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OTHER SERVICES2  
OS1:  
OS2:  
OS3:  
OS4:  
OS5:

REMARKS: RUN NUMBER 2

SERVICE ORDER #:  
PROGRAM VERSION:  
FLUID LEVEL:

LOGGED INTERVAL	START	STOP
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RUN 2

GSR-U  
DTM-B

LEH-QT			31.45
LEH-QT			
DTC-H	CTEM		30.28
ECH-KC 9349	TelStatus		30.56
	ToolStatu		29.64

Material	Value
AH-CMEAY	29.64
AH-CMEAY 764	

DSST-B  
SPAC-B 18  
ECH-SD 18  
SMDR-BD 8070  
SSIJ-BA 65  
SMDX-AA 8026

28.35

PWF 12.81

AH-CMEAY  
AH-CMEAY 765

12.81

DTA-A  
ECH-KE 8231  
DTA-A 8231

11.52

Detector 9.92

10.30

NGT-C  
NGD-A 1720  
NGH-B 1721  
NGC-C 1731  
NGCH-A 1733

MEST-B  
MEAH-B 701  
MEAC-A 833  
MEPH-A 701  
GPIC-A 840  
MEPC-AB 806  
MEDS-B 702

7.68

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

0.46

0.00

MAXIMUM STRING DIAMETER 3.63 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS



Input DLIS Files

DEFAULT FMS\_NGS\_DSI\_015LUP FN:25 PRODUCER 24-Jul-2001 02:21 3521.7 M 2794.1 M


Output DLIS Files

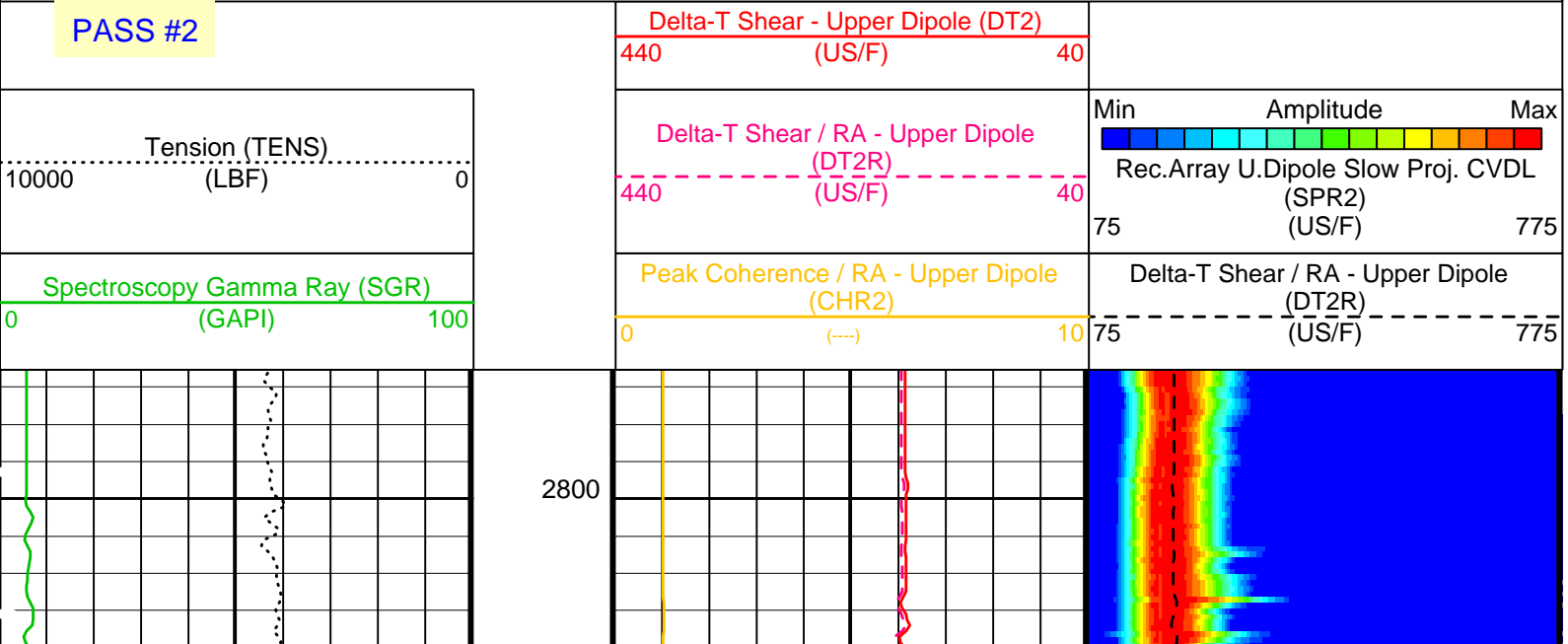
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REDUCE FMS\_NGS\_DSI\_034PUP FN:59 PRODUCER 25-Jul-2001 21:35 3523.6 M 2796.5 M

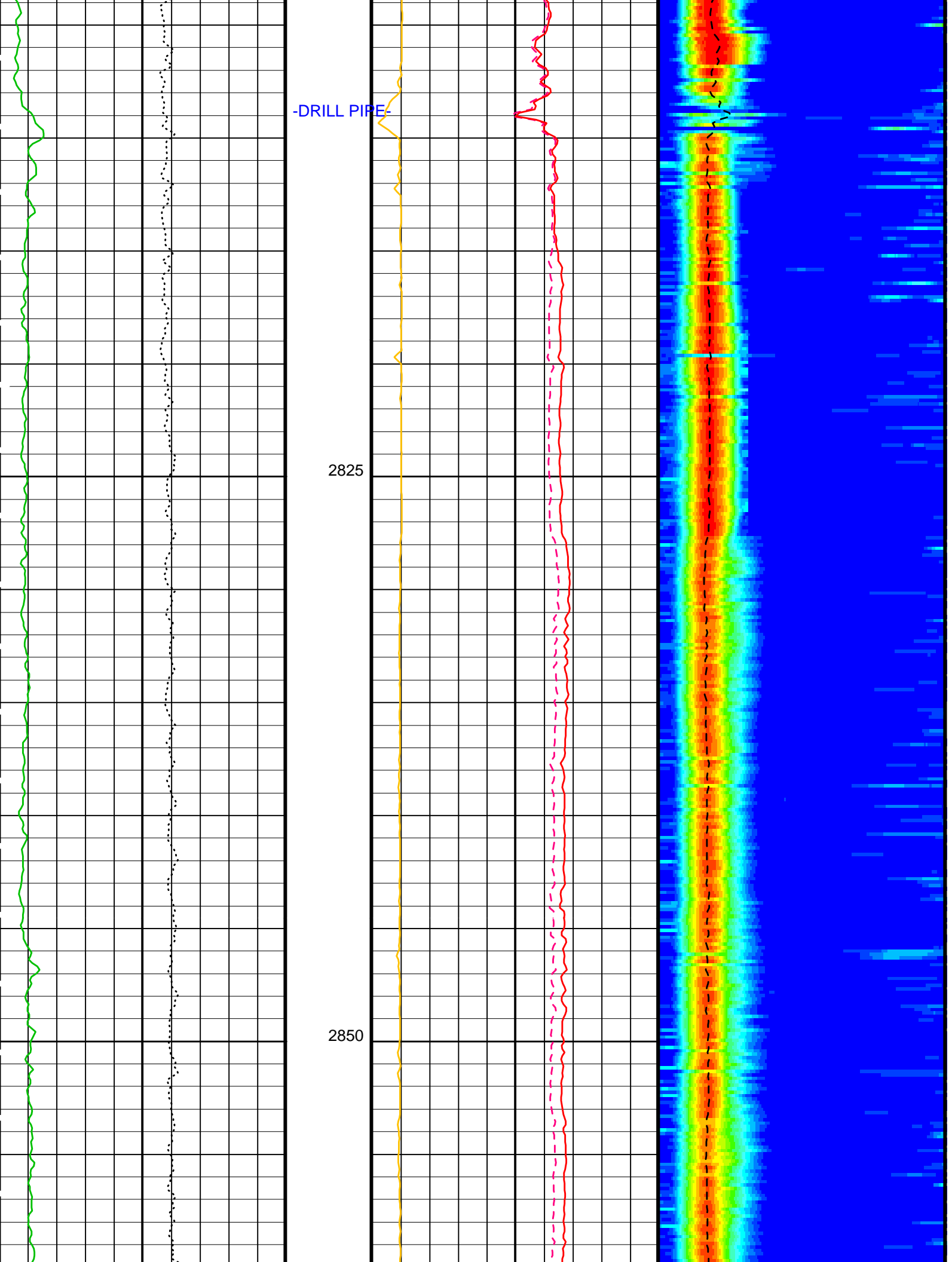
OP System Version: 9C2-303  
MCM

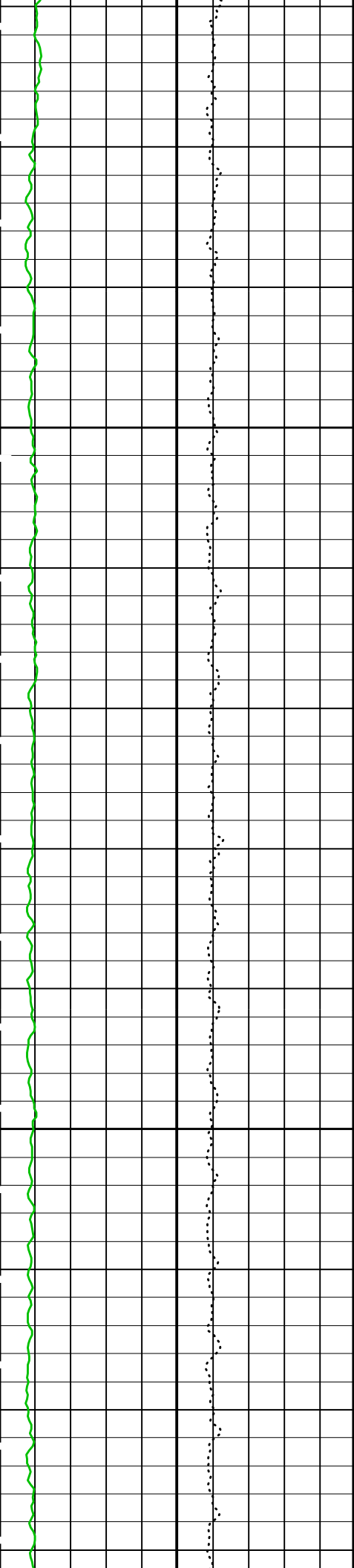
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DTA-A 9C2-303 DSST-B 9C2-303  
DTC-H 9C2-303

PIP SUMMARY

 Time Mark Every 60 S

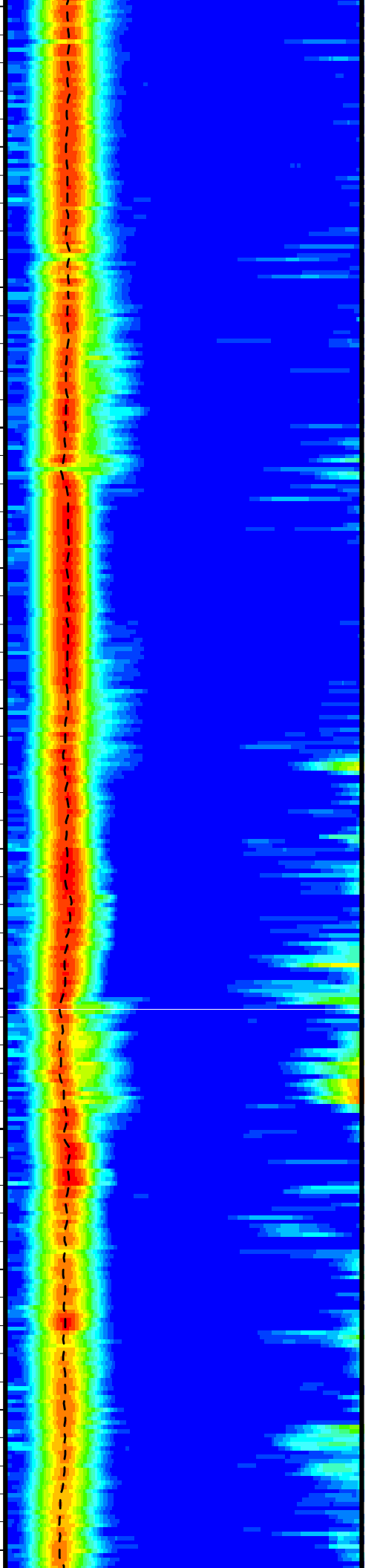
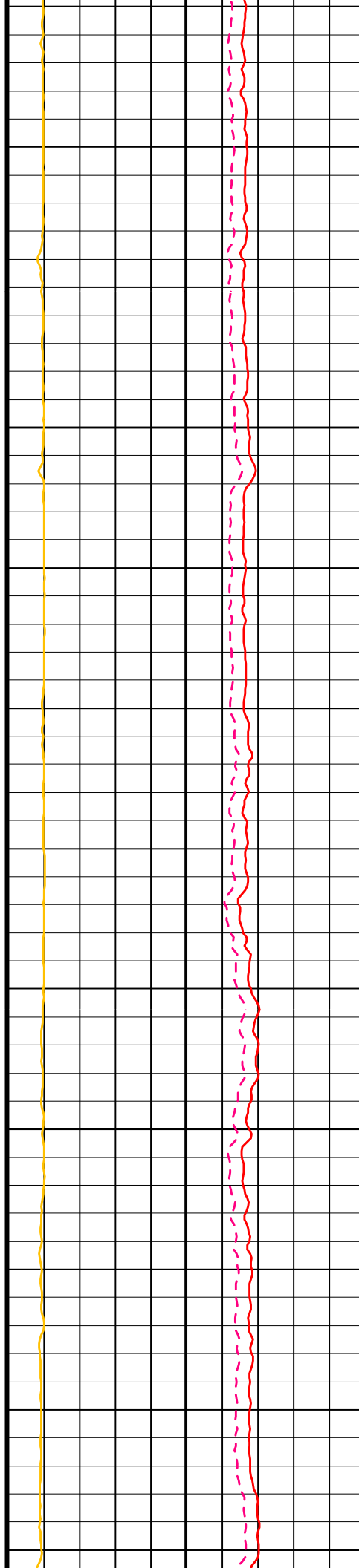


