

Company: **Lamont Doherty Earth Observatory**

Well: **Expedition 346, Site U1427A**

Field: **Asian Monsoon**

Rig: **JOIDES Resolution** Country: **USA**

DSI Sonic
P & S

LOCATION

Latitude: N 35° 1.9996'
Longitude: E 134° 47.999'

Elev.: K.B. -337.10 m
G.L. 0.00 m
D.F. -337.10 m

Permanent Datum: Sea Floor Elev.: 0.00 m
Log Measured From: Drill Floor -337.10 m above Perm. Datum
Drilling Measured From: Drill Floor

Ocean:
Pacific

Max. Well Deviation
0 deg

Longitude
E 134.8°

Latitude
N 35.033°

Rig: JOIDES Resolution

Field: Asian Monsoon

Location: Latitude: N 35° 1.9996'

Well: Expedition 346, Site U1427A

Company: Lamont Doherty Earth Observatory

MUD

Density	Viscosity	1.26 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	@ 15	@ 15	@	@
Maximum Recorded Temperatures		15 degC			
Circulation Stopped	Time	8-Sep-2013	5:00		
Logger On Bottom	Time	8-Sep-2013	14:35		
Unit Number	Location	625003	Houston		
Recorded By		C. Furman			
Witnessed By		J. Lofi			

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					

Run 1

Run 2

R

[illegible]

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.

OTHER SERVICES1



OS1:	HLDS
OS2:	HNGS
OS3:	MSS
OS4:	FMS
OS5:	HRLA

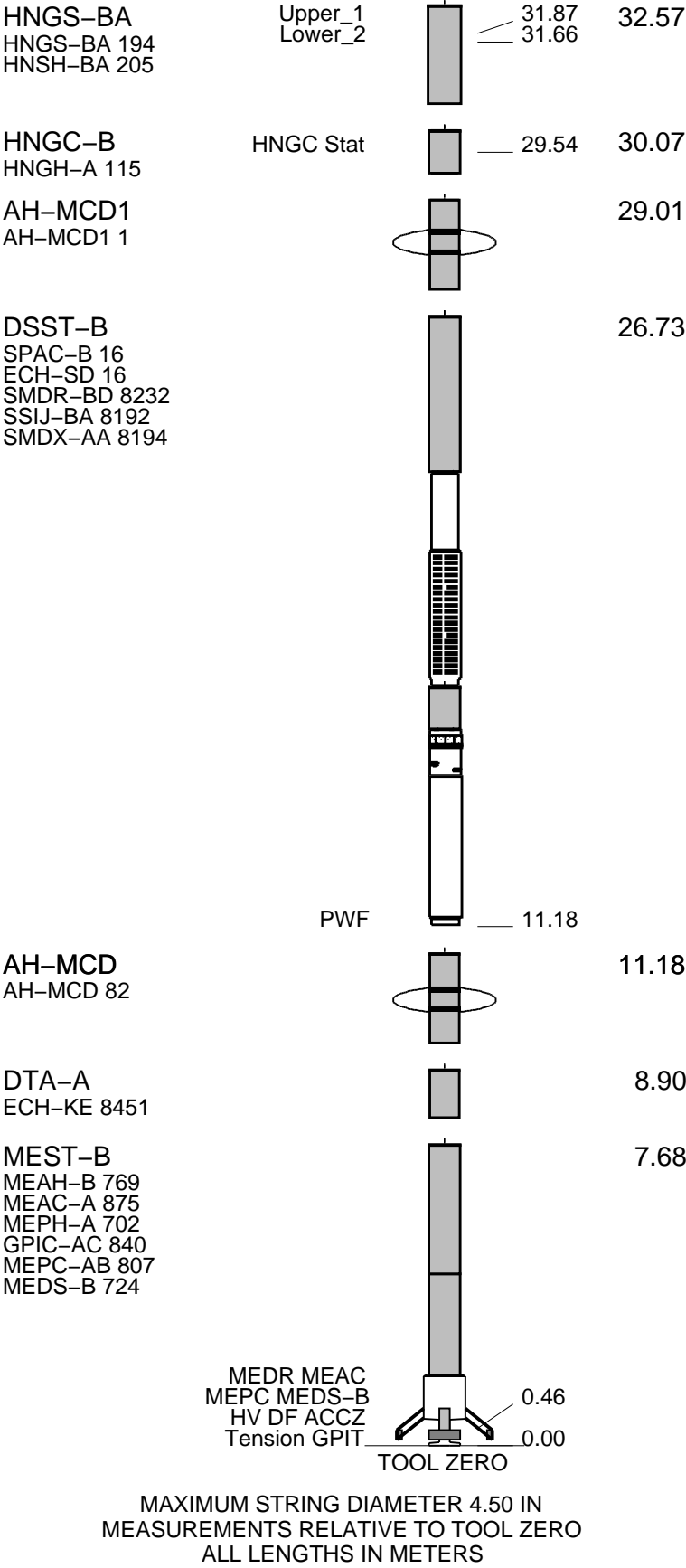
REMARKS: RUN NUMBER 1

Hole drilled and cored using APC/XCB coring system.
Modified MCD devices run above and below HRLA for centralization.
HLDS and MSS eccentralized by caliper and bowspring with knuckled to decouple from HRLA.
LFV Actuator (Go–Devil) run attached to bottom of MSS for LFV locking open / closed.
Logs recorded from drill floor (337.1m above permanent datum) then shifted to zero at sea floor.
Hole drilled with sea water and then displaced with weighted water–based mud having a density of 1.259 g/cc (10.5ppg).
Barite corrections applied to nuclear logs.
DSI run with Upper Dipole, P&S, and Stoneley in standard frequency for all passes.
DSI Lower Dipole run in LFD mode for downlog; standard frequency for both up passes.
EMEX switched off at 93.8m and FMS caliper closed at 91.8m to facilitate pipe entry.

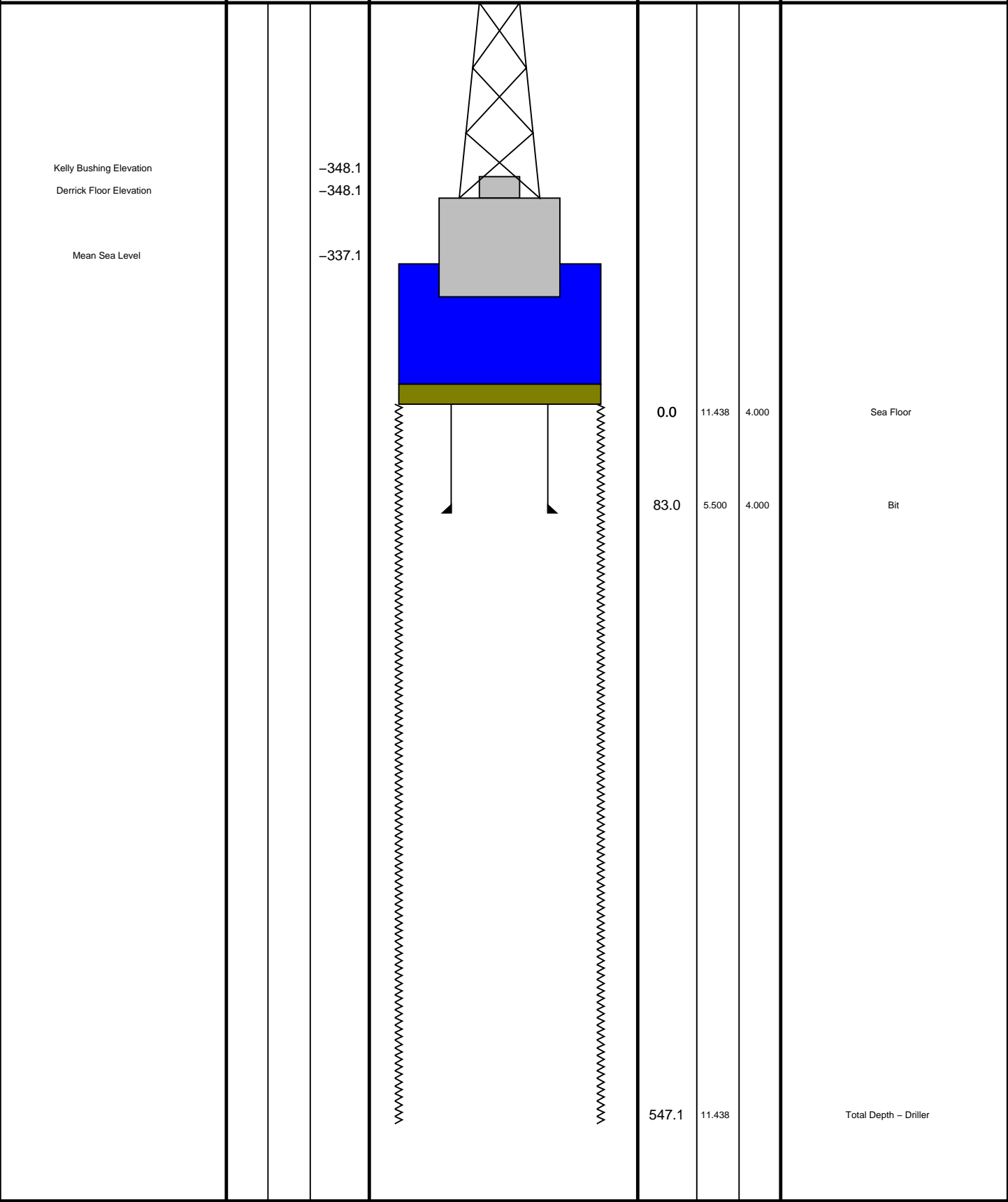
RUN 1 SERVICE ORDER #: PROGRAM VERSION: 19C0-187 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

RUN 1		RUN 2	
SURFACE EQUIPMENT			
GSR-U 616008 WITM (EDTS)-A			
DOWNHOLE EQUIPMENT			
LEH-MT 101	MDSB_EDTC		34.55
LEH-MT 101 101	Mud Tempe		
	CTEM		33.49
EDTC-B	Gamma Ray		32.92
EDTH-B 8303	EFTB DIAG		34.55
EDTC-B 8317	TelStatus		
EDTG-A/B 8305	EDTCB Ele		32.57



Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	CD	ID		MD	CD	





Downlog
1:200 Scale

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 346, Site U1427A

Input DLIS Files						
DEFAULT	Flip_FMS_DSI_NGS_028LUP	PRODUCER	09-Sep-2013 12:27	886.4 M	290.3 M	
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_037PUP	FN:45	PRODUCER	09-Sep-2013 13:33	547.0 M	-22.3 M
CLIENT	FMS_DSI_NGS_037PUC	FN:46	CUSTOMER	09-Sep-2013 13:33	547.0 M	-22.9 M

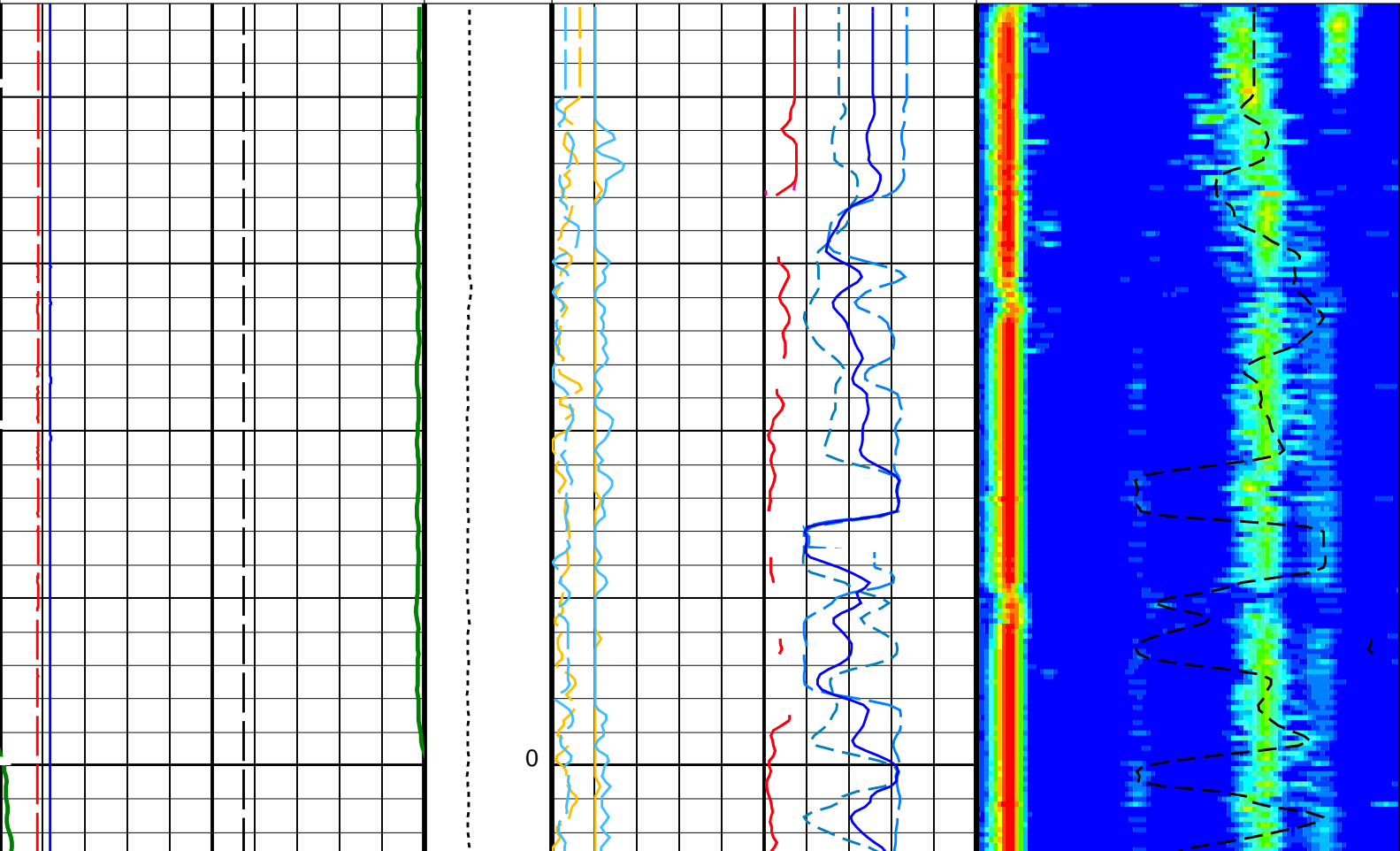
OP System Version: 19C0-187

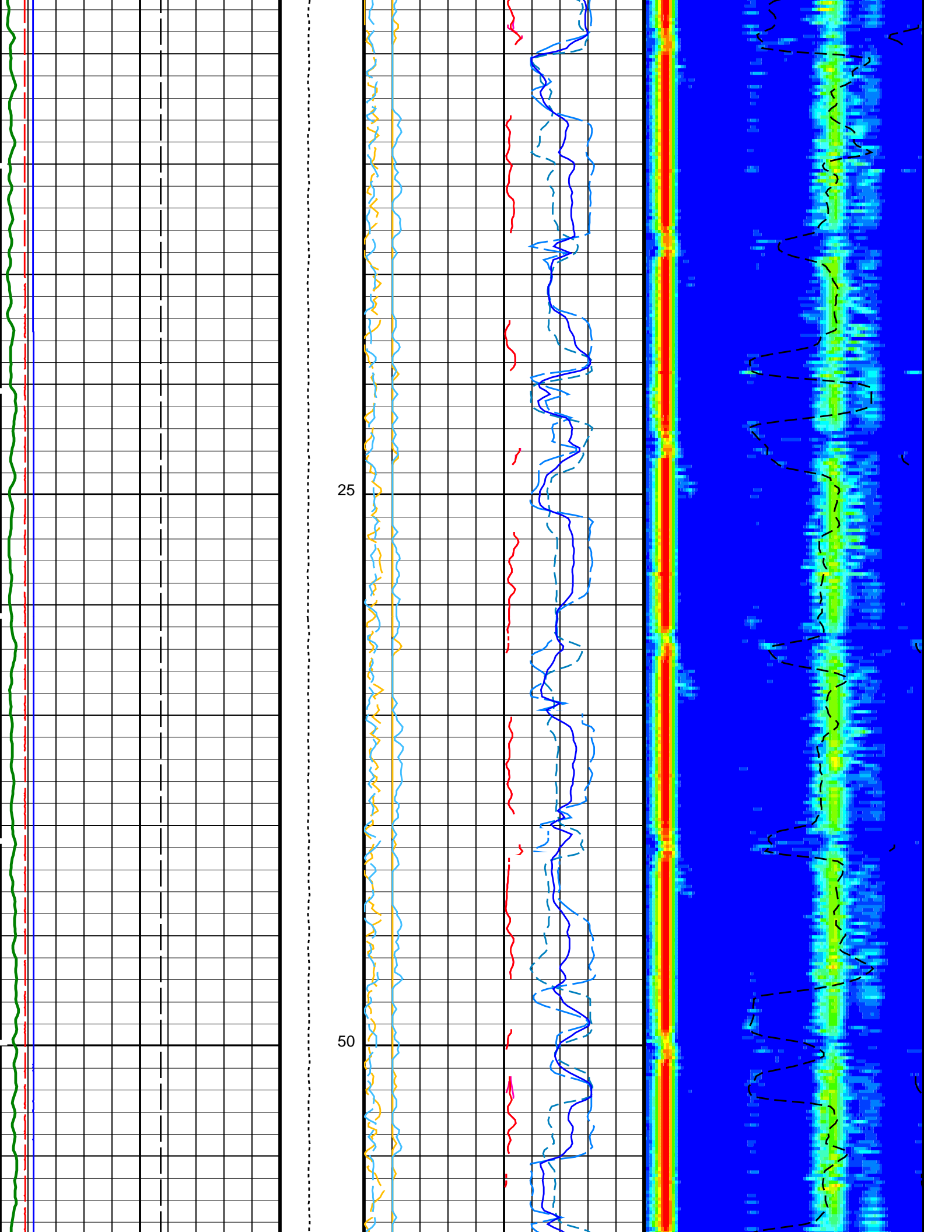
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DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

