

DISCLAIMER

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OTHER SERVICES1

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

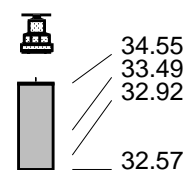
REMARKS: RUN NUMBER 1

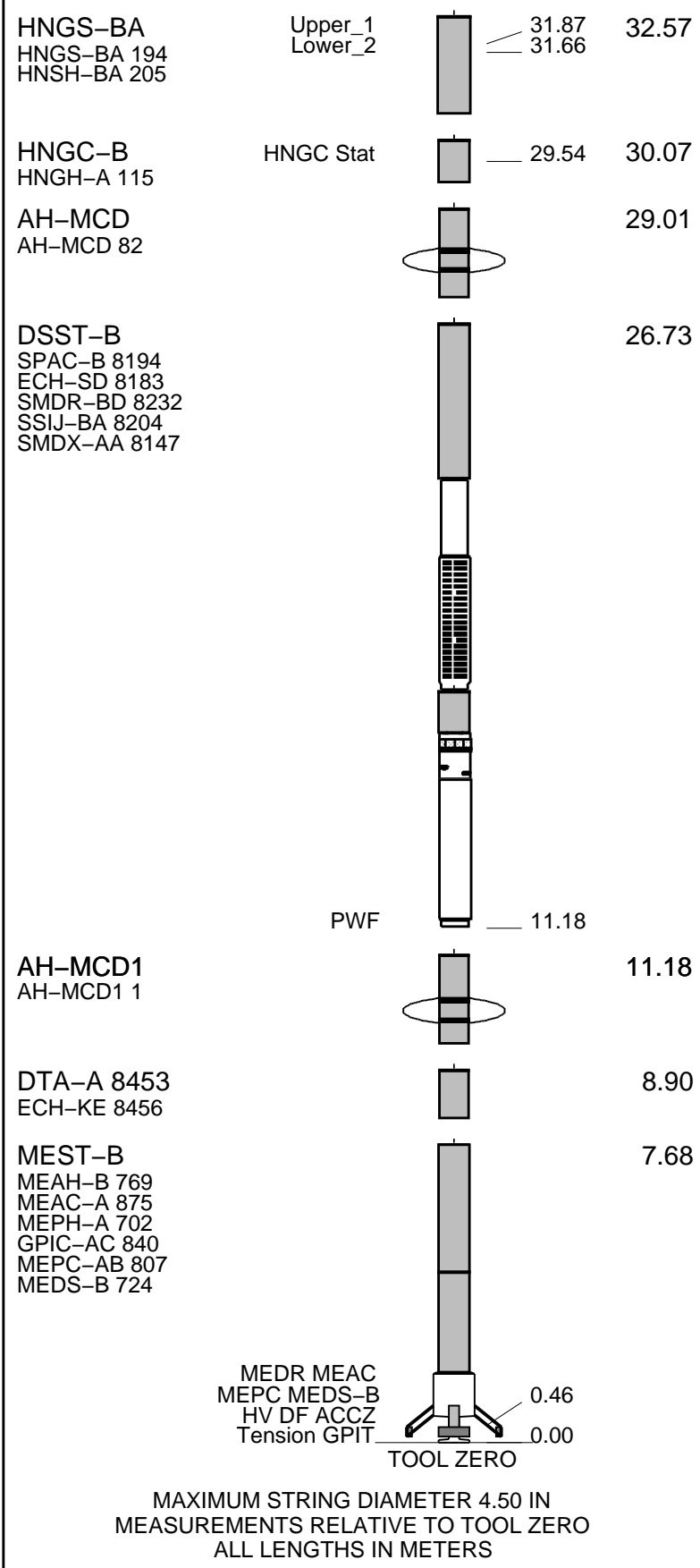
Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8 " BS
 Coring concluded approximately 24 hours prior to logging.
 Drill pipe set at a depth of 92.3mbsf with a logging bit installed to facilitate wireline logging.
 Downlog run with corrections computed using bit size; uplogs corrected 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

