



**Company: International Ocean Discovery Program**

Well: **Expedition 395C, Site U1562B**

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

Rig:	JOIDES Resolution	Formation Micro Scanner (FMS)			
Field:	North Atlantic Mantle Convection	Dipole Shear Sonic (DSI)			
Location:	Latitude: N 60.1049	Natural Gamma / (HNCS)			
Well:	Expedition 395C, Site U1562B				
Company:	International Ocean Discovery Program				
LOCATION		Latitude: N 60.1049		Elev.:	K.B. 0.00 m
		Longitude: W 26.5017			G.L. -2014.50 m
					D.F. 0.00 m
		Permanent Datum:	Sea Floor	Elev.:	-2014.50 m
		Log Measured From:	Rig Floor	2014.50 m above Perm. Datum	
		Drilling Measured From:	Rig Floor		
API Serial No.		Max. Hole Devi.	Longitude	Latitude	
		5 deg	W 26.5017	N 60.1049	

Logging Date			20-Jul-2021					
Run Number			1					
Depth Driller			2576 m					
Schlumberger Depth			2573 m					
Bottom Log Interval			2573 m					
Top Log Interval			2014.5 m					
Casing Driller Size @ Depth			5.500 in @ 2103.1 m			@		
Casing Schlumberger			2101 m					
Bit Size			9.875 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	0.369 @ 5	@ 5	@	@			
Maximum Recorded Temperatures			5 degC					
Circulation Stopped		Time	19-Jul-2021	9:00				
Logger On Bottom		Time	19-Jul-2021	03:15				
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]

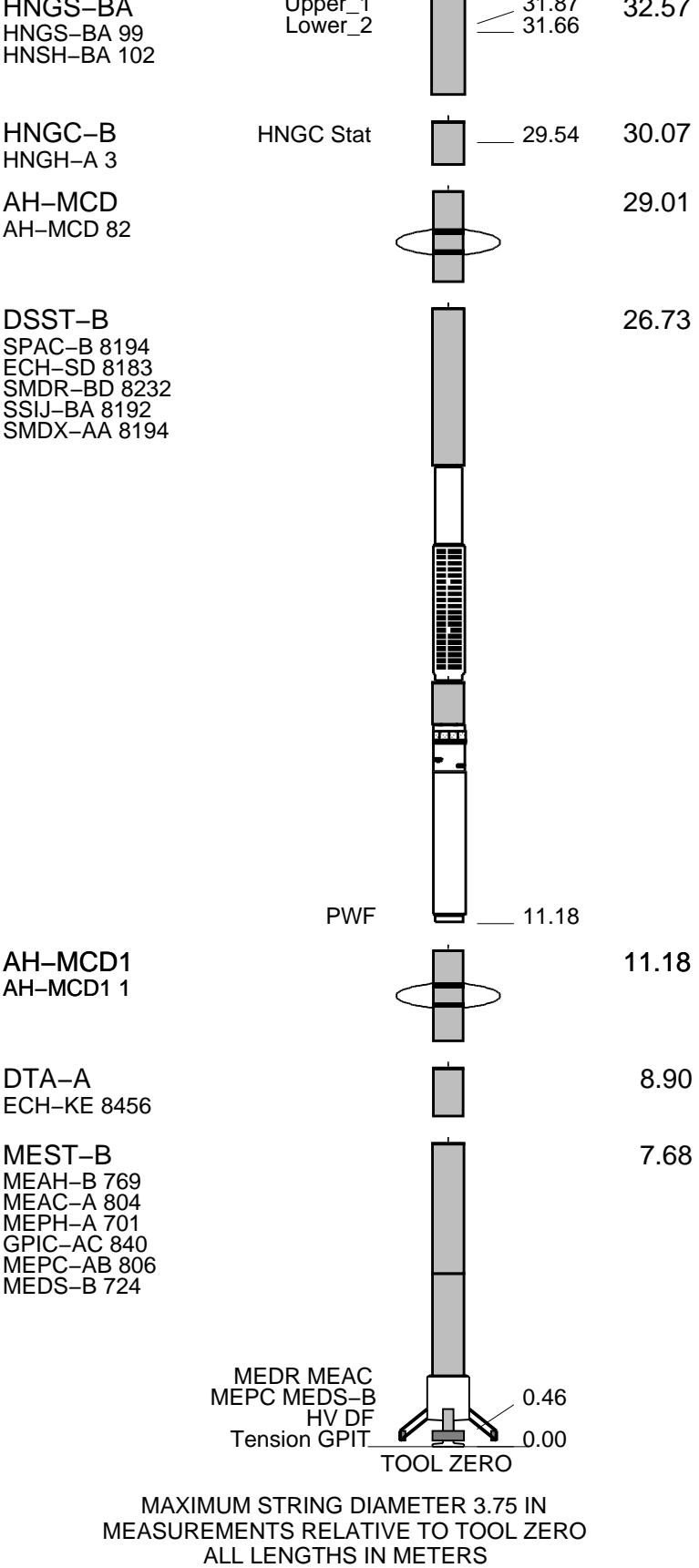
## DISCLAIMER

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OTHER SERVICES1			OTHER SERVICES2		
OS1: tcombo/aps/mss			OS1:		
OS2: ubi			OS2:		
OS3: VSI			OS3:		
OS4:			OS4:		
OS5:			OS5:		
REMARKS: RUN NUMBER 1			REMARKS: RUN NUMBER 2		
Hole drilled with RCB bottom hole assembly (BHA) at 9.875" BS					
Seafloor not able to be determined on log.					
Gamma ray drops off around 2001 mbrf and is due to aps neutron activation from					
Run1 APS being deactivated at that depth and not because of formation gamma ray.					
Drill pipe set at 2103.1 mbrf.					
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.					
Downlog flipped and note the caliper closed logging down.					
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION: 19C0-187</div> <div>FLUID LEVEL:</div> </div> </div>			<div> <div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> </div>		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION	
1	...
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3	...
4	...
5	...
6	...
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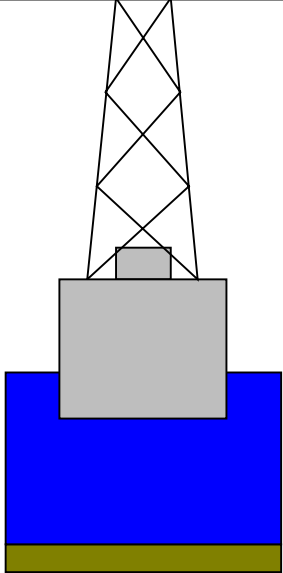
EQUIPMENT DESCRIPTION		RUN 1	RUN 2
SURFACE EQUIPMENT			
GSR-U 6098 WITM (DTS)-A			
DOWNHOLE EQUIPMENT			
LEH-QT			
LEH-QT 301			
AH-369			
DTC-H	CTEM		
ECH-KC 9842	TelStatus		
UNOC-DA	ToolStatus		
UNOC-DA	Unpop 1		



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

Kelly Bushing Elevation  
Derrick Floor Elevation  
  
Mean Sea Level

0  
0  
  
11



4.1



2014.5 4.1  
2103.1 9.875  
  
2576

Sea Floor  
Open Hole  
  
Total Depth





Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_029LUP	PRODUCER	20-Jul-2021 05:39	2576.3 M	1952.2 M
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Output DLIS Files

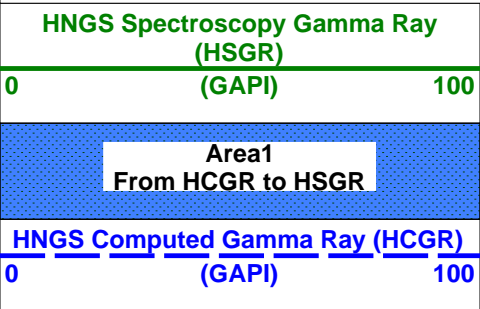
DEFAULT	FMS_DSI_NGS_032PUP	FN:53	PRODUCER	20-Jul-2021 05:48	2576.3 M	1952.2 M
BACKUP	FMS_DSI_NGS_032PUP	FN:54	PRODUCER	20-Jul-2021 05:48	2576.3 M	1952.2 M

OP System Version: 19C0-187

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

PIP SUMMARY

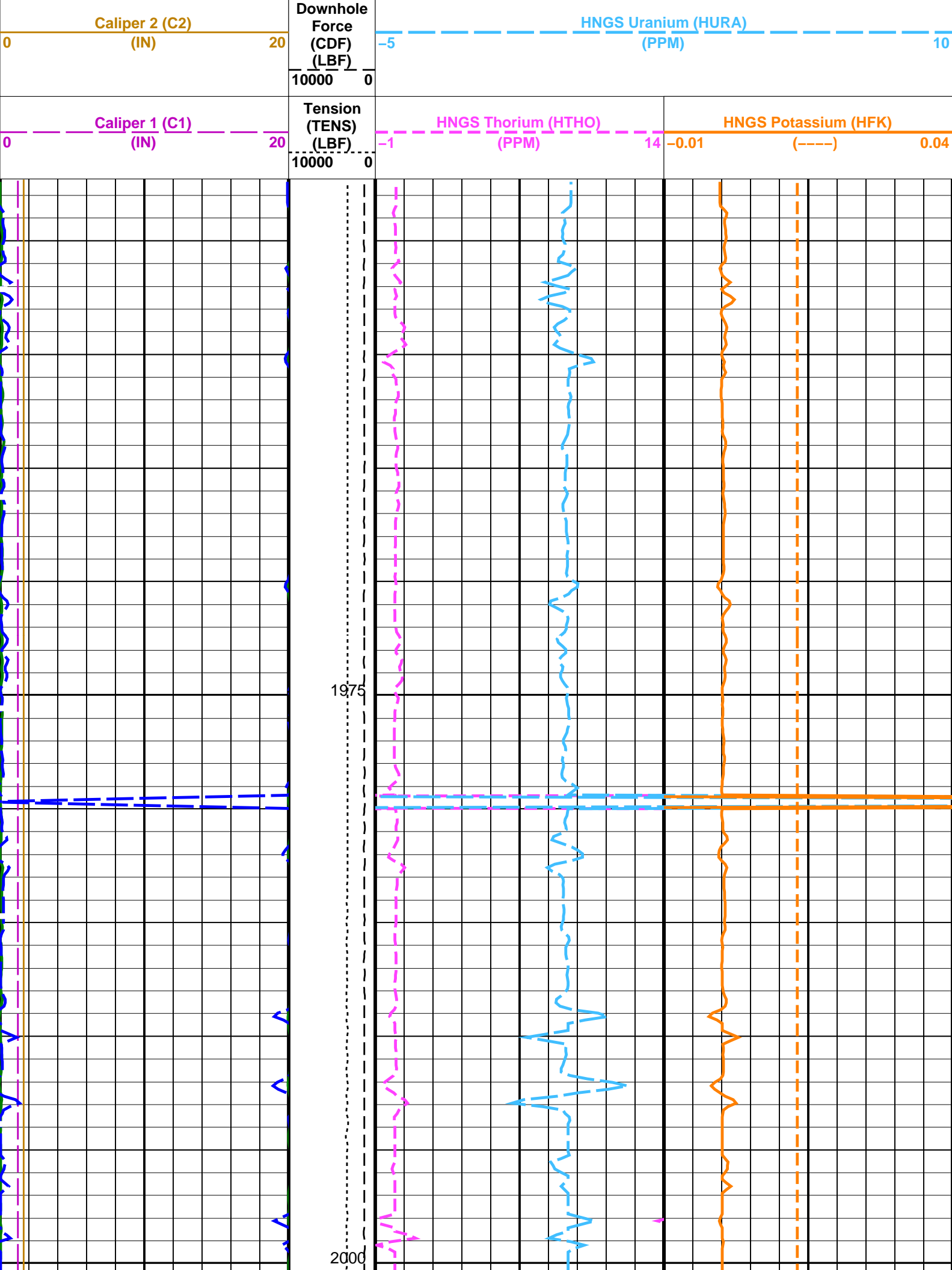
 Time Mark Every 60 S



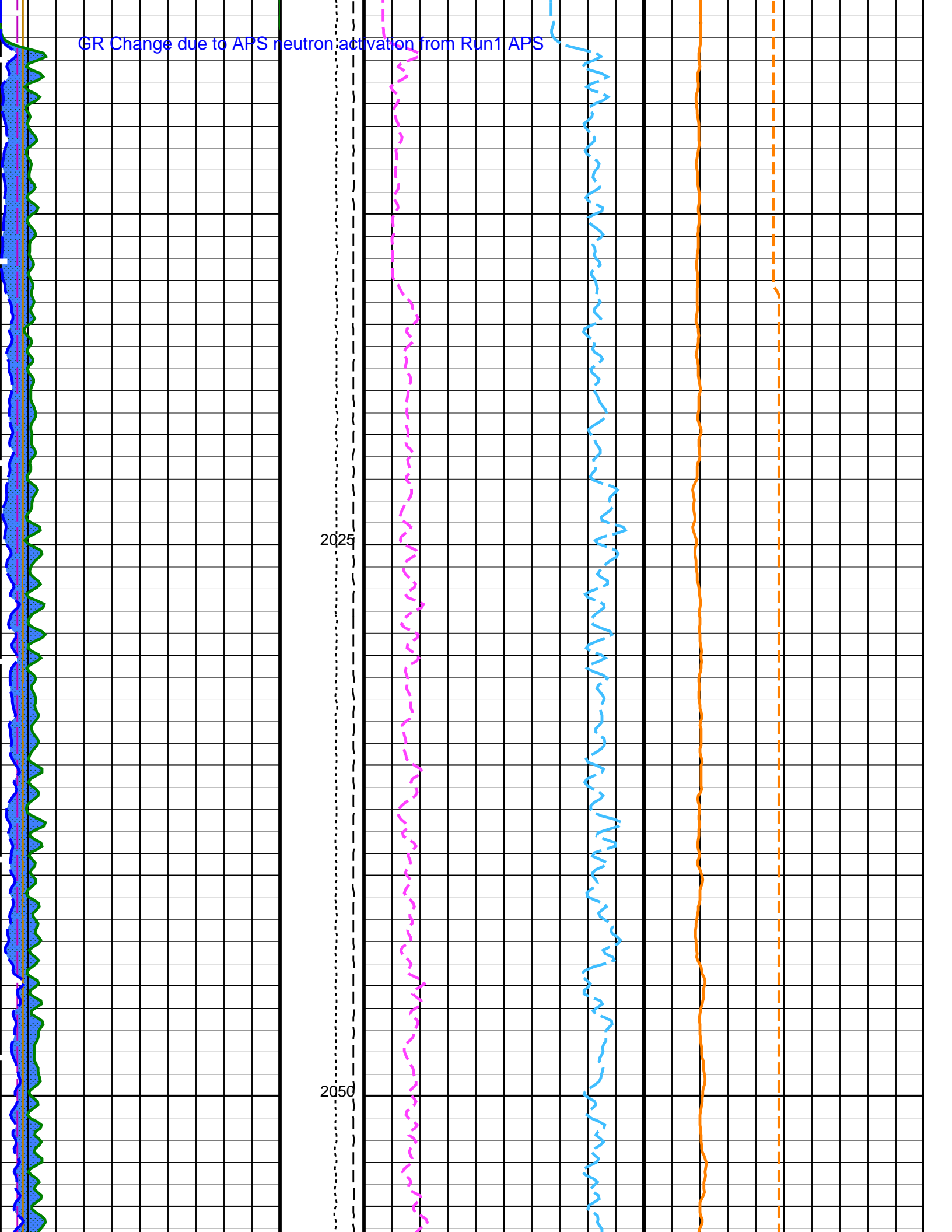
Downlog

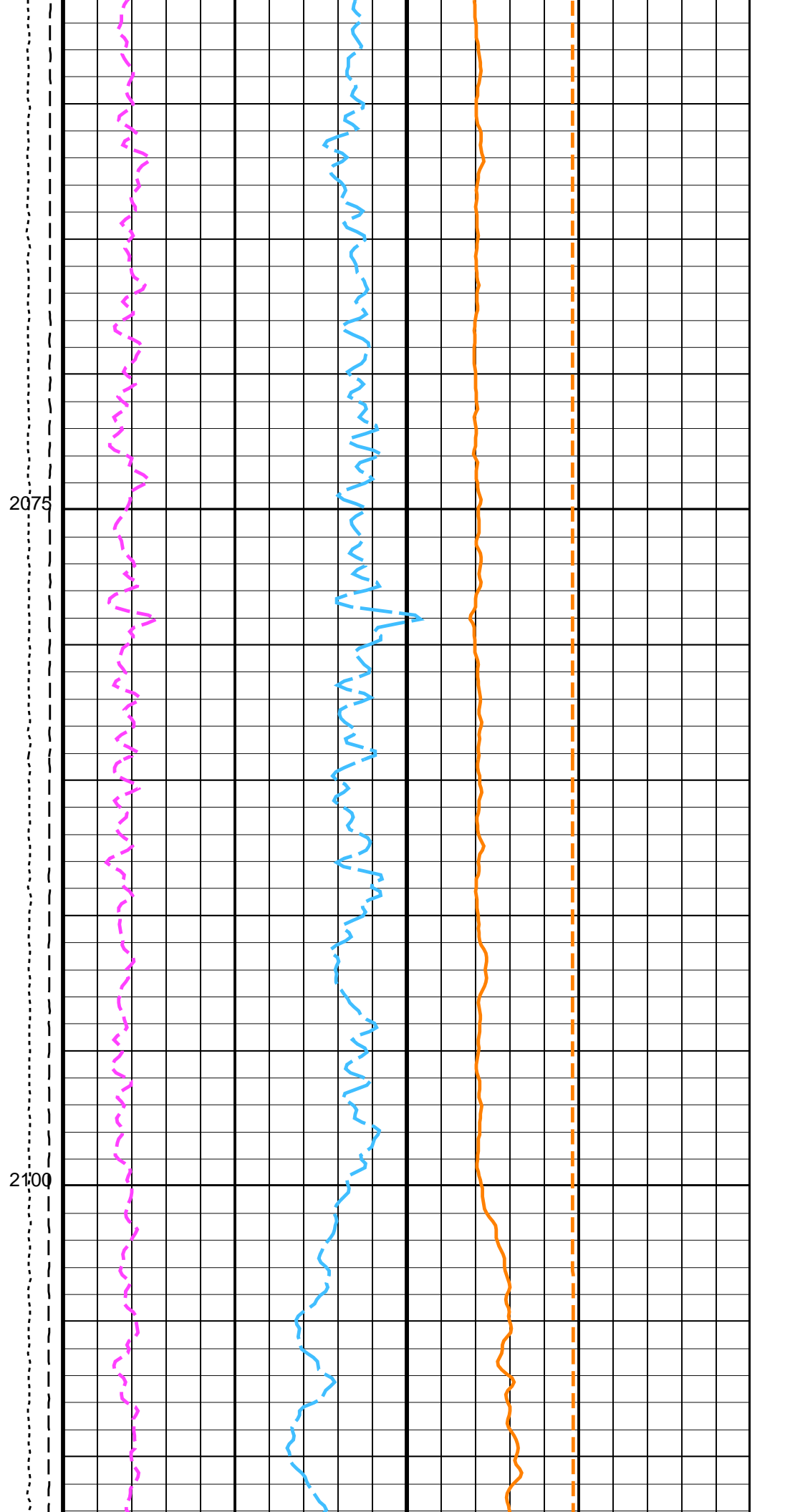
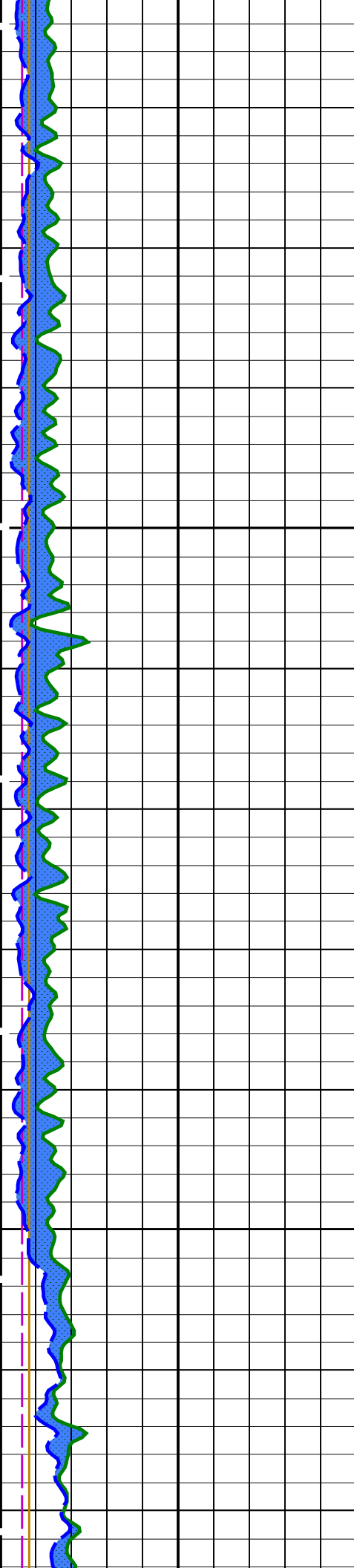


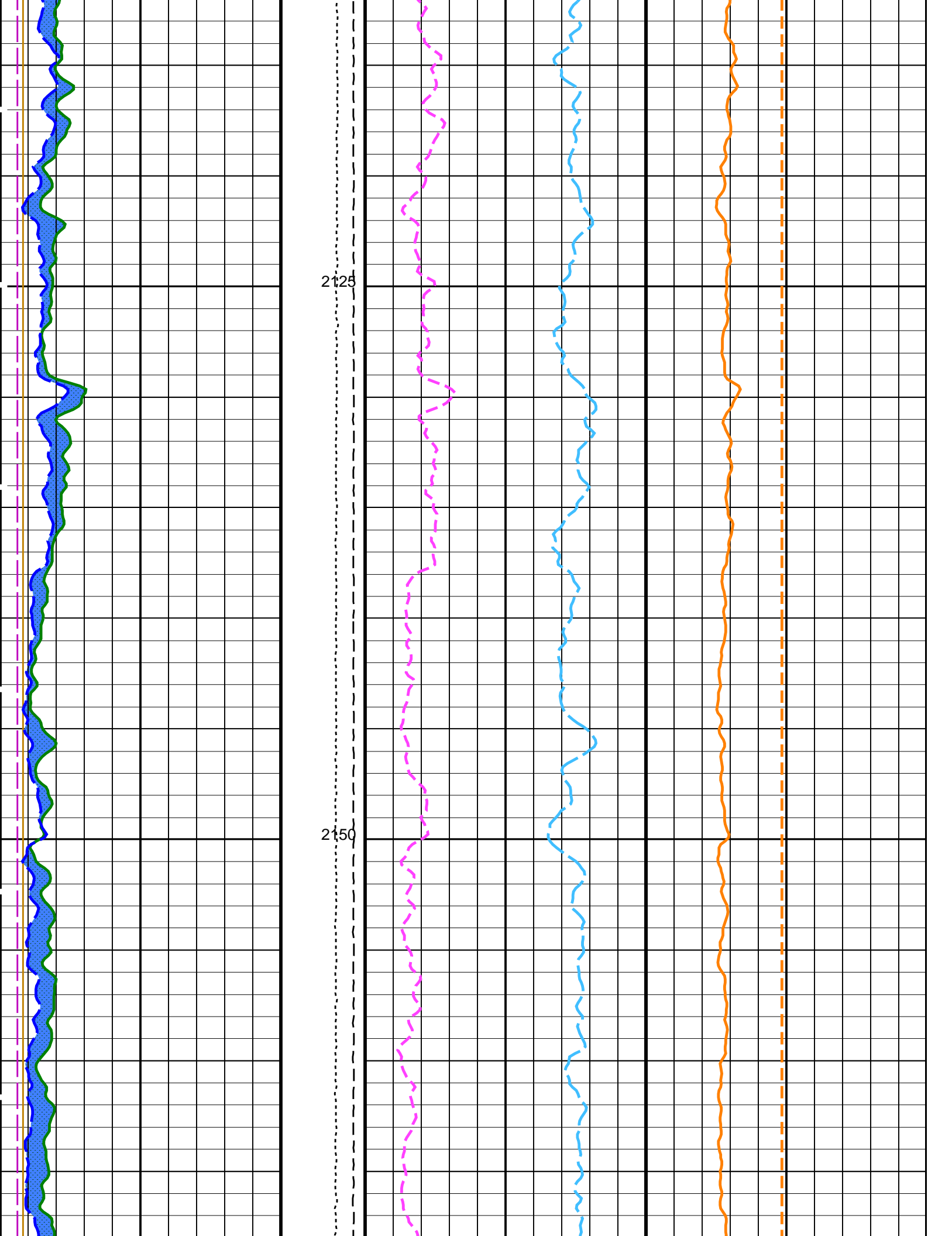
Calibrated

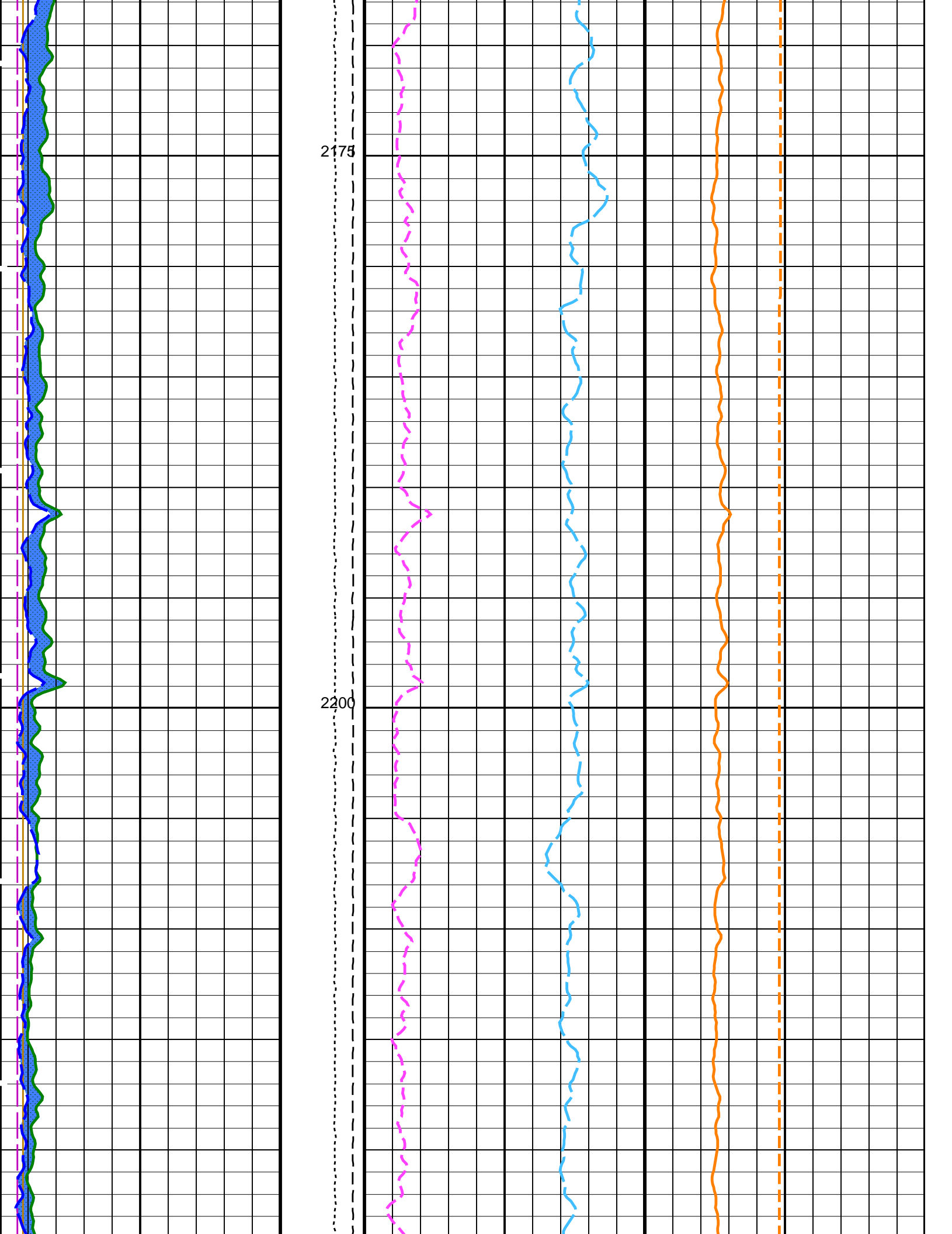


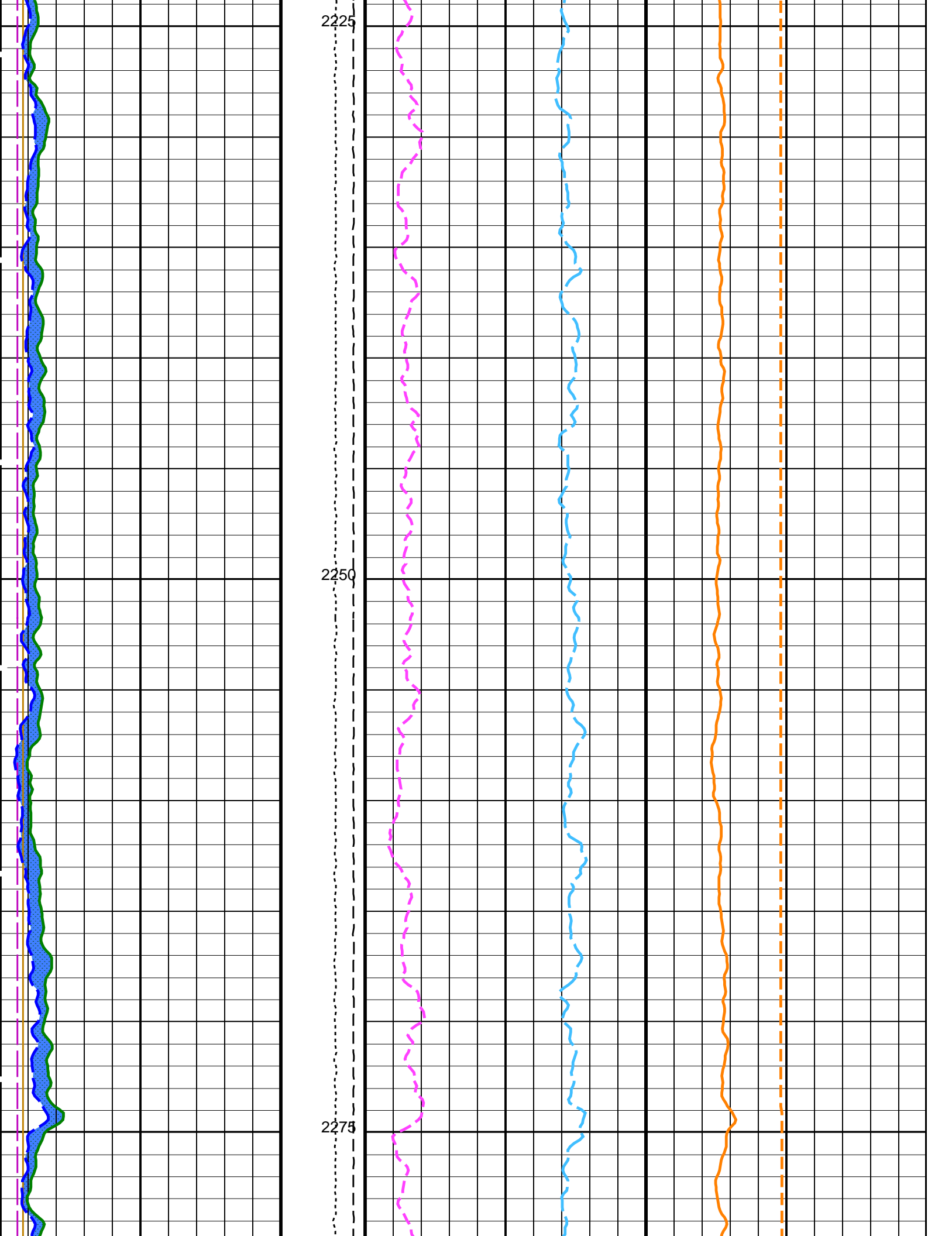
GR Change due to APS neutron activation from Run1 APS

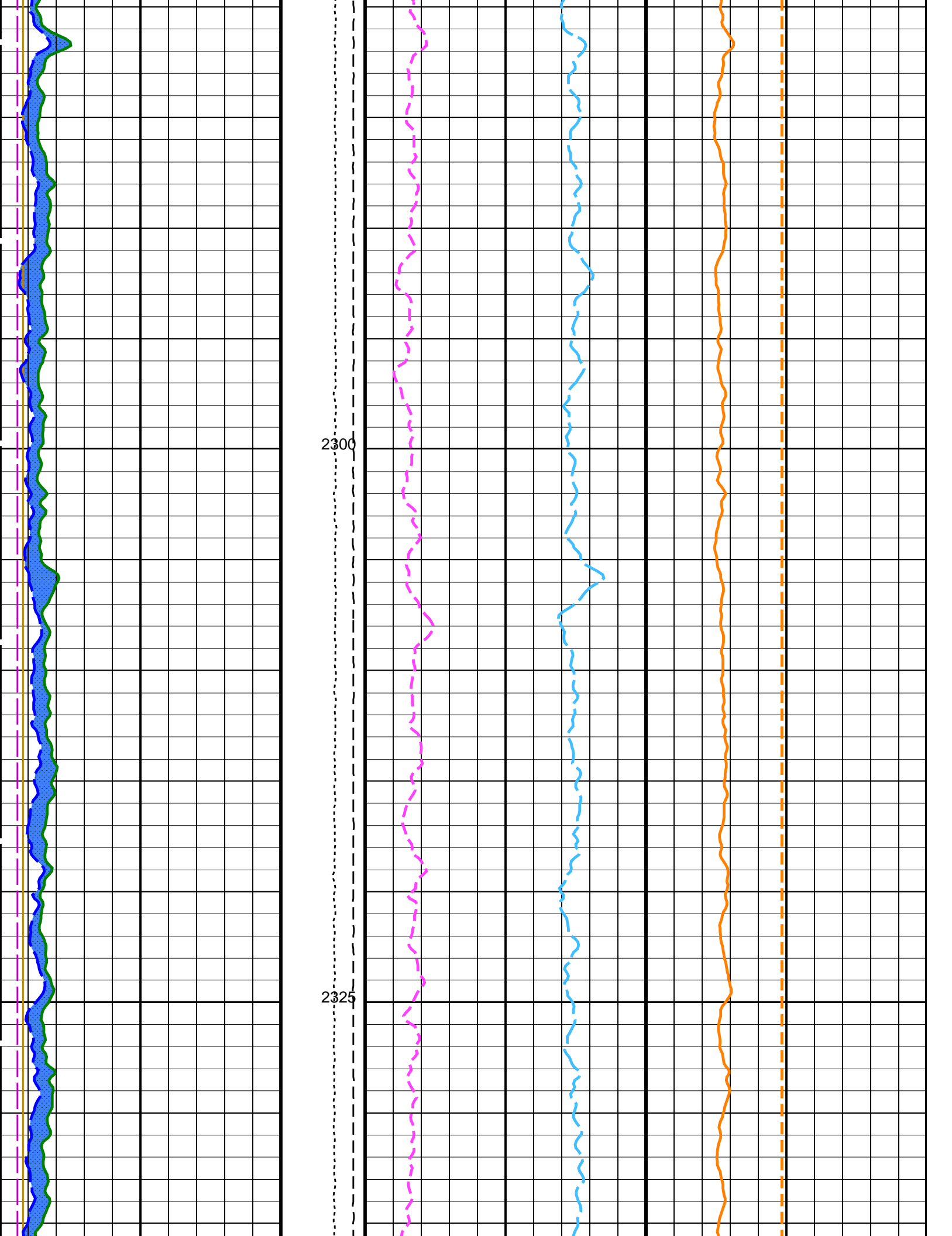




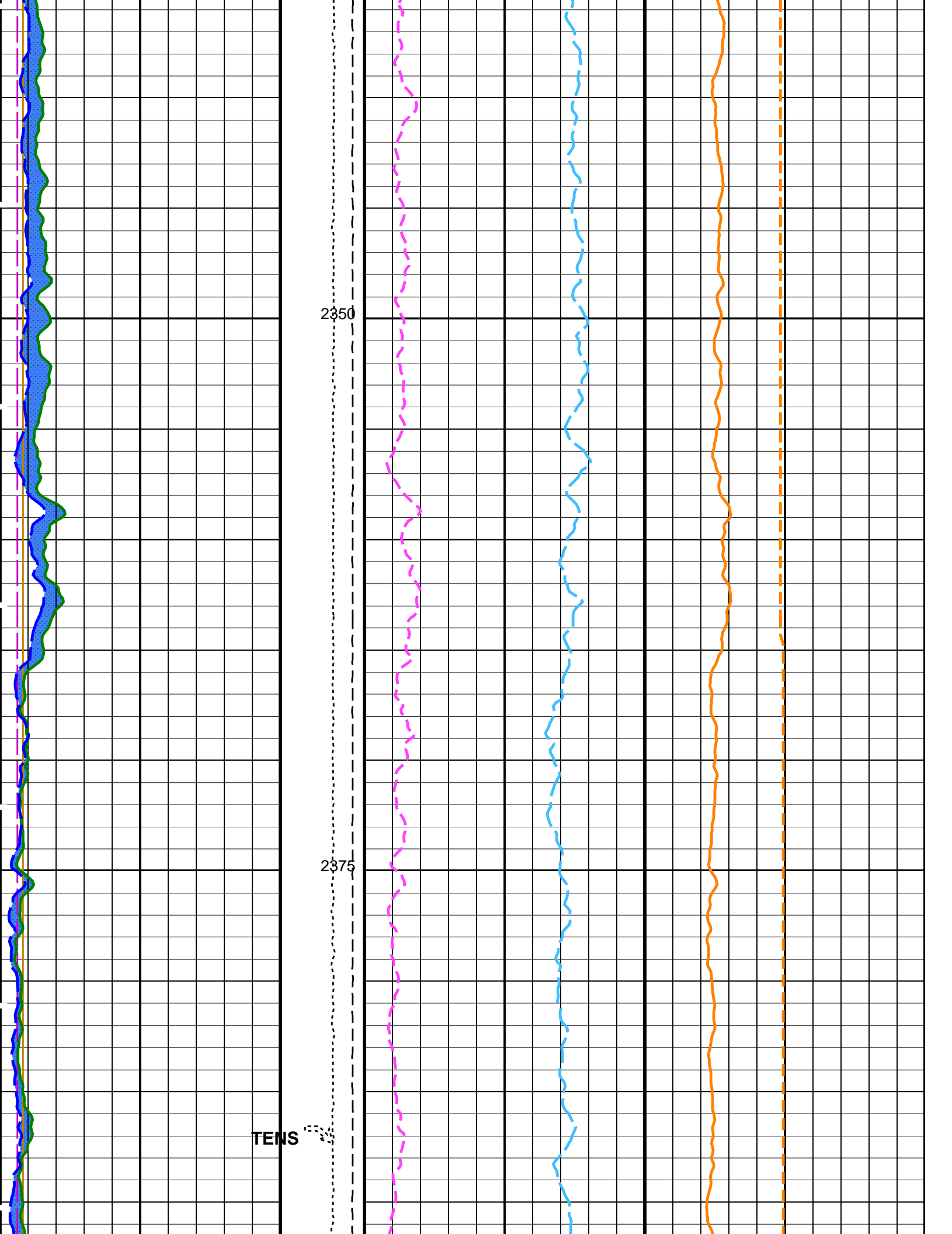


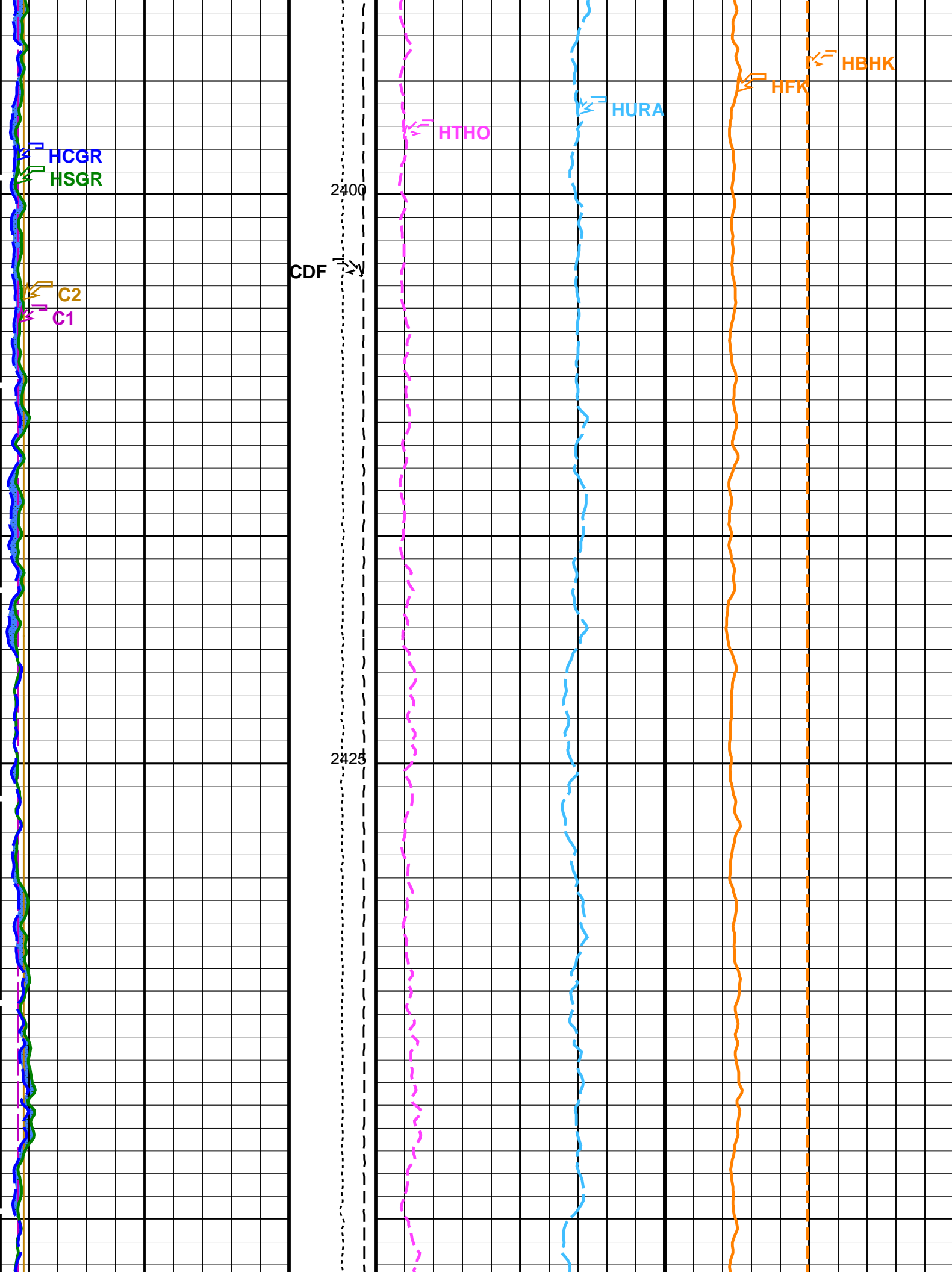


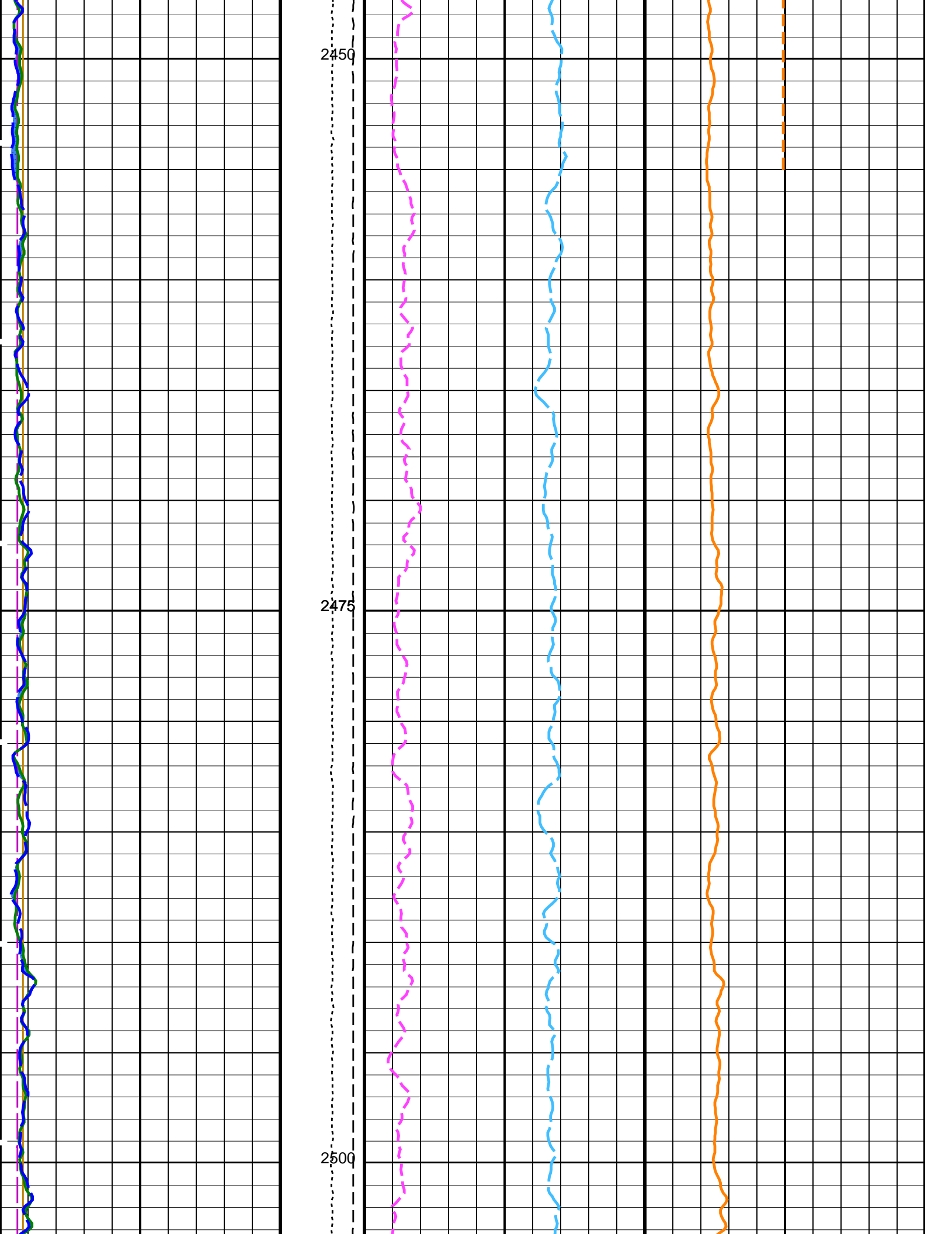


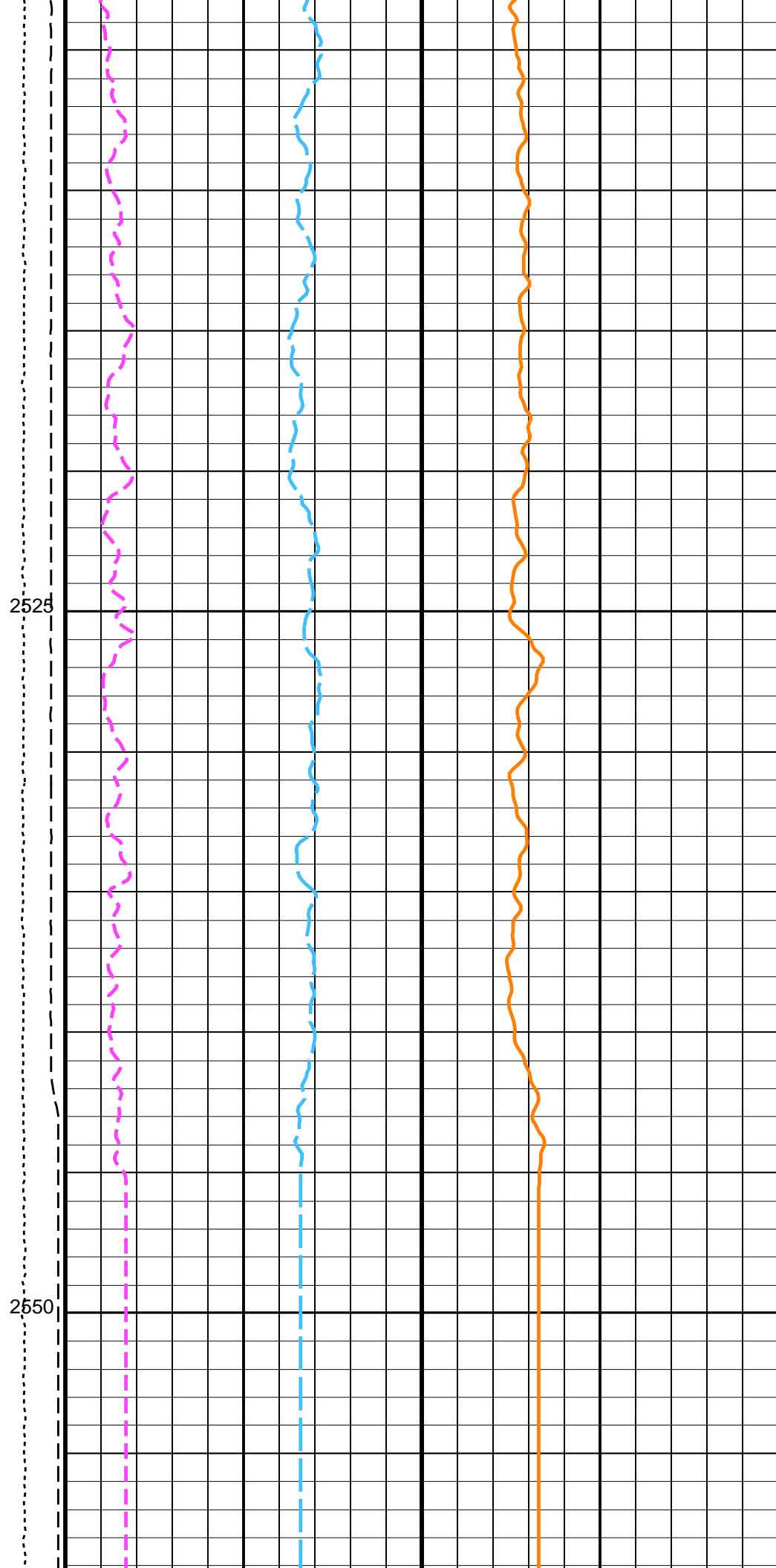
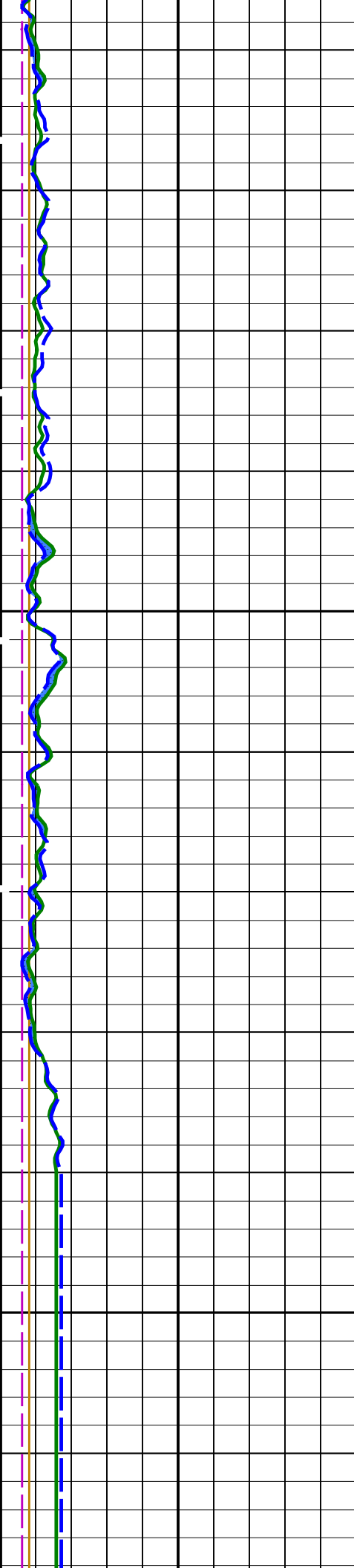


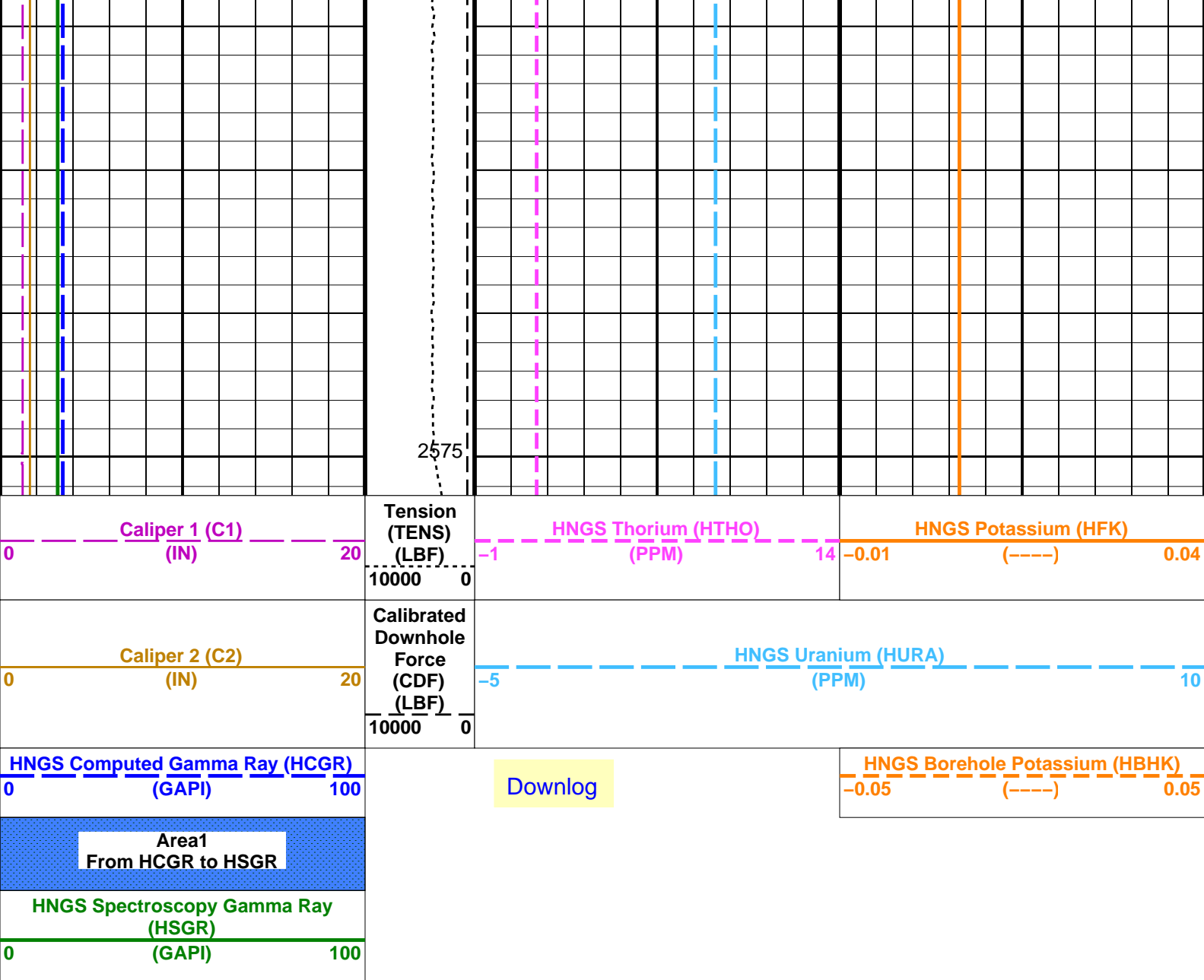












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BHS	DSST-B: Dipole Shear Imager – B	
GCSE	Borehole Status	OPEN
	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	-0.0103607
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	1.01617
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04146
System and Miscellaneous		
BS	Bit Size	9.875 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: 20-Jul-2021 05:48

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					
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Output DLIS Files					
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Input DLIS Files					
DEFAULT	Flip_FMS_DSI_NGS_029LUP	PRODUCER	20-Jul-2021 05:39	2576.3 M	1952.2 M
Output DLIS Files					
DEFAULT	FMS_DSI_NGS_032PUP	FN:53	PRODUCER	20-Jul-2021 05:48	2576.3 M
BACKUP	FMS_DSI_NGS_032PUP	FN:54	PRODUCER	20-Jul-2021 05:48	2576.3 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

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)

10000 (LBF) 0

Sonic Velocity (SVEL)

1000 (M/S) 6000

Caliper 2 (C2)

0 (IN) 20

Caliper 1 (C1)

0 (IN) 20

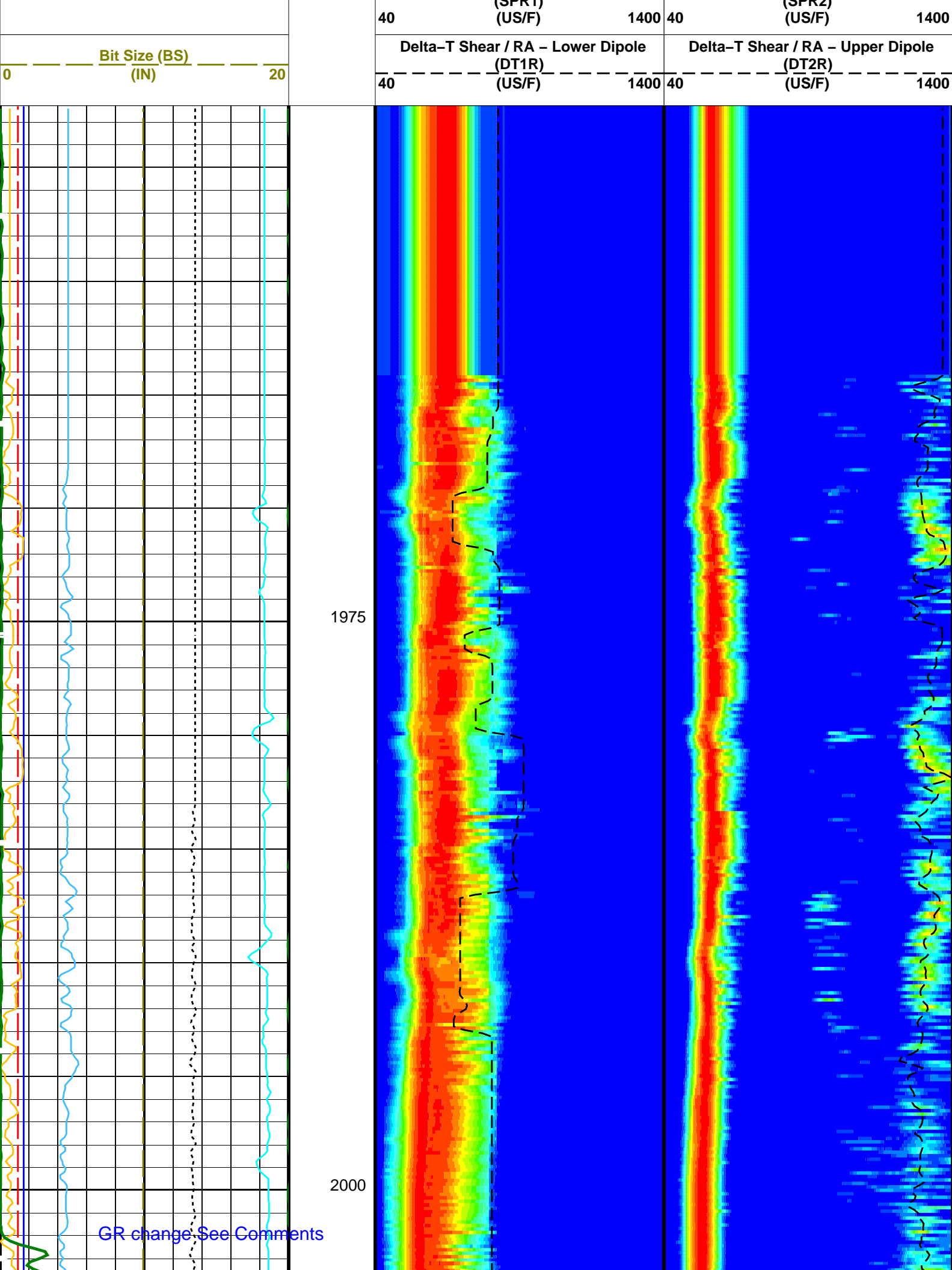
Downlog

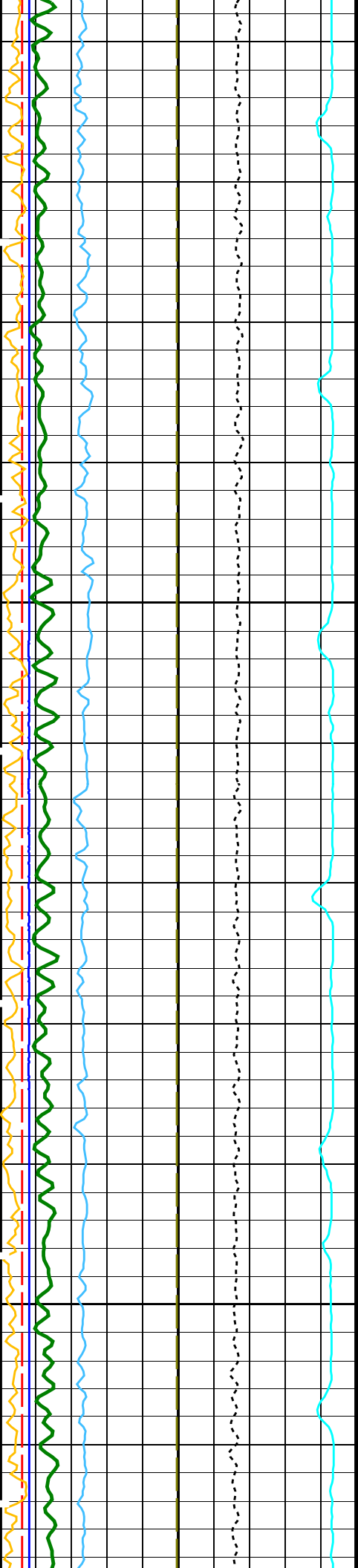
MinAmplitudeMax

Rec.Array L.Dipole Slow Proj. CVDL (SPP1)

MinAmplitudeMax

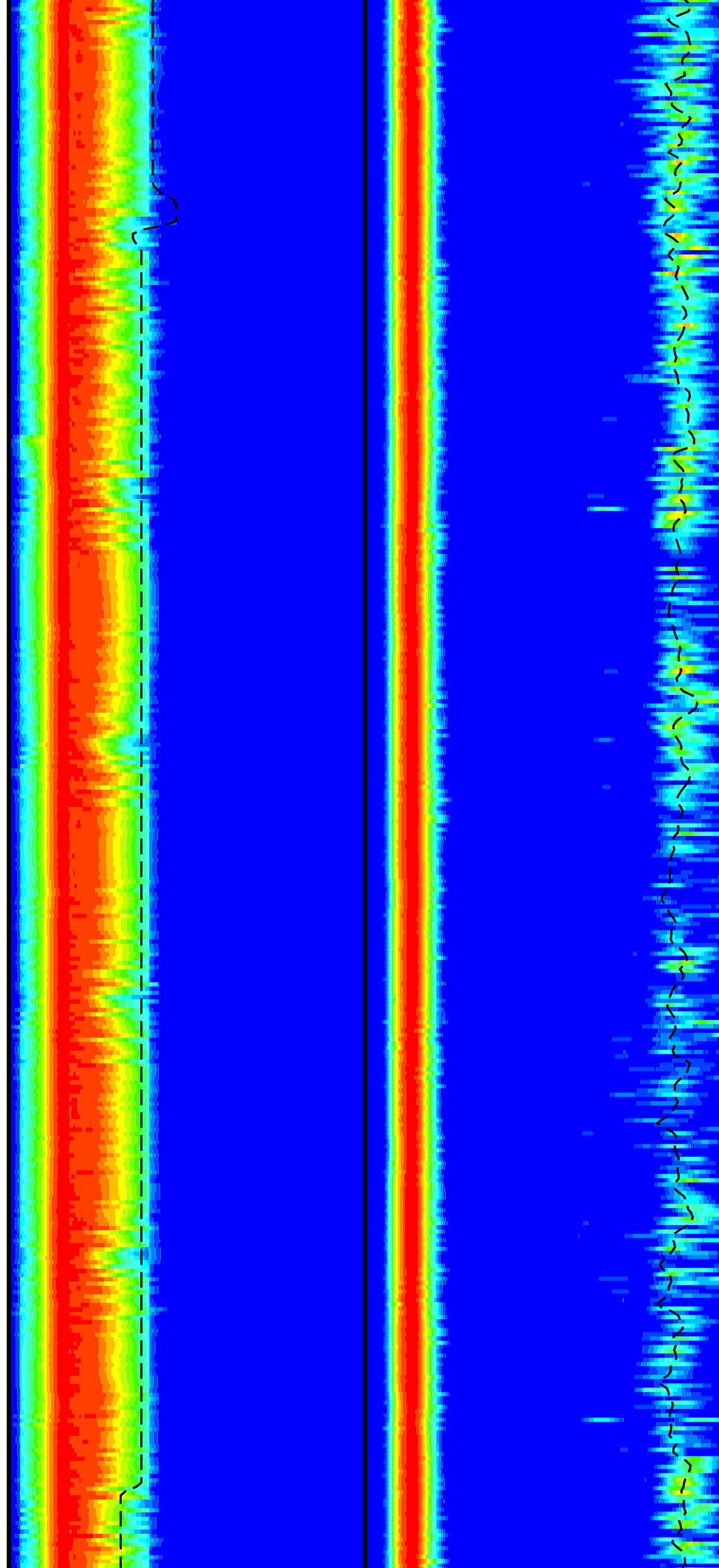
Rec.Array U.Dipole Slow Proj. CVDL (SPP2)



