



Company: International Ocean Discovery Program

Well: **Expedition 395C, Site U1564C**

Field: **North Atlantic Mantle Convection&Climate**Rig: **JOIDES Resolution** Ocean: **Atlantic**

Rig: JOIDES Resolution Field: North Atlantic Mantle Convection Location: Latitude: N 59.85062 Well: Expedition 395C, Site U1564C Company: International Ocean Discovery Program	Formation Micro Scanner (FMS) Dipole Shear Sonic (DSI) Natural Gamma (HNGS)				
	LOCATION	Latitude: N 59.85062 Longitude: W 23.2668		Elev.: K.B. 0.00 m G.L. -2219.50 m D.F. 0.00 m	
		Permanent Datum: Sea Floor		Elev.: -2219.50 m	
		Log Measured From: Rig Floor		2219.50 m above Perm. Datum	
		Drilling Measured From: Rig Floor			
API Serial No.		Max. Hole Devi. 5.9 deg	Longitude W 23.2668	Latitude N 59.85062	

Logging Date			4-Aug-2021					
Run Number			1					
Depth Driller			2848.4 m					
Schlumberger Depth			2847 m					
Bottom Log Interval			2847 m					
Top Log Interval			2218 m					
Casing Driller Size @ Depth			5.500 in @ 2299.6 m			@		
Casing Schlumberger			2296 m					
Bit Size			11.438 in					
Type Fluid In Hole			Sea Water					
MUD	Density	Viscosity	1.023 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	0.189 @ 30	@ 30	@	@	@	@	
Maximum Recorded Temperatures			30 degC					
Circulation Stopped		Time	3-Aug-2021		22:00			
Logger On Bottom		Time	4-Aug-2021		5:30			
Unit Number		Location	627314 Larose, LA					
Recorded By			K. Swain					
Witnessed By			Z. Mateo					

[illegible]

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



[illegible]

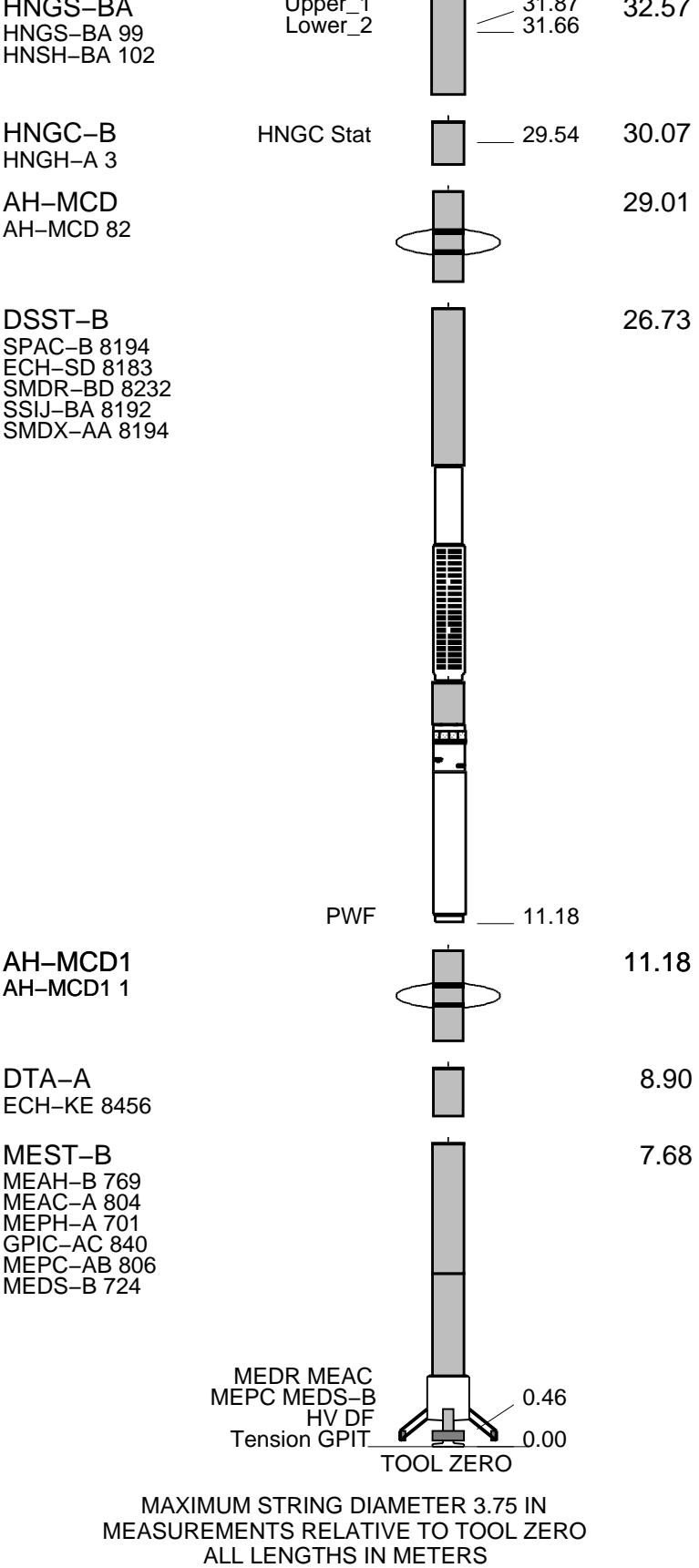
DISCLAIMER

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OTHER SERVICES1 OS1: MSS/HLRA/HLDS/APS/ OS2: OS3: OS4: OS5:			OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:		
REMARKS: RUN NUMBER 1			REMARKS: RUN NUMBER 2		
Hole drilled with APC/XCB bottom hole assembly (BHA) at 11.4375" BS					
Caliper closed and GR spikes denoted on log by: *see remarks due to dropping down to fix cable wrap on drum.					
Drill pipe set at 2299.6 mbrf.					
*Aps activation by run1 inside pipe, causing high GR in pipe, see log.					
Fluid type was seawater displaced in the hole prior to logging.					
Depth recorded from drill floor; logs presented as-logged without depth corrections or shifts, as per client instructions.					
All logs presented in wireline measured depth below rig floor (MDBRF).					
Caliper opened during upward passes; closed inside pipe and while logging down.					
Hole size corrections made using caliper measurements for upward passes bit size used for downlog corrections.					
AHC used from TD then switched off to facilitate pipe entry.					
Caliper closed prior to shutting off compensator and entering pipe or casing.					
Compressional slowness not well labeled in the upper part of the hole as the mud velocity is faster or similar to the formation velocity.					
Downlog flipped and note the caliper closed logging down.					
<div style="text-align: center;">RUN 1</div> SERVICE ORDER #: PROGRAM VERSION: 19C0-187 FLUID LEVEL:			<div style="text-align: center;">RUN 2</div> SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION
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RUN 1		RUN 2	
SURFACE EQUIPMENT			
GSR-U 6098 WITM (DTS)-A 1			
DOWNHOLE EQUIPMENT			
LEH-QT		34.81	
LEH-QT 301			
AH-369		33.92	
DTC-H	CTEM	33.21	
ECH-KC 9842	TelStatus	32.57	33.49
WING-DA	ToolStatu		
WING-DA	Wing-1	31.87	32.57



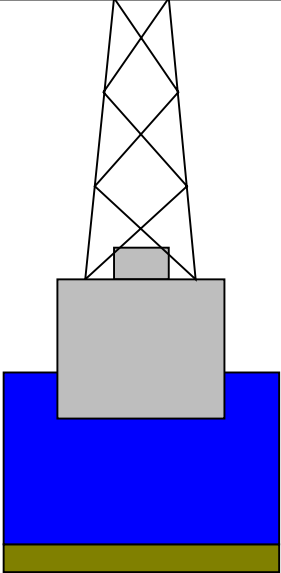
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	OD	

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

0
0

11



4.1



2219.5 4.1
2299.6 9.875

2848.4

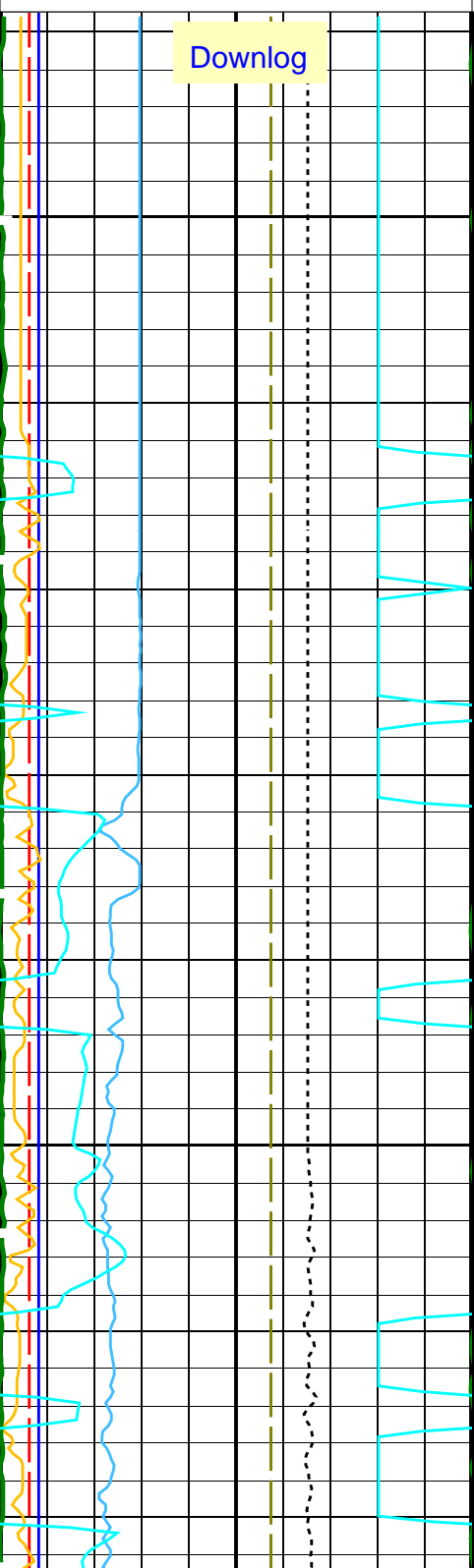
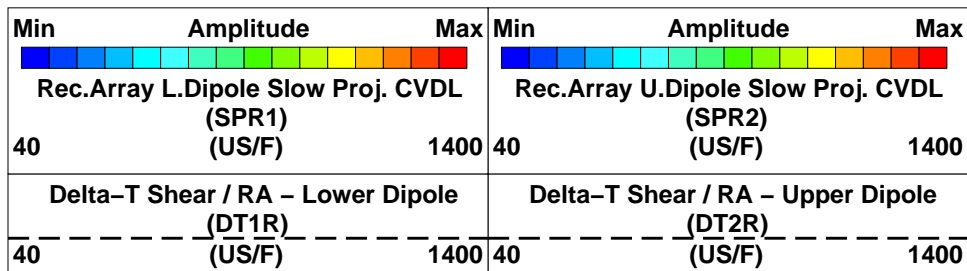
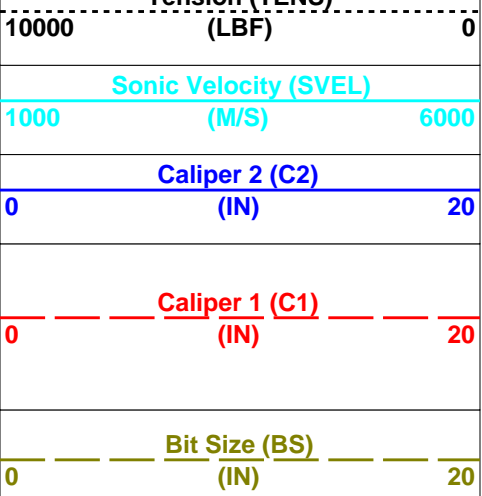
Sea Floor
Open Hole

Total Depth

Input DLIS Files						
DEFAULT	FMS_DSI_NGS_027PUP	FN:42	PRODUCER	04-Aug-2021 15:58	2816.7 M	2169.4 M
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_038PUP	FN:56	PRODUCER	05-Aug-2021 14:38	2816.4 M	2169.4 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		DTC-H	19C0-187		

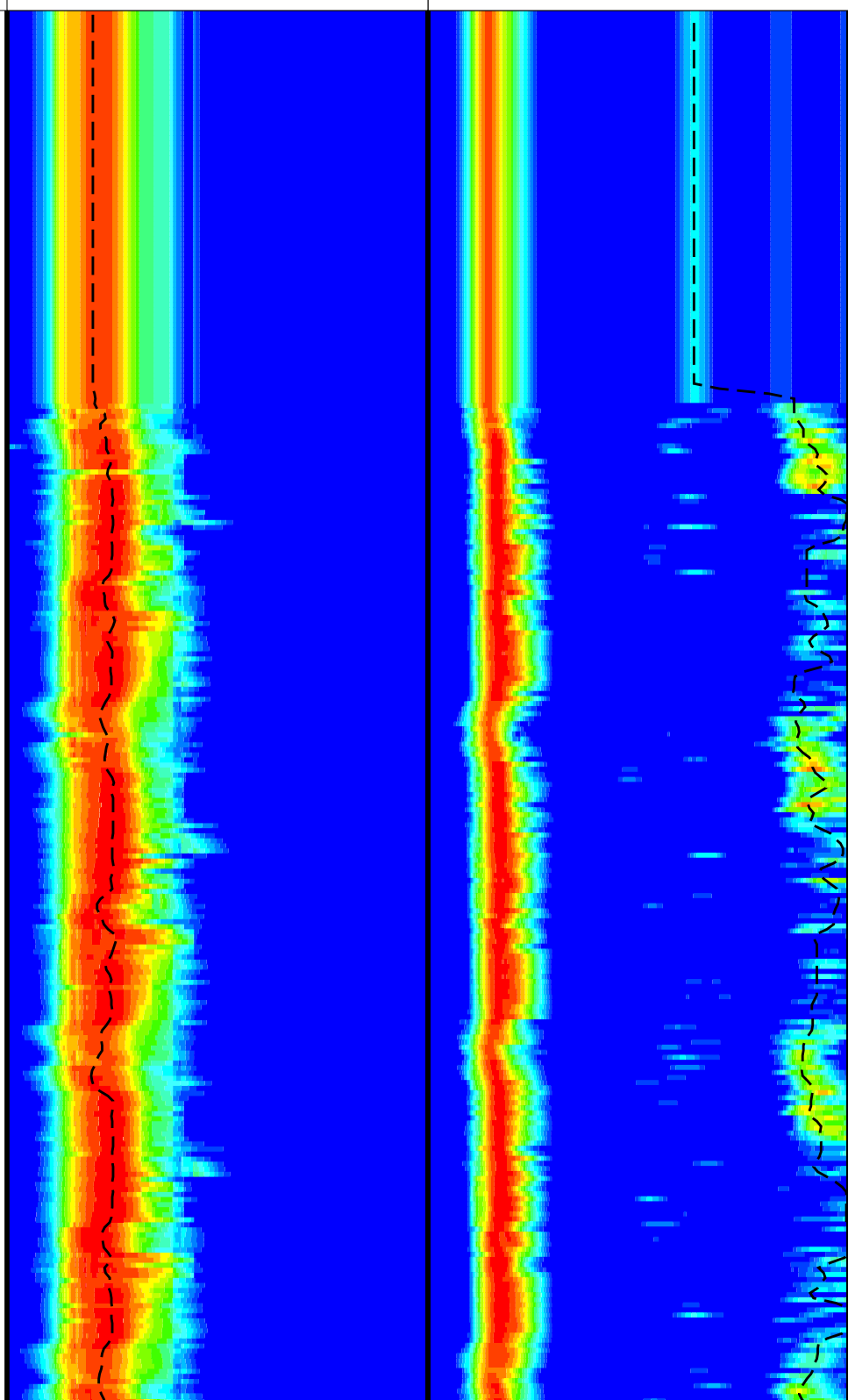
PIP SUMMARY	
 Time Mark Every 60 S	

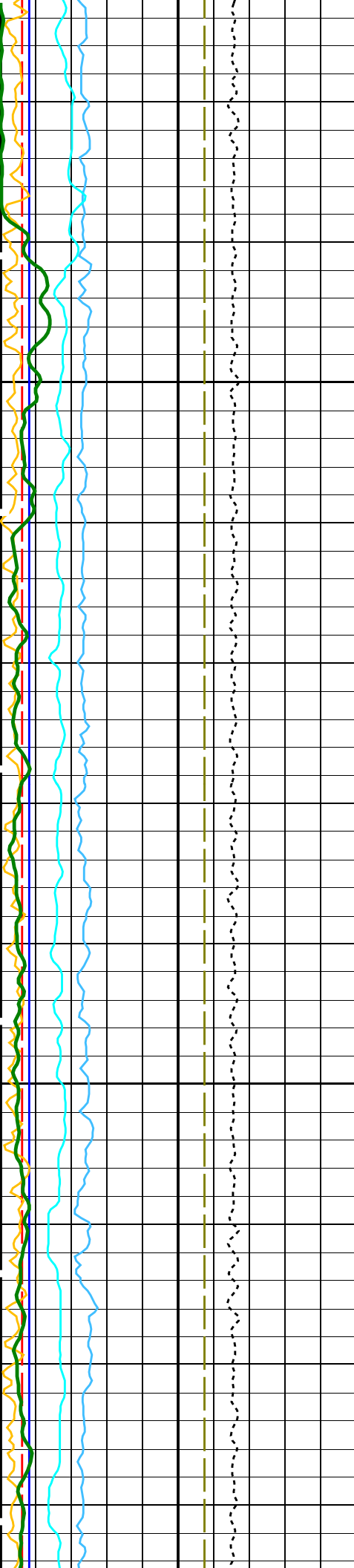
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Peak Coherence / TA – Upper Dipole (CHT2)		
-2	(----	8
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(----	10
Tension (TENS)		



2175

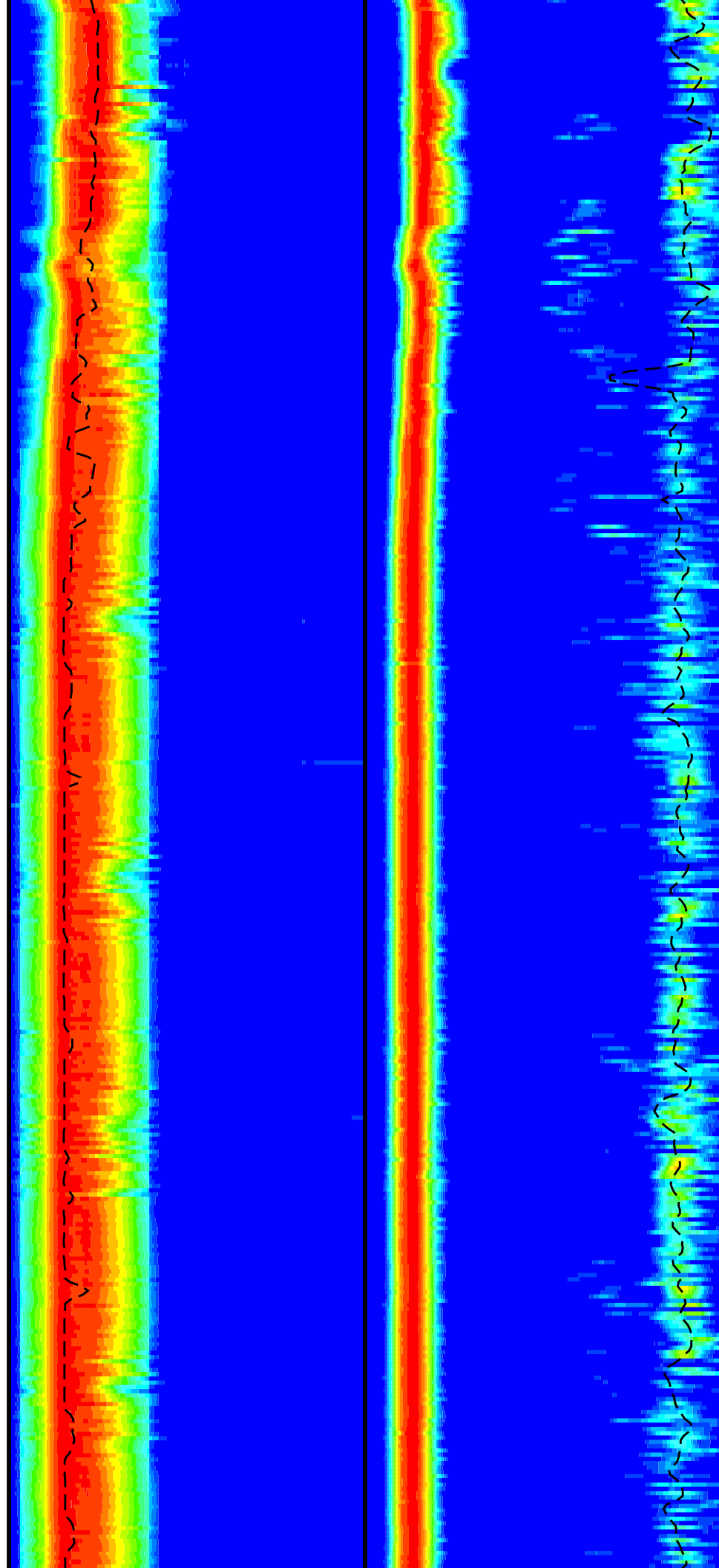
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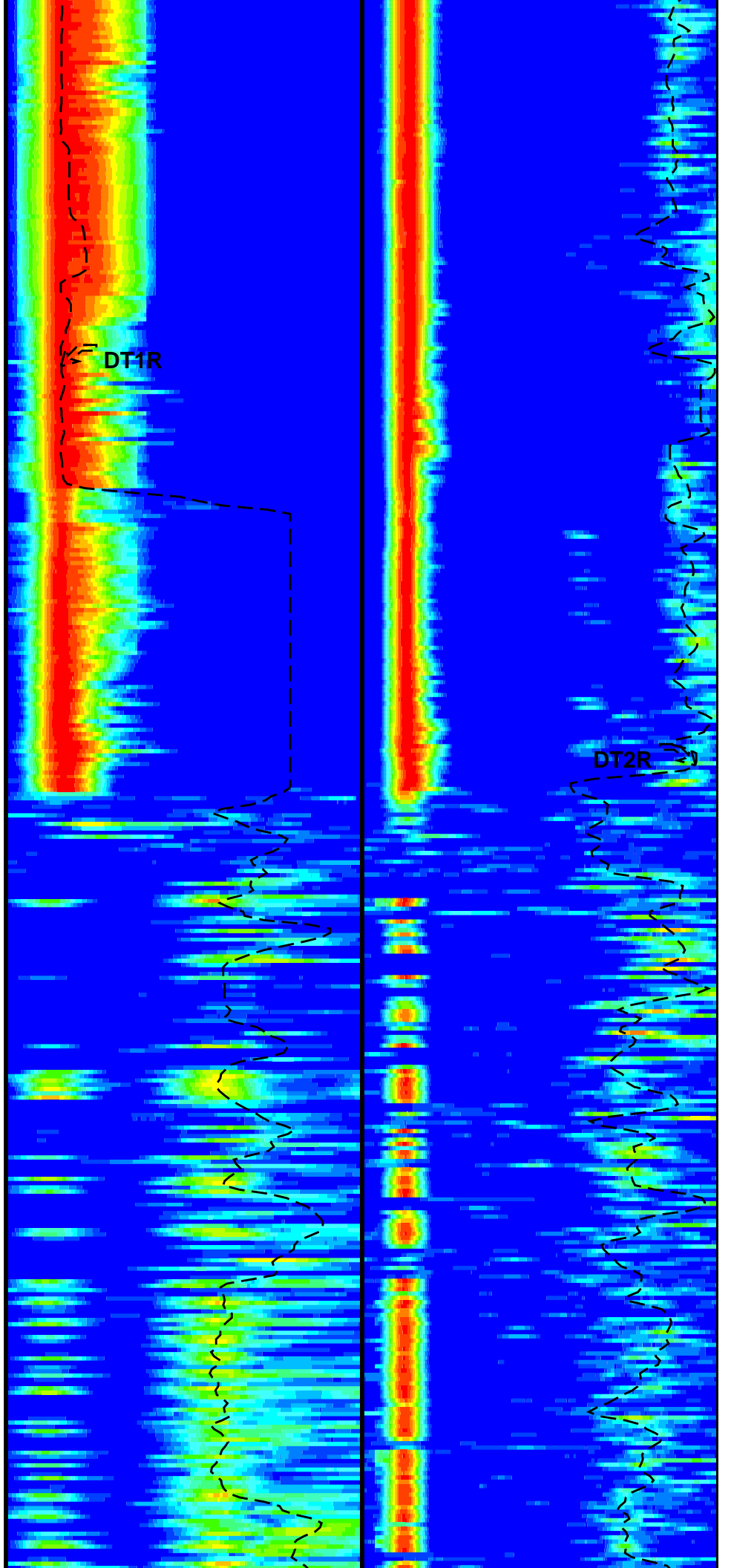
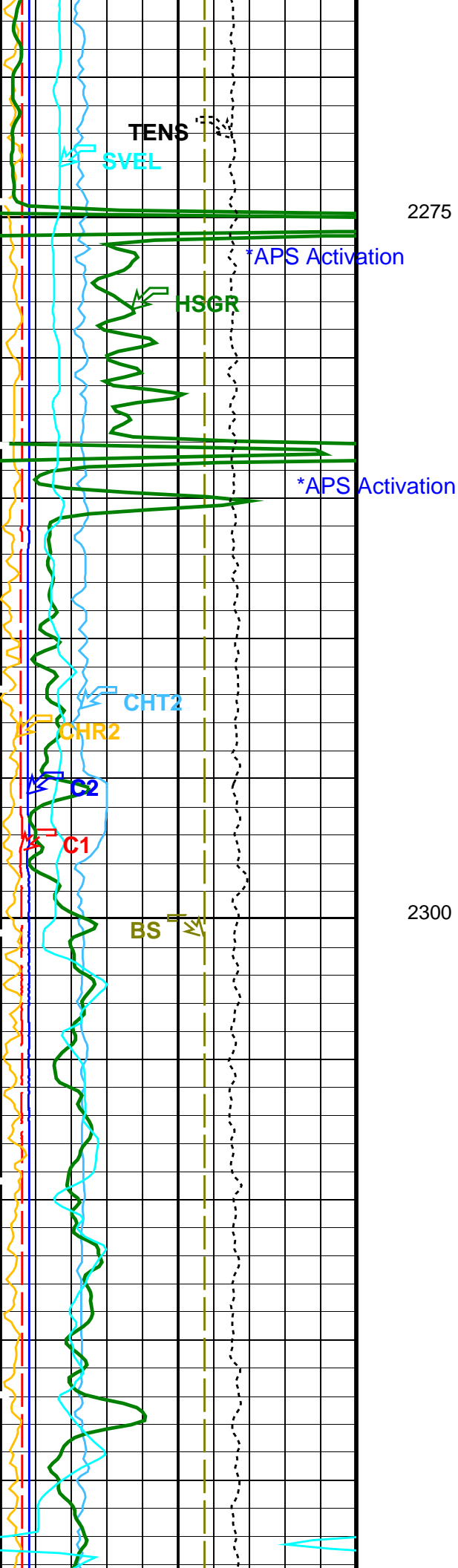


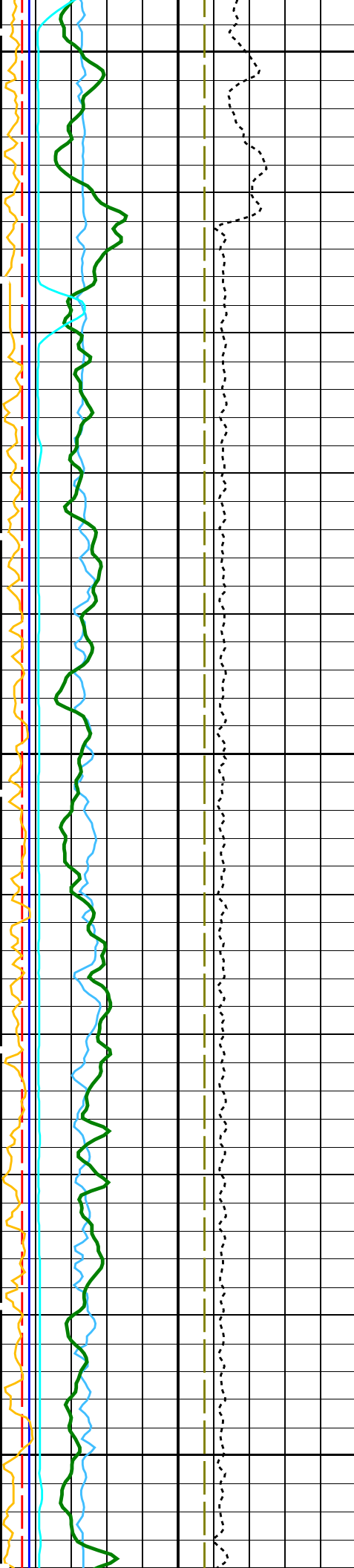


2225

2250



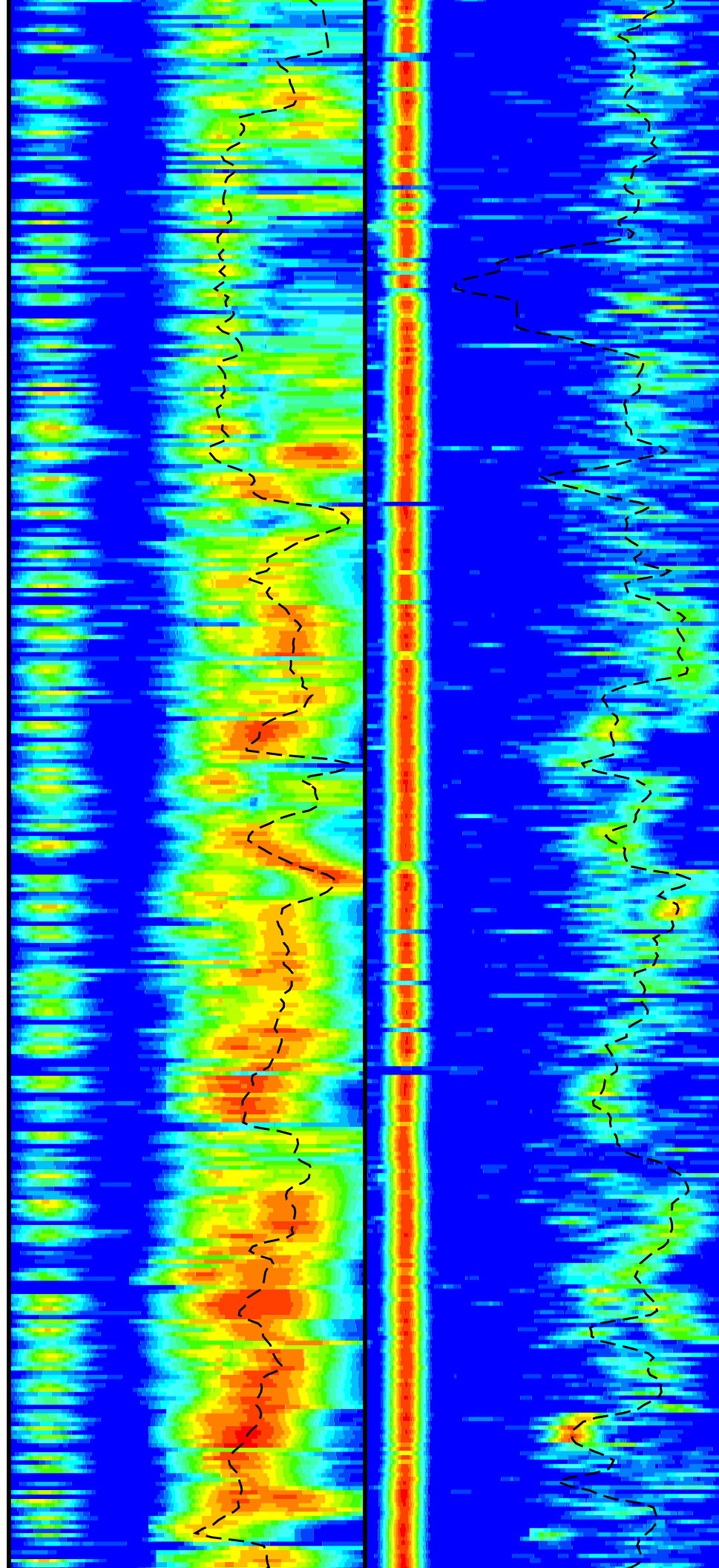


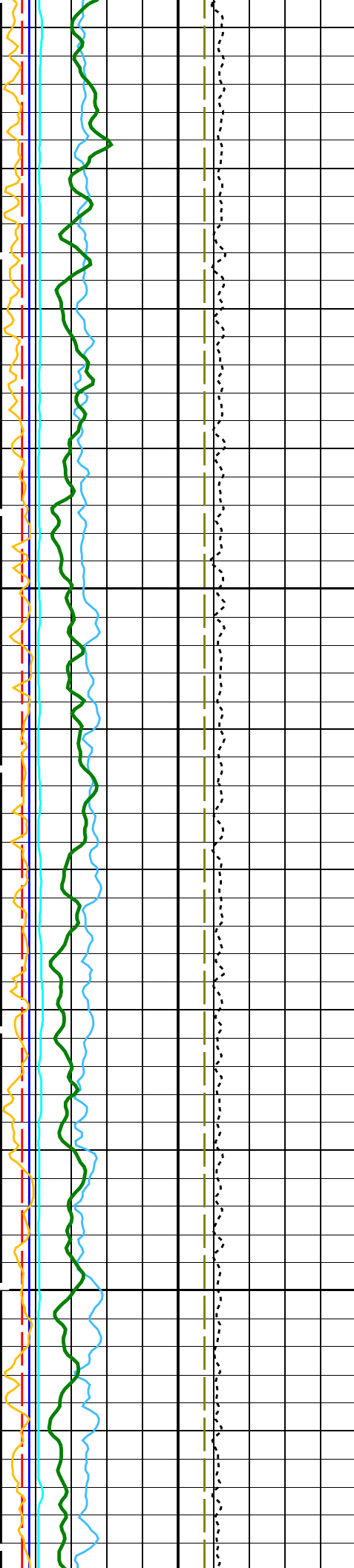


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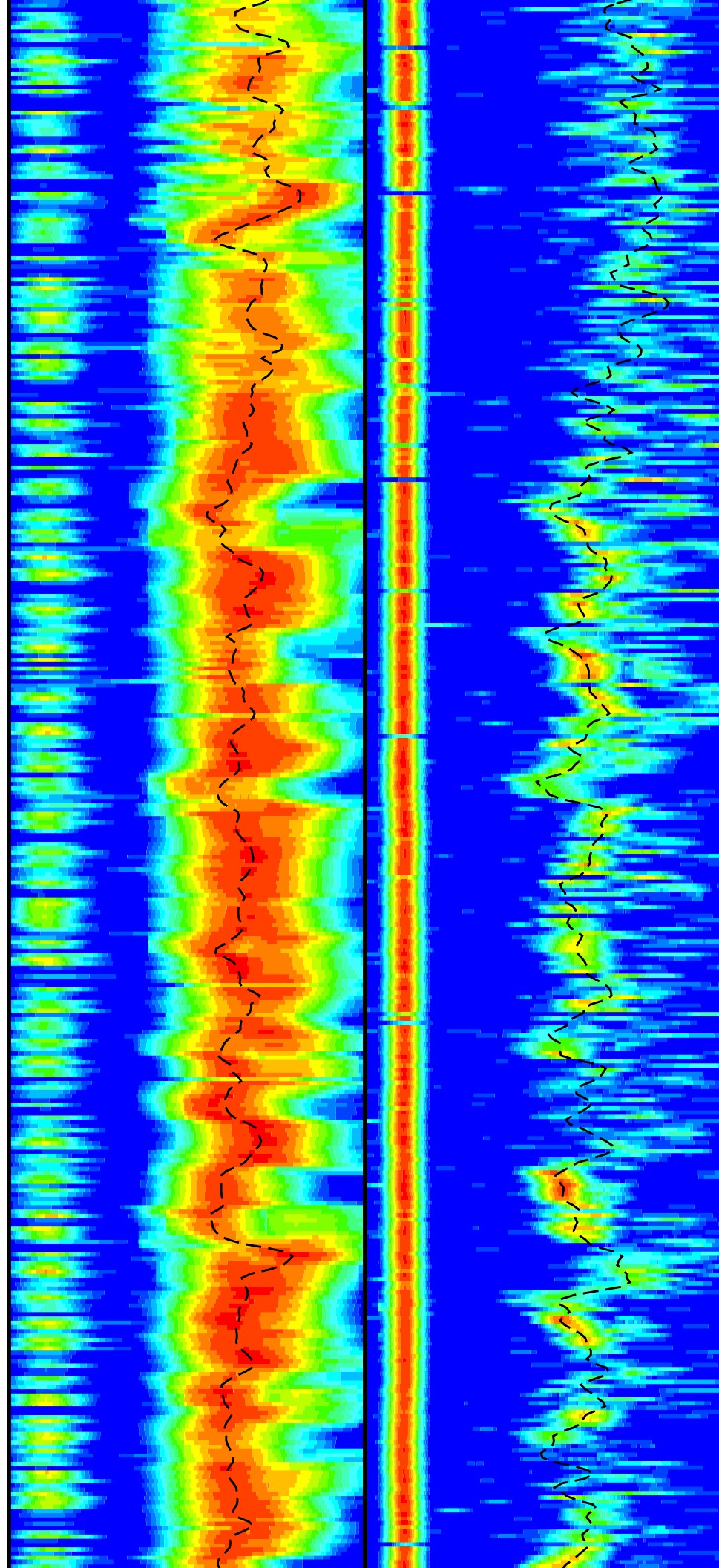
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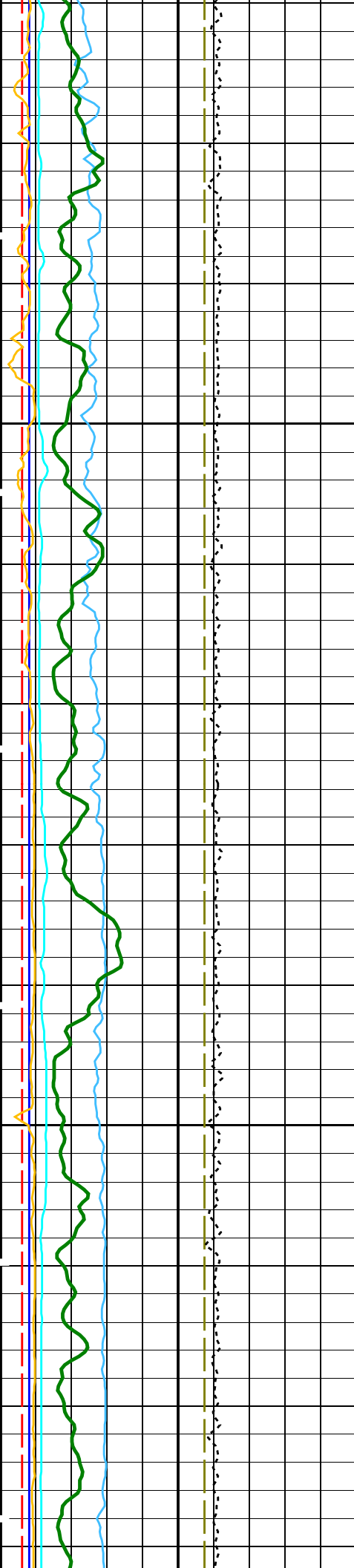




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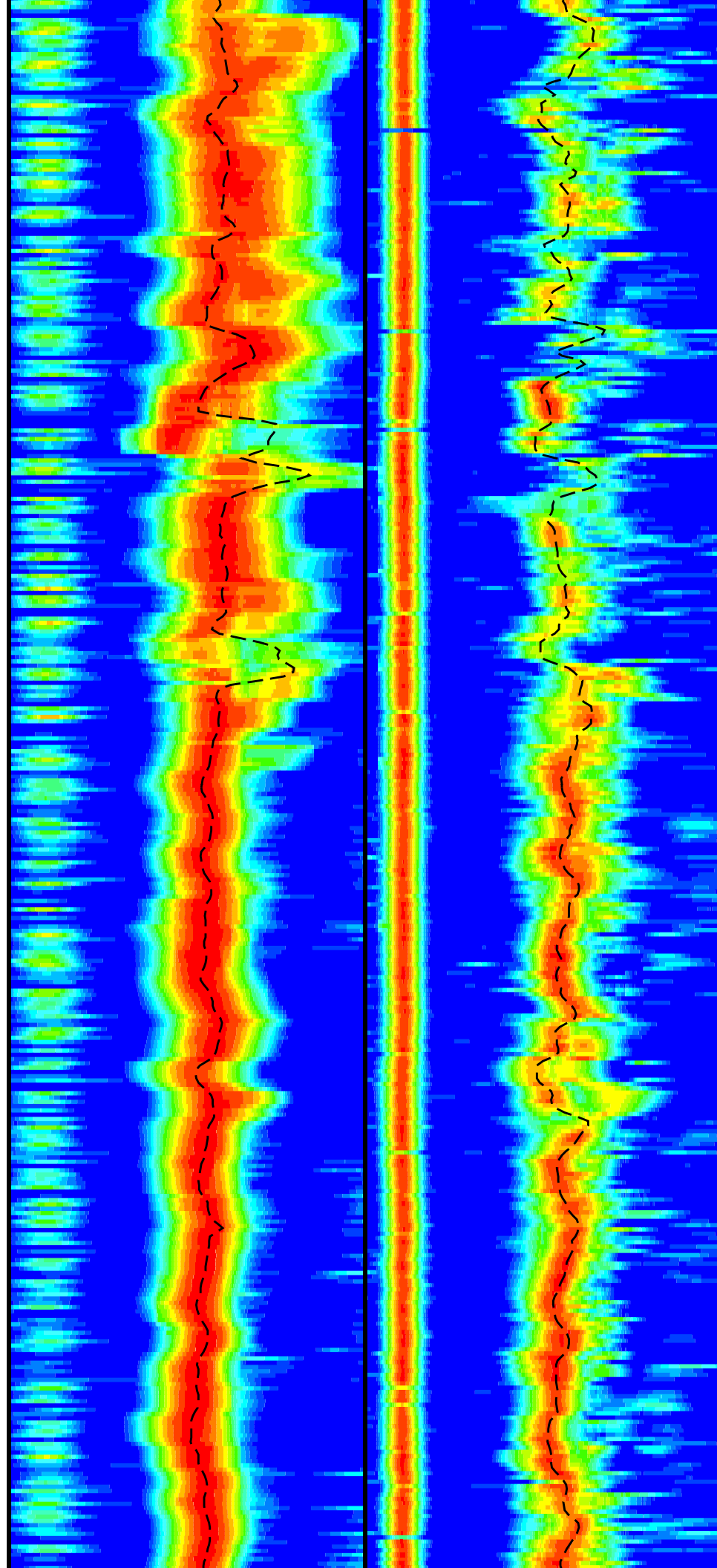
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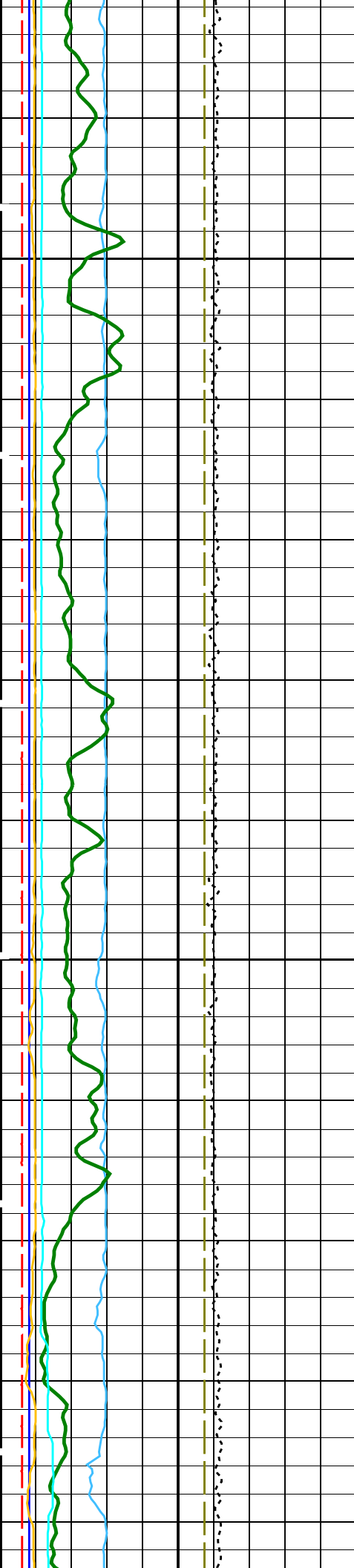




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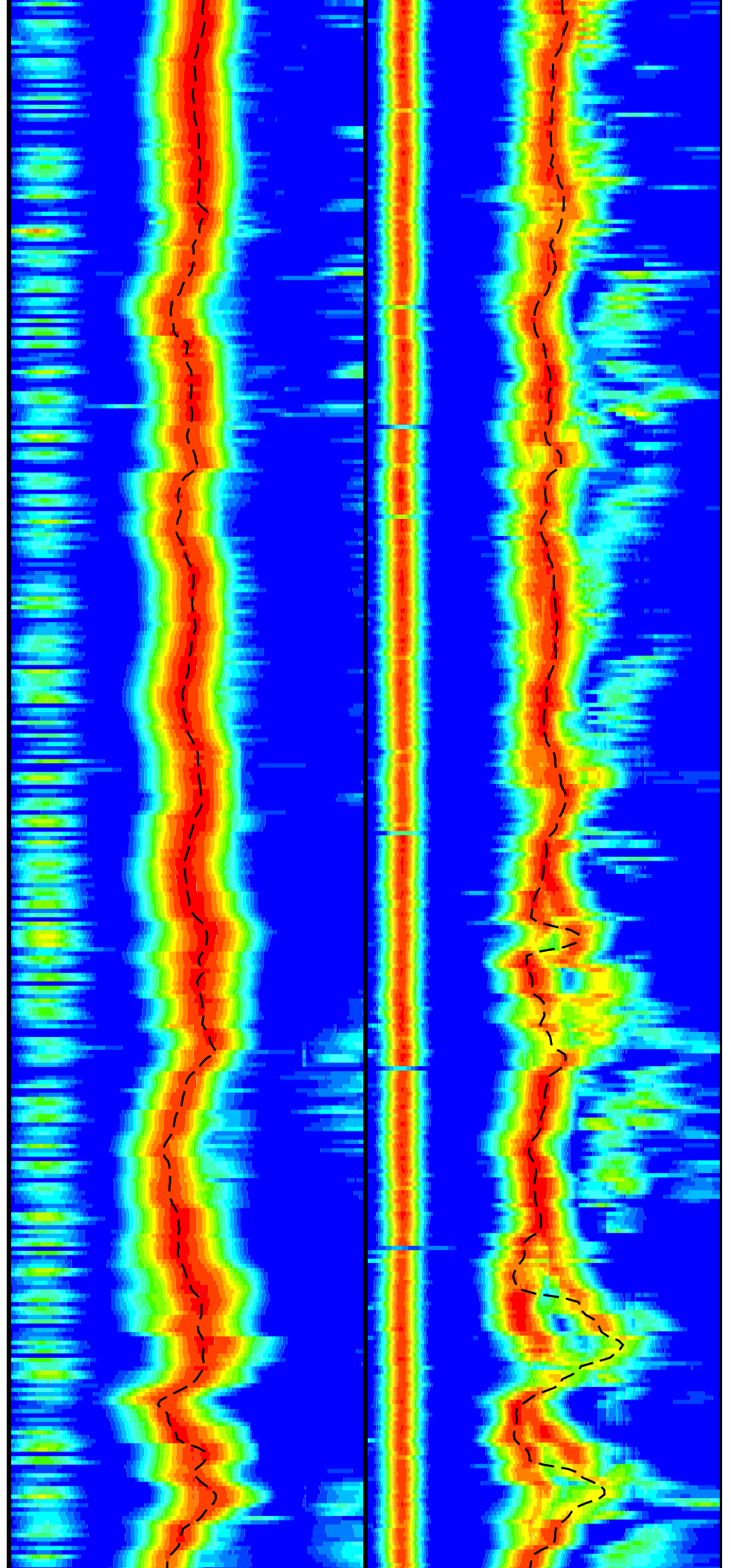
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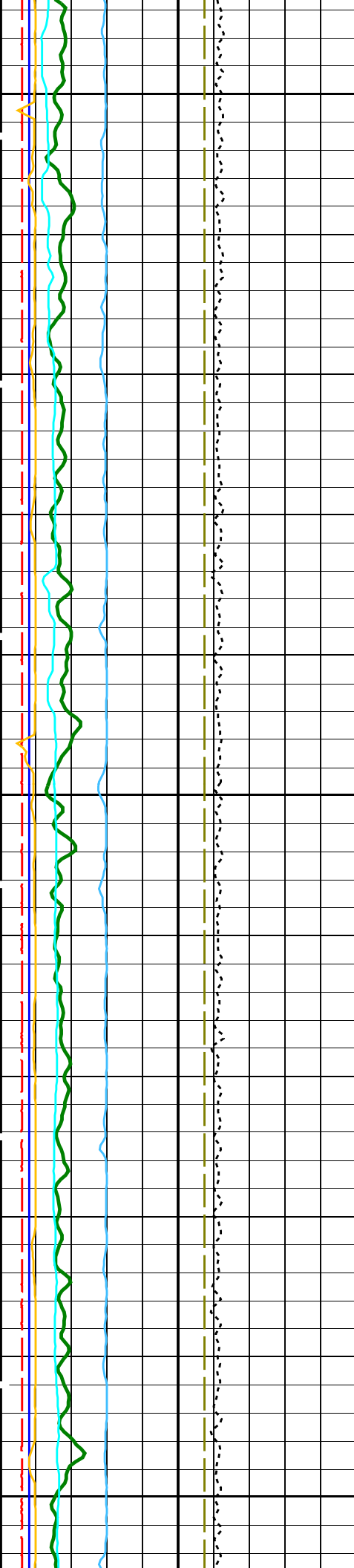