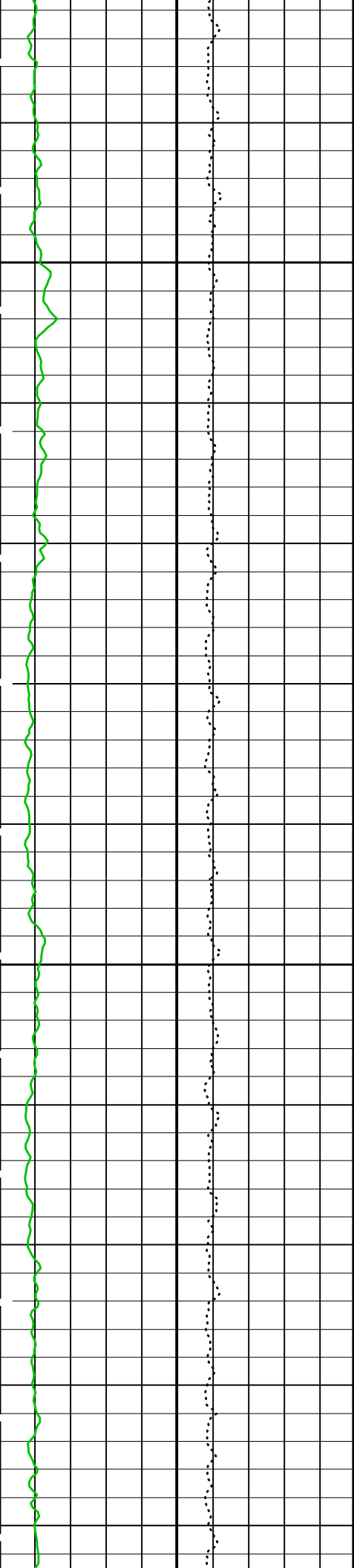




2875

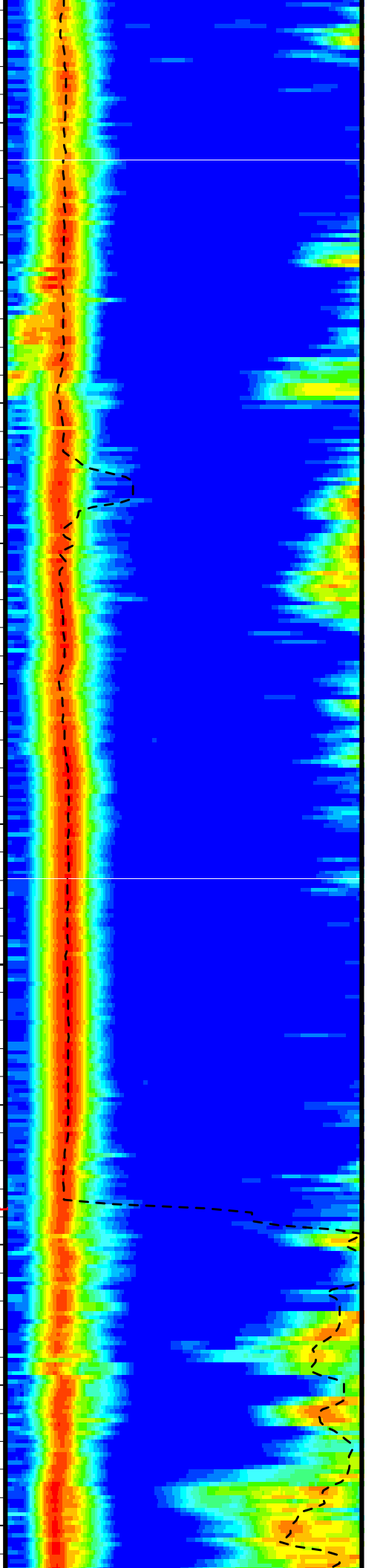
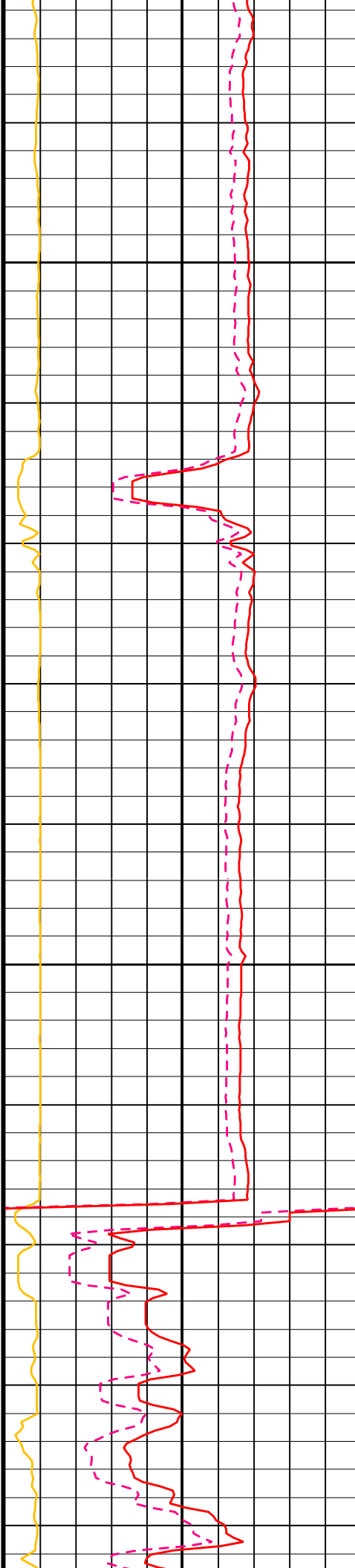
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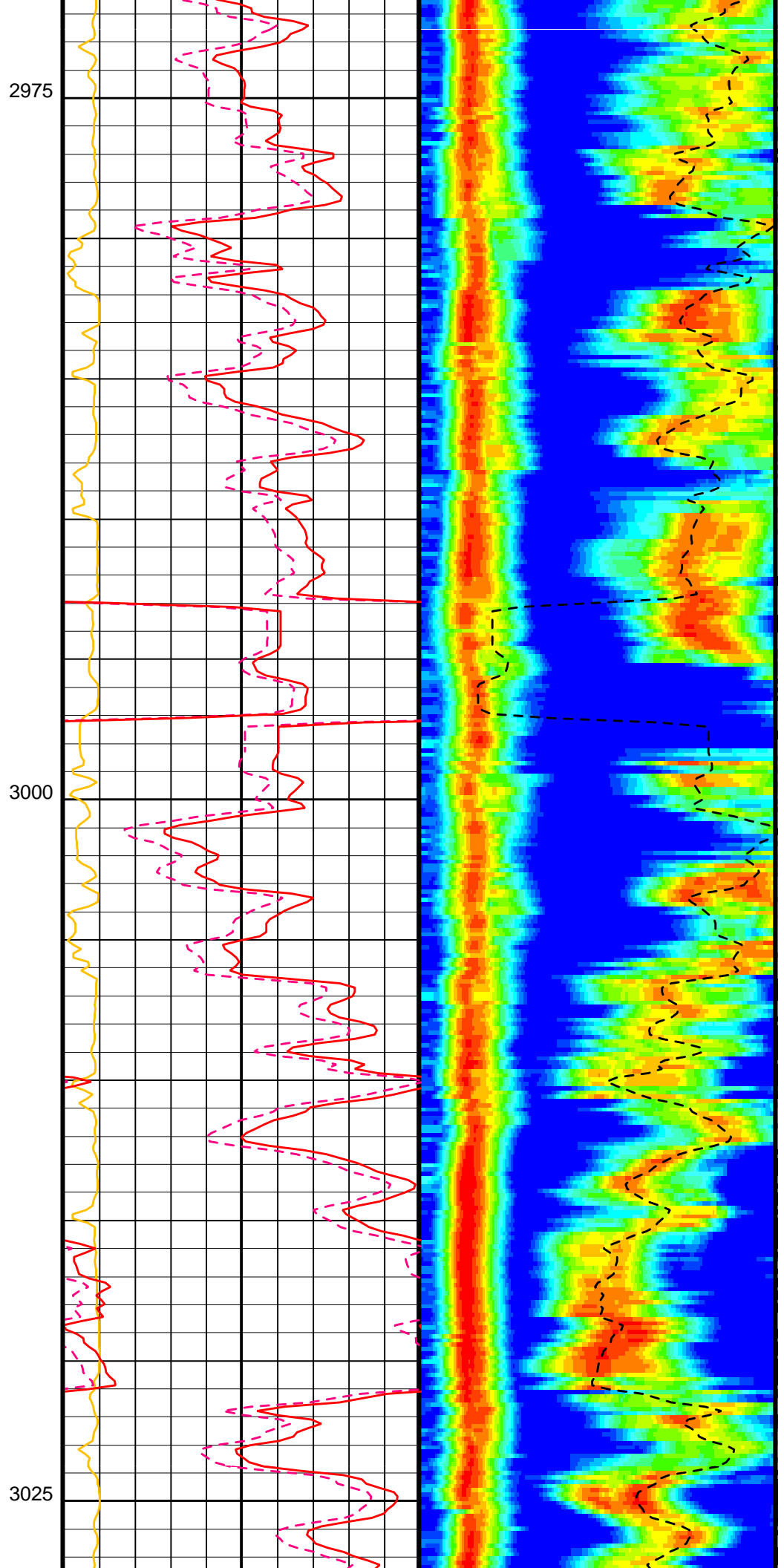
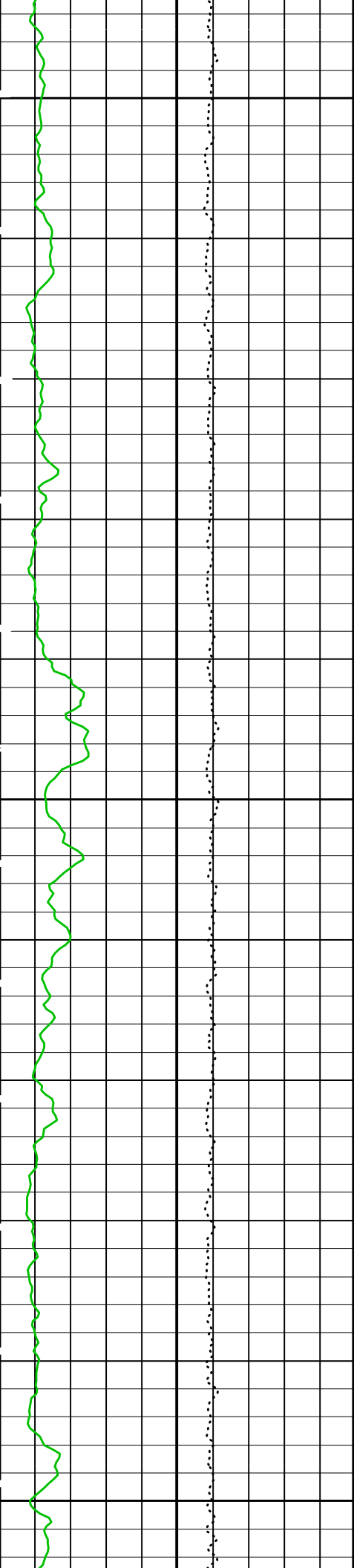




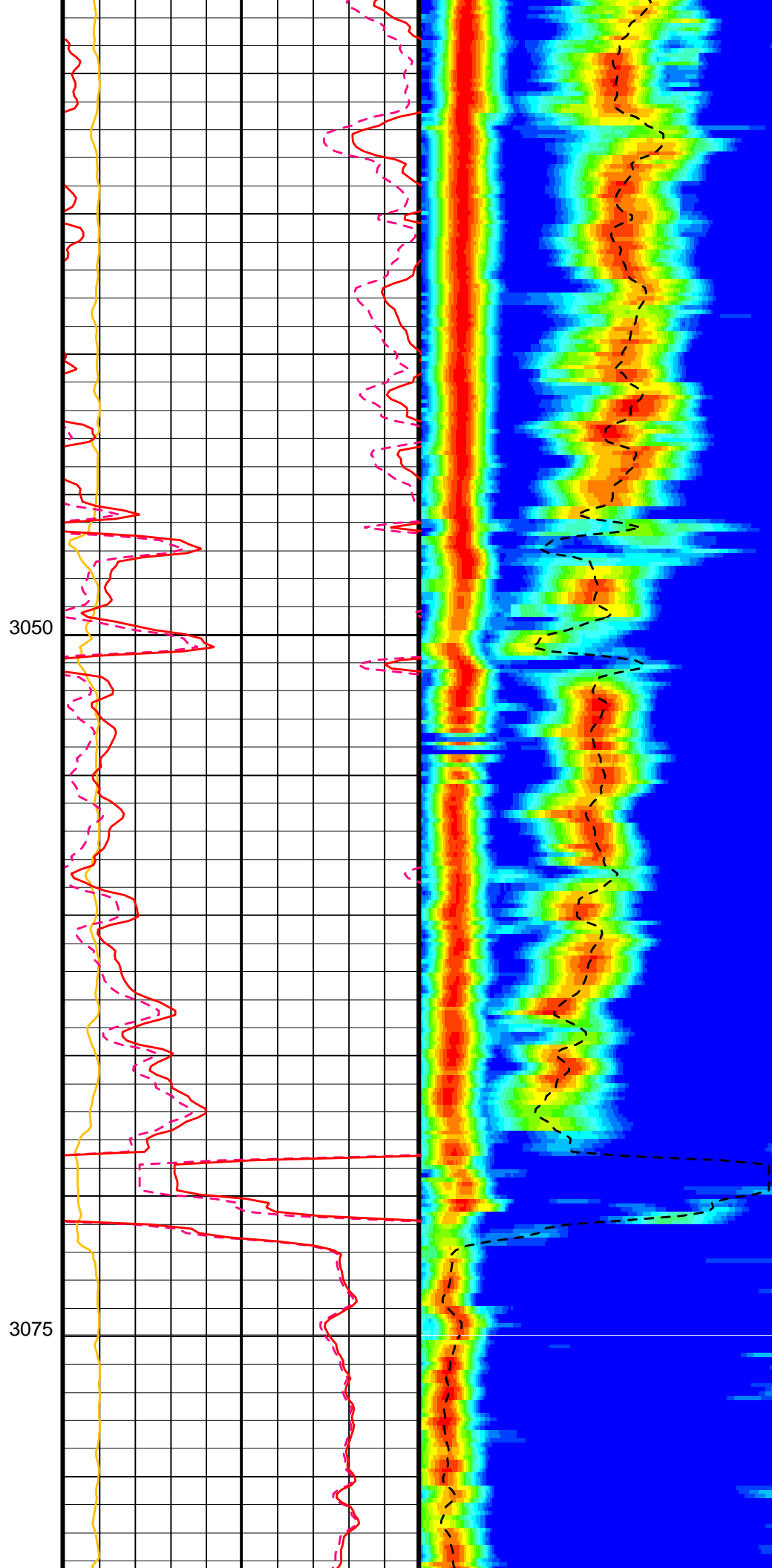
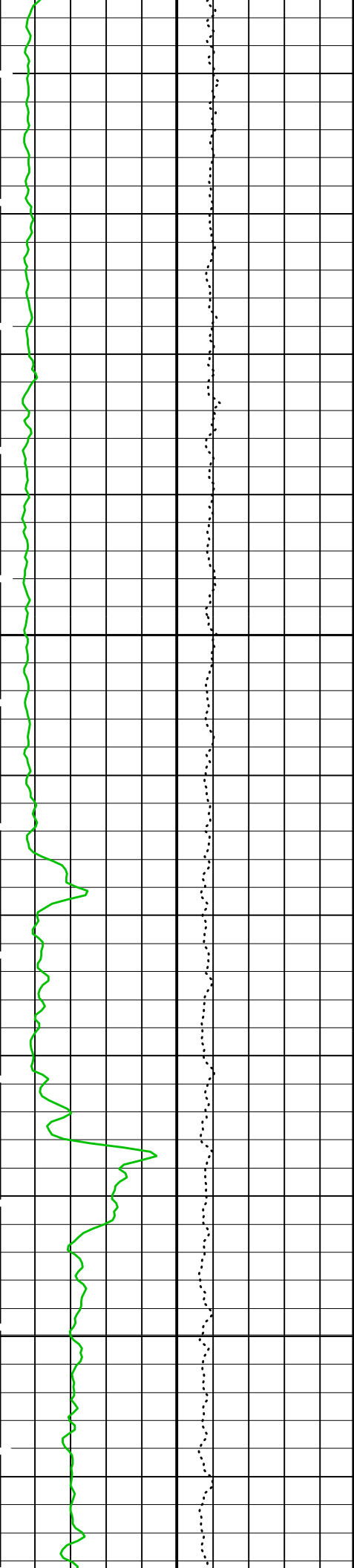
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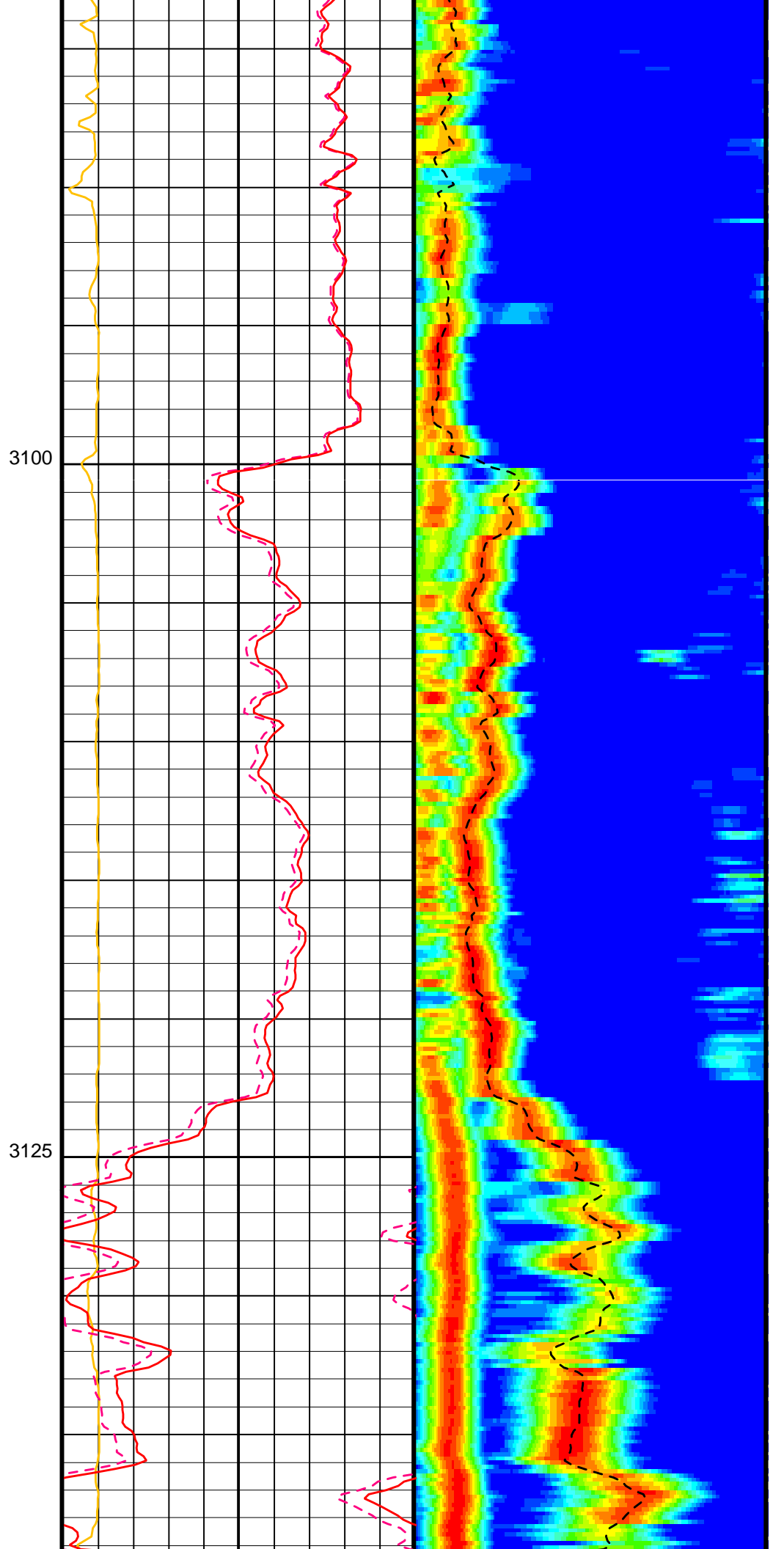
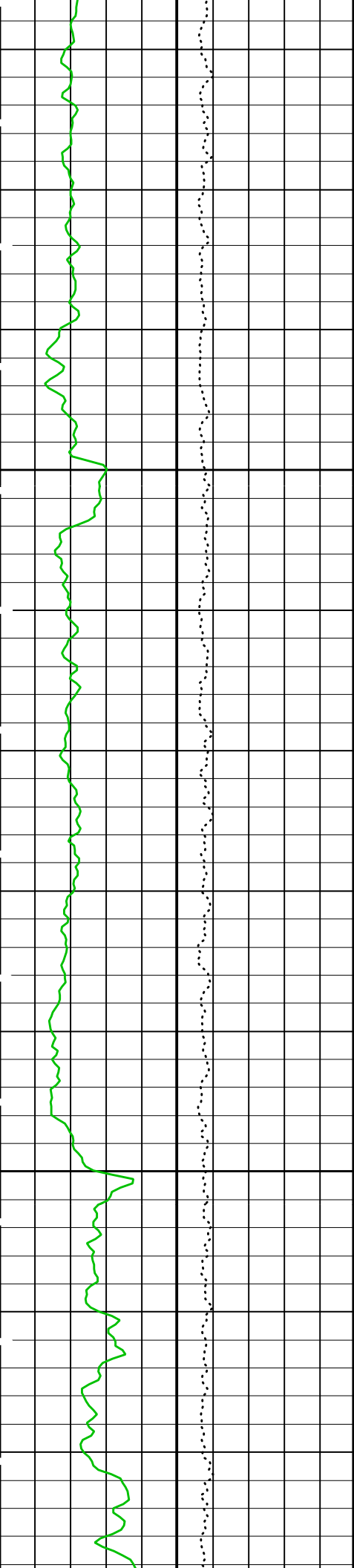
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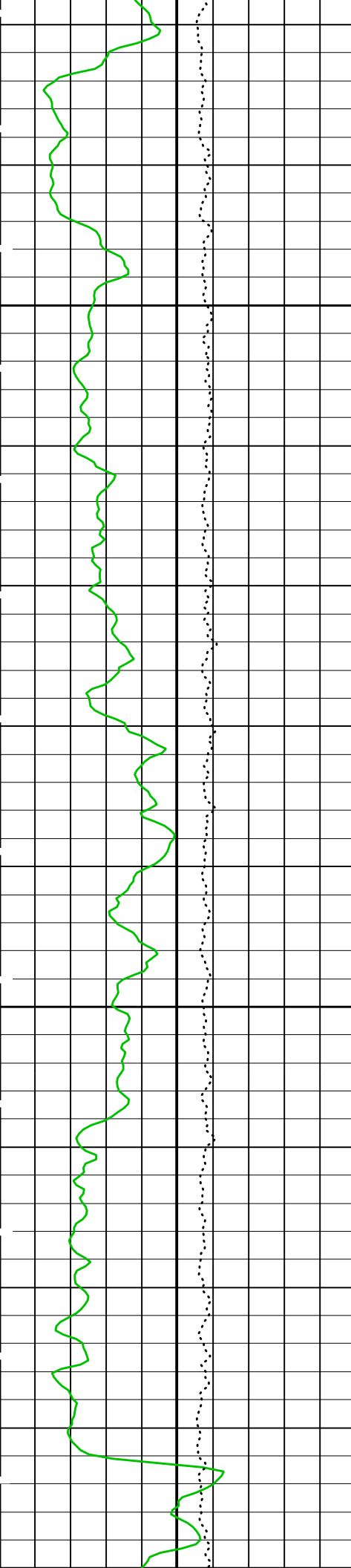