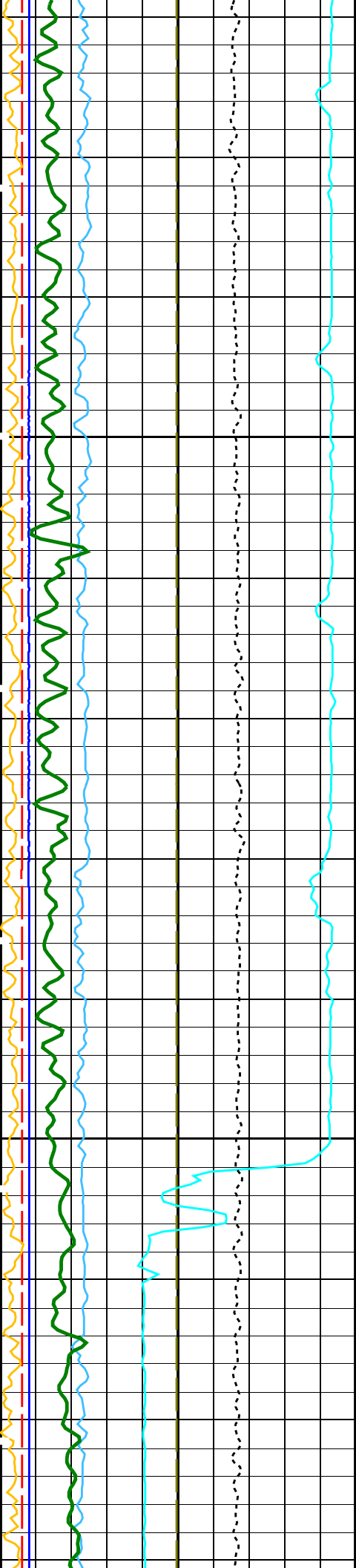


2025

2050

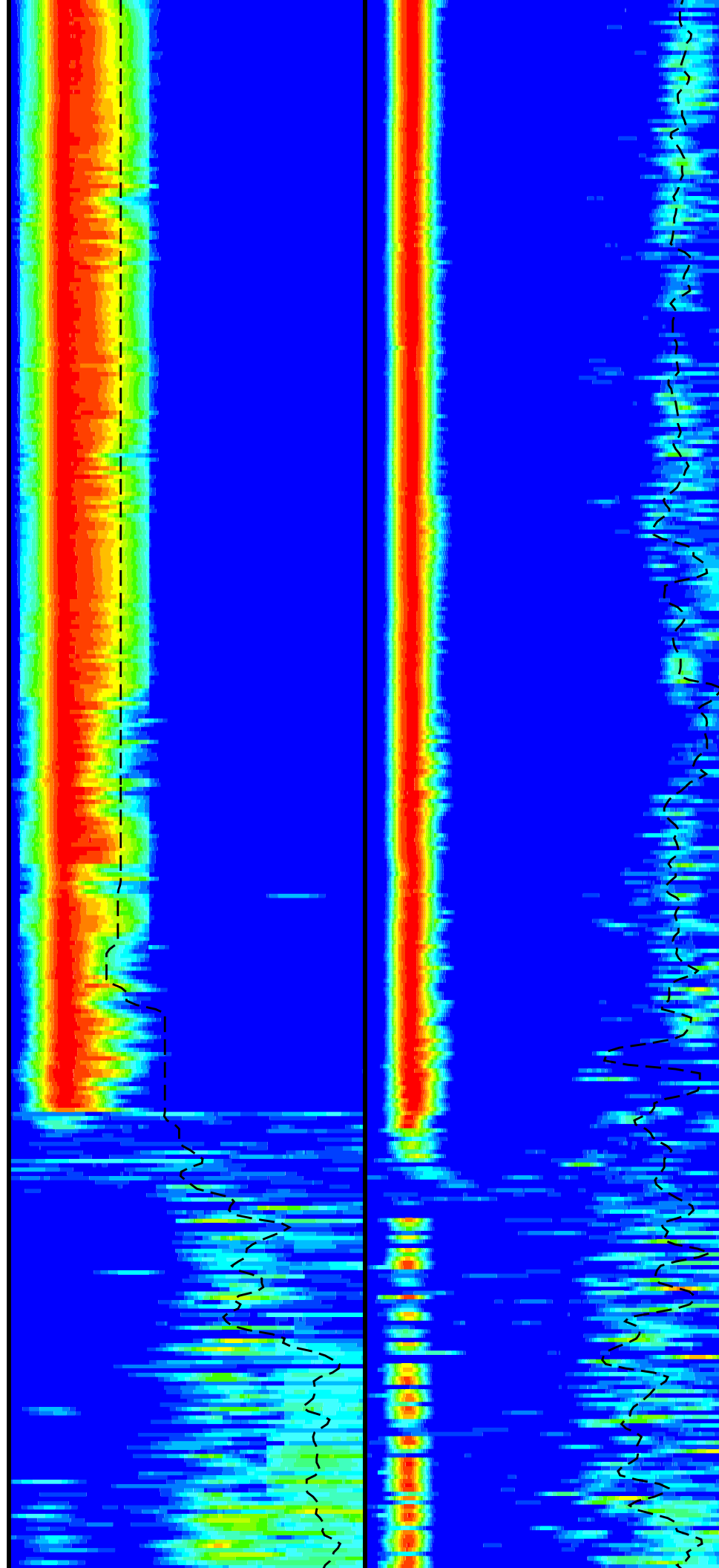


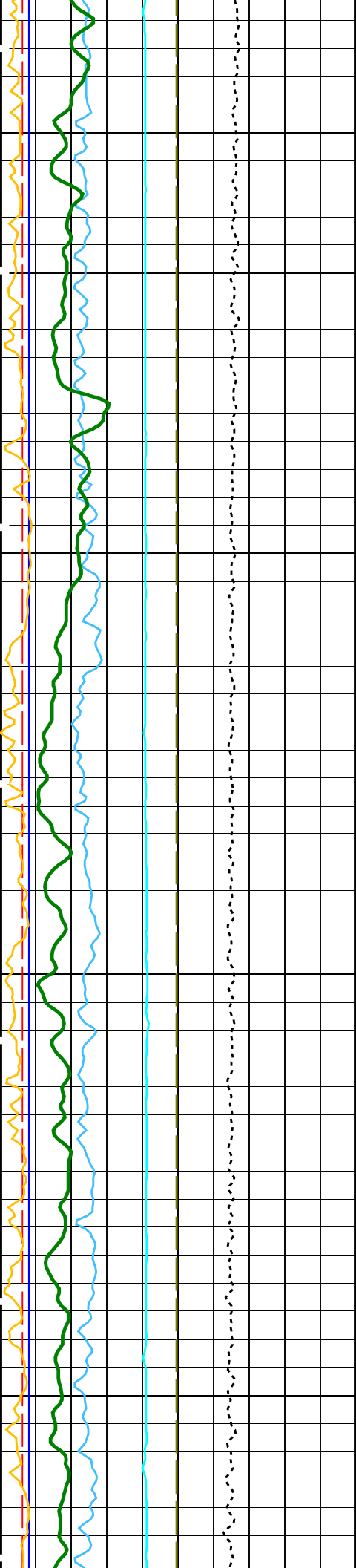




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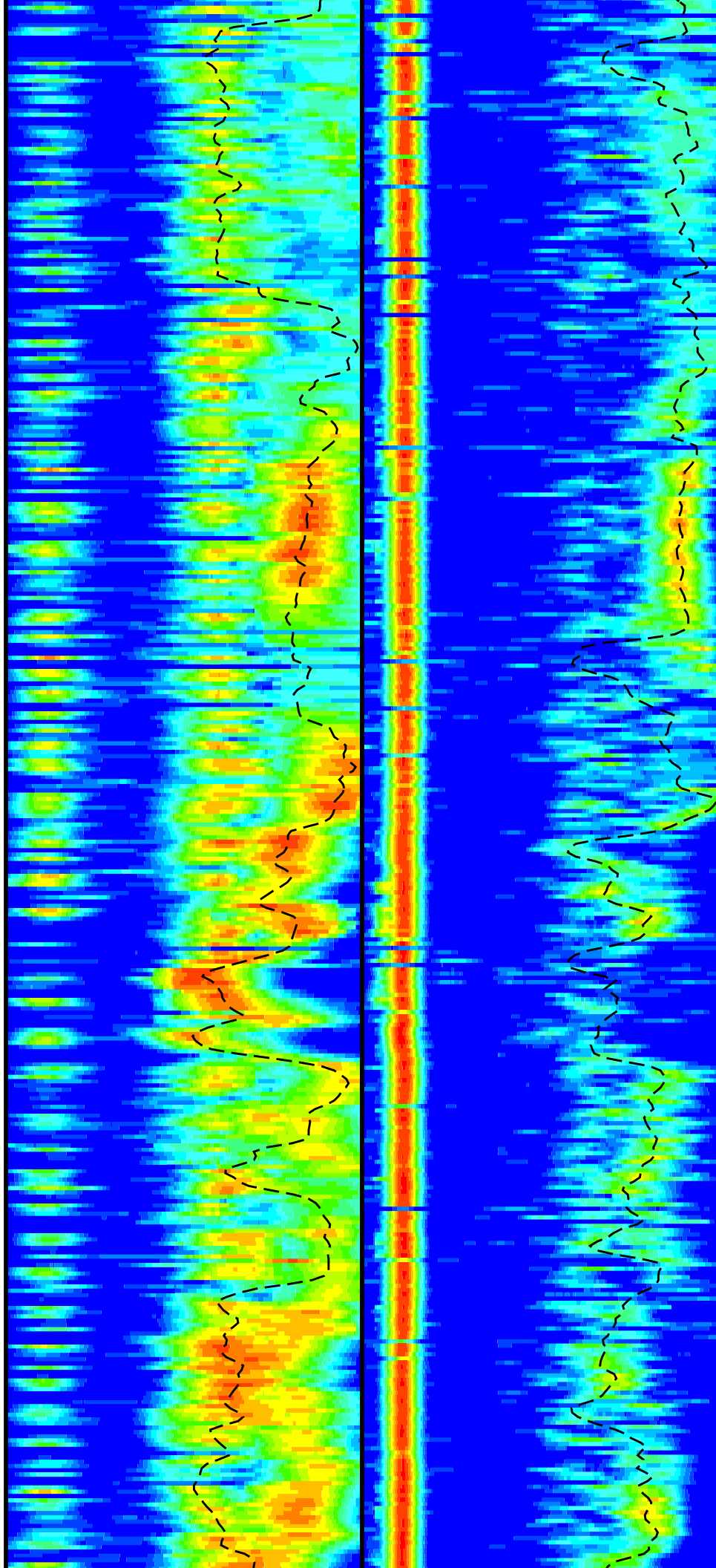
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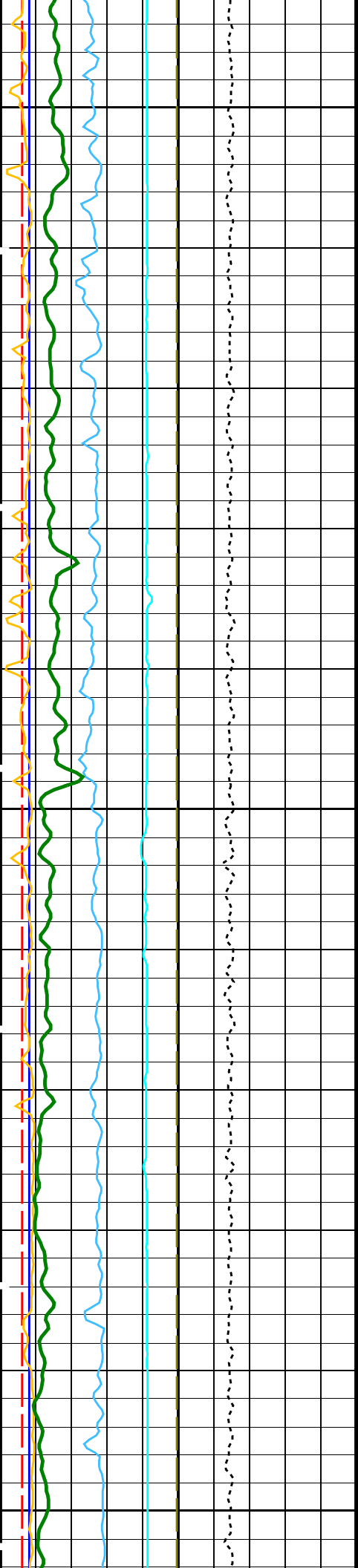




2125

2150

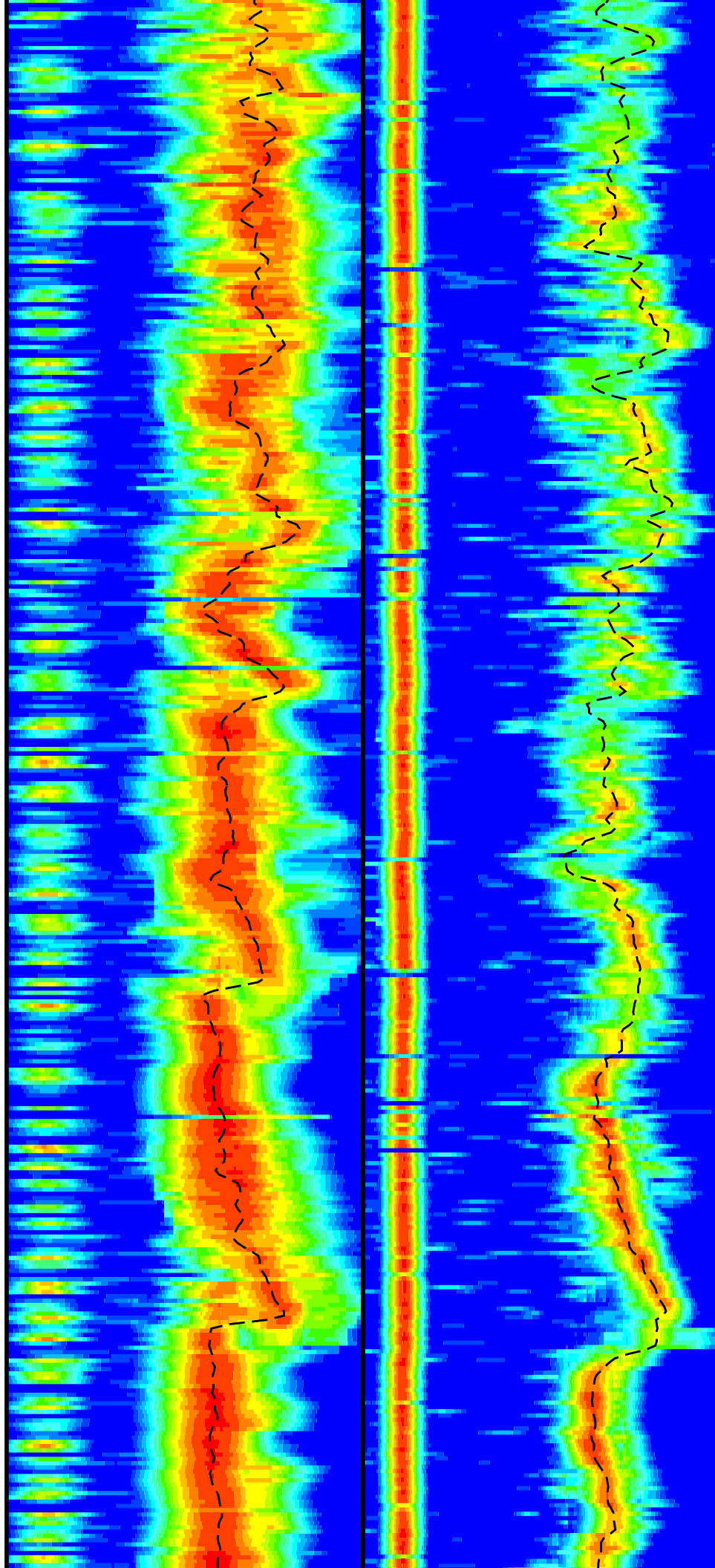


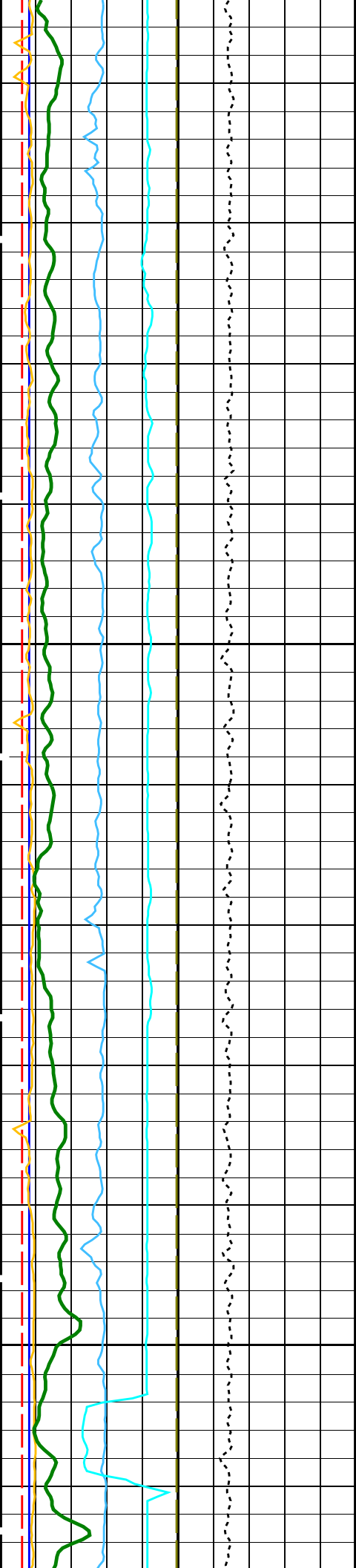


2175

2200

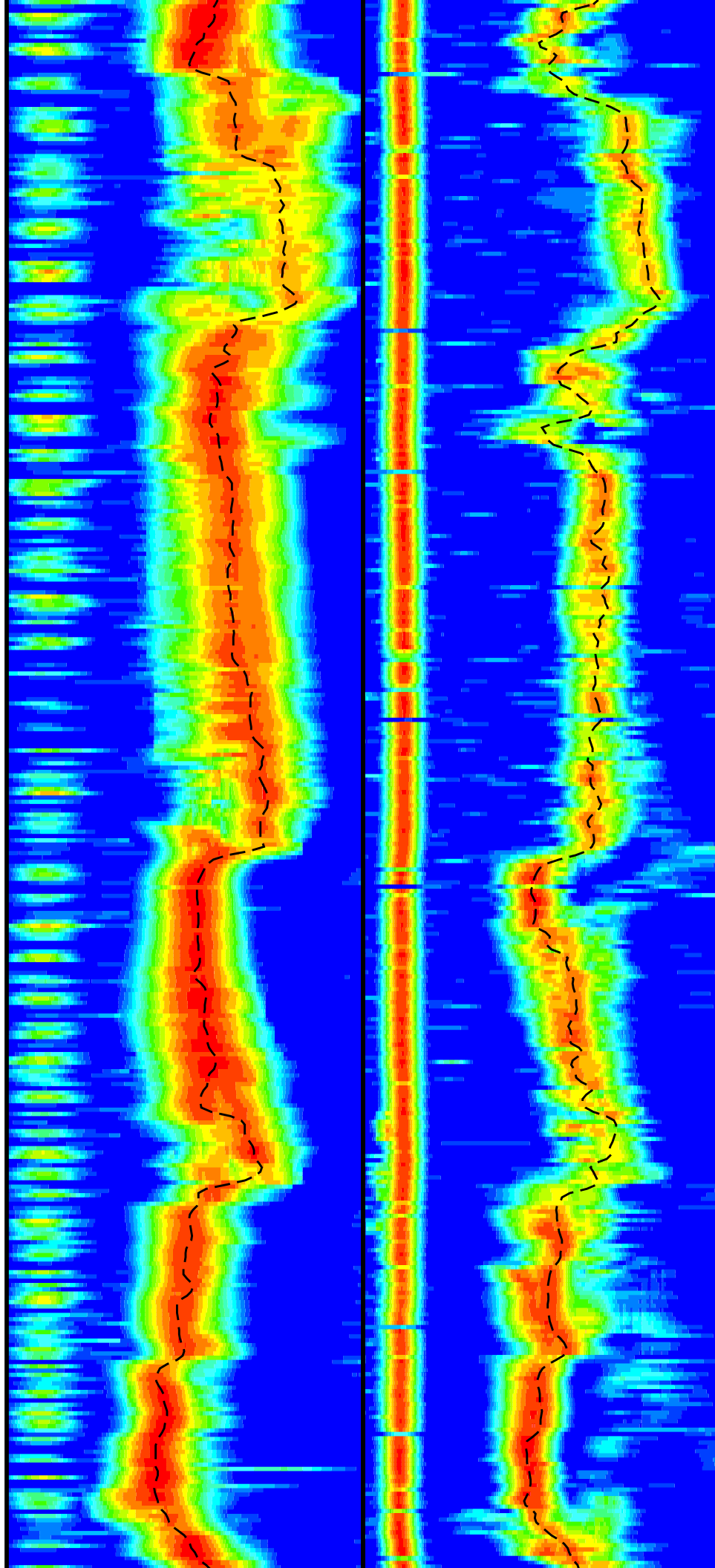
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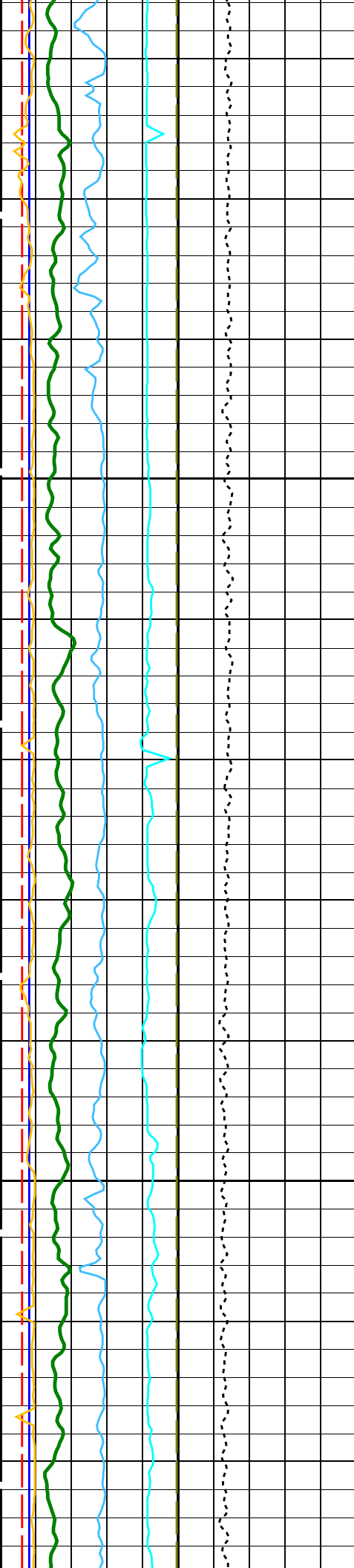




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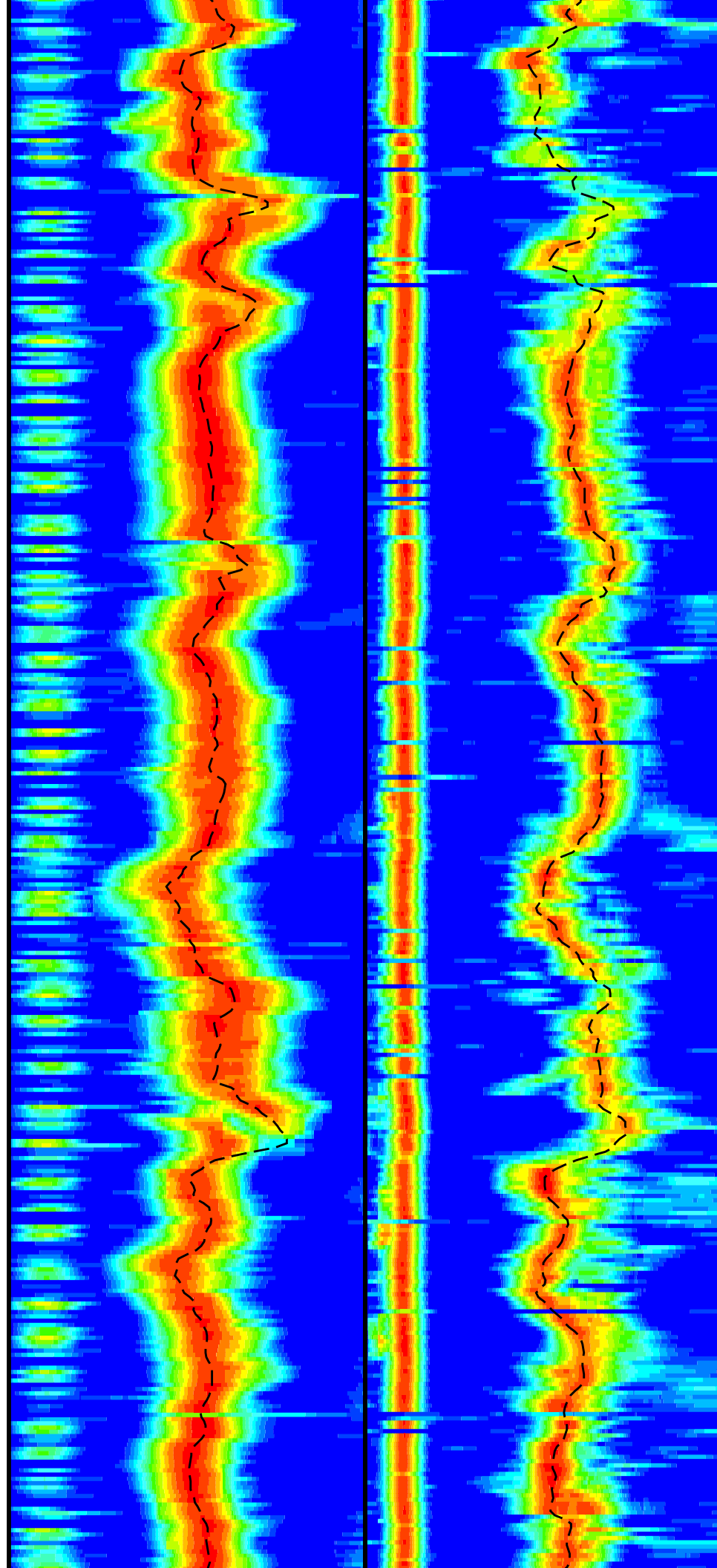
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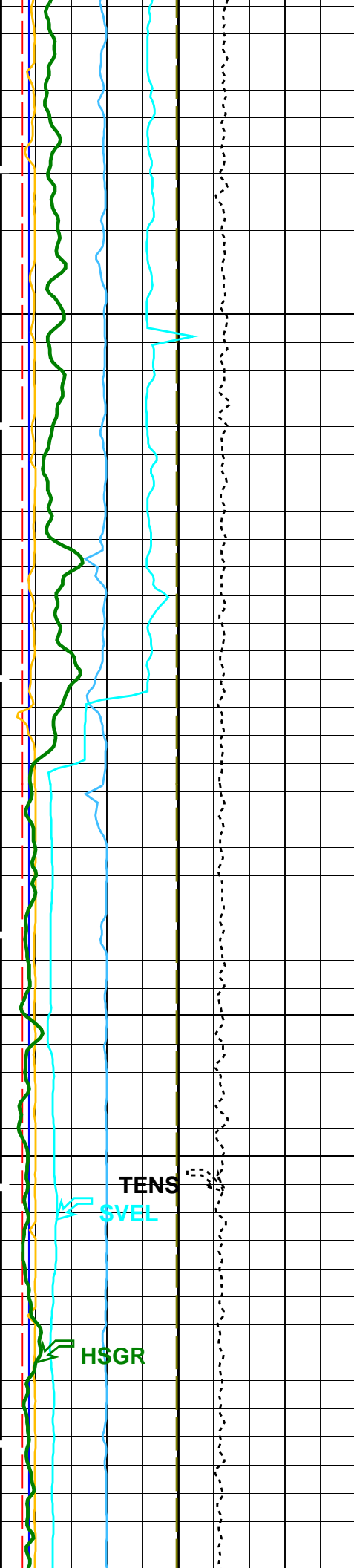




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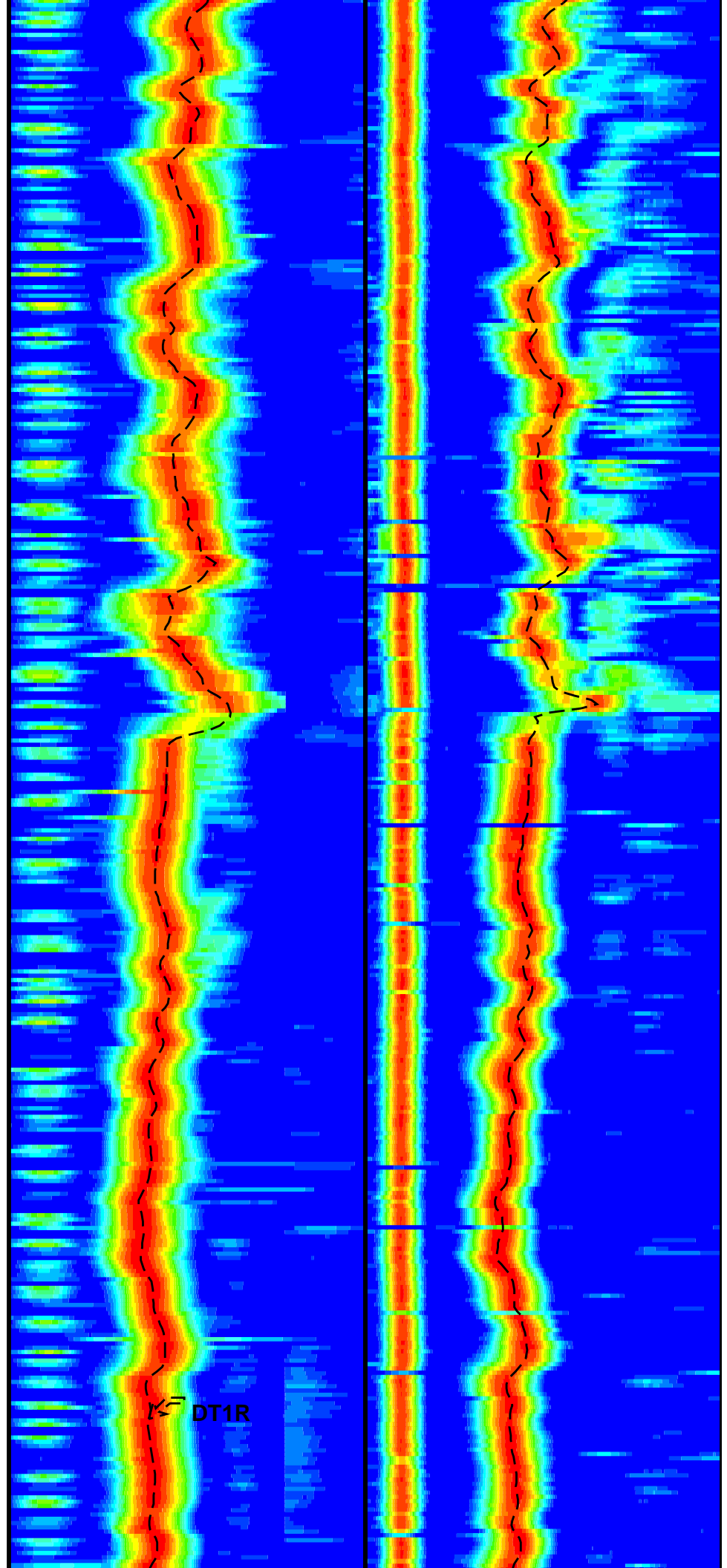
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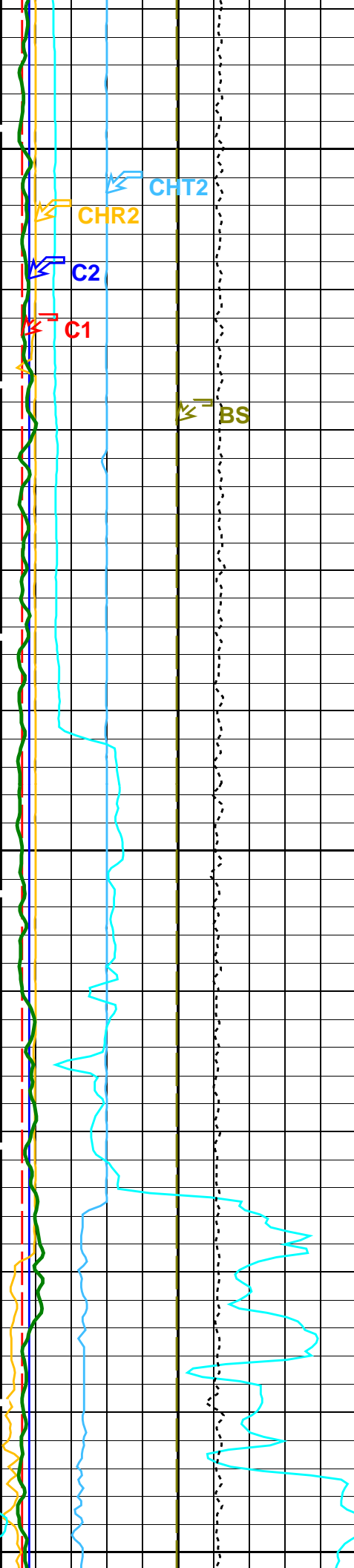


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2375



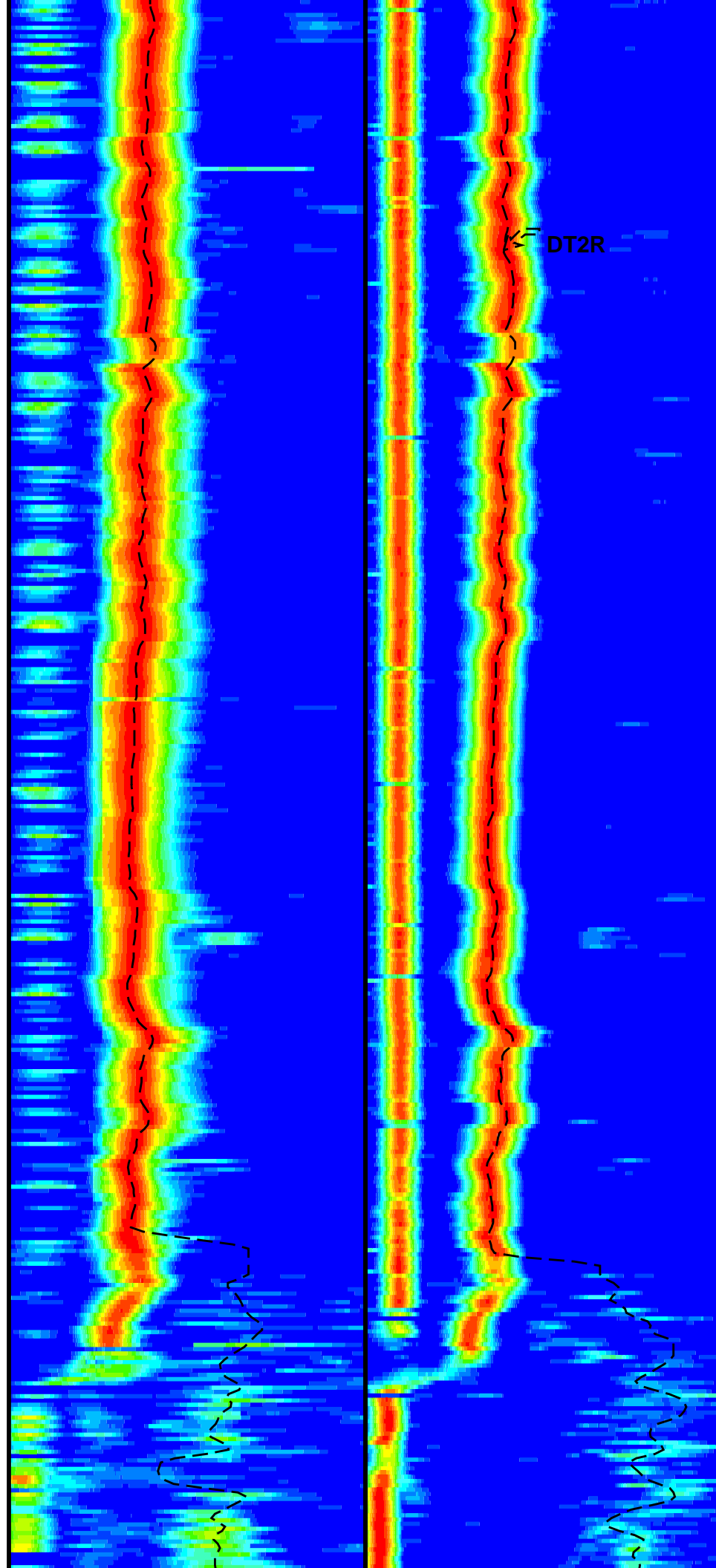


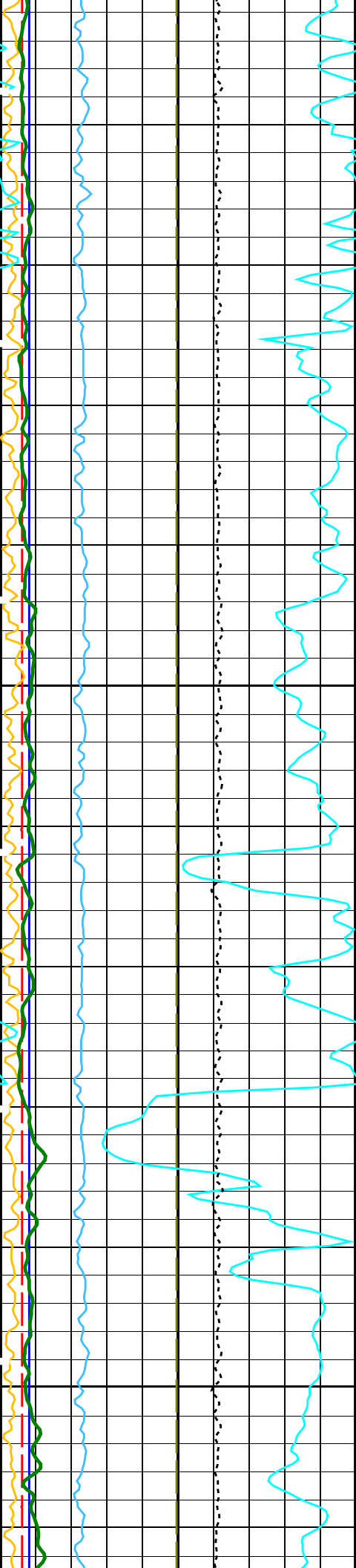


2400

2425

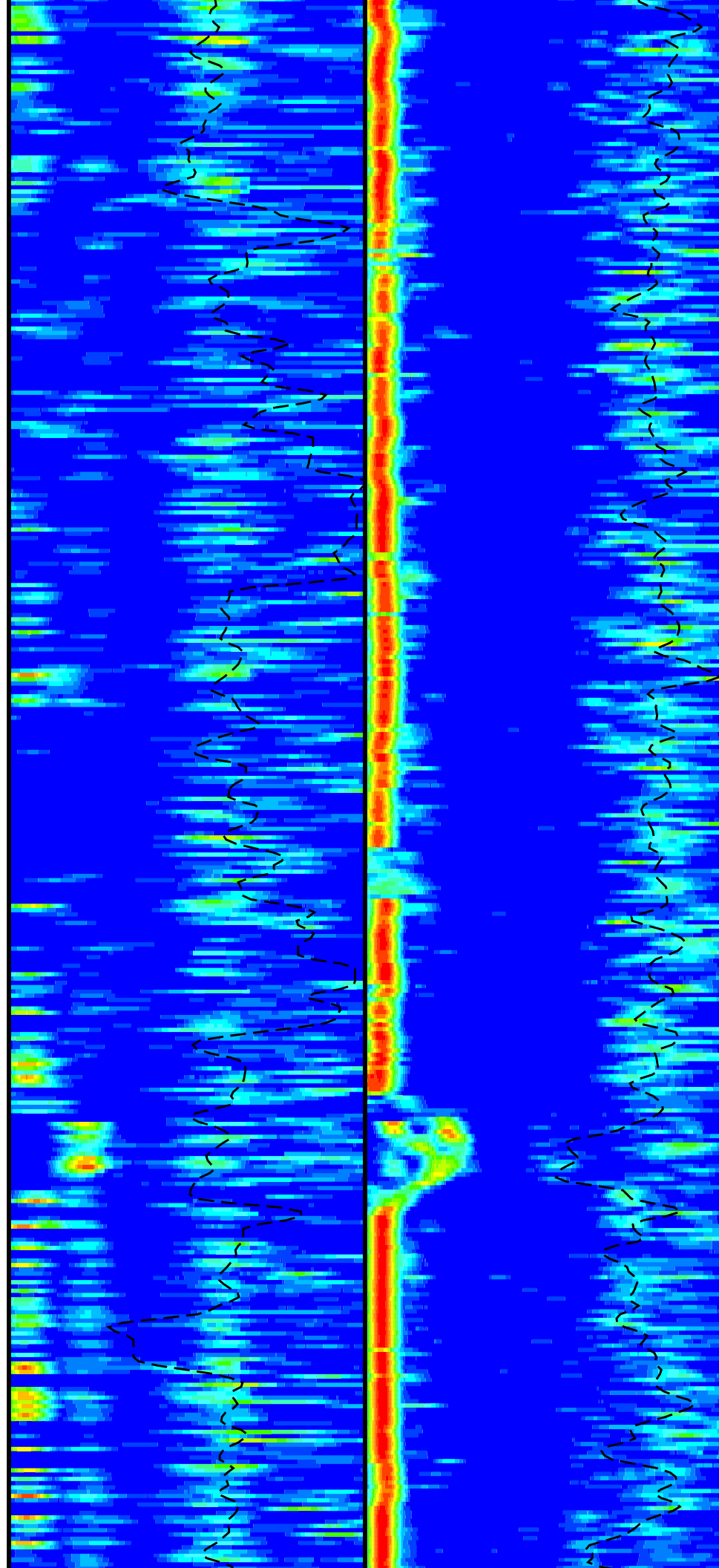
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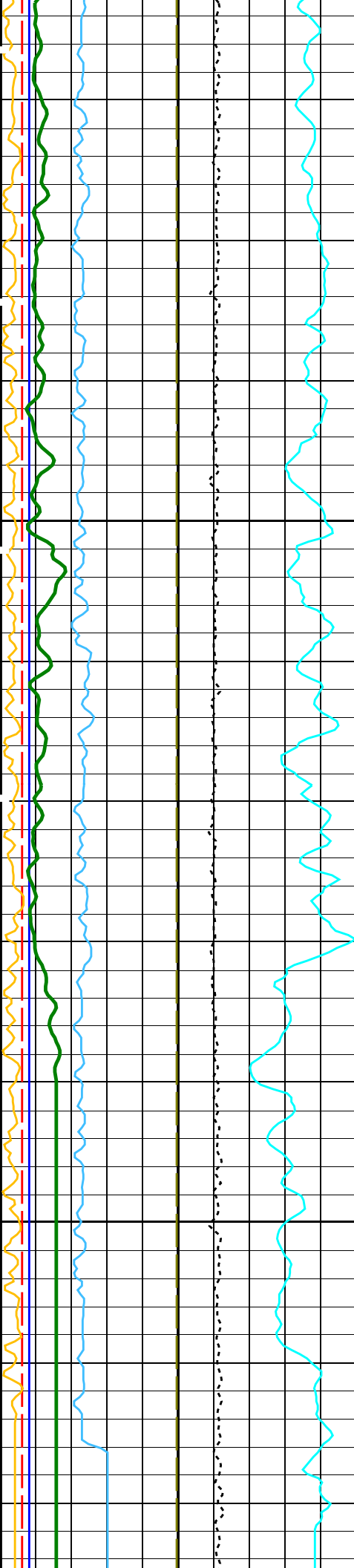


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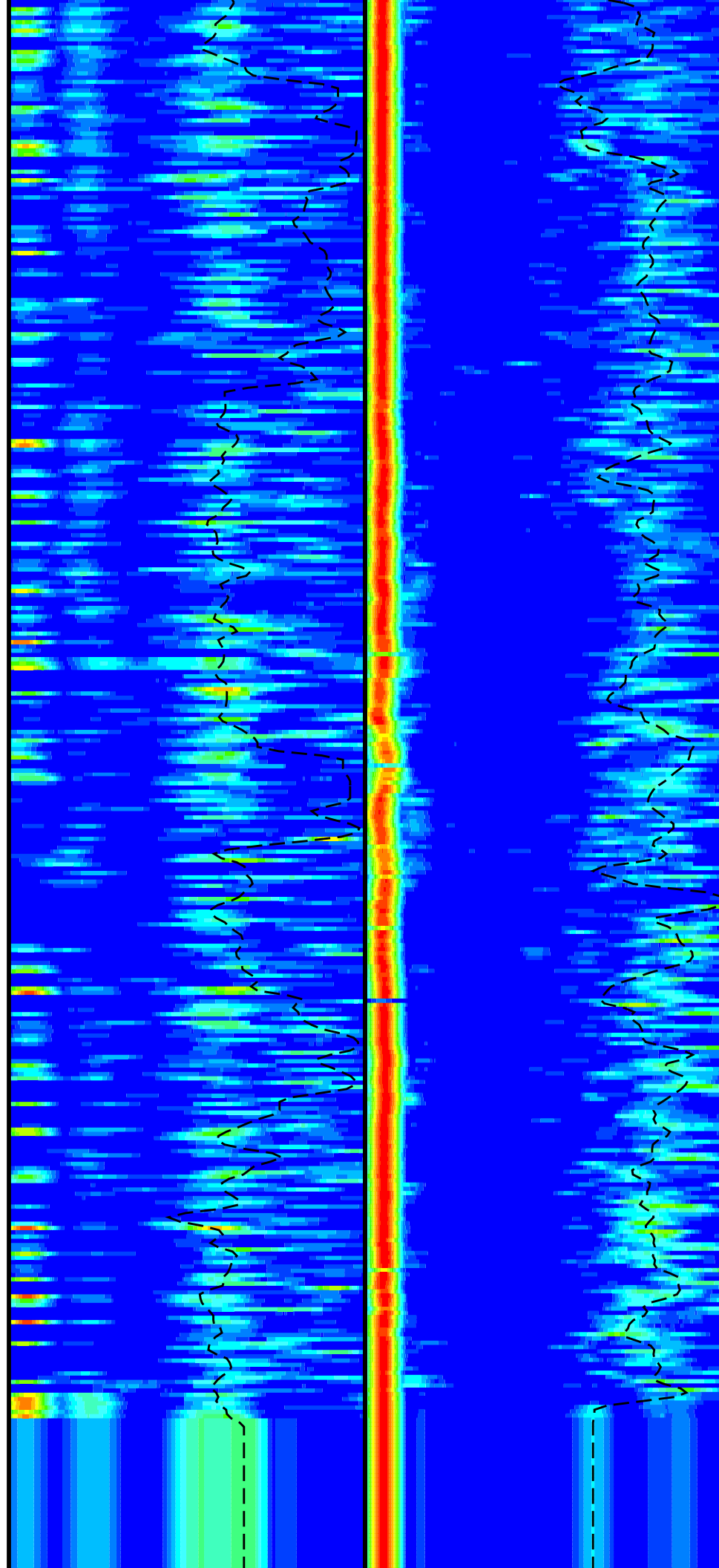


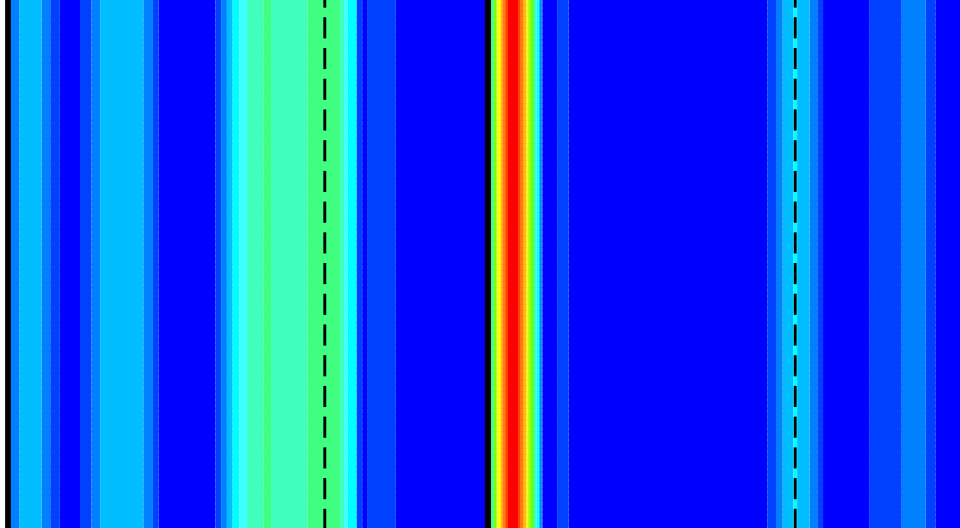
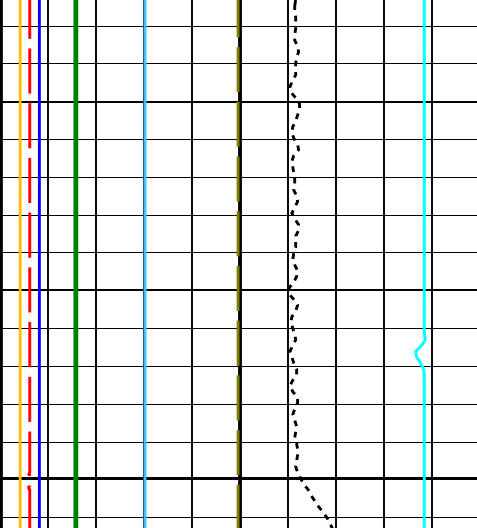






2525

2550





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

Delta-T Shear / RA – Lower Dipole (DT1R) (US/F)			Delta-T Shear / RA – Upper Dipole (DT2R) (US/F)		
40		1400	40		1400
Min Amplitude Max 			Min Amplitude Max 		
Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F)			Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)		
40		1400	40		1400

## Downlog

## PIP SUMMARY

**Time Mark Every 60 S**

## Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
DDE1	Digitizing Delay 1	0	US
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	400	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	
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
HNGB–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGB Detector 1 Barite Constant	1	
BAR2	HNGB Detector 2 Barite Constant	1	
BHK	HNGB 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	HNGB Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGB Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGB Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGB Borehole Potassium Running Average	–0.0103607	
HALF	HNGB Alpha Filter Length	60	IN
HCRB	HNGB Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGB Processing Enable	YES	
S1BI	HNGB Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGB Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGB Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGB Detector 1 Variable Barite Factor Running Average	1.01617	
VBA2	HNGB Detector 2 Variable Barite Factor Running Average	1.04146	
System and Miscellaneous			
BS	Bit Size	9.875	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: 20–Jul–2021 05:48

## OP System Version: 19C0–187

MEST–B      19C0–187      DTA–A      19C0–187  
DSST\_B      19C0\_187      HNGB\_B      19C0\_187

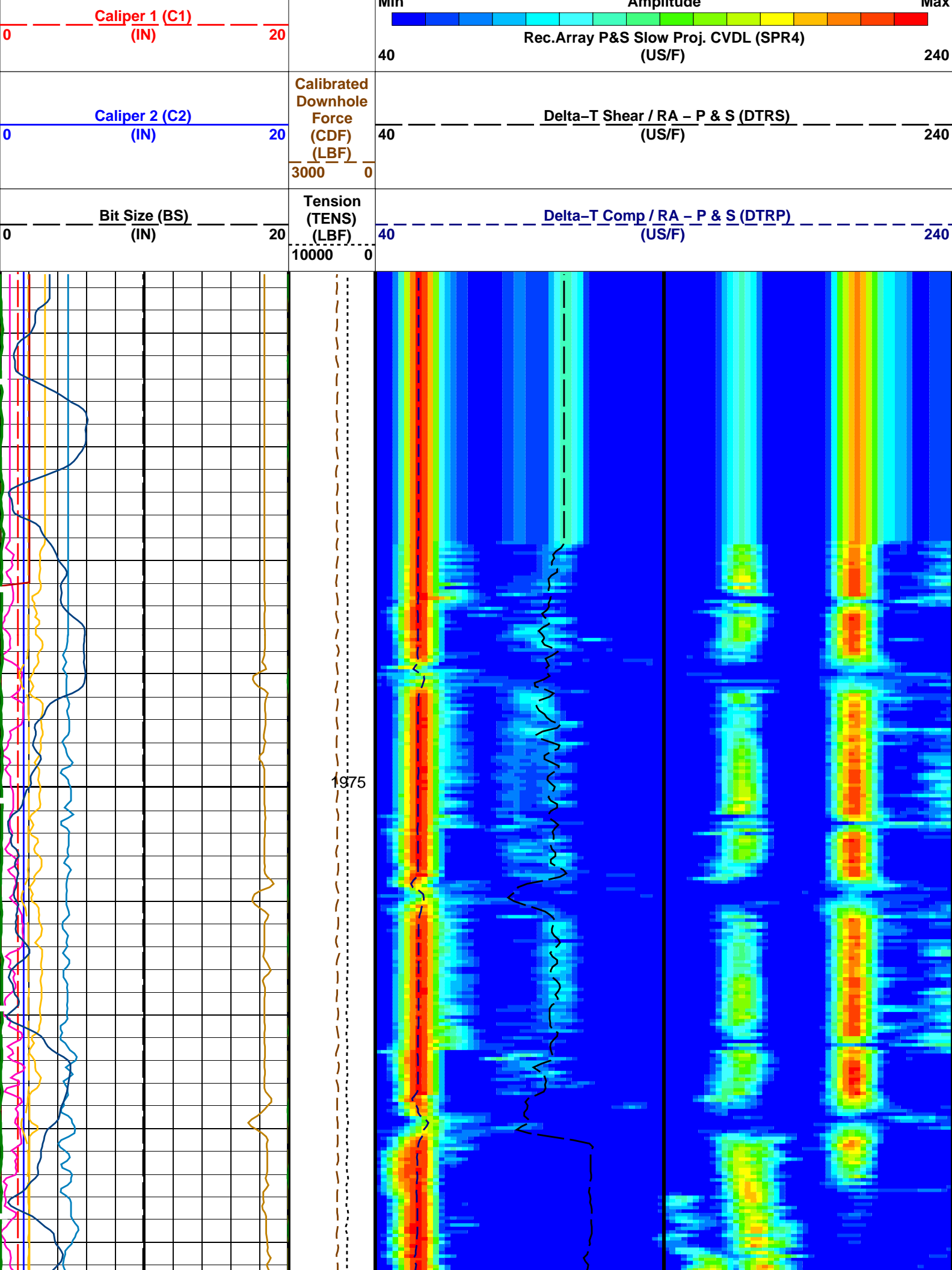
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HNGS-BA	19C0-187	DTC-H	19C0-187
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Output DLIS Files			
DEFAULT	FMS_DSI_NGS_032PUP	FN:53 PRODUCER	20-Jul-2021 05:48
BACKUP	FMS_DSI_NGS_032PUP	FN:54 PRODUCER	20-Jul-2021 05:48

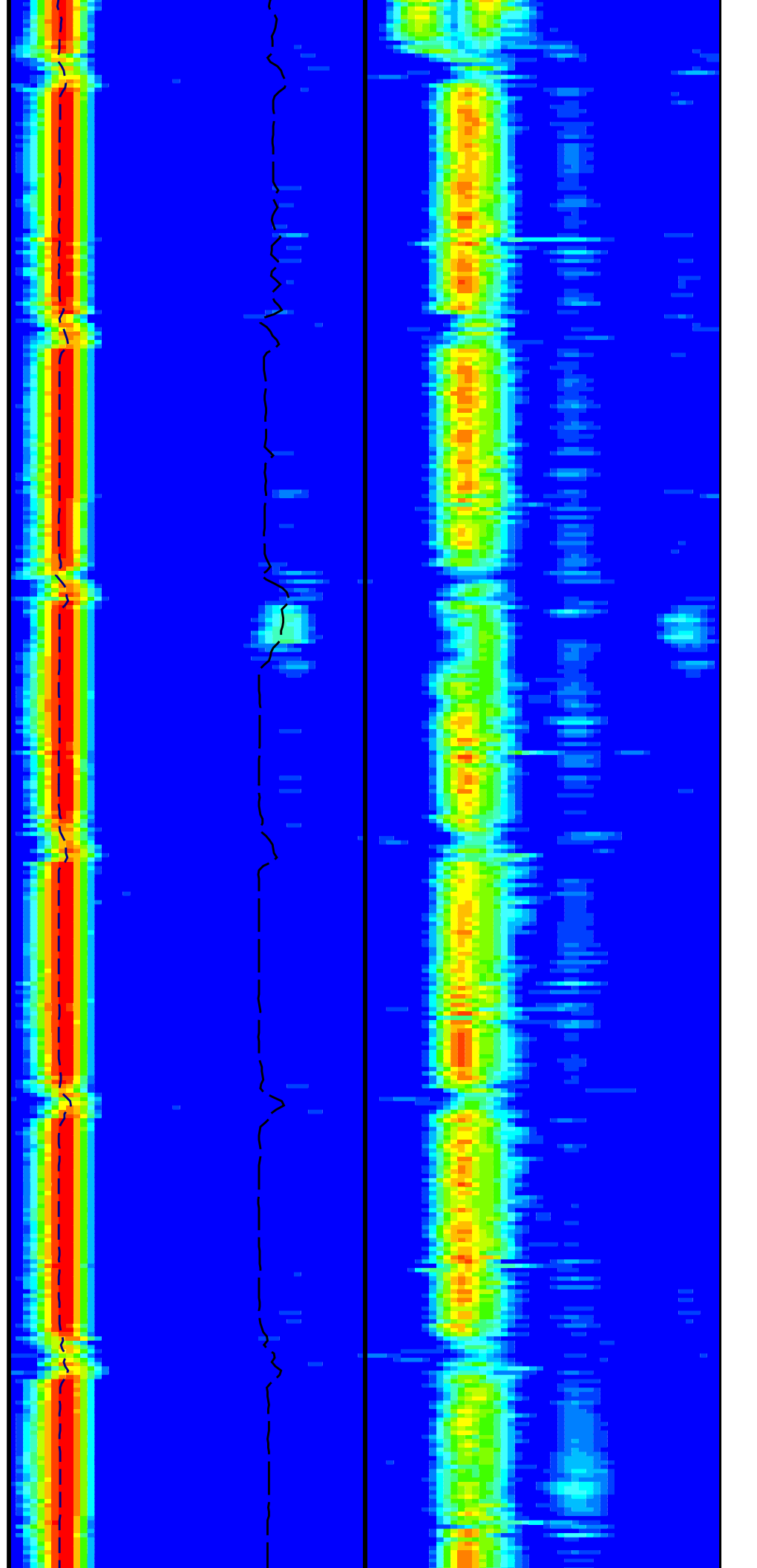
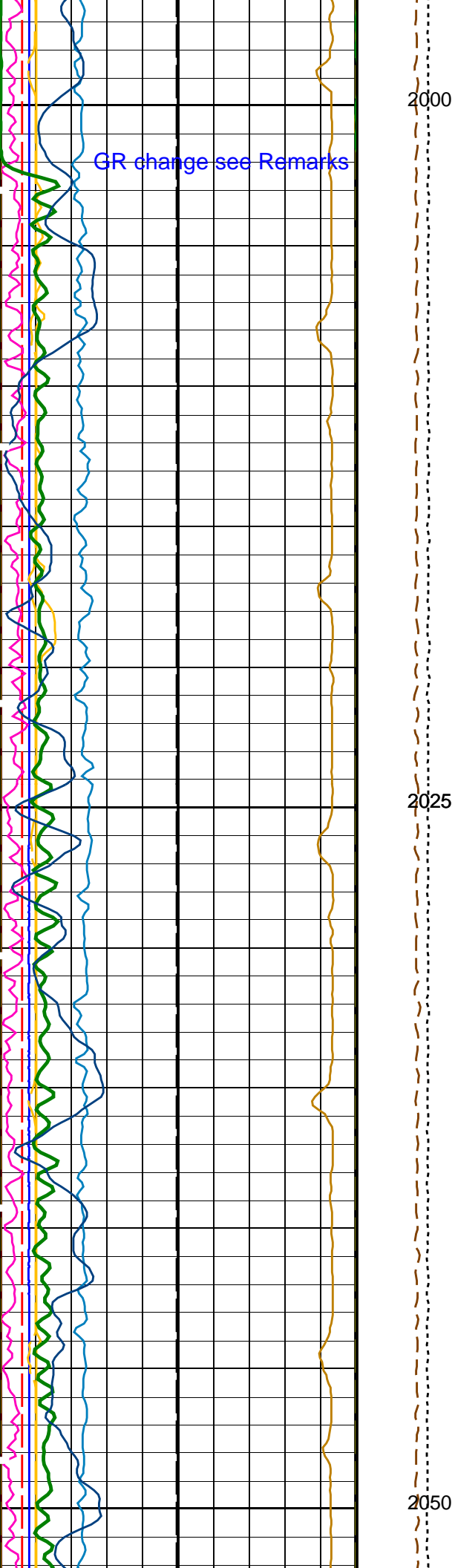
Company: International Ocean Discovery Program				Well: Expedition 395C, Site U1562B		
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Output DLIS Files						
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BACKUP	FMS_DSI_NGS_032PUP	FN:54	PRODUCER	20-Jul-2021 05:48	2576.3 M	1952.2 M
OP System Version: 19C0-187						
MEST-B	19C0-187	DTA-A	19C0-187			
DSST-B	19C0-187	HNGC-B	19C0-187			
HNGS-BA	19C0-187	DTC-H	19C0-187			

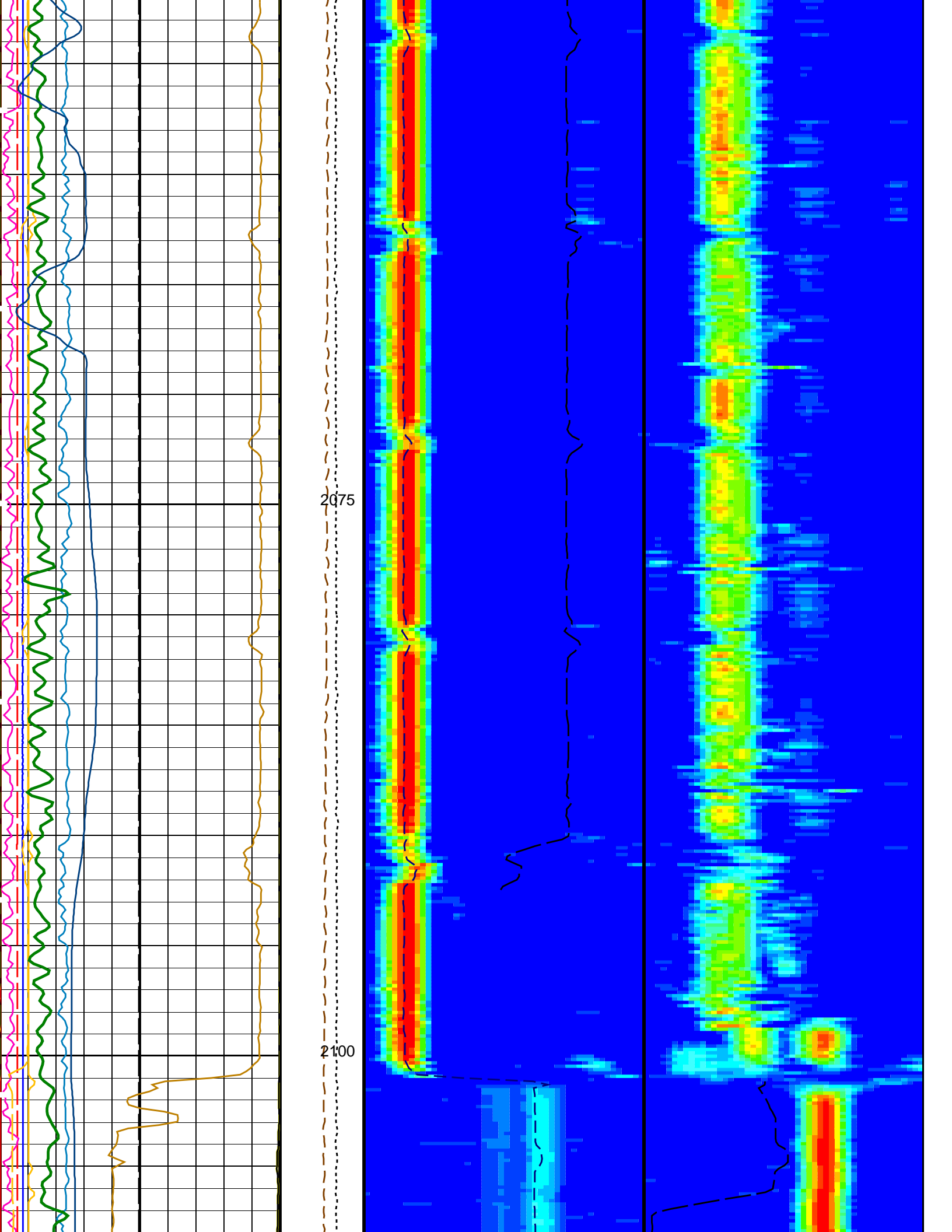
PIP SUMMARY	
Time Mark Every 60 S	

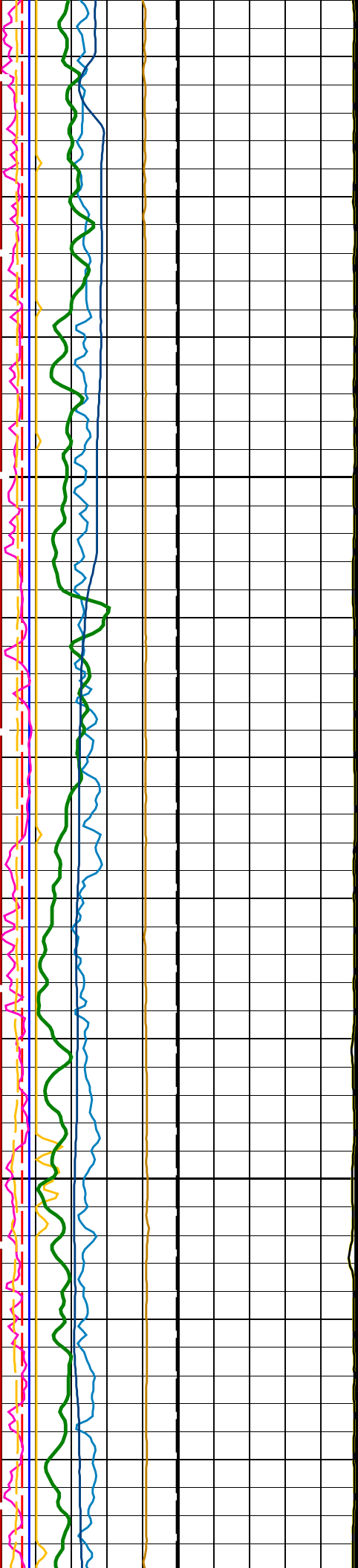
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA – P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / TA – Upper Dipole (CHT2)		
-2	(----)	8
Peak Coherence / RA – 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

