Schlumberger

Company: Lamont Doherty

Well: Expedition 323 Site U1344A
Field: Bering Sea
Rig: JOIDES Resolution Country: USA

Dipole Shear Sonic
Natural Gamma Spectroscopy

Rig: JOIDES Resolution
Field: Bering Sea
Location: Latitude: N 59* 03.00'
Well: Expedition 323 Site U1344A
Company: Lamont Doherty

LOCATION

Latitude: N 59* 03.00'
Longitude: W 179* 12.20'

Elev.: K.B. 11.00 m
G.L. -3183.40 m
D.F. 11.00 m

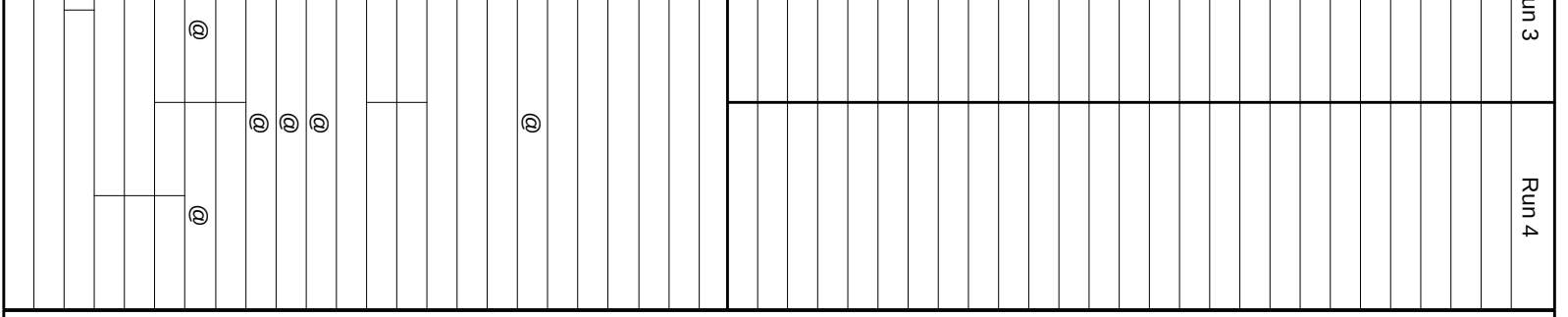
Permanent Datum: Mean Sea Level
Log Measured From: Drill Floor
Drilling Measured From: Drill Floor

Elev.: 0.00 m
11.00 m above Perm. Datum

Ocean: Pacific	Max. Well Deviation 0 deg	Longitude N 59* 03.00'	Latitude W 1795* 12.20'

	Run 1	Run 2	Run 3
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			

	Run 1	Run 2	Run 3
Logging Date	18-Aug-2009		
Run Number	2		
Depth Driller	3929.9 m		
Schlumberger Depth	3928.2 m		
Bottom Log Interval	3897.7 m		
Top Log Interval	3278.7 m		
Casing Driller Size @ Depth	4.500 in @ 3280 m	@	
Casing Schlumberger	3278 m		
Bit Size	11.438 in		
Type Fluid In Hole	Seawater Gel		
MUD Density / Viscosity	1.258 g/cm3 /	/	/
MUD Fluid Loss / PH	/	/	/
MUD Source Of Sample	N/A		
RM @ Measured Temperature	@	@	
RMF @ Measured Temperature	@	@	
RMC @ Measured Temperature	@	@	
Source RMF / RMC	N/A / N/A	/	/
RM @ MRT / RMF @ MRT	@ 15 / @ 15	@ / @	
Maximum Recorded Temperatures	15 degC		
Circulation Stopped / Time	20-Jul-2009 / 11:00		
Logger On Bottom / Time	19-Aug-2009 / 6:30		
Unit Number / Location	625003 / Houston		
Recorded By	C. Furman		
Witnessed By	T. Liu, G. Guerin		



DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1

OS1: FMS
OS2: DIT
OS3: HNGS
OS4: APS/HLDS

REMARKS: RUN NUMBER 1

Logs run in first hole ("A" hole) of drilling site U1344 to aid in correlation of
core data collected in surface labs.
Average heave during the run was only 0.2m; Active Heave Compensator not used.
TD was found to be 3928.2mBRF with the pipe (bit) at 3278mBRF. Sea Bed at 3183mBRF.
Hole Size input taken from FMS Caliper 1.
Tools run slick in order to fit through drill pipe, as is standard practice on this project.
FMS Caliper closed at approximately 3320m to facility entry into drill pipe.
FMS EMEX power deactivated at approximately 3323.5m.
Tools run with "Go-Devil" LFV Actuator attached to the bottom of the string for safe passage through the LFV.
Maximum depth reached was 3913m due to borehole obstruction encountered there.
Data affected by hole conditions in some areas.

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 17C0-154
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

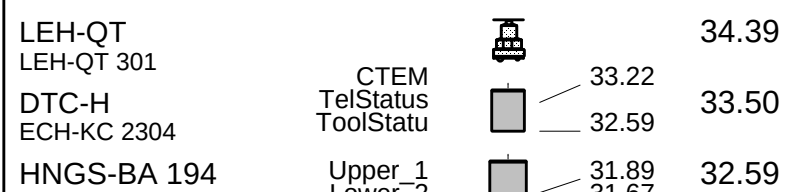
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

GSR-U 616008
WITM (DTS)-A

DOWNHOLE EQUIPMENT



HNGS-BA 194
HNSH-BA 205

Lower_2 — 31.67

HNGC-B 300
HNGH-A 115

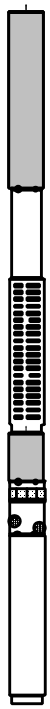
HNGC Stat — 29.55 — 30.09

AH-MCD_TOP
AH-MCD_TOP 1

29.02

DSST-B
SPAC-B 16
ECH-SD 16
SMDR-BD 8070
SSIJ-BA 8127
SMDX-AA 8147

26.73



PWF — 11.19

AH-MCD_LOWER
AH-MCD_LOWER 2

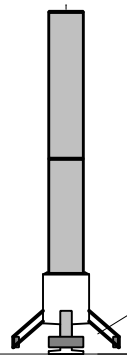
11.19

DTA-A
ECH-KE 8451

8.90

MEST-B
MEAH-B 769
MEAC-A 875
MEPH-A 702
GPIC-A 719
MEPC-AB 806
MEDS-B 702

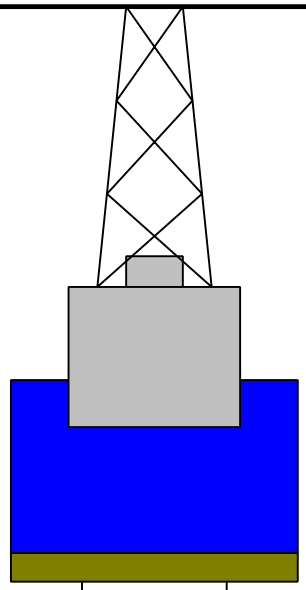
7.68



MEDR MEAC
MEPC MEDS-B — 0.46
HV DF
Tension GPIT — 0.00
TOOL ZERO

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			11.0				
Derrick Floor Elevation			11.0				
Mean Sea Level			0.0				
					0.0	5.750	3.800
					3183.4	11.438	Sea Bed
					3280.0	5.750	3.800 Bit Depth
					3929.9	11.438	Total Depth - Driller

Schlumberger

Pass #2
TD to Sea Bed

MAXIS Field Log

Company: Lamont Doherty | Well: Expedition 323 Site U1343E

Input DLIS Files

DEFAULT	FMS_DSI_NGS_111LUP	FN:24	PRODUCER	19-Aug-2009 06:28	3911.3 M	3262.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_126PUP	FN:41	PRODUCER	19-Aug-2009 20:14	3915.9 M	3266.2 M

OP System Version: 17C0-154

MEST-B	SRPC-3762-Q1_2009_OP17	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

PIP SUMMARY

Time Mark Every 60 S

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

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

Tension (TENS)
10000 (LBF) 0

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

Delta-T Comp - P & S (DT4P)
440 (US/F) 40

Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40

Bit Size (BS)
0 (IN) 20

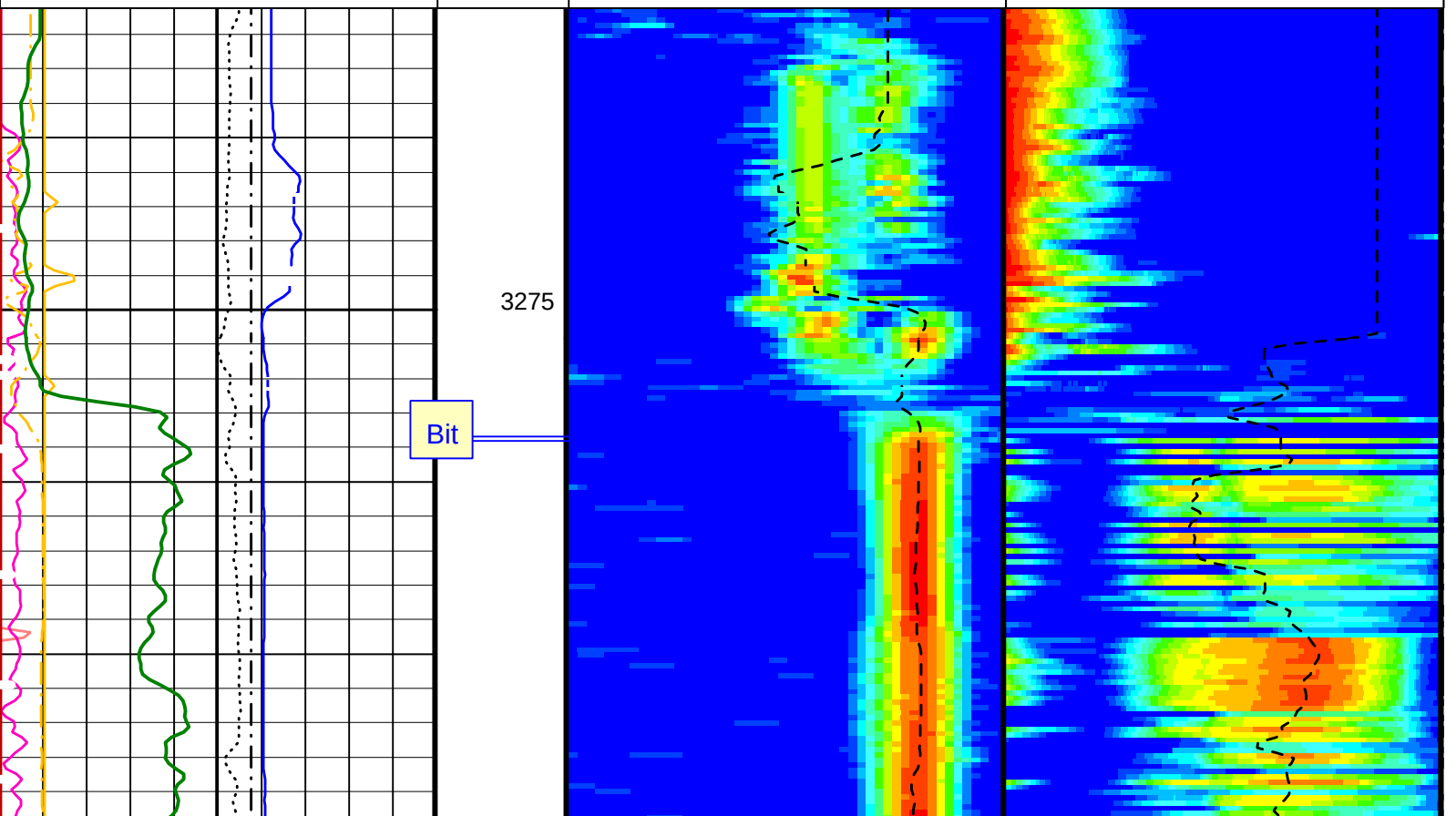
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
120 (US/F) 220