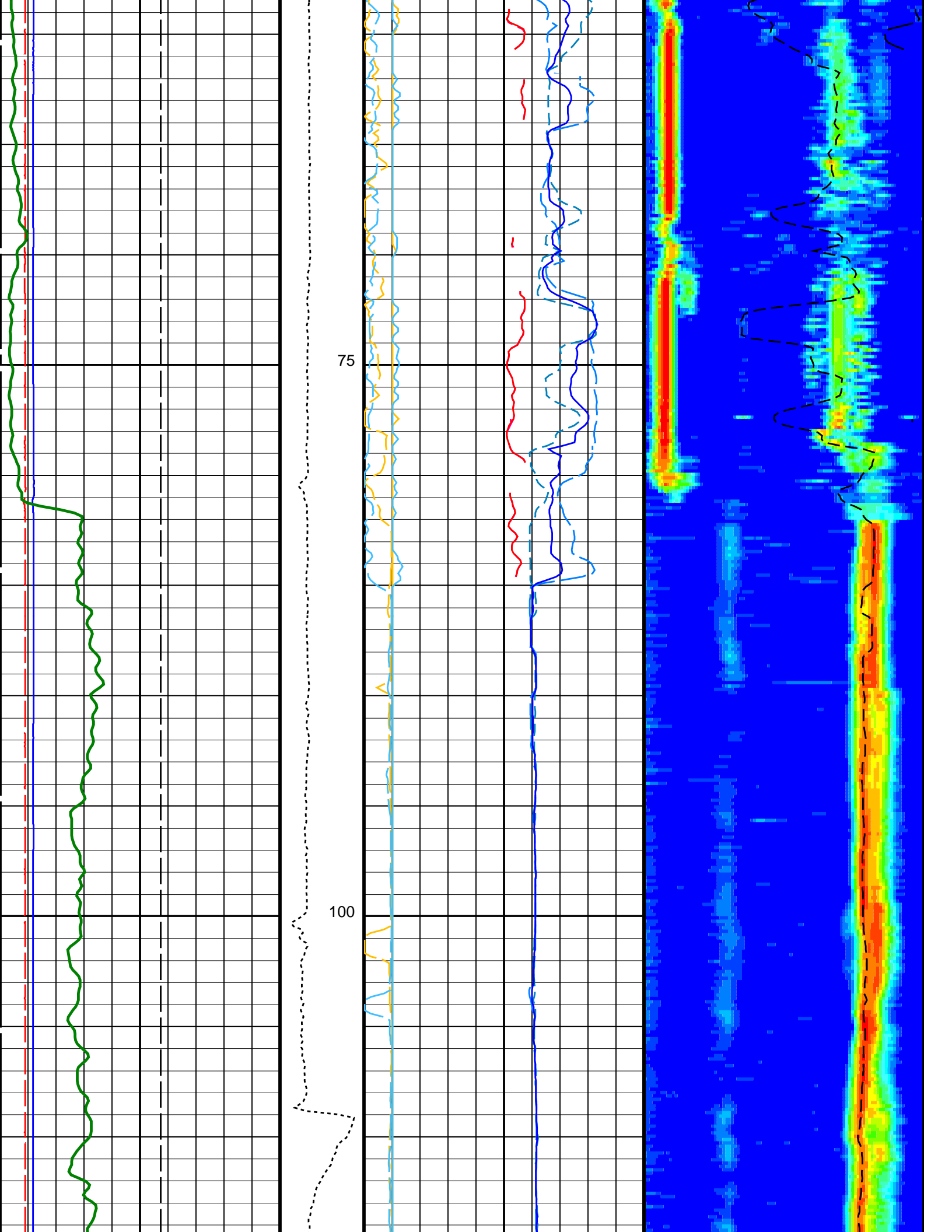
PIP SUMMARY

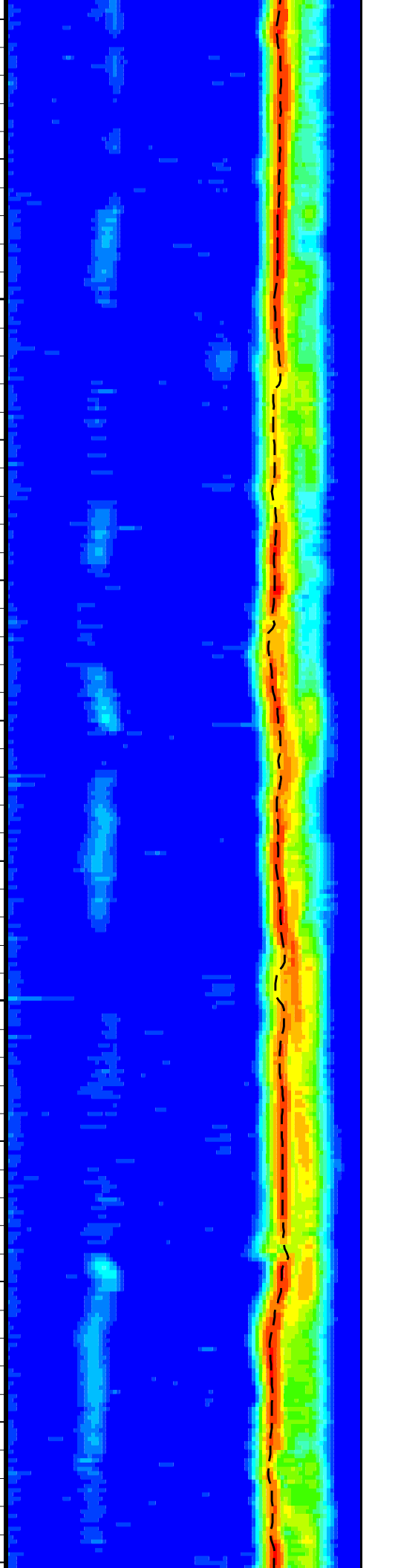
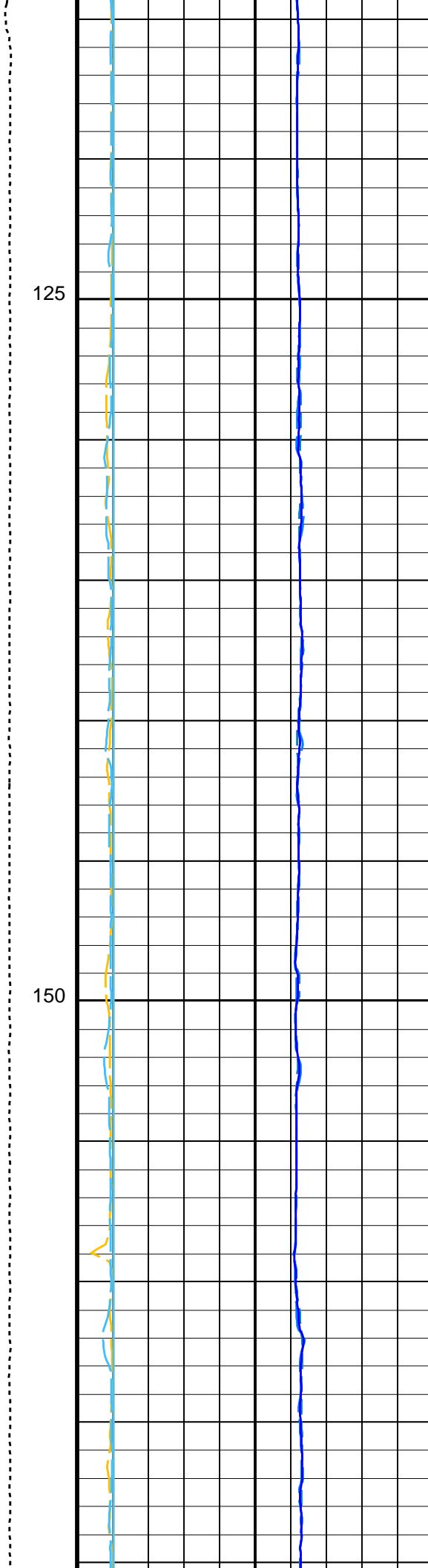
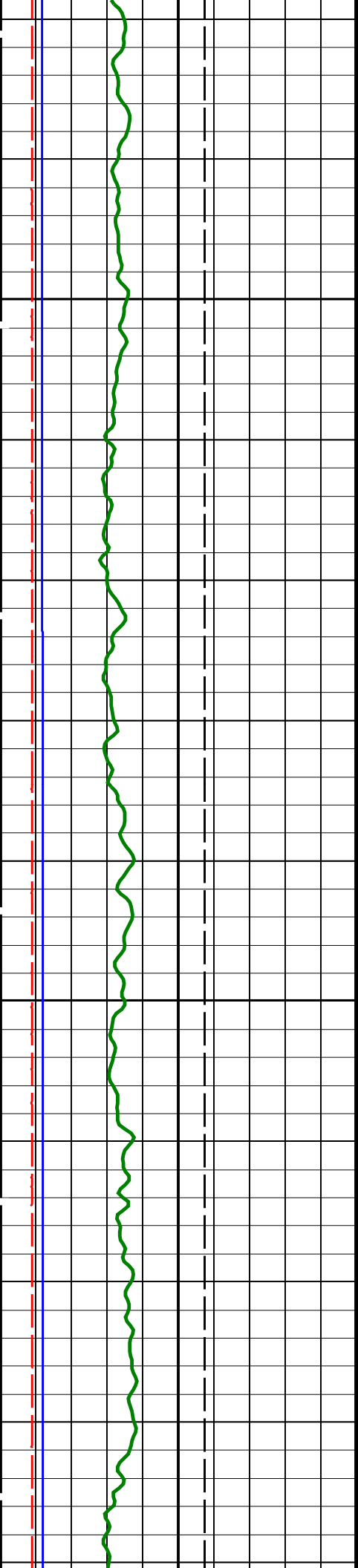
Time Mark Every 60 S

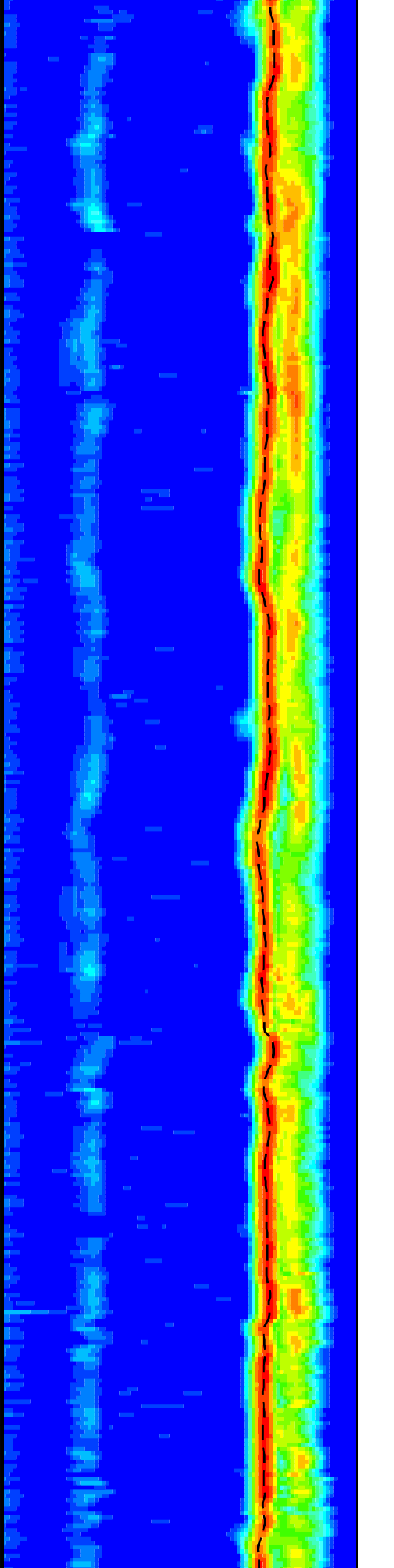
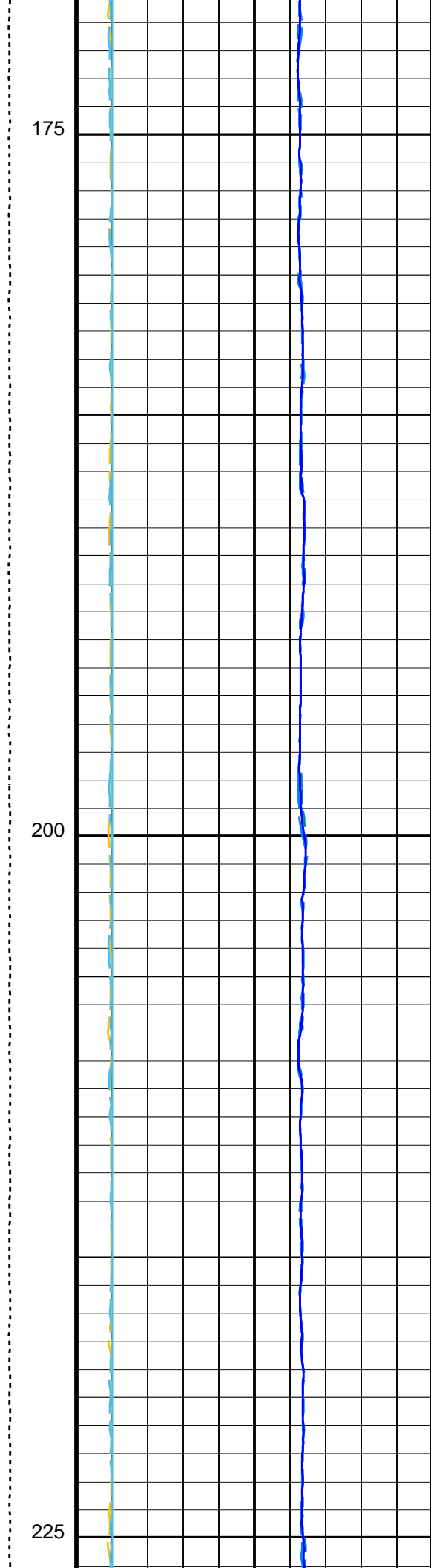
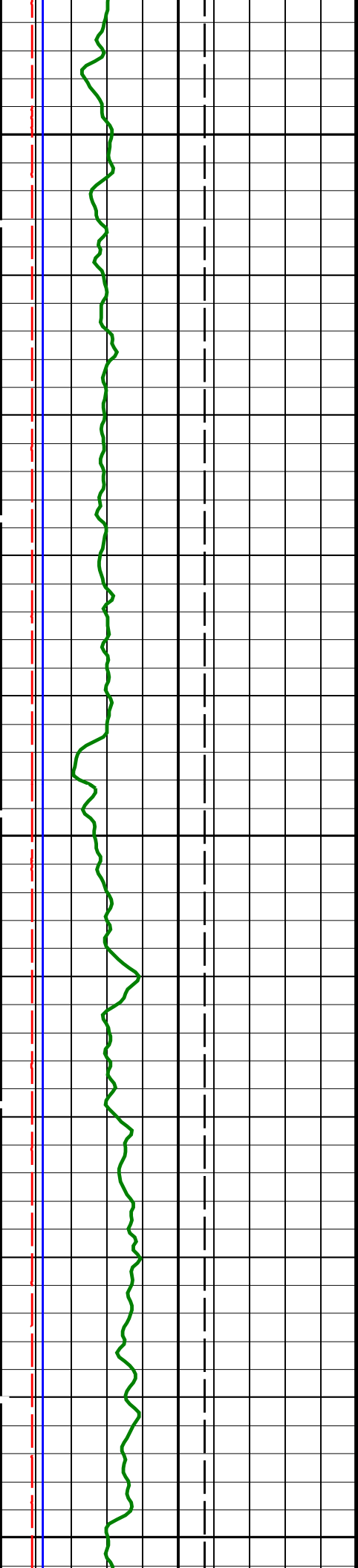
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		<div>Delta-T Shear / TA – P & S (DTTS)</div> <div>440 (US/F) 40</div>	
		<div>Delta-T Shear / RA – P & S (DTRS)</div> <div>440 (US/F) 40</div>	
		<div>Delta-T Comp – P & S (DT4P)</div> <div>440 (US/F) 40</div>	
		<div>Delta-T Comp / TA – P & S (DTTP)</div> <div>440 (US/F) 40</div>	
		<div>Delta-T Comp / RA – P & S (DTRP)</div> <div>440 (US/F) 40</div>	
<div>HNGS Spectroscopy Gamma Ray (HSGR)</div> <div>0 (GAPI) 100</div>		<div>Peak Coherence / TA – P & S Shear (CHTS)</div> <div>–1 (----) 9</div>	
<div>Caliper 2 (C2)</div> <div>0 (IN) 20</div>		<div>Peak Coherence / RA – P & S Shear (CHRS)</div> <div>–1 (----) 9</div>	<div>Min Amplitude Max</div> <div>Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240</div>
<div>Caliper 1 (C1)</div> <div>0 (IN) 20</div>		<div>Peak Coherence / TA – P & S Comp (CHTP)</div> <div>0 (----) 10</div>	<div>Delta-T Shear / RA – P & S (DTRS)</div> <div>40 (US/F) 240</div>
<div>Bit Size (BS)</div> <div>0 (IN) 20</div>	<div>Tension (TENS) (LBF)</div> <div>0 5000</div>	<div>Peak Coherence / RA – P & S Comp (CHRP)</div> <div>0 (----) 10</div>	<div>Delta-T Comp / RA – P & S (DTRP)</div> <div>40 (US/F) 240</div>