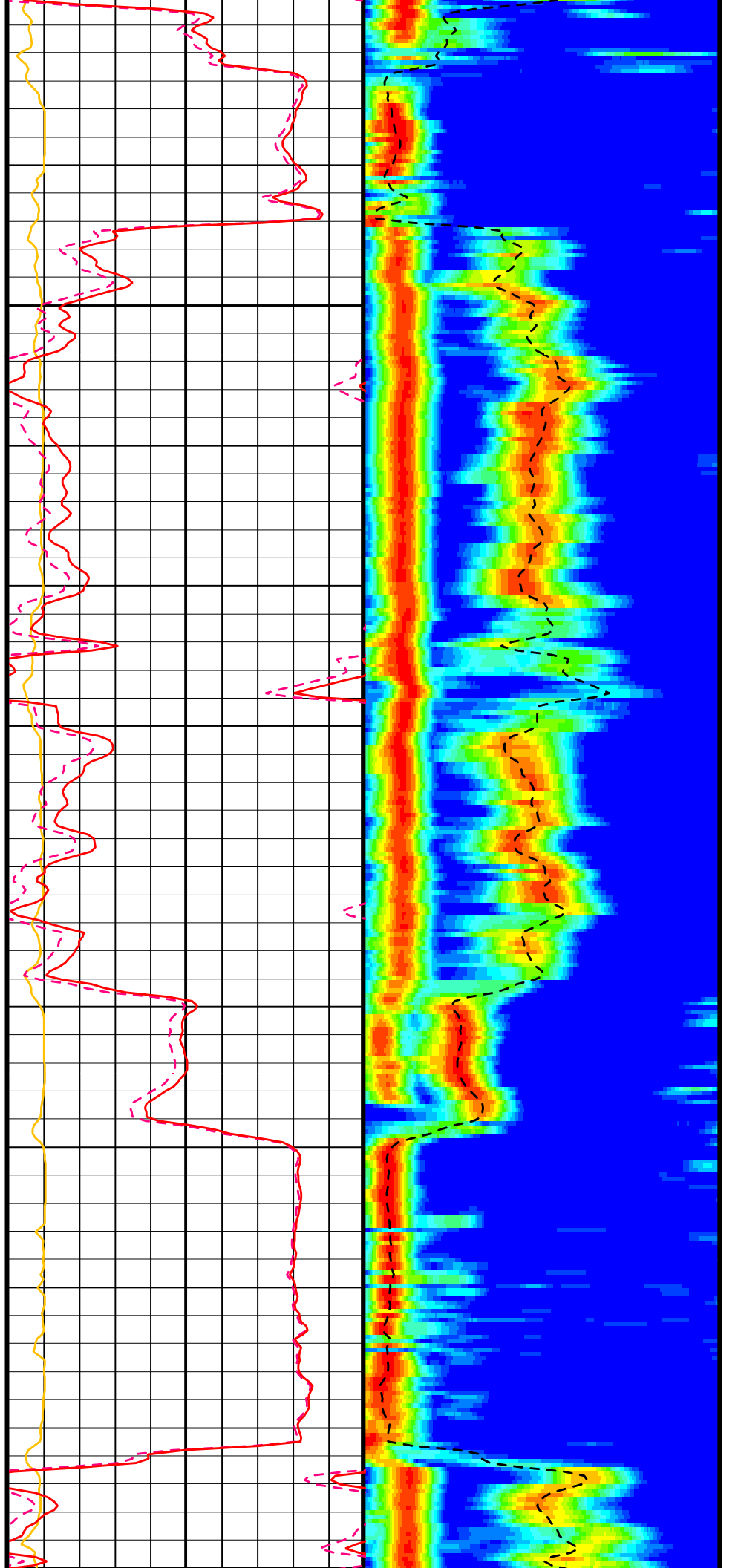


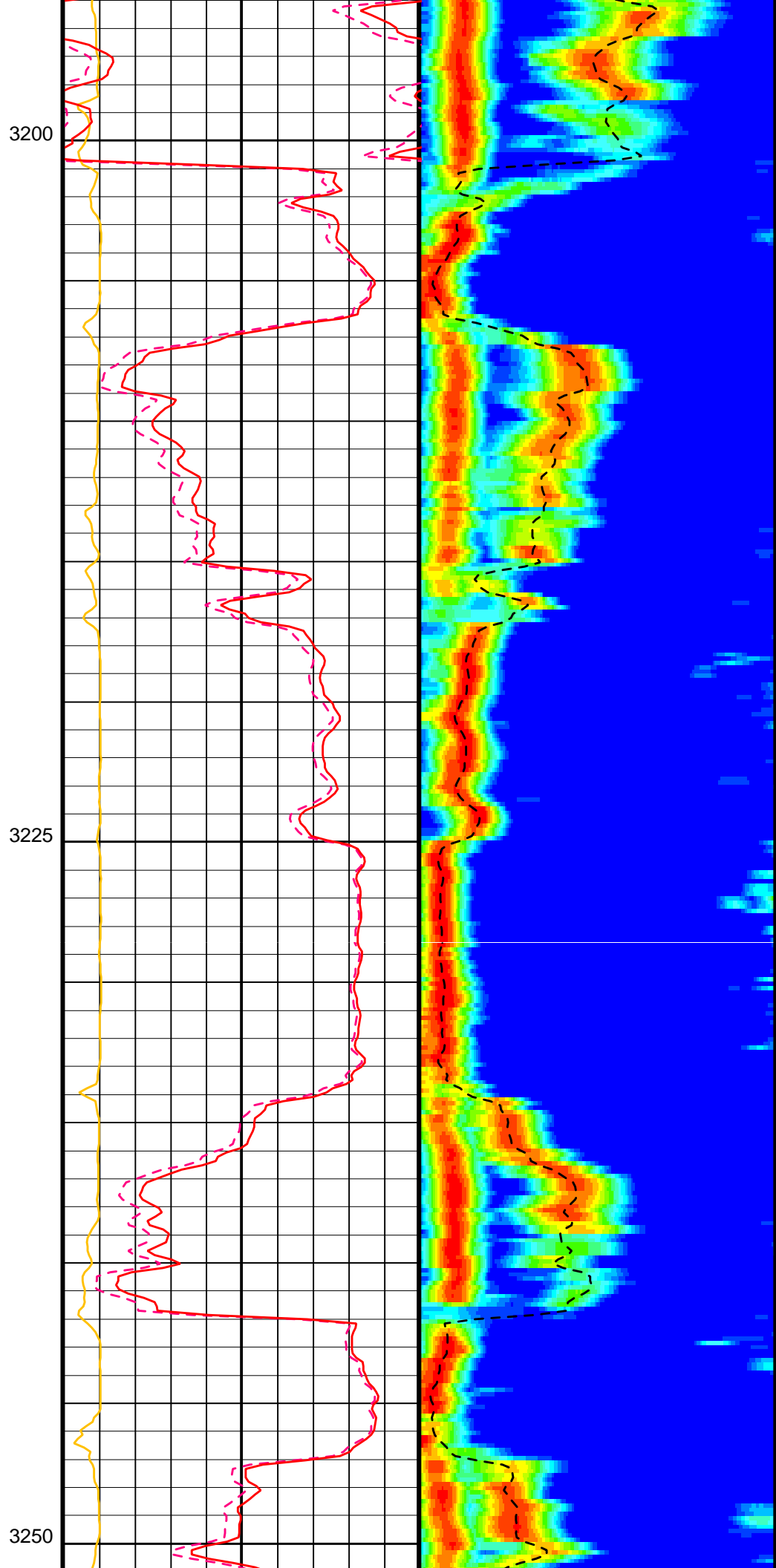
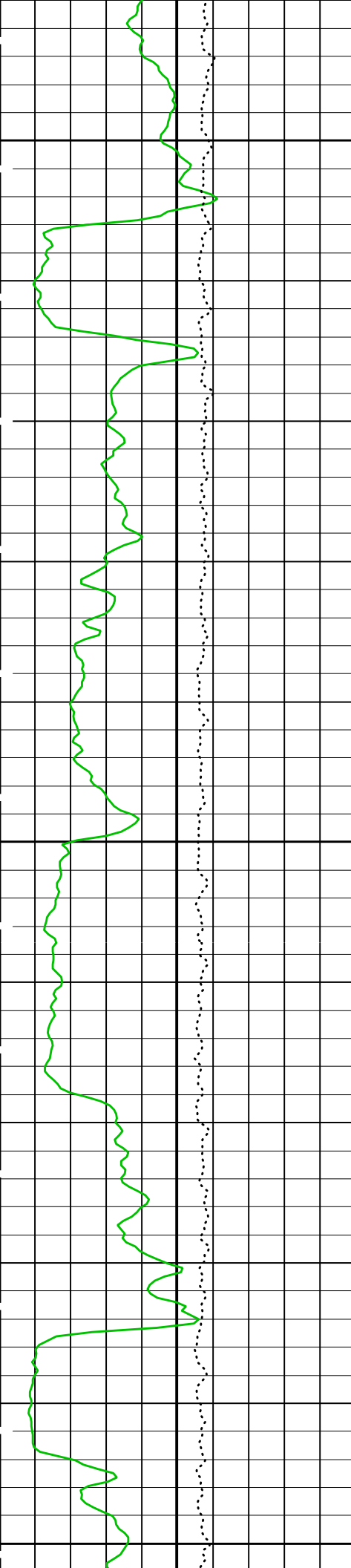