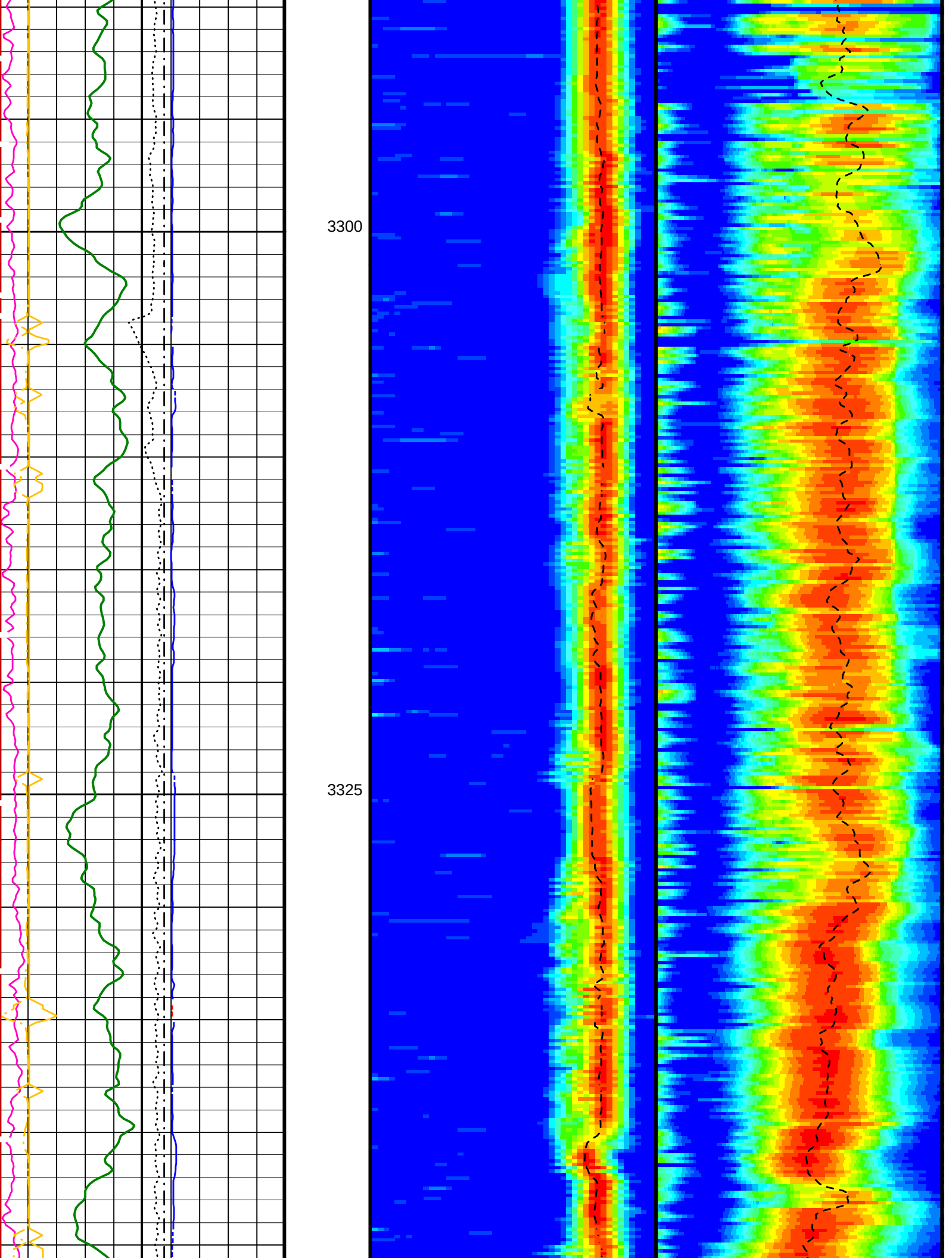
Delta-T Shear / RA - P & S (DTRS)
120 (US/F) 220

Delta-T Comp / RA - P & S (DTRP)
120 (US/F) 220

Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
300 (US/F) 1600

Delta-T Shear / RA - Lower Dipole (DT1R)
300 (US/F) 1600

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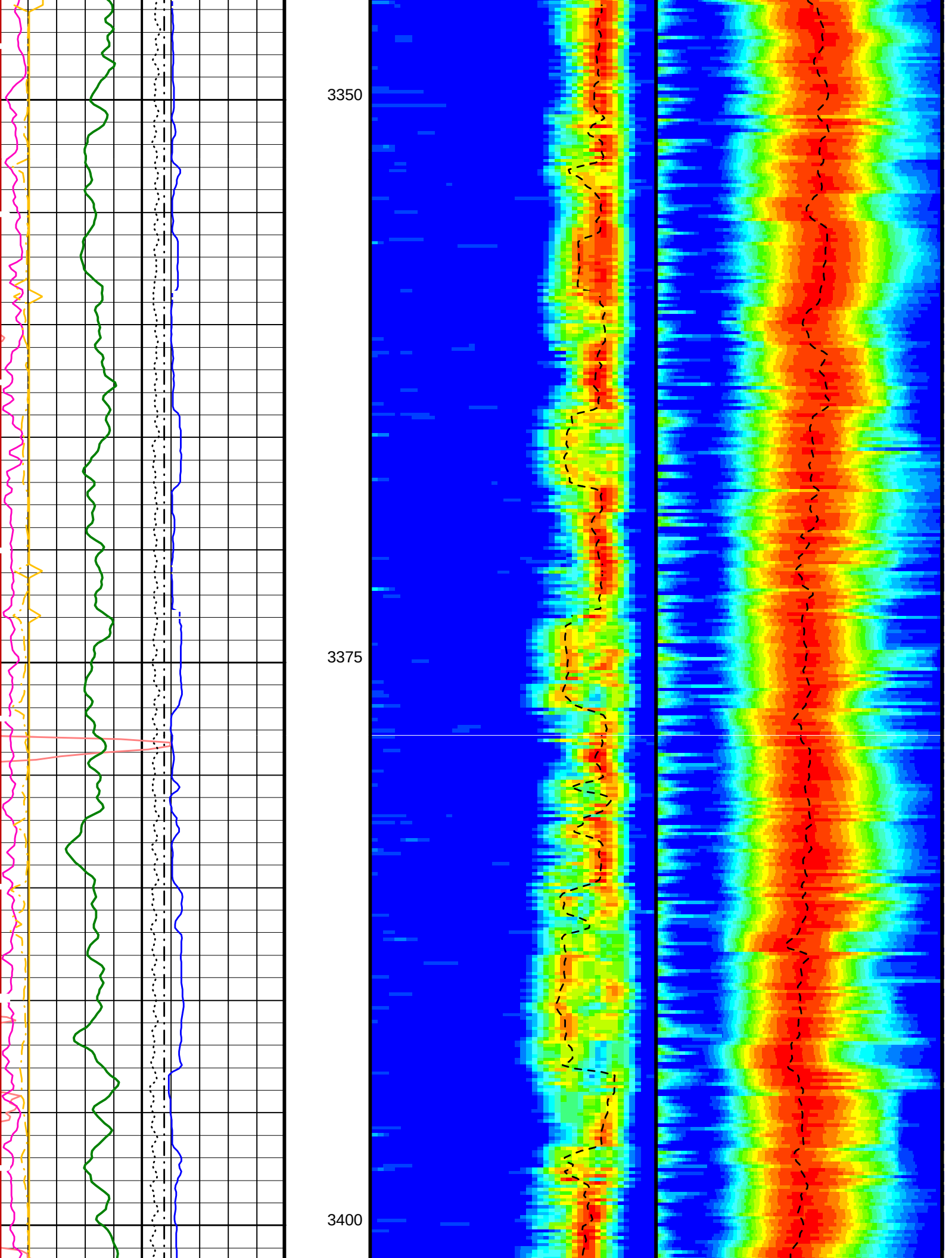