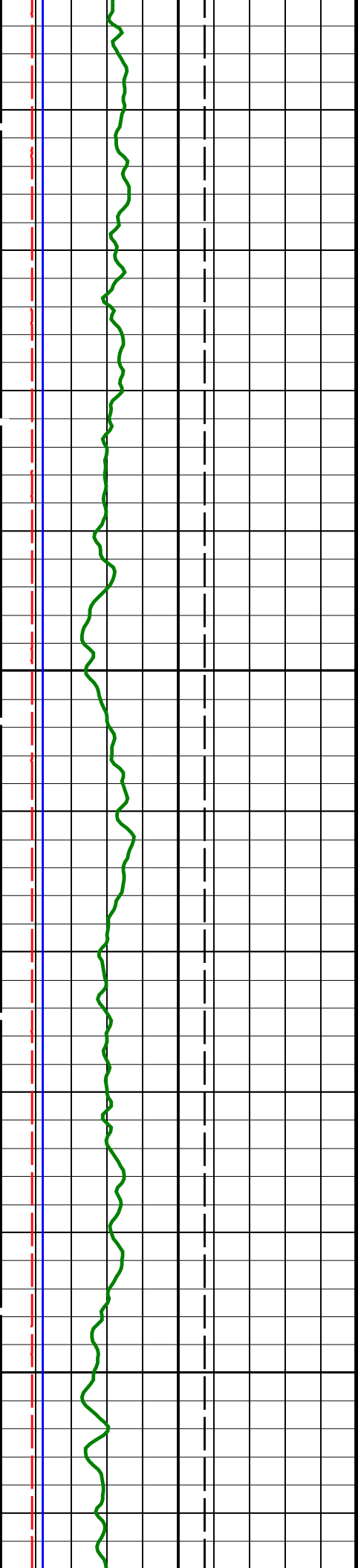






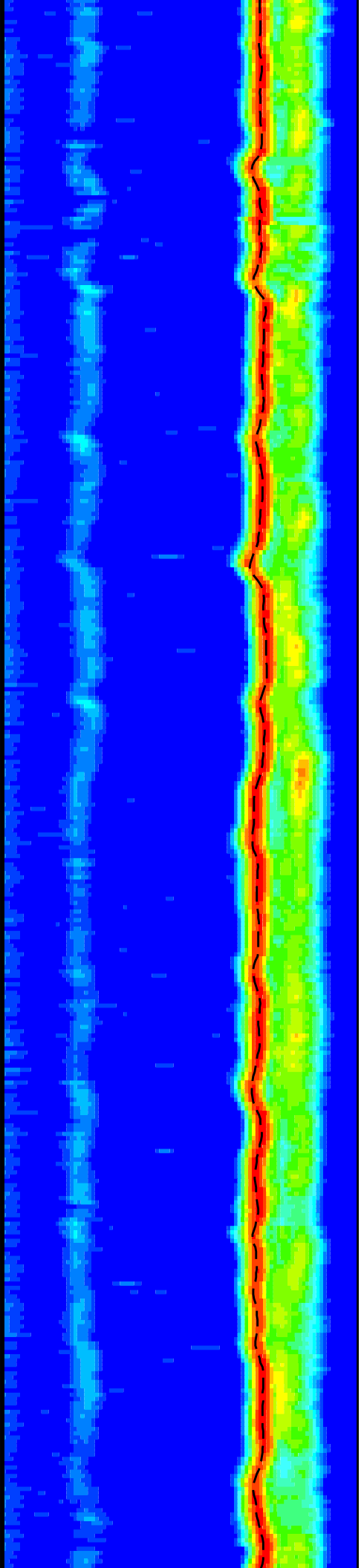
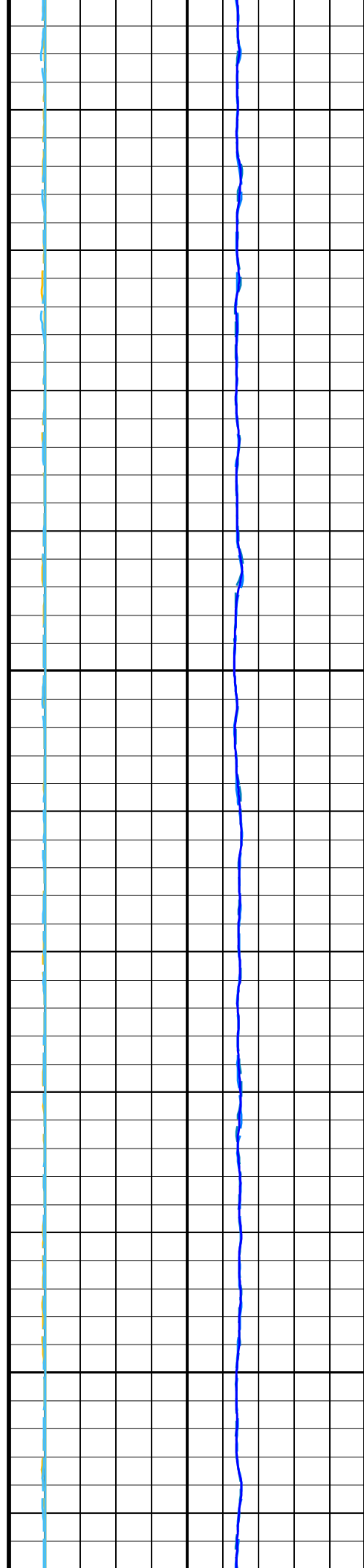


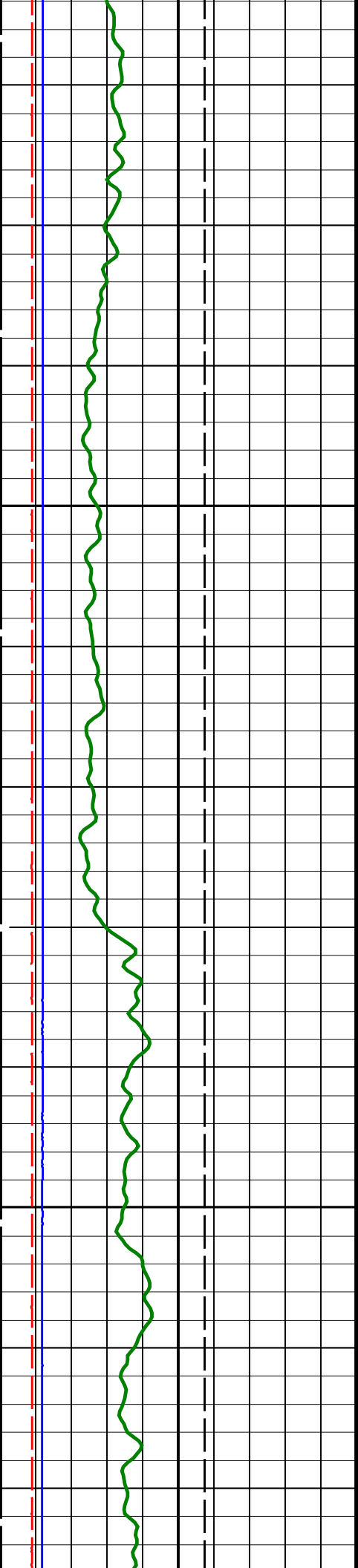




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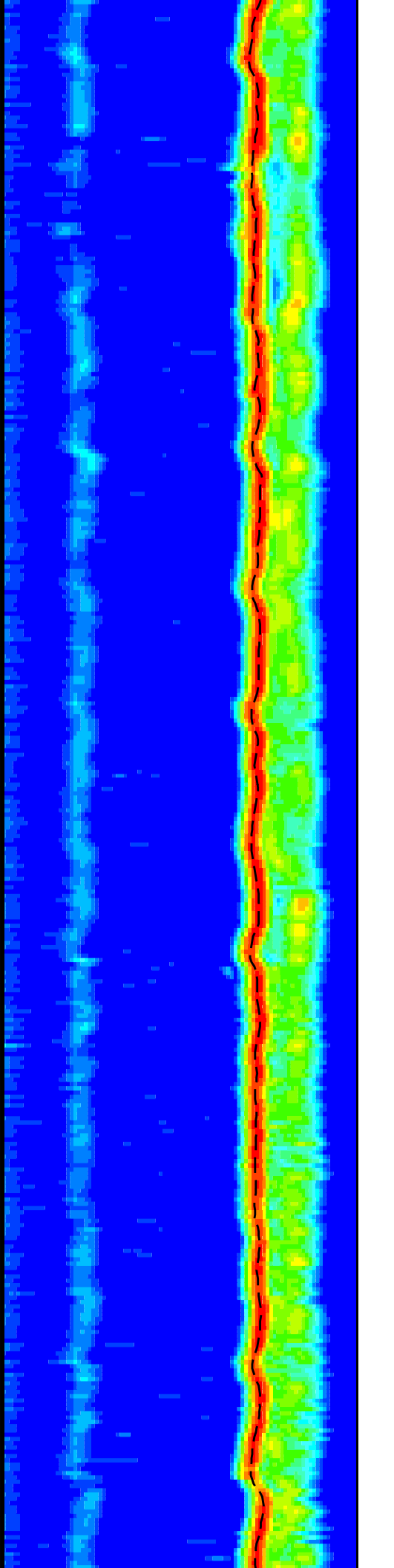
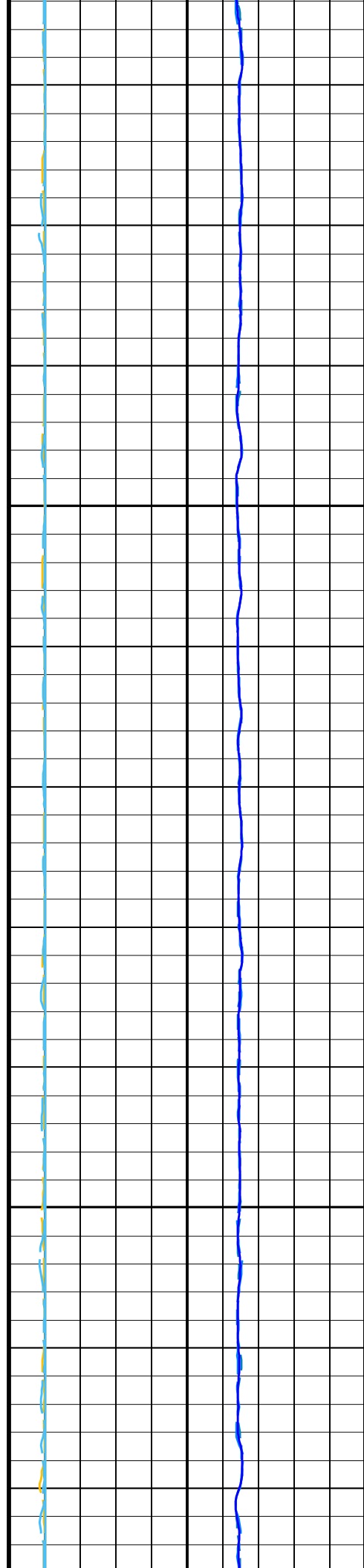
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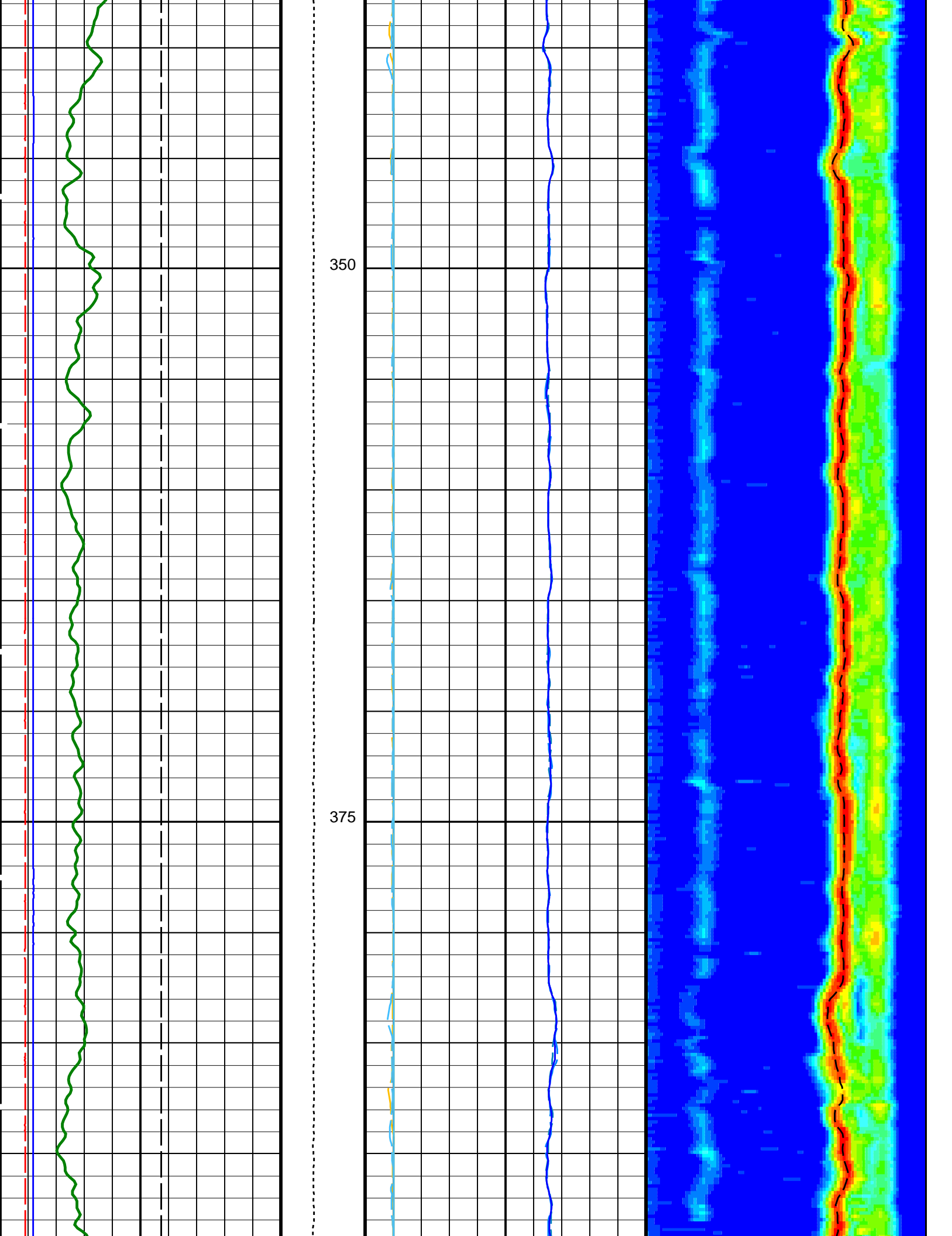


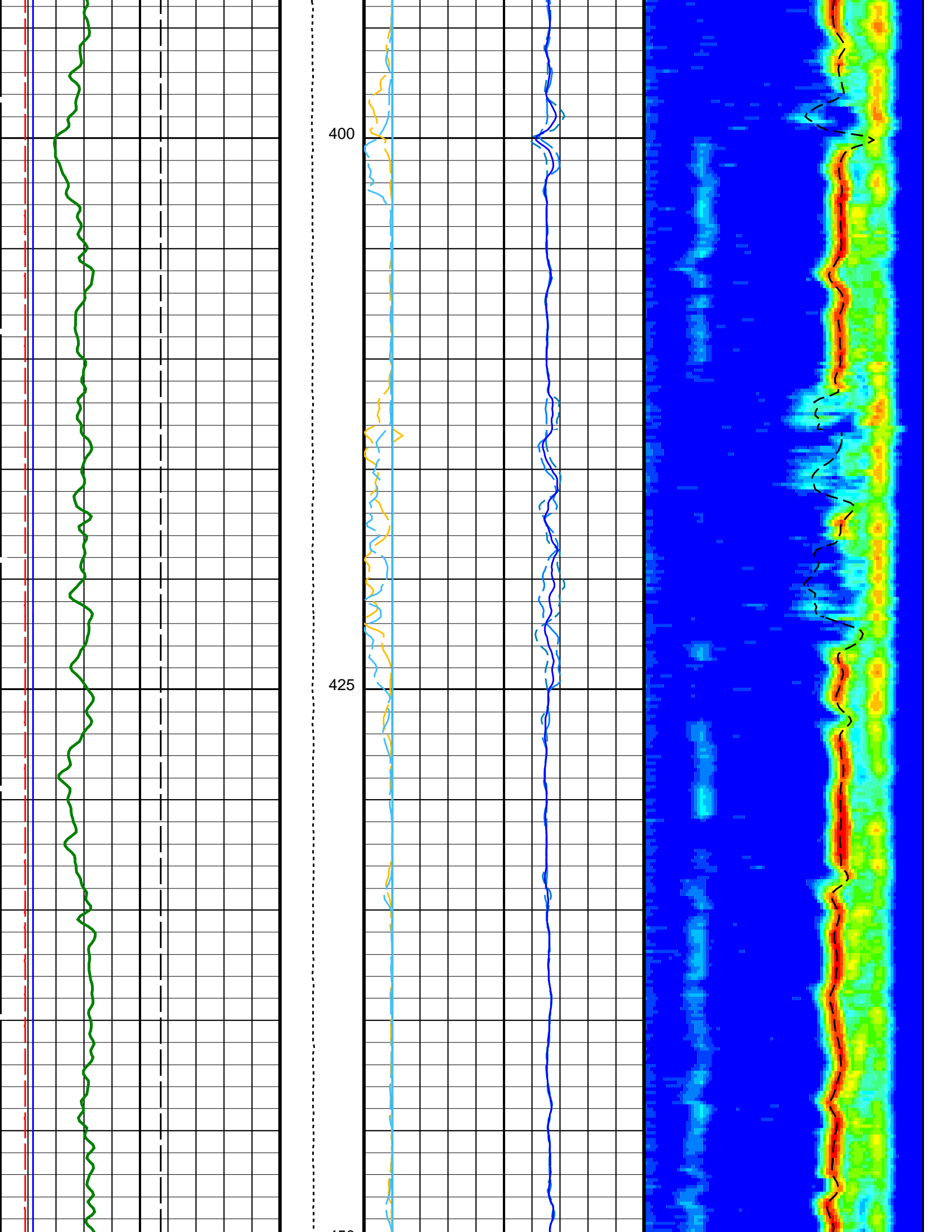


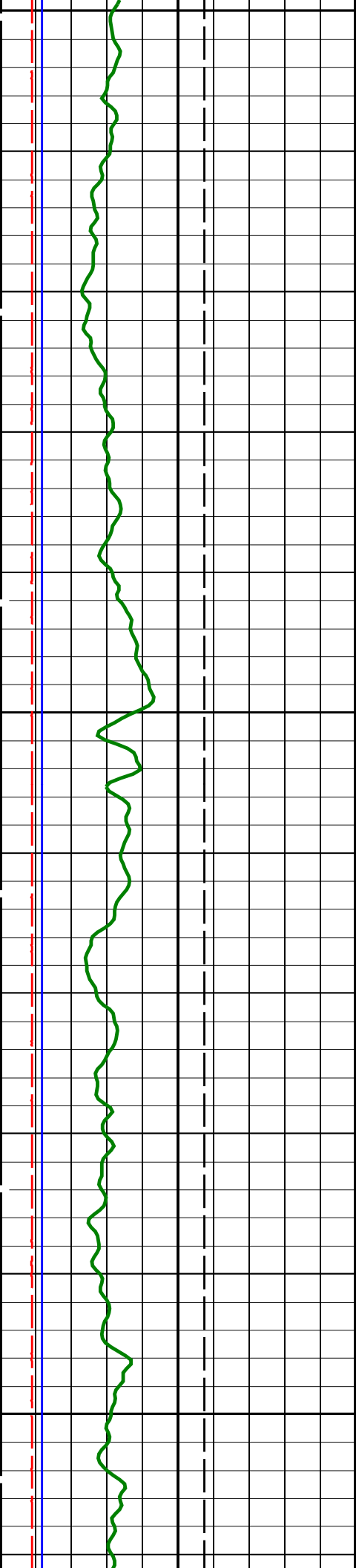
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325