Download



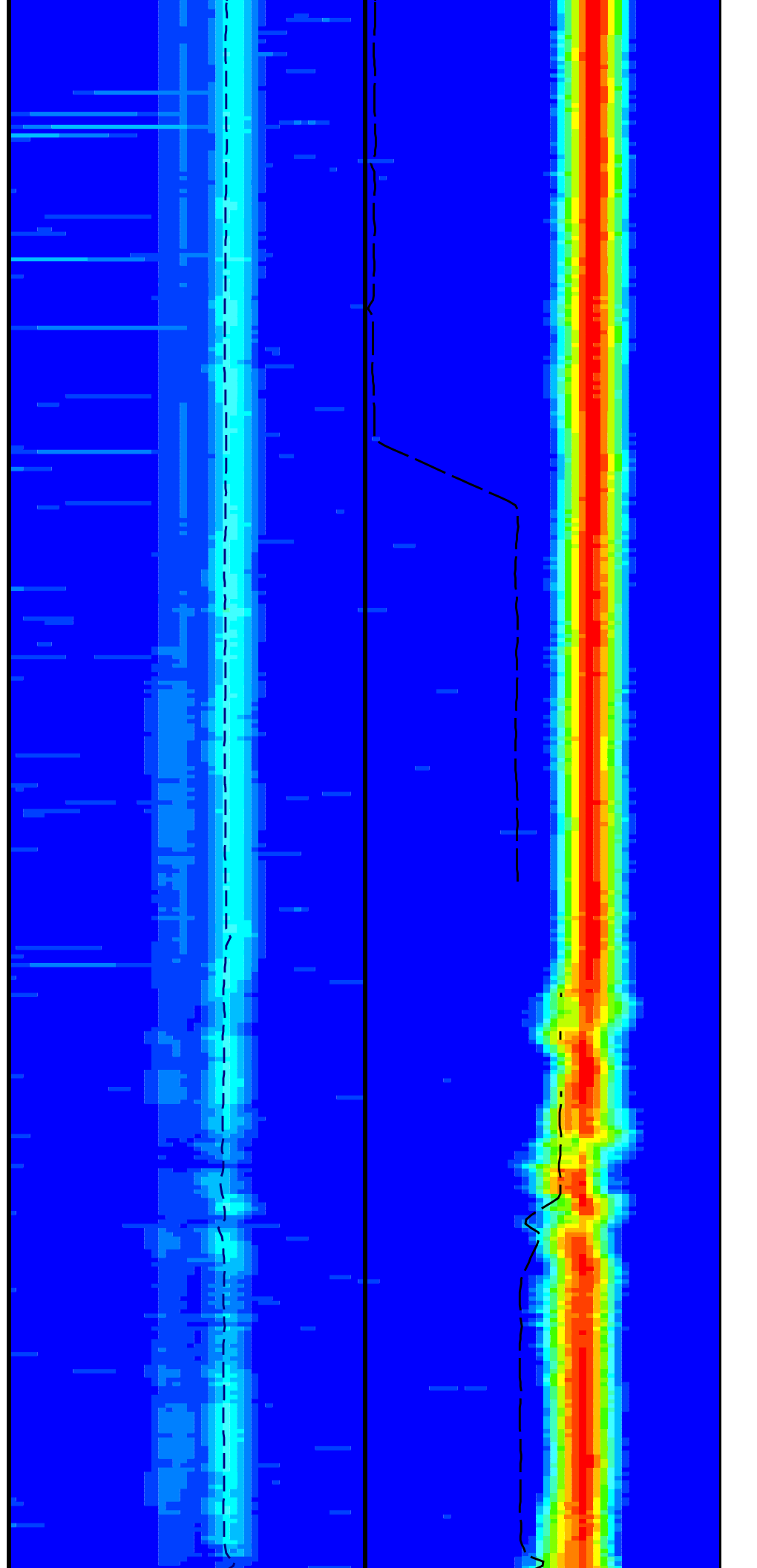




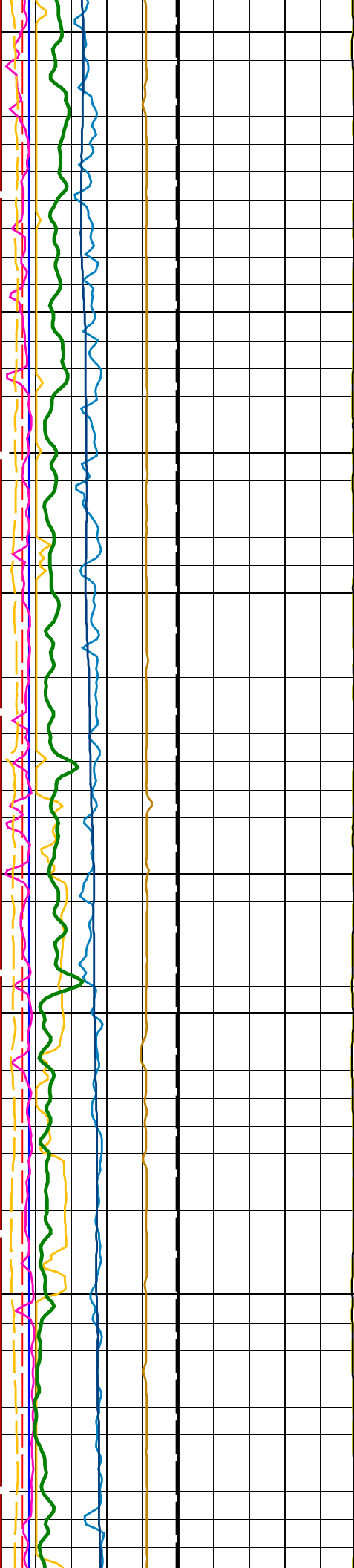


2125

2150

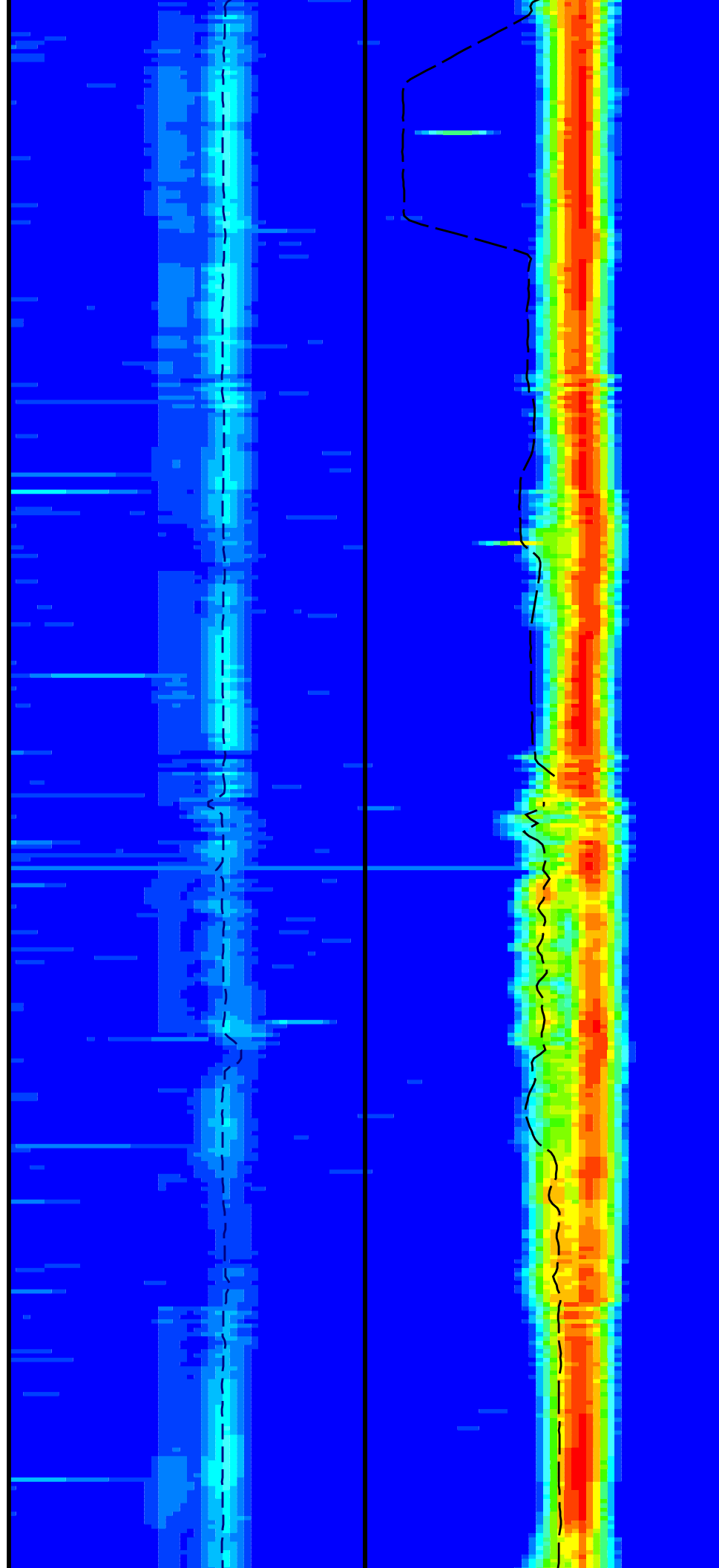


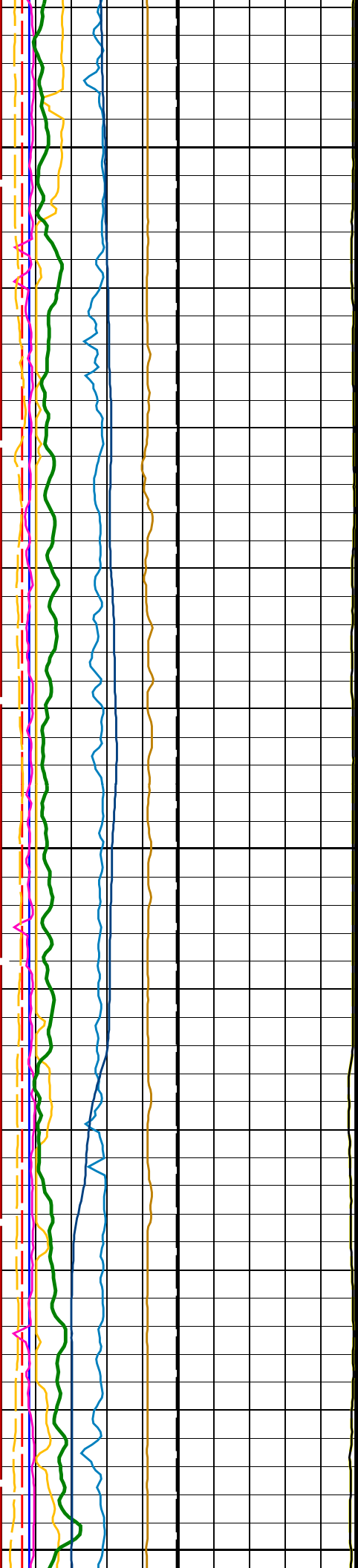




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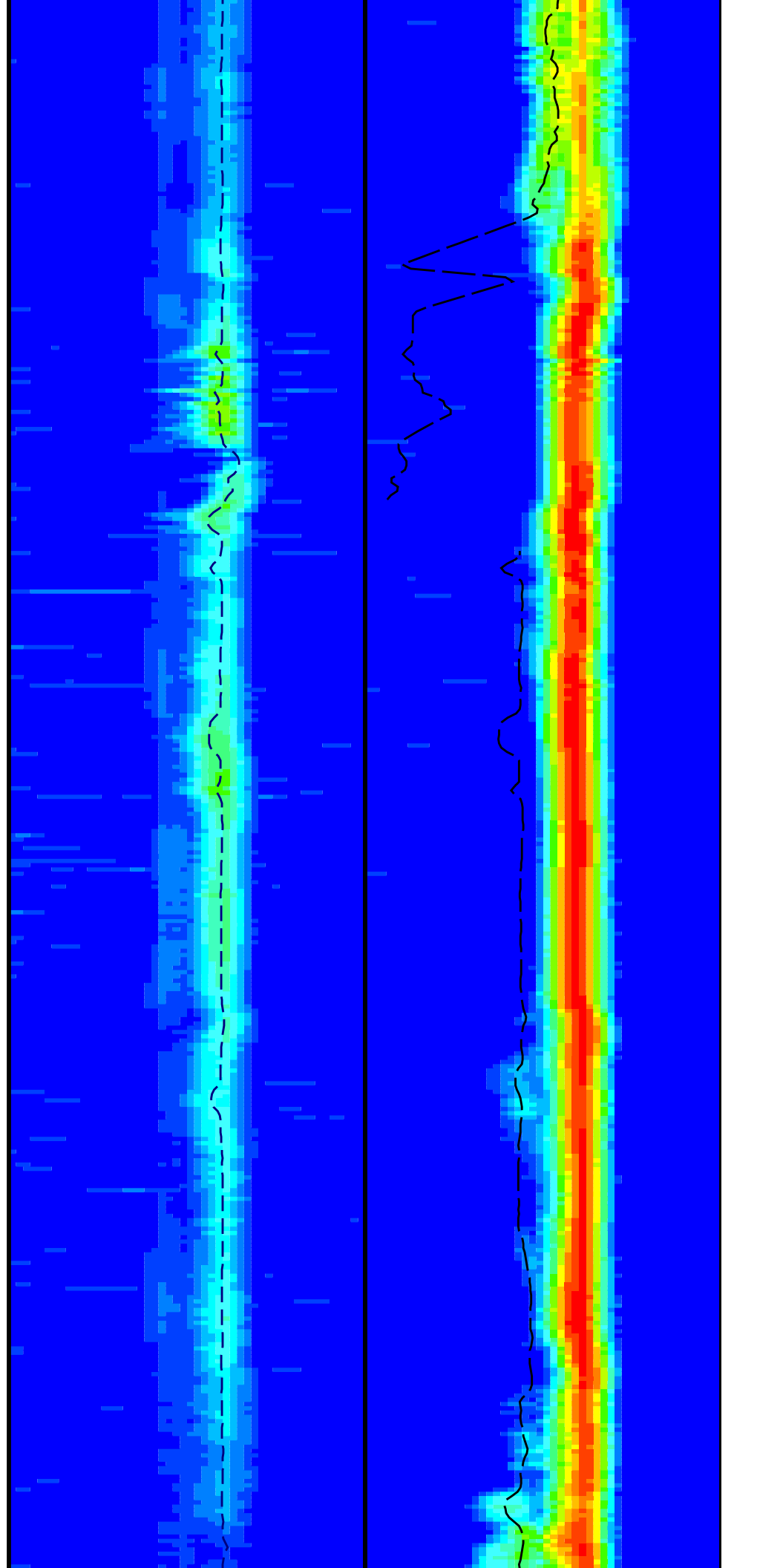


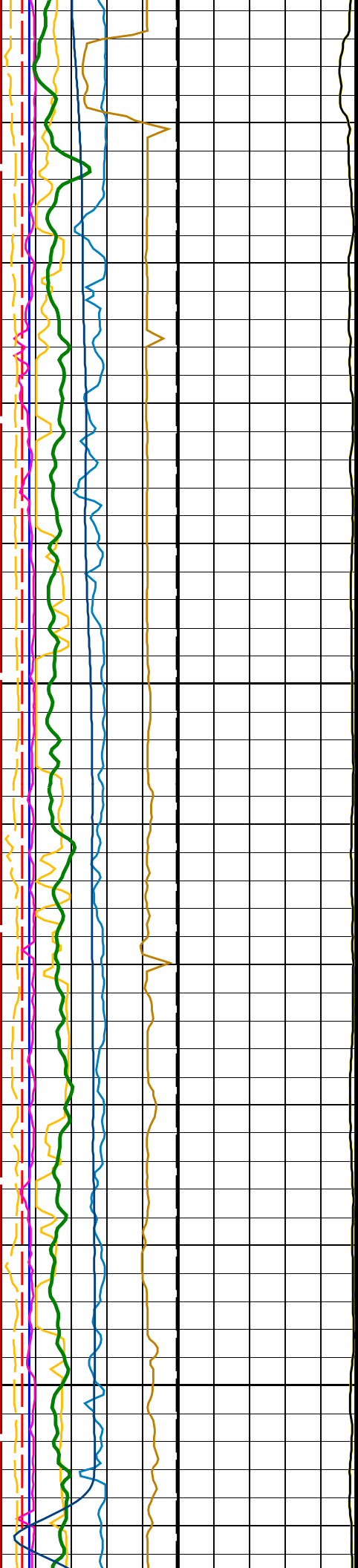


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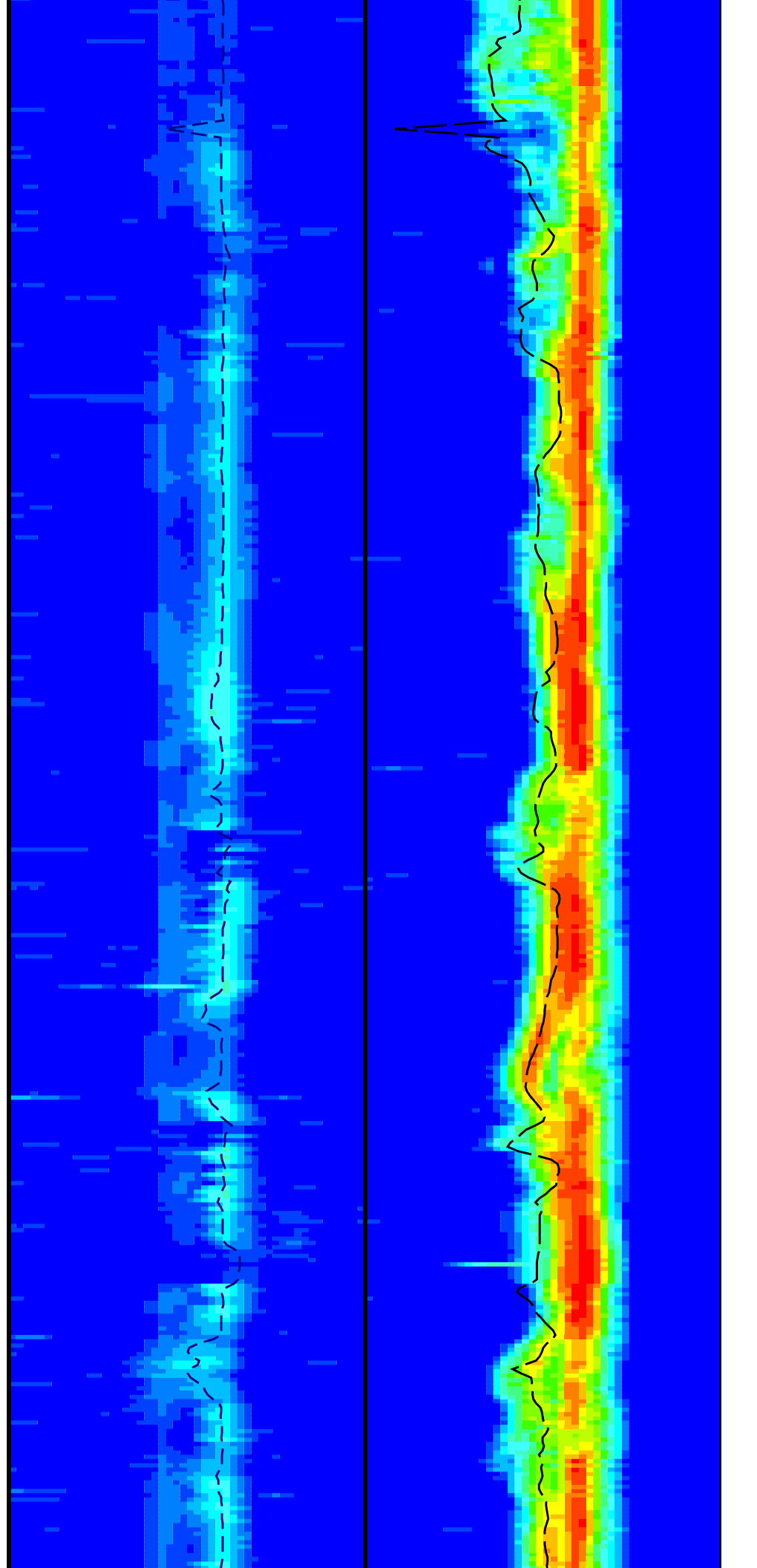
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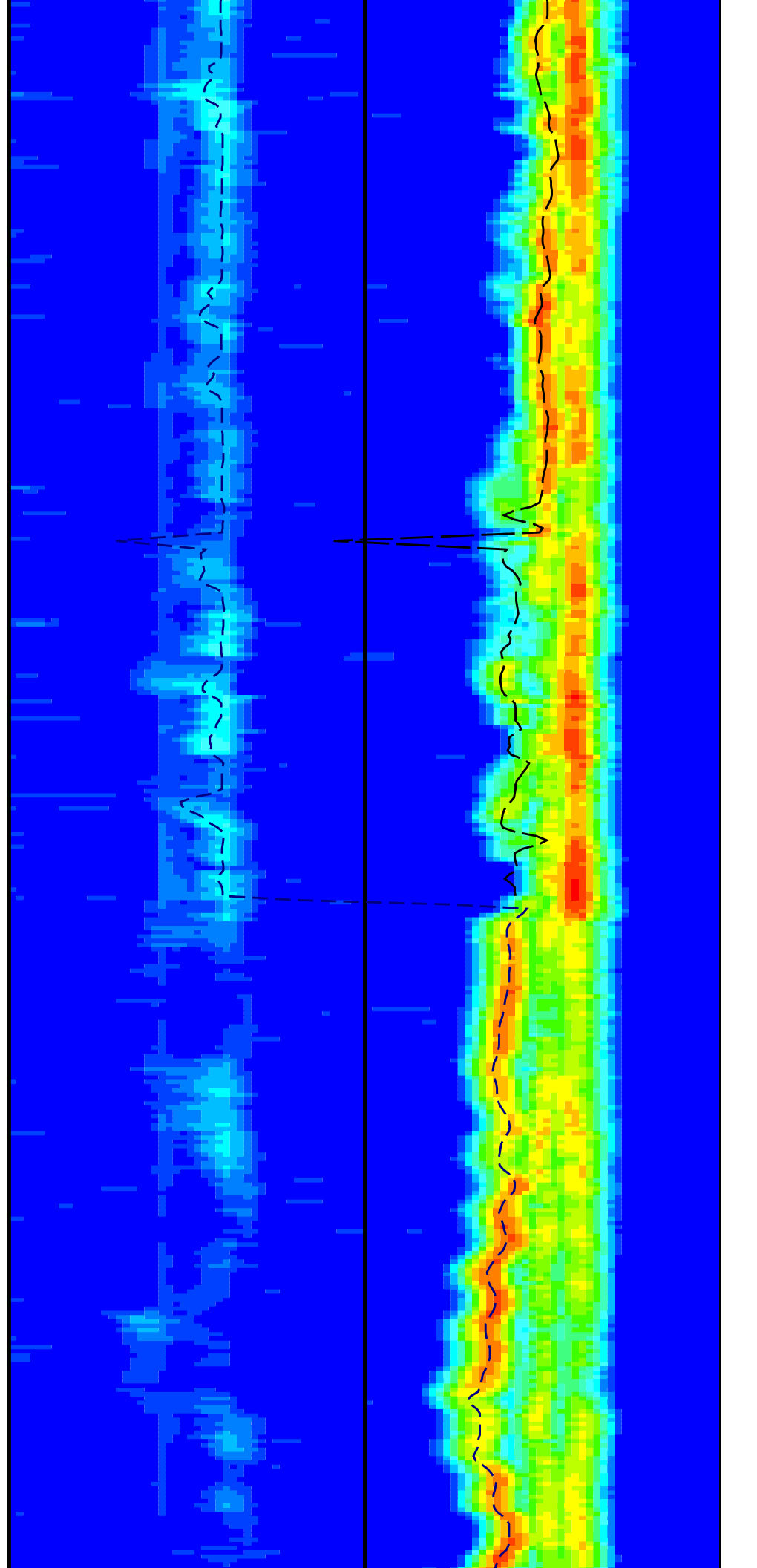
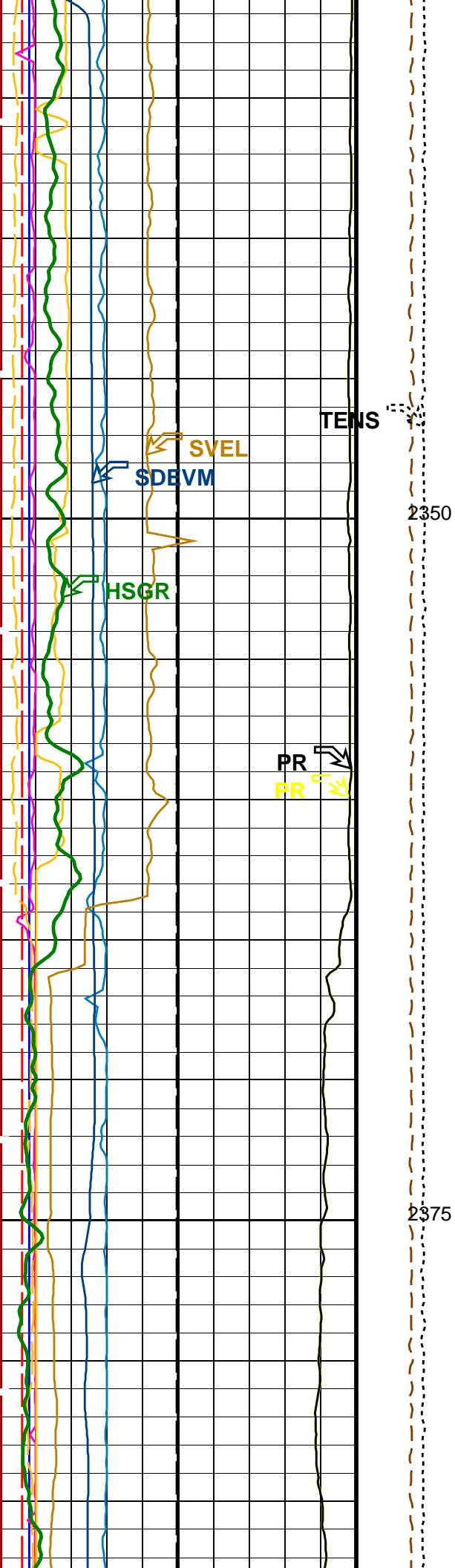


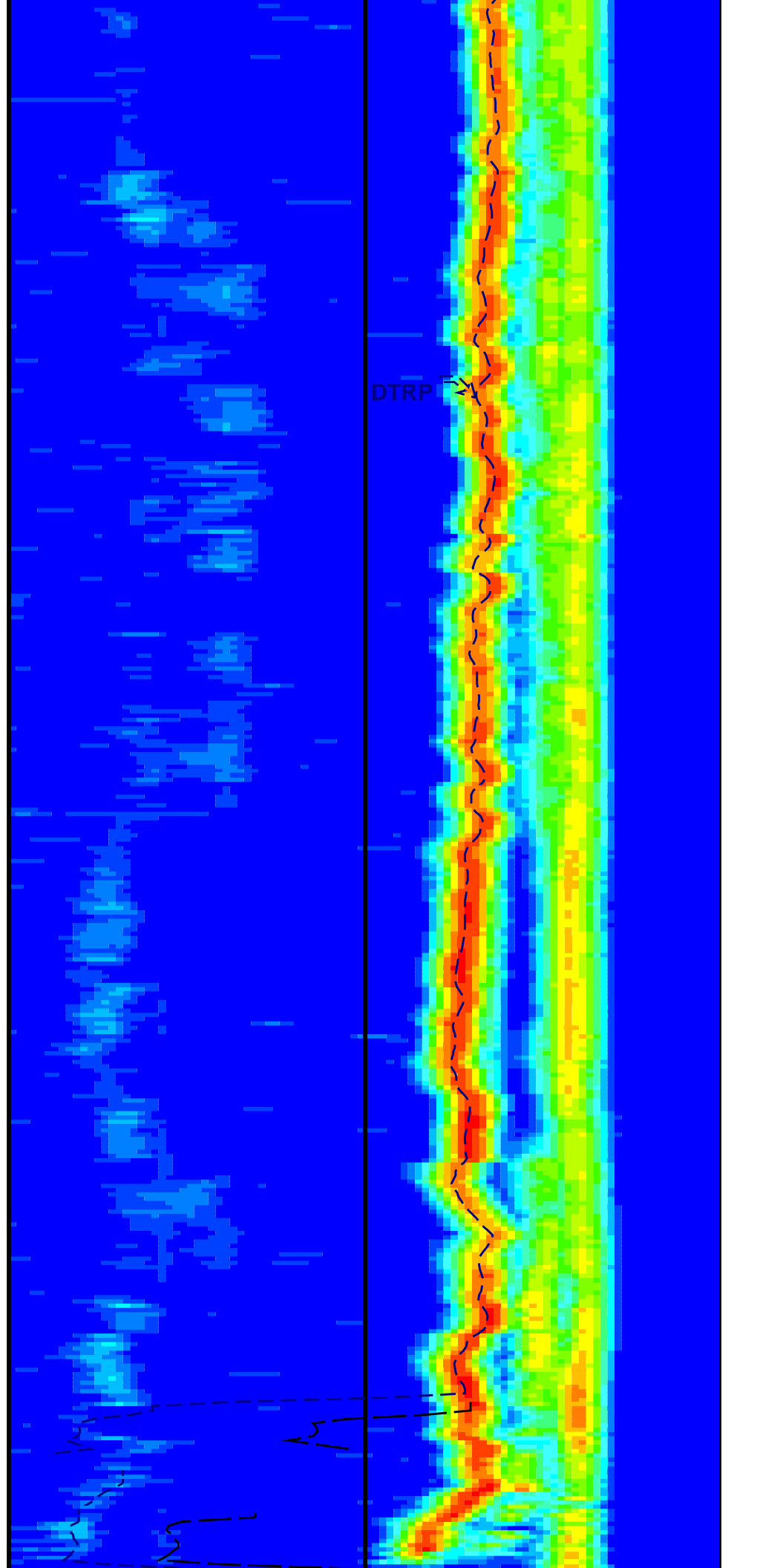
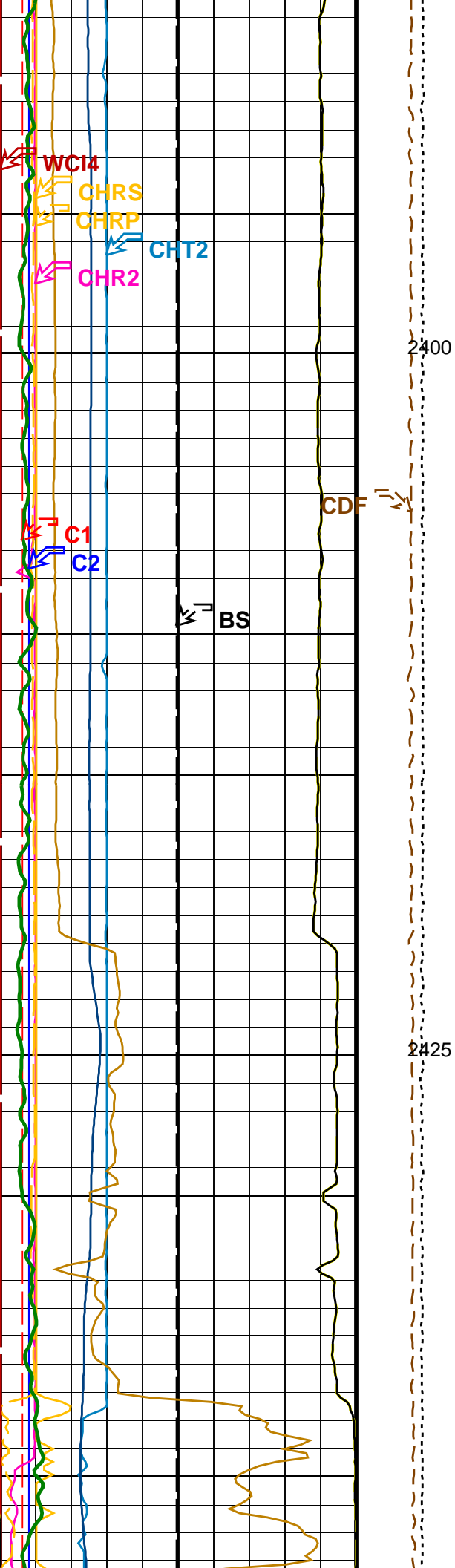


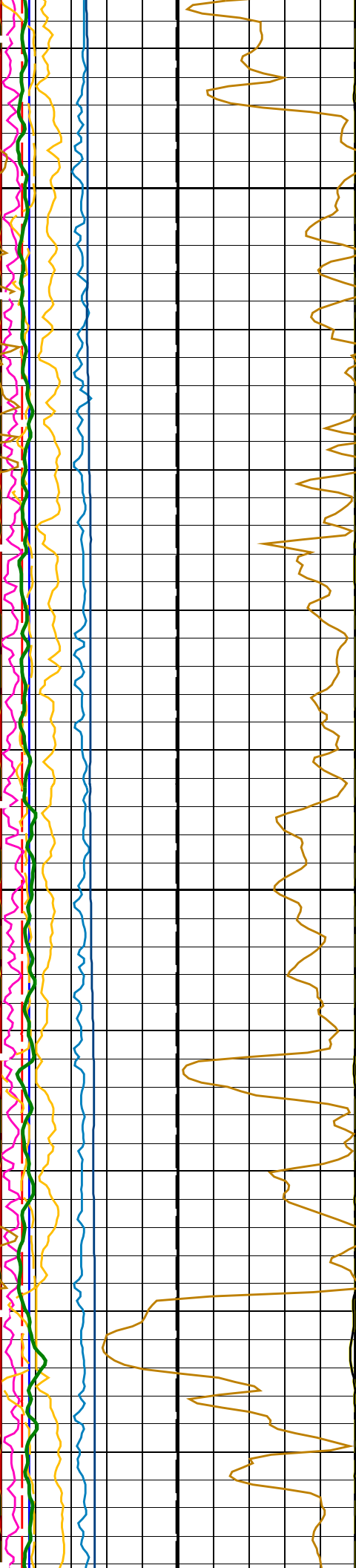
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2325



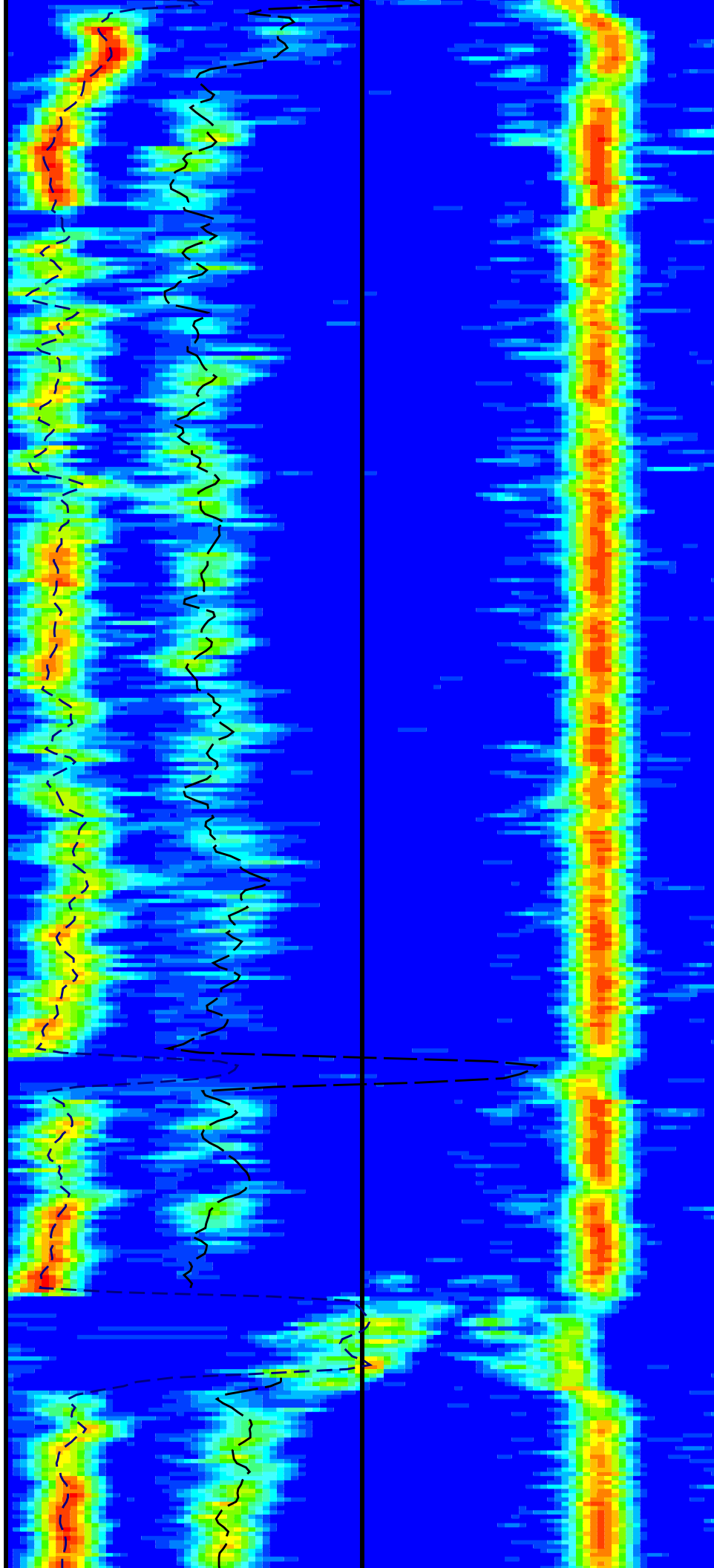


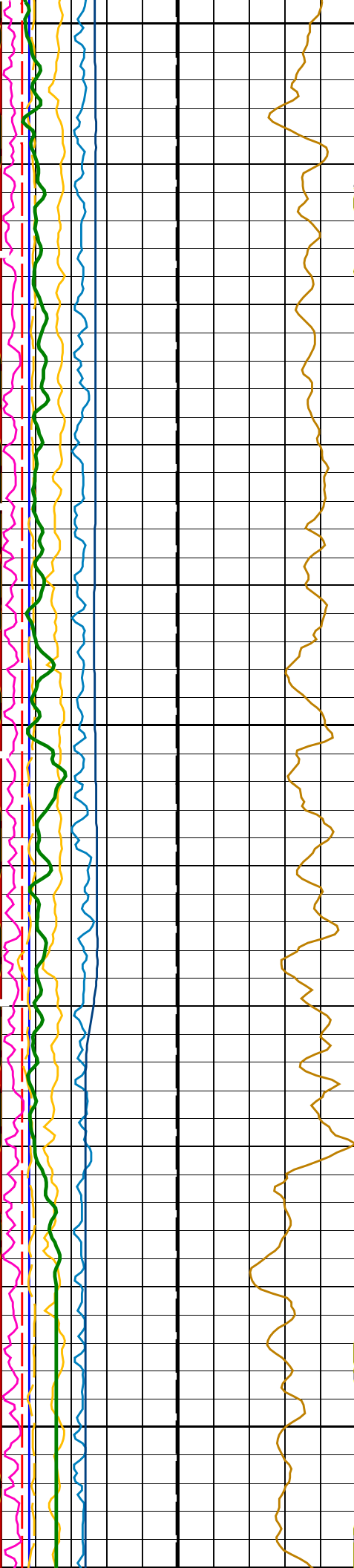




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2475

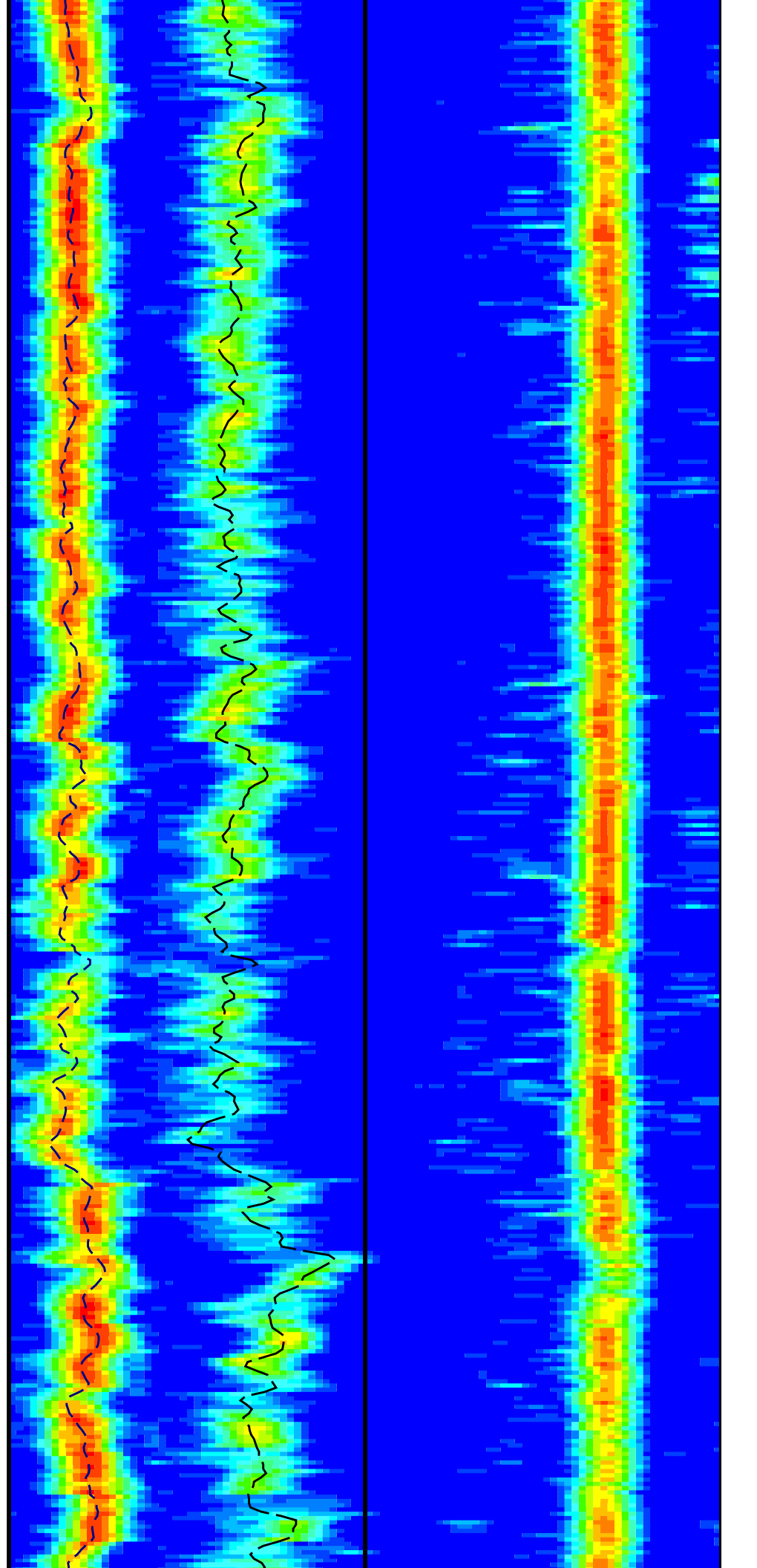


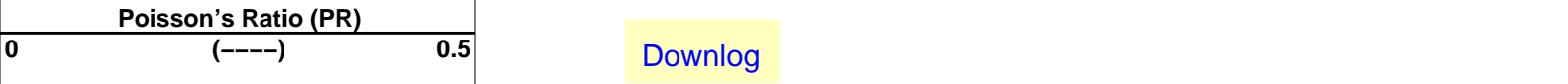
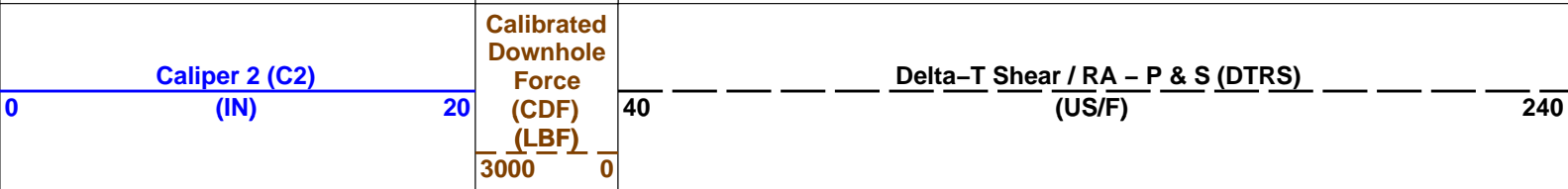
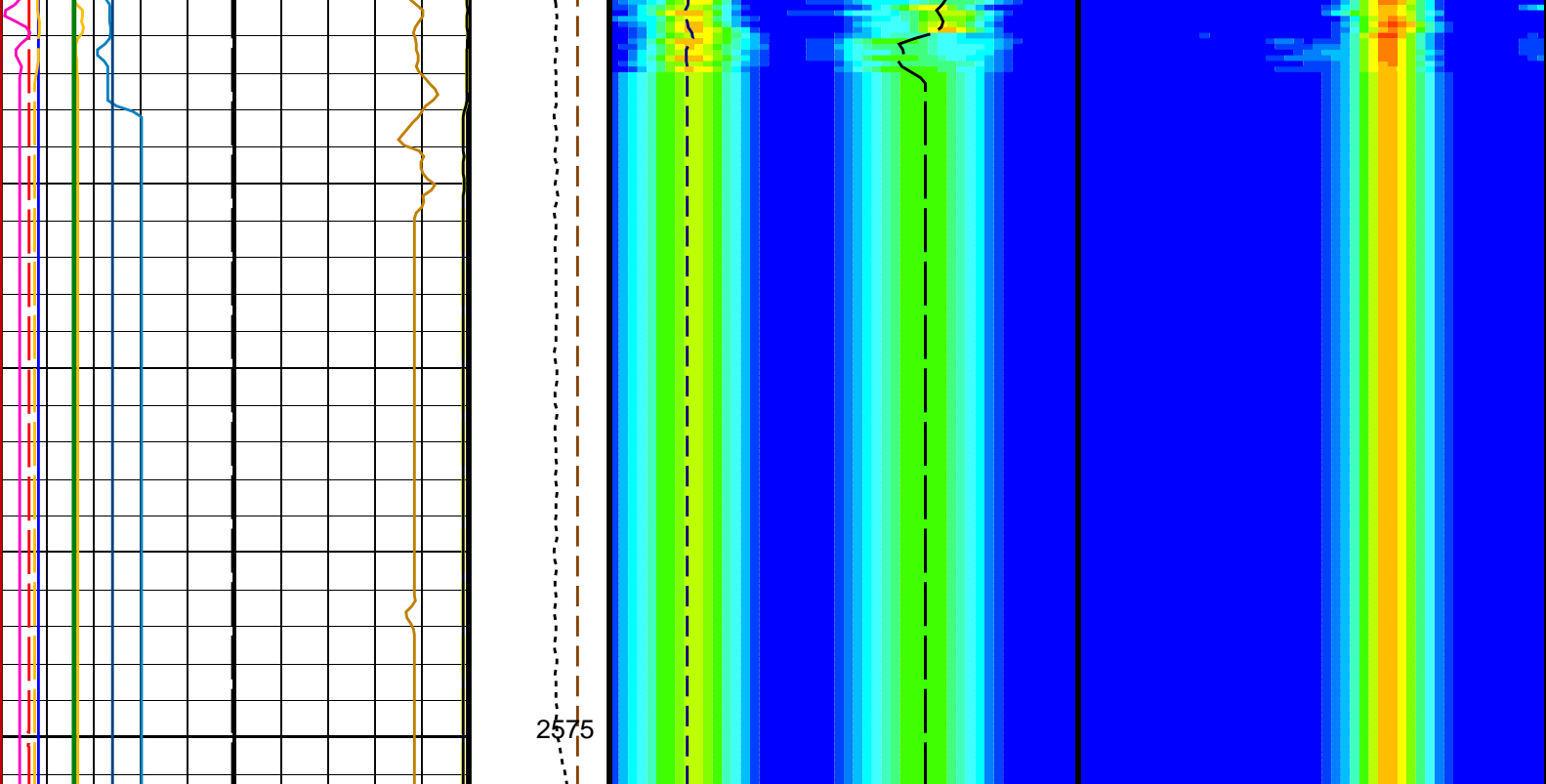


2500

2525

2550





[Downlog](#)



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	-13.045	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	40	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
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	400	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_SHEAR	
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	70	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
TWSY	Transmitter Waveform Select X	0	

WXA	Transmitter Waveform Select A	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0103607	
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	1.01617	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04146	
System and Miscellaneous			
BS	Bit Size	9.875	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: 20-Jul-2021 05:48

### 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	Flip_FMS_DSI_NGS_029LUP	PRODUCER	20-Jul-2021 05:39	2576.3 M	1952.2 M
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### Output DLIS Files

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BACKUP	FMS_DSI_NGS_032PUP	FN:54	PRODUCER	20-Jul-2021 05:48	

### Input DLIS Files

DEFAULT	FMS_DSI_NGS_027LUP	FN:45	PRODUCER	20-Jul-2021 03:15	2576.3 M	2151.6 M
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### Output DLIS Files

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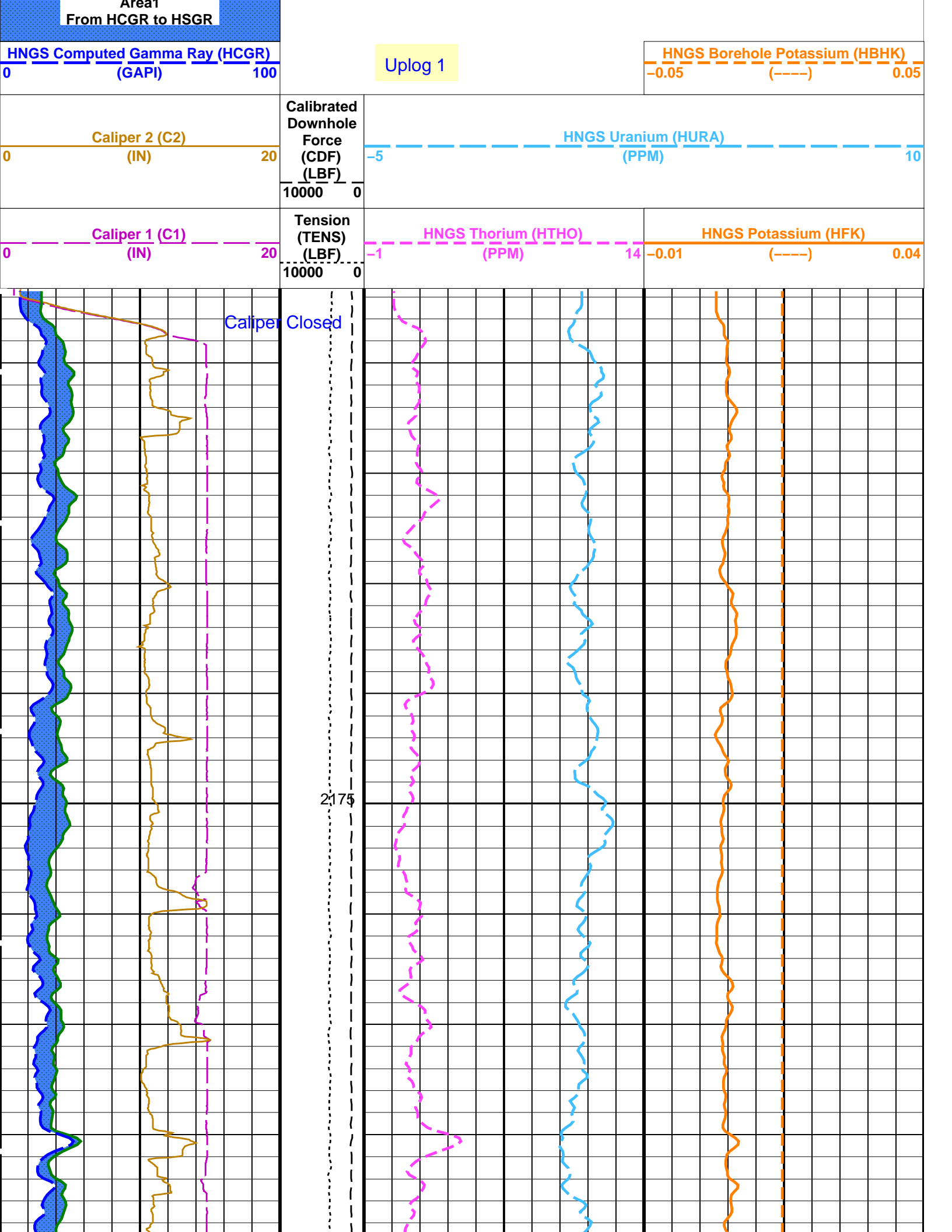
### OP System Version: 19C0-187

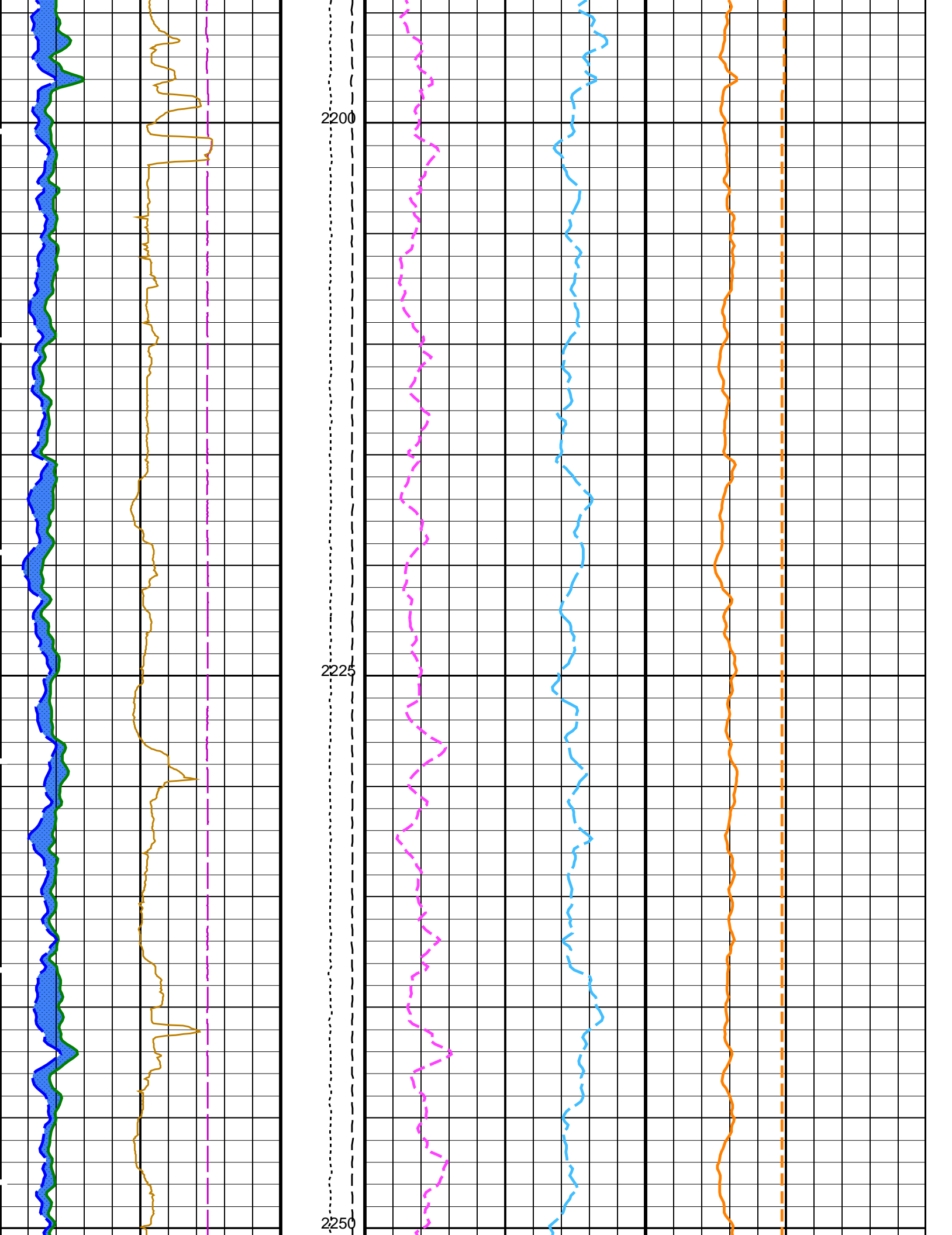
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DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

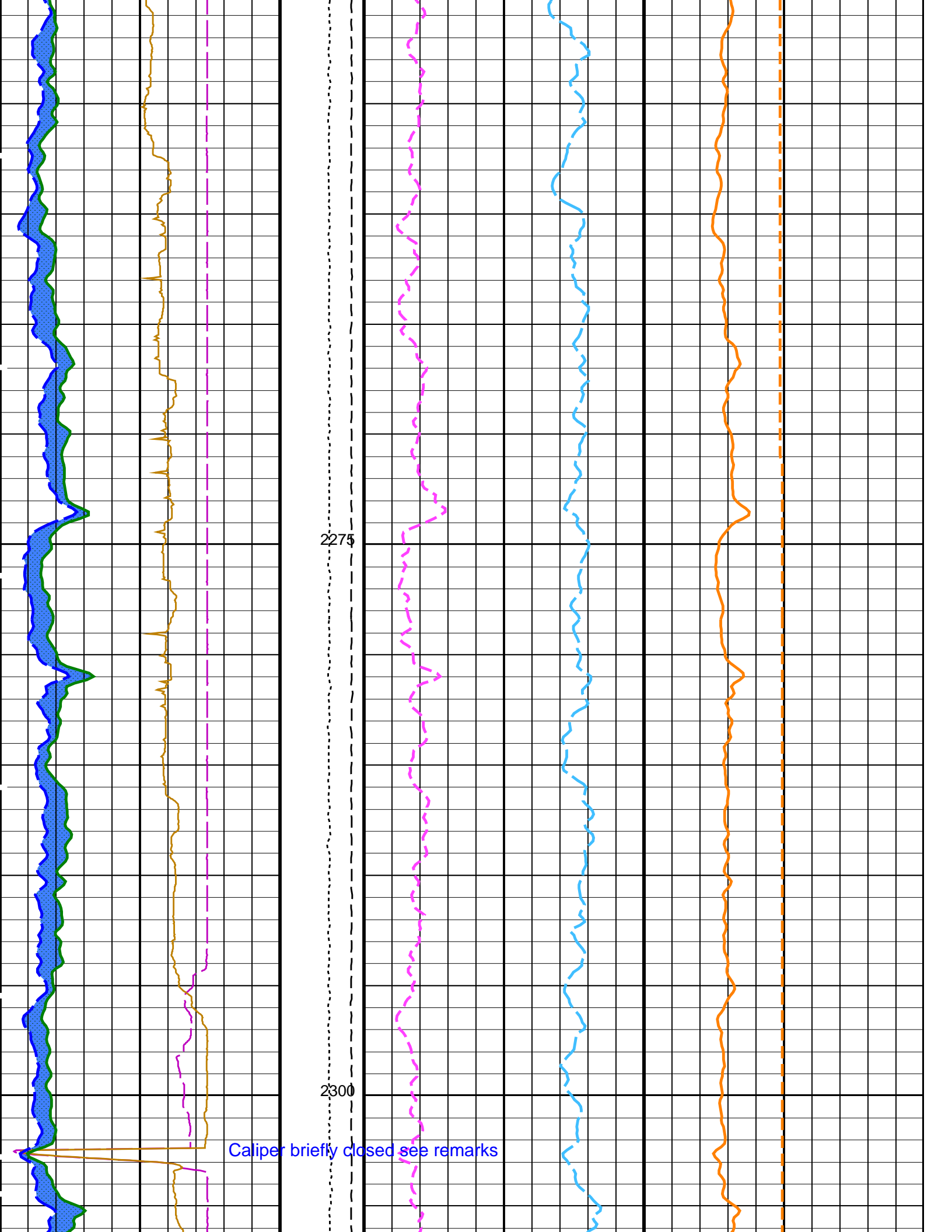
### PIP SUMMARY

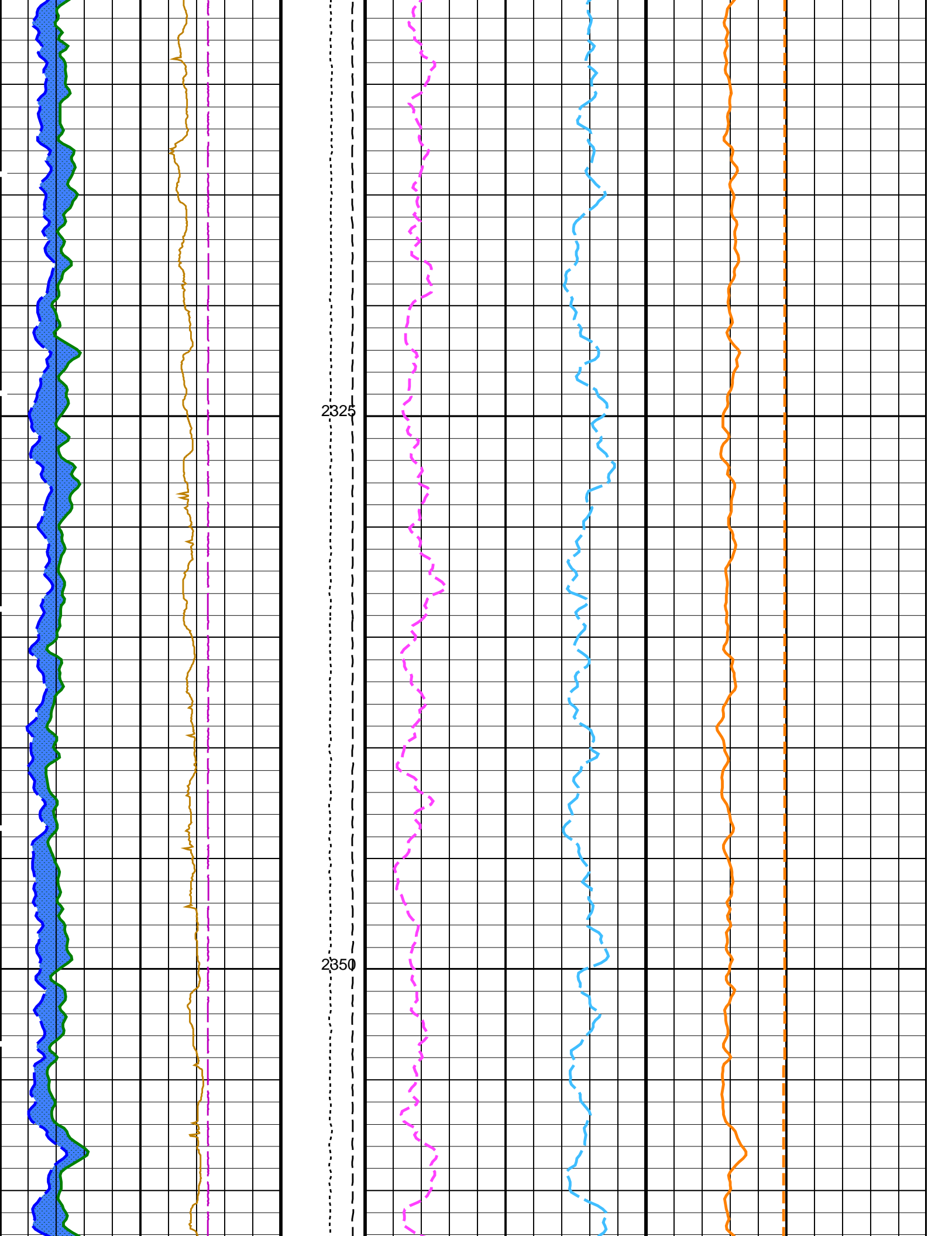
 Time Mark Every 60 S

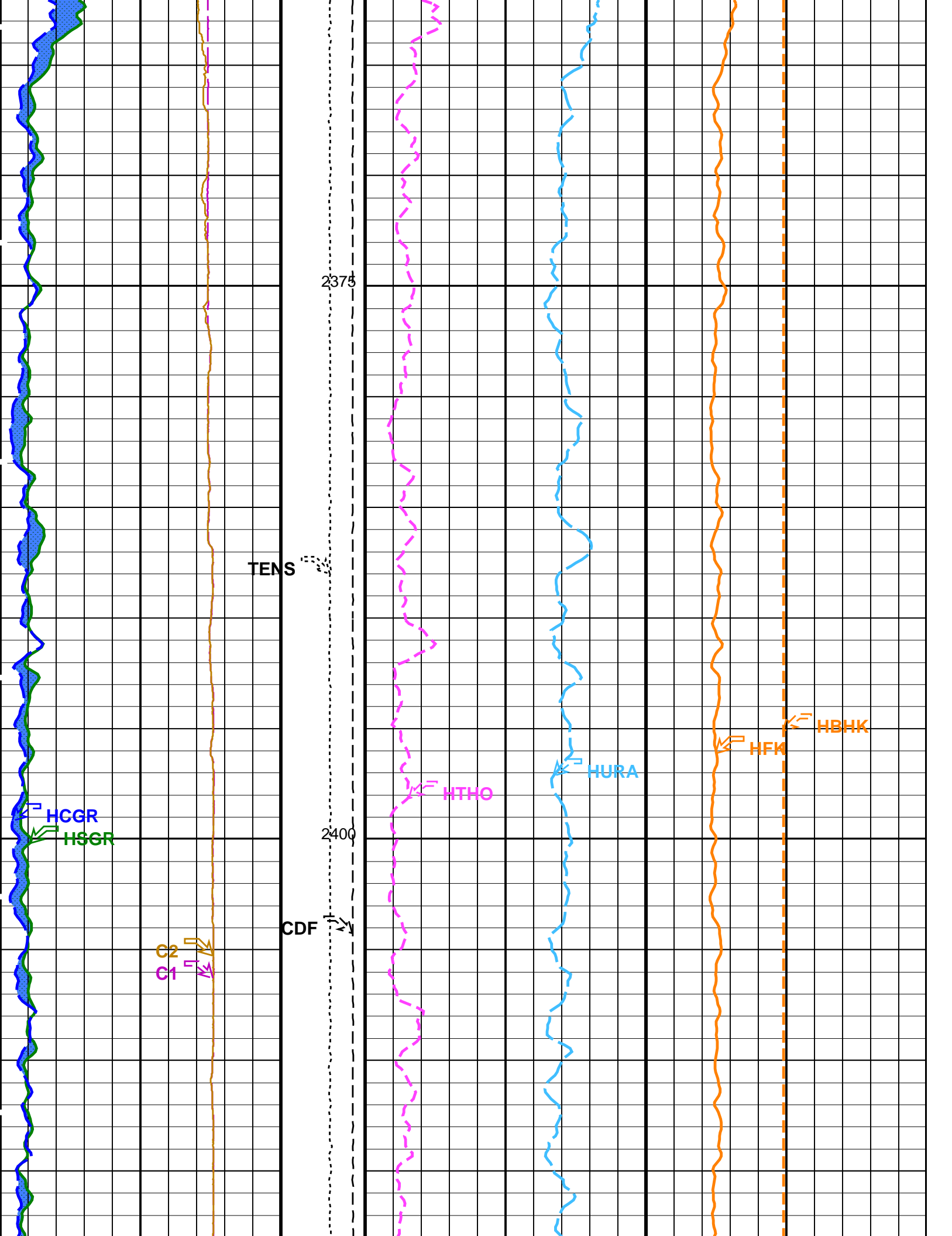
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

