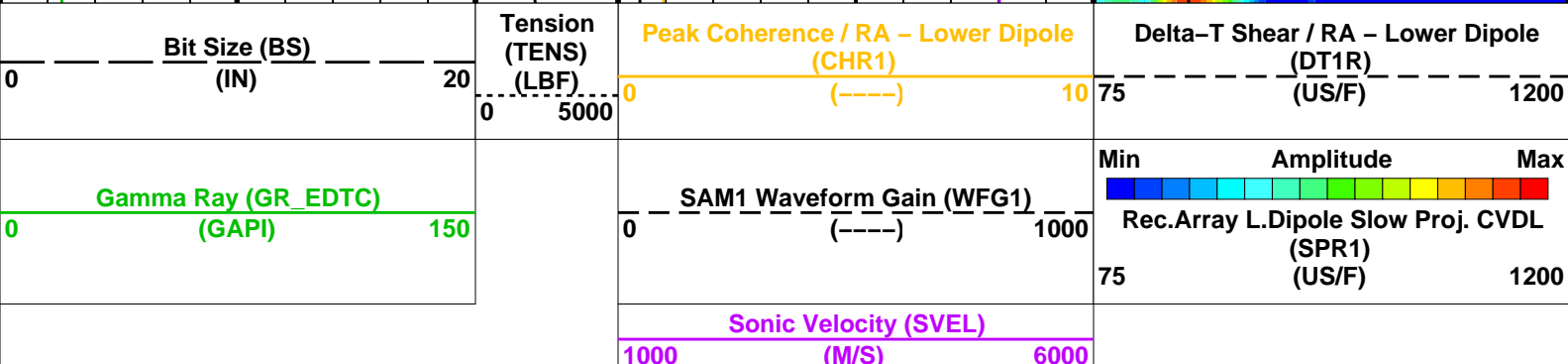
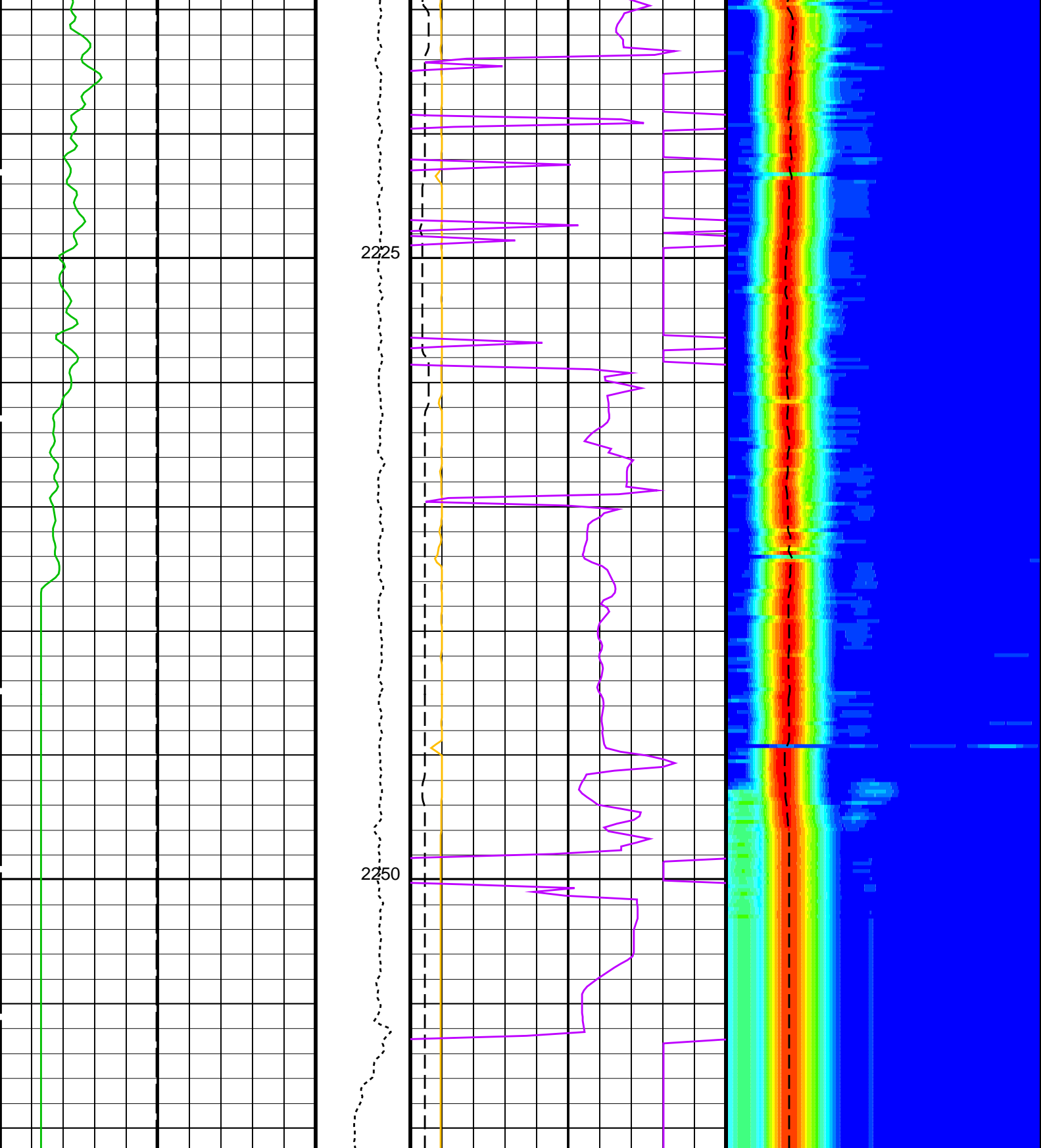
Input DLIS Files						
DEFAULT	DSI_NGS_021LUP	FN:17	PRODUCER	23-Dec-2023 19:12	2260.9 M	2161.0 M
Output DLIS Files						
DEFAULT	DSI_NGS_033PUP	FN:26	PRODUCER	24-Dec-2023 17:02	2260.9 M	2160.4 M
OP System Version: 19C0–187						
DSST–B	19C0–187	HNGC–B	19C0–187			
HNGS–BA	19C0–187	EDTC–B	19C0–187			

PIP SUMMARY	
	Time Mark Every 60 S

		Sonic Velocity (SVEL)				
		1000	6000			
		(M/S)				
Gamma Ray (GR_EDTC)		SAM1 Waveform Gain (WFG1)		Min	Amplitude	Max
						
0		0		Rec.Array L.Dipole Slow Proj. CVDL		
				(SPR1)		
(GAPI)		(----		(US/F)		
				75		
150		1000		1200		
Bit Size (BS)		Tension (TENS)	Delta-T Shear / RA – Lower Dipole			
(BS)		(TENS)	(DT1R)			







Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager – B		
DDE1	Digitizing Delay 1	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	40 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1000 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DWC1	Digitizer Word Count 1	512
DWCX	Digitizer Word Count X	512
LTXG	Lower Dipole Transmitter Geometry	156 IN
NW11	Number Waveform Items 1	8
NWIX	Number Waveform Items X	0
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF
SAS1	STC Sonic Array Status – Lower Dipole	255
SBO1	STC Search Band Offset – Lower Dipole	3000 US
SBW1	STC Search Bandwidth – Lower Dipole	8000 US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE
SFM1	STC Filter – Lower Dipole	B.3–1.5K
SLL1	STC Slowness Lower Limit – Lower Dipole	40 US/F
SST1	STC Slowness Step – Lower Dipole	4 US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1
SUL1	STC Slowness Upper Limit – Lower Dipole	1400 US/F
SWD1	STC Slowness Width – Lower Dipole	40 US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0 US
TLL1	STC Time Lower Limit – Lower Dipole	600 US
TST1	STC Time Step – Lower Dipole	200 US
TUL1	STC Time Upper Limit – Lower Dipole	20440 US
TWD1	STC Time Width – Lower Dipole	2000 US
TWI1	STC Integration Time Window – Lower Dipole	1600 US
TWSX	Transmitter Waveform Select X	0
WFM1	Waveform Mode 1	W1
System and Miscellaneous		
BS	Bit Size	9.875 IN
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL

Format: DSST\_LOWER\_DIPOLE\_VDL\_COLOR Vertical Scale: 1:200 Graphics File Created: 24-Dec-2023 17:02

## OP System Version: 19C0–187

DSST-B	19C0–187	HNGC-B	19C0–187
HNGS-BA	19C0–187	EDTC-B	19C0–187

## Input DLIS Files

DEFAULT	DSI_NGS_021LUP	FN:17	PRODUCER	23-Dec-2023 19:12	2260.9 M	2161.0 M
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## Output DLIS Files

DEFAULT	DSI_NGS_033PUP	FN:26	PRODUCER	24-Dec-2023 17:02
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## Input DLIS Files

DEFAULT	DSI_NGS_021LUP	FN:17	PRODUCER	23-Dec-2023 19:12	2260.9 M	2161.0 M
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Output DLIS Files

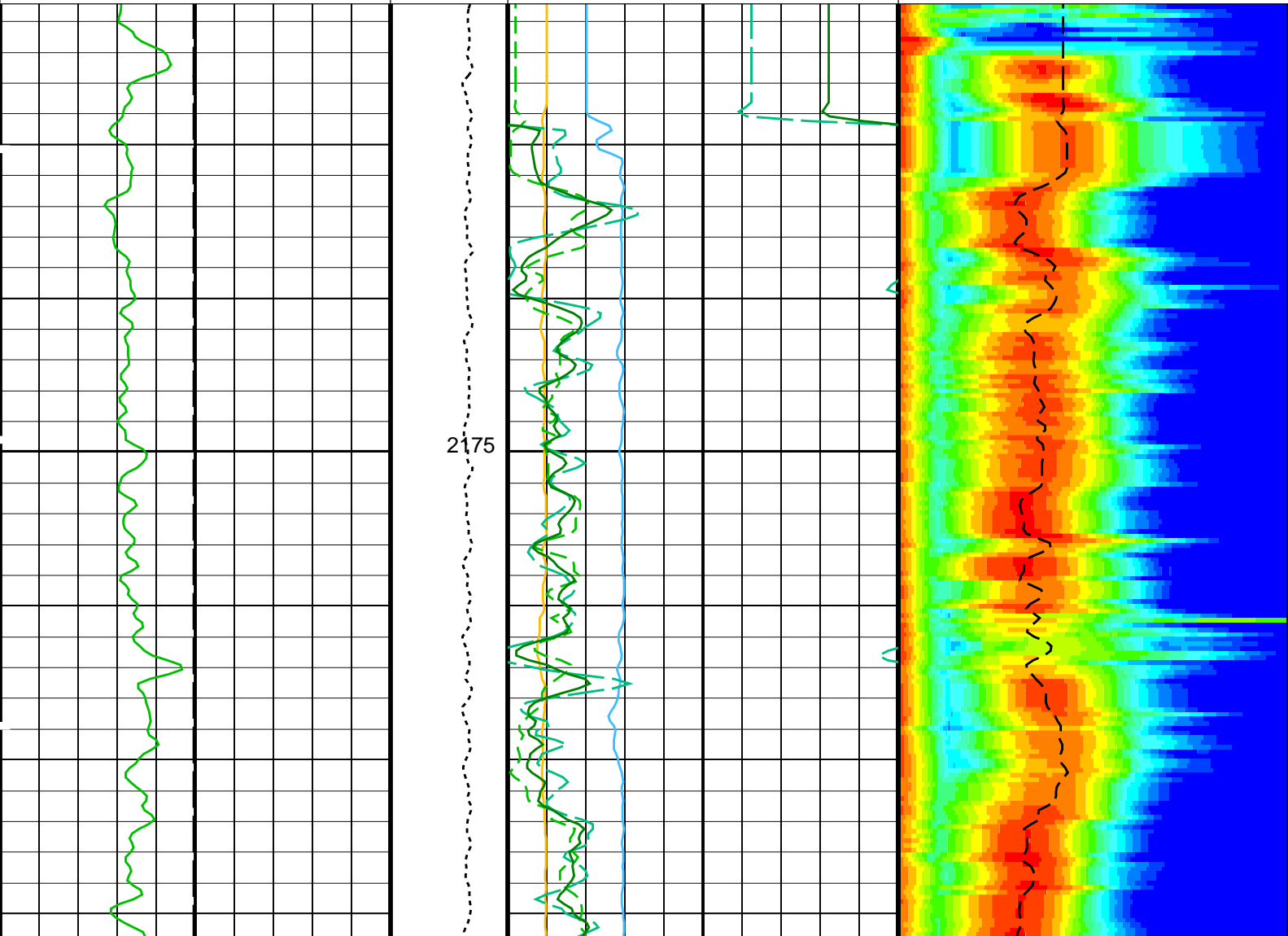
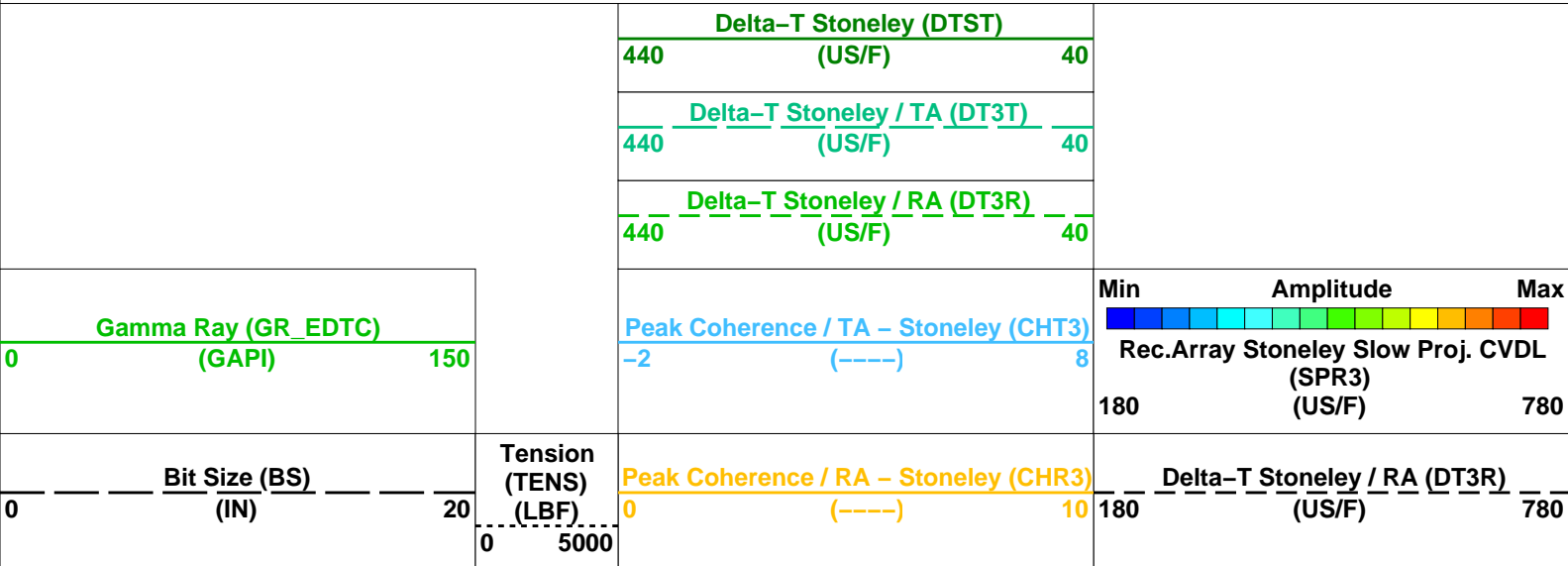
DEFAULT DSI\_NGS\_033PUP FN:26 PRODUCER 24-Dec-2023 17:02 2260.9 M 2160.4 M

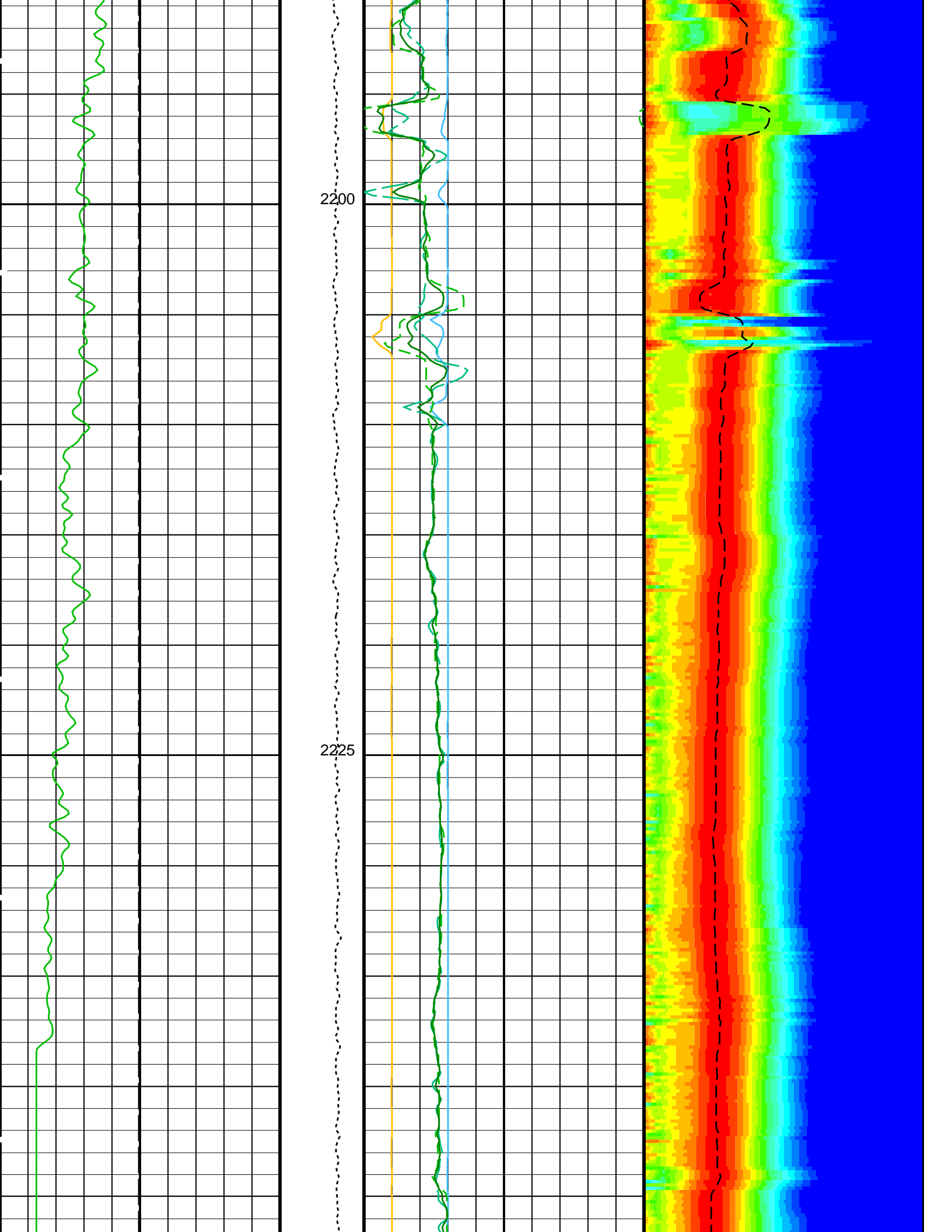
OP System Version: 19C0-187

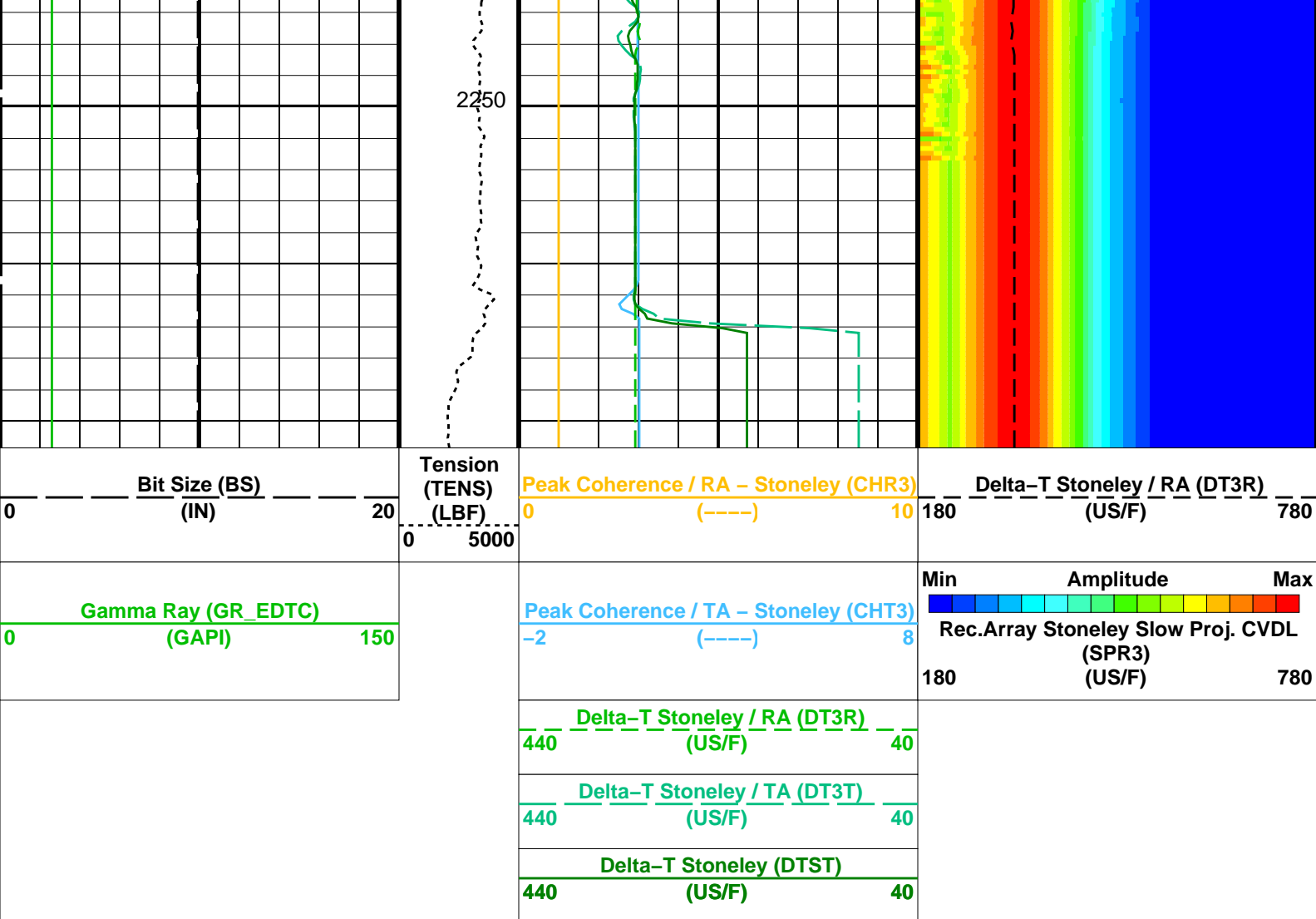
DSST-B 19C0-187 HNGC-B 19C0-187  
HNGS-BA 19C0-187 EDTC-B 19C0-187

PIP SUMMARY

Time Mark Every 60 S







### PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
DDE3	Digitizing Delay 3	0 US
DDEX	Digitizing Delay X	0 US
DSI3	Digitizer Sample Interval 3	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DWC3	Digitizer Word Count 3	512
DWCX	Digitizer Word Count X	512
MTXG	Monopole Transmitter Geometry	186 IN
NWI3	Number Waveform Items 3	8
NWIX	Number Waveform Items X	0
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM3	DSST Sonic Acquisition Mode 3 - Monopole Mode for Stoneley	EVEN
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS3	STC Sonic Array Status - Monopole Stoneley	255
SBO3	STC Search Band Offset - Monopole Stoneley	2000 US
SBW3	STC Search Bandwidth - Monopole Stoneley	6000 US
SFC3	STC Formation Character - Monopole Stoneley	SELECTABLE
SFM3	STC Filter - Monopole Stoneley	B.5-1.5K
SLL3	STC Slowness Lower Limit - Monopole Stoneley	180 US/F
SST3	STC Slowness Step - Monopole Stoneley	4 US/F
SSW3	STC Source Waveform - Monopole Stoneley	WF_SAM3
STLL	Label Slowness Lower Limit - Monopole Stoneley	180 US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	780 US/F

STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	780	US/F
SWD3	STC Slowness Width – Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill – Monopole Stoneley	0	US
TLL3	STC Time Lower Limit – Monopole Stoneley	620	US
TST3	STC Time Step – Monopole Stoneley	200	US
TUL3	STC Time Upper Limit – Monopole Stoneley	12020	US
TWD3	STC Time Width – Monopole Stoneley	2000	US
TWI3	STC Integration Time Window – Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST\_STONELEY\_VDL\_COLOR    Vertical Scale: 1:200    Graphics File Created: 24-Dec-2023 17:02

## OP System Version: 19C0-187

DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

### Input DLIS Files

DEFAULT	DSI_NGS_021LUP	FN:17	PRODUCER	23-Dec-2023 19:12	2260.9 M	2161.0 M
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### Output DLIS Files

DEFAULT	DSI_NGS_033PUP	FN:26	PRODUCER	24-Dec-2023 17:02
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Schlumberger

Main Pass

MAXIS Field Log

### Input DLIS Files

DEFAULT	DSI_NGS_022LUP	FN:18	PRODUCER	23-Dec-2023 19:28	2258.6 M	1653.8 M
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### Output DLIS Files

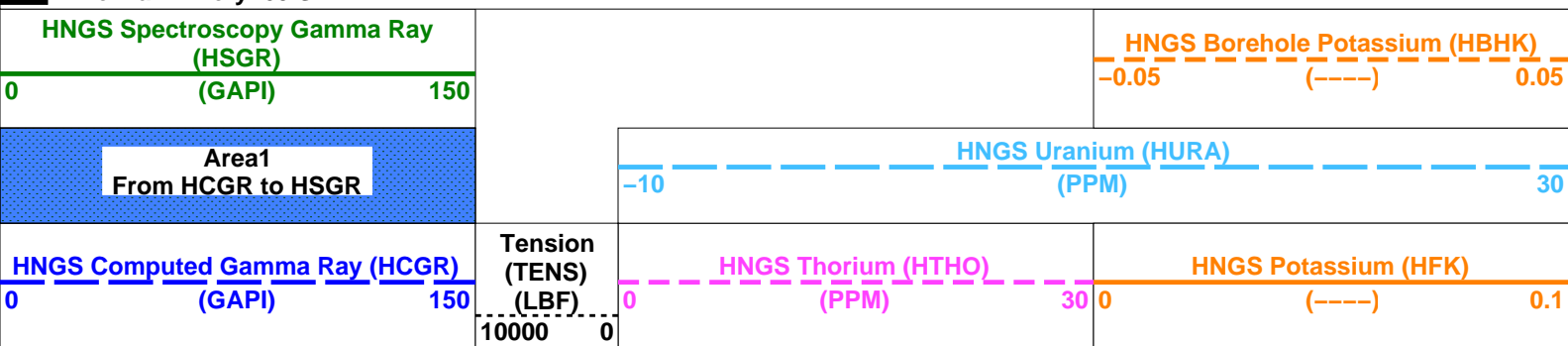
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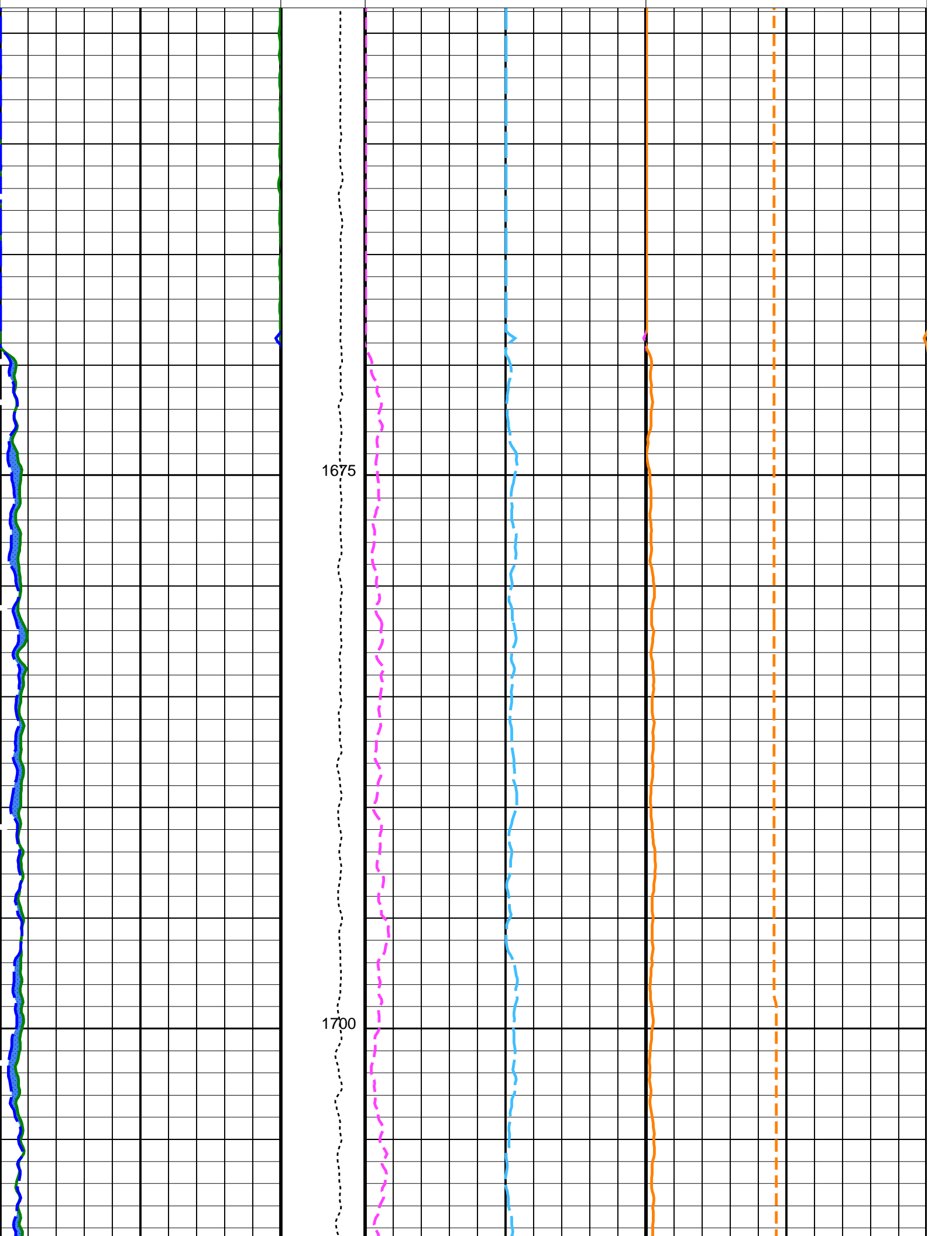
## OP System Version: 19C0-187

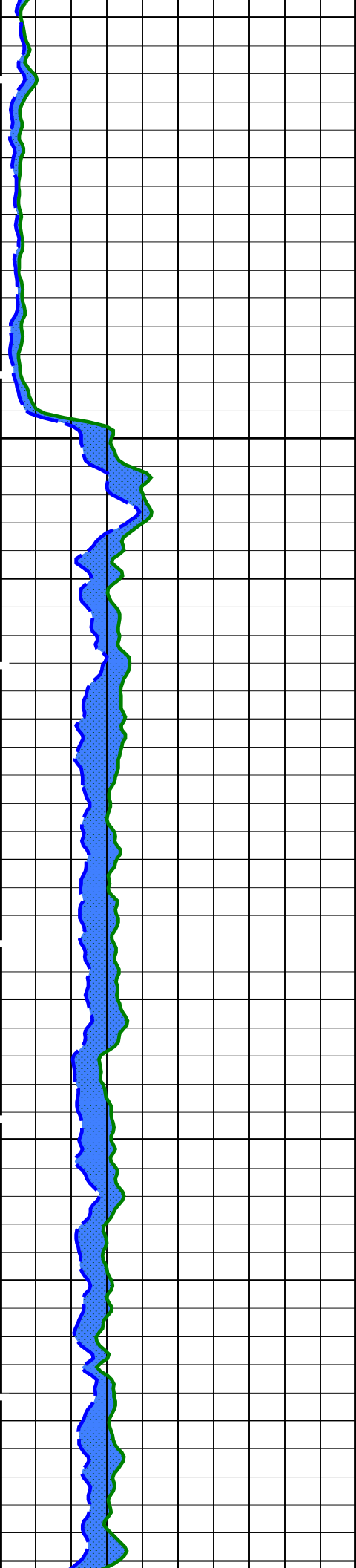
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