3325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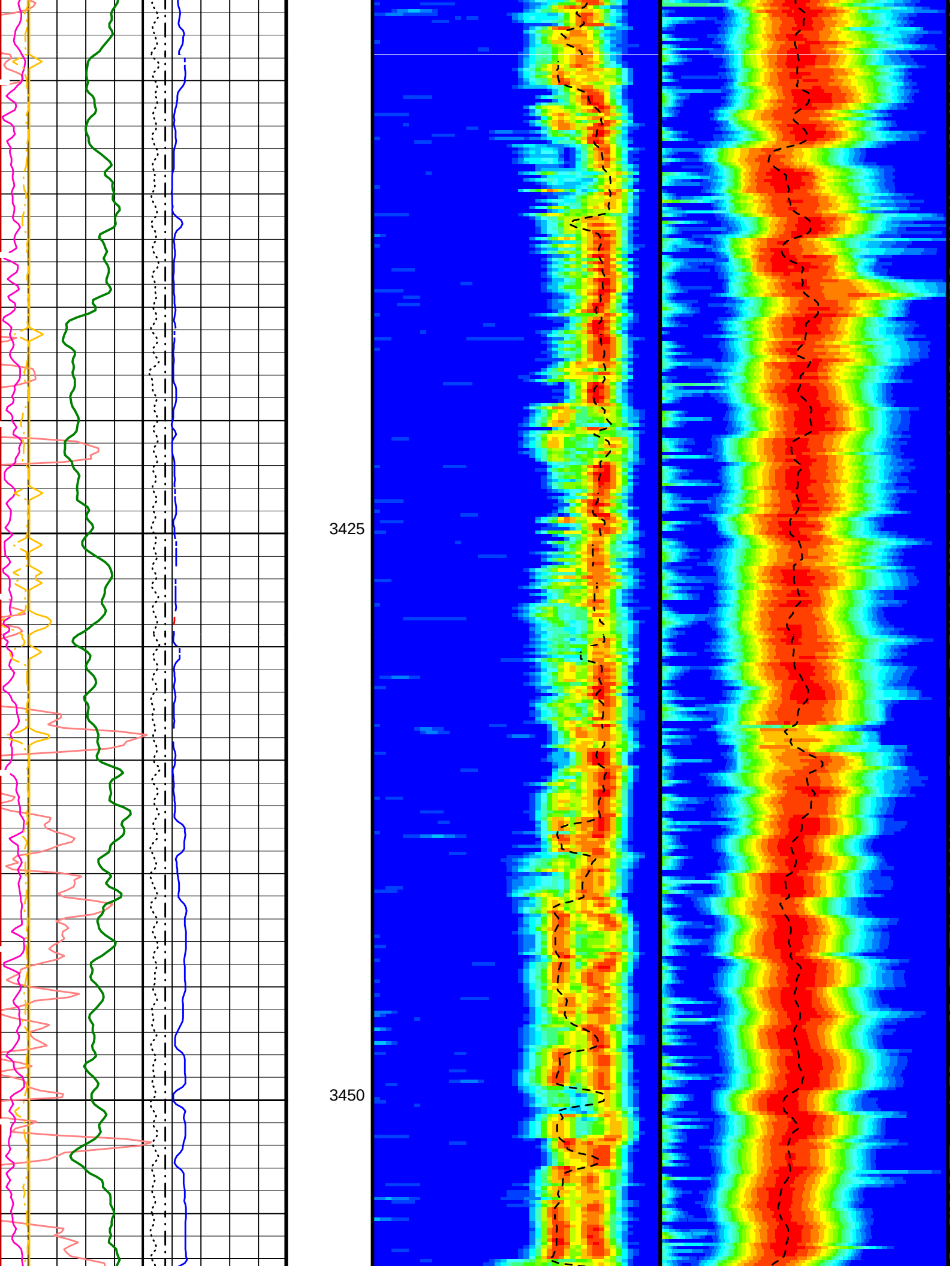
3375
3400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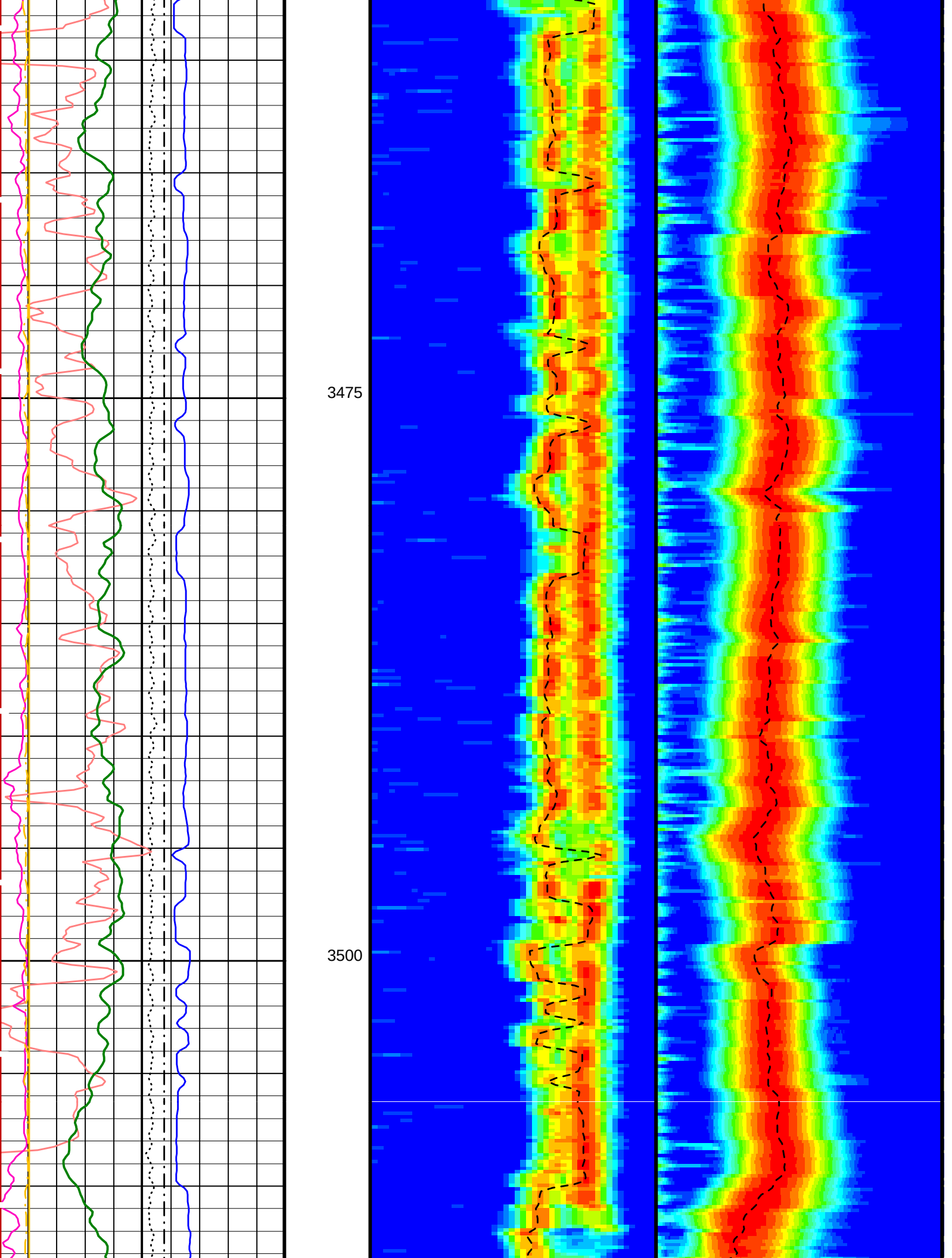
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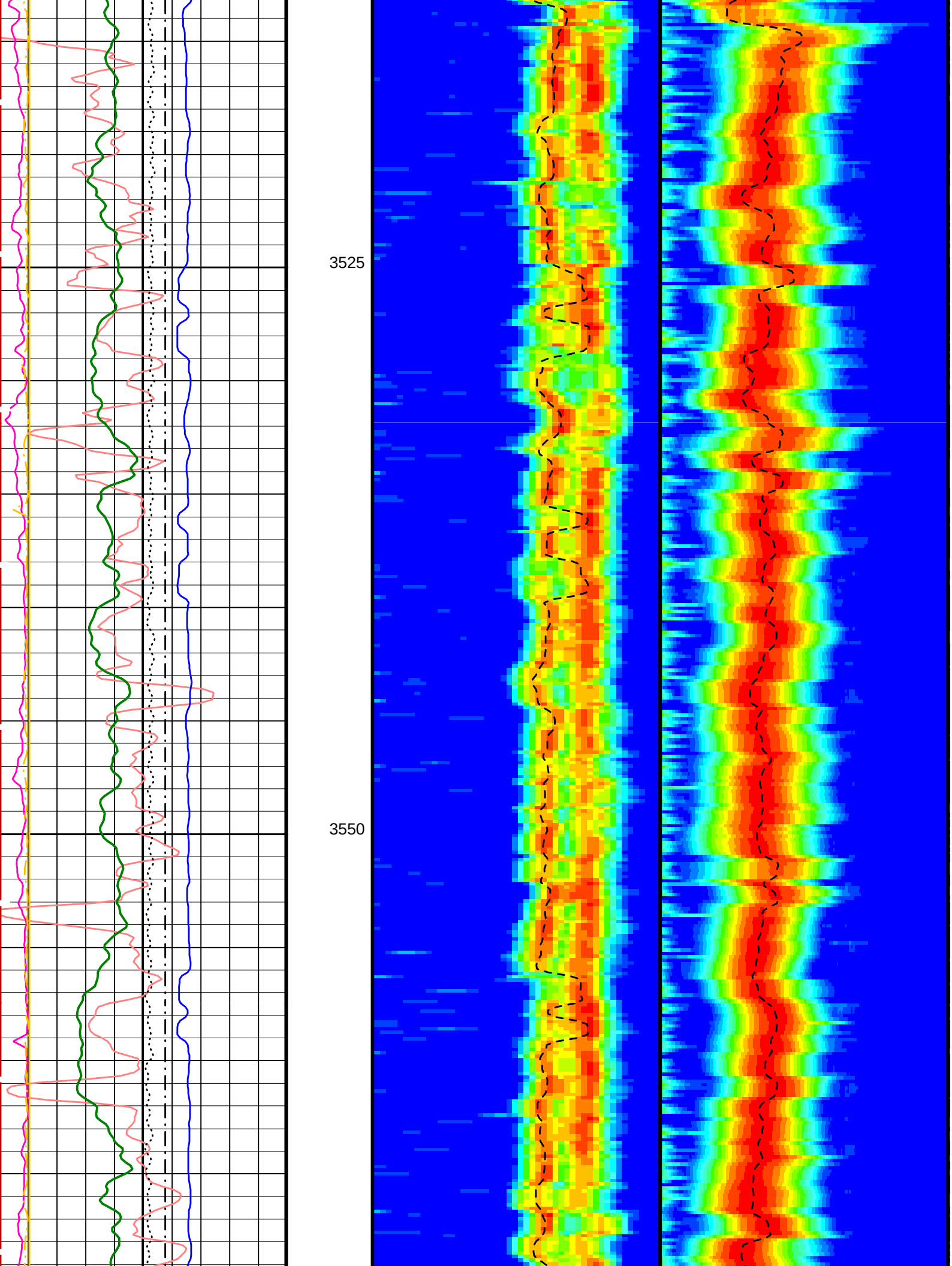
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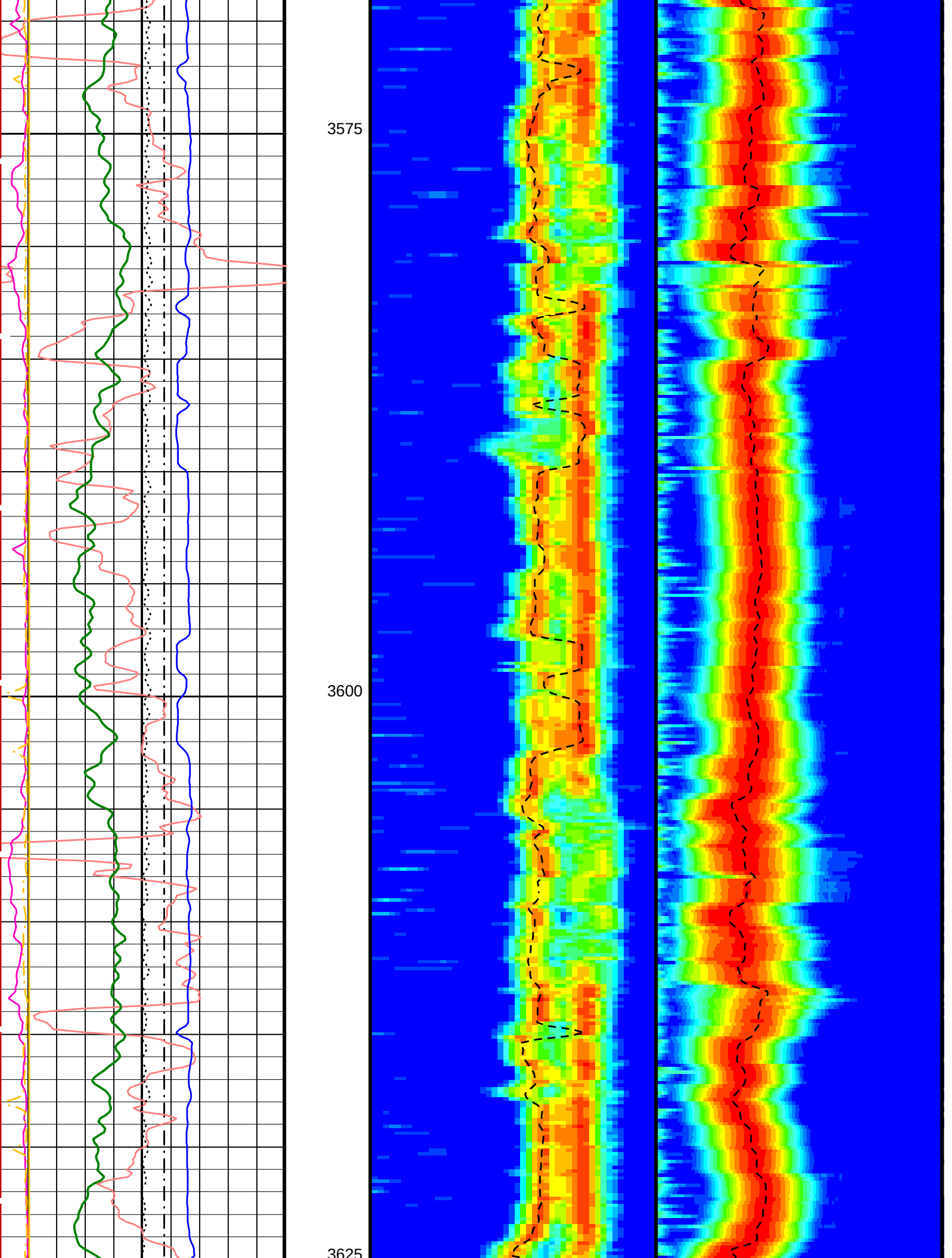
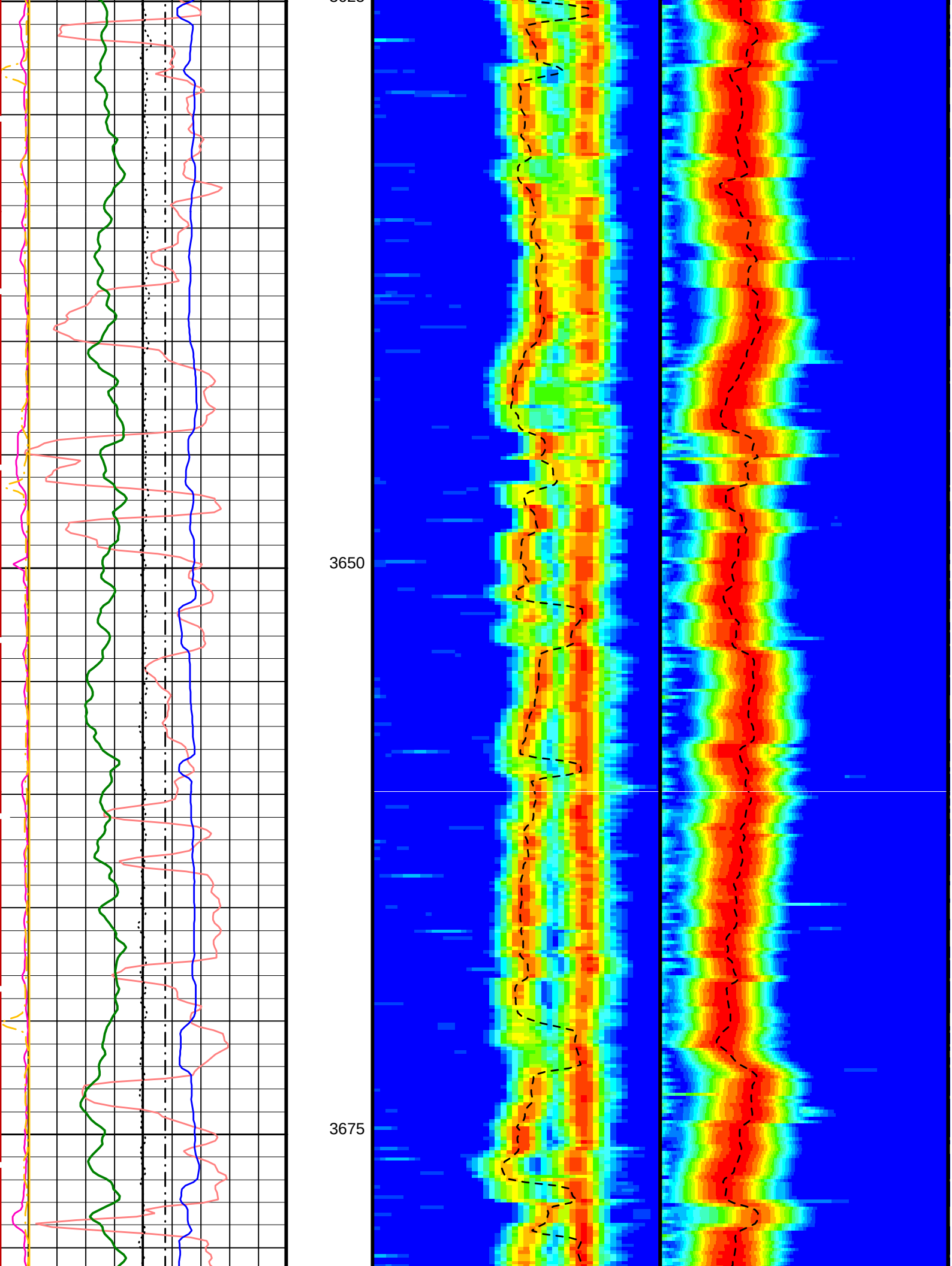

