Schlumberger

Company: **International Ocean Discovery Program**

Well: **Expedition 392, Site U1580A**
Field: **Agulhas Plateau Cretaceous Climate**
Rig: **JOIDES Resolution** Ocean: **Southern**

Rig: JOIDES Resolution
Field: Agulhas Plateau Cretaceous Clim
Location: Latitude: S 40.78589 Deg
Well: Expedition 392, Site U1580A
Company: International Ocean Discovery Pr

Formation Micro Scanner (FMS)
Dipole Shear Sonic (DSI)
Natural Gamma /(HNGS)

LOCATION

Latitude: S 40.78589 Deg
Longitude:E 26.606895 Deg

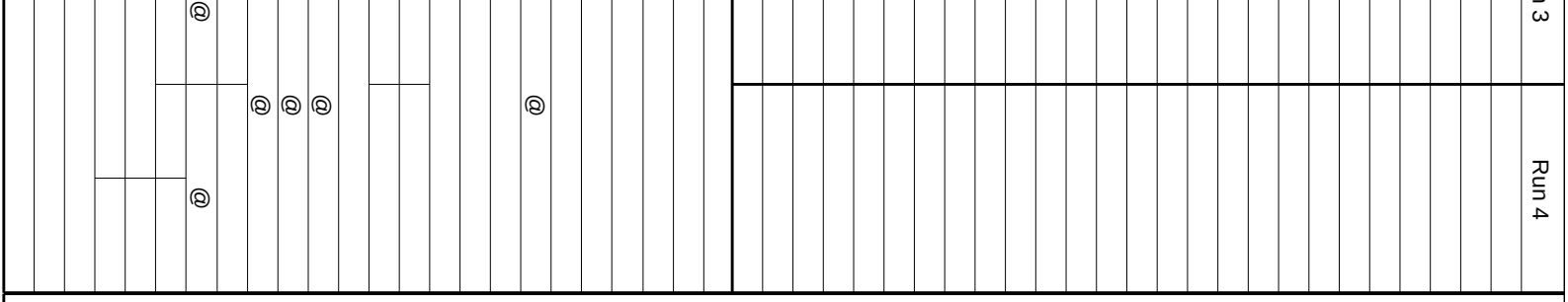
Elev.: K.B. 0.00 m
G.L. −2571.50 m
D.F. 0.00 m

Permanent Datum: Sea Floor — Elev.: −2571.50 m
Log Measured From: Rig Floor — 2571.50 m above Perm. Datum
Drilling Measured From: Rig Floor

API Serial No.	S*40.78589	E*26.606895	

	Run 1	Run 2	Run
Logging Date	5−Mar−2022		
Run Number	1		
Depth Driller	3105.4 m		
Schlumberger Depth	3093 m		
Bottom Log Interval	3093 m		
Top Log Interval	2570 m		
Casing Driller Size @ Depth	5.500 in @ 2574.7 m	@	@
Casing Schlumberger	2569 m		
Bit Size	9.875 in		
Type Fluid In Hole	Seawater		
MUD Density / Viscosity	1.03 g/cm3		
MUD Fluid Loss / PH		8.07	
MUD 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	0.301 @ 11	@ 11	@ @
Maximum Recorded Temperatures	11 degC		
Circulation Stopped / Time	5−Mar−2022	9:00	
Logger On Bottom / Time	5−Mar−2022	4:00	
Unit Number / Location	627314 Larose, LA		
Recorded By	K. Swain		
Witnessed By	Z. Mateo		

	Run 1	Run 2	Run
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			
MUD Fluid Loss / PH			
MUD 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			



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OTHER SERVICES1	OTHER SERVICES2
OS1: MSS/HRLA/HLDS/APS	OS1:
OS2: UBI	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole drilled with RCB BHA at 9 7/8" BS	
Drill pipe set at 2652.6 mbrf.	
SAMX mode crossed dipole added to SAM1,2 dip[oles and SAM4 P&S.	
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.	
Reprocessed in field for P&S and dipole shear but further processing may improve	
DSI data.	

RUN 1	RUN 2
SERVICE ORDER #:	SERVICE ORDER #:
PROGRAM VERSION: 19C0−187	PROGRAM VERSION:
FLUID LEVEL:	FLUID LEVEL:

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

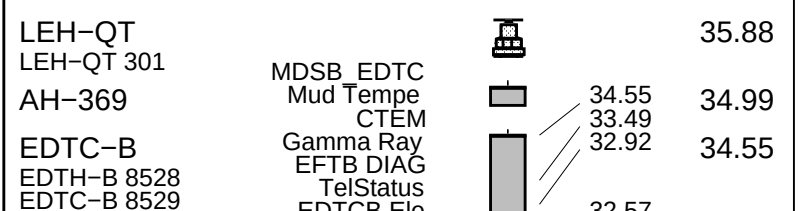
EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

GSR−U 6098
WITM (EDTS)−A 1

DOWNHOLE EQUIPMENT



RUN 2

EDTG−A/B 77693

HNGS−BA
HNGS−BA 99
HNSH−BA 102

Upper_1 31.87
Lower_2 31.66
32.57

HNGC−B
HNGH−A 3

HNGC Stat 29.54
30.07

AH−MCD
AH−MCD 82

29.01

DSST−B
SPAC−B 8194
ECH−SD 8183
SMDR−BD 8232
SSIJ−BA 8204
SMDX−AA 8194

26.73

PWF 11.18

AH−MCD1
AH−MCD1 1

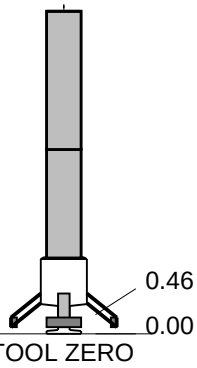
11.18

DTA−A
ECH−KE

8.90

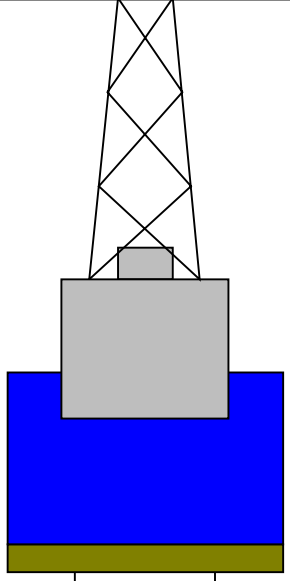
MEST−B
MEAH−B 769
MEAC−A 804
MEPH−A 701
GPIC−AC 840
MEPC−AB 806
MEDS−B 724

7.68



MAXIMUM STRING DIAMETER 3.75 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

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

Kelly Bushing Elevation		0				
Derrick Floor Elevation		0				
Mean Sea Level		11				
				4.1		
				2571.5	4.1	Sea Floor
				2652.6	9.875	Open Hole
				3105.4		Total Depth

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP		PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

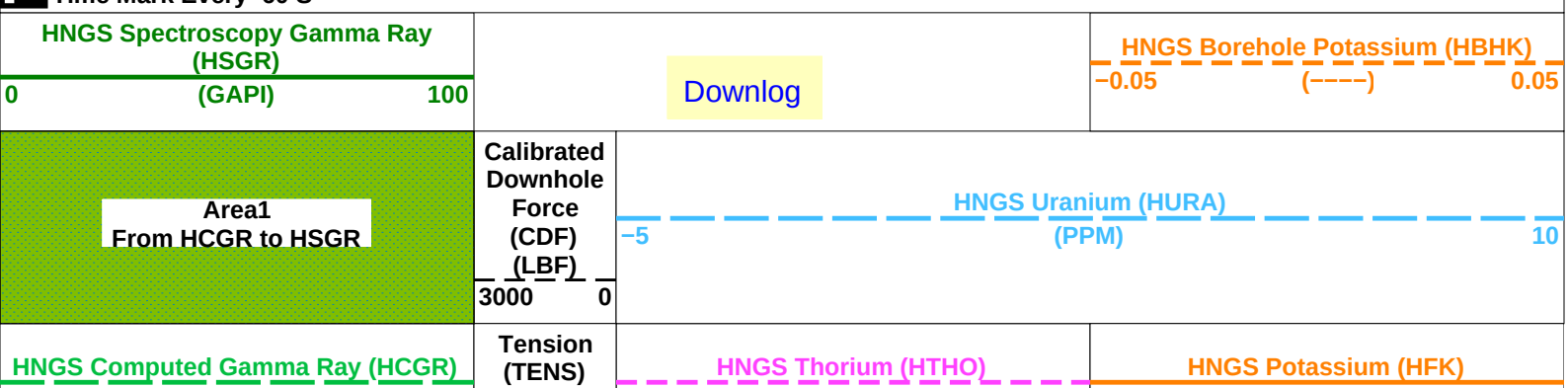
DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23	3057.9 M	2528.3 M

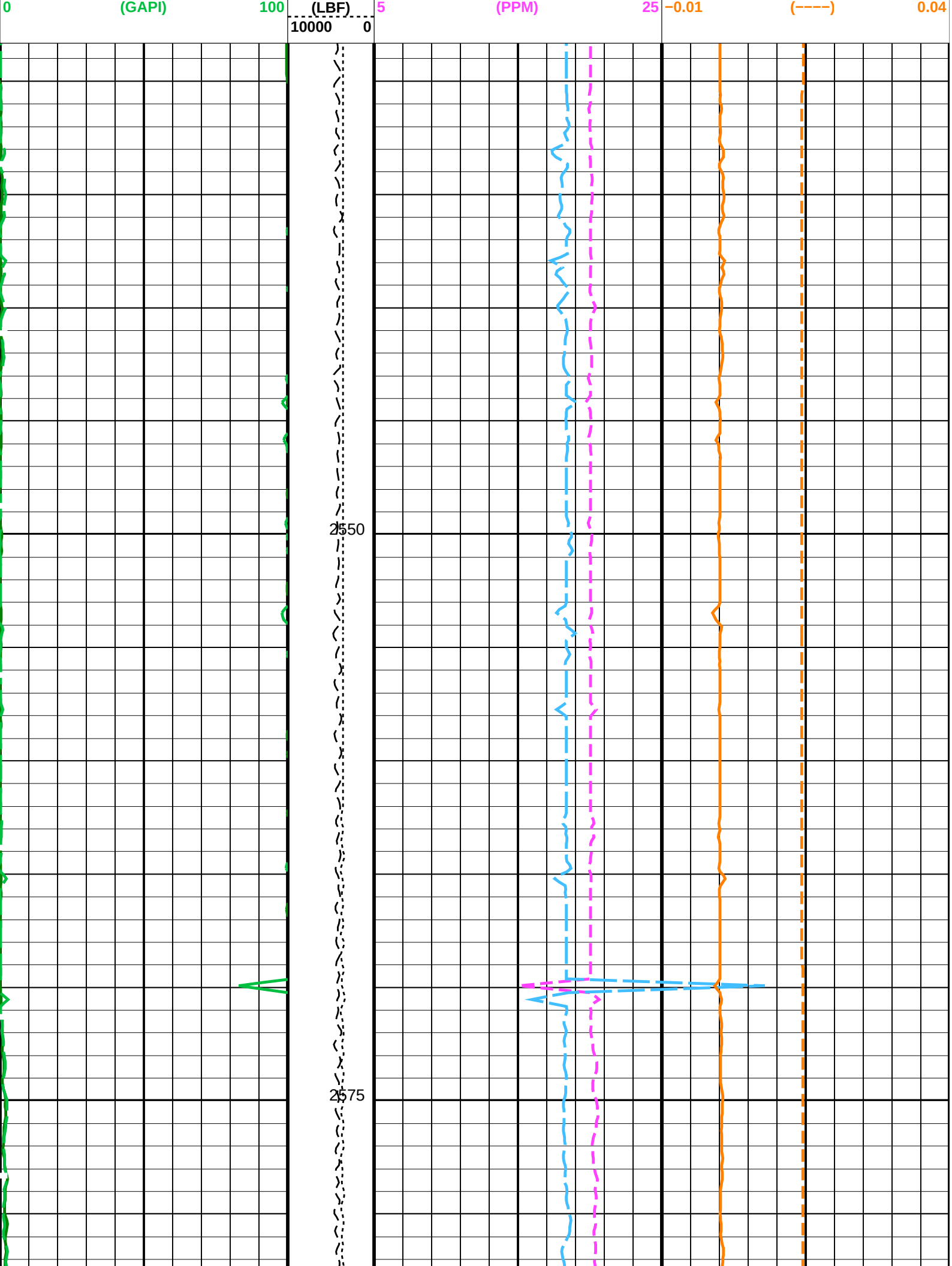
OP System Version: 19C0−187

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

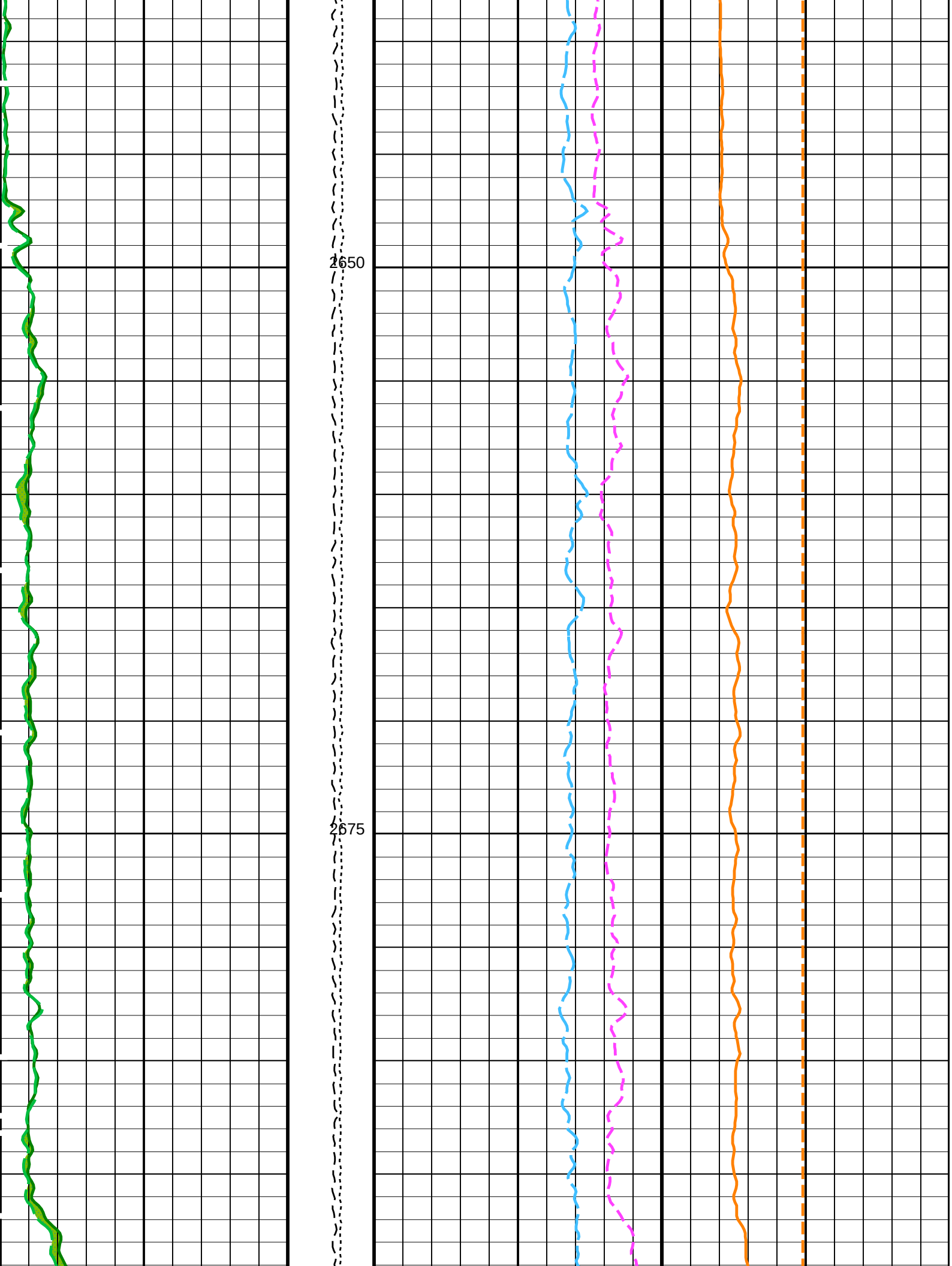
PIP SUMMARY

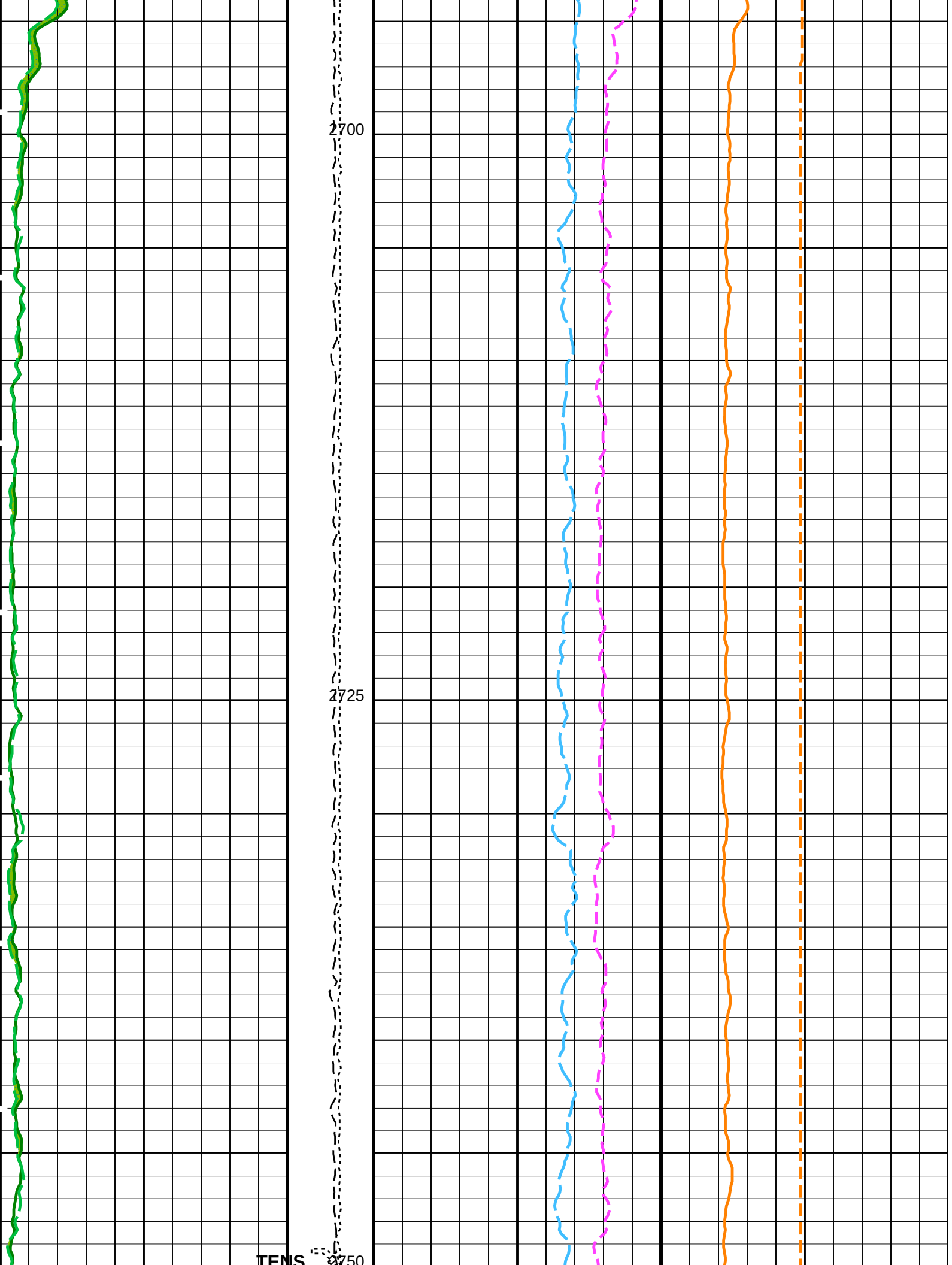
Time Mark Every 60 S

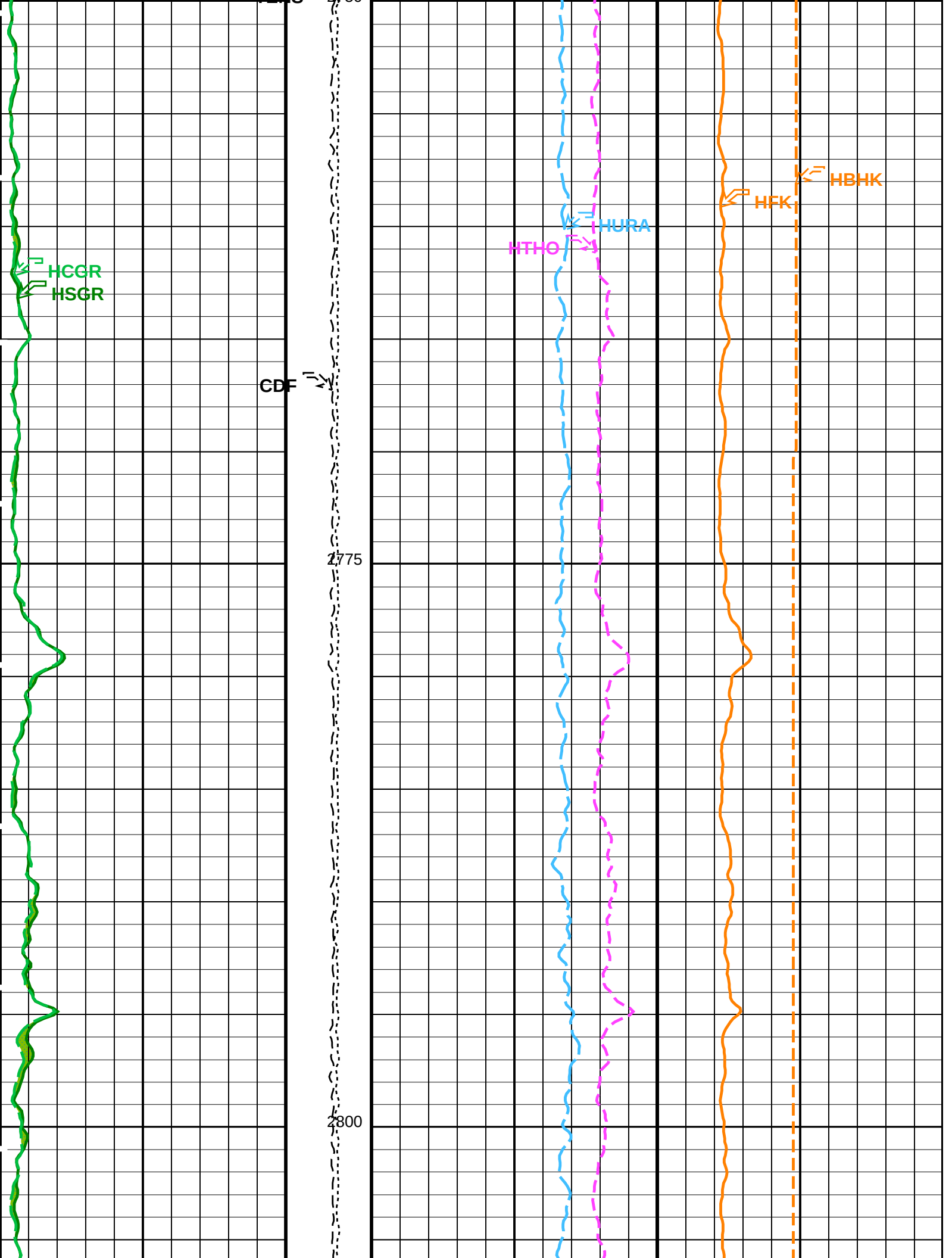


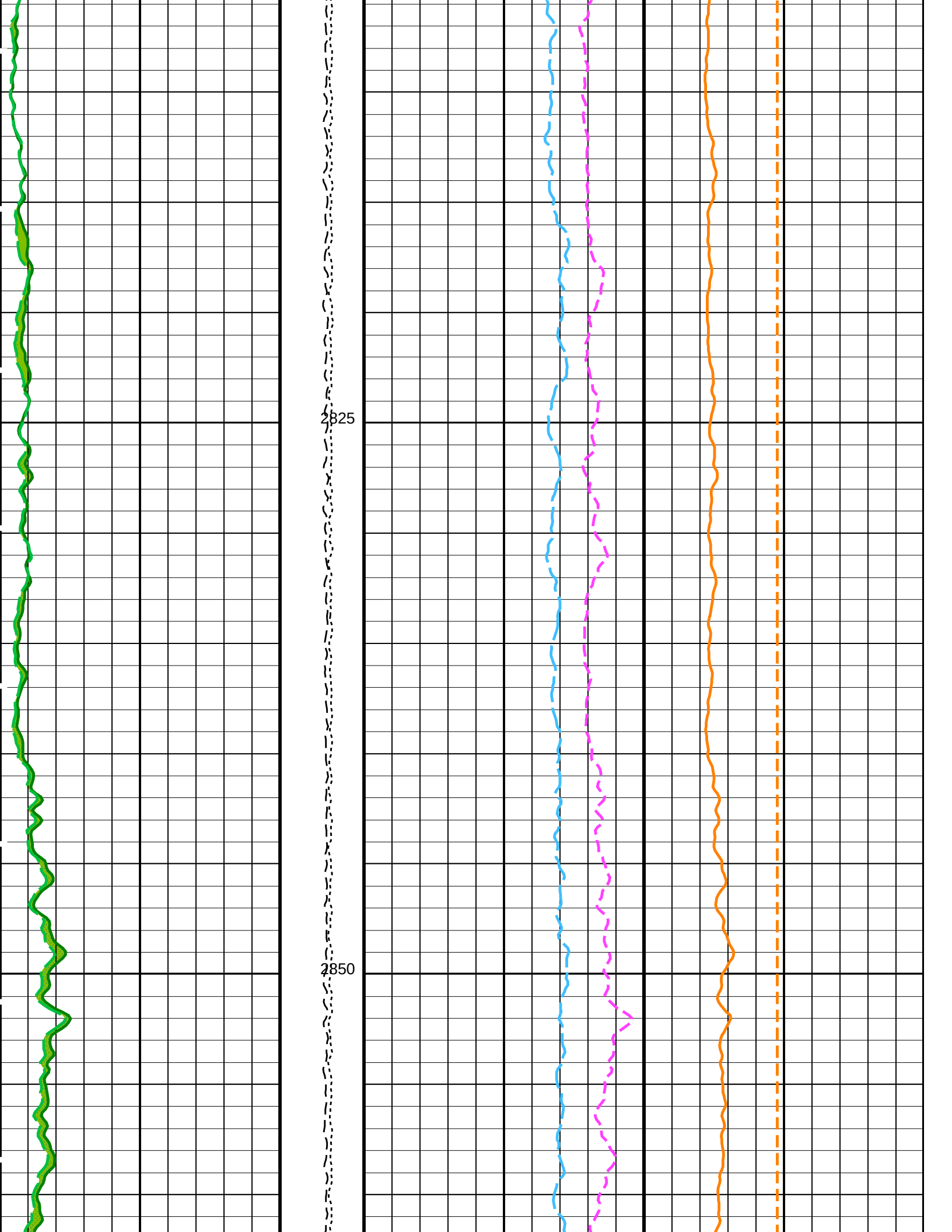

0
(GAPI)
100
(LBF)
10000
0
5
(PPM)
25
−0.01
(−−−−)
0.04
2550
2575

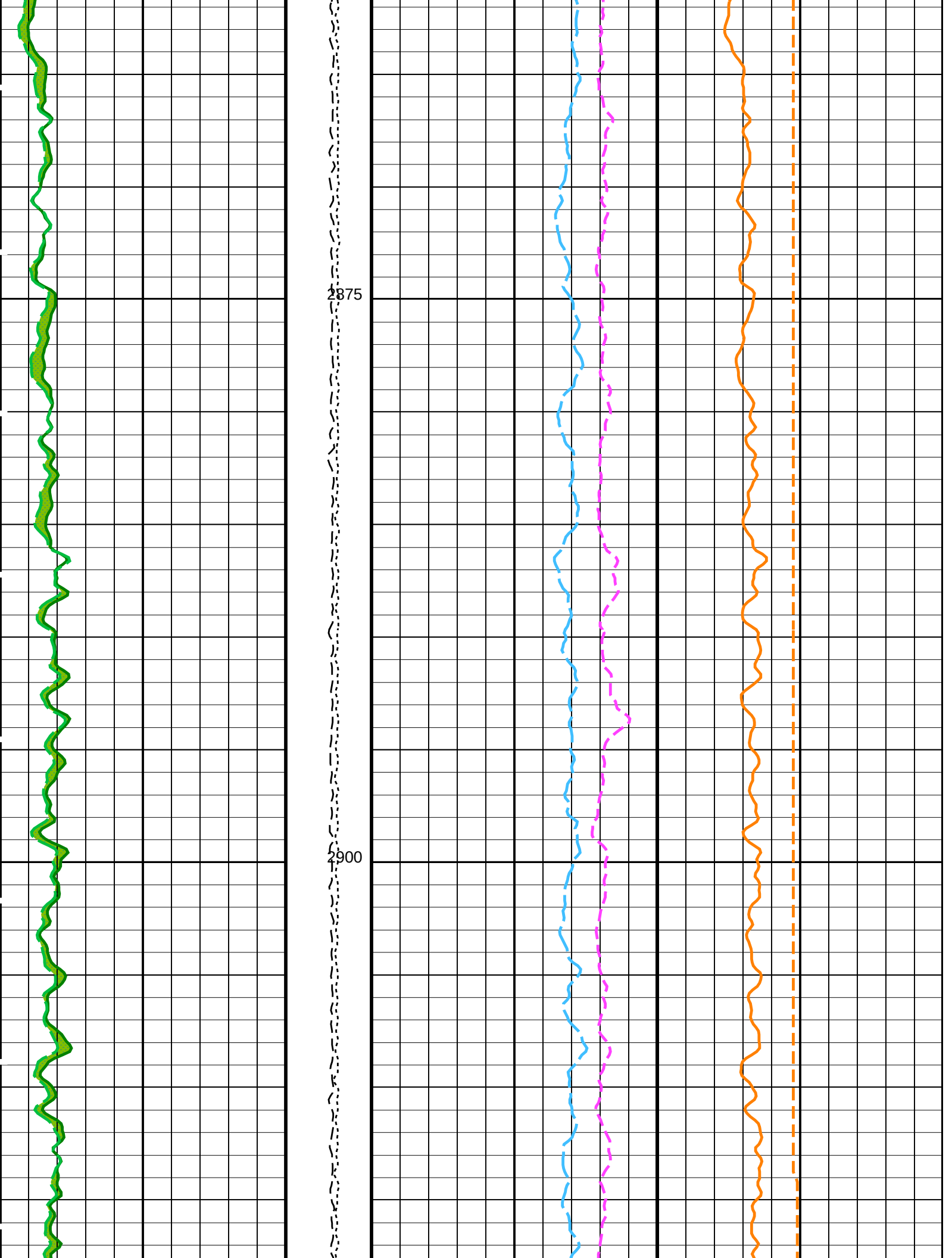

2600
2625

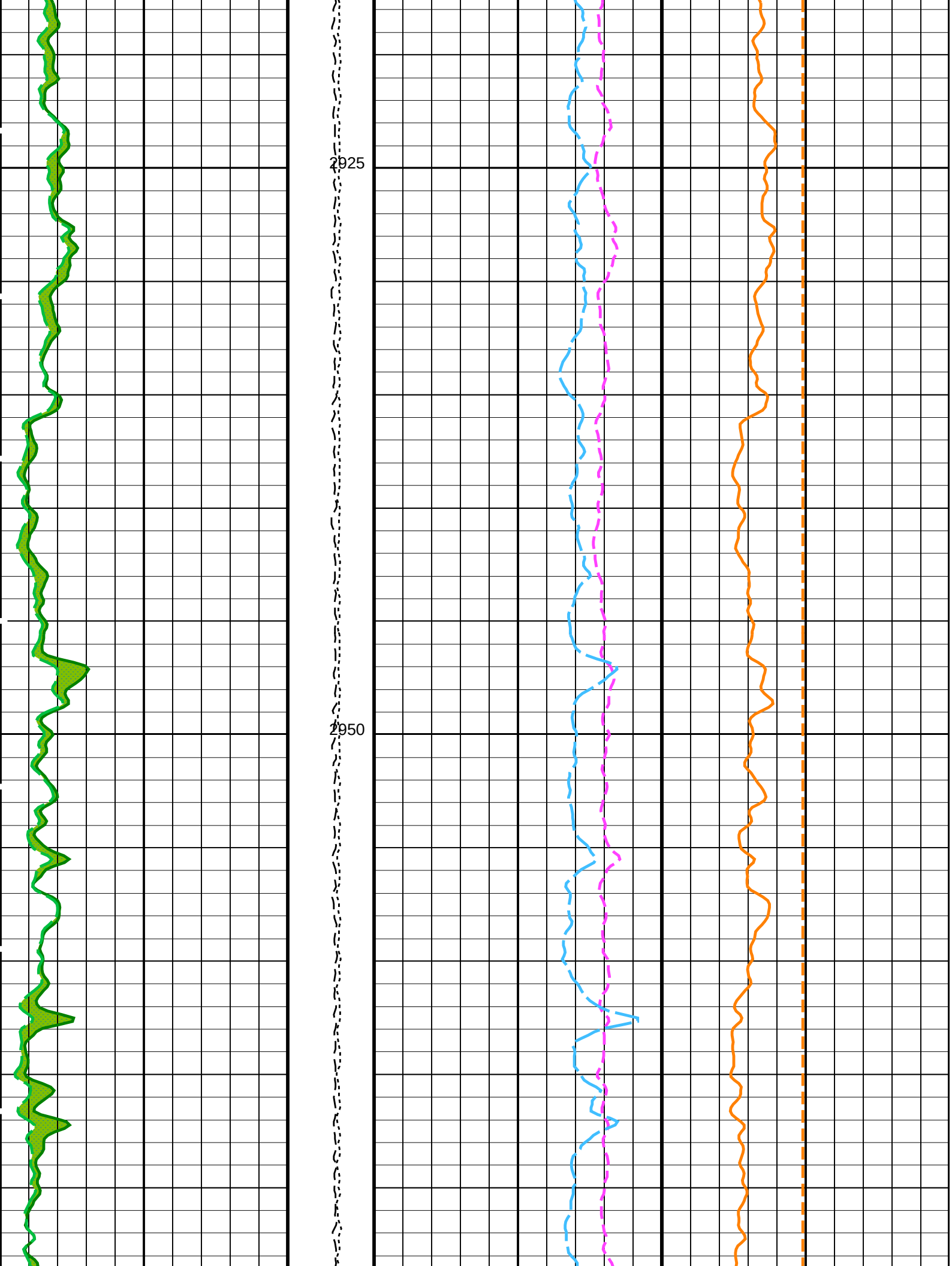

2650
2675

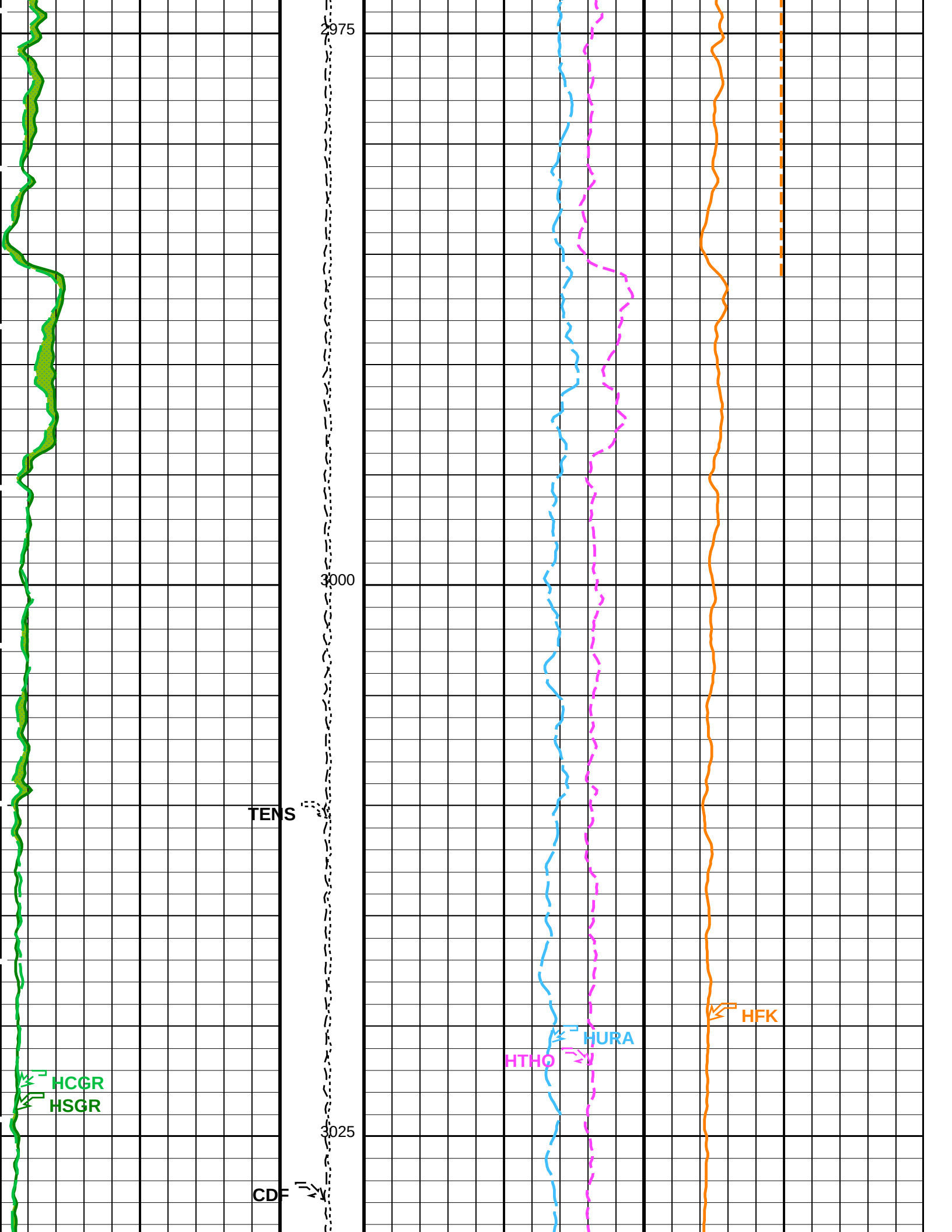

2700
2725
TENS

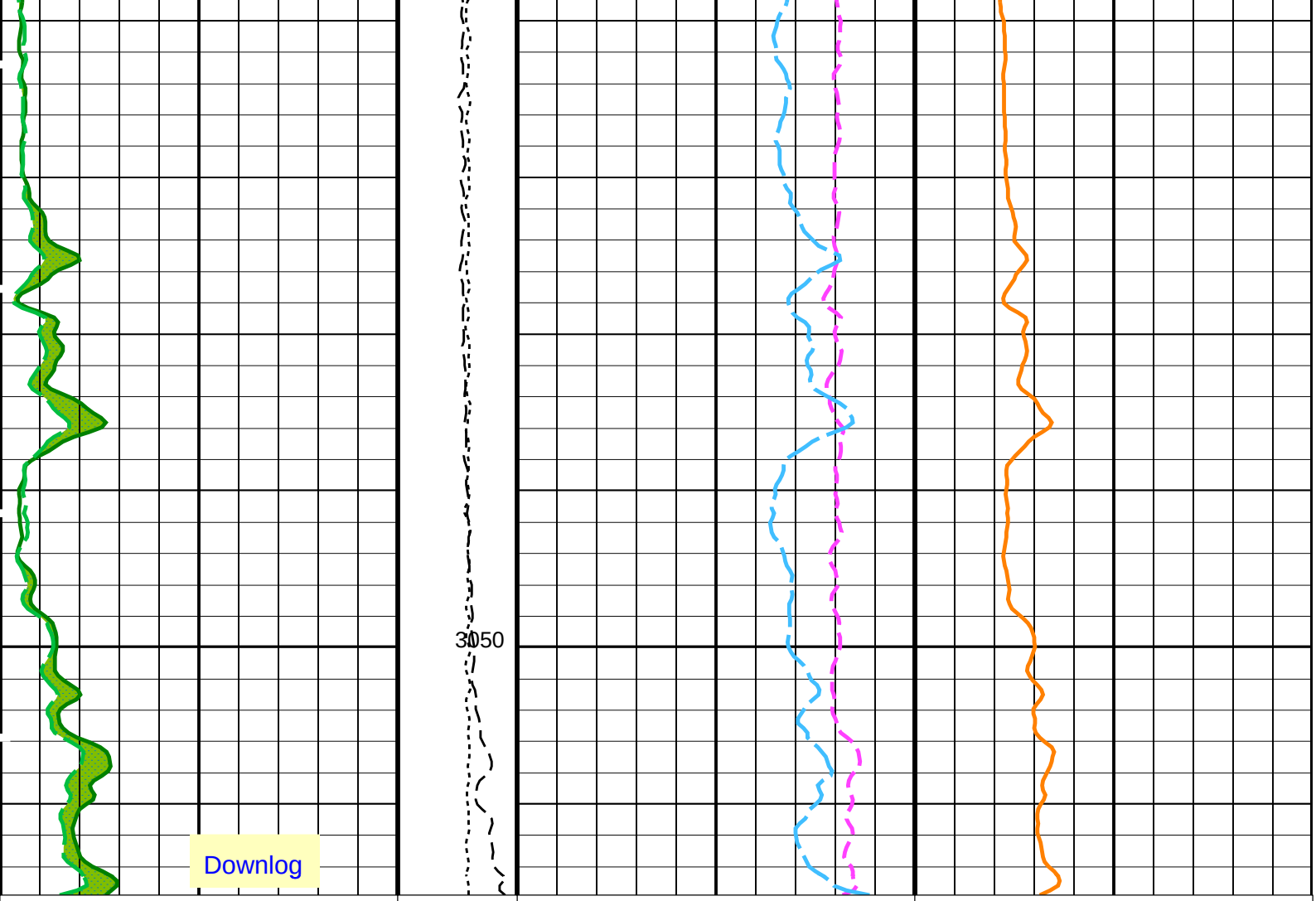

HCGR
HSGR
CDF
HTHO
HURA
HFK
HBHK
2775
2800


2825
2850


2875
2900


2925
2950


2975
3000
3025
TENS
CDF
HCGR
HSGR
HTHO
HURA
HFK



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

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
5 (PPM) 25

HNGS Potassium (HFK)
−0.01 (−−−−) 0.04

Area1
From HCGR to HSGR

Calibrated Downhole Force (CDF) (LBF)
3000 0

HNGS Uranium (HURA)
−5 (PPM) 10

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

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	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	−0.00162093	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.713604	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.83082	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09−Mar−2022 20:23

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP	PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23		

Company: International Ocean Discovery Program Well: Expedition 392, Site U1580A

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP	PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23	3057.9 M	2528.3 M

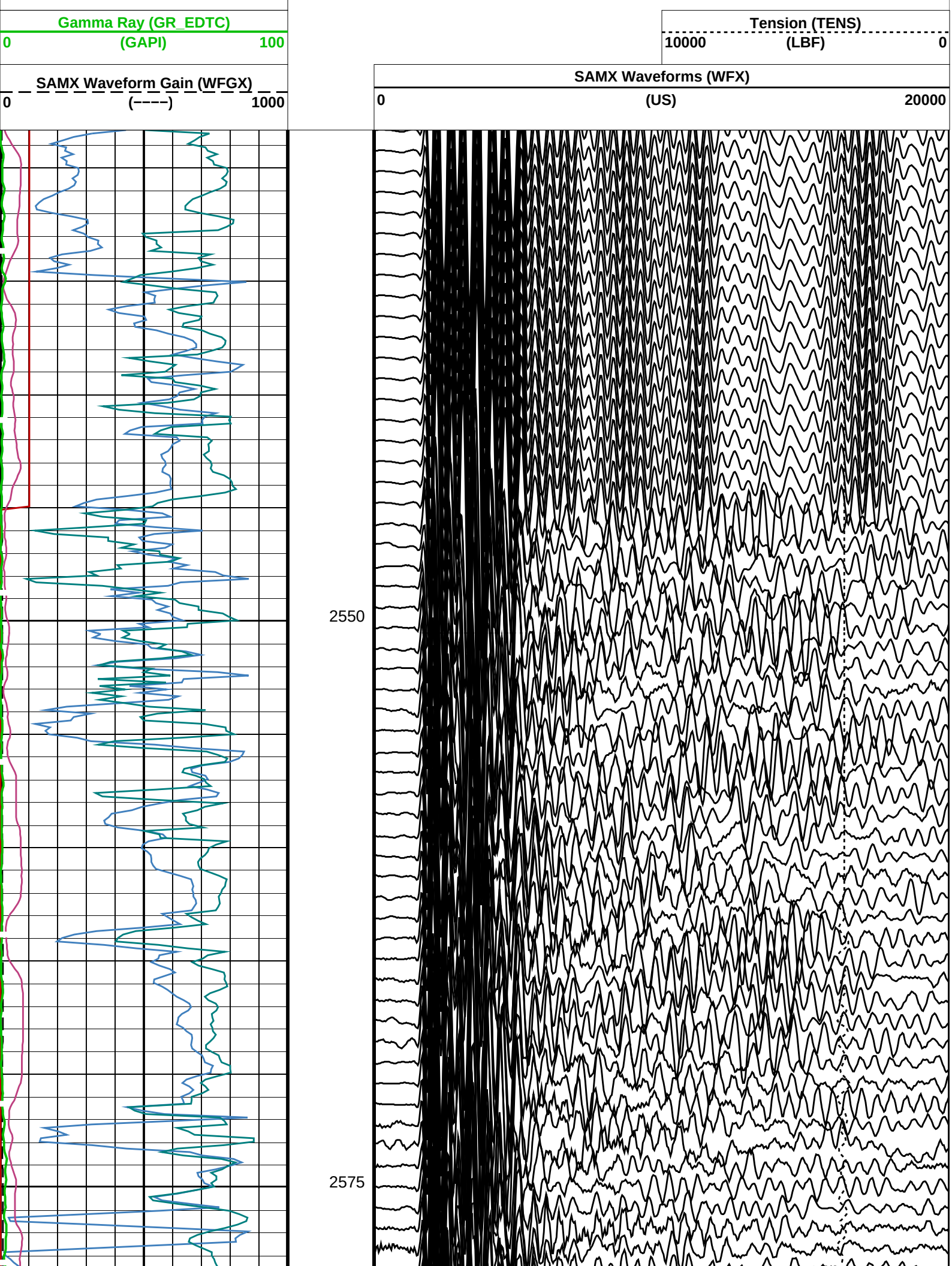
OP System Version: 19C0−187

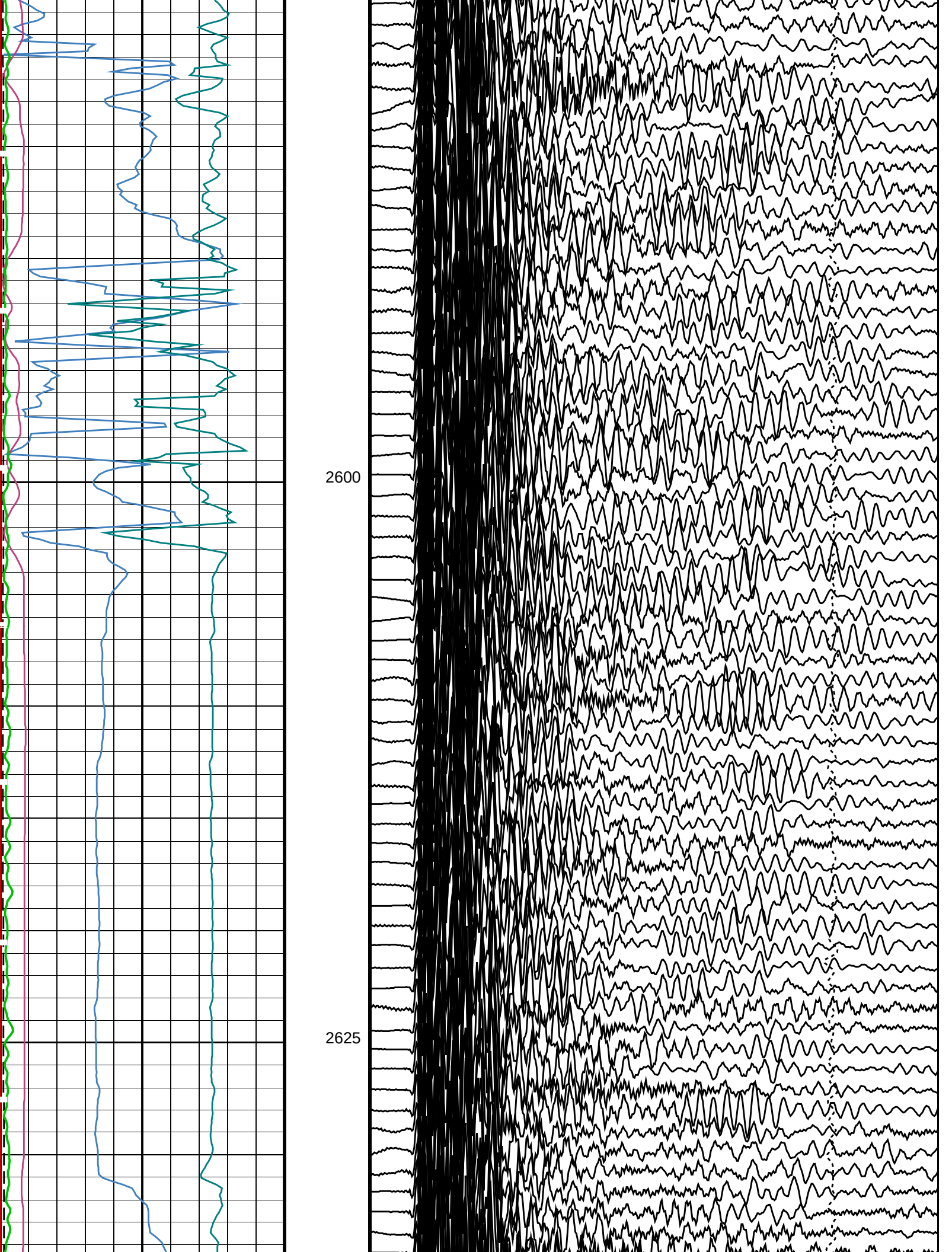
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

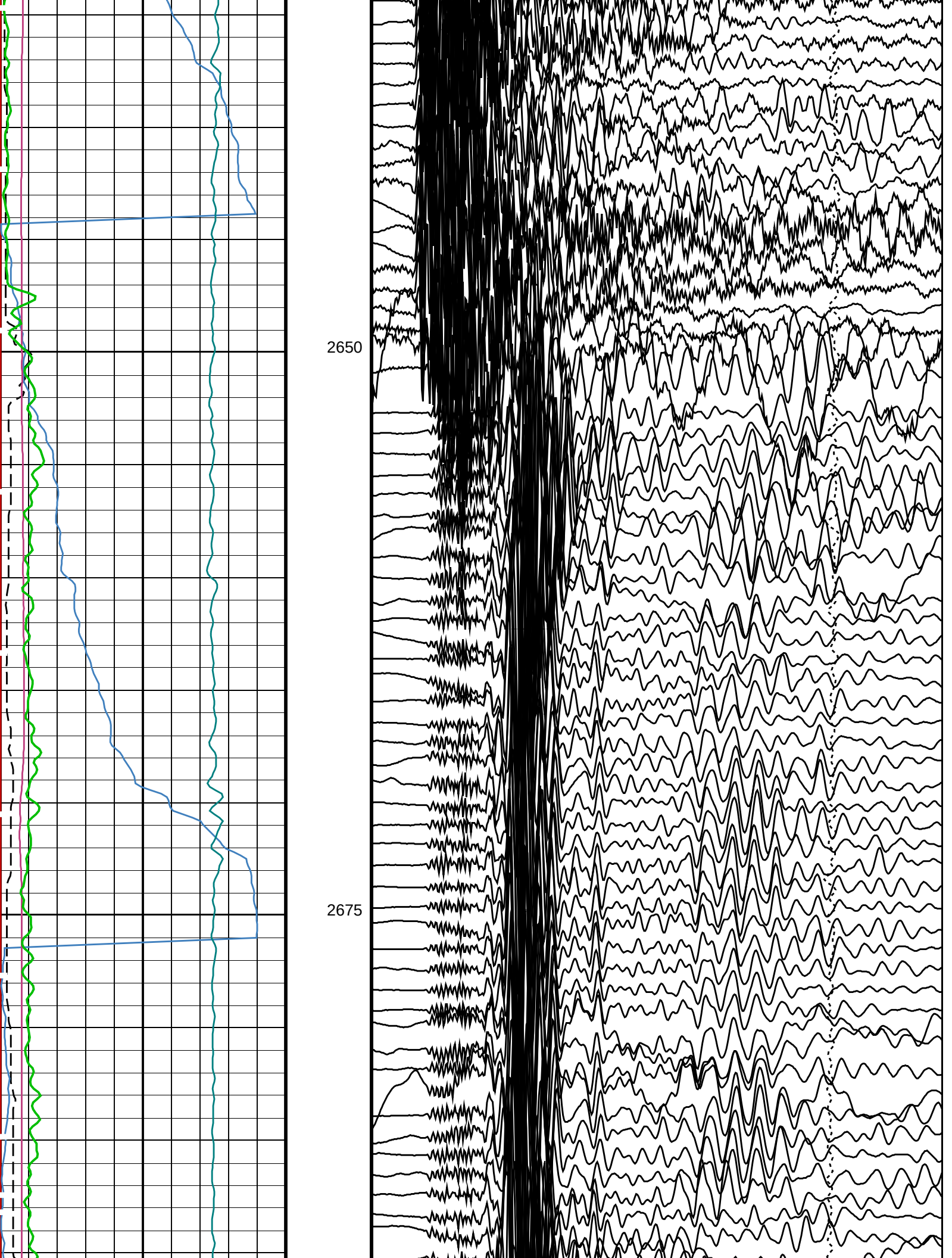
PIP SUMMARY

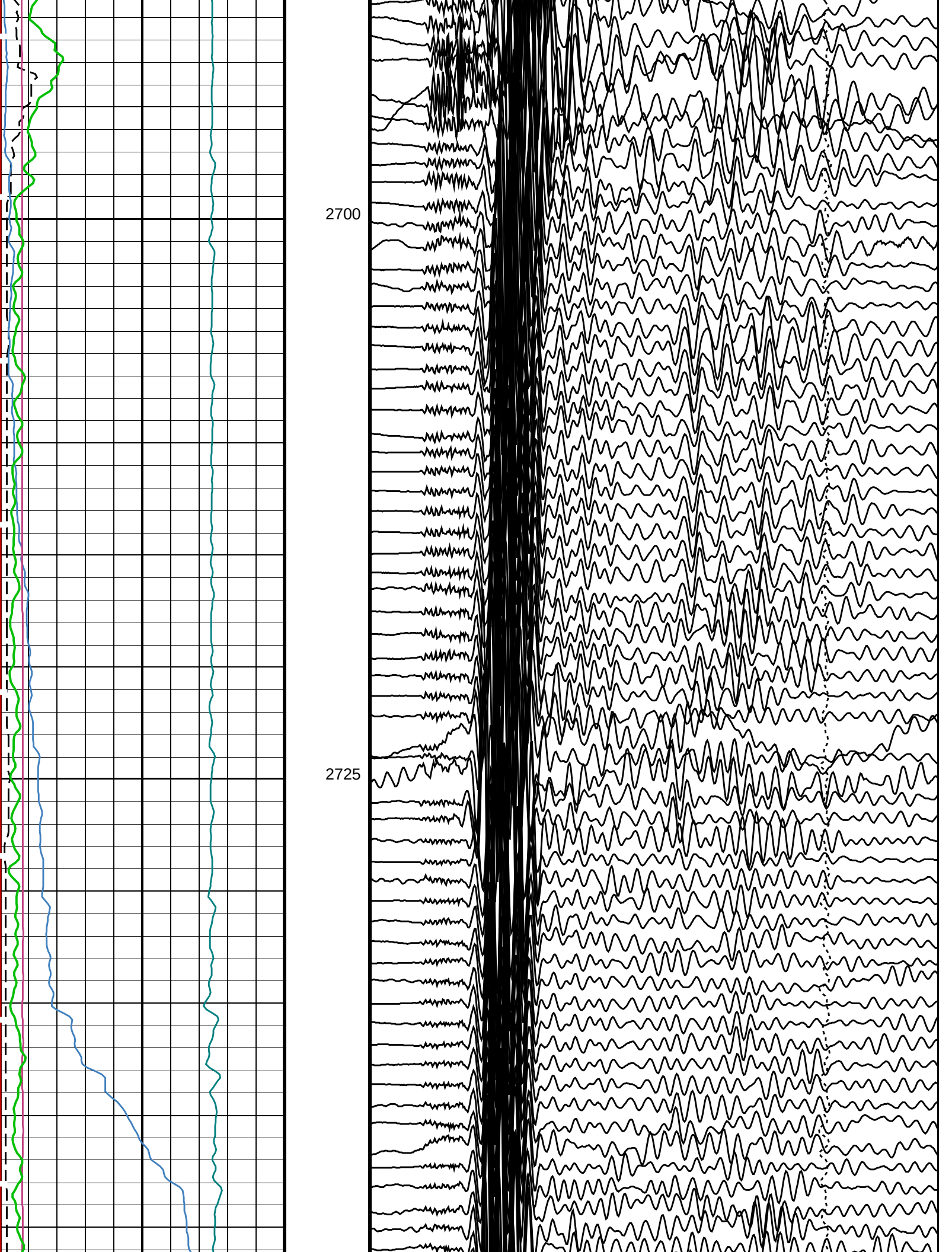
Time Mark Every 60 S

Deviation at DSST Waveform Depth (DVWD)		
0	(DEG)	100
Relative Bearing at DSST Waveform Depth (RBWD)		
0	(DEG)	400
Azimuth at DSST Waveform Depth (AZWD)		
0	(DEG)	400
Waveform Data Copy Indicator X − Expert (WCIX)		
0	(−−−−)	10


Gamma Ray (GR_EDTC)
0
(GAPI)
100
Tension (TENS)
10000
(LBF)
0
SAMX Waveform Gain (WFGX)
0
(----)
1000
SAMX Waveforms (WFX)
0
(US)
20000
2550
2575


2600
2625


2650
2675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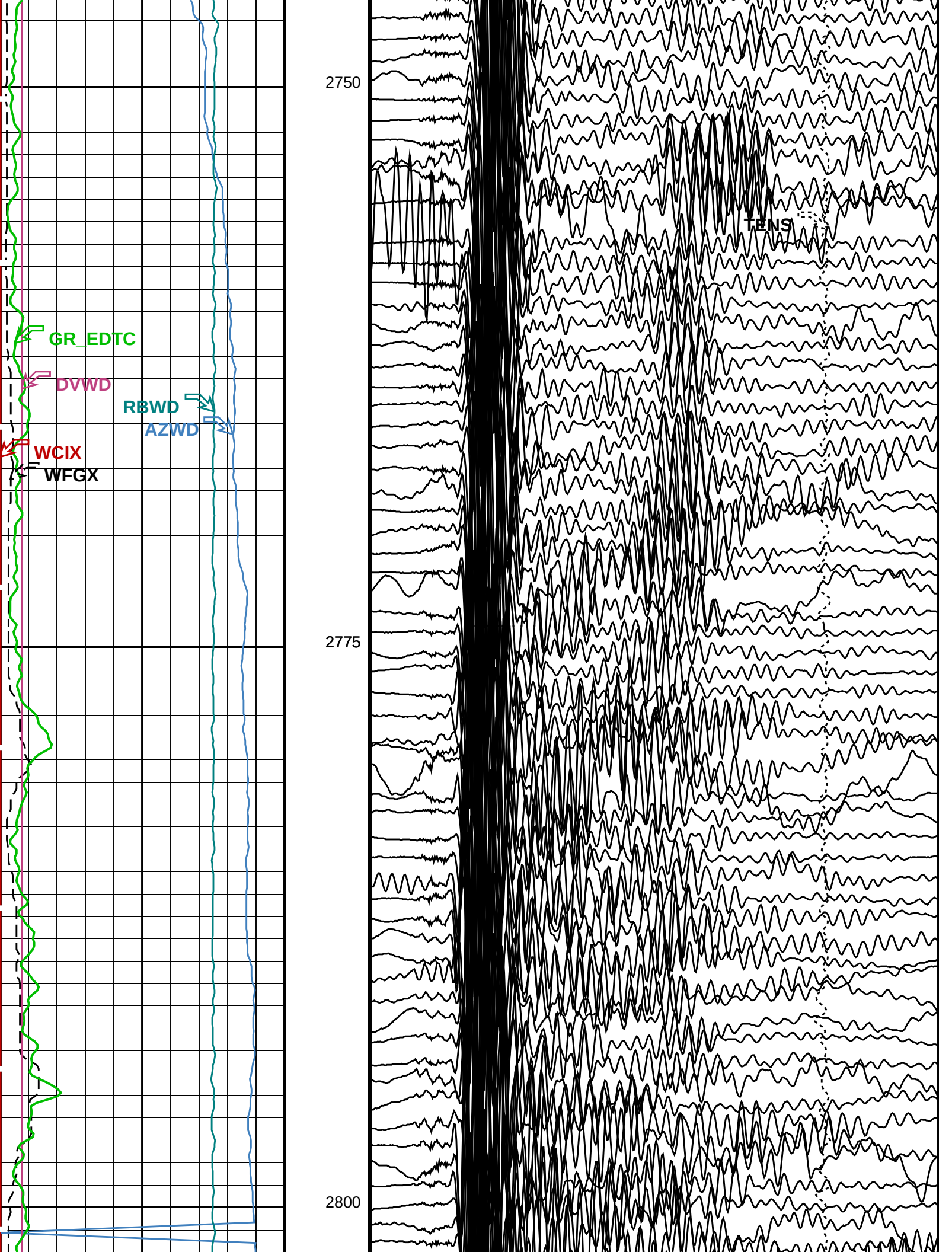
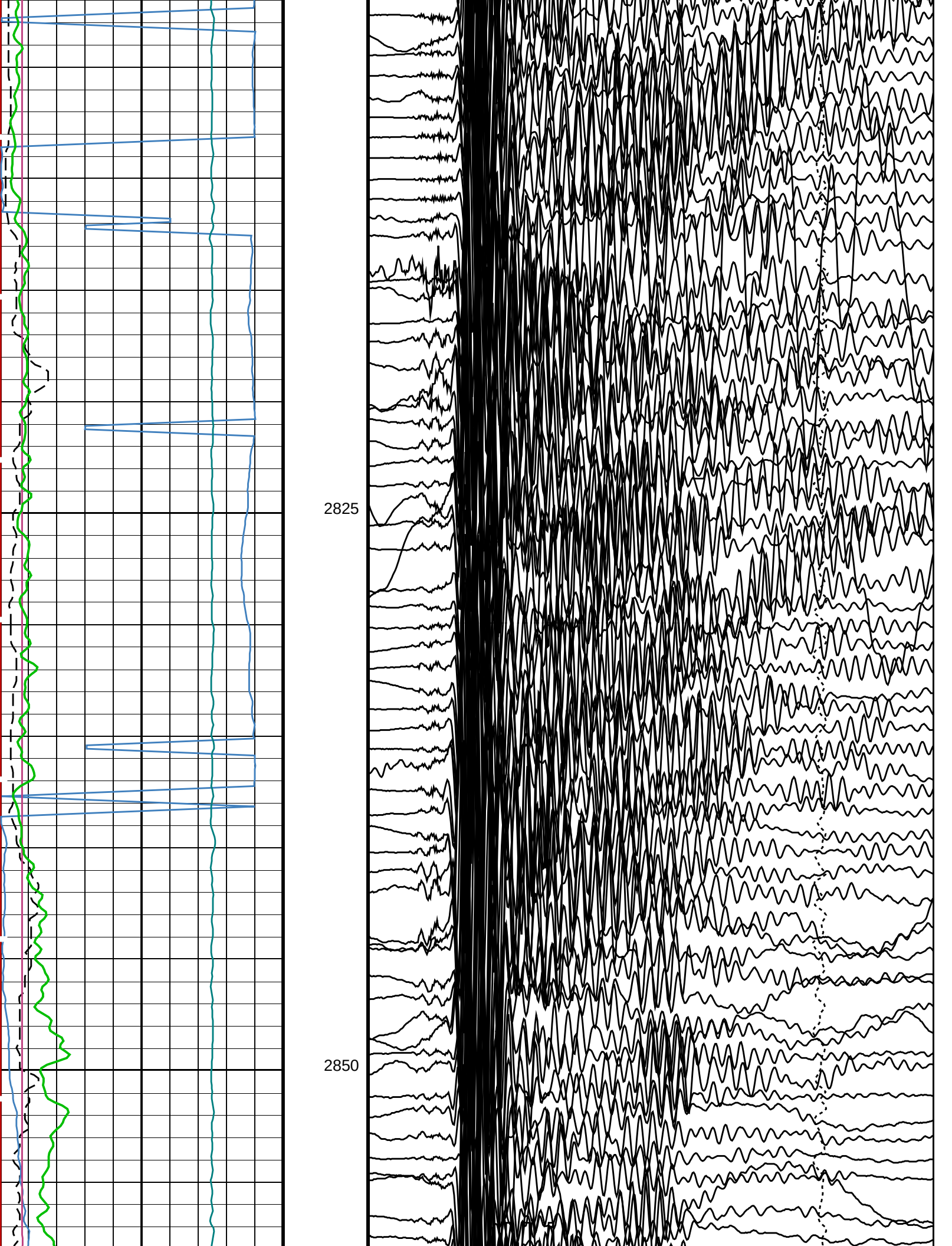

