



Company: **Lamont Doherty Earth Observatory**

Well: **Expedition 341, Site U1421A**

Field: **Southern Alaska Margin Tectonics**Rig: **JOIDES Resolution** Ocean: **Pacific**

Rig: JOIDES Resolution Field: Southern Alaska Margin Tectonic Location: Latitude: N 59° 30.4399' Well: Expedition 341, Site U1421A Company: Lamont Doherty Earth Observatory	Dipole Shear Sonic Imager (DSI) Upper / Lower Dipole Shear Monopole Compressional / GR / Caliper			
	LOCATION	Latitude: N 59° 30.4399' Longitude: W 143° 2.7395'		Elev.: K.B. -729.70 m G.L. 0.00 m D.F. -729.70 m
		Permanent Datum: Sea Floor		Elev.: 0.00 m
		Log Measured From: Sea Floor		0.00 m above Perm. Datum
		Drilling Measured From: Sea Floor		
API Serial No.		Max. Hole Devi. 0 deg	Longitude W 143.04565	Latitude N 59.5073

Logging Date			27-Jul-2013					
Run Number			1					
Depth Driller			702.7 m					
Schlumberger Depth			694 m					
Bottom Log Interval			694 m					
Top Log Interval			0 m					
Casing Driller Size @ Depth			5.500 in @ 96.6 m			@		
Casing Schlumberger			92 m					
Bit Size			11.438 in					
Type Fluid In Hole			Heavy weighted Barite mud					
MUD	Density	Viscosity	1.4139 g/cm3					
	Fluid Loss	PH						
	Source Of Sample		N/A					
	RM @ Measured Temperature		@			@		
RMF @ Measured Temperature		@			@			
RMC @ Measured Temperature		@			@			
Source RMF	RMC	N/A	N/A					
RM @ MRT	RMF @ MRT	@ 18	@ 18	@	@			
Maximum Recorded Temperatures			18 degC					
Circulation Stopped		Time	27-Jul-2013		1:00			
Logger On Bottom		Time	27-Jul-2013		04:11			
Unit Number		Location	625003 Houston					
Recorded By			K. Swain					
Witnessed By			A. Slagle, L. Drab					

[illegible]

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





DISCLAIMER

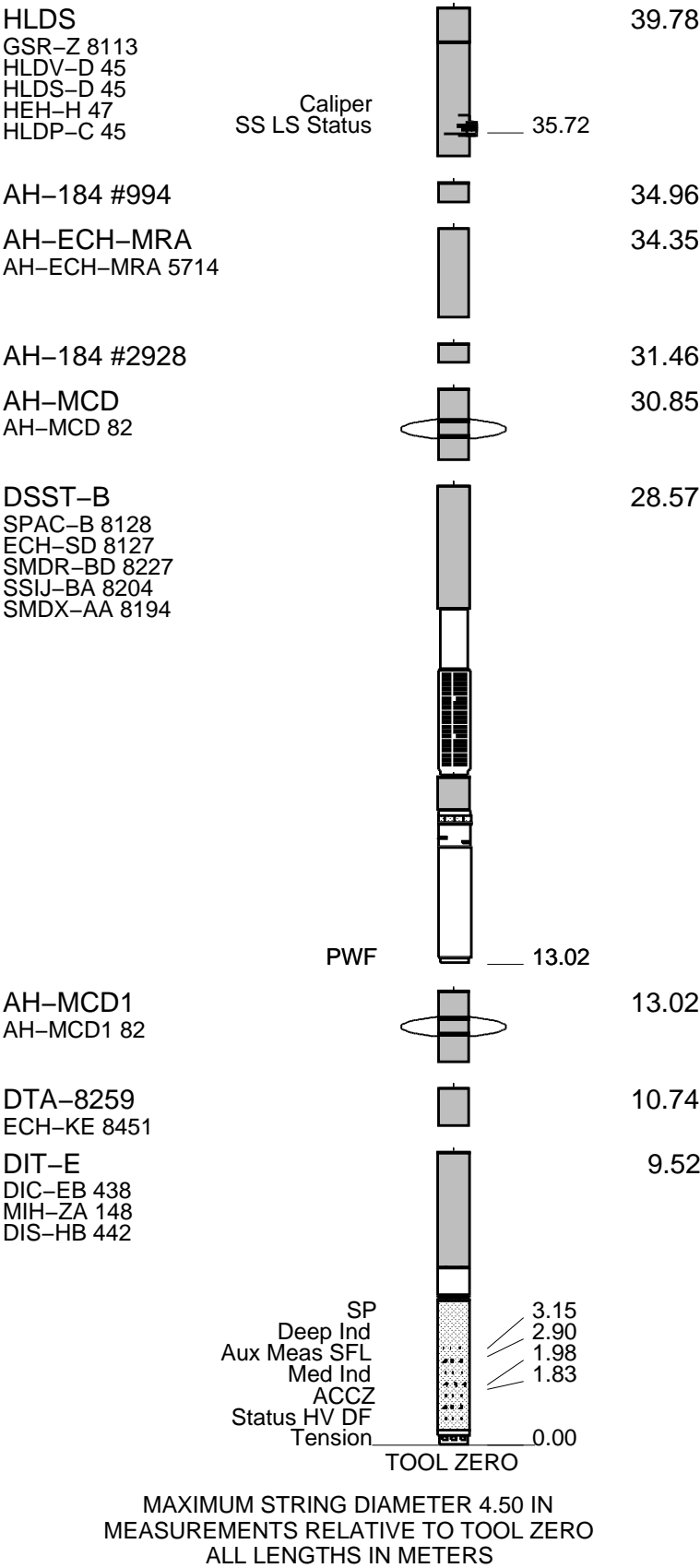
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole drilled with APC/XCB coring bit and bottom hole assembly (BHA). 11.43" BS	
Heavy weighted barite mud at 10.6 lb/gal pumped in hole prior to logging.	

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

<p style="text-align: center;">SURFACE EQUIPMENT</p> <p>WITM (EDTS)-A 1</p>	
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DOWNHOLE EQUIPMENT				
LEH-MT 101	MDSB_EDTC			
	Mud Tempe		42.82	43.78
	CTEM		41.76	
	Gamma Ray		41.19	
EDTC-B 8317	EFTB DIAG			42.82
EDTH-B 8303	TelStatus			
EDTC-B 8317 8317	EDTCB Ele		40.84	
LDSC-B	LDSC Stat		40.31	40.84



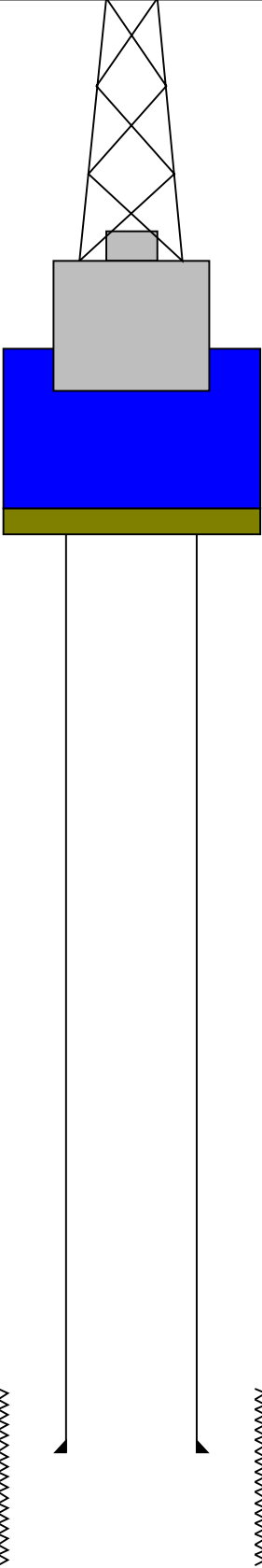
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	OD	

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-729.7
-729.7

-718.5



4.1

0
96.6

702.7

3.80
11.43

Sea Floor
Open Hole

Total Depth

Input DLIS Files						
DEFAULT	PI_DSI_LDL_018PUP	FN:29	PRODUCER	27-Jul-2013 15:01	1424.9 M	606.6 M
Output DLIS Files						
DEFAULT	PI_DSI_LDL_021PUP	FN:35	PRODUCER	27-Jul-2013 15:11	694.9 M	-166.0 M
BACKUP	PI_DSI_LDL_021PUP	FN:36	PRODUCER	27-Jul-2013 15:11	694.9 M	-166.0 M
OP System Version: 19C0-187						
DIT-E	19C0-187		DTA-8259	19C0-187		
DSST-B	19C0-187		HLDS	19C0-187		
LDSC-B	19C0-187		EDTC-B	8317		

PIP SUMMARY	
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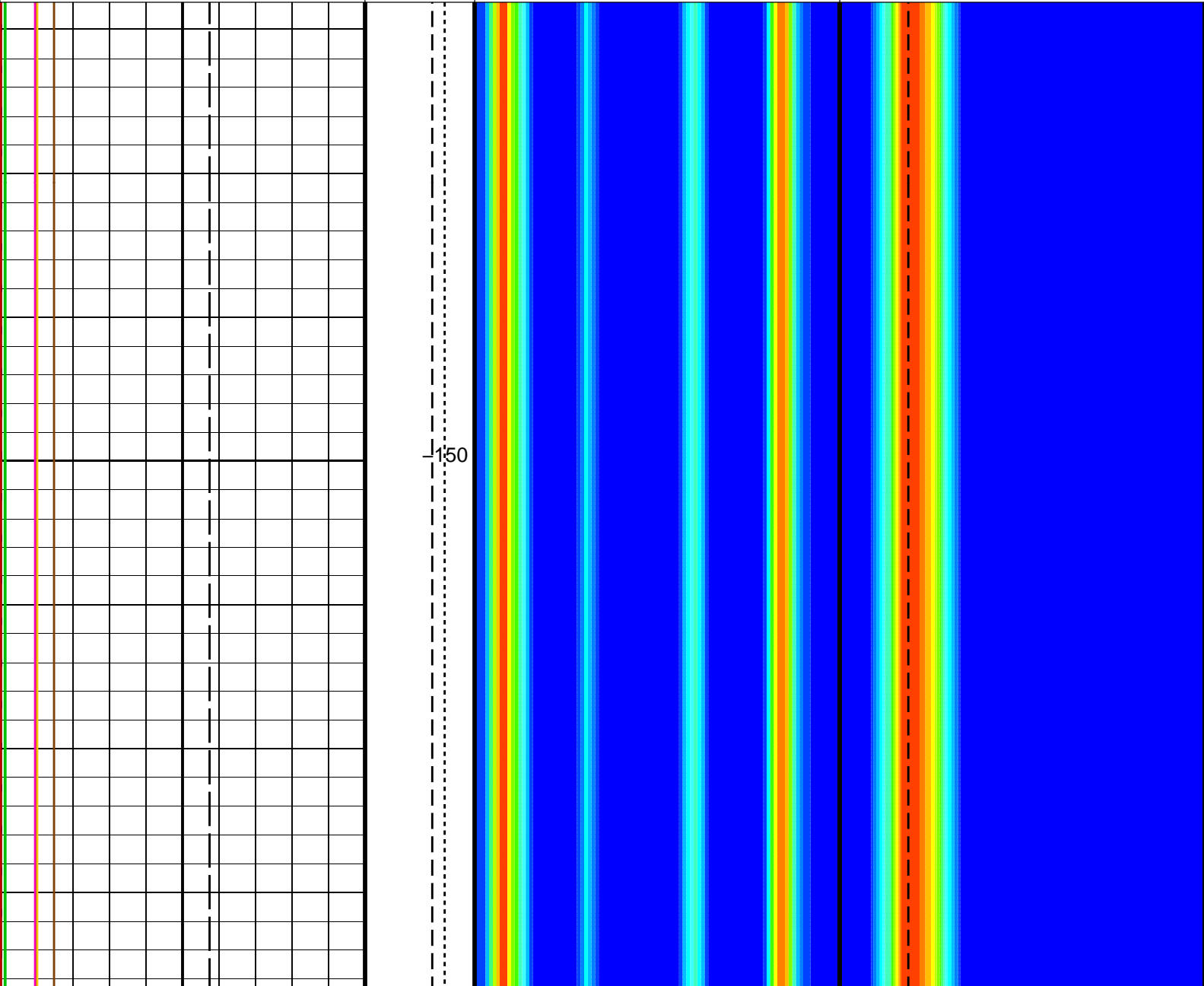
 Time Mark Every 60 S

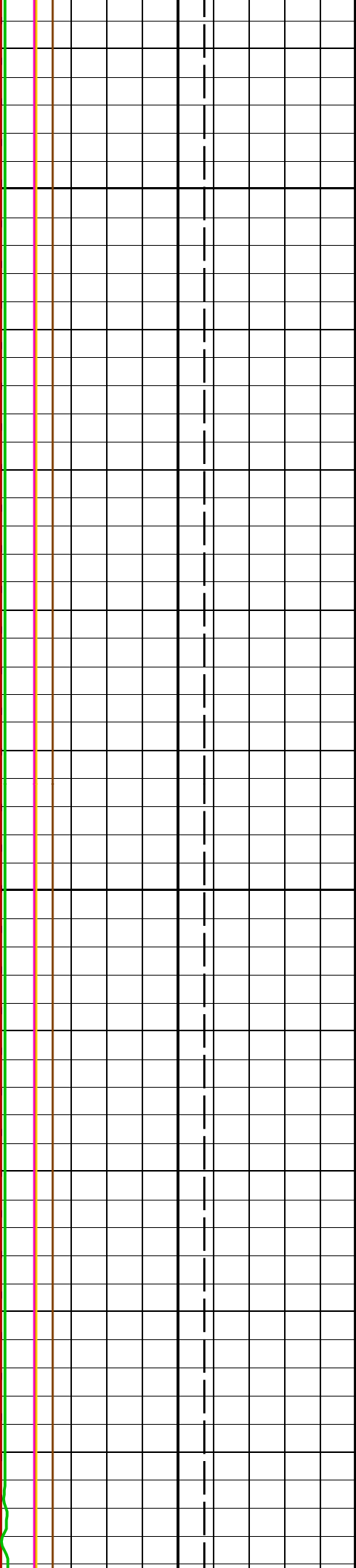
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(-----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(-----)	9
Peak Coherence / RA – P & S Comp (CHRP)		

0	(-----)	10
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(-----)	10
Gamma Ray (GR_EDTC) (GAPI)		
0		75
Poisson's Ratio (PR)		
0	(-----)	0.5
HLDS Caliper (LCAL) (IN)		
0		20

2nd Pass, Sea Floor Depth Reference

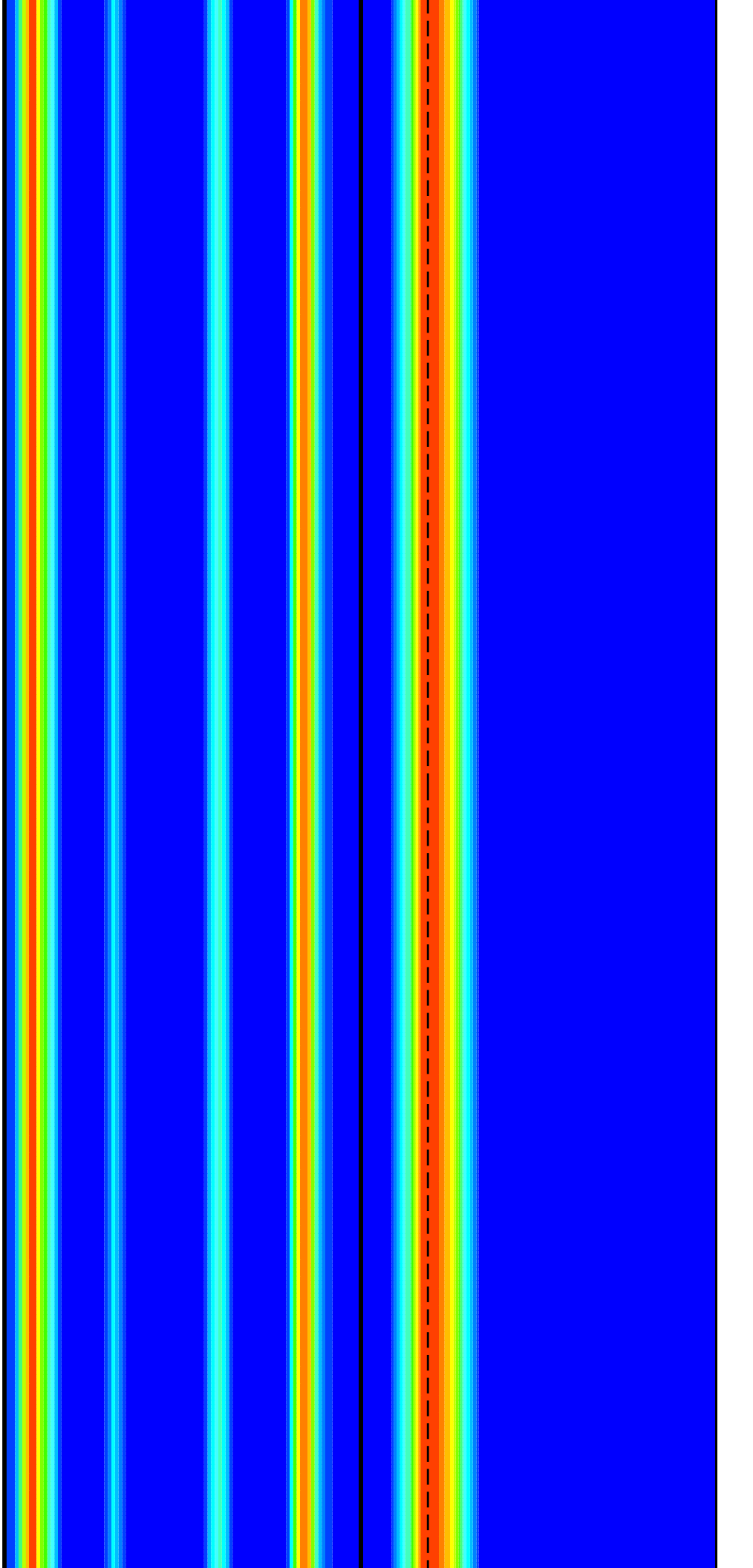
<div> <div>Poisson's Ratio (PR)</div> <div>(-----)</div> <div>00.5</div> </div>	<div> <div>Calibrated Downhole Force (CDF) (LBF)</div> <div>50000</div> </div>	<div> <div>MinAmplitudeMax</div> <div>Rec.Array P&S Slow Proj. CVDL (SPR4)</div> <div>40240</div> </div>	<div> <div>MinAmplitudeMax</div> <div>Rec.Array U.Dipole Slow Proj. CVDL (SPR2)</div> <div>751200</div> </div>
		<div> <div>Delta-T Shear / RA – P & S (DTRS)</div> <div>(US/F)</div> <div>40240</div> </div>	
<div> <div>Bit Size (BS)</div> <div>(IN)</div> <div>020</div> </div>	<div> <div>Tension (TENS) (LBF)</div> <div>100000</div> </div>	<div> <div>Delta-T Comp / RA – P & S (DTRP)</div> <div>(US/F)</div> <div>40240</div> </div>	<div> <div>Delta-T Shear / RA – Upper Dipole (DT2R)</div> <div>(US/F)</div> <div>751200</div> </div>

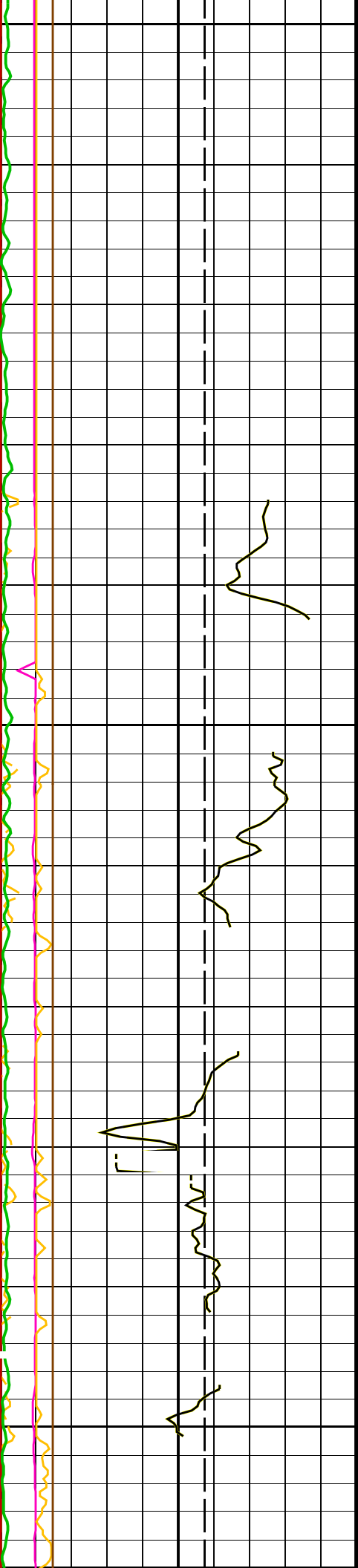




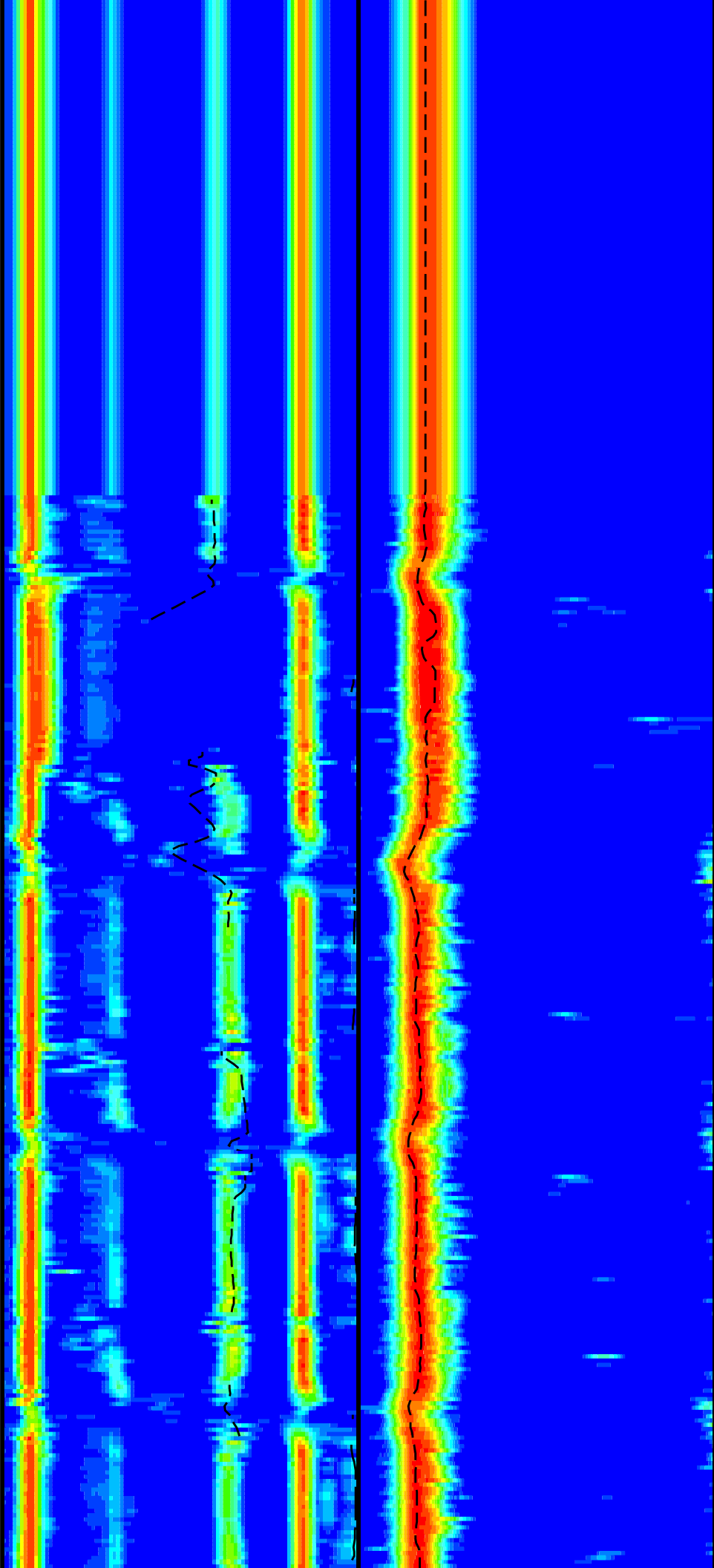
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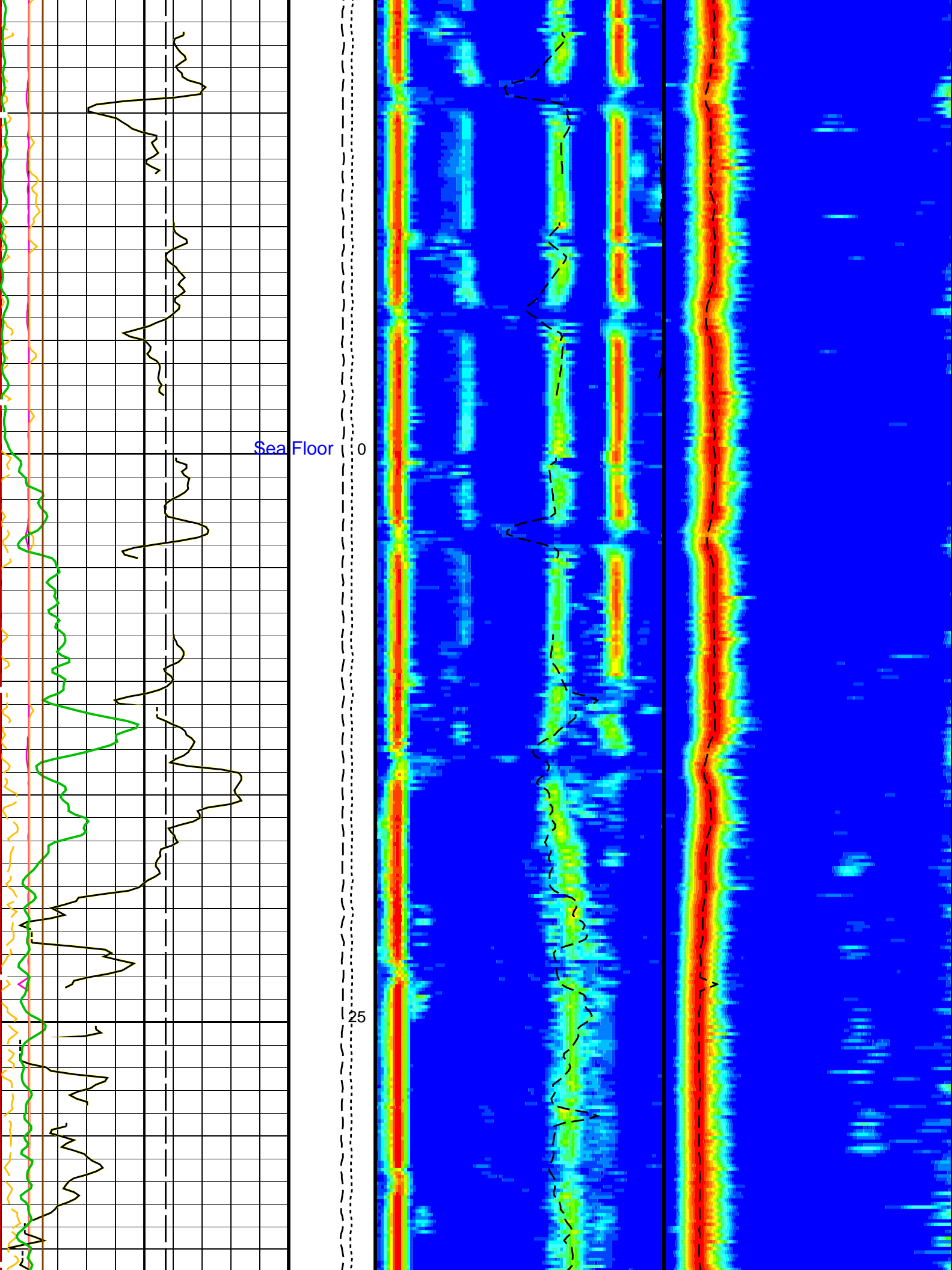
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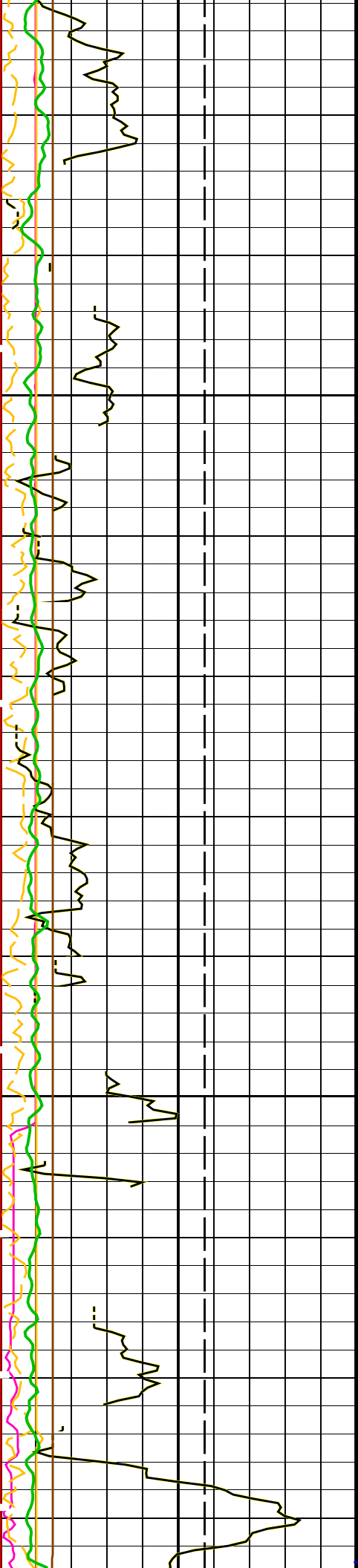