3575
3600
3625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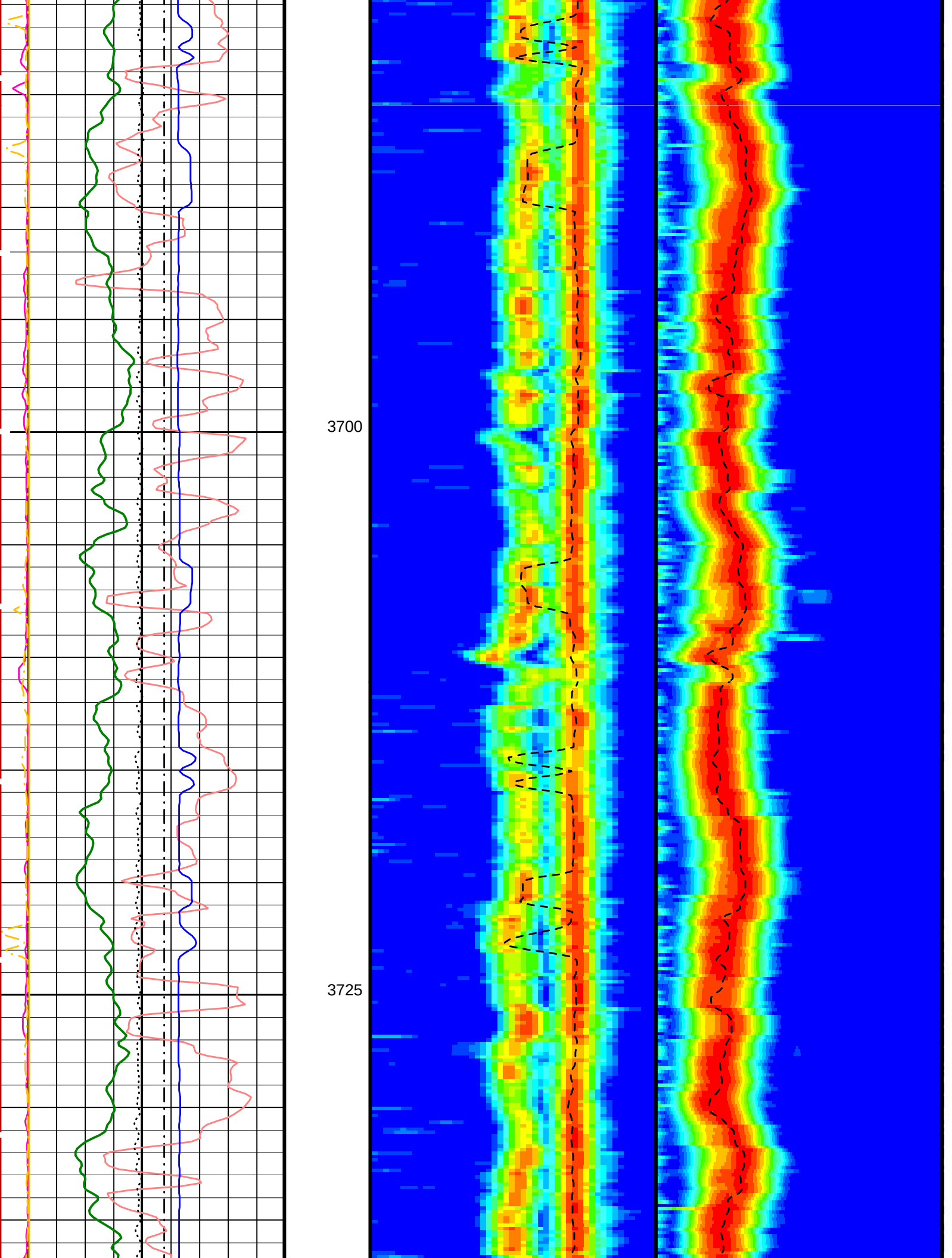
3675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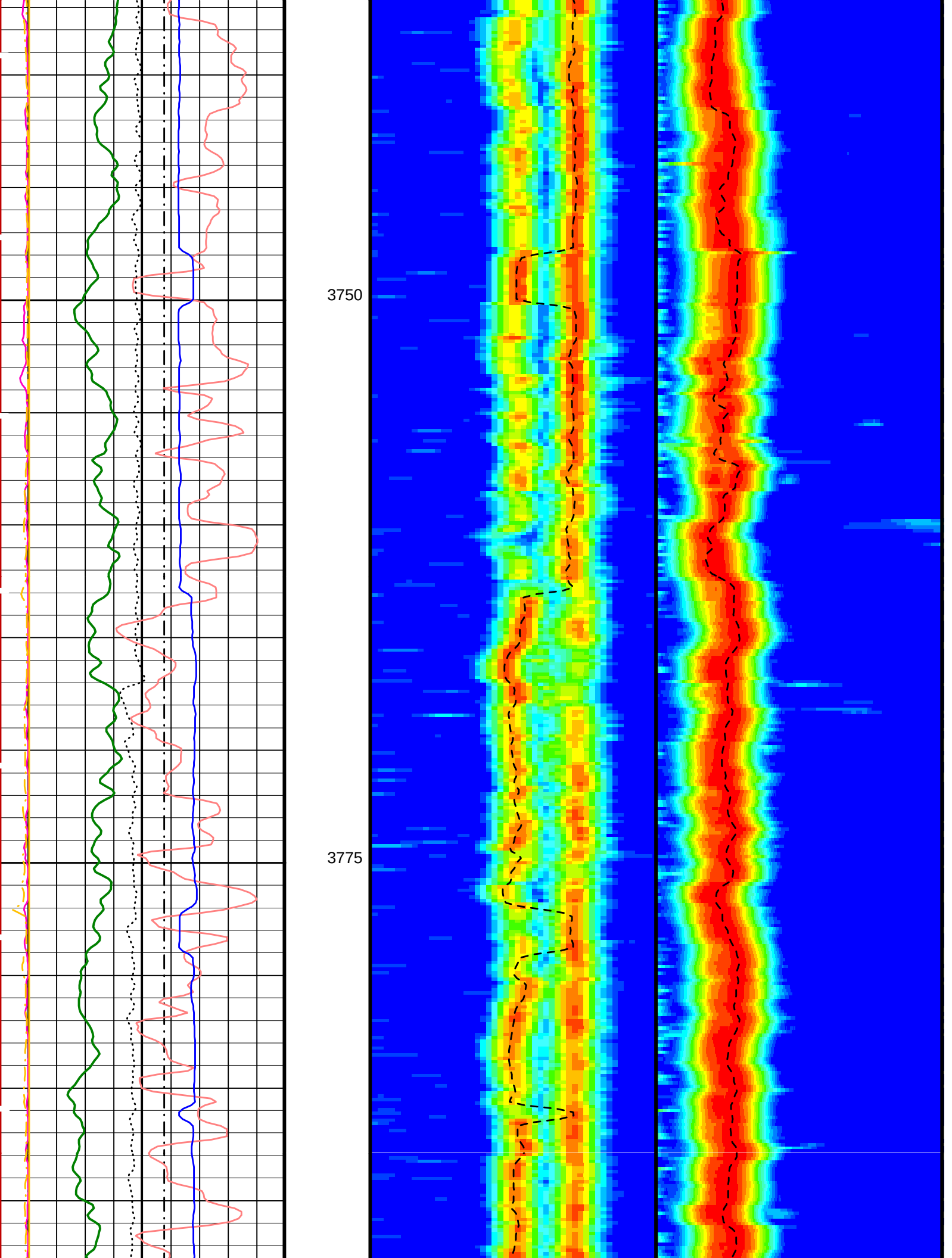
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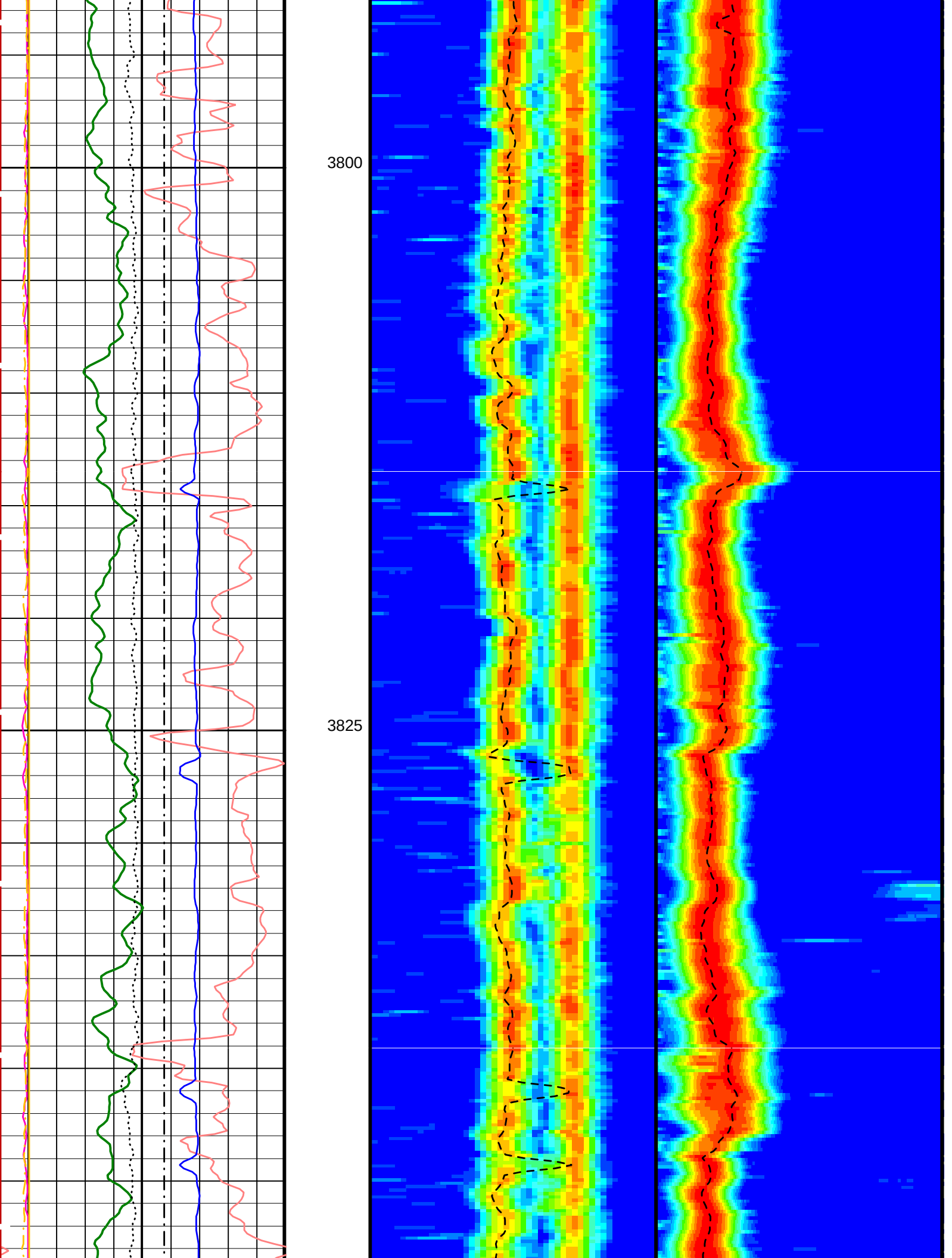
3775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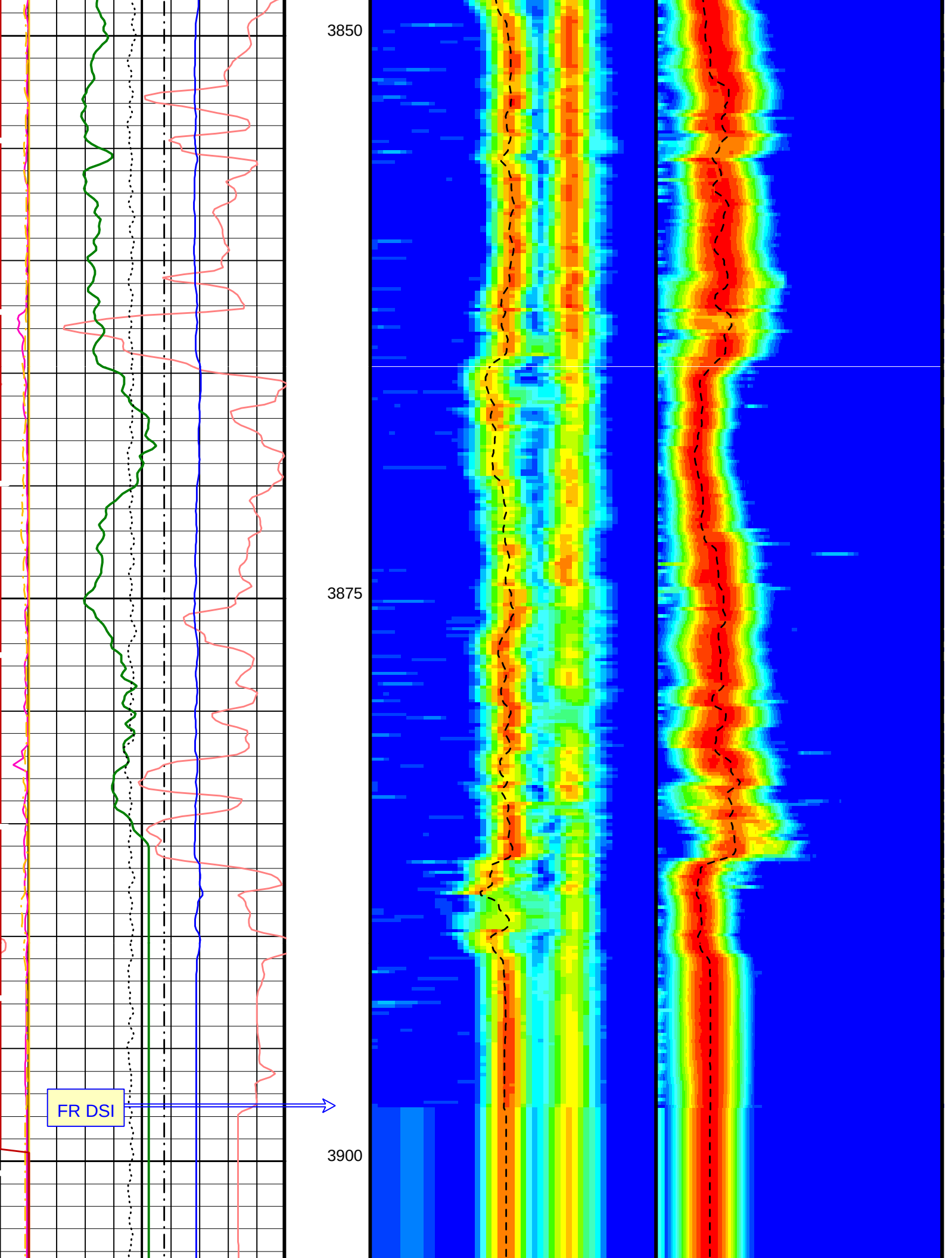
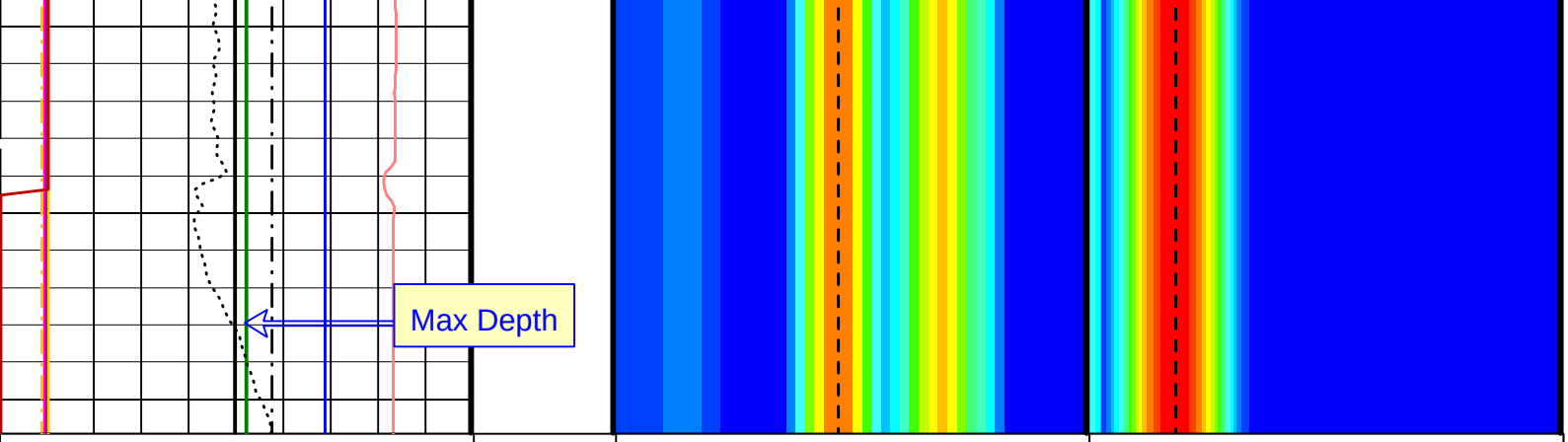

