

Schlumberger

Company: **Lamont Doherty Earth Observatory**

Well: **Expedition 350, Site U1437D**

Field: **IBM-1 (Rear Arc)**

Rig: **JOIDES Resolution** Country: _____

JOIDES Resolution										Run 1	Run 2	R	
Rig: JOIDES Resolution Field: IBM-1 (Rear Arc) Location: Latitude: N 31.7897* Well: Expedition 350, Site U1437D Company: Lamont Doherty Earth Observatory	DSI Sonic Stoneley												
	Latitude: N 31.7897* Longitude: E 139.02631*						Elev.: K.B. -2127.30 m G.L. 0.00 m D.F. -2127.30 m						
	Permanent Datum: <u>Mean Sea Level</u>				Elev.: <u>0.00 m</u>								
	Log Measured From: <u>Drill Floor</u>				0.00 m above Perm. Datum								
	Drilling Measured From: <u>Drill Floor</u>												
Ocean: Pacific		Max. Well Deviation 0 deg			Longitude E 139.02631		Latitude N 31.7897						
Logging Date		22-Apr-2014								Logging Date			
Run Number		1								Run Number			
Depth Driller		980.4 m								Depth Driller			
Schlumberger Depth		946.5 m								Schlumberger Depth			
Bottom Log Interval		930 m								Bottom Log Interval			
Top Log Interval		137.5 m								Top Log Interval			
Casing Driller Size @ Depth		5.500 in @ 92.3 m @								Casing Driller Size @ Depth @			
Casing Schlumberger		92.3 m								Casing Schlumberger			
Bit Size		9.875 in								Bit Size			
Type Fluid In Hole		Seawater								Type Fluid In Hole			
MUD	Density	Viscosity	1.03 g/cm3						Density	Viscosity			
	Fluid Loss	PH							Fluid Loss	PH			
	Source Of Sample		N/A								Source Of Sample		
RM @ Measured Temperature		@						RM @ Measured Temperature		@			
RMF @ Measured Temperature		@						RMF @ Measured Temperature		@			
RMC @ Measured Temperature		@						RMC @ Measured Temperature		@			
Source RMF		RMC		N/A		N/A		Source RMF		RMC			
RM @ MRT		RMF @ MRT		@ 60		@ 60		RM @ MRT		RMF @ MRT	@		
Maximum Recorded Temperatures		60 degC								Maximum Recorded Temperatures			
Circulation Stopped		Time			22-Apr-2014			14:00			Circulation Stopped		Time
Logger On Bottom		Time			23-Apr-2014			5:10			Logger On Bottom		Time
Unit Number		Location		627314		Houston		Unit Number		Location			
Recorded By		C. Furman								Recorded By			
Witnessed By		G. Guerin								Witnessed By			

DISCLAIMER

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OTHER SERVICES1

- OS1: HRLA
- OS2: HLDS / APS
- OS3: MSS
- OS4: HNGS
- OS5: FMS

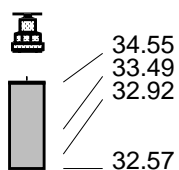
REMARKS: RUN NUMBER 1

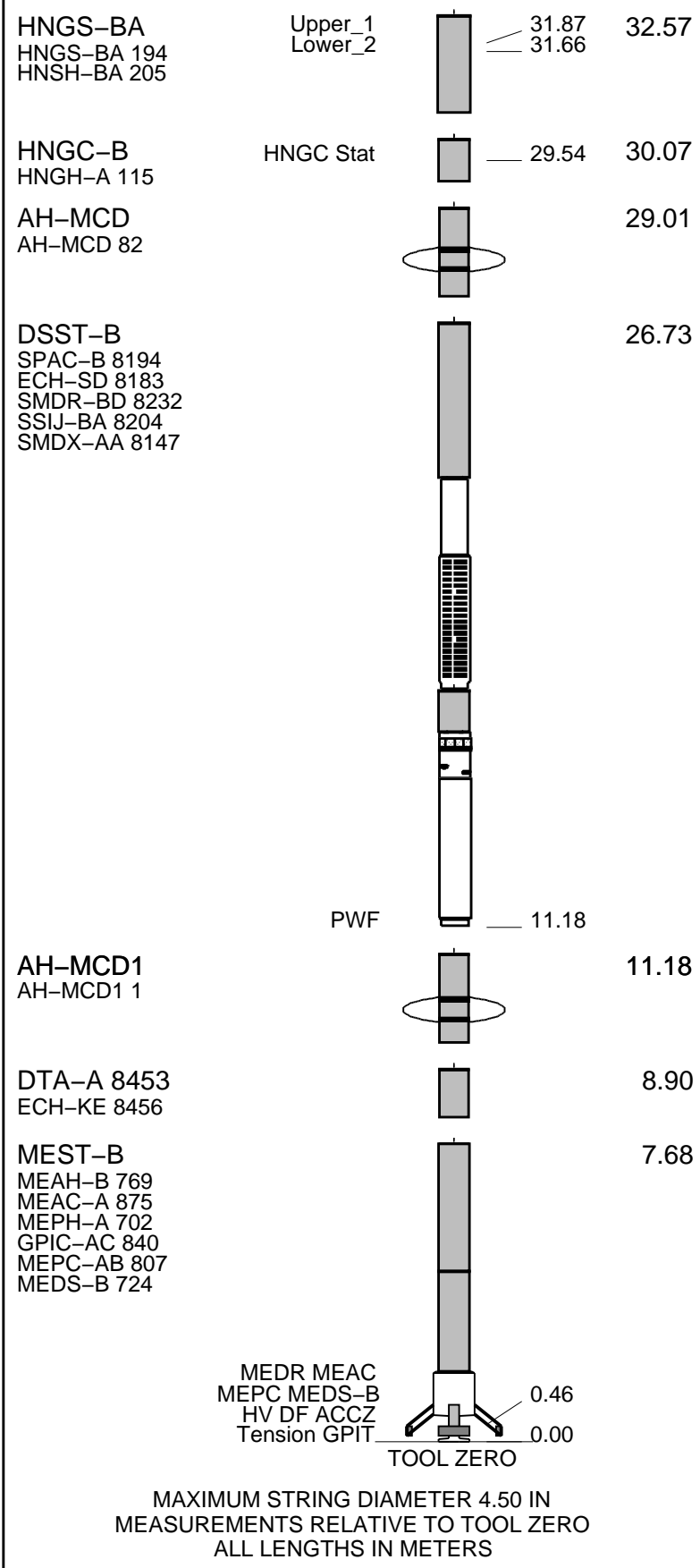
Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8 " BS
 Coring concluded approximately 24 hours prior to logging.
 Drill pipe set at a depth of 92.3mbsf with a logging bit installed to facilitate wireline logging.
 Downlog run with corrections computed using bit size; uplogs corrected for actual hole size using caliper.
 FMS Calipers closed for downlog; calipers open for uplog with EMEX set to Auto mode.
 DSI run with P&S=Std, Stoneley=Std, Upper Dipole = Std, and Lower Dipole = Low Freq. modes for all passes.
 Tool string run centered using modified MCD inline centralizers, as per toolsketch.
 Fluid type was sea water, as used to drill, so no barite corrections were required.
 Depth originally recorded from drill floor; played back with sea floor as reference zero.
 All logs presented in measured depth below sea floor (MDBSF).
 Logs played back to correct Slowness labelling, apply GPIT corrections, and apply computed FMS contrast map.

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

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
GSR-U 616008 WITM (EDTS)-A	

RUN 1	RUN 2
DOWNHOLE EQUIPMENT	
LEH-QT LEH-QT 1701 EDTC-B EDTH-B 8303 EDTC-B 8317 EDTG-A/B 8305	MDSB_EDTC Mud Tempe CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele
	
	34.55 35.44 33.49 32.92 34.55 32.57



Production String	(in) (m)	Well Schematic	(m) (in)	Casing String
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Kelly Bushing Elevation

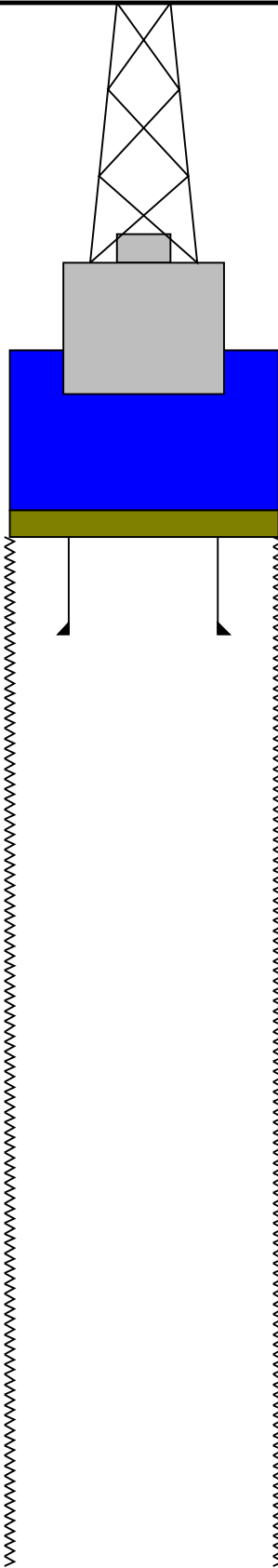
Derrick Floor Elevation

Mean Sea Level

-2127.3

-2127.3

-2117.3



0.0

92.3

5.500

980.4

9.875

Sea Floor

Bit Depth

Total Depth - Driller

Schlumberger

**Downlog
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 350, Site U1437D

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_044LUP	PRODUCER	25-Apr-2014 03:46	3075.9 M	2098.5 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_047PUP	FN:57	PRODUCER	25-Apr-2014 04:25	952.3 M	-25.0 M
CLIENT	FMS_DSI_NGS_047PUC	FN:58	CUSTOMER	25-Apr-2014 04:25	952.3 M	-25.0 M

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Changed Parameter Summary

DLIS Name

New Value

Previous Value

Depth & Time

STLL


180 US/F
300 US/F
180 US/F

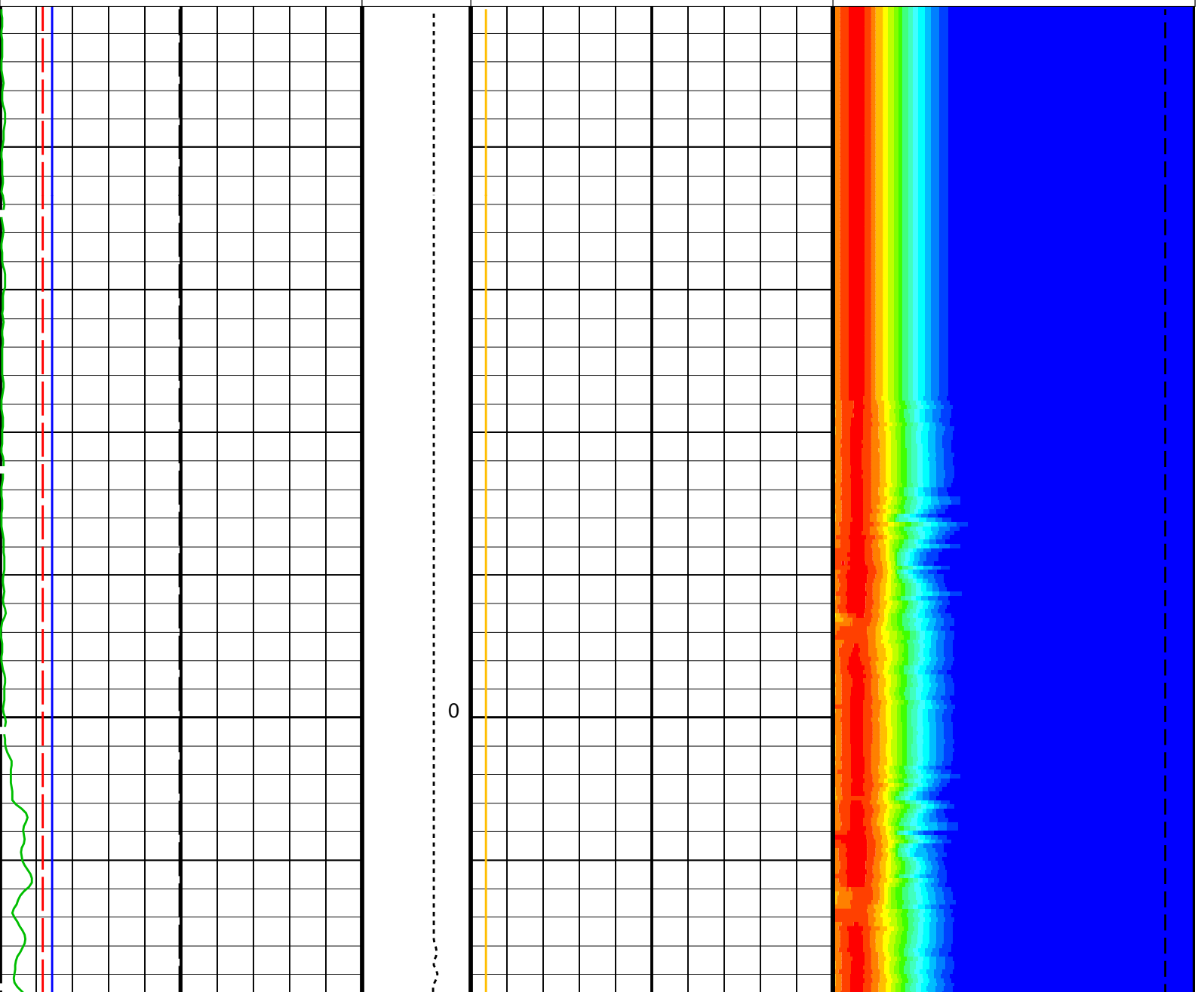
180 US/F
180 US/F
300 US/F

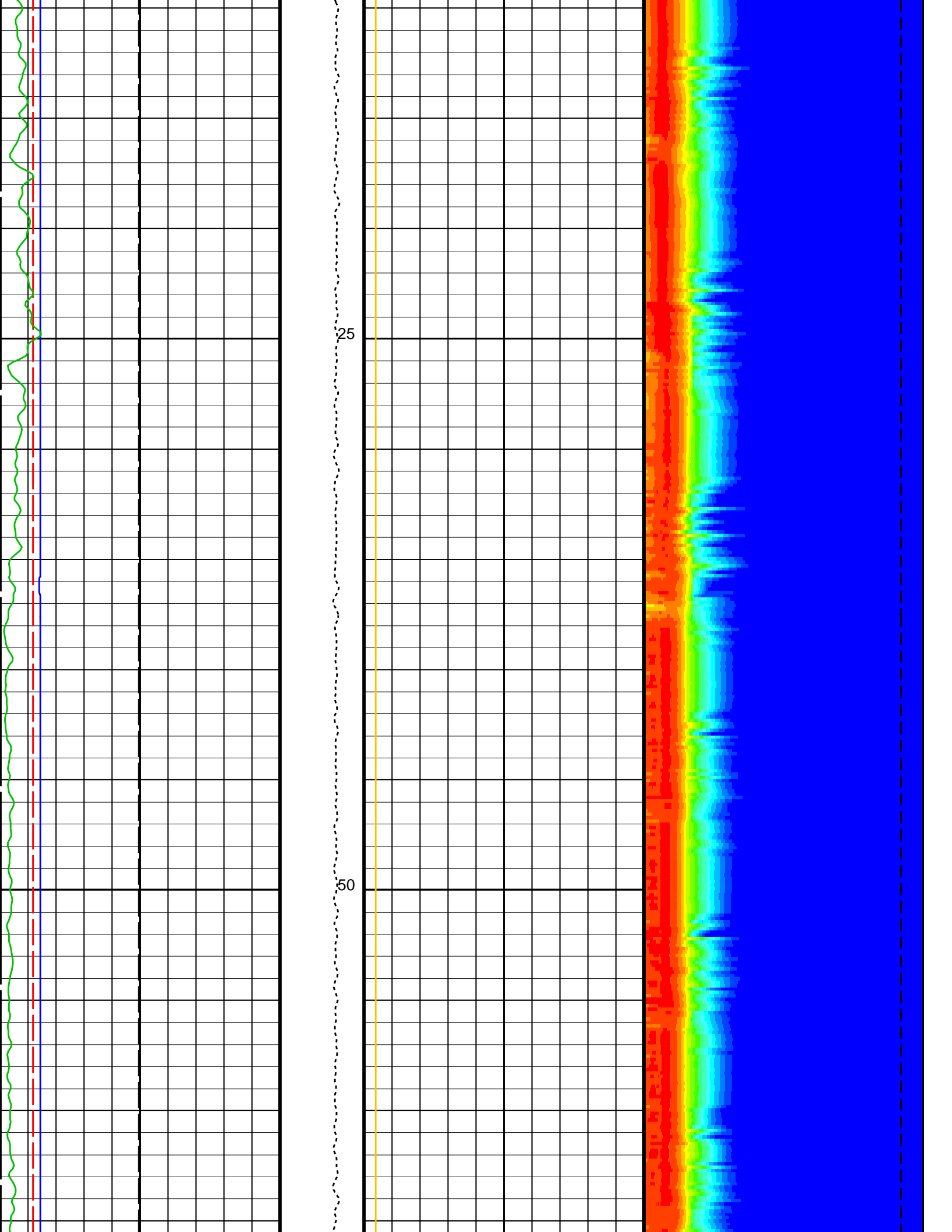
952.3 04:25:42
219.9 04:27:29
91.4 04:27:48