75
50
25

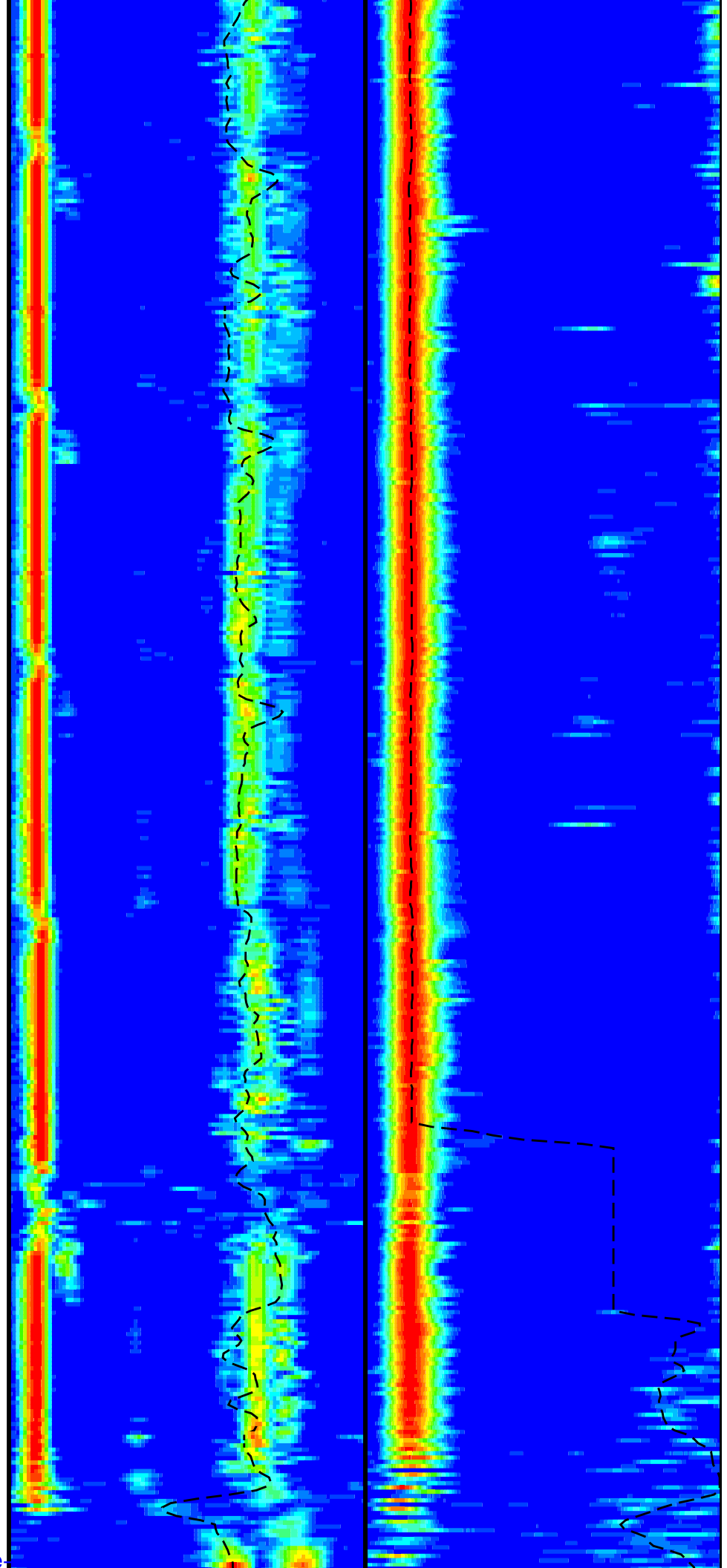


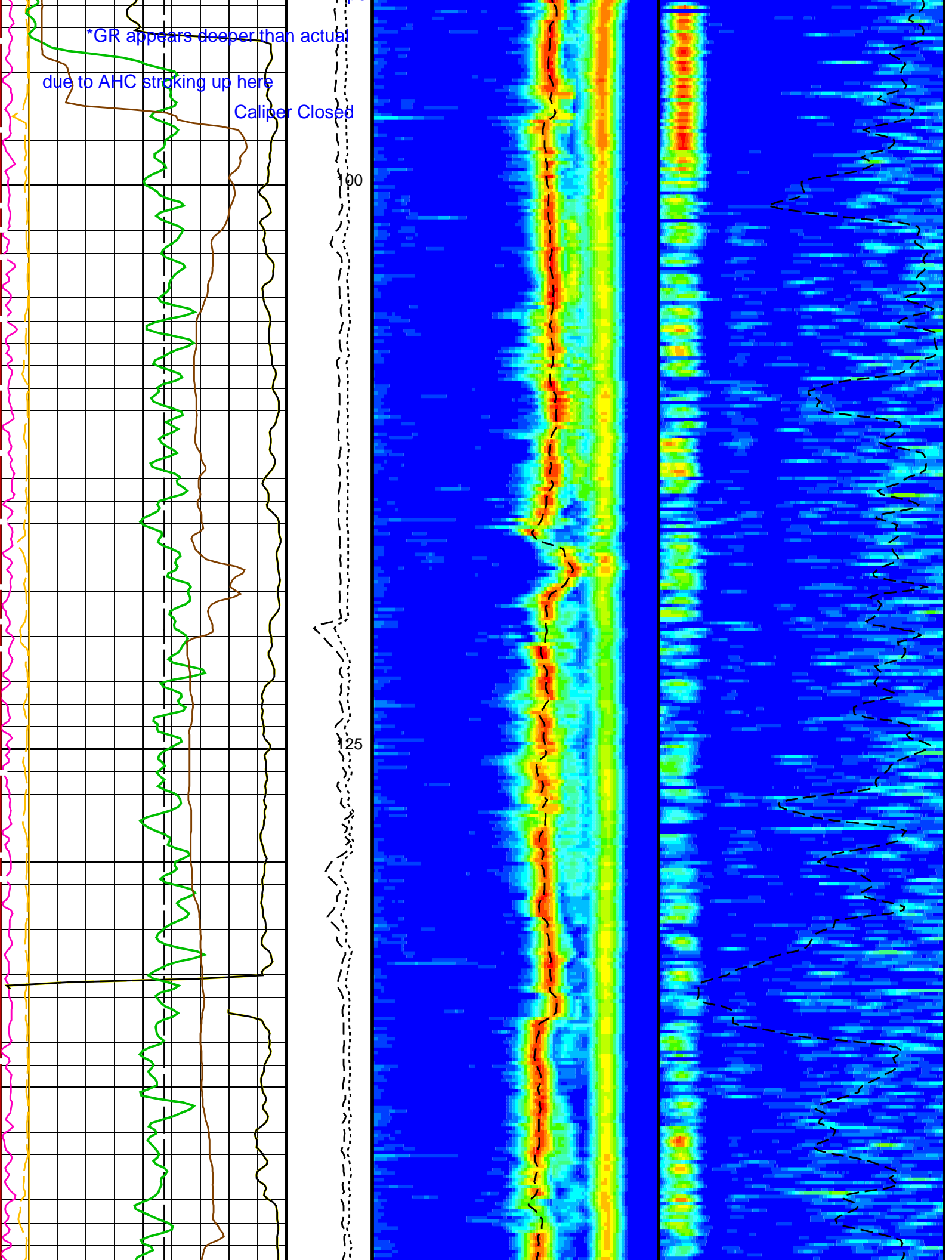


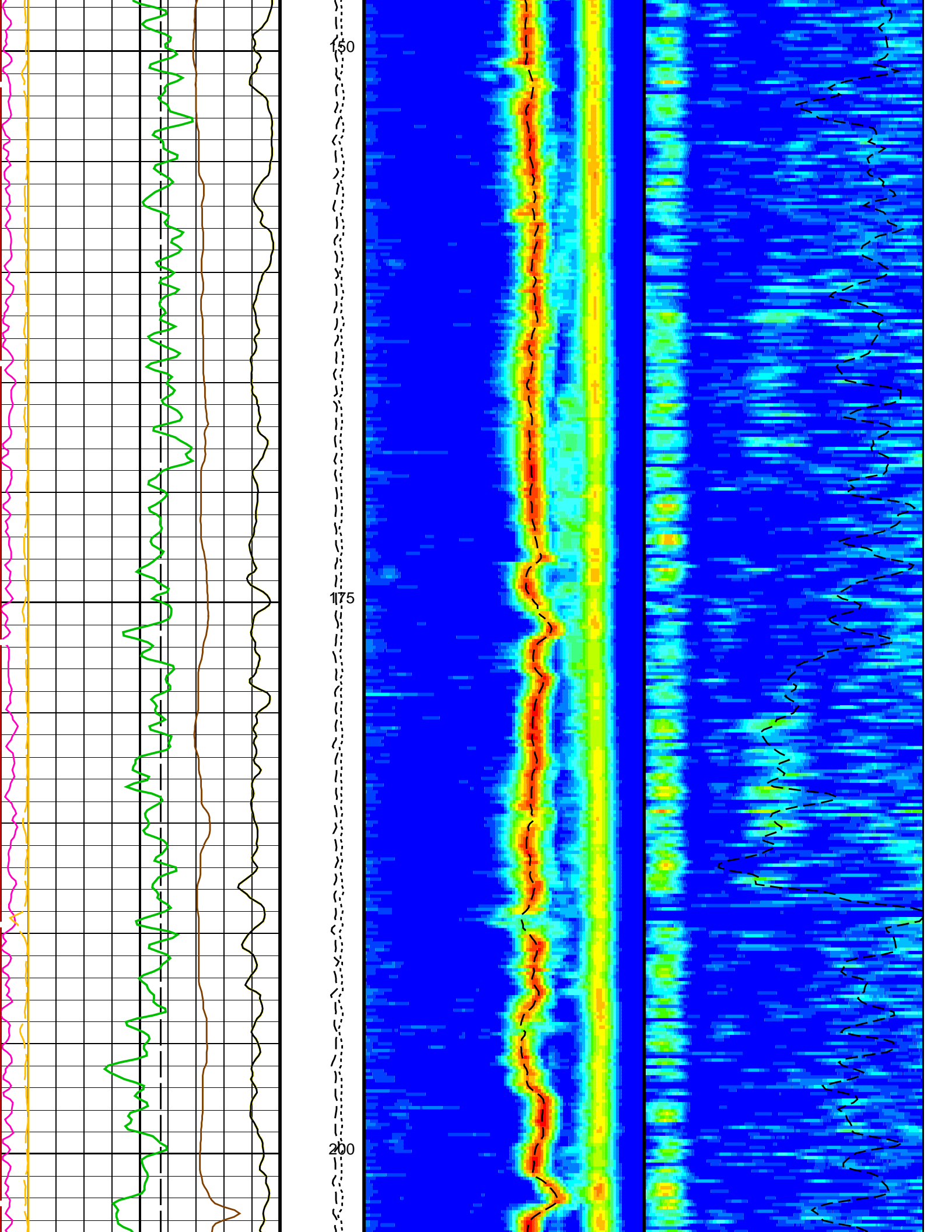


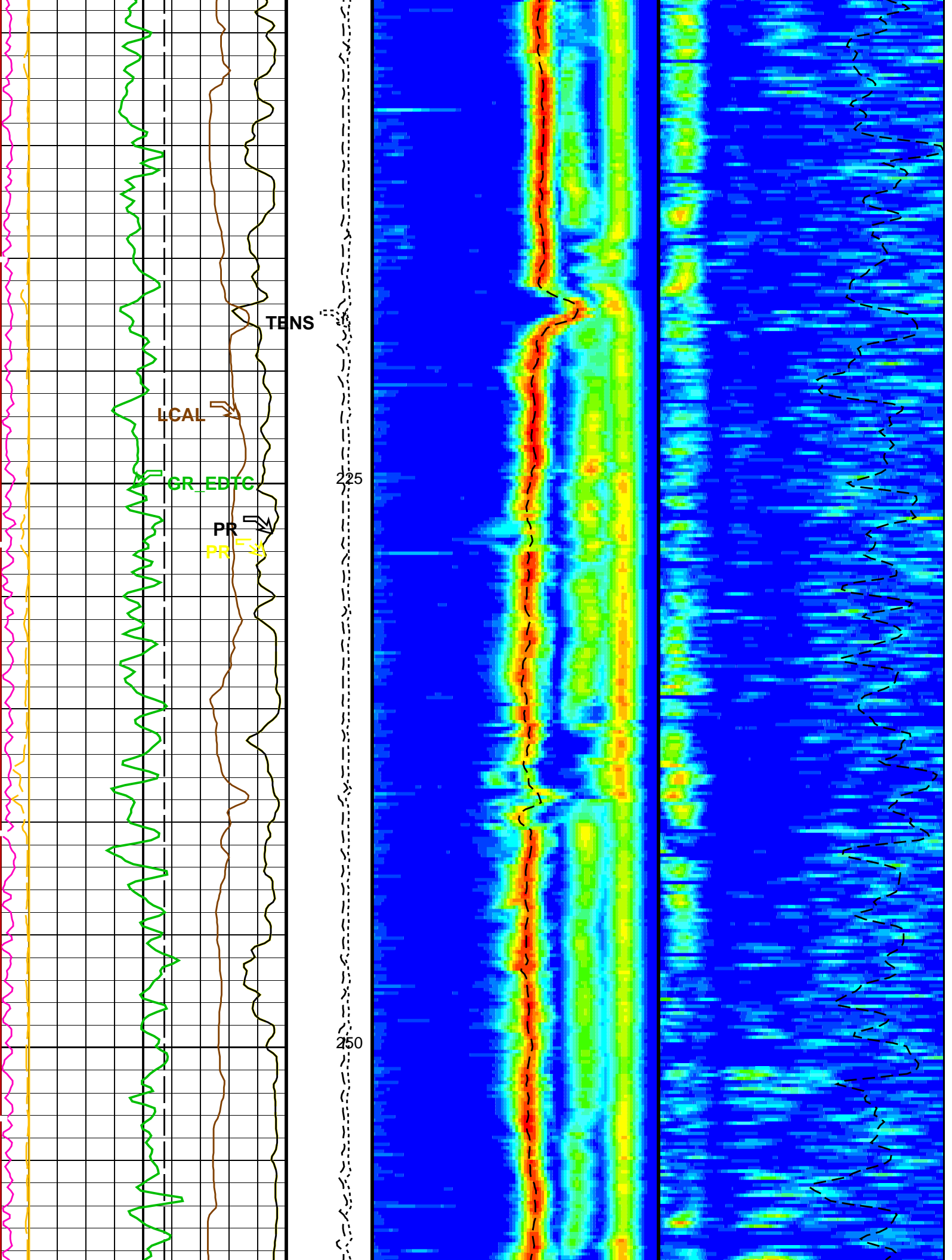
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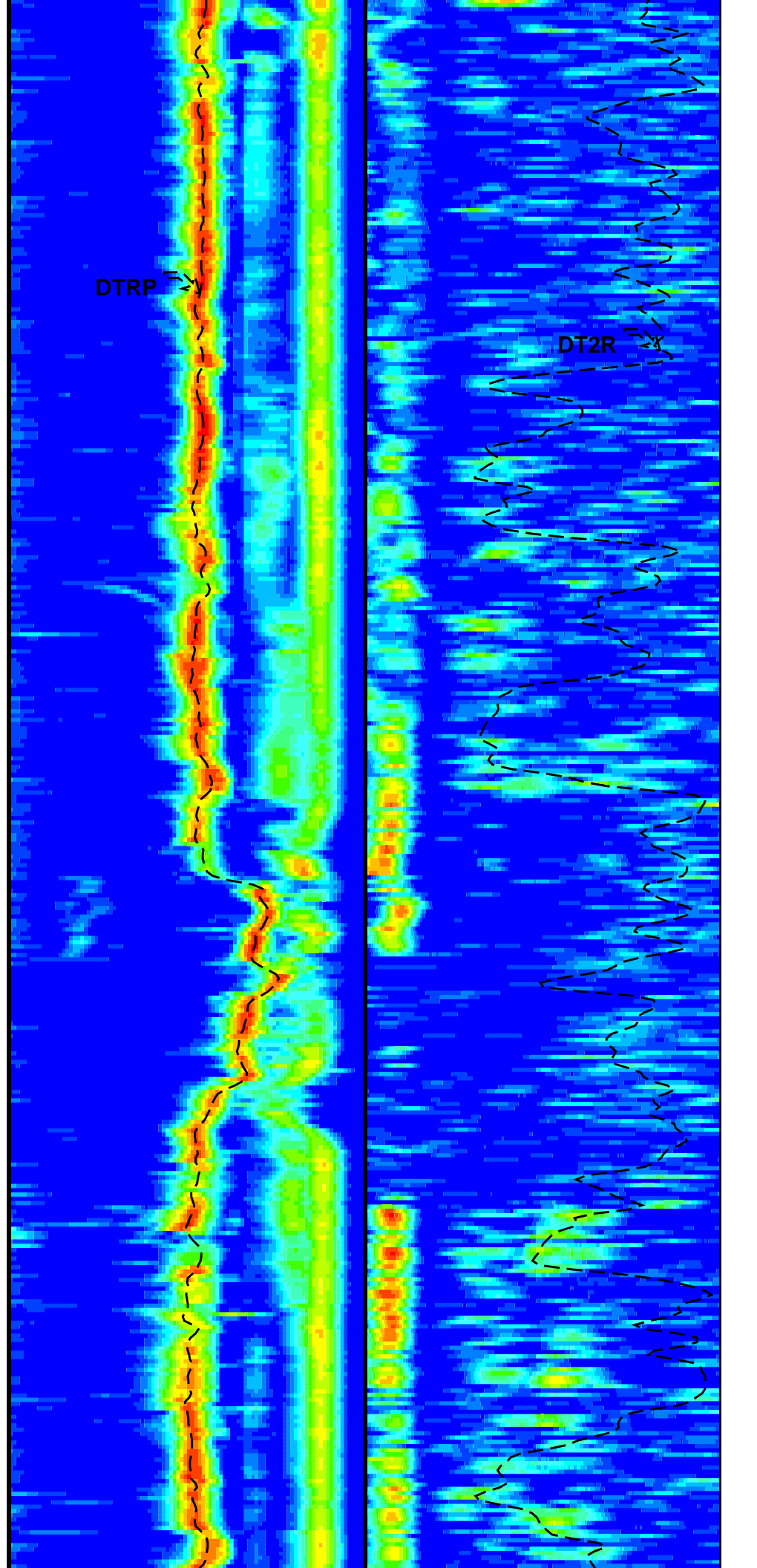
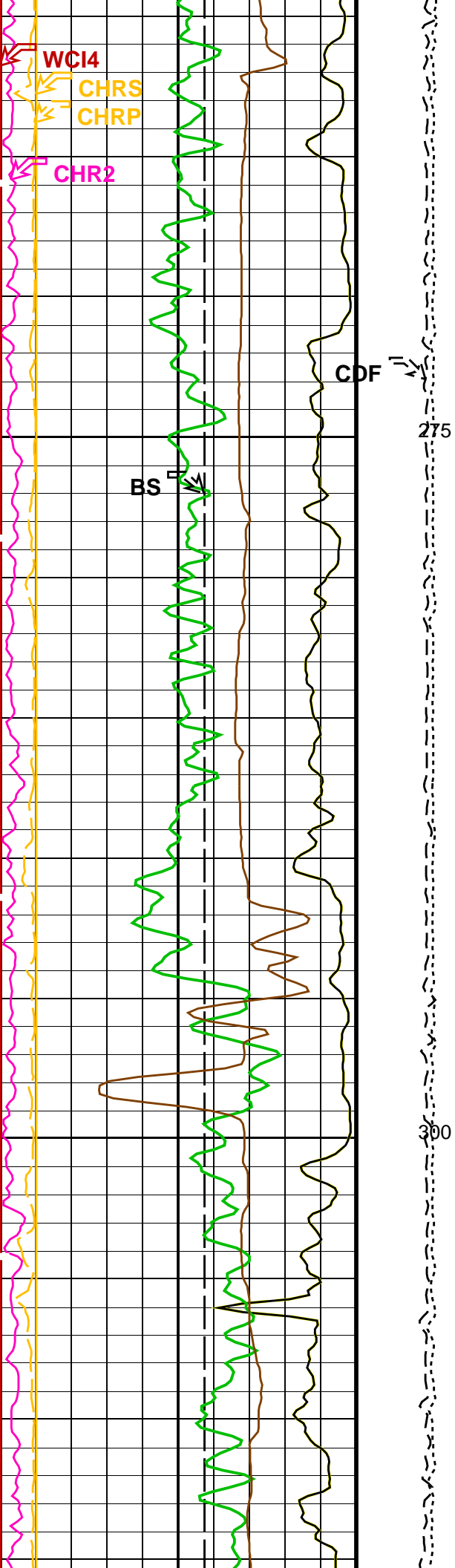
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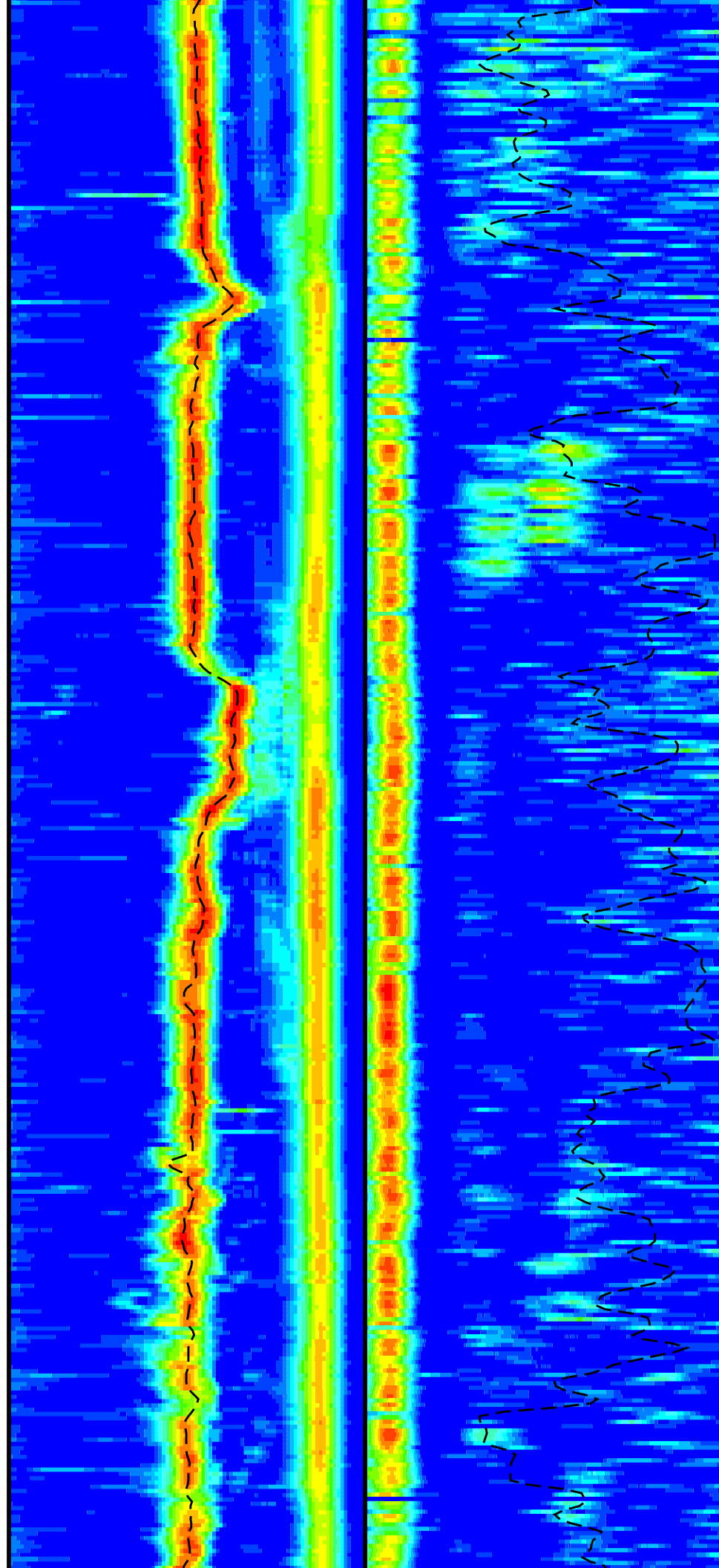
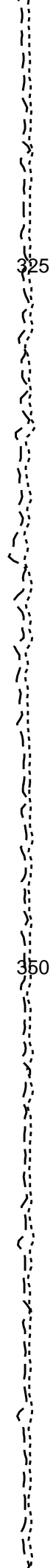


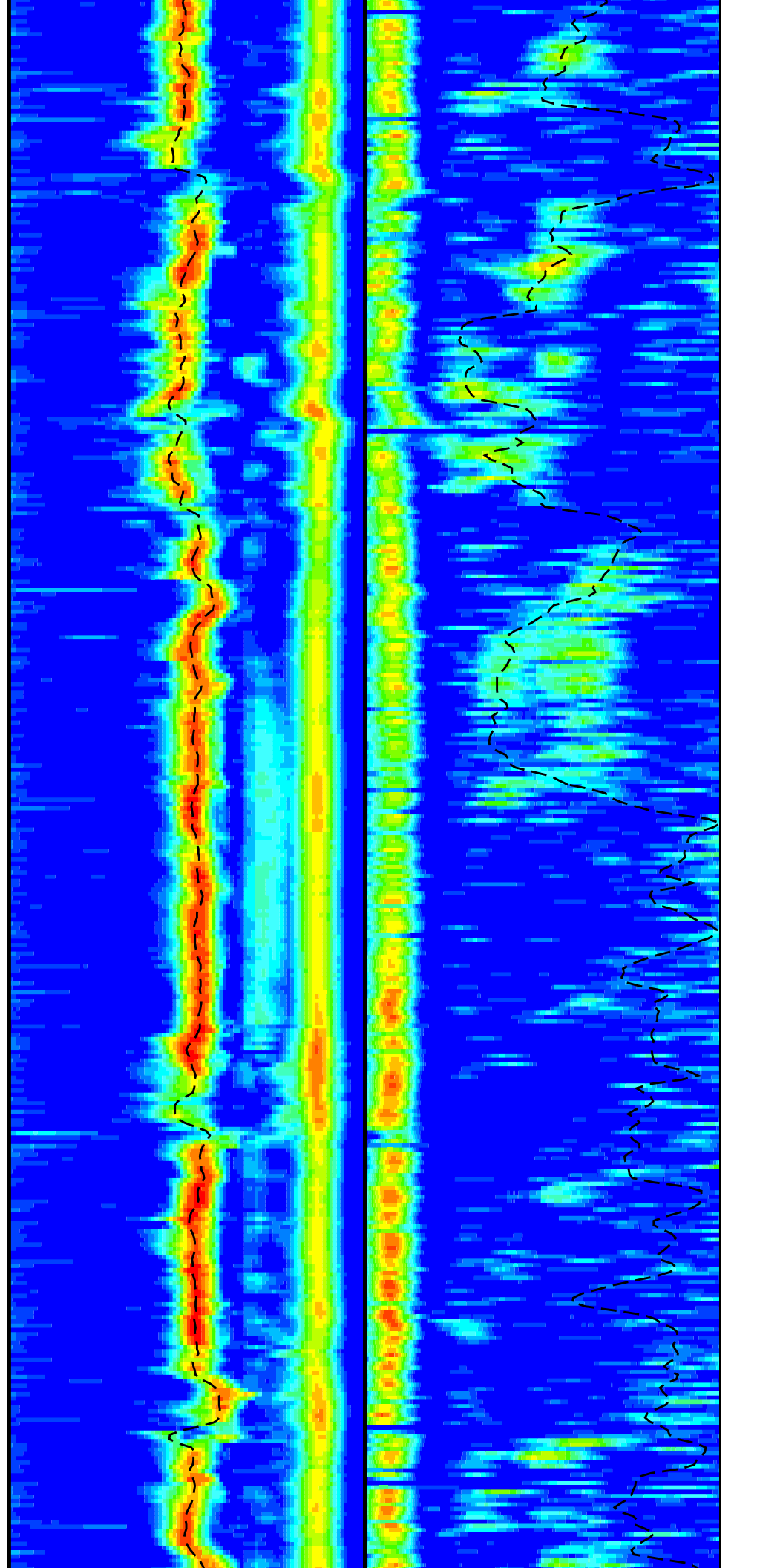
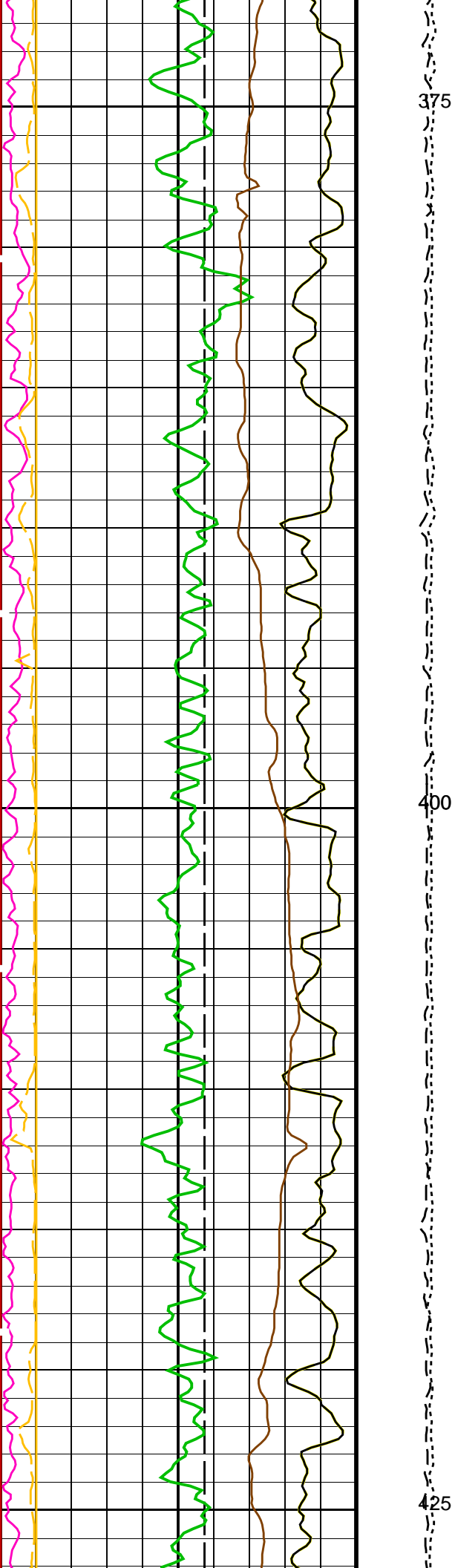


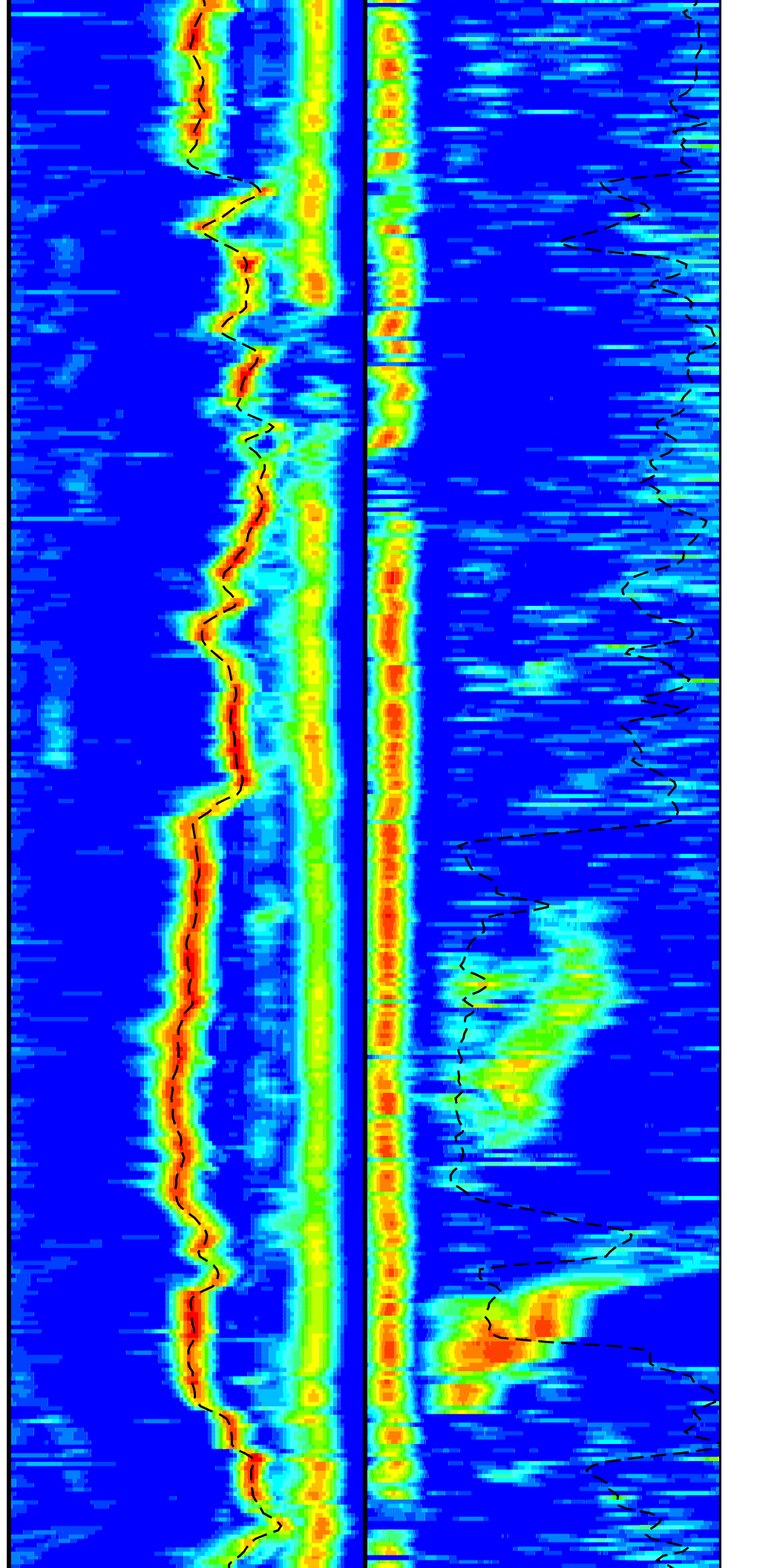
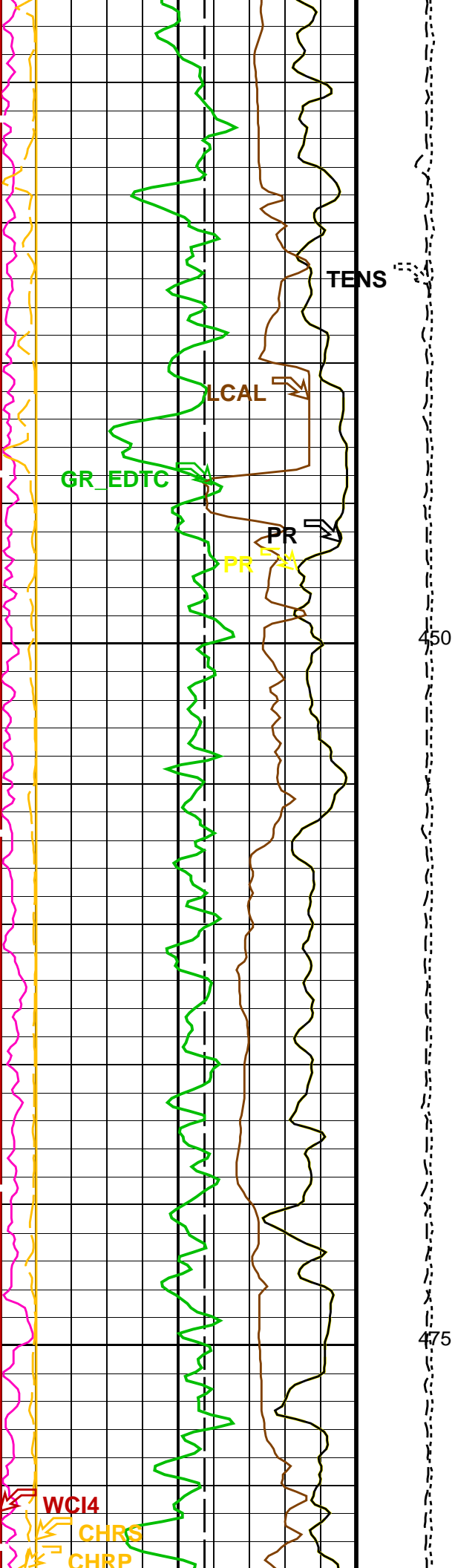


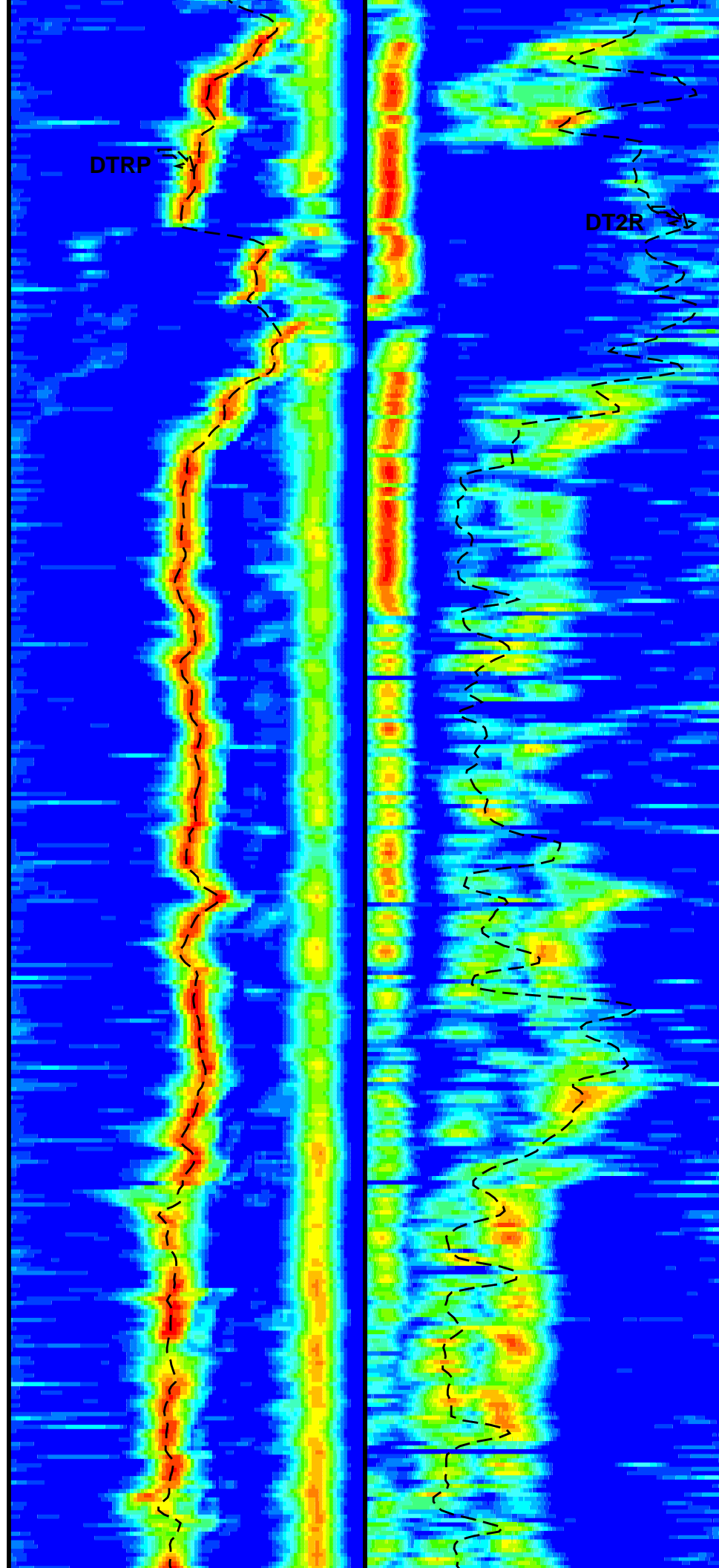
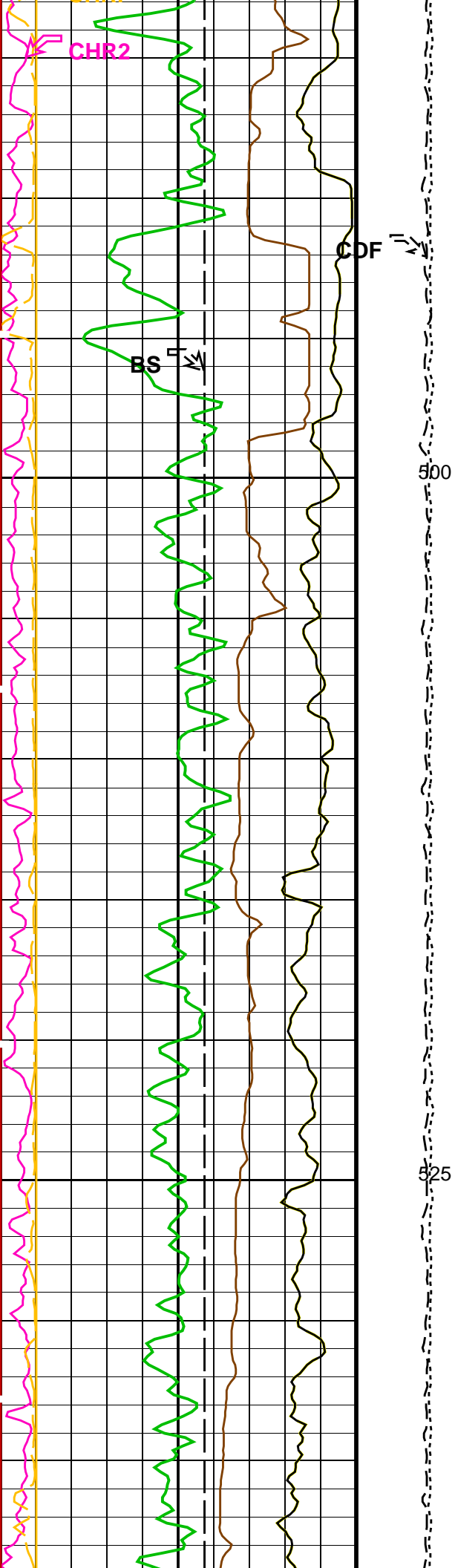