2500

2525

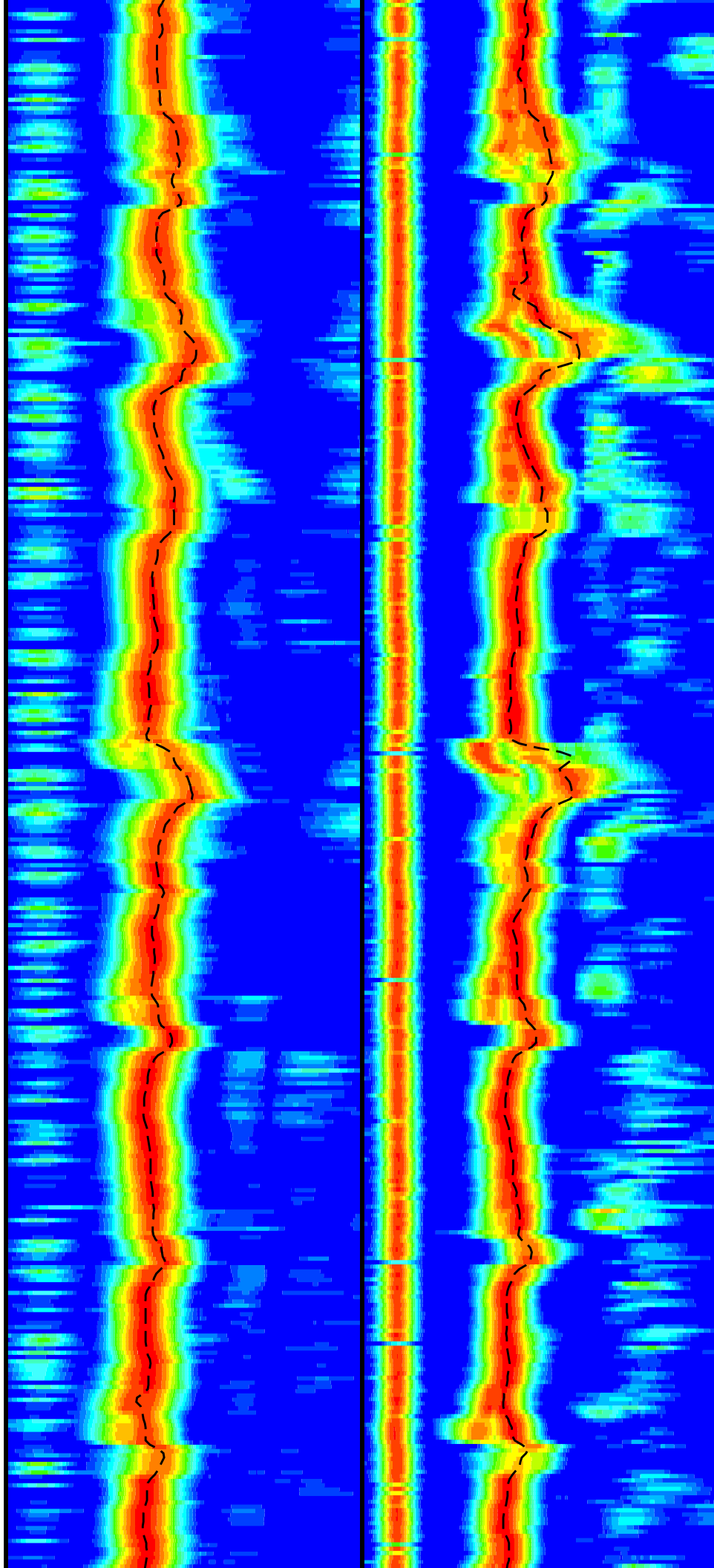


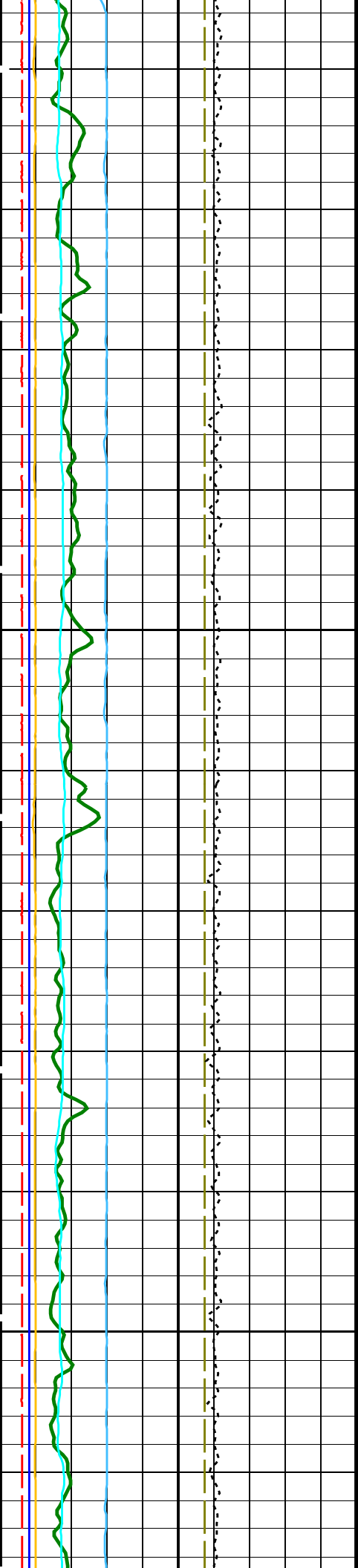


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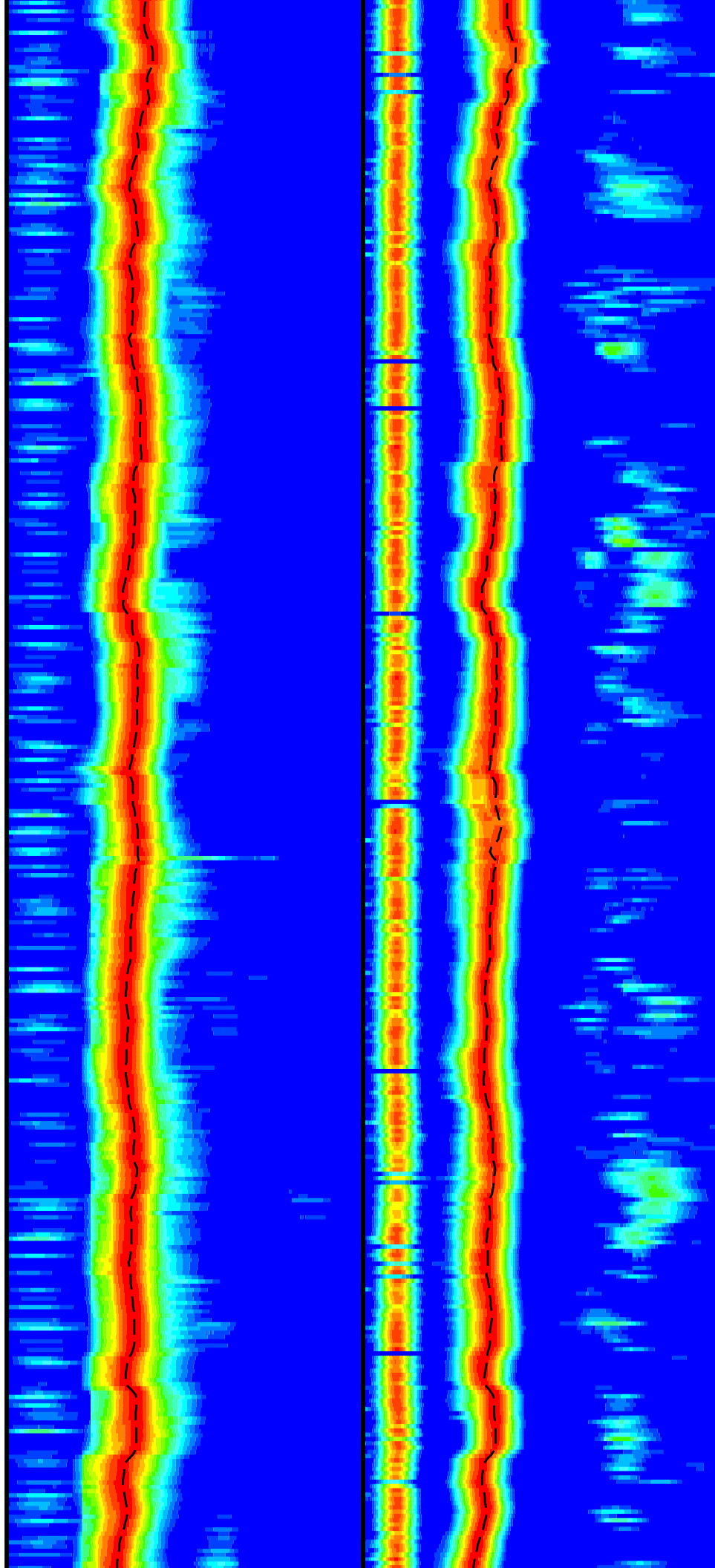
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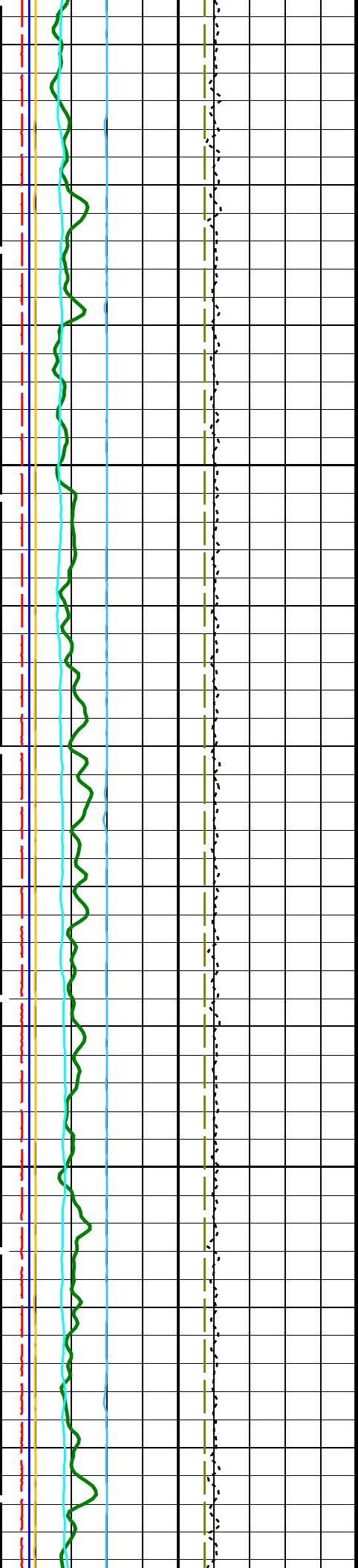




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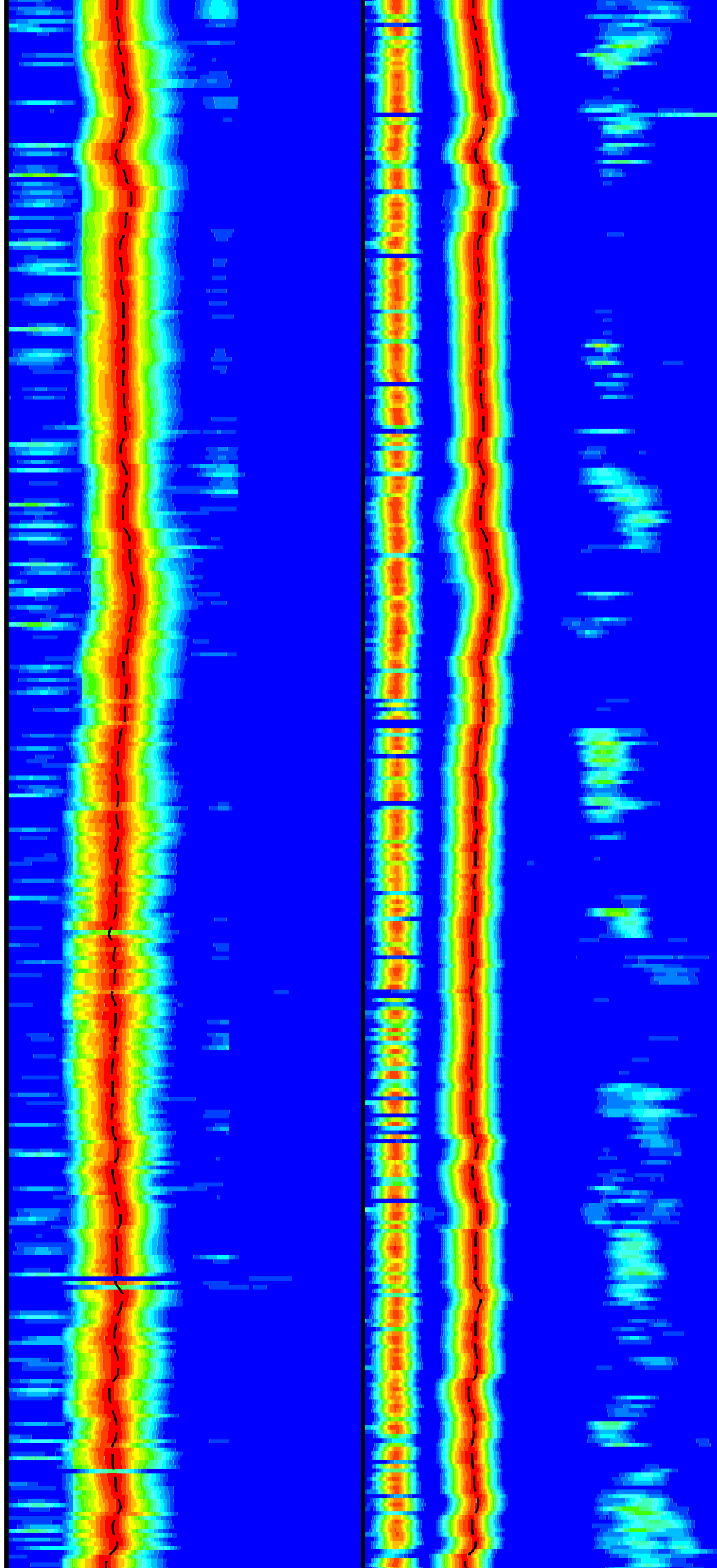
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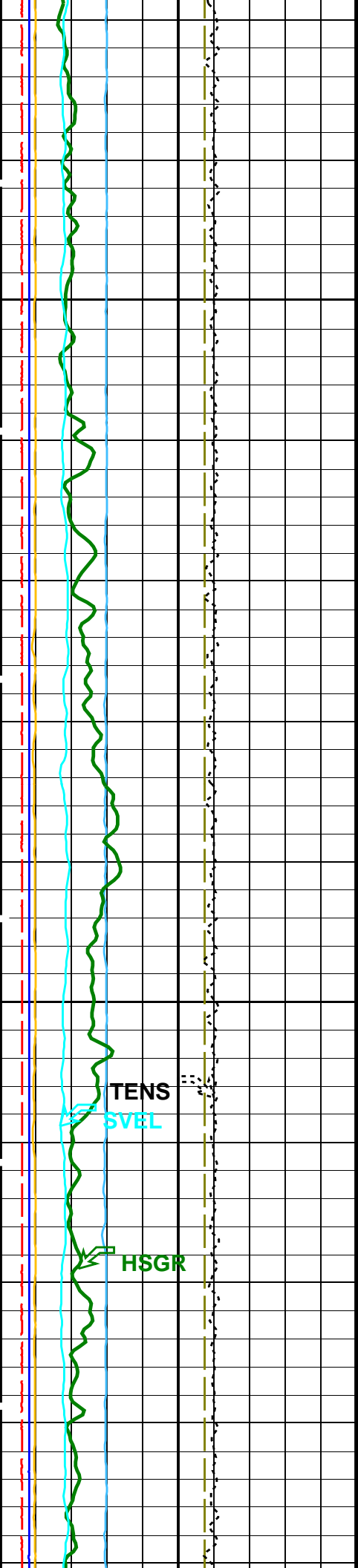




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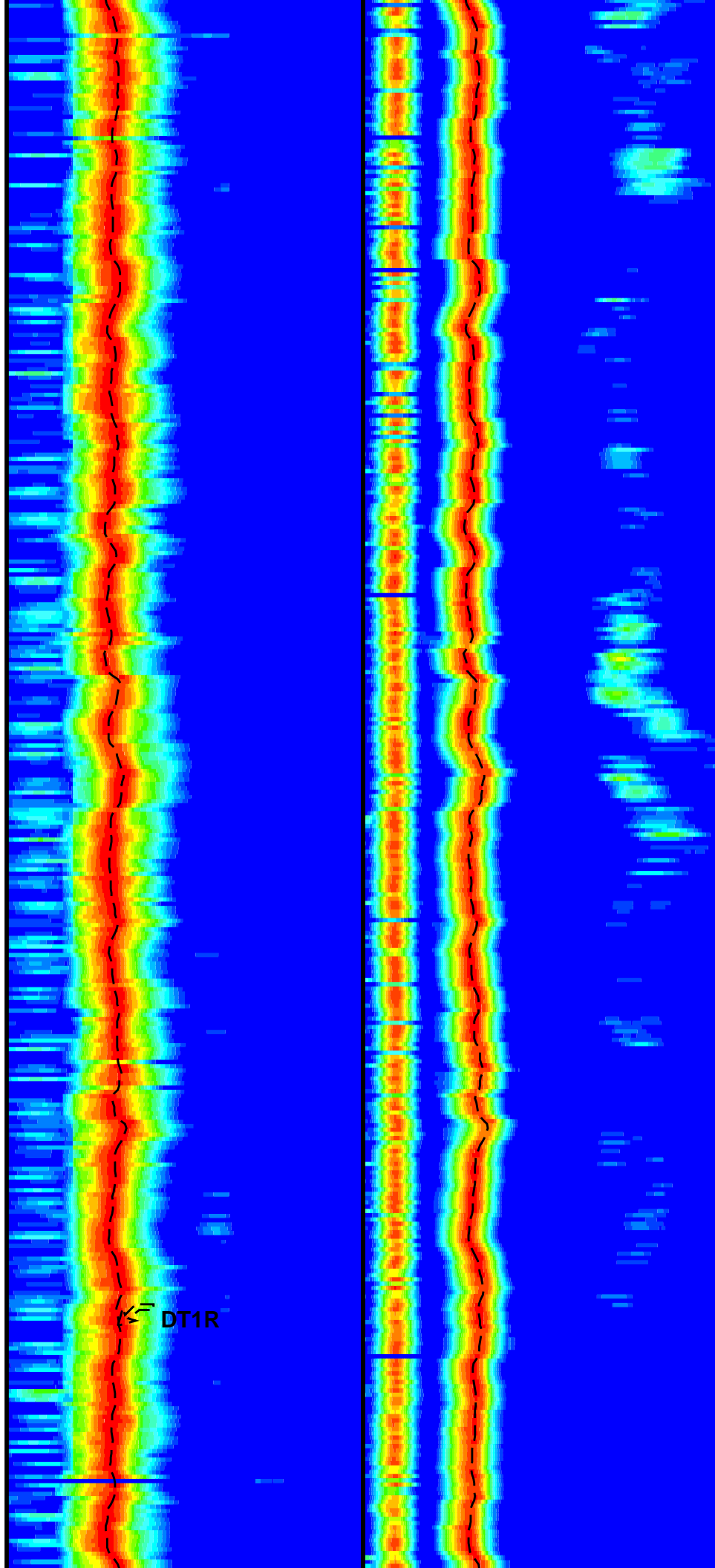
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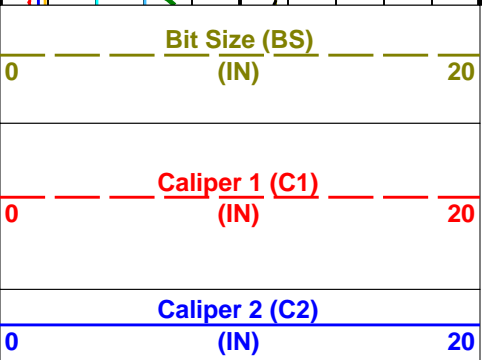
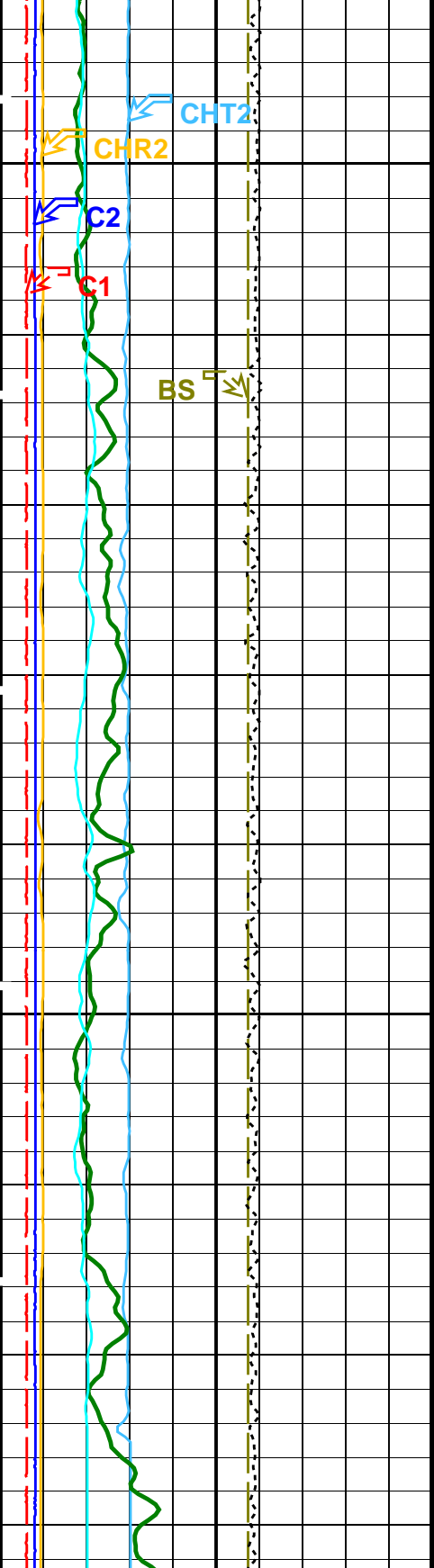




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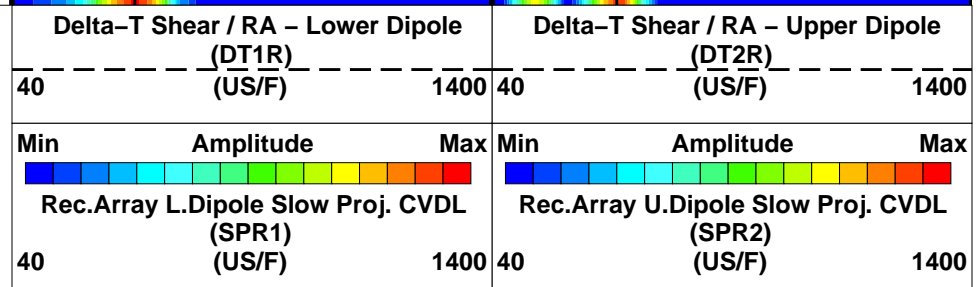
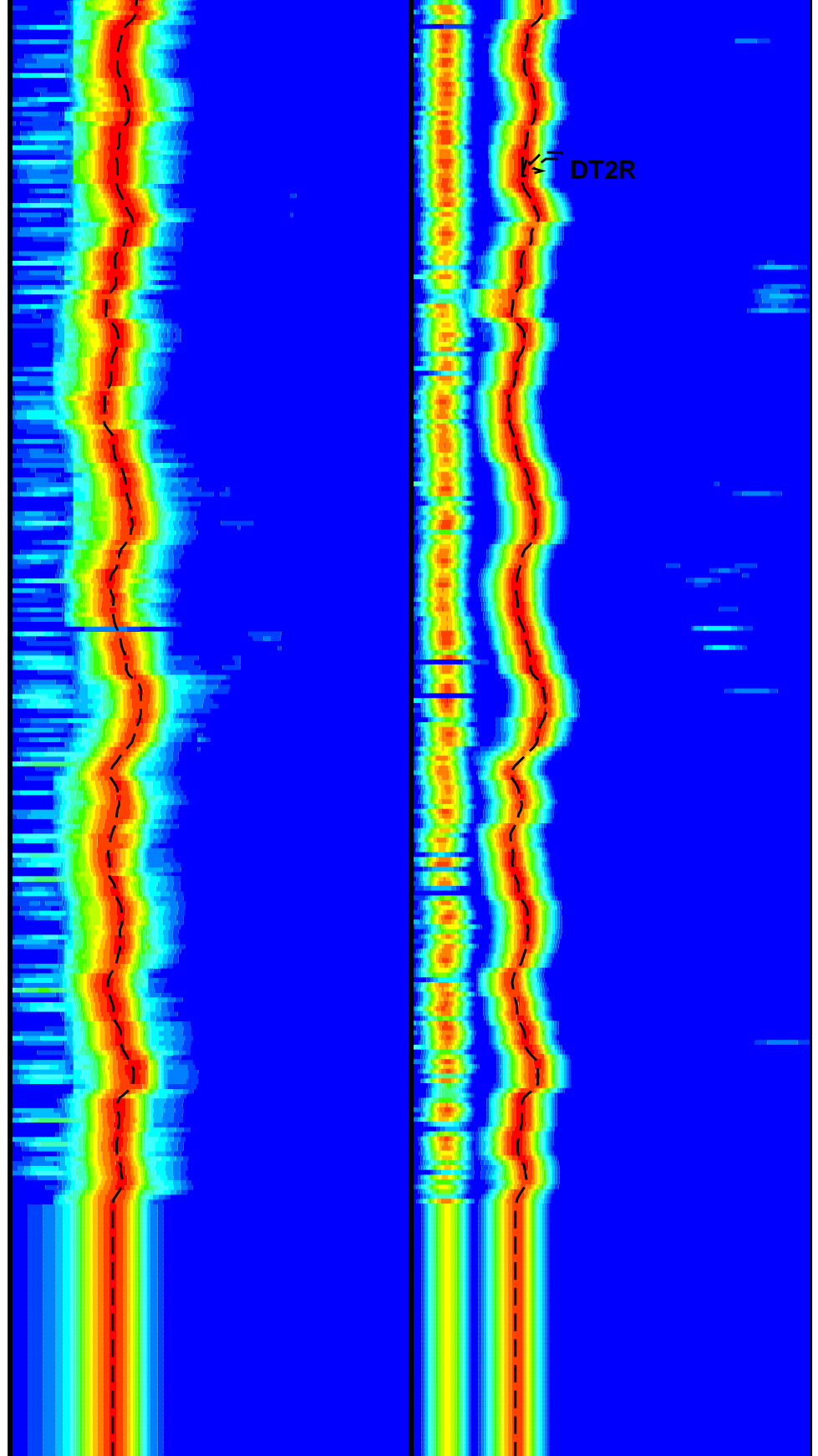
2750





2775

2800



Sonic Velocity (SVEL)		
1000	(M/S)	6000
Tension (TENS)		
10000	(LBF)	0
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(-----)	10
Peak Coherence / TA – Upper Dipole (CHT2)		
-2	(-----)	8
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
DDE1	Digitizing Delay 1	0	US
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1400	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
GCSE	Generalized Caliper Selection	BS	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN	
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SFM2	STC Filter – Upper Dipole	B1–2K	
SLL1	STC Slowness Lower Limit – Lower Dipole	40	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	40	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL1	STC Slowness Upper Limit – Lower Dipole	1400	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1400	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US

TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TST2	STC Time Step – Upper Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	20440	US
TUL2	STC Time Upper Limit – Upper Dipole	20440	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
HNGBS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGBS Detector 1 Barite Constant	1	
BAR2	HNGBS Detector 2 Barite Constant	1	
BHK	HNGBS 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	HNGBS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGBS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGBS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGBS Borehole Potassium Running Average	–0.0105171	
HALF	HNGBS Alpha Filter Length	60	IN
HCRB	HNGBS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGBS Processing Enable	YES	
S1BI	HNGBS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGBS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGBS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGBS Detector 1 Variable Barite Factor Running Average	0.996636	
VBA2	HNGBS Detector 2 Variable Barite Factor Running Average	1.01682	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: UpperLowerDipole_40_1040 Vertical Scale: 1:200 Graphics File Created: 05–Aug–2021 14:38

OP System Version: 19C0–187

MEST–B	19C0–187	DTA–A	19C0–187
DSST–B	19C0–187	HNGC–B	19C0–187
HNGBS–BA	19C0–187	DTC–H	19C0–187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_027PUP	FN:42	PRODUCER	04–Aug–2021 15:58	2816.7 M	2169.4 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_038PUP	FN:56	PRODUCER	05–Aug–2021 14:38		
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Company: International Ocean Discovery Program

Well: Expedition 395C, Site U1564C

Input DLIS Files

DEFAULT	FMS_DSI_NGS_027PUP	FN:42	PRODUCER	04–Aug–2021 15:58	2816.7 M	2169.4 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_038PUP	FN:56	PRODUCER	05–Aug–2021 14:38	2816.4 M	2169.4 M
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OP System Version: 19C0–187

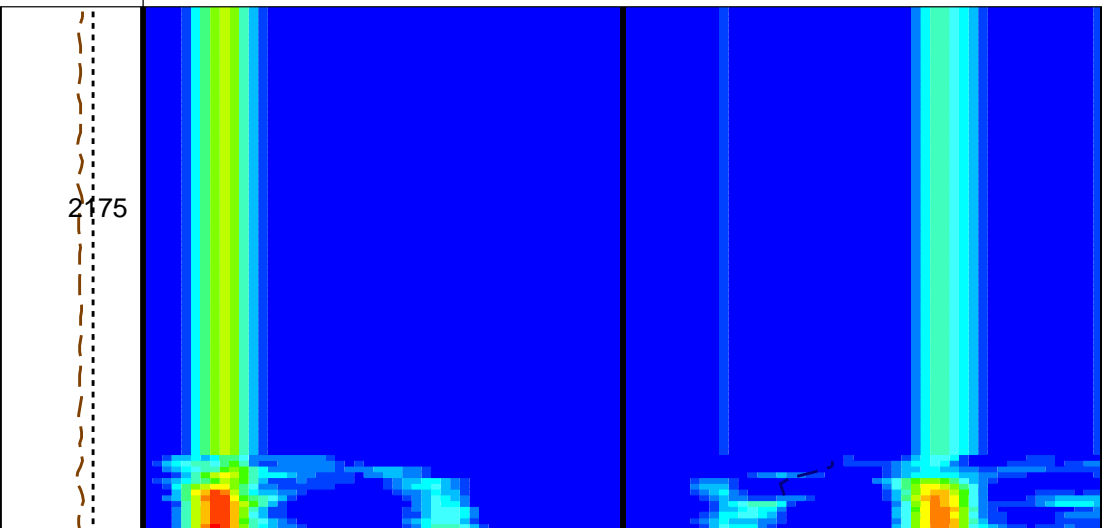
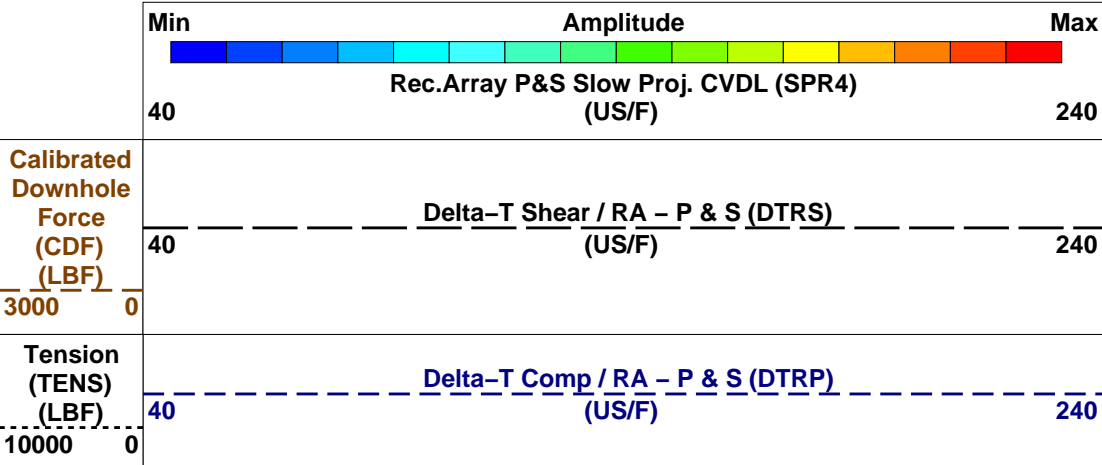
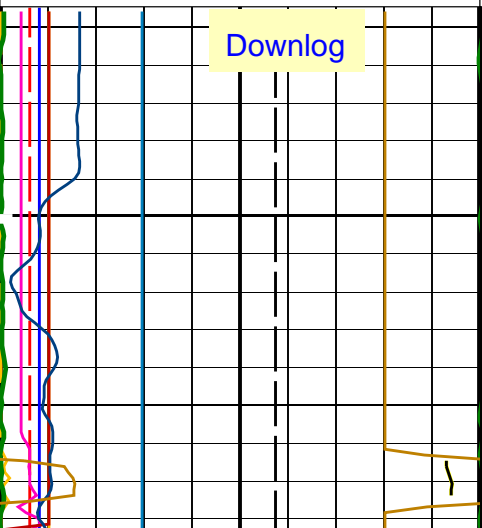
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DSST–B	19C0–187	HNGC–B	19C0–187
HNGBS–BA	19C0–187	DTC–H	19C0–187

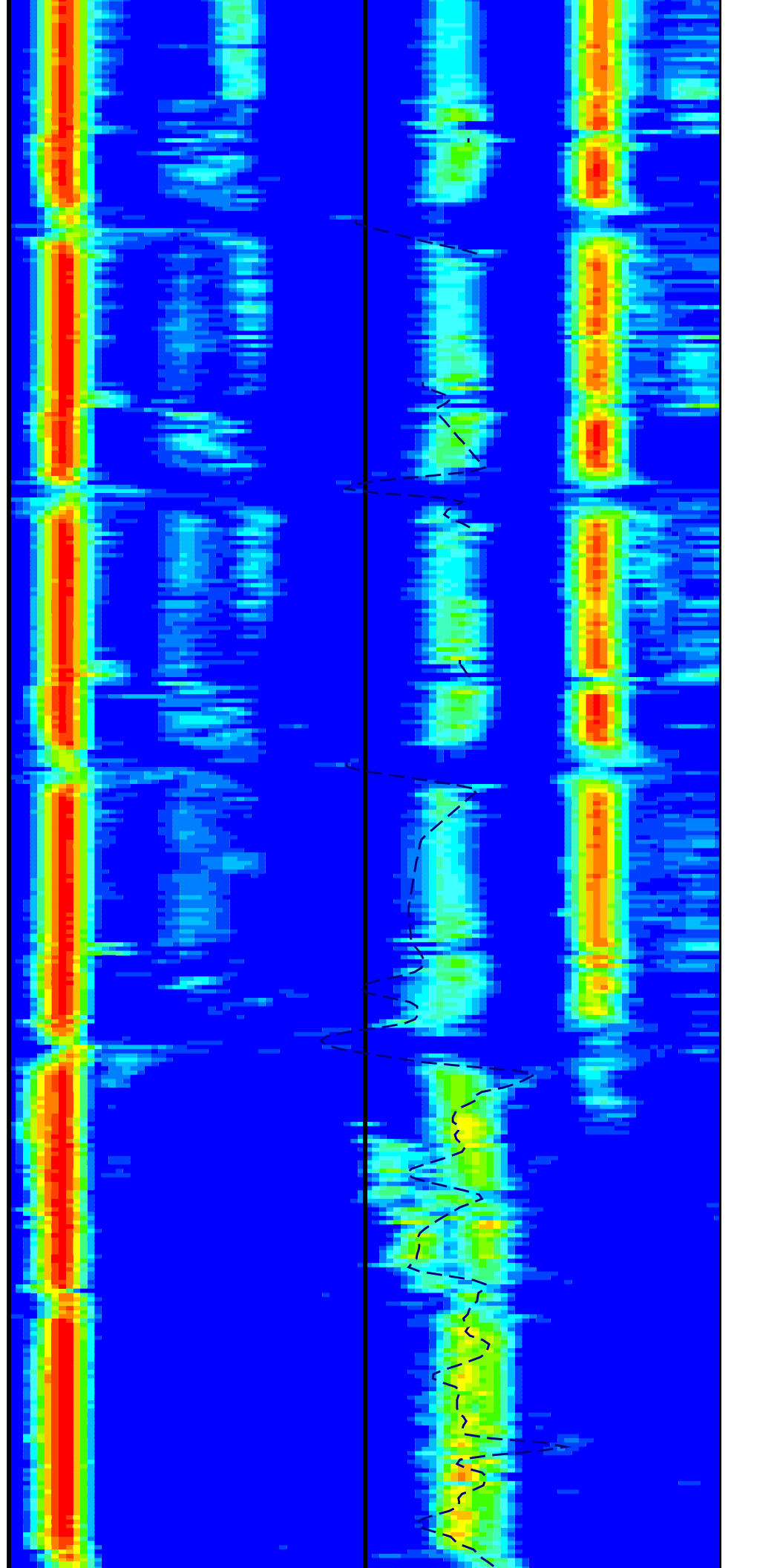
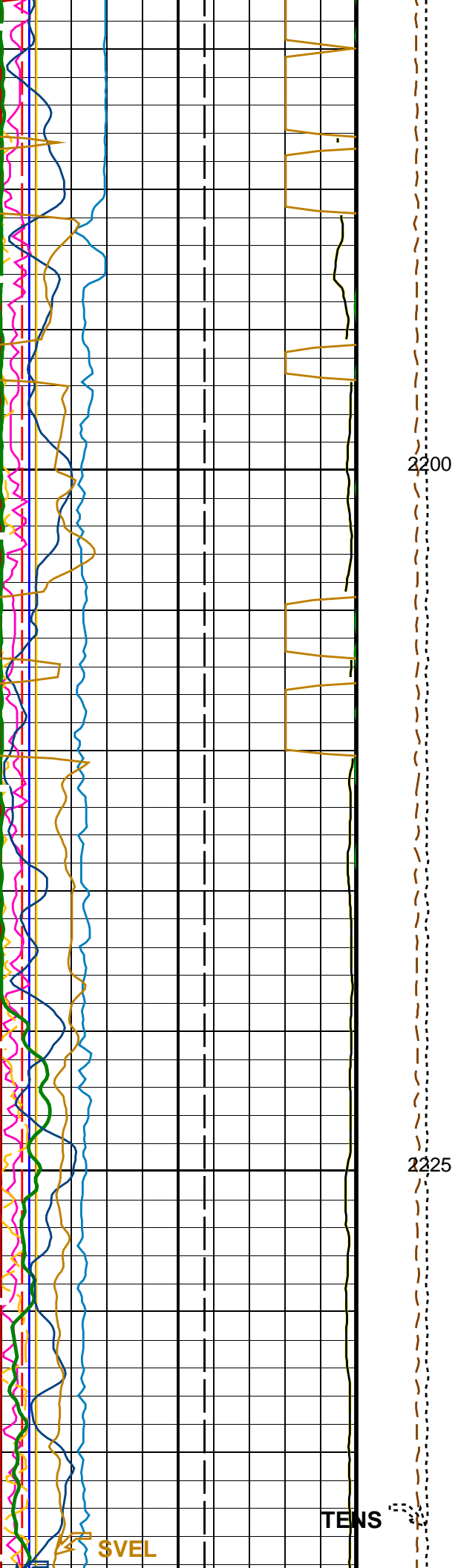
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0	(GAPI)	100
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
–1	(----)	9
Peak Coherence / RA – P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / TA – Upper Dipole (CHT2)		
–2	(----)	8
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(----)	10
Poisson's Ratio (PR)		
0	(----)	0.5
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Sonde Deviation (SDEVM)		
0	(DEG)	10
Poisson's Ratio (PR)		
0	(----)	0.5

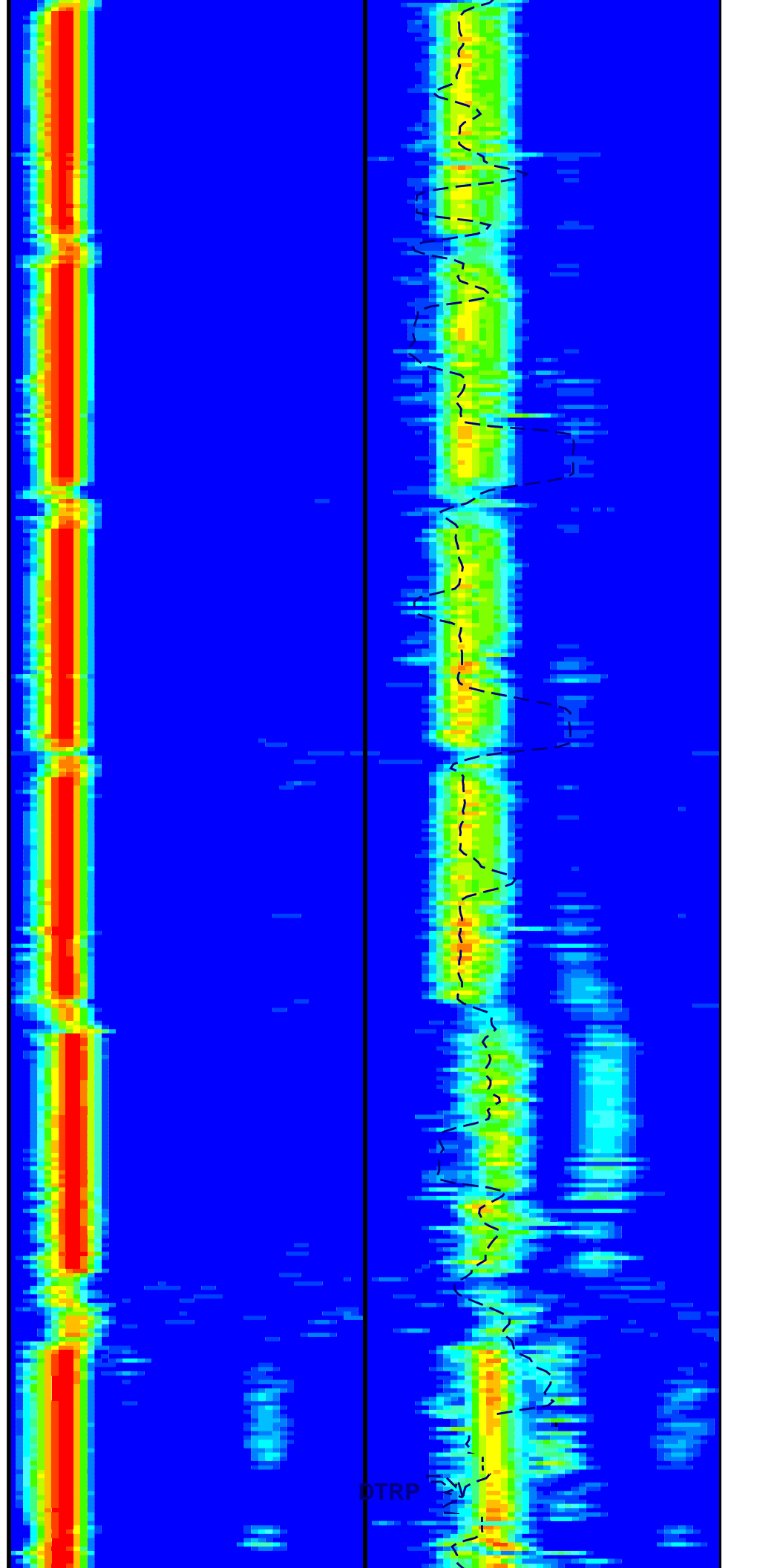
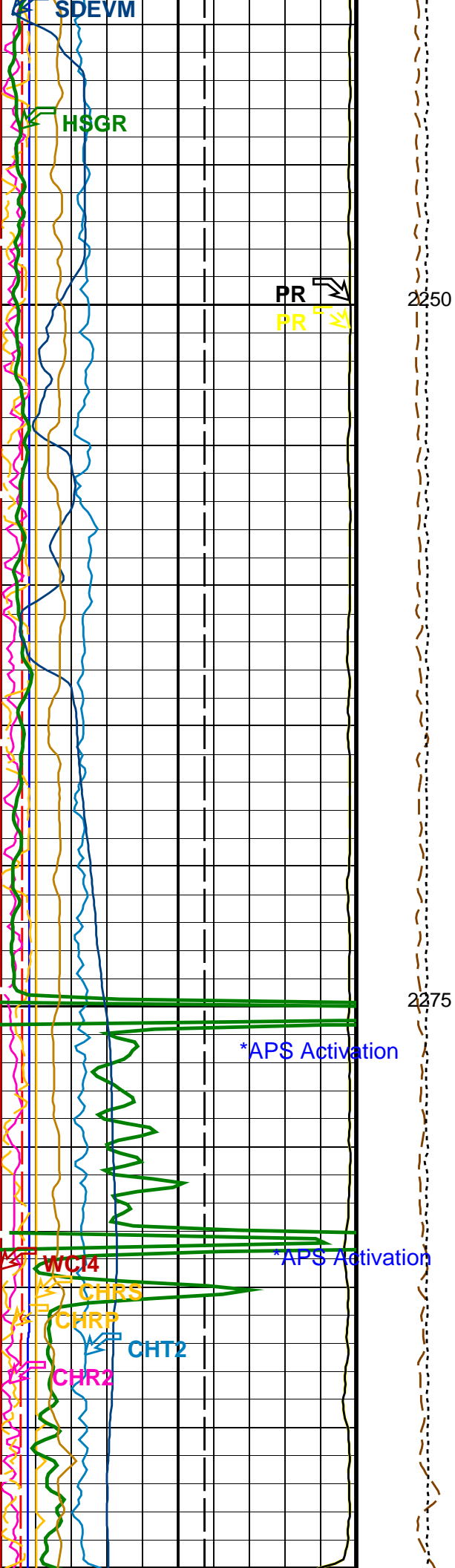
0	Caliper 1 (C1) (IN)	20
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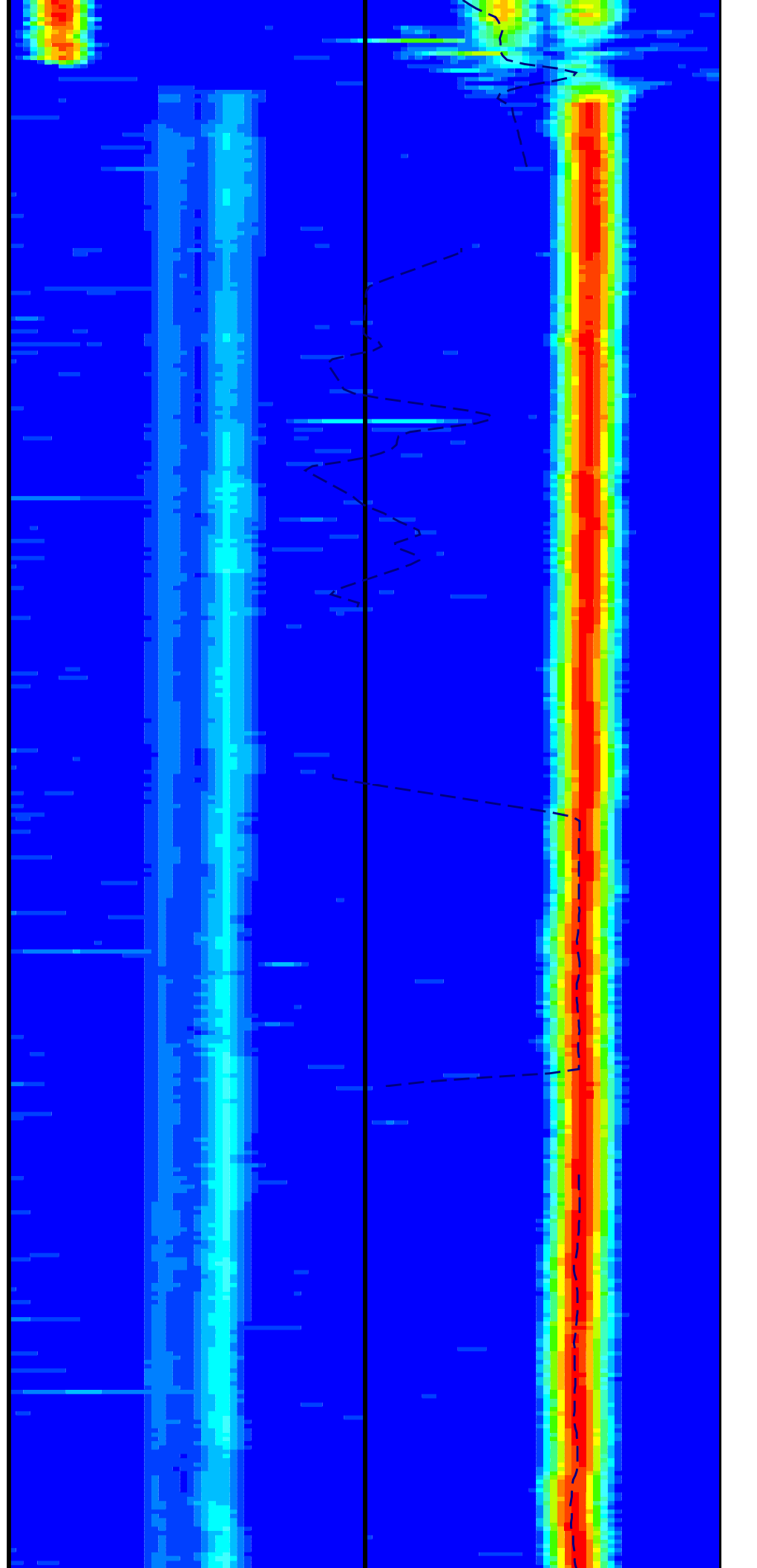
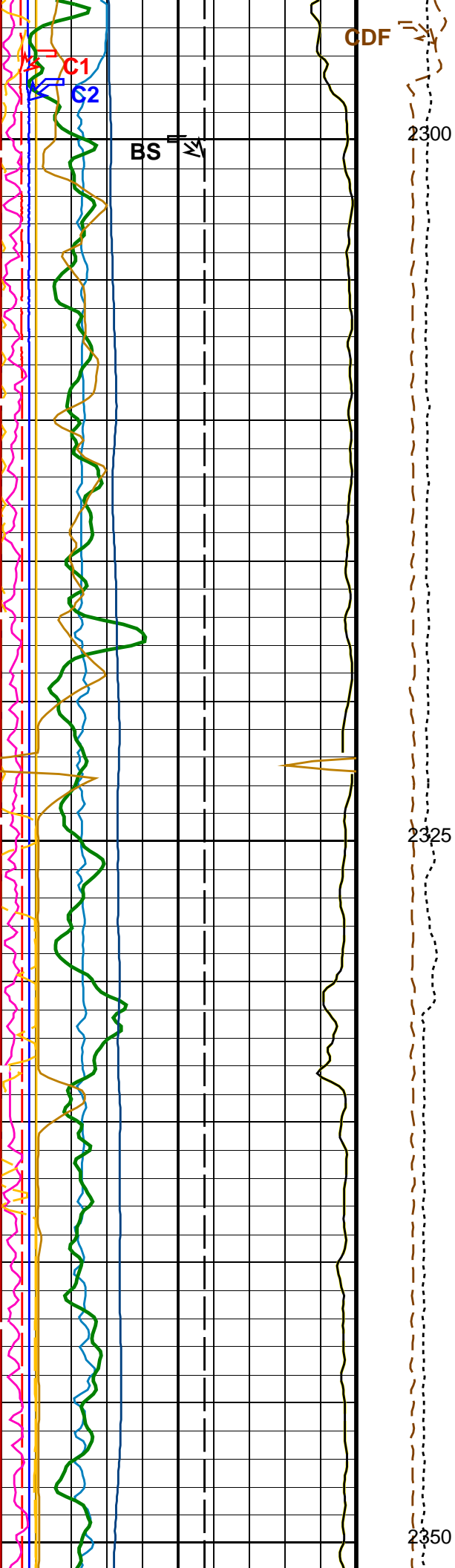
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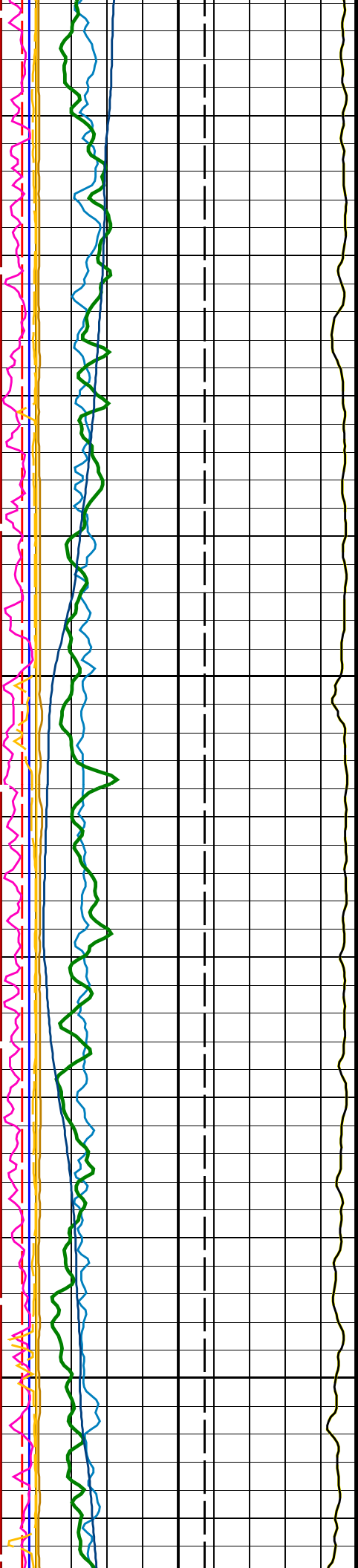
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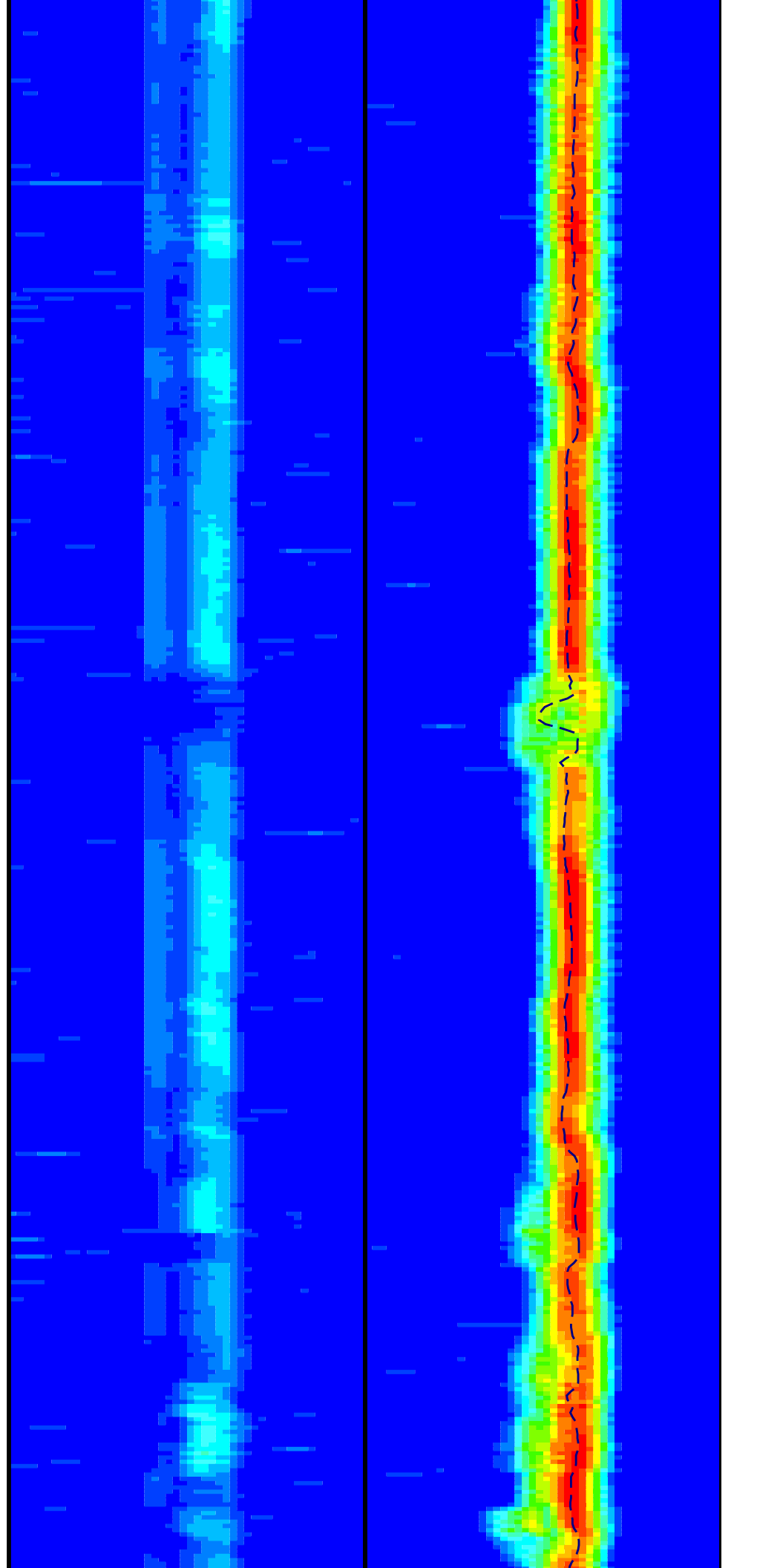