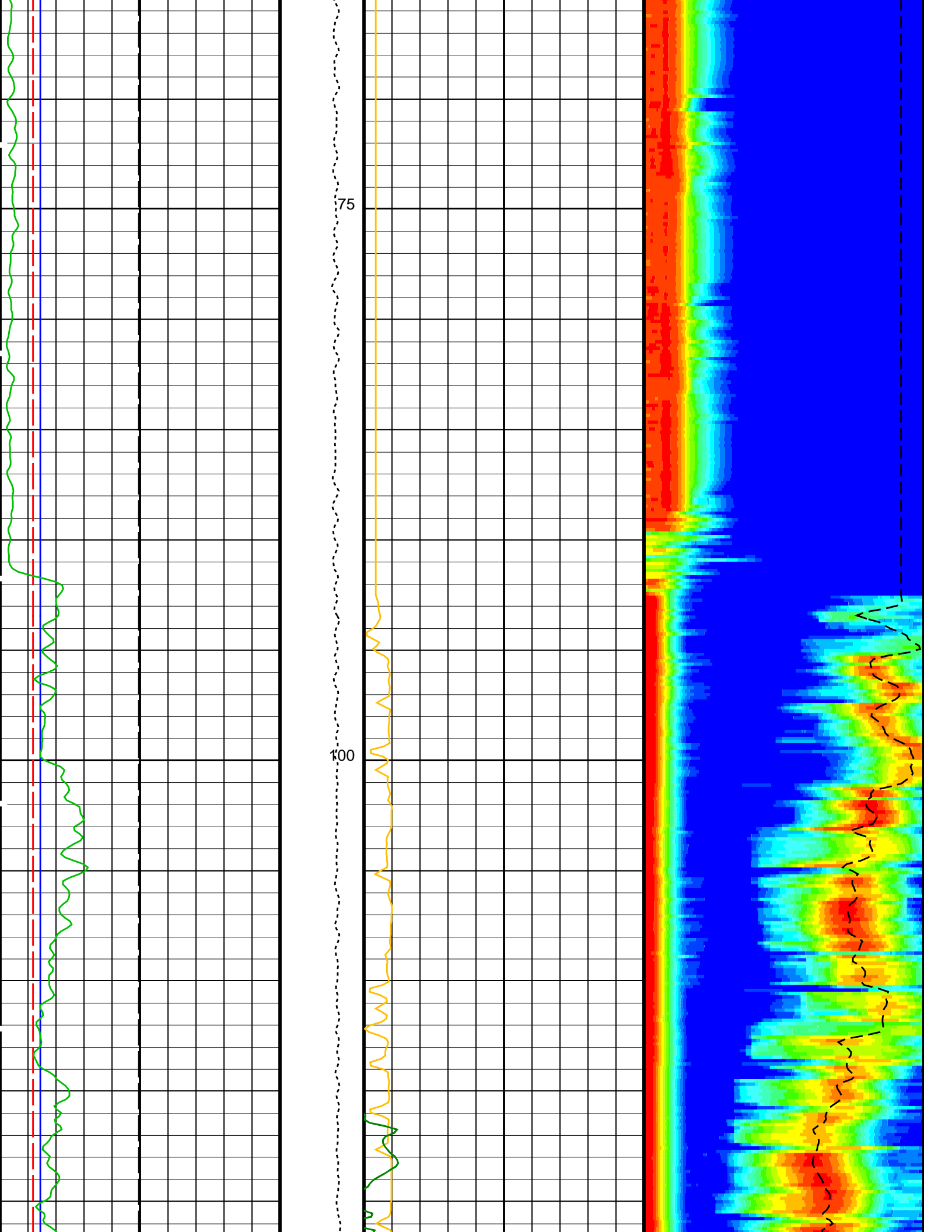
PIP SUMMARY

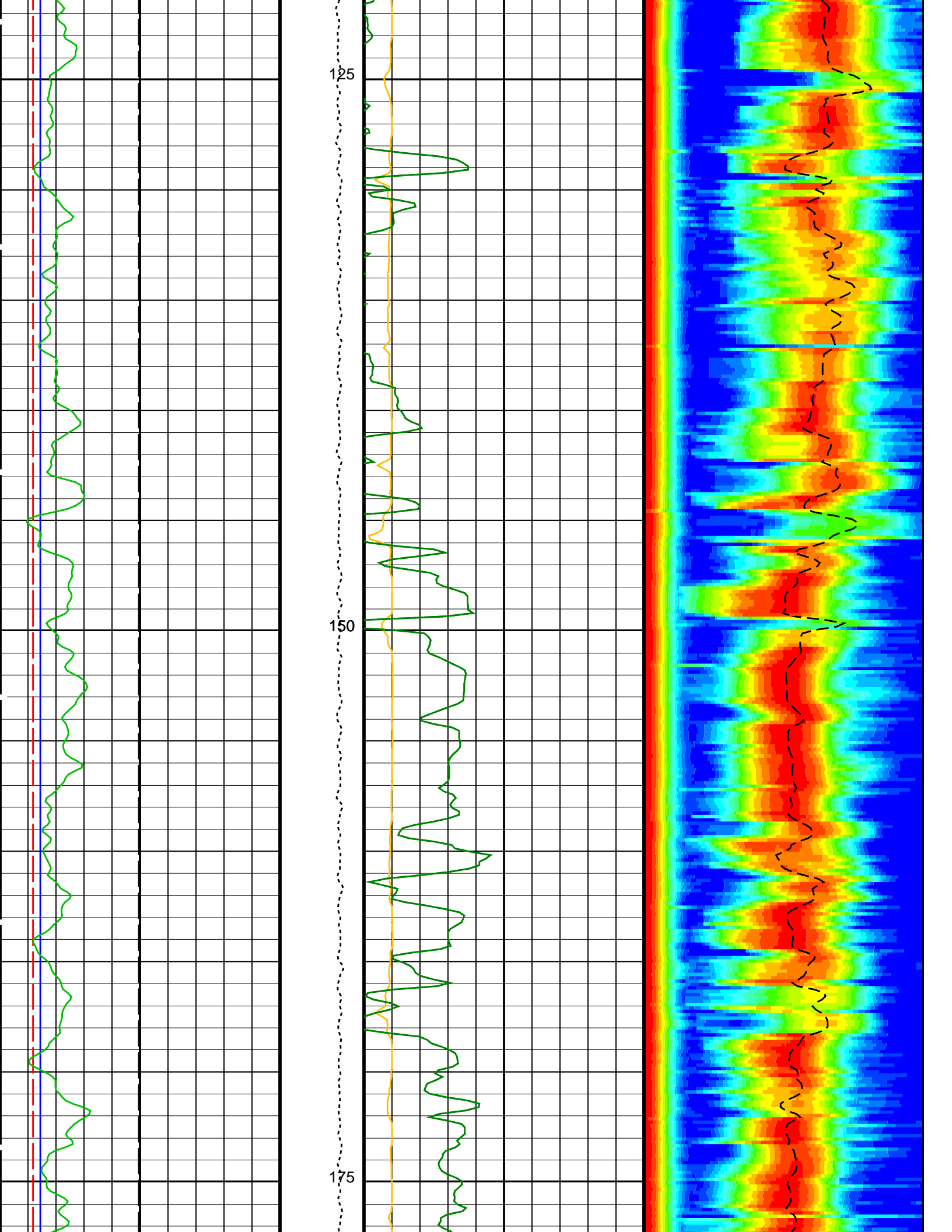
Time Mark Every 60 S

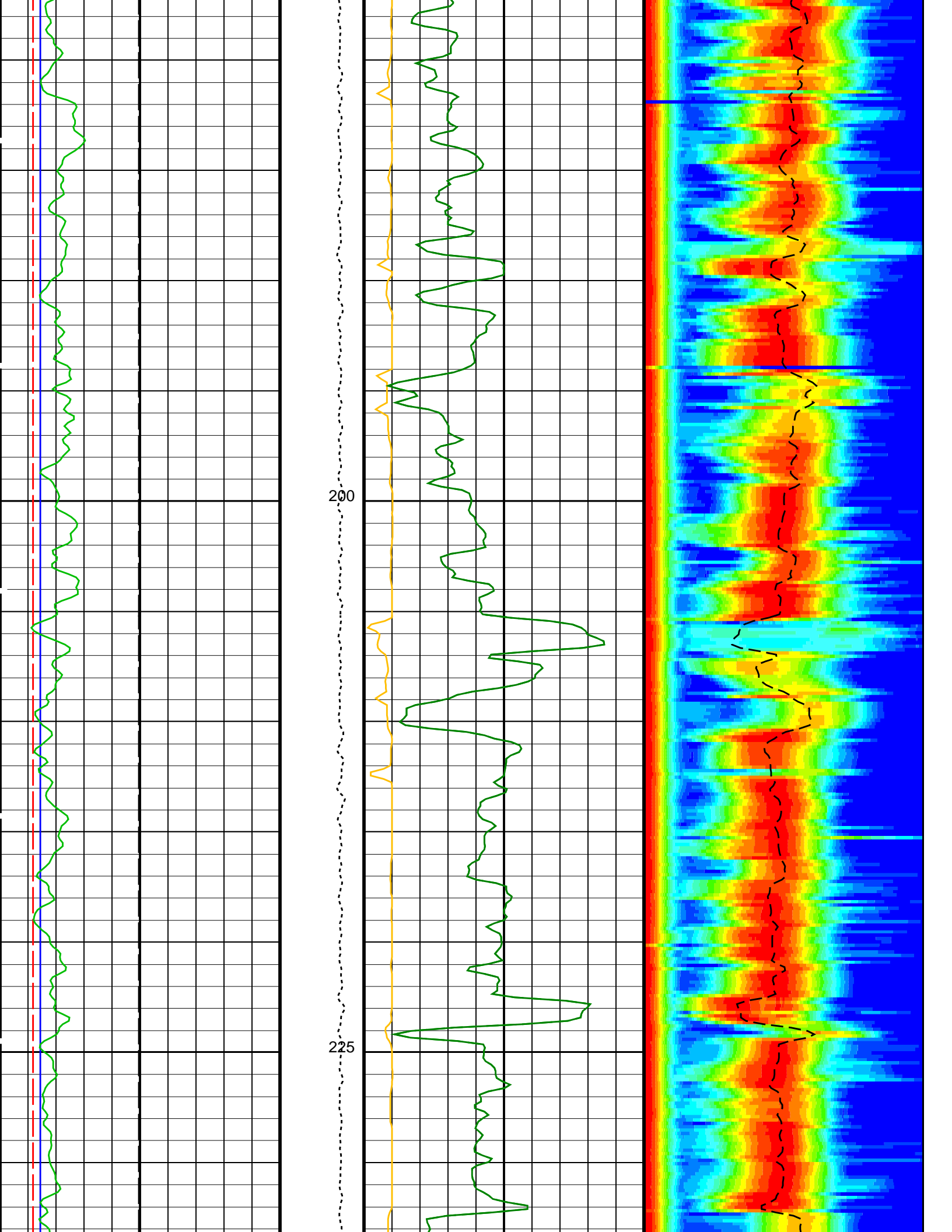
<p style="text-align: center; color: green;">Gamma Ray (GR_EDTC) (GAPI)</p> <p style="text-align: center;">0 150</p>		<p style="text-align: center; color: green;">Delta-T Stoneley (DTST) (US/F)</p> <p style="text-align: center;">440 40</p>	
<p style="text-align: center; color: blue;">Caliper 2 (C2) (IN)</p> <p style="text-align: center;">0 20</p>		<p style="text-align: center; color: green;">Delta-T Stoneley / RA (DT3R) (US/F)</p> <p style="text-align: center;">440 40</p>	<p style="text-align: center;">Min Amplitude Max</p>  <p style="text-align: center;">Rec.Array Stoneley Slow Proj. CVDL (SPR3) (US/F)</p> <p style="text-align: center;">180 1200</p>
<p style="text-align: center; color: red;">Caliper 1 (C1) (IN)</p> <p style="text-align: center;">0 20</p>		<p style="text-align: center; color: yellow;">Peak Coherence / RA - Stoneley (CHR3) (-----)</p> <p style="text-align: center;">0 10</p>	<p style="text-align: center;">Delta-T Stoneley / RA (DT3R) (US/F)</p> <p style="text-align: center;">180 1200</p>
<p style="text-align: center;">Bit Size (BS) (IN)</p> <p style="text-align: center;">0 20</p>	<p style="text-align: center;">Tension (TENS) (LBF)</p> <p style="text-align: center;">0 5000</p>		