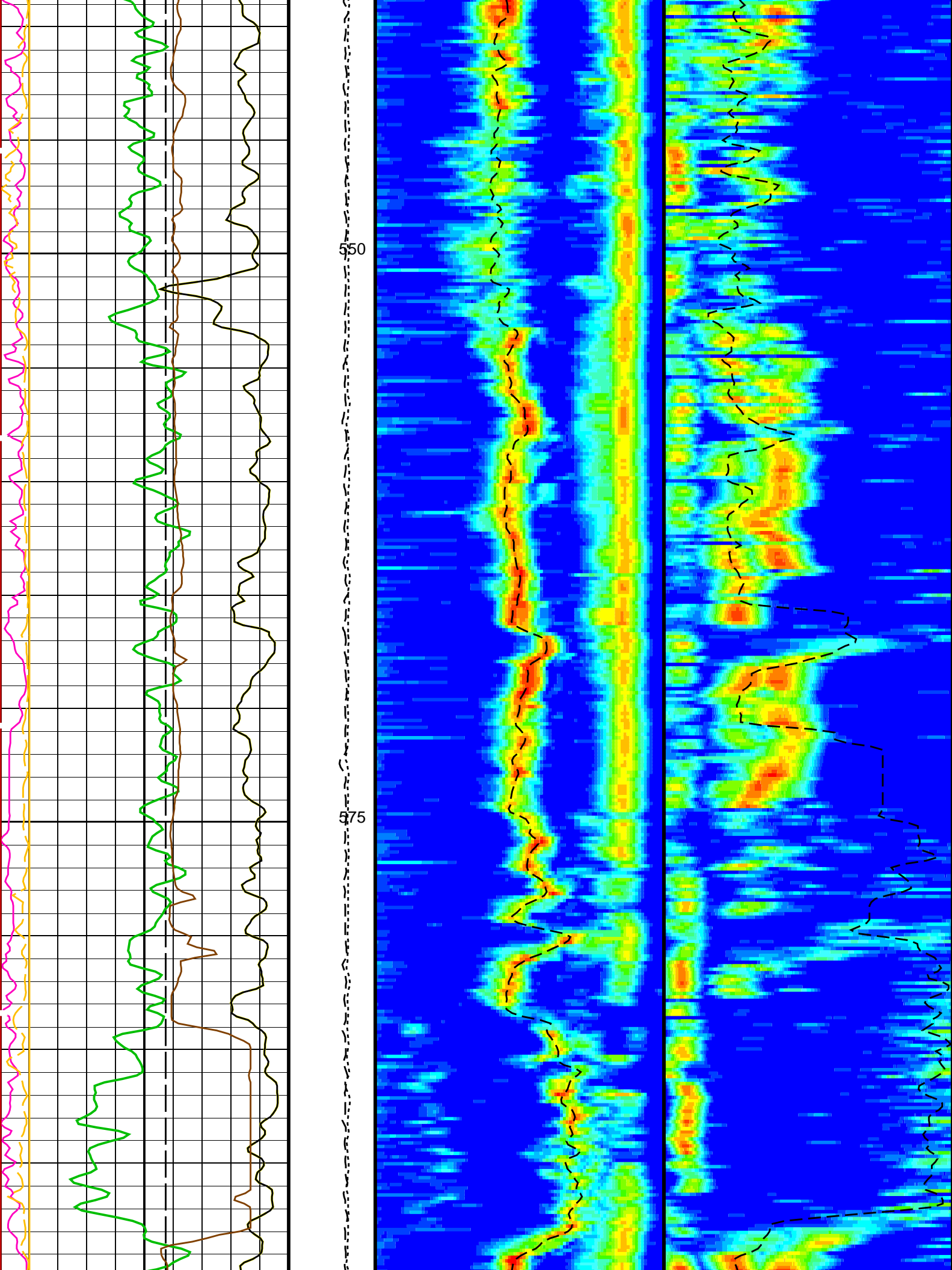


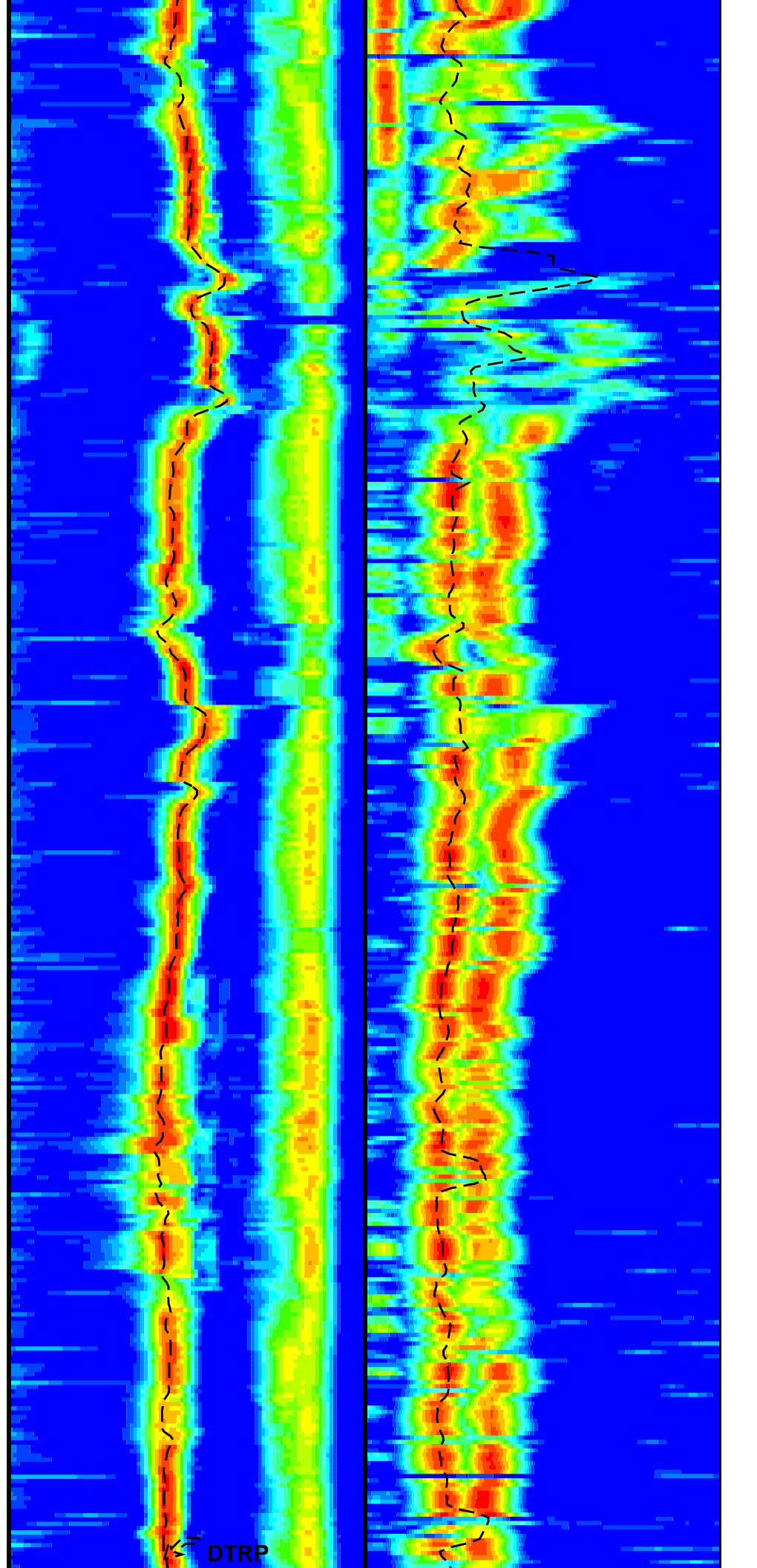
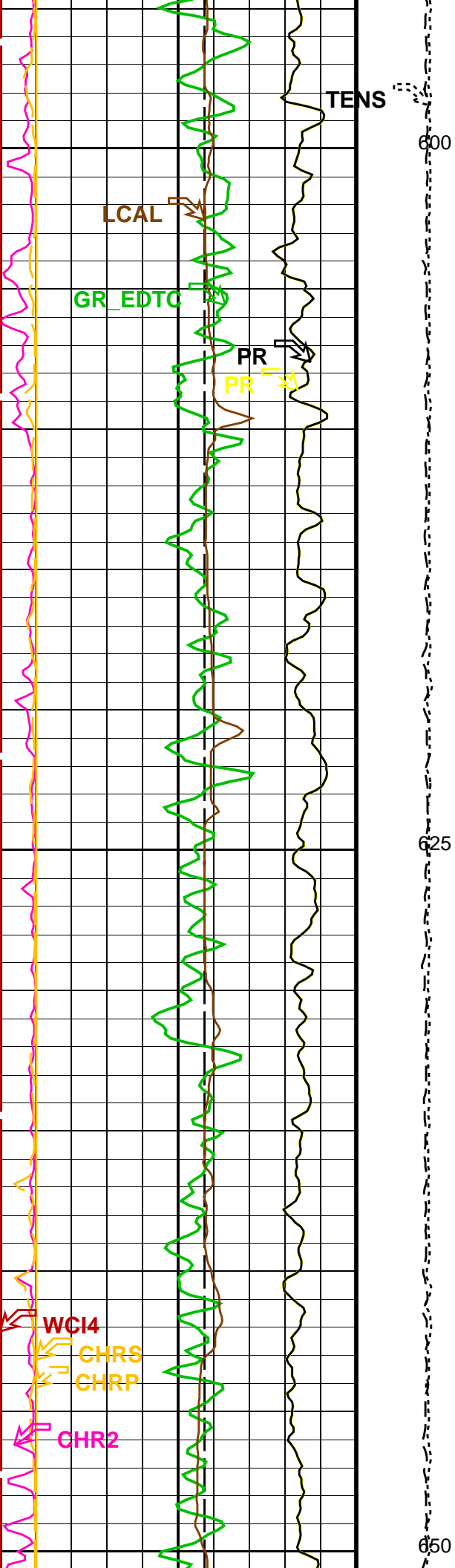


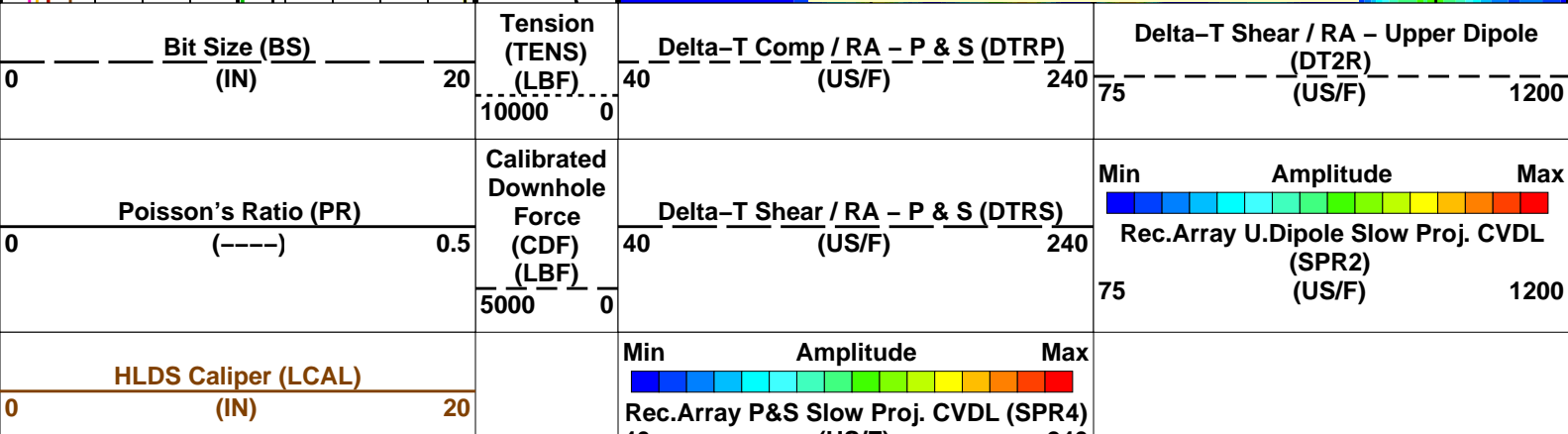
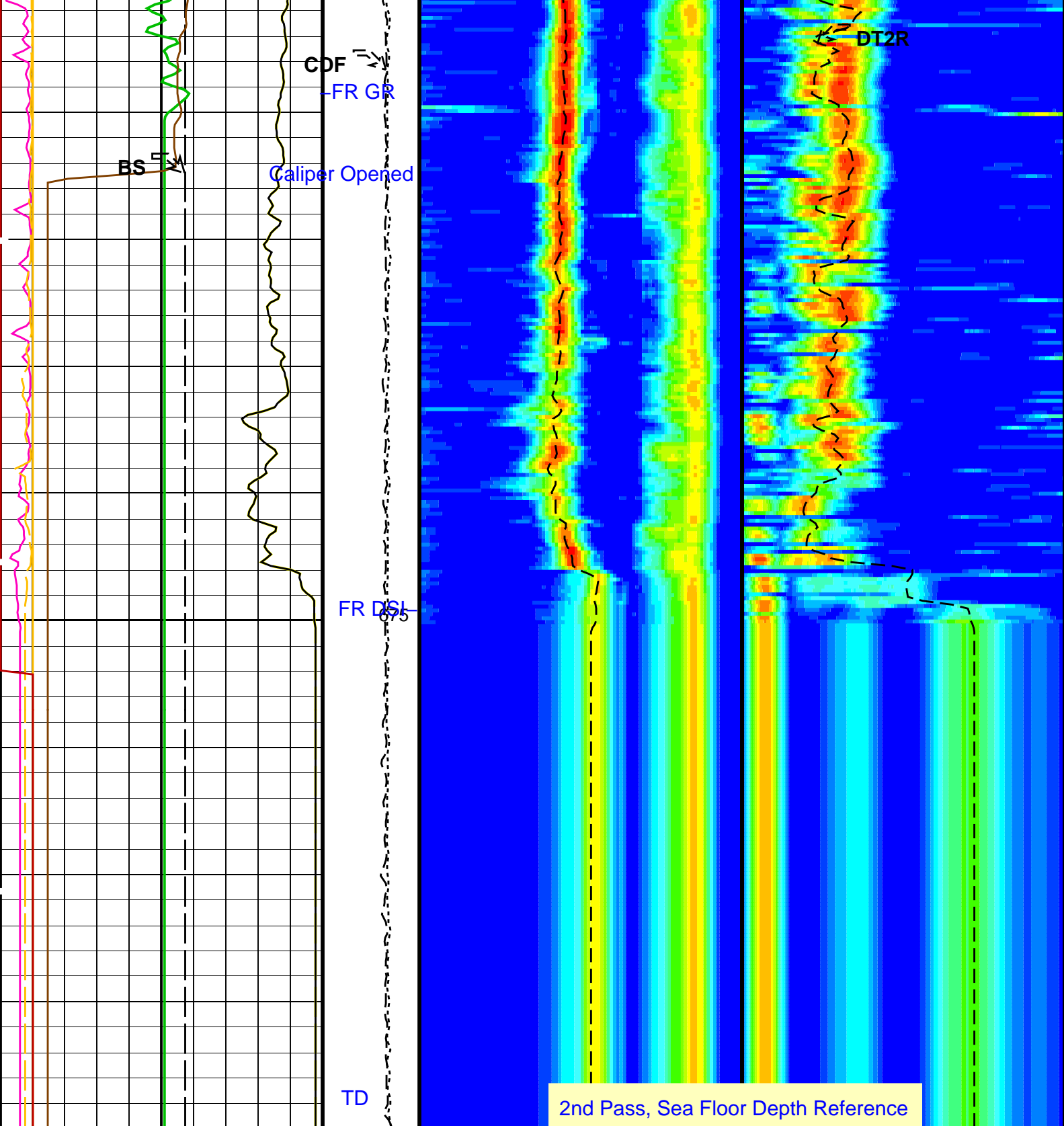












Poisson's Ratio (PR)		
0	(-----)	0.5
Gamma Ray (GR_EDTC)		
0	(GAPI)	75
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(-----)	10
Peak Coherence / RA – P & S Comp (CHRP)		
0	(-----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(-----)	9
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(-----)	10

40 (US/F) 240

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
BHS	DIT-E: Dual Induction – E Borehole Status	OPEN	
BHS	DSST-B: Dipole Shear Imager – B Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	118	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	195	US/F
DDE2	Digitizing Delay 2	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1200	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	195	US/F
DTSS	Shear Delta-T Source for DTSM Channel	LOWER_DIPOLE	
DWC2	Digitizer Word Count 2	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP	
LFC	Label Formation Character – Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
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
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
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	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBRX	STC Search Bandwidth – Upper Dipole	222	US

SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B1–2K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
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	1200	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1200	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST2	STC Time Step – Upper Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL2	STC Time Upper Limit – Upper Dipole	20200	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
BHS	EDTC–B 8317: Enhanced DTS Cartridge Borehole Status	OPEN	
BS	System and Miscellaneous Bit Size	11.438	IN
DO	Depth Offset for Playback	–729.7	M
PP	Playback Processing	OFF	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 27–Jul–2013 15:11

OP System Version: 19C0–187

DIT–E	19C0–187	DTA–8259	19C0–187
DSST–B	19C0–187	HLDS	19C0–187
LDSC–B	19C0–187	EDTC–B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_018PUP	FN:29	PRODUCER	27–Jul–2013 15:01	1424.9 M	606.6 M
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Output DLIS Files

DEFAULT	PI_DSI_LDL_021PUP	FN:35	PRODUCER	27–Jul–2013 15:11		
BACKUP	PI_DSI_LDL_021PUP	FN:36	PRODUCER	27–Jul–2013 15:11		

Company: Lamont Doherty Earth Observatory Well: Expedition 341, Site U1421A

Input DLIS Files

DEFAULT	PI_DSI_LDL_018PUP	FN:29	PRODUCER	27–Jul–2013 15:01	1424.9 M	606.6 M
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Output DLIS Files

DEFAULT	PI_DSI_LDL_021PUP	FN:35	PRODUCER	27–Jul–2013 15:11	694.9 M	–166.0 M
BACKUP	PI_DSI_LDL_021PUP	FN:36	PRODUCER	27–Jul–2013 15:11	694.9 M	–166.0 M

OP System Version: 19C0–187

DIT–E	19C0–187	DTA–8259	19C0–187
DSST–B	19C0–187	HLDS	19C0–187

Time Mark Every 60 S

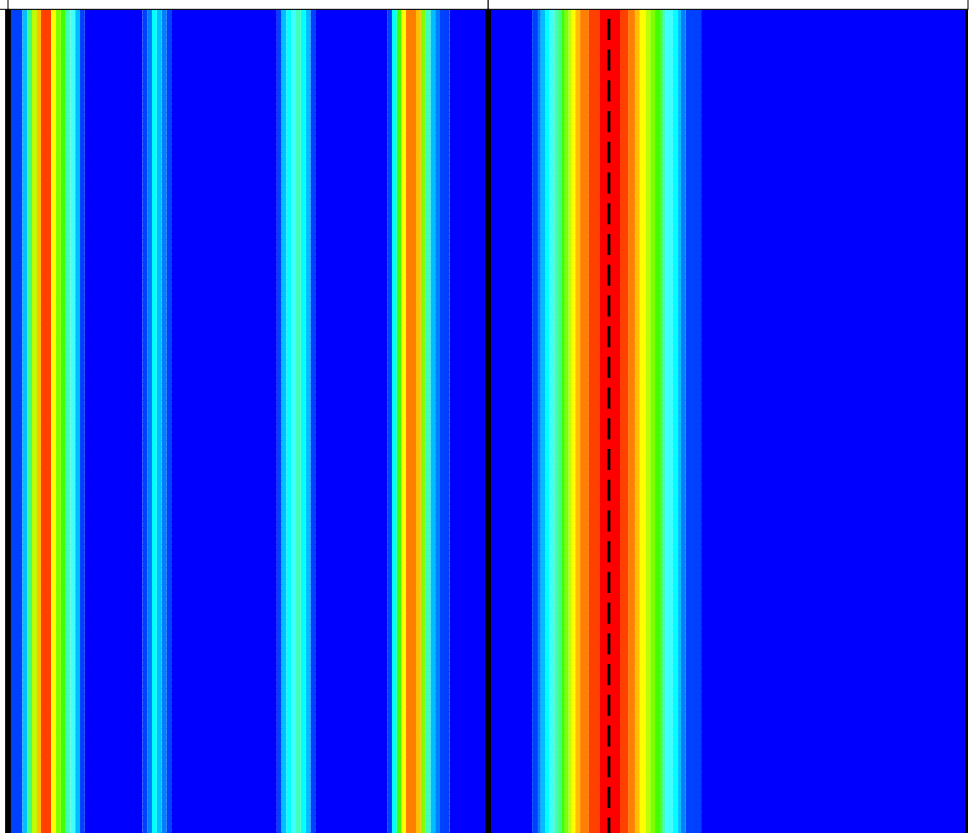
Delta-T Shear / RA – Lower Dipole

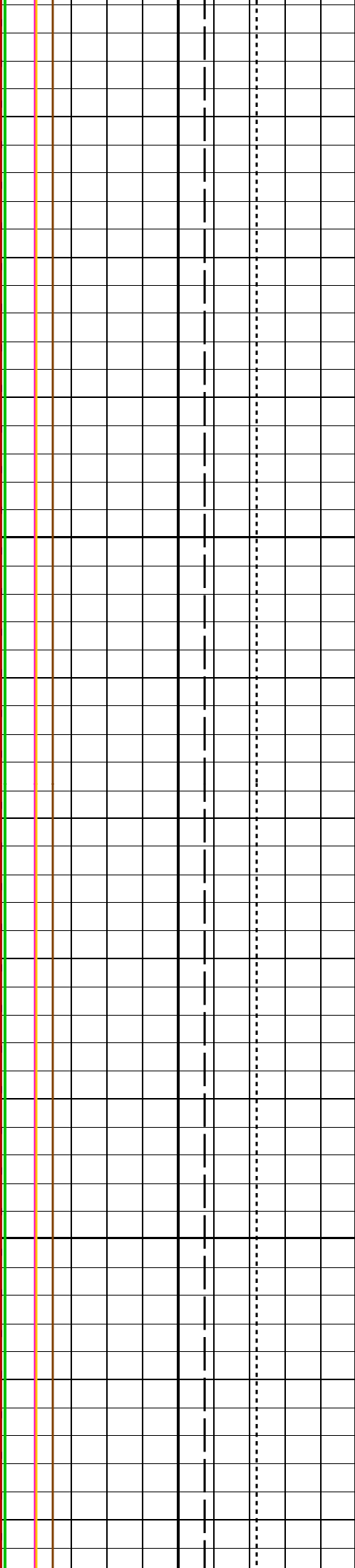
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(US/F)

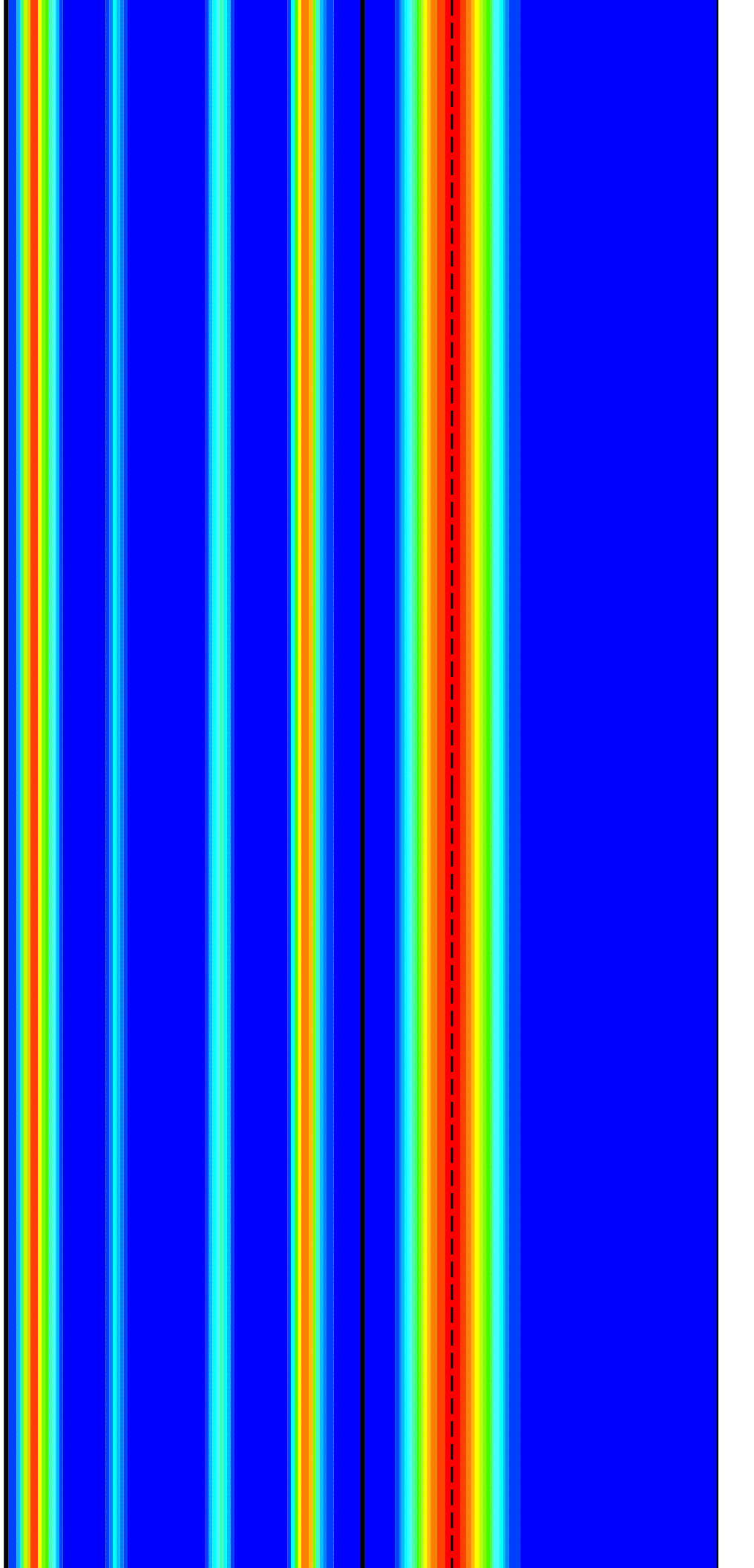
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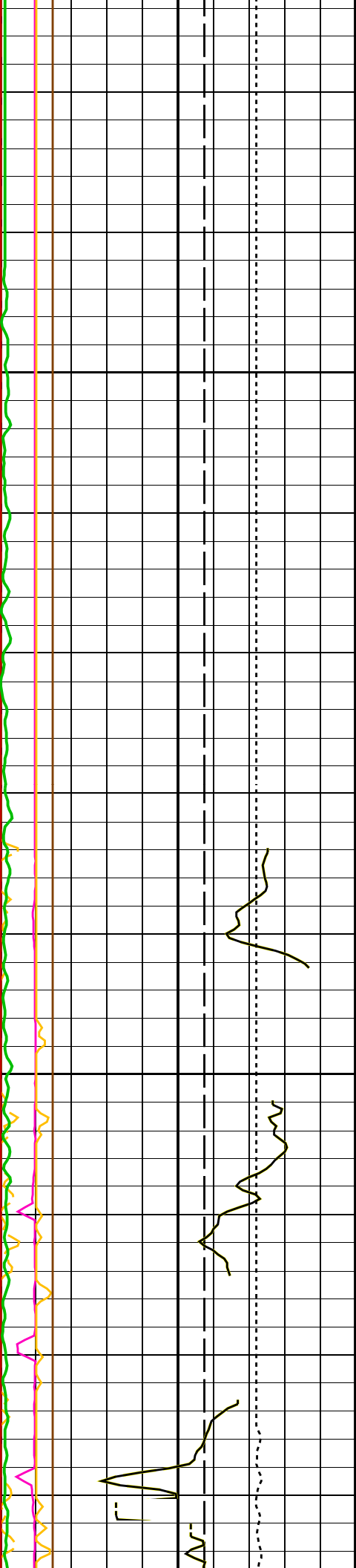




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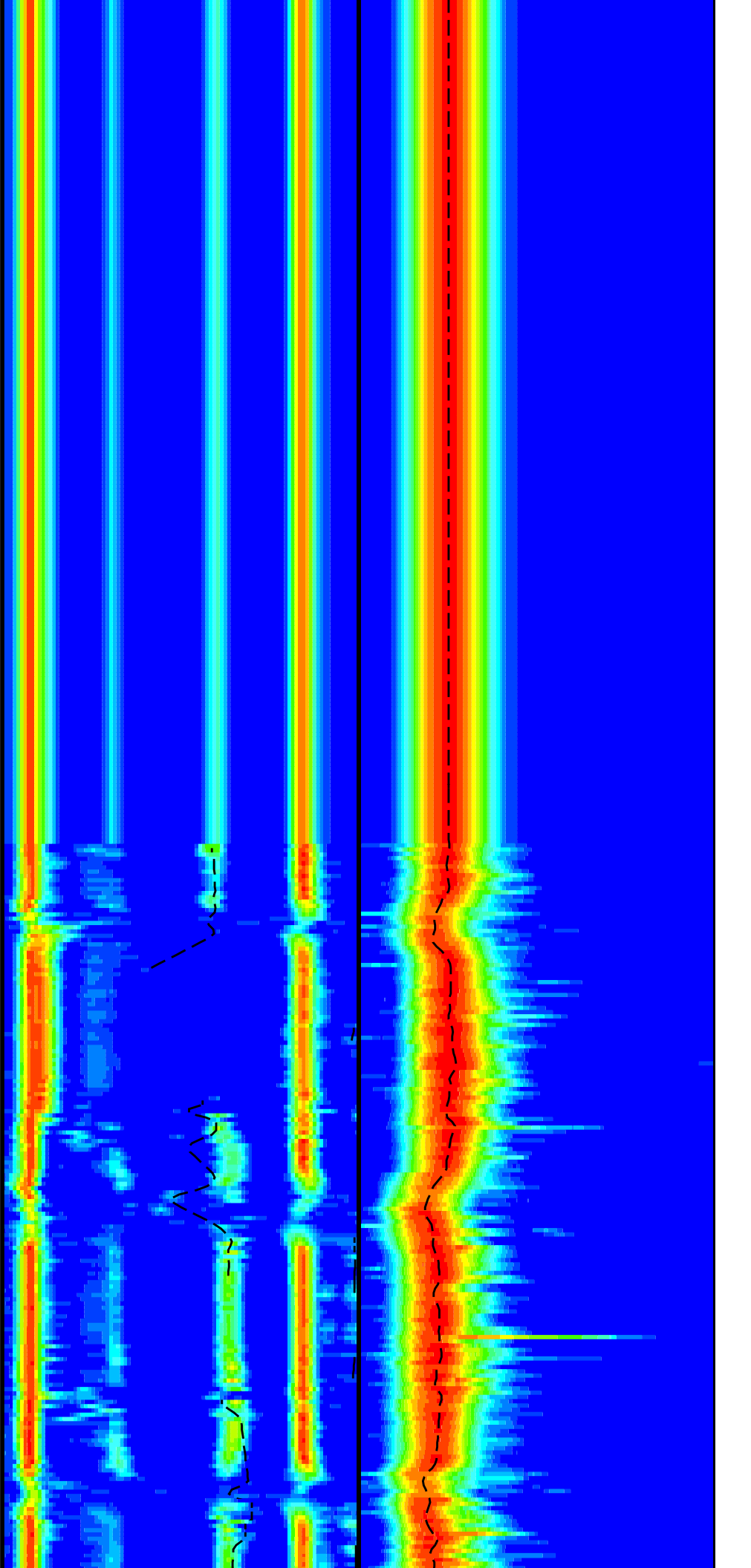
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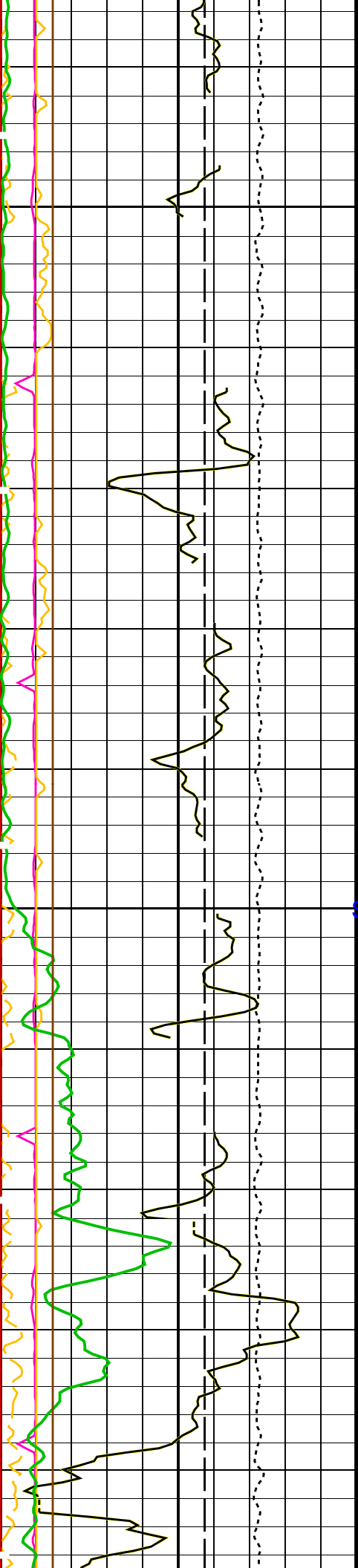