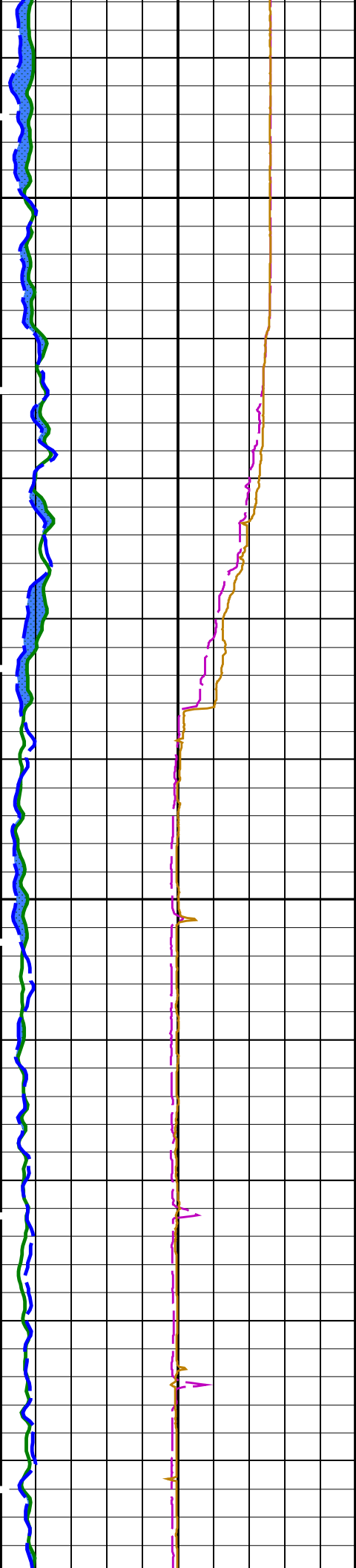






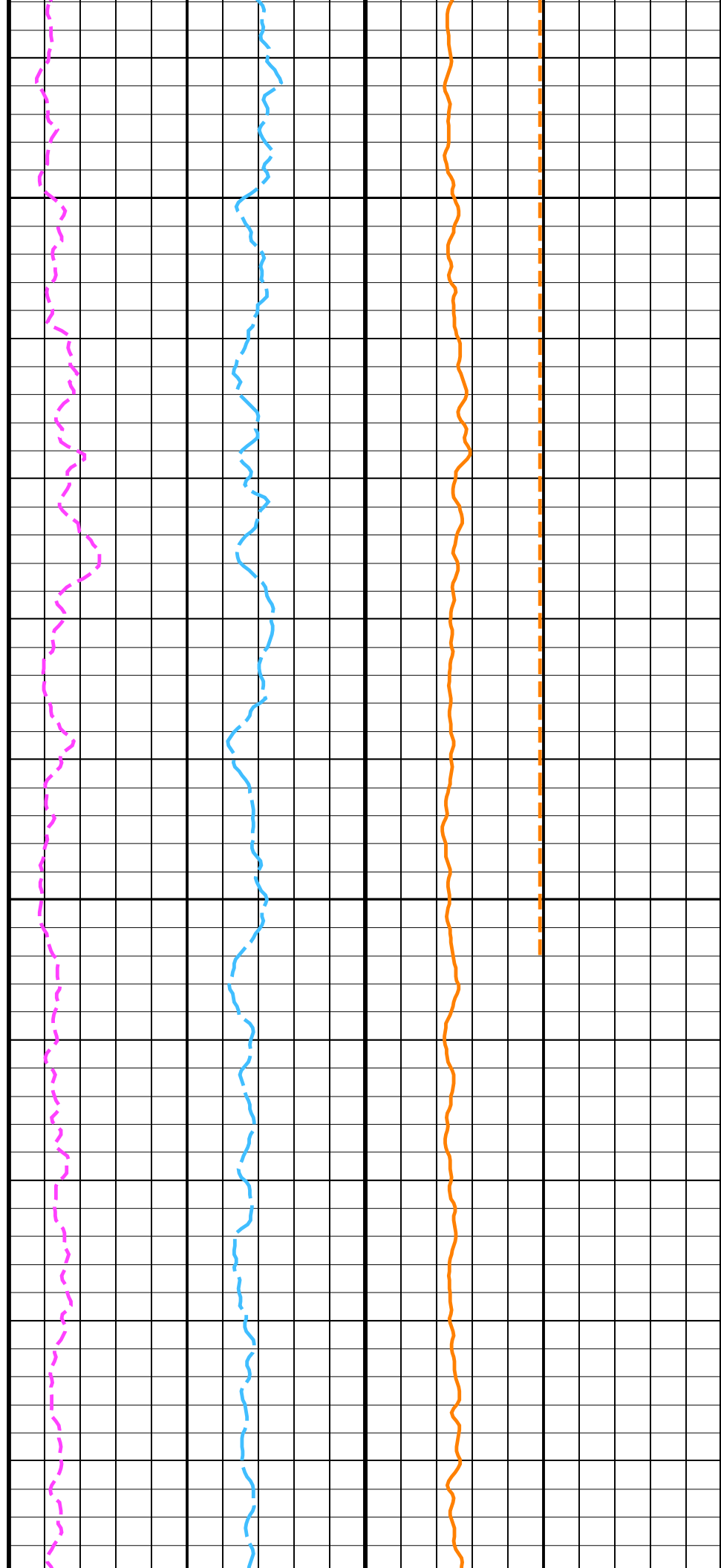




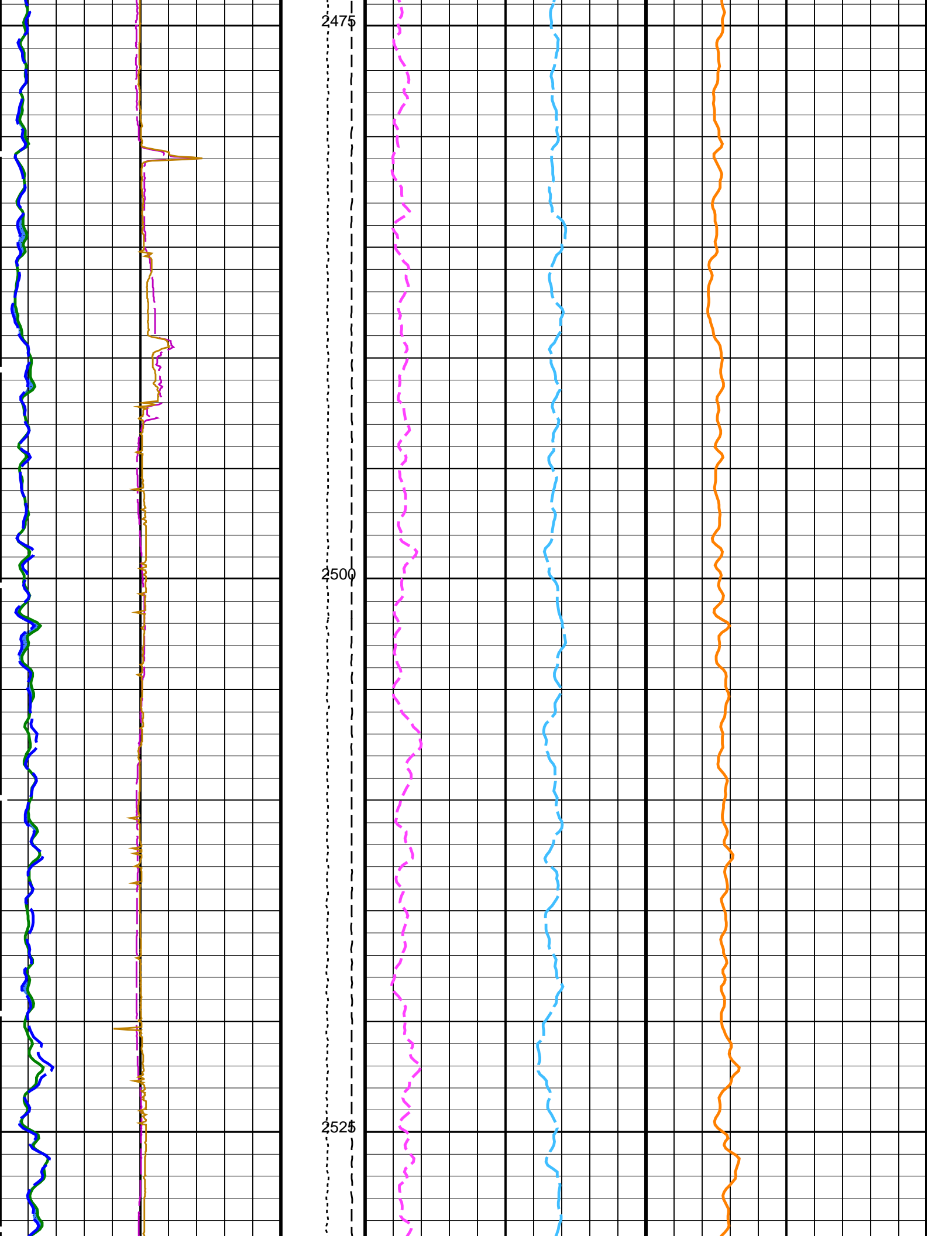


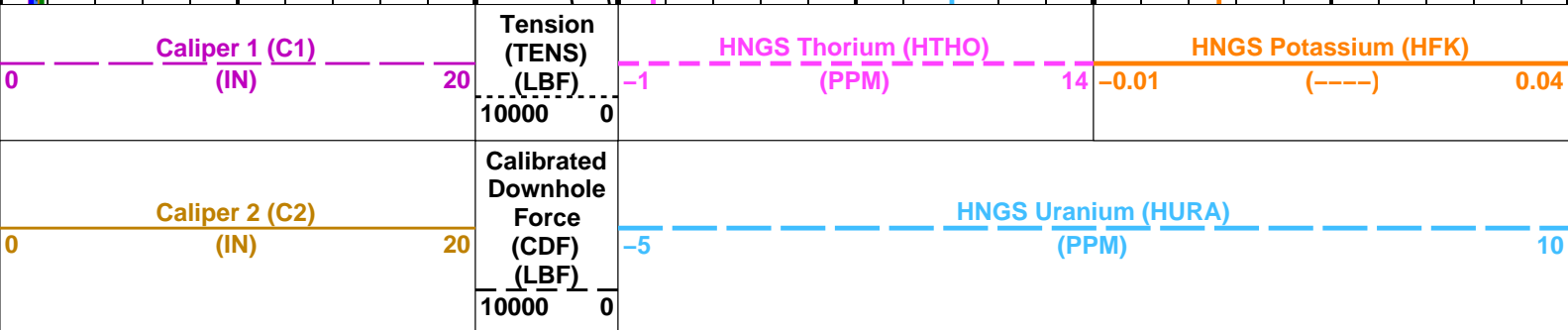
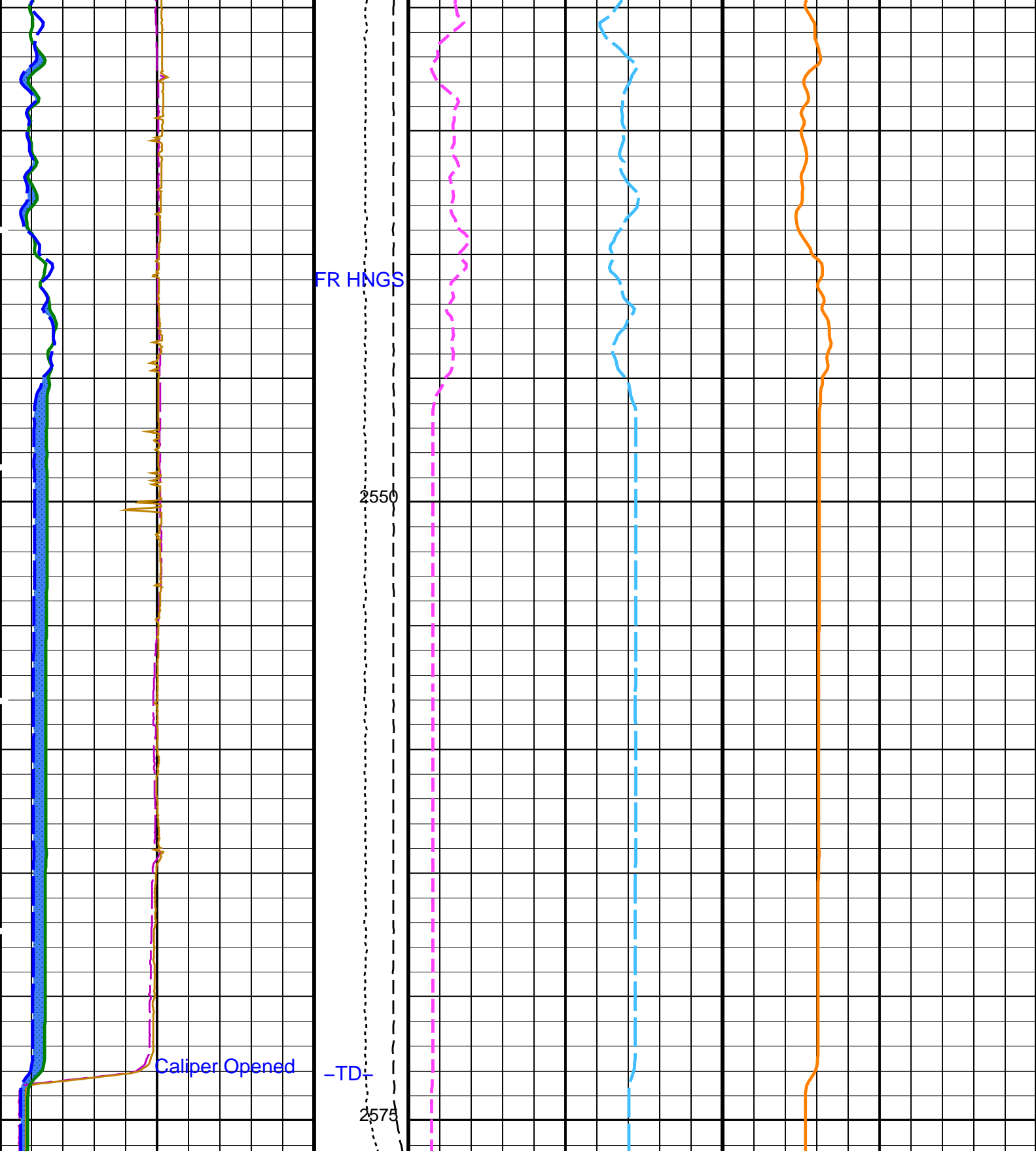
2425

2450









HNGS Computed Gamma Ray (HNGR)		
0	(GAPI)	100
Area1 From HCGR to HSGR		
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

Uplong 1

HNGS Borehole Potassium (HBHK)		
-0.05	(-----)	0.05

## 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	-0.0020805	
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	1.00957	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03663	
System and Miscellaneous			
BS	Bit Size	9.875	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: 20-Jul-2021 05:51

## OP System Version: 19C0-187

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

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_027LUP	FN:45	PRODUCER	20-Jul-2021 03:15	2576.3 M	2151.6 M
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## Output DLIS Files

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BACKUP	FMS_DSI_NGS_033PUP	FN:56	PRODUCER	20-Jul-2021 05:51

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_027LUP	FN:45	PRODUCER	20-Jul-2021 03:15	2576.3 M	2151.6 M
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## Output DLIS Files

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)  
(LBF)

100000

Sonic Velocity (SVEL)  
(M/S)

10006000

Caliper 2 (C2)  
(IN)

020

Caliper 1 (C1)  
(IN)

020

Bit Size (BS)  
(IN)

020

Uplog 1

MinAmplitudeMax

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

401400

MinAmplitudeMax

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

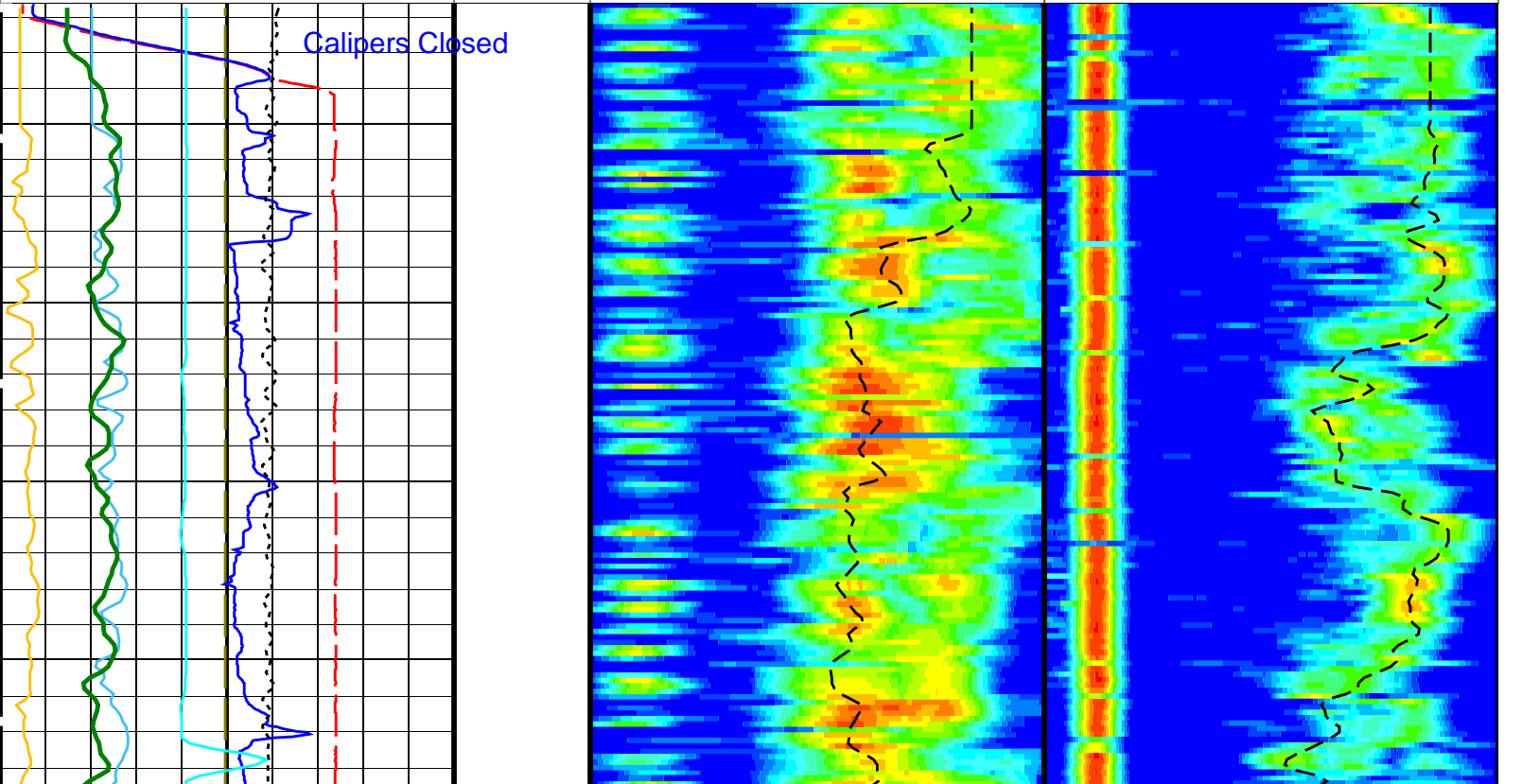
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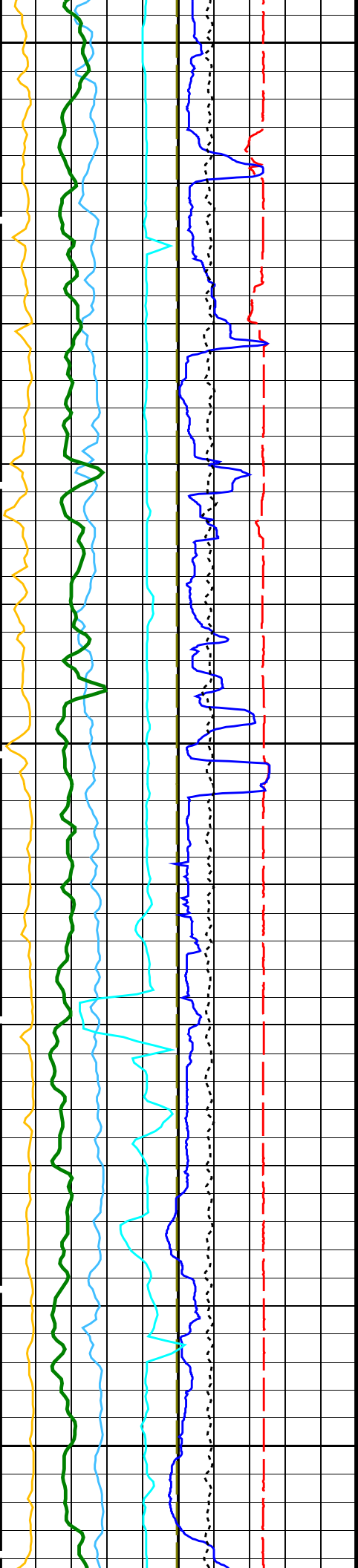
Delta-T Shear / RA – Lower Dipole  
(DT1R)  
(US/F)

401400

Delta-T Shear / RA – Upper Dipole  
(DT2R)  
(US/F)

401400

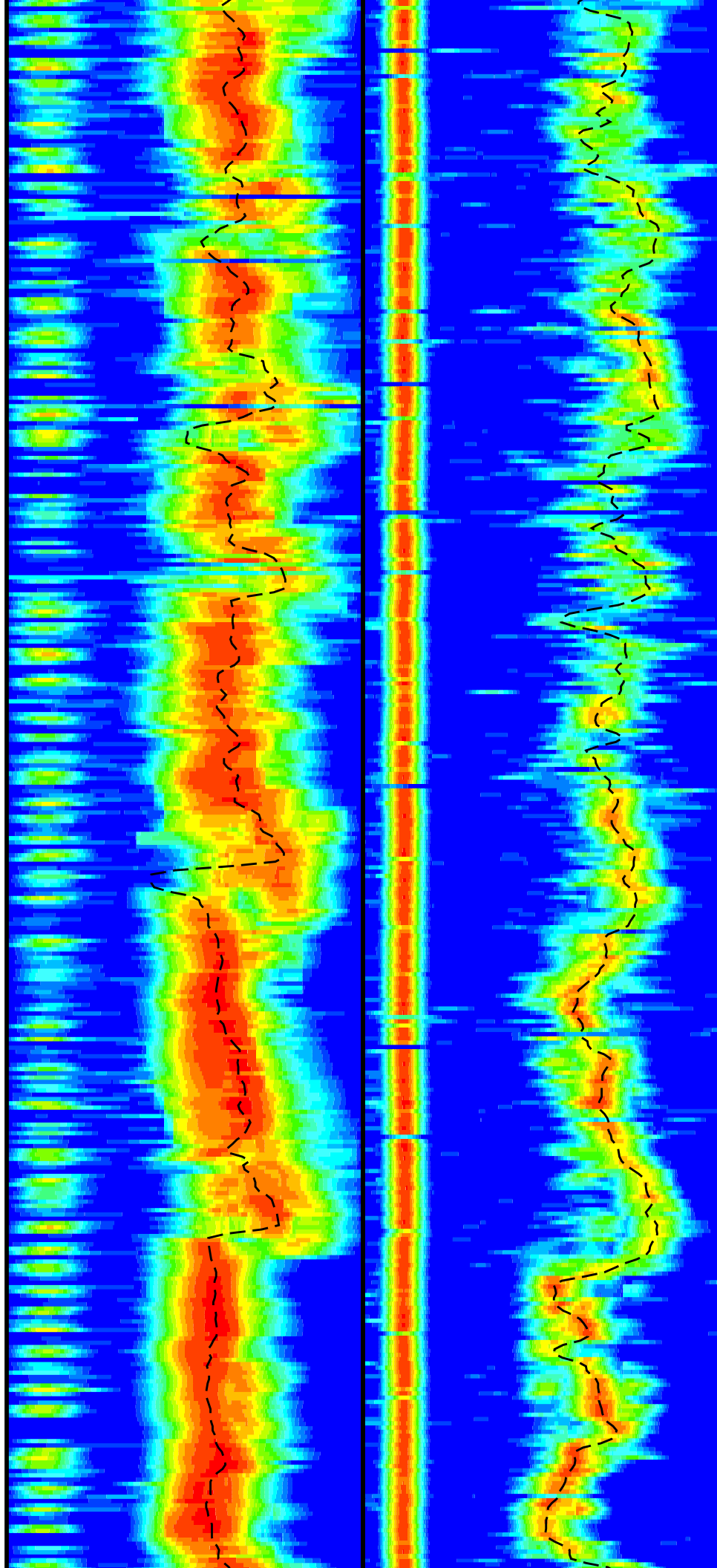


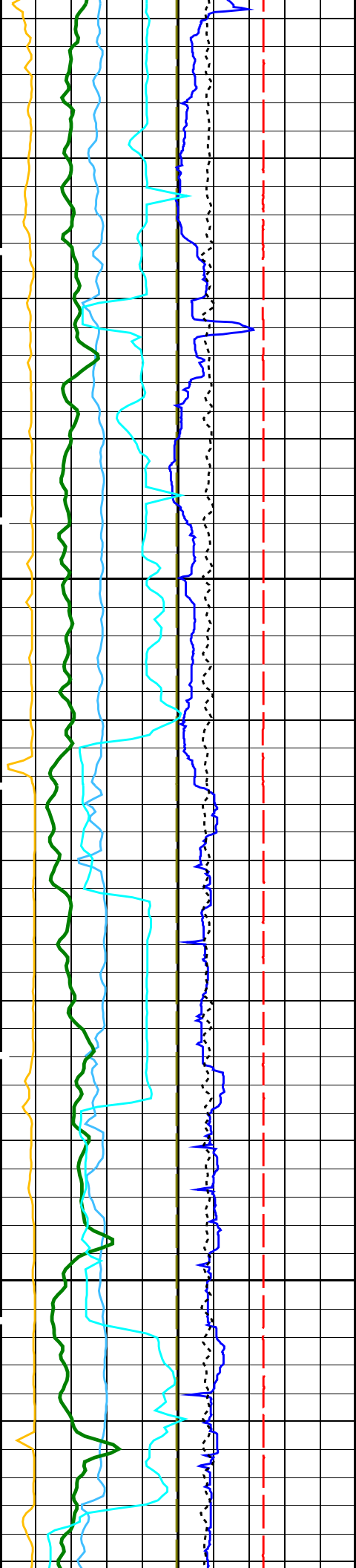


2175

2200

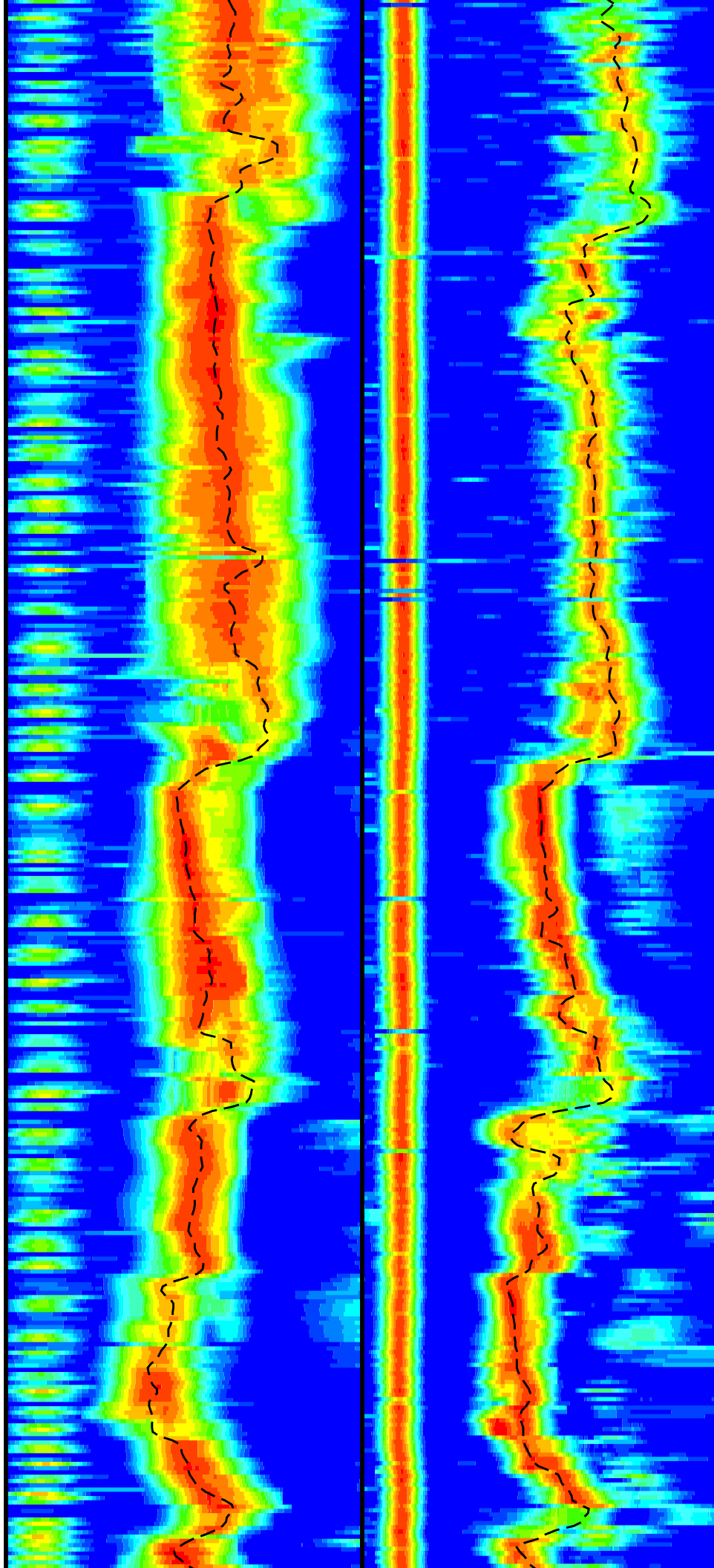
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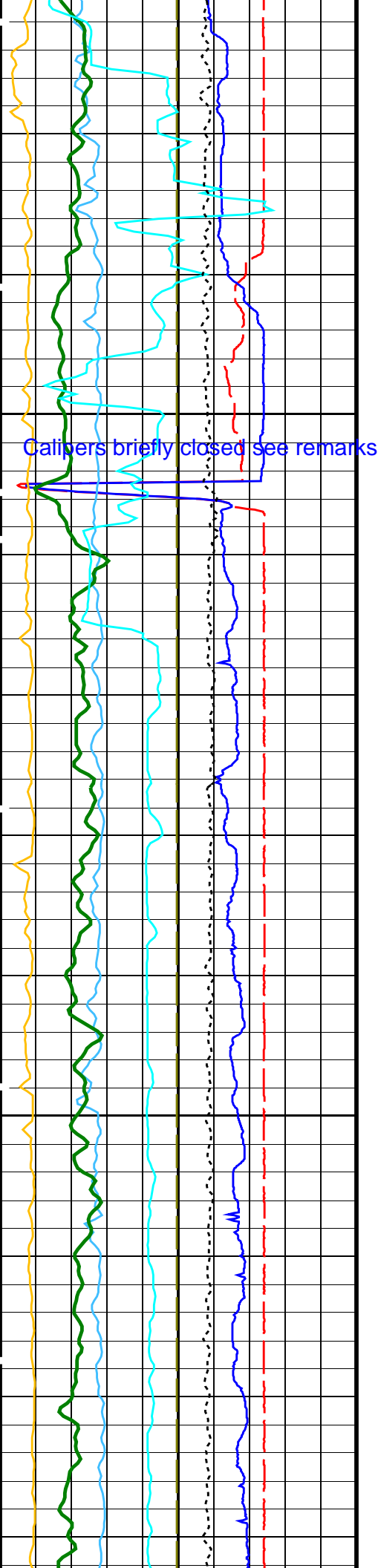




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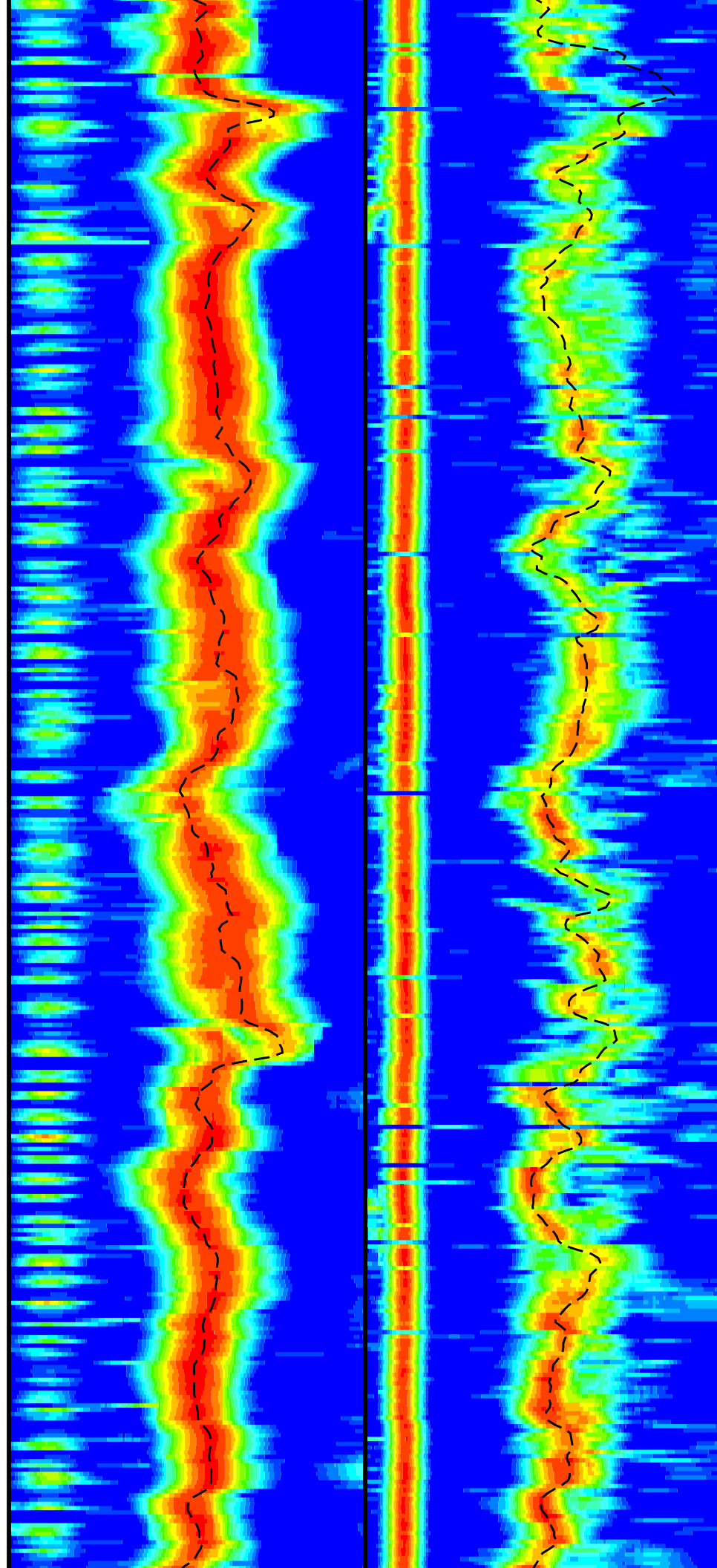
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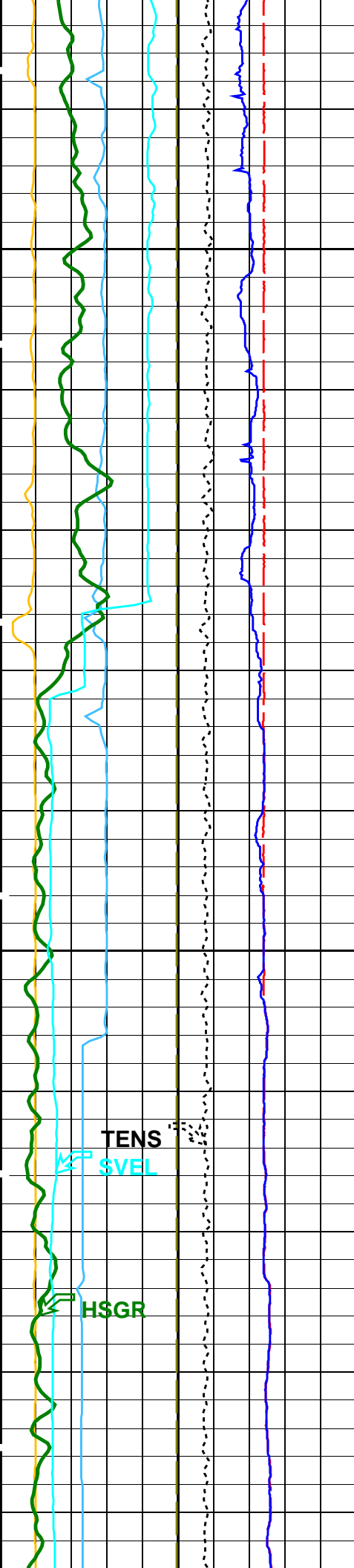


2300

2325

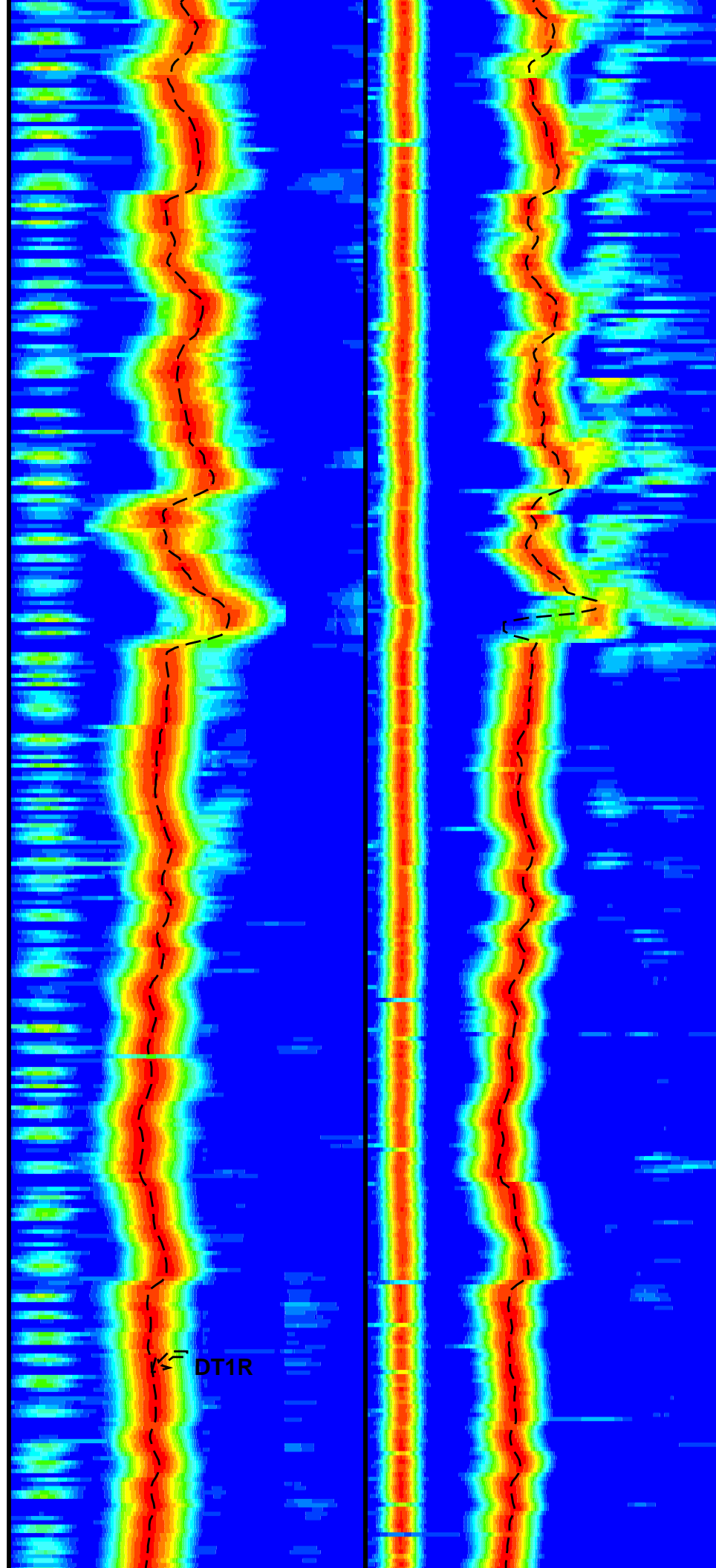




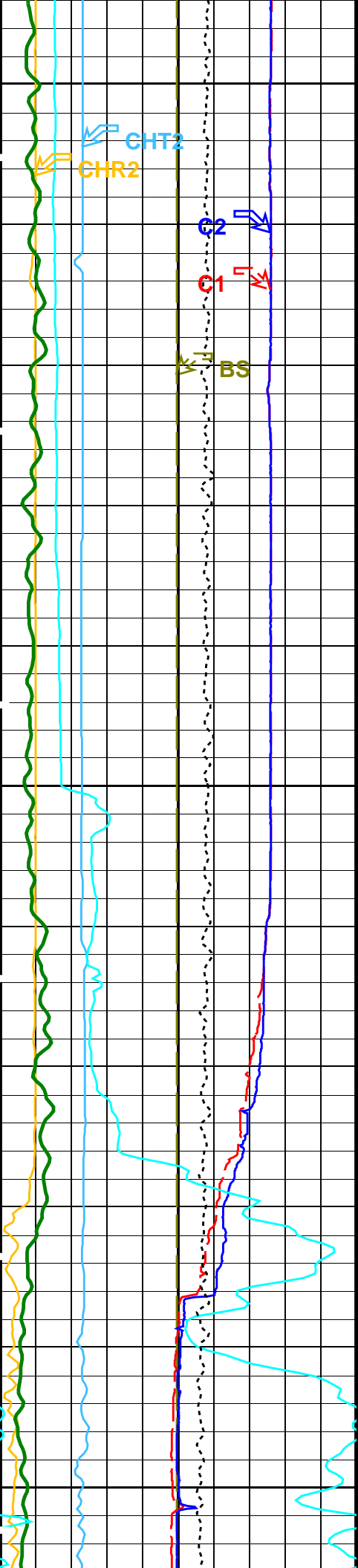


2350

2375



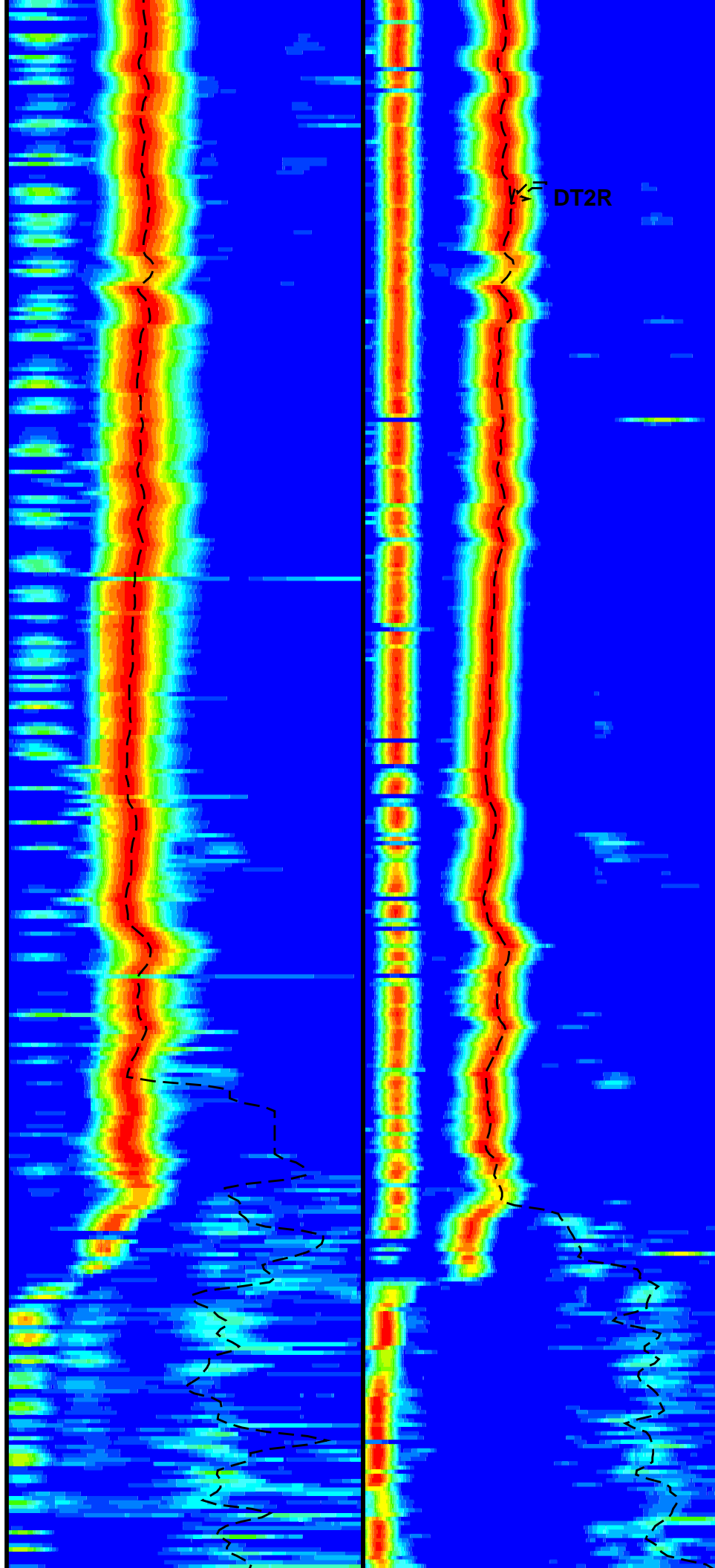


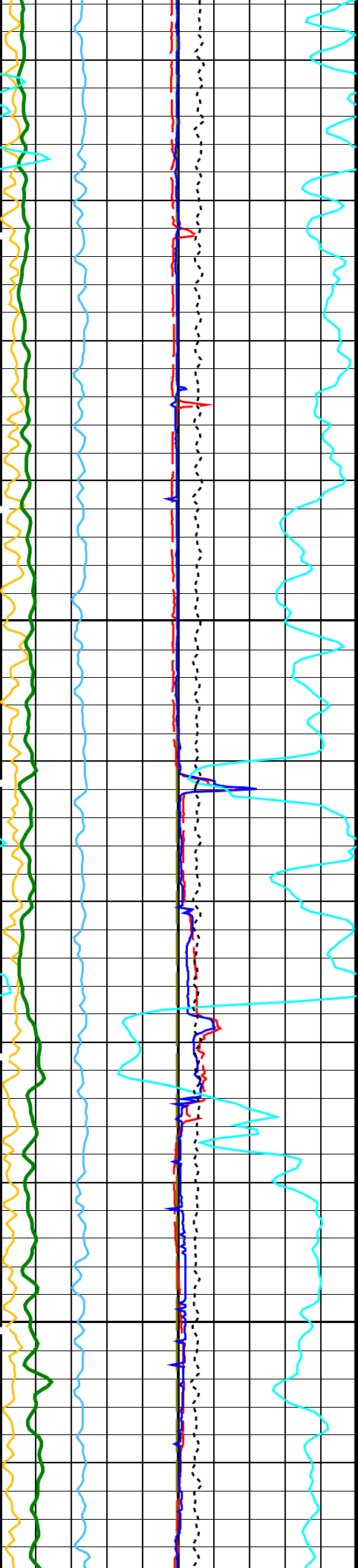


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2425

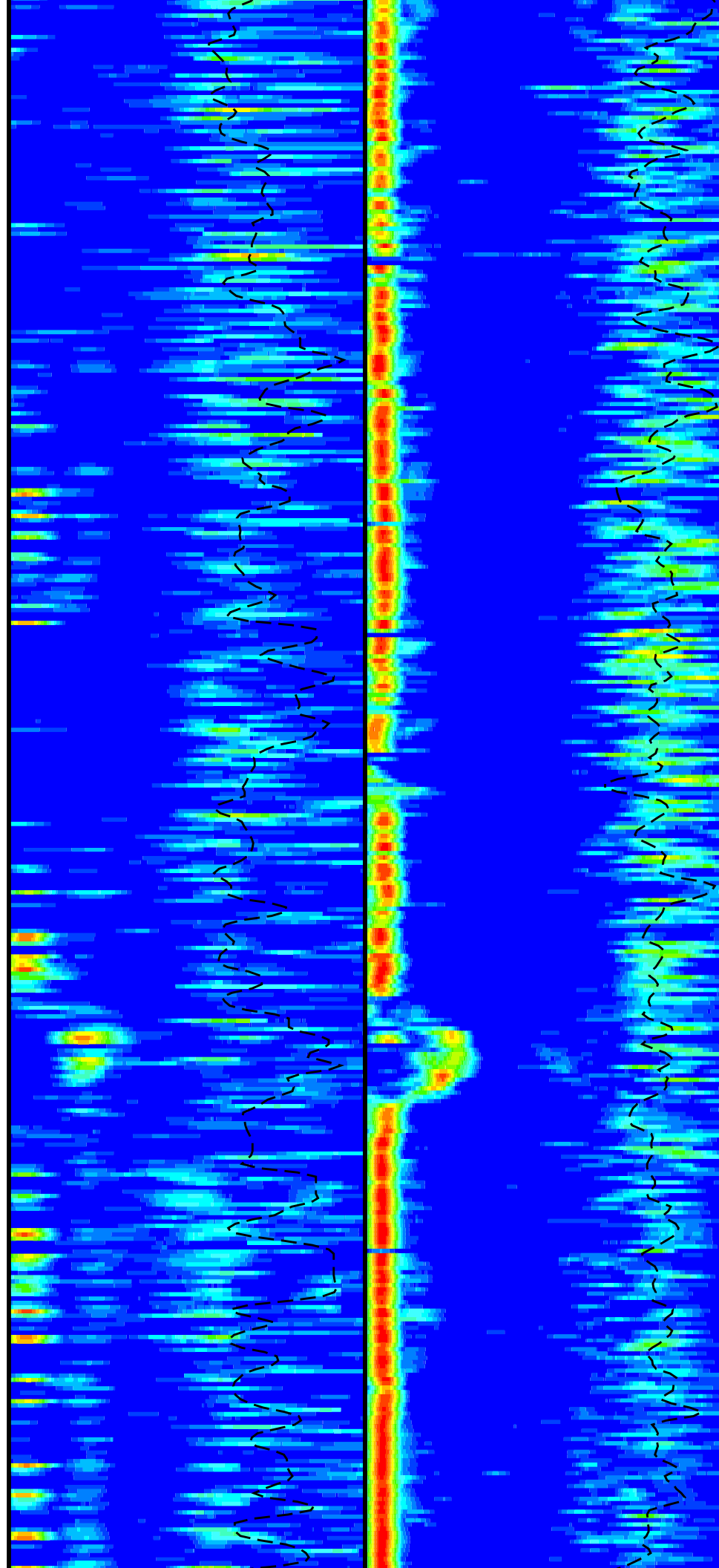
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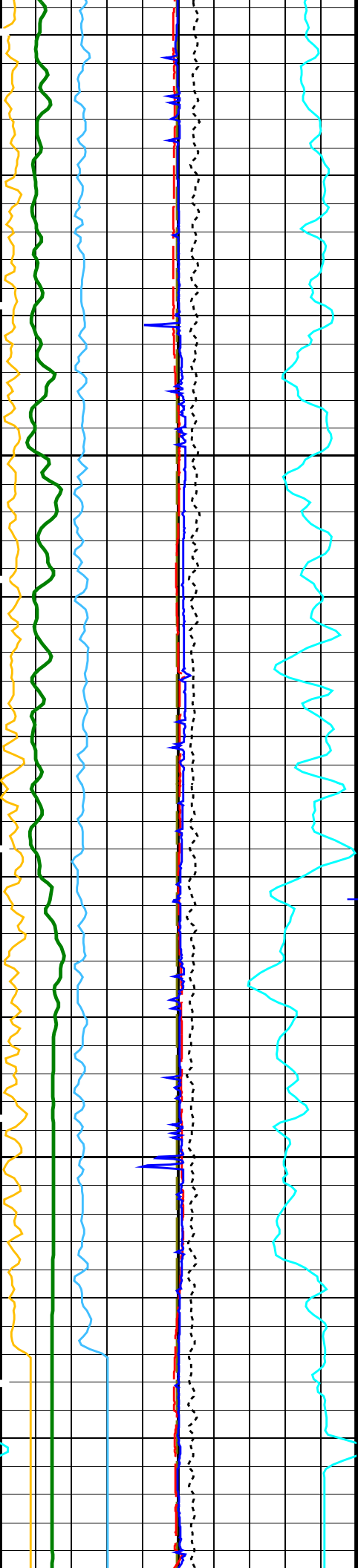




2475

2500

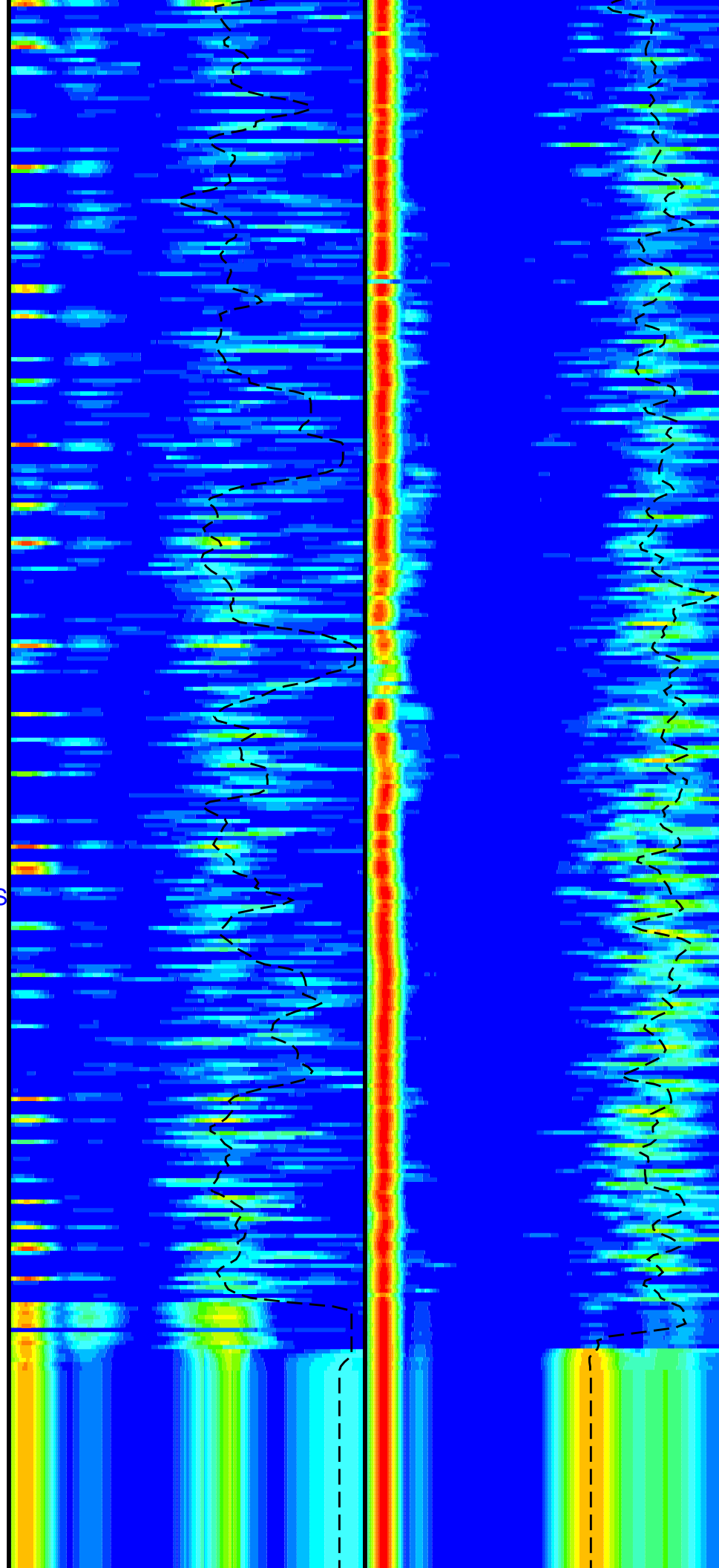


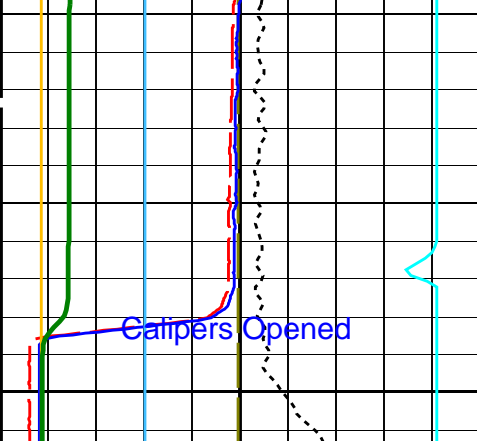


2525

-FR HNGS

2550

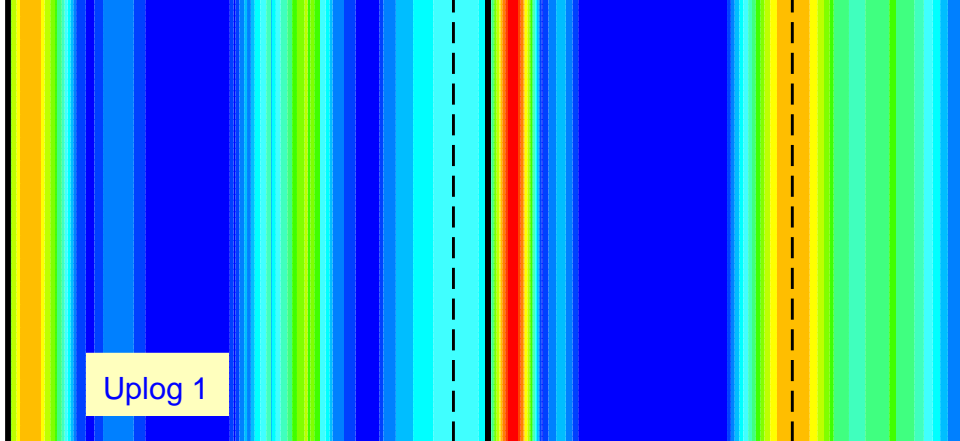




-TD-

2575

Uplog 1



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

Delta-T Shear / RA - Lower Dipole (DT1R)			Delta-T Shear / RA - Upper Dipole (DT2R)		
40		1400	40		1400
Min Amplitude Max			Min Amplitude Max		
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)			Rec.Array U.Dipole Slow Proj. CVDL (SPR2)		
40		1400	40		1400

## 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
DDE2	Digitizing Delay 2	0
DDEX	Digitizing Delay X	0
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	400
DSHU	Label Slowness Upper Limit – Dipole Shear	1400
DSI1	Digitizer Sample Interval 1	40
DSI2	Digitizer Sample Interval 2	40
DSIX	Digitizer Sample Interval X	40
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
NWI1	Number Waveform Items 1	8
NWI2	Number Waveform Items 2	8
NWIX	Number Waveform Items X	0
RX1G	Receiver 1 Geometry	294
RX2G	Receiver 2 Geometry	300

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
HNGB–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGB Detector 1 Barite Constant	1	
BAR2	HNGB Detector 2 Barite Constant	1	
BHK	HNGB 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	HNGB Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGB Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGB Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGB Borehole Potassium Running Average	–0.0020805	
HALF	HNGB Alpha Filter Length	60	IN
HCRB	HNGB Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGB Processing Enable	YES	
S1BI	HNGB Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGB Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGB Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGB Detector 1 Variable Barite Factor Running Average	1.00957	
VBA2	HNGB Detector 2 Variable Barite Factor Running Average	1.03663	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

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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
HNGB–BA	19C0–187	DTC–H	19C0–187

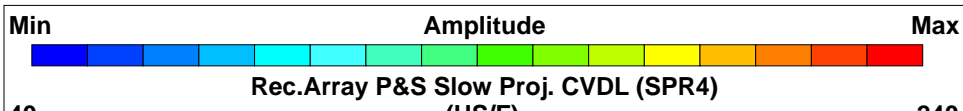
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Output DLIS Files						
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BACKUP	FMS_DSI_NGS_033PUP	FN:56	PRODUCER	20-Jul-2021 05:51		

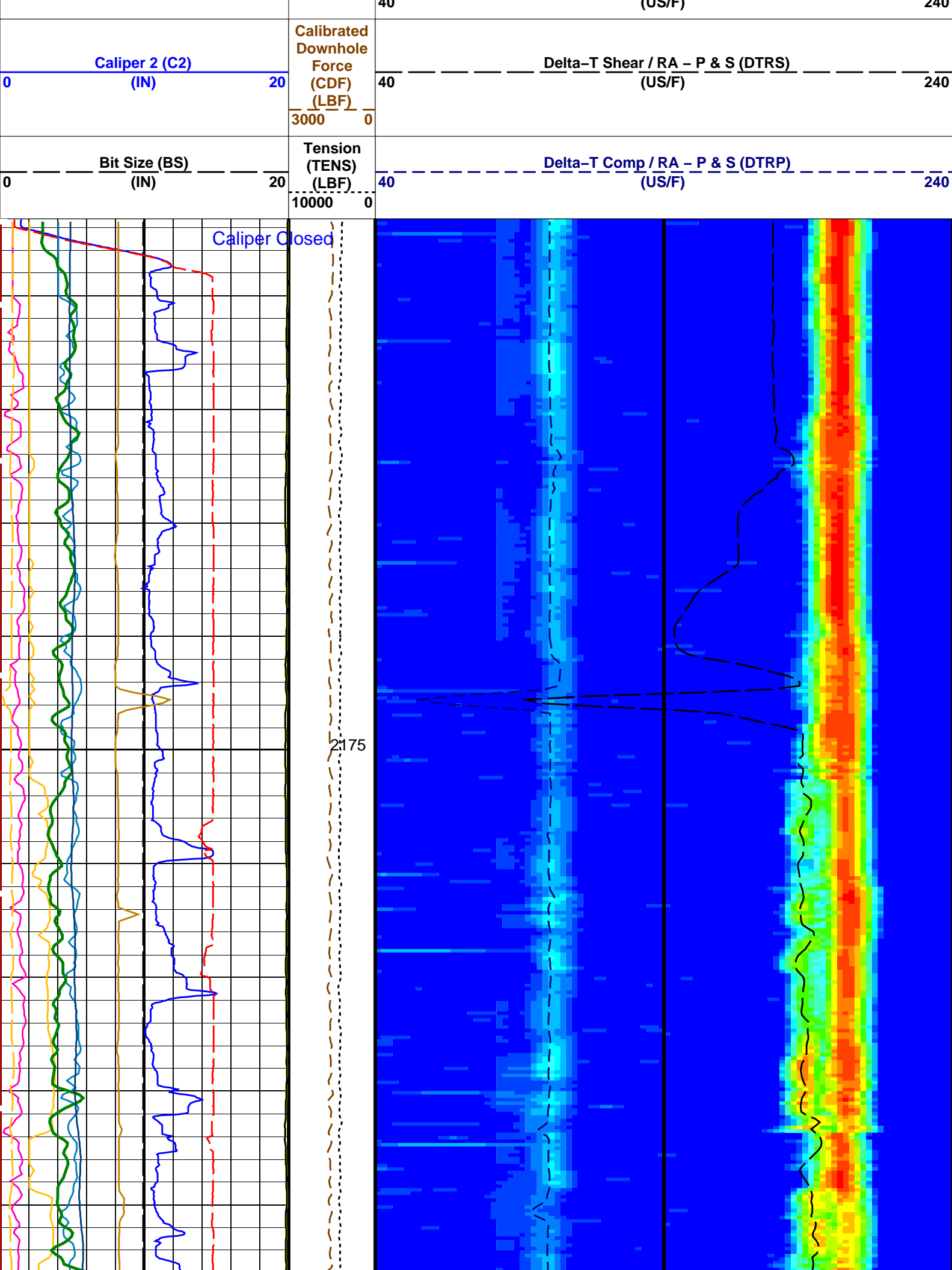
Company: International Ocean Discovery Program				Well: Expedition 395C, Site U1562B		
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Output DLIS Files						
DEFAULT	FMS_DSI_NGS_033PUP	FN:55	PRODUCER	20-Jul-2021 05:51	2576.3 M	2151.6 M
BACKUP	FMS_DSI_NGS_033PUP	FN:56	PRODUCER	20-Jul-2021 05:51	2576.3 M	2151.6 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		

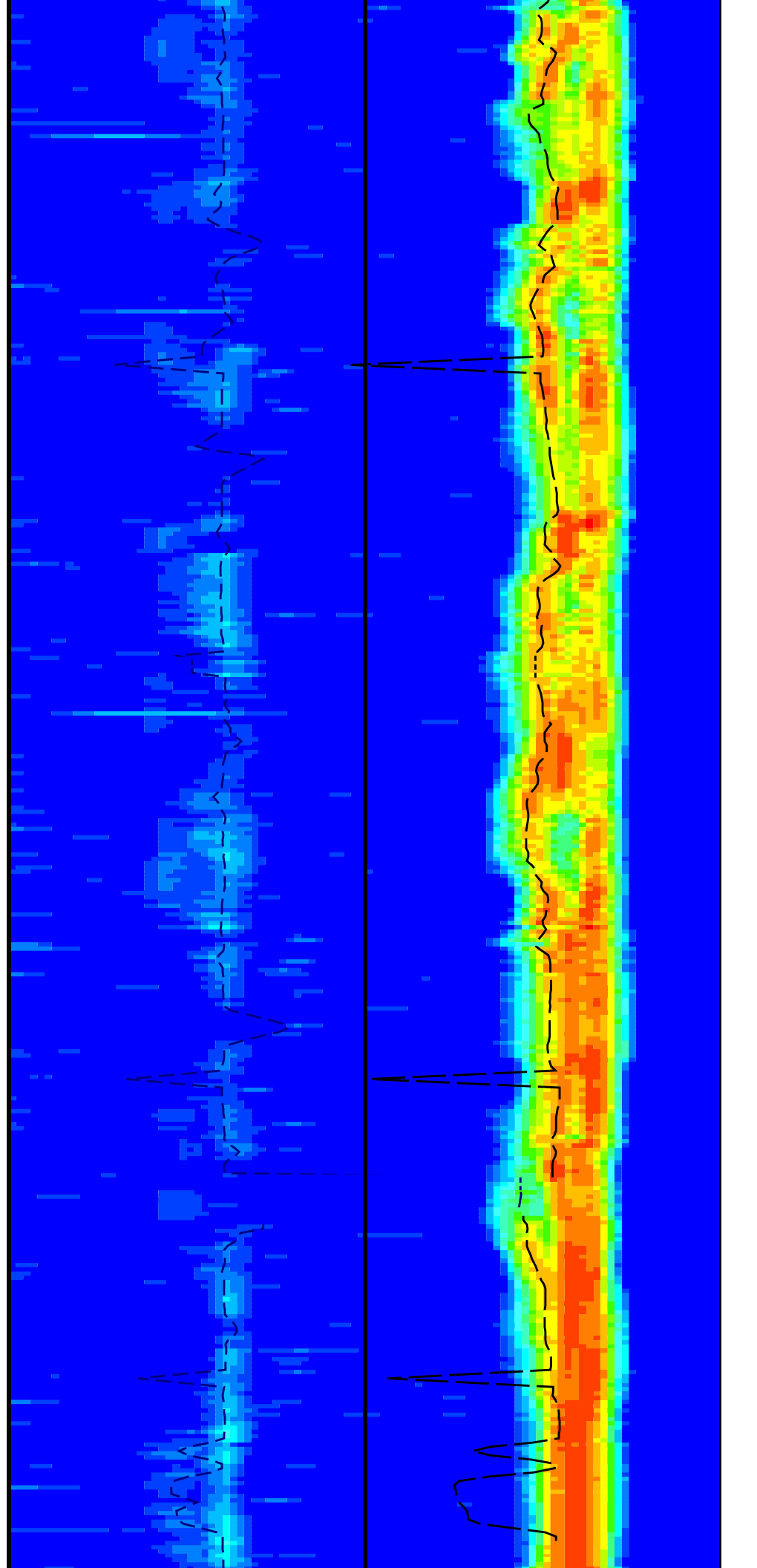
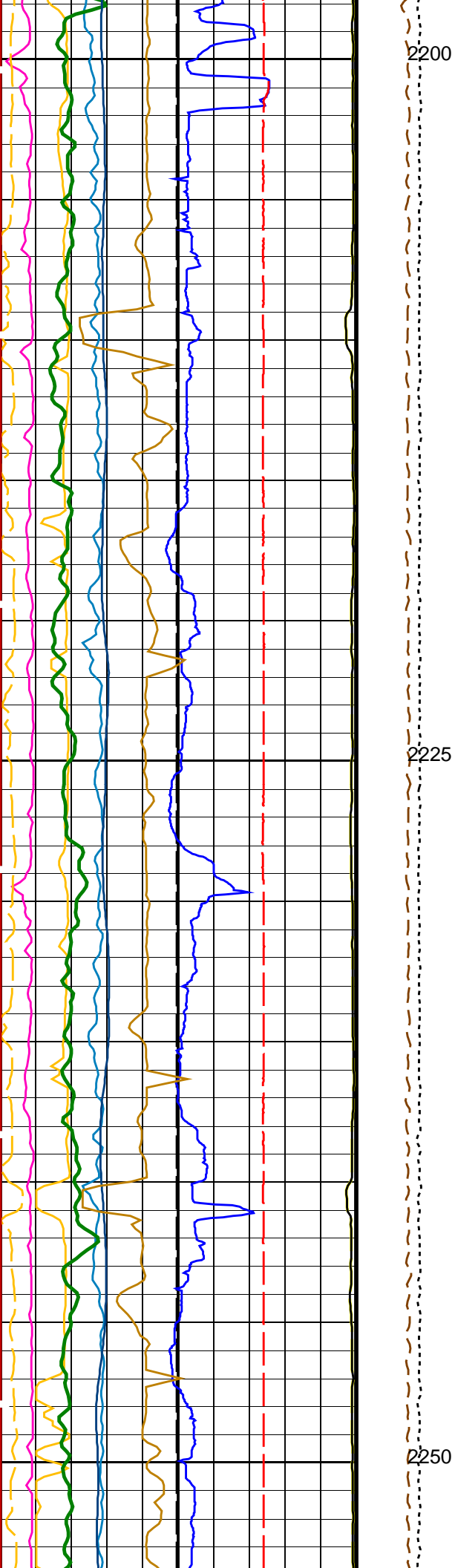
PIP SUMMARY						
Time Mark Every 60 S						