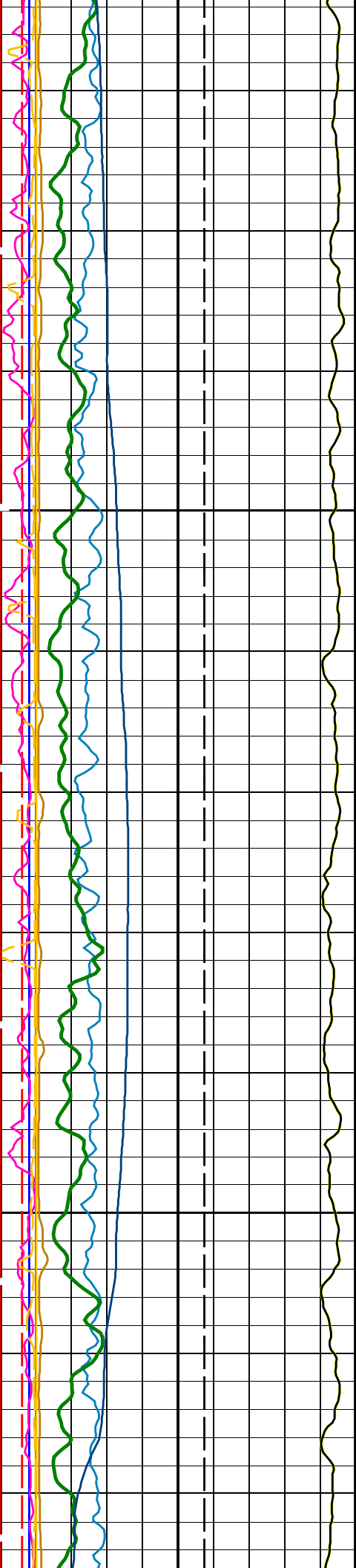




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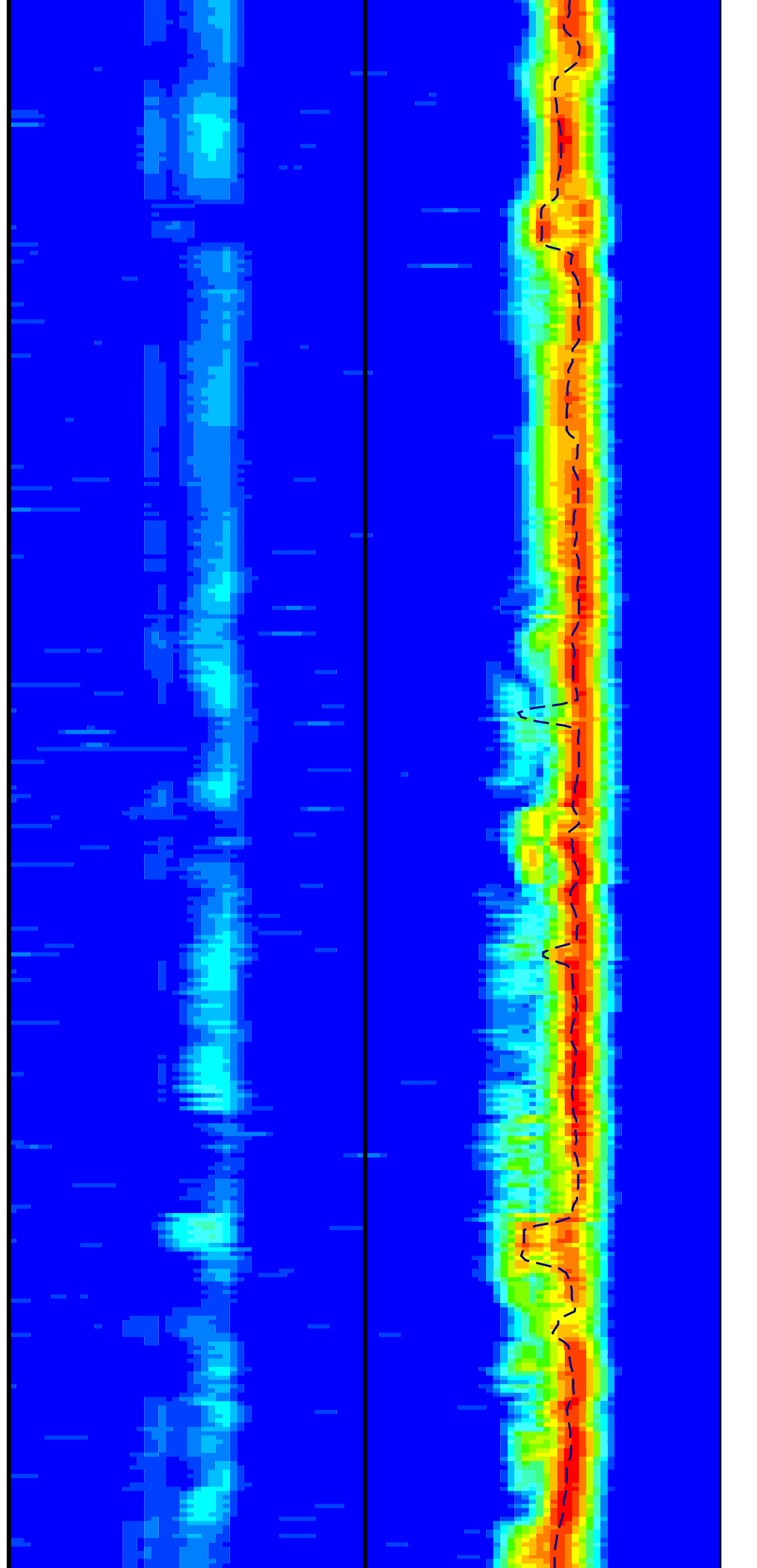
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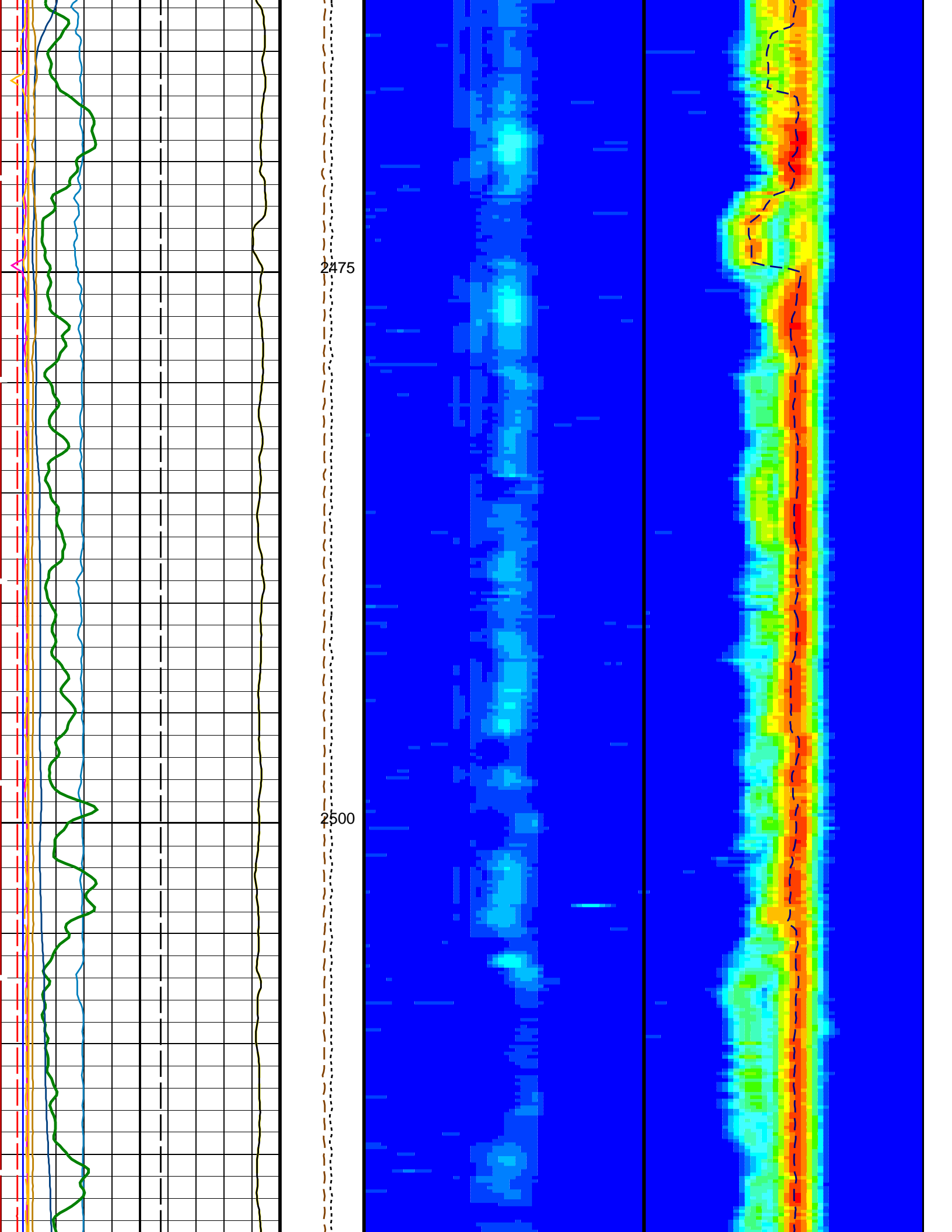


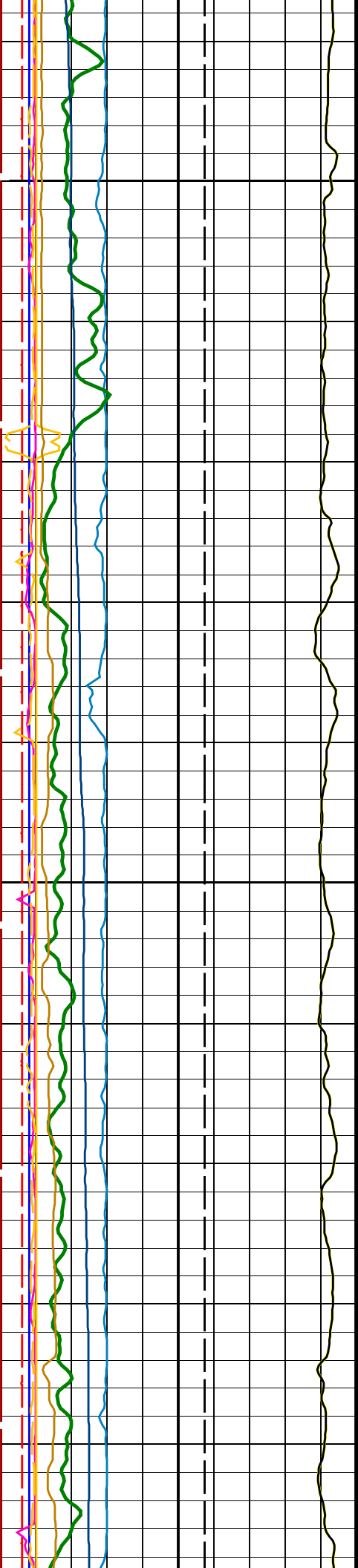


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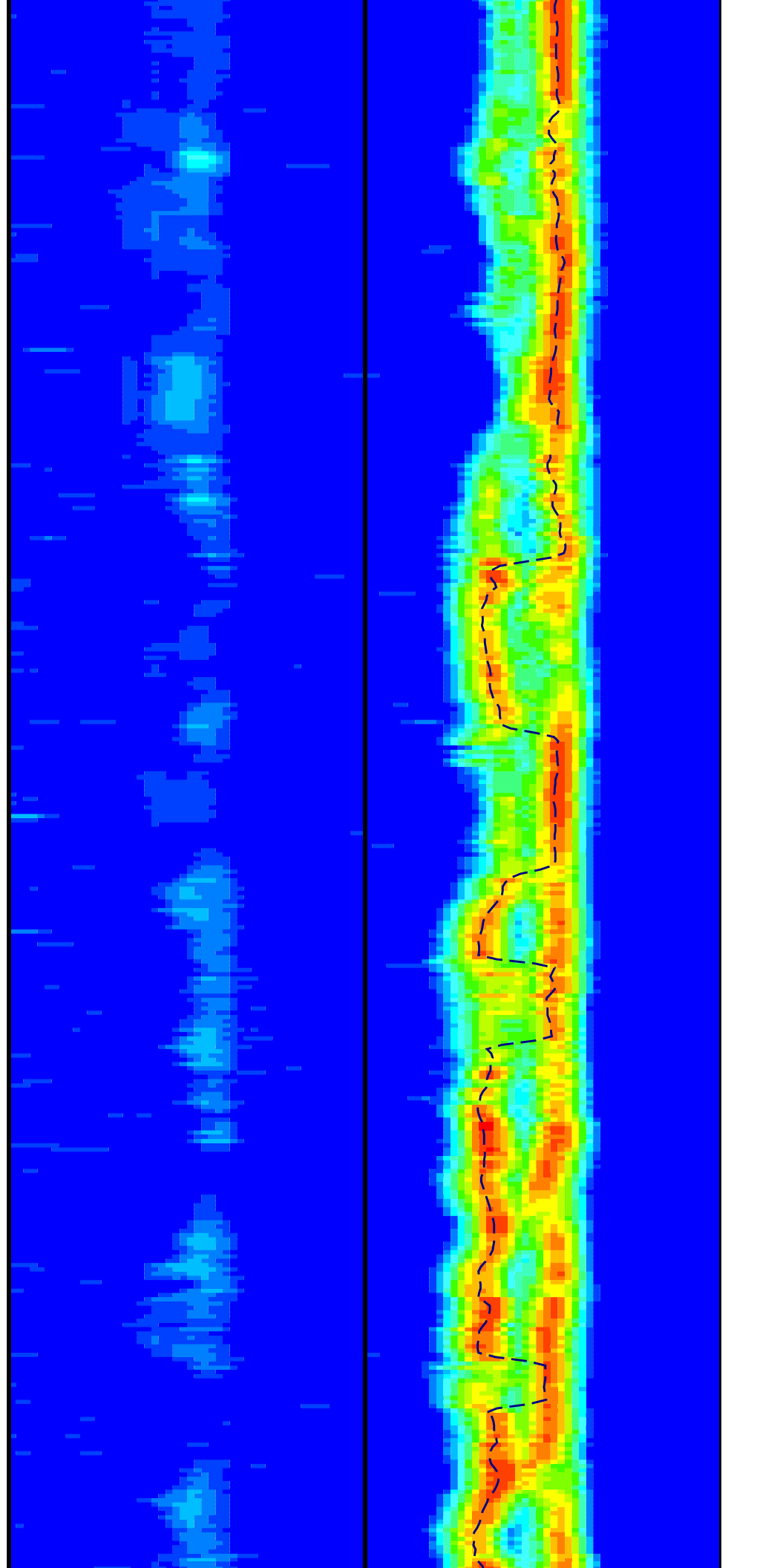


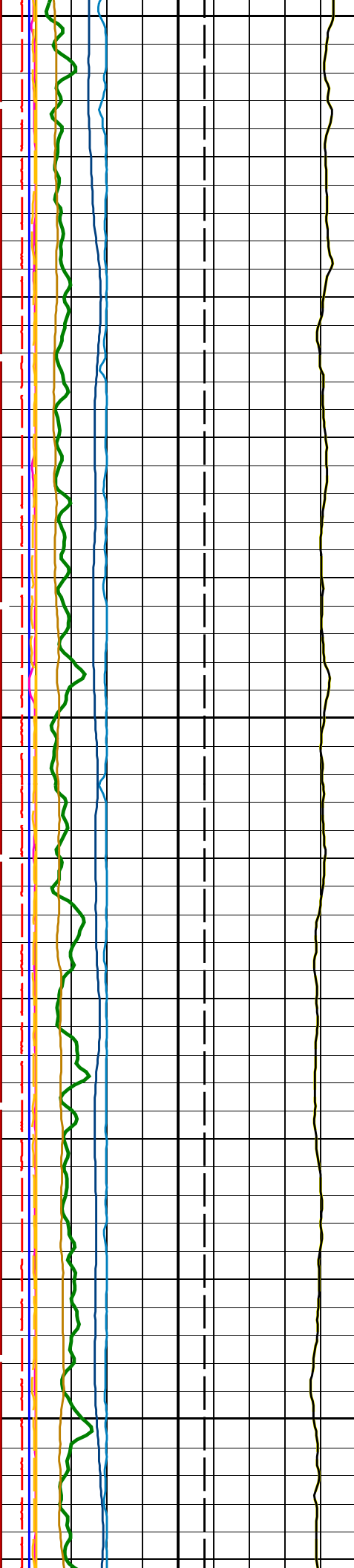




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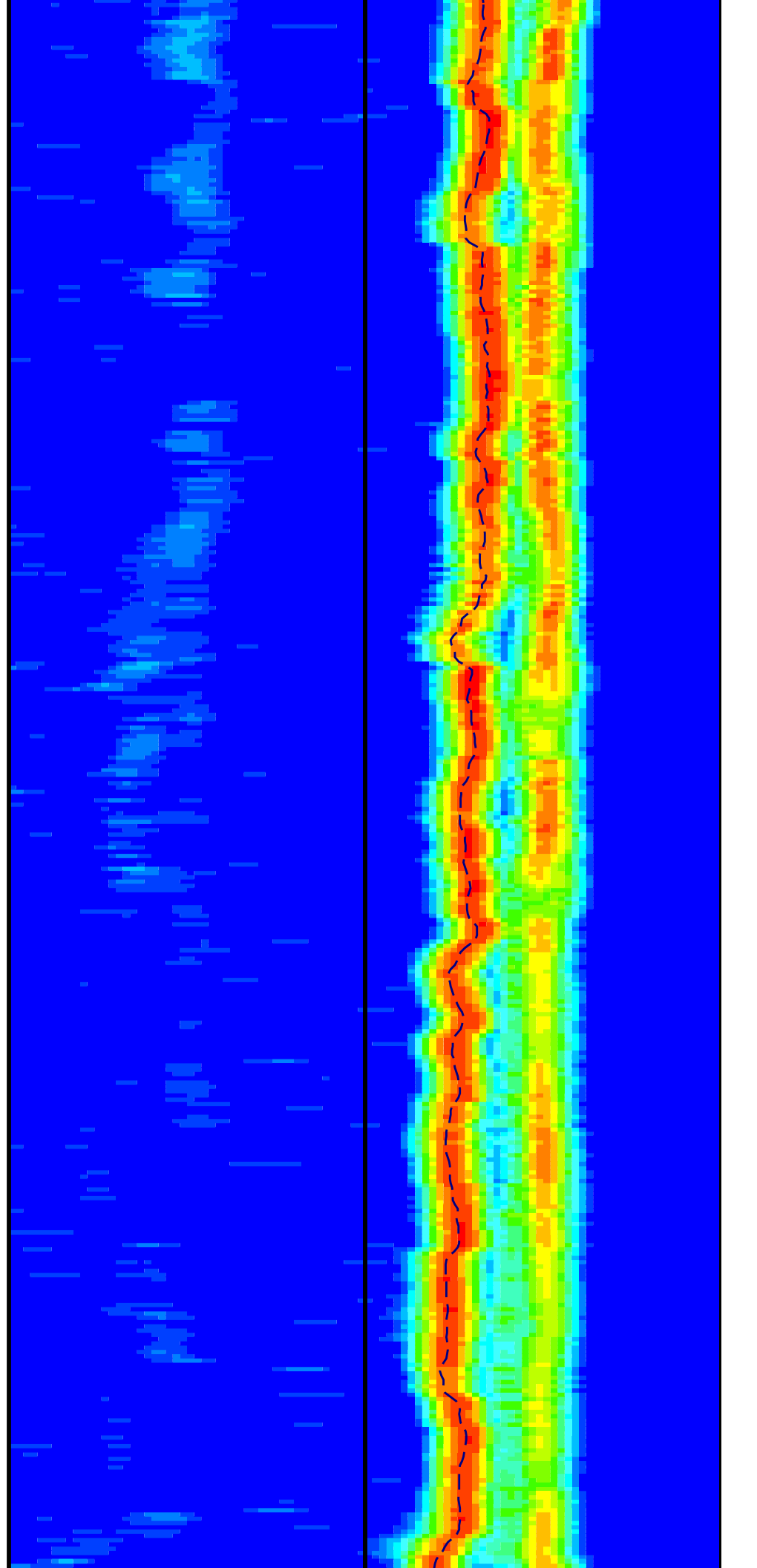


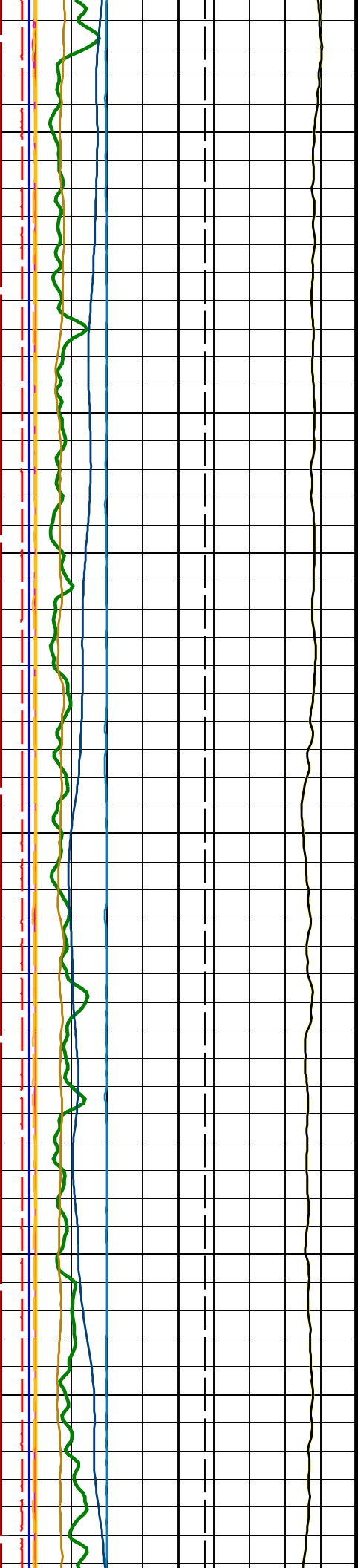


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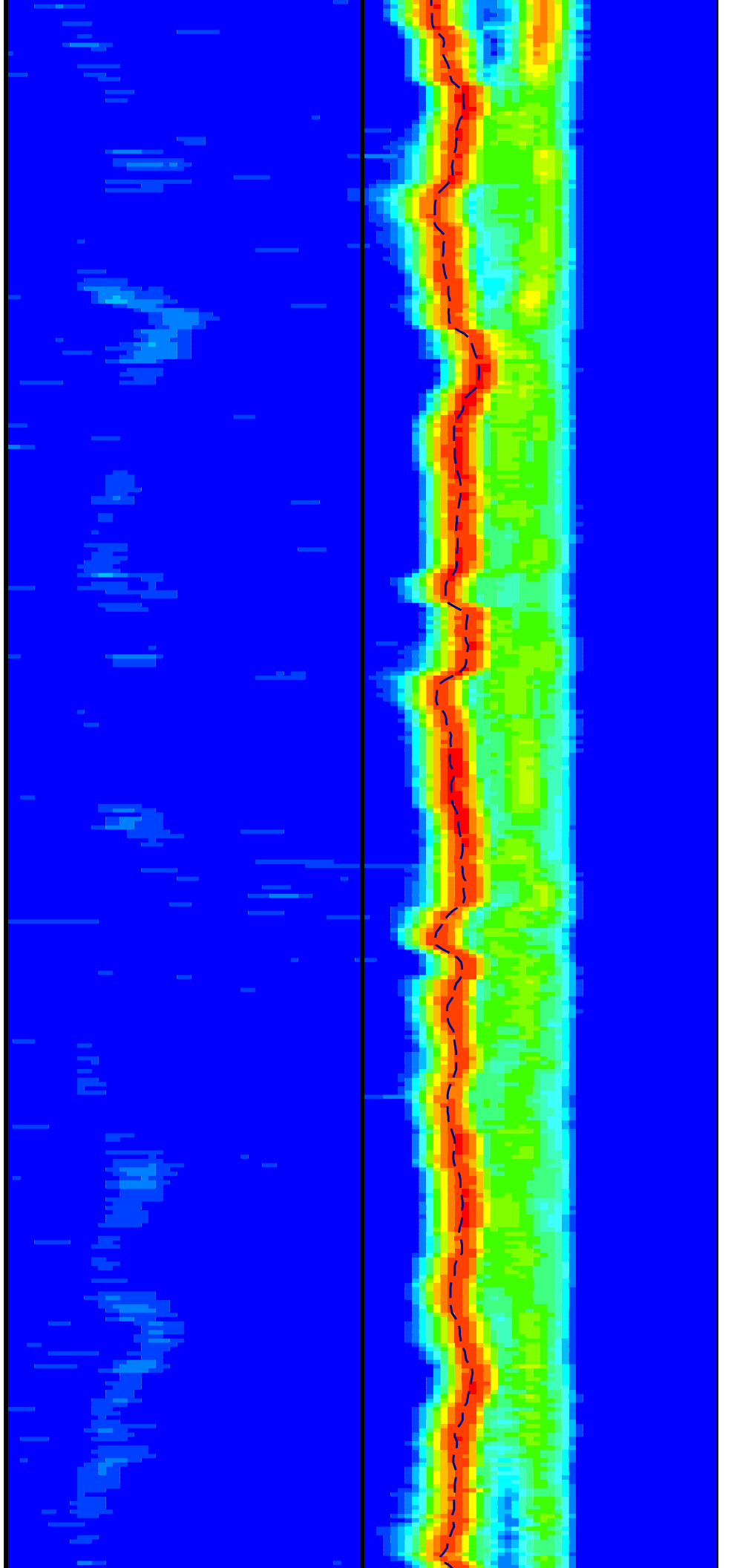
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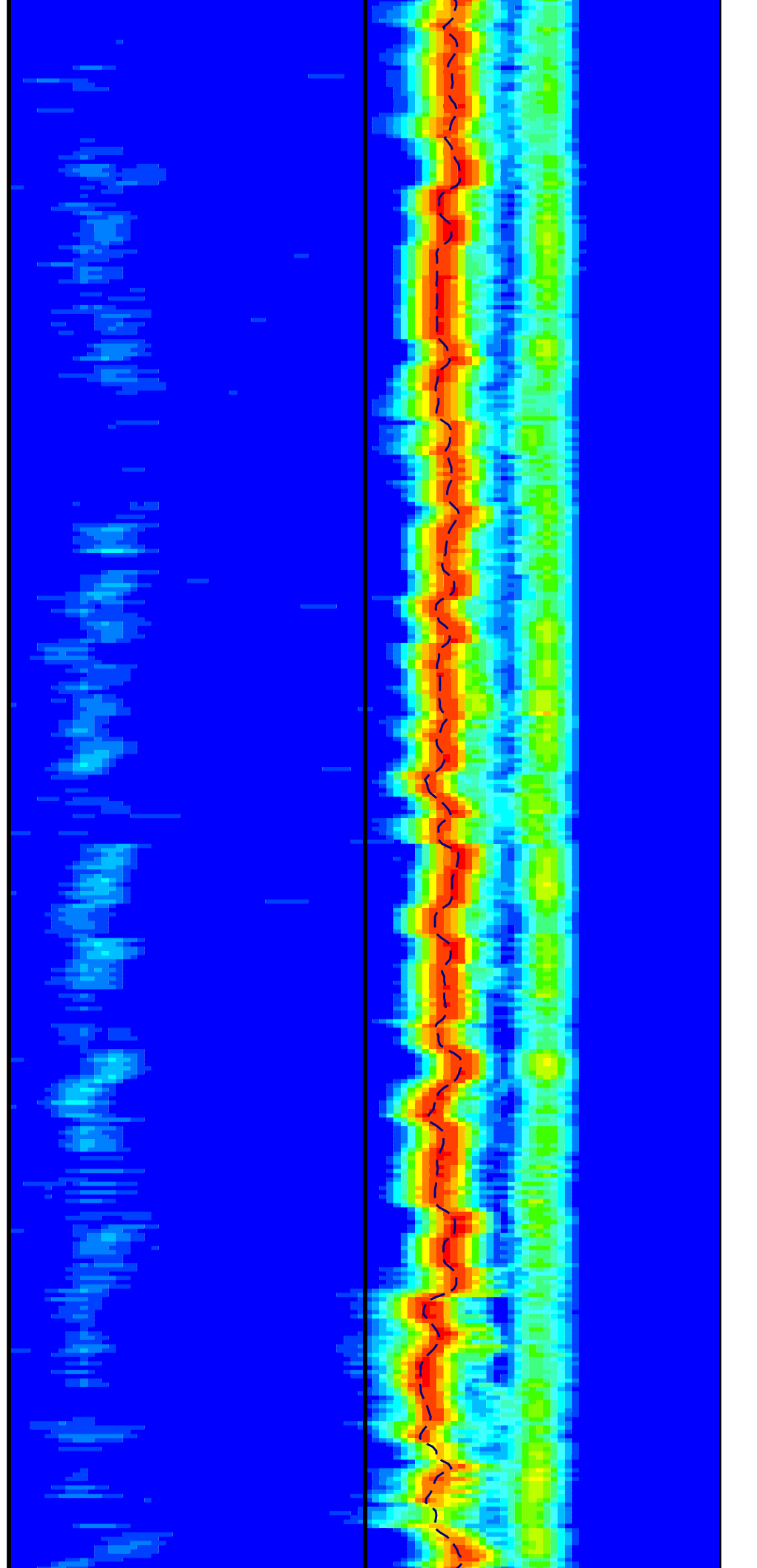
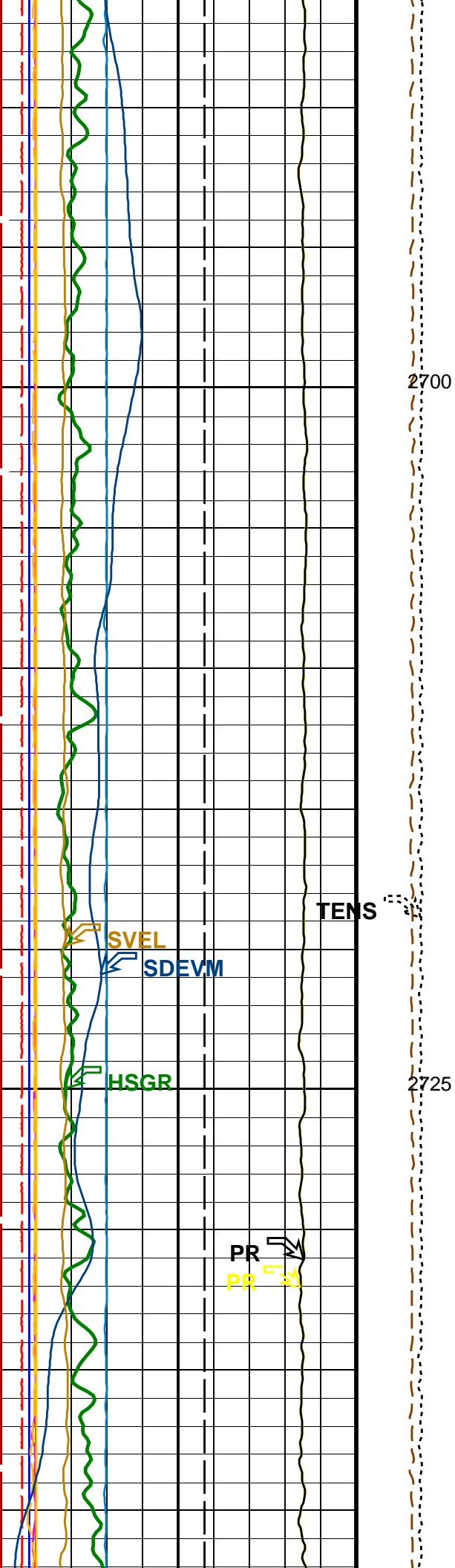


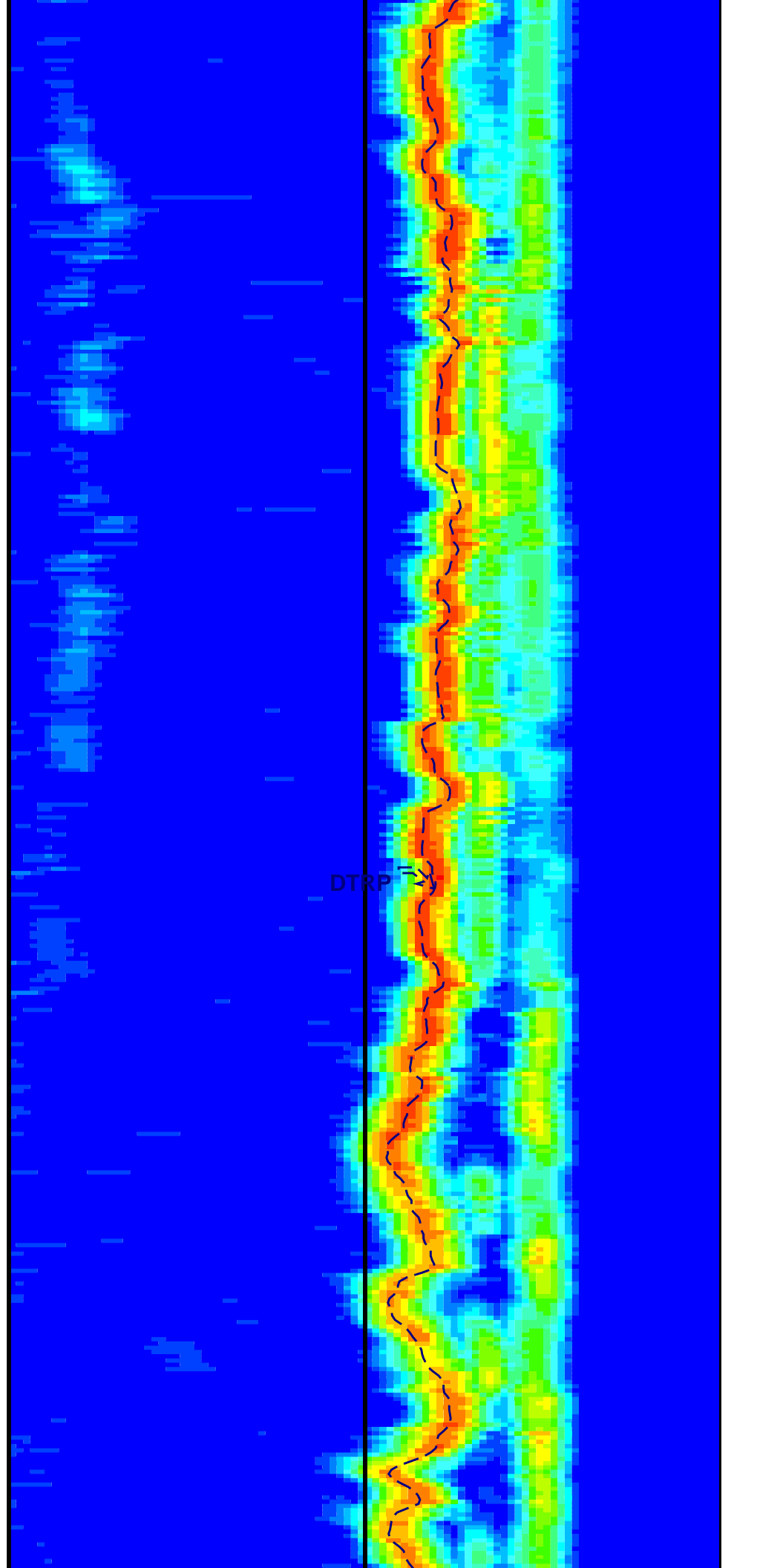
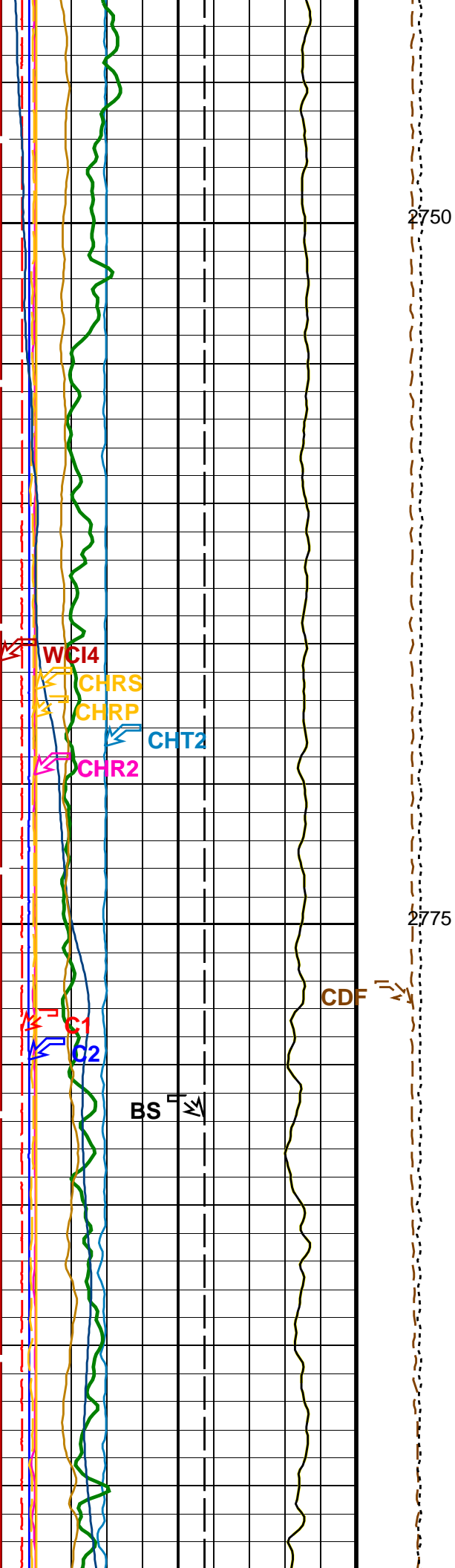


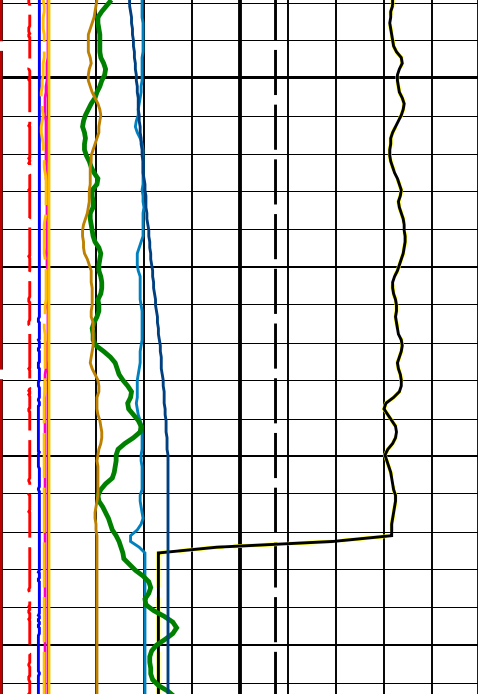
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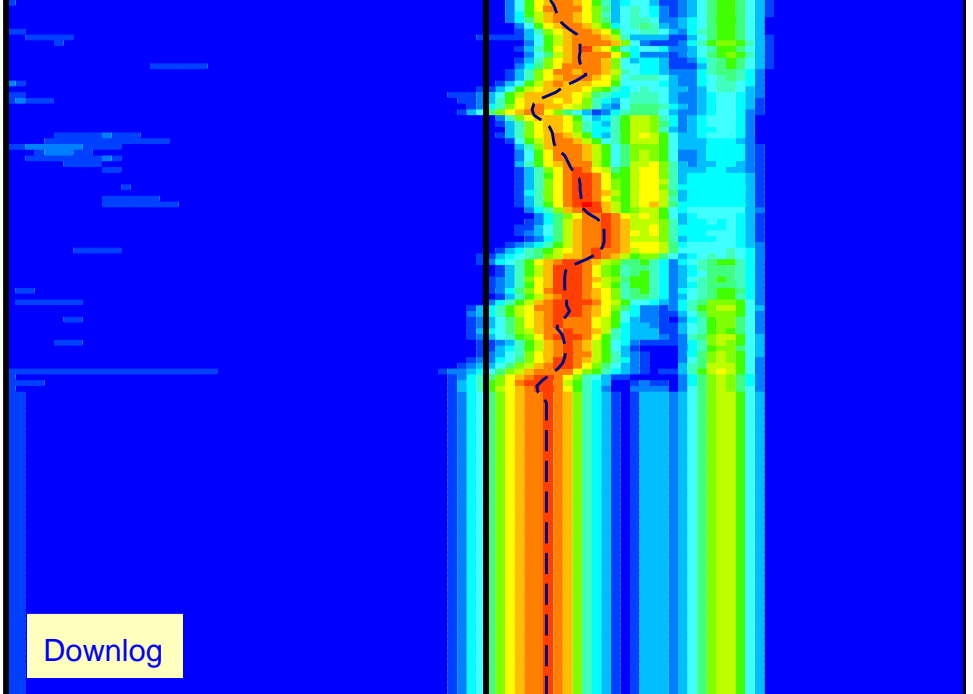








2800



Bit Size (BS)
(IN) 0 20

Caliper 2 (C2)
(IN) 0 20

Caliper 1 (C1)
(IN) 0 20

Poisson's Ratio (PR)
(----) 0 0.5

Sonde Deviation (SDEVM)
(DEG) 0 10

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

Poisson's Ratio (PR)
(----) 0 0.5

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

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

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

Tension
(TENS)
(LBF) 10000 0

Calibrated
Downhole
Force
(CDF)
(LBF) 3000 0

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

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

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

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	-11.3947	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	120	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	200	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source - Dipole Shear	USE	
DSHL	Label Slowness Lower Limit - Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1400	US/F
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	212	US/F
DTSS	Shear Delta-T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character - Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio - Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio - Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
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	190	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	195	US/F
SLI4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW2	STC Source Waveform - Upper Dipole	WF_SAM2	
SSW4	STC Source Waveform - Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit - Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	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
TWI2	STC Integration Time Window - Upper Dipole	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
HNCS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNCS Detector 1 Barite Constant	1	

BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0105171	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.996636	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01682	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_Only Vertical Scale: 1:200 Graphics File Created: 05-Aug-2021 14:38

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	DTC-H	19C0-187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_027PUP	FN:42	PRODUCER	04-Aug-2021 15:58	2816.7 M	2169.4 M
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Output DLIS Files

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Input DLIS Files

DEFAULT	FMS_DSI_NGS_027PUP	FN:42	PRODUCER	04-Aug-2021 15:58	2816.7 M	2169.4 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_038PUP	FN:56	PRODUCER	05-Aug-2021 14:38	2816.4 M	2169.4 M
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OP System Version: 19C0-187

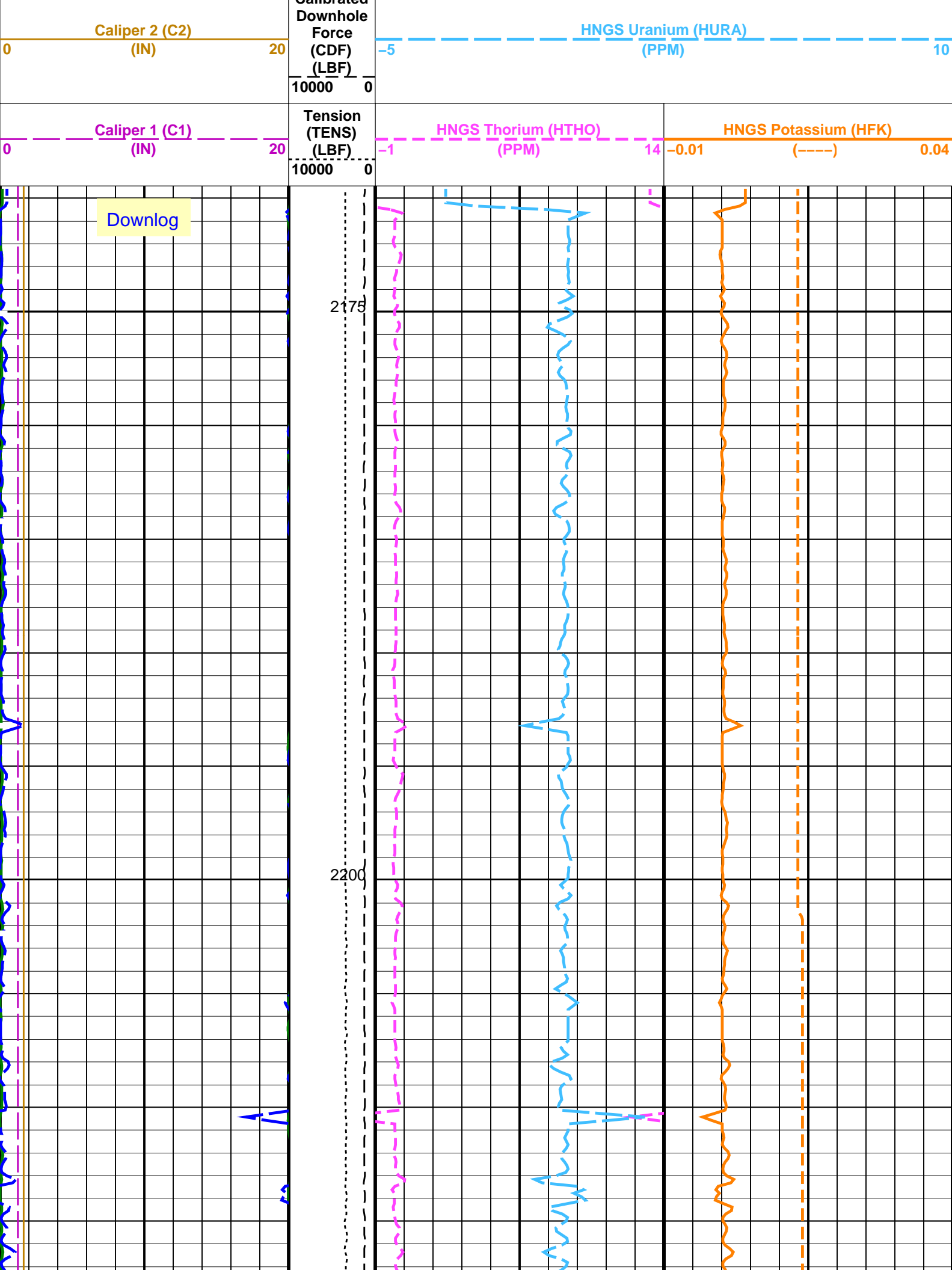
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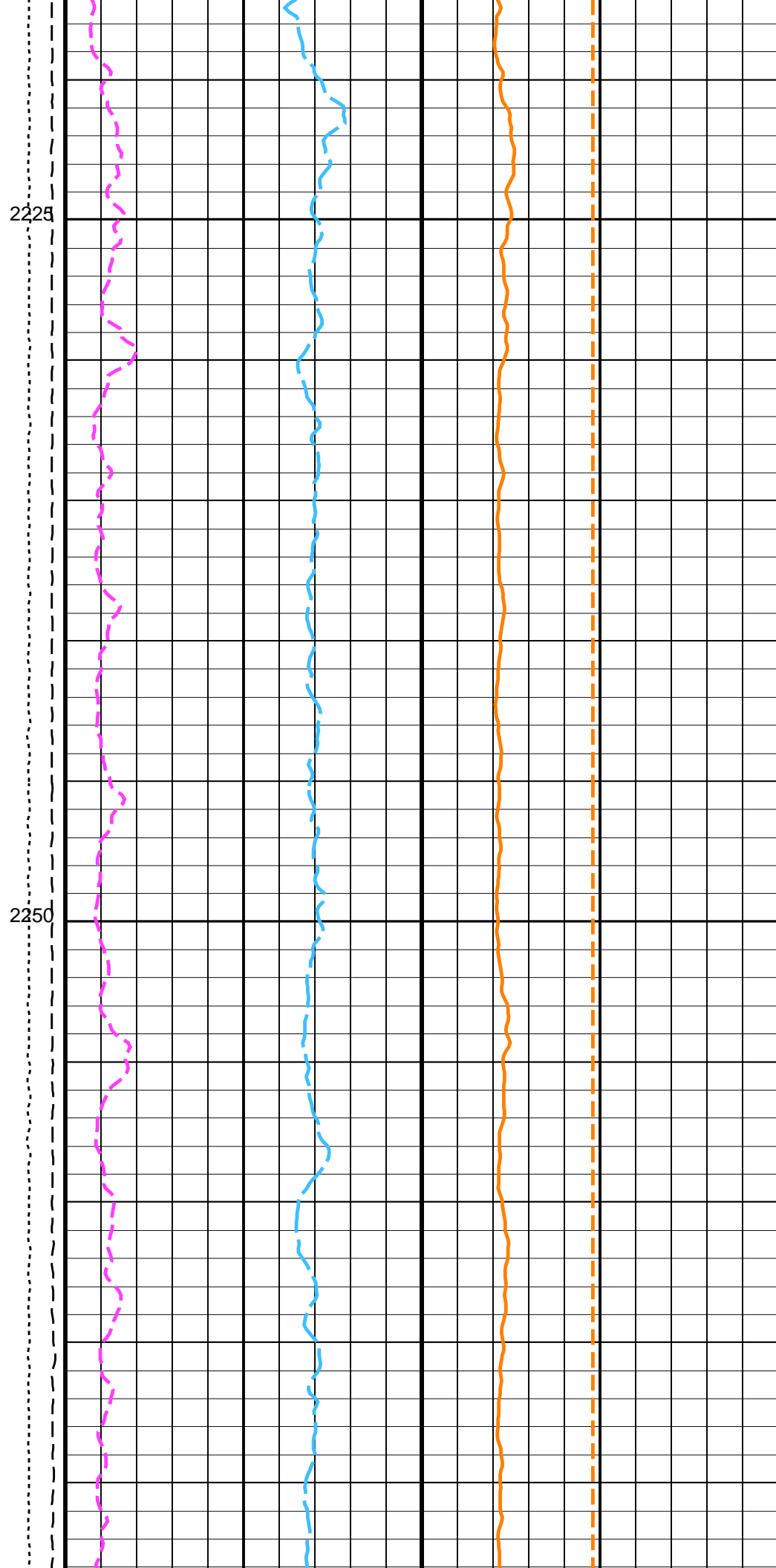
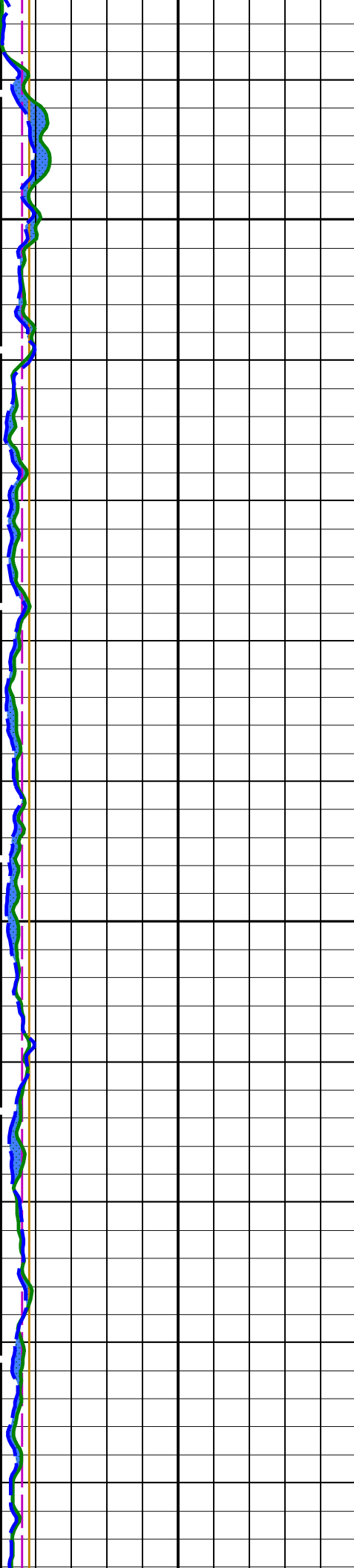
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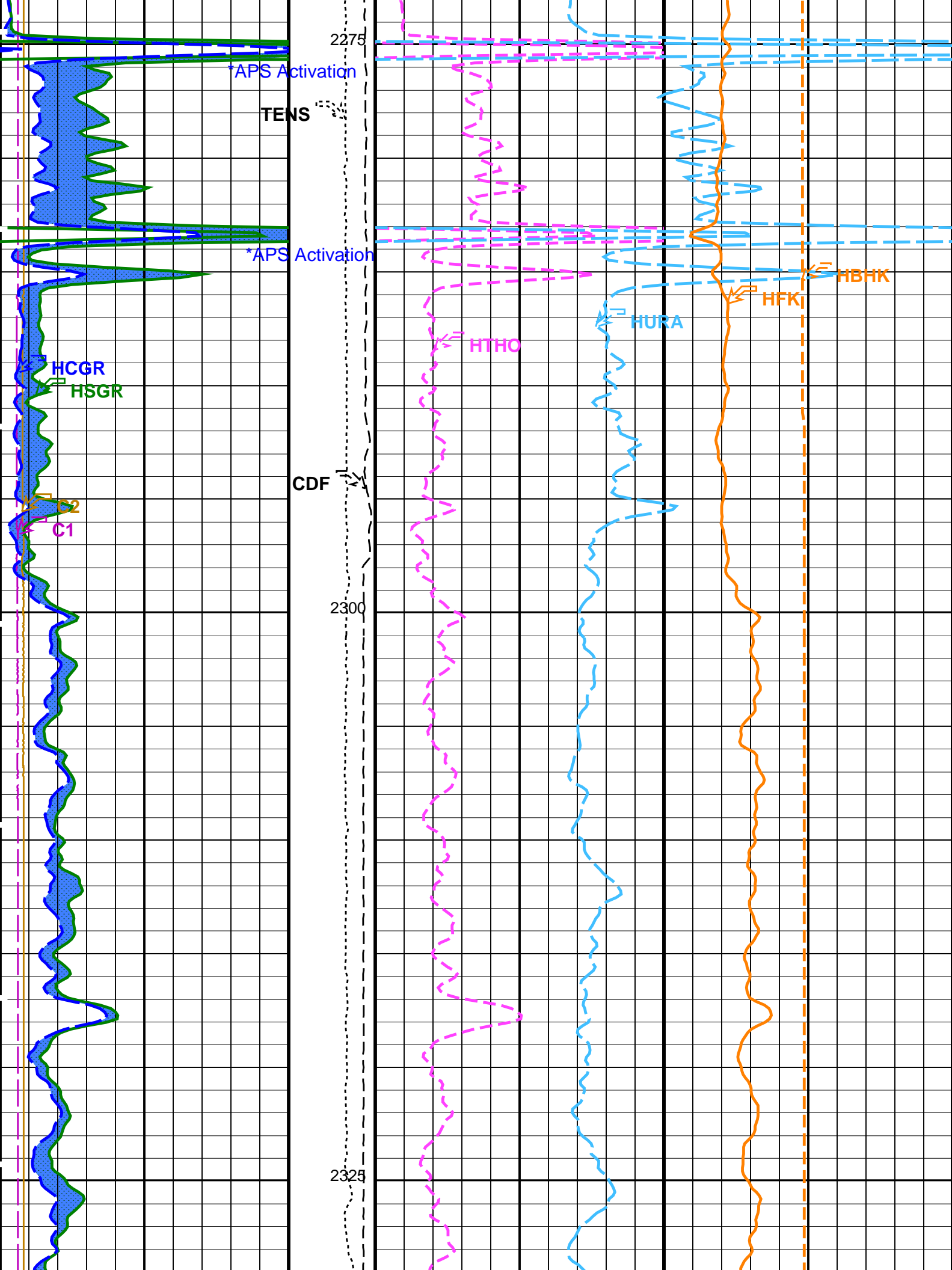
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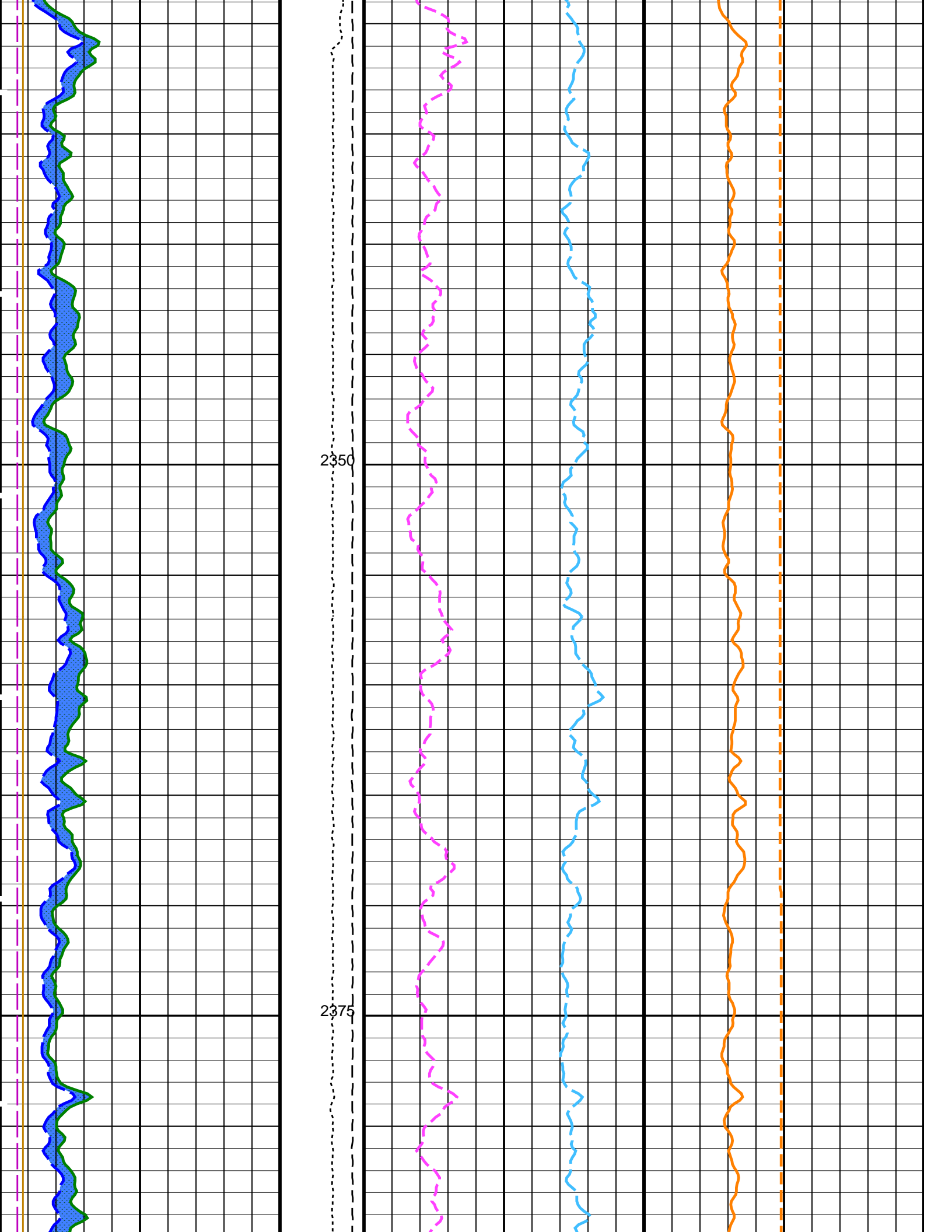