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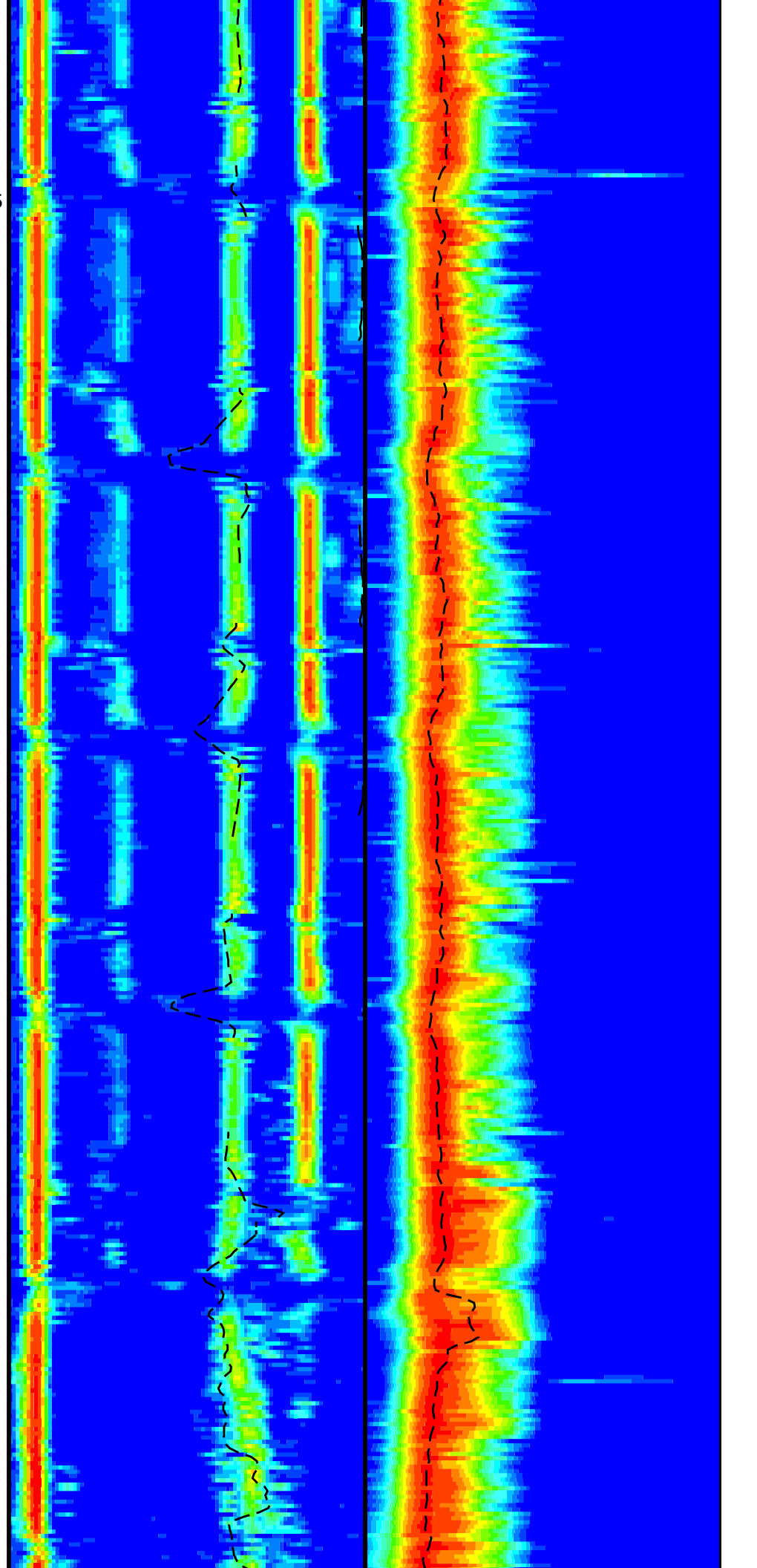
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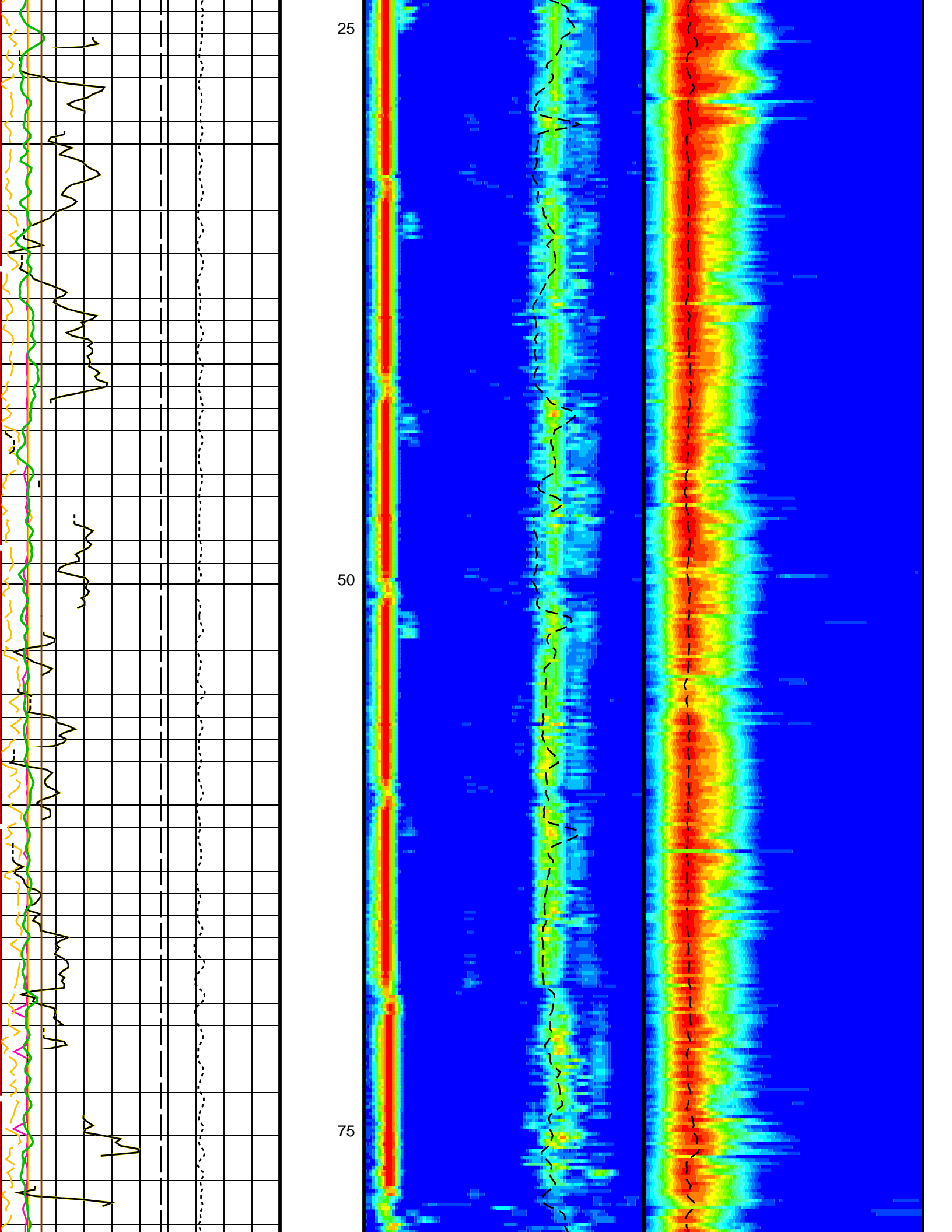


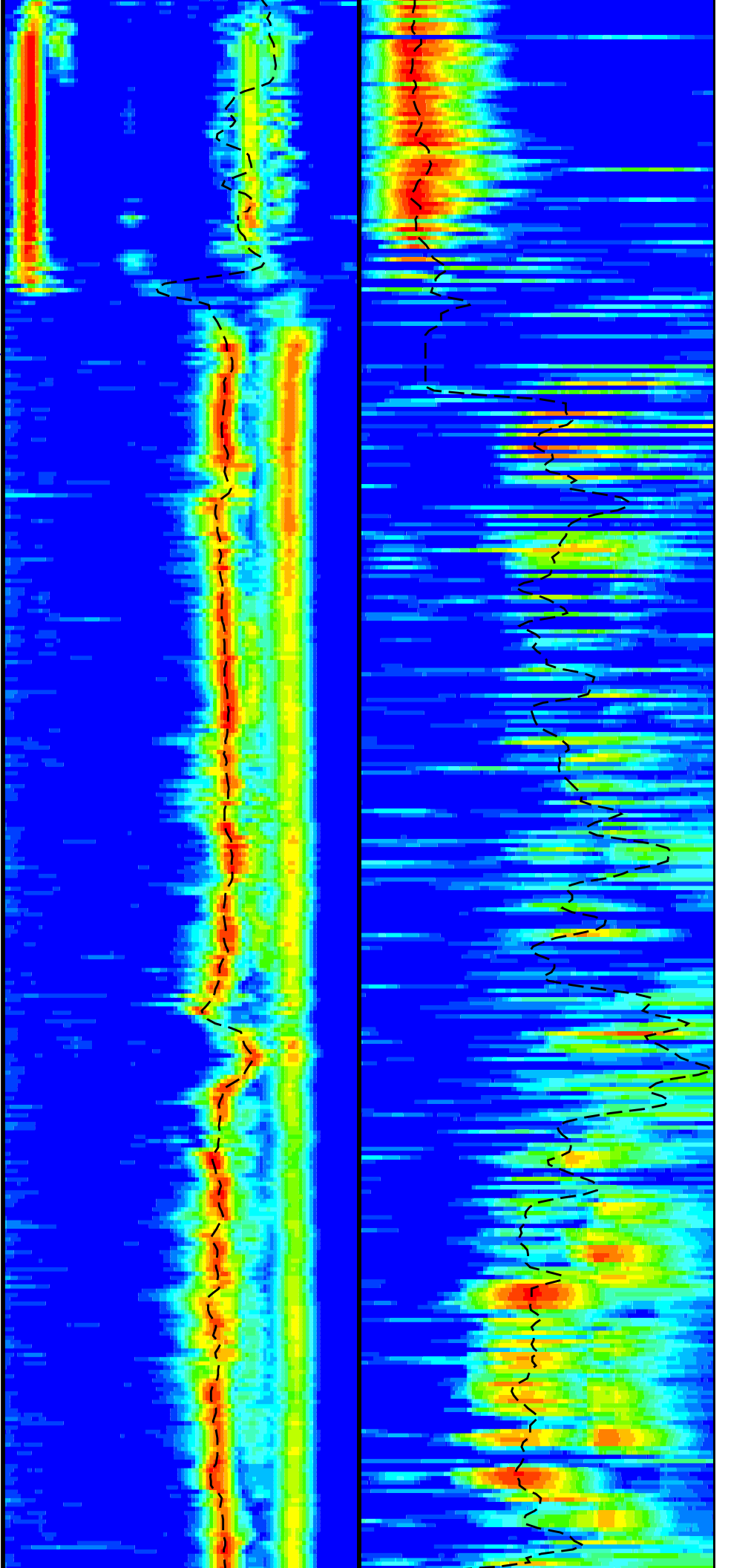
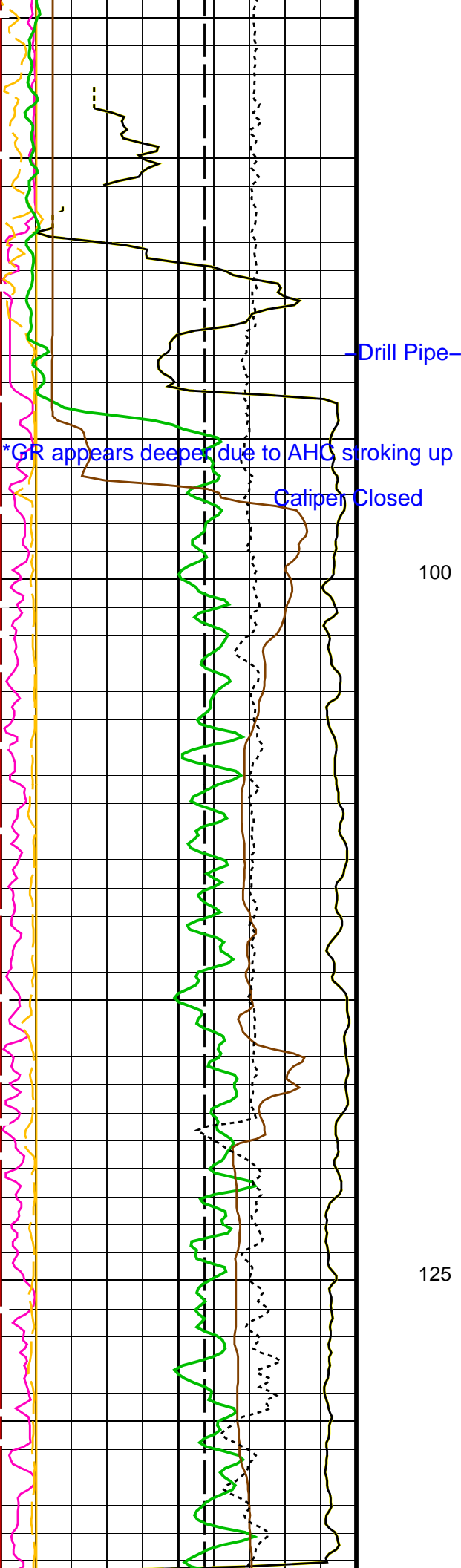


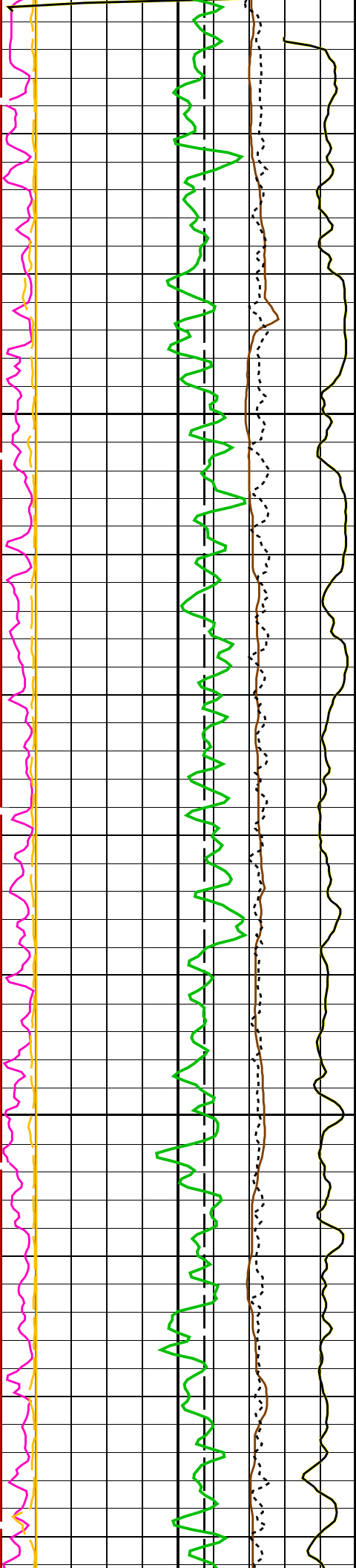
Sea Floor⁰

-25



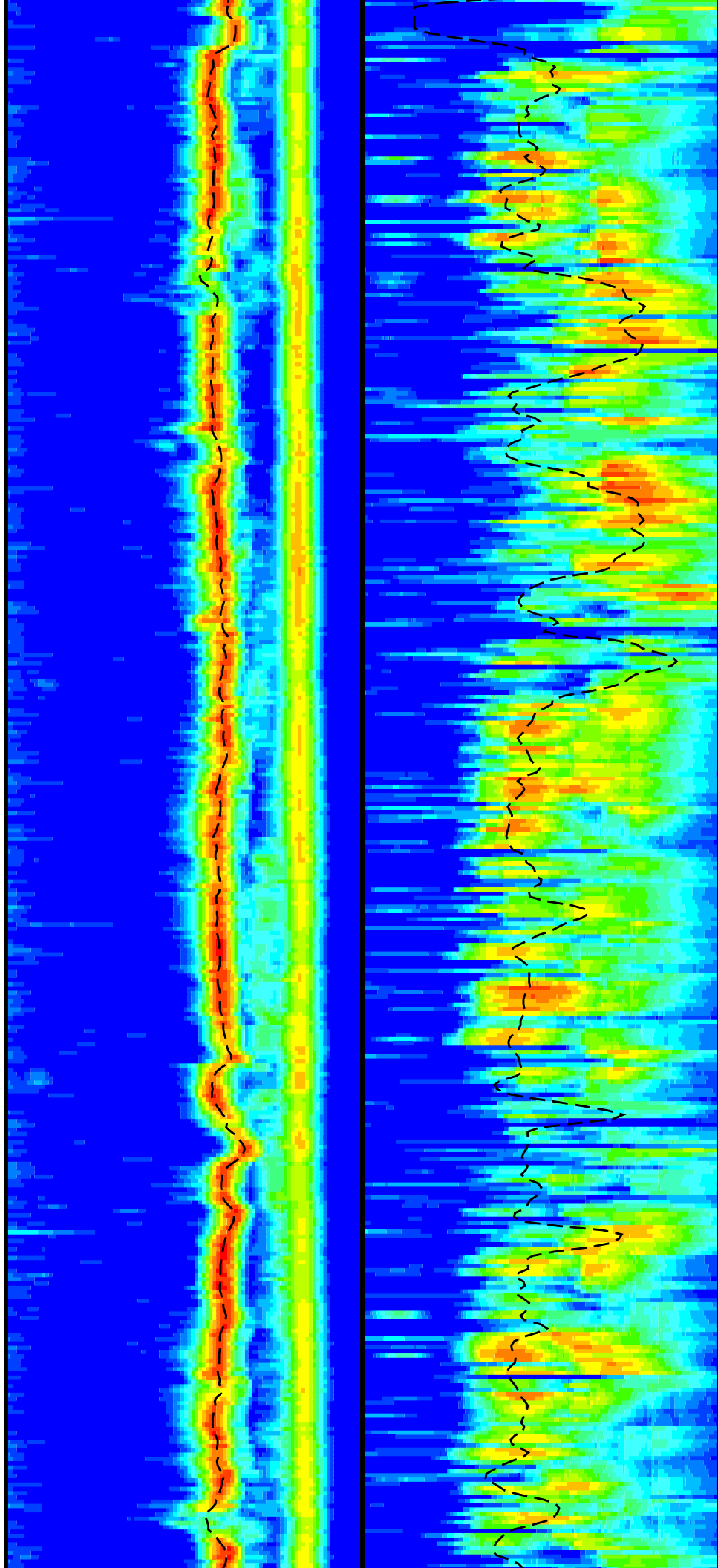


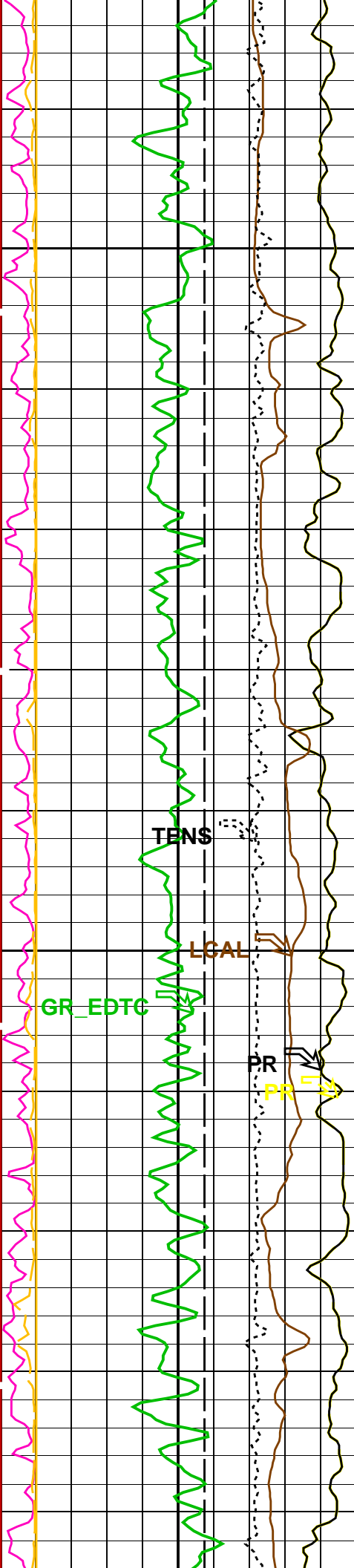




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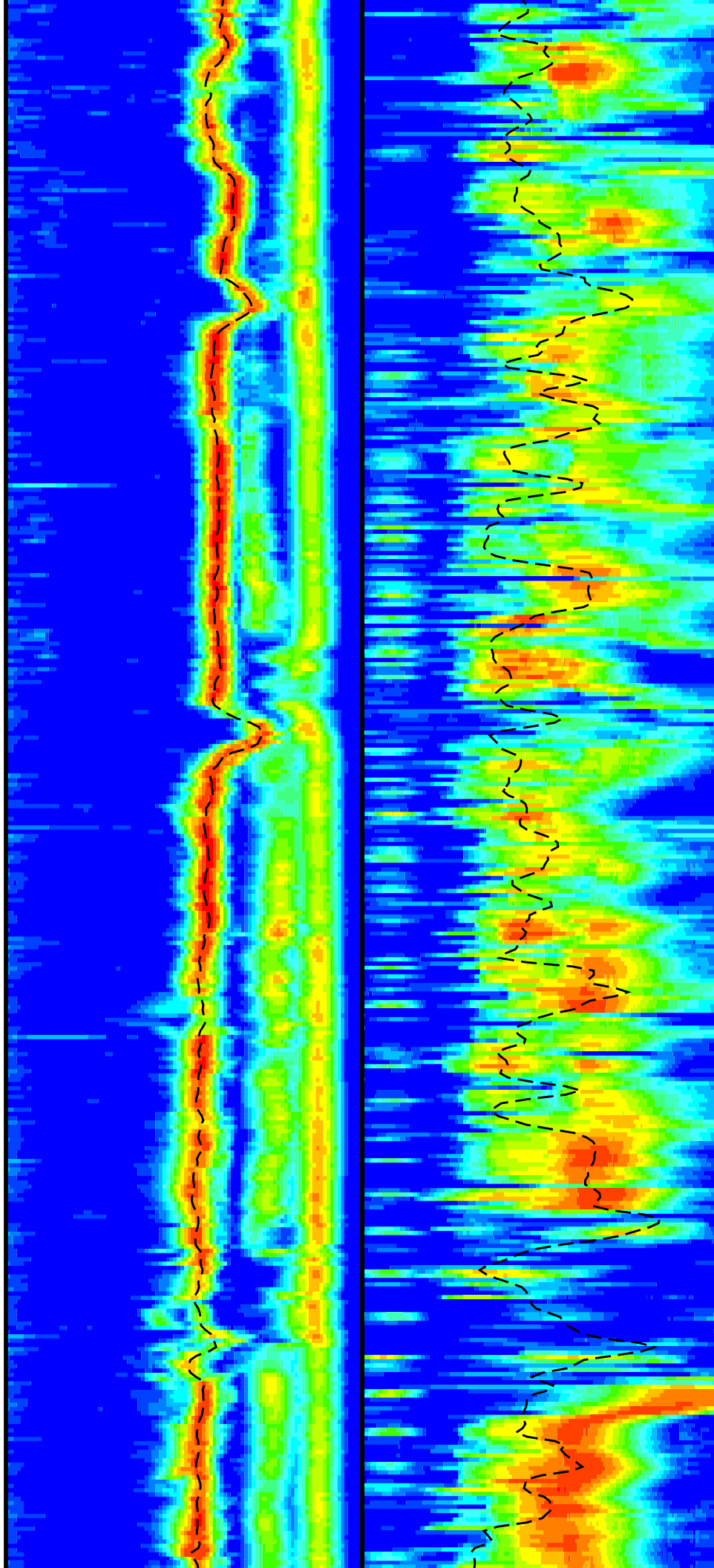
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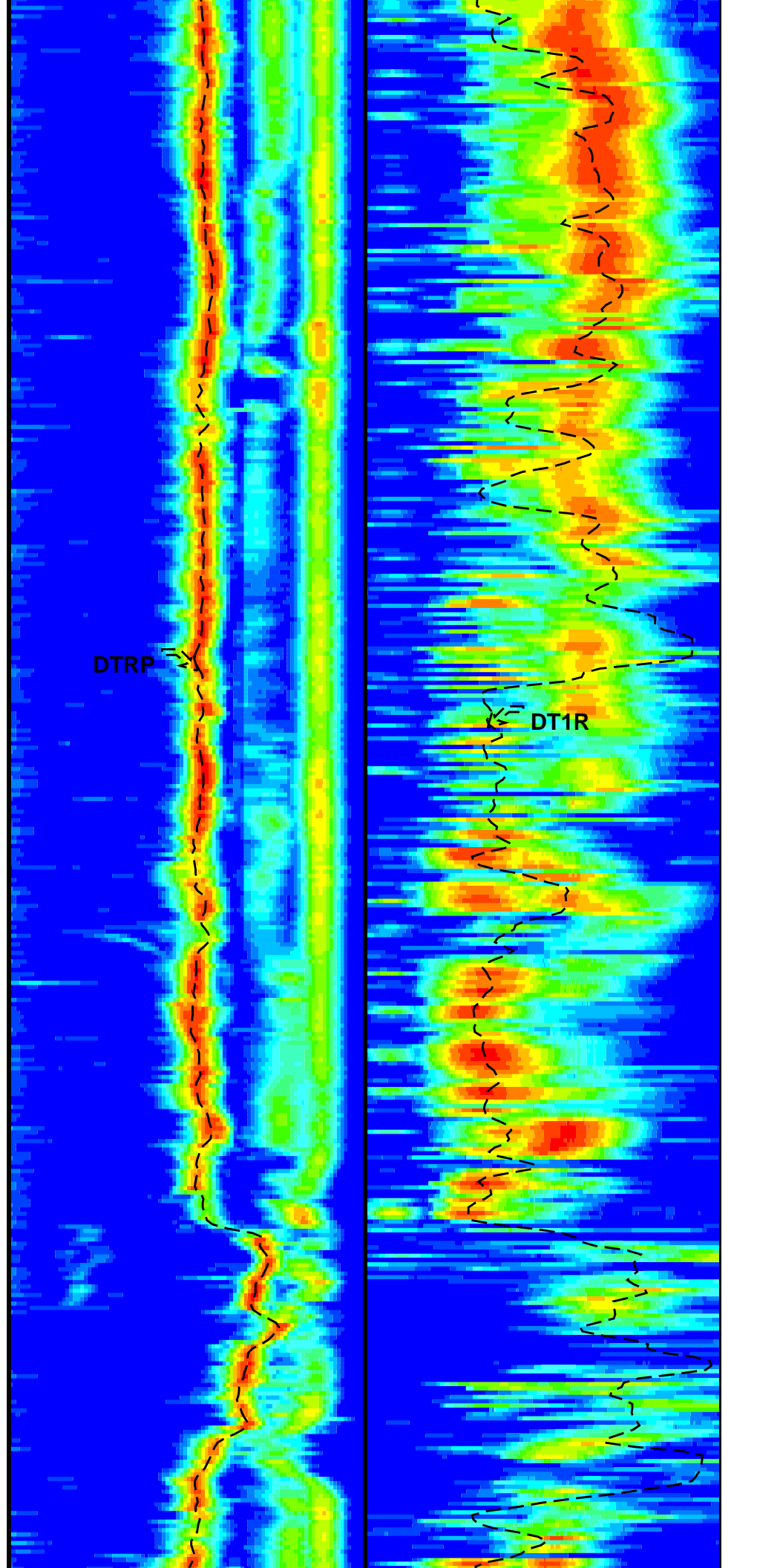
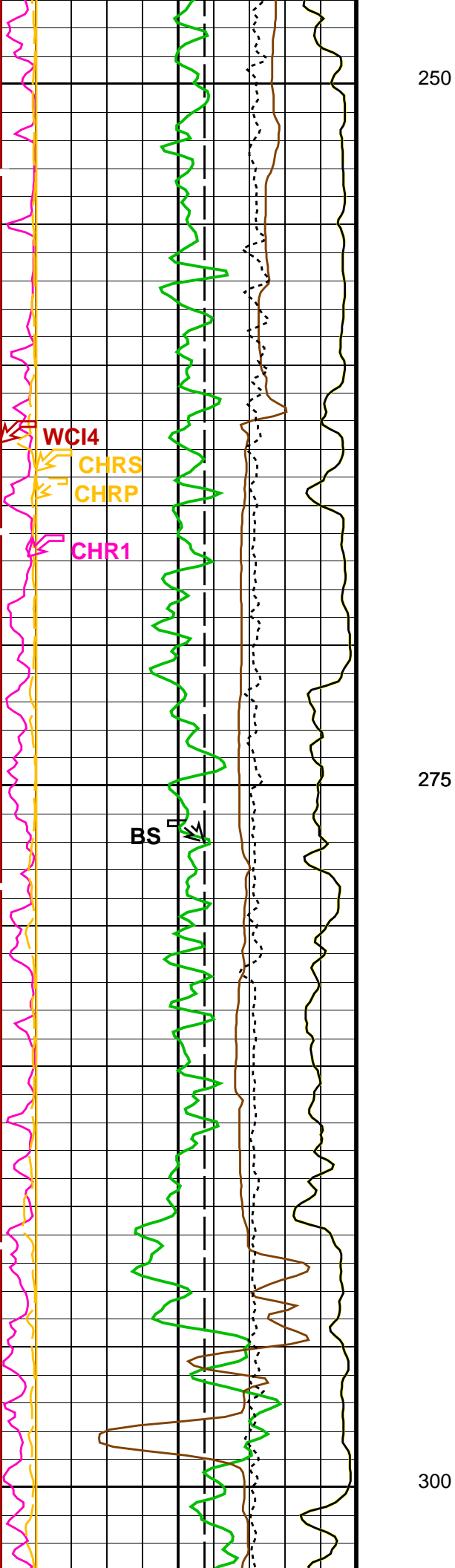