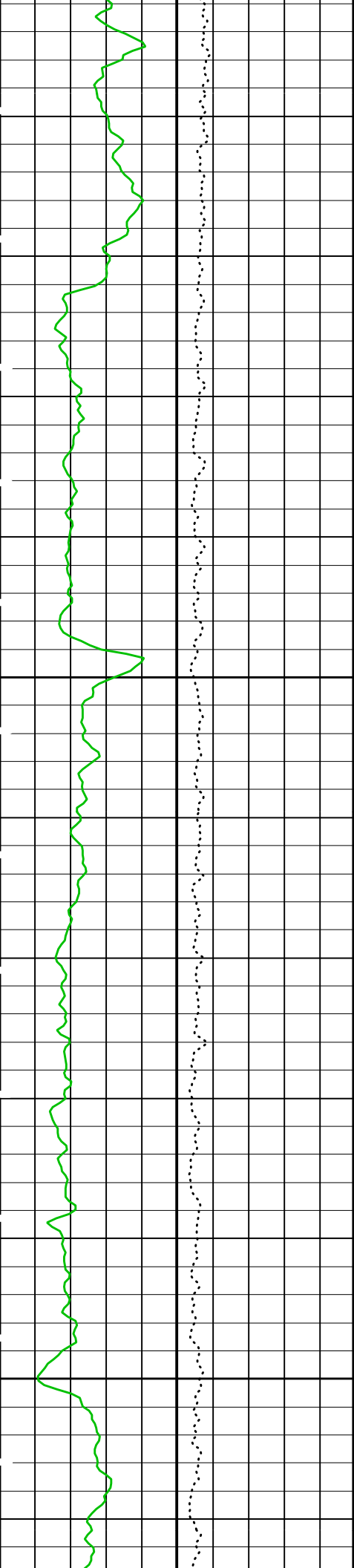


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3175

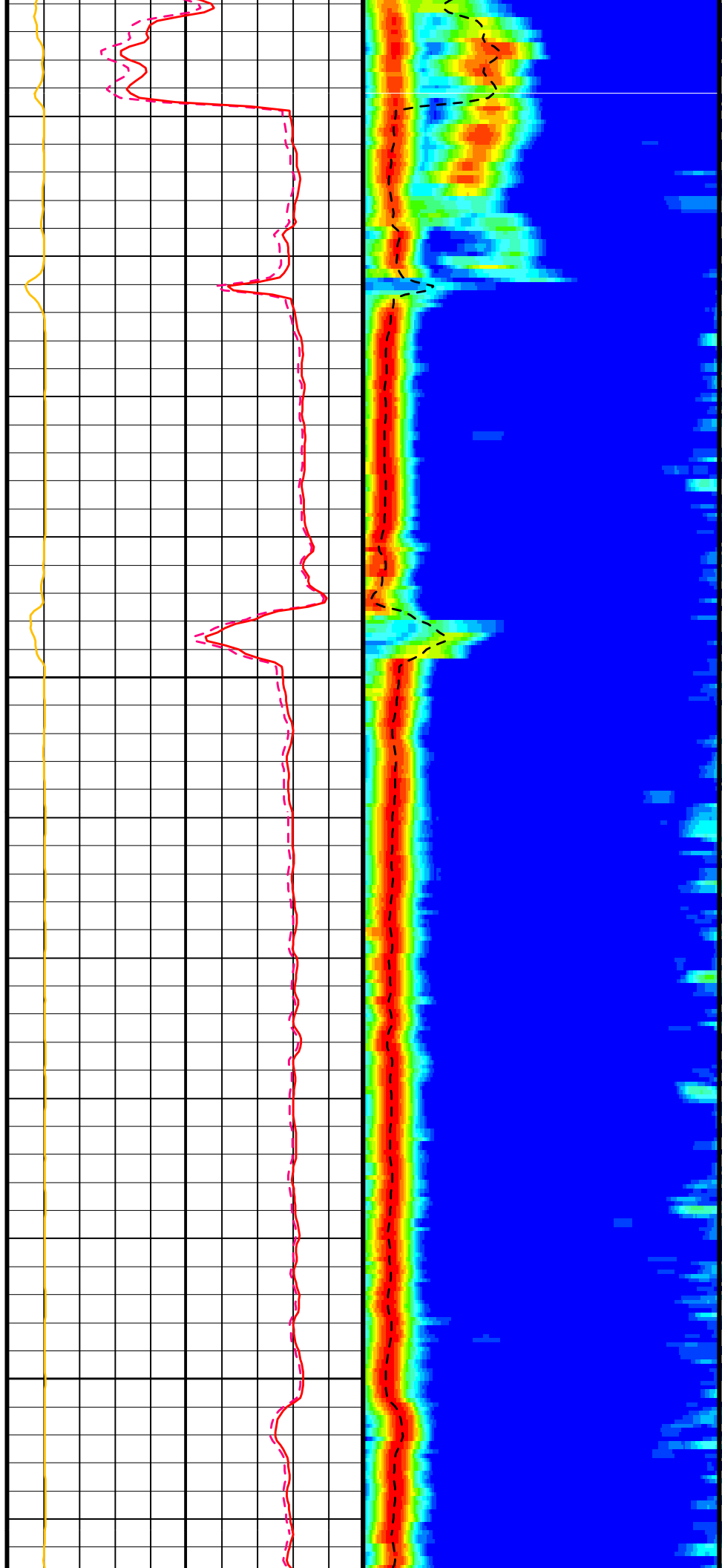


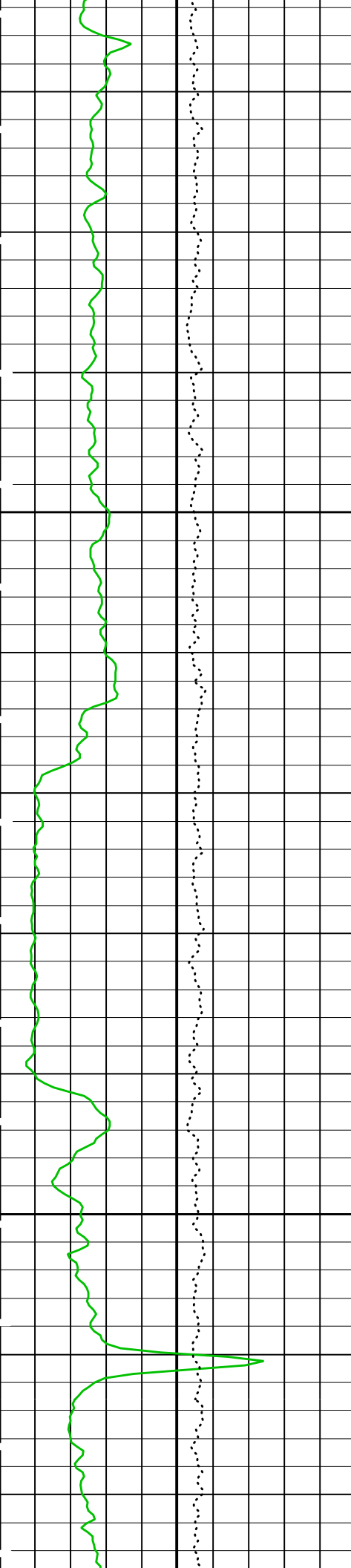




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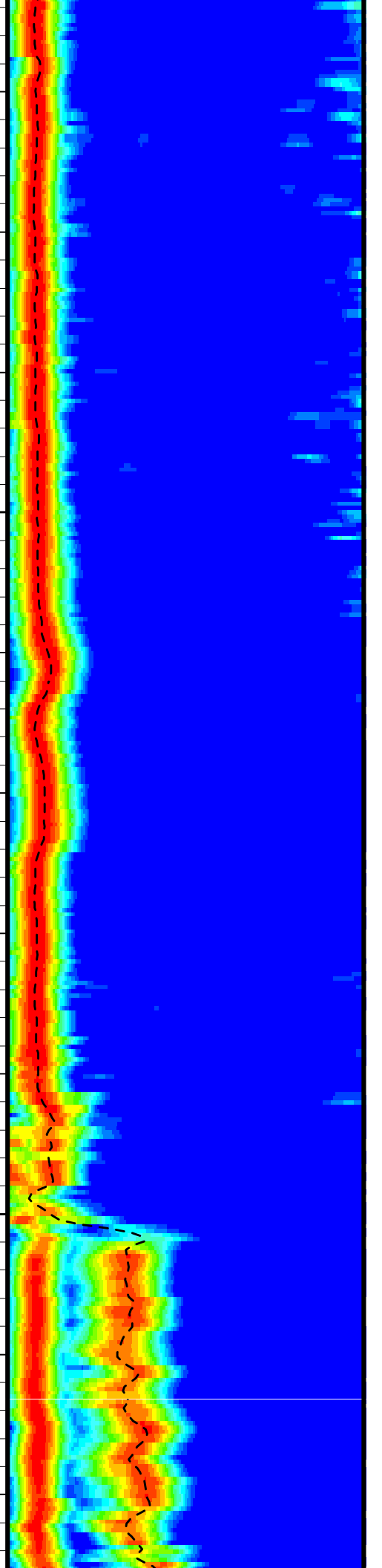
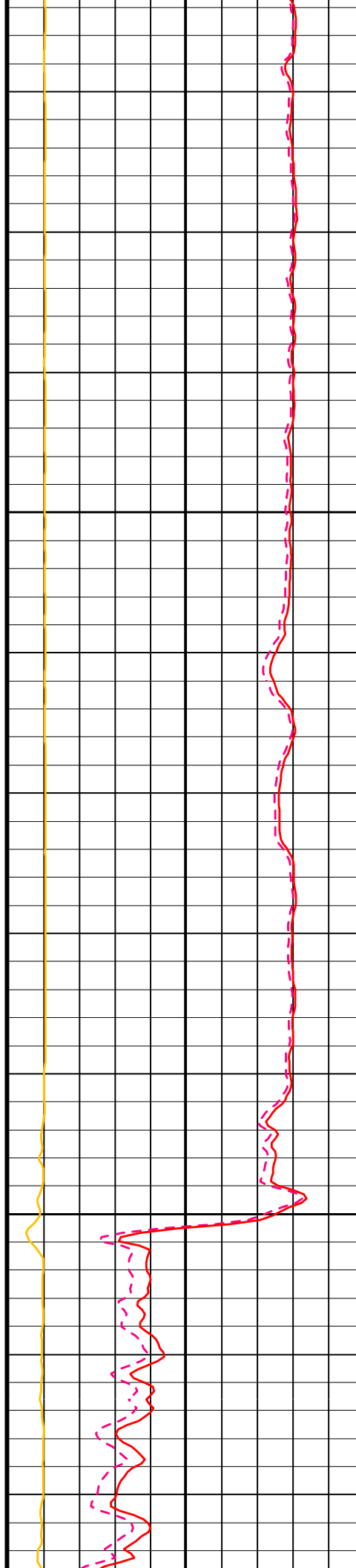
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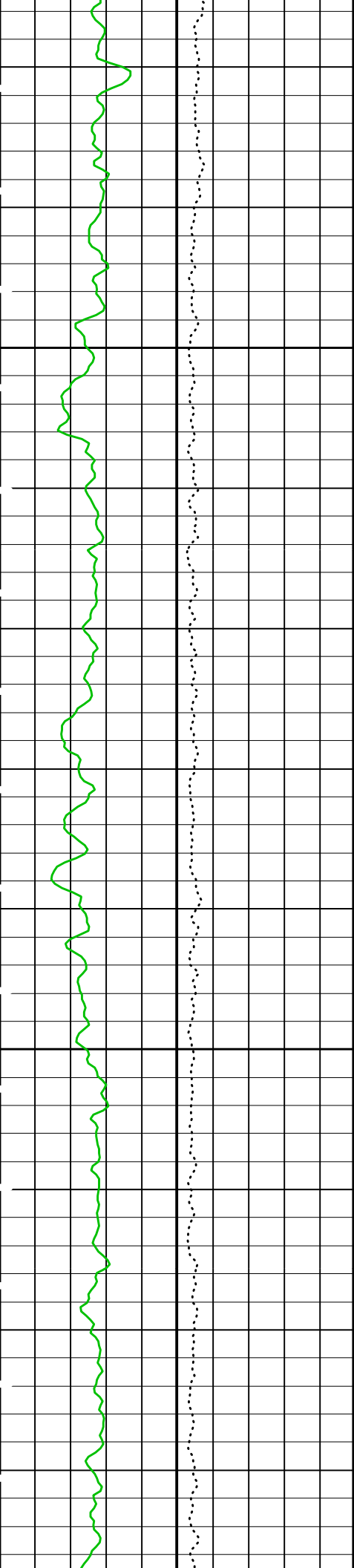




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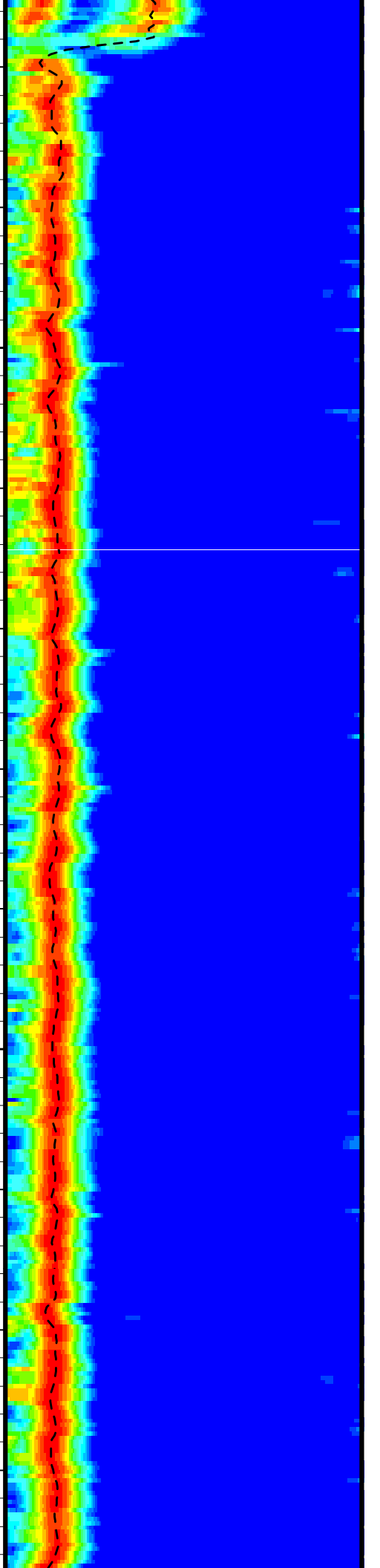
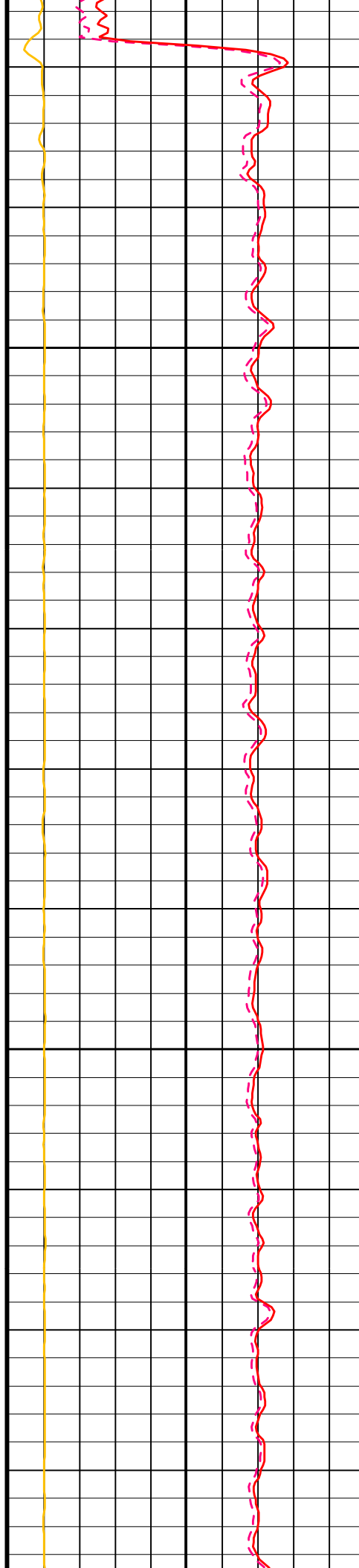
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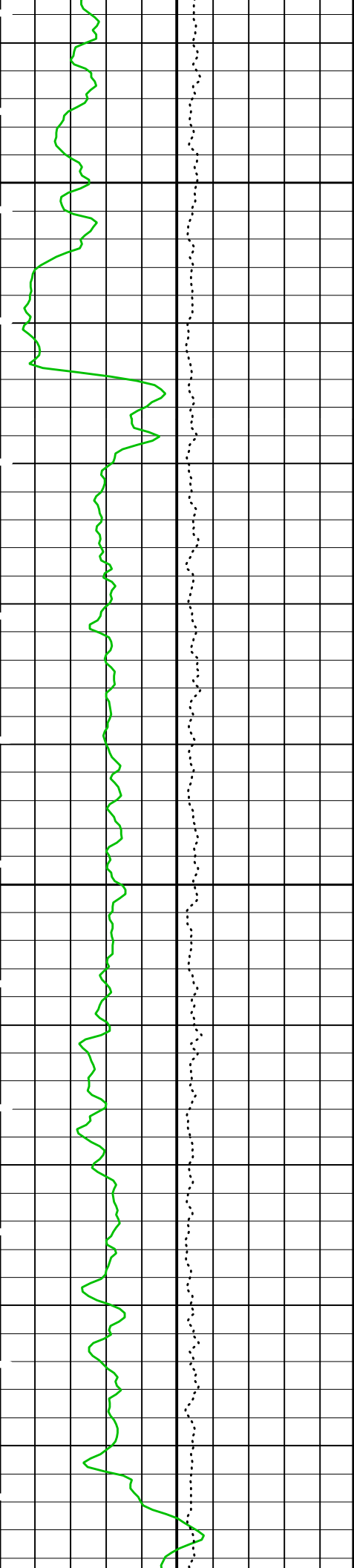




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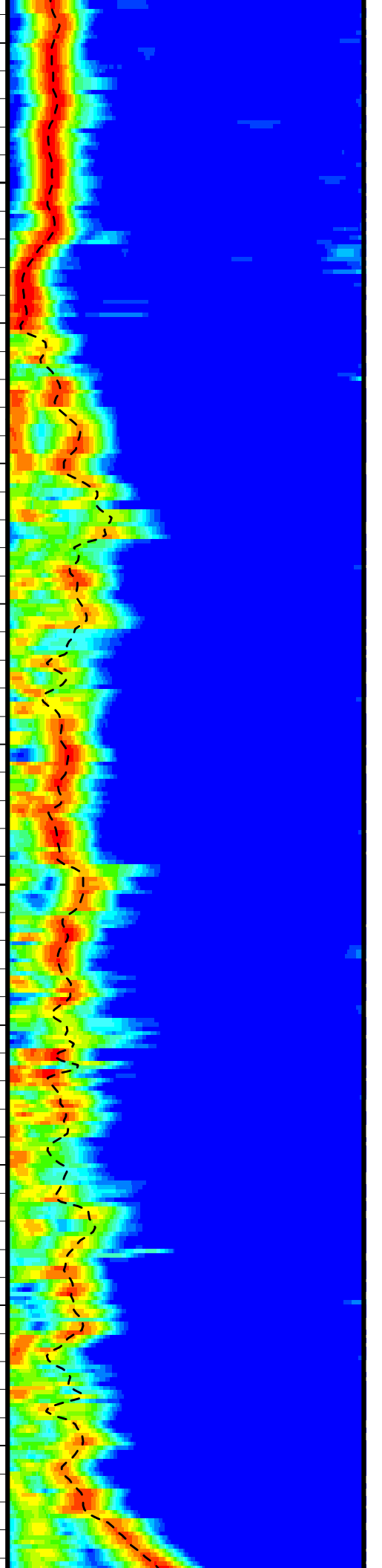
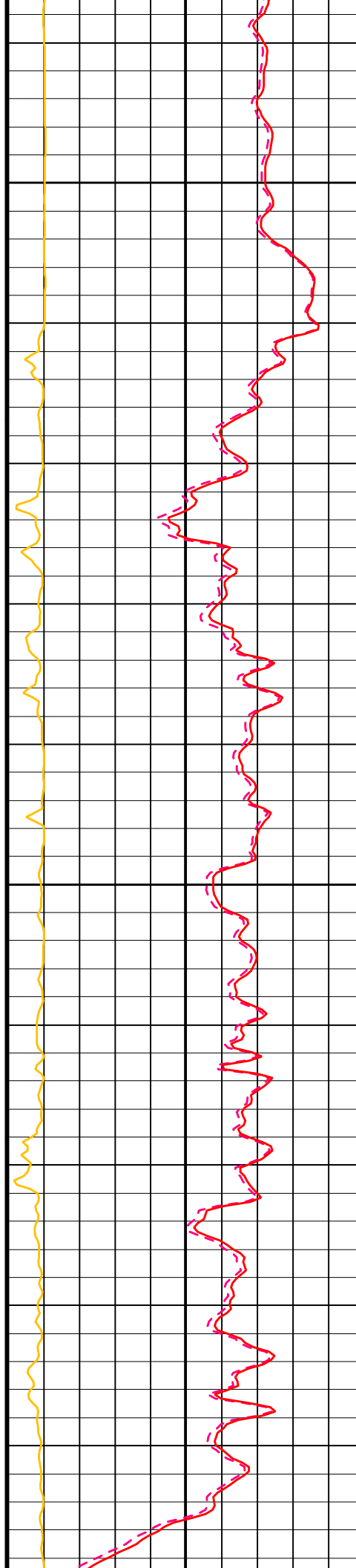
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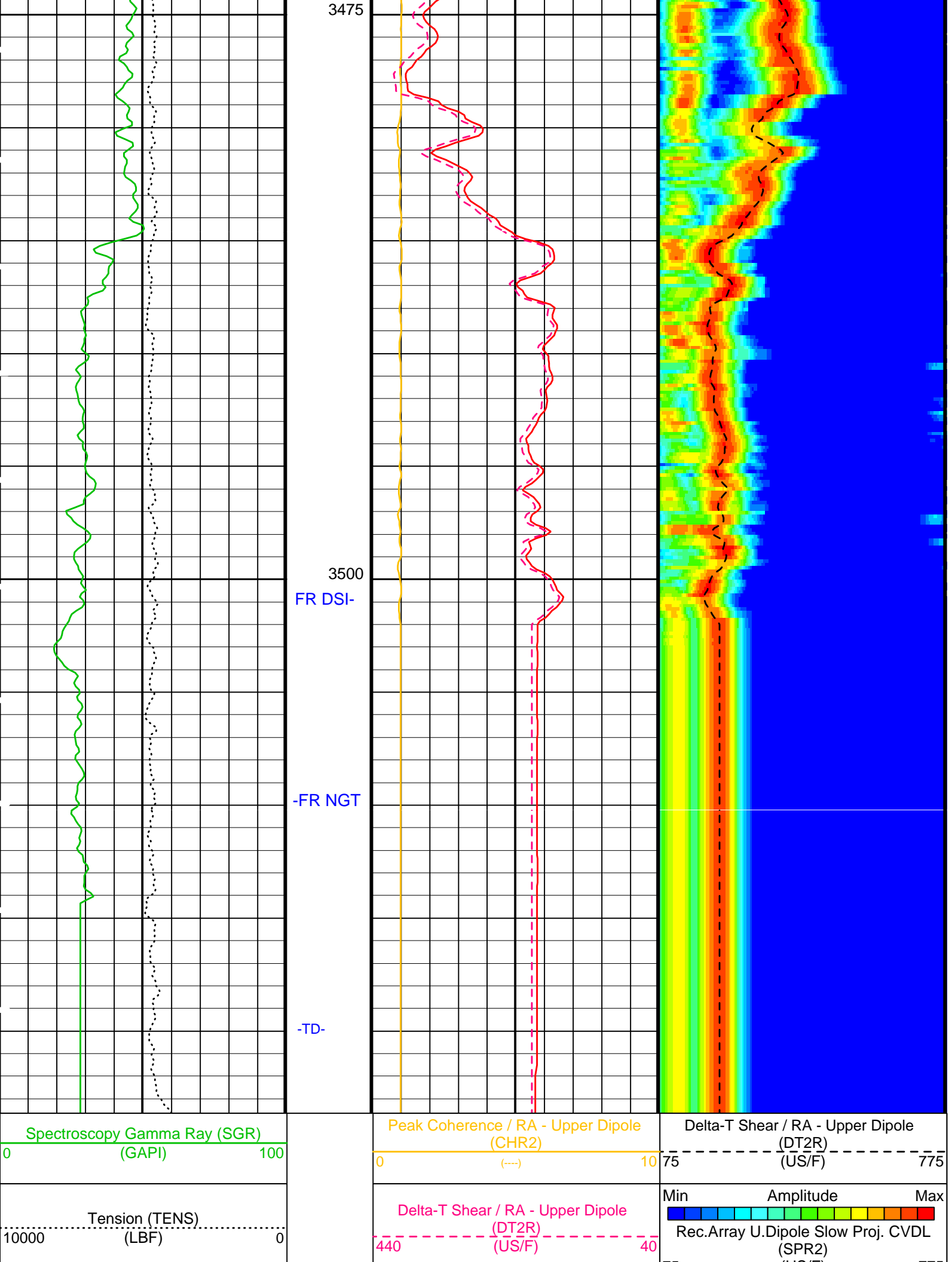


3425

3450







		75	(US/F)	775
	PASS #2	Delta-T Shear - Upper Dipole (DT2)		
		440	(US/F)	40

	PIP SUMMARY
	Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
BS	Bit Size	9.875	IN
CBAR	Constant Barite	1	
CGMI	Spectro Computed Gamma Ray Minimum	0	GAPI
CGSH	Spectro Computed Gamma Ray Shale	100	GAPI
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DFD	Drilling Fluid Density	1.10	G/C3
DLCS	Label Compressional Source - Dipole Shear	USE	
DO	Depth Offset for Playback	2.0	M
DSHL	Label Slowness Lower Limit - Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	775	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	480	
KMIN	Potassium Minimum	0	
KSHA	Potassium Shale	0.02	
NFO	NGT Filtering Option	KALMAN	
PMUD	Potassium Mud	0	%
PP	Playback Processing	NORMAL	
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
SAM2	DSST Sonic Acquisition Mode 2 - Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SBO2	STC Search Band Offset - Upper Dipole	3000	US
SBW2	STC Search Bandwidth - Upper Dipole	8000	US
SFC2	STC Formation Character - Upper Dipole	SELECTABLE	
SFM2	STC Filter - Upper Dipole	B1-3K	
SGMI	Spectro Gamma Ray Minimum	0	GAPI
SGSH	Spectro Gamma Ray Shale	100	GAPI
SLL2	STC Slowness Lower Limit - Upper Dipole	75	US/F
SST2	STC Slowness Step - Upper Dipole	4	US/F
SSW2	STC Source Waveform - Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit - Upper Dipole	775	US/F
SWD2	STC Slowness Width - Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill - Upper Dipole	0	US
TLL2	STC Time Lower Limit - Upper Dipole	600	US
TMIN	Thorium Minimum	0	PPM
TSHA	Thorium Shale	12	PPM
TST2	STC Time Step - Upper Dipole	200	US
TUL2	STC Time Upper Limit - Upper Dipole	15525	US
TWD2	STC Time Width - Upper Dipole	2000	US
TWI2	STC Integration Time Window - Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UMIN	Uranium Minimum	0	PPM
USHA	Uranium Shale	3	PPM
UTXG	Upper Dipole Transmitter Geometry	162	IN

Format: DSST_UPPER_DIPOLE_VDL_COLOR	Vertical Scale: 1:200	Graphics File Created: 25-Jul-2001 21:35
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OP System Version: 9C2-303			
MCM			
MEST-B	9C2-303	NGT-C	9C2-303
DTA-A	9C2-303	DSST-B	9C2-303
DTC-H	9C2-303		

Input DLIS Files					
DEFAULT	FMS_NGS_DSI_015LUP	FN:25	PRODUCER	24-Jul-2001 02:21	3521.7 M 2794.1 M