### PIP SUMMARY

Time Mark Every 60 S

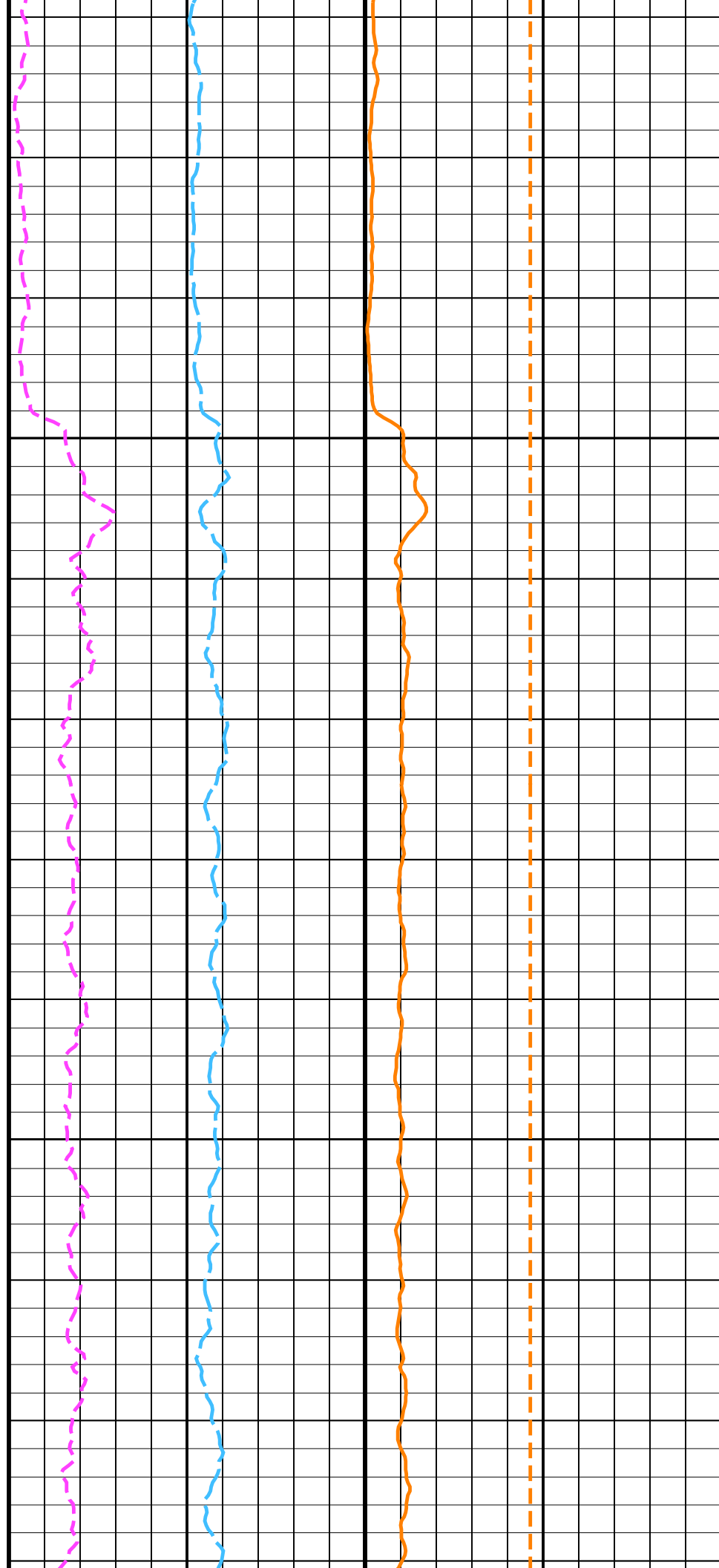




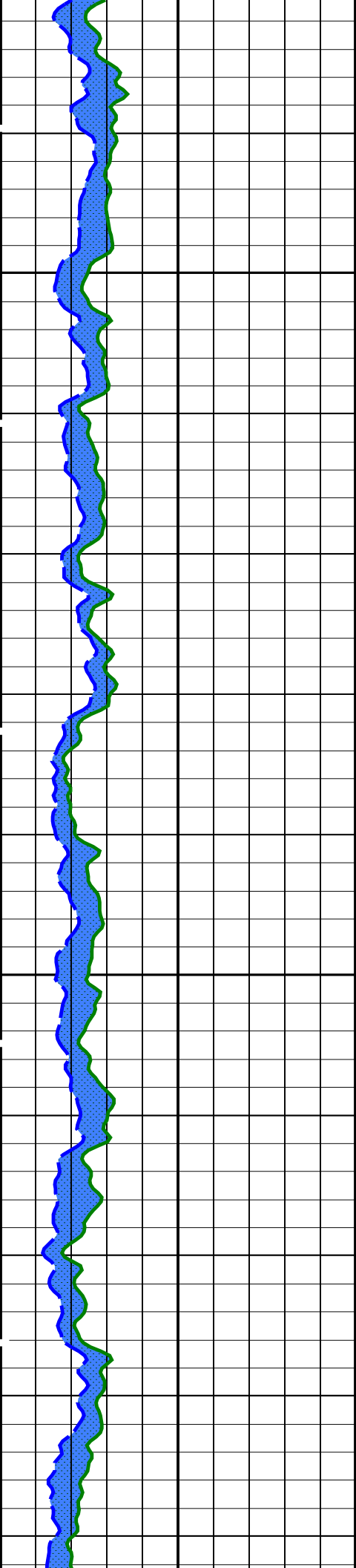


1725

1750

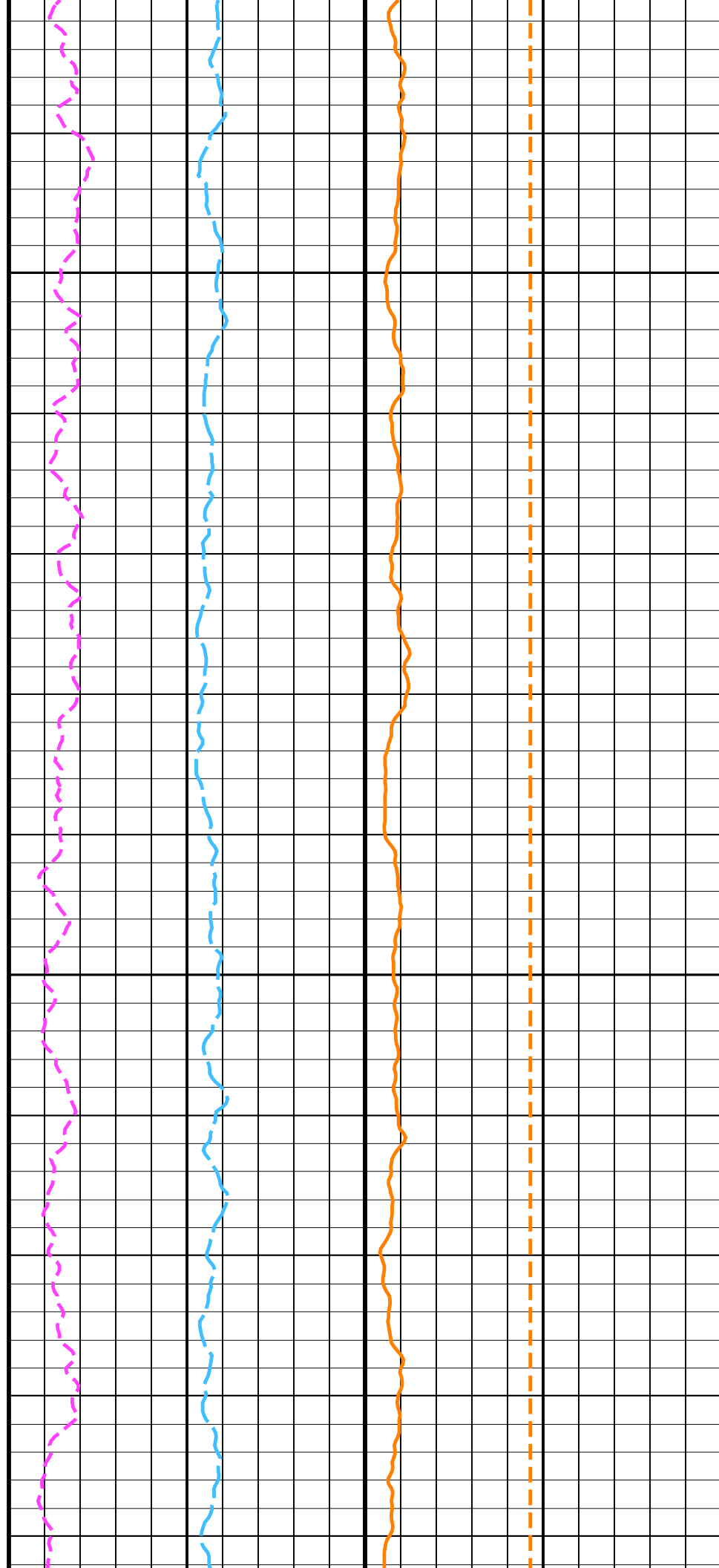


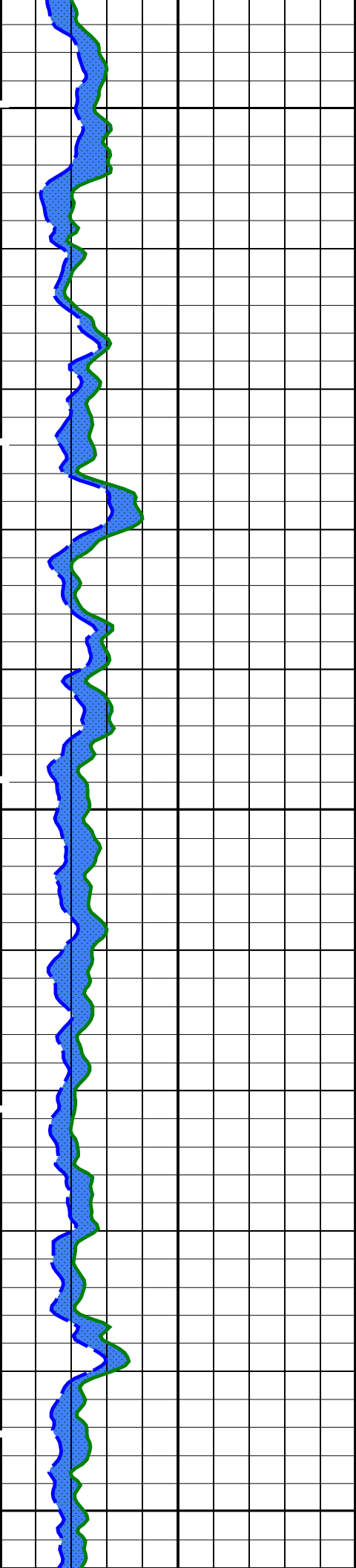




1775

1800

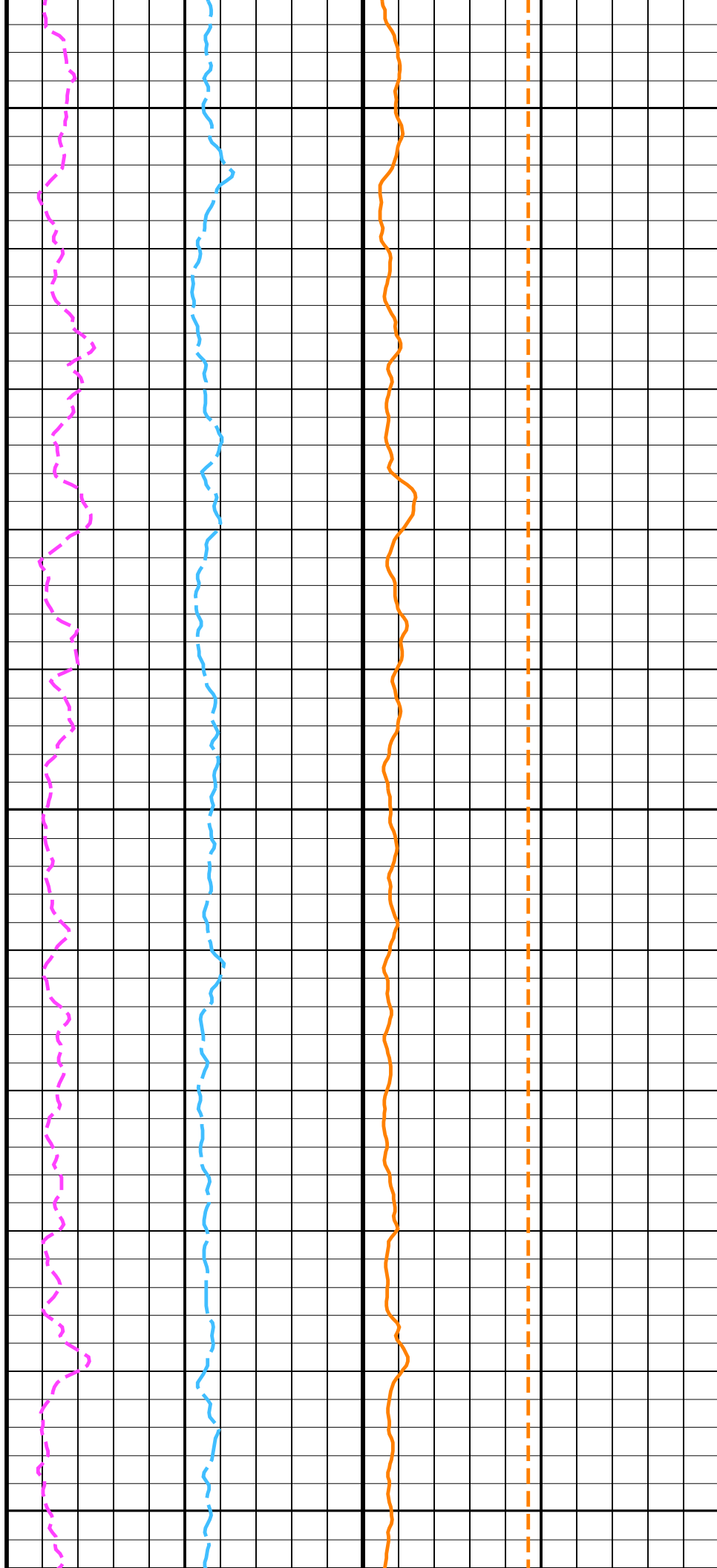


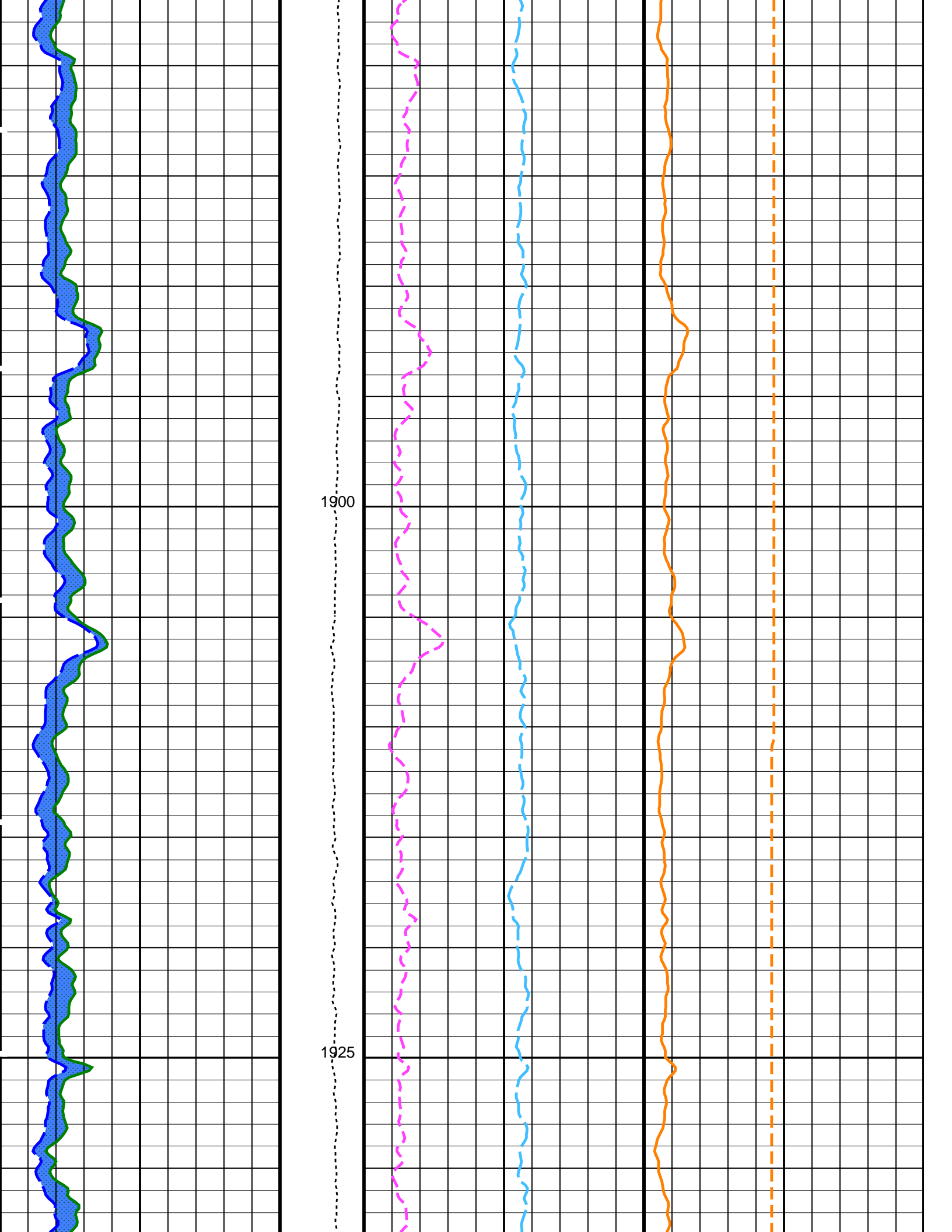


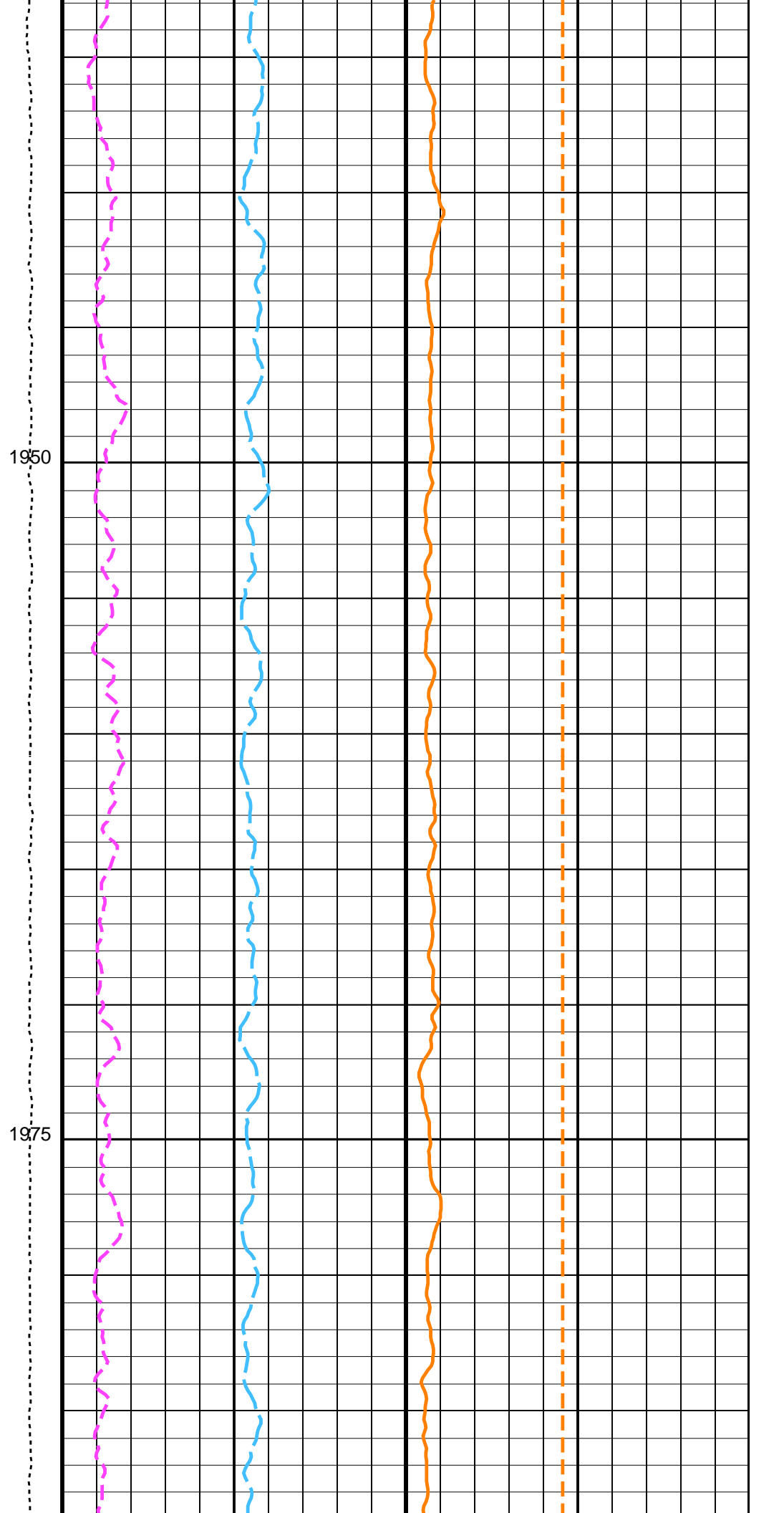
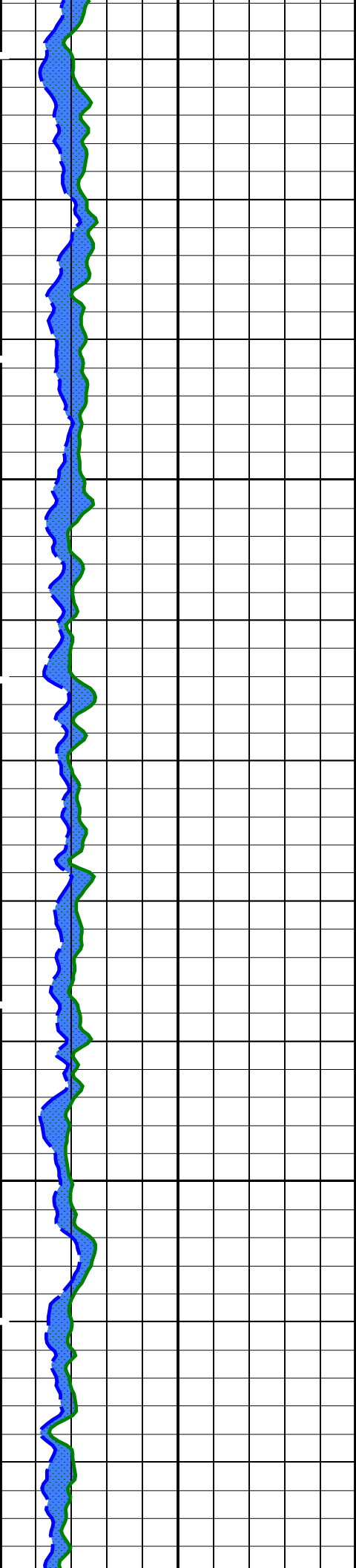
1825