GR_EDTC
DVWD
RBWD
AZWD
WCIX
WFGX
2750
2775
2800
TENS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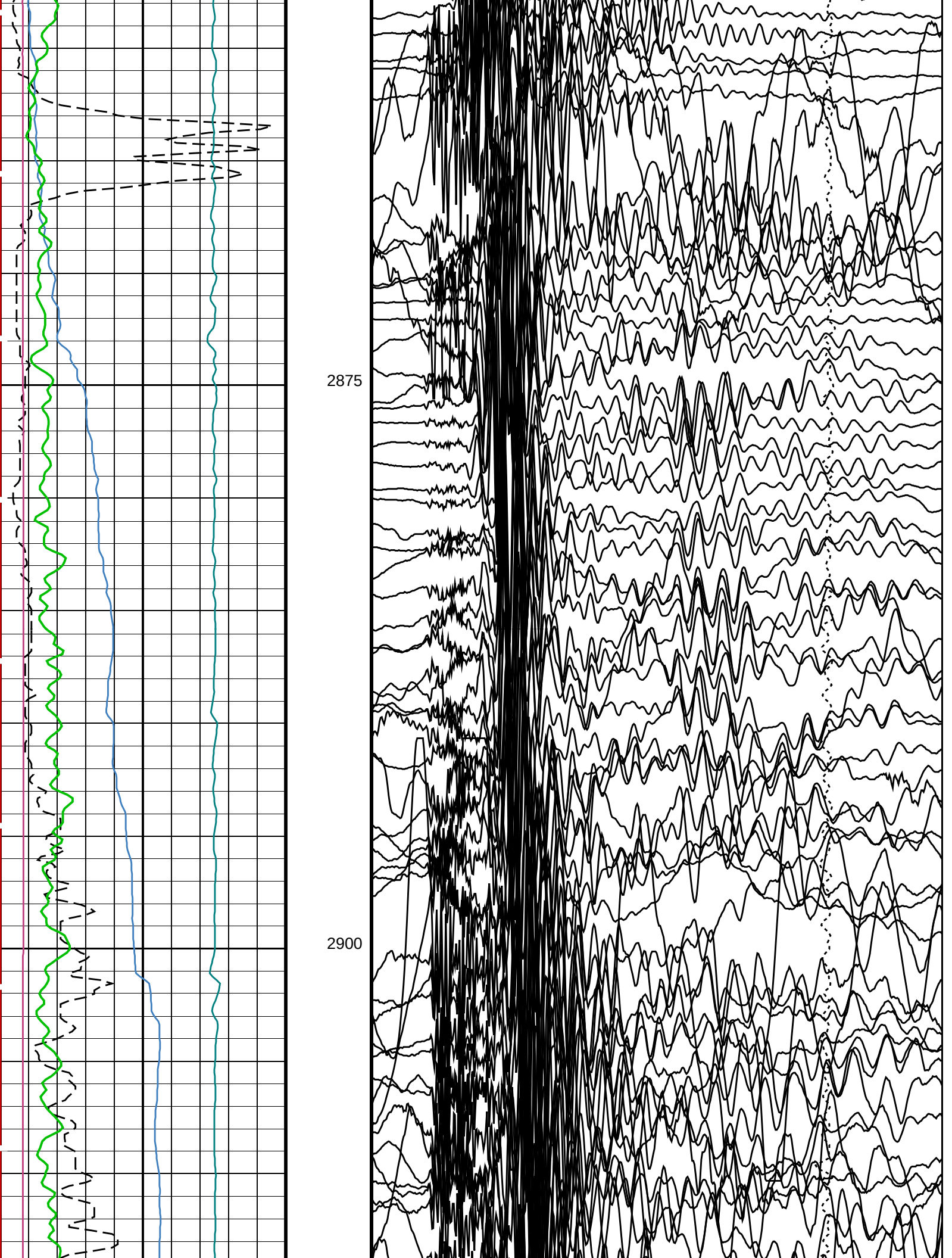
2850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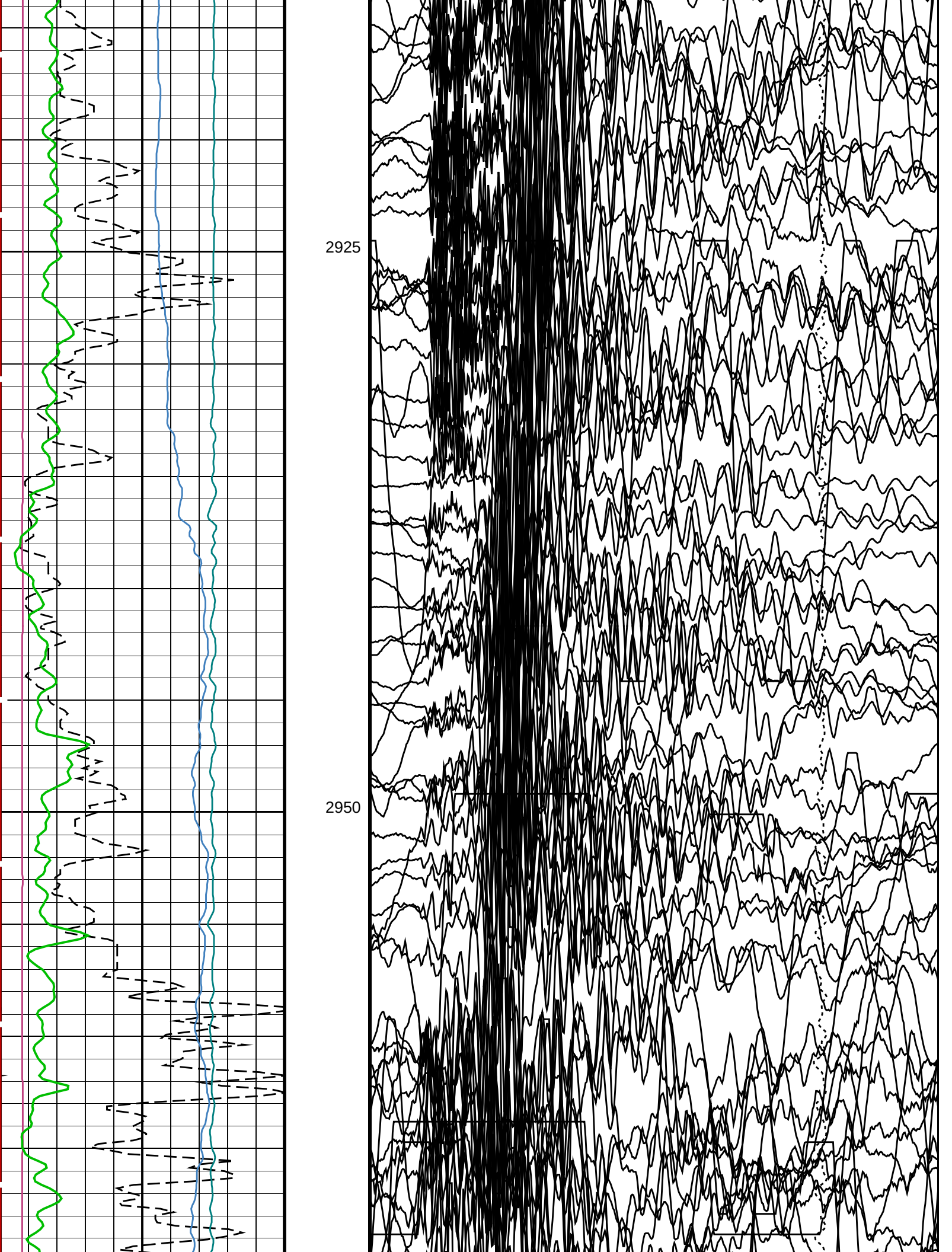
2900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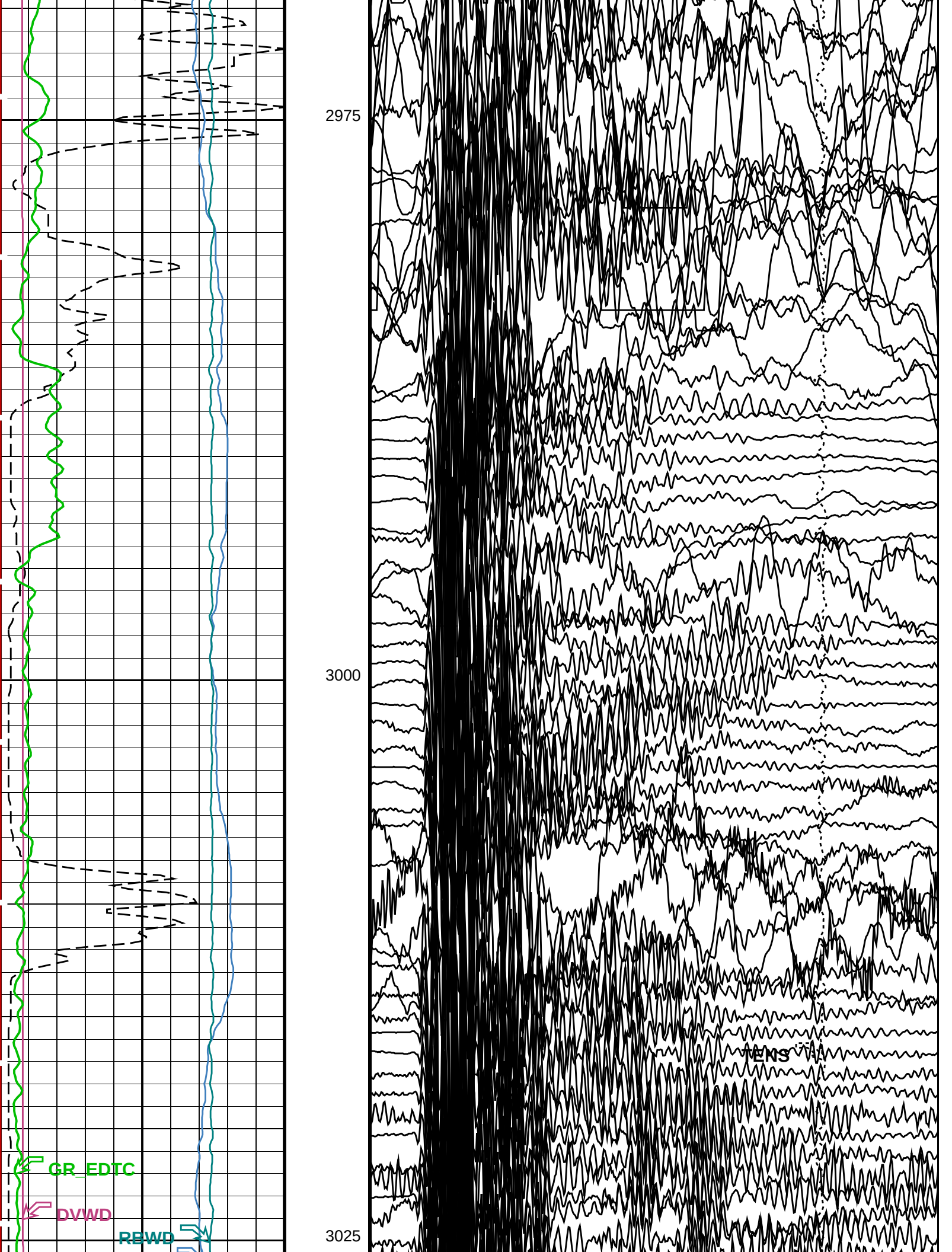
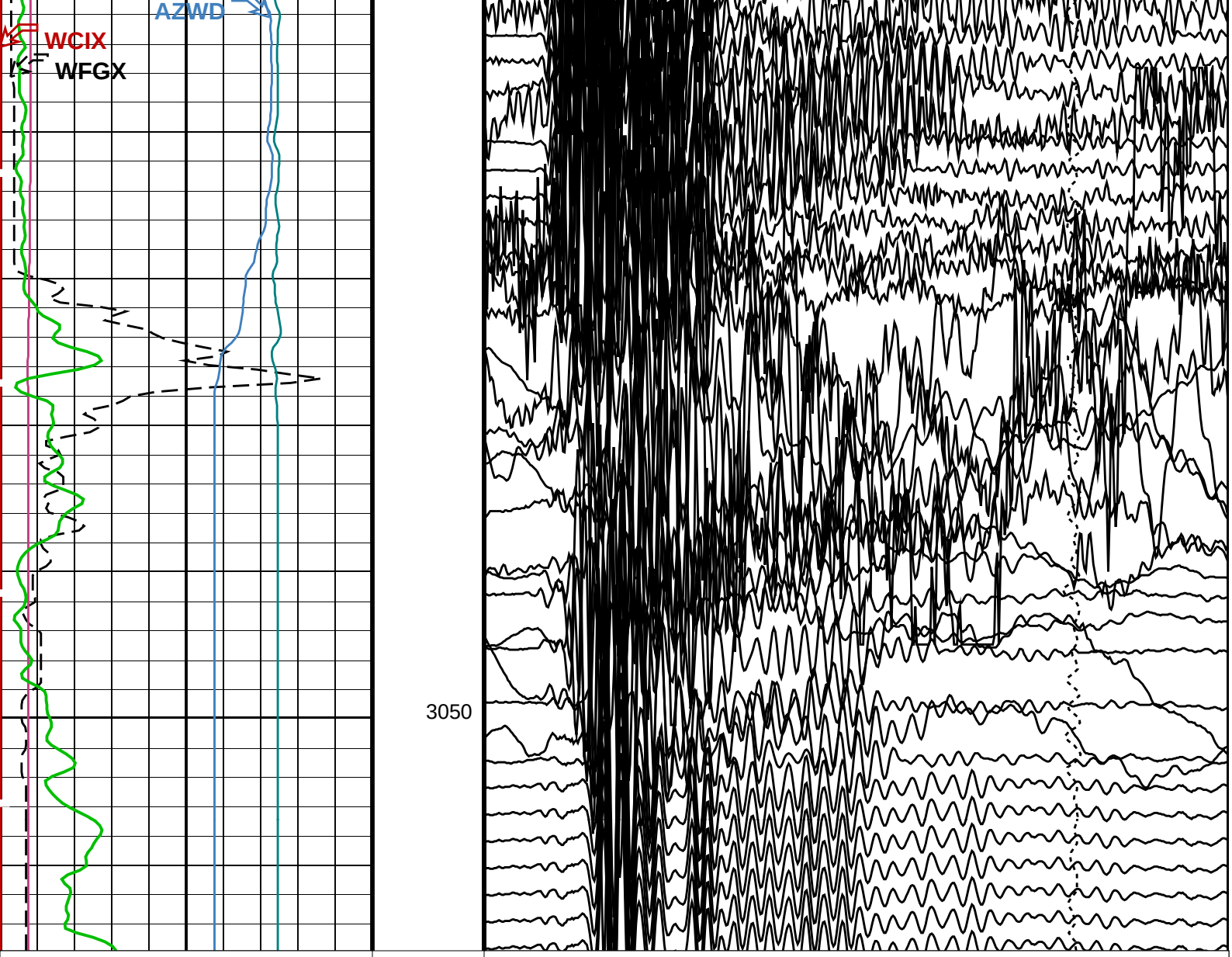
2950


2975
3000
3025
TENS
GR_EDTC
DVWD
RBWD



SAMX Waveform Gain (WFGX)
0 (----) 1000

SAMX Waveforms (WFX)
0 (US) 20000

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Tension (TENS)
10000 (LBF) 0

Downlog

Waveform Data Copy Indicator X – Expert (WCIX)
0 (----) 10

Azimuth at DSST Waveform Depth (AZWD)
0 (DEG) 400

Relative Bearing at DSST Waveform Depth (RBWD)
0 (DEG) 400

Deviation at DSST Waveform Depth (DVWD)
0 (DEG) 100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value

DSST−B: Dipole Shear Imager − B			
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MTXG	Monopole Transmitter Geometry	186	IN
NWIX	Number Waveform Items X	32	
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
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert BCR		
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFMX	Waveform Mode X	W1	
System and Miscellaneous			
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_WFX_WAVES Vertical Scale: 1:200 Graphics File Created: 09−Mar−2022 20:23

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP	PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23	

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP	PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23	3057.9 M	2528.3 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	EDTC−B	SKK−5169−EDTCB

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

Flipped Downlog

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

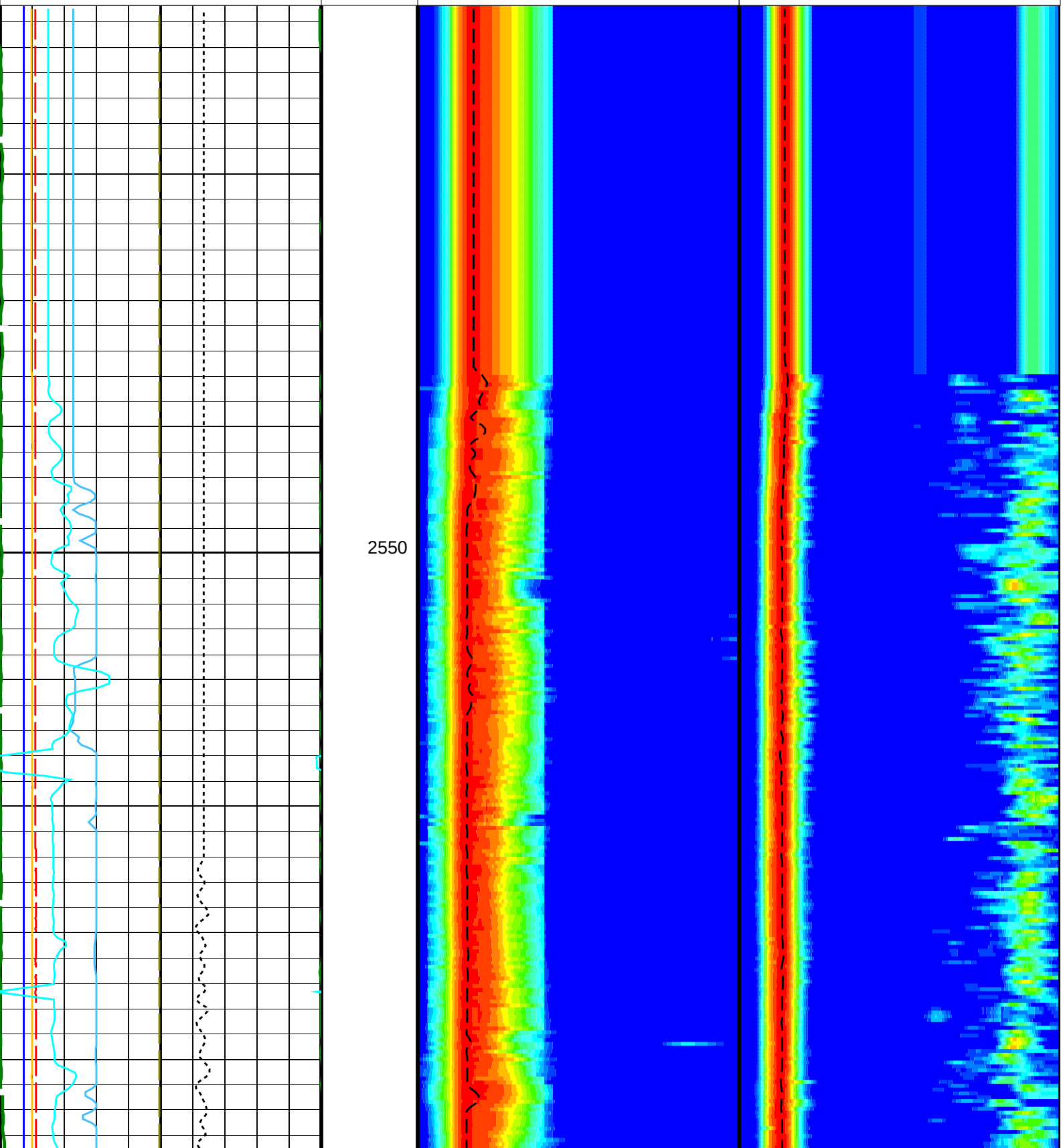
Bit Size (BS)
0 (IN) 20

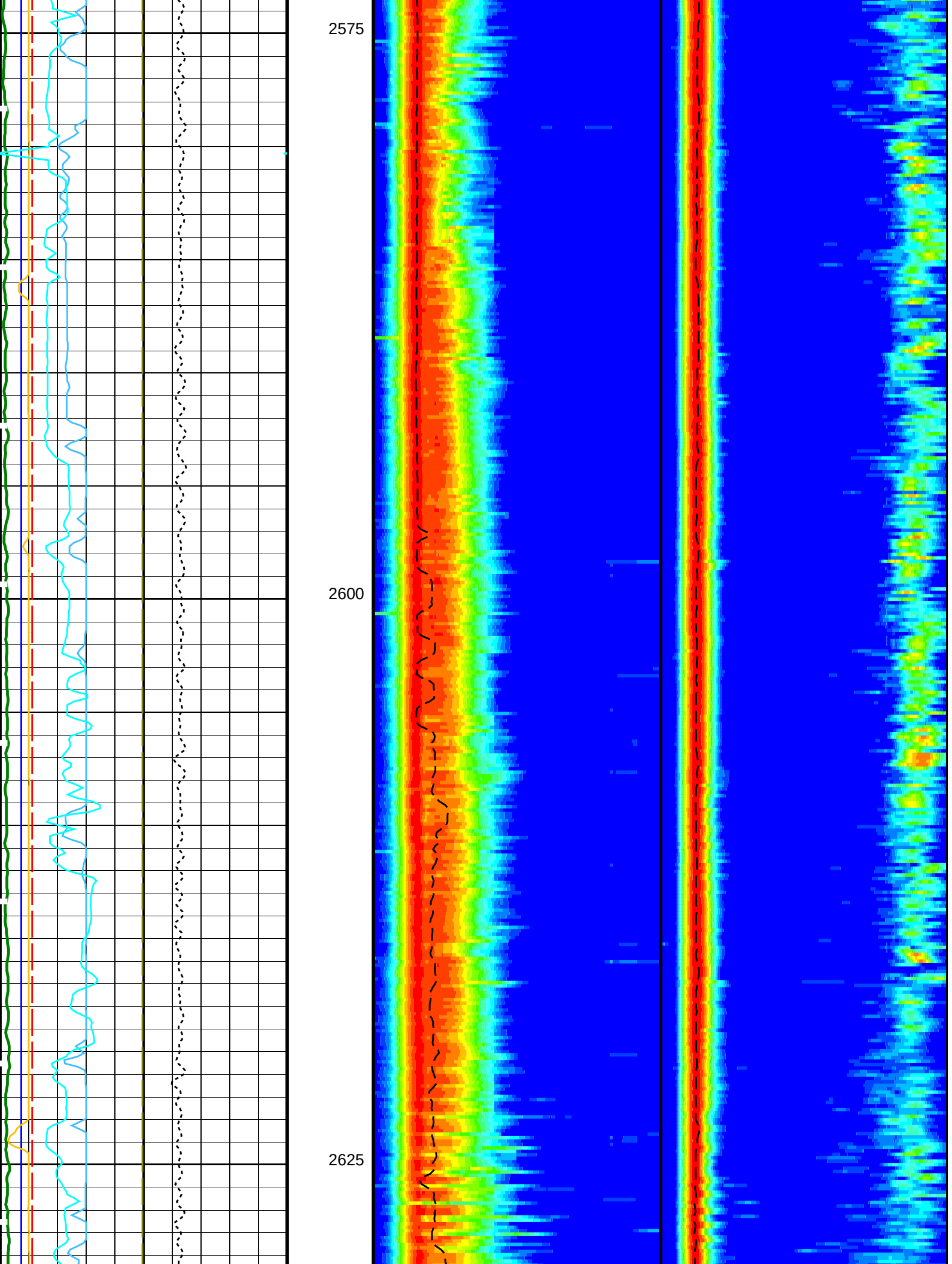
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
40 (US/F) 1400

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1400

Delta−T Shear / RA − Lower Dipole (DT1R)
40 (US/F) 1400

Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1400

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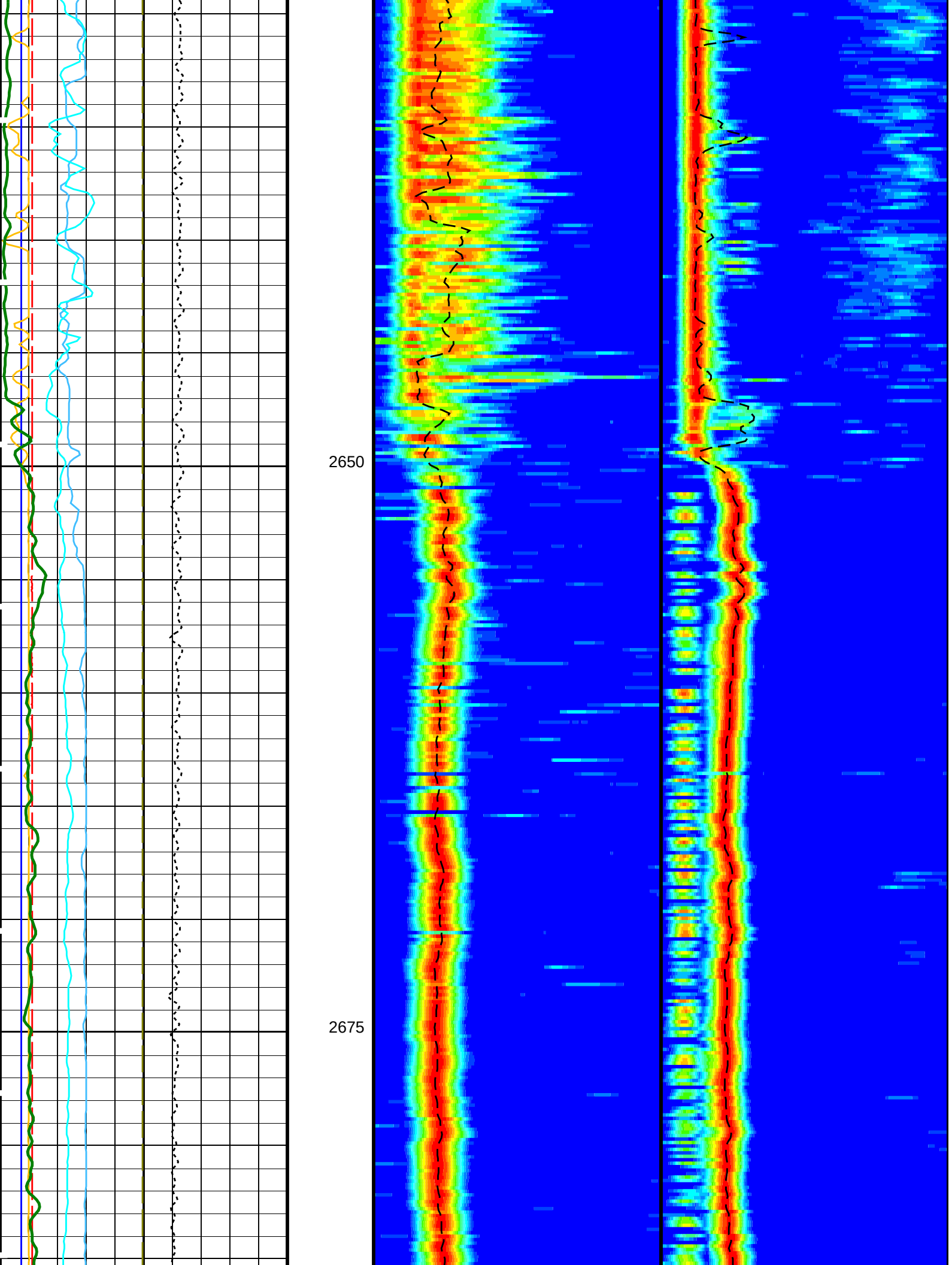
2600
2625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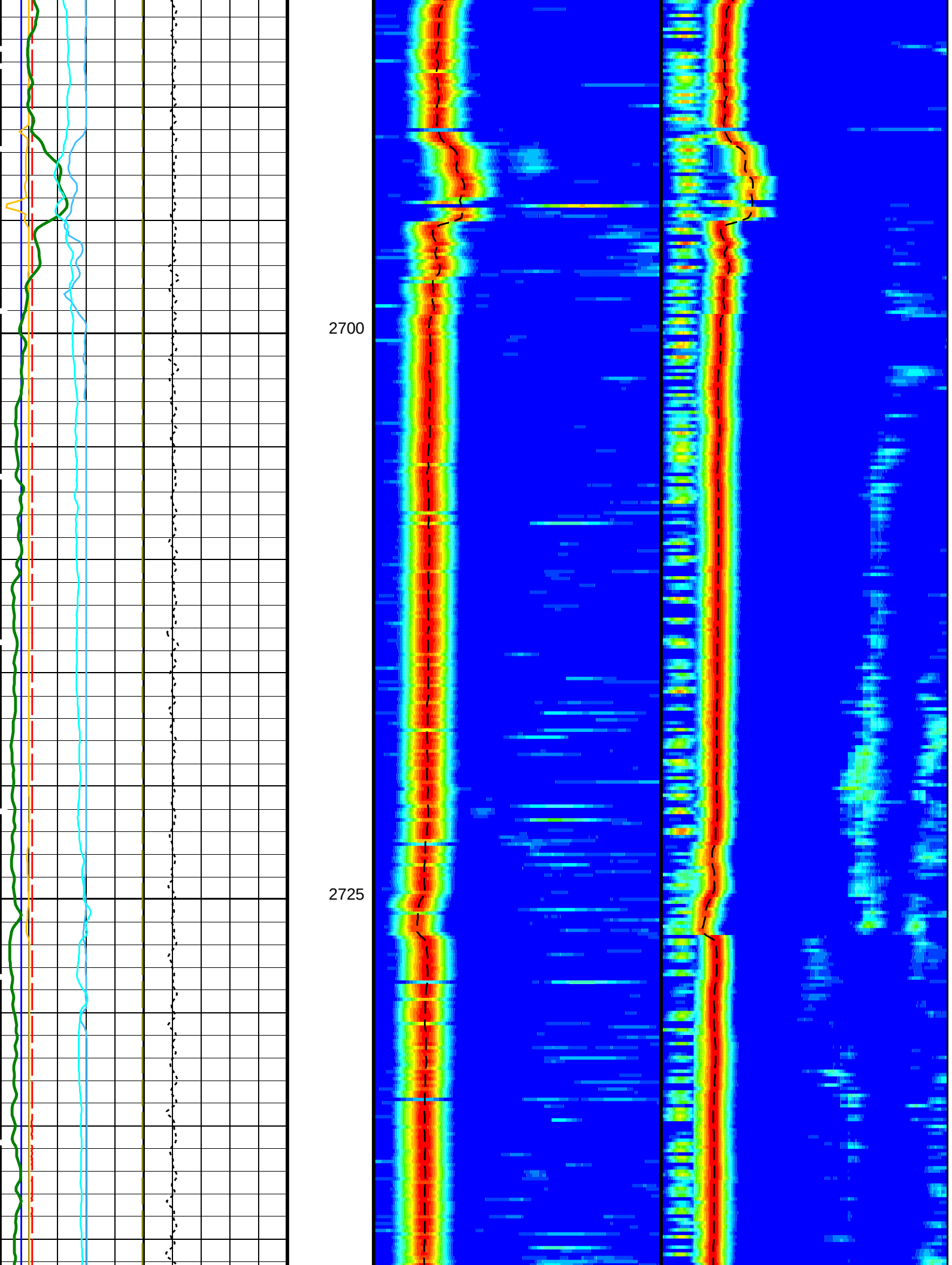
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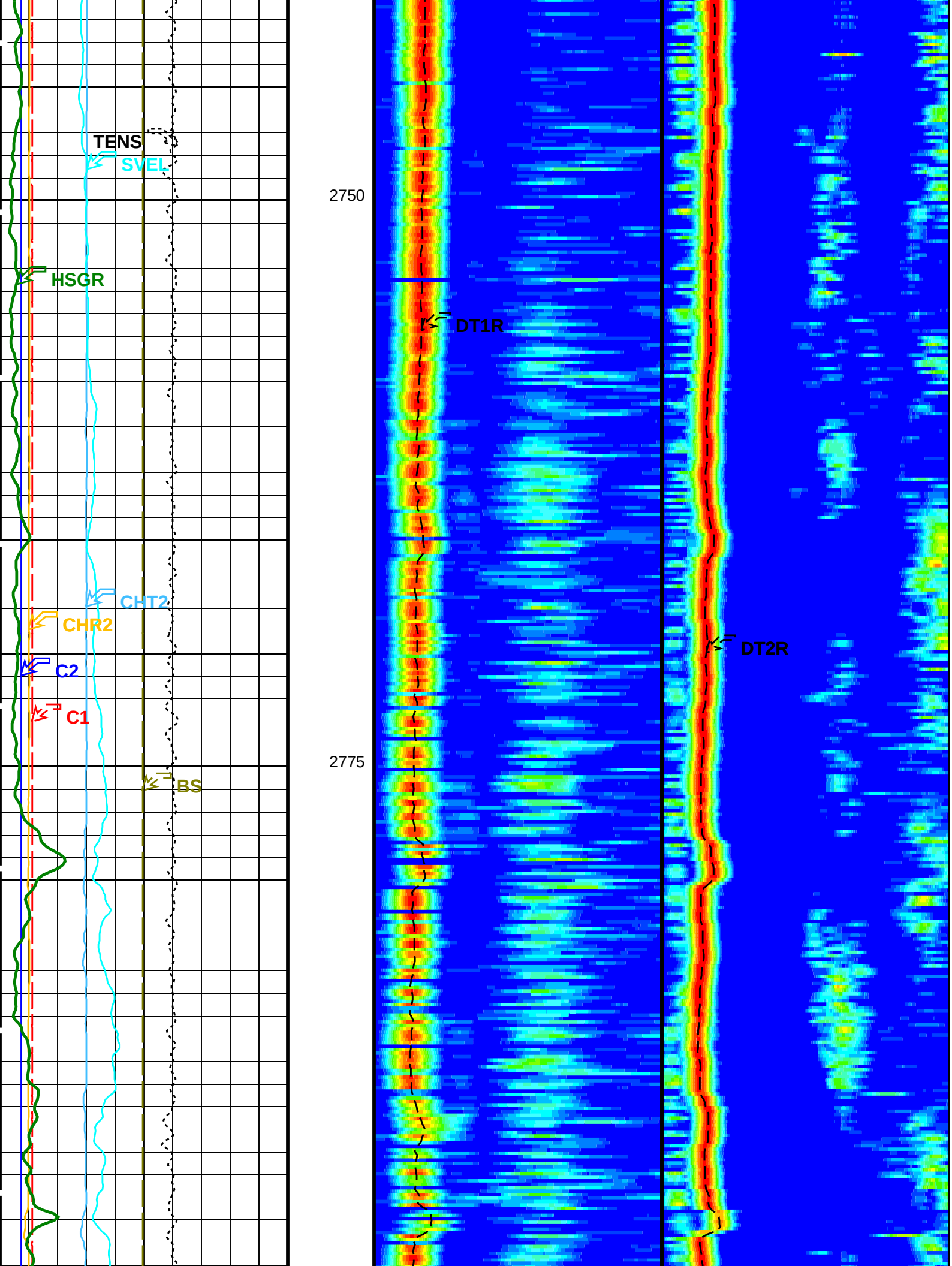
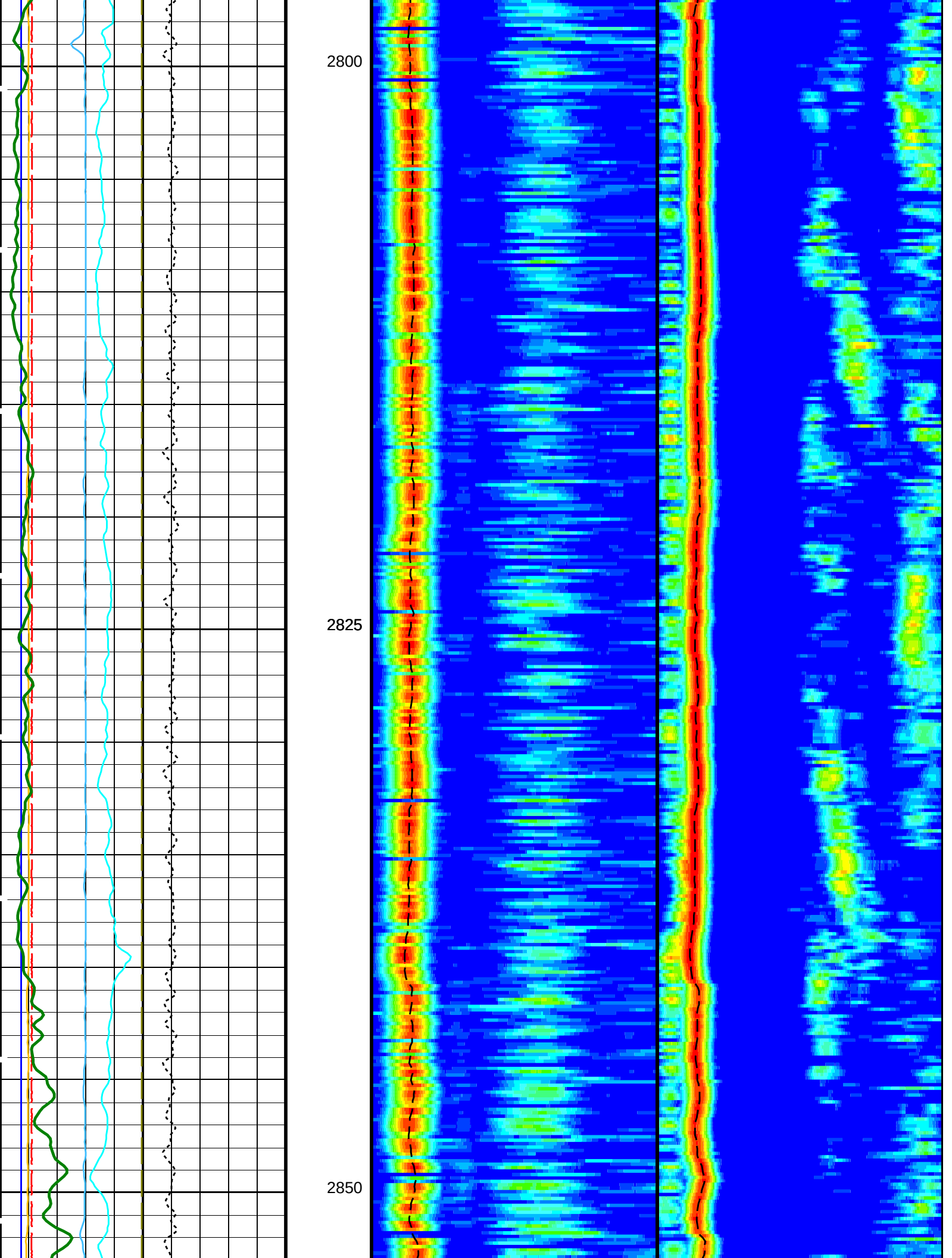
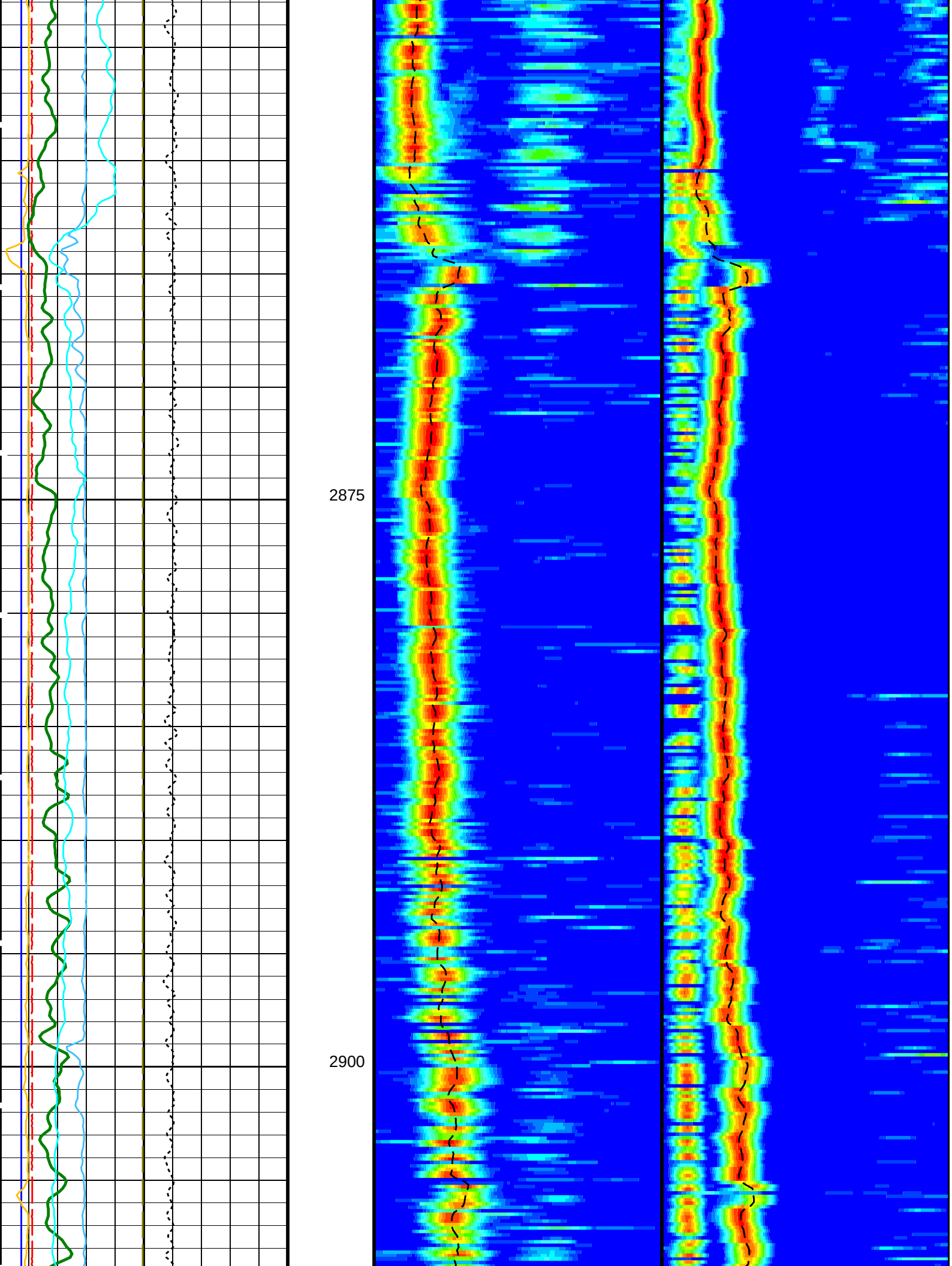
2725


TENS
SVEL
HSGR
CHT2
CHR2
C2
C1
BS
2750
2775
DT1R
DT2R


2800
2825
2850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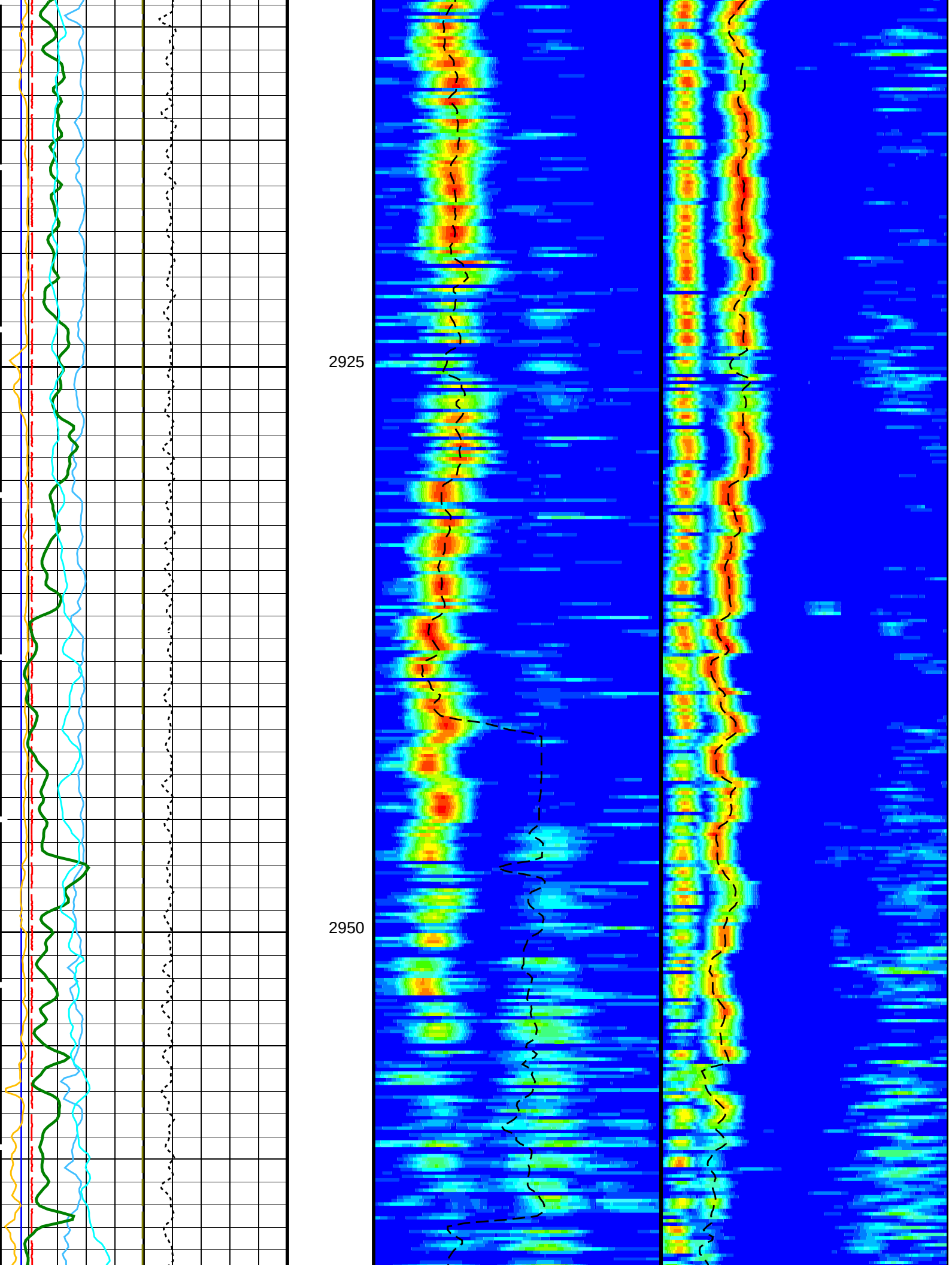
2900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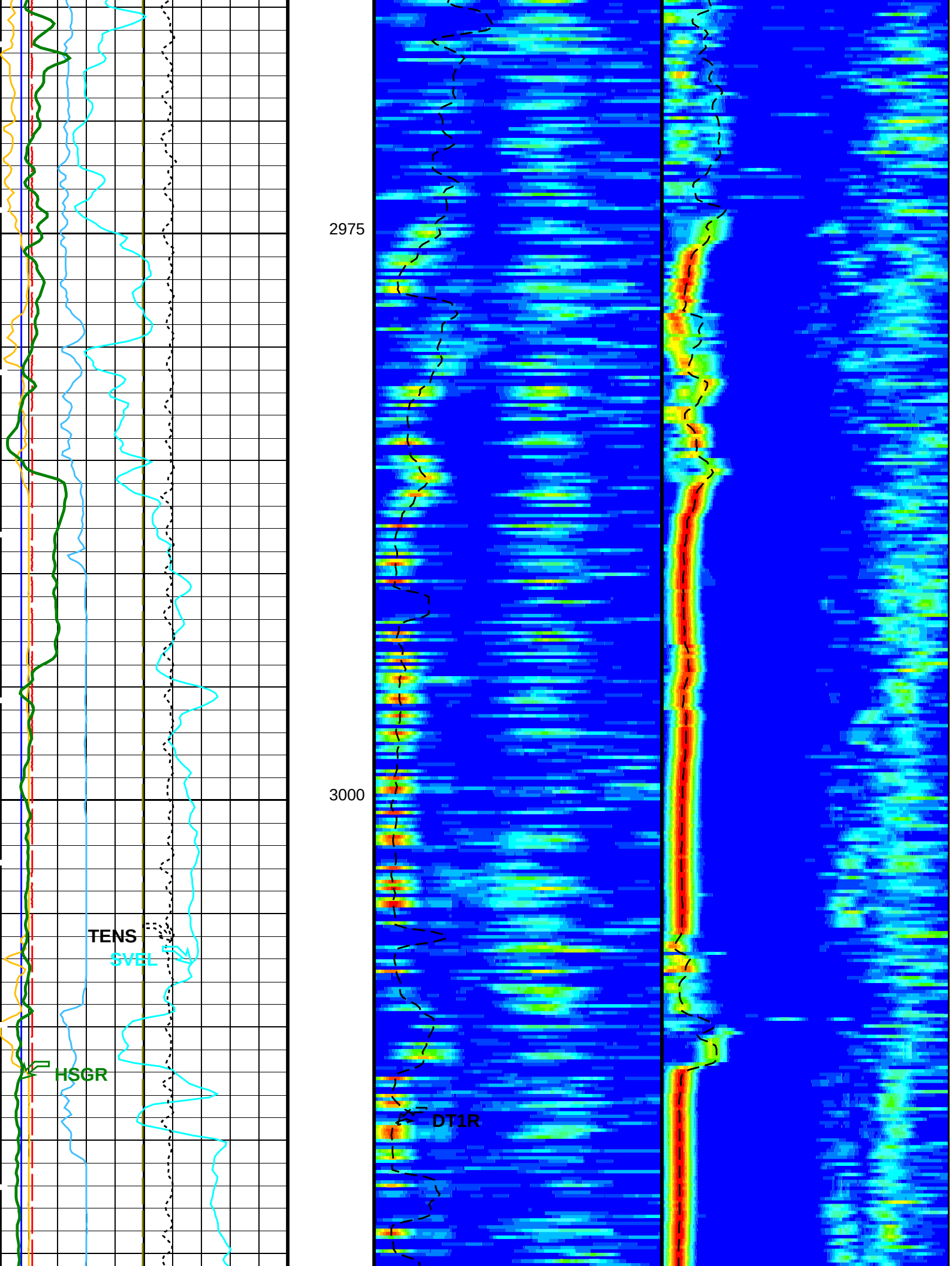
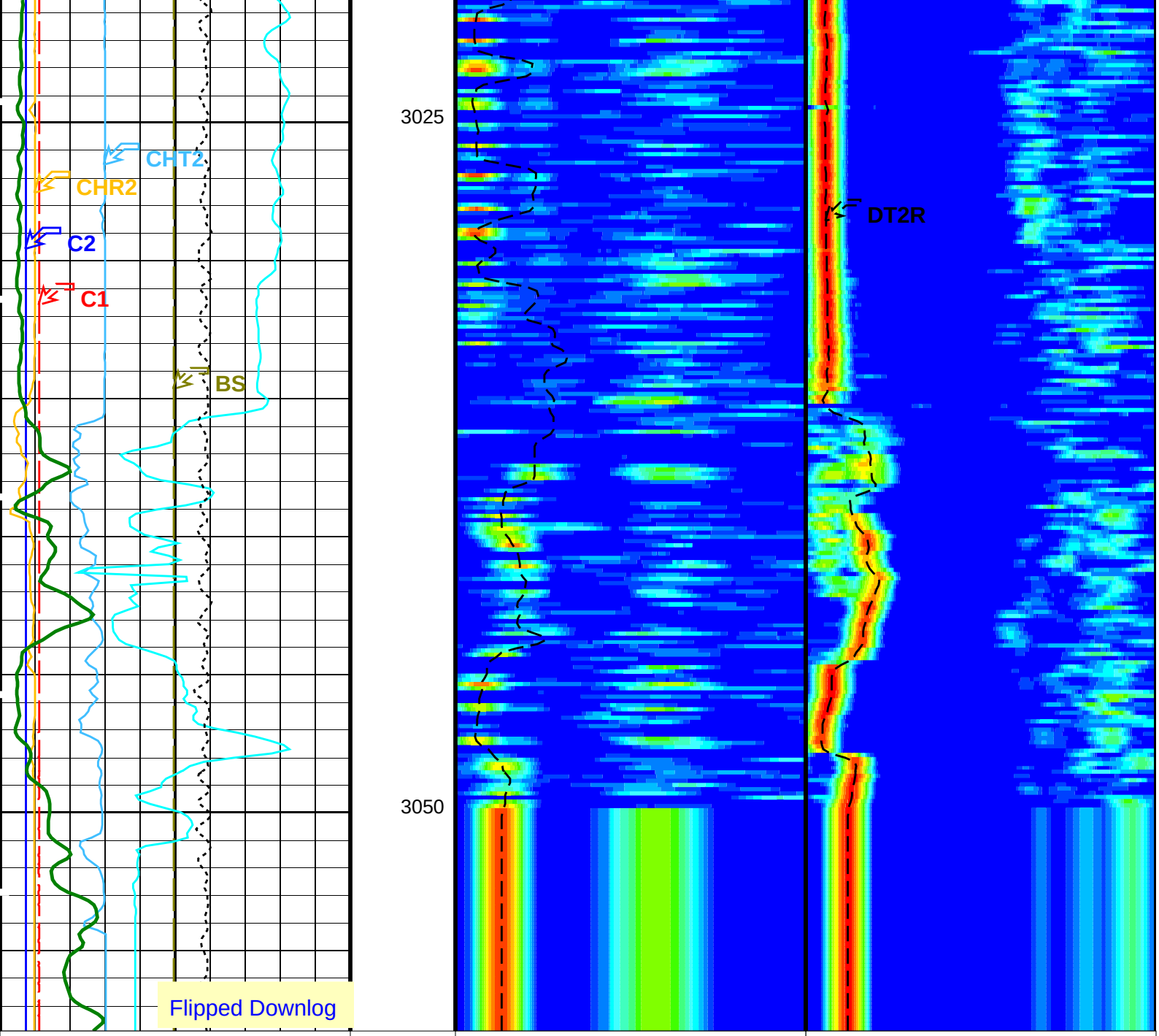

2975
3000
TENS
SVEL
HSGR
DT1R



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

Delta−T Shear / RA − Lower Dipole (DT1R)
40 (US/F) 1400

Min Amplitude Max

Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
40 (US/F) 1400

Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1400

Min Amplitude Max

Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1400

(CHT2)

−2 (−−−−) 8

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
DDE1	Digitizing Delay 1	0	US
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	40	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	500	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
GCSE	Generalized Caliper Selection	BS	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	32	
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	BCR	
SAS1	STC Sonic Array Status − Lower Dipole	255	
SAS2	STC Sonic Array Status − Upper Dipole	255	
SBO1	STC Search Band Offset − Lower Dipole	3000	US
SBO2	STC Search Band Offset − Upper Dipole	3000	US
SBW1	STC Search Bandwidth − Lower Dipole	8000	US
SBW2	STC Search Bandwidth − Upper Dipole	8000	US
SFC1	STC Formation Character − Lower Dipole	SELECTABLE	
SFC2	STC Formation Character − Upper Dipole	SELECTABLE	
SFM1	STC Filter − Lower Dipole	B.3−1.5K	
SFM2	STC Filter − Upper Dipole	B1−2K	
SLL1	STC Slowness Lower Limit − Lower Dipole	40	US/F
SLL2	STC Slowness Lower Limit − Upper Dipole	40	US/F
SST1	STC Slowness Step − Lower Dipole	4	US/F
SST2	STC Slowness Step − Upper Dipole	4	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform − Upper Dipole	WF_SAM2	
SUL1	STC Slowness Upper Limit − Lower Dipole	1400	US/F
SUL2	STC Slowness Upper Limit − Upper Dipole	1400	US/F
SWD1	STC Slowness Width − Lower Dipole	40	US/F
SWD2	STC Slowness Width − Upper Dipole	40	US/F
TBF1	STC Time for Baseline Fill − Lower Dipole	0	US
TBF2	STC Time for Baseline Fill − Upper Dipole	0	US
TLL1	STC Time Lower Limit − Lower Dipole	600	US
TLL2	STC Time Lower Limit − Upper Dipole	600	US
TST1	STC Time Step − Lower Dipole	200	US
TST2	STC Time Step − Upper Dipole	200	US
TUL1	STC Time Upper Limit − Lower Dipole	20440	US
TUL2	STC Time Upper Limit − Upper Dipole	20440	US
TWD1	STC Time Width − Lower Dipole	2000	US
TWD2	STC Time Width − Upper Dipole	2000	US
TWI1	STC Integration Time Window − Lower Dipole	1600	US
TWI2	STC Integration Time Window − Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	

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	−0.00162093	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.713604	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.83082	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	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: 09−Mar−2022 20:23

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP	PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23	

Company: International Ocean Discovery Program Well: Expedition 392, Site U1580A

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP	PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23	3057.9 M	2528.3 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	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

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

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)		
0	(----)	10

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

Peak Coherence / RA − P & S Comp (CHRP)
0 (−−−−) 10

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

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

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

Downlog

Min Amplitude Max

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

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

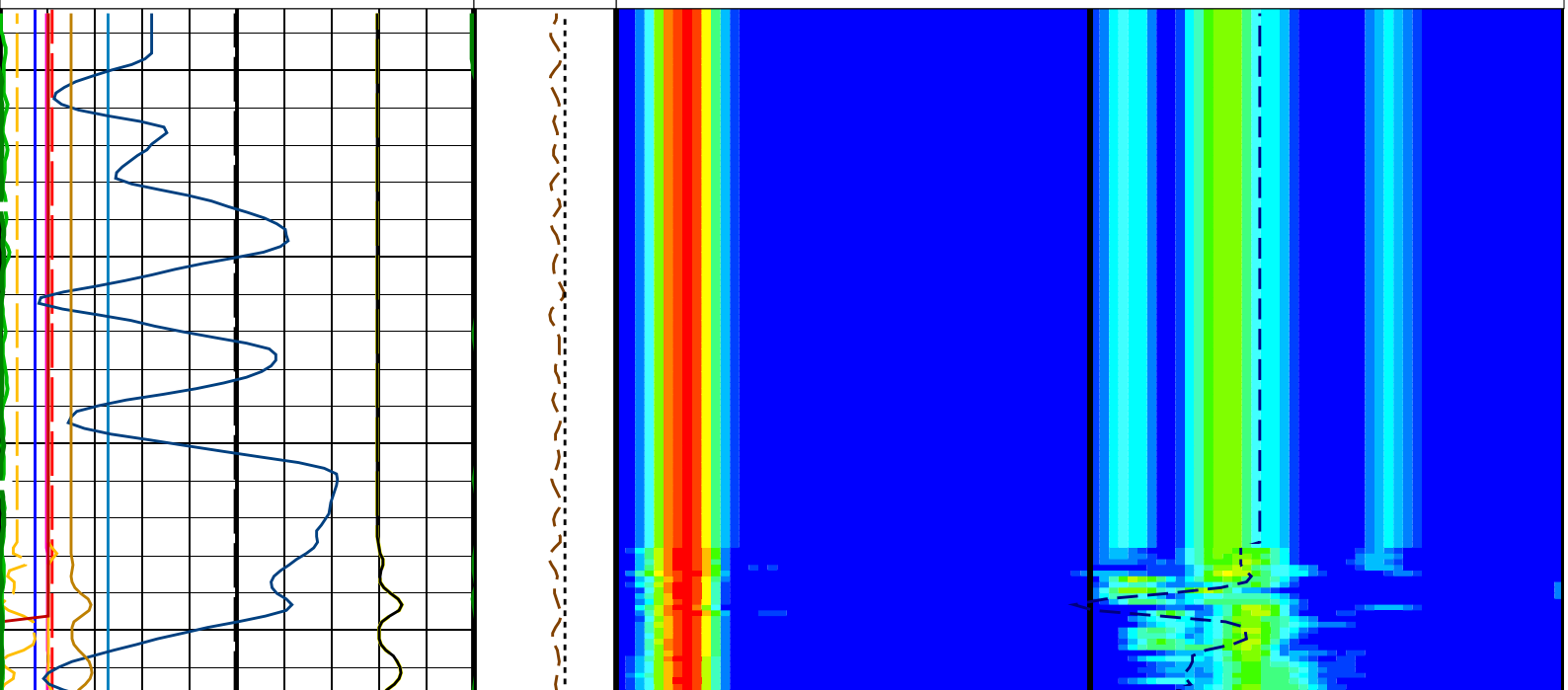
Calibrated Downhole Force (CDF) (LBF)
3000 0

