



Well: **Expedition 356, Site U1462 C**
Field: **Indonesian Throughflow**
Rig: **JOIDES Resolution** Ocean: **Indian**

Rig: JOIDES Resolution Field: Indonesian Throughflow Location: Latitude: S 19.82127 Deg Well: Expedition 356, Site U1462 C Company: International Ocean Discovery Program	Formation Micro Scanner (FMS) Dipole Sonic P&S Compressional (DSI) Natural Gamma Ray (HNGS)			
	LOCATION	Latitude: S 19.82127 Deg Longitude: E 115.7103 Deg		Elev.: K.B. -98.00 m G.L. 0.00 m D.F. -98.00 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 E 115.7103	Latitude S 19.82127

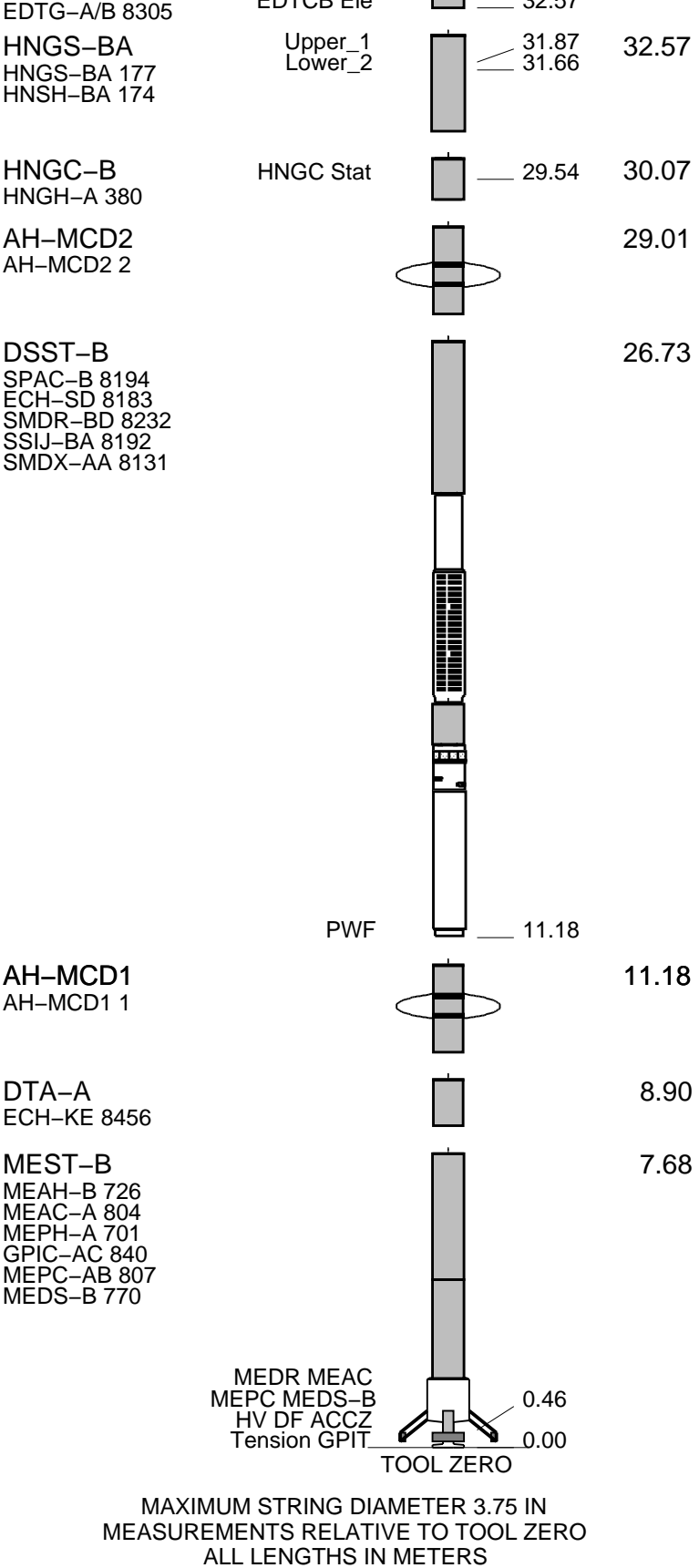
Logging Date	10-Sep-2015				
Run Number	1				
Depth Driller	950 m				
Schlumberger Depth	875 m				
Bottom Log Interval	768 m				
Top Log Interval	0 m				
Casing Driller Size @ Depth	5.500 in @ 89 m			@	
Casing Schlumberger	88 m				
Bit Size	9.875 in				
Type Fluid In Hole	Sepiolite with Barite				
Density	Viscosity	1.318 g/cm3			
Fluid Loss	PH		8.07		
Source Of Sample	Mudpit				
RM @ Measured Temperature	0.220 ohm.m @ 23 degC			@	
RMF @ Measured Temperature				@	
RMC @ Measured Temperature				@	
Source RMF	RMC	N/A	N/A		
RM @ MRT	RMF @ MRT	0.169 @ 36	@ 36	@	@
Maximum Recorded Temperatures		36 degC			
Circulation Stopped	Time	10-Sep-2015	19:15		
Logger On Bottom	Time	11-Sep-2015	1:11		
Unit Number	Location	627314 Houma, LA			
Recorded By	K. Swain				
Witnessed By	M. Gurnis, Z. Mateo, D. Vleeschouwer				

[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.

EDTH-B 8303	EFTB DIAG		//	
EFTC-B 8317	TelStatus			



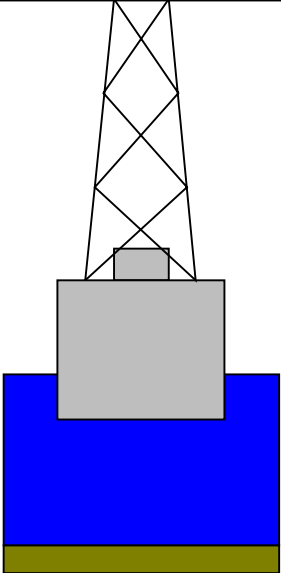
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	OD	ID

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-98
-98

-87



4.1

0
89

950

4.1
9.875

Sea Floor
Open Hole

Total Depth

Input DLIS Files						
DEFAULT	FMS_DSI_NGS_028LUP	FN:43	PRODUCER	11-Sep-2015 18:52	866.4 M	82.9 M

Output DLIS Files						
DEFAULT	FMS_DSI_NGS_062PUP	FN:66	PRODUCER	18-Sep-2015 17:04	768.1 M	-14.5 M

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

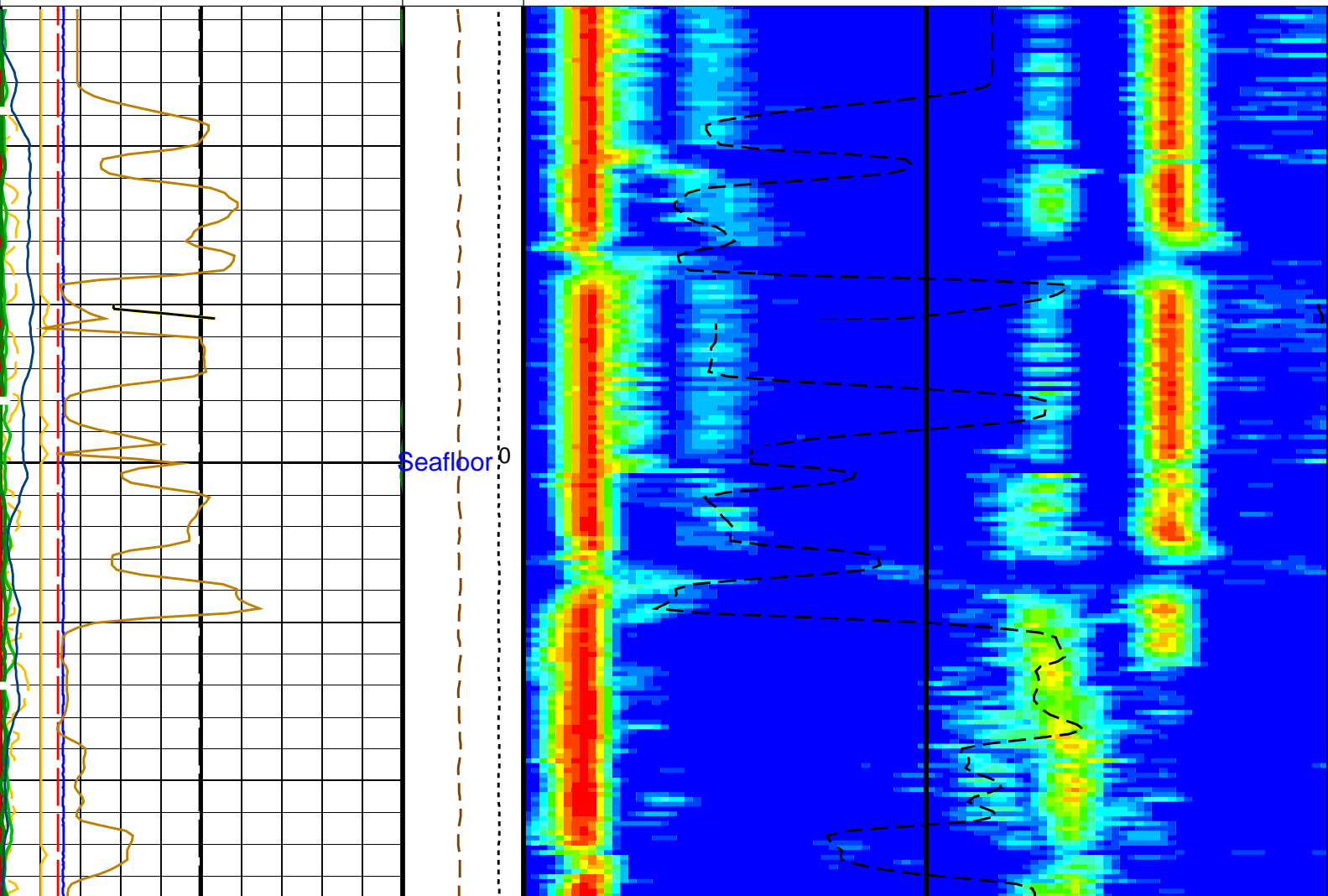
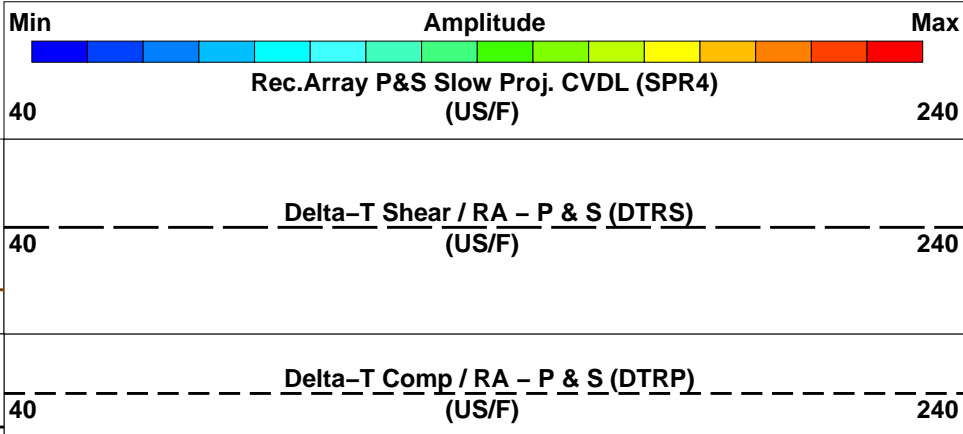
PIP SUMMARY						
Time Mark Every 60 S						

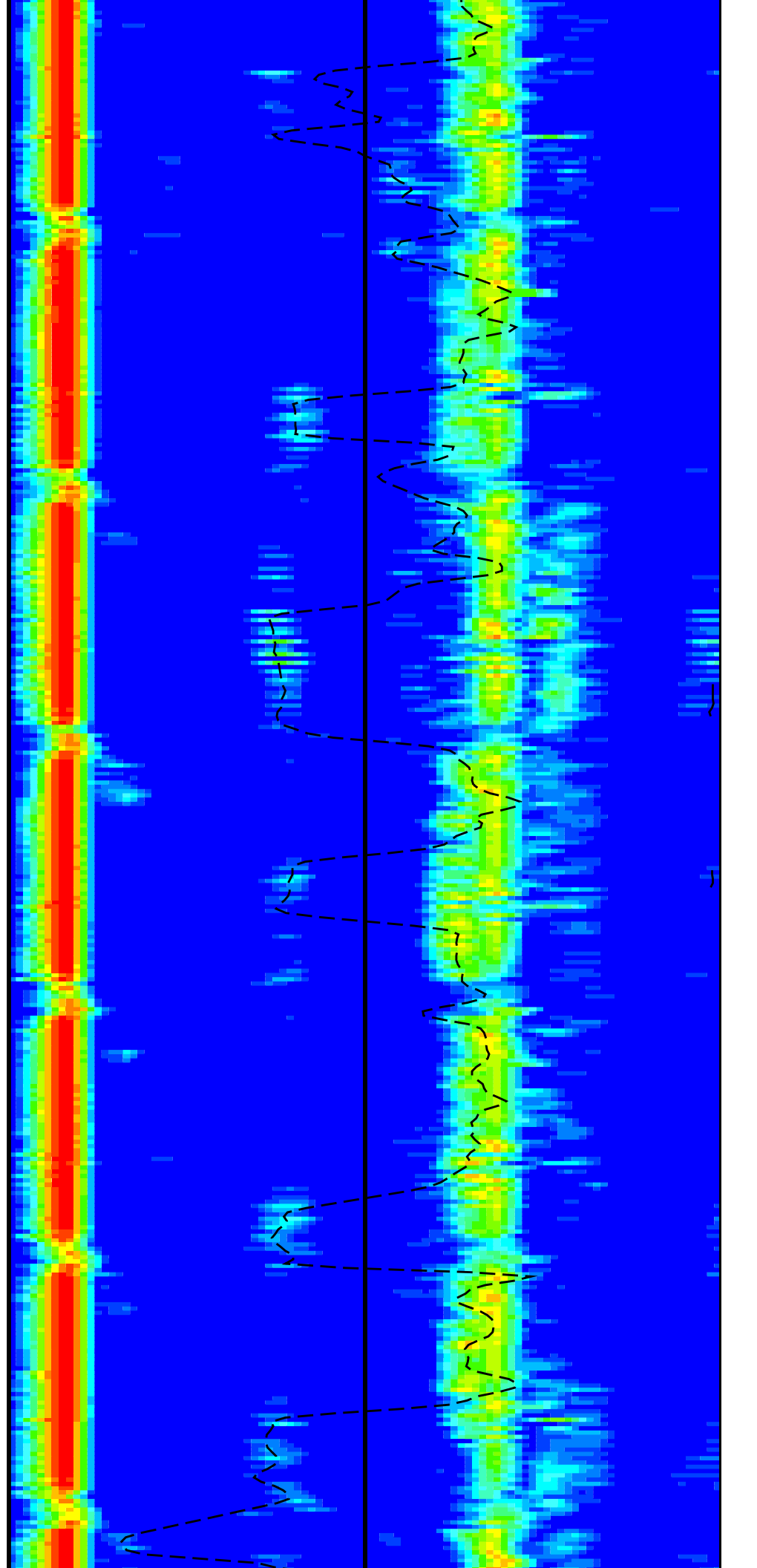
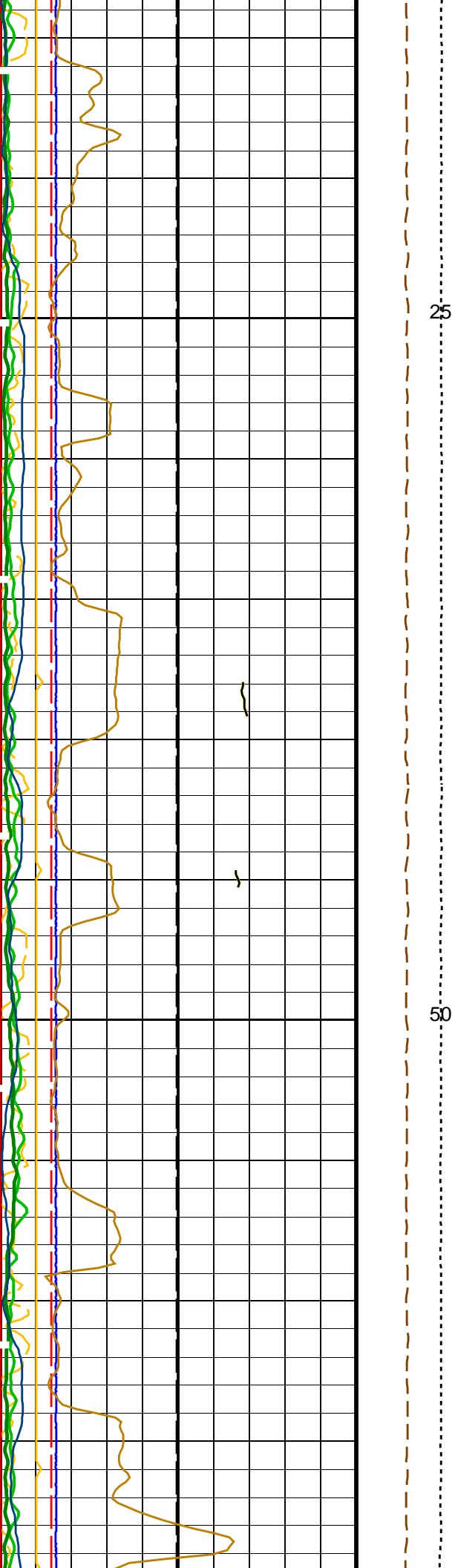
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(-----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(-----)	9

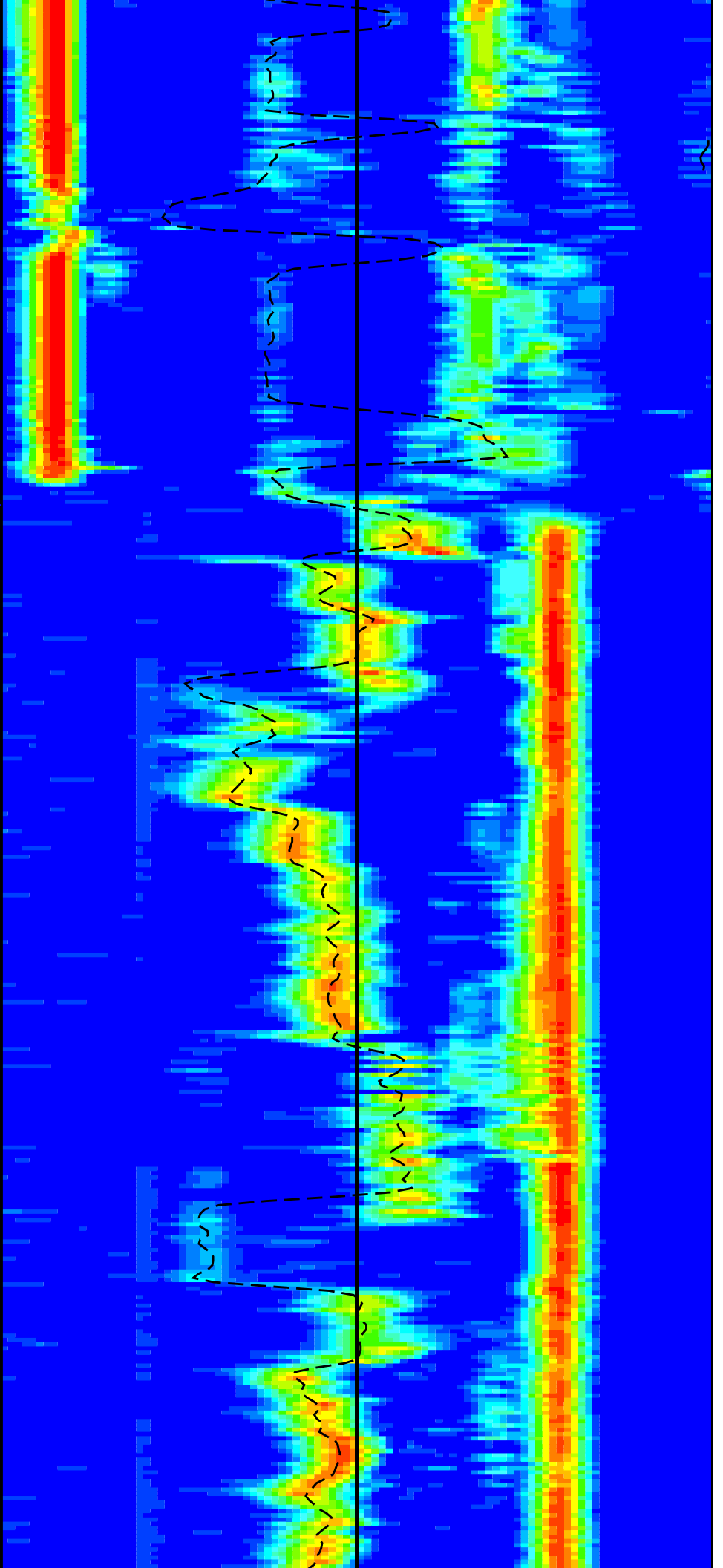
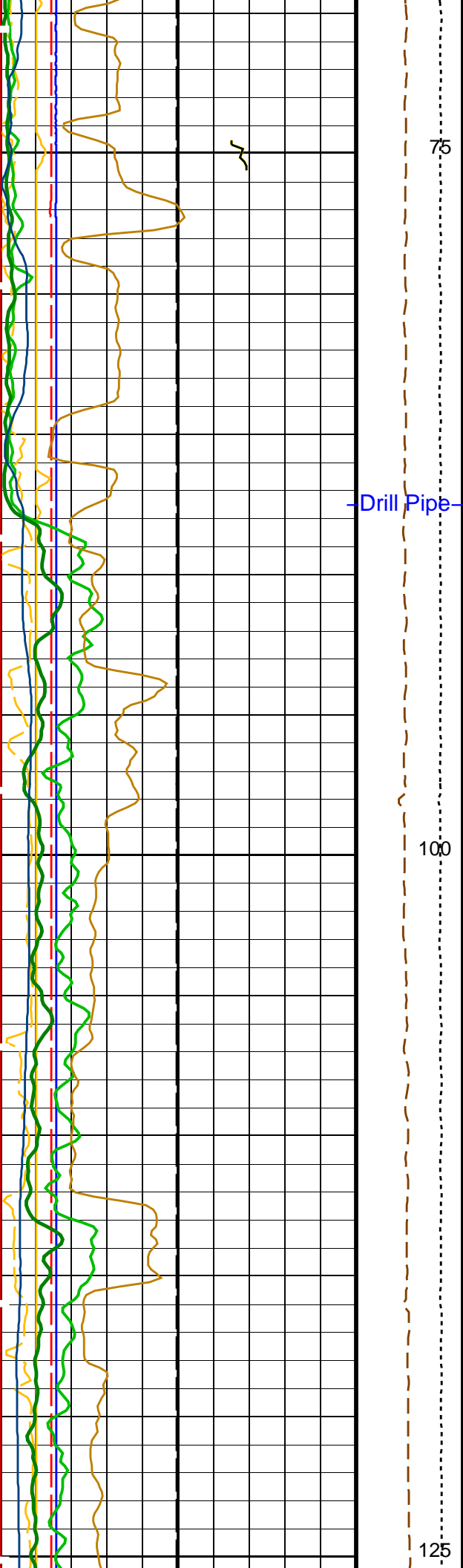
Peak Coherence / RA - P & S Comp (CHRP) (-----)		
0		10
Gamma Ray (GR_EDTC) (GAPI)		
0		100
Poisson's Ratio (PR) (-----)		
0		0.5
Sonic Velocity (SVEL) (M/S)		
1000		6000
Sonde Deviation (SDEVM) (DEG)		
0		10
Poisson's Ratio (PR) (-----)		
0		0.5
Caliper 1 (C1) (IN)		
0		20
Caliper 2 (C2) (IN)		
0		20
Bit Size (BS) (IN)		
0		20

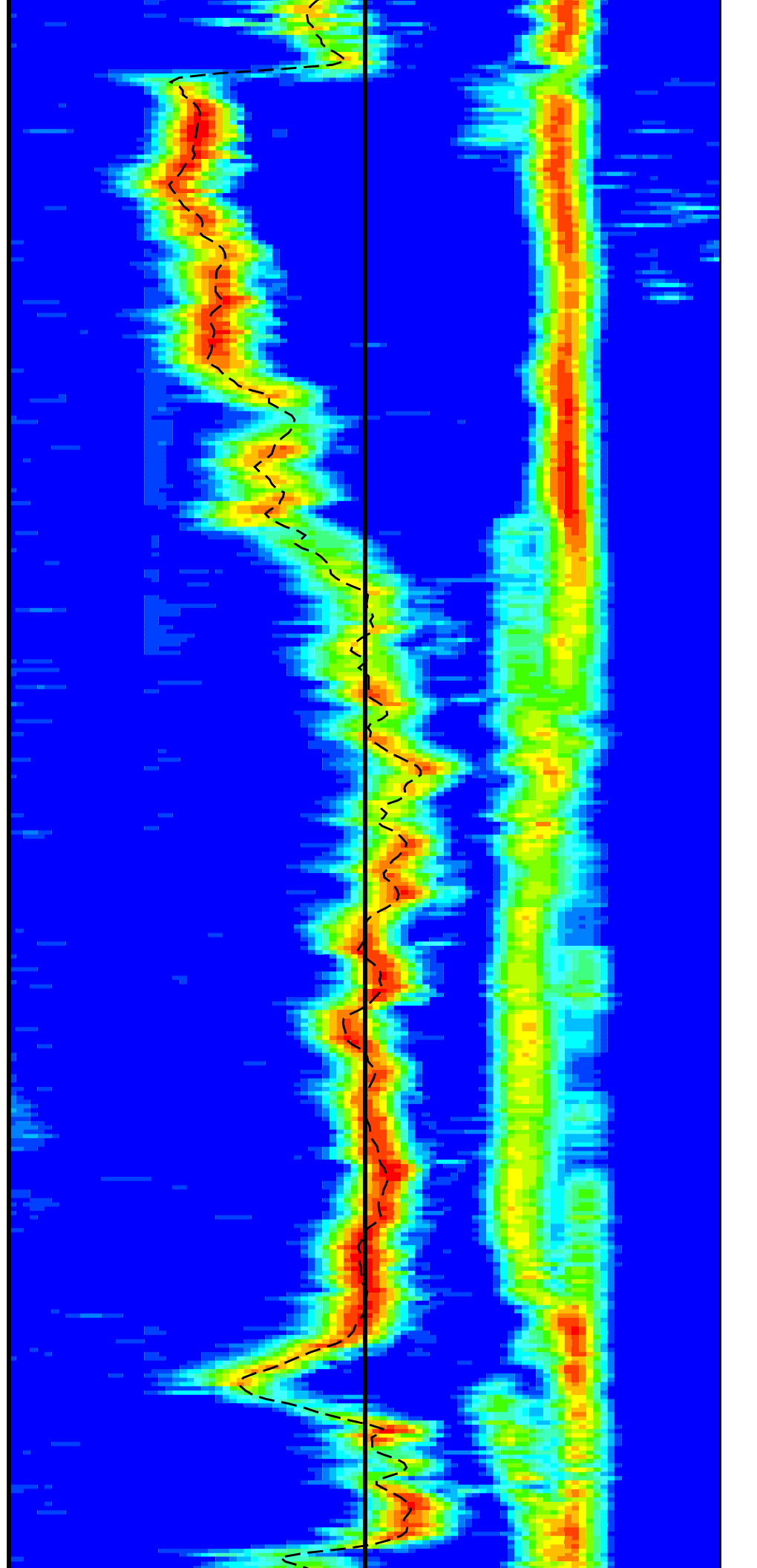
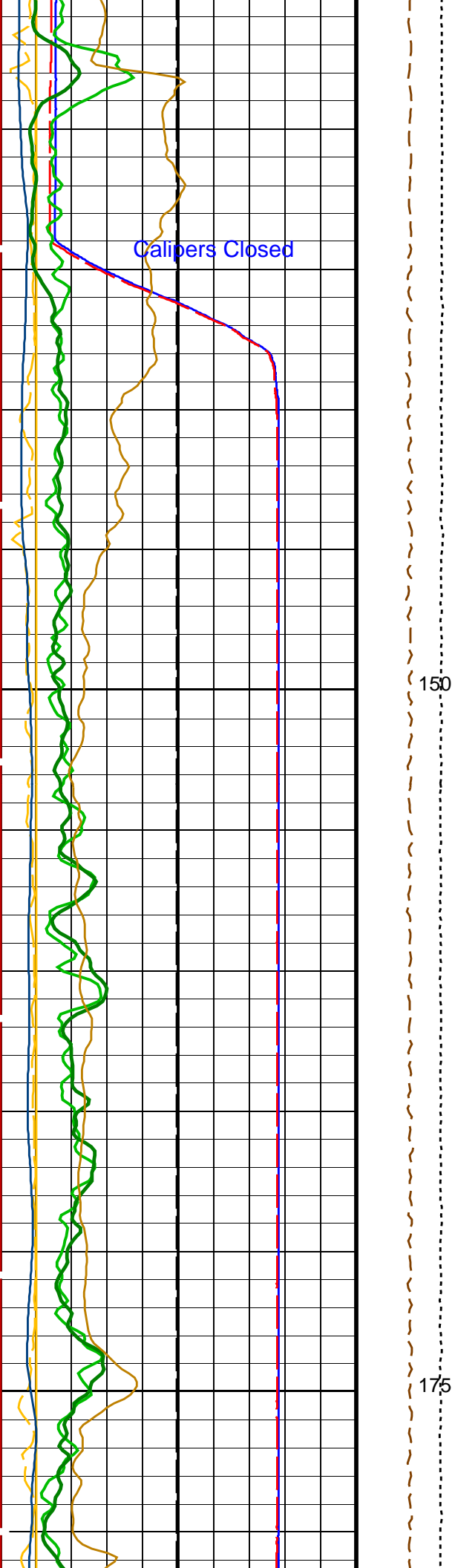
Calibrated Downhole Force (CDF) (LBF)	
3000	0
Tension (TENS) (LBF)	
10000	0