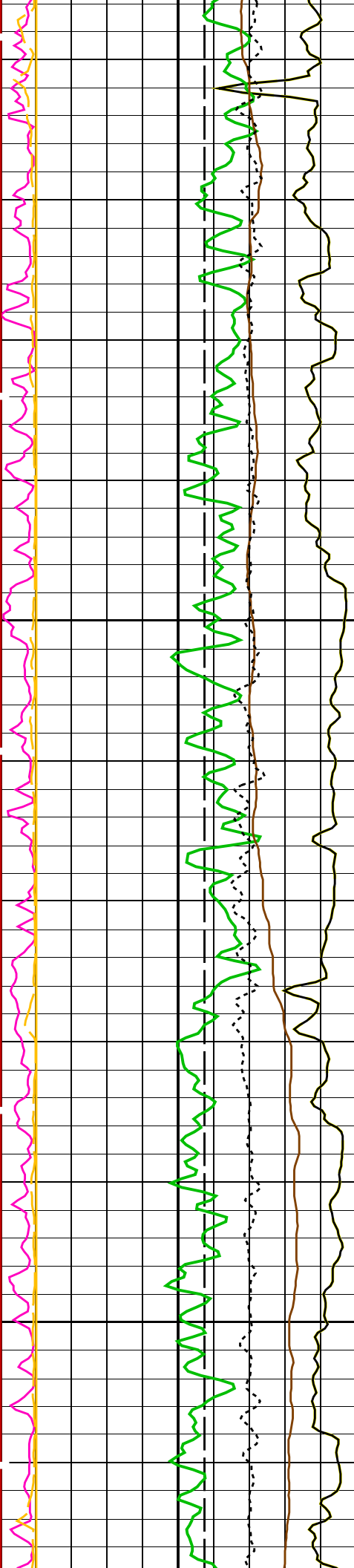


200

225

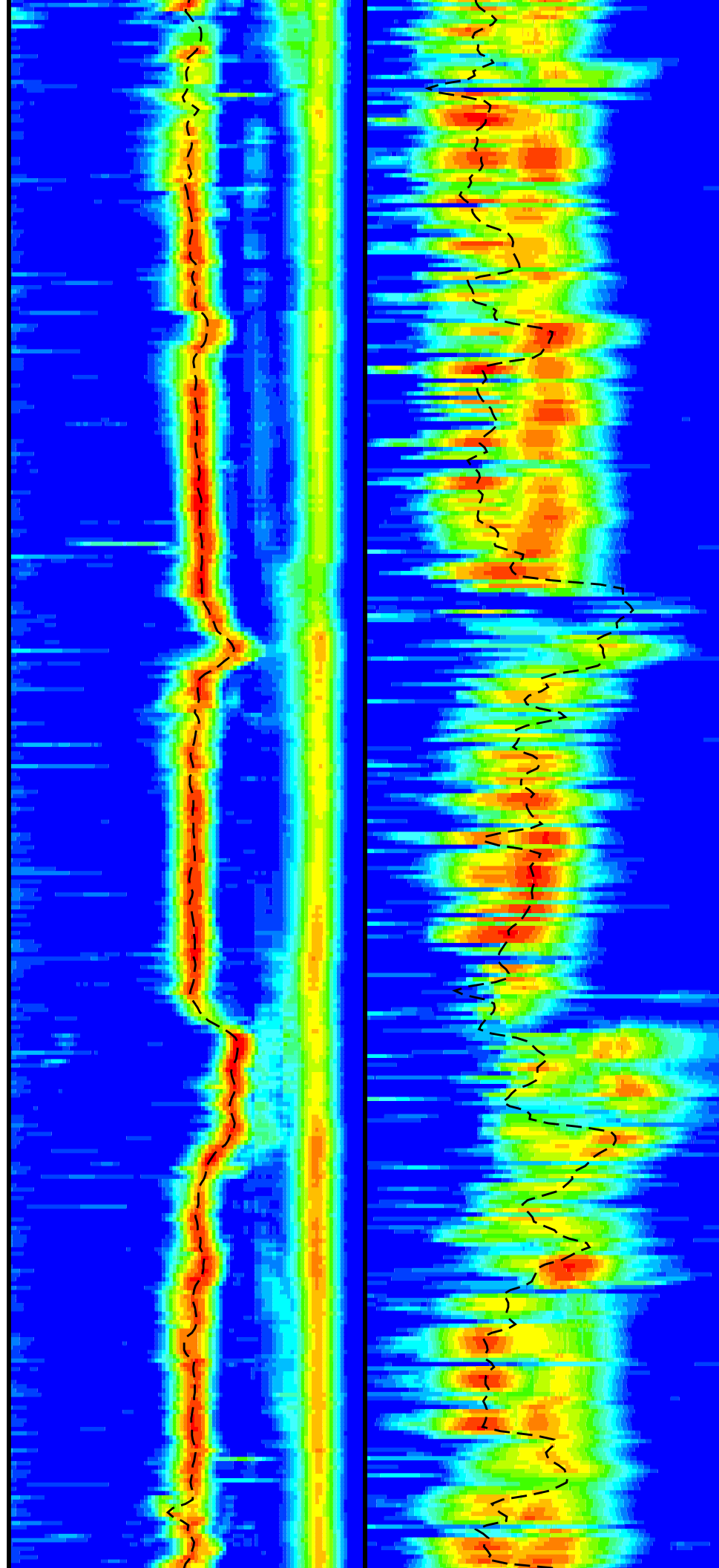


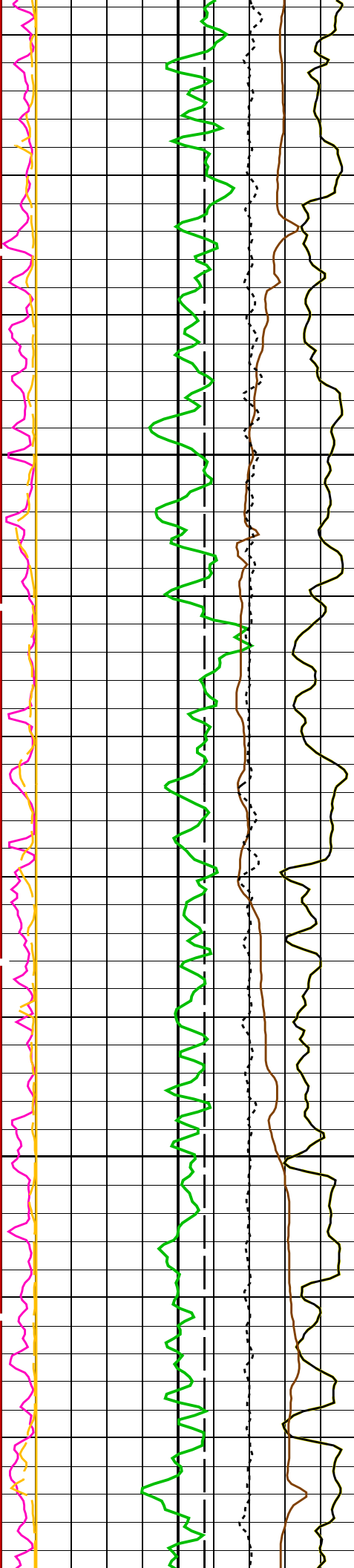




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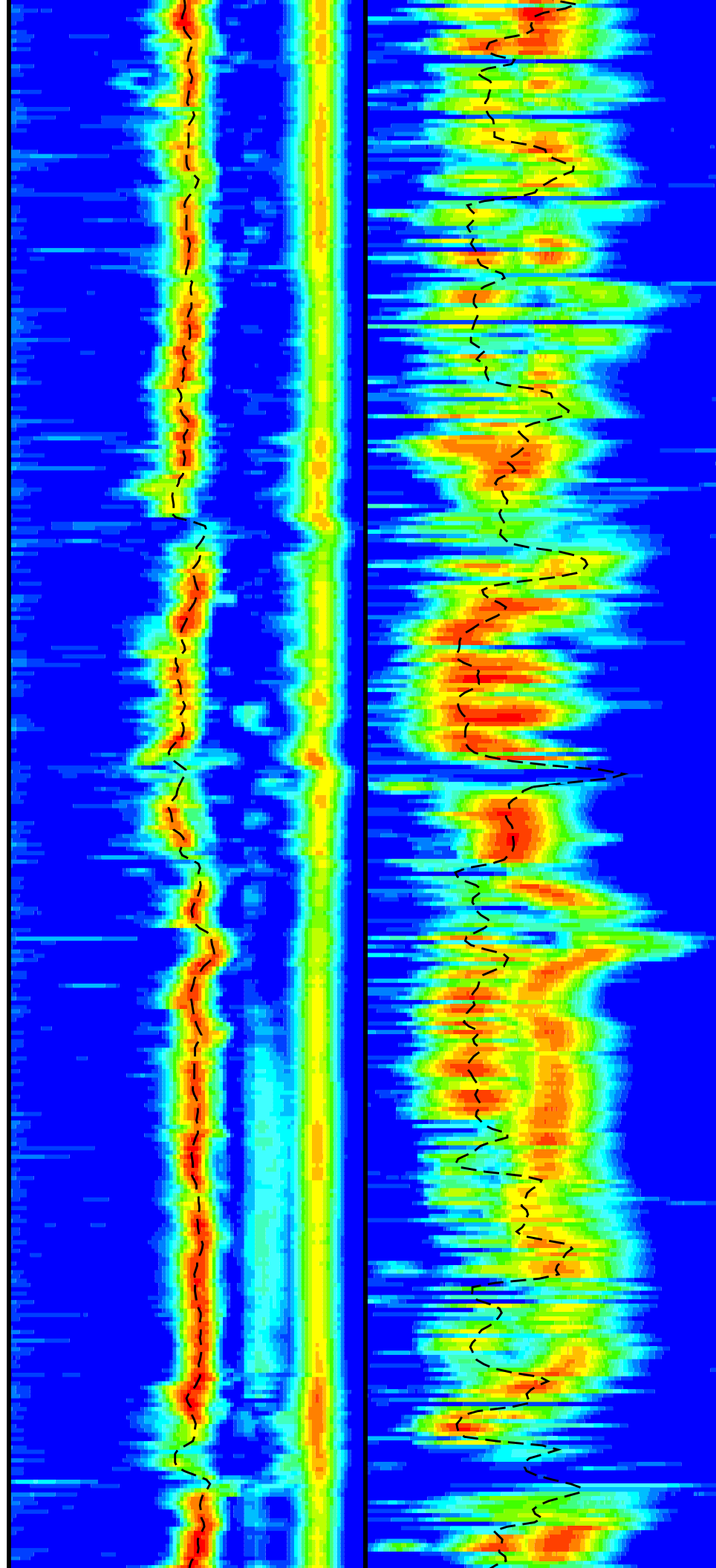
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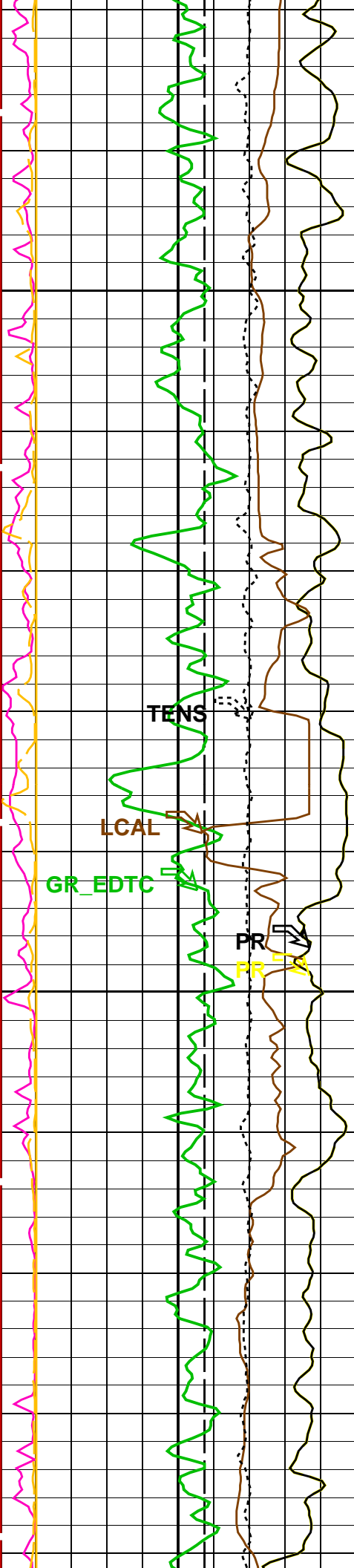




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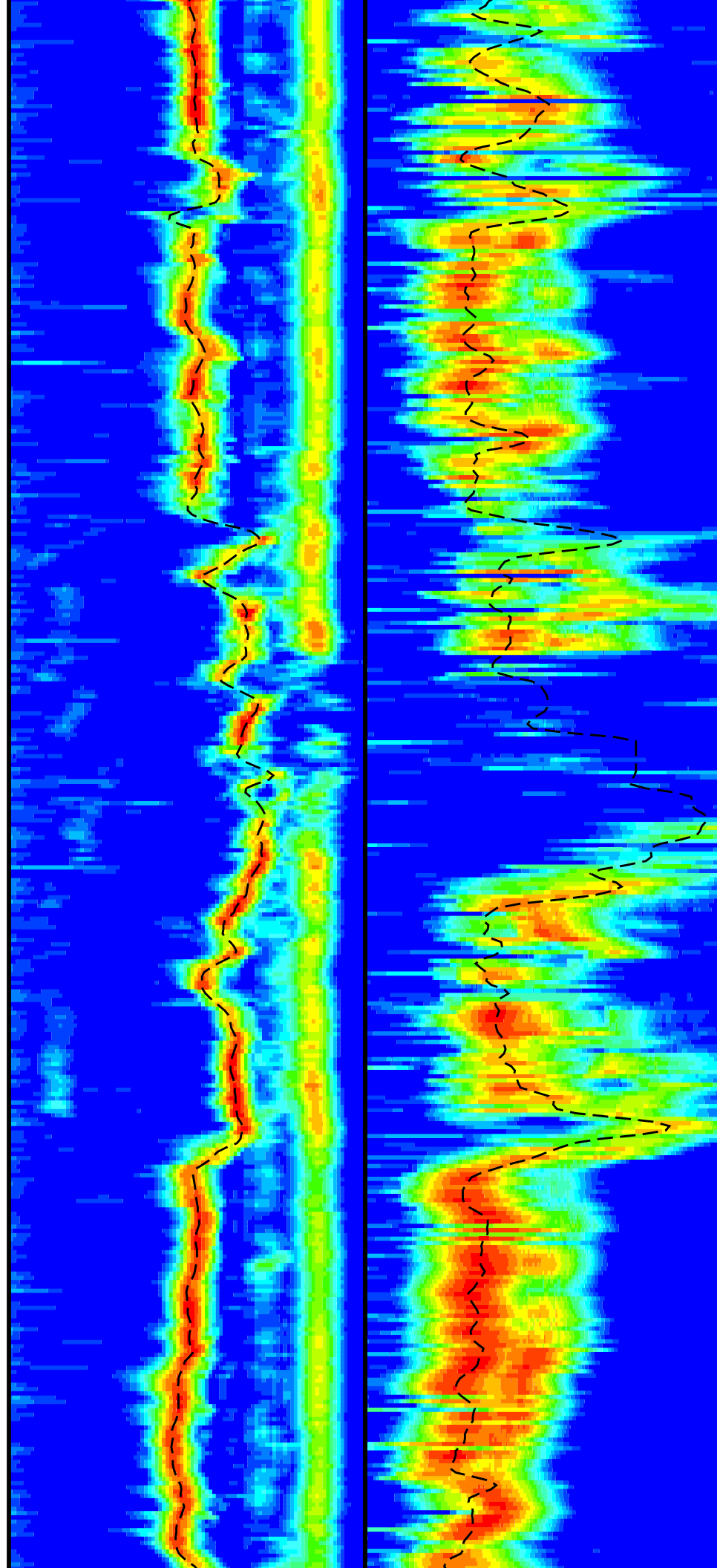
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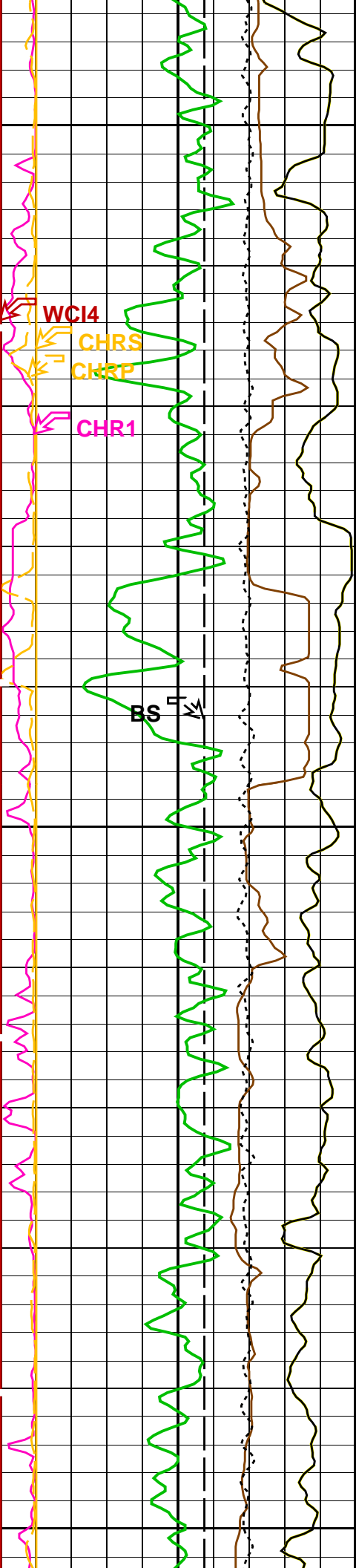




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450

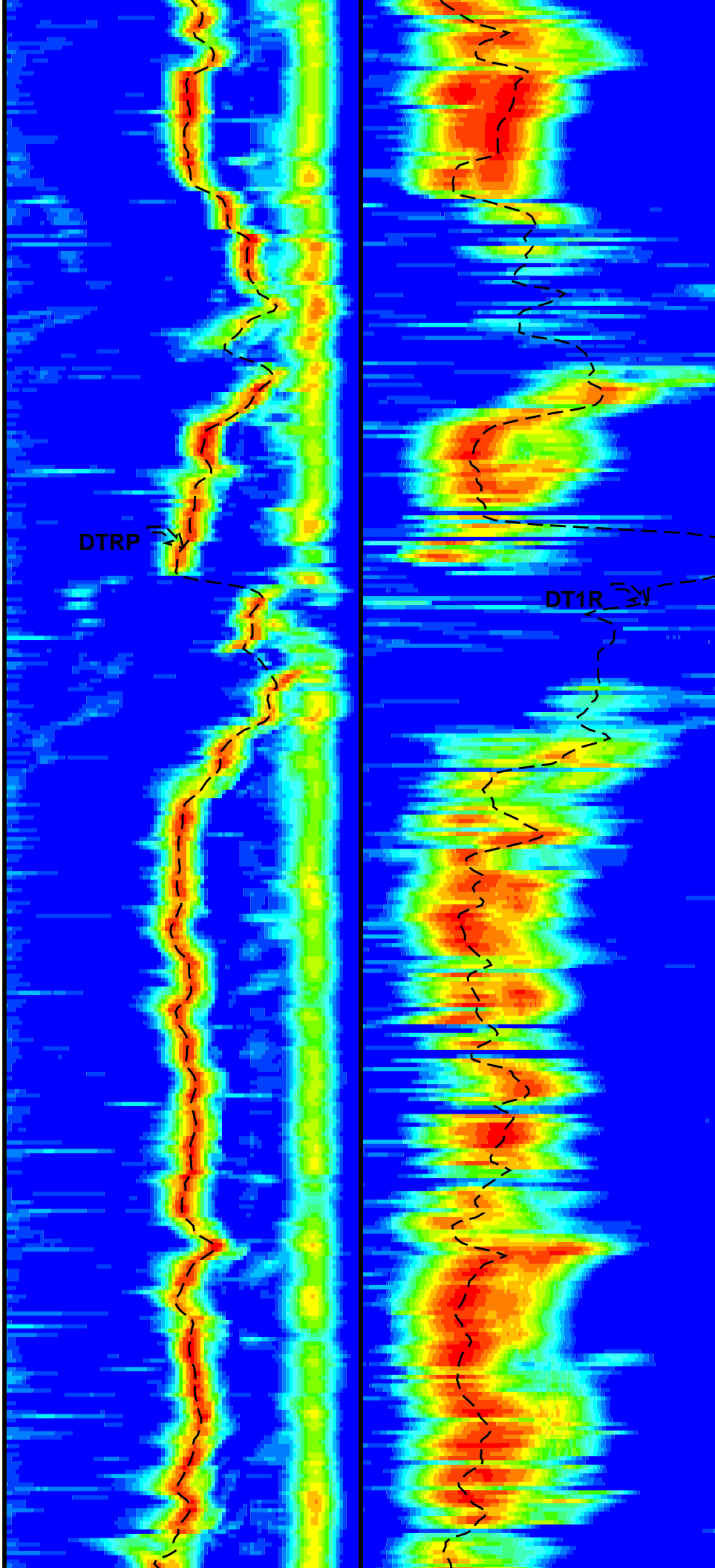




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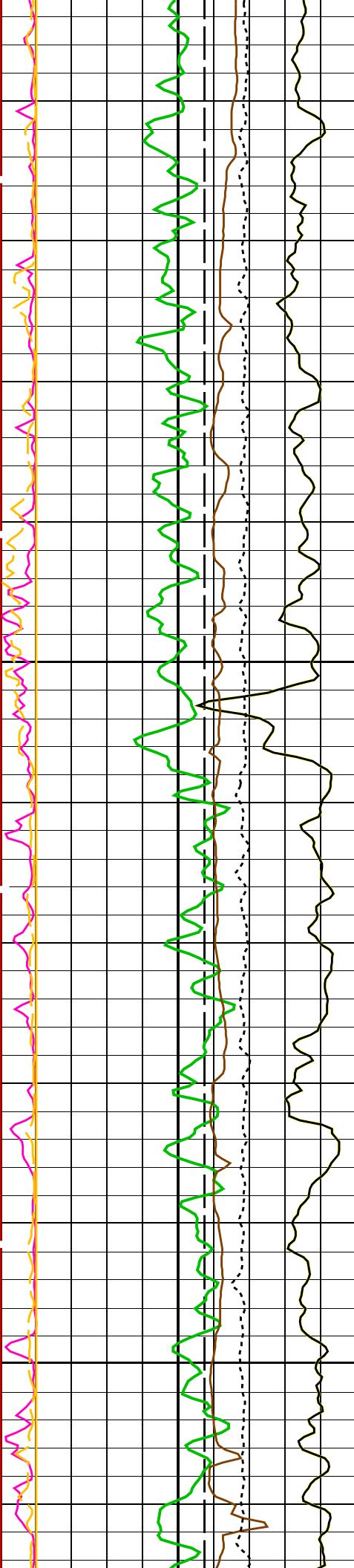
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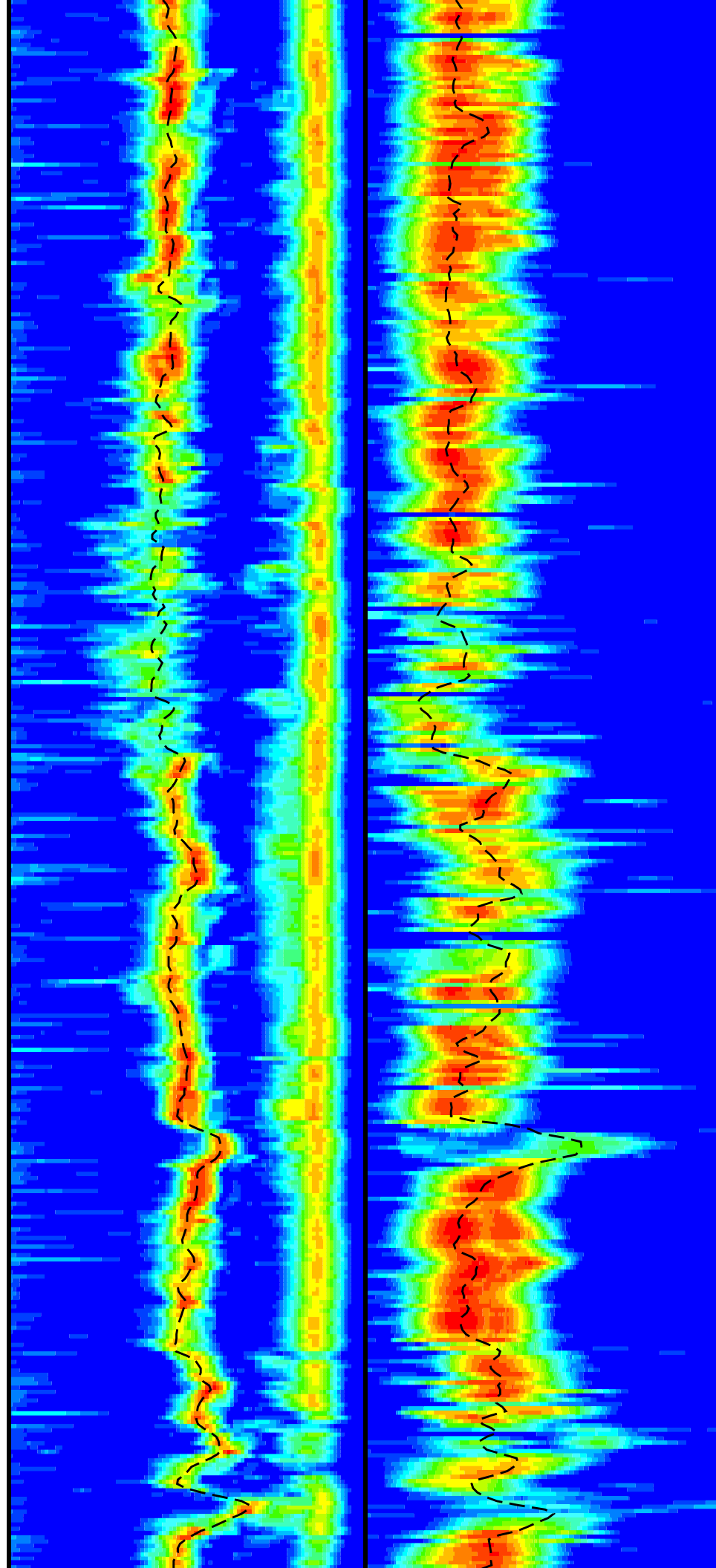
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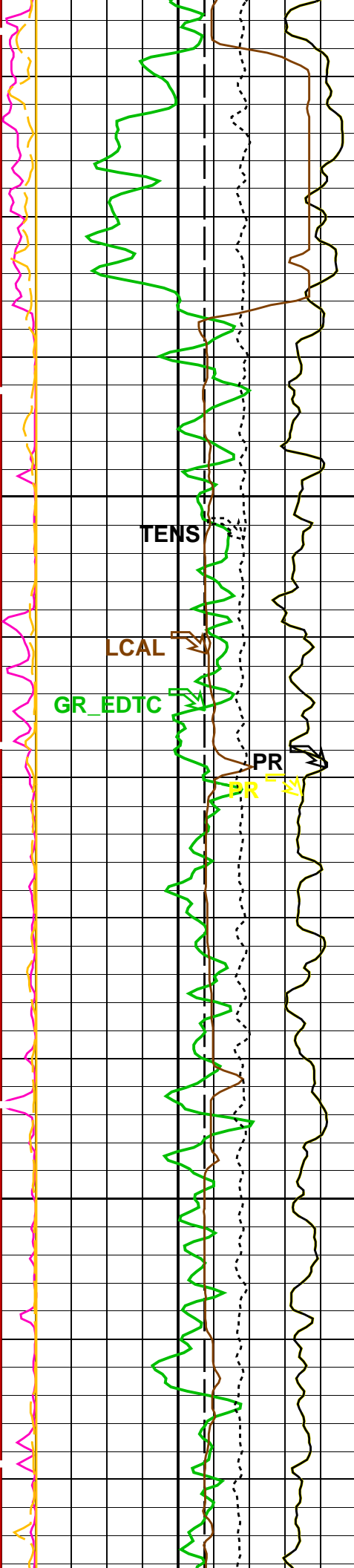
DT1R



550

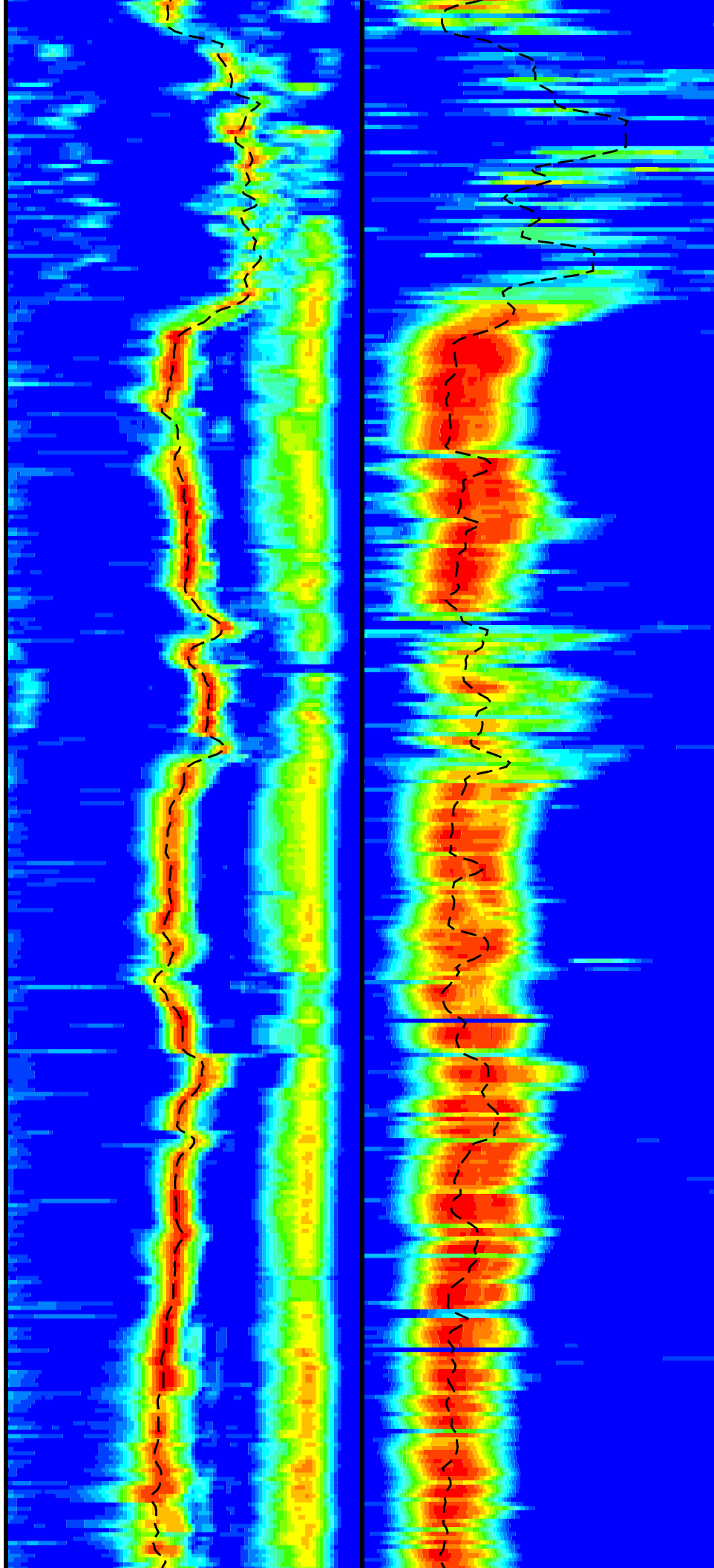
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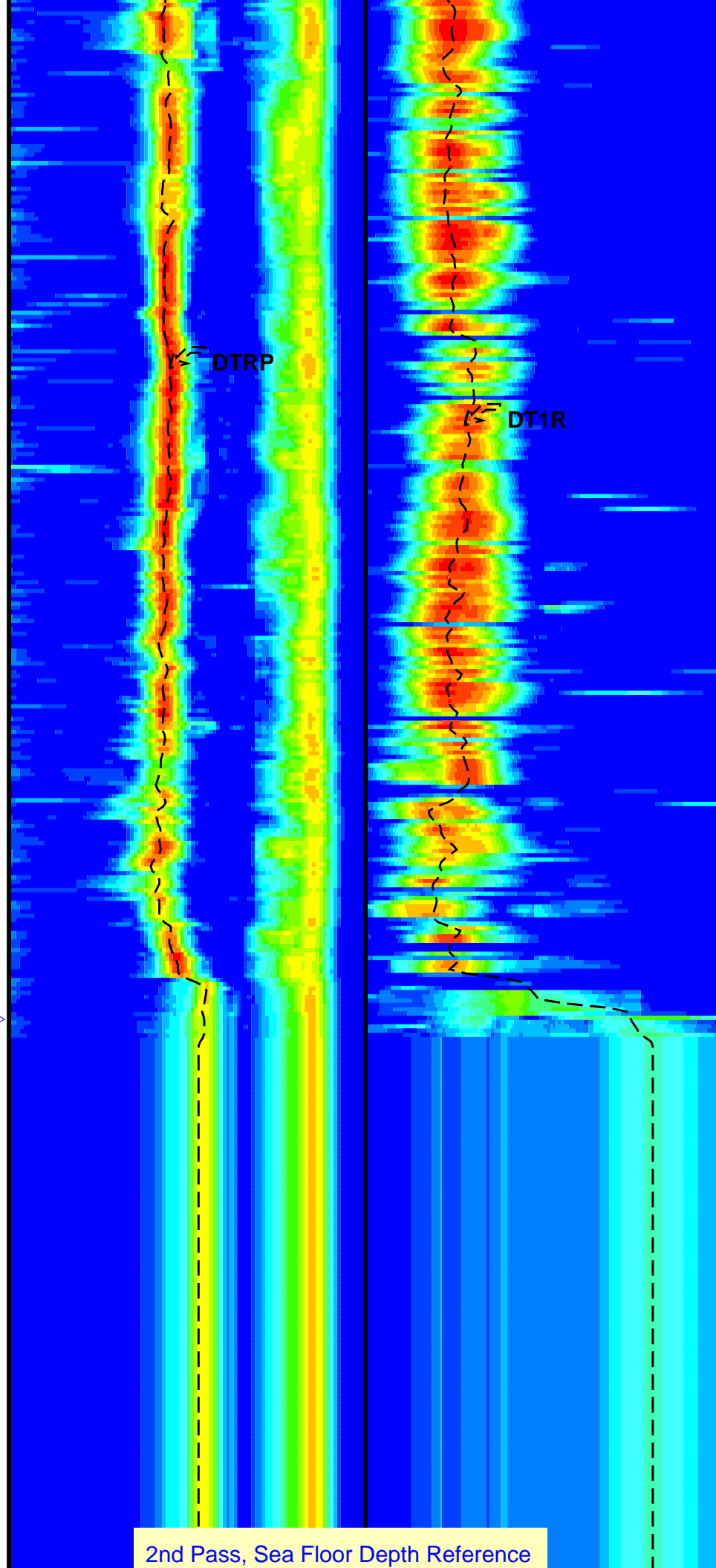
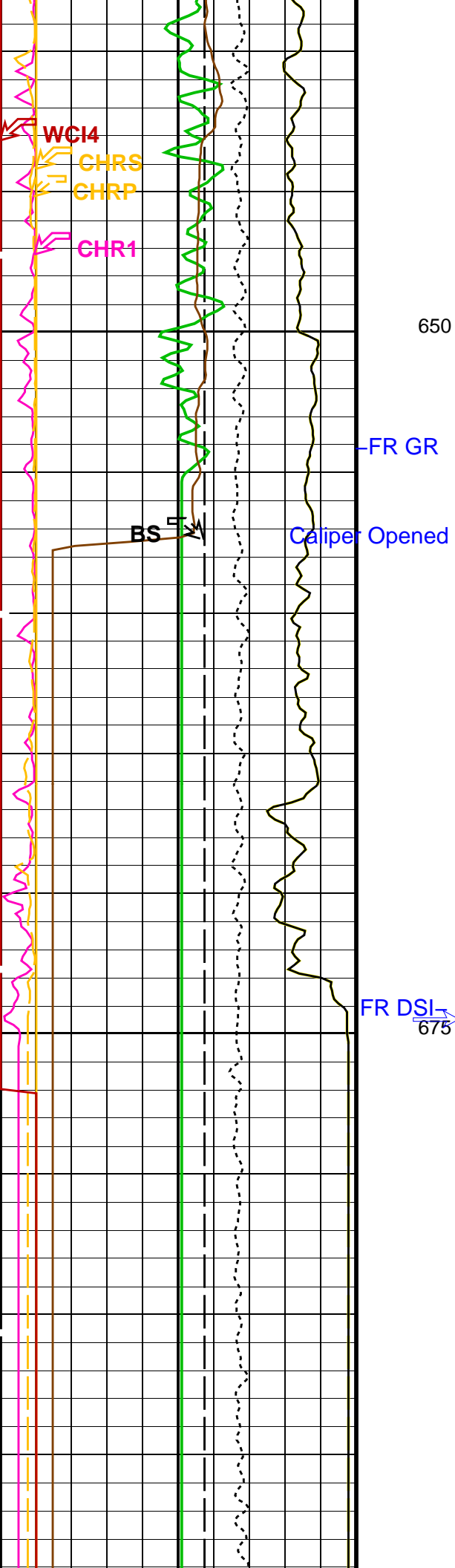