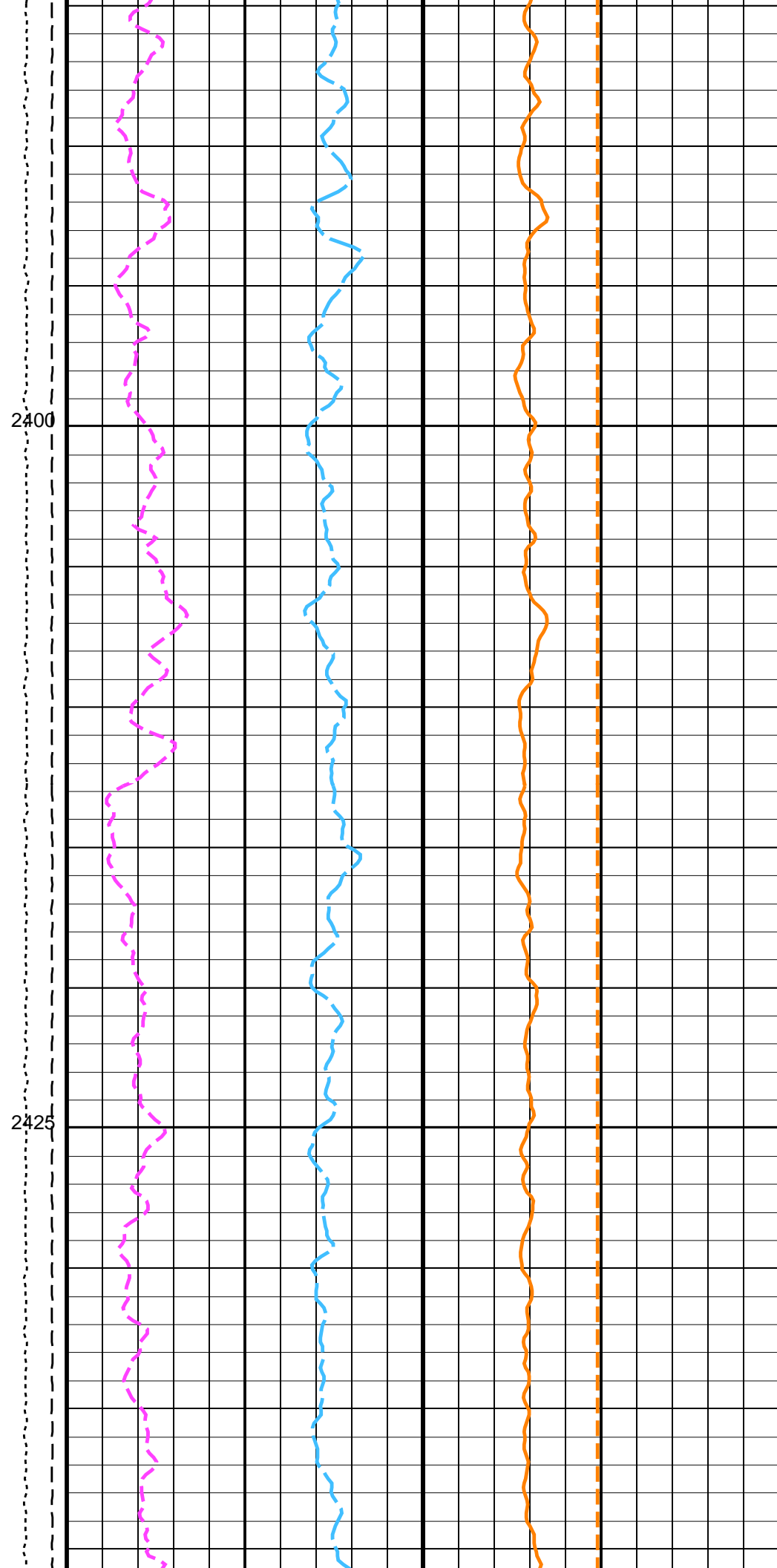
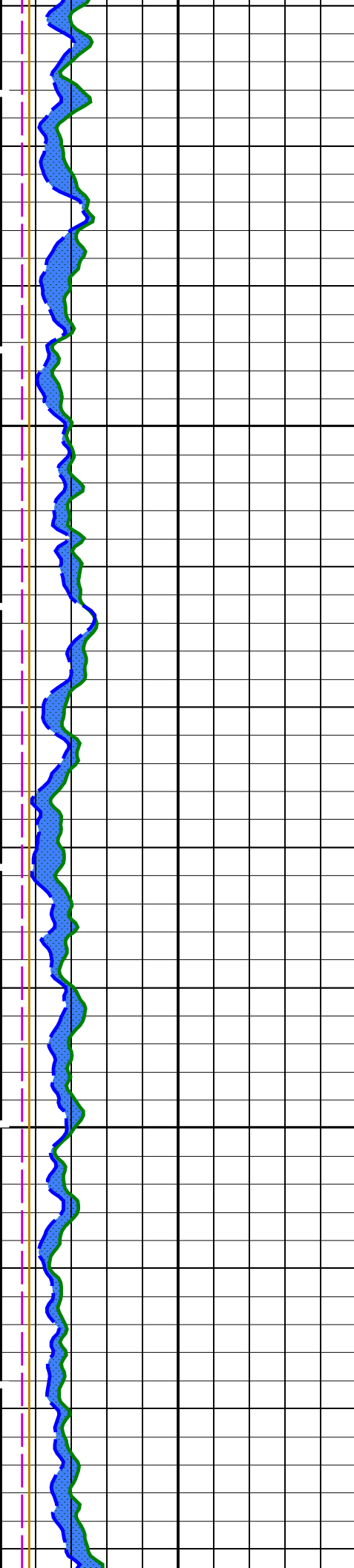
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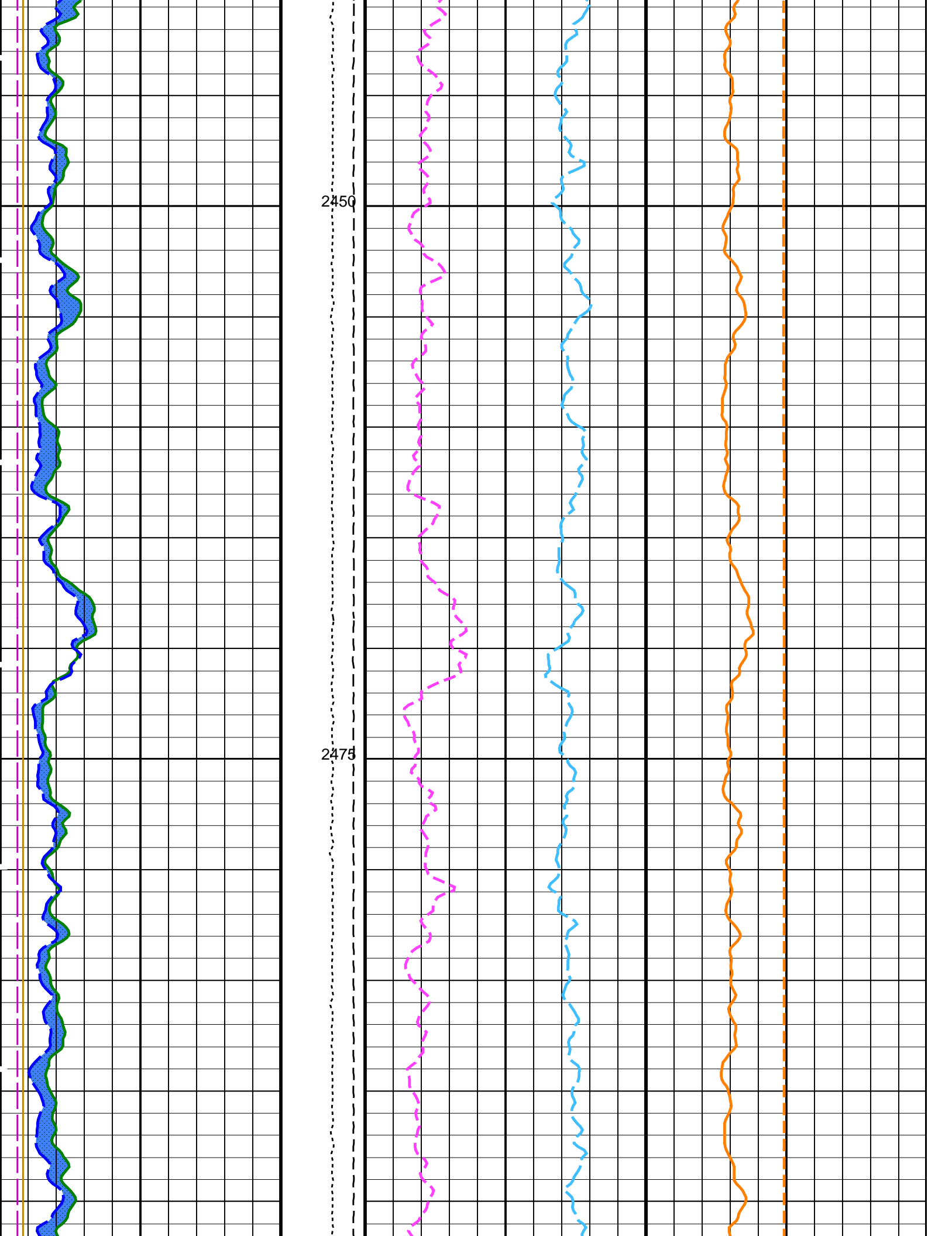


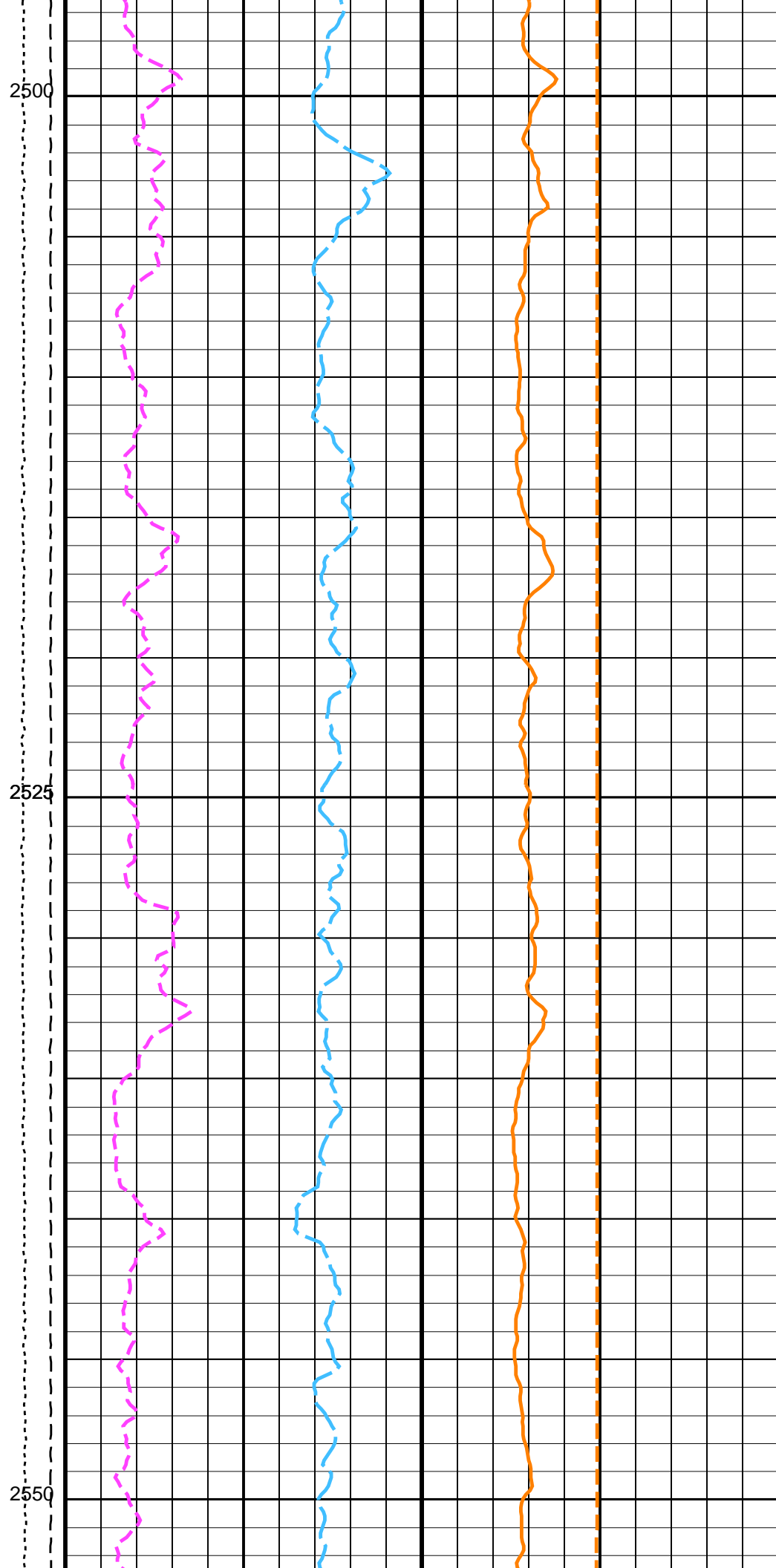
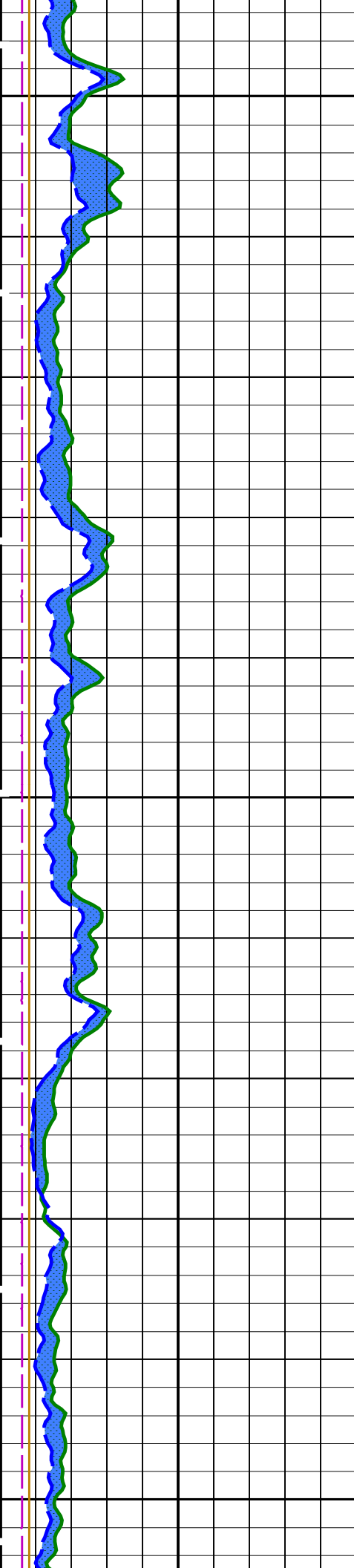


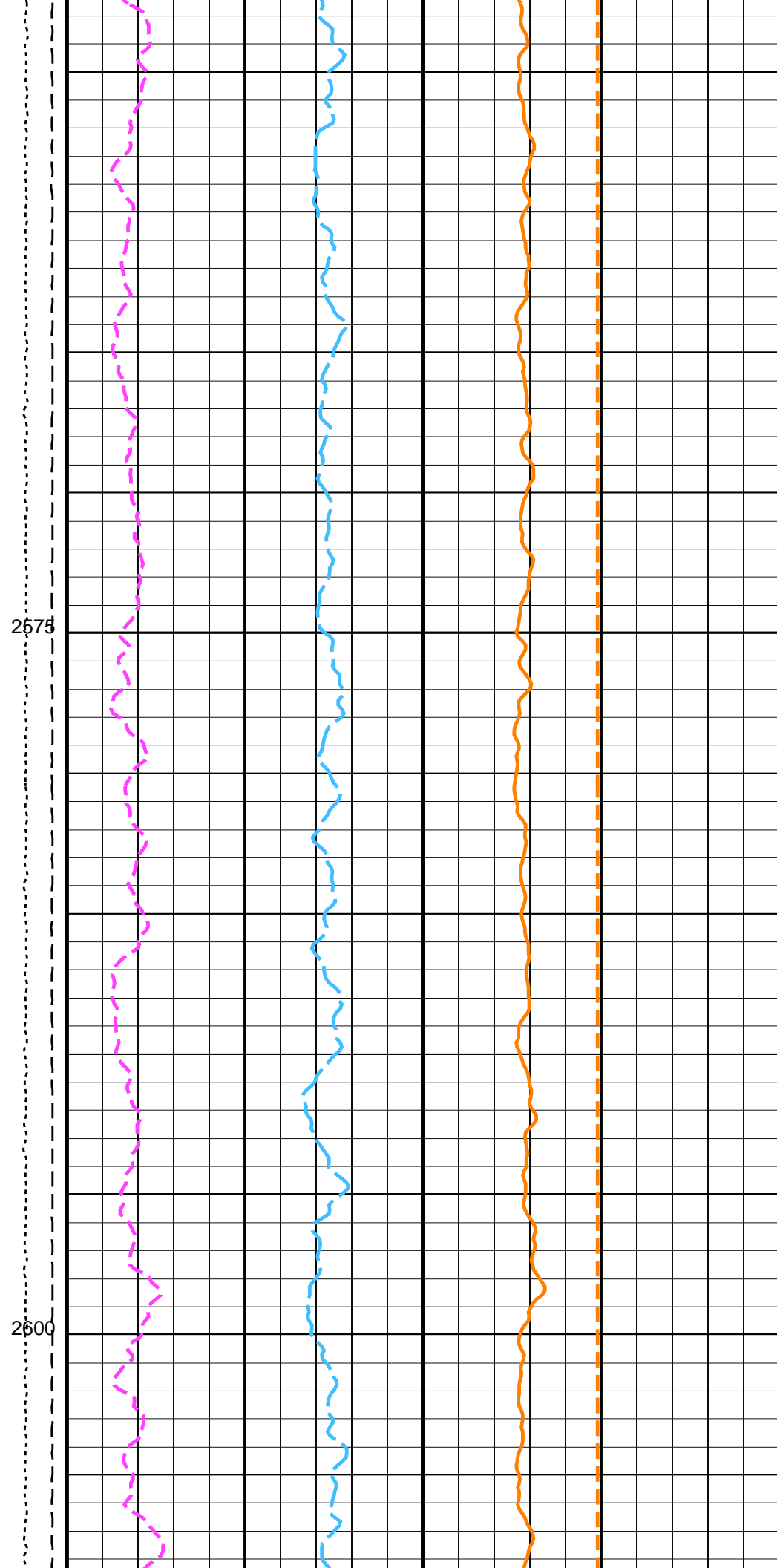
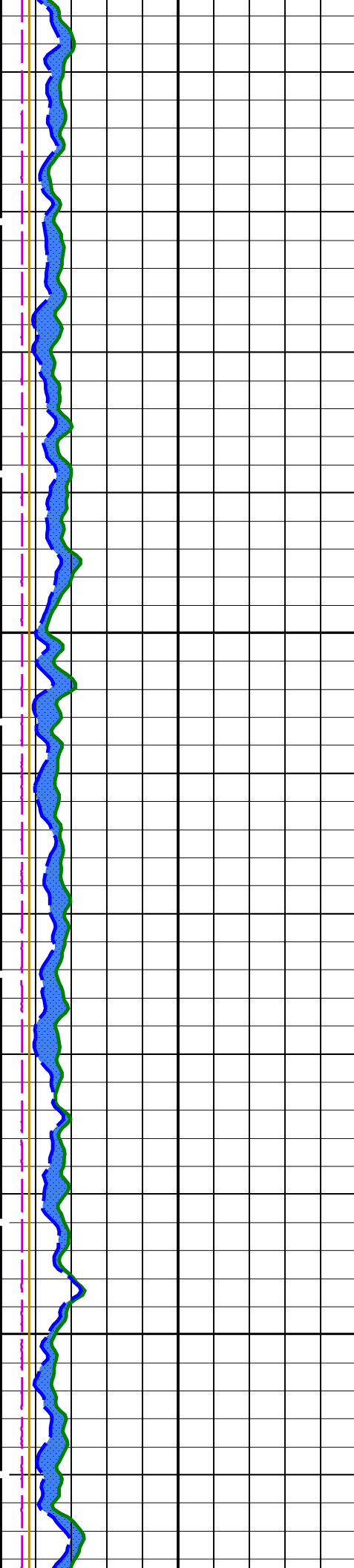


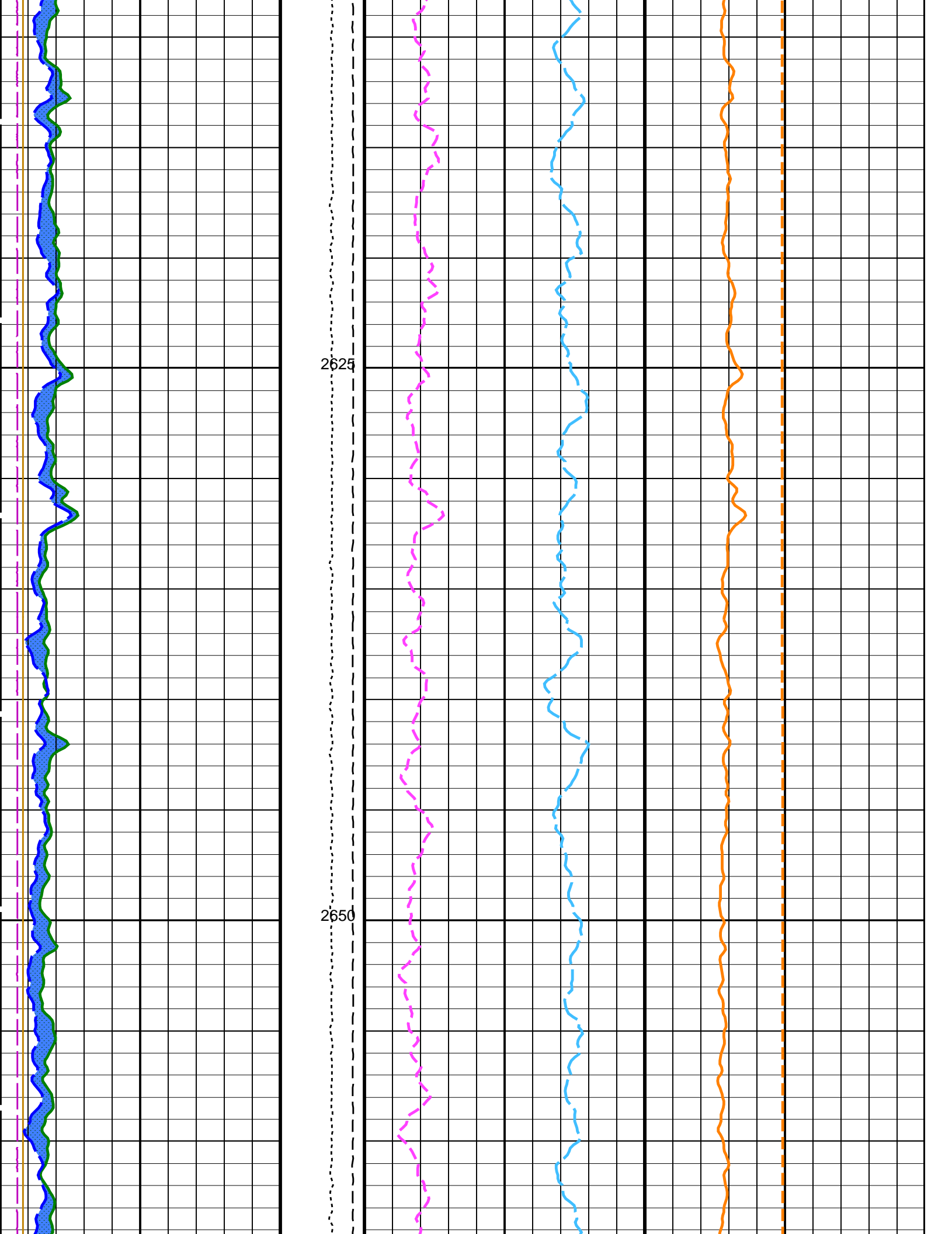


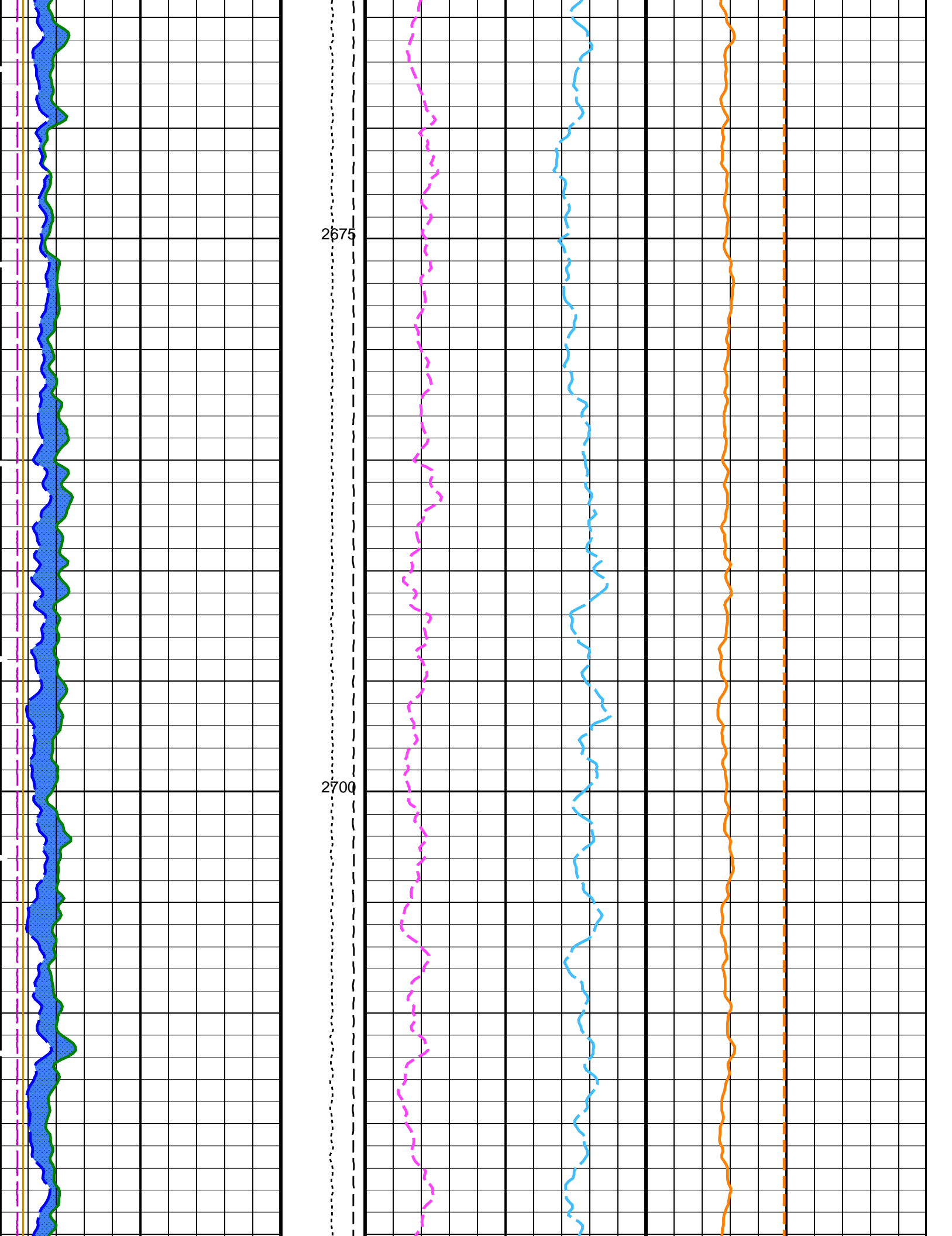


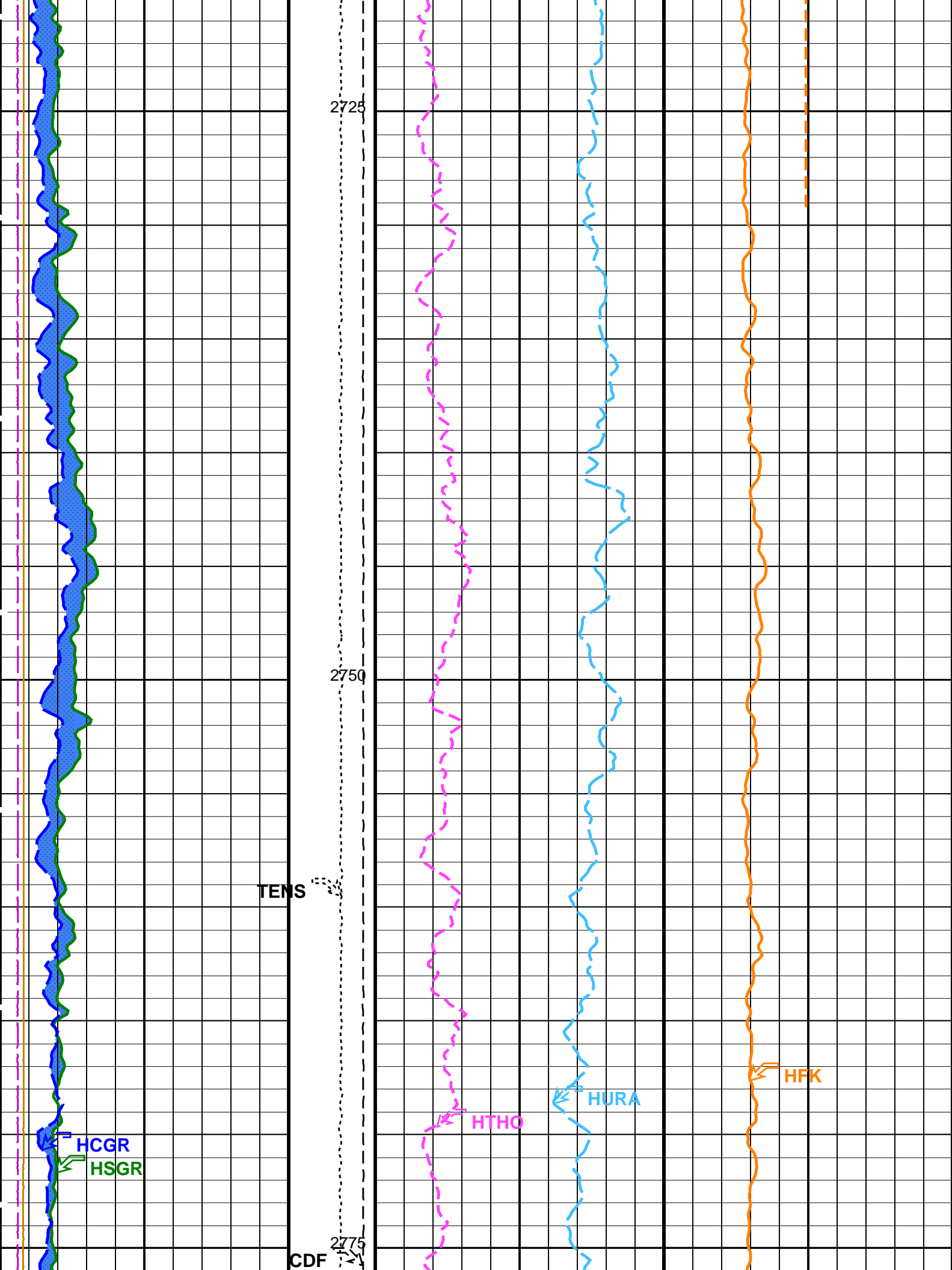


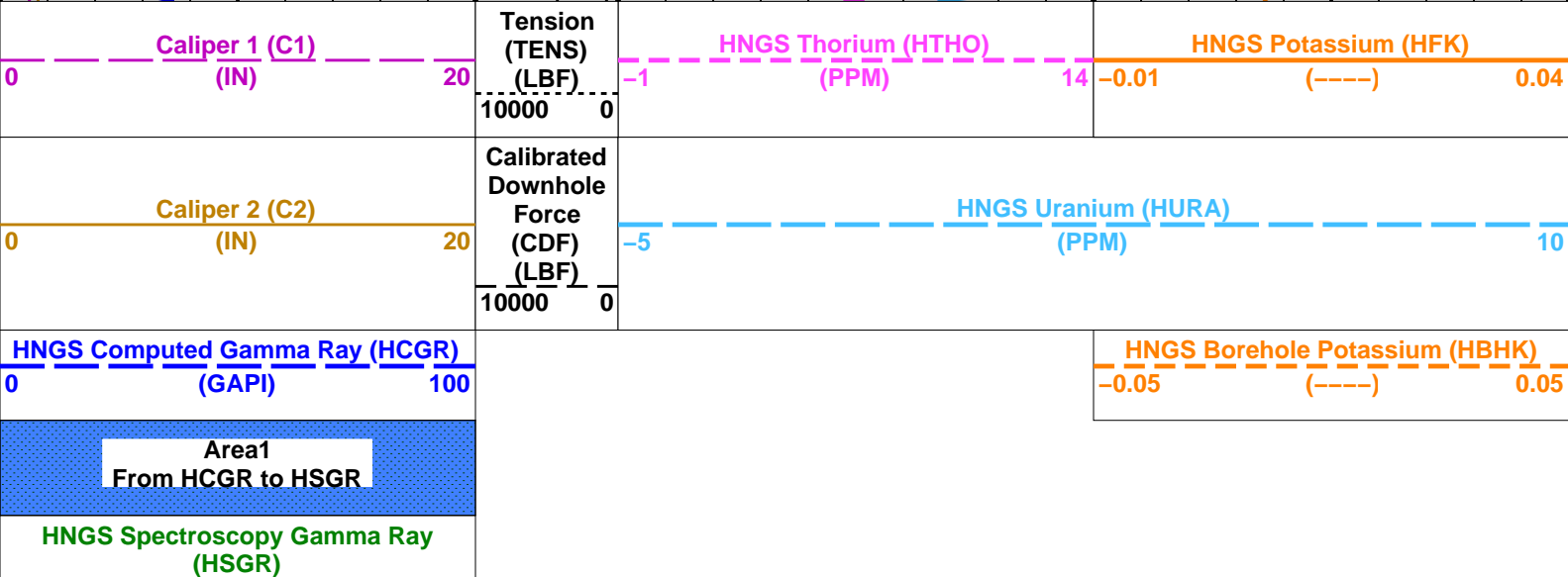
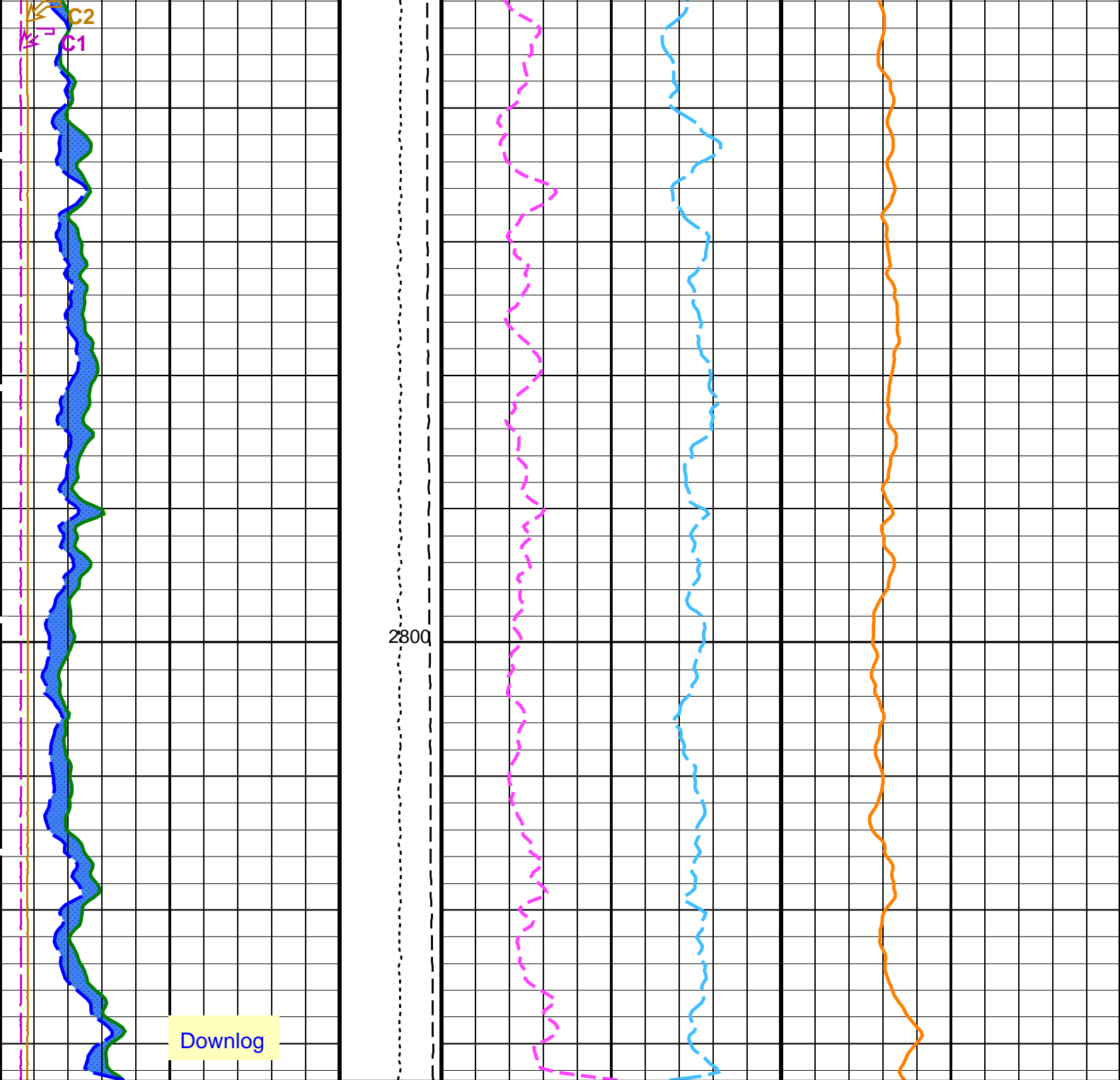












Parameters				
DLIS Name	Description	Value		
DSST-B: Dipole Shear Imager – B				
BHS	Borehole Status	OPEN		
GCSE	Generalized Caliper Selection	BS		
HNGS-BA: Hostile Natural Gamma Ray Sonde				
BAR1	HNGS Detector 1 Barite Constant	1		
BAR2	HNGS Detector 2 Barite Constant	1		
BHK	HNGS Borehole Potassium Correction Concentration	0		
BHS	Borehole Status	OPEN		
CSD1	Inner Casing Outer Diameter	0	IN	
CSD2	Outer Casing Outer Diameter	0	IN	
CSW1	Inner Casing Weight	0	LB/F	
CSW2	Outer Casing Weight	0	LB/F	
DBCC	HNGS Barite Constant Correction Flag	NONE		
GCSE	Generalized Caliper Selection	BS		
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW		
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW		
HABK	HNGS Borehole Potassium Running Average	-0.0105171		
HALF	HNGS Alpha Filter Length	60	IN	
HCRB	HNGS Apply Borehole Potassium Correction	NONE		
HMWM	Mud Weighting Material	NATU		
HNPE	HNGS Processing Enable	YES		
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES		
TPOS	Tool Position	CENT		
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.996636		
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01682		
System and Miscellaneous				
BS	Bit Size	11.438	IN	
DFD	Drilling Fluid Density	1.02	G/C3	
DO	Depth Offset for Playback	0.0	M	
PP	Playback Processing	RECOMPUTE		

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 05-Aug-2021 14:38

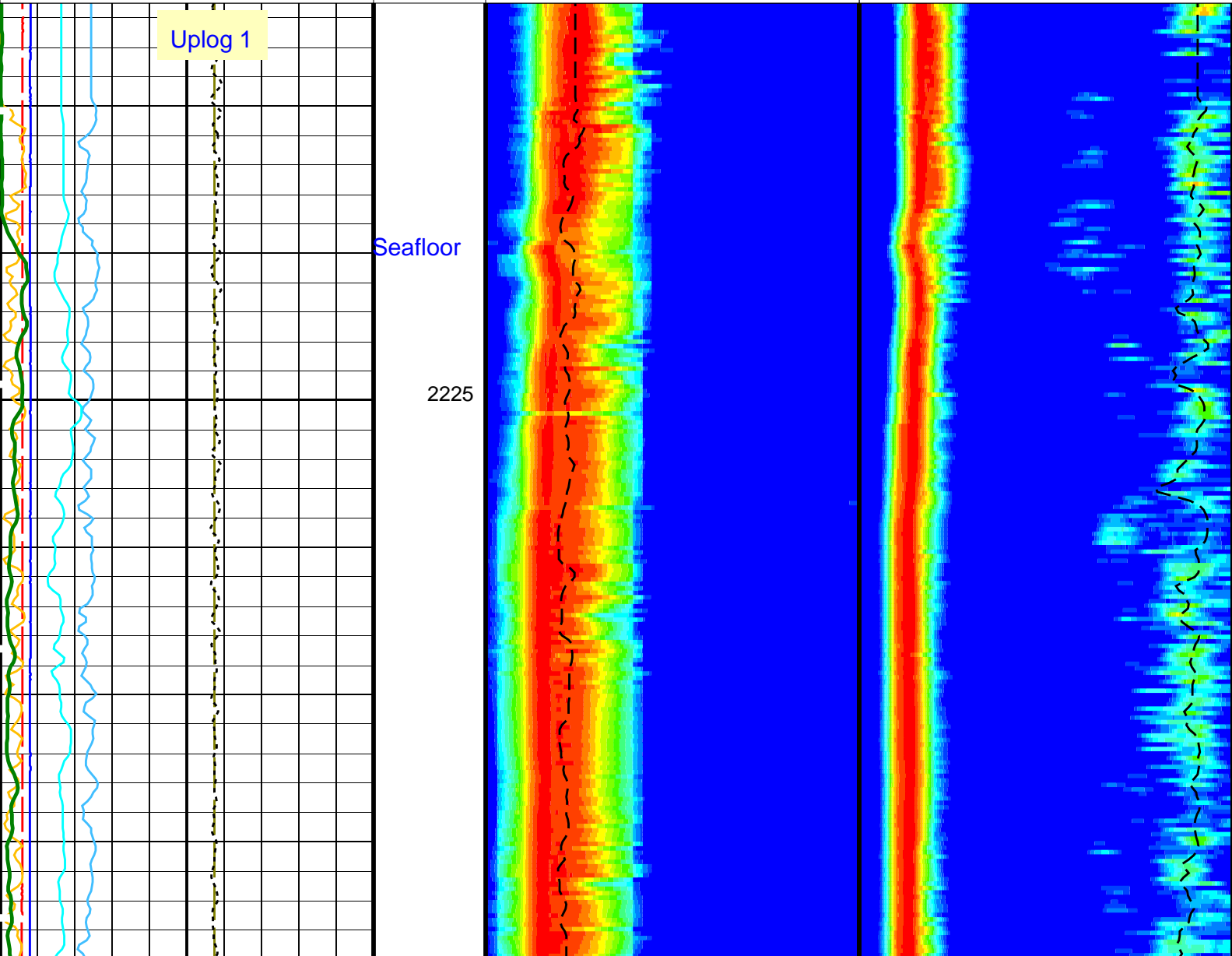
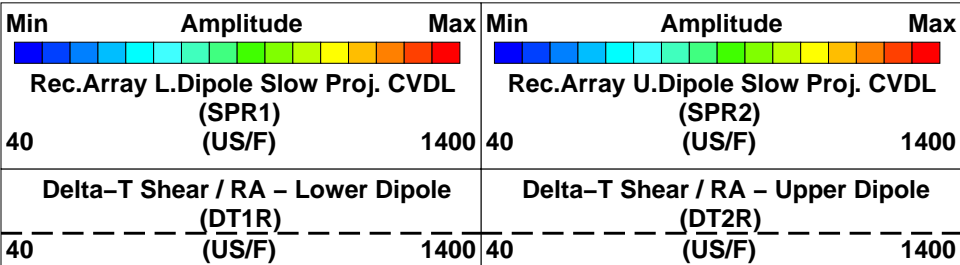
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HNGS-BA	19C0-187	DTC-H	19C0-187	

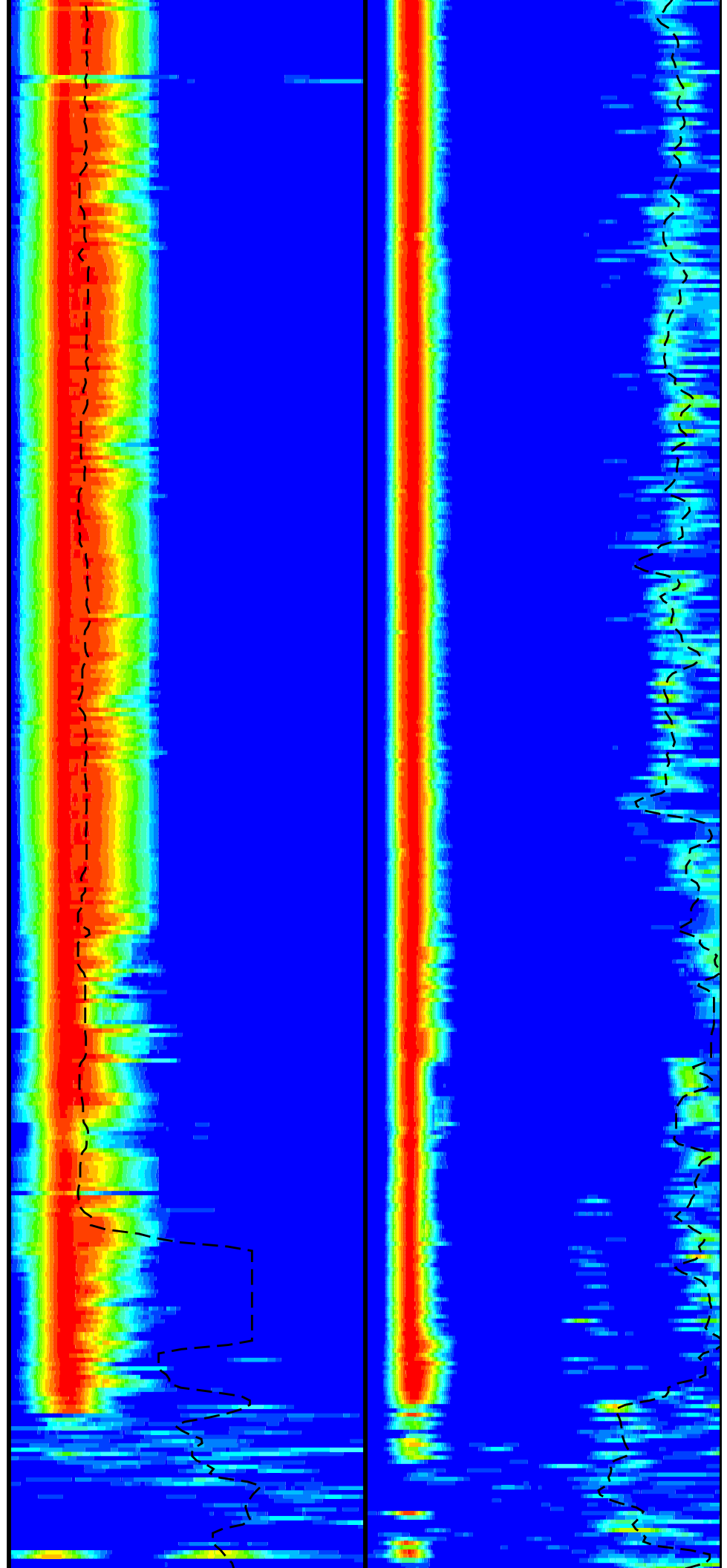
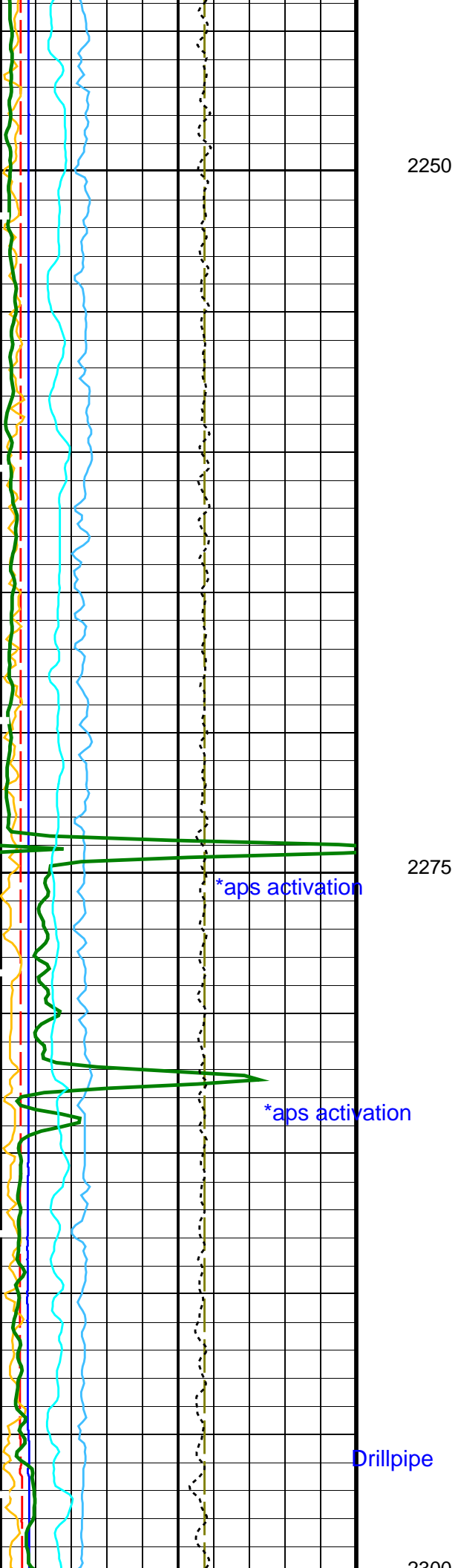
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Output DLIS Files						
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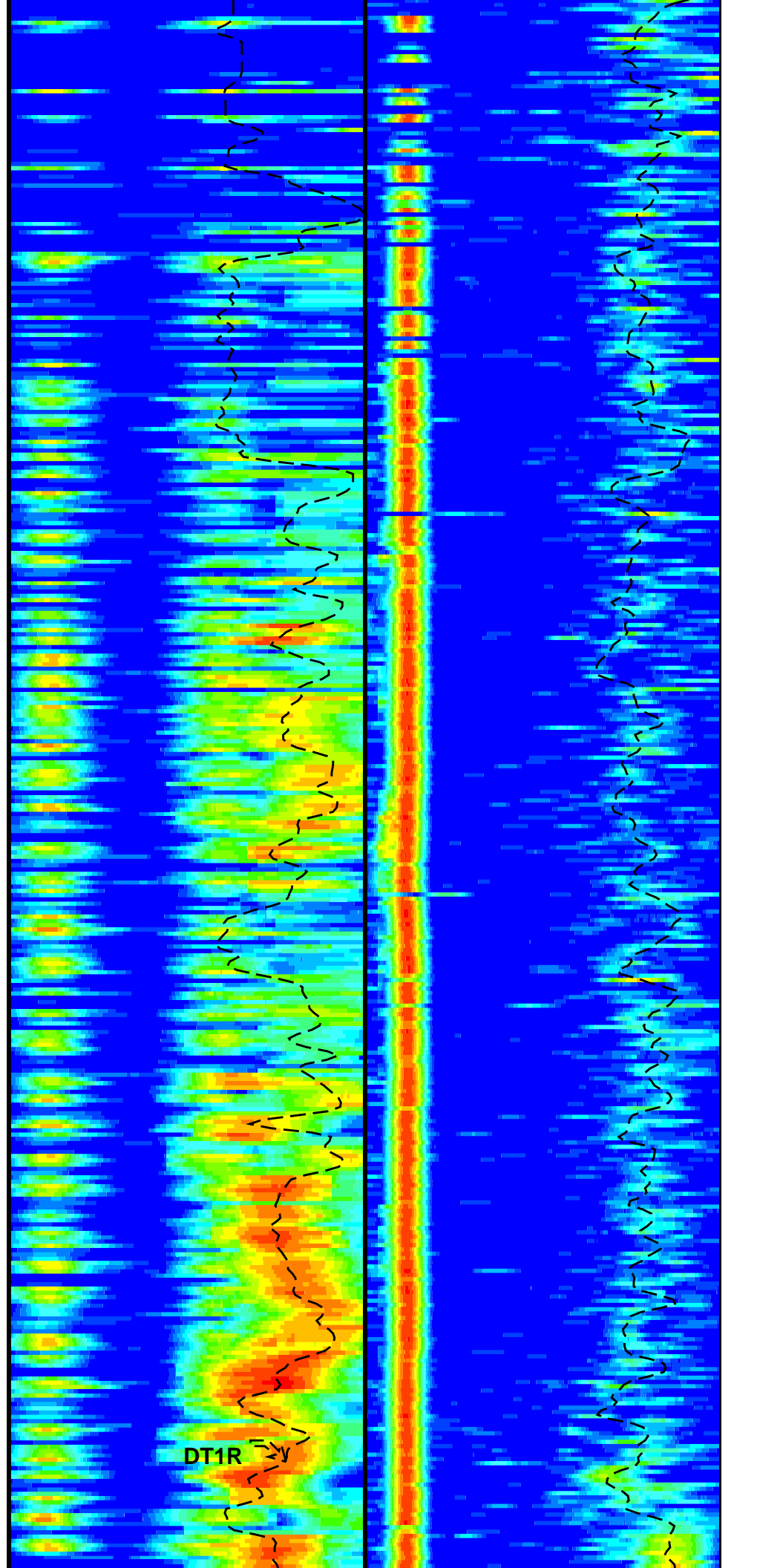
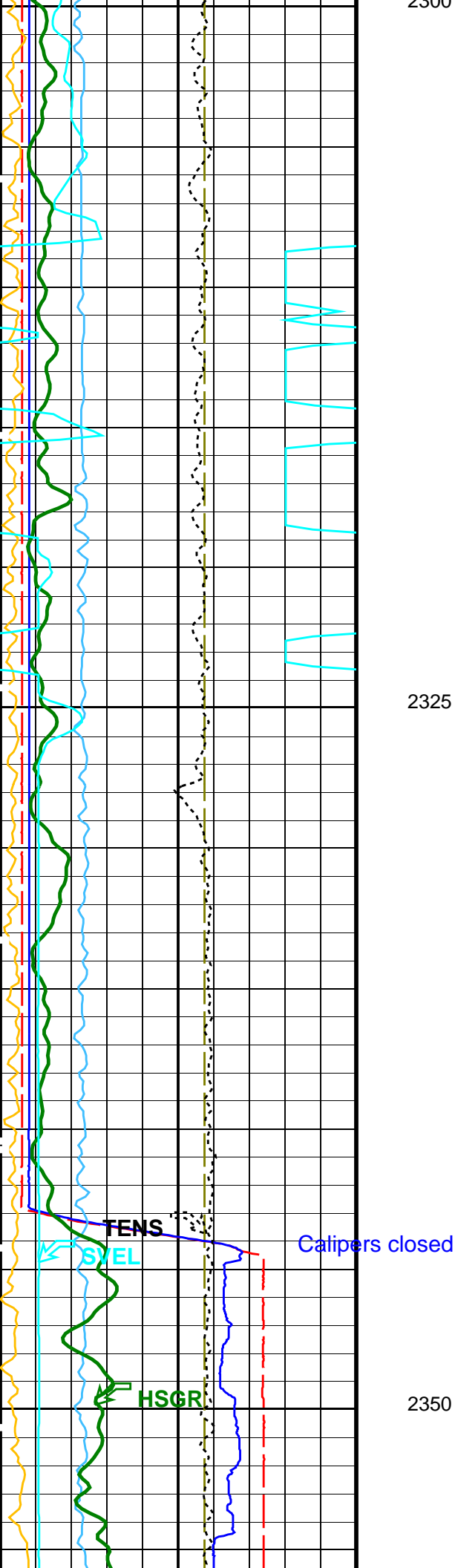
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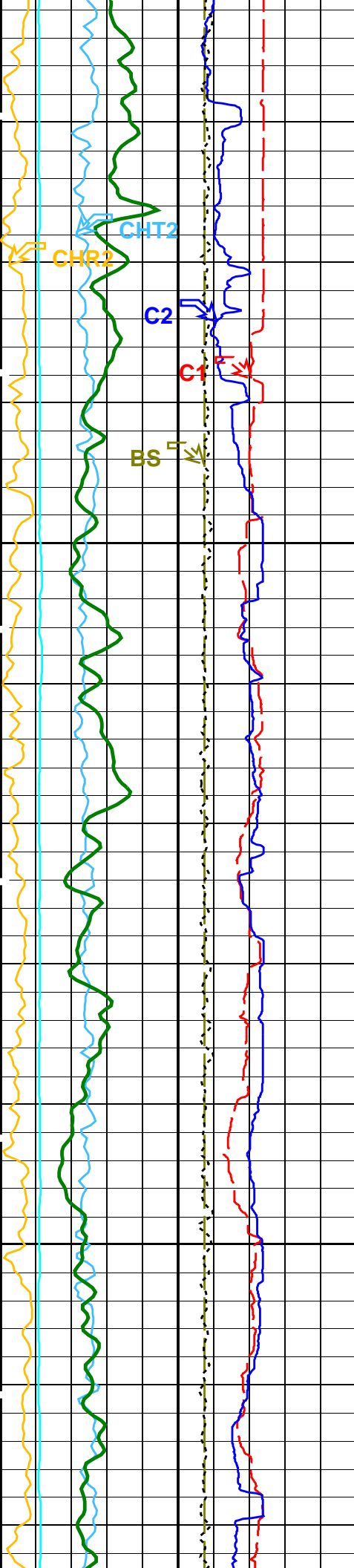
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DSST-B	19C0-187	HNGC-B	19C0-187	
HNGS-BA	19C0-187	DTC-H	19C0-187	

NINGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Peak Coherence / TA – Upper Dipole (CHT2)		
-2	(----)	8
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(----)	10
Tension (TENS)		
10000	(LBF)	0
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Caliper 2 (C2)		
0	(IN)	20
Caliper 1 (C1)		
0	(IN)	20
Bit Size (BS)		
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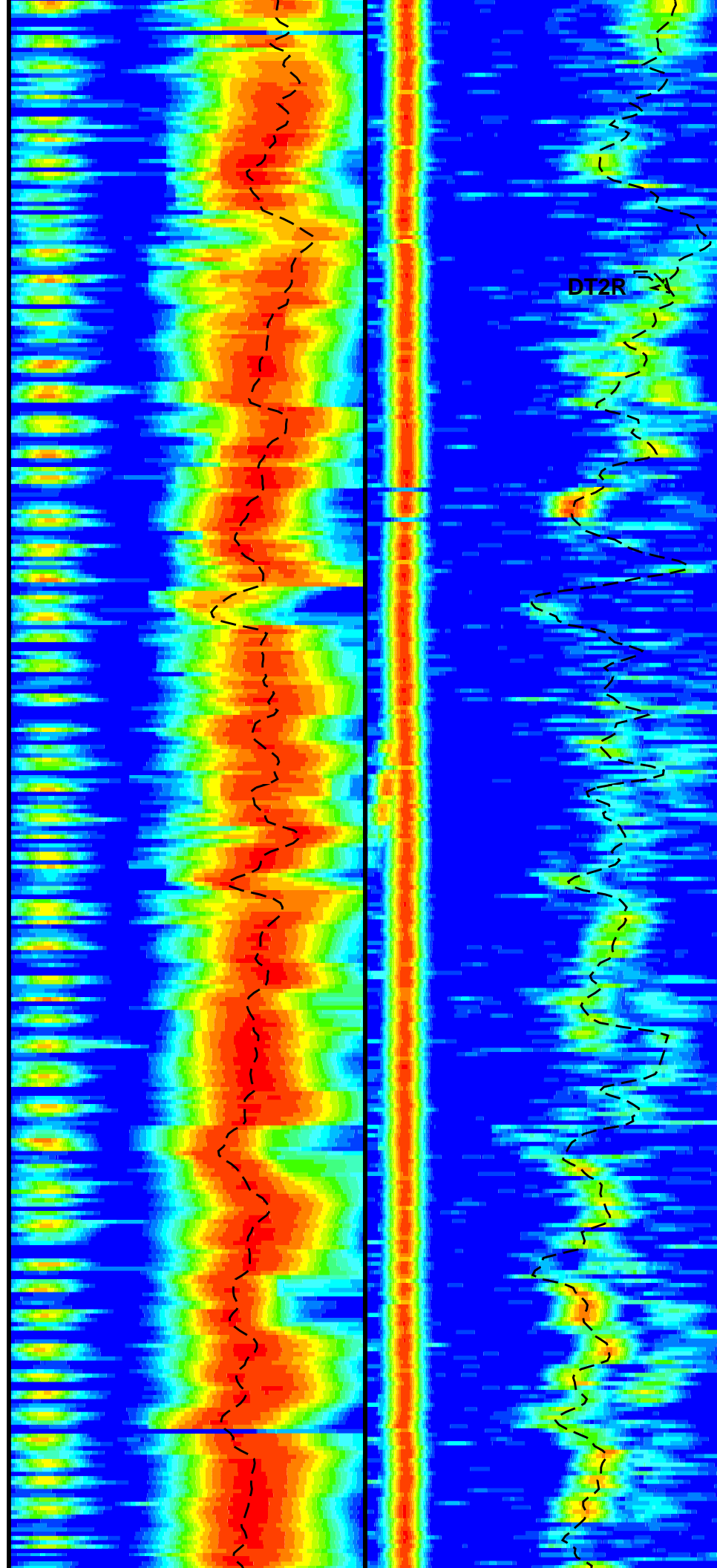


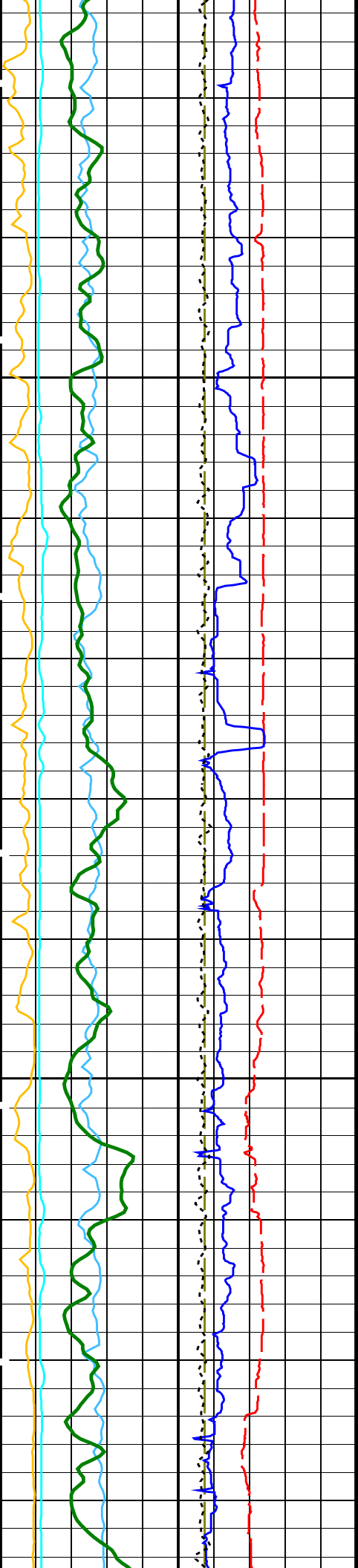




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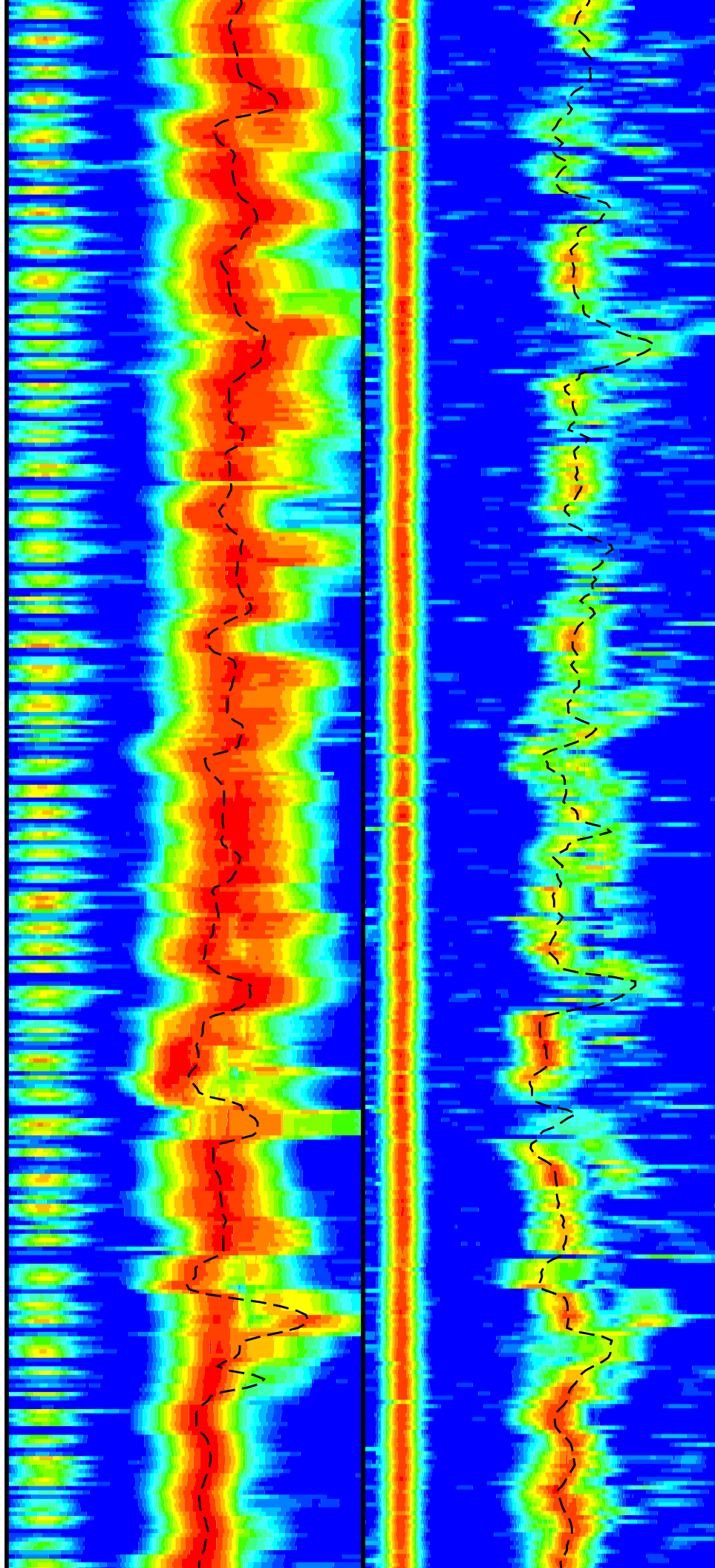
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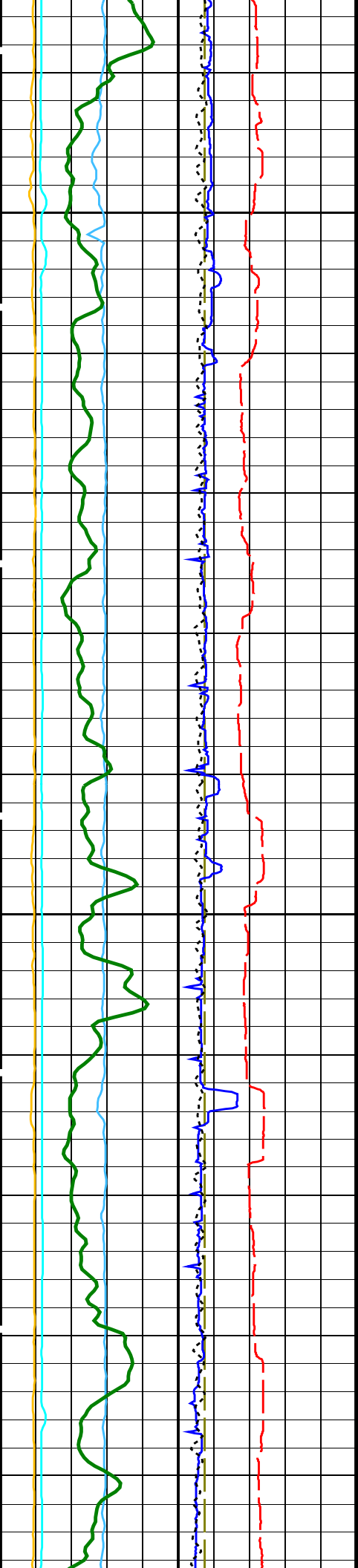




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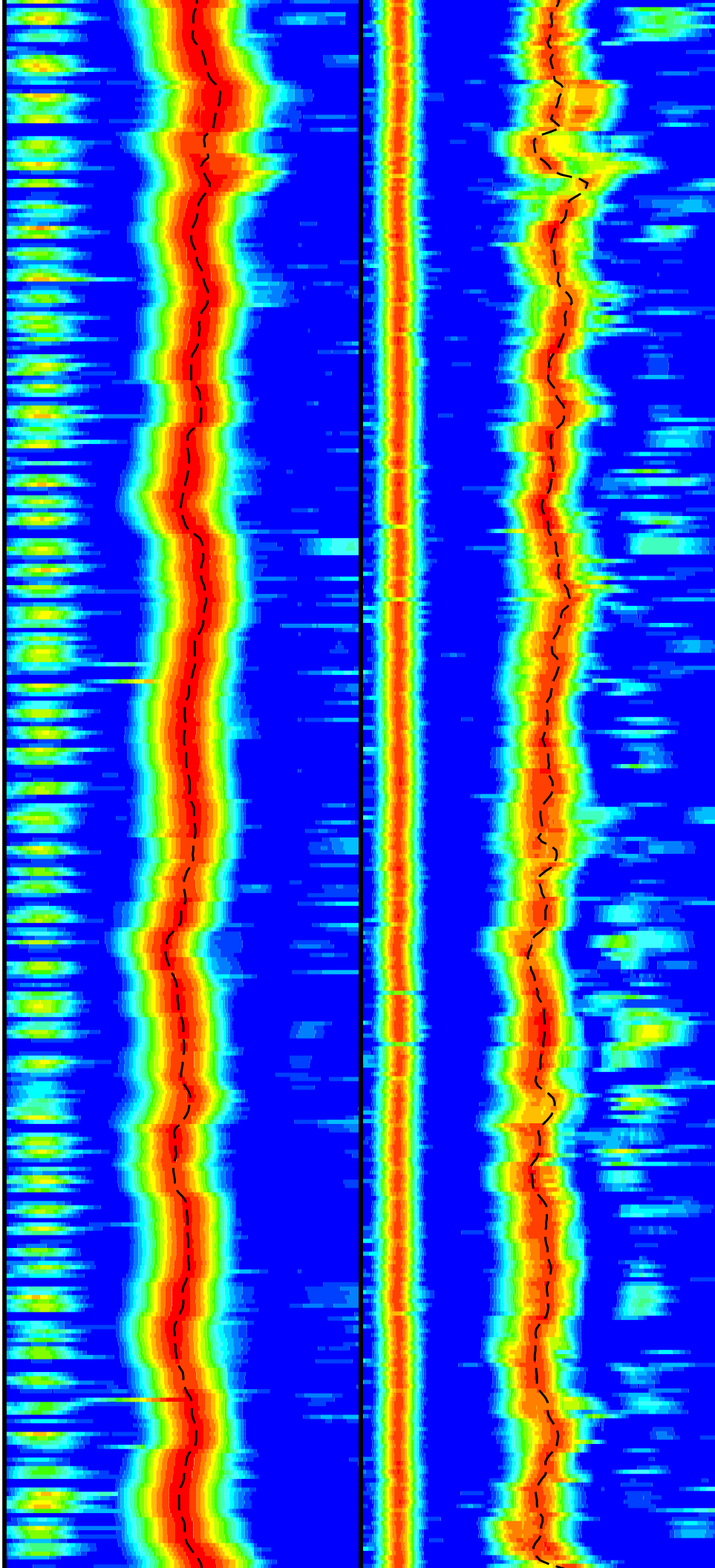
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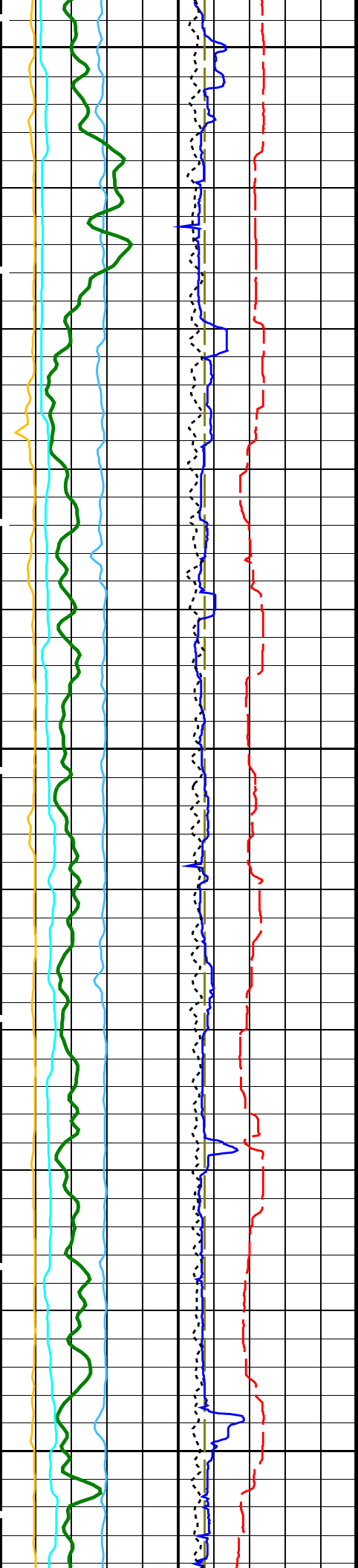




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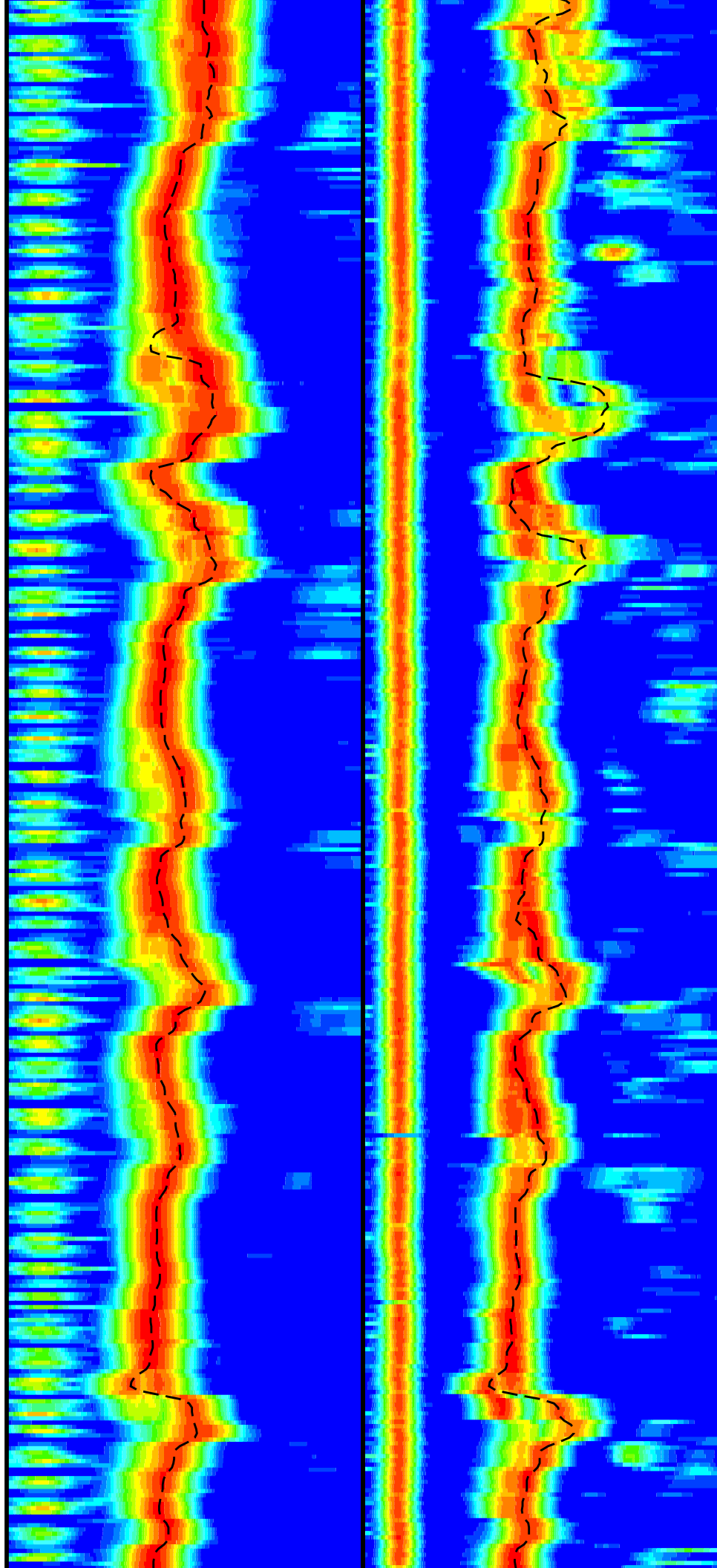


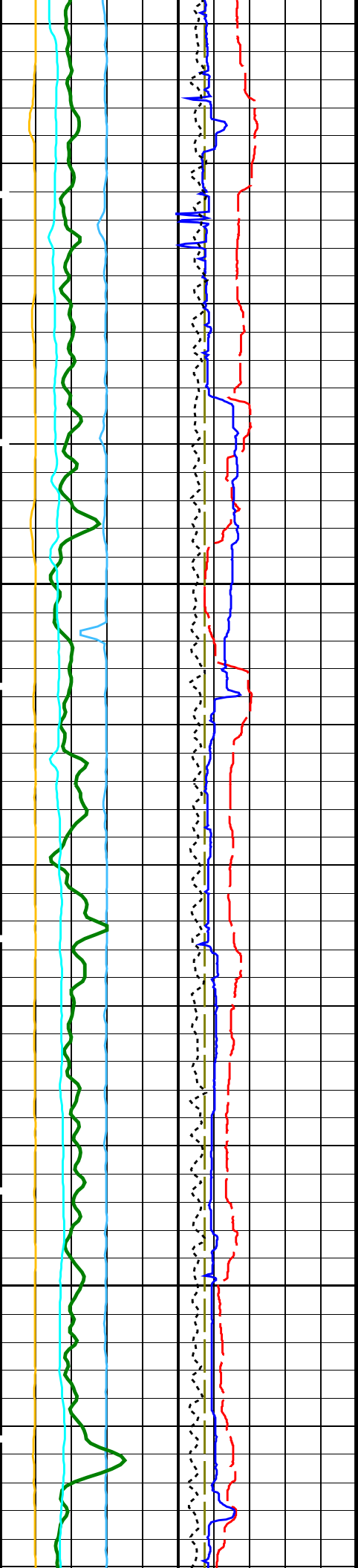


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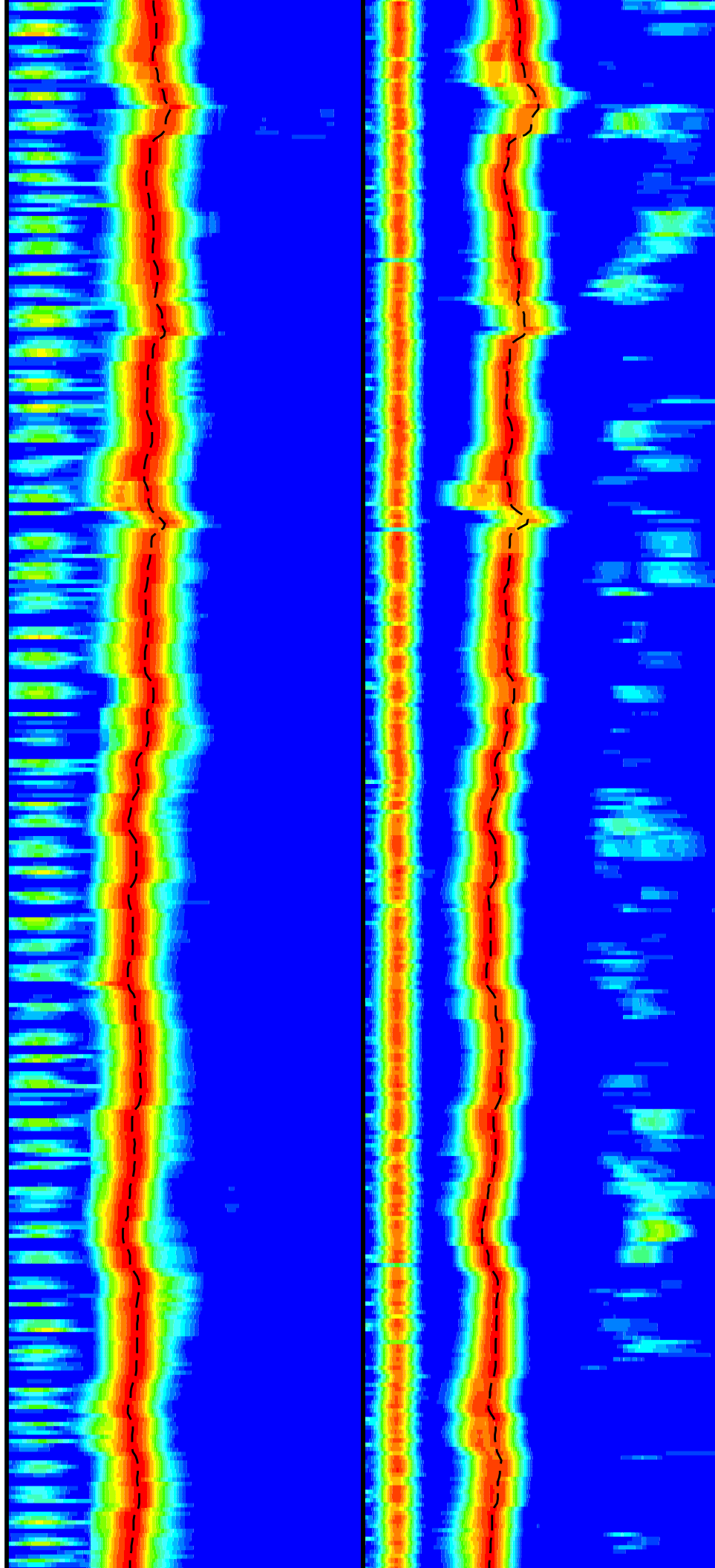
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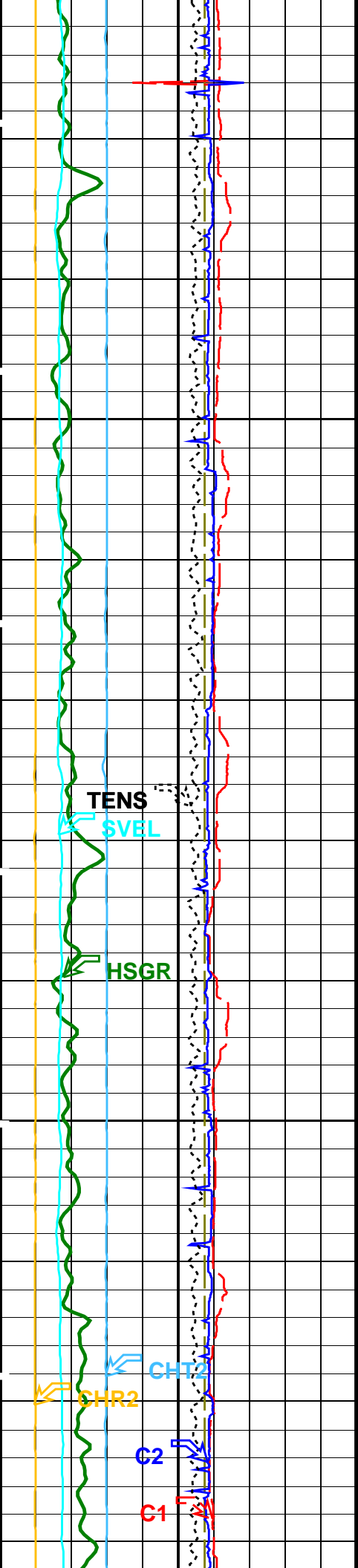




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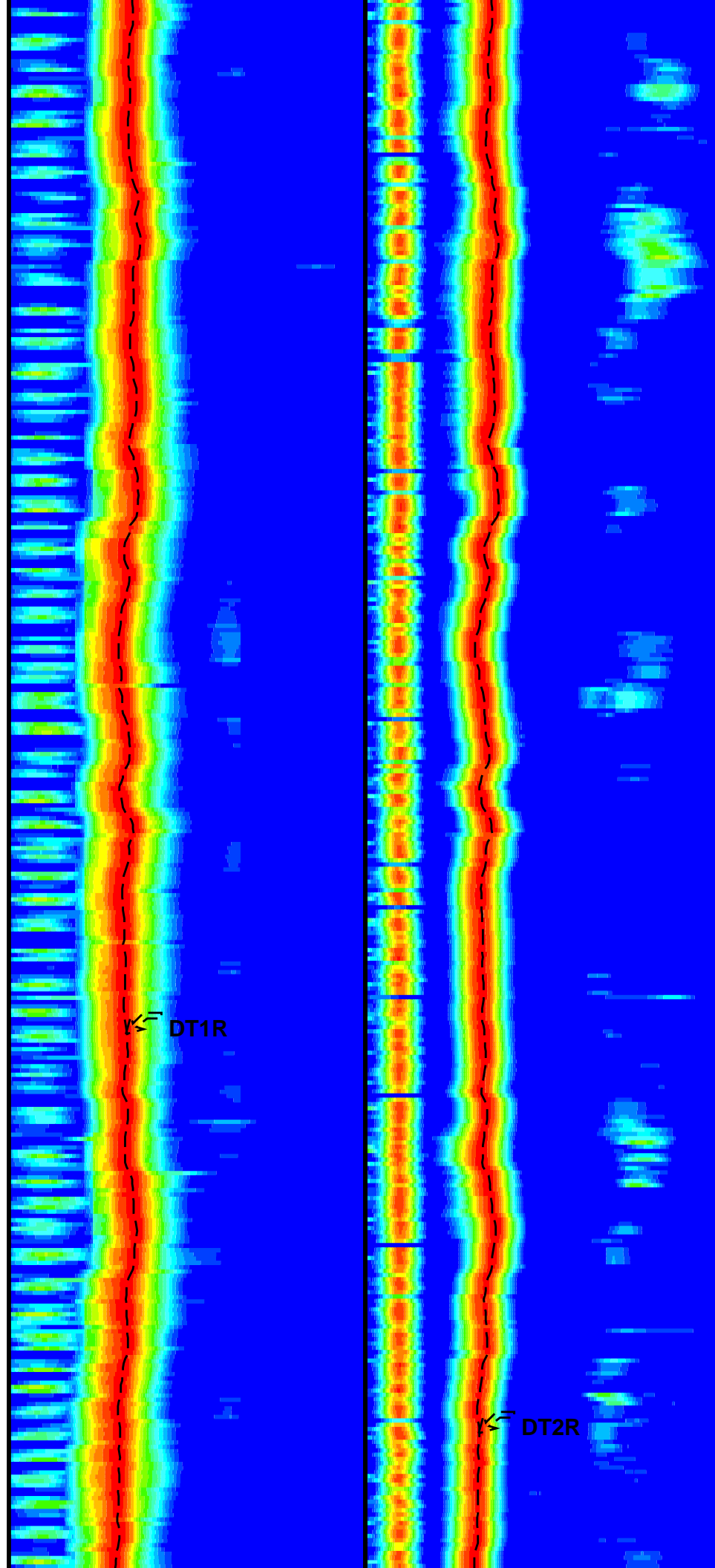
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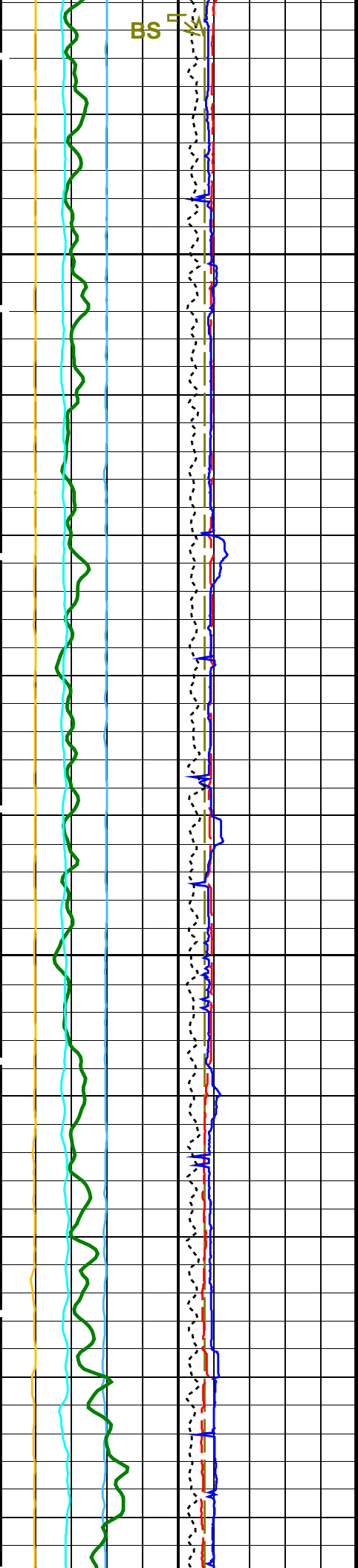




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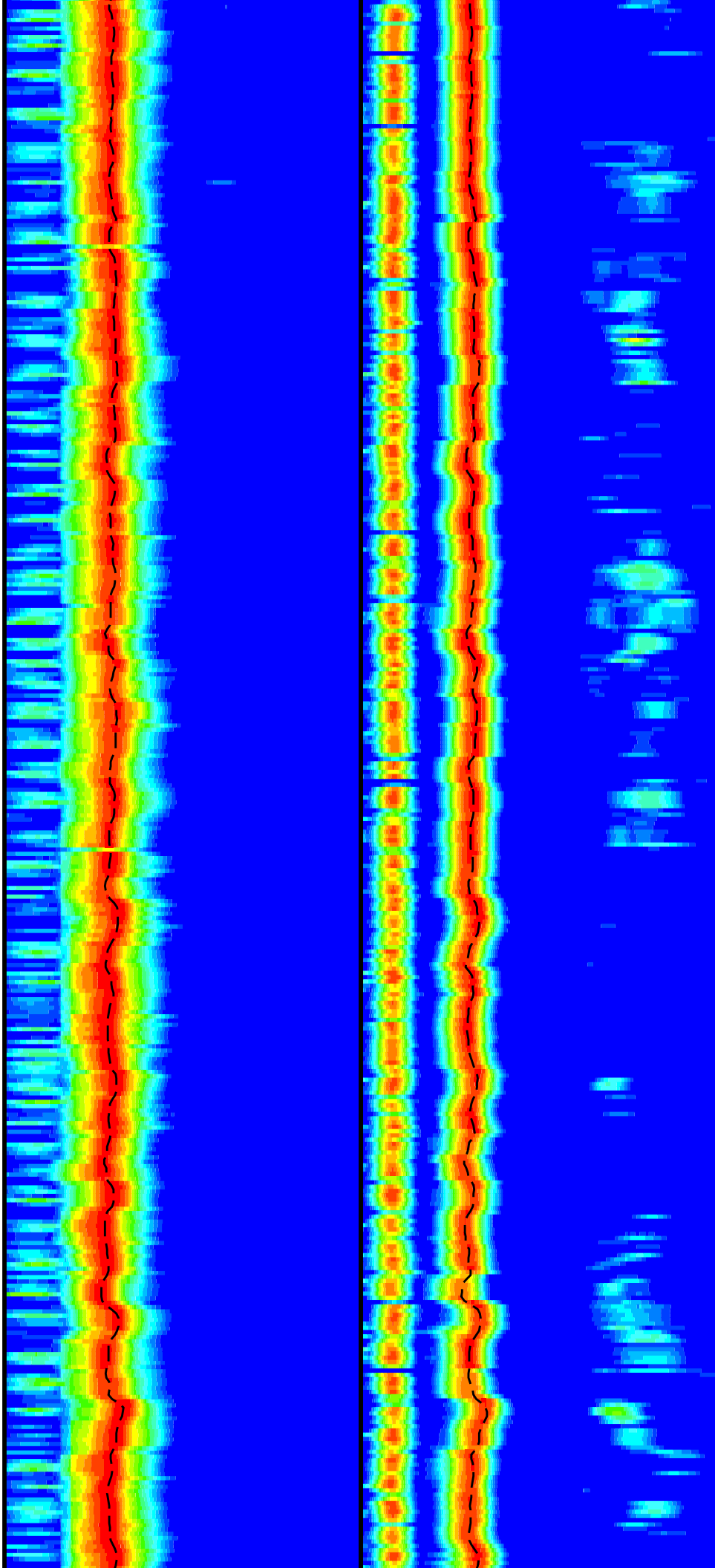
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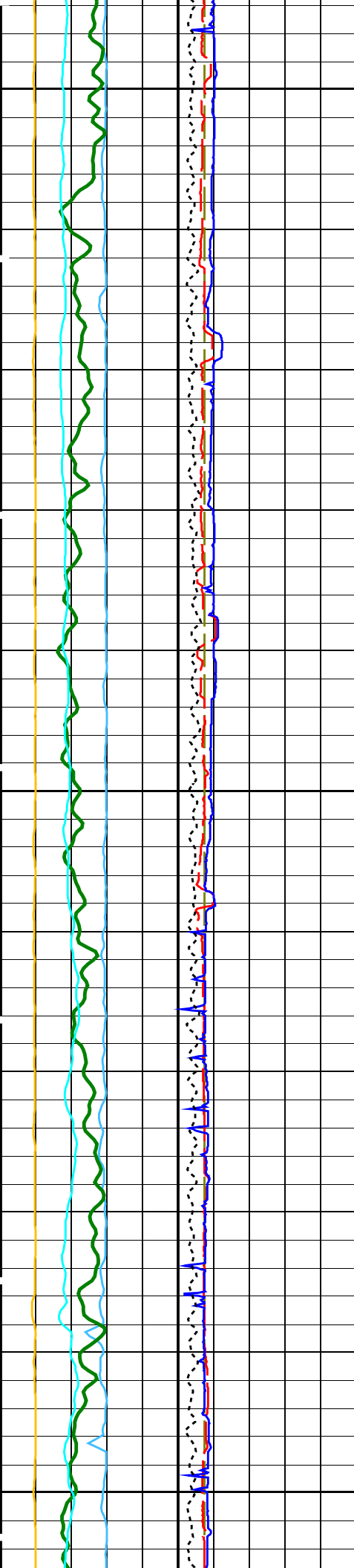




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2725

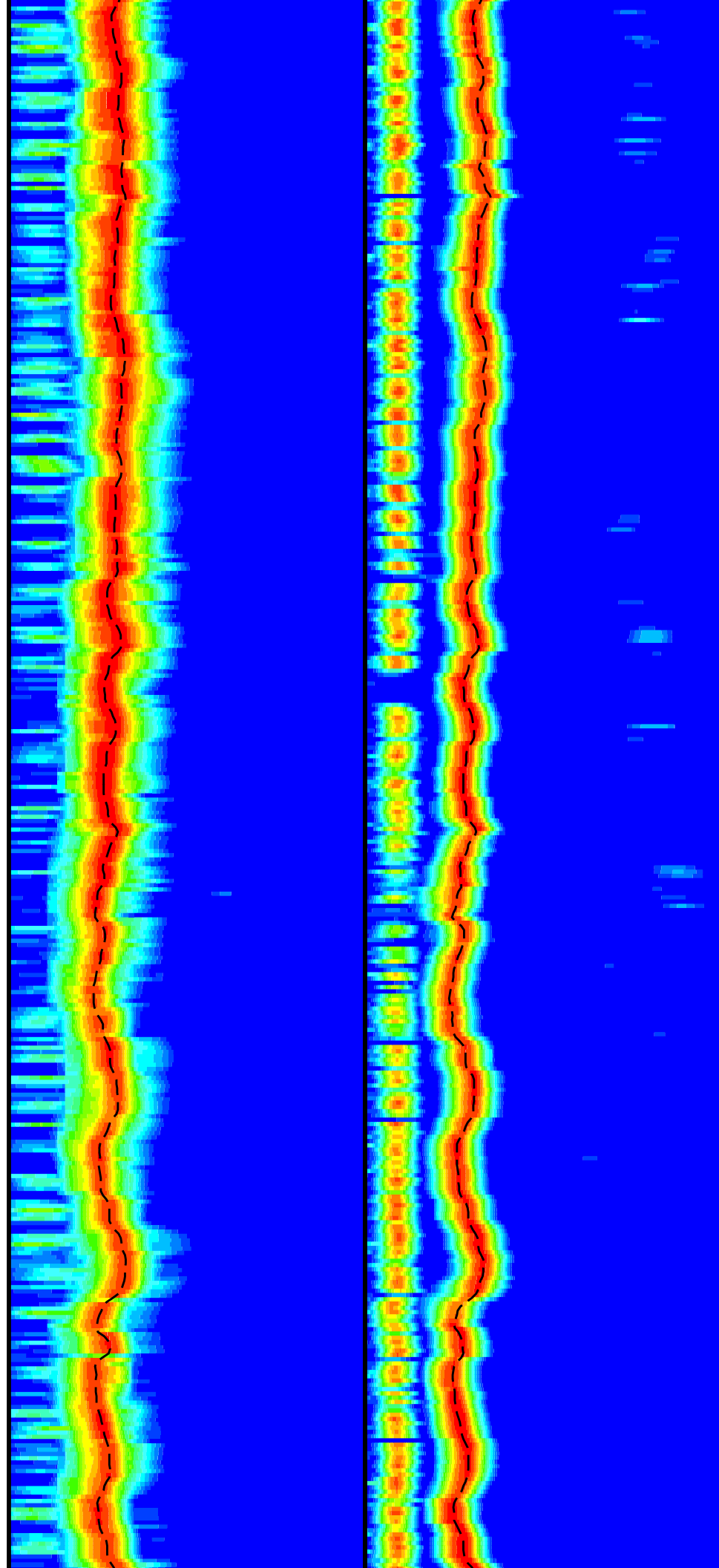


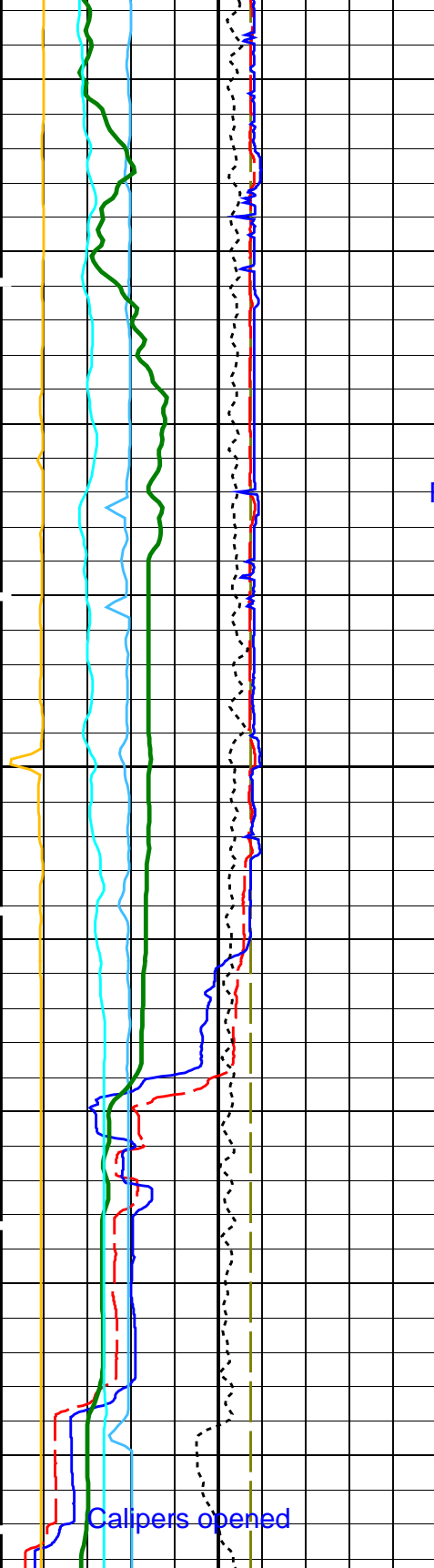


2750

2775

2800





FR hngs

2825

FR DSI-

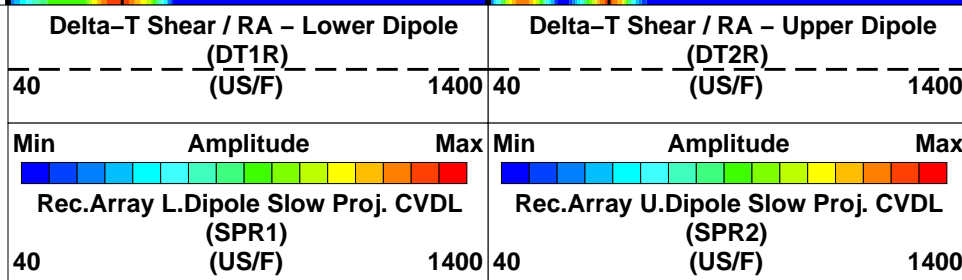
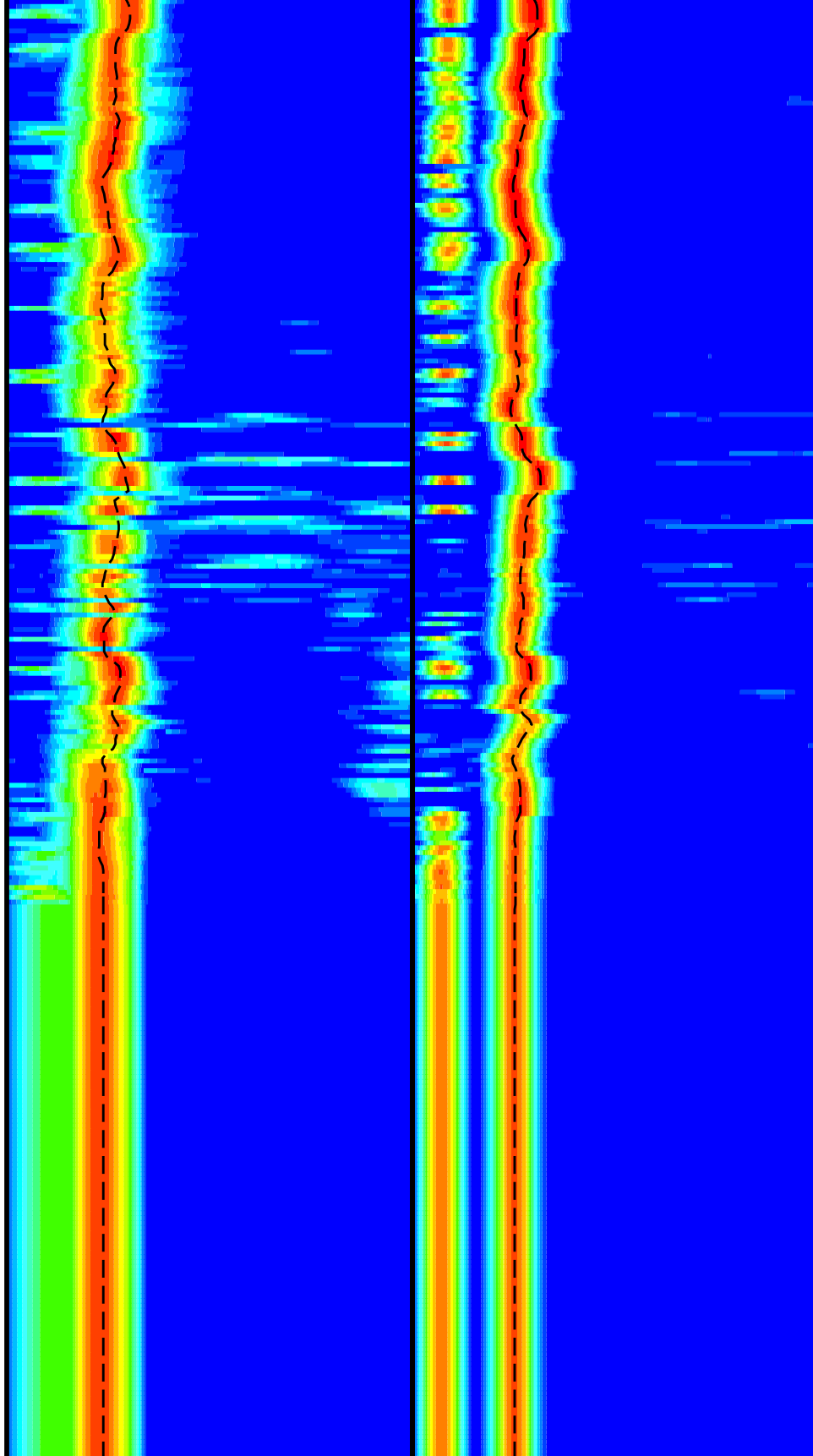
Calipers opened

TD

Bit Size (BS)
(IN) 0 20

Caliper 1 (C1)
(IN) 0 20

Caliper 2 (C2)
(IN) 0 20



1000	Sonic Velocity (SVEL) (M/S)	6000
Tension (TENS)		
10000	(LBF)	0
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(-----)	10
Peak Coherence / TA – Upper Dipole (CHT2)		
-2	(-----)	8
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
DDE1	Digitizing Delay 1	0	US
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	300	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1400	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta–T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
GCSE	Generalized Caliper Selection	C1	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN	
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SFM2	STC Filter – Upper Dipole	B1–2K	
SLL1	STC Slowness Lower Limit – Lower Dipole	40	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	40	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL1	STC Slowness Upper Limit – Lower Dipole	1400	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1400	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US

TLL2	STC Time Lower Limit – Upper Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TST2	STC Time Step – Upper Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	20440	US
TUL2	STC Time Upper Limit – Upper Dipole	20440	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
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	–0.00173657	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01718	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03527	
System and Miscellaneous			
BS	Bit Size	11.438	IN

Format: UpperLowerDipole_40_1040 Vertical Scale: 1:200 Graphics File Created: 04–Aug–2021 14:11

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	DTC–H	19C0–187

Output DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:40	PRODUCER	04–Aug–2021 14:11
BACKUP	FMS_DSI_NGS_025LUP	FN:41	PRODUCER	04–Aug–2021 14:11

Company: International Ocean Discovery Program Well: Expedition 395C, Site U1564C