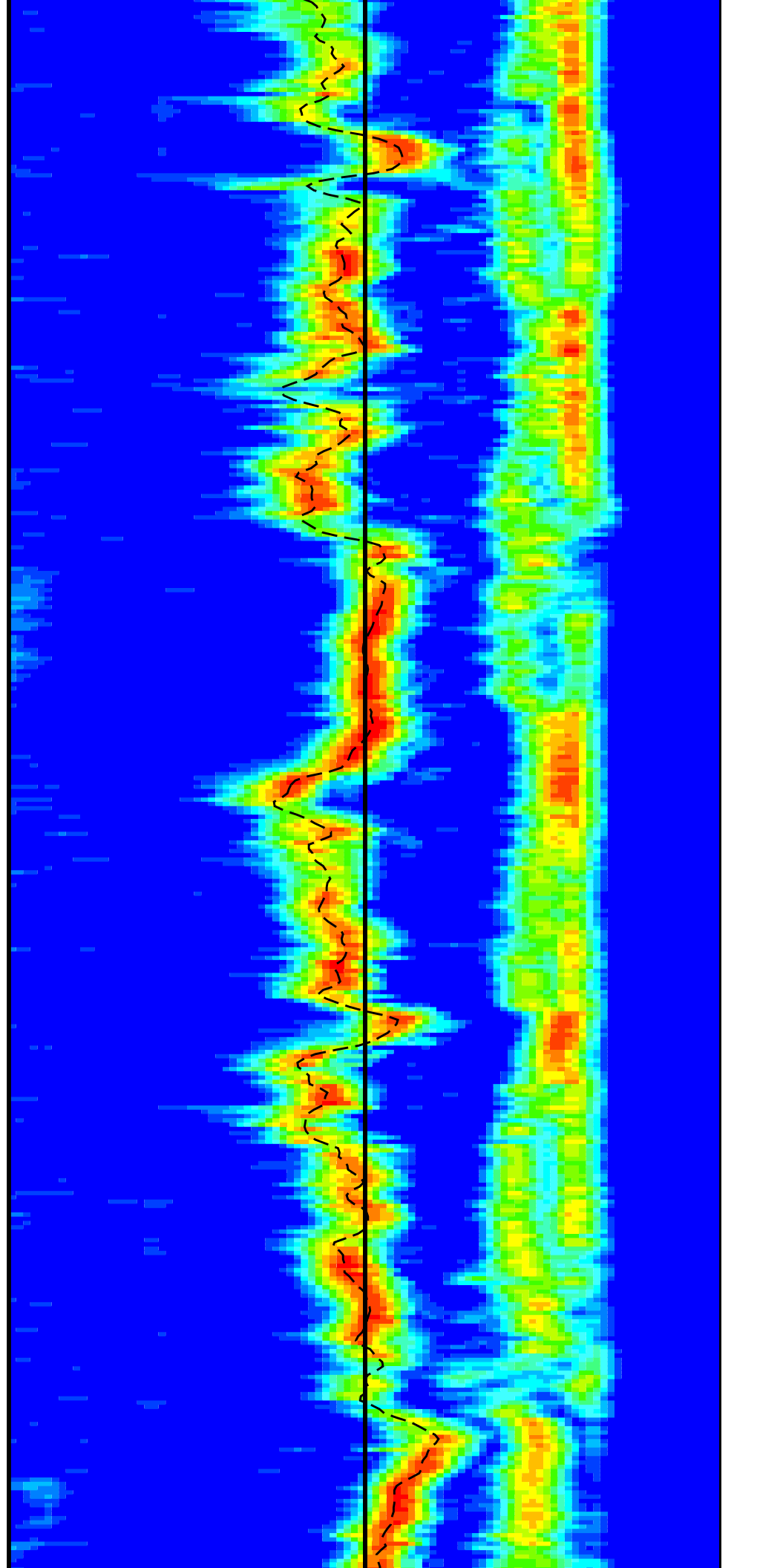
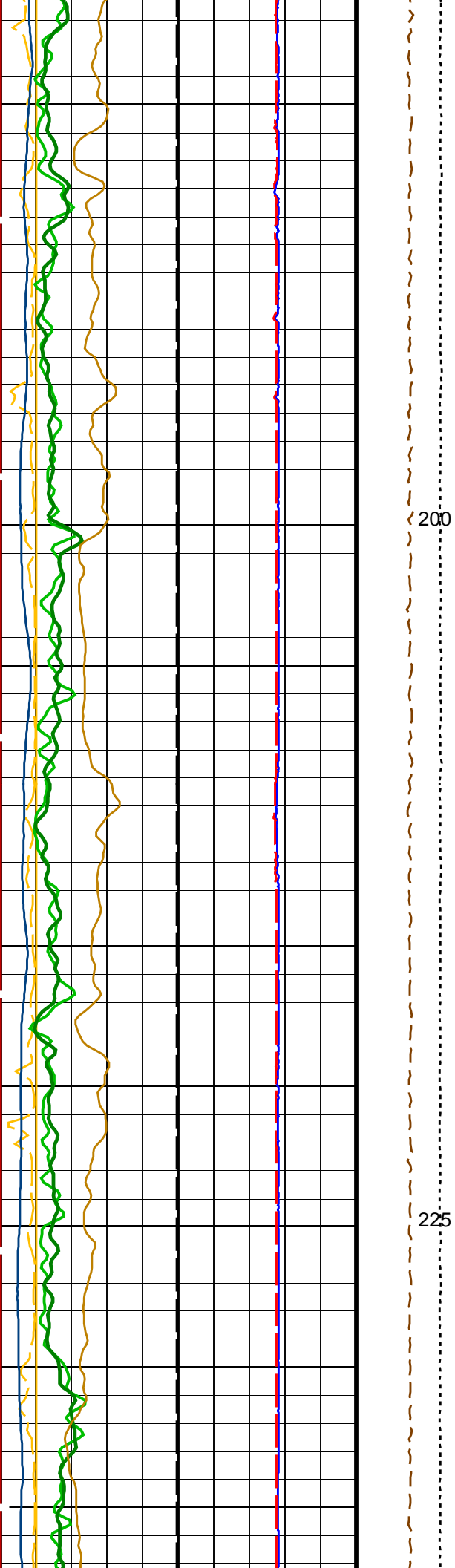
Uplong #2

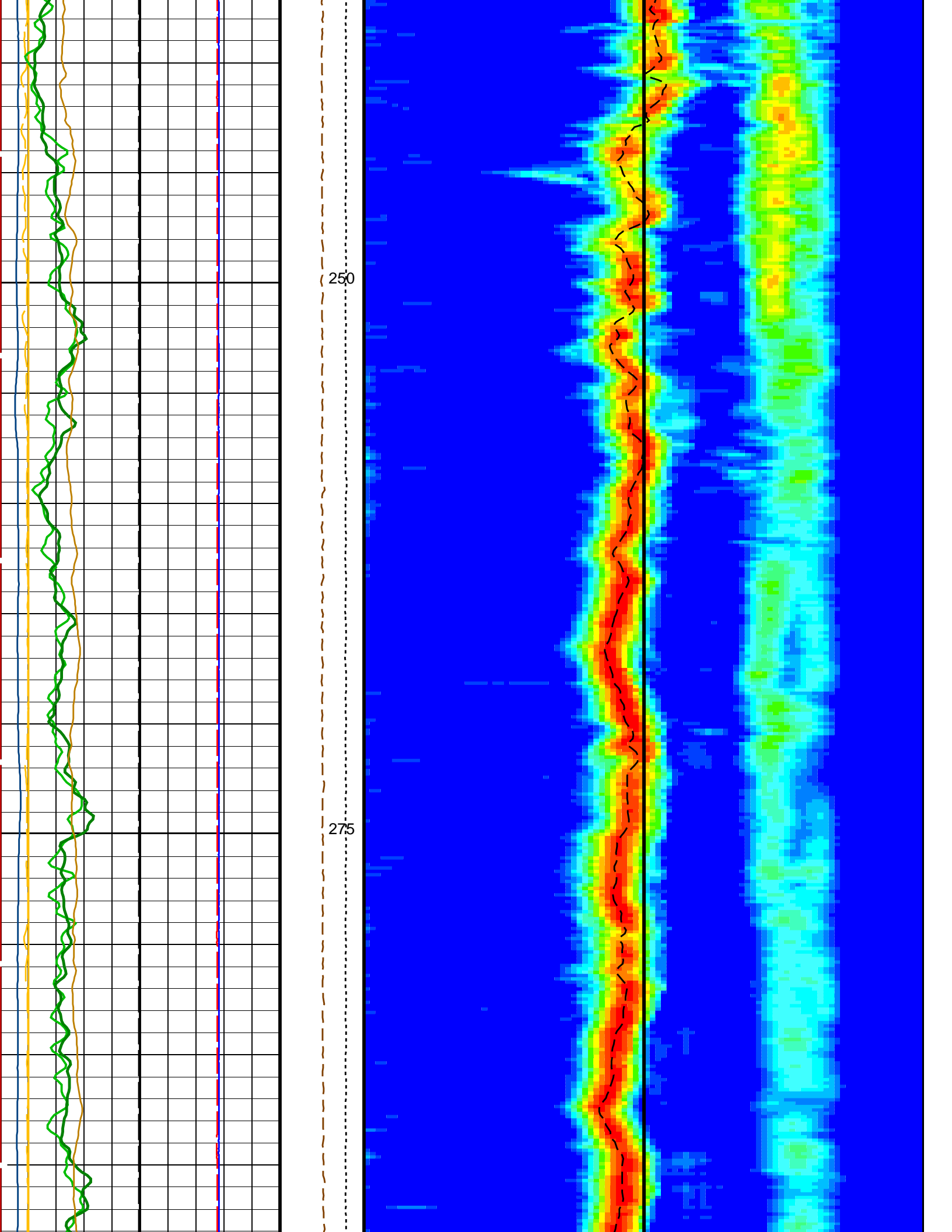


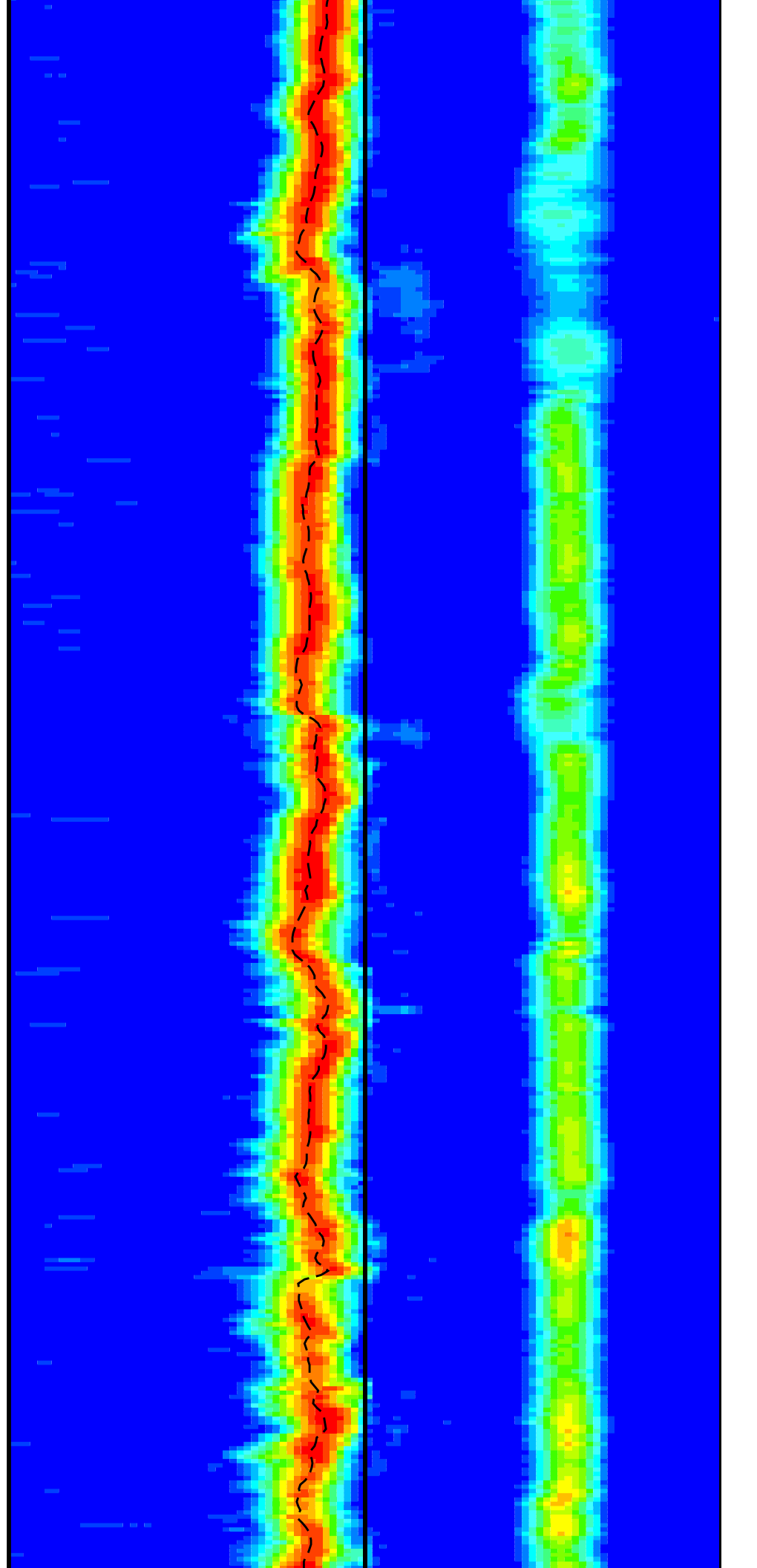
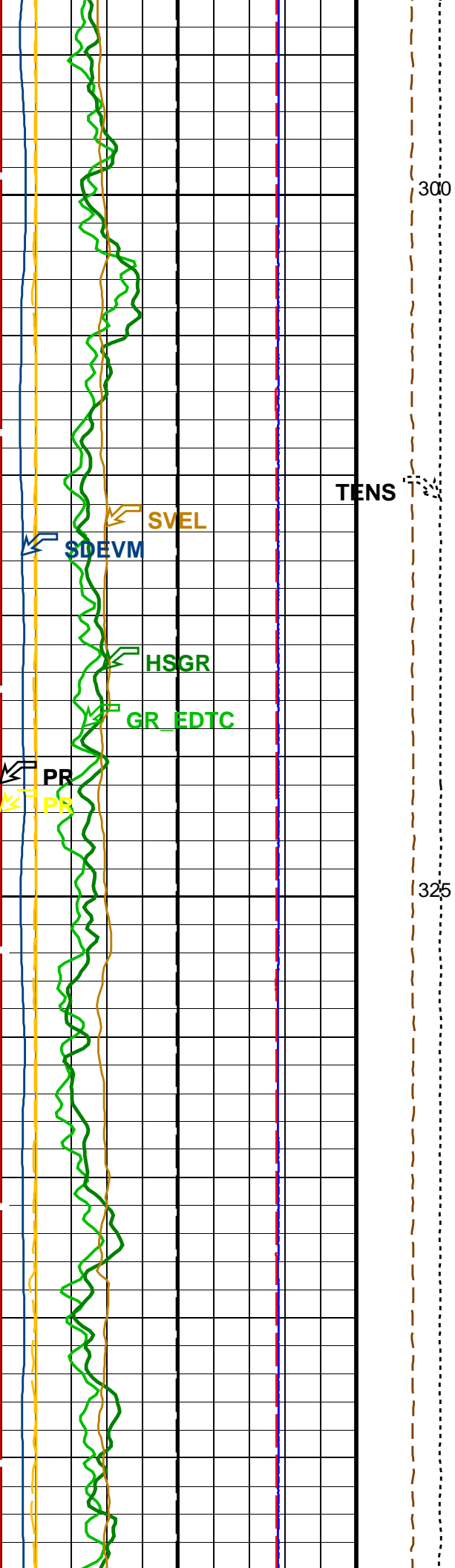


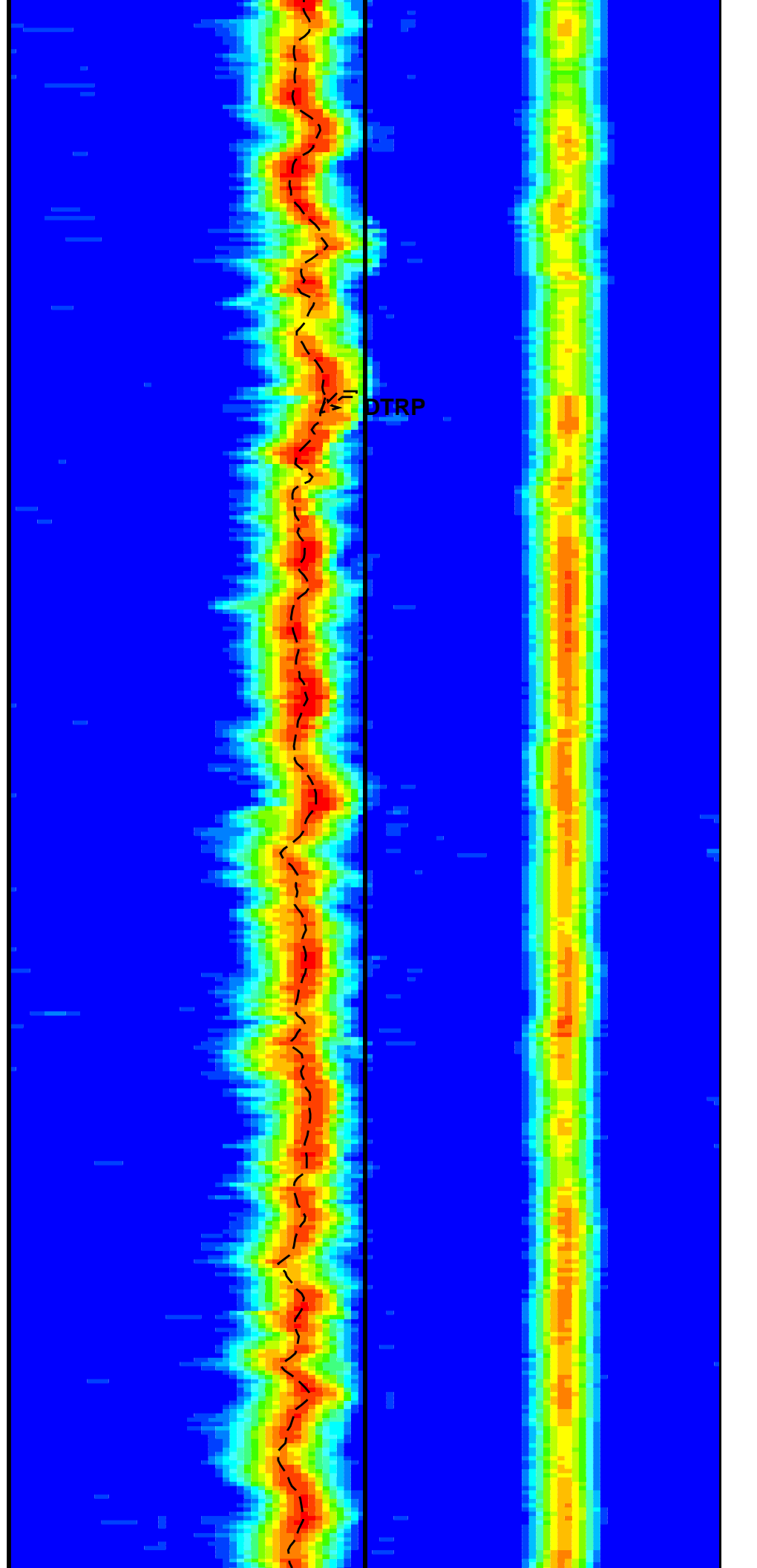
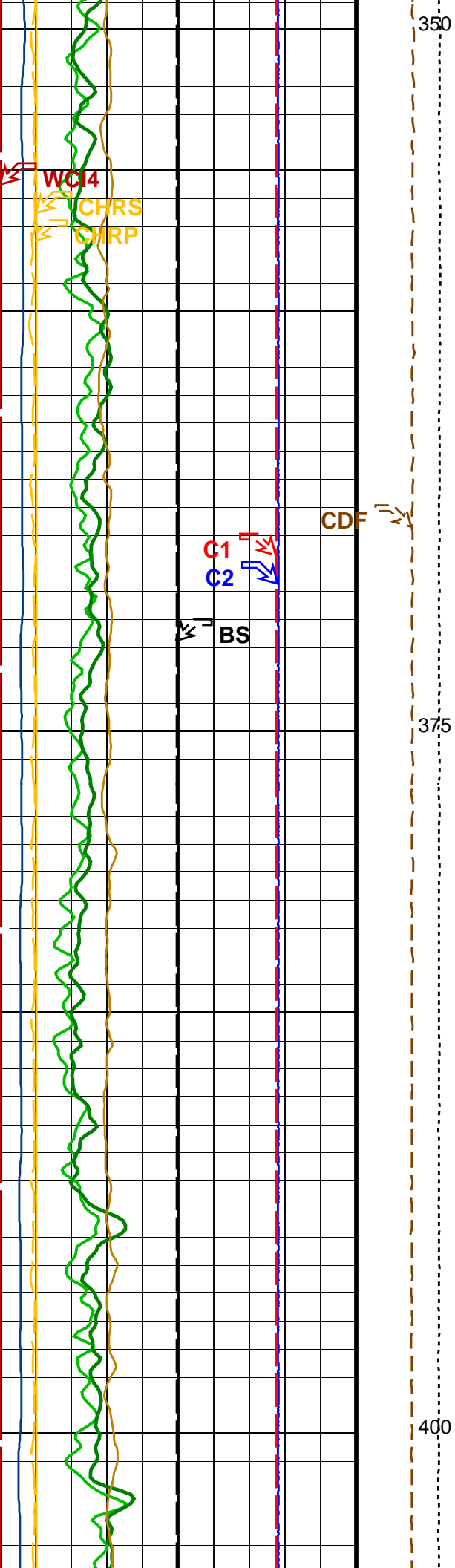


