Schlumberger

Company: **International Ocean Discovery Program**

Well: **Expedition 374, Site U1521A**
Field: **Ross Sea W. Antarctic Ice Sheet History**
Rig: **JOIDES Resolution** Ocean: **Southern**

Rig: JOIDES Resolution
Field: Ross Sea W. Antarctic Ice Sheet
Location: Latitude: S 75.6839*
Well: Expedition 374, Site U1521A
Company: International Ocean Discovery Pr

Formation Micro Scanner (FMS)
Dipole Shear Sonic Imager (DSSI)
Hostile Natural Gamma Ray (HNGS)

LOCATION

Latitude: S 75.6839*
Longitude: W 179.67179*

Elev.: K.B. 0.00 m
G.L. −573.00 m
D.F. 0.00 m

Permanent Datum: Sea Floor
Log Measured From: Rig Floor
Drilling Measured From: Rig Floor

Elev.: −573.00 m
573.00 m above Perm. Datum

API Serial No.	Max. Hole Devi. 8.9 deg	Longitude W 179.67179	Latitude S 75.6839

	Run 1	Run 2	R
Logging Date	20−Jan−2018		
Run Number	1		
Depth Driller	1223 m		
Schlumberger Depth	1221 m		
Bottom Log Interval	1221 m		
Top Log Interval	572 m		
Casing Driller Size @ Depth	5.500 in @ 616.9 m	@	
Casing Schlumberger	613 m		
Bit Size	9.875 in		
Type Fluid In Hole	Sepiolite		
MUD Density / Viscosity	1.26 g/cm3		
MUD Fluid Loss / PH	8.07		
MUD Source Of Sample	N/A		
RM @ Measured Temperature	@ 73 degC	@	
RMF @ Measured Temperature	@	@	
RMC @ Measured Temperature	@	@	
Source RMF / RMC	N/A / N/A		
RM @ MRT / RMF @ MRT	@ 19 / @ 19	@ / @	
Maximum Recorded Temperatures	19 degC		
Circulation Stopped / Time	20−Jan−2018 / 20:00		
Logger On Bottom / Time	21−Jan−2018 / 1:15		
Unit Number / Location	627314 / Larose, LA		
Recorded By	K. Swain		
Witnessed By	Z. Mateo, J. Gales, B. Romans		

	Run 1	Run 2	R
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			
MUD Fluid Loss / PH			
MUD 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			

| | | |

EDTC−B 8317
EDTG−A/B 8305

TelStatus
EDTCB Ele — 32.57

HNGS−BA
HNGS−BA 194
HNSH−BA 204

Upper_1 — 31.87
Lower_2 — 31.66

32.57

HNGC−B
HNGH−A 3

HNGC Stat — 29.54

30.07

AH−MCD
AH−MCD 82

29.01

DSST−B
SPAC−B 8194
ECH−SD 8183
SMDR−BD 8232
SSIJ−BA 8204
SMDX−AA 8194

26.73

PWF — 11.18

AH−MCD2
AH−MCD2 1663

11.18

DTA−A
ECH−KE 8456

8.90

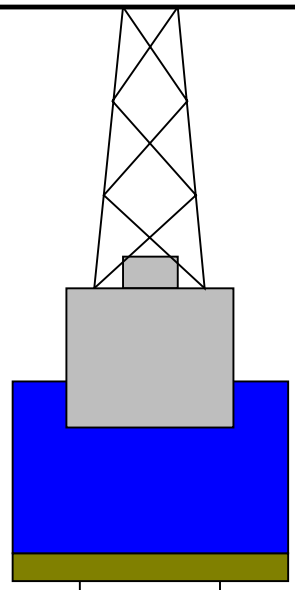
MEST−B
MEAH−B 769
MEAC−A 804
MEPH−A 701
GPIC−AC 840
MEPC−AB 806
MEDS−B 724

7.68

MEDR MEAC
MEPC MEDS−B — 0.46
HV DF ACCZ
Tension GPIT — 0.00
TOOL ZERO

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

Production String	(in) OD	(in) ID	(M) MD	Well Schematic	(M) MD	(in) OD	(in) ID	Casing String

	OD	ID	MD		MD	OD	ID	
Kelly Bushing Elevation			0					
Derrick Floor Elevation			0					
Mean Sea Level			11			4.1		
					573	4.1		Sea Floor
					632.1	9.875		Open Hole
					1223.1			Total Depth

Company: International Ocean Discovery Program | Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_037LUP	PRODUCER	22−Jan−2018 16:14	1222.1 M	528.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_053PUP	FN:76	PRODUCER	22−Jan−2018 19:17	1222.1 M	528.1 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
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
COLL	140 US/F	60 US/F	816.3 19:20:01
	190 US/F	140 US/F	676.8 19:21:02
	140 US/F	190 US/F	666.1 19:21:17

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

Peak Coherence / TA − P & S Shear (CHTS)
−1 (−−−−) 9

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

Peak Coherence / TA − P & S Comp (CHTP)
0 (−−−−) 10

Peak Coherence / RA − P & S Comp (CHRP)
0 (−−−−) 10

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (−−−−) 10

SAM4 Waveform Gain (WFG4)
0 (−−−−) 1000

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

Min Amplitude Max

Tr.Array P&S Slow Proj. CVDL (SPT4)
40 (US/F) 240

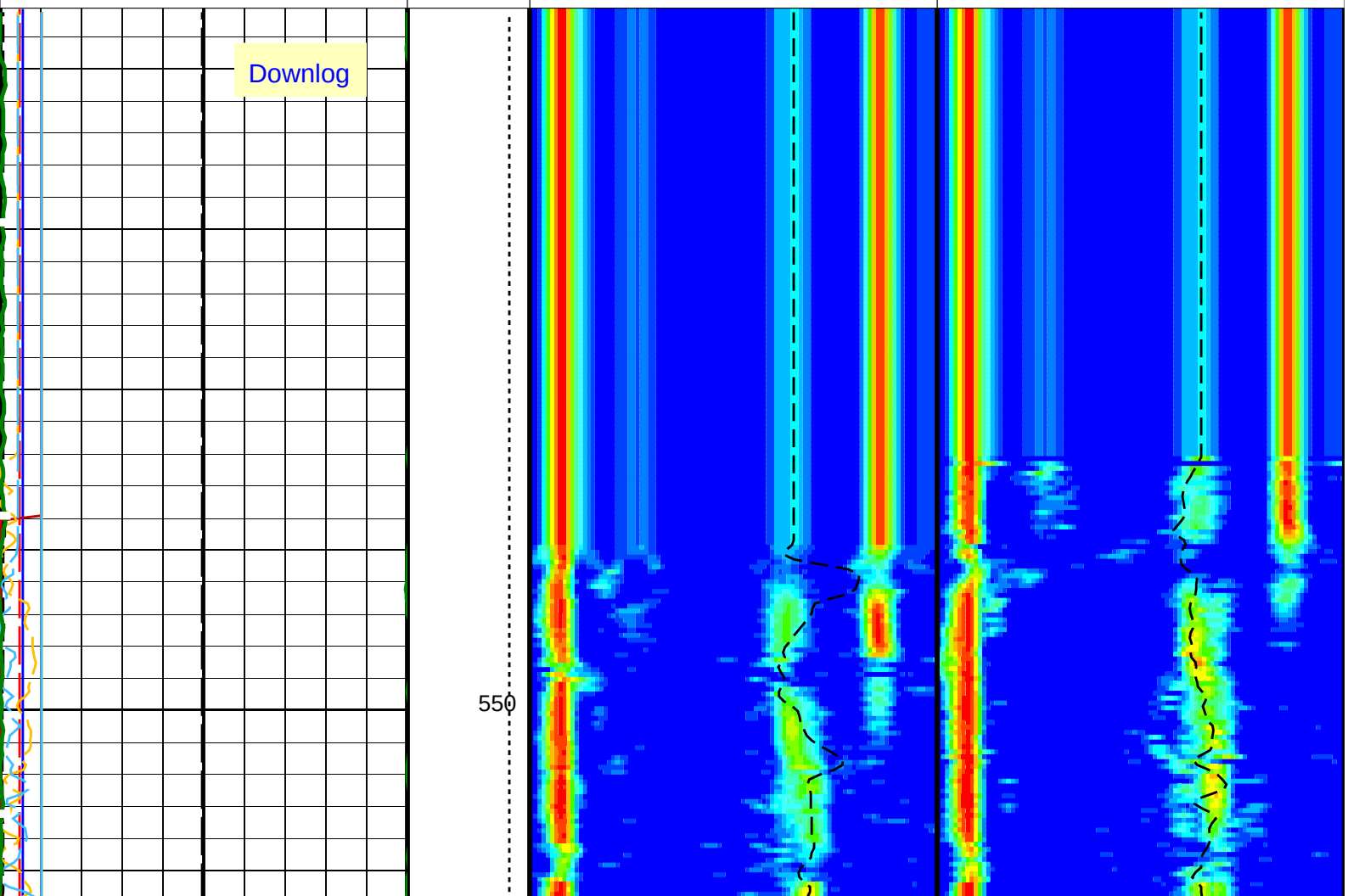
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

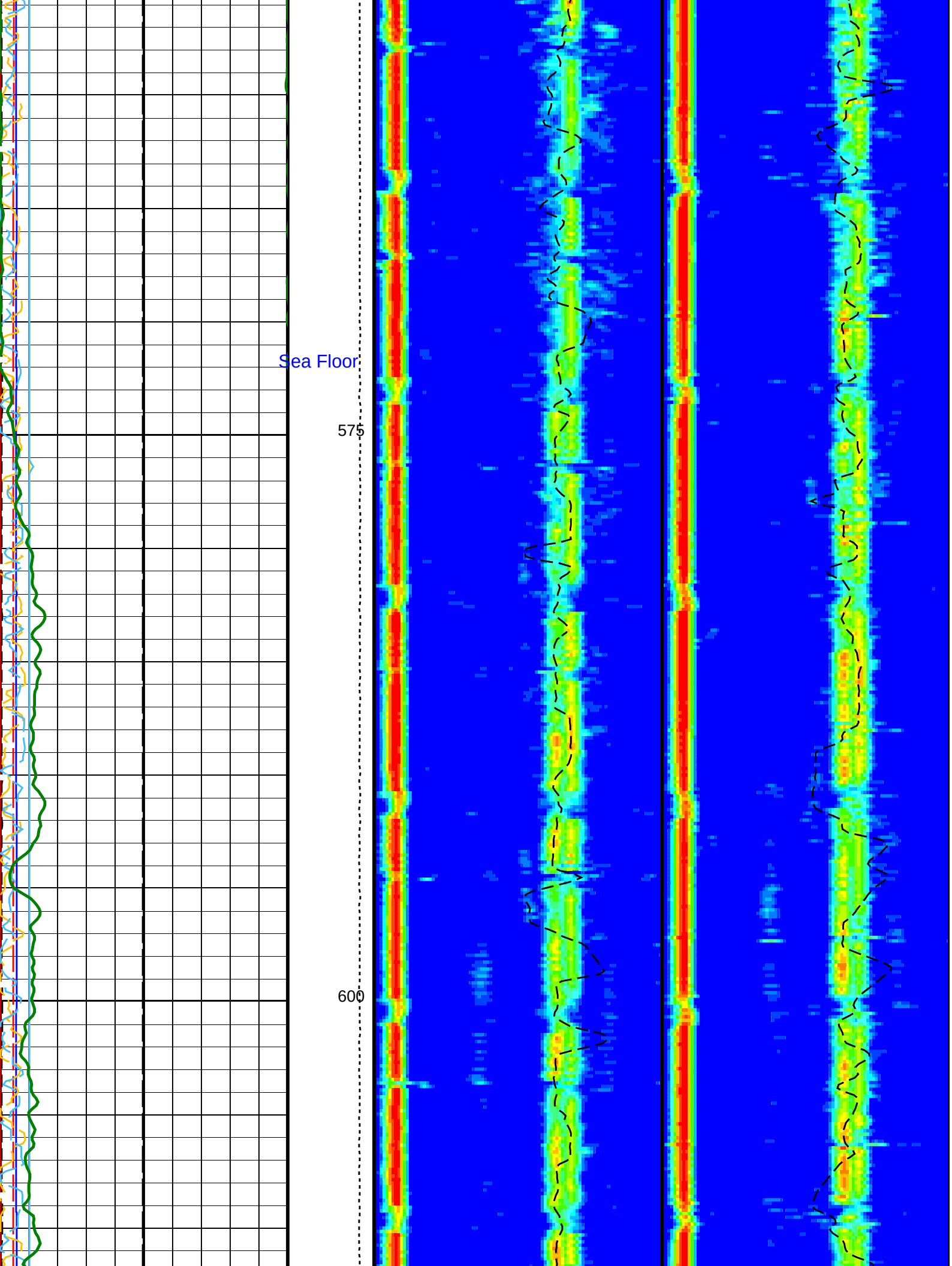
Delta−T Shear / TA − P & S (DTTS)
40 (US/F) 240

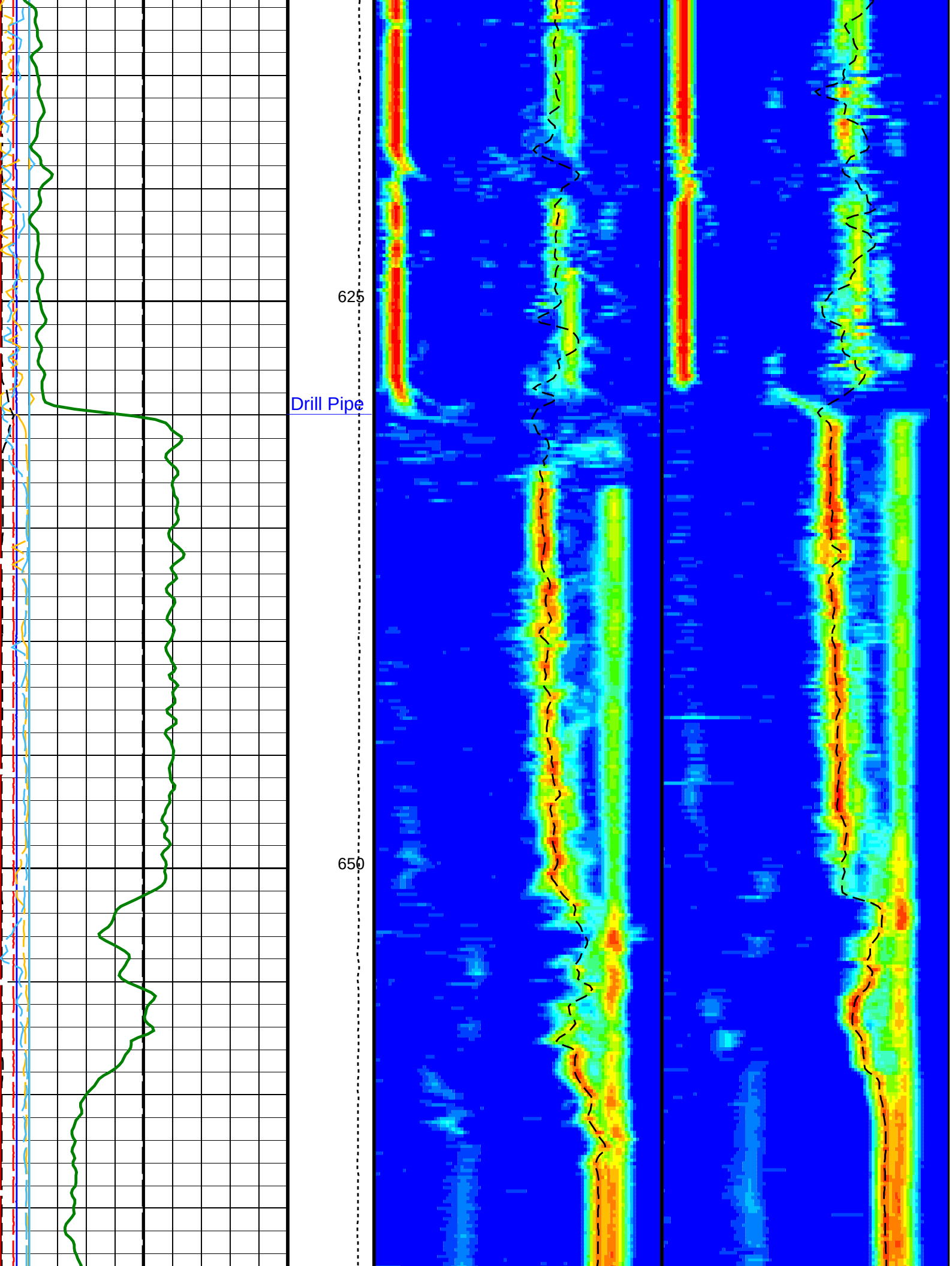
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

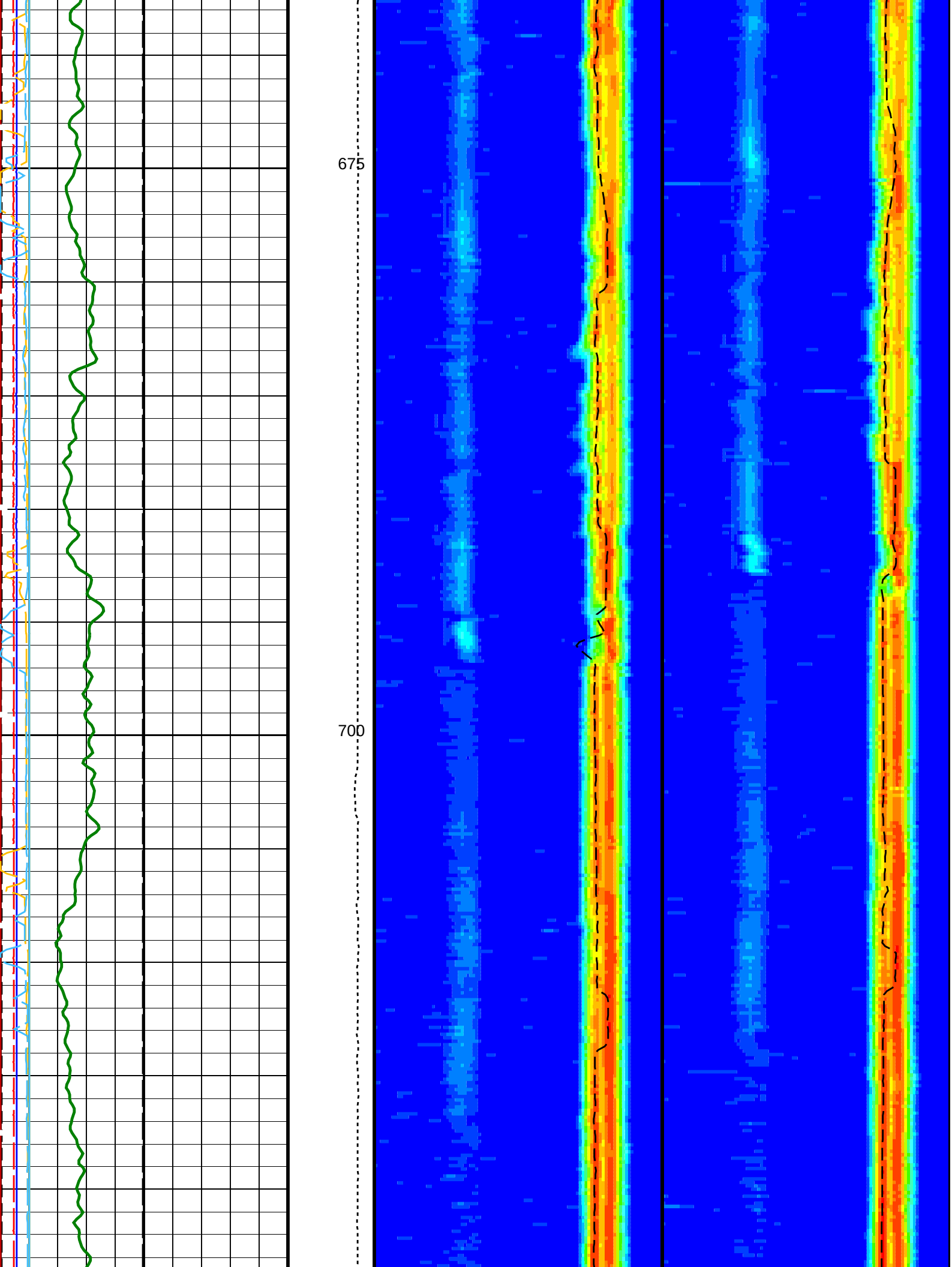
Delta−T Comp / TA − P & S (DTTP)
40 (US/F) 240

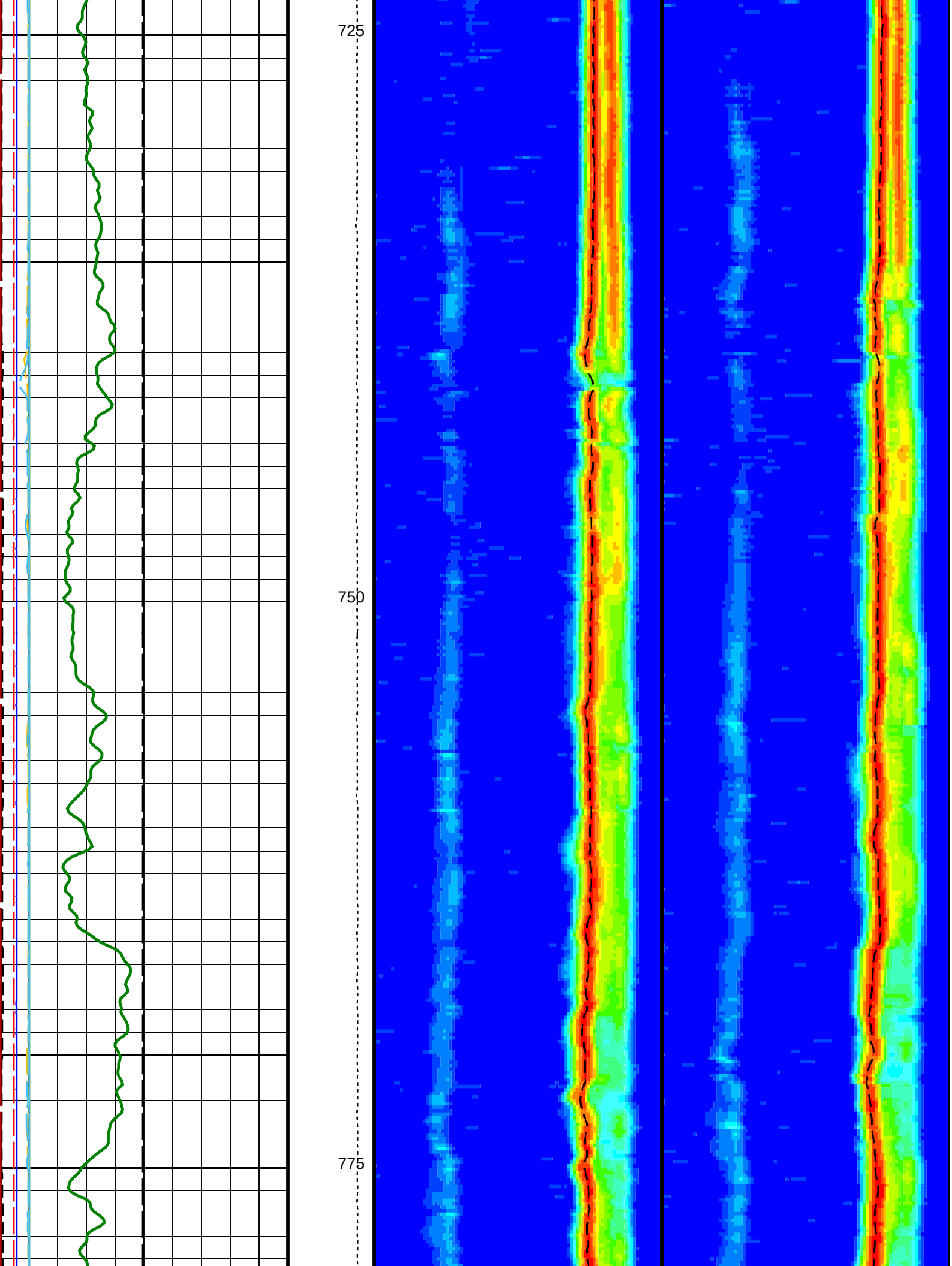
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

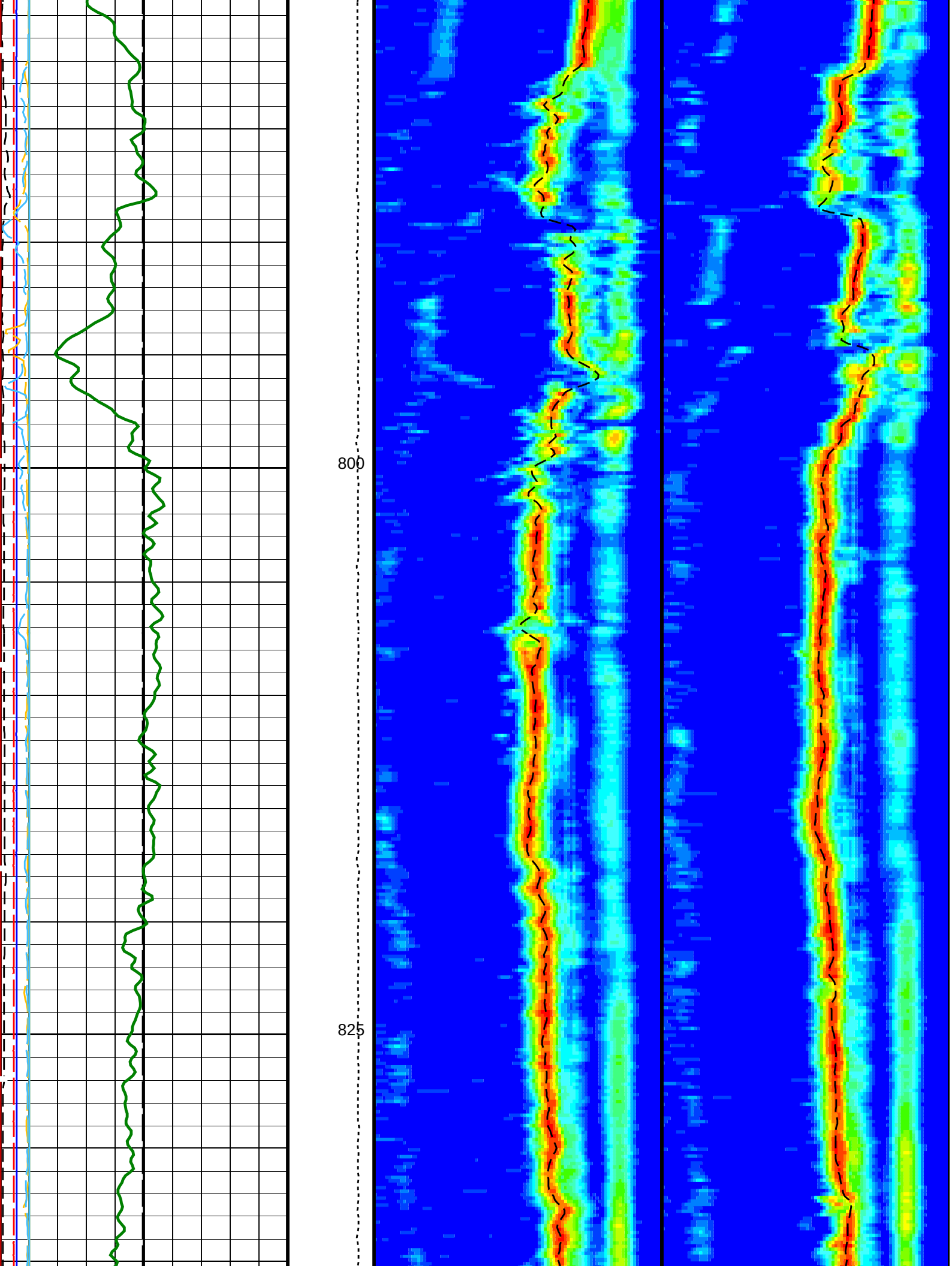


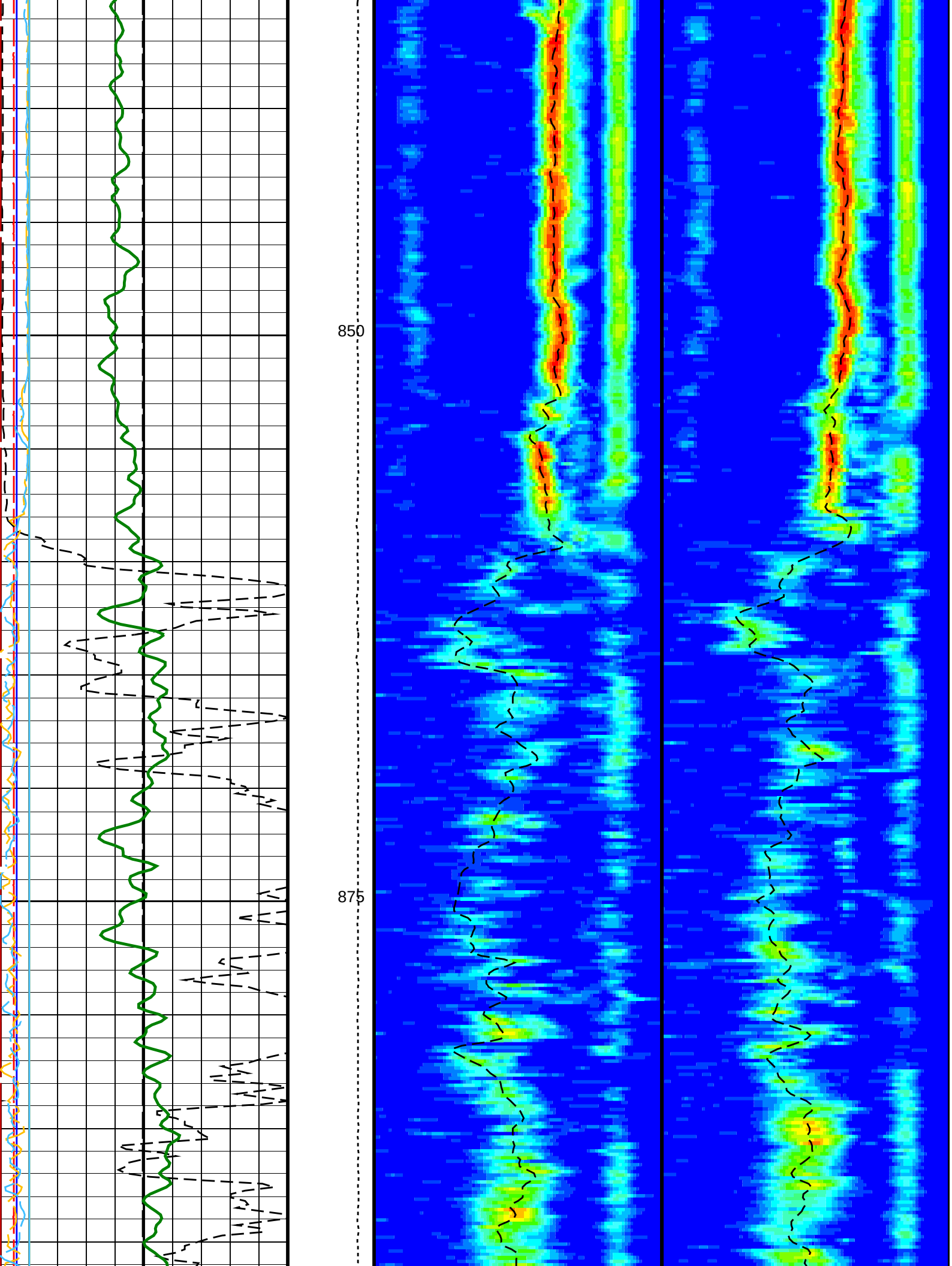

Sea Floor
575
600

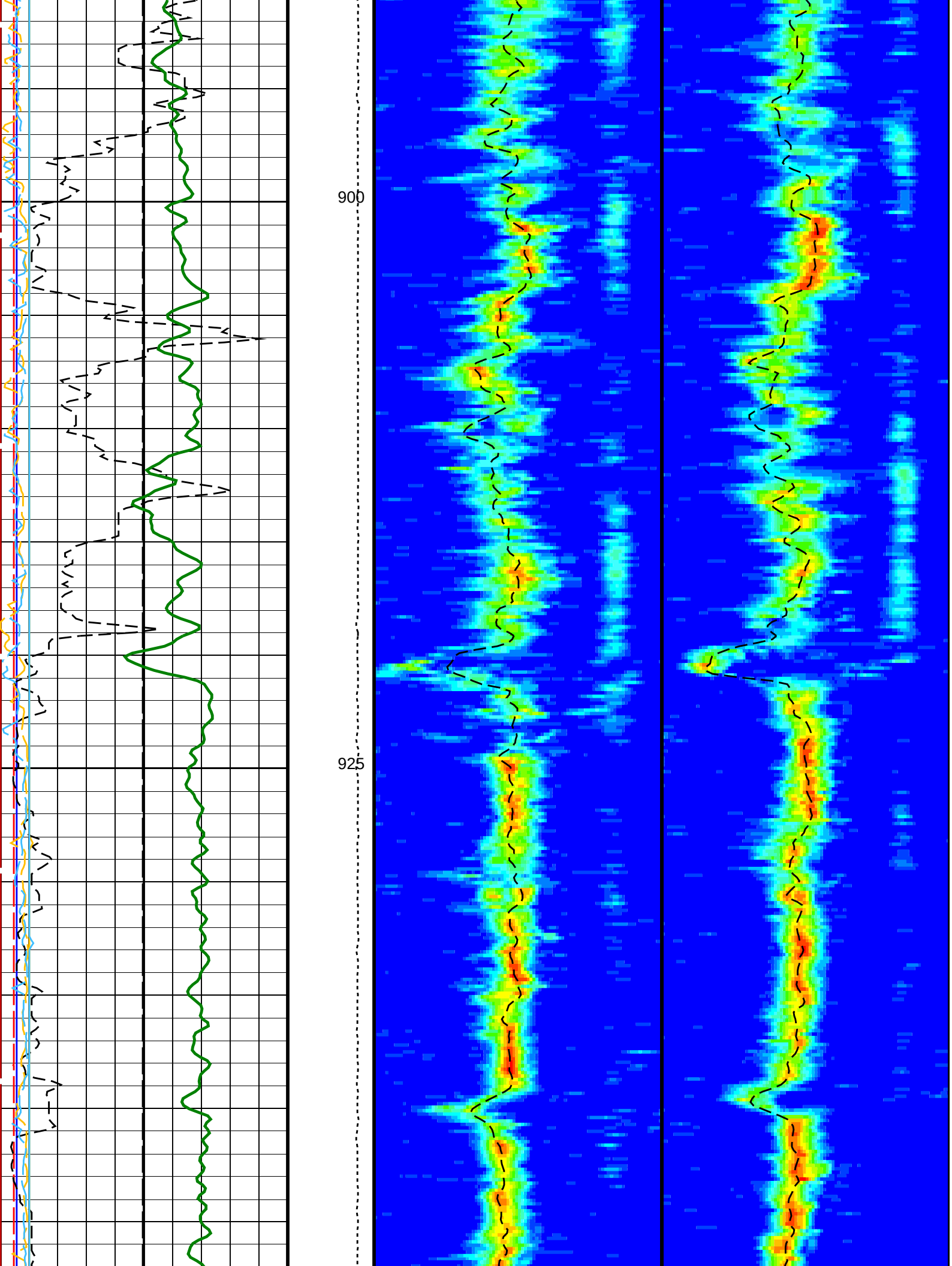

625
Drill Pipe
650

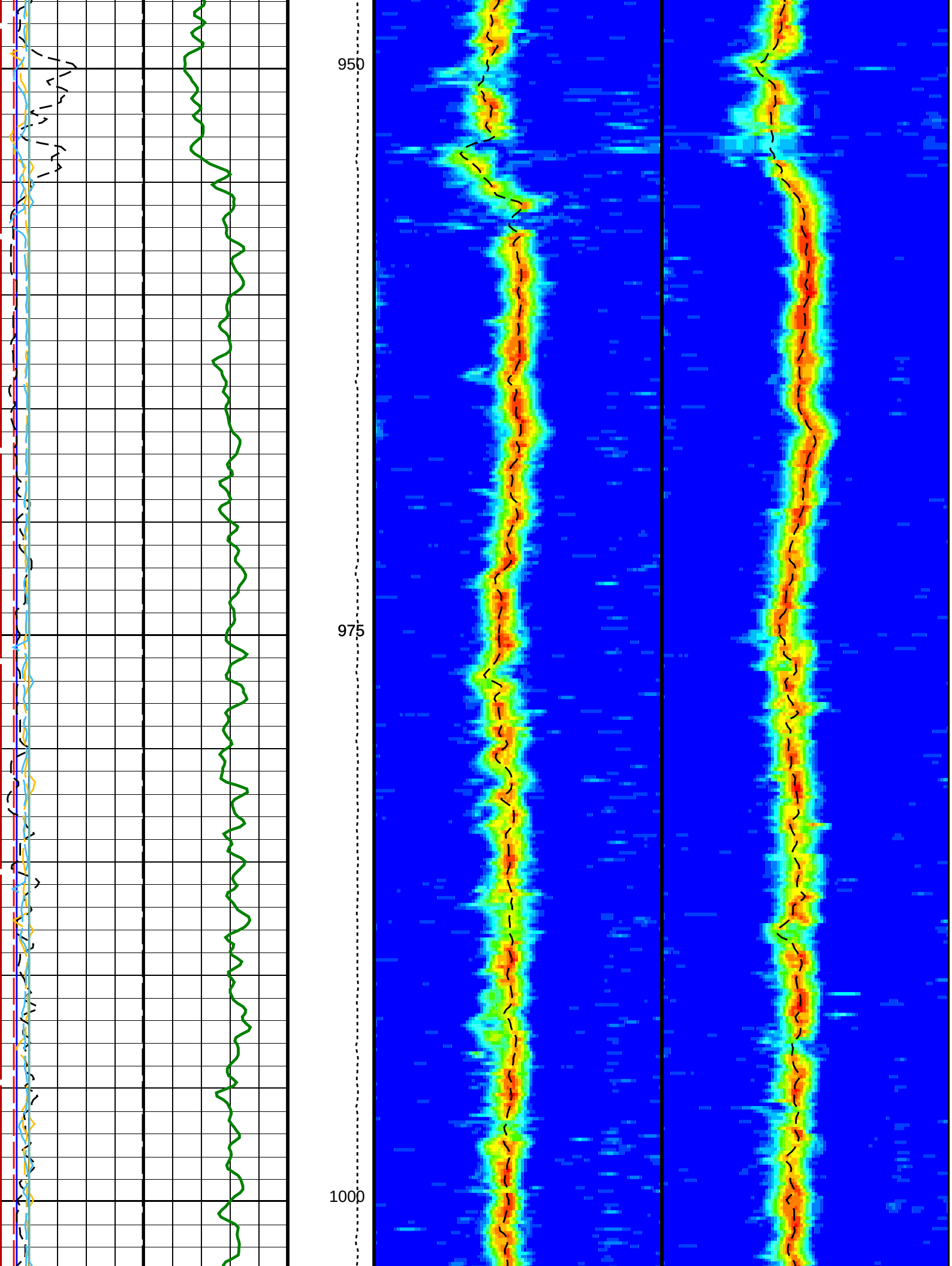

675
700

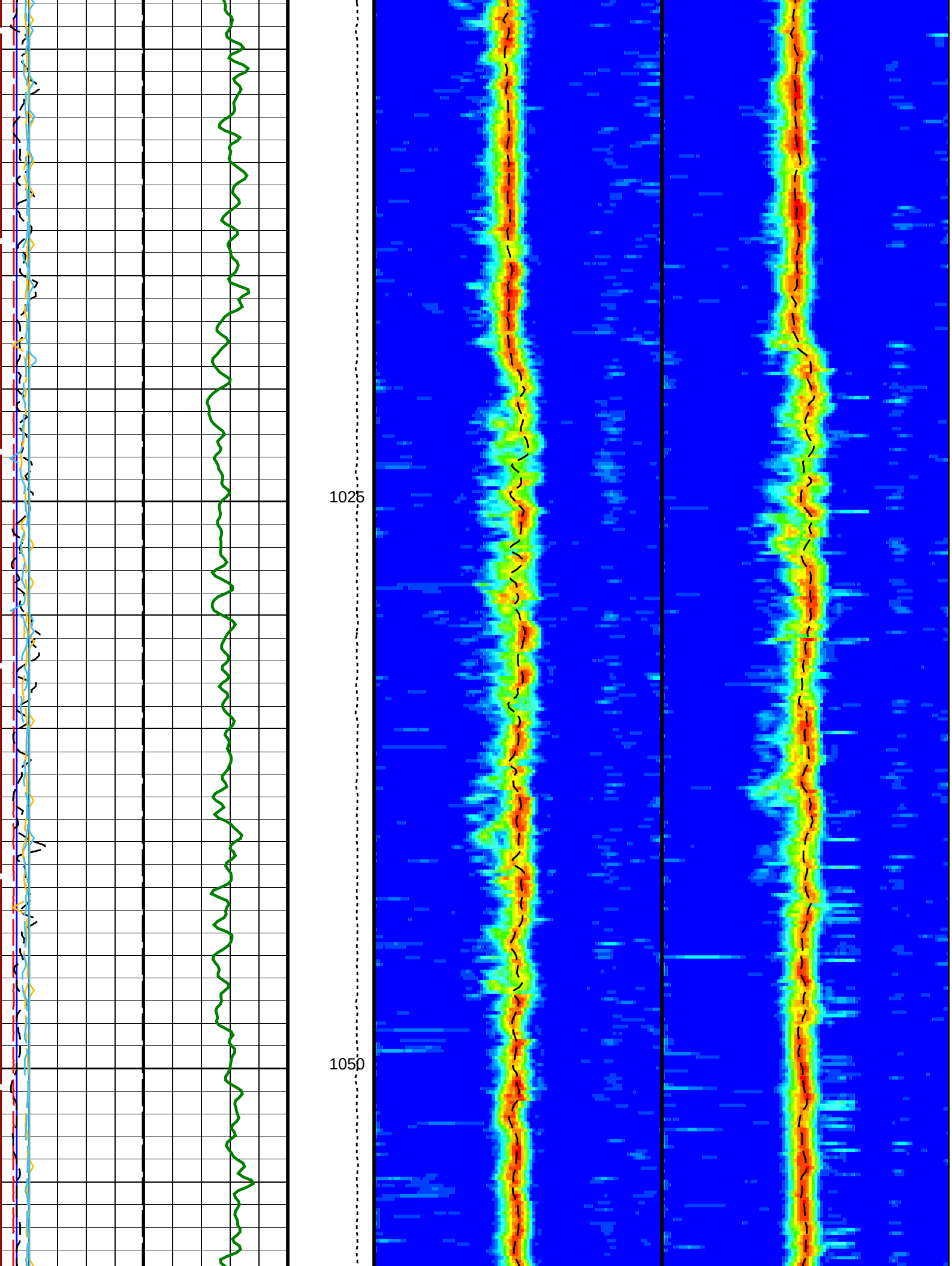

725
750
775

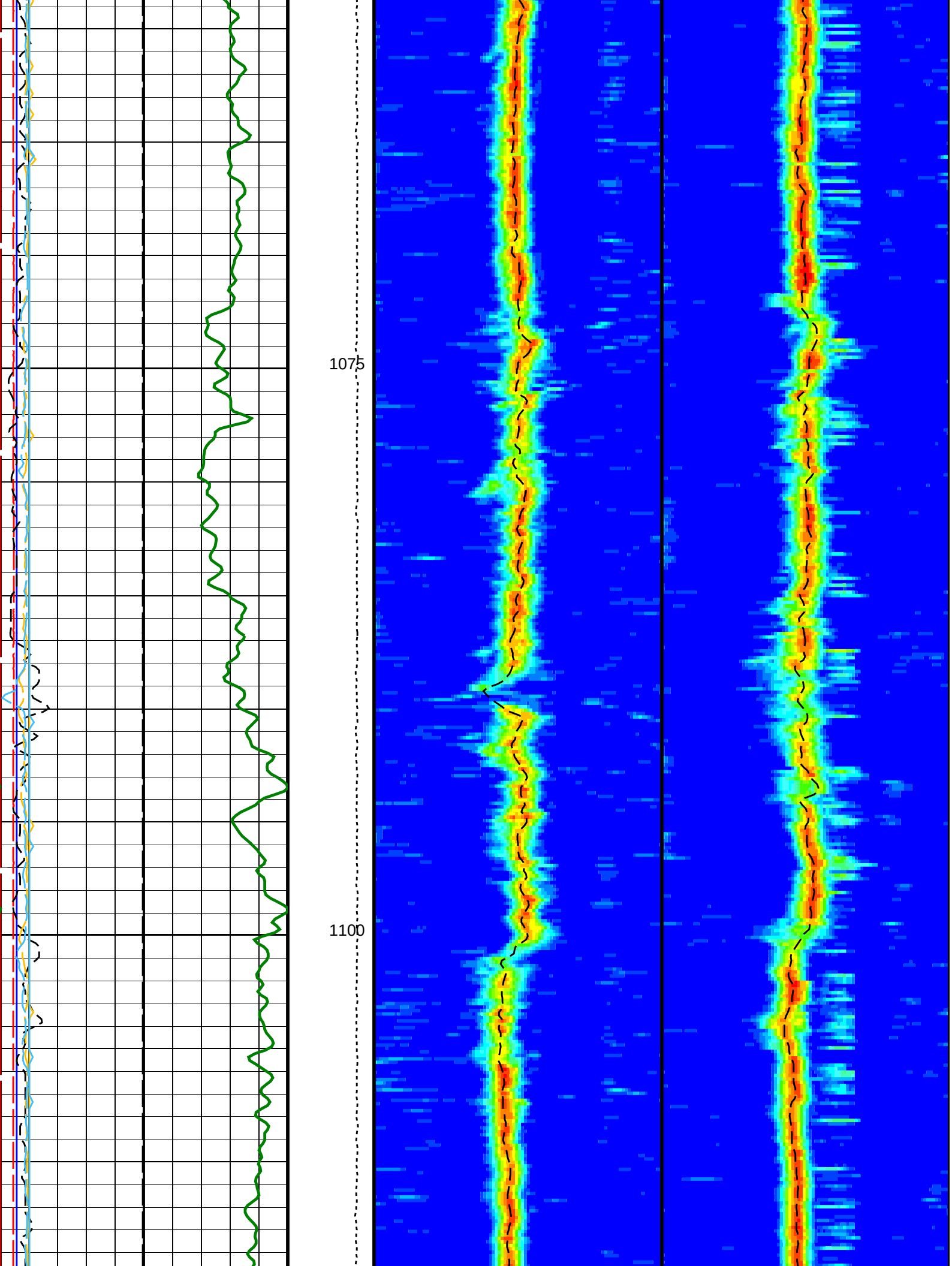

800
825

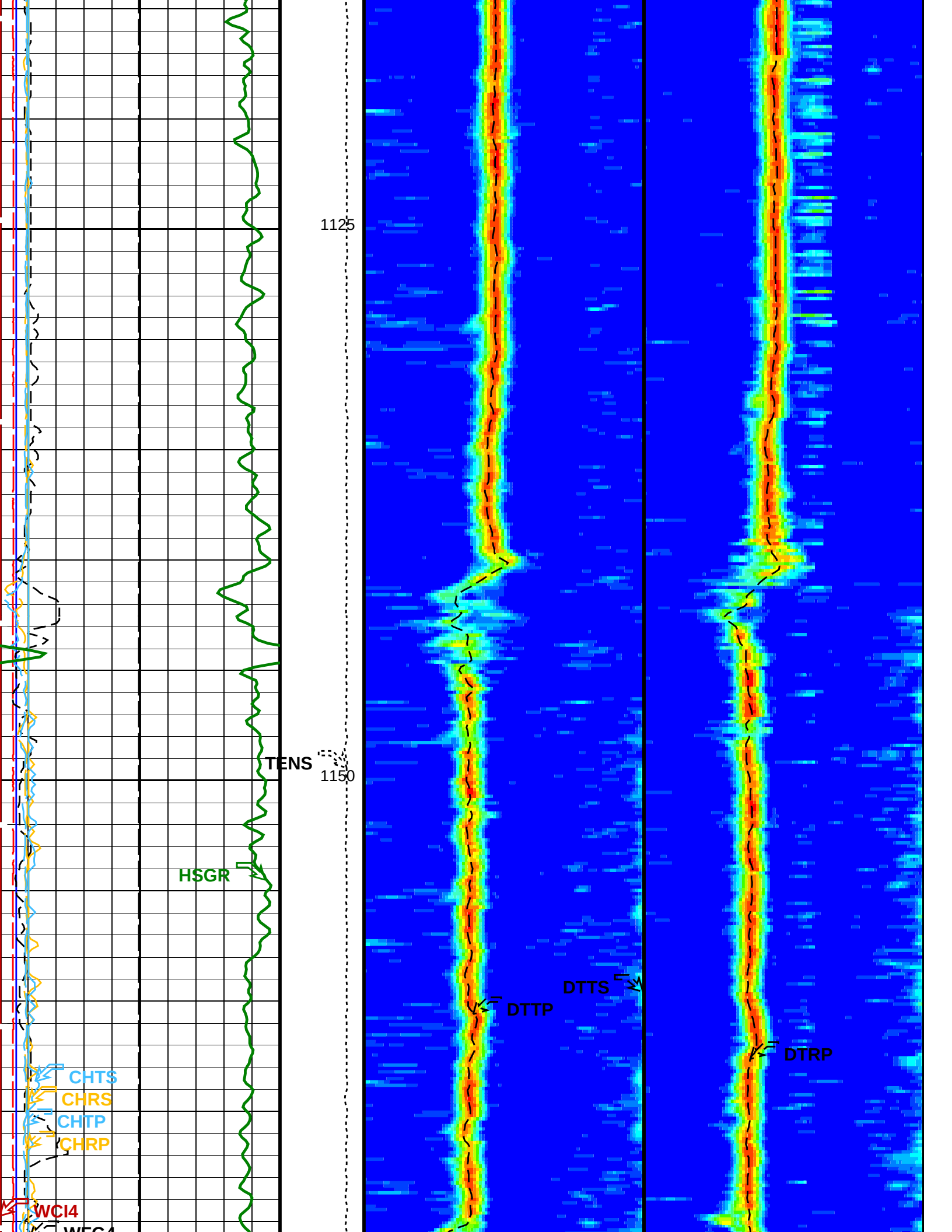

850
875

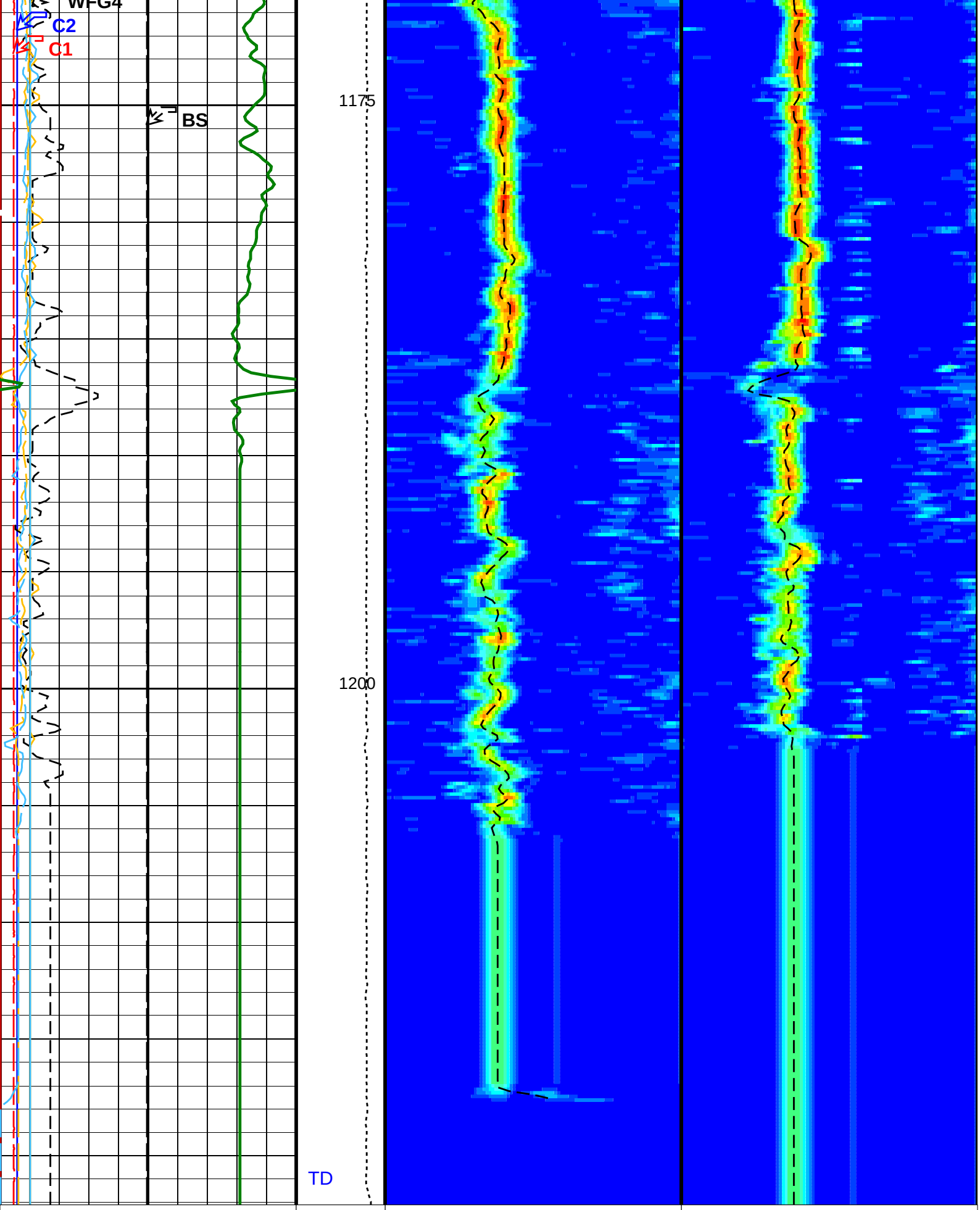

900
925


950
975
1000


1025
1050


1075
1100


1125
TENS
1150
HSGR
DTTS
DTTP
DTRP
CHTS
CHRS
CHTP
CHRP
WCI4



Bit Size (BS) (IN)	Tension (TENS) (LBF)	Delta−T Comp / TA − P & S (DTTP) (US/F)	Delta−T Comp / RA − P & S (DTRP) (US/F)
0 — 20	10000 — 0	40 — 240	40 — 240
Caliper 1 (C1)		Delta−T Shear / TA − P & S (DTTS)	Delta−T Shear / RA − P & S (DTRS)

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

SAM4 Waveform Gain (WFG4)
0 (----) 1000

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (----) 10

Peak Coherence / RA − P & S Comp (CHRP)
0 (----) 10

Peak Coherence / TA − P & S Comp (CHTP)
0 (----) 10

Peak Coherence / RA − P & S Shear (CHRS)
−1 (----) 9

Peak Coherence / TA − P & S Shear (CHTS)
−1 (----) 9

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Delta−T Shear / TA − P & S (DTTS)
40 (US/F) 240

Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

Min Amplitude Max

Tr.Array P&S Slow Proj. CVDL (SPT4)
40 (US/F) 240

Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

Downlog

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	60	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	60	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	202	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	205	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character − Monopole P&S	DYNAMIC	
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	EVEN	
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

SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	239	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	
WFM4	Waveform Mode 4	W1	
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	−0.00245644	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.97505	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.981164	
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	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
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_037LUP	PRODUCER	22−Jan−2018 16:14	1222.1 M	528.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_053PUP	FN:76	PRODUCER	22−Jan−2018 19:17

Company: International Ocean Discovery Program Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_037LUP	PRODUCER	22−Jan−2018 16:14	1222.1 M	528.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_053PUP	FN:76	PRODUCER	22−Jan−2018 19:17	1222.1 M	528.1 M

OP System Version: 19C0−187

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

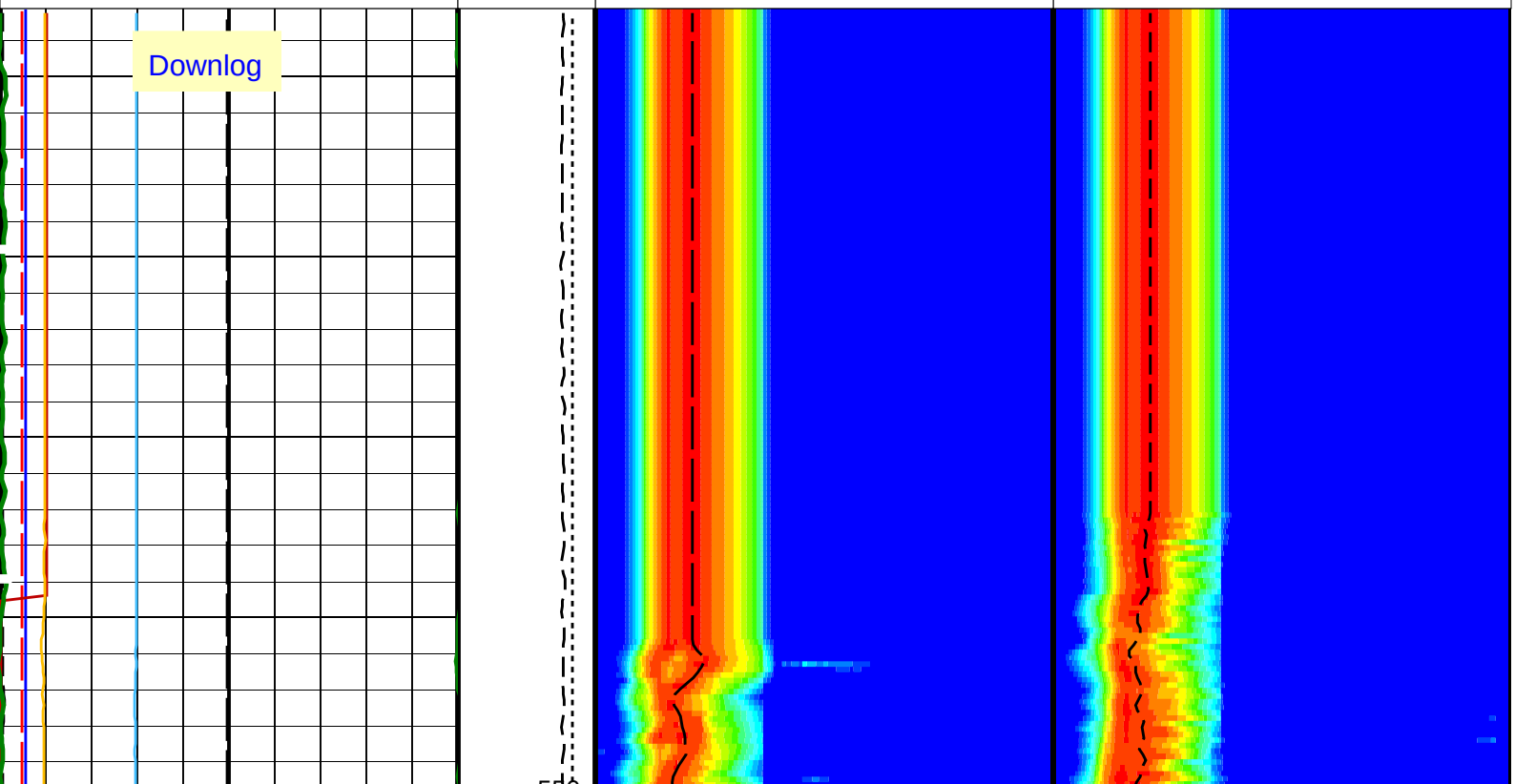
PIP SUMMARY

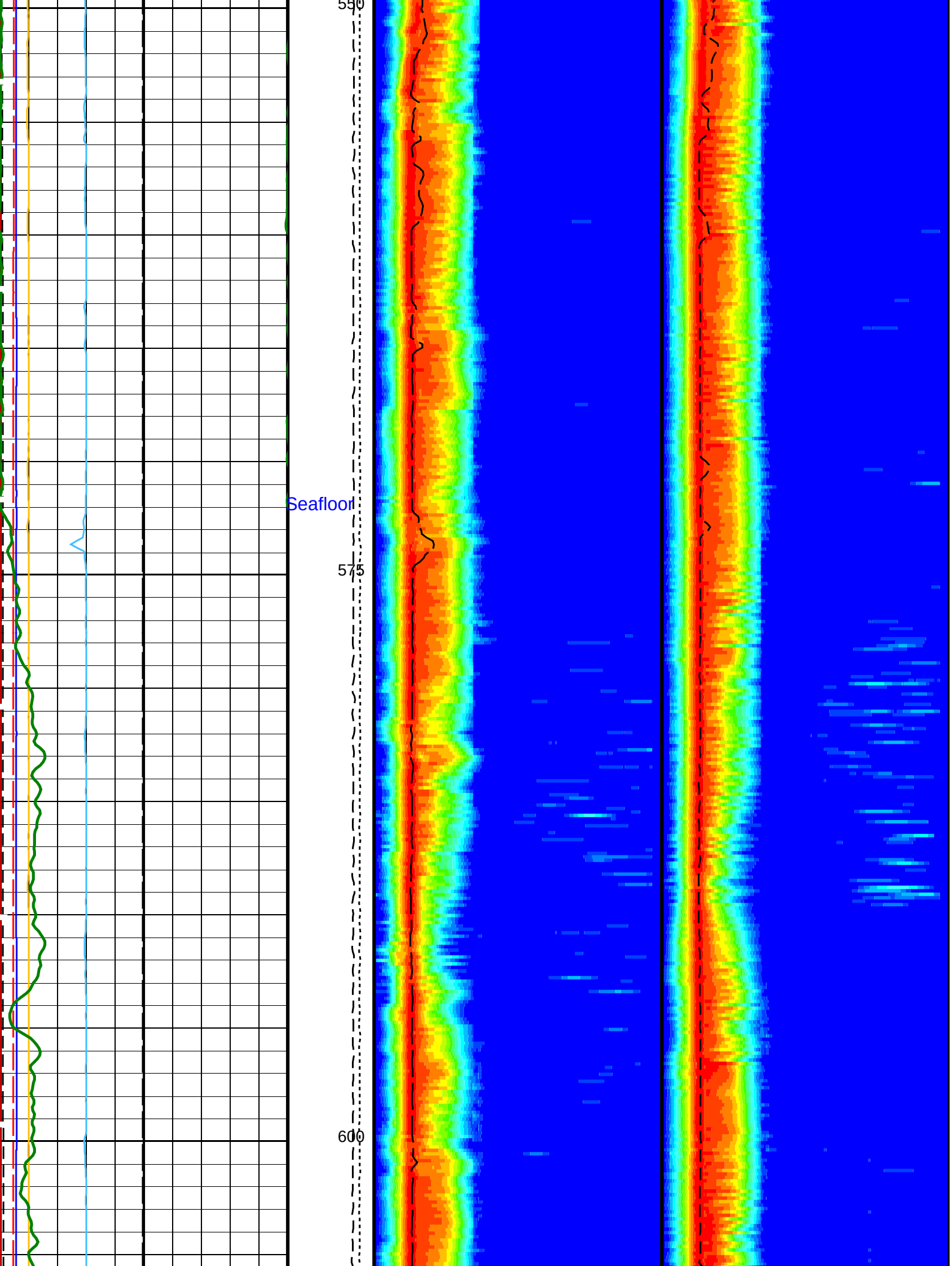
Time Mark Every 60 S

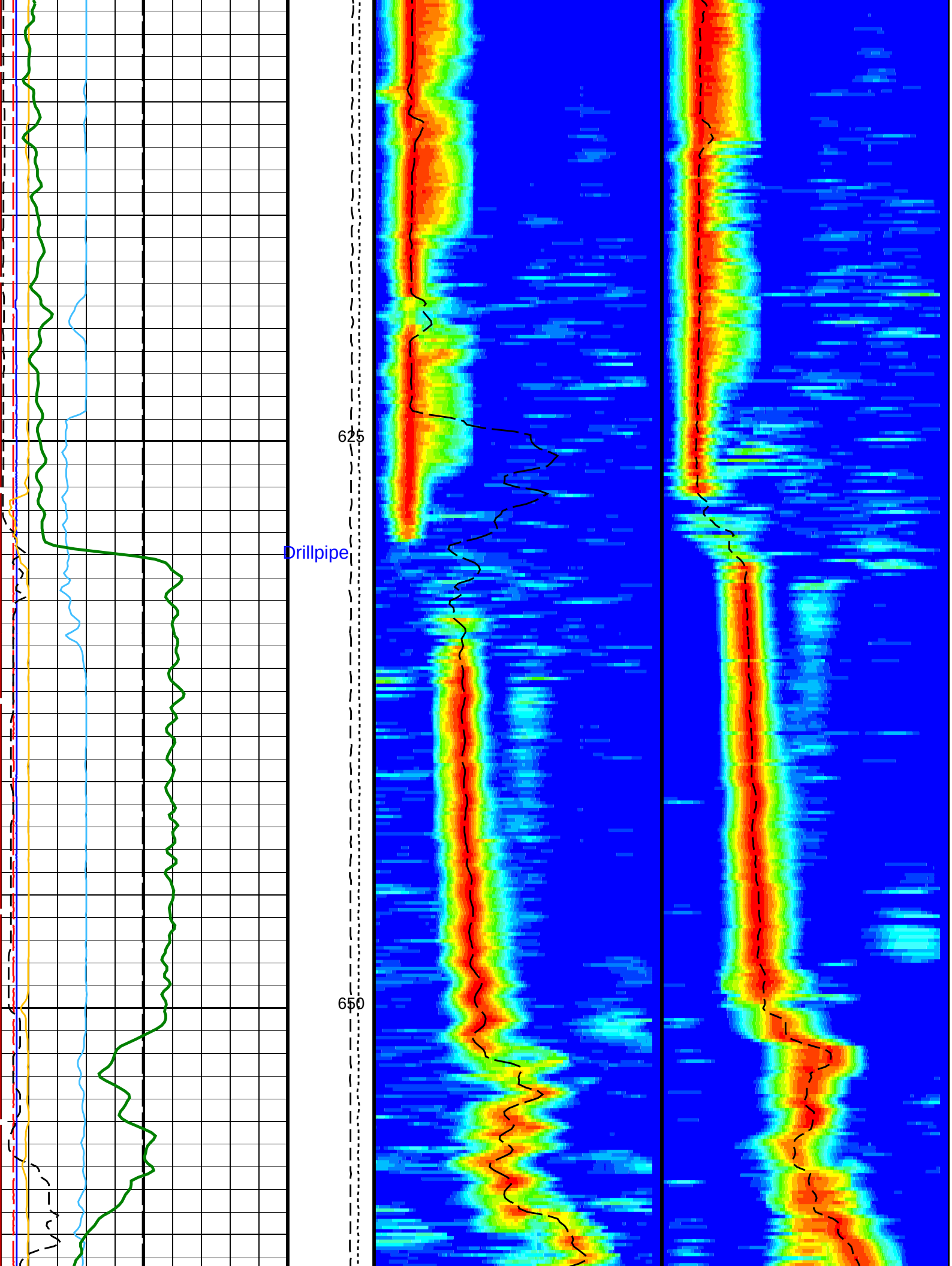
Curve	Min	Units	Max
HNGS Spectroscopy Gamma Ray (HSGR)	0	(GAPI)	100
Peak Coherence / TA − Lower Dipole (CHT1)	−2	(−−−−)	8
Peak Coherence / RA − Lower Dipole (CHR1)	0	(−−−−)	10
Waveform Data Copy Indicator 1 − Lower Dipole (WCI1)	0	(−−−−)	10
SAM1 Waveform Gain (WFG1)	0	(−−−−)	1000
Caliper 2 (C2)	0	(IN)	20
Caliper 1 (C1)	0	(IN)	20
Bit Size (BS)	0	(IN)	20