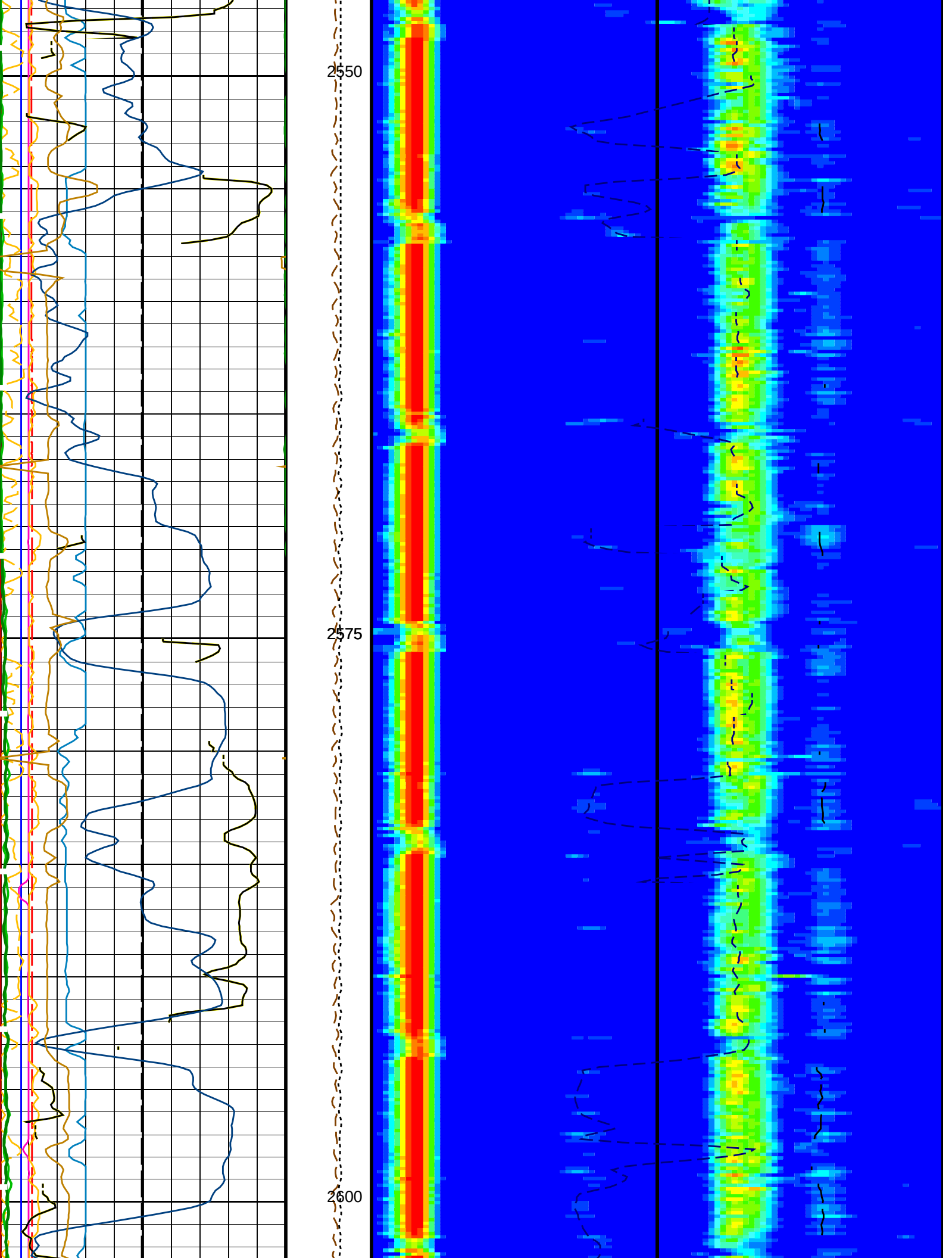
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

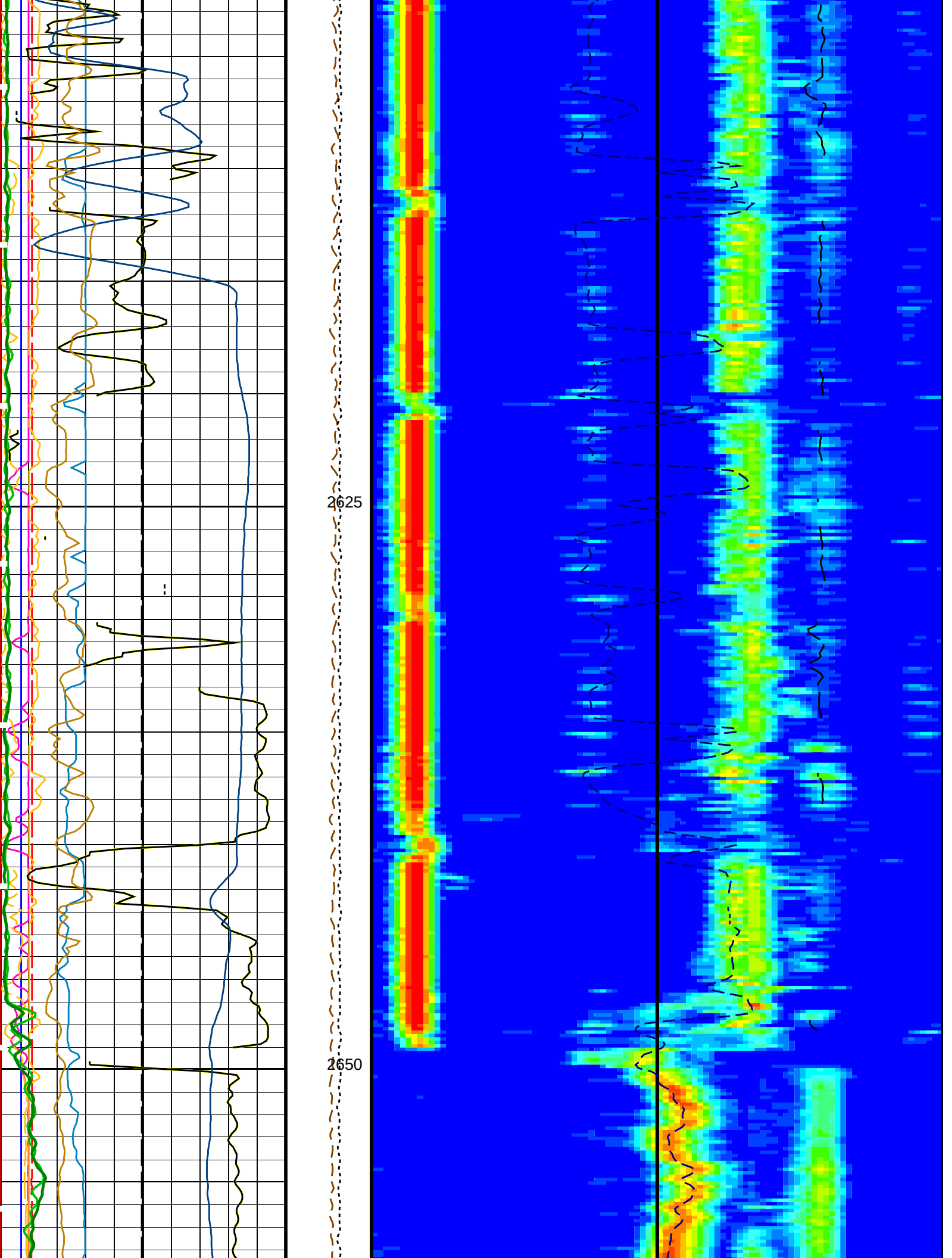
Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

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




2550
2575
2600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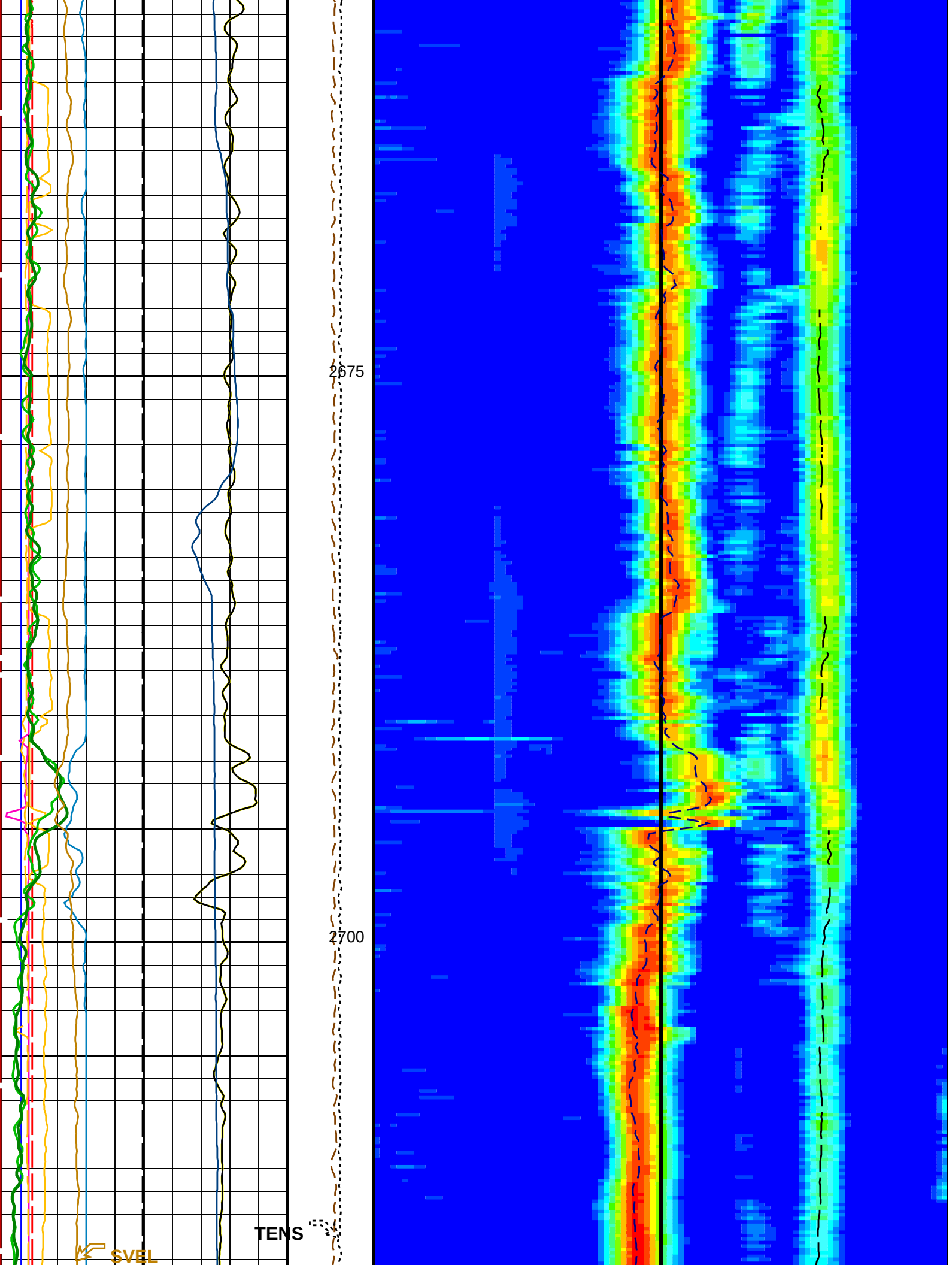
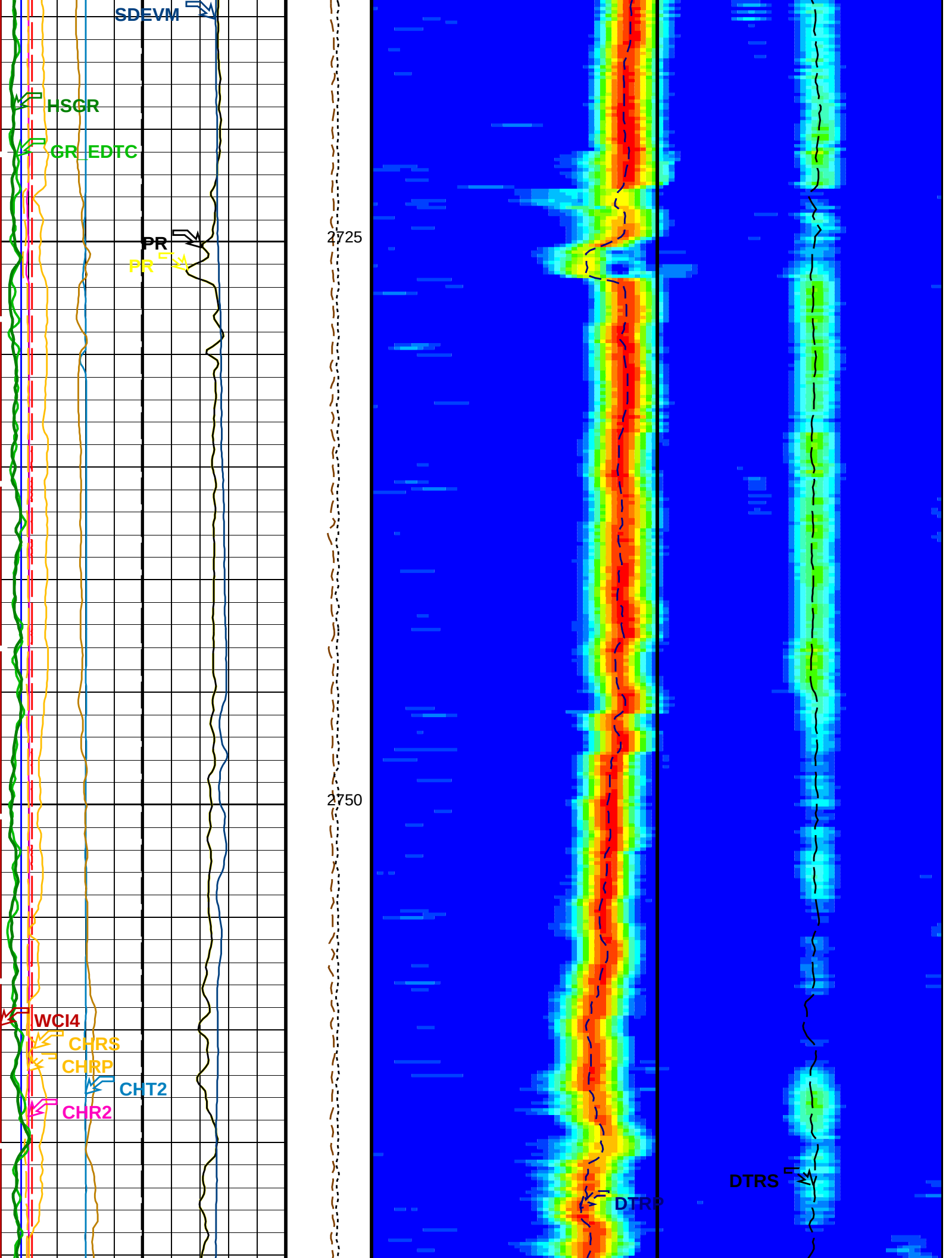
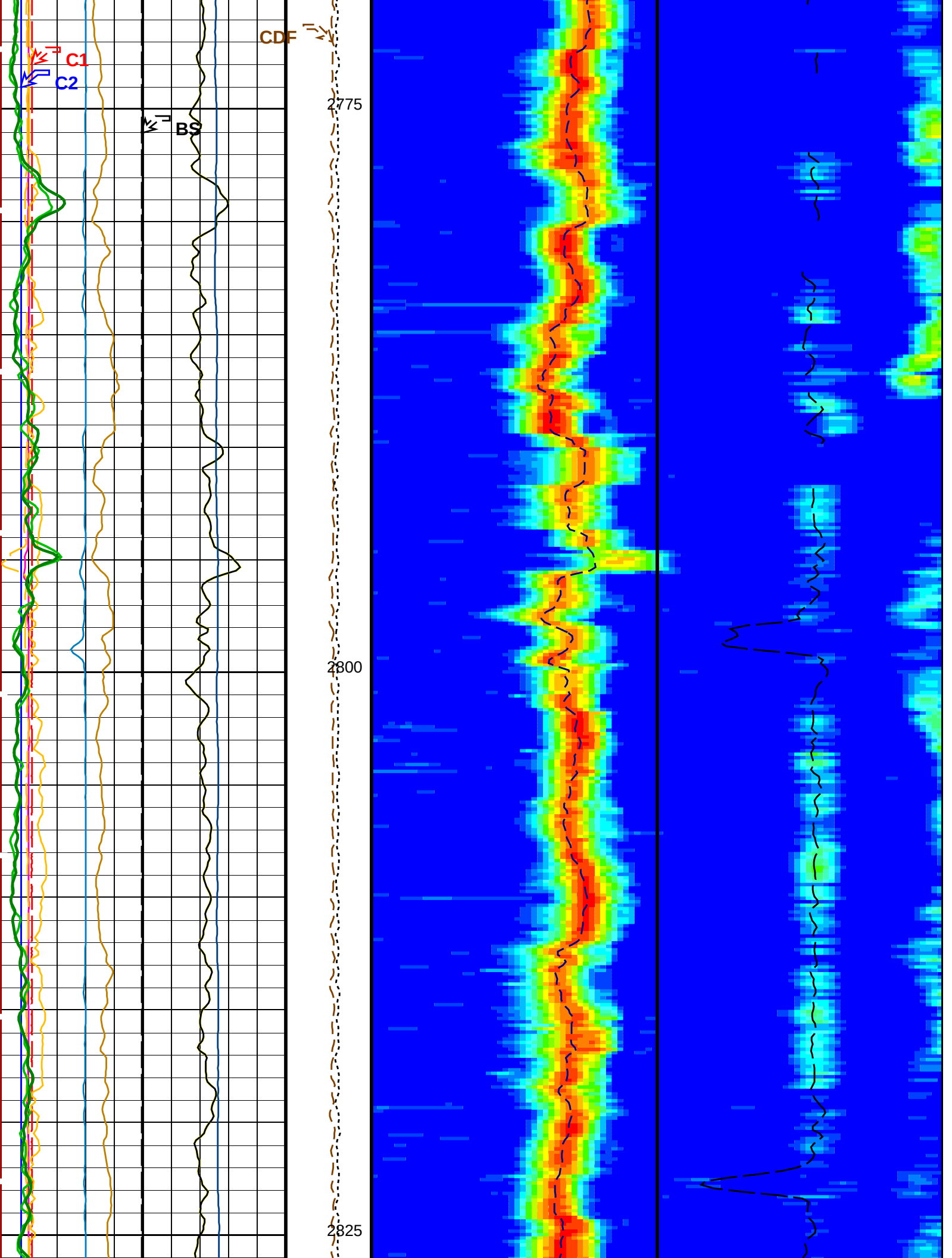
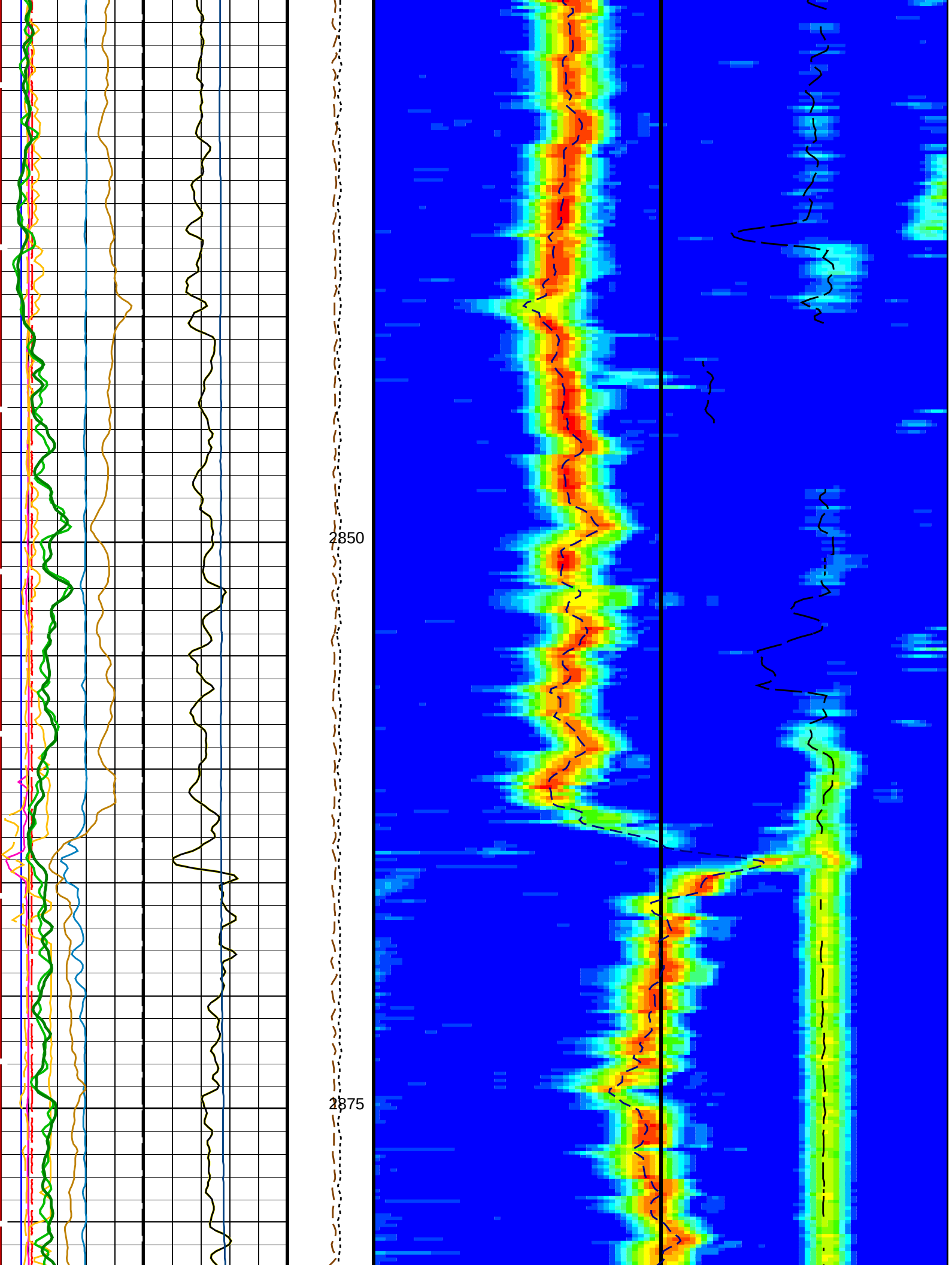

2675
2700
TENS
SVEL


SDEVM
HSGR
GR_EDTC
PR
PR
2725
2750
WCI4
CHRS
CHRP
CHT2
CHR2
DTRS
DTRP


CDF
C1
C2
BS
2775
2800
2825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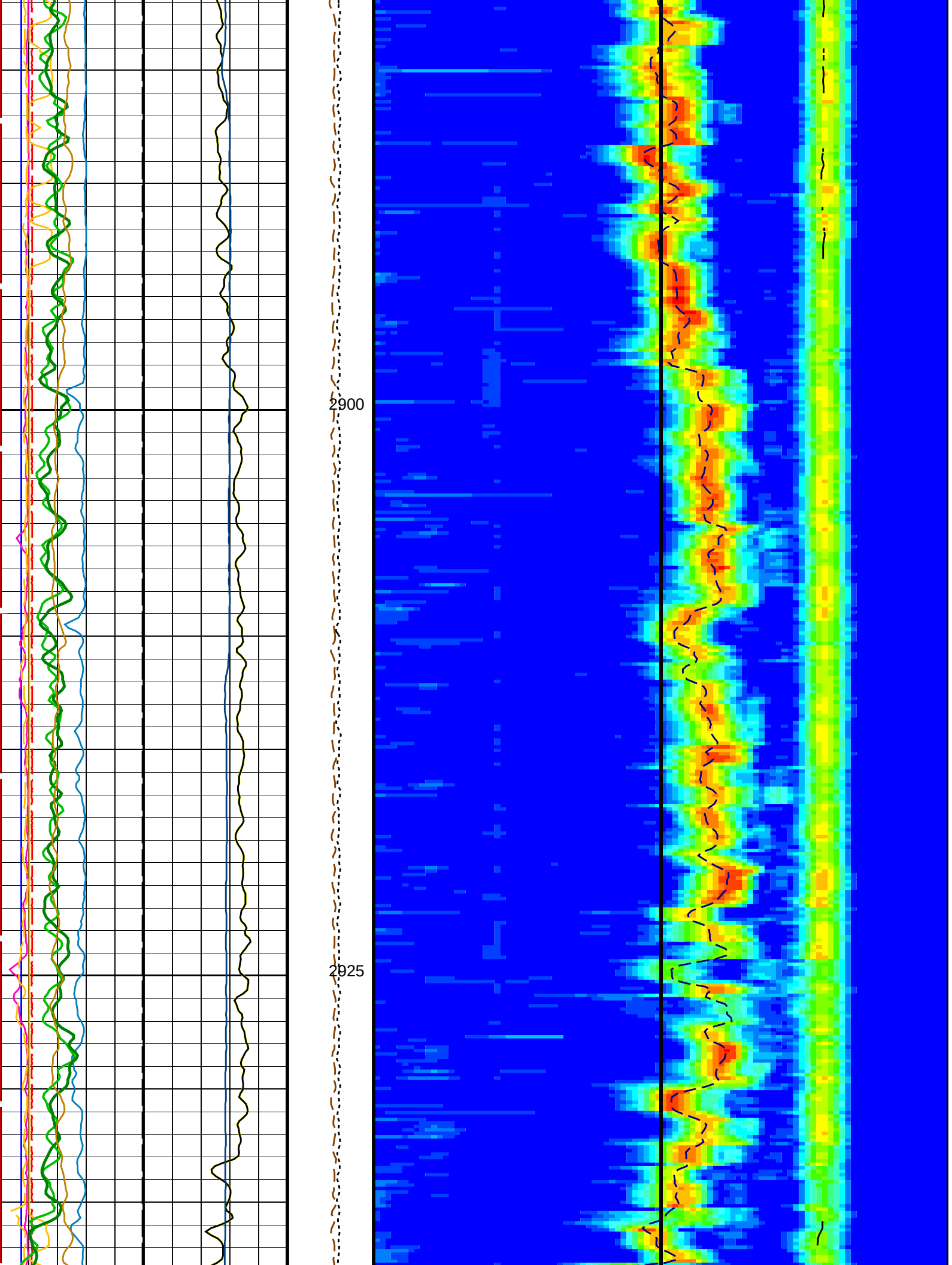
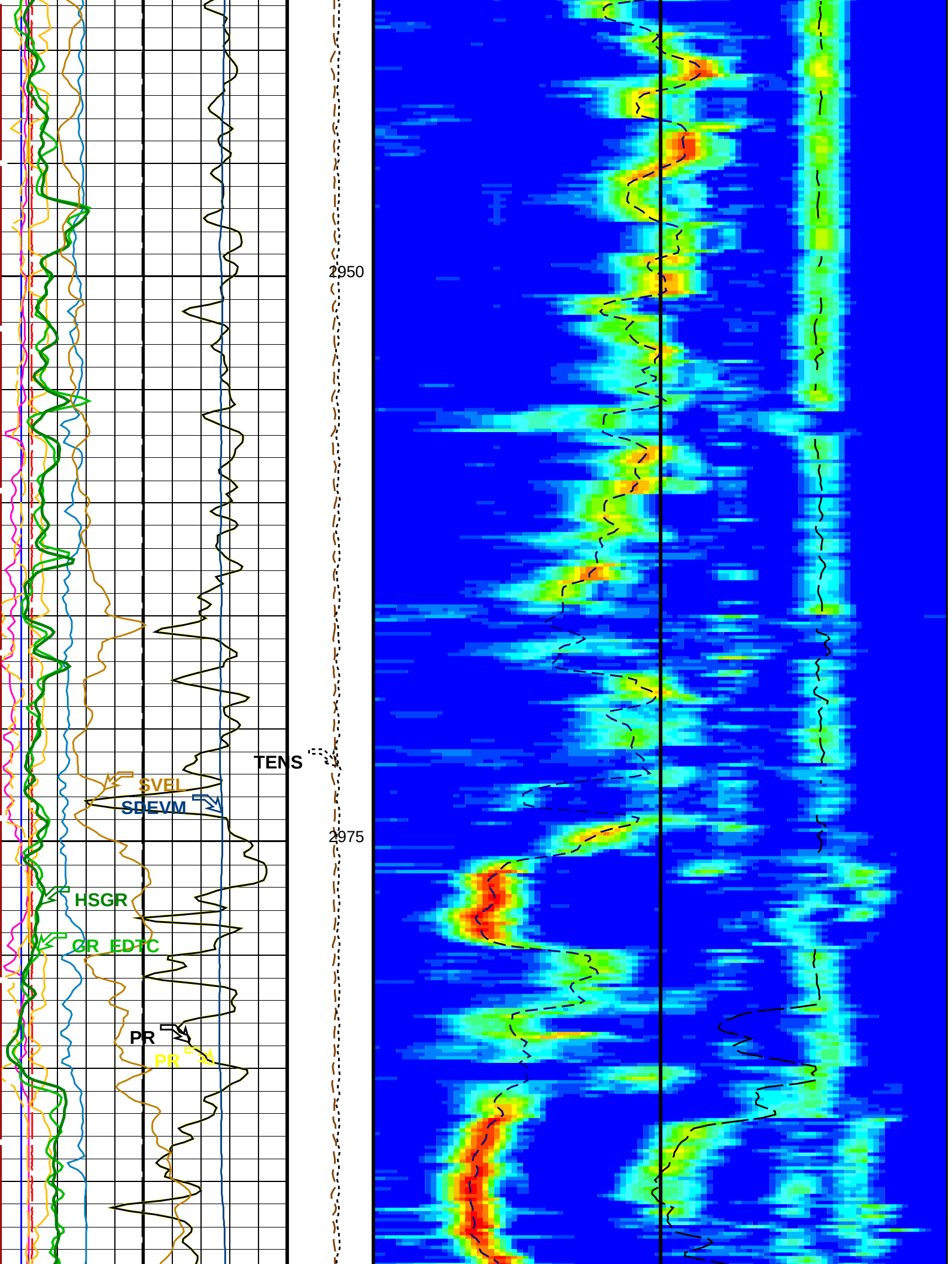
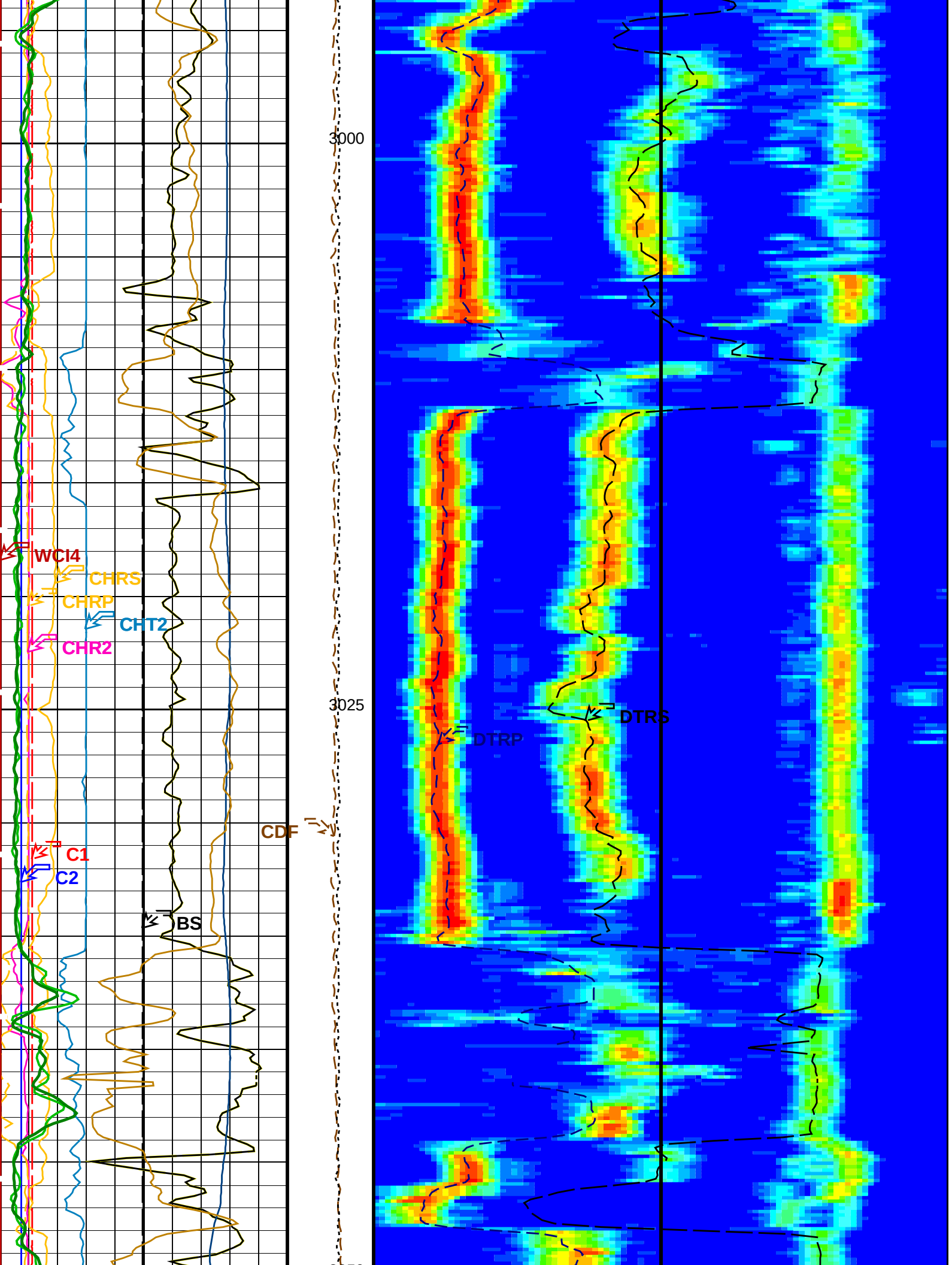
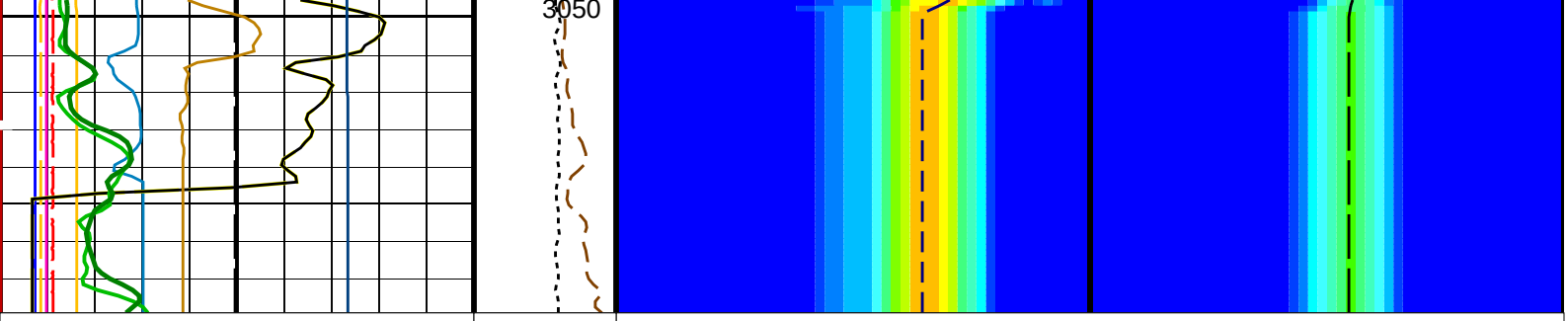
2875


2900
2925


2950
TENS
SVEL
SDEVM
2975
HSGR
CR_EDTC
PR
PR


3000
3025
WCI4
CHRS
CHRP
CHT2
CHR2
C1
C2
BS
CDF
DTRP
DTRS



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Comp / RA − P & S (DTRP) 40 (US/F) 240
Caliper 2 (C2) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 3000 0	Delta−T Shear / RA − P & S (DTRS) 40 (US/F) 240
Caliper 1 (C1) 0 (IN) 20		Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240

Downlog

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
Gamma Ray (GR_EDTC)	0 (GAPI)	100
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

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	−35.0569	DEG
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	55	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	120	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	40	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	500	US/F
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DTF	Delta−T Fluid	212	US/F
DTSS	Shear Delta−T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	32	
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	BCR	
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	90	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	200	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	
	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	
HARK	HNGS Borehole Potassium Running Average	−0.00162093	

HABK	HNGS Borehole Potassium Running Average	−0.00162093	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.713604	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.83082	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	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: 09−Mar−2022 20:23

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_051LUP		PRODUCER	09−Mar−2022 18:36	3058.0 M	2528.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_059PUP	FN:81	PRODUCER	09−Mar−2022 20:23		

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

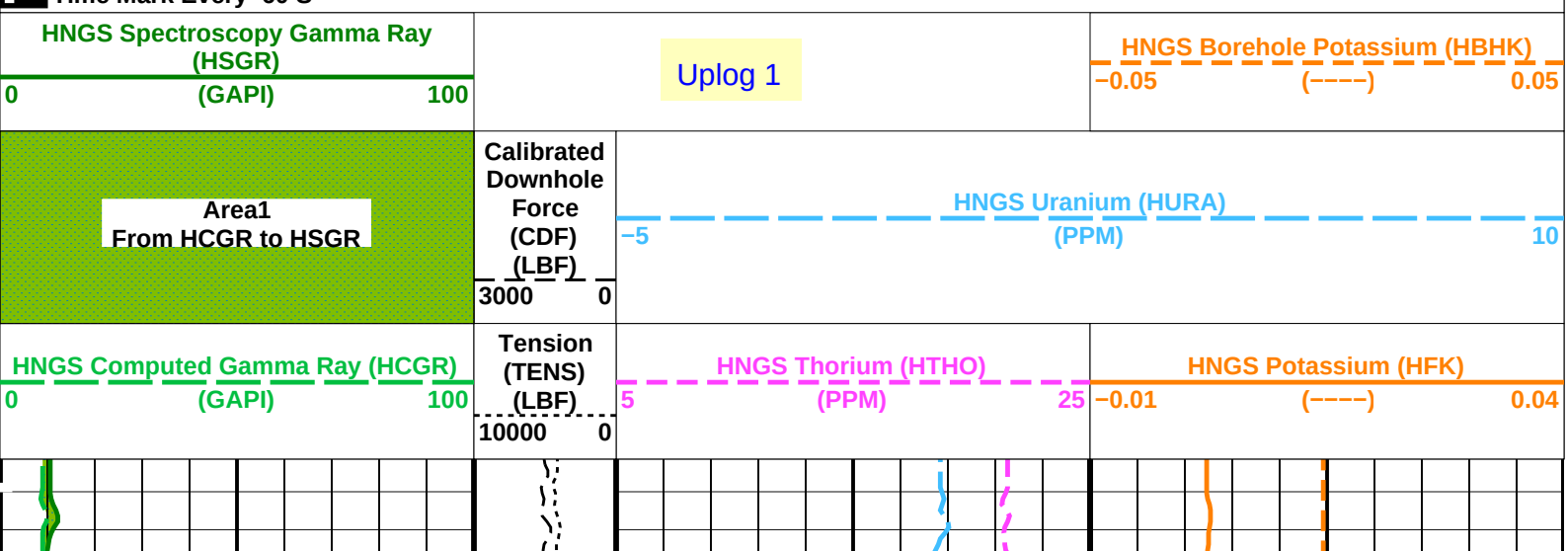
DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43	3093.0 M	2696.1 M

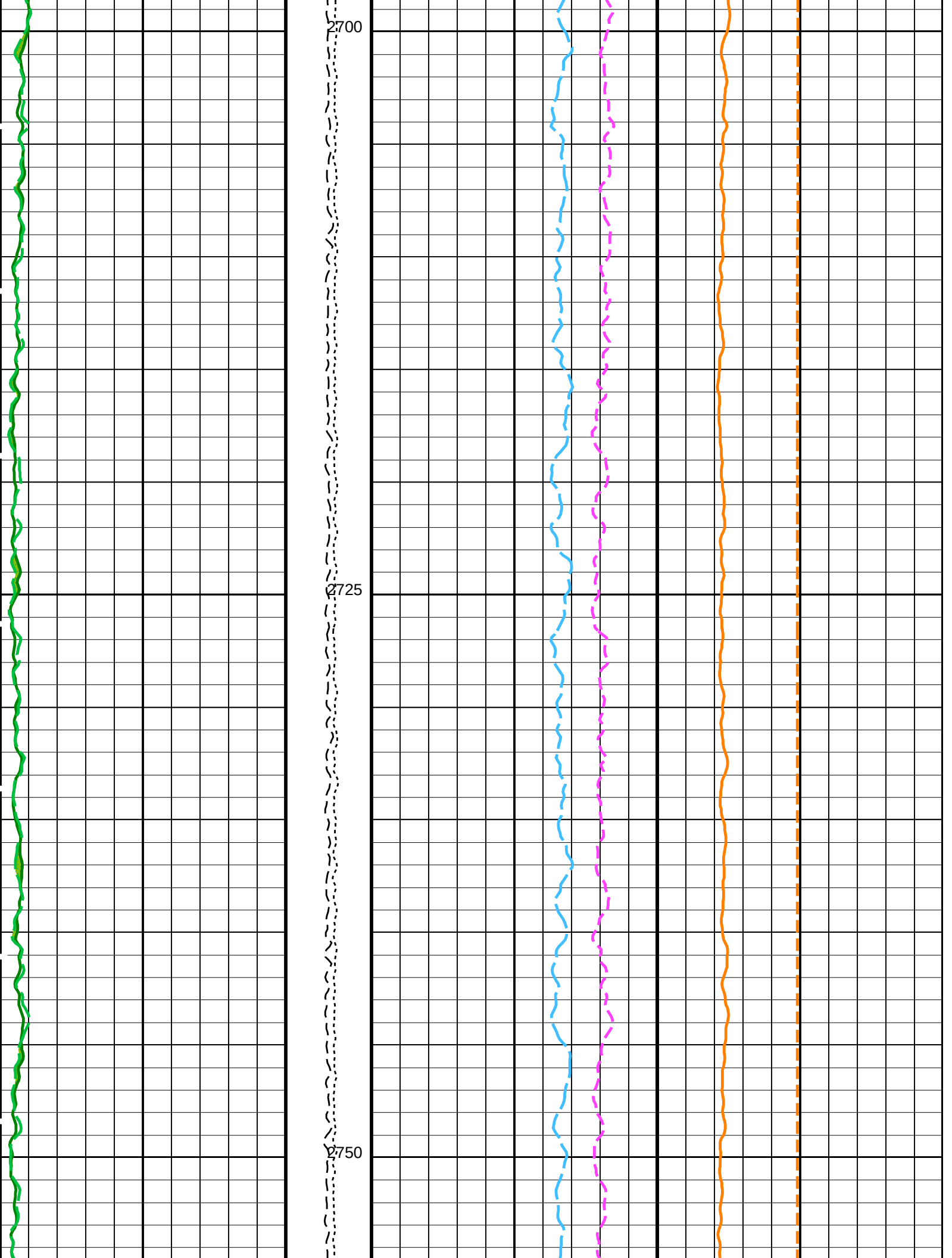
OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

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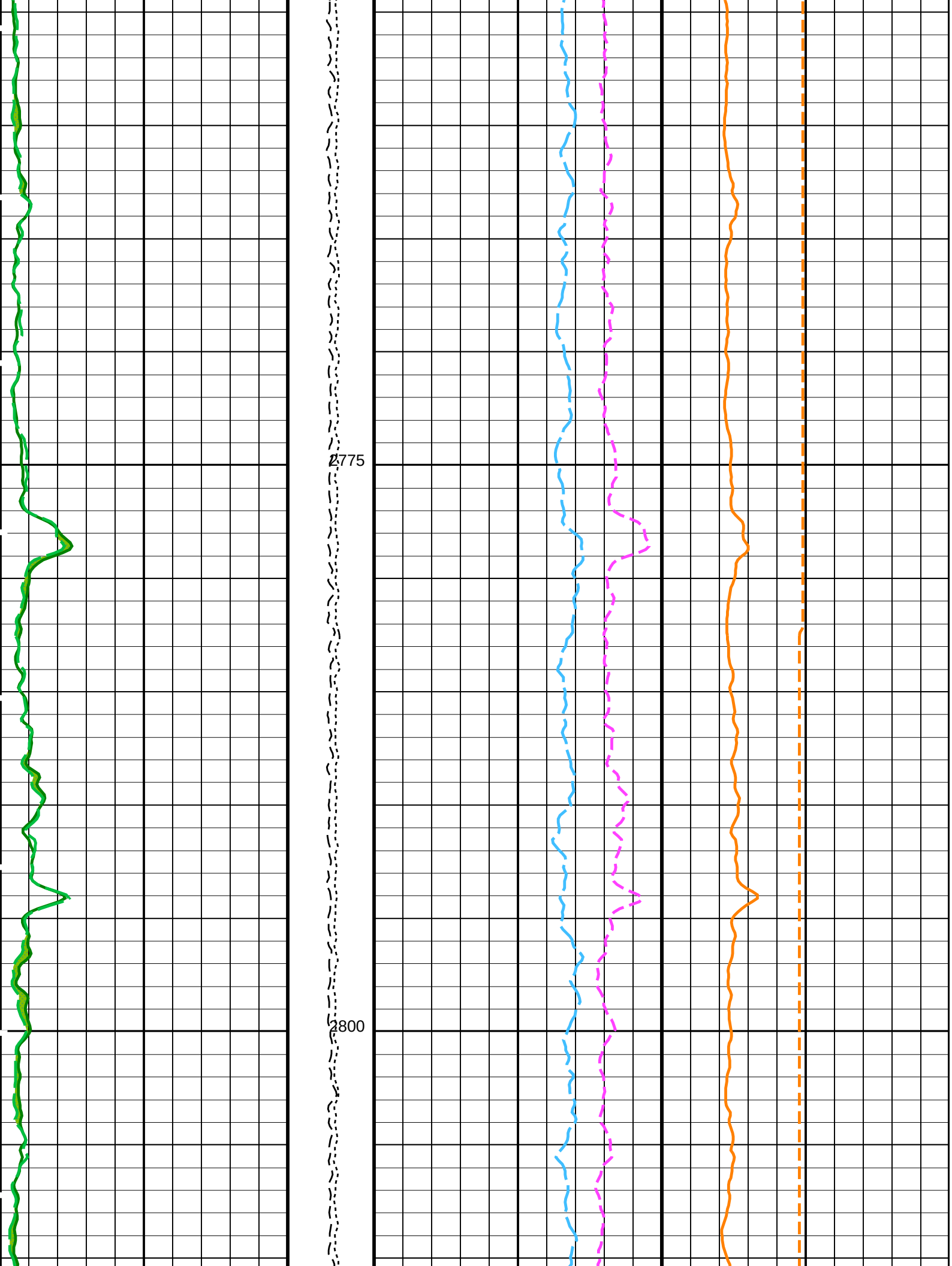
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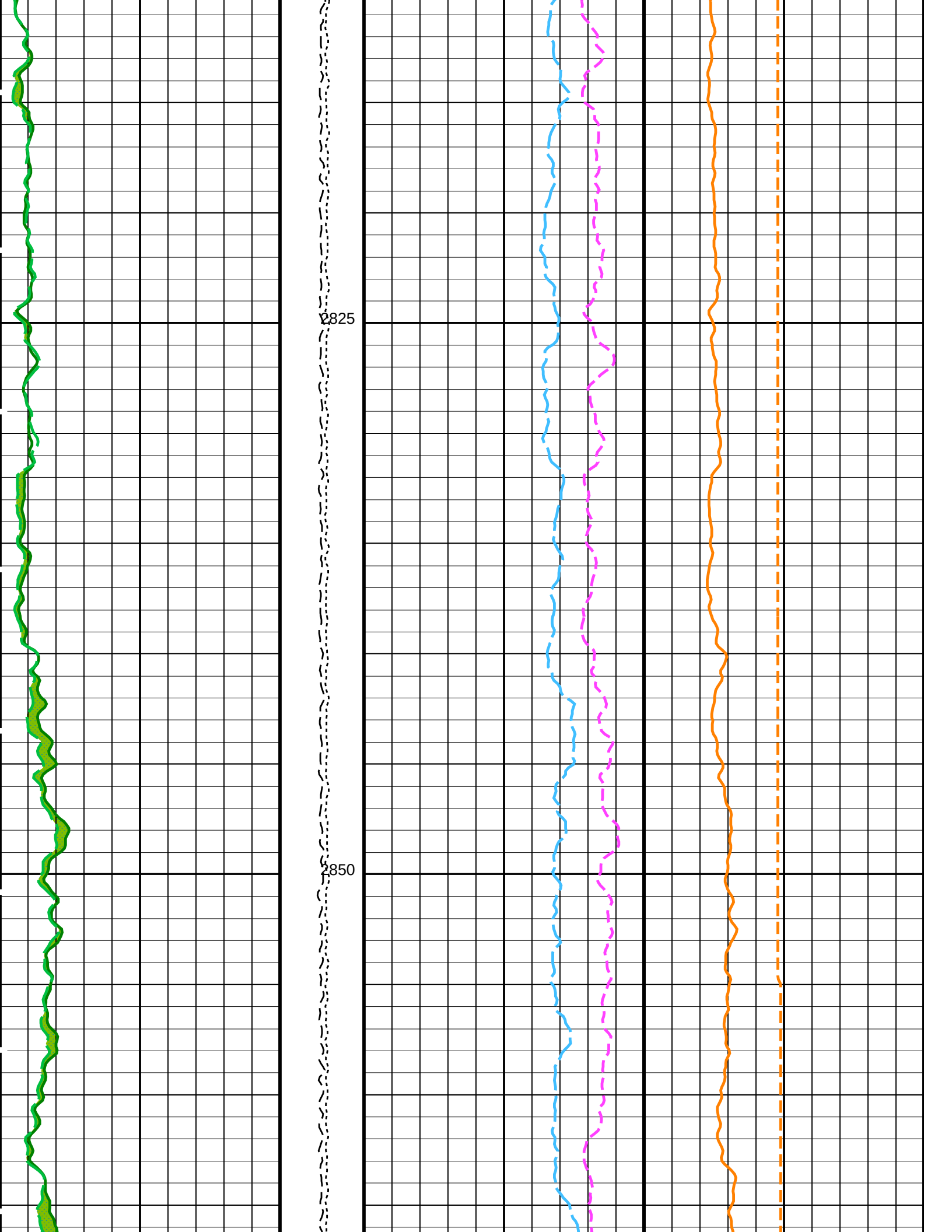
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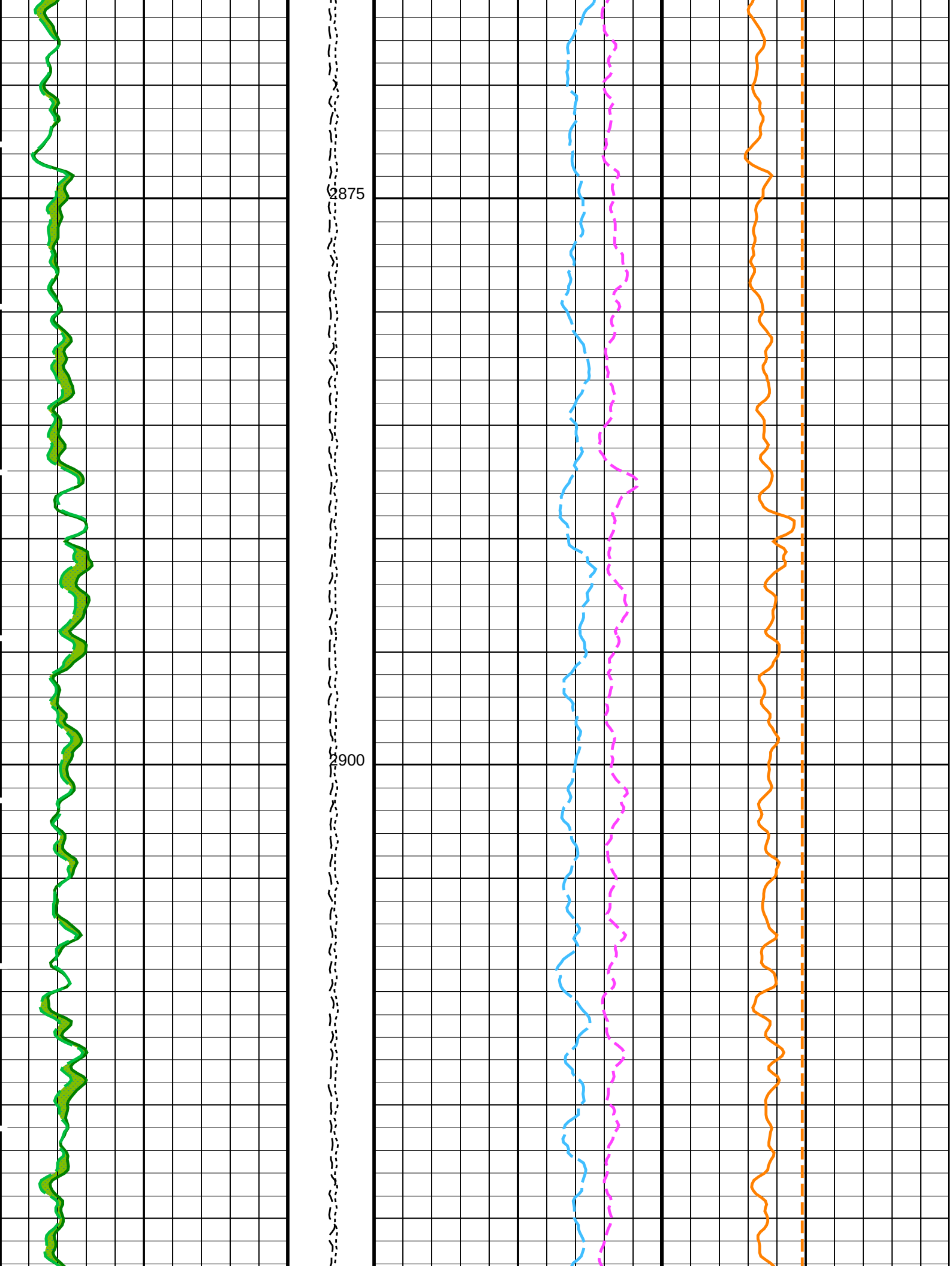
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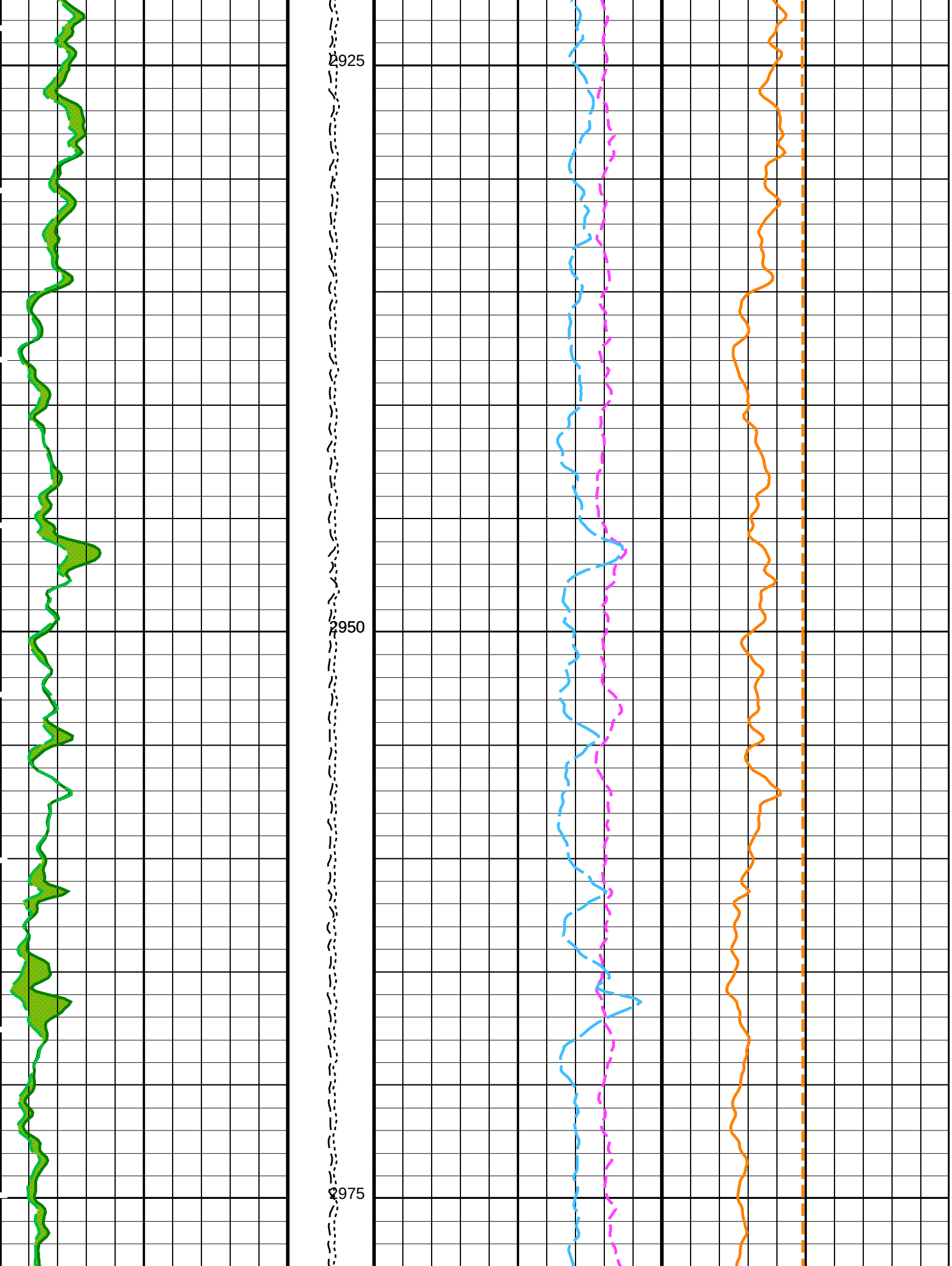
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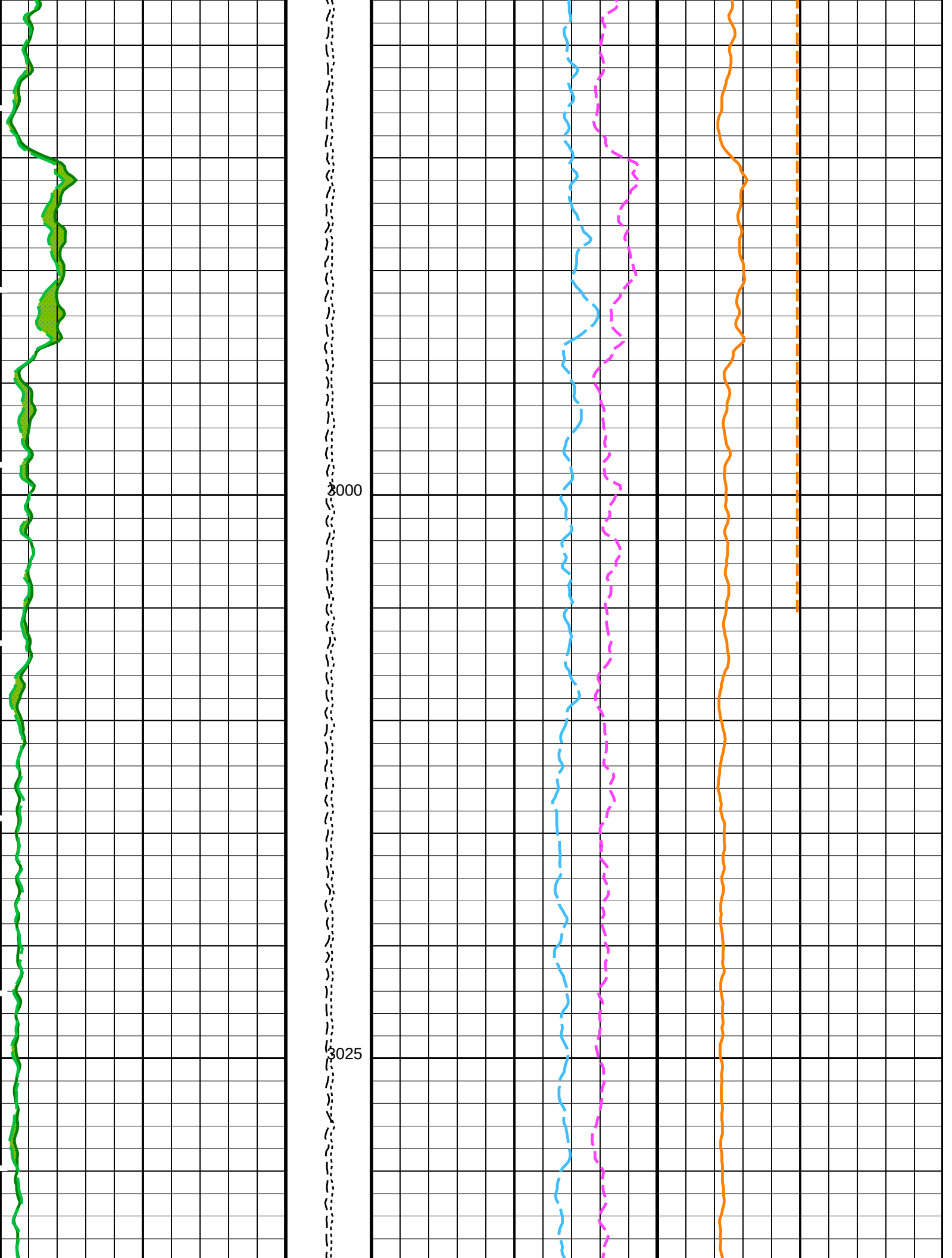
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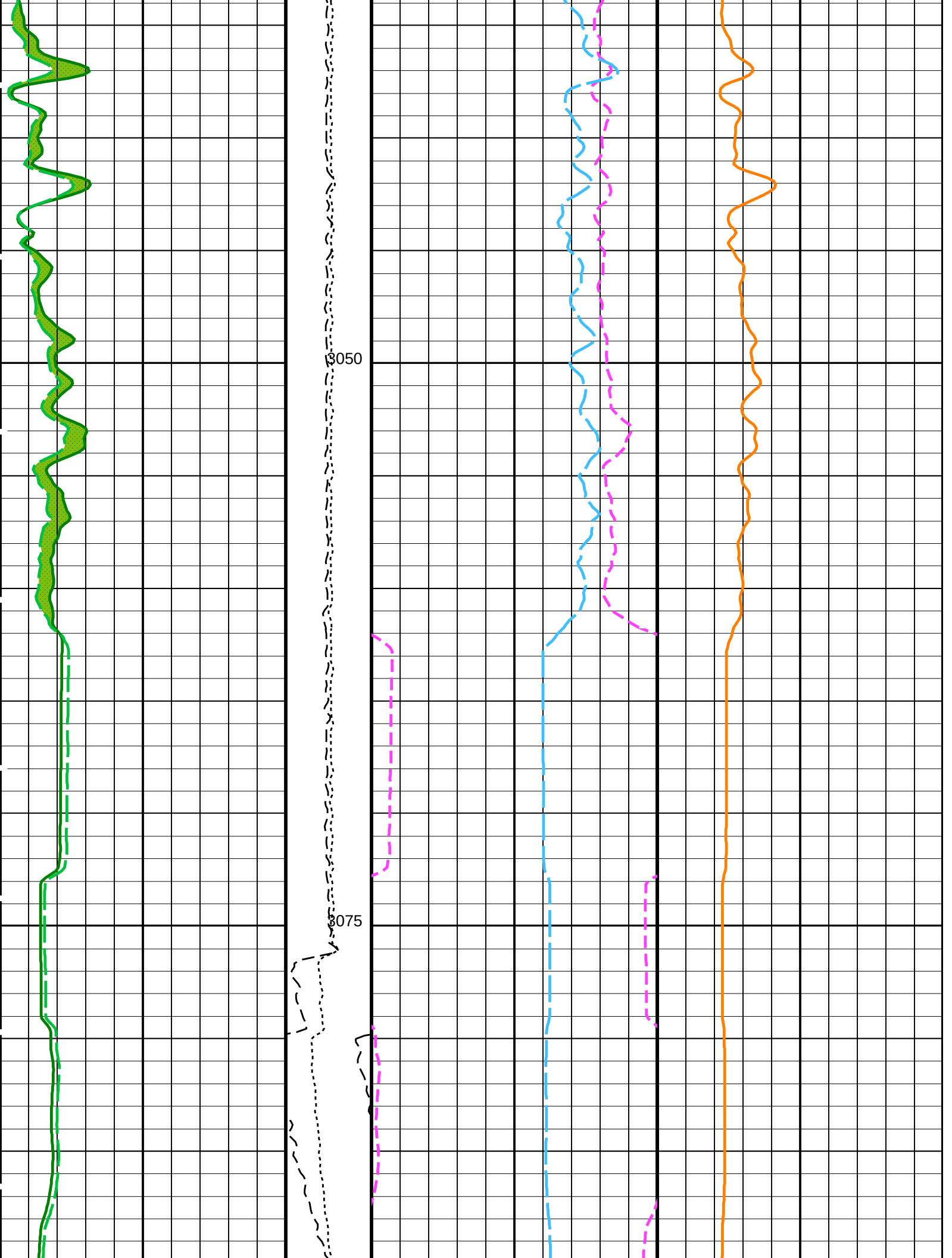
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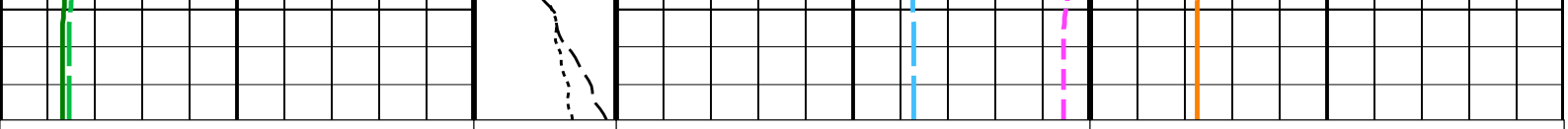