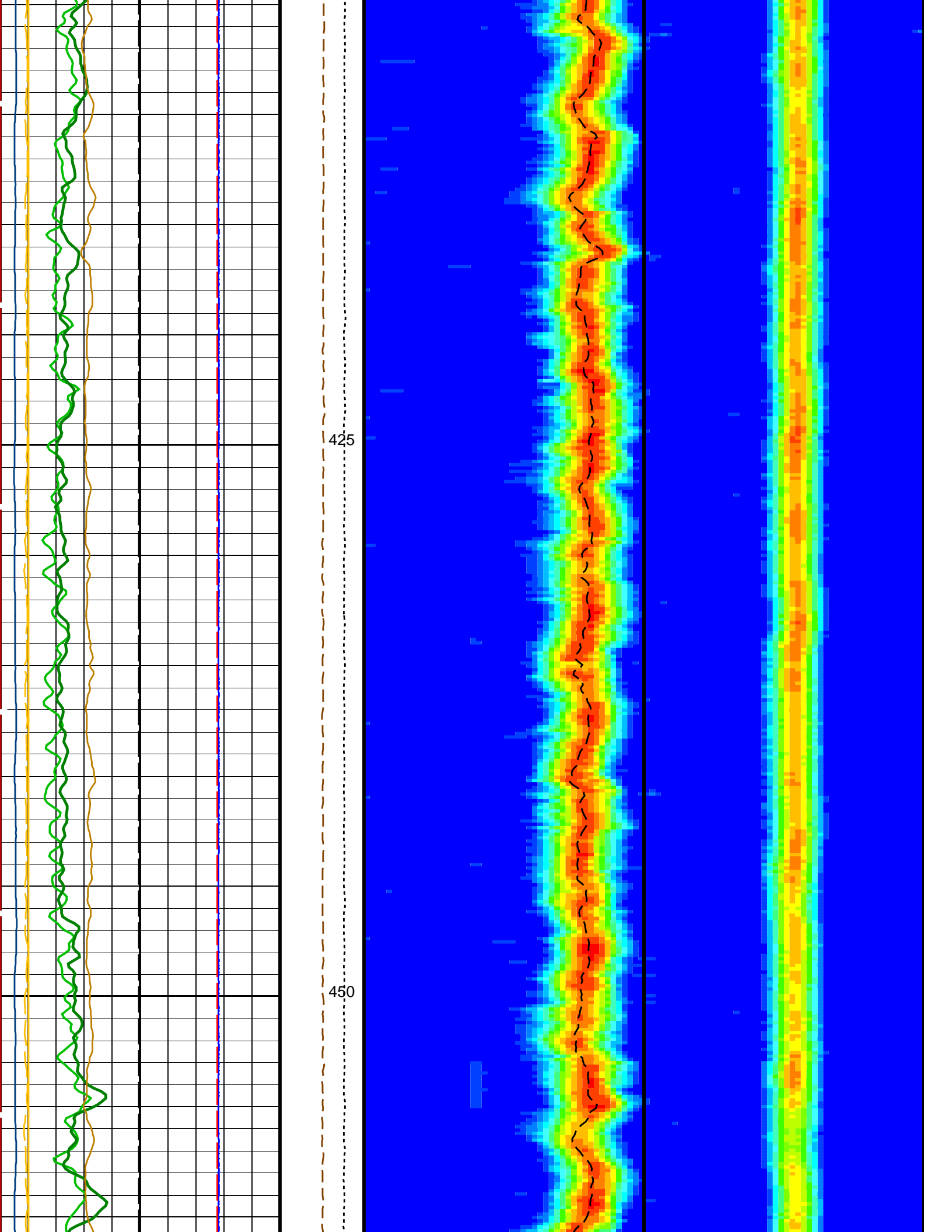


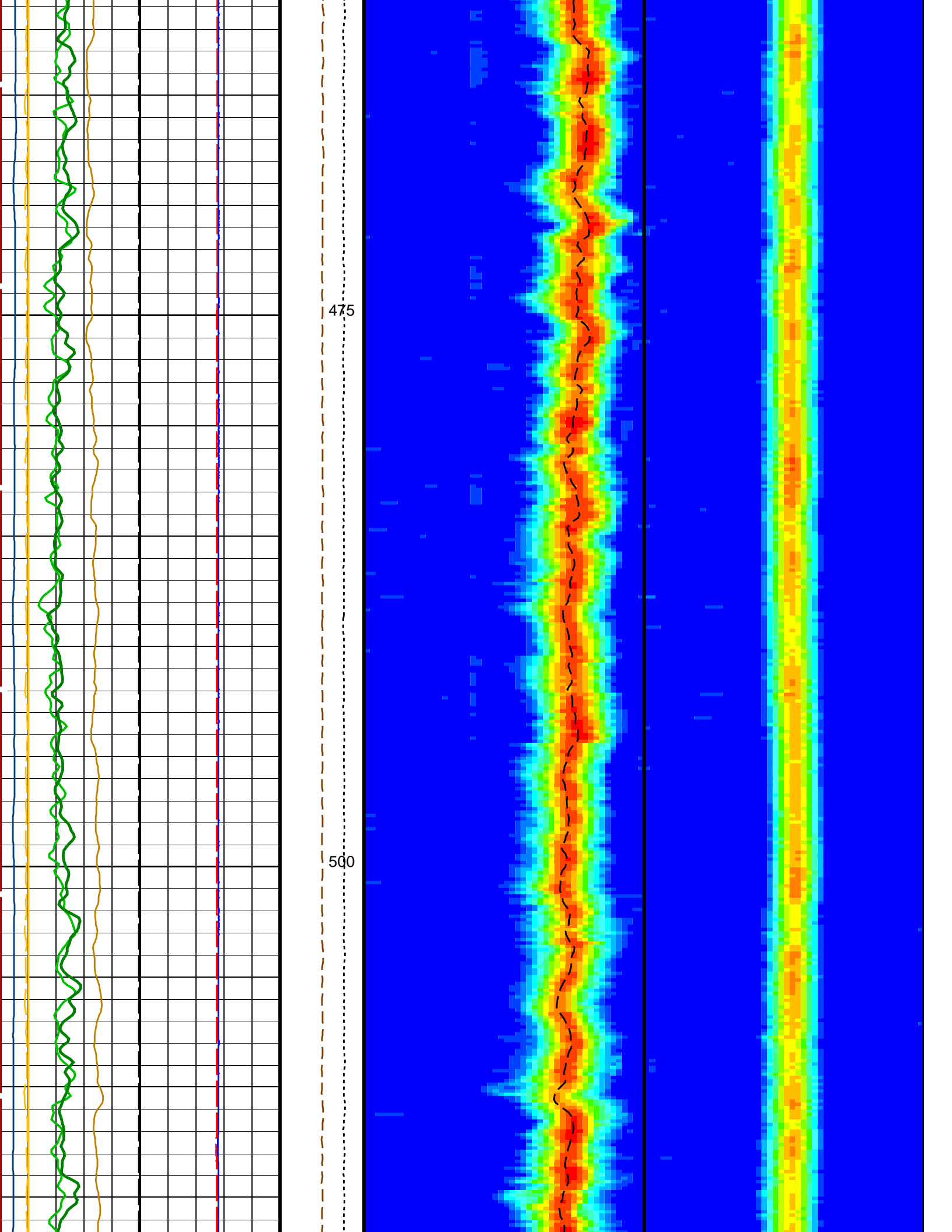


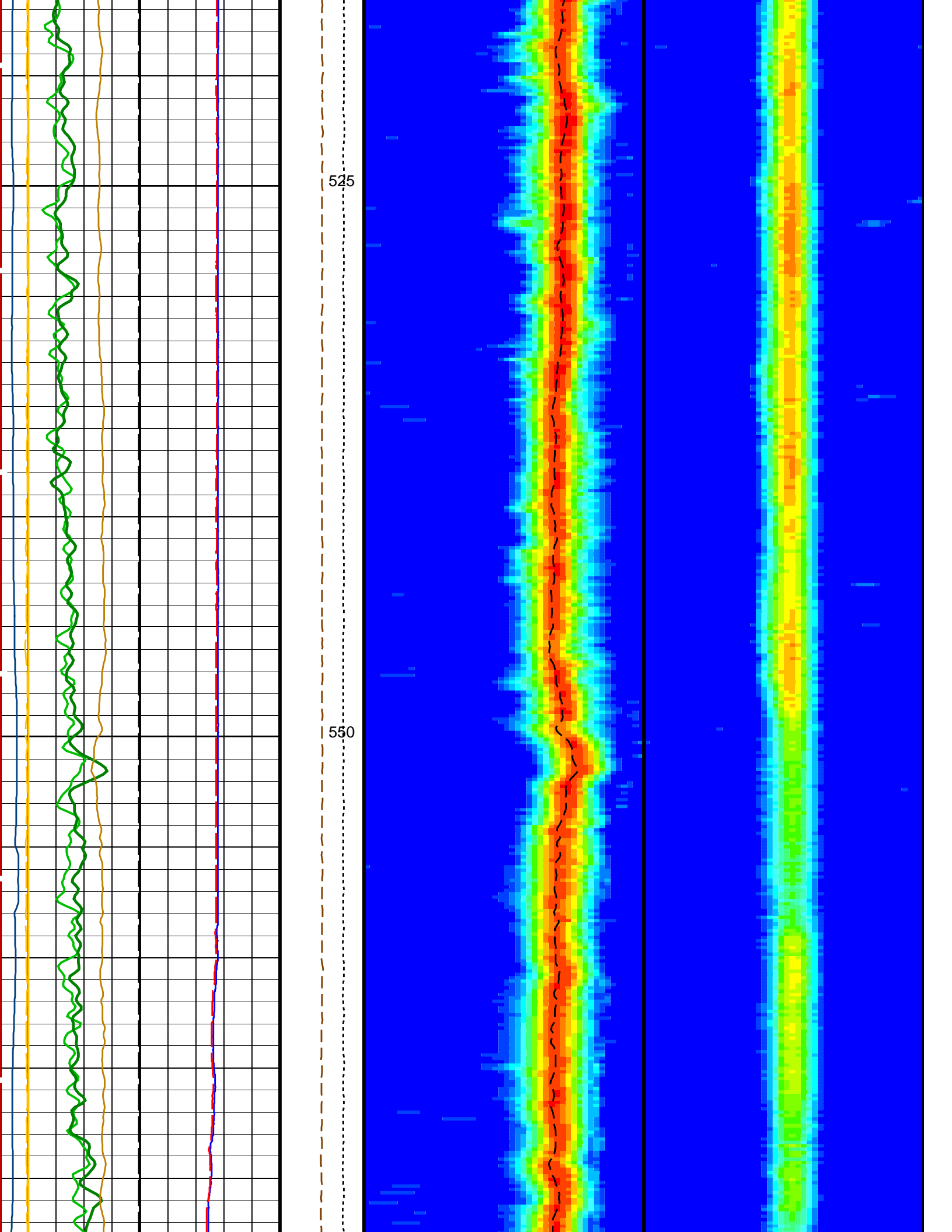


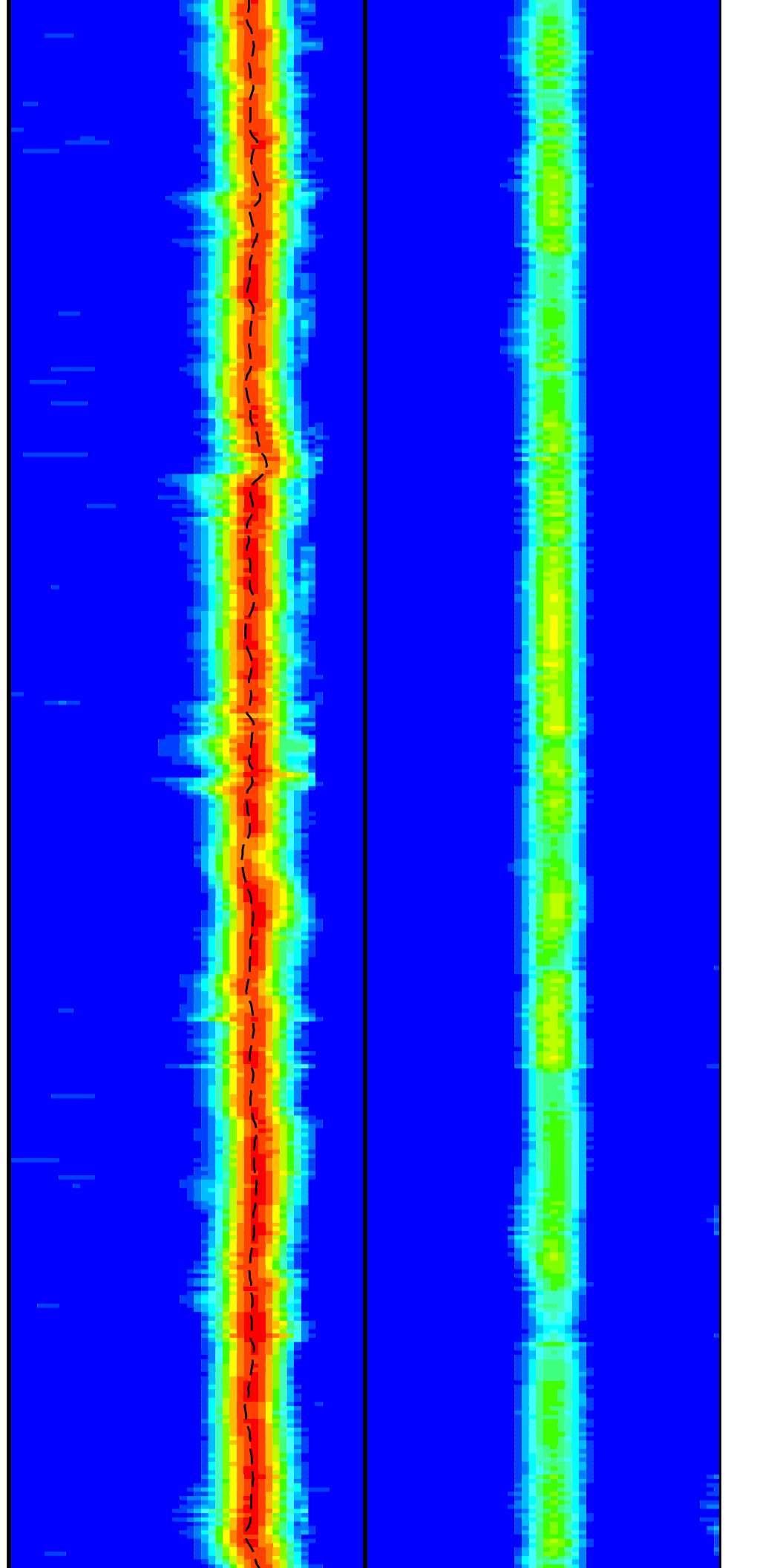
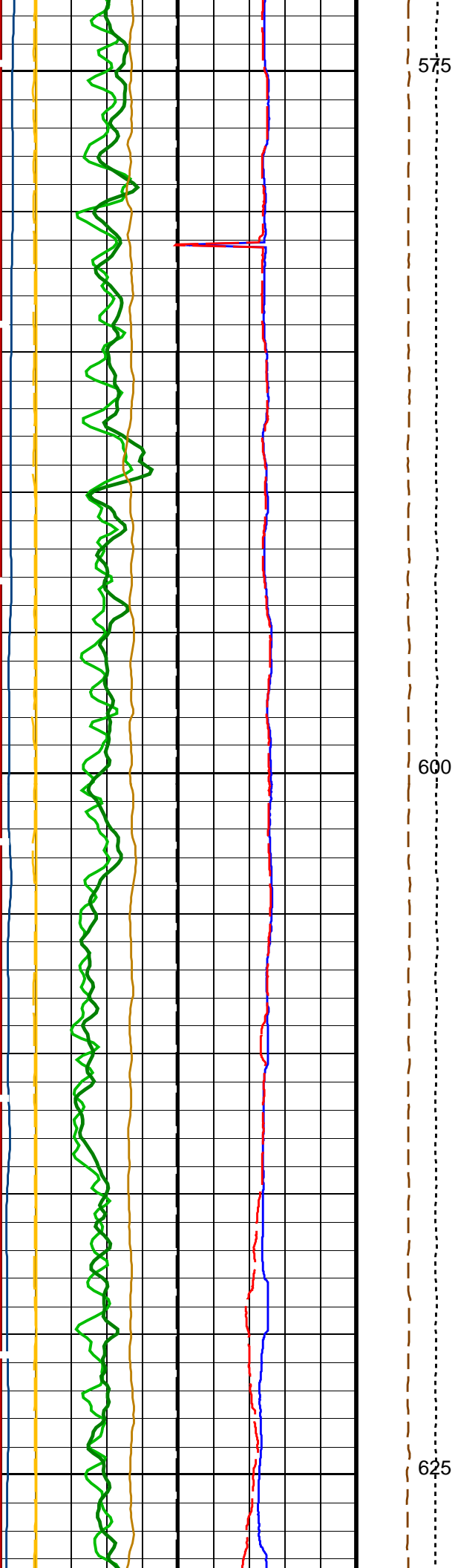


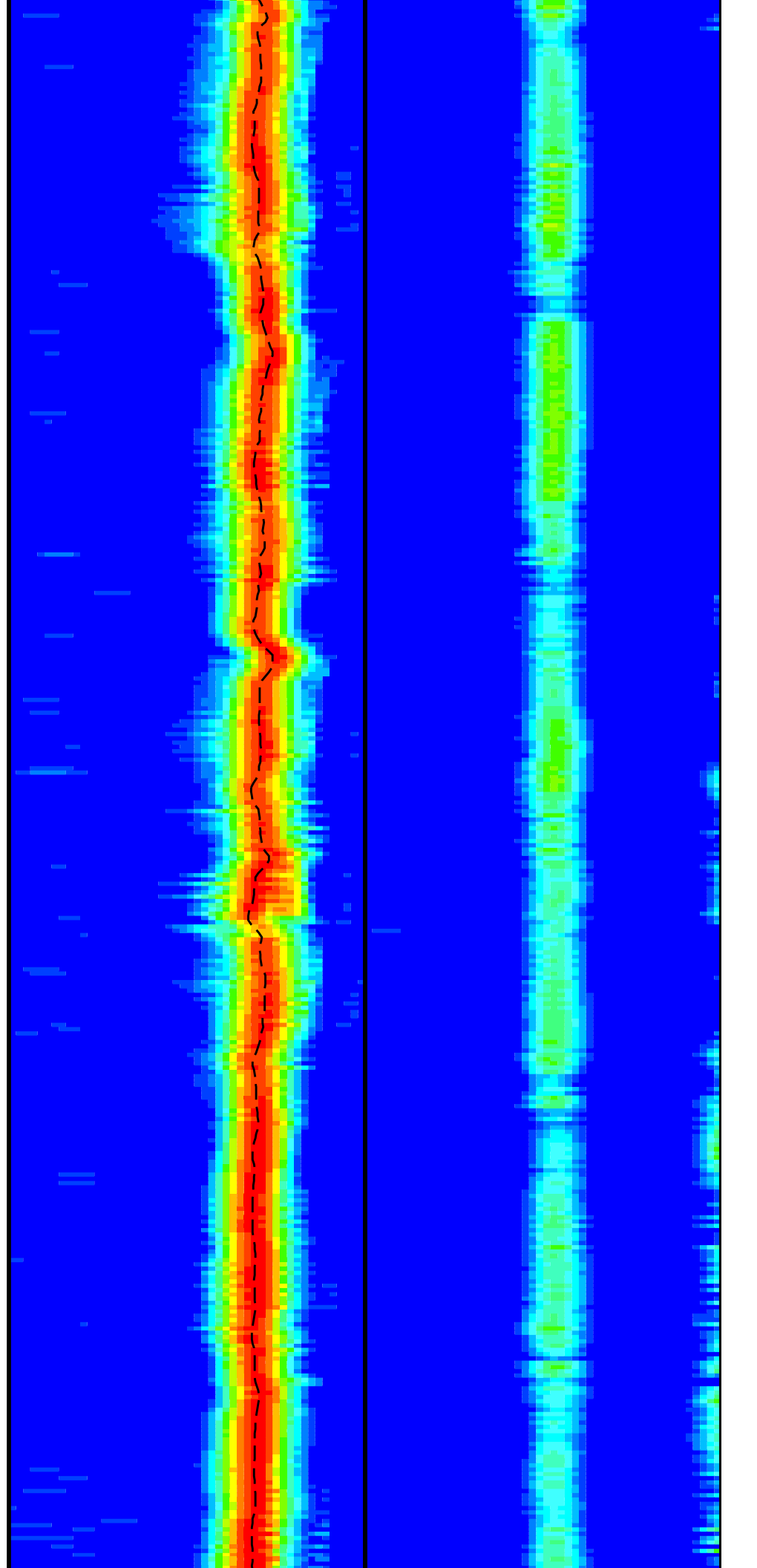
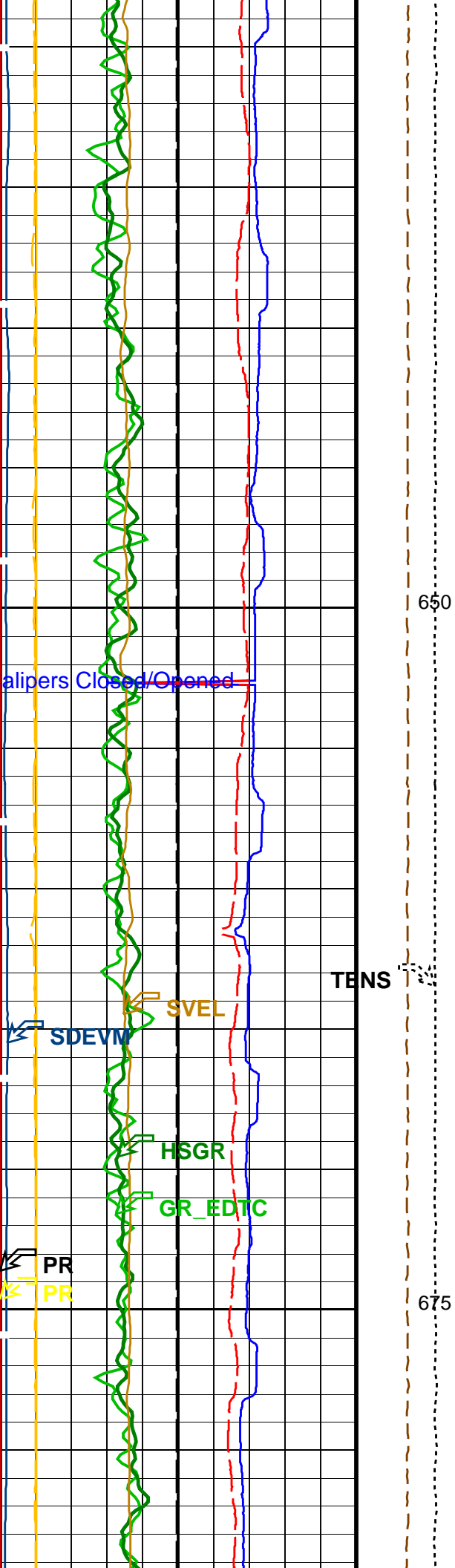


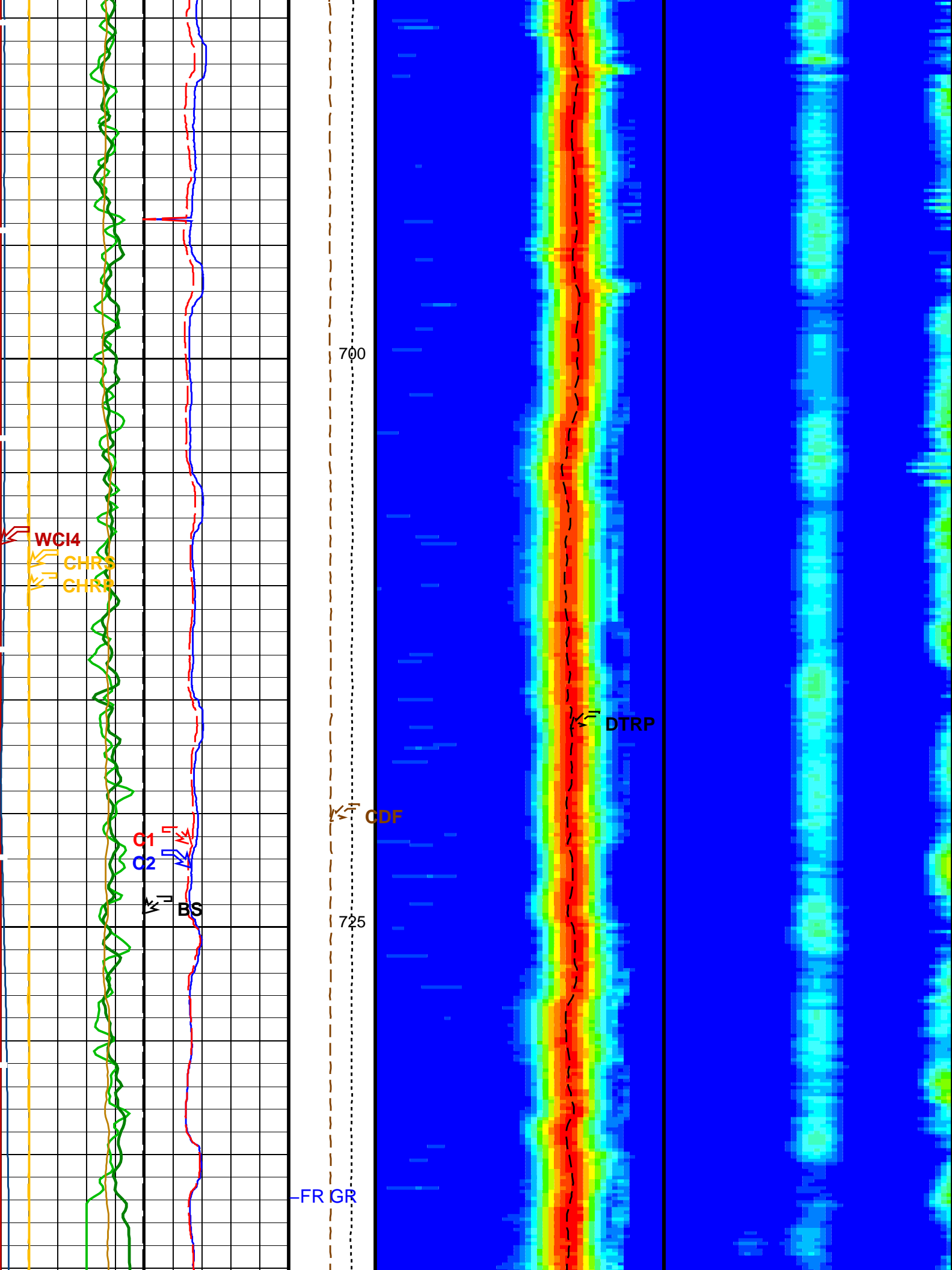


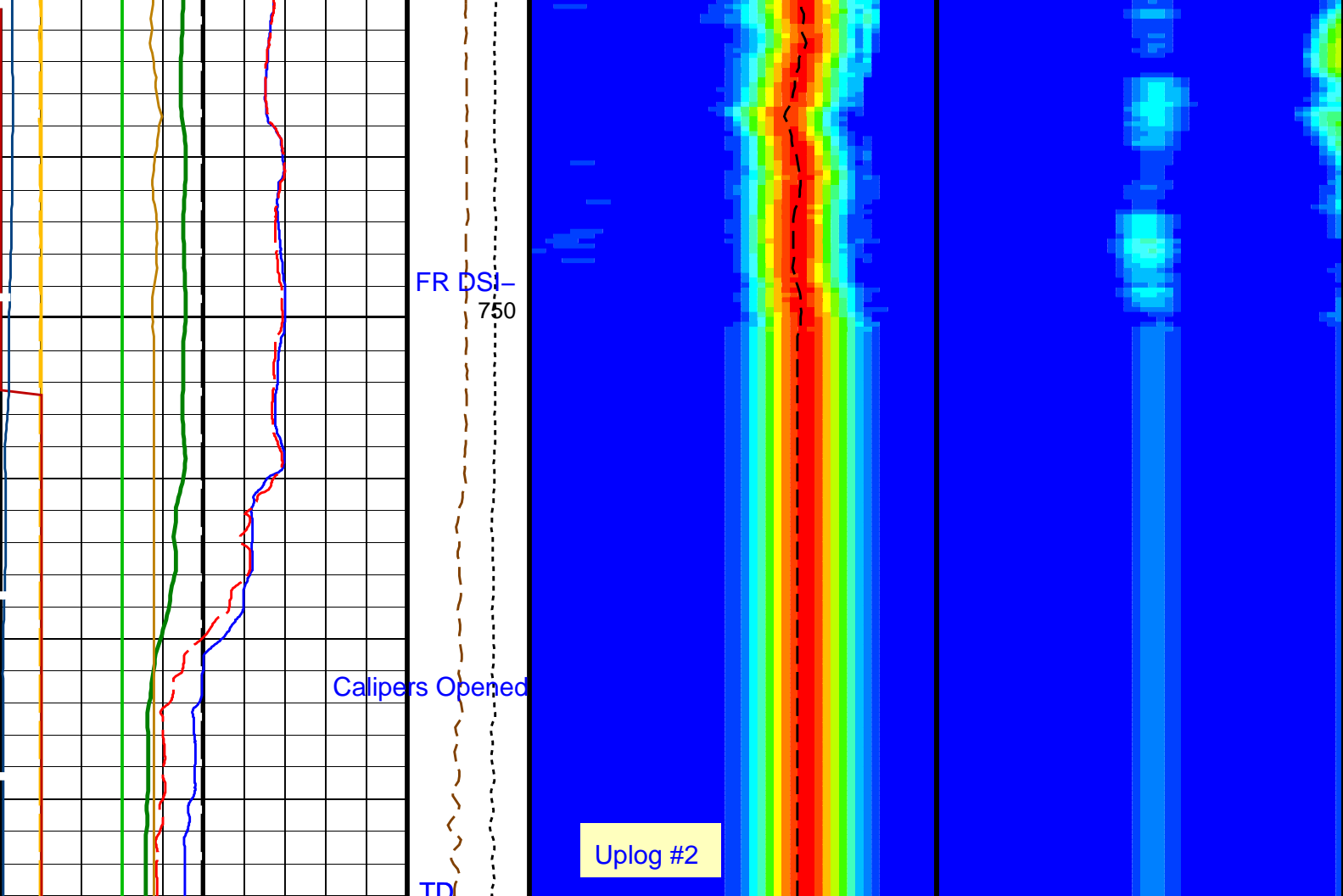












<div>Bit Size (BS) (IN)</div> <div>020</div>	<div>Tension (TENS) (LBF)</div> <div>100000</div>	<div>Delta-T Comp / RA - P & S (DTRP) (US/F)</div> <div>40240</div>
<div>Caliper 2 (C2) (IN)</div> <div>020</div>	<div>Calibrated Downhole Force (CDF) (LBF)</div> <div>30000</div>	<div>Delta-T Shear / RA - P & S (DTRS) (US/F)</div> <div>40240</div>
<div>Caliper 1 (C1) (IN)</div> <div>020</div>		<div>MinMax</div> <div>Amplitude</div> <div>Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F)</div> <div>40240</div>
<div>Poisson's Ratio (PR) (----)</div> <div>00.5</div>		
<div>Sonde Deviation (SDEVM) (DEG)</div> <div>010</div>		
<div>Sonic Velocity (SVEL) (M/S)</div> <div>10006000</div>		
<div>Poisson's Ratio (PR) (----)</div> <div>00.5</div>		
<div>Gamma Ray (GR_EDTC) (GAPI)</div> <div>0100</div>		
<div>Peak Coherence / RA - P & S Comp (CHRP) (----)</div> <div>010</div>		
<div>Peak Coherence / RA - P & S Shear (CHRS) (----)</div> <div>010</div>		

Peak Conference / RA - P & S Shear (CHRS)		
-1	(----	9
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner – B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	0.99795	DEG
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	70	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	190	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
DTC5	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	195	US/F
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	

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	-0.00300711	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.11669	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.972617	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-97.5	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_Only Vertical Scale: 1:200 Graphics File Created: 18-Sep-2015 17:04

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_028LUP	FN:43	PRODUCER	11-Sep-2015 18:52	866.4 M	82.9 M
---------	--------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:66	PRODUCER	18-Sep-2015 17:04		
---------	--------------------	-------	----------	-------------------	--	--

Company: International Ocean Discovery Program Well: Expedition 356, Site U1462 C

Input DLIS Files

DEFAULT	FMS_DSI_NGS_028LUP	FN:43	PRODUCER	11-Sep-2015 18:52	866.4 M	82.9 M
---------	--------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:66	PRODUCER	18-Sep-2015 17:04	768.1 M	-14.5 M
---------	--------------------	-------	----------	-------------------	---------	---------

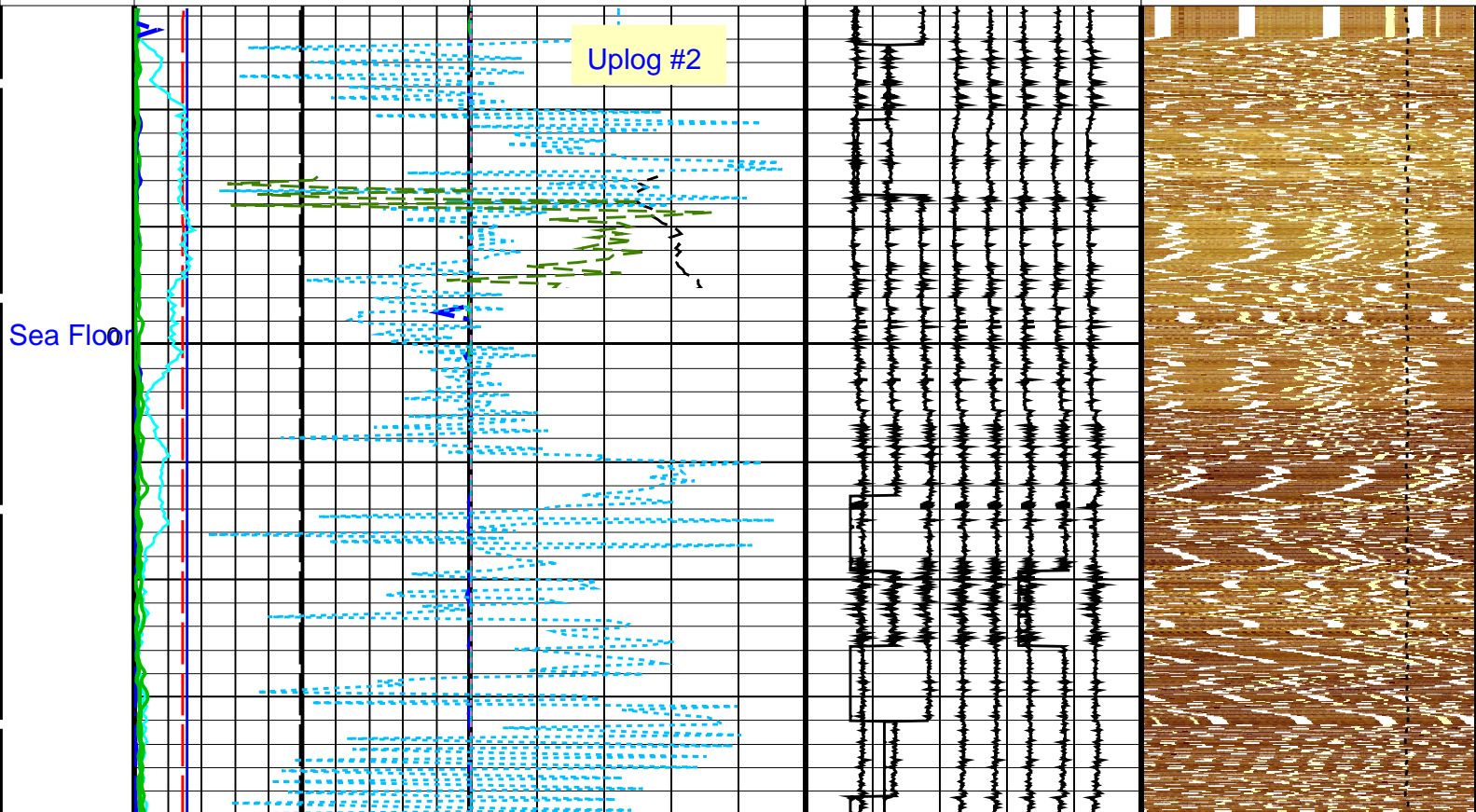
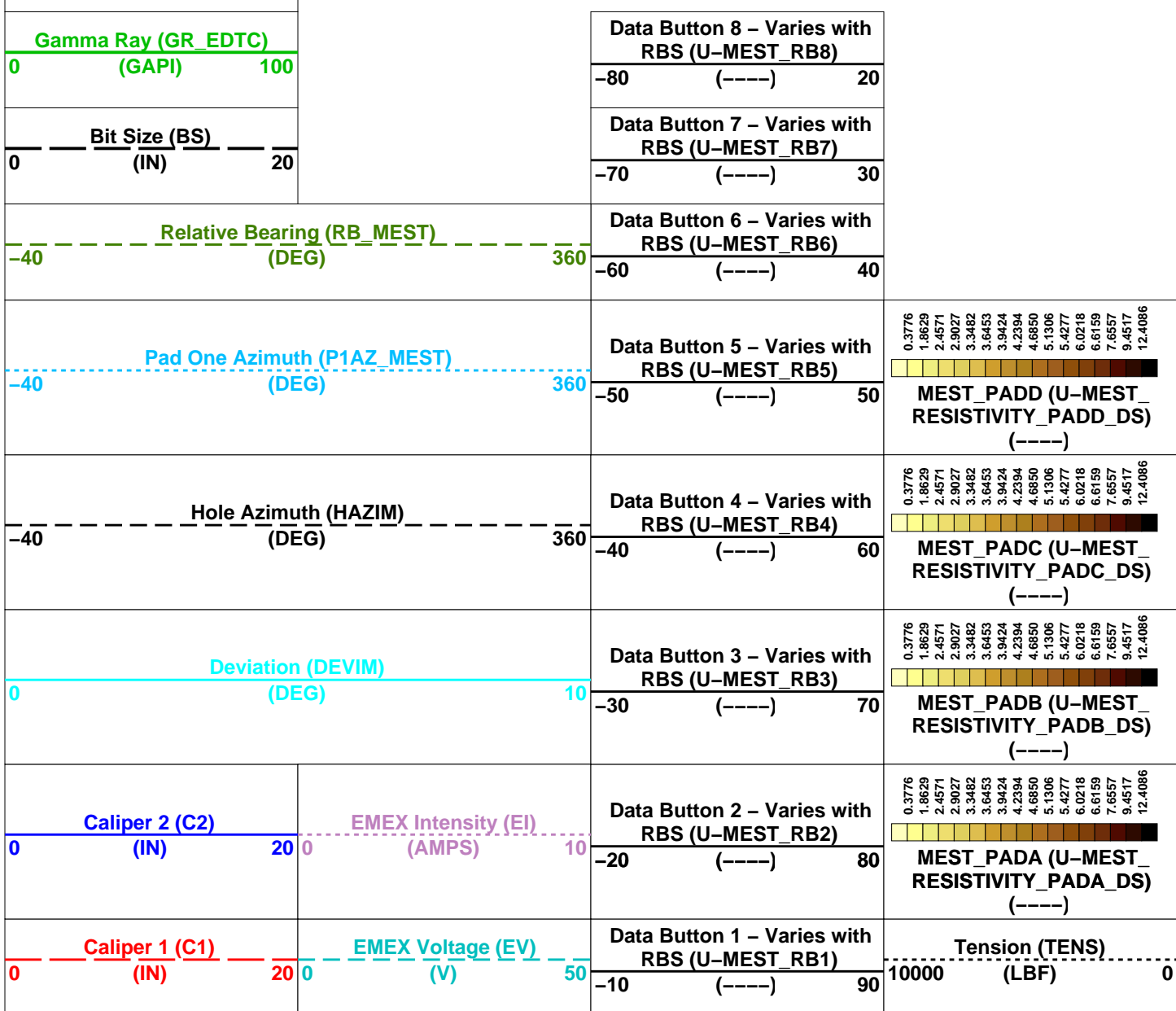
OP System Version: 19C0-187