600

625





<div><div><div>Bit Size (BS)</div><div>(IN)</div><div>20</div></div><div><div>Poisson's Ratio (PR)</div><div>(-----)</div><div>0.5</div></div><div><div>HLDS Caliper (LCAL)</div><div>(IN)</div><div>20</div></div><div><div>Tension (TENS)</div><div>(LBF)</div><div>10000</div><div>0</div></div><div><div>Poisson's Ratio (PR)</div><div>(-----)</div><div>0.5</div></div><div><div>Gamma Ray (GR_EDTC)</div><div>(GAPI)</div><div>75</div></div><div><div>Peak Coherence / RA – Lower Dipole (CHR1)</div><div>(-----)</div><div>10</div></div><div><div>Peak Coherence / RA – P & S Comp (CHRP)</div><div>(-----)</div><div>10</div></div><div><div>Peak Coherence / RA – P & S Shear (CHRS)</div><div>(-----)</div><div>9</div></div><div><div>Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)</div><div>(-----)</div><div>10</div></div></div> <td>TD</td> <td><div><div><div>Delta-T Comp / RA – P & S (DTRP)</div><div>(US/F)</div><div>40</div><div>240</div></div><div><div>Delta-T Shear / RA – P & S (DTRS)</div><div>(US/F)</div><div>40</div><div>240</div></div><div><div>Min</div><div>Amplitude</div><div>Max</div><div>Rec.Array P&S Slow Proj. CVDL (SPR4)</div><div>(US/F)</div><div>40</div><div>240</div></div></div><div><div><div>Delta-T Shear / RA – Lower Dipole (DT1R)</div><div>(US/F)</div><div>75</div><div>1200</div></div><div><div>Min</div><div>Amplitude</div><div>Max</div><div>Rec.Array L.Dipole Slow Proj. CVDL (SPR1)</div><div>(US/F)</div><div>75</div><div>1200</div></div></div></td>	TD	<div><div><div>Delta-T Comp / RA – P & S (DTRP)</div><div>(US/F)</div><div>40</div><div>240</div></div><div><div>Delta-T Shear / RA – P & S (DTRS)</div><div>(US/F)</div><div>40</div><div>240</div></div><div><div>Min</div><div>Amplitude</div><div>Max</div><div>Rec.Array P&S Slow Proj. CVDL (SPR4)</div><div>(US/F)</div><div>40</div><div>240</div></div></div> <div><div><div>Delta-T Shear / RA – Lower Dipole (DT1R)</div><div>(US/F)</div><div>75</div><div>1200</div></div><div><div>Min</div><div>Amplitude</div><div>Max</div><div>Rec.Array L.Dipole Slow Proj. CVDL (SPR1)</div><div>(US/F)</div><div>75</div><div>1200</div></div></div>
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PIP SUMMARY			
Time Mark Every 60 S			

Parameters			
DLIS Name	Description	Value	
DIT-E: Dual Induction – E			
BHS	Borehole Status	OPEN	
DSST-B: Dipole Shear			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	118	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	195	US/F
DDE1	Digitizing Delay 1	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1200	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	195	US/F
DTSS	Shear Delta-T Source for DTSM Channel	LOWER_DIPOLE	
DWC1	Digitizer Word Count 1	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP	
LFC	Label Formation Character – Monopole P&S	COMP_FIRST	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI1	Number Waveform Items 1	8	

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
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN	
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	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL1	STC Slowness Lower Limit – Lower Dipole	75	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
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	1200	US/F
SUL1	STC Slowness Upper Limit – Lower Dipole	1200	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST1	STC Time Step – Lower Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL1	STC Time Upper Limit – Lower Dipole	20440	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
BHS	EDTC–B 8317: Enhanced DTS Cartridge Borehole Status	OPEN	
BS	System and Miscellaneous Bit Size	11.438	IN
DO	Depth Offset for Playback	–729.7	M
PP	Playback Processing	OFF	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 27–Jul–2013 15:11

OP System Version: 19C0–187

DIT–E	19C0–187	DTA–8259	19C0–187
DSST–B	19C0–187	HLDS	19C0–187
LDSC–B	19C0–187	EDTC–B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_018PUP	FN:29	PRODUCER	27–Jul–2013 15:01	1424.9 M	606.6 M
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Output DLIS Files

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BACKUP	PI_DSI_LDL_021PUP	FN:36	PRODUCER	27–Jul–2013 15:11

Output DLIS Files

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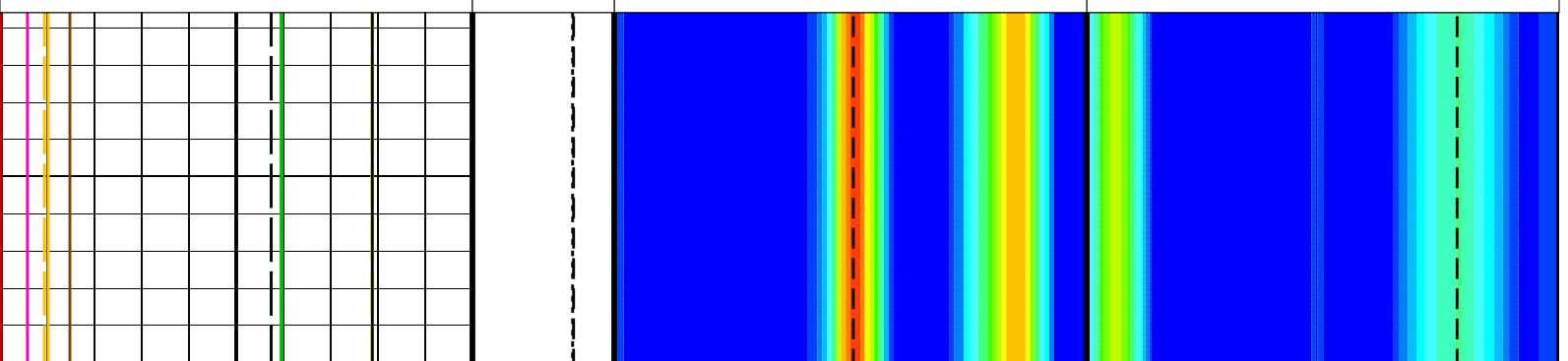
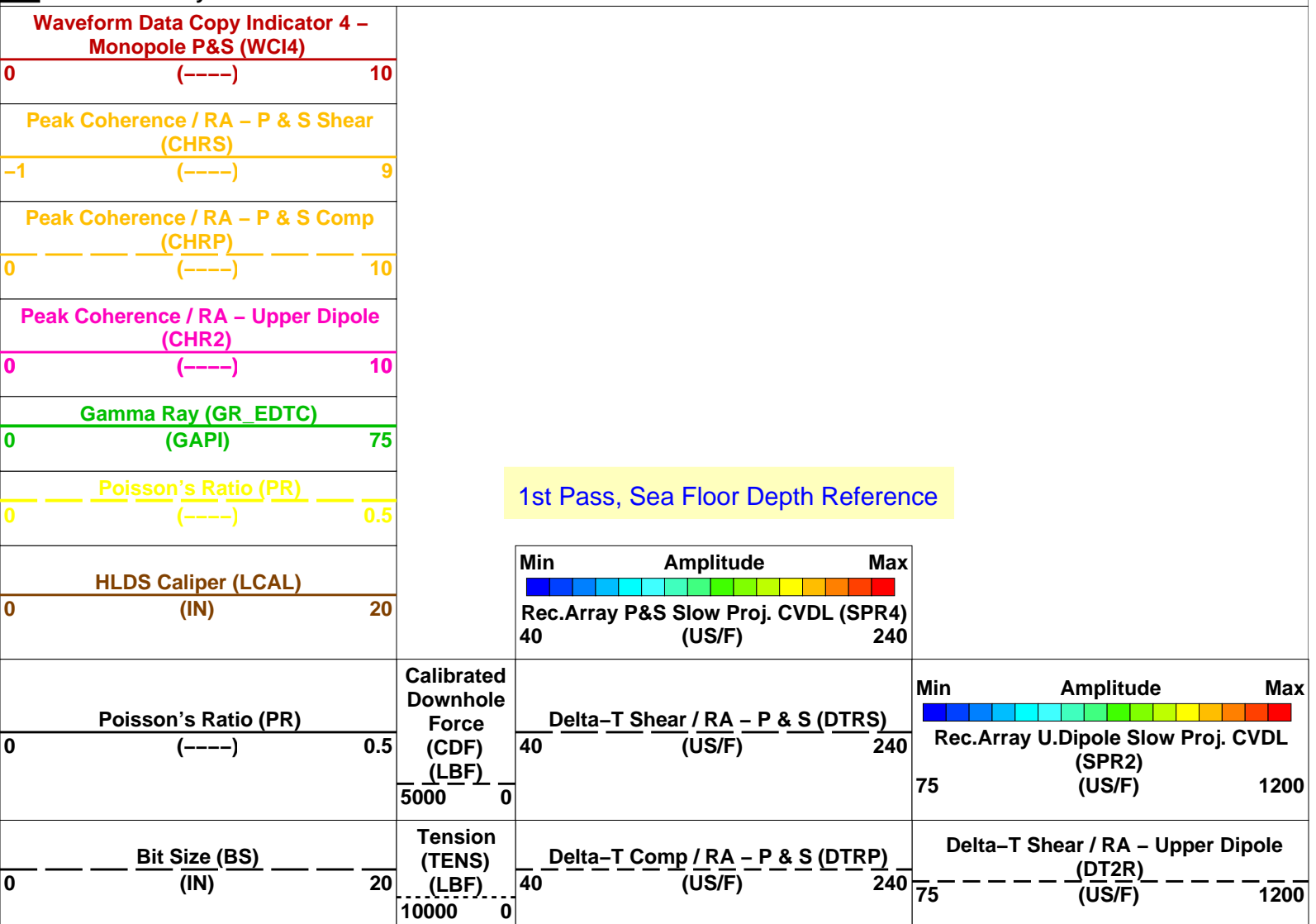
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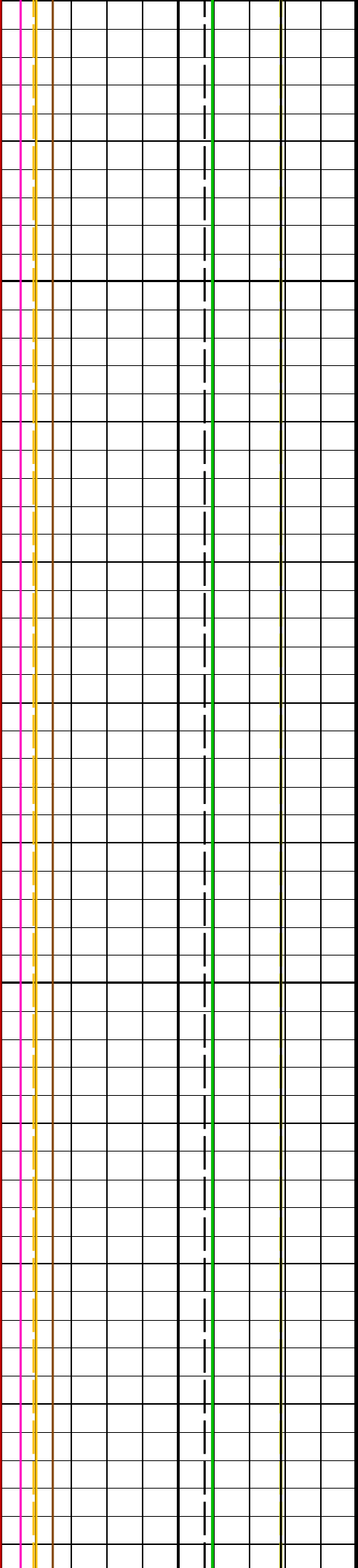
OP System Version: 19C0-187

DIT-E	19C0-187	DTA-8259	19C0-187
DSST-B	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	8317

PIP SUMMARY

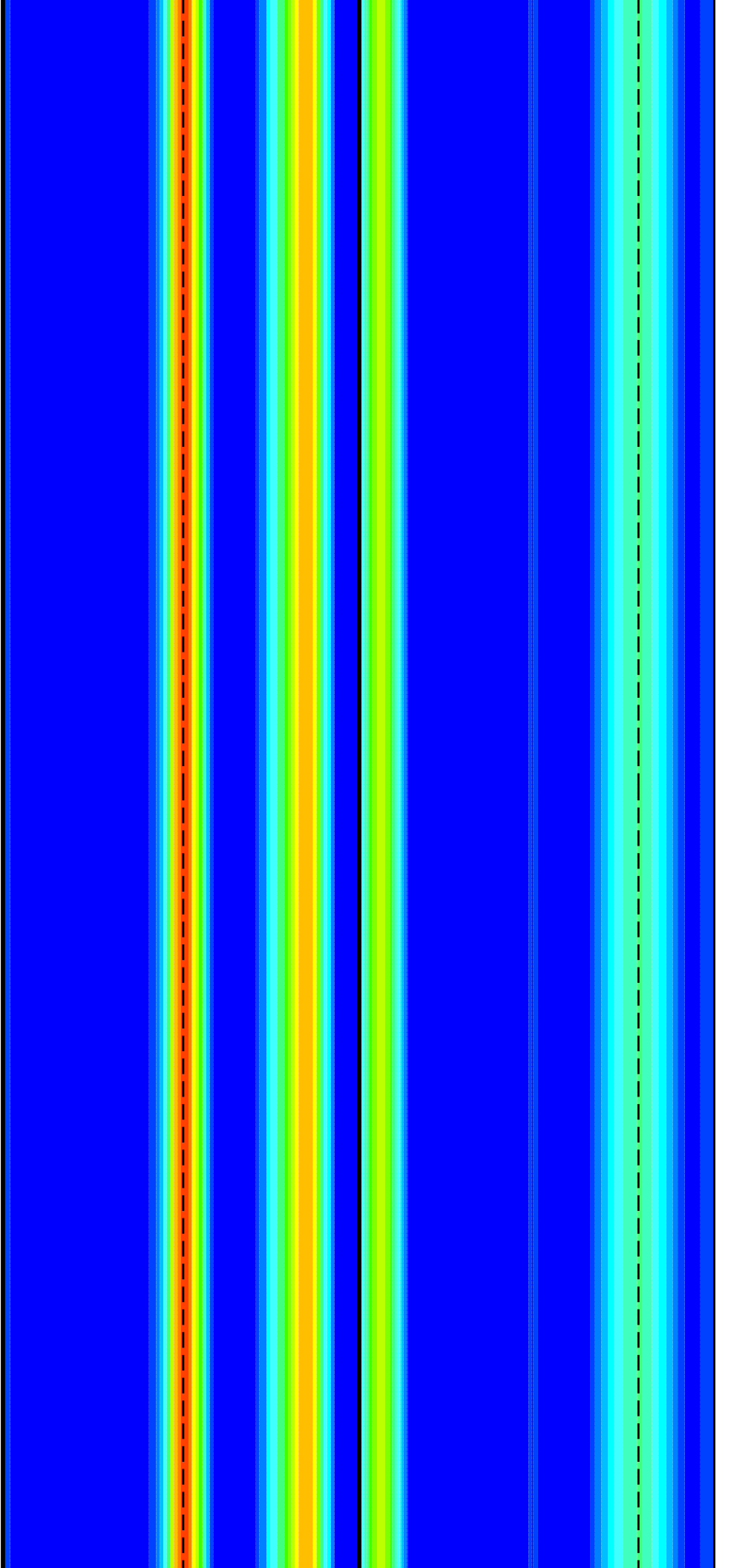
Time Mark Every 60 S

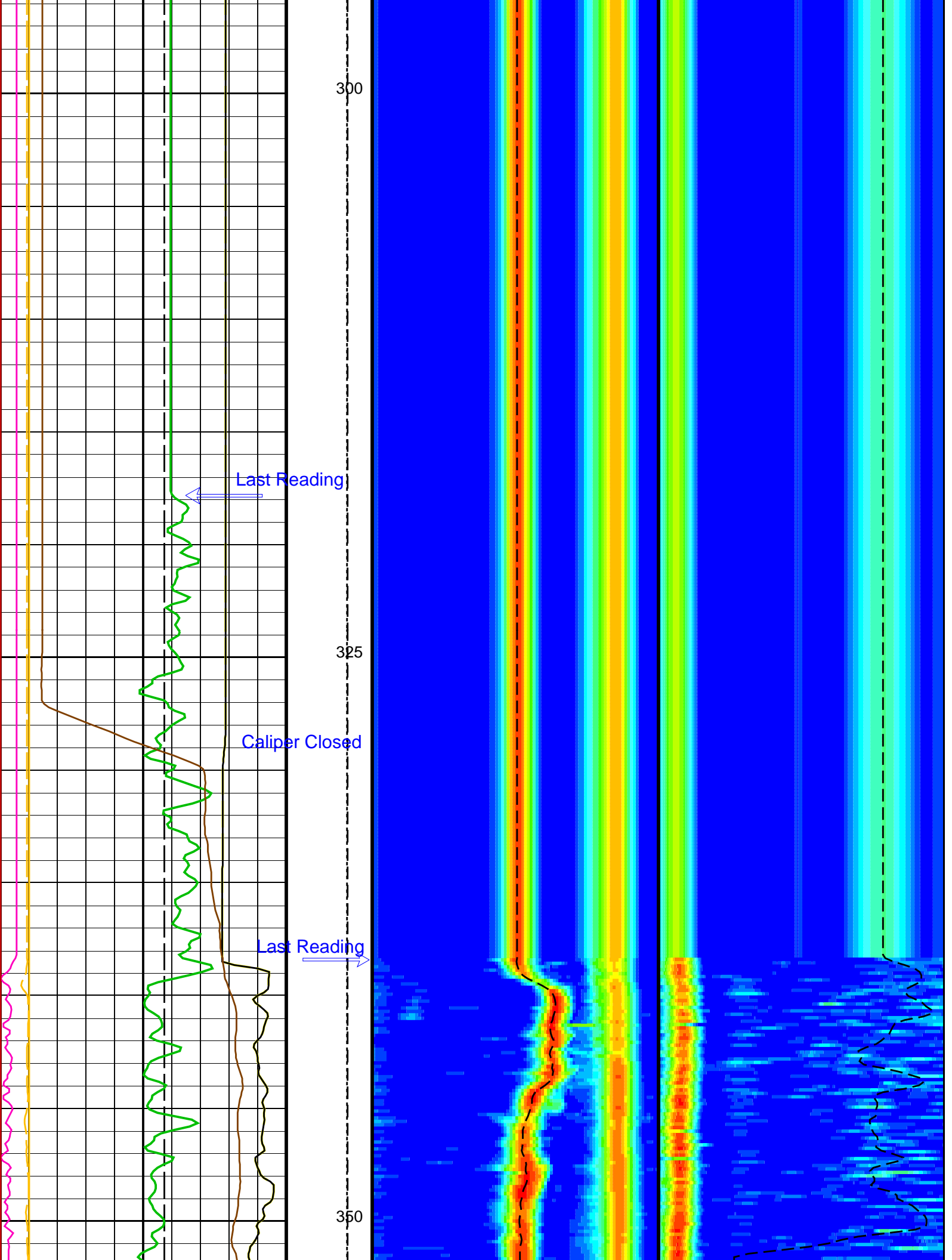


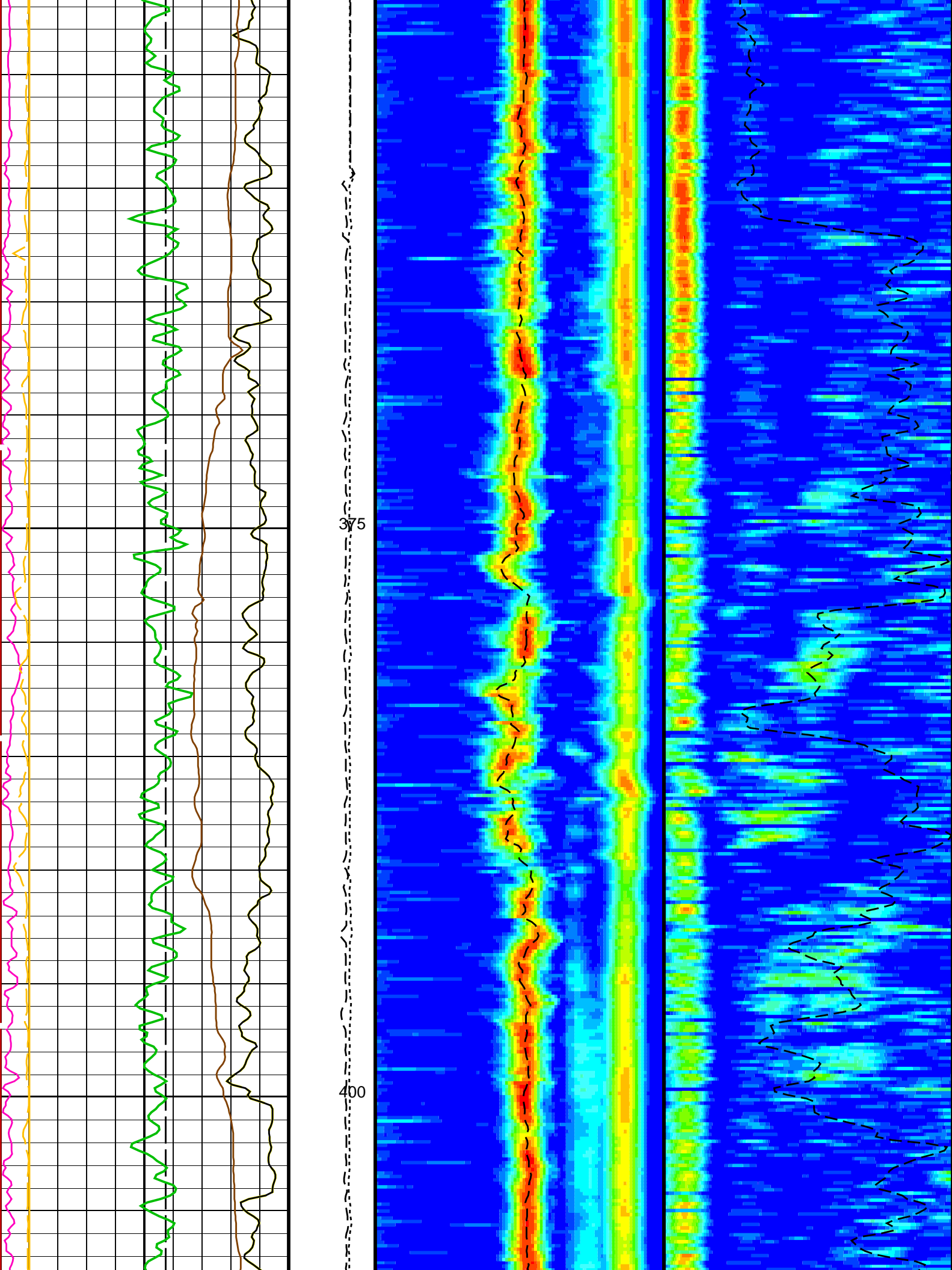


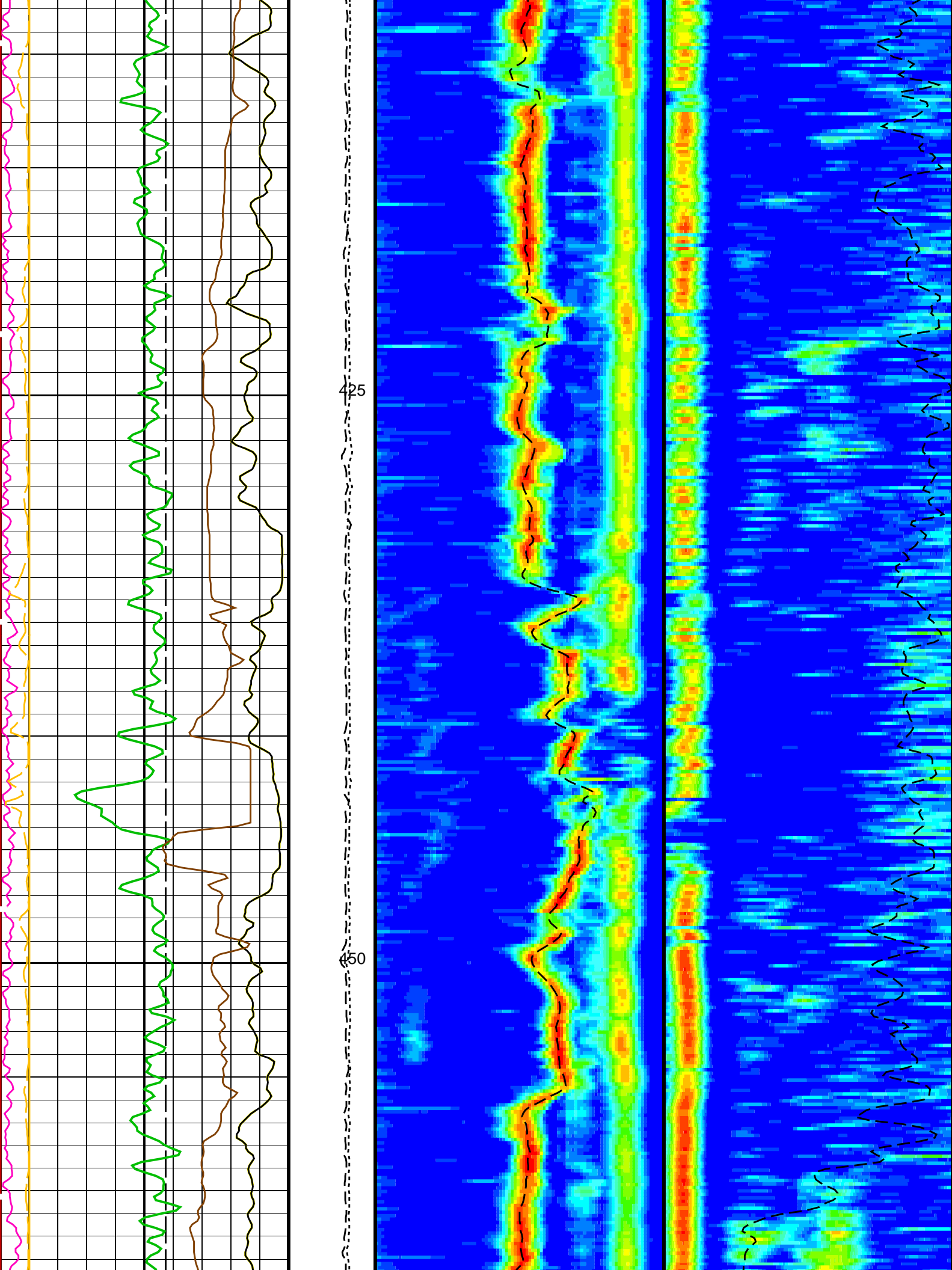
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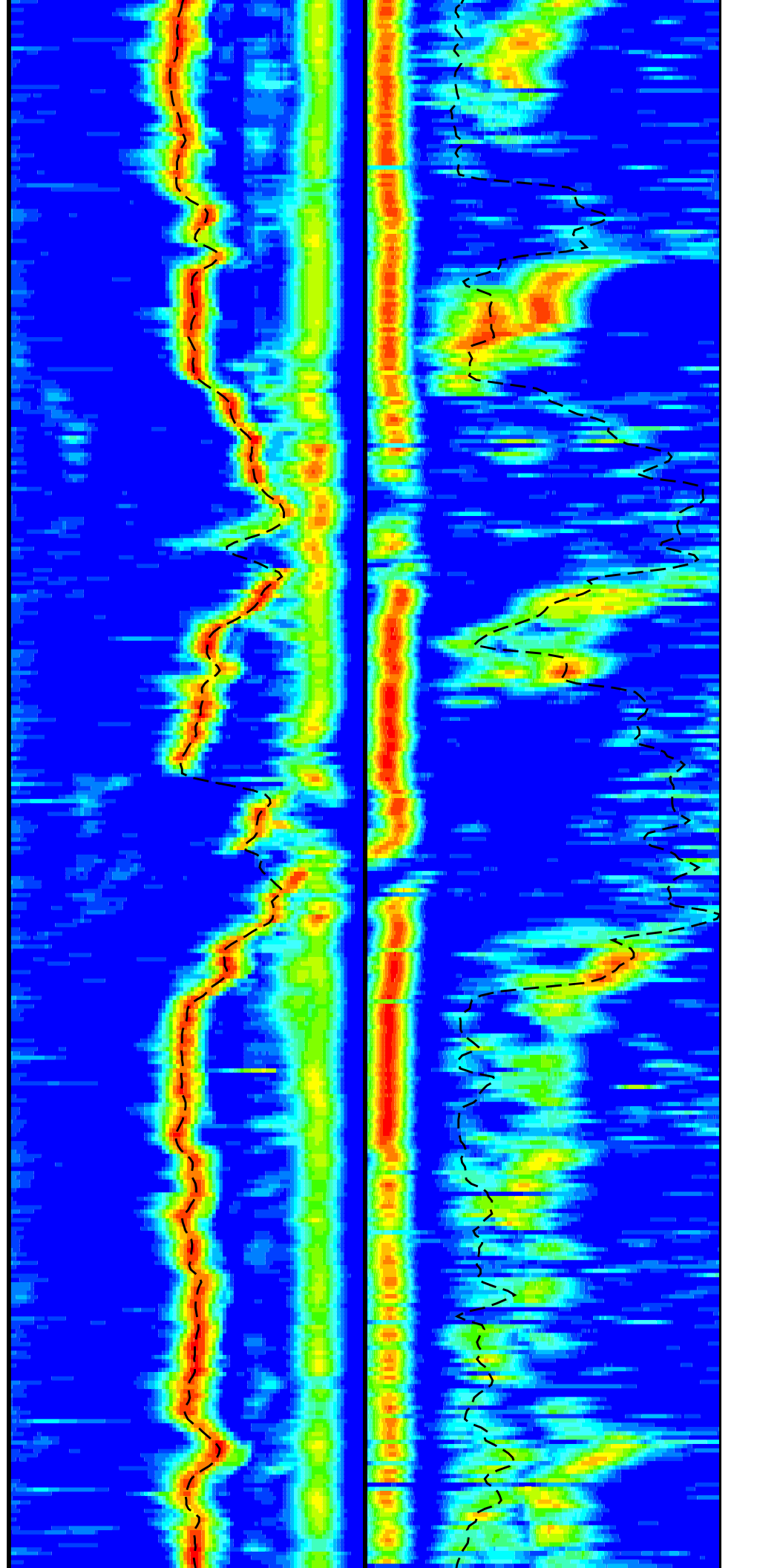
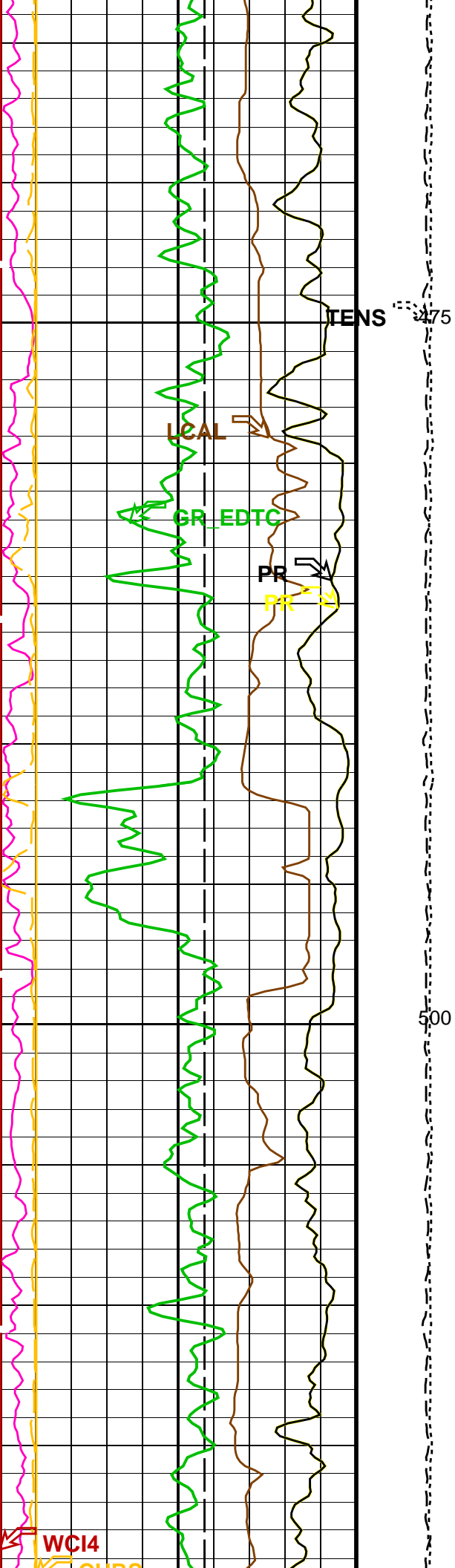
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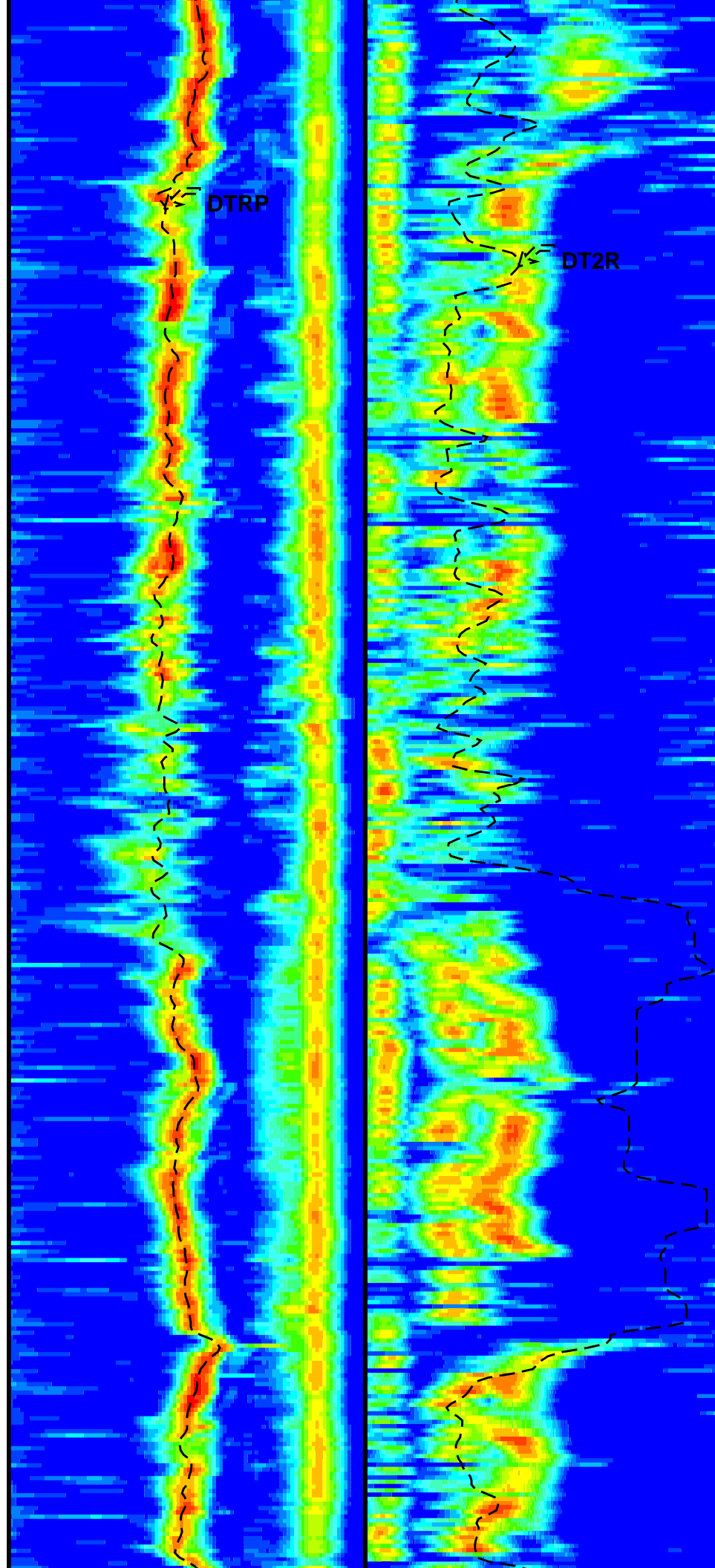
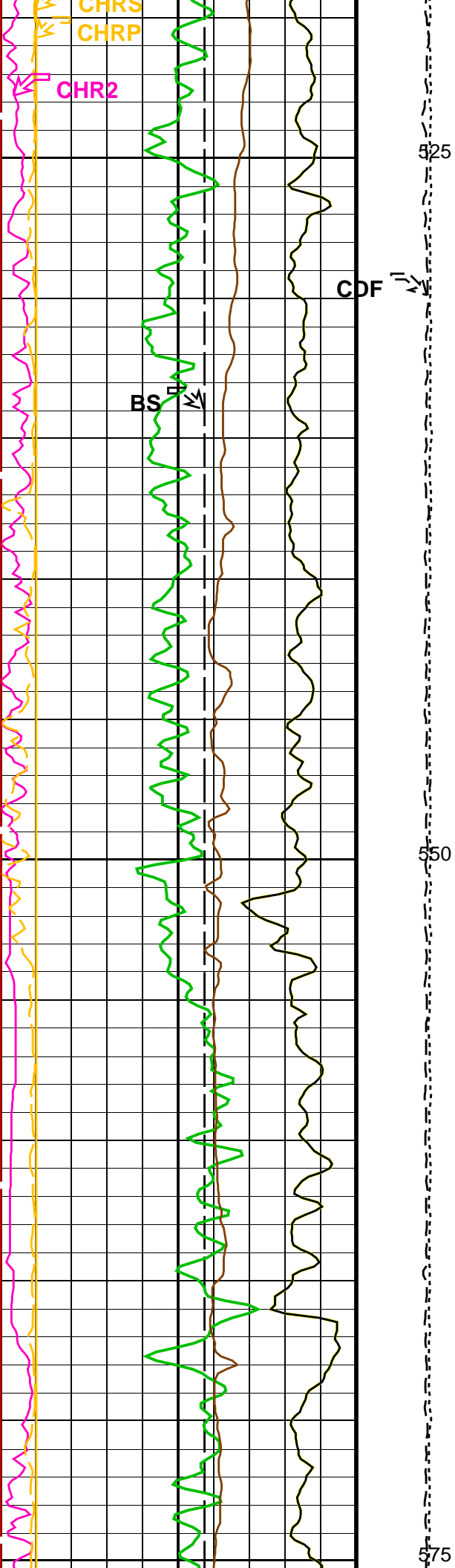