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
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
Caliper 1 (C1)		
0	(IN)	20

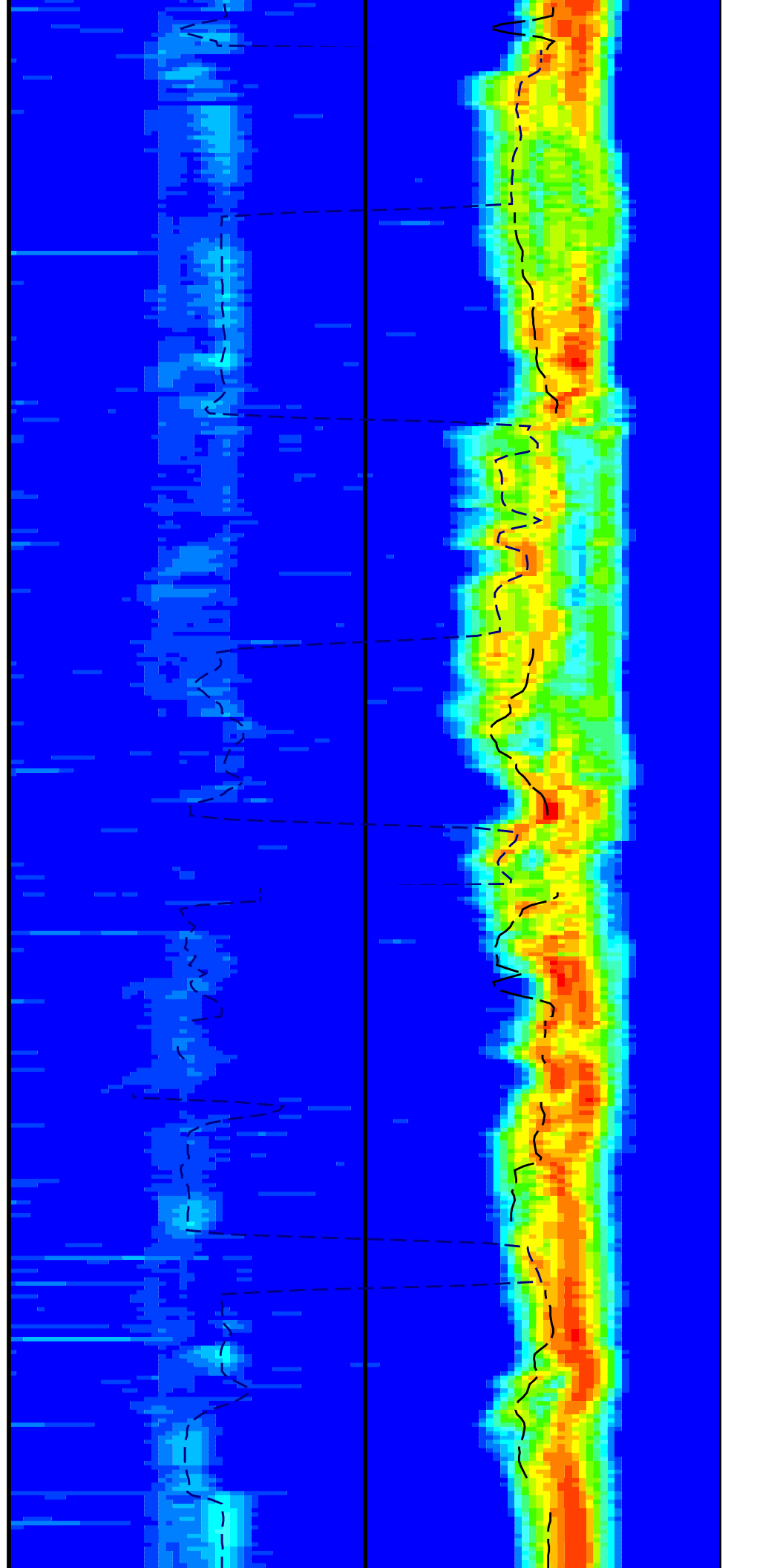
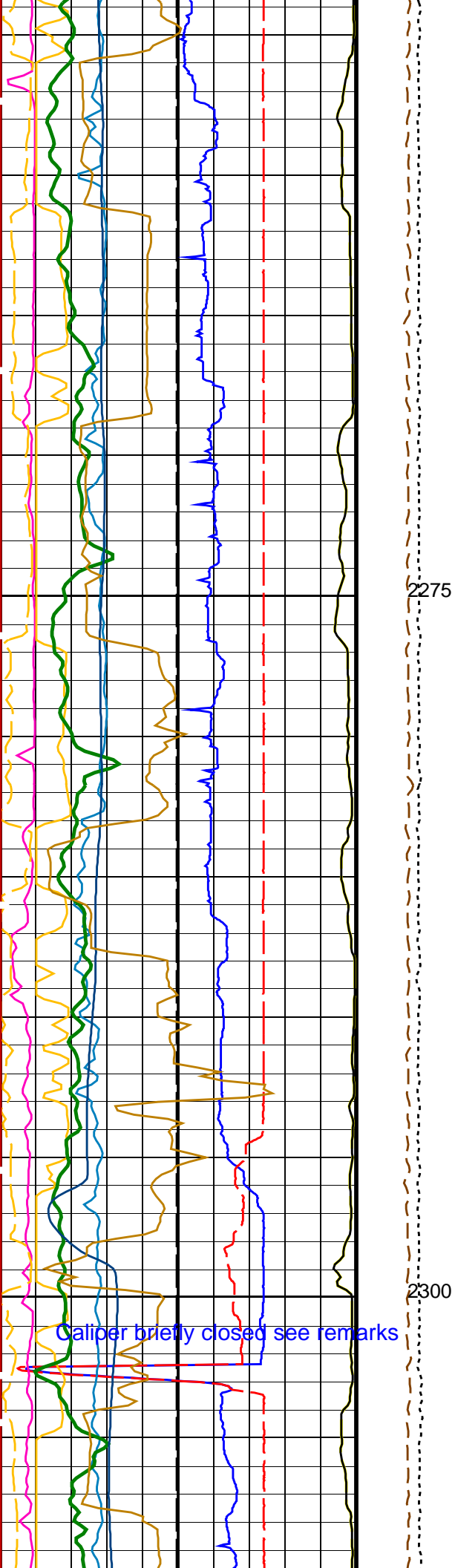
Uplog 1

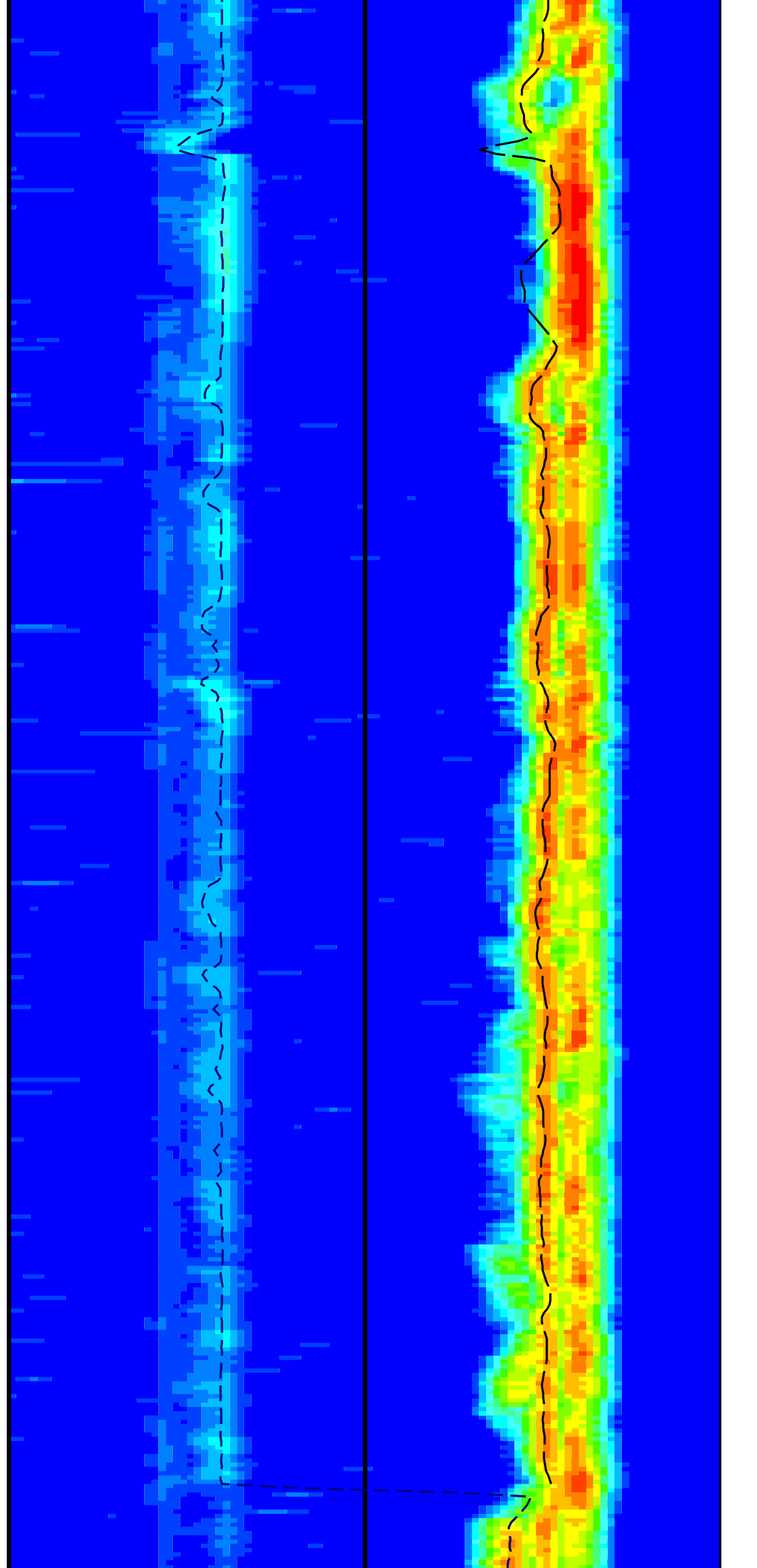
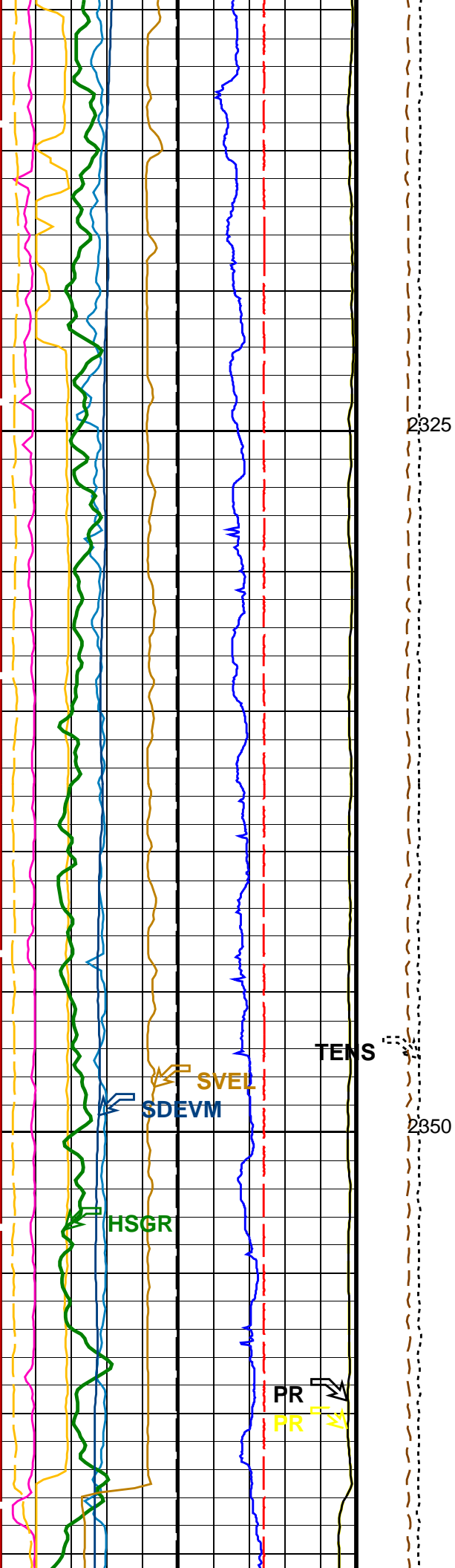


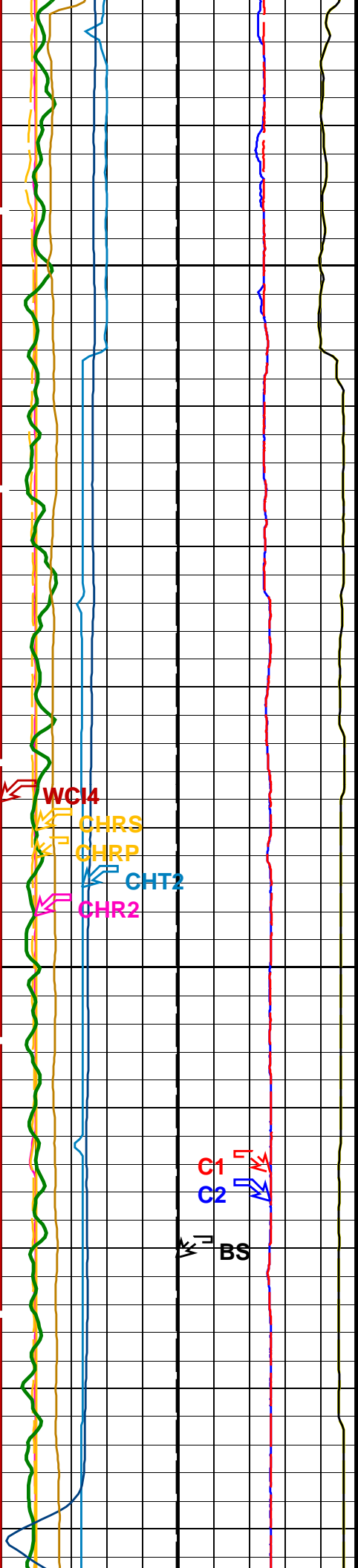








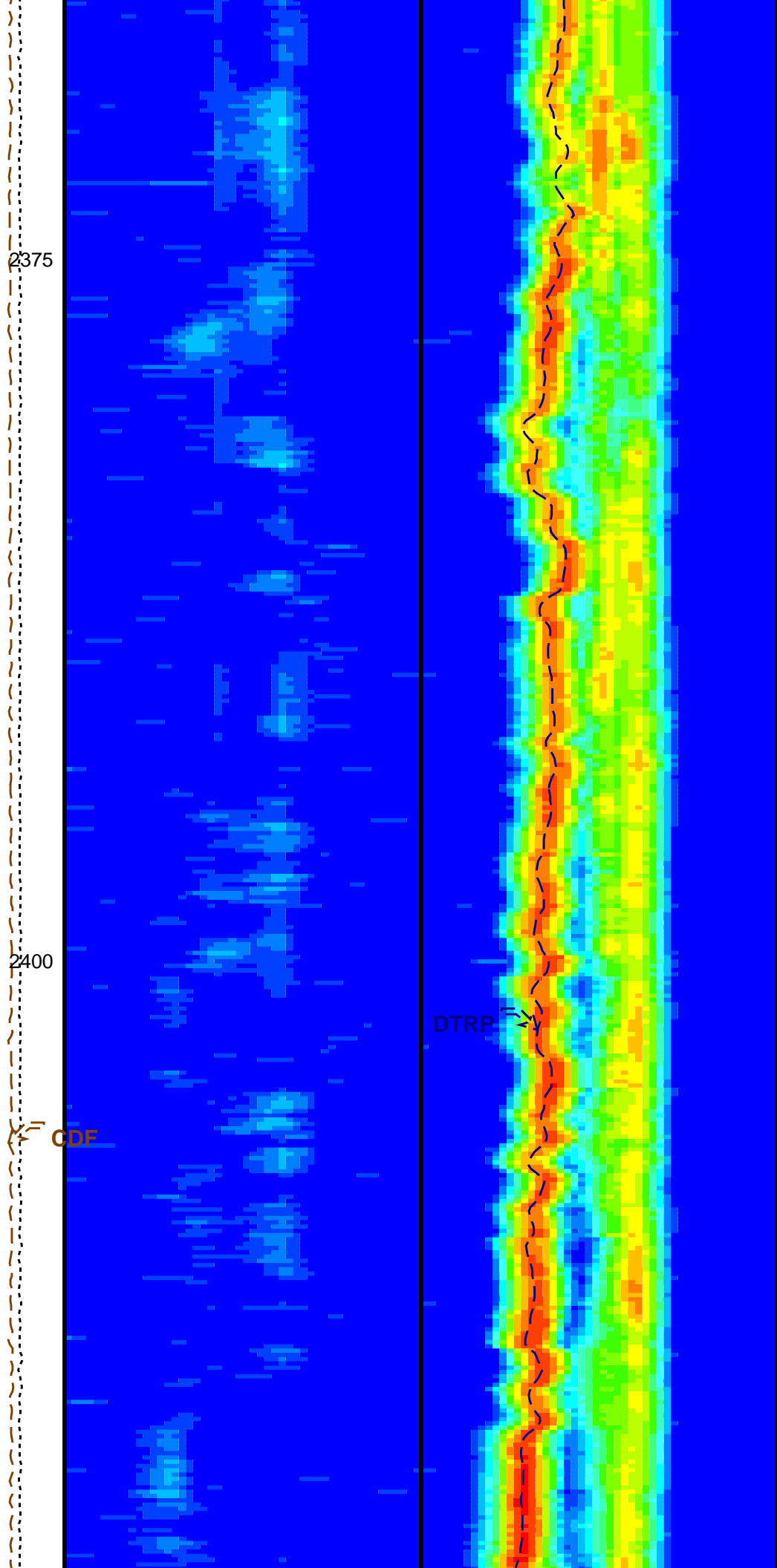


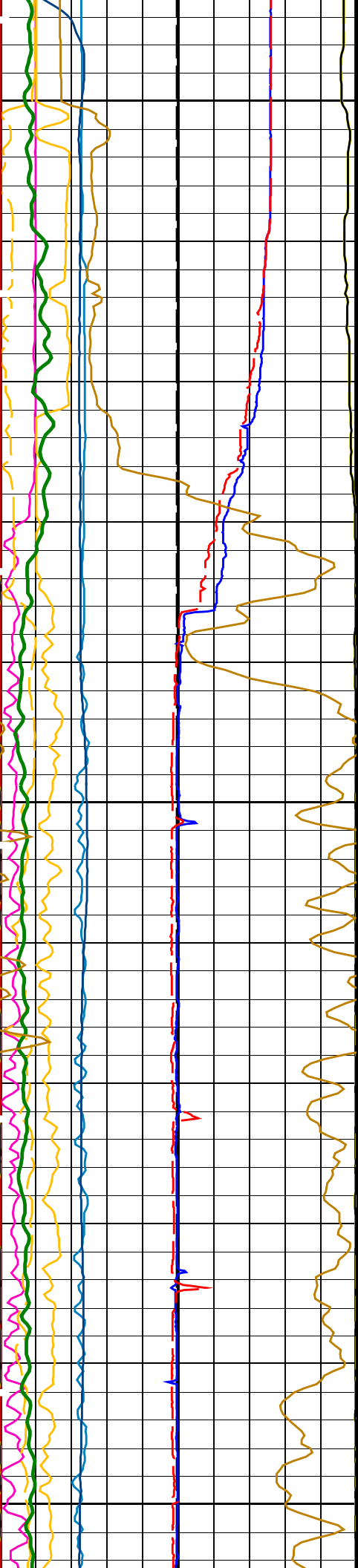


2375

2400

CDF

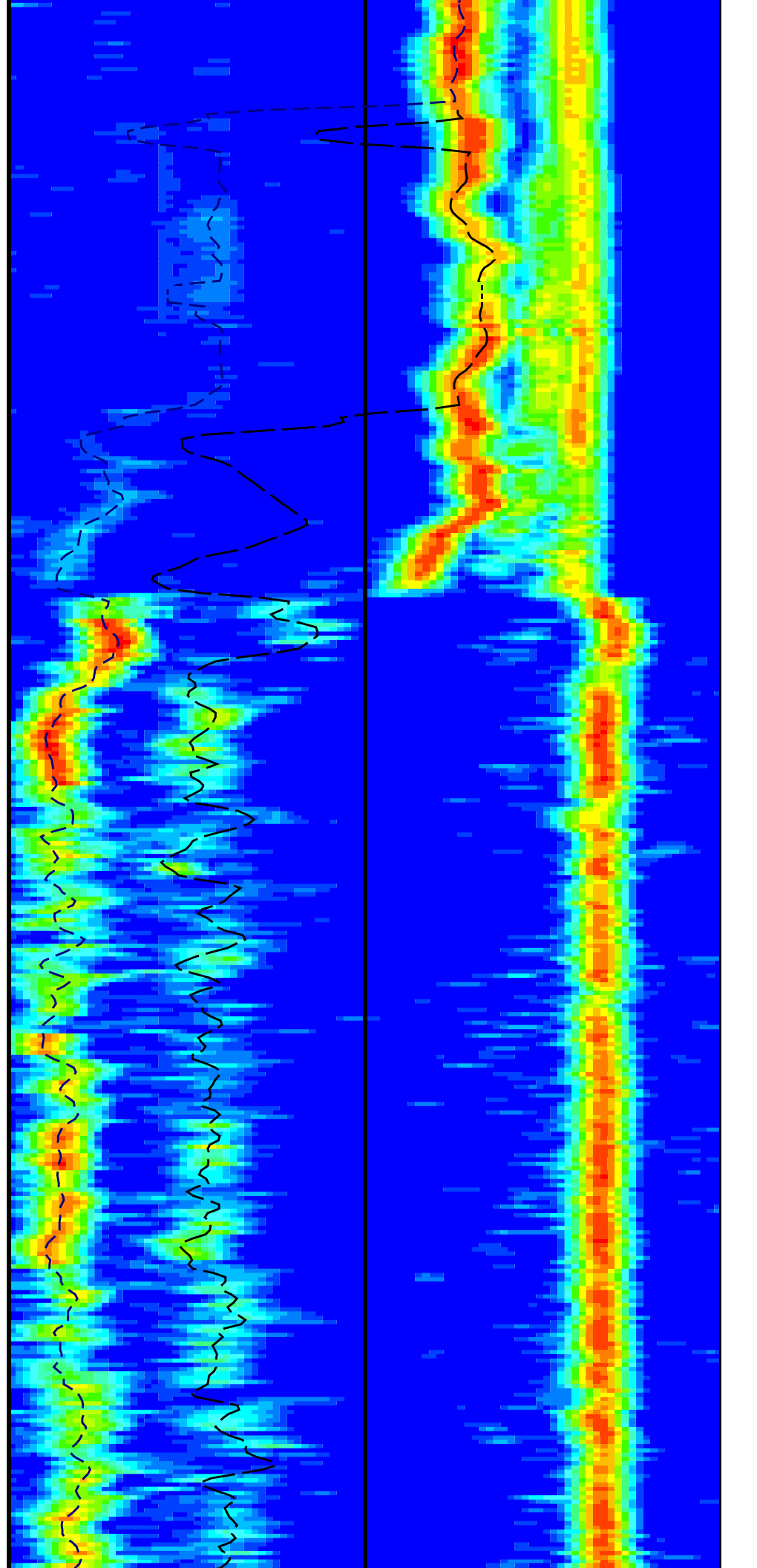


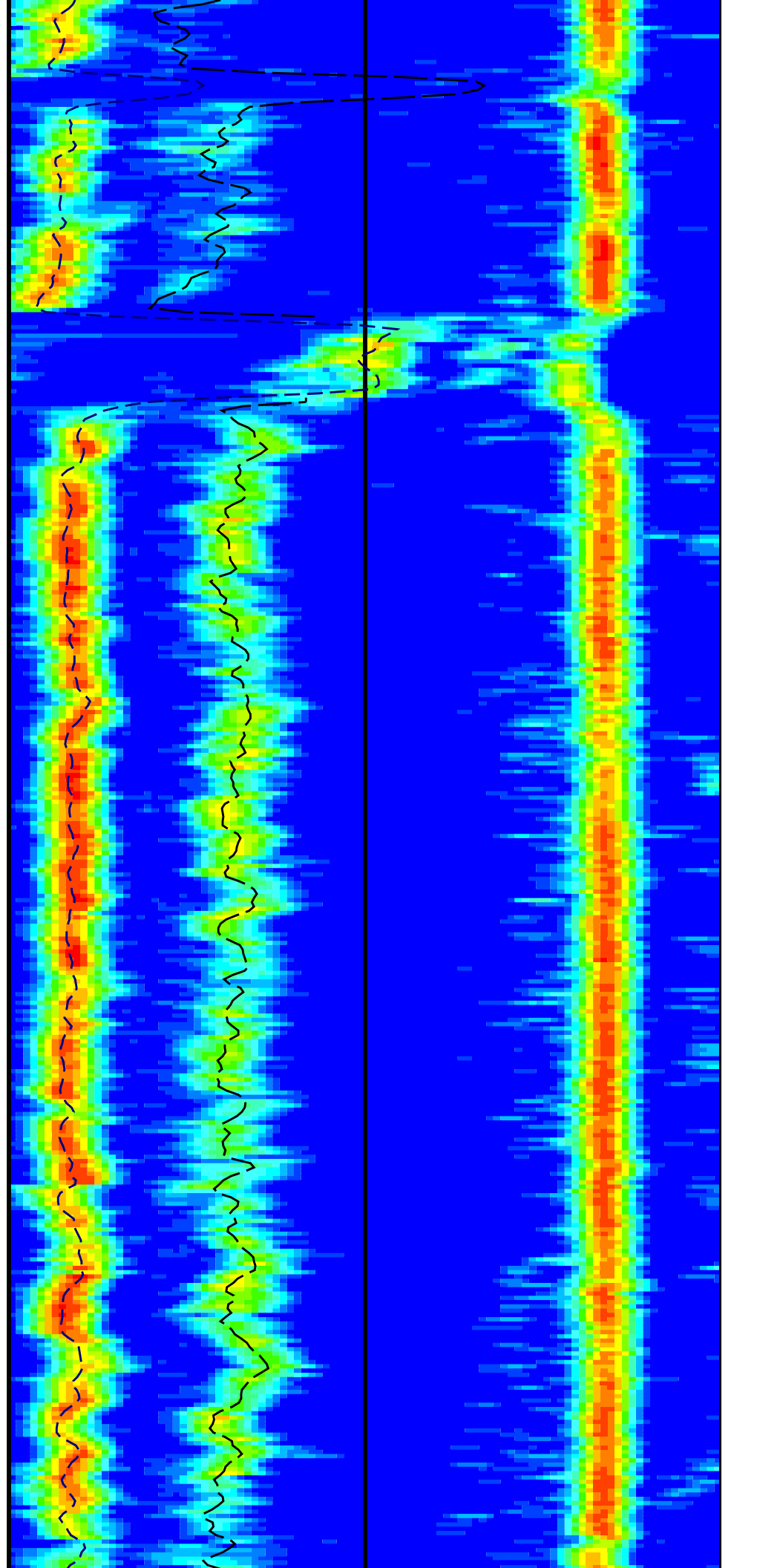
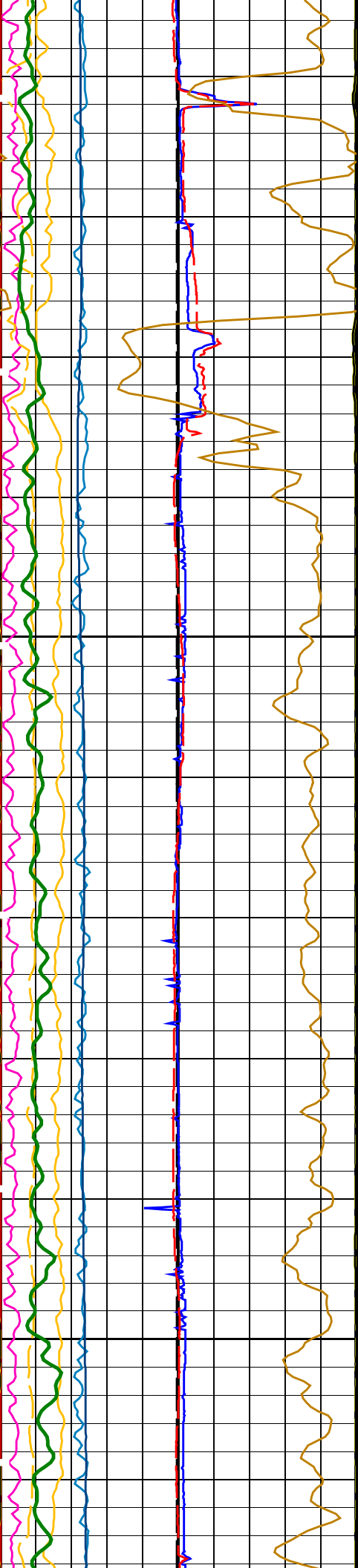


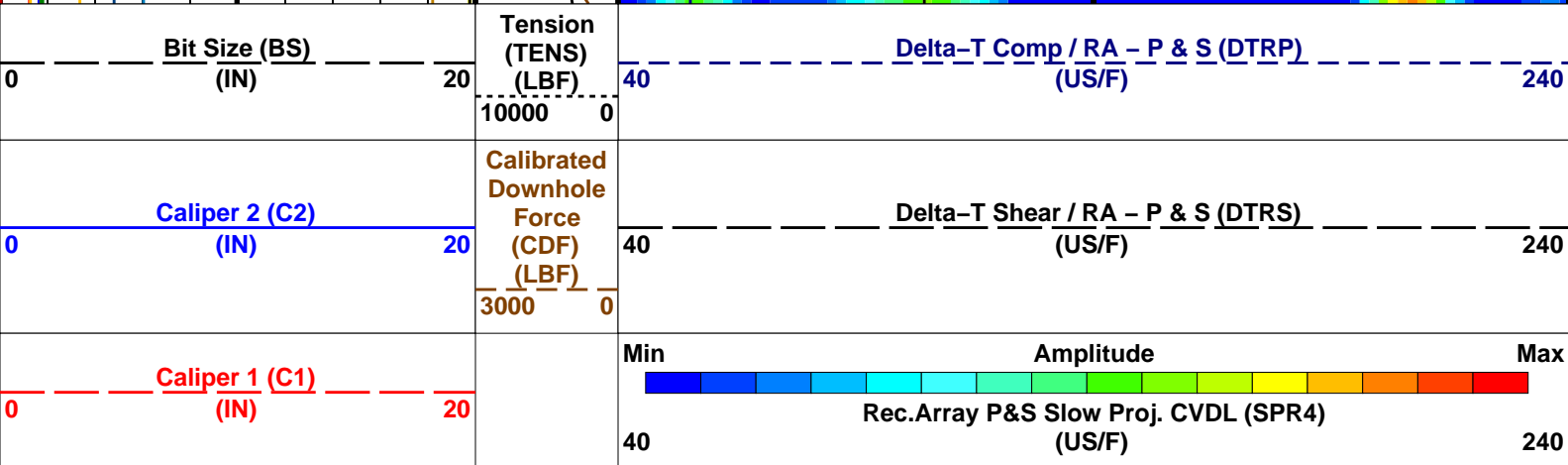
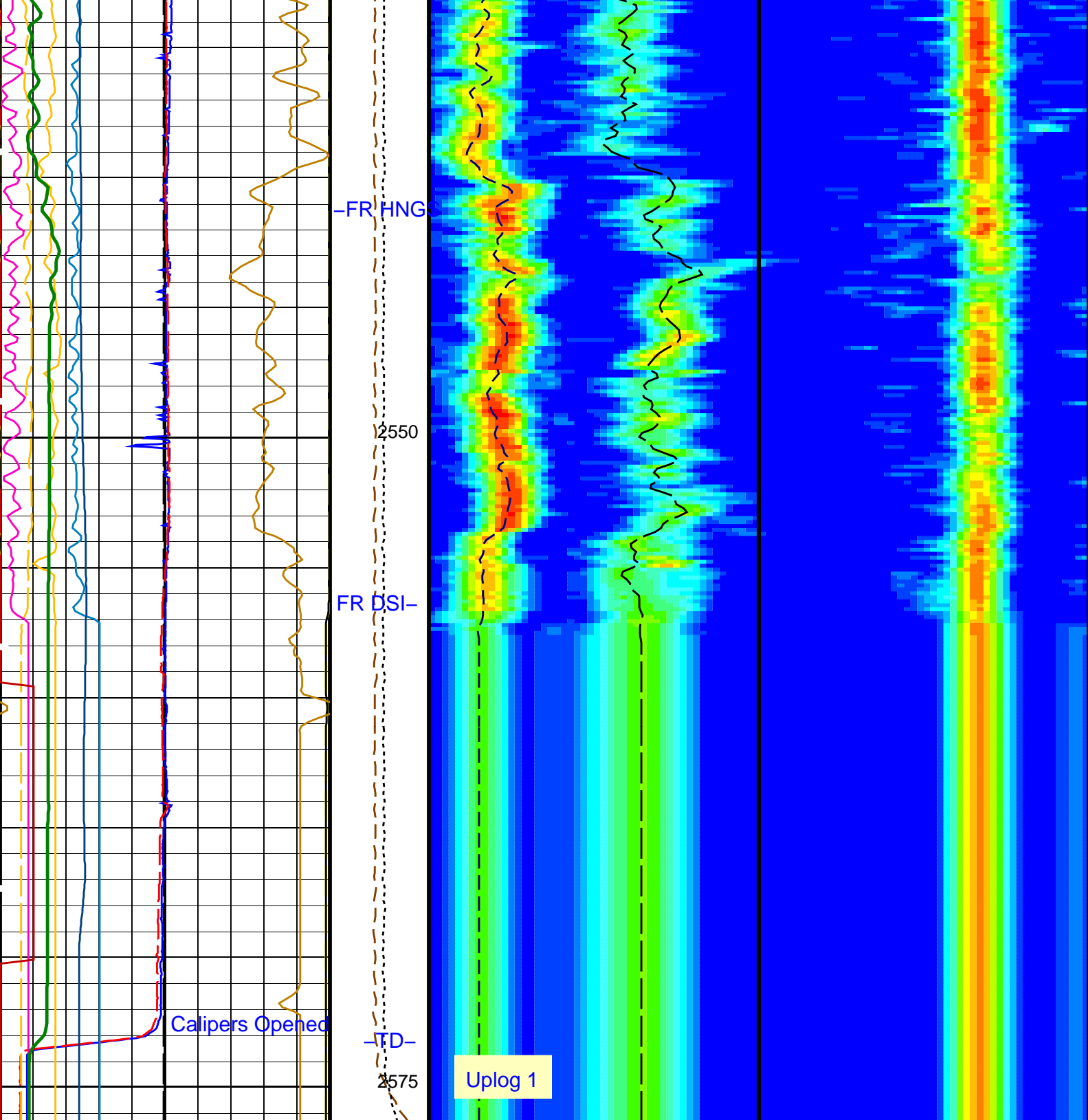
2425

2450

2475







Poisson's Ratio (PR)		
0	(----)	0.5
Sonde Deviation (SDEVM)		
0	(DEG)	10
Sonic Velocity (SVEL)		
1000	(M/S)	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
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

PIP SUMMARY			
<input type="checkbox"/>	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	-13.045	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	40	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
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	400	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_SHEAR	
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

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	70	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	
HNGB–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGB Detector 1 Barite Constant	1	
BAR2	HNGB Detector 2 Barite Constant	1	
BHK	HNGB 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	HNGB Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGB Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGB Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGB Borehole Potassium Running Average	–0.0020805	
HALF	HNGB Alpha Filter Length	60	IN
HCRB	HNGB Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGB Processing Enable	YES	
S1BI	HNGB Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGB Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGB Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGB Detector 1 Variable Barite Factor Running Average	1.00957	
VBA2	HNGB Detector 2 Variable Barite Factor Running Average	1.03663	
System and Miscellaneous			
BS	Bit Size	9.875	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: 20–Jul–2021 05:51

## OP System Version: 19C0–187

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

## Input DLIS Files

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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_033PUP	FN:55	PRODUCER	20–Jul–2021 05:51
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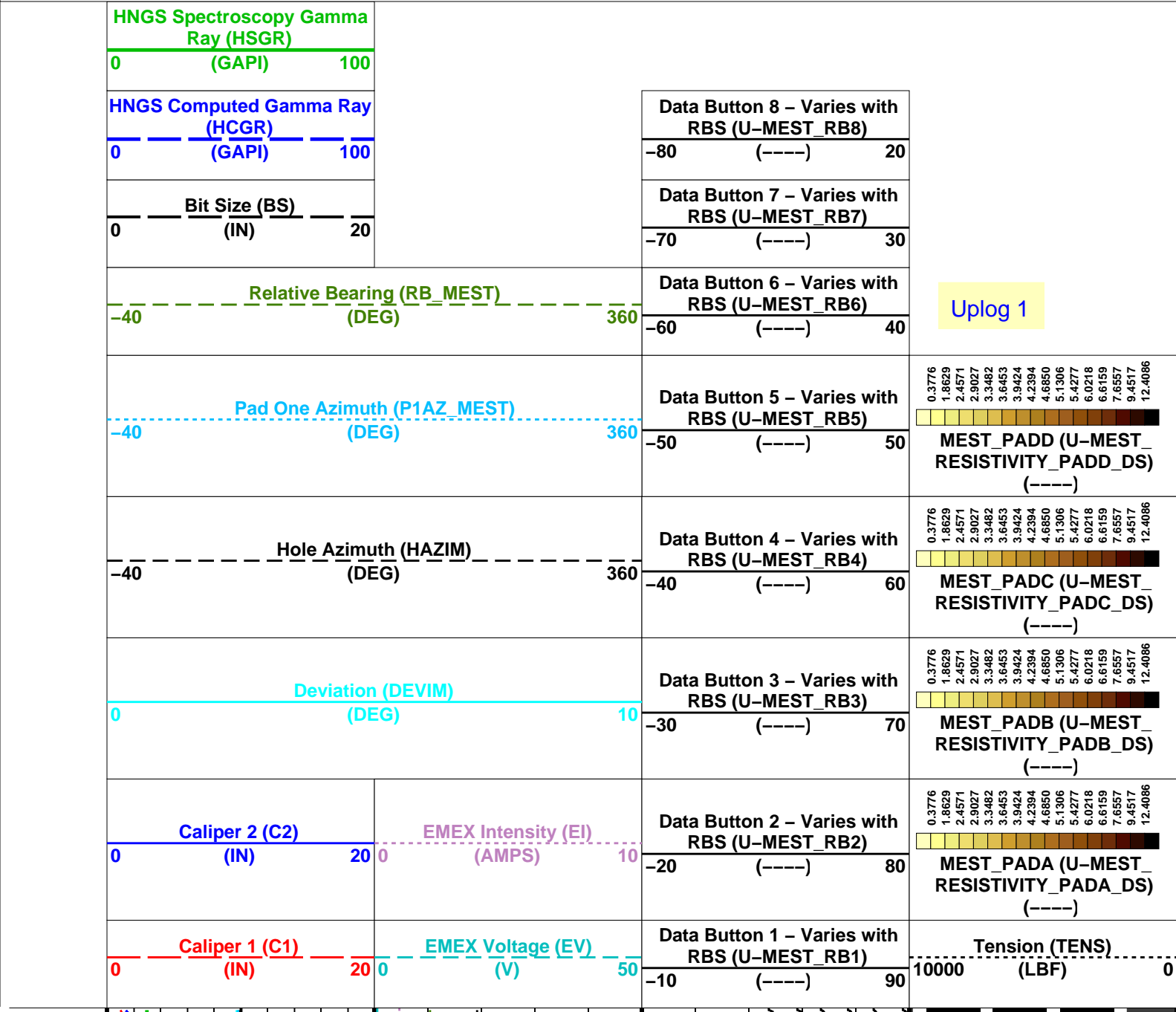


Input DLIS Files						
DEFAULT	FMS_DSI_NGS_027LUP	FN:45	PRODUCER	20-Jul-2021 03:15	2576.3 M	2151.6 M
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_033PUP	FN:55	PRODUCER	20-Jul-2021 05:51	2576.3 M	2151.6 M
BACKUP	FMS_DSI_NGS_033PUP	FN:56	PRODUCER	20-Jul-2021 05:51	2576.3 M	2151.6 M

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

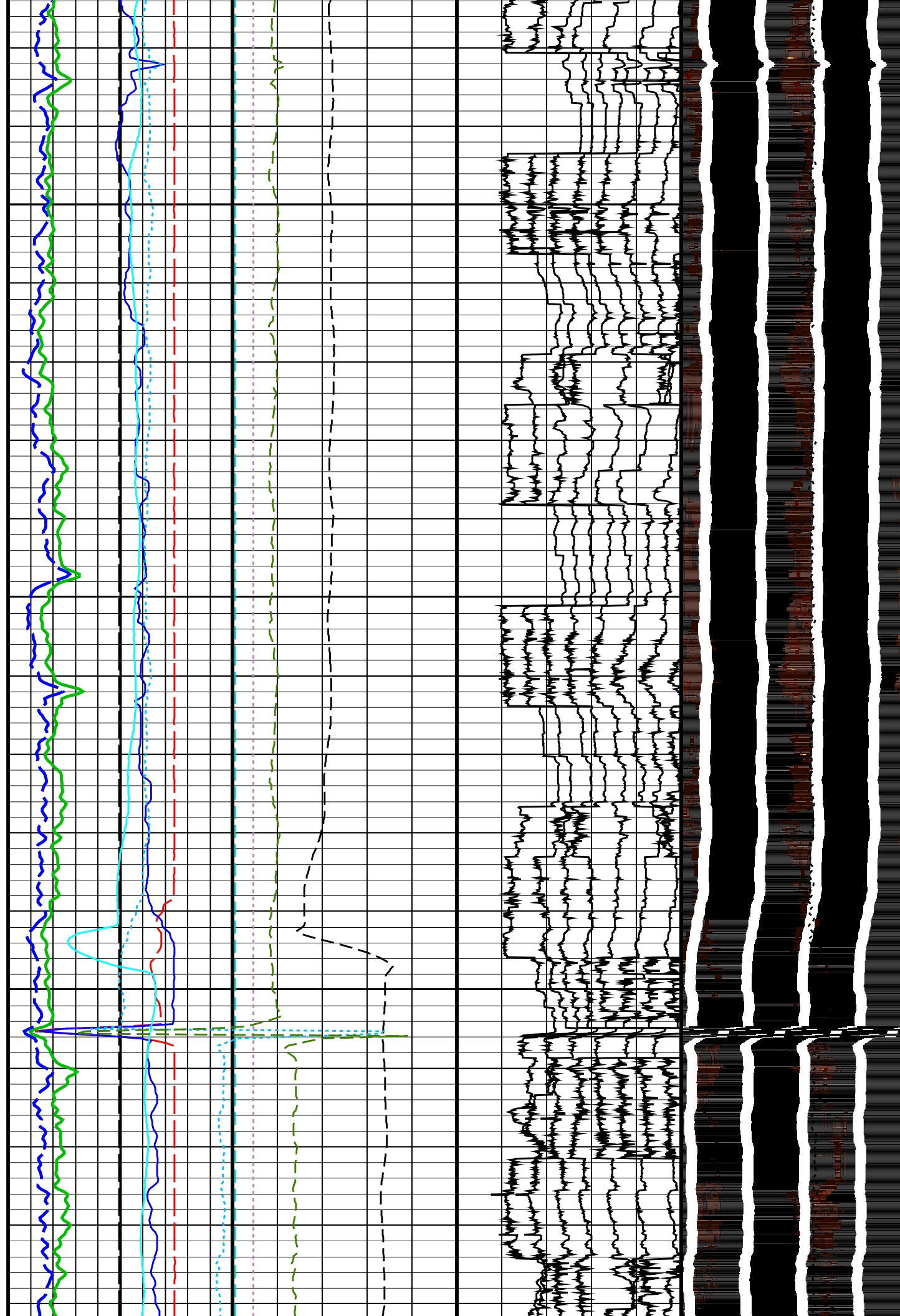


## Calipers Closed

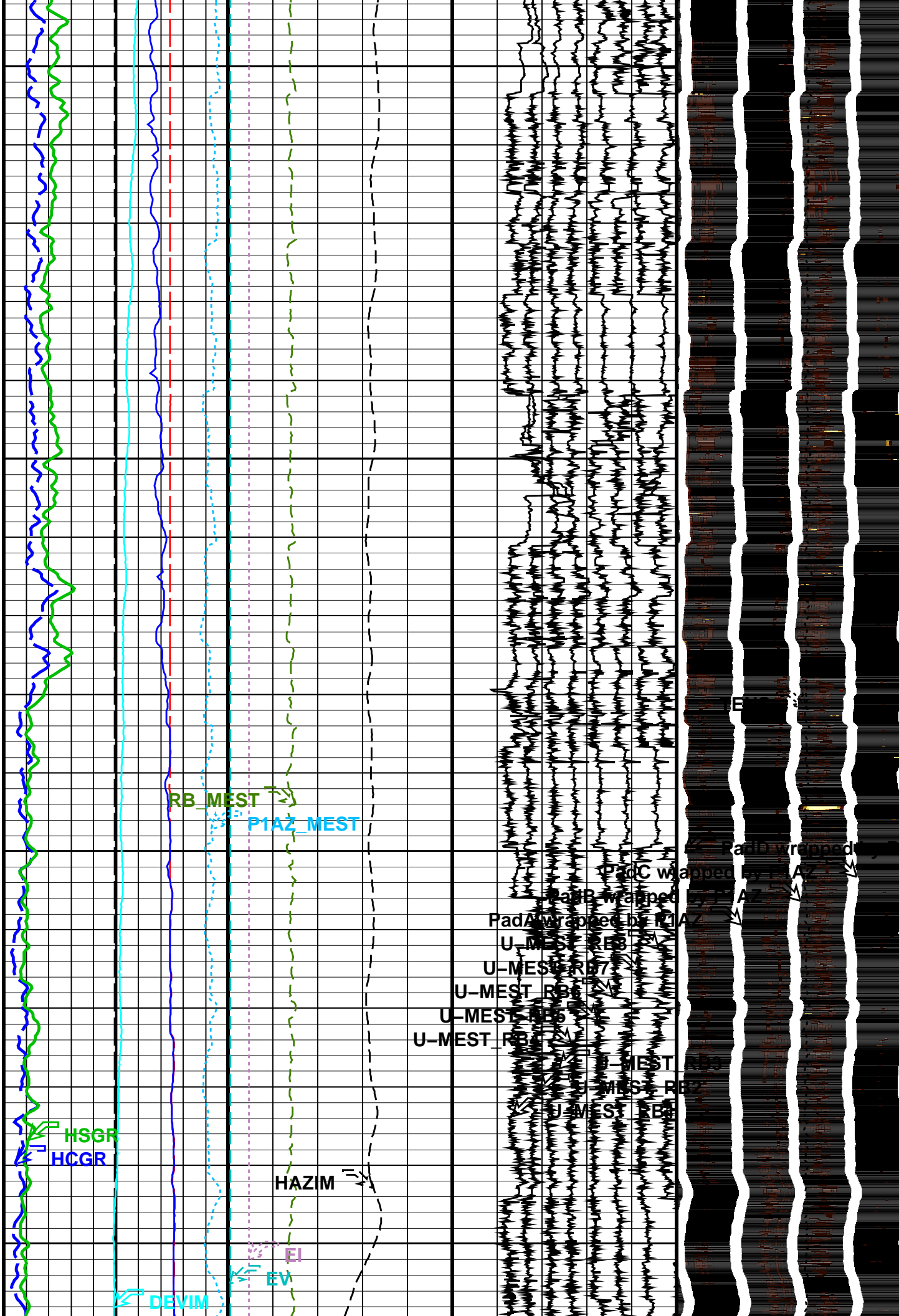
2200

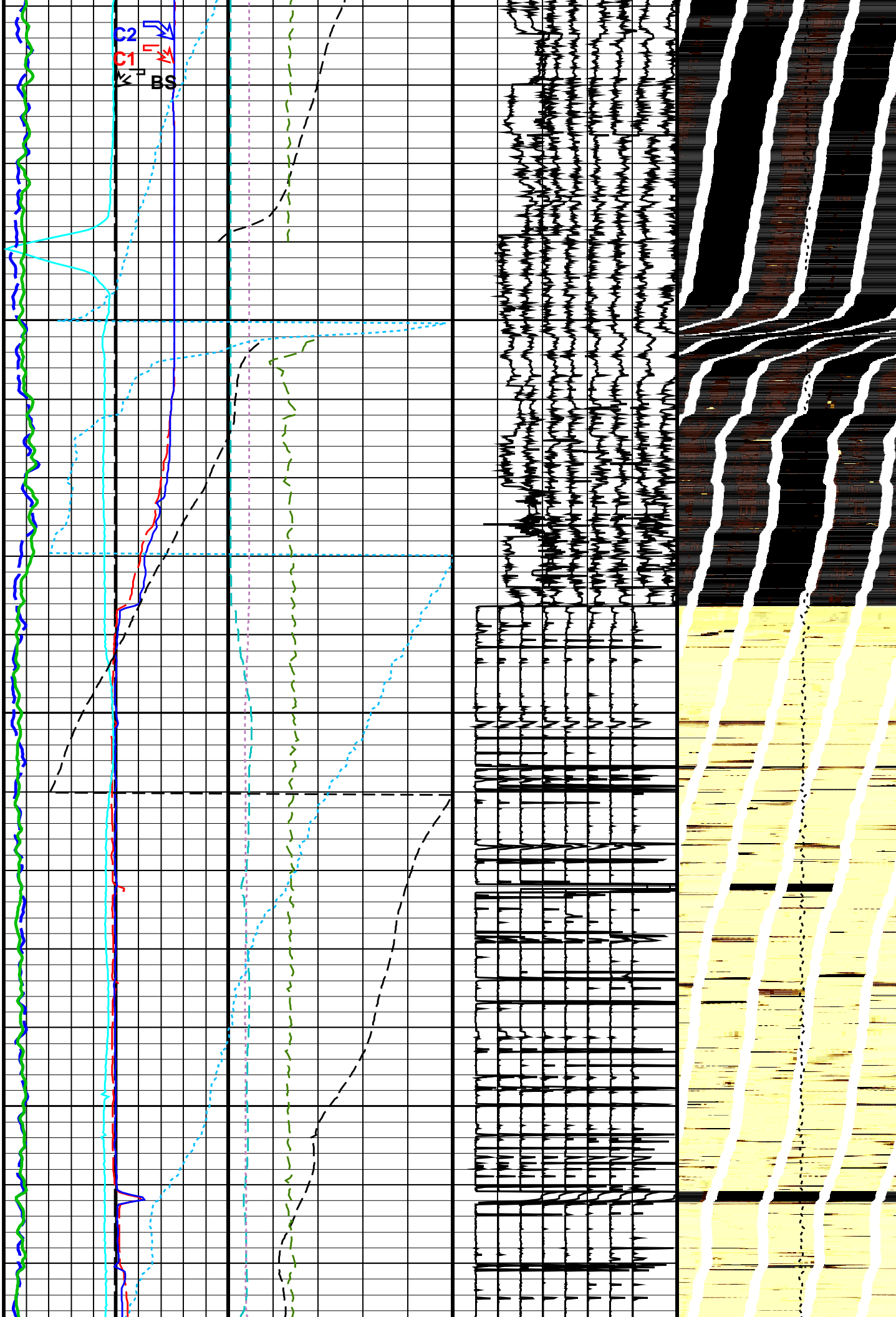
2250

2300

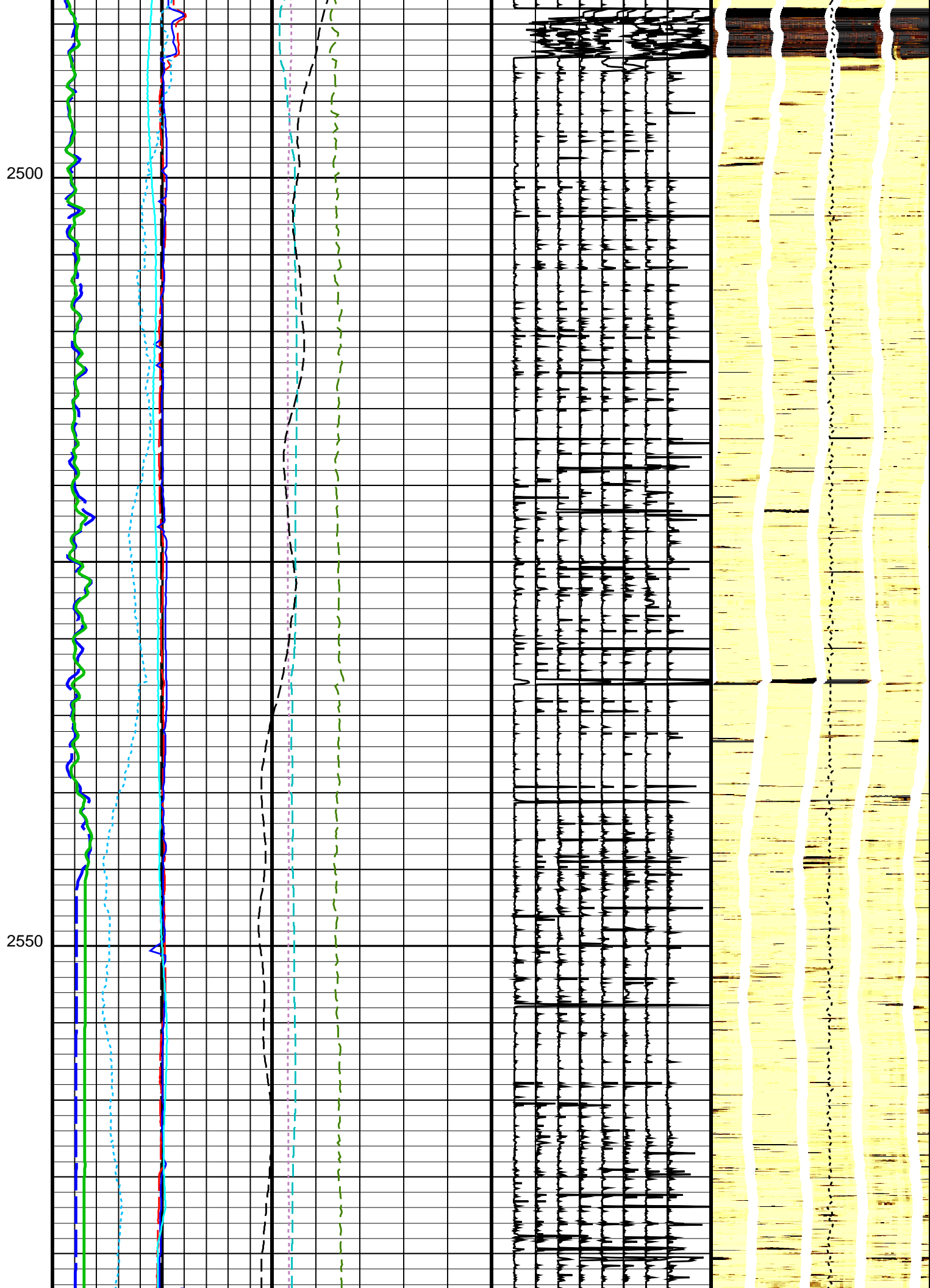


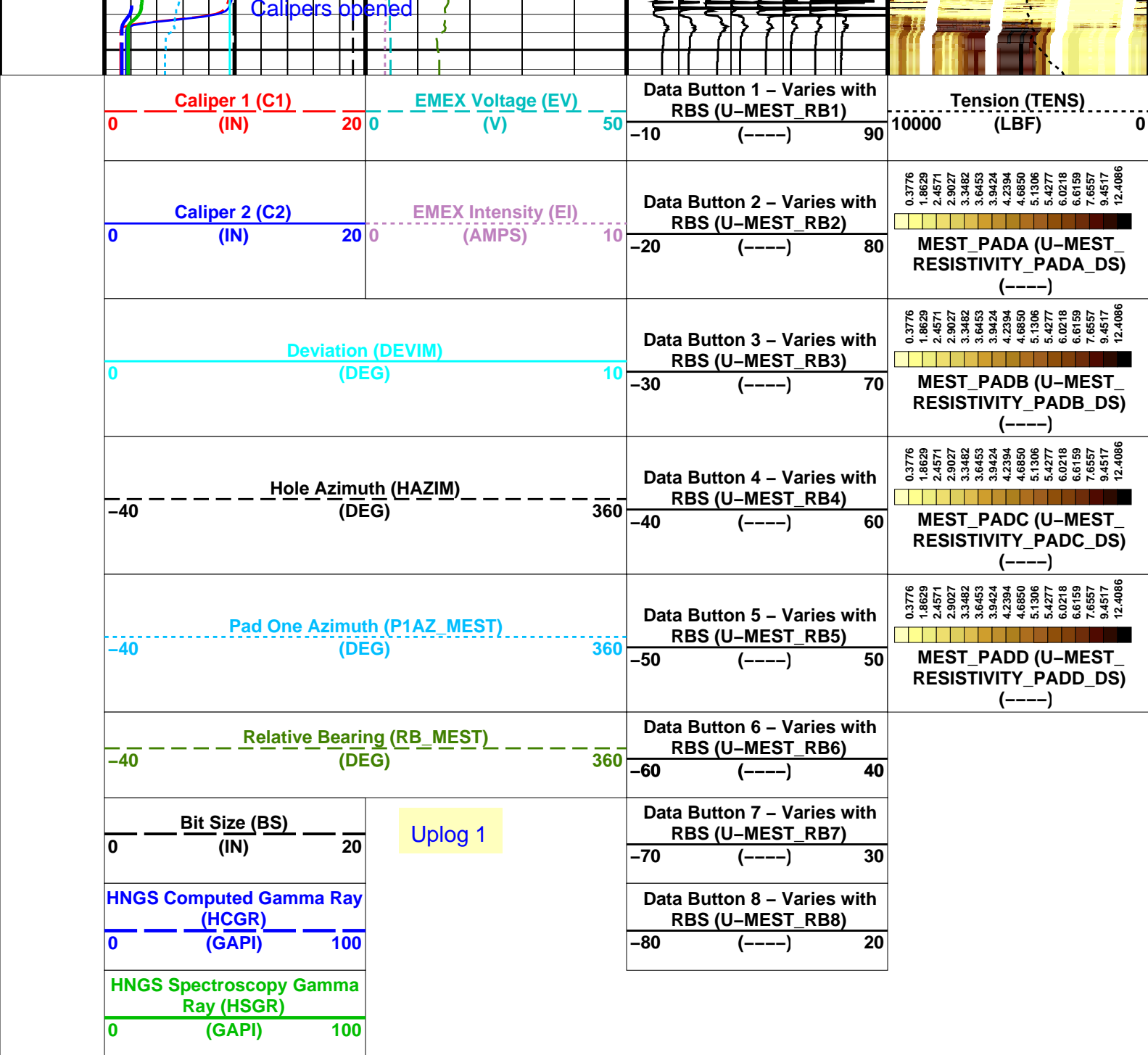
2400











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	-13.045 DEG
MLM	MEST Logging Mode	SCAN1800
RBS	Resistivity Button Selection	AUTO
XGAI	Gain	GAIN_2
XOFF	Offset	OFFSET_0
DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	C1
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN

CSDZ	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	-0.0020805	
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	1.00957	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03663	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST\_C\_WRAP\_BY\_P1AZ    Vertical Scale: 1:300    Graphics File Created: 20-Jul-2021 05:51

### OP System Version: 19C0-187

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

### Input DLIS Files

DEFAULT	FMS_DSI_NGS_027LUP	FN:45	PRODUCER	20-Jul-2021 03:15	2576.3 M	2151.6 M
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### Output DLIS Files

DEFAULT	FMS_DSI_NGS_033PUP	FN:55	PRODUCER	20-Jul-2021 05:51		
BACKUP	FMS_DSI_NGS_033PUP	FN:56	PRODUCER	20-Jul-2021 05:51		

### Input DLIS Files

DEFAULT	FMS_DSI_NGS_028LUP	FN:47	PRODUCER	20-Jul-2021 04:31	2576.3 M	1986.7 M
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### Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:57	PRODUCER	20-Jul-2021 05:53	2576.3 M	1986.7 M
BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20-Jul-2021 05:53	2576.3 M	1986.7 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

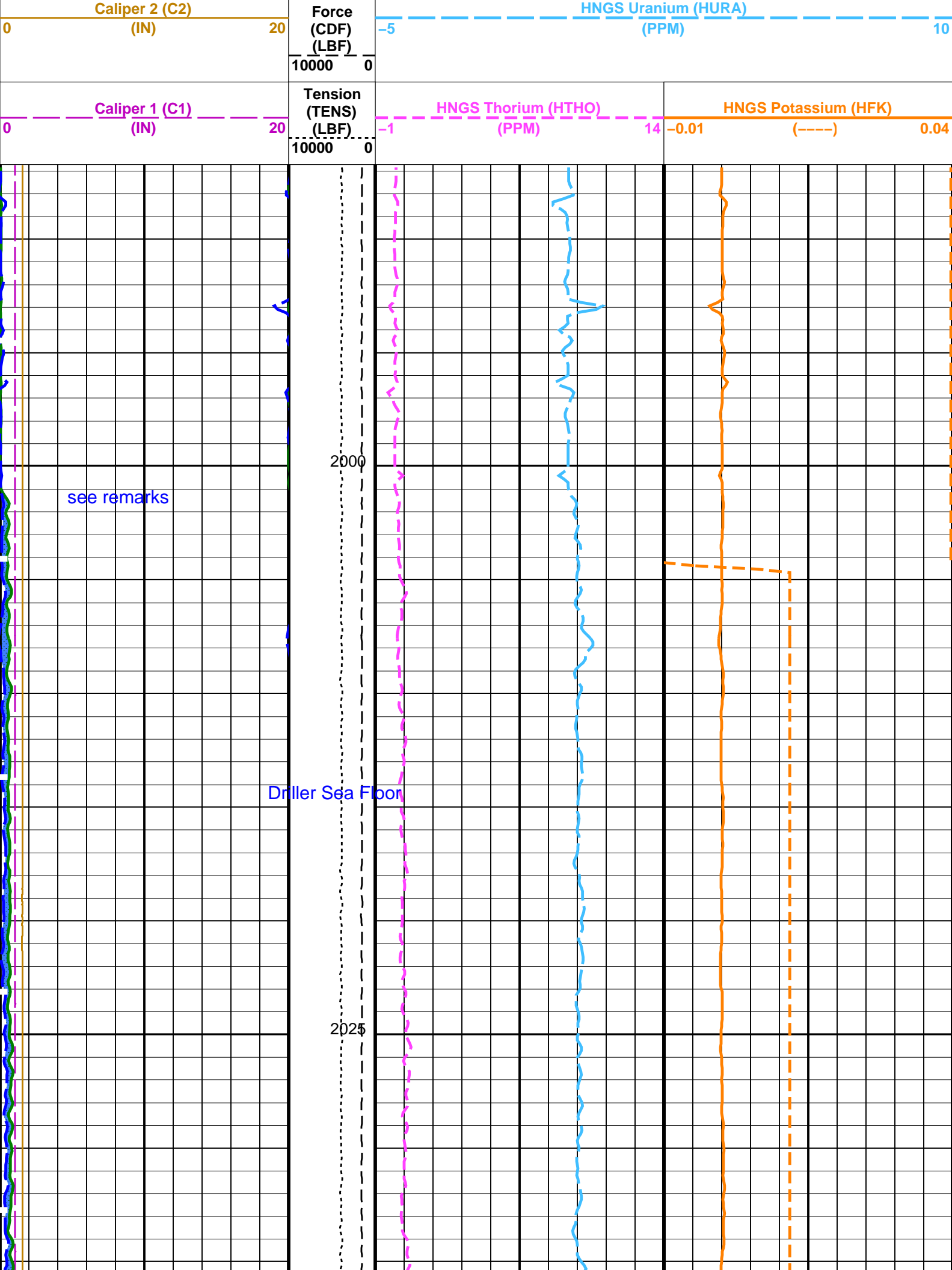
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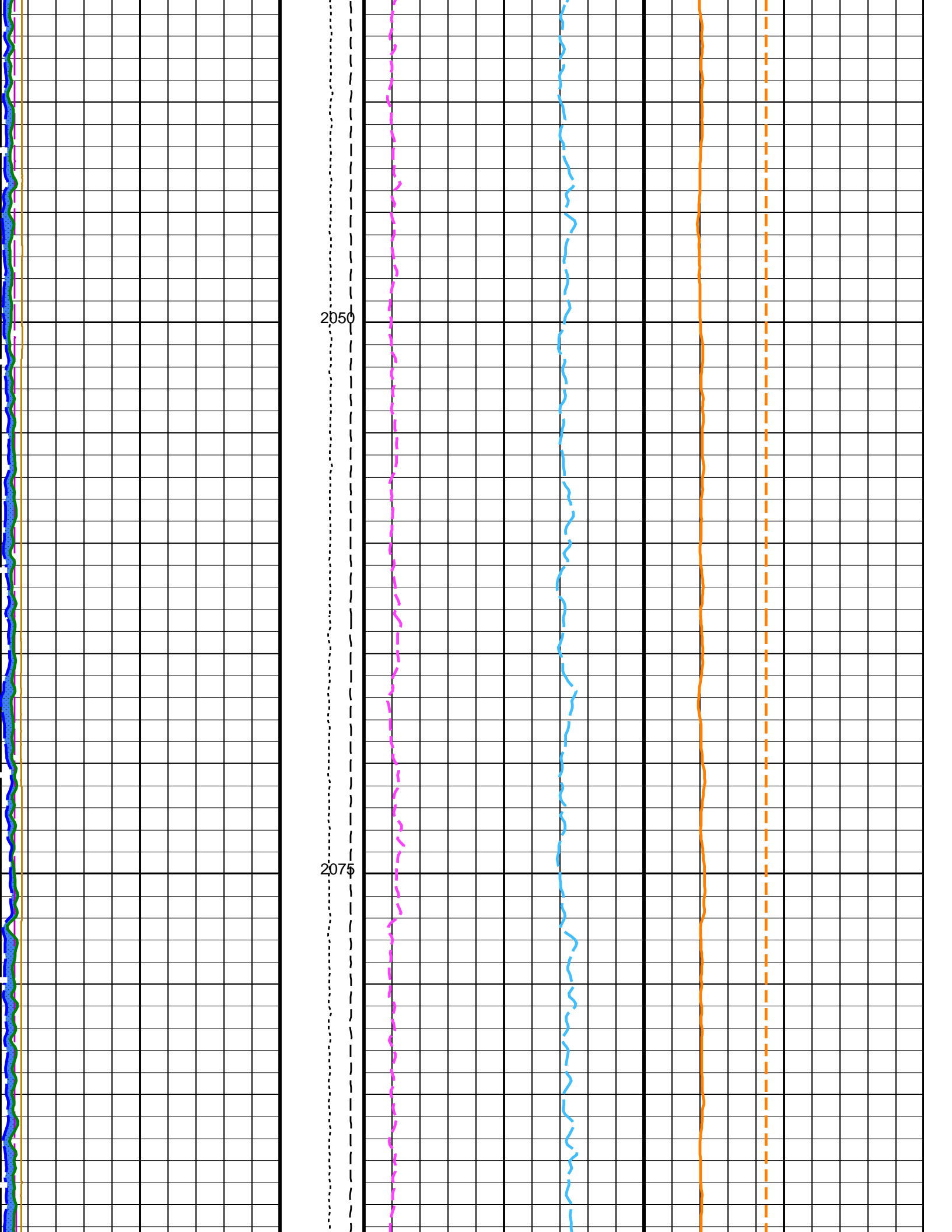
 Time Mark Every 60 S