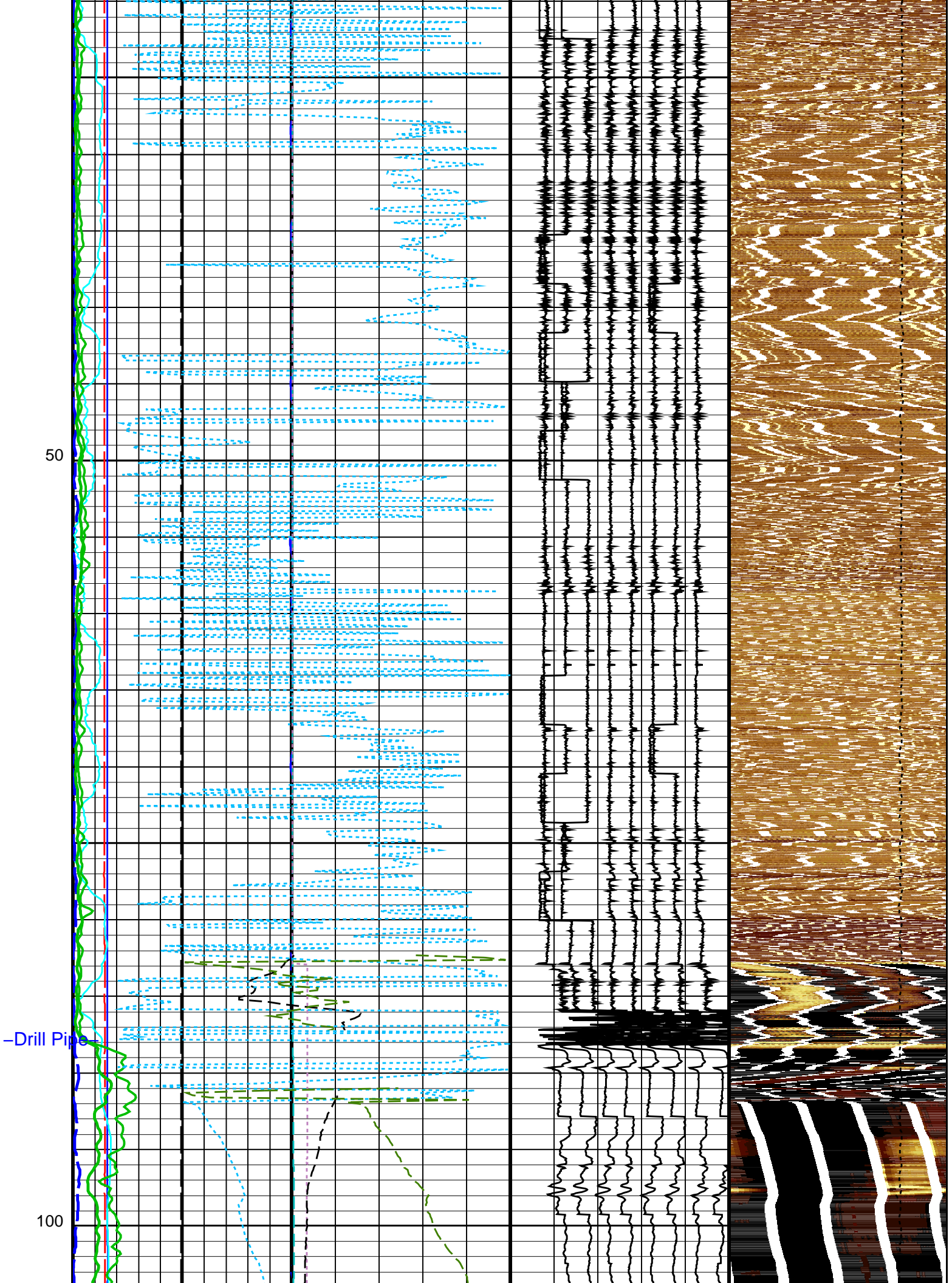
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

☒ Time Mark Every 60 S

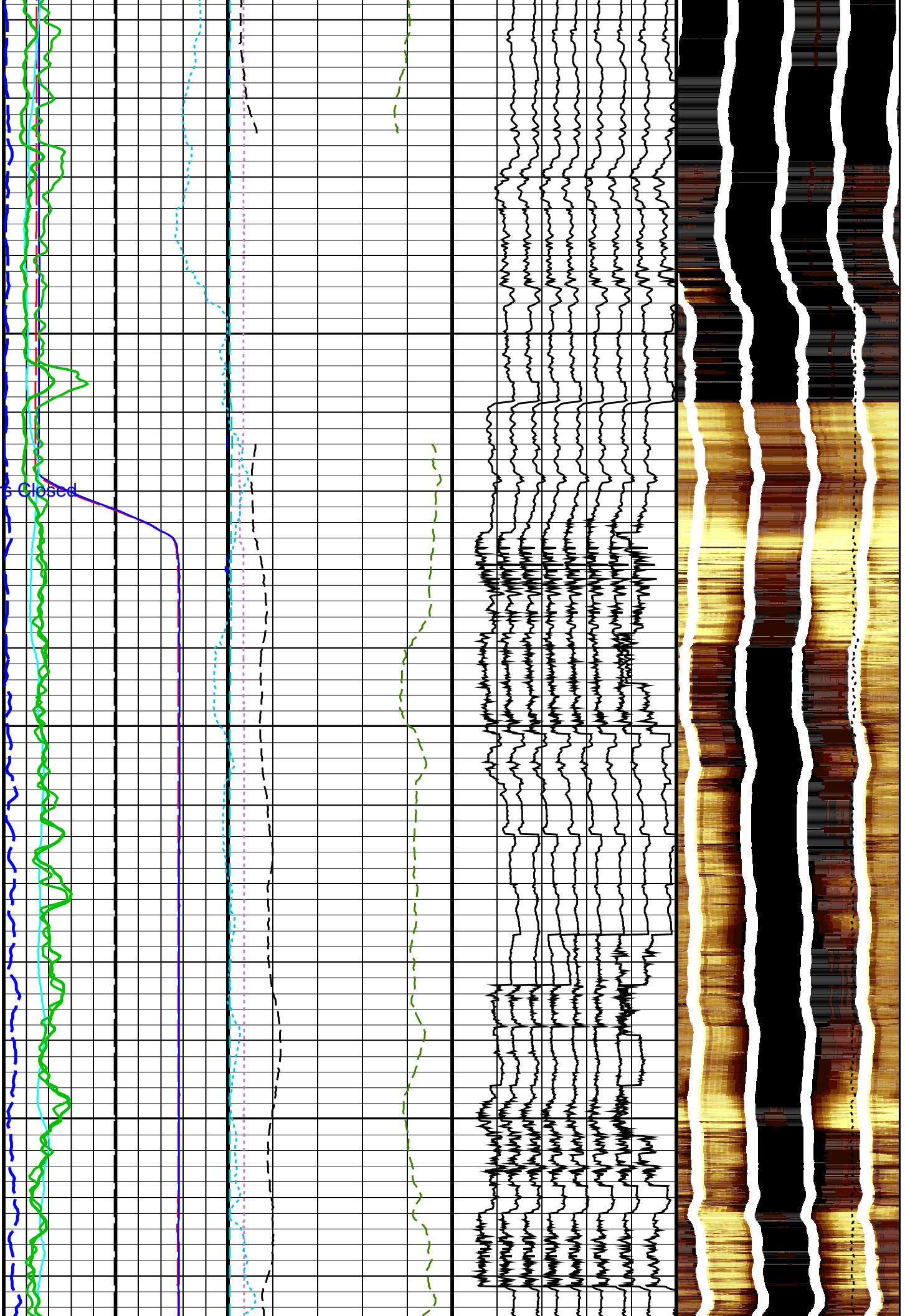
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
HNGS Computed Gamma Ray (HCGR)		
0	(GAPI)	100





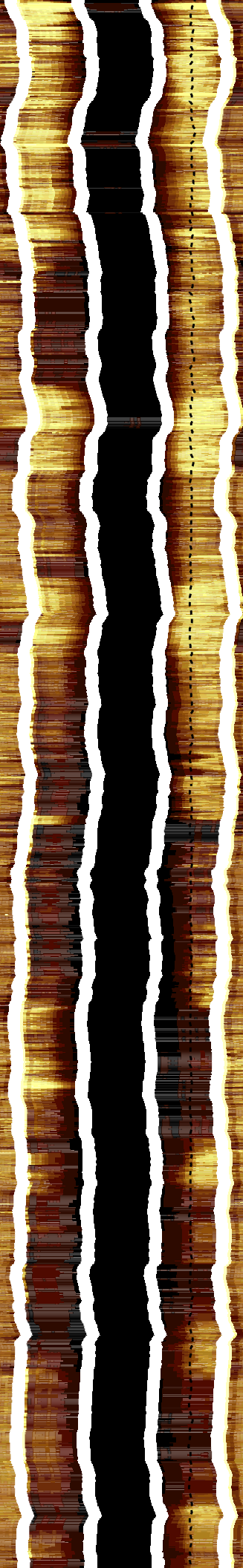
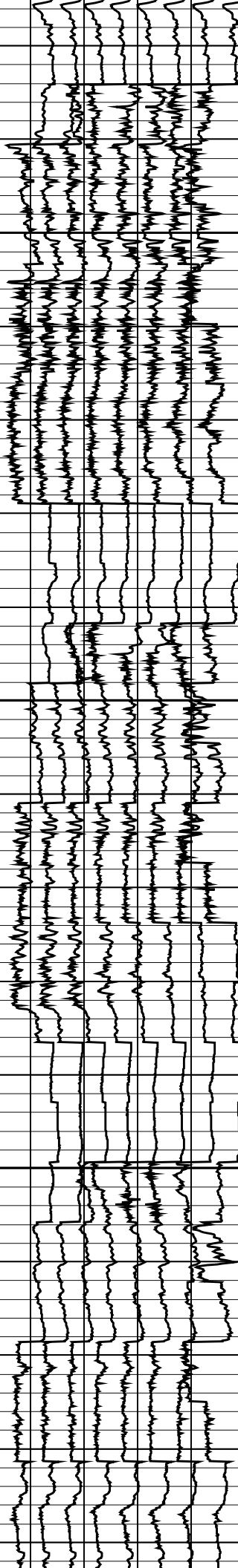
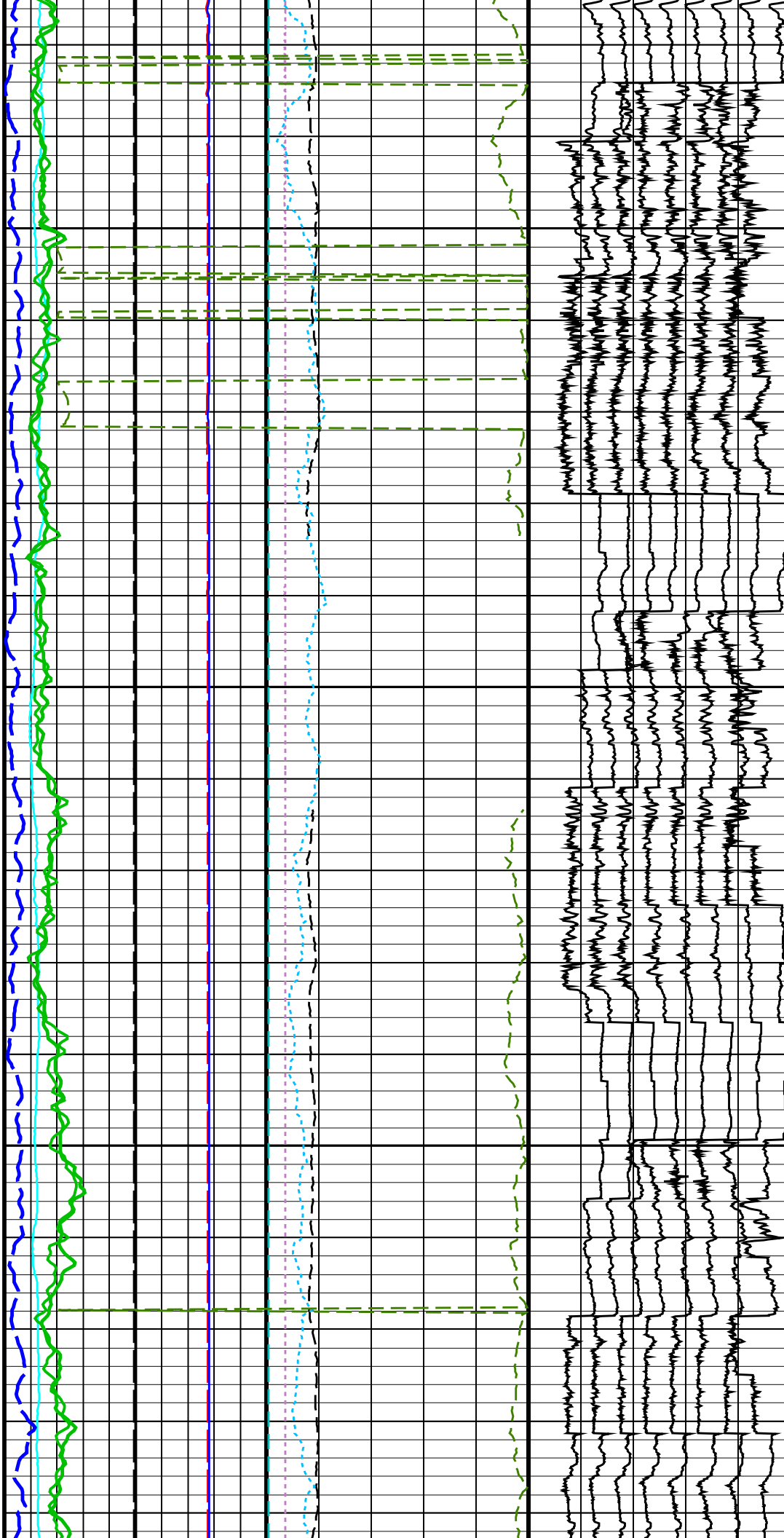
Calipers Closed

150



200

250



300

350

HSGR

P1AZ_MEST

RB_MEST

PadD wrapped by P1AZ

PadC wrapped by P1AZ

PadB wrapped by P1AZ

PadA wrapped by P1AZ

U-MEST RB8

U-MEST RB7

U-MEST RB6

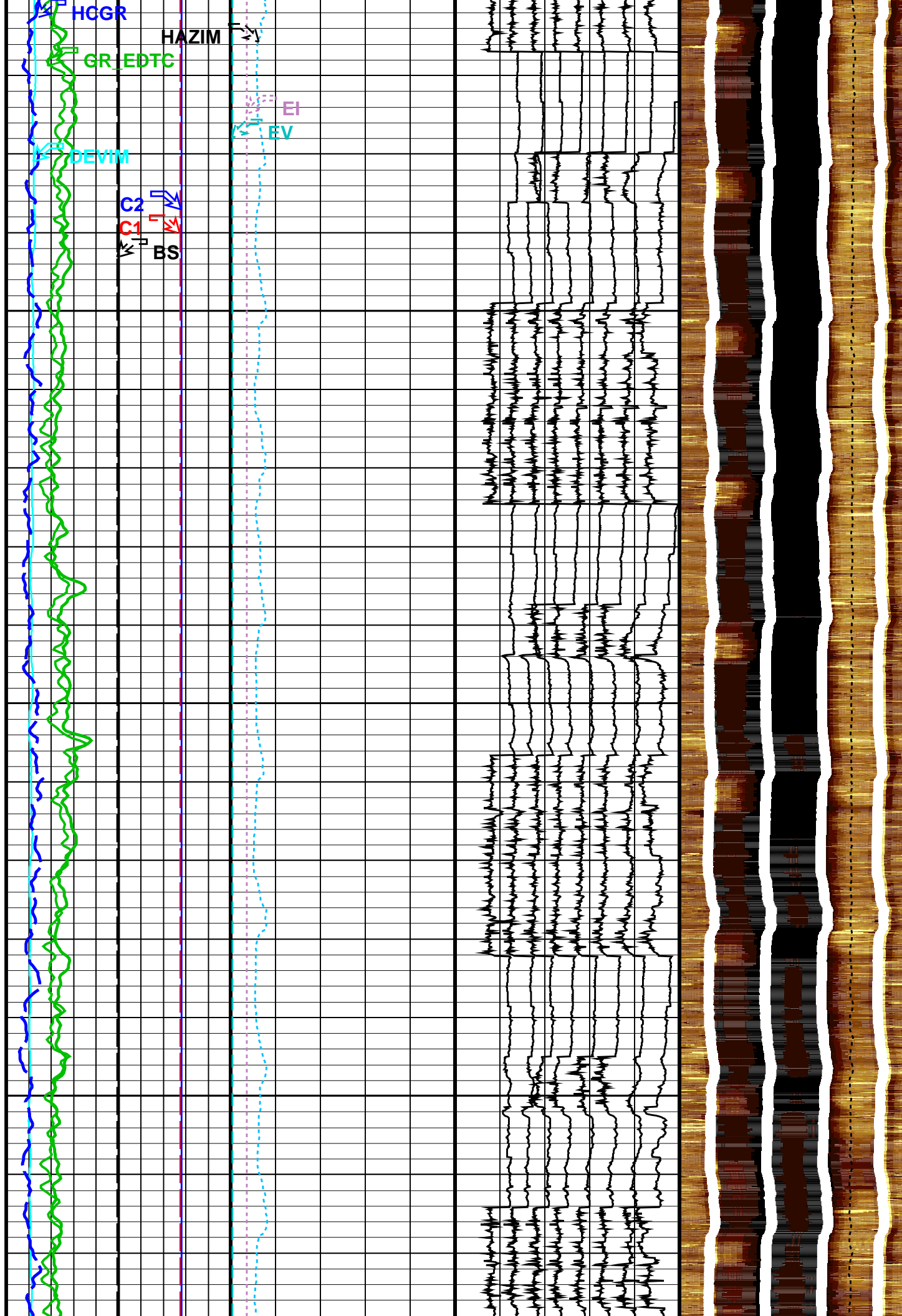
U-MEST RB5

U-MEST RB4

U-MEST RB3

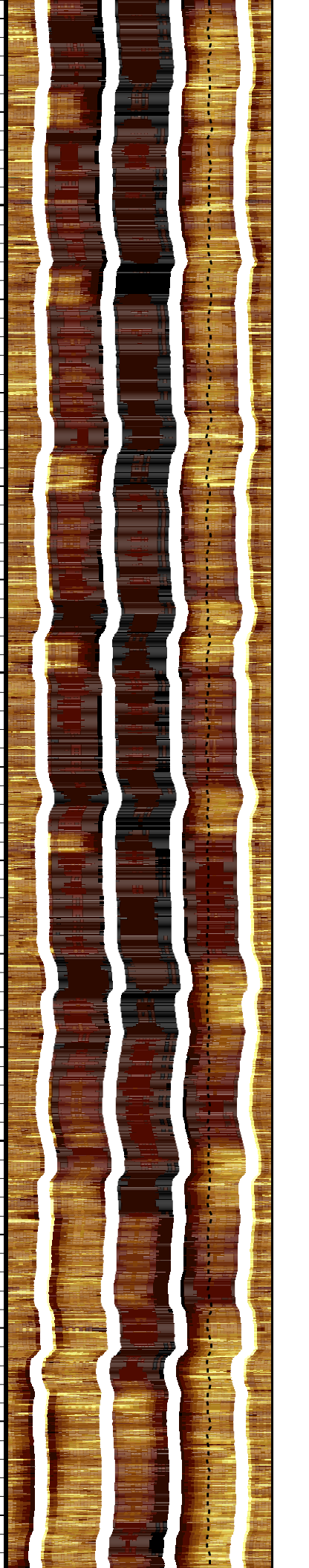
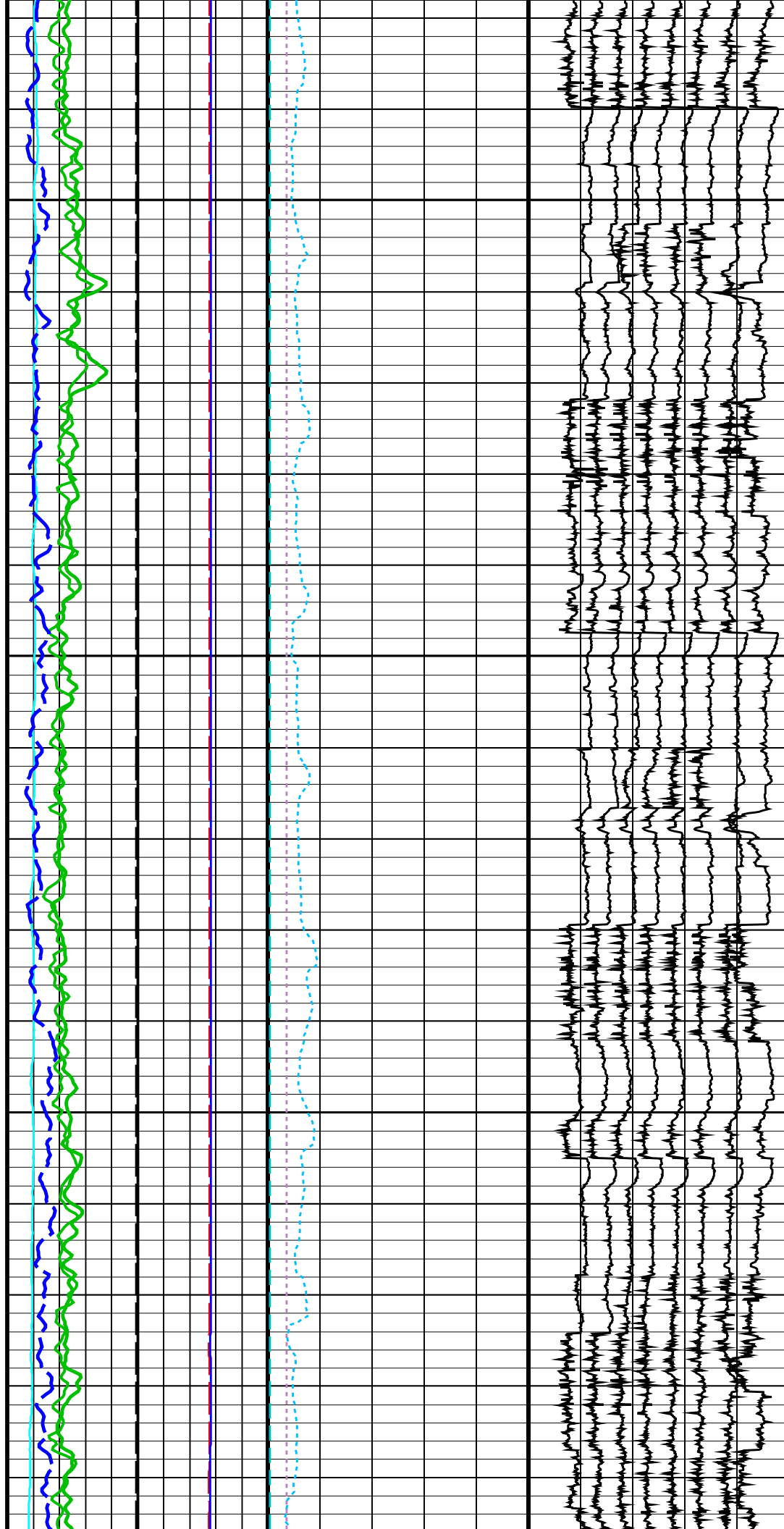
U-MEST RB2

U-MEST RB1



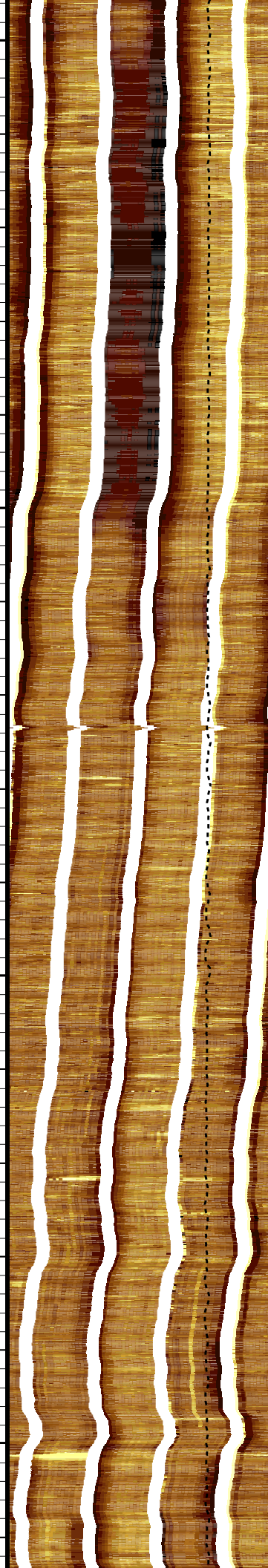
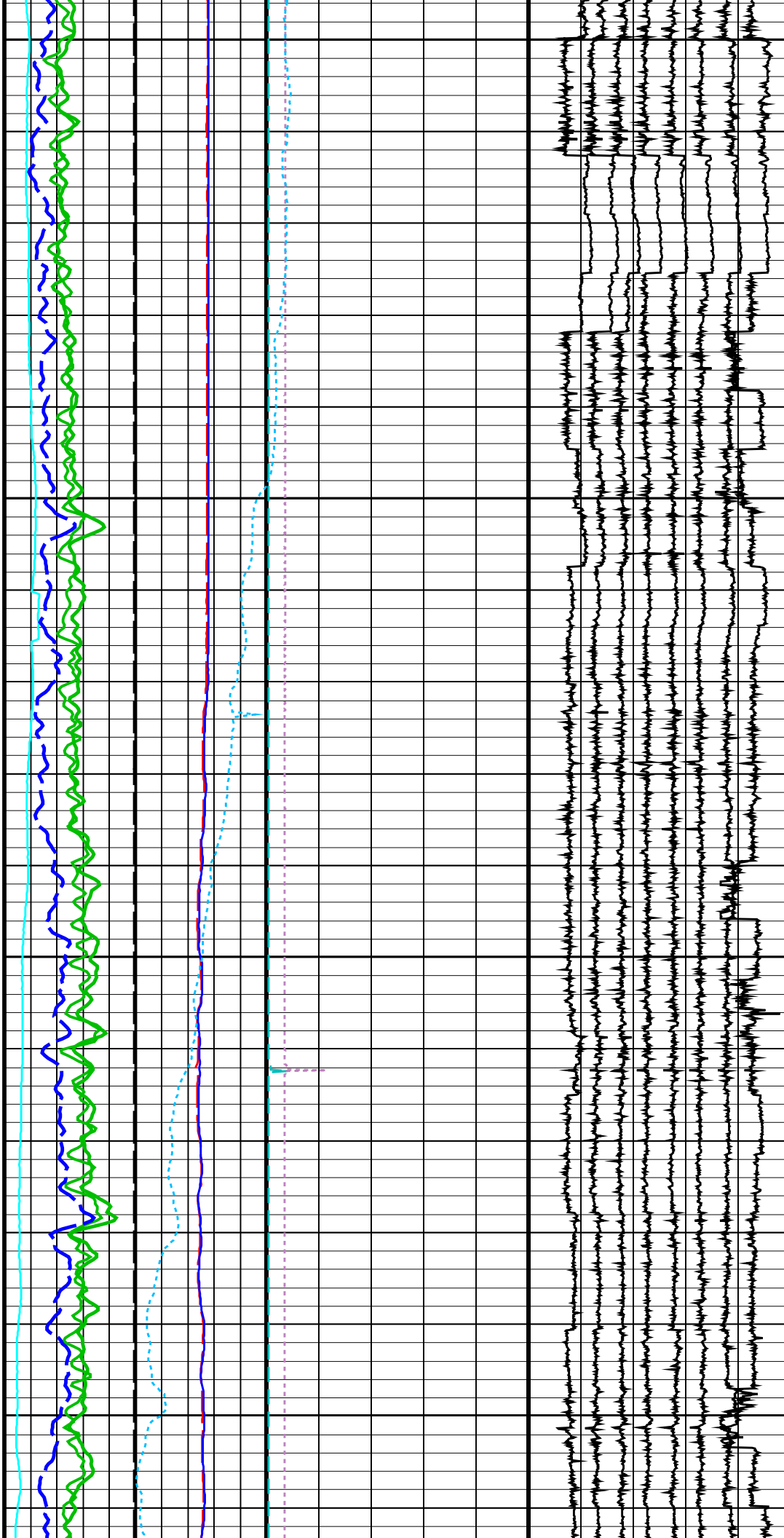
450