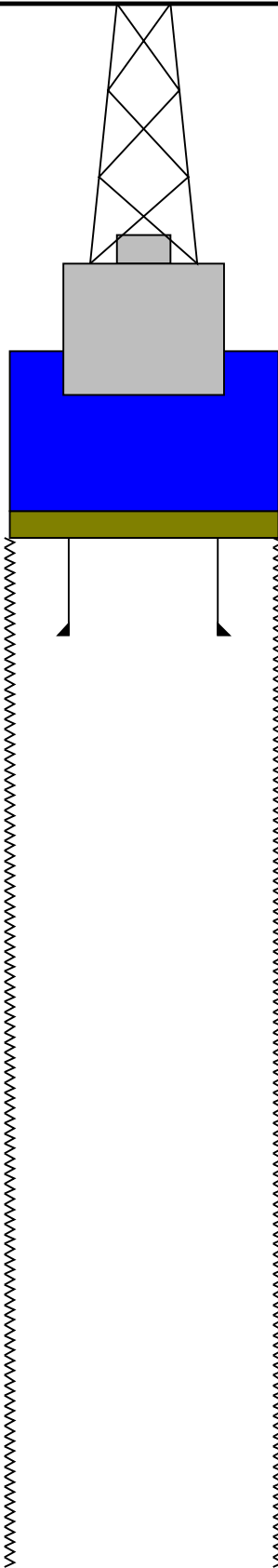
Derrick Floor Elevation

Mean Sea Level

-2127.3

-2127.3

-2117.3



0.0

92.3

980.4

5.500

9.875

Sea Floor

Bit Depth

Total Depth - Driller



Downlog 1:200 Scale

MAXIS Field Log

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

DSHL

75 US/F

75 US/F

952.3 04:25:42

220 US/F

75 US/F

219.9 04:27:29


75 US/F

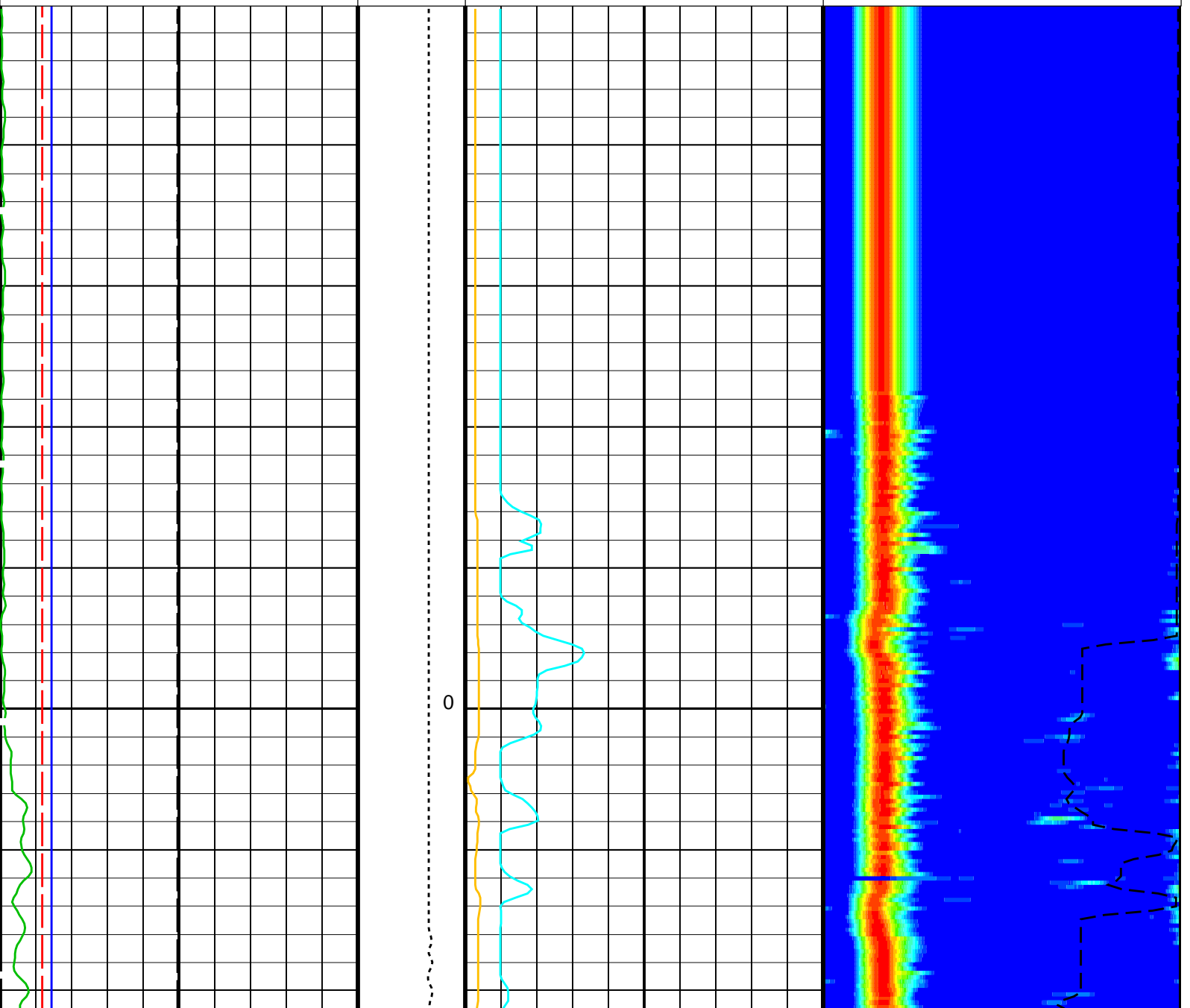
220 US/F

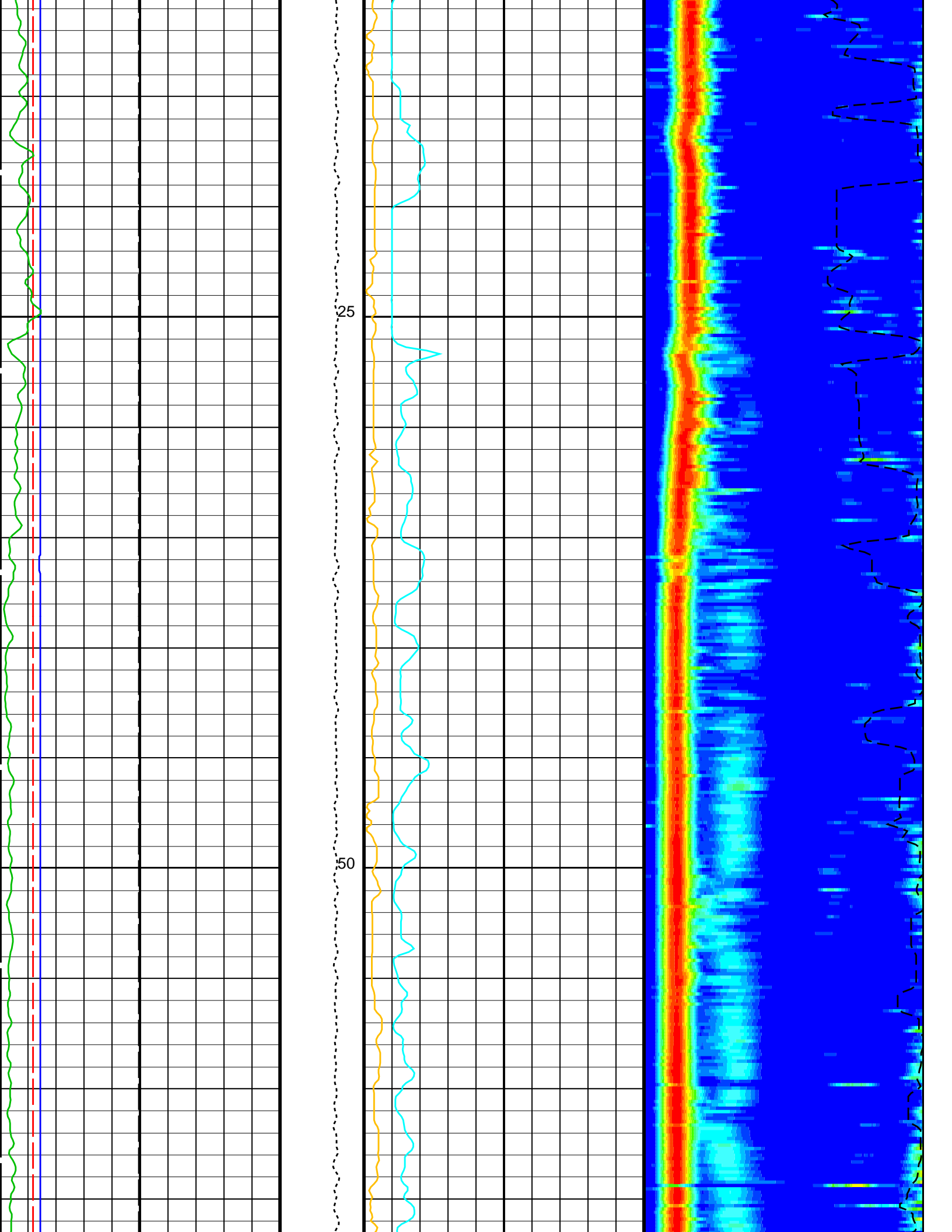
91.4 04:27:48

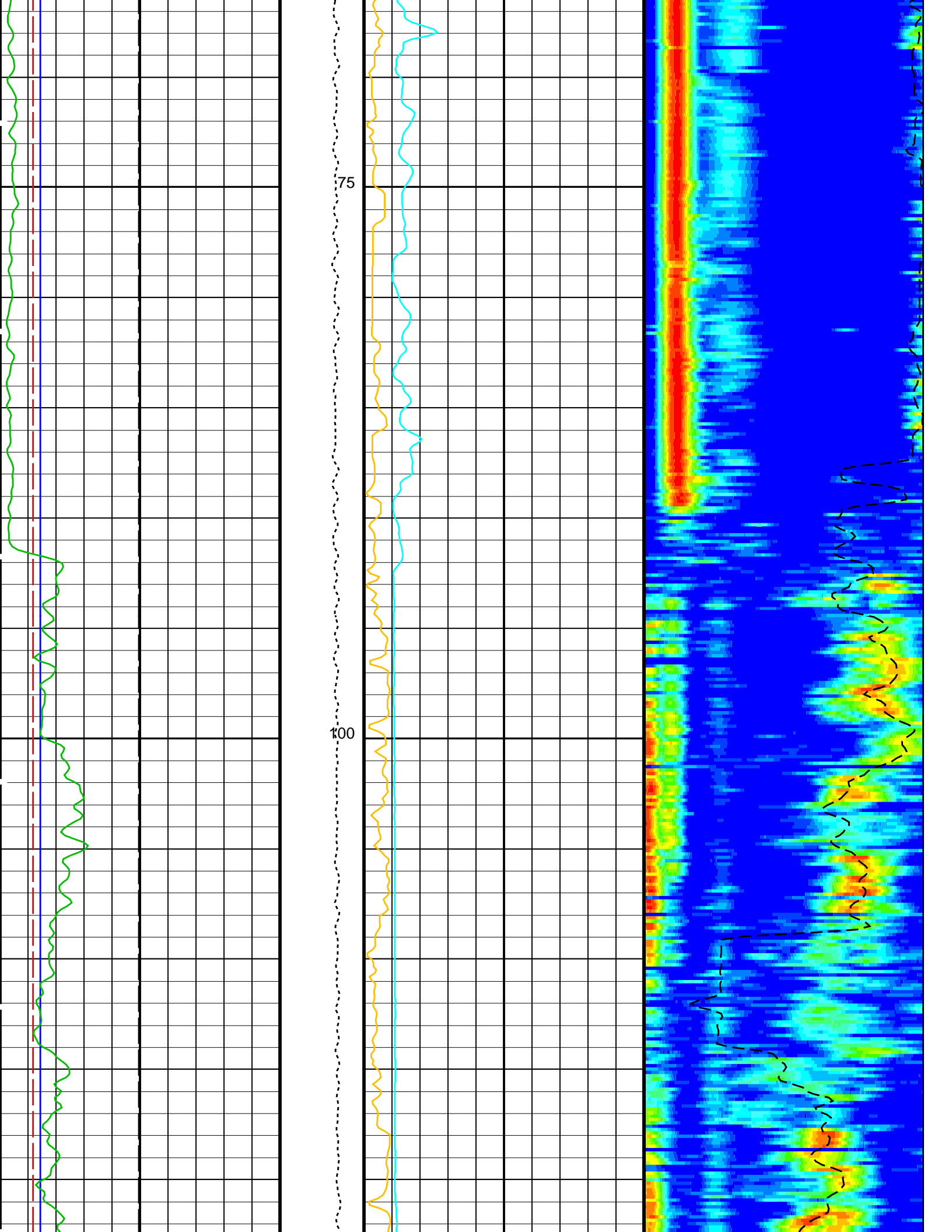
PIP SUMMARY

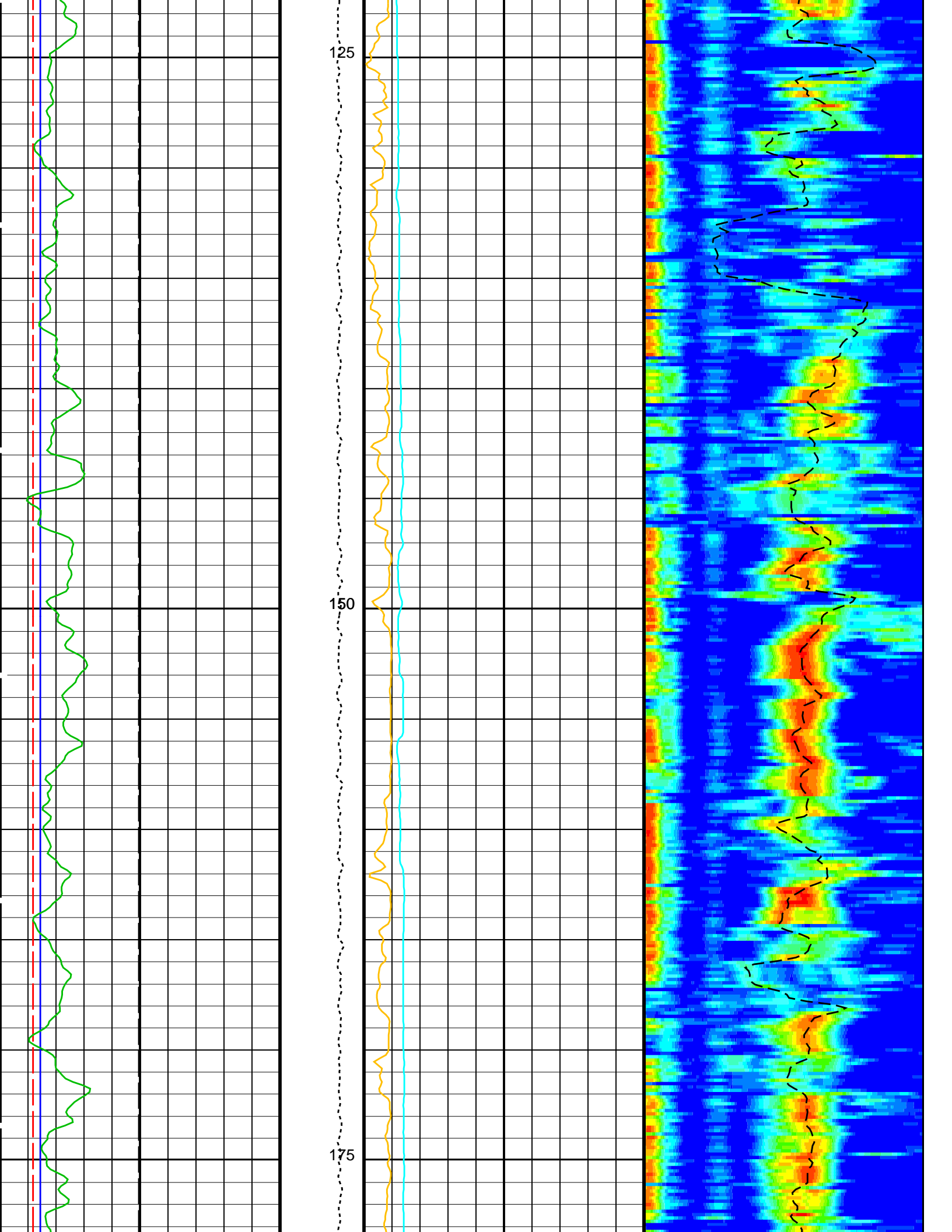
Time Mark Every 60 S

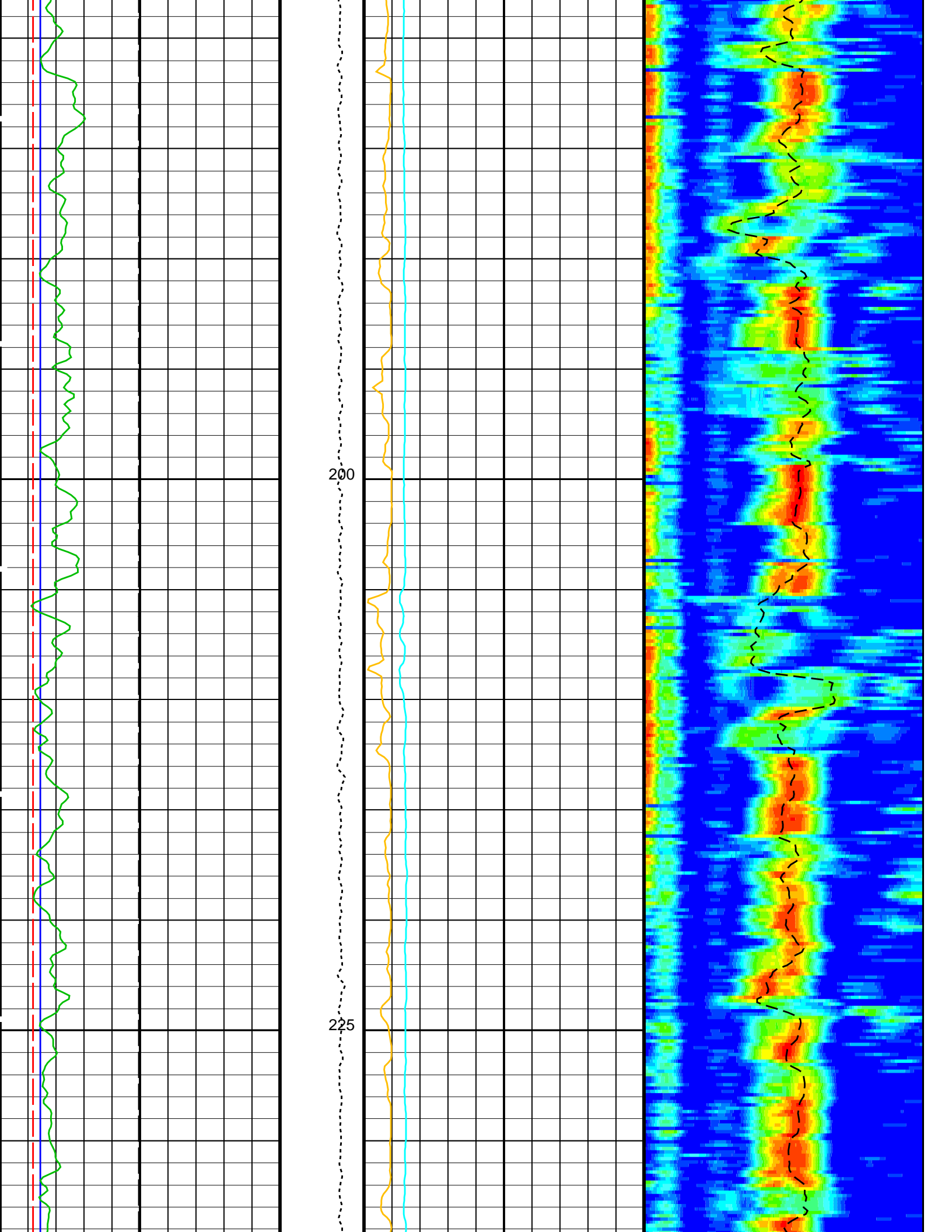
<p style="color: green; text-align: center;">Gamma Ray (GR_EDTC) (GAPI)</p> <p style="text-align: center;">0 150</p> <hr style="border: 1px solid blue;"/> <p style="color: blue; text-align: center;">Caliper 2 (C2) (IN)</p> <p style="text-align: center;">0 20</p> <hr style="border: 1px dashed red;"/> <p style="color: red; text-align: center;">Caliper 1 (C1) (IN)</p> <p style="text-align: center;">0 20</p> <hr style="border: 1px dashed black;"/> <p style="text-align: center;">Bit Size (BS) (IN)</p> <p style="text-align: center;">0 20</p>	<p style="color: cyan; text-align: center;">Sonic Velocity (SVEL) (M/S)</p> <p style="text-align: center;">1000 6000</p> <hr style="border: 1px solid orange;"/> <p style="color: orange; text-align: center;">Peak Coherence / RA - Upper Dipole (CHR2)</p> <p style="text-align: center;">0 10</p>	<p style="text-align: center;">Min Amplitude Max</p>  <p style="text-align: center;">Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)</p> <p style="text-align: center;">75 1200</p> <hr style="border: 1px dashed black;"/> <p style="text-align: center;">Delta-T Shear / RA - Upper Dipole (DT2R) (US/F)</p> <p style="text-align: center;">75 1200</p>
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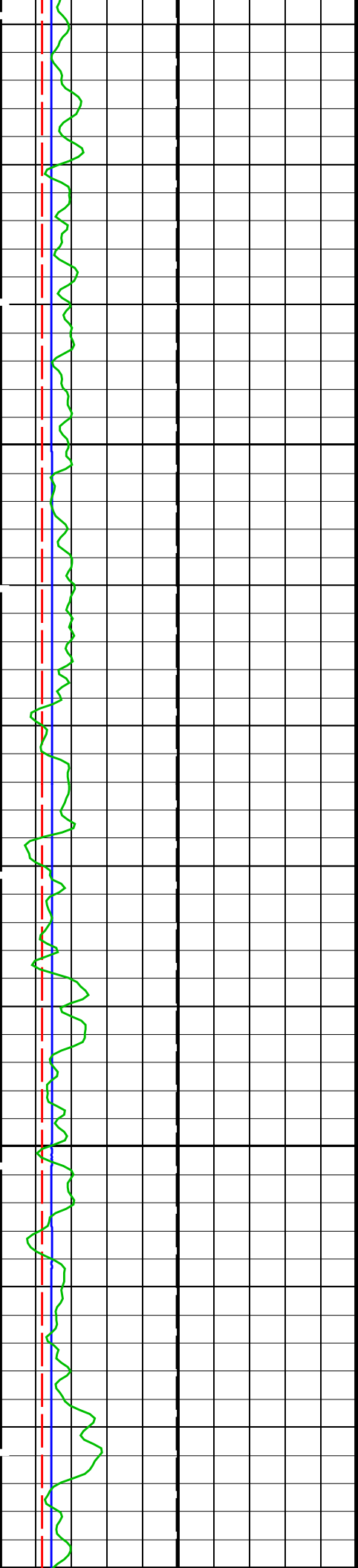






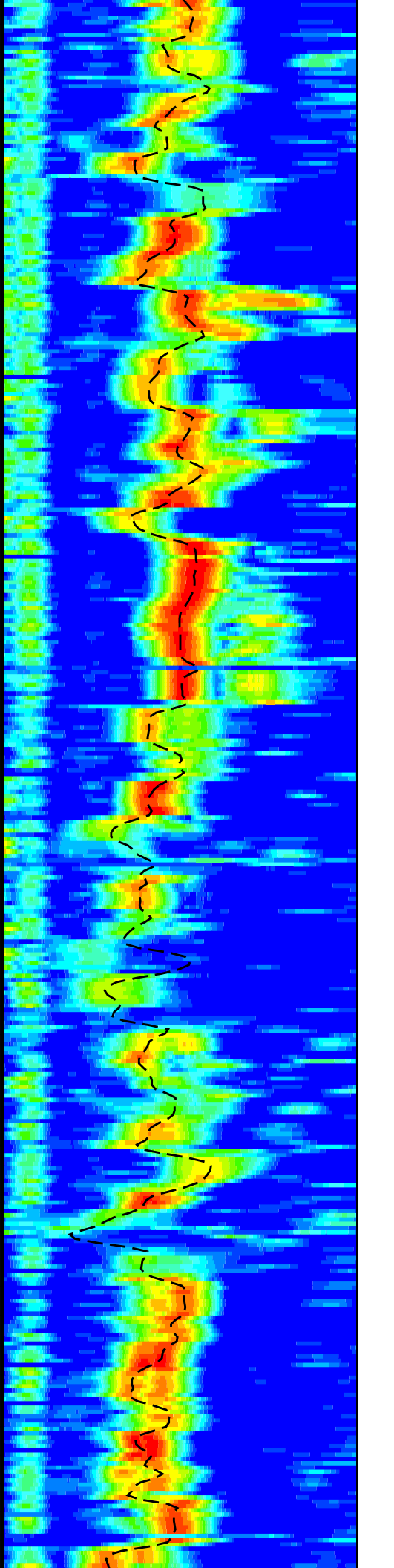
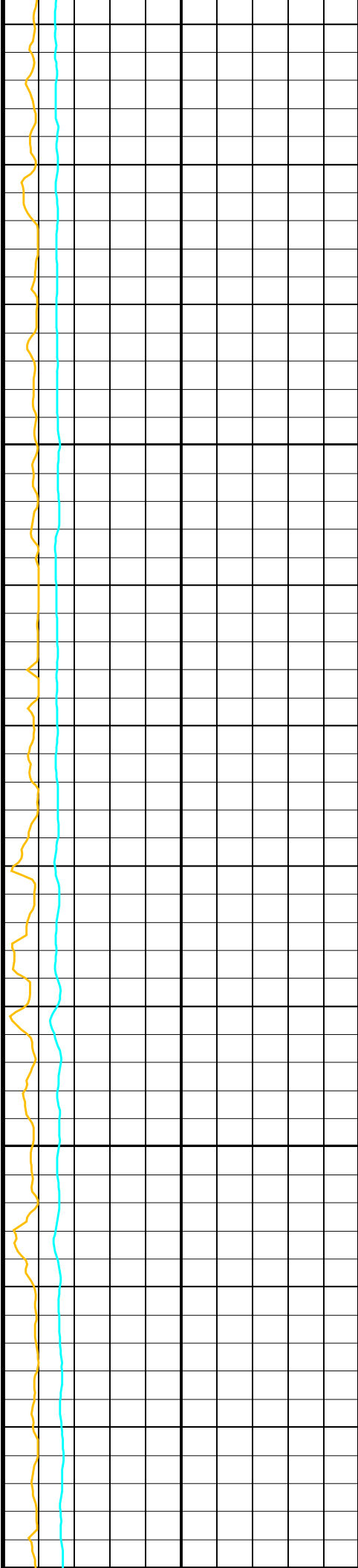