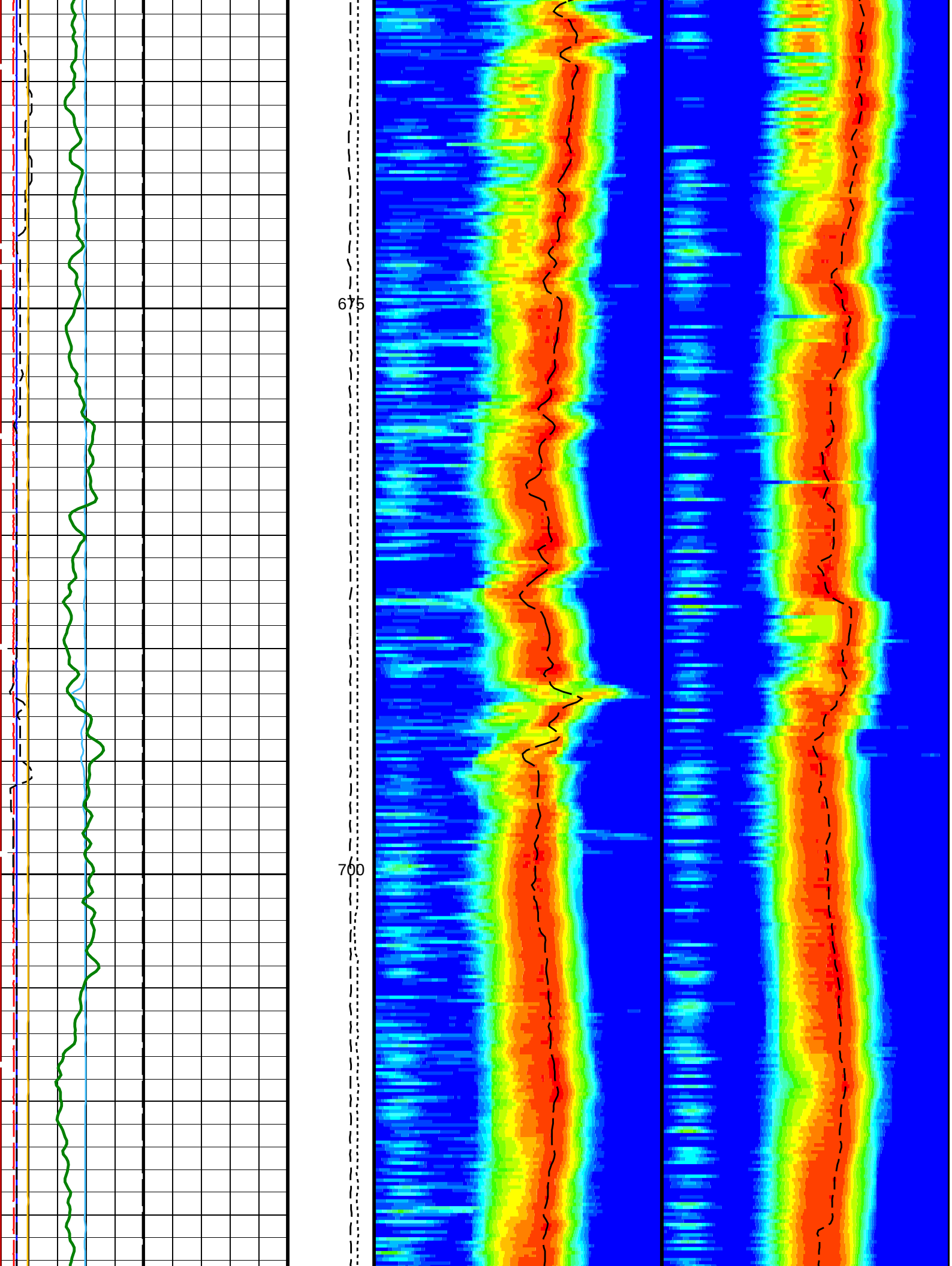
Curve	Min	Units	Max
Calibrated Downhole Force (CDF) (LBF)	5000		0
Tension (TENS) (LBF)	10000		0
Tr.Array L.Dipole Slow Proj. CVDL (SPT1)	40	(US/F)	1600
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)	40	(US/F)	1600
Delta−T Shear / TA − Lower Dipole (DT1T)	40	(US/F)	1600
Delta−T Shear / RA − Lower Dipole (DT1R)	40	(US/F)	1600

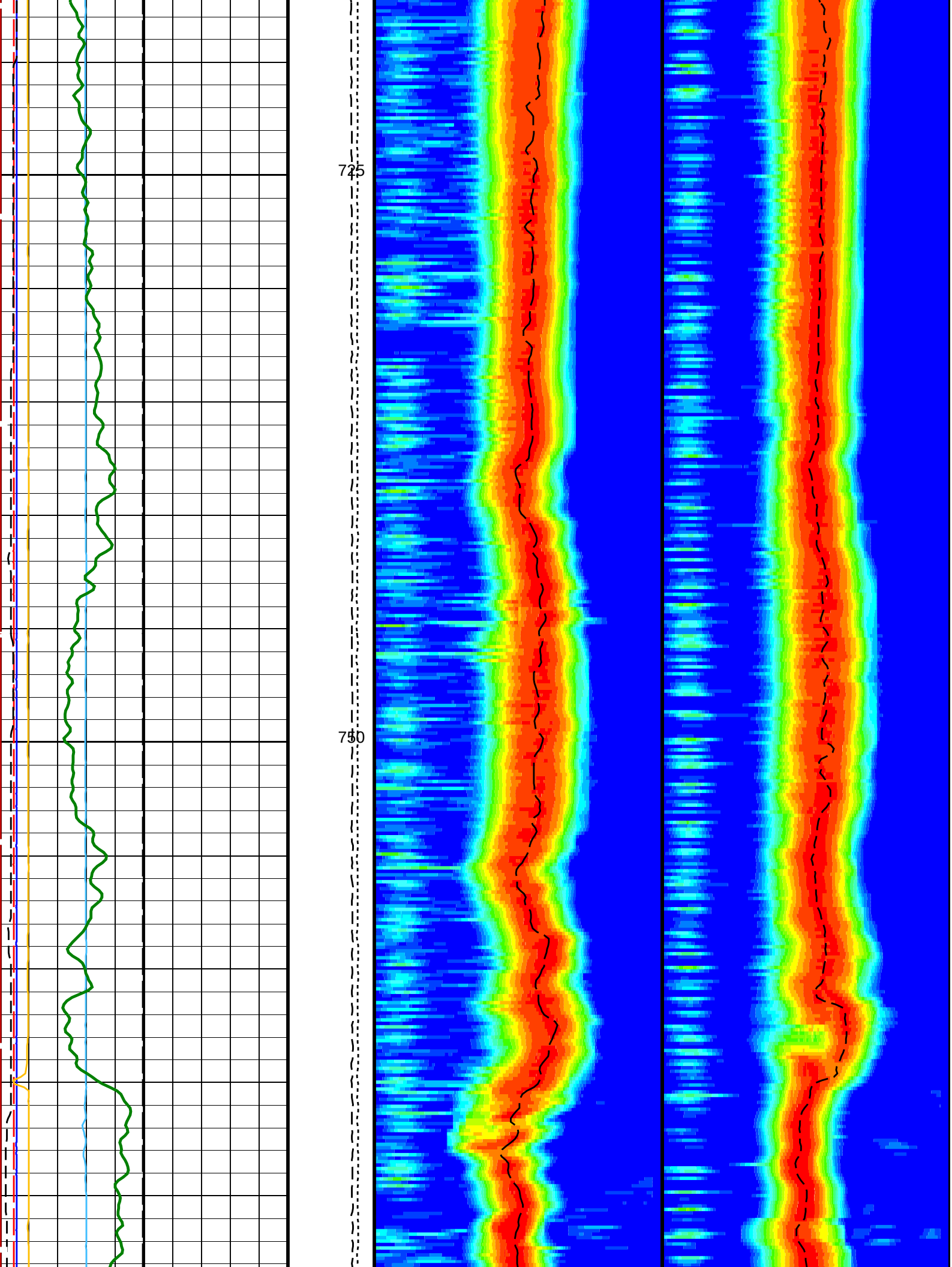
Amplitude: Min → Max

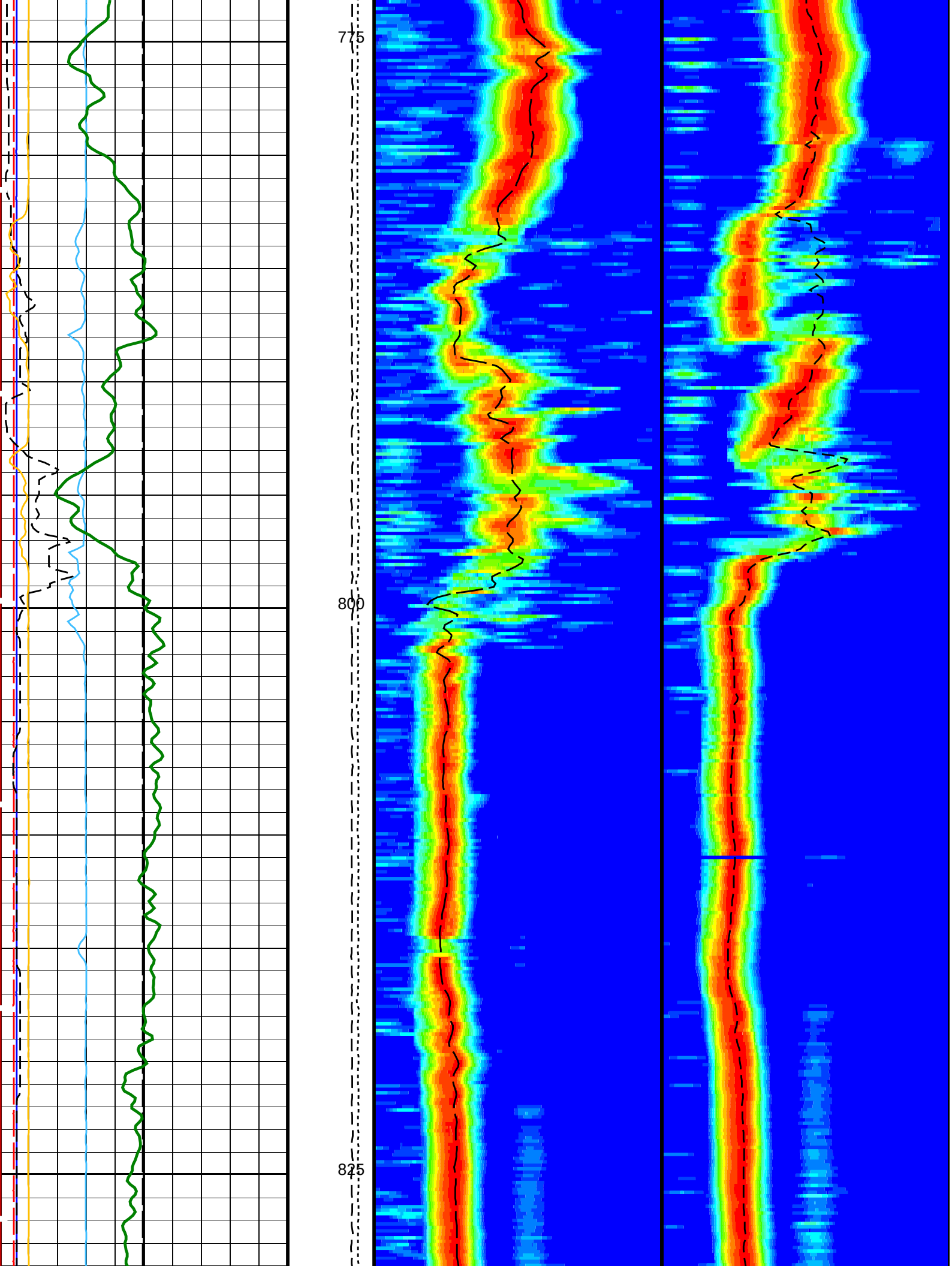


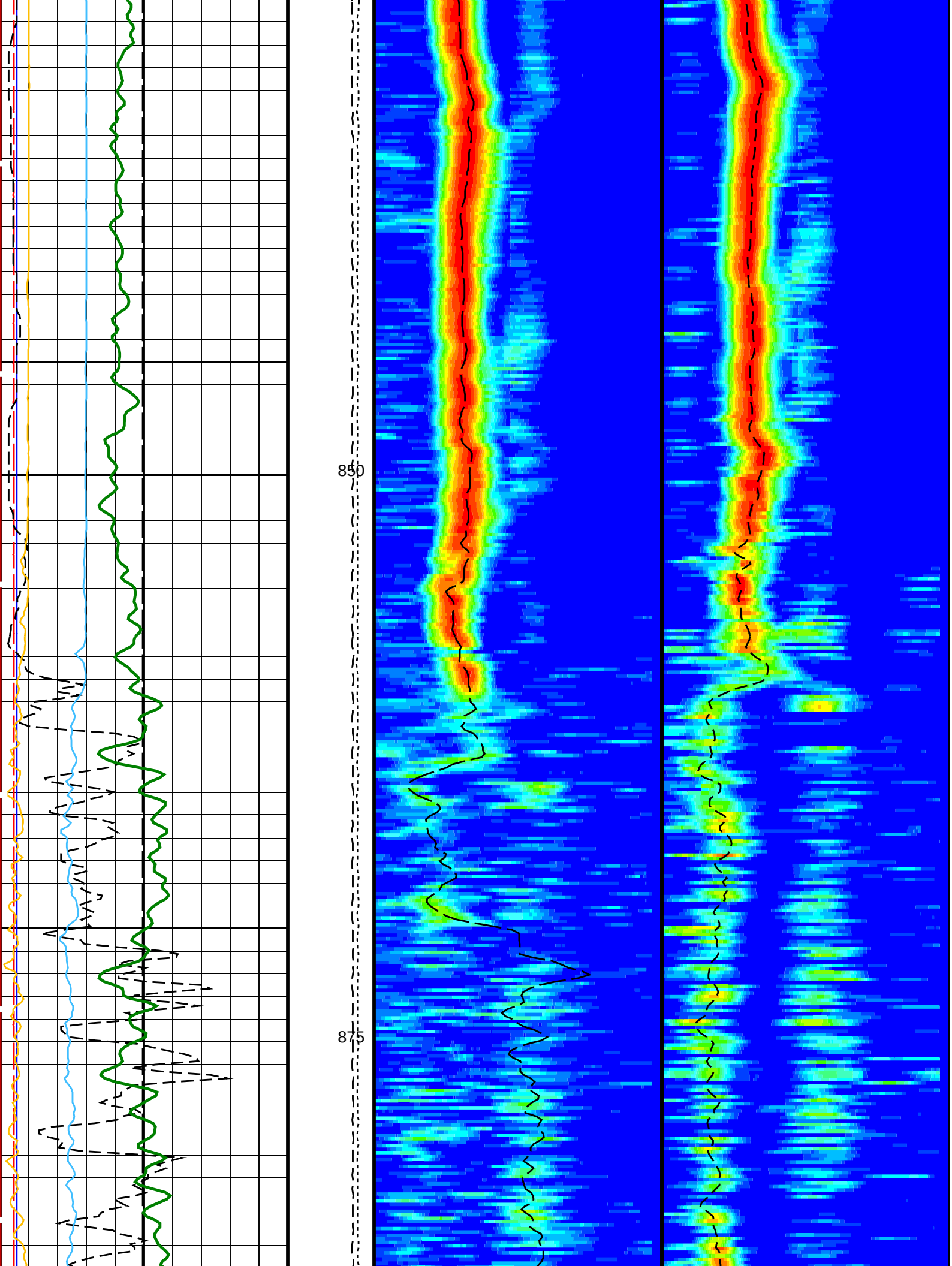

550
Seafloor
575
600

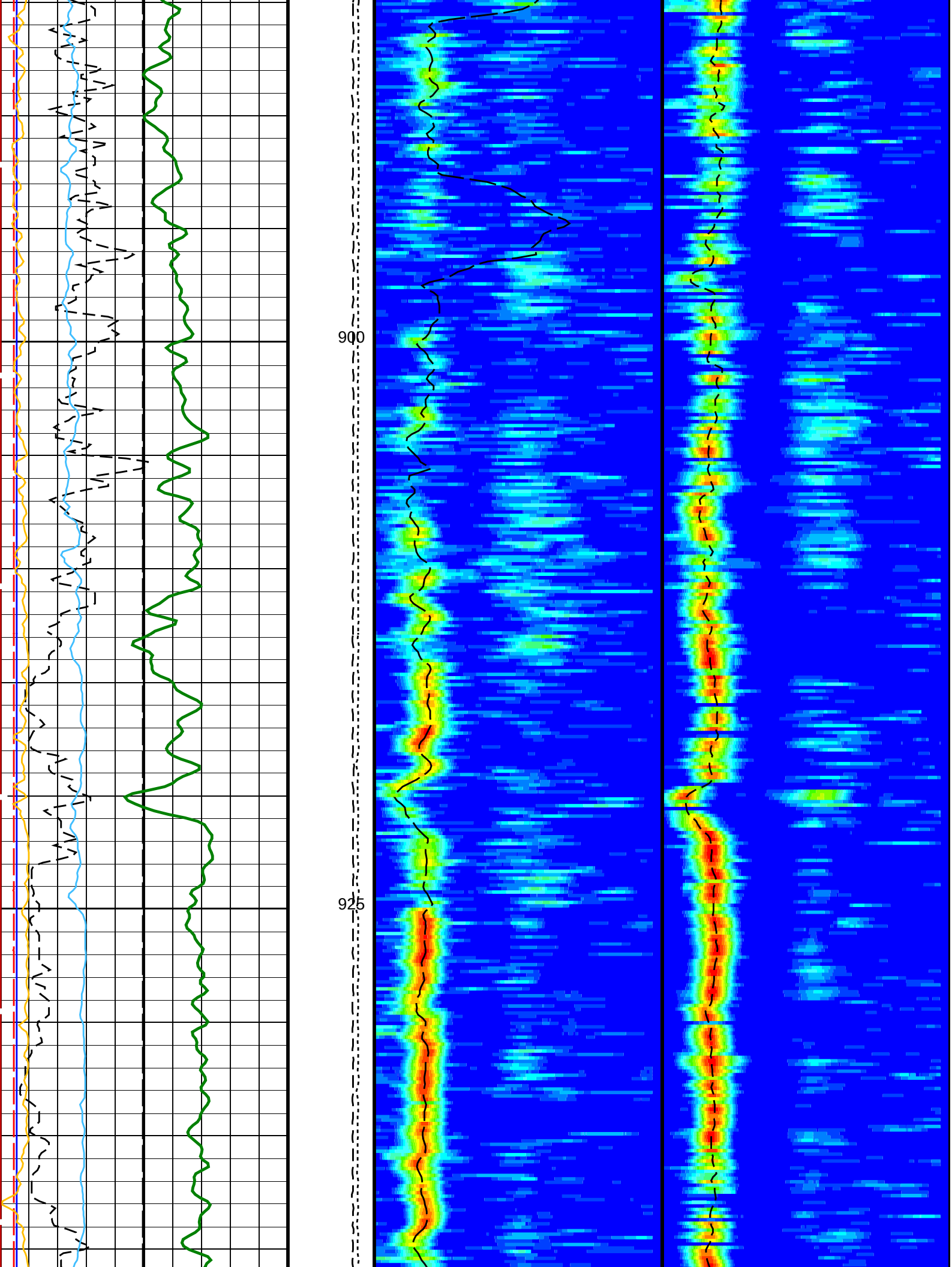

625
Drillpipe
650

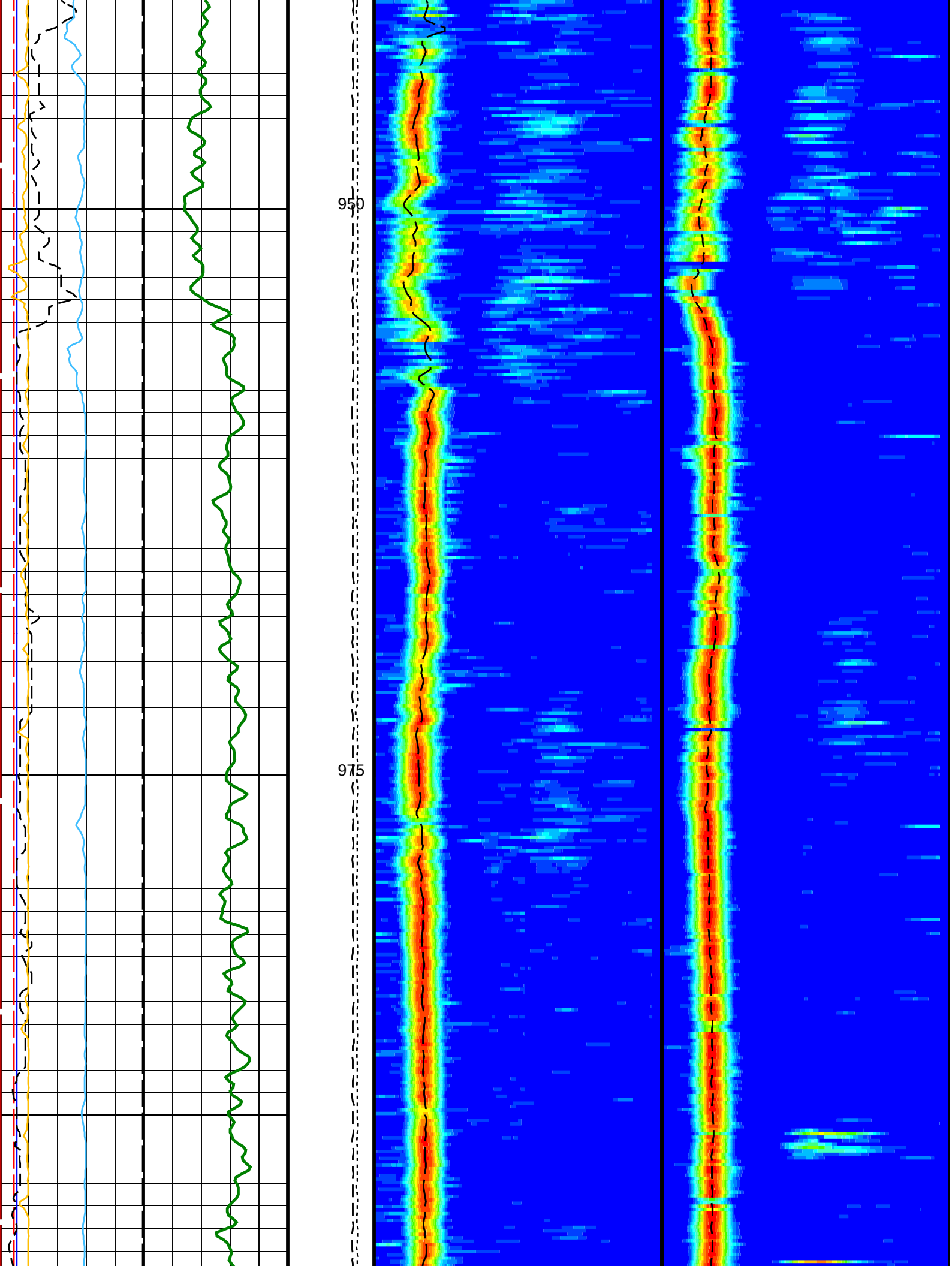

675
700

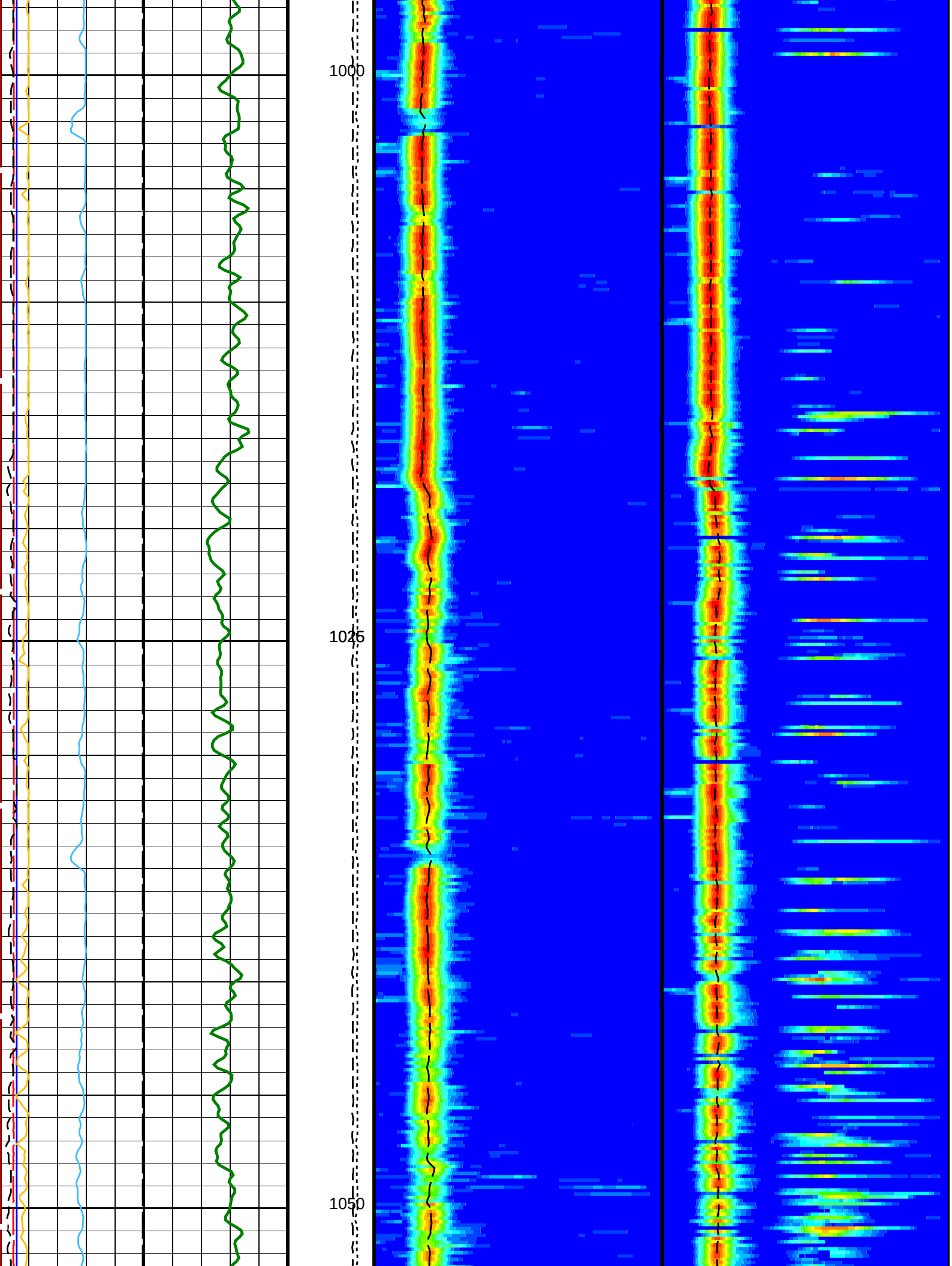

725
750


775
800
825


850
875


900
925


950
975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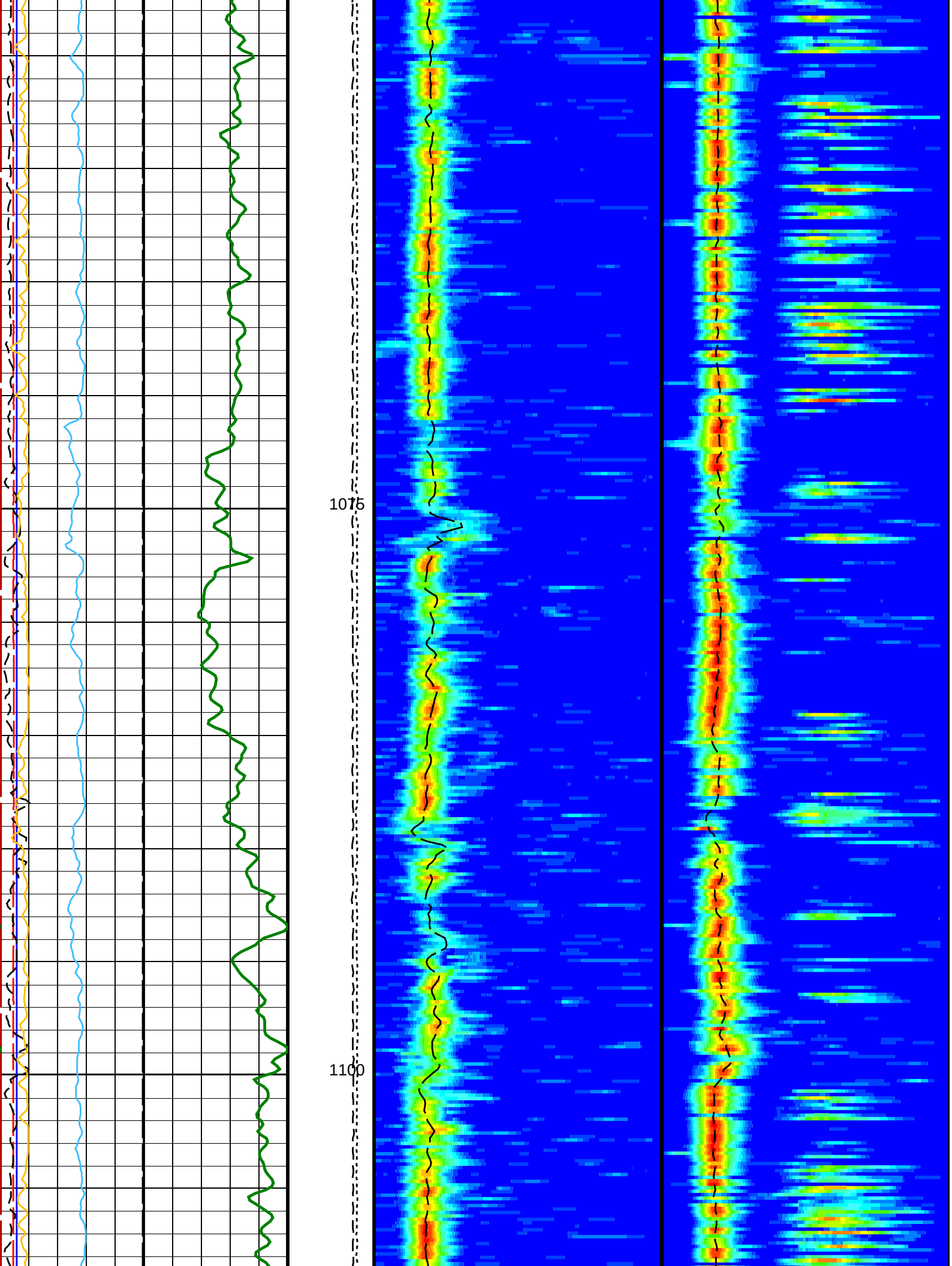
1050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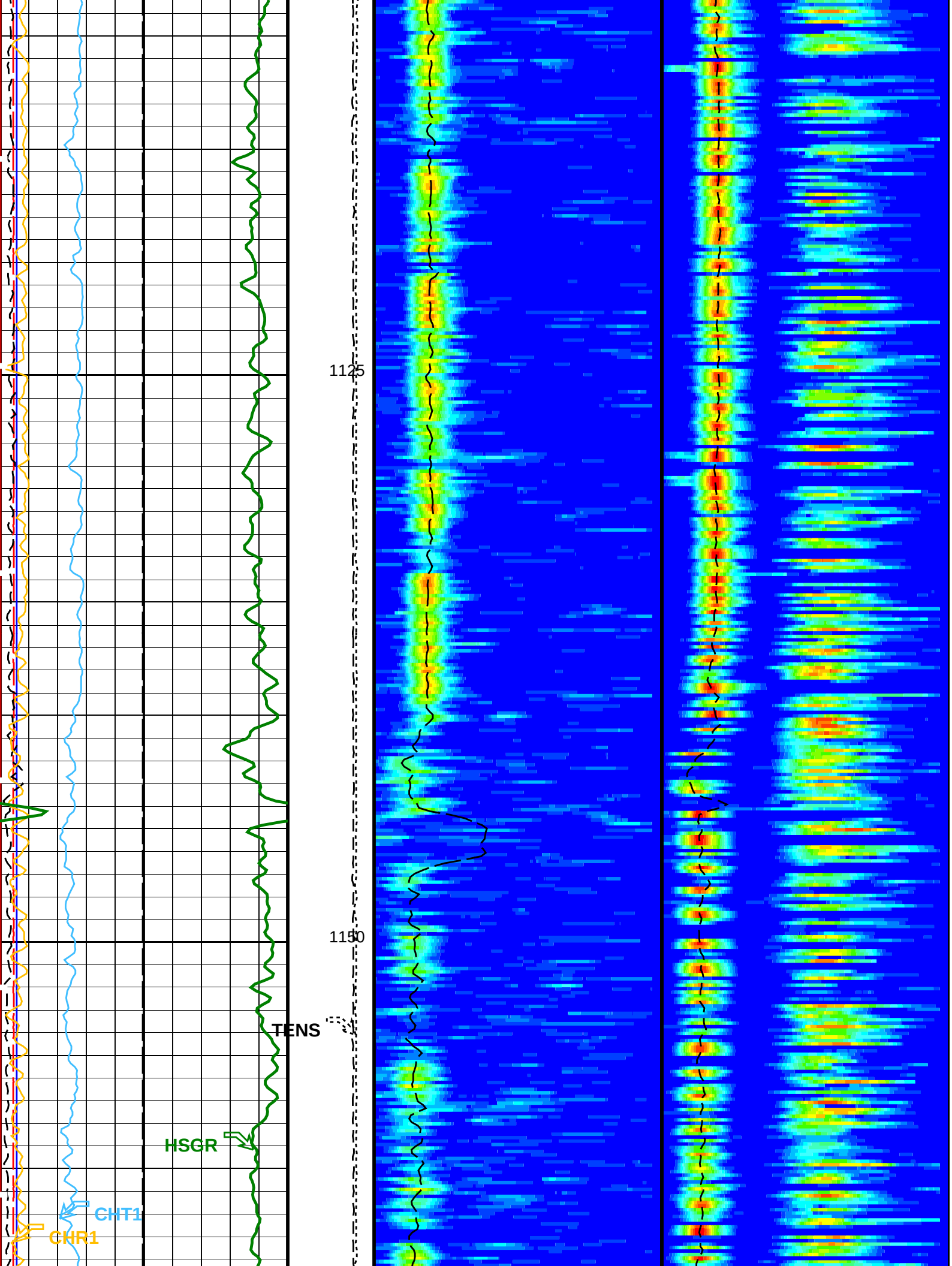
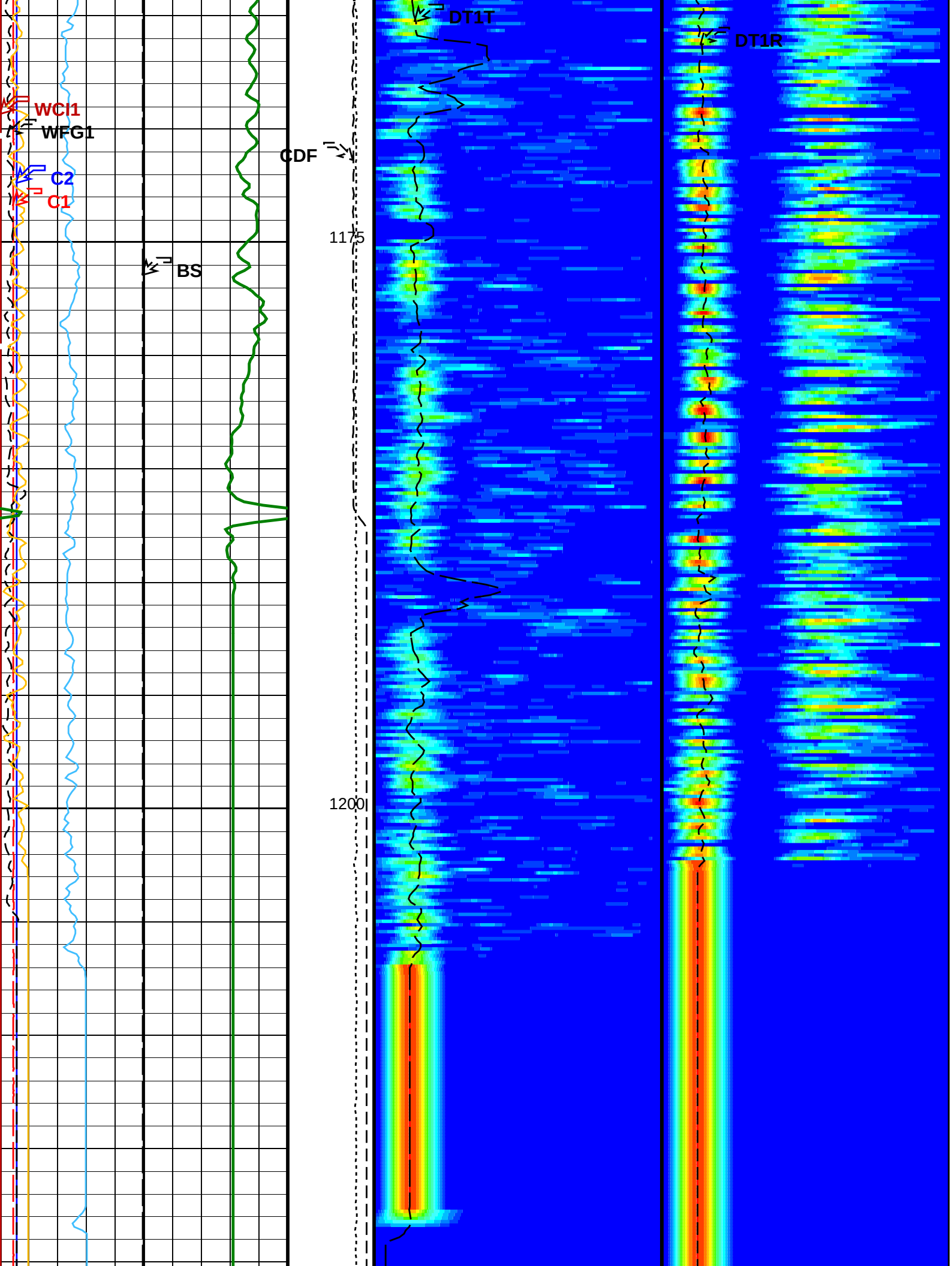

1125
1150
TENS
HSGR
CHT1
CHR1


WCI1
WFG1
C2
C1
BS
CDF
1175
1200
DT1T
DT1R

Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Shear / TA − Lower Dipole (DT1T) 40 (US/F) 1600	Delta−T Shear / RA − Lower Dipole (DT1R) 40 (US/F) 1600
Caliper 1 (C1) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 5000 0	Min Amplitude Max Tr.Array L.Dipole Slow Proj. CVDL (SPT1) 40 (US/F) 1600	Min Amplitude Max Rec.Array L.Dipole Slow Proj. CVDL (SPR1) 40 (US/F) 1600
Caliper 2 (C2) 0 (IN) 20			
SAM1 Waveform Gain (WFG1) 0 (−−−−) 1000			
Waveform Data Copy Indicator 1 − Lower Dipole (WCI1) 0 (−−−−) 10			
Peak Coherence / RA − Lower Dipole (CHR1) 0 (−−−−) 10			
Peak Coherence / TA − Lower Dipole (CHT1) −2 (−−−−) 8			
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100			

Downlog

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST−B: Dipole Shear Imager − B			
BHS	Borehole Status	OPEN	
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	1600	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	
GCSE	Generalized Caliper Selection	BS	
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

SST1	STC Slowness Step − Lower Dipole	4	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit − Lower Dipole	1600	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	
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	−0.00245644	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.97505	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.981164	
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	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_LOWER_DIPOLE_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
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_037LUP	PRODUCER	22−Jan−2018 16:14	1222.1 M	528.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_053PUP	FN:76	PRODUCER	22−Jan−2018 19:17

Company: International Ocean Discovery Program Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_037LUP	PRODUCER	22−Jan−2018 16:14	1222.1 M	528.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_053PUP	FN:76	PRODUCER	22−Jan−2018 19:17	1222.1 M	528.1 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)	0 (GAPI) 100	
Peak Coherence / TA − Upper Dipole (CHT2)	−2 (−−−−) 8	
Peak Coherence / RA − Upper Dipole (CHR2)	0 (−−−−) 10	
Waveform Data Copy Indicator 2 − Upper Dipole (WCI2)	0 (−−−−) 10	
SAM2 Waveform Gain (WFG2)	0 (−−−−) 1000	
Caliper 2 (C2)	0 (IN) 20	Downlog
Caliper 1 (C1)	0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 5000 0
Bit Size (BS)	0 (IN) 20	Tension (TENS) (LBF) 10000 0

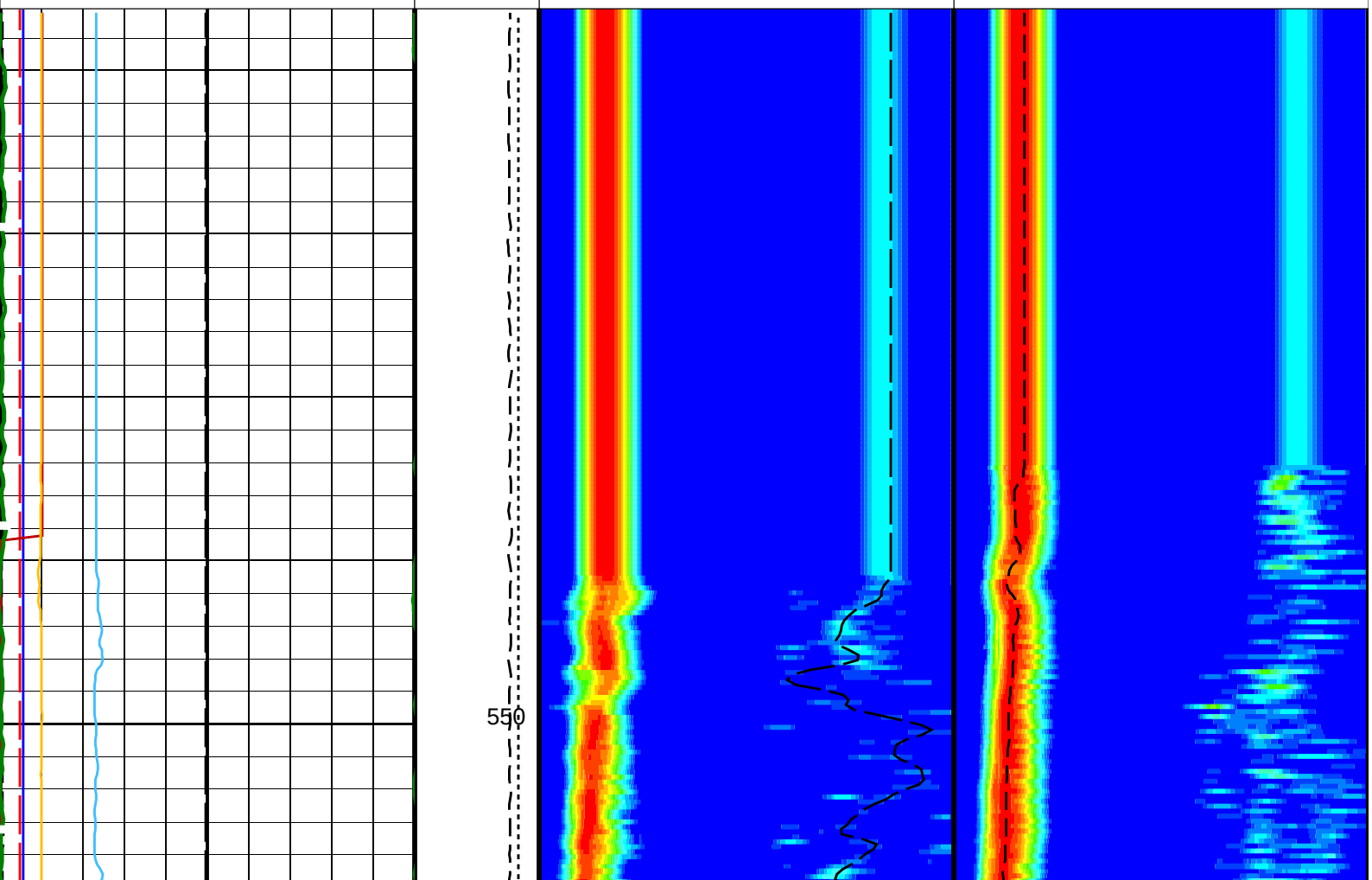
Min Amplitude Max

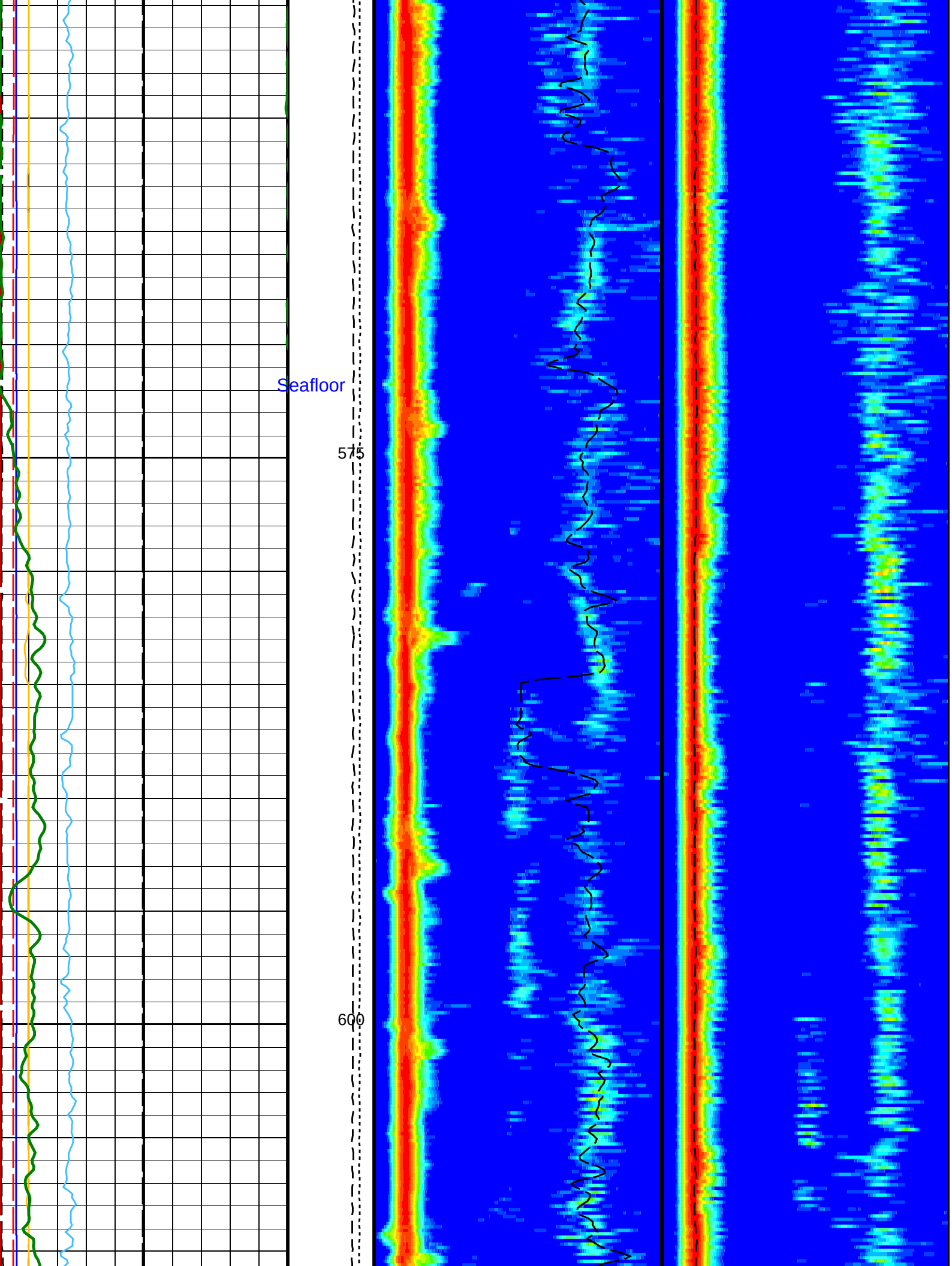
Tr.Array U.Dipole Slow Proj. CVDL (SPT2) (US/F) 40 1600

Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F) 40 1600

Delta−T Shear / TA − Upper Dipole (DT2T) (US/F) 40 1600

Delta−T Shear / RA − Upper Dipole (DT2R) (US/F) 40 1600

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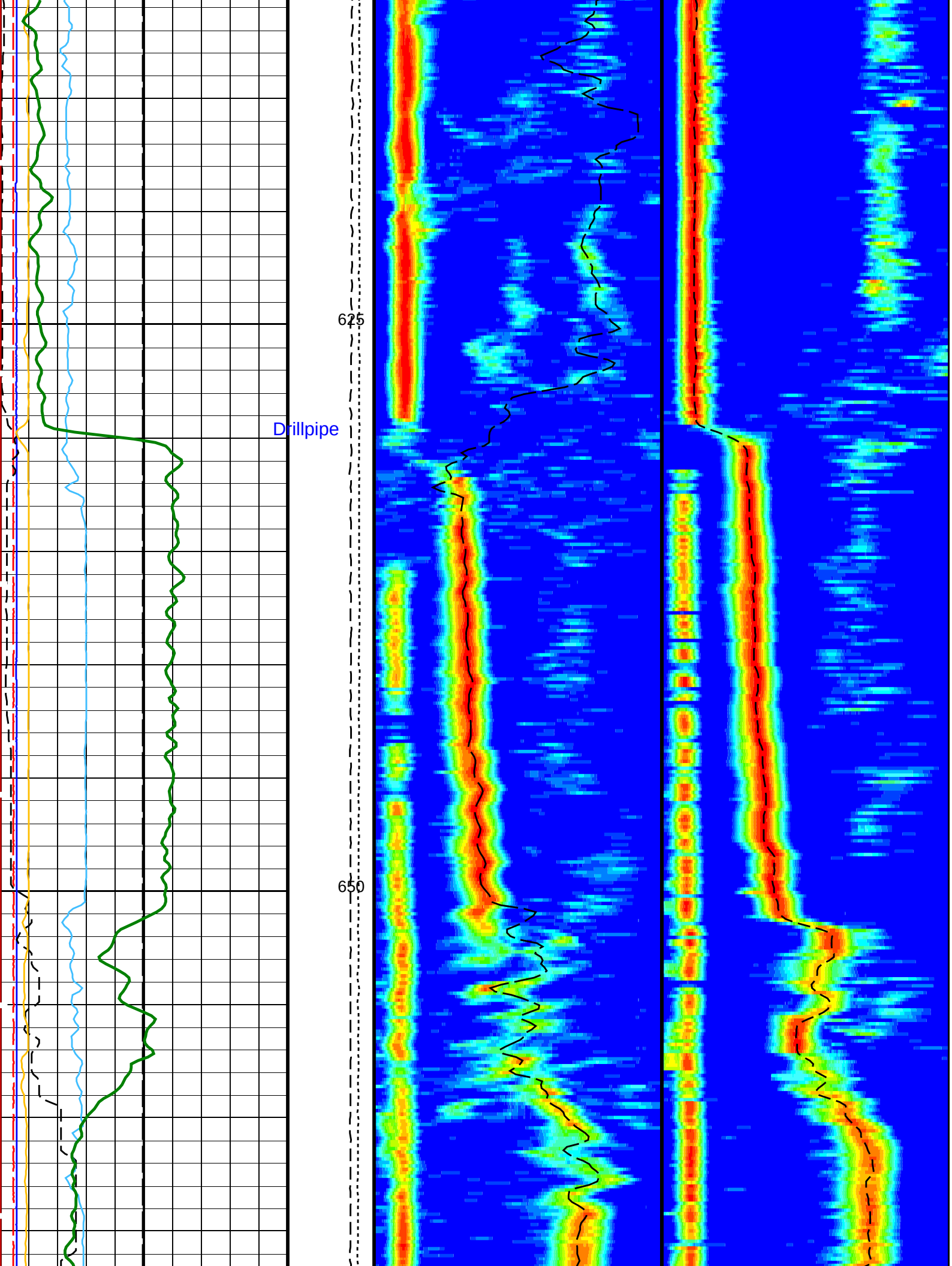
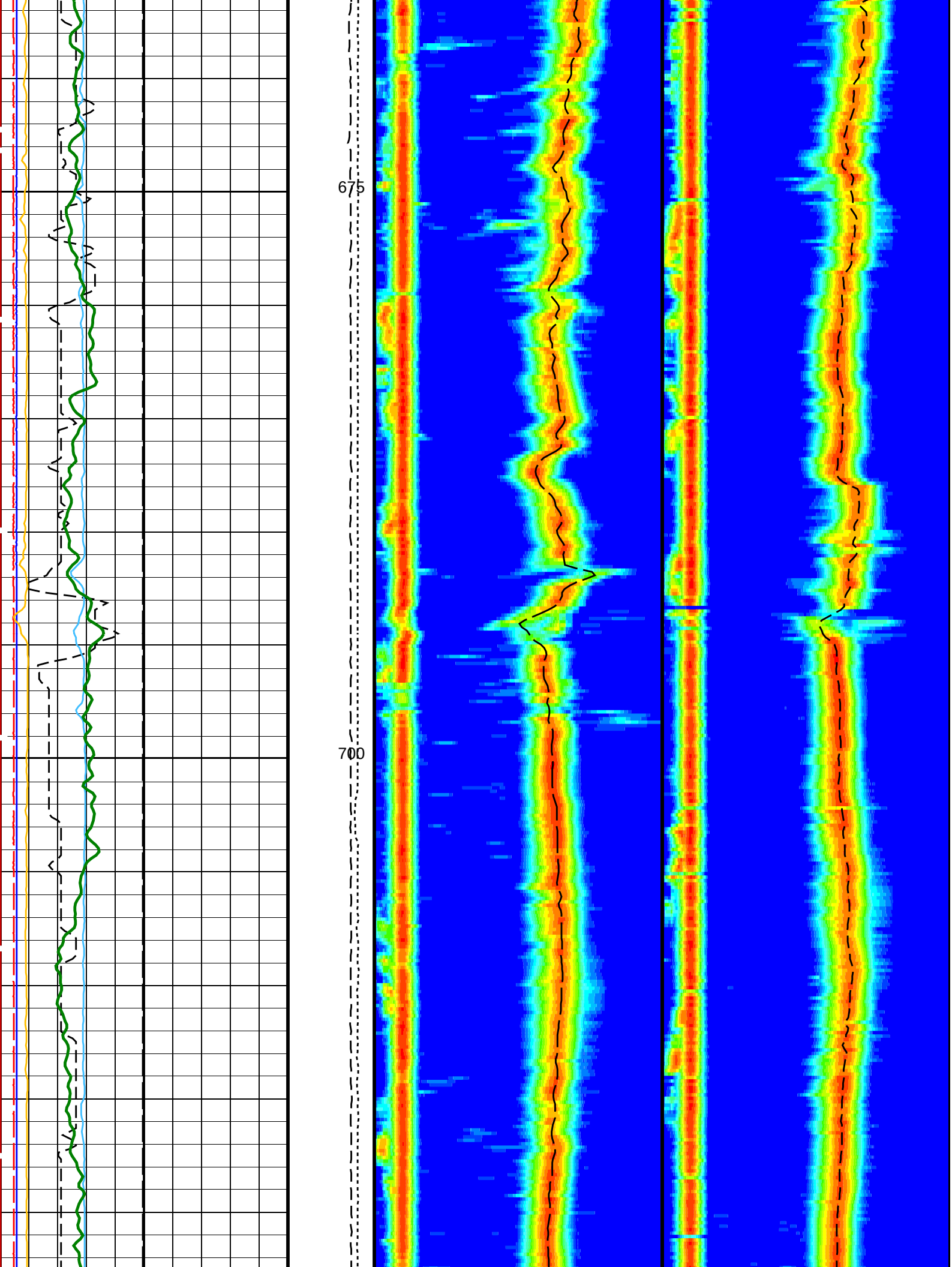
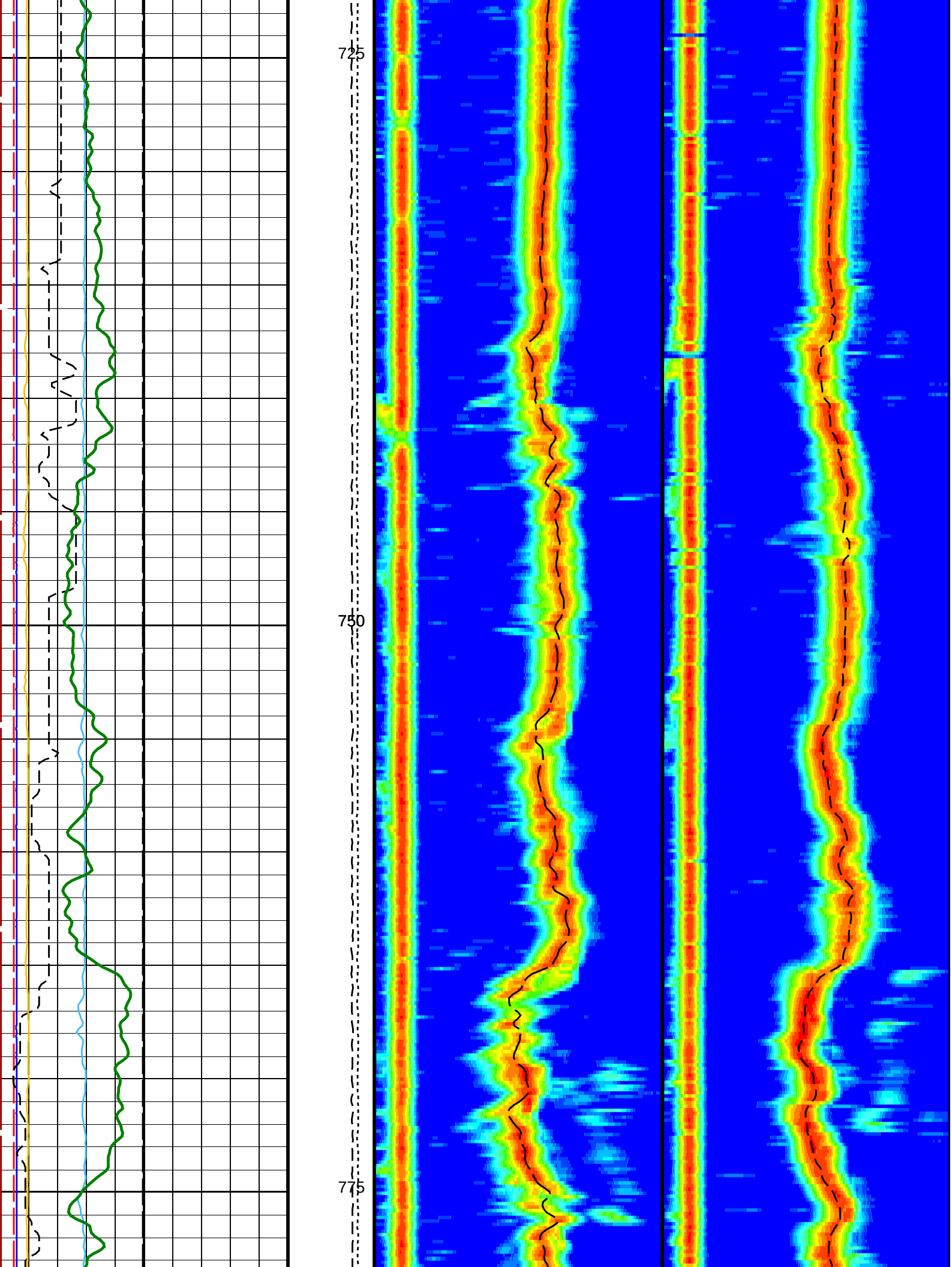
575
600