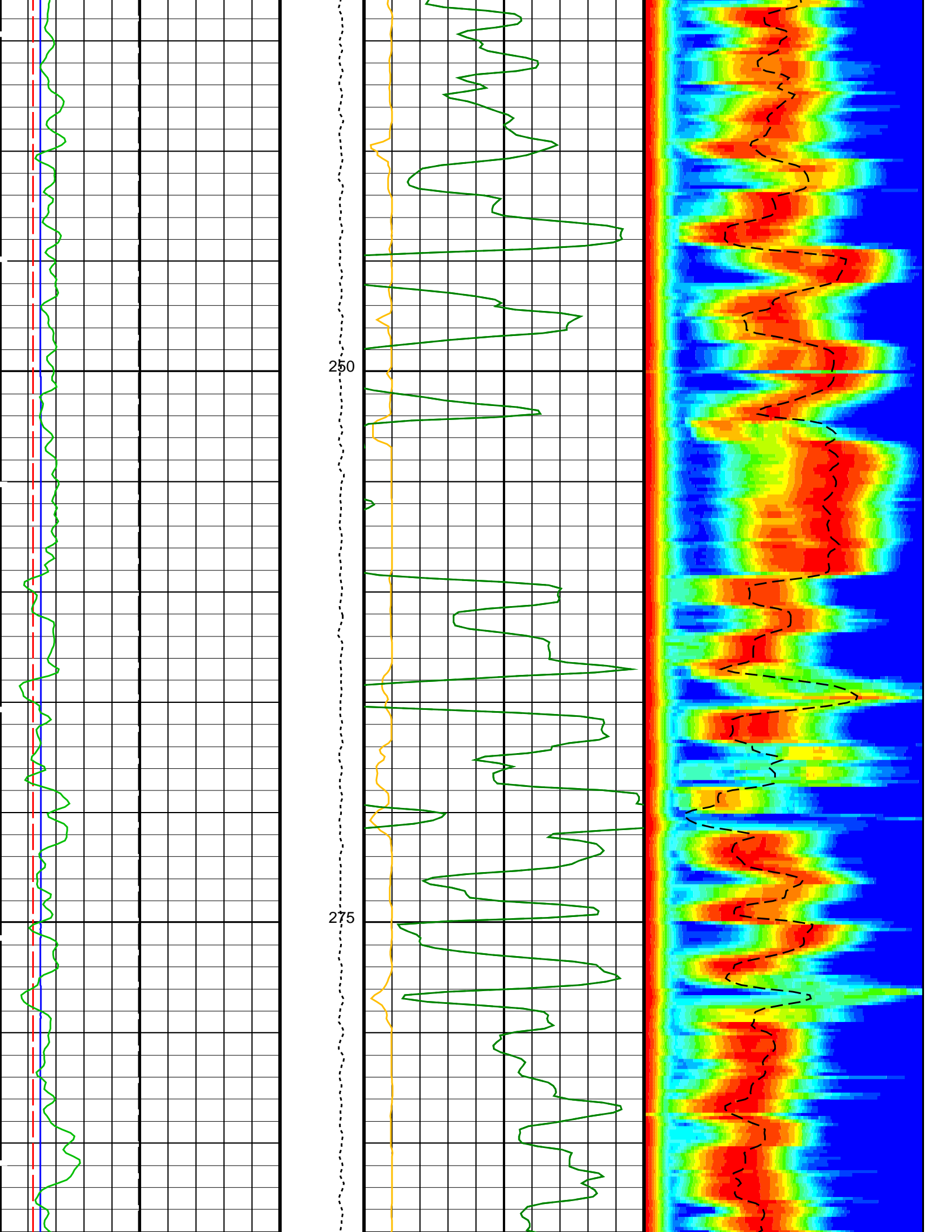


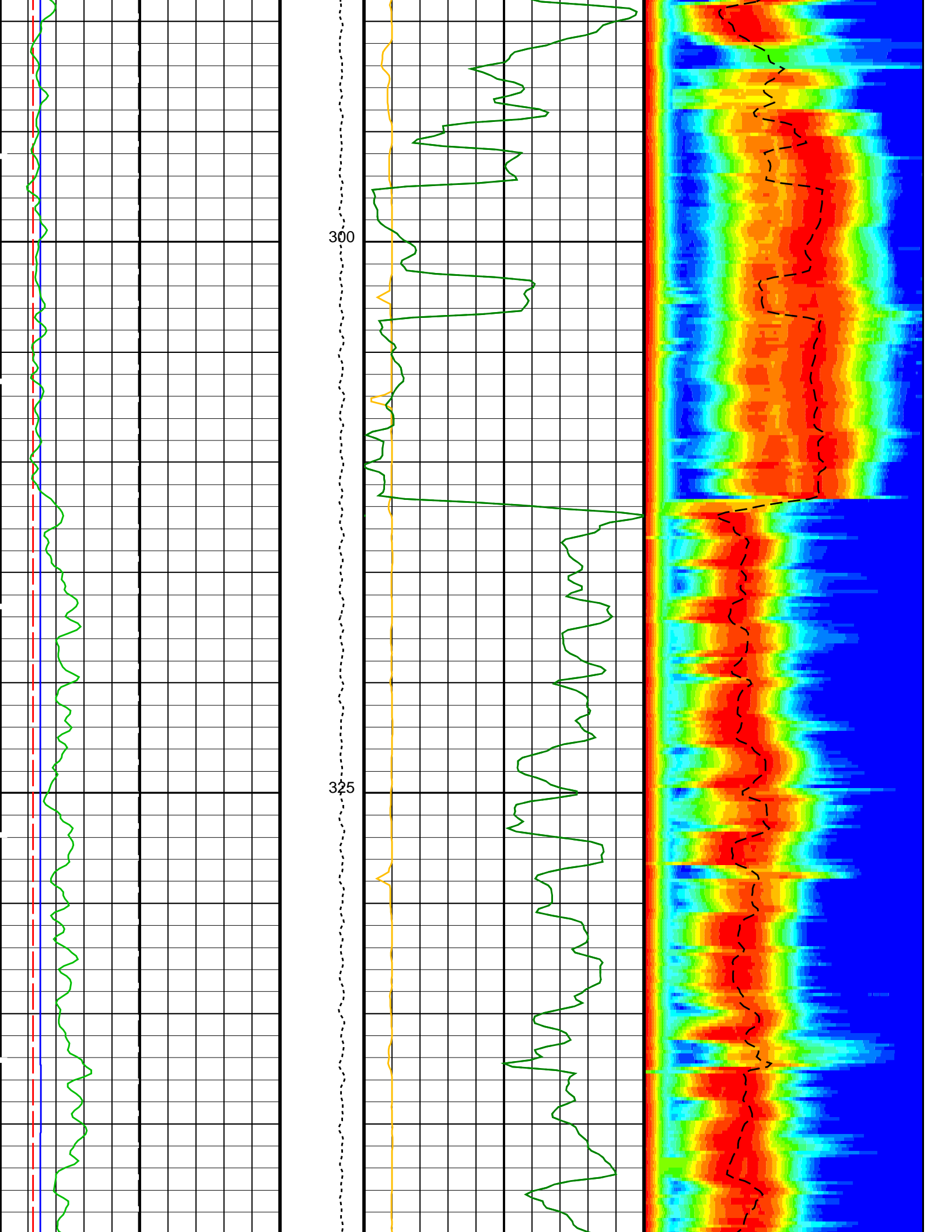


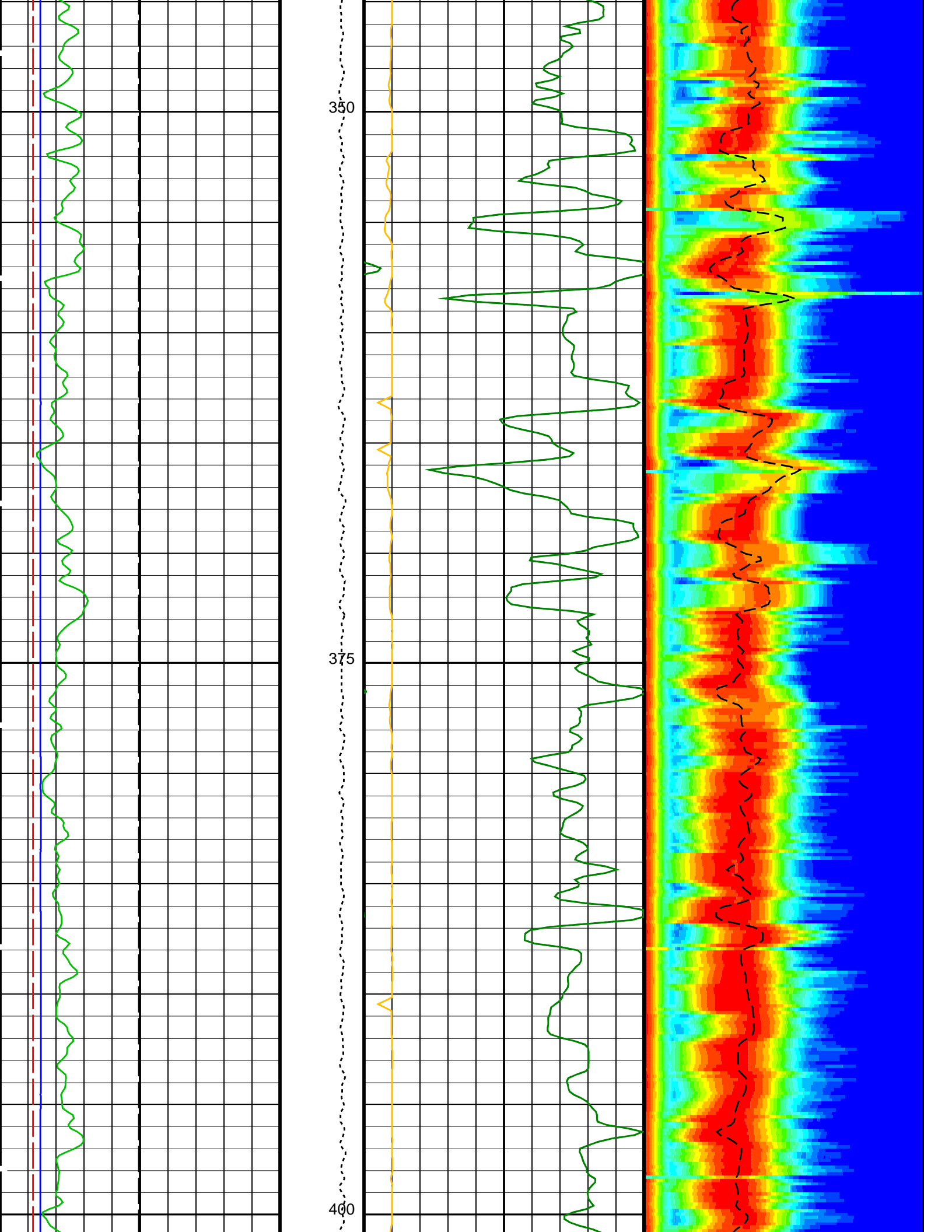


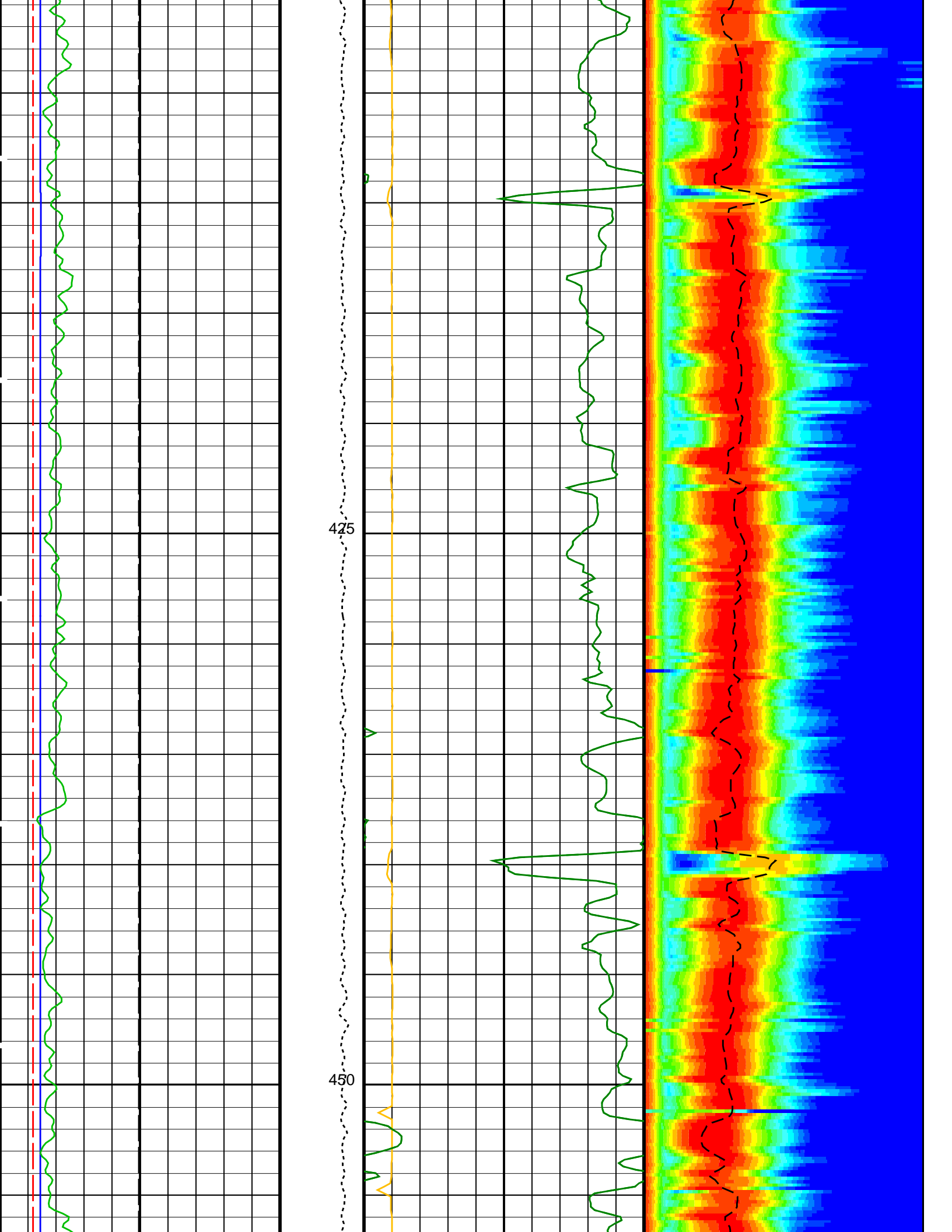


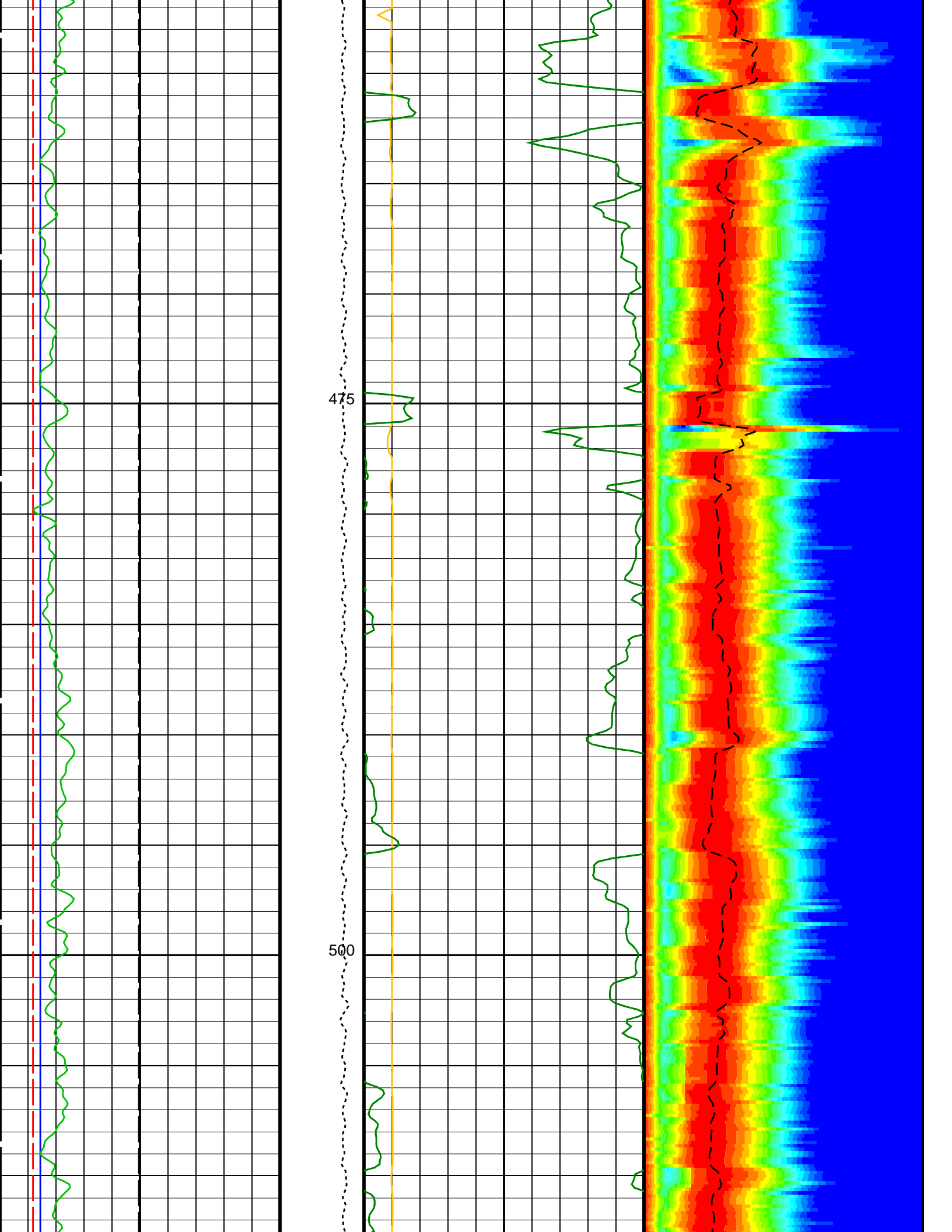


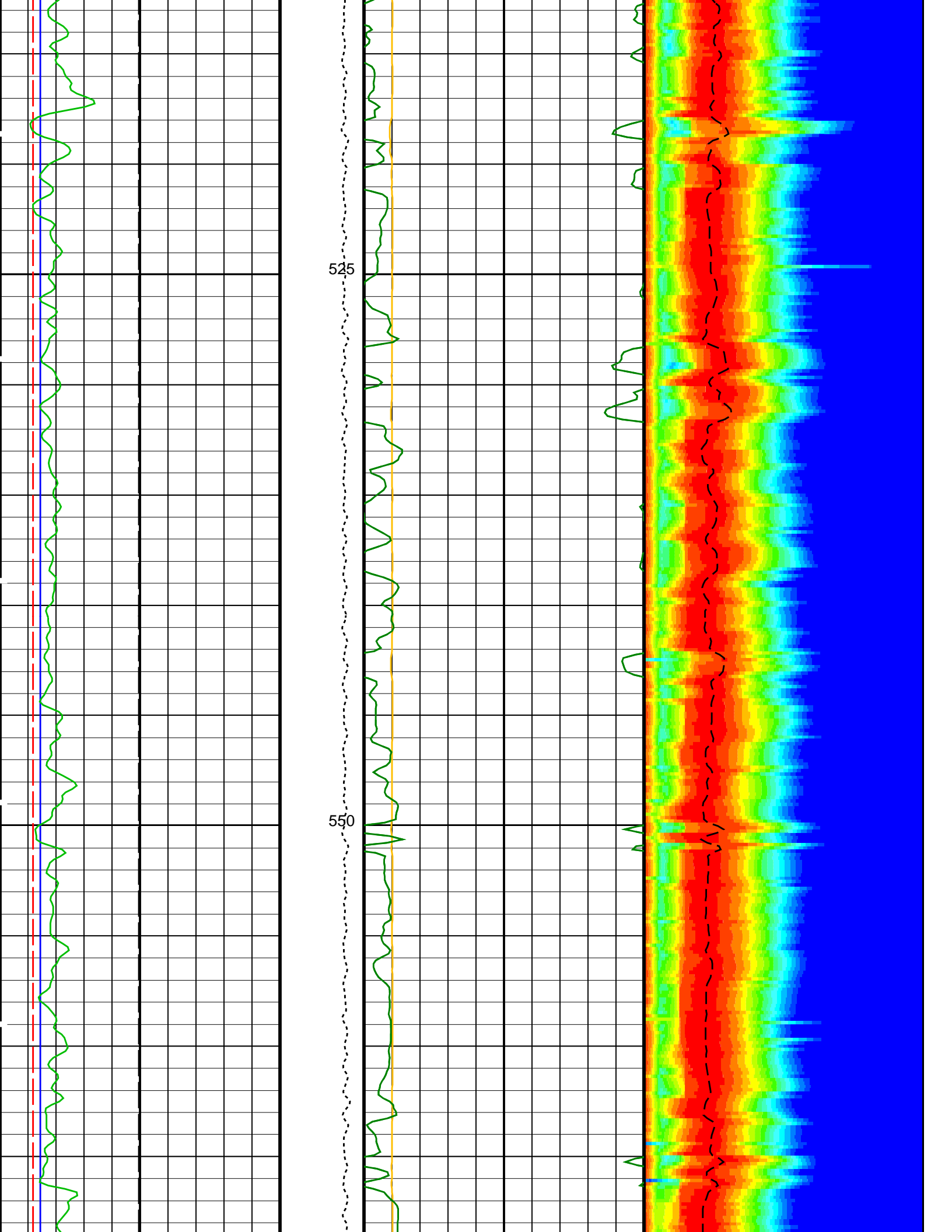


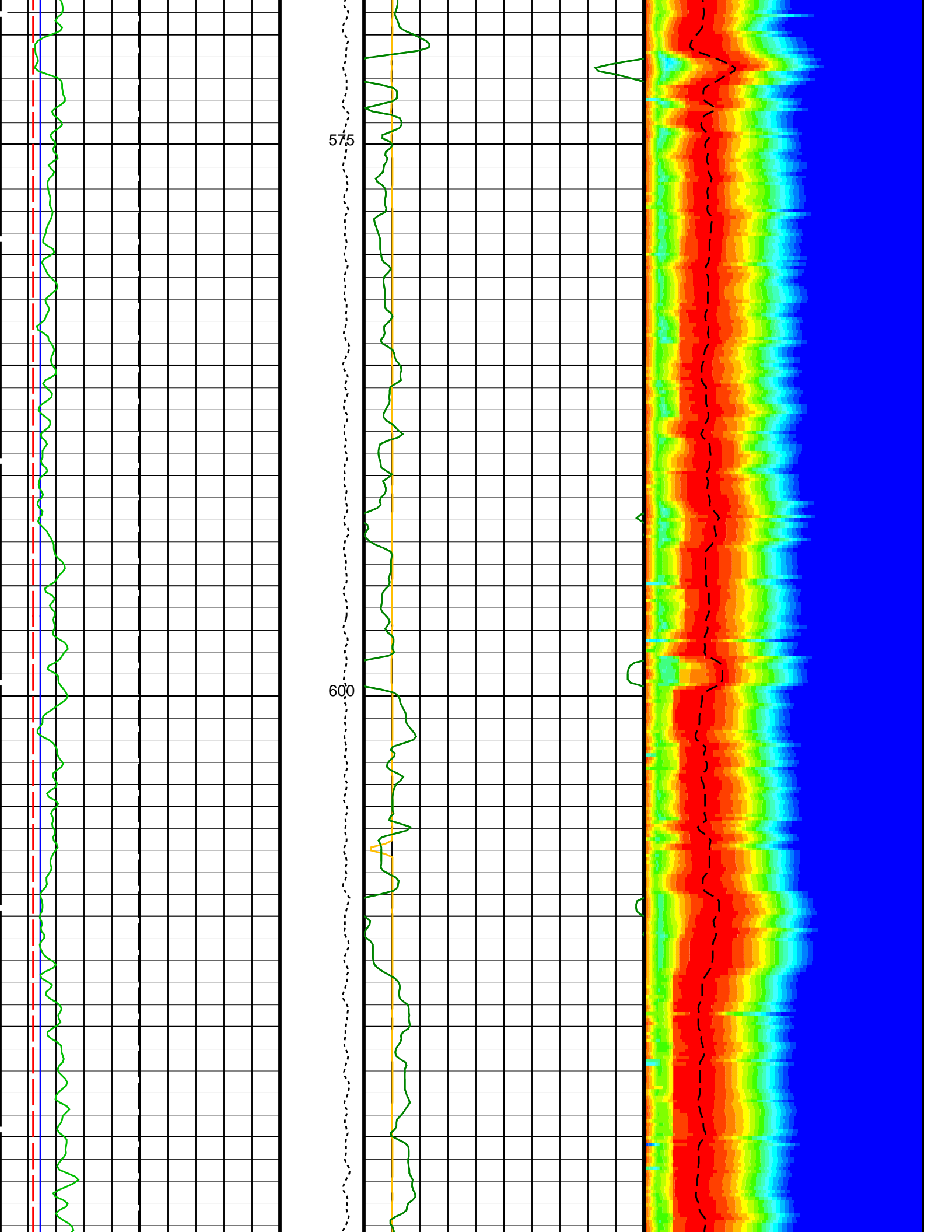


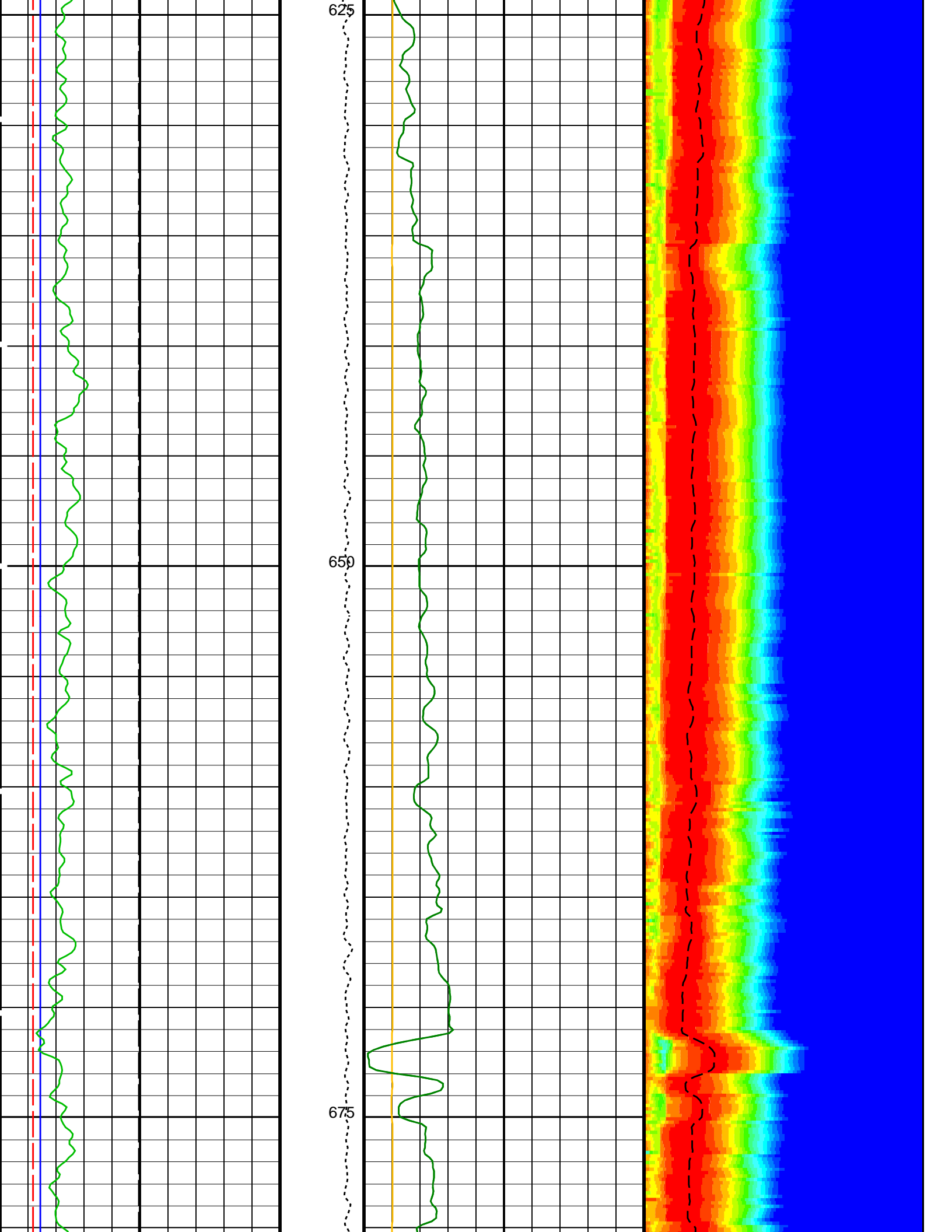


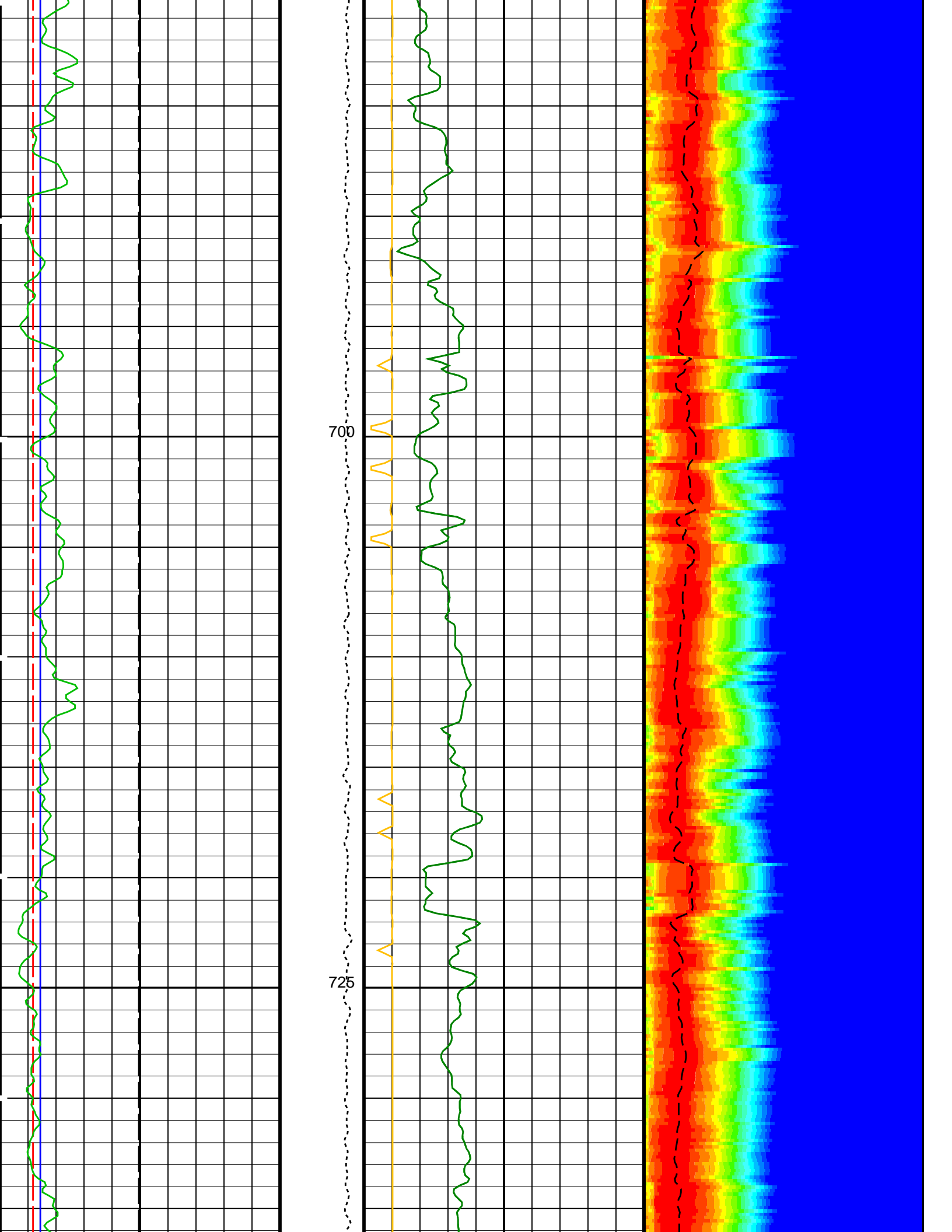


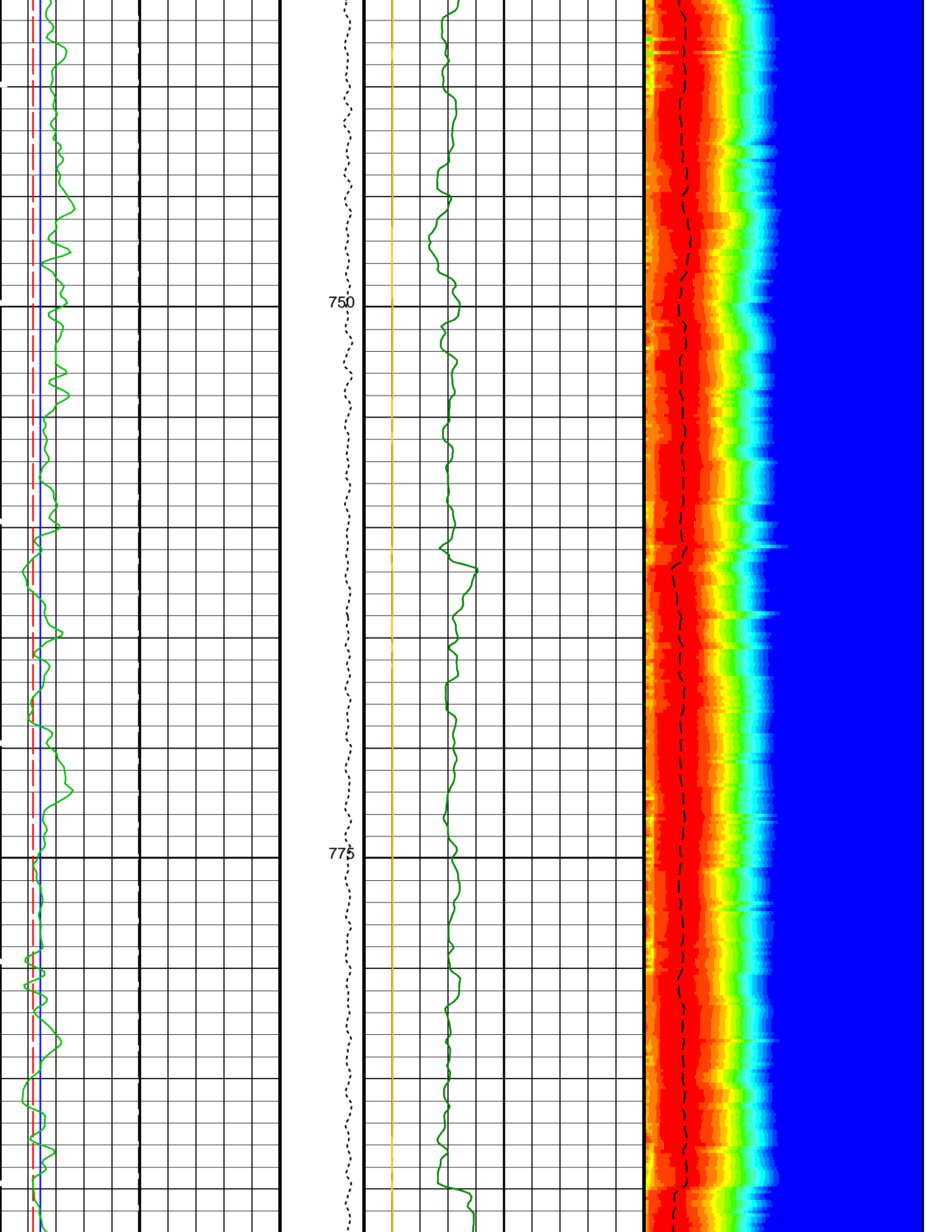


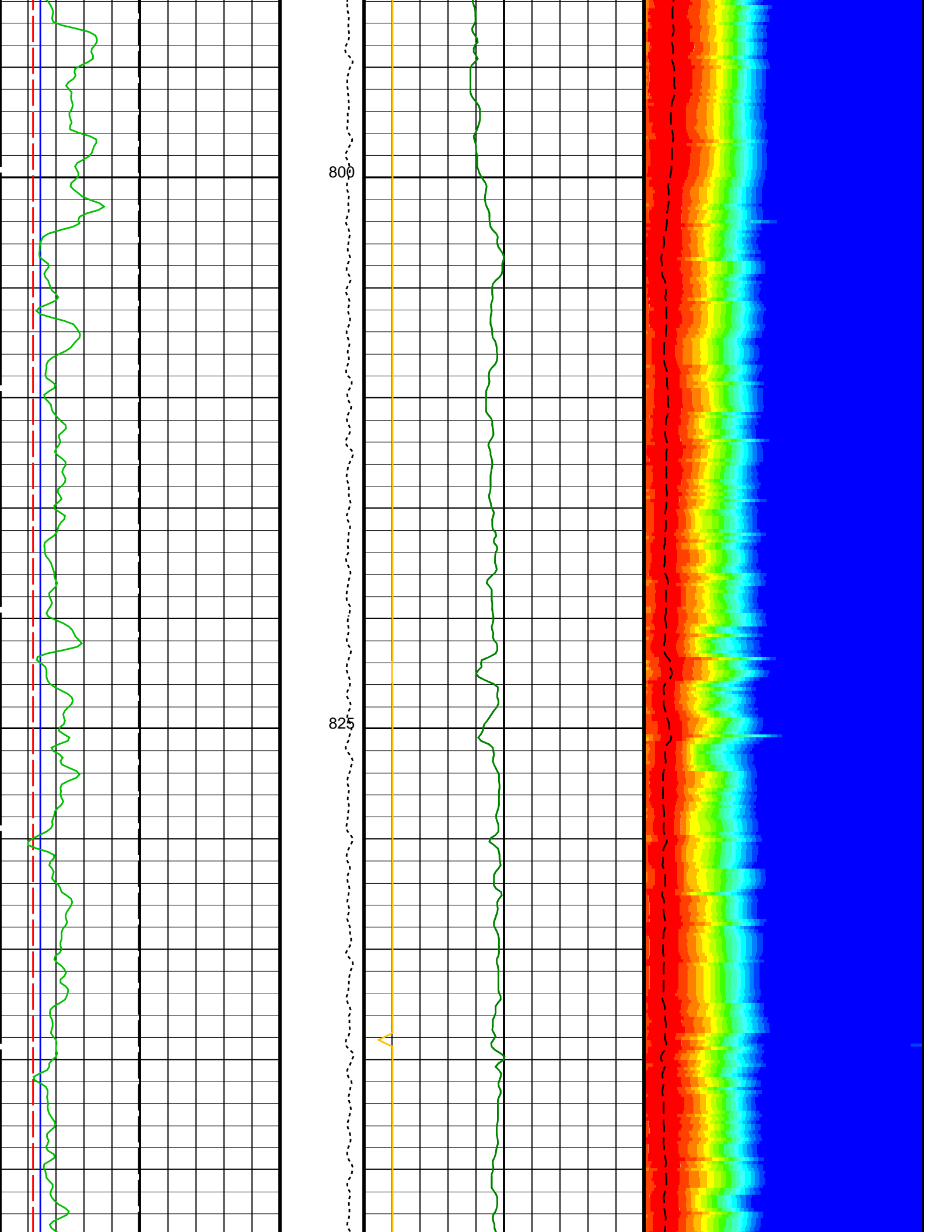


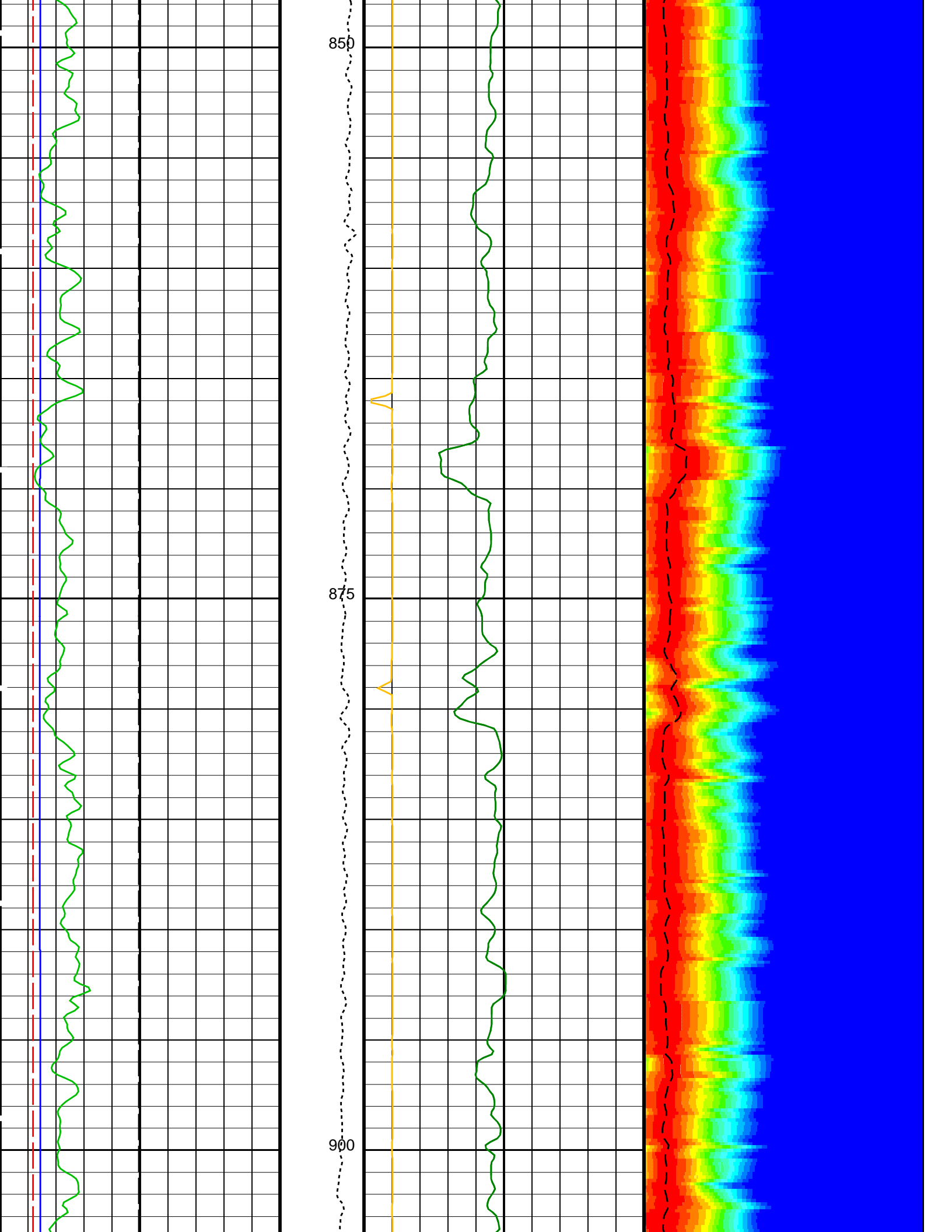


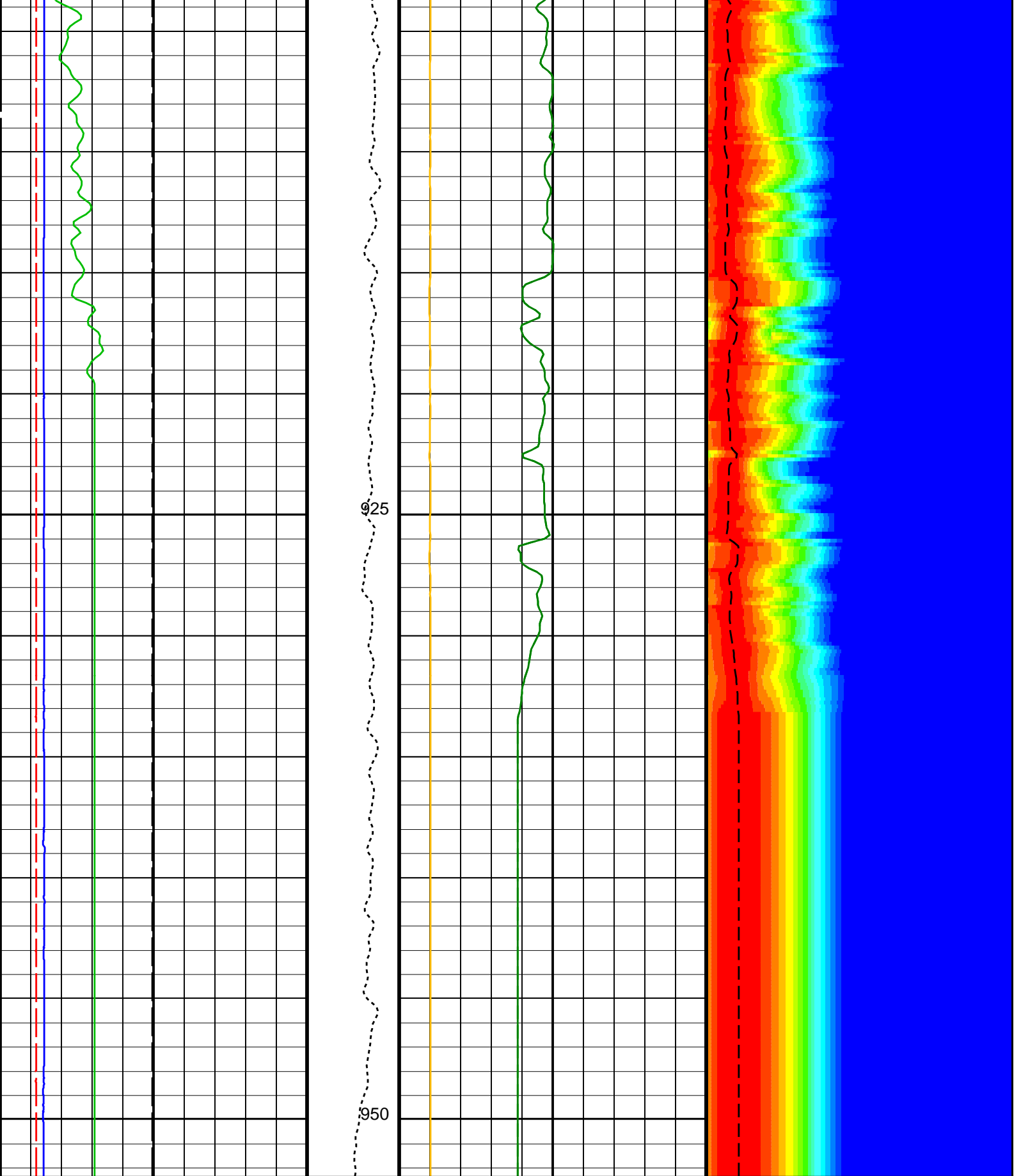












0 Bit Size (BS) (IN) 20

0 Tension (TENS) (LBF) 5000

0 Peak Coherence / RA - Stoneley (CHR3) (----) 10

180 Delta-T Stoneley / RA (DT3R) (US/F) 1200

0 Caliper 1 (C1) (IN) 20

440 Delta-T Stoneley / RA (DT3R) (US/F) 40

Min Amplitude Max
 Rec.Array Stoneley Slow Proj. CVDL (SPR3) (US/F)
 180 1200

Caliper 2 (C2)		Delta-T Stoneley (DTST)		180	(US/F)	1200
0	(IN)	20	440	(US/F)	40	
Gamma Ray (GR_EDTC)						
0	(GAPI)	150				

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	ODD	