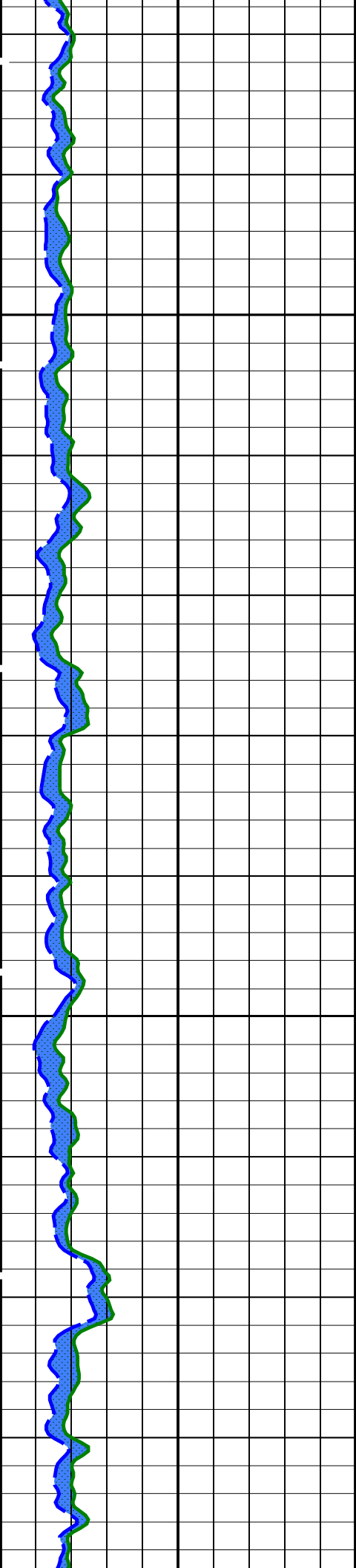
1850

1875



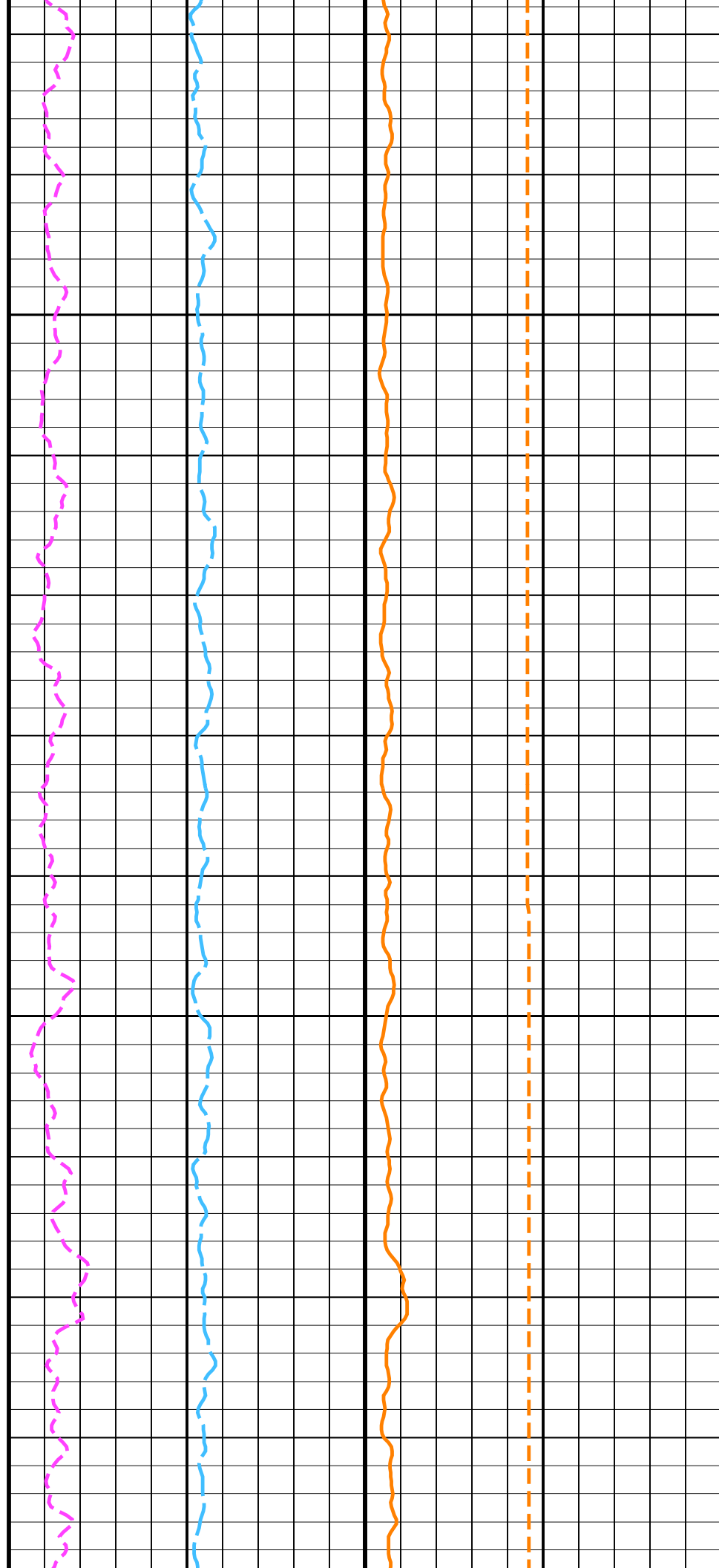


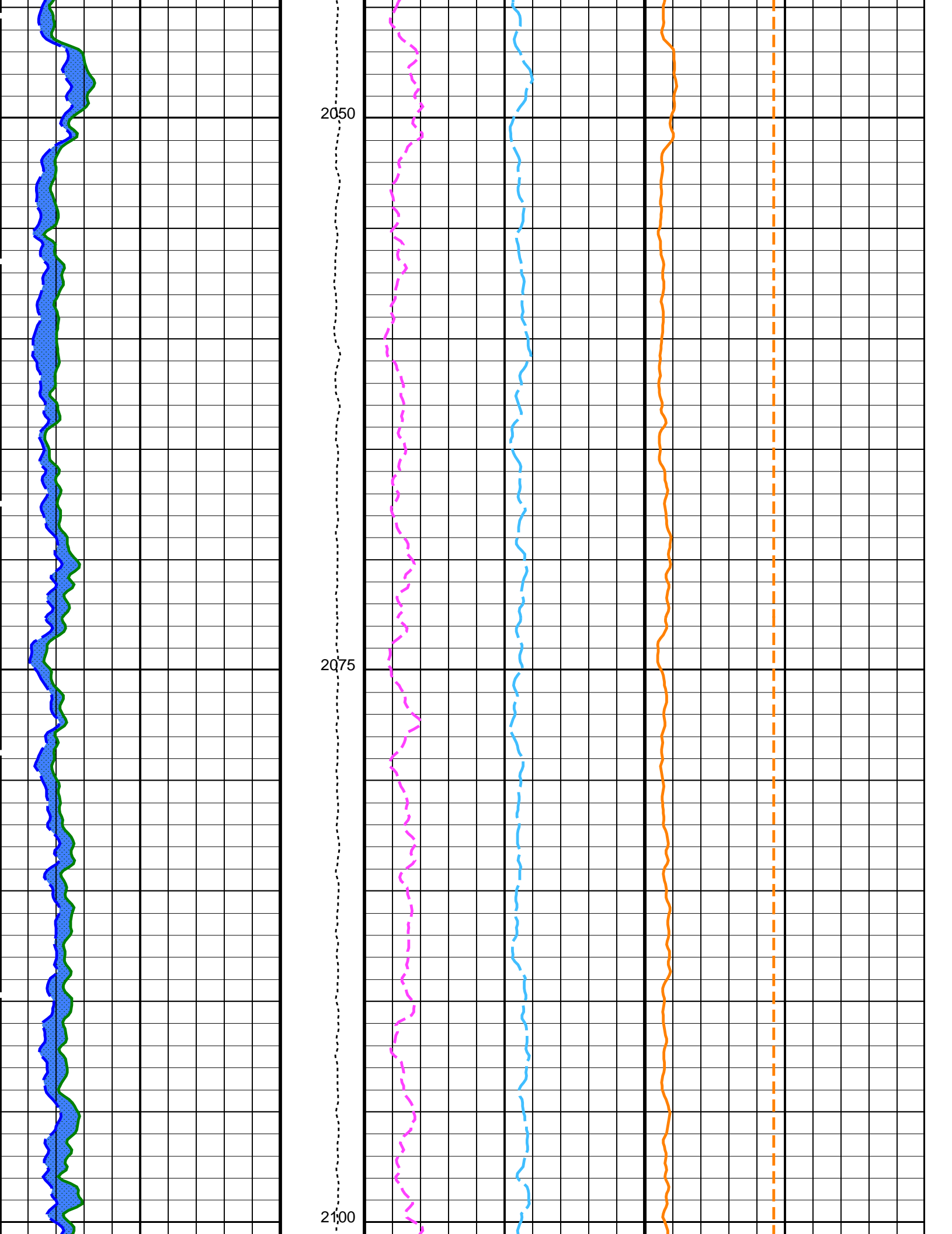


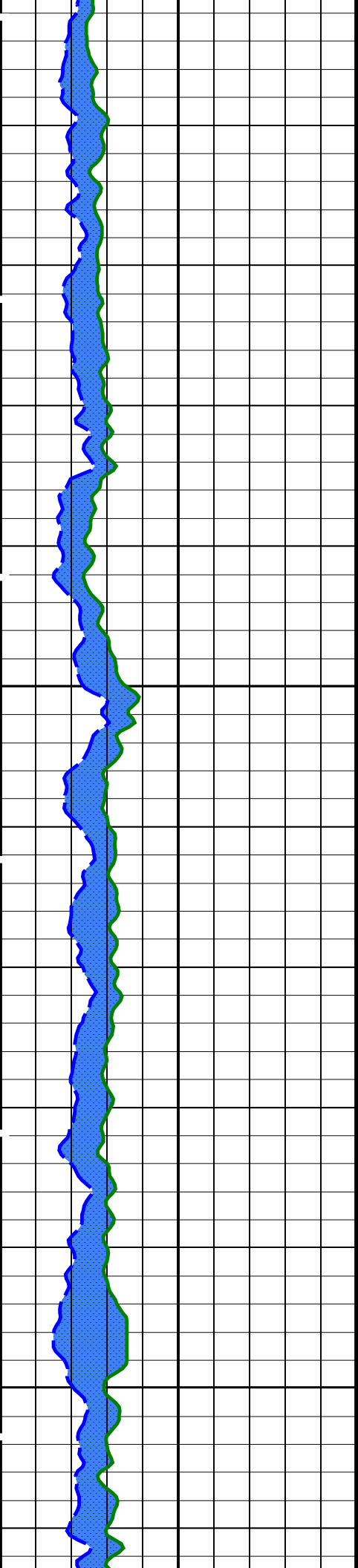


2000

2025

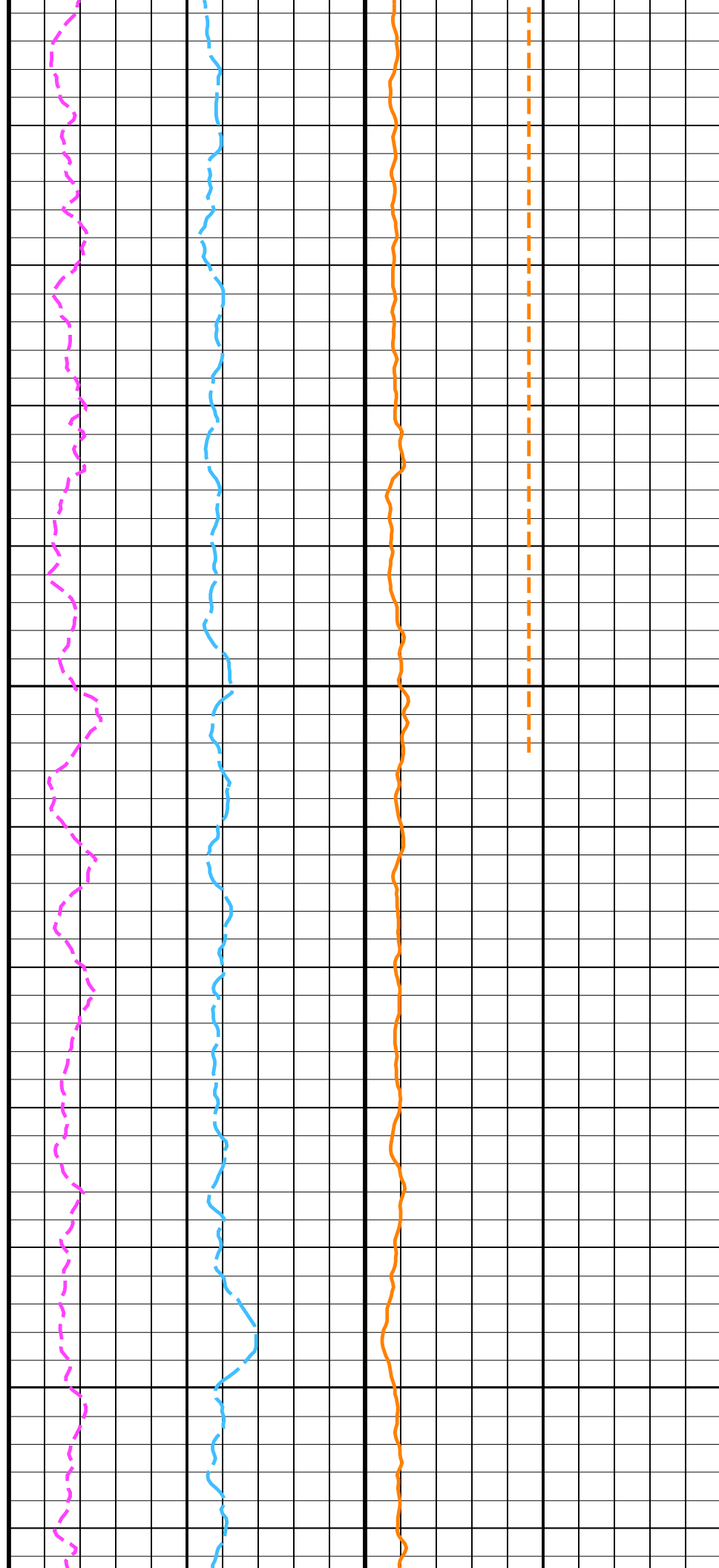


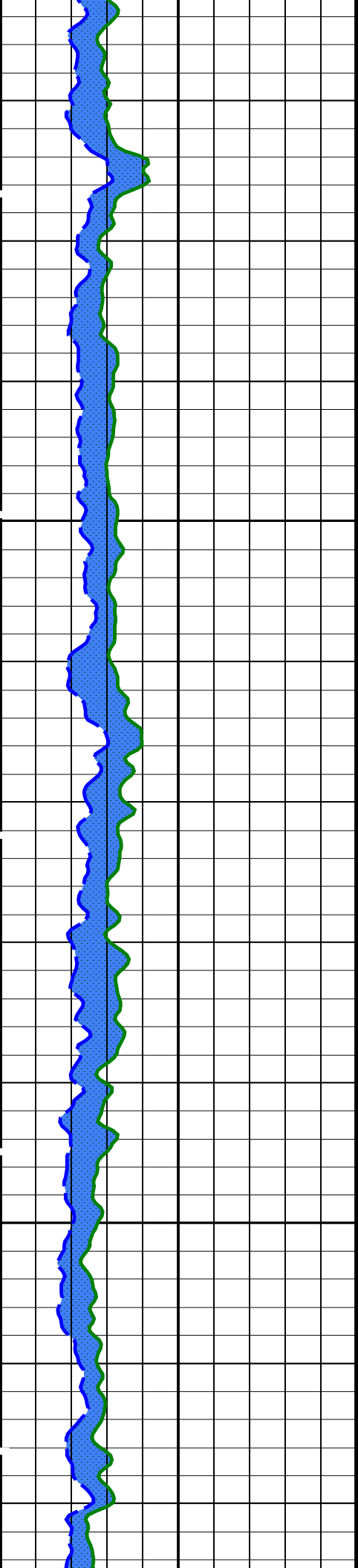




2125

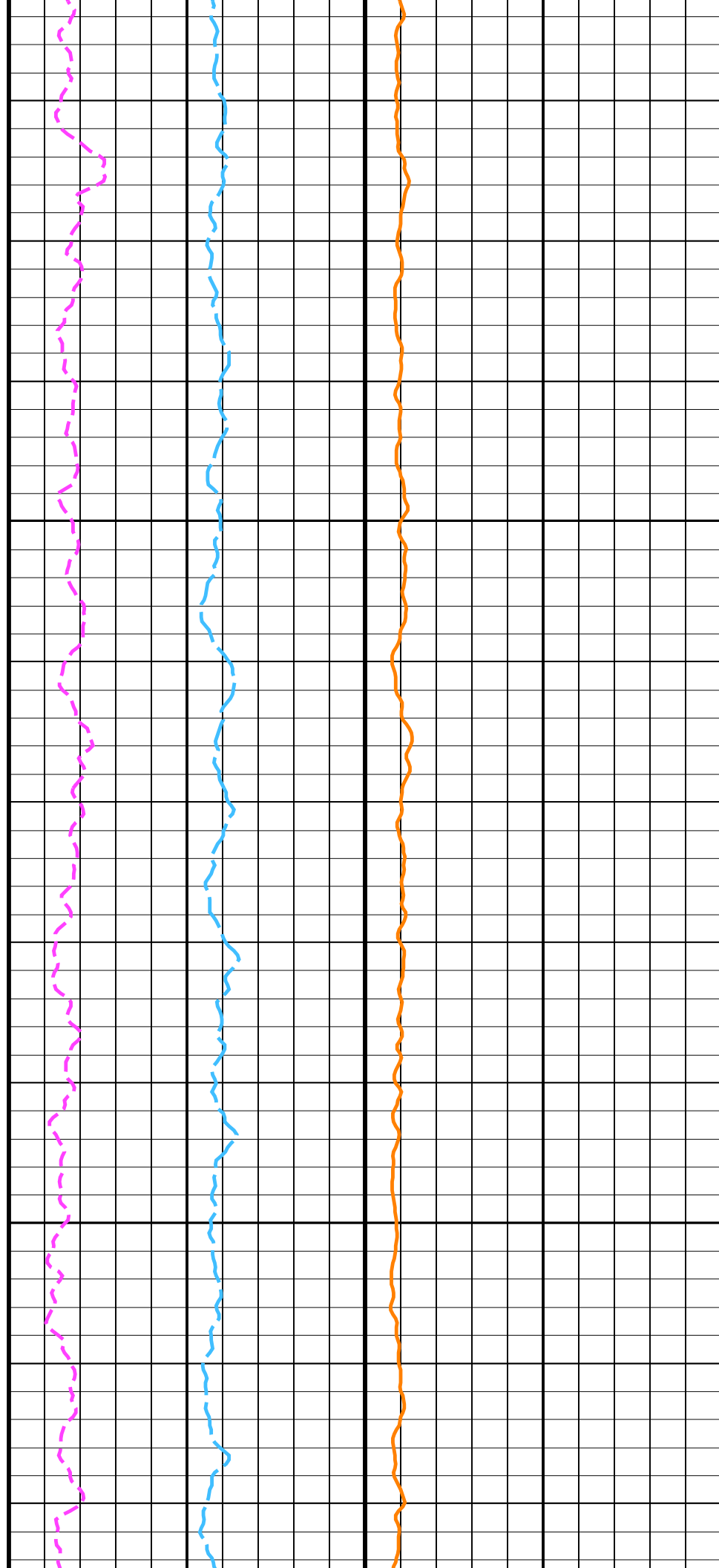
2150



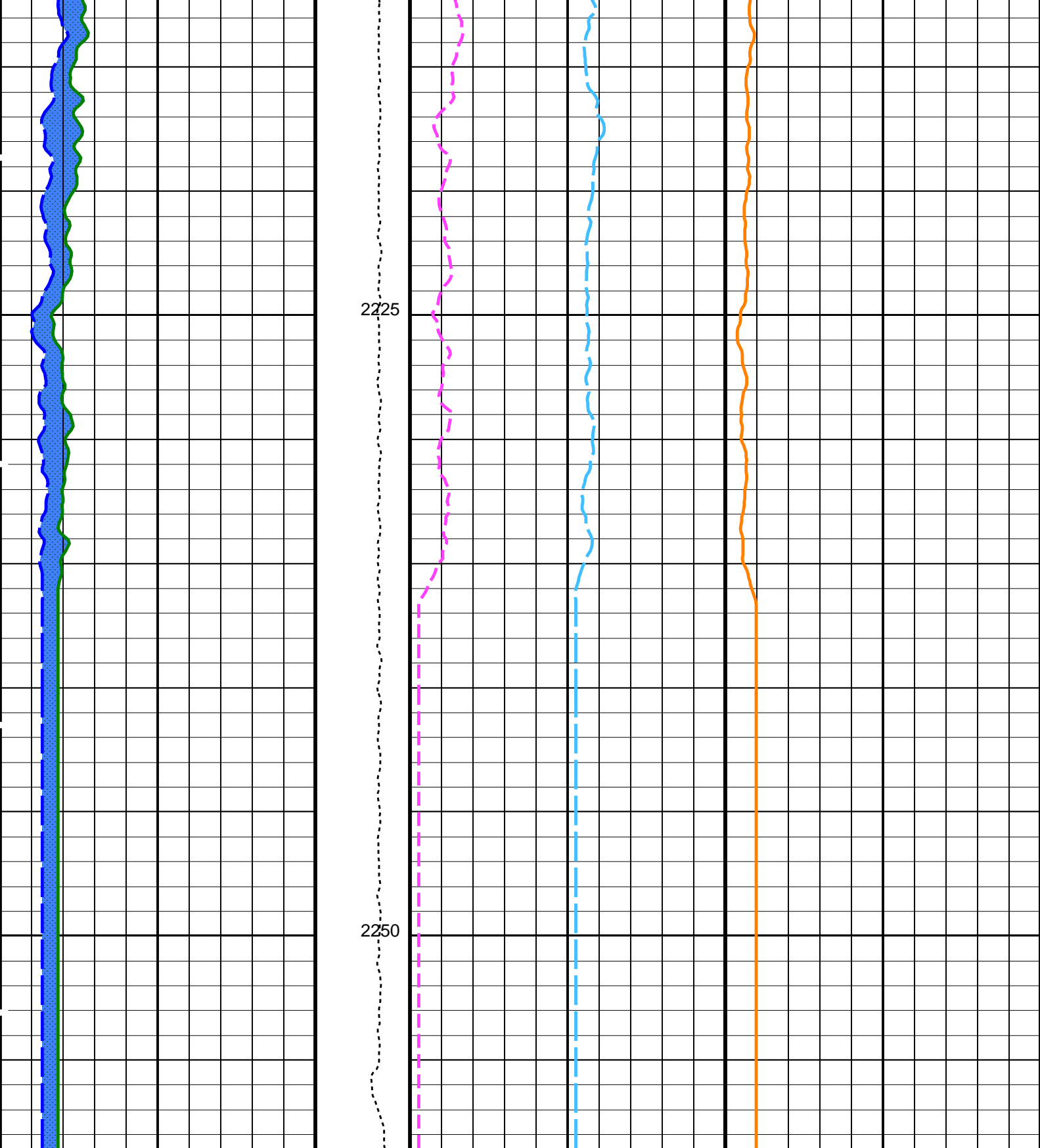


2175

2200







<div>HNGS Computed Gamma Ray (HCGR)</div> <div>(GAPI)</div> <div>0150</div>		<div>Tension (TENS)</div> <div>(LBF)</div> <div>100000</div>	<div>HNGS Thorium (HTHO)</div> <div>(PPM)</div> <div>030</div>		<div>HNGS Potassium (HFK)</div> <div>(----</div> <div>00.1</div>	
<div>Area1</div> <div>From HCGR to HSGR</div>			<div>HNGS Uranium (HURA)</div> <div>(PPM)</div> <div>-1030</div>		<div>HNGS Borehole Potassium (HBHK)</div> <div>(----</div> <div>-0.050.05</div>	
<div>HNGS Spectroscopy Gamma Ray (HSGR)</div> <div>(GAPI)</div> <div>0150</div>						

Format: HNGSYields      Vertical Scale: 1:200      Graphics File Created: 24-Dec-2023 17:02

DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

DEFAULT	DSI NGS 022LUP	FN:18	PRODUCER	23-Dec-2023 19:28	2258.6 M	1653.8 M
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DEFAULT DSI NGS 034PUP FN:27 PRODUCER 24-Dec-2023 17:02

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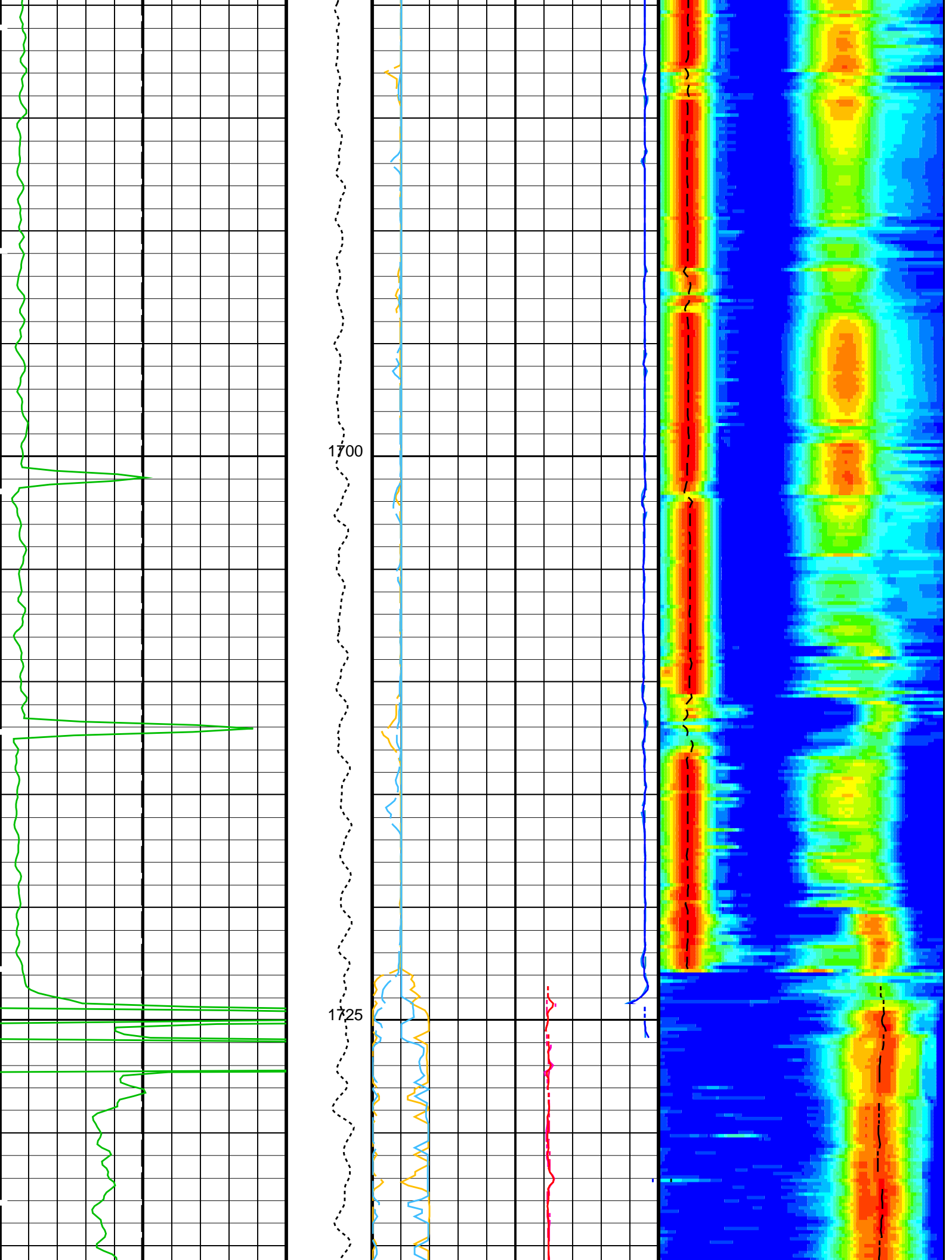
Well: Expedition 401, Site U1609A

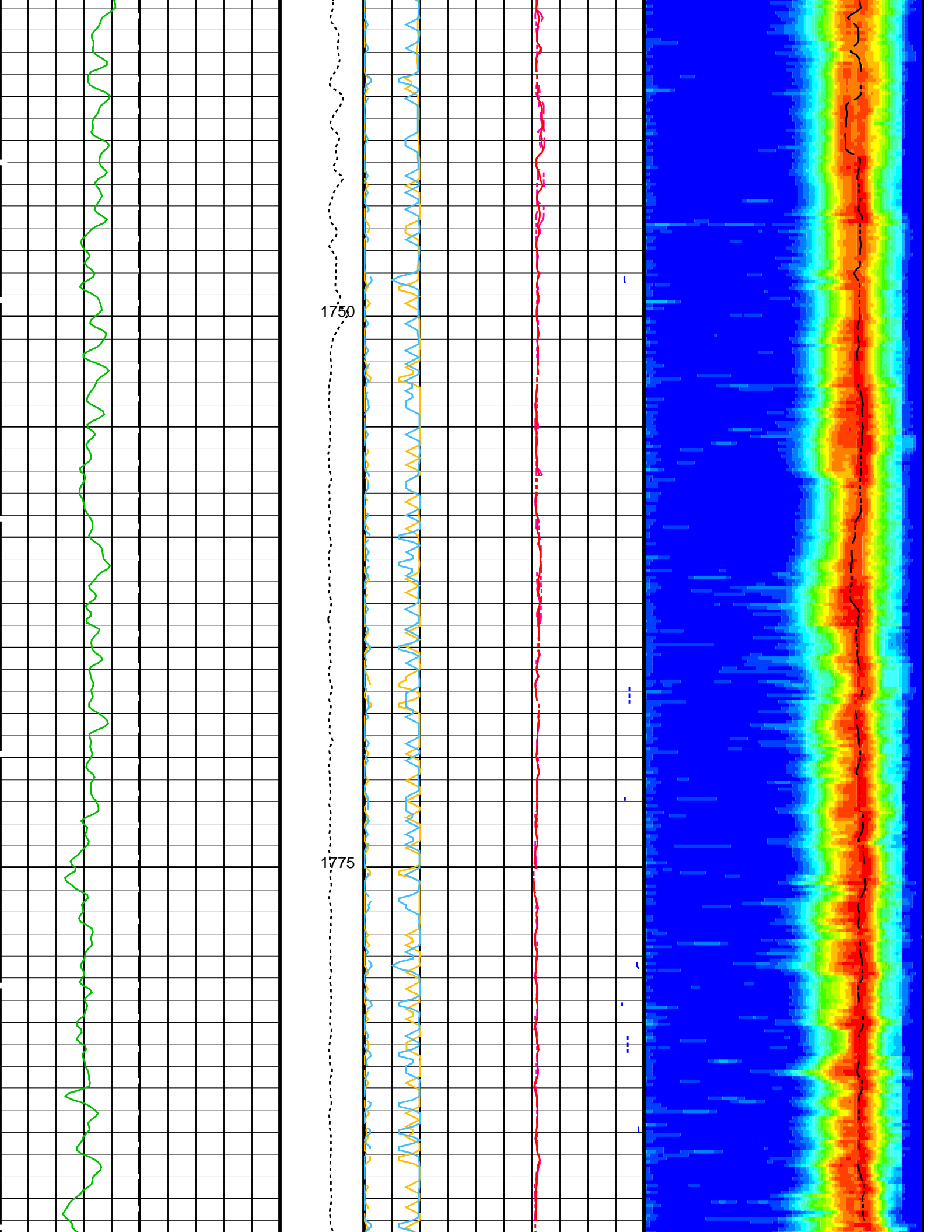
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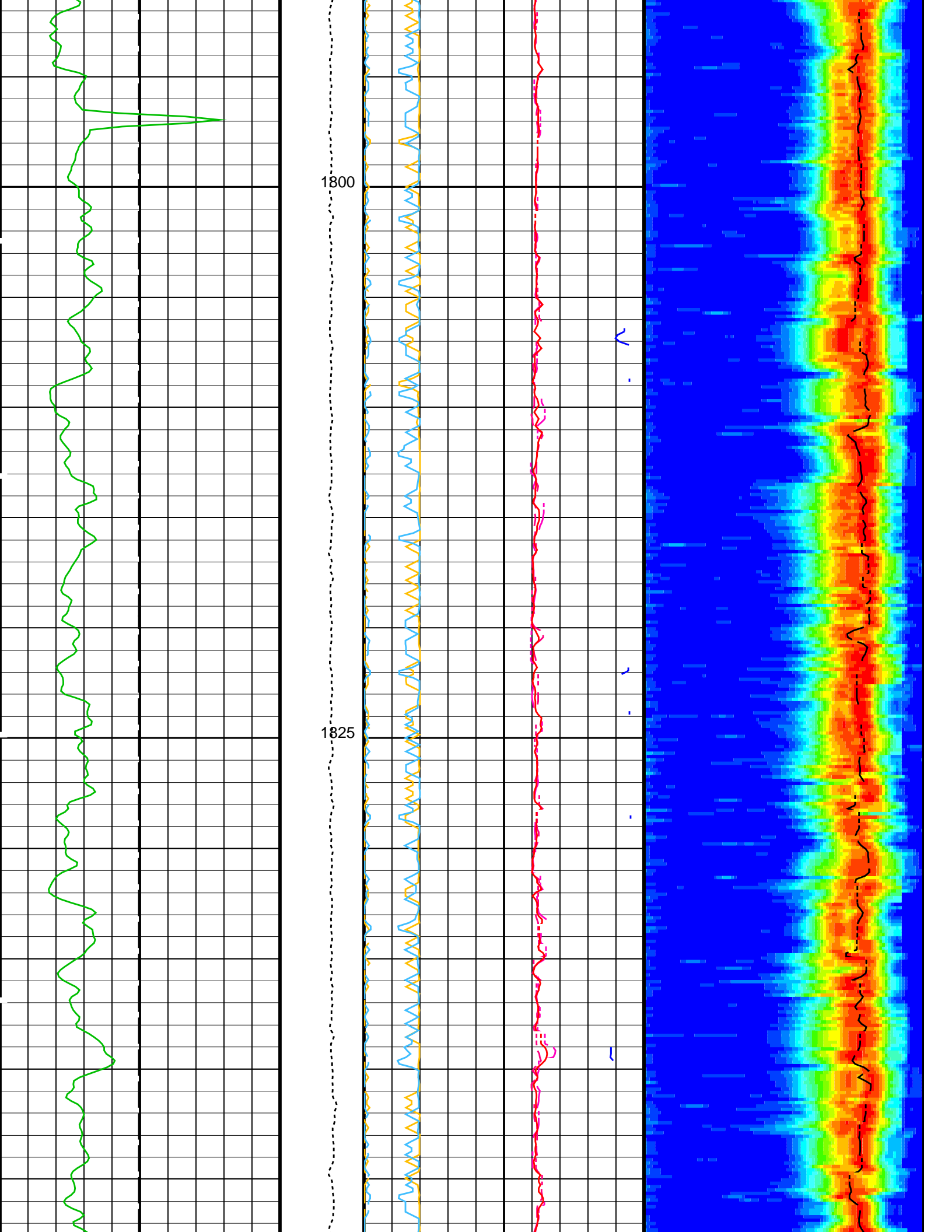
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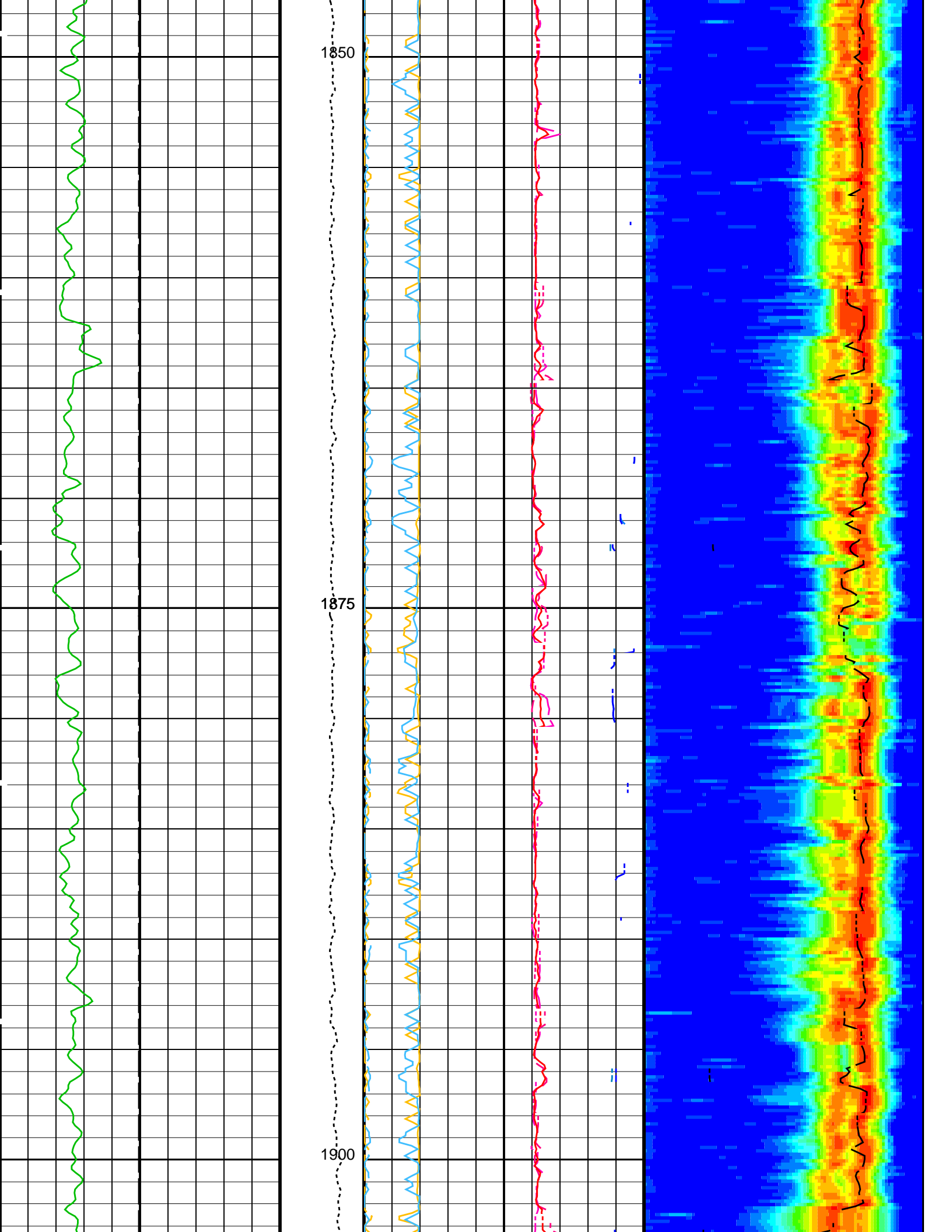
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HNGS-BA	19C0-187	EDTC-B	19C0-187