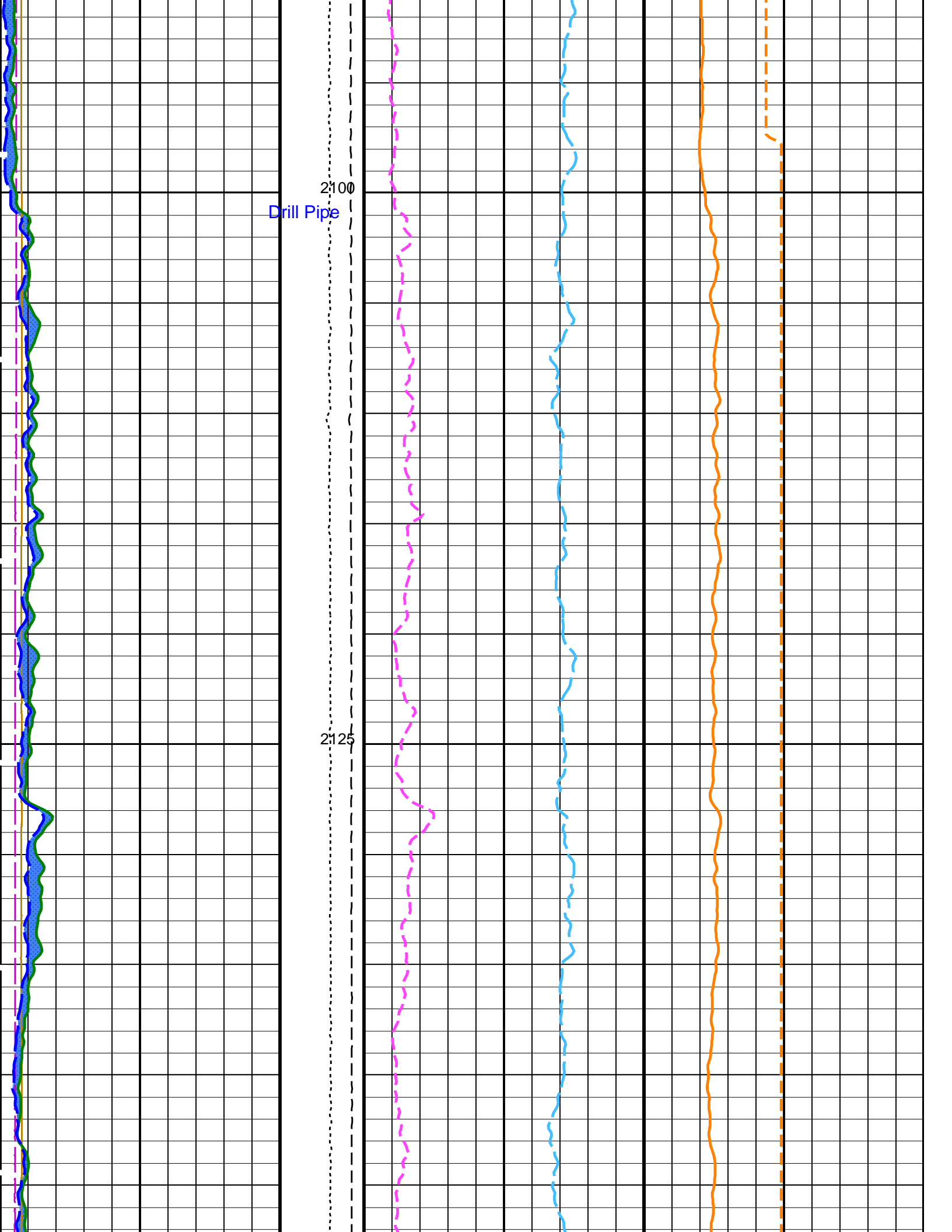


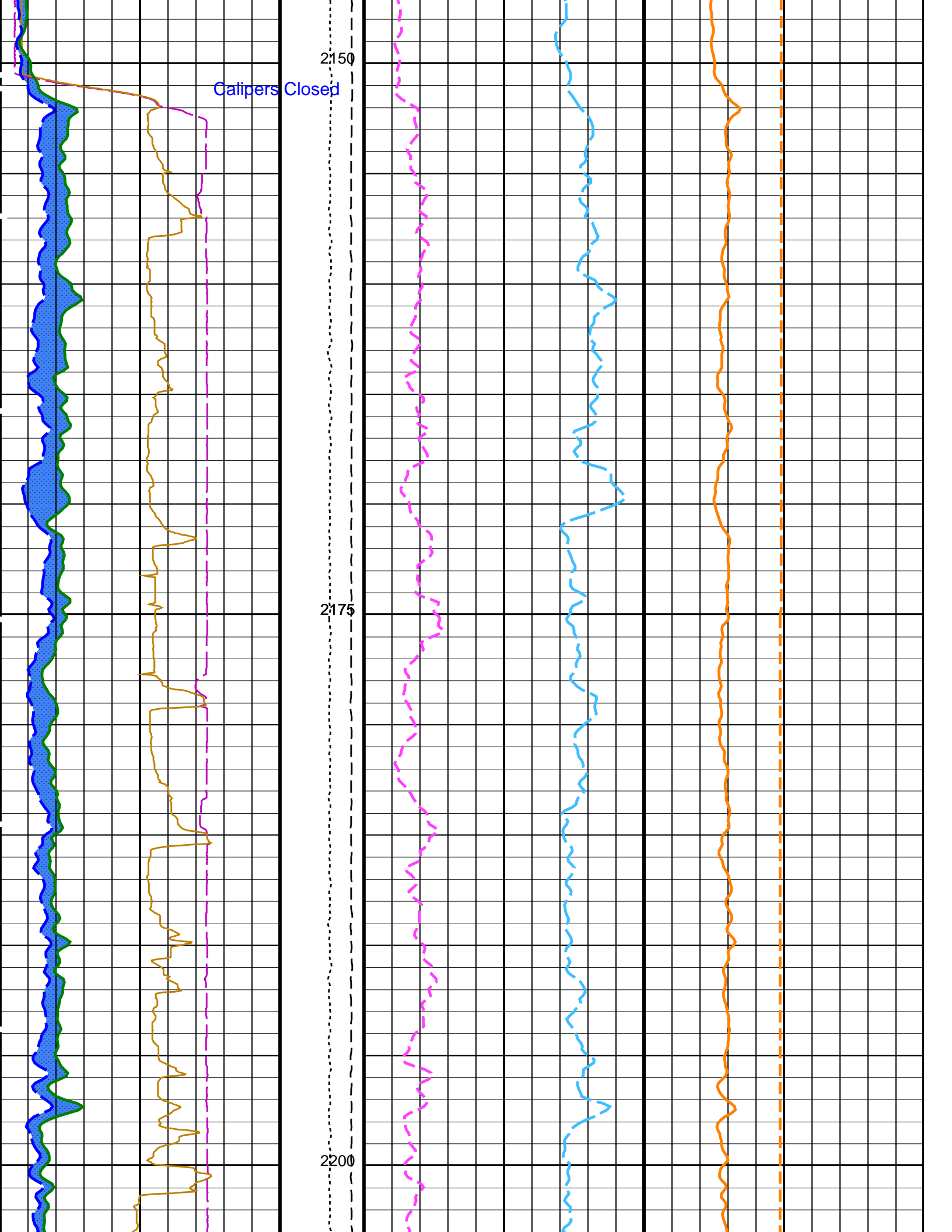
Calibrated  
Downhole

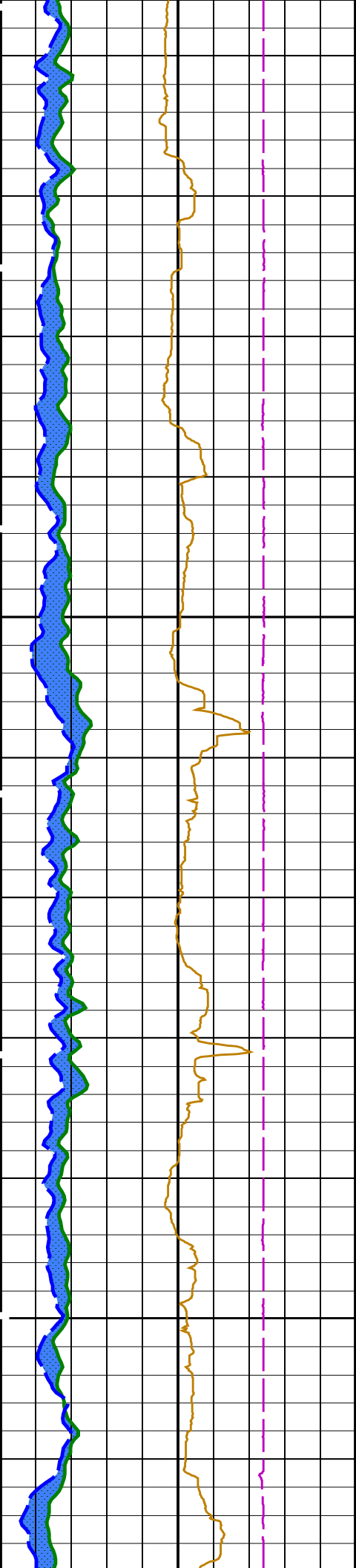






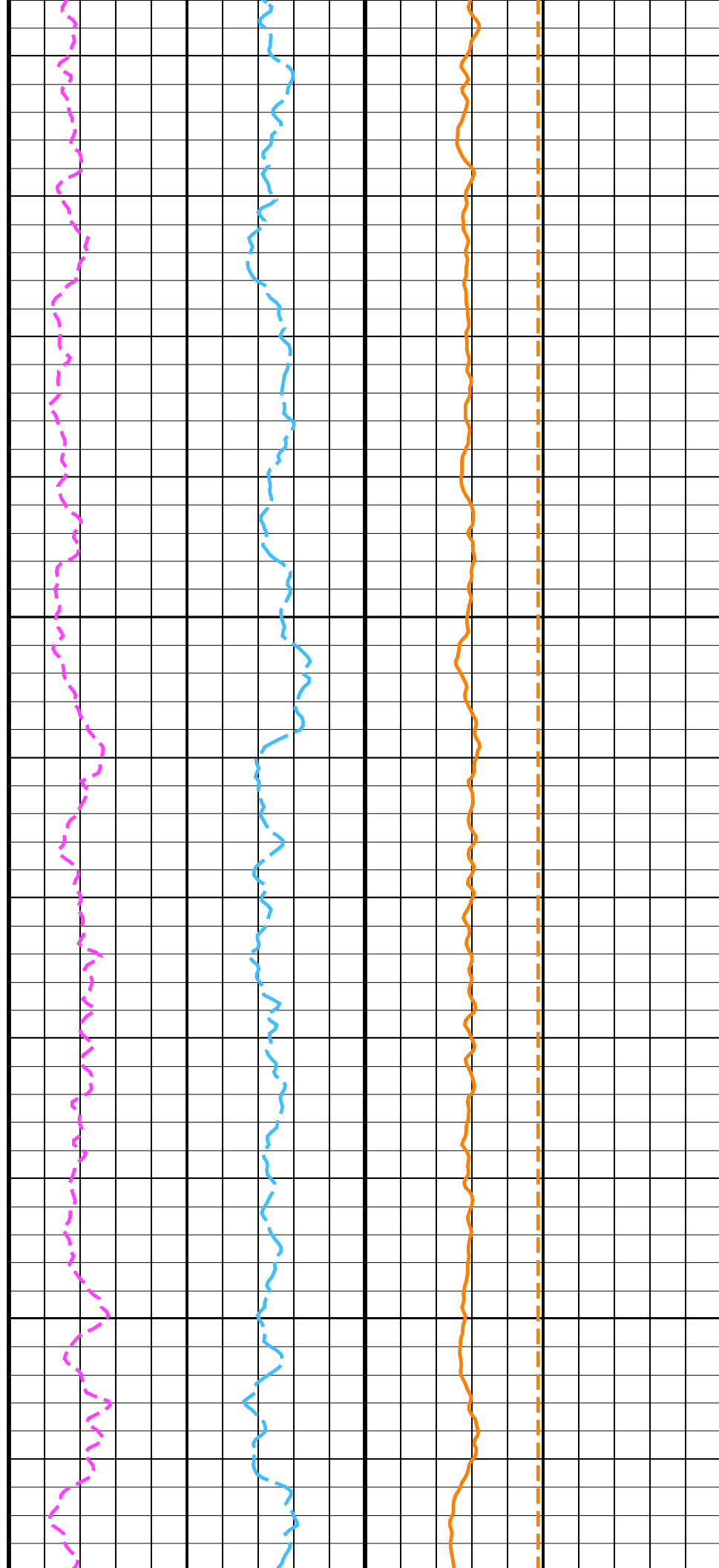


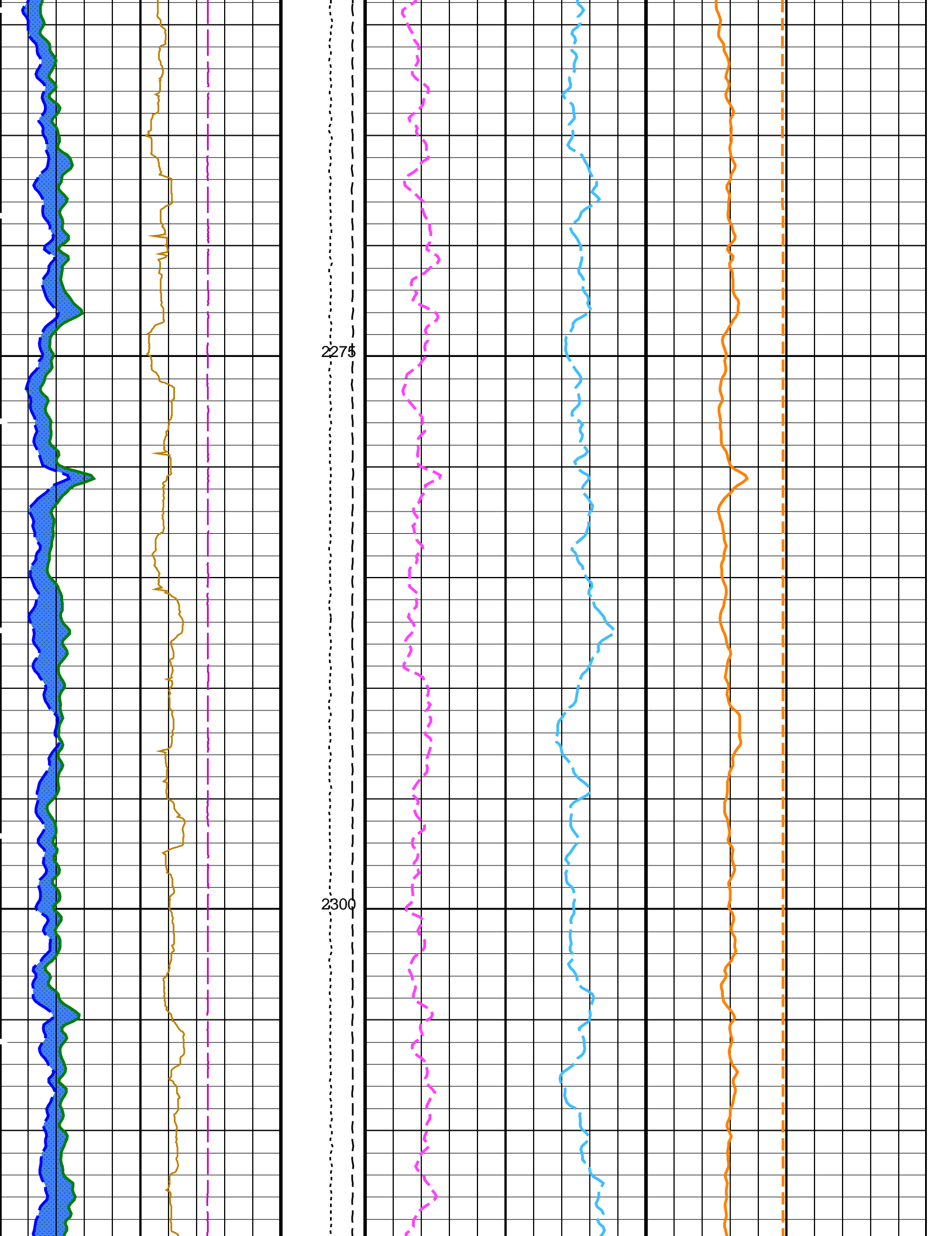


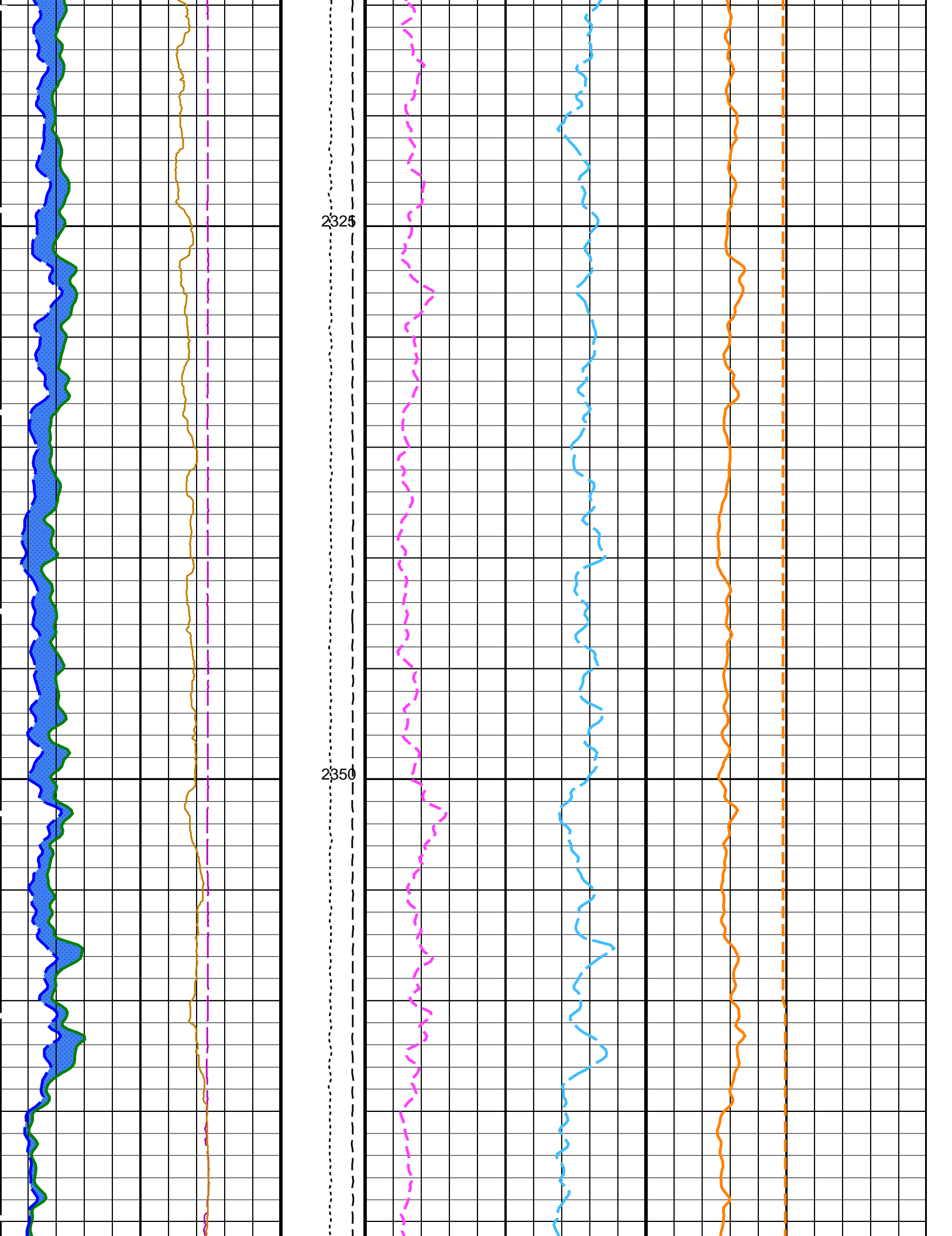


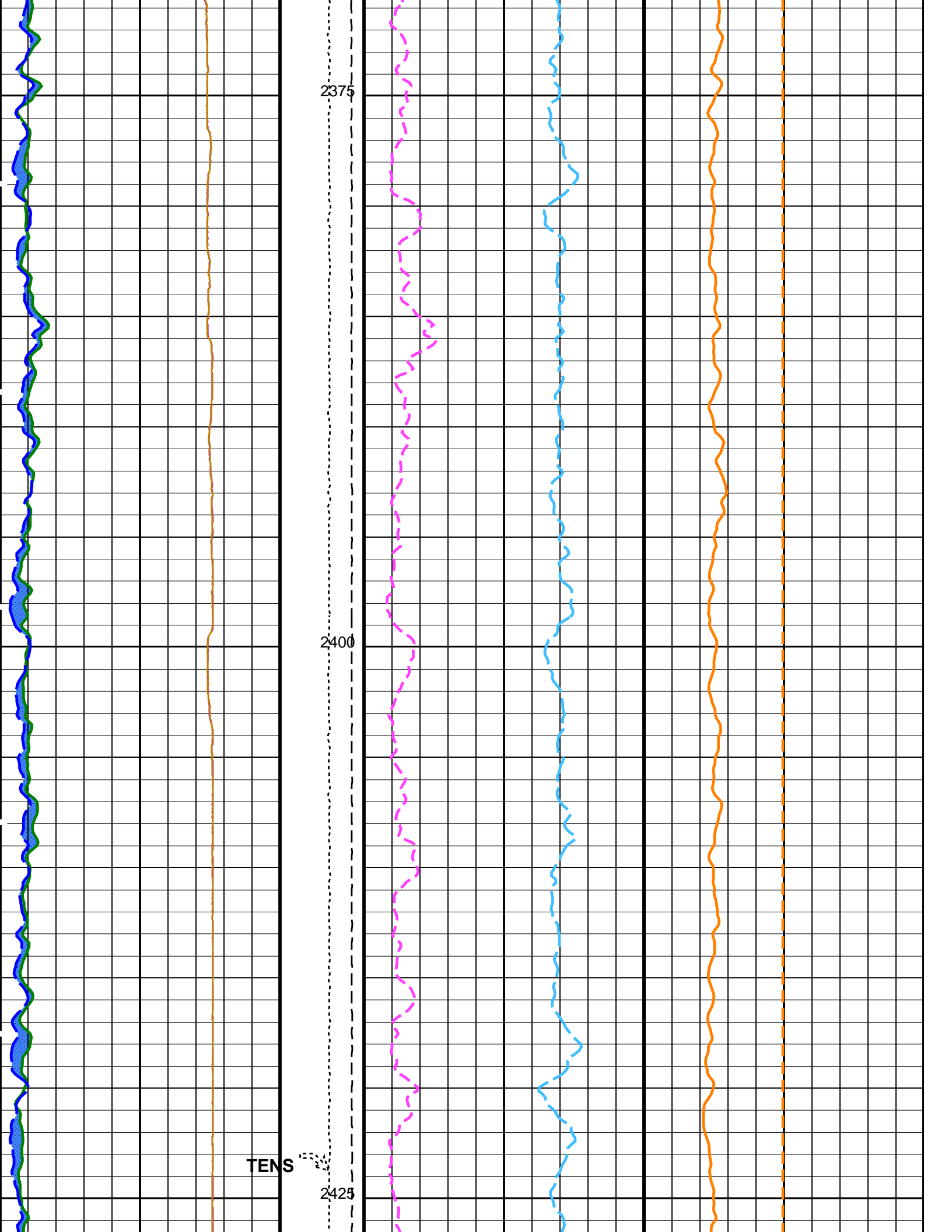
2225

2250

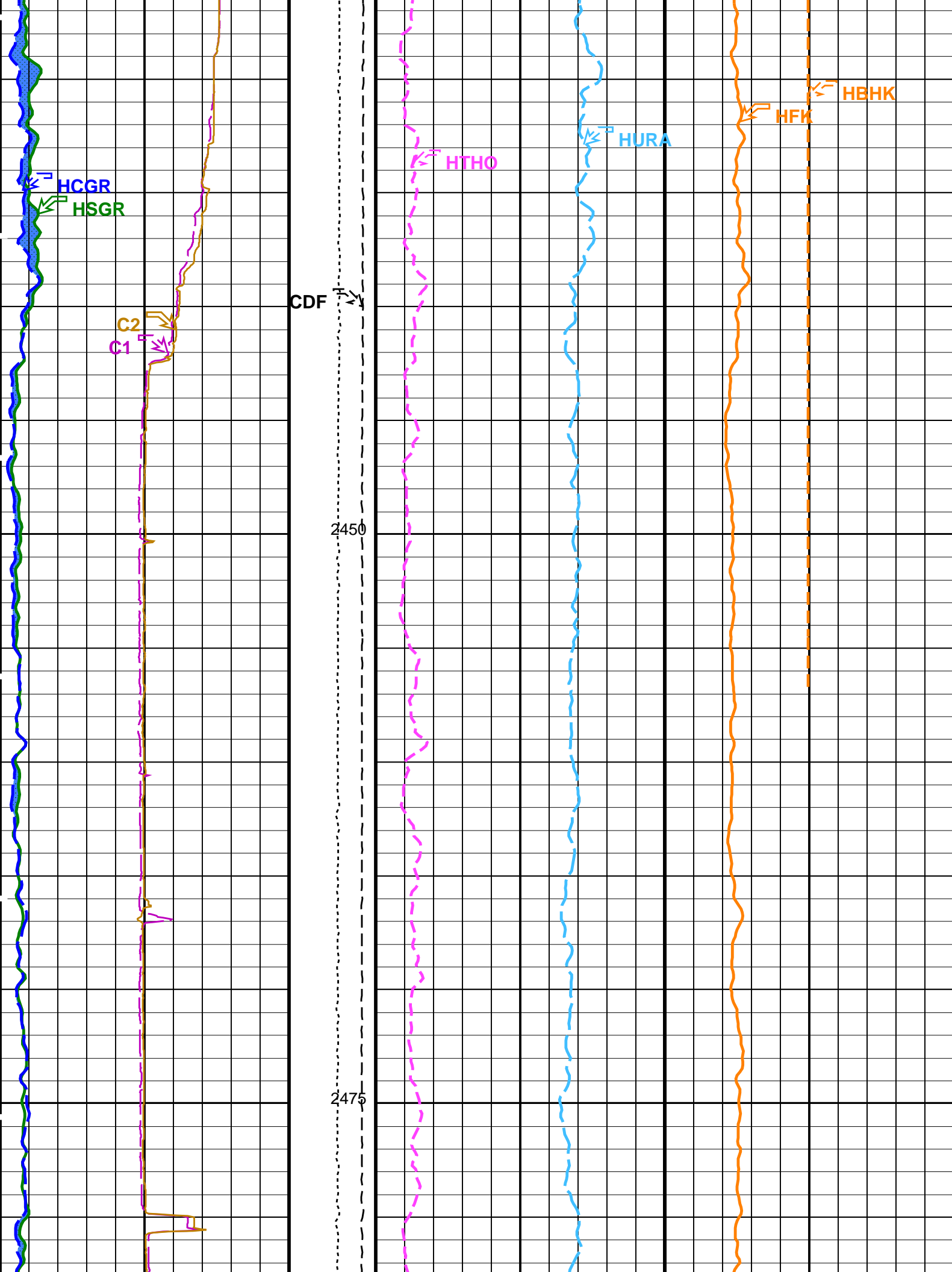


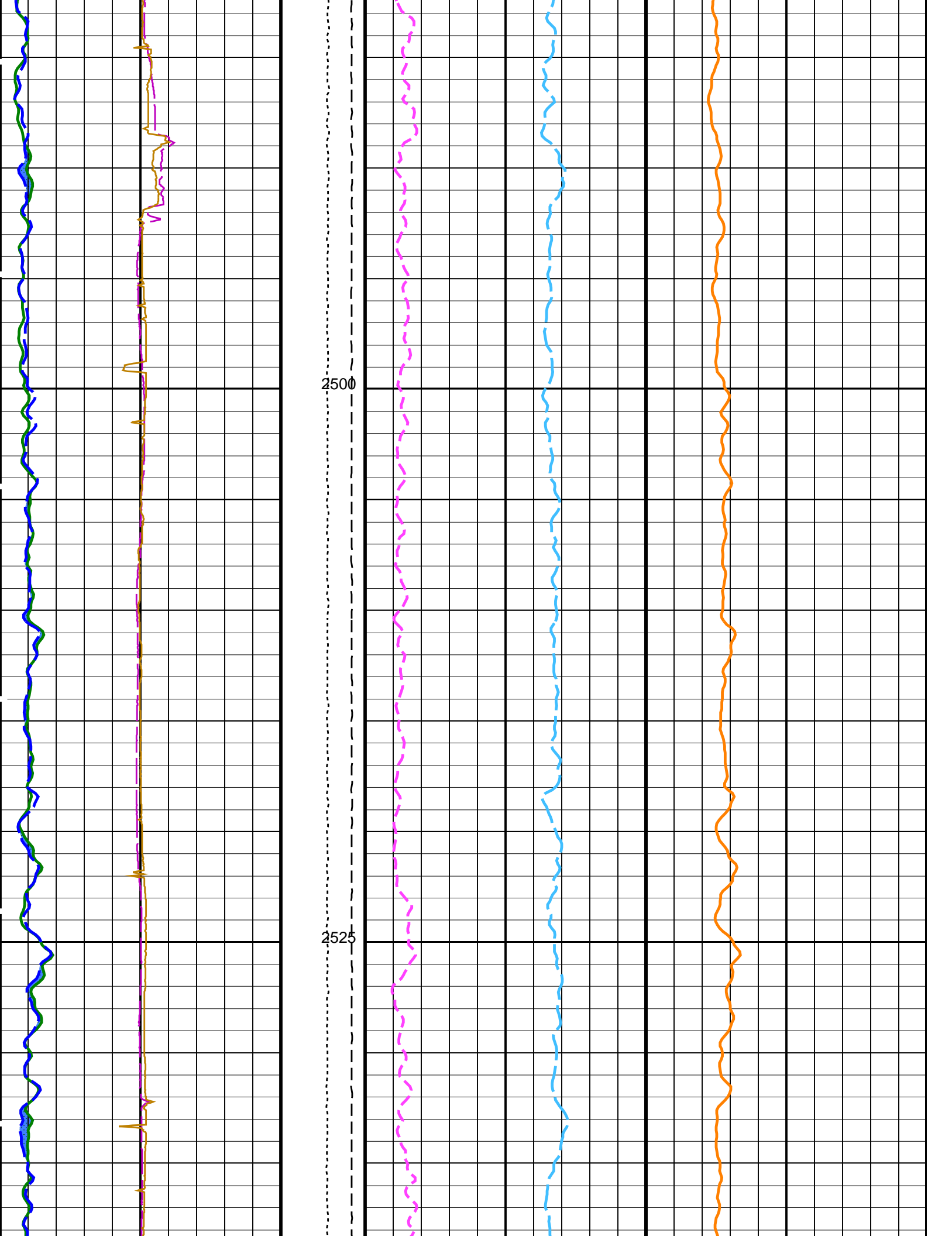


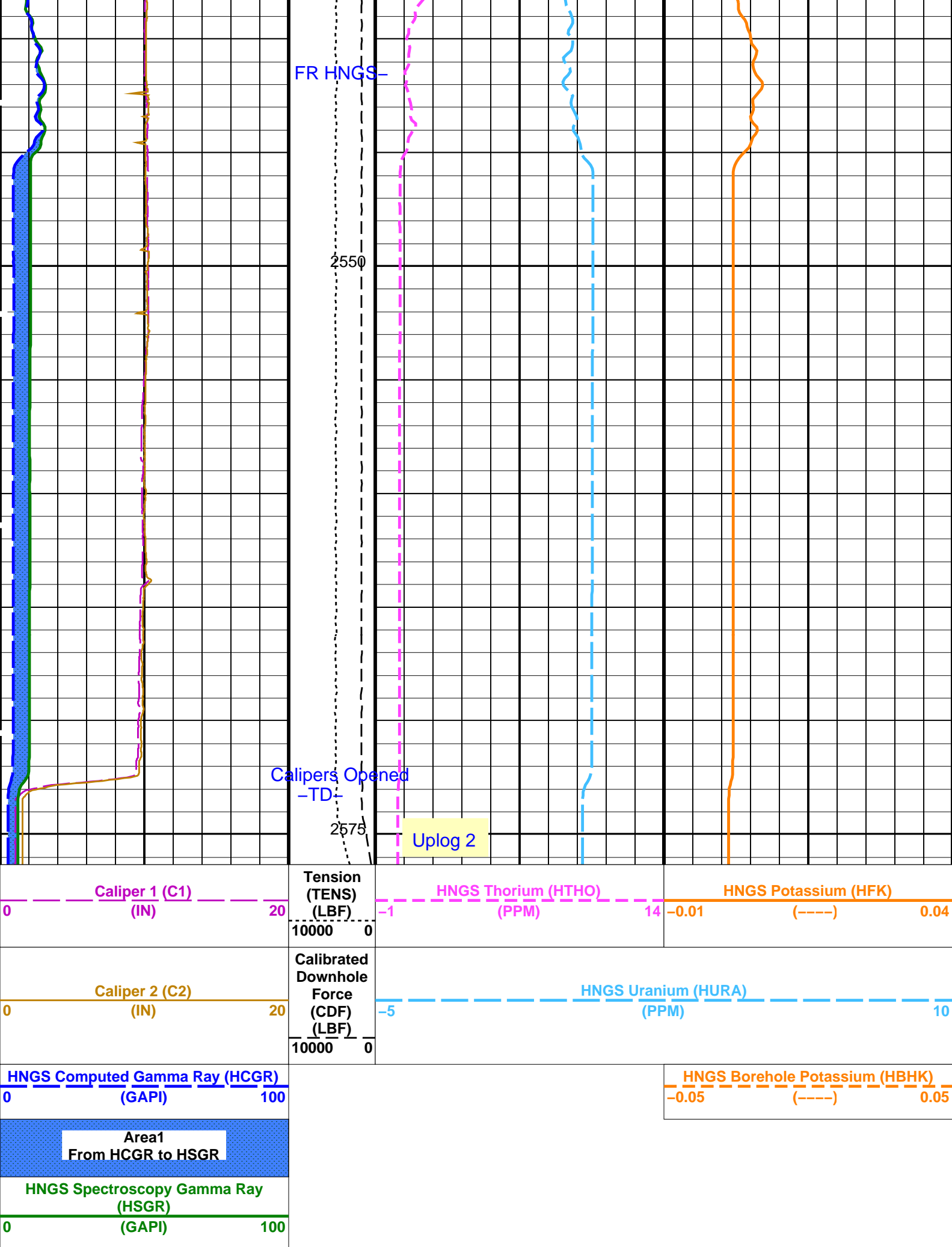












## Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
HNGB-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGB Detector 1 Barite Constant	1	
BAR2	HNGB Detector 2 Barite Constant	1	
BHK	HNGB 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	HNGB Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGB Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGB Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGB Borehole Potassium Running Average	-0.00107005	
HALF	HNGB Alpha Filter Length	60	IN
HCRB	HNGB Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGB Processing Enable	YES	
S1BI	HNGB Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGB Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGB Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGB Detector 1 Variable Barite Factor Running Average	1.0442	
VBA2	HNGB Detector 2 Variable Barite Factor Running Average	1.06133	
System and Miscellaneous			
BS	Bit Size	9.875	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: 20-Jul-2021 05:53

## OP System Version: 19C0-187

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

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_028LUP	FN:47	PRODUCER	20-Jul-2021 04:31	2576.3 M	1986.7 M
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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:57	PRODUCER	20-Jul-2021 05:53		
BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20-Jul-2021 05:53		

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_028LUP	FN:47	PRODUCER	20-Jul-2021 04:31	2576.3 M	1986.7 M
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## Output DLIS Files

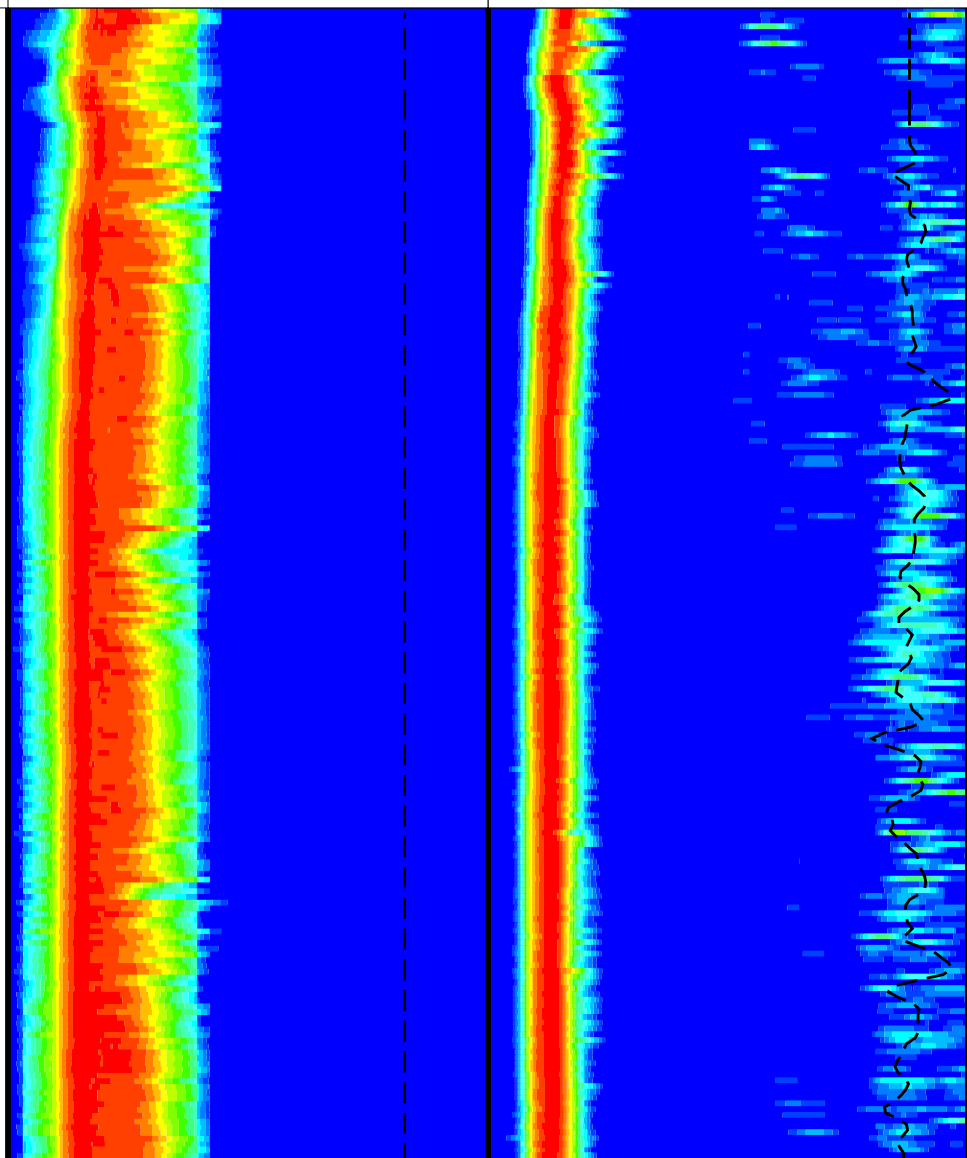
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BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20-Jul-2021 05:53	2576.3 M	1986.7 M

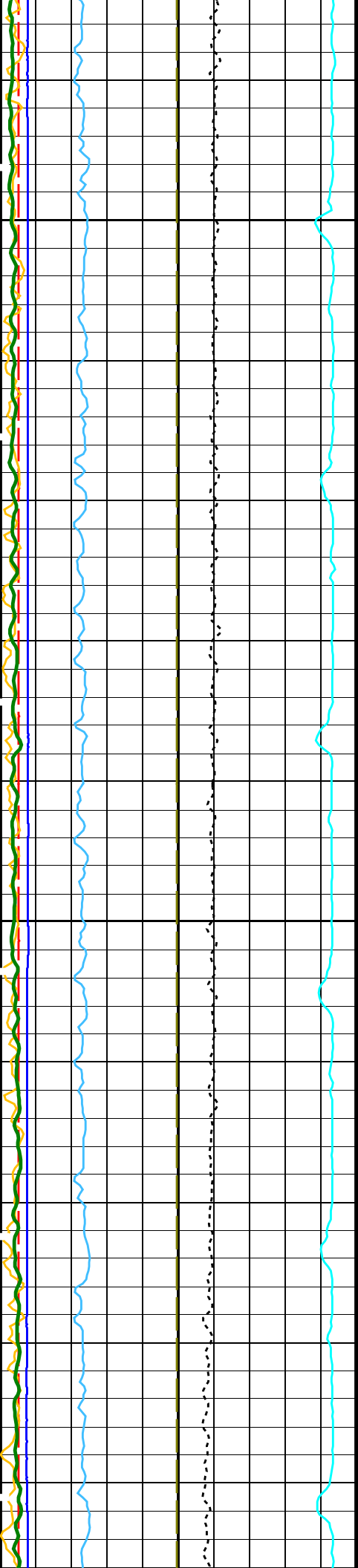
## OP System Version: 19C0-187

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

see remarks

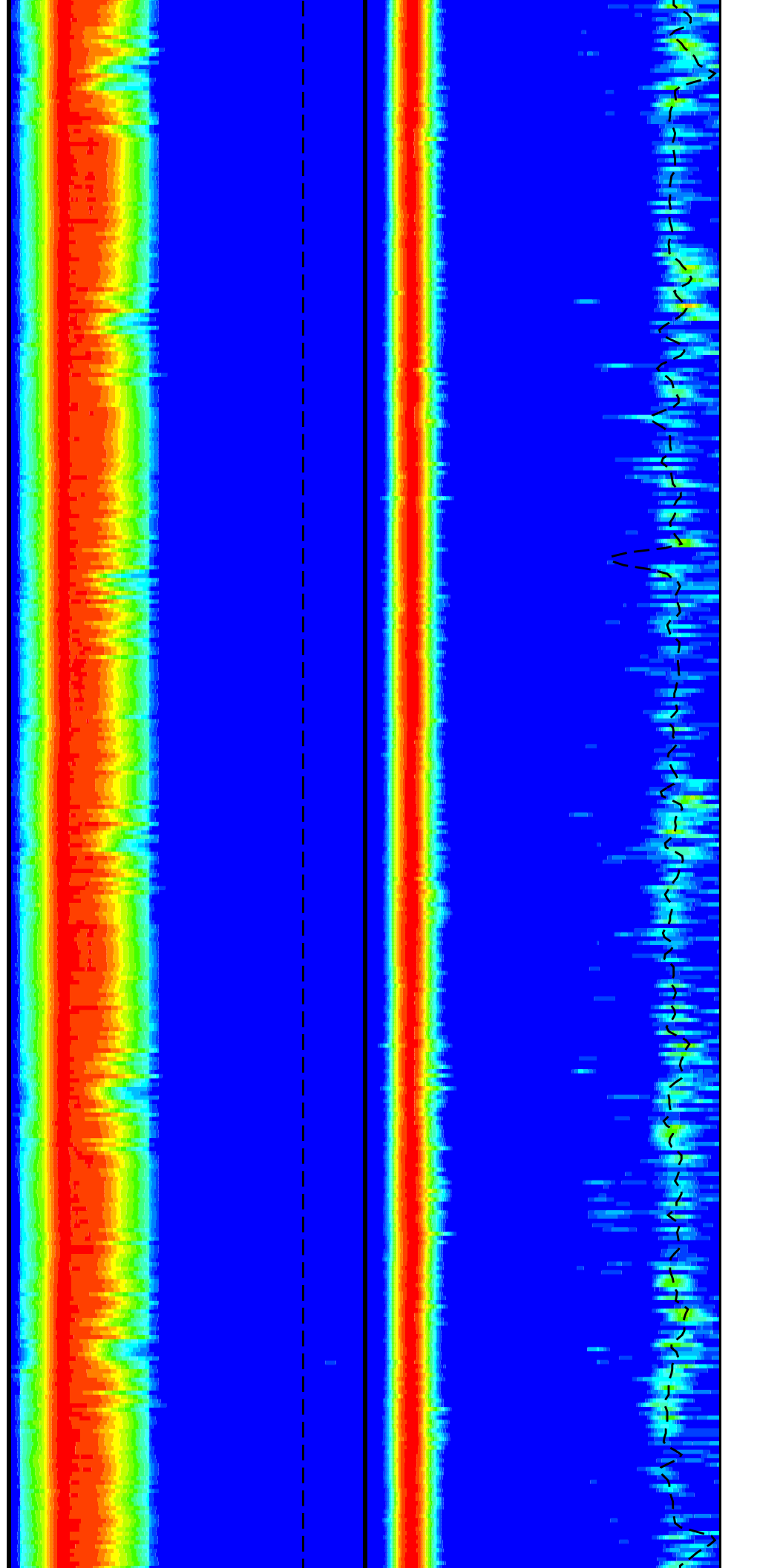
## Uplong 2

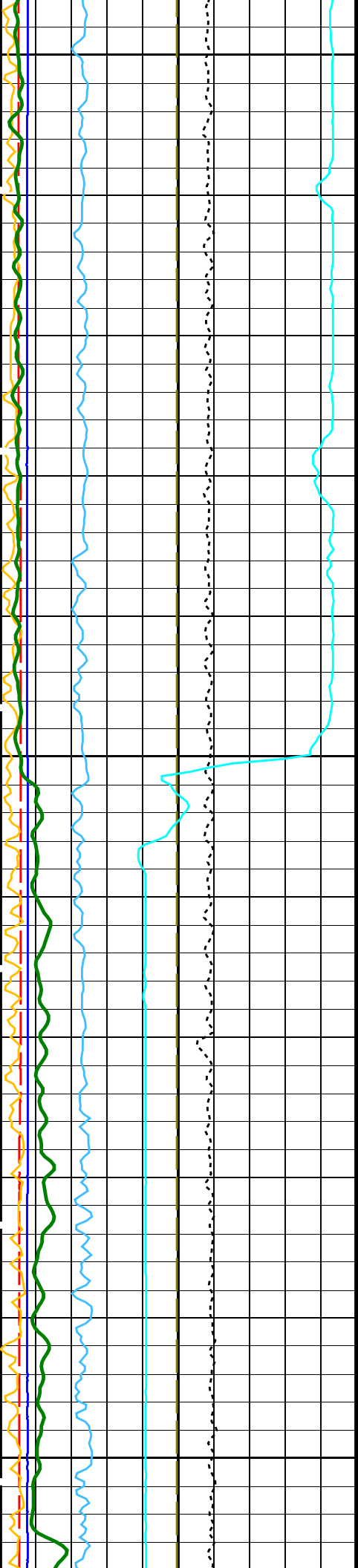




2025

2050



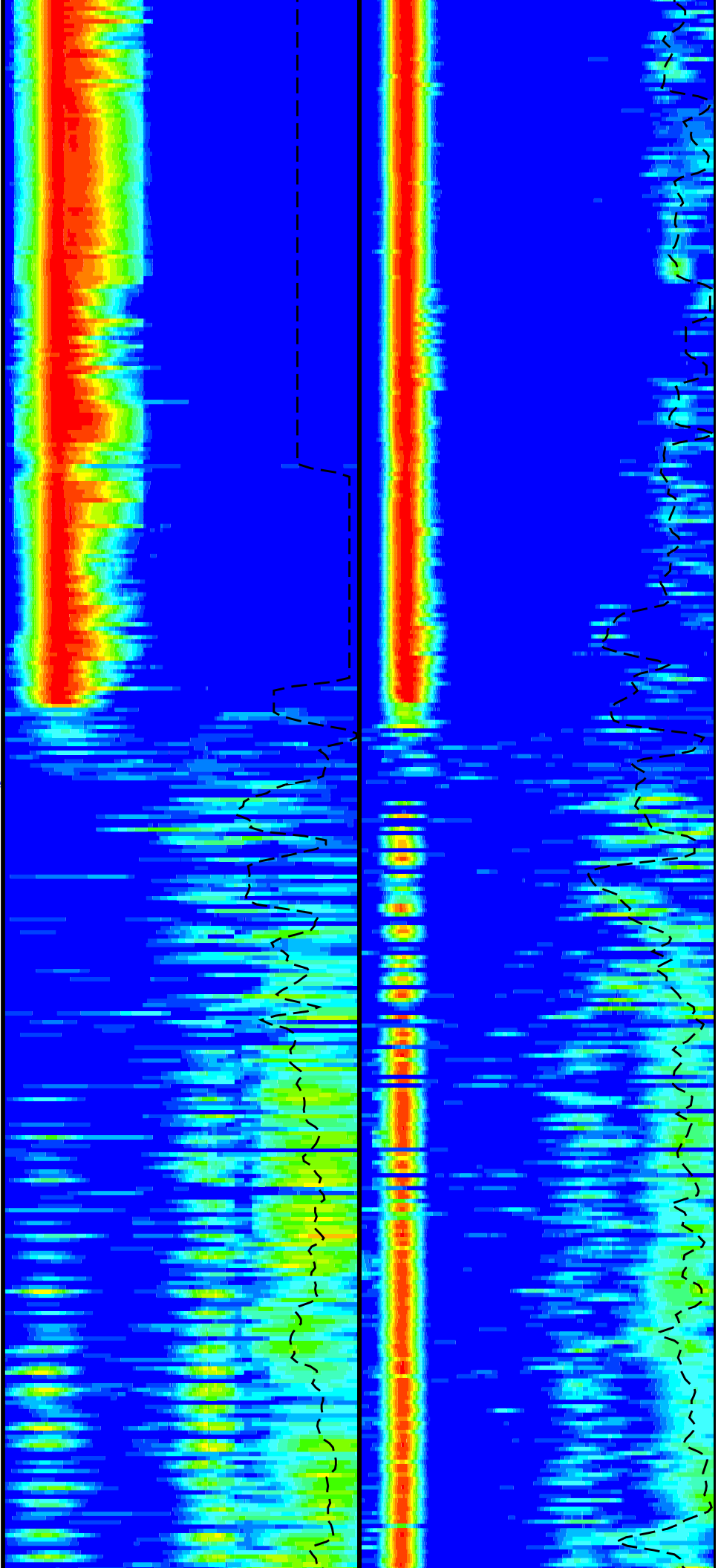


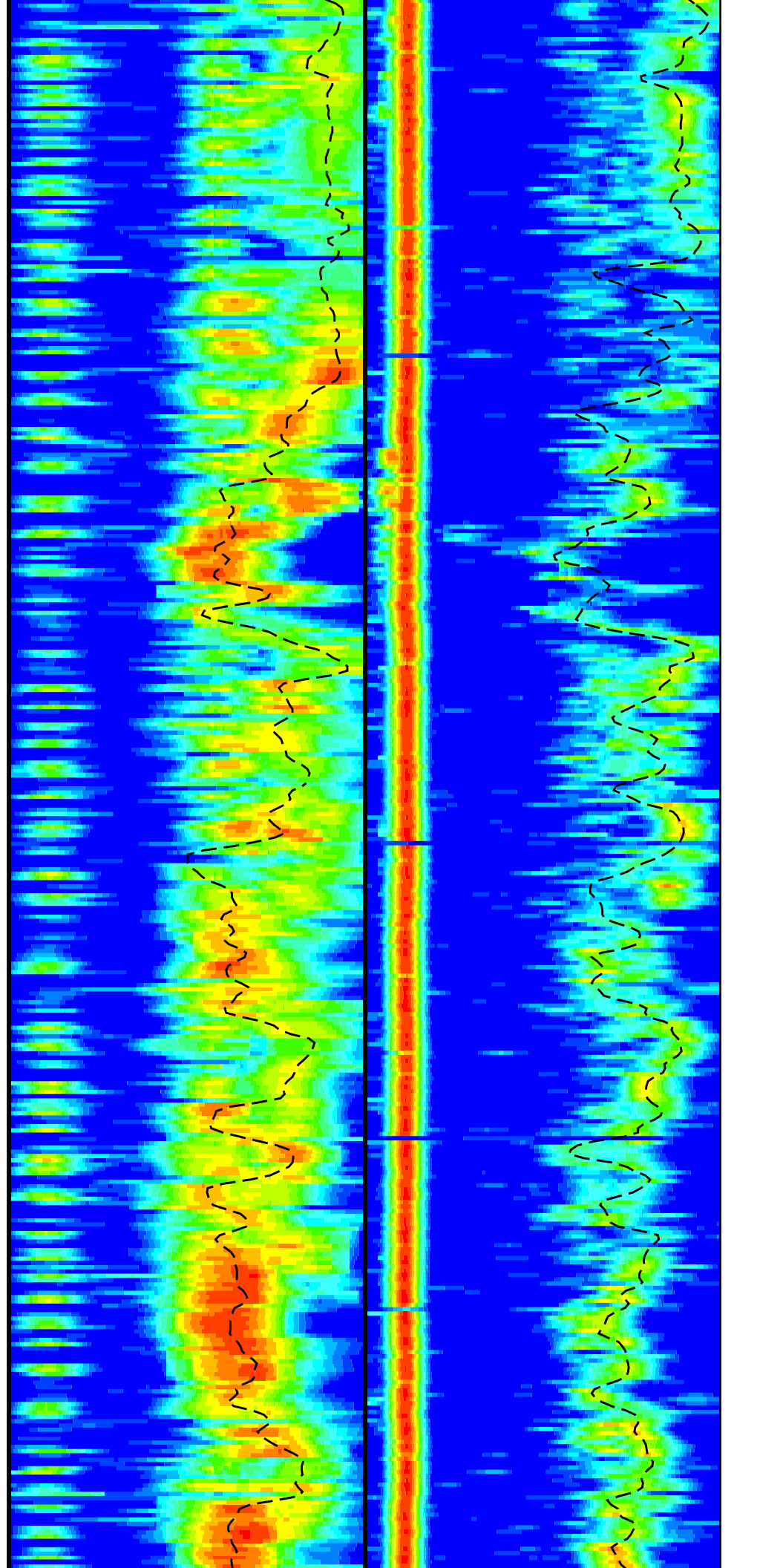
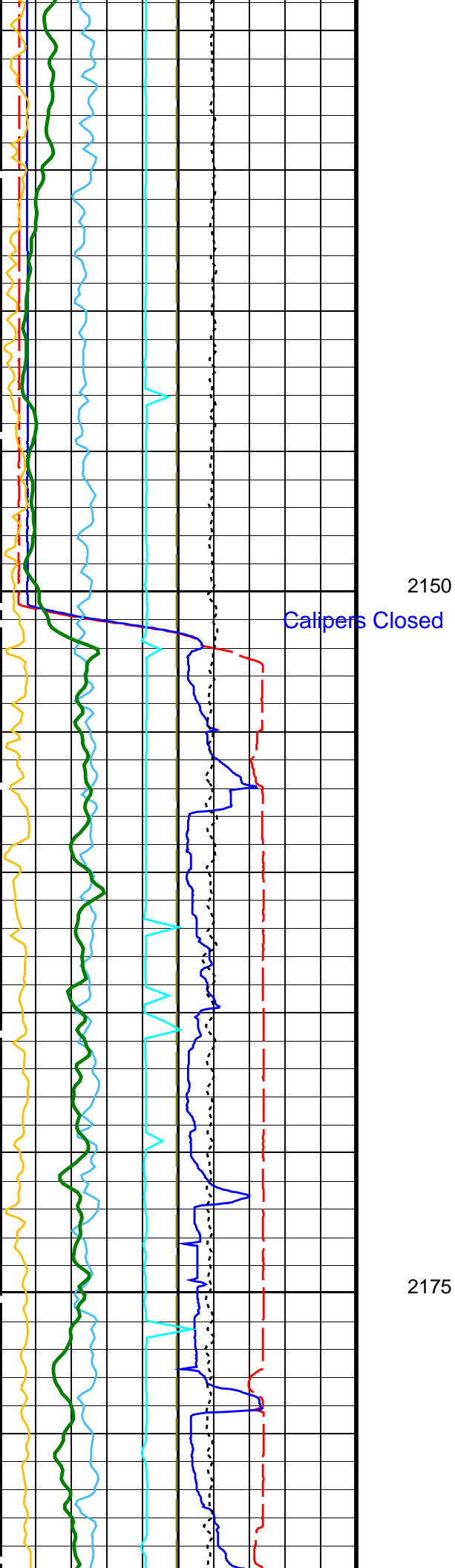
2075