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	1200	US/F
SUL3	STC Slowness Upper Limit - Monopole Stoneley	1200	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	15800	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	-2123.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 25-Apr-2014 04:25

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_044LUP	PRODUCER	25-Apr-2014 03:46	3075.9 M	2098.5 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_047PUP	FN:57	PRODUCER	25-Apr-2014 04:25
CLIENT	FMS_DSI_NGS_047PUC	FN:58	CUSTOMER	25-Apr-2014 04:25

Company: Lamont Doherty Earth Observatory

Well: Expedition 350, Site U1437D

Input DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:28	PRODUCER	22-Apr-2014 20:12	3074.7 M	2750.5 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_052PUP	FN:67	PRODUCER	25-Apr-2014 04:57	951.0 M	627.6 M
CLIENT	FMS_DSI_NGS_052PUC	FN:68	CUSTOMER	25-Apr-2014 04:57	951.0 M	627.6 M

OP System Version: 19C0-187

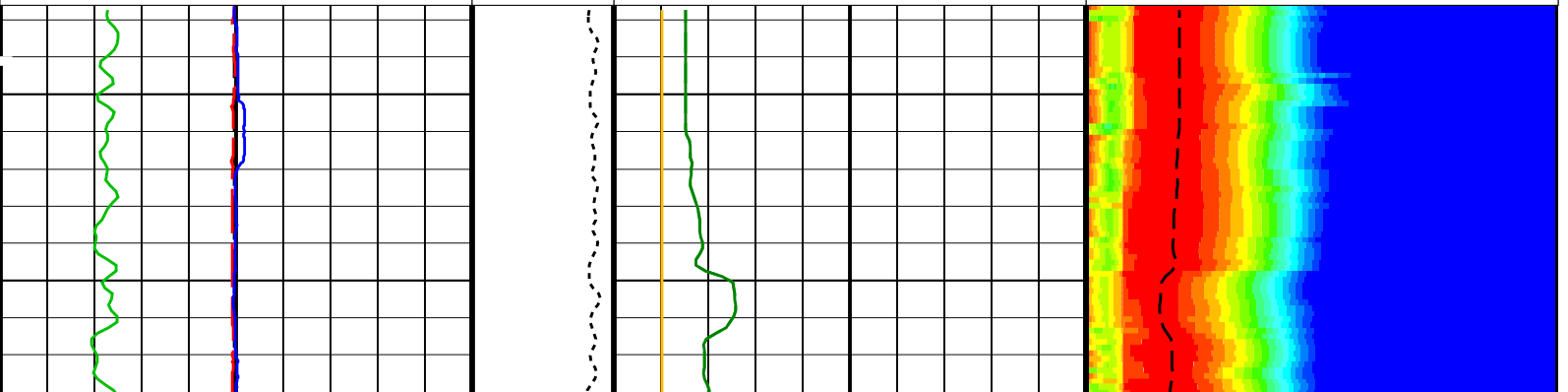
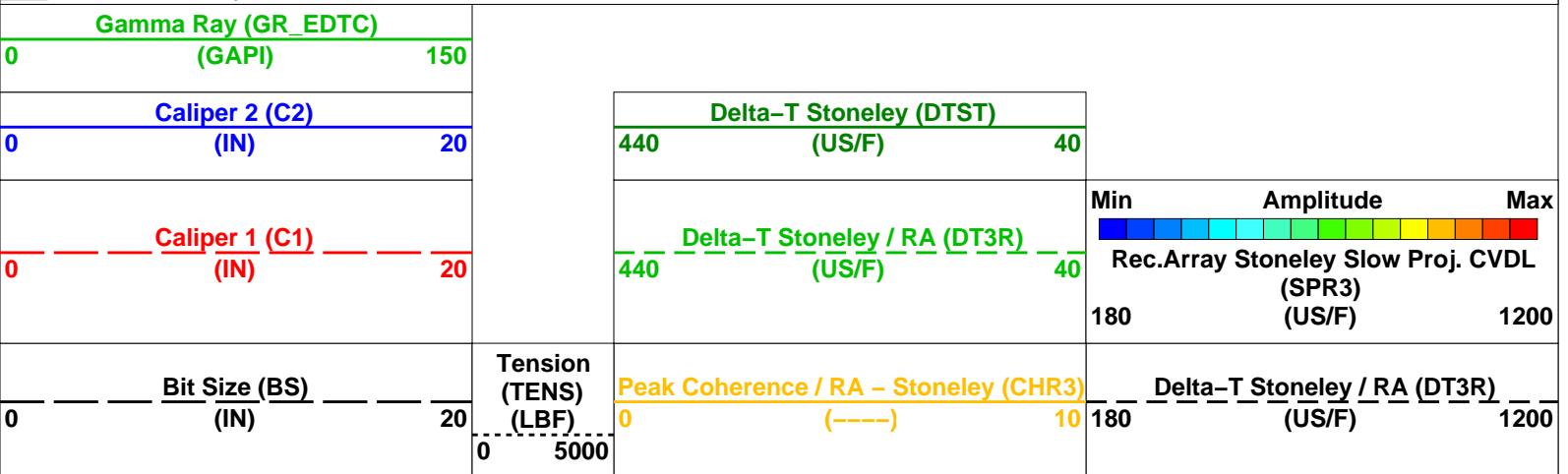
MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