Output DLIS Files

DEFAULT	FMS_NGS_DSI_034PUP	FN:58	PRODUCER	25-Jul-2001 21:35
REDUCE	FMS_NGS_DSI_034PUP	FN:59	PRODUCER	25-Jul-2001 21:35

Input DLIS Files

DEFAULT	FMS_NGS_DSI_014LUP	FN:23	PRODUCER	24-Jul-2001 00:03	3521.7 M	3023.2 M
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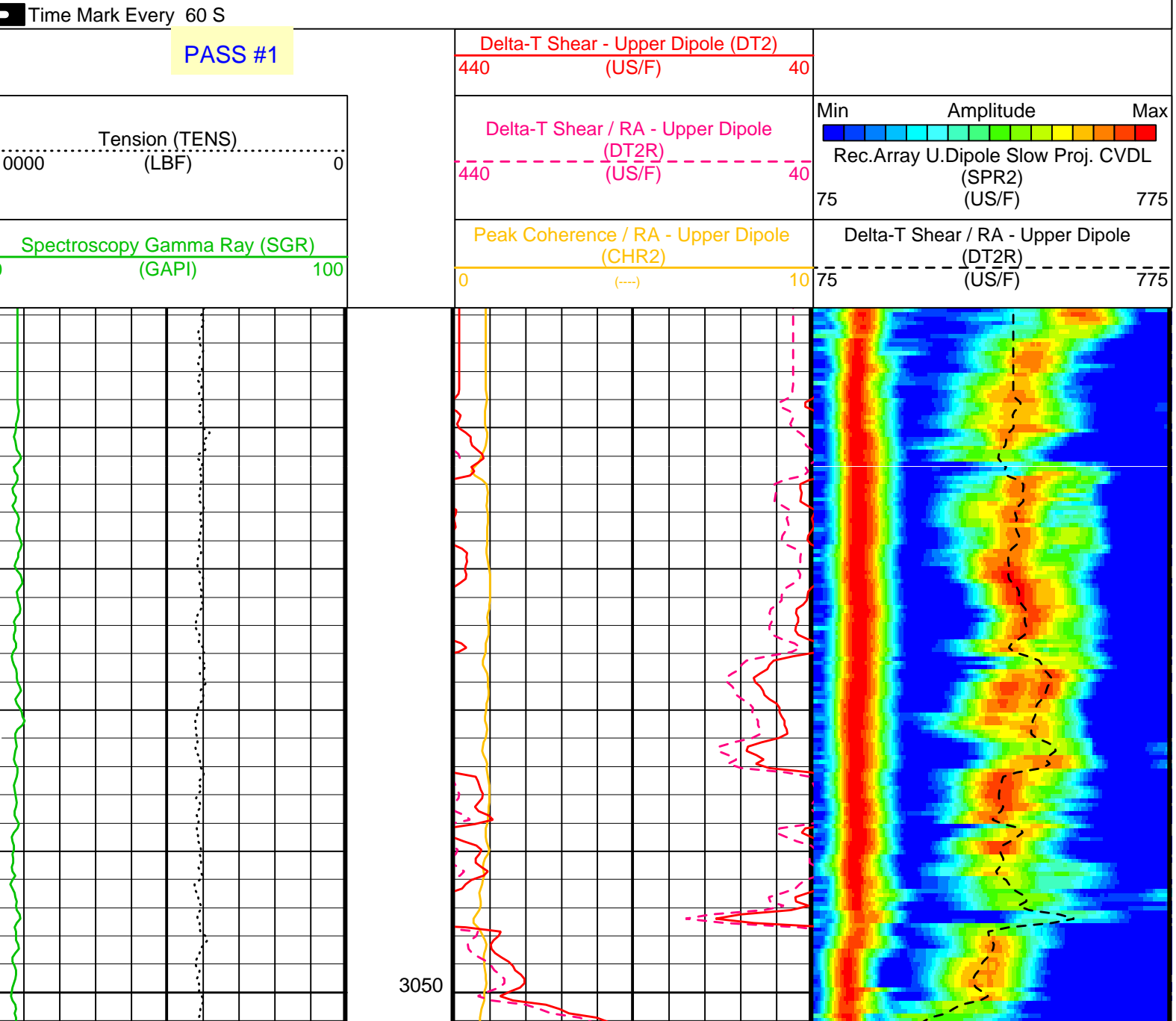
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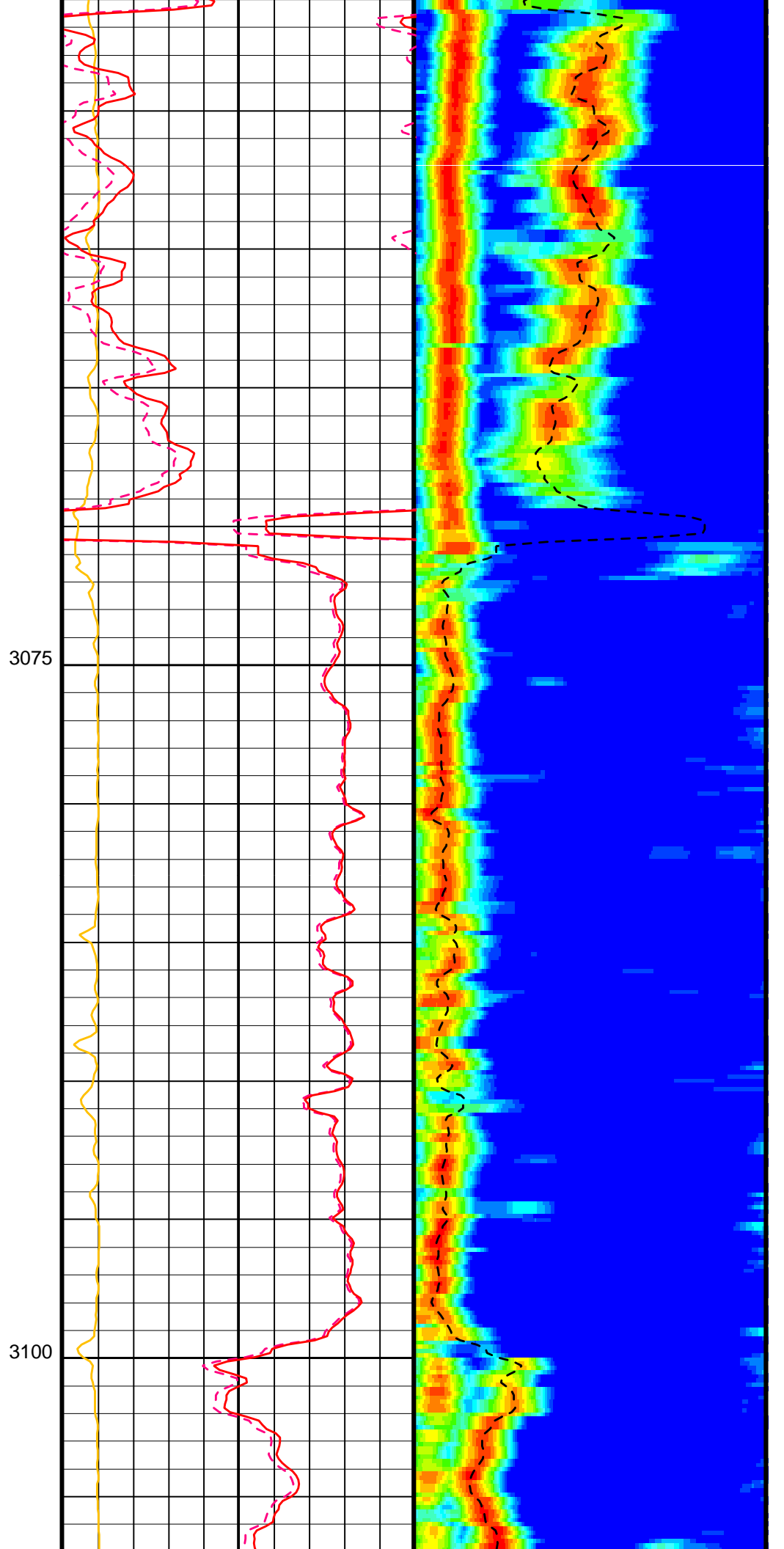
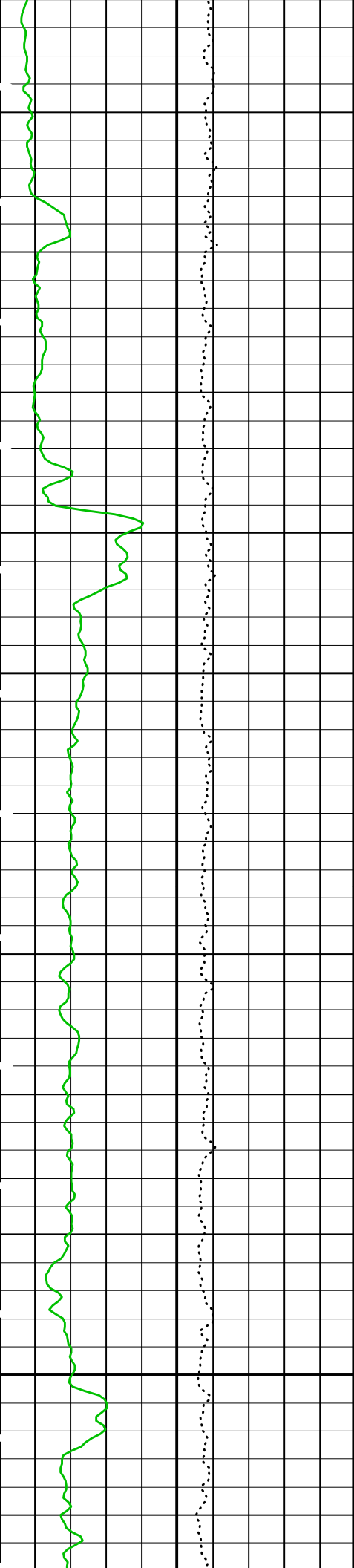
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REDUCE	FMS_NGS_DSI_028PUP	FN:47	PRODUCER	25-Jul-2001 20:54	3523.6 M	3025.7 M

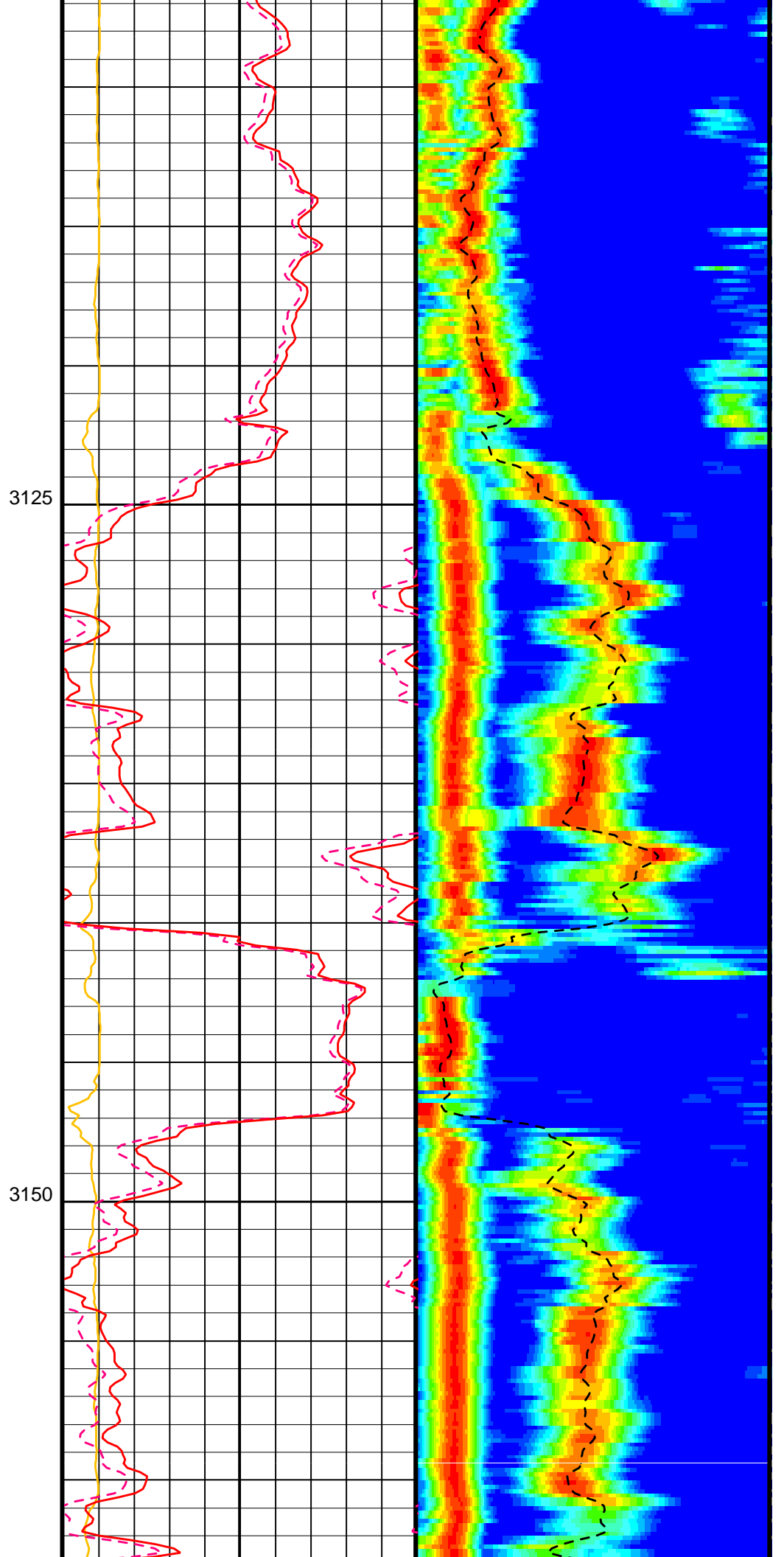
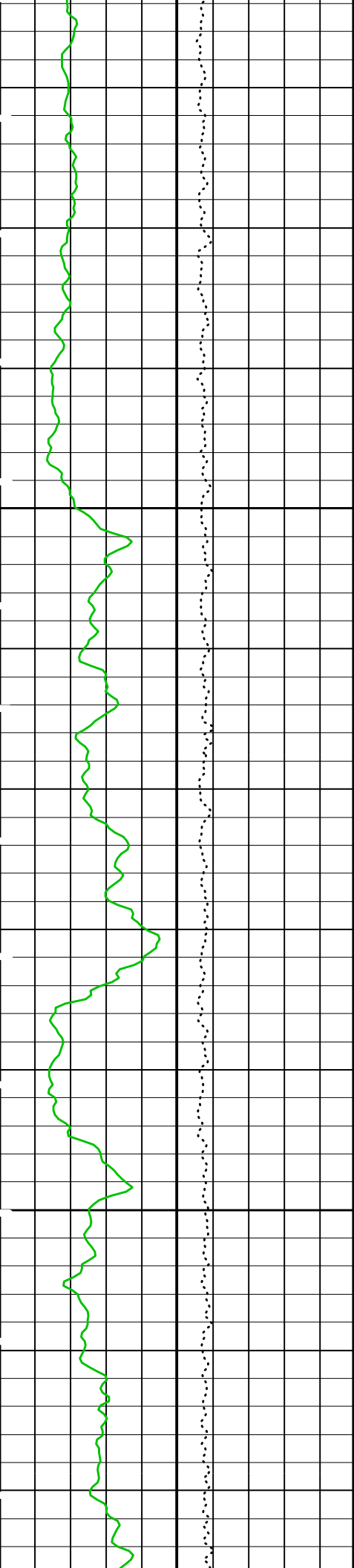
OP System Version: 9C2-303  
MCM

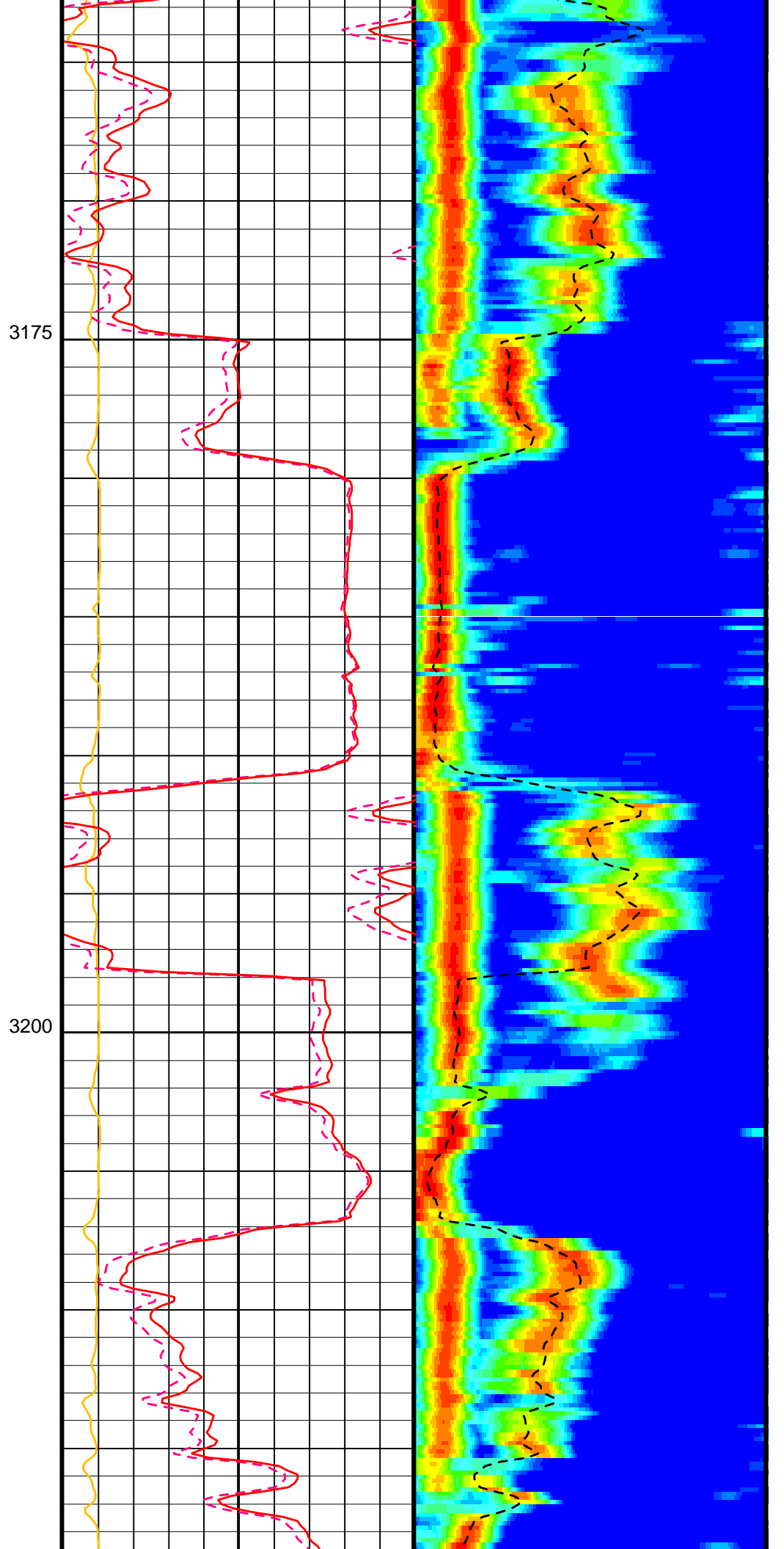
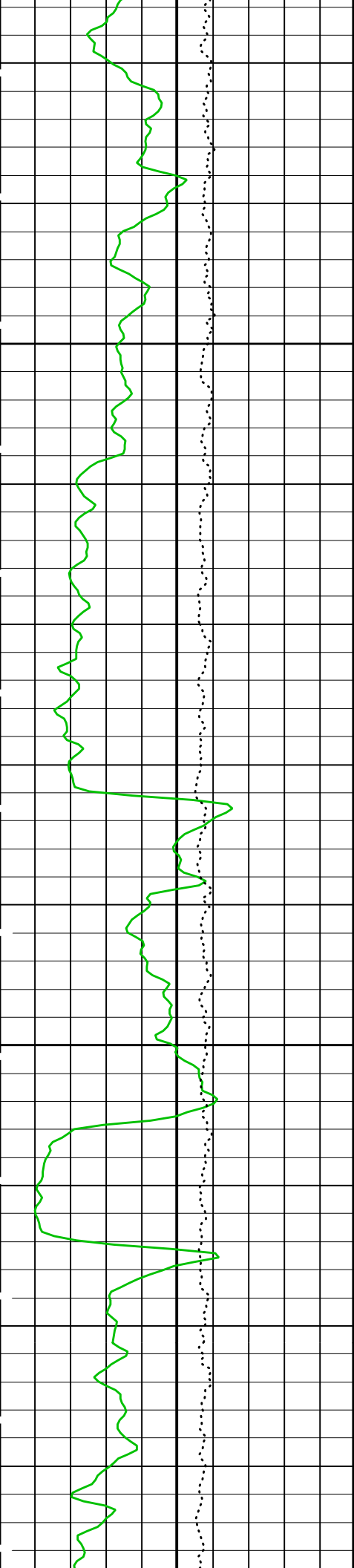
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DTA-A	9C2-303	DSST-B	9C2-303
DTC-H	9C2-303		