500

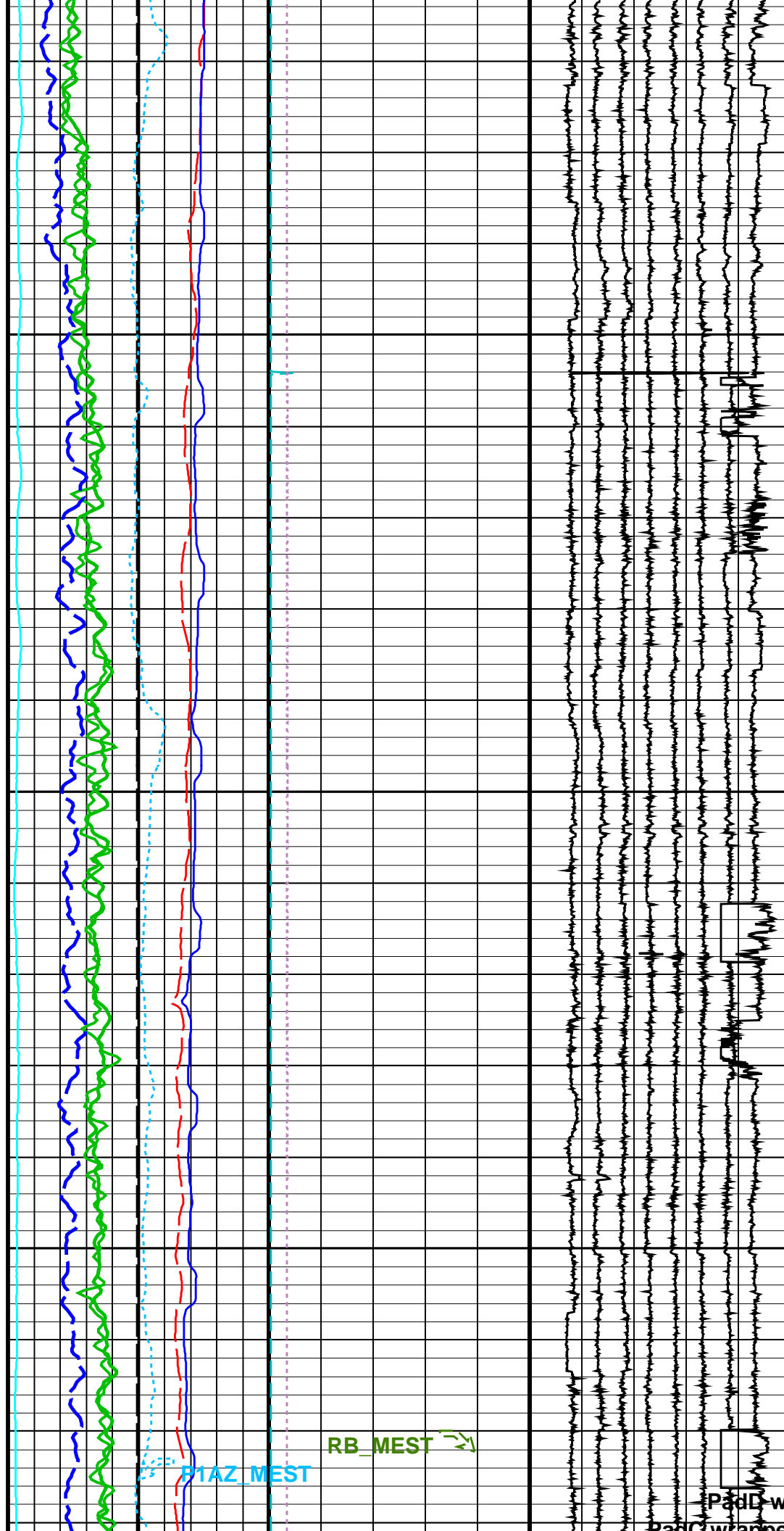


550

600



650



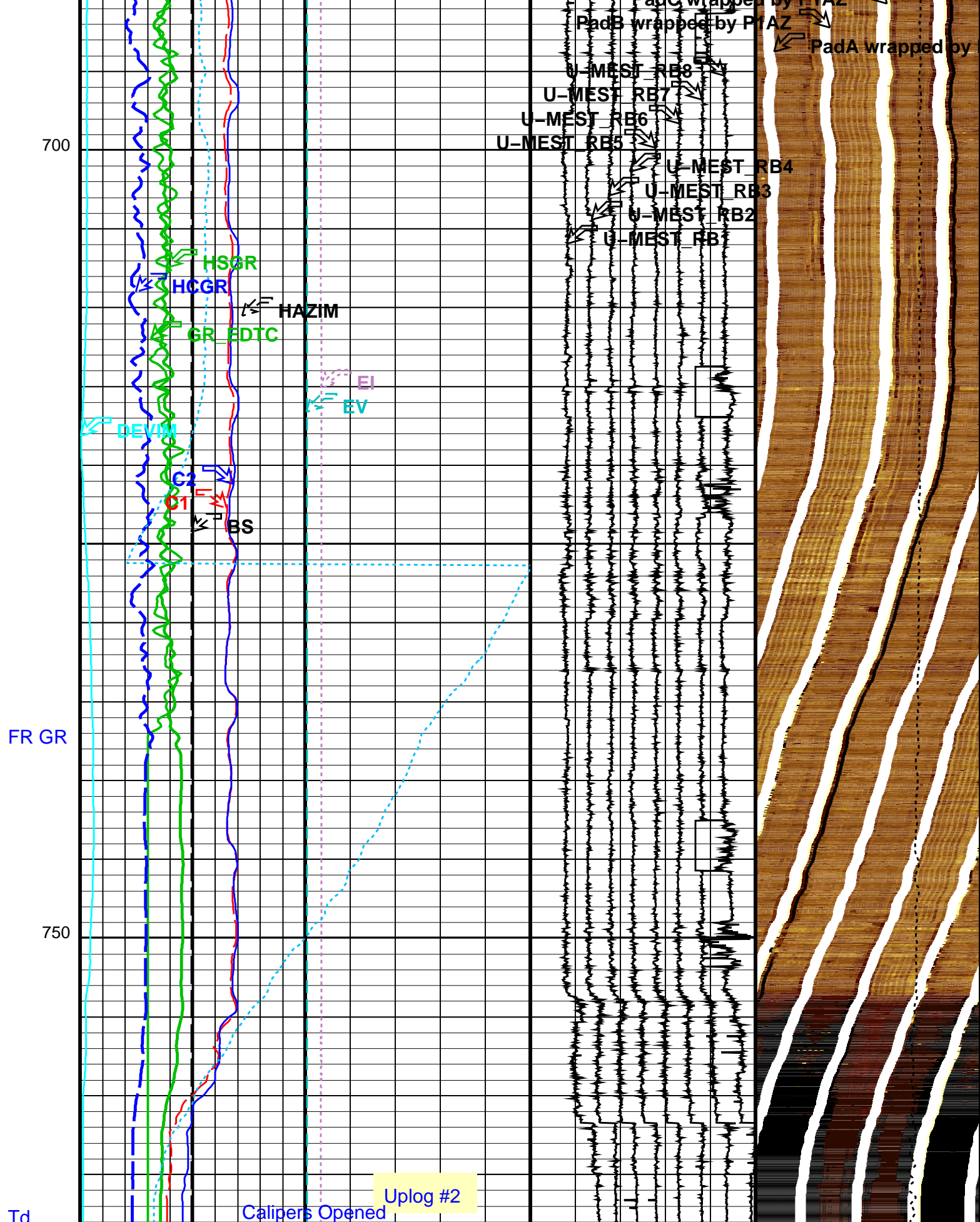
P1AZ_MEST

RB_MEST

P3dd wrapped by P1AZ

P3dd wrapped by P1AZ

TENS



Caliper 1 (C1) (IN)	EMEX Voltage (EV) (V)	Data Button 1 - Varies with RBS (U-MEST_RB1)	Tension (TENS) (LBF)
0	0	-10	10000
20	50	90	0

776
529
571
127
482
553
424
394
550
506
277
1218
159
557
517
1096

Caliper 2 (C2) (IN)		0	20	EMEX Intensity (EI) (AMPS)		0	10	Data Button 2 – Varies with RBS (U-MEST_RB2)		-20	(----)	80	<div><div></div><div>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</div></div> <div>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS) (----)</div>			
Deviation (DEVIM) (DEG)								0	10	Data Button 3 – Varies with RBS (U-MEST_RB3)		-30		(----)	70	<div><div></div><div>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</div></div> <div>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)</div>
Hole Azimuth (HAZIM) (DEG)								-40	360	Data Button 4 – Varies with RBS (U-MEST_RB4)		-40		(----)	60	<div><div></div><div>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</div></div> <div>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)</div>
Pad One Azimuth (P1AZ_MEST) (DEG)								-40	360	Data Button 5 – Varies with RBS (U-MEST_RB5)		-50		(----)	50	<div><div></div><div>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</div></div> <div>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)</div>
Relative Bearing (RB_MEST) (DEG)								-40	360	Data Button 6 – Varies with RBS (U-MEST_RB6)		-60		(----)	40	
Bit Size (BS) (IN)				0	20			Data Button 7 – Varies with RBS (U-MEST_RB7)		-70	(----)	30				
Gamma Ray (GR_EDTC) (GAPI)				0	100			Data Button 8 – Varies with RBS (U-MEST_RB8)		-80	(----)	20				
HNCS Computed Gamma Ray (HCGR) (GAPI)				0	100											
HNCS Spectroscopy Gamma Ray (HSGR) (GAPI)				0	100											

PIP SUMMARY	
	Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner – B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	0.99795	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
HNCS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNCS Detector 1 Barite Constant	1	
BAR2	HNCS Detector 2 Barite Constant	1	
BHK	HNCS 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	HNCS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNCS Detector 1 Allow/Disallow In Processing	ALLOW	

H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00300711	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.11669	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.972617	
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-97.5	M
PP	Playback Processing	NORMAL	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:300 Graphics File Created: 18-Sep-2015 17:04

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_028LUP	FN:43 PRODUCER	11-Sep-2015 18:52 866.4 M 82.9 M
Output DLIS Files			
DEFAULT	FMS_DSI_NGS_062PUP	FN:66 PRODUCER	18-Sep-2015 17:04

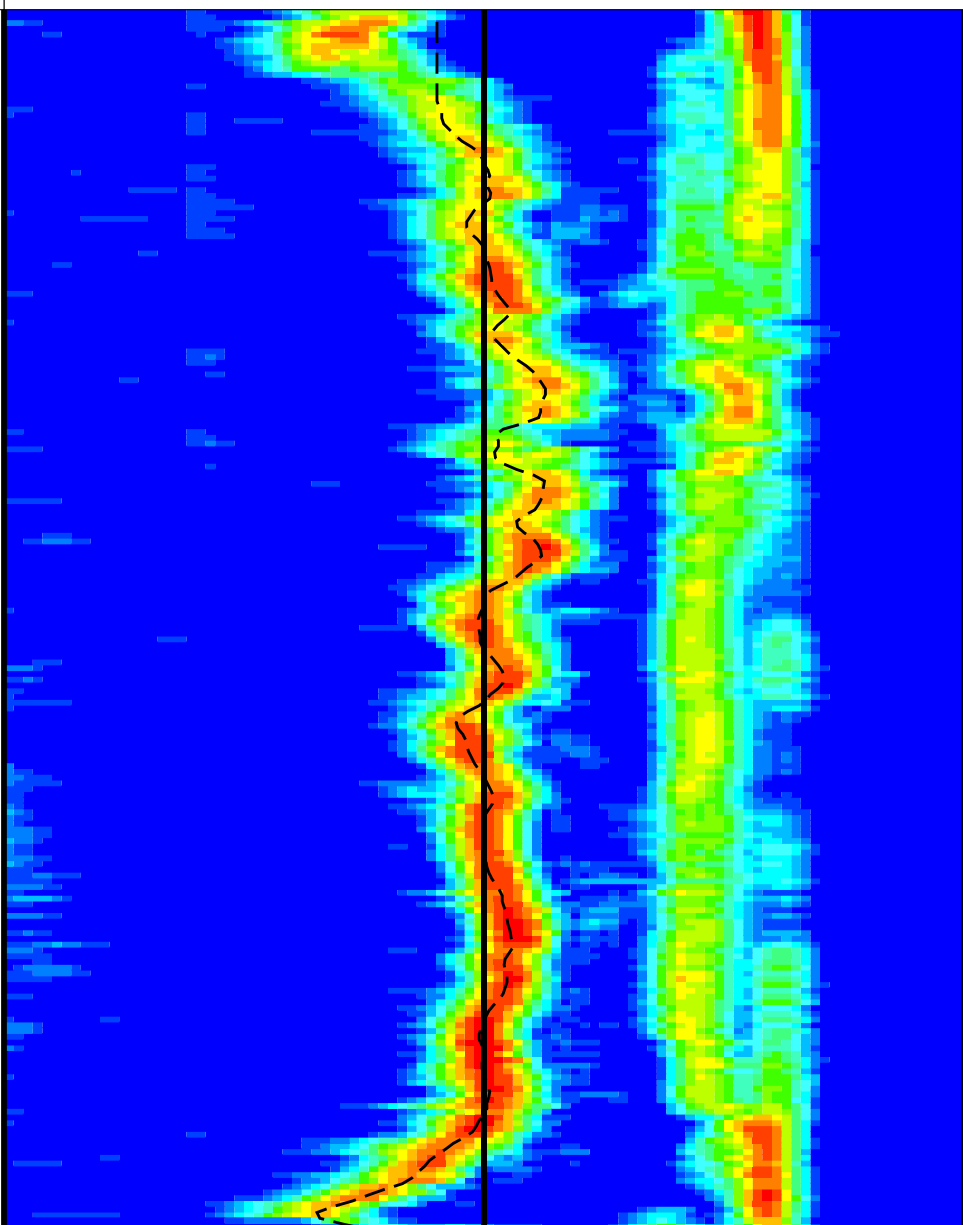
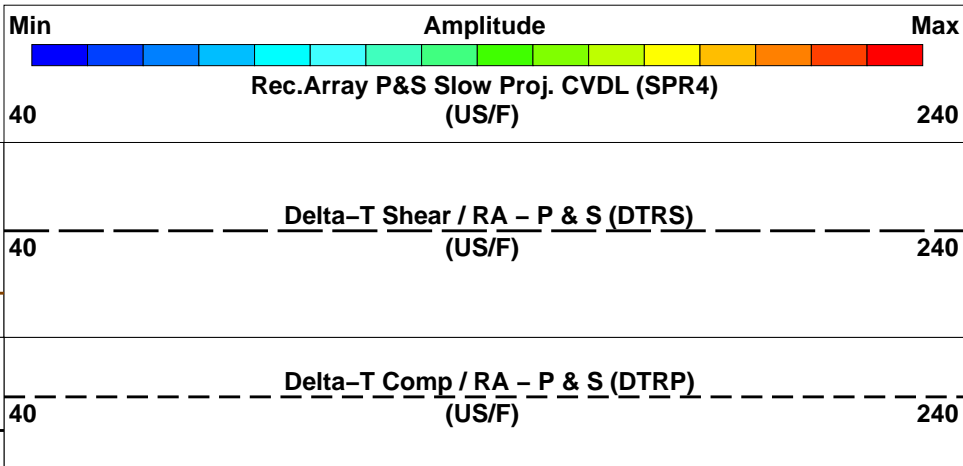
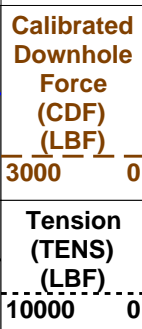
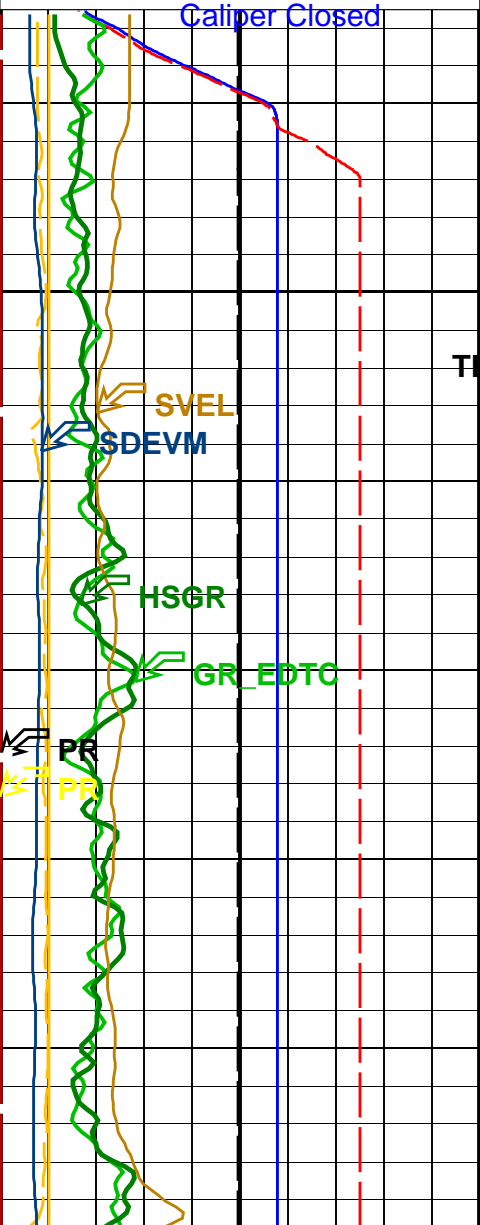
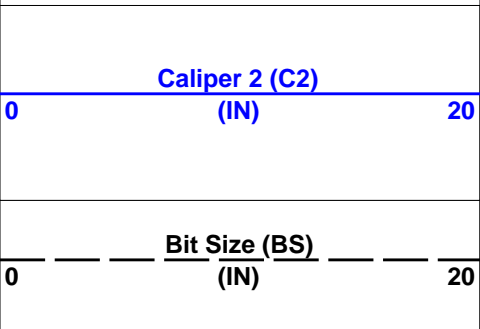
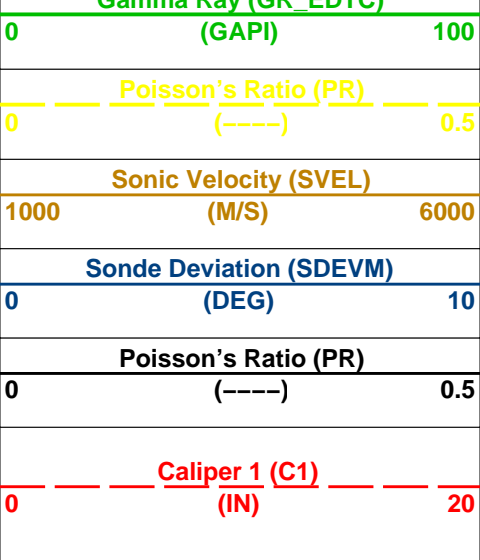
Company: International Ocean Discovery Program Well: Expedition 356, Site U1462 C

Input DLIS Files			
DEFAULT	FMS_DSI_NGS_025LUP	FN:37 PRODUCER	11-Sep-2015 16:56 866.4 M 240.0 M
Output DLIS Files			
DEFAULT	FMS_DSI_NGS_061PUP	FN:65 PRODUCER	18-Sep-2015 16:44 768.1 M 142.5 M

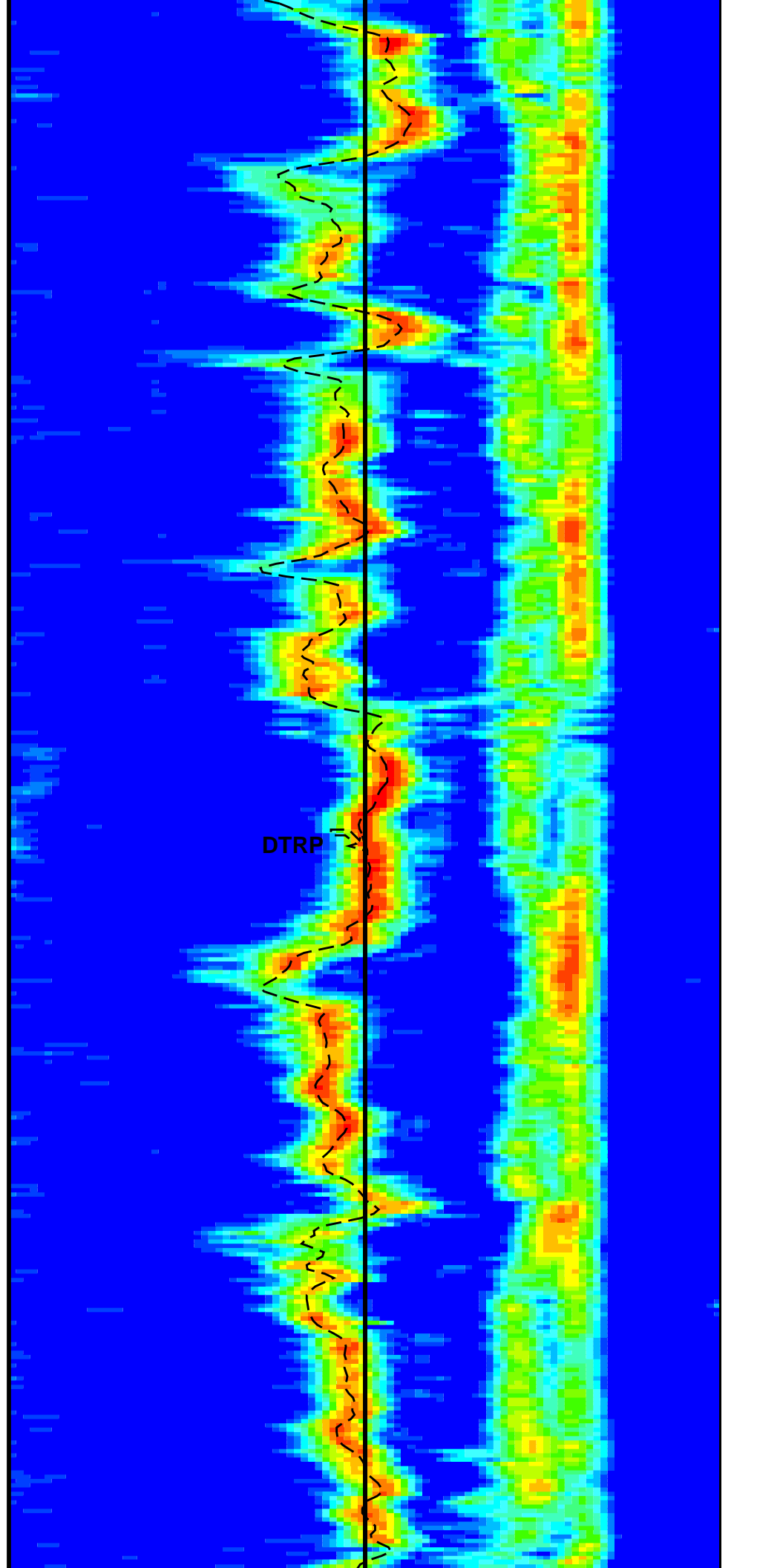
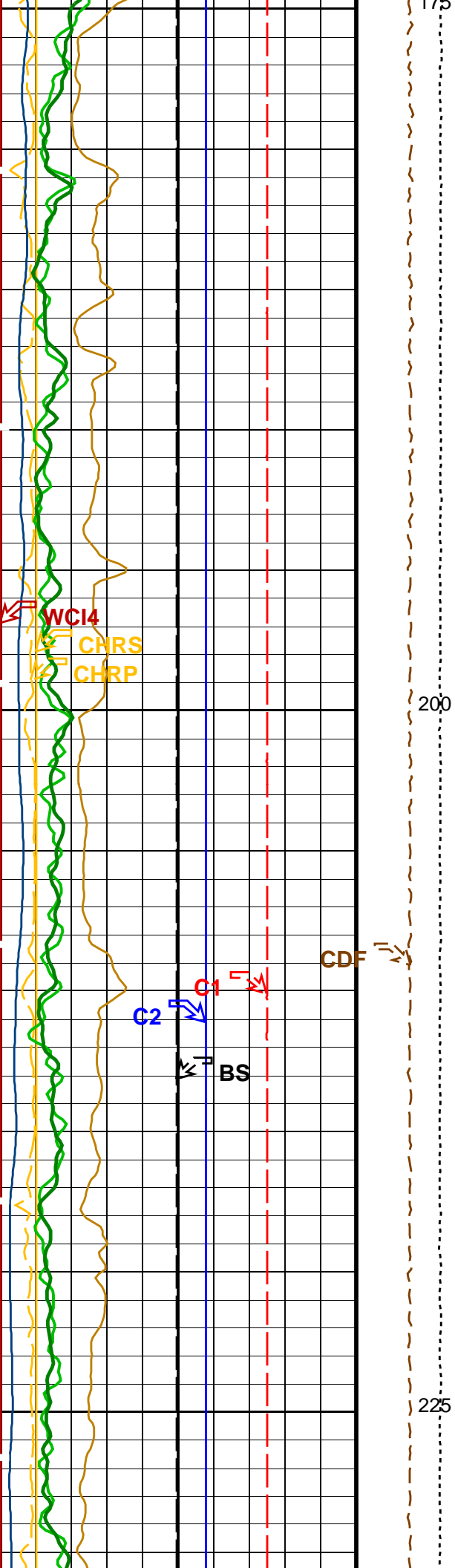
OP System Version: 19C0-187			
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