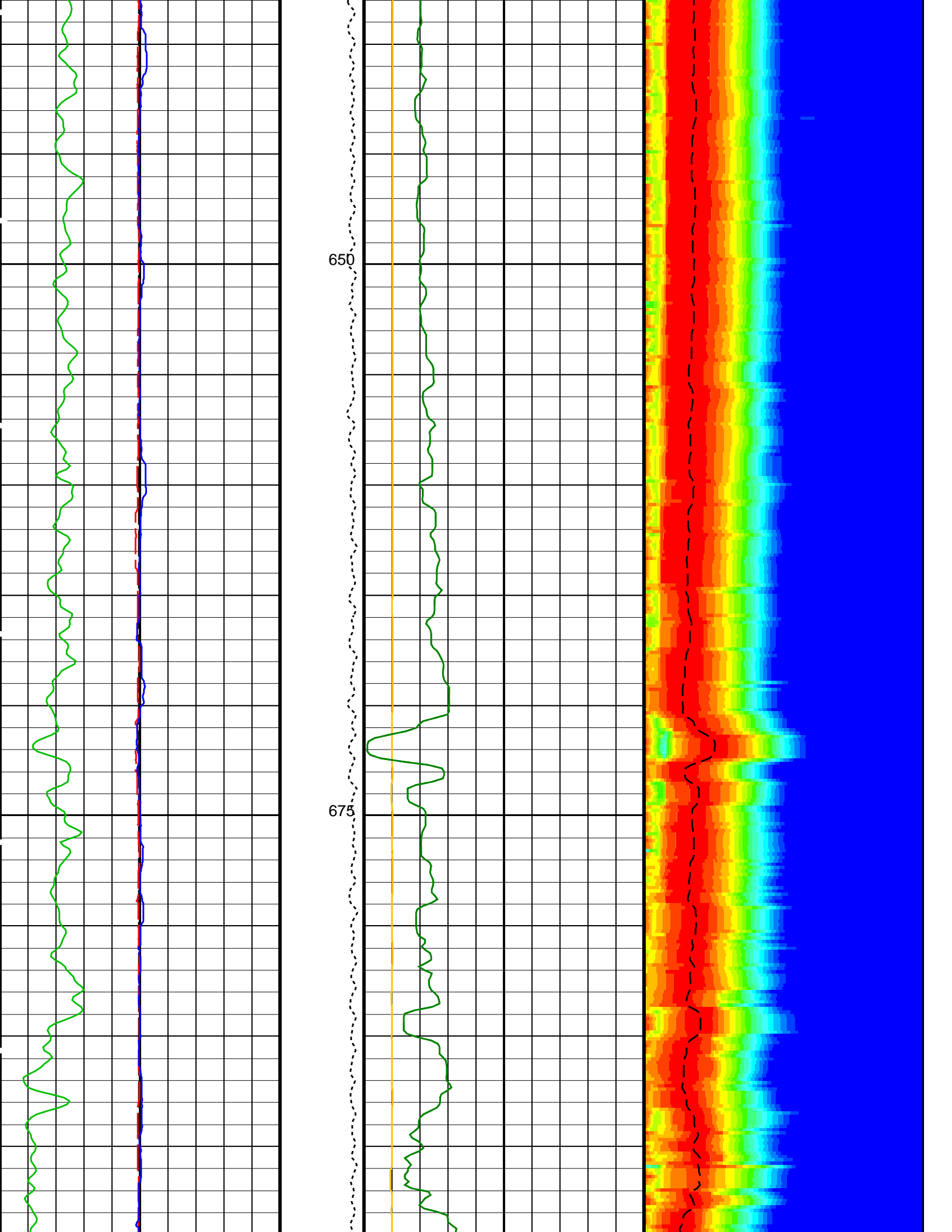
Changed Parameter Summary

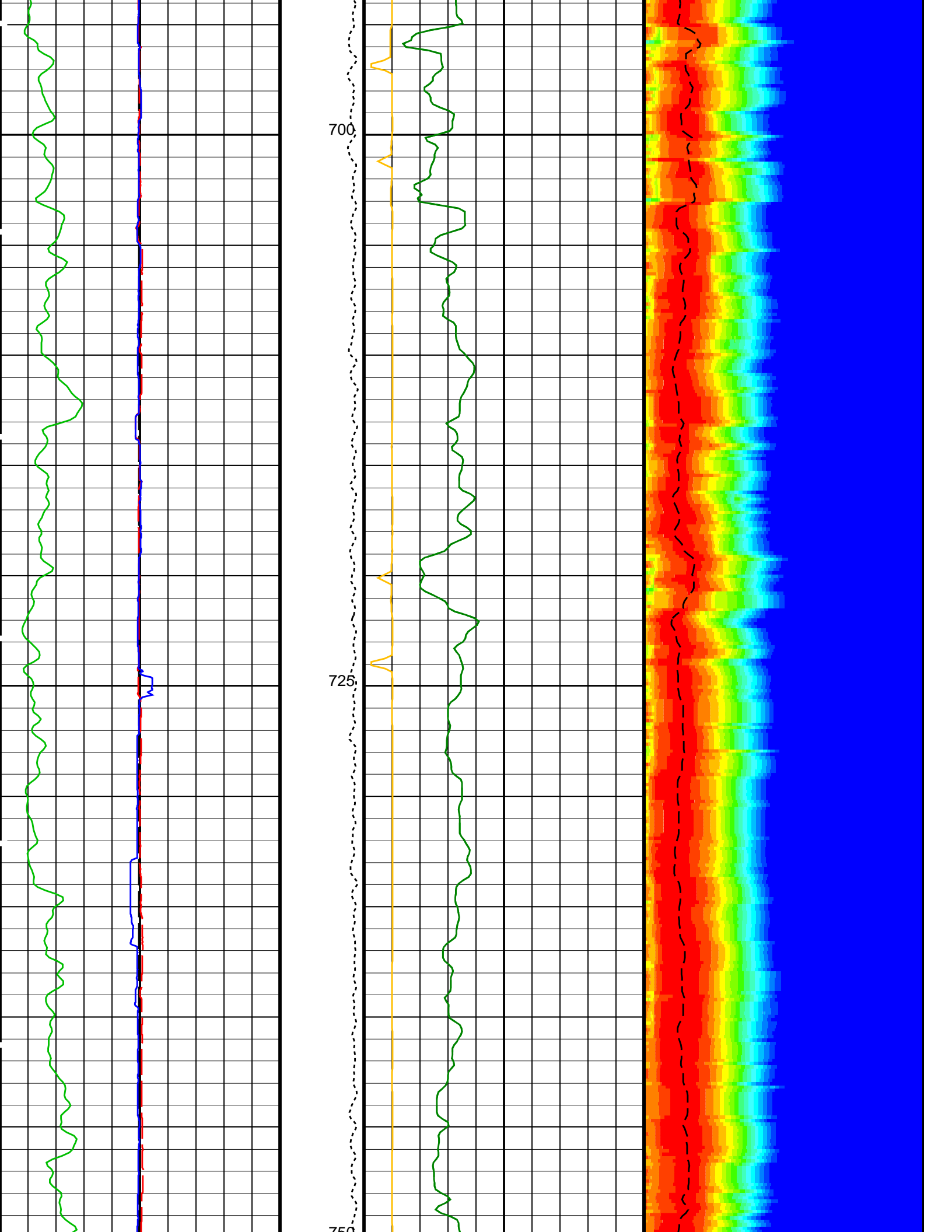
DLIS Name	New Value	Previous Value	Depth & Time
STLL	180 US/F	180 US/F	951.0 04:57:05
	180 US/F	180 US/F	799.9 04:57:25

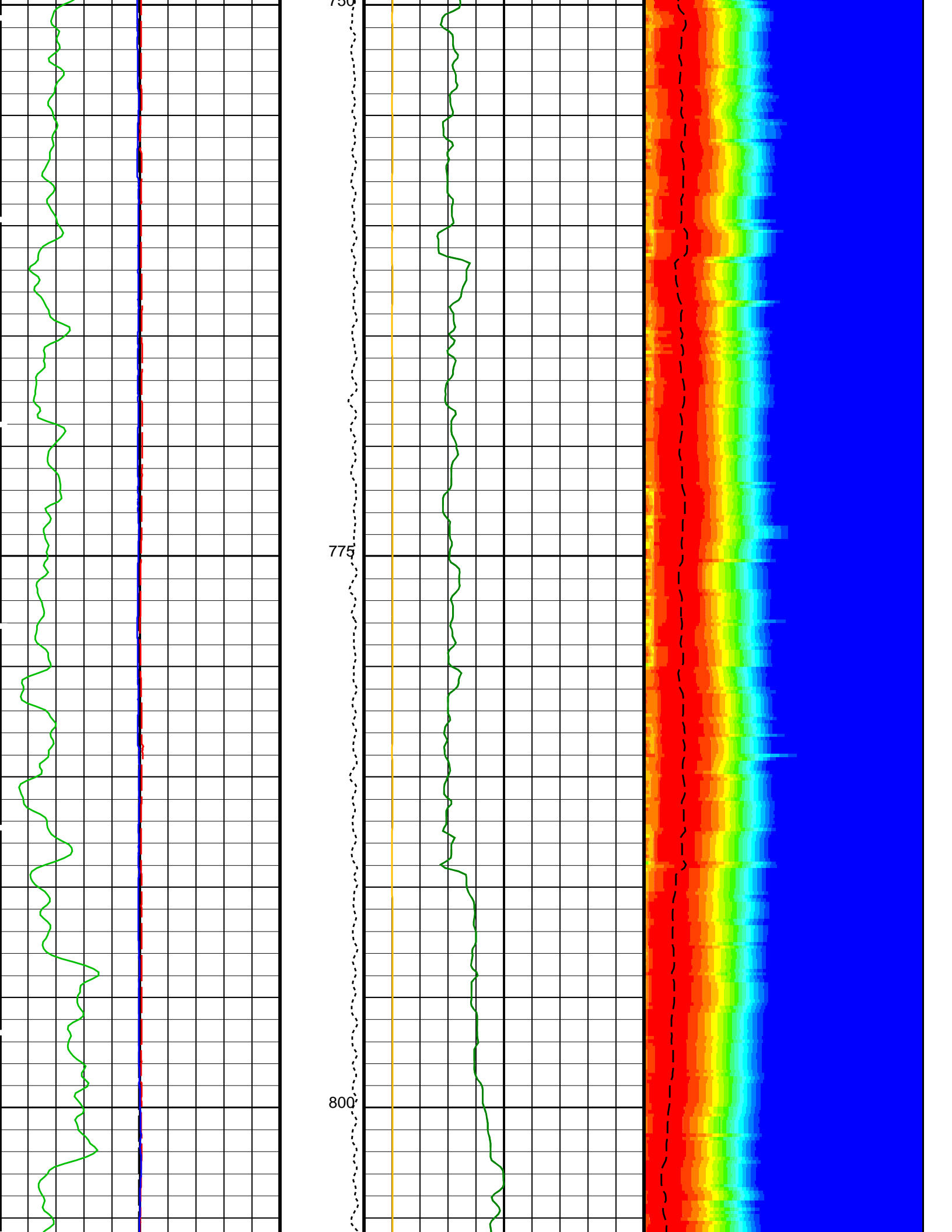
PIP SUMMARY

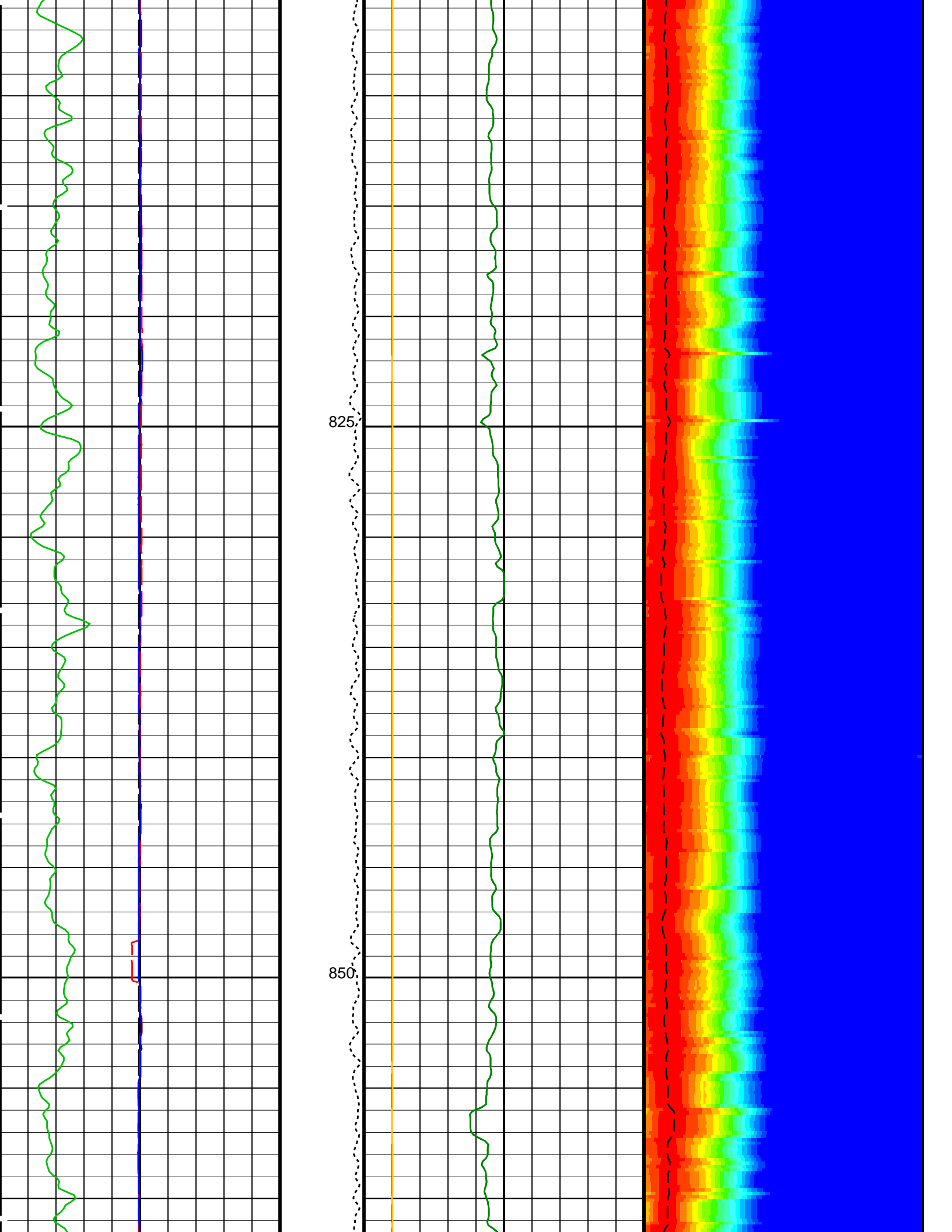
Time Mark Every 60 S

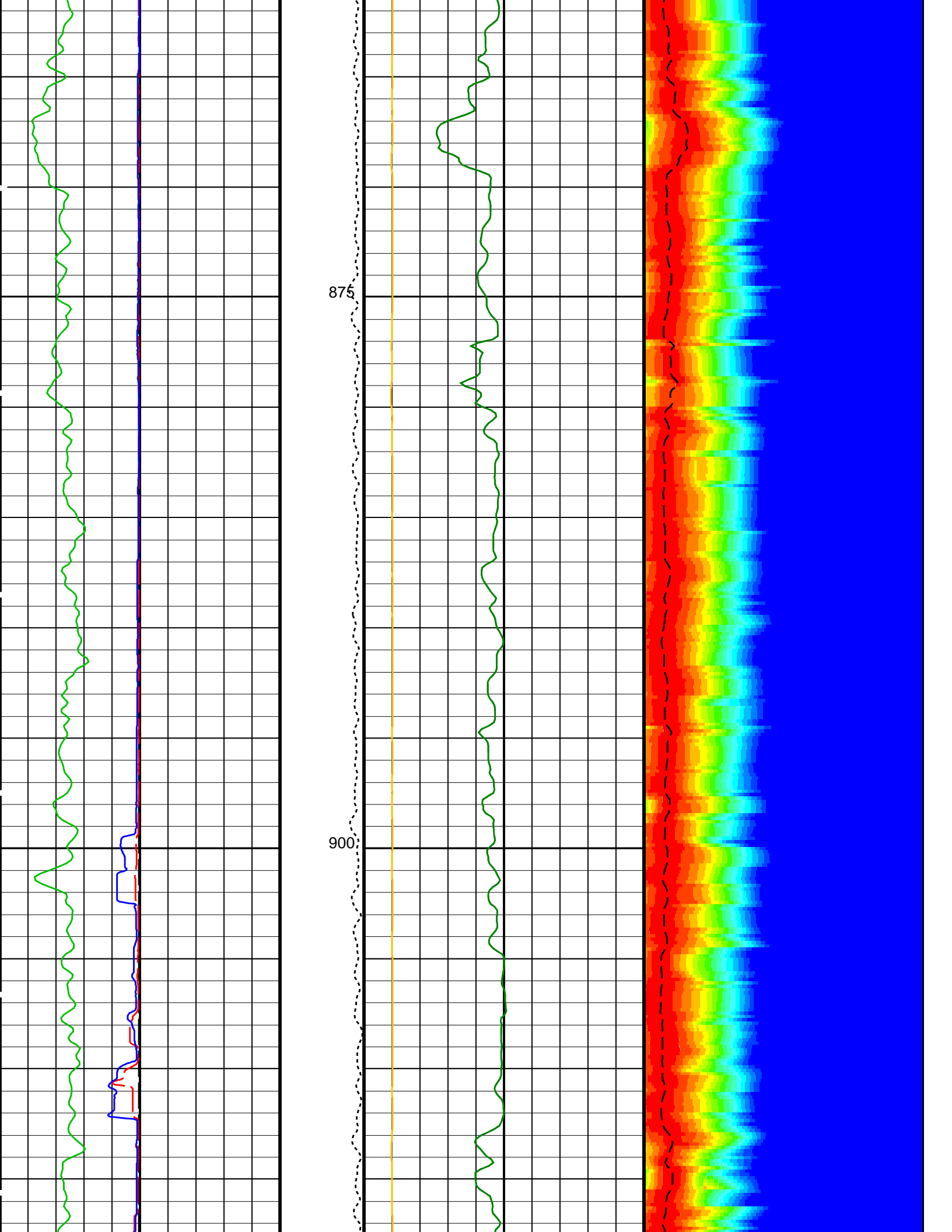


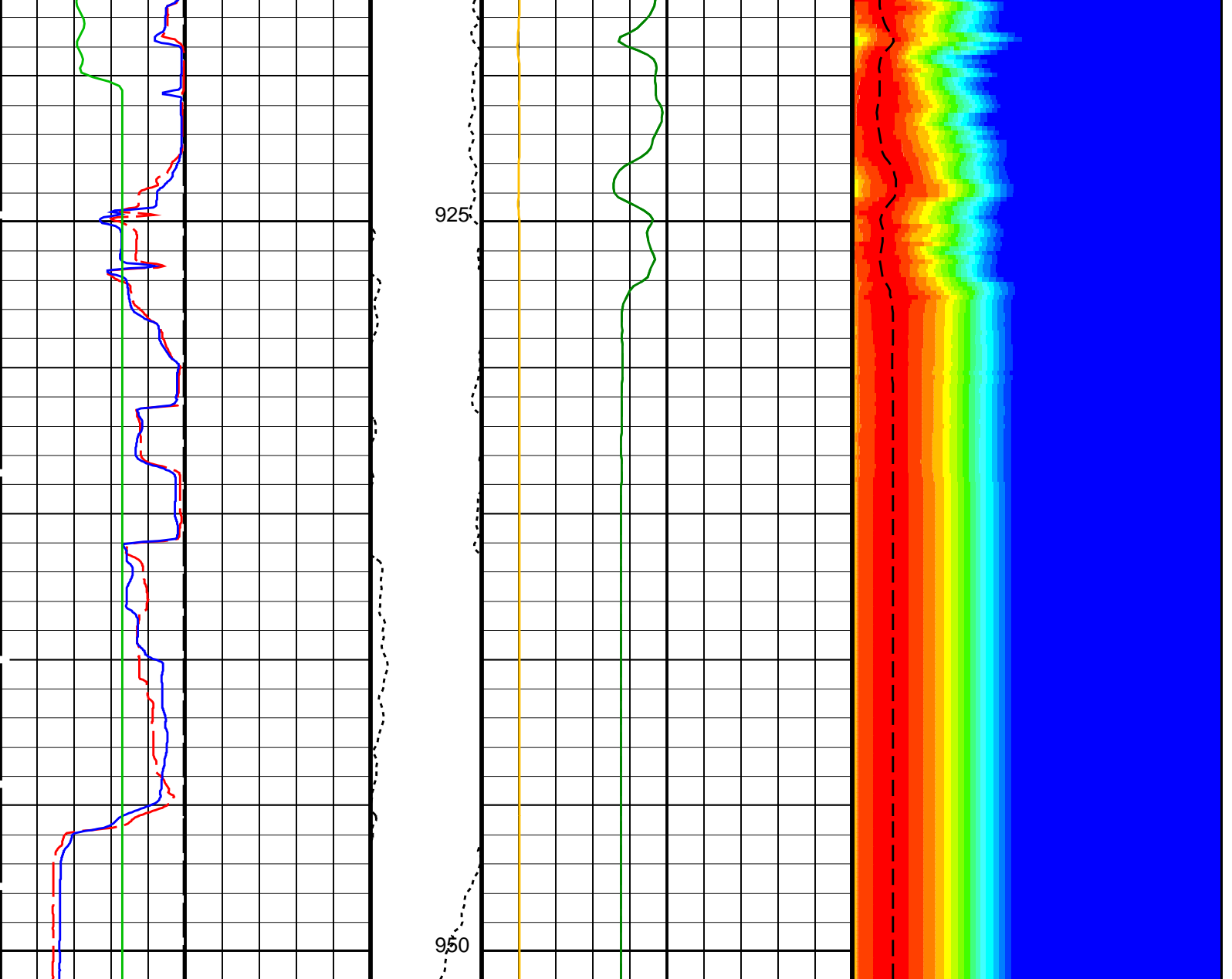












0	Bit Size (BS) (IN)	20	0	Tension (TENS) (LBF)	5000	0	Peak Coherence / RA - Stoneley (CHR3) (-----)	10	180	Delta-T Stoneley / RA (DT3R) (US/F)	1200
0	Caliper 1 (C1) (IN)	20	440	Delta-T Stoneley / RA (DT3R) (US/F)	40	180	Delta-T Stoneley / RA (DT3R) (US/F)	40	180	Delta-T Stoneley / RA (DT3R) (US/F)	1200
0	Caliper 2 (C2) (IN)	20	440	Delta-T Stoneley (DTST) (US/F)	40	180	Delta-T Stoneley (DTST) (US/F)	40	180	Delta-T Stoneley / RA (DT3R) (US/F)	1200
0	Gamma Ray (GR_EDTC) (GAPI)	150									

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
DTC3	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	ODD	
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	1200	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	1200	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	15800	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	-2122.9	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 25-Apr-2014 04:57

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:28	PRODUCER	22-Apr-2014 20:12	3074.7 M	2750.5 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_052PUP	FN:67	PRODUCER	25-Apr-2014 04:57
CLIENT	FMS_DSI_NGS_052PUC	FN:68	CUSTOMER	25-Apr-2014 04:57

Schlumberger

**Main Pass
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 350, Site U1437D

Input DLIS Files

DEFAULT	FMS_DSI_NGS_026LUP	FN:30	PRODUCER	22-Apr-2014 21:11	3070.1 M	2260.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_050PUP	FN:63	PRODUCER	25-Apr-2014 04:51	946.4 M	137.5 M
CLIENT	FMS_DSI_NGS_050PUC	FN:64	CUSTOMER	25-Apr-2014 04:51	946.4 M	137.5 M