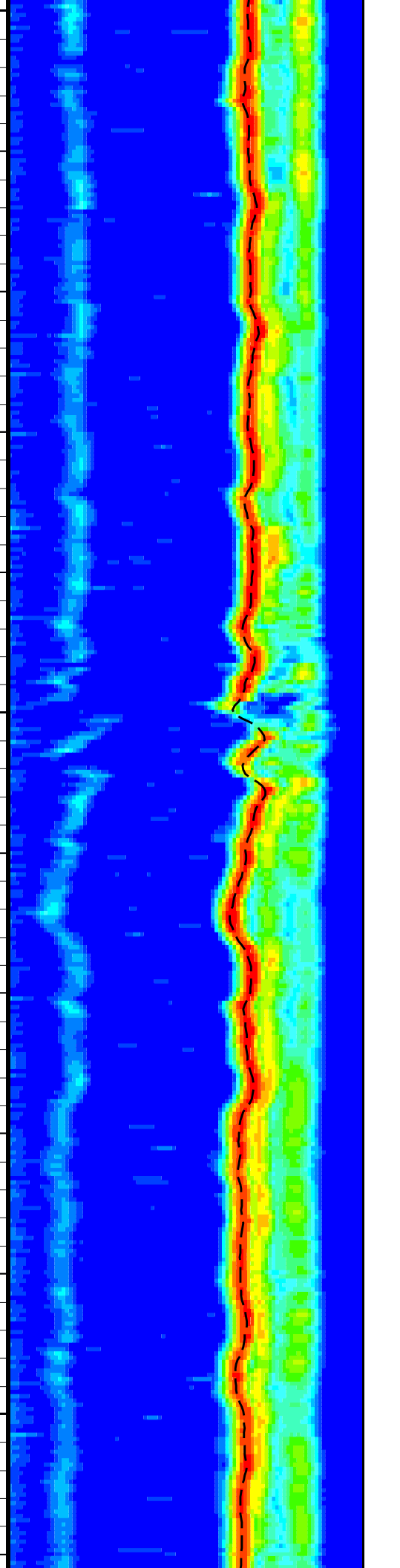
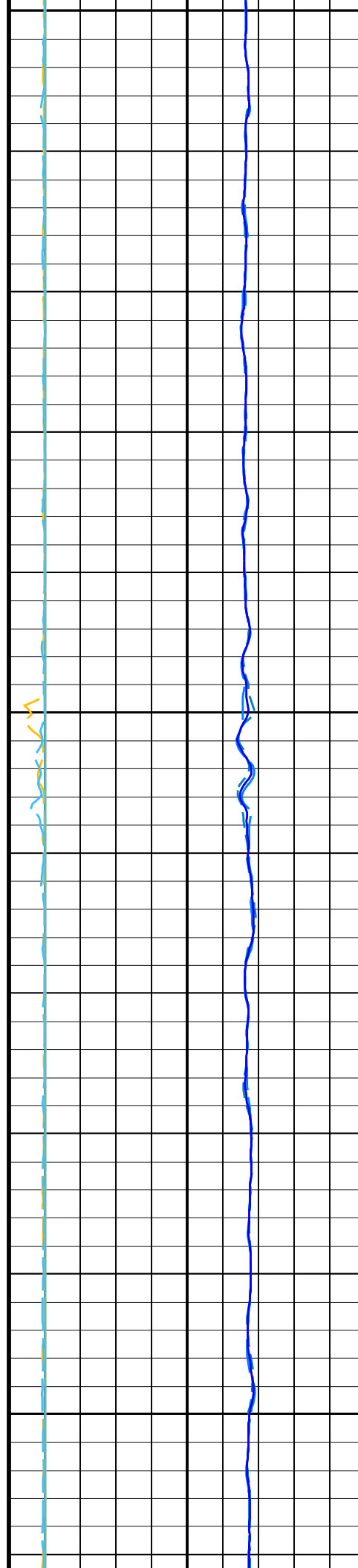


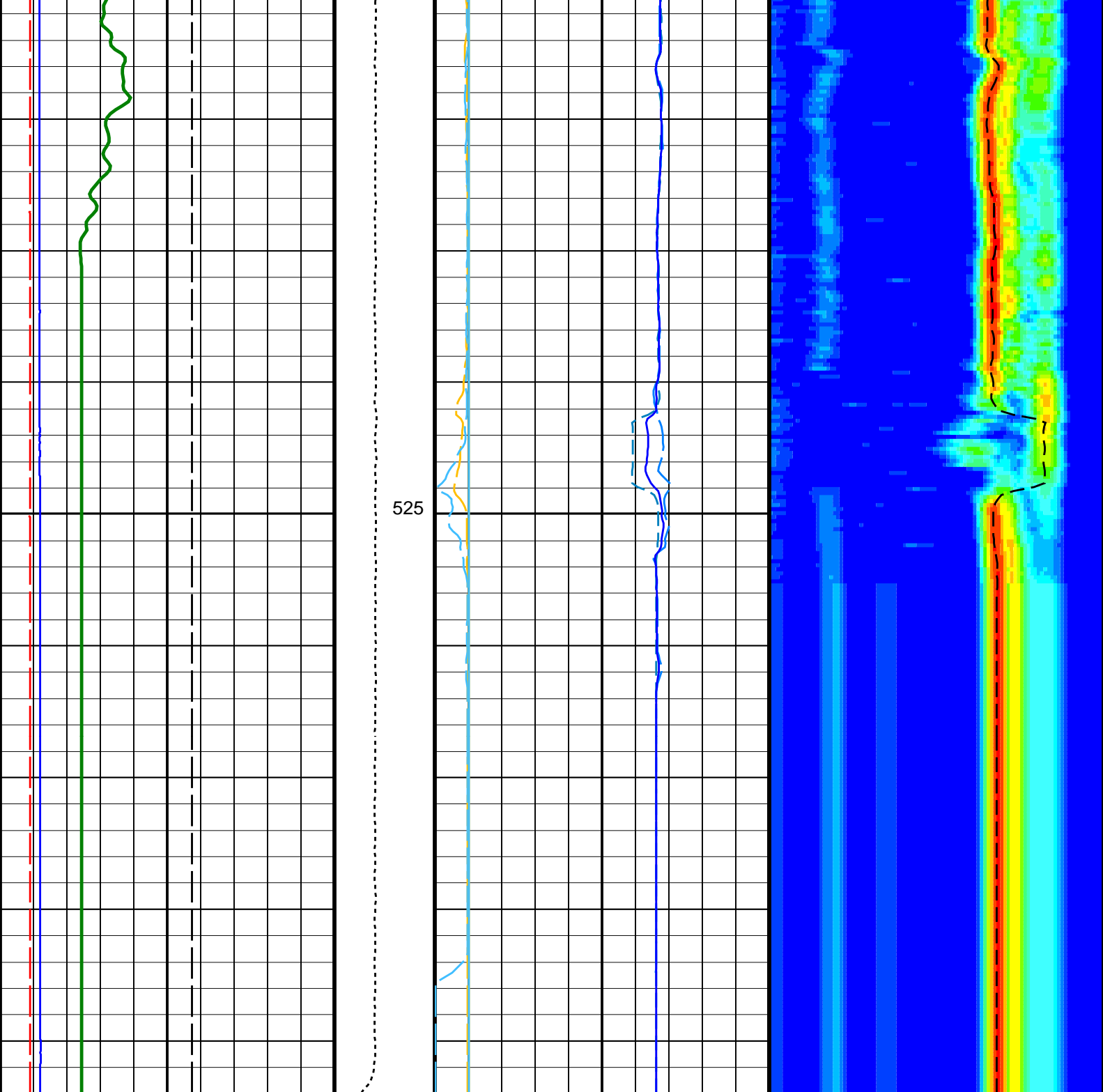


450

475

500





<div>Bit Size (BS)</div> <div>(IN)</div> <div>020</div>	<div>Tension</div> <div>(TENS)</div> <div>(LBF)</div> <div>05000</div>	<div>Peak Coherence / RA - P & S Comp</div> <div>(CHRP)</div> <div>(-----)</div> <div>010</div>	<div>Delta-T Comp / RA - P & S (DTRP)</div> <div>(US/F)</div> <div>40240</div>
<div>Caliper 1 (C1)</div> <div>(IN)</div> <div>020</div>		<div>Peak Coherence / TA - P & S Comp</div> <div>(CHTP)</div> <div>(-----)</div> <div>010</div>	<div>Delta-T Shear / RA - P & S (DTRS)</div> <div>(US/F)</div> <div>40240</div>
<div>Caliper 2 (C2)</div> <div>(IN)</div> <div>020</div>		<div>Peak Coherence / RA - P & S Shear</div> <div>(CHRS)</div> <div>(-----)</div> <div>-19</div>	<div>MinAmplitudeMax</div> <div>Rec.Array P&S Slow Proj. CVDL (SPR4)</div> <div>(US/F)</div> <div>40240</div>
<div>HNGS Spectroscopy Gamma Ray</div> <div>(HSGR)</div> <div>(GAPI)</div> <div>0100</div>		<div>Peak Coherence / TA - P & S Shear</div> <div>(CHTS)</div> <div>(-----)</div> <div>-19</div>	
		<div>Delta-T Comp / RA - P & S (DTRP)</div>	

440	(US/F)	40
Delta-T Comp / TA - P & S (DTTP)		
440	(US/F)	40
Delta-T Comp - P & S (DT4P)		
440	(US/F)	40
Delta-T Shear / RA - P & S (DTRS)		
440	(US/F)	40
Delta-T Shear / TA - P & S (DTTS)		
440	(US/F)	40
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function - Monopole P&S	50
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	105 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	205 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	189 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	ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS4	STC Sonic Array Status - Monopole P&S	255
SBO4	STC Search Band Offset - Monopole P&S	500 US
SBR4	STC Baseline Removal - Monopole P&S	ON
SBW4	STC Search Bandwidth - Monopole P&S	2000 US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE
SFM4	STC Filter - Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	210 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	440 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	5110 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
HNCS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNCS Detector 1 Barite Constant	1

BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	0	
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	-0.098106	
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	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07049	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.06536	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-339.4	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09-Sep-2013 13:33

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_028LUP	PRODUCER	09-Sep-2013 12:27	886.4 M	290.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:45	PRODUCER	09-Sep-2013 13:33	
CLIENT	FMS_DSI_NGS_037PUC	FN:46	CUSTOMER	09-Sep-2013 13:33	

Schlumberger

**Repeat Pass
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 346, Site U1427A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_013LUP	FN:12	PRODUCER	08-Sep-2013 05:22	884.7 M	764.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:41	PRODUCER	09-Sep-2013 13:26	546.4 M	425.3 M
CLIENT	FMS_DSI_NGS_035PUC	FN:42	CUSTOMER	09-Sep-2013 13:26	546.4 M	425.3 M

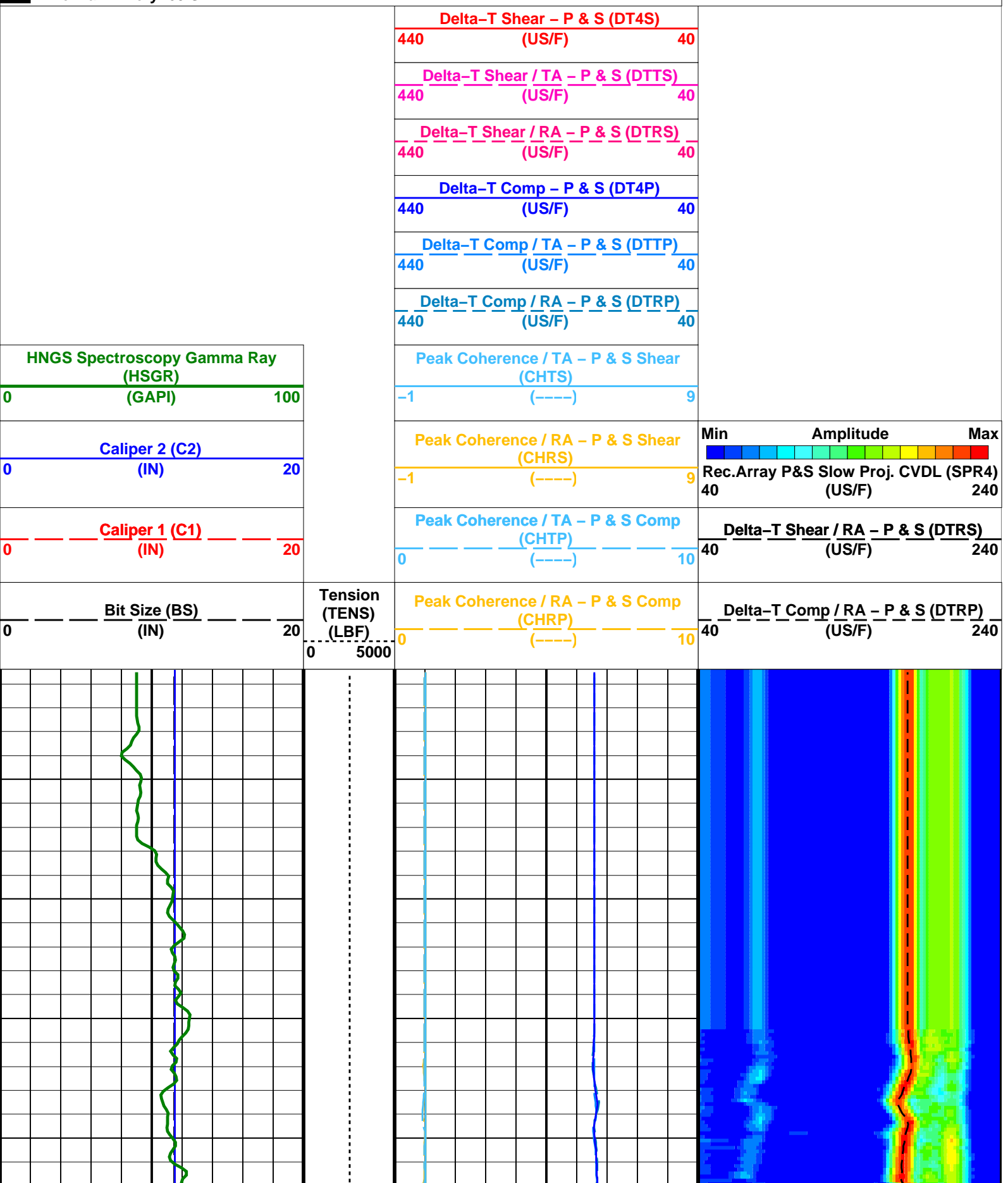
OP System Version: 19C0-187

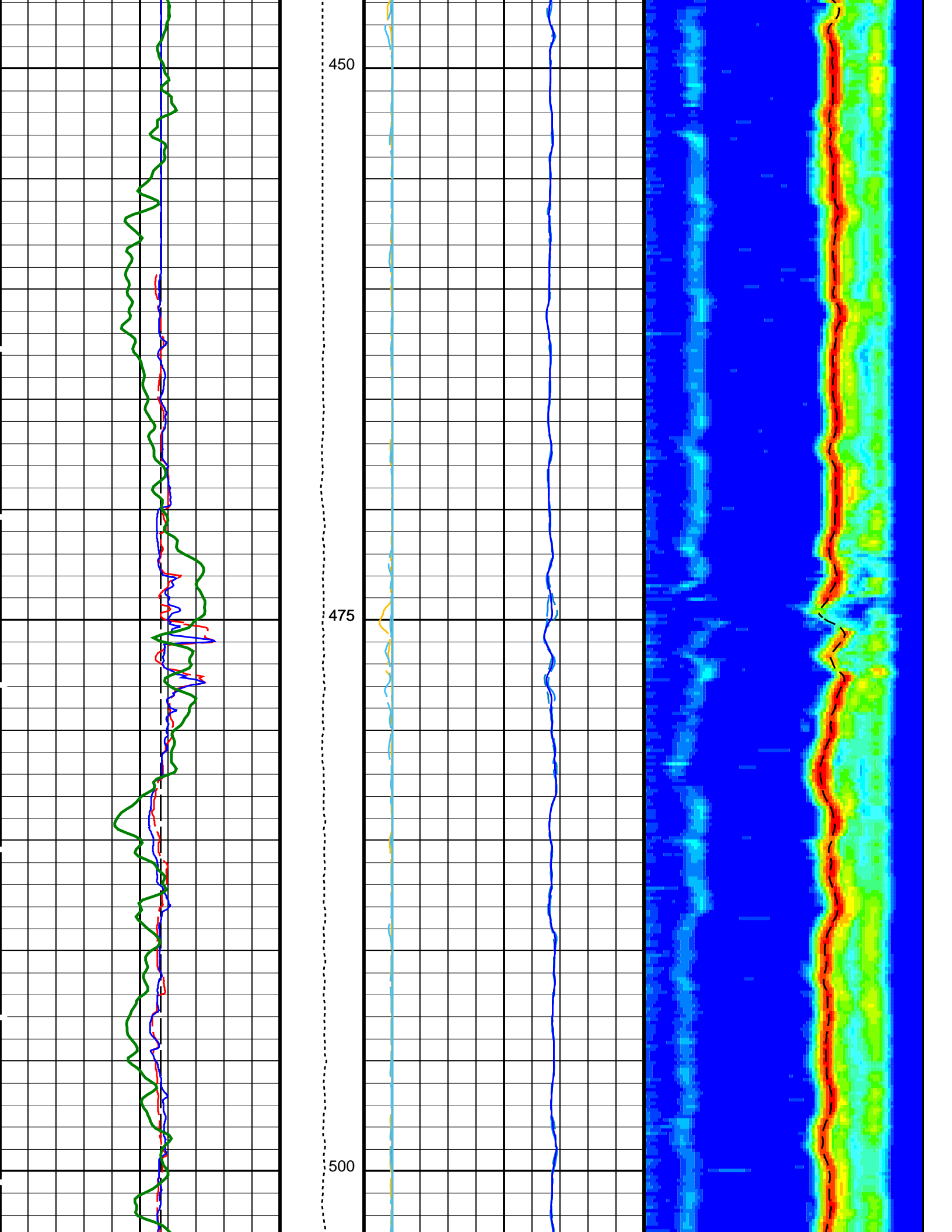
MEST-B 19C0-187
DSST-B 19C0-187
HNGS-BA 19C0-187