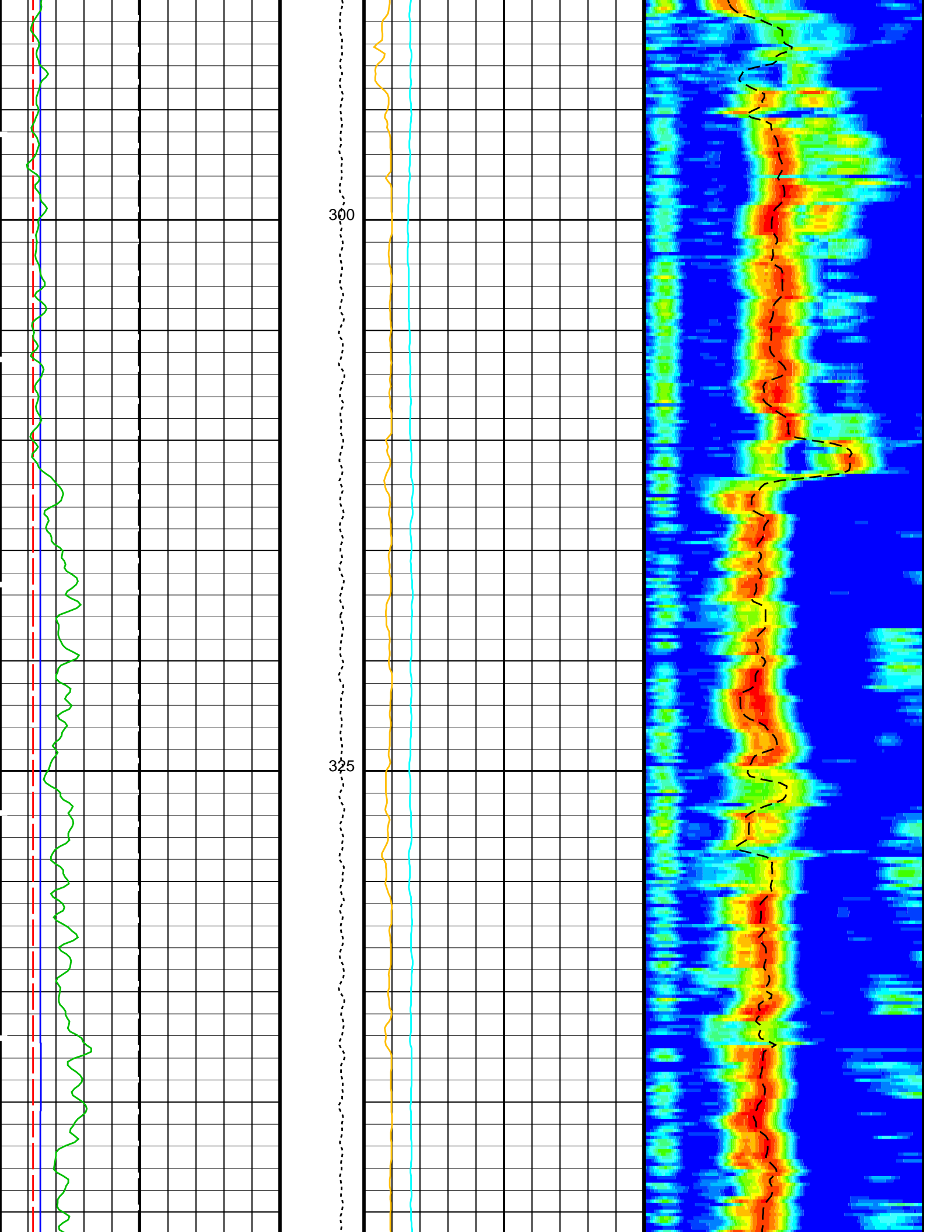


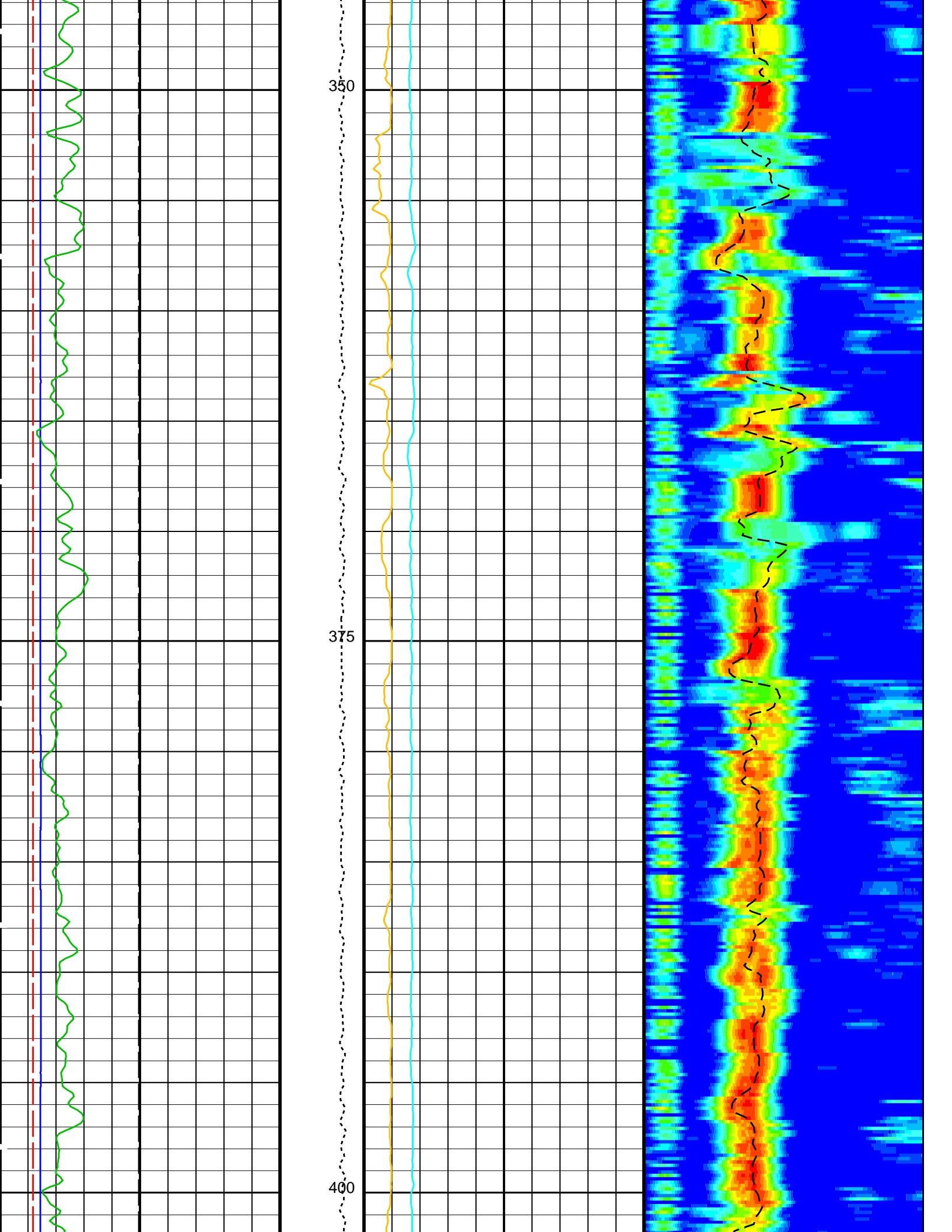


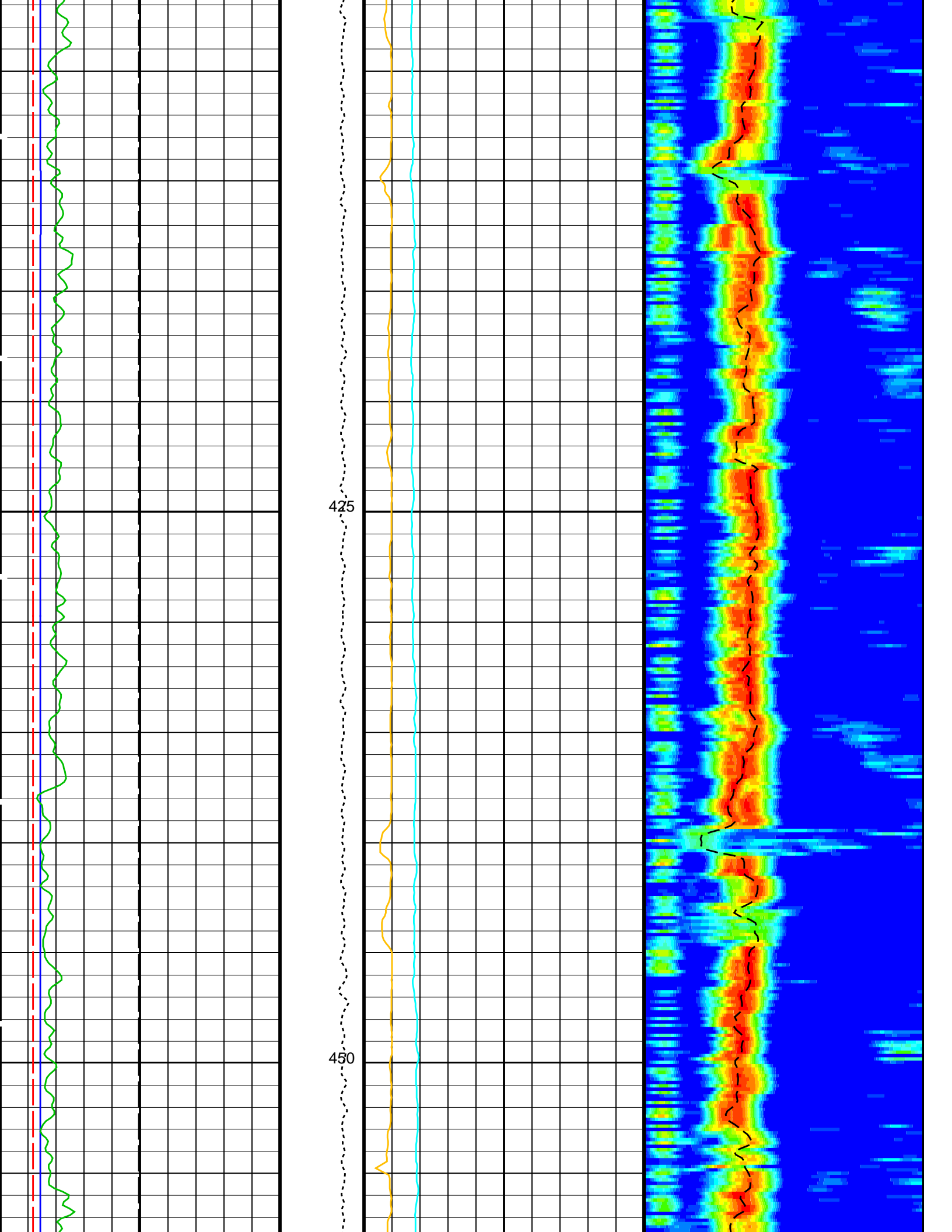
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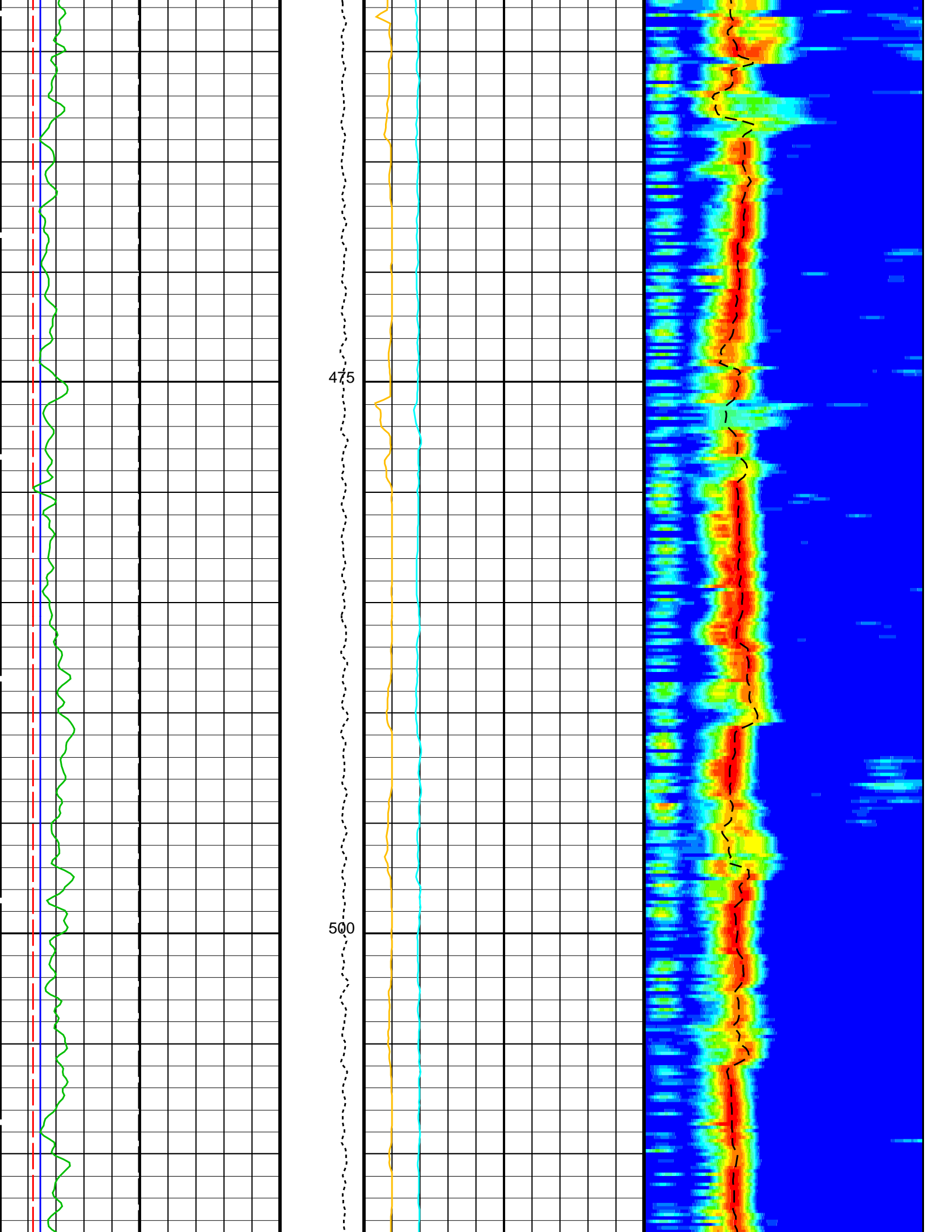
275