3850
3875
3900
FR DSI



Bit Size (BS)
0 (IN) 20

Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40

Delta-T Comp - P & S (DT4P)
440 (US/F) 40

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

Tension (TENS)
10000 (LBF) 0

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

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

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

Delta-T Comp / RA - P & S (DTRP)
120 (US/F) 220

Delta-T Shear / RA - P & S (DTRS)
120 (US/F) 220

Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
120 (US/F) 220

Delta-T Shear / RA - Lower Dipole (DT1R)
300 (US/F) 1600

Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
300 (US/F) 1600

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function - Monopole P&S	50	
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	120	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	220	US/F
DDE1	Digitizing Delay 1	0	US
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	300	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1500	US/F
DSI1	Digitizer Sample Interval 1	40	US

DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	204.5	US/F
DWC1	Digitizer Word Count 1	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI1	Number Waveform Items 1	8	
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio - Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio - Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	LFD_EVEN	
SAM4	DSST Sonic Acquisition Mode 4 - High Frequency Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status - Lower Dipole	255	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO1	STC Search Band Offset - Lower Dipole	3000	US
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW1	STC Search Bandwidth - Lower Dipole	8000	US
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE	
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM1	STC Filter - Lower Dipole	B.3-1.5K	
SFM2	STC Filter - Upper Dipole	B1-2K	
SFM4	STC Filter - Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	120	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	220	US/F
SLL1	STC Slowness Lower Limit - Lower Dipole	300	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	120	US/F
SST1	STC Slowness Step - Lower Dipole	4	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1	
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
SUL1	STC Slowness Upper Limit - Lower Dipole	1600	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	220	US/F
SWD1	STC Slowness Width - Lower Dipole	40	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0	US
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL1	STC Time Lower Limit - Lower Dipole	2450	US
TLL4	STC Time Lower Limit - Monopole P&S	580	US
TST1	STC Time Step - Lower Dipole	200	US
TST4	STC Time Step - Monopole P&S	50	US
TUL1	STC Time Upper Limit - Lower Dipole	20440	US
TUL4	STC Time Upper Limit - Monopole P&S	3480	US
TWD1	STC Time Width - Lower Dipole	2000	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	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	
HABK	HNGS Borehole Potassium Running Average	-0.00308342	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01085	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01236	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	4.3	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 19-Aug-2009 20:14

OP System Version: 17C0-154

MEST-B	SRPC-3762-Q1_2009_OP17	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

Input DLIS Files

DEFAULT	FMS_DSI_NGS_111LUP	FN:24	PRODUCER	19-Aug-2009 06:28	3911.3 M	3262.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_126PUP	FN:41	PRODUCER	19-Aug-2009 20:14		

Schlumberger

Pass #1
OH Only

MAXIS Field Log

Company: Lamont Doherty Well: Expedition 323 Site U1343E

Input DLIS Files

DEFAULT	FMS_DSI_NGS_110LUP	FN:22	PRODUCER	19-Aug-2009 04:40	3913.6 M	3320.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_125PUP	FN:40	PRODUCER	19-Aug-2009 20:12	3918.2 M	3323.7 M

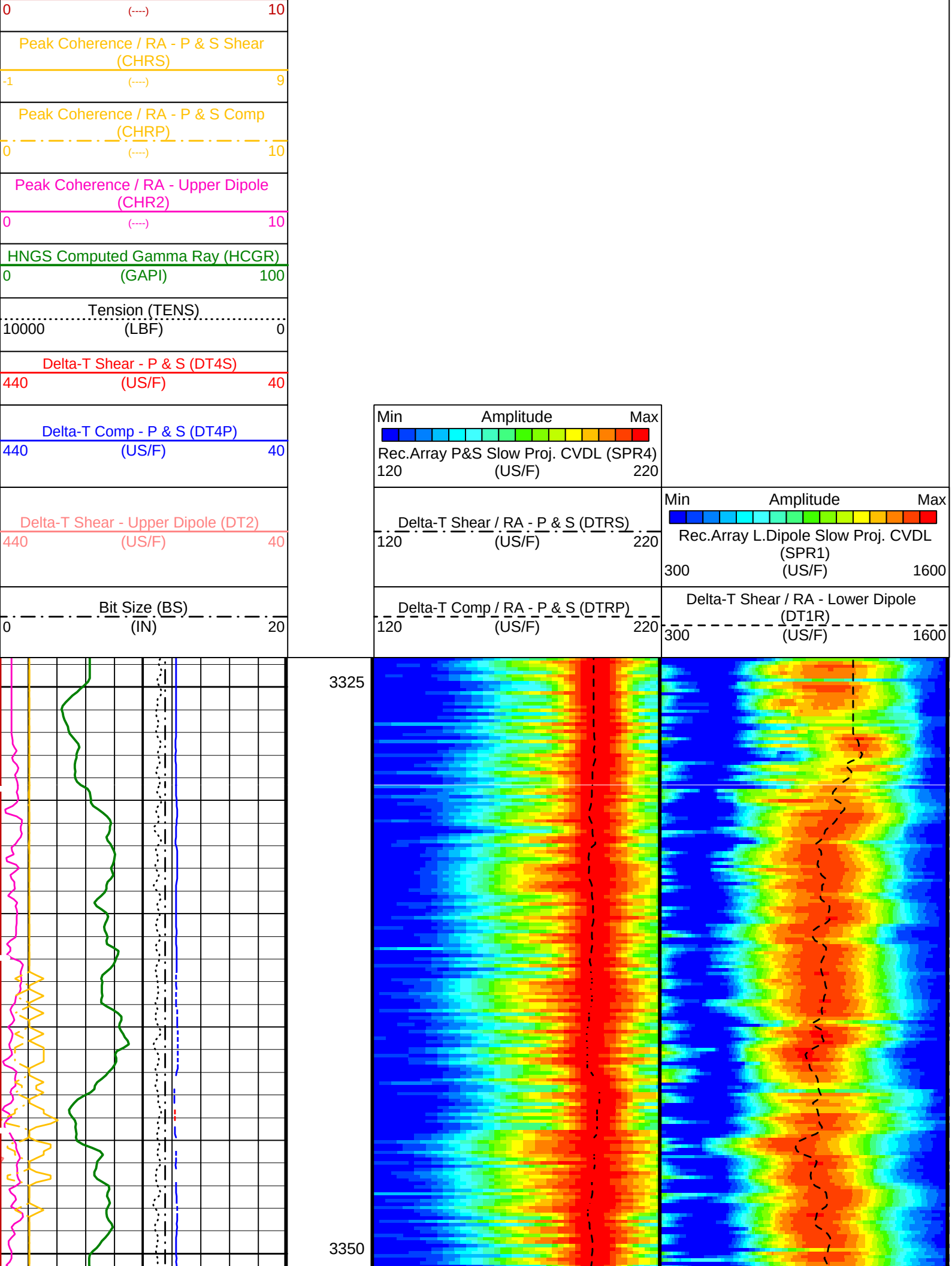
OP System Version: 17C0-154

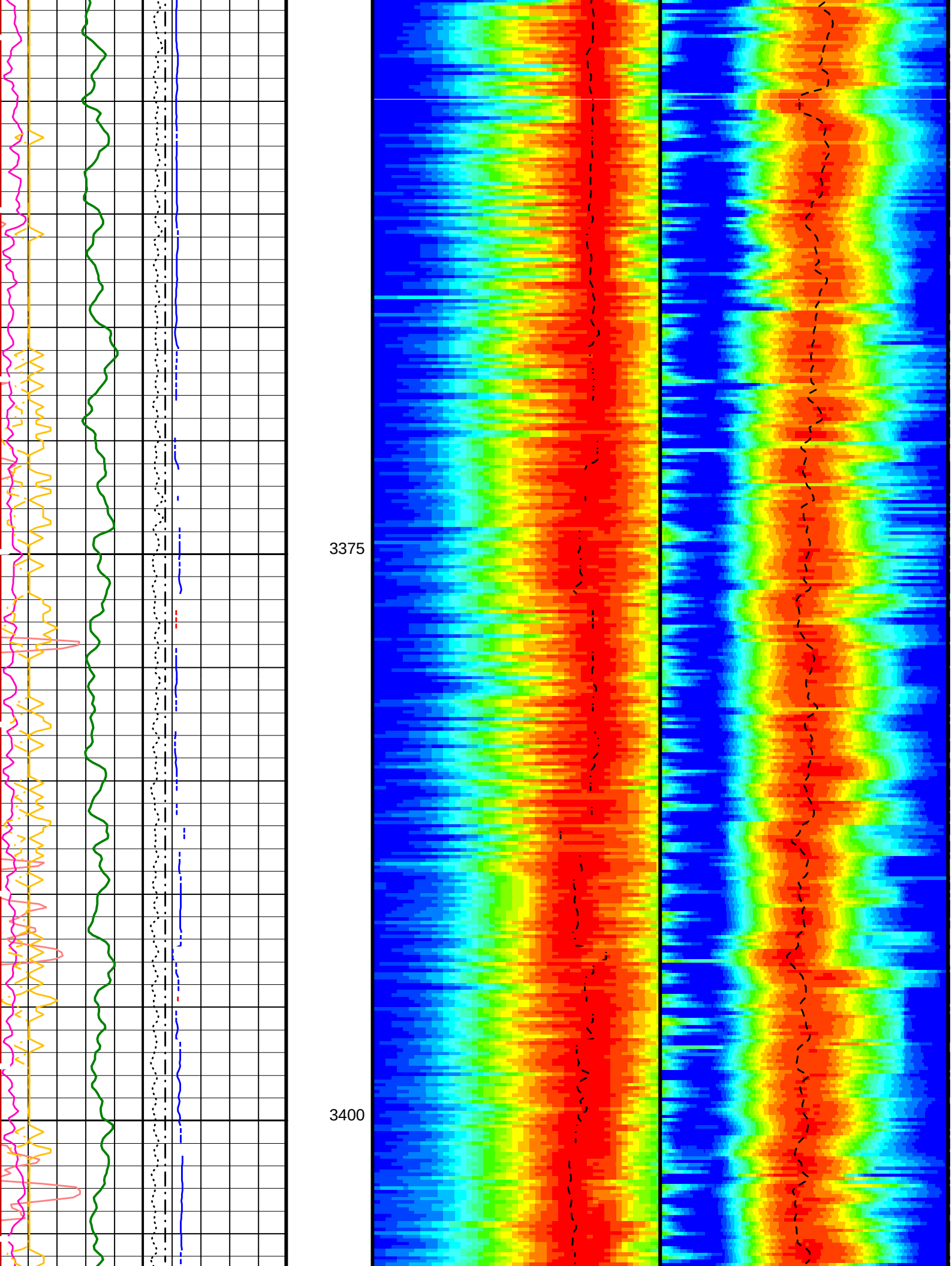
MEST-B	SRPC-3762-Q1_2009_OP17	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