625
Drillpipe
650


675
700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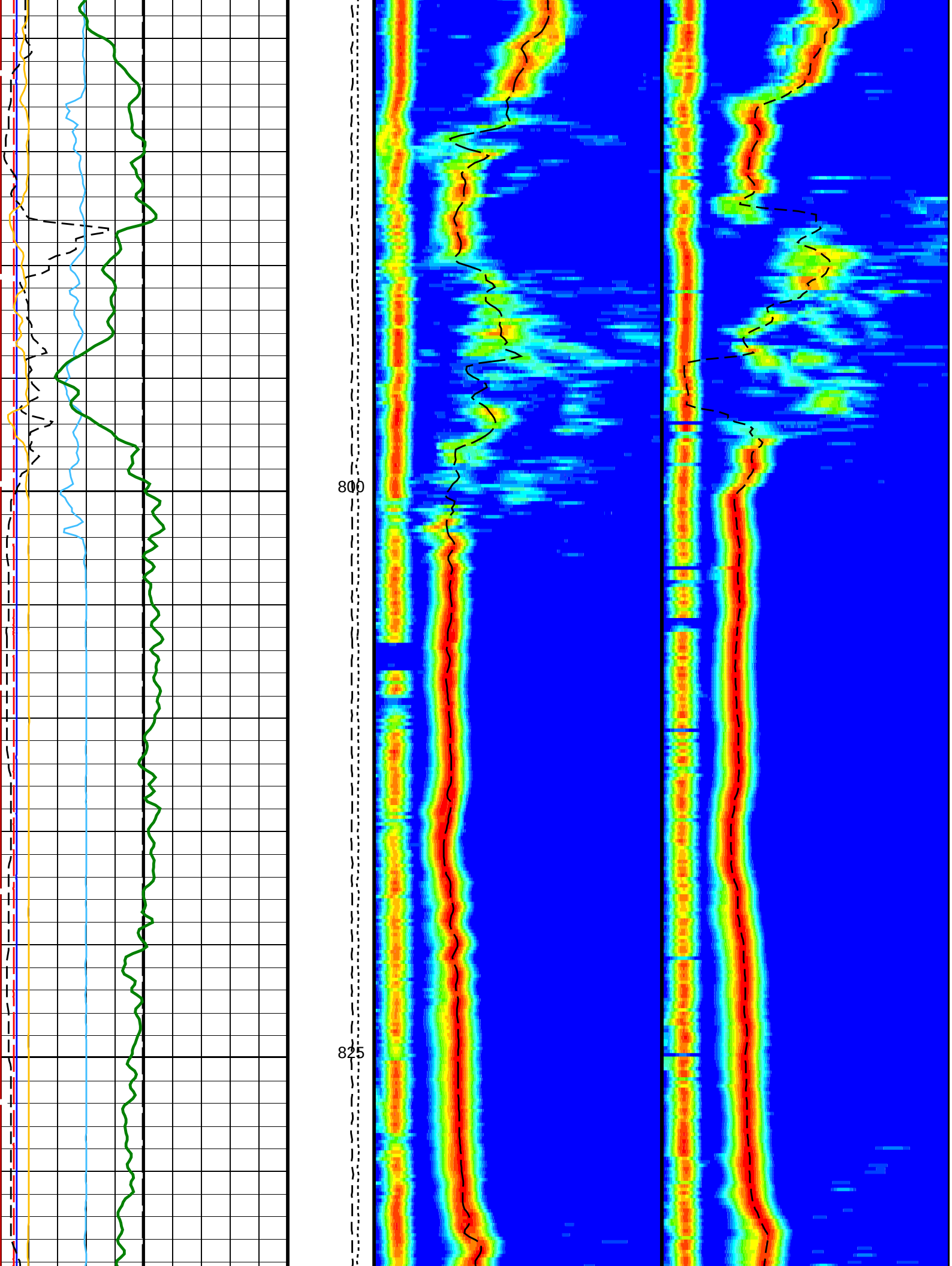
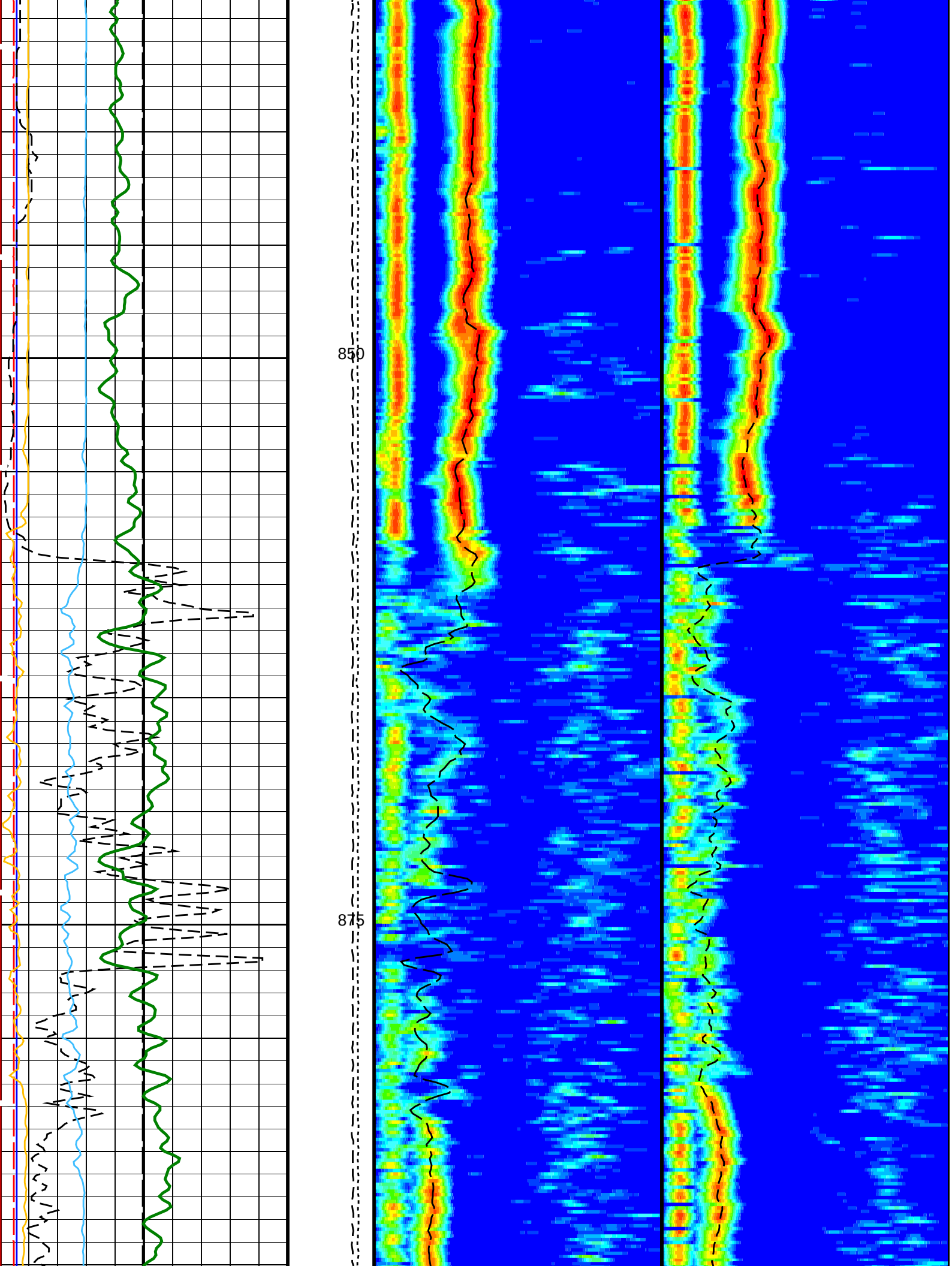
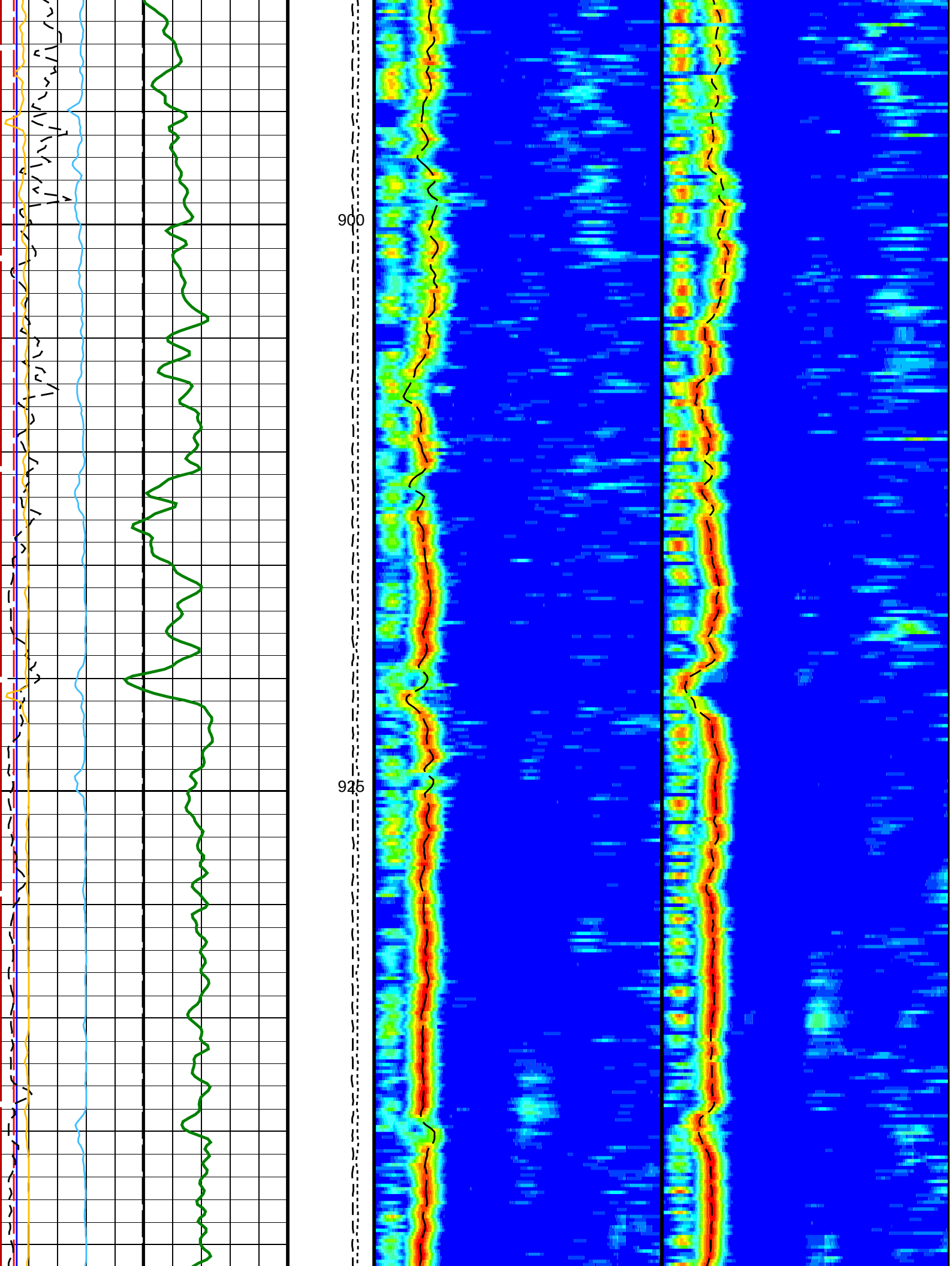
750
775


800
825


850
875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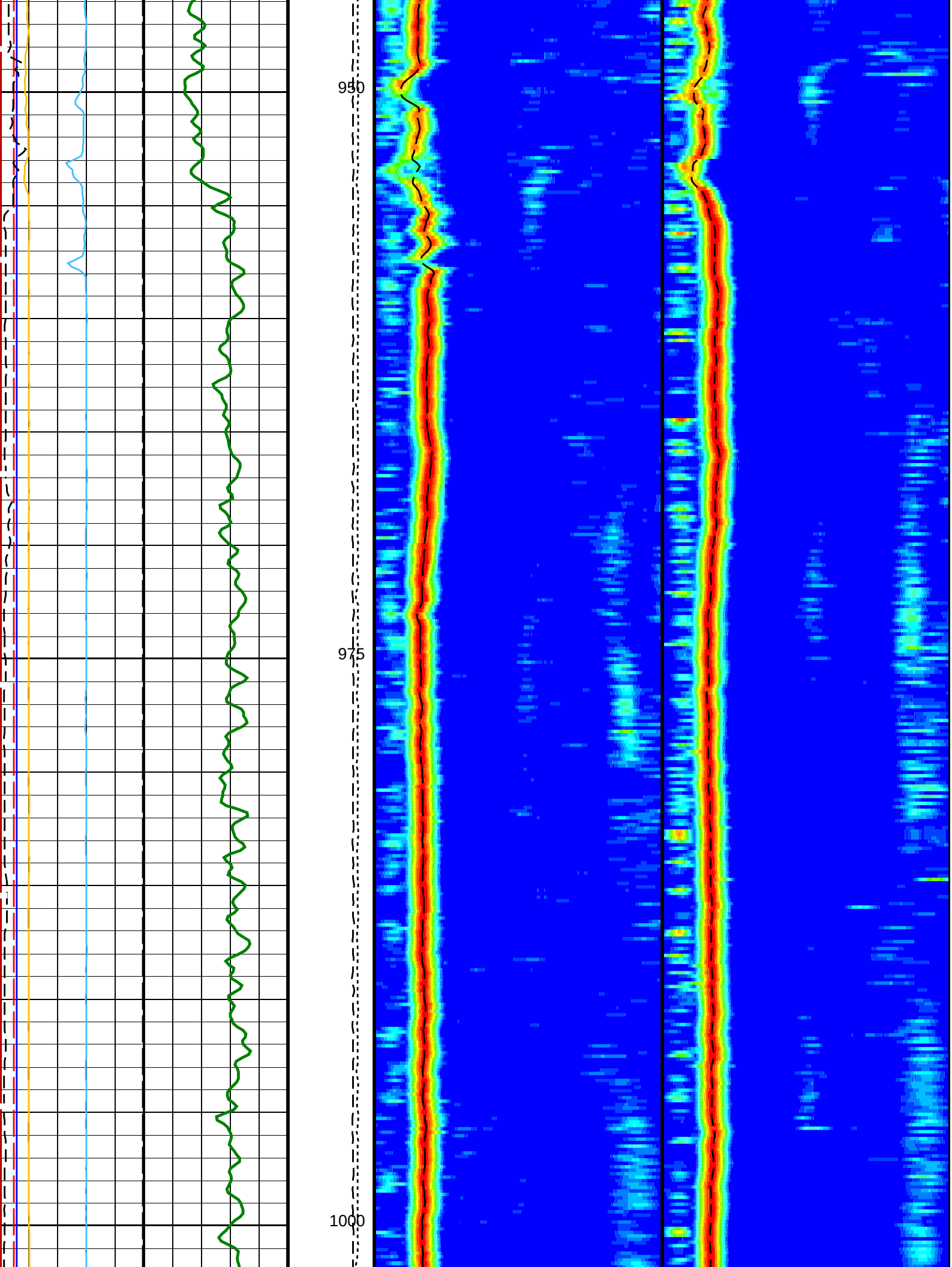
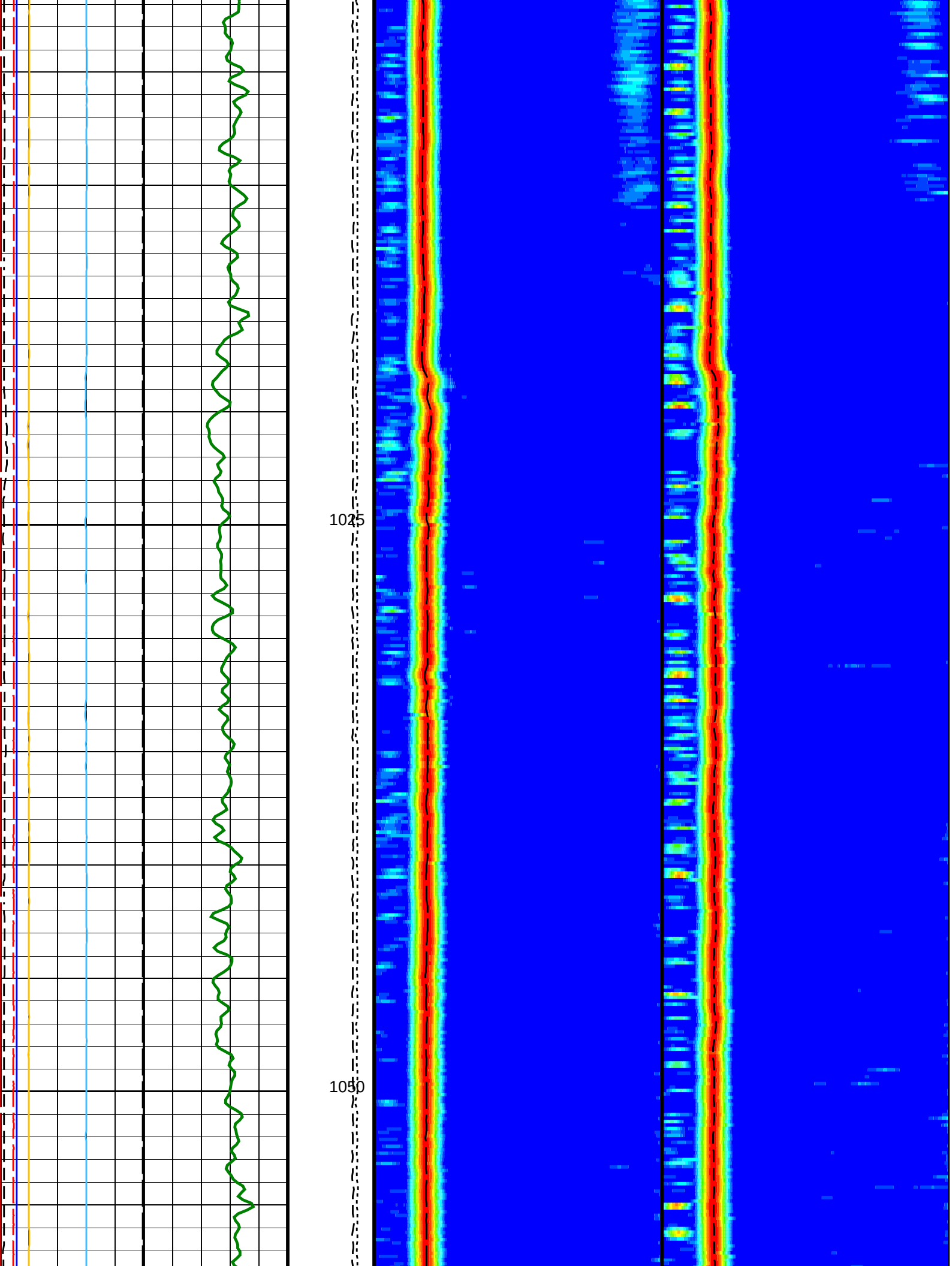
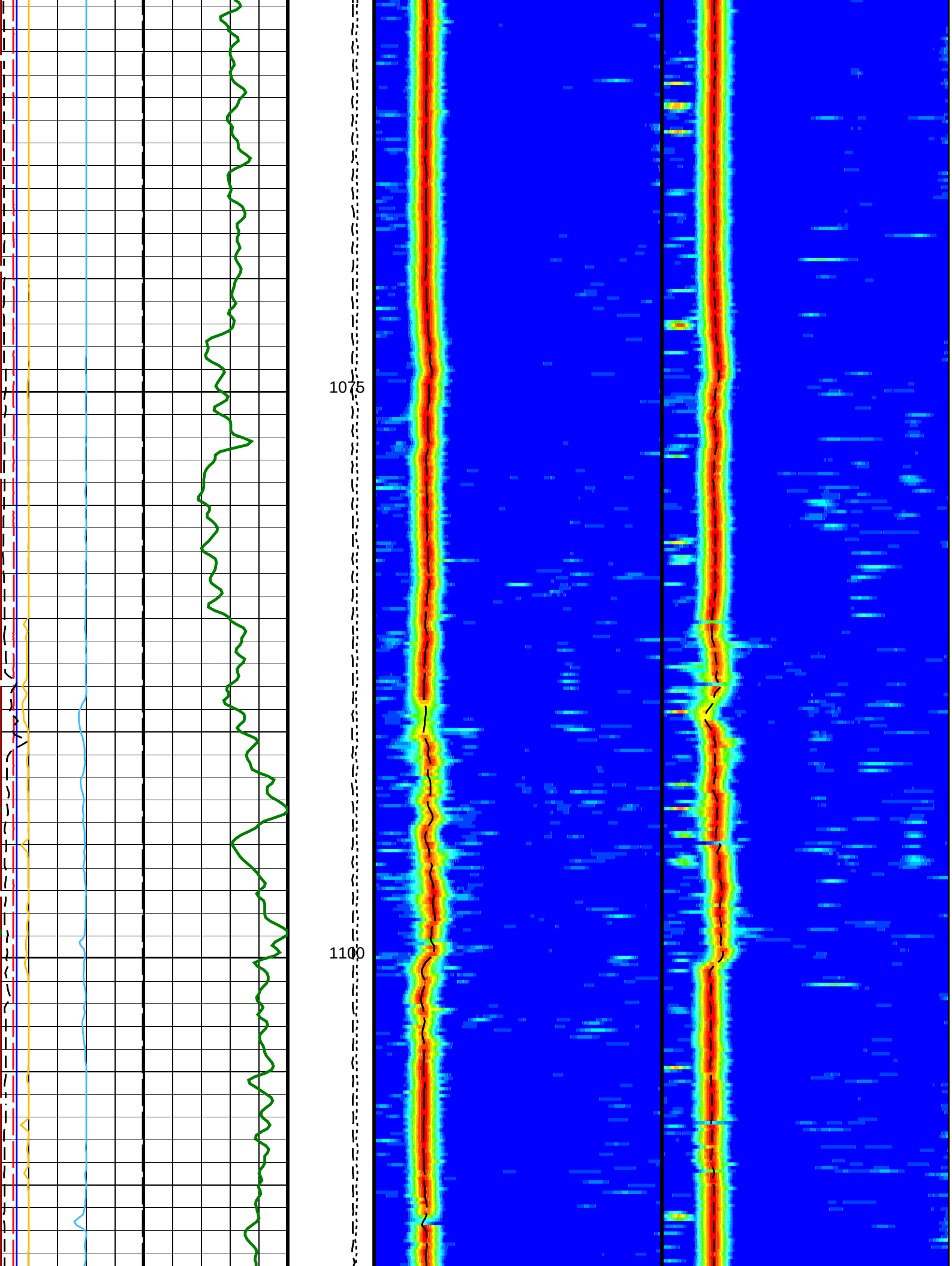
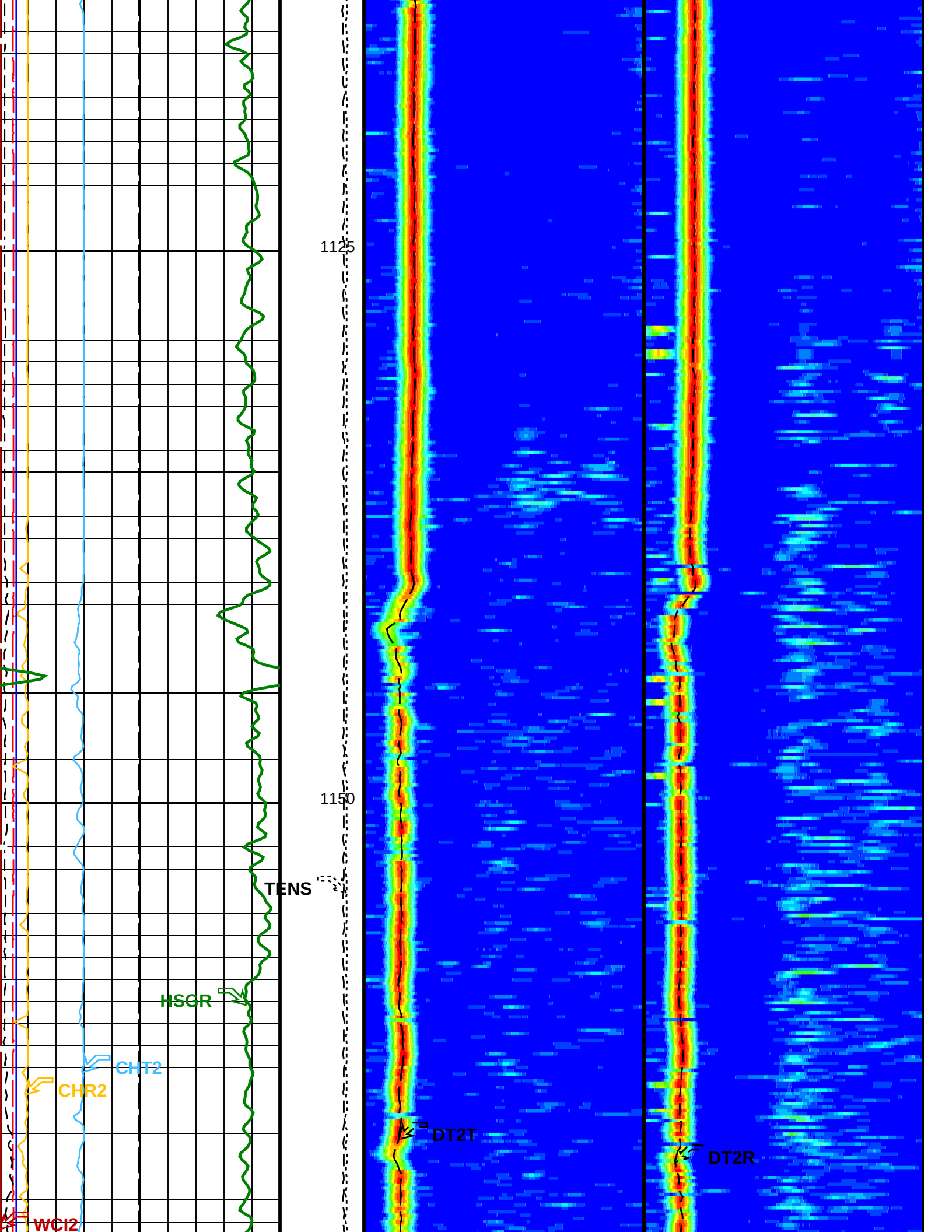
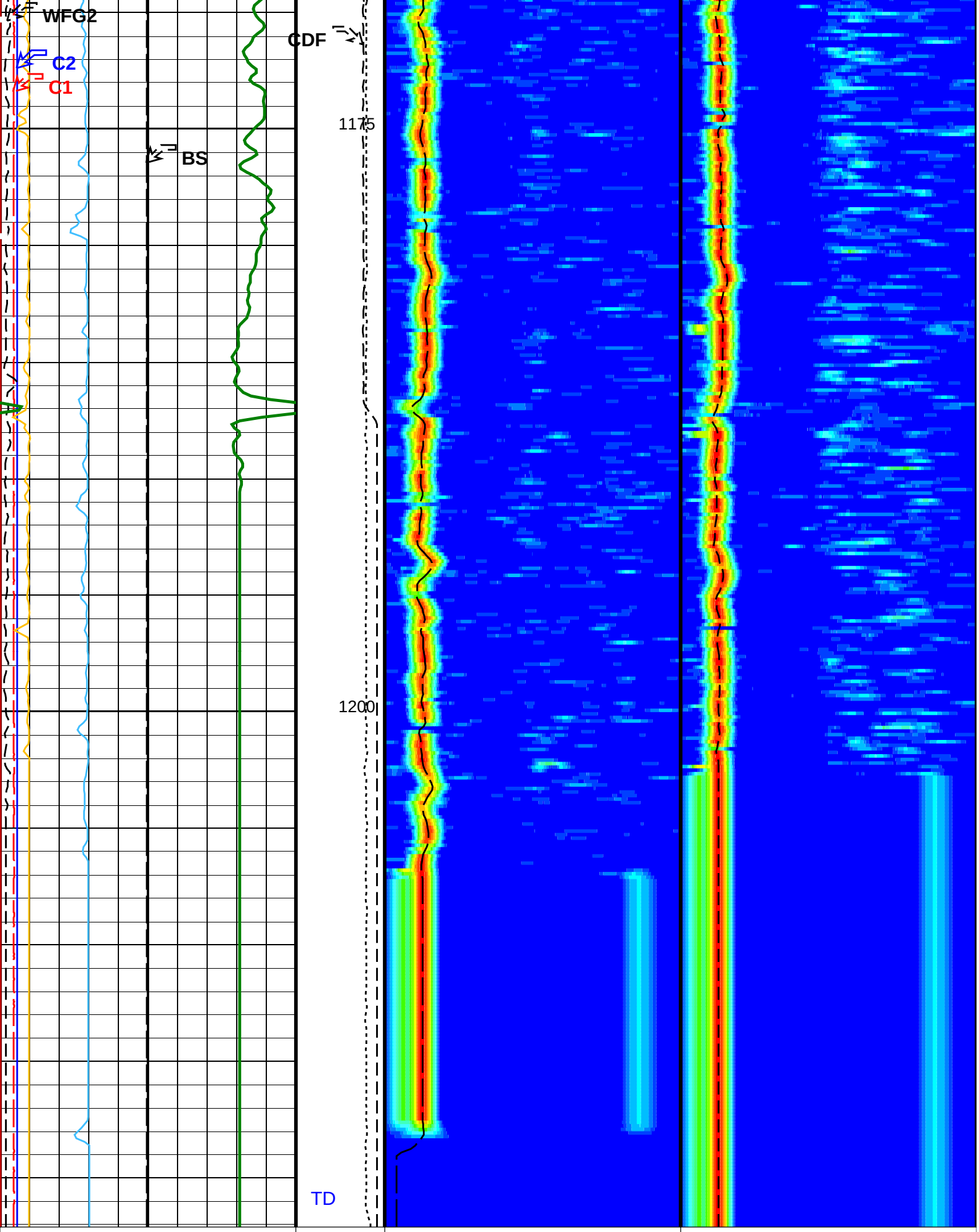
925


950
975
1000


1025
1050


1075
1100


1125
1150
TENS
HSGR
CHT2
CHR2
WCI2
DT2T
DT2R


WFG2
C2
C1
BS
CDF
1175
1200
TD
Bit Size (BS)
0
(IN)
20
Tension
(TENS)
(LBF)
10000
0
Delta−T Shear / TA − Upper Dipole
(DT2T)
40
(US/F)
1600
Delta−T Shear / RA − Upper Dipole
(DT2R)
40
(US/F)
1600

Caliper 1 (C1)	Calibrated Downhole Force (CDF) (LBF)	Tr.Array U.Dipole Slow Proj. CVDL (SPT2) (US/F)	Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)
0 (IN) 20	5000 0	Min 40 Amplitude Max 1600	Min 40 Amplitude Max 1600

Caliper 2 (C2)
0 (IN) 20

SAM2 Waveform Gain (WFG2)
0 (----) 1000

Waveform Data Copy Indicator 2 − Upper Dipole (WCI2)
0 (----) 10

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

Peak Coherence / TA − Upper Dipole (CHT2)
−2 (----) 8

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Downlog

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST−B: Dipole Shear Imager − B			
BHS	Borehole Status	OPEN	
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	1600	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	
GCSE	Generalized Caliper Selection	BS	
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	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	1600	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
WFM2	Waveform Mode 2	W1	
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	−0.00245644	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.97505	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.981164	
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	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
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_037LUP	PRODUCER	22−Jan−2018 16:14	1222.1 M	528.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_053PUP	FN:76	PRODUCER	22−Jan−2018 19:17

Company: International Ocean Discovery Program Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59	1220.7 M	561.1 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

Peak Coherence / TA − Lower Dipole (CHT1)

−2 (−−−−) 8

Peak Coherence / RA − Lower Dipole (CHR1)

0 (−−−−) 10

Waveform Data Copy Indicator 1 − Lower Dipole (WCI1)

0 (−−−−) 10

SAM1 Waveform Gain (WFG1)

0 (−−−−) 1000

Caliper 2 (C2)

0 (IN) 20

Uplog #2

Caliper 1 (C1)

0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)

5000 0

Min Amplitude Max

Tr.Array L.Dipole Slow Proj. CVDL (SPT1) (US/F)

40 1600

Min Amplitude Max

Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F)

40 1600

Bit Size (BS)

0 (IN) 20

Tension (TENS) (LBF)

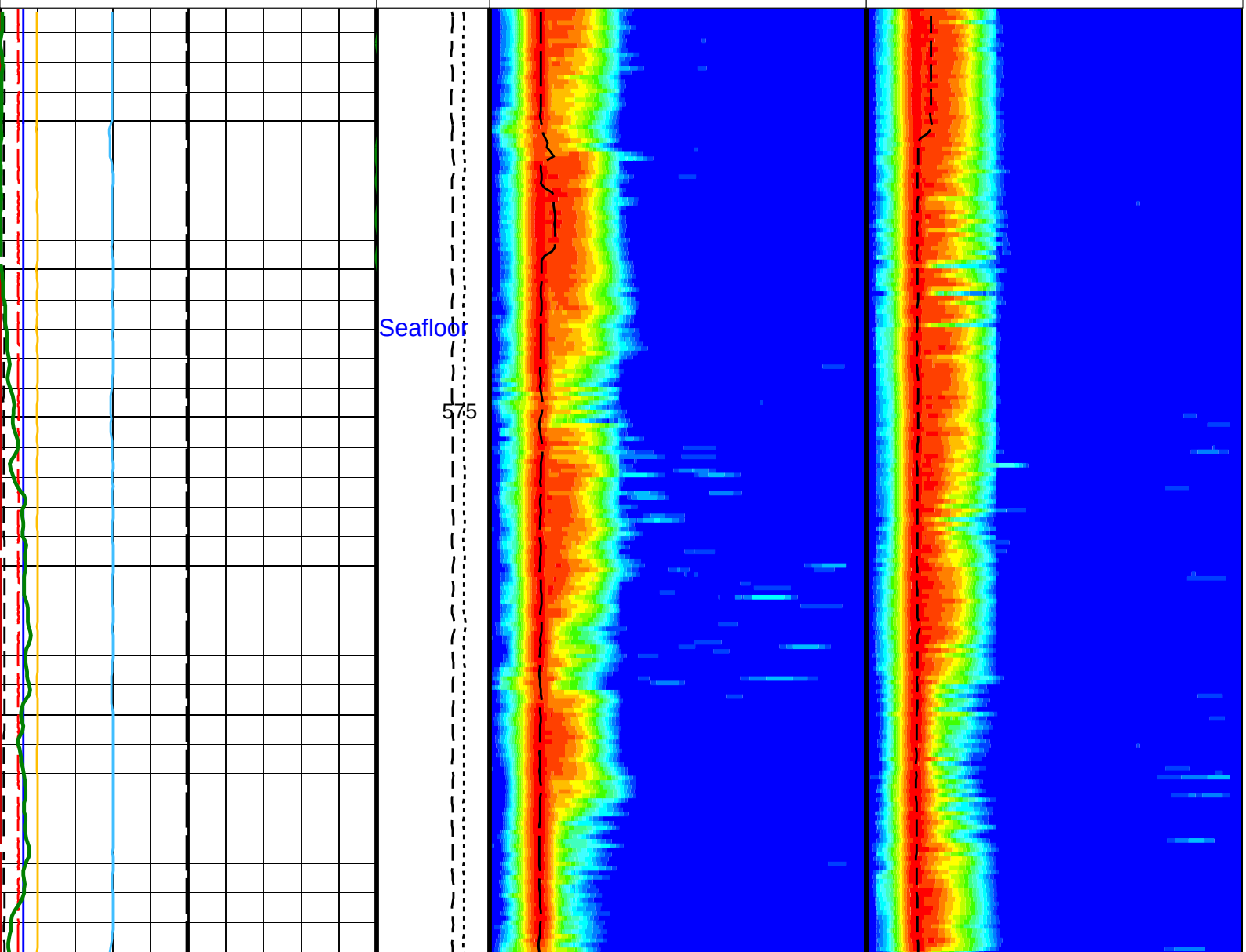
10000 0

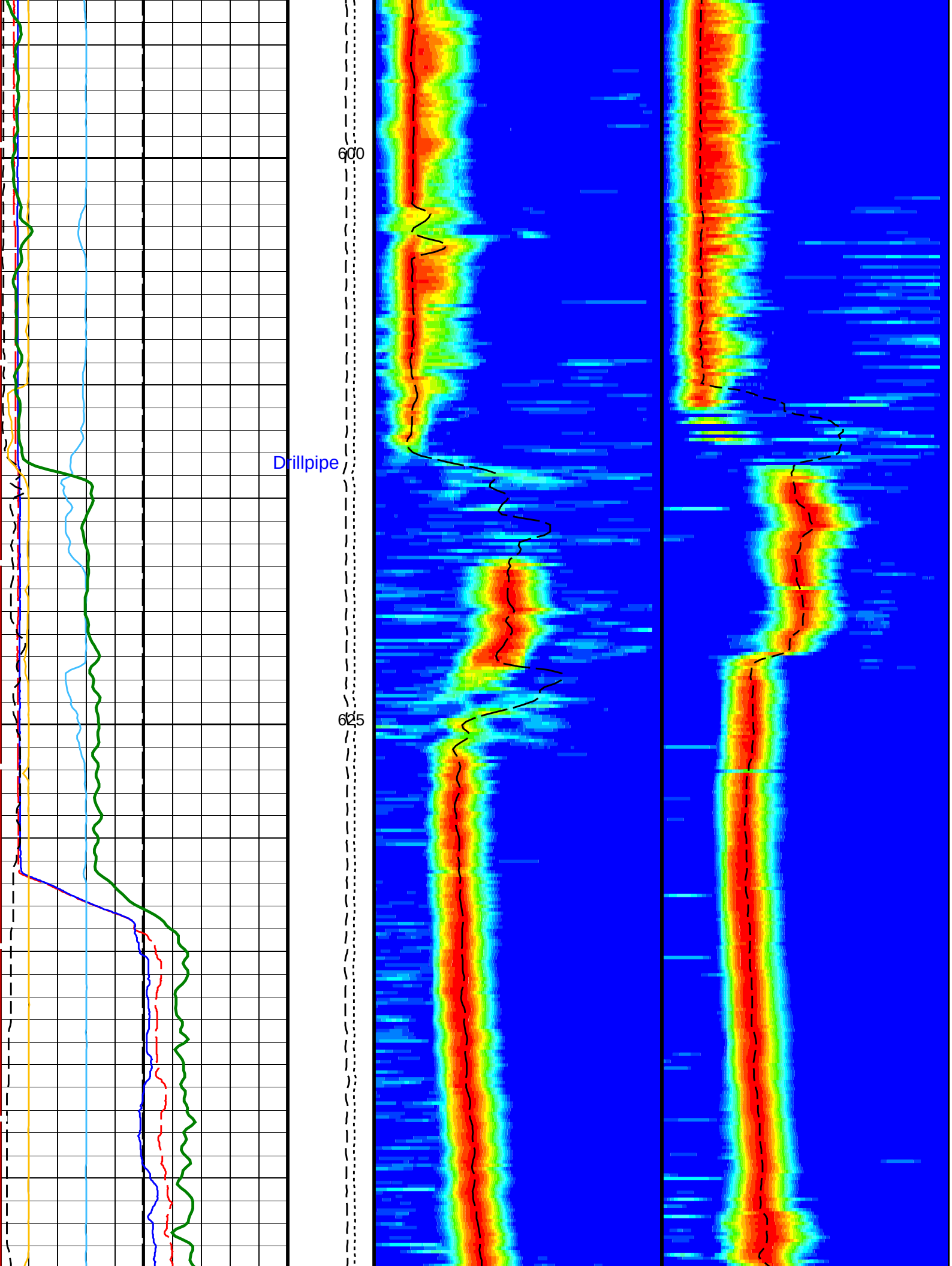
Delta−T Shear / TA − Lower Dipole (DT1T) (US/F)

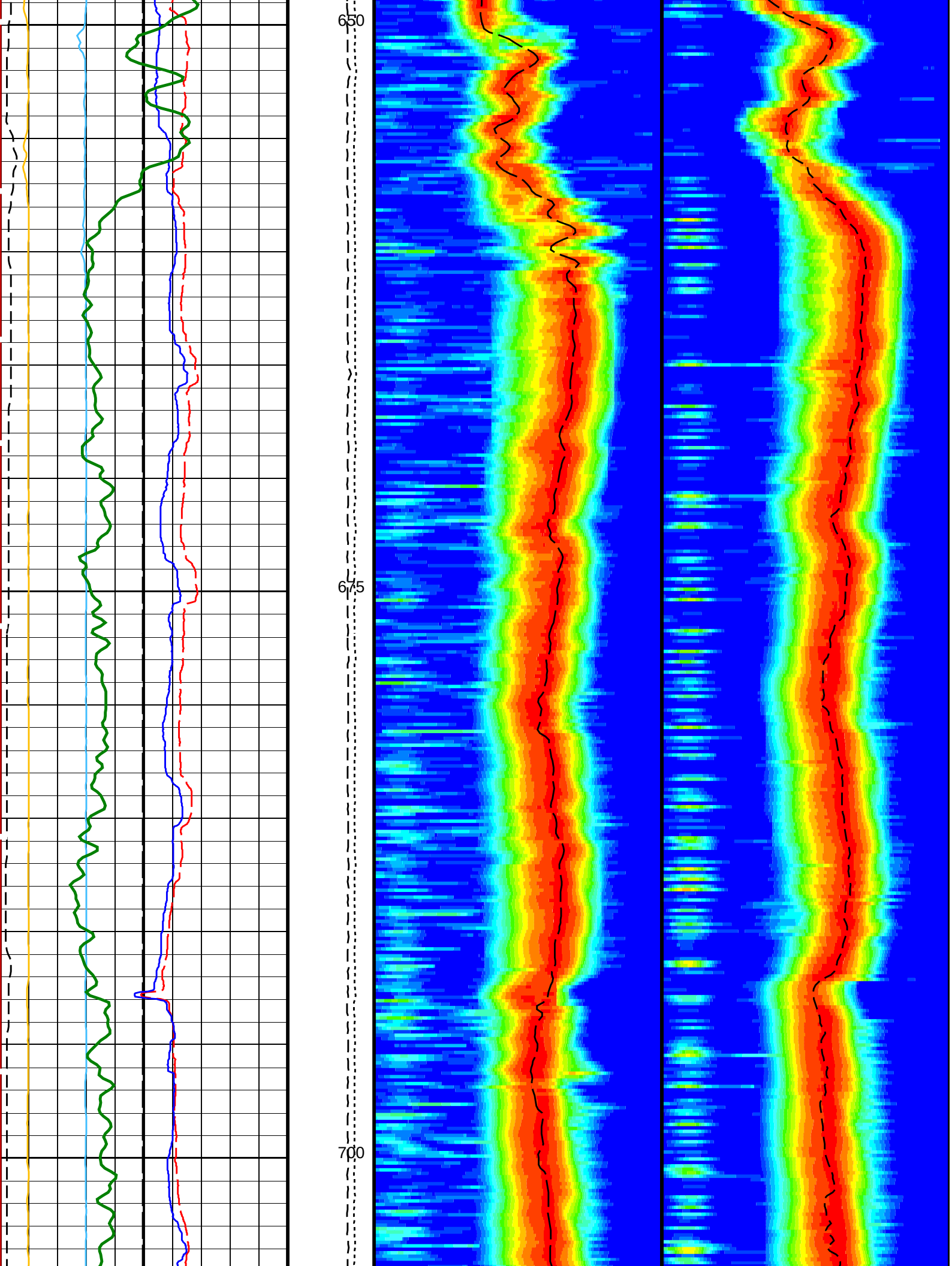
40 1600

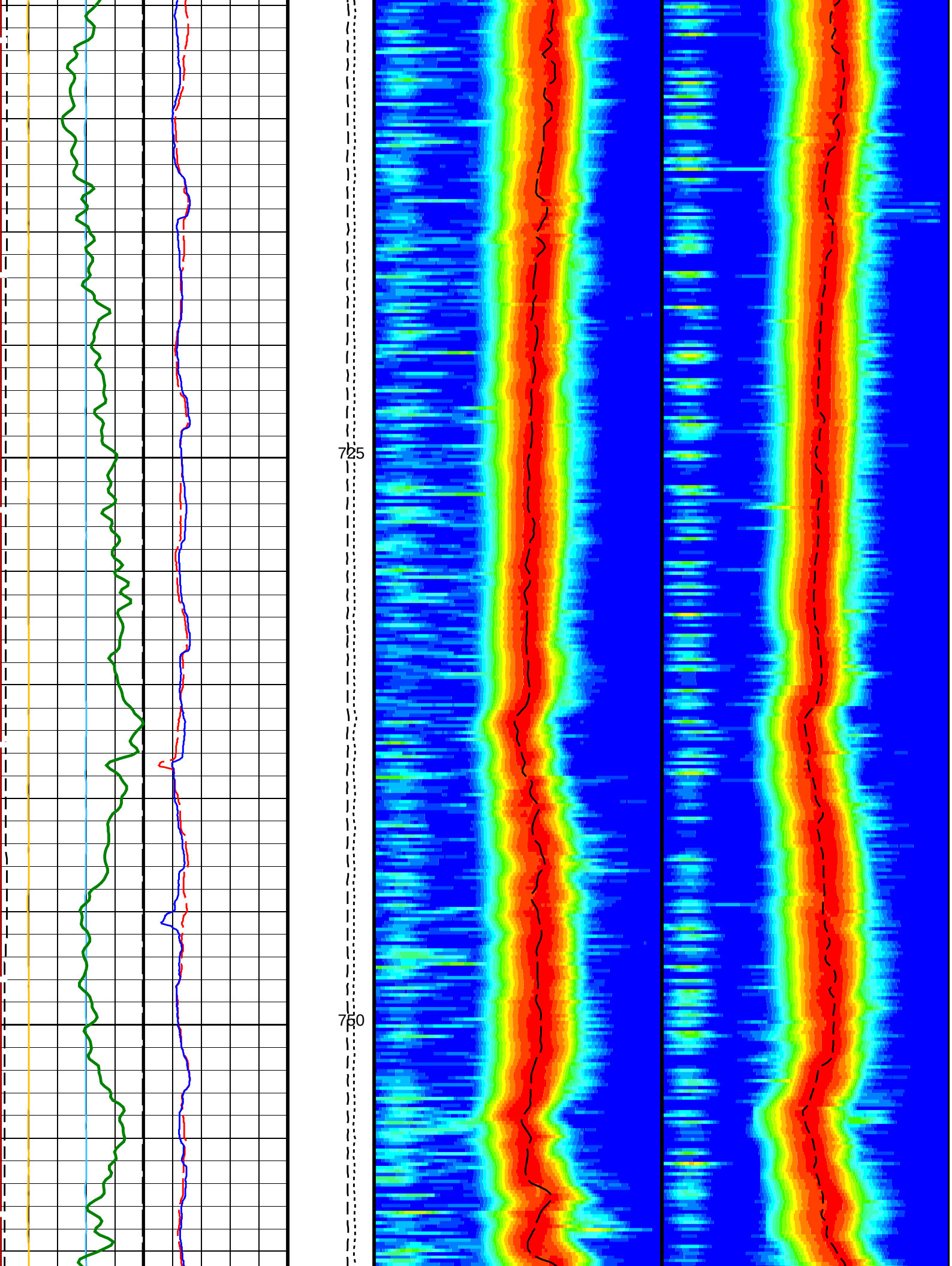
Delta−T Shear / RA − Lower Dipole (DT1R) (US/F)

40 1600




600
Drillpipe
625


650
675
700


725
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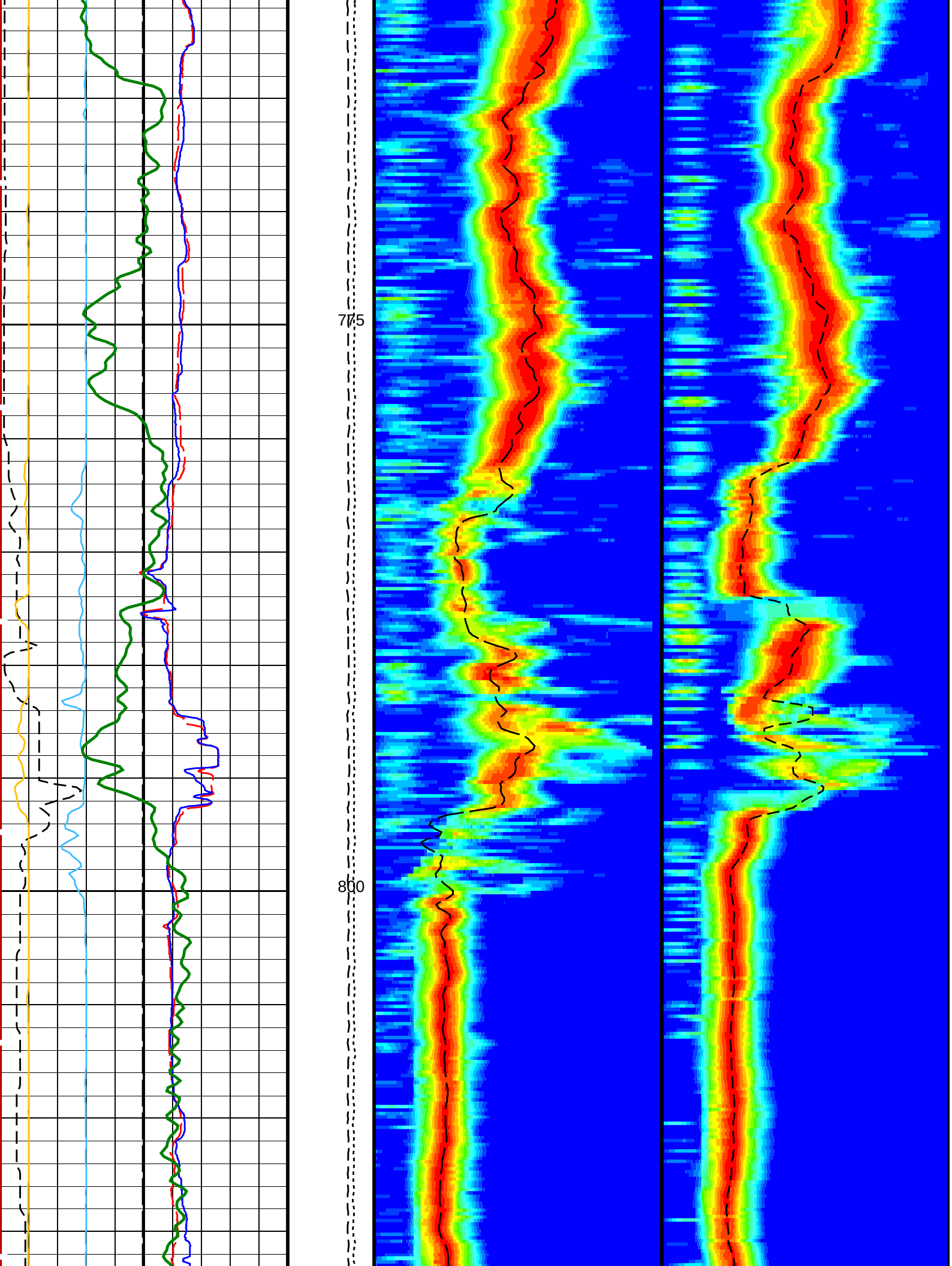
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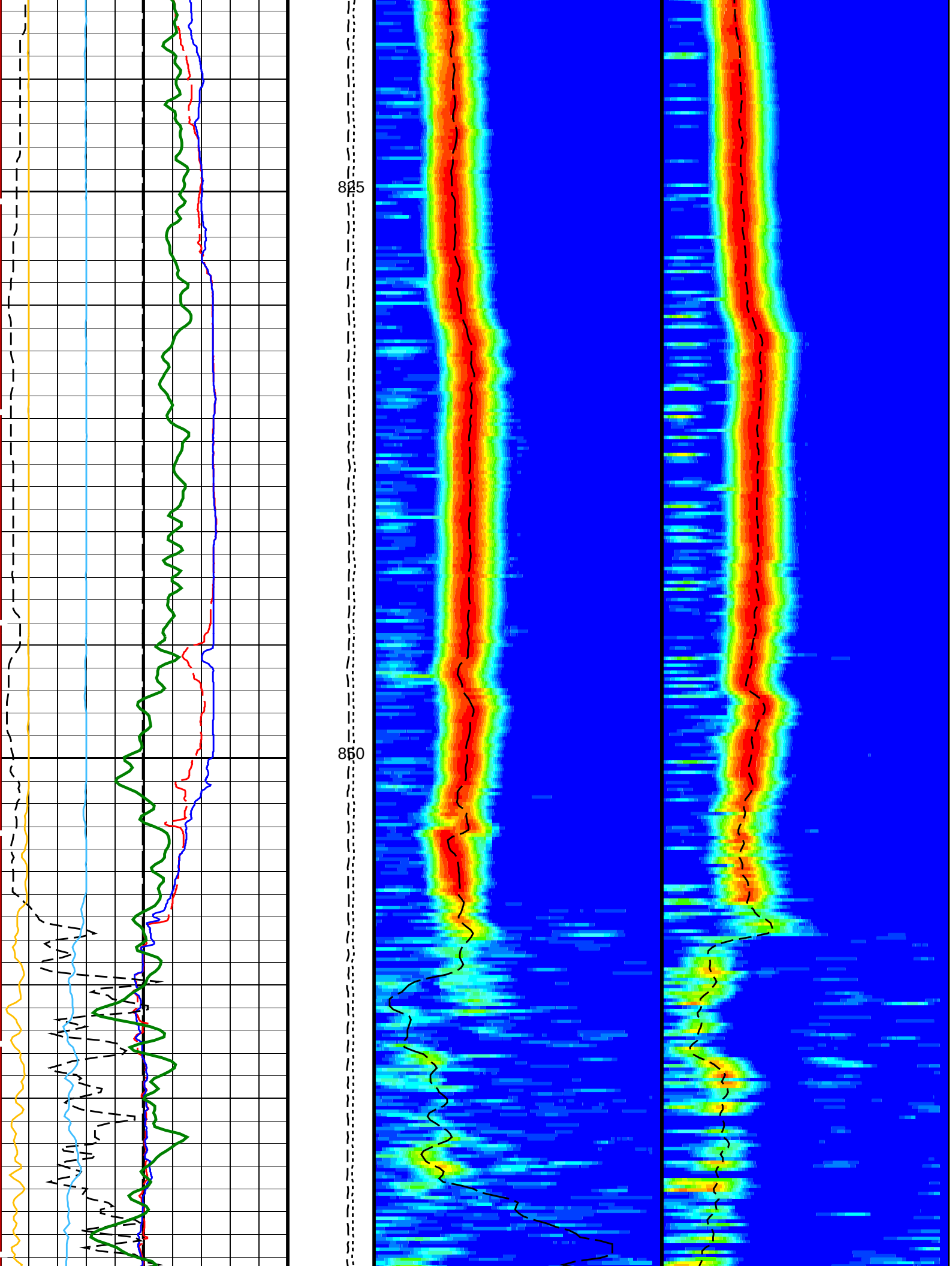
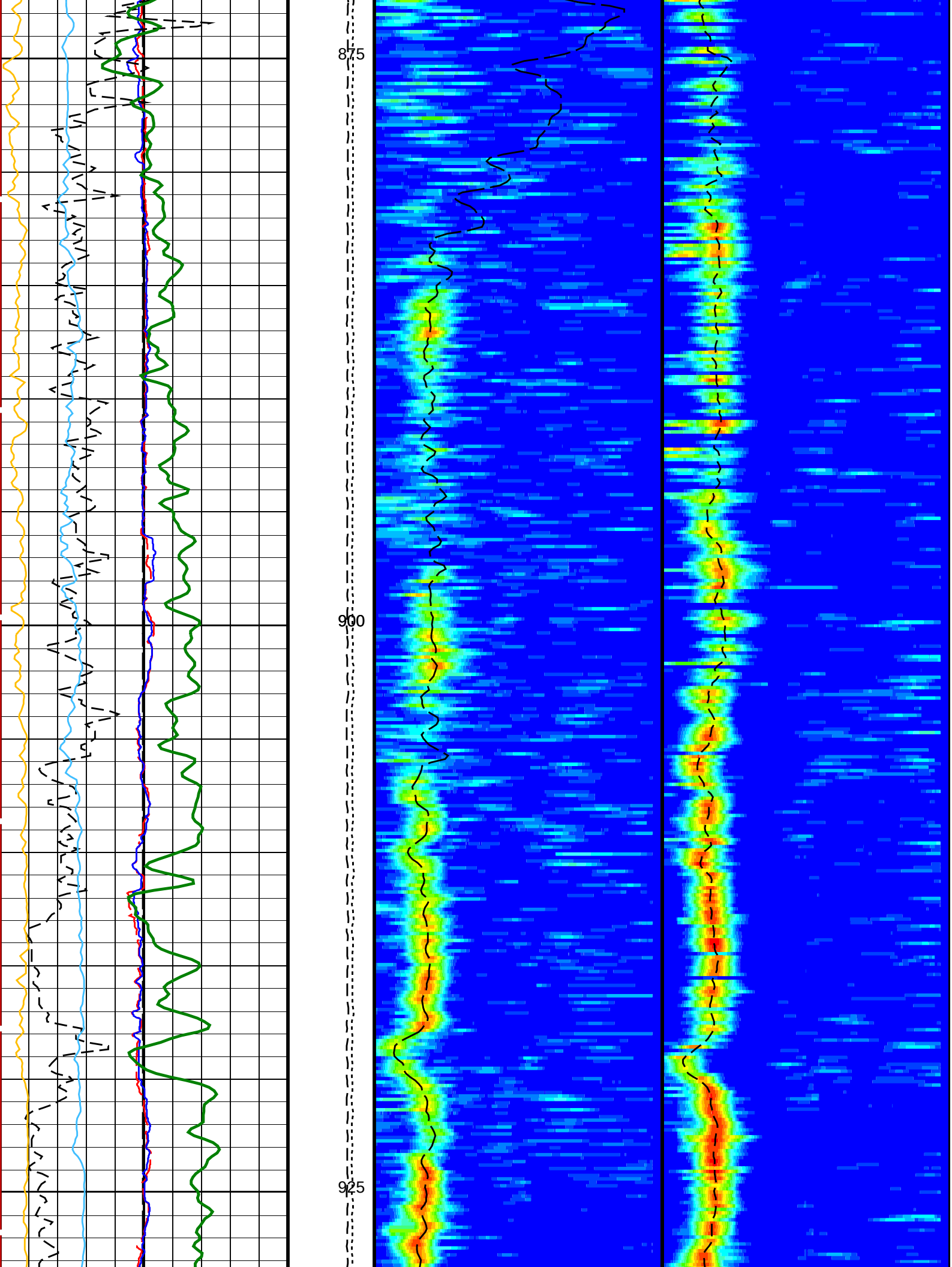
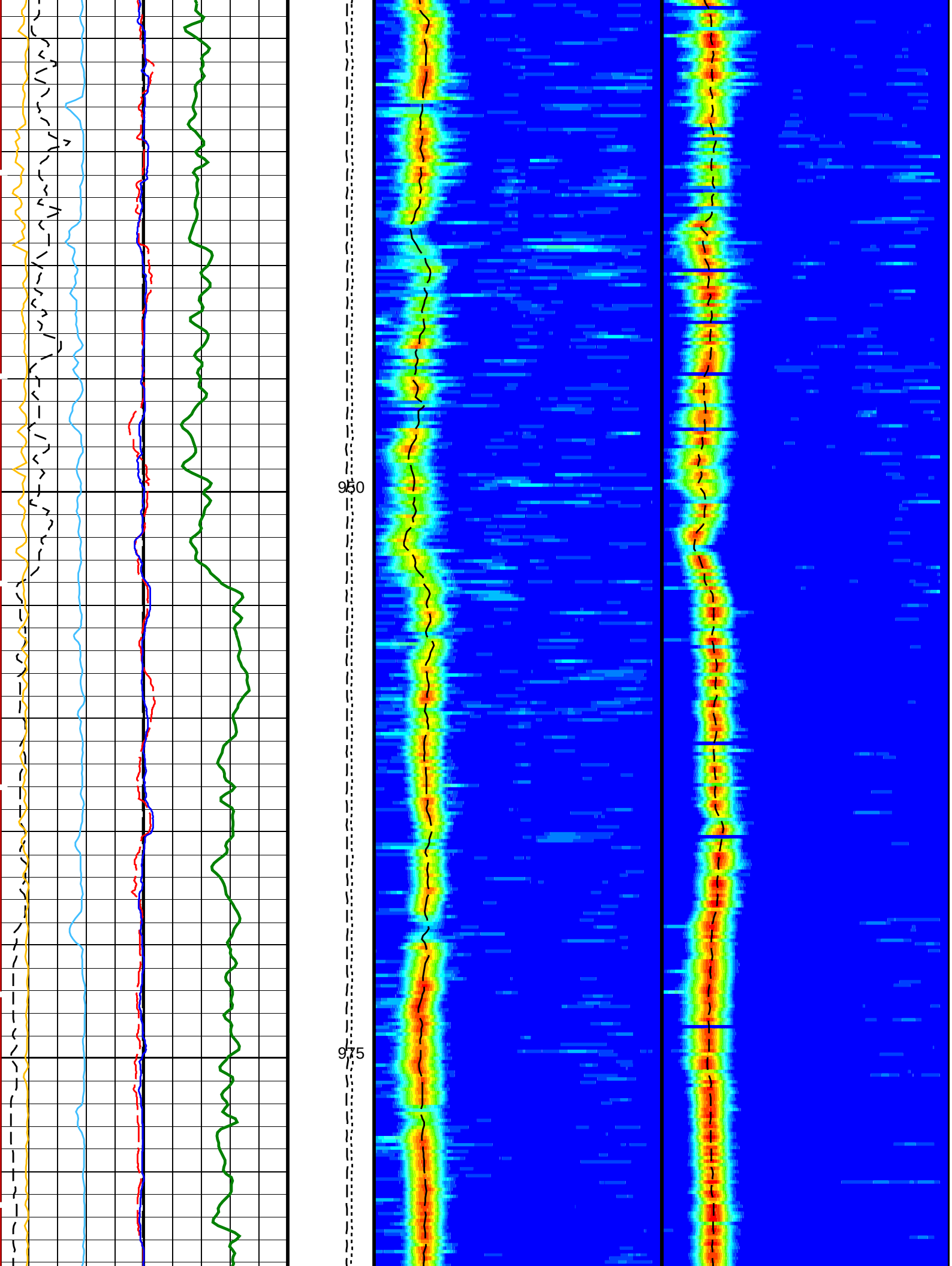
800