2100

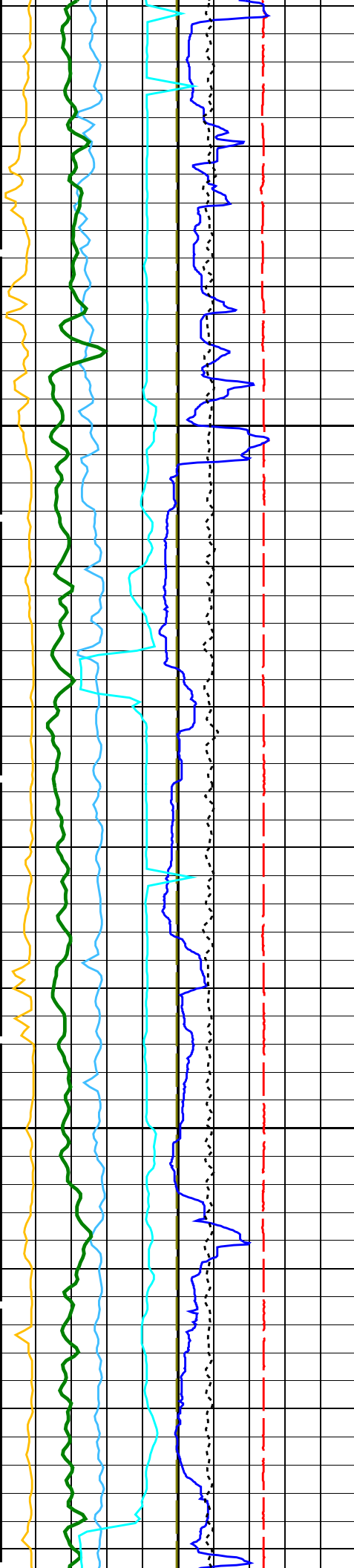
Drill Pipe

2125



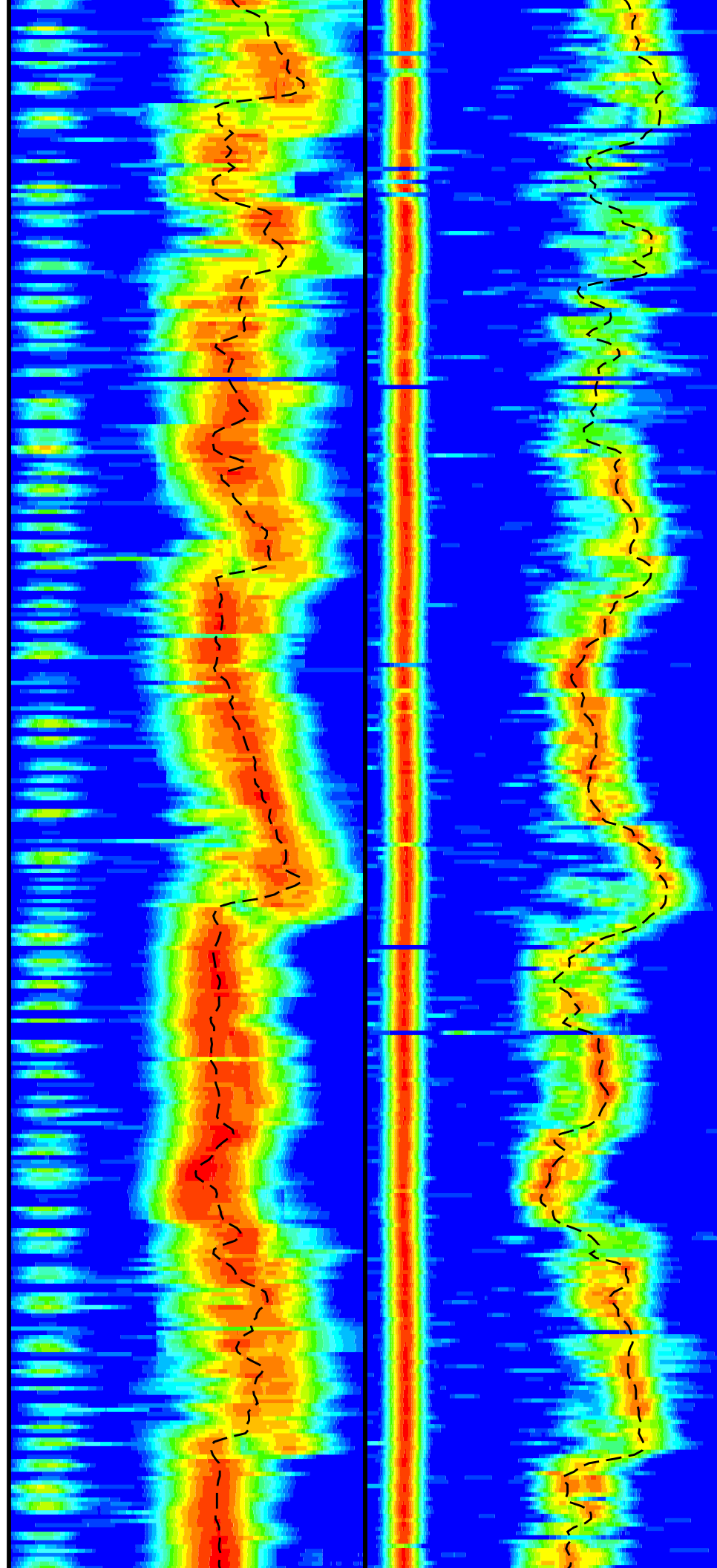


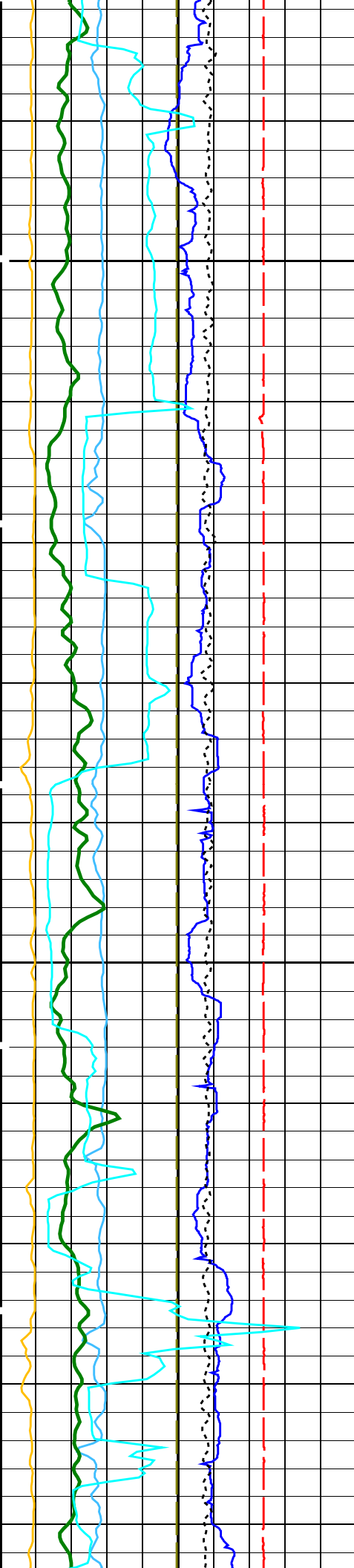




2200

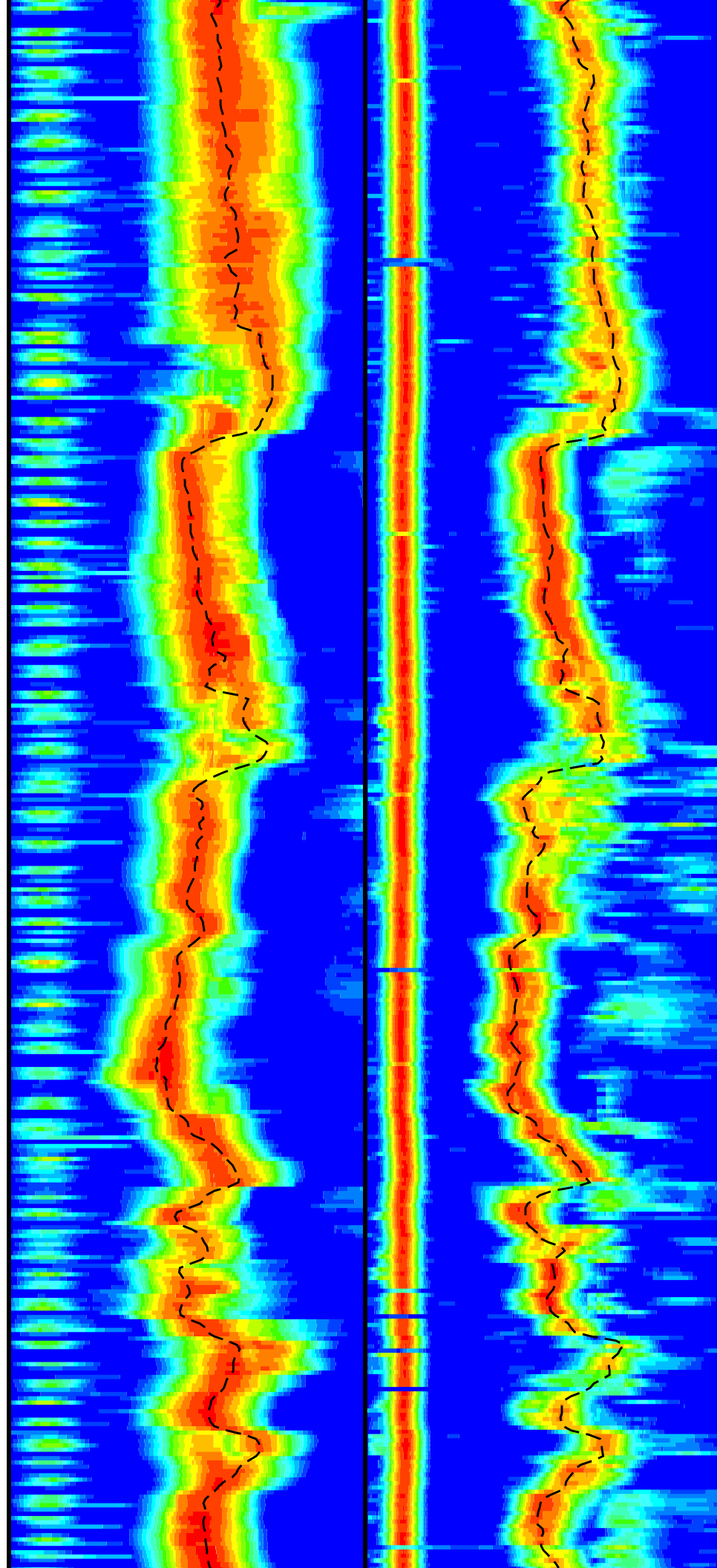
2225

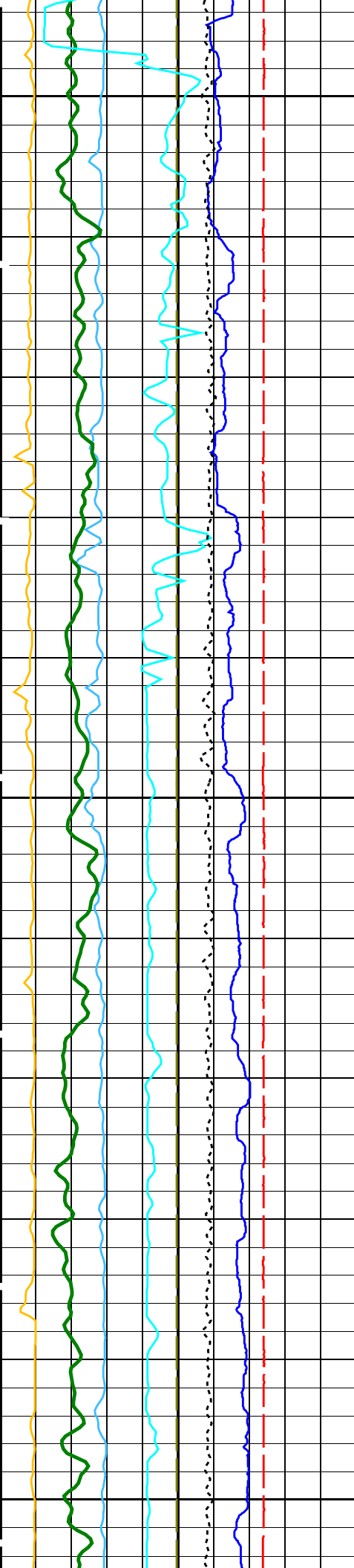




2250

2275

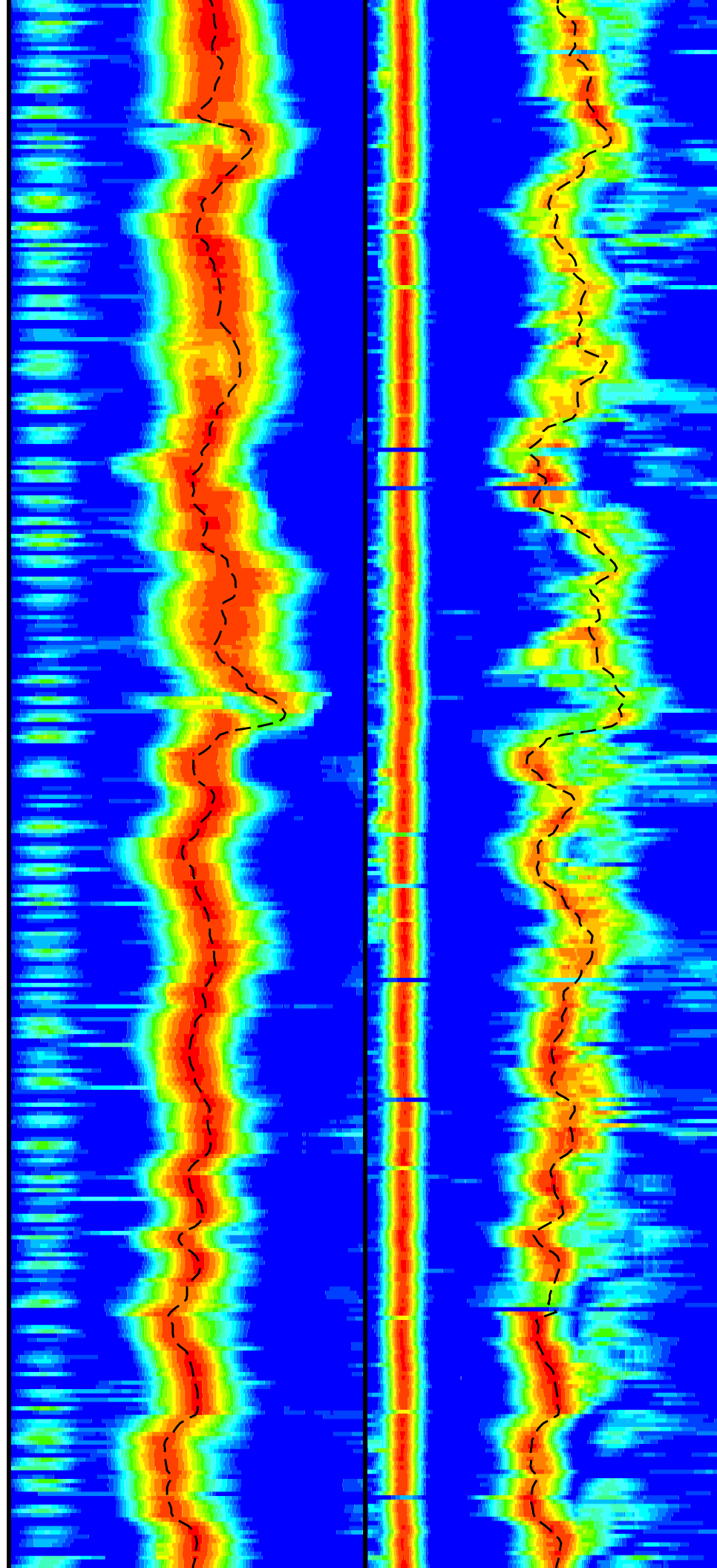


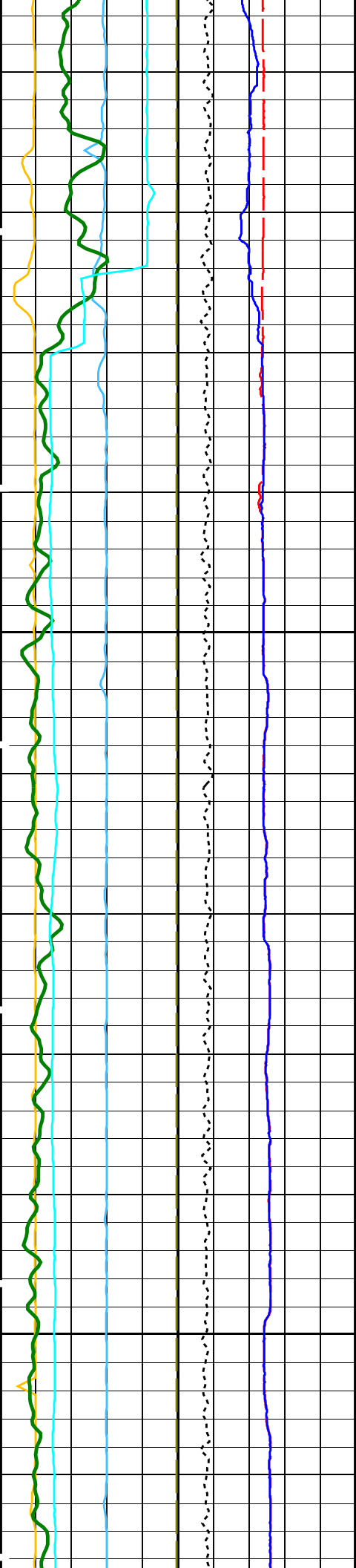


2300

2325

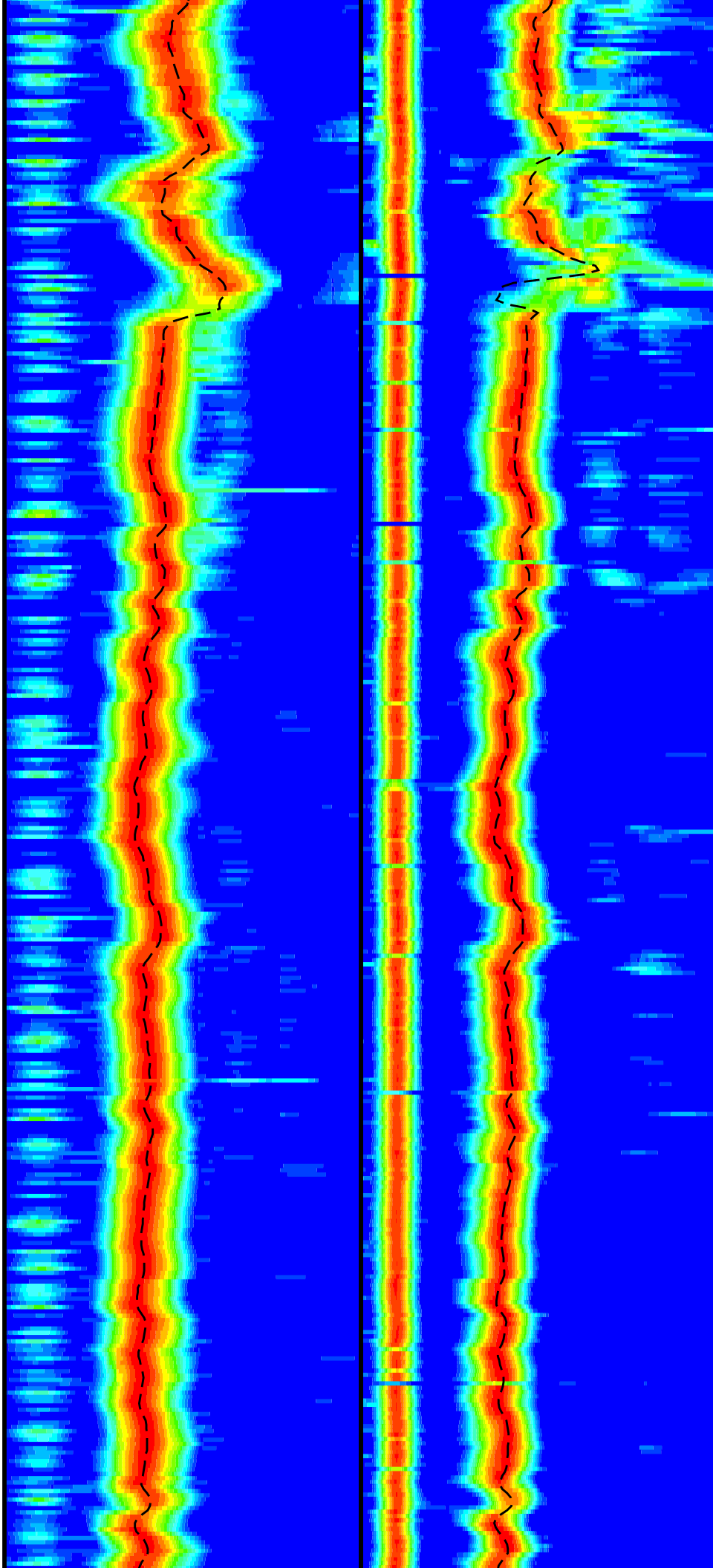
2350

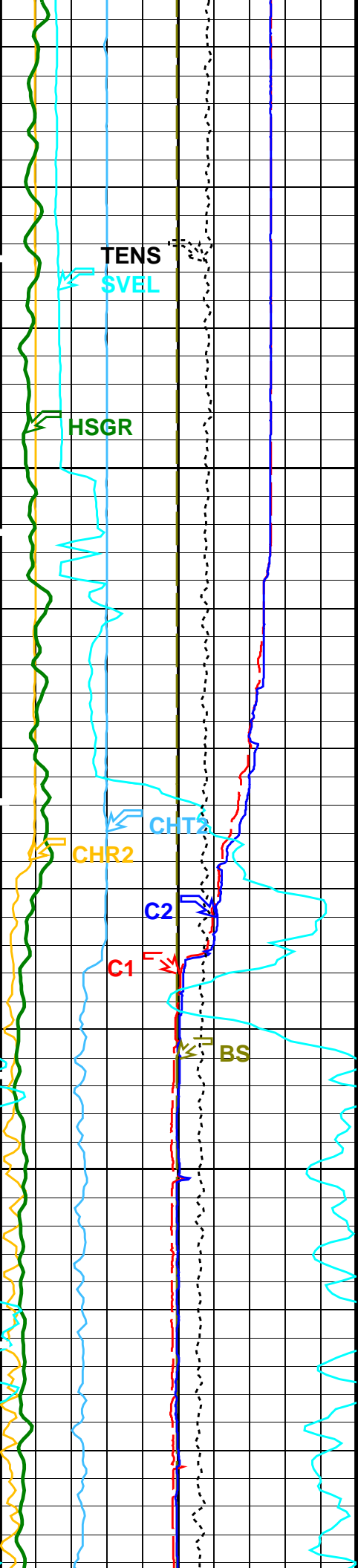




2375

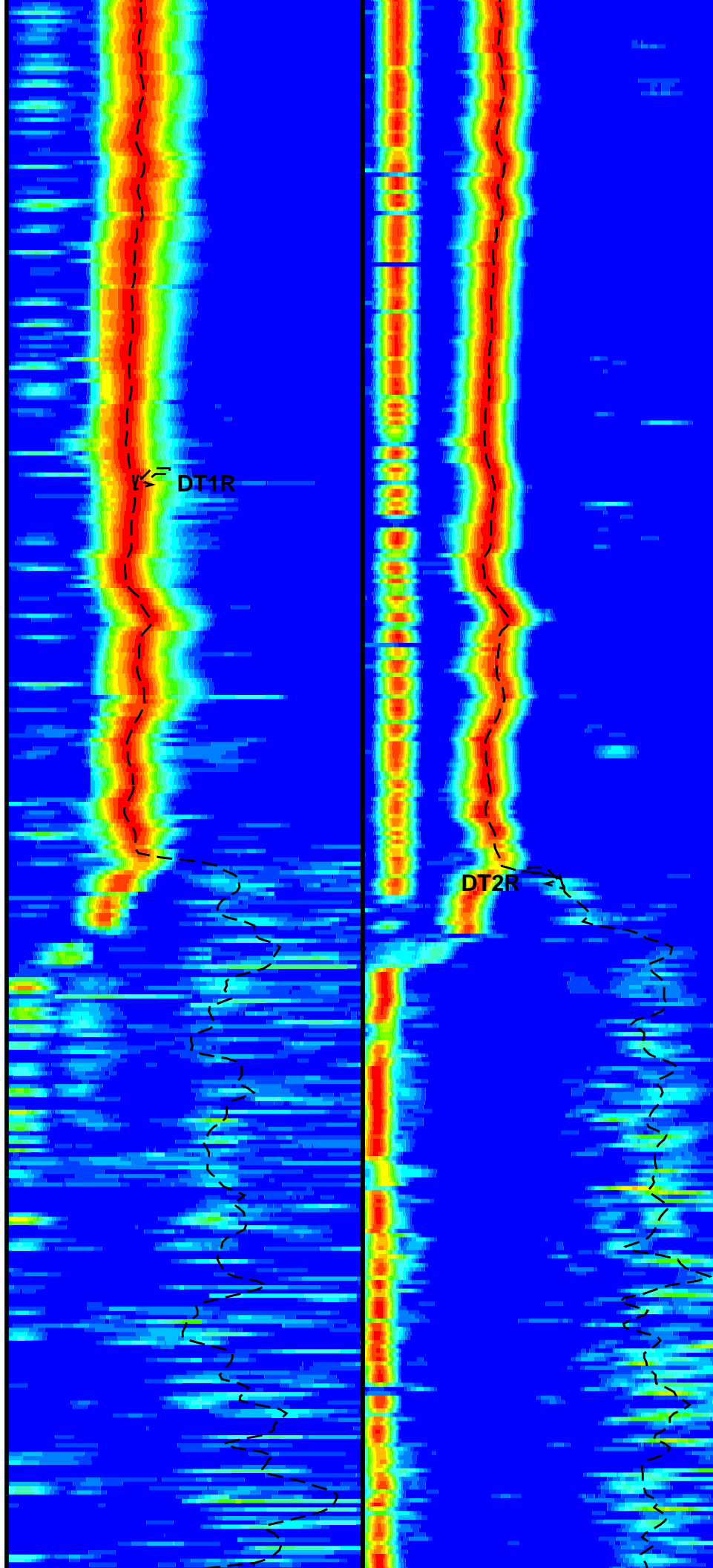
2400

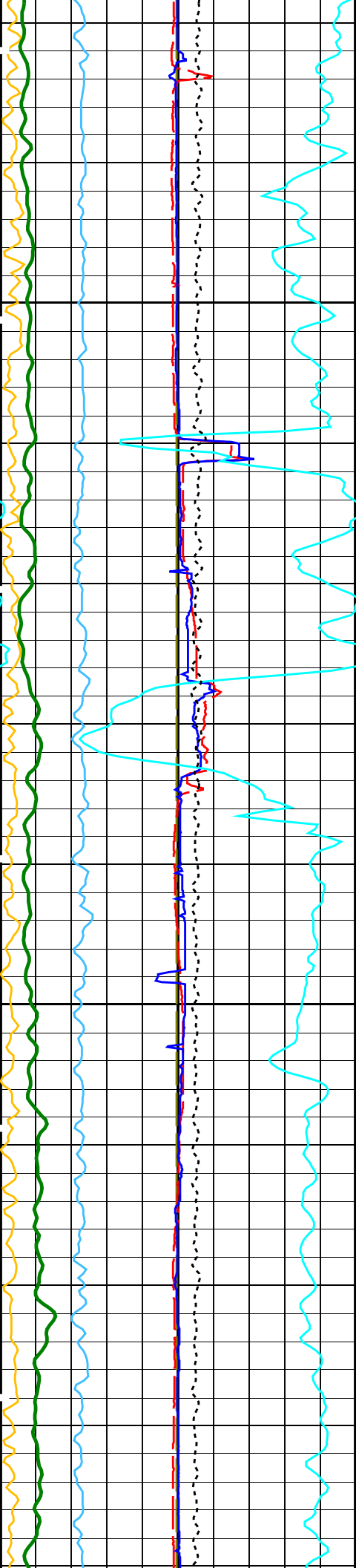




2425

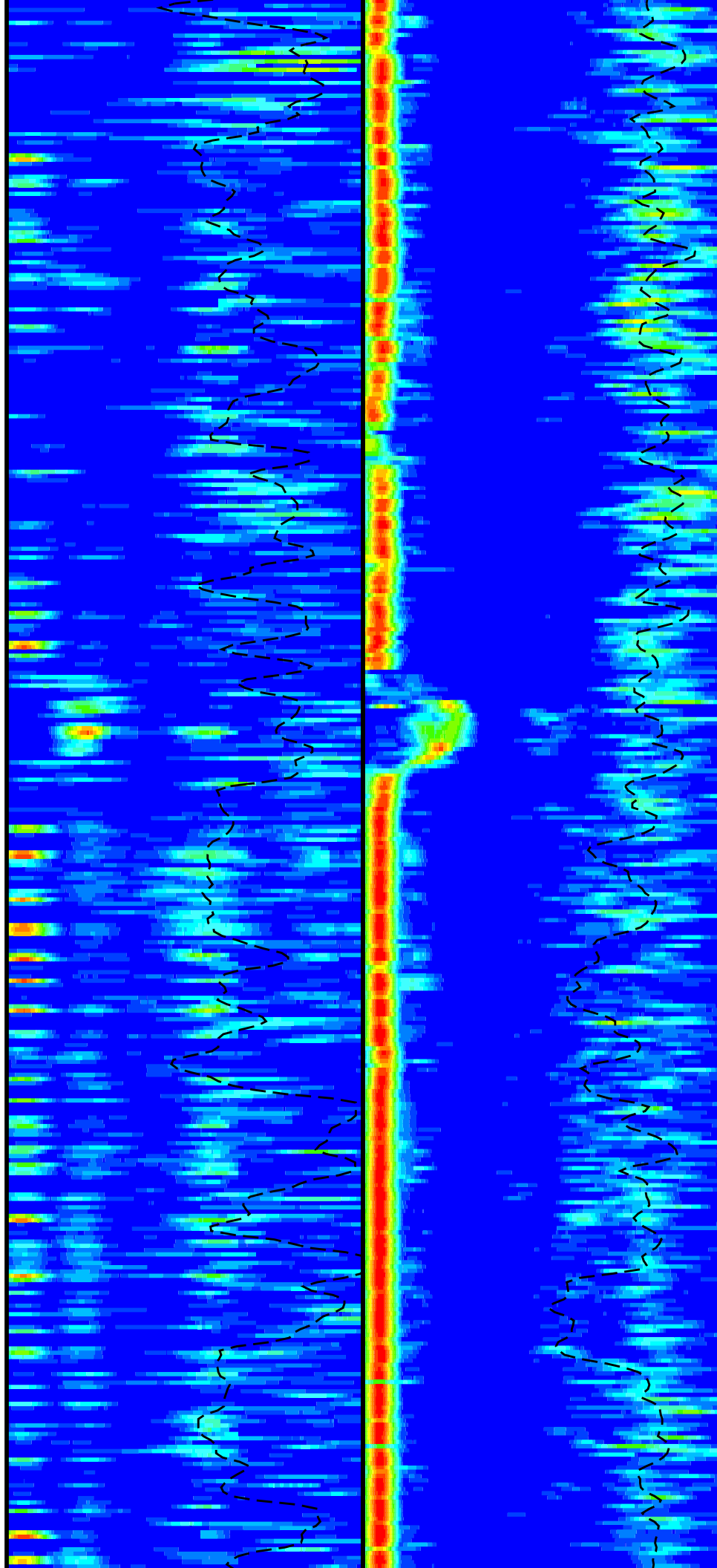
2450



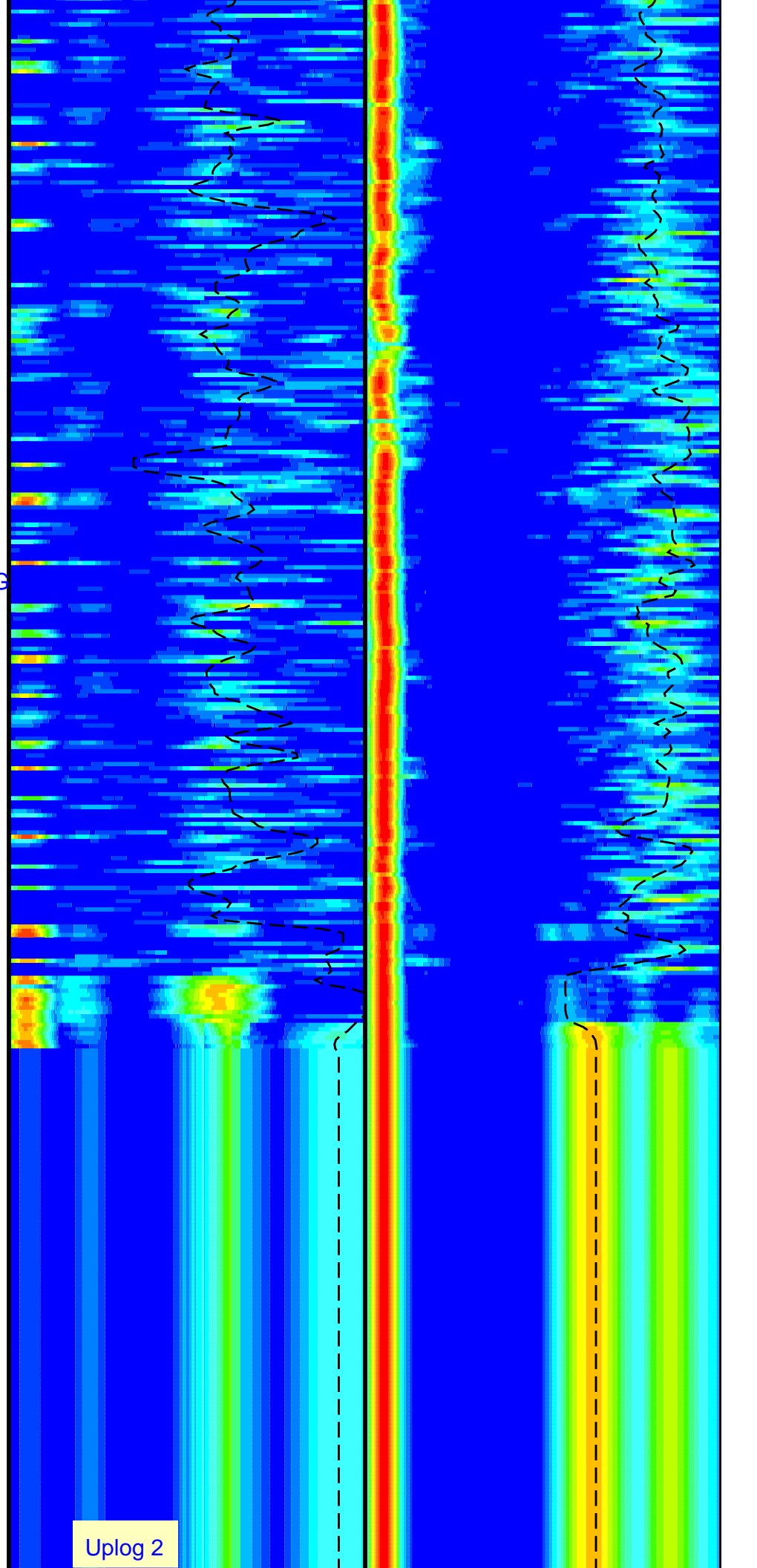
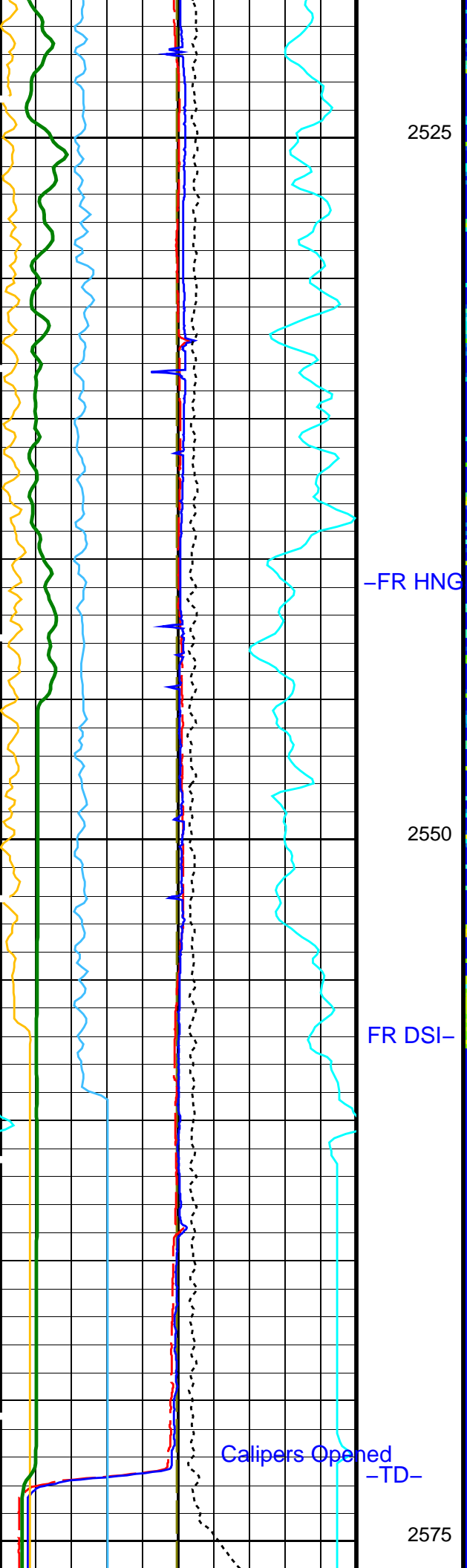


2475

2500







<div>Bit Size (BS)</div> <div>(IN)</div> <div>020</div>			<div>Delta-T Shear / RA – Lower Dipole</div> <div>(DT1R)</div> <div>(US/F)401400</div>			<div>Delta-T Shear / RA – Upper Dipole</div> <div>(DT2R)</div> <div>(US/F)401400</div>		
<div>Caliper 1 (C1)</div> <div>(IN)</div> <div>020</div>			<div>MinAmplitudeMax</div> <div>Rec.Array L.Dipole Slow Proj. CVDL</div> <div>(SPR1)</div> <div>(US/F)401400</div>			<div>MinAmplitudeMax</div> <div>Rec.Array U.Dipole Slow Proj. CVDL</div> <div>(SPR2)</div> <div>(US/F)401400</div>		
<div>Caliper 2 (C2)</div> <div>(IN)</div> <div>020</div>								
<div>Sonic Velocity (SVEL)</div> <div>(M/S)</div> <div>10006000</div>								
<div>Tension (TENS)</div> <div>(LBF)</div> <div>100000</div>								
<div>Peak Coherence / RA – Upper Dipole</div> <div>(CHR2)</div> <div>010</div>								
<div>Peak Coherence / TA – Upper Dipole</div> <div>(CHT2)</div> <div>-28</div>								
<div>HNGS Spectroscopy Gamma Ray</div> <div>(HSGR)</div> <div>0100</div>								

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	400	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 DTCTO 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
HNGB–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGB Detector 1 Barite Constant	1	
BAR2	HNGB Detector 2 Barite Constant	1	
BHK	HNGB 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	HNGB Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGB Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGB Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGB Borehole Potassium Running Average	–0.00107005	
HALF	HNGB Alpha Filter Length	60	IN
HCRB	HNGB Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGB Processing Enable	YES	
S1BI	HNGB Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGB Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGB Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGB Detector 1 Variable Barite Factor Running Average	1.0442	
VBA2	HNGB Detector 2 Variable Barite Factor Running Average	1.06133	
System and Miscellaneous			
BS	Bit Size	9.875	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: 20–Jul–2021 05:53

## OP System Version: 19C0–187

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

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_028LUP	FN:47	PRODUCER	20–Jul–2021 04:31	2576.3 M	1986.7 M
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## Output DLIS Files

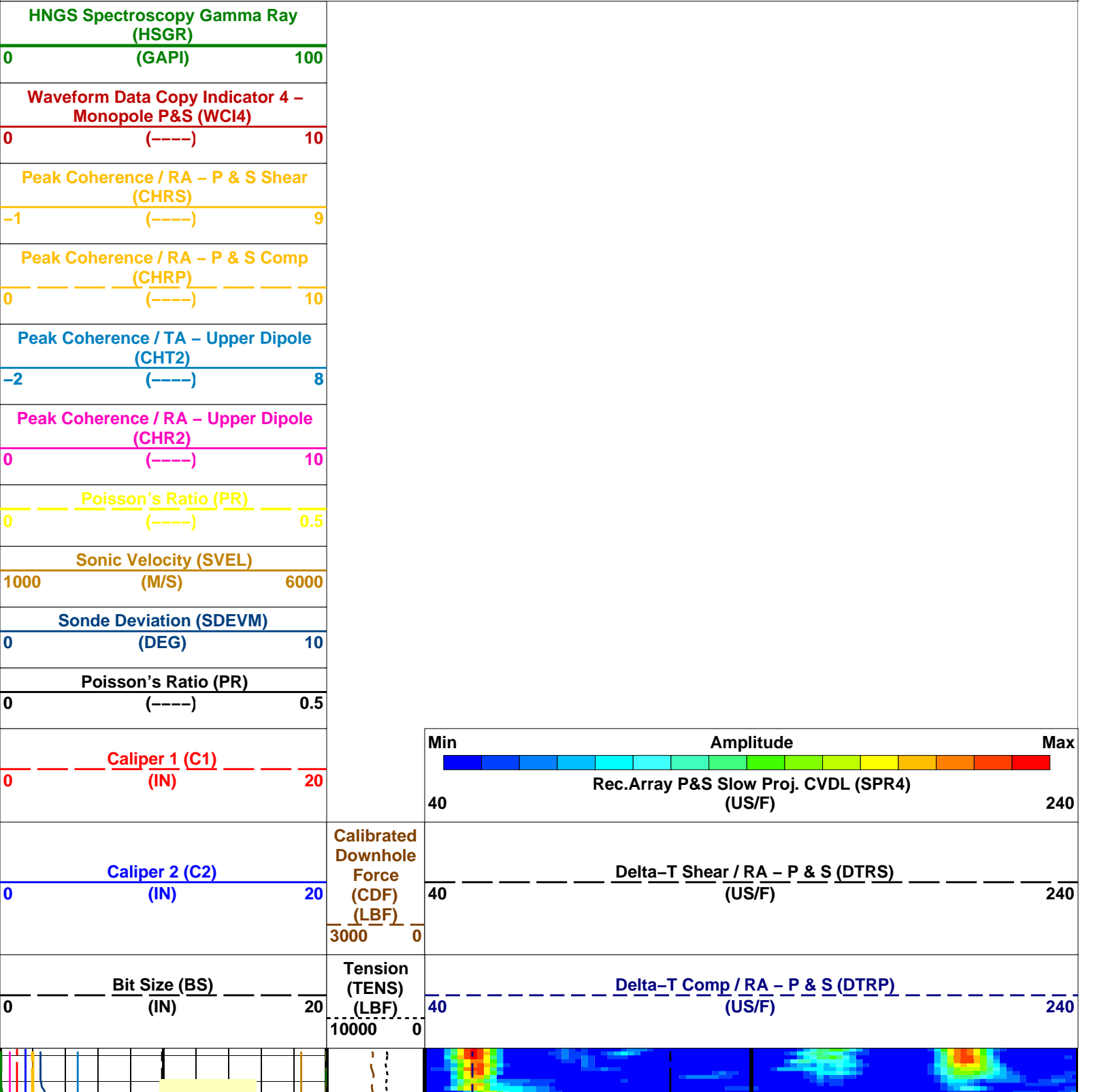
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BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20–Jul–2021 05:53

Company: International Ocean Discovery Program      Well: Expedition 395C, Site U1562B

## Input DLIS Files

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Output DLIS Files						
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BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20-Jul-2021 05:53	2576.3 M	1986.7 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						



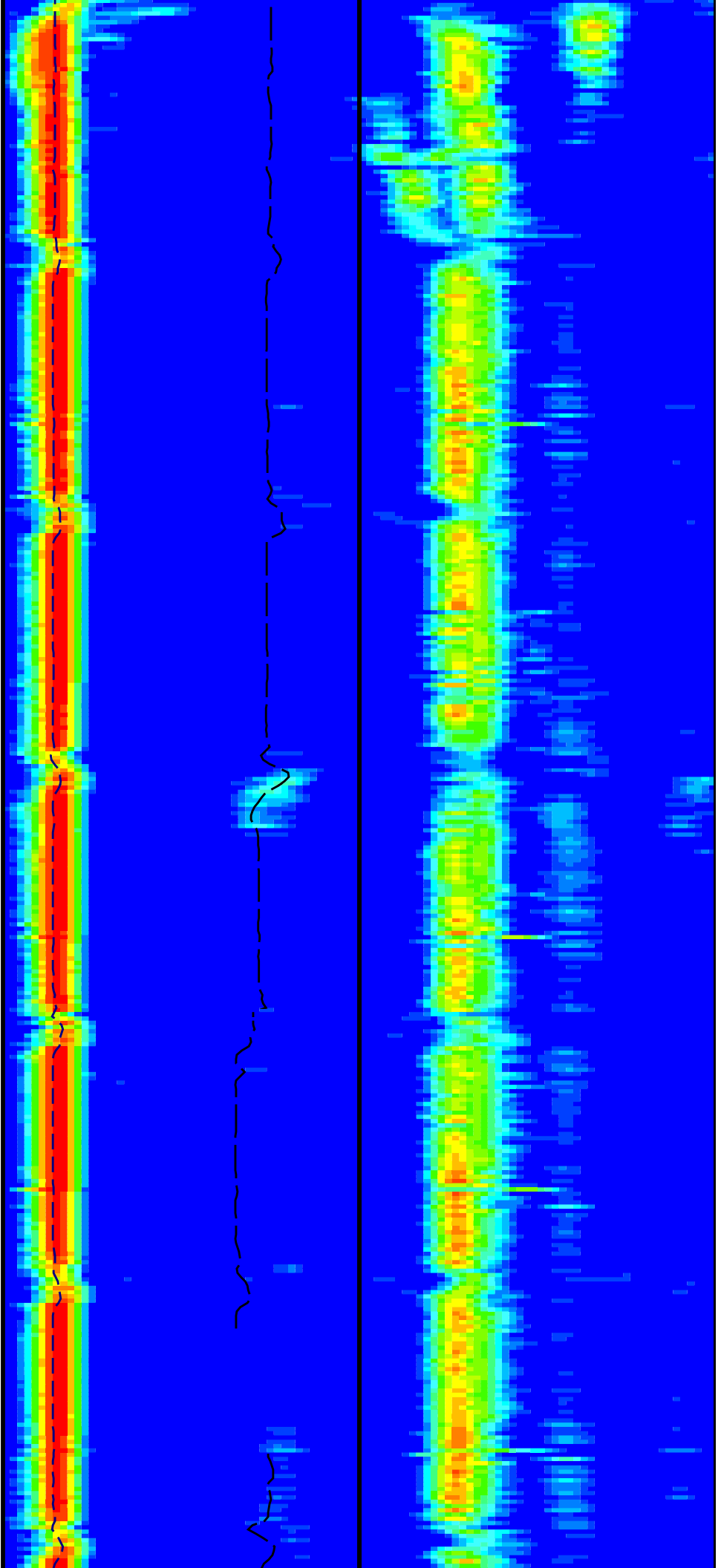
Uplog 2

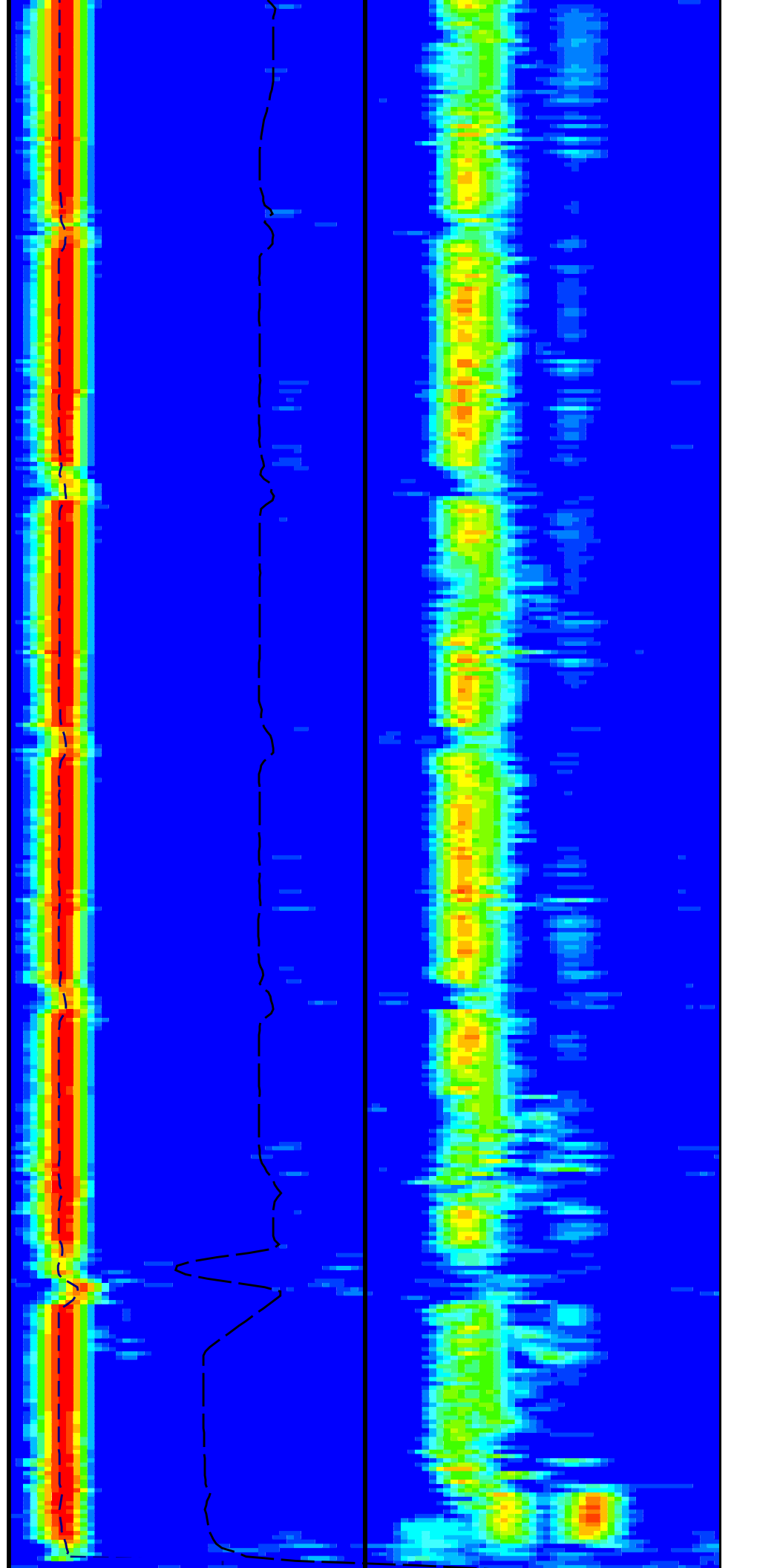
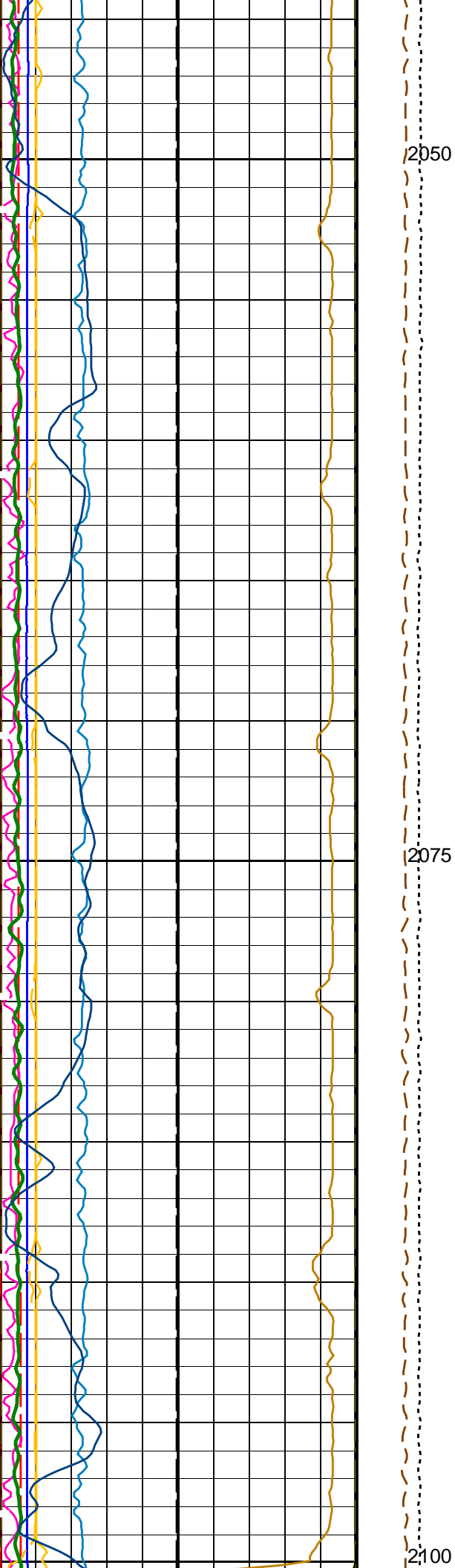
-see remarks-

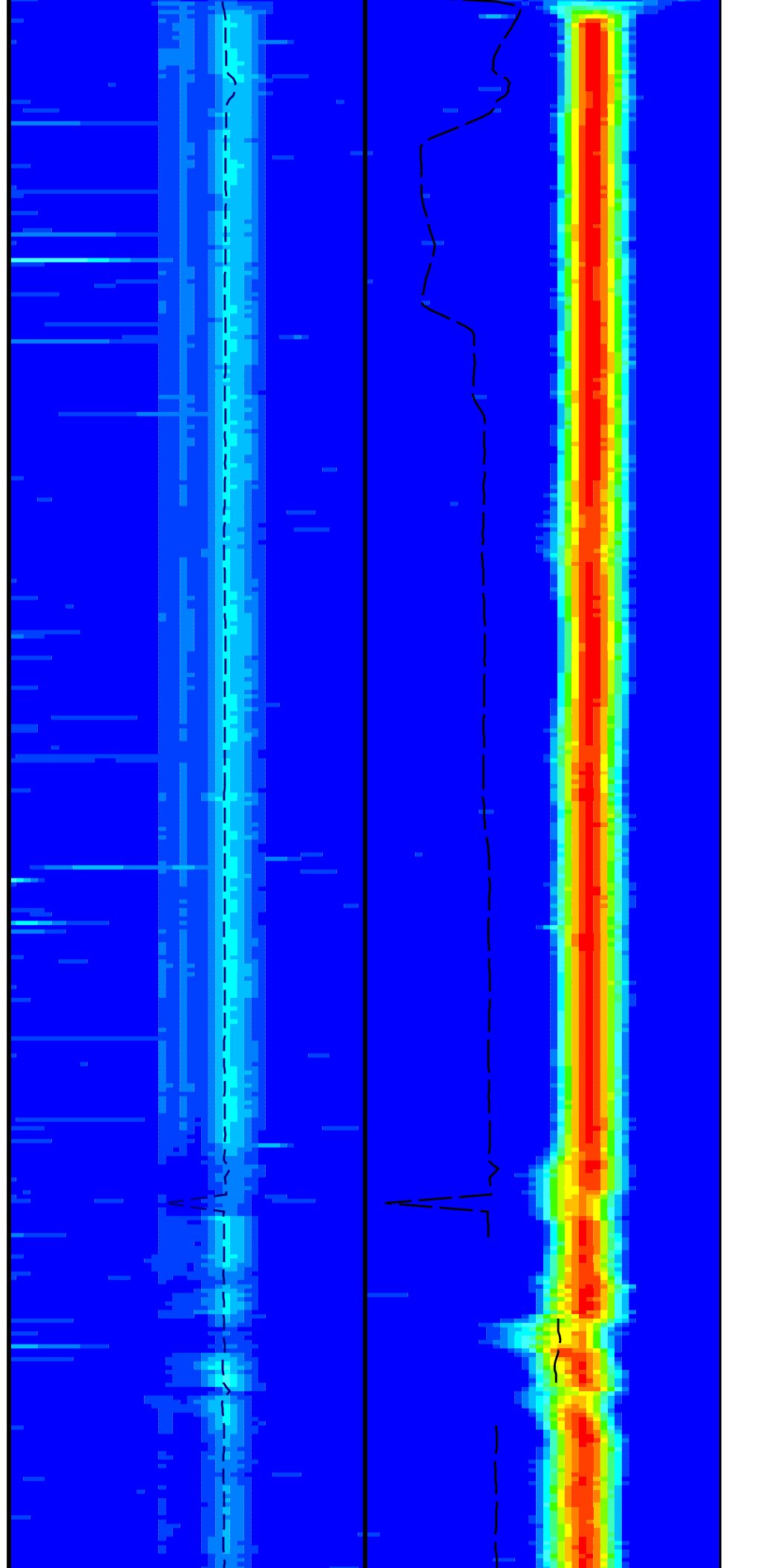
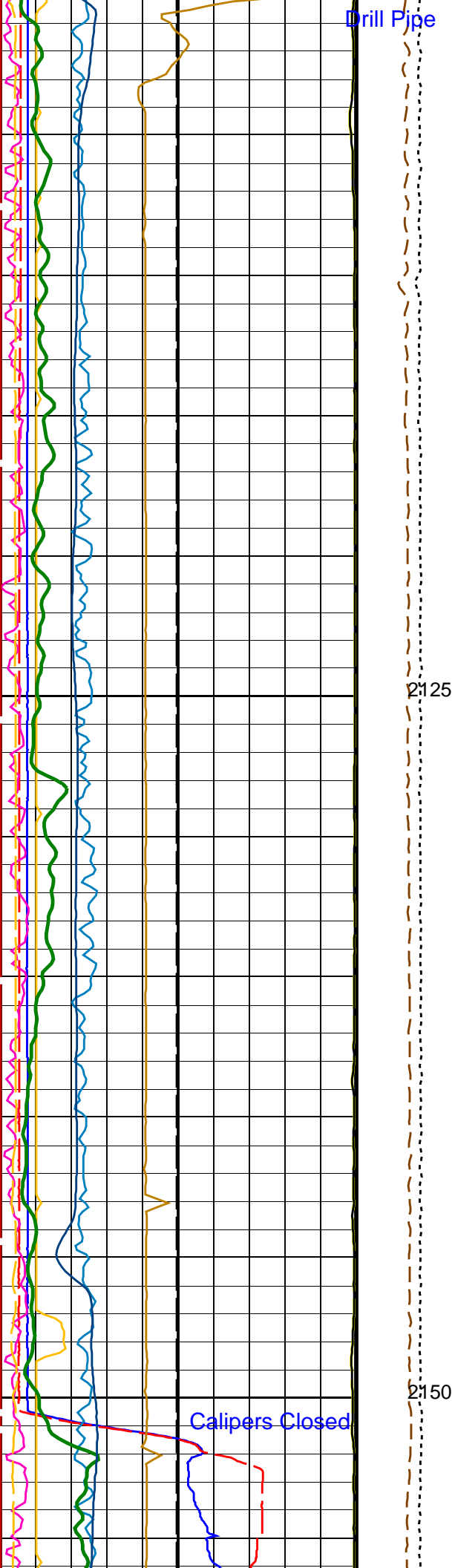
Driller Sea Floor

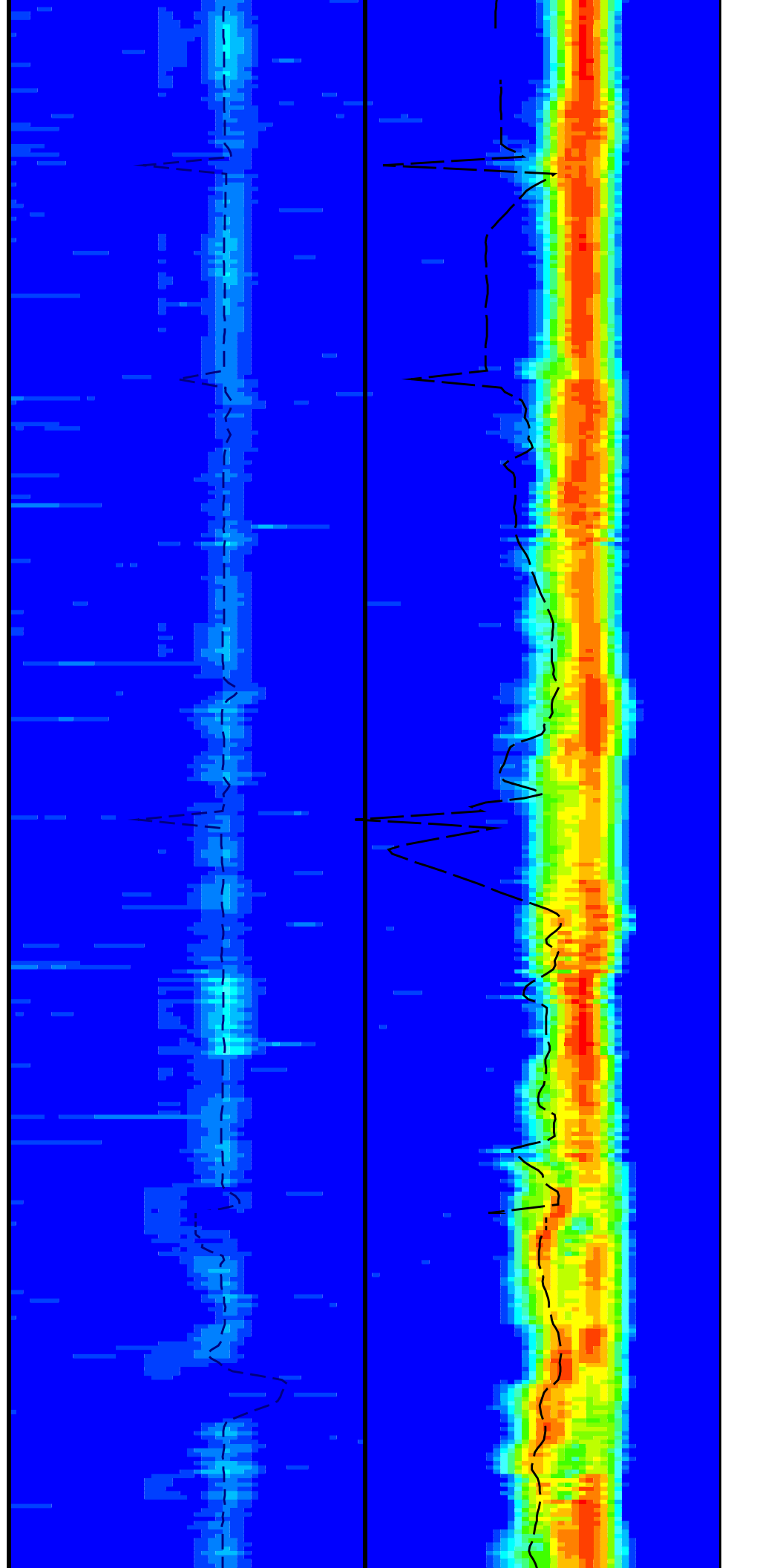
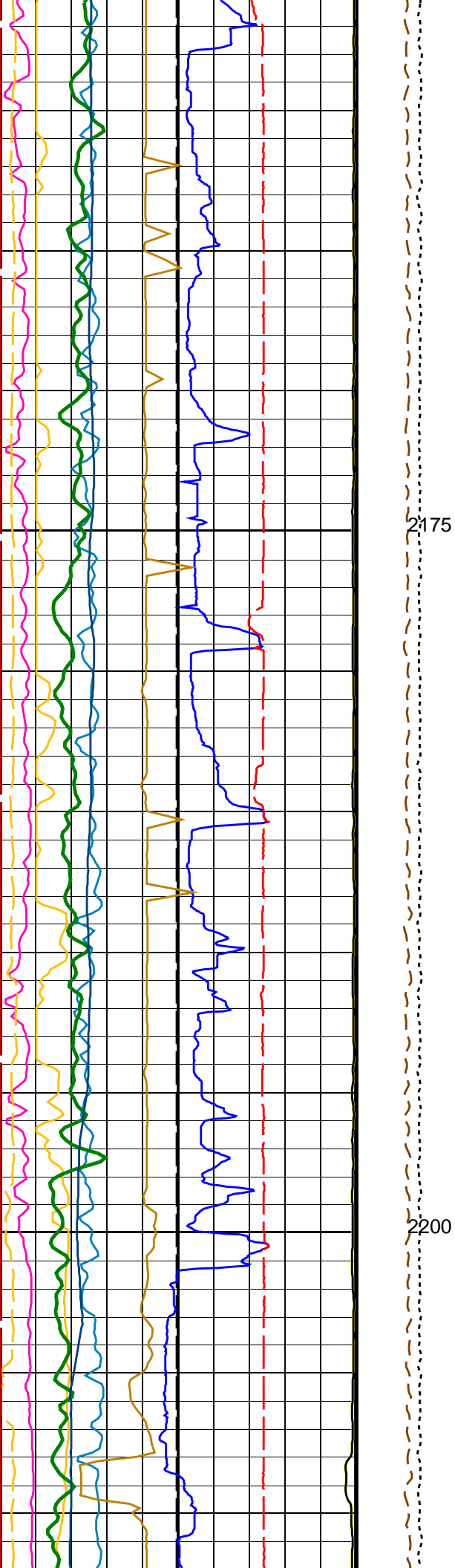
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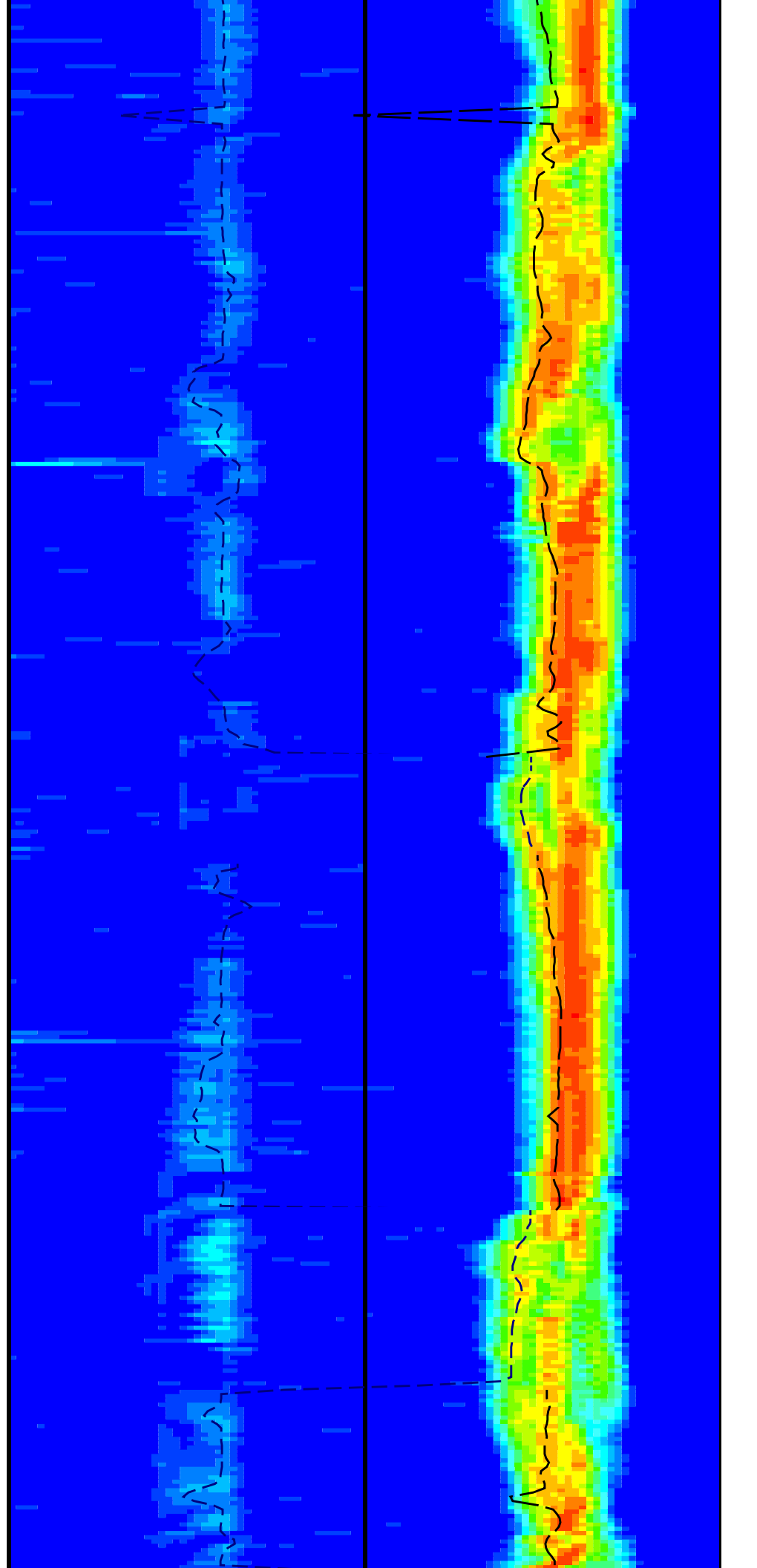
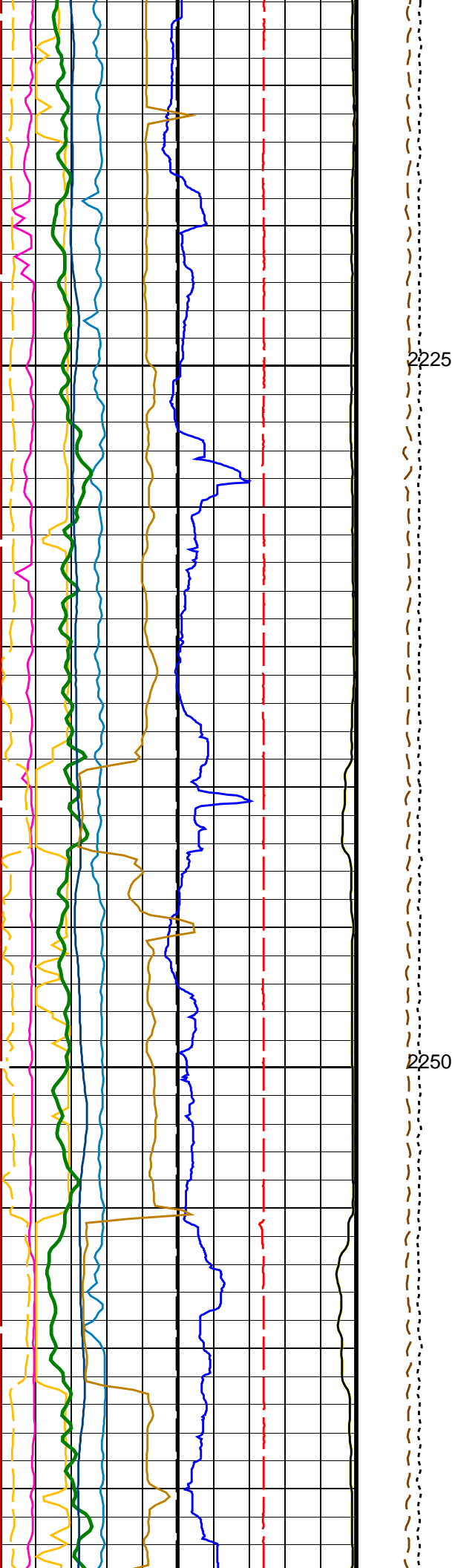
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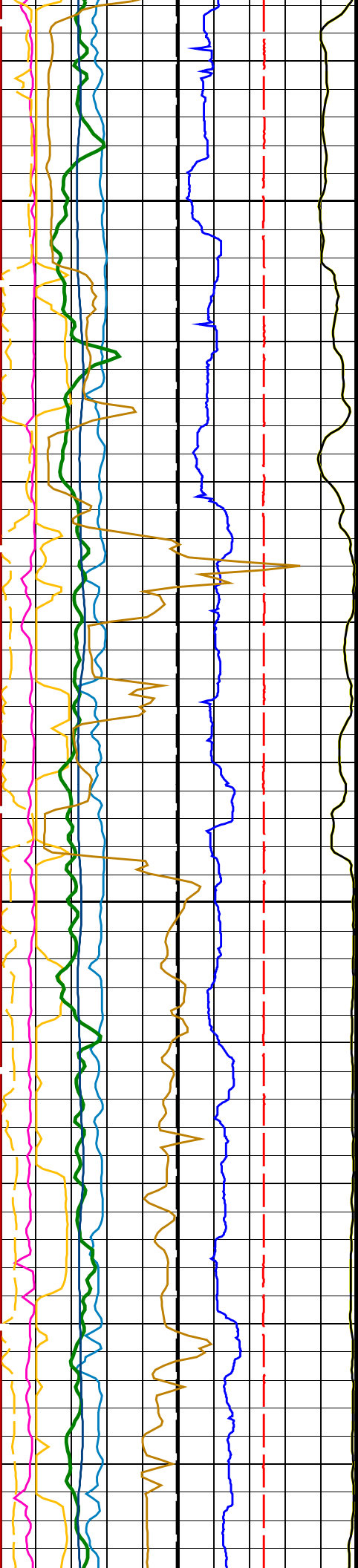