PIP SUMMARY

Time Mark Every 60 S

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 / RA - Upper Dipole (CHR2)
0 (----) 10
HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100
Tension (TENS)
10000 (LBF) 0
Delta-T Shear - P & S (DT4S)
440 (US/F) 40
Delta-T Comp - P & S (DT4P)
440 (US/F) 40
Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40
Bit Size (BS)
0 (IN) 20
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
120 (US/F) 220
Delta-T Shear / RA - P & S (DTRS)
120 (US/F) 220
Delta-T Comp / RA - P & S (DTRP)
120 (US/F) 220
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
300 (US/F) 1600
Delta-T Shear / RA - Lower Dipole (DT1R)
300 (US/F) 1600
3325
3350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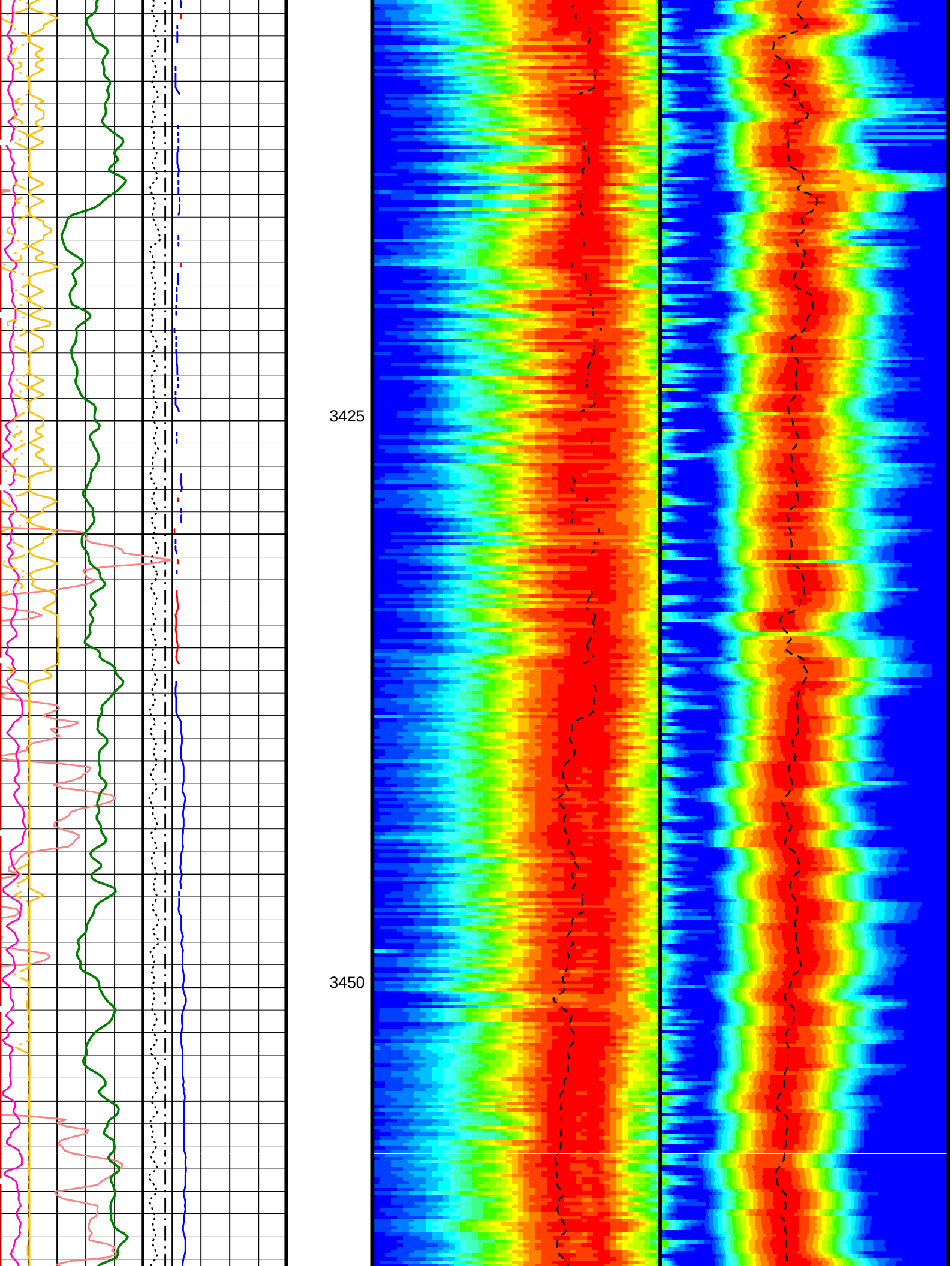