OP System Version: 19C0-187

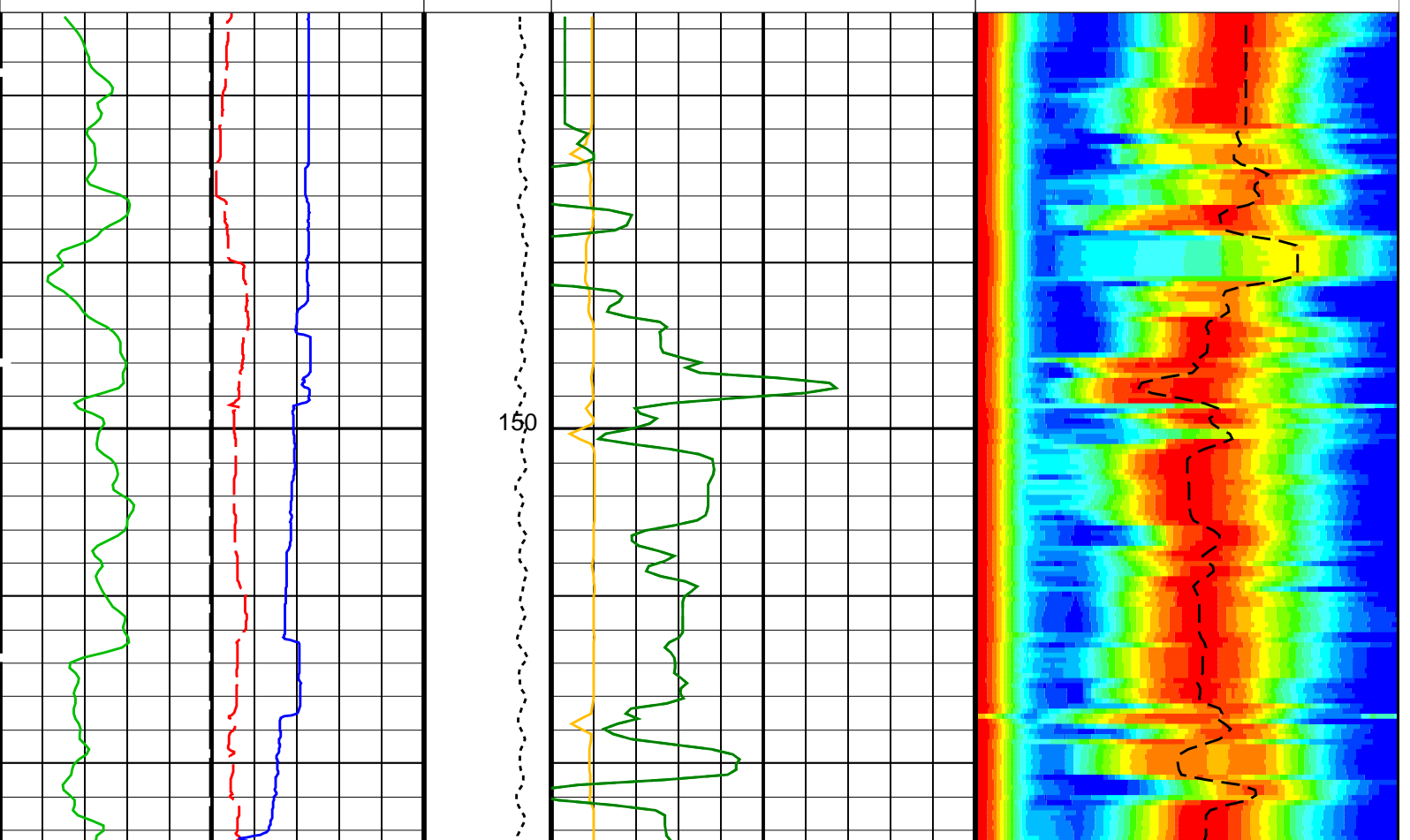
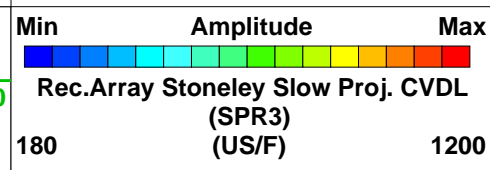
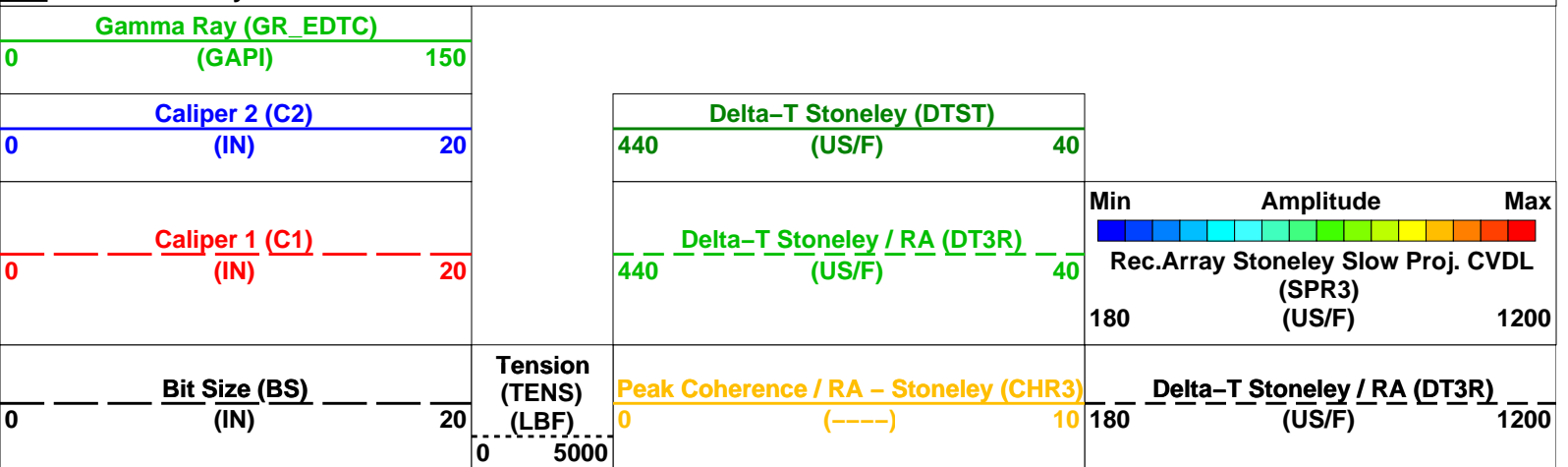
MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

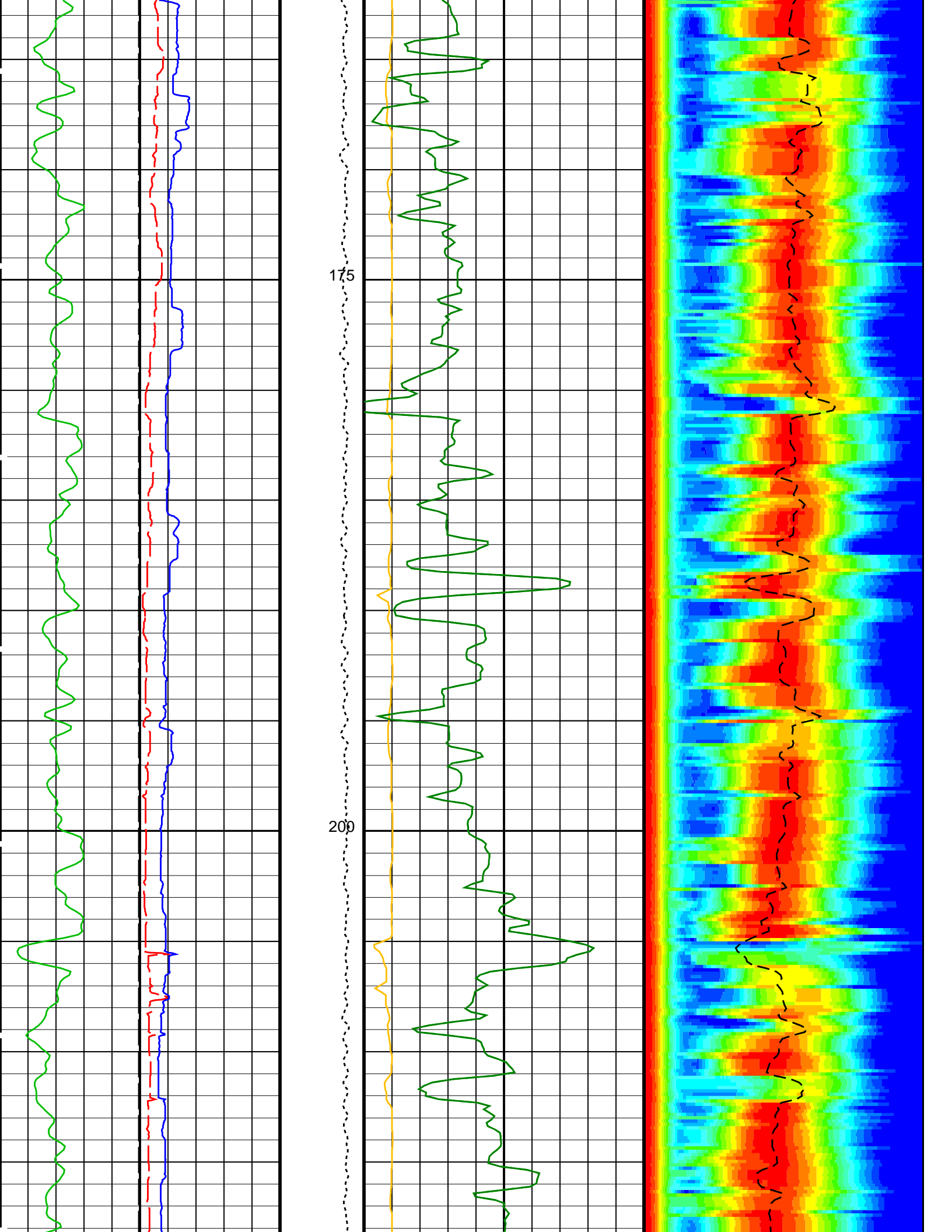
Changed Parameter Summary

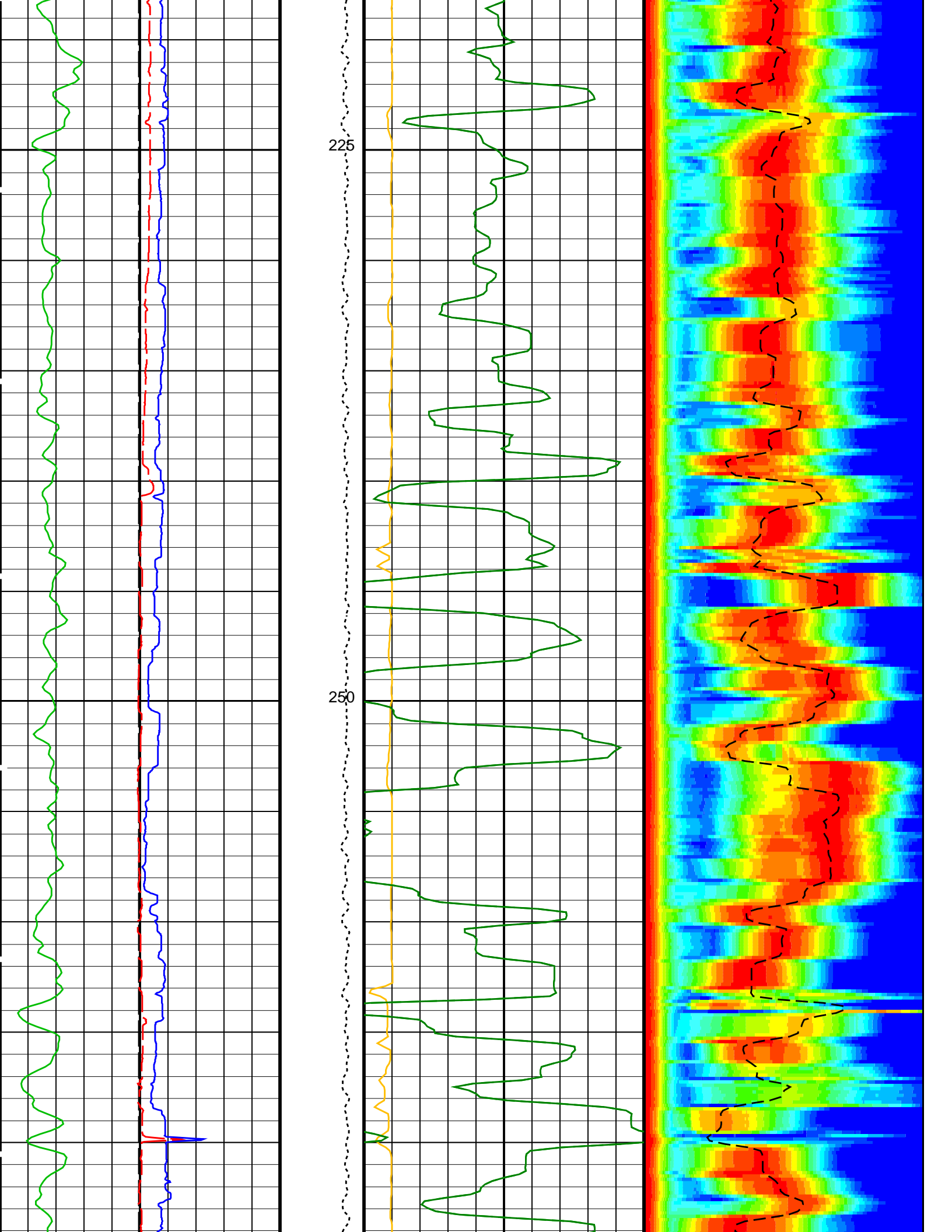
DLIS Name	New Value	Previous Value	Depth & Time
STLL	180 US/F	300 US/F	946.4 04:51:04
	180 US/F	180 US/F	799.9 04:51:22
	300 US/F	180 US/F	219.9 04:52:37