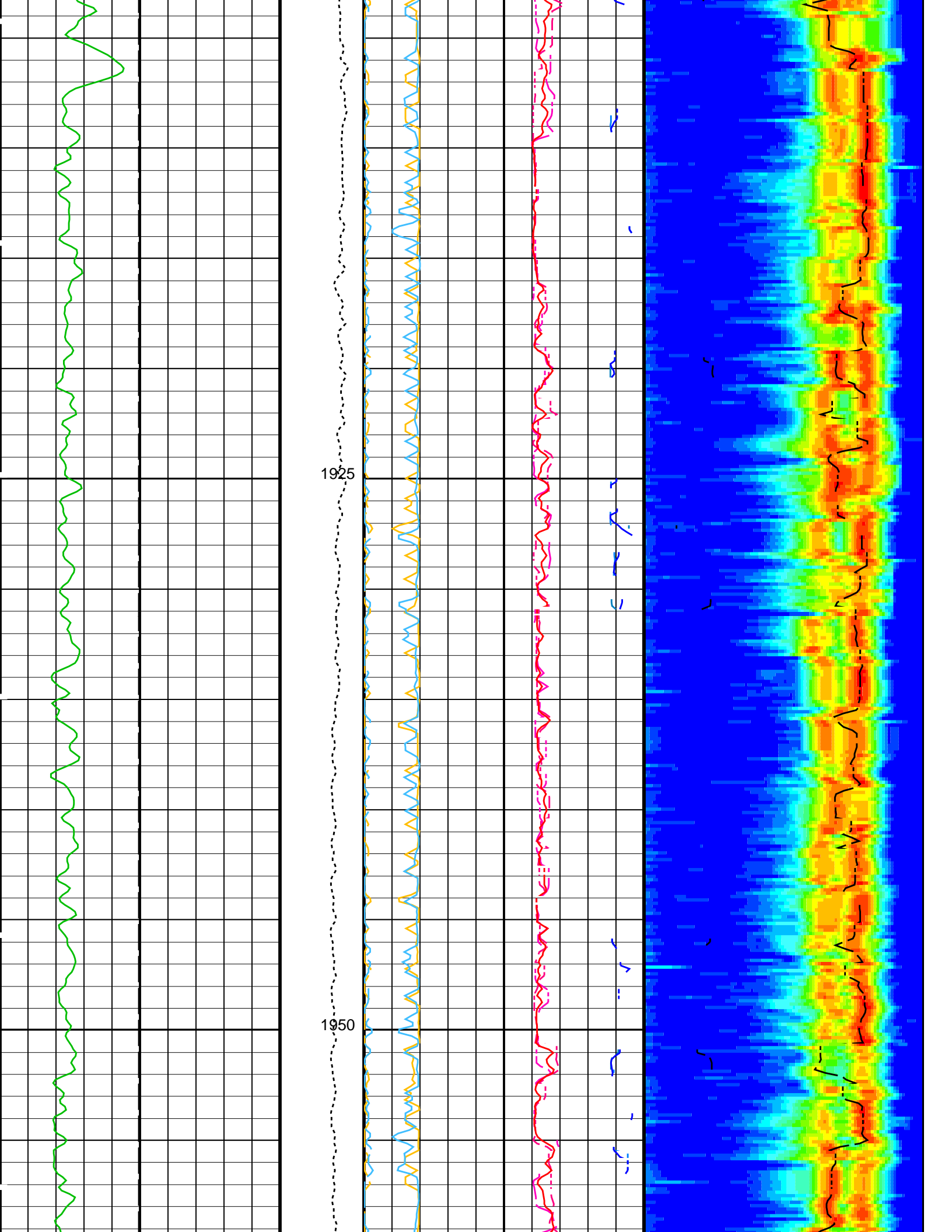




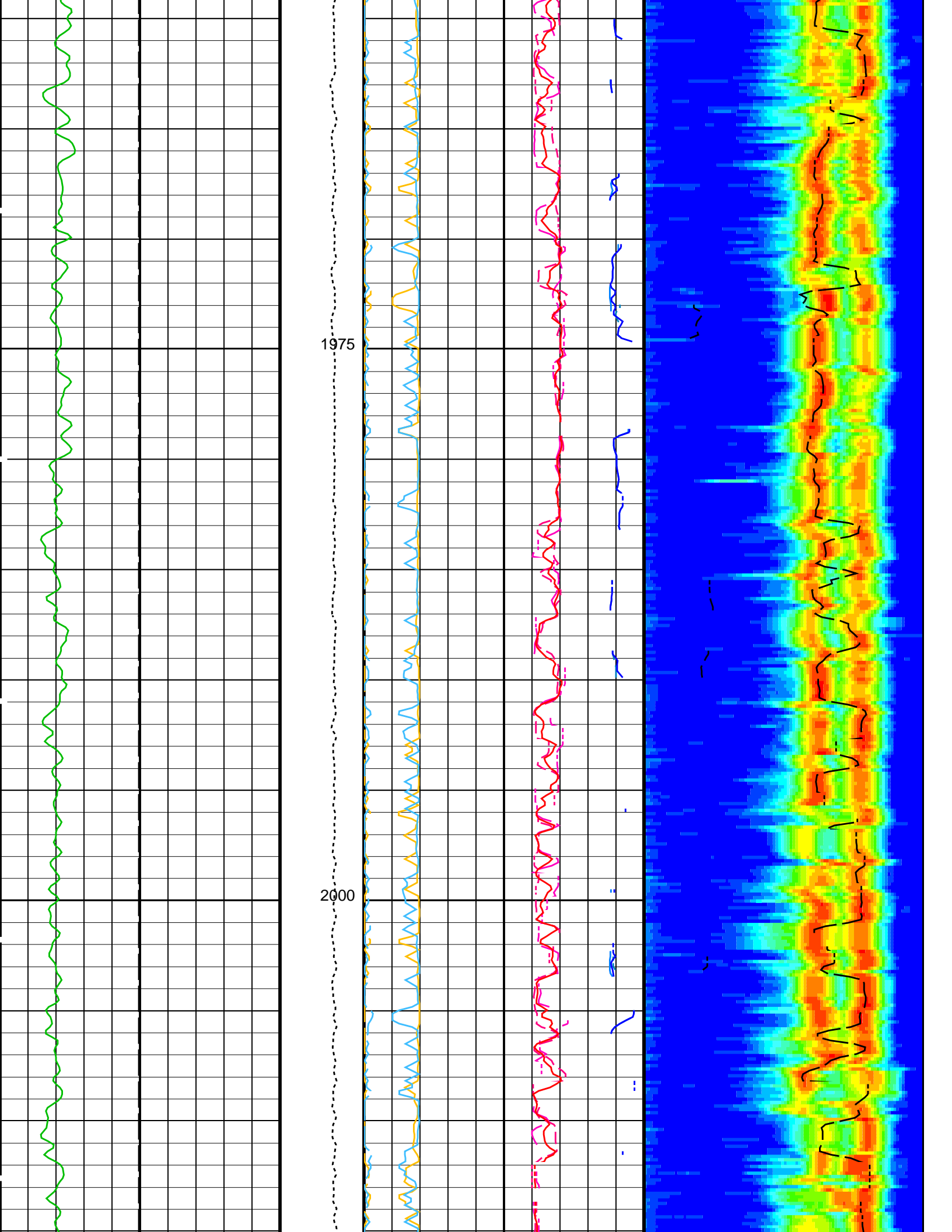


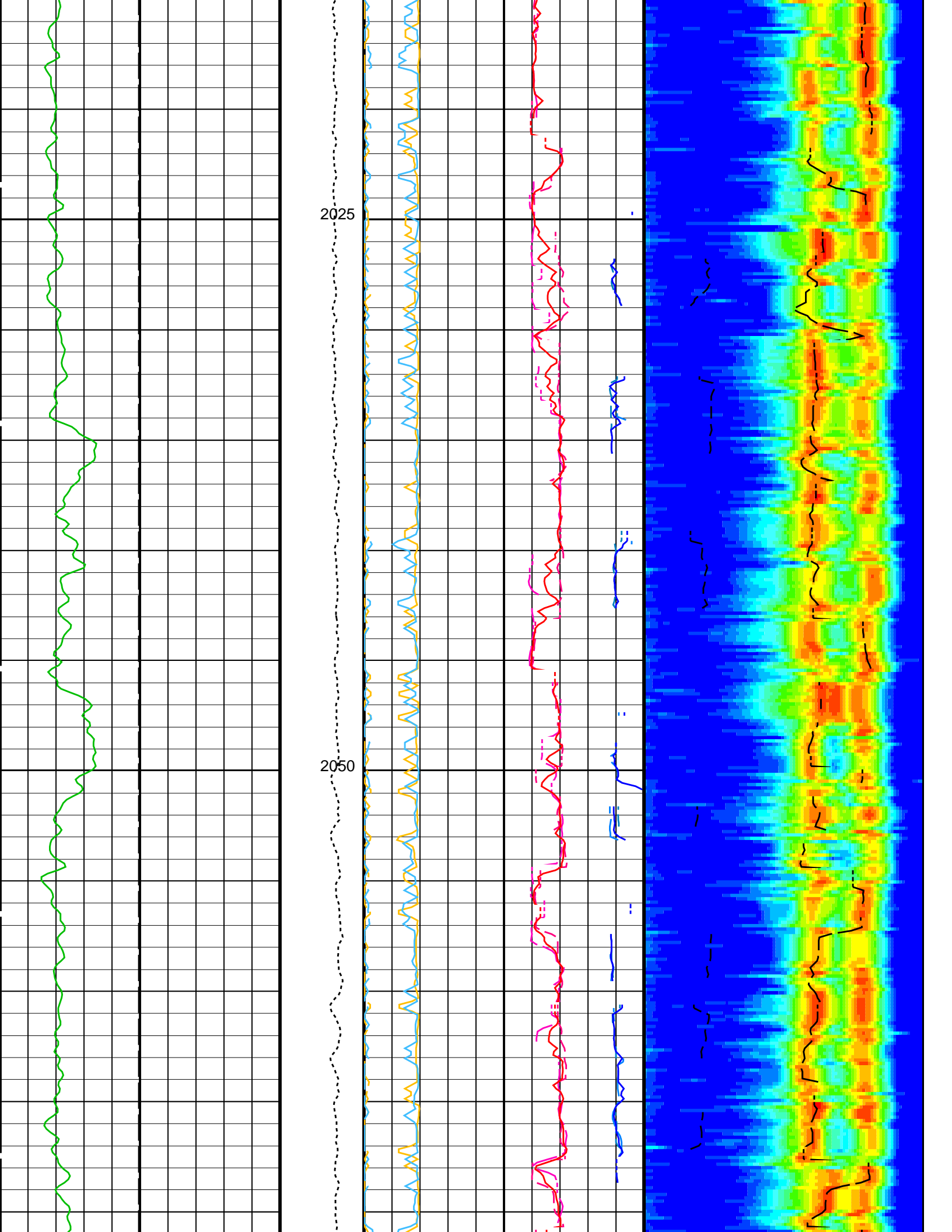


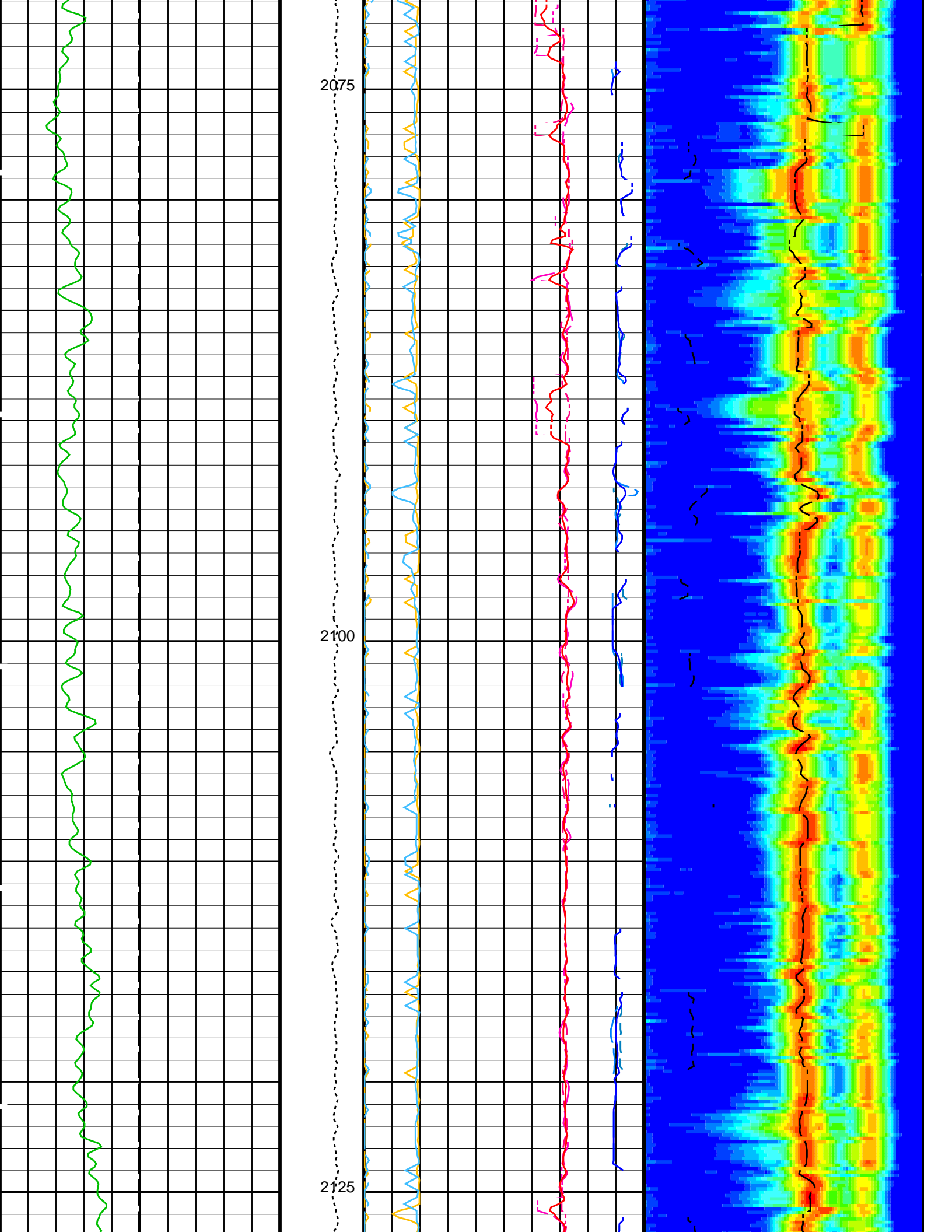


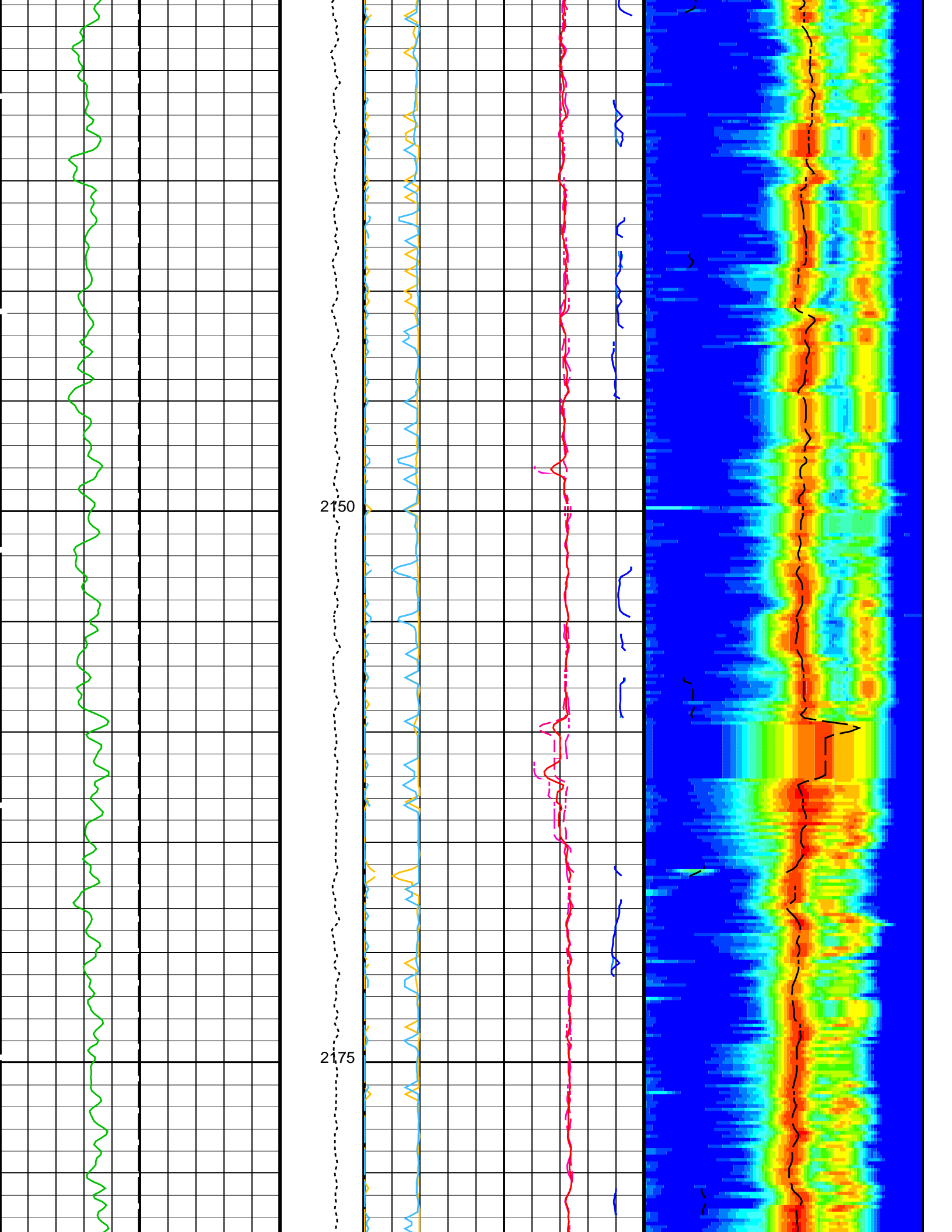


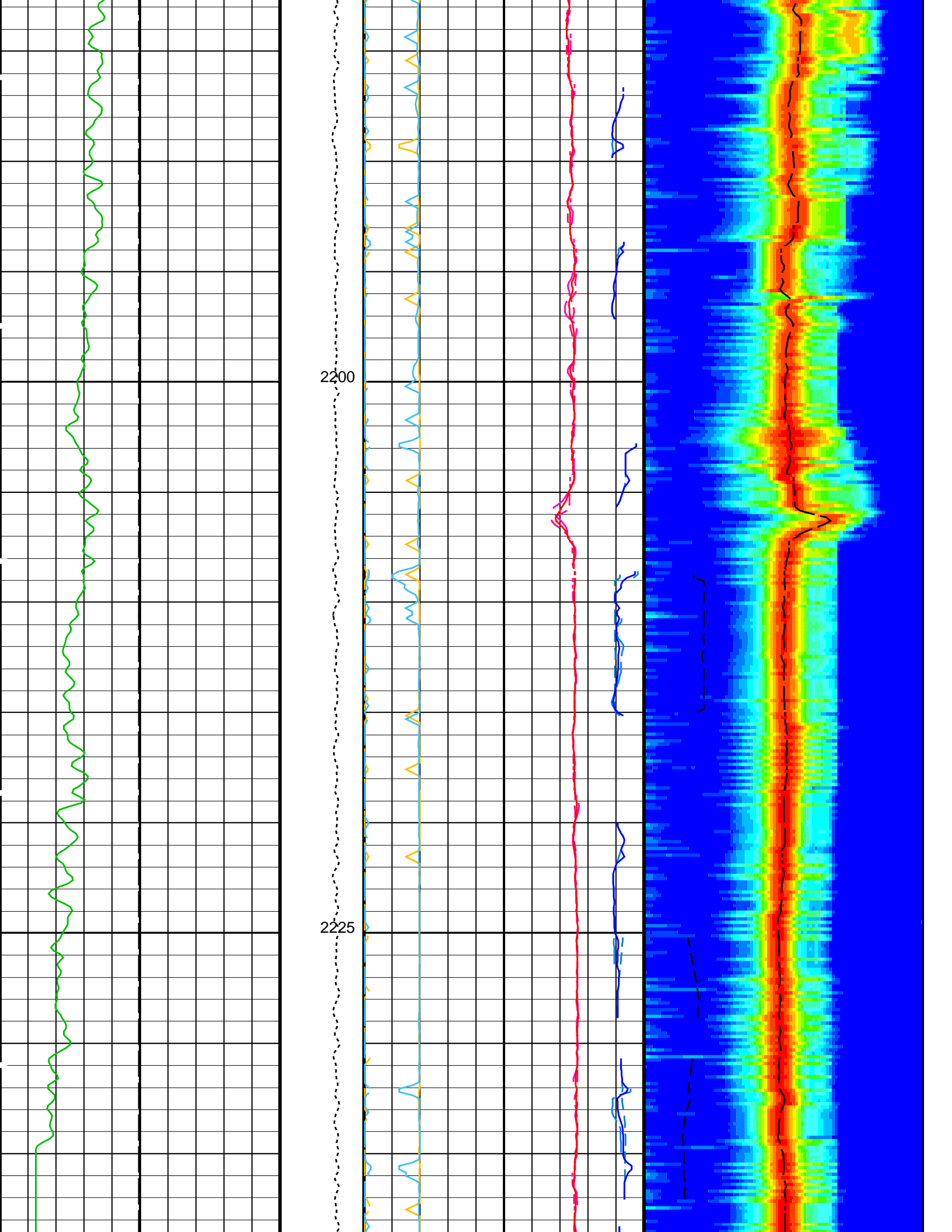


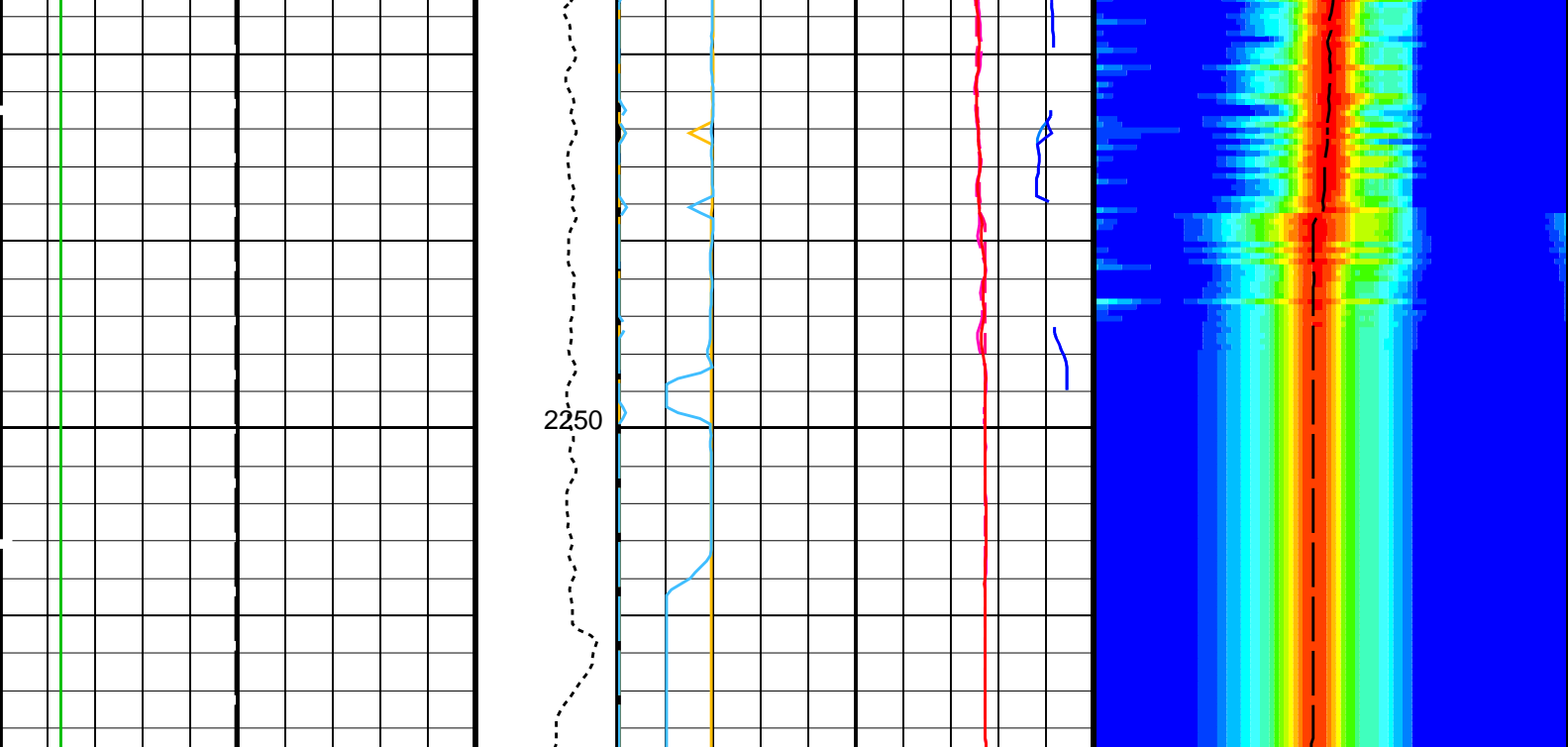












0	20	0	5000	Peak Coherence / RA – P & S Comp (CHRP)	0	10	Delta–T Comp / RA – P & S (DTRP) (US/F)	40	240				
0	150			Peak Coherence / TA – P & S Comp (CHTP)	0	10	Delta–T Shear / RA – P & S (DTRS) (US/F)	40	240				
								Delta–T Comp / RA – P & S (DTRP) (US/F)	440	40	<div>MinAmplitudeMax</div> <div>Rec.Array P&amp;S Slow Proj. CVDL (SPR4)</div> <div>40(US/F)240</div>		
								Delta–T Comp / TA – P & S (DTTP) (US/F)	440	40			
								Delta–T Comp – P & S (DT4P) (US/F)	440	40			
								Delta–T Shear / RA – P & S (DTRS) (US/F)	440	40			
								Delta–T Shear / TA – P & S (DTTS) (US/F)	440	40			
								Delta–T Shear – P & S (DT4S) (US/F)	440	40			
								Peak Coherence / RA – P & S Shear (CHRS)	–1	9			
								Peak Coherence / TA – P & S Shear (CHTS)	–1	9			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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BHS	DSST-B: Dipole Shear Imager - B	OPEN
CASE	Borehole Status	50
	Label Casing Function	Monopole P&S

CASP	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	90	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta-T Fluid	212	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP	
LFC	Label Formation Character – Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	MFD_ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–12K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	130	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
BHS	HNGS–BA: Hostile Natural Gamma Ray Sonde		
	Borehole Status	OPEN	
BHS	EDTC–B: Enhanced DTS Cartridge		
	Borehole Status	OPEN	
BS	System and Miscellaneous		
DO	Bit Size	9.875	IN
PP	Depth Offset for Playback	0.0	M
	Playback Processing	NORMAL	

Format: DSST\_P\_S\_VDL\_COLOR      Vertical Scale: 1:200      Graphics File Created: 24–Dec–2023 17:02

## OP System Version: 19C0–187

DSST–B	19C0–187	HNGC–B	19C0–187
HNGS–BA	19C0–187	EDTC–B	19C0–187

## Input DLIS Files

DEFAULT	DSI_NGS_022LUP	FN:18	PRODUCER	23–Dec–2023 19:28	2258.6 M	1653.8 M
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## Output DLIS Files

DEFAULT	DSI_NGS_034PUP	FN:27	PRODUCER	24–Dec–2023 17:02
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## Input DLIS Files

DEFAULT	DSI_NGS_022LUP	FN:18	PRODUCER	23–Dec–2023 19:28	2258.6 M	1653.8 M
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Output DLIS Files

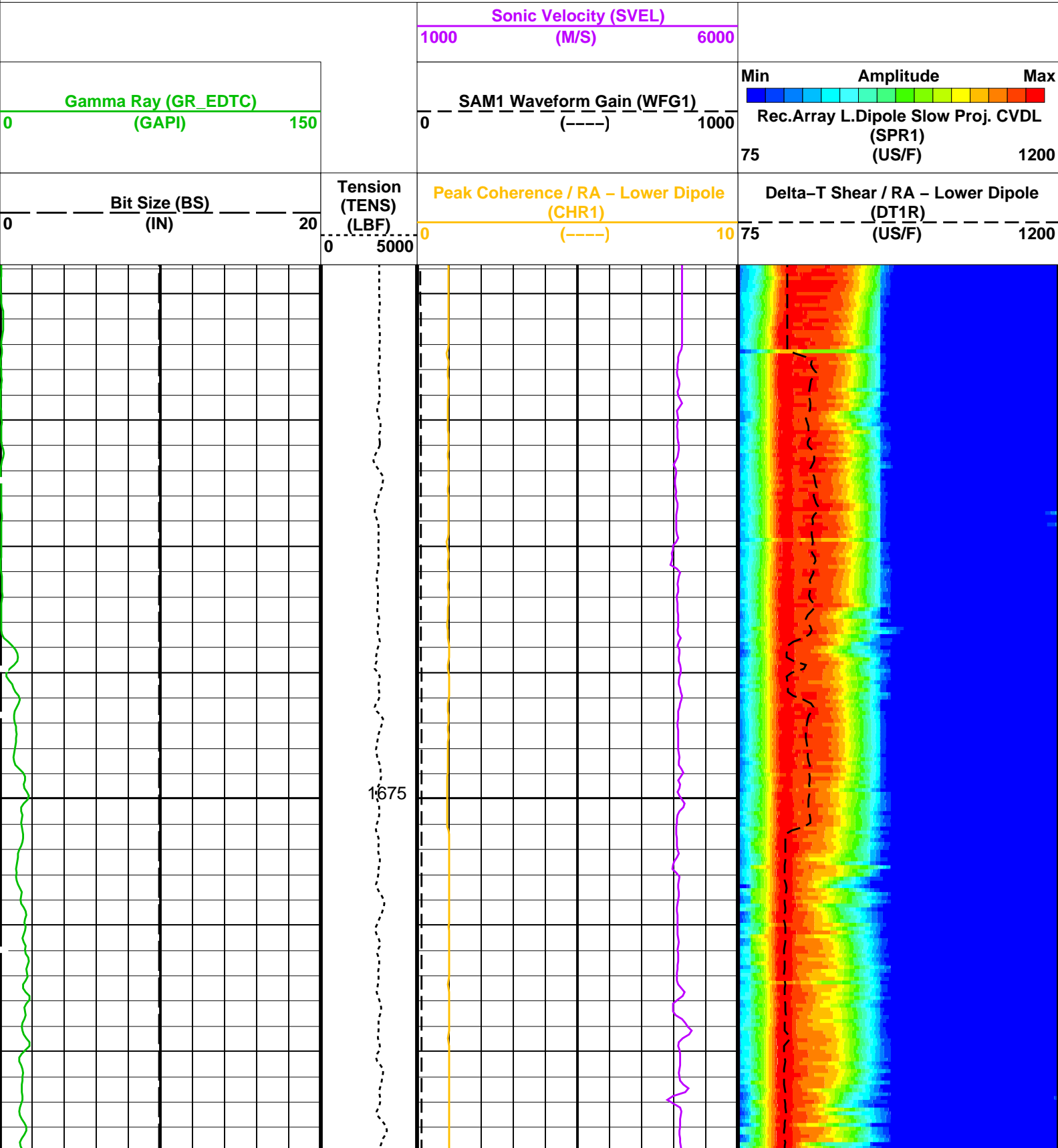
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OP System Version: 19C0-187

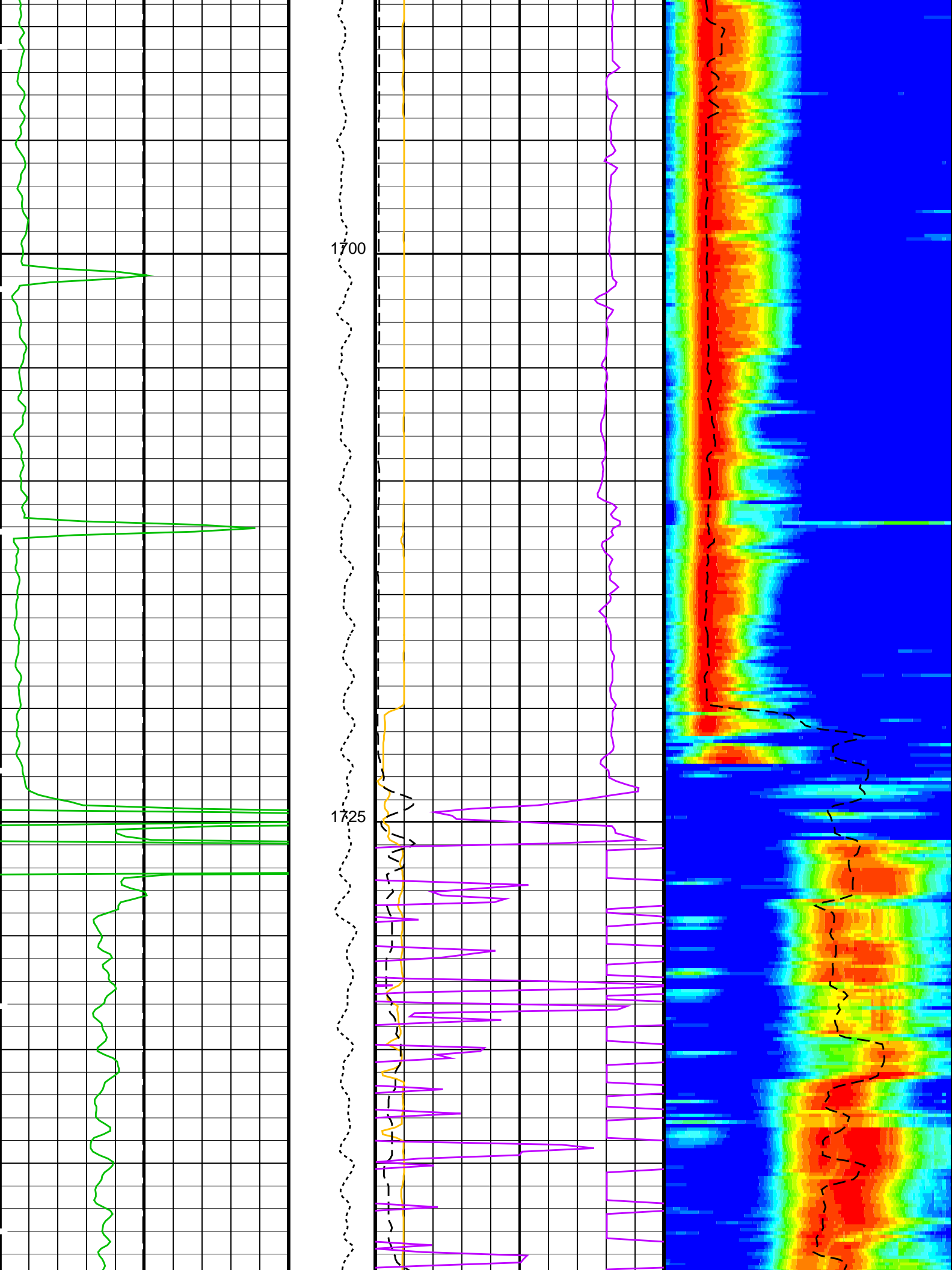
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HNGS-BA        19C0-187                            EDTC-B            19C0-187