Output DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:40	PRODUCER	04–Aug–2021 14:11	2848.4 M	2211.3 M
BACKUP	FMS_DSI_NGS_025LUP	FN:41	PRODUCER	04–Aug–2021 14:11	2848.4 M	2211.3 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	DTC–H	19C0–187

PIP SUMMARY

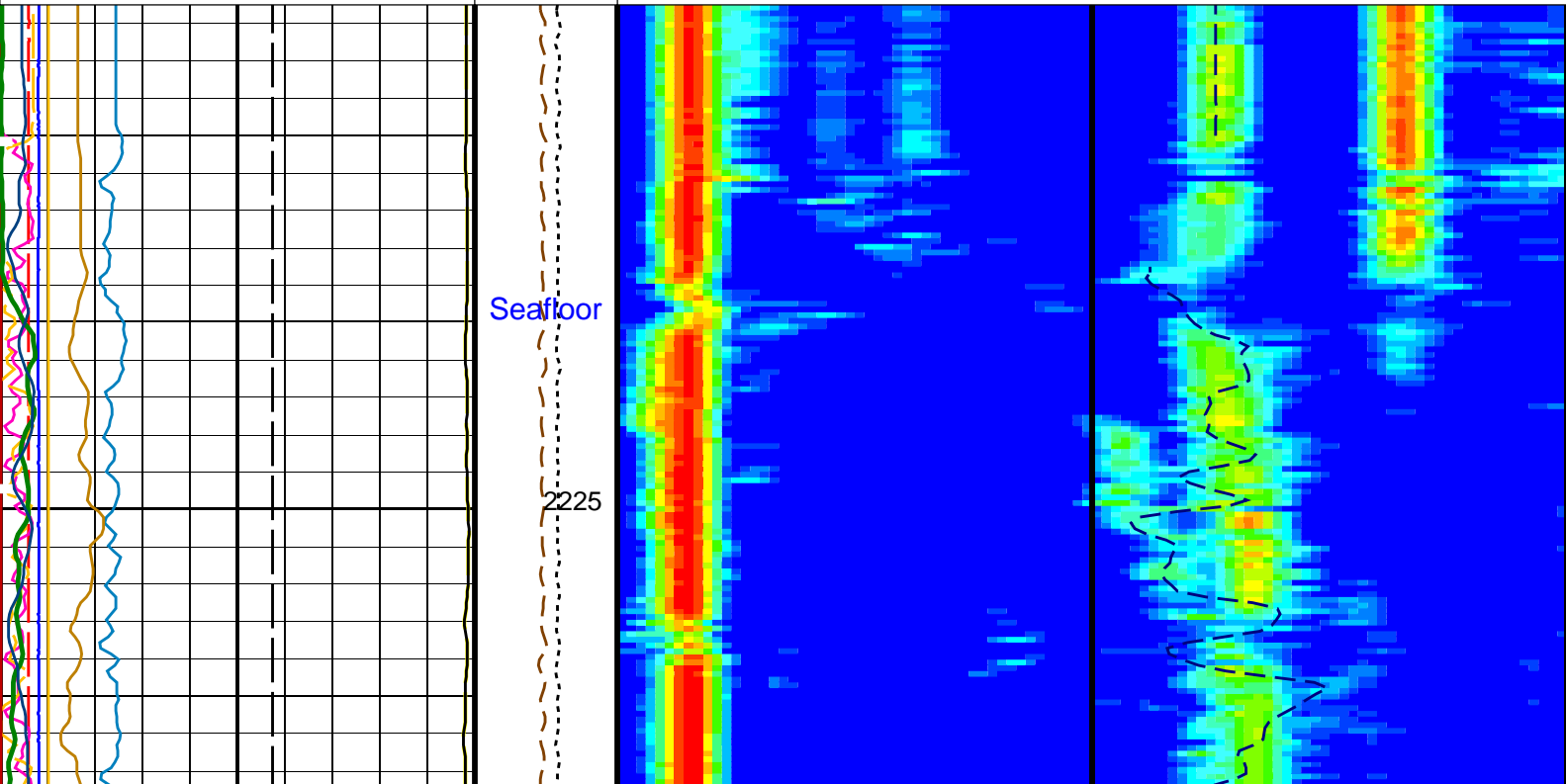
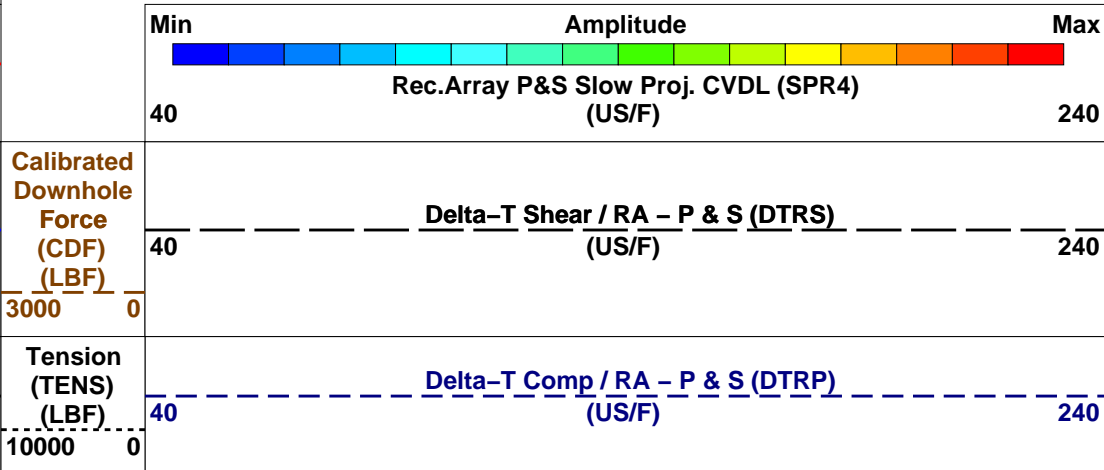
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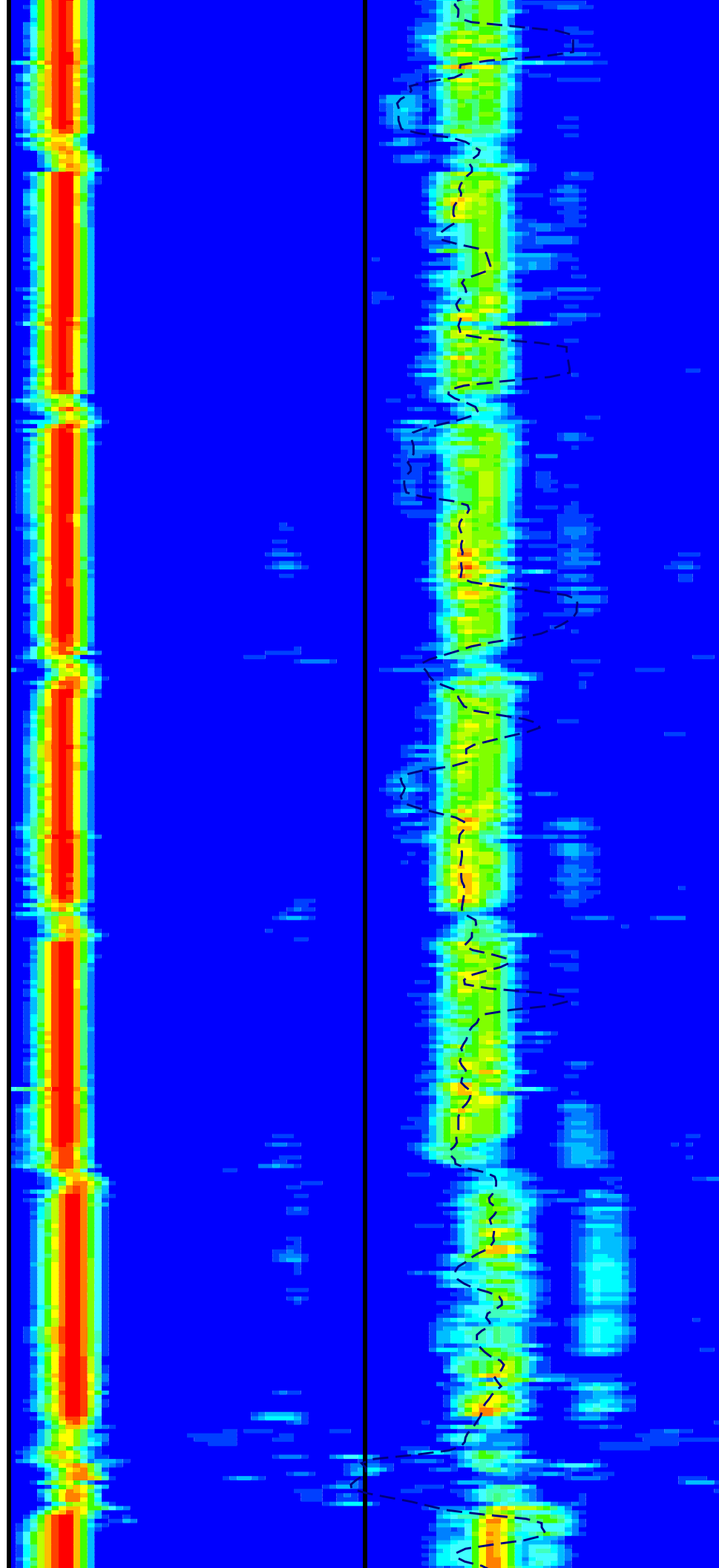
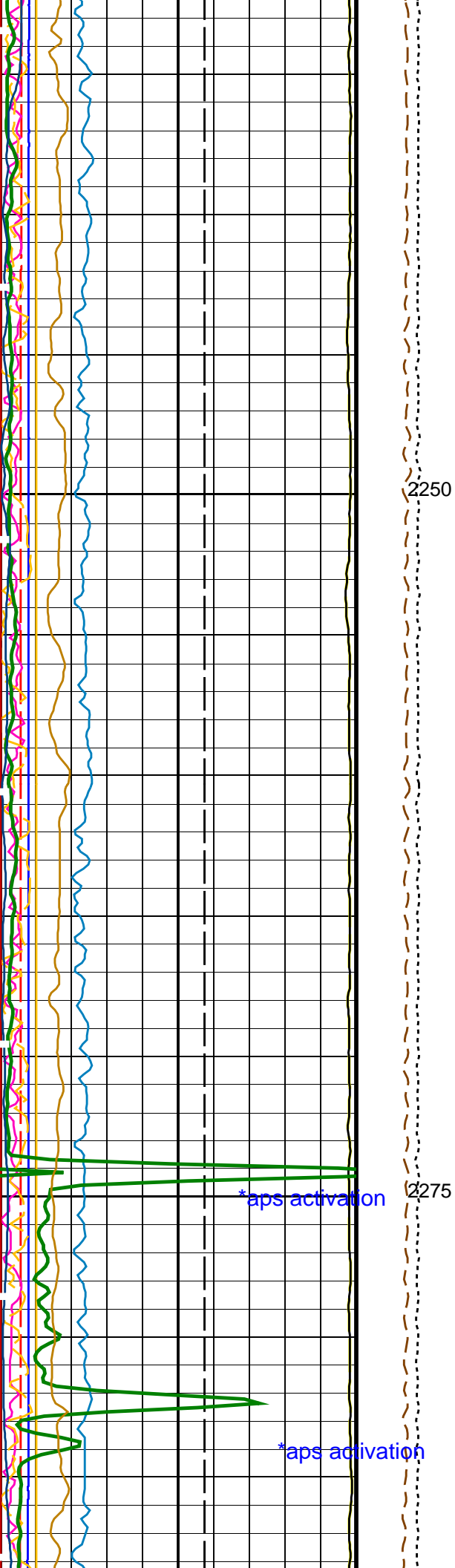
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(----	10

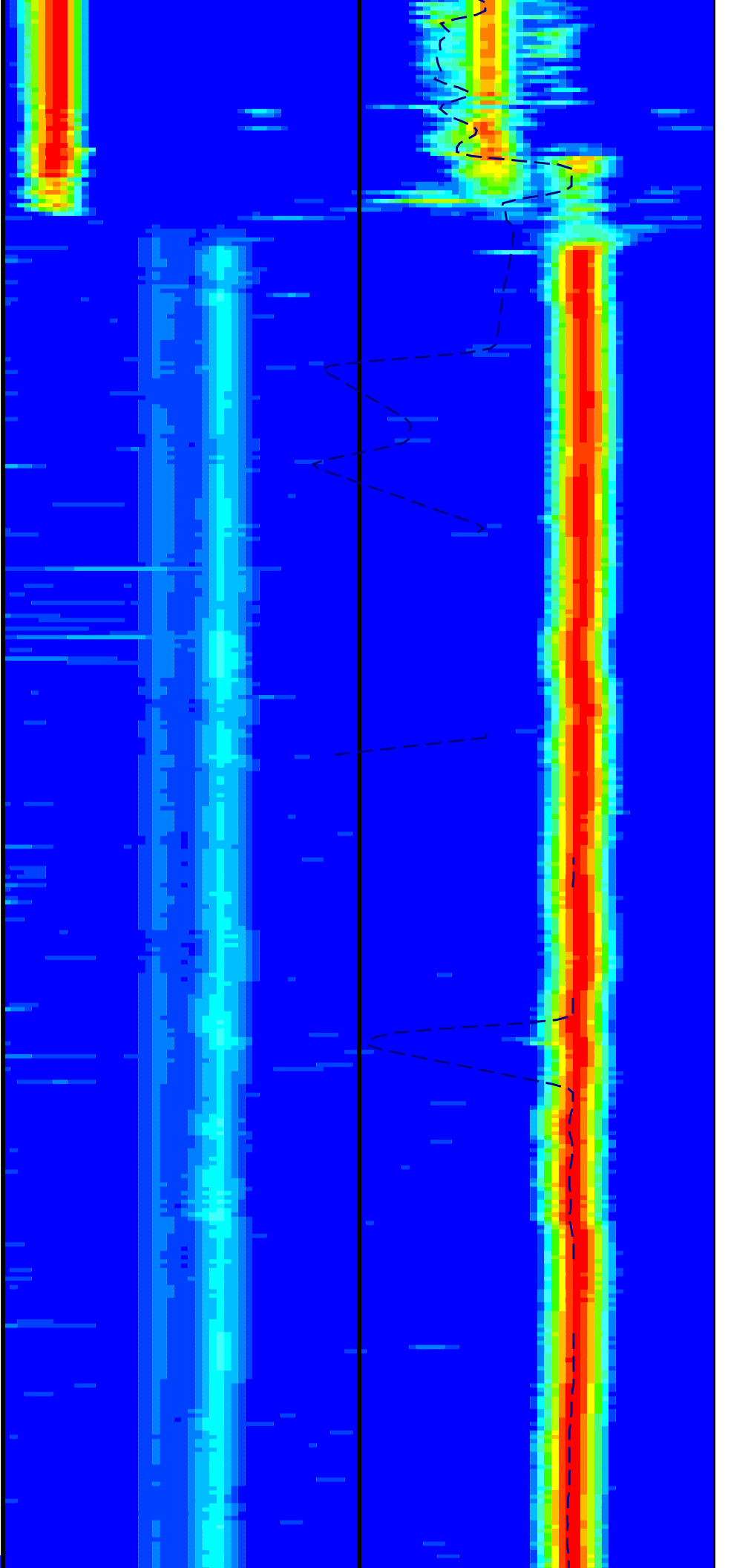
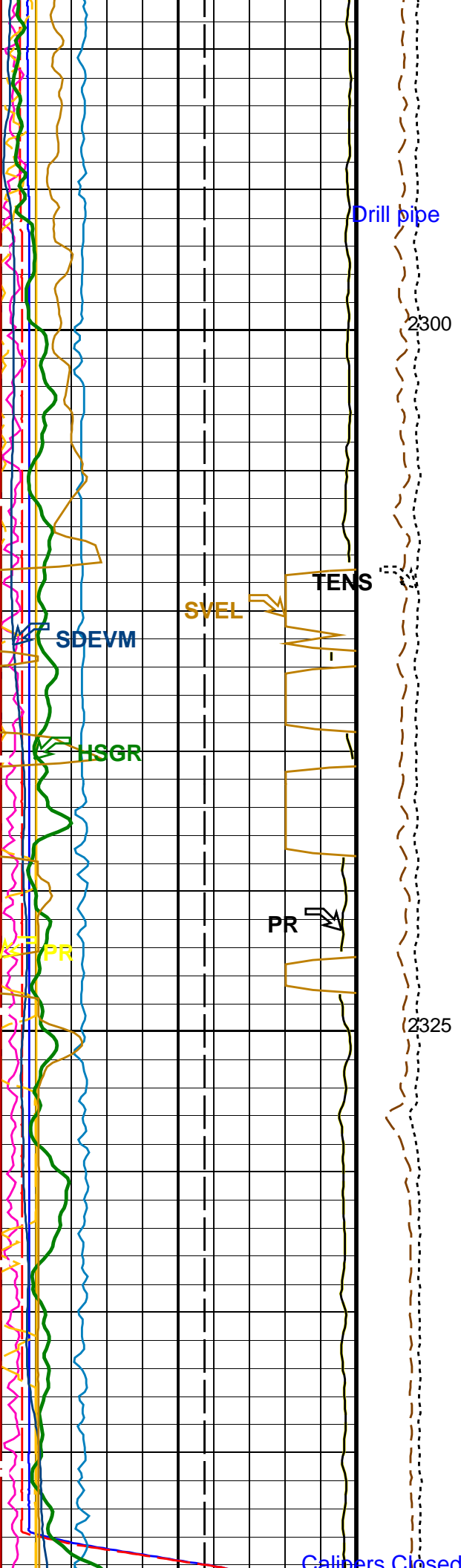
Peak Coherence / RA – P & S Shear (CHRS)		
–1	(-----)	9
Peak Coherence / RA – P & S Comp (CHRP)		
0	(-----)	10
Peak Coherence / TA – Upper Dipole (CHT2)		
–2	(-----)	8
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(-----)	10
Poisson's Ratio (PR)		
0	(-----)	0.5
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Sonde Deviation (SDEVM)		
0	(DEG)	10
Poisson's Ratio (PR)		
0	(-----)	0.5

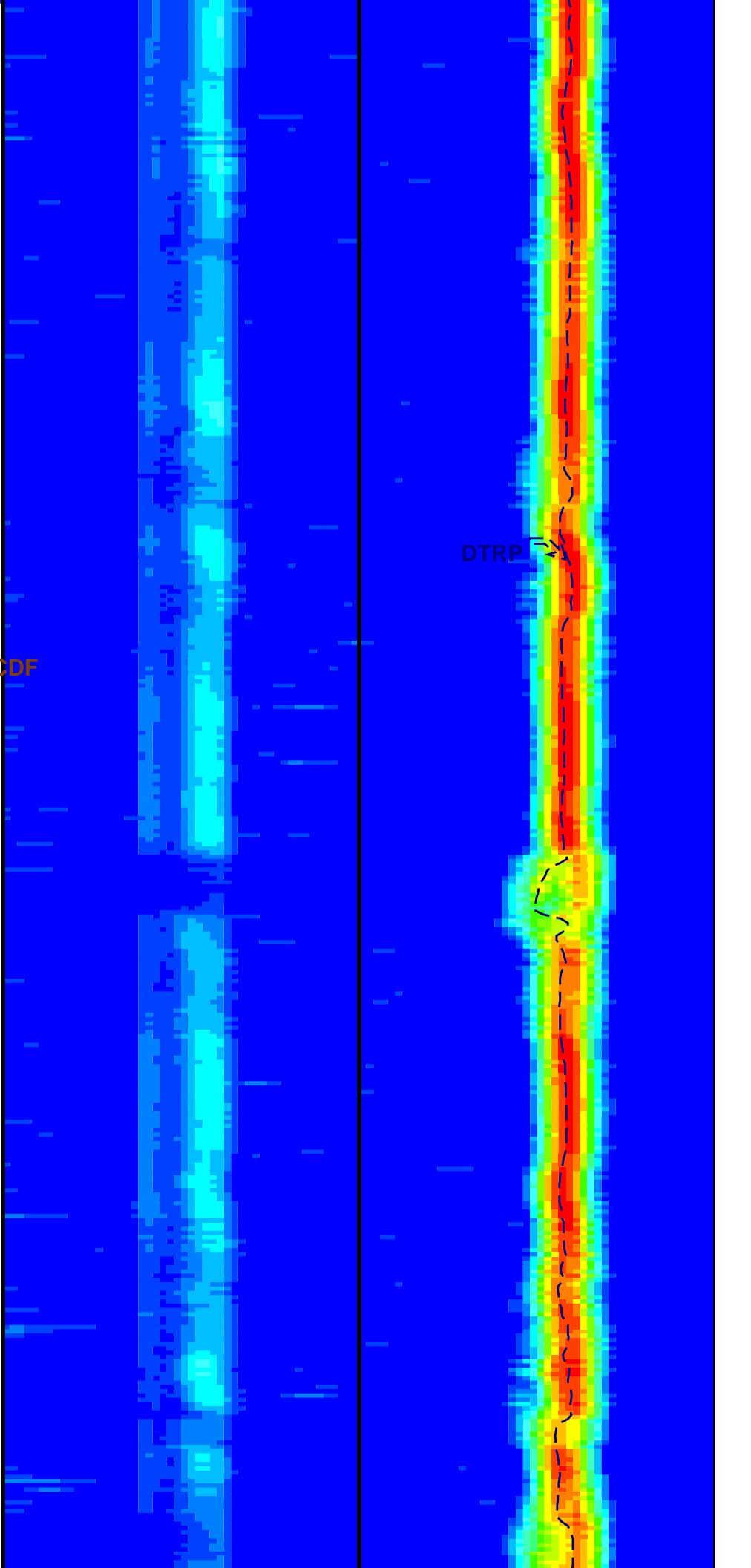
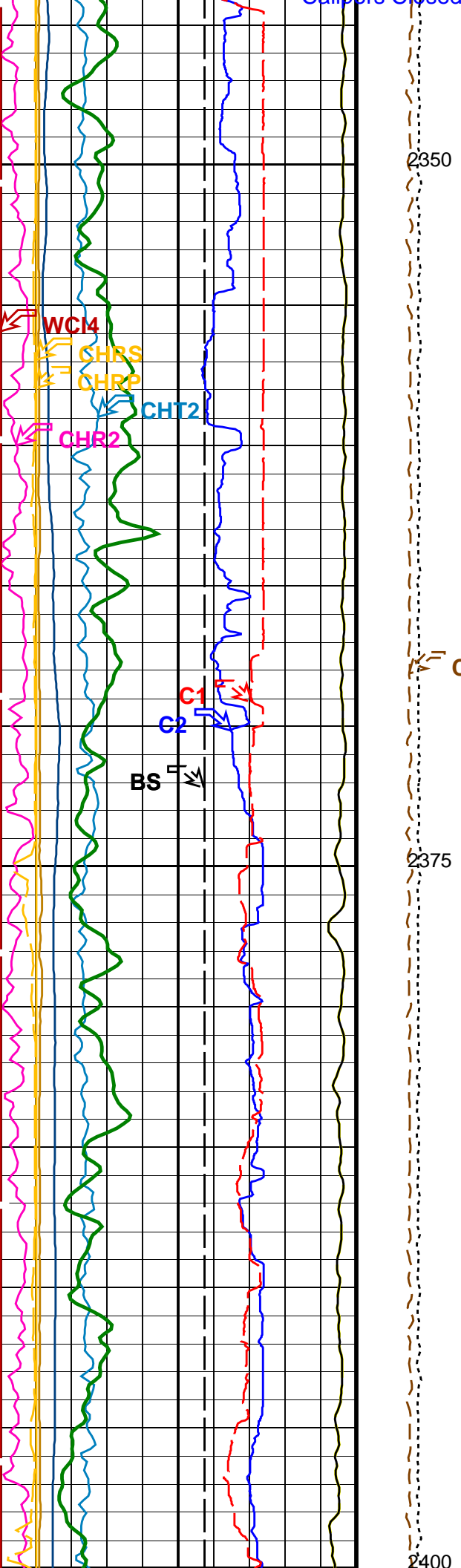
Uplog 1

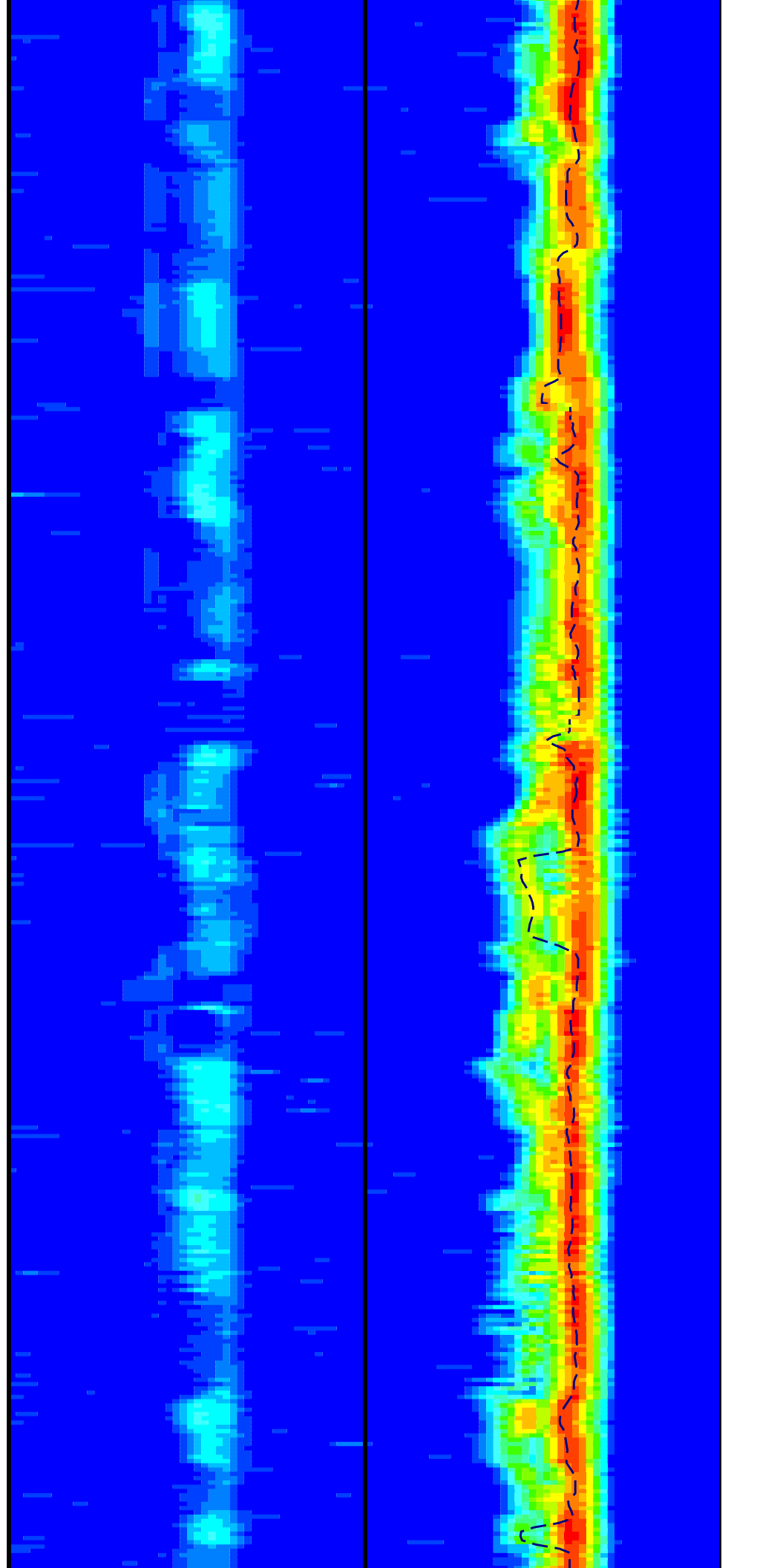
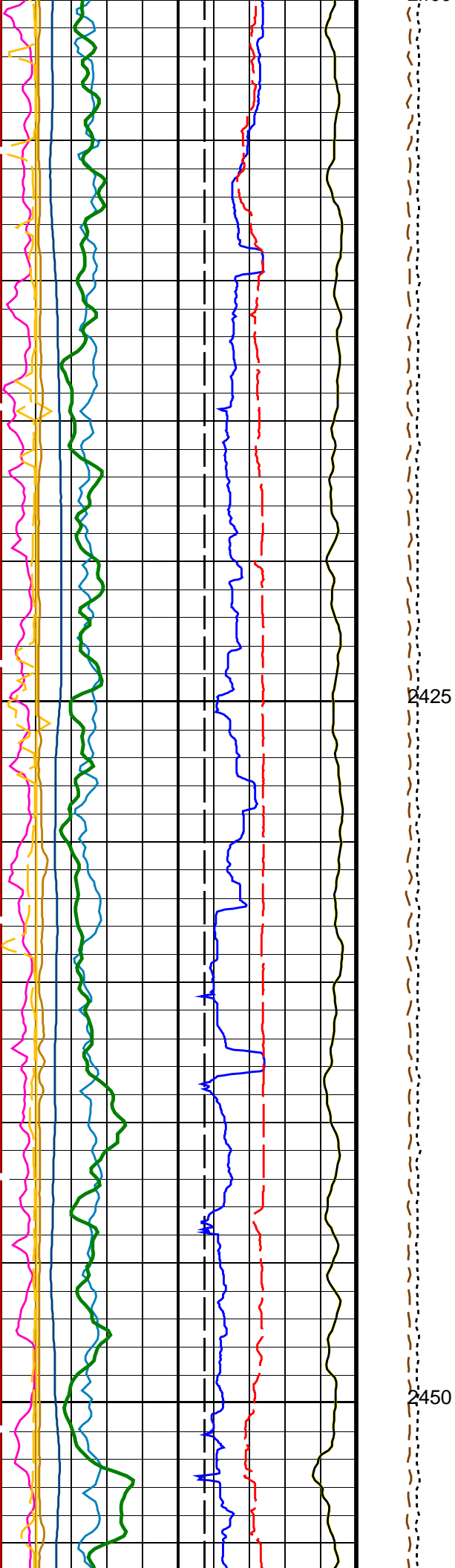
Caliper 1 (C1) (IN)		
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Caliper 2 (C2) (IN)		
0		20
Bit Size (BS) (IN)		
0		20

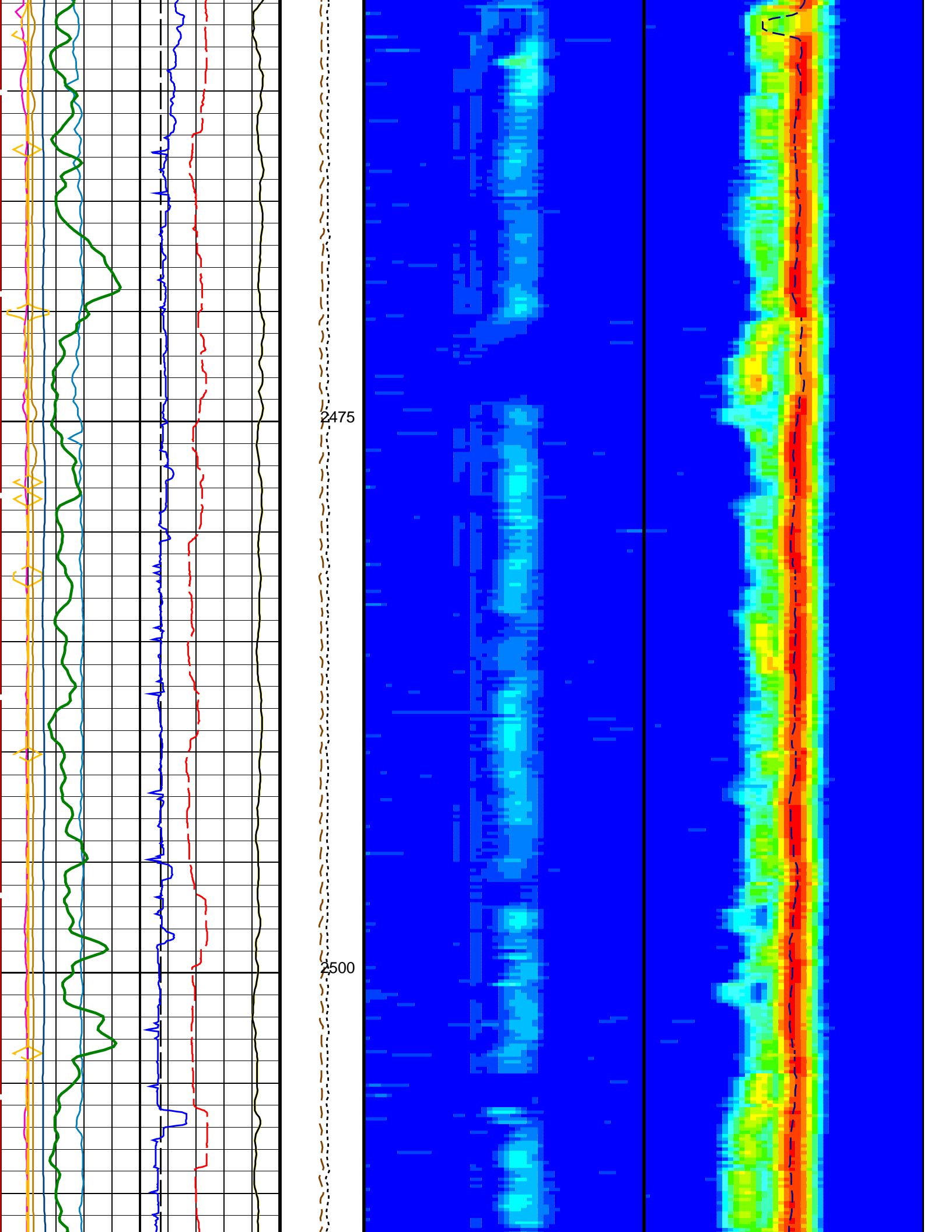


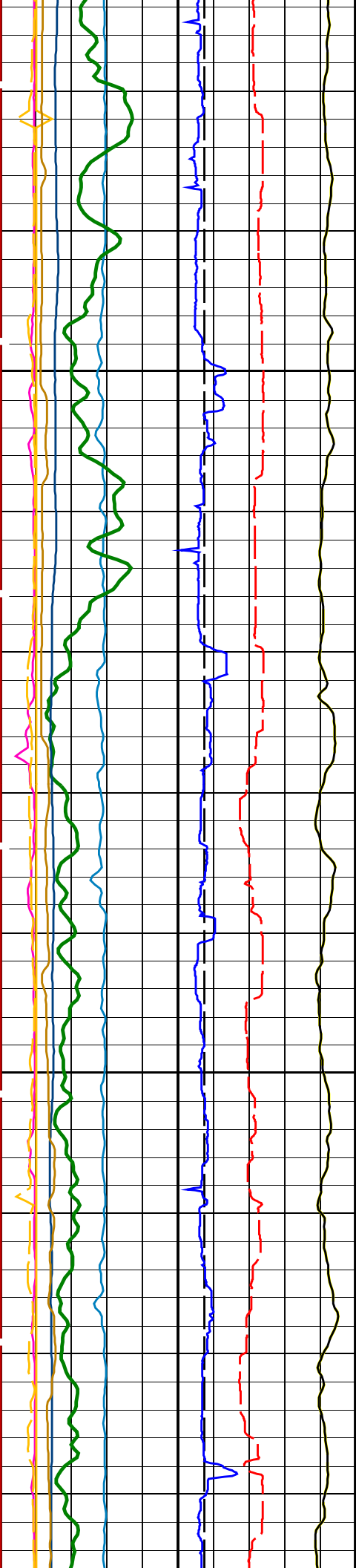






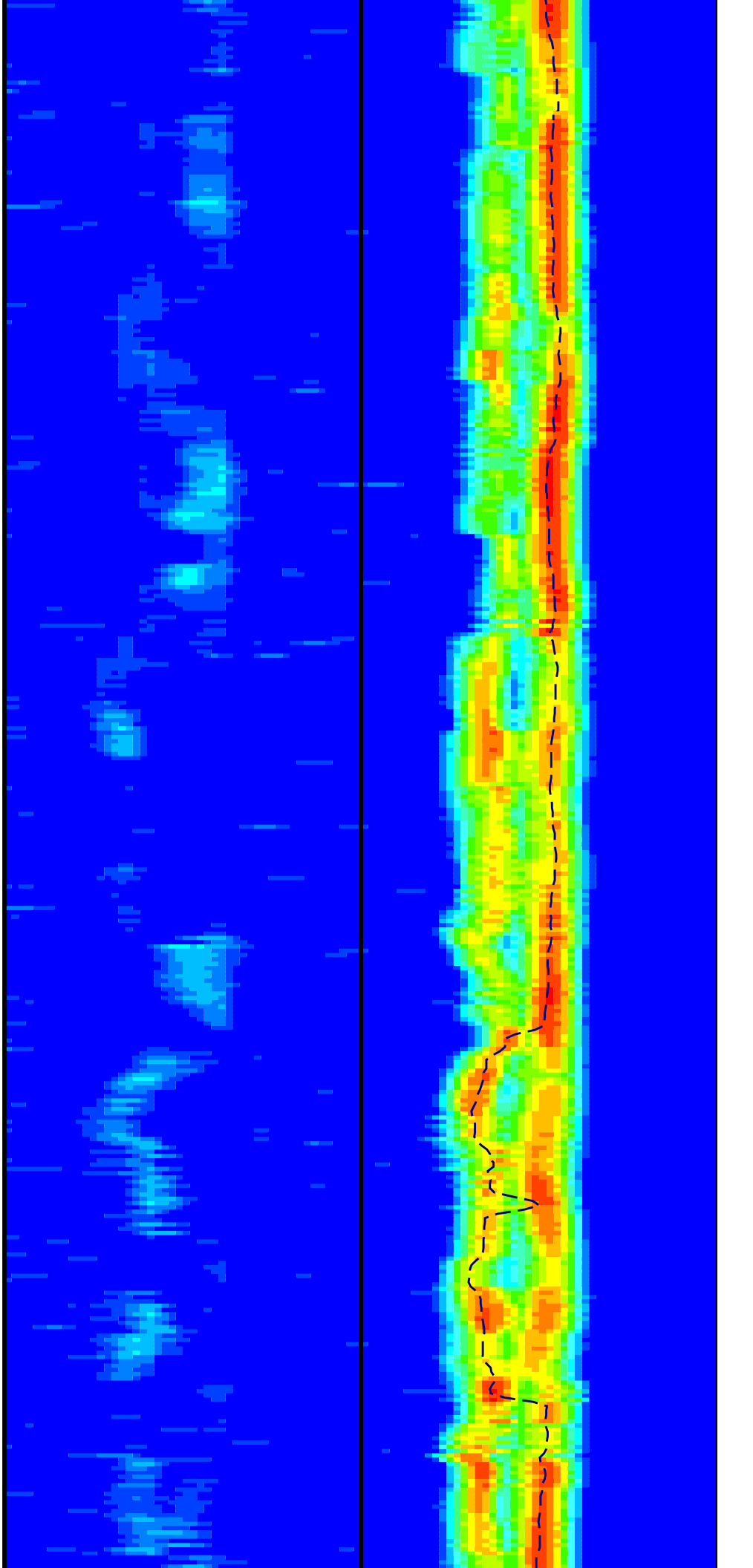


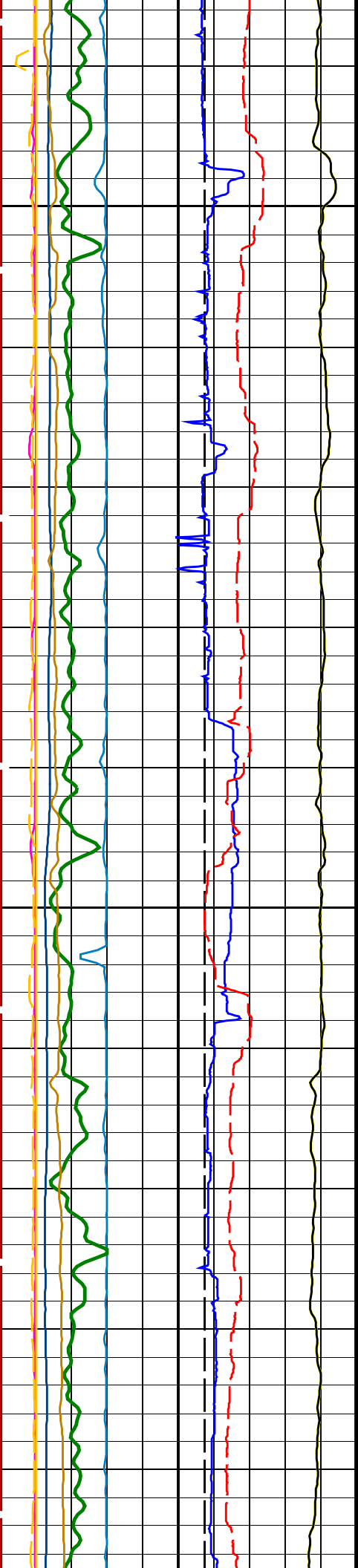




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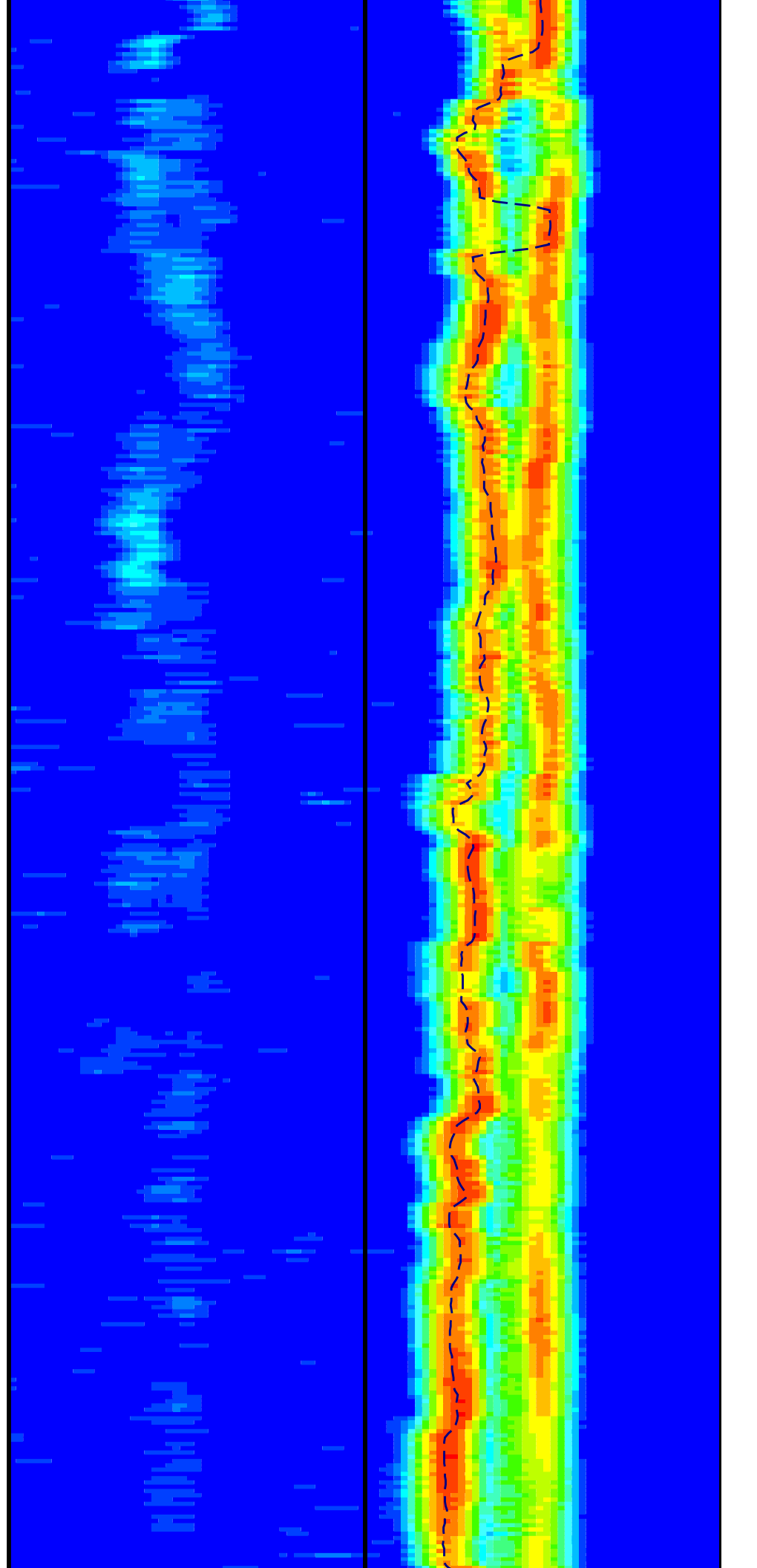
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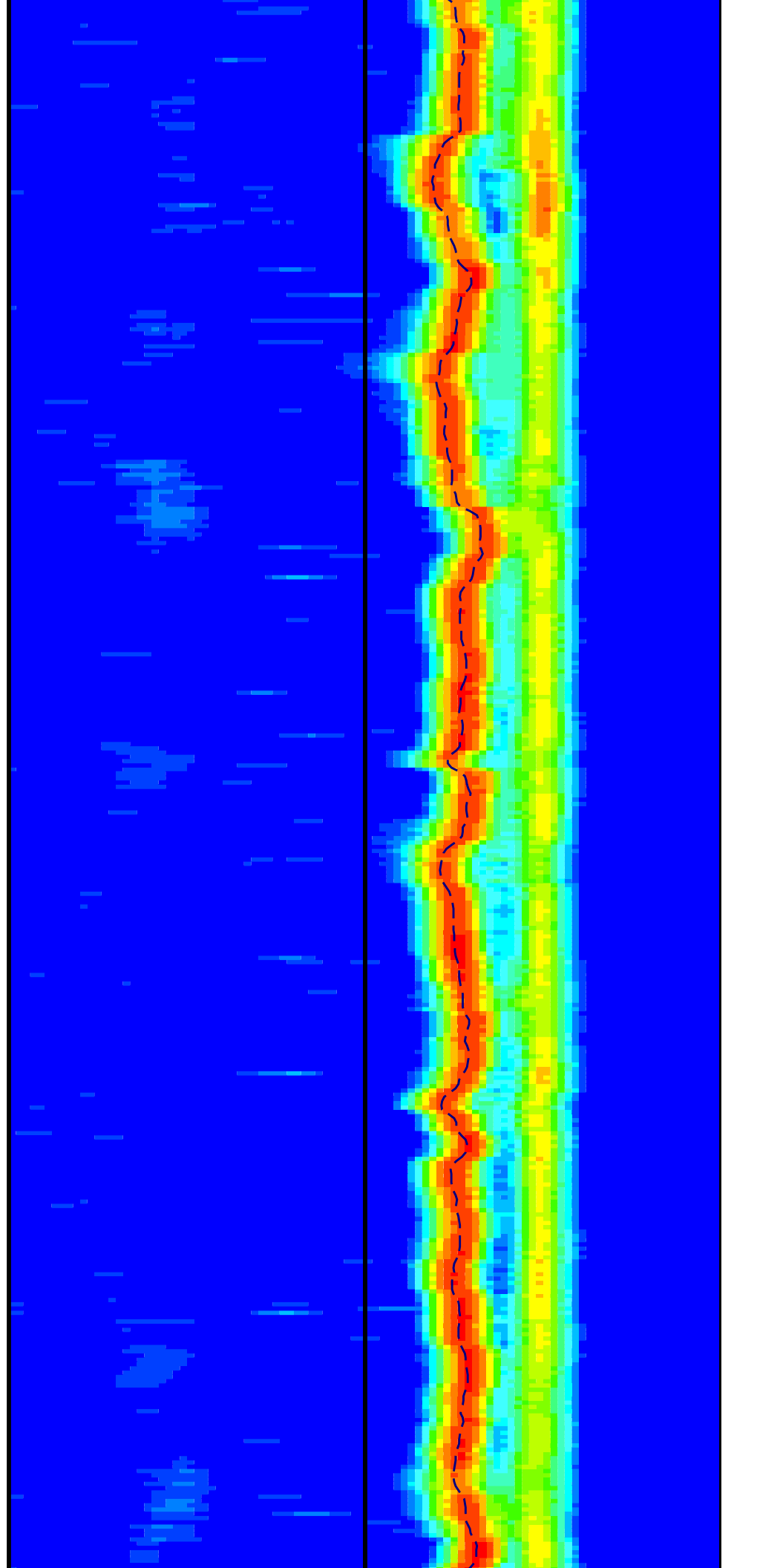
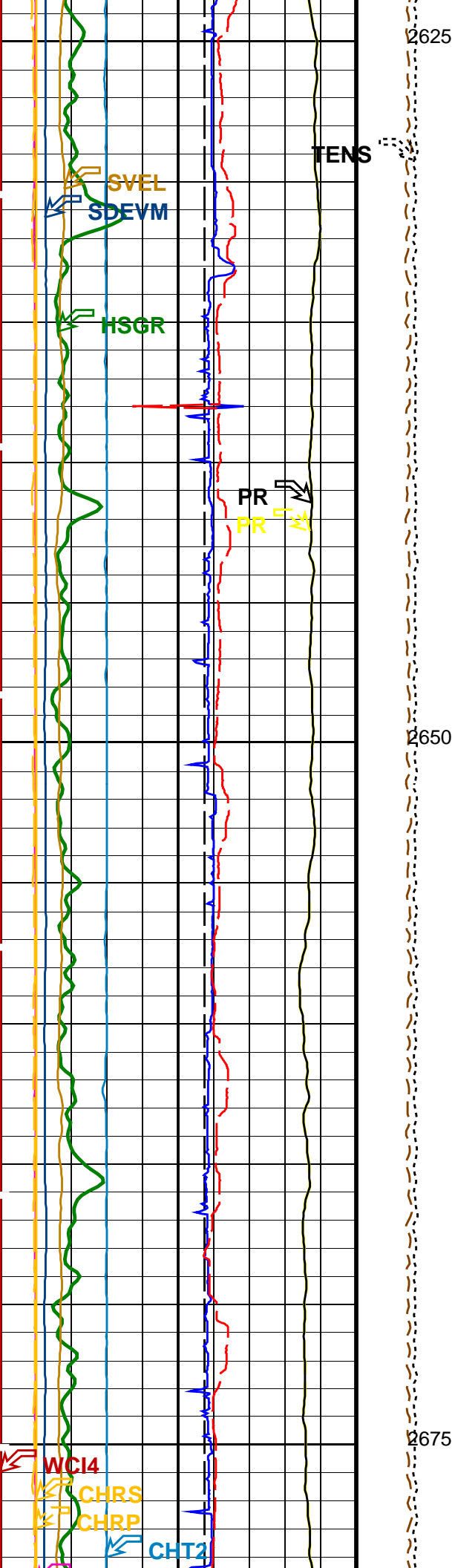


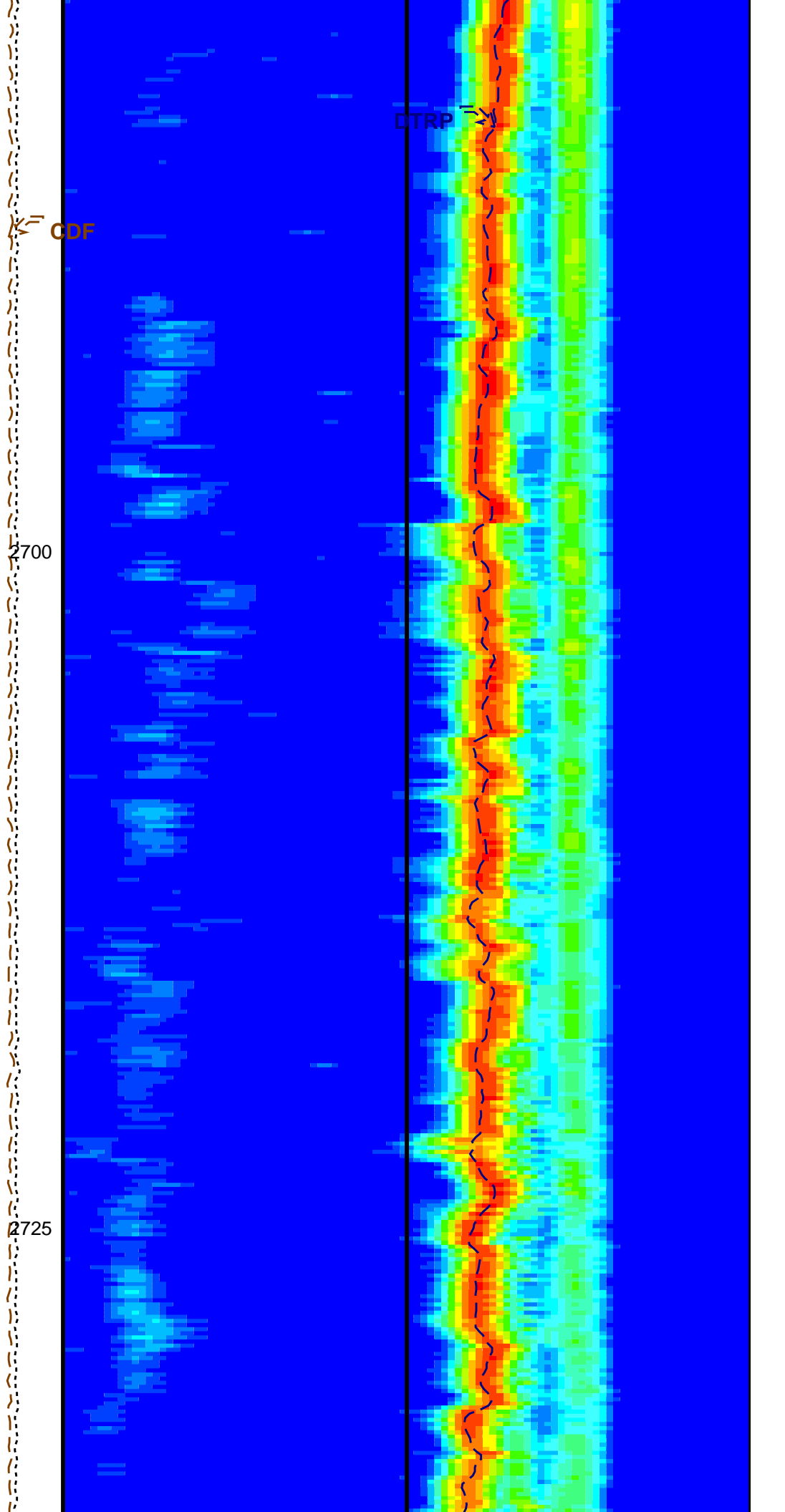
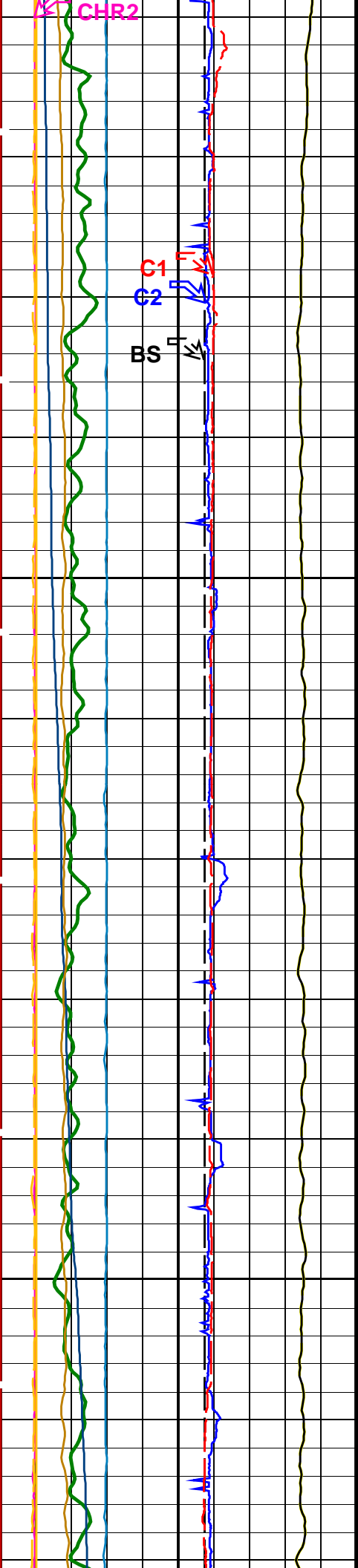