HNGS Computed Gamma Ray (HCGR)	Tension (TENS) (LBF)	HNGS Thorium (HTHO)	HNGS Potassium (HFK)
0 (GAPI) 100	10000 0	5 (PPM) 25	−0.01 (−−−−) 0.04
Area1 From HCGR to HSGR	Calibrated Downhole Force (CDF) (LBF) 3000 0	HNGS Uranium (HURA) −5 (PPM) 10	
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100	Uplog 1		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	−0.001218	
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	1.02489	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05812	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09−Mar−2022 20:43

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43		

Company: International Ocean Discovery Program — Well: Expedition 392, Site U1580A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43	3093.0 M	2696.1 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

Deviation at DSST Waveform Depth (DVWD)
0 (DEG) 100

Relative Bearing at DSST Waveform Depth (RBWD)
0 (DEG) 400

Azimuth at DSST Waveform Depth (AZWD)
0 (DEG) 400

Waveform Data Copy Indicator X − Expert (WCIX)
0 (−−−−) 10

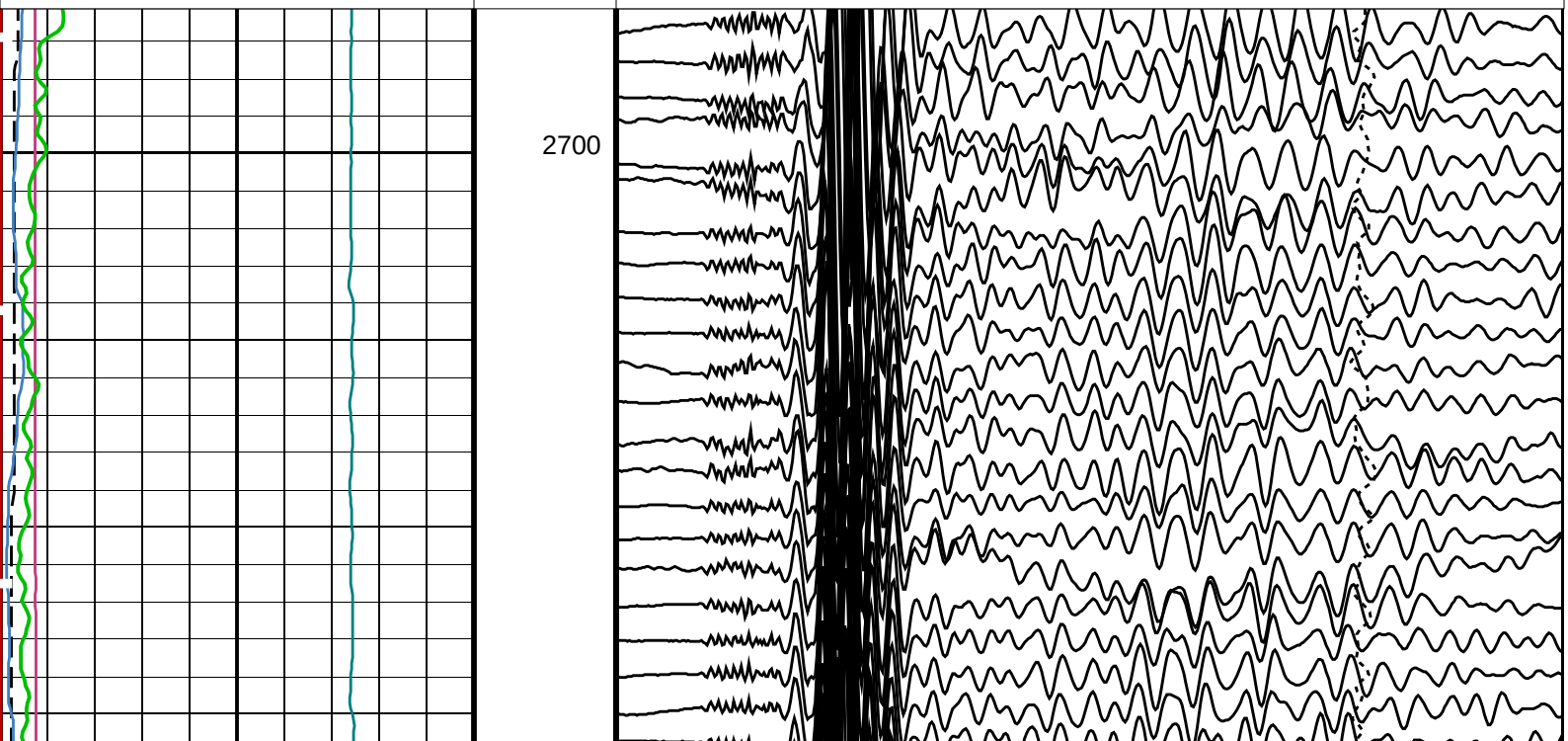
Gamma Ray (GR_EDTC)
0 (GAPI) 100

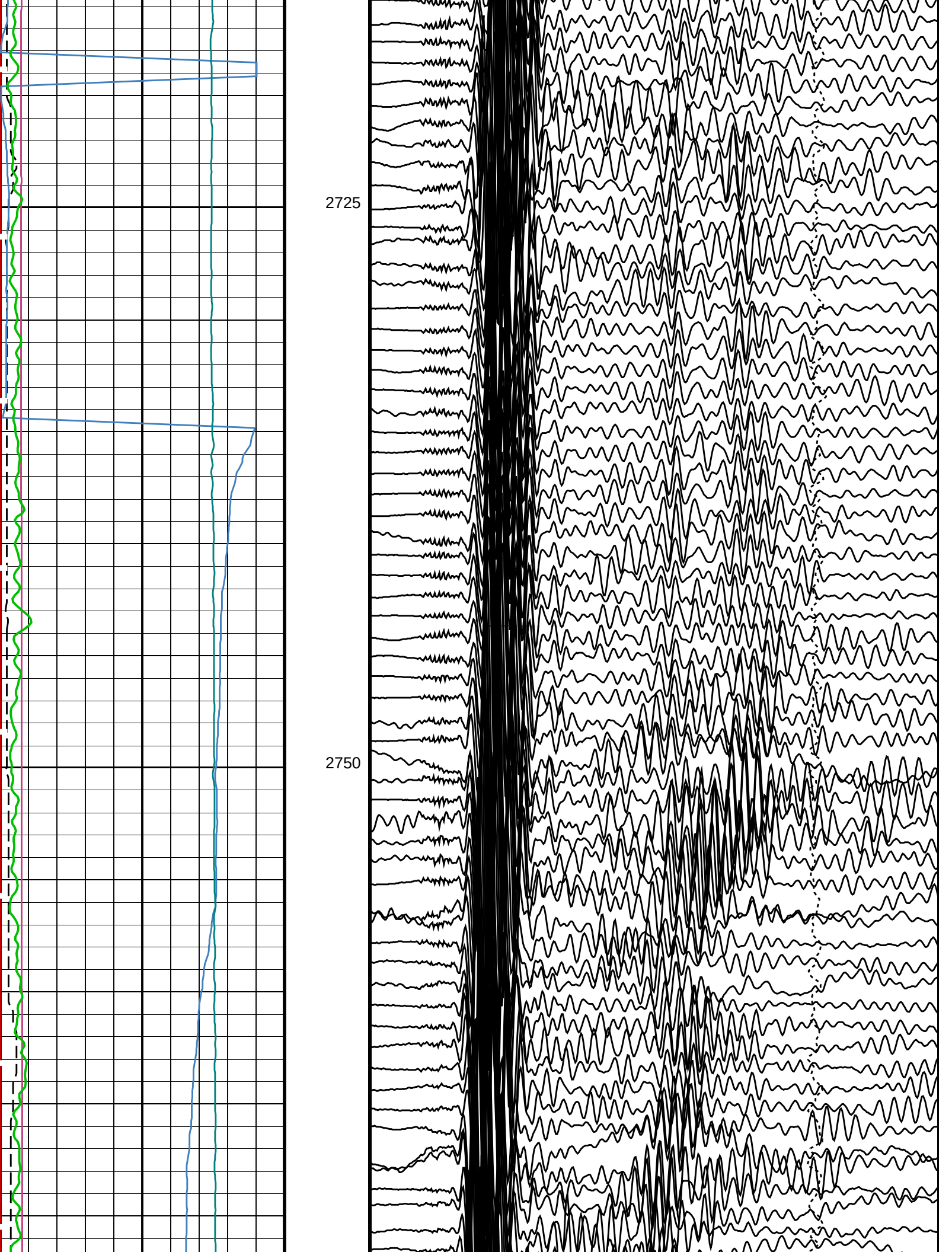
SAMX Waveform Gain (WFGX)
0 (−−−−) 1000

Uplog 1

Tension (TENS)
10000 (LBF) 0

SAMX Waveforms (WFX)
0 (US) 20000

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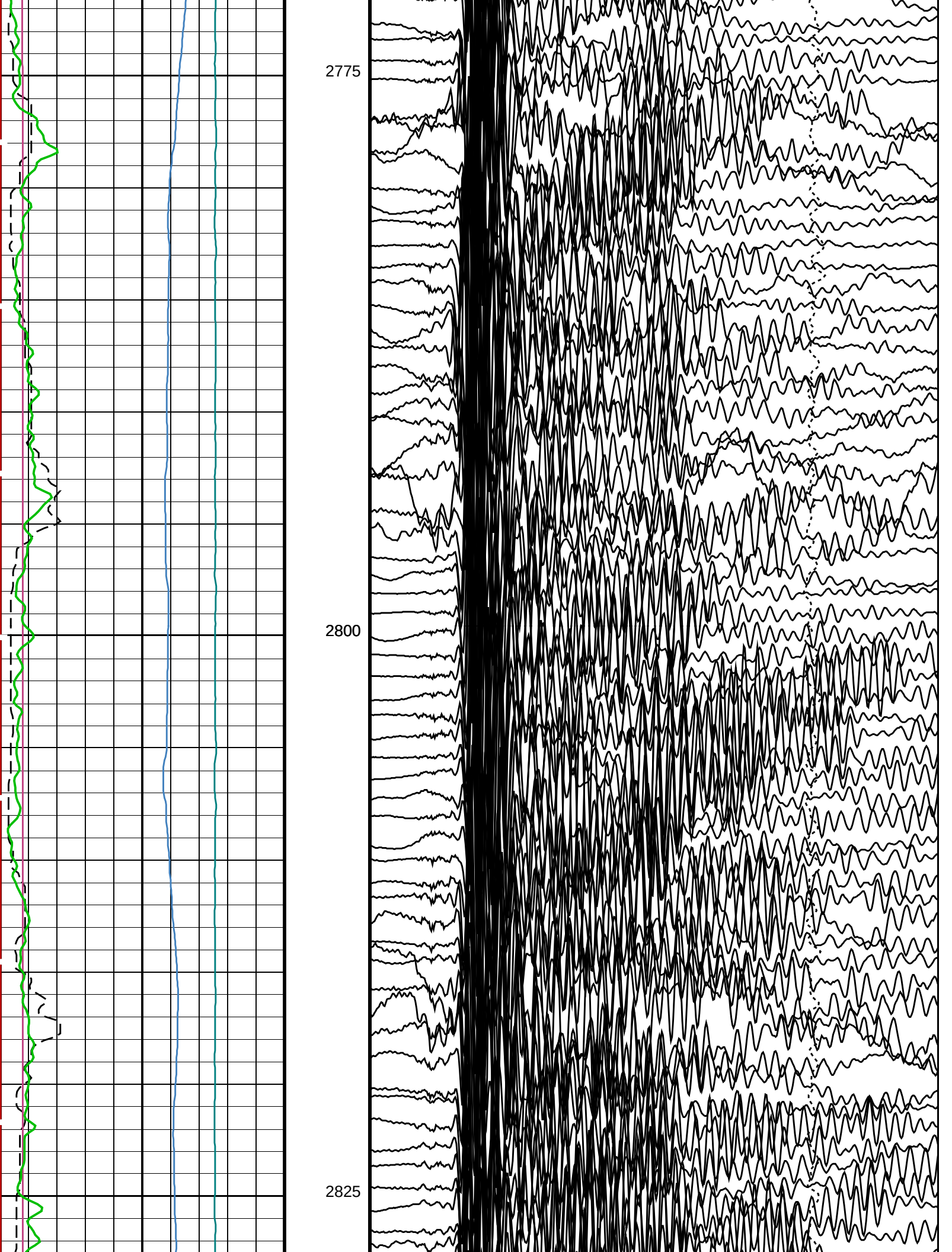
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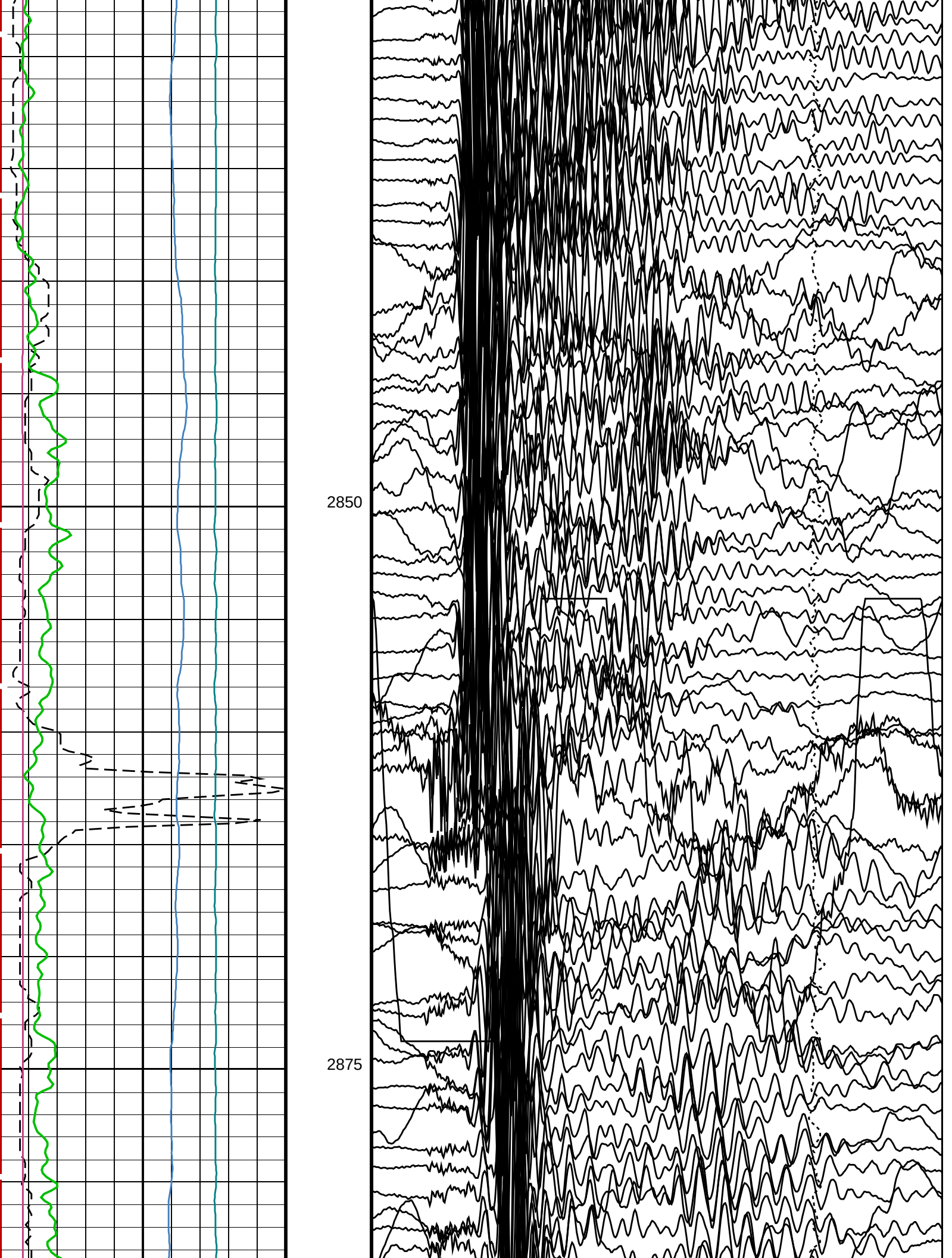
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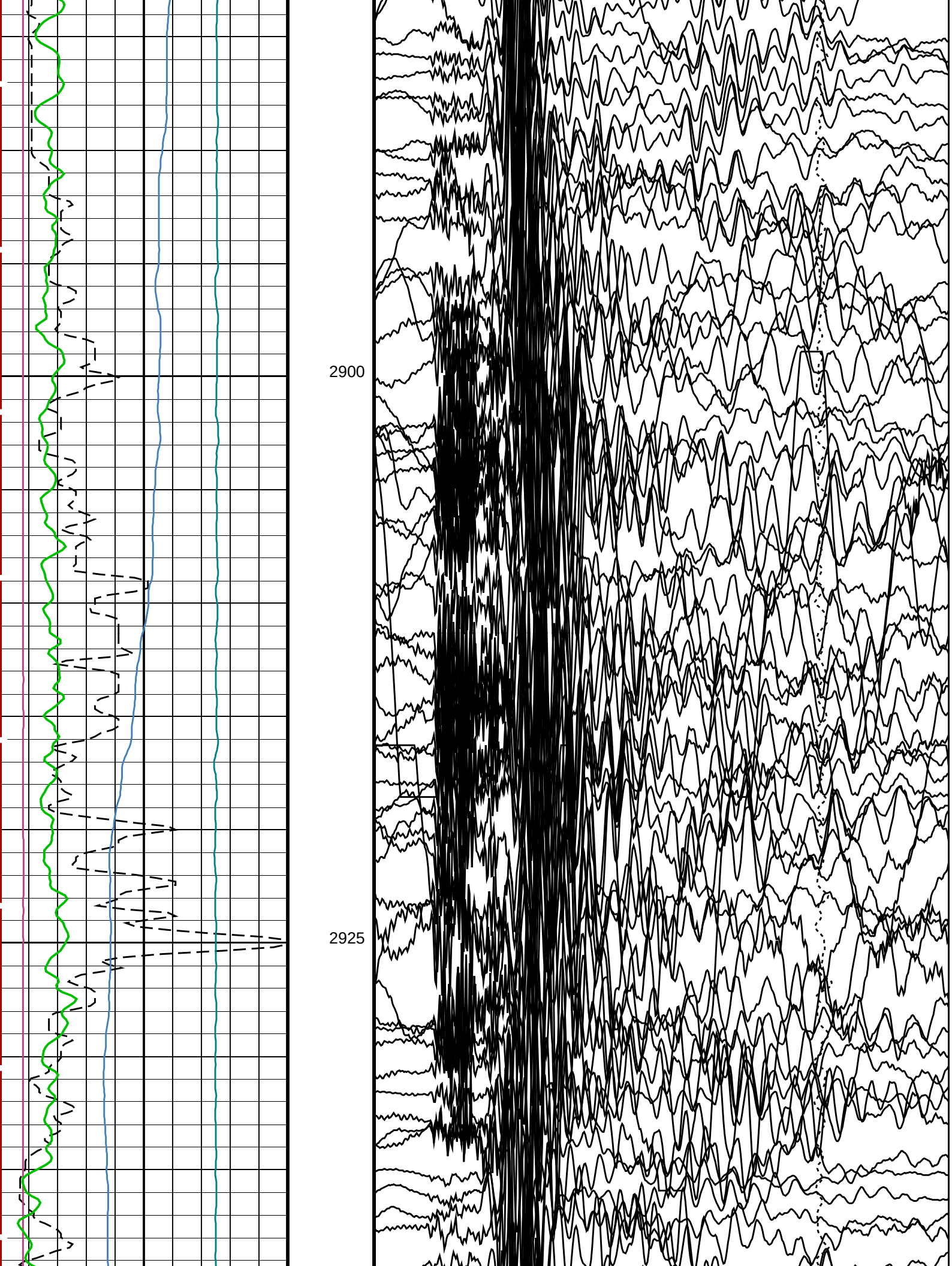
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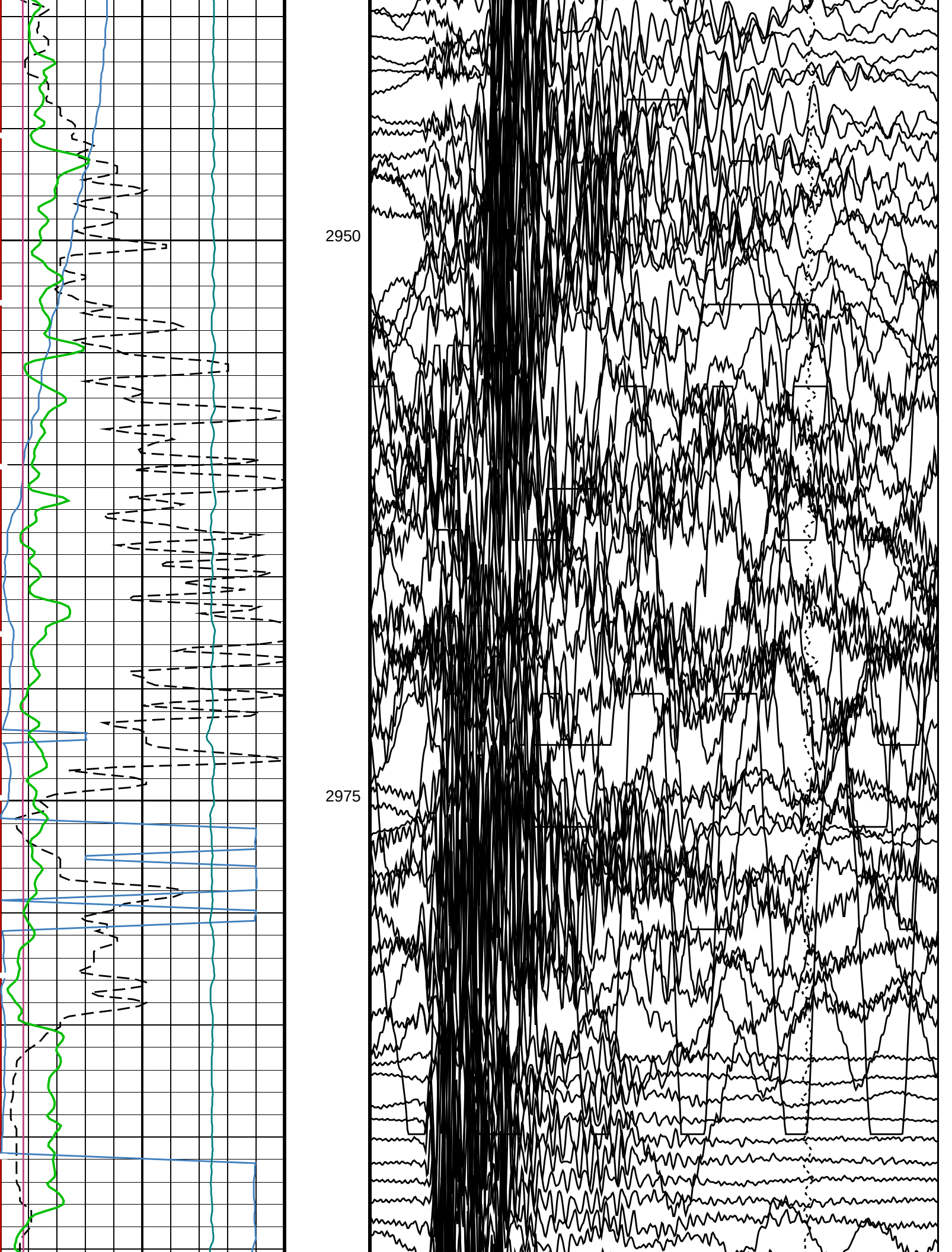
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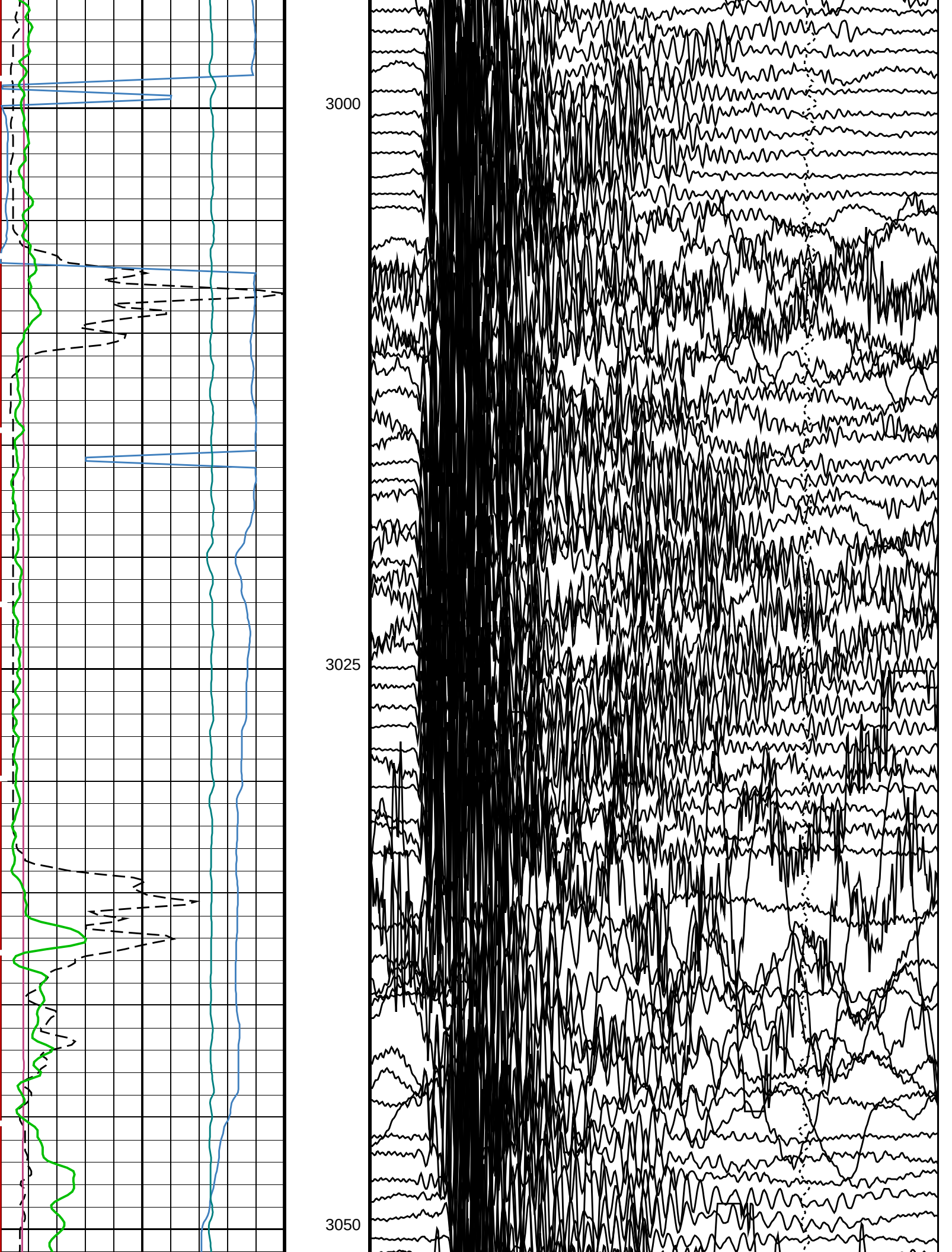
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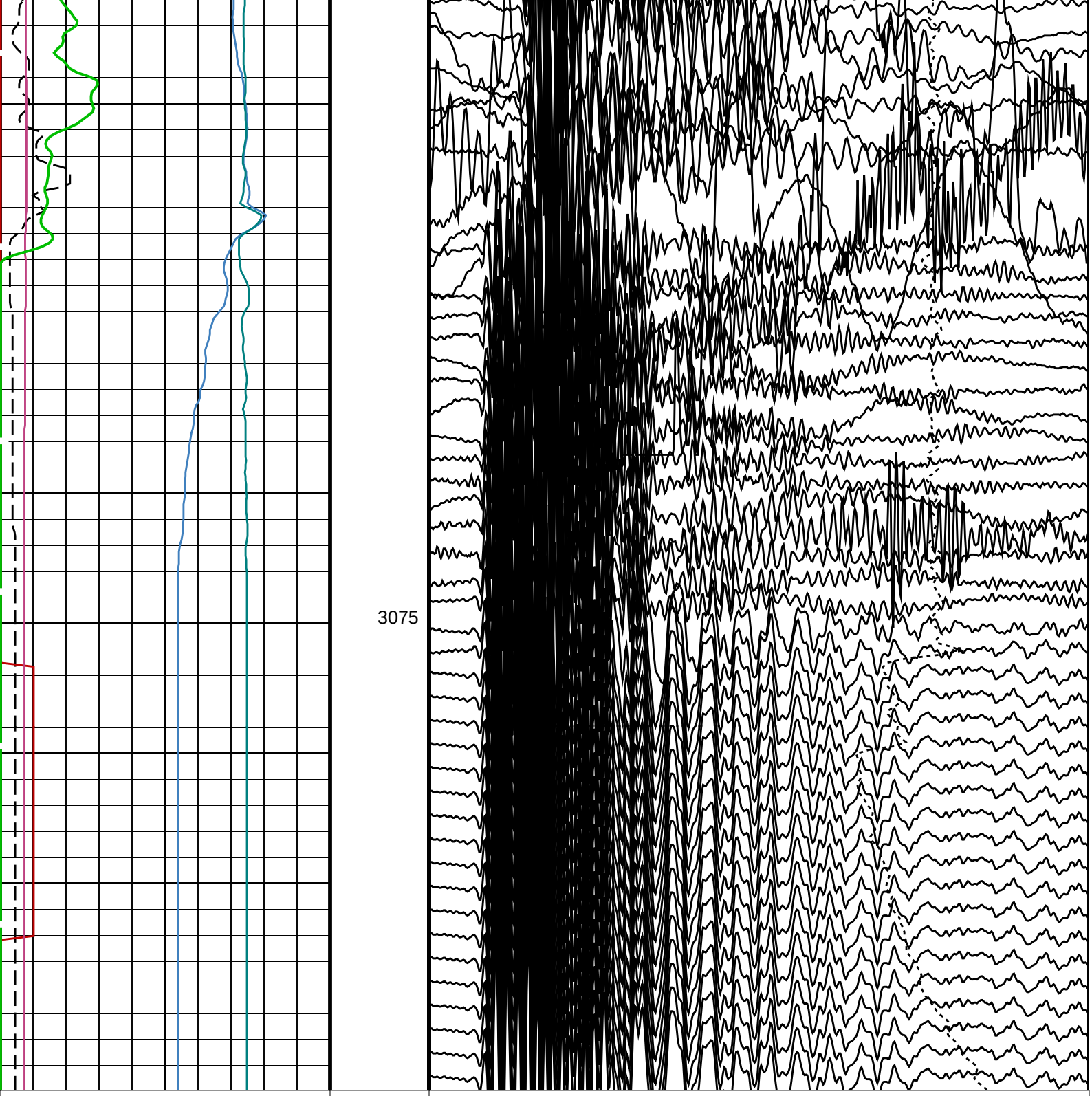


SAMX Waveform Gain (WFGX)
0 (----) 1000

SAMX Waveforms (WFX)
0 (US) 20000

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Uplog 1

Tension (TENS)
10000 (LBF) 0

Waveform Data Copy Indicator X – Expert (WCIX)
0 (----) 10

Azimuth at DSST Waveform Depth (AZWD)
0 (DEG) 400

Relative Bearing at DSST Waveform Depth (RBWD)
0 (DEG) 400

Deviation at DSST Waveform Depth (DVWD)

0 (DEG) 100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MTXG	Monopole Transmitter Geometry	186	IN
NWIX	Number Waveform Items X	32	
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
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert BCR		
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFMX	Waveform Mode X	W1	
	System and Miscellaneous		
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_WFX_WAVES Vertical Scale: 1:200 Graphics File Created: 09−Mar−2022 20:43

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43		

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43	3093.0 M	2696.1 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

Peak Coherence / TA − Upper Dipole

Peak Coherence / RA − Upper Dipole (CHT2)
−2 (−−−−) 8

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

Tension (TENS)
10000 (LBF) 0

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

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Uplog 1

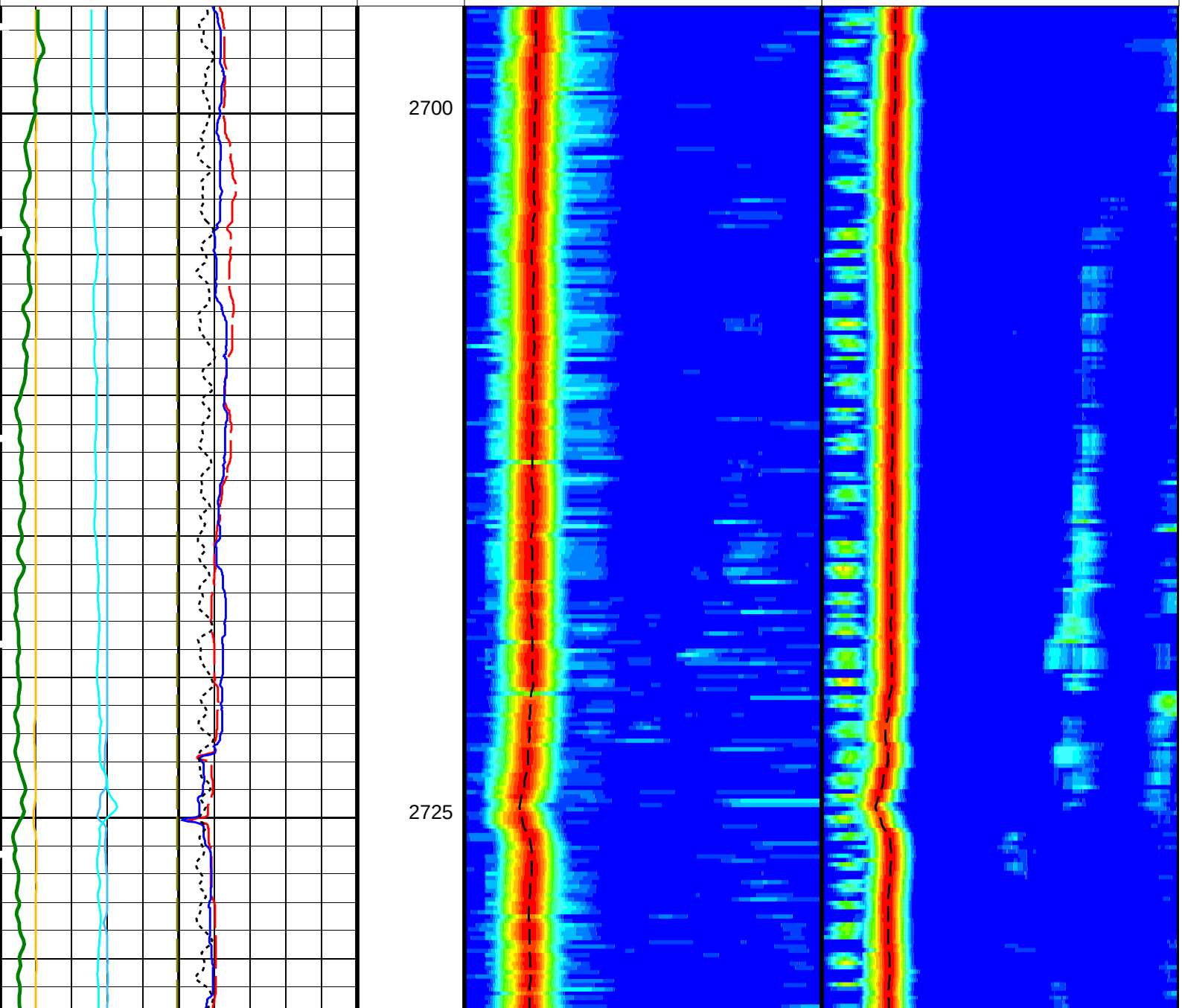
Min Amplitude Max

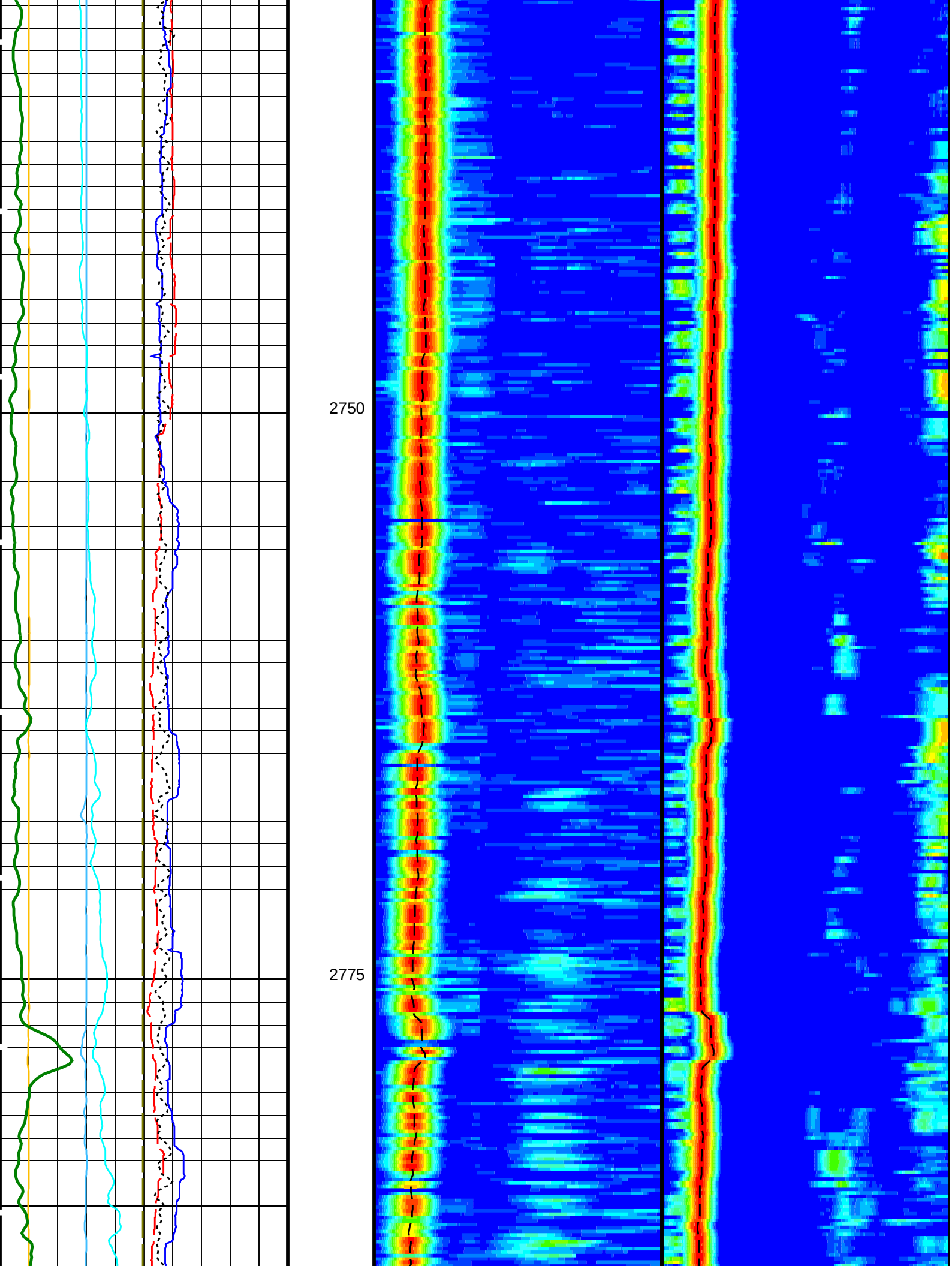
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
40 (US/F) 1400

Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1400

Delta−T Shear / RA − Lower Dipole (DT1R)
40 (US/F) 1400

Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1400

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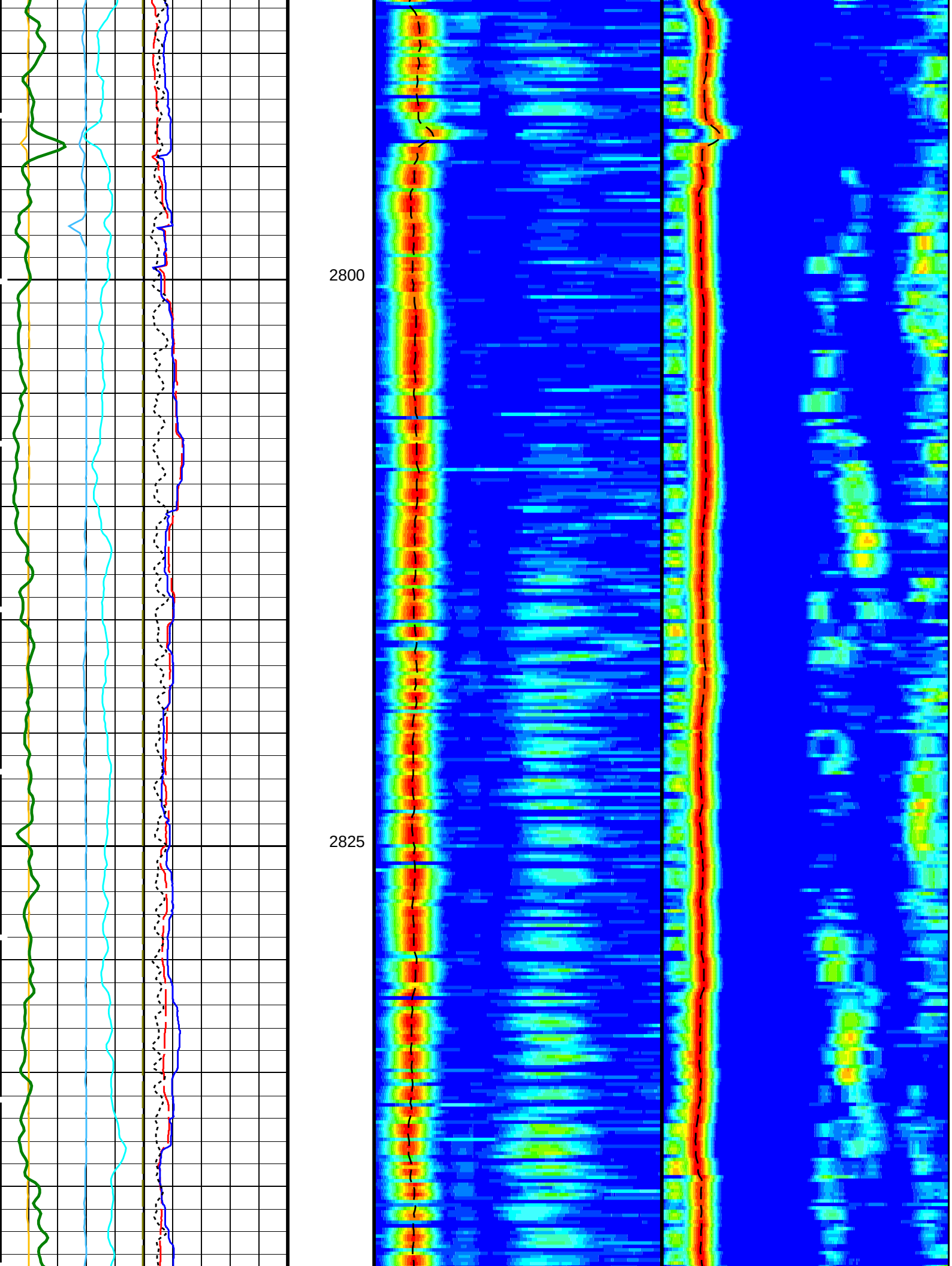
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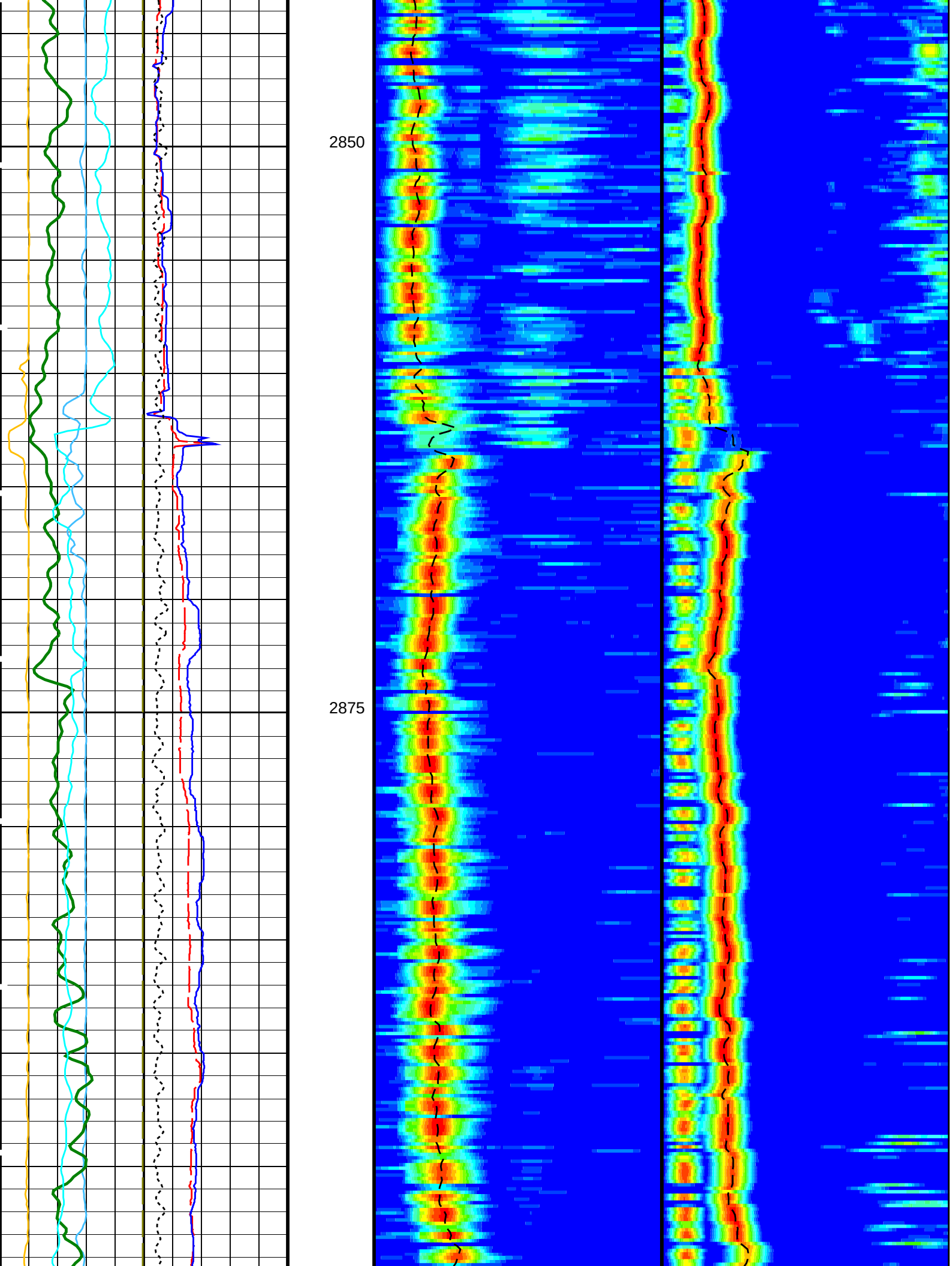
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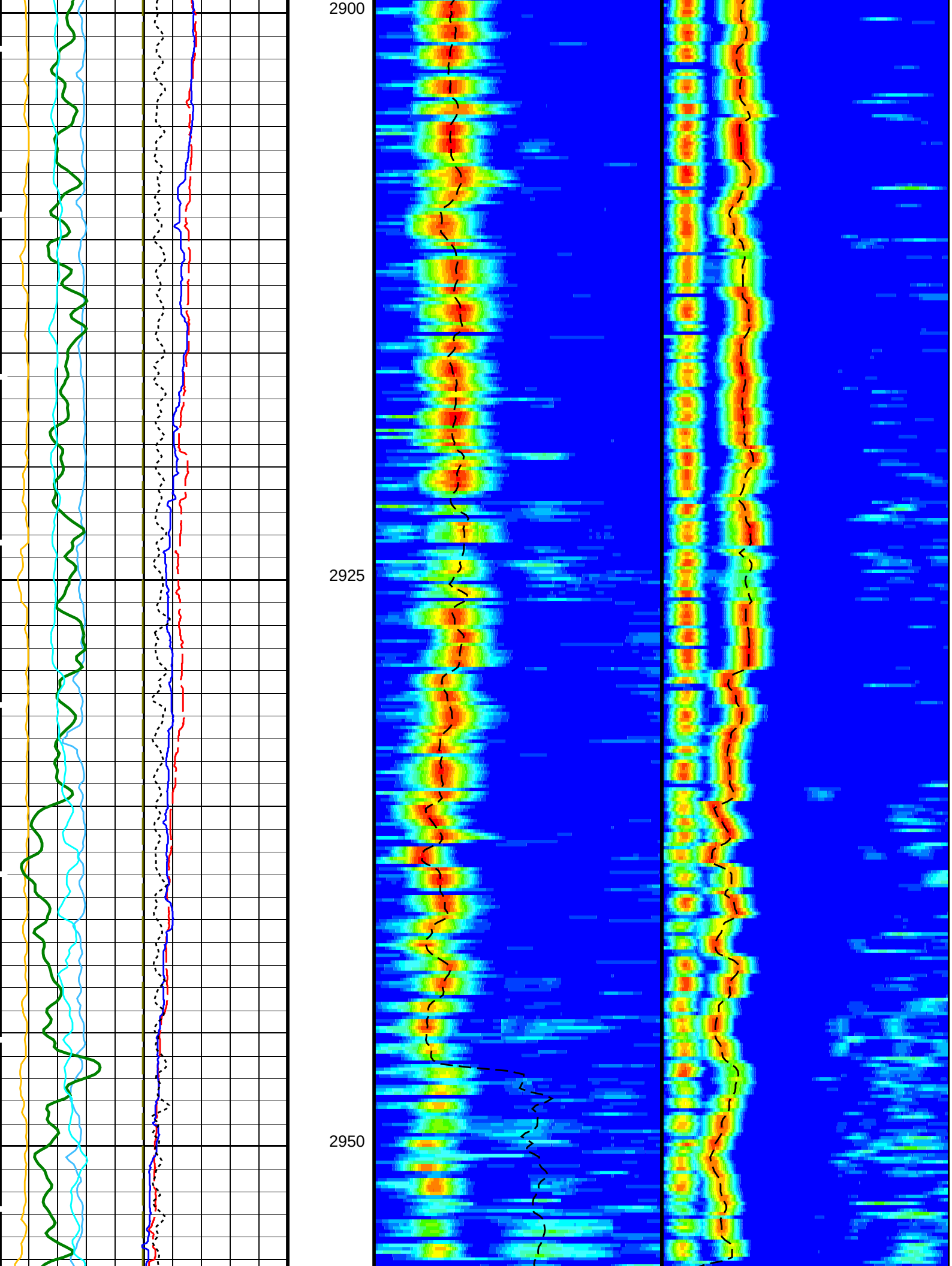
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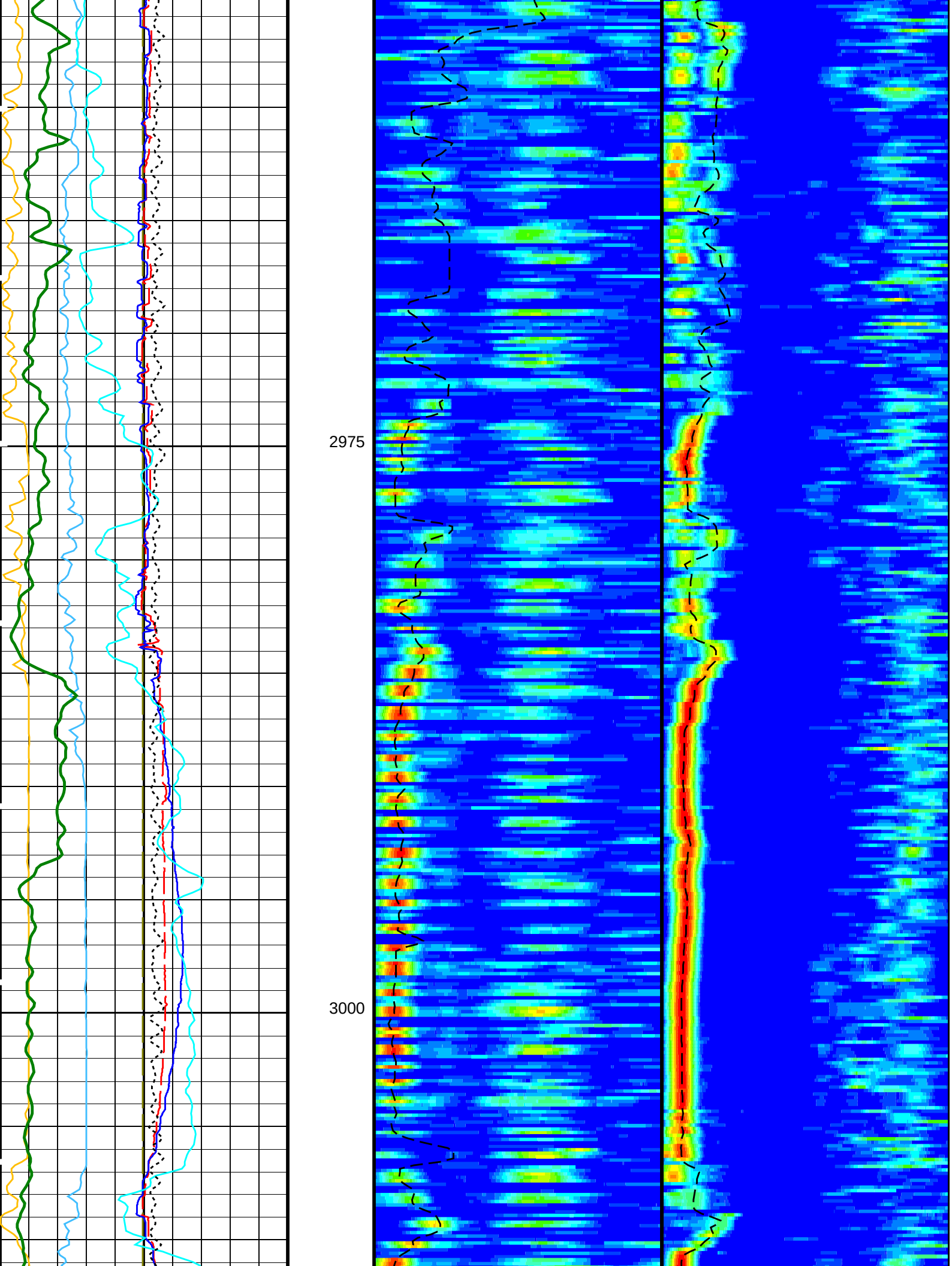
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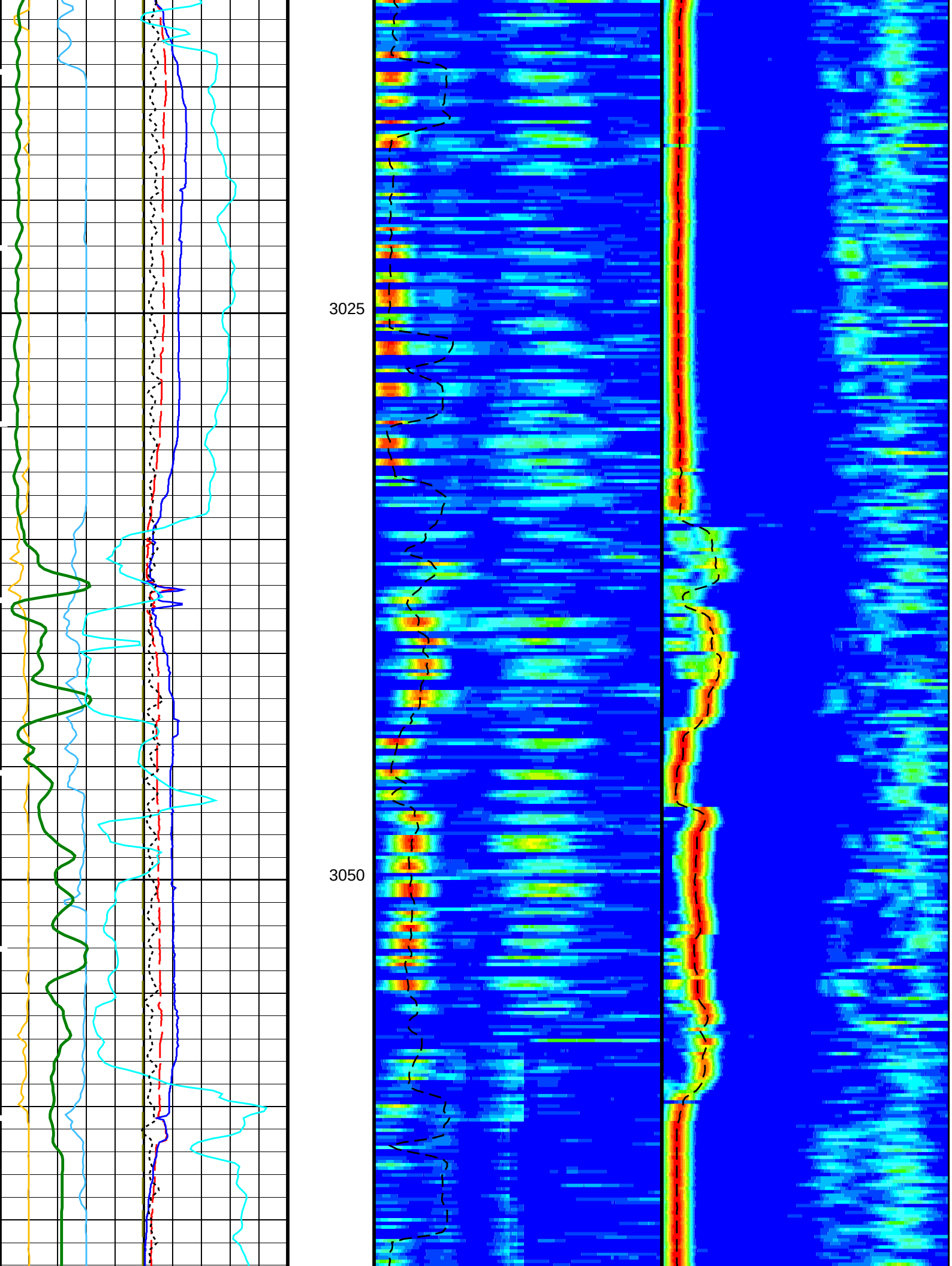
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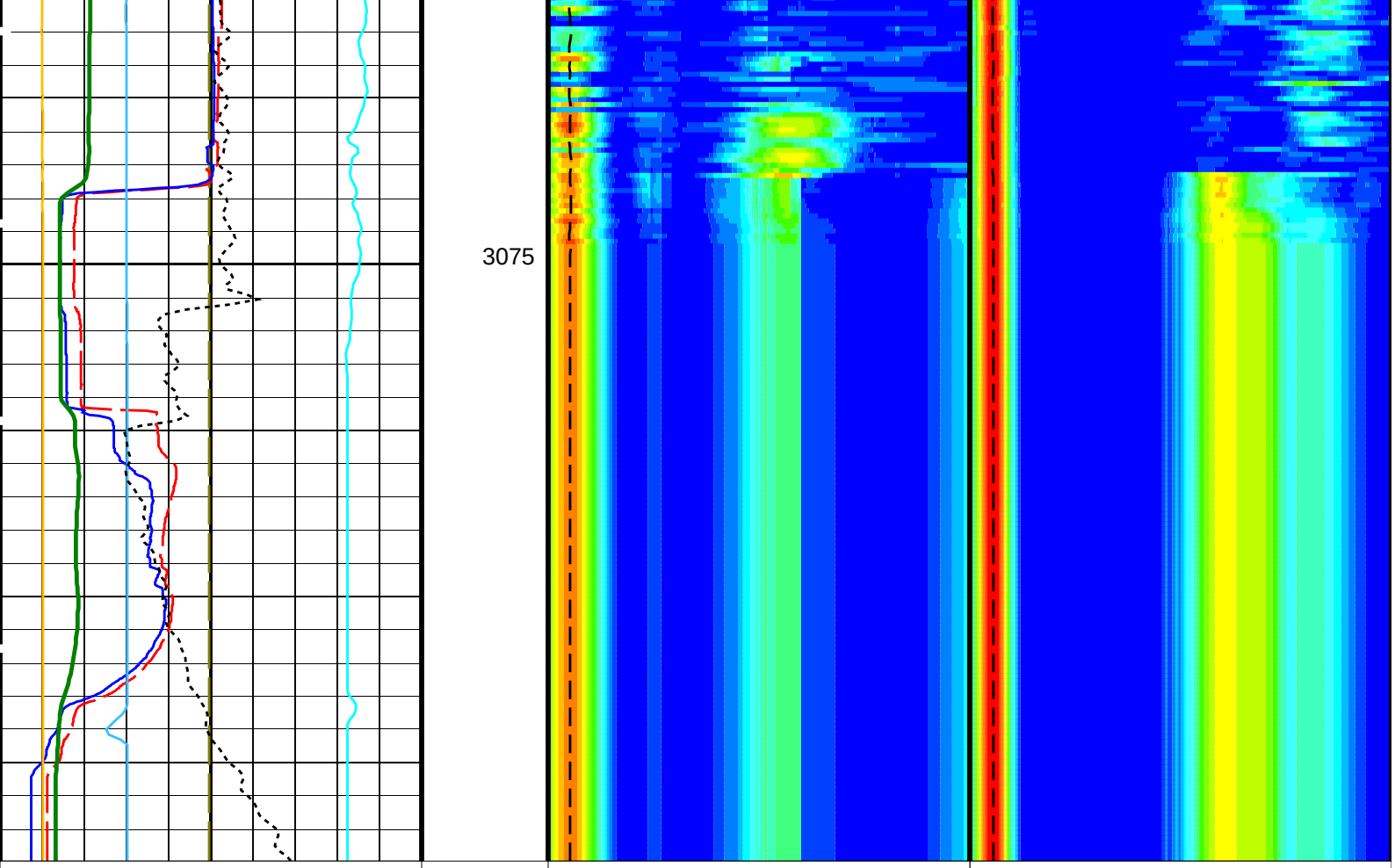