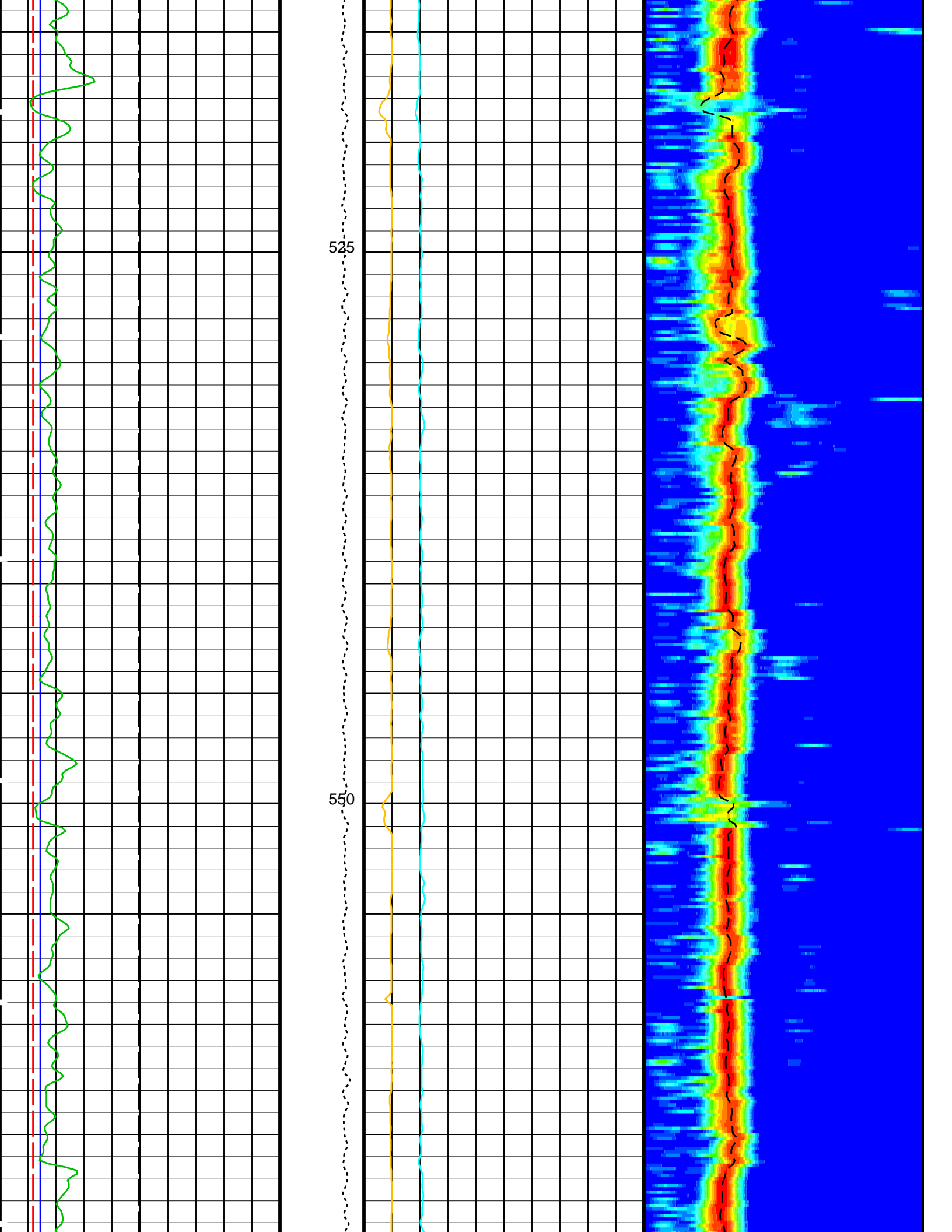


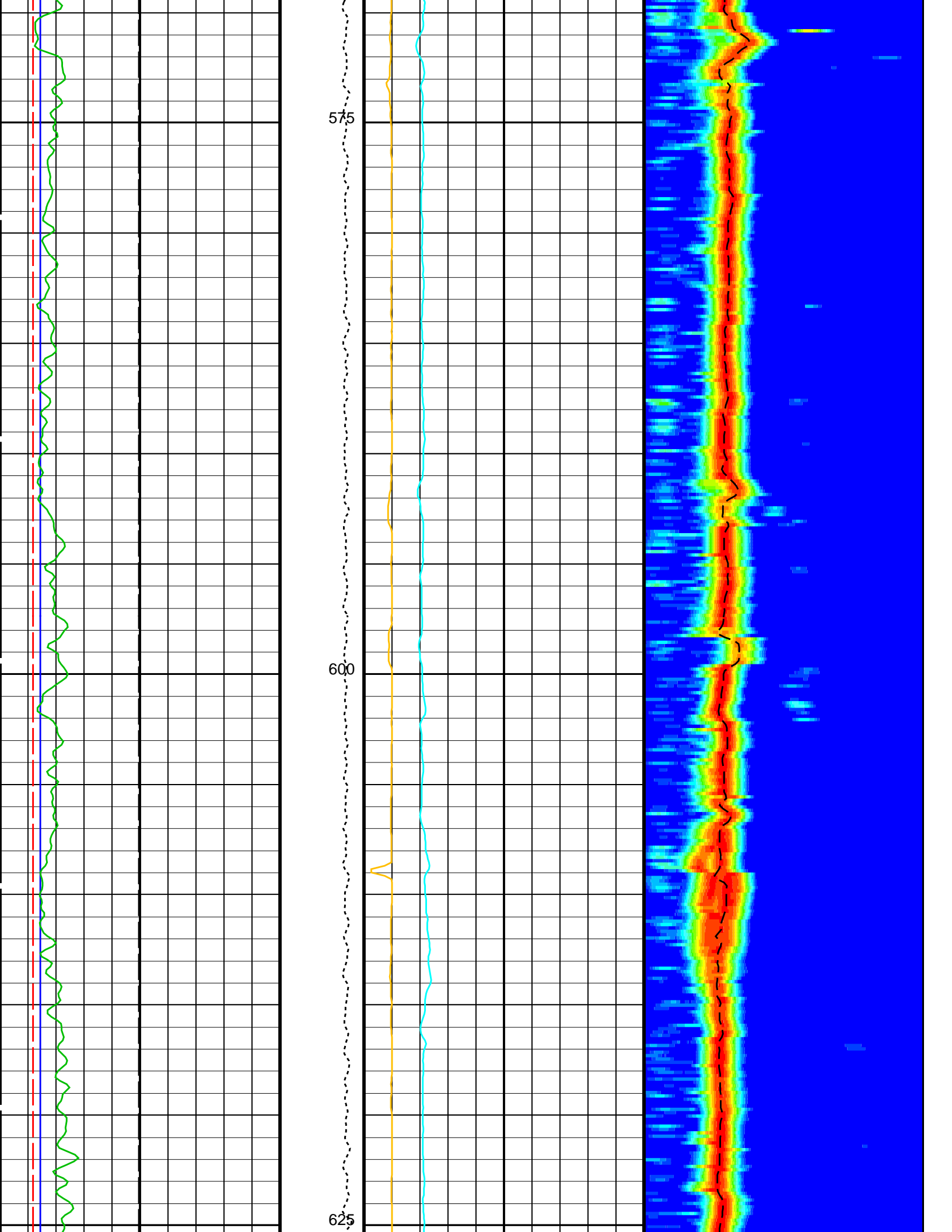


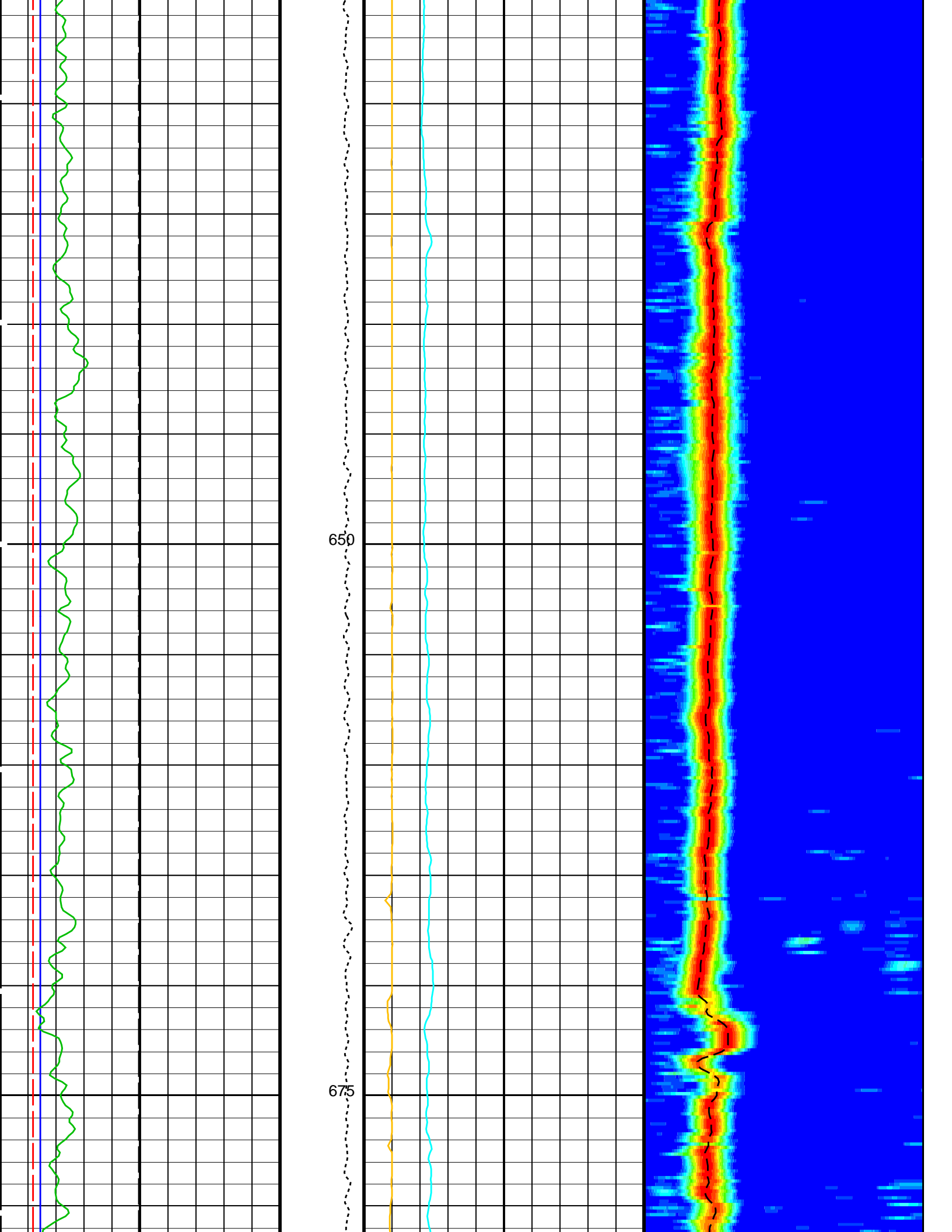


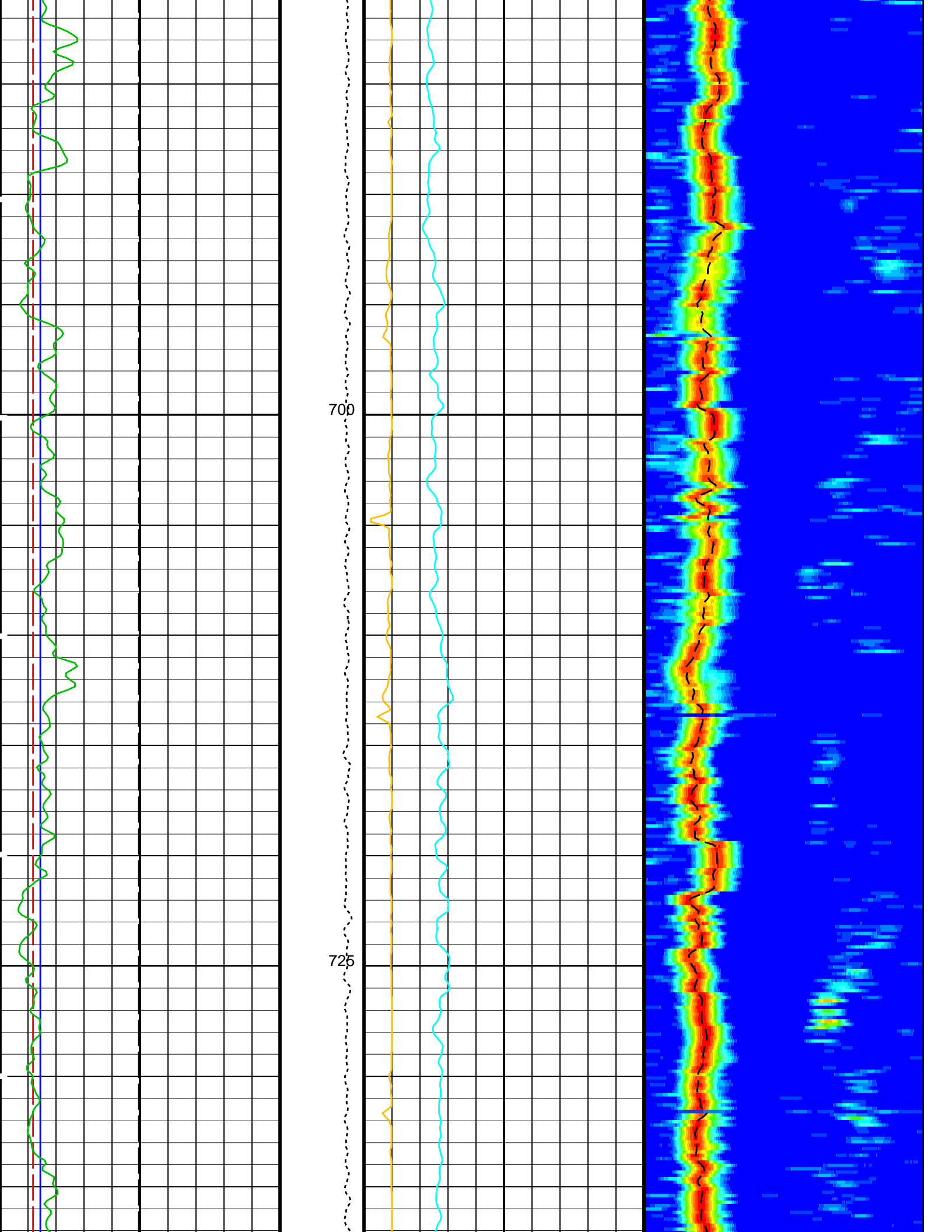


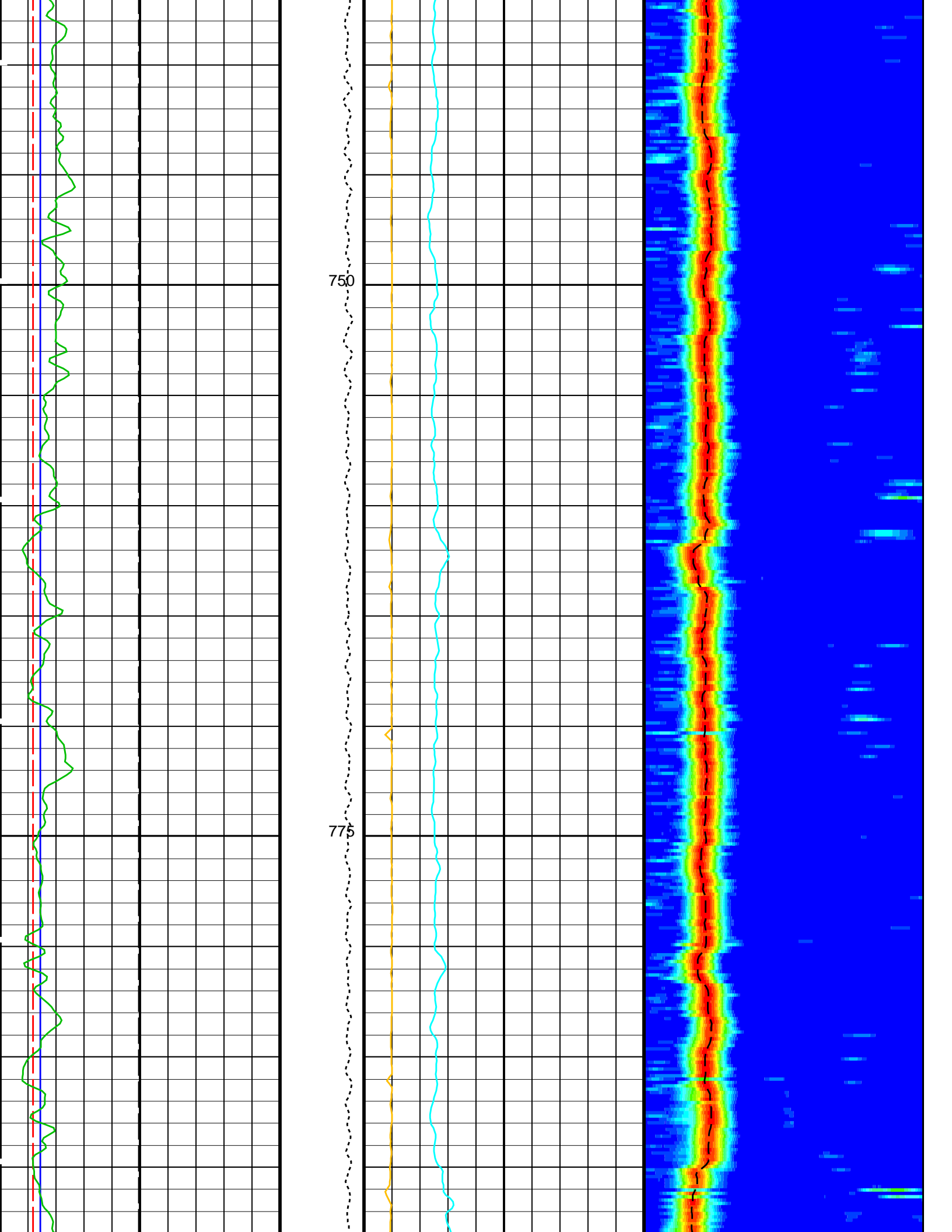


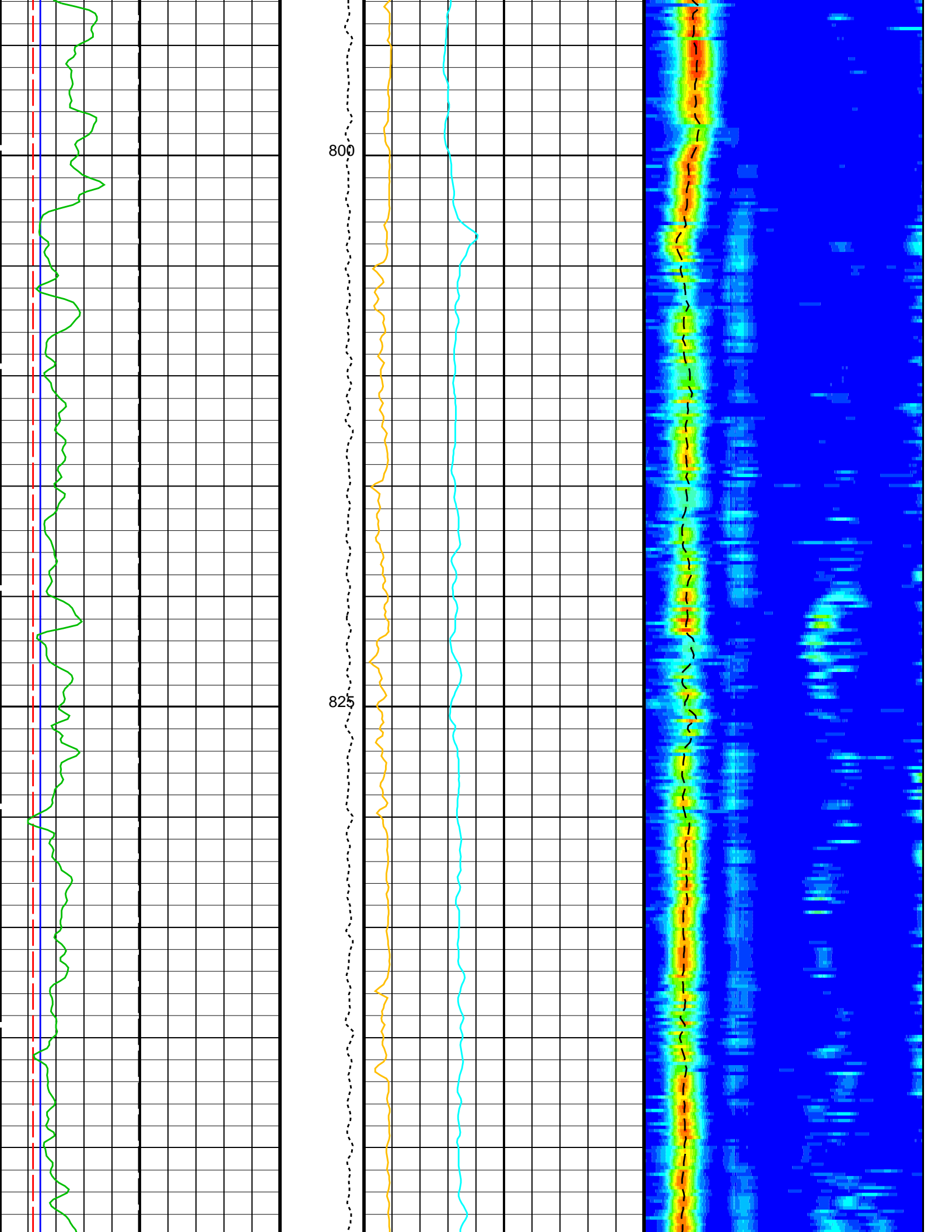


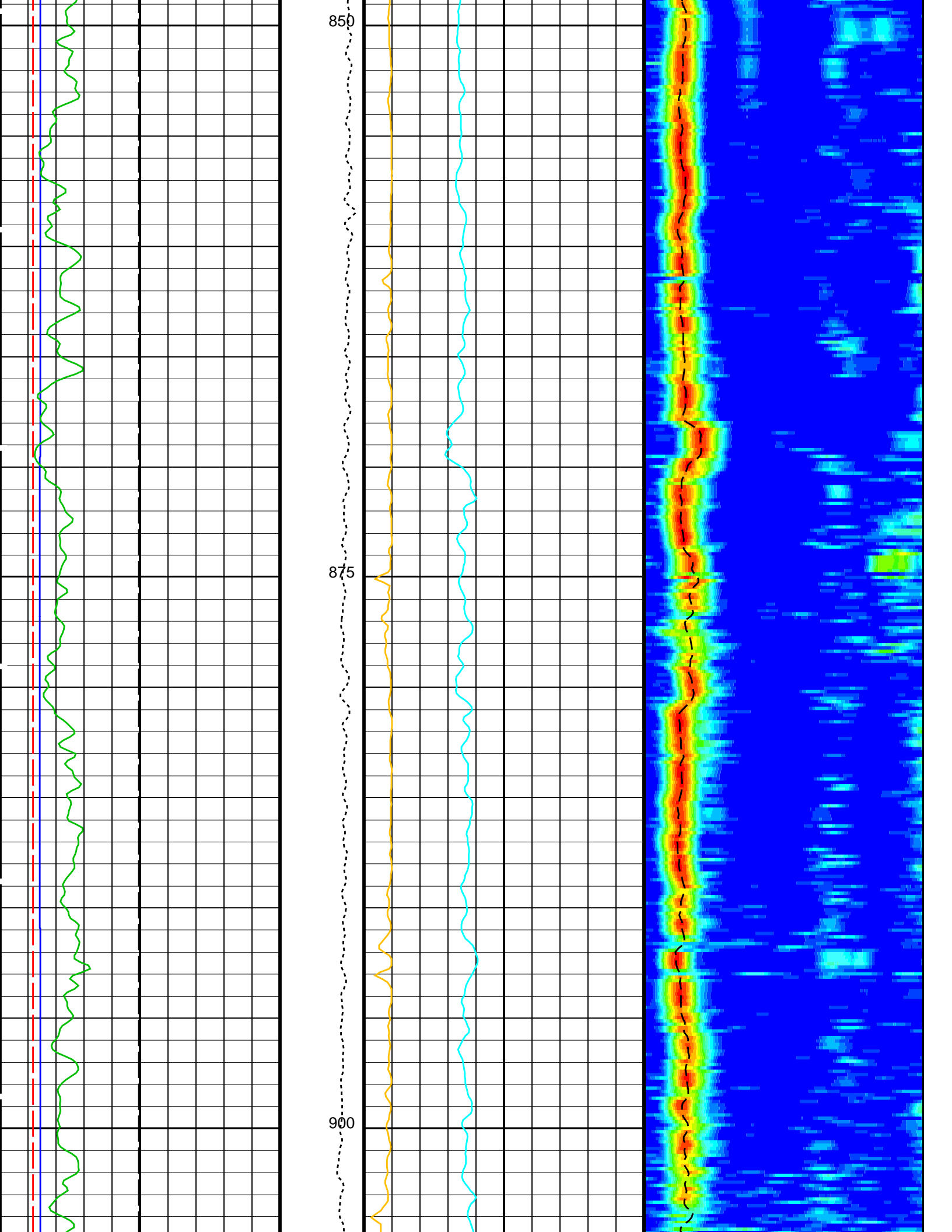


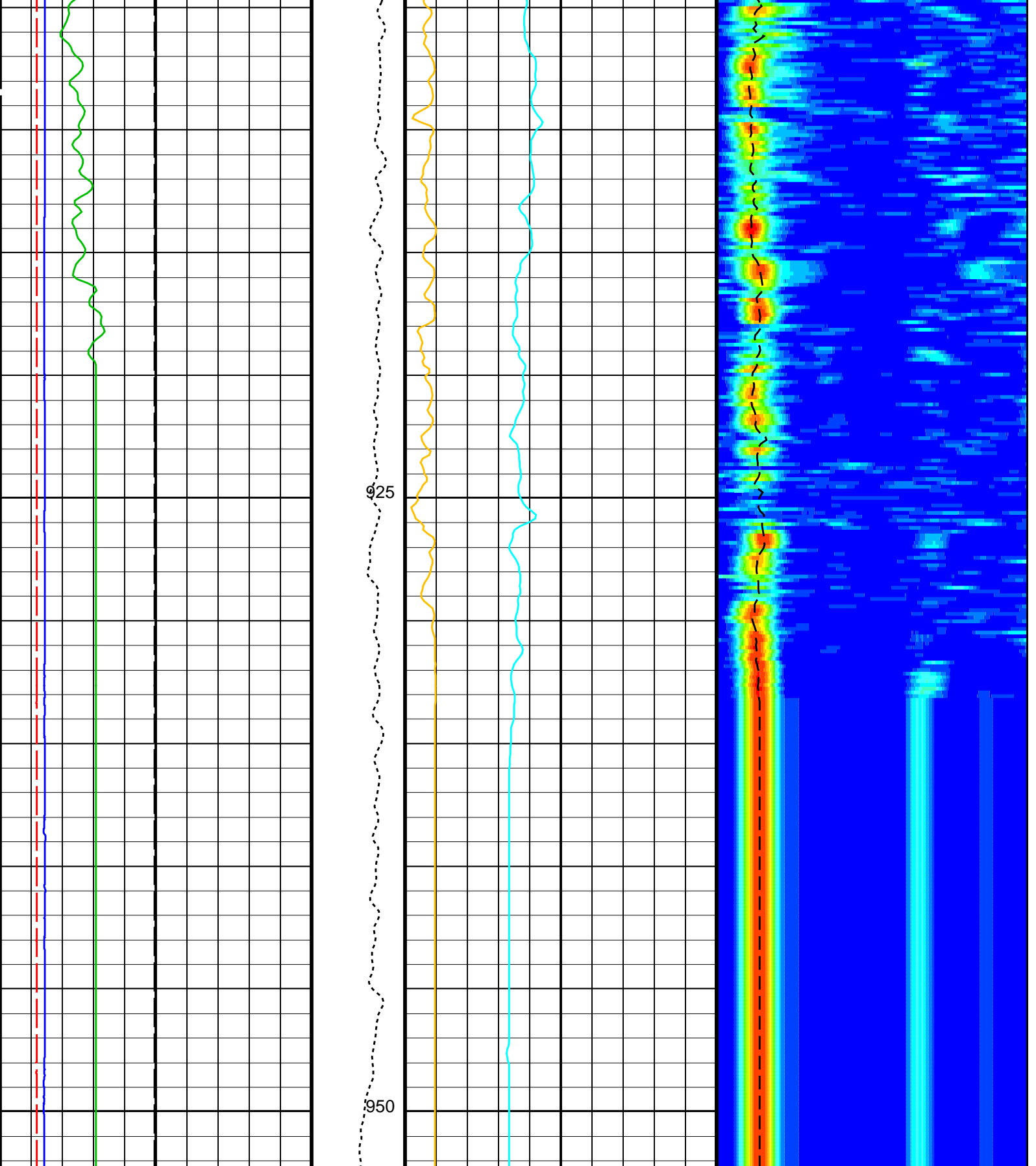












0 **Bit Size (BS)** (IN) 20

0 **Tension (TENS)** (LBF) 5000

0 **Peak Coherence / RA - Upper Dipole (CHR2)** (-----) 10

75 **Delta-T Shear / RA - Upper Dipole (DT2R)** (US/F) 1200

0 **Caliper 1 (C1)** (IN) 20

1000 **Sonic Velocity (SVEL)** (M/S) 6000

75 **Min Amplitude Max**
Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F) 1200

0 (IN) 20

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			
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	75	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200	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	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	B1-2K	
SLL2	STC Slowness Lower Limit - Upper Dipole	75	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	1200	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	20200	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	-2123.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_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

Input DLIS Files

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

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

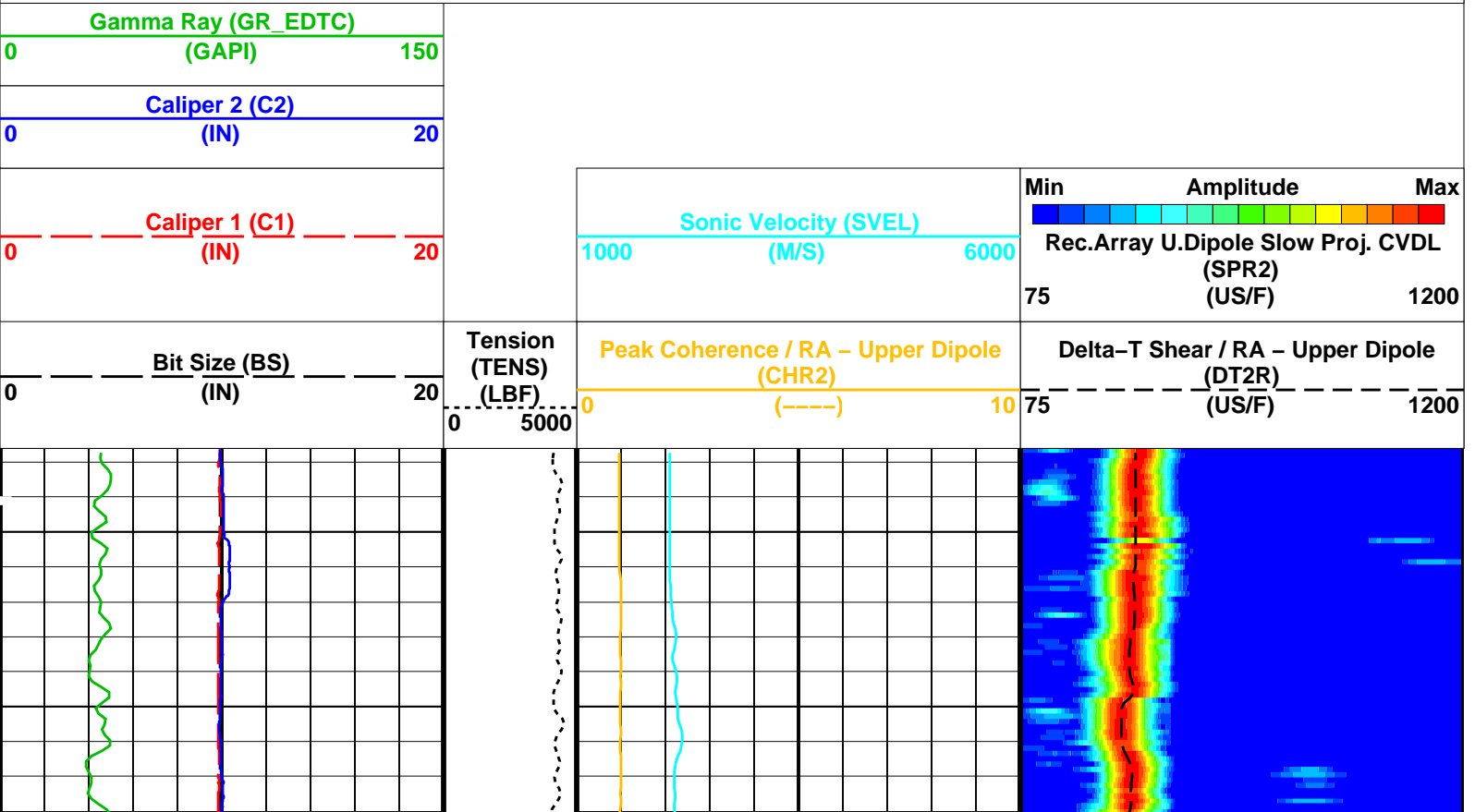
MEST-B 19C0-187 DTA-A 8453
 DSST-B 19C0-187 HNGC-B 19C0-187
 HNGS-BA 19C0-187 EDTC-B SKK-5169-EDTCB