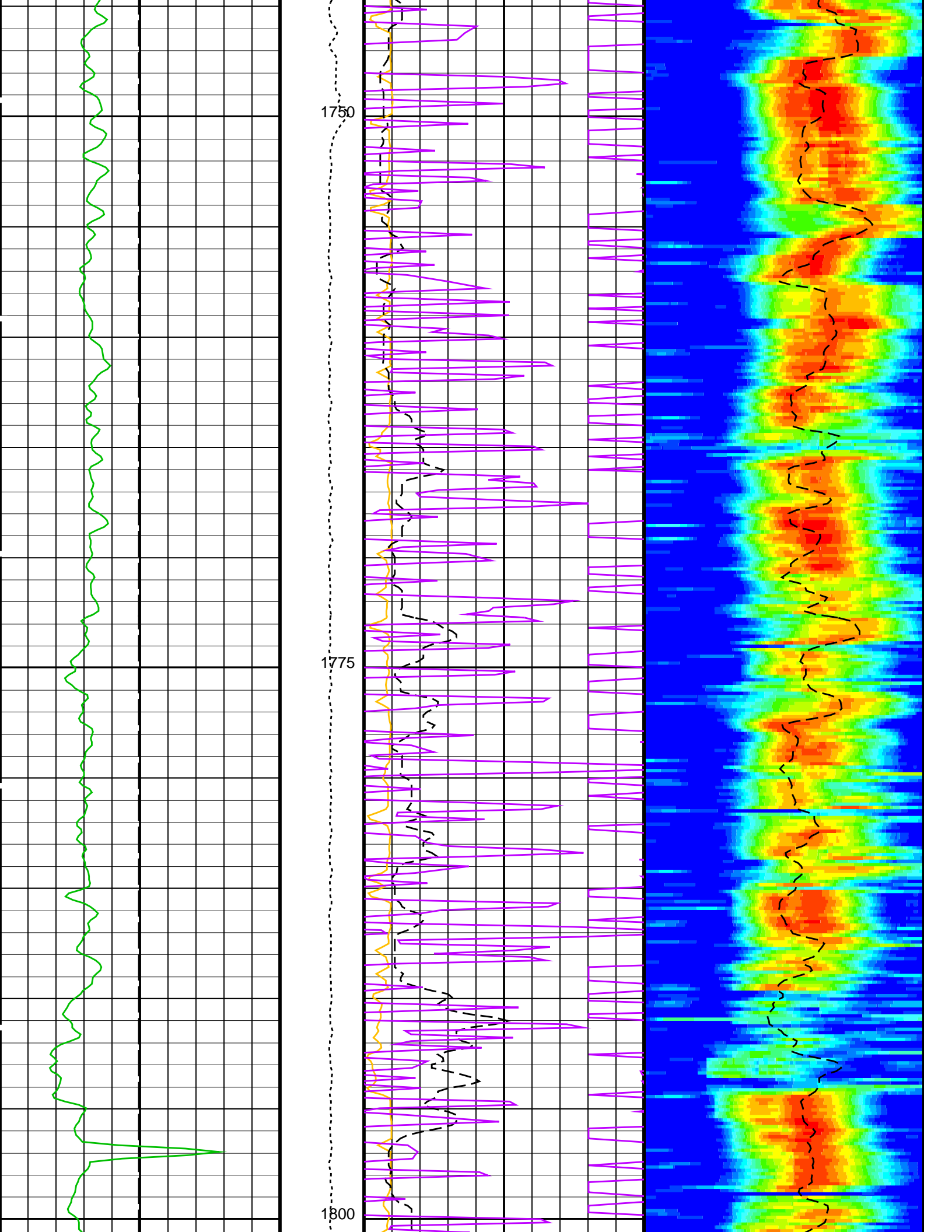
PIP SUMMARY

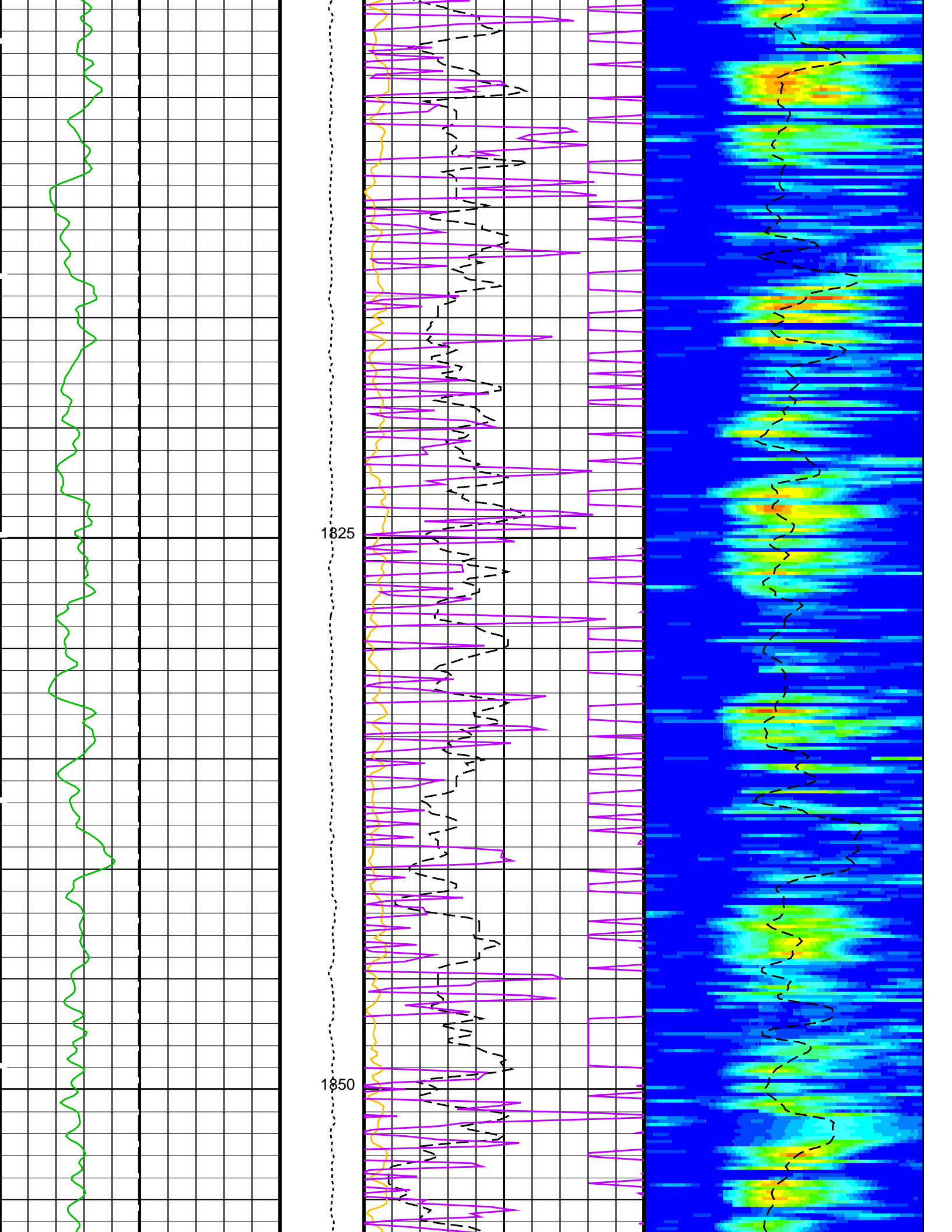
Time Mark Every 60 S

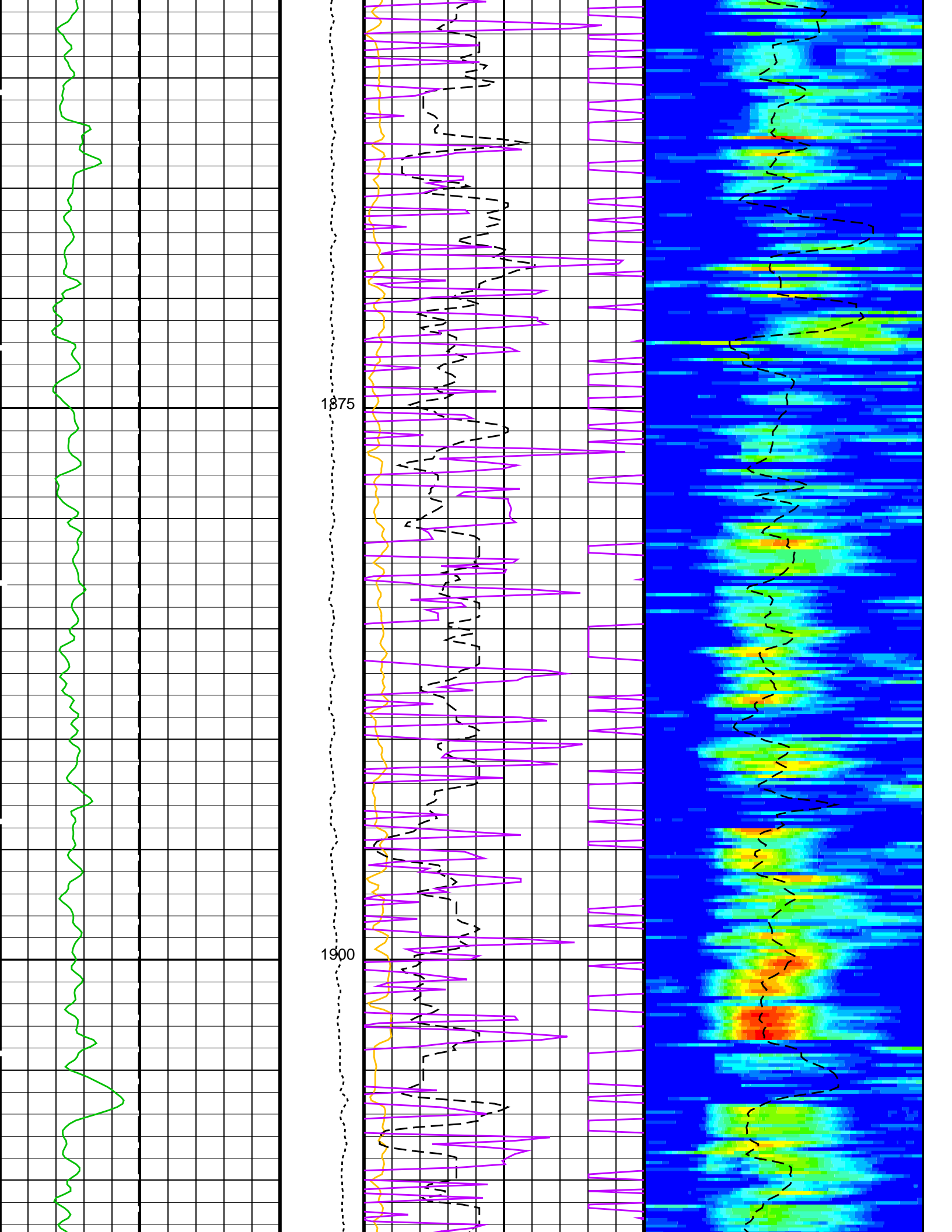


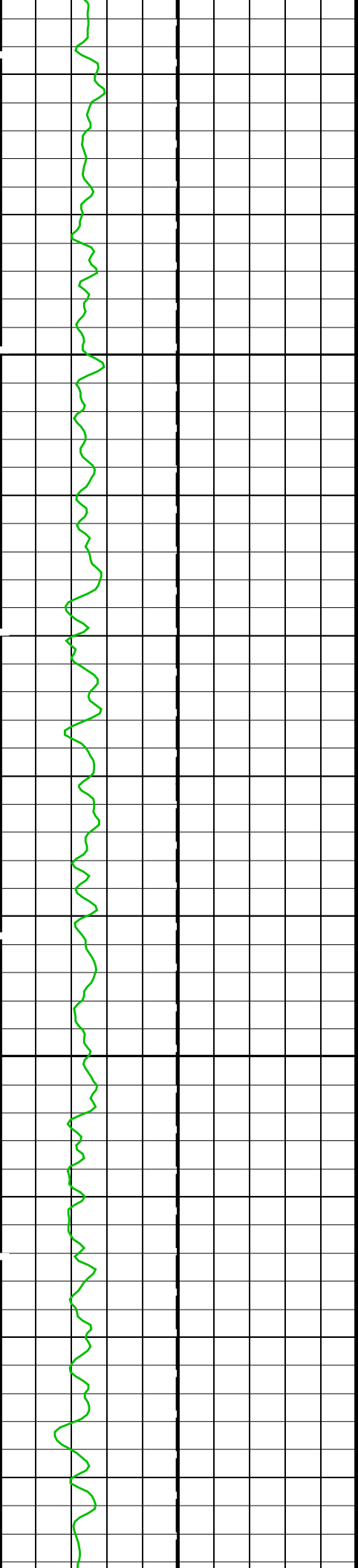






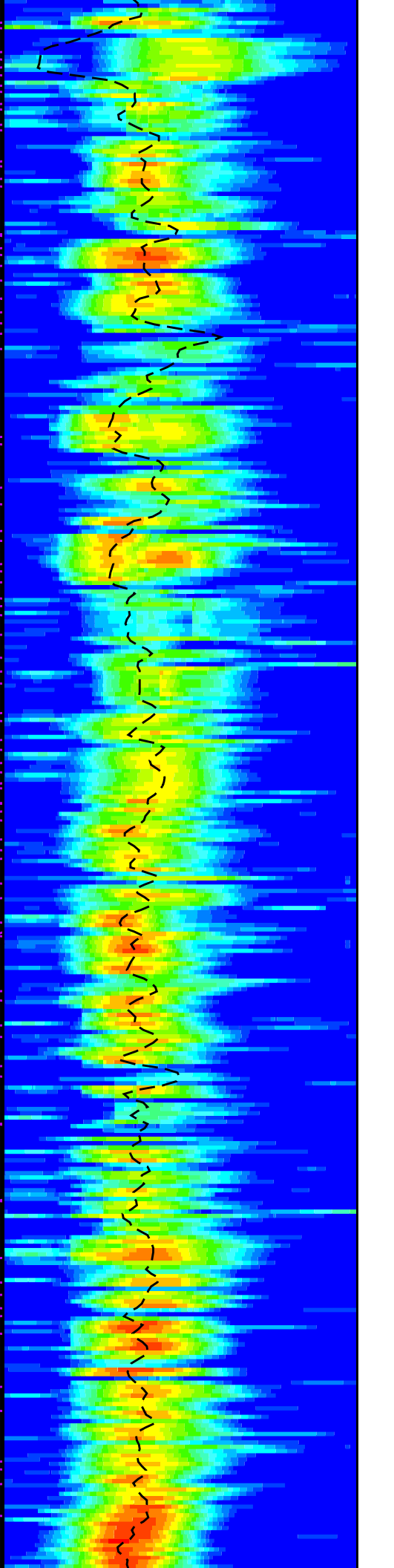
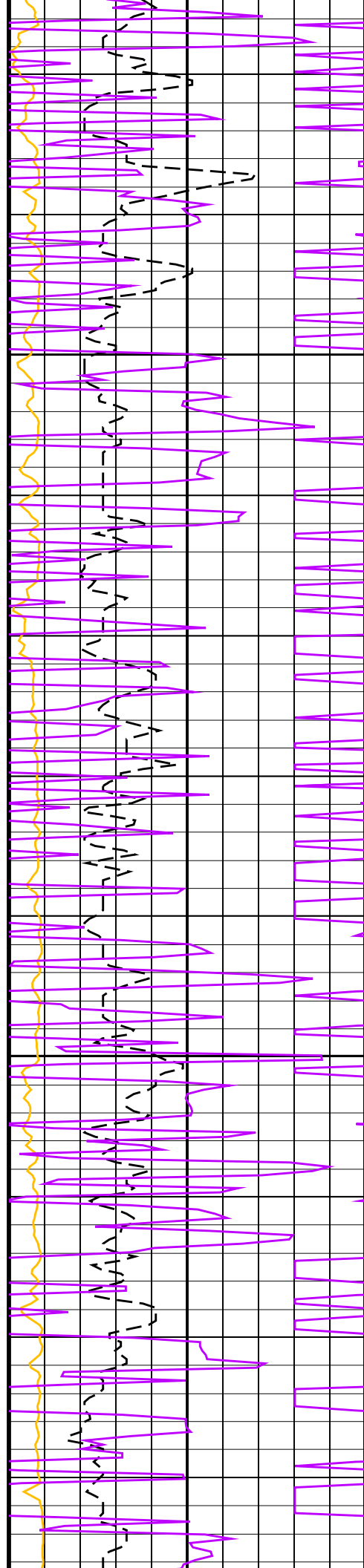


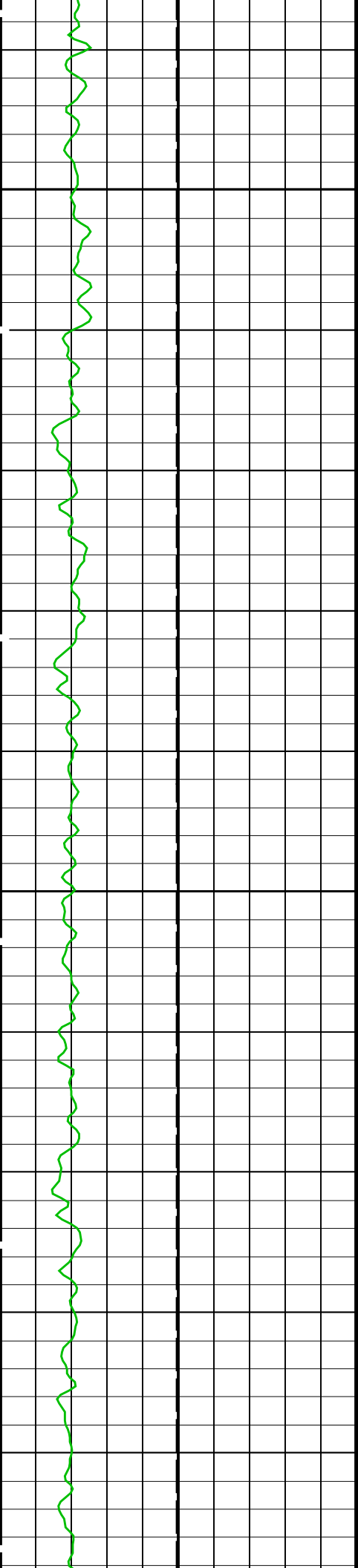




1925

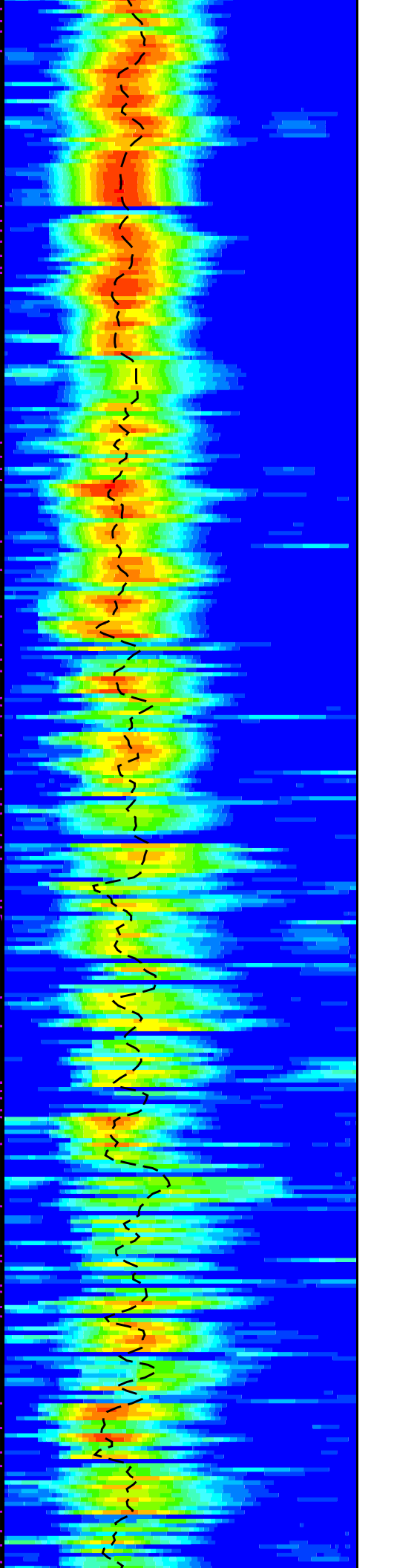
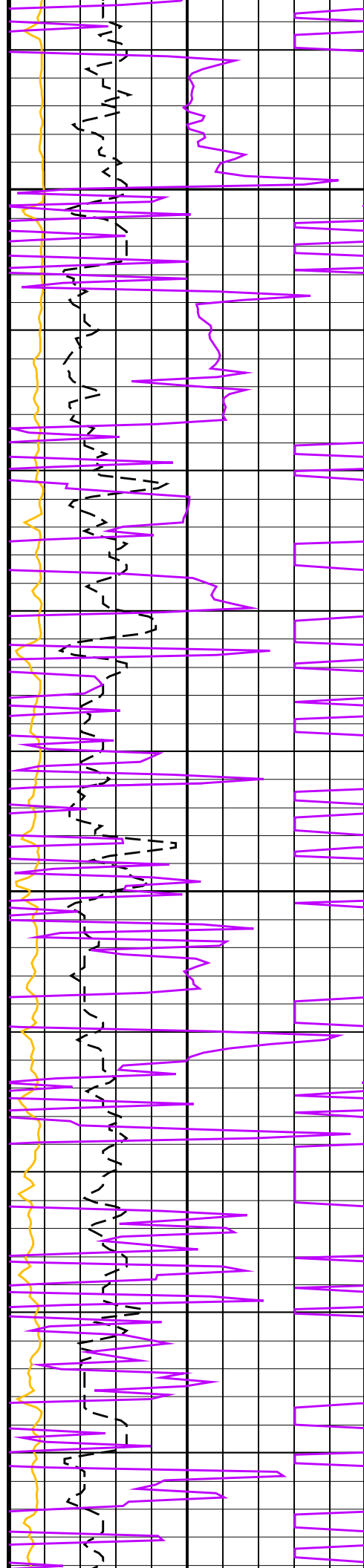
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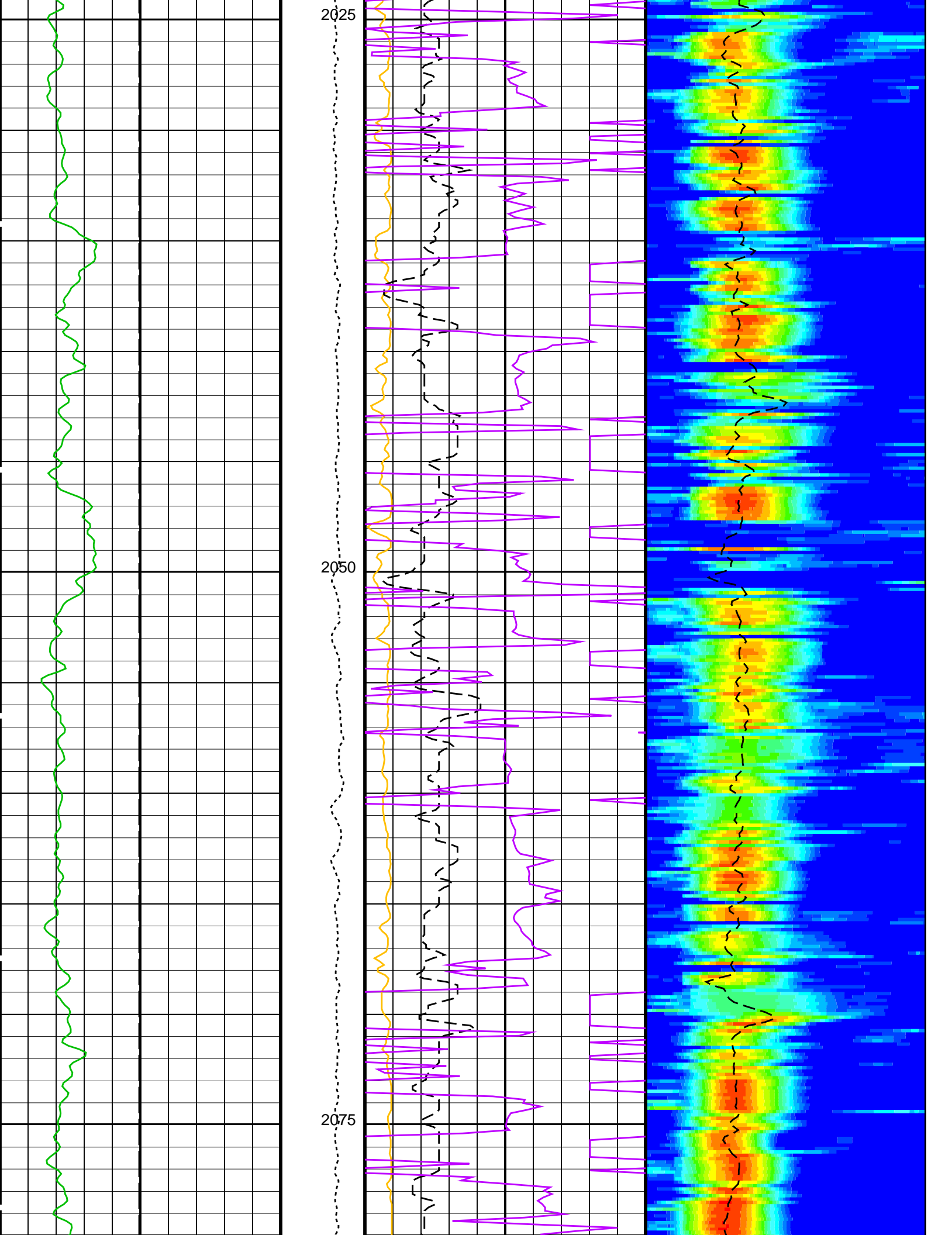