825
850


875
900
925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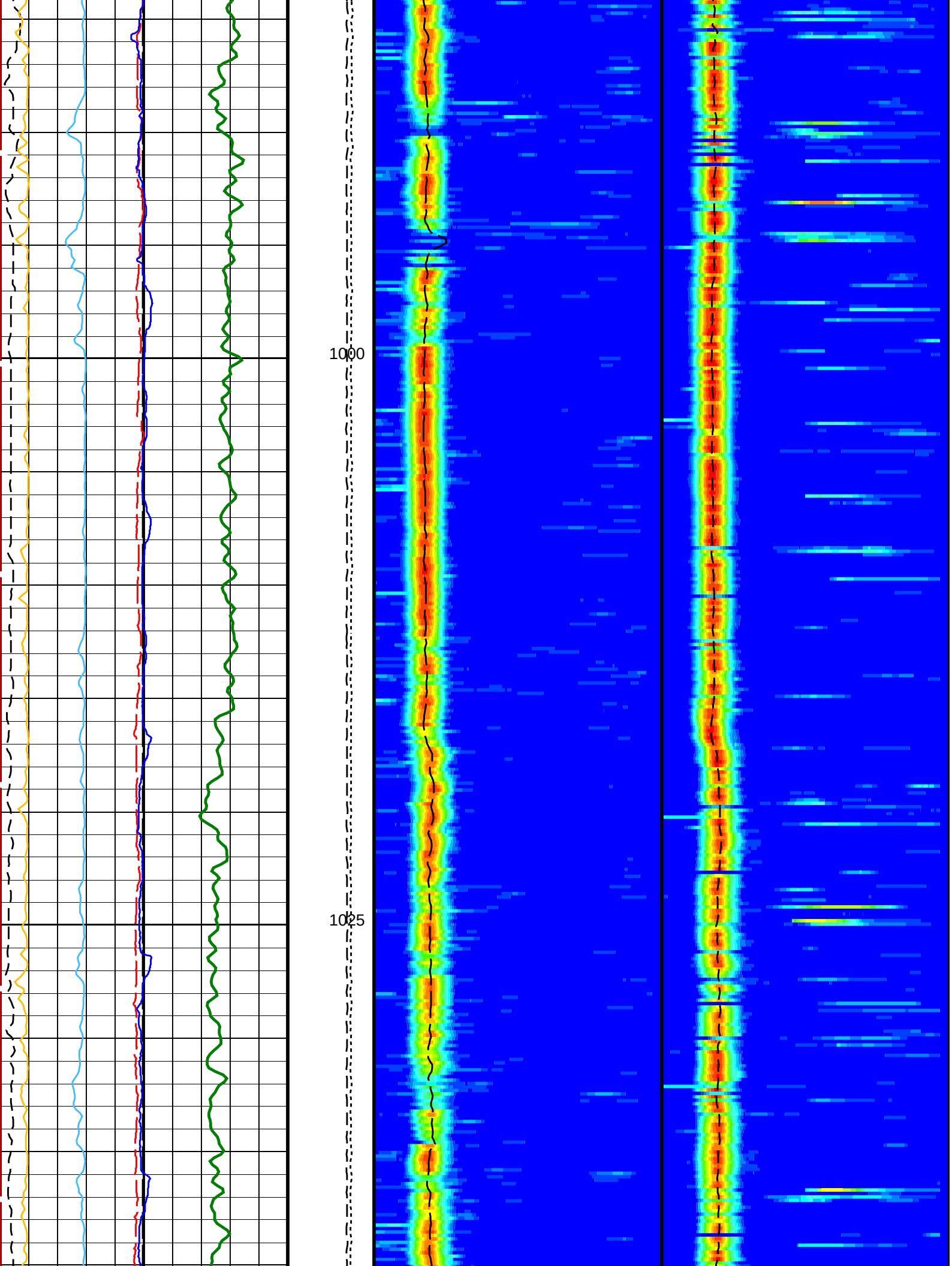
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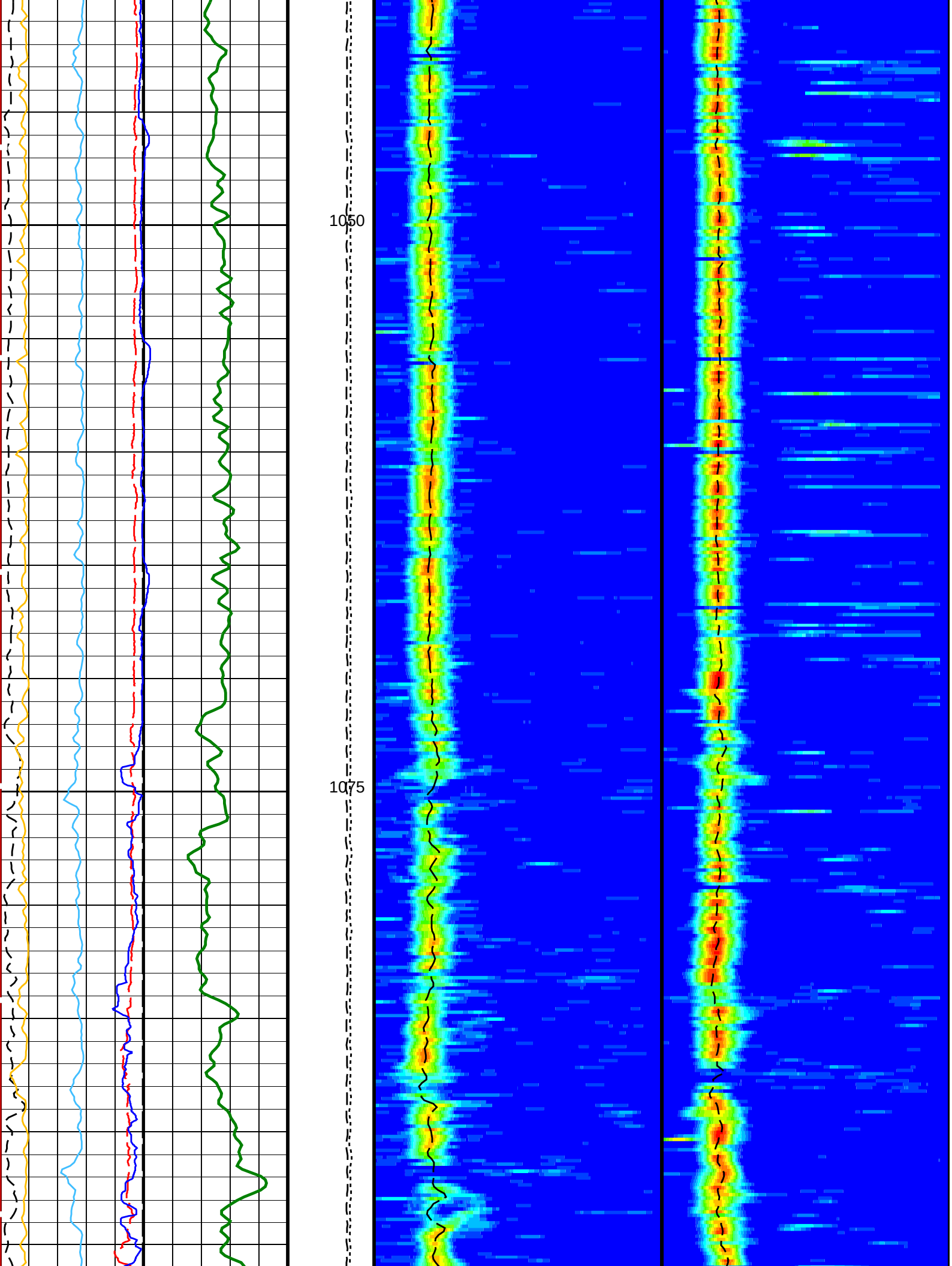
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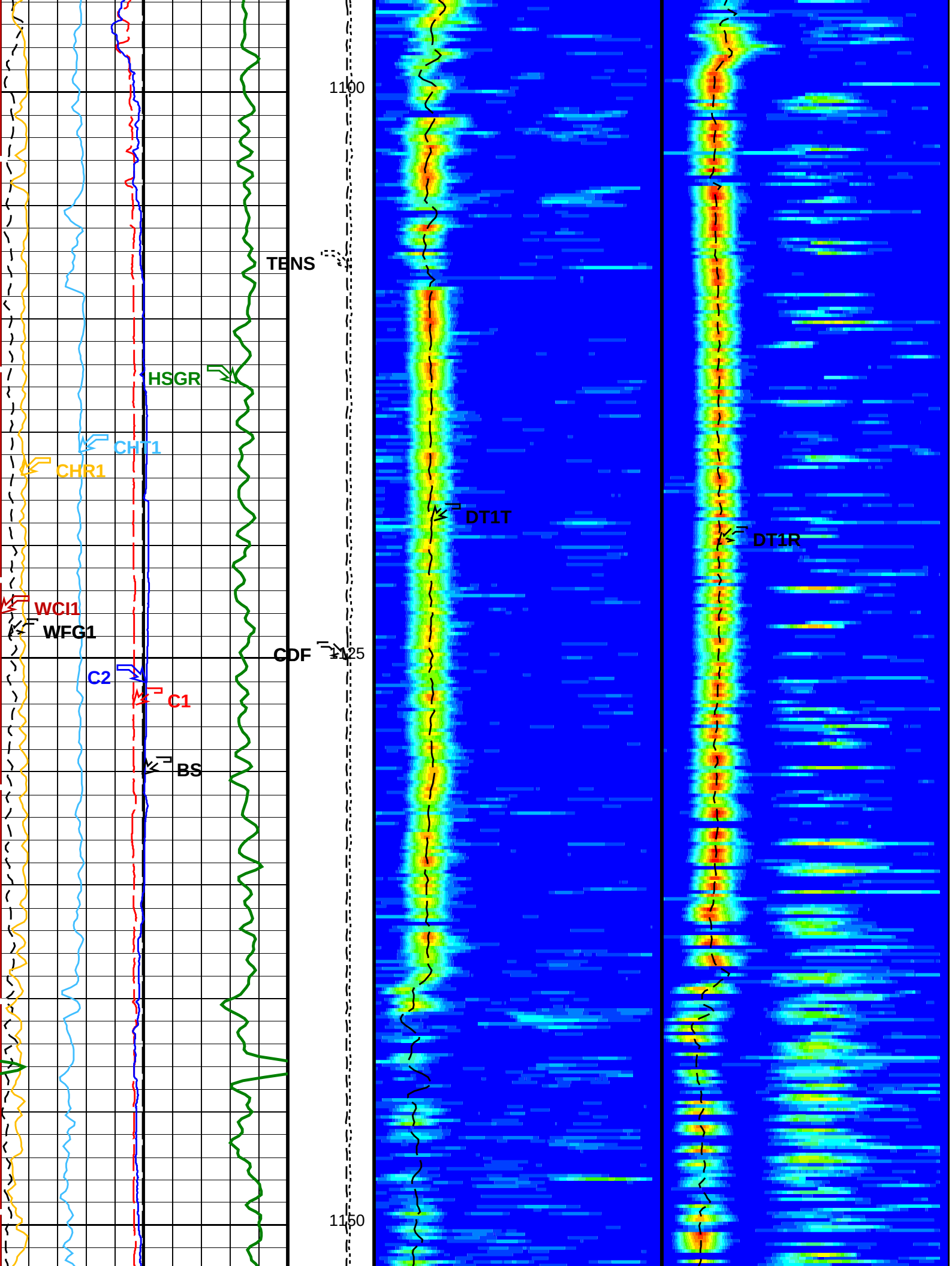
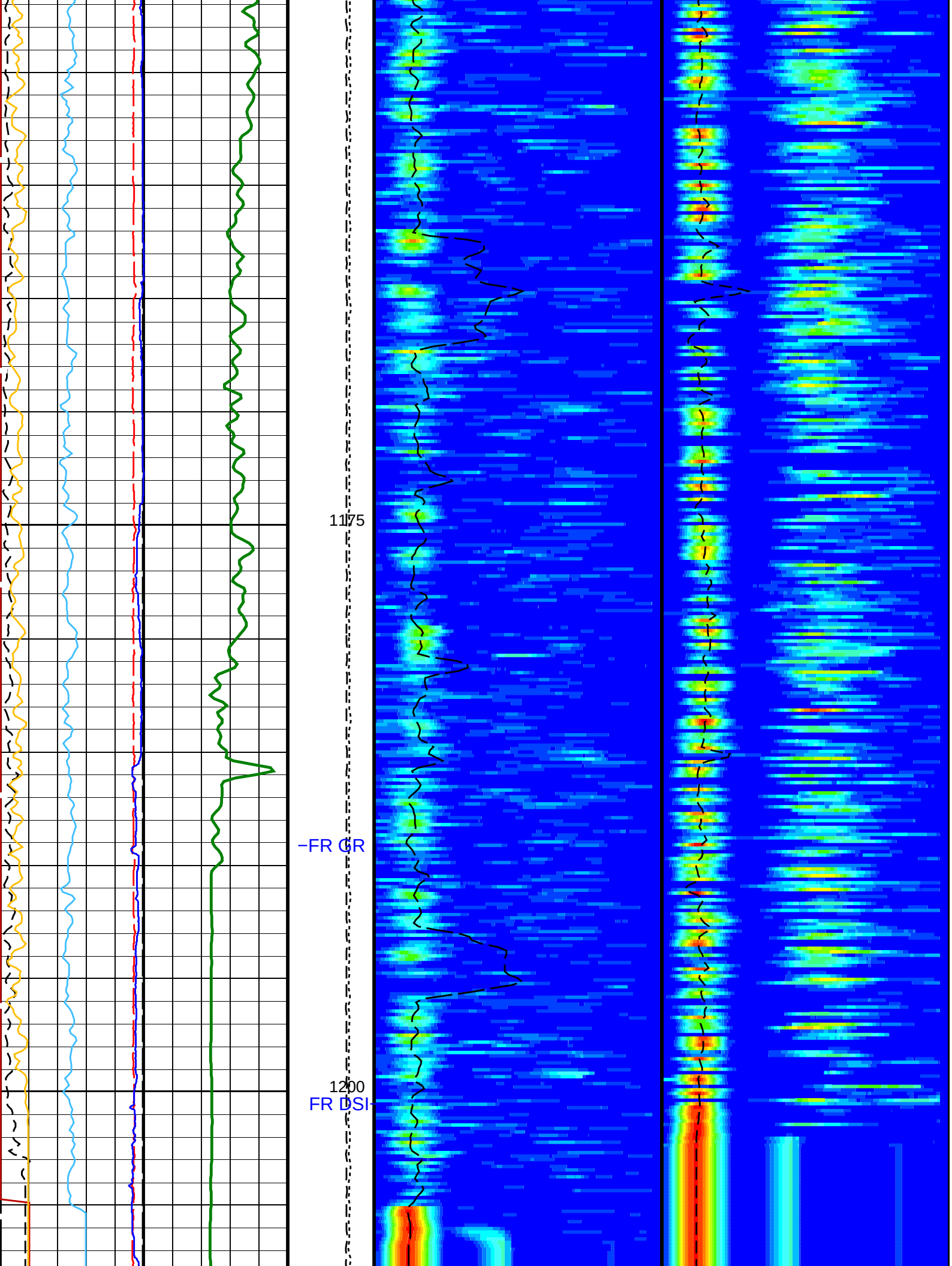
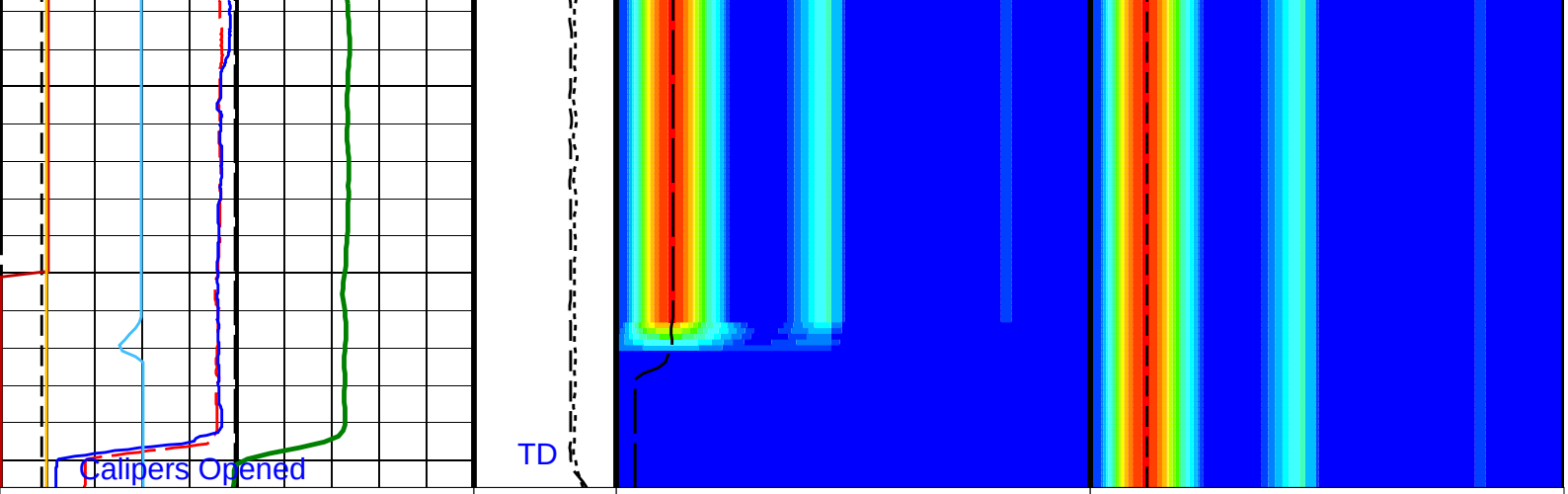

1100
TENS
HSGR
CHT1
CHR1
DT1T
DT1R
WCI1
WFG1
CDF
1125
C2
C1
BS
1150


1175
FR GR
1200
FR DSI



Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
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	1600	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	
GCSE	Generalized Caliper Selection	C1	
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

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	1600	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	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00261849	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.966109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970636	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_LOWER_DIPOLE_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:59

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59	1220.7 M	561.1 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Peak Coherence / TA − Upper Dipole (CHT2)
−2 (−−−−) 8

Peak Coherence / RA − Upper Dipole (CHR2)
0 (−−−−) 10

Waveform Data Copy Indicator 2 − Upper Dipole (WCI2)
0 (−−−−) 10

SAM2 Waveform Gain (WFG2)
0 (−−−−) 1000

Caliper 2 (C2)
0 (IN) 20

Uplog #2

Caliper 1 (C1)
0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)
5000 0

Min Amplitude Max
Tr.Array U.Dipole Slow Proj. CVDL (SPT2)
40 (US/F) 1600

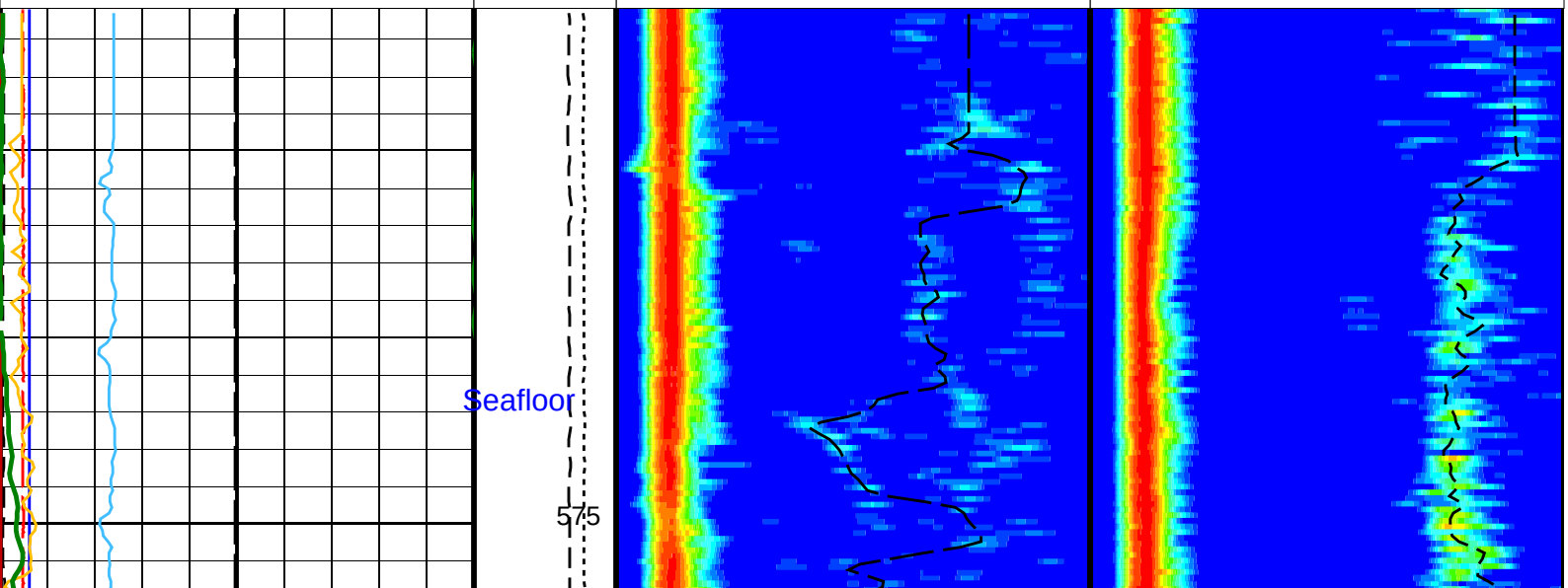
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1600

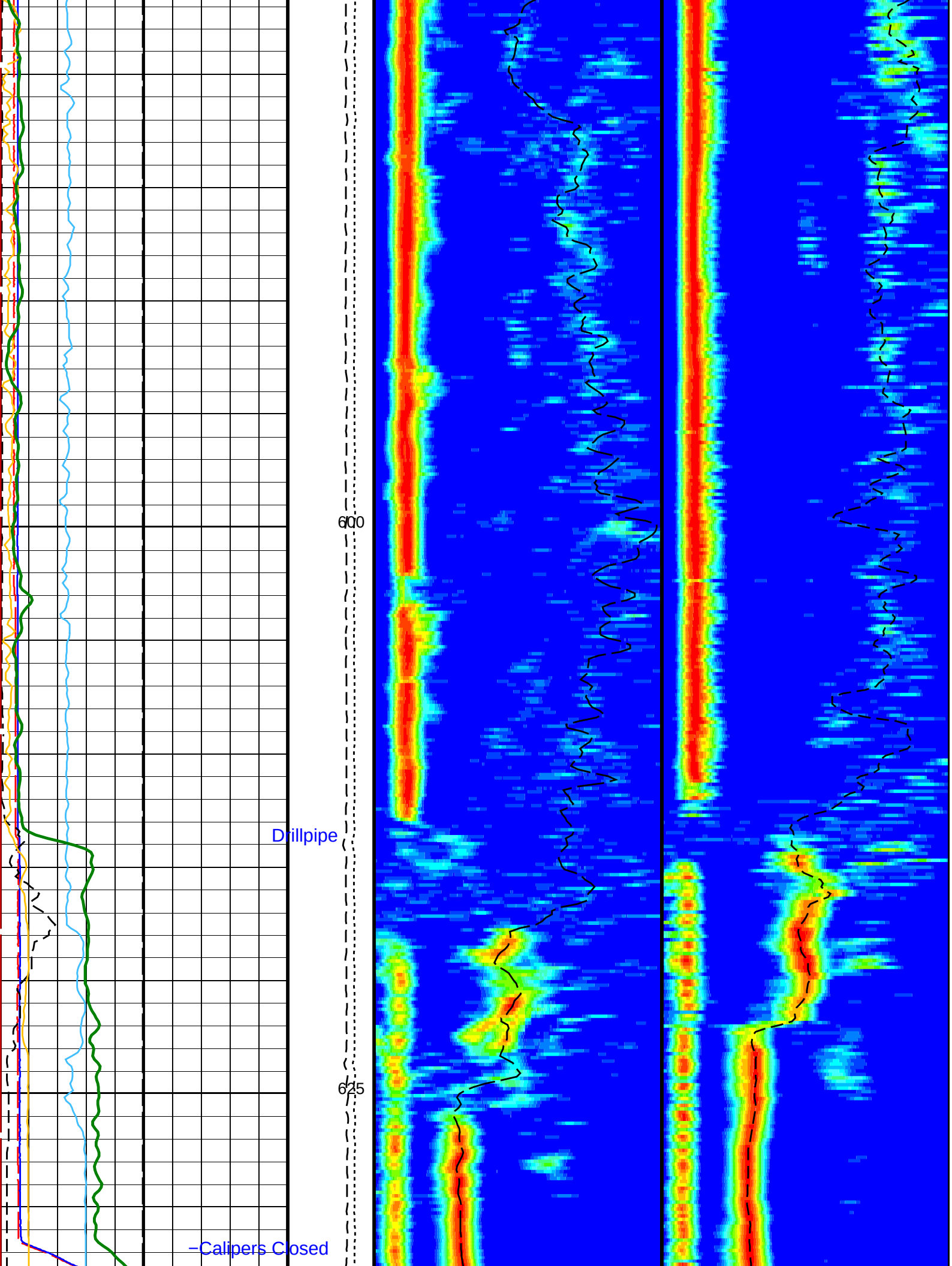
Bit Size (BS)
0 (IN) 20

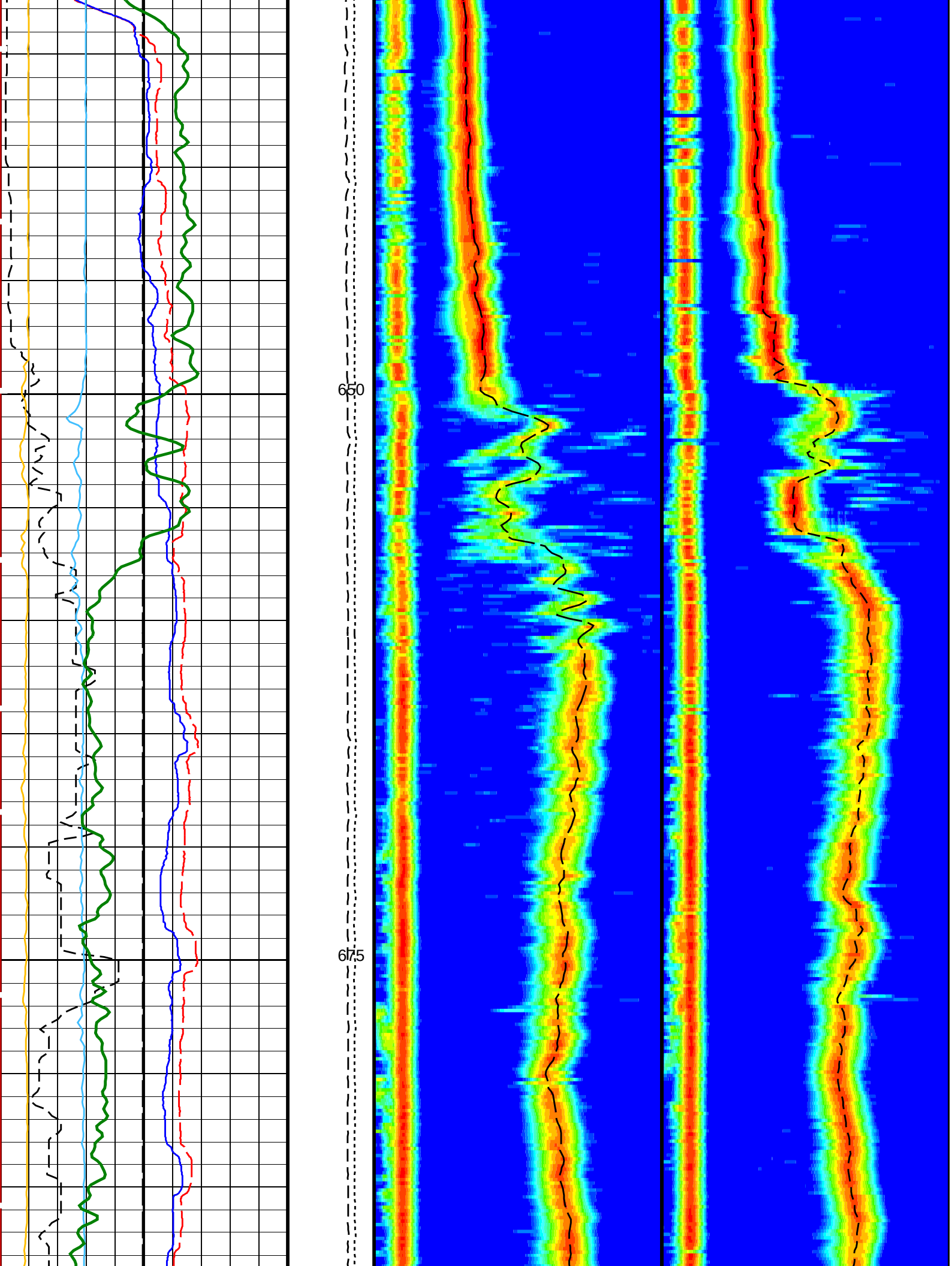
Tension (TENS) (LBF)
10000 0

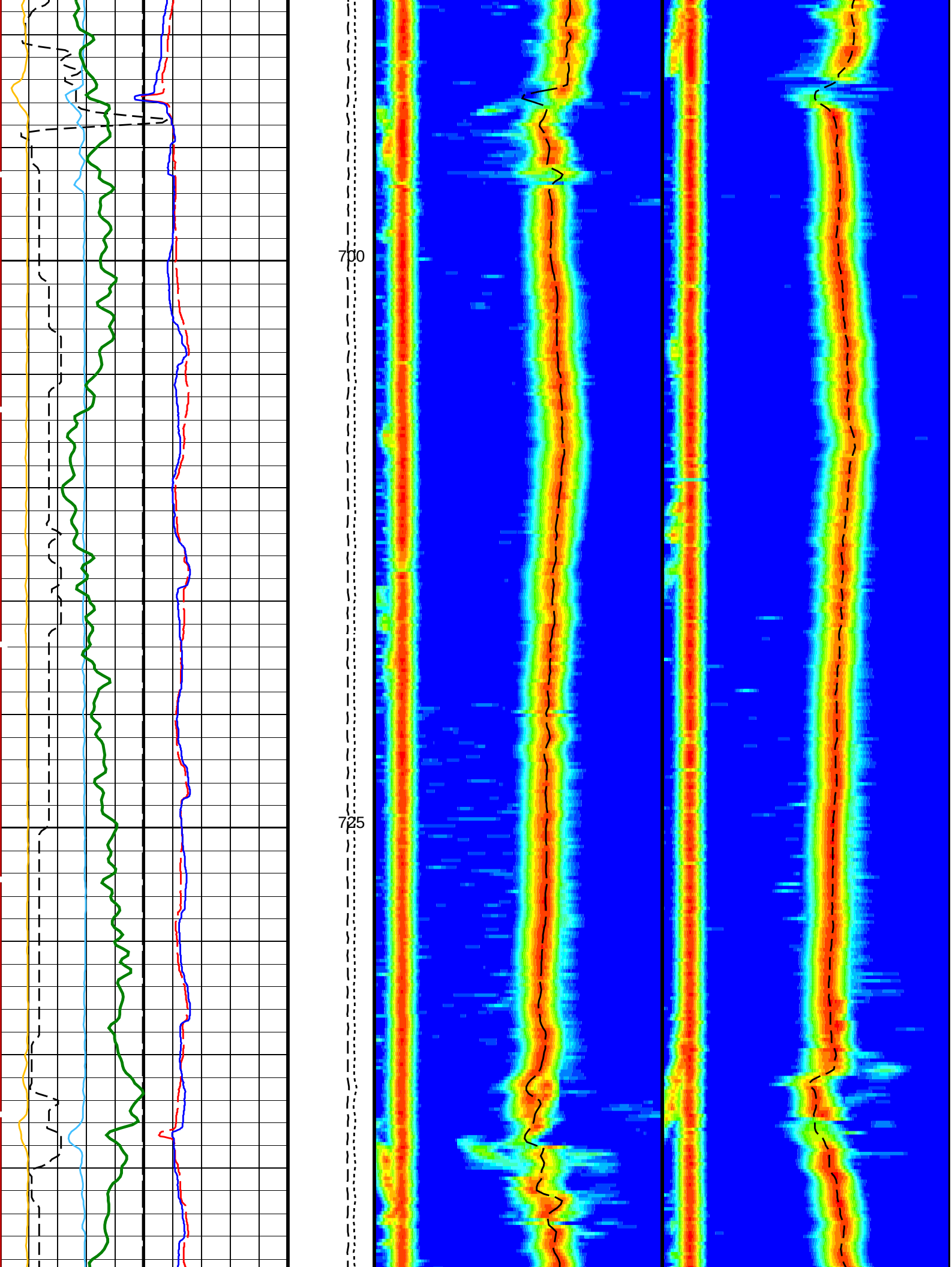
Delta−T Shear / TA − Upper Dipole (DT2T)
40 (US/F) 1600

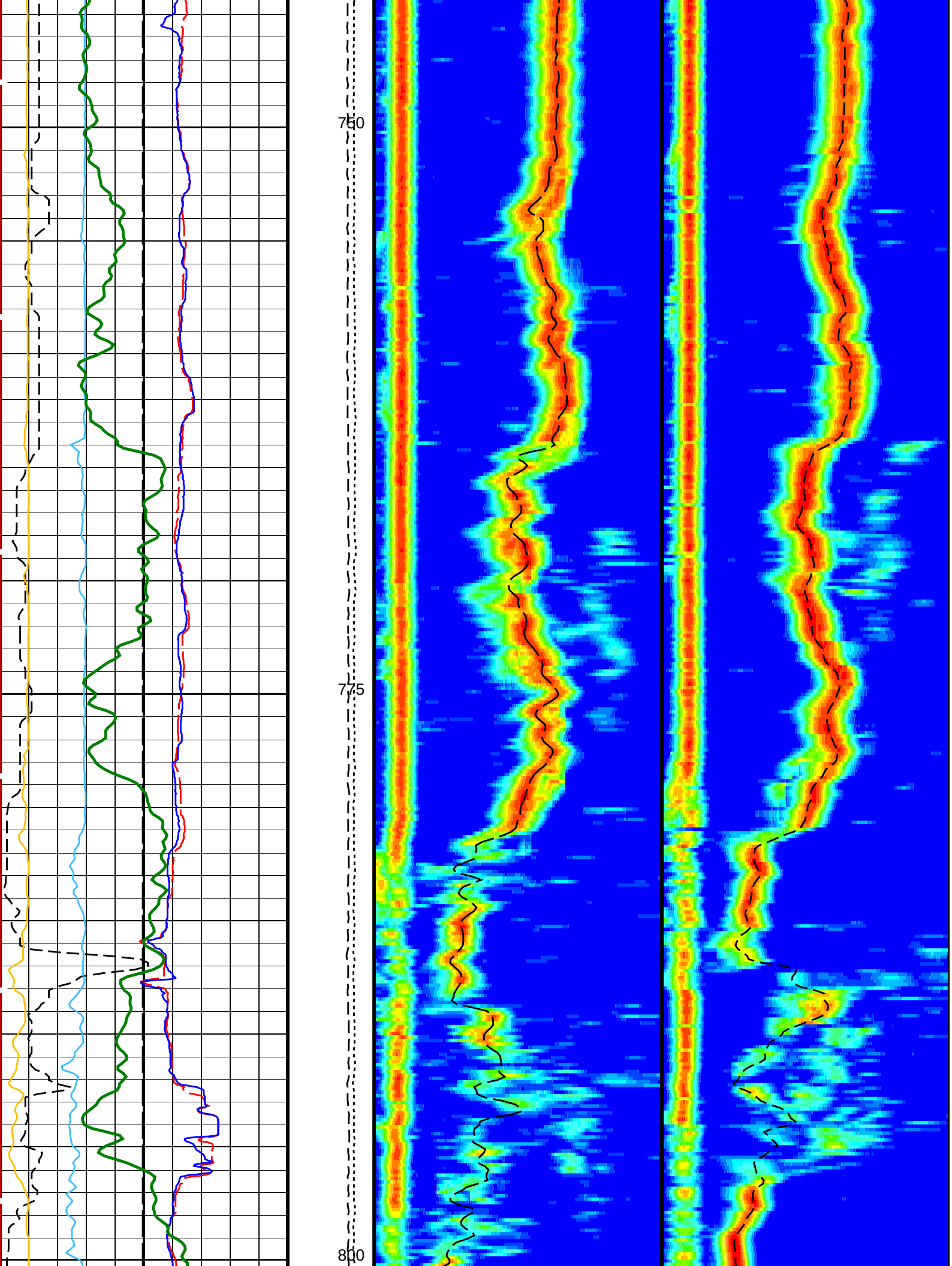
Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1600

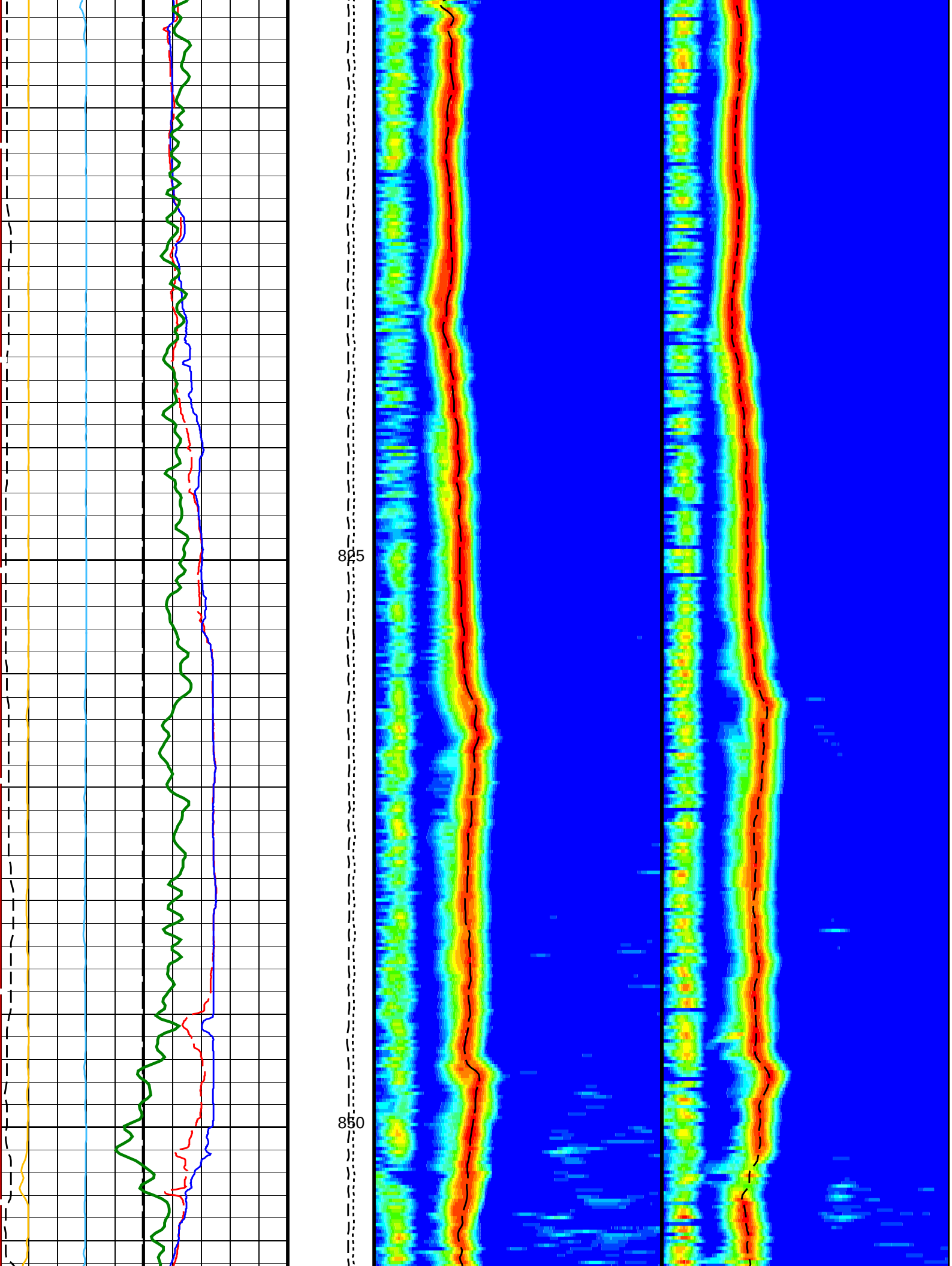


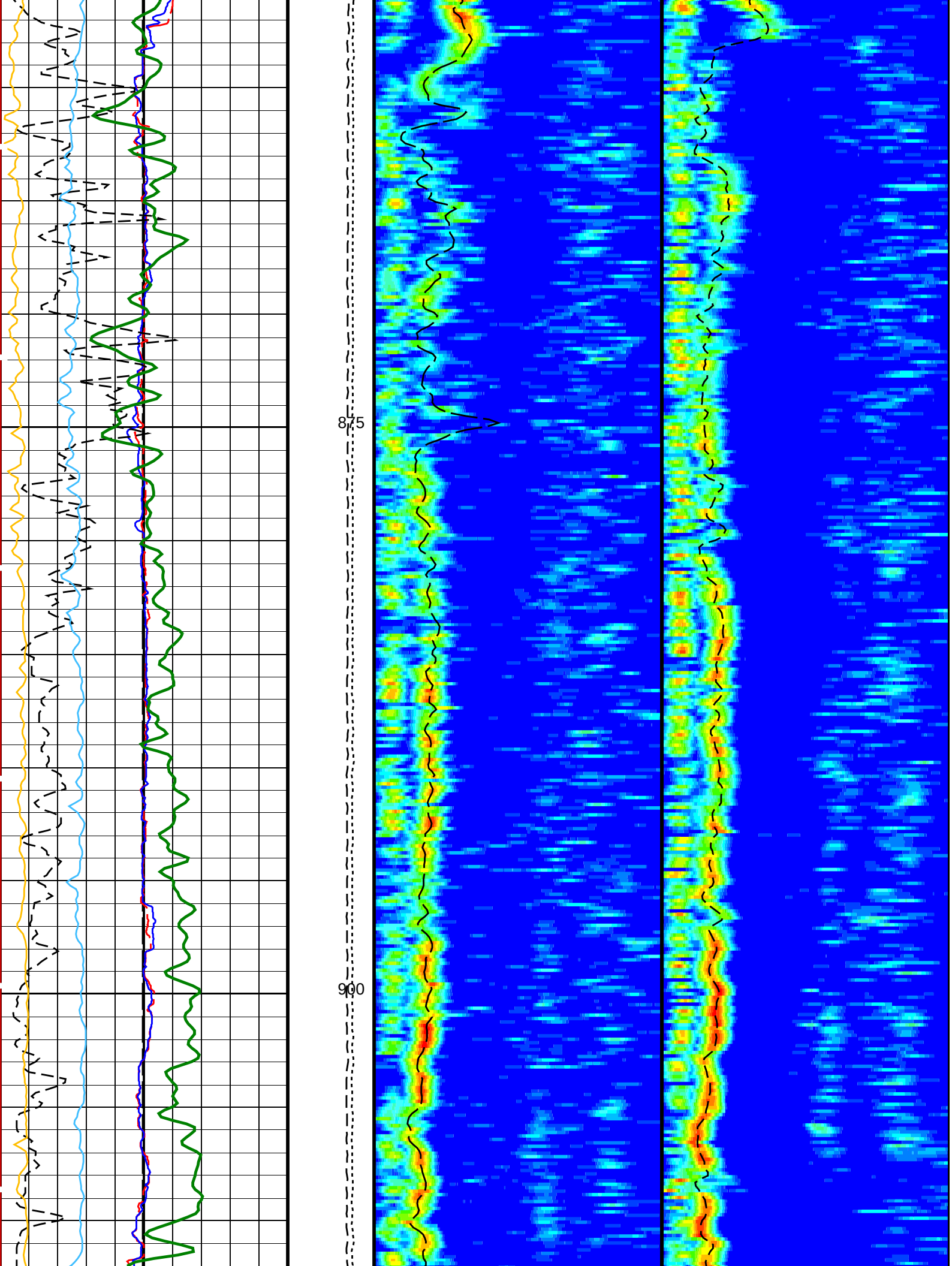

600
Drillpipe
625
−Calipers Closed

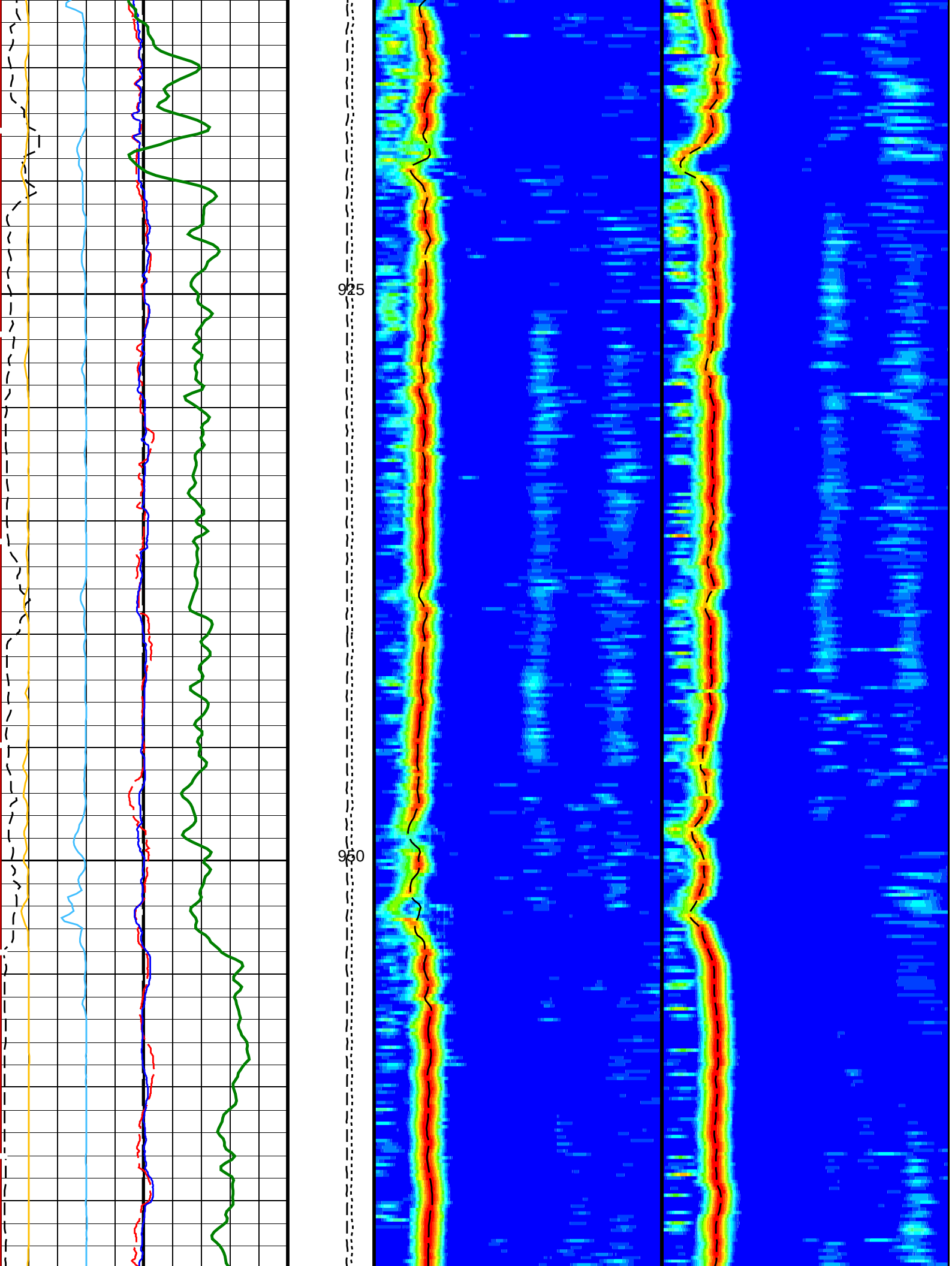

650
675

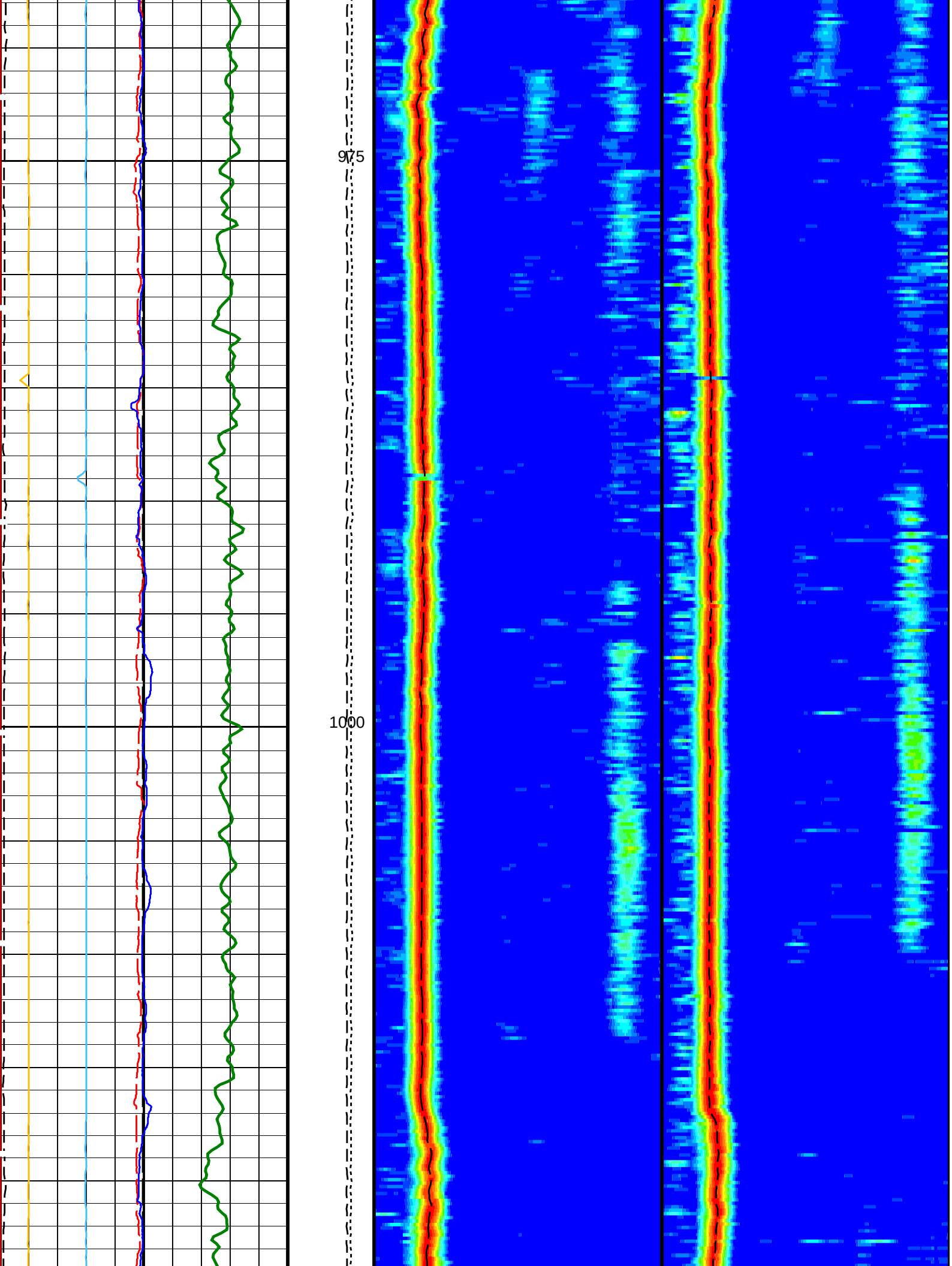

700
725

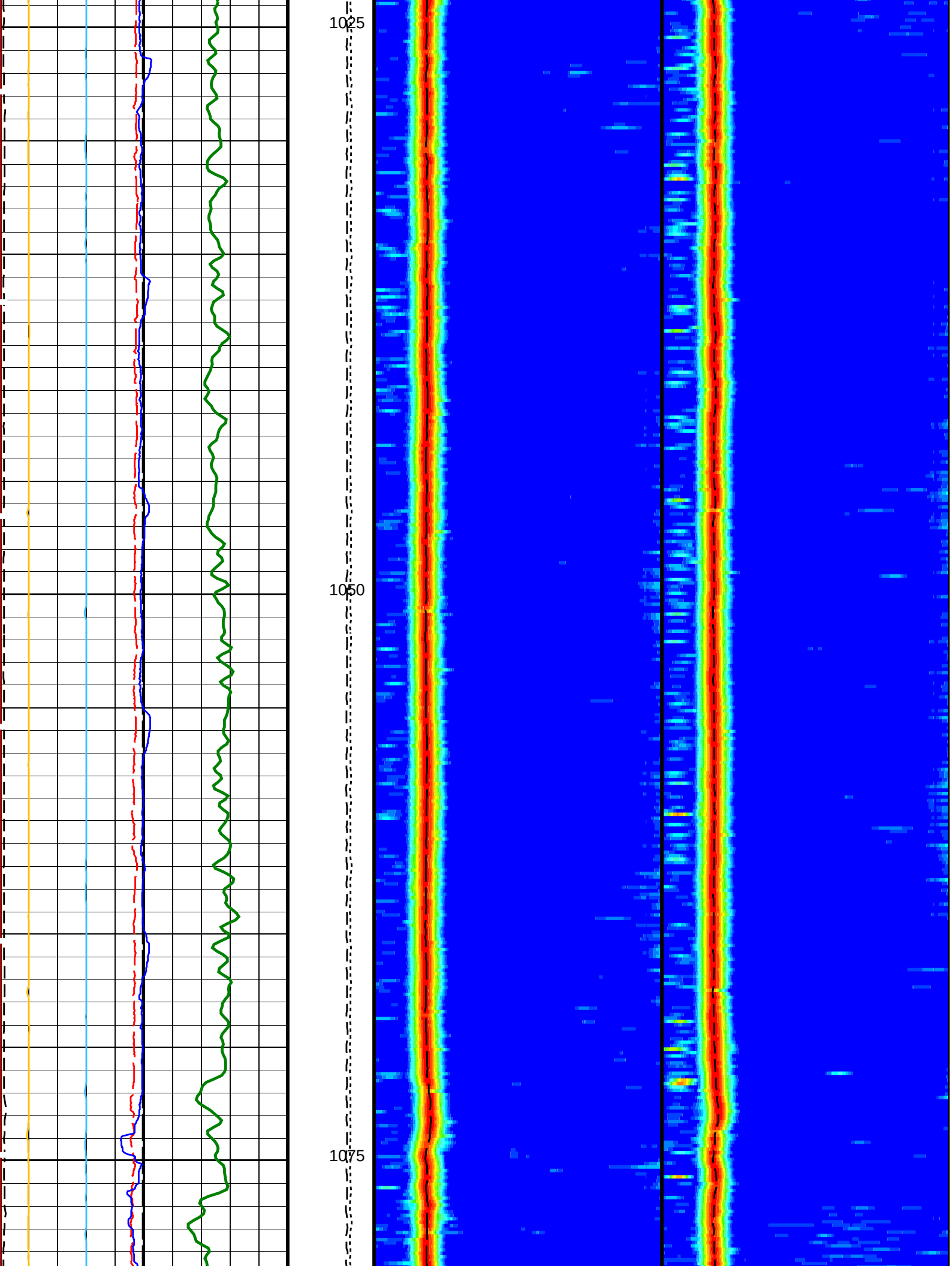

750
775
800

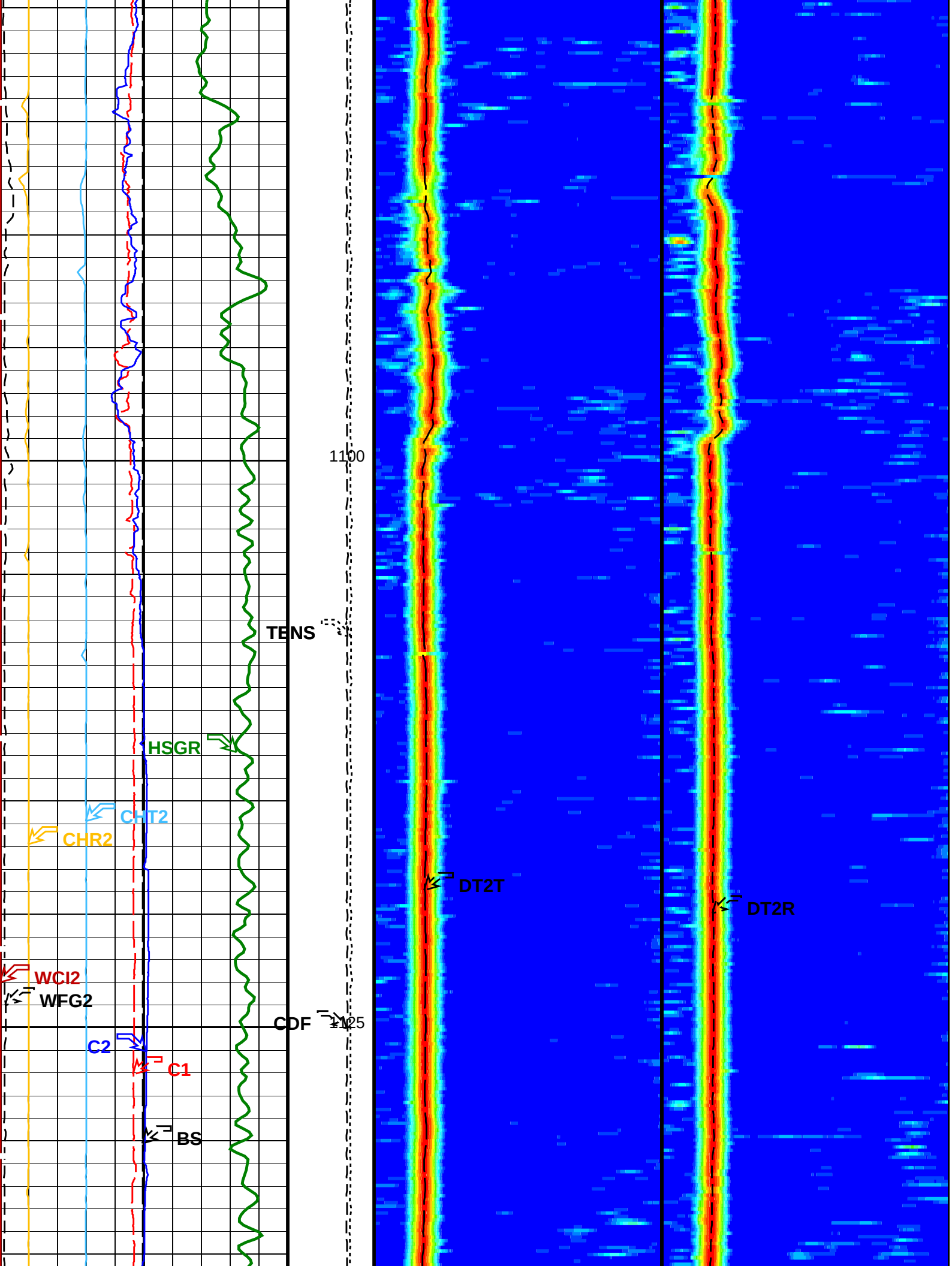

825
850

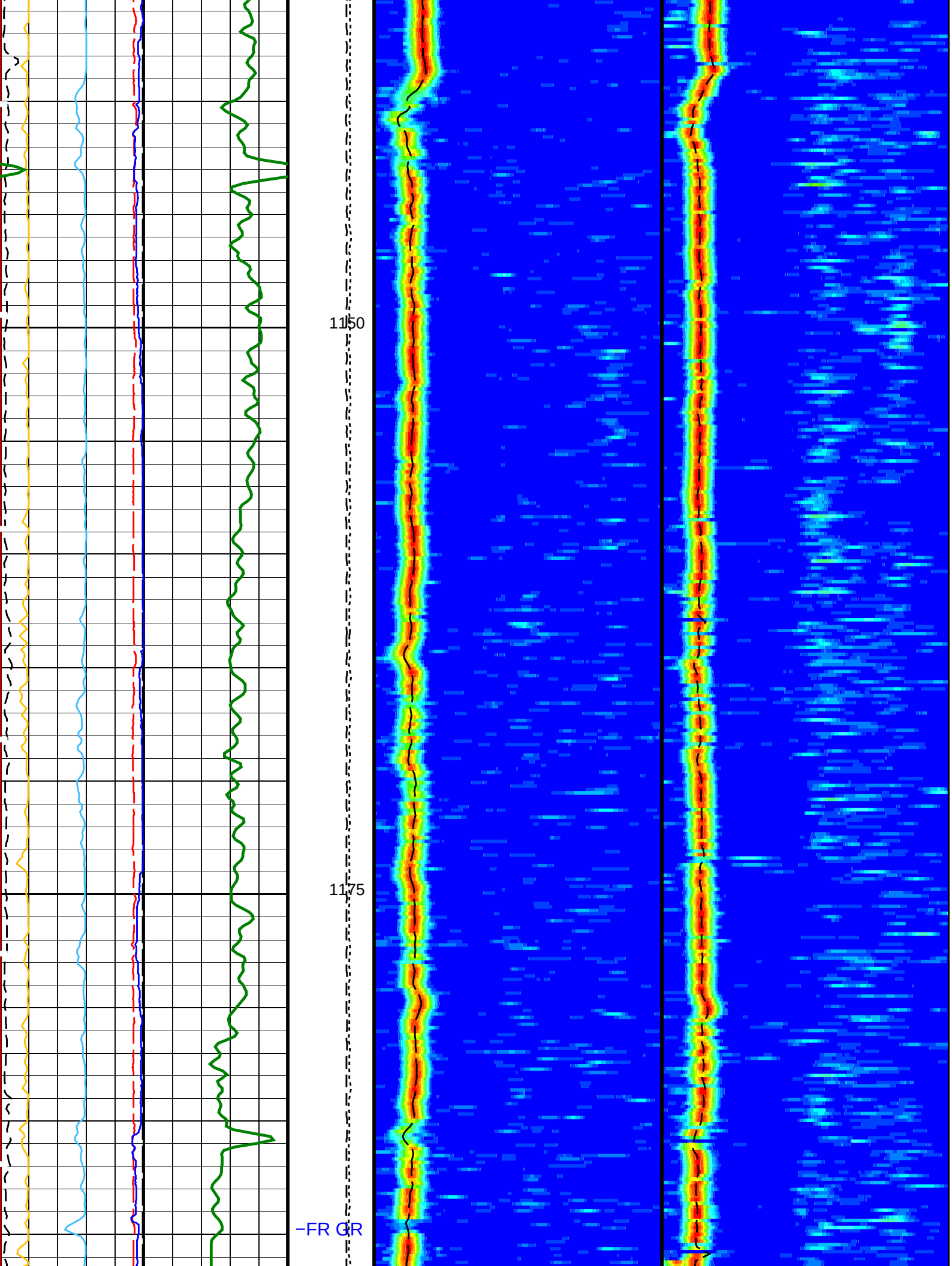

875
900

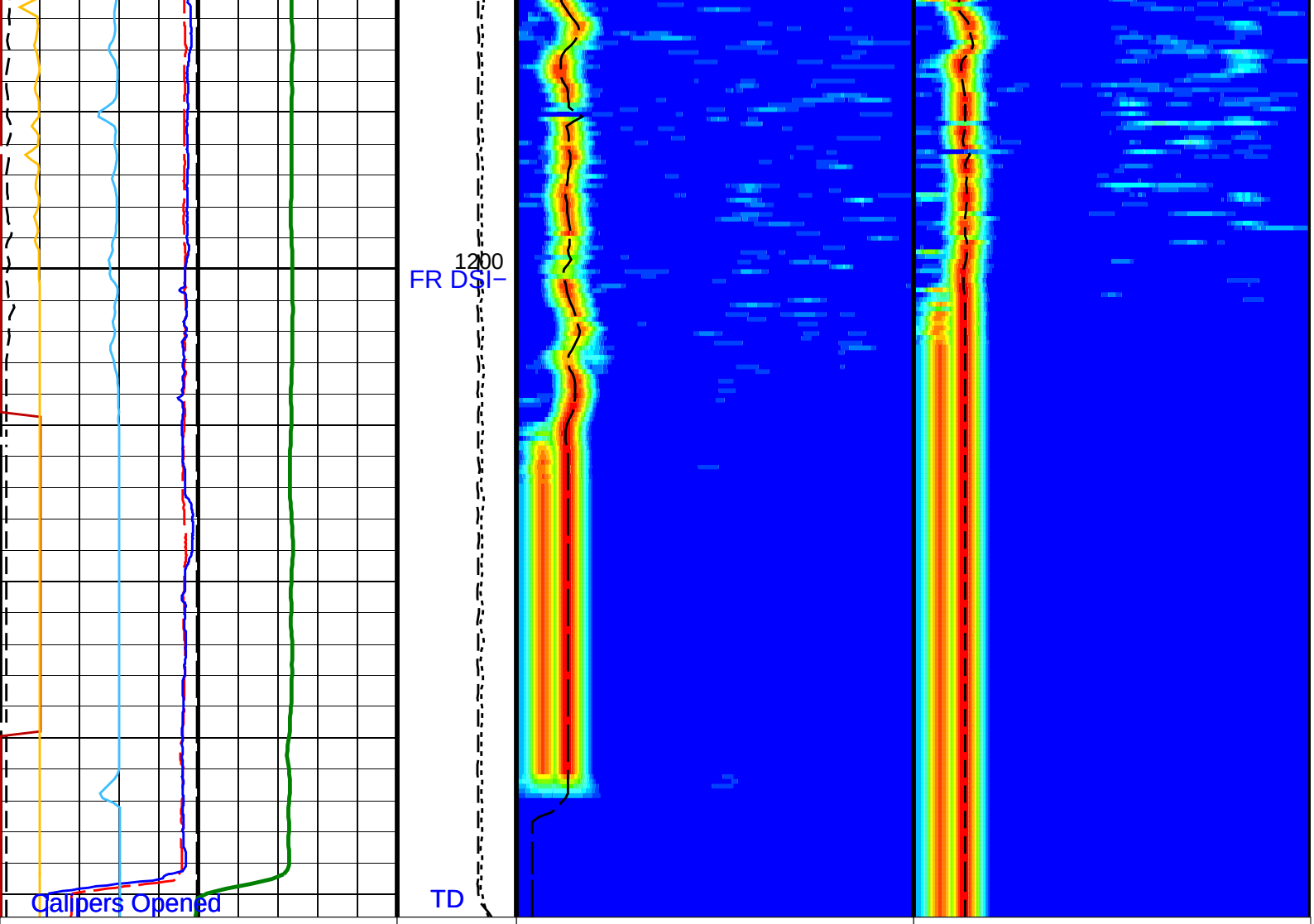

925
950


975
1000


1025
1050
1075


1100
TENS
HSGR
CHT2
CHR2
DT2T
DT2R
WCI2
WFG2
CDF
1125
C2
C1
BS


1150
1175
−FR GR



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Shear / TA − Upper Dipole (DT2T) 40 (US/F) 1600
Caliper 1 (C1) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 5000 0	Min Amplitude Max Tr.Array U.Dipole Slow Proj. CVDL (SPT2) 40 (US/F) 1600
Caliper 2 (C2) 0 (IN) 20		
SAM2 Waveform Gain (WFG2) 0 (−−−−) 1000		
Waveform Data Copy Indicator 2 − Upper Dipole (WCI2) 0 (−−−−) 10		
Peak Coherence / RA − Upper Dipole (CHR2) 0 (−−−−) 10		
Peak Coherence / TA − Upper Dipole (CHT2) −2 (−−−−) 8		
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100		

Delta−T Shear / RA − Upper Dipole (DT2R) 40 (US/F) 1600	
Min Amplitude Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) 40 (US/F) 1600	

Uplog #2

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST−B: Dipole Shear Imager − B			
BHS	Borehole Status	OPEN	
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	1600	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	
GCSE	Generalized Caliper Selection	C1	
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	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	1600	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
WFM2	Waveform Mode 2	W1	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00261849	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.966109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970636	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:59

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59

Company: International Ocean Discovery Program Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59	1220.7 M	561.1 M

OP System Version: 19C0−187

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

Changed Parameter Summary

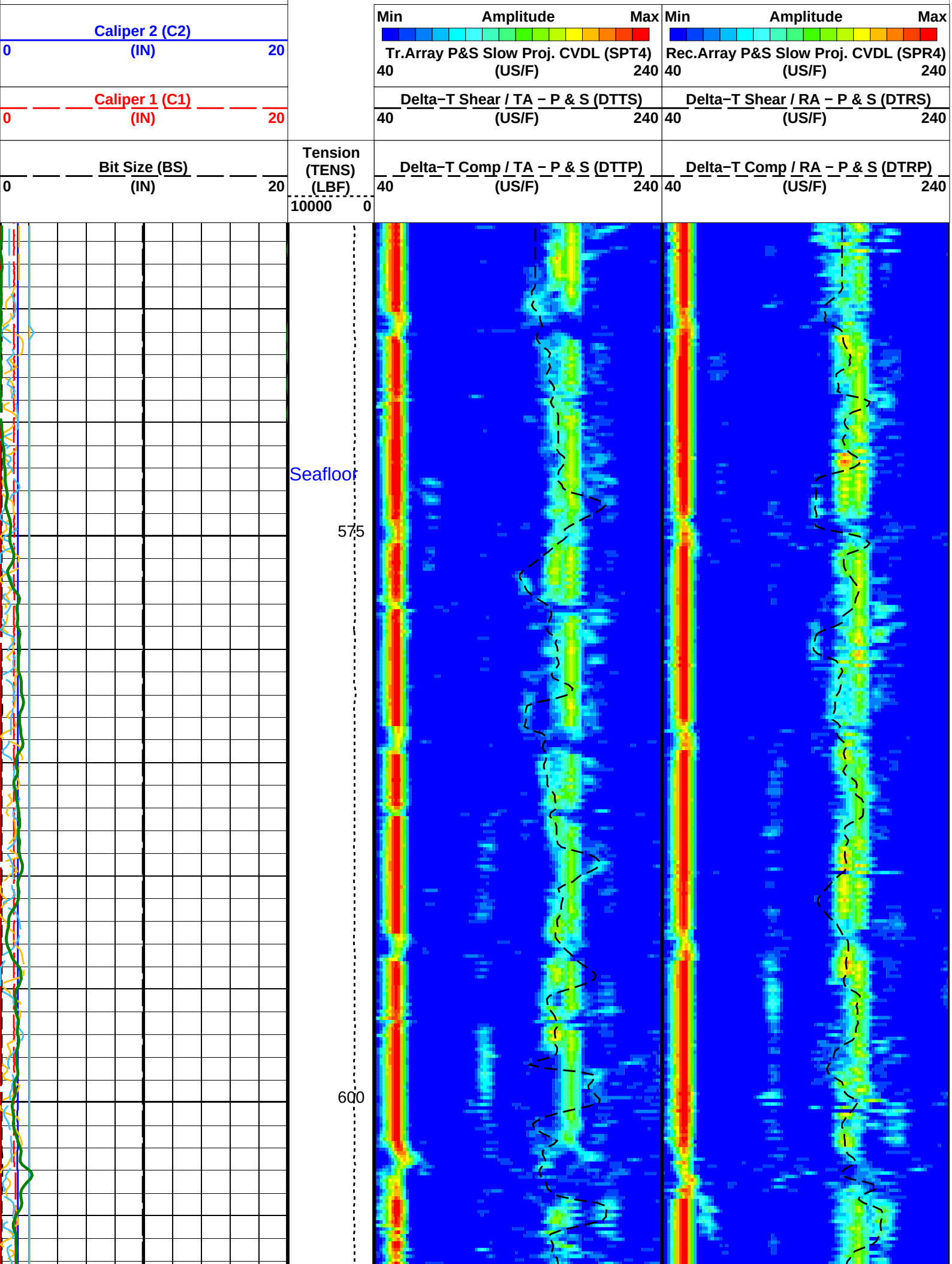
DLIS Name	New Value	Previous Value	Depth & Time
COLL	140 US/F	60 US/F	804.7 20:06:17