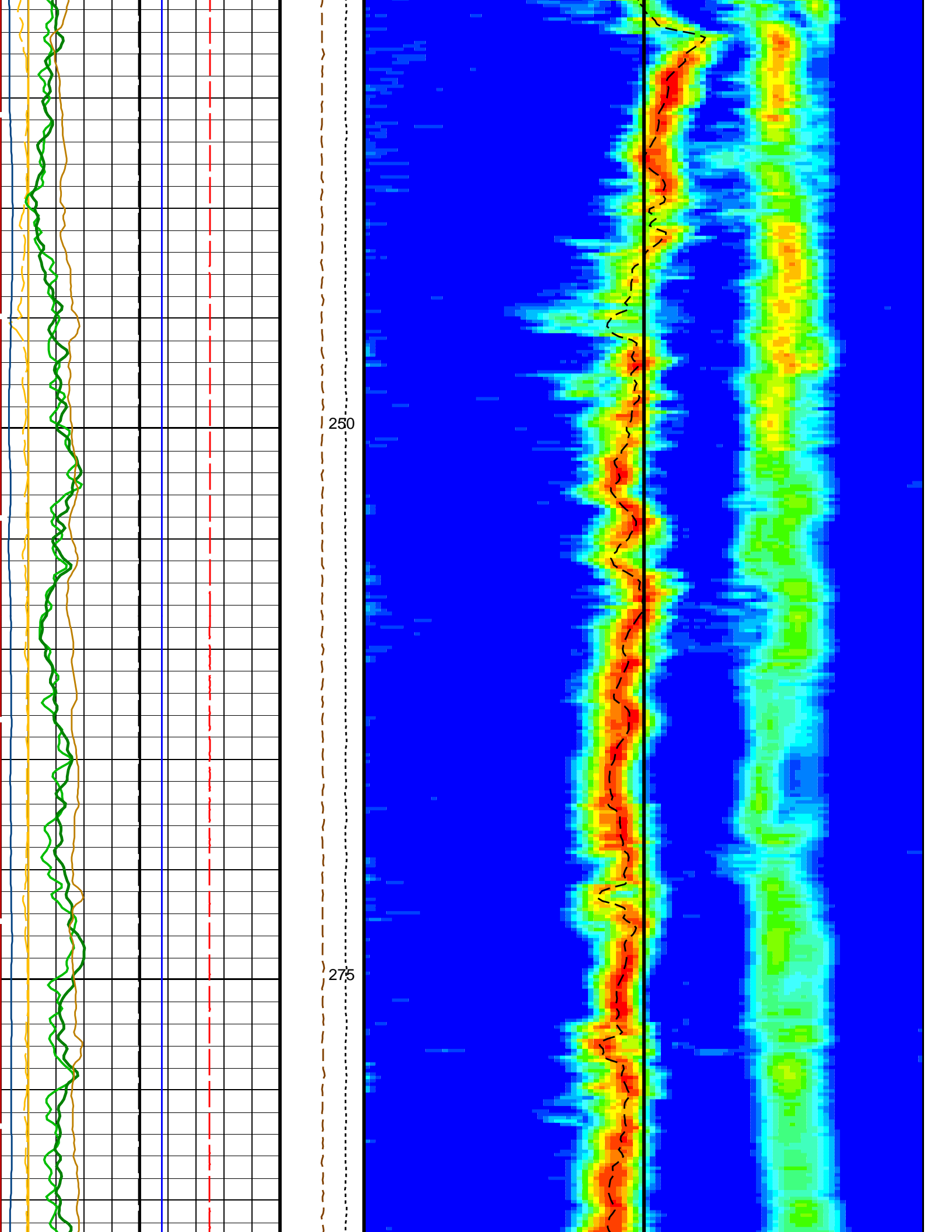
PIP SUMMARY

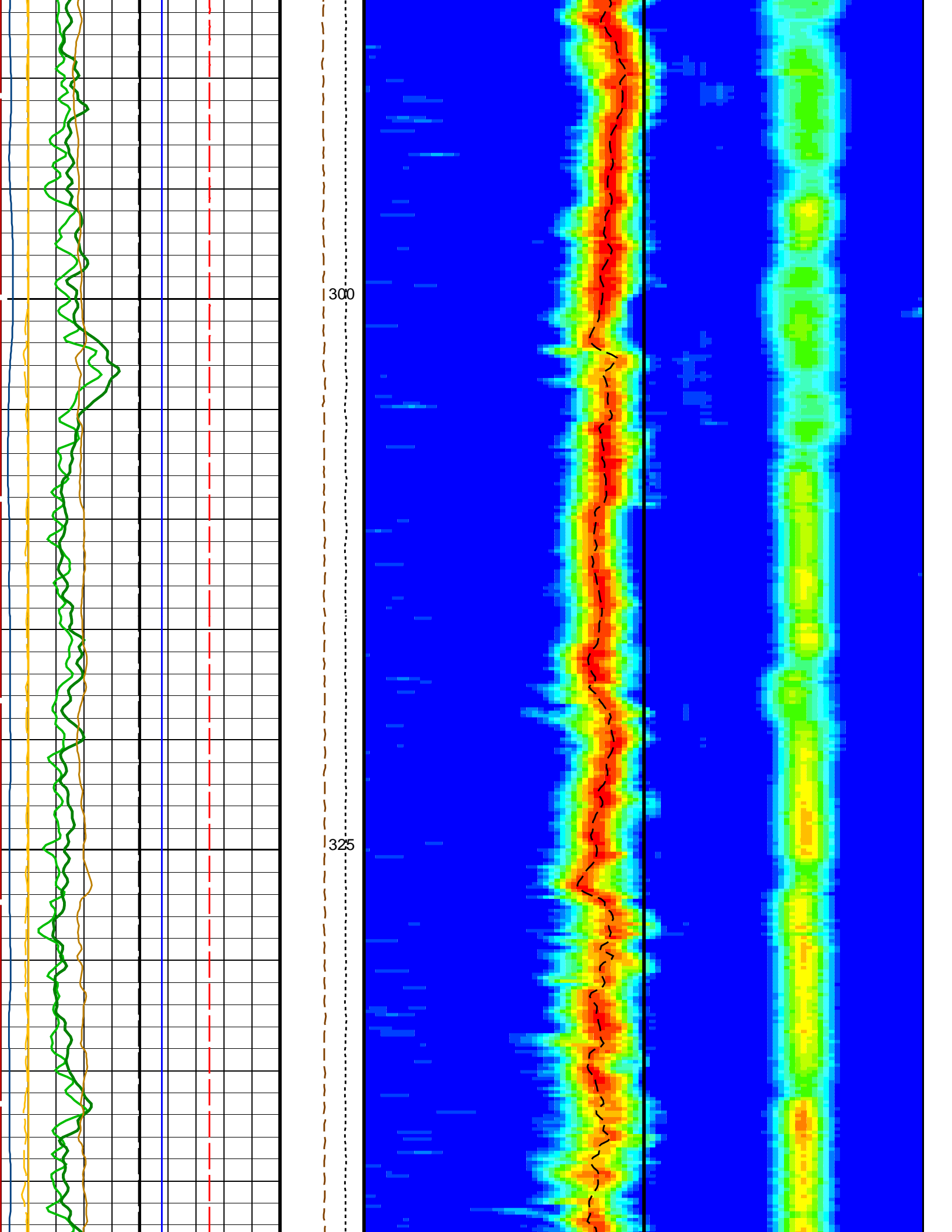
Time Mark Every 60 S		
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----	10
Gamma Ray (GR EDTC)		

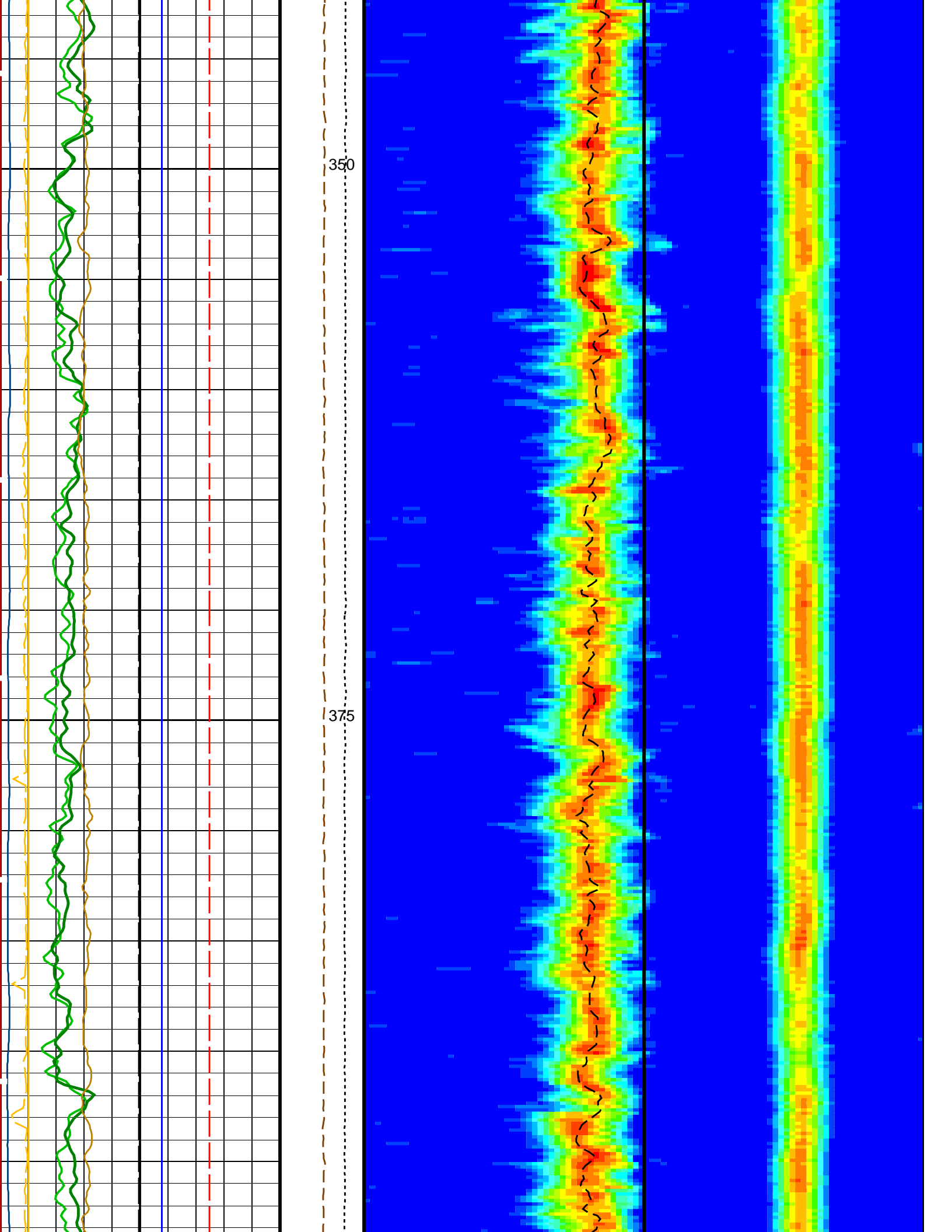


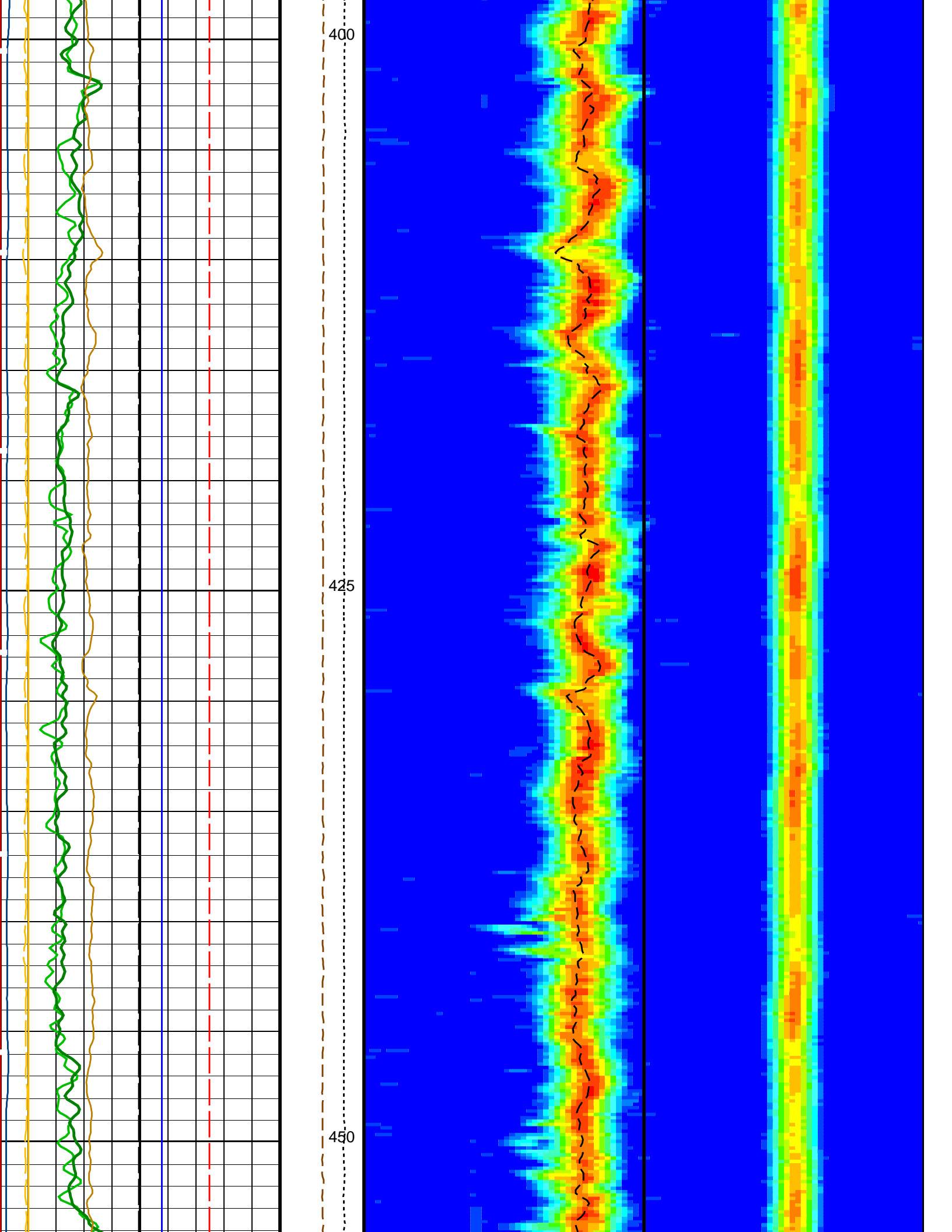
Uplong #1

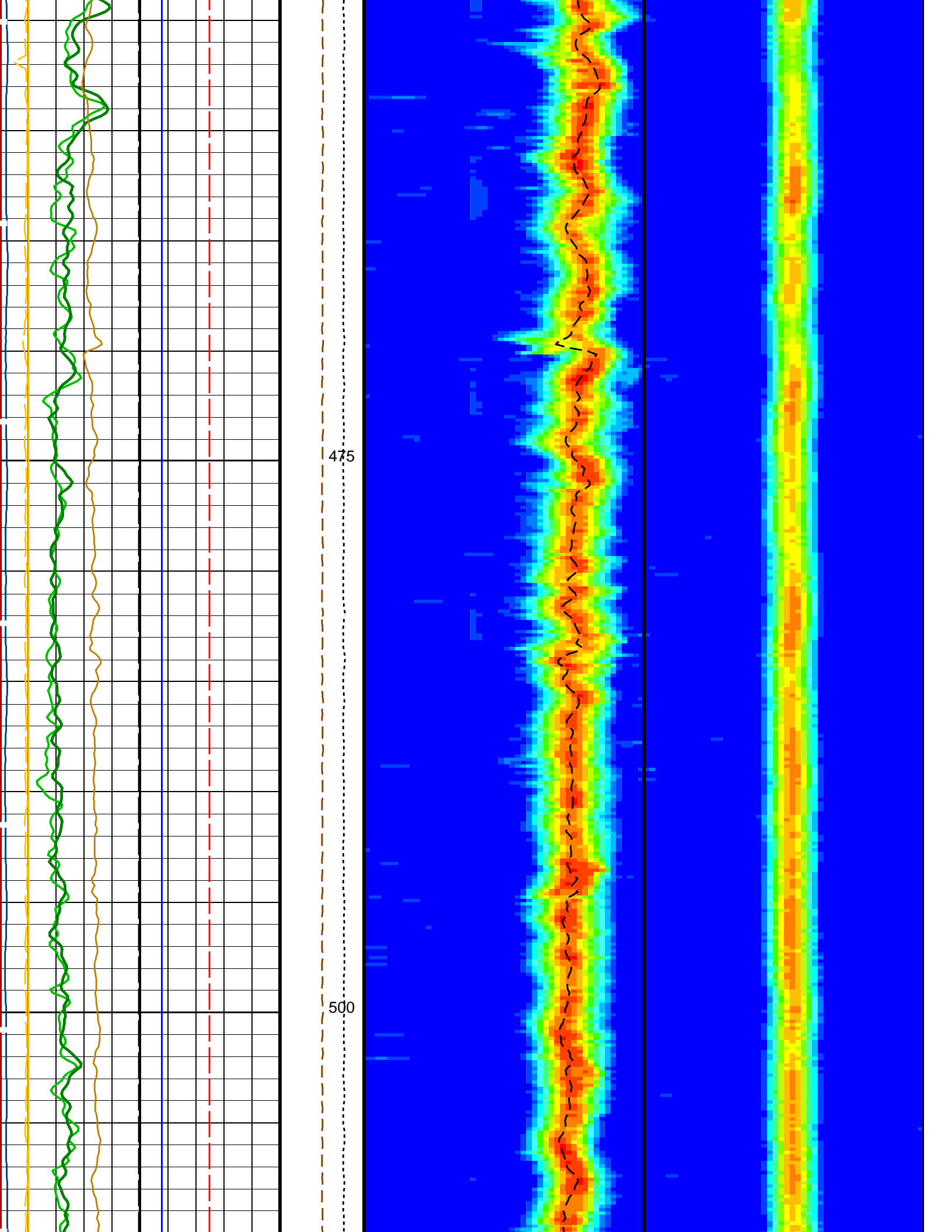


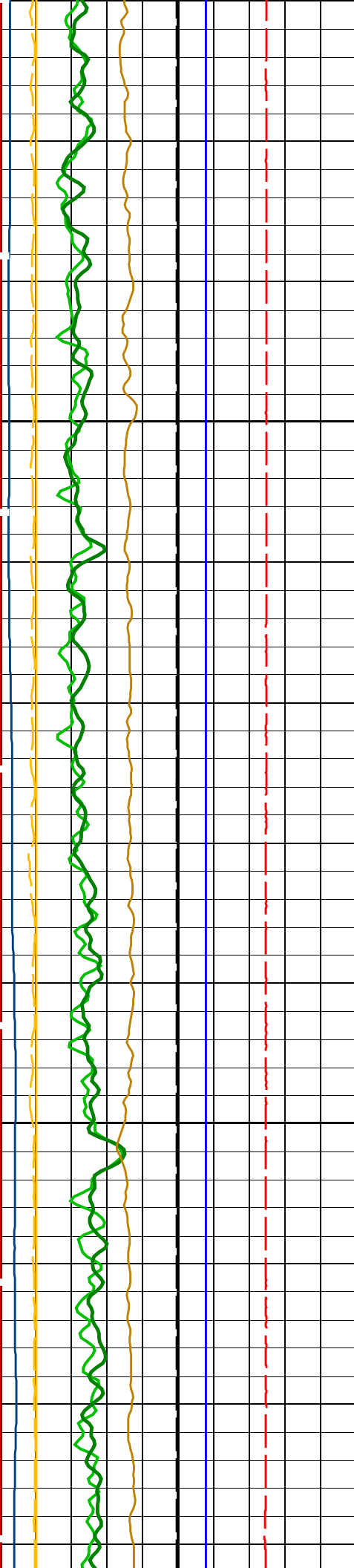






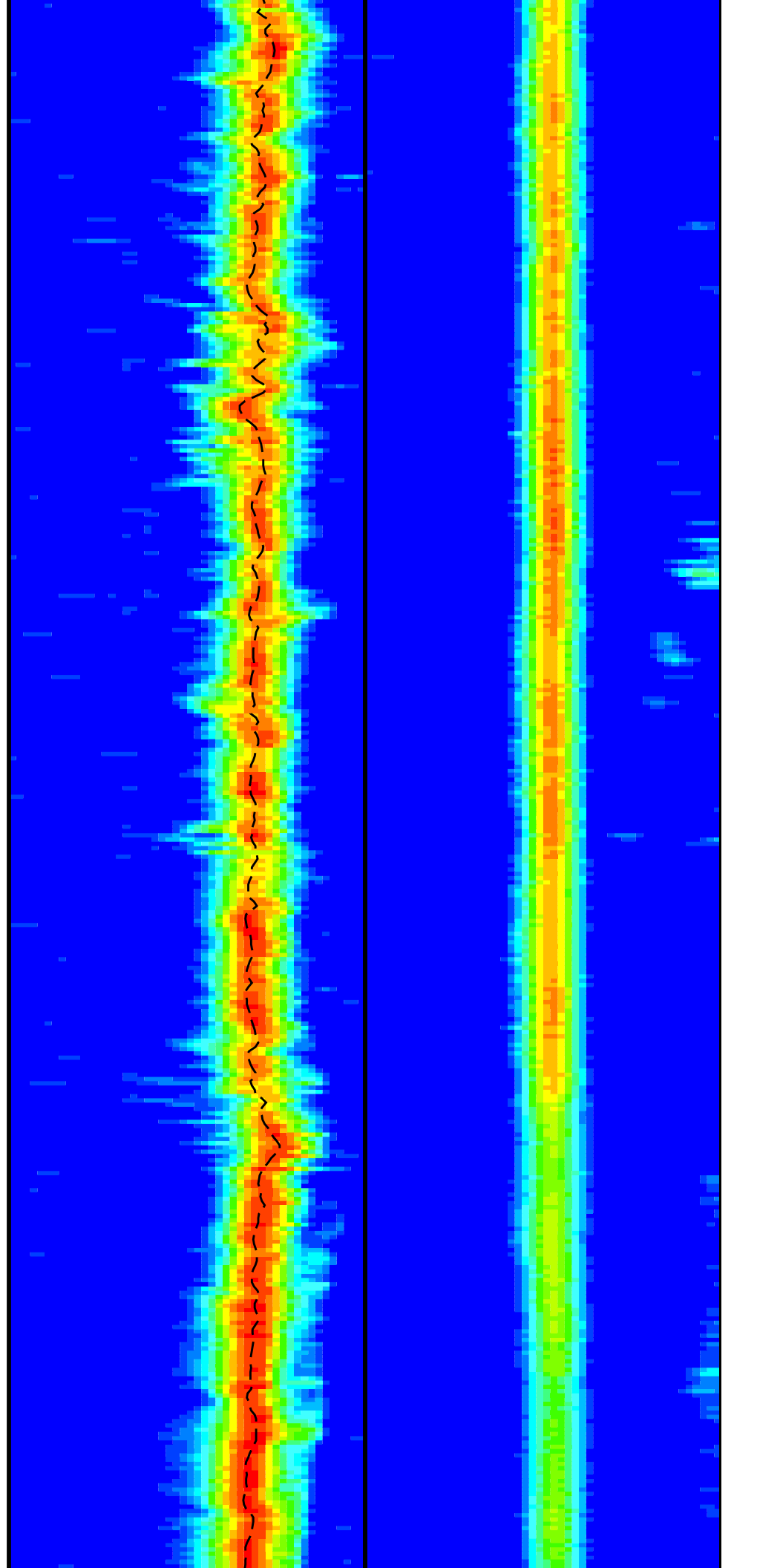


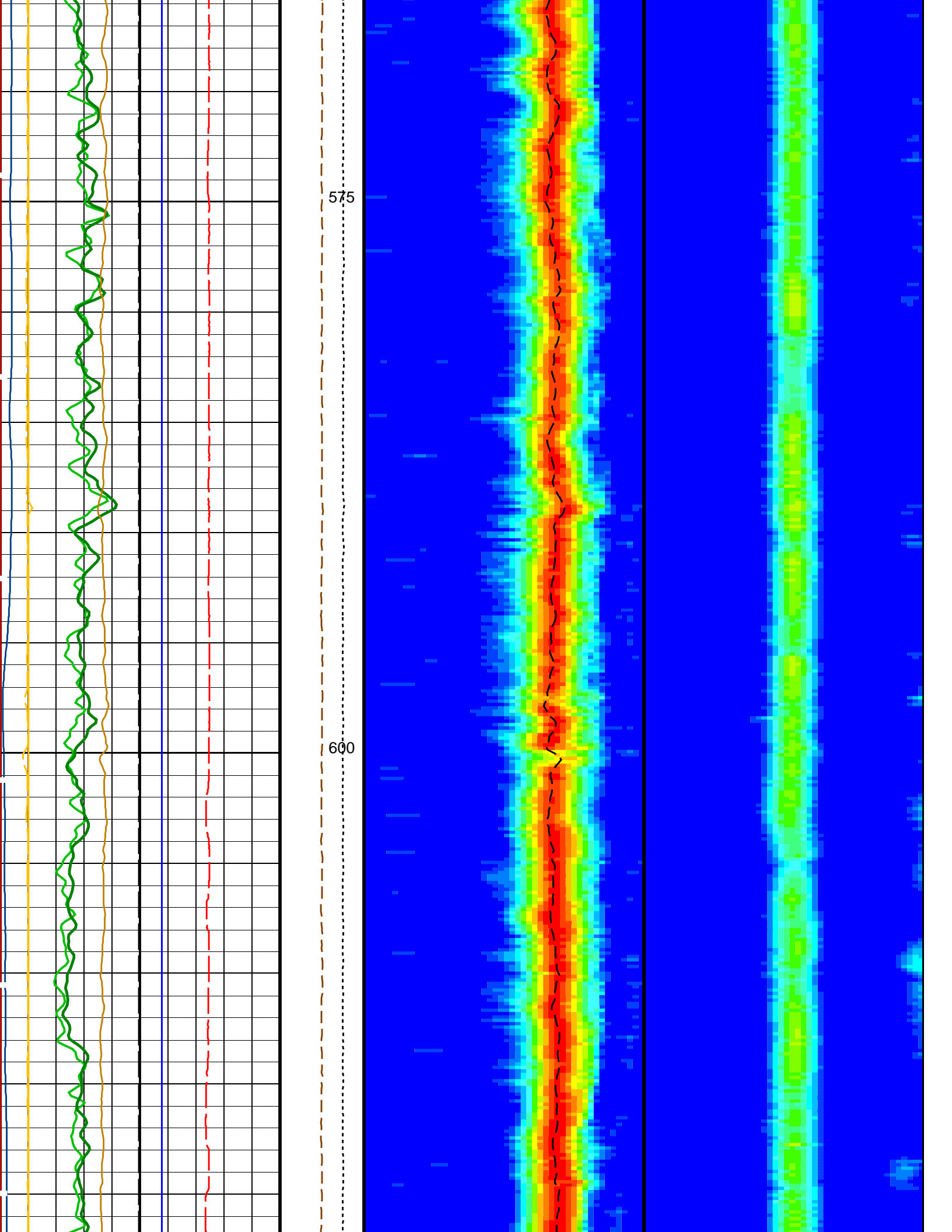


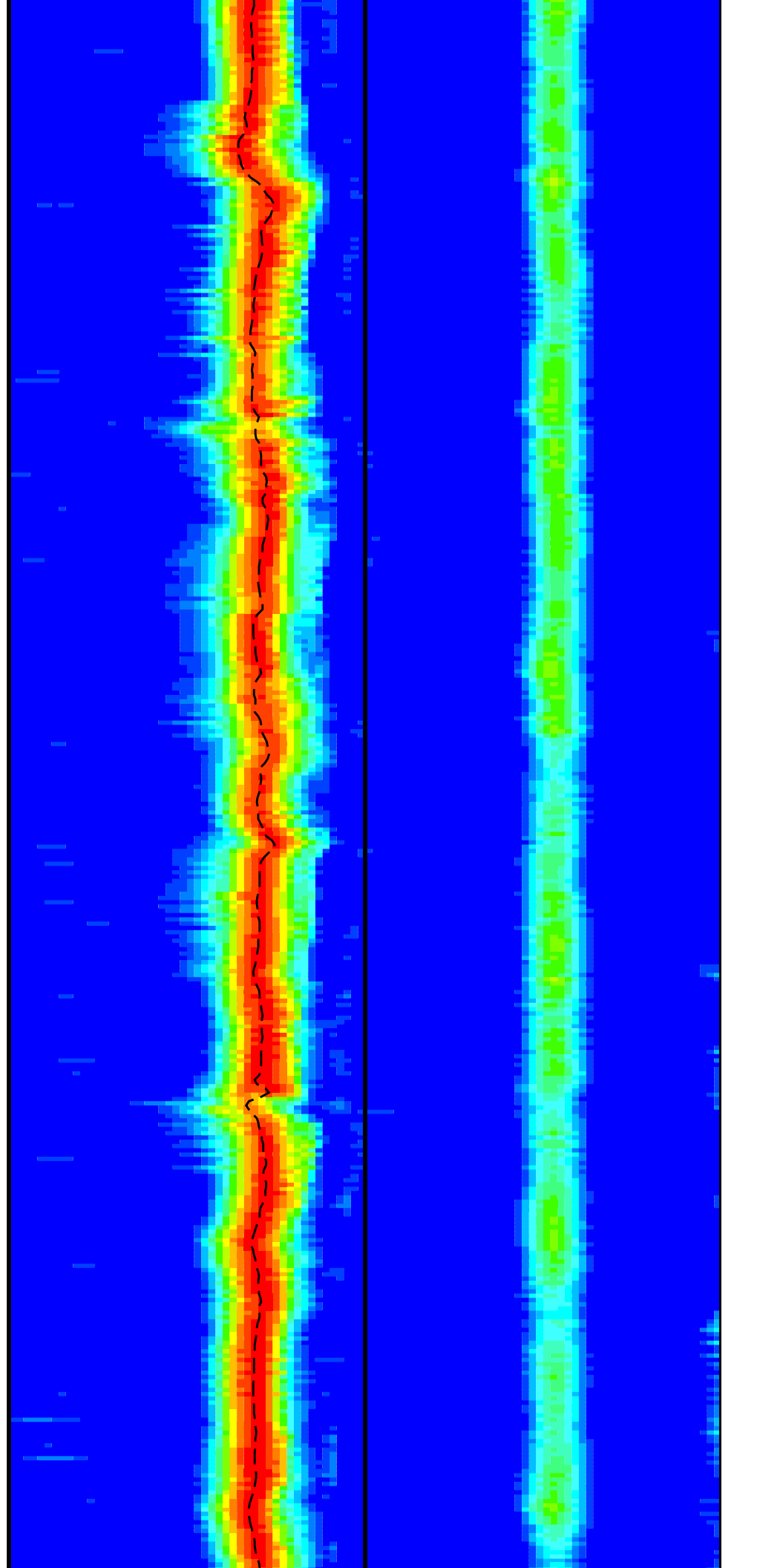
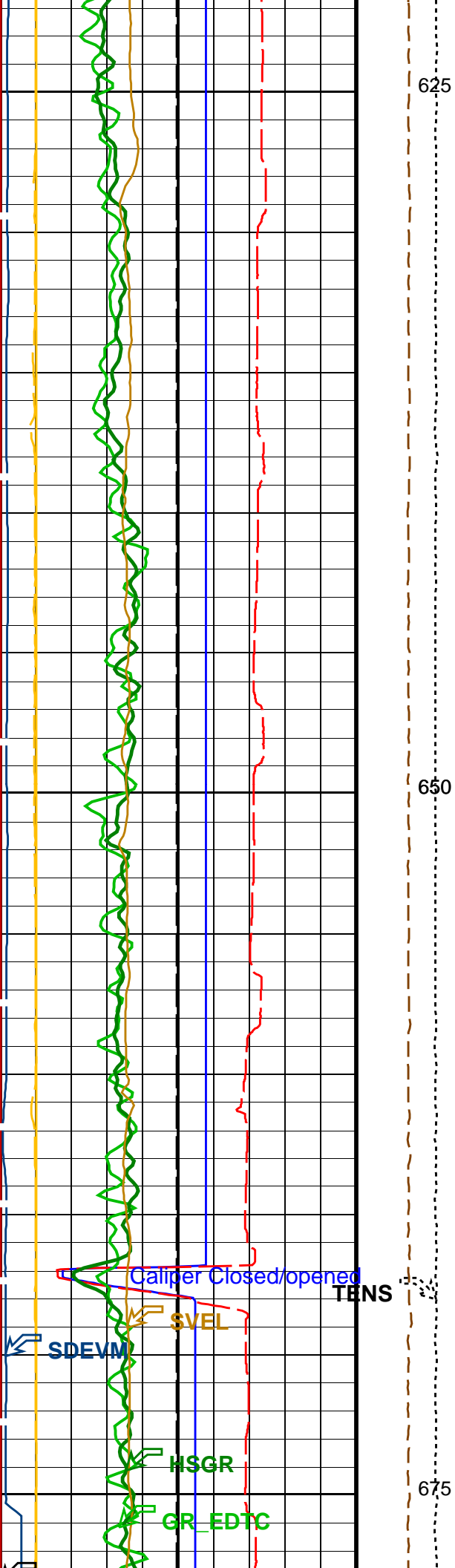