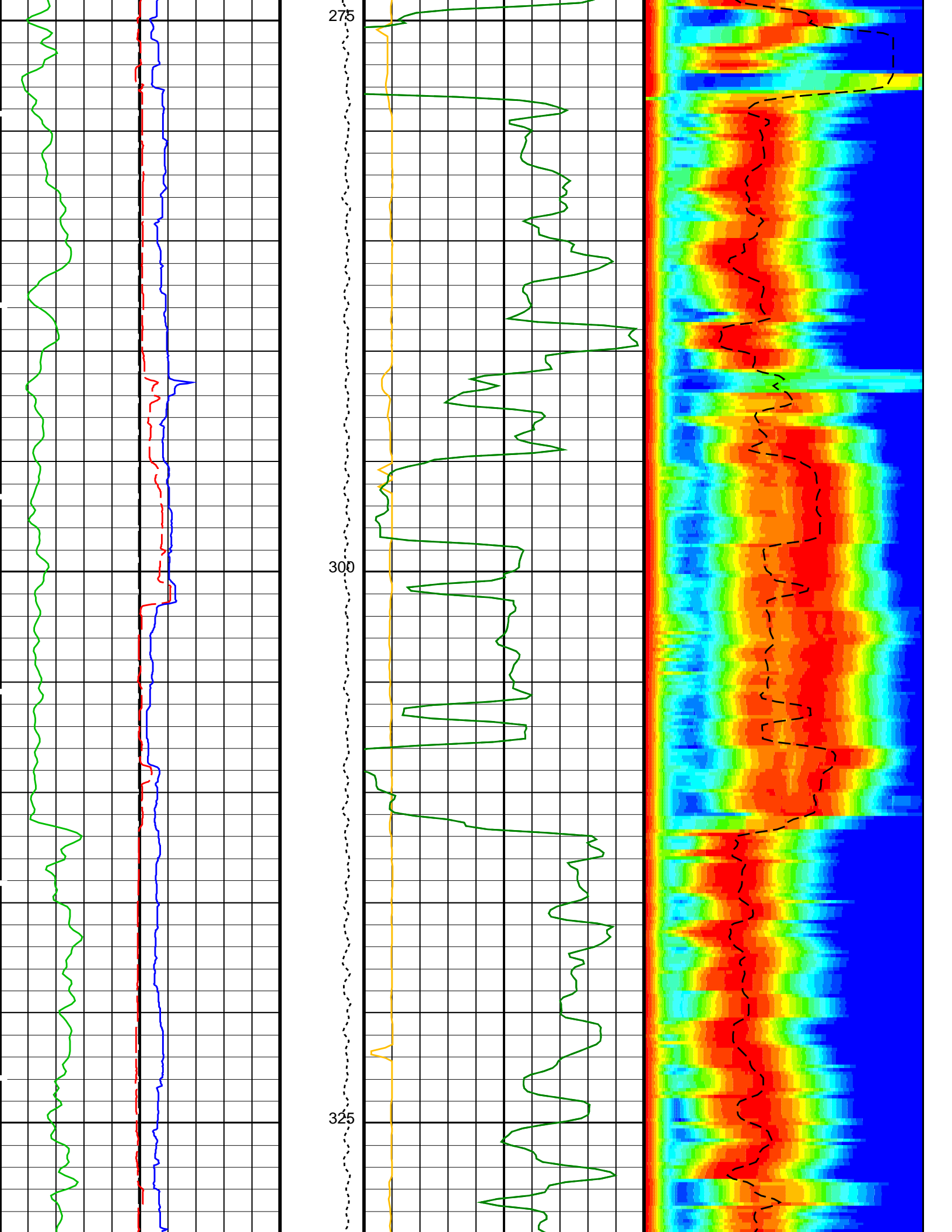
PIP SUMMARY

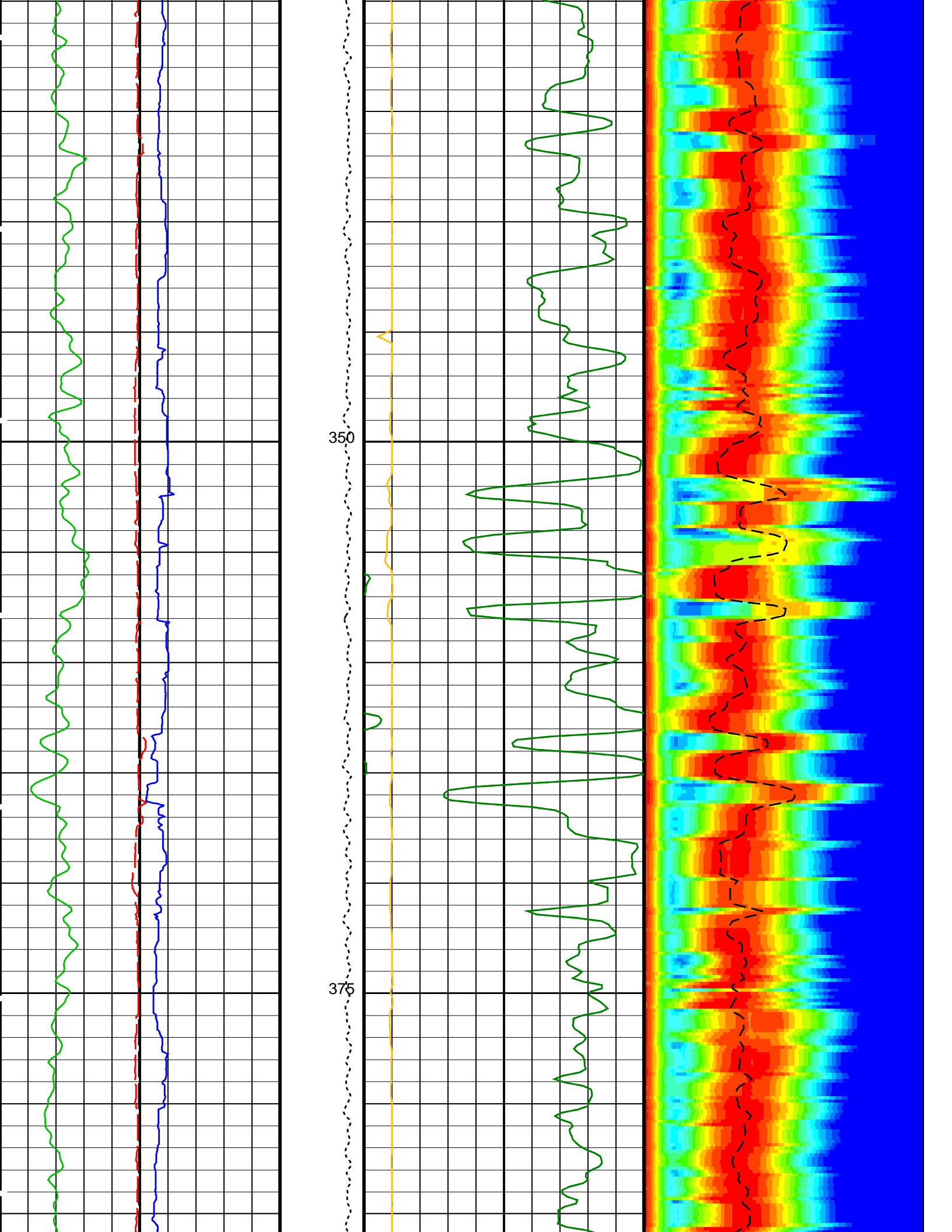
Time Mark Every 60 S

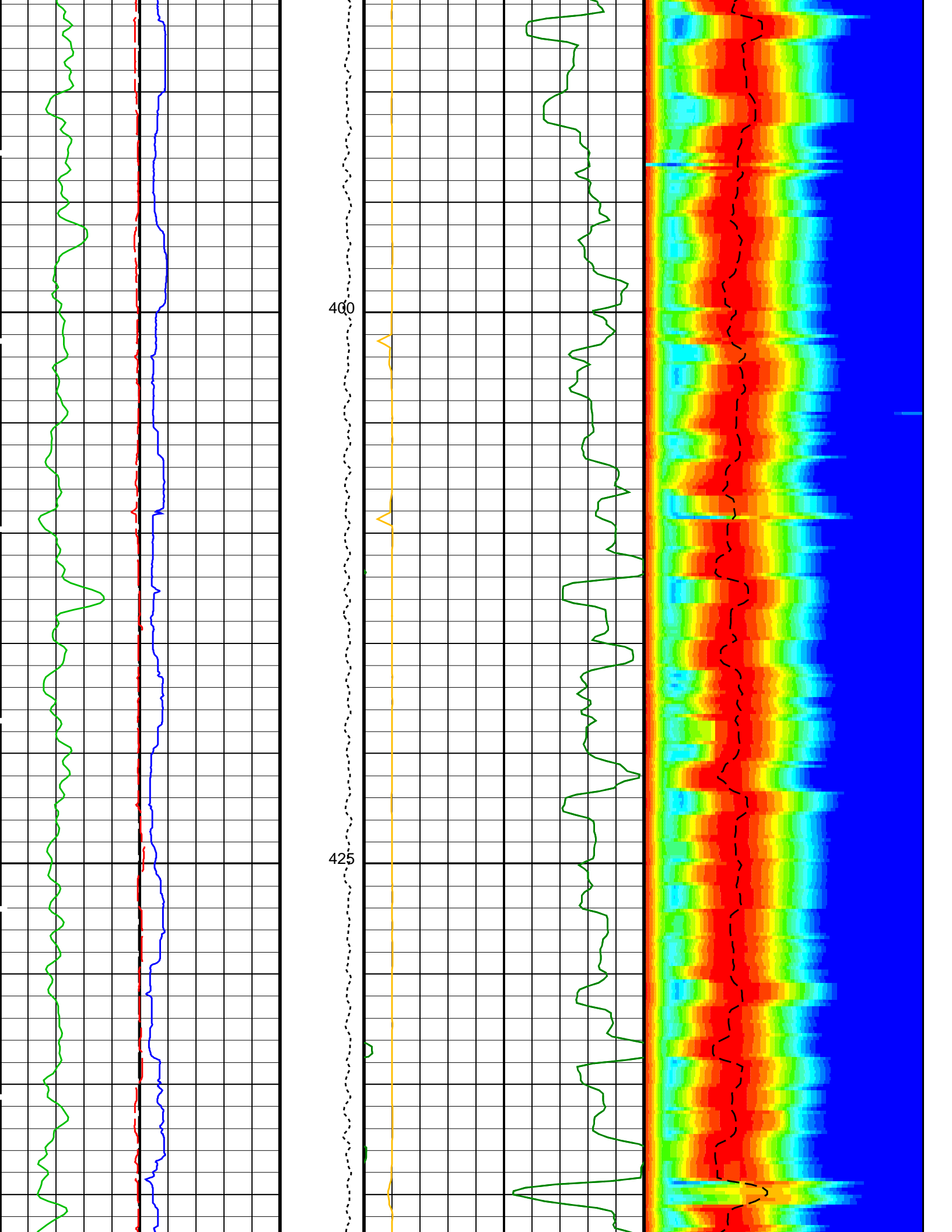


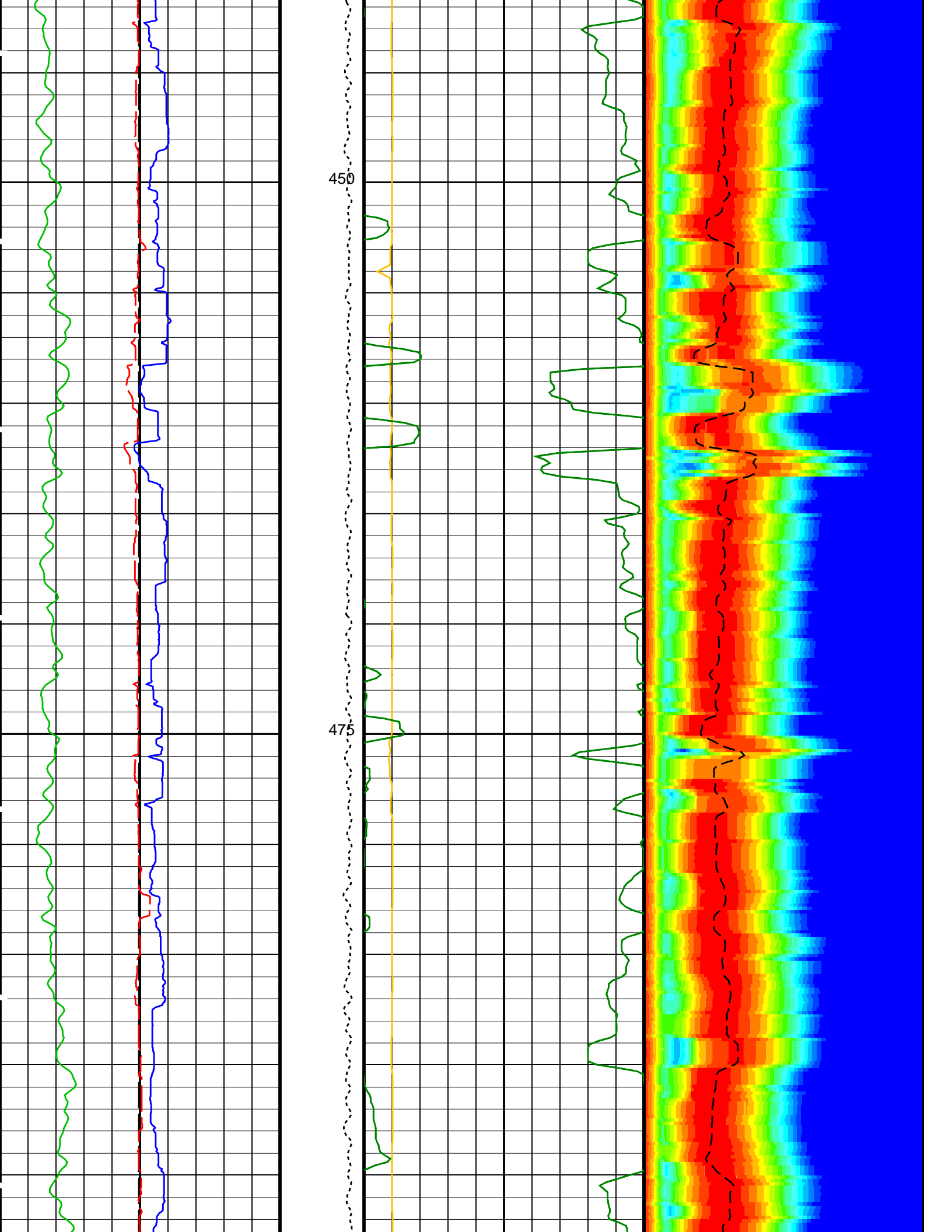


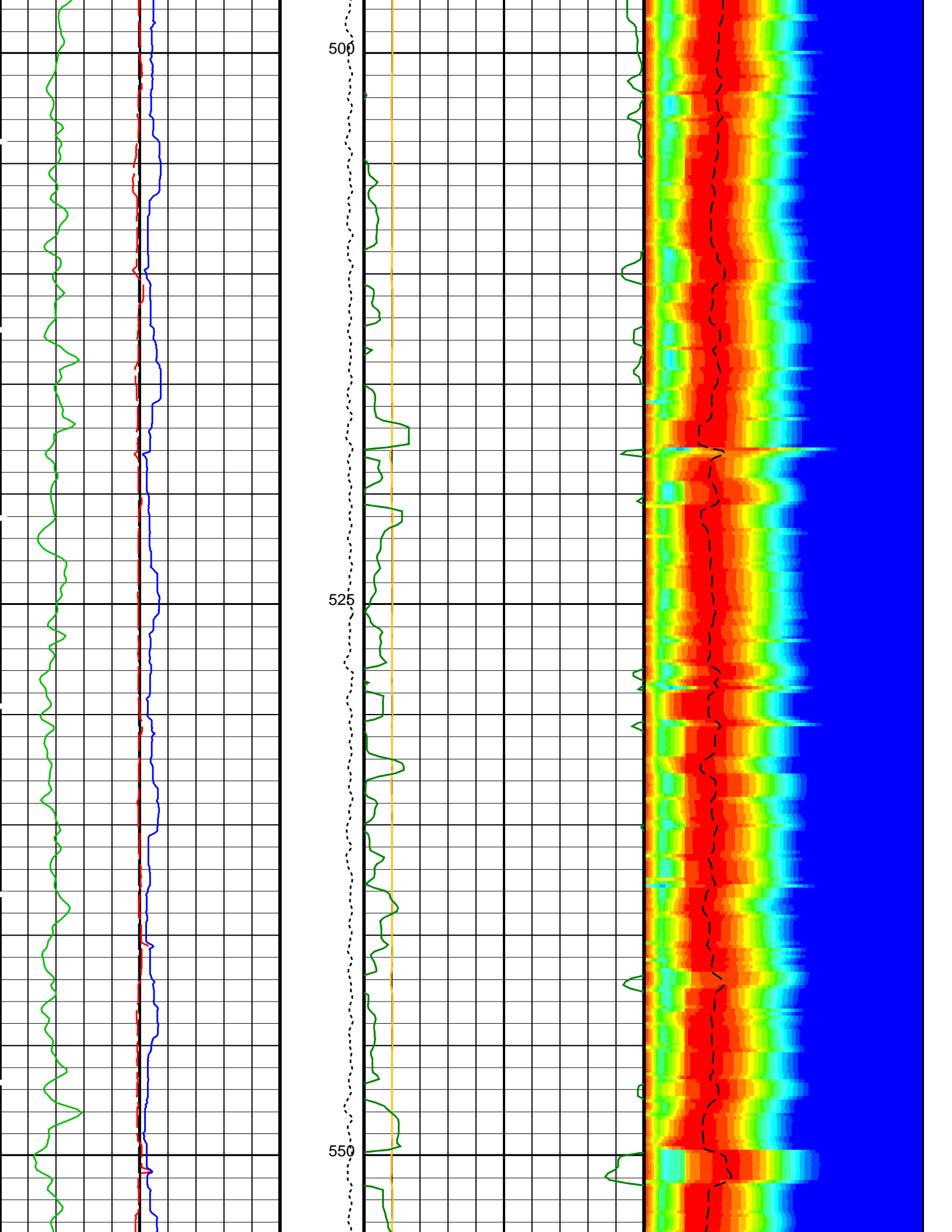


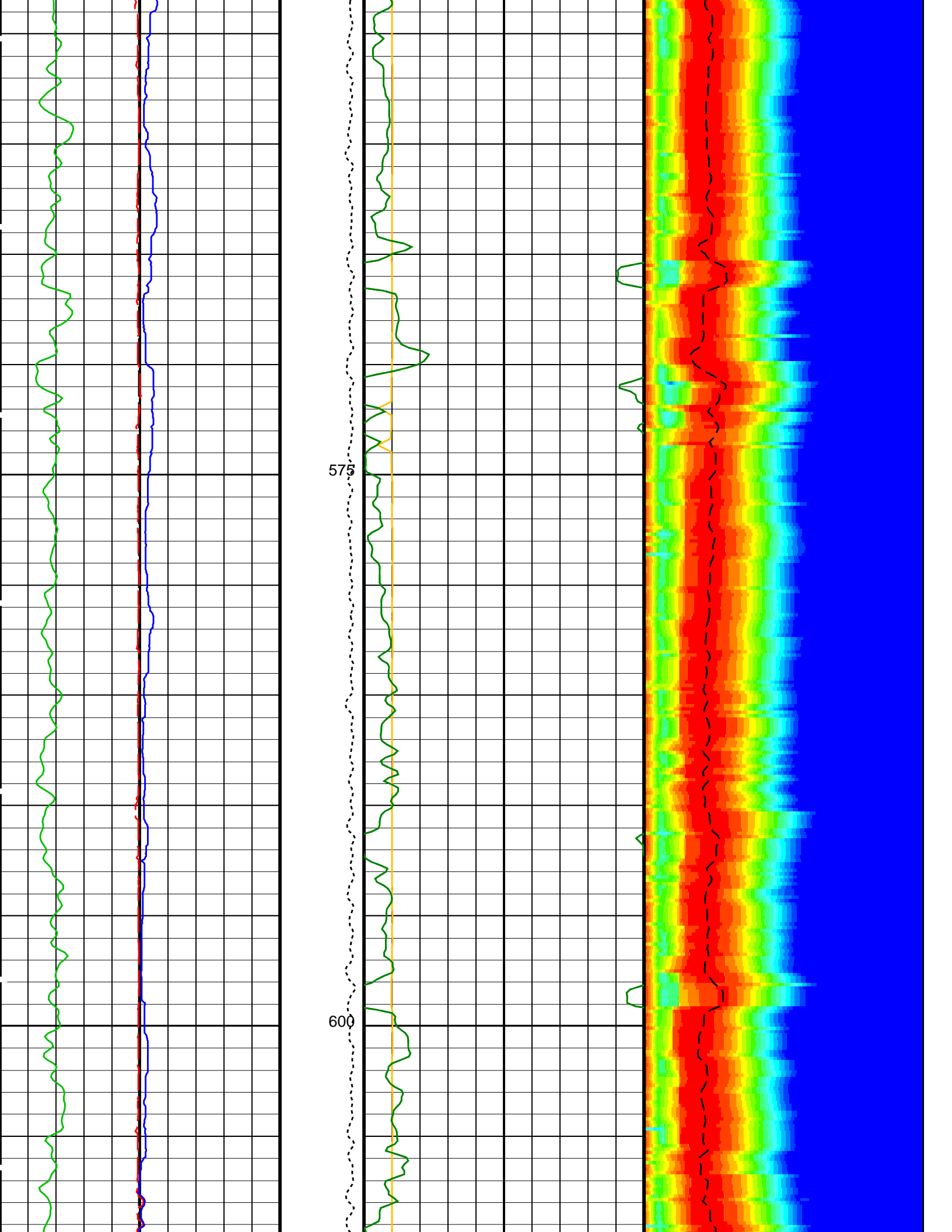


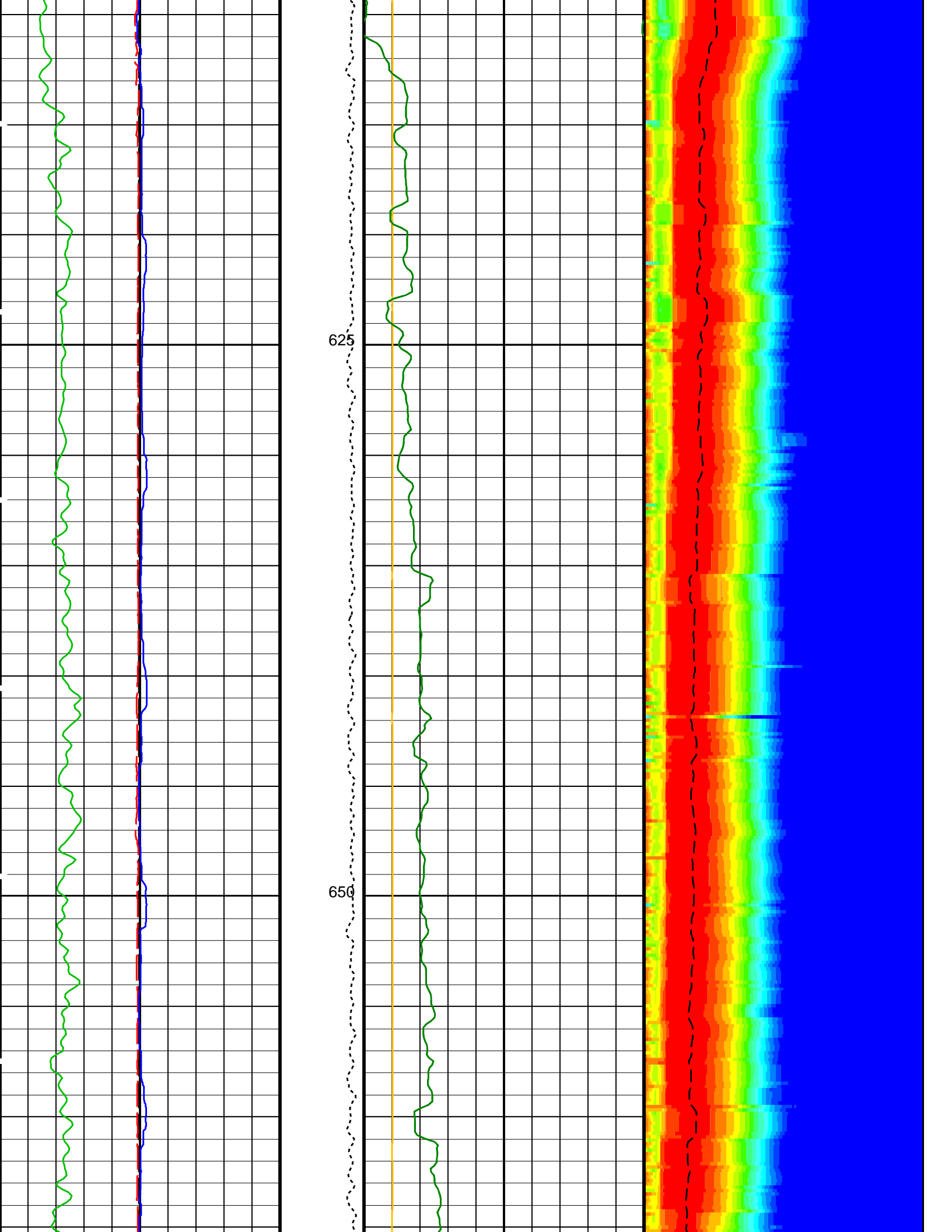


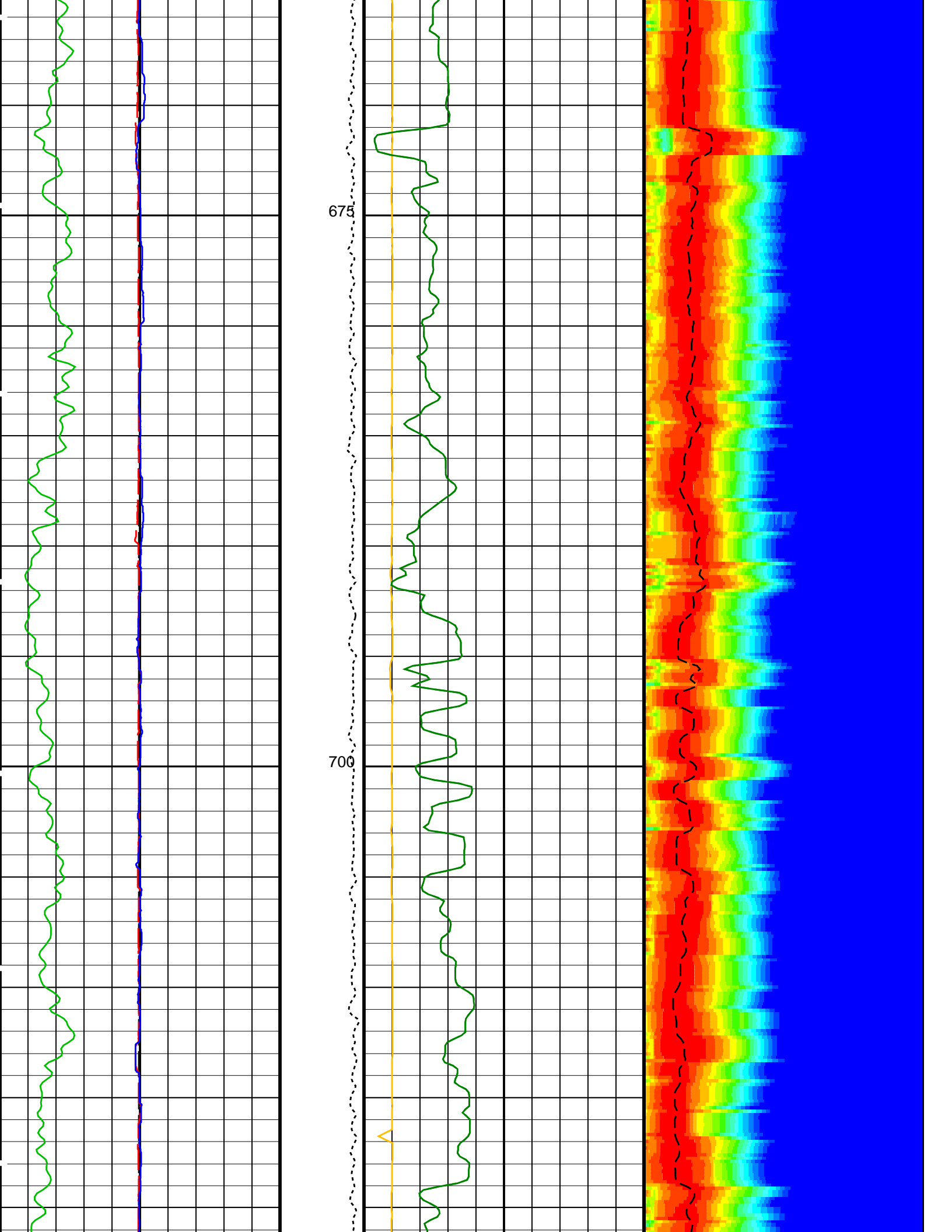


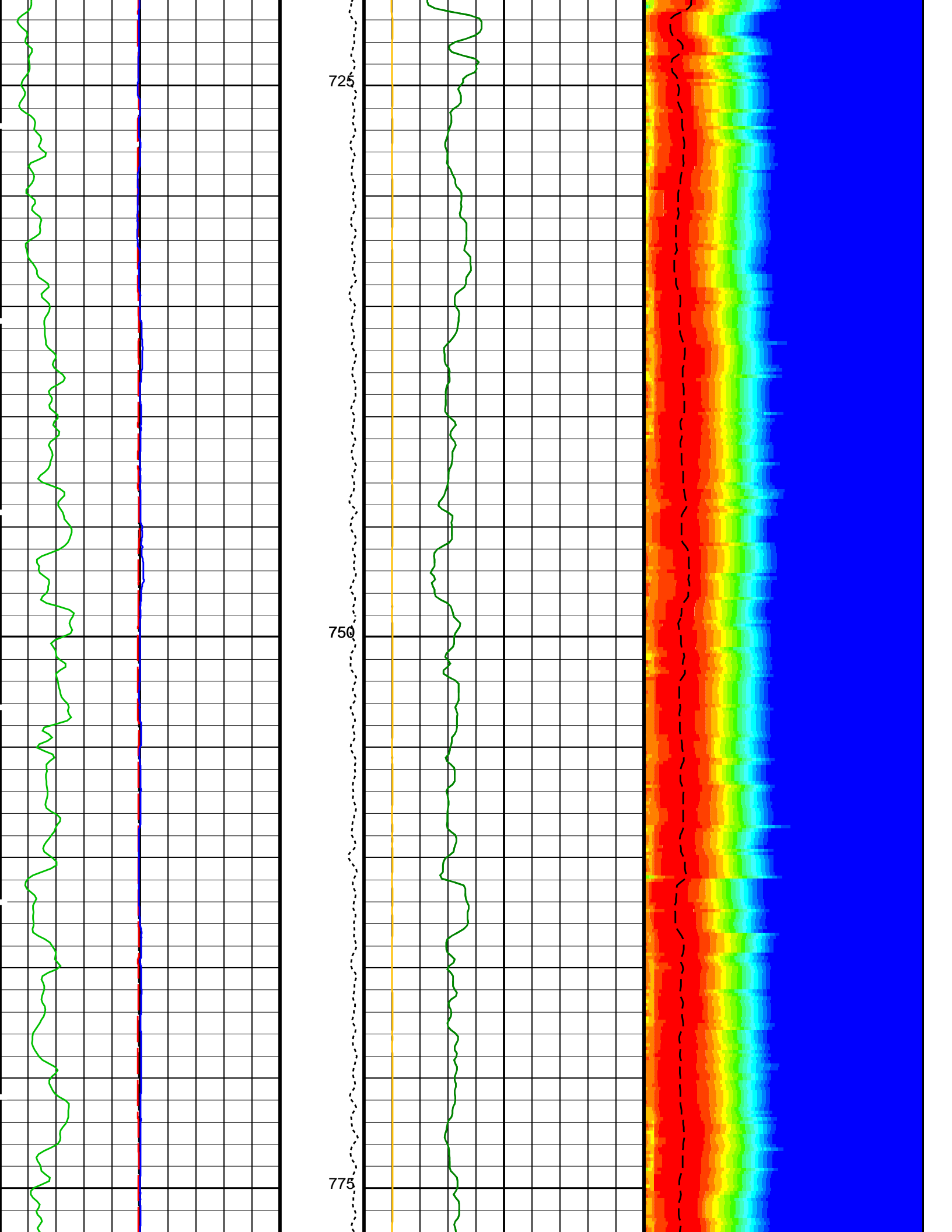


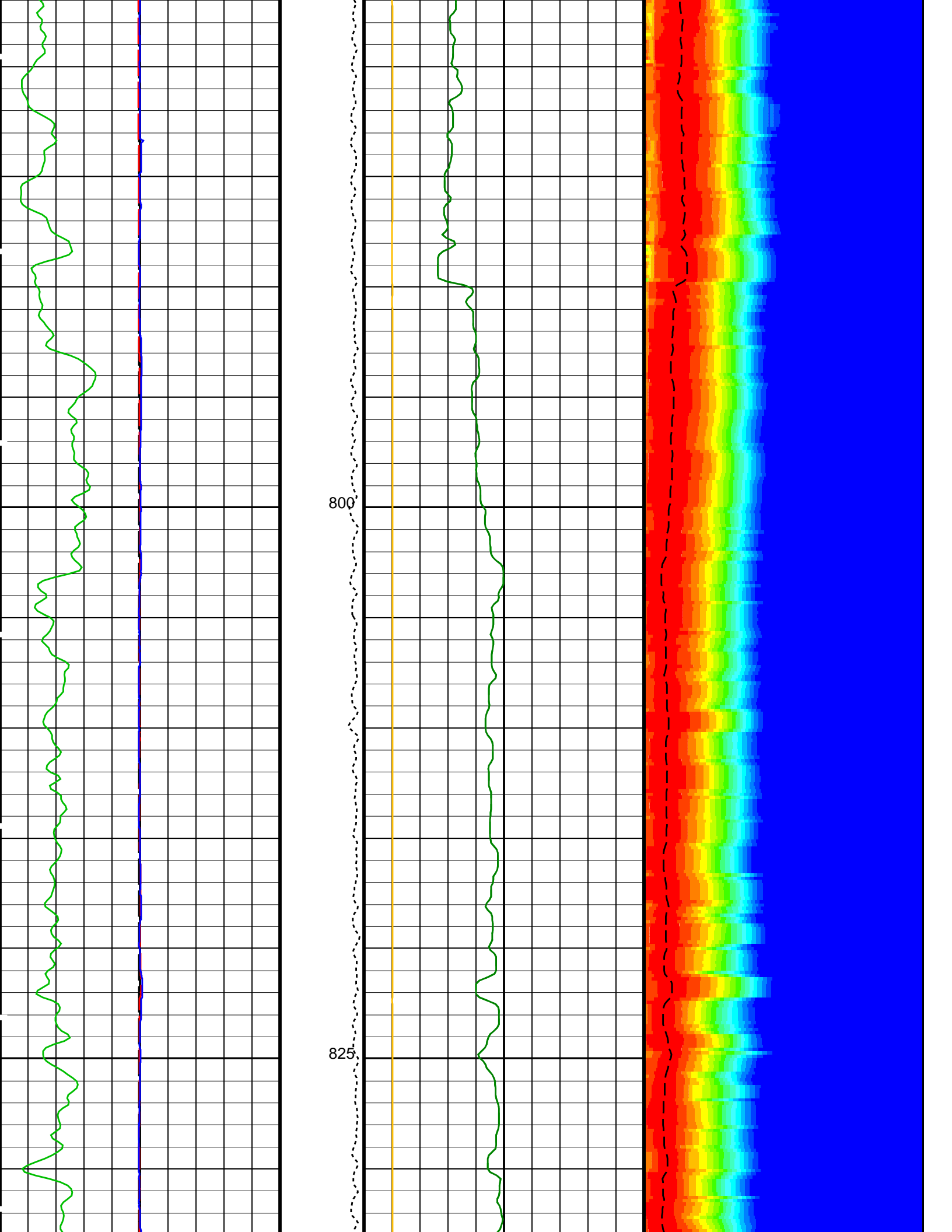


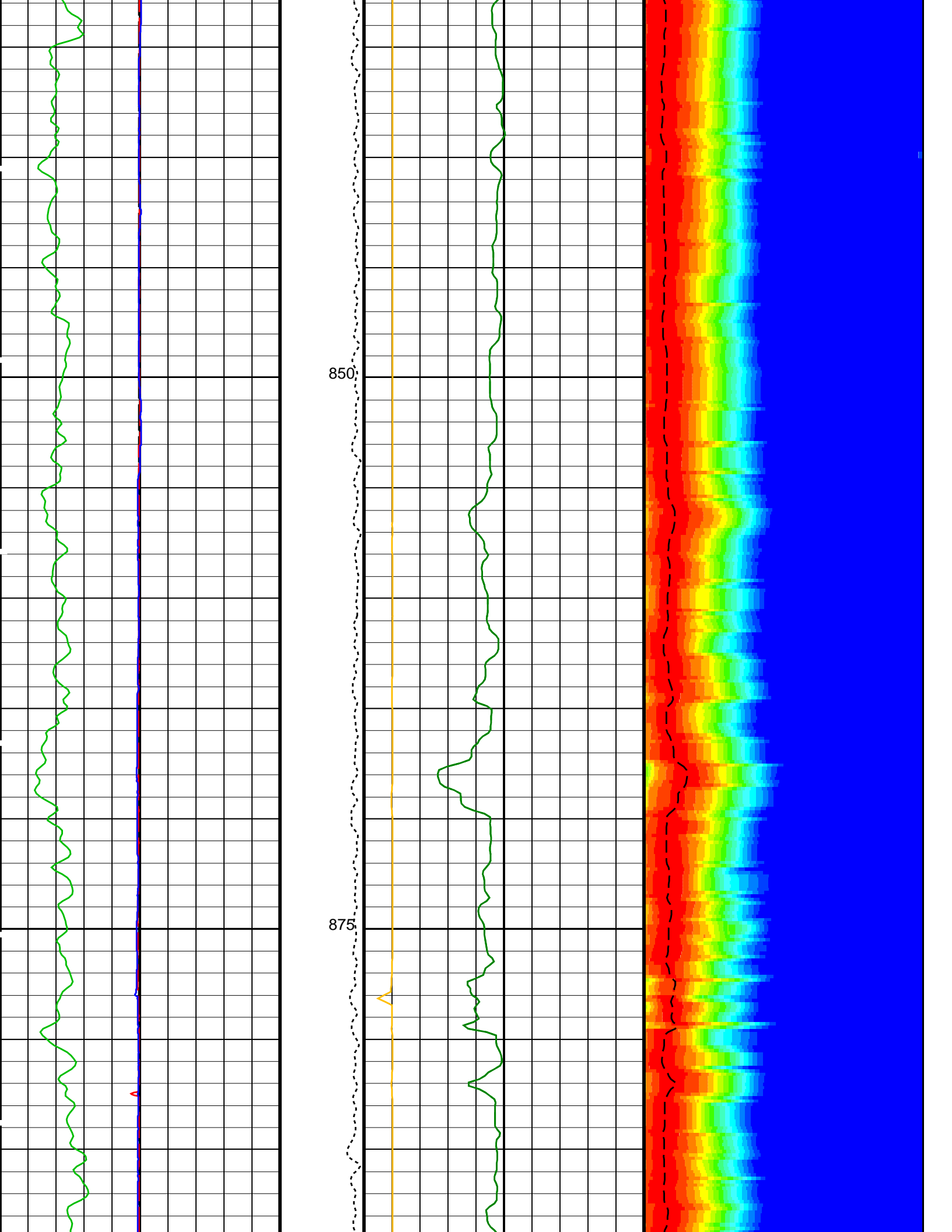


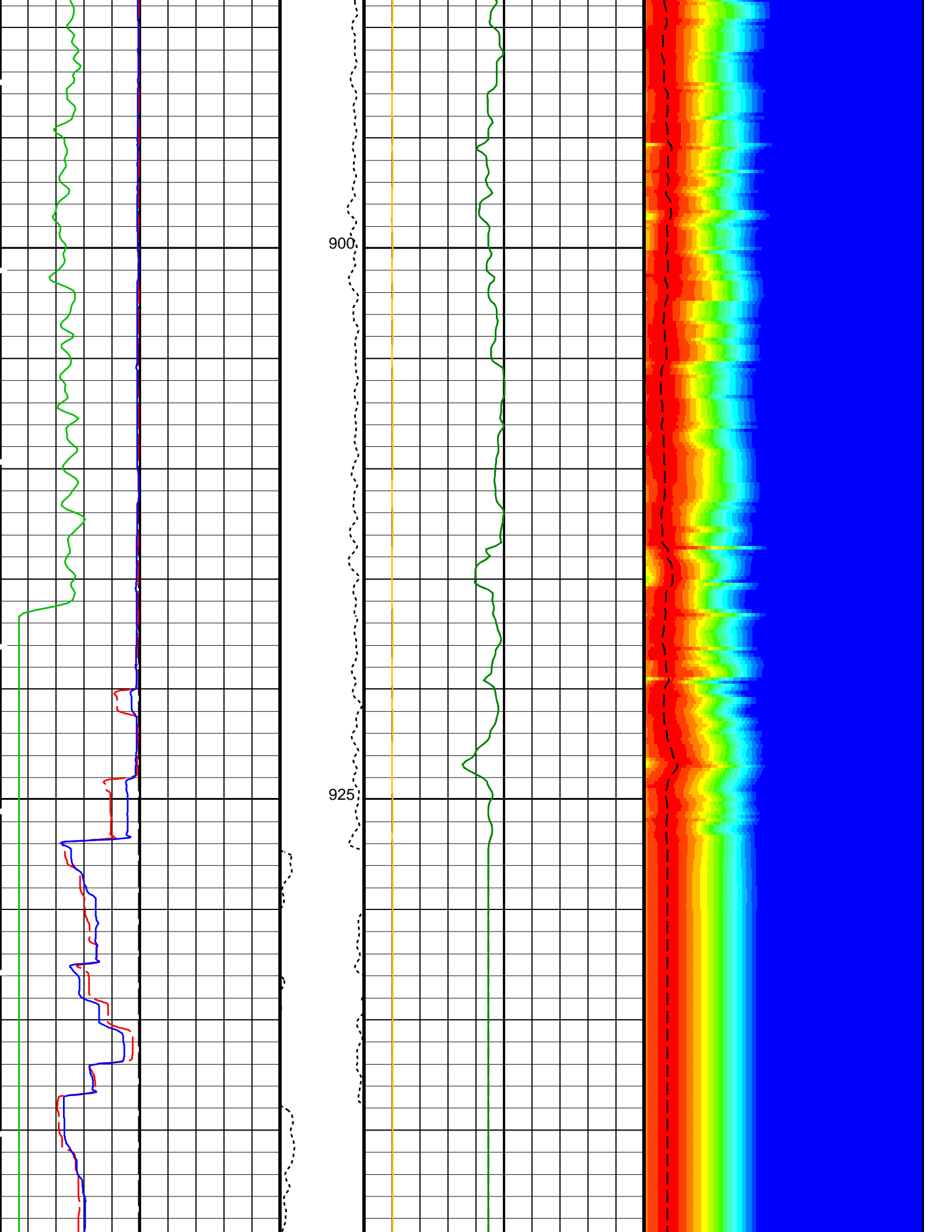


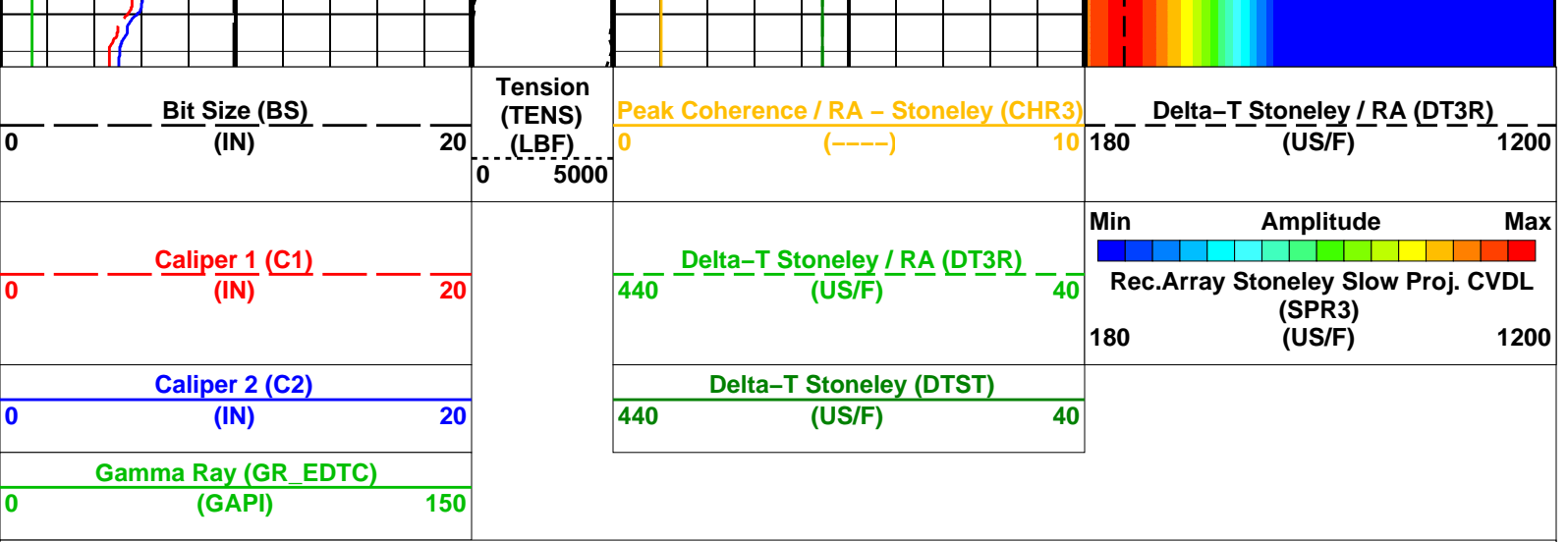












PIP SUMMARY

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	ODD
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	300 US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	1200 US/F
SUL3	STC Slowness Upper Limit - Monopole Stoneley	1200 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	15800 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	-2122.7 M
PP	Playback Processing	RECOMPUTE

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 25-Apr-2014 04:51

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	8453
DSST-B	19C0-187	HNGC-B	19C0-187
UNCG-BA	19C0-187	EDTC-B	19C0-187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_026LUP	FN:30	PRODUCER	22-Apr-2014 21:11	3070.1 M	2260.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_050PUP	FN:63	PRODUCER	25-Apr-2014 04:51		
CLIENT	FMS_DSI_NGS_050PUC	FN:64	CUSTOMER	25-Apr-2014 04:51		



Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: Calibration out of date 4-Feb-2014 3:22							
Caliper 1 Zero Measurement	12.00	N/A	11.98	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.05	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.18	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.38	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 22-Apr-2014 17:16							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 22-Apr-2014 17:16							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 4-Feb-2014 21:51 Before: 4-Feb-2014 22:02 After: 4-Feb-2014 22:07							
Na 511 Peak Loc	40.00	39.52	39.48	39.57	0.09216	1.000	
Na 511 Peak Res	15.50	15.96	16.77	17.05	0.2800	2.000	%
High Voltage	1150	1194	1193	1193	0.08801	N/A	V
Na 1785 Peak Loc	142.6	142.1	141.8	142.0	0.2398	7.000	
Na 1785 Peak Res	8.500	9.703	8.709	9.174	0.4646	2.000	%
Temperature	15.50	35.74	35.71	35.75	0.03577	N/A	DEGC
Na Count Rate	45.00	11.77	12.16	12.19	0.02500	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 4-Feb-2014 21:51 Before: 4-Feb-2014 22:02 After: 4-Feb-2014 22:07							
Na 511 Peak Loc	40.00	39.56	39.51	40.01	0.4946	1.000	
Na 511 Peak Res	15.50	16.07	16.56	16.11	-0.4463	2.000	%
High Voltage	1150	1126	1128	1128	0.1504	N/A	V
Na 1785 Peak Loc	142.6	142.3	143.1	142.2	-0.8427	7.000	
Na 1785 Peak Res	8.500	8.959	9.953	8.887	-1.065	2.000	%
Temperature	15.50	36.60	36.88	36.96	0.08454	N/A	DEGC
Na Count Rate	45.00	12.28	12.68	12.52	-0.1613	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 4-Feb-2014 21:51 Before: 4-Feb-2014 22:02 After: 4-Feb-2014 22:07							
Coincidence Count Rate Ratio	1.000	0.9624	0.9606	0.9690	0.008355	0.05000	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 22-Apr-2014 8:07