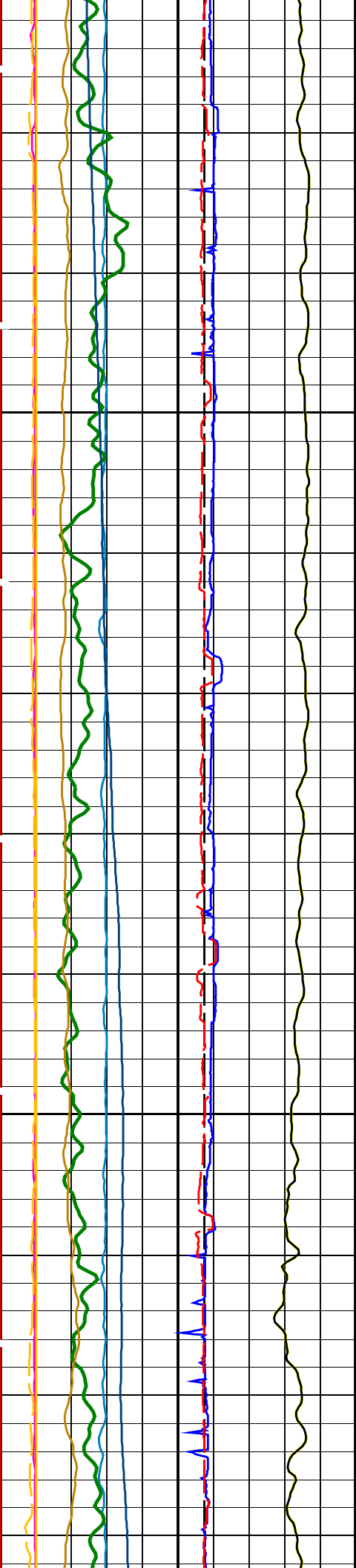
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2600



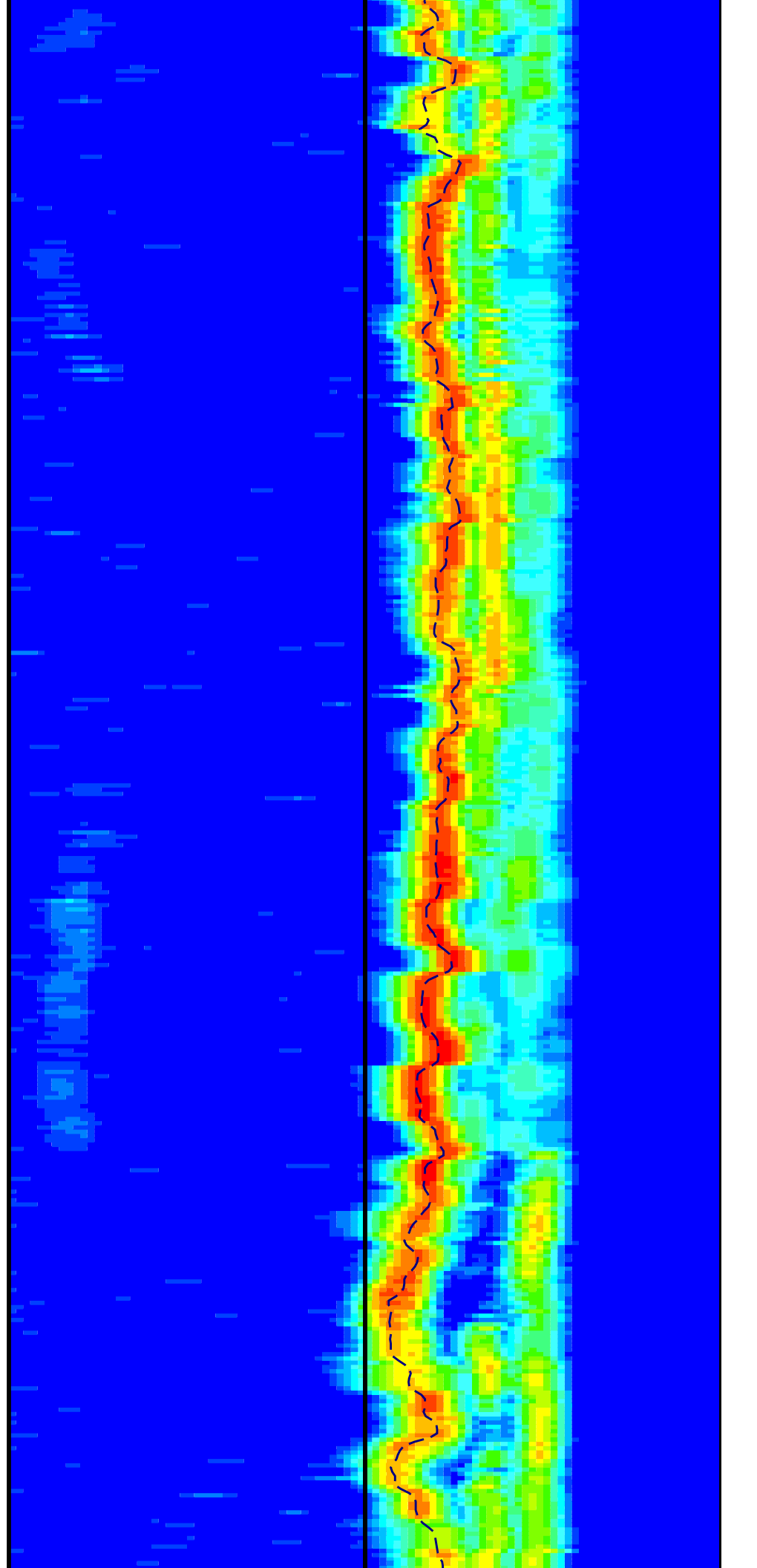


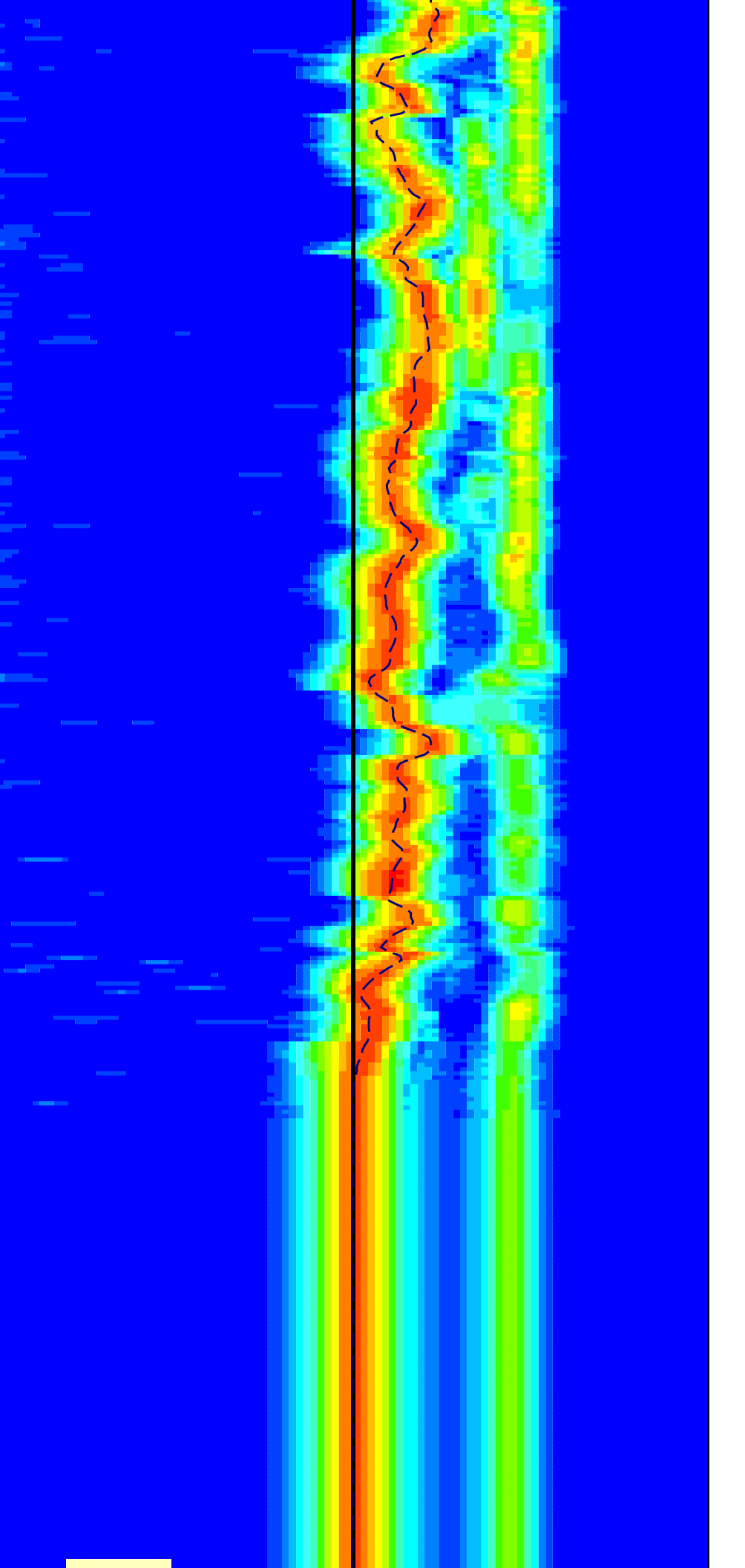
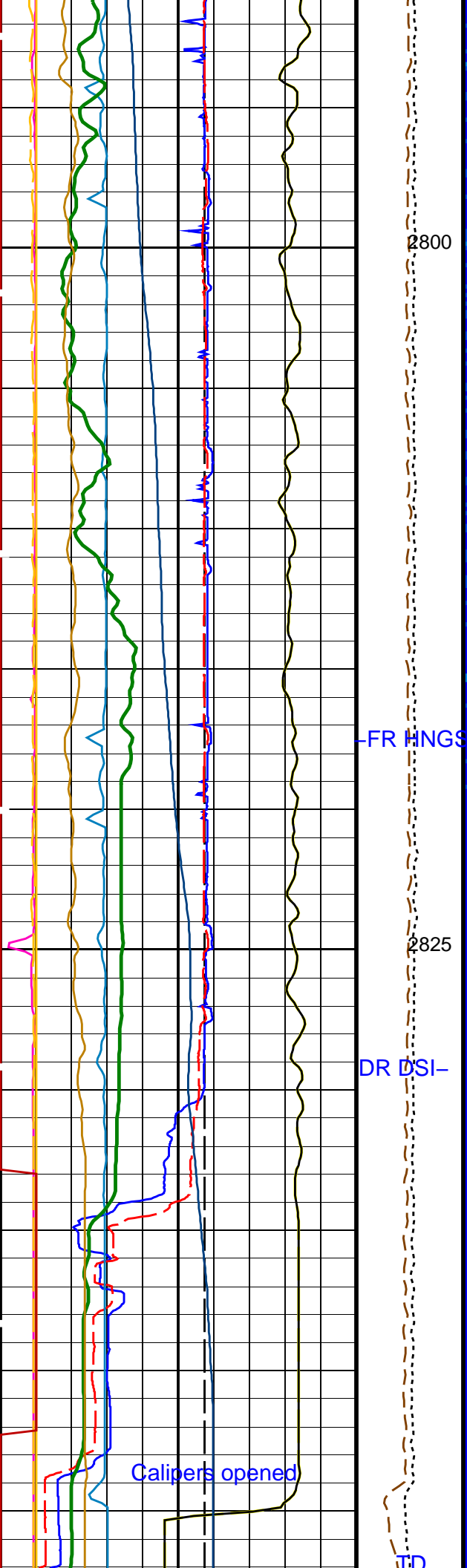


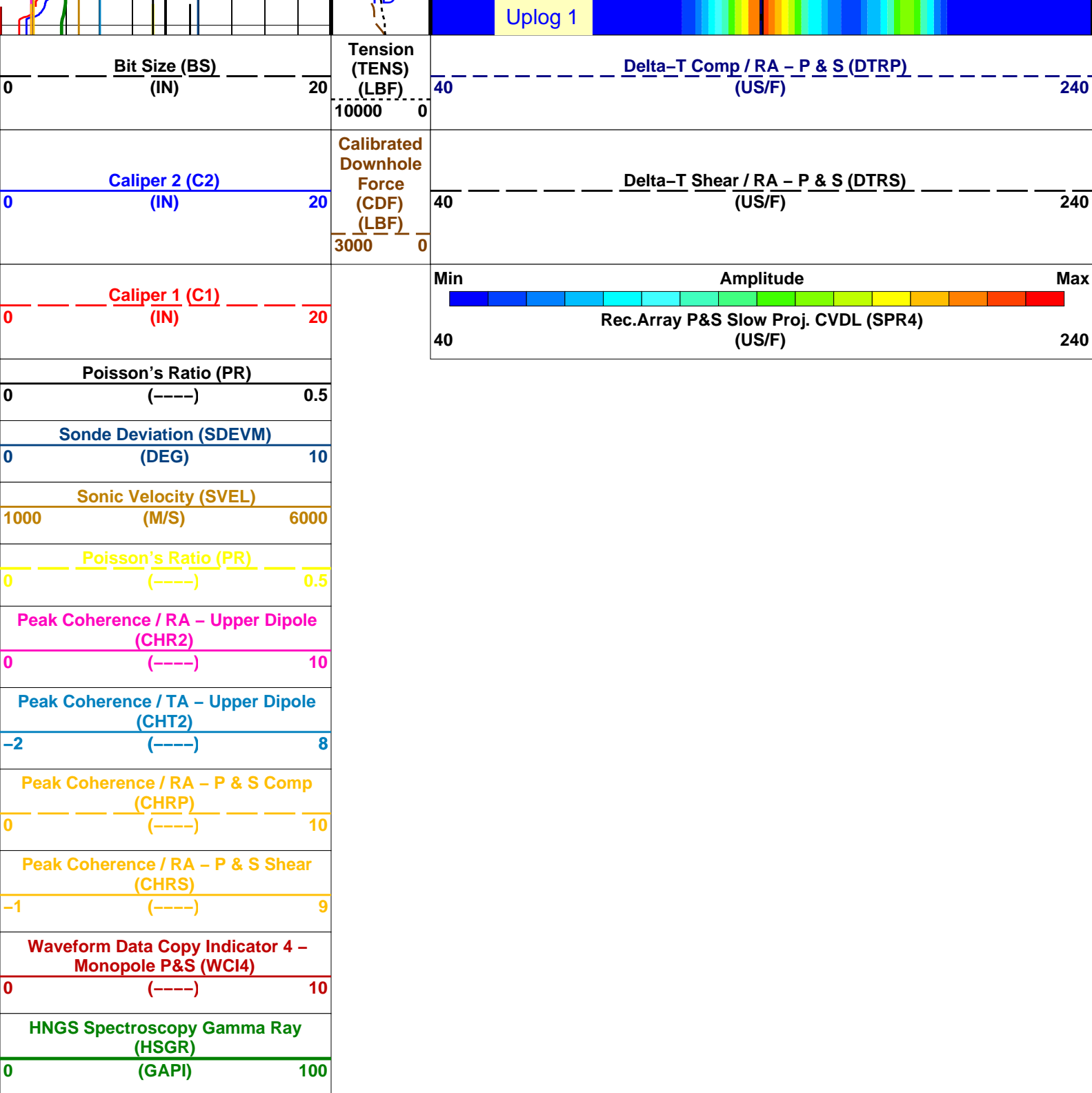


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DSHL	Label Slowness Lower Limit – Dipole Shear	300	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1400	US/F
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	212	US/F
DTSS	Shear Delta-T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character – Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
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	190	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	195	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	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
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
HNGBS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGBS Detector 1 Barite Constant	1	
BAR2	HNGBS Detector 2 Barite Constant	1	
BHK	HNGBS 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	HNGBS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGBS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGBS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGBS Borehole Potassium Running Average	–0.00173657	
HALF	HNGBS Alpha Filter Length	60	IN
HCRB	HNGBS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGBS Processing Enable	YES	
S1BI	HNGBS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGBS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGBS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGBS Detector 1 Variable Barite Factor Running Average	1.01718	
VBA2	HNGBS Detector 2 Variable Barite Factor Running Average	1.03527	
System and Miscellaneous			
BS	Bit Size	11.438	IN

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	DTC-H	19C0-187

Output DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:40	PRODUCER	04-Aug-2021 14:11
BACKUP	FMS_DSI_NGS_025LUP	FN:41	PRODUCER	04-Aug-2021 14:11

Output DLIS Files

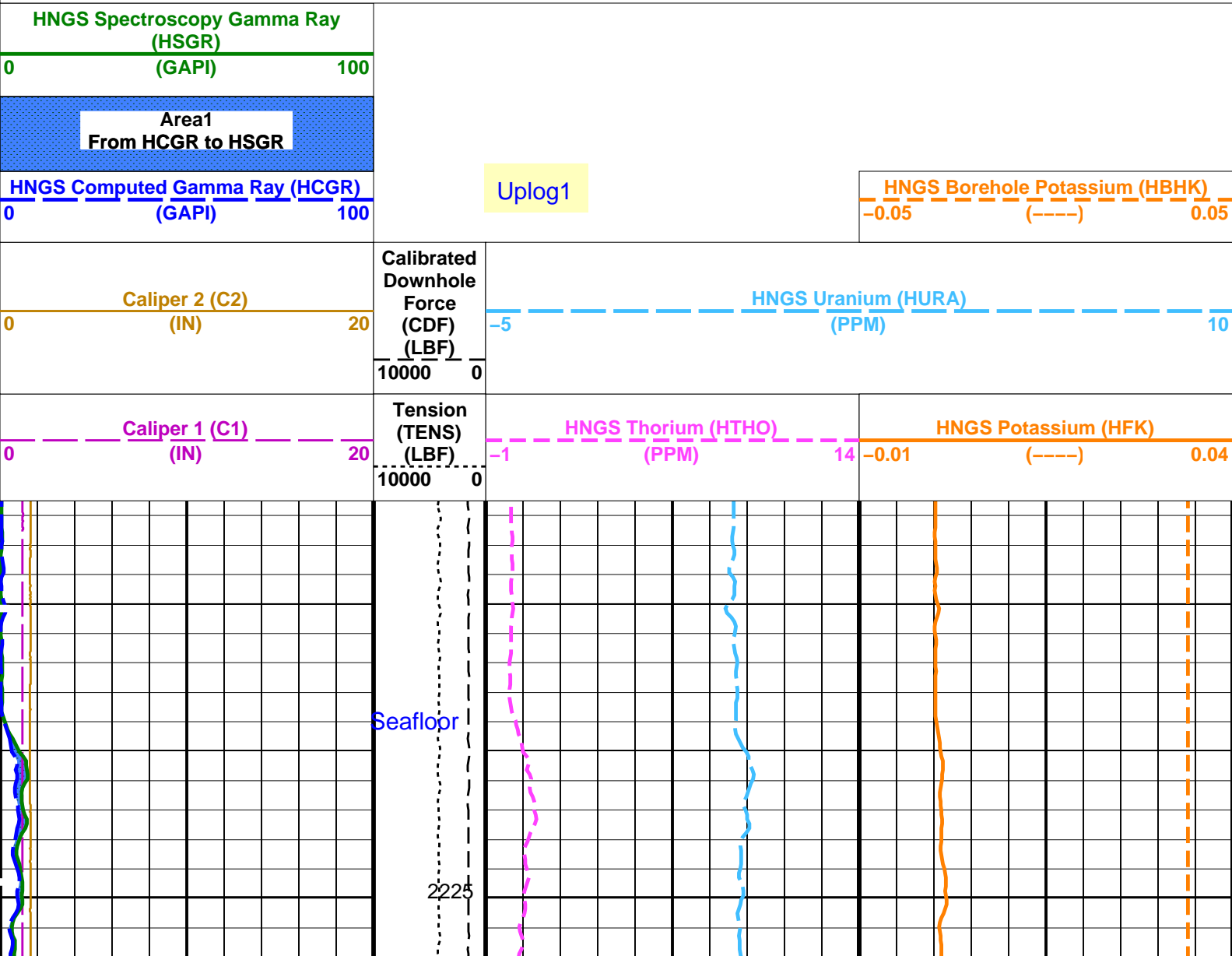
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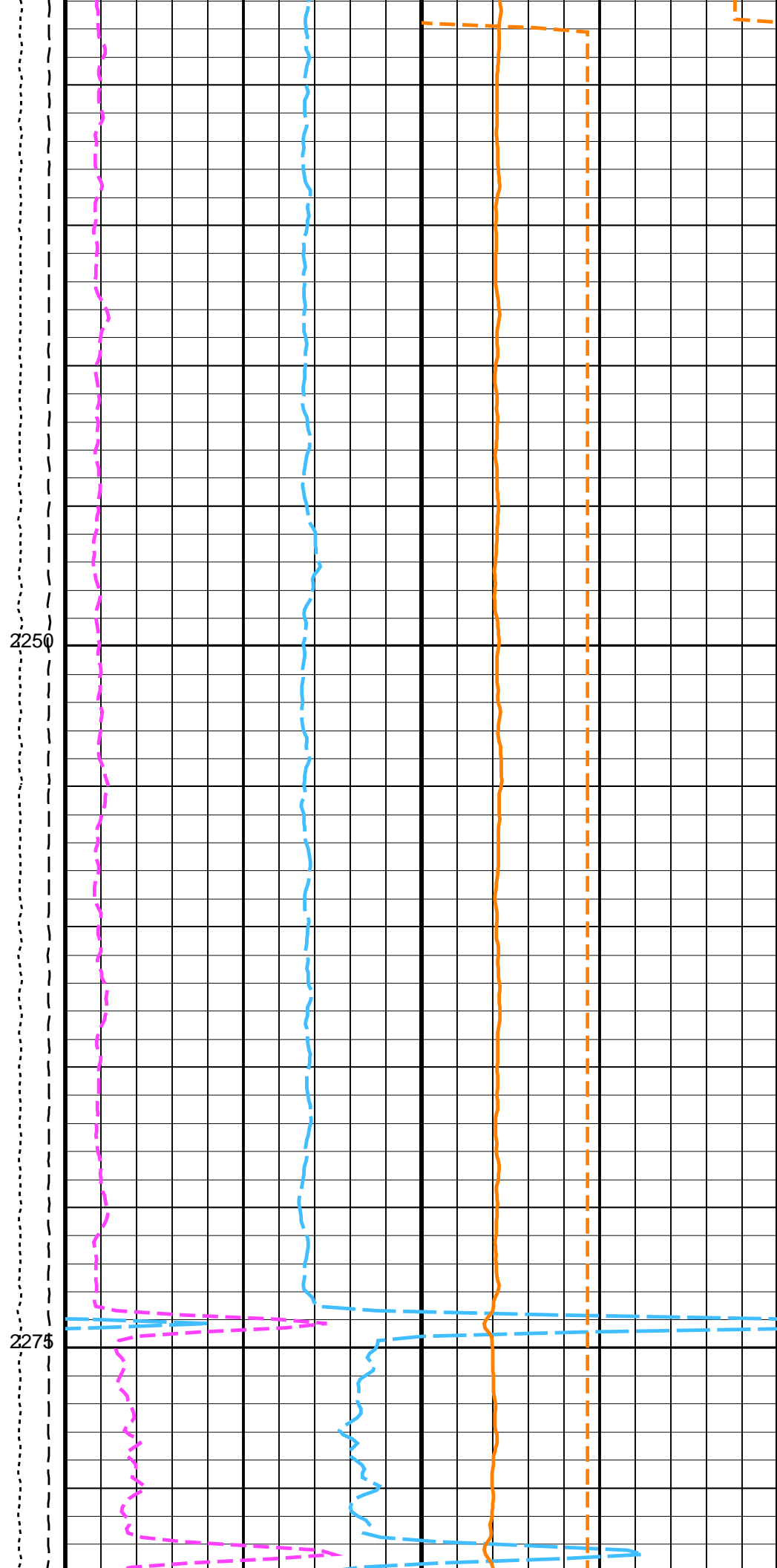
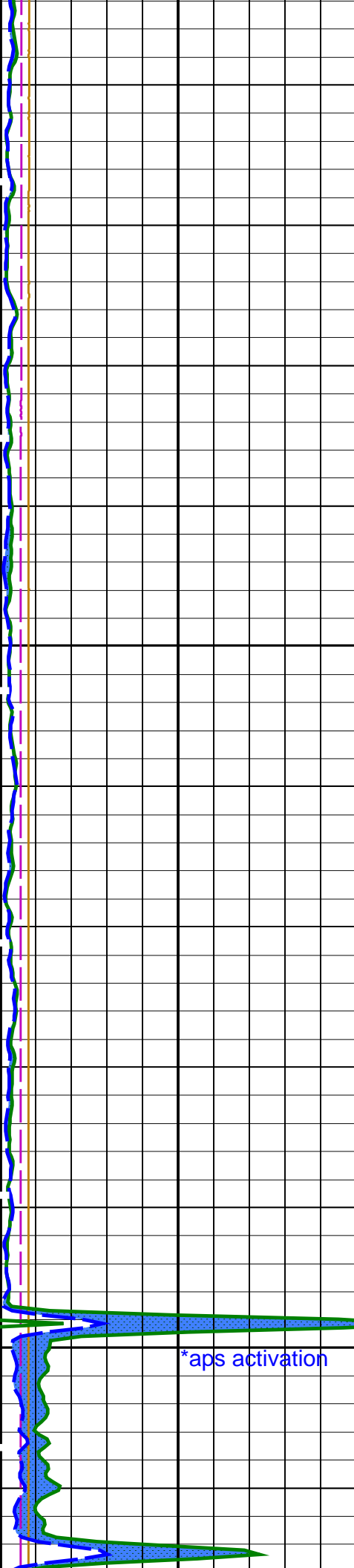
OP System Version: 19C0-187

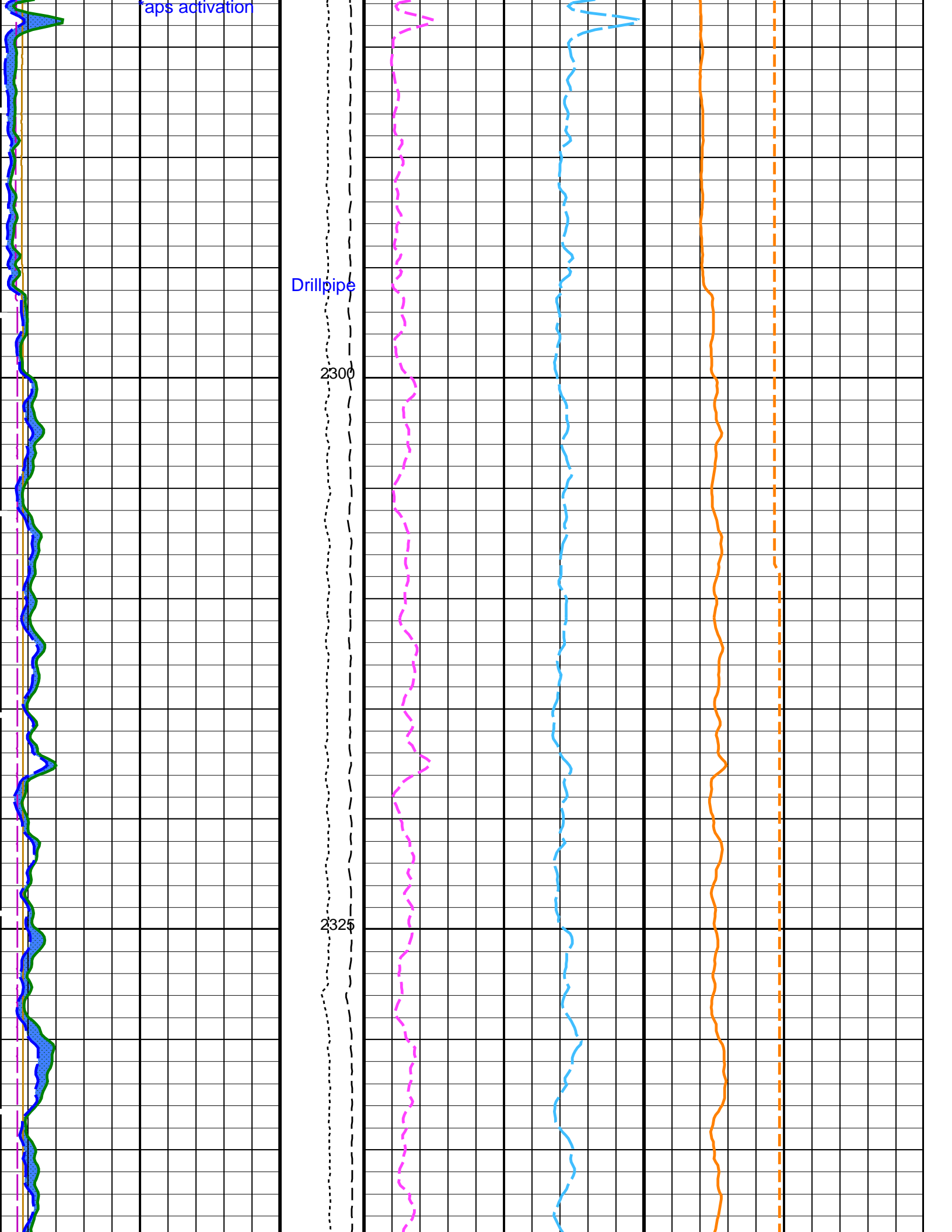
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

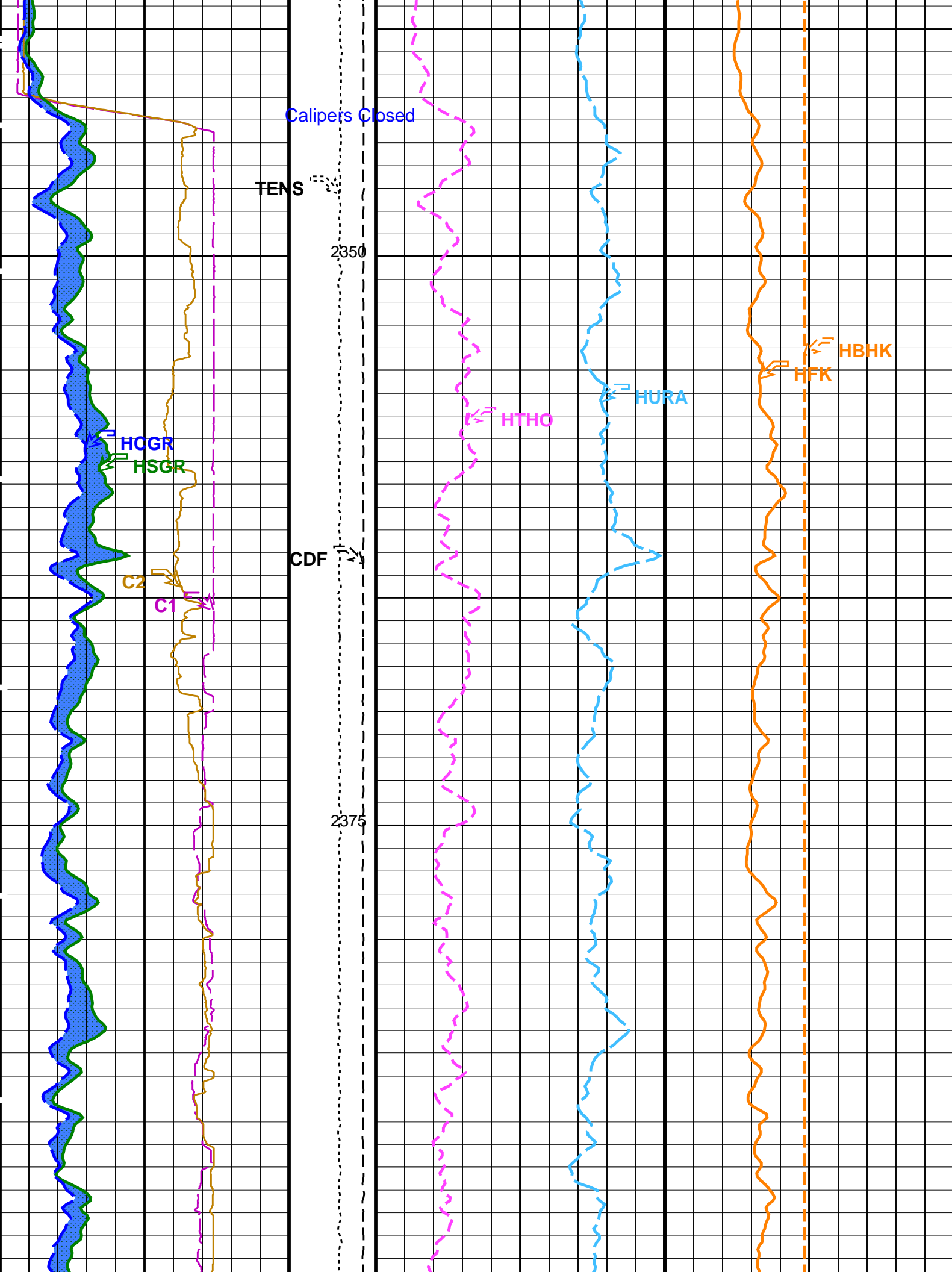
PIP SUMMARY

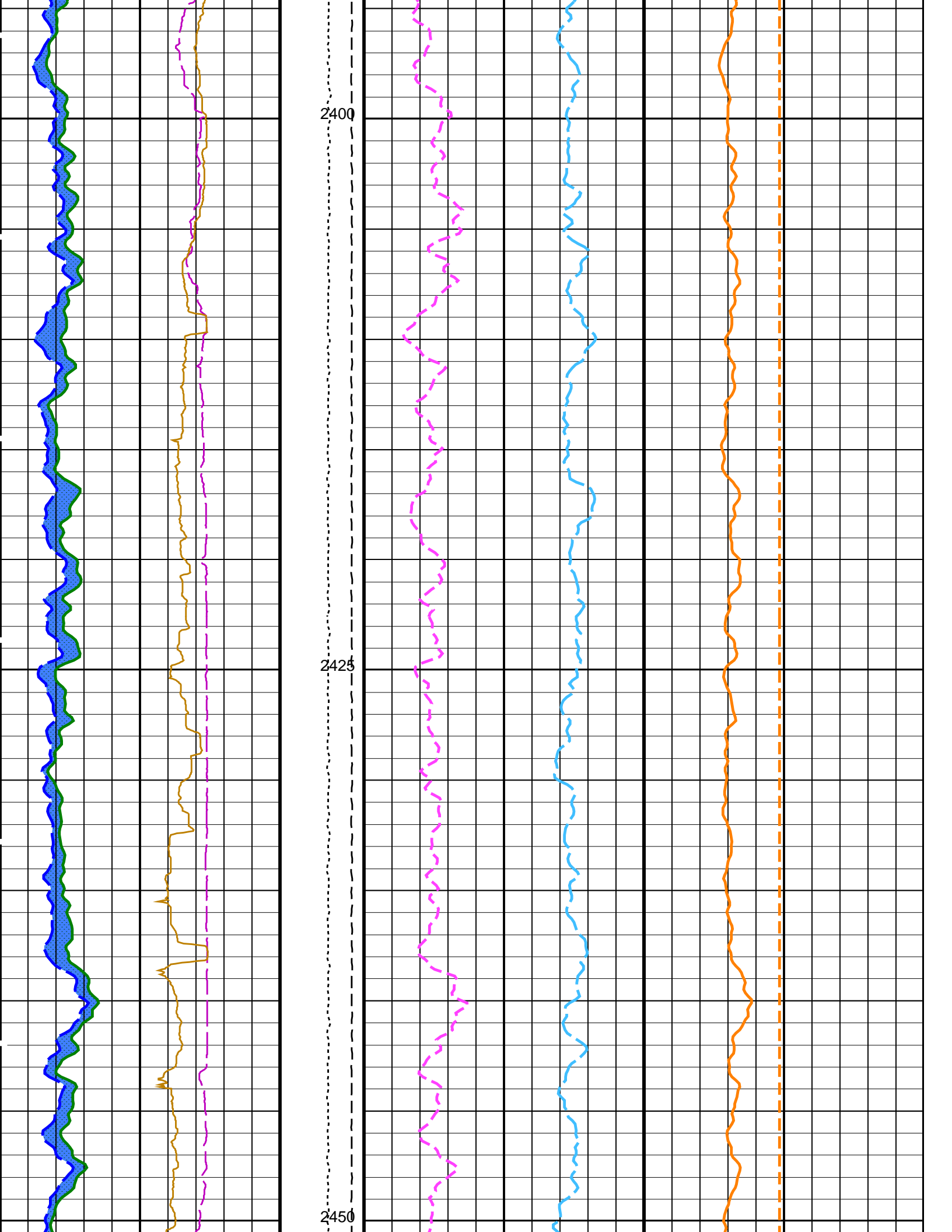
Time Mark Every 60 S

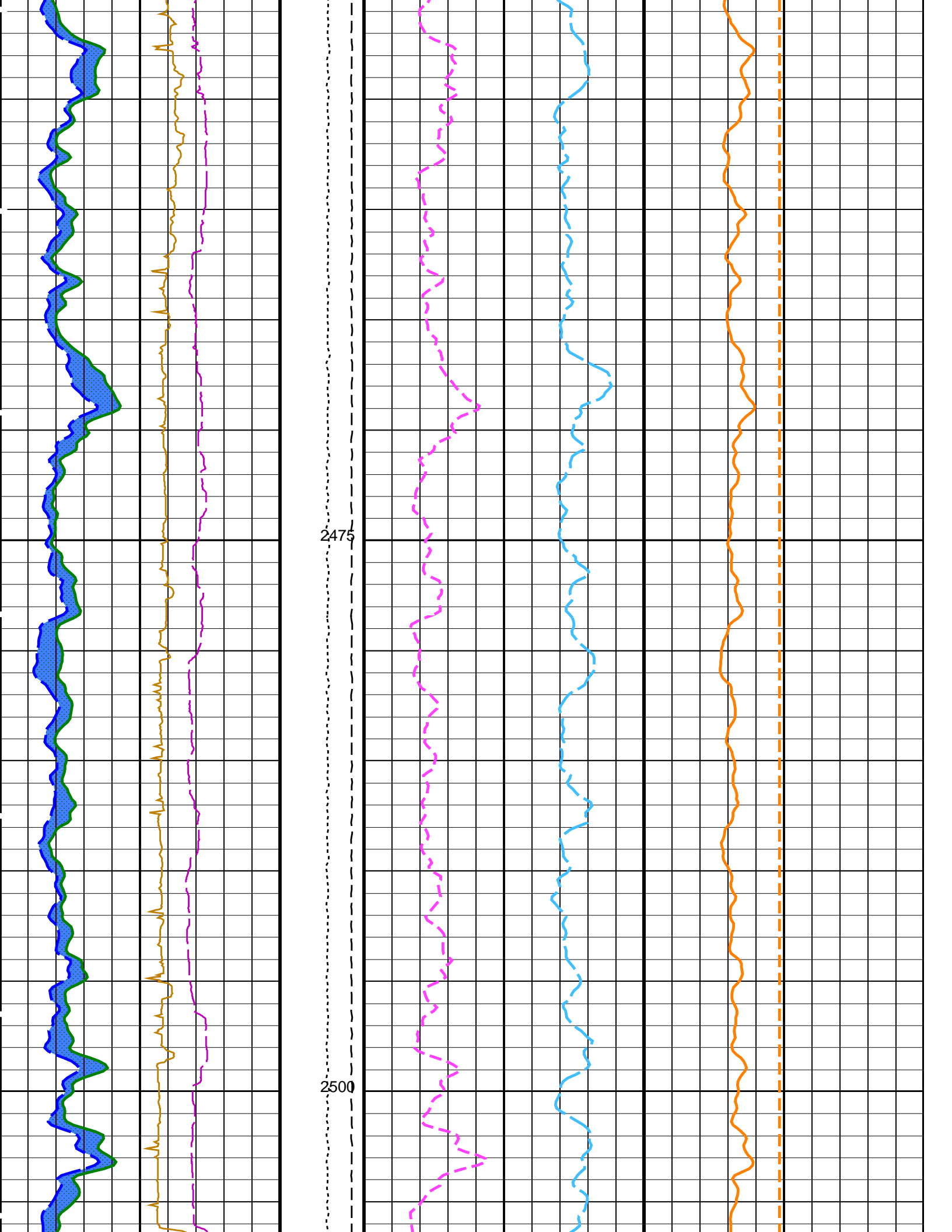


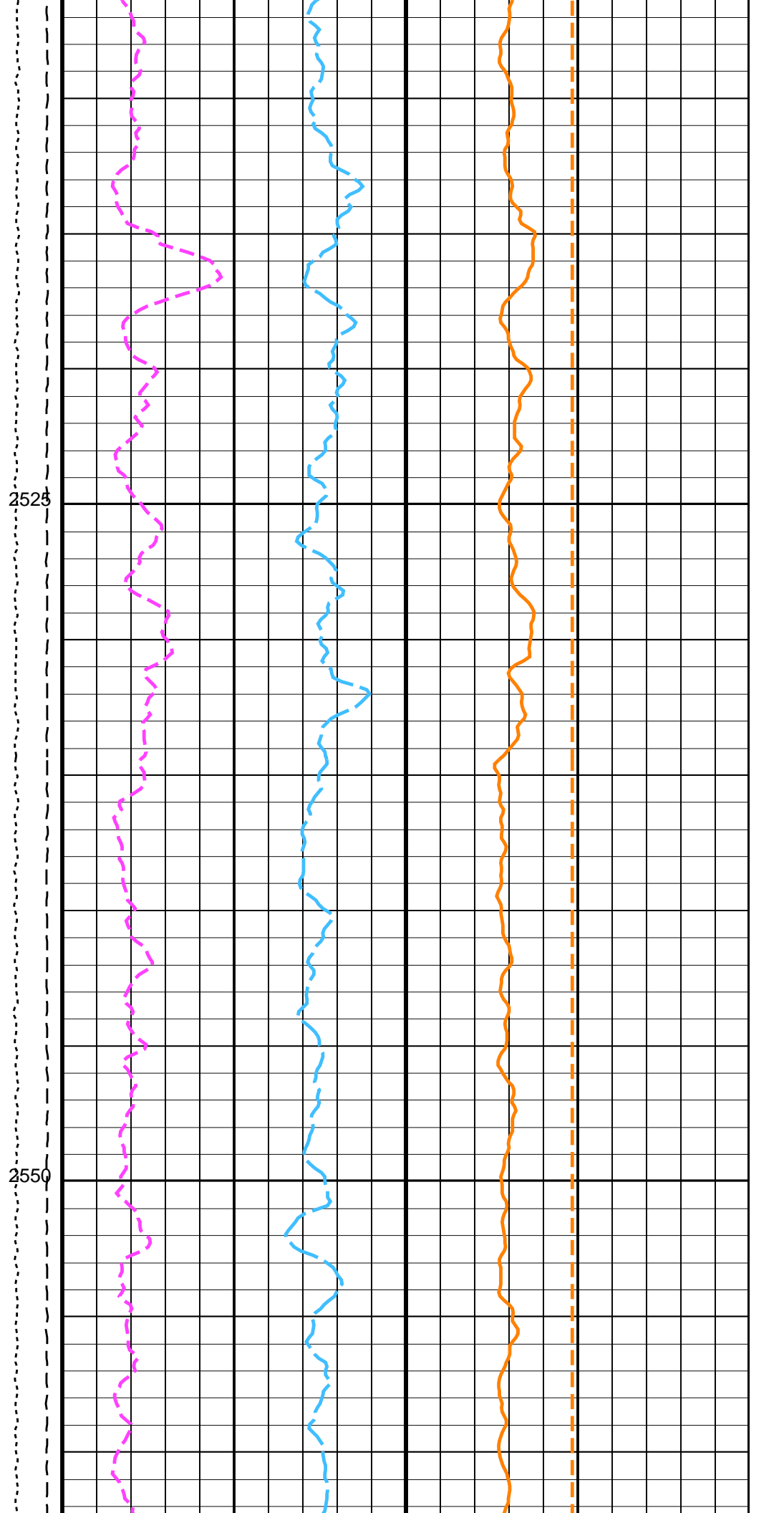
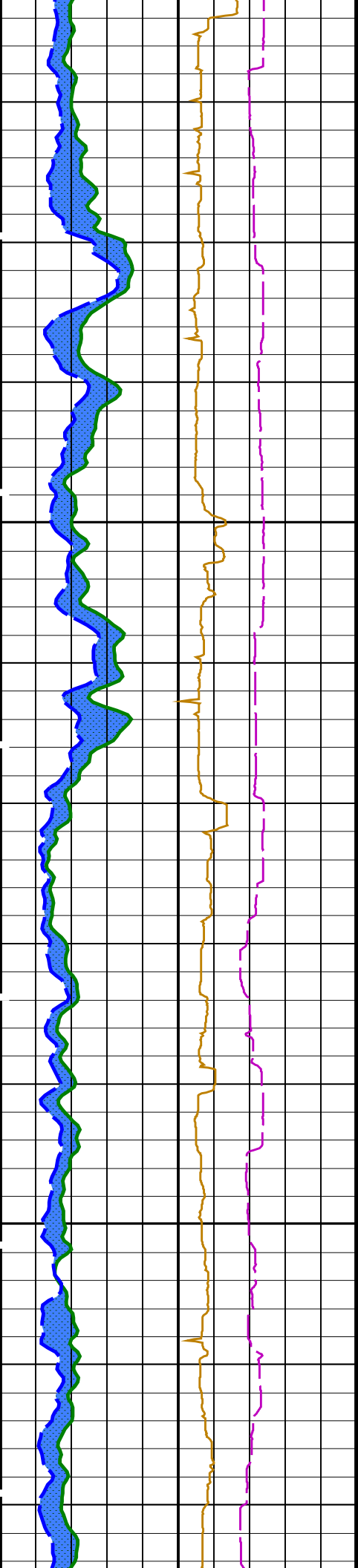