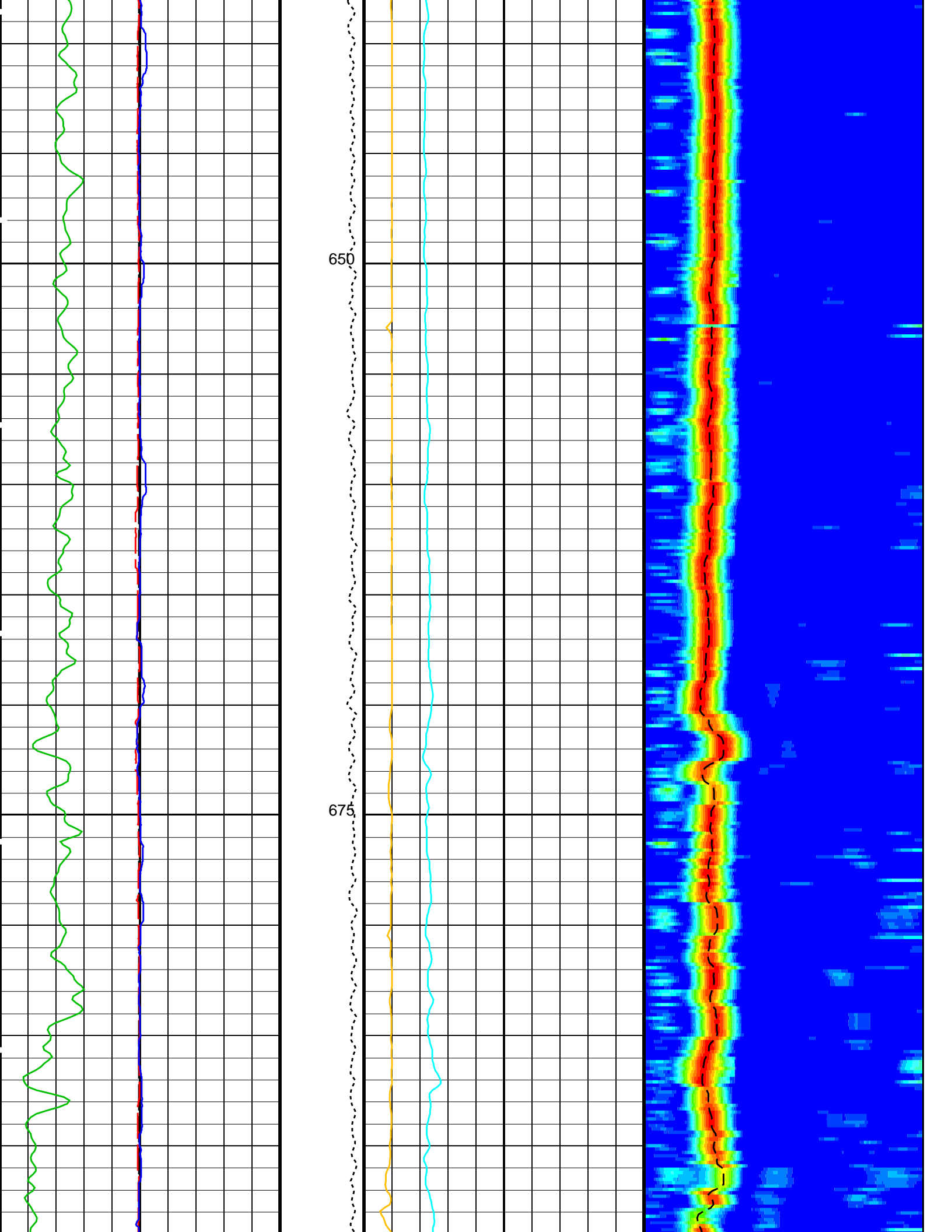
Changed Parameter Summary

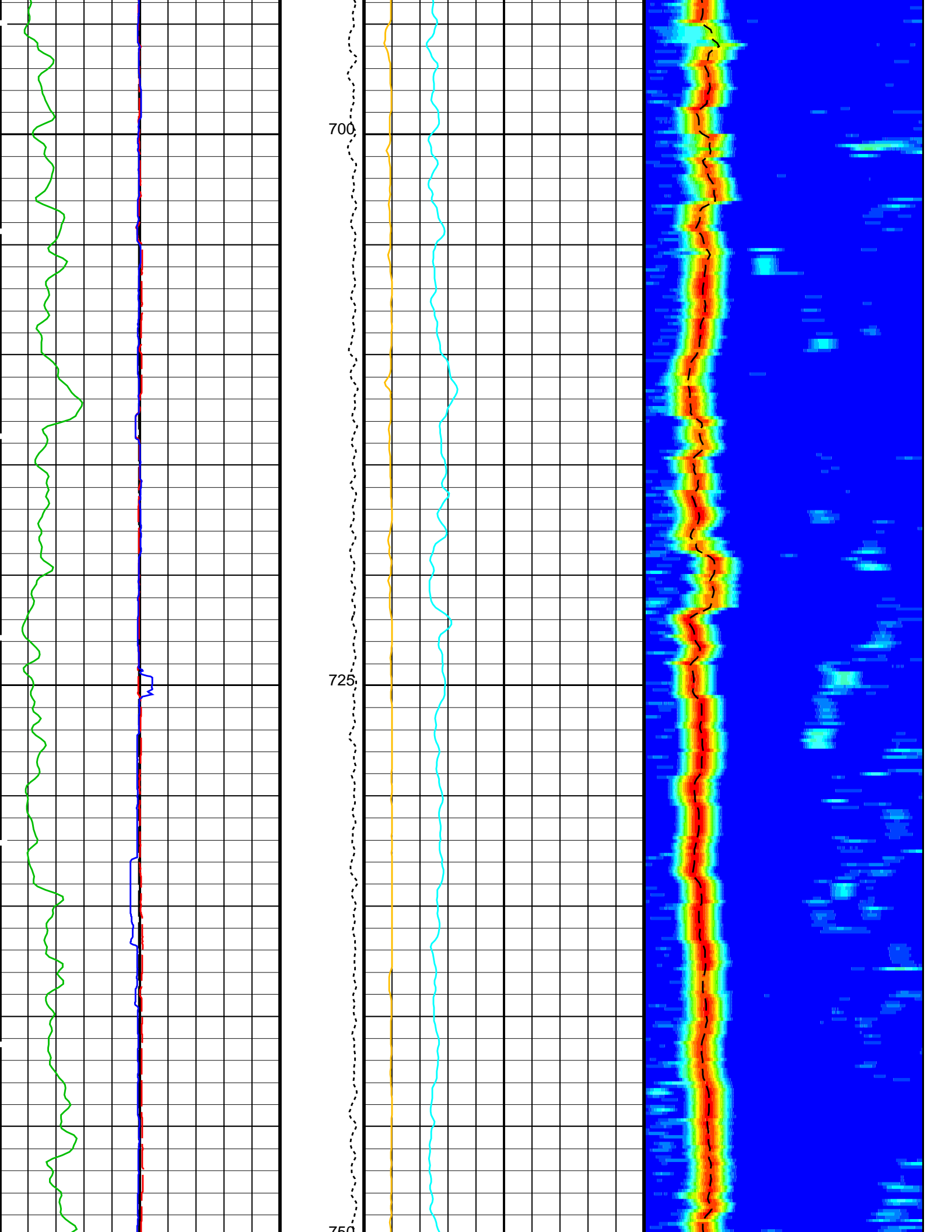
DLIS Name	New Value	Previous Value	Depth & Time
DSHL	75 US/F	75 US/F	951.0 04:57:05
	75 US/F	75 US/F	799.9 04:57:25
DSHU	400 US/F	1200 US/F	951.0 04:57:05
	1200 US/F	400 US/F	799.9 04:57:25

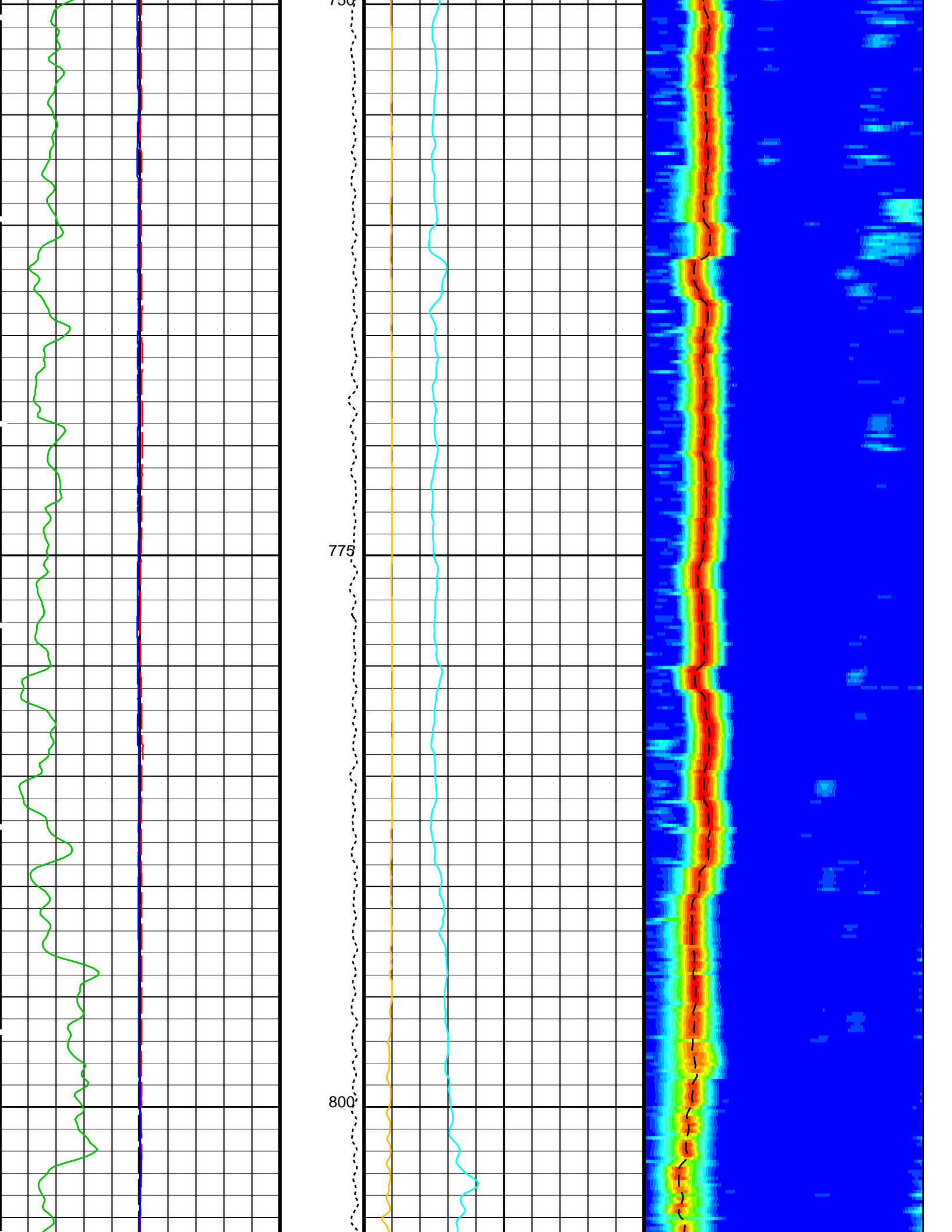
PIP SUMMARY

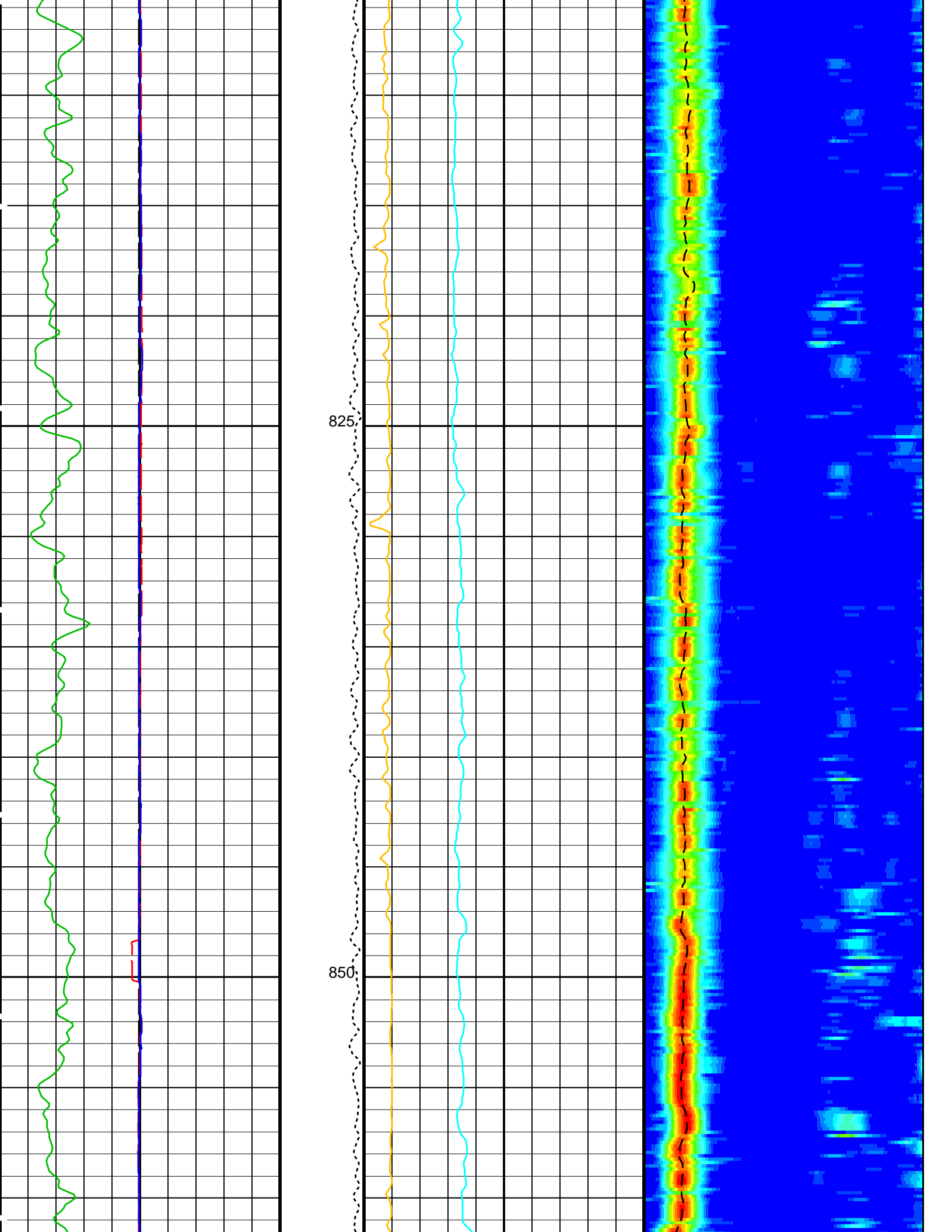
Time Mark Every 60 S

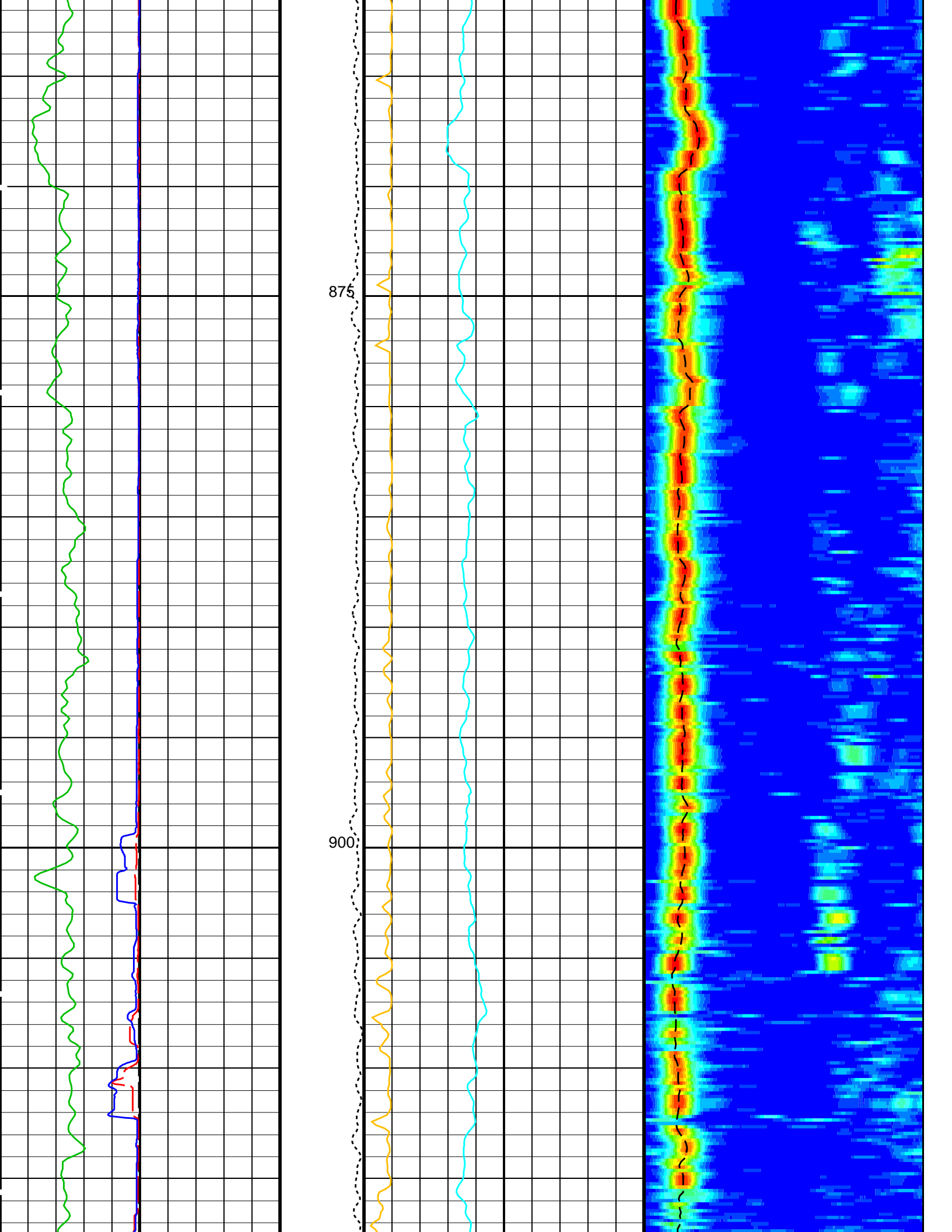


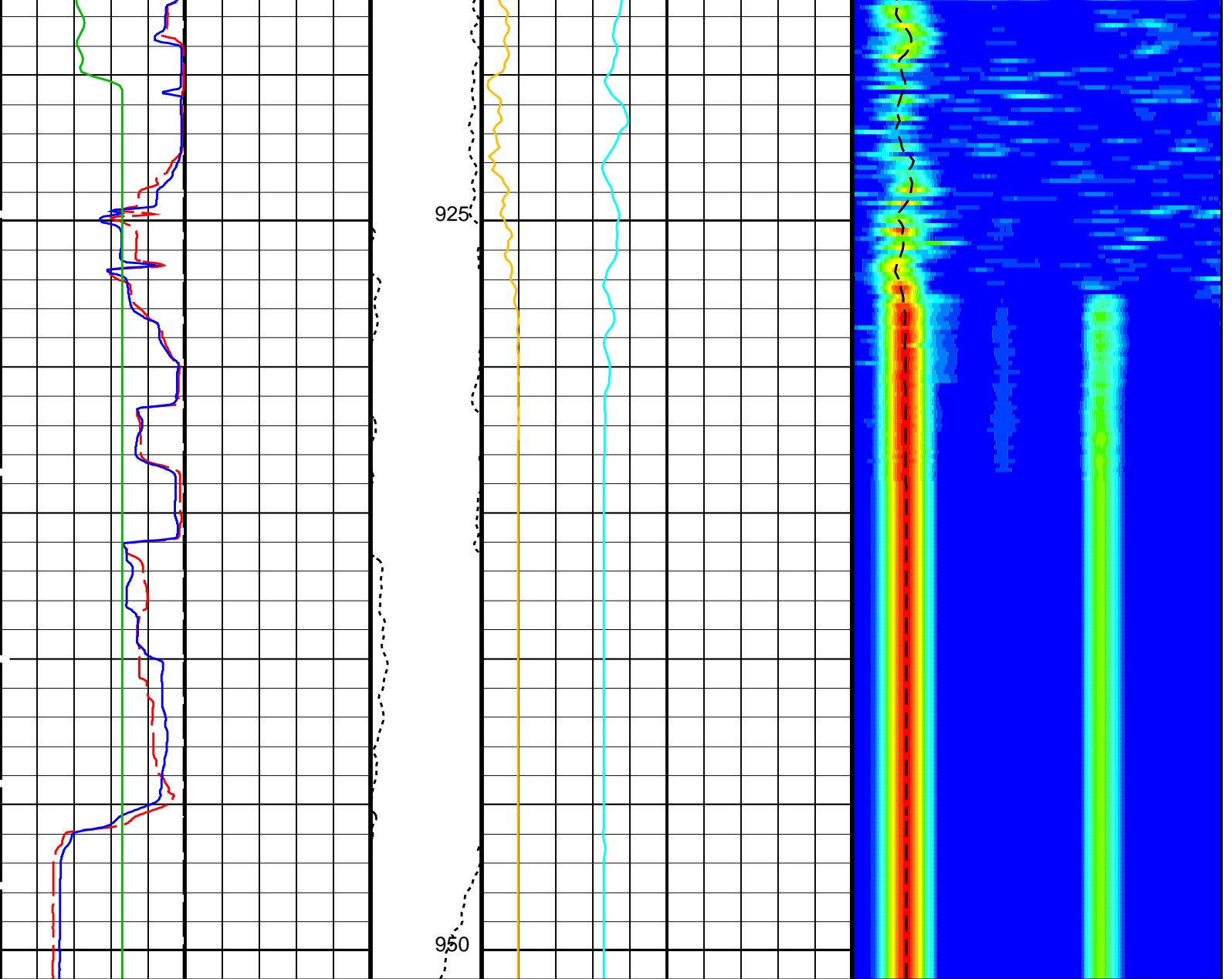












0	20	0	5000	0	10	75	1200
Bit Size (BS) (IN)		Tension (TENS) (LBF)		Peak Coherence / RA - Upper Dipole (CHR2) (-----)		Delta-T Shear / RA - Upper Dipole (DT2R) (US/F)	
0	20			1000	6000	Min Amplitude Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)	
Caliper 1 (C1) (IN)				Sonic Velocity (SVEL) (M/S)		75 1200	
0	20						
Caliper 2 (C2) (IN)							
0	20						
Gamma Ray (GR_EDTC) (GAPI)							
0	150						

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	75 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200 US/F

DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCS 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	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	B1-2K	
SLL2	STC Slowness Lower Limit - Upper Dipole	75	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	1200	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	20200	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	-2122.9	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_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		