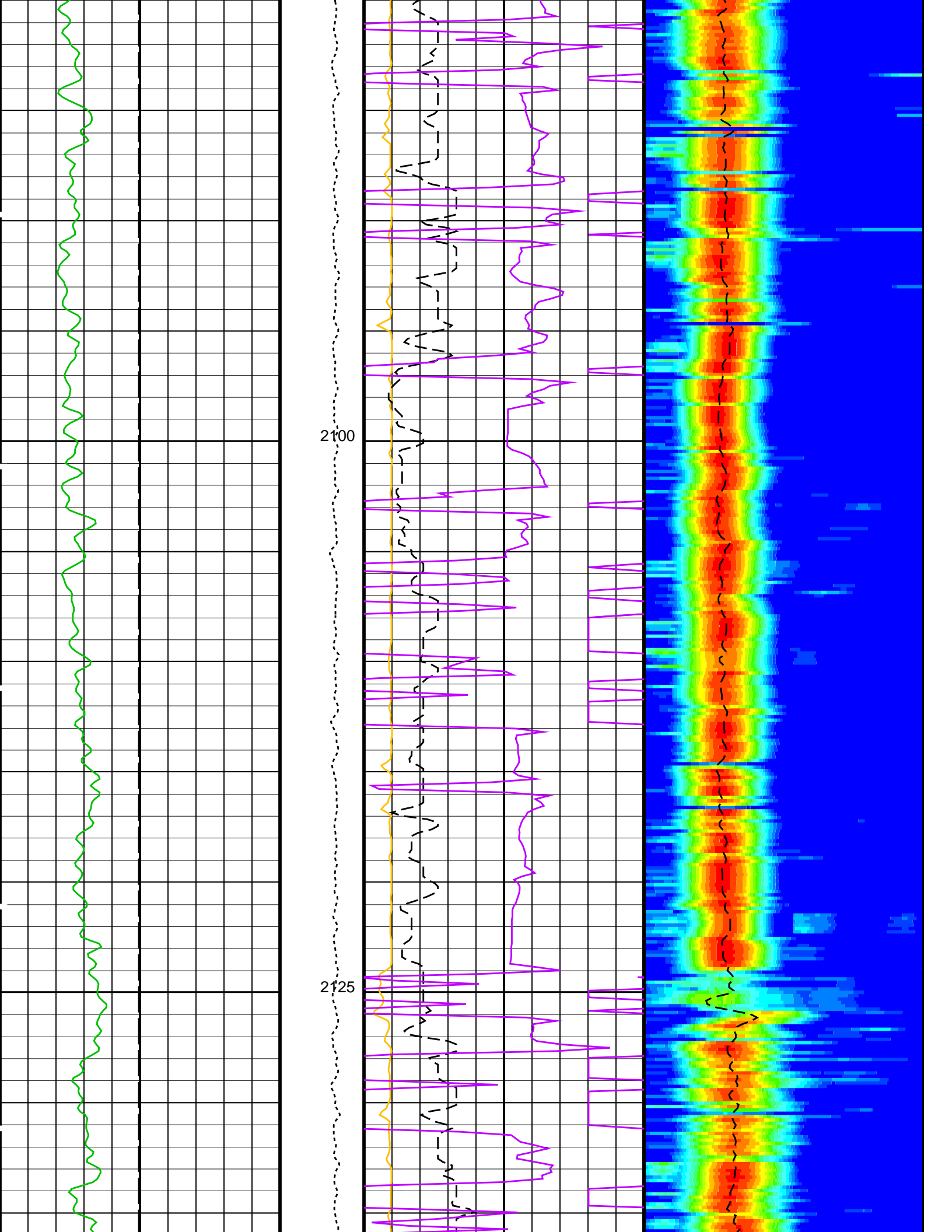


1975

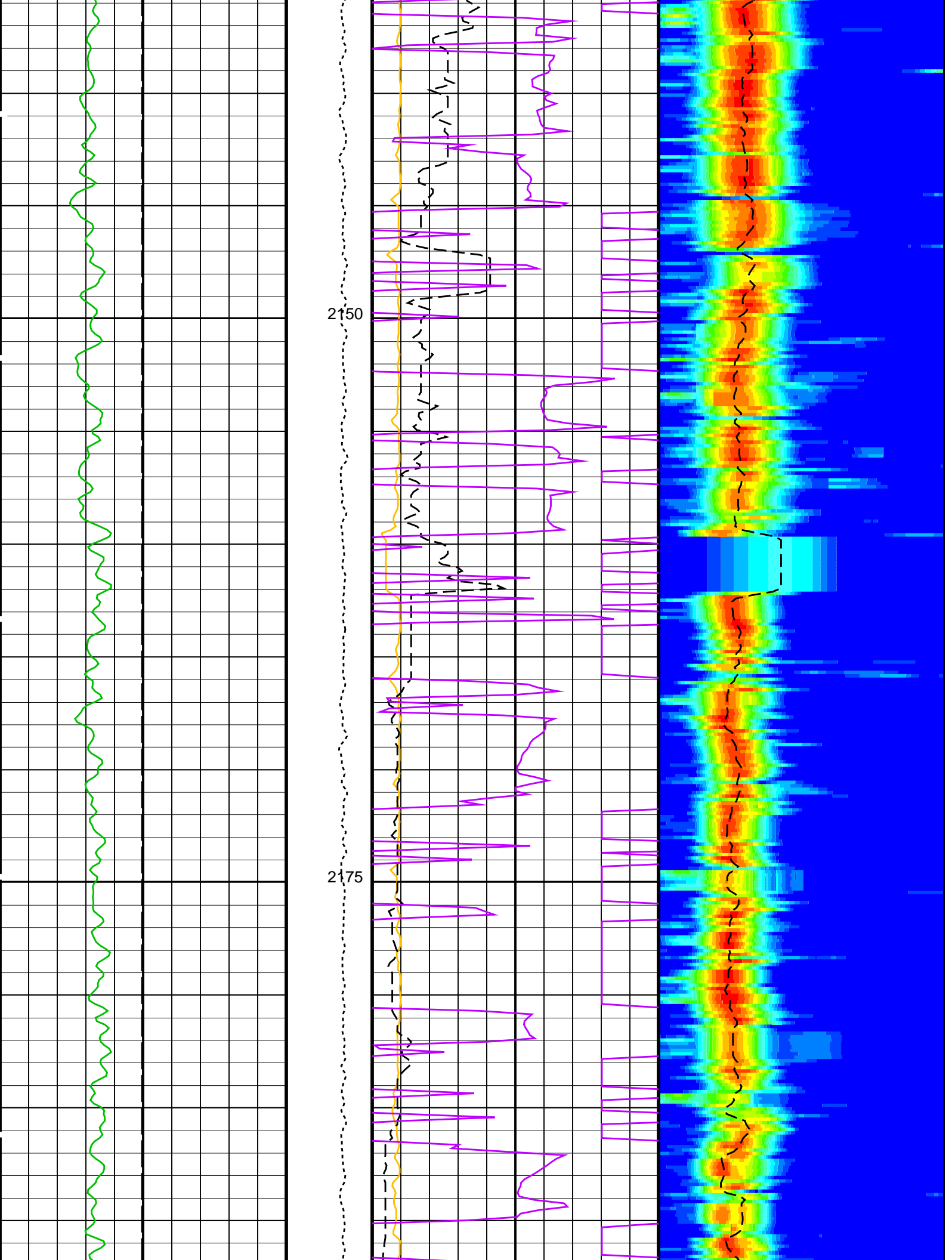
2000

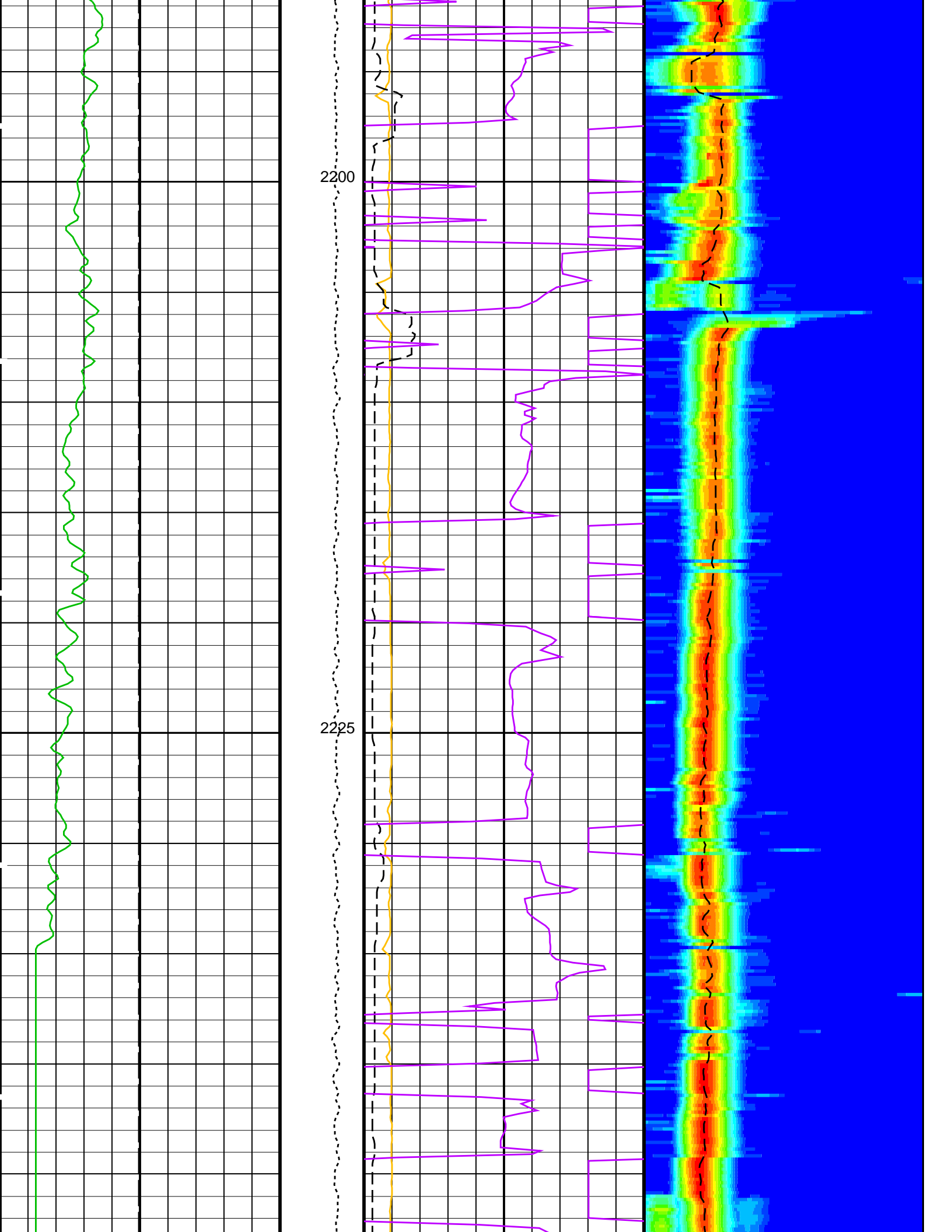


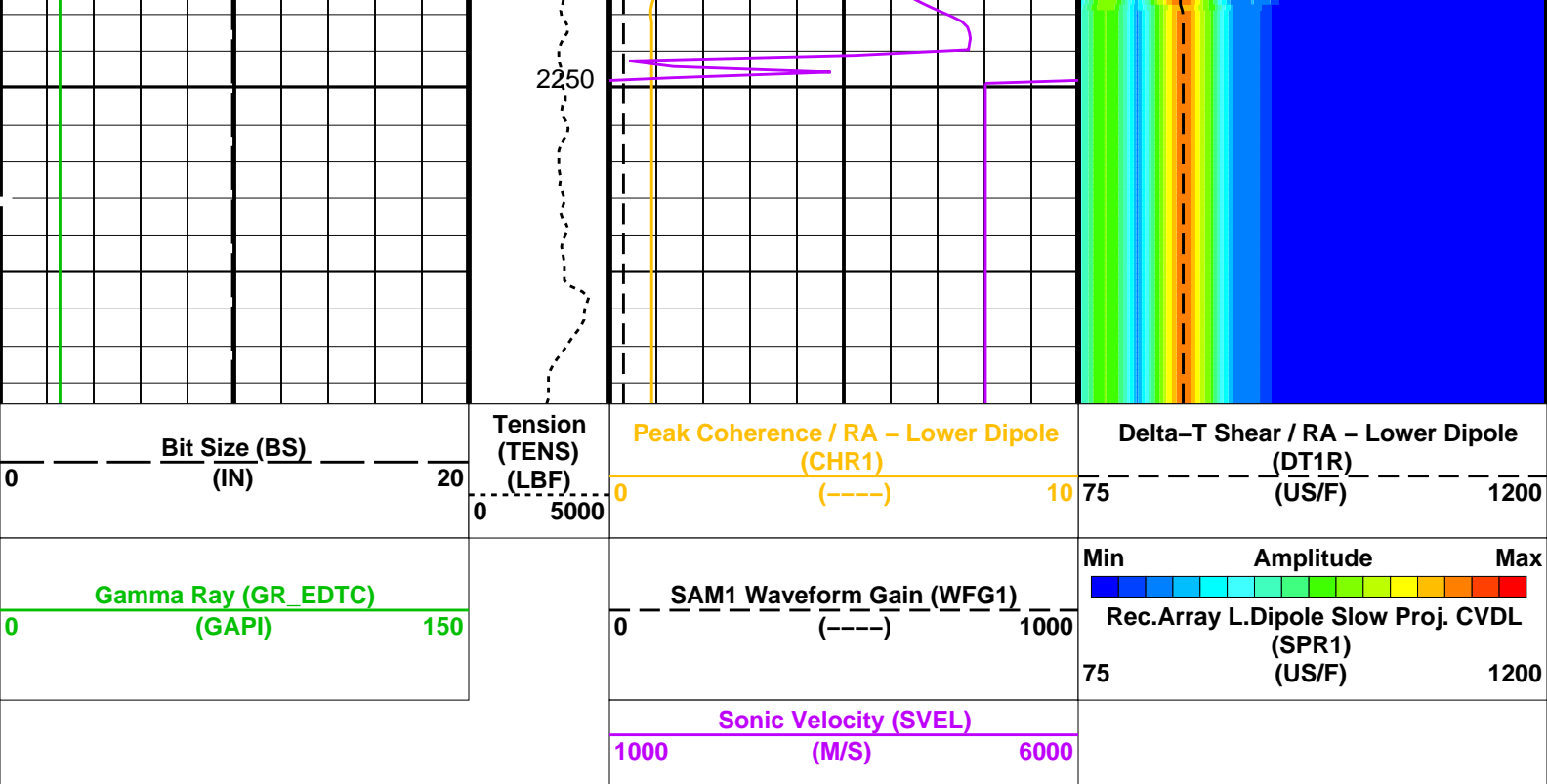












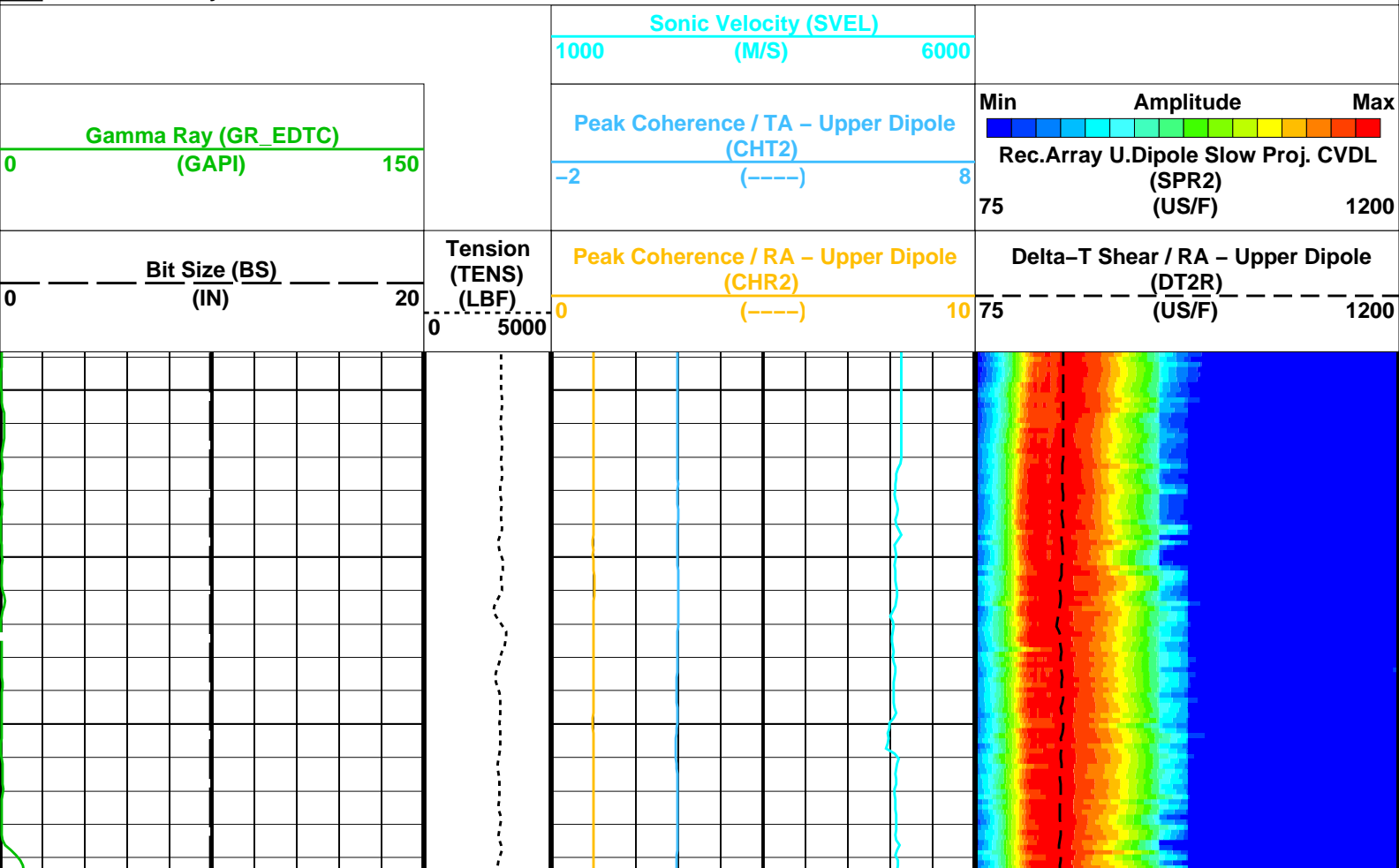
### PIP SUMMARY

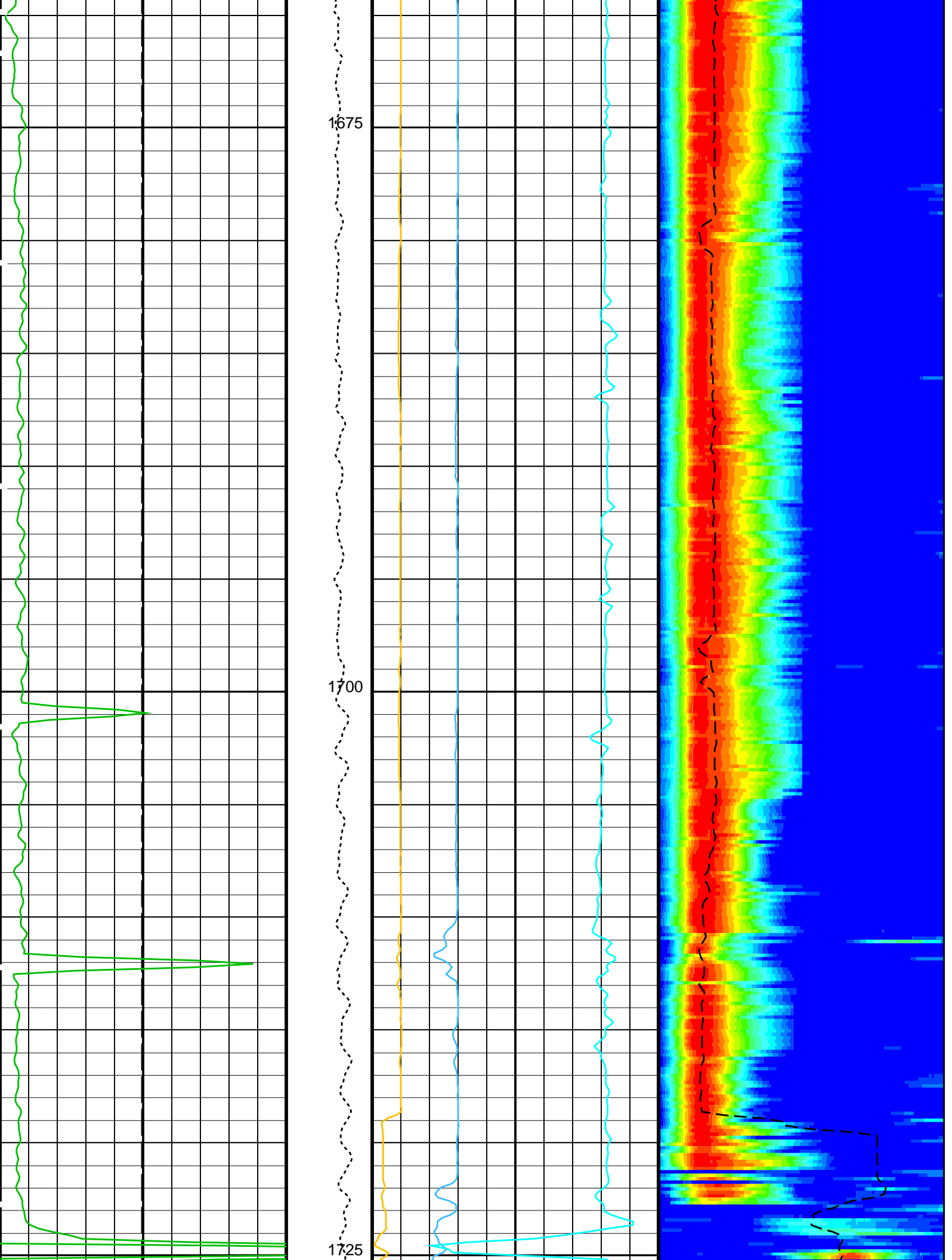
Time Mark Every 60 S

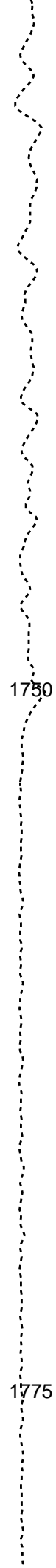
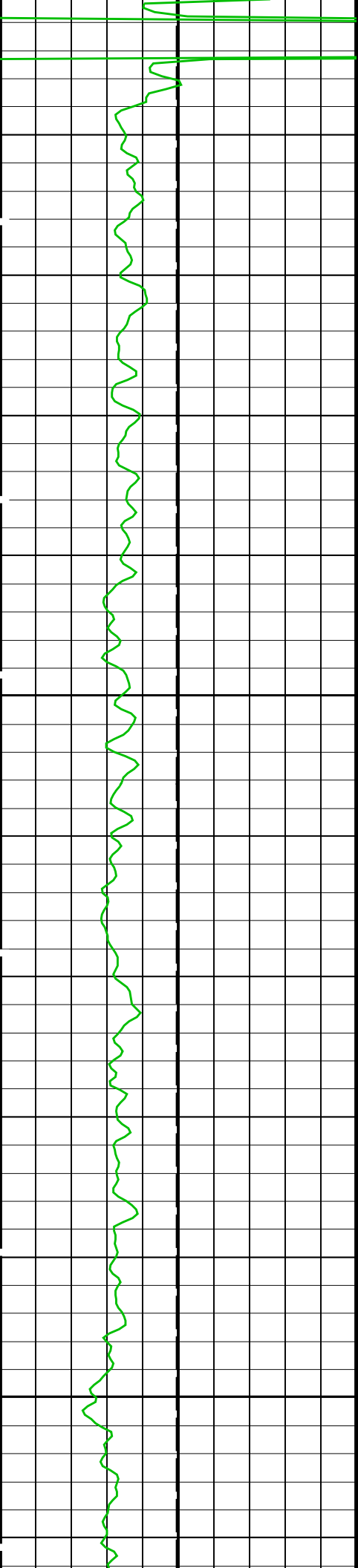
## Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
DDE1	Digitizing Delay 1	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	40	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1000	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SLL1	STC Slowness Lower Limit – Lower Dipole	40	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit – Lower Dipole	1400	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	20440	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	

System and Miscellaneous

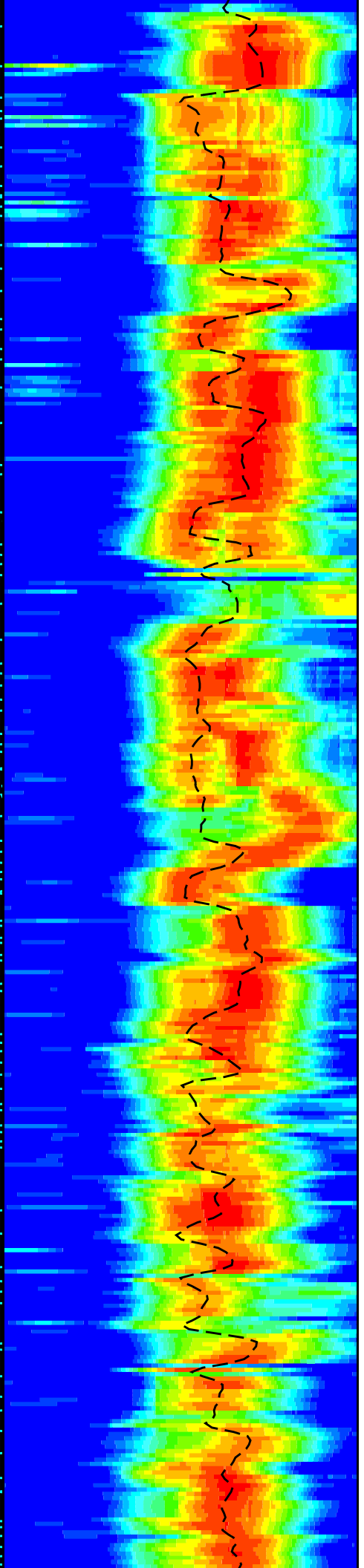
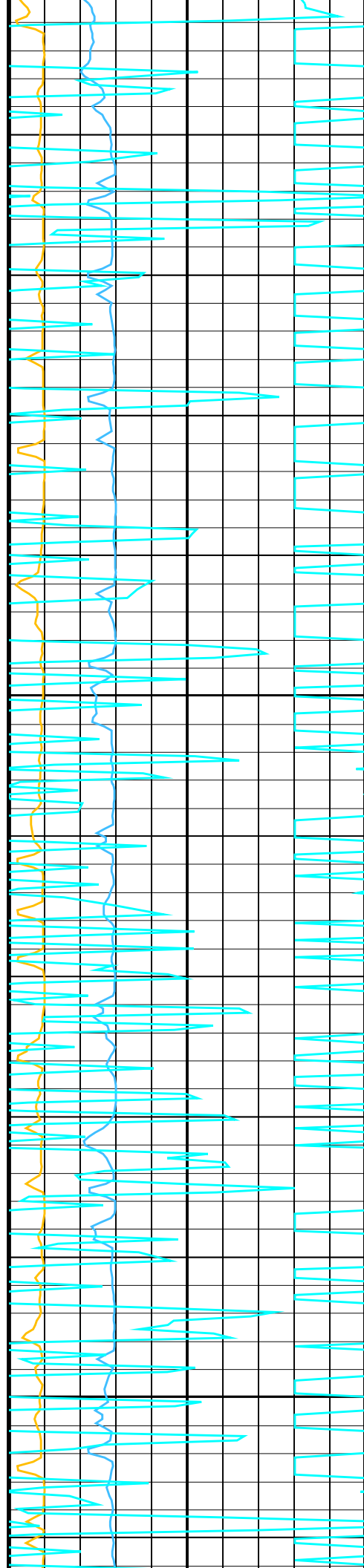


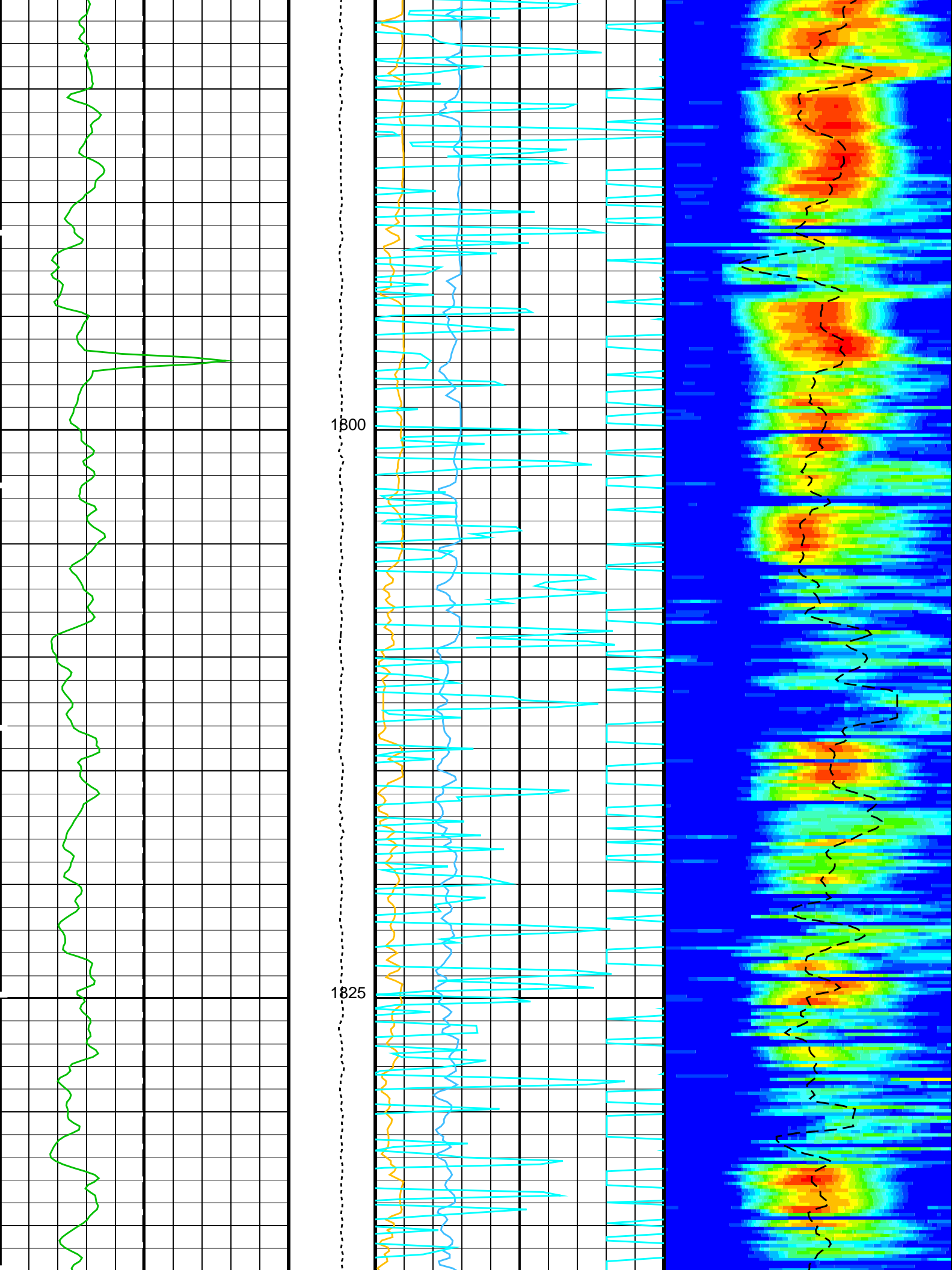


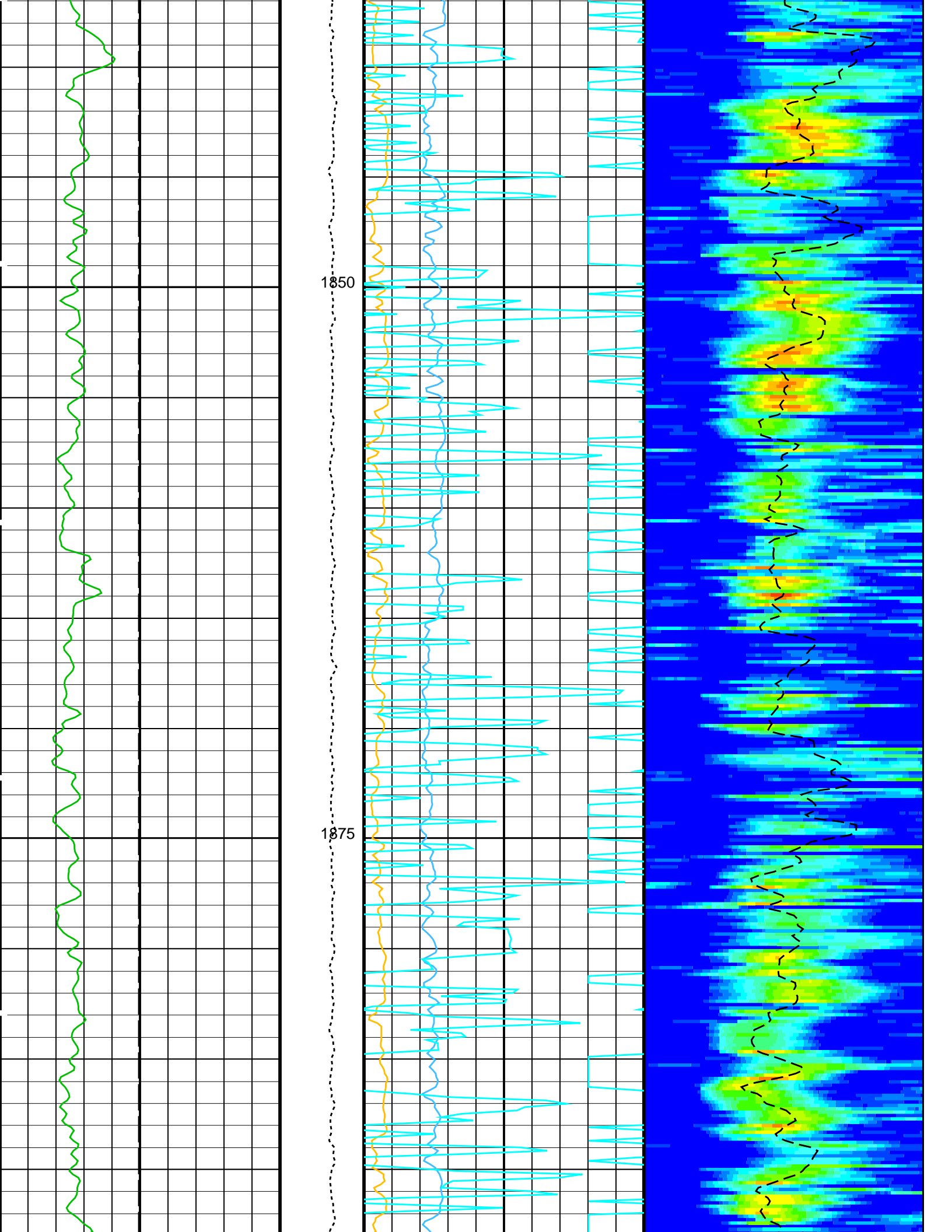


1750

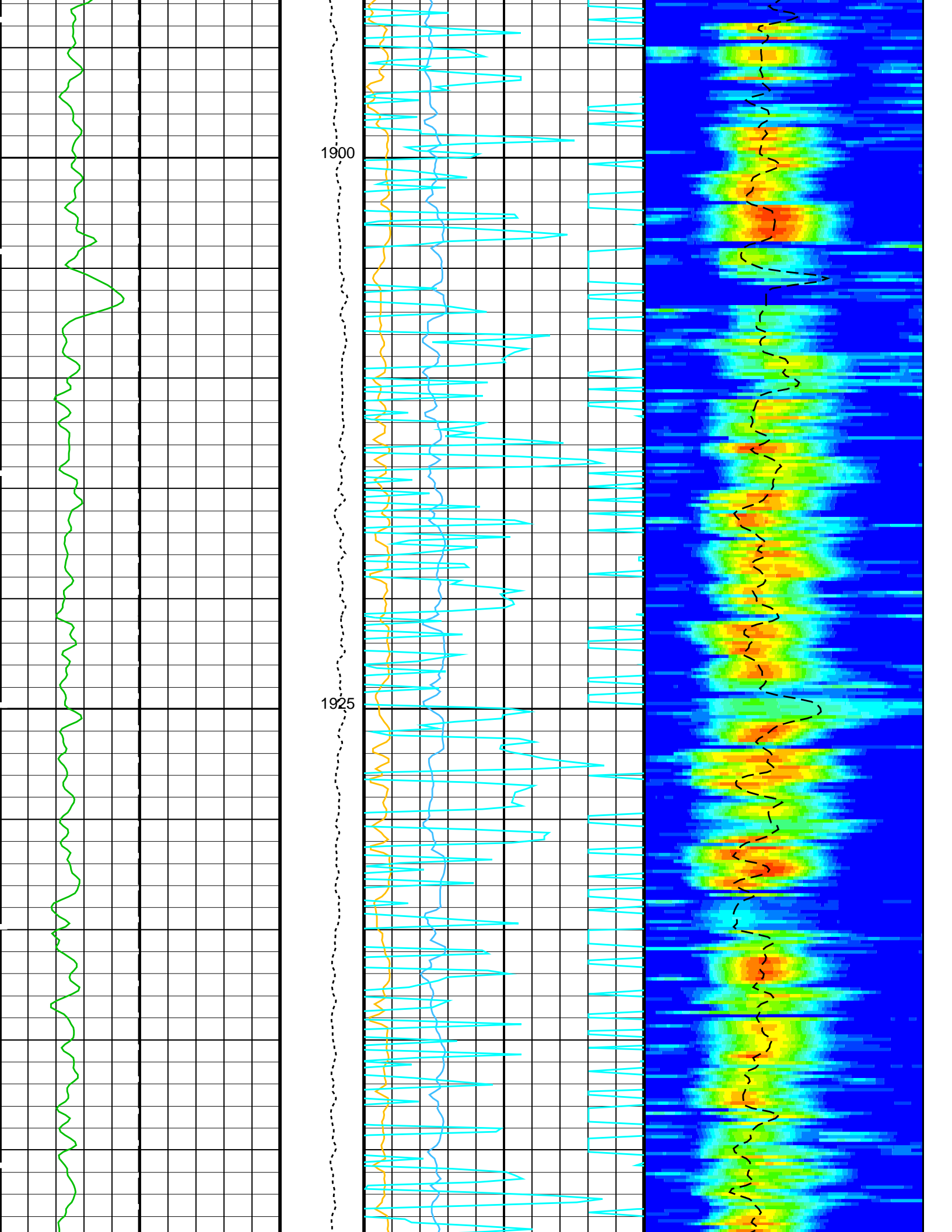
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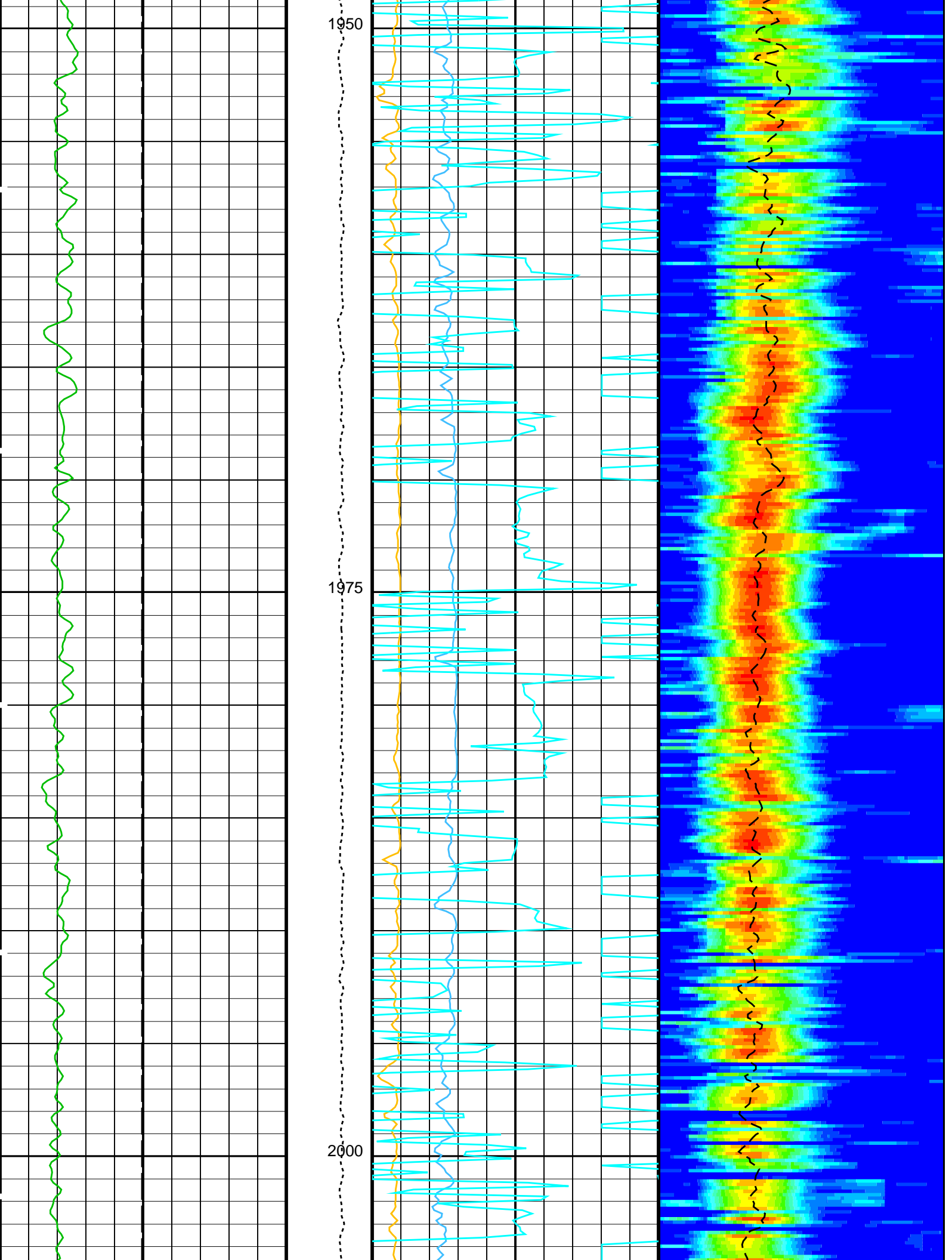