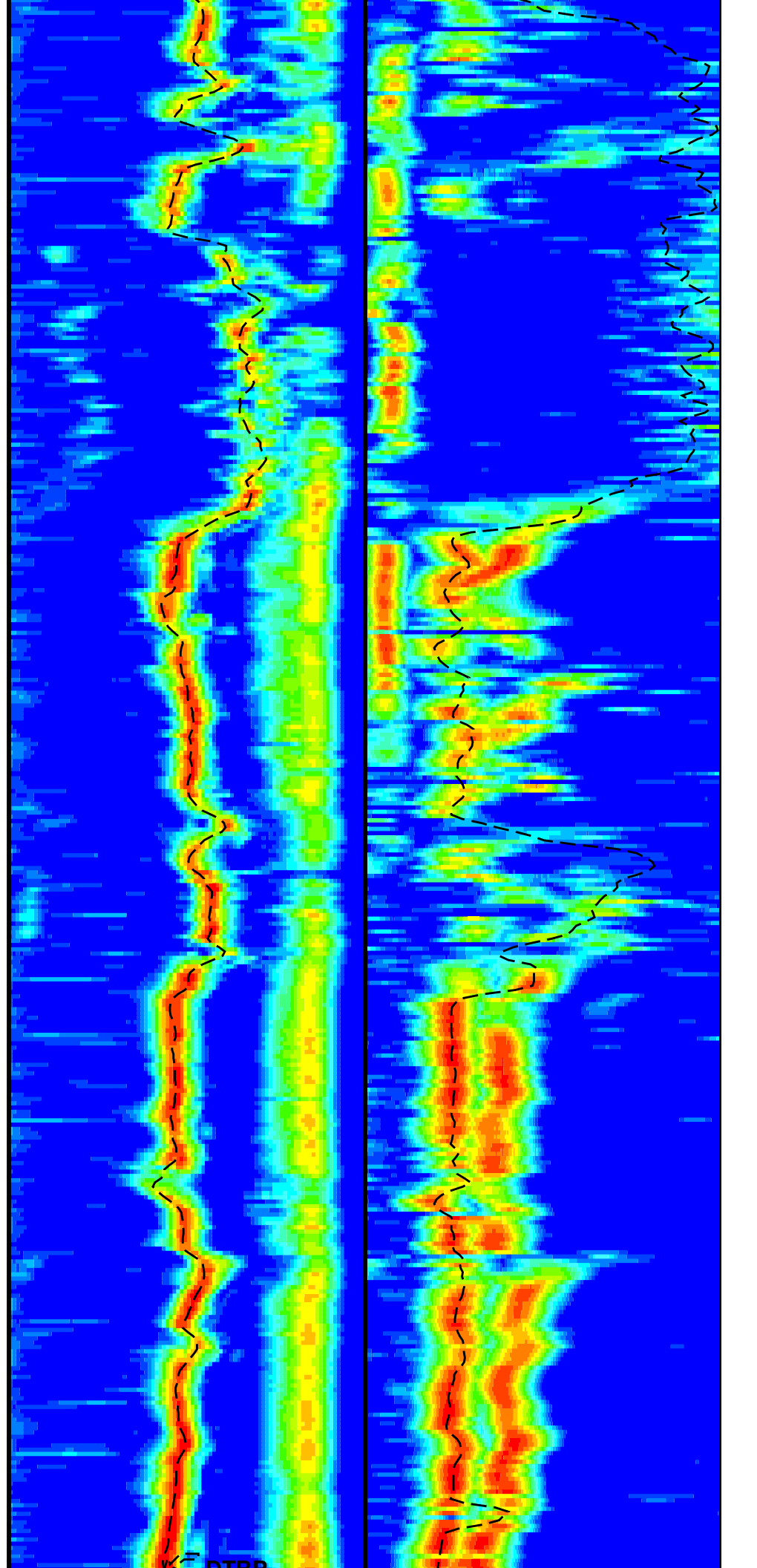
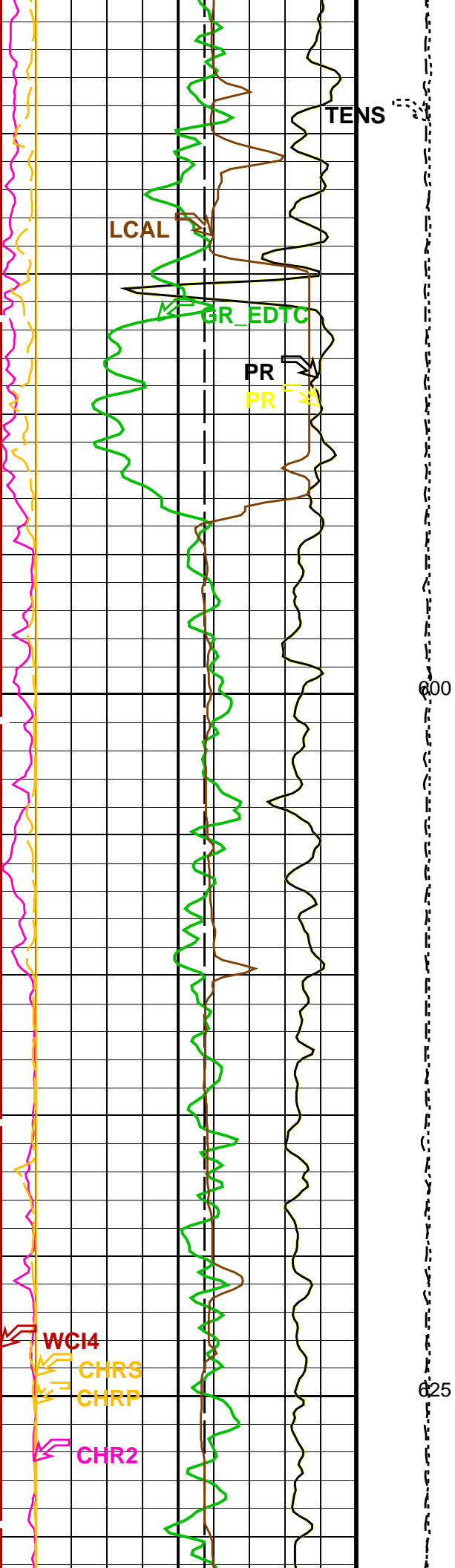


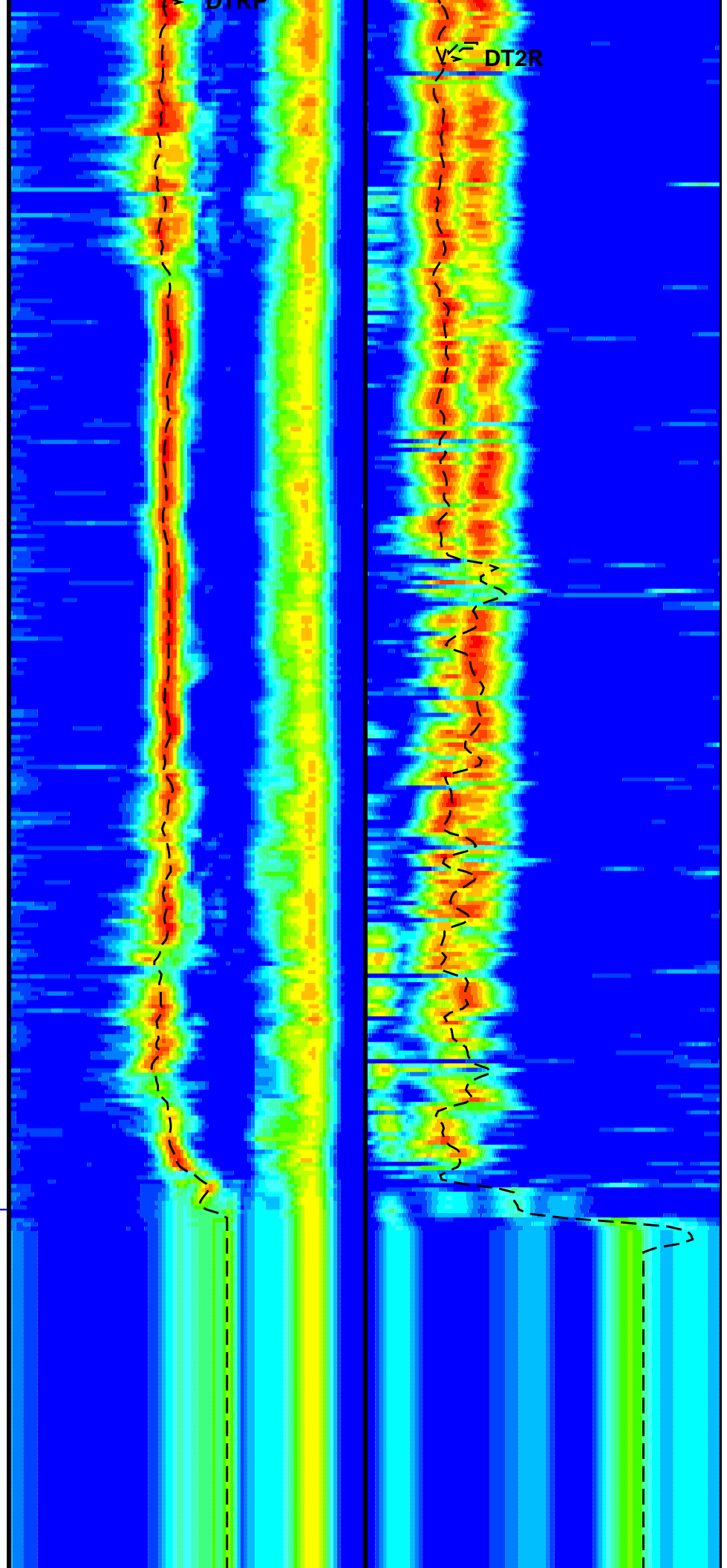
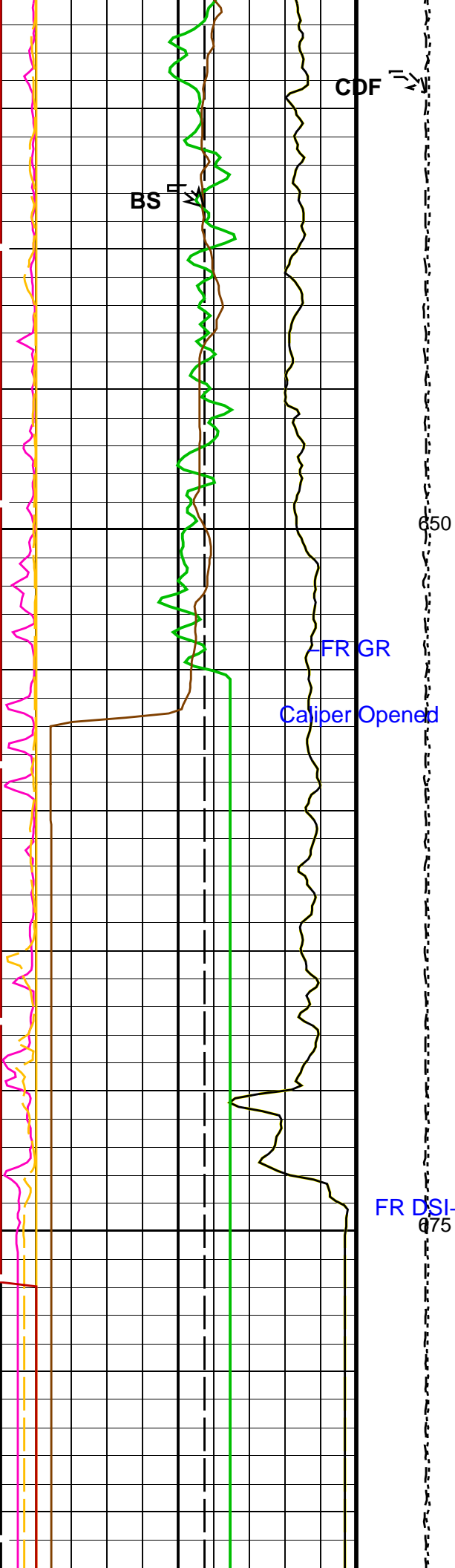












DWC2	Digitizer Word Count 2	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP	
LFC	Label Formation Character – Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
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
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
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	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B1–2K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
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	1200	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1200	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST2	STC Time Step – Upper Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL2	STC Time Upper Limit – Upper Dipole	20200	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
BHS	EDTC–B 8317: Enhanced DTS Cartridge Borehole Status	OPEN	
BS	System and Miscellaneous Bit Size	11.438	IN
DO	Depth Offset for Playback	–729.7	M
PP	Playback Processing	OFF	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 27–Jul–2013 15:09

OP System Version: 19C0–187

DIT–E	19C0–187	DTA–8259	19C0–187
DSST–B	19C0–187	HLDS	19C0–187
LDSC–B	19C0–187	EDTC–B	8317

Input DLIS Files

DEFAULT PL DSI LDI 017PIUP EN:27 PRODUCER 27–Jul–2013 14:57 1424.9 M 1003.1 M

DEFAULT	PI_DSI_LDL_020PUP	FN:27	PRODUCER	27-Jul-2013 14:57	1424.9 M	1003.1 M
BACKUP	PI_DSI_LDL_020PUP	FN:34	PRODUCER	27-Jul-2013 15:09		

Company: Lamont Doherty Earth Observatory Well: Expedition 341, Site U1421A

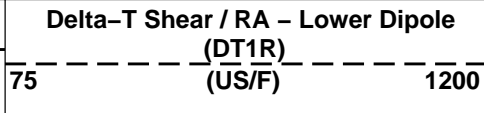
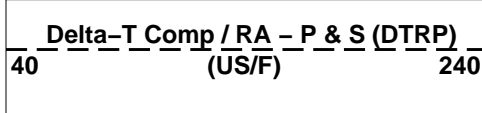
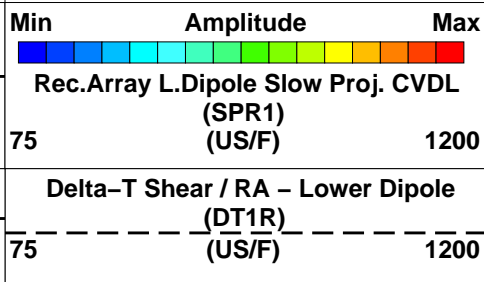
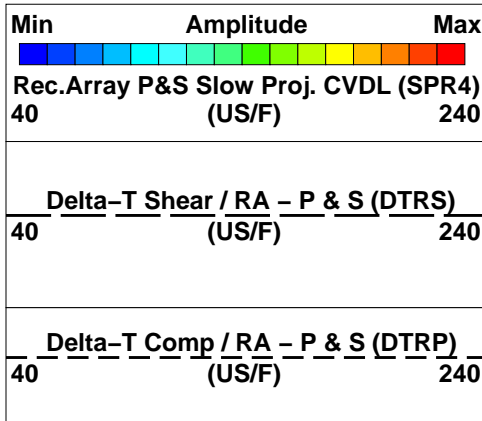
Input DLIS Files						
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Output DLIS Files						
DEFAULT	PI_DSI_LDL_020PUP	FN:33	PRODUCER	27-Jul-2013 15:09	694.9 M	230.6 M
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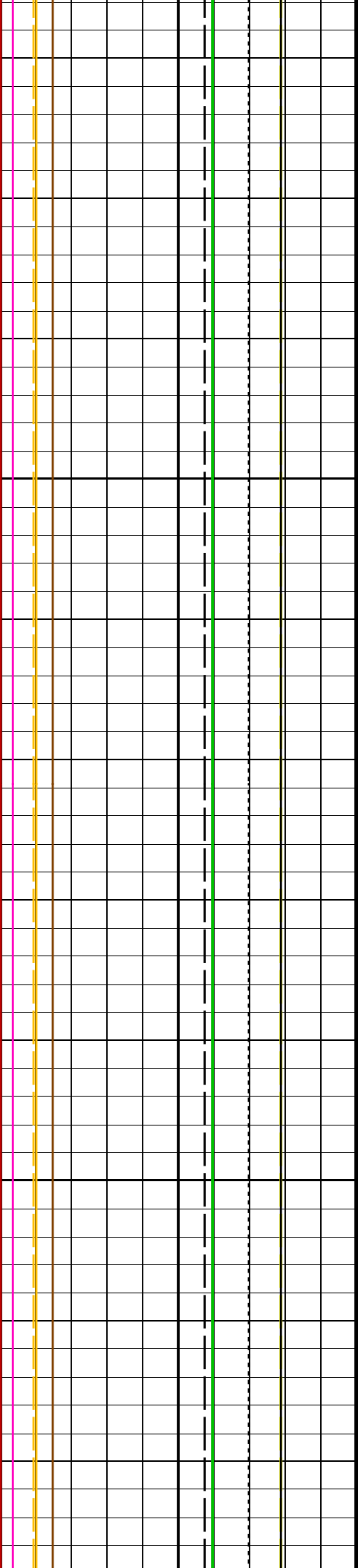
OP System Version: 19C0-187					
DIT-E	19C0-187	DTA-8259	19C0-187		
DSST-B	19C0-187	HLDS	19C0-187		
LDSC-B	19C0-187	EDTC-B	8317		

PIP SUMMARY

Time Mark Every 60 S		
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0 (----) 10		
Peak Coherence / RA – P & S Shear (CHRS)		
-1 (----) 9		
Peak Coherence / RA – P & S Comp (CHRP)		
0 (----) 10		
Peak Coherence / RA – Lower Dipole (CHR1)		
0 (----) 10		
Gamma Ray (GR_EDTC)		
0 (GAPI) 75		
Poisson's Ratio (PR)		
0 (----) 0.5		
Tension (TENS)		
10000 (LBF) 0		
HLDS Caliper (LCAL)		
0 (IN) 20		
Poisson's Ratio (PR)		
0 (----) 0.5		
Bit Size (BS)		
0 (IN) 20		

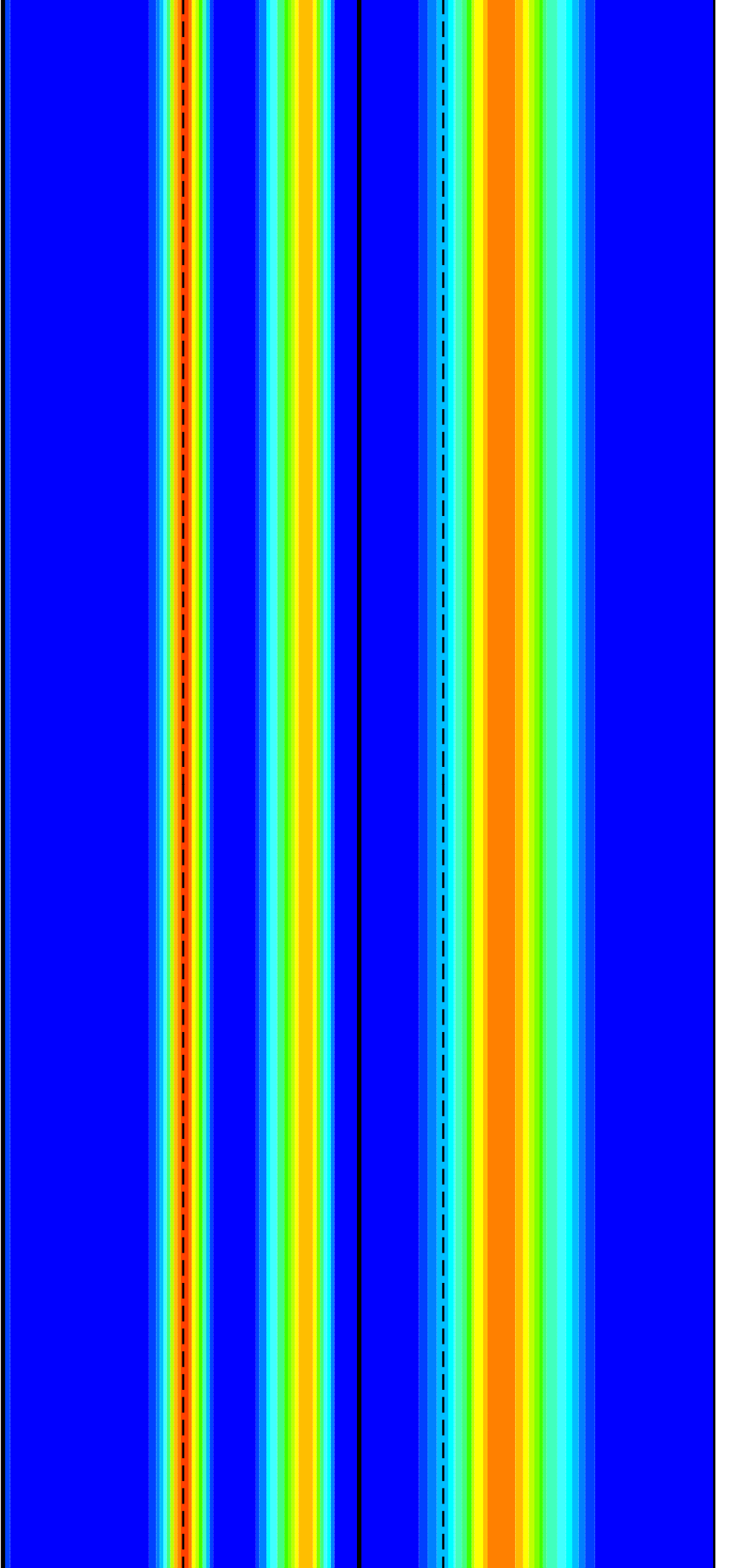
1st Pass, Sea Floor Depth Reference

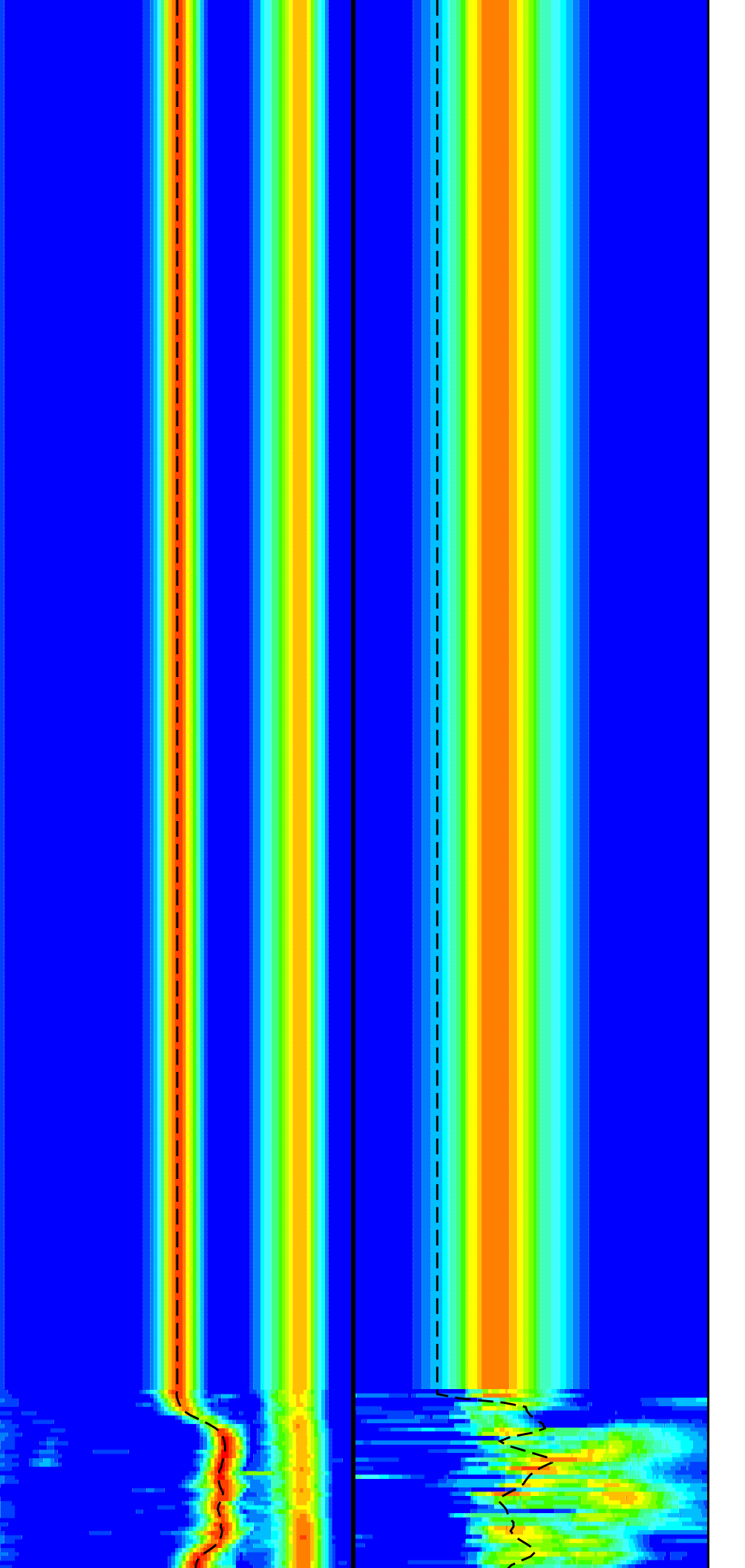
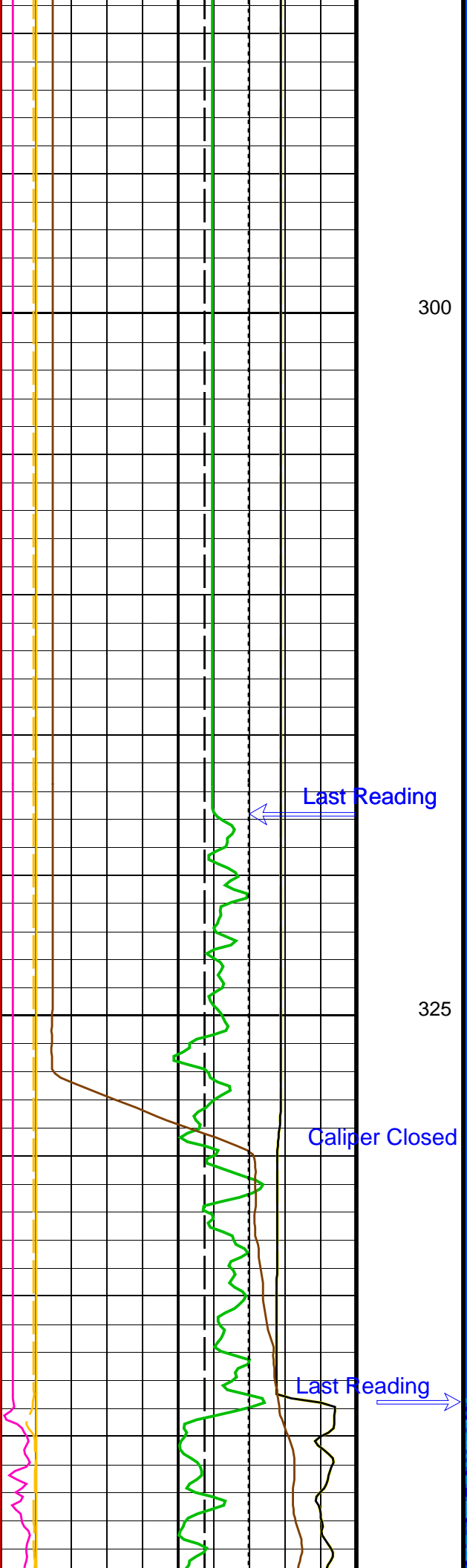