Main Pass
1:200 Scale

MAXIS Field Log

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

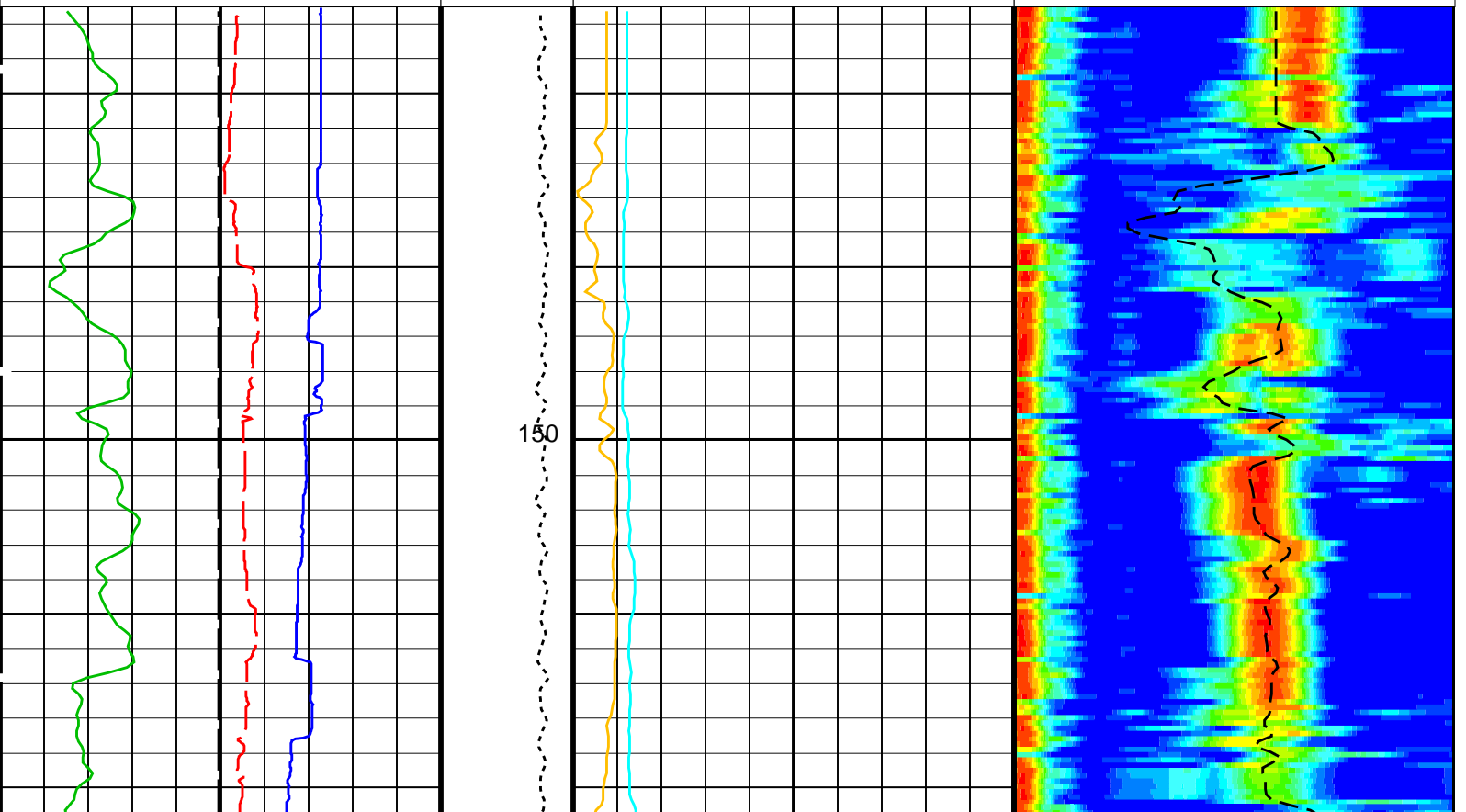
Changed Parameter Summary

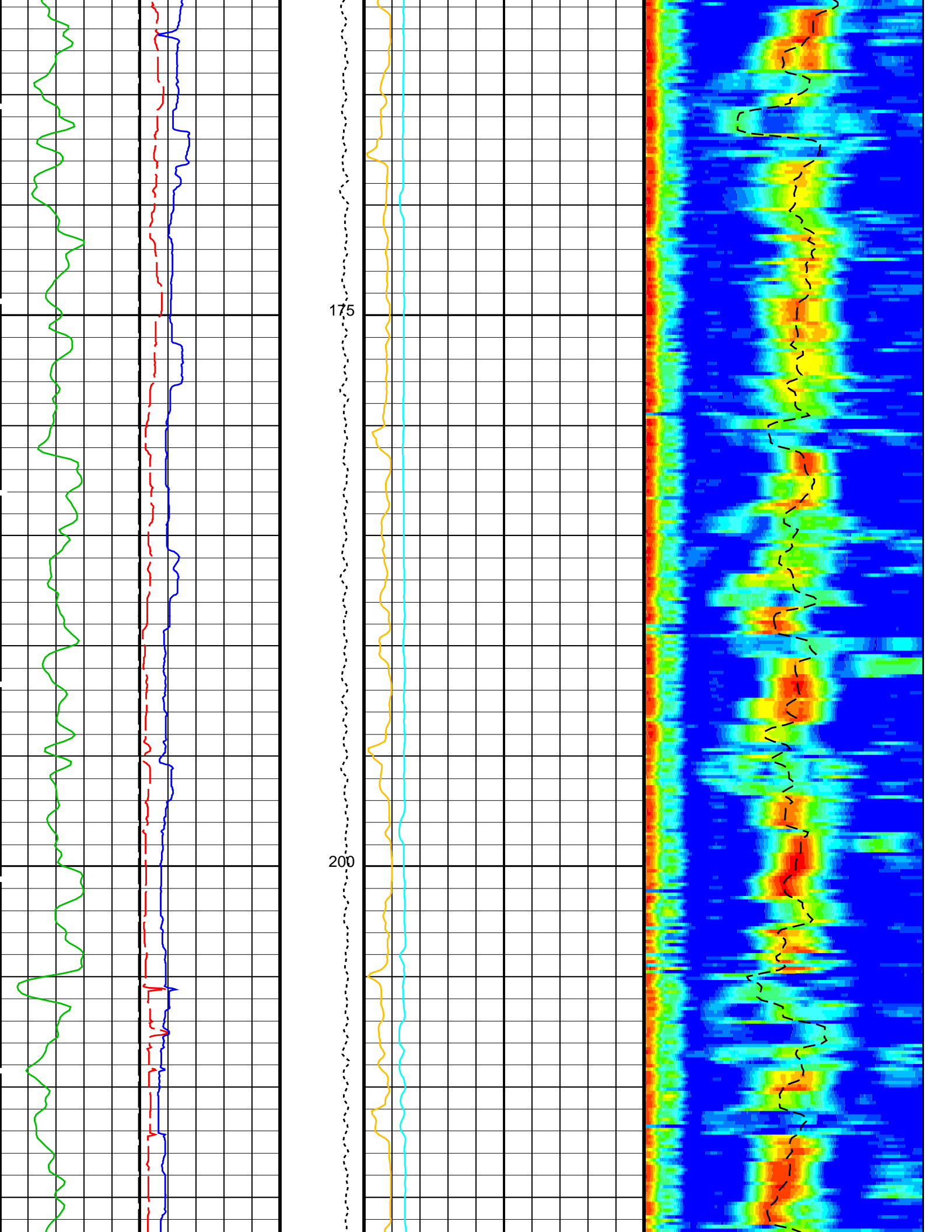
DLIS Name	New Value	Previous Value	Depth & Time
DSHL	75 US/F	220 US/F	946.4 04:51:04
	75 US/F	75 US/F	799.9 04:51:22
	220 US/F	75 US/F	219.9 04:52:37
DSHU	400 US/F	1200 US/F	946.4 04:51:04
	1200 US/F	400 US/F	799.9 04:51:22
	1200 US/F	1200 US/F	219.9 04:52:37

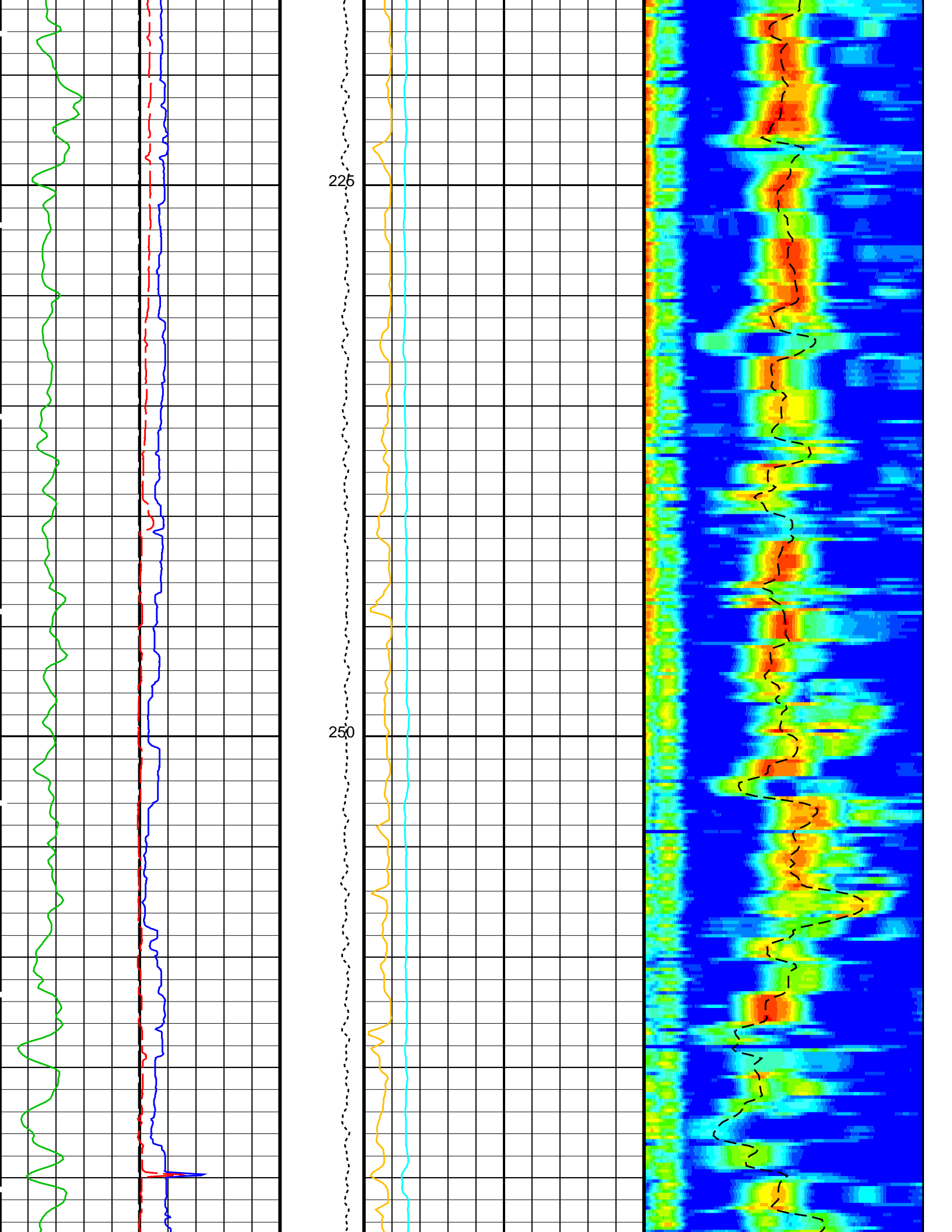
PIP SUMMARY

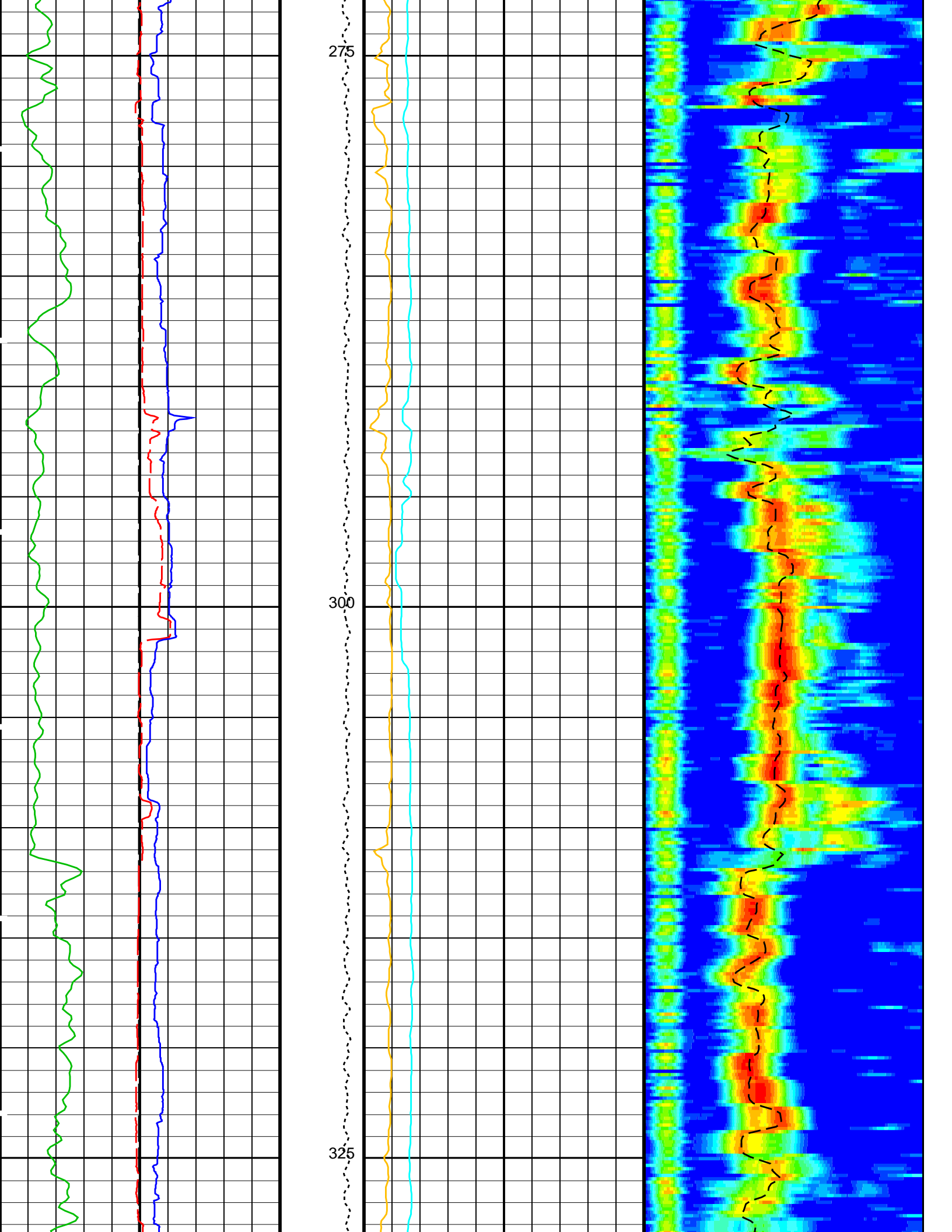
Time Mark Every 60 S

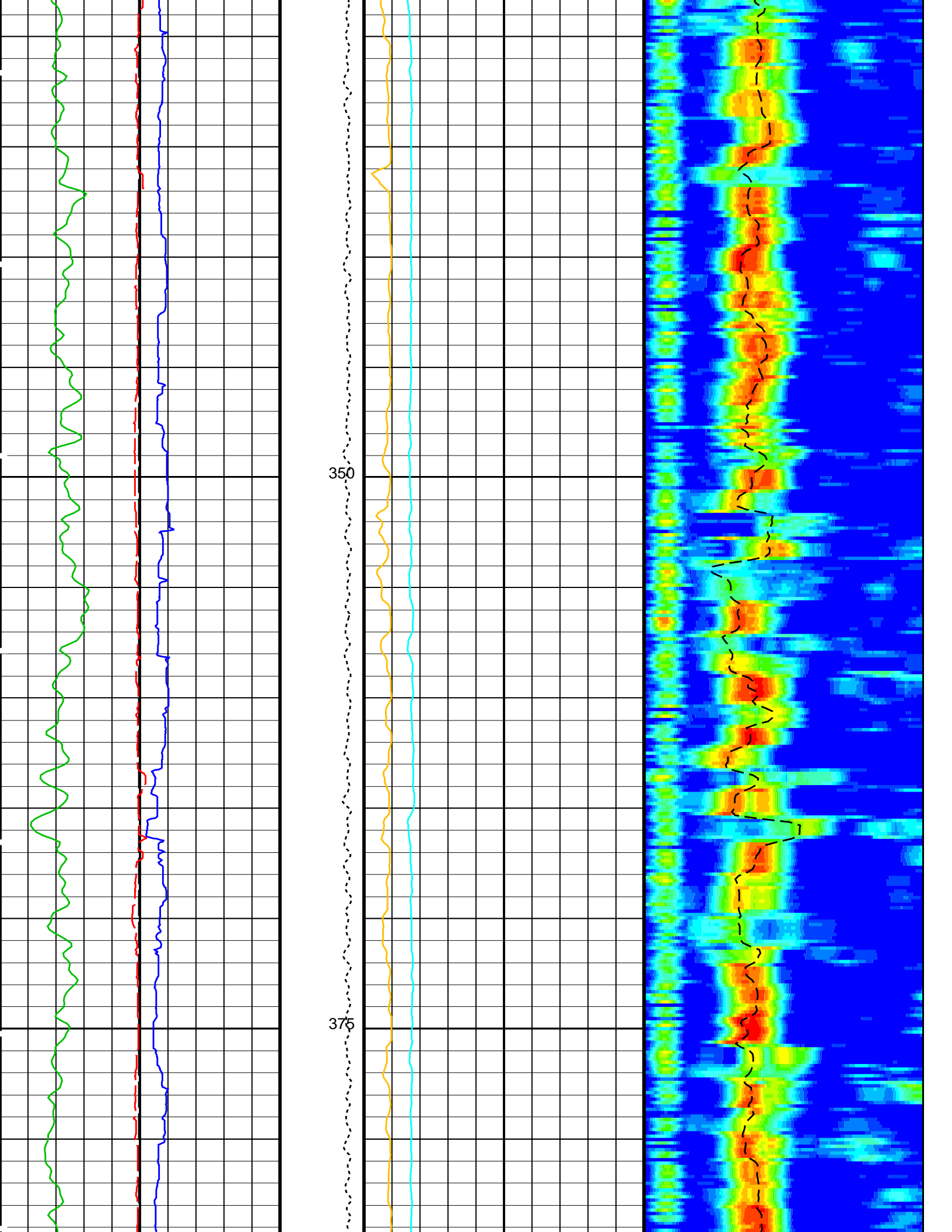
Gamma Ray (GR_EDTC) (GAPI) 0 150		Sonic Velocity (SVEL) (M/S) 1000 6000	Amplitude Min Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F) 75 1200
Caliper 2 (C2) (IN) 0 20		Peak Coherence / RA - Upper Dipole (CHR2) (-----) 0 10	Delta-T Shear / RA - Upper Dipole (DT2R) (US/F) 75 1200
Caliper 1 (C1) (IN) 0 20		Tension (TENS) (LBF) 0 5000	
Bit Size (BS) (IN) 0 20			