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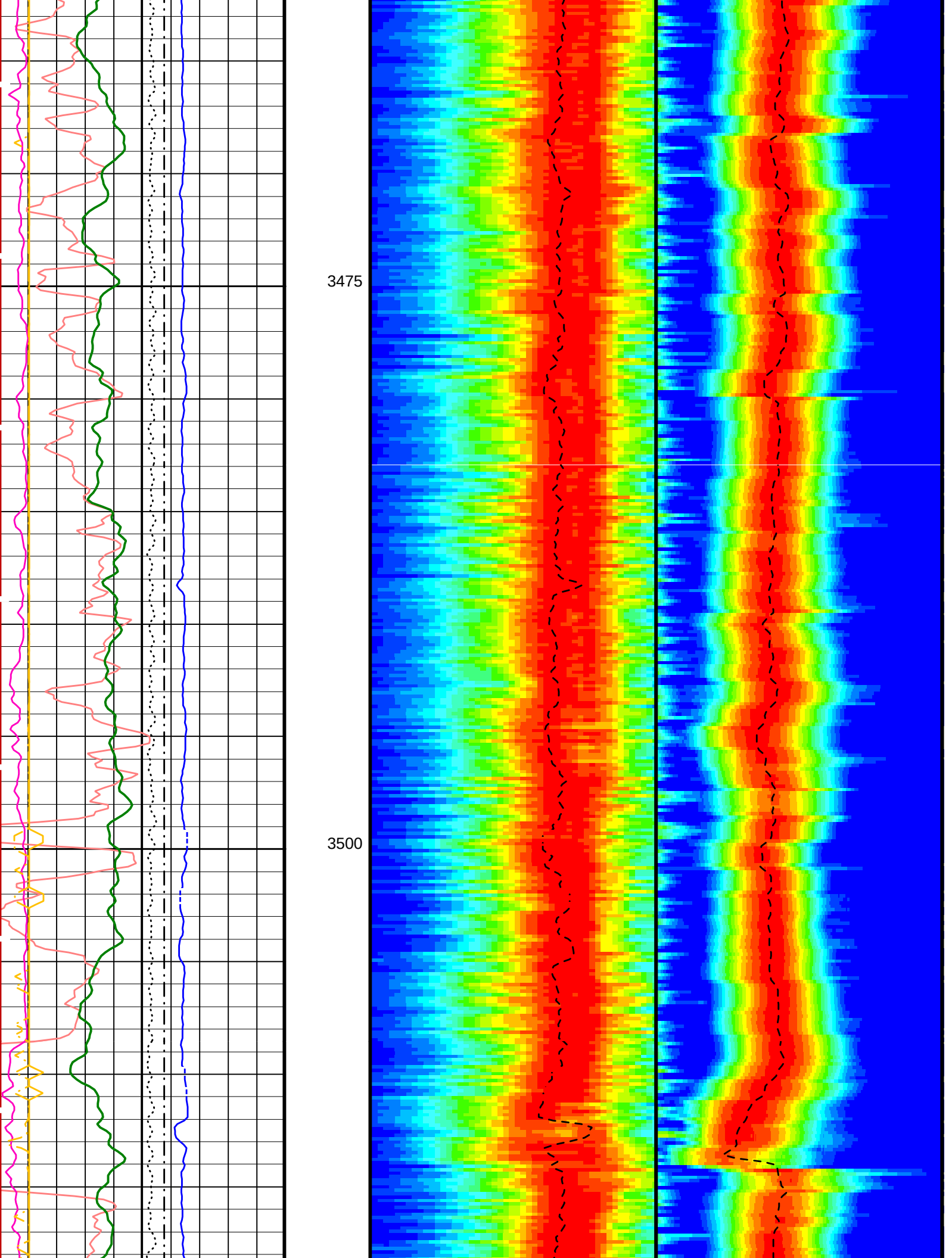
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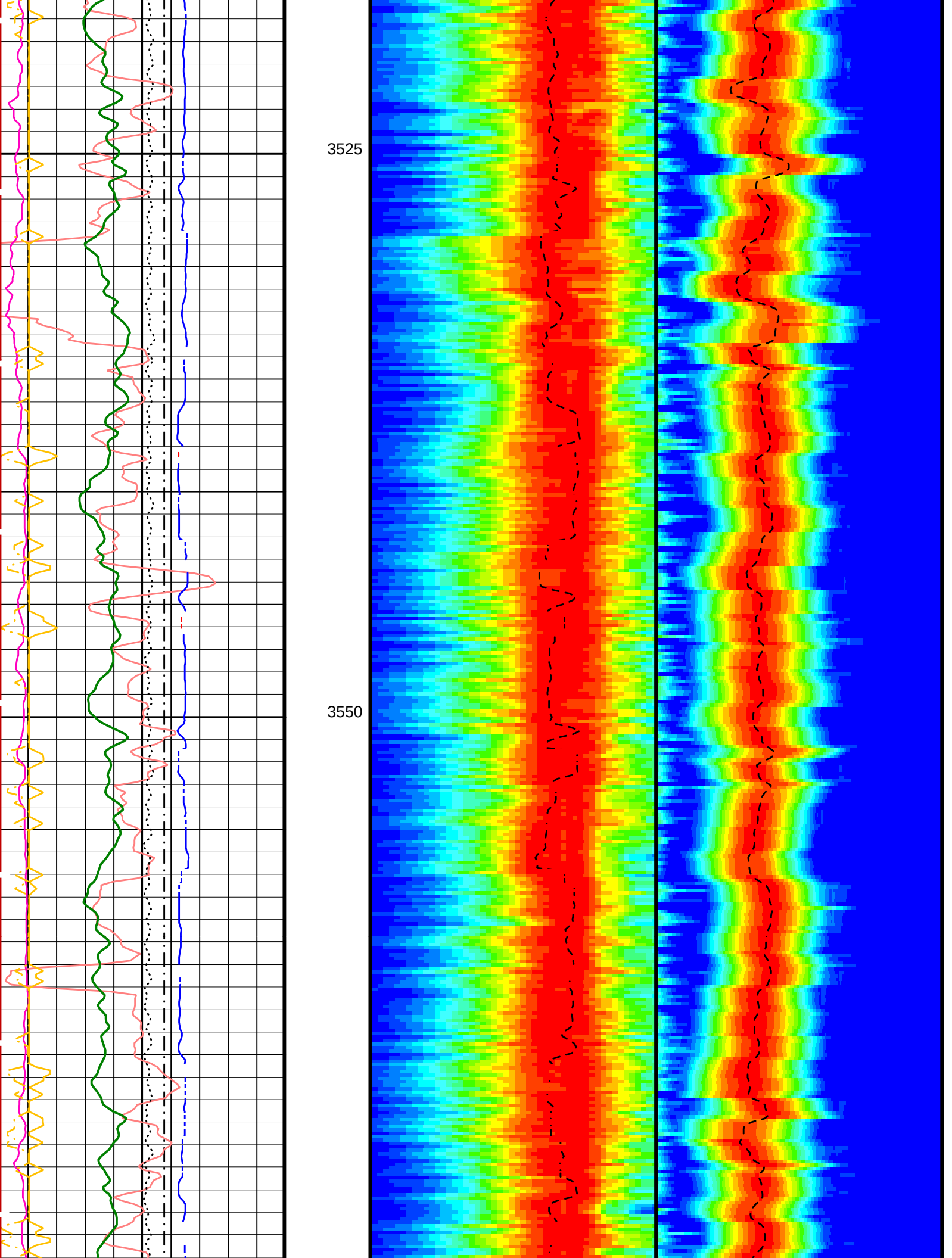
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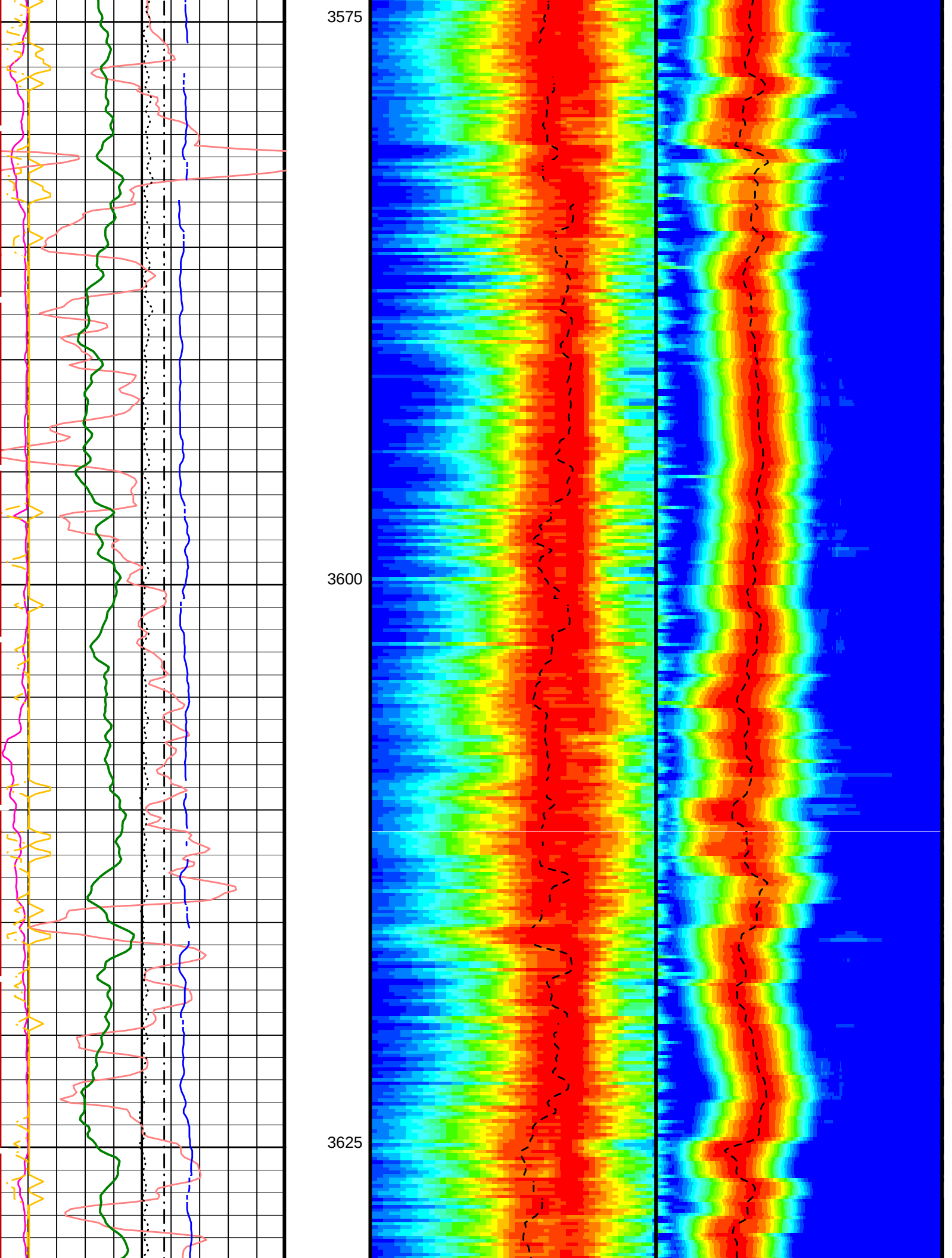
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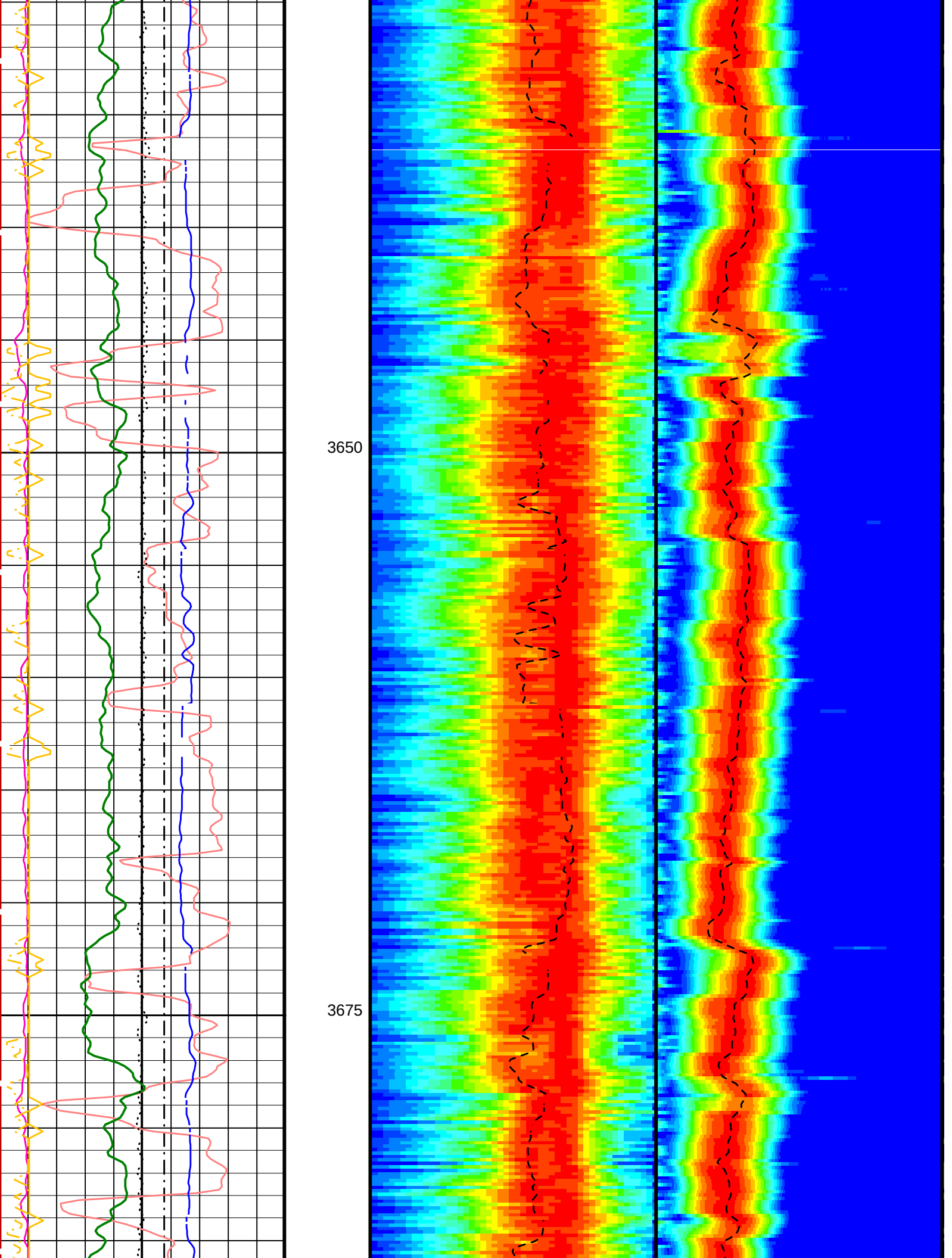
3625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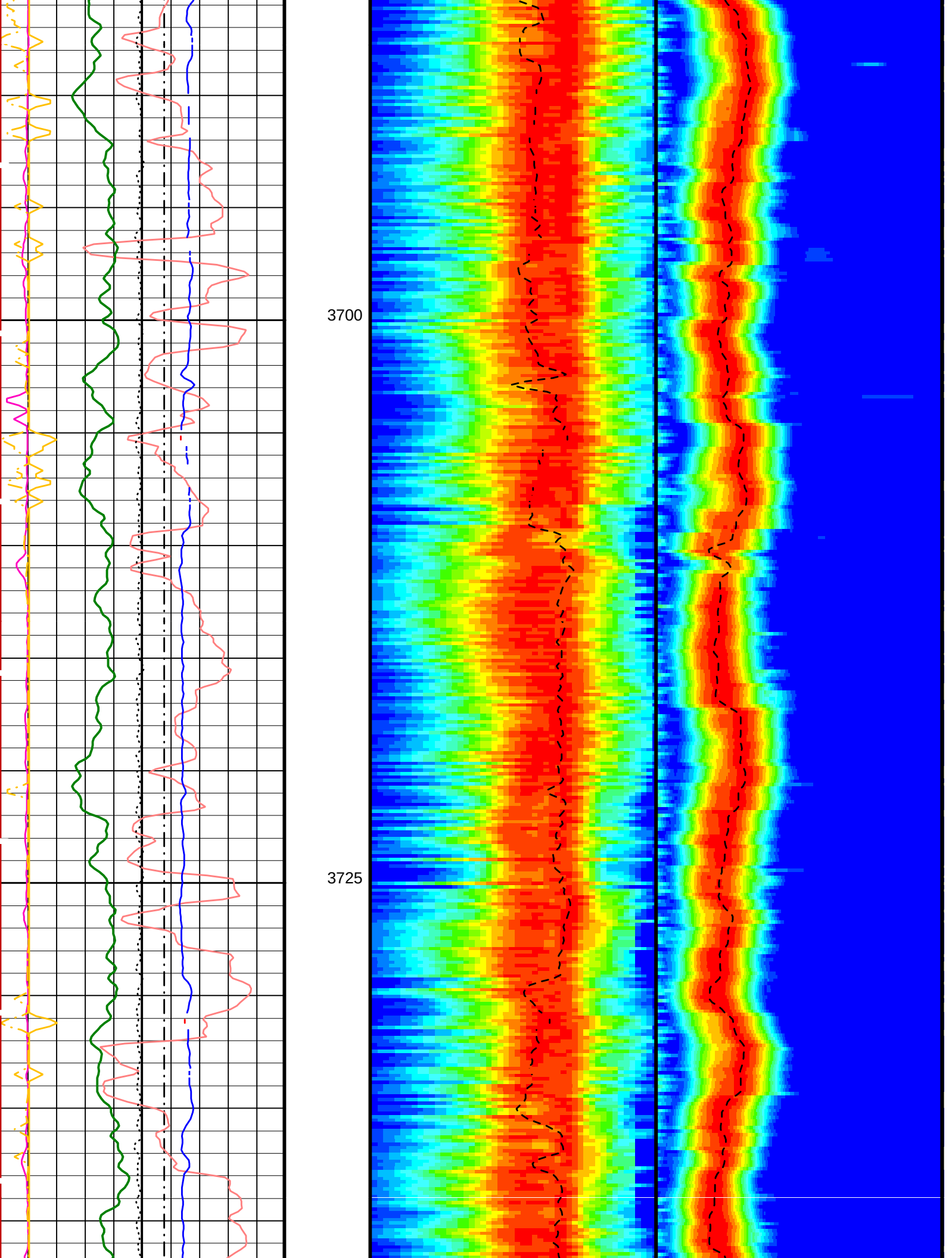
3675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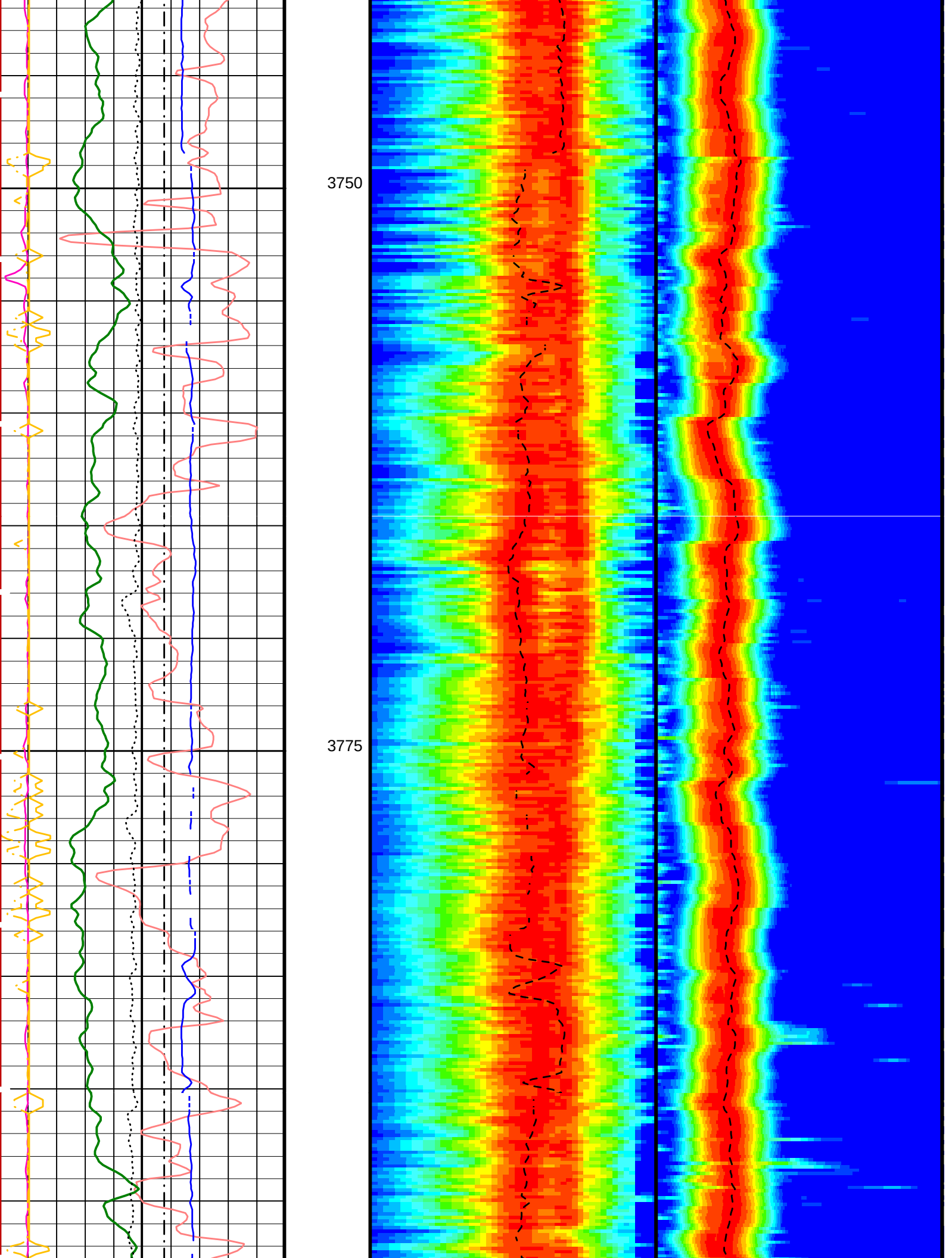
3725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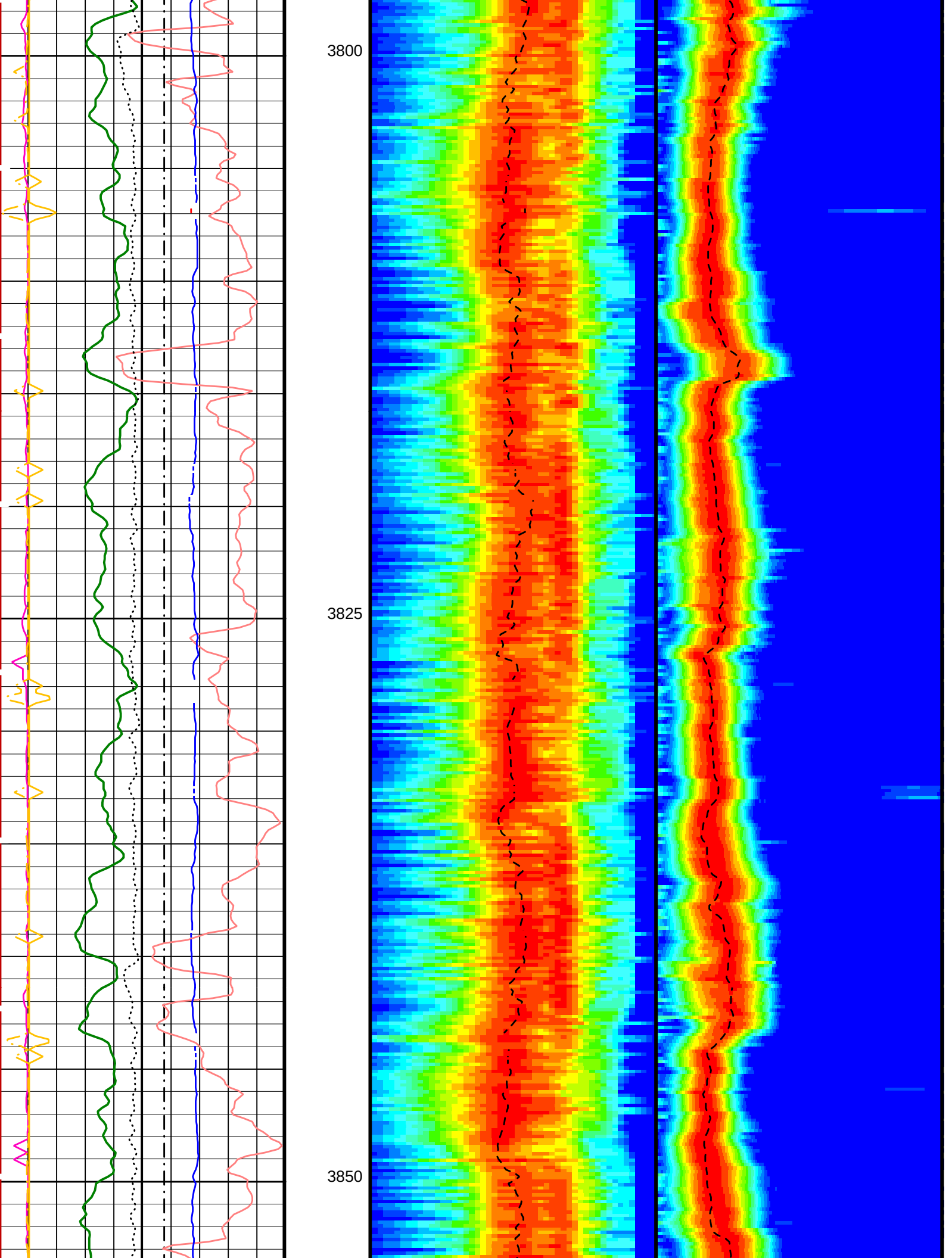
3775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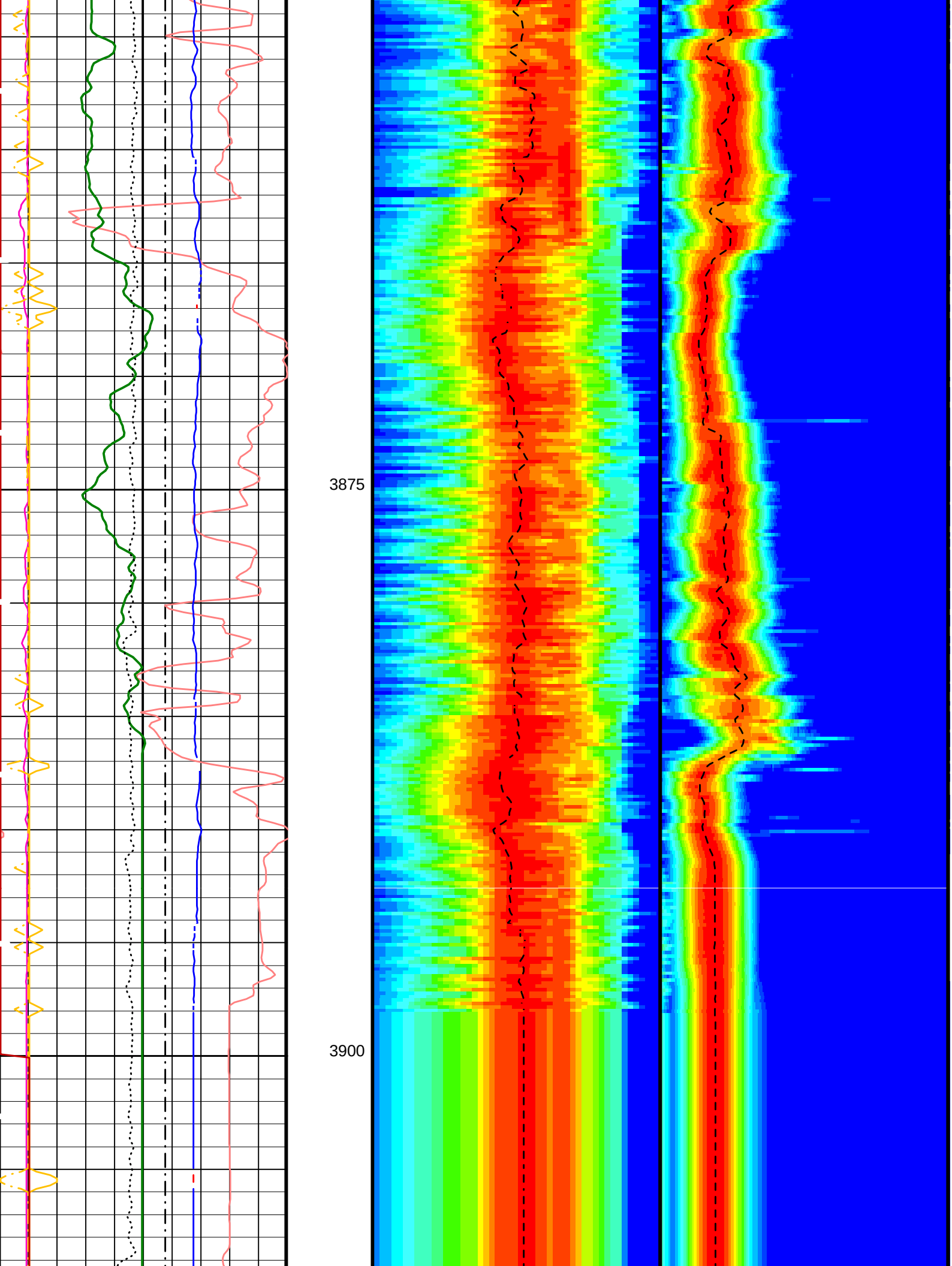
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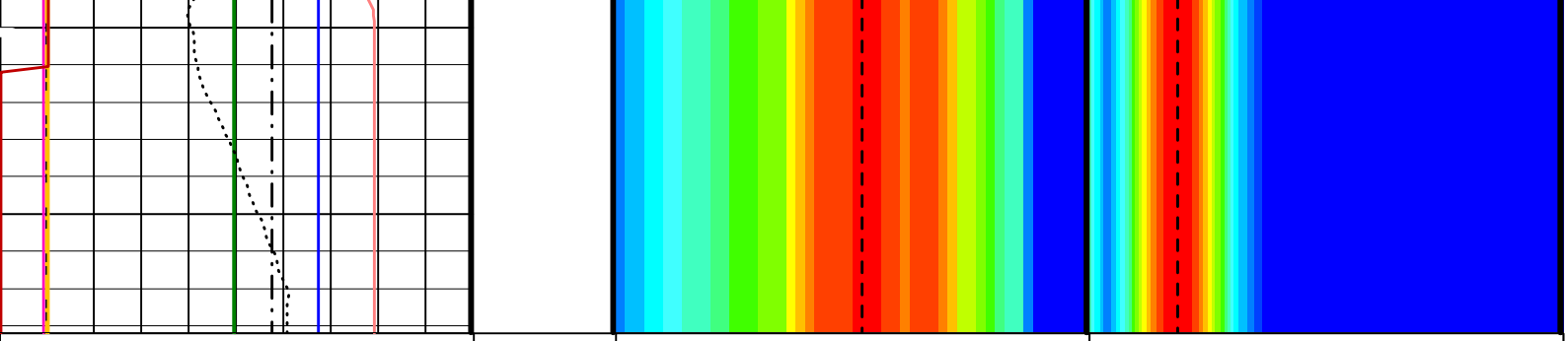