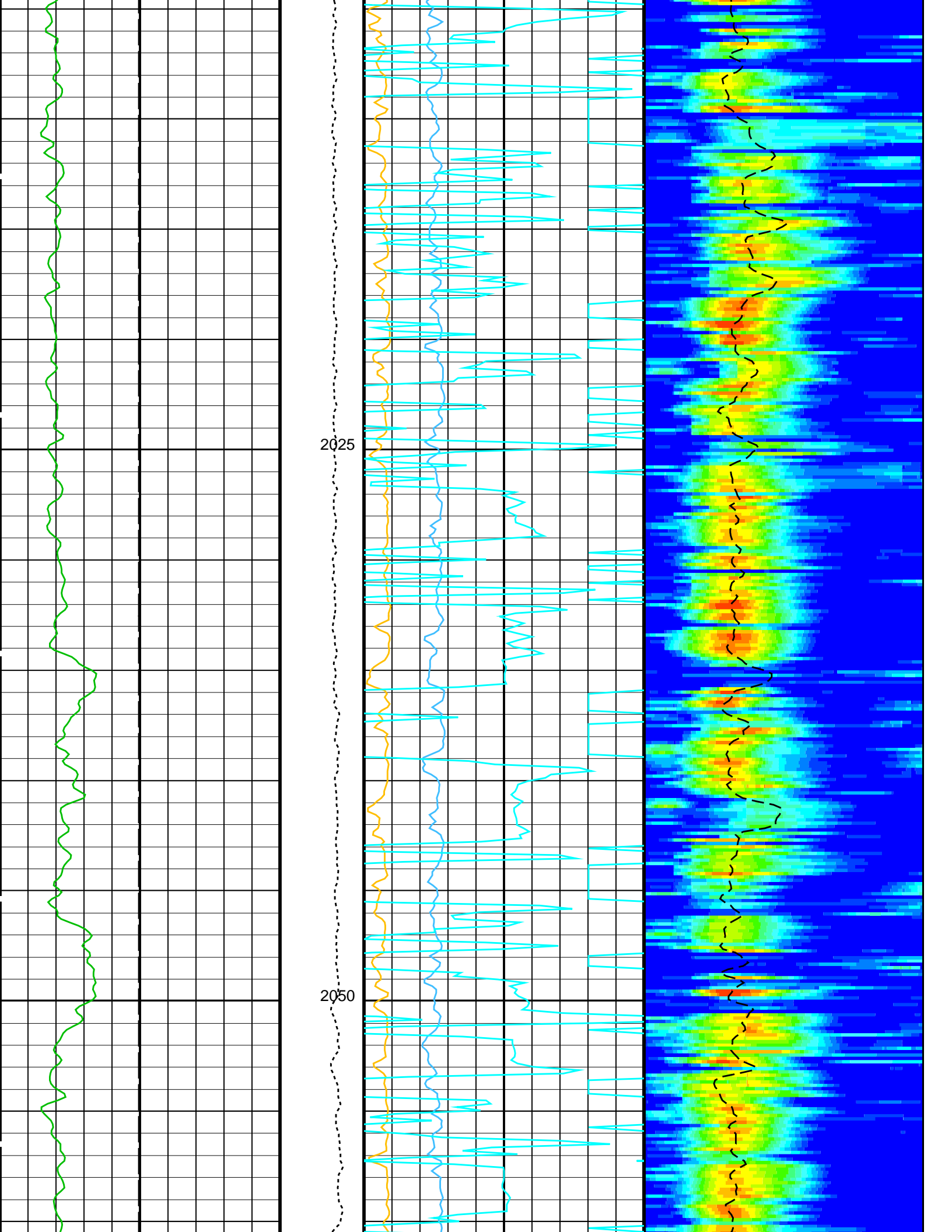


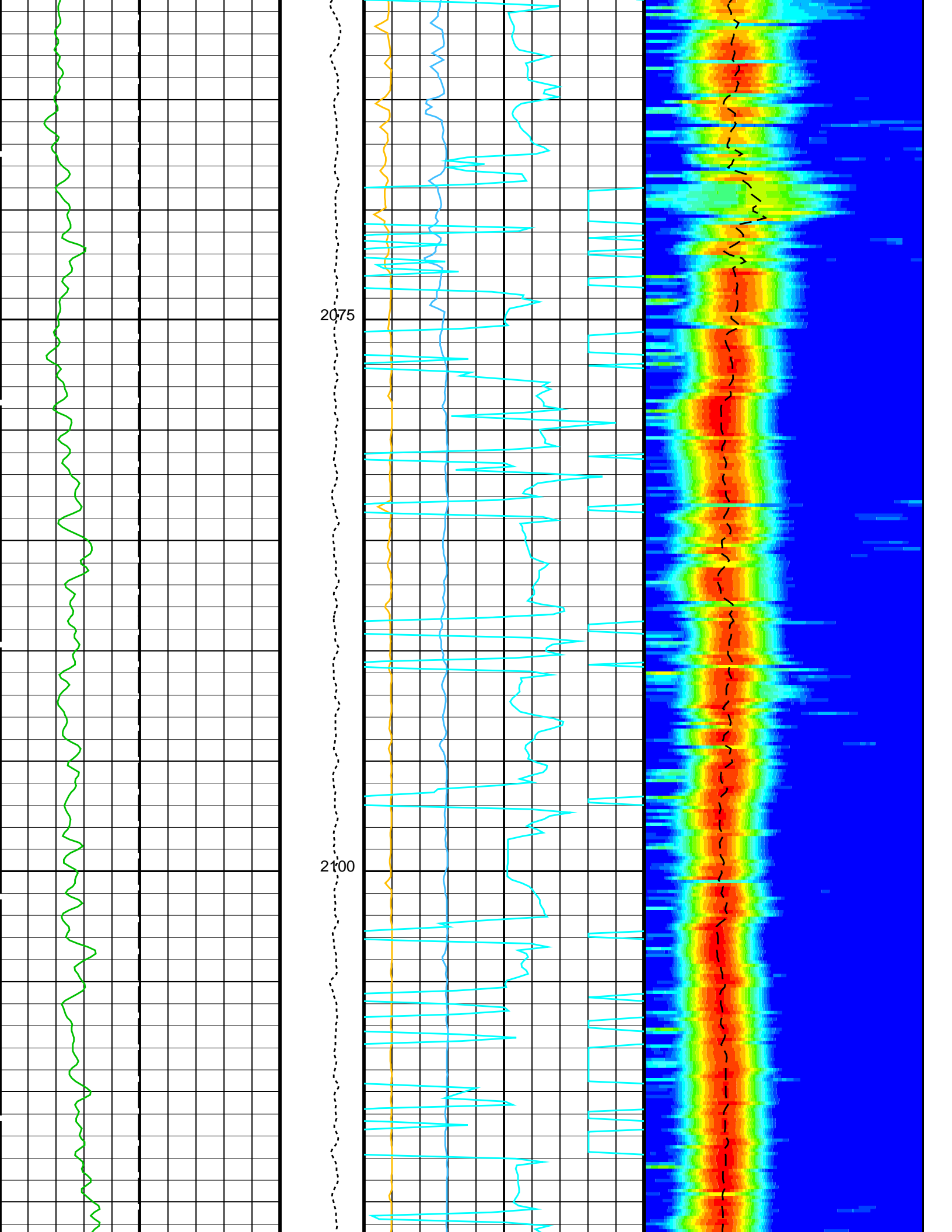


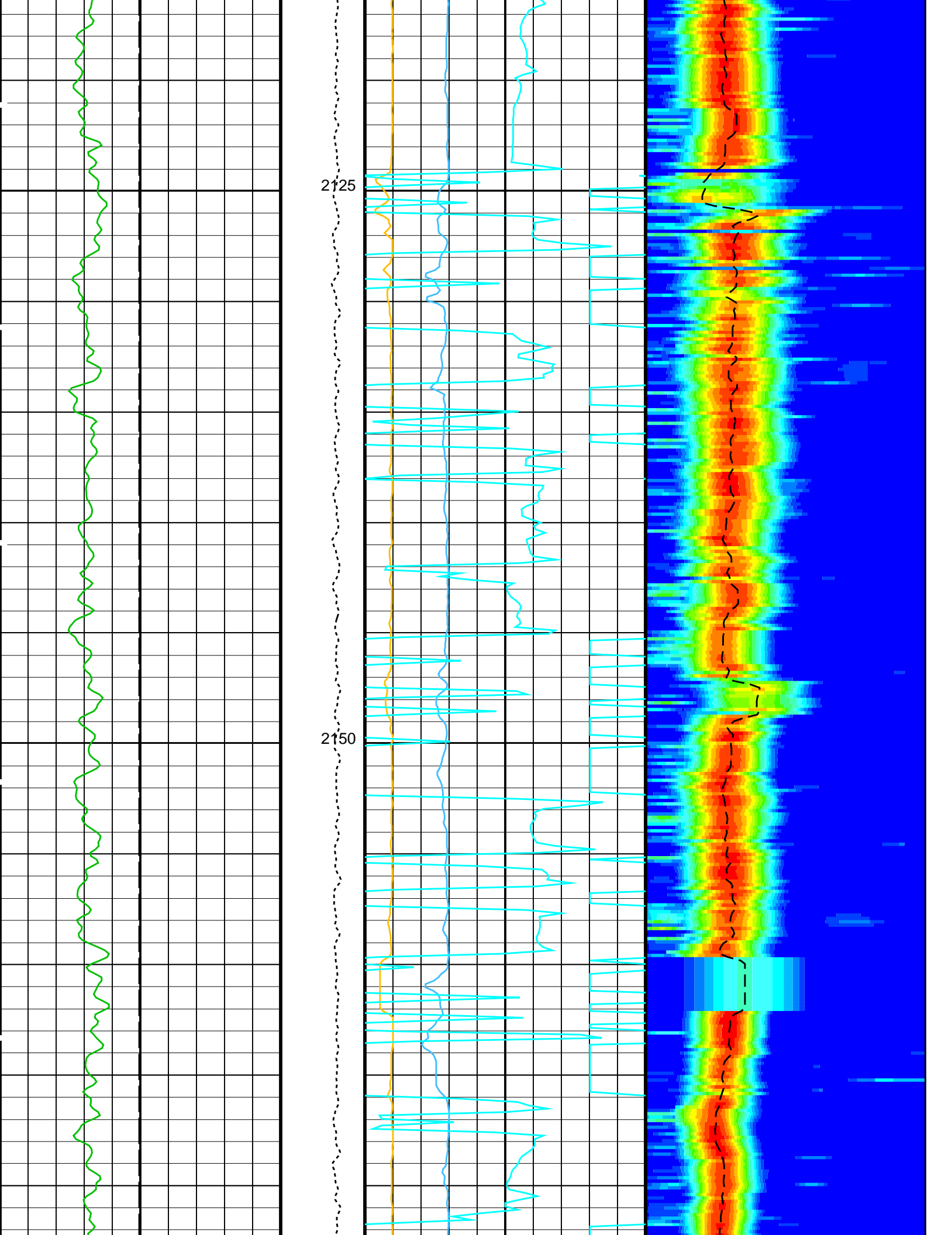


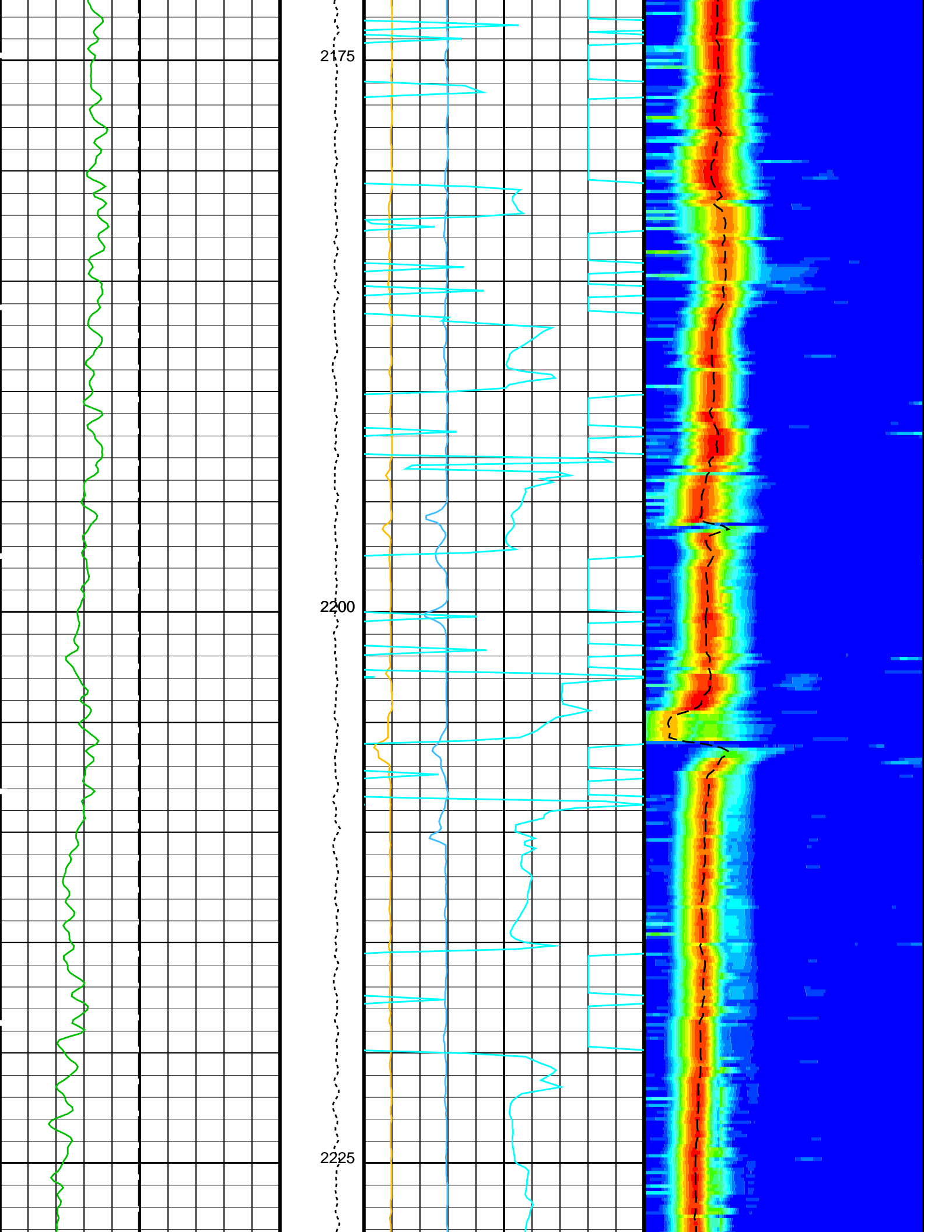


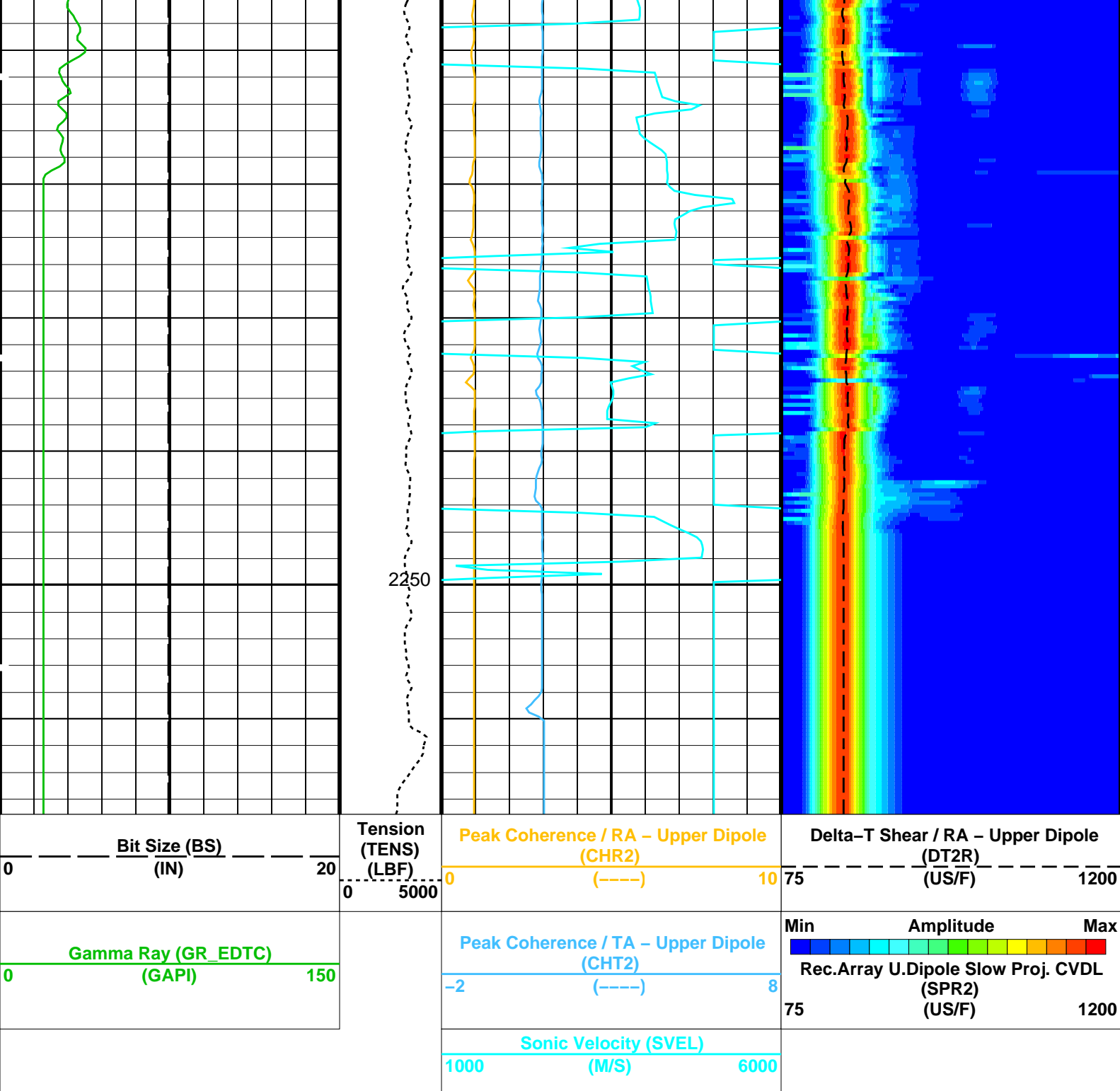












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	40	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1000	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN

RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	LFD_ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B.3–1.5K	
SLL2	STC Slowness Lower Limit – Upper Dipole	40	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit – Upper Dipole	1400	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TST2	STC Time Step – Upper Dipole	200	US
TUL2	STC Time Upper Limit – Upper Dipole	20440	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST\_UPPER\_DIPOLE\_VDL\_COLOR

Vertical Scale: 1:200

Graphics File Created: 24-Dec-2023 17:02

OP System Version: 19C0–187			
DSST–B	19C0–187	HNGC–B	19C0–187
HNGS–BA	19C0–187	EDTC–B	19C0–187

Input DLIS Files						
DEFAULT	DSI_NGS_022LUP	FN:18	PRODUCER	23-Dec-2023 19:28	2258.6 M	1653.8 M
Output DLIS Files						
DEFAULT	DSI_NGS_034PUP	FN:27	PRODUCER	24-Dec-2023 17:02		

Company: International Ocean Discovery Program	Well: Expedition 401, Site U1609A
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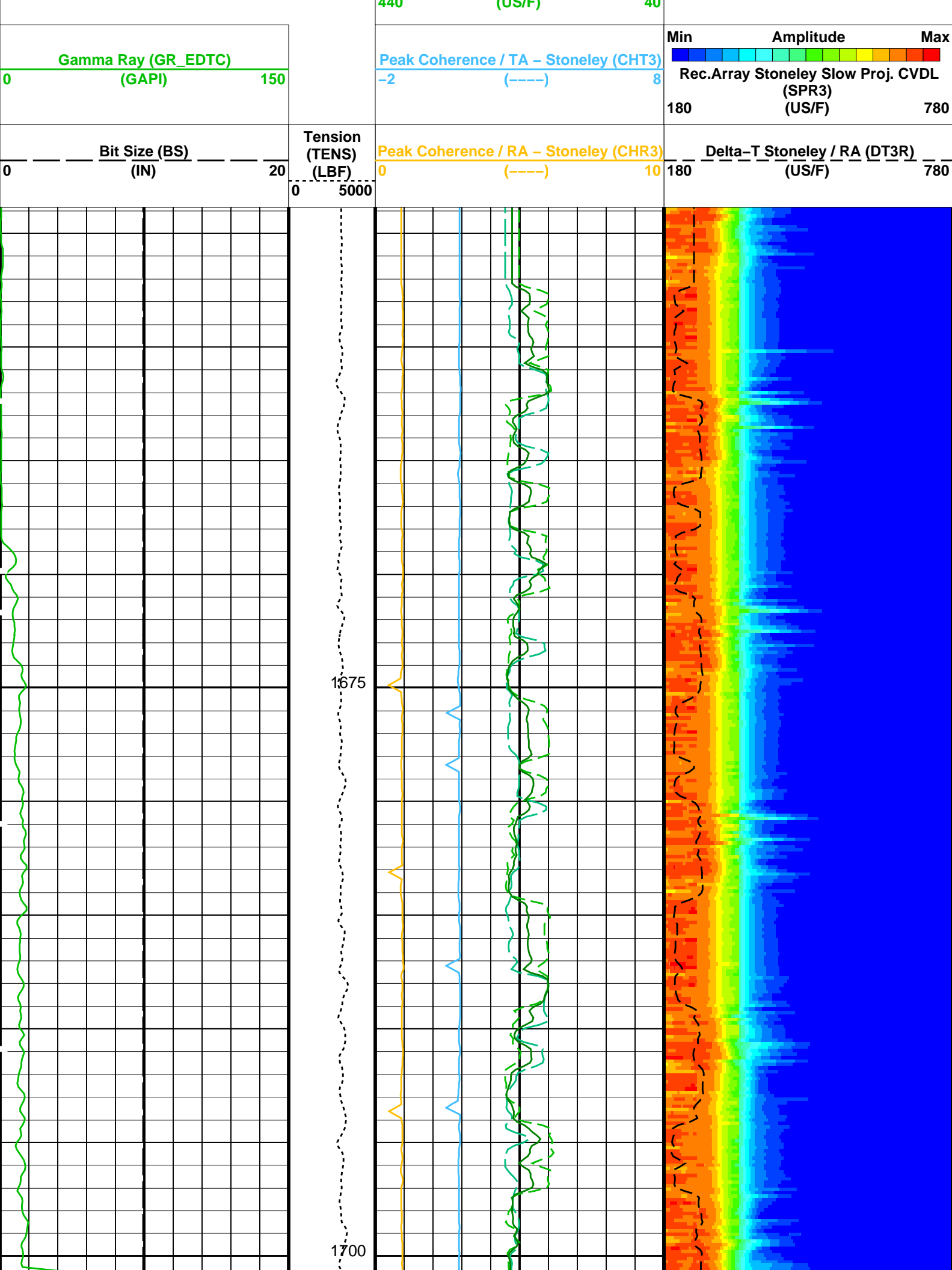
Input DLIS Files						
DEFAULT	DSI_NGS_022LUP	FN:18	PRODUCER	23-Dec-2023 19:28	2258.6 M	1653.8 M
Output DLIS Files						
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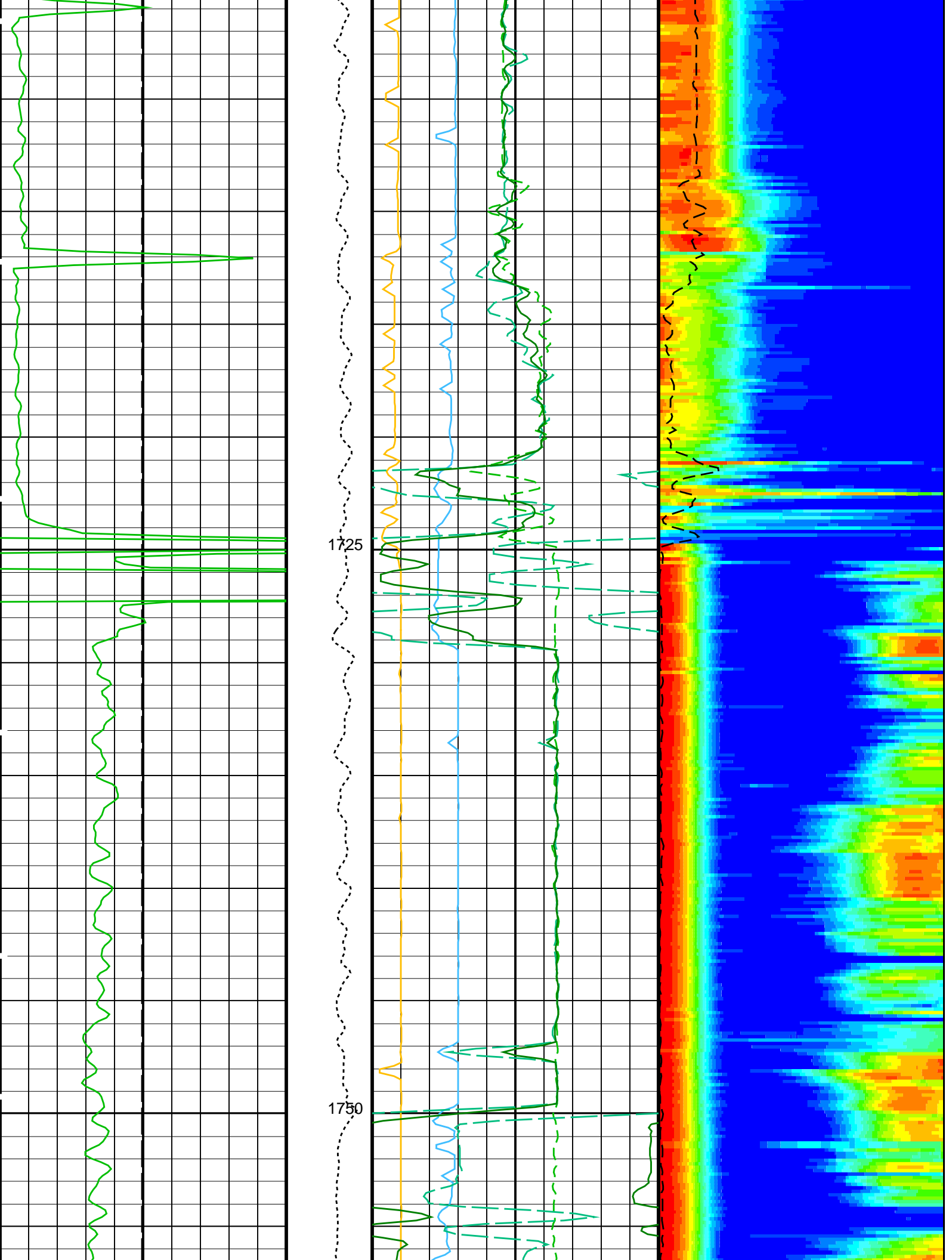
OP System Version: 19C0–187			
DSST–B	19C0–187	HNGC–B	19C0–187
HNGS–BA	19C0–187	EDTC–B	19C0–187

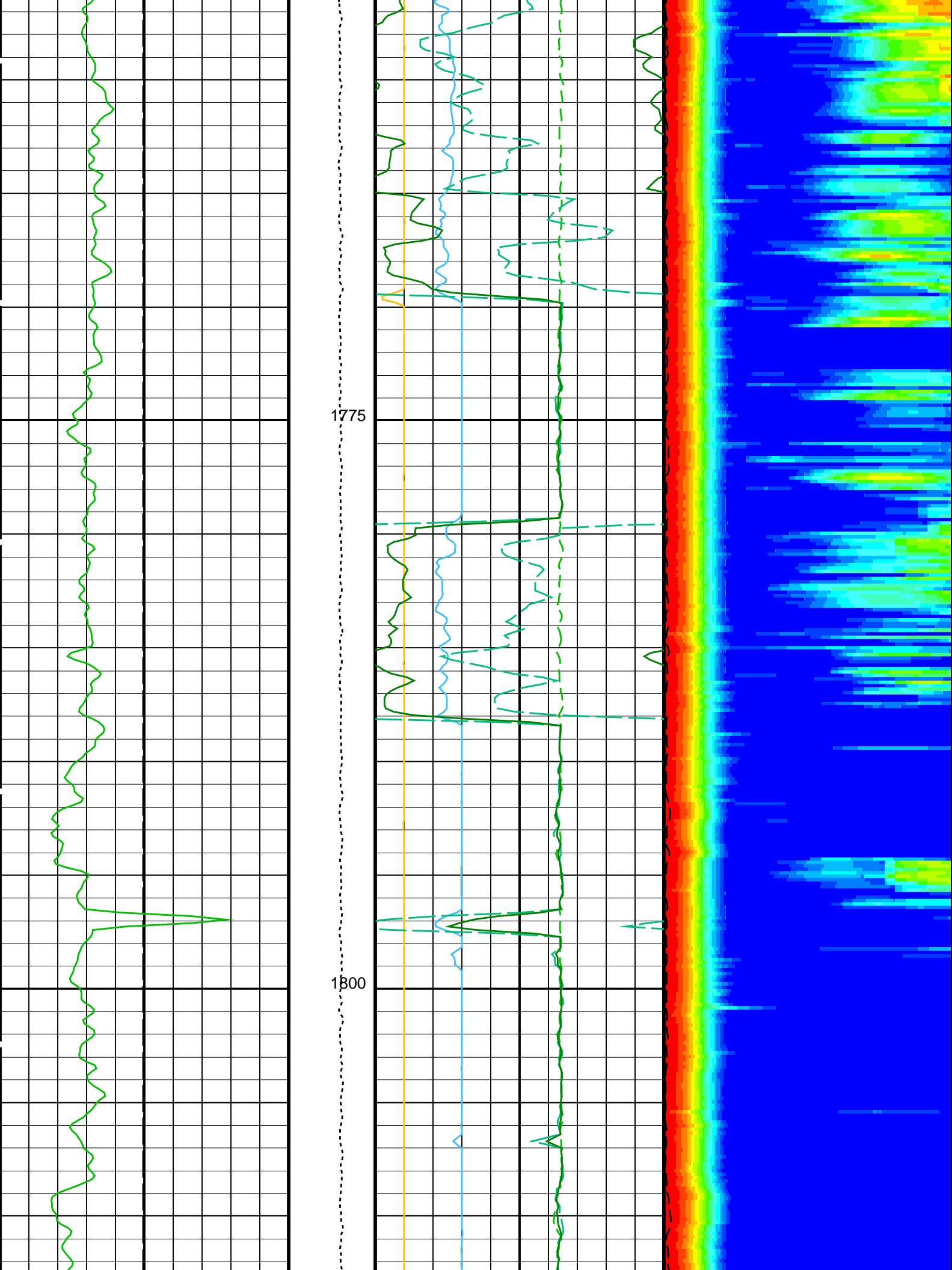
PIP SUMMARY	
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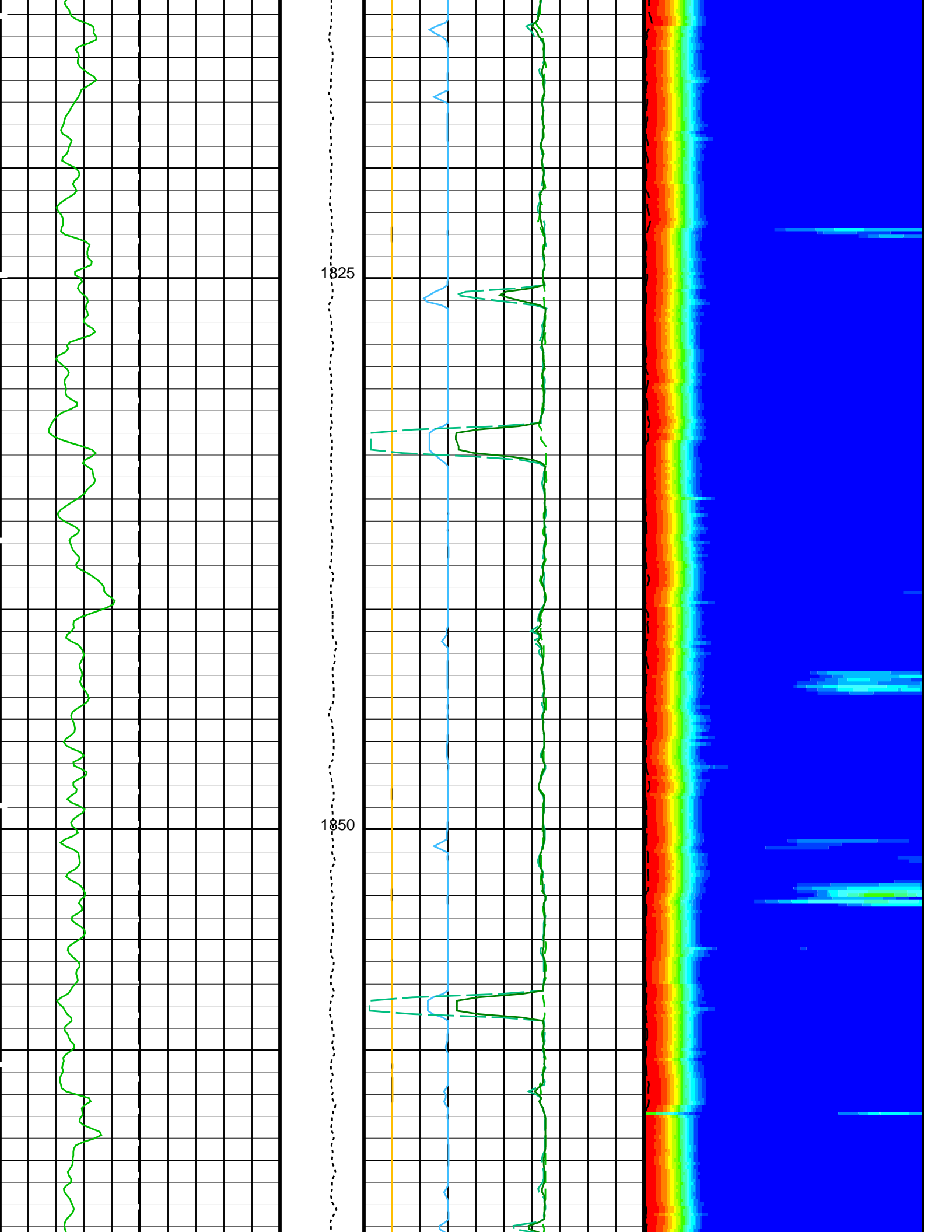
	Delta–T Stoneley (DTST)	
440	(US/F)	40
	Delta–T Stoneley / TA (DT3T)	
440	(US/F)	40
	Delta–T Stoneley / RA (DT3R)	
440	(US/F)	40