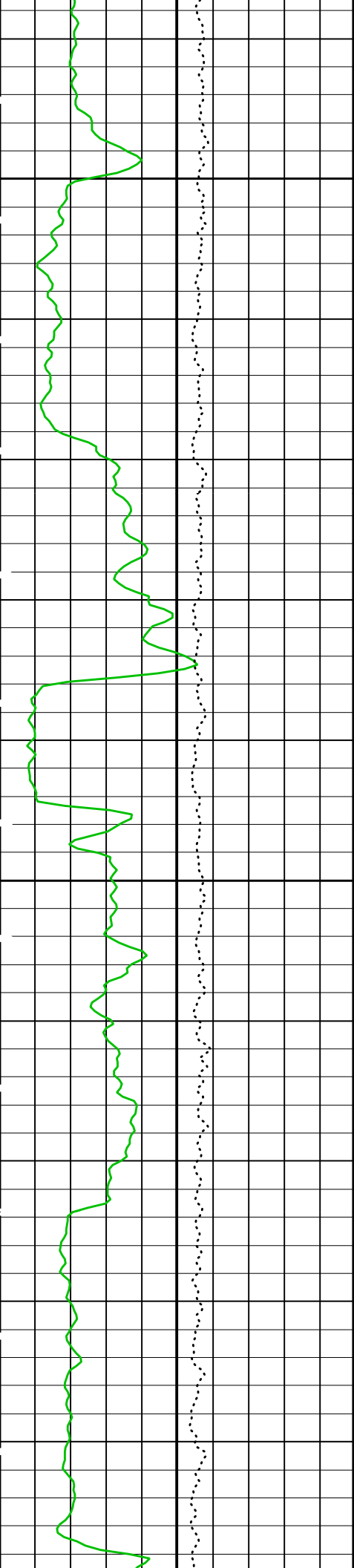
PIP SUMMARY





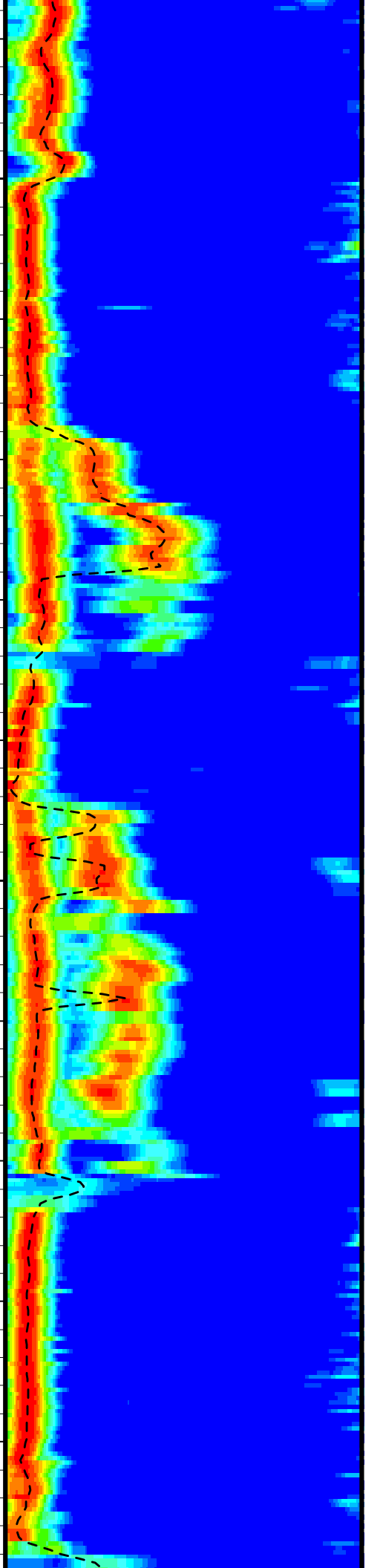
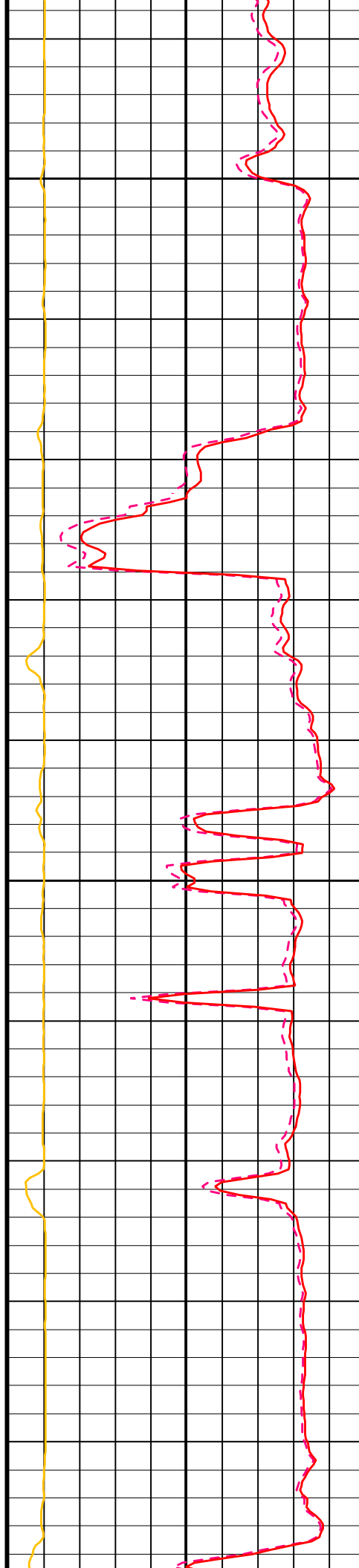


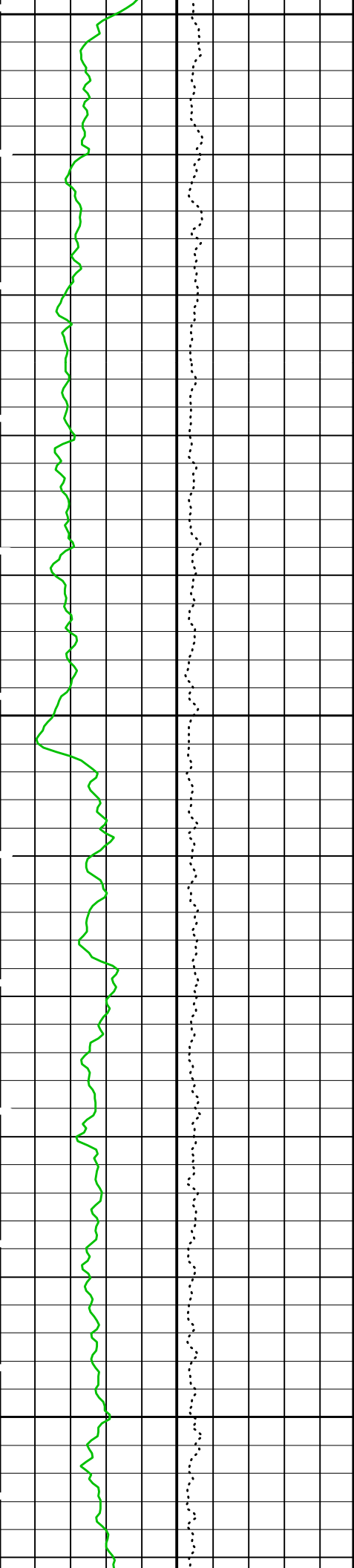




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3250

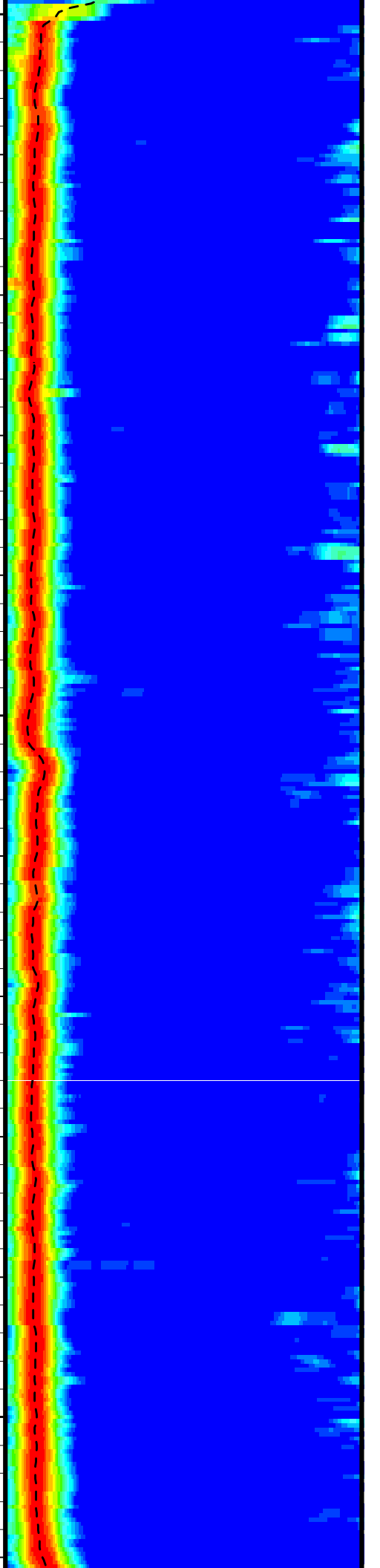
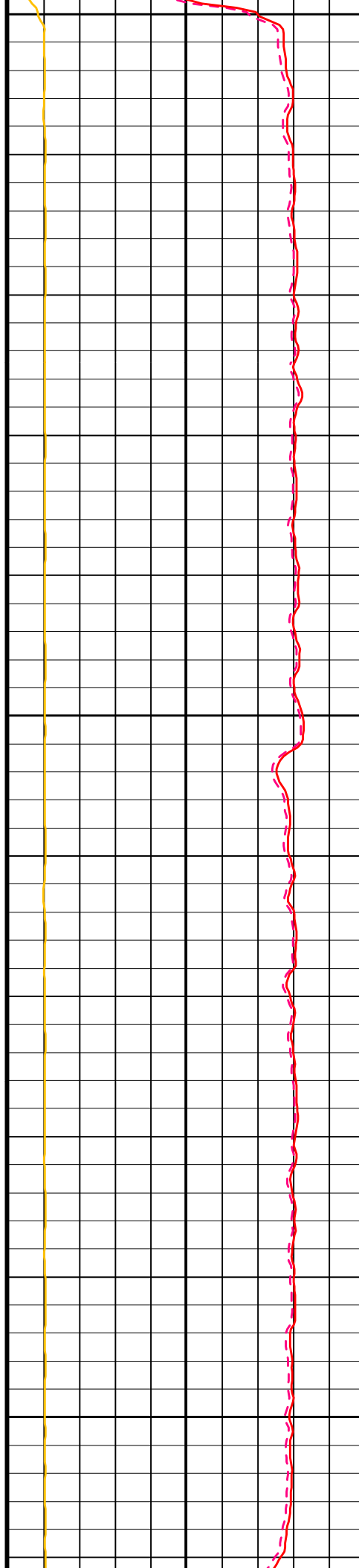




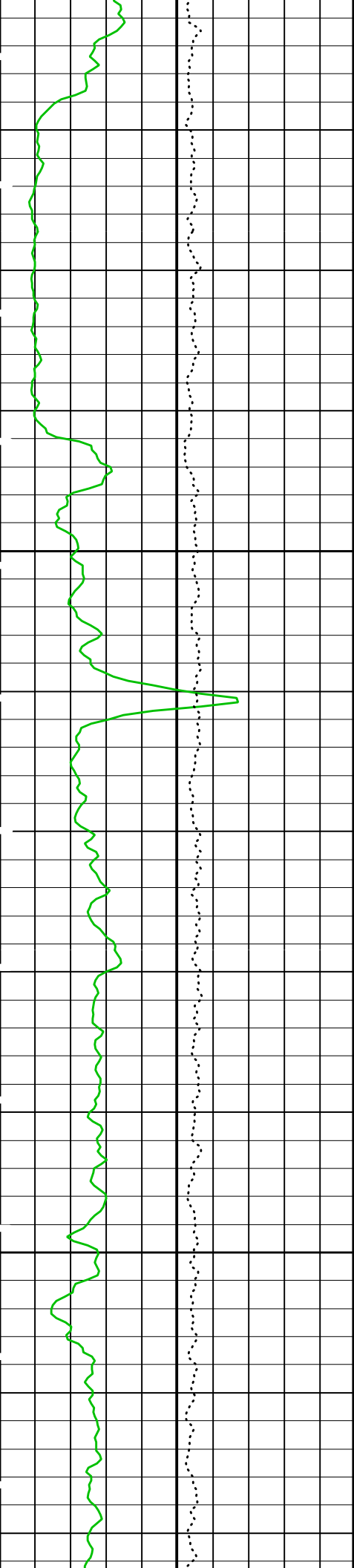
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3325

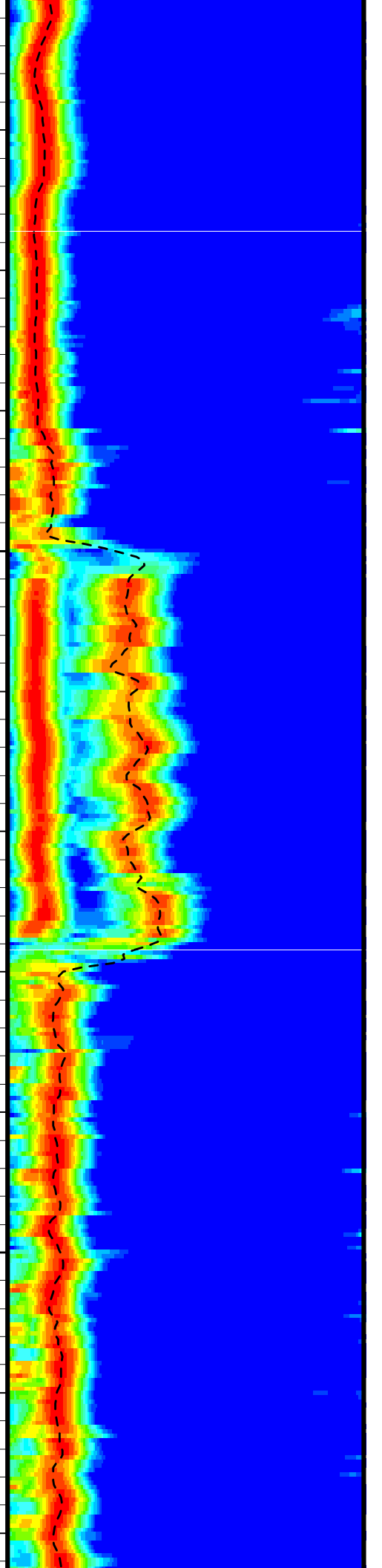
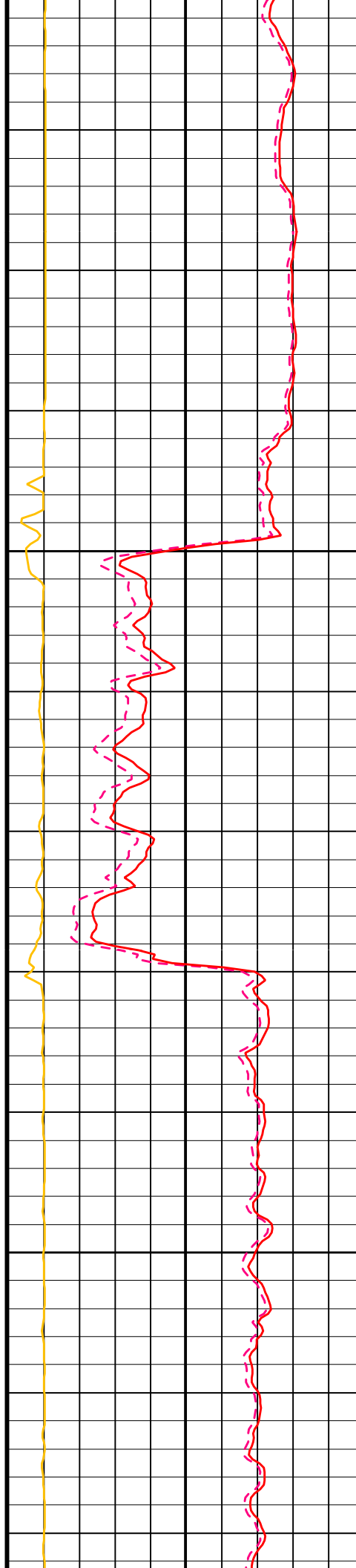