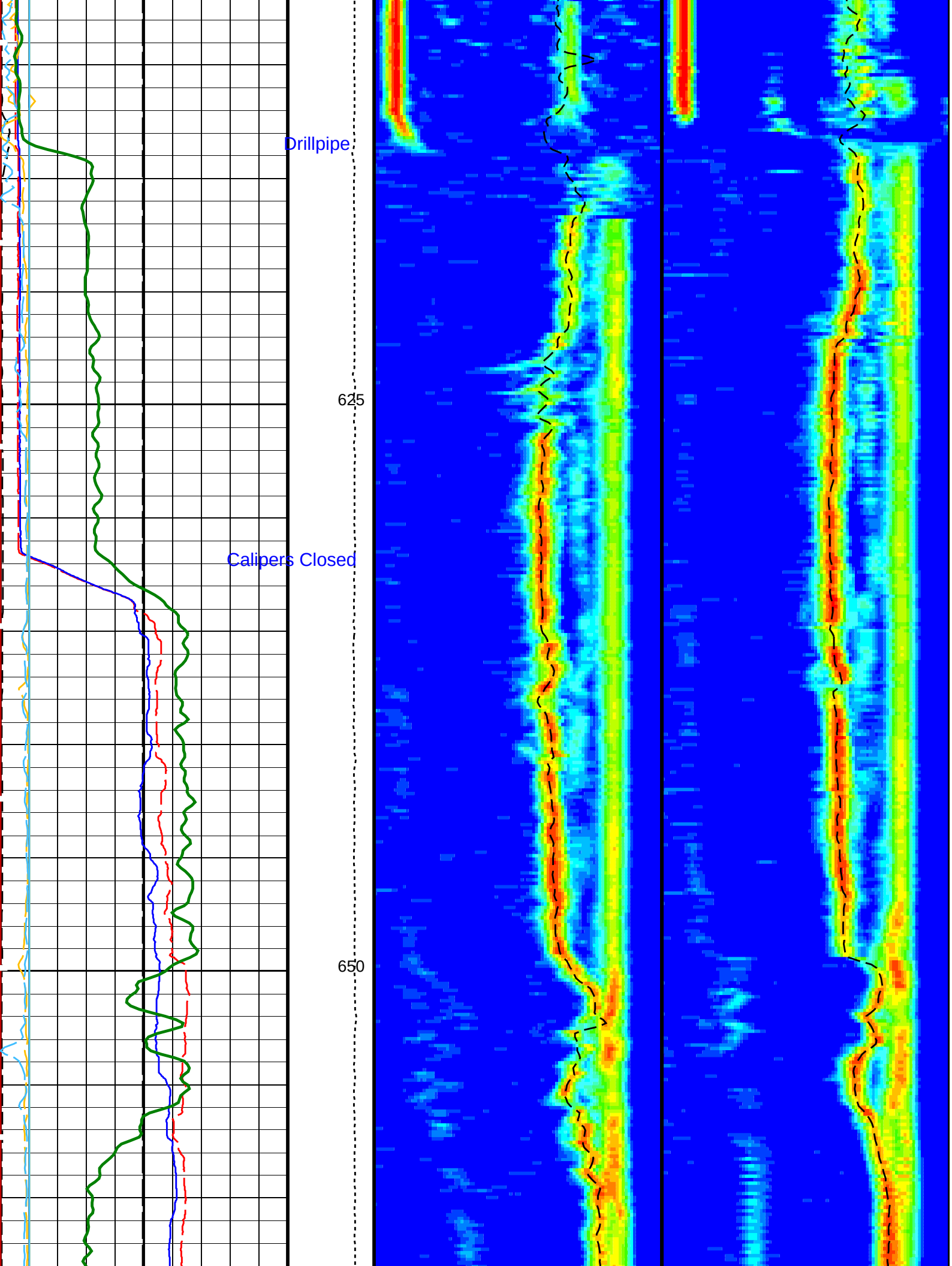
PIP SUMMARY

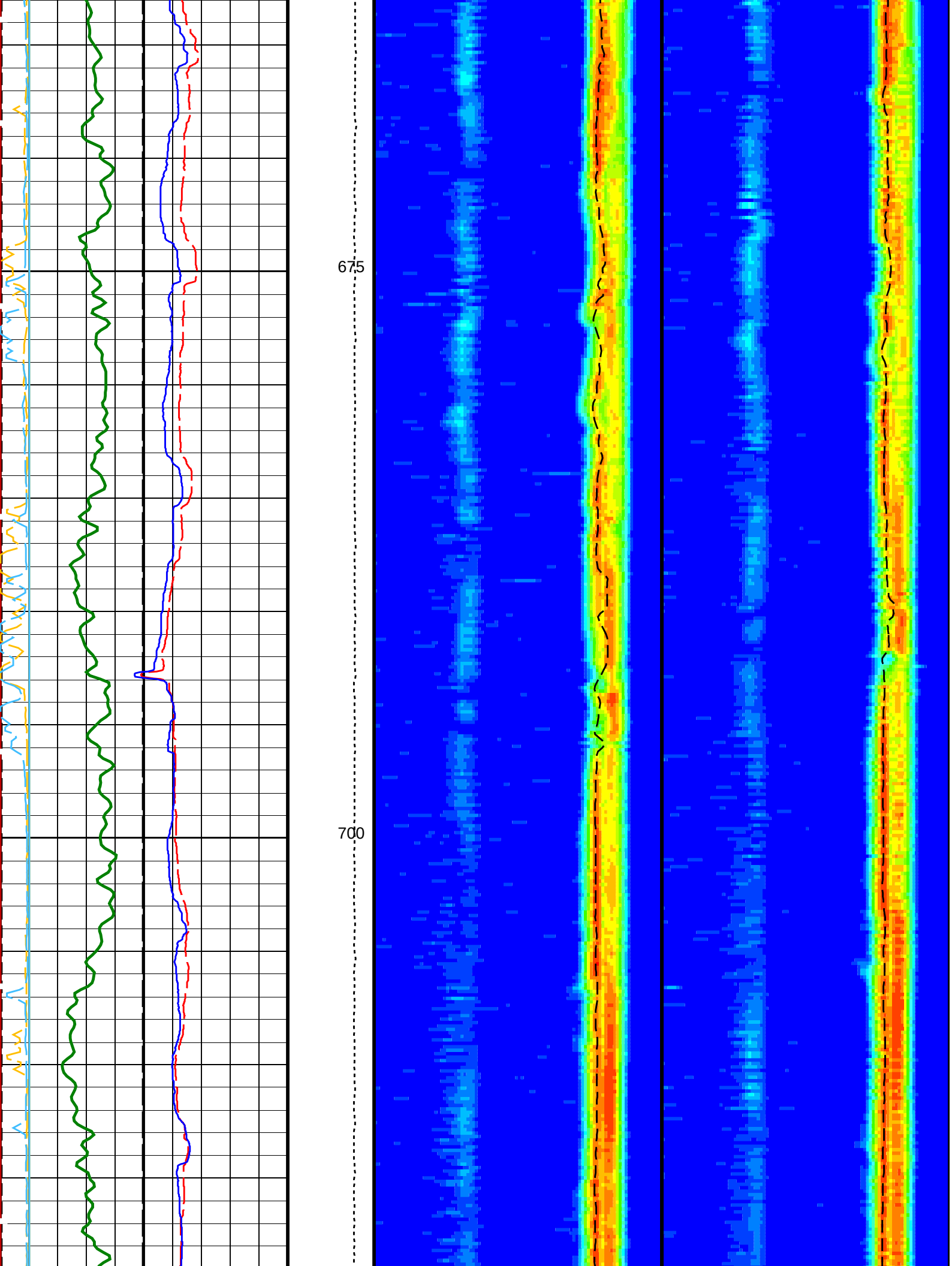
Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Peak Coherence / TA − P & S Shear (CHTS)		
−1	(−−−−)	9
Peak Coherence / RA − P & S Shear (CHRS)		
−1	(−−−−)	9
Peak Coherence / TA − P & S Comp (CHTP)		
0	(−−−−)	10
Peak Coherence / RA − P & S Comp (CHRP)		
0	(−−−−)	10
Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)		
0	(−−−−)	10
SAM4 Waveform Gain (WFG4)		
0	(−−−−)	1000

Uplog 2


Caliper 2 (C2)
0 (IN) 20
Caliper 1 (C1)
0 (IN) 20
Bit Size (BS)
0 (IN) 20
Tension (TENS) (LBF)
10000 0
Min Amplitude Max
Tr.Array P&S Slow Proj. CVDL (SPT4)
40 (US/F) 240
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240
Delta−T Shear / TA − P & S (DTTS)
40 (US/F) 240
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240
Delta−T Comp / TA − P & S (DTTP)
40 (US/F) 240
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240
Seafloor
575
600


Drillpipe
625
Calipers Closed
650


675
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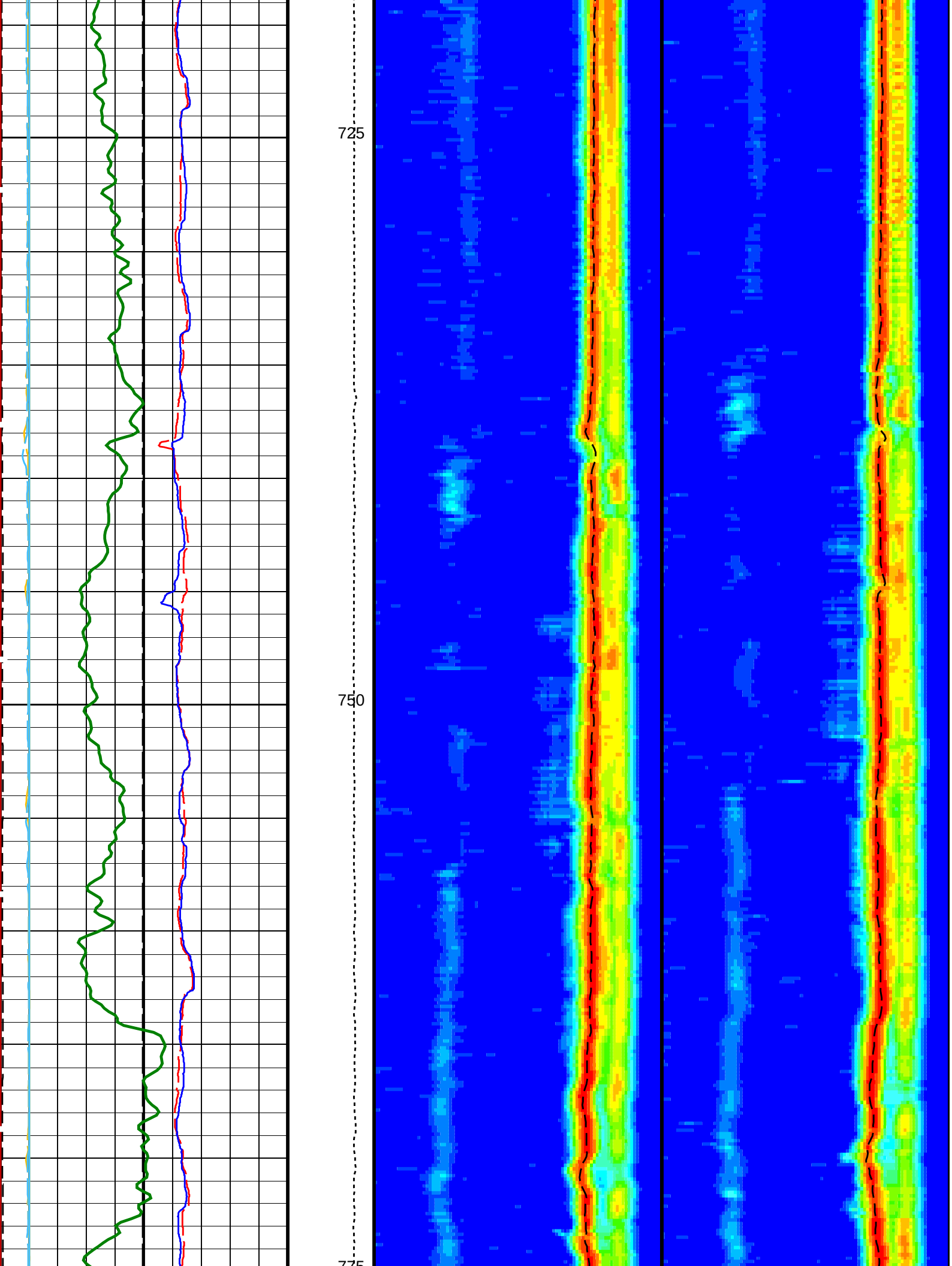
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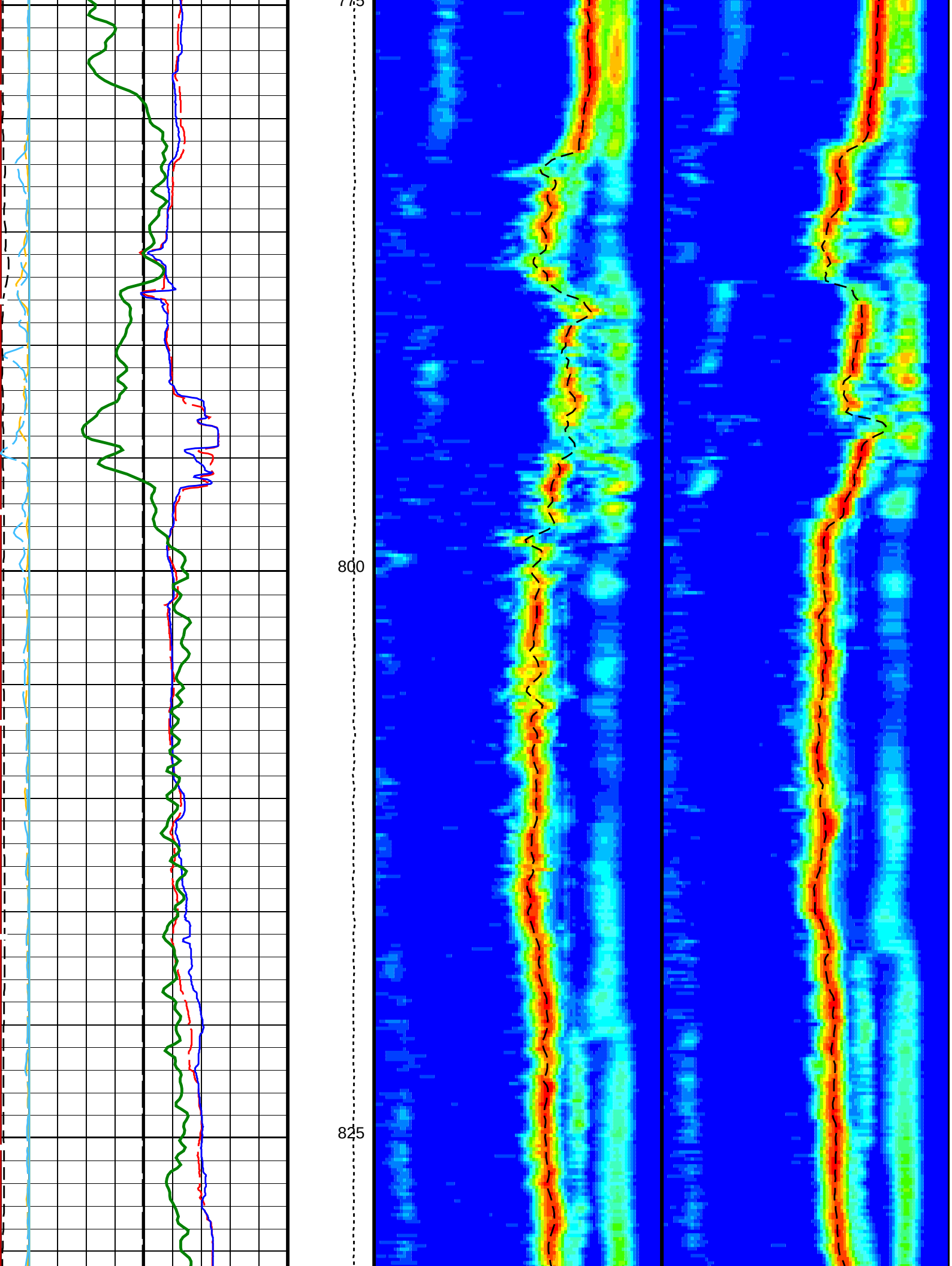
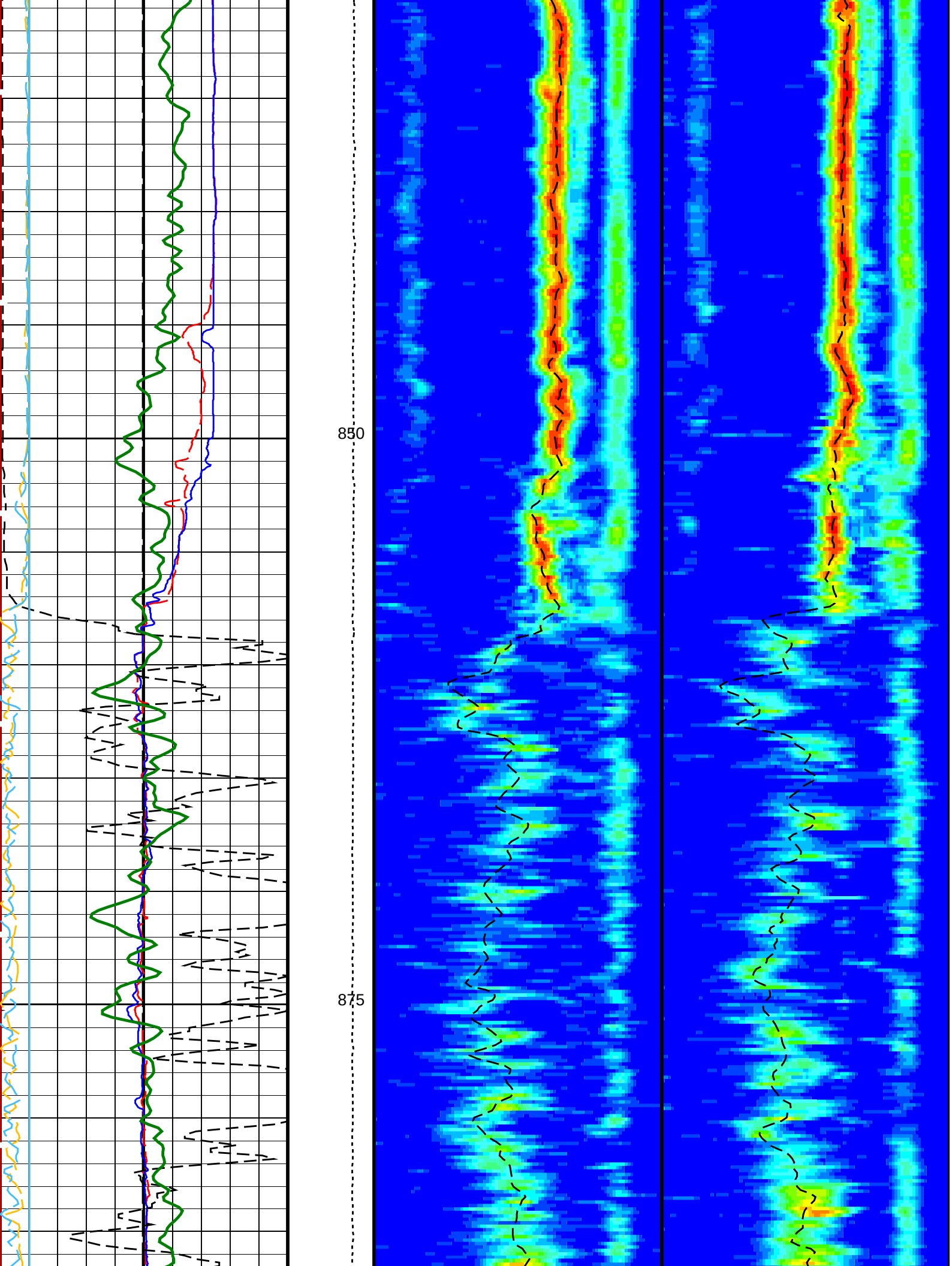
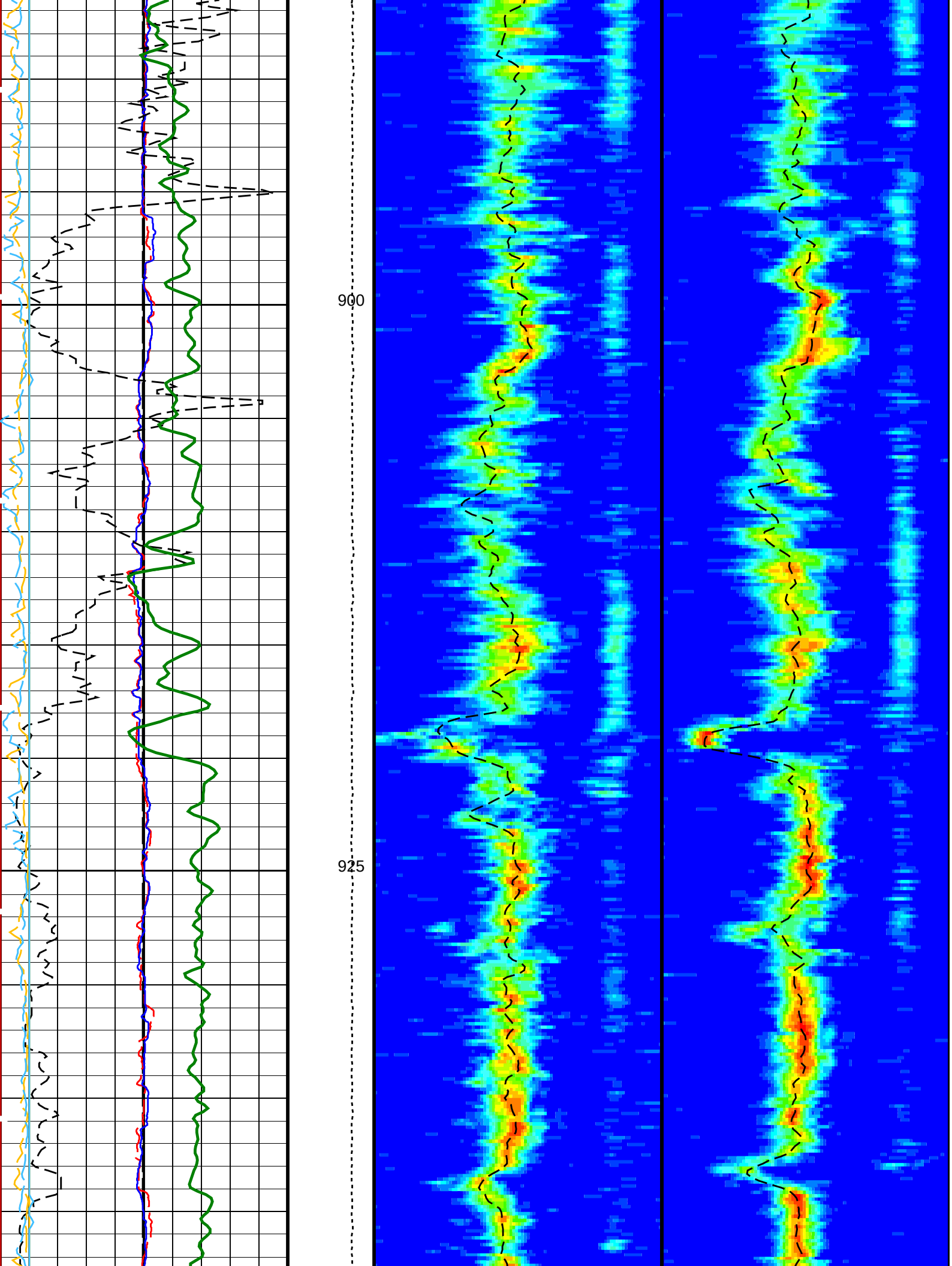
750
775


775
800
825


850
875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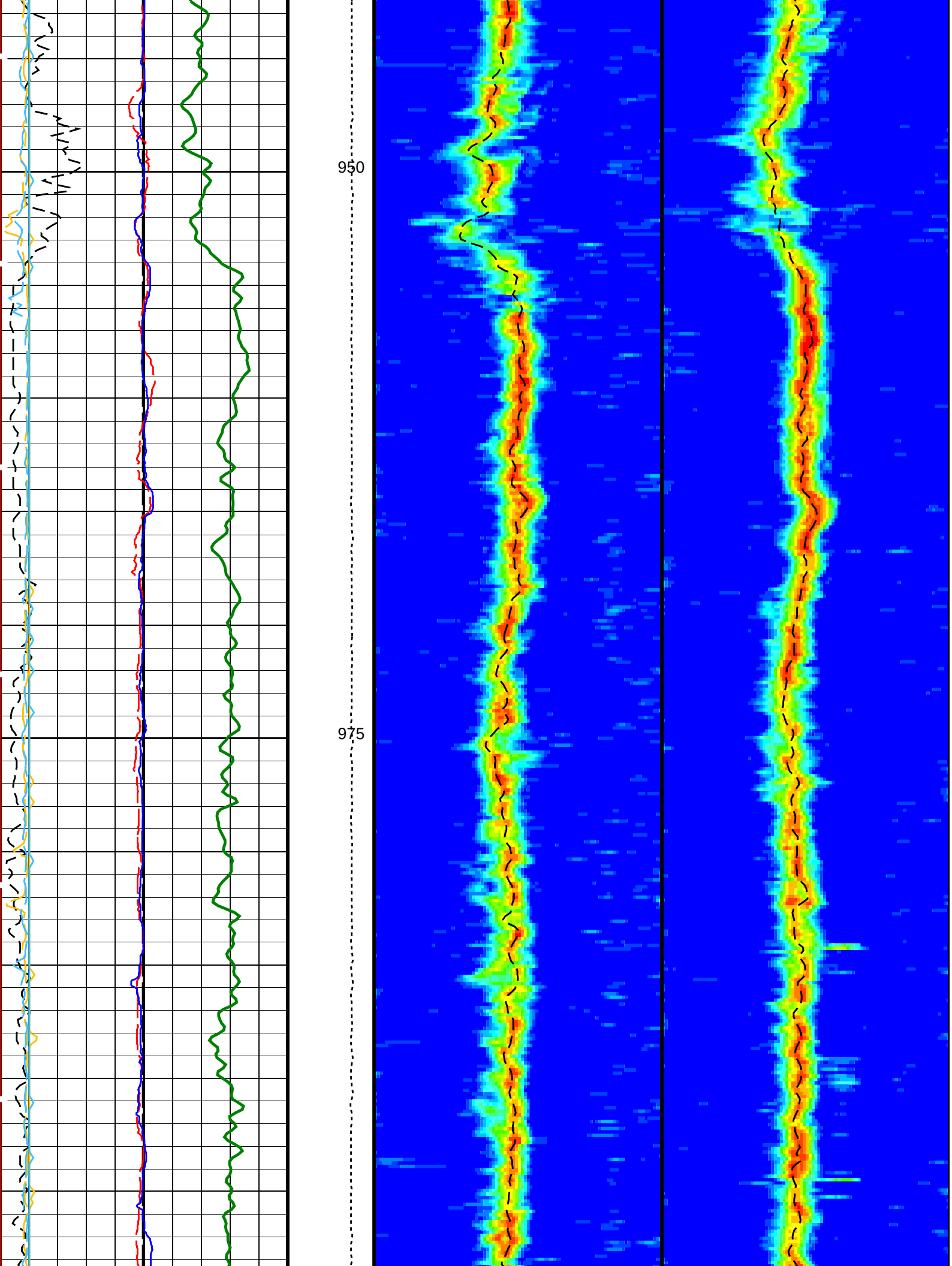
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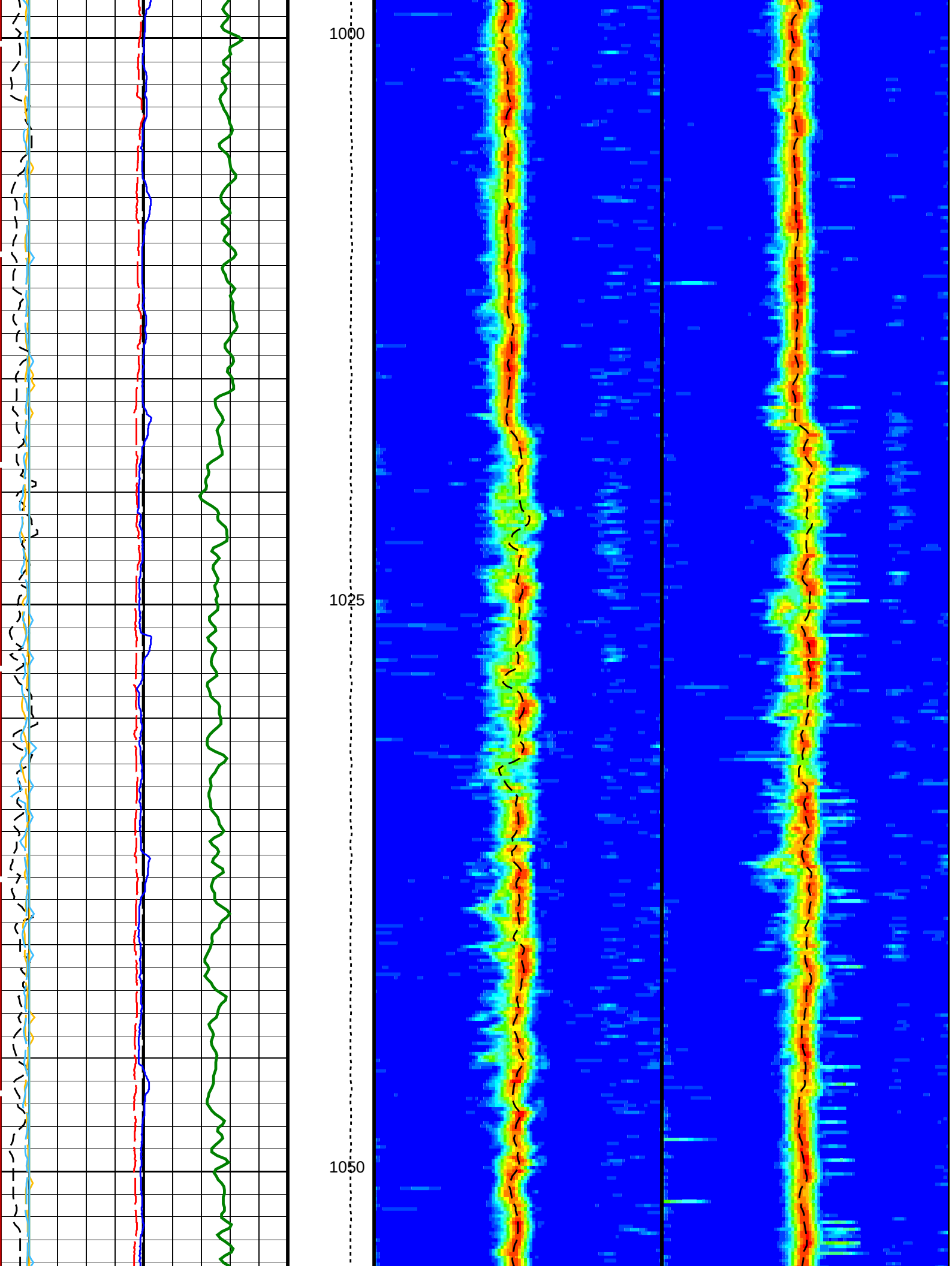
975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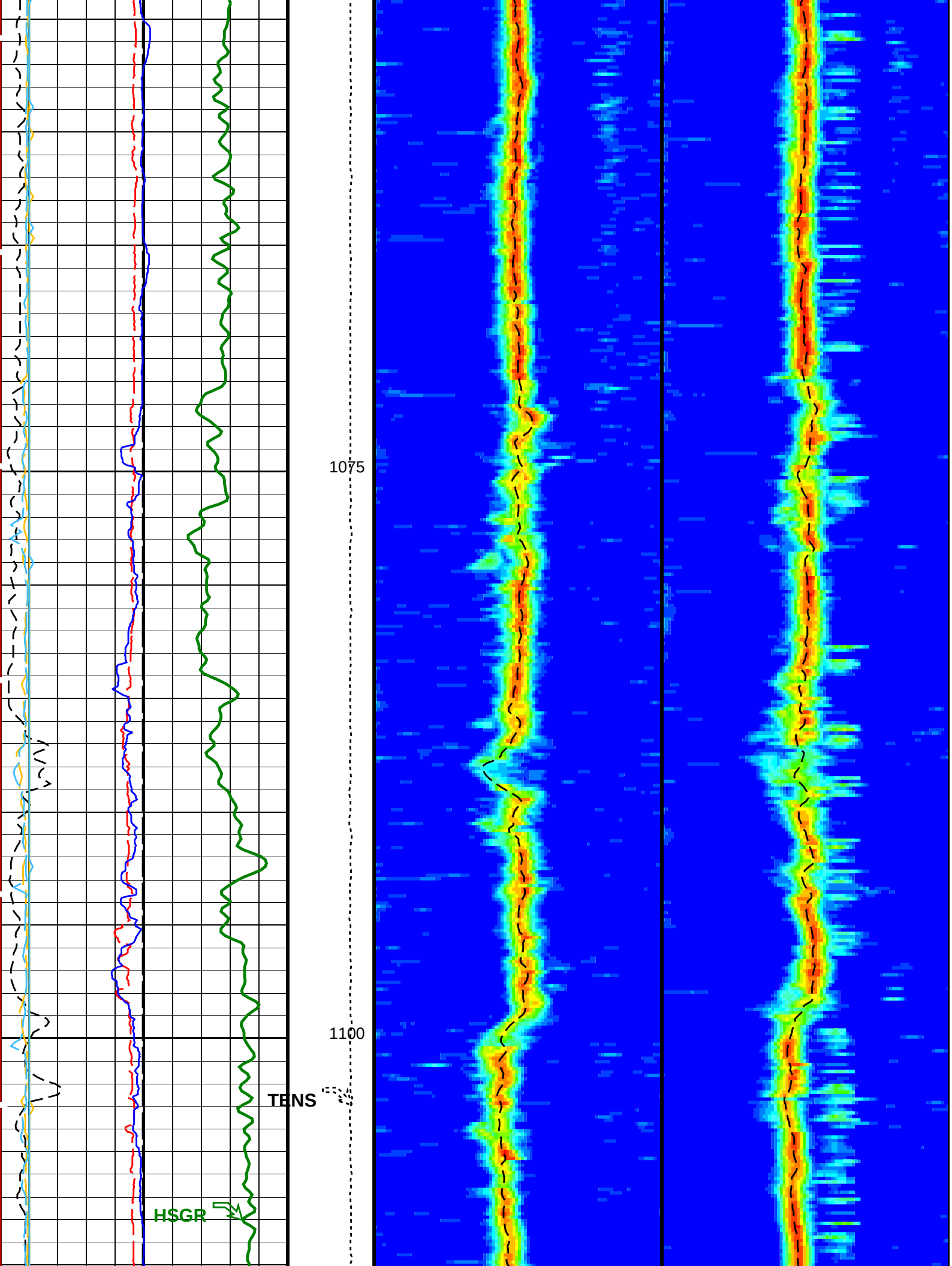
1025
1050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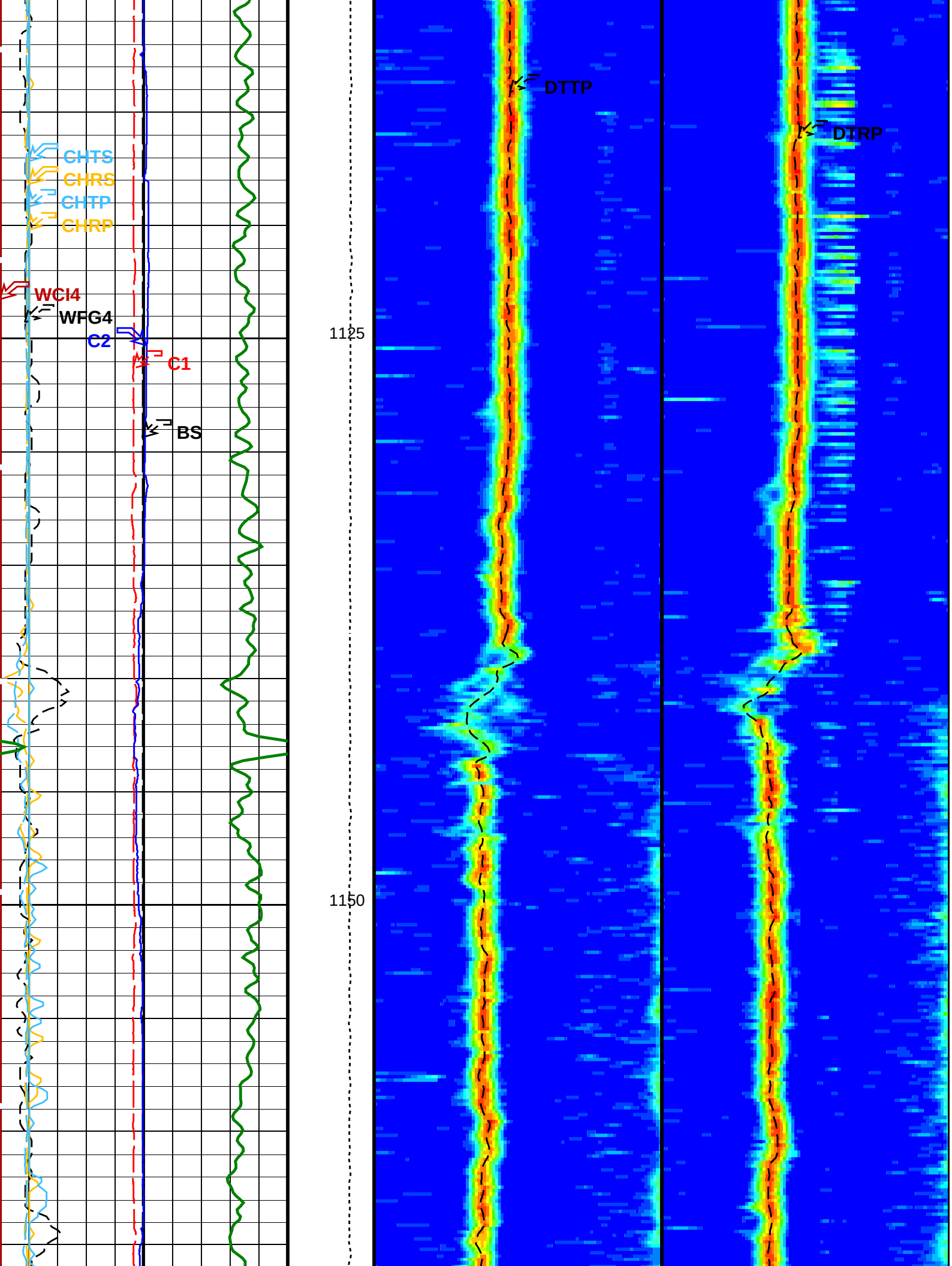
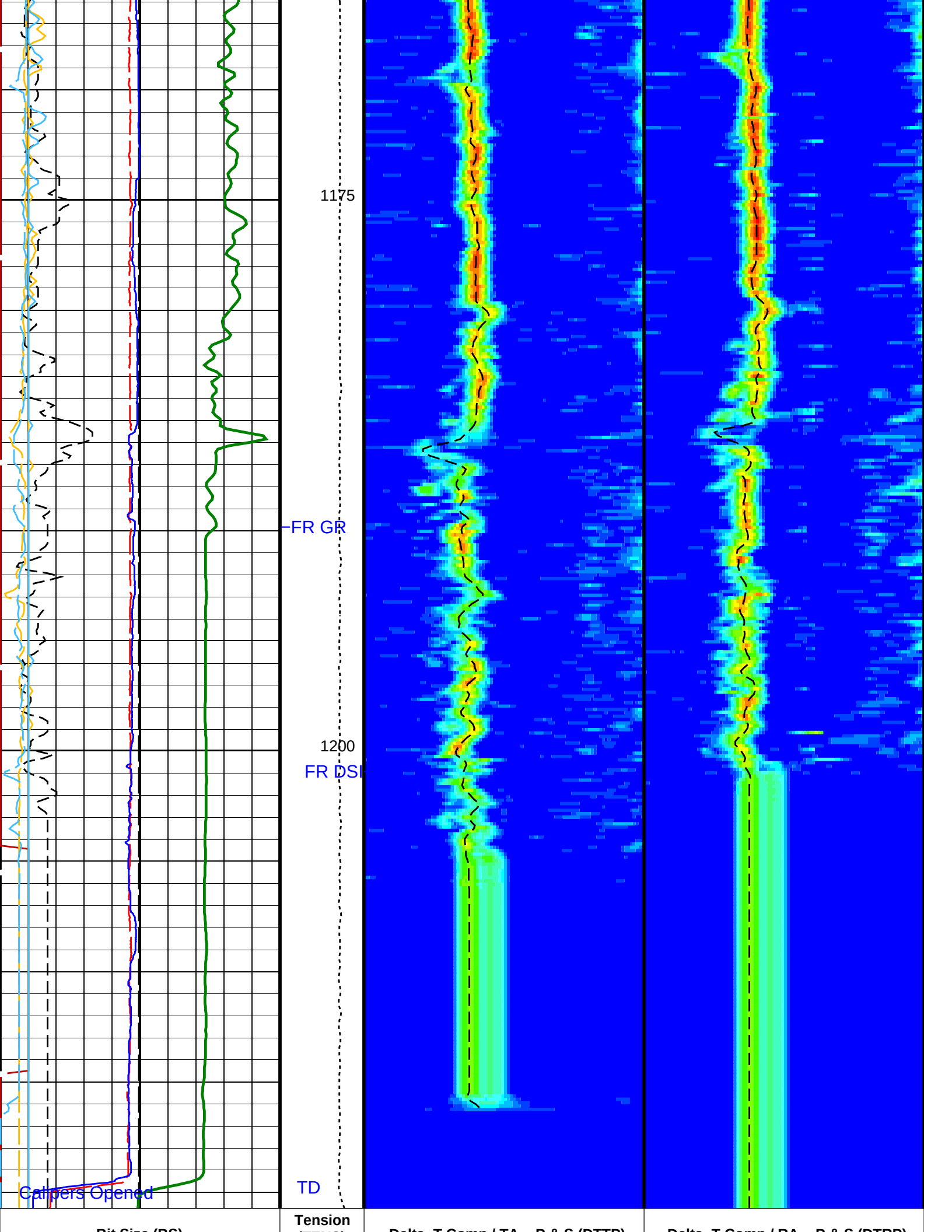
1100
TENS
HSGR


CHTS
CHRS
CHTP
CHRP
WCI4
WFG4
C2
C1
BS
1125
1150
DTTP
DTRP


1175
FR GR
1200
FR DSI
TD
Calipers Opened
Tension

Bit Size (BS)	(TENS)	Delta−T Comp / TA − P & S (DTTP)	Delta−T Comp / RA − P & S (DTRP)
0 (IN) 20	(LBF) 10000 0	40 (US/F) 240	40 (US/F) 240
Caliper 1 (C1) 0 (IN) 20		Delta−T Shear / TA − P & S (DTTS) 40 (US/F) 240	Delta−T Shear / RA − P & S (DTRS) 40 (US/F) 240
Caliper 2 (C2) 0 (IN) 20		Min Amplitude Max Tr.Array P&S Slow Proj. CVDL (SPT4) 40 (US/F) 240	Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240
SAM4 Waveform Gain (WFG4) 0 (−−−−) 1000			
Waveform Data Copy Indicator 4 − Monopole P&S (WCI4) 0 (−−−−) 10			
Peak Coherence / RA − P & S Comp (CHRP) 0 (−−−−) 10			
Peak Coherence / TA − P & S Comp (CHTP) 0 (−−−−) 10			
Peak Coherence / RA − P & S Shear (CHRS) −1 (−−−−) 9			
Peak Coherence / TA − P & S Shear (CHTS) −1 (−−−−) 9			
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100			

Uplog 2

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	60	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	60	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	202	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	205	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character − Monopole P&S	DYNAMIC	
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	EVEN	
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	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	239	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	
WFM4	Waveform Mode 4	W1	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00261849	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.966109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970636	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:59

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59

Company: International Ocean Discovery Program Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51	1220.7 M	674.2 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Peak Coherence / TA − Upper Dipole (CHT2)
−2 (−−−−) 8

Peak Coherence / RA − Upper Dipole (CHR2)
0 (−−−−) 10

Waveform Data Copy Indicator 2 − Upper Dipole (WCI2)
0 (−−−−) 10

SAM2 Waveform Gain (WFG2)
0 (−−−−) 1000

Caliper 2 (C2)
0 (IN) 20

Uplog #1

Caliper 1 (C1)
0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)
5000 0

Min Amplitude Max
Tr.Array U.Dipole Slow Proj. CVDL (SPT2)
40 (US/F) 1600

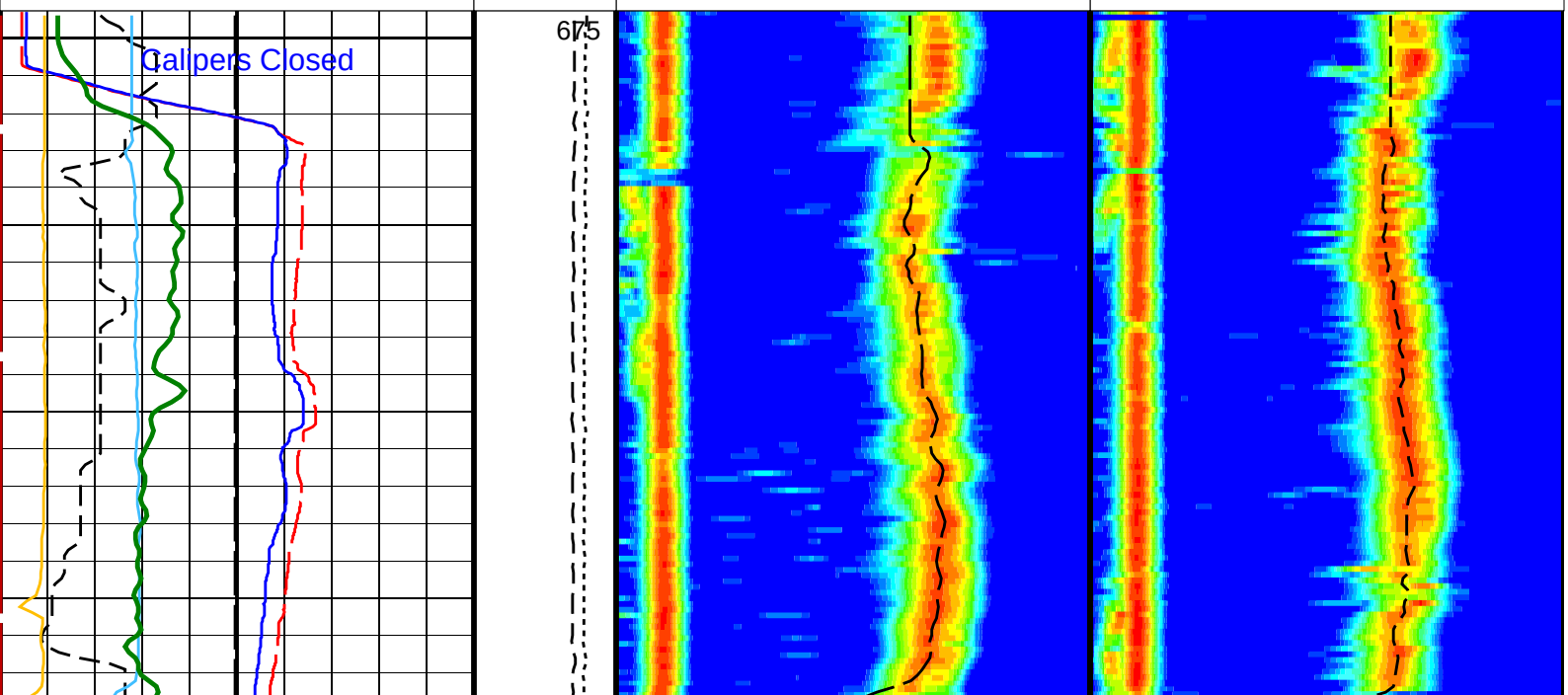
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1600

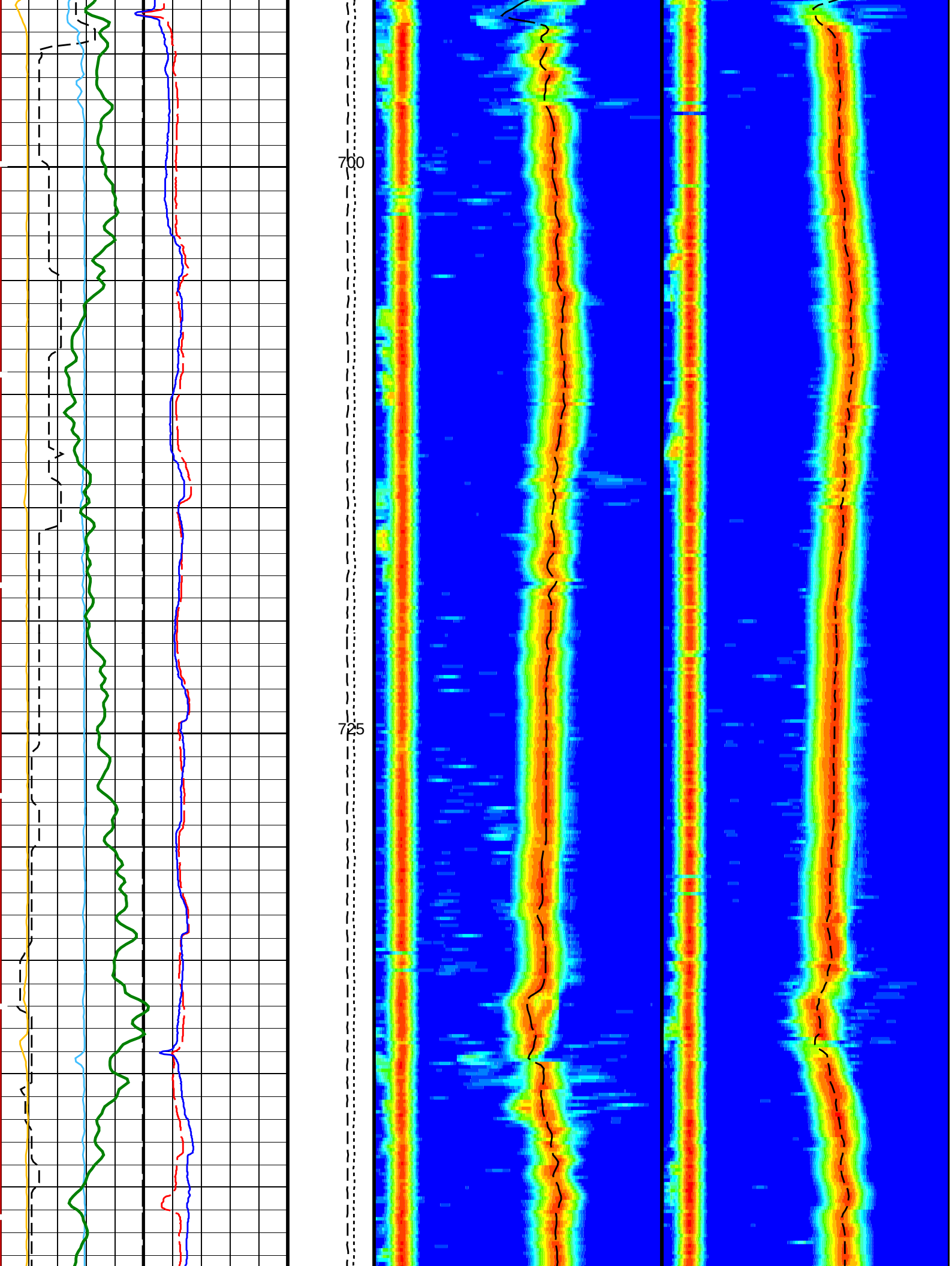
Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