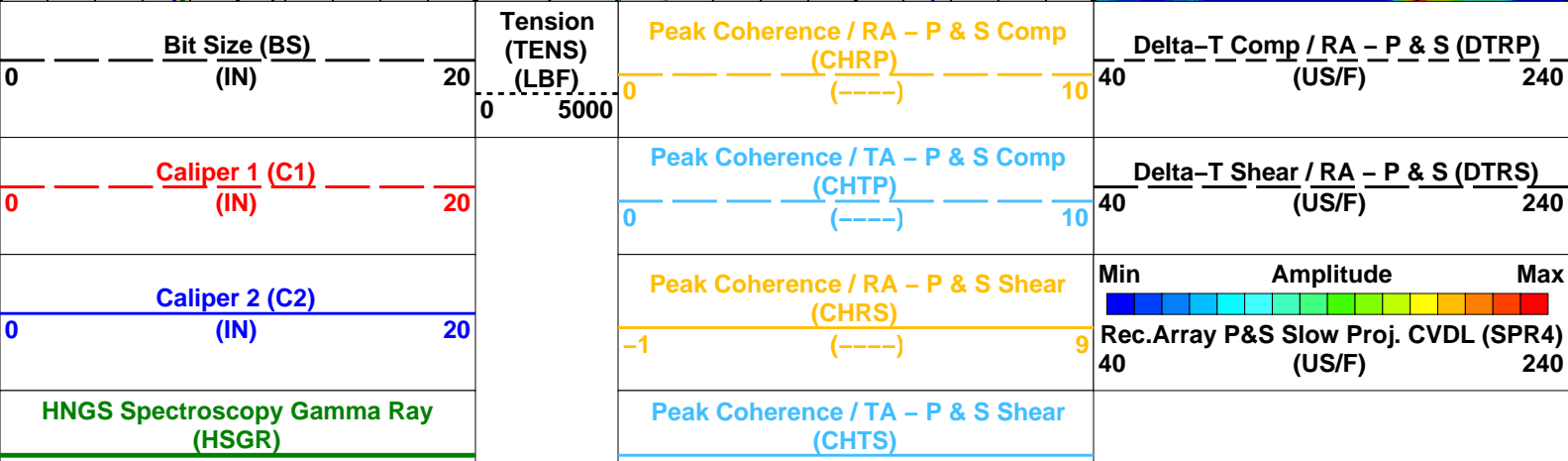
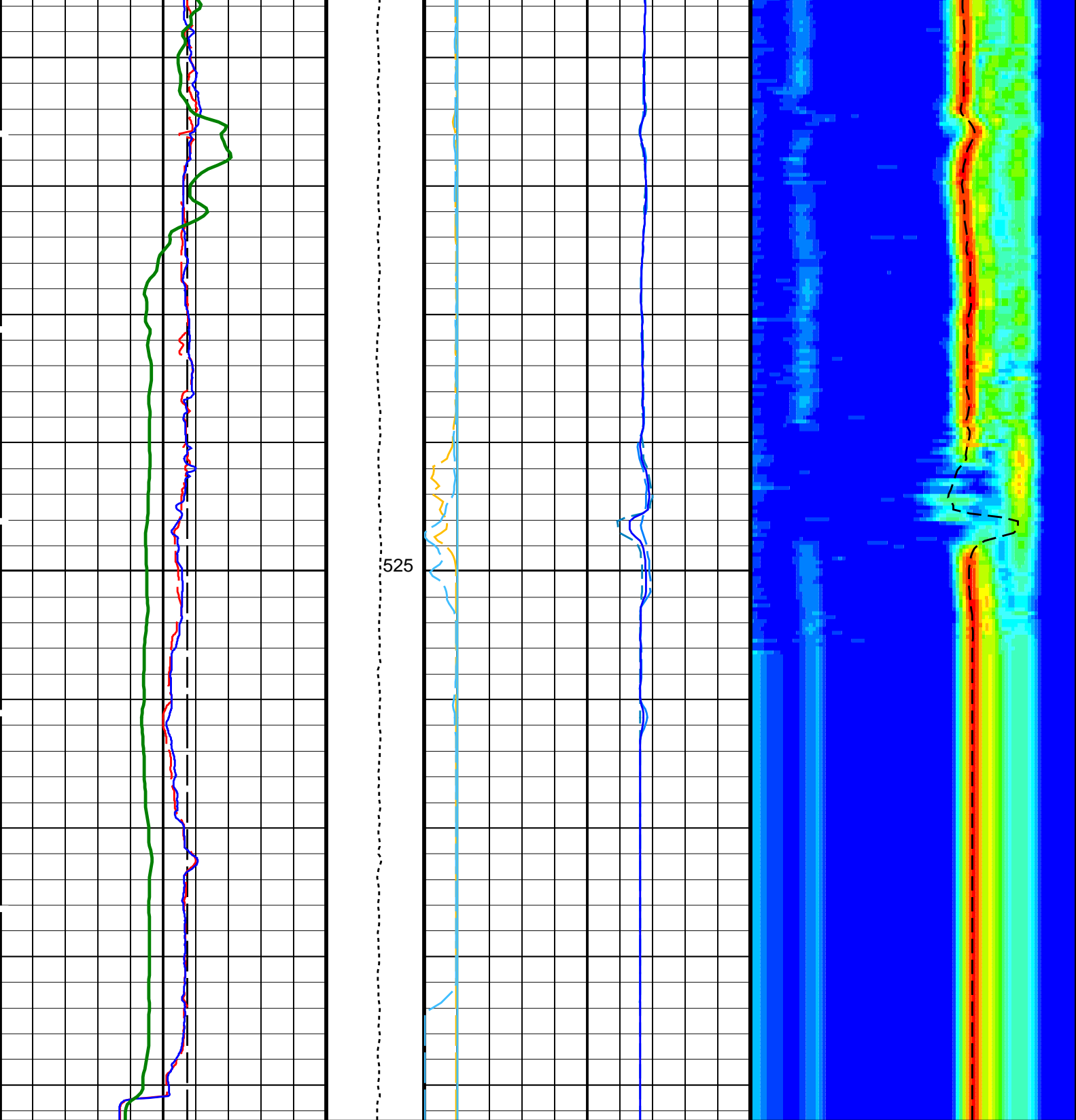
DTA-A 19C0-187
HNGC-B 19C0-187
EDTC-B SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S







0	(GAPI)	100	-1	(-----)	9
<u>Delta-T Comp / RA - P & S (DTRP)</u>					
440	(US/F)				40
<u>Delta-T Comp / TA - P & S (DTTP)</u>					
440	(US/F)				40
<u>Delta-T Comp - P & S (DT4P)</u>					
440	(US/F)				40
<u>Delta-T Shear / RA - P & S (DTRS)</u>					
440	(US/F)				40
<u>Delta-T Shear / TA - P & S (DTTS)</u>					
440	(US/F)				40
<u>Delta-T Shear - P & S (DT4S)</u>					
440	(US/F)				40

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	105	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	205	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	189	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	ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	210	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	440	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	5110	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWL4	STC Integration Time Window – Monopole P&S	500	US

TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
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	-0.0158577	
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	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01524	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.02206	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-338.9	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09-Sep-2013 13:26

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_013LUP	FN:12	PRODUCER	08-Sep-2013 05:22	884.7 M	764.3 M
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Output DLIS Files

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CLIENT	FMS_DSI_NGS_035PUC	FN:42	CUSTOMER	09-Sep-2013 13:26		

Schlumberger

**Main Pass
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 346, Site U1427A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_014LUP	FN:13	PRODUCER	08-Sep-2013 05:44	884.7 M	292.3 M
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Output DLIS Files

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CLIENT	FMS_DSI_NGS_034PUC	FN:40	CUSTOMER	09-Sep-2013 13:23	546.4 M	-10.1 M

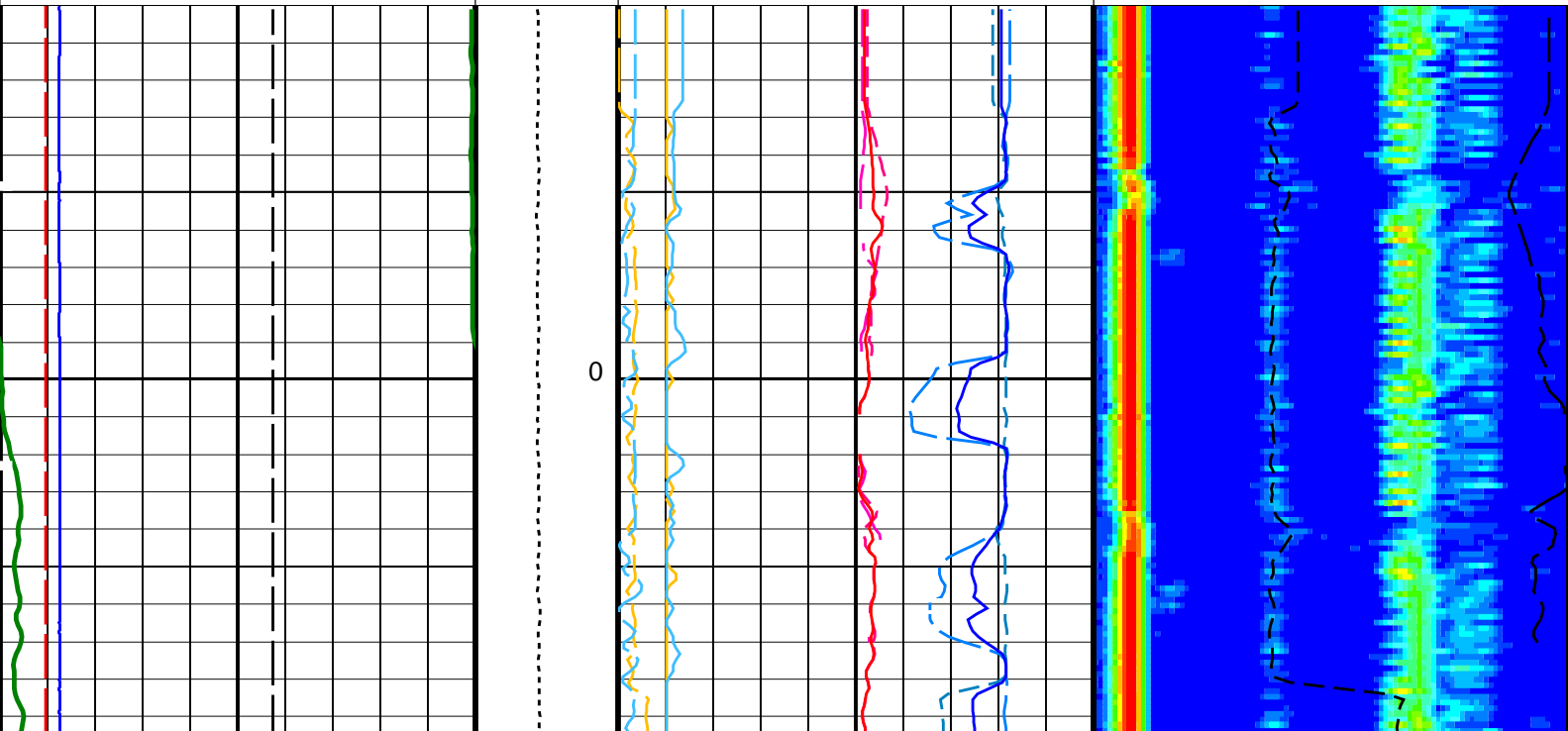
OP System Version: 19C0-187

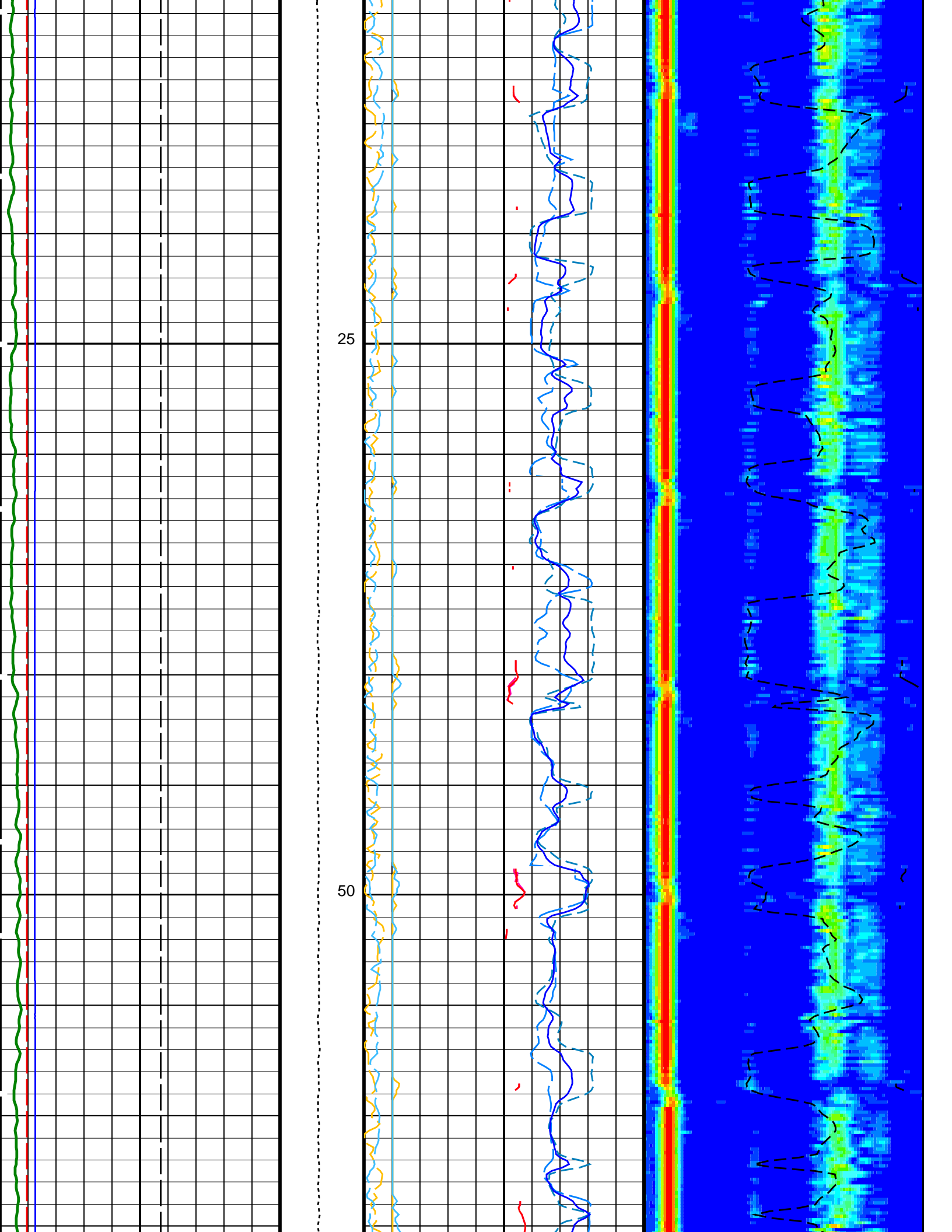
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