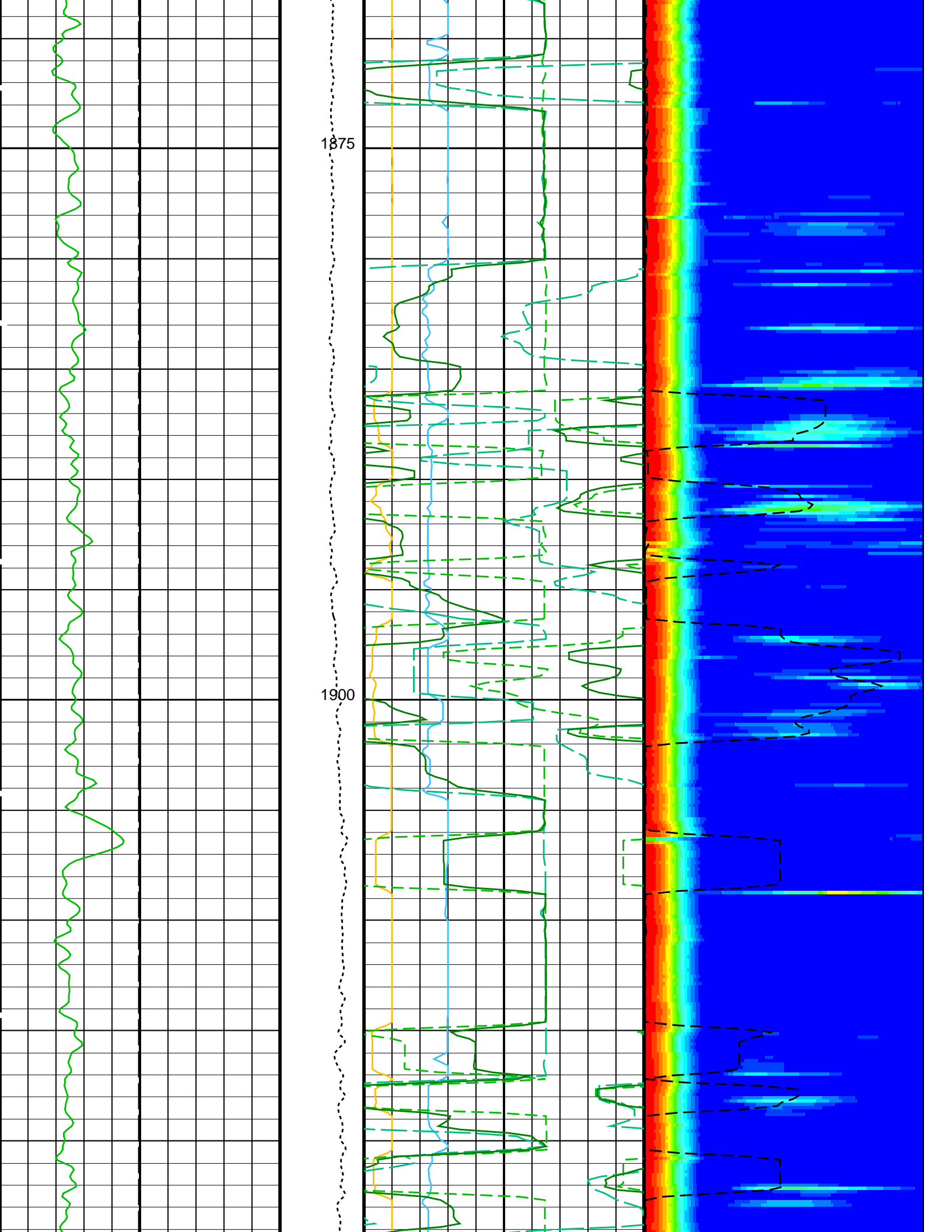


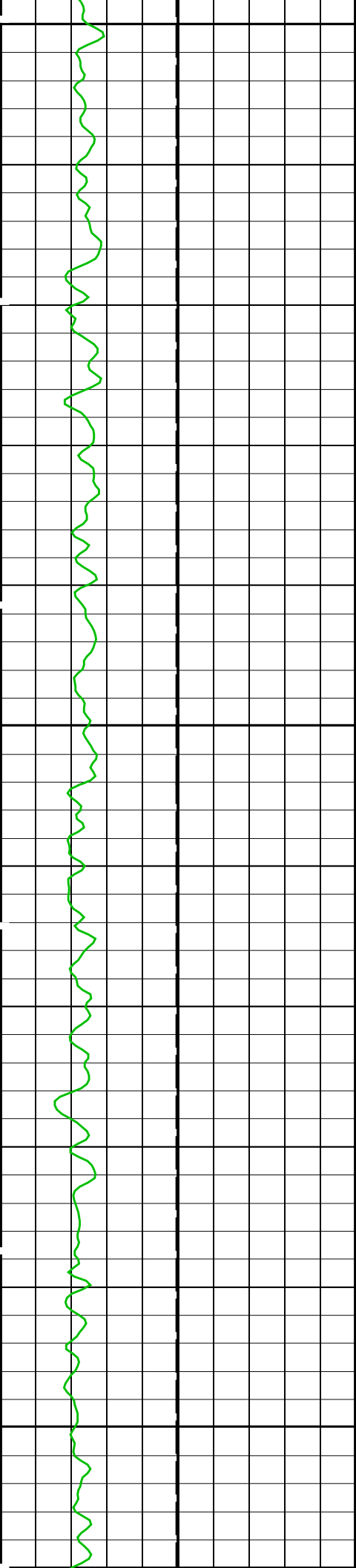








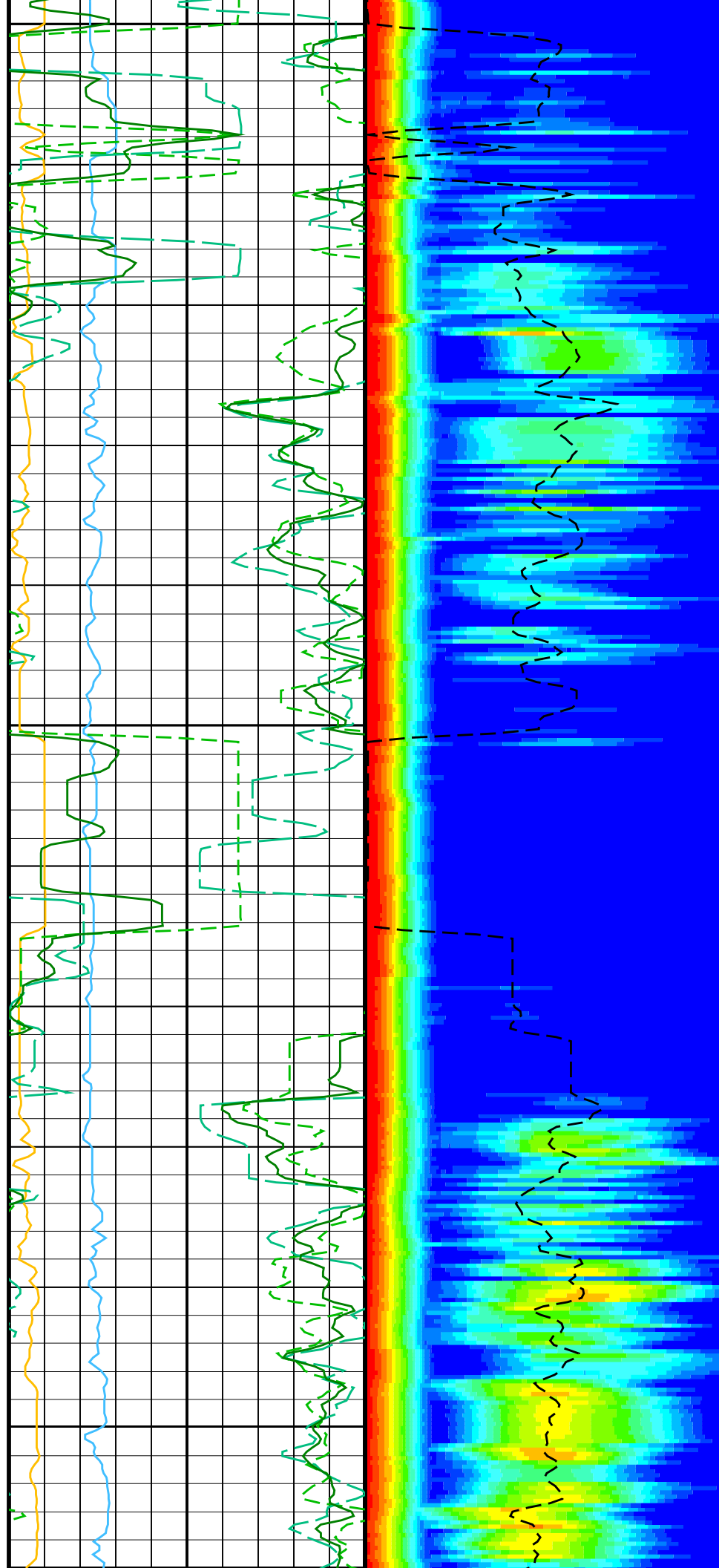


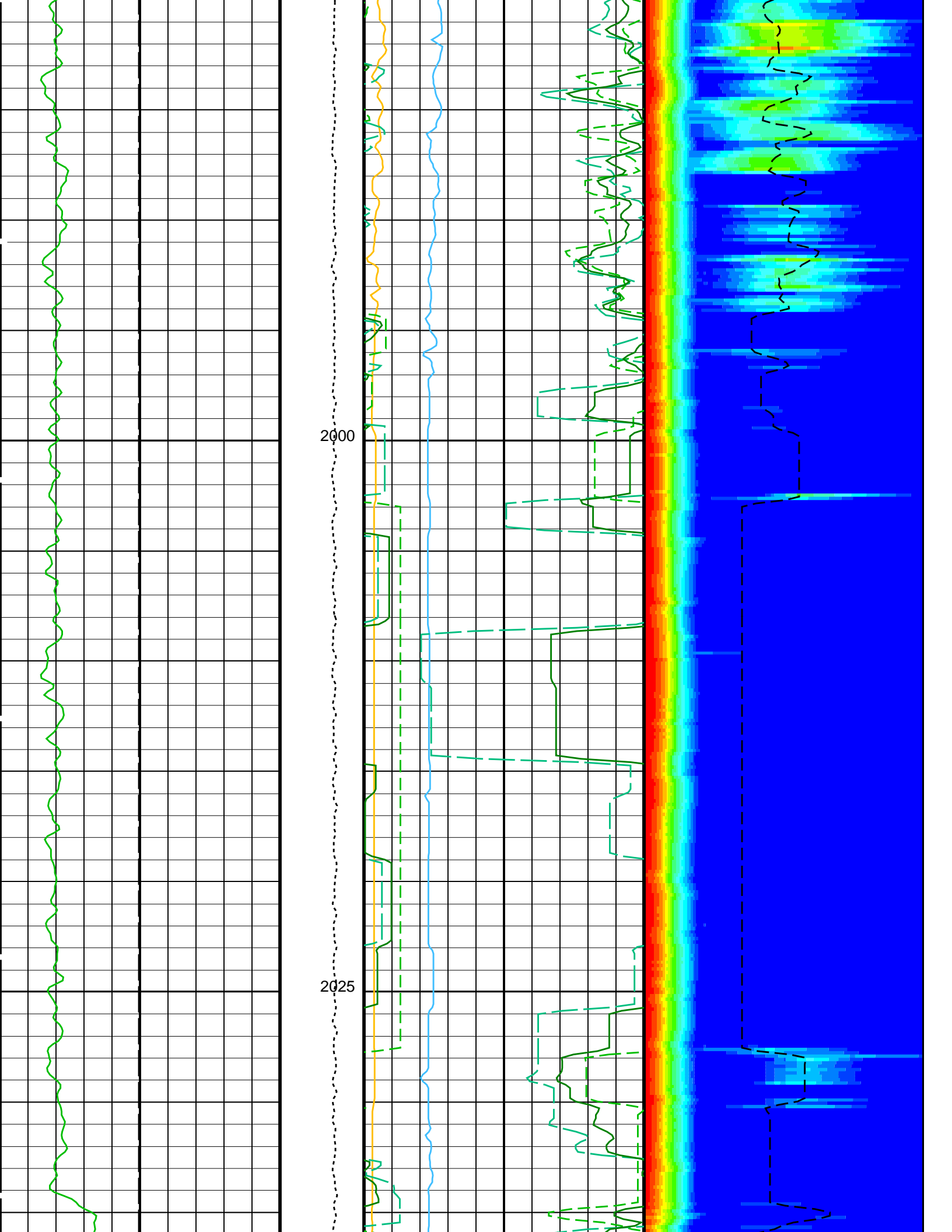


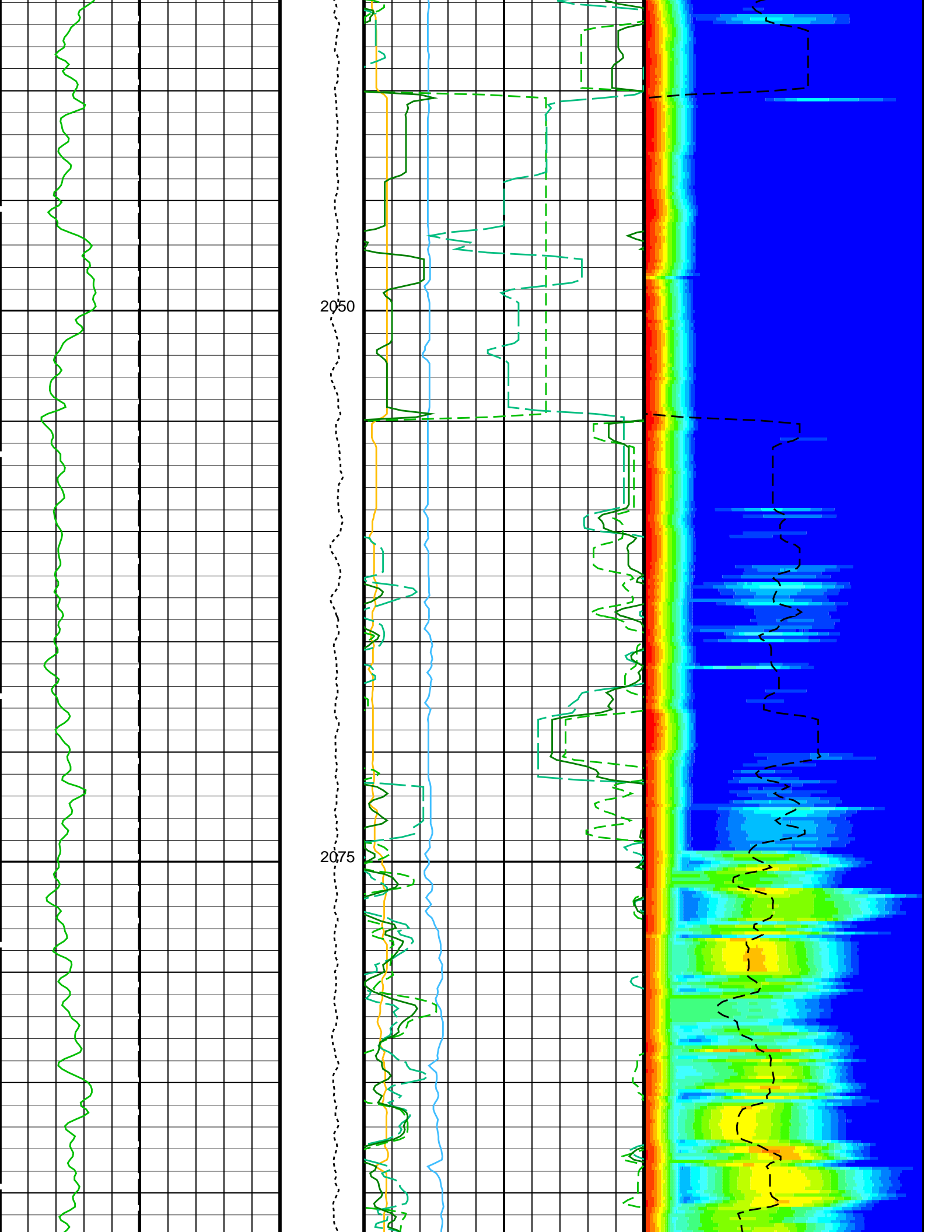
1925

1950

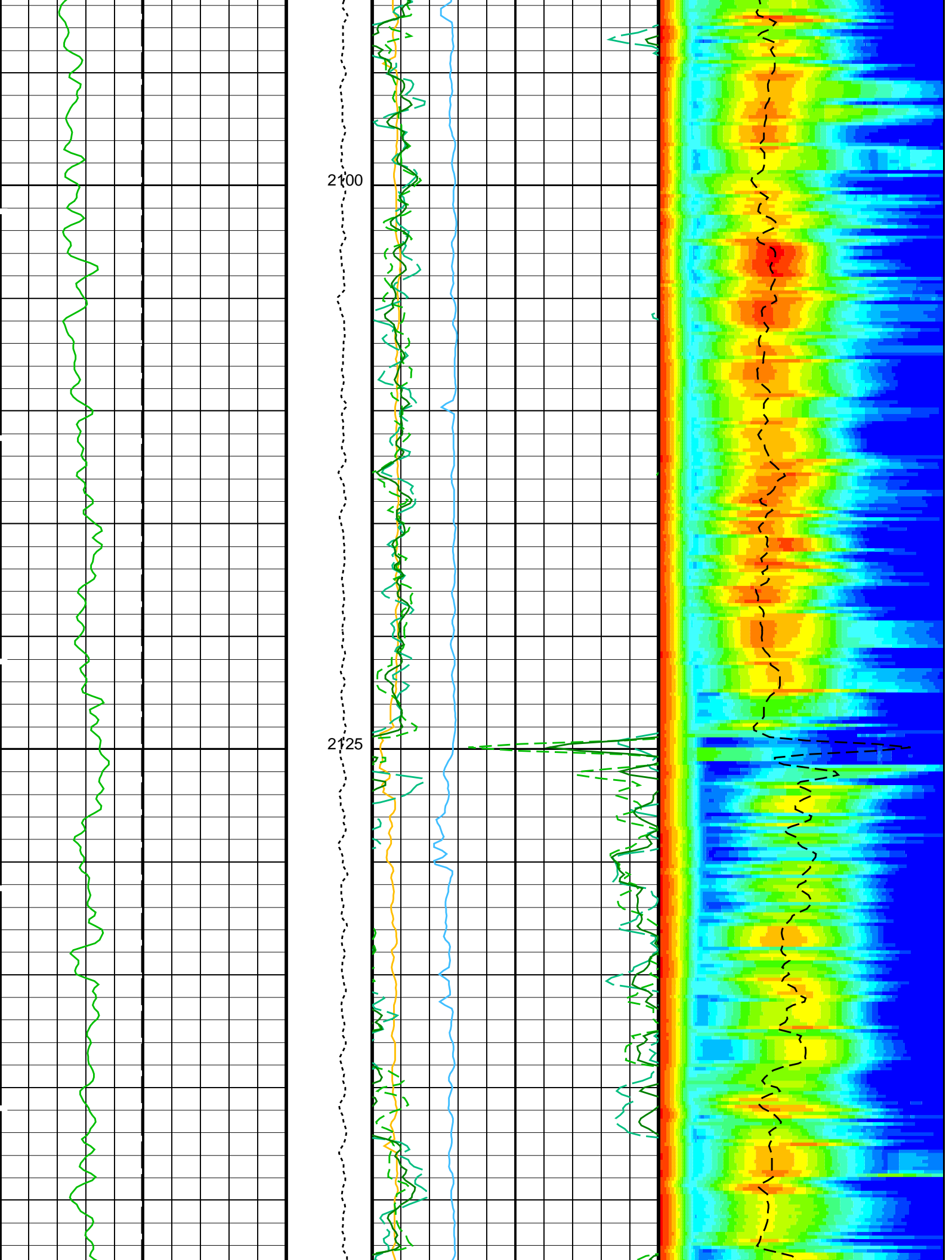
1975

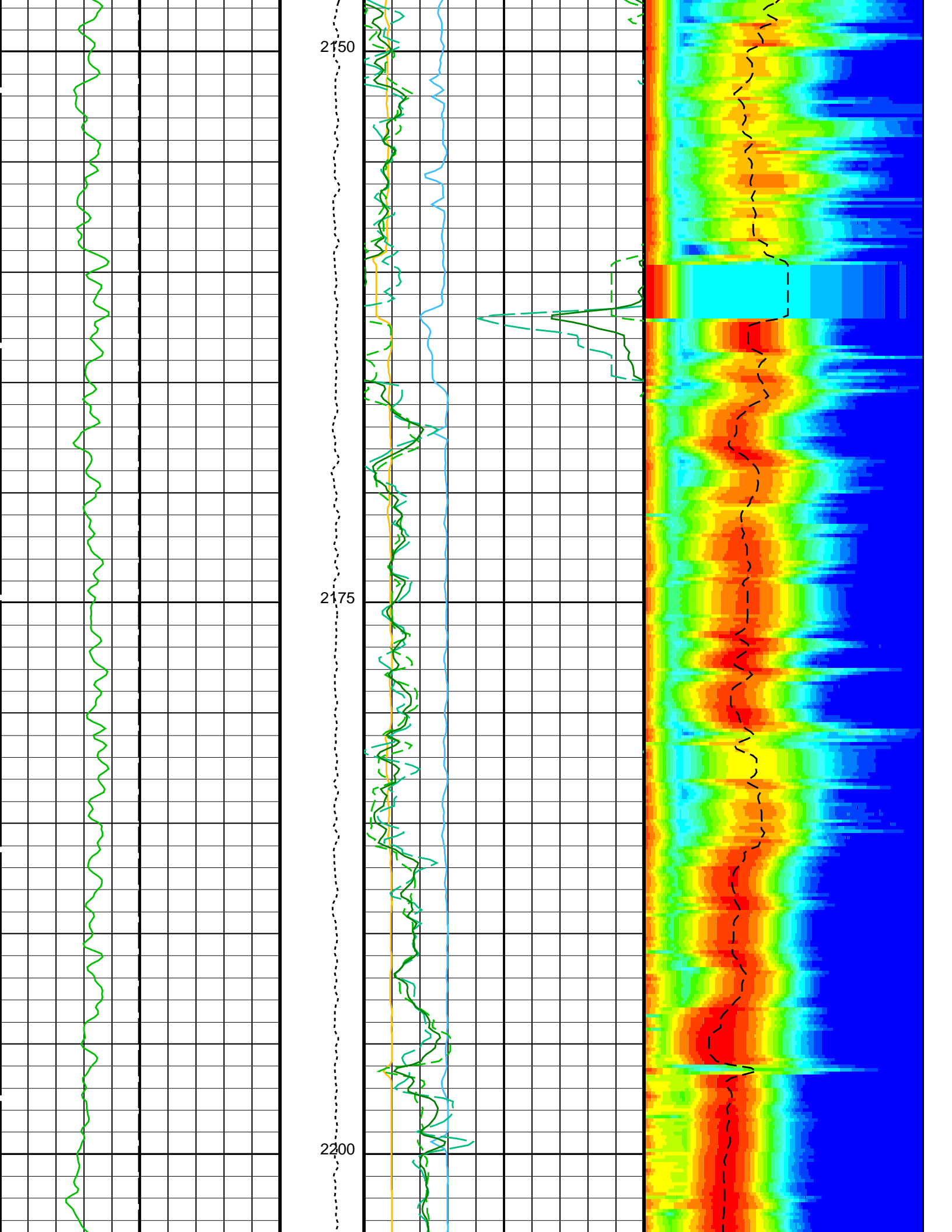


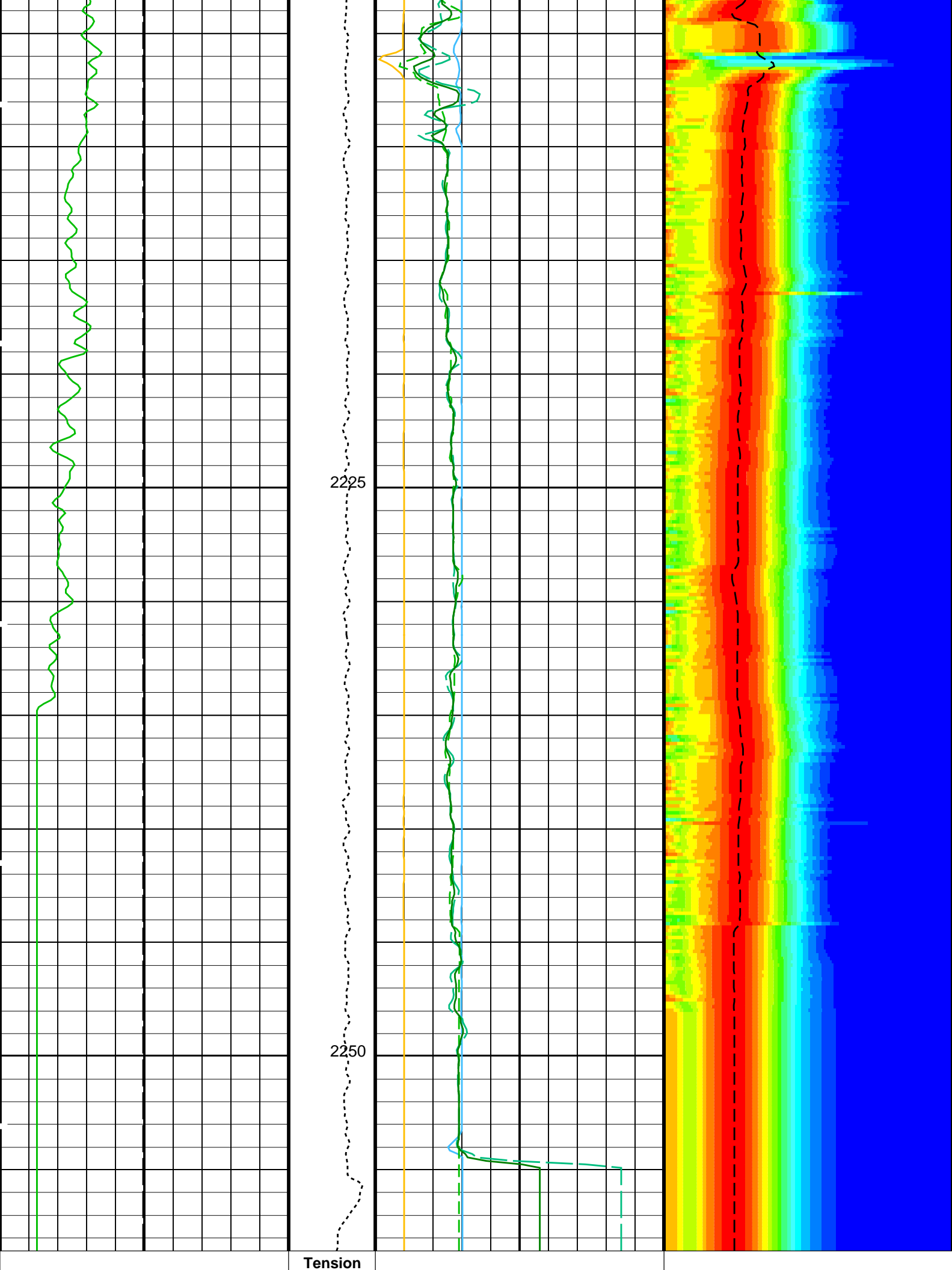


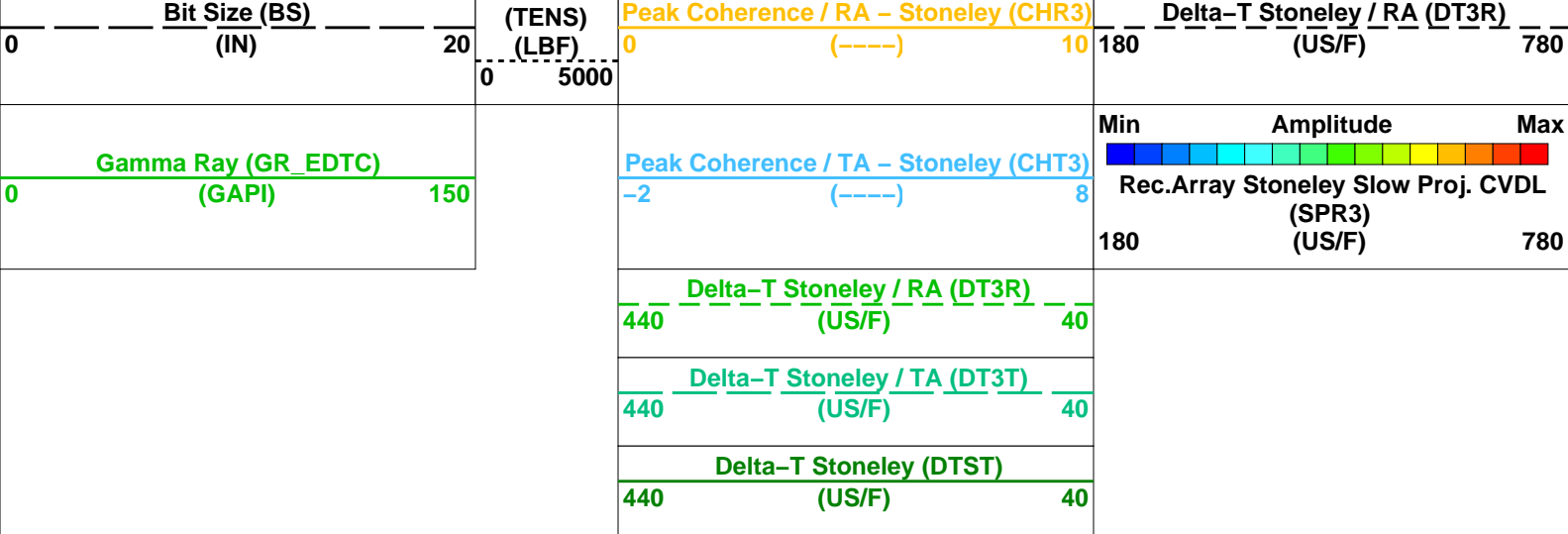












PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM3	DSST Sonic Acquisition Mode 3 – Monopole Mode for Stoneley	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status – Monopole Stoneley	255	
SBO3	STC Search Band Offset – Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth – Monopole Stoneley	6000	US
SFC3	STC Formation Character – Monopole Stoneley	SELECTABLE	
SFM3	STC Filter – Monopole Stoneley	B.5–1.5K	
SLL3	STC Slowness Lower Limit – Monopole Stoneley	180	US/F
SST3	STC Slowness Step – Monopole Stoneley	4	US/F
SSW3	STC Source Waveform – Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	780	US/F
SWD3	STC Slowness Width – Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill – Monopole Stoneley	0	US
TLL3	STC Time Lower Limit – Monopole Stoneley	620	US
TST3	STC Time Step – Monopole Stoneley	200	US
TUL3	STC Time Upper Limit – Monopole Stoneley	12020	US
TWD3	STC Time Width – Monopole Stoneley	2000	US
TWI3	STC Integration Time Window – Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: DSST\_STONELEY\_VDL\_COLOR      Vertical Scale: 1:200      Graphics File Created: 24-Dec-2023 17:02

## Input DLIS Files

DEFAULT DSI\_NGS\_022LUP FN:18 PRODUCER 23-Dec-2023 19:28 2258.6 M 1653.8 M

## Output DLIS Files

DEFAULT DSI\_NGS\_034PUP FN:27 PRODUCER 24-Dec-2023 17:02

**Schlumberger**

## Calibrations

MAXIS Field Log

### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: Calibration out of date	19-Apr-2023 22:22	Before: Calibration out of date	8-May-2023 17:06				
Na 511 Peak Loc	40.00	38.56	38.74	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.82	15.90	N/A	N/A	2.000	%
High Voltage	1150	1206	1209	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	139.2	139.2	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.087	8.708	N/A	N/A	2.000	%
Temperature	15.50	26.64	27.44	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	47.40	47.39	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: Calibration out of date	19-Apr-2023 22:22	Before: Calibration out of date	8-May-2023 17:06				
Na 511 Peak Loc	40.00	39.72	39.64	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.41	16.74	N/A	N/A	2.000	%
High Voltage	1150	1089	1092	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.9	143.5	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.753	8.927	N/A	N/A	2.000	%
Temperature	15.50	25.53	26.75	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	47.70	47.65	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: Calibration out of date	19-Apr-2023 22:22	Before: Calibration out of date	8-May-2023 17:06				
Coincidence Count Rate Ratio	1.000	0.9913	0.9927	N/A	N/A	0.05000	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: Calibration out of date	5-May-2022 11:27						
EDTC Z-Axis Acceleration	9.810	N/A	9.807	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: Calibration out of date	8-May-2023 16:48						
Gamma Ray (Jig – Bkg)	159.9	N/A	159.9	N/A	N/A	14.54	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

### Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:  
HNGC Cartridge HNGC – B 300

Auxiliary Equipment:  
HNGC Housing HNGH – A 115

# Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde

HNGS – BA

177

Auxiliary Equipment:

HNGS Sonde Housing

HNSH – BA

174

Gamma Source Radioactive

GSR – U

135

## Hostile Natural Gamma Ray Sonde Wellsite Calibration

### Detector 1 Check

Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value	
Master	<div><div></div></div>		38.56	Master	<div><div></div></div>		16.82	Master	<div><div></div></div>		1206	
Before	<div><div></div></div>		38.74	Before	<div><div></div></div>		15.90	Before	<div><div></div></div>		1209	
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)				900.0 (Minimum)			1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value	
Master	<div><div></div></div>		139.2	Master	<div><div></div></div>		9.087	Master	<div><div></div></div>		26.64	
Before	<div><div></div></div>		139.2	Before	<div><div></div></div>		8.708	Before	<div><div></div></div>		27.44	
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)				-28.89 (Minimum)			15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS		Value									
Master	<div><div></div></div>		47.40									
Before	<div><div></div></div>		47.39									
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)

Master: Calibration out of date 19-Apr-2023 22:22 Before: Calibration out of date 8-May-2023 17:06

## Hostile Natural Gamma Ray Sonde Wellsite Calibration

### Detector 2 Check

Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master	<div><div></div></div>		39.72	Master	<div><div></div></div>		15.41	Master	<div><div></div></div>		1089
Before	<div><div></div></div>		39.64	Before	<div><div></div></div>		16.74	Before	<div><div></div></div>		1092
37.50 (Minimum)40.00 (Nominal)43.50 (Maximum)				12.00 (Minimum)15.50 (Nominal)19.00 (Maximum)				900.0 (Minimum)1150 (Nominal)1600 (Maximum)			
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master	<div><div></div></div>		142.9	Master	<div><div></div></div>		8.753	Master	<div><div></div></div>		25.53
Before	<div><div></div></div>		143.5	Before	<div><div></div></div>		8.927	Before	<div><div></div></div>		26.75
135.0 (Minimum)142.6 (Nominal)150.3 (Maximum)				7.000 (Minimum)8.500 (Nominal)11.00 (Maximum)				−28.89 (Minimum)15.50 (Nominal)60.00 (Maximum)			
Phase	Na Count Rate CPS		Value								
Master	<div><div></div></div>		47.70								
Before	<div><div></div></div>		47.65								
10.00 (Minimum)45.00 (Nominal)100.0 (Maximum)											

Master: Calibration out of date 19-Apr-2023 22:22 Before: Calibration out of date 8-May-2023 17:06

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9913
Before		0.9927
0.9500 (Minimum)		1.000 (Nominal)
		1.050 (Maximum)
Master: Calibration out of date 19-Apr-2023 22:22		
Before: Calibration out of date 8-May-2023 17:06		

## Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector


EDTG – A/B




79159

Enhanced DTS Cartridge

EDTC – B

8081

Enhanced DTS Cartridge Wellsite Calibration			
EDTC Accelerometer Calibration			
Phase	EDTC Z-Axis Acceleration M/S2		Value
Before			9.807
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: Calibration out of date 5-May-2022 11:27			

Enhanced DTS Cartridge Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			6.122	Before			159.9	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		145.4 (Minimum)	159.9 (Nominal)	174.4 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: Calibration out of date 8-May-2023 16:48											

Company:

International Ocean Discovery Program

Well:

Expedition 401, Site U1609A

Field:

Mediterranean–Atlantic Gateway Exchange

Rig:

JOIDES Resolution

Country:

Portugal

HNGS, DSI

Gamma, Sonic

Schlumberger