Delta−T Shear / TA − Upper Dipole (DT2T)
40 (US/F) 1600

Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1600

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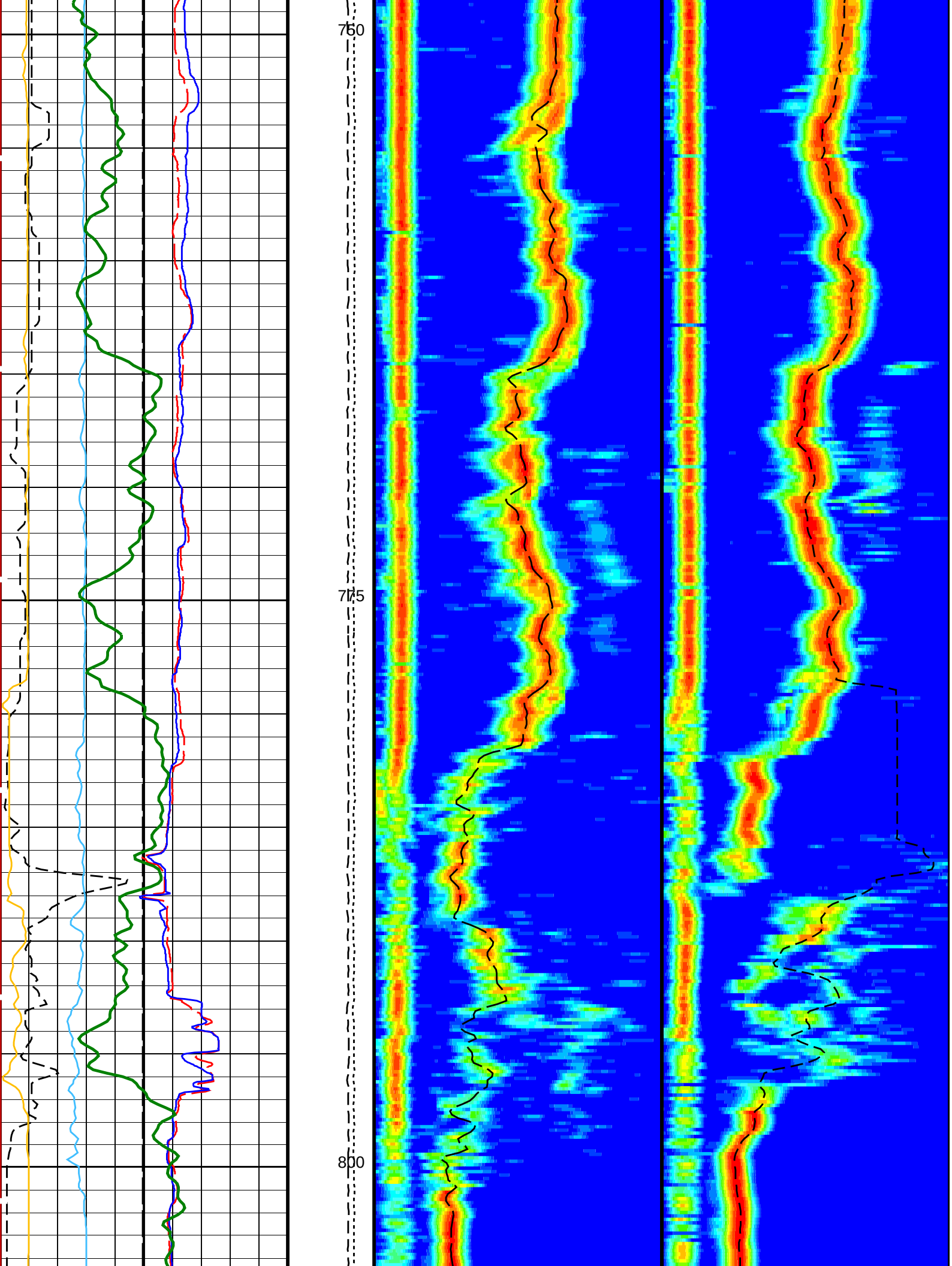
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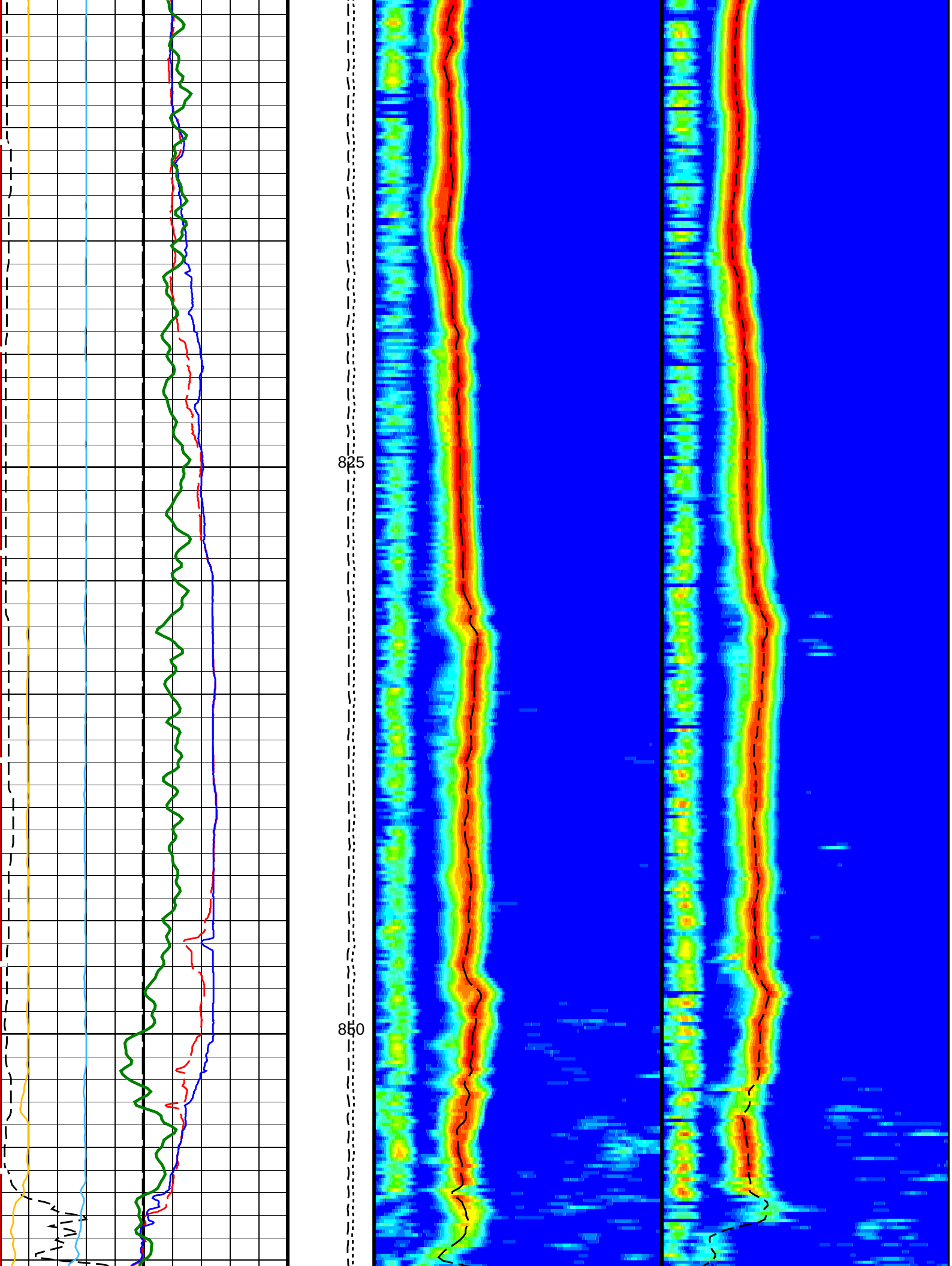
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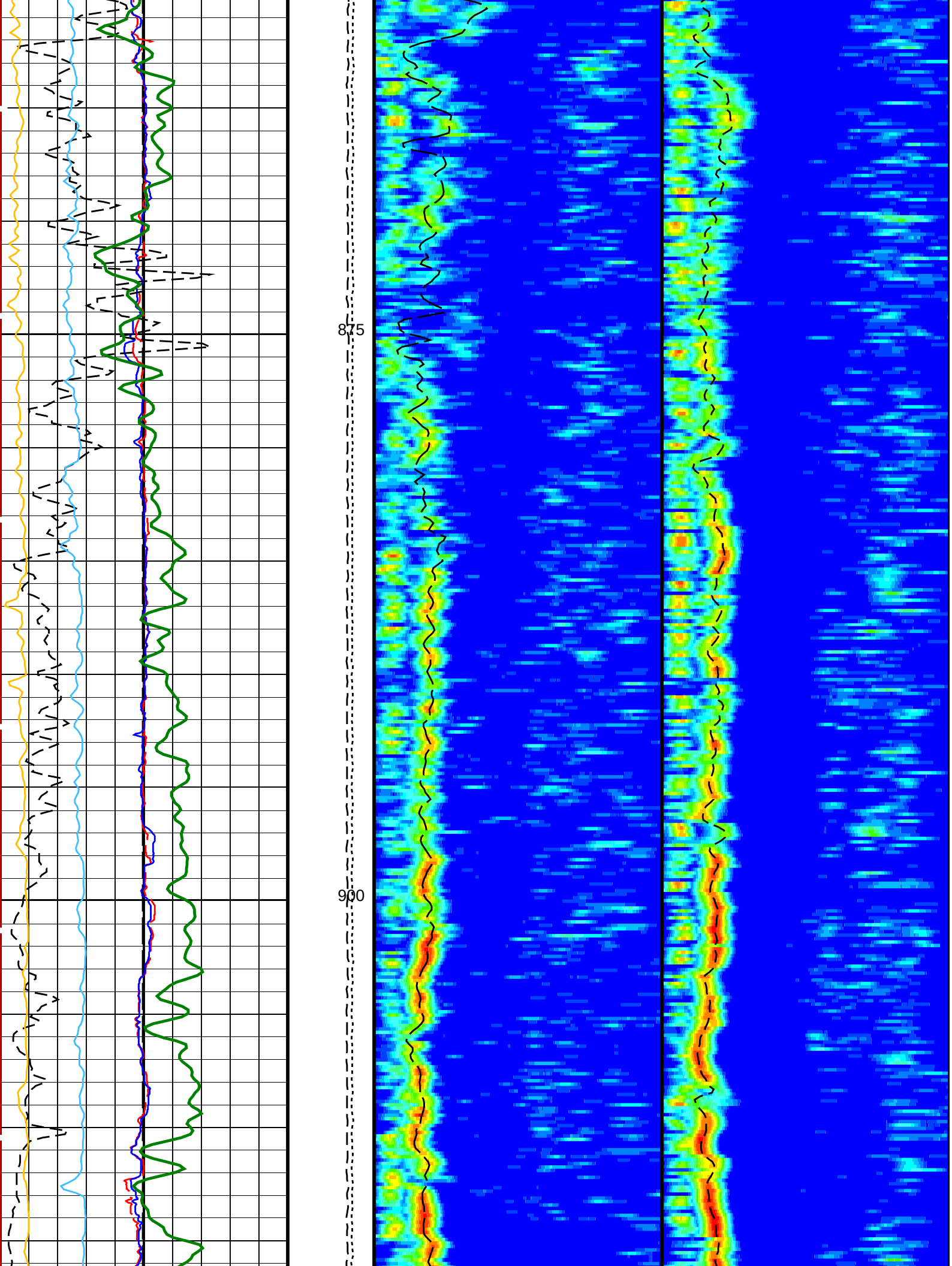
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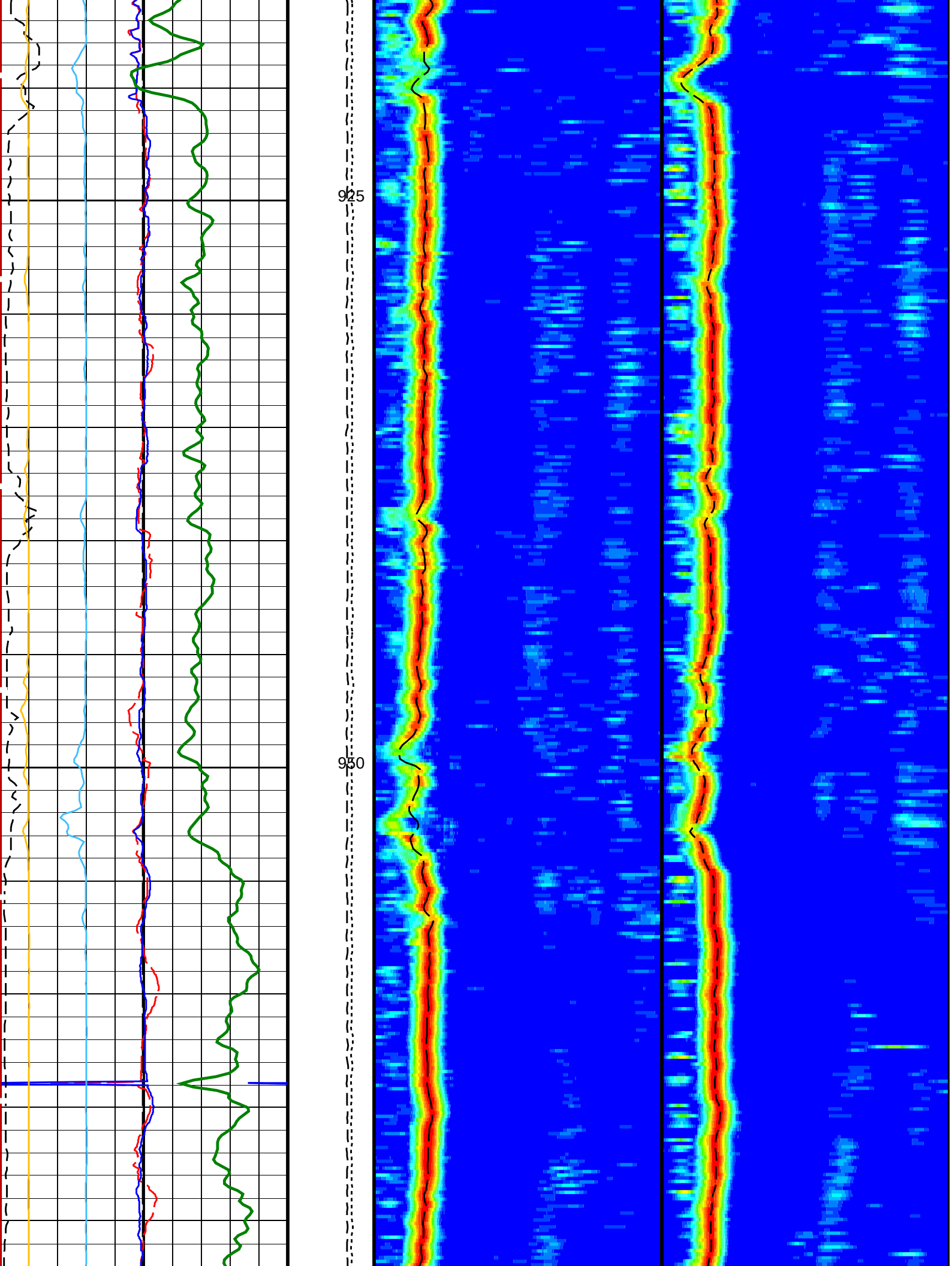
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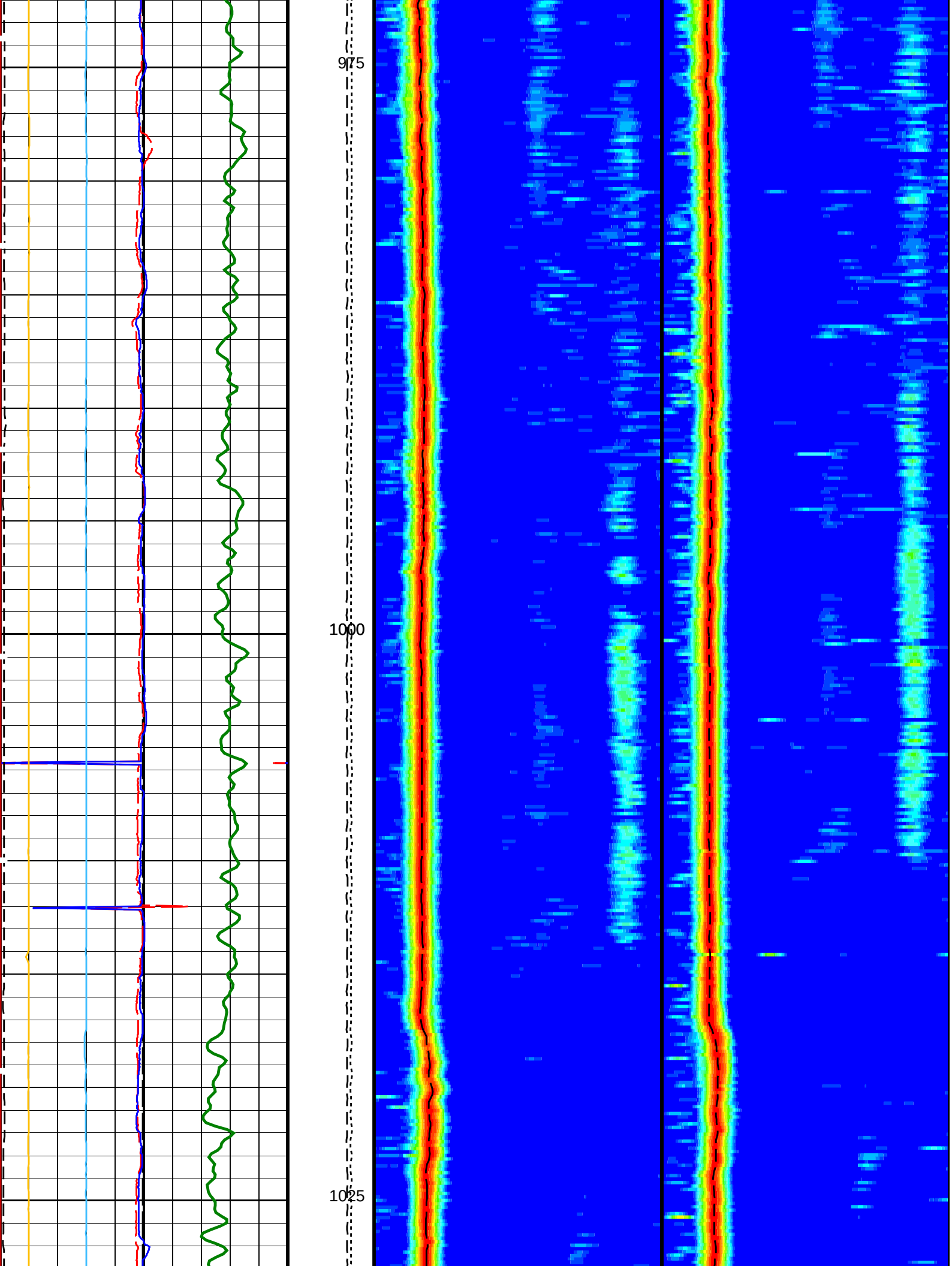
930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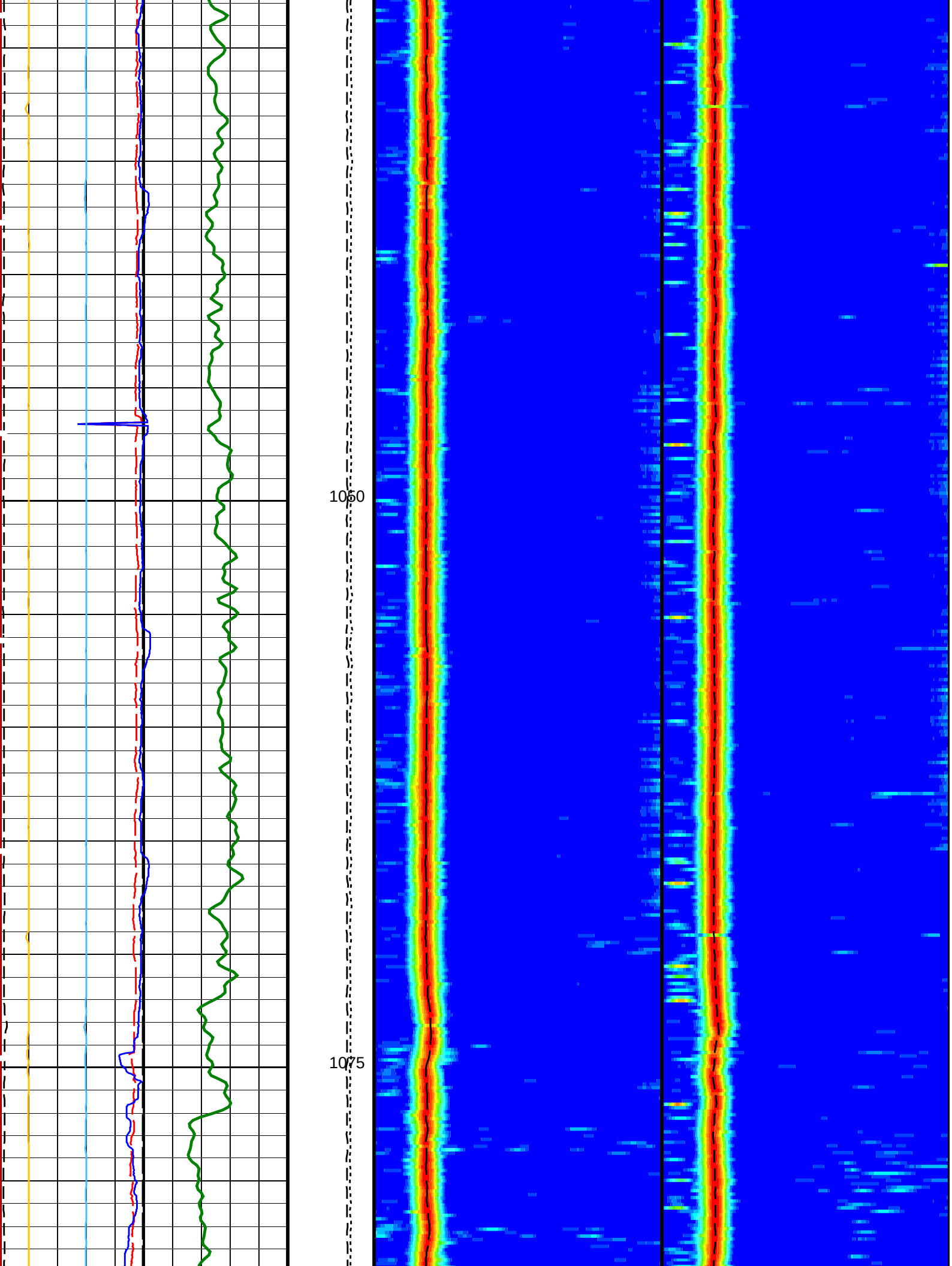
1000
1025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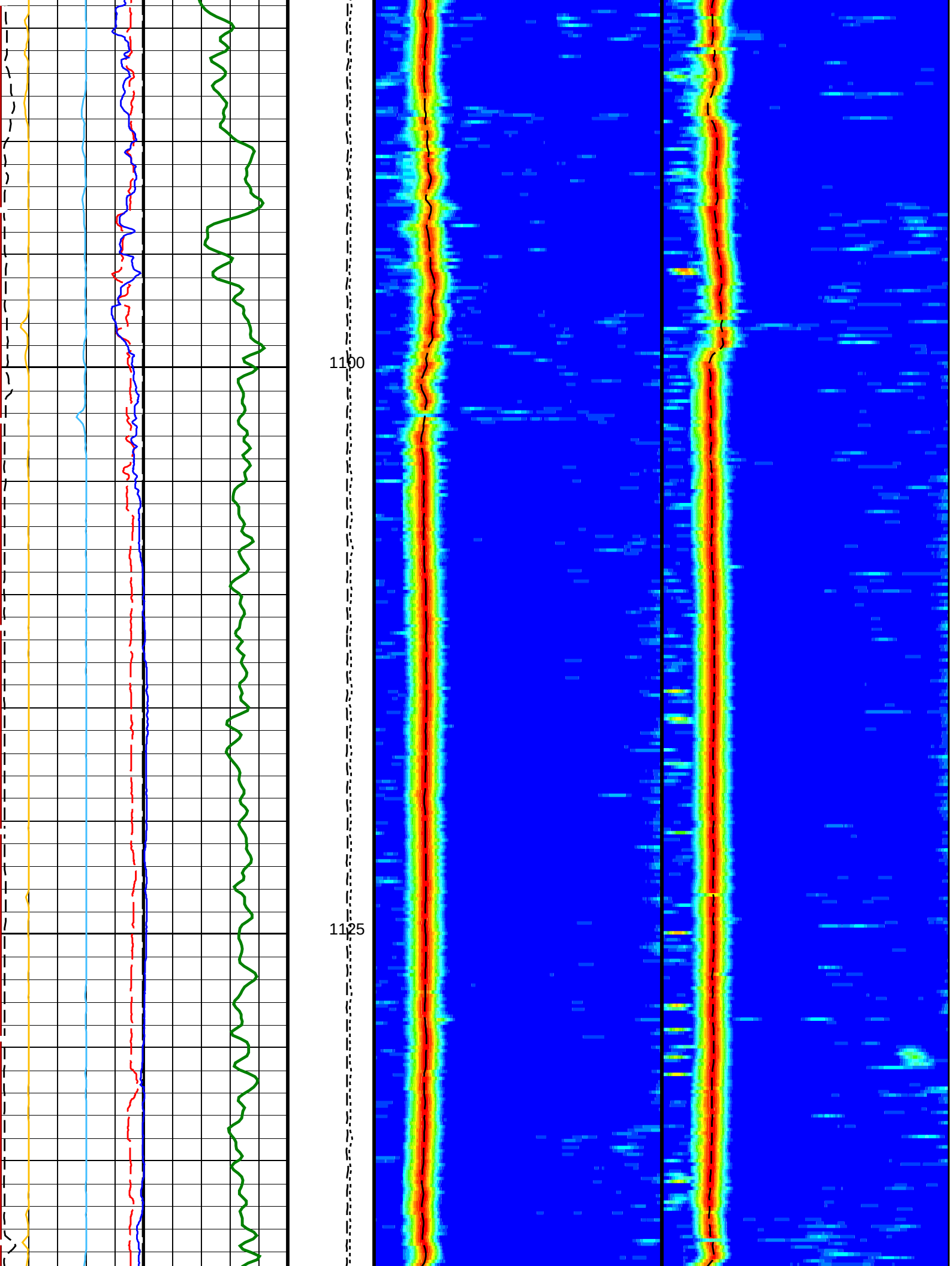
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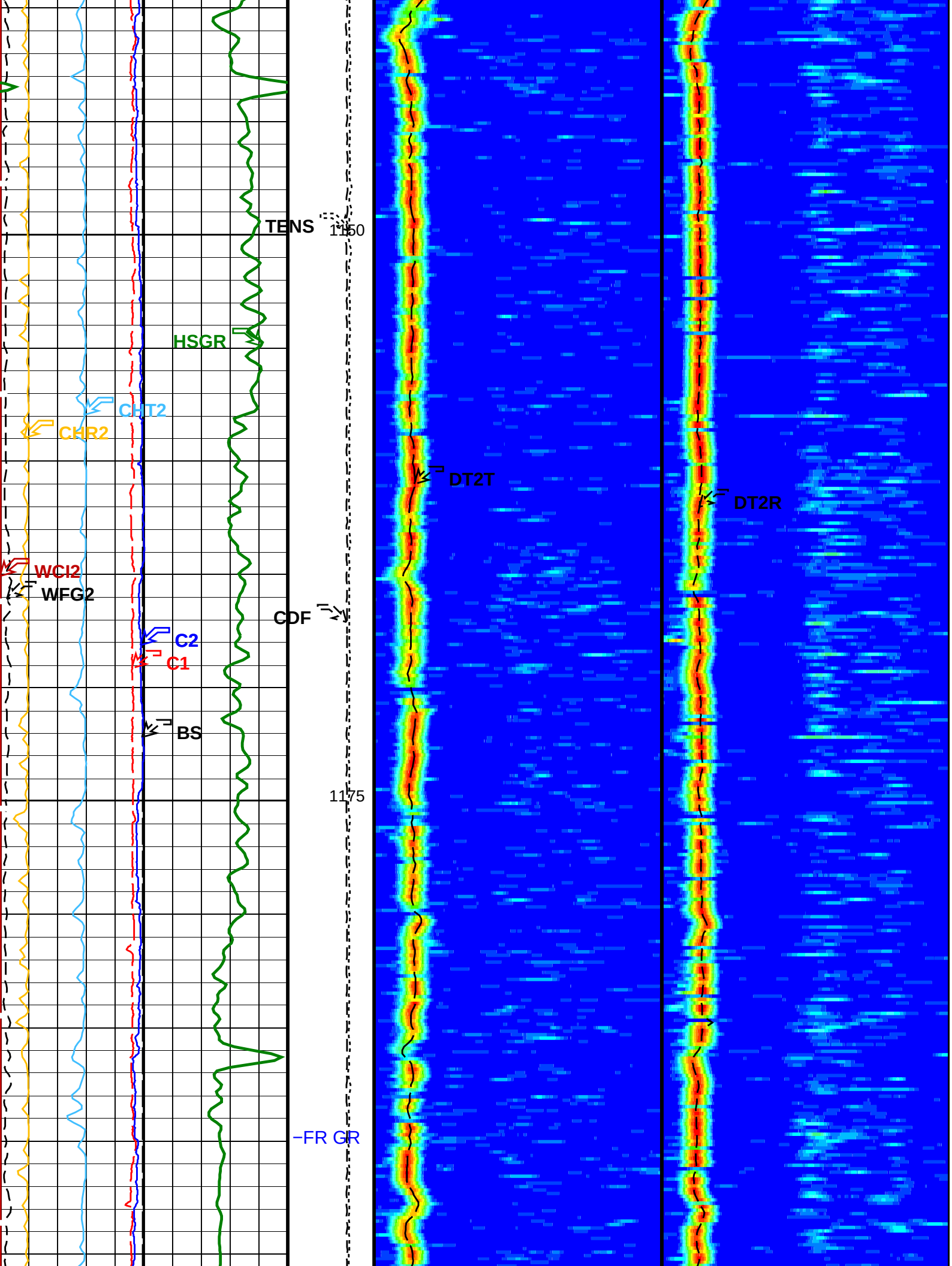
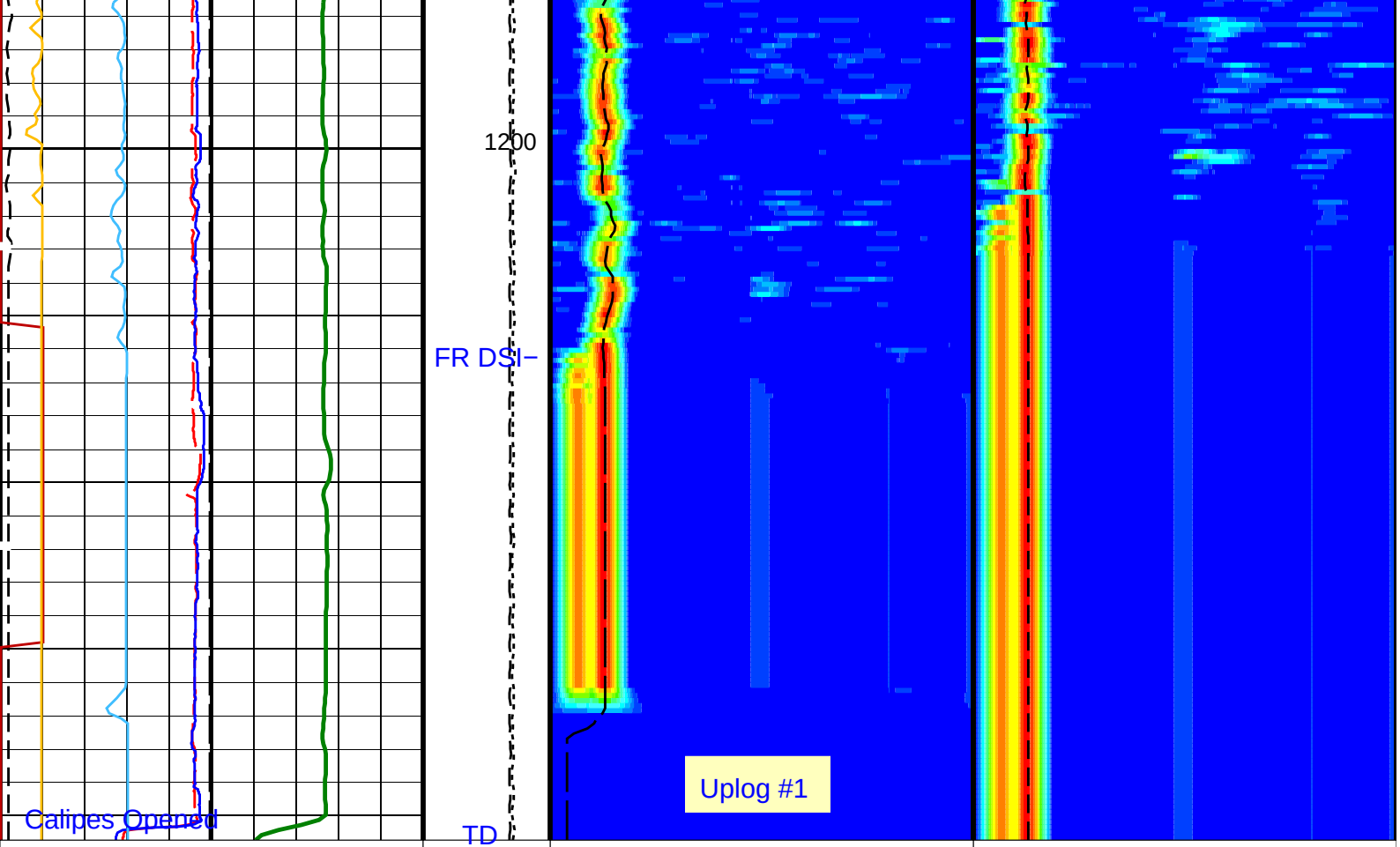

TENS
1150
HSGR
CHT2
CHR2
DT2T
DT2R
WCI2
WFG2
CDF
C2
C1
BS
1175
−FR GR



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Shear / TA − Upper Dipole (DT2T) 40 (US/F) 1600	Delta−T Shear / RA − Upper Dipole (DT2R) 40 (US/F) 1600
Caliper 1 (C1) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 5000 0	Min Amplitude Max Tr.Array U.Dipole Slow Proj. CVDL (SPT2) 40 (US/F) 1600	Min Amplitude Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) 40 (US/F) 1600
Caliper 2 (C2) 0 (IN) 20			
SAM2 Waveform Gain (WFG2) 0 (−−−−) 1000			
Waveform Data Copy Indicator 2 − Upper Dipole (WCI2) 0 (−−−−) 10			
Peak Coherence / RA − Upper Dipole (CHR2) 0 (−−−−) 10			
Peak Coherence / TA − Upper Dipole (CHT2) −2 (−−−−) 8			
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
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	1600	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	
GCSE	Generalized Caliper Selection	C1	
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	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	1600	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
WFM2	Waveform Mode 2	W1	
	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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.0023129	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.977875	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.985679	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:51

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51

Company: International Ocean Discovery Program

Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51	1220.7 M	674.2 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Peak Coherence / TA − Lower Dipole (CHT1)
−2 (−−−−) 8

Peak Coherence / RA − Lower Dipole (CHR1)
0 (−−−−) 10

Waveform Data Copy Indicator 1 − Lower Dipole (WCI1)
0 (−−−−) 10

SAM1 Waveform Gain (WFG1)
0 (−−−−) 1000

Caliper 2 (C2)
0 (IN) 20

Uplog #1

Caliper 1 (C1)
0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)
5000 0

Min Amplitude Max
Tr.Array L.Dipole Slow Proj. CVDL (SPT1)
40 (US/F) 1600

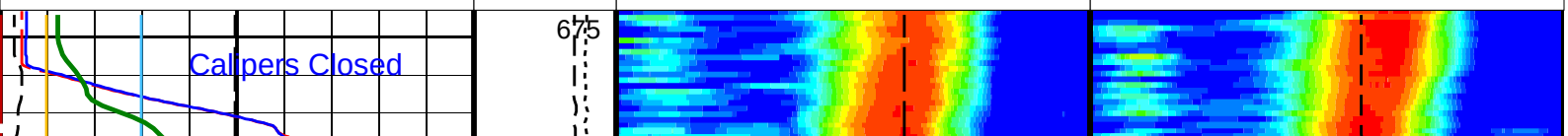
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
40 (US/F) 1600

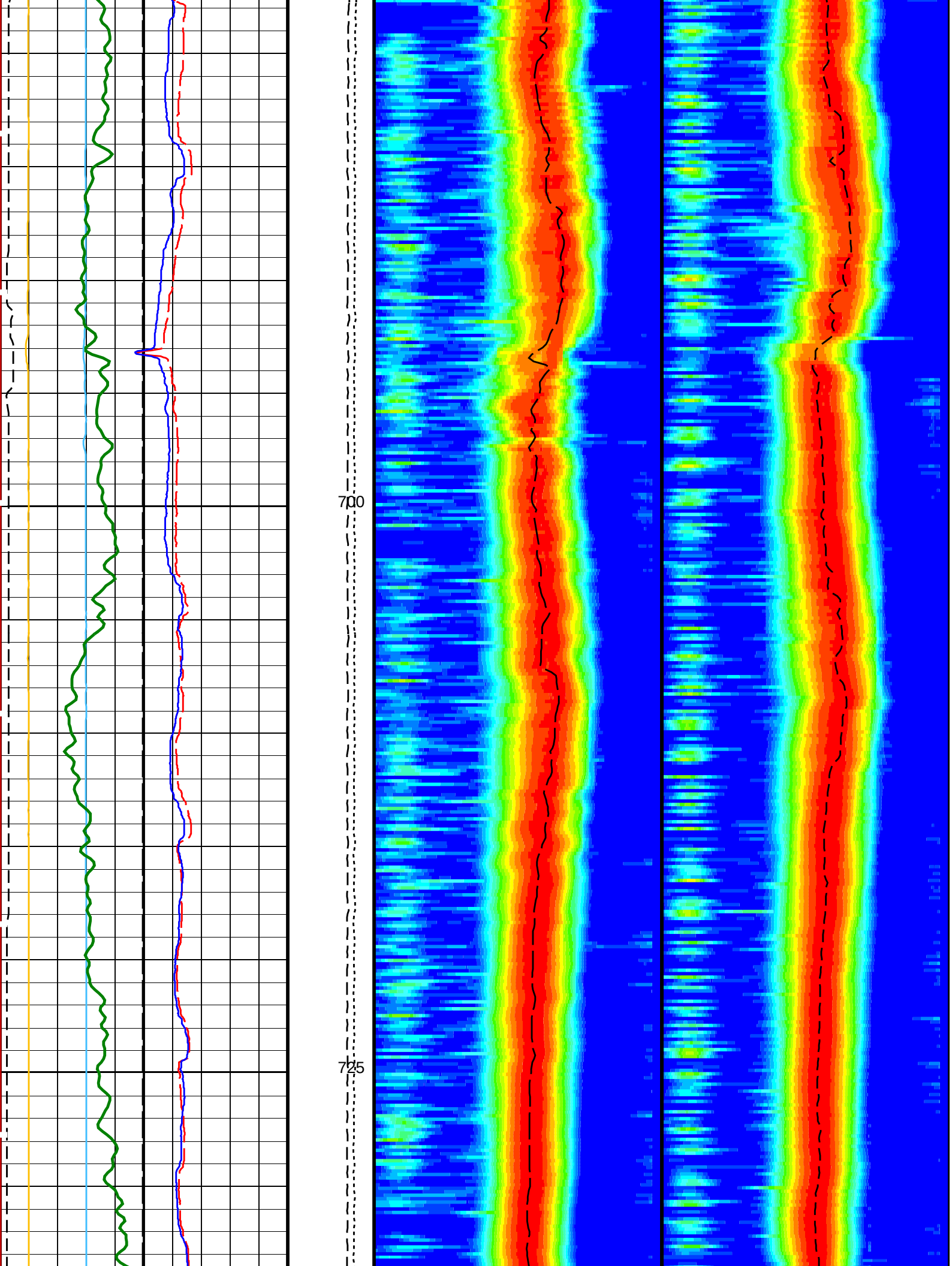
Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

Delta−T Shear / TA − Lower Dipole (DT1T)
40 (US/F) 1600

Delta−T Shear / RA − Lower Dipole (DT1R)
40 (US/F) 1600

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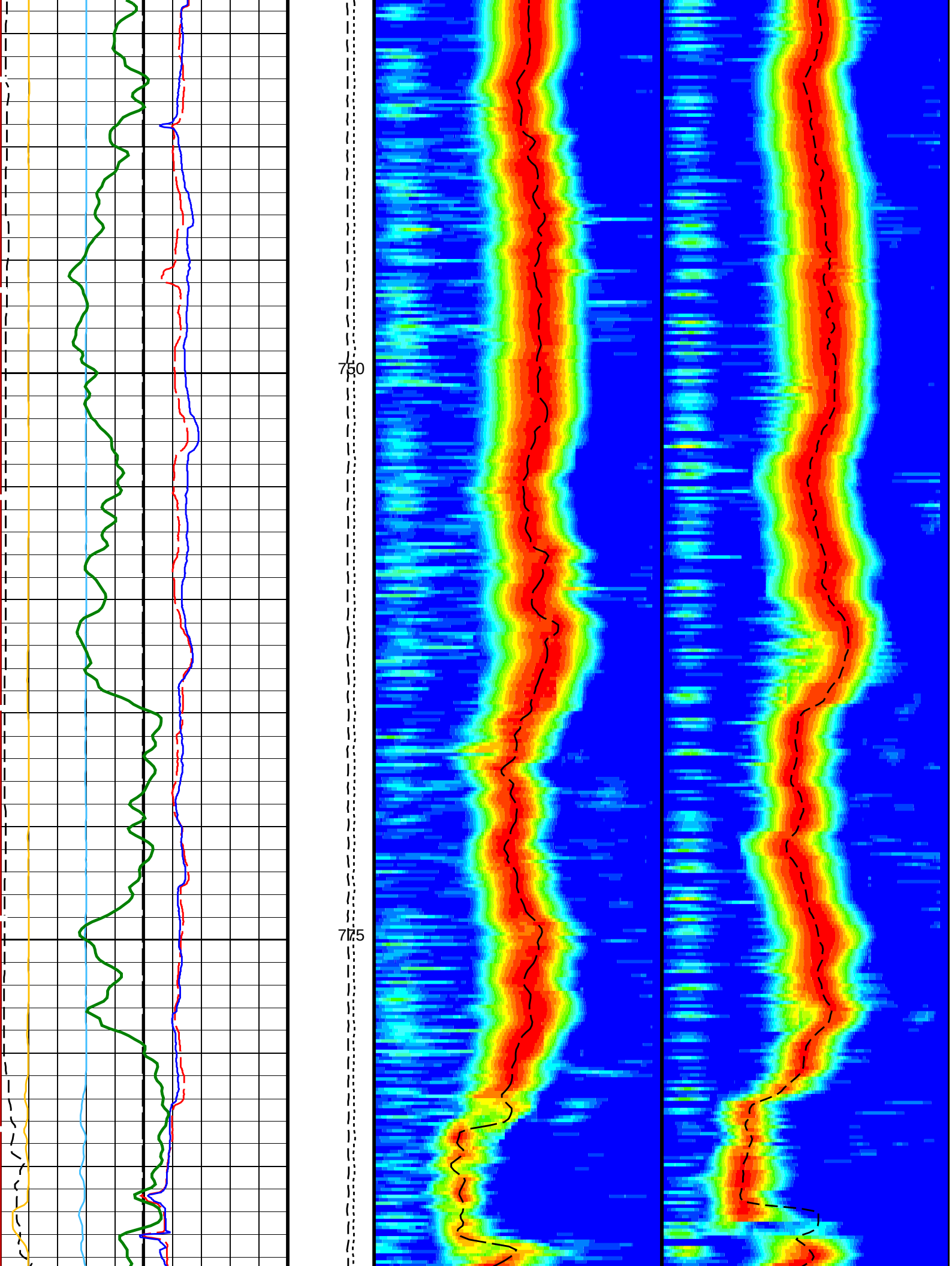
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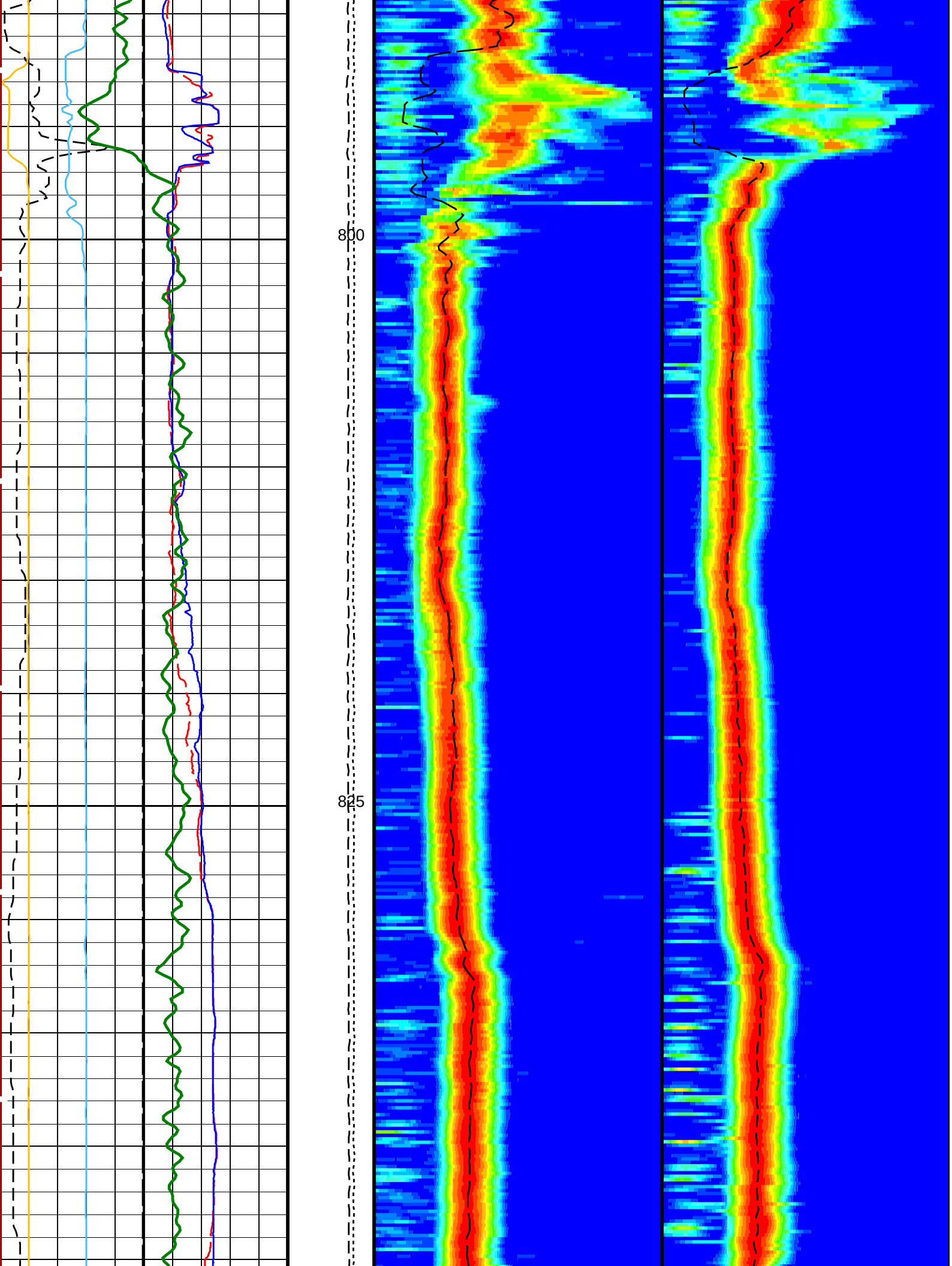
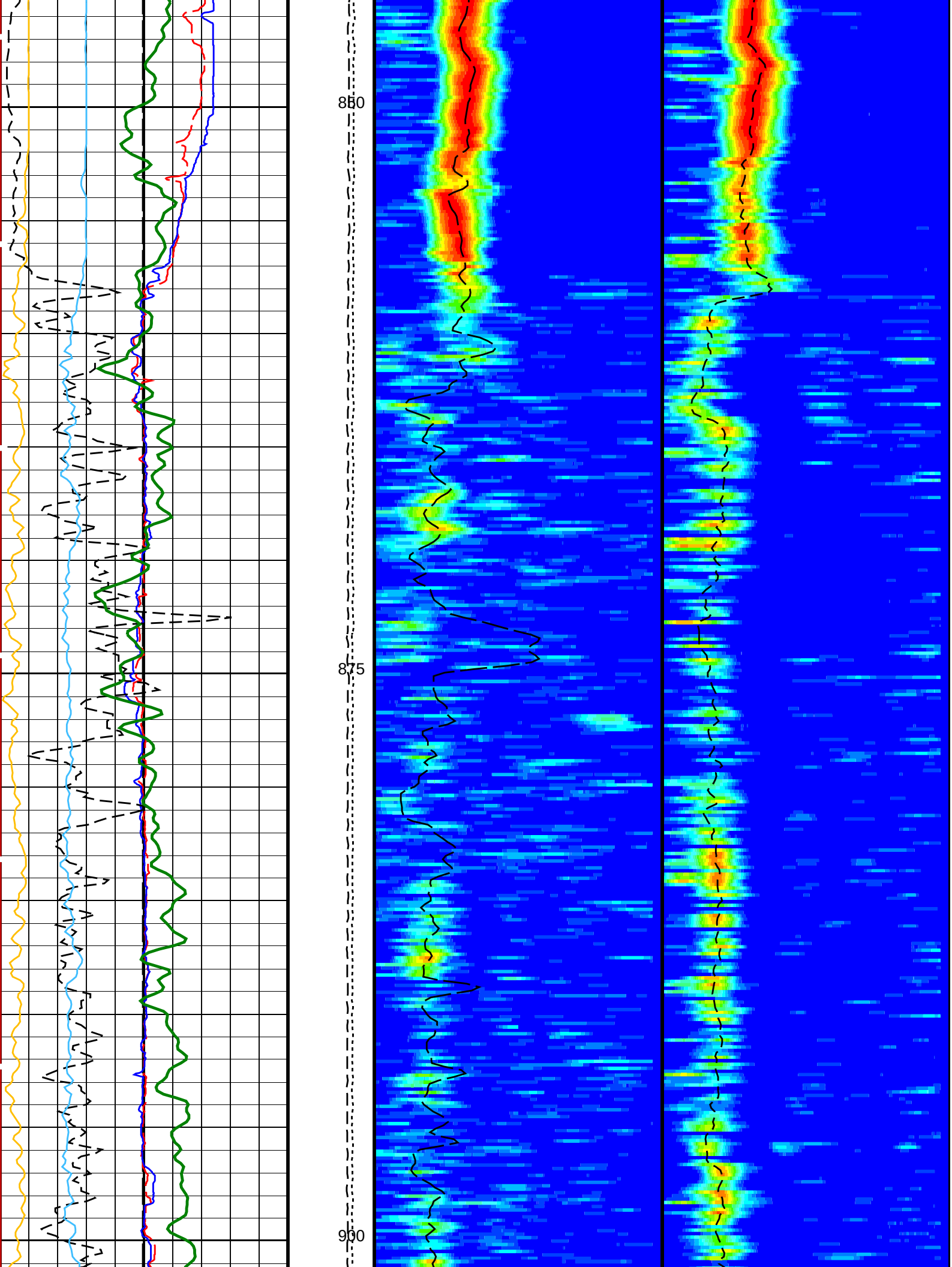

800
825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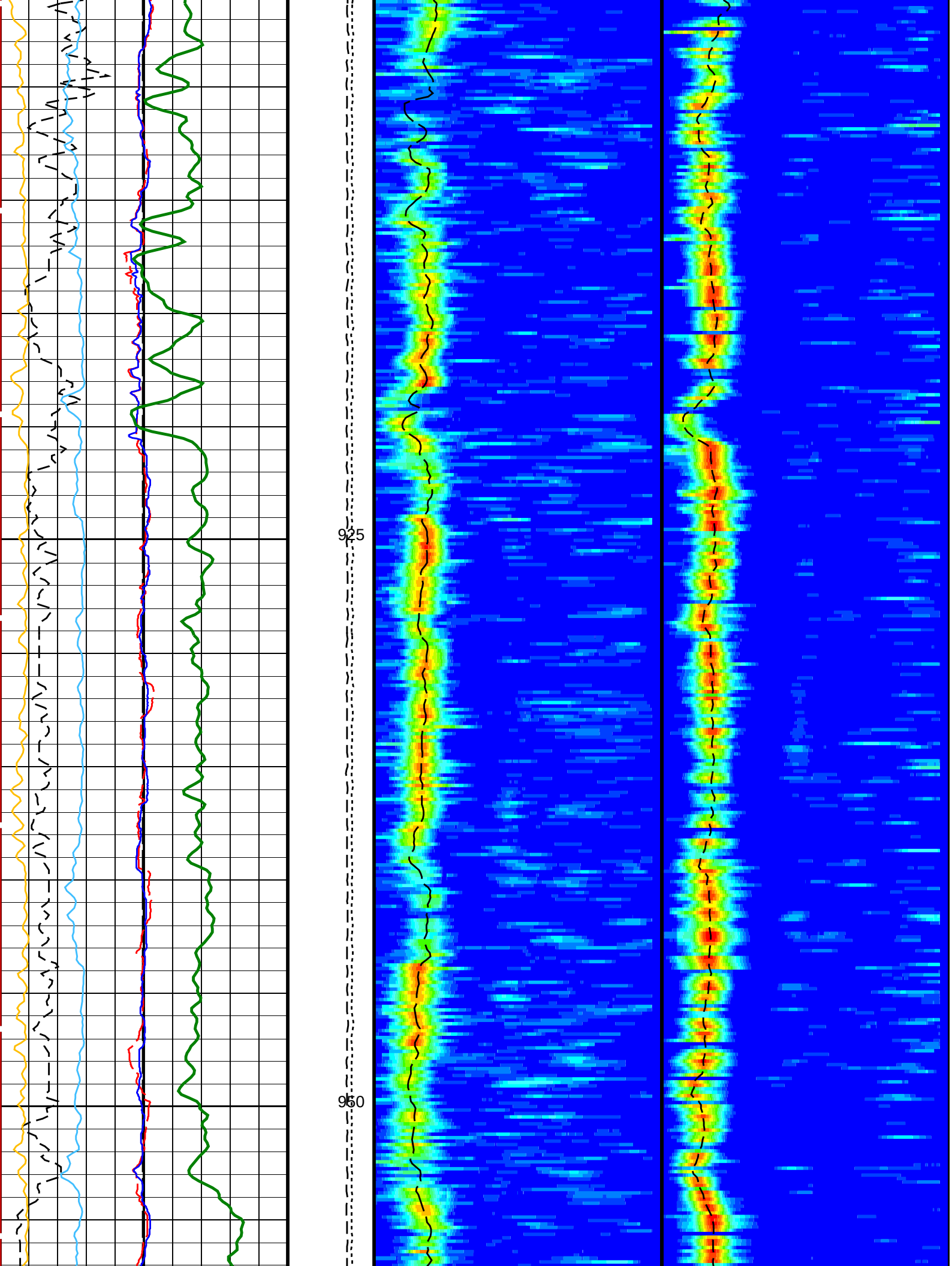
875
900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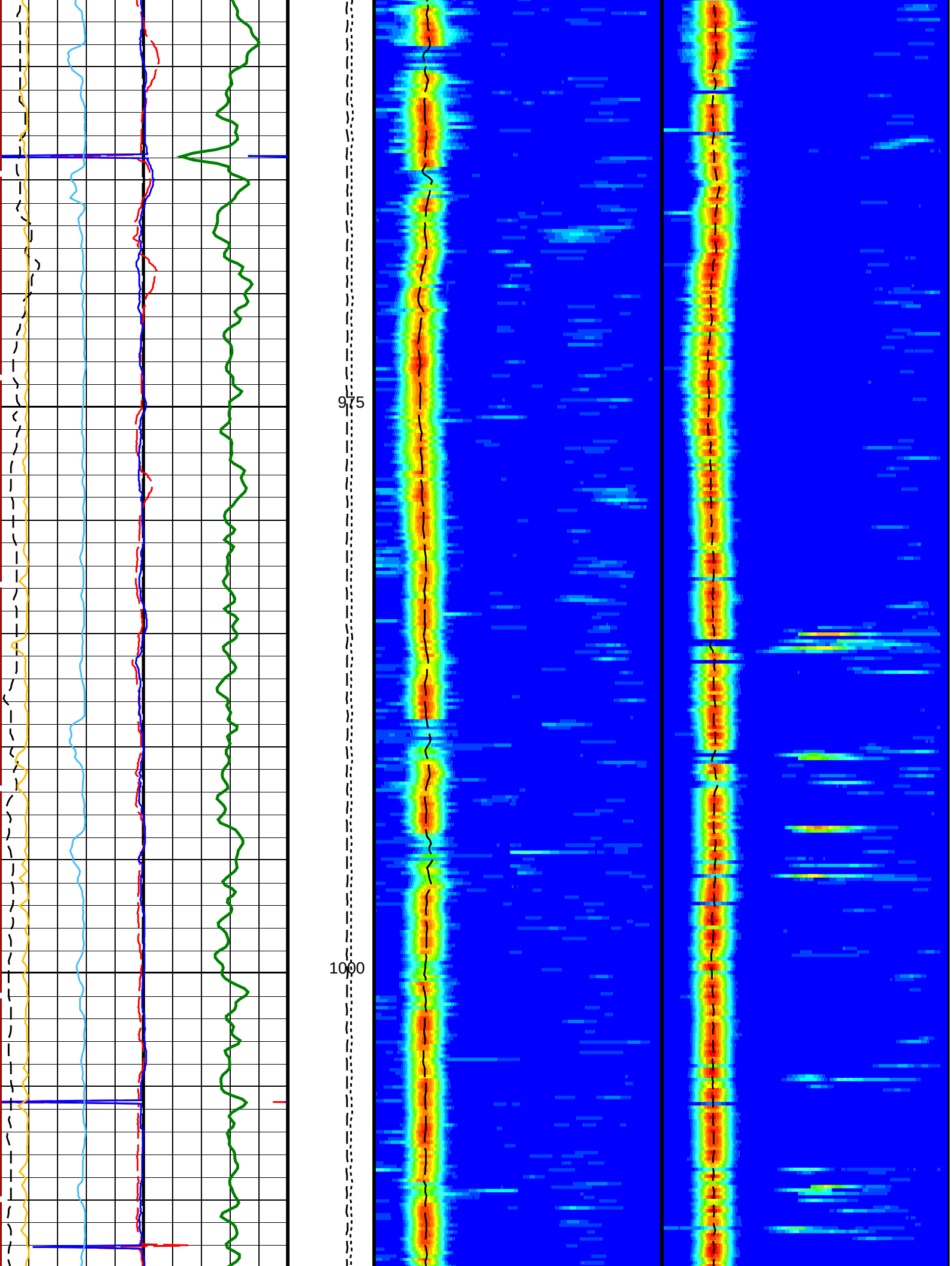
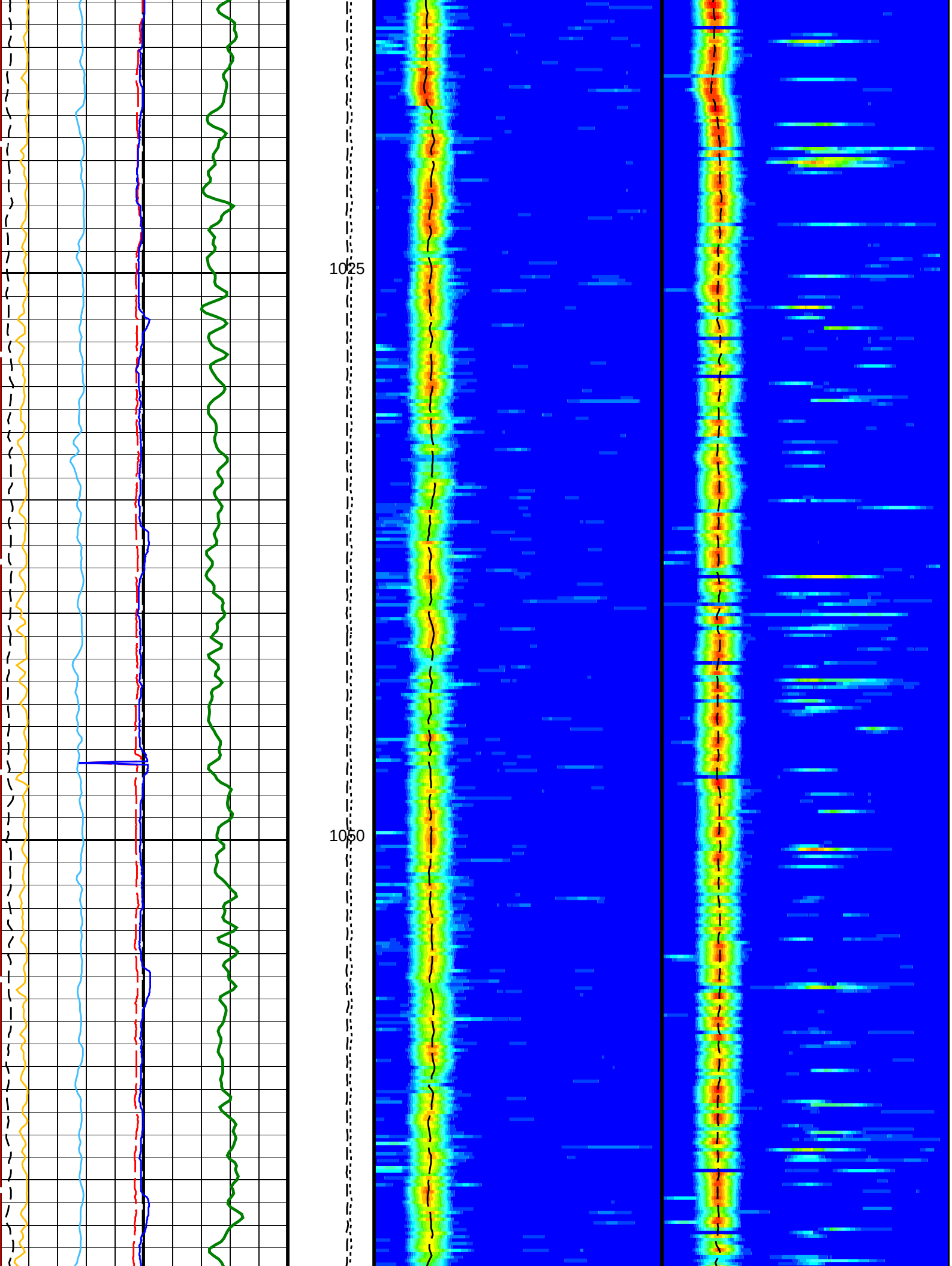
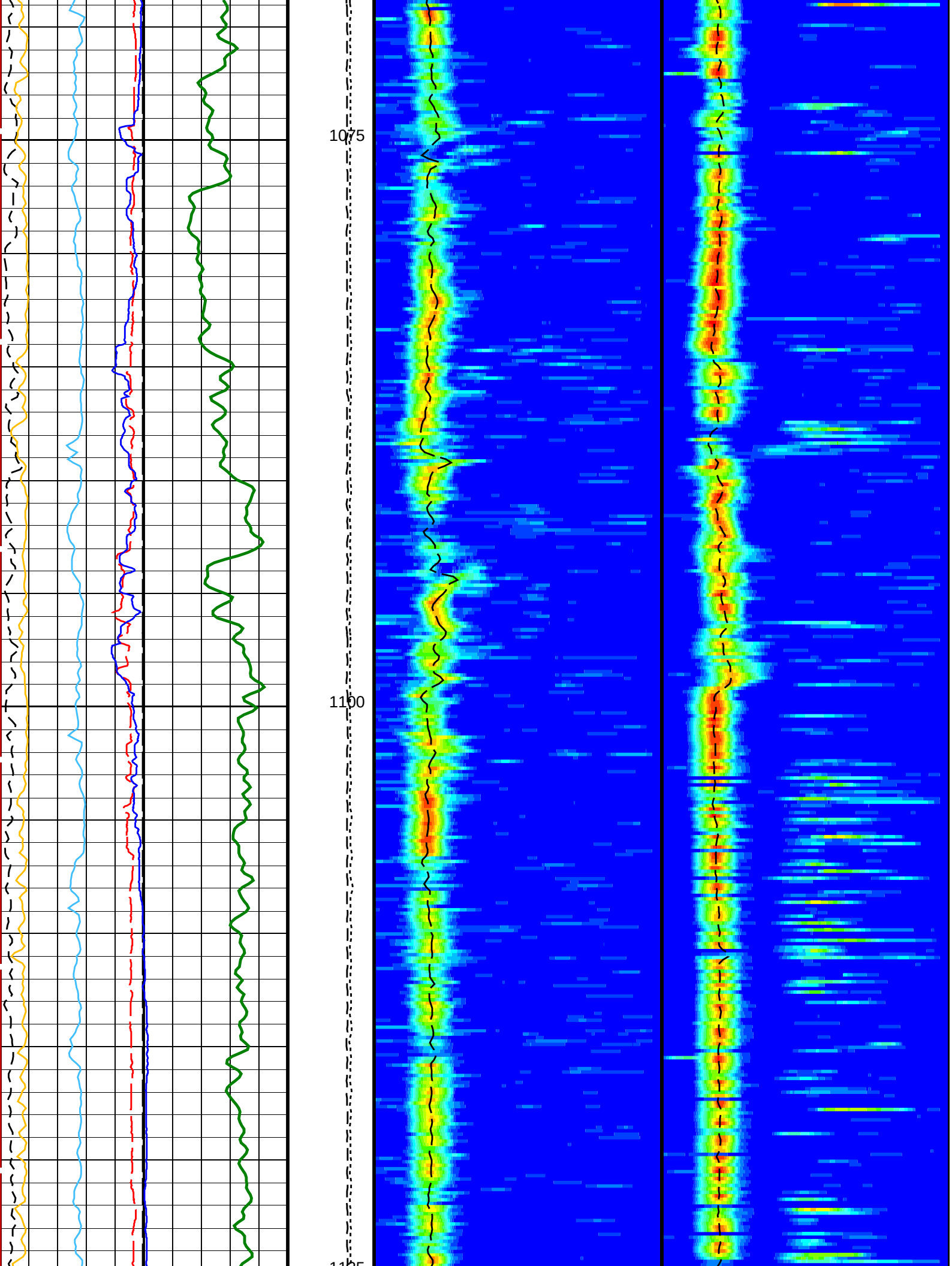
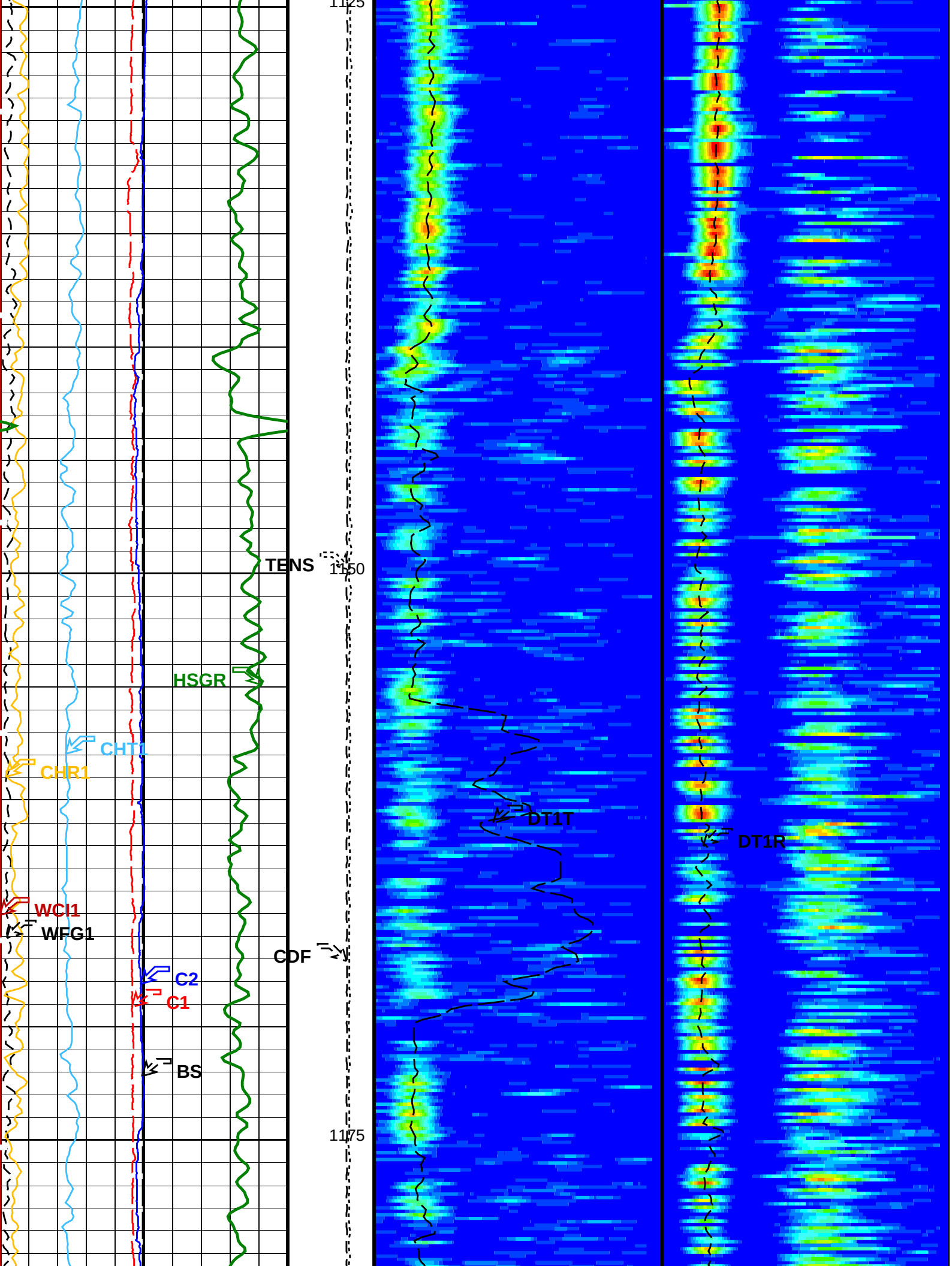
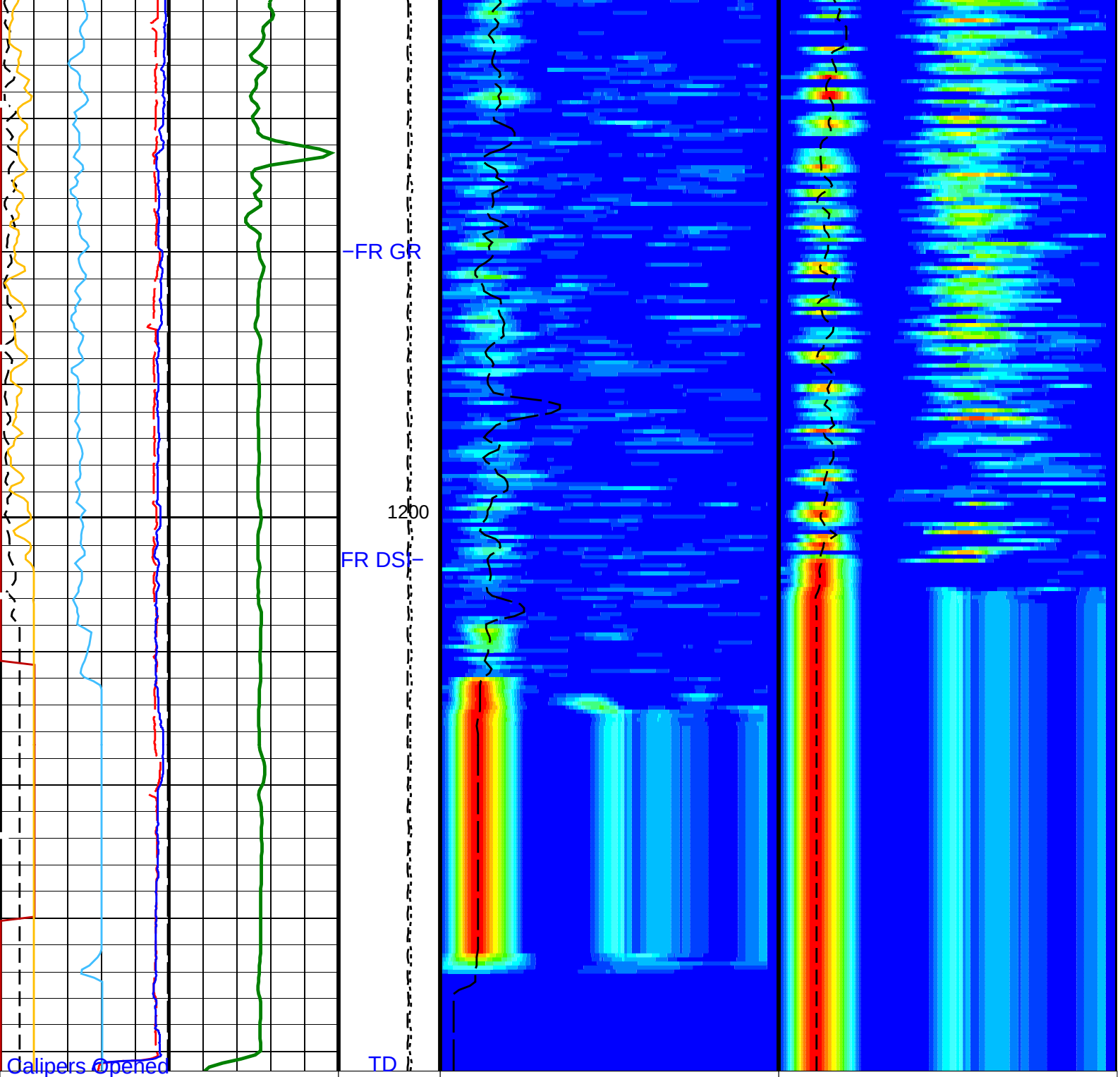

975
1000


1025
1050


1075
1100
1125


1125
TENS
1150
HSGR
CHT1
CHR1
DT1T
DT1R
WCI1
WFG1
CDF
C2
C1
BS
1175



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Shear / TA − Lower Dipole (DT1T) 40 (US/F) 1600	Delta−T Shear / RA − Lower Dipole (DT1R) 40 (US/F) 1600
Caliper 1 (C1) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 5000 0	Min Amplitude Max; Tr.Array L.Dipole Slow Proj. CVDL (SPT1) 40 (US/F) 1600	Min Amplitude Max; Rec.Array L.Dipole Slow Proj. CVDL (SPR1) 40 (US/F) 1600
Caliper 2 (C2) 0 (IN) 20			
SAM1 Waveform Gain (WFG1) 0 (−−−−) 1000			
Waveform Data Copy Indicator 1 − Lower Dipole (WCI1) 0 (−−−−) 10			

Uplog #1

0	( )	10

Peak Coherence / RA − Lower Dipole (CHR1)

0	(−−−−)	10

Peak Coherence / TA − Lower Dipole (CHT1)

−2	(−−−−)	8

HNGS Spectroscopy Gamma Ray (HSGR)

0	(GAPI)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
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	1600	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	
GCSE	Generalized Caliper Selection	C1	
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	1600	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	
	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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.0023129	
HALF	HNGS Alpha Filter Length	60	IN

HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.977875	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.985679	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_LOWER_DIPOLE_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:51

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51

Company: International Ocean Discovery Program Well: Expedition 374, Site U1521A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51	1220.7 M	674.2 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
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
COLL	140 US/F	60 US/F	804.7 19:53:41

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

Peak Coherence / TA − P & S Shear (CHTS)		
−1	(−−−−)	9

Peak Coherence / RA − P & S Shear (CHRS)		
−1	(−−−−)	9

Peak Coherence / TA − P & S Comp

Peak Coherence / TA − P & S Comp (CHTP)
0 (−−−−) 10

Peak Coherence / RA − P & S Comp (CHRP)
0 (−−−−) 10

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (−−−−) 10

SAM4 Waveform Gain (WFG4)
0 (−−−−) 1000

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

Uplog 1

Min Amplitude Max
Tr.Array P&S Slow Proj. CVDL (SPT4)
40 (US/F) 240

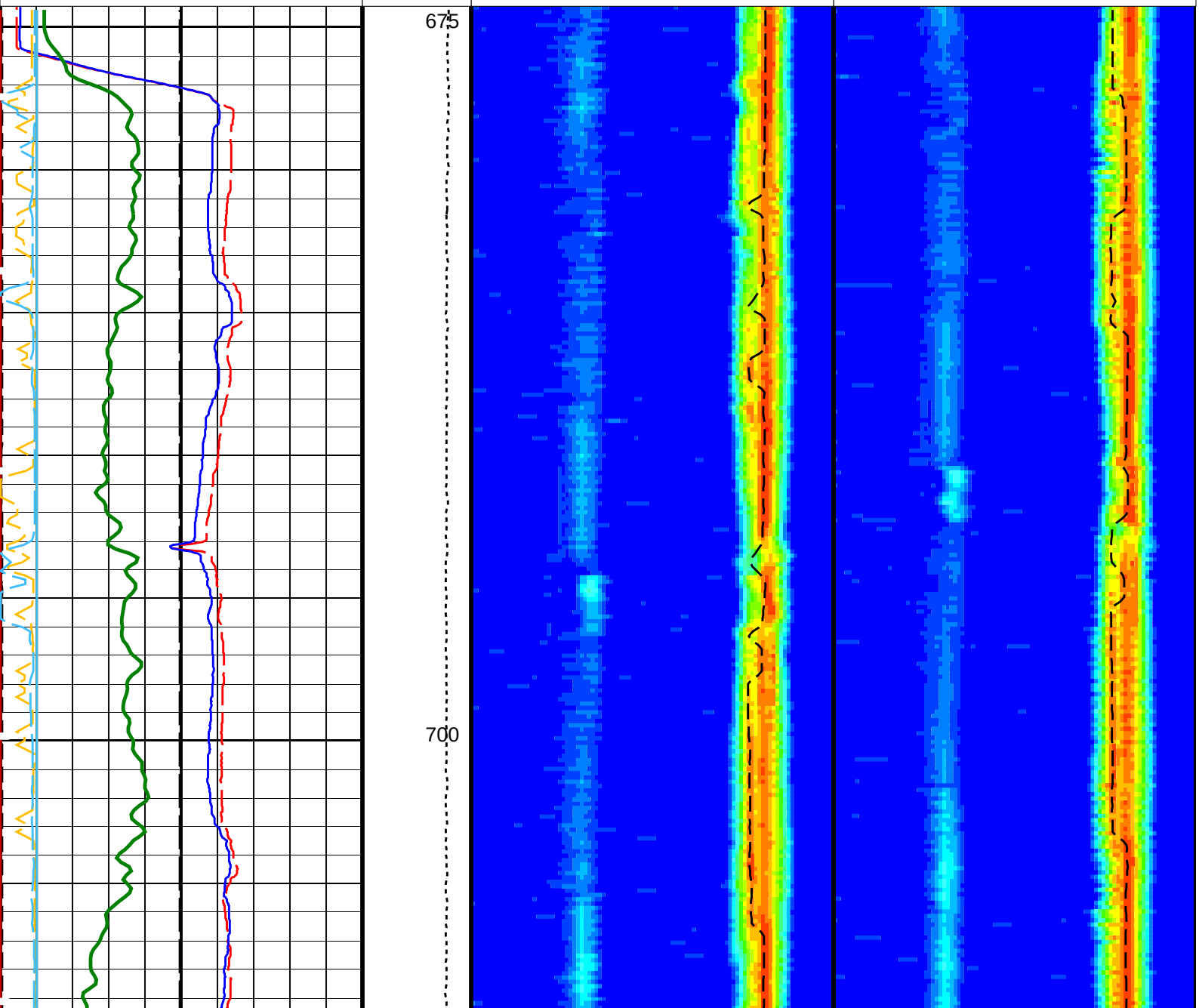
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