Bit Size (BS)
0 (IN) 20

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)
40 (US/F) 1400

Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1400

Min Amplitude Max

Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
40 (US/F) 1400

Min Amplitude Max

Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1400

Uplog 1

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**	**40**	**US/F**
DSHU	**Label Slowness Upper Limit − Dipole Shear**	**500**	**US/F**
DSI1	**Digitizer Sample Interval 1**	**40**	**US**
DSI2	**Digitizer Sample Interval 2**	**40**	**US**
DSIX	**Digitizer Sample Interval X**	**40**	**US**
DTCS	**Compressional Delta−T Source for DTCO Channel**	**PS_COMP**	
DWC1	**Digitizer Word Count 1**	**512**	
DWC2	**Digitizer Word Count 2**	**512**	
DWCX	**Digitizer Word Count X**	**512**	
GCSE	**Generalized Caliper Selection**	**C1**	
LTXG	**Lower Dipole Transmitter Geometry**	**156**	**IN**
NWI1	**Number Waveform Items 1**	**8**	
NWI2	**Number Waveform Items 2**	**8**	
NWIX	**Number Waveform Items X**	**32**	
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**	**BCR**	
SAS1	**STC Sonic Array Status − Lower Dipole**	**255**	
SAS2	**STC Sonic Array Status − Upper Dipole**	**255**	
SBO1	**STC Search Band Offset − Lower Dipole**	**3000**	**US**
SBO2	**STC Search Band Offset − Upper Dipole**	**3000**	**US**
SBW1	**STC Search Bandwidth − Lower Dipole**	**8000**	**US**
SBW2	**STC Search Bandwidth − Upper Dipole**	**8000**	**US**
SFC1	**STC Formation Character − Lower Dipole**	**SELECTABLE**	
SFC2	**STC Formation Character − Upper Dipole**	**SELECTABLE**	
SFM1	**STC Filter − Lower Dipole**	**B.3−1.5K**	
SFM2	**STC Filter − Upper Dipole**	**B1−2K**	
SLL1	**STC Slowness Lower Limit − Lower Dipole**	**40**	**US/F**
SLL2	**STC Slowness Lower Limit − Upper Dipole**	**40**	**US/F**
SST1	**STC Slowness Step − Lower Dipole**	**4**	**US/F**
SST2	**STC Slowness Step − Upper Dipole**	**4**	**US/F**
SSW1	**STC Source Waveform − Lower Dipole**	**WF_SAM1**	
SSW2	**STC Source Waveform − Upper Dipole**	**WF_SAM2**	
SUL1	**STC Slowness Upper Limit − Lower Dipole**	**1400**	**US/F**
SUL2	**STC Slowness Upper Limit − Upper Dipole**	**1400**	**US/F**
SWD1	**STC Slowness Width − Lower Dipole**	**40**	**US/F**
SWD2	**STC Slowness Width − Upper Dipole**	**40**	**US/F**
TBF1	**STC Time for Baseline Fill − Lower Dipole**	**0**	**US**
TBF2	**STC Time for Baseline Fill − Upper Dipole**	**0**	**US**
TLL1	**STC Time Lower Limit − Lower Dipole**	**600**	**US**
TLL2	**STC Time Lower Limit − Upper Dipole**	**600**	**US**
TST1	**STC Time Step − Lower Dipole**	**200**	**US**
TST2	**STC Time Step − Upper Dipole**	**200**	**US**
TUL1	**STC Time Upper Limit − Lower Dipole**	**20440**	**US**
TUL2	**STC Time Upper Limit − Upper Dipole**	**20440**	**US**
TWD1	**STC Time Width − Lower Dipole**	**2000**	**US**
TWD2	**STC Time Width − Upper Dipole**	**2000**	**US**
TWI1	**STC Integration Time Window − Lower Dipole**	**1600**	**US**
TWI2	**STC Integration Time Window − Upper Dipole**	**1600**	**US**
TWSX	**Transmitter Waveform Select X**	**0**	
UTXG	**Upper Dipole Transmitter Geometry**	**162**	**IN**
HNGS−BA: Hostile Natural Gamma Ray Sonde			
BAR1	**HNGS Detector 1 Barite Constant**	**1**	
BAR2	**HNGS Detector 2 Barite Constant**	**1**	
BHK	**HNGS Borehole Potassium Correction Concentration**	**0**	
BHS	**Borehole Status**	**OPEN**	
CSD1	**Inner Casing Outer Diameter**	**0**	**IN**
CSD2	**Outer Casing Outer Diameter**	**0**	**IN**
CSW1	**Inner Casing Weight**	**0**	**LB/F**
CSW2	**Outer Casing Weight**	**0**	**LB/F**
DBCC	**HNGS Barite Constant Correction Flag**	**NONE**	
GCSE	**Generalized Caliper Selection**	**C1**	
H1P	**HNGS Detector 1 Allow/Disallow In Processing**	**ALLOW**	
H2P	**HNGS Detector 2 Allow/Disallow In Processing**	**ALLOW**	
HABK	**HNGS Borehole Potassium Running Average**	**−0.001218**	
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	1.02489	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05812	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	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: 09−Mar−2022 20:43

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43		

Company: International Ocean Discovery Program Well: Expedition 392, Site U1580A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43	3093.0 M	2696.1 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

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

Caliper 2 (C2)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Uplog 1

Min Amplitude Max

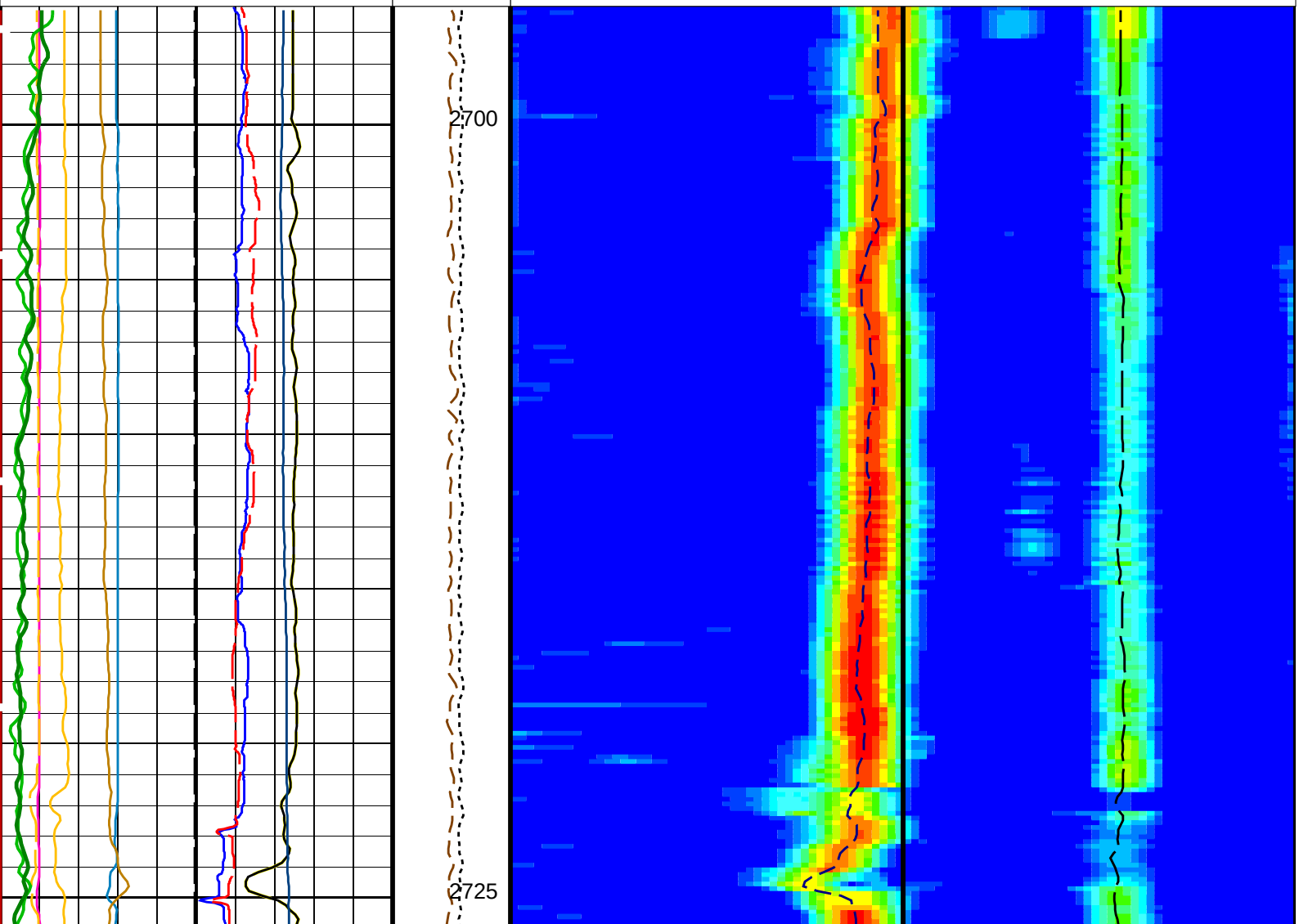
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

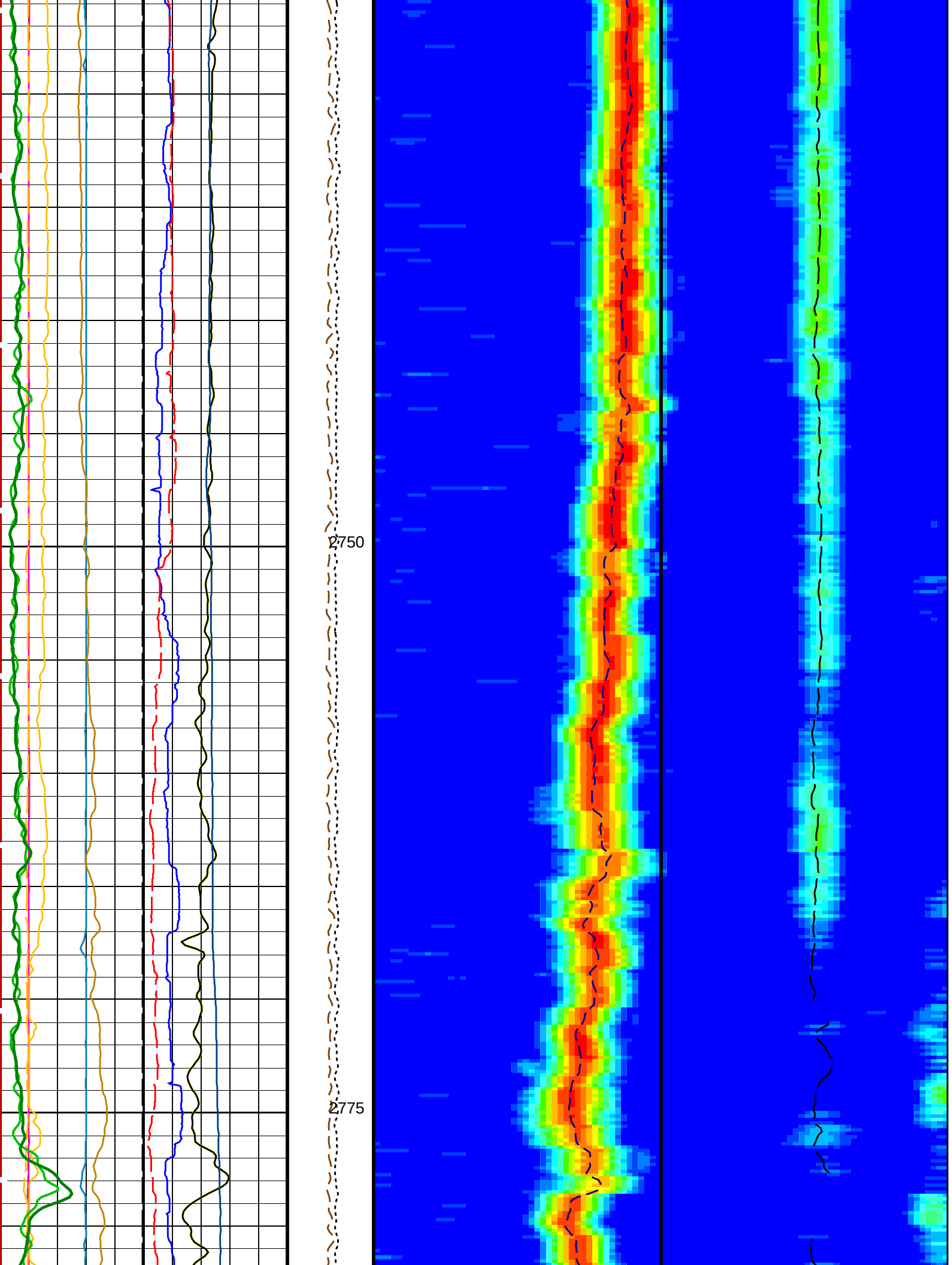
Calibrated Downhole Force (CDF) (LBF)
3000 0

Tension (TENS) (LBF)
10000 0

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

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

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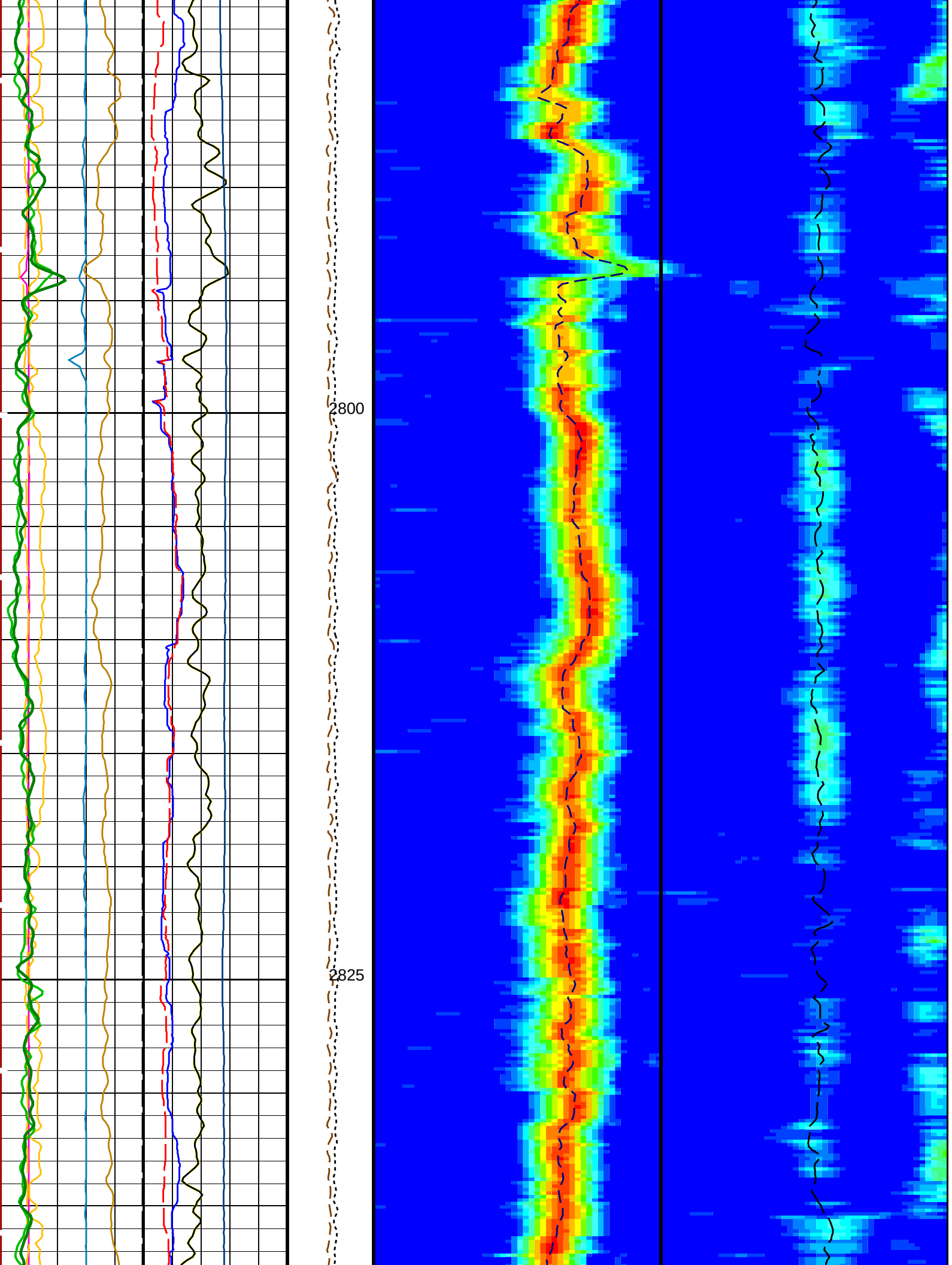
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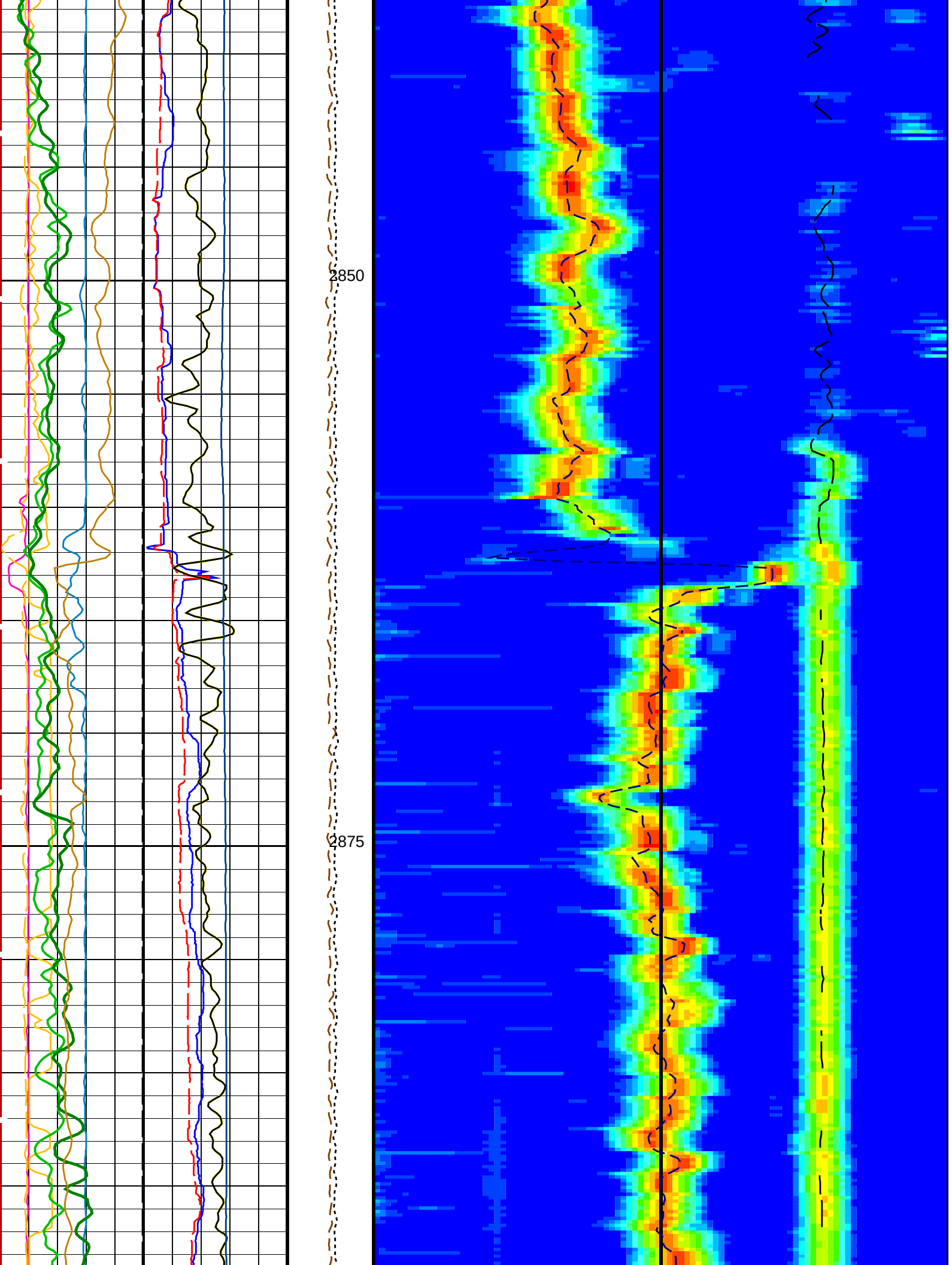
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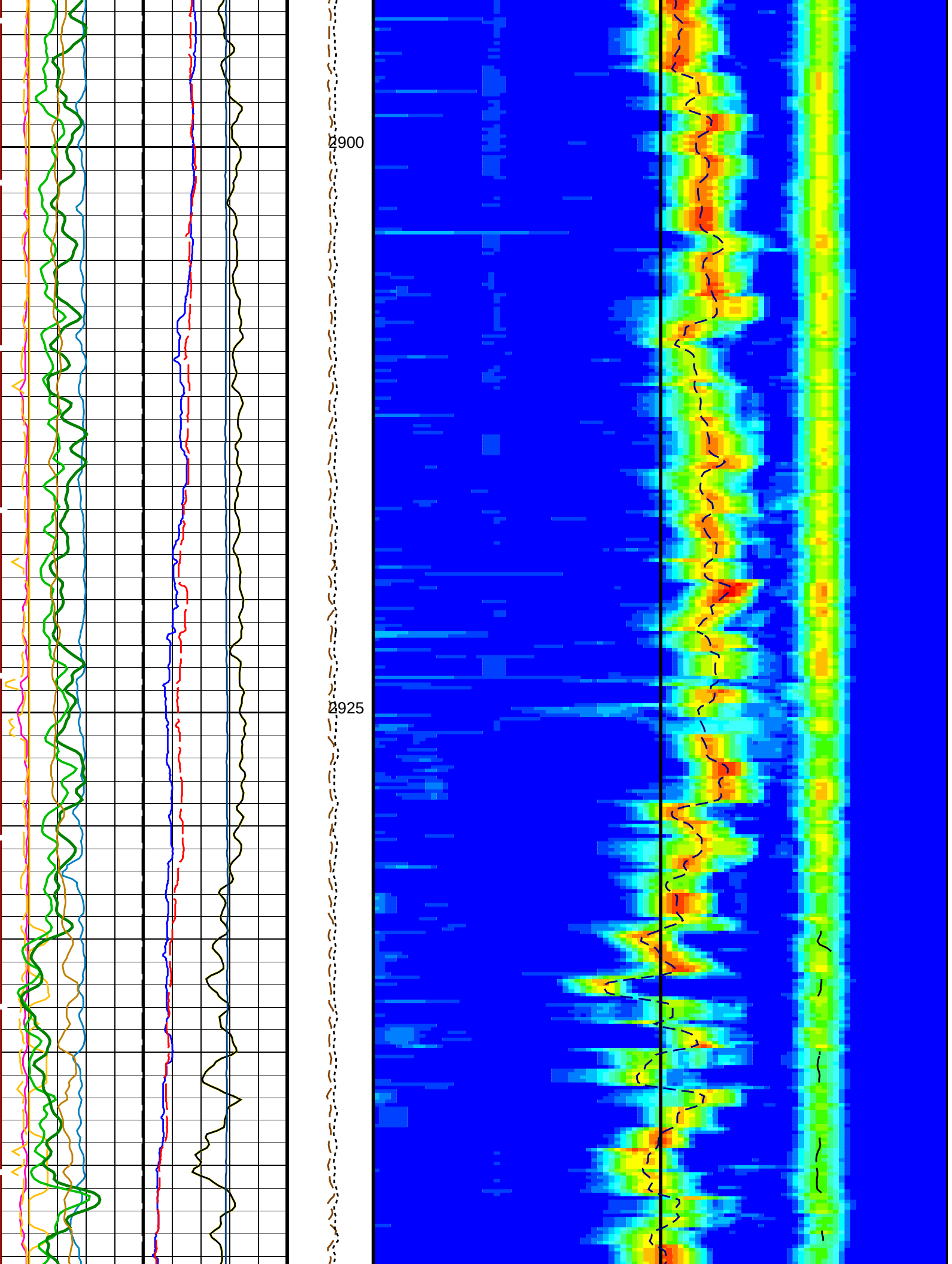
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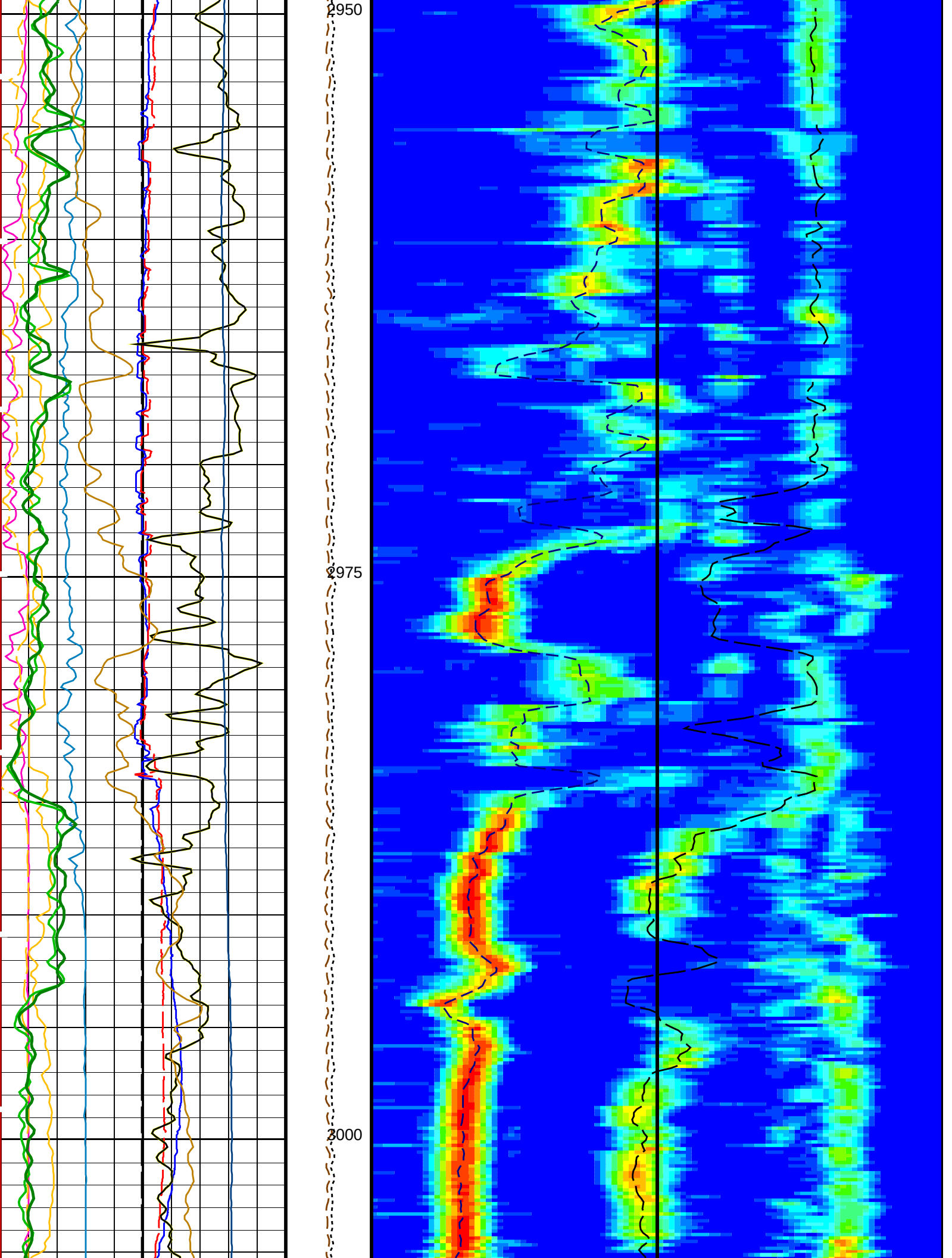
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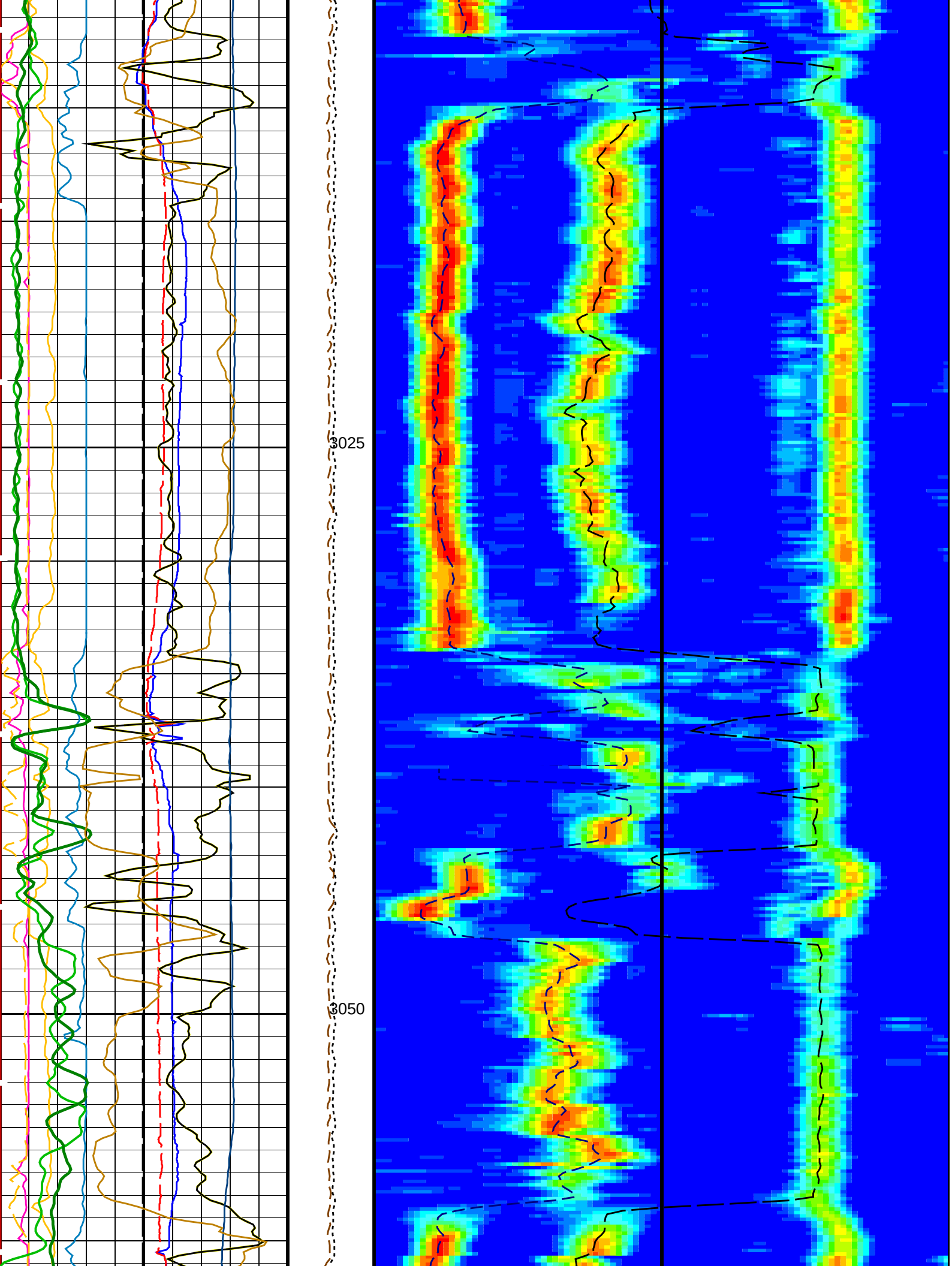
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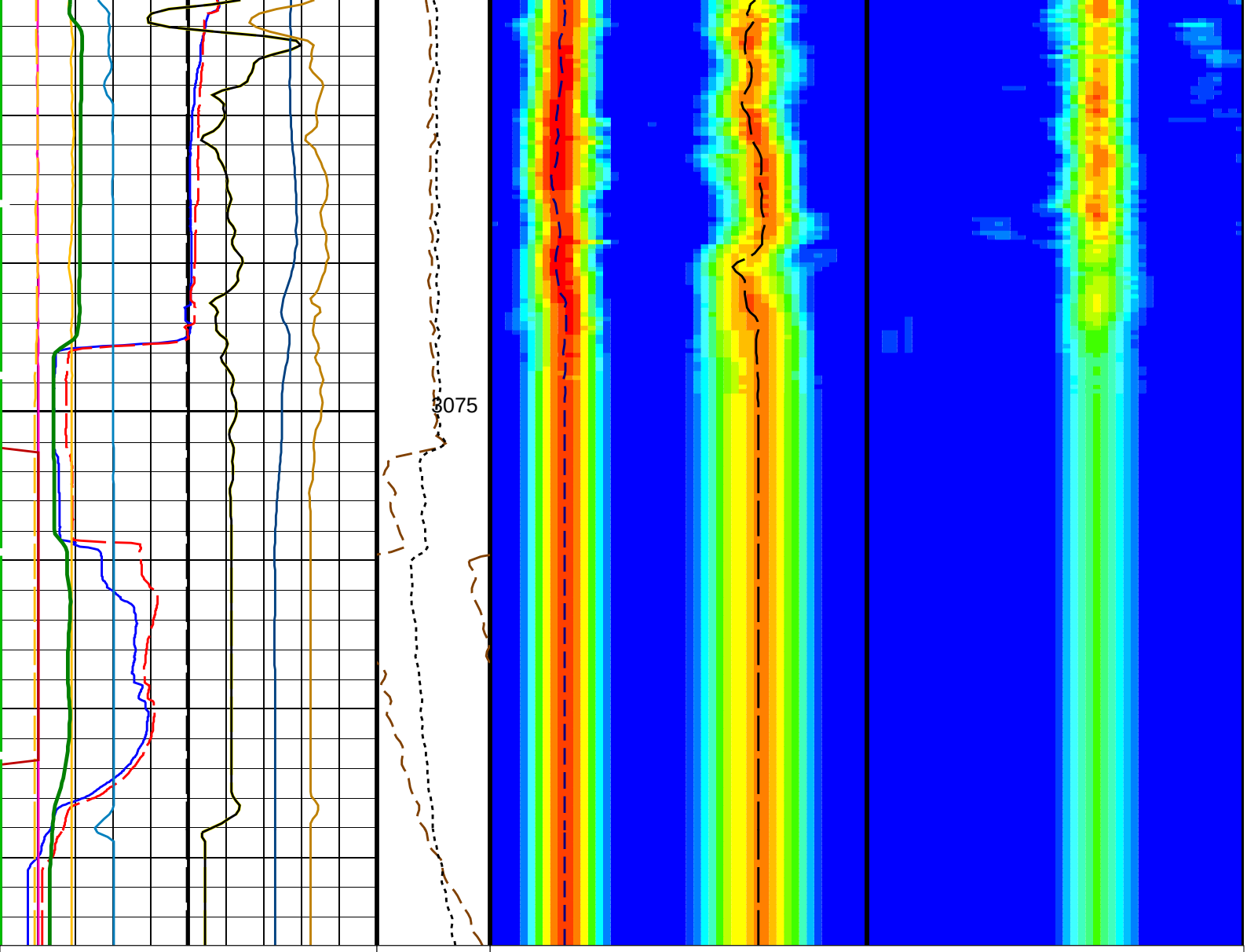


Bit Size (BS)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Tension (TENS) (LBF)
10000 0

Calibrated Downhole Force (CDF) (LBF)
3000 0

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

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

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

Uplog 1

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

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	−35.0569	DEG
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	55	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	130	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	40	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	500	US/F
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DTF	Delta−T Fluid	212	US/F
DTSS	Shear Delta−T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	32	
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	BCR	
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	90	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	200	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	
	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	−0.001218	
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	1.02489	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05812	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	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: 09−Mar−2022 20:43**

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_062PUP	FN:84	PRODUCER	09−Mar−2022 20:43		

Company: International Ocean Discovery Program **Well: Expedition 392, Site U1579 A**

Output DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M
BACKUP	FMS_DSI_NGS_030LUP	FN:42	PRODUCER	06−Mar−2022 10:51	3093.0 M	2696.0 M

OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

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

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Bit Size (BS)
0 (IN) 20

Relative Bearing (RB_MEST)
−40 (DEG) 360

Pad One Azimuth (P1AZ_MEST)
−40 (DEG) 360

Hole Azimuth (HAZIM)
−40 (DEG) 360

Deviation (DEVIM)
0 (DEG) 10

Caliper 2 (C2)
0 (IN) 20

EMEX Intensity (EI)
0 (AMPS) 10

Caliper 1 (C1)
0 (IN) 20

EMEX Voltage (EV)
0 (V) 50

Data Button 8 − Varies with RBS (U−MEST_RB8)
−80 (−−−−) 20

Data Button 7 − Varies with RBS (U−MEST_RB7)
−70 (−−−−) 30

Data Button 6 − Varies with RBS (U−MEST_RB6)
−60 (−−−−) 40

Data Button 5 − Varies with RBS (U−MEST_RB5)
−50 (−−−−) 50

Data Button 4 − Varies with RBS (U−MEST_RB4)
−40 (−−−−) 60

Data Button 3 − Varies with RBS (U−MEST_RB3)
−30 (−−−−) 70

Data Button 2 − Varies with RBS (U−MEST_RB2)
−20 (−−−−) 80

Data Button 1 − Varies with RBS (U−MEST_RB1)
−10 (−−−−) 90

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
MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU)
(−−−−)

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
MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU)
(−−−−)

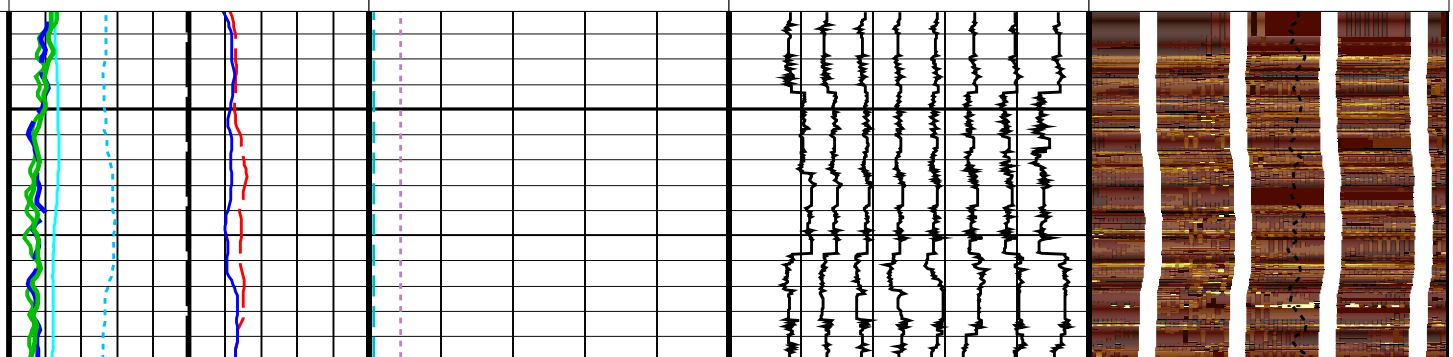
0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086
MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU)
(−−−−)

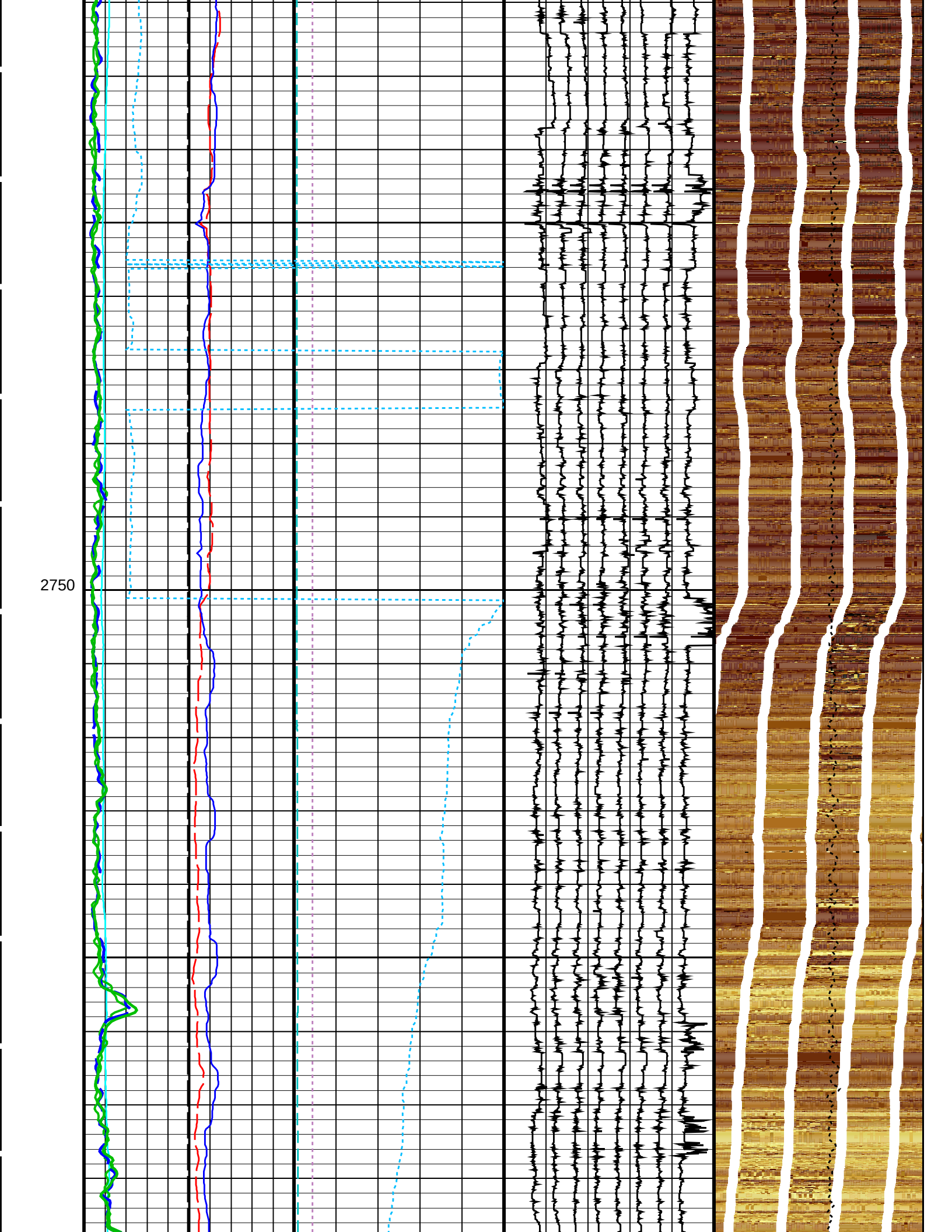
0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086
MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU)
(−−−−)

Tension (TENS)
10000 (LBF) 0

Uplog1

2700

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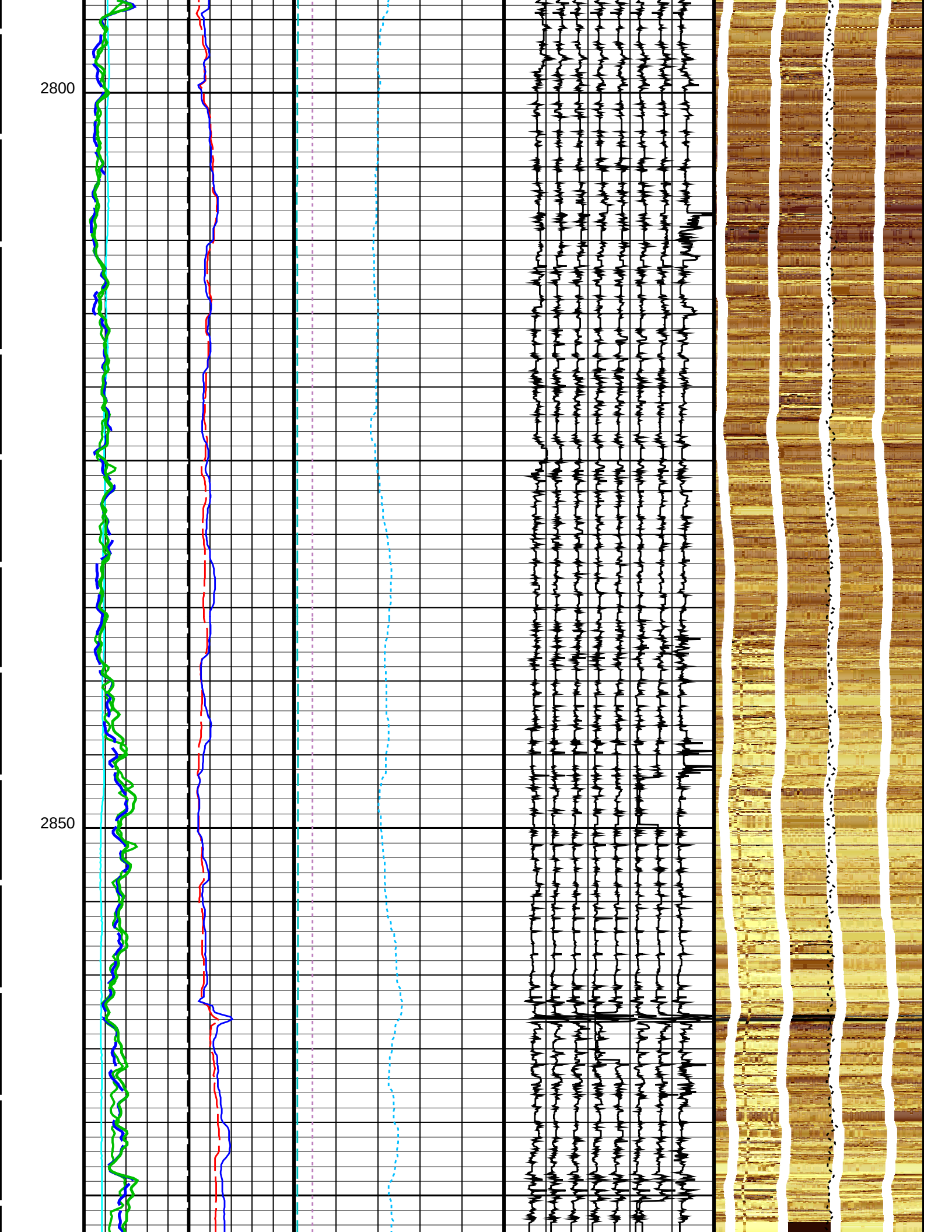
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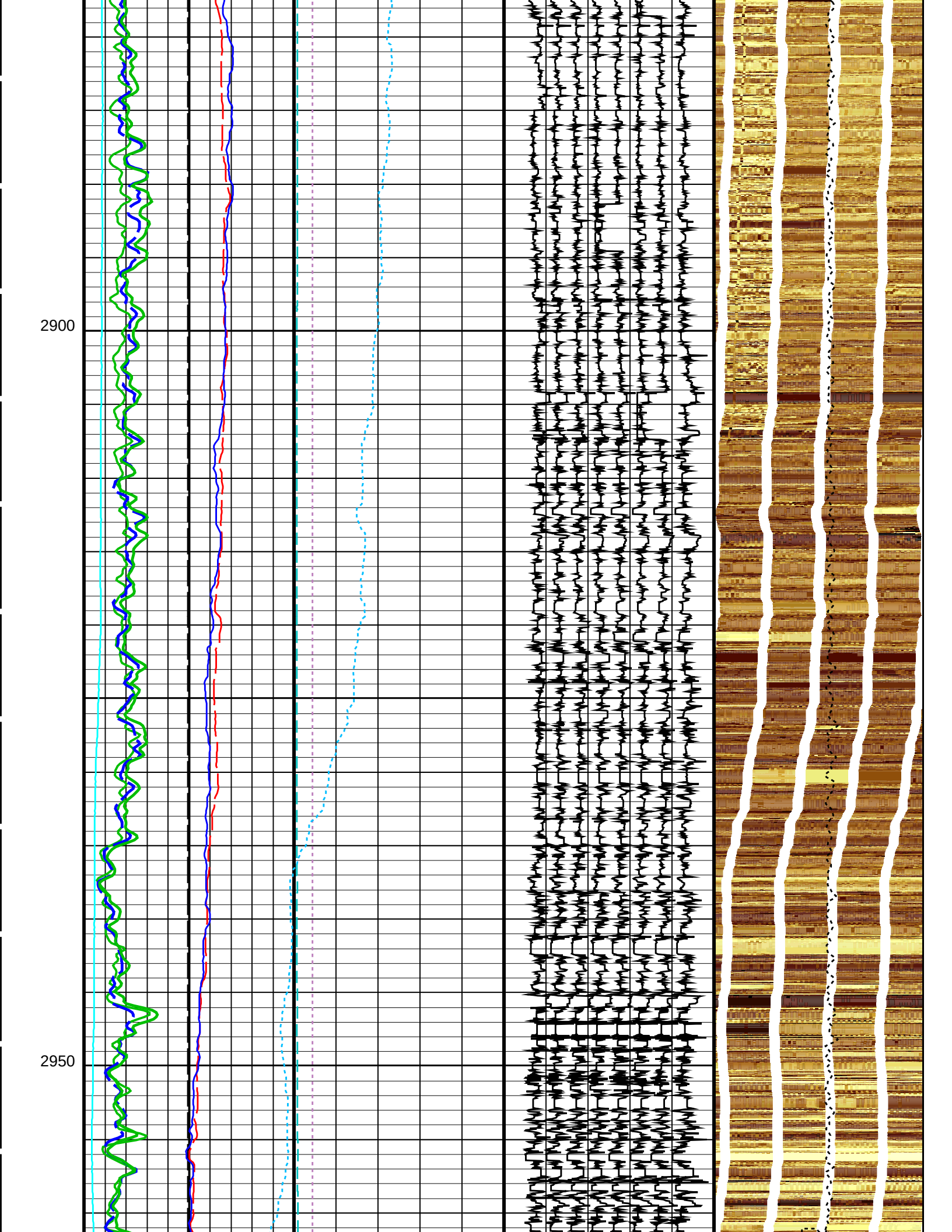
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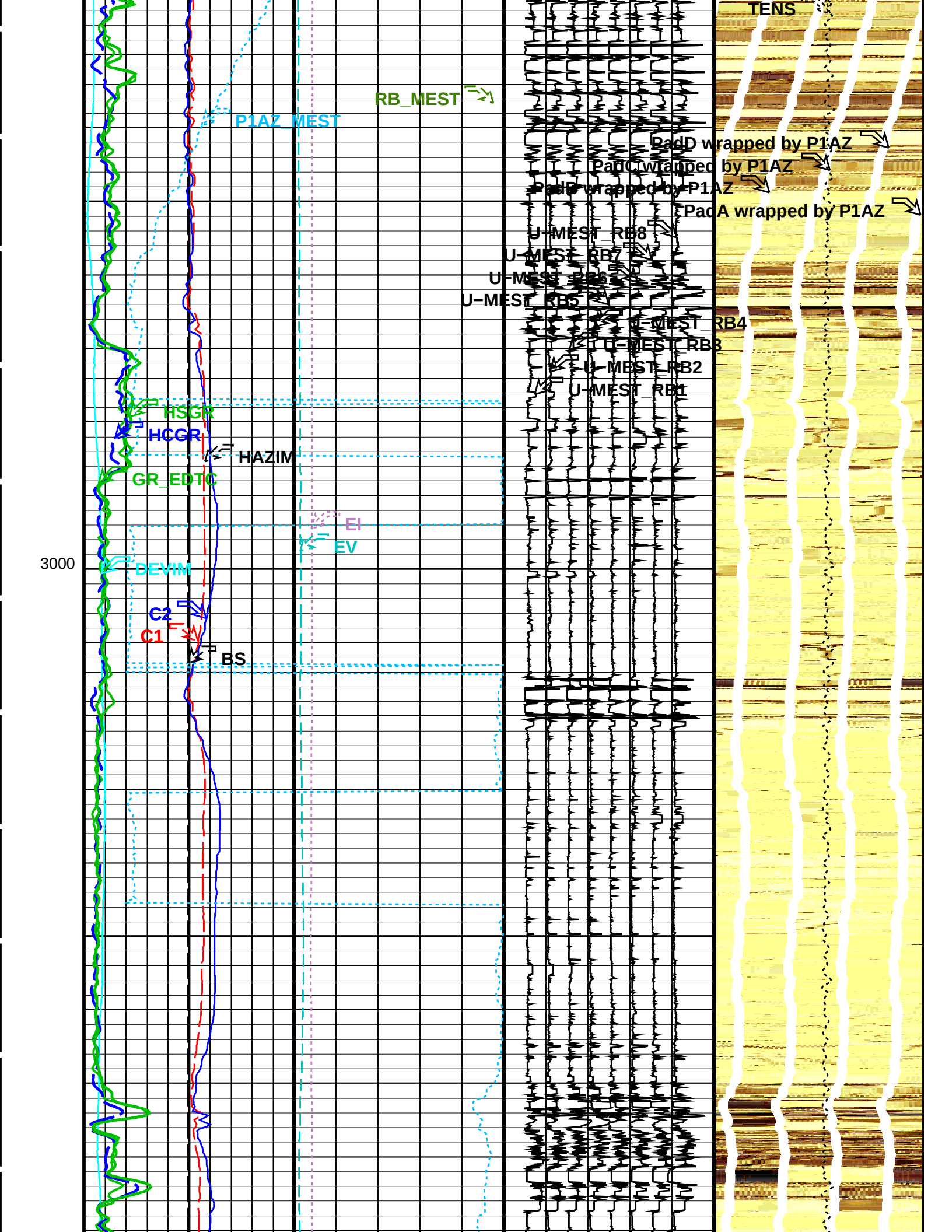
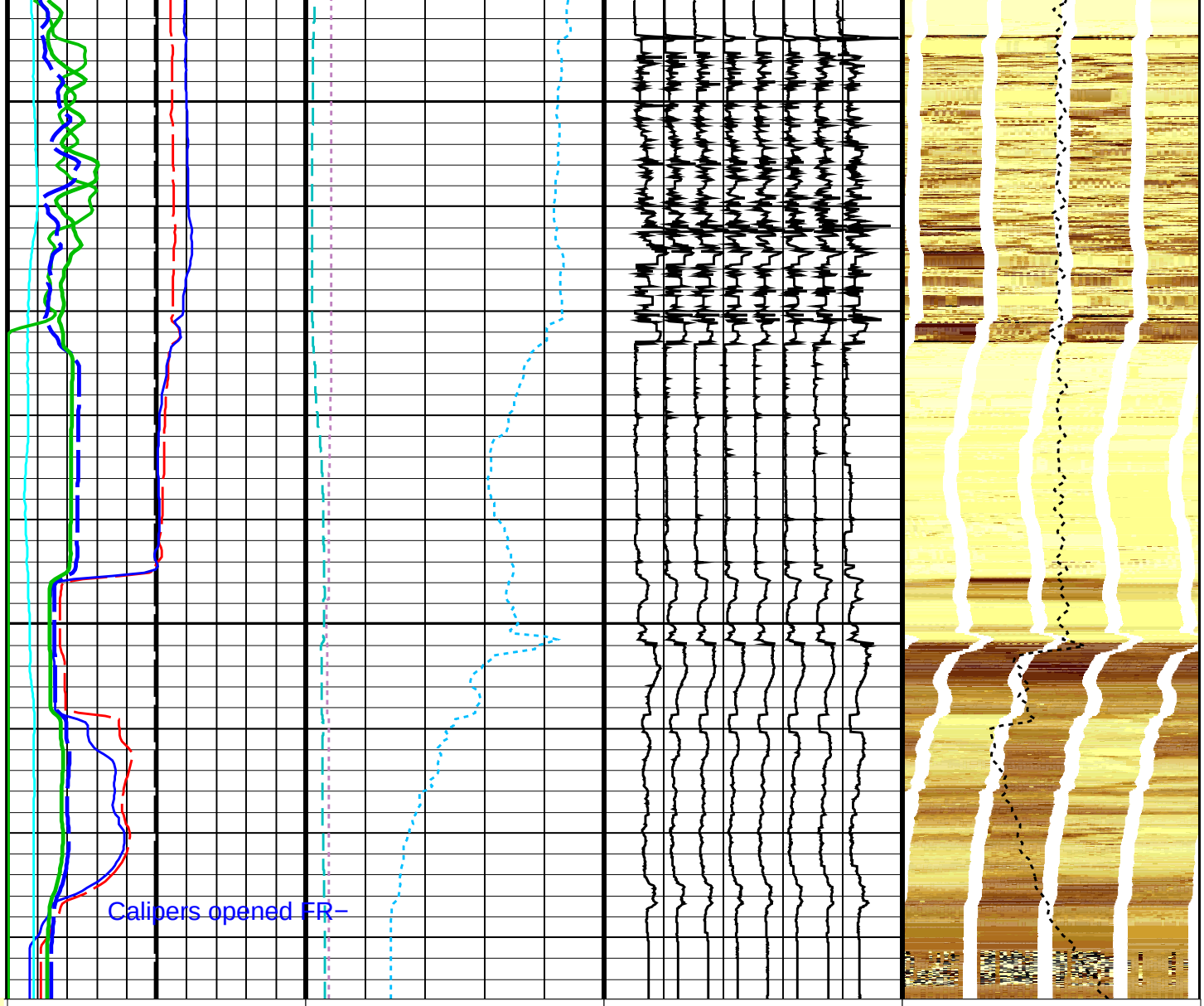

TENS
RB_MEST
P1AZ_MEST
PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
U-MEST_RB1
HSGR
HCGR
HAZIM
GR_EDTC
EI
EV
3000
DEVIM
C2
C1
BS



Uplog1

Caliper 1 (C1) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90	Tension (TENS) 10000 (LBF) 0
Caliper 2 (C2) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	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 MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU) (−−−−)
Deviation (DEVIM) 0 (DEG) 10		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	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 MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU) (−−−−)
Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	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 MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU) (−−−−)
Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	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 MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU) (−−−−)
		Data Button 6 − Varies with	

Relative Bearing (RB_MEST)		
−40	(DEG)	360

Bit Size (BS)		
0	(IN)	20

Gamma Ray (GR_EDTC)		
0	(GAPI)	100

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

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

RBS (U−MEST_RB6)		
−60	(−−−−)	40

Data Button 7 − Varies with RBS (U−MEST_RB7)		
−70	(−−−−)	30

Data Button 8 − Varies with RBS (U−MEST_RB8)		
−80	(−−−−)	20

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	−35.0569	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
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	−0.00159904	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma−Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	−0.765582	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.833482	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:300 Graphics File Created: 06−Mar−2022 10:51

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	EDTC−B	SKK−5169−EDTCB

Output DLIS Files

Output DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:41	PRODUCER	06−Mar−2022 10:51		
BACKUP	FMS_DSI_NGS_030LUP	FN:42	PRODUCER	06−Mar−2022 10:51		

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

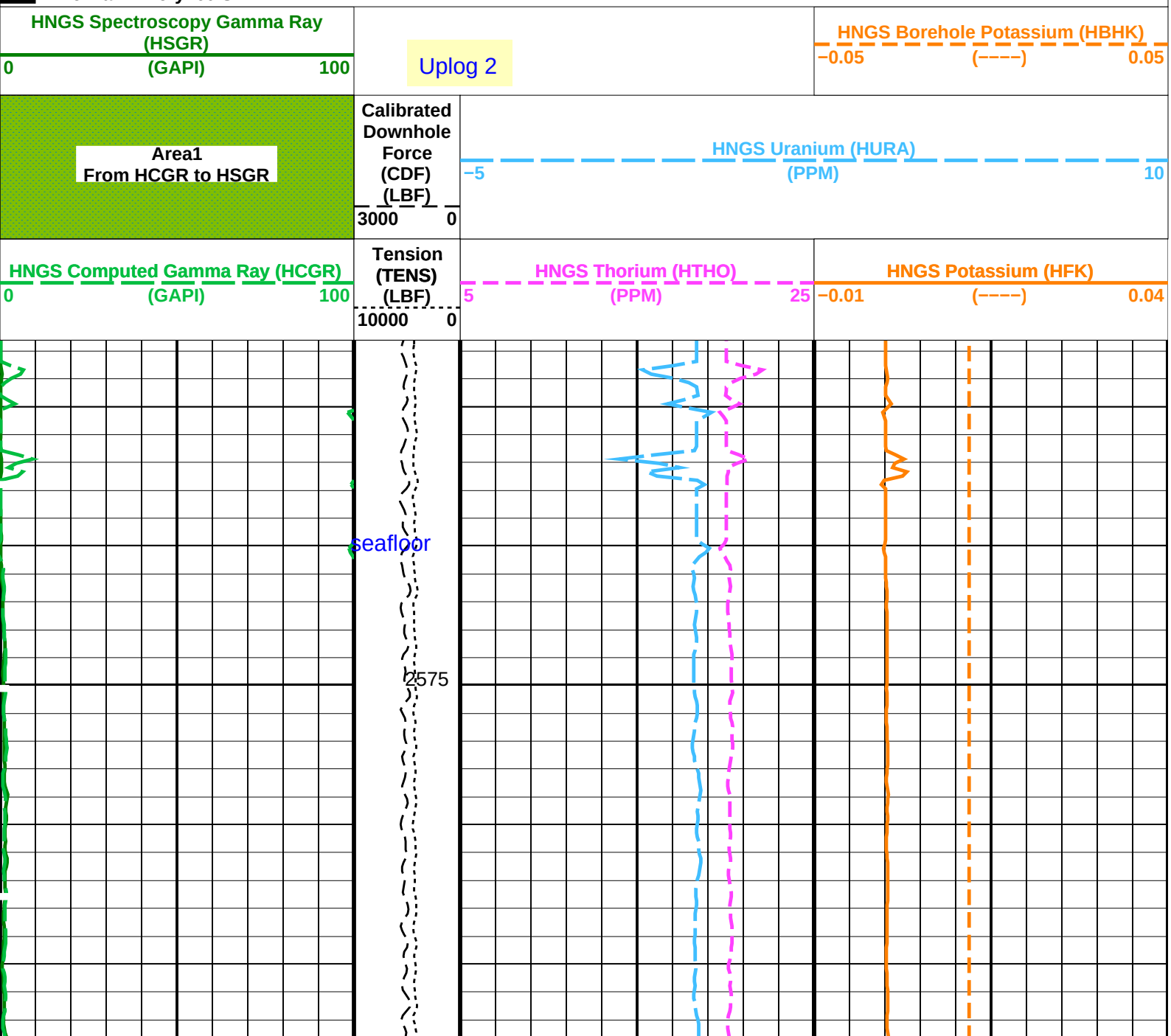
DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20	3090.7 M	2562.6 M