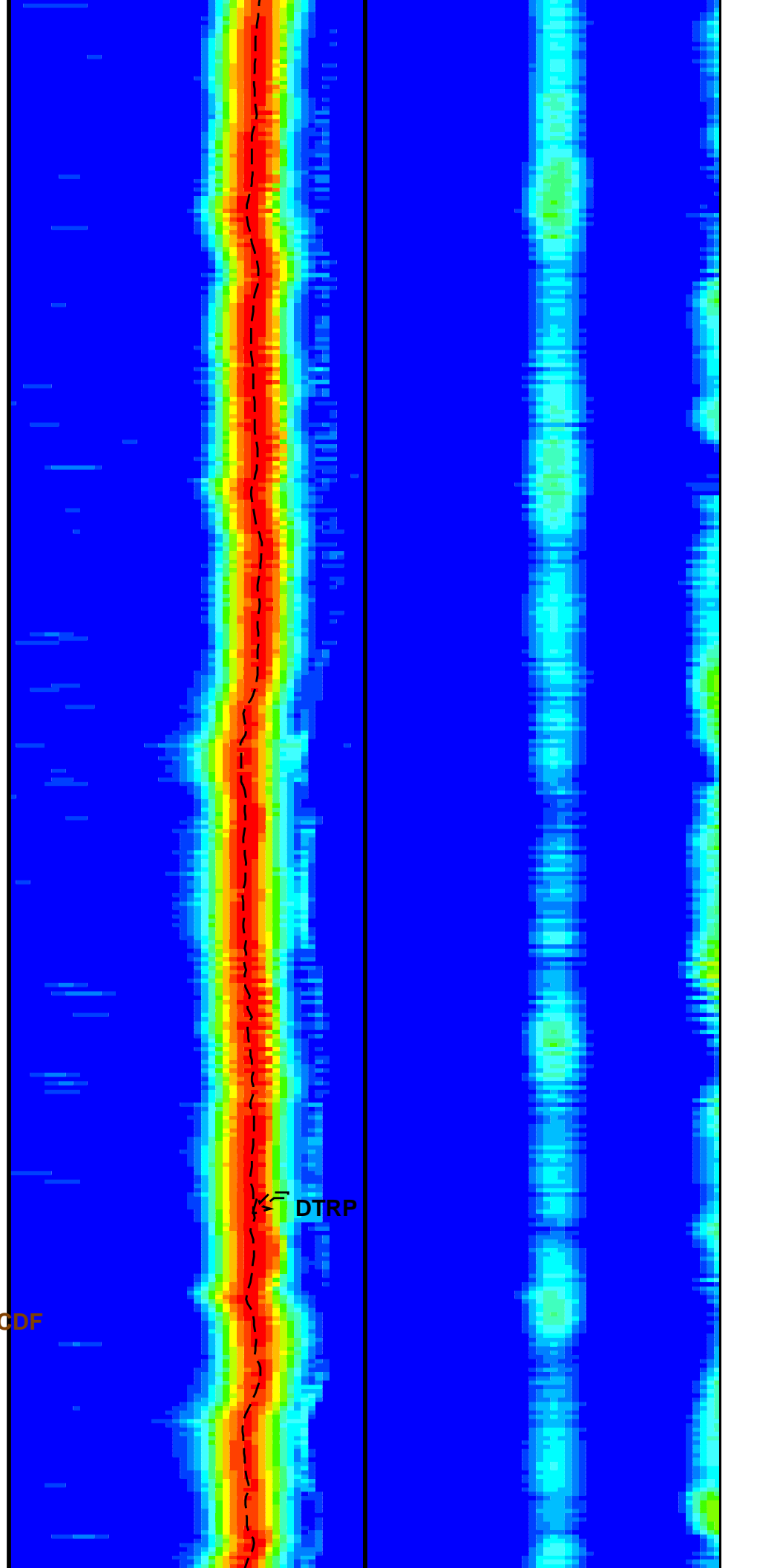
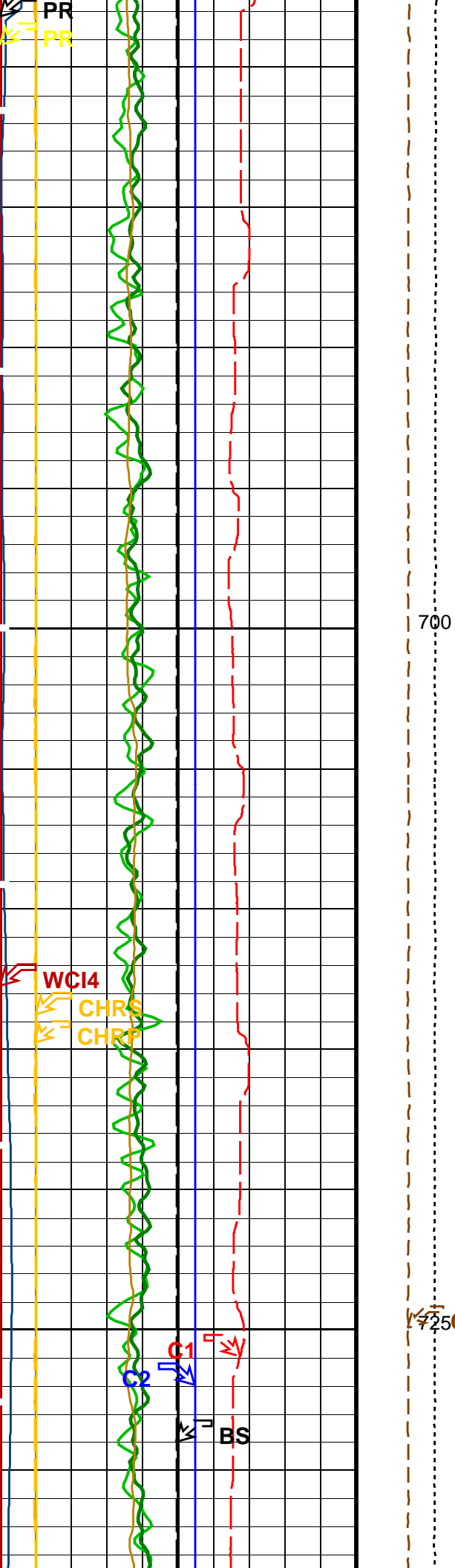
525

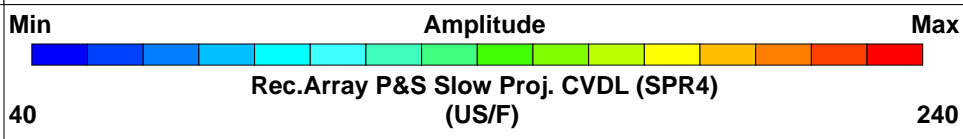
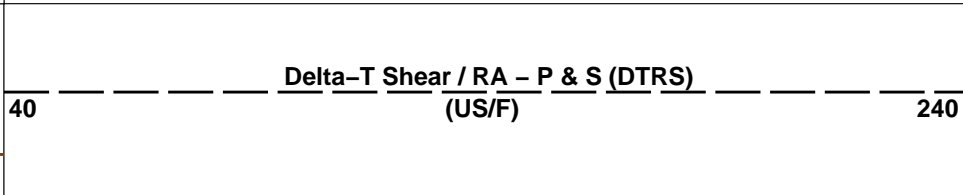
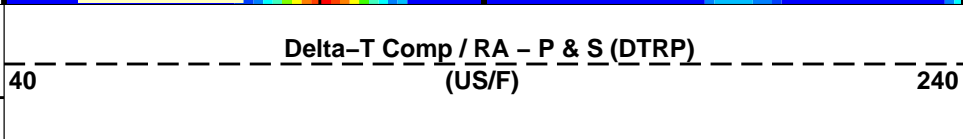
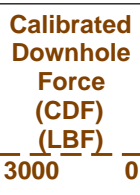
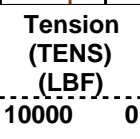
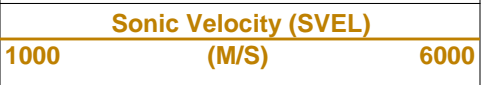
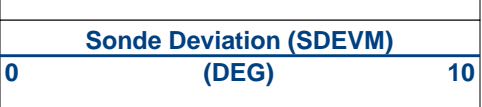
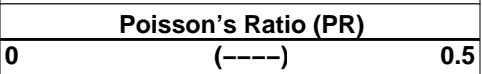
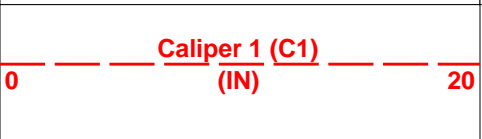
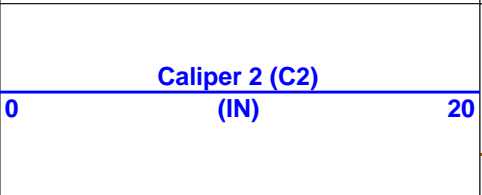
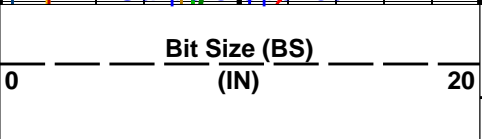
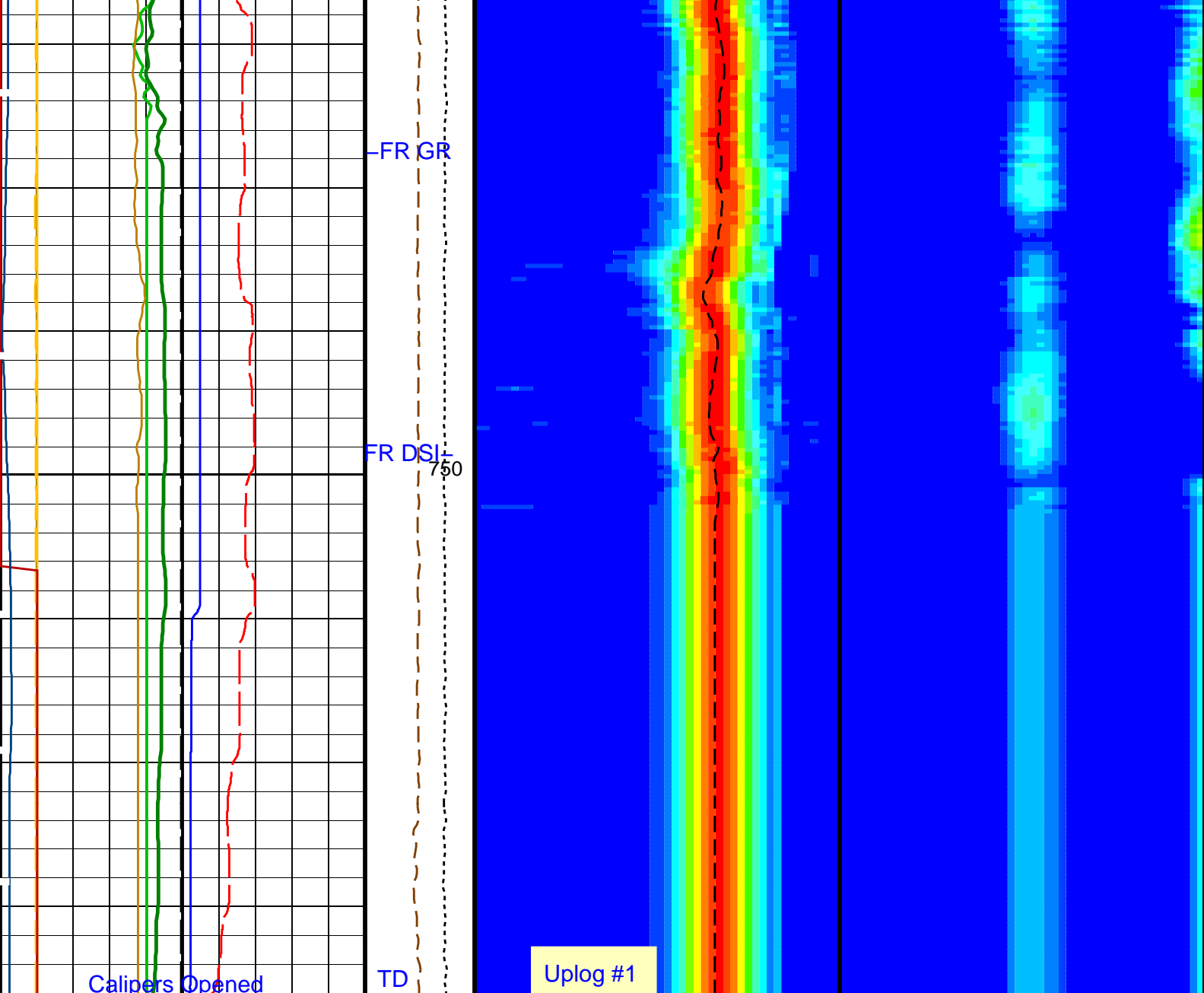
550











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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner – B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	0.99795	DEG
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	70	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	190	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
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	PS_SHEAR	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWV4	STC Slowness Upper Limit – Monopole P&S	240	US/F

SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST4	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	–0.00300711	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.11669	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.972617	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	–97.5	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_Only Vertical Scale: 1:200 Graphics File Created: 18–Sep–2015 16:44

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_025LUP	FN:37	PRODUCER	11–Sep–2015 16:56	866.4 M	240.0 M
---------	--------------------	-------	----------	-------------------	---------	---------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_061PUP	FN:65	PRODUCER	18–Sep–2015 16:44		
---------	--------------------	-------	----------	-------------------	--	--

Company: International Ocean Discovery Program Well: Expedition 356, Site U1462 C

Input DLIS Files

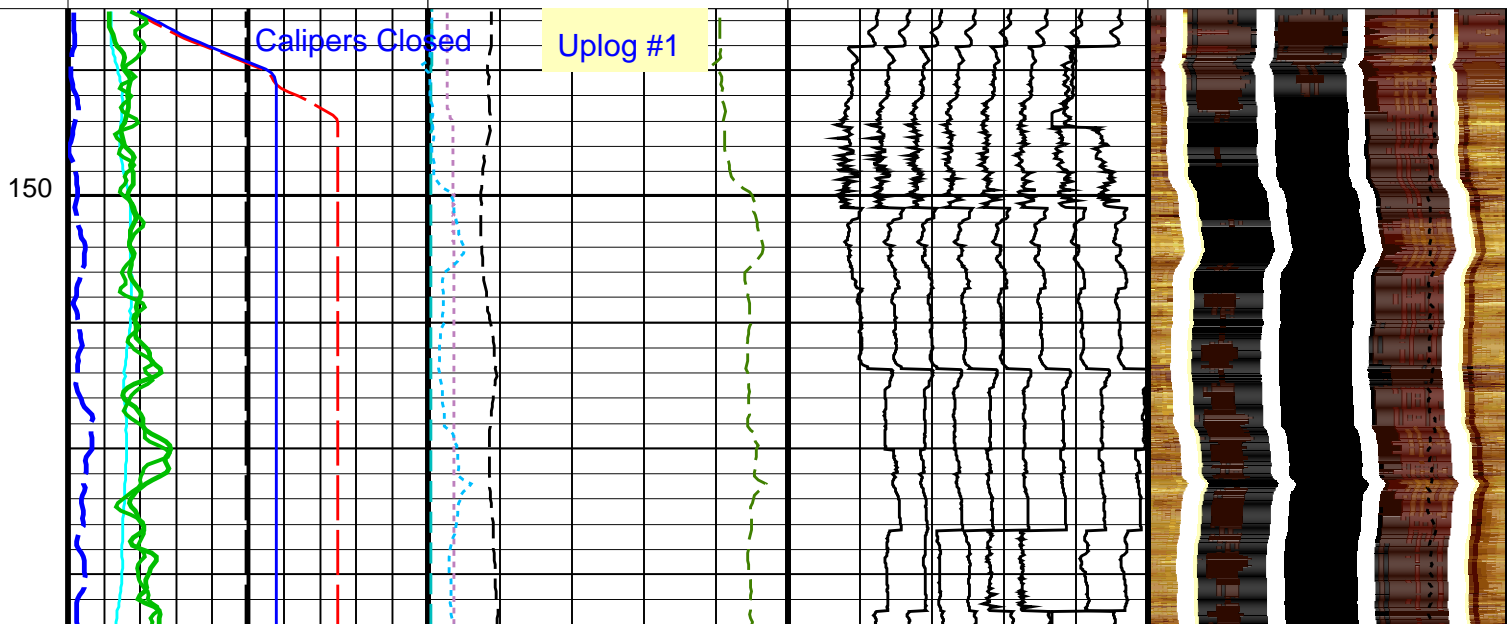
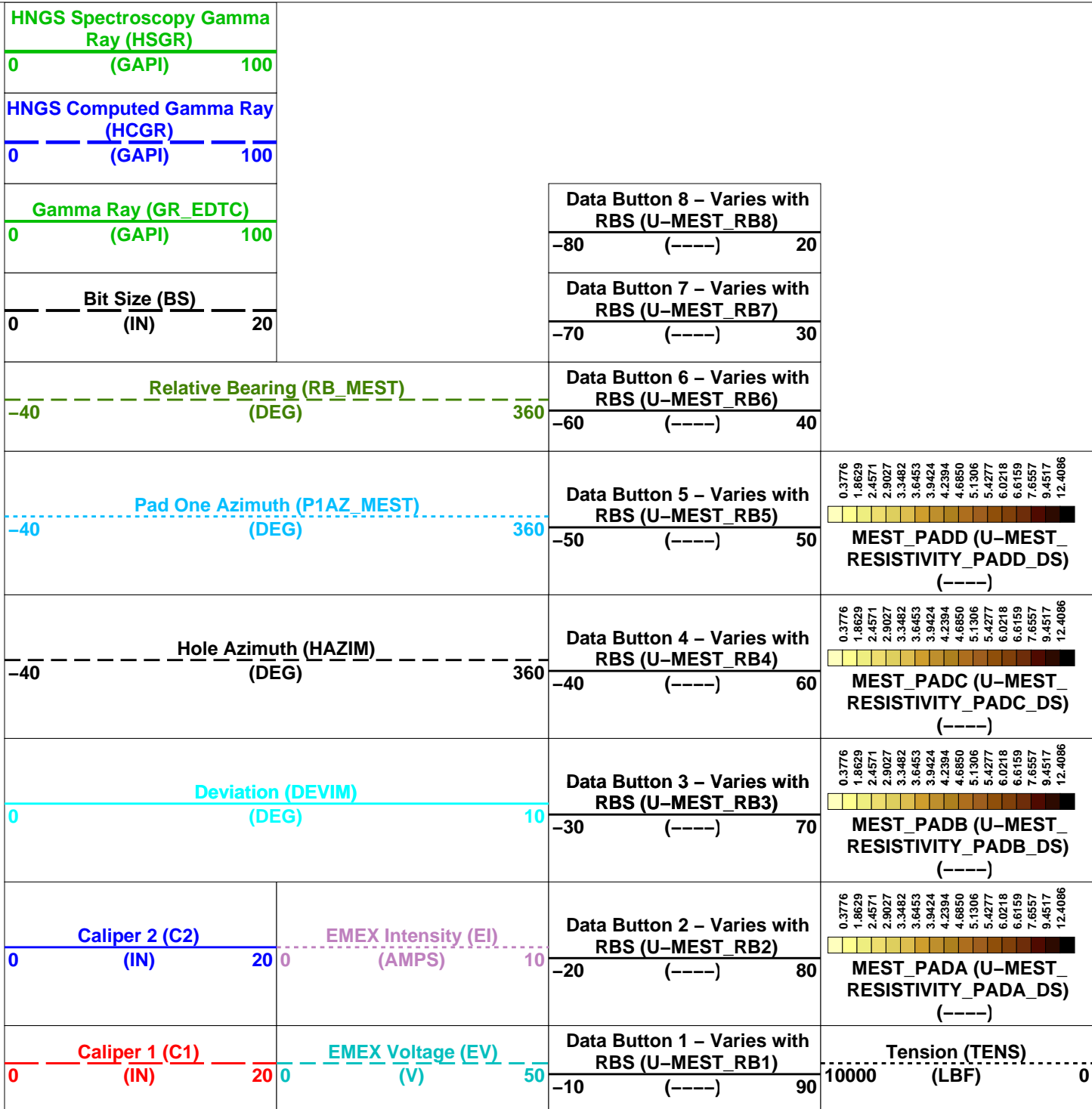
DEFAULT	FMS_DSI_NGS_025LUP	FN:37	PRODUCER	11–Sep–2015 16:56	866.4 M	240.0 M
---------	--------------------	-------	----------	-------------------	---------	---------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_061PUP	FN:65	PRODUCER	18–Sep–2015 16:44	768.1 M	142.5 M
---------	--------------------	-------	----------	-------------------	---------	---------

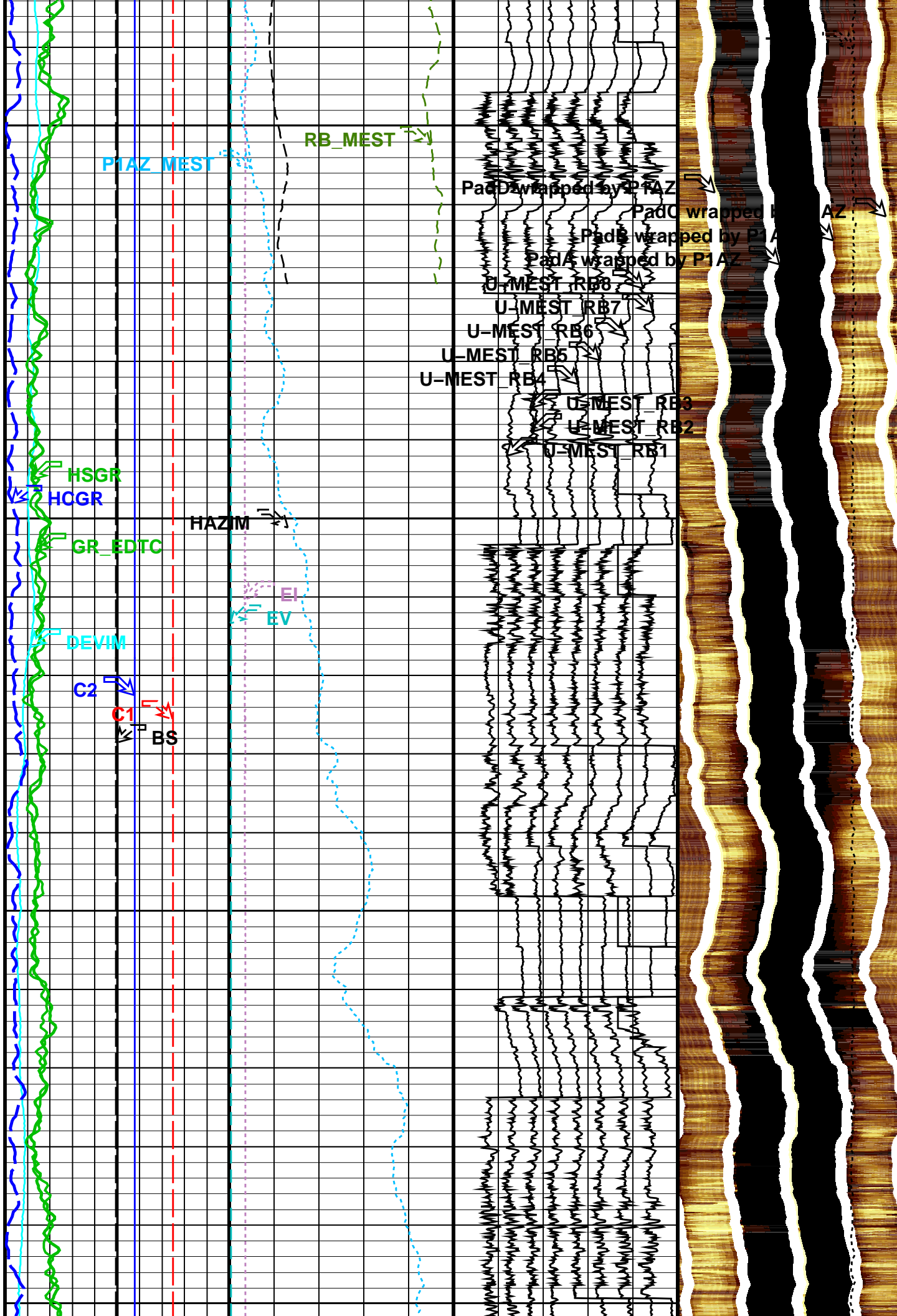
OP System Version: 19C0–187

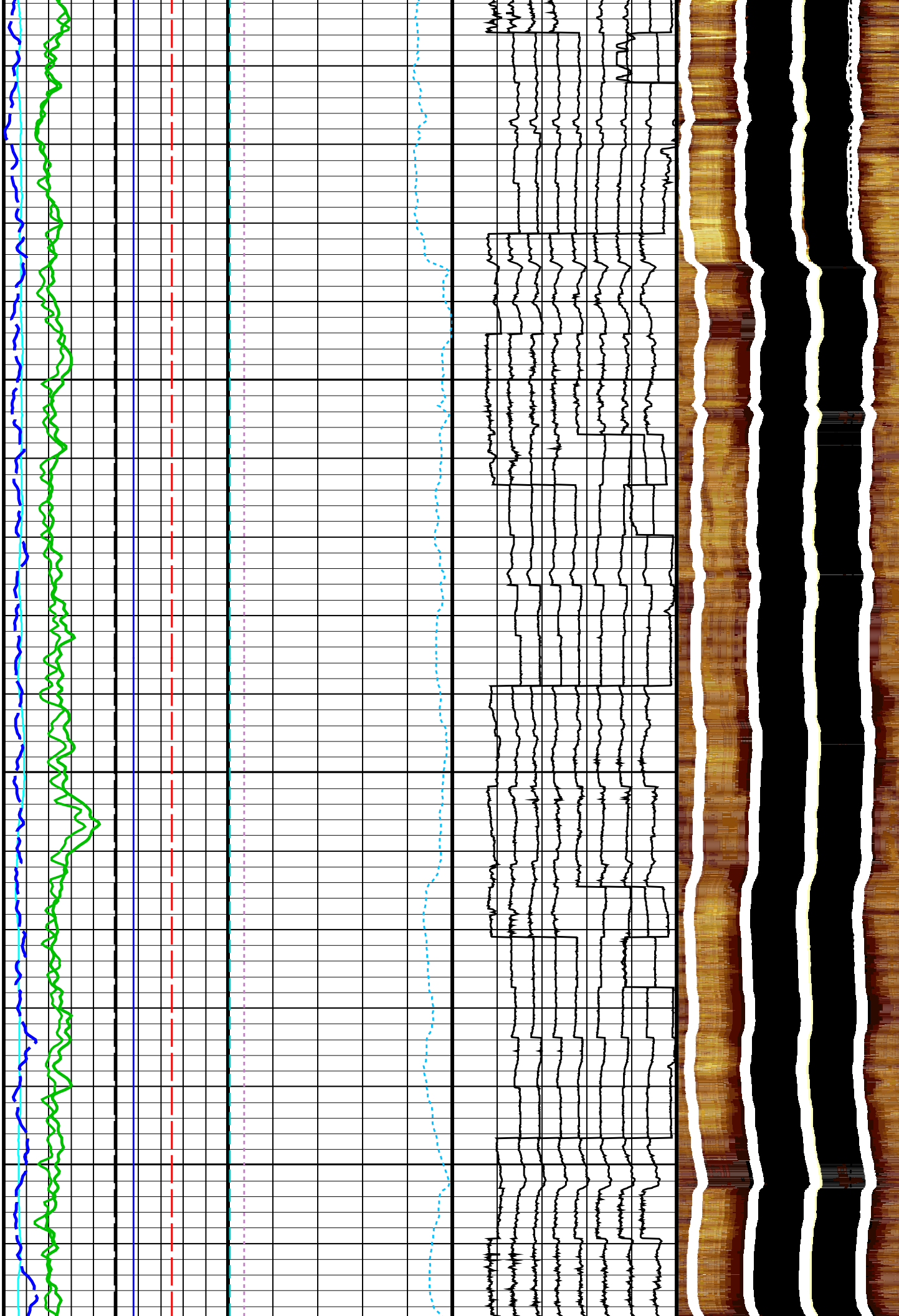
MEST–B	19C0–187	DTA–A	19C0–187
DSST–B	19C0–187	HNGC–B	19C0–187
HNGS–BA	19C0–187	EDTC–B	SKK–5169–EDTCB