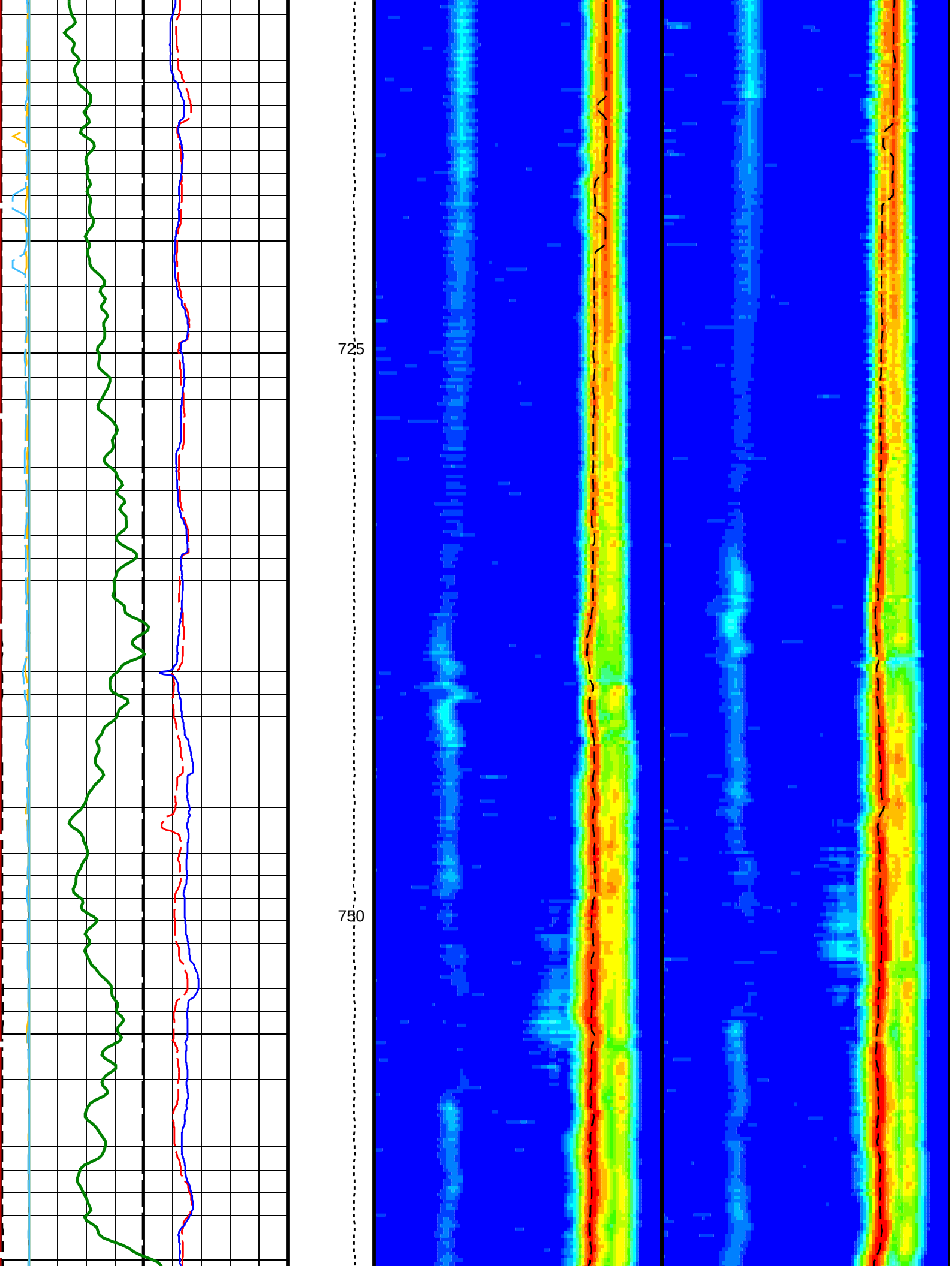
Delta−T Shear / TA − P & S (DTTS)
40 (US/F) 240

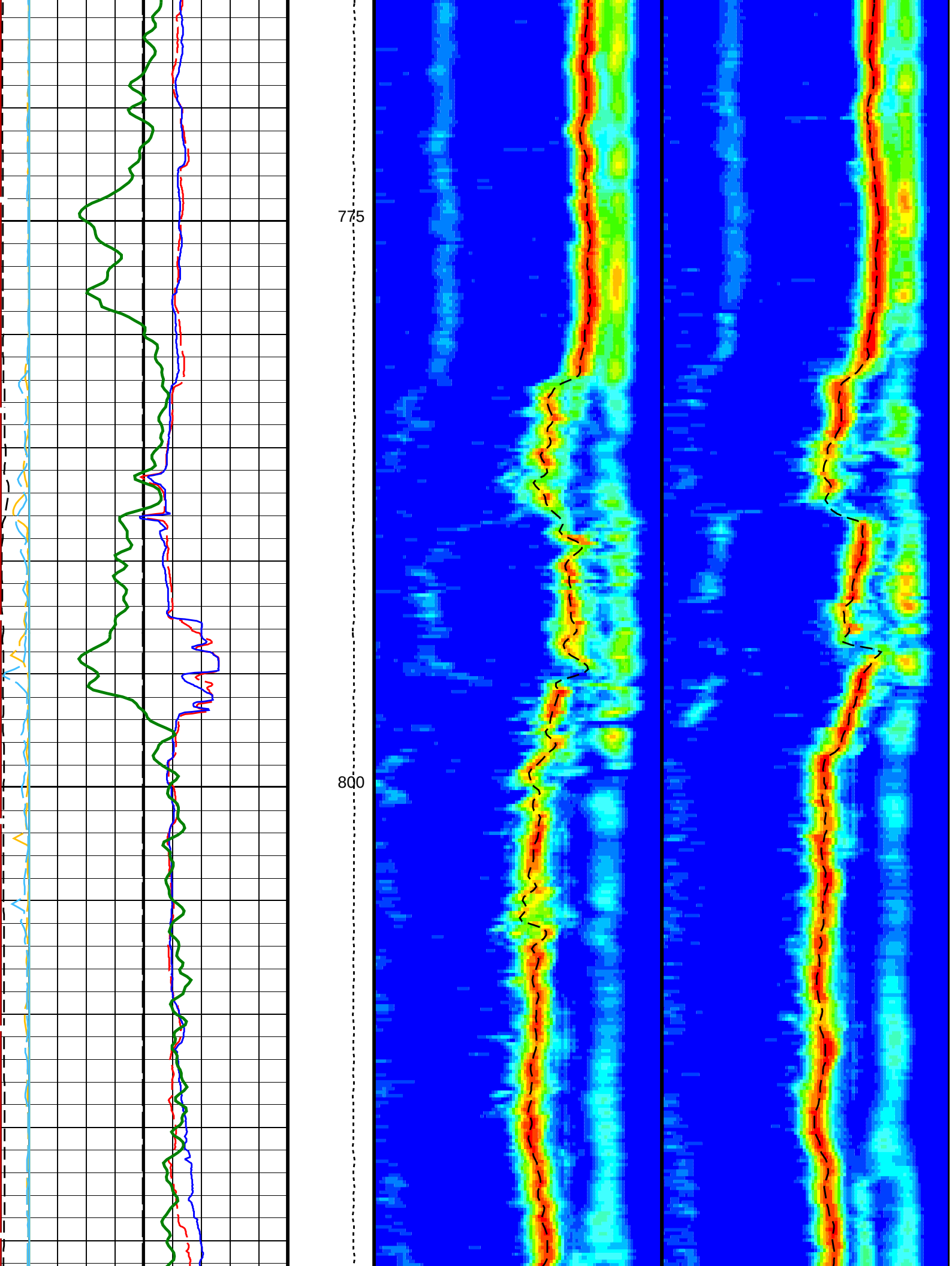
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

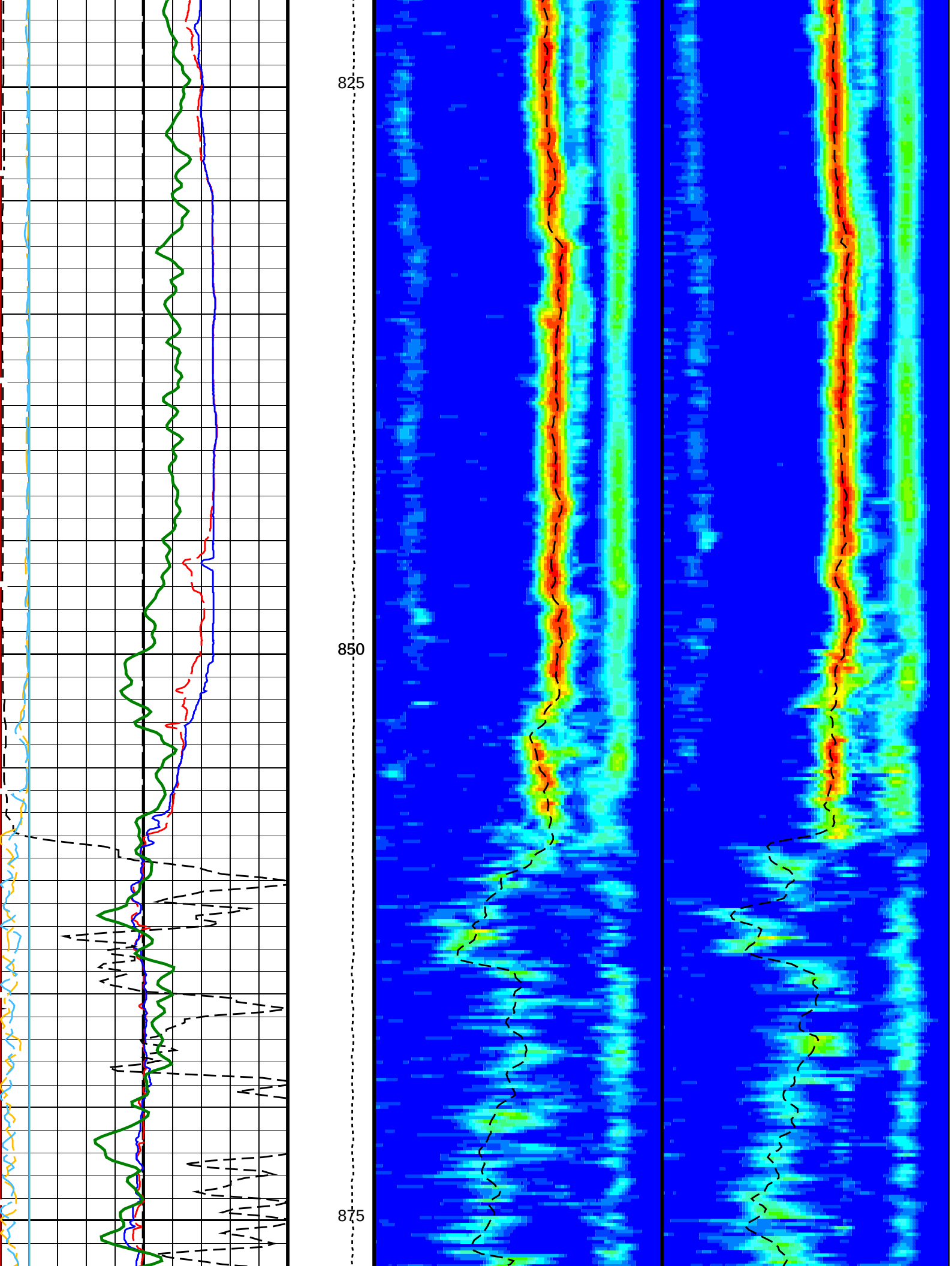
Delta−T Comp / TA − P & S (DTTP)
40 (US/F) 240

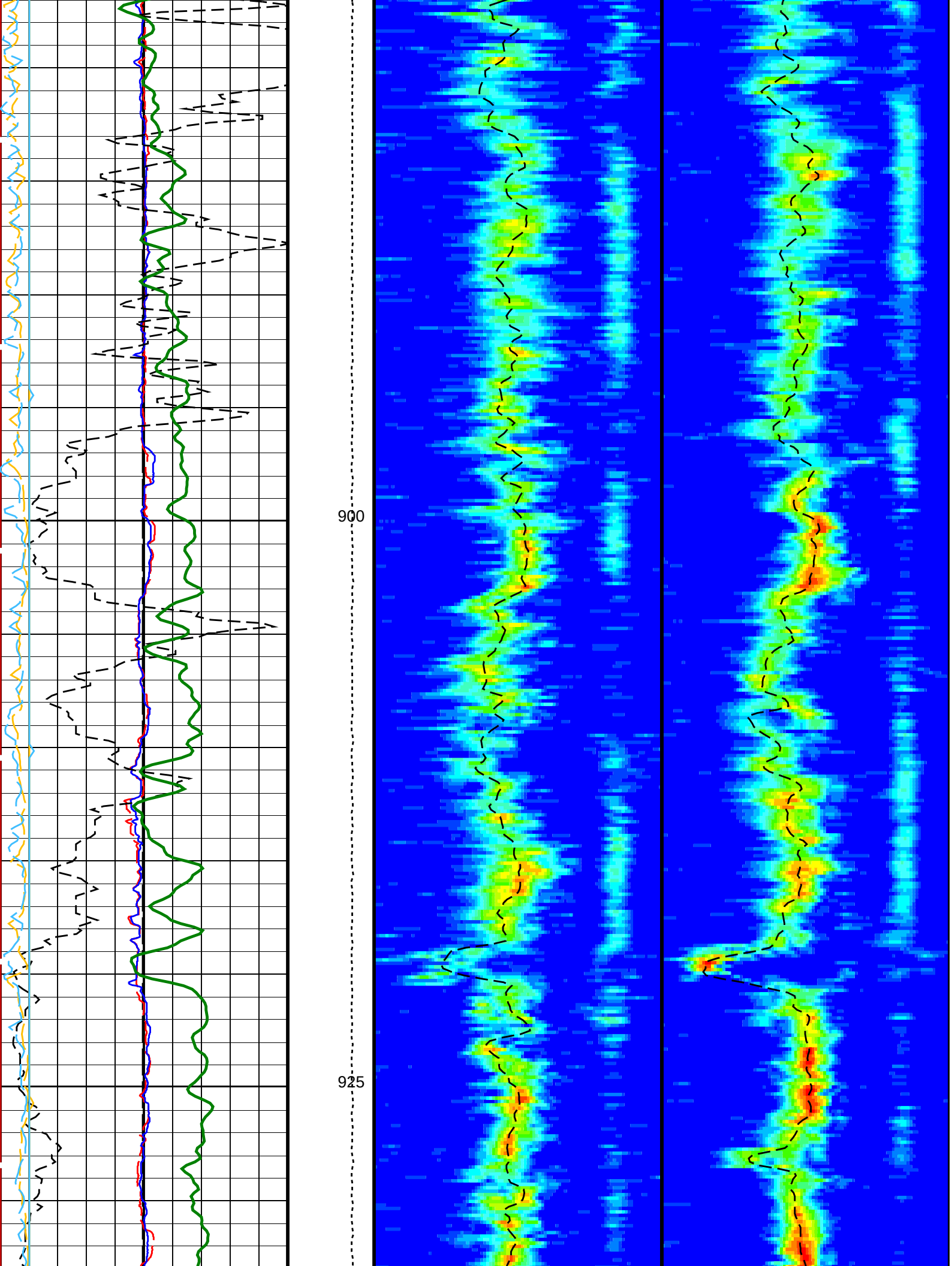
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

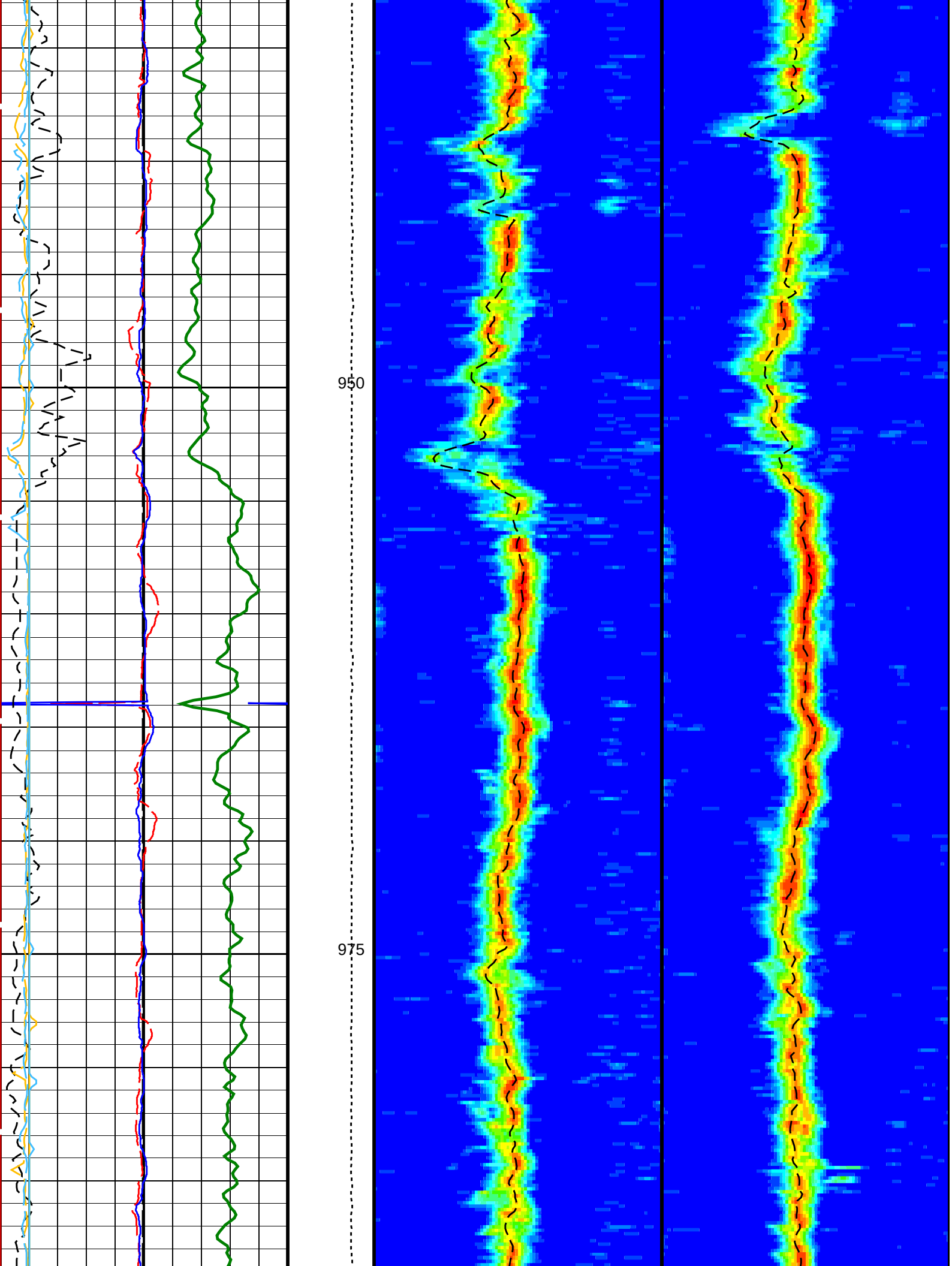


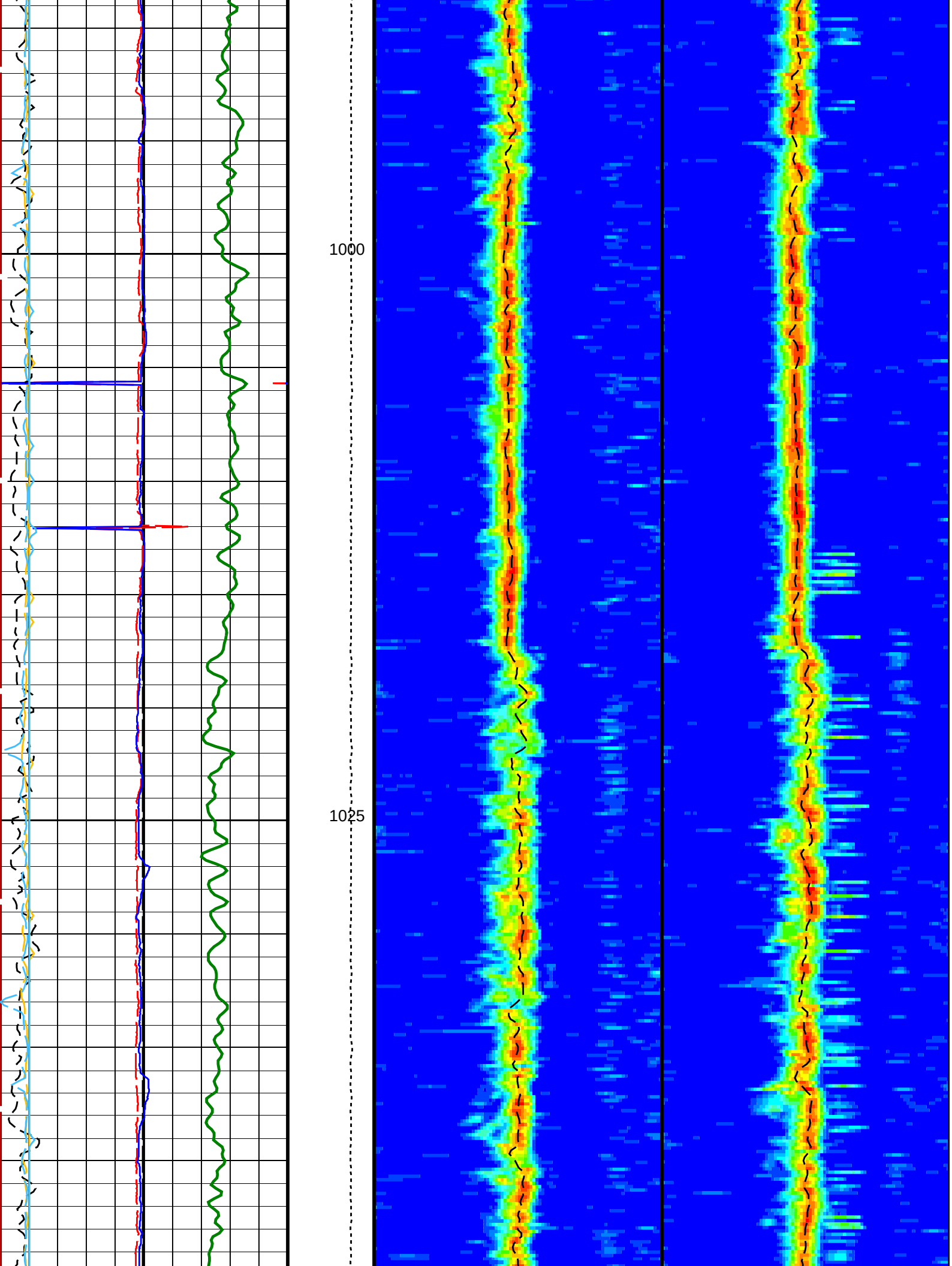

725
750

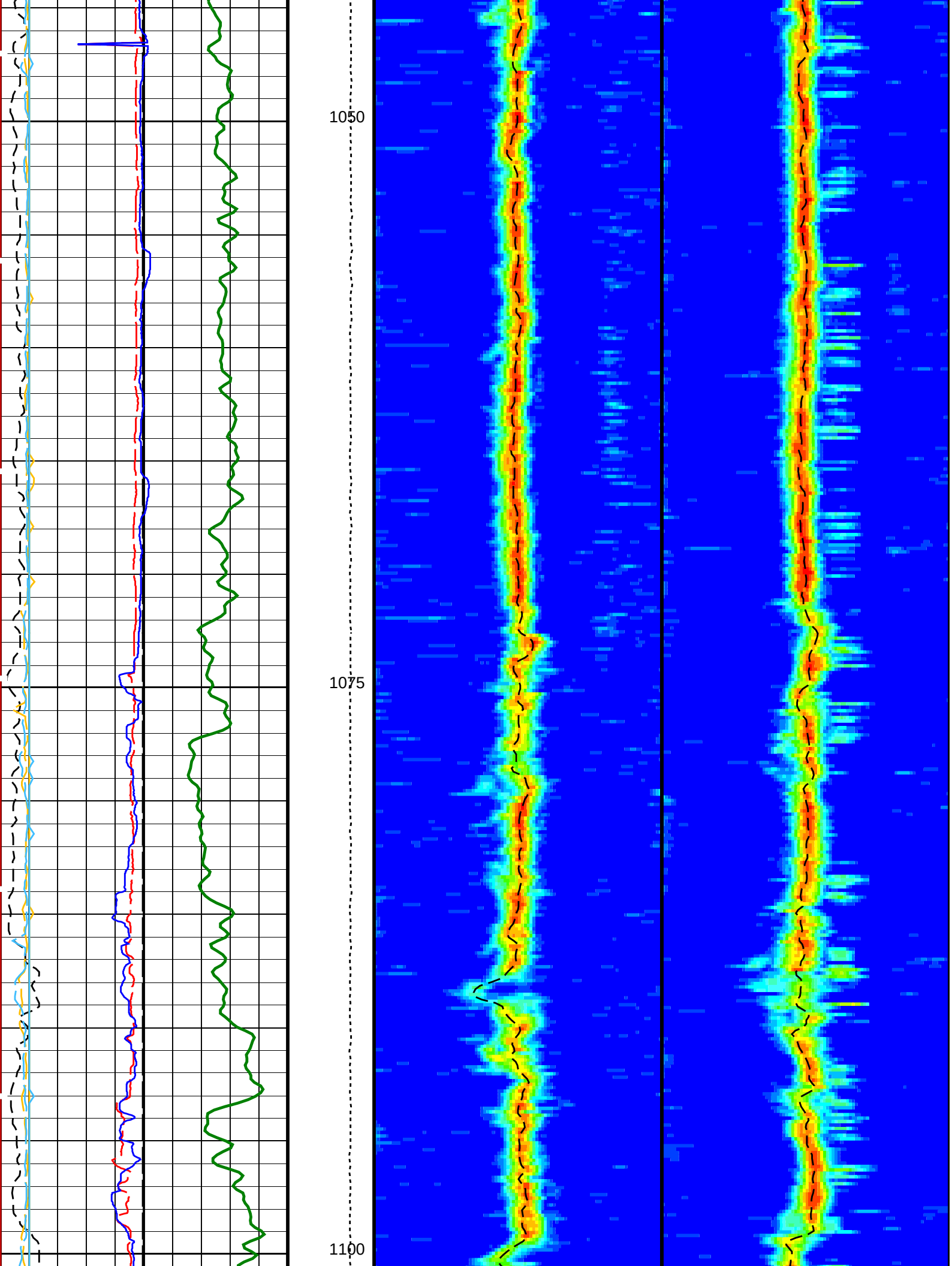

775
800

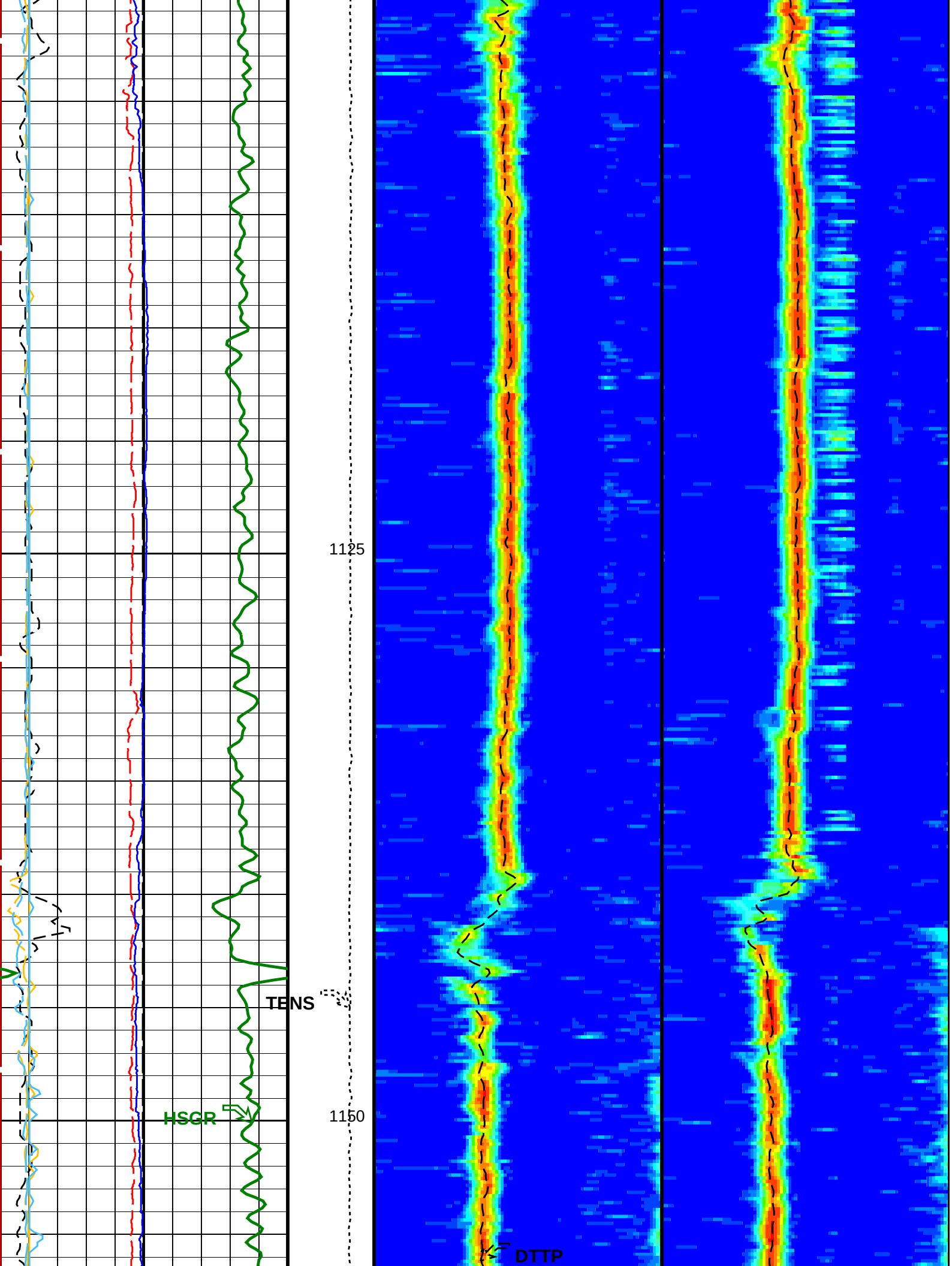

825
850
875

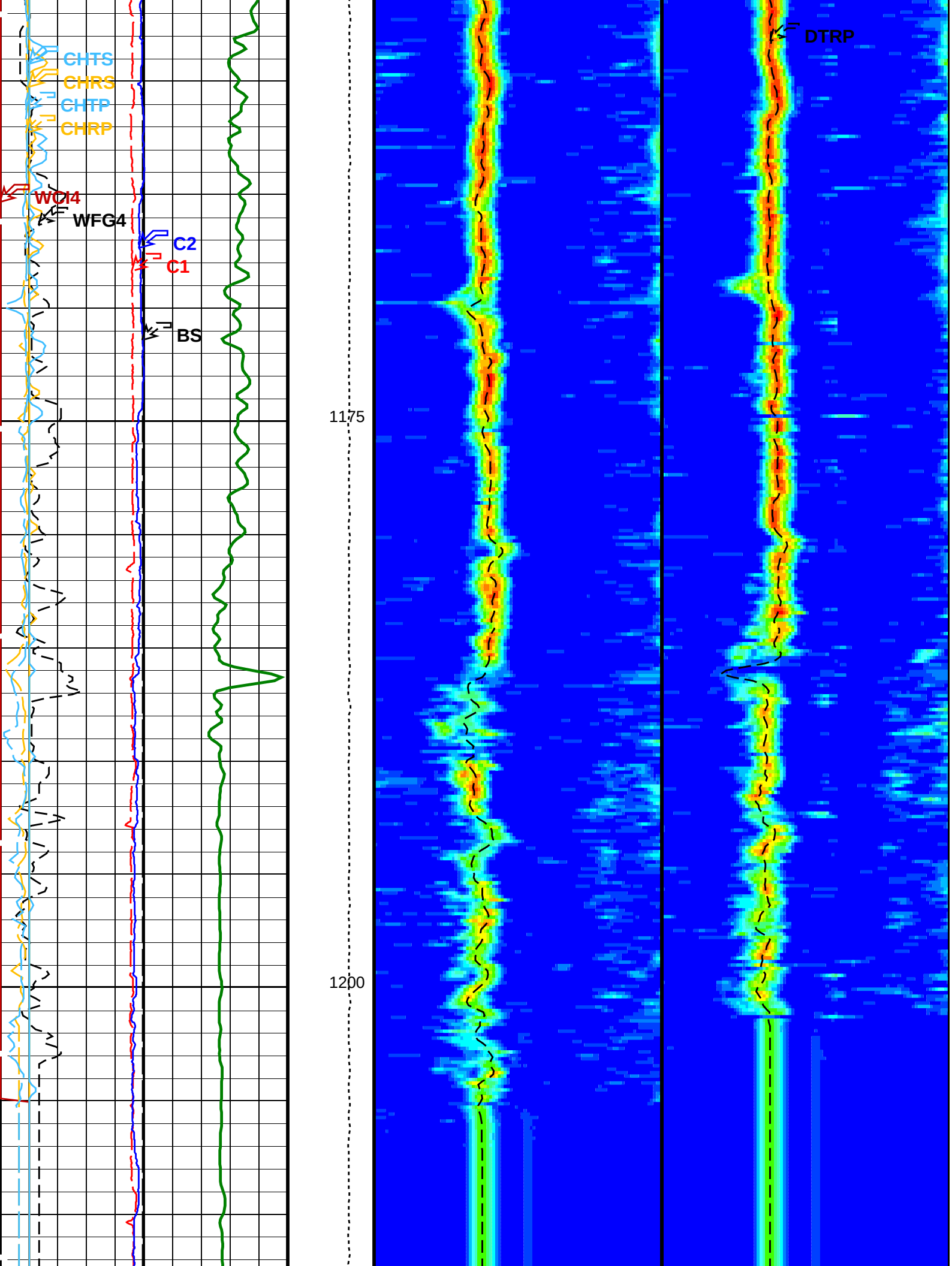

900
925

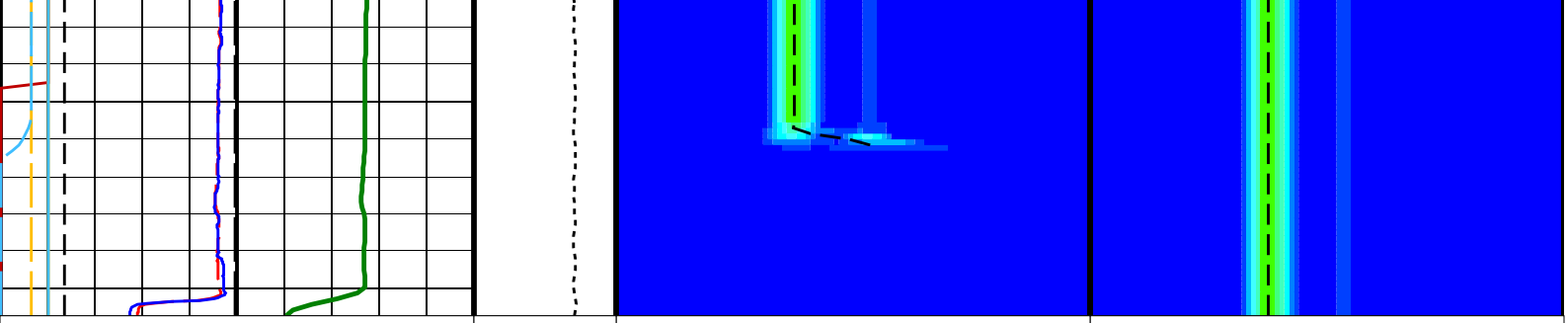

950
975


1000
1025


1050
1075
1100


1125
TENS
HSGR
1150
DTTP


CHTS
CHRS
CHTP
CHRP
WCI4
WFG4
C2
C1
BS
1175
1200
DTRP



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Comp / TA − P & S (DTTP) 40 (US/F) 240	Delta−T Comp / RA − P & S (DTRP) 40 (US/F) 240
Caliper 1 (C1) 0 (IN) 20		Delta−T Shear / TA − P & S (DTTS) 40 (US/F) 240	Delta−T Shear / RA − P & S (DTRS) 40 (US/F) 240
Caliper 2 (C2) 0 (IN) 20		Min Amplitude Max Tr.Array P&S Slow Proj. CVDL (SPT4) 40 (US/F) 240	Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240
SAM4 Waveform Gain (WFG4) 0 (−−−−) 1000			
Waveform Data Copy Indicator 4 − Monopole P&S (WCI4) 0 (−−−−) 10			
Peak Coherence / RA − P & S Comp (CHRP) 0 (−−−−) 10	Uplog 1		
Peak Coherence / TA − P & S Comp (CHTP) 0 (−−−−) 10			
Peak Coherence / RA − P & S Shear (CHRS) −1 (−−−−) 9			
Peak Coherence / TA − P & S Shear (CHTS) −1 (−−−−) 9			
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100			

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	60	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	60	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	202	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	205	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character − Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXC	Monopole Transmitter Geometry	186	IN

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	EVEN	
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	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	239	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	
WFM4	Waveform Mode 4	W1	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.0023129	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.977875	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.985679	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_RC_TR_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:51

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51		

Company: International Ocean Discovery Program — **Well: Expedition 374, Site U1521A**

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59	1220.7 M	561.1 M

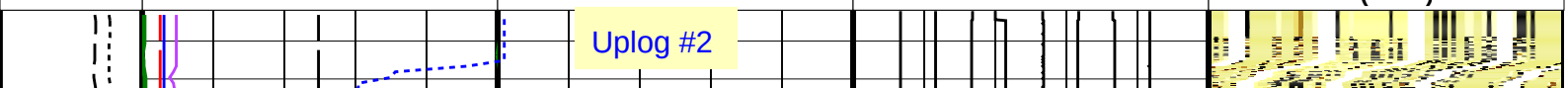
OP System Version: 19C0−187

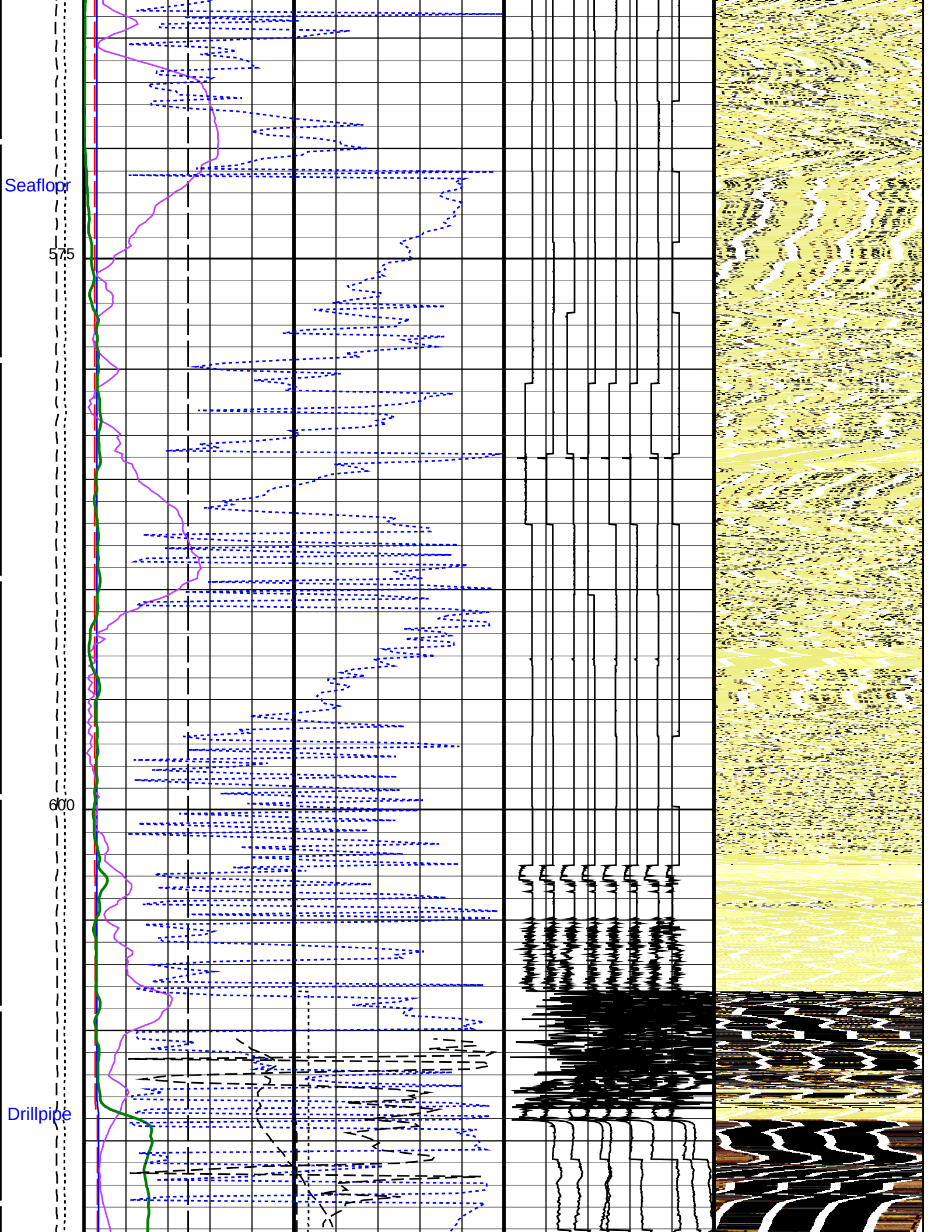
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

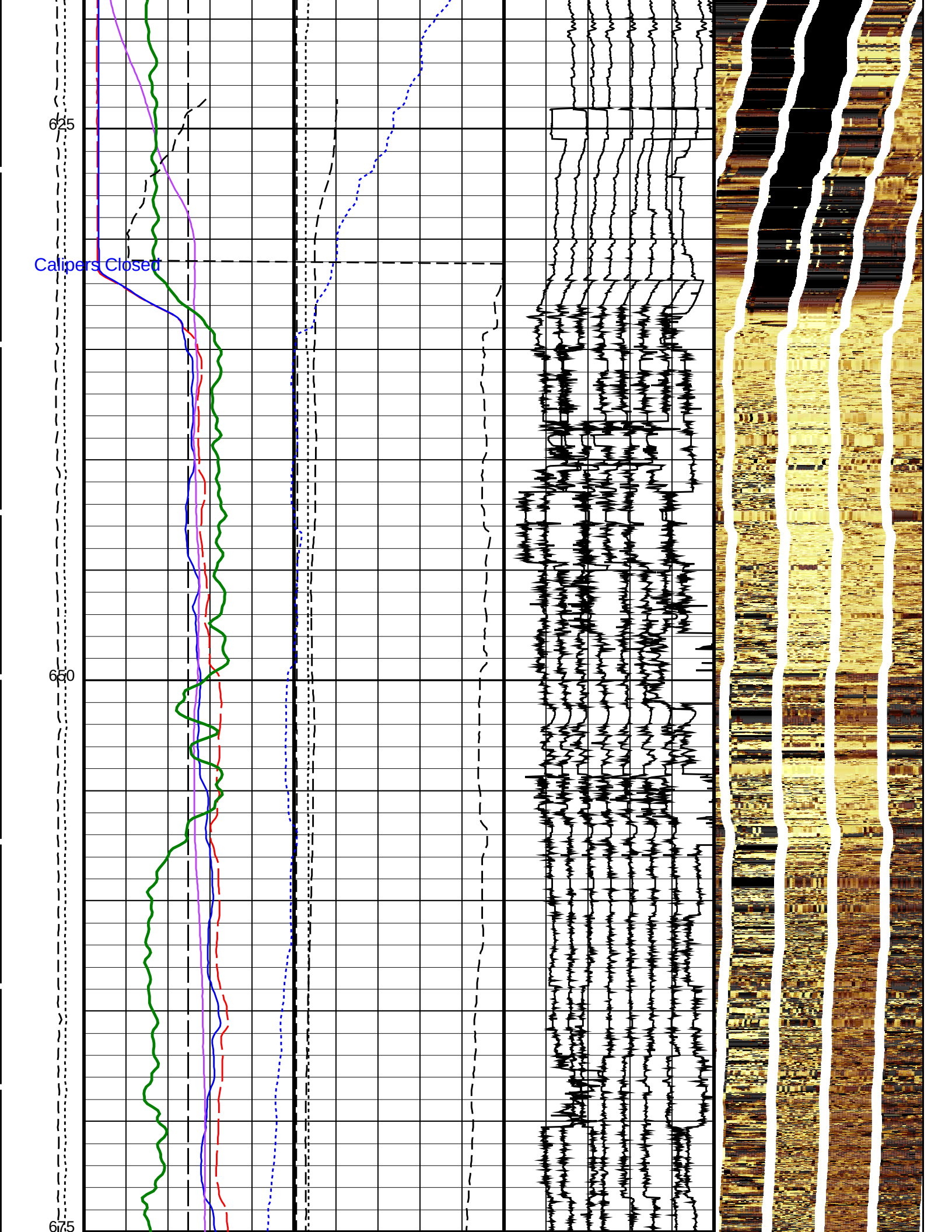
PIP SUMMARY

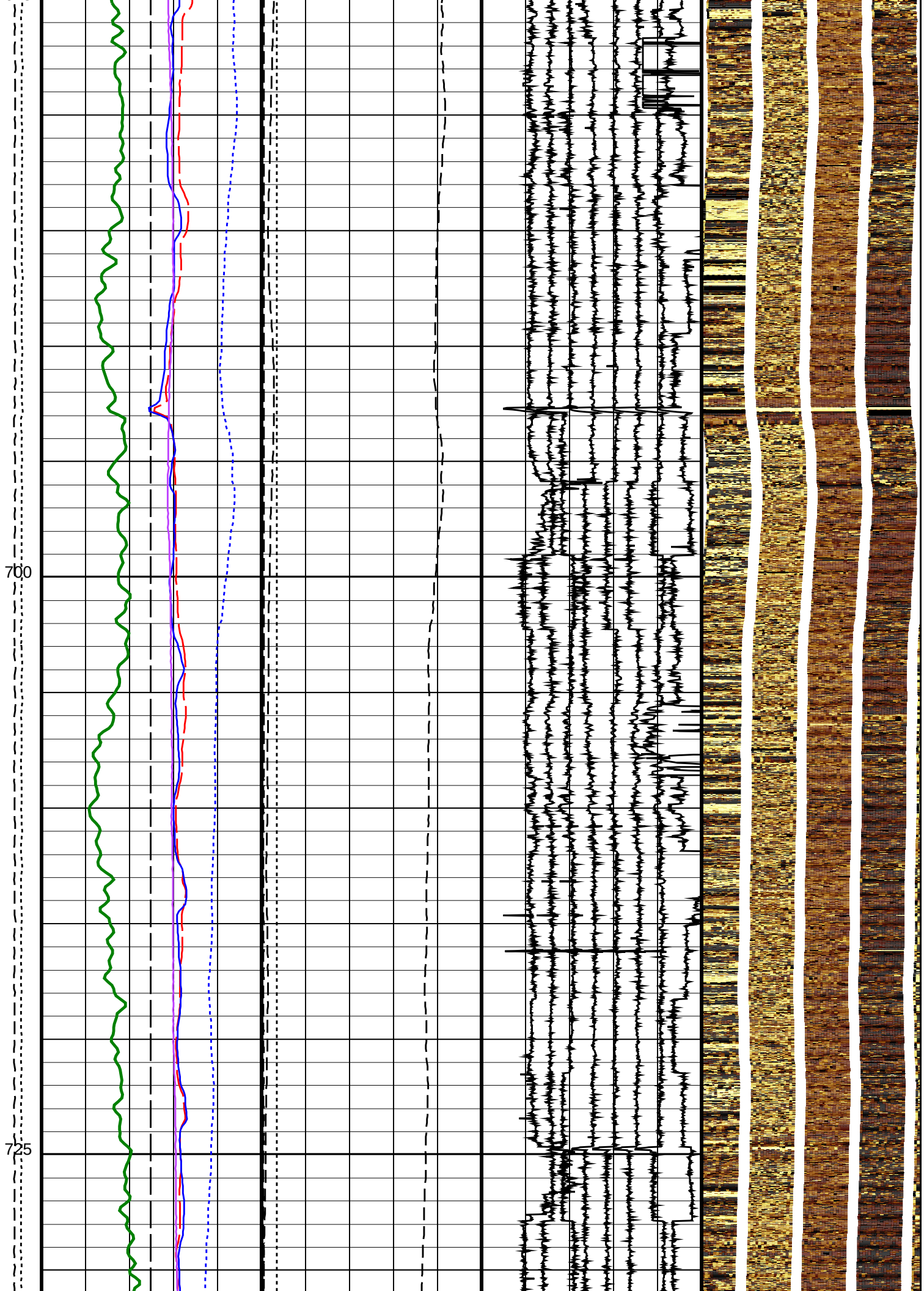
Time Mark Every 60 S

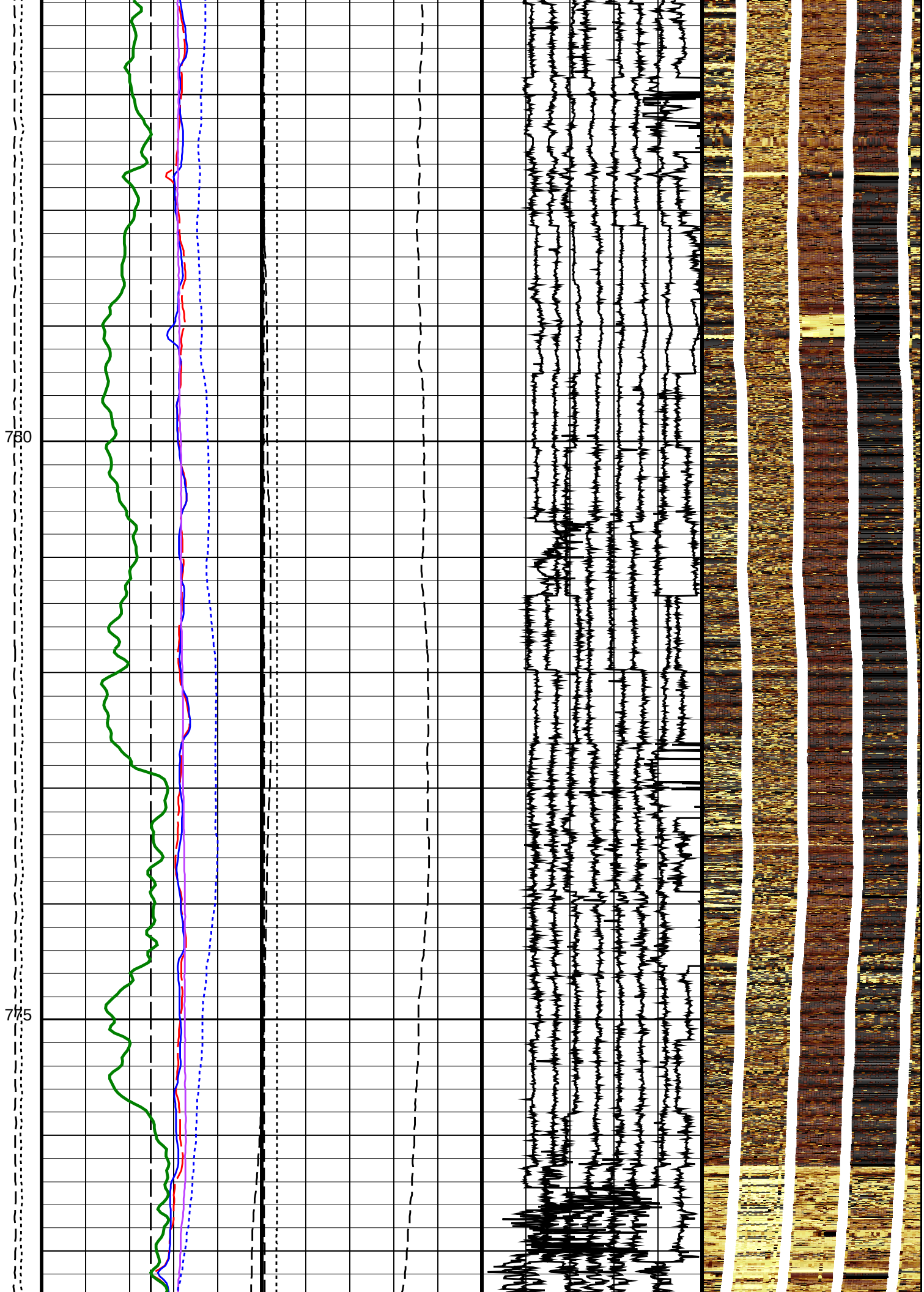
	HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100		Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20	
	Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30	
	Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
	Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	
	Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	−0.3367 0.8877 4.1529 6.3977 7.2140 7.6222 8.0303 8.4385 8.6426 9.0507 9.4588 9.8670 10.2751 10.8874 11.9077 13.1322 MEST_PADD (U−MEST_ RESISTIVITY_PADD_EQU) (−−−−)
	Caliper 2 (C2) 0 (IN) 20		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	−0.3367 0.8877 4.1529 6.3977 7.2140 7.6222 8.0303 8.4385 8.6426 9.0507 9.4588 9.8670 10.2751 10.8874 11.9077 13.1322 MEST_PADC (U−MEST_ RESISTIVITY_PADC_EQU) (−−−−)
Calibrated Downhole Force (CDF) (LBF) 5000 0	Caliper 1 (C1) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	−0.3367 0.8877 4.1529 6.3977 7.2140 7.6222 8.0303 8.4385 8.6426 9.0507 9.4588 9.8670 10.2751 10.8874 11.9077 13.1322 MEST_PADB (U−MEST_ RESISTIVITY_PADB_EQU) (−−−−)
Tension (TENS) (LBF) 10000 0	Bit Size (BS) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90	−0.3367 0.8877 4.1529 6.3977 7.2140 7.6222 8.0303 8.4385 8.6426 9.0507 9.4588 9.8670 10.2751 10.8874 11.9077 13.1322 MEST_PADA (U−MEST_ RESISTIVITY_PADA_EQU) (−−−−)




Seafloor
575
600
Drillpipe


625
Calipers Closed
650
675


700
725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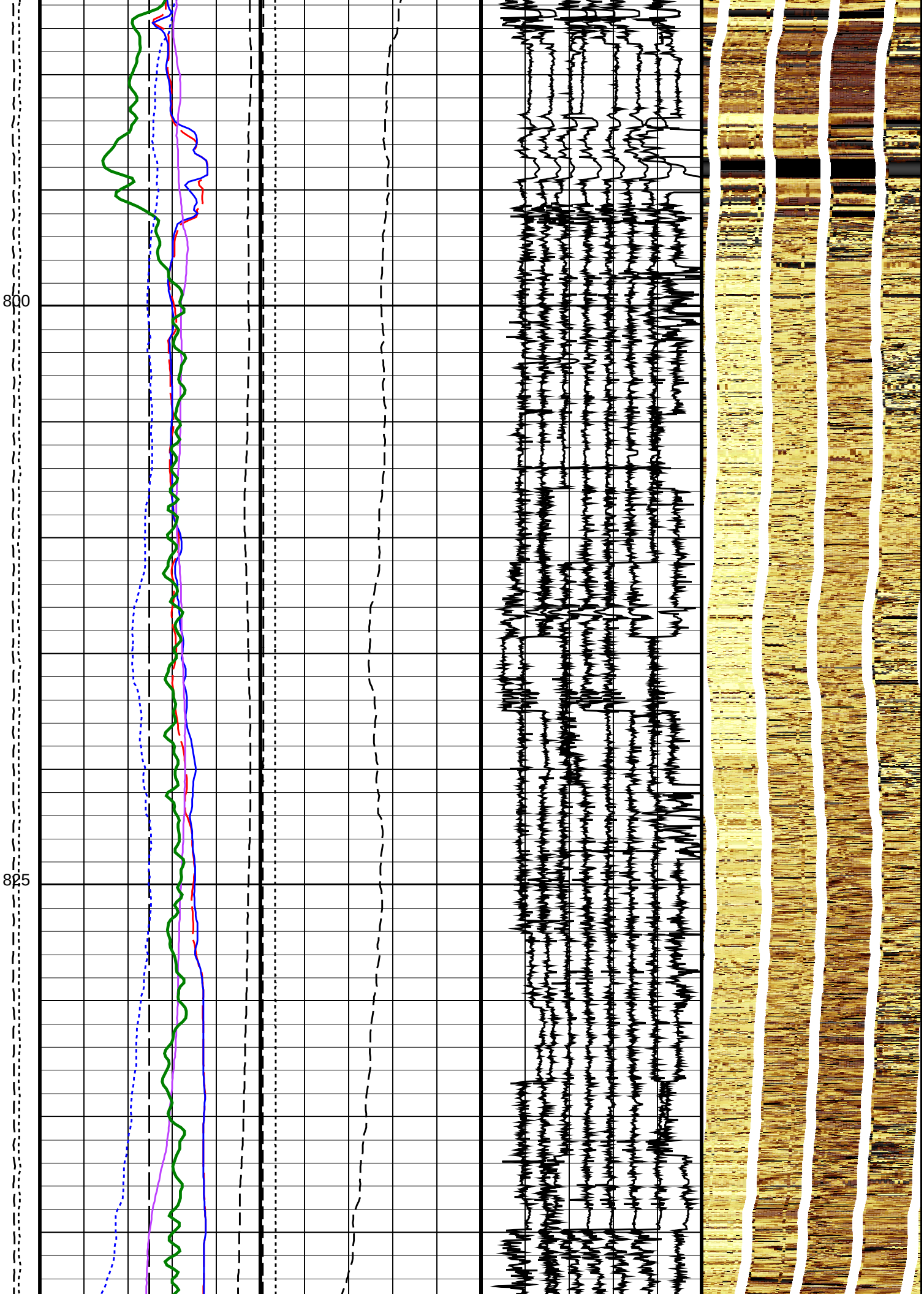
775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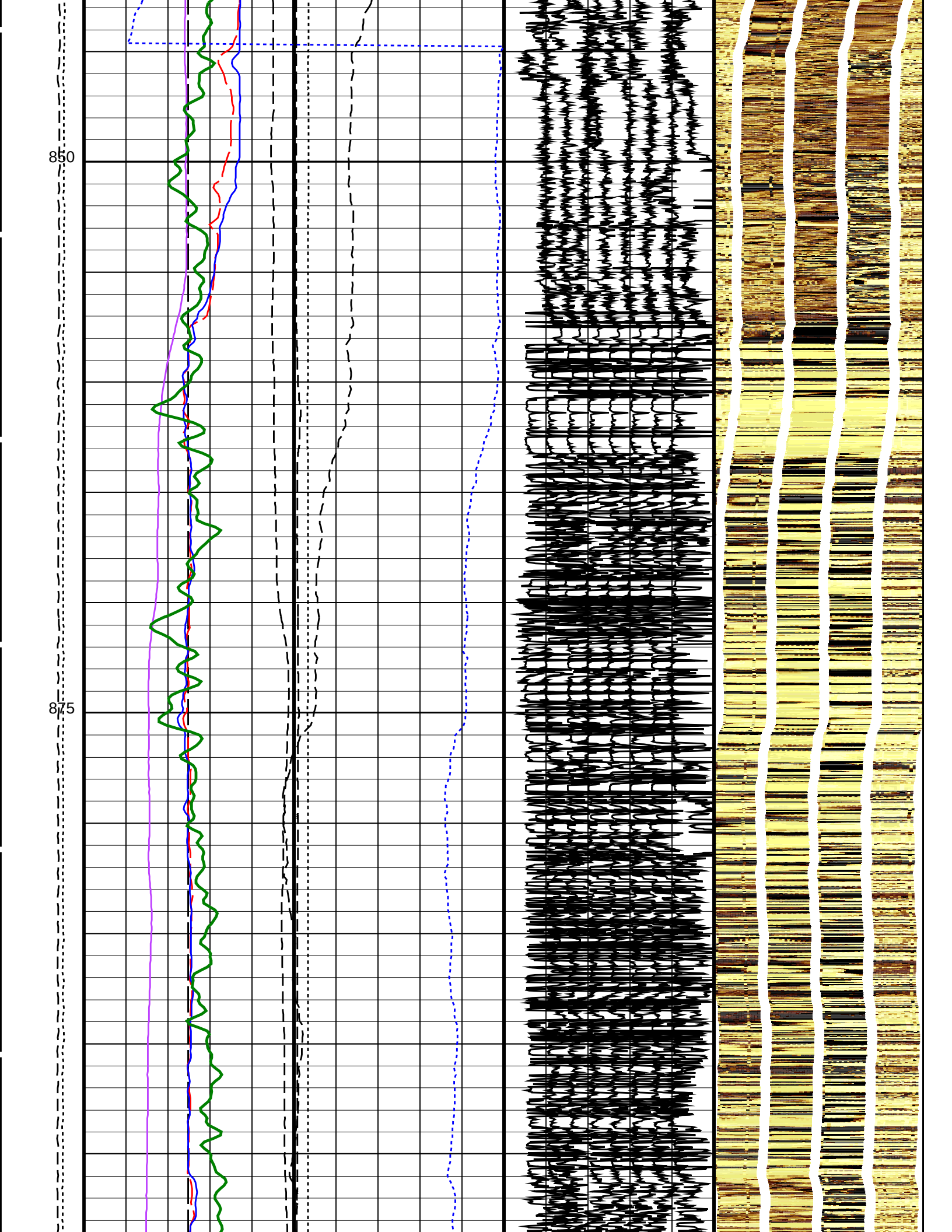
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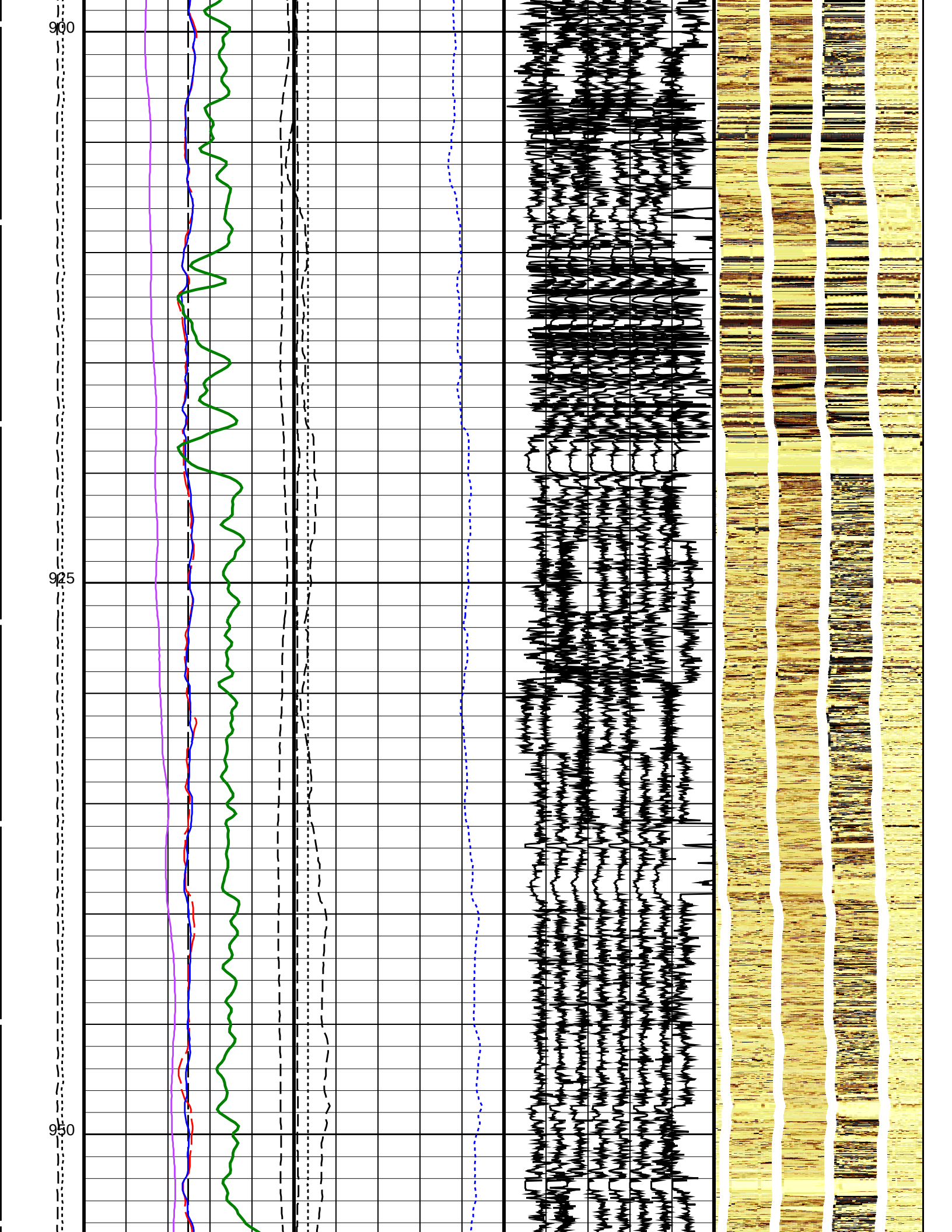
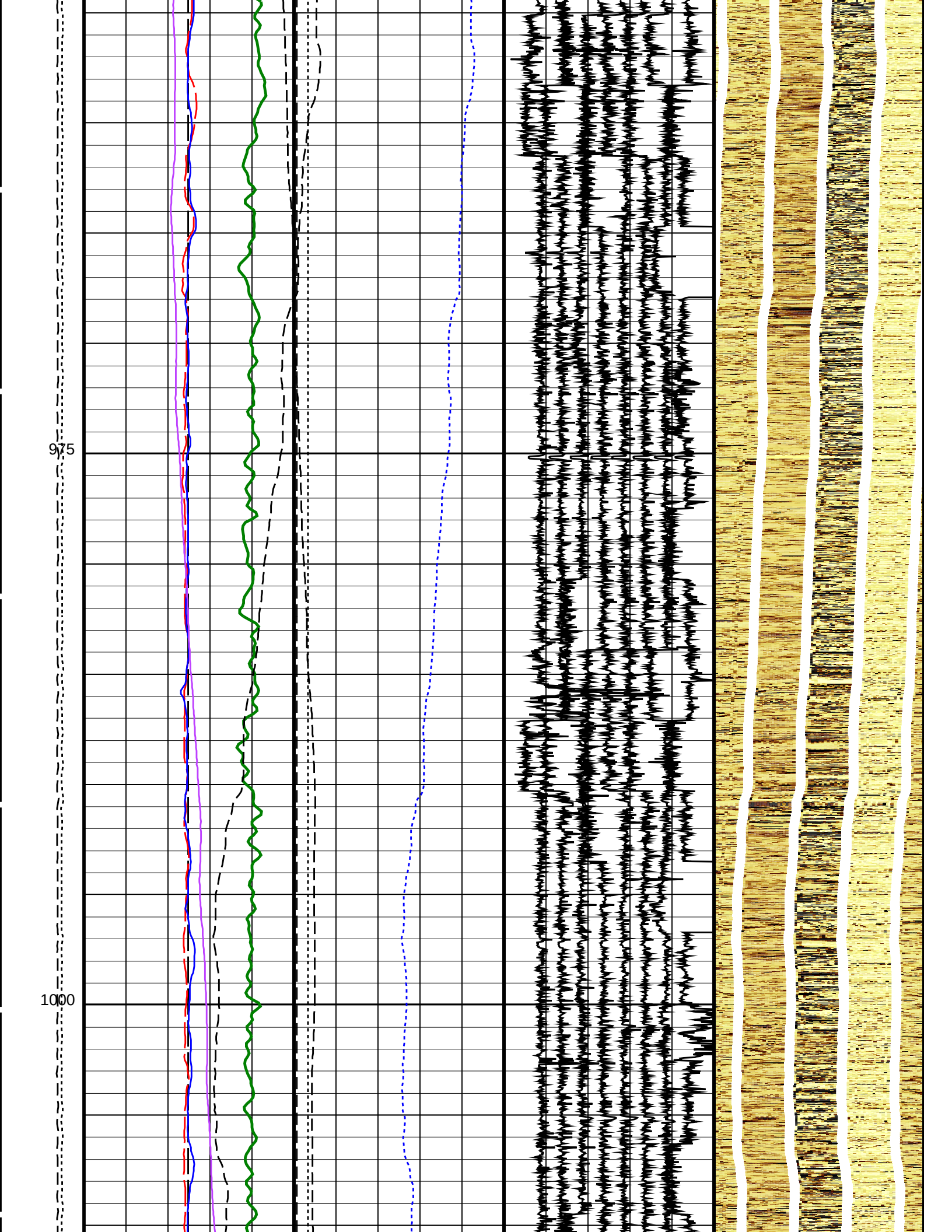