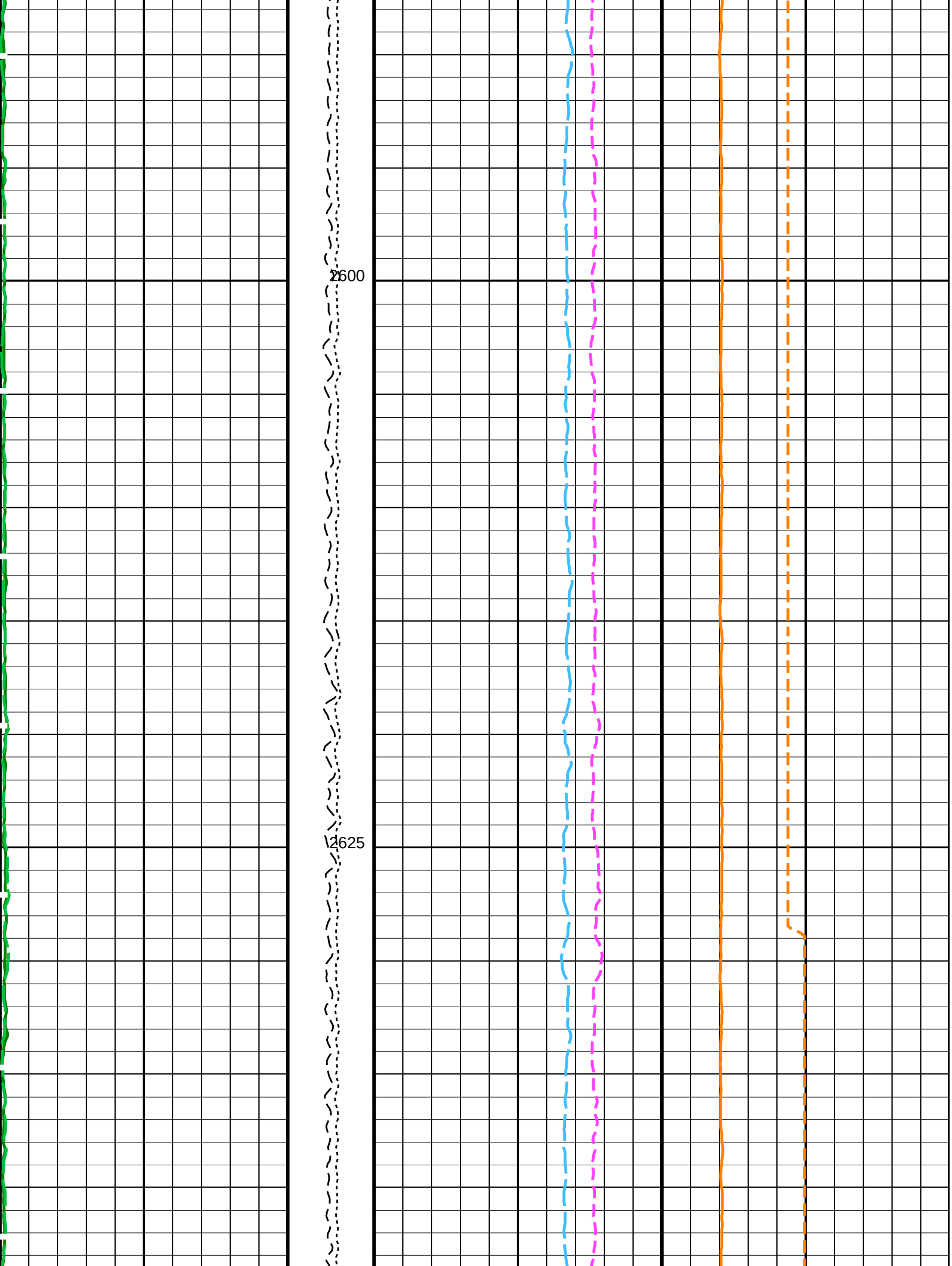
OP System Version: 19C0−187

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

PIP SUMMARY

Time Mark Every 60 S

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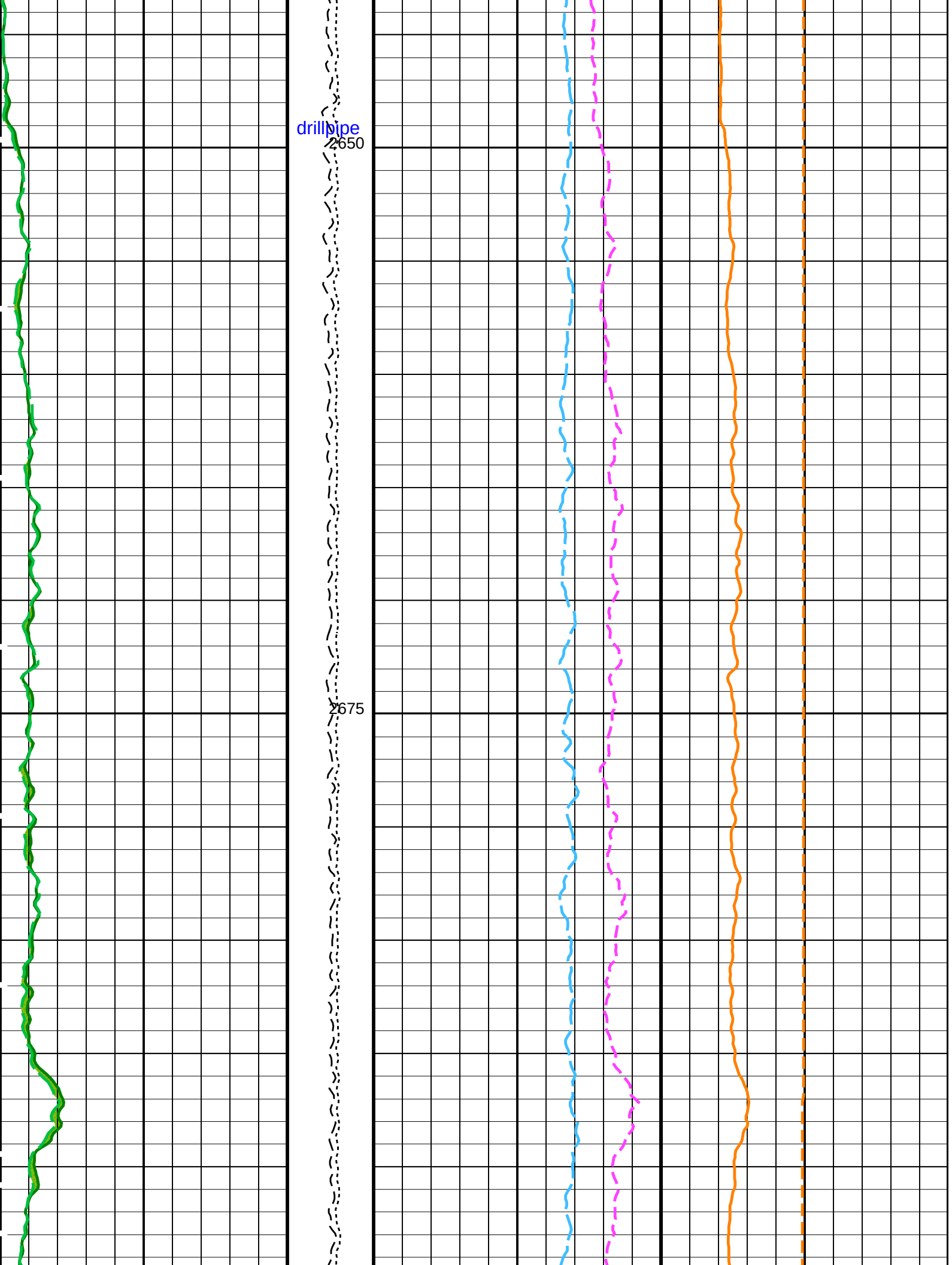
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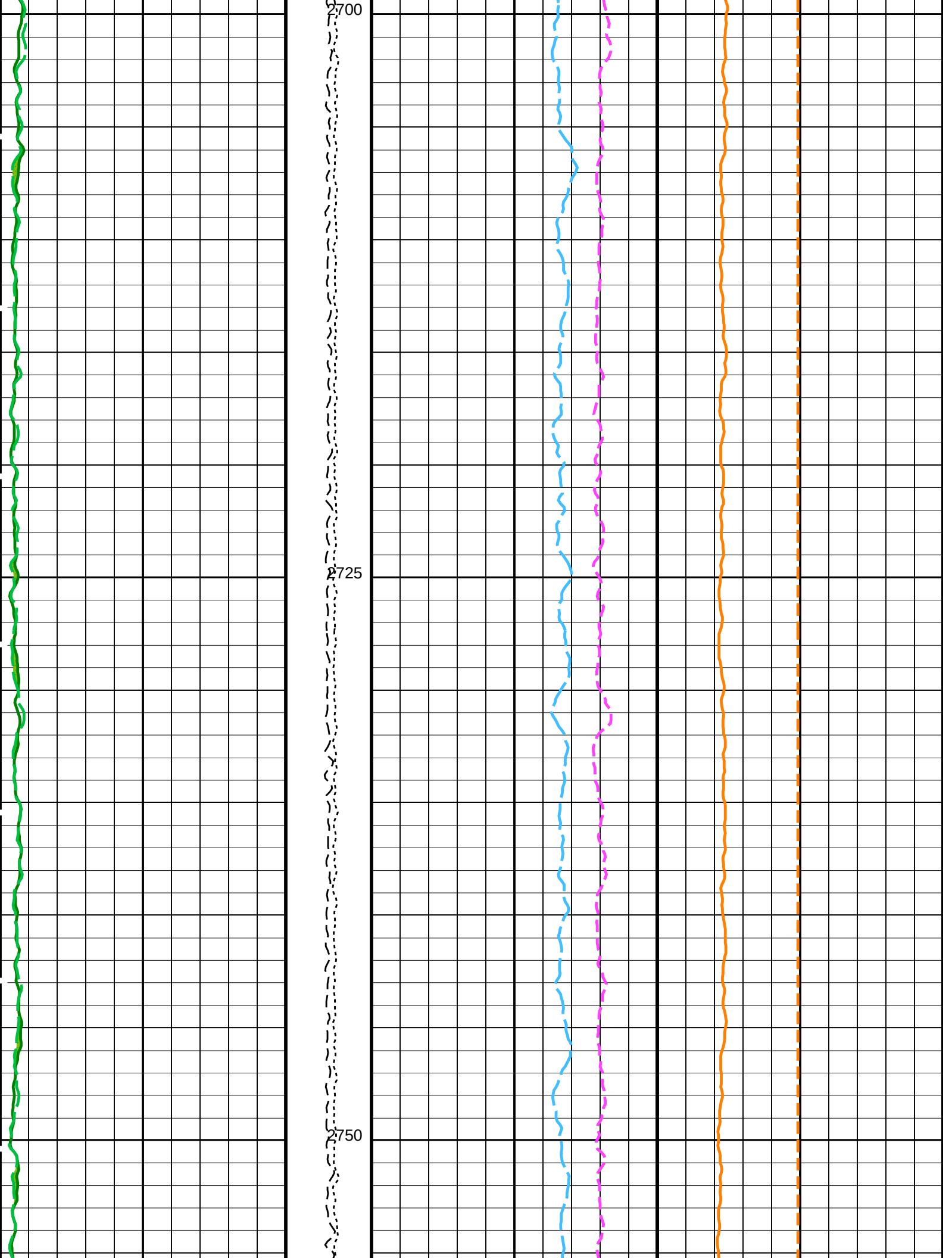
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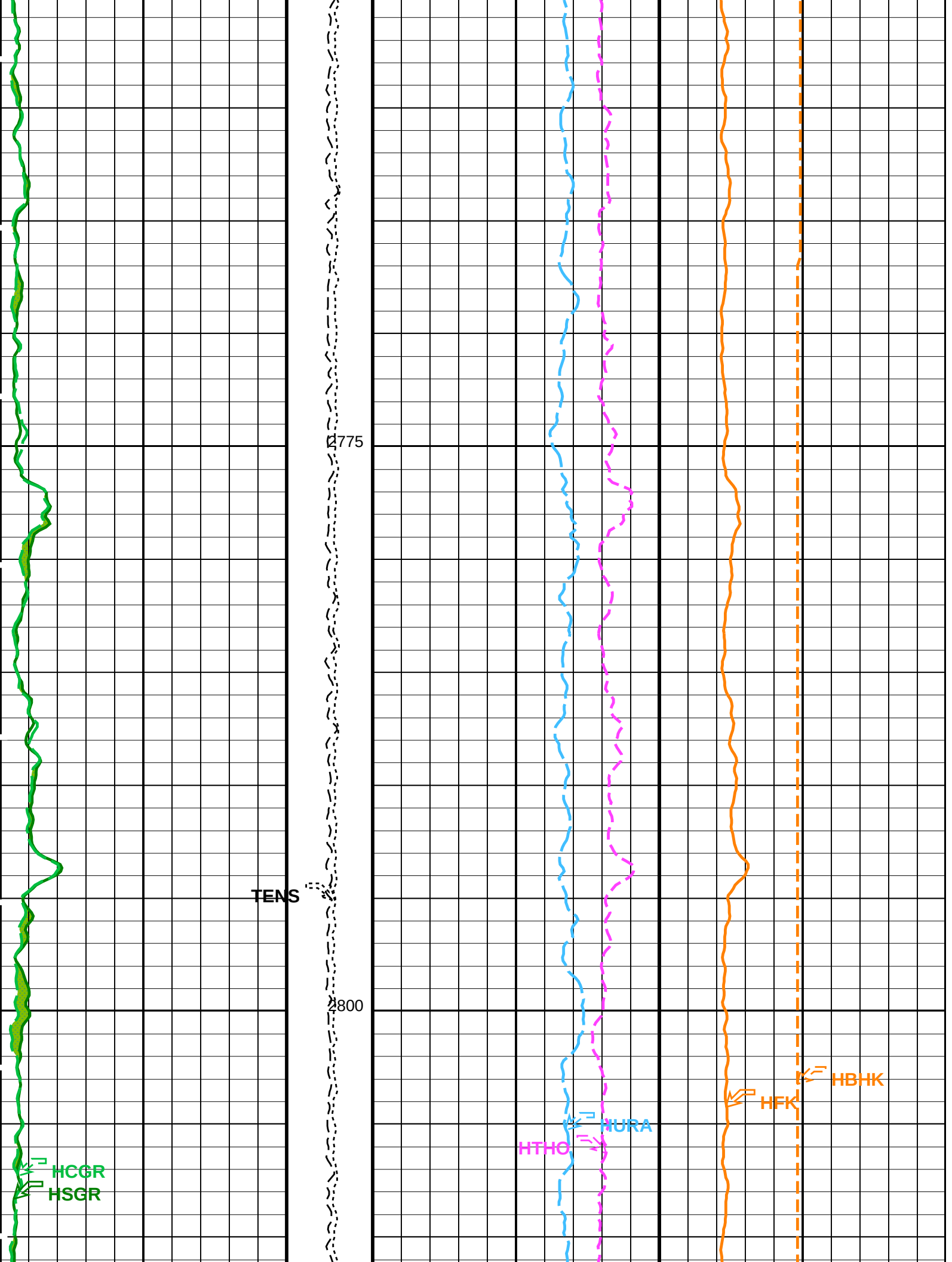
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HSGR
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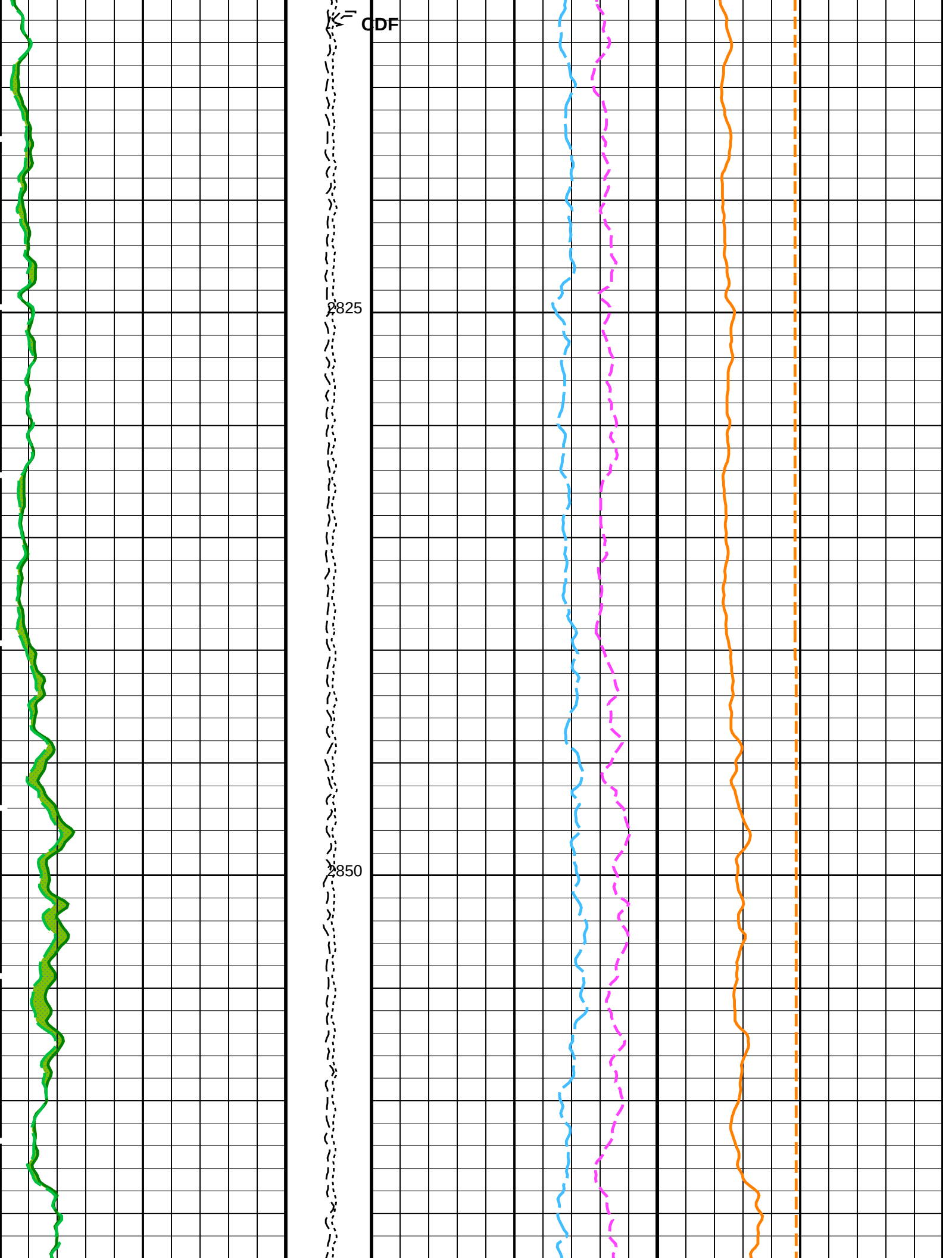
HFK
HBHK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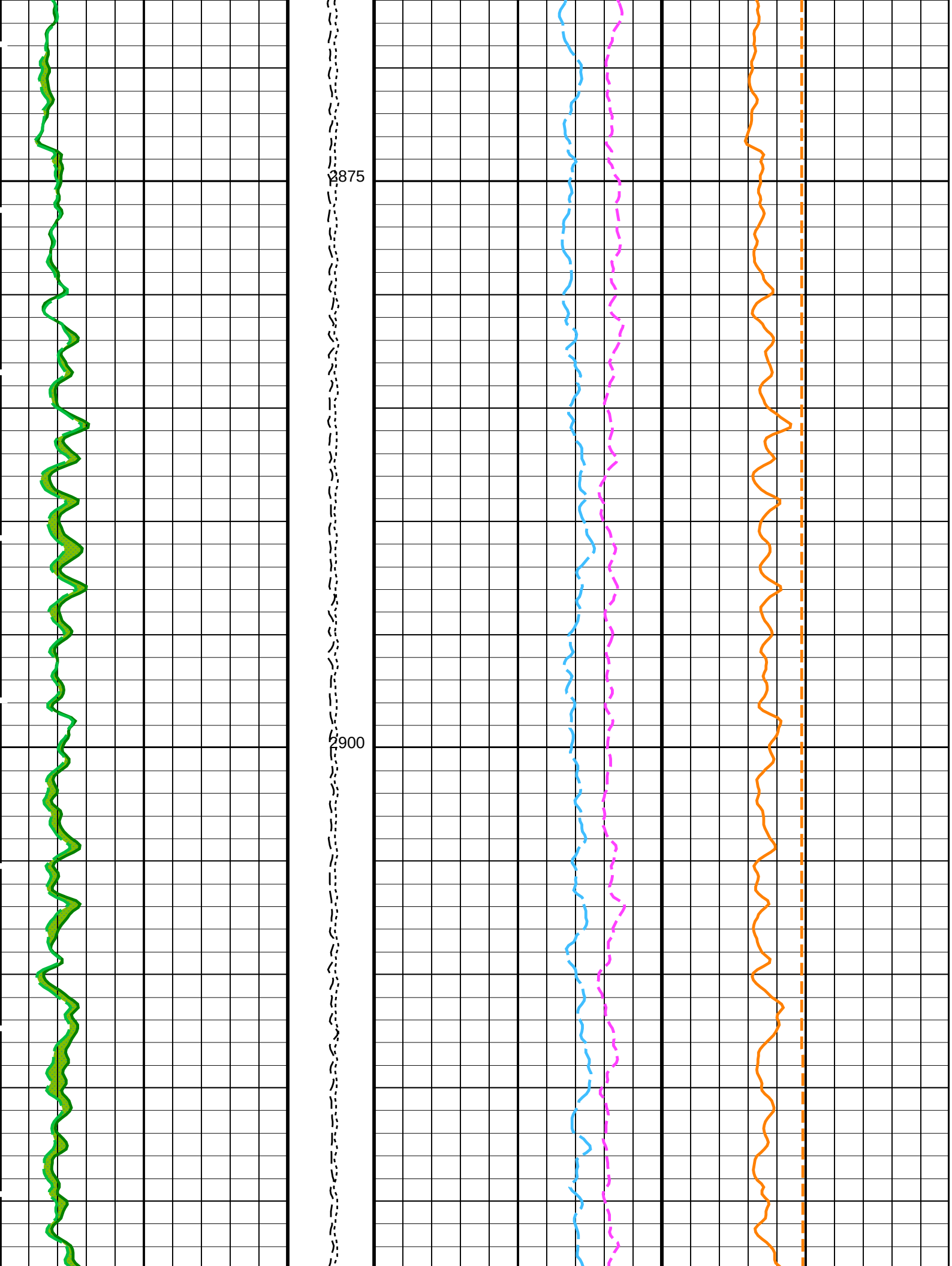
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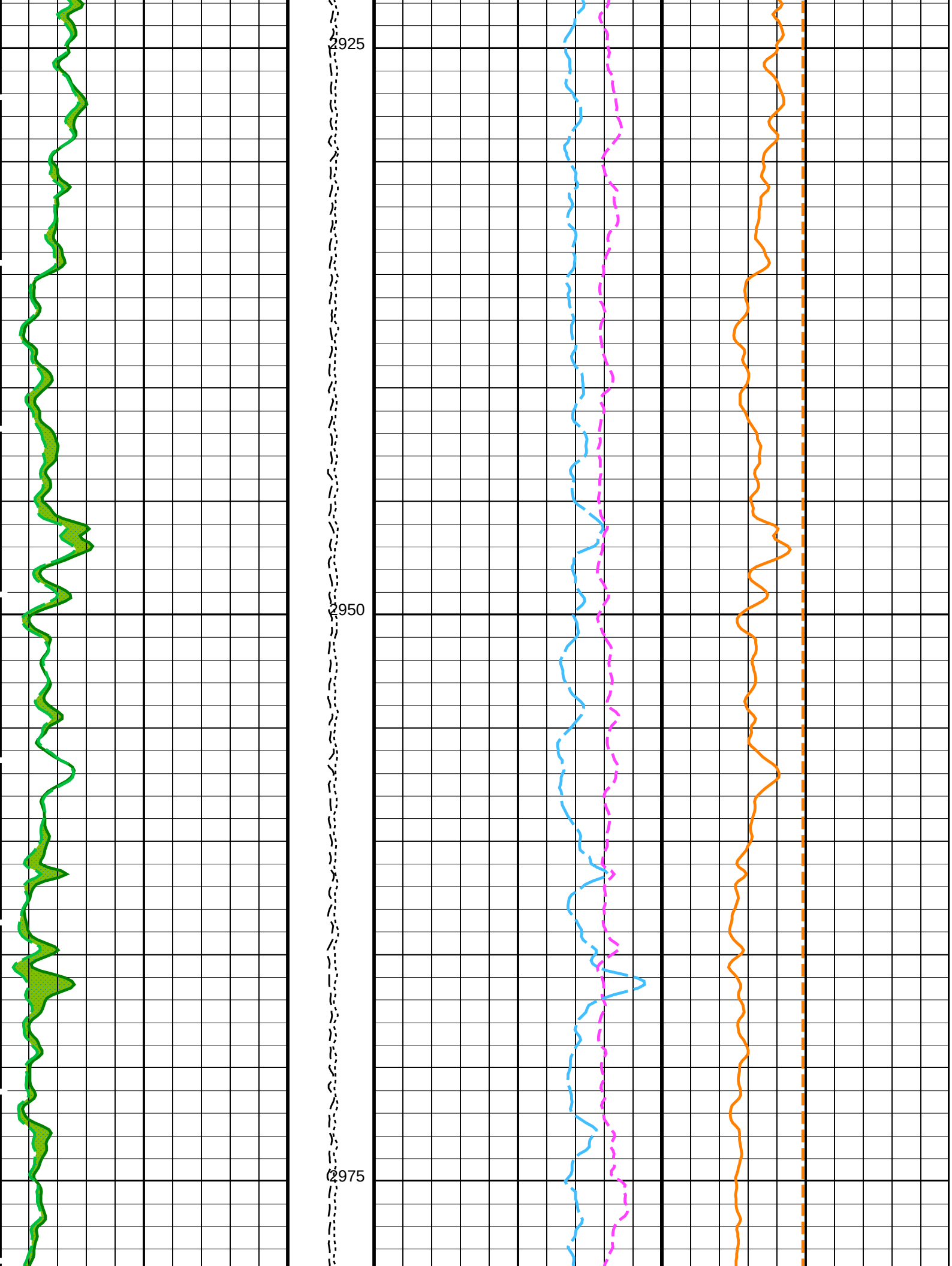
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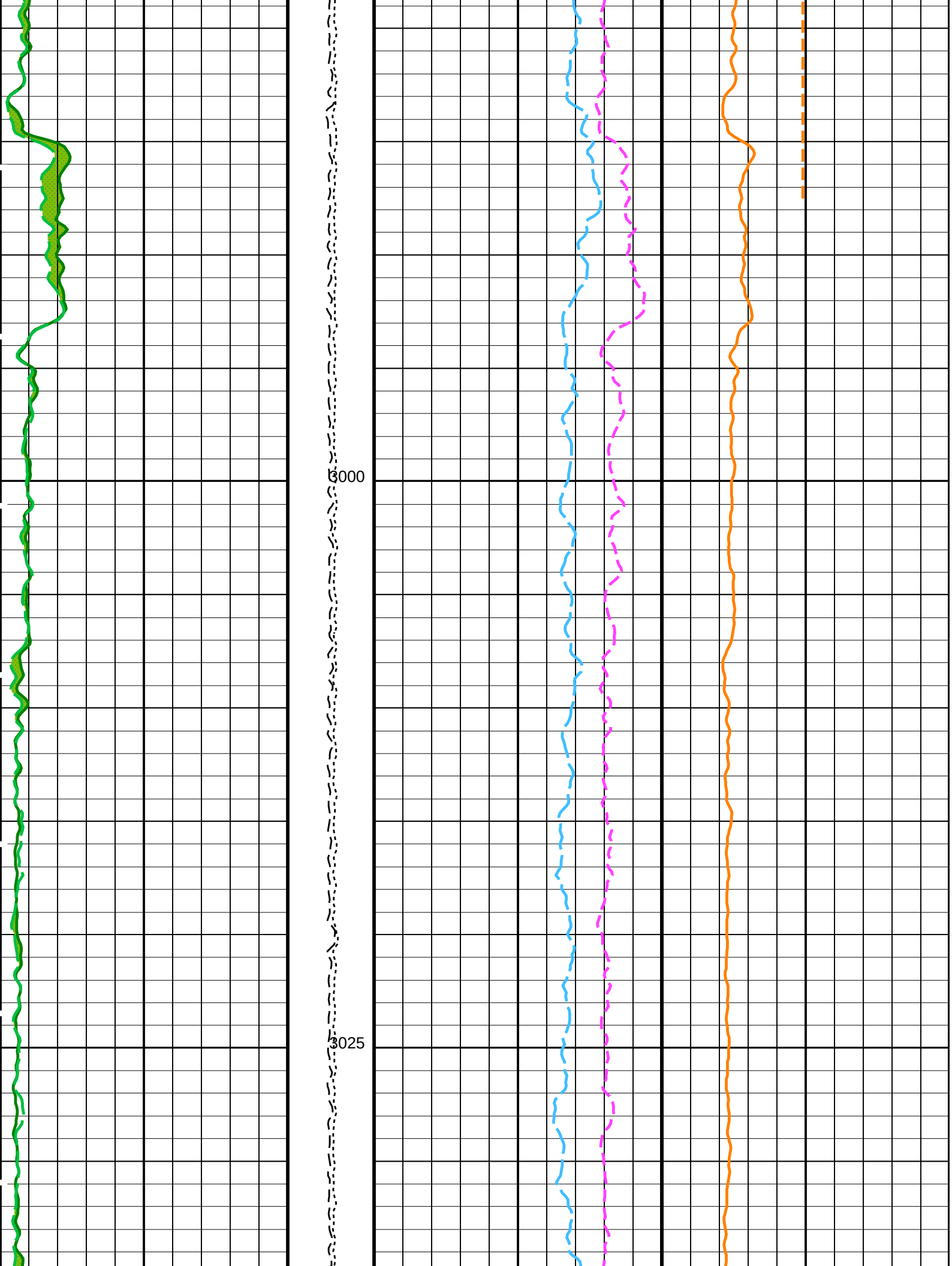
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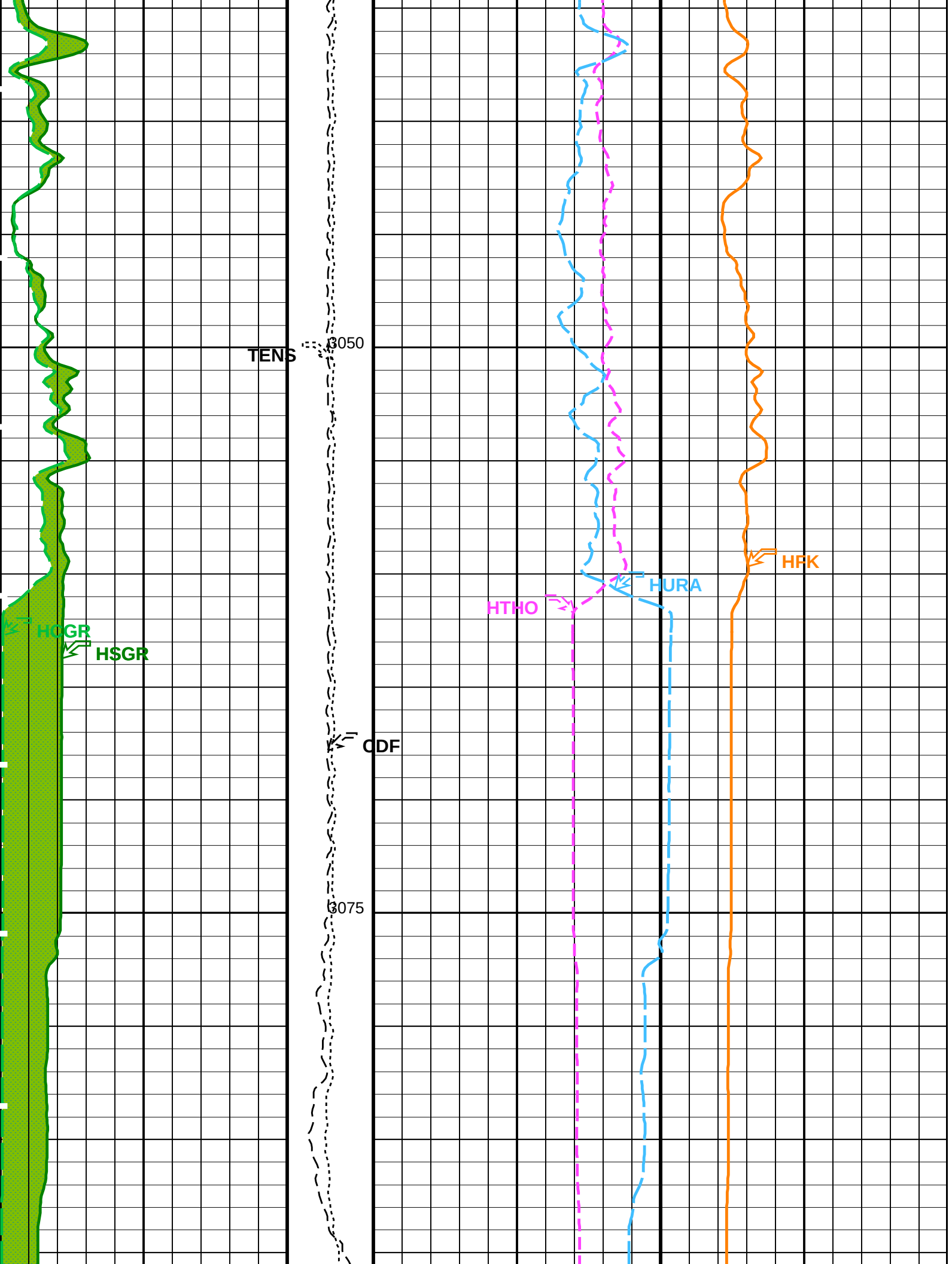
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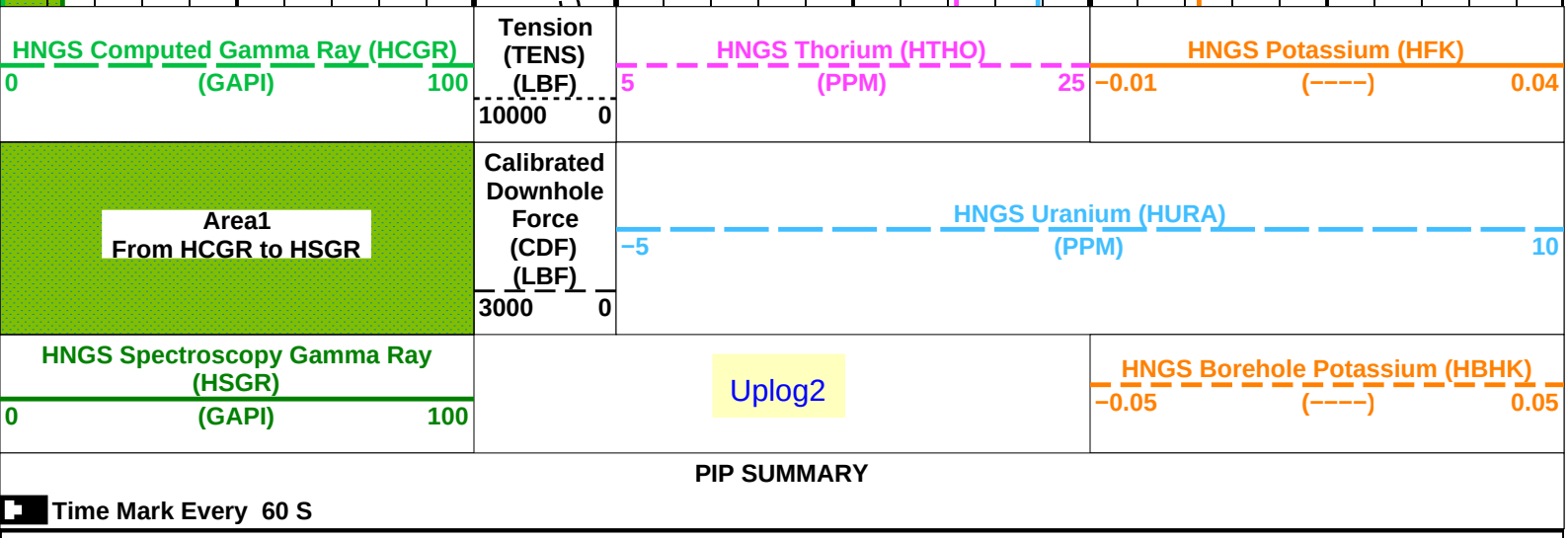
HURA
HFK



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	−0.00144791	
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	1.04904	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07033	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09−Mar−2022 21:20

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20

Company: International Ocean Discovery Program | Well: Expedition 392, Site U1580A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20	3090.7 M	2562.6 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	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

Deviation at DSST Waveform Depth (DVWD)
0 (DEG) 100

Relative Bearing at DSST Waveform Depth (RBWD)
0 (DEG) 400

Azimuth at DSST Waveform Depth (AZWD)
0 (DEG) 400

Waveform Data Copy Indicator X − Expert (WCIX)
0 (−−−−) 10

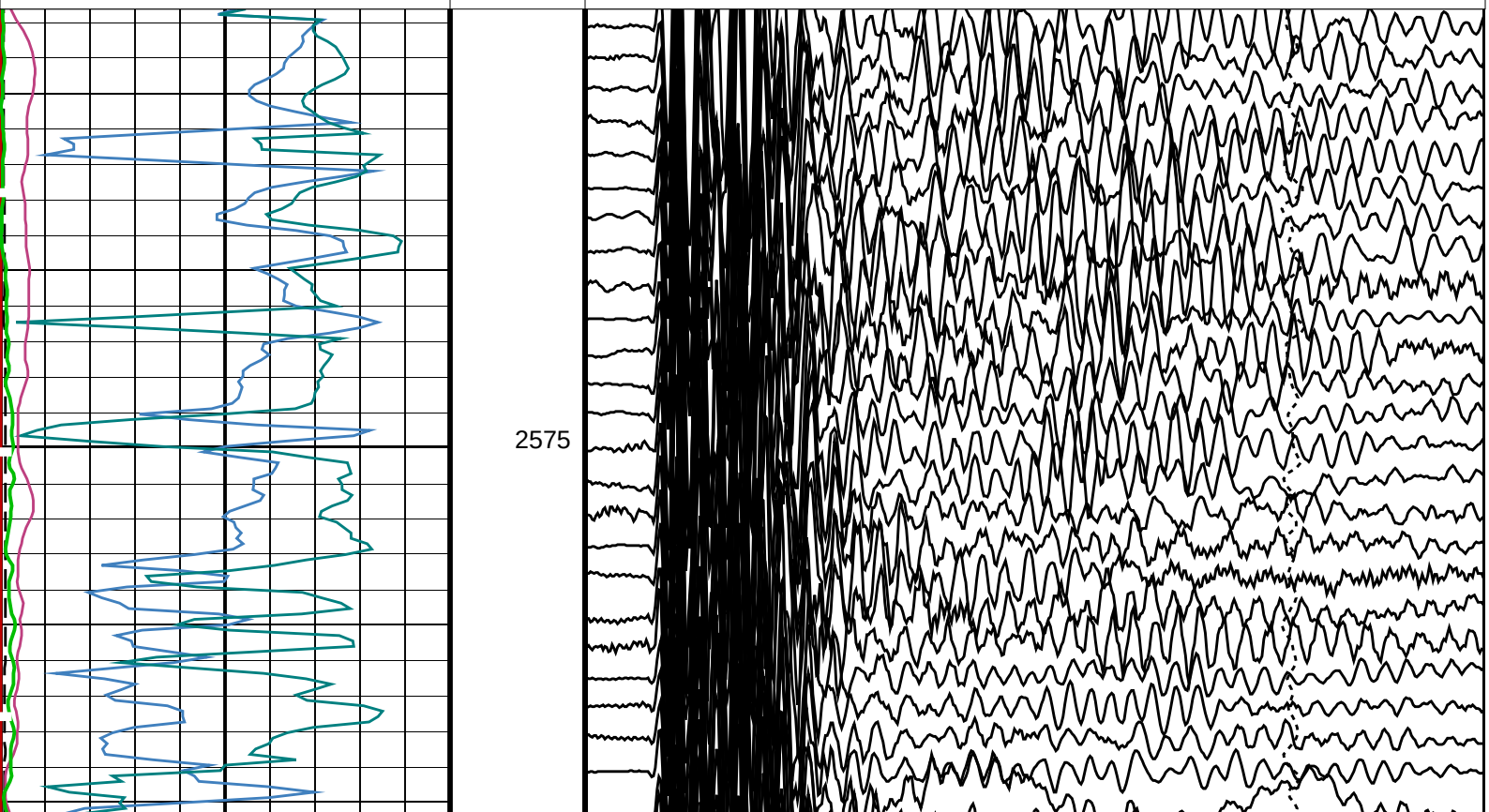
Gamma Ray (GR_EDTC)
0 (GAPI) 100

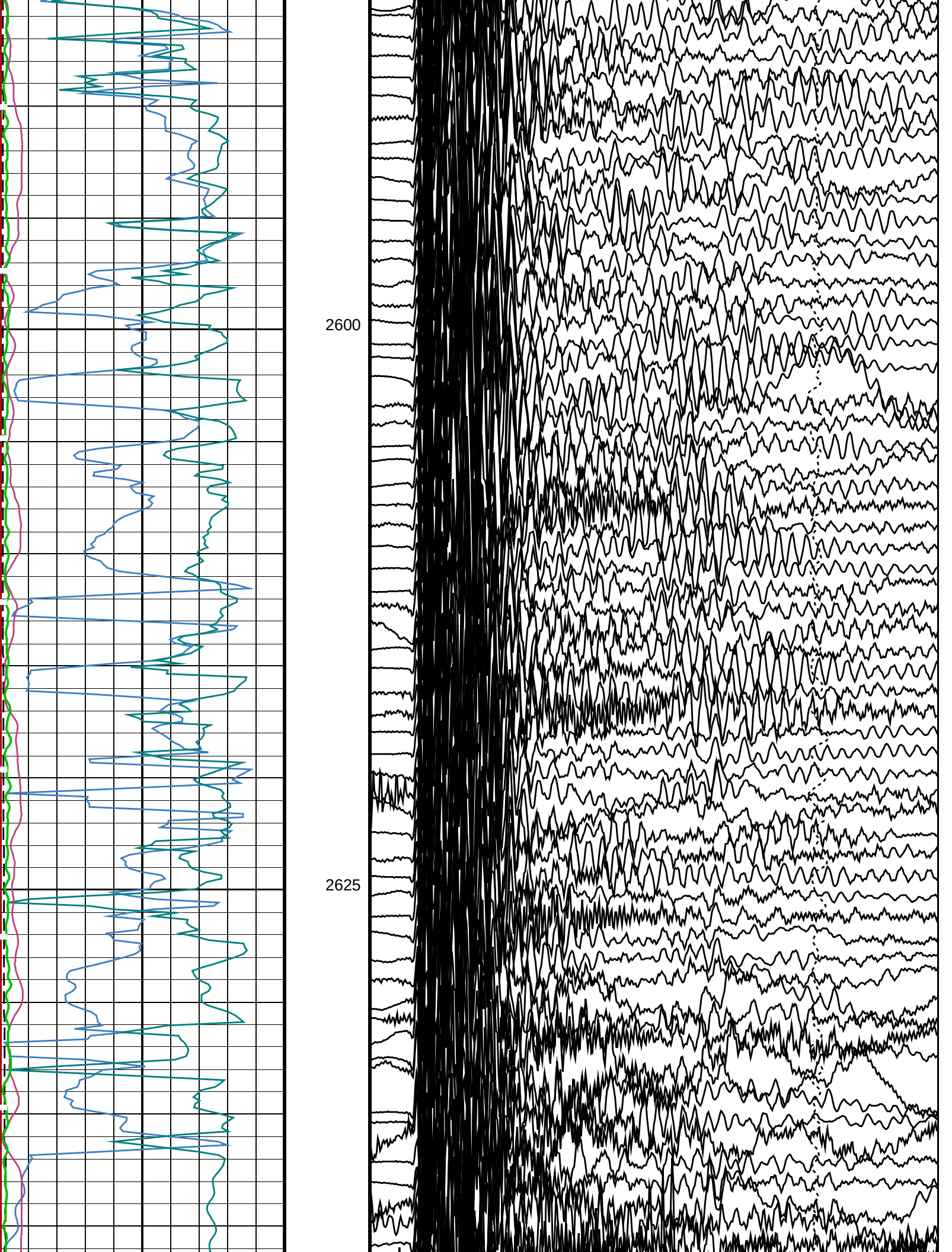
SAMX Waveform Gain (WFGX)
0 (−−−−) 1000

Uplog 2

Tension (TENS)
10000 (LBF) 0

SAMX Waveforms (WFX)
0 (US) 20000

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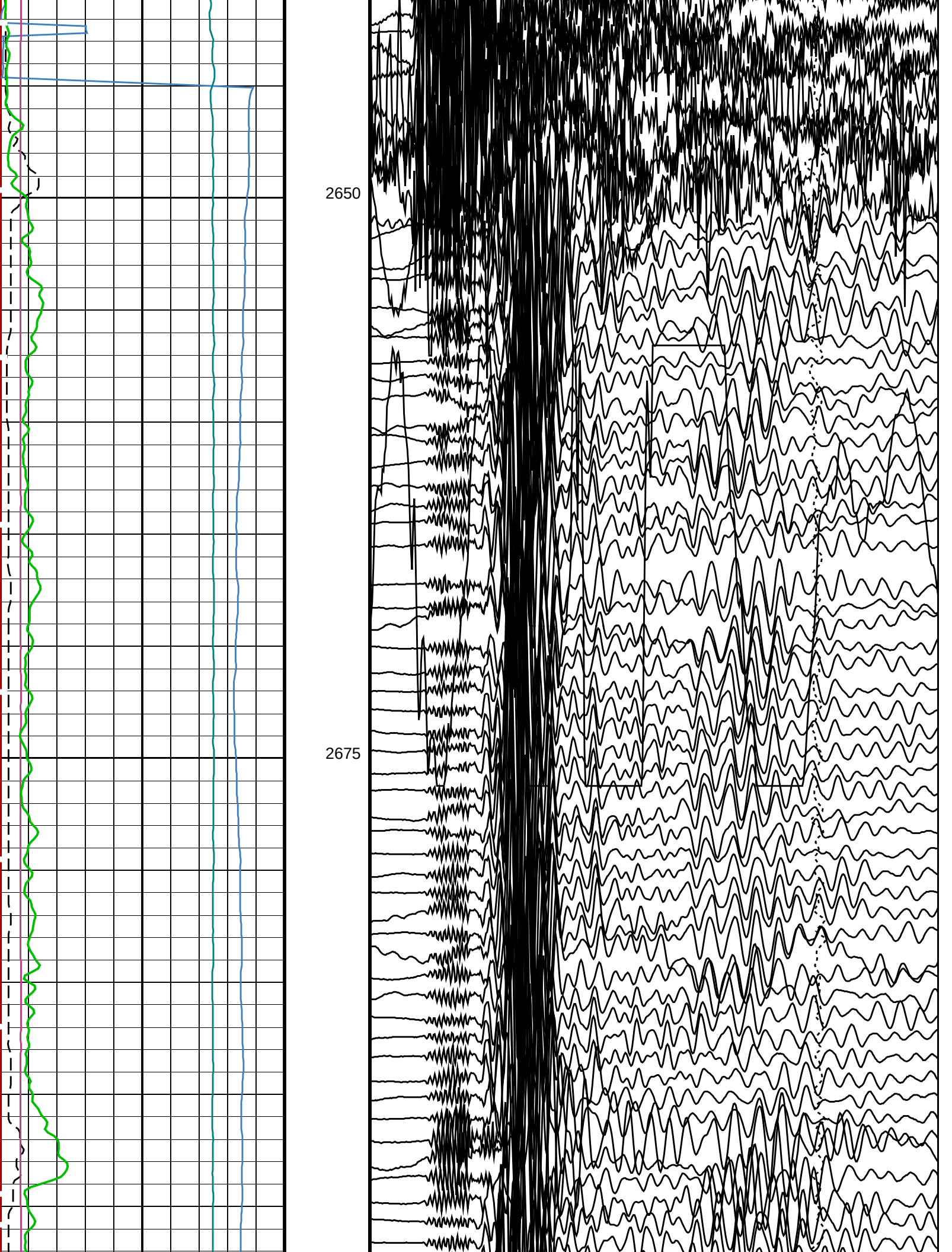
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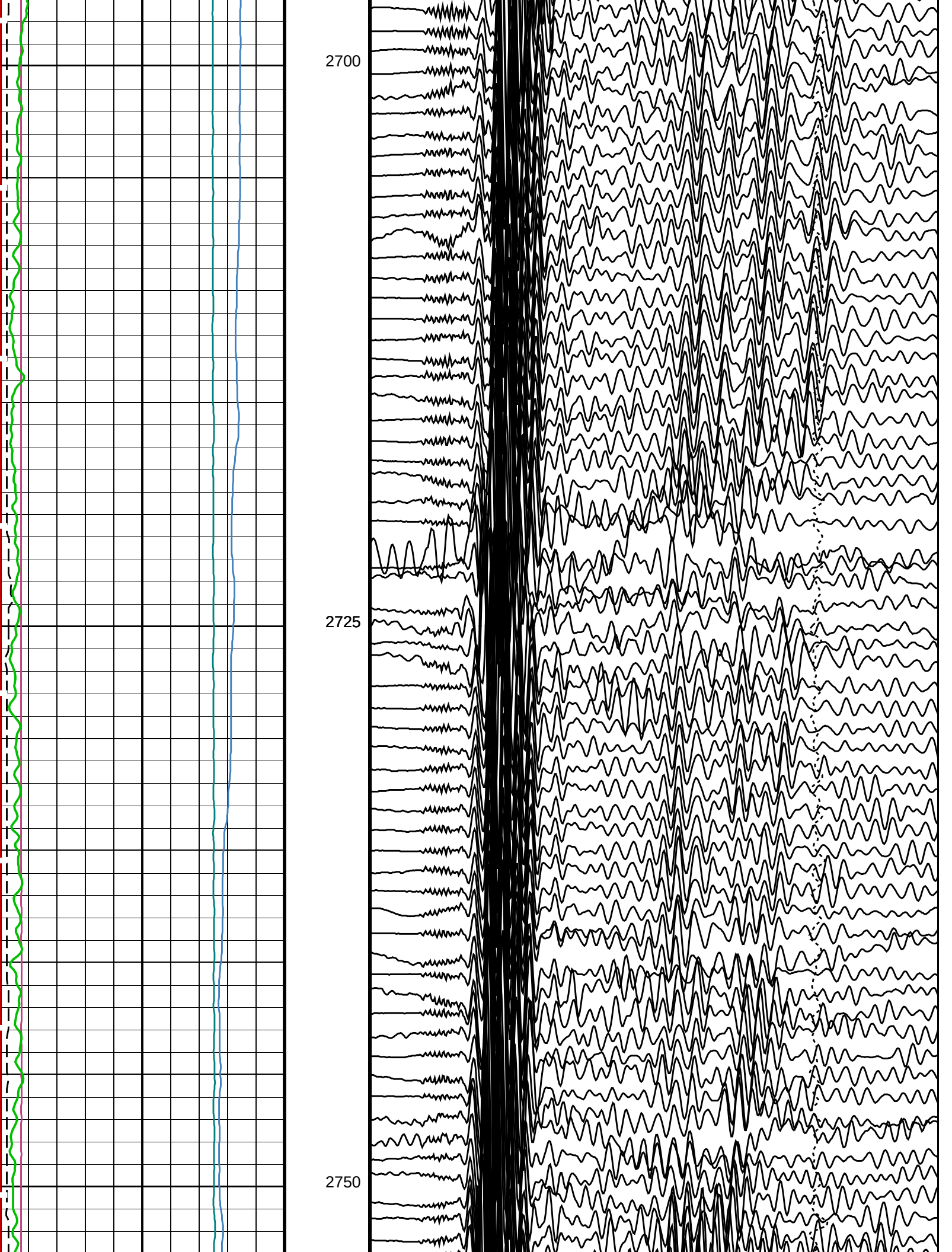
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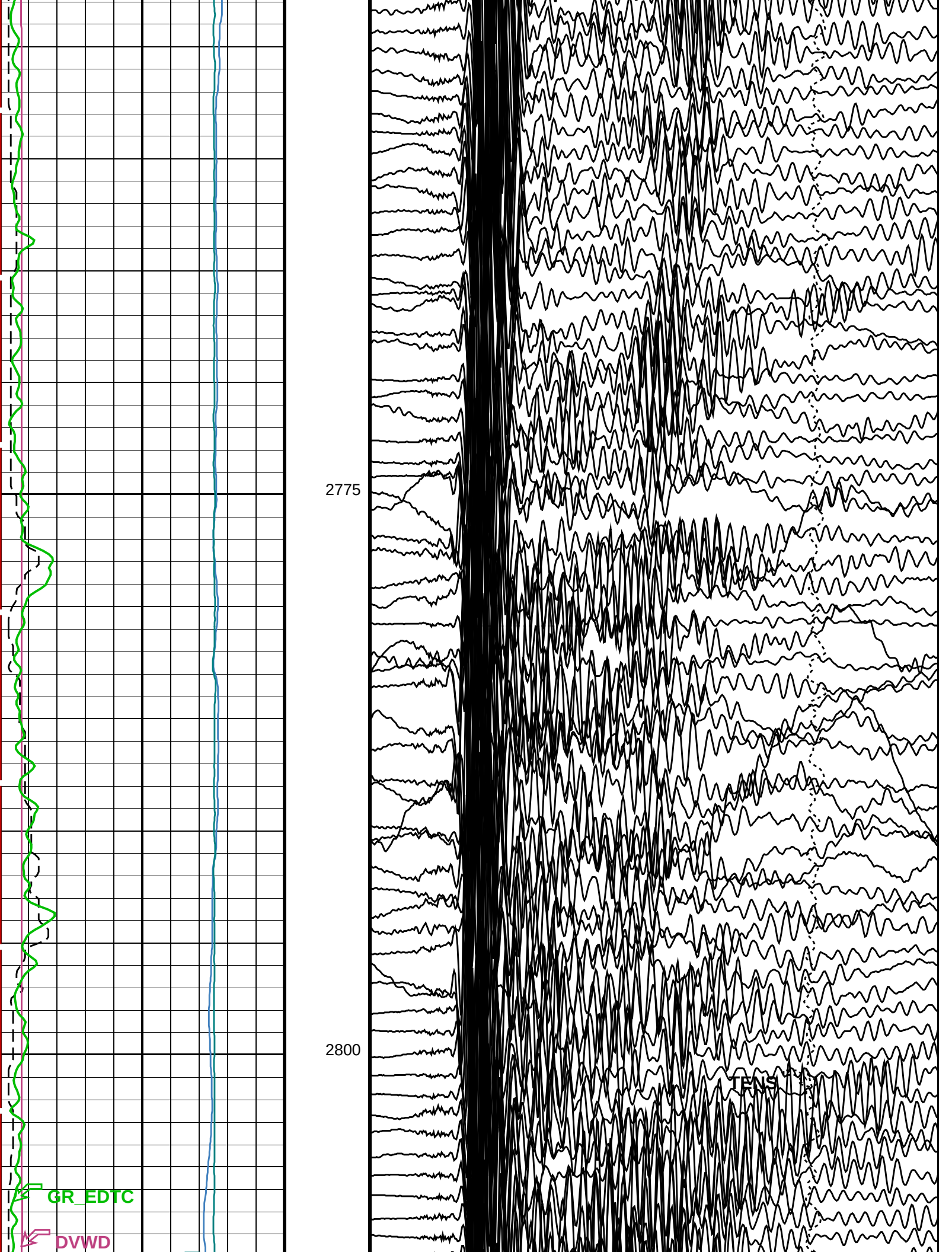
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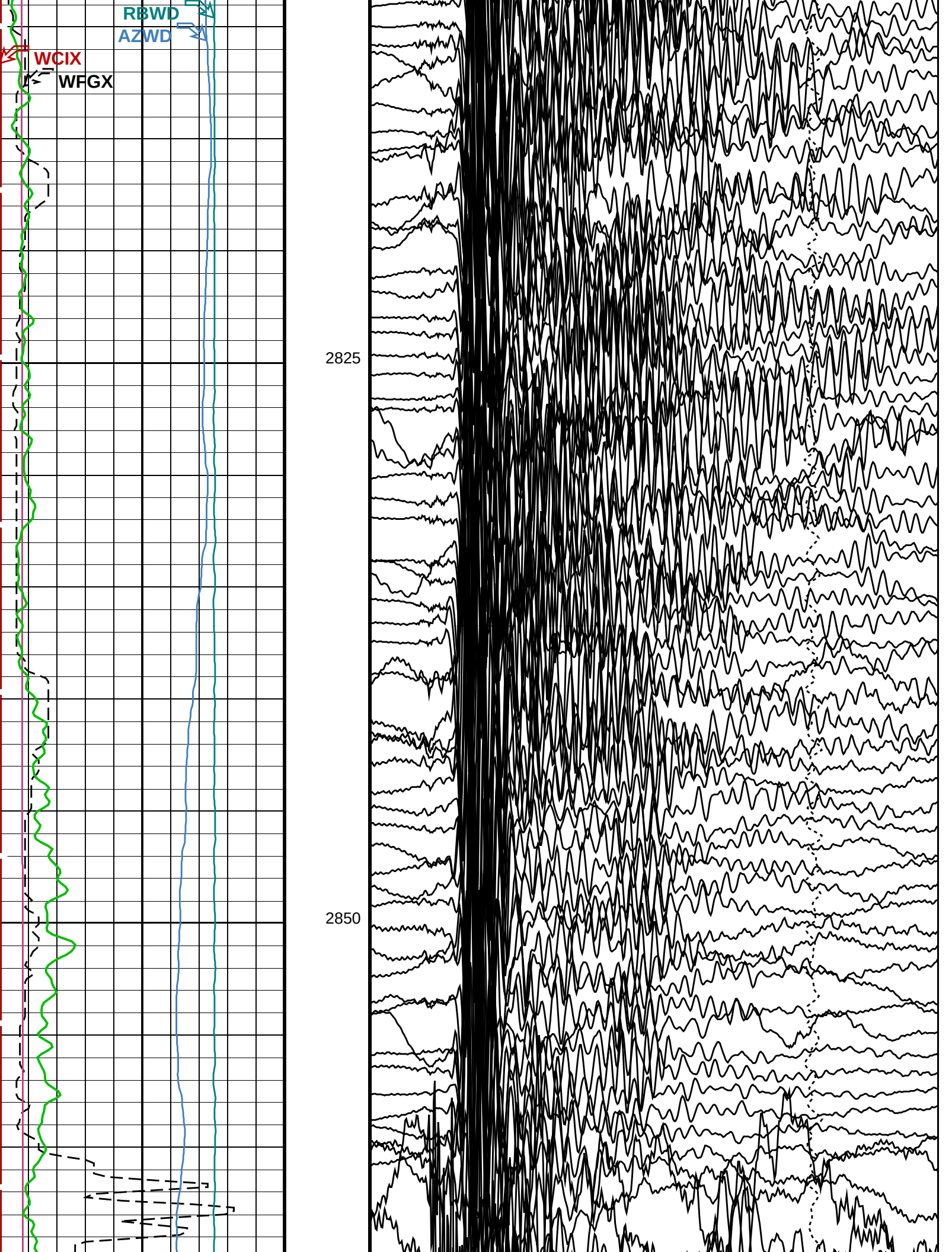
2800
TENS
GR_EDTC
DVWD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AZWD
WCIX
WFGX
2825
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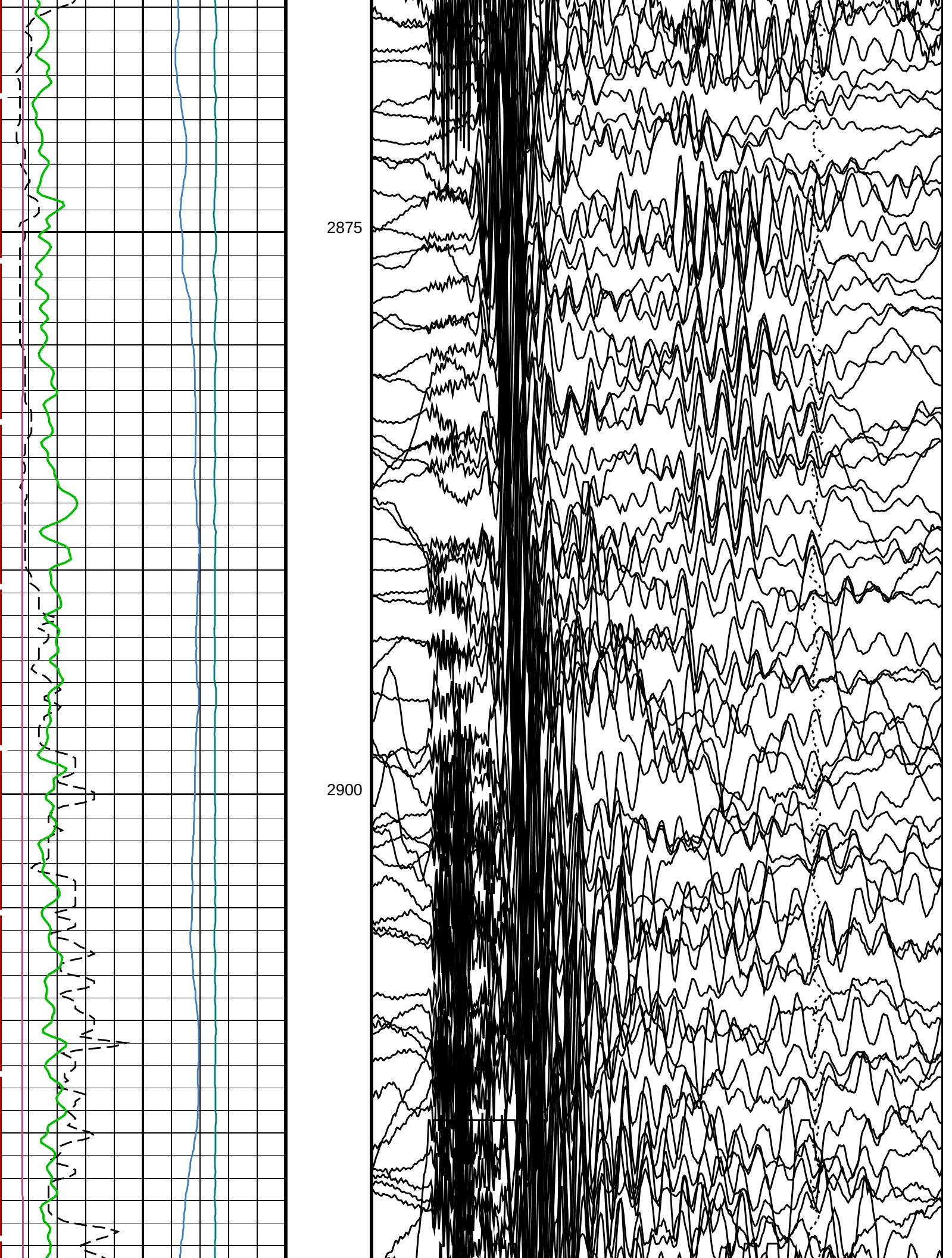
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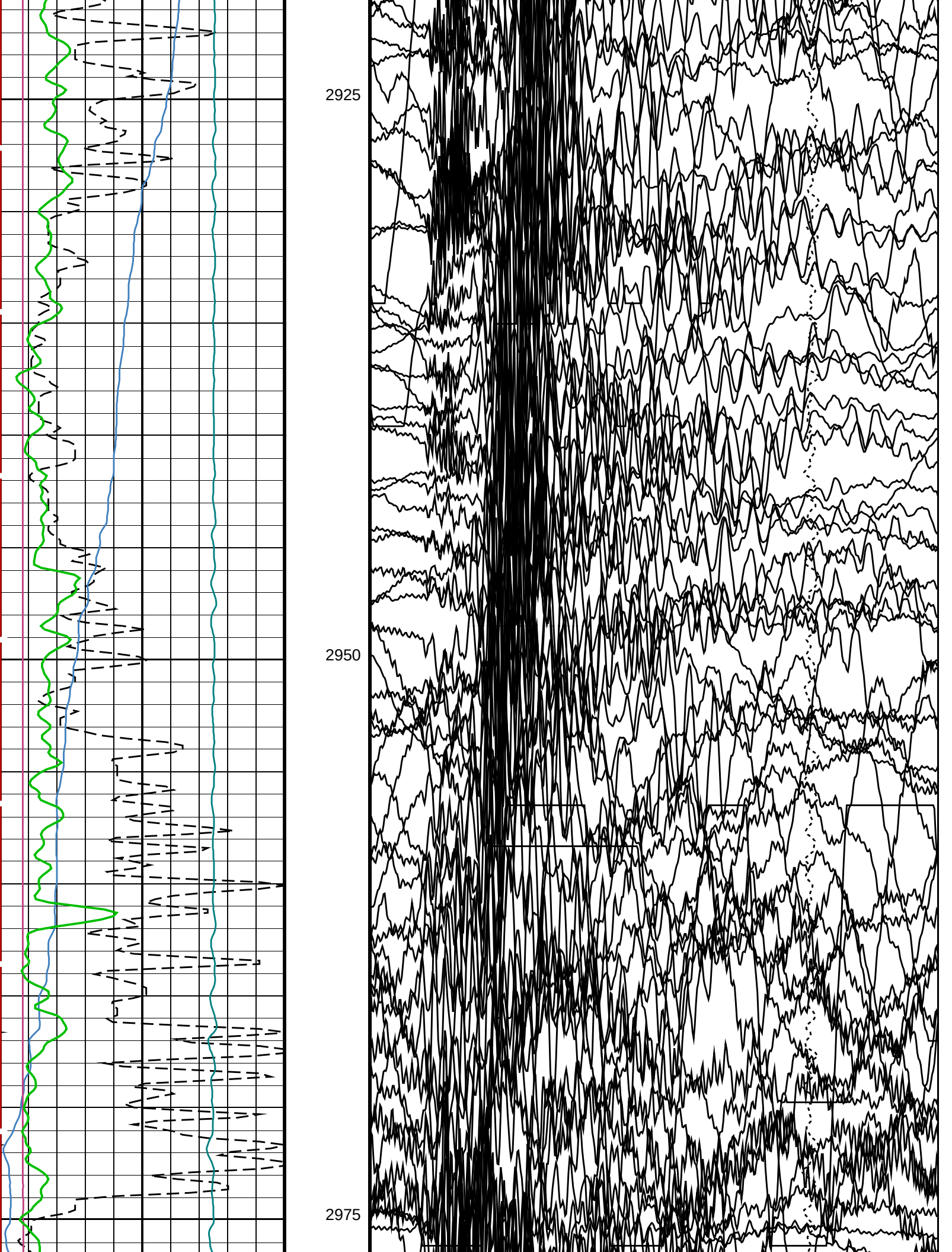
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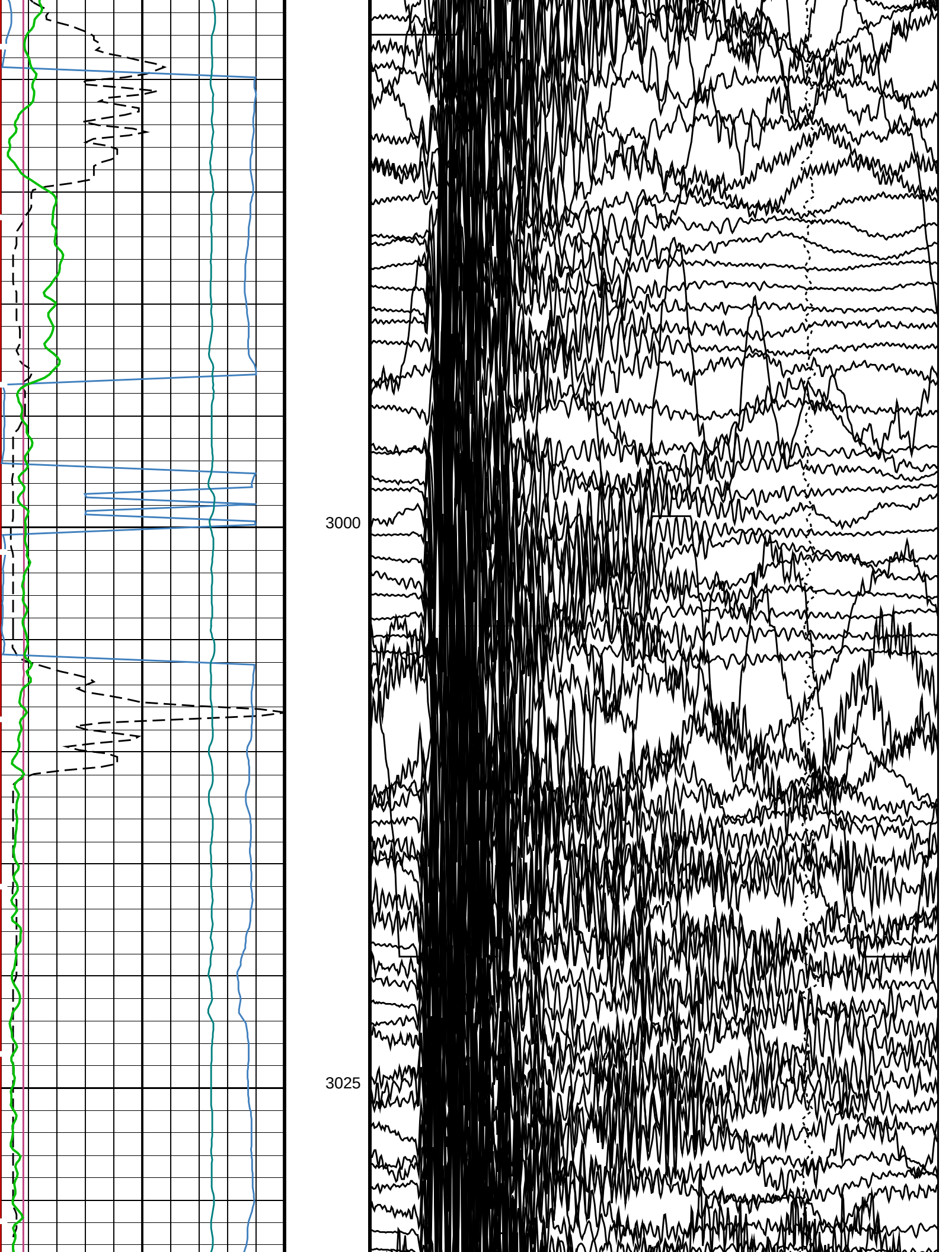
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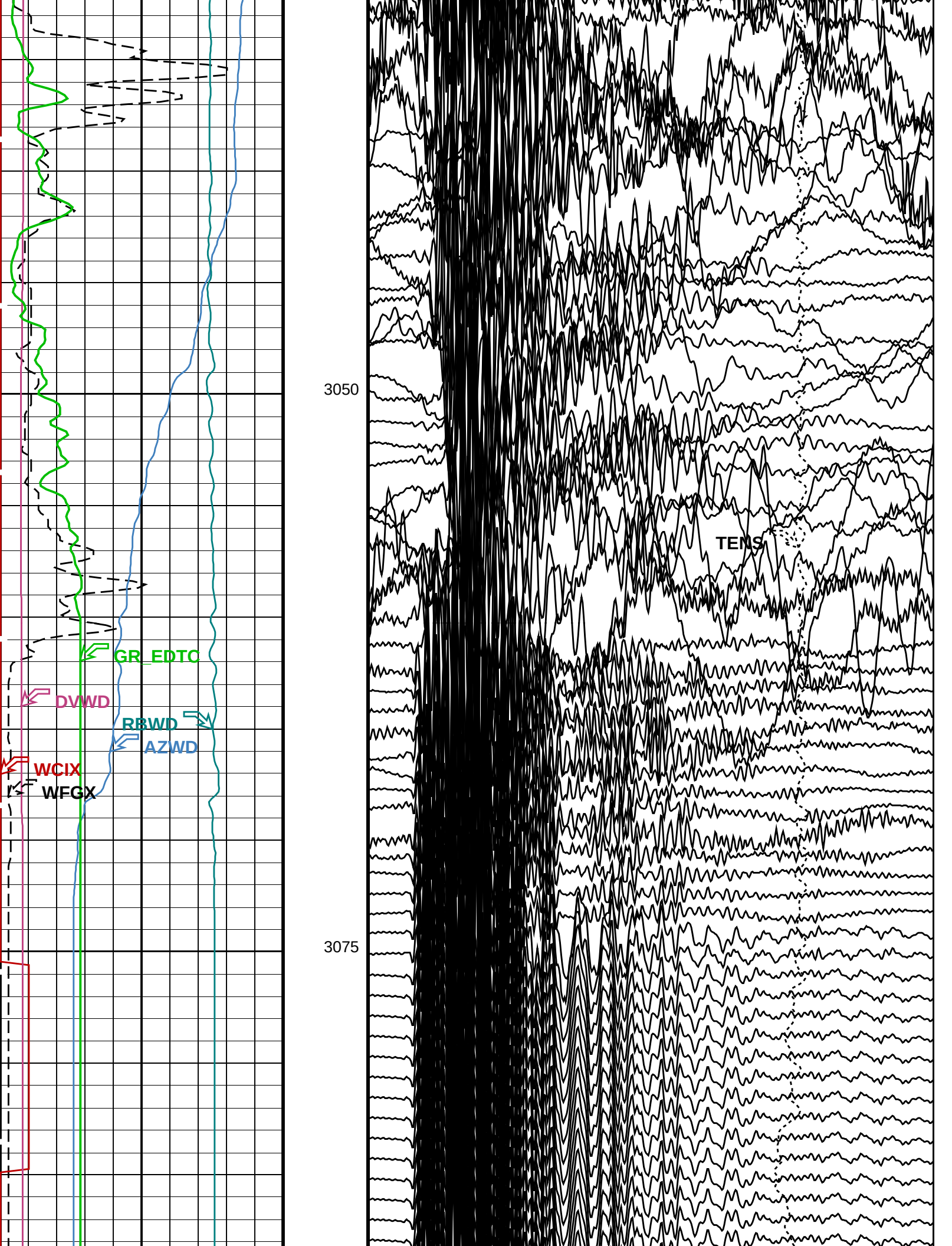
GR_EDTC
DVWD
RBWD
AZWD
WCIX
WFGX
3050
TENS
3075