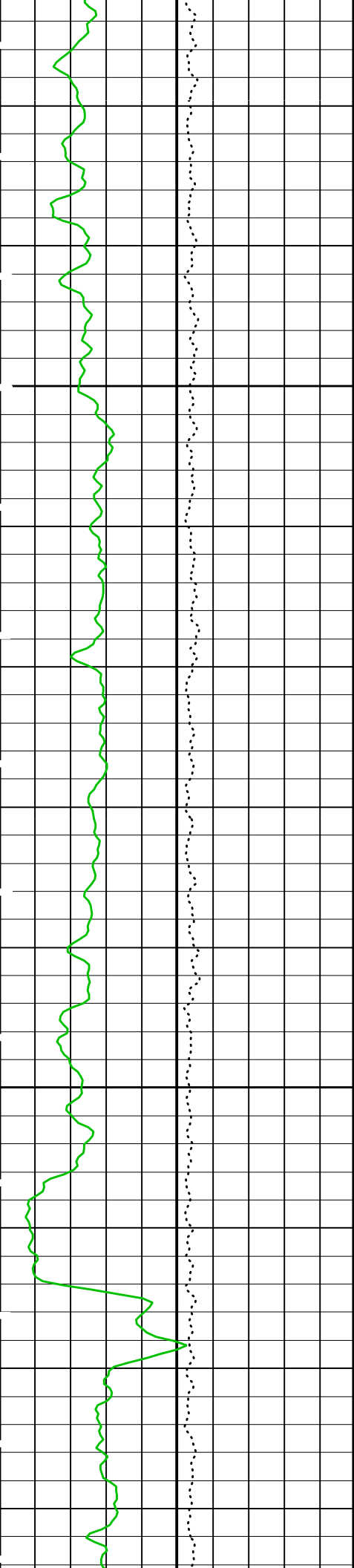




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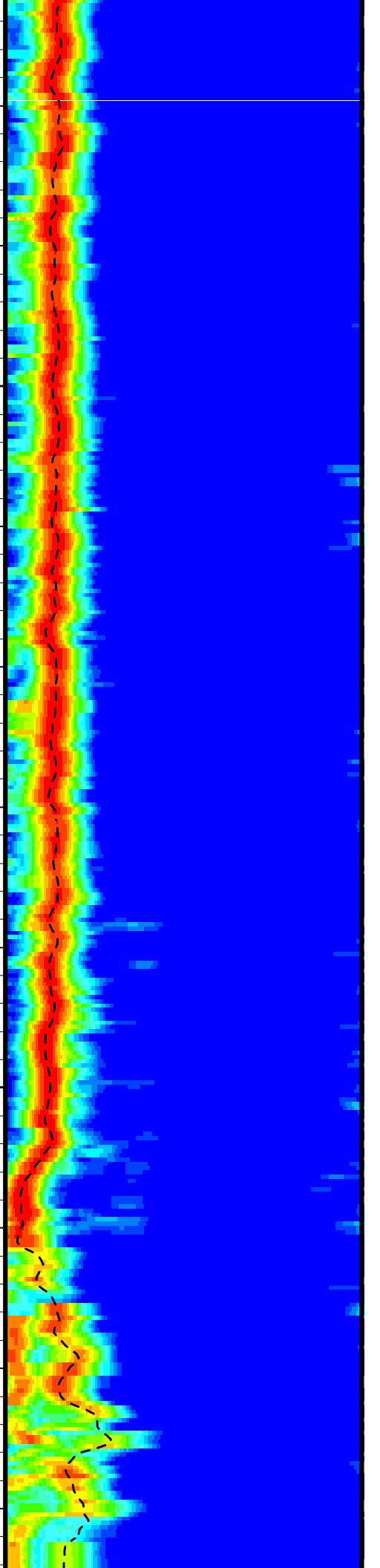
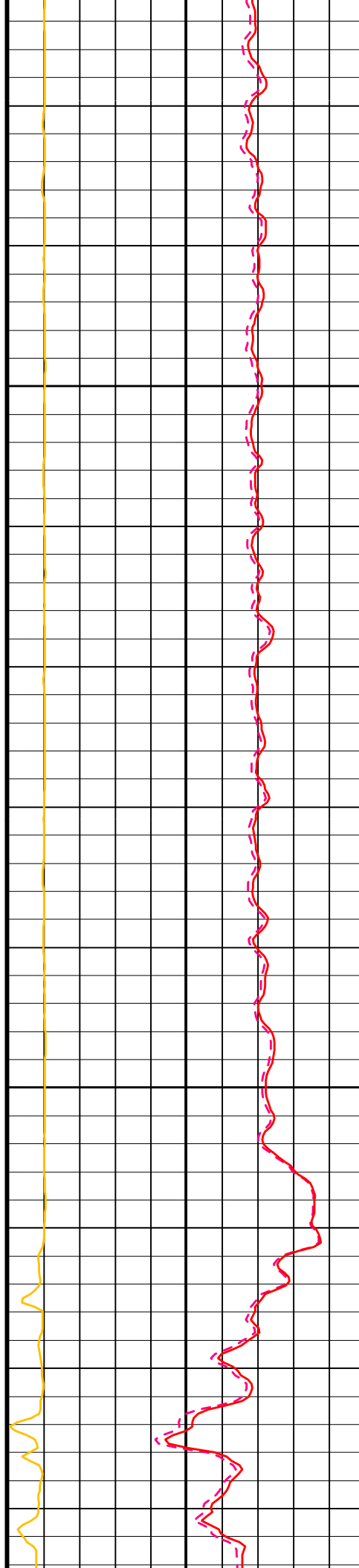
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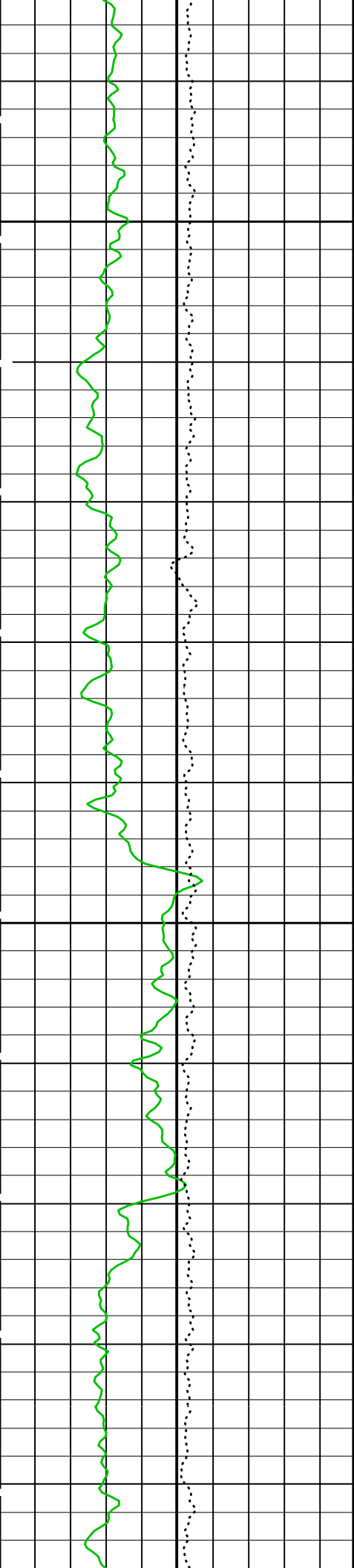




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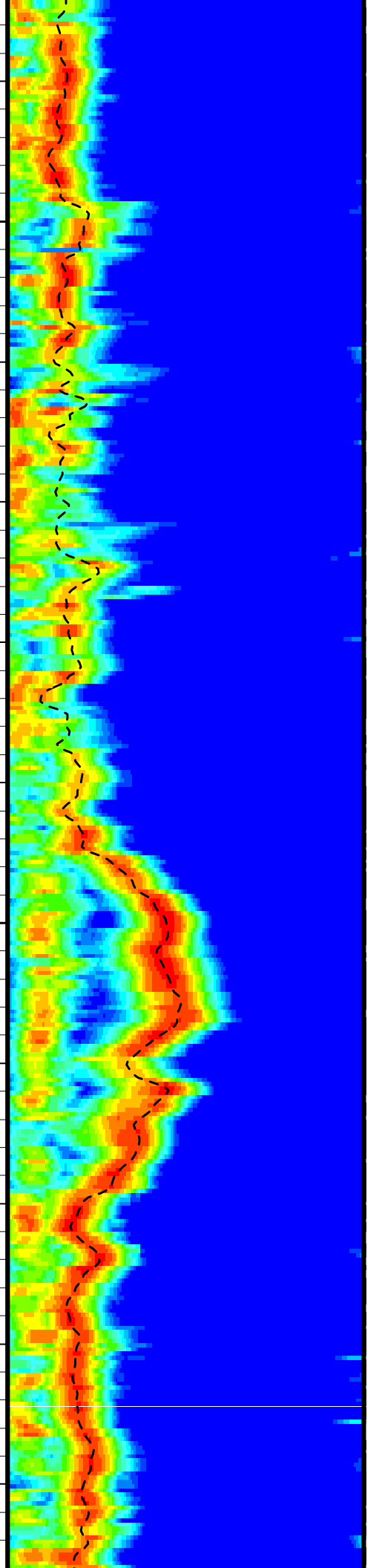
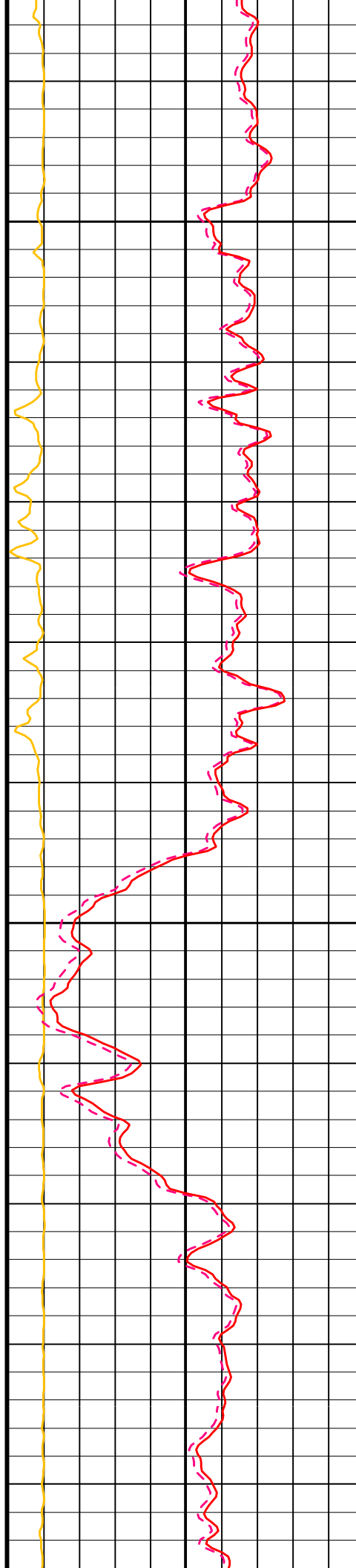
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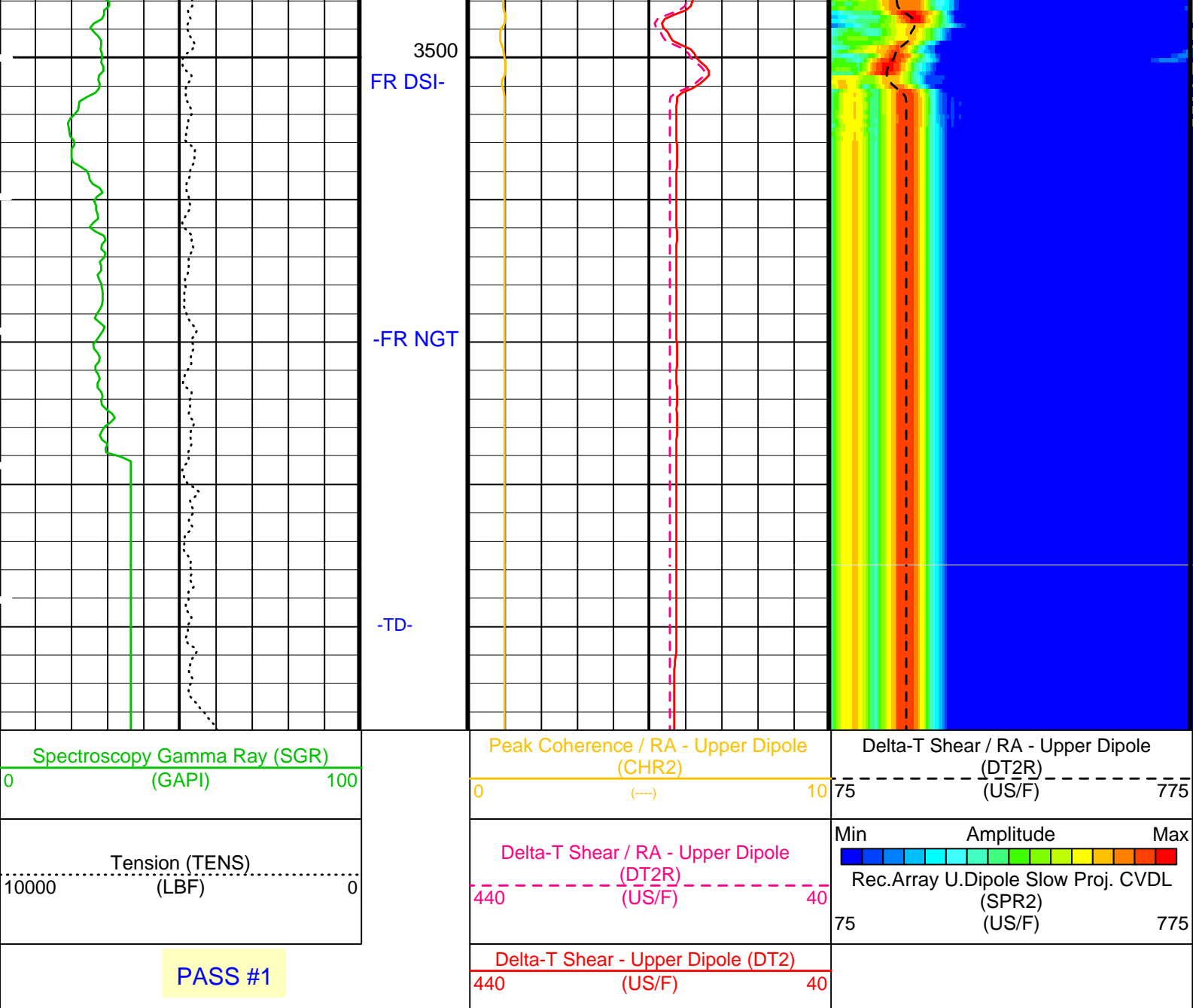




3450

3475





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
BS	Bit Size	9.875	IN
CBAR	Constant Barite	1	
CGMI	Spectro Computed Gamma Ray Minimum	0	GAPI
CGSH	Spectro Computed Gamma Ray Shale	100	GAPI
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DFD	Drilling Fluid Density	1.10	G/C3
DLCS	Label Compressional Source - Dipole Shear	USE	
DO	Depth Offset for Playback	2.0	M
DSHL	Label Slowness Lower Limit - Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	775	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCS Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	480	
KMIN	Potassium Minimum	0	
KSHA	Potassium Shale	0.02	
NFO	NGT Filtering Option	KALMAN	
PMUD	Potassium Mud	0	%
PP	Playback Processing	NORMAL	
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
SAM2	DSST Sonic Acquisition Mode 2 - Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SBO2	STC Search Band Offset - Upper Dipole	3000	US
SBW2	STC Search Bandwidth - Upper Dipole	8000	US
SFC2	STC Formation Character - Upper Dipole	SELECTABLE	
SFM2	STC Filter - Upper Dipole	B1-3K	
SGMI	Spectro Gamma Ray Minimum	0	GAPI
SGSH	Spectro Gamma Ray Shale	100	GAPI
SLL2	STC Slowness Lower Limit - Upper Dipole	75	US/F
SST2	STC Slowness Step - Upper Dipole	4	US/F
SSW2	STC Source Waveform - Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit - Upper Dipole	775	US/F
SWD2	STC Slowness Width - Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill - Upper Dipole	0	US
TLL2	STC Time Lower Limit - Upper Dipole	600	US
TMIN	Thorium Minimum	0	PPM
TSHA	Thorium Shale	12	PPM
TST2	STC Time Step - Upper Dipole	200	US
TUL2	STC Time Upper Limit - Upper Dipole	15525	US
TWD2	STC Time Width - Upper Dipole	2000	US
TWI2	STC Integration Time Window - Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UMIN	Uranium Minimum	0	PPM
USHA	Uranium Shale	3	PPM
UTXG	Upper Dipole Transmitter Geometry	162	IN

Format: DSST\_UPPER\_DIPOLE\_VDL\_COLOR      Vertical Scale: 1:200      Graphics File Created: 25-Jul-2001 20:54

## OP System Version: 9C2-303

MCM

MEST-B	9C2-303	NGT-C	9C2-303
DTA-A	9C2-303	DSST-B	9C2-303
DTC-H	9C2-303		

## Input DLIS Files

DEFAULT	FMS_NGS_DSI_014LUP	FN:23	PRODUCER	24-Jul-2001 00:03	3521.7 M	3023.2 M
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## Output DLIS Files

DEFAULT	FMS_NGS_DSI_028PUP	FN:46	PRODUCER	25-Jul-2001 20:54		
REDUCE	FMS_NGS_DSI_028PUP	FN:47	PRODUCER	25-Jul-2001 20:54		

## Input DLIS Files

DEFAULT	FMS_NGS_DSI_015LUP	FN:25	PRODUCER	24-Jul-2001 02:21	3521.7 M	2794.1 M
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## Output DLIS Files

DEFAULT	FMS_NGS_DSI_034PUP	FN:58	PRODUCER	25-Jul-2001 21:35	3523.6 M	2796.5 M
REDUCE	FMS_NGS_DSI_034PUP	FN:59	PRODUCER	25-Jul-2001 21:35	3523.6 M	2796.5 M