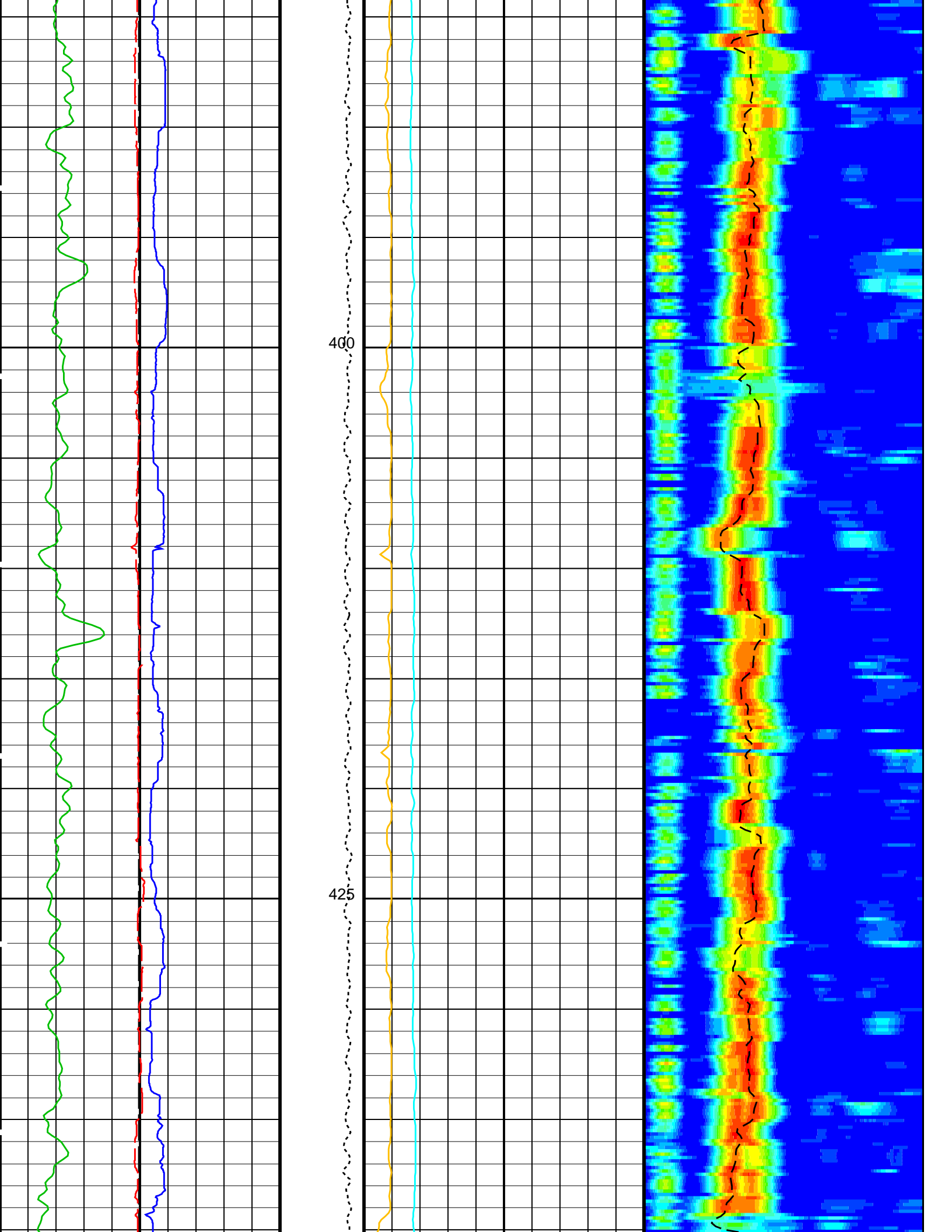


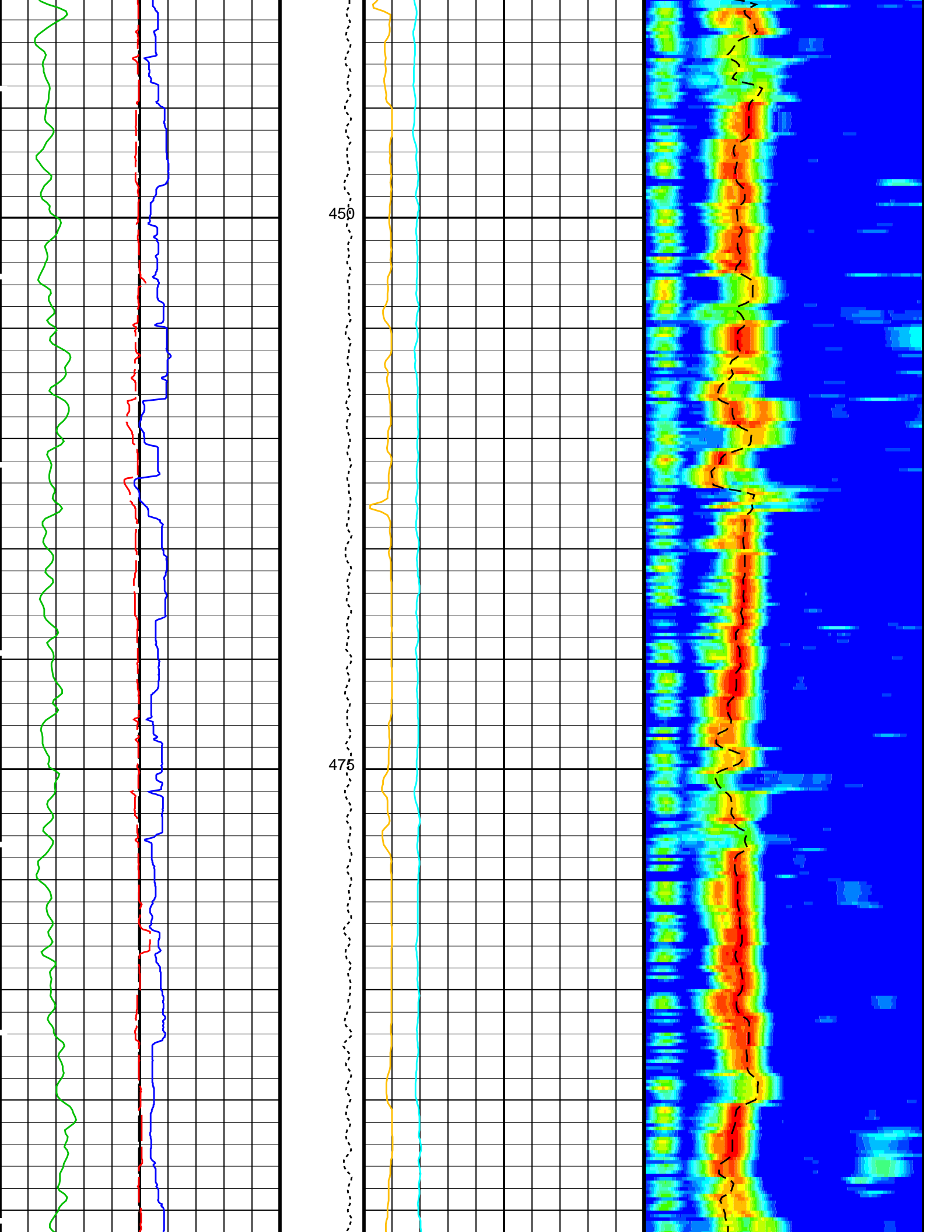


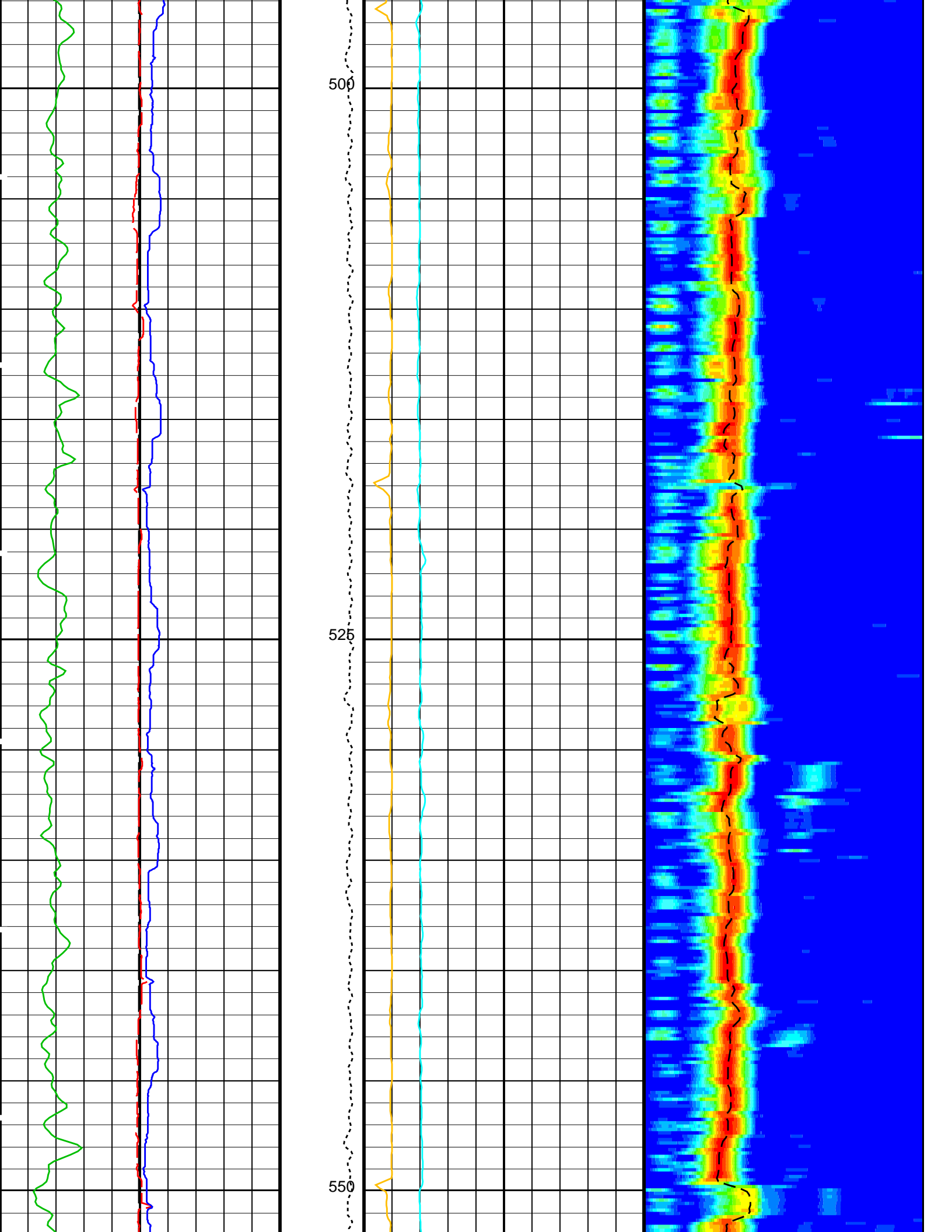


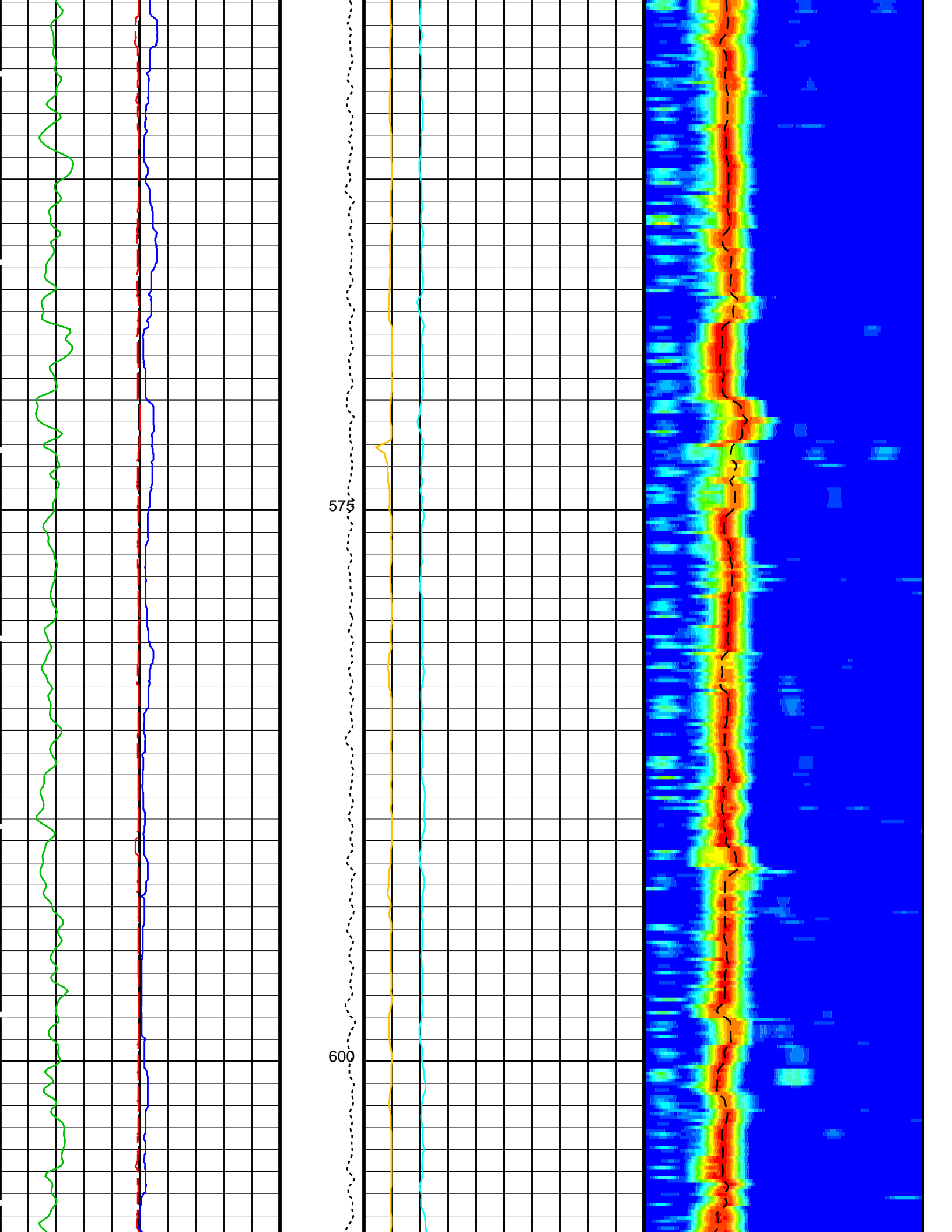


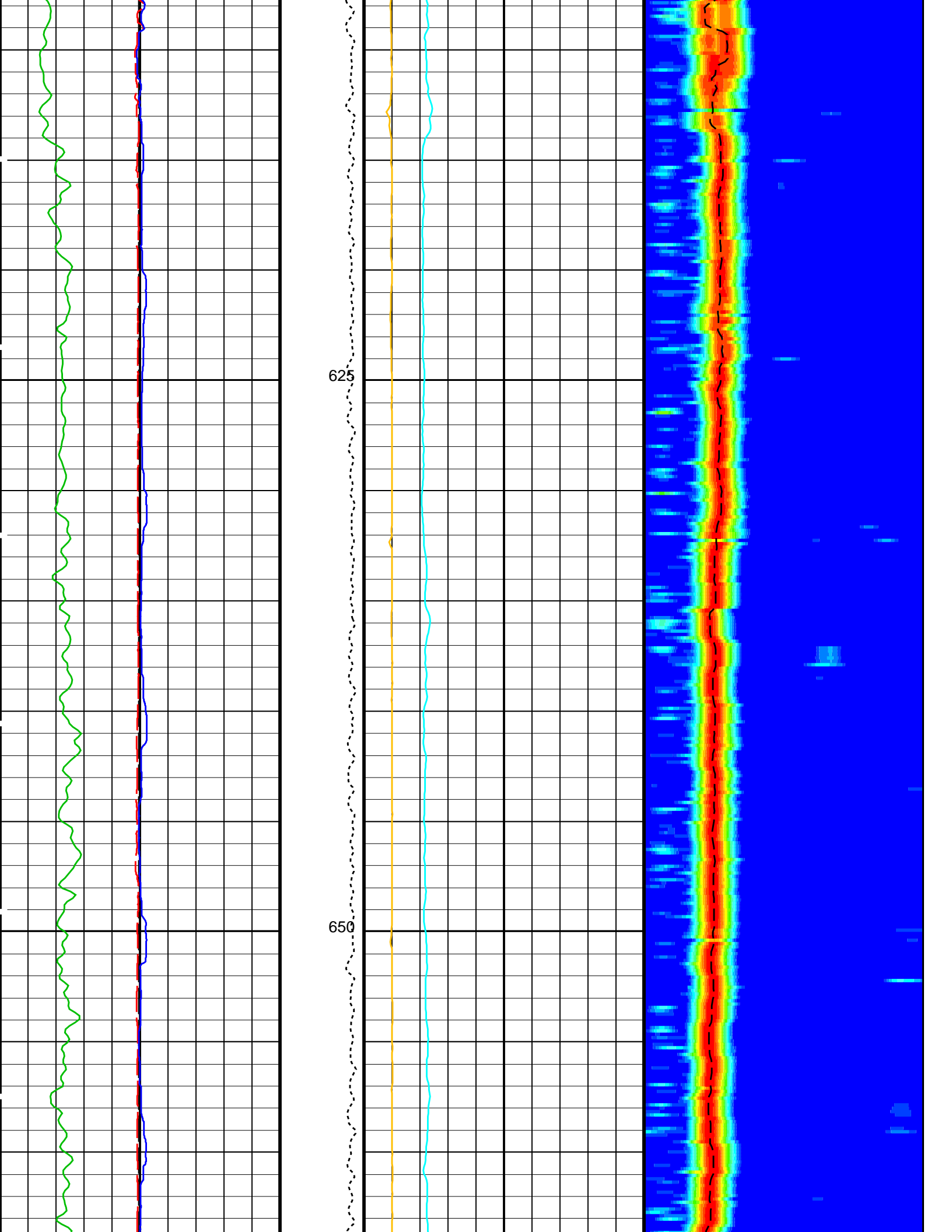


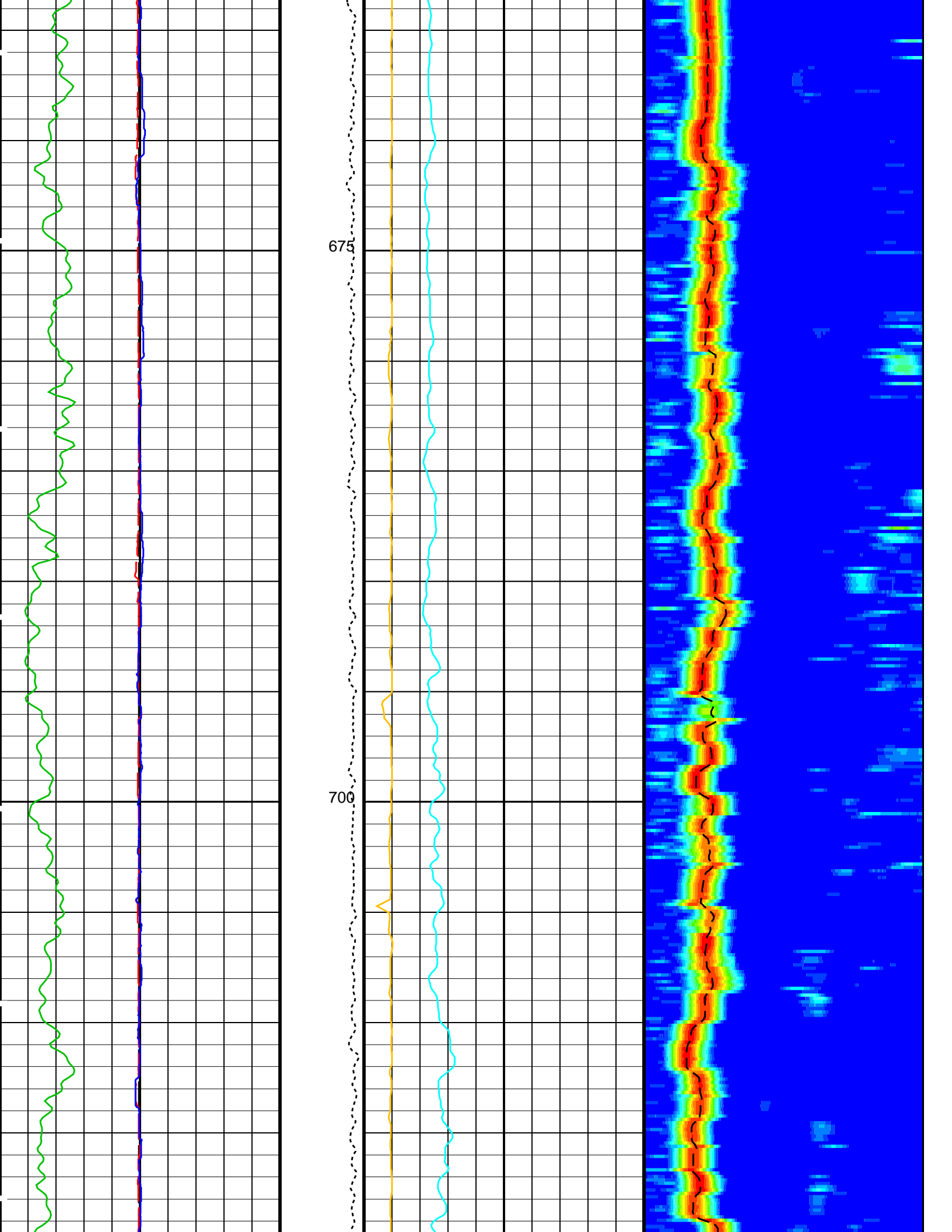


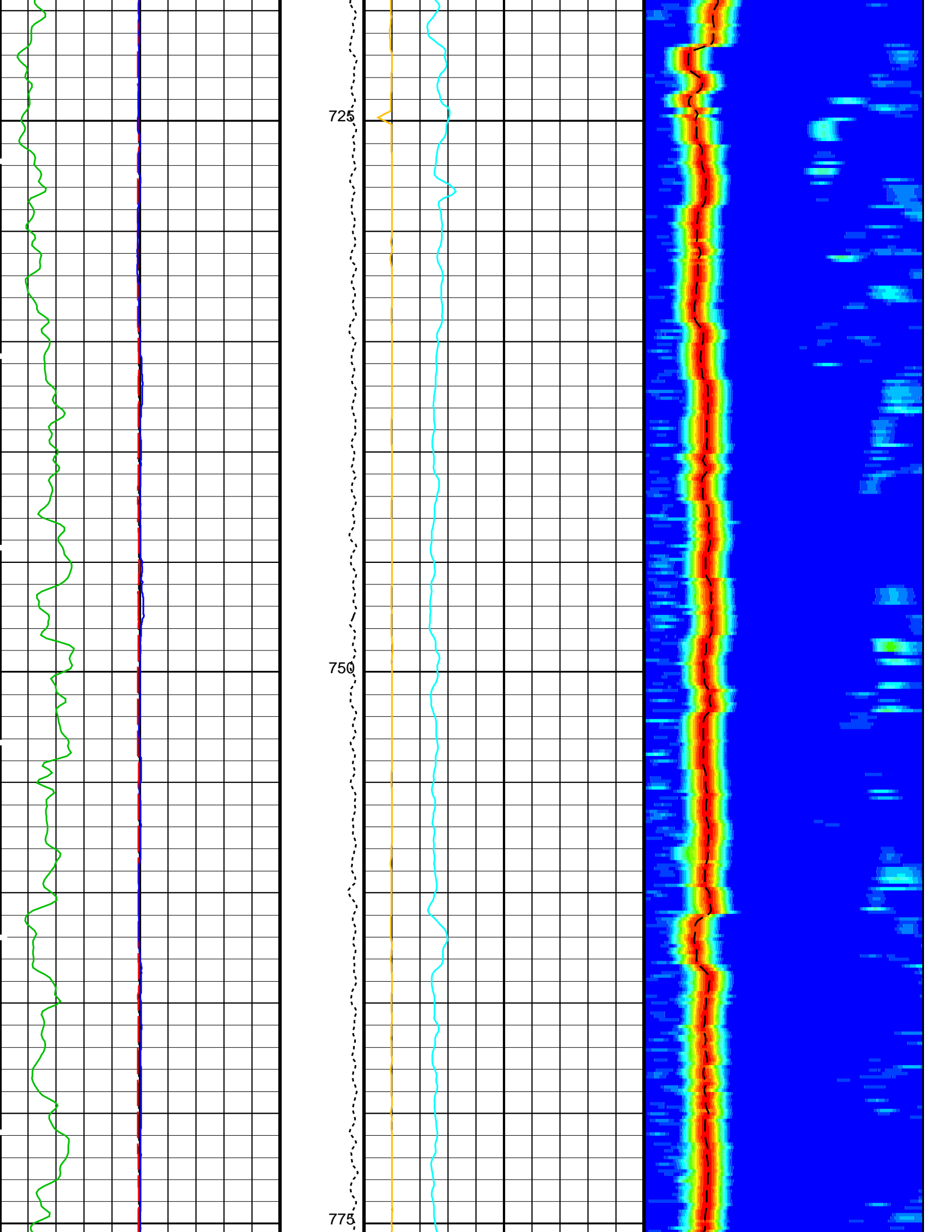


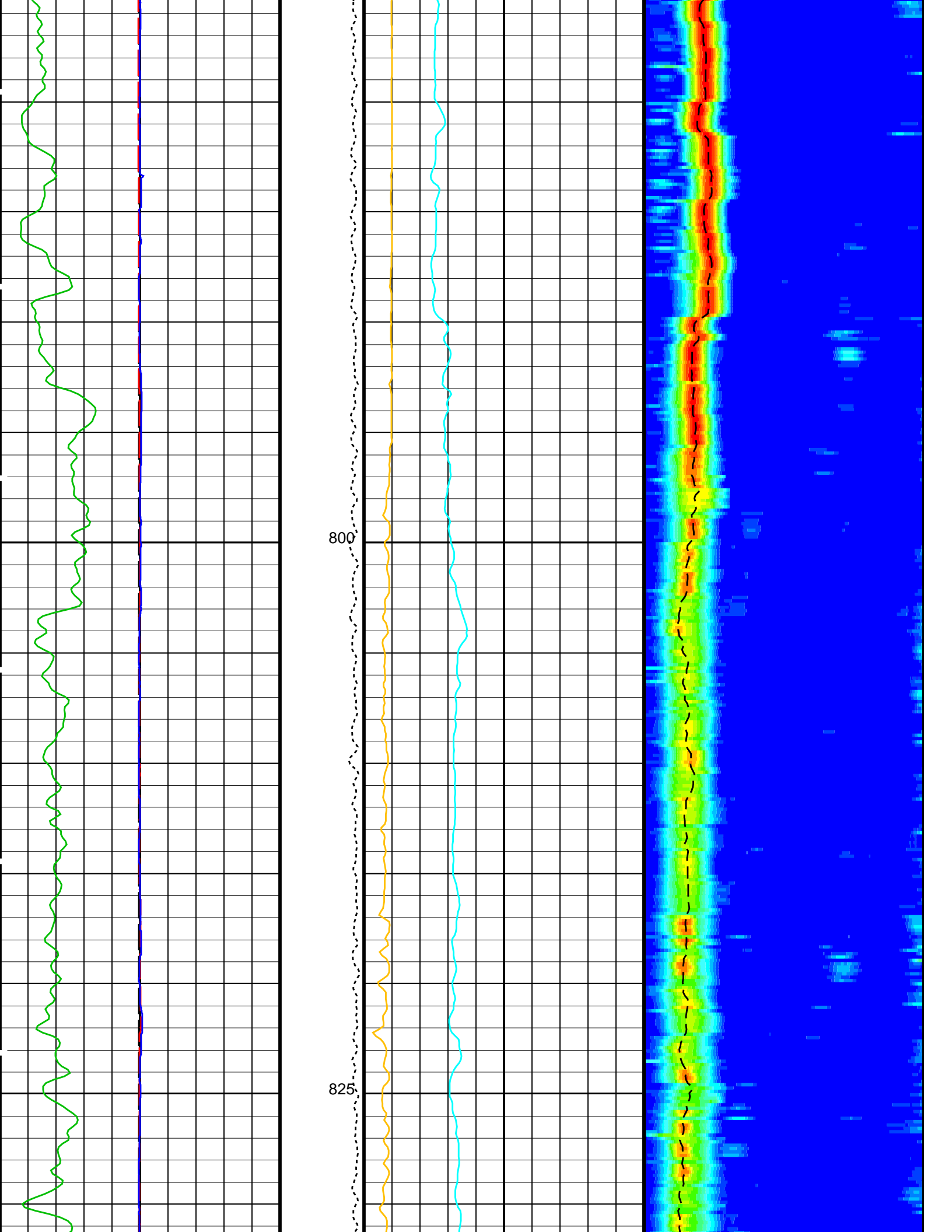


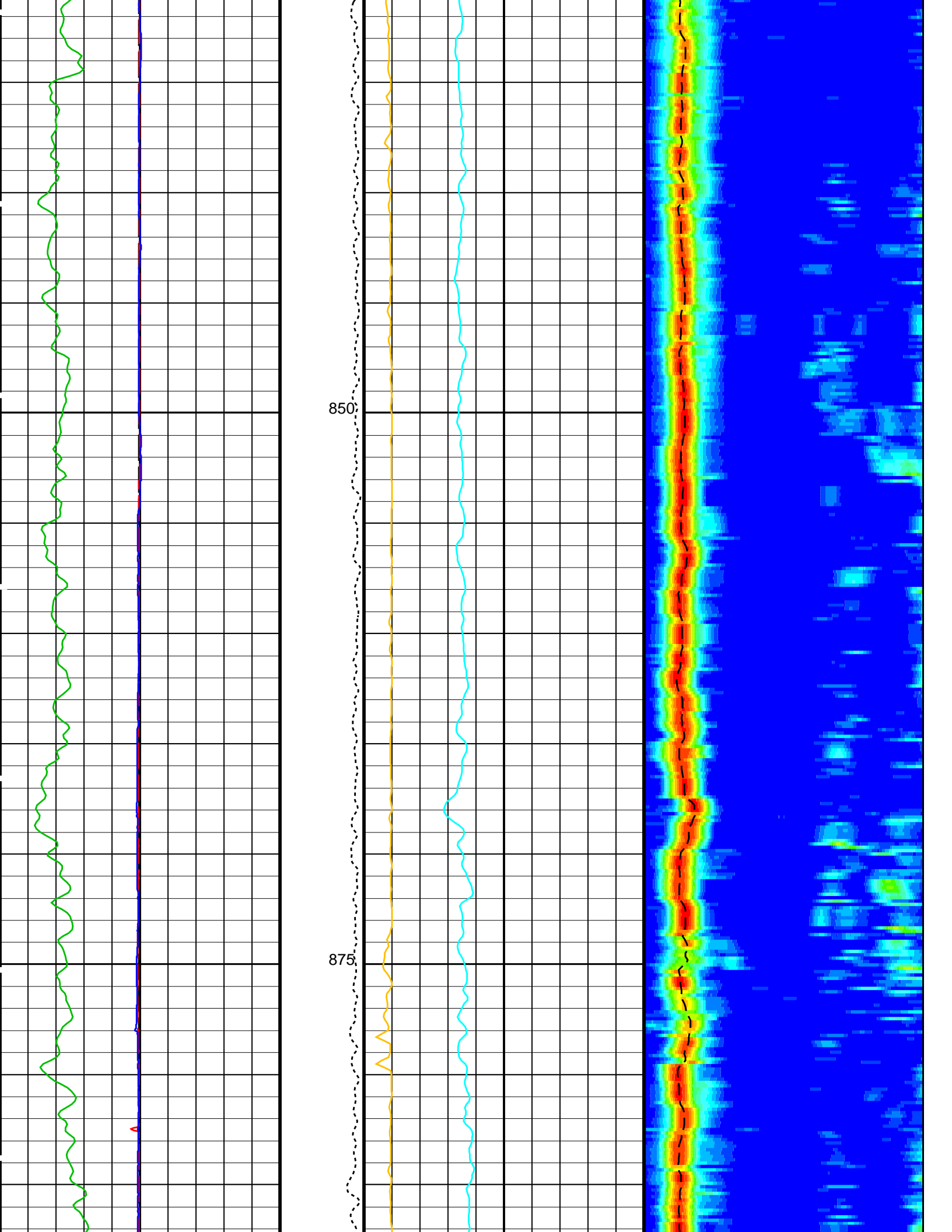


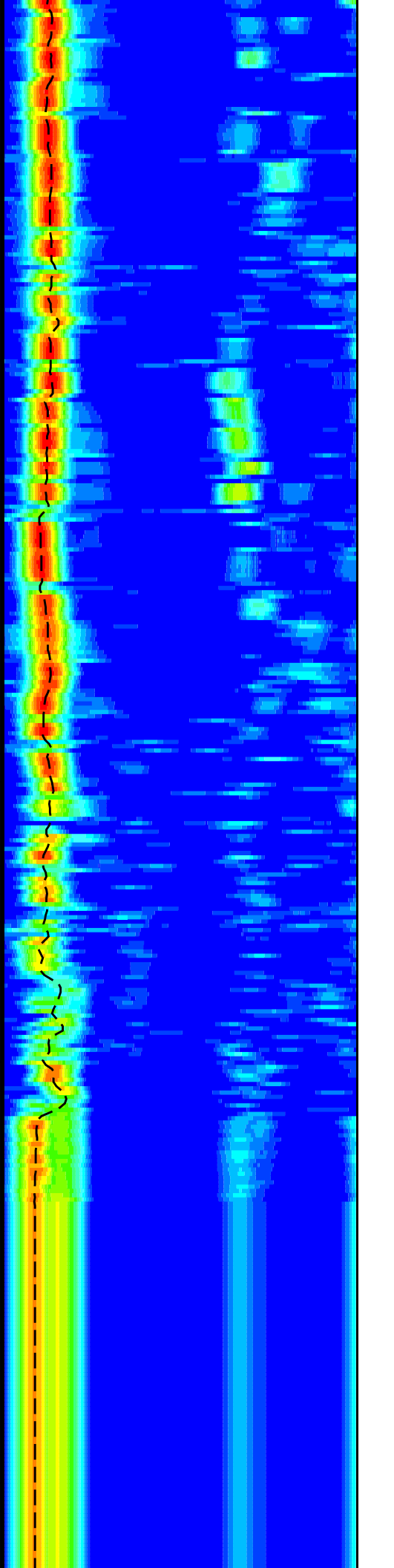
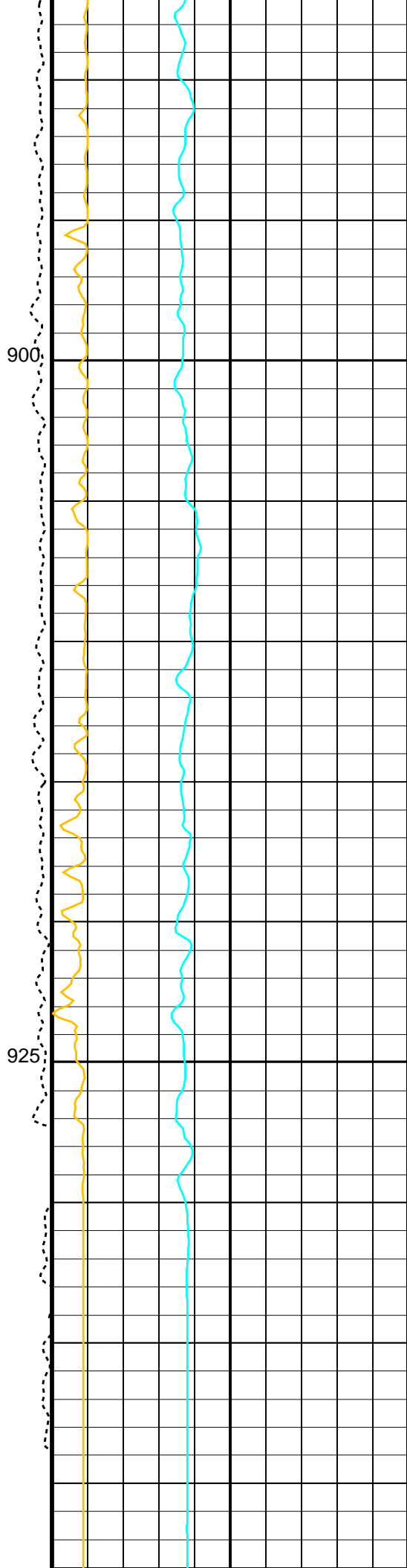
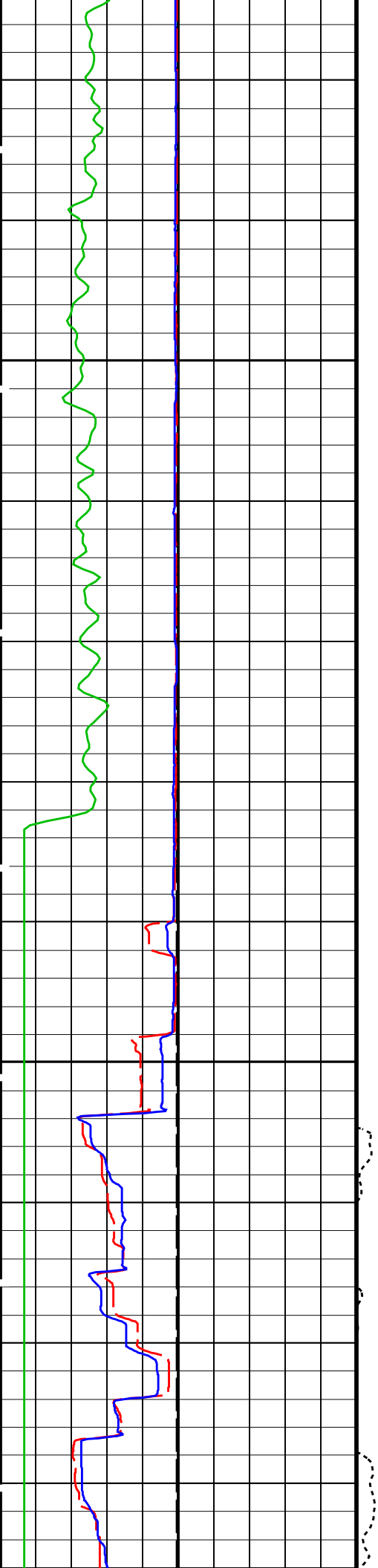


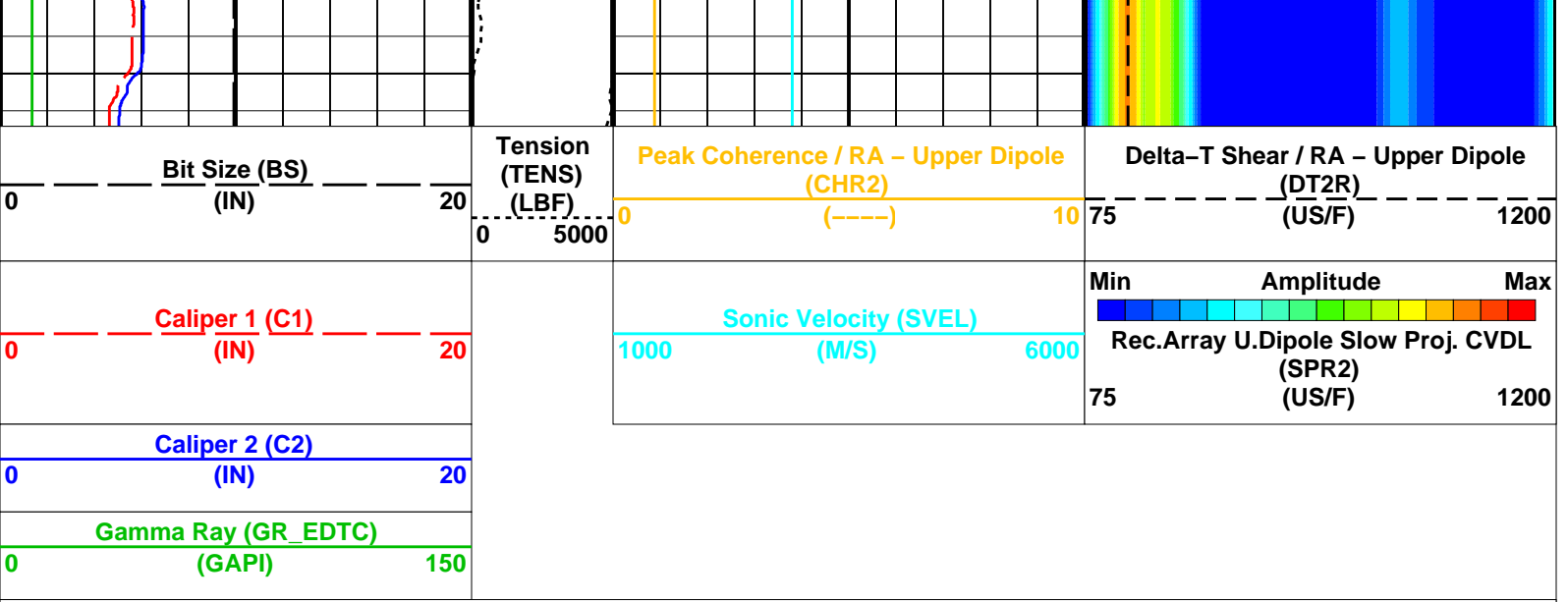












PIP SUMMARY

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	220 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200 US/F
DSI2	Digitizer Sample Interval 2	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DT2R 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	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	B1-2K
SLL2	STC Slowness Lower Limit - Upper Dipole	75 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	1200 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	20200 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	-2122.7 M
PP	Playback Processing	RECOMPUTE

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200

Graphics File Created: 25-Apr-2014 04:51

MEST-B 19C0-187
 DSST-B 19C0-187
 HNGS-BA 19C0-187

DTA-A 8453
 HNGC-B 19C0-187
 EDTC-B SKK-5169-EDTCB

Input DLIS Files

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

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							
Before: 22-Apr-2014 17:16 PROM HAS BEEN READ CORRECTLY							
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							
Before: 22-Apr-2014 17:16 PROM HAS BEEN READ CORRECTLY							
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

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

Auxiliary Equipment:

HNGC Housing HNGH – A 115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde HNGS – BA 194

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)							

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)							

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)	

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 350, Site U1437D**

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

Rig: **JOIDES Resolution**

Country:

DSI Sonic

Upper Dipole