SAMX Waveform Gain (WFGX)
0 (----) 1000

SAMX Waveforms (WFX)
0 (US) 20000

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Tension (TENS)
10000 (LBF) 0

Uplog 2

Waveform Data Copy Indicator X − Expert (WCIX)
0 (----) 10

Azimuth at DSST Waveform Depth (AZWD)
0 (DEG) 400

Relative Bearing at DSST Waveform Depth (RBWD)
0 (DEG) 400

Deviation at DSST Waveform Depth (DVWD)
0 (DEG) 100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MTXG	Monopole Transmitter Geometry	186	IN
NWIX	Number Waveform Items X	32	
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
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	BCR	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFMX	Waveform Mode X	W1	
	System and Miscellaneous		
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_WFX_WAVES Vertical Scale: 1:200 Graphics File Created: 09−Mar−2022 21:20

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20	3090.7 M	2562.6 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	EDTC−B	SKK−5169−EDTCB

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

Bit Size (BS)
0 (IN) 20

Uplog 2

Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
40 (US/F) 1400

Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1400

Delta−T Shear / RA − Lower Dipole (DT1R)
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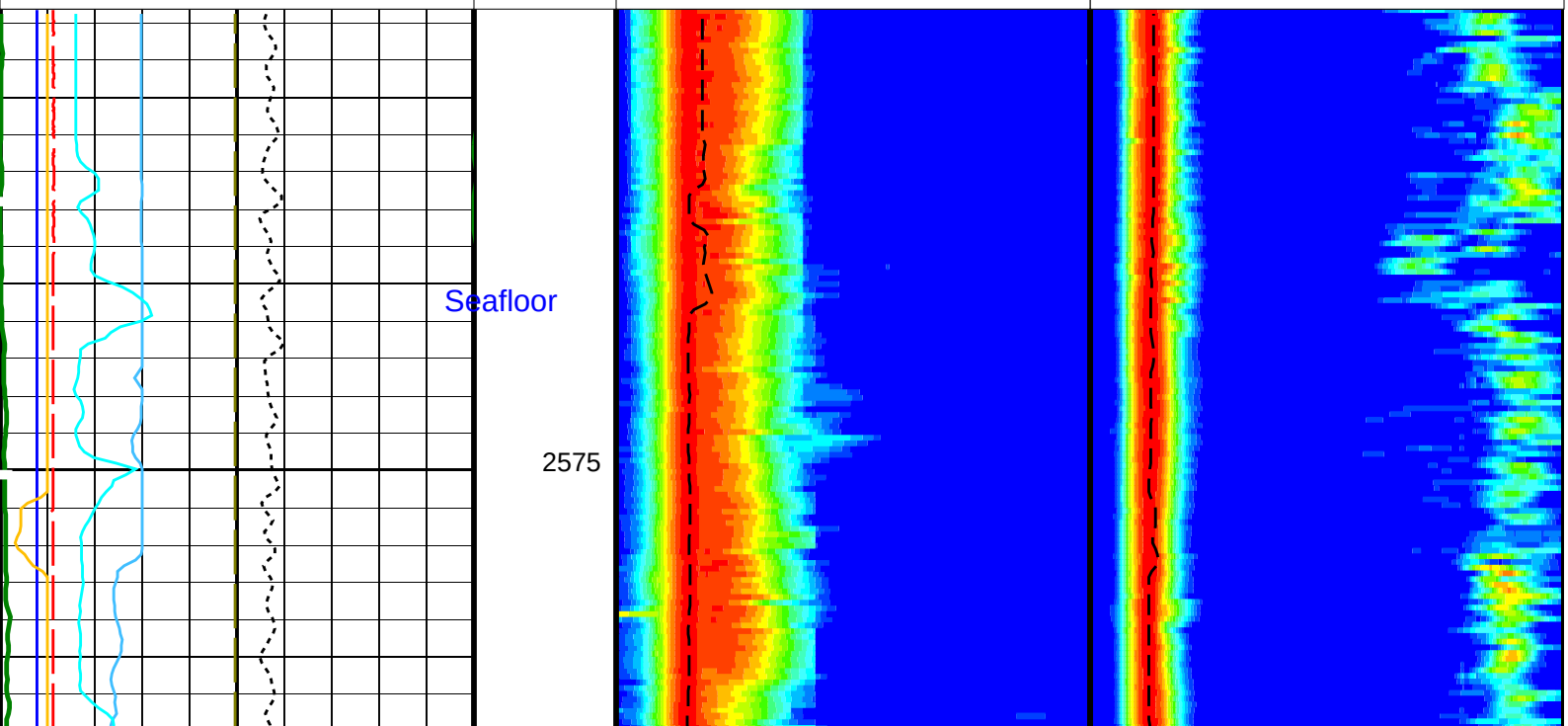
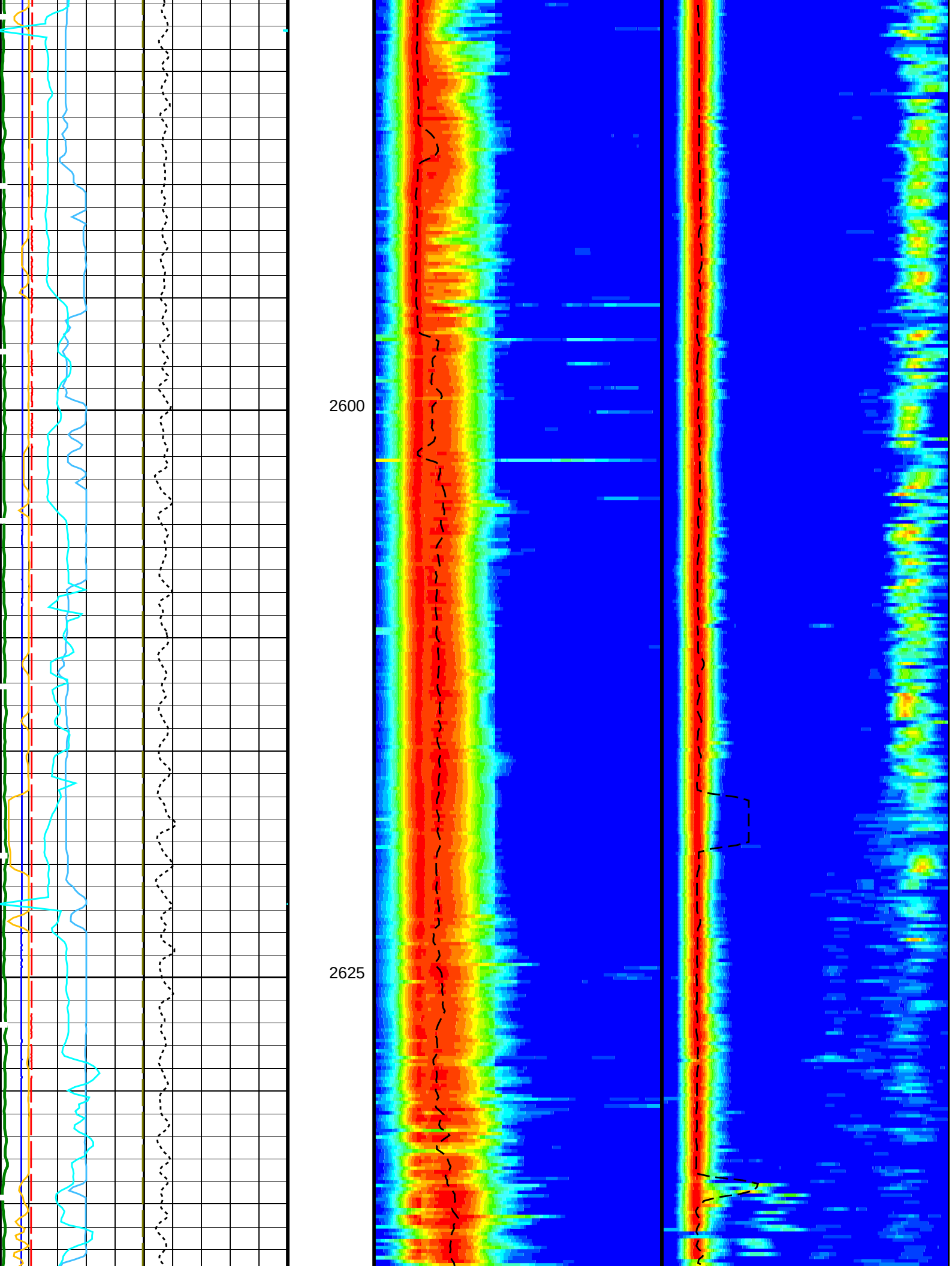
Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1400

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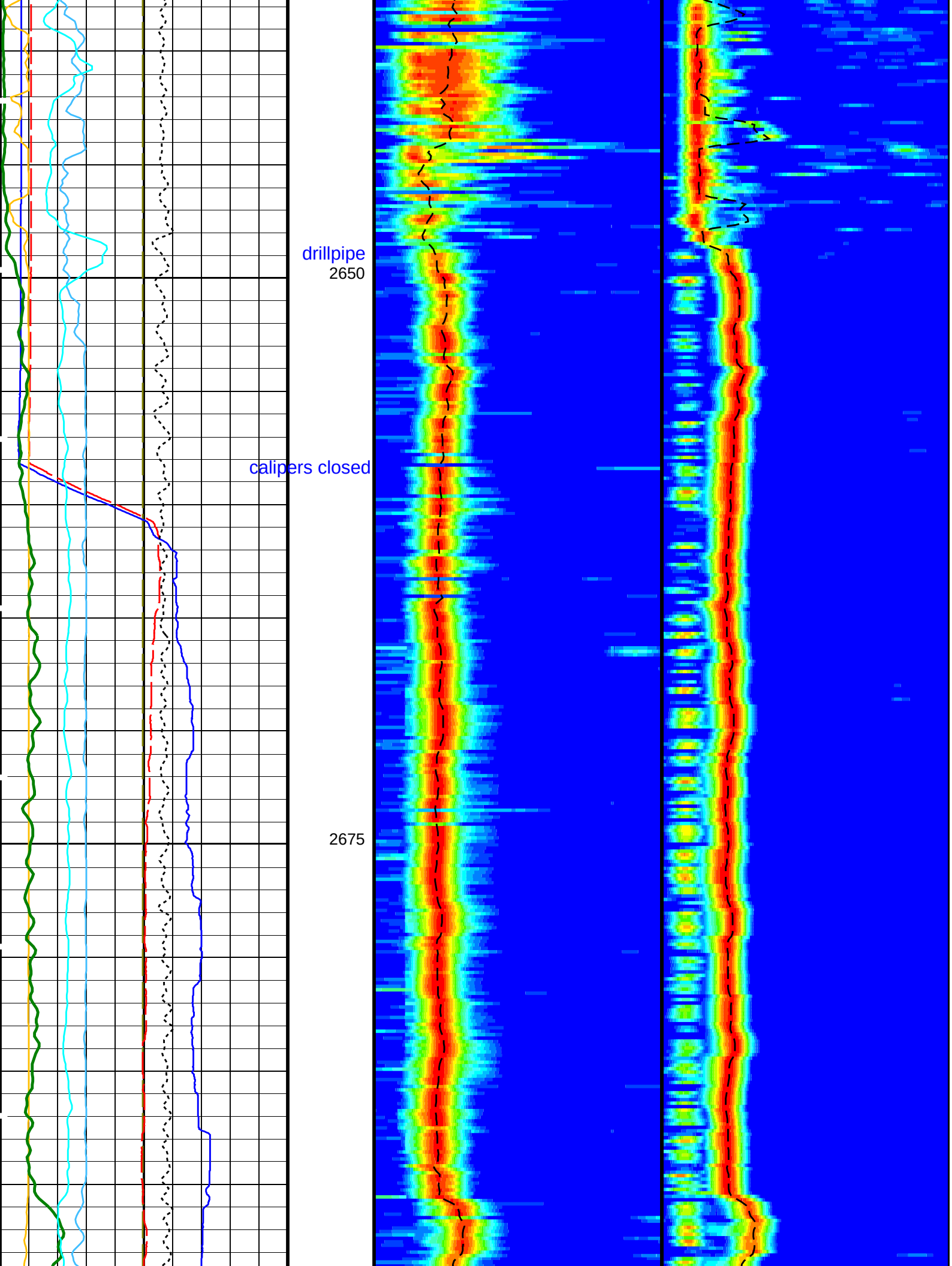
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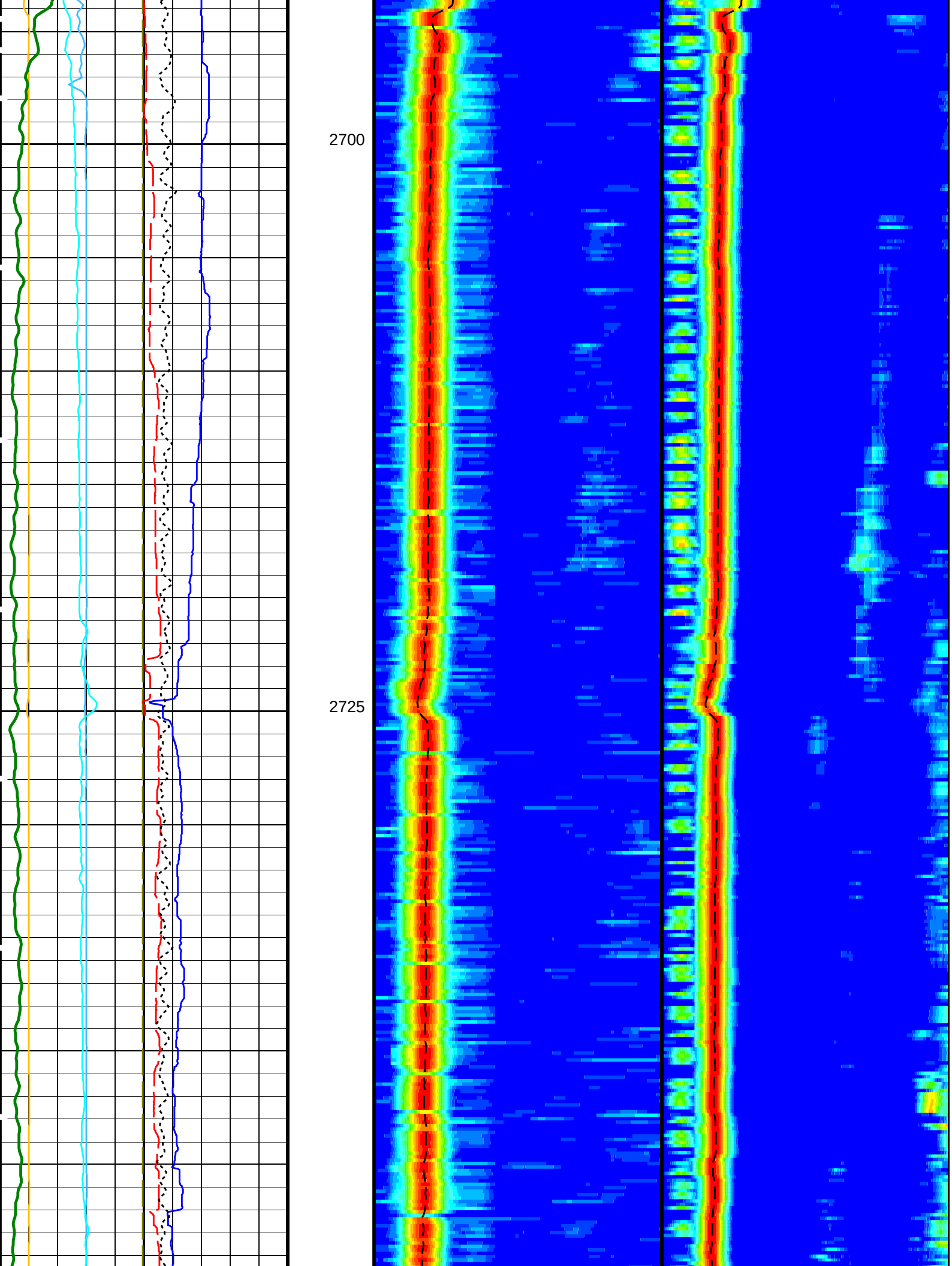
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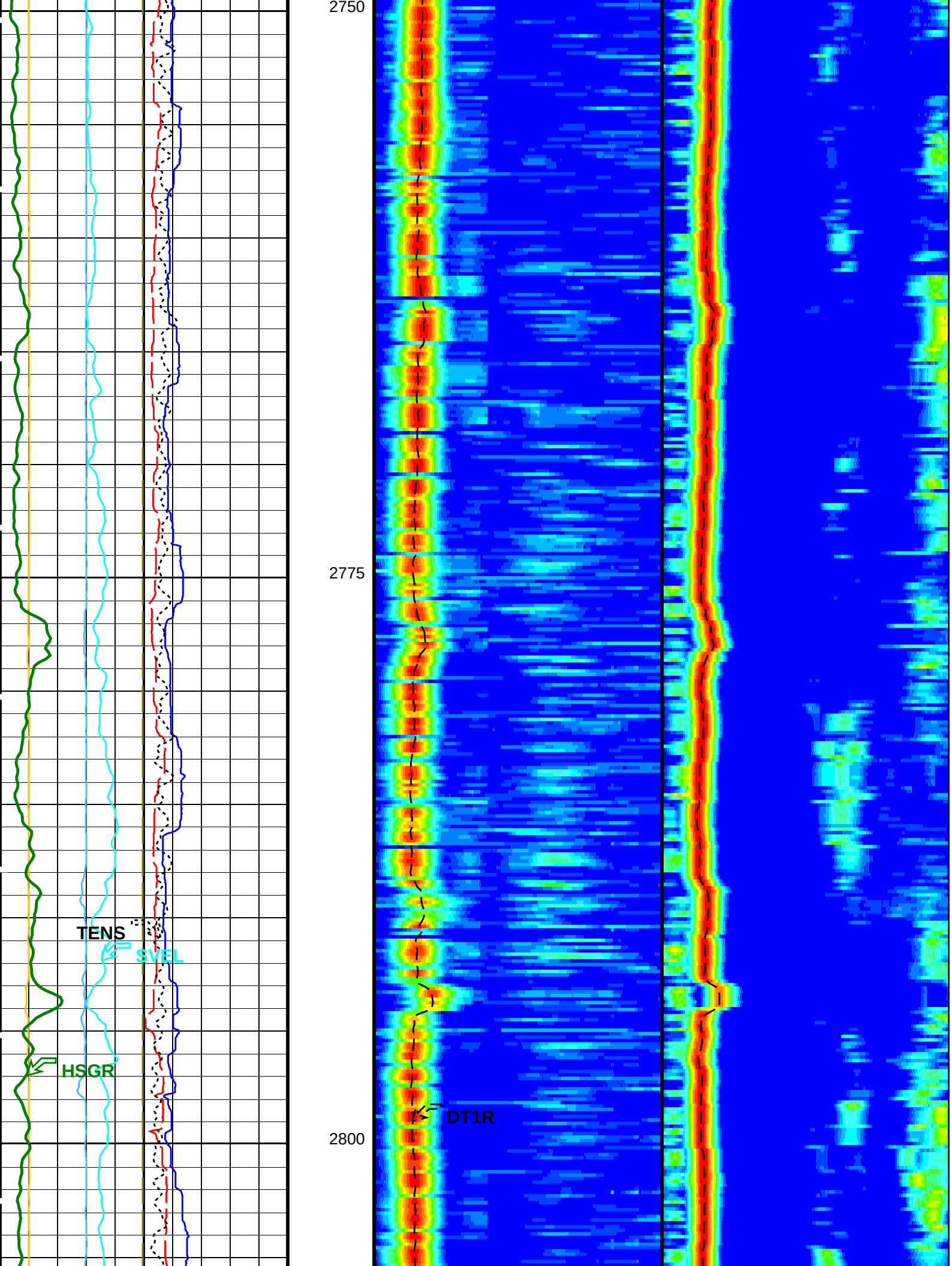
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2775
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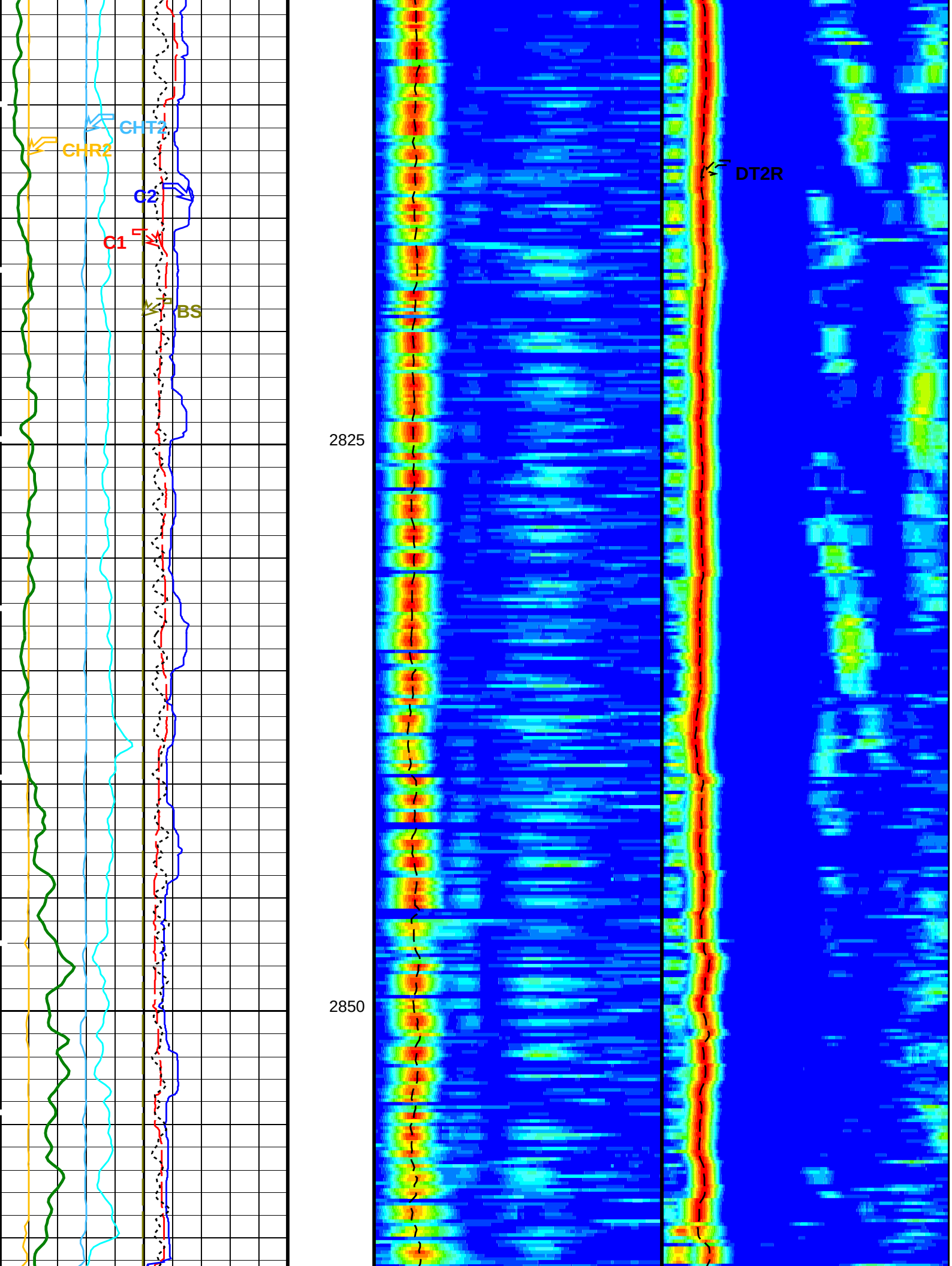
TENS
SVEL
HSGR
DT1R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CHR2
C2
C1
BS
DT2R
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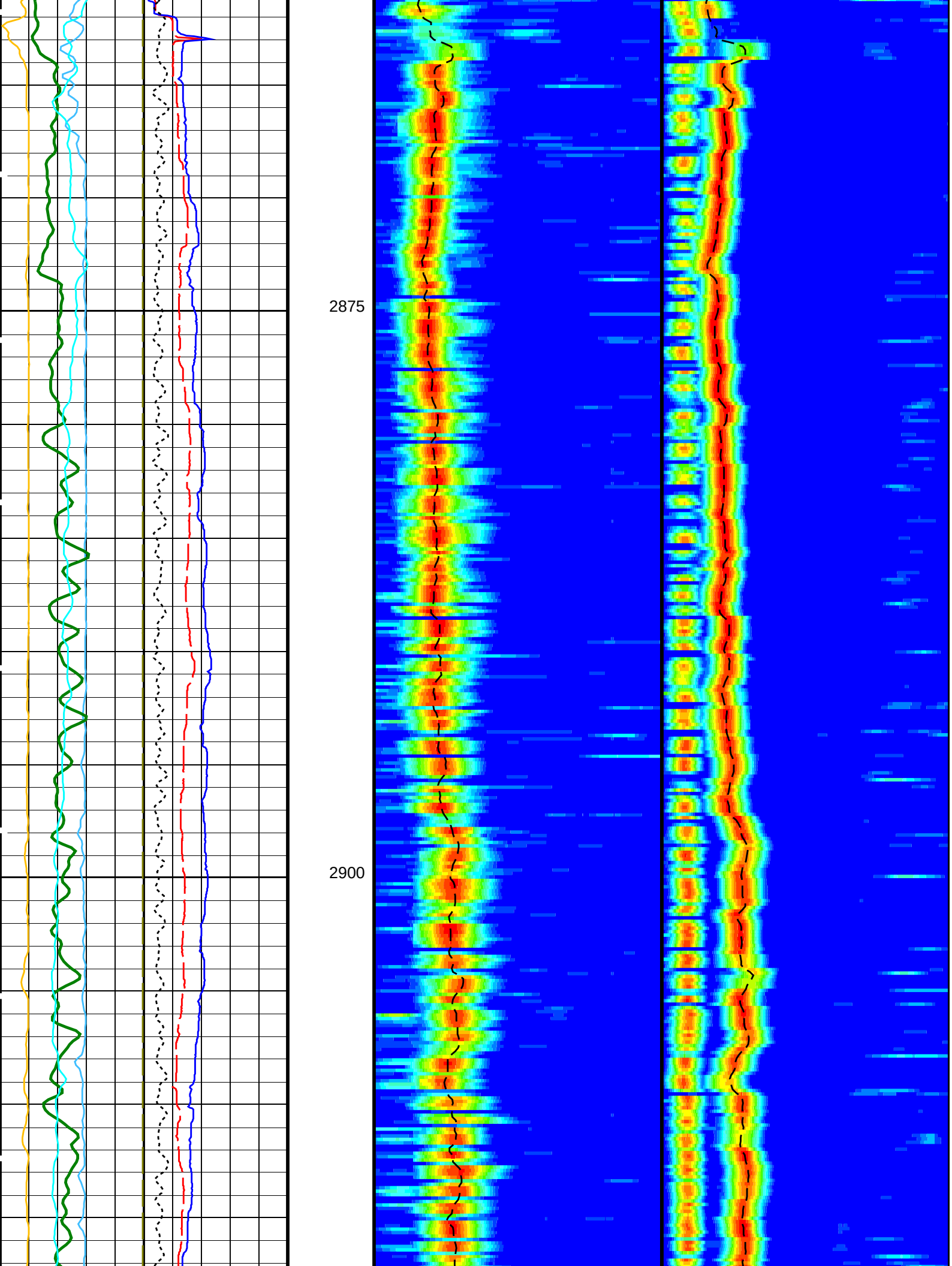
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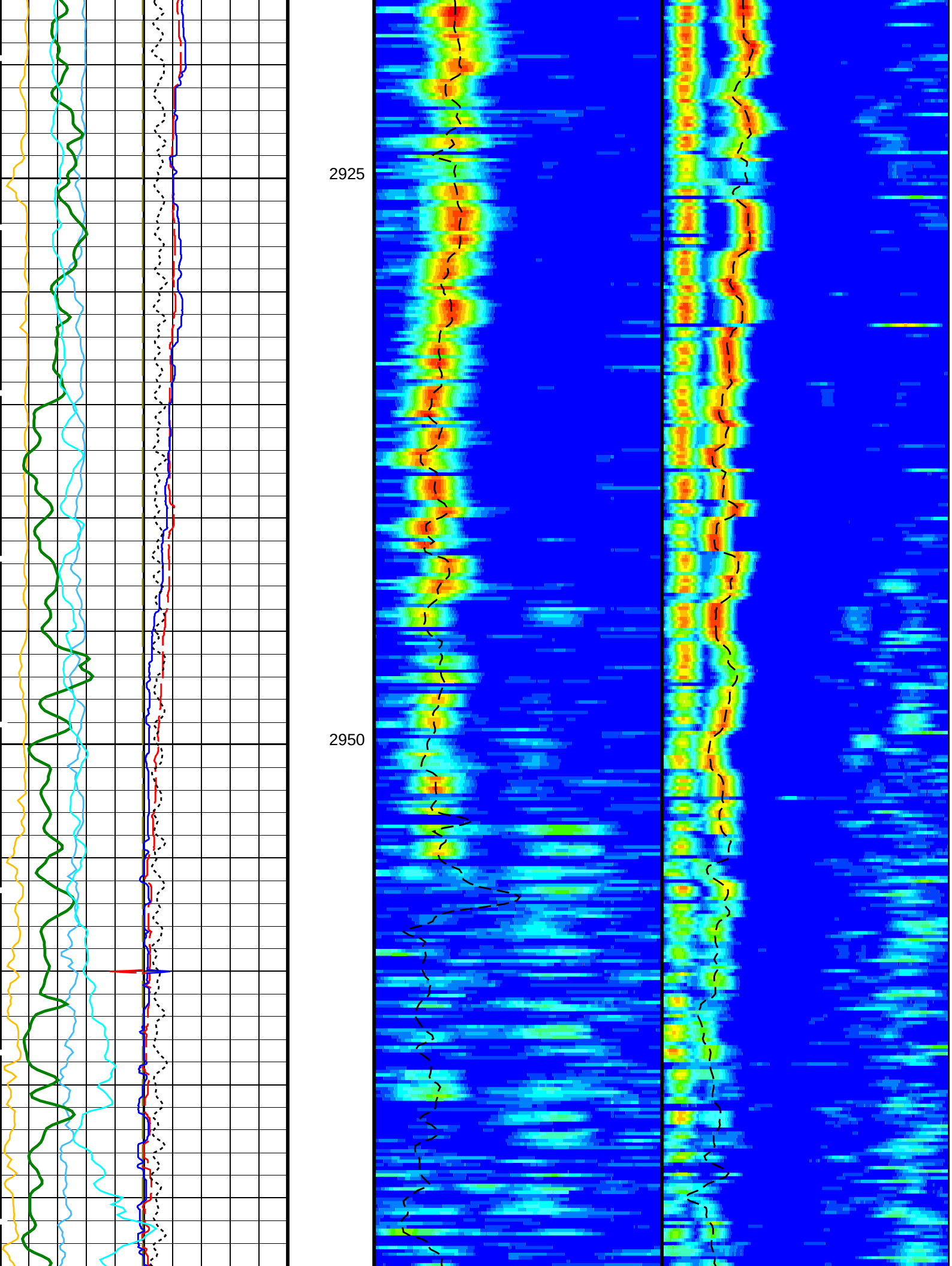
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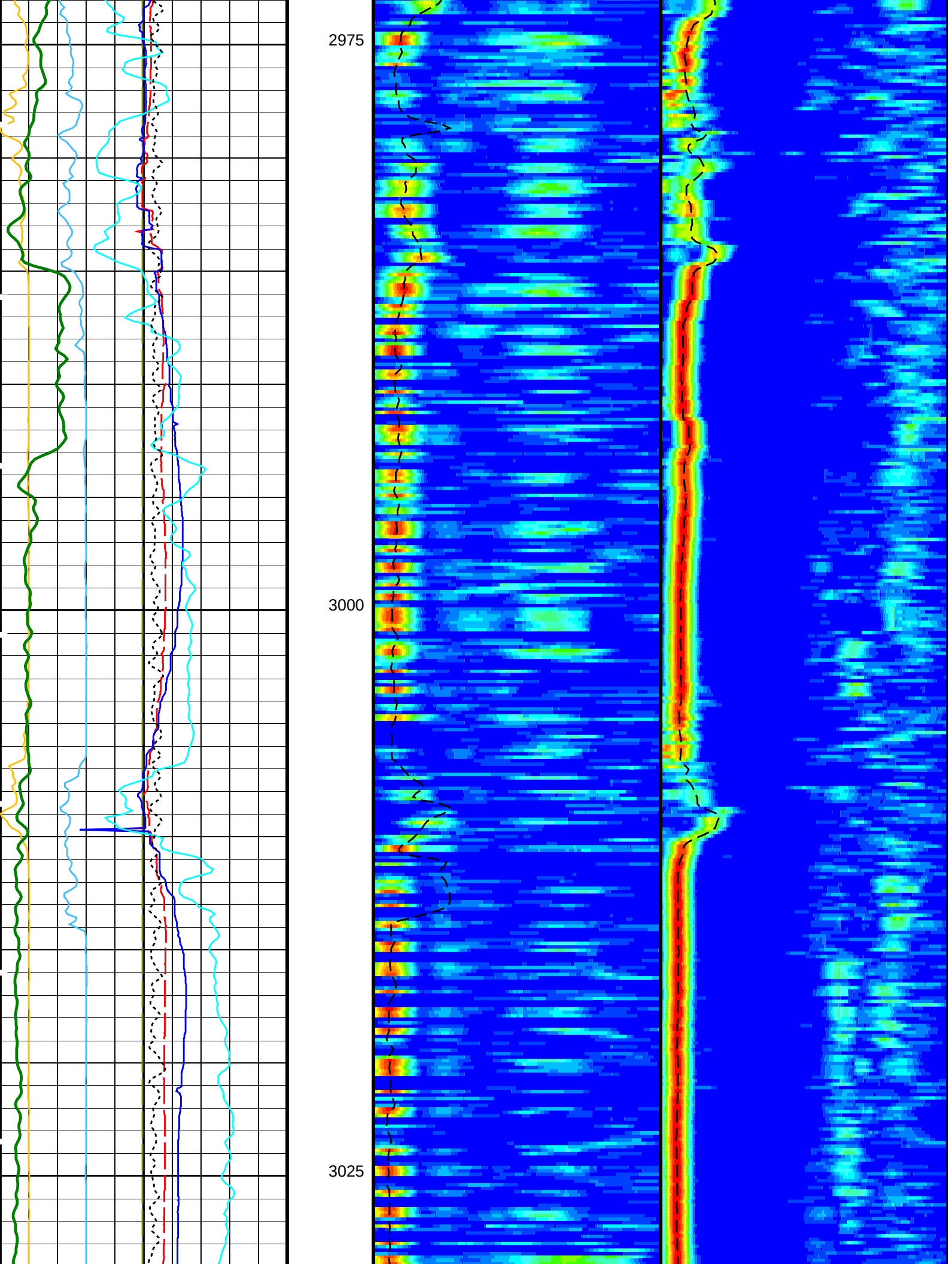
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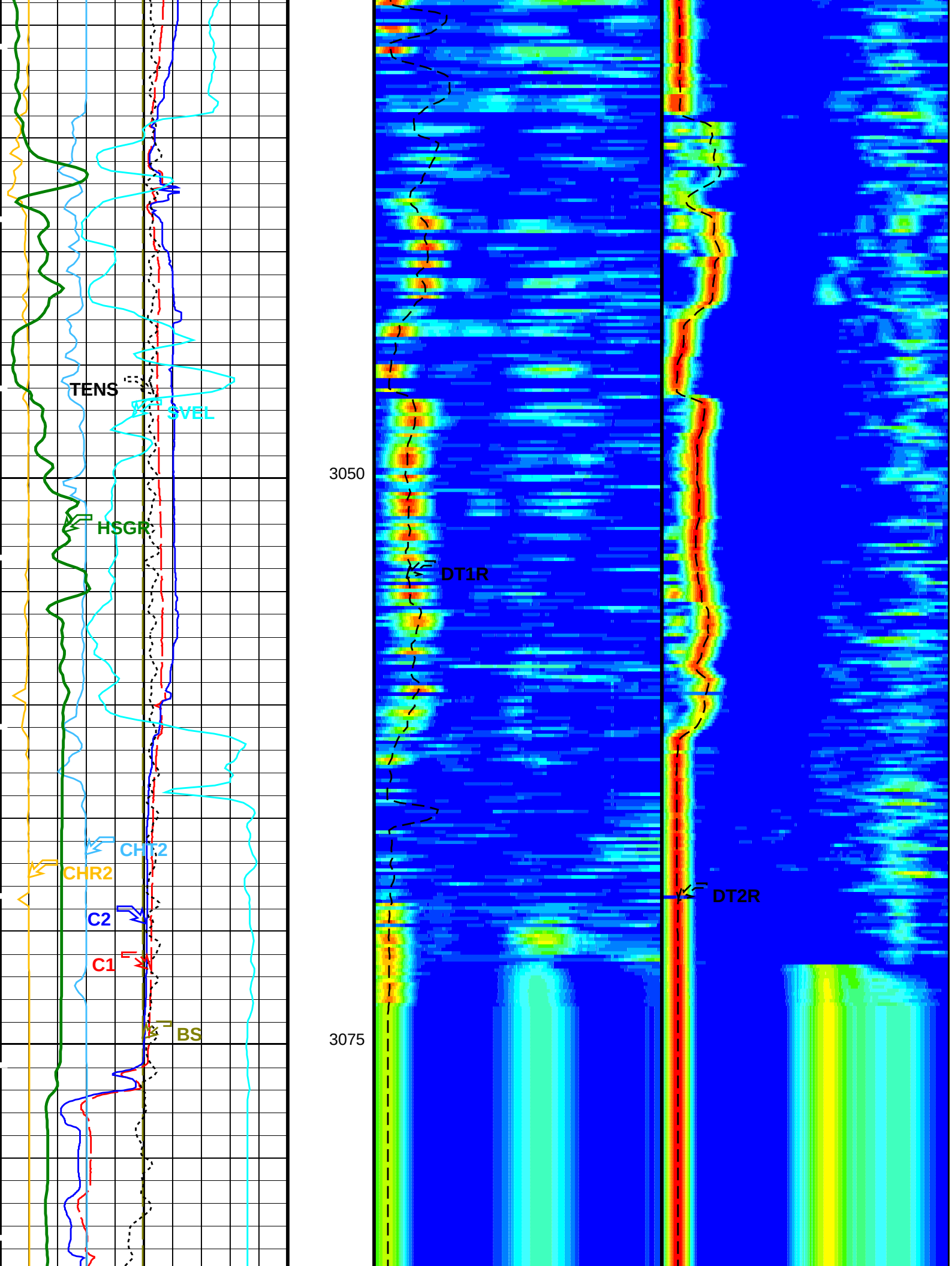
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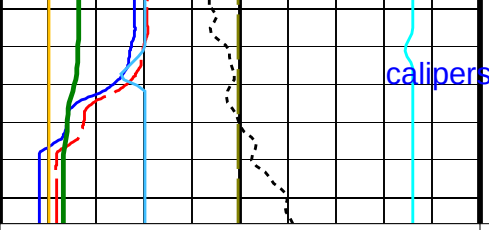
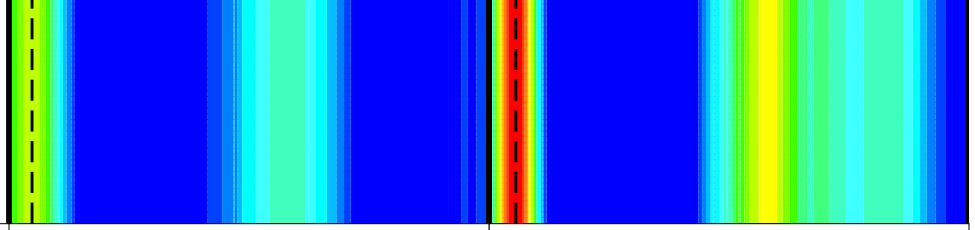
SVEL
HSGR
CHR2
CHR2
C2
C1
BS
3050
3075
DT1R
DT2R





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)
40 (US/F) 1400

Delta−T Shear / RA − Upper Dipole (DT2R)
40 (US/F) 1400

Min Amplitude Max

Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
40 (US/F) 1400

Min Amplitude Max

Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
40 (US/F) 1400

Uplog 2

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	40	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	400	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
GCSE	Generalized Caliper Selection	C1	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	32	
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		

SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert BCR		
SAS1	STC Sonic Array Status − Lower Dipole	255	
SAS2	STC Sonic Array Status − Upper Dipole	255	
SBO1	STC Search Band Offset − Lower Dipole	3000	US
SBO2	STC Search Band Offset − Upper Dipole	3000	US
SBW1	STC Search Bandwidth − Lower Dipole	8000	US
SBW2	STC Search Bandwidth − Upper Dipole	8000	US
SFC1	STC Formation Character − Lower Dipole	SELECTABLE	
SFC2	STC Formation Character − Upper Dipole	SELECTABLE	
SFM1	STC Filter − Lower Dipole	B.3−1.5K	
SFM2	STC Filter − Upper Dipole	B1−2K	
SLL1	STC Slowness Lower Limit − Lower Dipole	40	US/F
SLL2	STC Slowness Lower Limit − Upper Dipole	40	US/F
SST1	STC Slowness Step − Lower Dipole	4	US/F
SST2	STC Slowness Step − Upper Dipole	4	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform − Upper Dipole	WF_SAM2	
SUL1	STC Slowness Upper Limit − Lower Dipole	1400	US/F
SUL2	STC Slowness Upper Limit − Upper Dipole	1400	US/F
SWD1	STC Slowness Width − Lower Dipole	40	US/F
SWD2	STC Slowness Width − Upper Dipole	40	US/F
TBF1	STC Time for Baseline Fill − Lower Dipole	0	US
TBF2	STC Time for Baseline Fill − Upper Dipole	0	US
TLL1	STC Time Lower Limit − Lower Dipole	600	US
TLL2	STC Time Lower Limit − Upper Dipole	600	US
TST1	STC Time Step − Lower Dipole	200	US
TST2	STC Time Step − Upper Dipole	200	US
TUL1	STC Time Upper Limit − Lower Dipole	20440	US
TUL2	STC Time Upper Limit − Upper Dipole	20440	US
TWD1	STC Time Width − Lower Dipole	2000	US
TWD2	STC Time Width − Upper Dipole	2000	US
TWI1	STC Integration Time Window − Lower Dipole	1600	US
TWI2	STC Integration Time Window − Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00144791	
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	1.04904	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07033	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	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: 09−Mar−2022 21:20**

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

Output DLIS Files

DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20		

Company: International Ocean Discovery Program — Well: Expedition 392, Site U1580A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20	3090.7 M	2562.6 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	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

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

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (−−−−) 10

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

Peak Coherence / RA − P & S Comp (CHRP)
0 (−−−−) 10

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

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

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

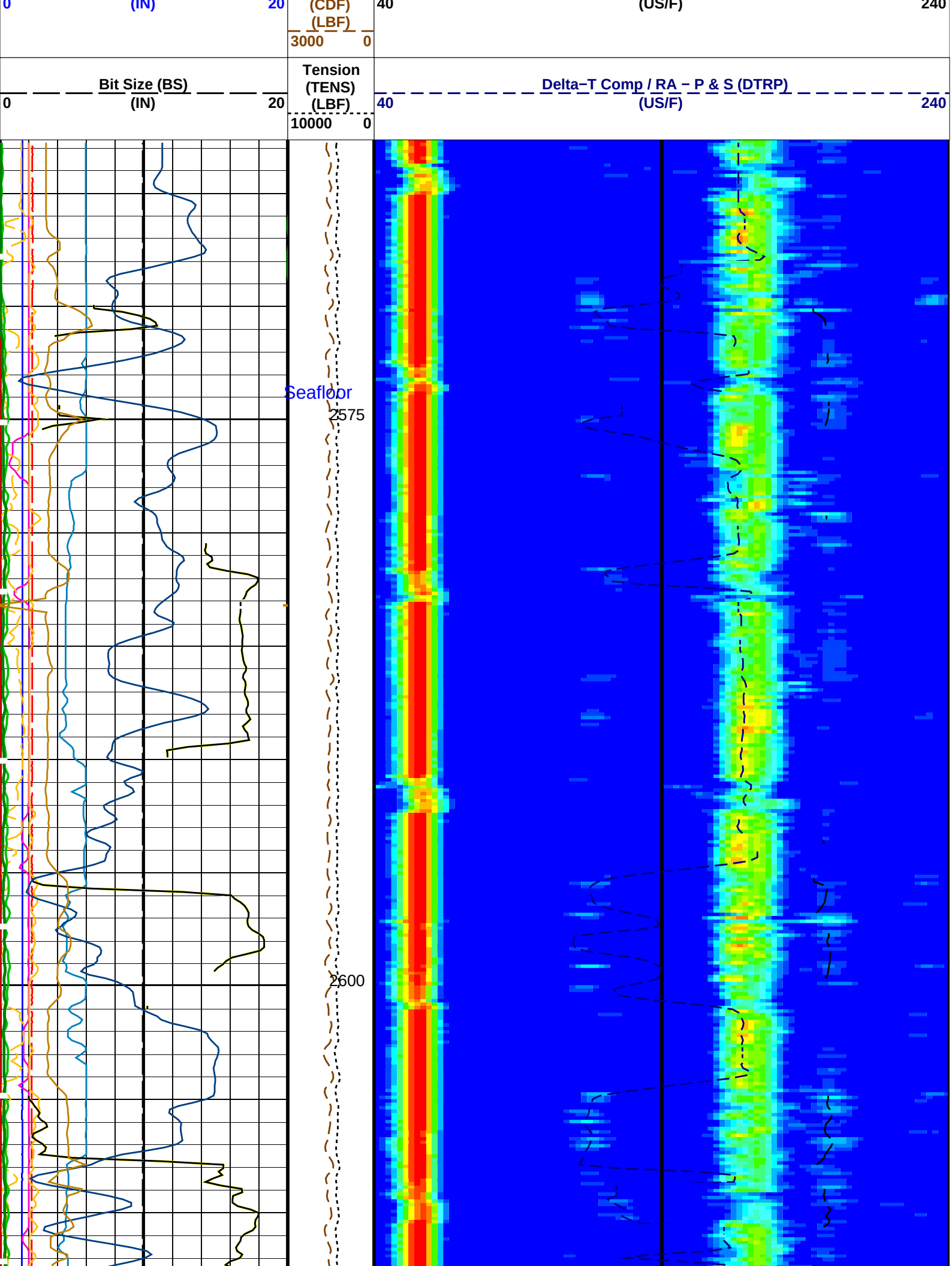
Caliper 2 (C2)

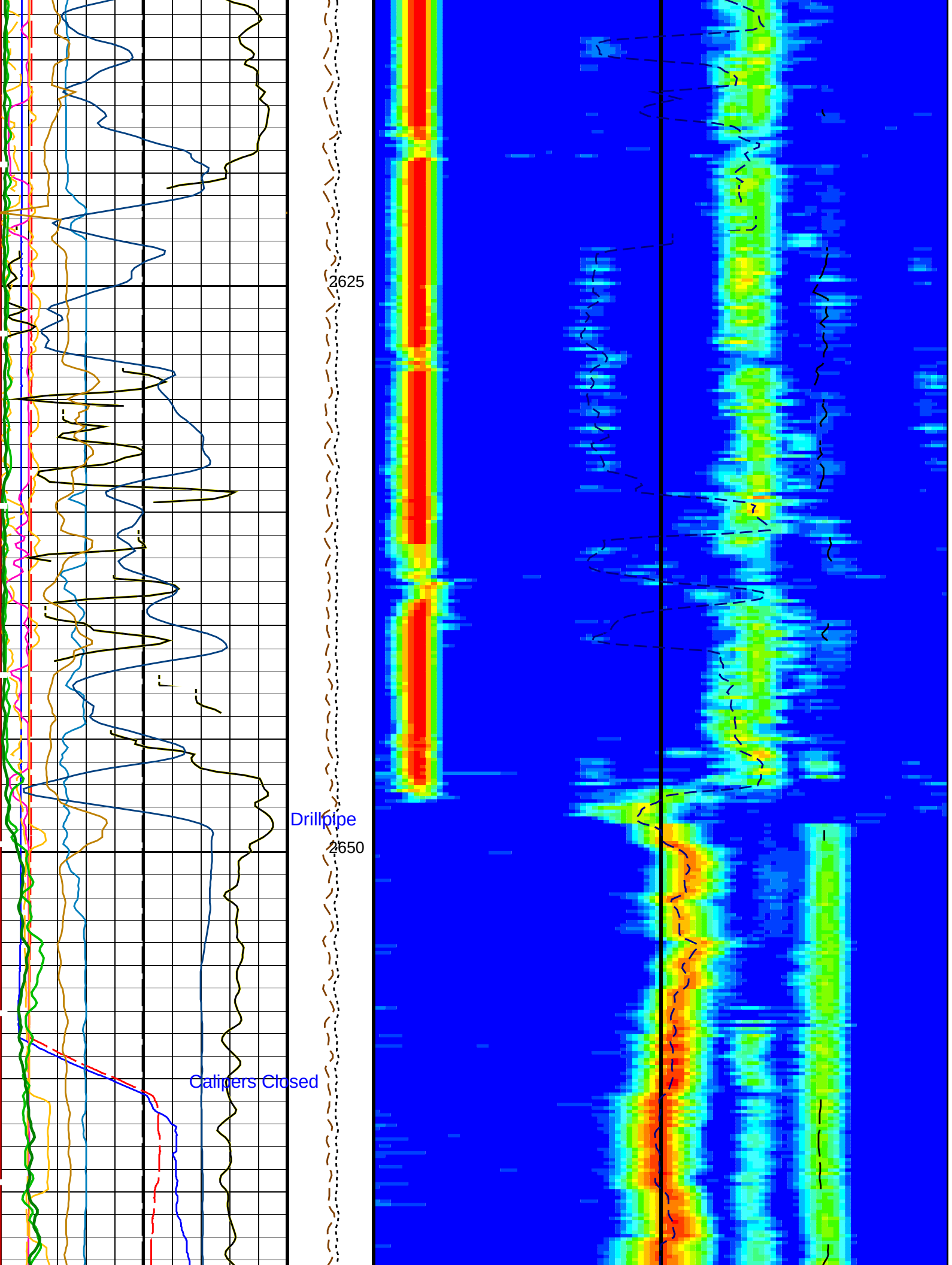
Calibrated Downhole Force

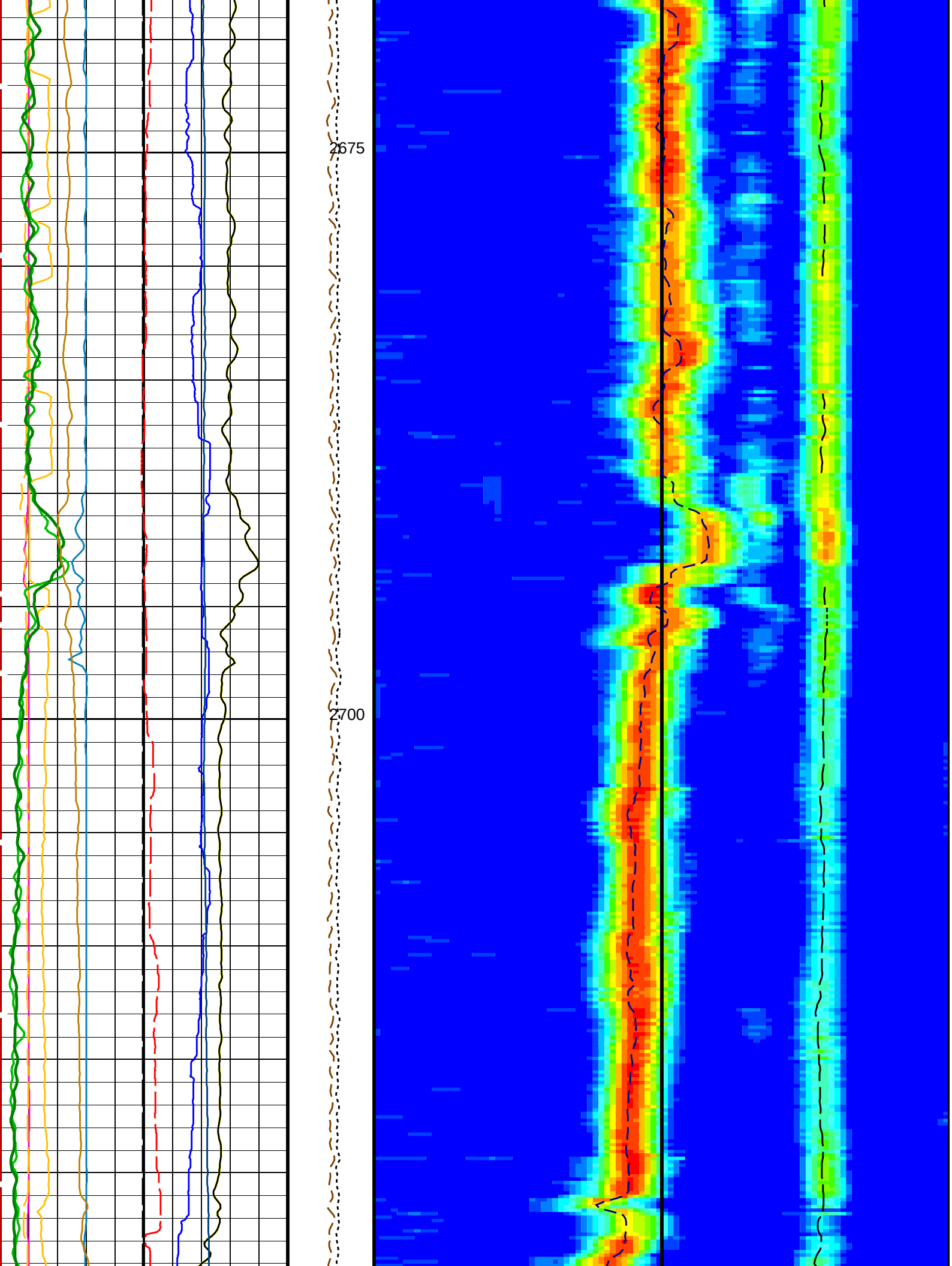
Uplog 2

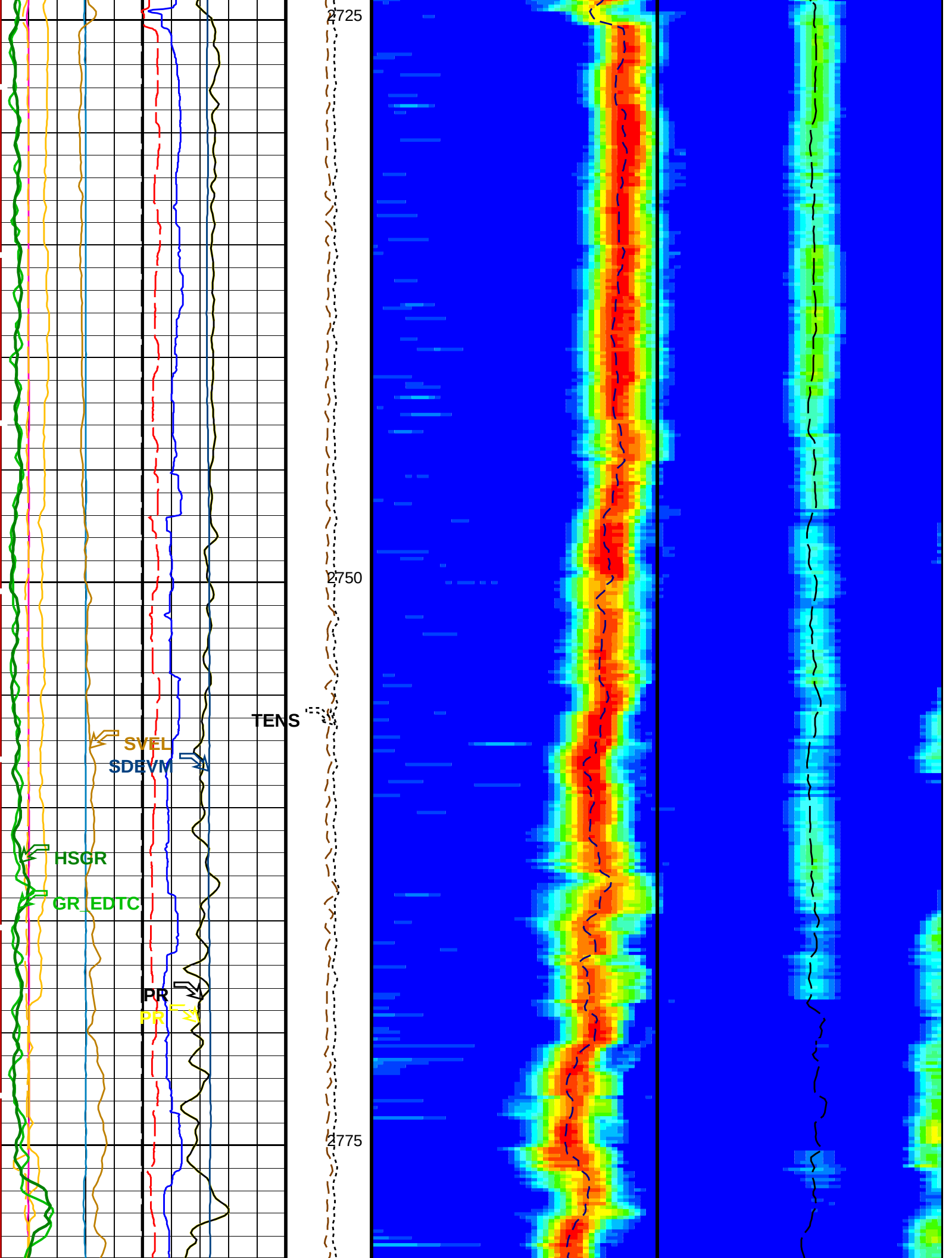
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