200

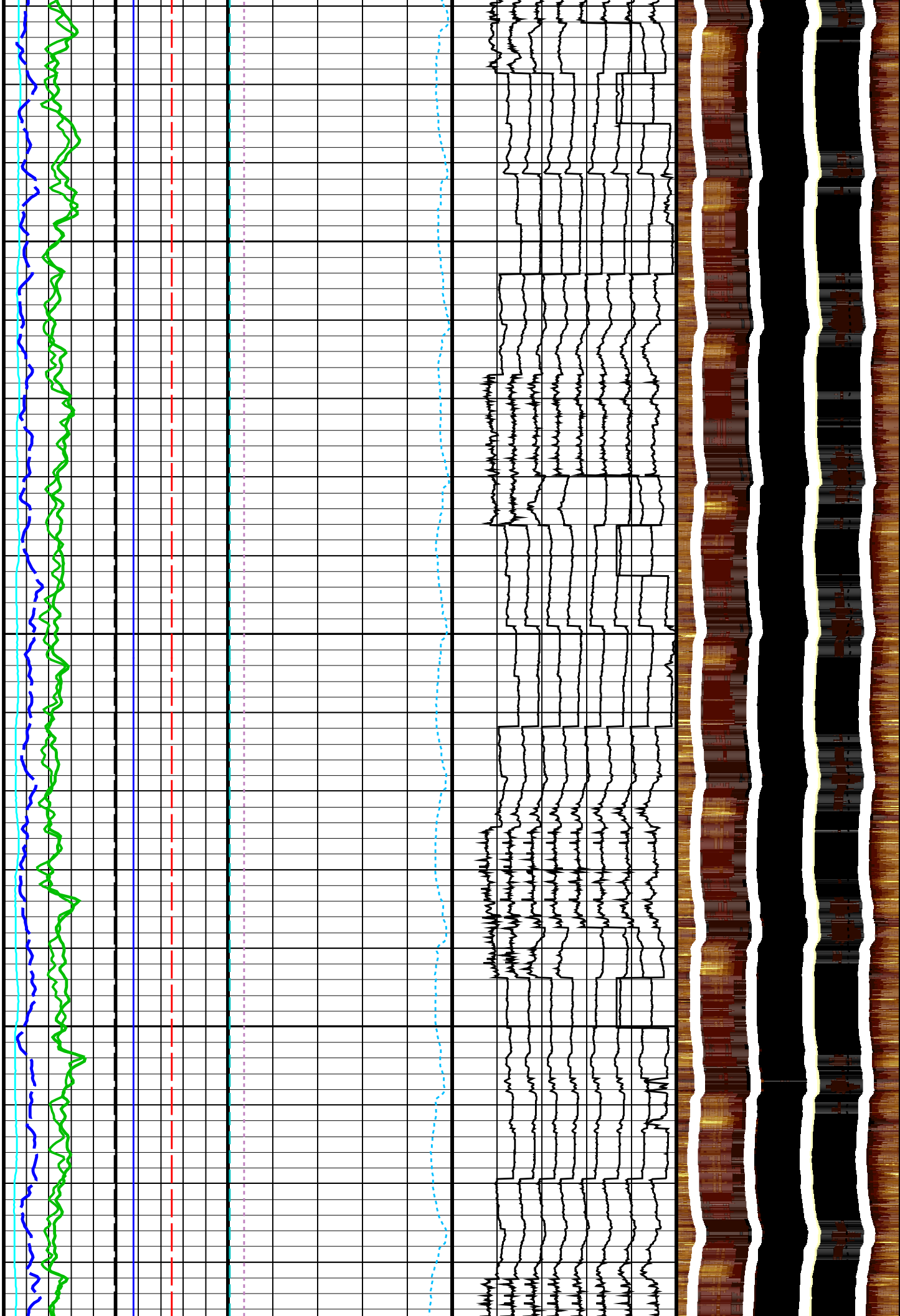
250





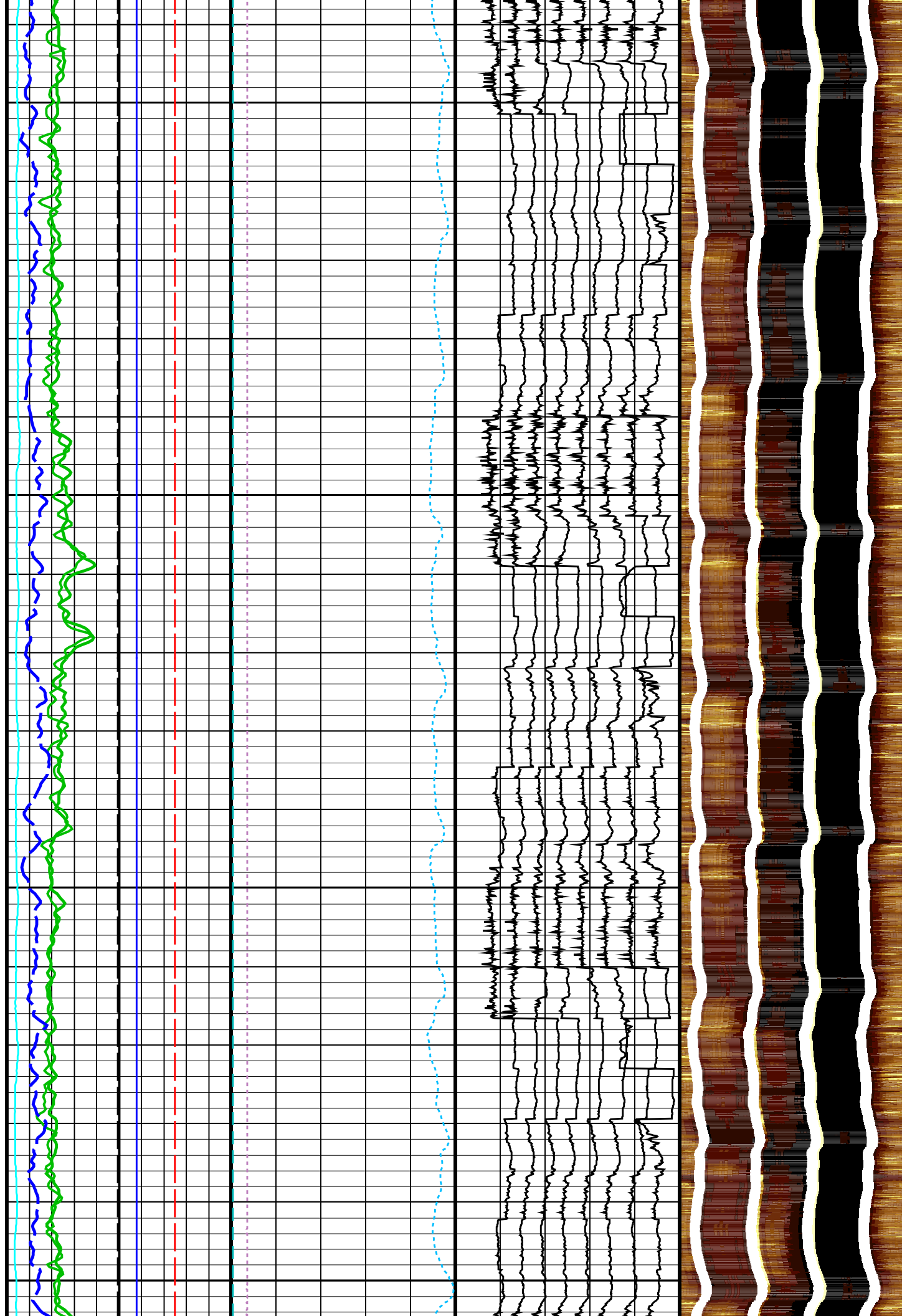
350

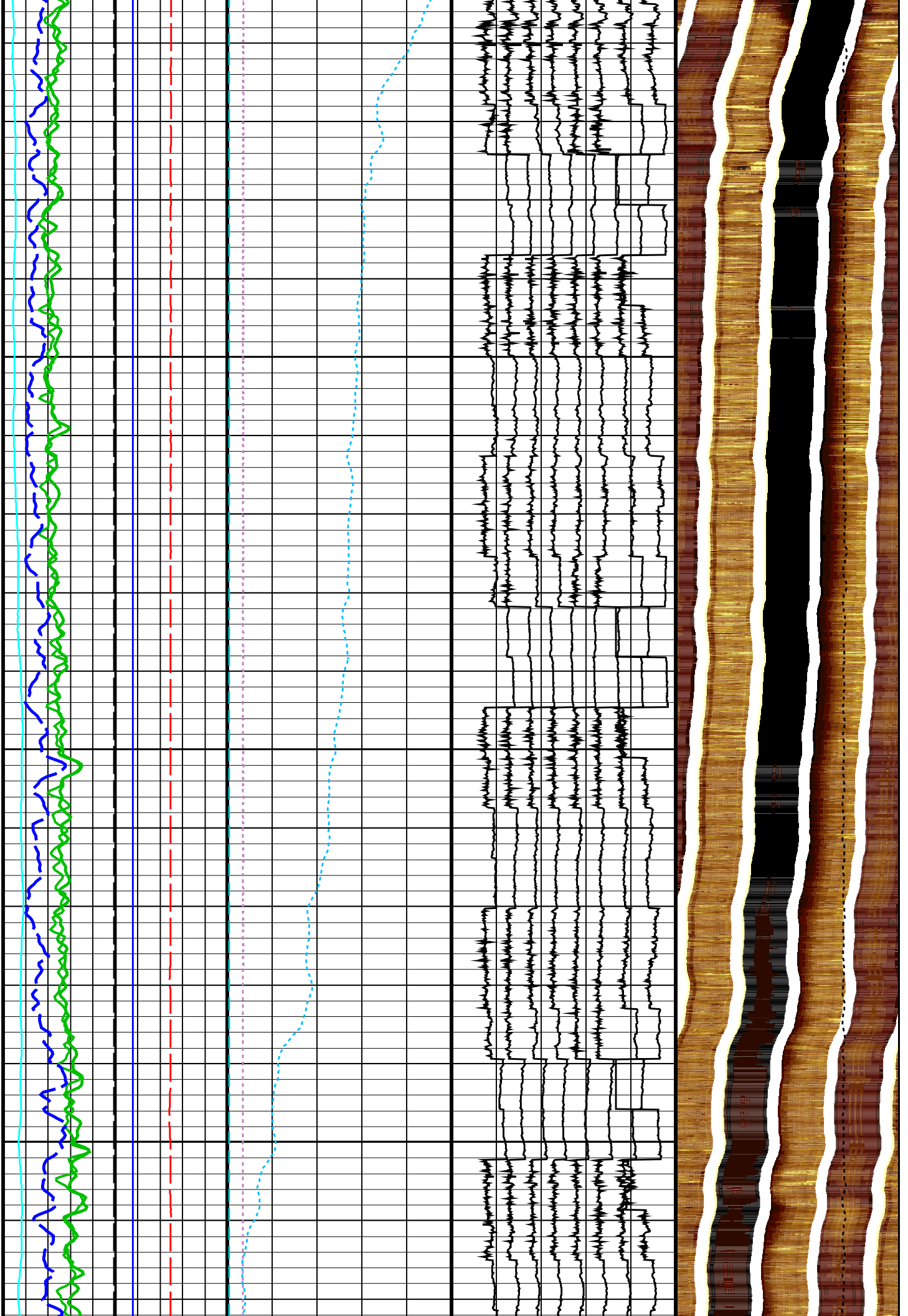
400



450

500

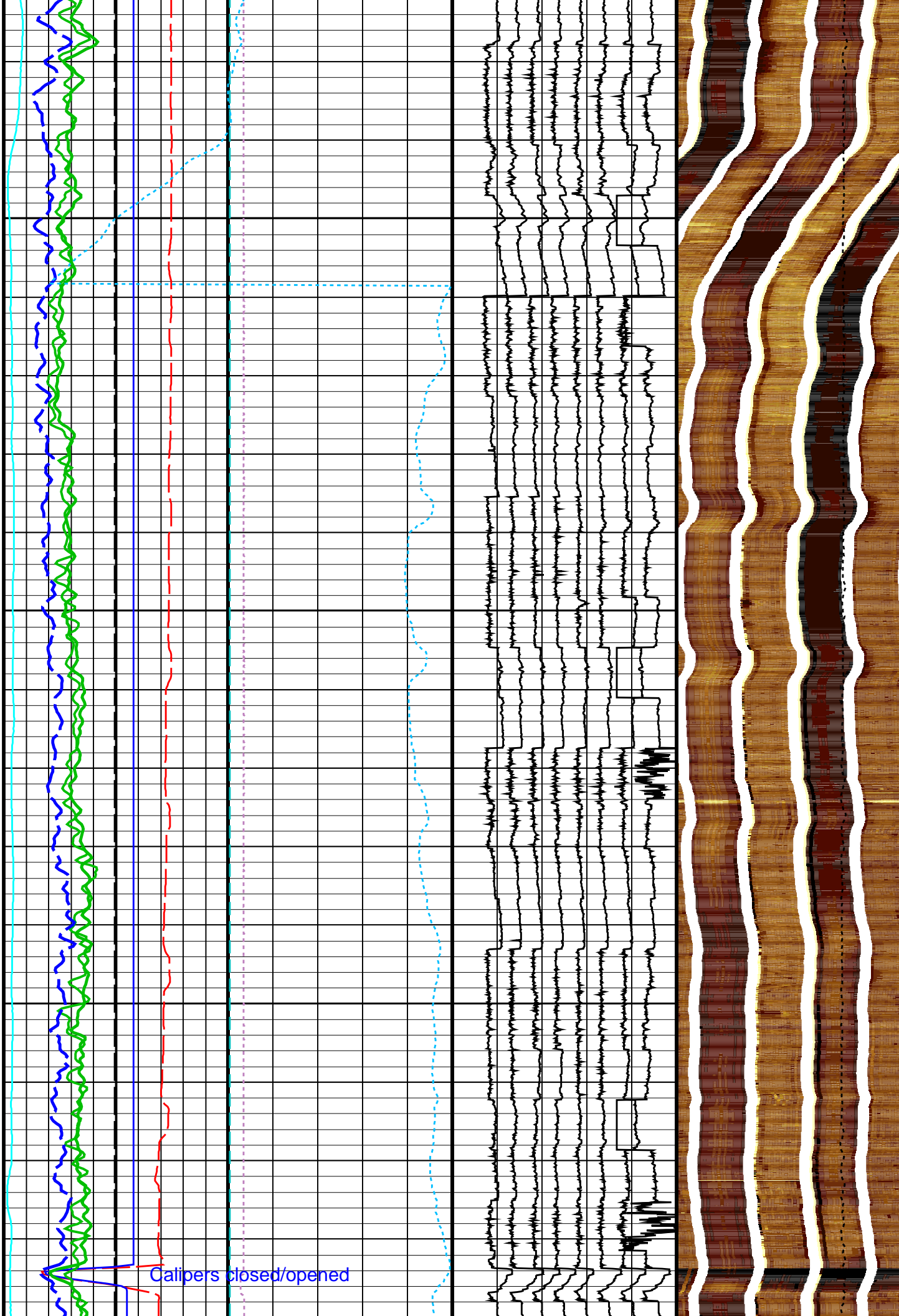


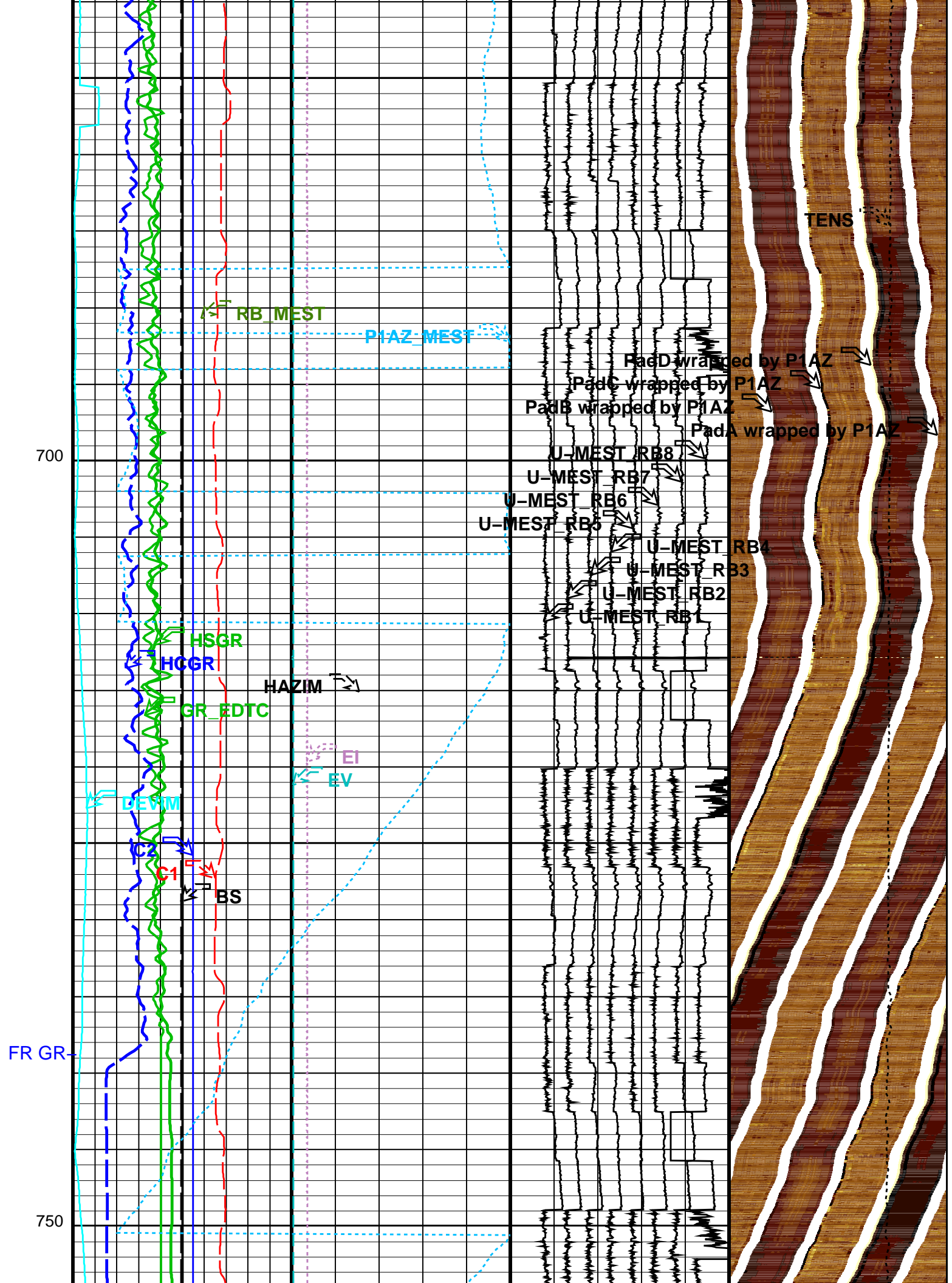


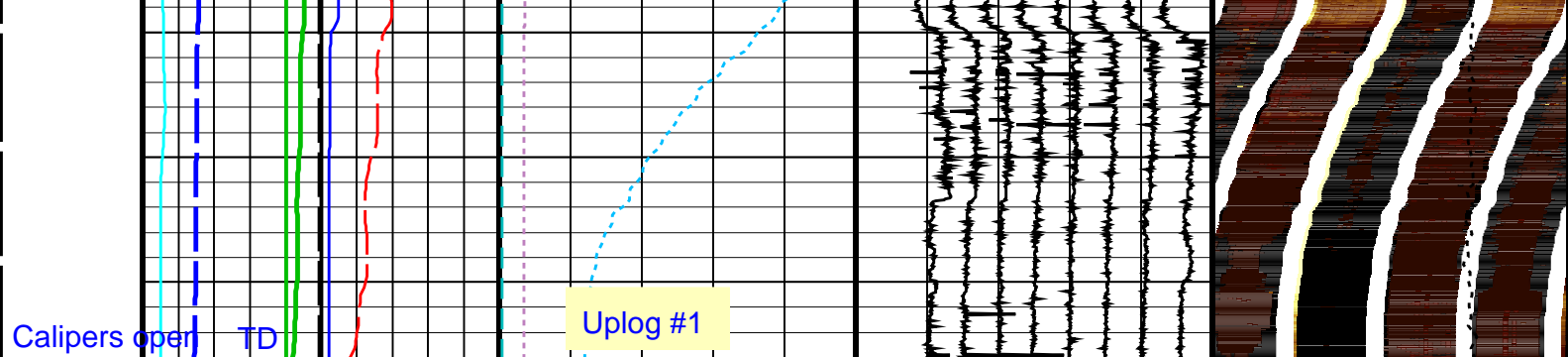
600

650

Calipers closed/opened







<div>Caliper 1 (C1)</div> <div>(IN)</div> <div>020</div>	<div>EMEX Voltage (EV)</div> <div>(V)</div> <div>050</div>	<div>Data Button 1 – Varies with RBS (U-MEST_RB1)</div> <div>(----)</div> <div>-1090</div>	<div>Tension (TENS)</div> <div>(LBF)</div> <div>100000</div>
<div>Caliper 2 (C2)</div> <div>(IN)</div> <div>020</div>	<div>EMEX Intensity (EI)</div> <div>(AMPS)</div> <div>010</div>	<div>Data Button 2 – Varies with RBS (U-MEST_RB2)</div> <div>(----)</div> <div>-2080</div>	<div>0.3776</div> <div>1.8629</div> <div>2.4571</div> <div>2.9027</div> <div>3.3482</div> <div>3.6453</div> <div>3.9424</div> <div>4.2394</div> <div>4.6850</div> <div>5.1306</div> <div>5.4277</div> <div>6.0218</div> <div>6.6159</div> <div>7.6557</div> <div>9.4517</div> <div>12.4086</div> <div>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS)</div> <div>(----)</div>
<div>Deviation (DEVIM)</div> <div>(DEG)</div> <div>010</div>		<div>Data Button 3 – Varies with RBS (U-MEST_RB3)</div> <div>(----)</div> <div>-3070</div>	<div>0.3776</div> <div>1.8629</div> <div>2.4571</div> <div>2.9027</div> <div>3.3482</div> <div>3.6453</div> <div>3.9424</div> <div>4.2394</div> <div>4.6850</div> <div>5.1306</div> <div>5.4277</div> <div>6.0218</div> <div>6.6159</div> <div>7.6557</div> <div>9.4517</div> <div>12.4086</div> <div>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS)</div> <div>(----)</div>
<div>Hole Azimuth (HAZIM)</div> <div>(DEG)</div> <div>-40360</div>		<div>Data Button 4 – Varies with RBS (U-MEST_RB4)</div> <div>(----)</div> <div>-4060</div>	<div>0.3776</div> <div>1.8629</div> <div>2.4571</div> <div>2.9027</div> <div>3.3482</div> <div>3.6453</div> <div>3.9424</div> <div>4.2394</div> <div>4.6850</div> <div>5.1306</div> <div>5.4277</div> <div>6.0218</div> <div>6.6159</div> <div>7.6557</div> <div>9.4517</div> <div>12.4086</div> <div>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS)</div> <div>(----)</div>
<div>Pad One Azimuth (P1AZ_MEST)</div> <div>(DEG)</div> <div>-40360</div>		<div>Data Button 5 – Varies with RBS (U-MEST_RB5)</div> <div>(----)</div> <div>-5050</div>	<div>0.3776</div> <div>1.8629</div> <div>2.4571</div> <div>2.9027</div> <div>3.3482</div> <div>3.6453</div> <div>3.9424</div> <div>4.2394</div> <div>4.6850</div> <div>5.1306</div> <div>5.4277</div> <div>6.0218</div> <div>6.6159</div> <div>7.6557</div> <div>9.4517</div> <div>12.4086</div> <div>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)</div> <div>(----)</div>
<div>Relative Bearing (RB_MEST)</div> <div>(DEG)</div> <div>-40360</div>		<div>Data Button 6 – Varies with RBS (U-MEST_RB6)</div> <div>(----)</div> <div>-6040</div>	
<div>Bit Size (BS)</div> <div>(IN)</div> <div>020</div>		<div>Data Button 7 – Varies with RBS (U-MEST_RB7)</div> <div>(----)</div> <div>-7030</div>	
<div>Gamma Ray (GR_EDTC)</div> <div>(GAPI)</div> <div>0100</div>		<div>Data Button 8 – Varies with RBS (U-MEST_RB8)</div> <div>(----)</div> <div>-8020</div>	
<div>HNGS Computed Gamma Ray (HCGR)</div> <div>(GAPI)</div> <div>0100</div>			
<div>HNGS Spectroscopy Gamma Ray (HSGR)</div> <div>(GAPI)</div> <div>0100</div>			

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
AFMO	MEST-B: Micro Electrical Scanner – B (Slim)	MOVING AVERAGE
ICMC	Accelerometer Filtering Mode	AUTOMATIC SELECTION

ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	0.99795	DEG
MDEC	Magnetic Field Declination	SCAN1800		
MLM	MEST Logging Mode	AUTO		
RBS	Resistivity Button Selection	GAIN_2		
XGAI	Gain	OFFSET_0		
XOFF	Offset			
	DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN		
GCSE	Generalized Caliper Selection	C1		
	HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1		
BAR2	HNGS Detector 2 Barite Constant	1		
BHK	HNGS Borehole Potassium Correction Concentration	0		
BHS	Borehole Status	OPEN		
CSD1	Inner Casing Outer Diameter	0	IN	
CSD2	Outer Casing Outer Diameter	0	IN	
CSW1	Inner Casing Weight	0	LB/F	
CSW2	Outer Casing Weight	0	LB/F	
DBCC	HNGS Barite Constant Correction Flag	NONE		
GCSE	Generalized Caliper Selection	C1		
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW		
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW		
HABK	HNGS Borehole Potassium Running Average	-0.00300711		
HALF	HNGS Alpha Filter Length	60	IN	
HCRB	HNGS Apply Borehole Potassium Correction	NONE		
HMWM	Mud Weighting Material	BARI		
HNPE	HNGS Processing Enable	YES		
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES		
TPOS	Tool Position	ECCE		
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.11669		
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.972617		
	EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN		
GCSE	Generalized Caliper Selection	C1		
	System and Miscellaneous			
BS	Bit Size	9.875	IN	
DO	Depth Offset for Playback	-97.5	M	
PP	Playback Processing	NORMAL		

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:300 Graphics File Created: 18-Sep-2015 16:44

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_025LUP	FN:37	PRODUCER	11-Sep-2015 16:56	866.4 M	240.0 M
---------	--------------------	-------	----------	-------------------	---------	---------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_061PUP	FN:65	PRODUCER	18-Sep-2015 16:44		
---------	--------------------	-------	----------	-------------------	--	--

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: Calibration out of date 5-Aug-2015 16:41							
Caliper 1 Zero Measurement	12.00	N/A	12.07	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	11.92	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.13	N/A	15.36	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.13	N/A	15.29	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 3-Sep-2015 20:42							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	

Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 3–Sep–2015 20:42							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 31–Jul–2015 10:01 Before: 5–Aug–2015 7:59							
Na 511 Peak Loc	40.00	37.71	37.63	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.11	15.42	N/A	N/A	2.000	%
High Voltage	1150	1211	1201	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	136.7	136.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	10.13	8.646	N/A	N/A	2.000	%
Temperature	15.50	22.16	22.65	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	43.96	43.37	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 31–Jul–2015 10:01 Before: 5–Aug–2015 7:59							
Na 511 Peak Loc	40.00	39.69	39.55	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.27	16.42	N/A	N/A	2.000	%
High Voltage	1150	1084	1083	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	143.4	143.2	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.457	8.664	N/A	N/A	2.000	%
Temperature	15.50	21.65	22.00	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	44.18	43.52	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 31–Jul–2015 10:01 Before: 5–Aug–2015 7:59							
Coincidence Count Rate Ratio	1.000	0.9887	0.9903	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration							
Master: 31–Jul–2015 9:56							
Na 511 Peak Set Point	40.00	39.00	--	--	--	--	
Th Peak Loc	209.6	206.7	--	--	--	--	
Th Peak Res	7.000	8.351	--	--	--	--	%
Background Count Rate	142.5	37.67	--	--	--	--	CPS
Gain Ratio	1.000	1.042	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration							
Master: 31–Jul–2015 9:56							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.5	--	--	--	--	
Th Peak Res	7.000	6.877	--	--	--	--	%
Background Count Rate	142.5	39.84	--	--	--	--	CPS
Gain Ratio	1.000	1.014	--	--	--	--	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 10–Sep–2015 23:00							
EDTC Z–Axis Acceleration	9.810	N/A	9.820	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: Calibration out of date 5–Aug–2015 7:56							
Gamma Ray (Jig – Bkg)	152.3	N/A	152.3	N/A	N/A	13.85	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	15.00	GAPI

Micro Electrical Scanner – B (Slim) / Equipment Identification		
Primary Equipment:		
MEST Sonde – B	MEDS – B	770
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	804
Auxiliary Equipment:		
MEST–B Preamplifier Cartridge Housing	MEPH – A	701
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	726

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification		
Primary Equipment:		
HNGC Cartridge	HNGC – B	439
Auxiliary Equipment:		
HNGC Housing	HNGH – A	380

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:
HNGS Sonde

HNGS – BA 177

Auxiliary Equipment:
HNGS Sonde Housing
Gamma Source Radioactive

HNSH – BA 174
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		37.71	Master		16.11	Master		1211
Before		37.63	Before		15.42	Before		1201
	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		136.7	Master		10.13	Master		22.16
Before		136.8	Before		8.646	Before		22.65
	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		43.96						
Before		43.37						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							

Master: 31-Jul-2015 10:01

Before: 5-Aug-2015 7:59

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.69	Master		15.27	Master		1084
Before		39.55	Before		16.42	Before		1083
	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		143.4	Master		8.457	Master		21.65
Before		143.2	Before		8.664	Before		22.00
	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		44.18						
Before		43.52						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							

Master: 31-Jul-2015 10:01

Before: 5-Aug-2015 7:59

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9887
Before		0.9903
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 31-Jul-2015 10:01		
Before: 5-Aug-2015 7:59		

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 1 Calibration

Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value			
Master	<div><div></div></div>		39.00	Master	<div><div></div></div>		206.7	Master	<div><div></div></div>		8.351			
38.00 (Minimum)			40.00 (Nominal)	201.0 (Minimum)			209.6 (Nominal)	5.000 (Minimum)			7.000 (Nominal)	9.000 (Maximum)		
43.00 (Maximum)				218.3 (Maximum)										
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value							
Master	<div><div></div></div>		37.67	Master	<div><div></div></div>		1.042							
10.00 (Minimum)			142.5 (Nominal)	0.9400 (Minimum)			1.000 (Nominal)					1.060 (Maximum)		
265.0 (Maximum)														
Master: 31-Jul-2015 9:56														

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 2 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			211.5	Master			6.877
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			39.84	Master			1.014				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 31-Jul-2015 9:56											

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

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.820
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 10-Sep-2015 23:00		

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		9.594	Before		152.3	Before		164.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			138.5 (Minimum) 152.3 (Nominal) 166.2 (Maximum)			149.0 (Minimum) 164.0 (Nominal) 179.0 (Maximum)	
Before: Calibration out of date 5-Aug-2015 7:56								

Company: **International Ocean Discovery Program**

Schlumberger

Well: **Expedition 356, Site U1462 C**

Field: **Indonesian Throughflow**

Rig: **JOIDES Resolution**

Ocean: **Indian**

Formation Micro Scanner (FMS)
Dipole Sonic P&S Compressional (DSI)
Natural Gamma Ray (HNGS)