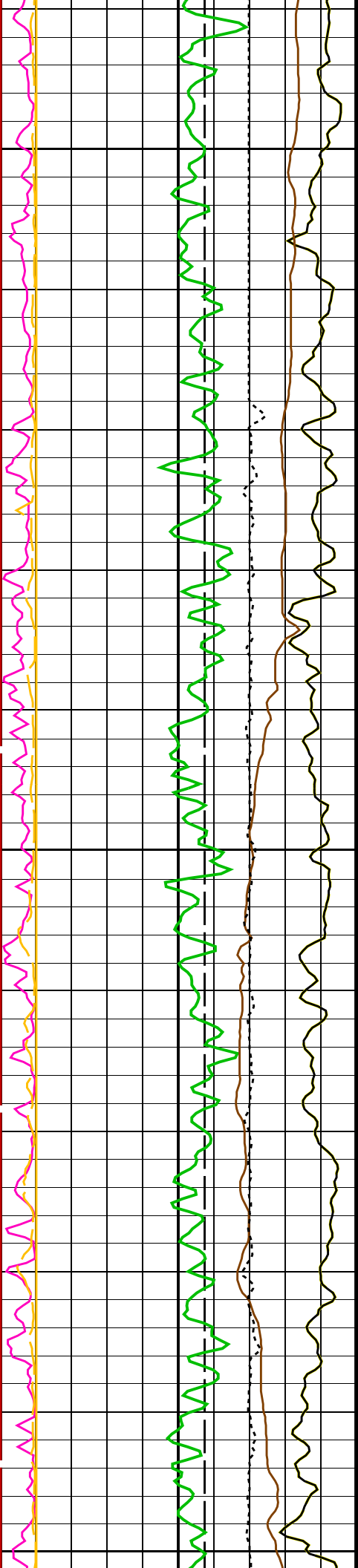


250

275



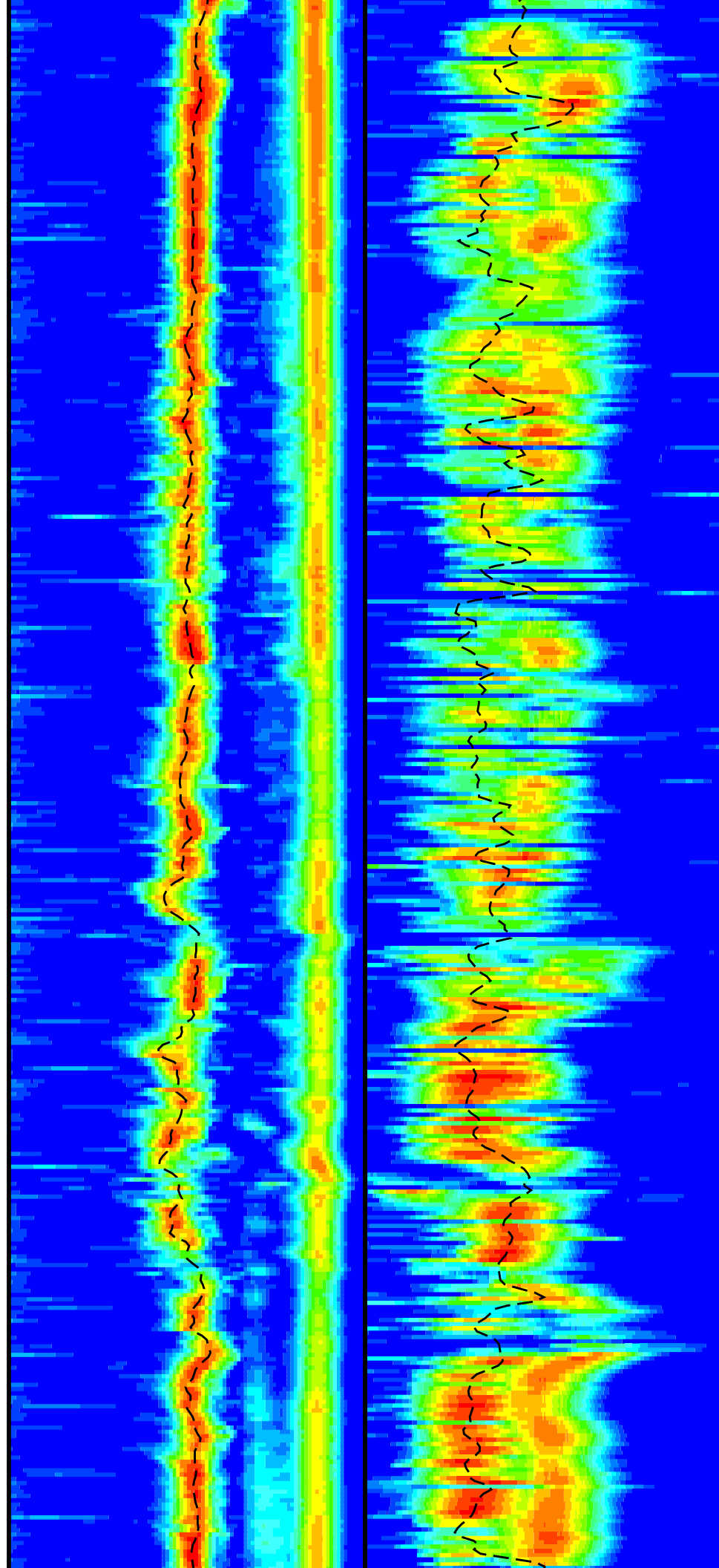


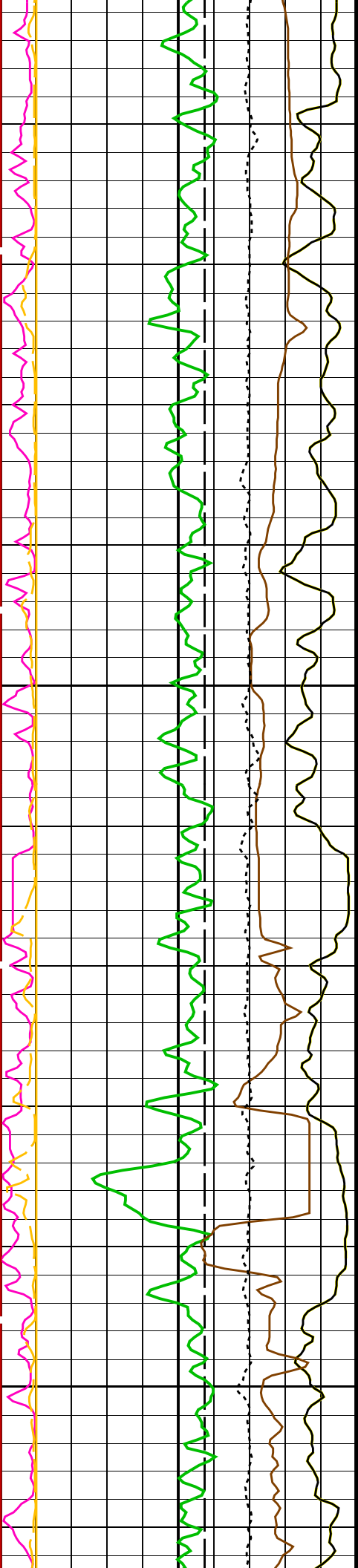


350

375

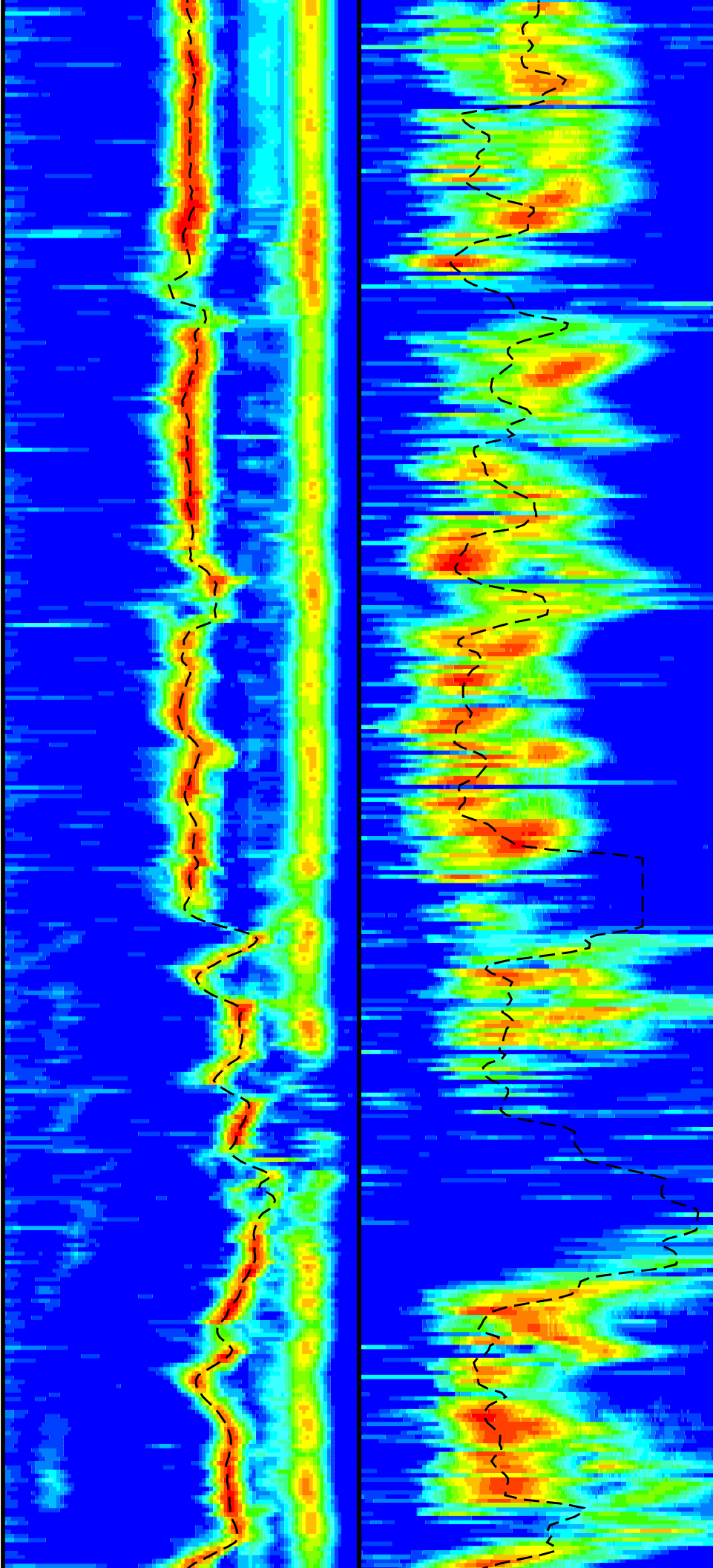
400

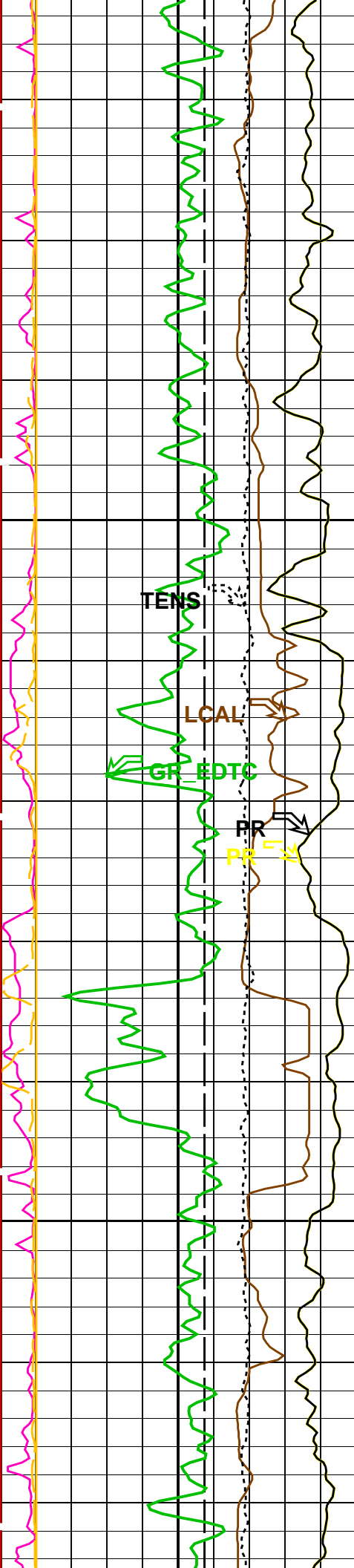




425

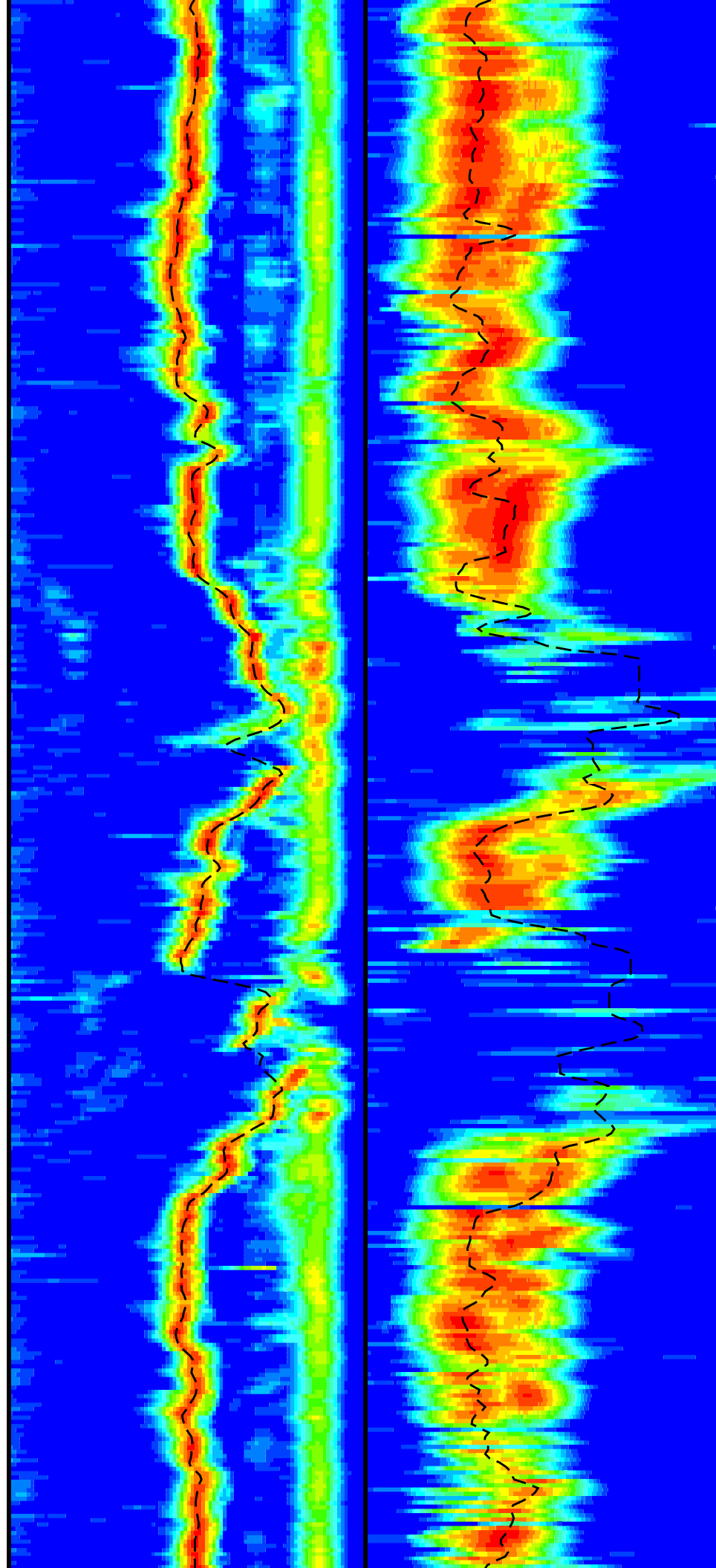
450





475

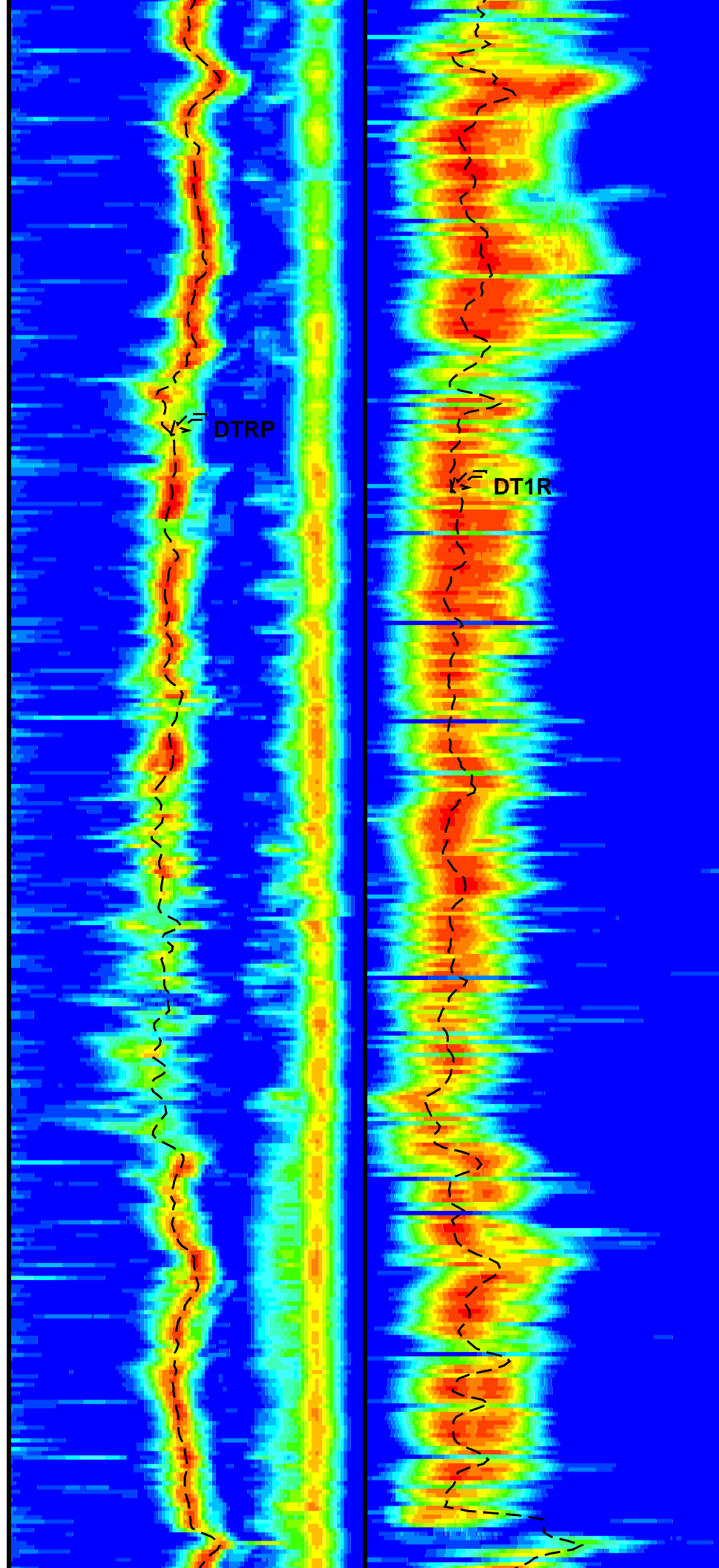
500

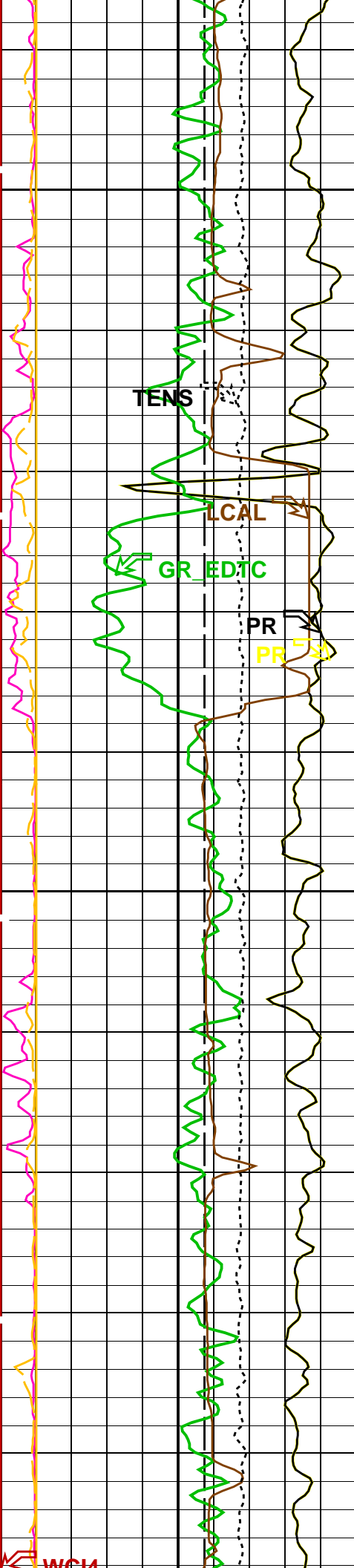




525

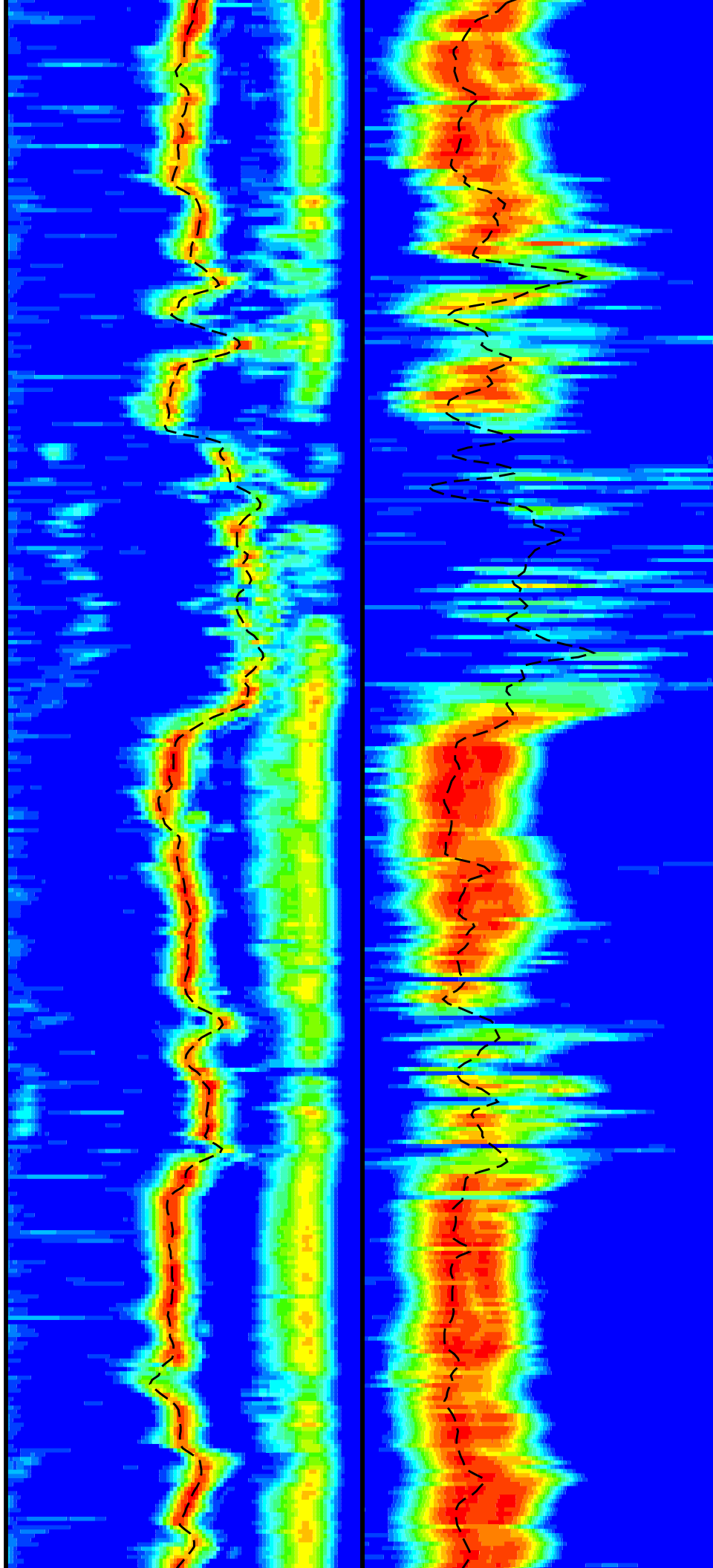
550

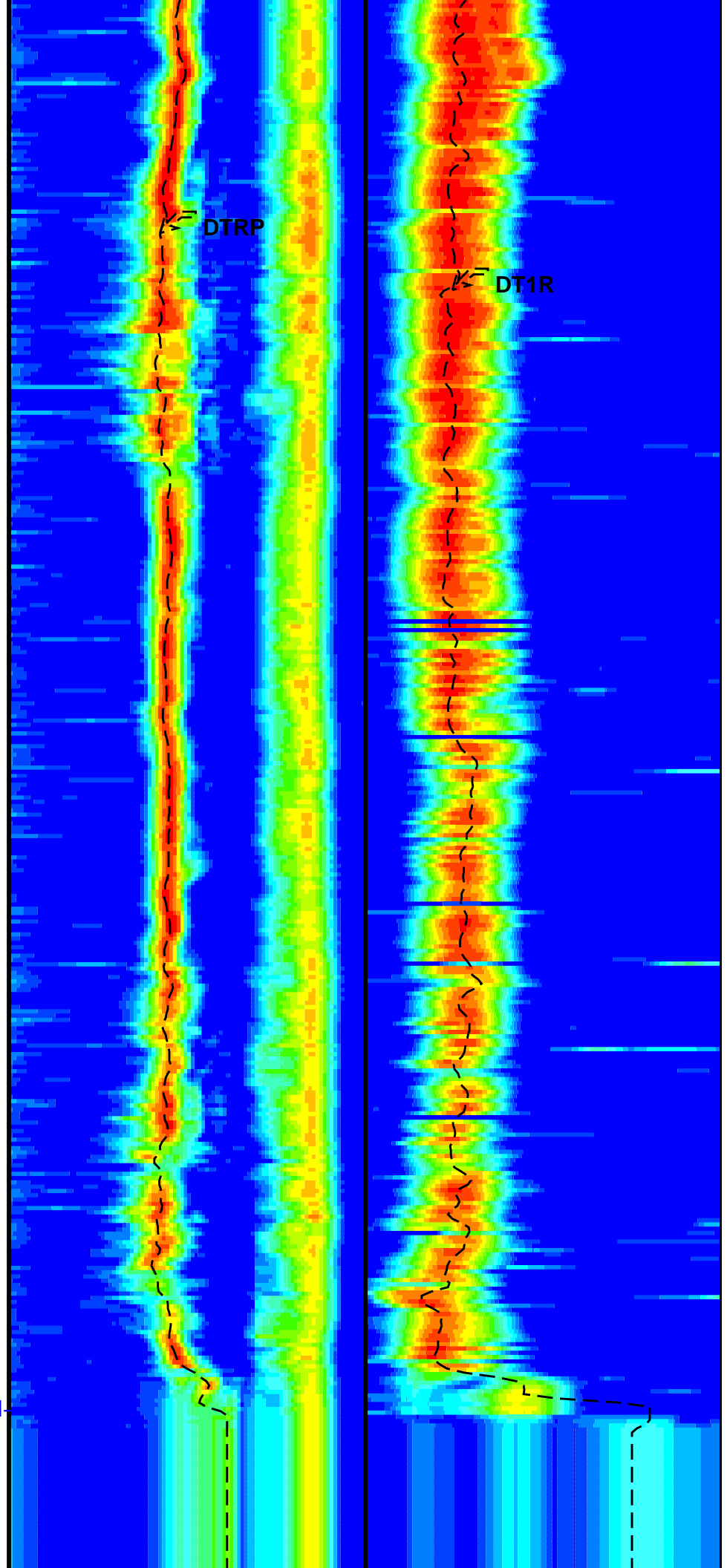
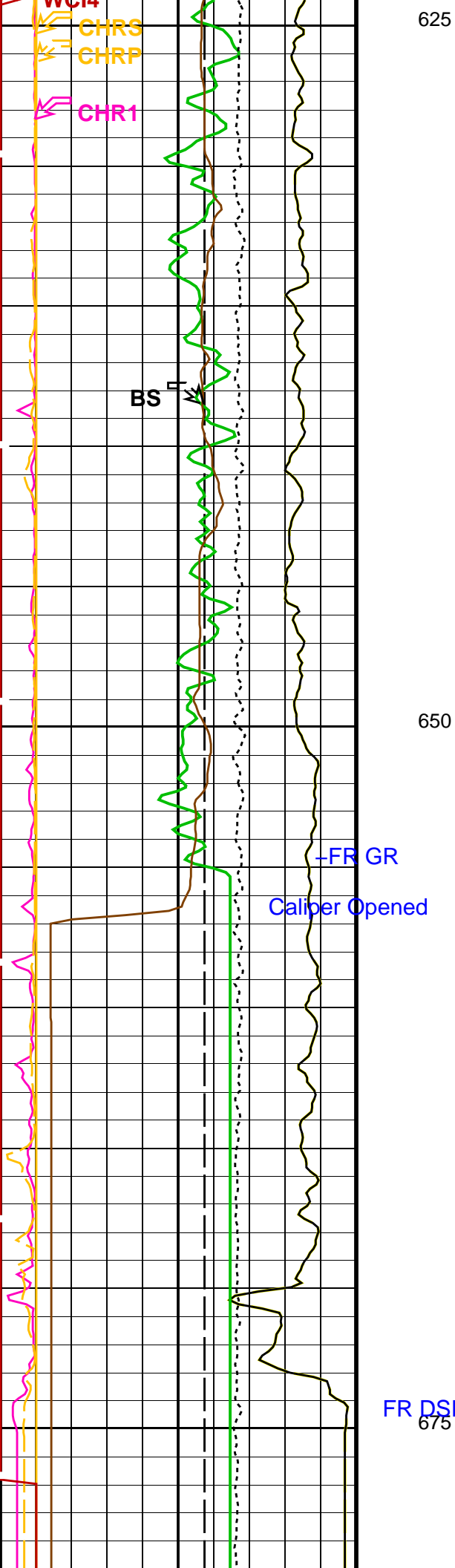


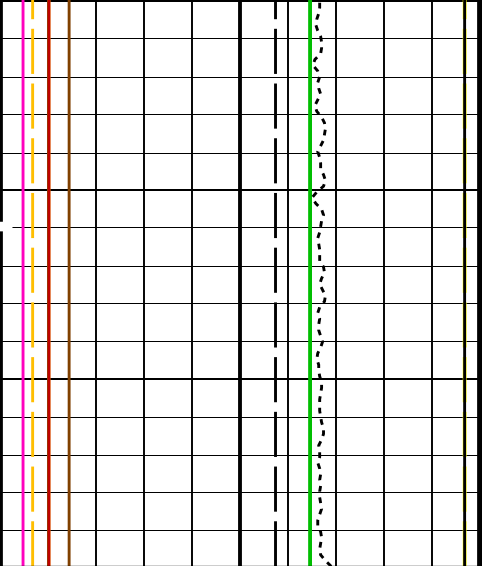


575

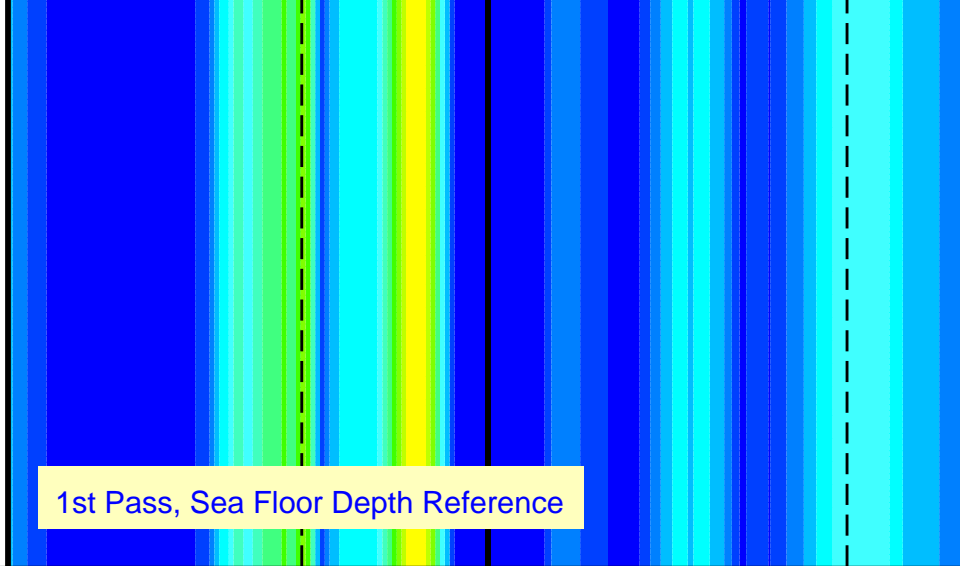
600







TD



1st Pass, Sea Floor Depth Reference

Bit Size (BS) (IN)		
0		20
Poisson's Ratio (PR) (-----)		
0		0.5
HLDS Caliper (LCAL) (IN)		
0		20
Tension (TENS) (LBF)		
10000		0
Poisson's Ratio (PR) (-----)		
0		0.5
Gamma Ray (GR_EDTC) (GAPI)		
0		75
Peak Coherence / RA - Lower Dipole (CHR1)		
0		10
Peak Coherence / RA - P & S Comp (CHRP)		
0		10
Peak Coherence / RA - P & S Shear (CHRS)		
-1		9
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0		10

Delta-T Comp / RA - P & S (DTRP) (US/F)		Delta-T Shear / RA - Lower Dipole (DT1R) (US/F)	
40	240	75	1200
Delta-T Shear / RA - P & S (DTRS) (US/F)		Min Amplitude Max Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F)	
40	240	75	1200
Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F)			
40	240		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BHS	DIT-E: Dual Induction - E Borehole Status	OPEN
BHS	DSST-B: Dipole Shear Imager - B Borehole Status	OPEN
CASF	Label Casing Function - Monopole P&S	50
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	118 US/F
COLL	Label Slowness Upper Limit - Monopole P&S Compressional	195 US/F

C00L	Label Slowness Upper Limit - Monopole P&S Compressional	195	US/F
DDE1	Digitizing Delay 1	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source - Dipole Shear	USE	
DSHL	Label Slowness Lower Limit - Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCS Channel	PS_COMP	
DTF	Delta-T Fluid	195	US/F
DTSS	Shear Delta-T Source for DTSM Channel	LOWER_DIPOLE	
DWC1	Digitizer Word Count 1	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP	
LFC	Label Formation Character - Monopole P&S	COMP_FIRST	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI1	Number Waveform Items 1	8	
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
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	LFD_EVEN	
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	
SAS1	STC Sonic Array Status - Lower Dipole	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO1	STC Search Band Offset - Lower Dipole	3000	US
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW1	STC Search Bandwidth - Lower Dipole	8000	US
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE	
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM1	STC Filter - Lower Dipole	B.3-1.5K	
SFM4	STC Filter - Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	240	US/F
SLL1	STC Slowness Lower Limit - Lower Dipole	75	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST1	STC Slowness Step - Lower Dipole	4	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1	
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	1200	US/F
SUL1	STC Slowness Upper Limit - Lower Dipole	1200	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	240	US/F
SWD1	STC Slowness Width - Lower Dipole	40	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0	US
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL1	STC Time Lower Limit - Lower Dipole	600	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TST1	STC Time Step - Lower Dipole	200	US
TST4	STC Time Step - Monopole P&S	50	US
TUL1	STC Time Upper Limit - Lower Dipole	20440	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD1	STC Time Width - Lower Dipole	2000	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
EDTC-B 8317: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-729.7	M
PP	Playback Processing	OFF	

OP System Version: 19C0–187

DIT–E	19C0–187	DTA–8259	19C0–187
DSST–B	19C0–187	HLDS	19C0–187
LDSC–B	19C0–187	EDTC–B	8317

Input DLIS Files




DEFAULT	PI_DSI_LDL_017PUP	FN:27	PRODUCER	27–Jul–2013 14:57	1424.9 M	1003.1 M
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Output DLIS Files

DEFAULT	PI_DSI_LDL_020PUP	FN:33	PRODUCER	27–Jul–2013 15:09
BACKUP	PI_DSI_LDL_020PUP	FN:34	PRODUCER	27–Jul–2013 15:09

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho–Density Sonde Wellsite Calibration – Background Measurement							
Master: 23–May–2013 18:26 Before: 5–Jun–2013 5:19 After: 21–Jun–2013 15:43							
SS Cs Resolution Bkg	9.000	7.935	8.049	7.894	–0.1558	1.800	%
LS Cs Resolution Bkg	9.000	8.162	8.063	8.099	0.03602	1.800	%
LSW1 Background	100.0	71.72	70.78	70.77	–0.009674	0.03000	CPS
LSW2 Background	100.0	65.95	64.89	65.91	1.019	0.03000	CPS
LSW3 Background	200.0	146.1	143.2	142.4	–0.8057	0.03000	CPS
LSW4 Background	250.0	176.3	175.6	173.4	–2.196	0.03000	CPS
LSW5 Background	600.0	404.2	405.6	401.3	–4.256	0.03000	CPS
SSW1 Background	100.0	80.22	79.61	80.05	0.4435	0.03000	CPS
SSW2 Background	200.0	141.1	142.8	140.8	–2.062	0.03000	CPS
SSW3 Background	500.0	380.9	379.7	382.0	2.379	0.03000	CPS
SSW4 Background	270.0	201.0	199.2	199.1	–0.1189	0.03000	CPS
SSW5 Background	200.0	143.8	144.9	143.3	–1.597	0.03000	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement							
Master: 23–May–2013 19:07							
LSW1 Aluminum	600.0	513.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	737.9	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	887.0	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	448.1	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	411.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2391	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6513	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9048	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3653	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	442.2	N/A	N/A	N/A	N/A	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement							
Master: 23–May–2013 18:57							
LSW1 Iron	400.0	354.2	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	602.9	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	794.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	408.1	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	376.8	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1748	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5423	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8249	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3342	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	391.9	N/A	N/A	N/A	N/A	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration							
Before: 5–Jun–2013 5:19							
HLDS Caliper Small Ring	12.00	N/A	16.02	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.90	N/A	N/A	N/A	IN
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 27–Jul–2013 10:38							
EDTC Z–Axis Acceleration	9.810	N/A	9.801	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: Calibration out of date 5–Jun–2013 5:18							
Gamma Ray (Lin – Bkg)	156.4	N/A	156.4	N/A	N/A	14.22	GAPI

Enhanced DTS Cartridge Wellsite Calibration														
Detector Calibration														
Phase	Gamma Ray Background		GAPI	Value	Phase	Gamma Ray (Jig – Bkg)		GAPI	Value	Phase	Gamma Ray (Calibrated)		GAPI	Value
Before				6.203	Before				156.4	Before				164.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		142.2 (Minimum)	156.4 (Nominal)	170.6 (Maximum)			149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)		
Before: Calibration out of date 5-Jun-2013 5:18														

Company: Lamont Doherty Earth Observatory



Well: Expedition 341, Site U1421A

Field: Southern Alaska Margin Tectonics

Rig: JOIDES Resolution

Ocean: Pacific

Dipole Shear Sonic Imager (DSI)
Upper / Lower Dipole Shear
Monopole Compressional / GR / Caliper