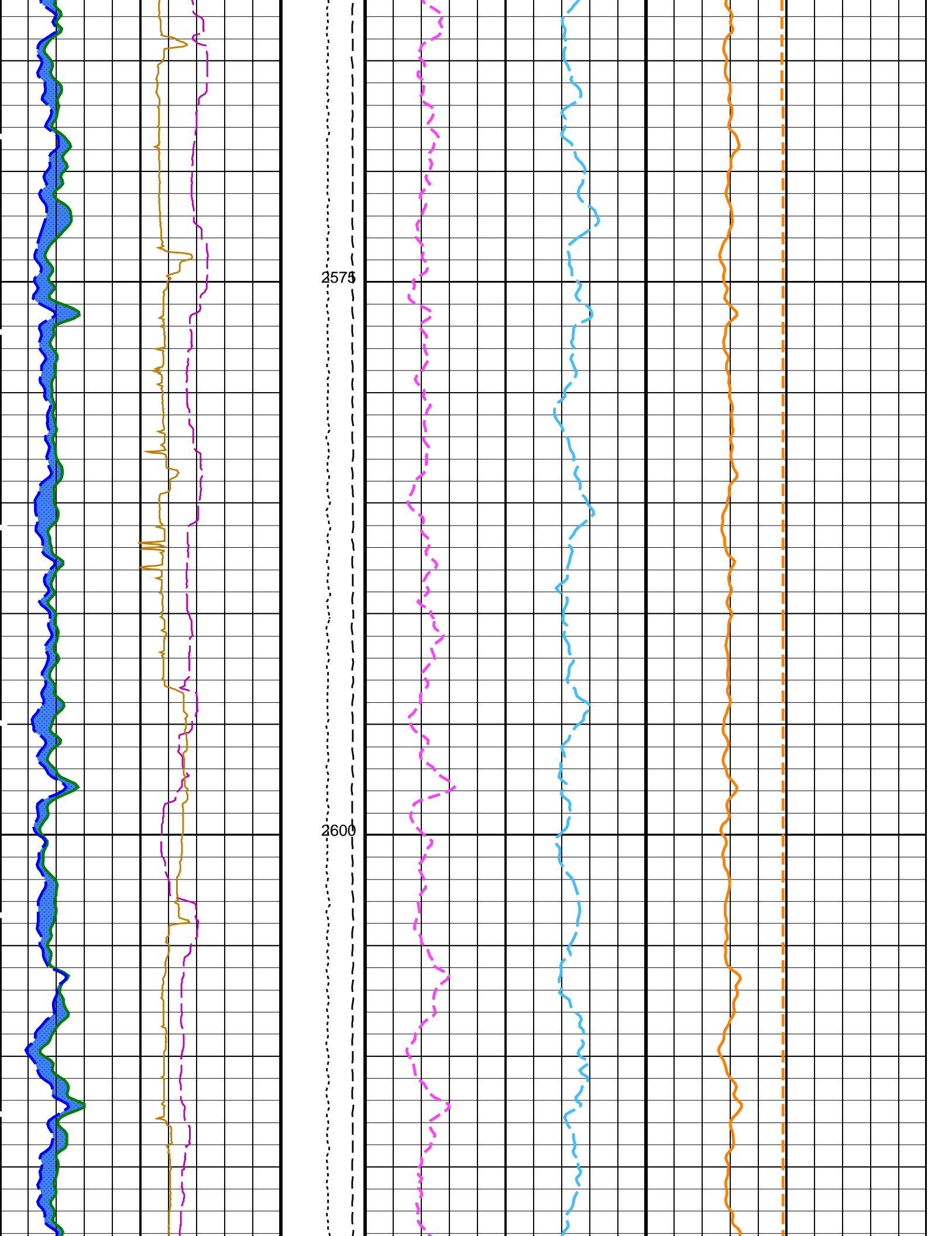


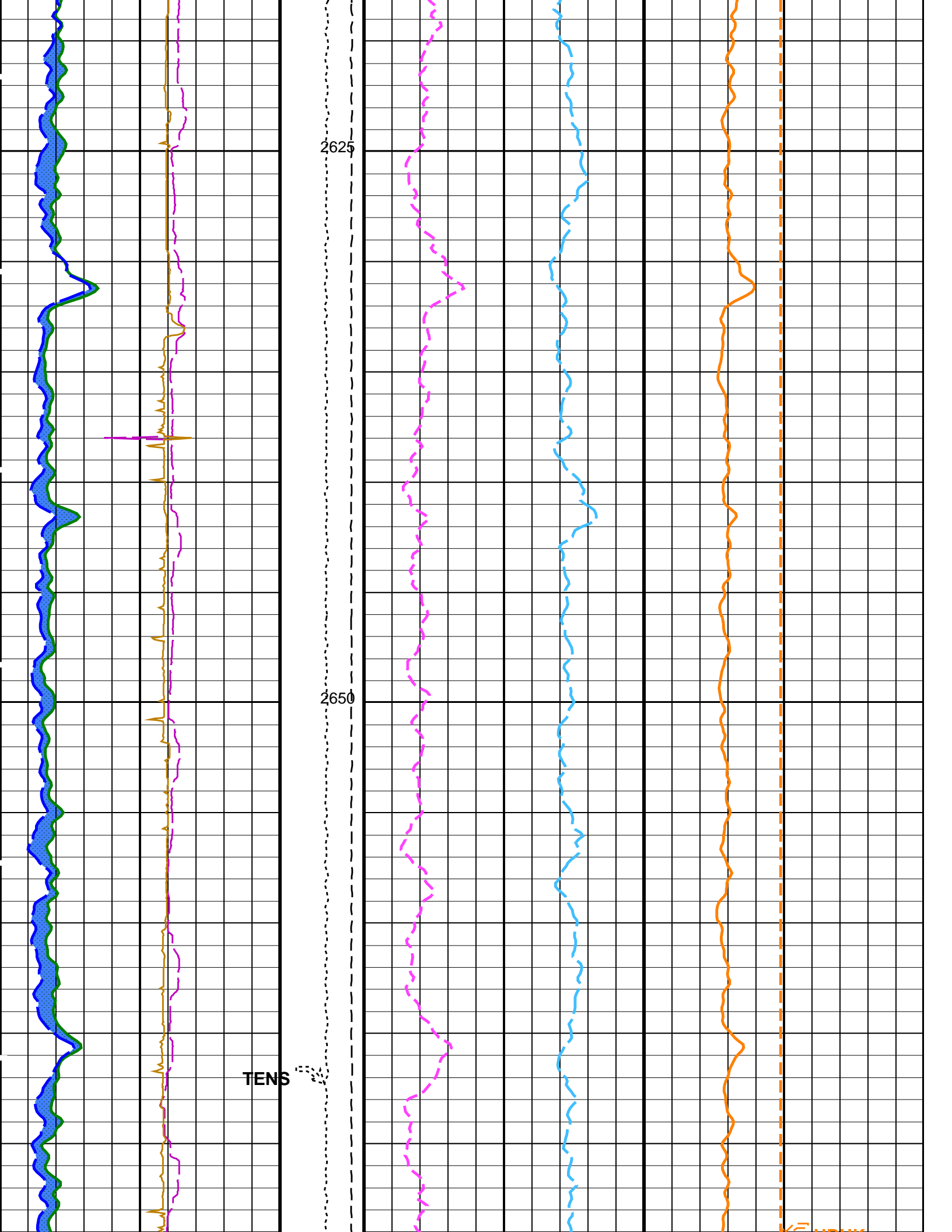


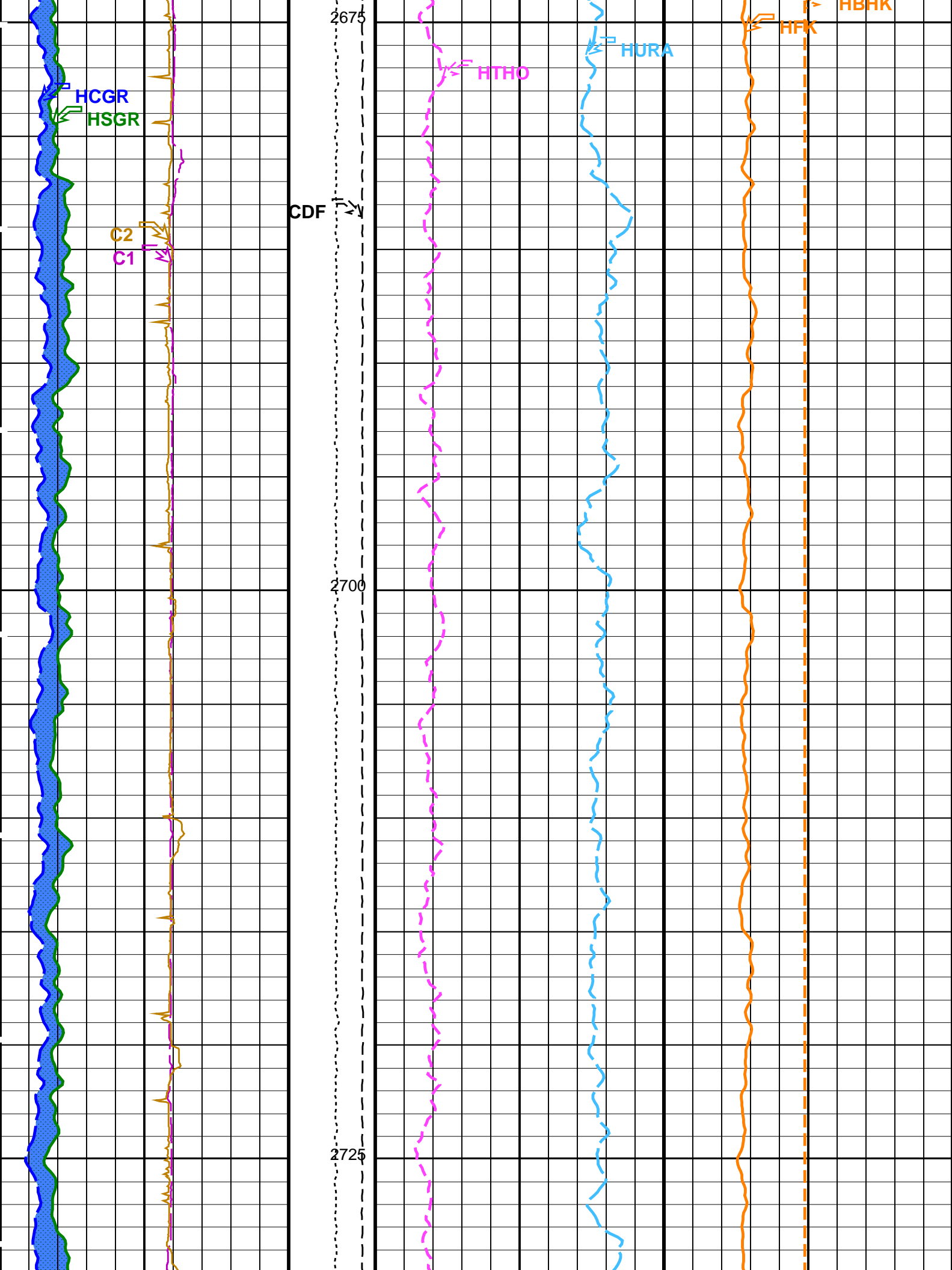


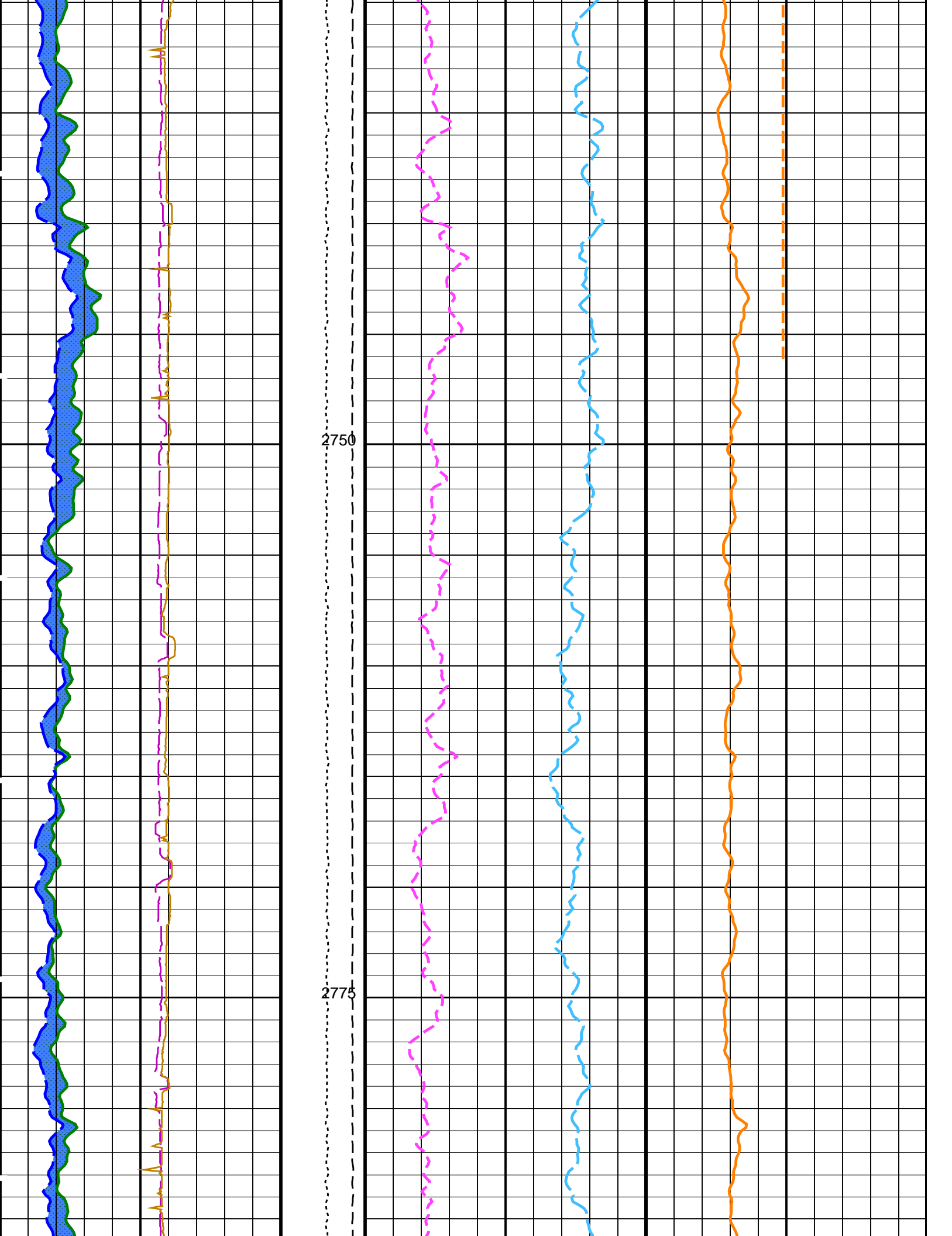


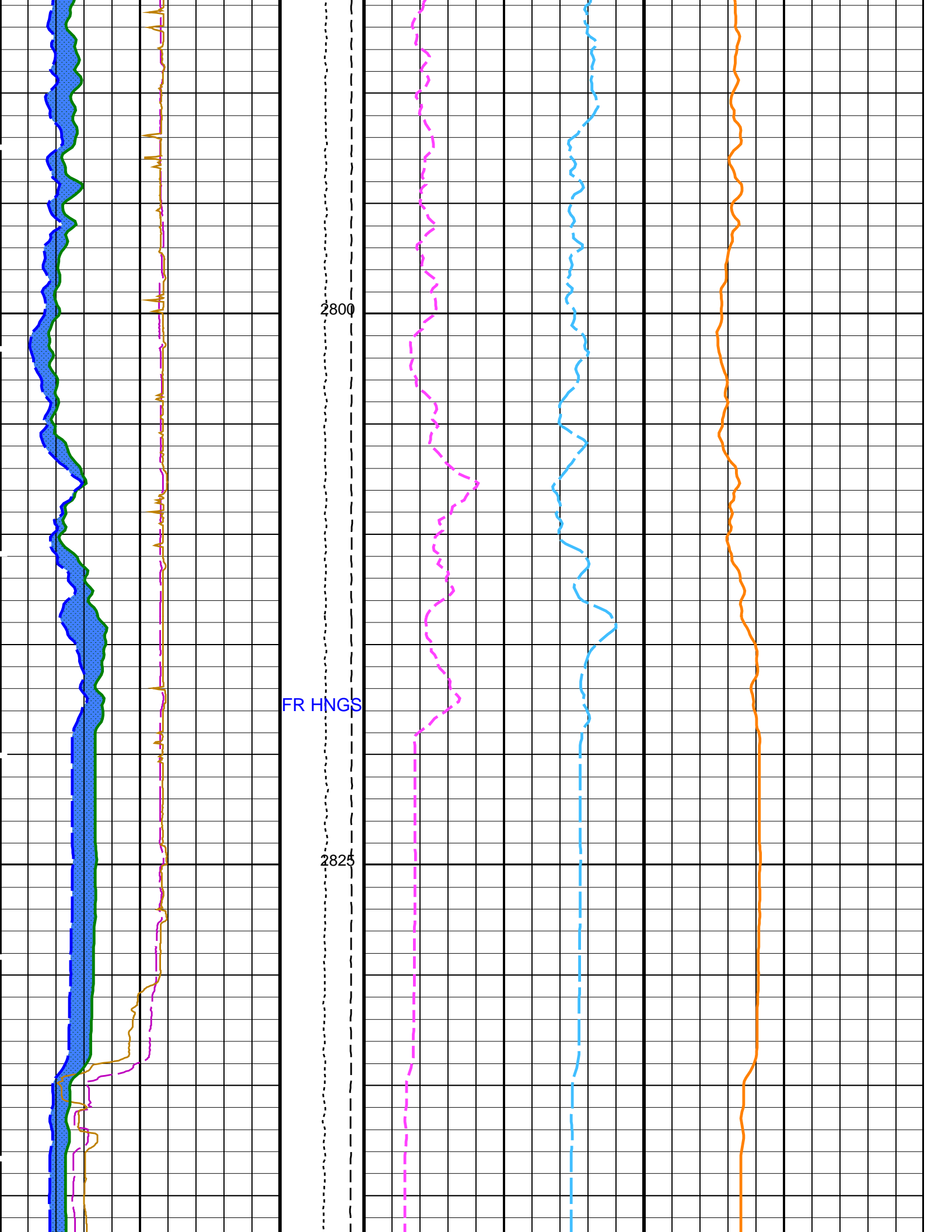


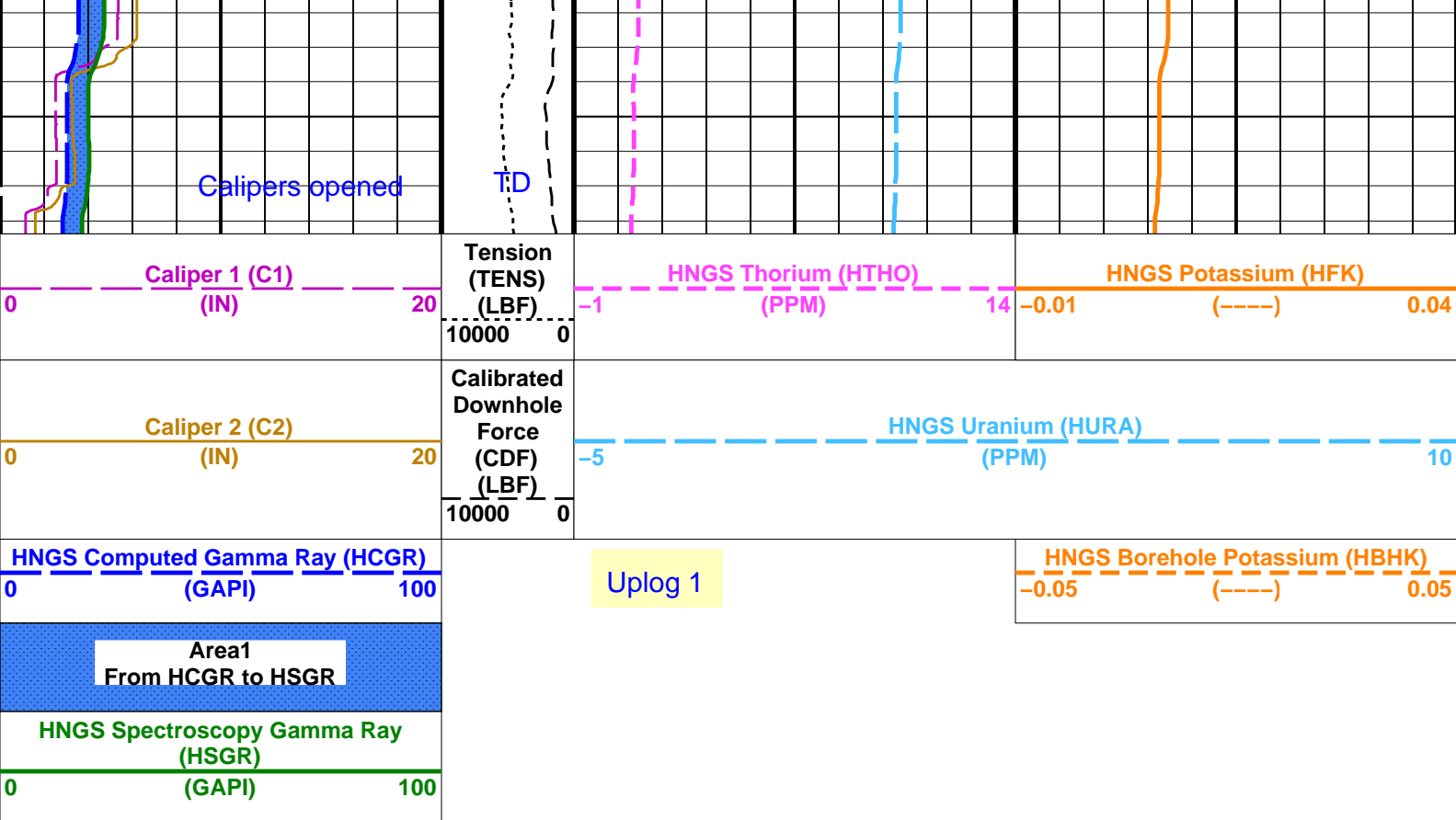












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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	-0.00173657	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01718	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03527	
System and Miscellaneous			
BS	Bit Size	11.438	IN

Format: HNGSYields Vertical Scale: 1:200

Graphics File Created: 04-Aug-2021 14:11

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	DTC-H	19C0-187

Output DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:40	PRODUCER	04-Aug-2021 14:11
BACKUP	FMS_DSI_NGS_025LUP	FN:41	PRODUCER	04-Aug-2021 14:11

Company: International Ocean Discovery Program

Well: Expedition 395C, Site U1564C

Output DLIS Files

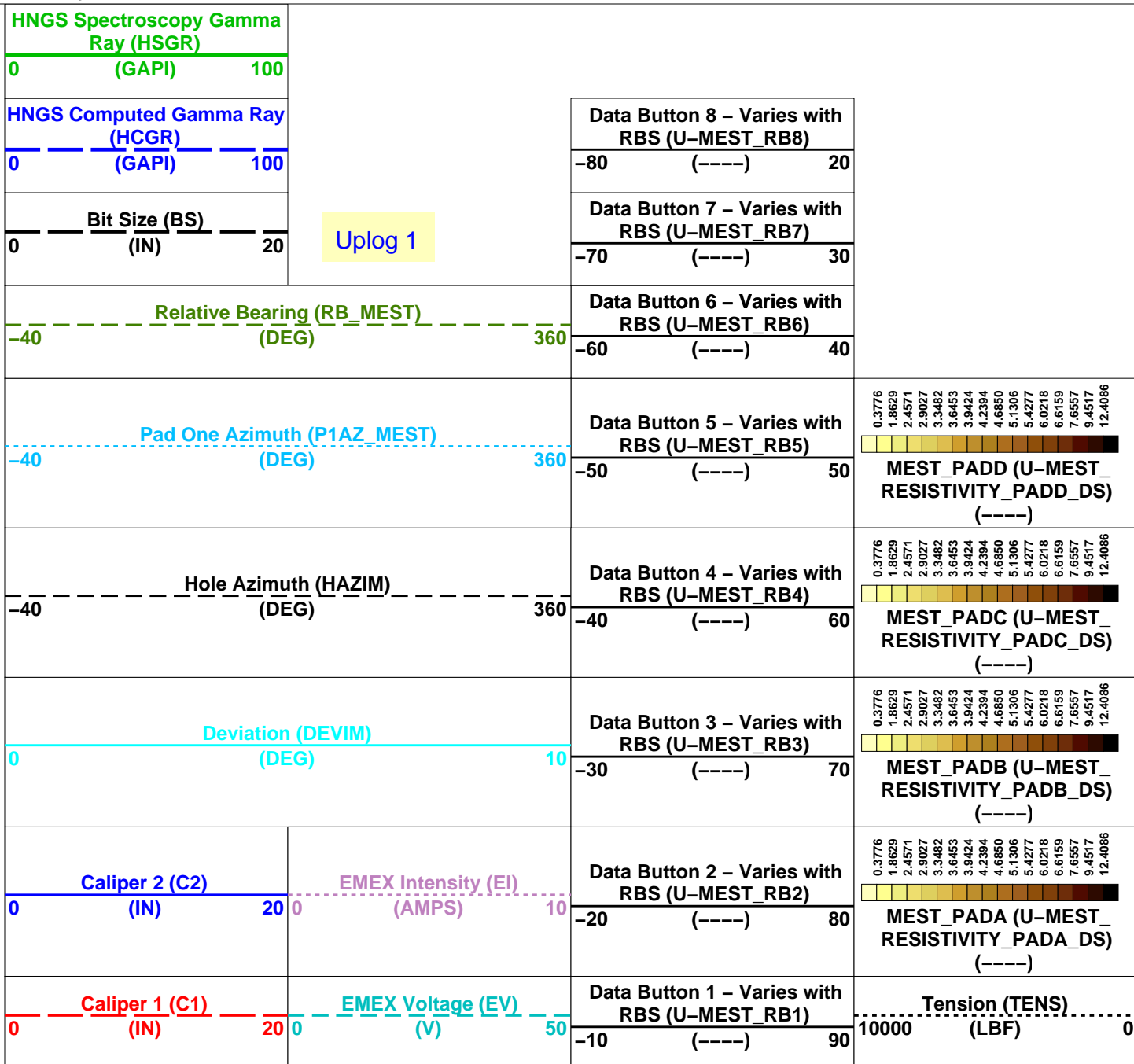
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BACKUP	FMS_DSI_NGS_025LUP	FN:41	PRODUCER	04-Aug-2021 14:11	2848.4 M	2211.3 M

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	DTC-H	19C0-187

PIP SUMMARY

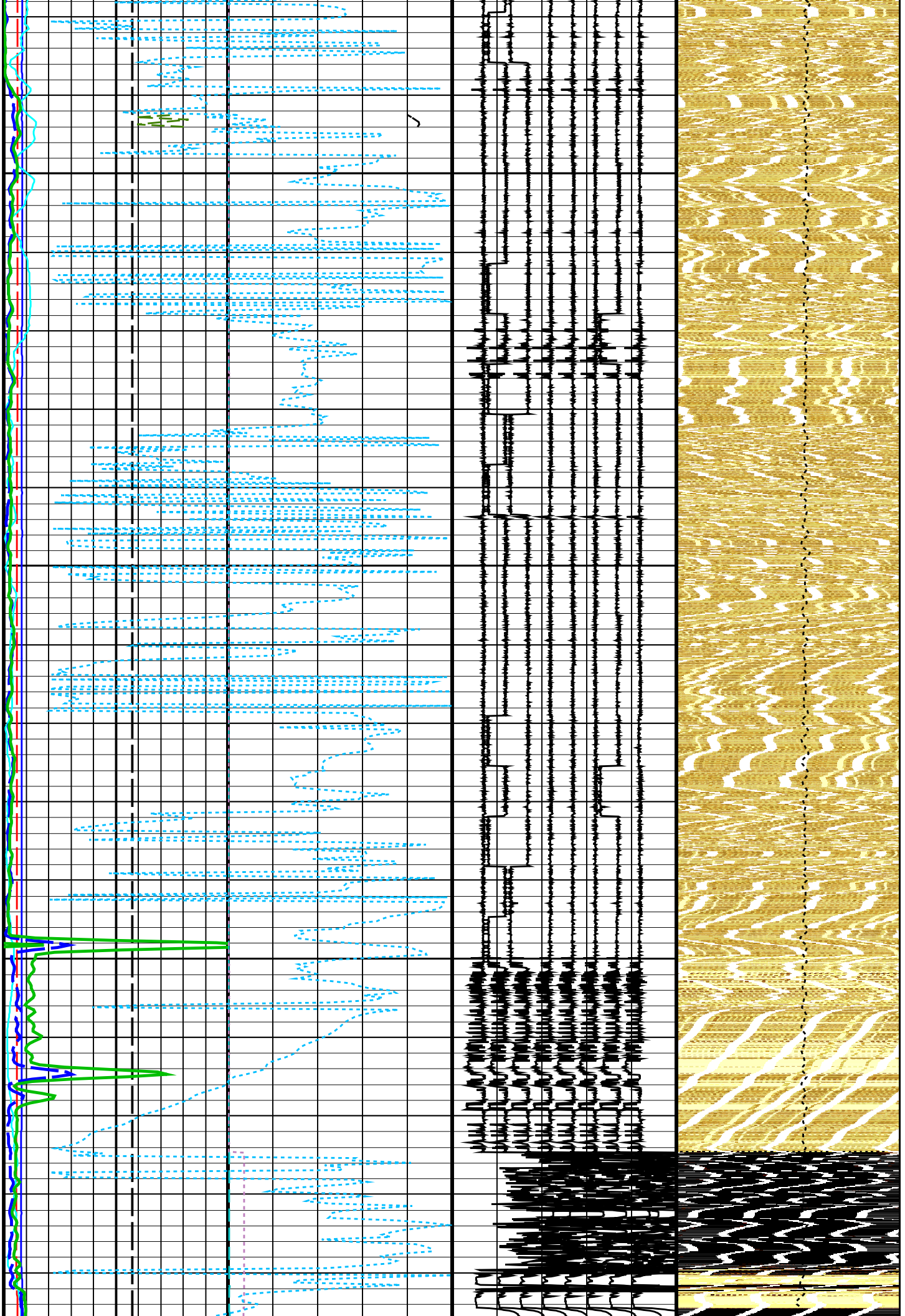
Time Mark Every 60 S



Seafloor

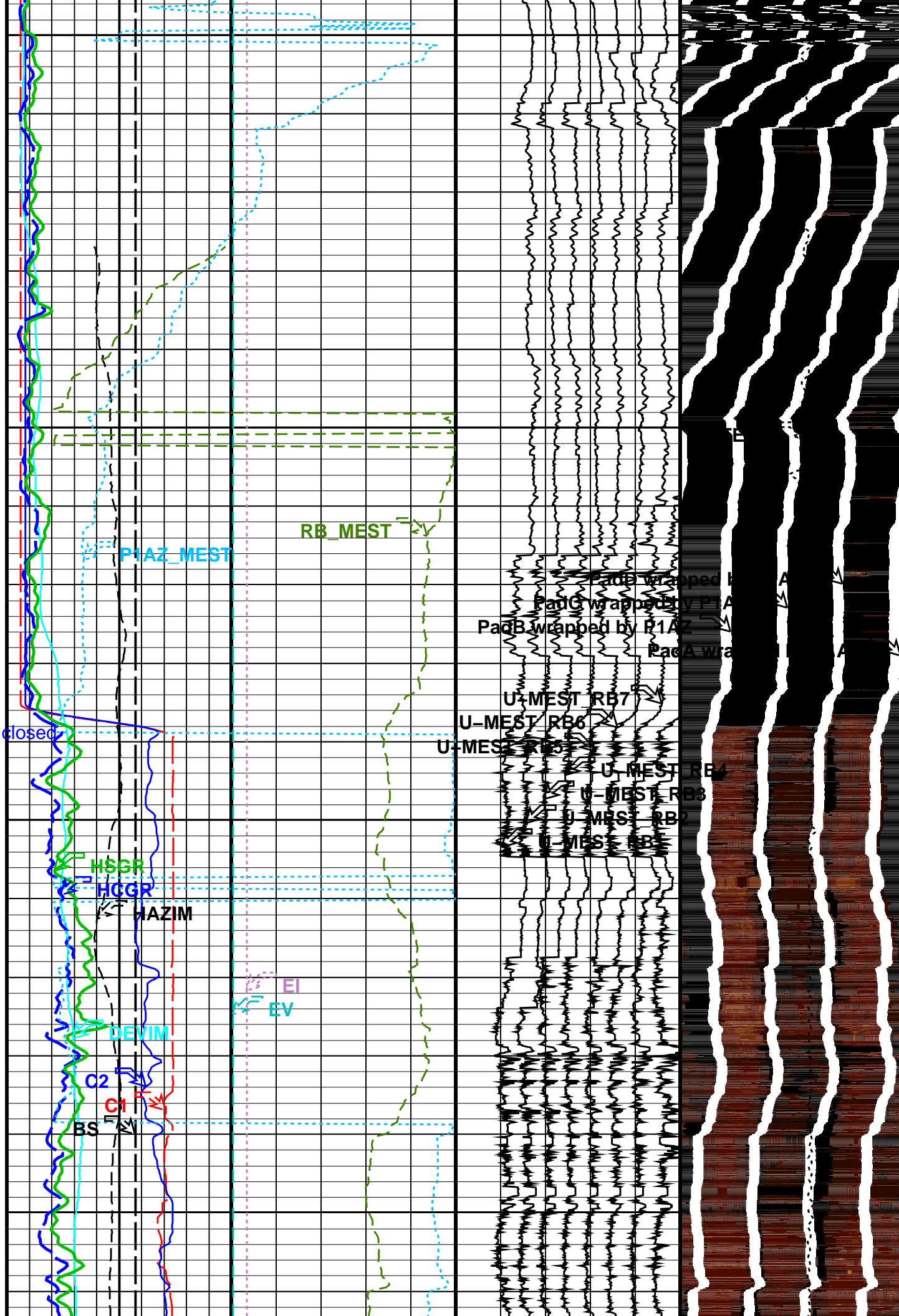
2250

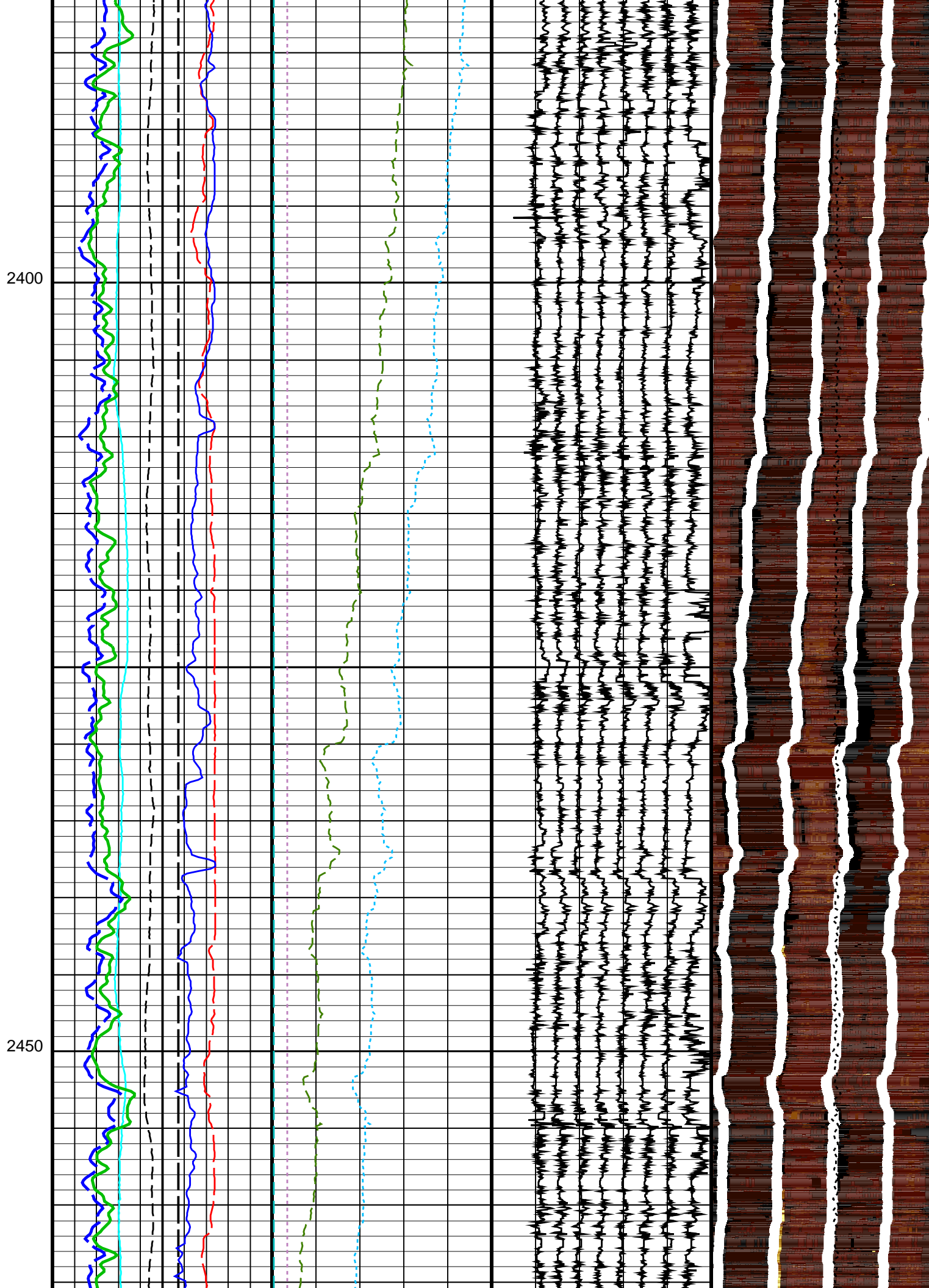
Drillpipe



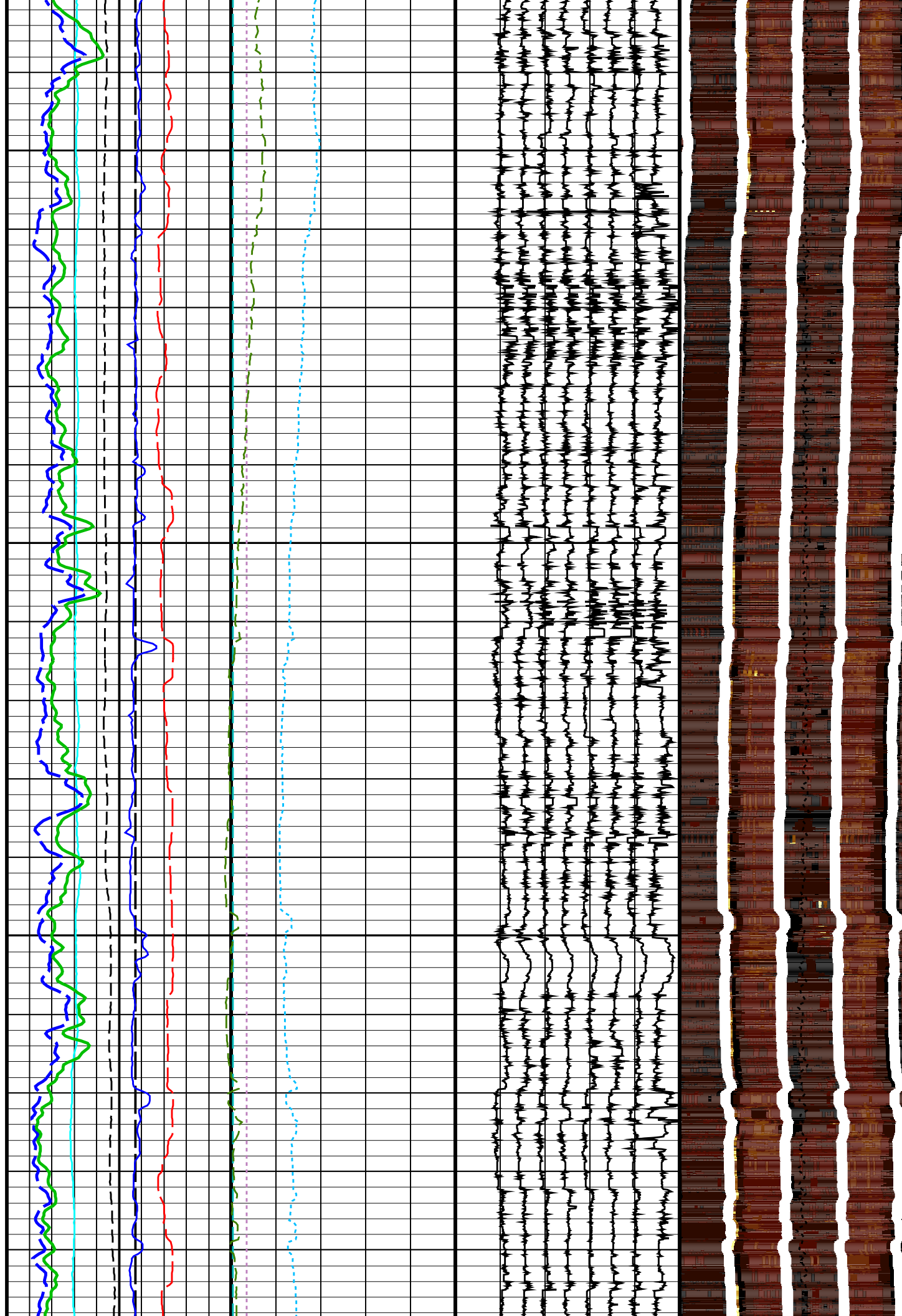
2350

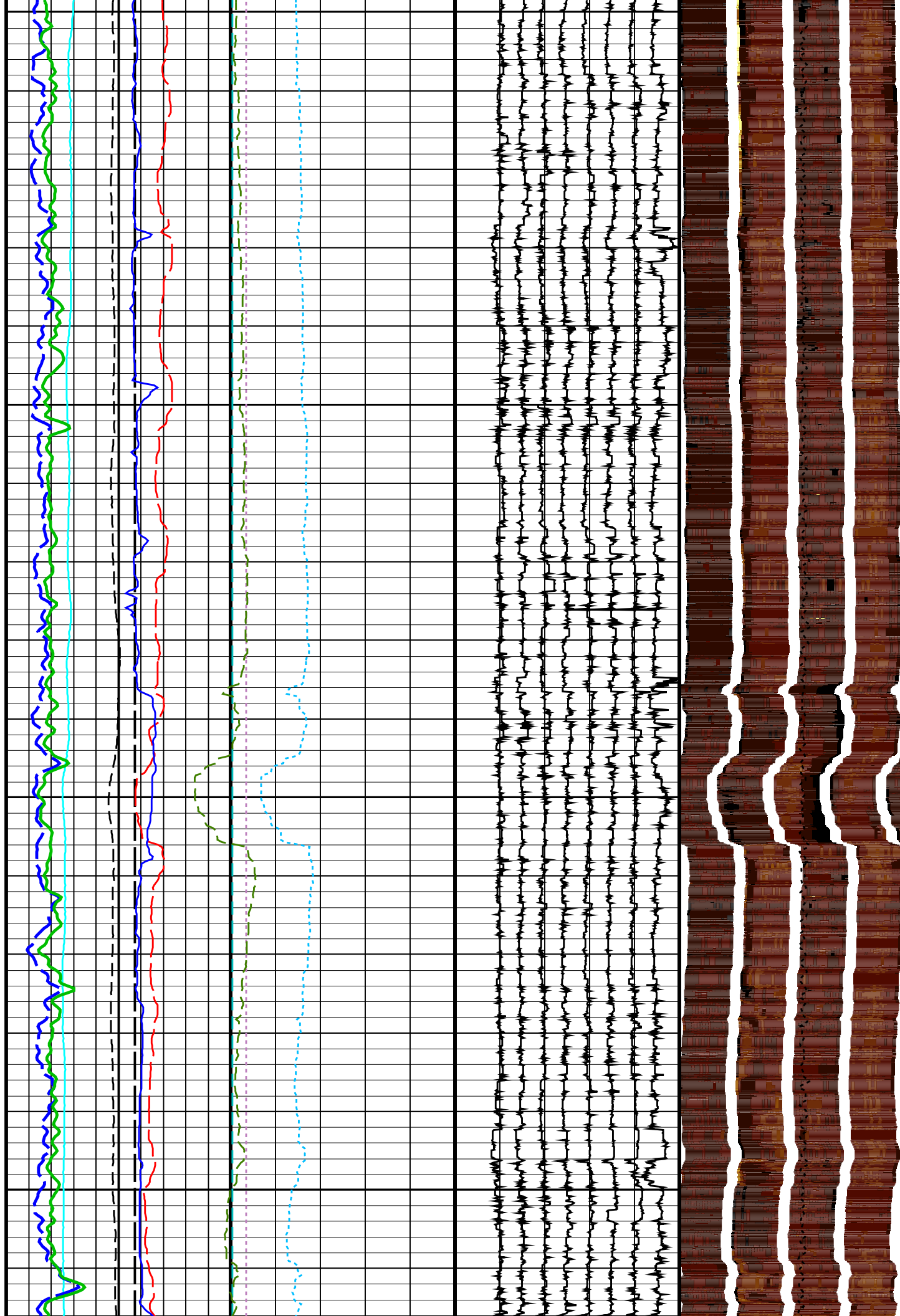
Calipers closed





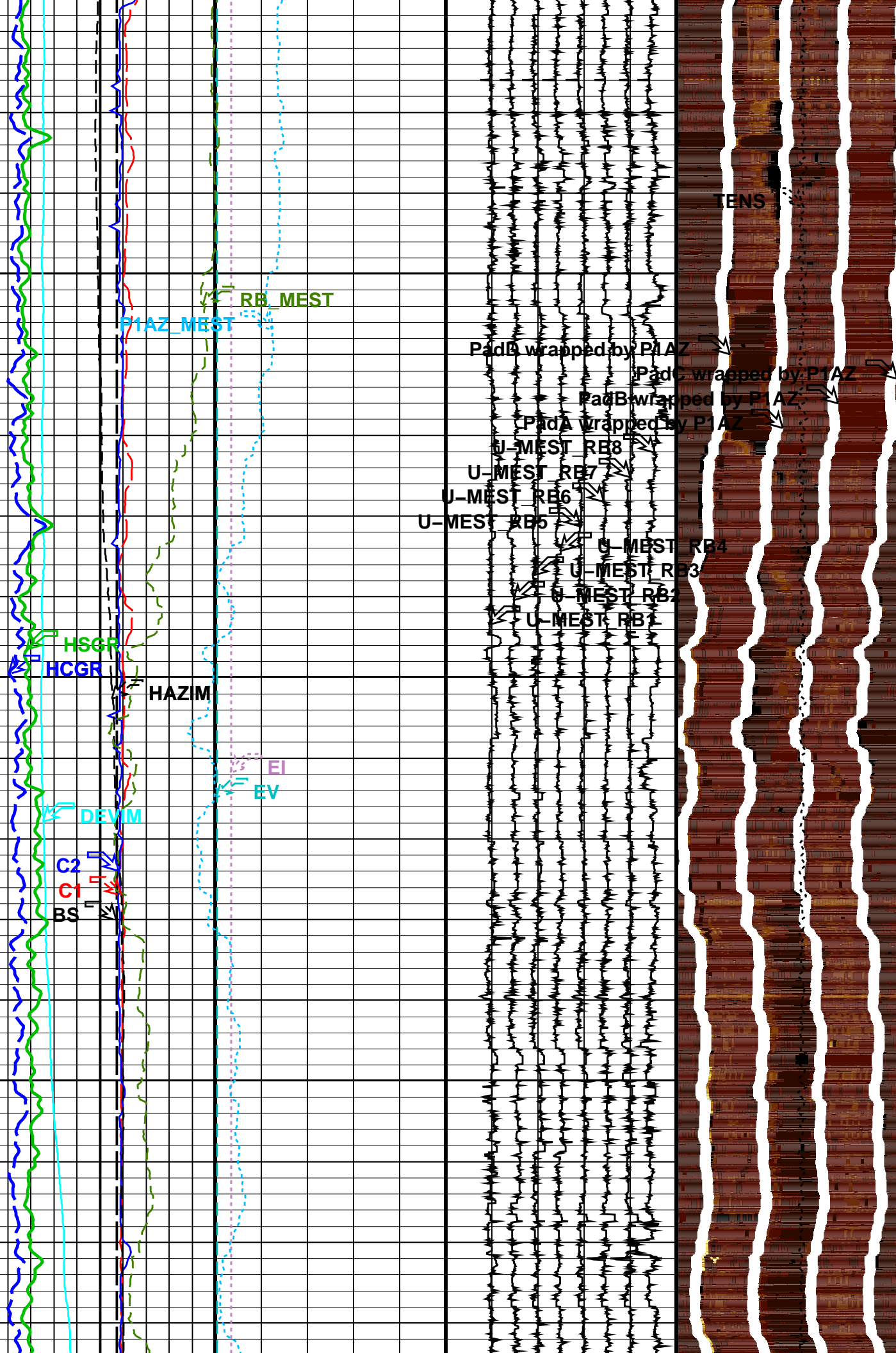
2500





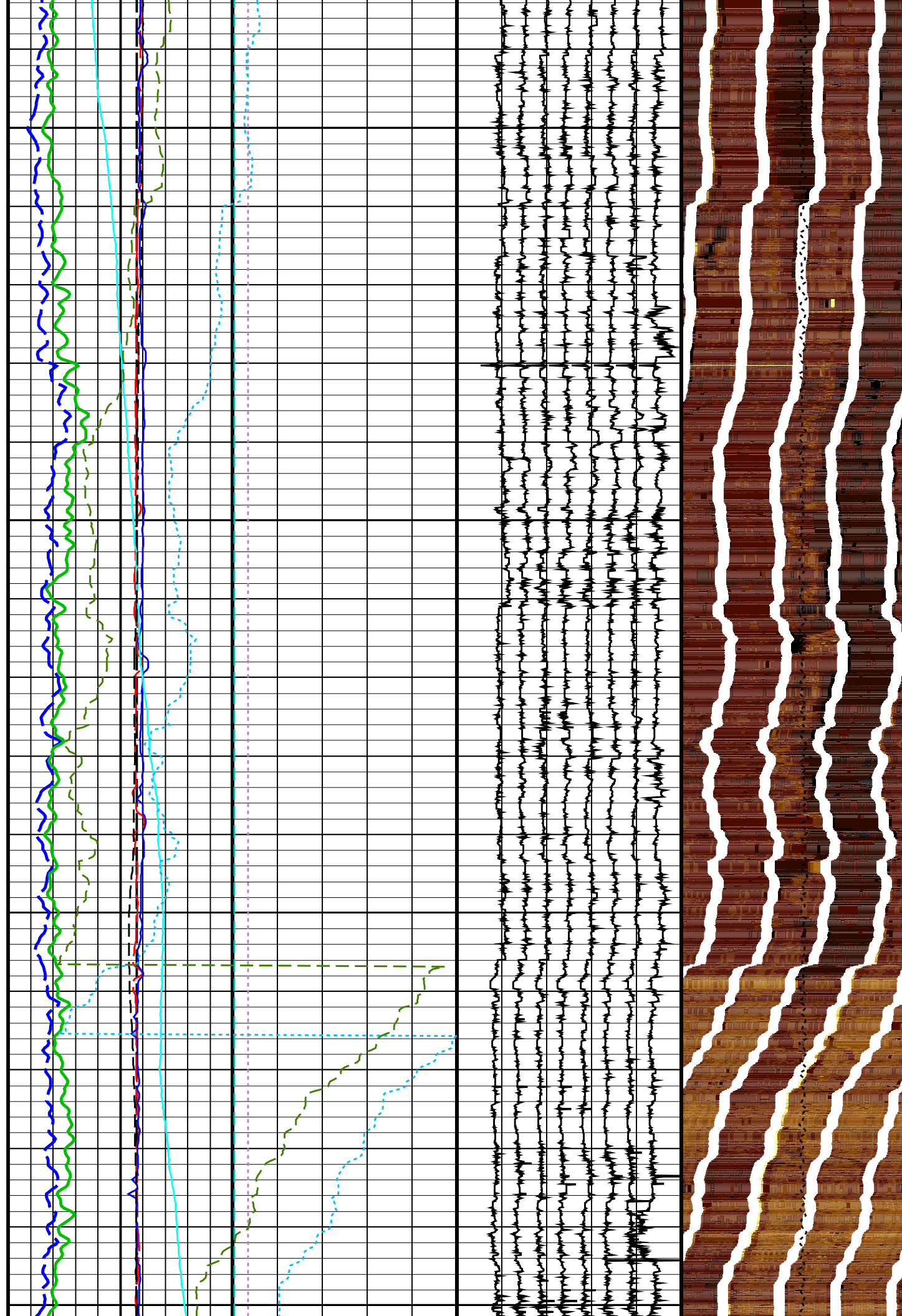
2650

2700



2750

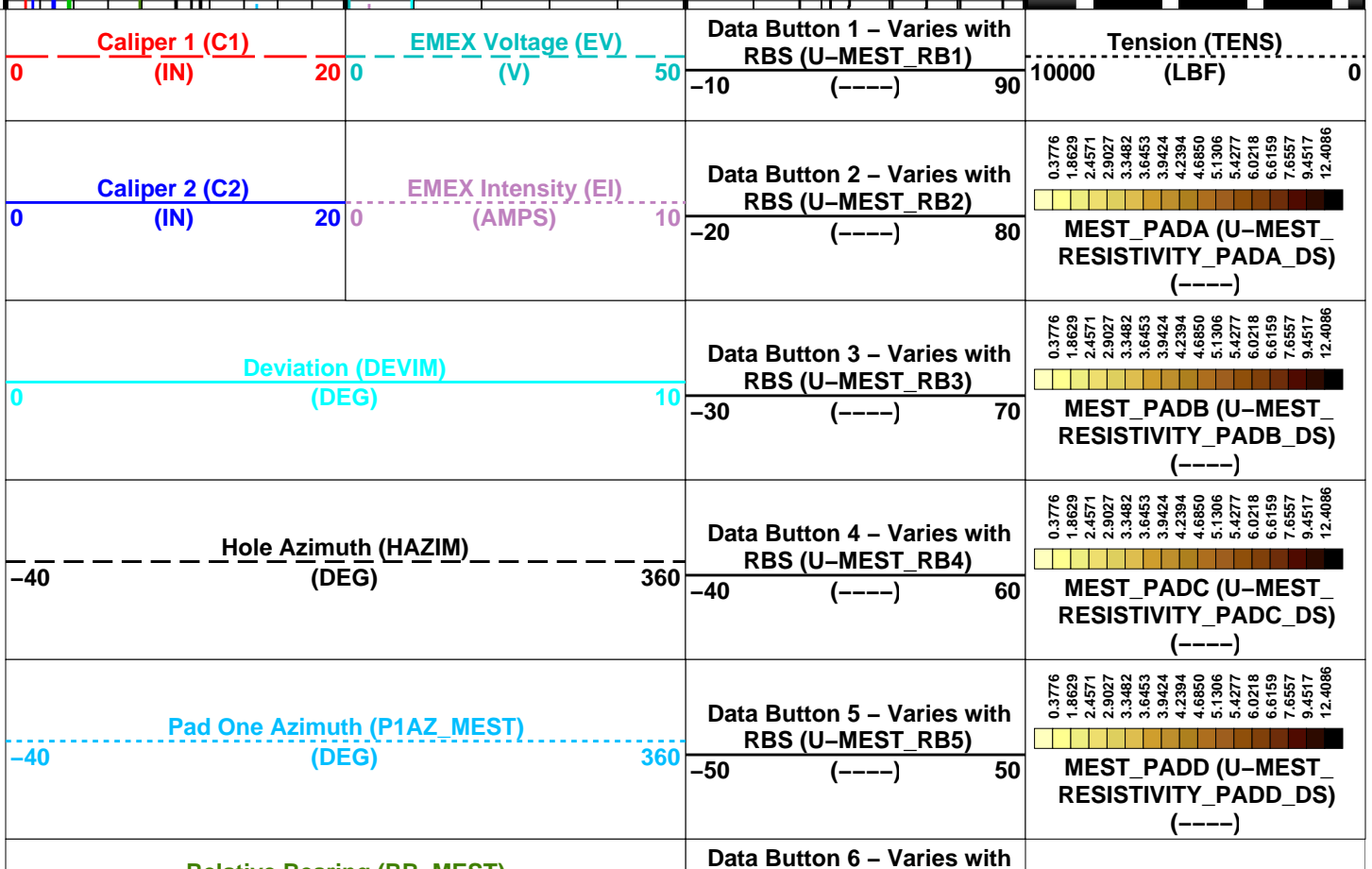
2800



FR HNGS

Calipers opened TD

Uplog 1



Relative Bearing (RB_MEST)		RBS (U-MEST_RB6)	
-40	(DEG)	-60	(----) 40
Bit Size (BS)		Data Button 7 - Varies with RBS (U-MEST_RB7)	
0	(IN) 20	-70	(----) 30
HNCS Computed Gamma Ray (HCGR)		Data Button 8 - Varies with RBS (U-MEST_RB8)	
0	(GAPI) 100	-80	(----) 20
HNCS 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	-11.3947	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	HNCS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNCS Borehole Potassium Running Average	-0.00173657	
HALF	HNCS Alpha Filter Length	60	IN
HCRB	HNCS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNCS Processing Enable	YES	
S1BI	HNCS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNCS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNCS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNCS Detector 1 Variable Barite Factor Running Average	1.01718	
VBA2	HNCS Detector 2 Variable Barite Factor Running Average	1.03527	
System and Miscellaneous			
BS	Bit Size	11.438	IN

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:300 Graphics File Created: 04-Aug-2021 14:11

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNCS-BA	19C0-187	DTC-H	19C0-187

Output DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:40	PRODUCER	04-Aug-2021 14:11
BACKUP	FMS_DSI_NGS_025LUP	FN:41	PRODUCER	04-Aug-2021 14:11

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration

Before: Calibration out of date 13-Jun-2021 22:51

Caliper 1 Zero Measurement	12.00	N/A	12.76	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.49	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.69	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.53	N/A	N/A	N/A	IN

Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 4-Aug-2021 11:44

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: 4-Aug-2021 11:44

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: Calibration out of date 2-May-2021 10:04 Before: 13-Jun-2021 9:44

Na 511 Peak Loc	40.00	39.25	39.64	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.53	14.84	N/A	N/A	2.000	%
High Voltage	1150	1197	1168	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	141.8	143.3	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.905	7.709	N/A	N/A	2.000	%
Temperature	15.50	26.59	11.69	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	12.01	12.89	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: Calibration out of date 2-May-2021 10:04 Before: 13-Jun-2021 9:44

Na 511 Peak Loc	40.00	39.88	39.51	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.29	15.27	N/A	N/A	2.000	%
High Voltage	1150	1122	1090	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.6	140.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.040	9.507	N/A	N/A	2.000	%
Temperature	15.50	27.21	12.30	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	12.32	13.60	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2

Master: Calibration out of date 2-May-2021 10:04 Before: 13-Jun-2021 9:44

Coincidence Count Rate Ratio	1.000	0.9728	0.9527	N/A	N/A	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: Calibration out of date 2-May-2021 10:00

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.6	--	--	--	--	
Th Peak Res	7.000	6.625	--	--	--	--	%
Background Count Rate	142.5	17.82	--	--	--	--	CPS
Gain Ratio	1.000	1.015	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: Calibration out of date 2-May-2021 10:00

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.8	--	--	--	--	
Th Peak Res	7.000	7.662	--	--	--	--	%
Background Count Rate	142.5	16.78	--	--	--	--	CPS
Gain Ratio	1.000	0.9961	--	--	--	--	

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	724
MEST Preamplifier Cartridge – AB	MEPC – AB	806
GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	804

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH – A	701
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	769

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

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

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS – BA	99
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH – BA	102
Gamma Source Radioactive	GSR – U	6098

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check



Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master	<div><div></div></div>		39.25	Master	<div><div></div></div>		16.53	Master	<div><div></div></div>		1197
Before	<div><div></div></div>		39.64	Before	<div><div></div></div>		14.84	Before	<div><div></div></div>		1168
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>		141.8	Master	<div><div></div></div>		8.905	Master	<div><div></div></div>		26.59
Before	<div><div></div></div>		143.3	Before	<div><div></div></div>		7.709	Before	<div><div></div></div>		11.69
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>		12.01								
Before	<div><div></div></div>		12.89								
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)											
Master: Calibration out of date 2-May-2021 10:04 Before: 13-Jun-2021 9:44											






Hostile Natural Gamma Ray Sonde Wellsite Calibration






Detector 2 Check

Detector 2 Check											
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			39.88	Master			15.29	Master			1122
Before			39.51	Before			15.27	Before			1090
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			8.040	Master			27.21
Before			140.8	Before			9.507	Before			12.30
135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)				7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)				-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)			
Phase	Na Count Rate CPS		Value								
Master			12.32								
Before			13.60								
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)											
Master: Calibration out of date 2-May-2021 10:04				Before: 13-Jun-2021 9:44							

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9728

Master		0.9726
Before		0.9527
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: Calibration out of date 2-May-2021 10:04		
Before: 13-Jun-2021 9:44		

Hostile Natural Gamma Ray Sonde Master Calibration														
Detector 1 Calibration														
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value	Phase	Th Peak Res %			Value
Master				41.00	Master				209.6	Master				6.625
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				17.82	Master				1.015					
10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)					0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)									
Master: Calibration out of date 2-May-2021 10:00														

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			208.8	Master			7.662			
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			16.78	Master			0.9961							
10.00 (Minimum)			142.5 (Nominal)	265.0 (Maximum)			0.9400 (Minimum)					1.000 (Nominal)	1.060 (Maximum)	
Master: Calibration out of date 2-May-2021 10:00														

DTS Telemetry Tool / Equipment Identification		
Primary Equipment:		
DTC-H Auxiliary Cartridge	DTCH – A	8799
DTC-H Telemetry Cartridge	DTCH – A	8799
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH – KC	9842

Company: **International Ocean Discovery Program**

Schlumberger

Well: **Expedition 395C, Site U1564C**

Field: **North Atlantic Mantle Convection&Climate**

Rig: **JOIDES Resolution**

Ocean: **Atlantic**

Formation Micro Scanner (FMS)

Dipole Shear Sonic (DSI)

Natural Gamma (HNGS)