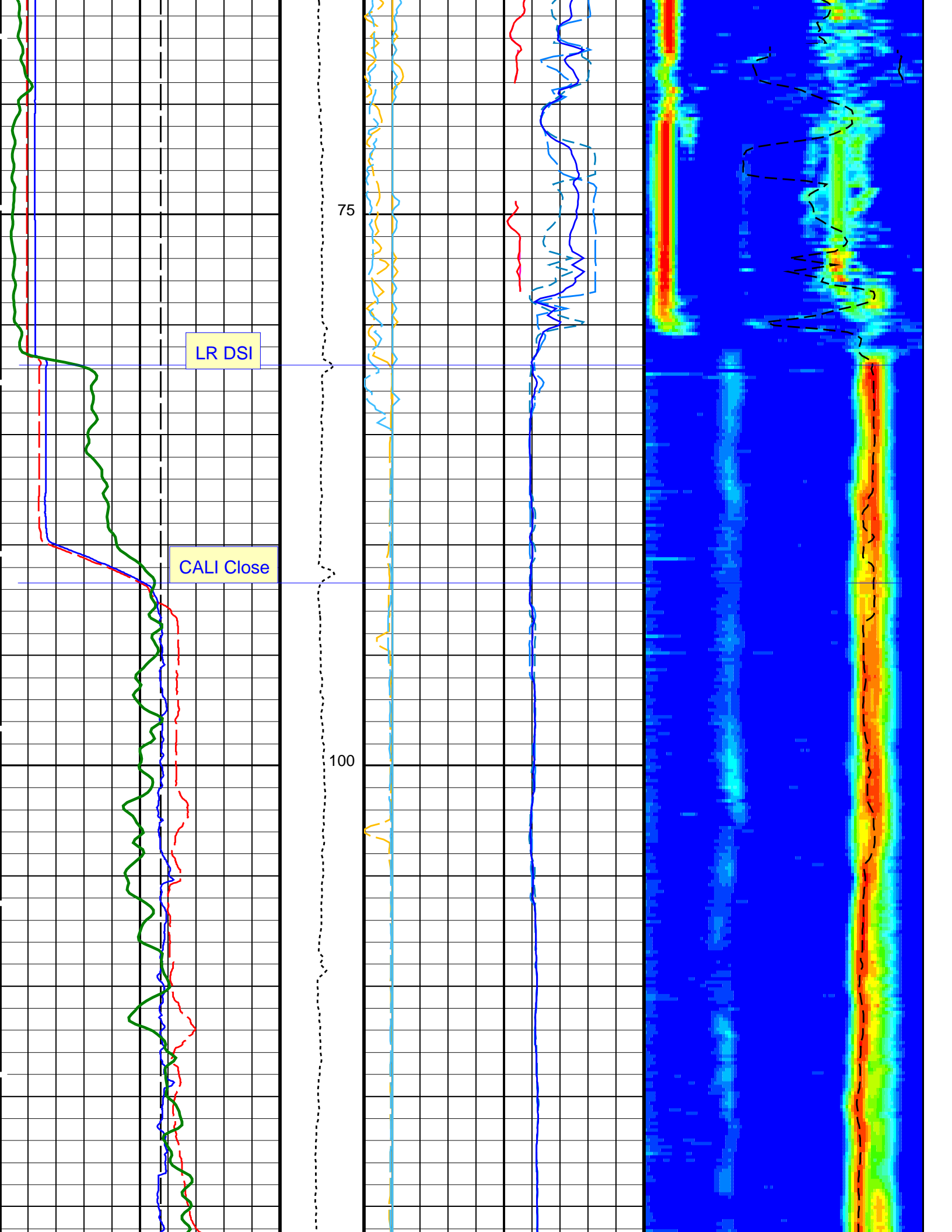
PIP SUMMARY

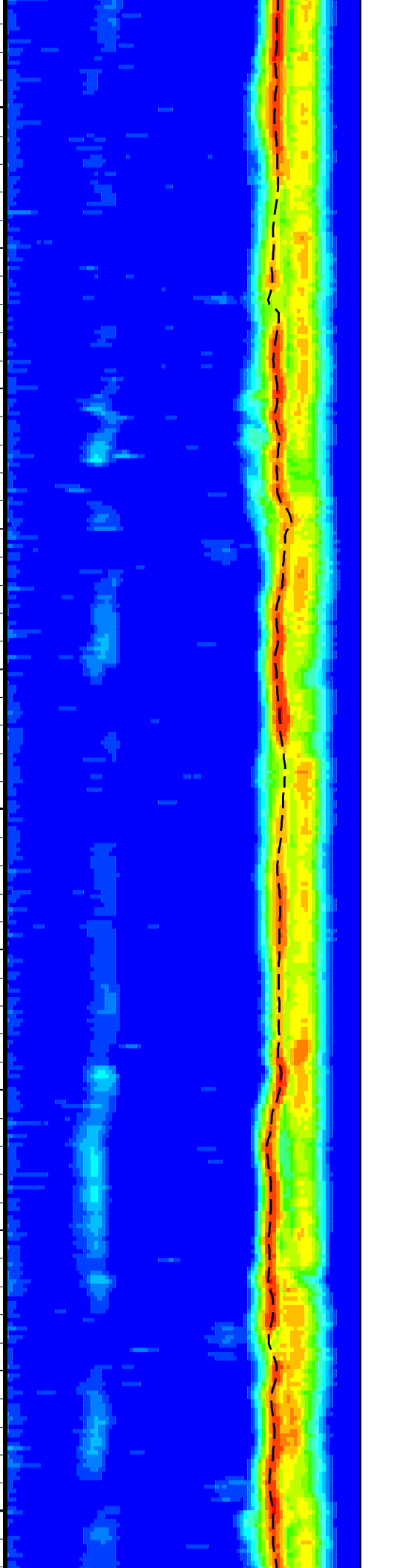
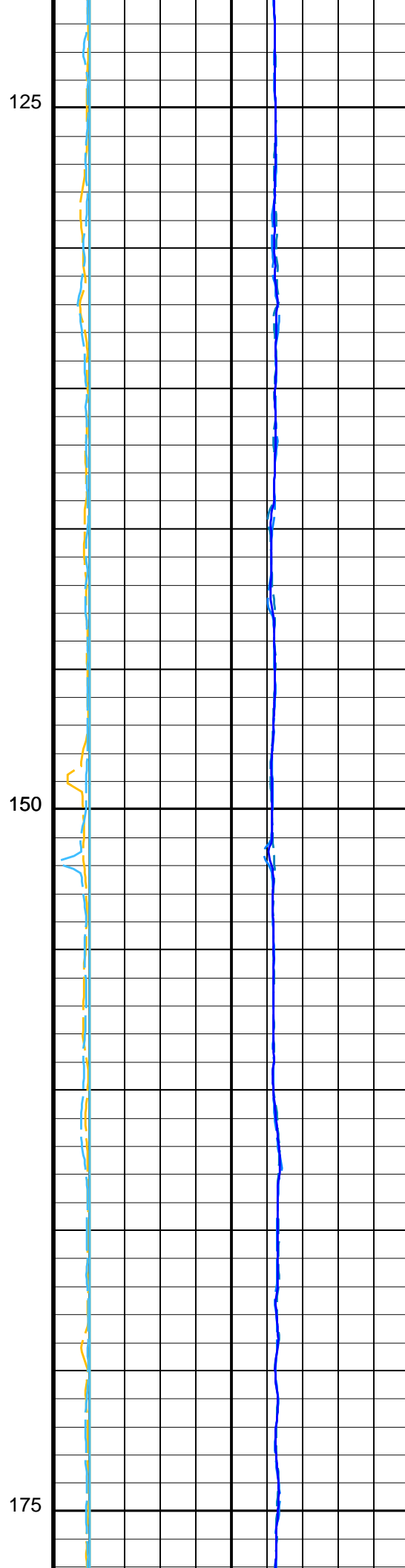
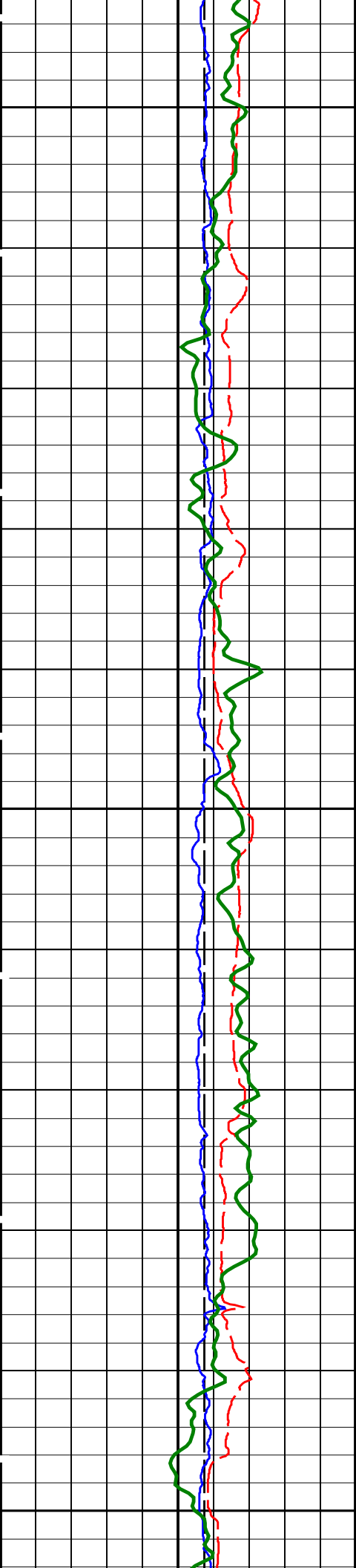
Time Mark Every 60 S

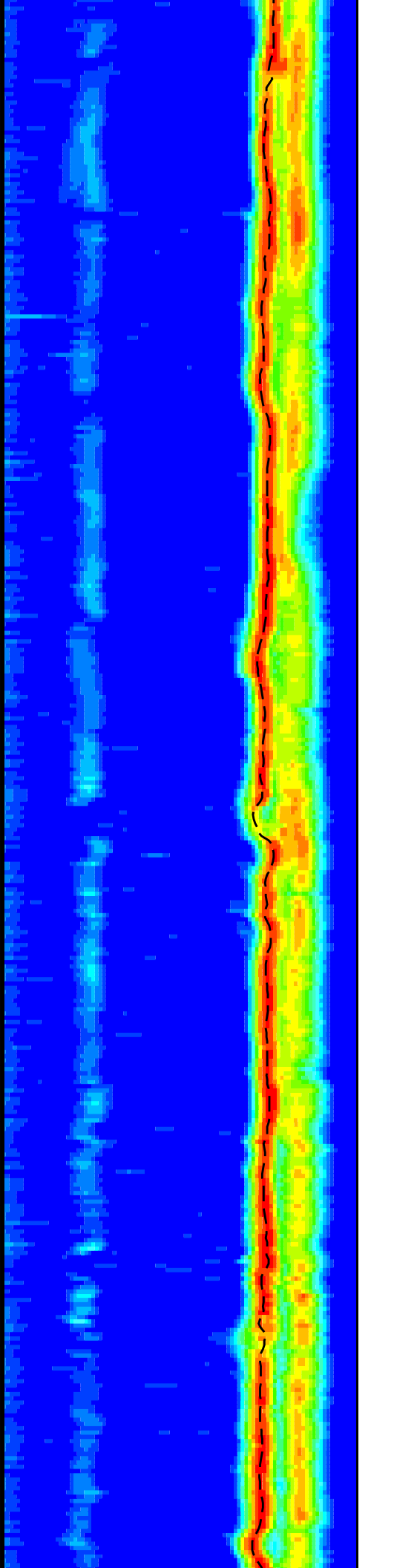
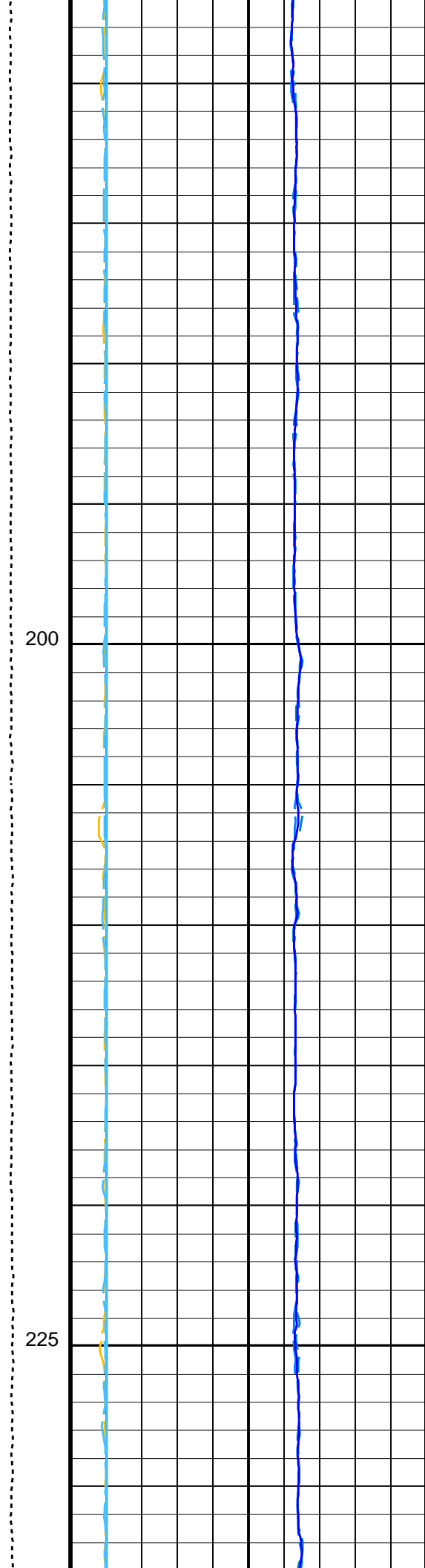
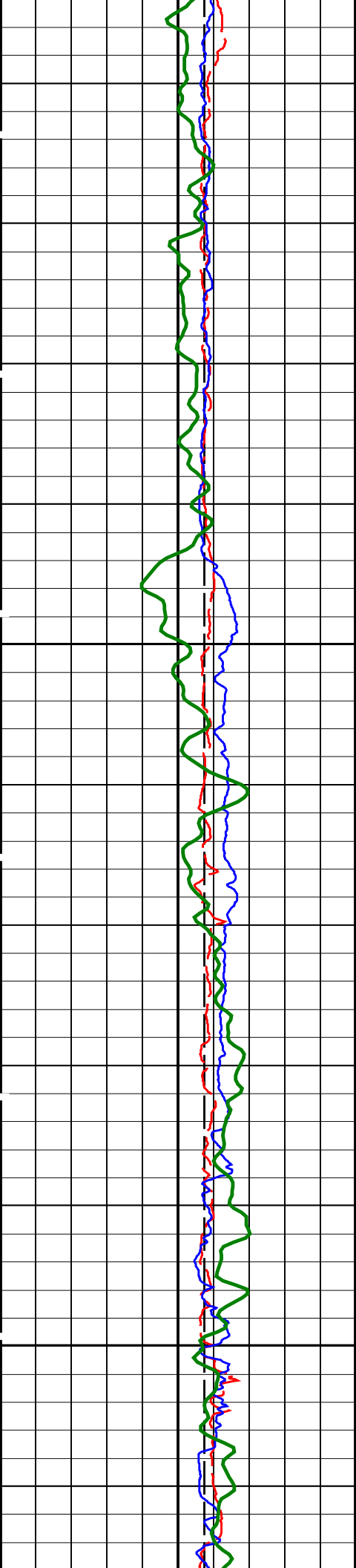
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		<div>Delta-T Shear / TA - P & S (DTTS)</div> <div>440 (US/F) 40</div>		
		<div>Delta-T Shear / RA - P & S (DTRS)</div> <div>440 (US/F) 40</div>		
		<div>Delta-T Comp - P & S (DT4P)</div> <div>440 (US/F) 40</div>		
		<div>Delta-T Comp / TA - P & S (DTTP)</div> <div>440 (US/F) 40</div>		
		<div>Delta-T Comp / RA - P & S (DTRP)</div> <div>440 (US/F) 40</div>		
<div>HNGS Spectroscopy Gamma Ray (HSGR)</div> <div>0 (GAPI) 100</div>		<div>Peak Coherence / TA - P & S Shear (CHTS)</div> <div>-1 (----) 9</div>		
<div>Caliper 2 (C2)</div> <div>0 (IN) 20</div>		<div>Peak Coherence / RA - P & S Shear (CHRS)</div> <div>-1 (----) 9</div>	<div>MinAmplitudeMax</div> <div>Rec.Array P&S Slow Proj. CVDL (SPR4)</div> <div>40 (US/F) 240</div>	
<div>Caliper 1 (C1)</div> <div>0 (IN) 20</div>		<div>Peak Coherence / TA - P & S Comp (CHTP)</div> <div>0 (----) 10</div>	<div>Delta-T Shear / RA - P & S (DTRS)</div> <div>40 (US/F) 240</div>	
<div>Bit Size (BS)</div> <div>0 (IN) 20</div>	<div>Tension (TENS) (LBF)</div> <div>0 5000</div>	<div>Peak Coherence / RA - P & S Comp (CHRP)</div> <div>0 (----) 10</div>	<div>Delta-T Comp / RA - P & S (DTRP)</div> <div>40 (US/F) 240</div>	