EDTC Z-Axis Acceleration	9.810	N/A	9.752	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 22-Apr-2014 8:17 After: 22-Apr-2014 15:50

Gamma Ray (Jig – Bkg)	156.4	N/A	156.4	158.2	1.813	14.22	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	166.9	1.913	15.00	GAPI

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	724
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	875

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH – A	702
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	769

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	300
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Auxiliary Equipment:

HNGC Housing	HNGH – A	115
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS – BA	194
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Auxiliary Equipment:

HNGS Sonde Housing	HNSH – BA	205
Gamma Source Radioactive	GSR – U	616008

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		39.52	Master		15.96	Master		1194
Before		39.48	Before		16.77	Before		1193
After		39.57	After		17.05	After		1193
	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		142.1	Master		9.703	Master		35.74
Before		141.8	Before		8.709	Before		35.71
After		142.0	After		9.174	After		35.75
	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		11.77						
Before		12.16						
After		12.19						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 4-Feb-2014 21:51			Before: 4-Feb-2014 22:02			After: 4-Feb-2014 22:07		

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		39.56	Master		16.07	Master		1126
Before		39.51	Before		16.56	Before		1128
After		40.01	After		16.11	After		1128
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		142.3	Master		8.959	Master		36.60
Before		143.1	Before		9.953	Before		36.88
After		142.2	After		8.887	After		36.96
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		12.28						
Before		12.68						
After		12.52						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: 4-Feb-2014 21:51			Before: 4-Feb-2014 22:02			After: 4-Feb-2014 22:07		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9624
Before		0.9606
After		0.9690
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 4-Feb-2014 21:51		
Before: 4-Feb-2014 22:02		
After: 4-Feb-2014 22:07		

Enhanced DTS Cartridge / Equipment Identification		
Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	8305
Enhanced DTS Cartridge	EDTC - B	8317
Auxiliary Equipment:		
EDTC Housing	EDTH - B	8303

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.752
9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)		
Before: 22-Apr-2014 8:07		

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		11.20	Before		156.4	Before		165.0
After		6.774	After		158.2	After		166.9
0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			142.2 (Minimum) 156.4 (Nominal) 170.7 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		
Before: 22-Apr-2014 8:17			After: 22-Apr-2014 15:50					

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 350, Site U1437D**

Field: **IBM-1 (Rear Arc)**

Rig: **JOIDES Resolution**

Country:

DSI Sonic

Stoneley