Bit Size (BS)
0 (IN) 20

Delta-T Shear - Upper Dipole (DT2)
440 (US/F) 40

Delta-T Comp - P & S (DT4P)
440 (US/F) 40

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

Tension (TENS)
10000 (LBF) 0

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

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

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

Delta-T Comp / RA - P & S (DTRP)
120 (US/F) 220

Delta-T Shear / RA - P & S (DTRS)
120 (US/F) 220

Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
120 (US/F) 220

Delta-T Shear / RA - Lower Dipole (DT1R)
300 (US/F) 1600

Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
300 (US/F) 1600

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function - Monopole P&S	50	
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	120	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	220	US/F
DDE1	Digitizing Delay 1	0	US
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	300	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1500	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	204.5	US/F

DWC1	Digitizer Word Count 1	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI1	Number Waveform Items 1	8	
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio - Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio - Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	LFD_EVEN	
SAM4	DSST Sonic Acquisition Mode 4 - High Frequency Monopole Mode for P&S	MFD_EVEN	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status - Lower Dipole	255	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO1	STC Search Band Offset - Lower Dipole	3000	US
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW1	STC Search Bandwidth - Lower Dipole	8000	US
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE	
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM1	STC Filter - Lower Dipole	B.3-1.5K	
SFM2	STC Filter - Upper Dipole	B1-2K	
SFM4	STC Filter - Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	120	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	220	US/F
SLL1	STC Slowness Lower Limit - Lower Dipole	300	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	120	US/F
SST1	STC Slowness Step - Lower Dipole	4	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1	
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
SUL1	STC Slowness Upper Limit - Lower Dipole	1600	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	220	US/F
SWD1	STC Slowness Width - Lower Dipole	40	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0	US
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL1	STC Time Lower Limit - Lower Dipole	2450	US
TLL4	STC Time Lower Limit - Monopole P&S	580	US
TST1	STC Time Step - Lower Dipole	200	US
TST4	STC Time Step - Monopole P&S	50	US
TUL1	STC Time Upper Limit - Lower Dipole	20440	US
TUL4	STC Time Upper Limit - Monopole P&S	3480	US
TWD1	STC Time Width - Lower Dipole	2000	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	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	
HABK	HNGS Borehole Potassium Running Average	-0.00308342	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01085	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01236	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	3.7	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 19-Aug-2009 20:12

OP System Version: 17C0-154

MEST-B	SRPC-3762-Q1_2009_OP17	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

Input DLIS Files

DEFAULT	FMS_DSI_NGS_110LUP	FN:22	PRODUCER	19-Aug-2009 04:40	3913.6 M	3320.0 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_125PUP	FN:40	PRODUCER	19-Aug-2009 20:12

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner - B (Slim) Wellsite Calibration - Caliper Calibration							
Before: Calibration out of date 4-Jun-2009 2:47							
Caliper 1 Zero Measurement	12.00	N/A	12.57	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.44	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.77	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.68	N/A	N/A	N/A	IN
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 19-Aug-2009 2:08							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 19-Aug-2009 2:08							
TEMPERATURE REFERENCE :	N/A	N/A	19	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	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 19-Jun-2009 22:52 Before: 19-Aug-2009 2:13 After: 19-Aug-2009 9:52

Na 511 Peak Loc	40.00	39.80	39.61	39.67	0.05941	1.000	
Na 511 Peak Res	15.50	15.76	14.82	15.28	0.4578	2.000	%
High Voltage	1150	1181	1148	1151	3.680	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.8	143.0	0.2333	7.000	
Na 1785 Peak Res	8.500	8.553	8.699	8.643	-0.05636	2.000	%
Temperature	15.50	32.22	14.45	15.66	1.210	N/A	DEGC
Na Count Rate	45.00	37.08	35.73	35.02	-0.7076	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 19-Jun-2009 22:52 Before: 19-Aug-2009 2:13 After: 19-Aug-2009 9:52

Na 511 Peak Loc	40.00	39.62	39.64	39.63	-0.009205	1.000	
Na 511 Peak Res	15.50	16.69	14.98	15.11	0.1342	2.000	%
High Voltage	1150	1114	1083	1084	1.237	N/A	V
Na 1785 Peak Loc	142.6	142.4	142.2	142.2	0.05006	7.000	
Na 1785 Peak Res	8.500	8.478	8.399	8.229	-0.1703	2.000	%
Temperature	15.50	32.71	16.23	17.53	1.294	N/A	DEGC
Na Count Rate	45.00	38.14	35.65	34.94	-0.7110	8.000	CPS

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

Master: 19-Jun-2009 22:52 Before: 19-Aug-2009 2:13 After: 19-Aug-2009 9:52

Coincidence Count Rate Ratio	1.000	0.9751	1.004	1.002	-0.002253	0.05000

Micro Electrical Scanner - B (Slim) / Equipment Identification

Primary Equipment:		
MEST Sonde - B	MEDS - B	702
MEST Preamplifier Cartridge - AB	MEPC - AB	806
GPIT Cartridge - A	GPIC - A	719
MEST Acquisition Cartridge - A	MEAC - A	875
Auxiliary Equipment:		
MEST-B Preamplifier Cartridge Housing	MEPH - A	702
MEST Acquisition Cartridge Housing (Slim	MEAH - B	769

Hostile Natural Gamma Ray Cartridge - B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC - B	300
Auxiliary Equipment:		
HNGC Housing	HNGH - A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS - BA	194
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH - BA	205
Gamma Source Radioactive	GSR - U	616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value
Master		39.80
Before		39.61
After		39.67

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		15.76
Before		14.82
After		15.28

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	High Voltage V	Value
Master		1181
Before		1148
After		1151

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		142.6
Before		142.8
After		143.0

Phase	Na 1785 Peak Res %	Value
Master		8.553
Before		8.699
After		8.643

Phase	Temperature DEGC	Value
Master		32.22
Before		14.45
After		15.66

135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	
7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	
-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		37.08
Before		35.73
After		35.02
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 19-Jun-2009 22:52 Before: 19-Aug-2009 2:13 After: 19-Aug-2009 9:52

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.62
Before		39.64
After		39.63
37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		16.69
Before		14.98
After		15.11
12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)

Phase	High Voltage V	Value
Master		1114
Before		1083
After		1084
900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		142.4
Before		142.2
After		142.2
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		8.478
Before		8.399
After		8.229
7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		32.71
Before		16.23
After		17.53
-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		38.14
Before		35.65
After		34.94
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 19-Jun-2009 22:52 Before: 19-Aug-2009 2:13 After: 19-Aug-2009 9:52

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9751
Before		1.004
After		1.002
0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)

Master: 19-Jun-2009 22:52
Before: 19-Aug-2009 2:13
After: 19-Aug-2009 9:52

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge	DTCH - A	
DTC-H Telemetry Cartridge	DTCH - A	8753

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing	ECH - KC	2304

Company:	Lamont Doherty
Well:	Expedition 323 Site U1344A
Field:	Bering Sea
Rig:	JOIDES Resolution
Country:	USA

Schlumberger

Dipole Shear Sonic
Natural Gamma Spectroscopy