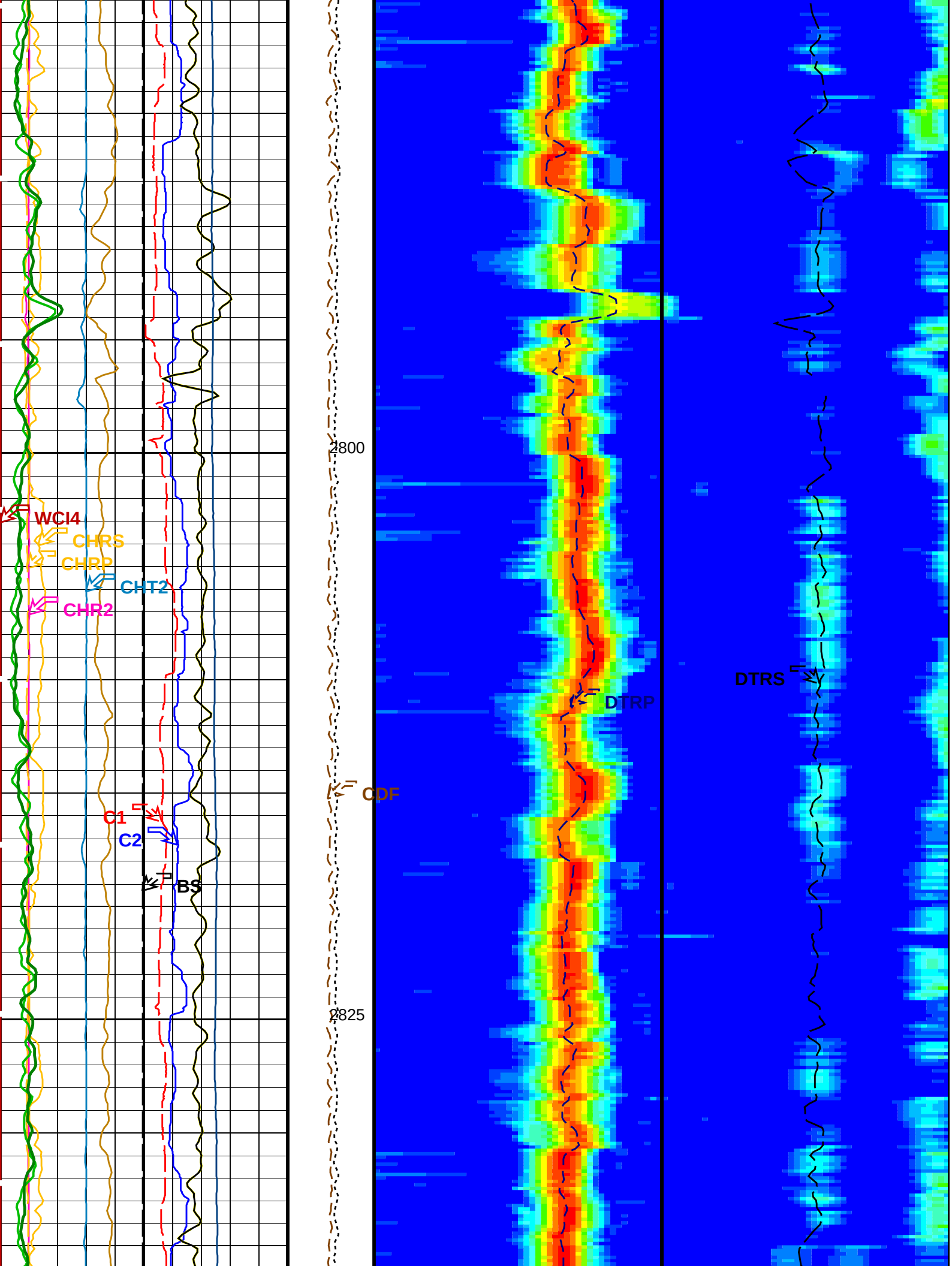
Delta−T Shear / RA − P & S (DTRS)

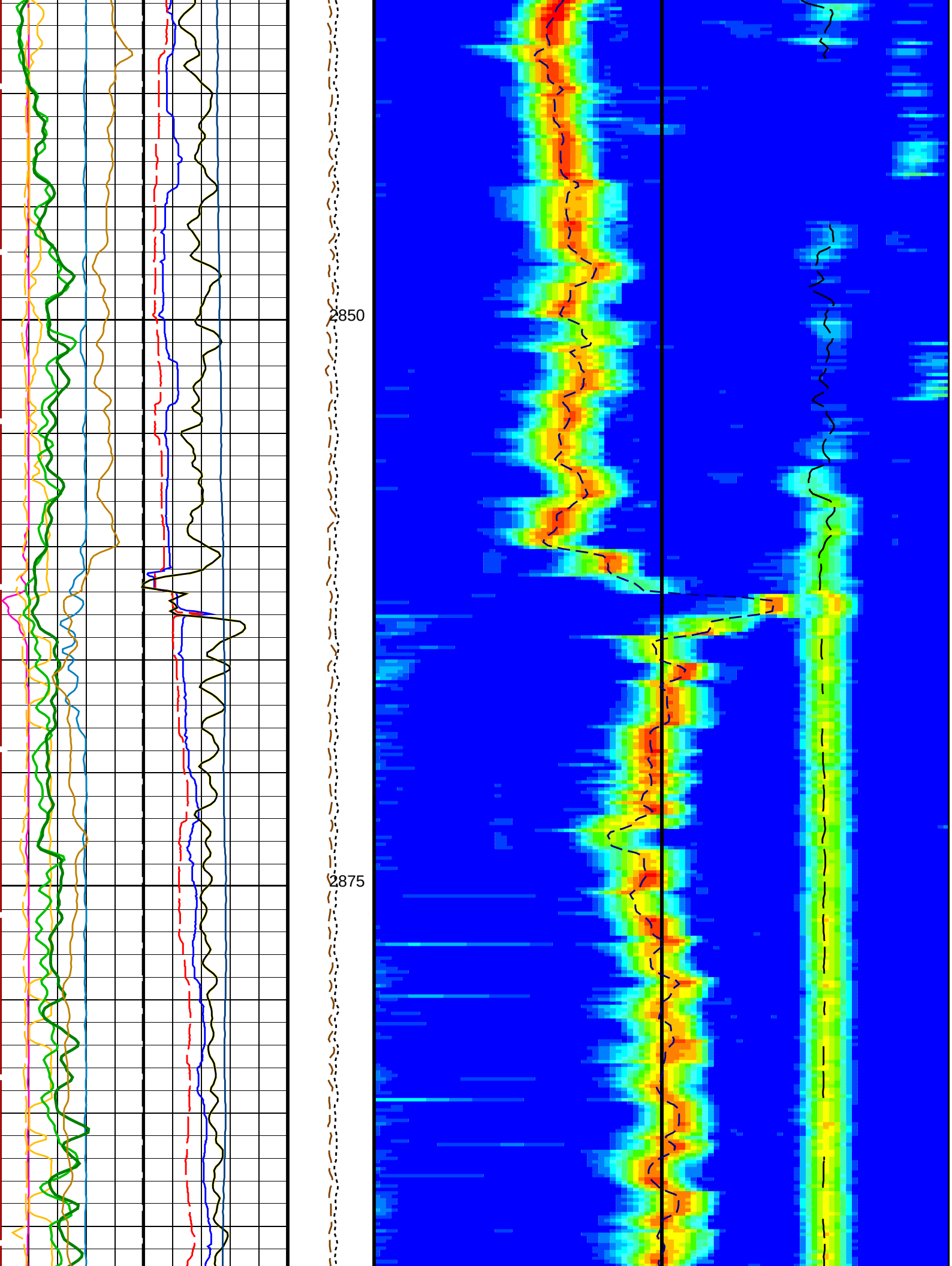

0
(IN)
20
(CDF)
(LBF)
3000
0
40
(US/F)
240
Bit Size (BS)
0
(IN)
20
Tension
(TENS)
(LBF)
10000
0
Delta−T Comp / RA − P & S (DTRP)
40
(US/F)
240
Seafloor
2575
2600

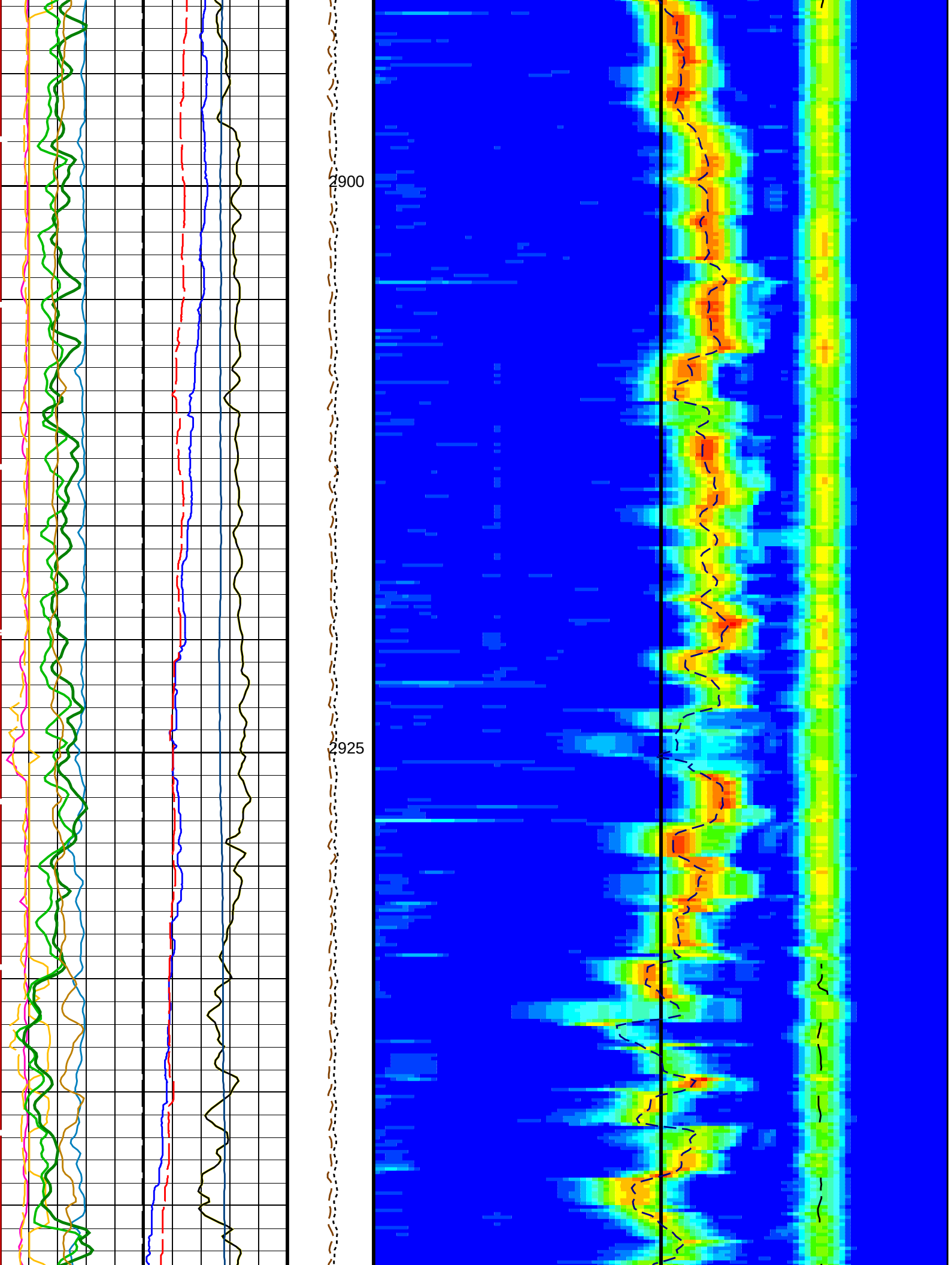

2625
Drillpipe
2650
Calipers Closed

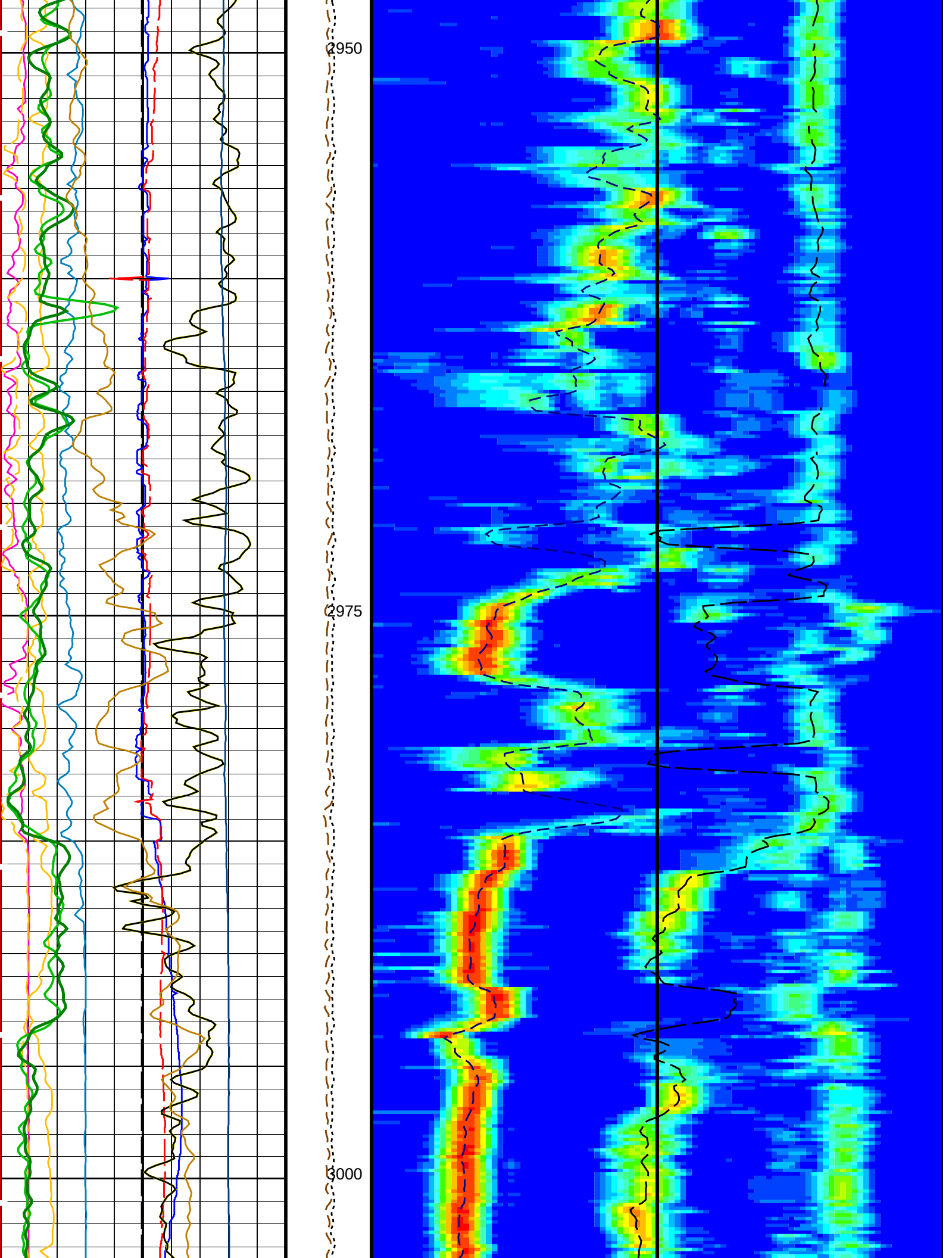

2675
2700

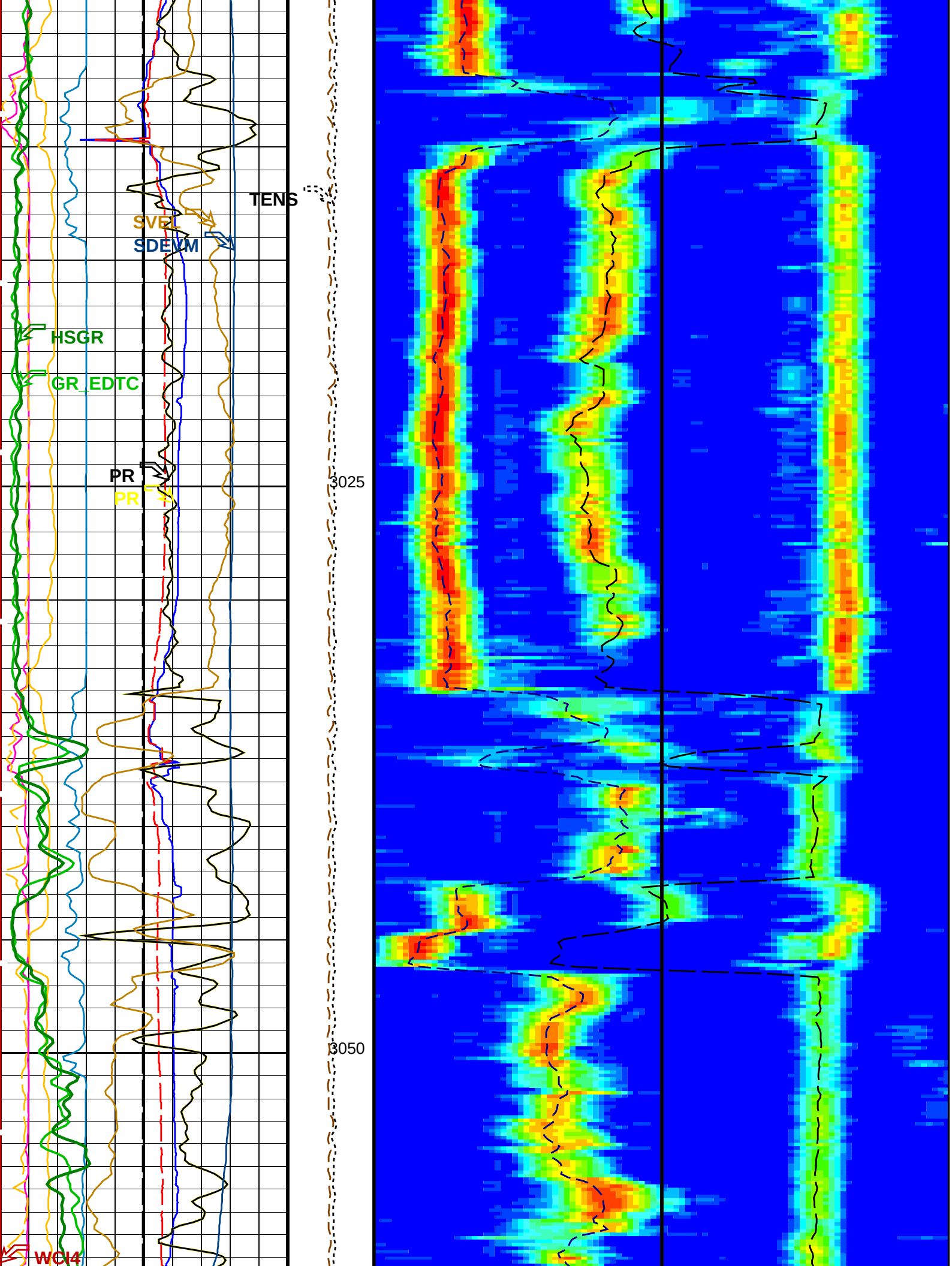

2725
2750
2775
TENS
SVEL
SDEVM
HSGR
GR_EDTC
PR
PR

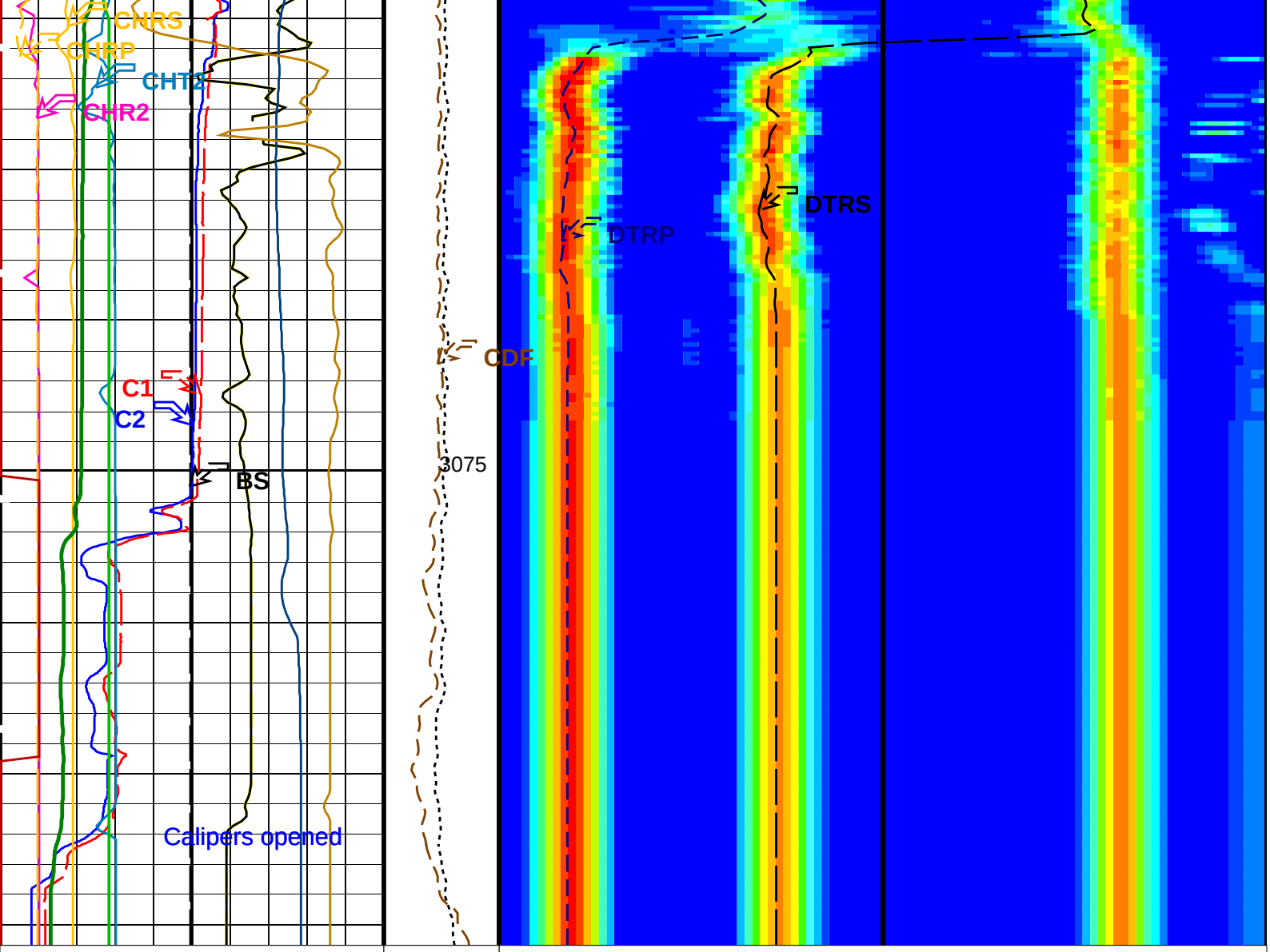

WCI4
CHRS
CHRP
CHT2
CHR2
C1
C2
BS
2800
CDF
DTRP
DTRS
2825


2850
2875


2900
2925


2950
2975
3000


TENS
SVEL
SDEVM
HSGR
GR_EDTC
PR
PR
3025
3050
WCI4



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Comp / RA − P & S (DTRP) 40 (US/F) 240
Caliper 2 (C2) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 3000 0	Delta−T Shear / RA − P & S (DTRS) 40 (US/F) 240
Caliper 1 (C1) 0 (IN) 20		Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240
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		
Gamma Ray (GR_EDTC) 0 (GAPI) 100		

Uplog 2

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

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	−35.0569	DEG
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	55	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	130	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	40	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	400	US/F
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DTF	Delta−T Fluid	212	US/F
DTSS	Shear Delta−T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	32	
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	BCR	
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	90	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	200	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	
	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	−0.00144791	
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	1.04904	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07033	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	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: 09−Mar−2022 21:20

OP System Version: 19C0−187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_063PUP	FN:85	PRODUCER	09−Mar−2022 21:20		

Company: International Ocean Discovery Program Well: Expedition 392, Site U1579 A

Output DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 M
BACKUP	FMS_DSI_NGS_031LUP	FN:44	PRODUCER	06−Mar−2022 12:11	3090.7 M	2562.6 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	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

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

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

Gamma Ray (GR_EDTC)
0 (GAPI) 100

Bit Size (BS)
0 (IN) 20

Relative Bearing (RB_MEST)
−40 (DEG) 360

Pad One Azimuth (P1AZ_MEST)
−40 (DEG) 360

Hole Azimuth (HAZIM)
−40 (DEG) 360

Deviation (DEVIM)
0 (DEG) 10

Caliper 2 (C2)
0 (IN) 20

EMEX Intensity (EI)
0 (AMPS) 10

Caliper 1 (C1)
0 (IN) 20

EMEX Voltage (EV)
0 (V) 50

Data Button 8 − Varies with RBS (U−MEST_RB8)
−80 (−−−−) 20

Data Button 7 − Varies with RBS (U−MEST_RB7)
−70 (−−−−) 30

Data Button 6 − Varies with RBS (U−MEST_RB6)
−60 (−−−−) 40

Data Button 5 − Varies with RBS (U−MEST_RB5)
−50 (−−−−) 50

Data Button 4 − Varies with RBS (U−MEST_RB4)
−40 (−−−−) 60

Data Button 3 − Varies with RBS (U−MEST_RB3)
−30 (−−−−) 70

Data Button 2 − Varies with RBS (U−MEST_RB2)
−20 (−−−−) 80

Data Button 1 − Varies with RBS (U−MEST_RB1)
−10 (−−−−) 90

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

MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU) (−−−−)

MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU) (−−−−)

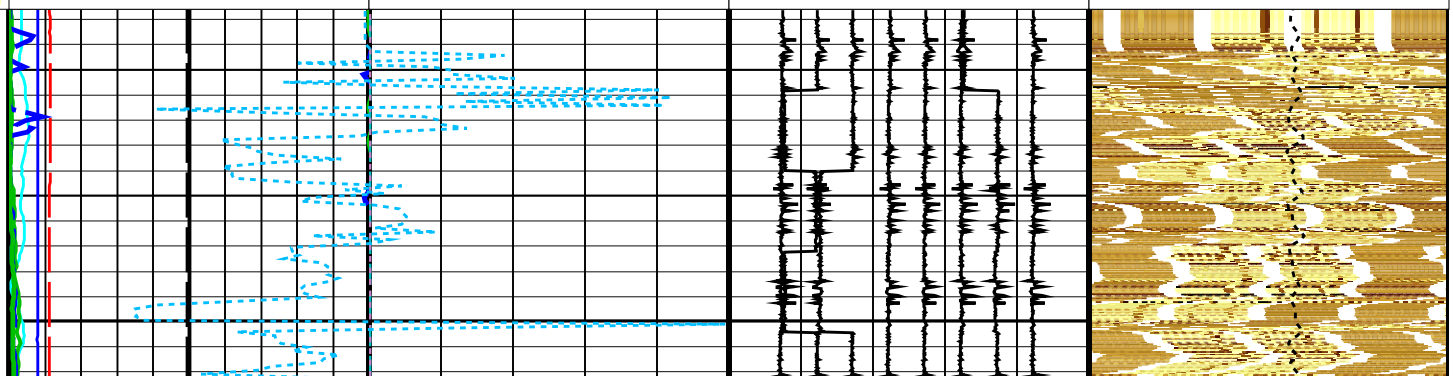
MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU) (−−−−)

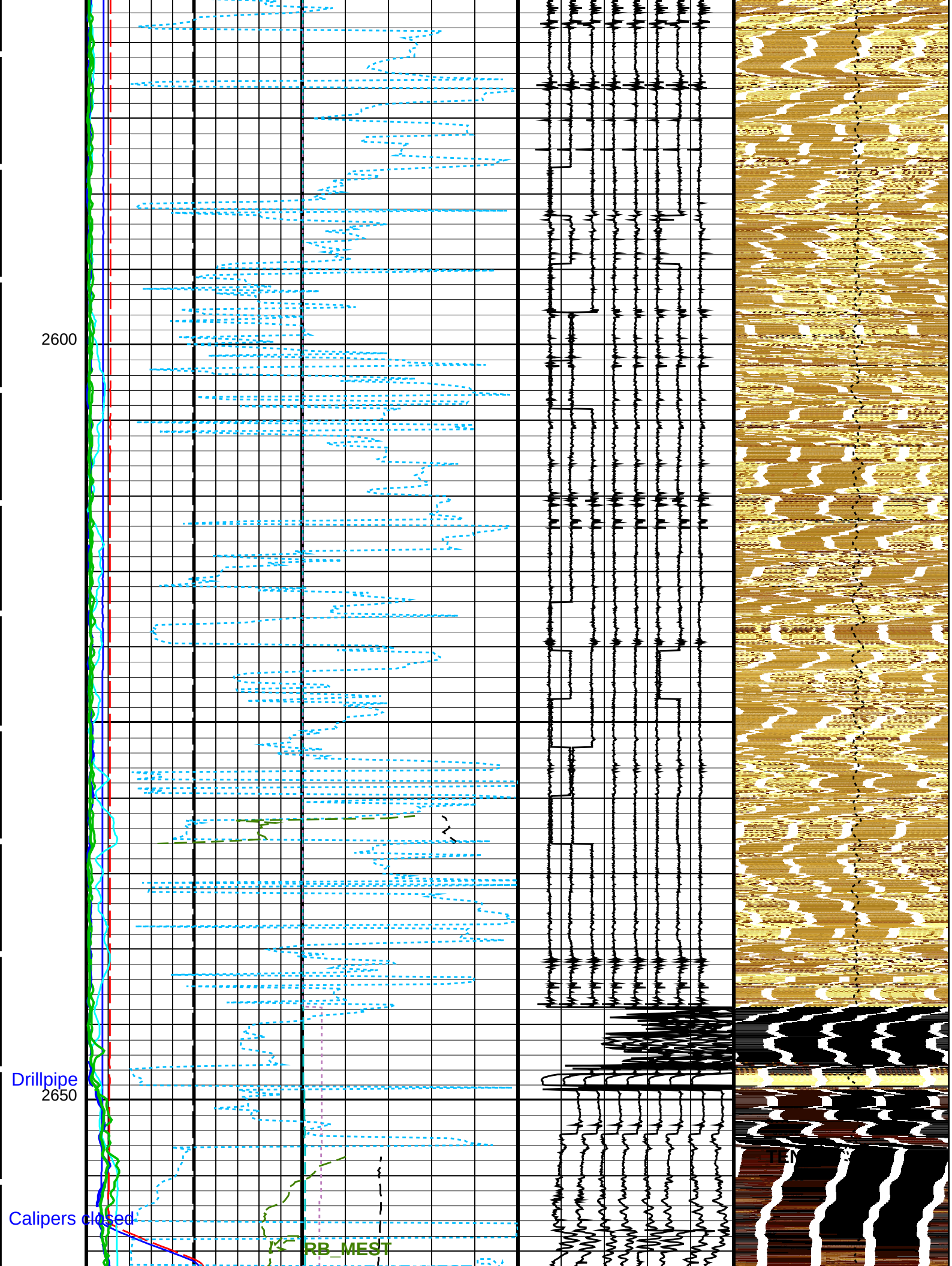
MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU) (−−−−)

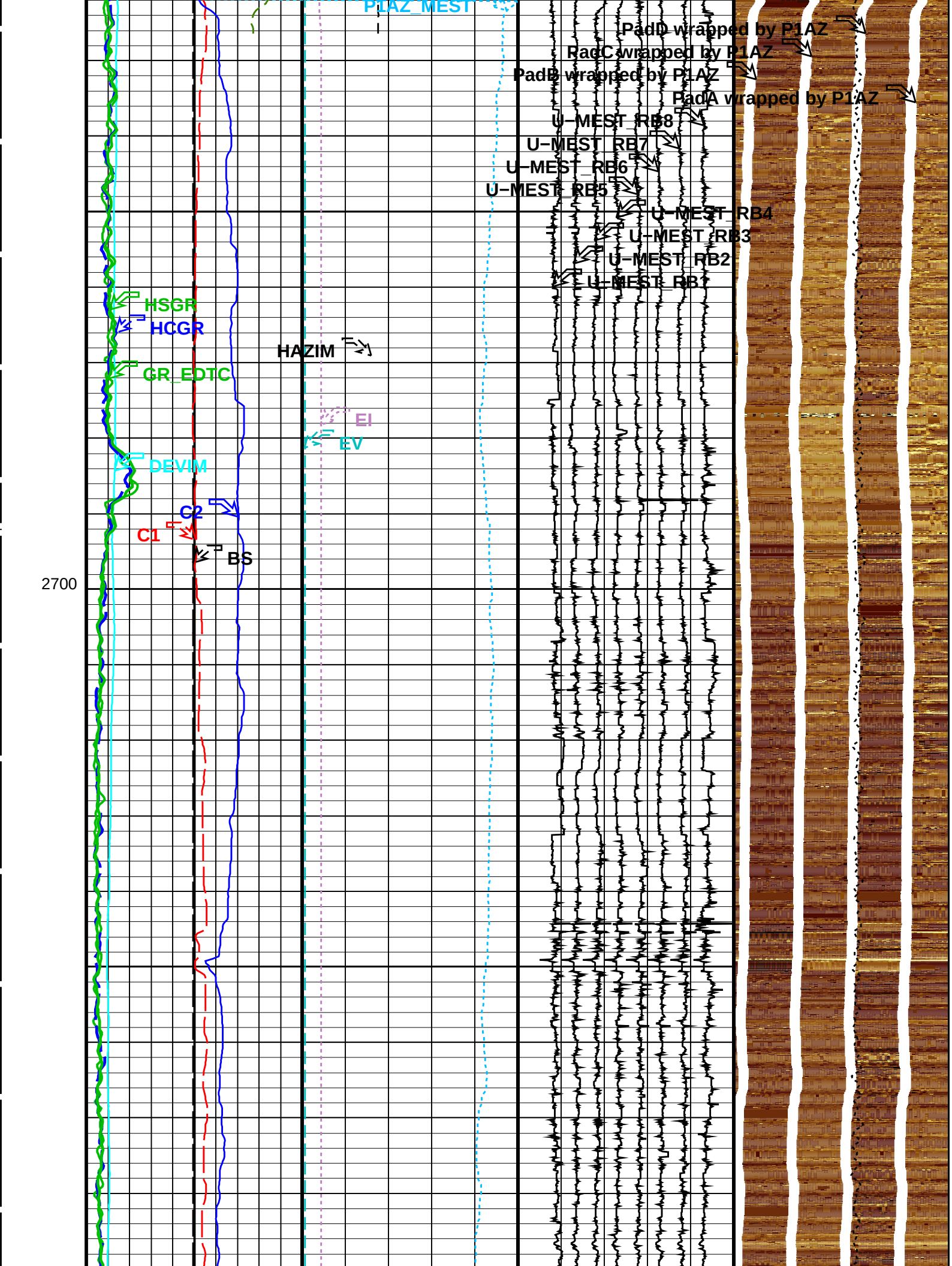
Tension (TENS)
10000 (LBF) 0

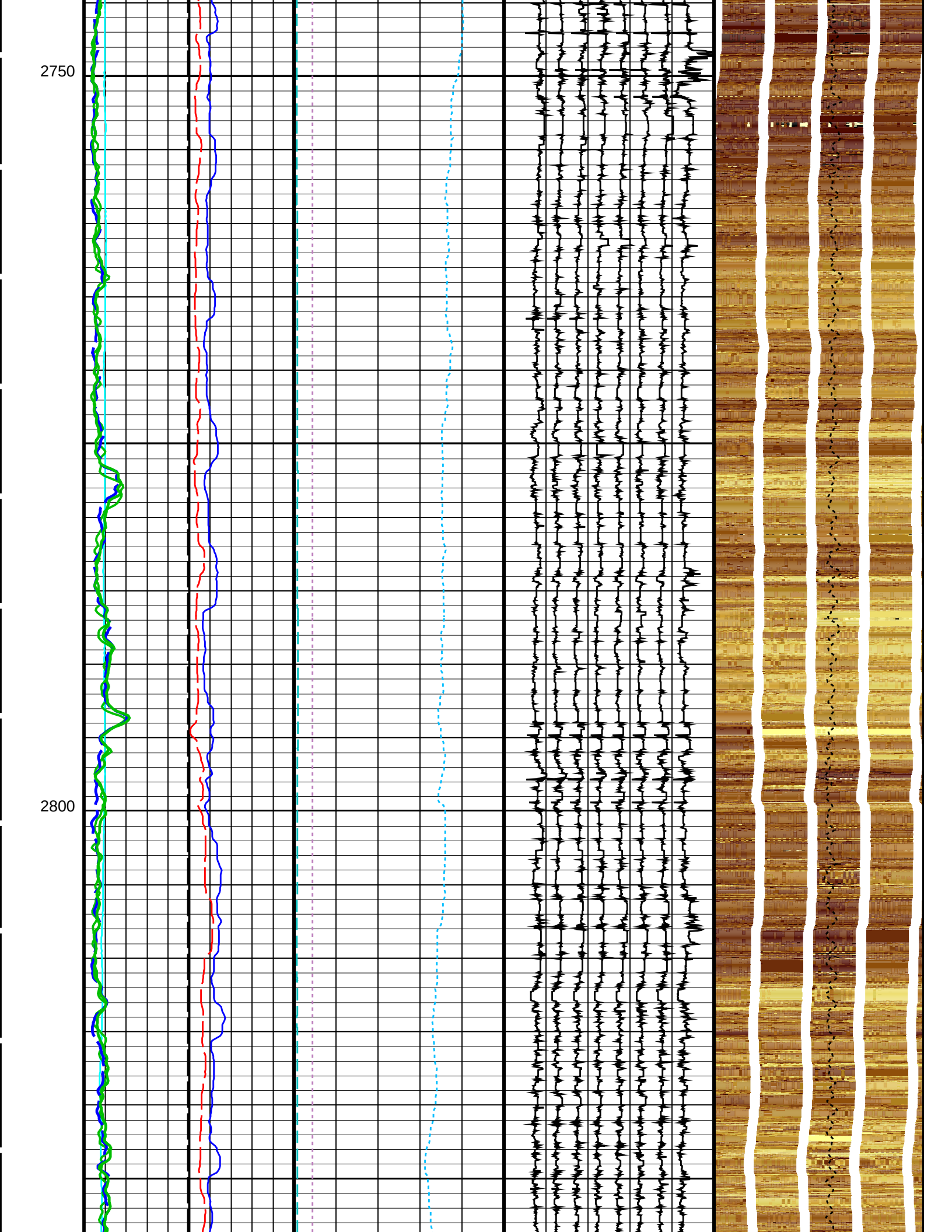
Uplog 2

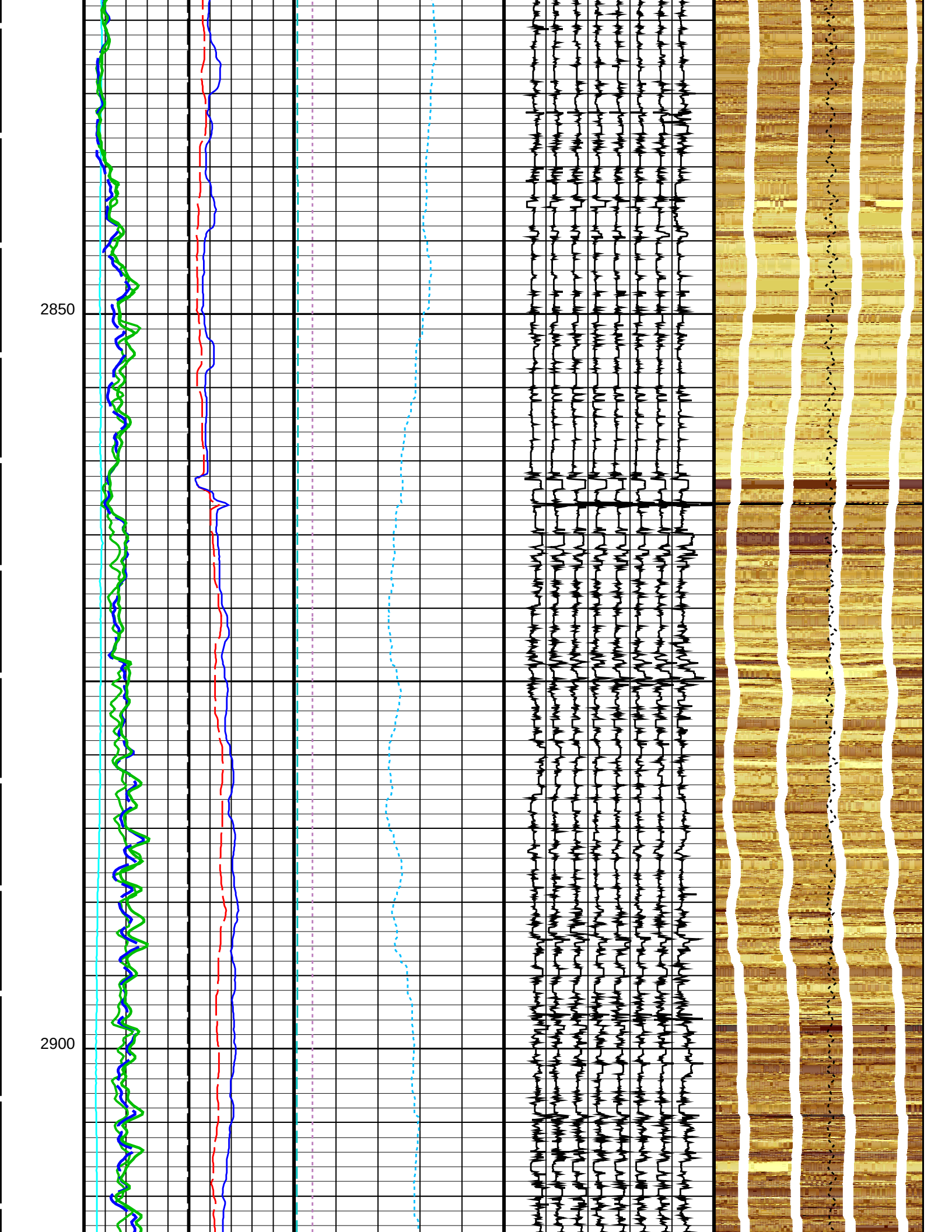
Seafloor

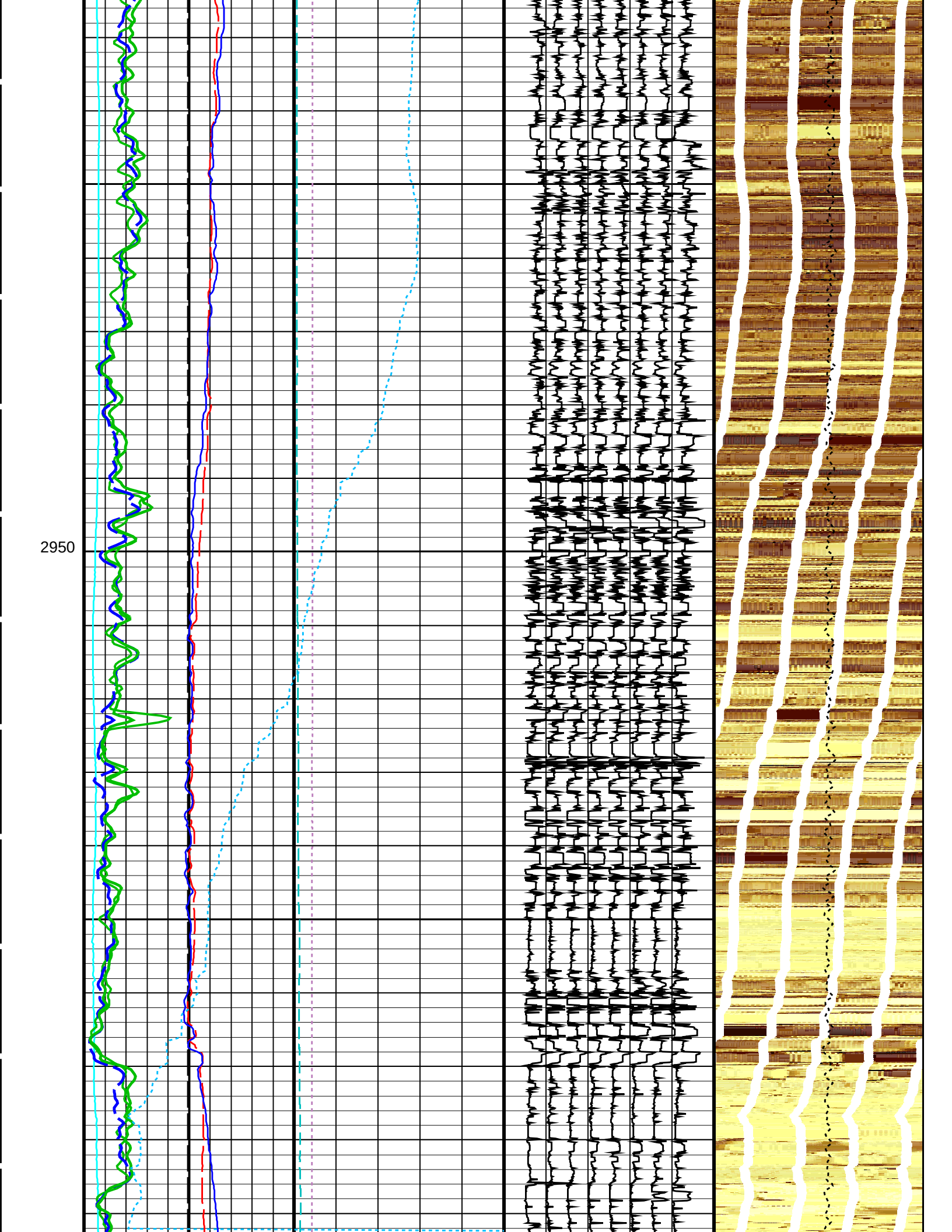


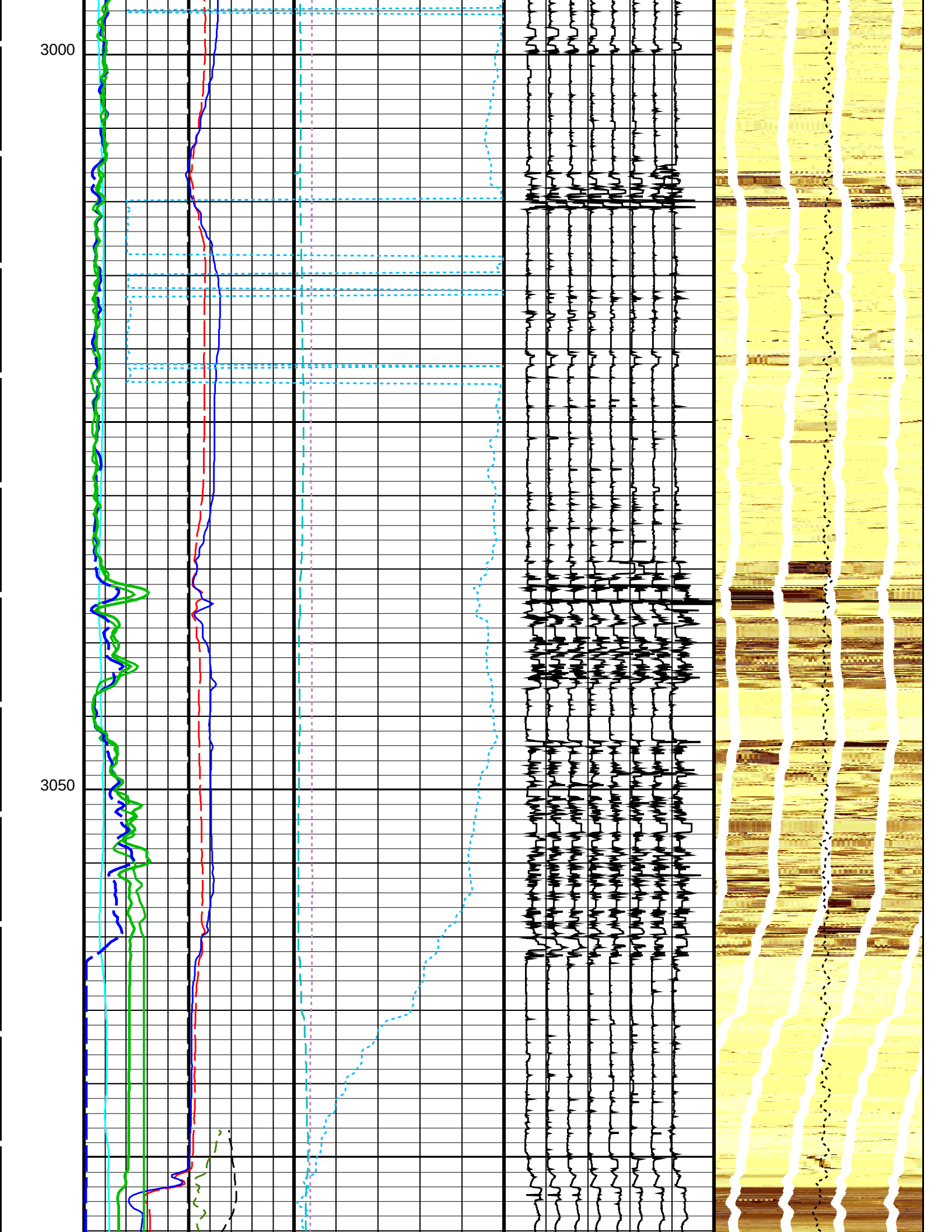

2600
Drillpipe
2650
Calipers closed
RB_MEST

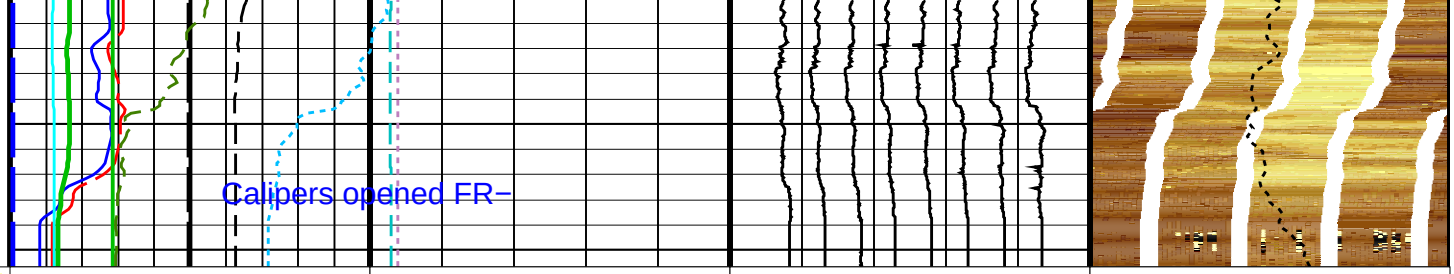

P1AZ_MEST
PadD wrapped by P1AZ
PadC wrapped by P1AZ
PadB wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST_RB8
U-MEST_RB7
U-MEST_RB6
U-MEST_RB5
U-MEST_RB4
U-MEST_RB3
U-MEST_RB2
U-MEST_RB1
HSGR
HCGR
HAZIM
GR_EDTC
EI
EV
DEVIM
C2
C1
BS
2700


2750
2800


2850
2900


2950


3000
3050



Uplog 2

Caliper 1 (C1) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90	Tension (TENS) 10000 (LBF) 0
Caliper 2 (C2) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	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 MEST_PADA (U−MEST_RESISTIVITY_PADA_EQU) (−−−−)
Deviation (DEVIM) 0 (DEG) 10		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	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 MEST_PADB (U−MEST_RESISTIVITY_PADB_EQU) (−−−−)
Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	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 MEST_PADC (U−MEST_RESISTIVITY_PADC_EQU) (−−−−)
Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	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 MEST_PADD (U−MEST_RESISTIVITY_PADD_EQU) (−−−−)
Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
Bit Size (BS) 0 (IN) 20		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30	
Gamma Ray (GR_EDTC) 0 (GAPI) 100		Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20	
HNGS Computed Gamma Ray (HCGR) 0 (GAPI) 100			
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	−35.0569	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
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	−0.00144799	
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	1.04904	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07033	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:300 Graphics File Created: 06−Mar−2022 12:11

OP System Version: 19C0−187

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

Output DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:43	PRODUCER	06−Mar−2022 12:11
BACKUP	FMS_DSI_NGS_031LUP	FN:44	PRODUCER	06−Mar−2022 12:11

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner − B (Slim) Wellsite Calibration − Caliper Calibration							
Before: 18−Feb−2022 18:47							
Caliper 1 Zero Measurement	12.00	N/A	12.63	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.77	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.20	N/A	15.78	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.20	N/A	15.76	N/A	N/A	N/A	IN
Micro Electrical Scanner − B (Slim) Wellsite Calibration − CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 6−Mar−2022 7:43							
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: 6−Mar−2022 7:43							
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: 13−Feb−2022 23:25 Before: 13−Feb−2022 23:31 After: 13−Feb−2022 23:36

Na 511 Peak Loc	40.00	39.60	39.35	39.61	0.2548	1.000	
Na 511 Peak Res	15.50	17.00	17.03	15.57	−1.463	2.000	%
High Voltage	1150	1202	1203	1204	0.4124	N/A	V
Na 1785 Peak Loc	142.6	142.6	141.9	142.9	1.014	7.000	
Na 1785 Peak Res	8.500	9.539	8.461	9.996	1.534	2.000	%
Temperature	15.50	27.53	27.56	27.63	0.06811	N/A	DEGC
Na Count Rate	45.00	10.98	10.73	11.29	0.5581	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check

Master: 13−Feb−2022 23:25 Before: 13−Feb−2022 23:31 After: 13−Feb−2022 23:36

Na 511 Peak Loc	40.00	40.51	40.45	40.84	0.3914	1.000	
Na 511 Peak Res	15.50	16.47	16.18	15.76	−0.4217	2.000	%
High Voltage	1150	1129	1129	1129	−0.2573	N/A	V
Na 1785 Peak Loc	142.6	145.0	144.7	147.0	2.293	7.000	
Na 1785 Peak Res	8.500	9.043	10.12	9.460	−0.6603	2.000	%
Temperature	15.50	28.33	28.25	28.19	−0.05676	N/A	DEGC
Na Count Rate	45.00	11.22	11.24	11.38	0.1345	8.000	CPS

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

Master: 13−Feb−2022 23:25 Before: 13−Feb−2022 23:31 After: 13−Feb−2022 23:36

Coincidence Count Rate Ratio	1.000	0.9687	0.9517	0.9802	0.02851	0.05000	

Hostile Natural Gamma Ray Sonde Master Calibration − Detector 1 Calibration

Master: 13−Feb−2022 23:19

Na 511 Peak Set Point	40.00	41.00	−−	−−	−−	−−	
Th Peak Loc	209.6	210.2	−−	−−	−−	−−	
Th Peak Res	7.000	7.307	−−	−−	−−	−−	%
Background Count Rate	142.5	22.81	−−	−−	−−	−−	CPS
Gain Ratio	1.000	1.009	−−	−−	−−	−−	

Hostile Natural Gamma Ray Sonde Master Calibration − Detector 2 Calibration

Master: 13−Feb−2022 23:19

Na 511 Peak Set Point	40.00	42.00	−−	−−	−−	−−	
Th Peak Loc	209.6	211.1	−−	−−	−−	−−	
Th Peak Res	7.000	7.436	−−	−−	−−	−−	%
Background Count Rate	142.5	22.96	−−	−−	−−	−−	CPS
Gain Ratio	1.000	0.9914	−−	−−	−−	−−	

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration

Before: 6−Mar−2022 7:43

EDTC Z−Axis Acceleration	9.810	N/A	9.828	N/A	N/A	N/A	M/S2

Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration

Before: 13−Feb−2022 22:35 After: 13−Feb−2022 22:44

Gamma Ray (Jig − Bkg)	163.4	N/A	163.4	165.6	2.160	14.86	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	166.2	2.168	15.00	GAPI

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

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
Master		39.60
Before		39.35
After		39.61
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		17.00
Before		17.03
After		15.57
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1202
Before		1203
After		1204
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		142.6
Before		141.9
After		142.9
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		9.539
Before		8.461
After		9.996
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		27.53
Before		27.56
After		27.63
	−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		10.98
Before		10.73
After		11.29
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 13−Feb−2022 23:25 Before: 13−Feb−2022 23:31 After: 13−Feb−2022 23:36

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		40.51
Before		40.45
After		40.84
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		16.47
Before		16.18
After		15.76
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1129
Before		1129
After		1129
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		145.0
Before		144.7
After		147.0
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		9.043
Before		10.12
After		9.460
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		28.33
Before		28.25
After		28.19
	−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		11.22
Before		11.24
After		11.38
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 13−Feb−2022 23:25 Before: 13−Feb−2022 23:31 After: 13−Feb−2022 23:36

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9687
Before		0.9517
After		0.9802
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 13−Feb−2022 23:25

Before: 13−Feb−2022 23:31

After: 13−Feb−2022 23:36

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 1 Calibration

Phase	Na 511 Peak Set Point	Value
Master		41.00
	38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)	

Phase	Th Peak Loc	Value
Master		210.2
	201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)	

Phase	Th Peak Res %	Value
Master		7.307
	5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	

Phase	Background Count Rate CPS	Value
Master		22.81
	10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)	

Phase	Gain Ratio	Value
Master		1.009
	0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)	

Master: 13−Feb−2022 23:19

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

Phase	Na 511 Peak Set Point	Value
Master		42.00
	38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)	

Phase	Th Peak Loc	Value
Master		211.1
	201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)	

Phase	Th Peak Res %	Value
Master		7.436
	5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	

Phase	Background Count Rate CPS	Value
Master		22.96
	10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)	

Phase	Gain Ratio	Value
Master		0.9914
	0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)	

Master: 13−Feb−2022 23:19

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector	EDTG − A/B	77693
Enhanced DTS Cartridge	EDTC − B	8529

Auxiliary Equipment:

EDTC Housing	EDTH − B	8528

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z−Axis Acceleration M/S2	Value
Before		9.828
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 6−Mar−2022 7:43

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value
Before		8.029
After		7.842
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)	

Phase	Gamma Ray (Jig − Bkg) GAPI	Value
Before		163.4
After		165.6
	148.6 (Minimum) 163.4 (Nominal) 178.3 (Maximum)	

Phase	Gamma Ray (Calibrated) GAPI	Value
Before		164.0
After		166.2
	149.0 (Minimum) 164.0 (Nominal) 179.0 (Maximum)	

Before: 13−Feb−2022 22:35 After: 13−Feb−2022 22:44

Well:	**Expedition 392, Site U1580A**
Field:	**Agulhas Plateau Cretaceous Climate**
Rig:	**JOIDES Resolution**
Ocean:	**Southern**

	Formation Micro Scanner (FMS) Dipole Shear Sonic (DSI) Natural Gamma /(HNGS)