900
925
950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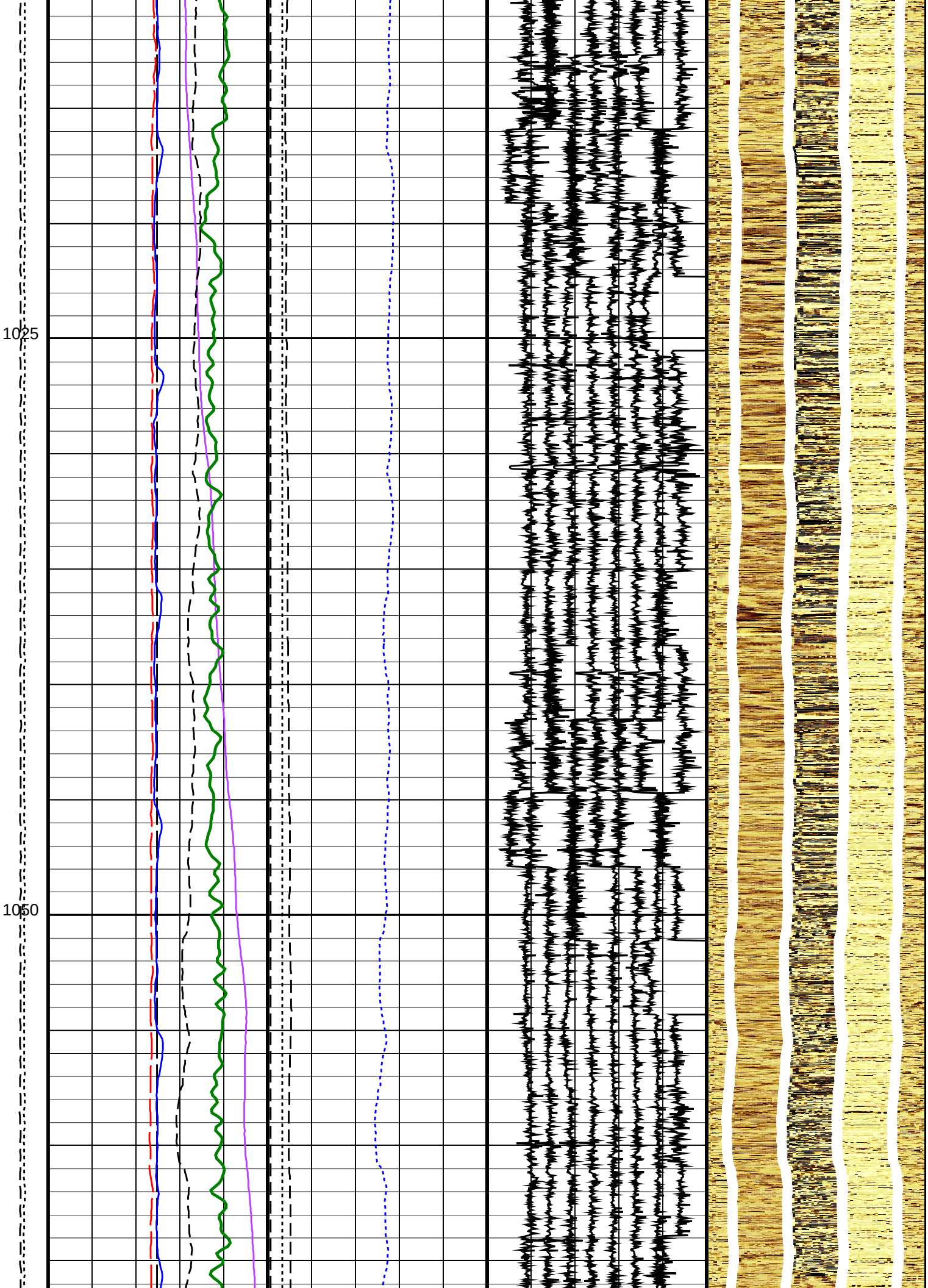
1000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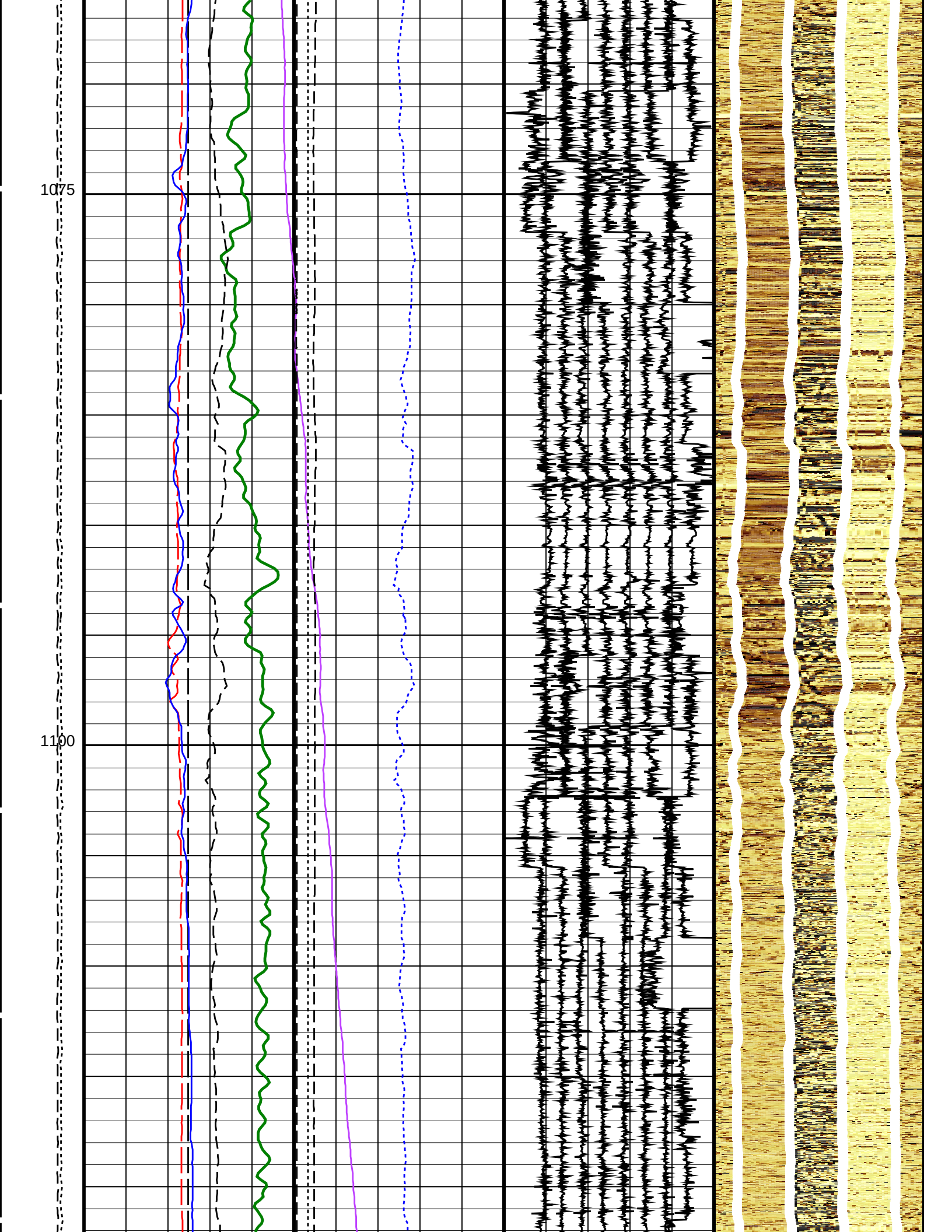
1050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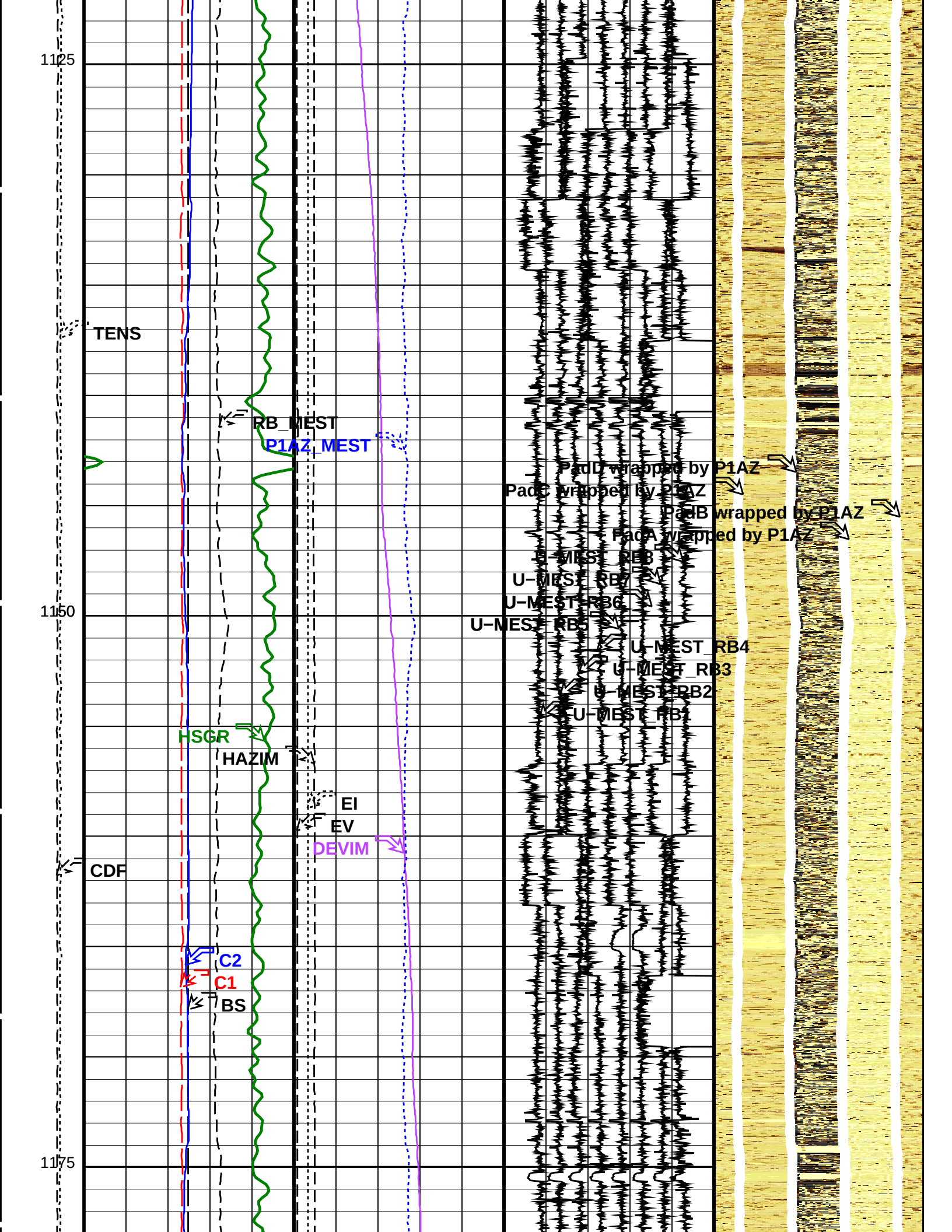
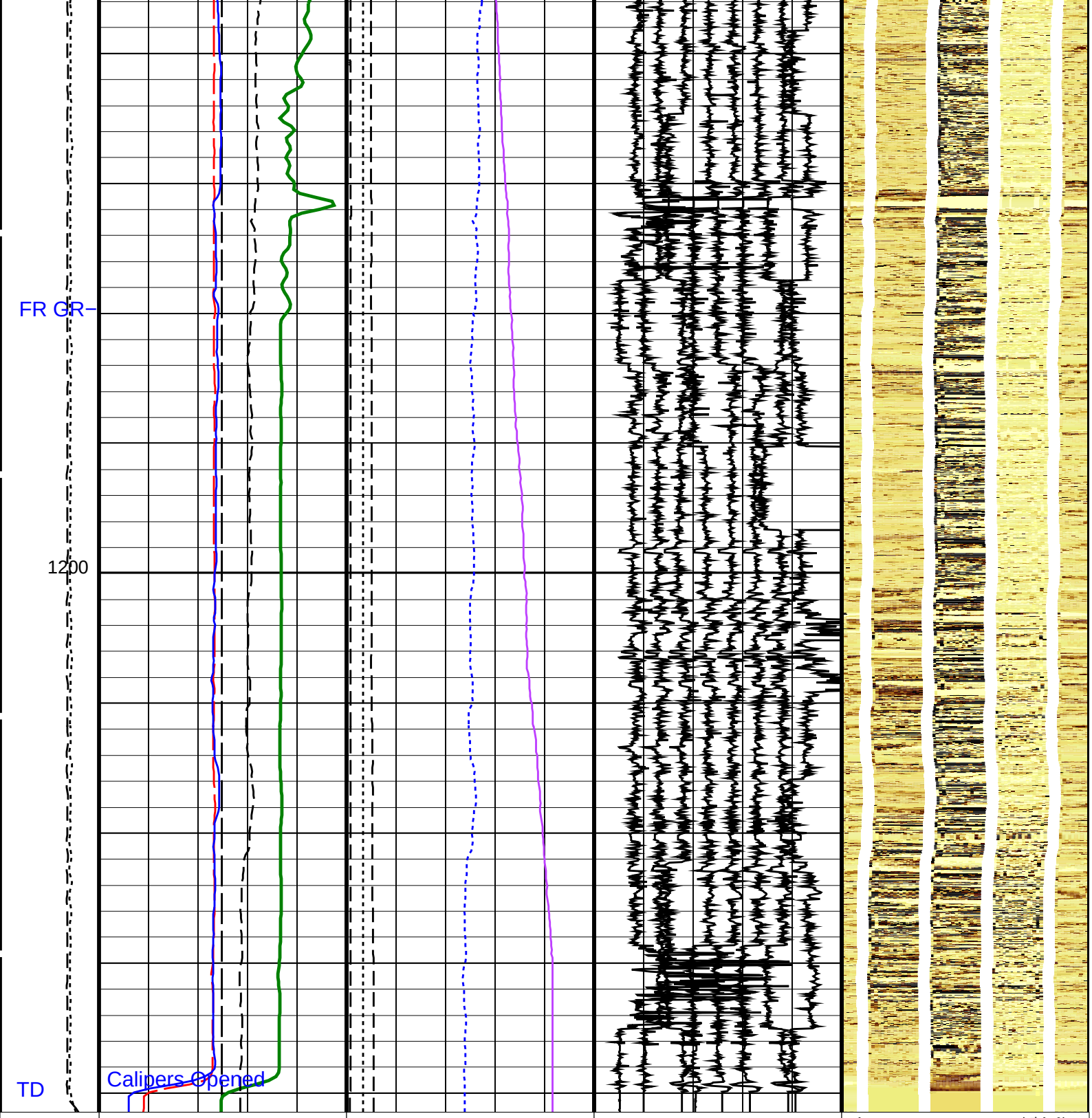

1125
1150
1175
TENS
RB_MEST
P1AZ_MEST
PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
U-MEST_RB1
HSGR
HAZIM
EI
EV
DEVIM
CDF
C2
C1
BS



Tension (TENS) (LBF) 10000 0	Bit Size (BS) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90	−0.3367 0.8877 4.1529 6.3977 7.2140 7.6222 8.0303 8.4385 8.6426 9.0507 9.4588 9.8670 10.2751 10.8874 11.9077 13.1322 MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU) (−−−−)
Calibrated Downhole Force (CDF) (LBF) 5000 0	Caliper 1 (C1) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	−0.3367 0.8877 4.1529 6.3977 7.2140 7.6222 8.0303 8.4385 8.6426 9.0507 9.4588 9.8670 10.2751 10.8874 11.9077 13.1322 MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU) (−−−−)
	Caliper 2 (C2) 0 (IN) 20	Uplog #2	Data Button 3 − Varies with RBS (U−MEST_RB3)	−0.3367 0.8877 4.1529 6.3977 7.2140 7.6222 8.0303 8.4385 8.6426 9.0507 9.4588 9.8670 10.2751 10.8874 11.9077 13.1322

0 (IN) 20		−30 (−−−−) 70	MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU) (−−−−)
Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	−0.3367, 0.8877, 4.1529, 6.3977, 7.2140, 7.6222, 8.0303, 8.4385, 8.6426, 9.0507, 9.4588, 9.8670, 10.2751, 10.8874, 11.9077, 13.1322 MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU) (−−−−)
Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	
Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30	
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100		Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MEST−B: Micro Electrical Scanner − B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	113.773	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00261849	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.966109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970636	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:200 Graphics File Created: 22−Jan−2018 19:59

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_057PUP	FN:80	PRODUCER	22−Jan−2018 19:39	1220.7 M	561.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:82	PRODUCER	22−Jan−2018 19:59

Company: International Ocean Discovery Program **Well: Expedition 374, Site U1521A**

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51	1220.7 M	674.2 M

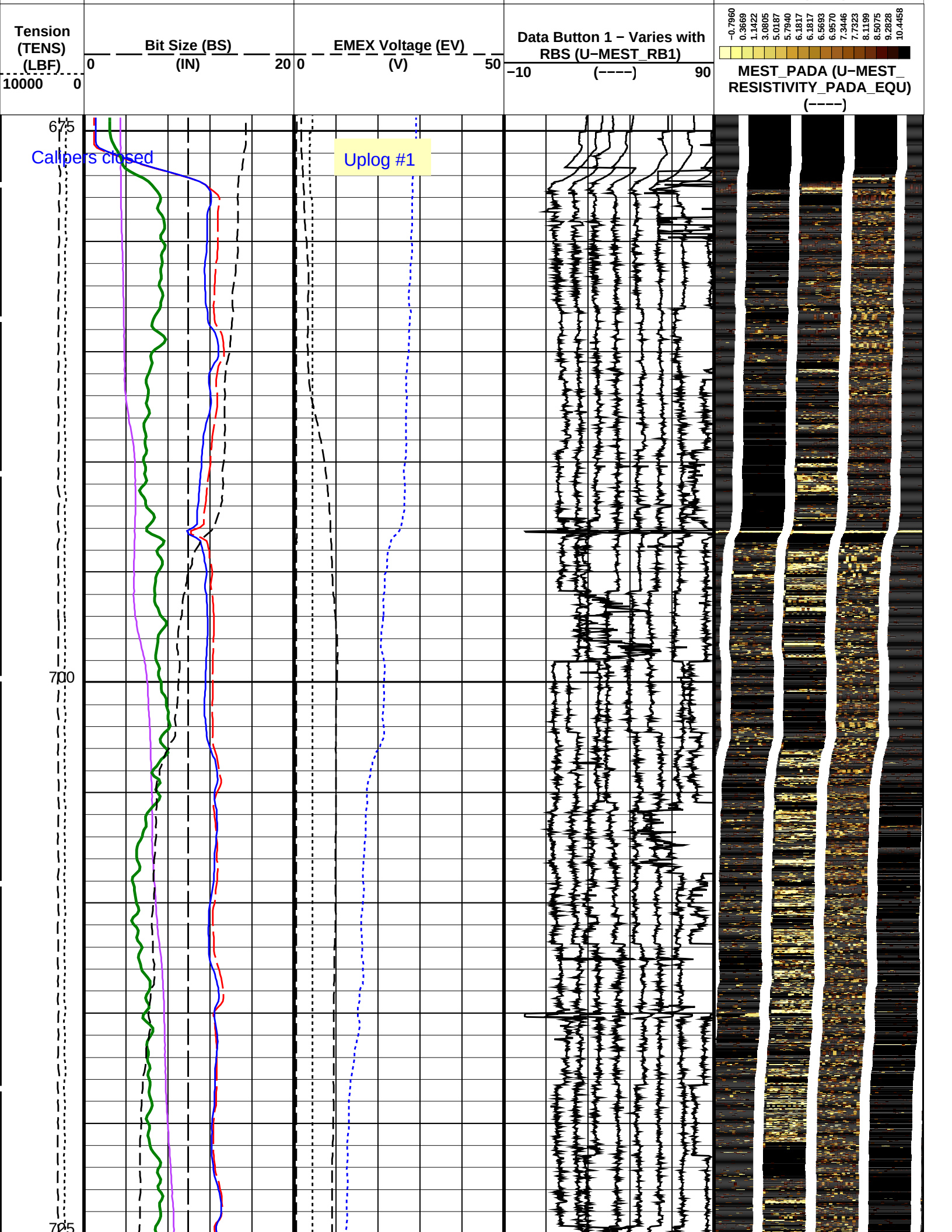
OP System Version: 19C0−187

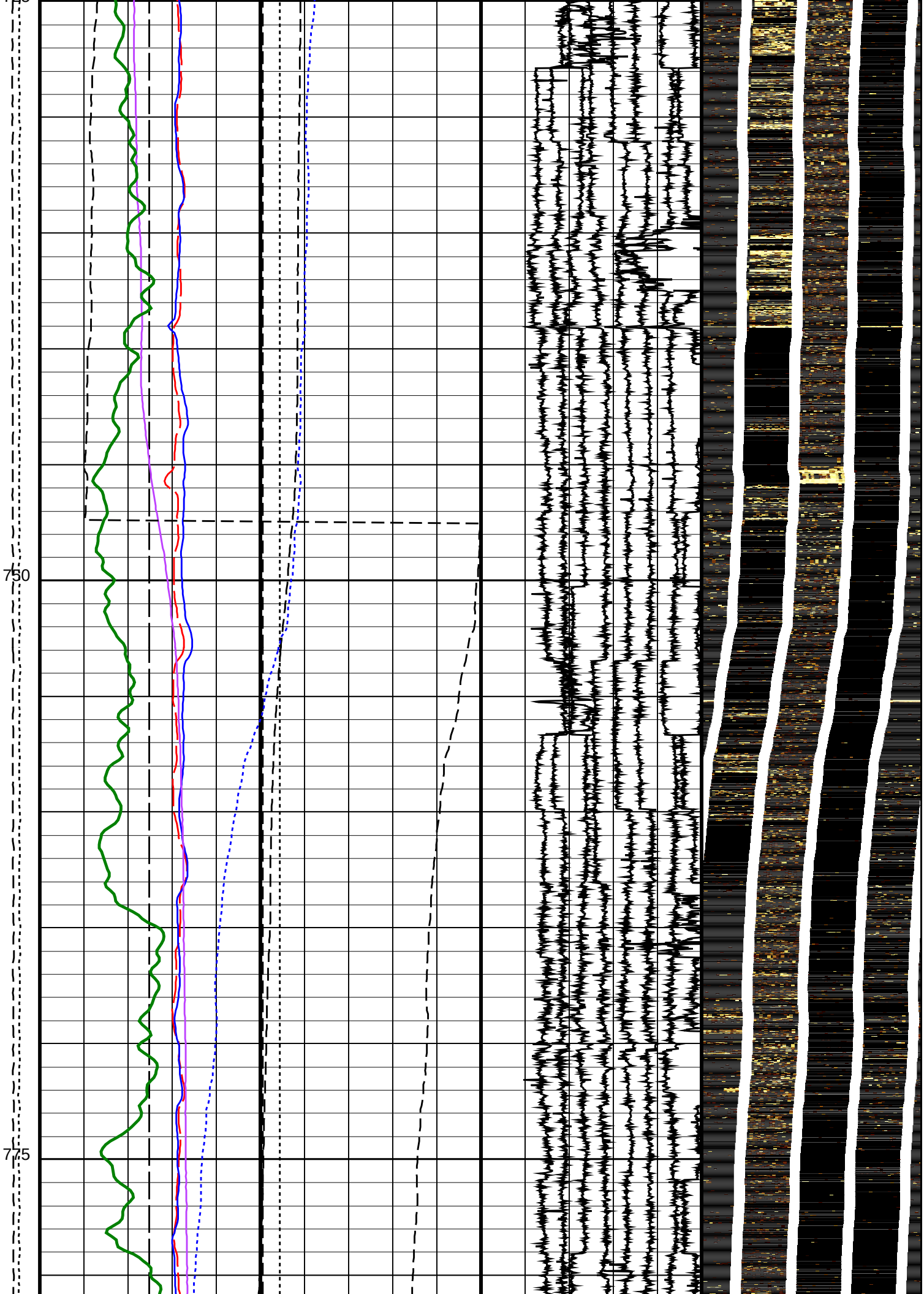
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

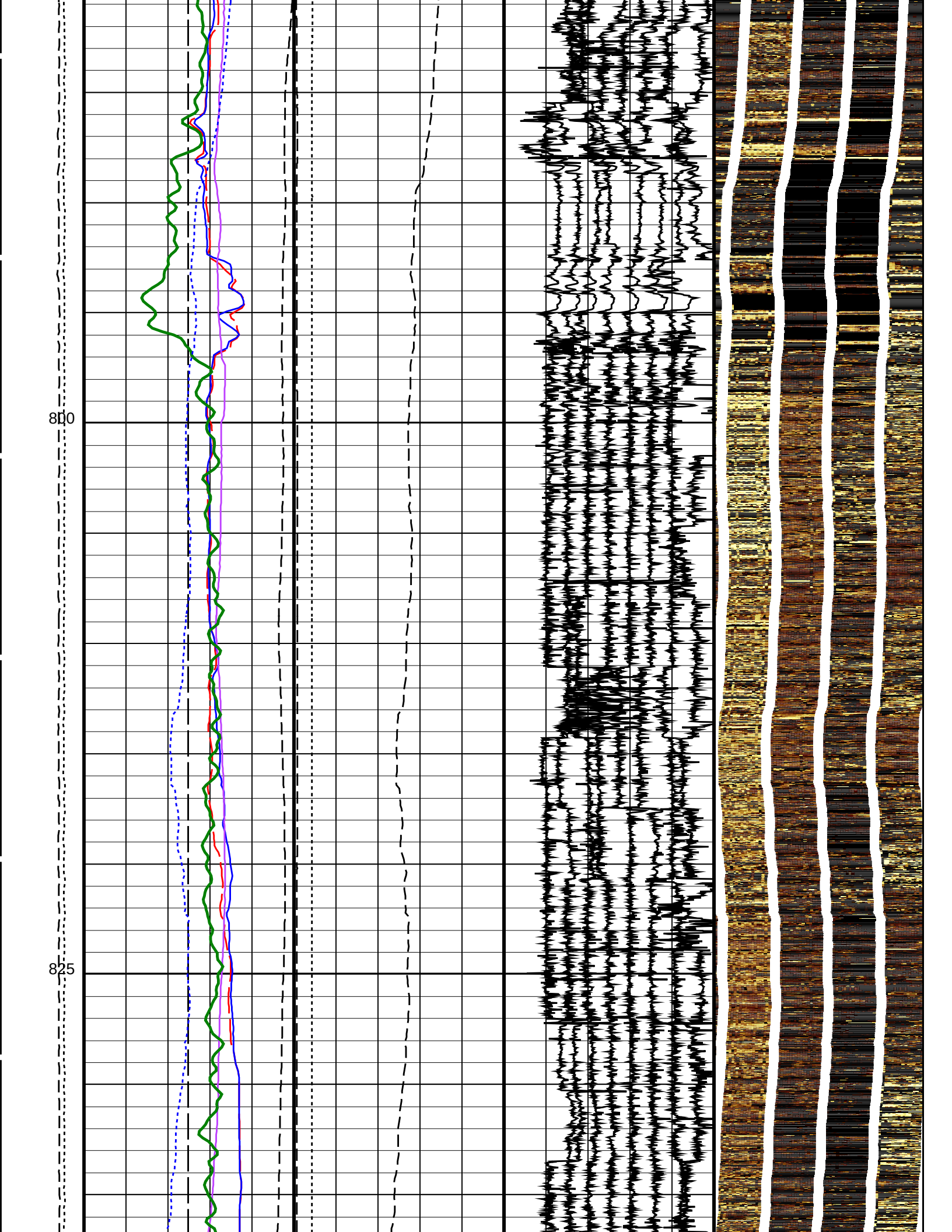
PIP SUMMARY

Time Mark Every 60 S

	HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100	Uplog 1	Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20	
	Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30	
	Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
	Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	
	Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	−0.7960 0.3669 1.1422 3.0805 5.0187 5.7940 6.1817 6.1817 6.5693 6.9570 7.3446 7.7323 8.1199 8.5075 9.2828 10.4458 MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU) (−−−−)
	Caliper 2 (C2) 0 (IN) 20		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	−0.7960 0.3669 1.1422 3.0805 5.0187 5.7940 6.1817 6.1817 6.5693 6.9570 7.3446 7.7323 8.1199 8.5075 9.2828 10.4458 MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU) (−−−−)
Calibrated Downhole Force (CDF) (LBF) 5000 0	Caliper 1 (C1) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	−0.7960 0.3669 1.1422 3.0805 5.0187 5.7940 6.1817 6.1817 6.5693 6.9570 7.3446 7.7323 8.1199 8.5075 9.2828 10.4458 MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU) (−−−−)


Tension (TENS) (LBF)
10000
0
Bit Size (BS) (IN)
0
20
EMEX Voltage (EV) (V)
0
50
Data Button 1 − Varies with RBS (U−MEST_RB1) (−−−−)
−10
90
−0.7960
0.3669
1.1422
3.0805
5.0187
5.7940
6.1817
6.1817
6.5693
6.9570
7.3446
7.7323
8.1199
8.5075
9.2828
10.4458
MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU) (−−−−)
675
700
705
Calipers closed
Uplog #1


750
775


800
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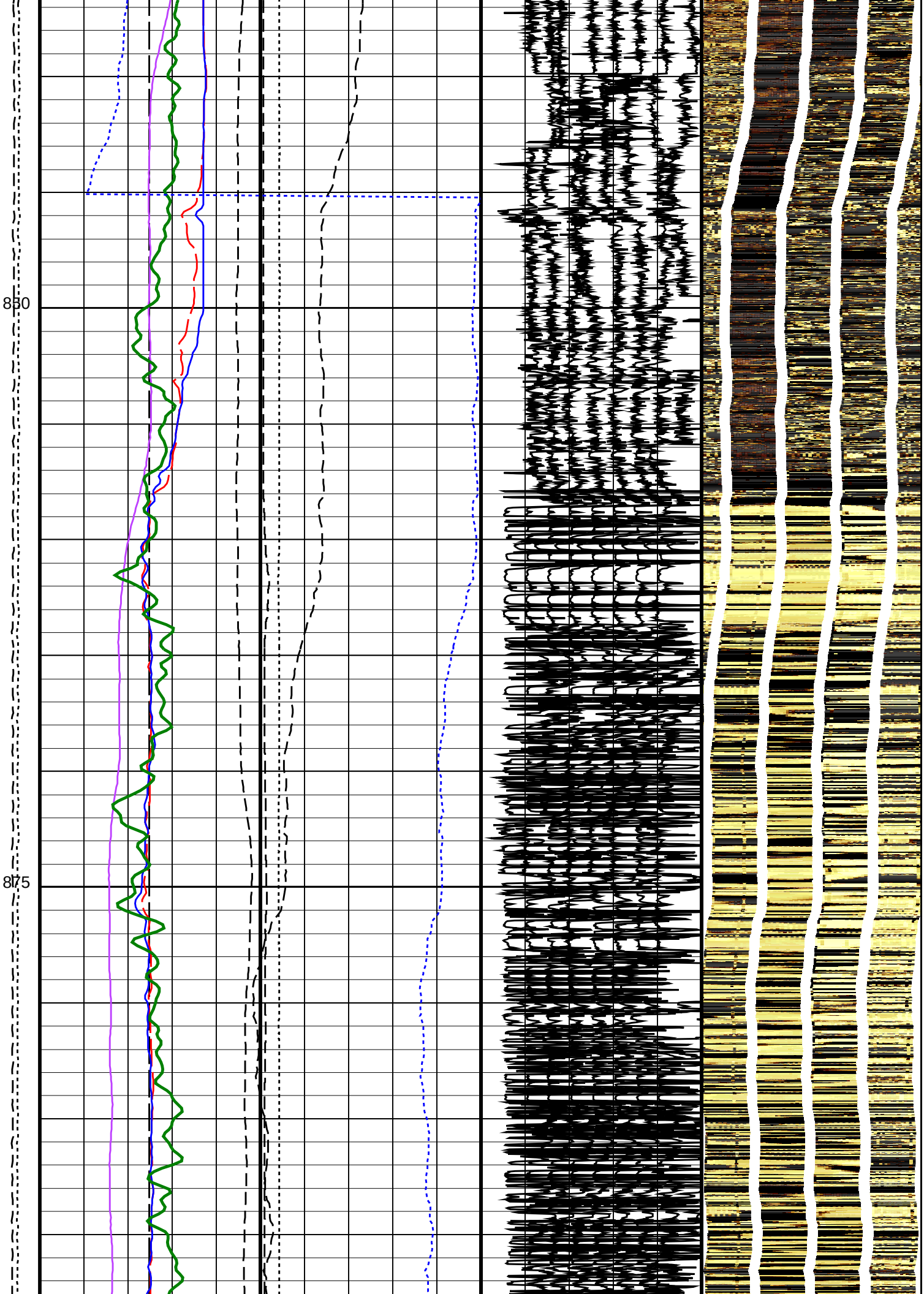
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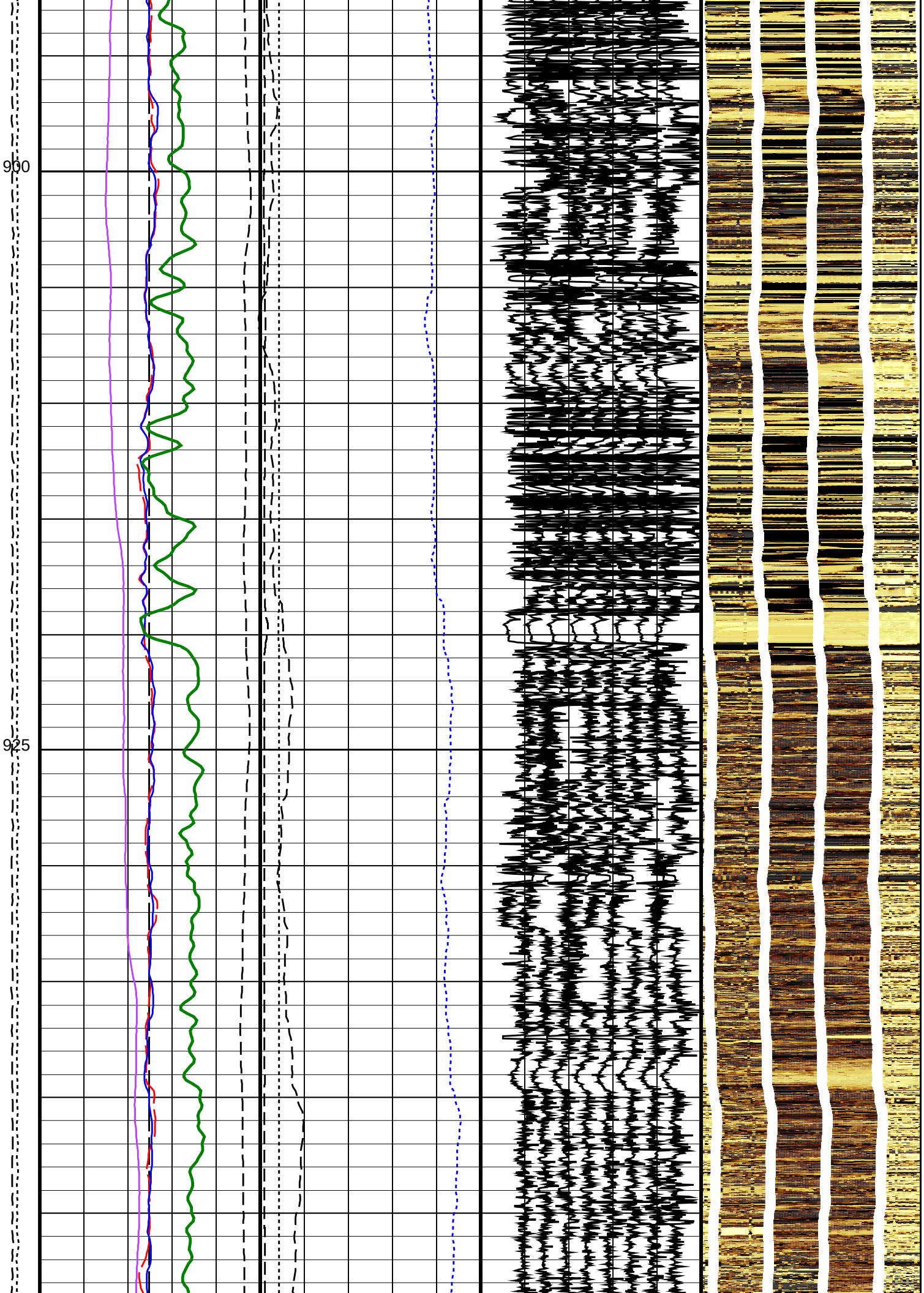
900
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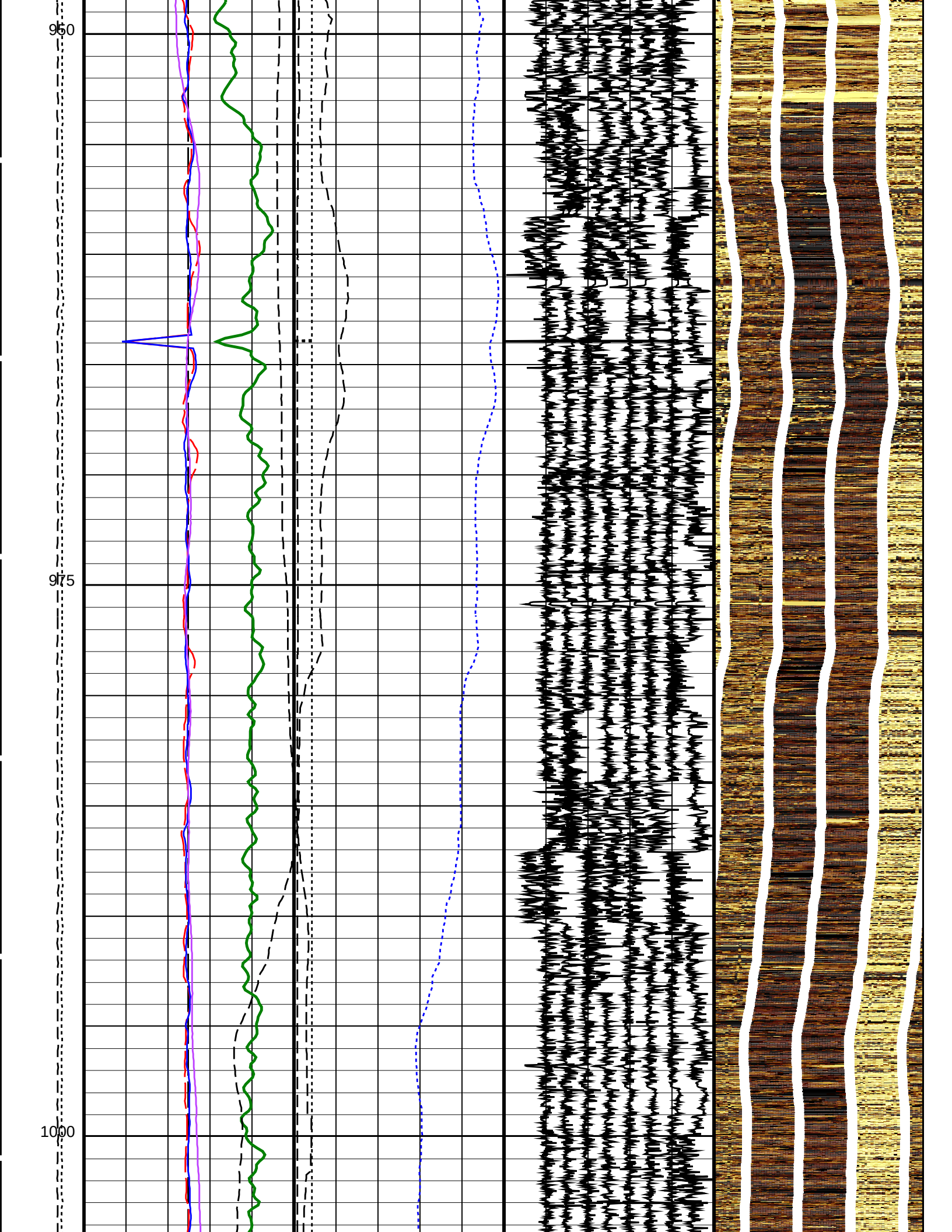
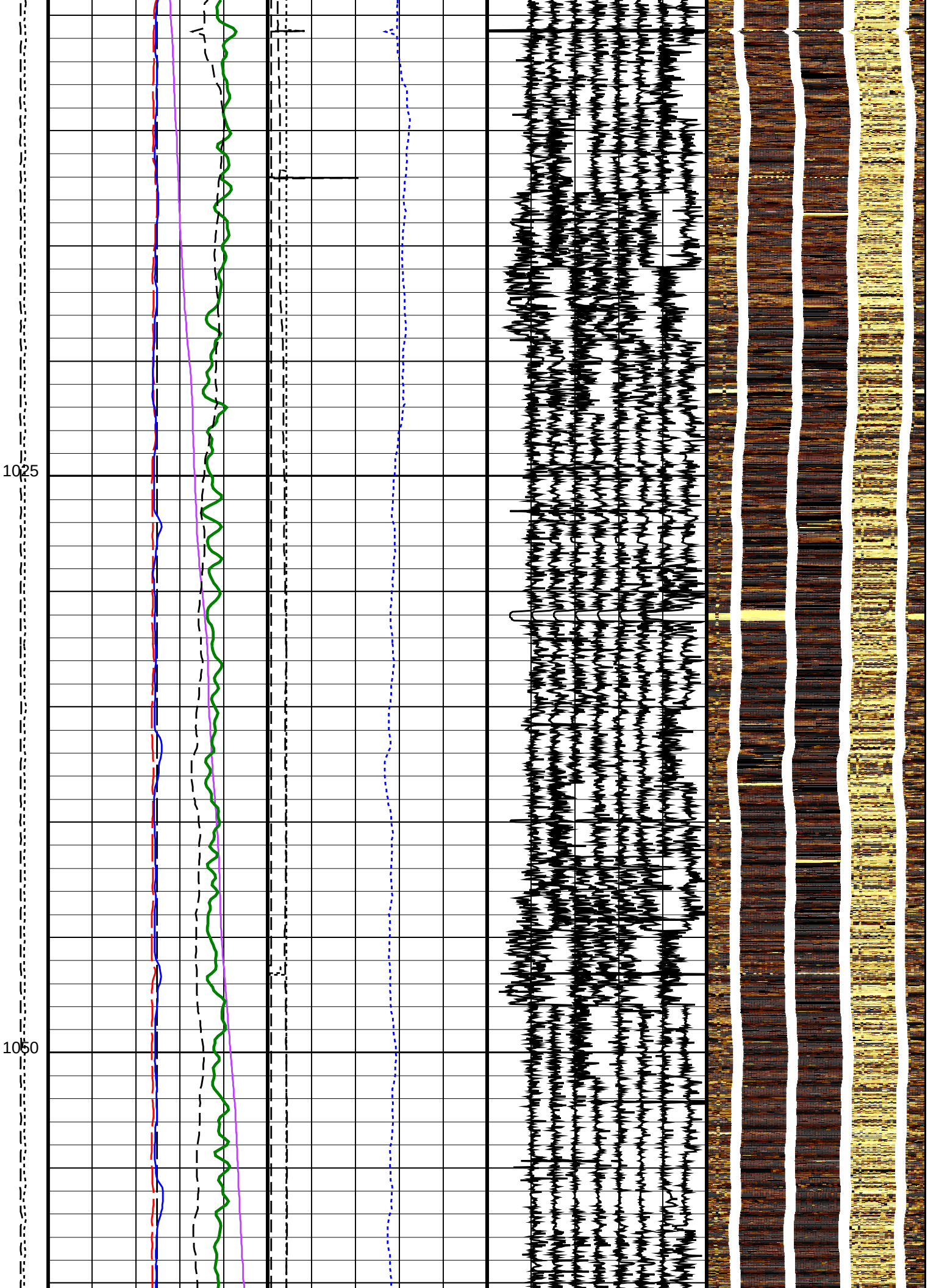

950
975
1000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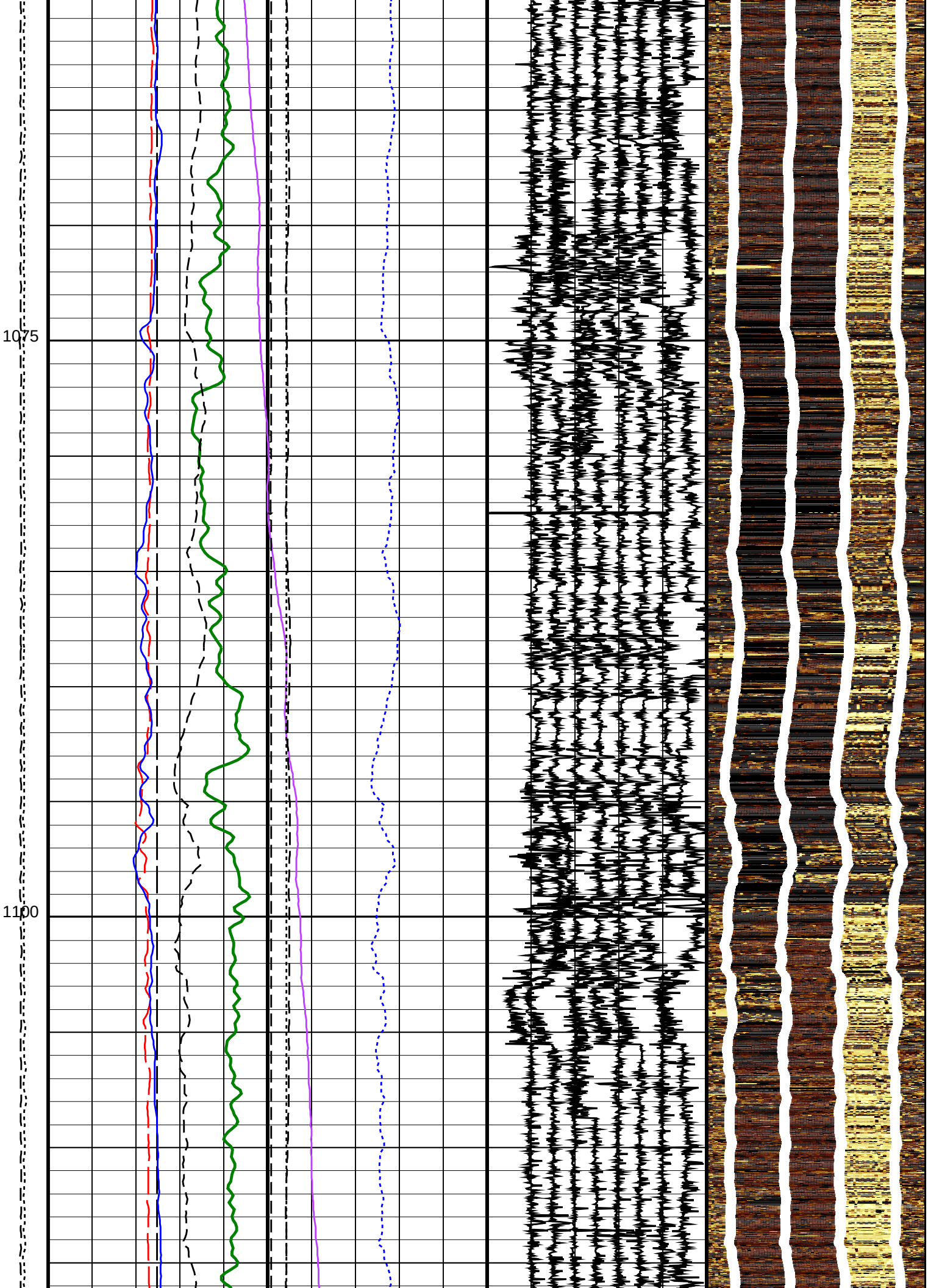
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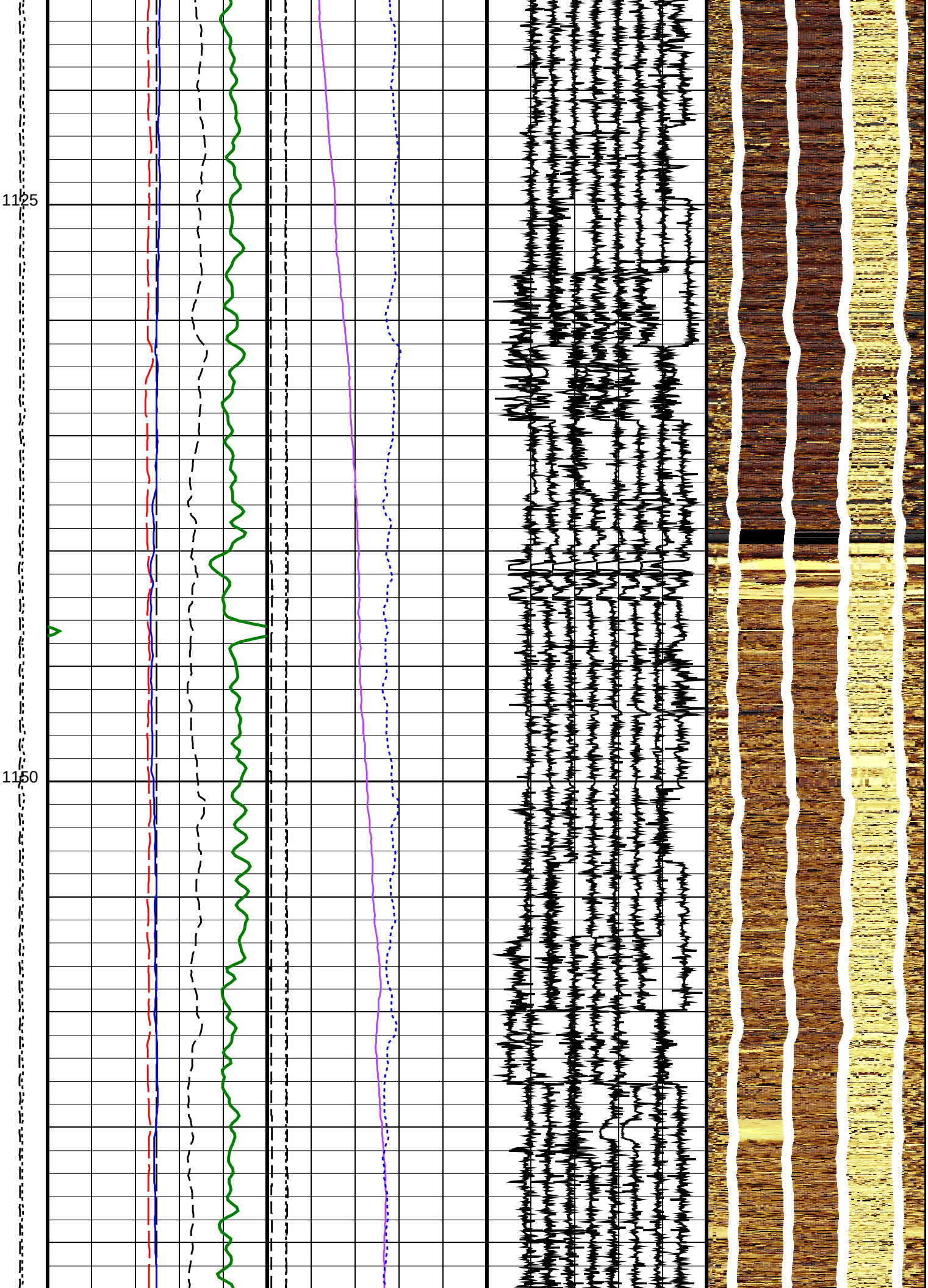
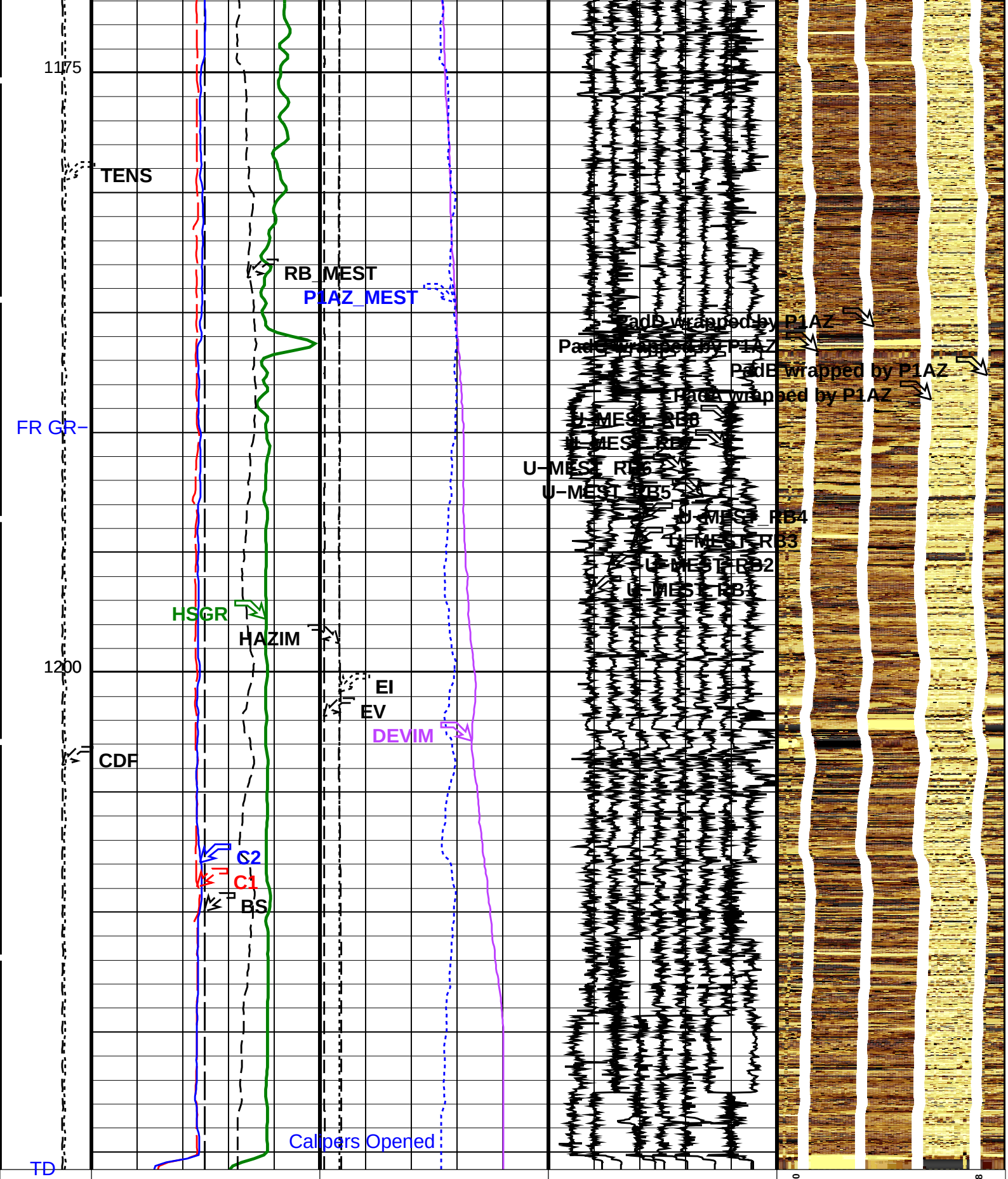

1125
1150



Tension (TENS) (LBF)	Bit Size (BS) (IN)	EMEX Voltage (EV) (V)	Data Button 1 − Varies with RBS (U−MEST_RB1) (−−−−)	MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU) (−−−−)
10000 0	0 20	0 50	−10 90	−0.7960 0.3669 1.1422 3.0805 5.0187 5.7940 6.1817 6.1817 6.5693 6.9570 7.3446 7.7323 8.1199 8.5075 9.2828 10.4458

Calibrated Downhole Force	Caliper 1 (C1)	EMEX Intensity (EI)	Data Button 2 − Varies with

Force (CDF) (LBF) 5000 0	Caliper 1 (C1) 0 (IN) 20	0 (AMPS) 10	RBS (U−MEST_RB2) −20 (−−−−) 80	MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU) (−−−−)
	Caliper 2 (C2) 0 (IN) 20	Uplog #1	Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	−0.7960 0.3669 1.1422 3.0805 5.0187 5.7940 6.1817 6.1817 6.5693 6.9570 7.3446 7.7323 8.1199 8.5075 9.2828 10.4458 MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU) (−−−−)
	Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	−0.7960 0.3669 1.1422 3.0805 5.0187 5.7940 6.1817 6.1817 6.5693 6.9570 7.3446 7.7323 8.1199 8.5075 9.2828 10.4458 MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU) (−−−−)
	Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	
	Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
	Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30	
	HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100	Uplog 1	Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MEST−B: Micro Electrical Scanner − B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	113.773	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.0023129	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.977875	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.985679	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	

GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ **Vertical Scale: 1:200** **Graphics File Created: 22−Jan−2018 19:51**

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:78	PRODUCER	22−Jan−2018 19:28	1220.7 M	674.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:81	PRODUCER	22−Jan−2018 19:51

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner − B (Slim) Wellsite Calibration − Caliper Calibration							
Before: 6−Jan−2018 12:36							
Caliper 1 Zero Measurement	12.00	N/A	12.80	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.57	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.30	N/A	15.71	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.30	N/A	15.56	N/A	N/A	N/A	IN
Micro Electrical Scanner − B (Slim) Wellsite Calibration − CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 21−Jan−2018 4:21							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	
Micro Electrical Scanner − B (Slim) Wellsite Calibration − CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 21−Jan−2018 4:21							
TEMPERATURE REFERENCE :	N/A	N/A	19	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	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 1 Check							
Master: 8−Jan−2018 8:17 Before: 8−Jan−2018 8:24 After: 8−Jan−2018 8:28							
Na 511 Peak Loc	40.00	39.59	39.50	39.53	0.03088	1.000	
Na 511 Peak Res	15.50	15.64	15.76	15.55	−0.2126	2.000	%
High Voltage	1150	1167	1168	1167	−0.5190	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.4	141.4	−0.9820	7.000	
Na 1785 Peak Res	8.500	7.971	7.952	8.609	0.6569	2.000	%
Temperature	15.50	23.45	23.49	23.47	−0.01946	N/A	DEGC
Na Count Rate	45.00	25.59	25.54	25.12	−0.4170	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check							
Master: 8−Jan−2018 8:17 Before: 8−Jan−2018 8:24 After: 8−Jan−2018 8:28							
Na 511 Peak Loc	40.00	39.56	39.59	39.54	−0.04964	1.000	
Na 511 Peak Res	15.50	15.96	16.38	16.21	−0.1689	2.000	%
High Voltage	1150	1099	1099	1099	−0.02441	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.1	141.4	−0.7477	7.000	
Na 1785 Peak Res	8.500	8.488	7.561	8.675	1.114	2.000	%
Temperature	15.50	24.00	24.04	24.04	0.001623	N/A	DEGC
Na Count Rate	45.00	25.29	25.32	24.99	−0.3324	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2							
Master: 8−Jan−2018 8:17 Before: 8−Jan−2018 8:24 After: 8−Jan−2018 8:28							
Coincidence Count Rate Ratio	1.000	1.012	1.007	1.005	−0.001922	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration − Detector 1 Calibration							

Master: 8−Jan−2018 8:08

Na 511 Peak Set Point	40.00	41.00	−−	−−	−−	−−	
Th Peak Loc	209.6	209.5	−−	−−	−−	−−	
Th Peak Res	7.000	6.944	−−	−−	−−	−−	%
Background Count Rate	142.5	28.74	−−	−−	−−	−−	CPS
Gain Ratio	1.000	1.006	−−	−−	−−	−−	

Hostile Natural Gamma Ray Sonde Master Calibration − Detector 2 Calibration
Master: 8−Jan−2018 8:08

Na 511 Peak Set Point	40.00	41.00	−−	−−	−−	−−	
Th Peak Loc	209.6	209.2	−−	−−	−−	−−	
Th Peak Res	7.000	6.965	−−	−−	−−	−−	%
Background Count Rate	142.5	27.70	−−	−−	−−	−−	CPS
Gain Ratio	1.000	1.006	−−	−−	−−	−−	

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration
Before: 21−Jan−2018 4:22

EDTC Z−Axis Acceleration	9.810	N/A	9.798	N/A	N/A	N/A	M/S2

Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration
Before: 8−Jan−2018 7:48 After: 8−Jan−2018 8:26

Gamma Ray (Jig − Bkg)	139.2	N/A	139.2	139.5	0.3707	12.65	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	164.4	0.4368	15.00	GAPI

Micro Electrical Scanner − B (Slim) / Equipment Identification

Primary Equipment:		
MEST Sonde − B	MEDS − B	724
MEST Preamplifier Cartridge − AB	MEPC − AB	806
GPIT Cartridge − AC	GPIC − AC	840
MEST Acquisition Cartridge − A	MEAC − A	804
Auxiliary Equipment:		
MEST−B Preamplifier Cartridge Housing	MEPH − A	701
MEST Acquisition Cartridge Housing (Slim	MEAH − B	769

Hostile Natural Gamma Ray Cartridge − B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC − B	304
Auxiliary Equipment:		
HNGC Housing	HNGH − A	3

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS − BA	194
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH − BA	204
Gamma Source Radioactive	GSR − U	6098

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		39.59	Master		15.64	Master		1167
Before		39.50	Before		15.76	Before		1168
After		39.53	After		15.55	After		1167
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		142.6	Master		7.971	Master		23.45
Before		142.4	Before		7.952	Before		23.49
After		141.4	After		8.609	After		23.47

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		25.59
Before		25.54
After		25.12
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 8−Jan−2018 8:17 Before: 8−Jan−2018 8:24 After: 8−Jan−2018 8:28

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		15.96	Master		1099
Before		39.59	Before		16.38	Before		1099
After		39.54	After		16.21	After		1099
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		141.9	Master		8.488	Master		24.00
Before		142.1	Before		7.561	Before		24.04
After		141.4	After		8.675	After		24.04
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		25.29
Before		25.32
After		24.99
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 8−Jan−2018 8:17 Before: 8−Jan−2018 8:24 After: 8−Jan−2018 8:28

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		1.012
Before		1.007
After		1.005
0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)

Master: 8−Jan−2018 8:17
Before: 8−Jan−2018 8:24
After: 8−Jan−2018 8:28

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 1 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		209.5	Master		6.944
38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)

Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value
Master		28.74	Master		1.006
10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)

Master: 8−Jan−2018 8:08

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		209.2	Master		6.965

38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)

Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value
Master		27.70	Master		1.006
10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)

Master: 8−Jan−2018 8:08

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		9.798
9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)

Before: 21−Jan−2018 4:22

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		8.772	Before		139.2	Before		164.0
After		8.903	After		139.5	After		164.4
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	126.5 (Minimum)	139.2 (Nominal)	151.8 (Maximum)	149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)

Before: 8−Jan−2018 7:48 After: 8−Jan−2018 8:26

Company: **International Ocean Discovery Program**

Schlumberger

Well: **Expedition 374, Site U1521A**
Field: **Ross Sea W. Antarctic Ice Sheet History**
Rig: **JOIDES Resolution**
Ocean: **Southern**

Formation Micro Scanner (FMS)
Dipole Shear Sonic Imager (DSSI)
Hostile Natural Gamma Ray (HNGS)