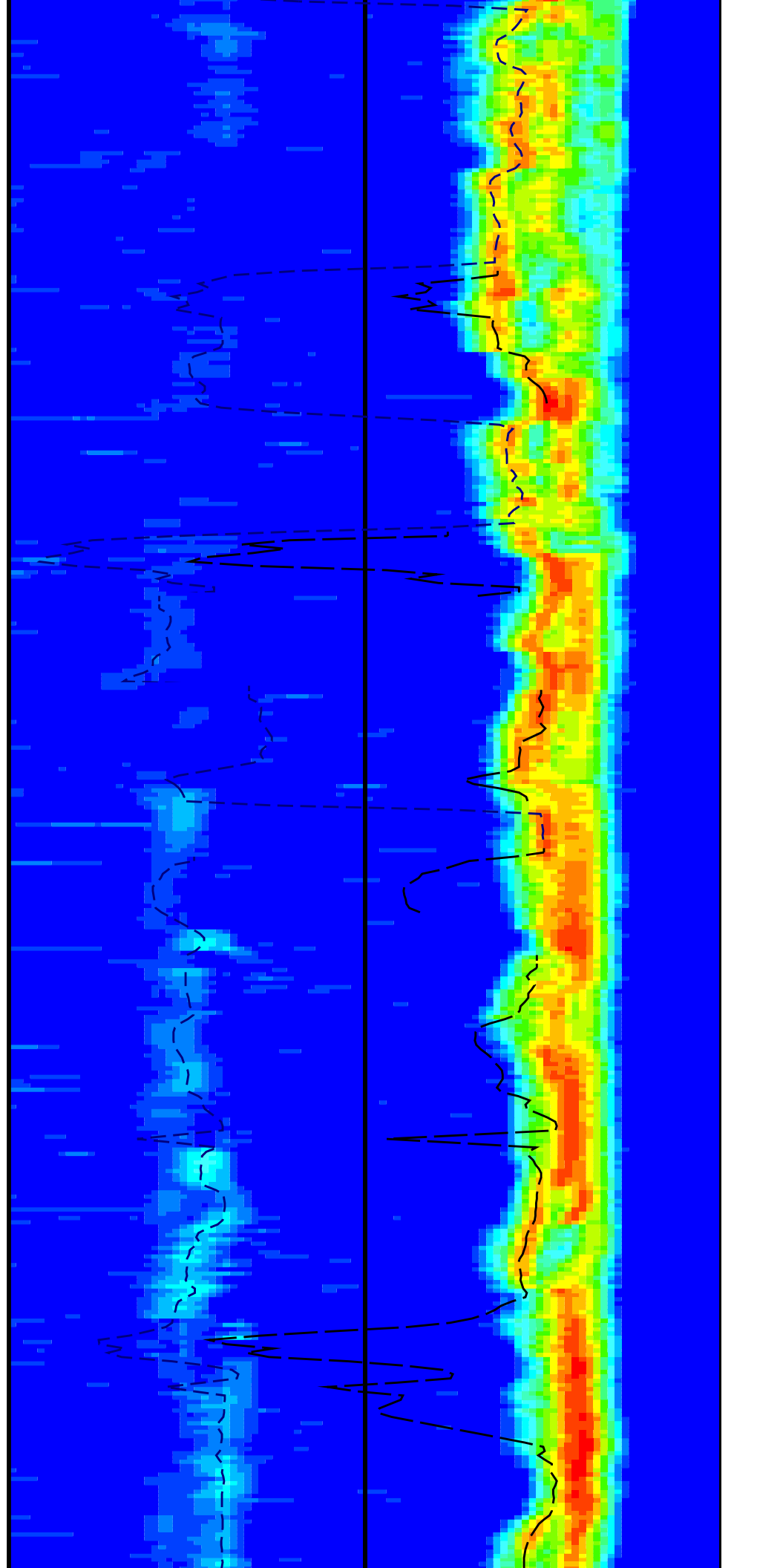




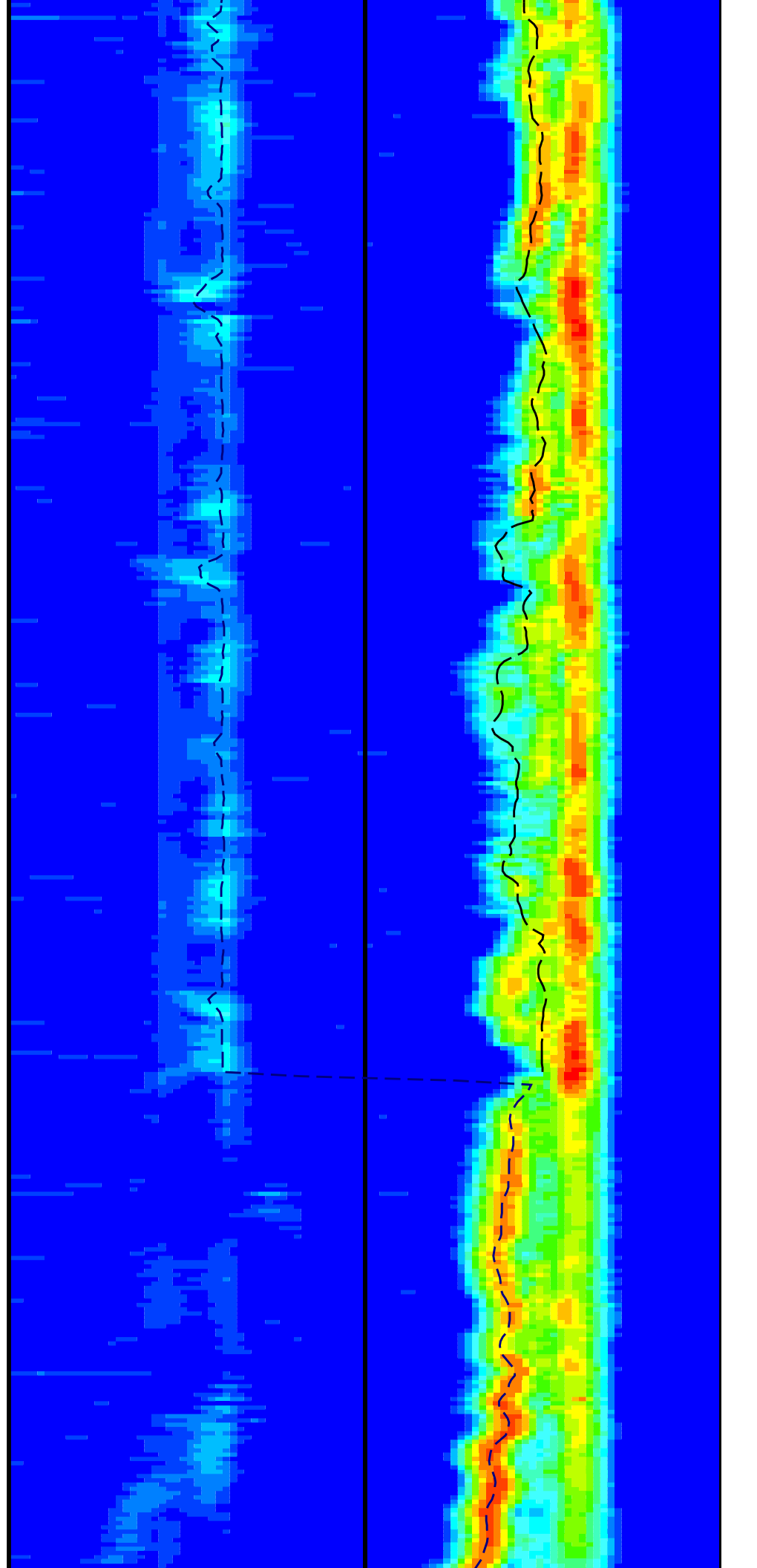
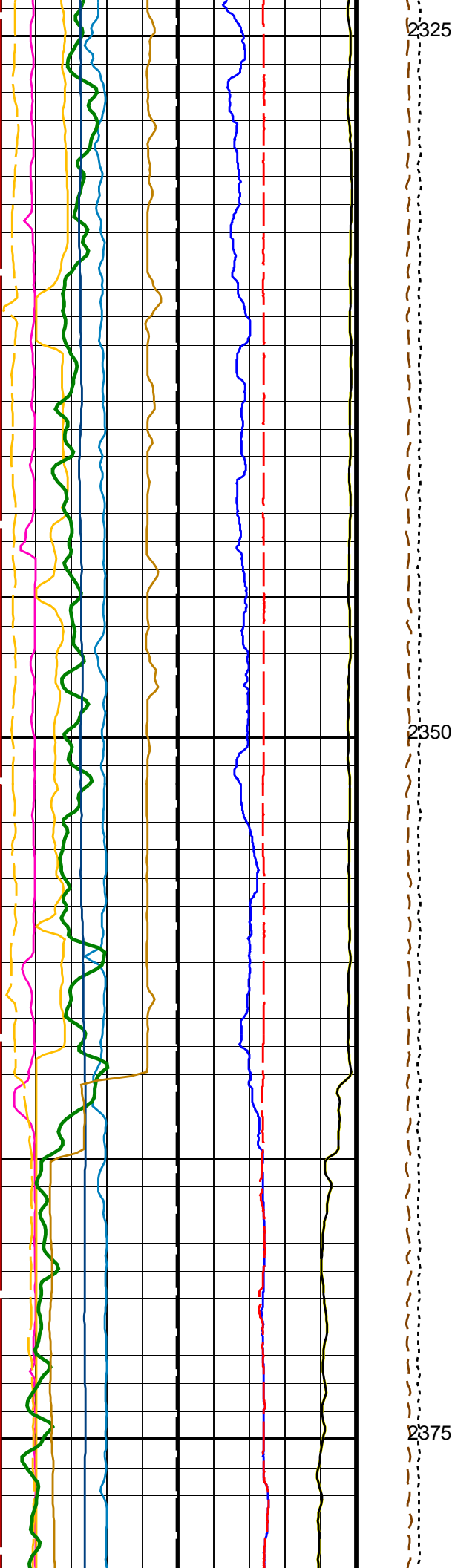


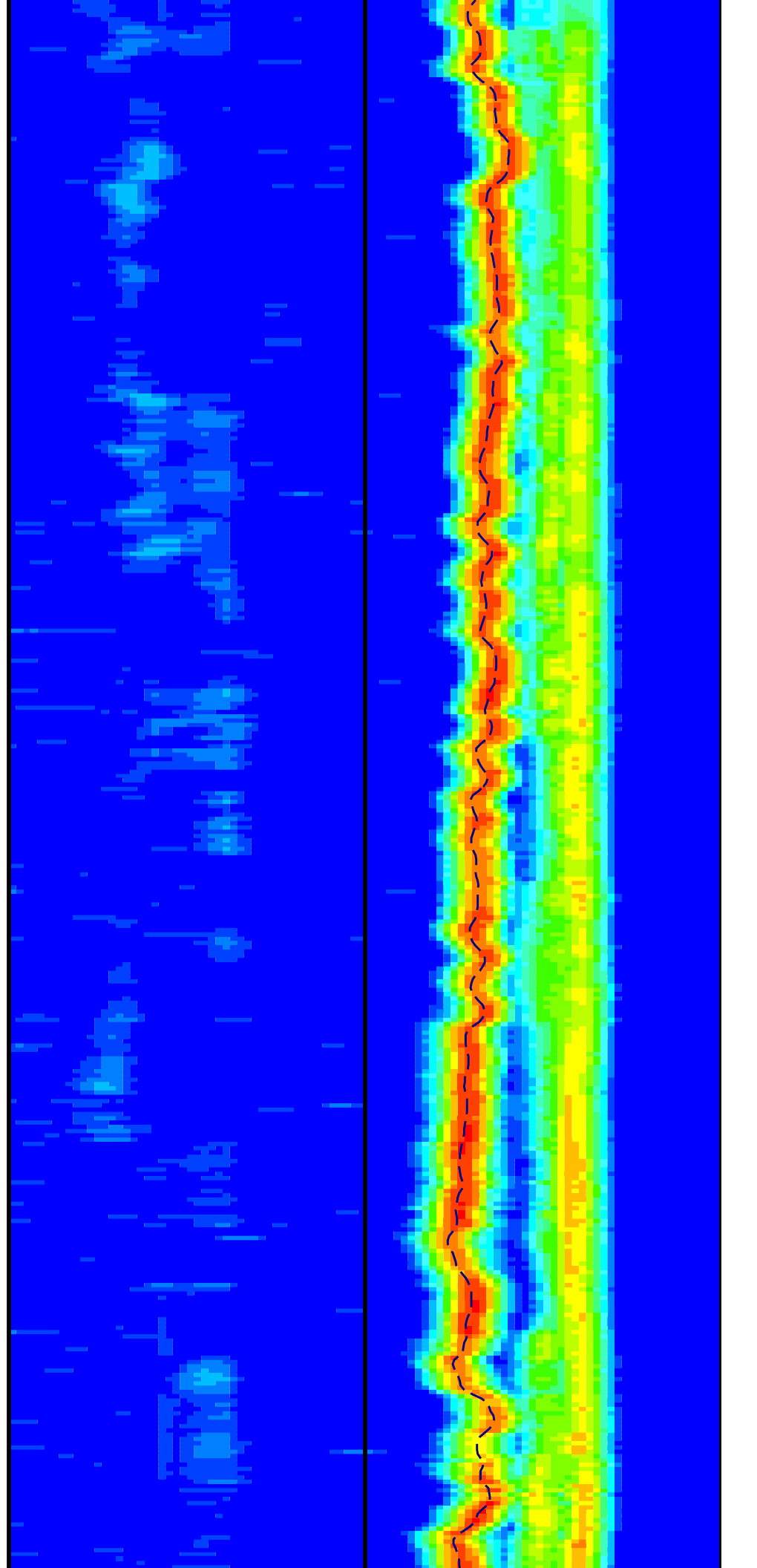
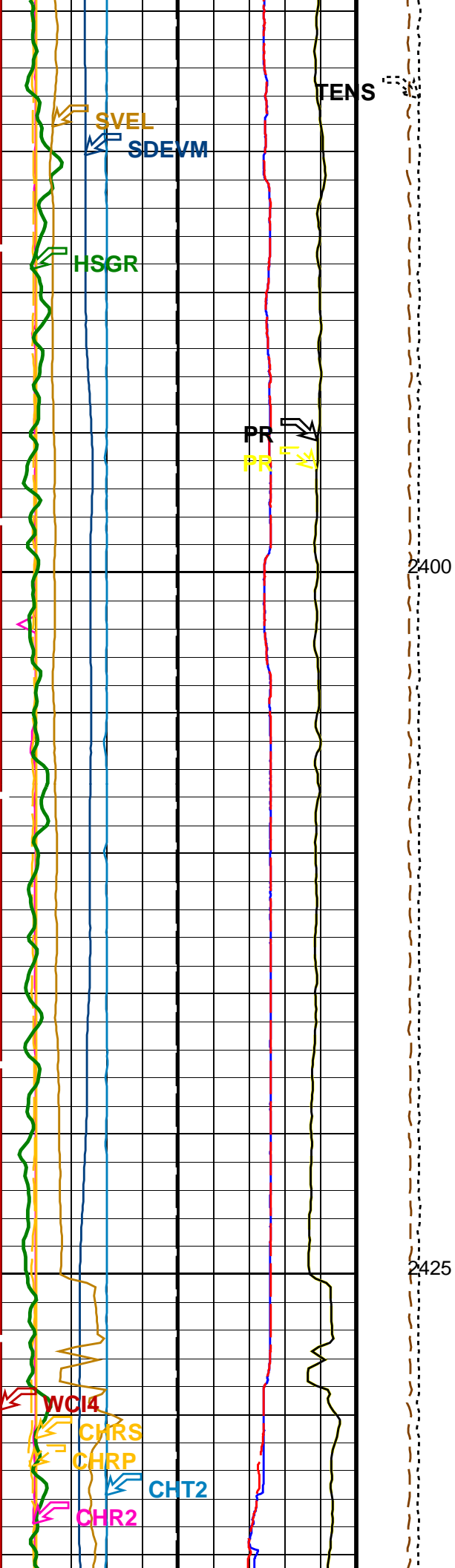
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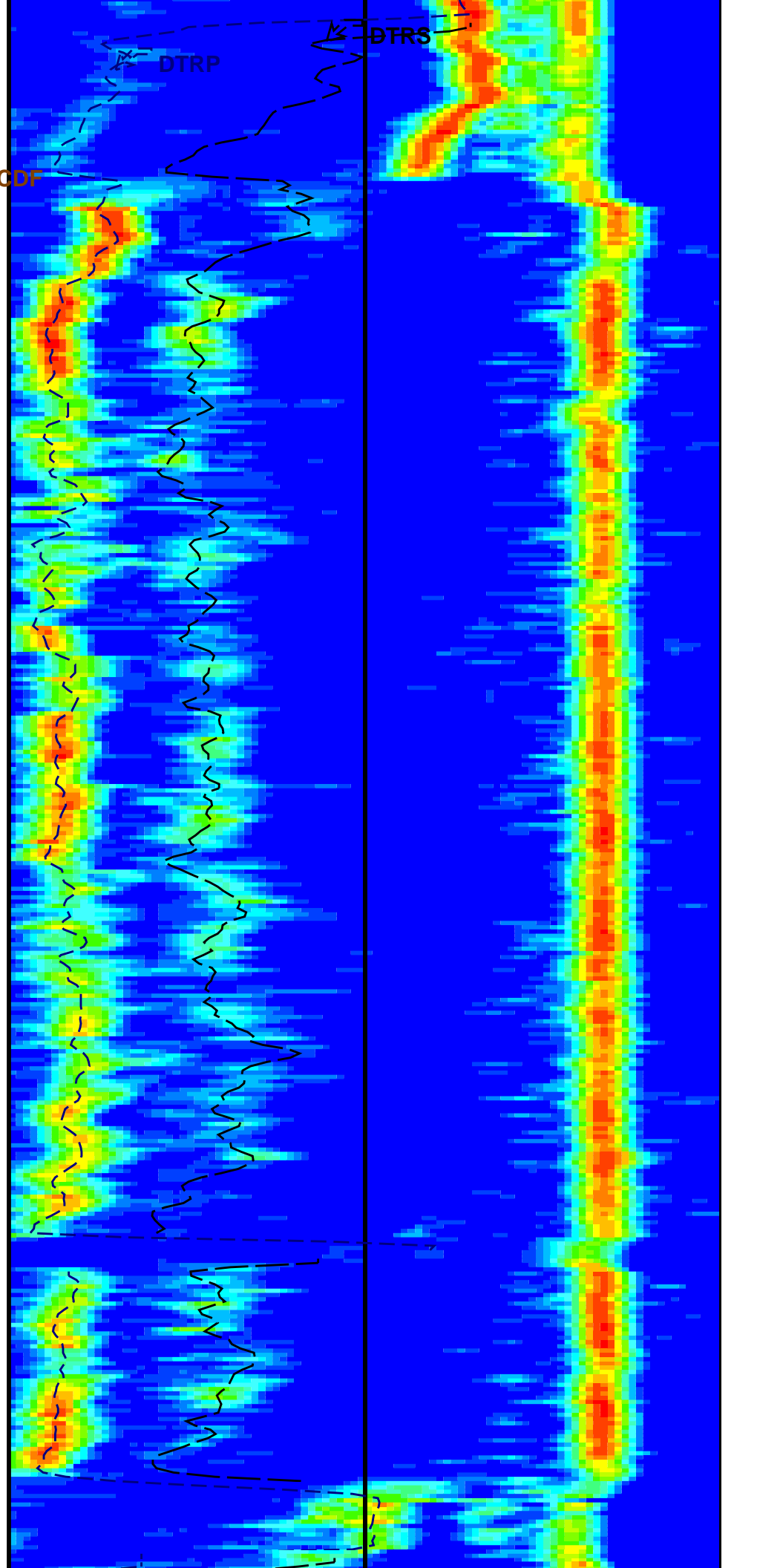
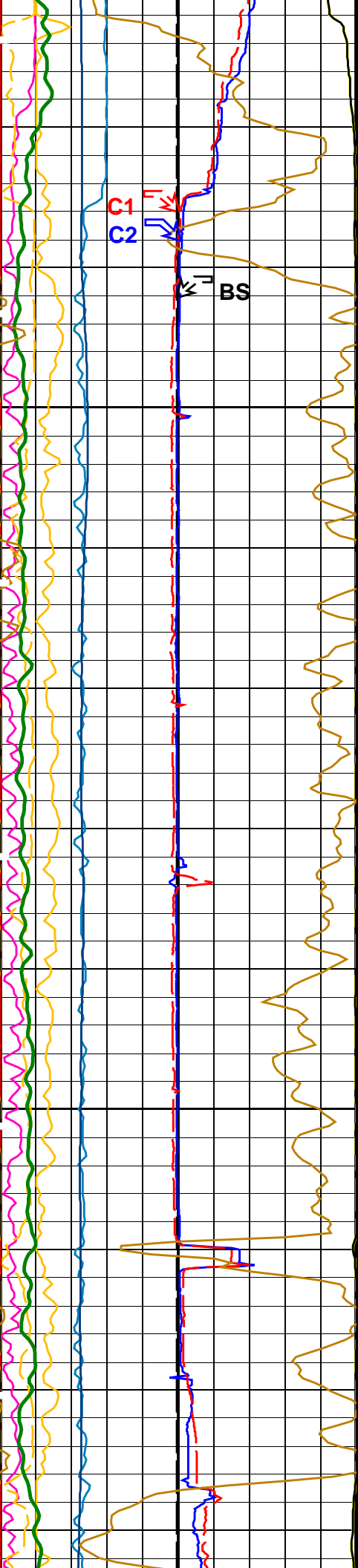
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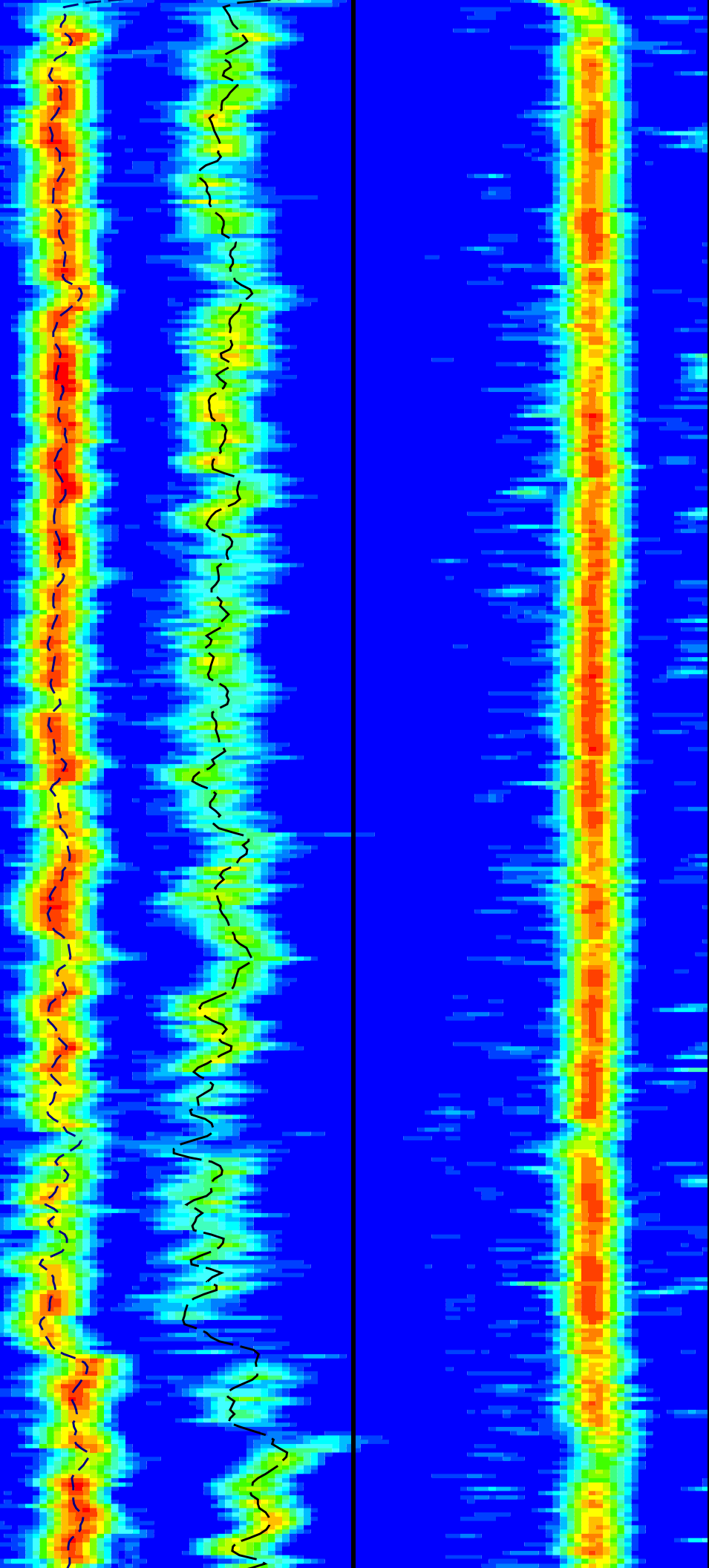
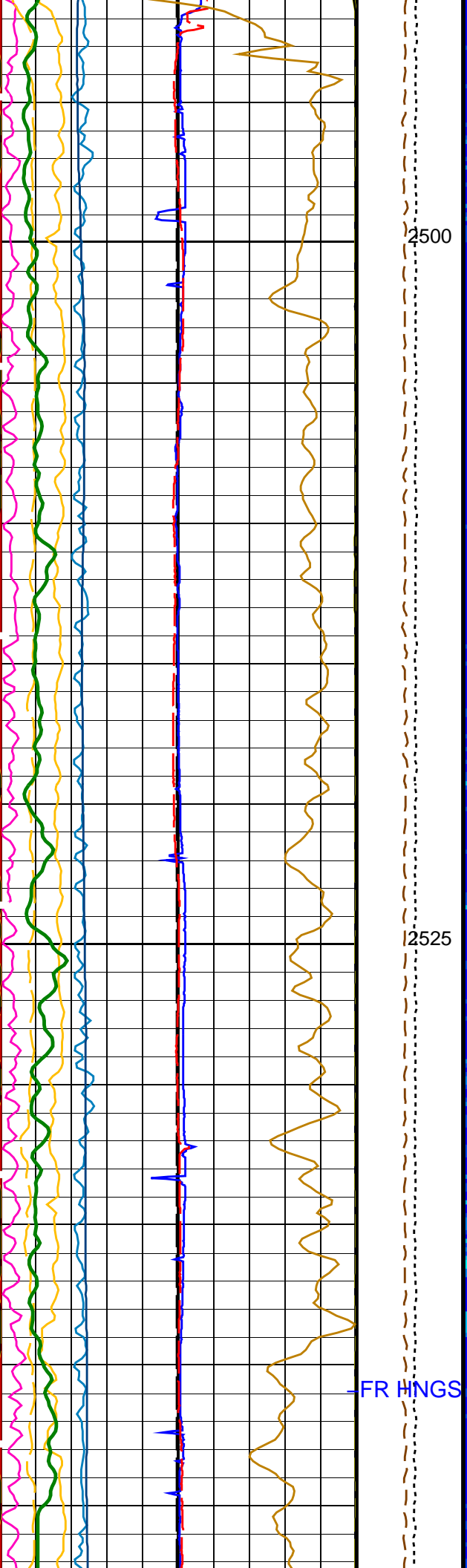


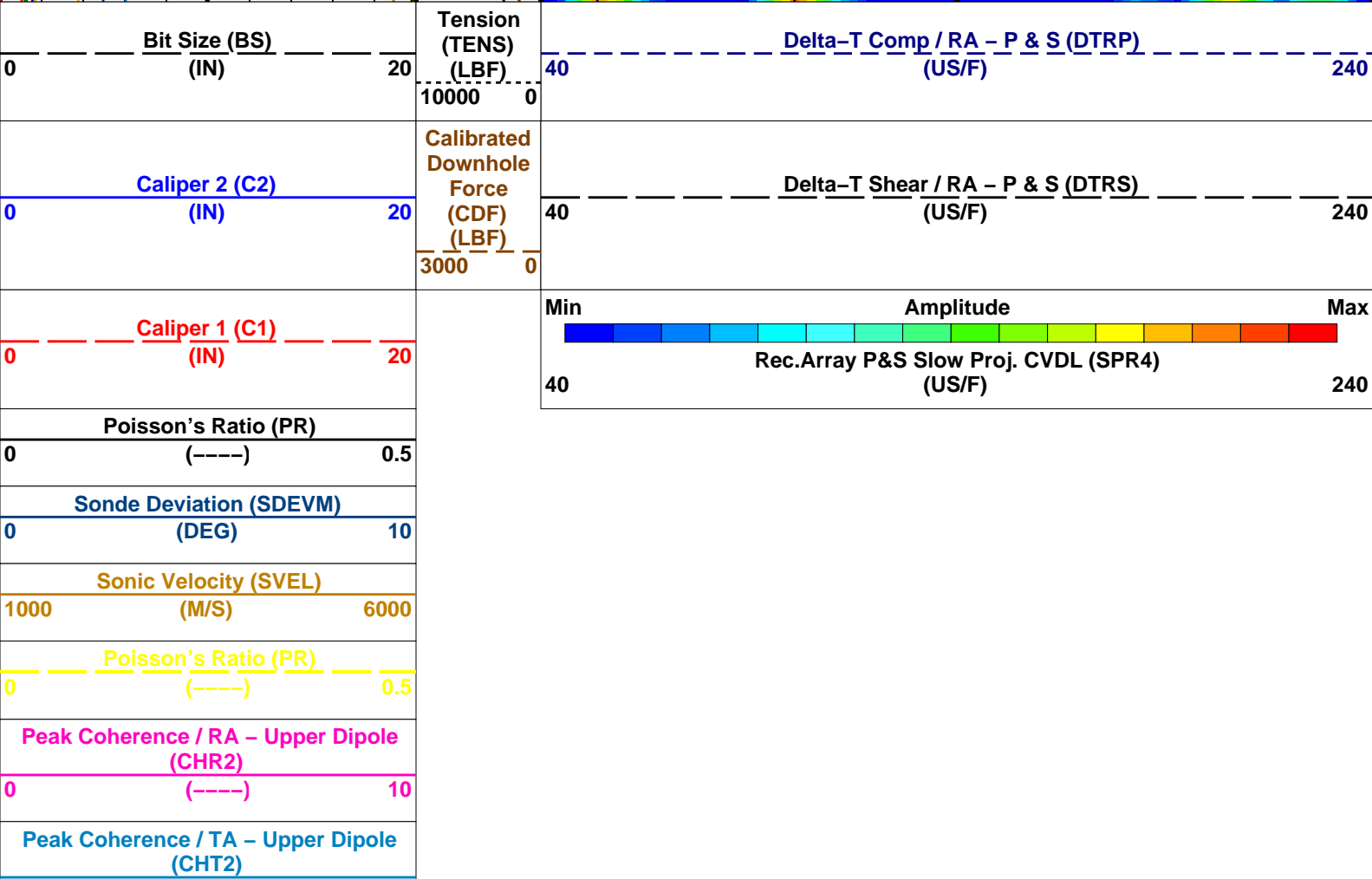
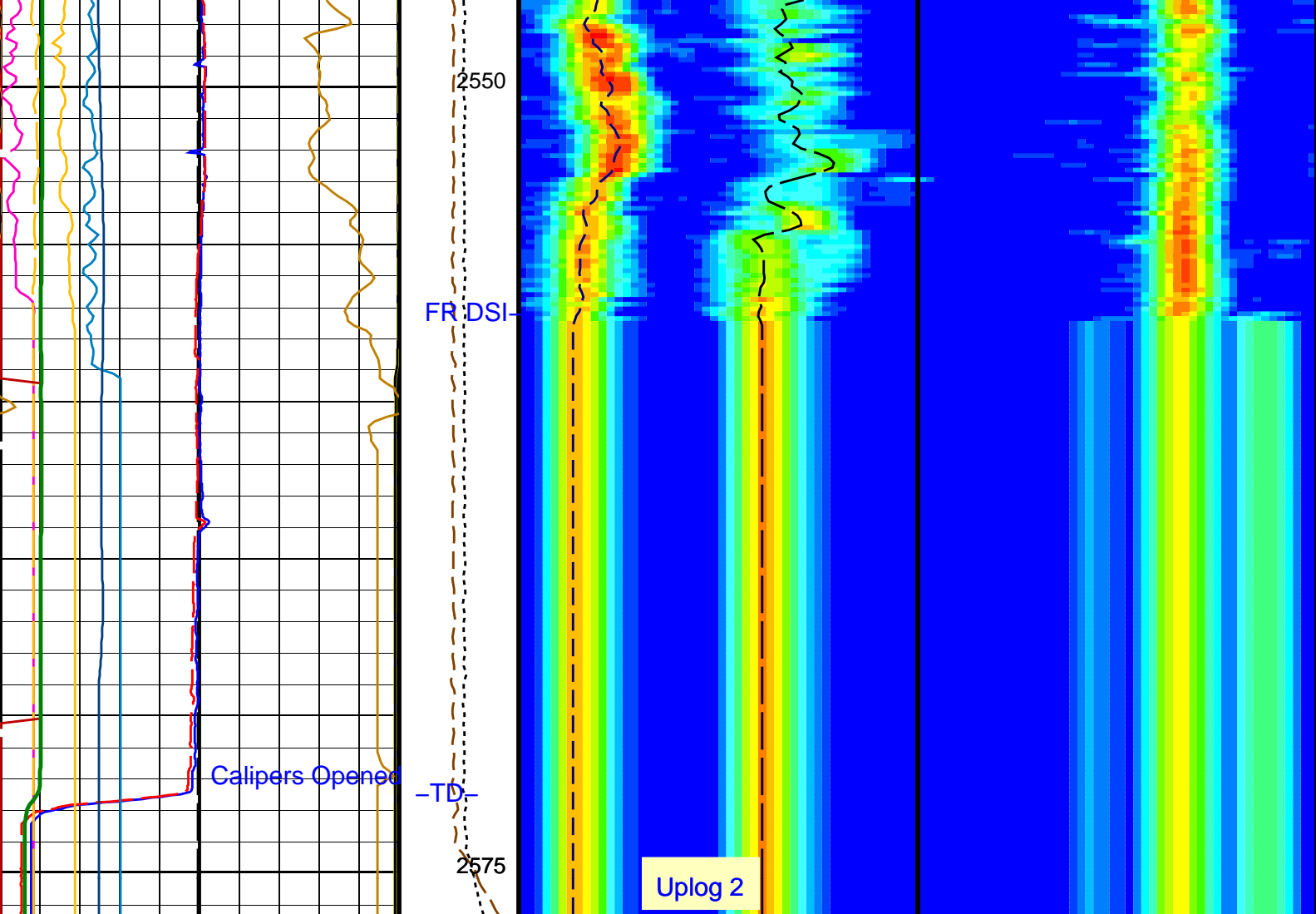












-2	(-----)	8
Peak Coherence / RA – P & S Comp (CHRP)		
0	(-----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(-----)	9
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(-----)	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

## 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	-13.045	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	40	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
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	400	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_SHEAR	
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	70	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	
HNGB–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGB Detector 1 Barite Constant	1	
BAR2	HNGB Detector 2 Barite Constant	1	
BHK	HNGB 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	HNGB Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGB Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGB Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGB Borehole Potassium Running Average	–0.00107005	
HALF	HNGB Alpha Filter Length	60	IN
HCRB	HNGB Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGB Processing Enable	YES	
S1BI	HNGB Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGB Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGB Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGB Detector 1 Variable Barite Factor Running Average	1.0442	
VBA2	HNGB Detector 2 Variable Barite Factor Running Average	1.06133	
System and Miscellaneous			
BS	Bit Size	9.875	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: 20–Jul–2021 05:53

## OP System Version: 19C0–187

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

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_028LUP	FN:47	PRODUCER	20–Jul–2021 04:31	2576.3 M	1986.7 M
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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:57	PRODUCER	20–Jul–2021 05:53		
BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20–Jul–2021 05:53		

Company: International Ocean Discovery Program    Well: Expedition 395C, Site U1562B

## Input DLIS Files

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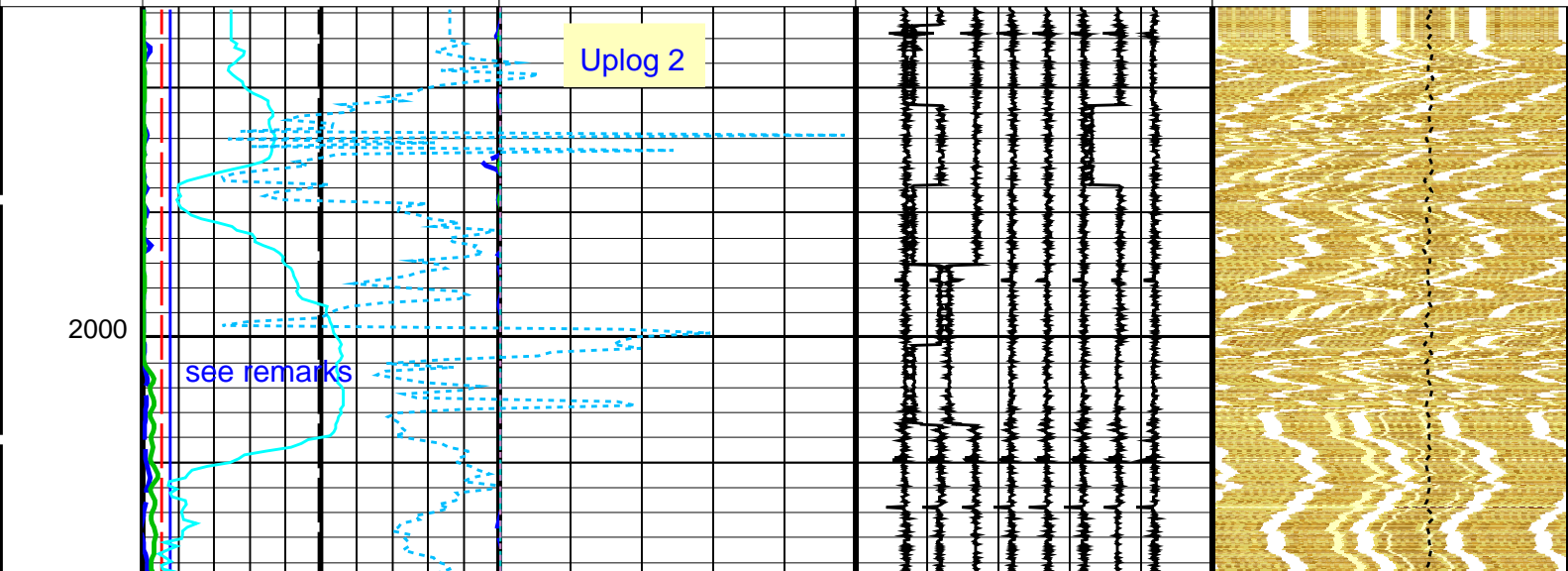
## Output DLIS Files

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BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20–Jul–2021 05:53	2576.3 M	1986.7 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

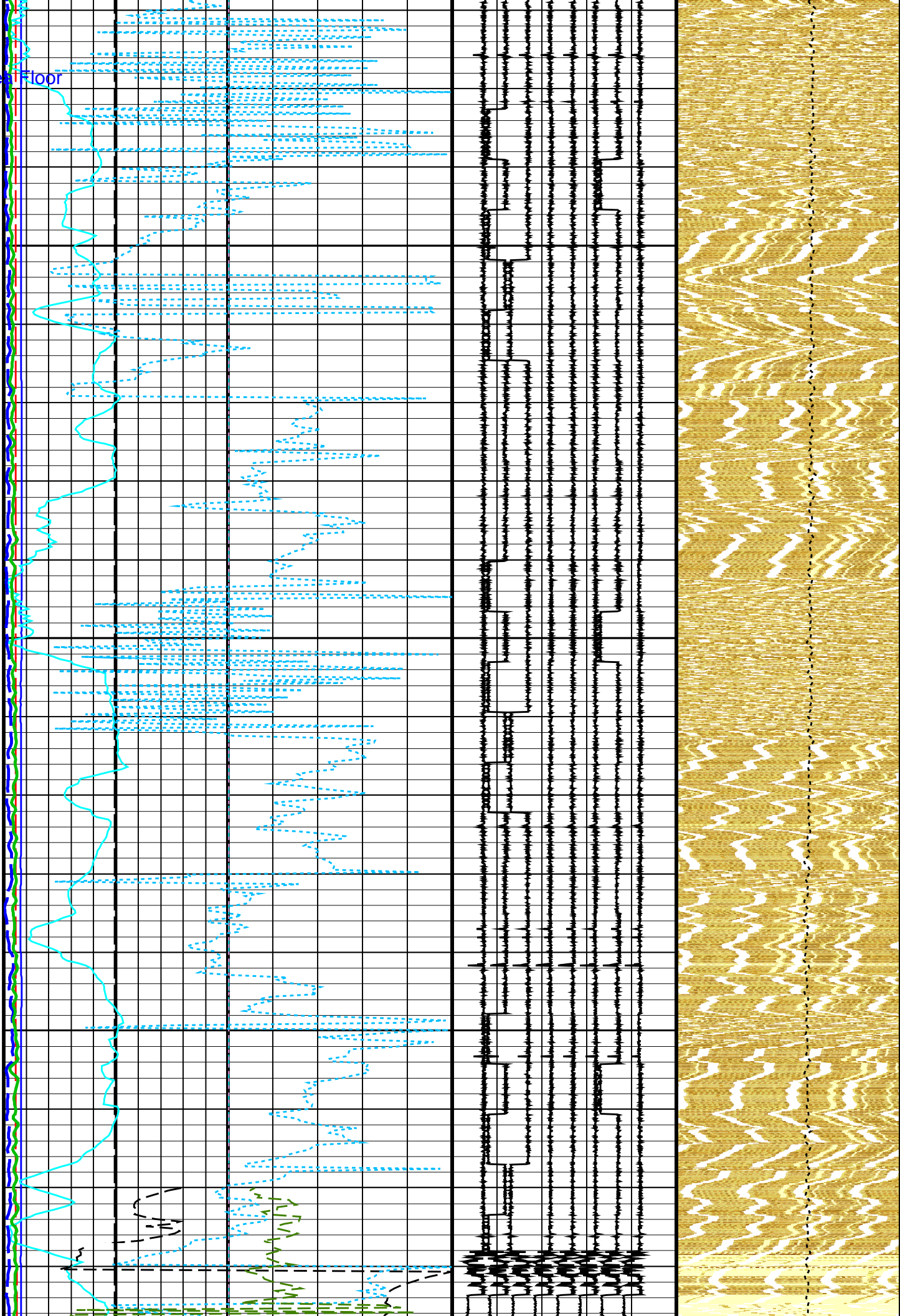
PIP SUMMARY									
Time Mark Every 60 S									
<div>HNGS Spectroscopy Gamma Ray (HSGR)</div> <div>0 (GAPI) 100</div>									
<div>HNGS Computed Gamma Ray (HCGR)</div> <div>0 (GAPI) 100</div>			<div>Data Button 8 – Varies with RBS (U-MEST_RB8)</div> <div>-80 (----) 20</div>						
<div>Bit Size (BS)</div> <div>0 (IN) 20</div>			<div>Data Button 7 – Varies with RBS (U-MEST_RB7)</div> <div>-70 (----) 30</div>						
<div>Relative Bearing (RB_MEST)</div> <div>-40 (DEG) 360</div>			<div>Data Button 6 – Varies with RBS (U-MEST_RB6)</div> <div>-60 (----) 40</div>						
<div>Pad One Azimuth (P1AZ_MEST)</div> <div>-40 (DEG) 360</div>			<div>Data Button 5 – Varies with RBS (U-MEST_RB5)</div> <div>-50 (----) 50</div>				<div><div>0.37761.86292.45712.90273.34823.64533.94244.23944.68505.13065.42776.02186.61597.65579.451712.4086</div><div>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)</div><div>(----)</div></div>		
<div>Hole Azimuth (HAZIM)</div> <div>-40 (DEG) 360</div>			<div>Data Button 4 – Varies with RBS (U-MEST_RB4)</div> <div>-40 (----) 60</div>				<div><div>0.37761.86292.45712.90273.34823.64533.94244.23944.68505.13065.42776.02186.61597.65579.451712.4086</div><div>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS)</div><div>(----)</div></div>		
<div>Deviation (DEVIM)</div> <div>0 (DEG) 10</div>			<div>Data Button 3 – Varies with RBS (U-MEST_RB3)</div> <div>-30 (----) 70</div>				<div><div>0.37761.86292.45712.90273.34823.64533.94244.23944.68505.13065.42776.02186.61597.65579.451712.4086</div><div>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS)</div><div>(----)</div></div>		
<div>Caliper 2 (C2)</div> <div>0 (IN) 20</div>		<div>EMEX Intensity (EI)</div> <div>0 (AMPS) 10</div>		<div>Data Button 2 – Varies with RBS (U-MEST_RB2)</div> <div>-20 (----) 80</div>				<div><div>0.37761.86292.45712.90273.34823.64533.94244.23944.68505.13065.42776.02186.61597.65579.451712.4086</div><div>MEST_PADA (U-MEST_RESISTIVITY_PADA_DS)</div><div>(----)</div></div>	
<div>Caliper 1 (C1)</div> <div>0 (IN) 20</div>		<div>EMEX Voltage (EV)</div> <div>0 (V) 50</div>		<div>Data Button 1 – Varies with RBS (U-MEST_RB1)</div> <div>-10 (----) 90</div>				<div>Tension (TENS)</div> <div>10000 (LBF) 0</div>	





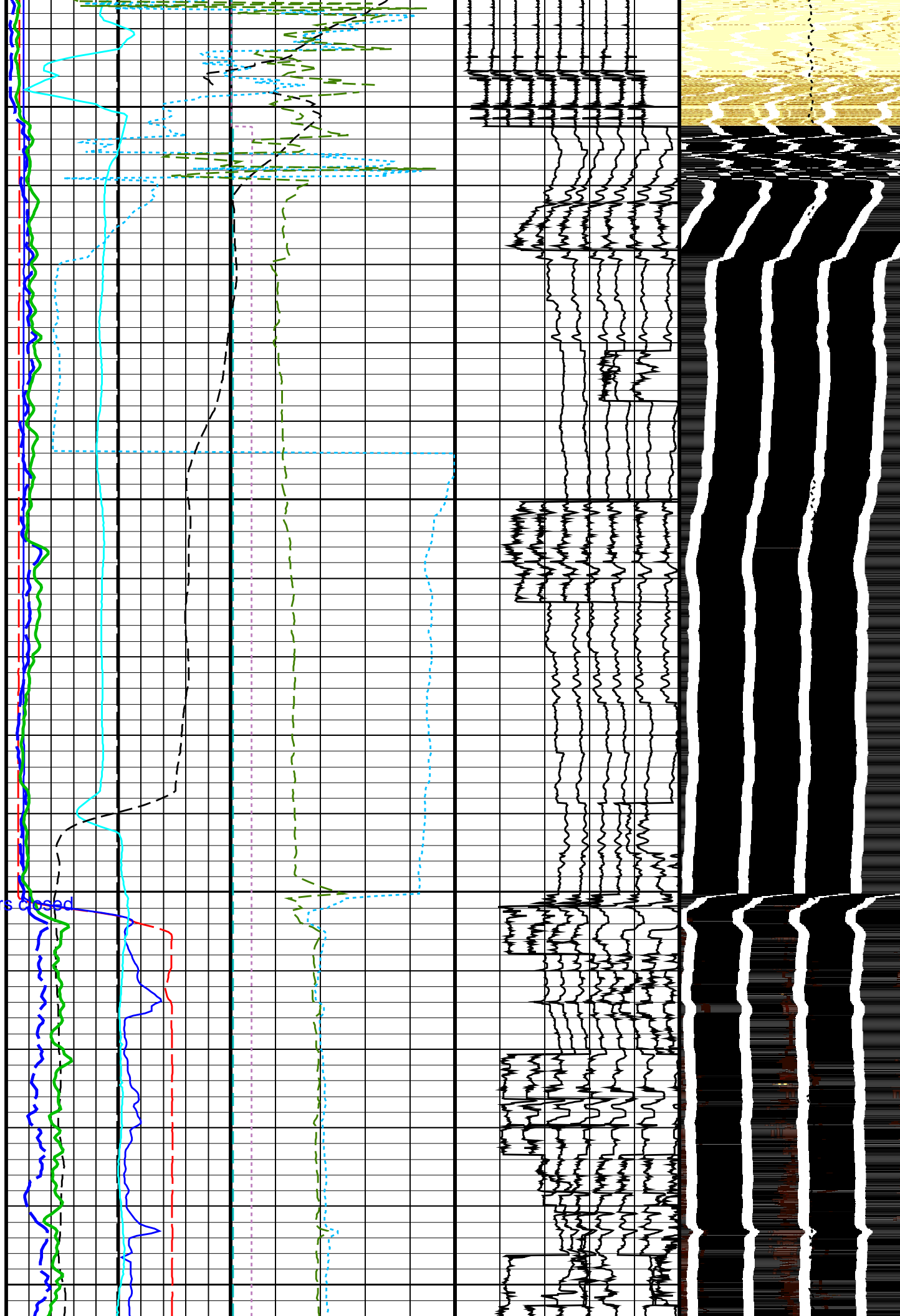
Driller Seal Floor

2050



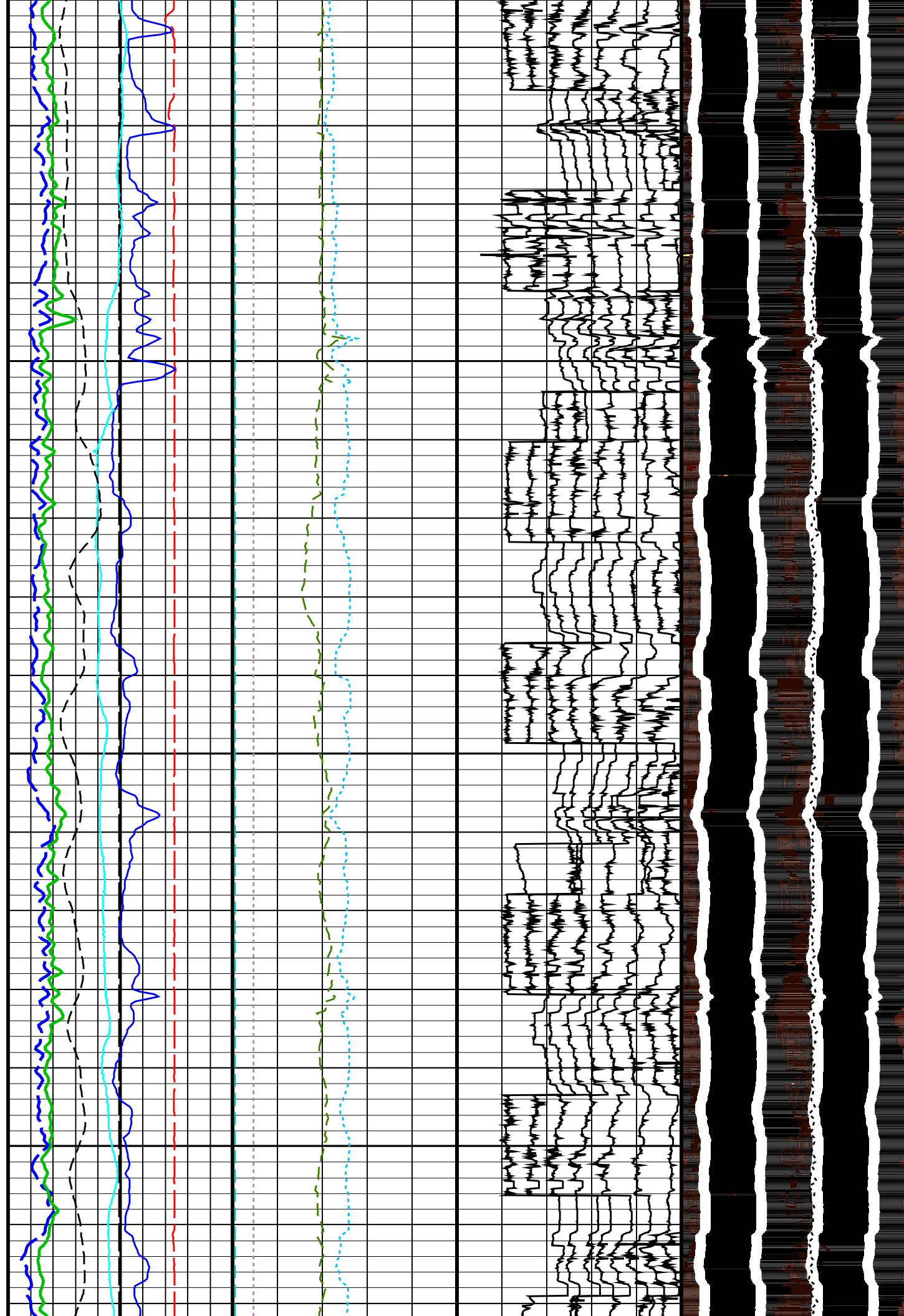
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Drill Pipe

2150  
calipers closed

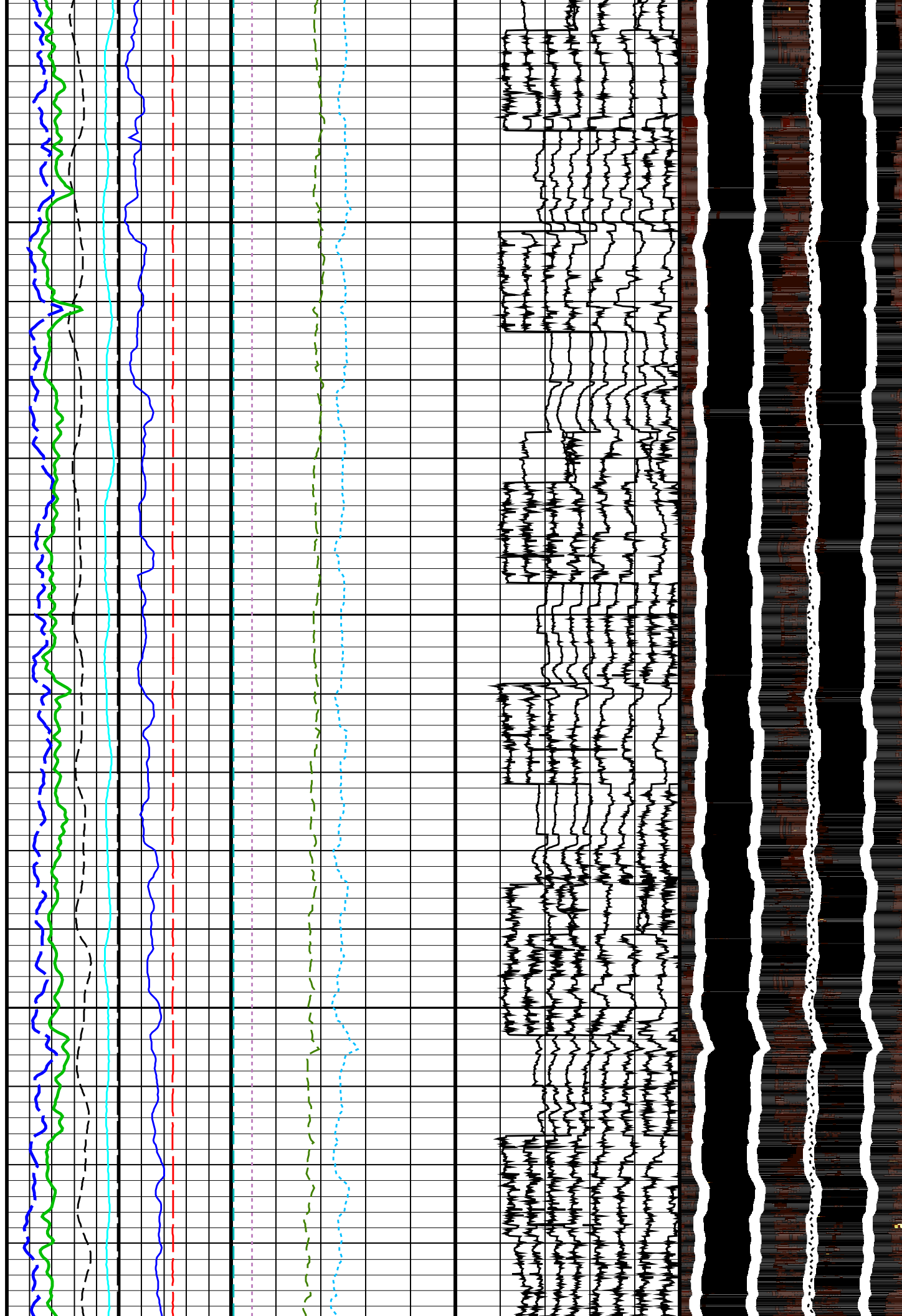


2200

2250



2300





2350

2400

RB\_MEST

P1AZ\_MEST

U-MEST\_RB7

U-MEST\_RB6

U-MEST\_RB5

U-MEST\_RB4

U-MEST\_RB3

U-MEST\_RB2

U-MEST\_RB1

PadC wrapped by P1AZ

PadB wrapped by P1AZ

PadA wrapped by P1AZ

adD wrapped by P1AZ

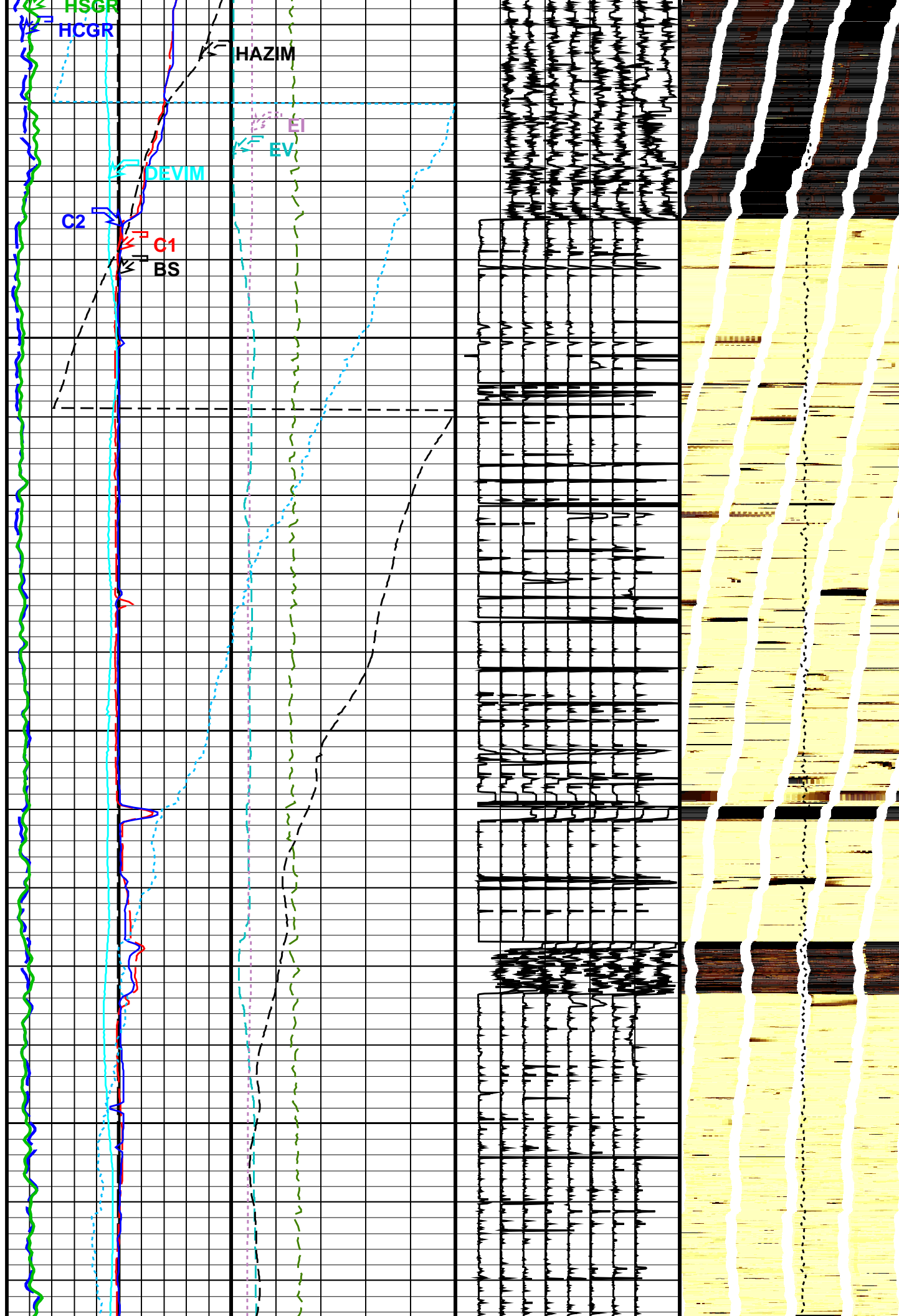
adC wrapped by P1AZ

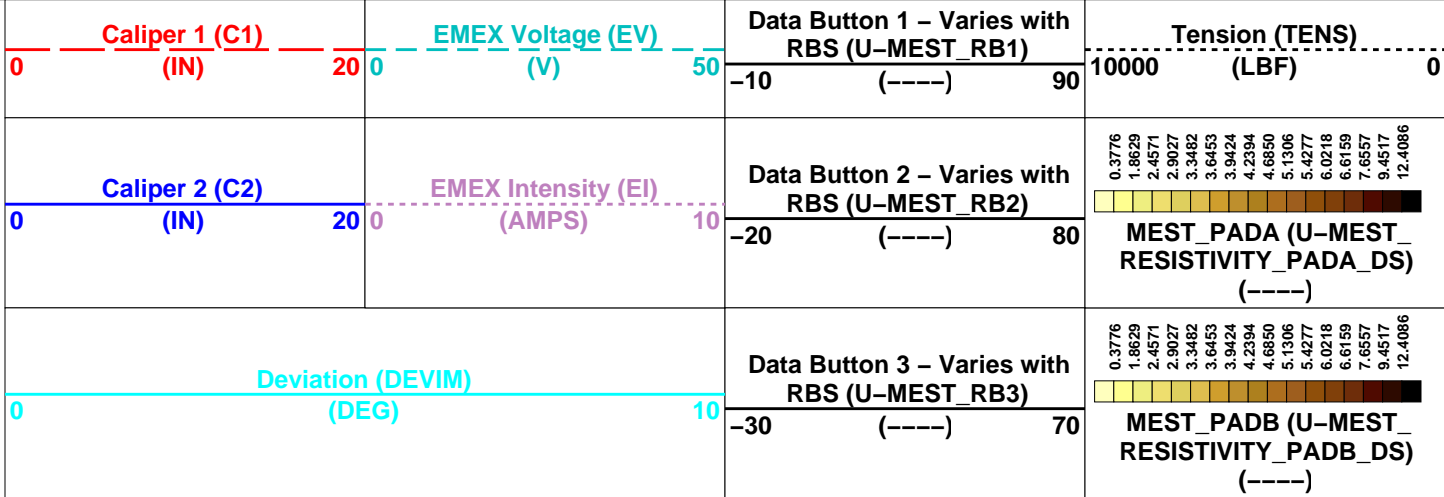
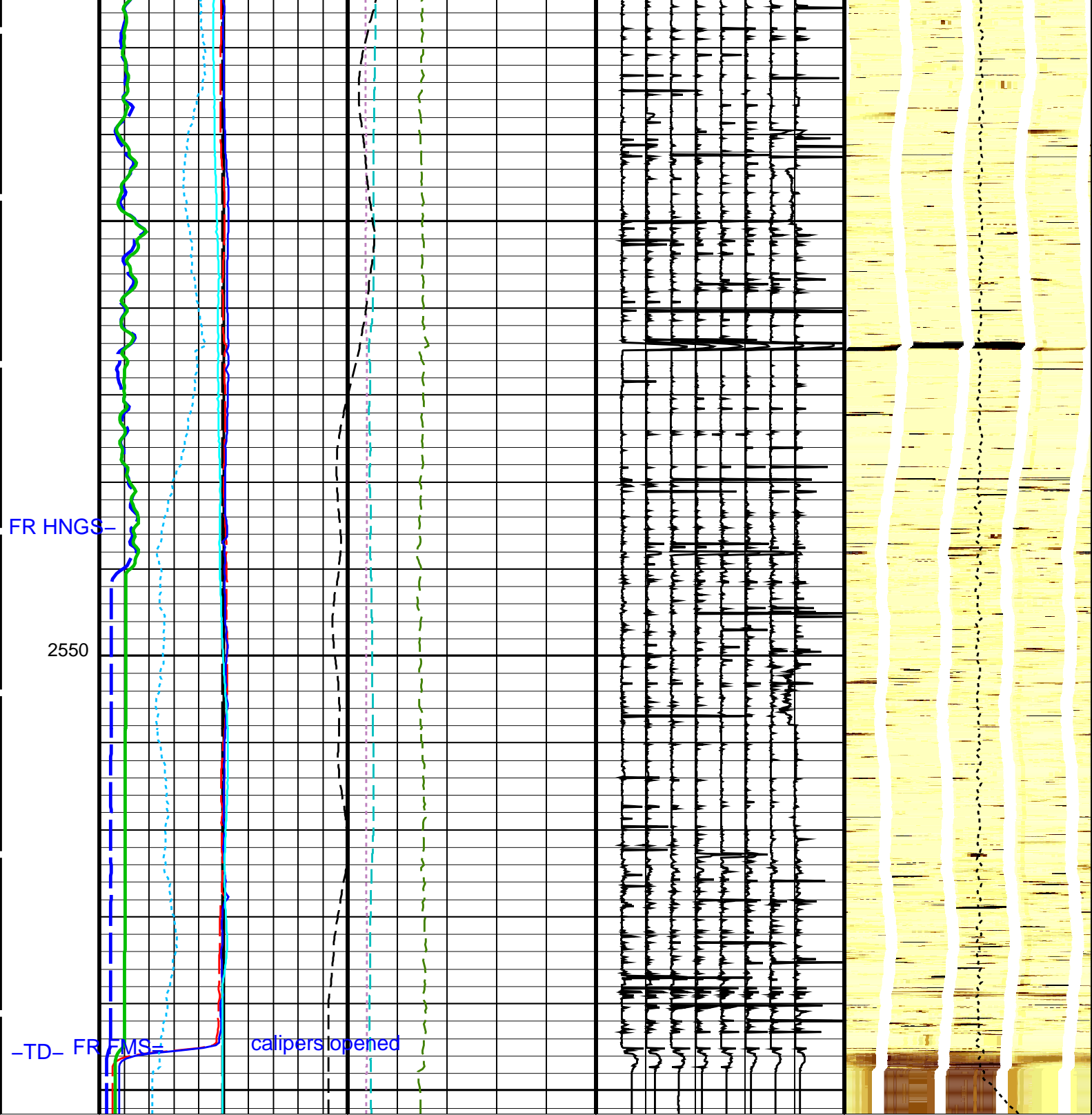
adB wrapped by P1AZ

adA wrapped by P1AZ

2450

2500





Hole Azimuth (HAZIM) (DEG)		Data Button 4 – Varies with RBS (U-MEST_RB4)	<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> </div>
-40	360	-40 (----) 60	MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)
Pad One Azimuth (P1AZ_MEST) (DEG)		Data Button 5 – Varies with RBS (U-MEST_RB5)	<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> </div>
-40	360	-50 (----) 50	MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)
Relative Bearing (RB_MEST) (DEG)		Data Button 6 – Varies with RBS (U-MEST_RB6)	
-40	360	-60 (----) 40	
Bit Size (BS) (IN)		Data Button 7 – Varies with RBS (U-MEST_RB7)	
0	20	-70 (----) 30	
HNCS Computed Gamma Ray (HCGR) (GAPI)		Data Button 8 – Varies with RBS (U-MEST_RB8)	
0	100	-80 (----) 20	
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	-13.045	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	-0.00107005	
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	1.0442	
VBA2	HNCS Detector 2 Variable Barite Factor Running Average	1.06133	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	



# 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_028LUP	FN:47	PRODUCER	20-Jul-2021 04:31	2576.3 M	1986.7 M
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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:57	PRODUCER	20-Jul-2021 05:53
BACKUP	FMS_DSI_NGS_034PUP	FN:58	PRODUCER	20-Jul-2021 05:53

## 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 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: 20-Jul-2021 0:51							
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: 20-Jul-2021 0:51							
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: 2-May-2021 10:04 Before: 13-Jun-2021 9:44 After: 2-May-2021 10:16							
Na 511 Peak Loc	40.00	39.25	39.64	39.73	0.09286	1.000	
Na 511 Peak Res	15.50	16.53	14.84	15.11	0.2734	2.000	%
High Voltage	1150	1197	1168	1198	30.38	N/A	V
Na 1785 Peak Loc	142.6	141.8	143.3	141.2	-2.089	7.000	
Na 1785 Peak Res	8.500	8.905	7.709	9.136	1.427	2.000	%
Temperature	15.50	26.59	11.69	26.63	14.94	N/A	DEGC
Na Count Rate	45.00	12.01	12.89	12.67	-0.2204	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 2-May-2021 10:04 Before: 13-Jun-2021 9:44 After: 2-May-2021 10:16							
Na 511 Peak Loc	40.00	39.88	39.51	39.79	0.2834	1.000	
Na 511 Peak Res	15.50	15.29	15.27	15.32	0.05639	2.000	%
High Voltage	1150	1122	1090	1121	30.63	N/A	V
Na 1785 Peak Loc	142.6	142.6	140.8	142.5	1.645	7.000	
Na 1785 Peak Res	8.500	8.040	9.507	10.27	0.7659	2.000	%
Temperature	15.50	27.21	12.30	27.24	14.94	N/A	DEGC
Na Count Rate	45.00	12.32	13.60	12.95	-0.6521	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 2-May-2021 10:04 Before: 13-Jun-2021 9:44 After: 2-May-2021 10:16							
Coincidence Count Rate Ratio	1.000	0.9728	0.9527	0.9769	0.02428	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration							
Master: 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: 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



















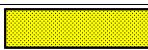
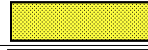

Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master	<div><div></div></div>		39.25	Master	<div><div></div></div>		16.53	Master	<div><div></div></div>		1197
Before	<div><div></div></div>		39.64	Before	<div><div></div></div>		14.84	Before	<div><div></div></div>		1168
After	<div><div></div></div>		39.73	After	<div><div></div></div>		15.11	After	<div><div></div></div>		1198
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
After	<div><div></div></div>		141.2	After	<div><div></div></div>		9.136	After	<div><div></div></div>		26.63
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								
After	<div><div></div></div>		12.67								
10.00 (Minimum)			45.00 (Nominal)								




Master: 2–May–2021 10:04

Before: 13–Jun–2021 9:44




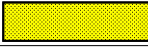

After: 2–May–2021 10:16

**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	
After		39.79	After		15.32	After		1121	
	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	
After		142.5	After		10.27	After		27.24	
	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							
After		12.95							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 2-May-2021 10:04			Before: 13-Jun-2021 9:44			After: 2-May-2021 10:16			

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9728	
Before		0.9527	
After		0.9769	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 2-May-2021 10:04			
Before: 13-Jun-2021 9:44			
After: 2-May-2021 10:16			

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>		41.00	Master	<div><div></div></div>		209.6	Master	<div><div></div></div>		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	<div><div></div></div>		17.82	Master	<div><div></div></div>		1.015				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 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: 2-May-2021 10:00											

**DTS Telemetry Tool / Equipment Identification**

Primary Equipment:

DTC-H Auxiliary Cartridge

DTC-H A

8709

DTC-H Auxiliary Cartridge  
DTC-H Telemetry Cartridge

DTCH - A 8799  
DTCH - A 8799

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC 9842

Company: **International Ocean Discovery Program**

**Schlumberger**

Well: **Expedition 395C, Site U1562B**

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

Rig: **JOIDES Resolution**

Ocean: **Atlantic**

Formation Micro Scanner (FMS)

Dipole Shear Sonic (DSI)

Natural Gamma / (HNGS)