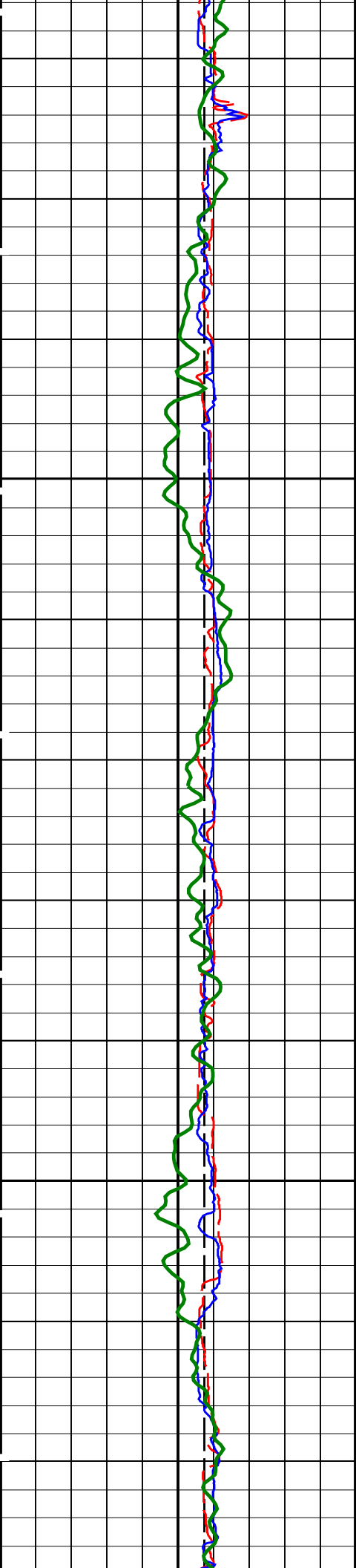






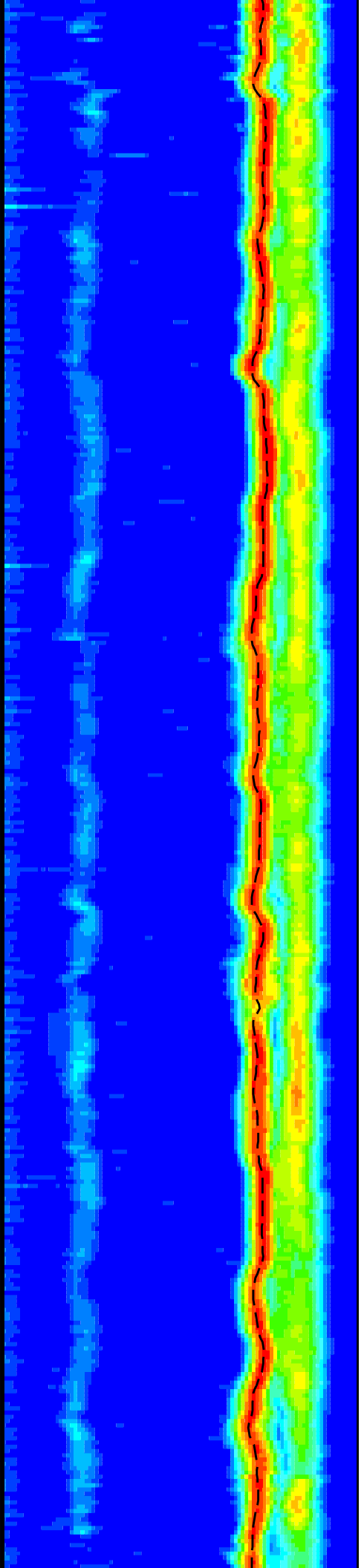
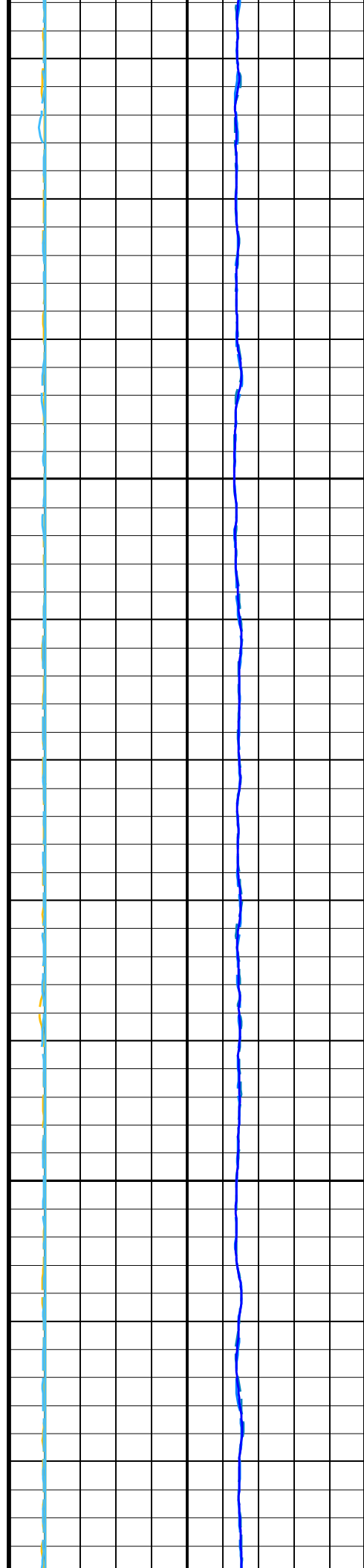


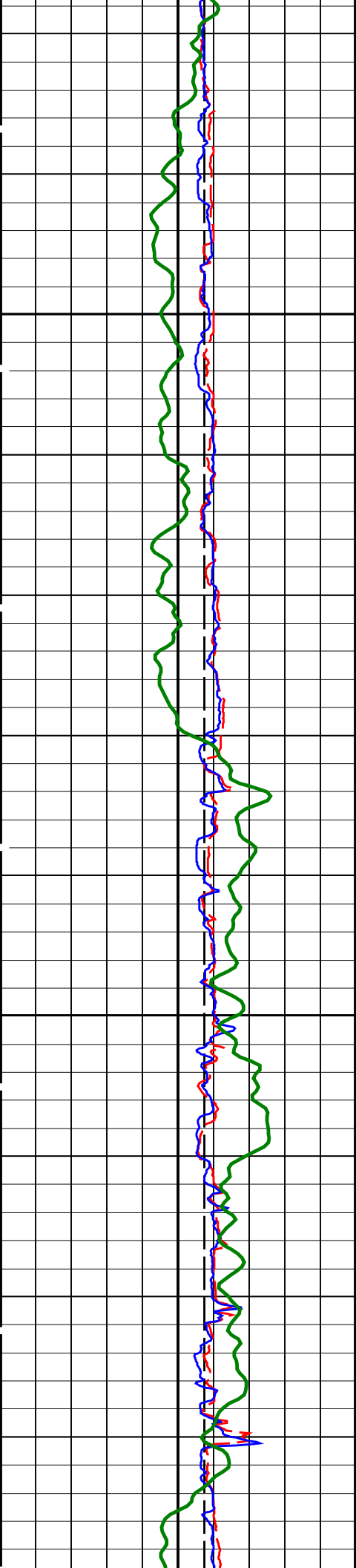




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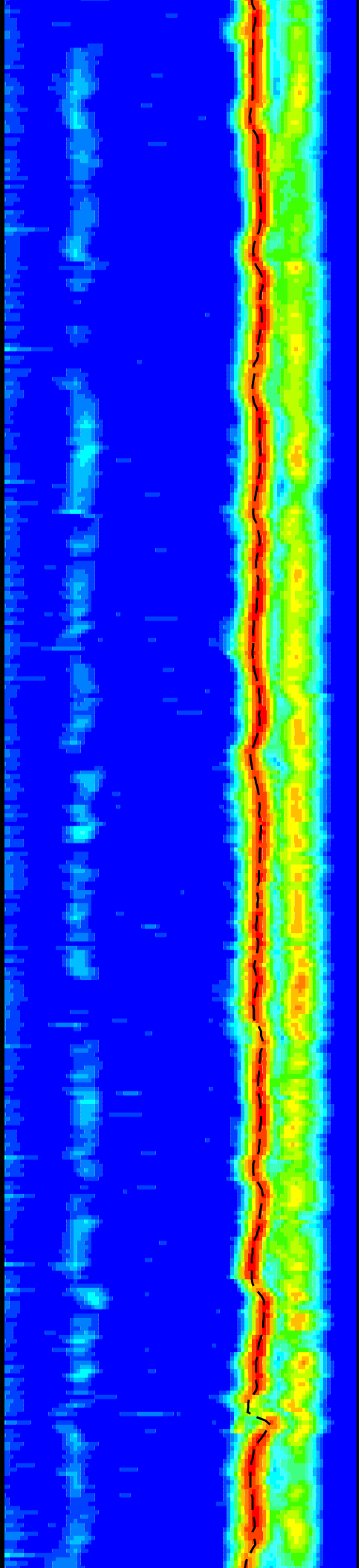
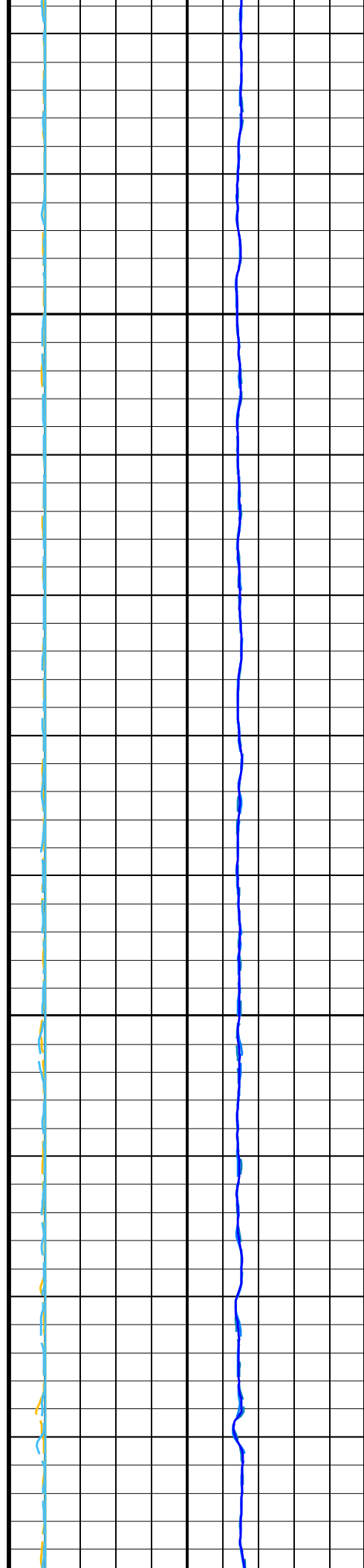
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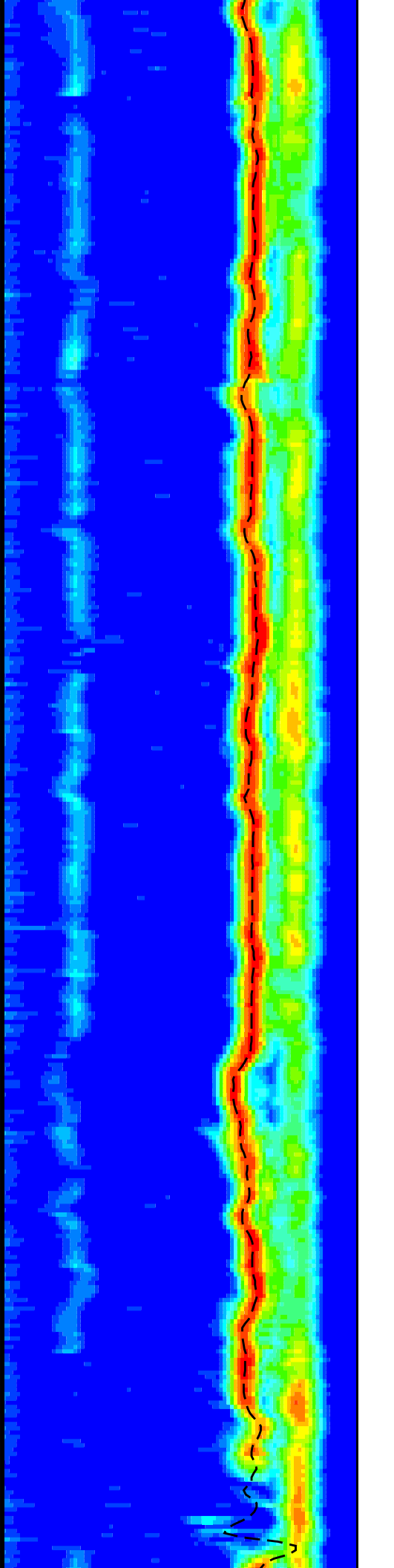
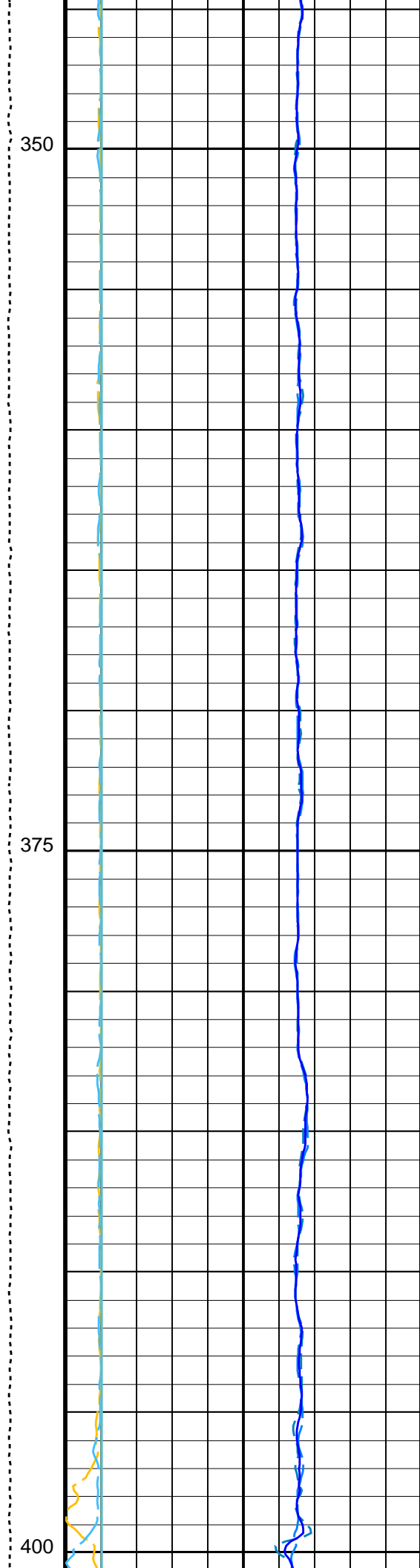
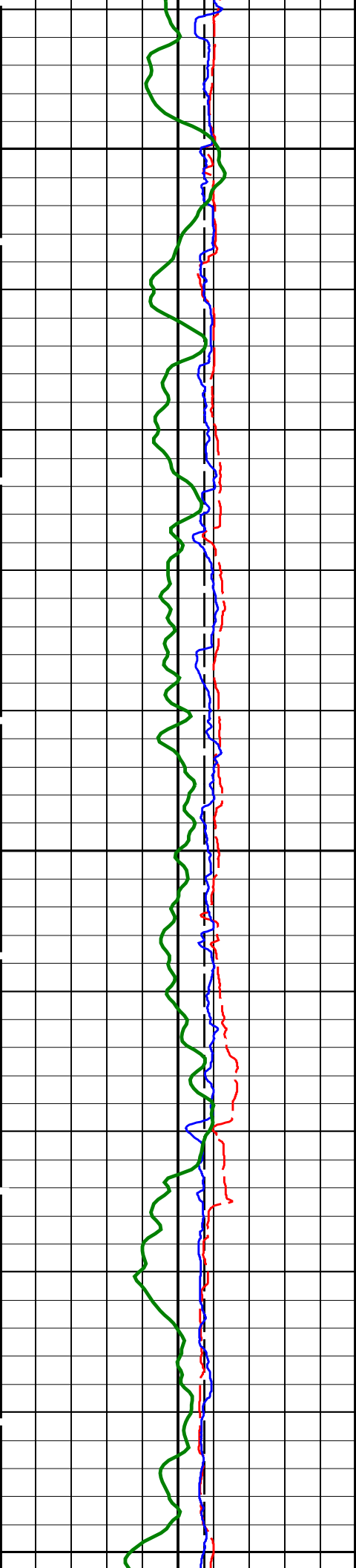


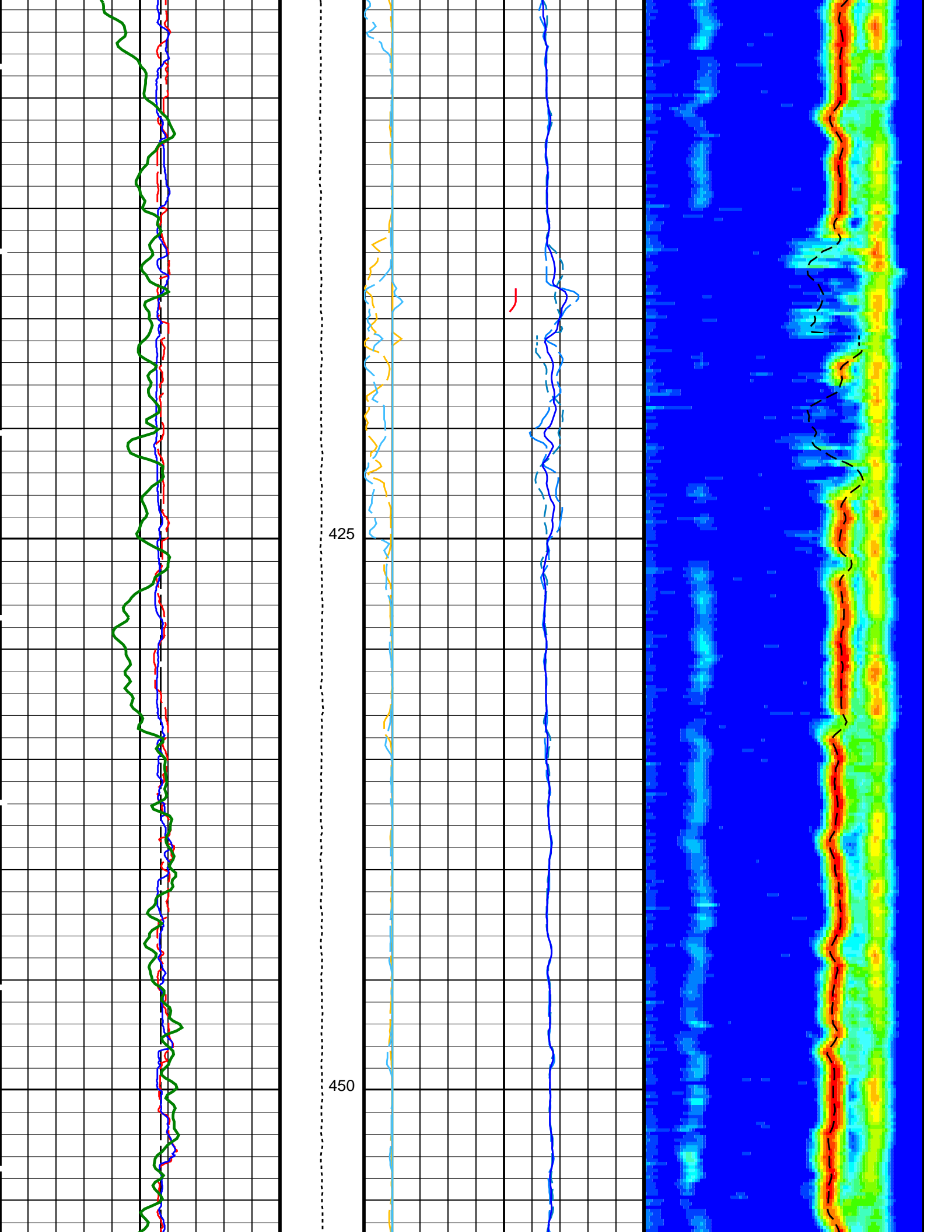


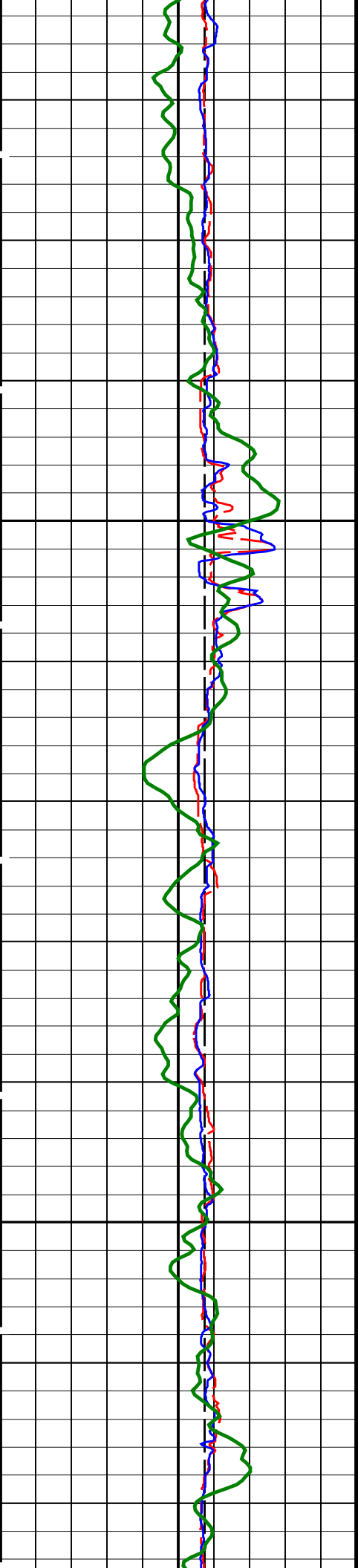
300

325



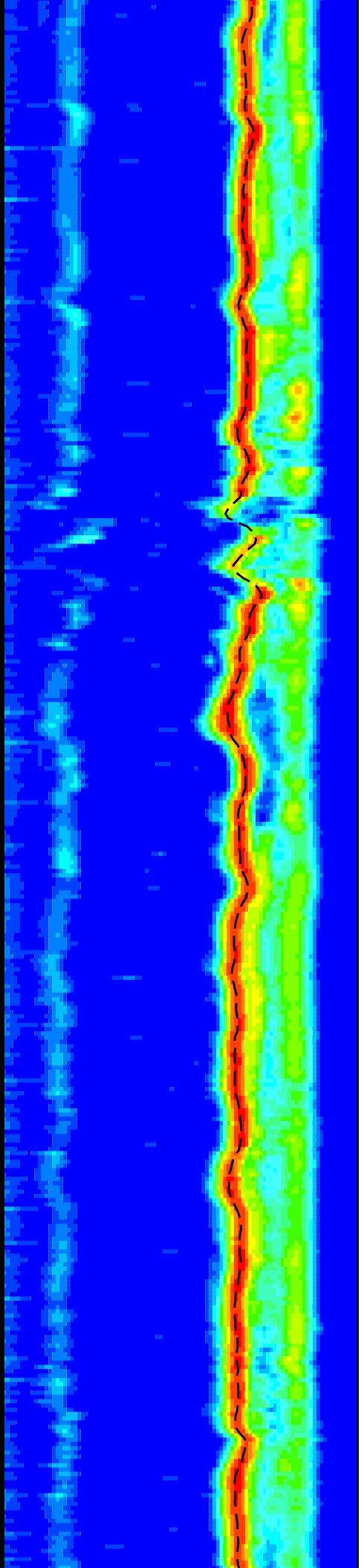
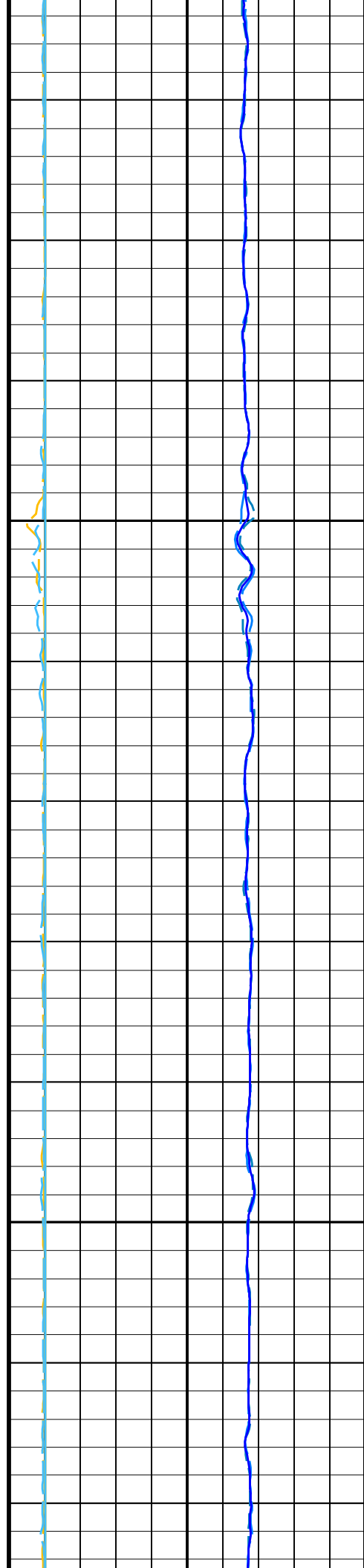


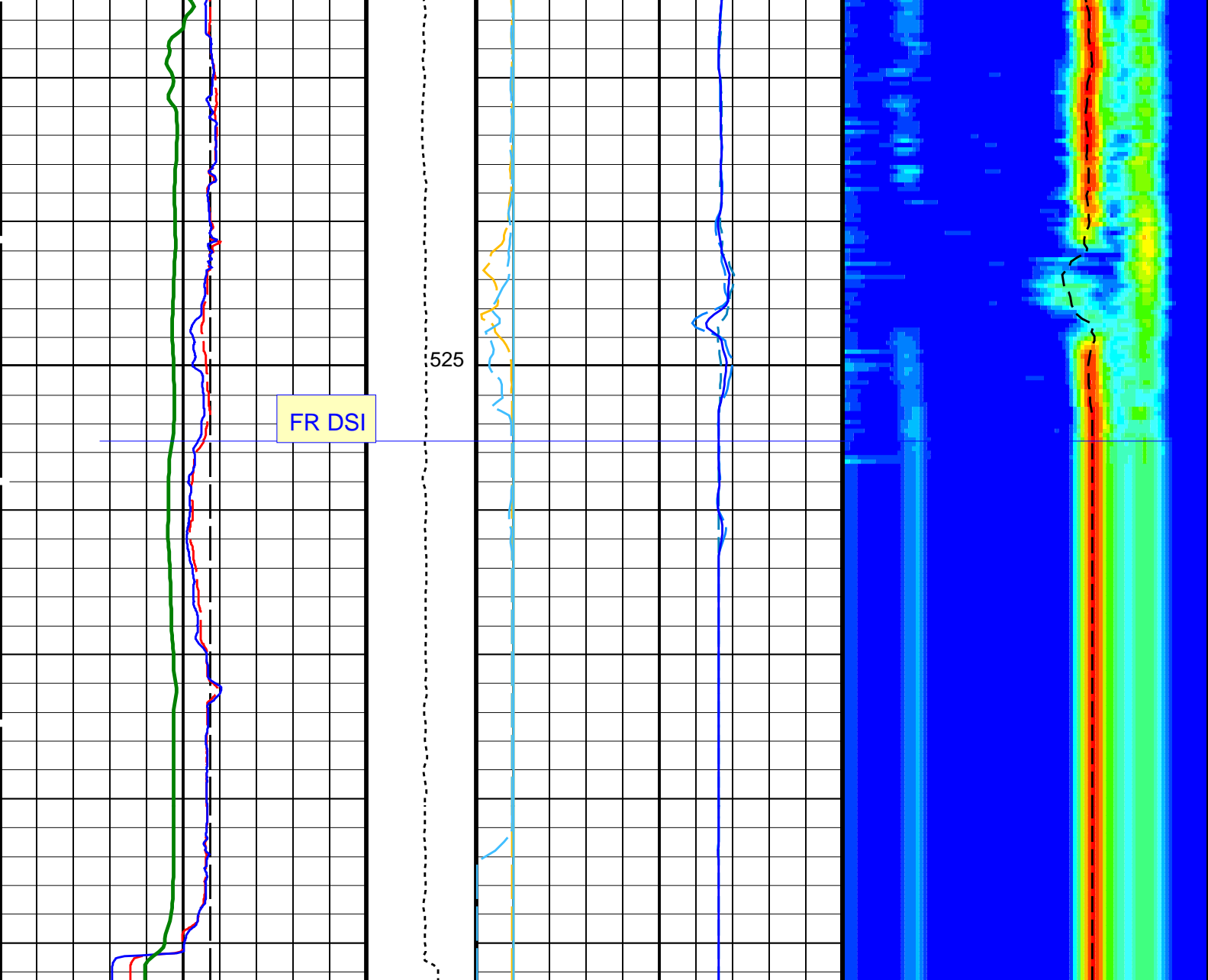




475

500





<div>Bit Size (BS) (IN)</div> <div>020</div>	<div>Tension (TENS) (LBF)</div> <div>05000</div>	<div>Peak Coherence / RA - P & S Comp (CHRP)</div> <div>010</div>	<div>Delta-T Comp / RA - P & S (DTRP)</div> <div>40240</div>
<div>Caliper 1 (C1) (IN)</div> <div>020</div>		<div>Peak Coherence / TA - P & S Comp (CHTP)</div> <div>010</div>	<div>Delta-T Shear / RA - P & S (DTRS)</div> <div>40240</div>
<div>Caliper 2 (C2) (IN)</div> <div>020</div>		<div>Peak Coherence / RA - P & S Shear (CHRS)</div> <div>-19</div>	<div>MinAmplitudeMax</div> <div>Rec.Array P&S Slow Proj. CVDL (SPR4)</div> <div>40240</div>
<div>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</div> <div>0100</div>		<div>Peak Coherence / TA - P & S Shear (CHTS)</div> <div>-19</div>	
		<div>Delta-T Comp / RA - P & S (DTRP)</div> <div>44040</div>	
		<div>Delta-T Comp / TA - P & S (DTTP)</div> <div>44040</div>	
		<div>Delta-T Comp - P & S (DT4P)</div> <div>44040</div>	
		<div>Delta-T Shear / RA - P & S (DTRS)</div>	

440	(US/F)	40
Delta-T Shear / TA - P & S (DTTS)		
440	(US/F)	40
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function - Monopole P&S	50
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	105 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	205 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	189 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	ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS4	STC Sonic Array Status - Monopole P&S	255
SBO4	STC Search Band Offset - Monopole P&S	500 US
SBR4	STC Baseline Removal - Monopole P&S	ON
SBW4	STC Search Bandwidth - Monopole P&S	2000 US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE
SFM4	STC Filter - Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	210 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	440 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	5110 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
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	-0.014383	
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	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.99861	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00455	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-338.9	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09-Sep-2013 13:23

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_014LUP	FN:13	PRODUCER	08-Sep-2013 05:44	884.7 M	292.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:39	PRODUCER	09-Sep-2013 13:23
CLIENT	FMS_DSI_NGS_034PUC	FN:40	CUSTOMER	09-Sep-2013 13:23

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52							
Na 511 Peak Loc	40.00	39.74	39.66	39.66	-0.001842	1.000	
Na 511 Peak Res	15.50	15.31	14.99	15.59	0.6071	2.000	%
High Voltage	1150	1168	1175	1177	1.875	N/A	V
Na 1785 Peak Loc	142.6	142.6	141.1	143.1	1.995	7.000	
Na 1785 Peak Res	8.500	9.002	8.739	8.350	-0.3891	2.000	%
Temperature	15.50	21.46	30.66	29.21	-1.452	N/A	DEGC
Na Count Rate	45.00	15.10	12.22	12.96	0.7358	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52							
Na 511 Peak Loc	40.00	39.58	39.50	39.79	0.2864	1.000	
Na 511 Peak Res	15.50	16.04	16.51	15.30	-1.204	2.000	%
High Voltage	1150	1093	1109	1110	1.251	N/A	V
Na 1785 Peak Loc	142.6	141.7	143.1	142.4	-0.7710	7.000	
Na 1785 Peak Res	8.500	9.499	8.731	9.377	0.6464	2.000	%
Temperature	15.50	21.85	30.81	29.84	-0.9677	N/A	DEGC
Na Count Rate	45.00	15.10	12.22	12.96	0.7358	8.000	CPS

Temperature	15.50	21.65	30.81	30.84	0.03577	N/A	DEGC
Na Count Rate	45.00	14.93	12.29	12.87	0.5788	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52							
Coincidence Count Rate Ratio	1.000	1.015	0.9928	1.007	0.01398	0.05000	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 30-Aug-2013 3:44							
EDTC Z-Axis Acceleration	9.810	N/A	9.794	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: 30-Aug-2013 3:38							
Gamma Ray (Jig – Bkg)	204.1	N/A	204.1	N/A	N/A	18.55	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Litho-Density Spectroscopy Cartridge – B / Equipment Identification		
Primary Equipment:		
LDSC Cartridge	LDSC – B	326
Auxiliary Equipment:		
LDSC Housing	LDSH – A	303

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification		
Primary Equipment:		
HNGC Cartridge	HNGC – B	300
Auxiliary Equipment:		
HNGC Housing	HNGH – A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification		
Primary Equipment:		
HNGS Sonde	HNGS – BA	194
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH – BA	205
Gamma Source Radioactive	GSR – U	616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration								
Detector 1 Check								
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.74	Master		15.31	Master		1168
Before		39.66	Before		14.99	Before		1175
After		39.66	After		15.59	After		1177
	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		9.002	Master		21.46
Before		141.1	Before		8.739	Before		30.66
After		143.1	After		8.350	After		29.21
	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		15.10						
Before		12.22						
After		12.96						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 29-Jul-2013 20:46			Before: 30-Aug-2013 3:43			After: 30-Aug-2013 9:52		

Hostile Natural Gamma Ray Sonde Wellsite Calibration											
Detector 2 Check											
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master	<div><div></div></div>		39.58	Master	<div><div></div></div>		16.04	Master	<div><div></div></div>		1093
Before	<div><div></div></div>		39.50	Before	<div><div></div></div>		16.51	Before	<div><div></div></div>		1109
After	<div><div></div></div>		39.79	After	<div><div></div></div>		15.30	After	<div><div></div></div>		1110
37.50 (Minimum)40.00 (Nominal)43.50 (Maximum)				12.00 (Minimum)15.50 (Nominal)19.00 (Maximum)				900.0 (Minimum)1150 (Nominal)1600 (Maximum)			
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master	<div><div></div></div>		141.7	Master	<div><div></div></div>		9.499	Master	<div><div></div></div>		21.65
Before	<div><div></div></div>		143.1	Before	<div><div></div></div>		8.731	Before	<div><div></div></div>		30.81
After	<div><div></div></div>		142.4	After	<div><div></div></div>		9.377	After	<div><div></div></div>		30.84
135.0 (Minimum)142.6 (Nominal)150.3 (Maximum)				7.000 (Minimum)8.500 (Nominal)11.00 (Maximum)				-28.89 (Minimum)15.50 (Nominal)60.00 (Maximum)			
Phase	Na Count Rate CPS		Value								
Master	<div><div></div></div>		14.93								
Before	<div><div></div></div>		12.29								
After	<div><div></div></div>		12.87								
10.00 (Minimum)45.00 (Nominal)100.0 (Maximum)											
Master: 29-Jul-2013 20:46				Before: 30-Aug-2013 3:43				After: 30-Aug-2013 9:52			

Company: Lamont Doherty Earth Observatory

Schlumberger

Well: Expedition 346, Site U1427A

Field: Asian Monsoon

Rig: JOIDES Resolution

Country: USA

DSI Sonic
P & S