## OP System Version: 9C2-303

MCM

MEST-B	9C2-303	NGT-C	9C2-303
DTA-A	9C2-303	DSST-B	9C2-303
DTC-H	9C2-303		

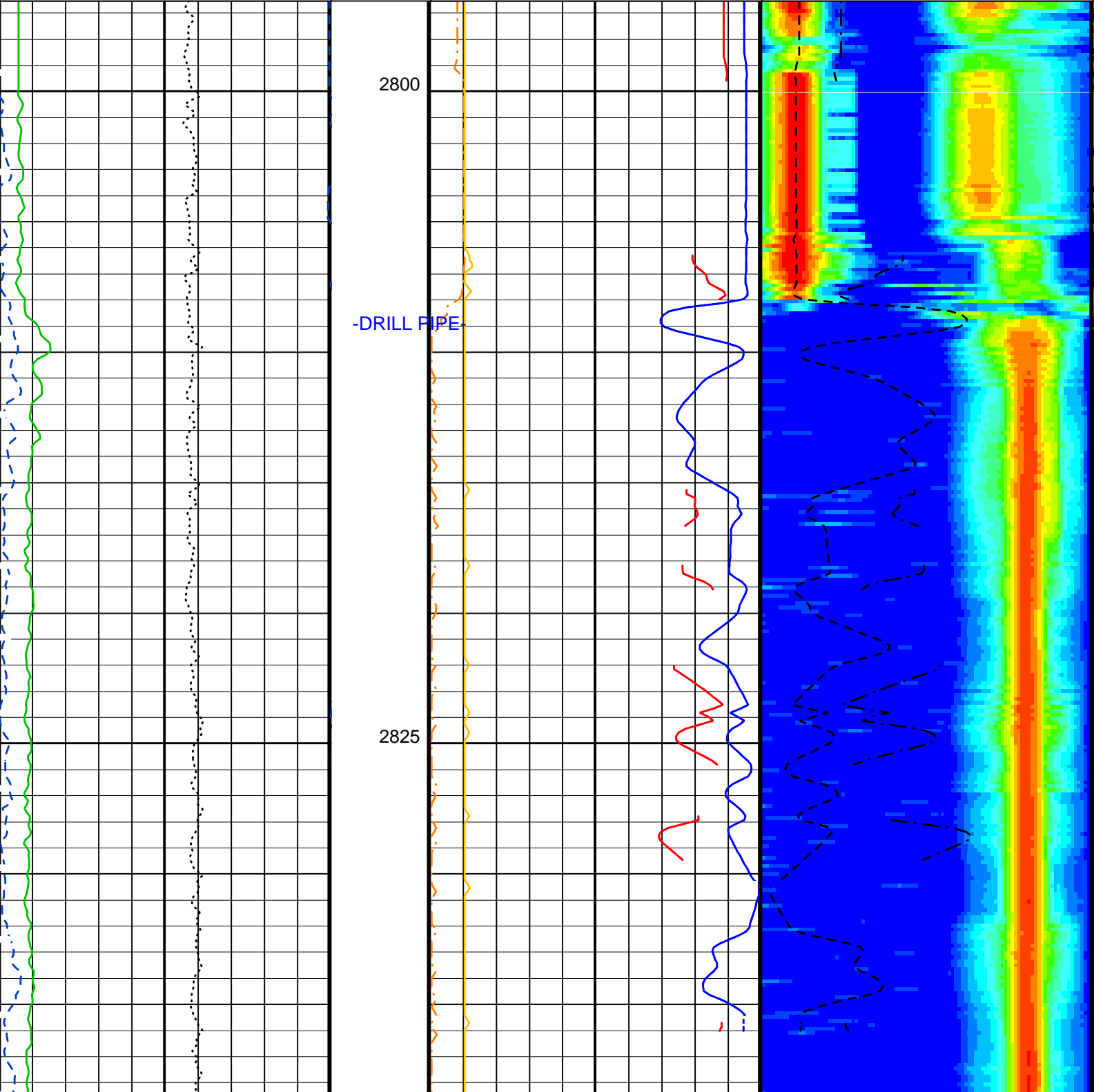
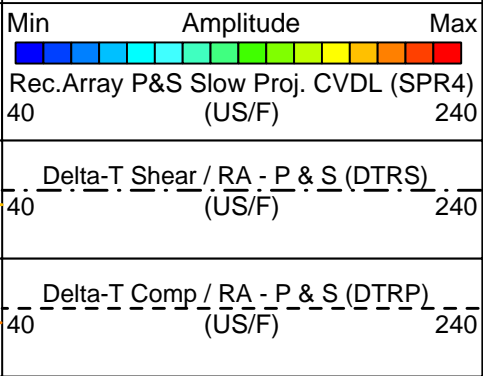
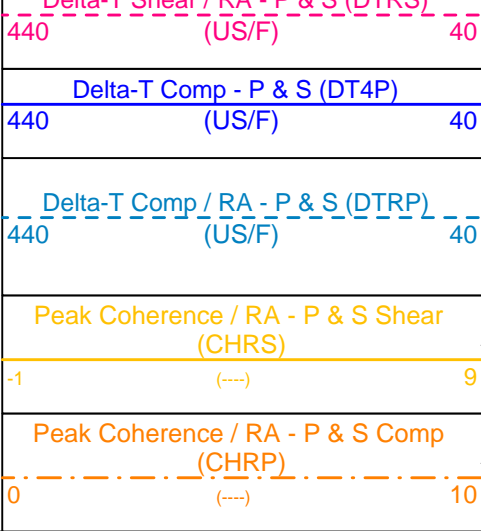
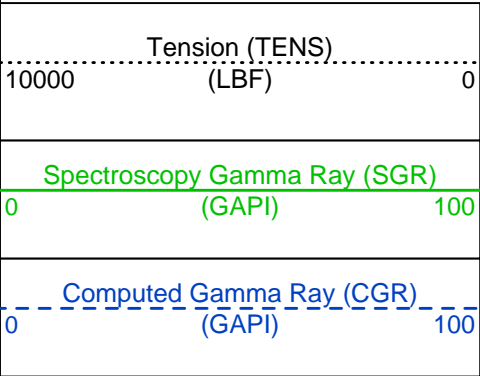
## PIP SUMMARY

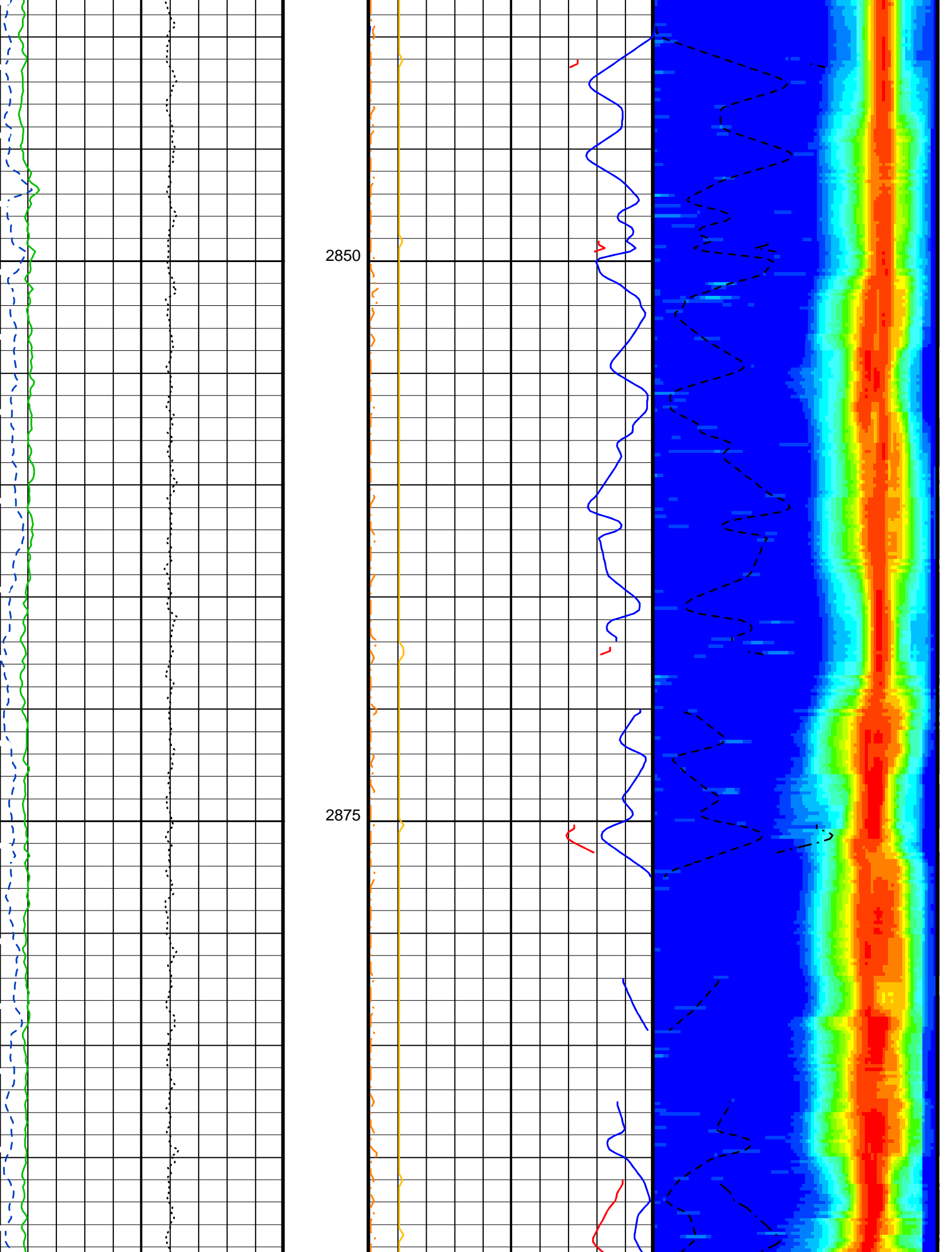
 Time Mark Every 60 S

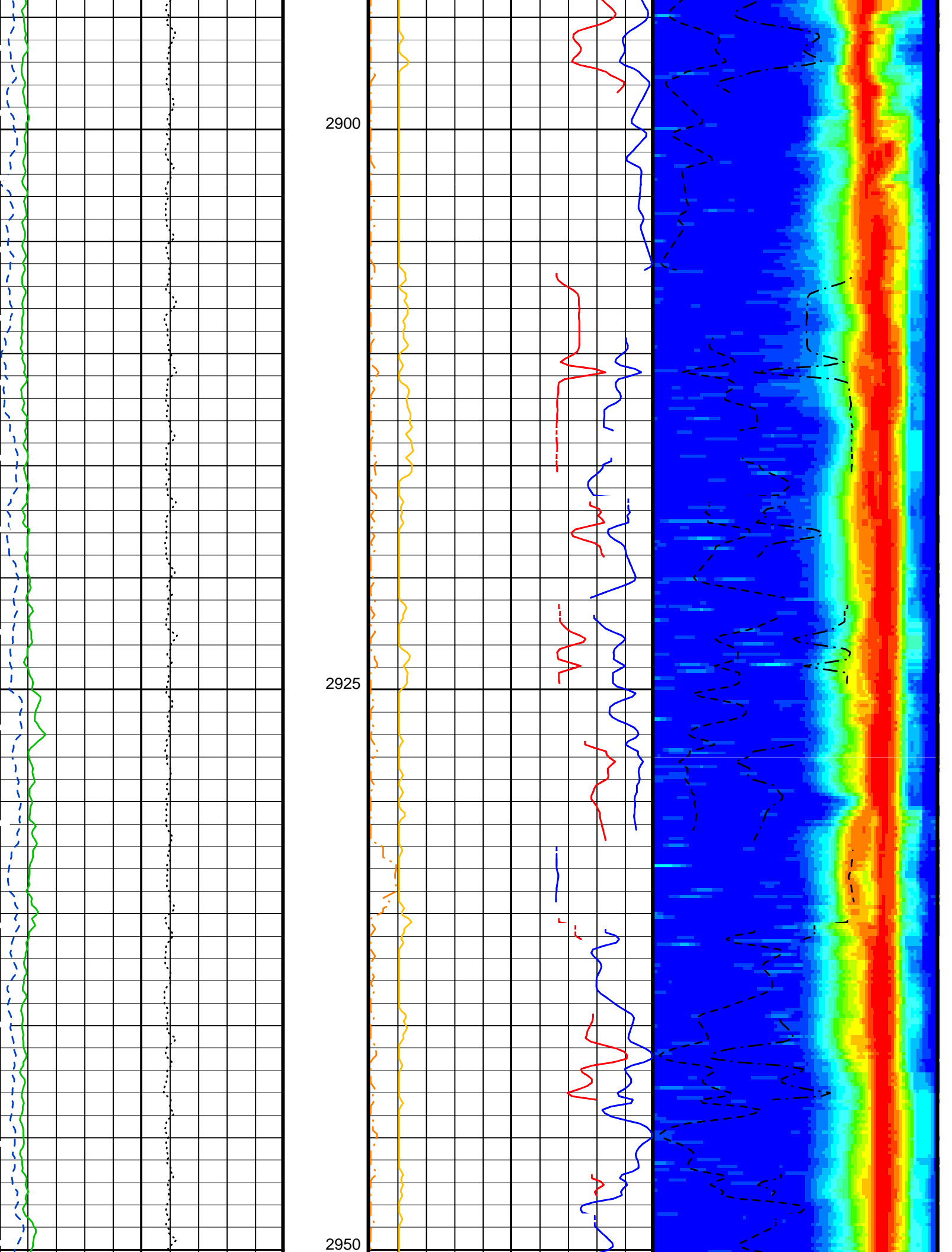
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40

Delta-T Shear / P & S (DTPS)

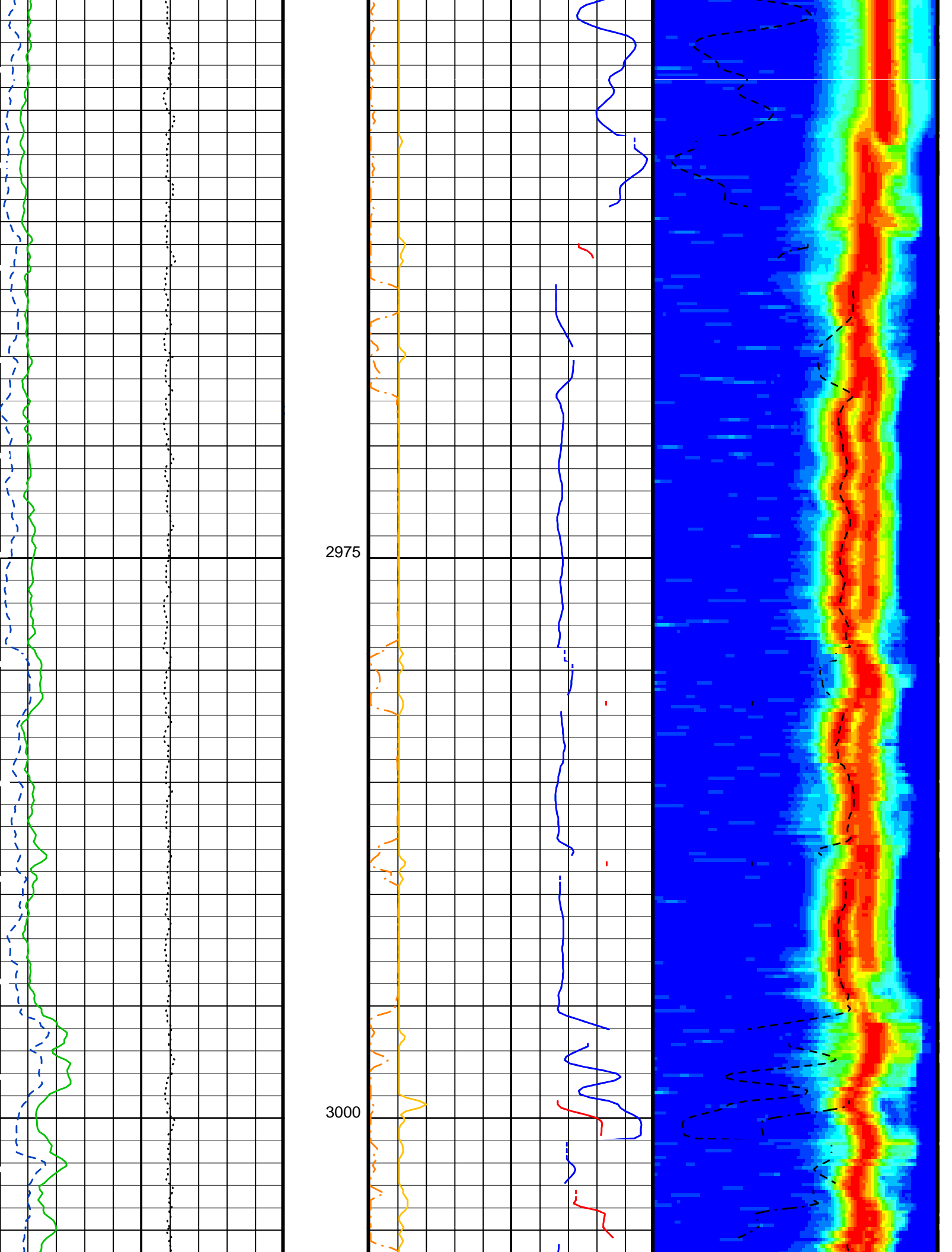
PASS #2

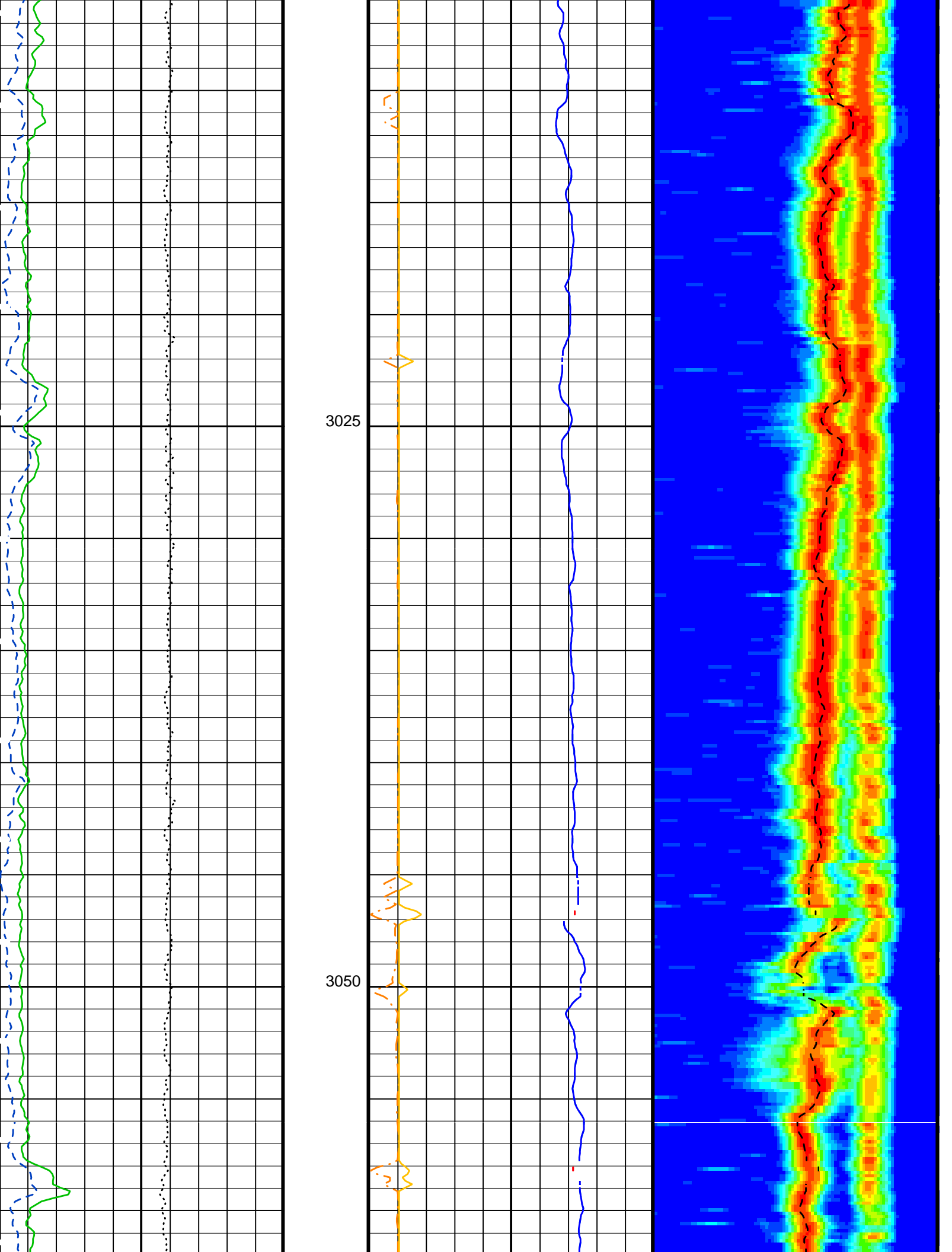


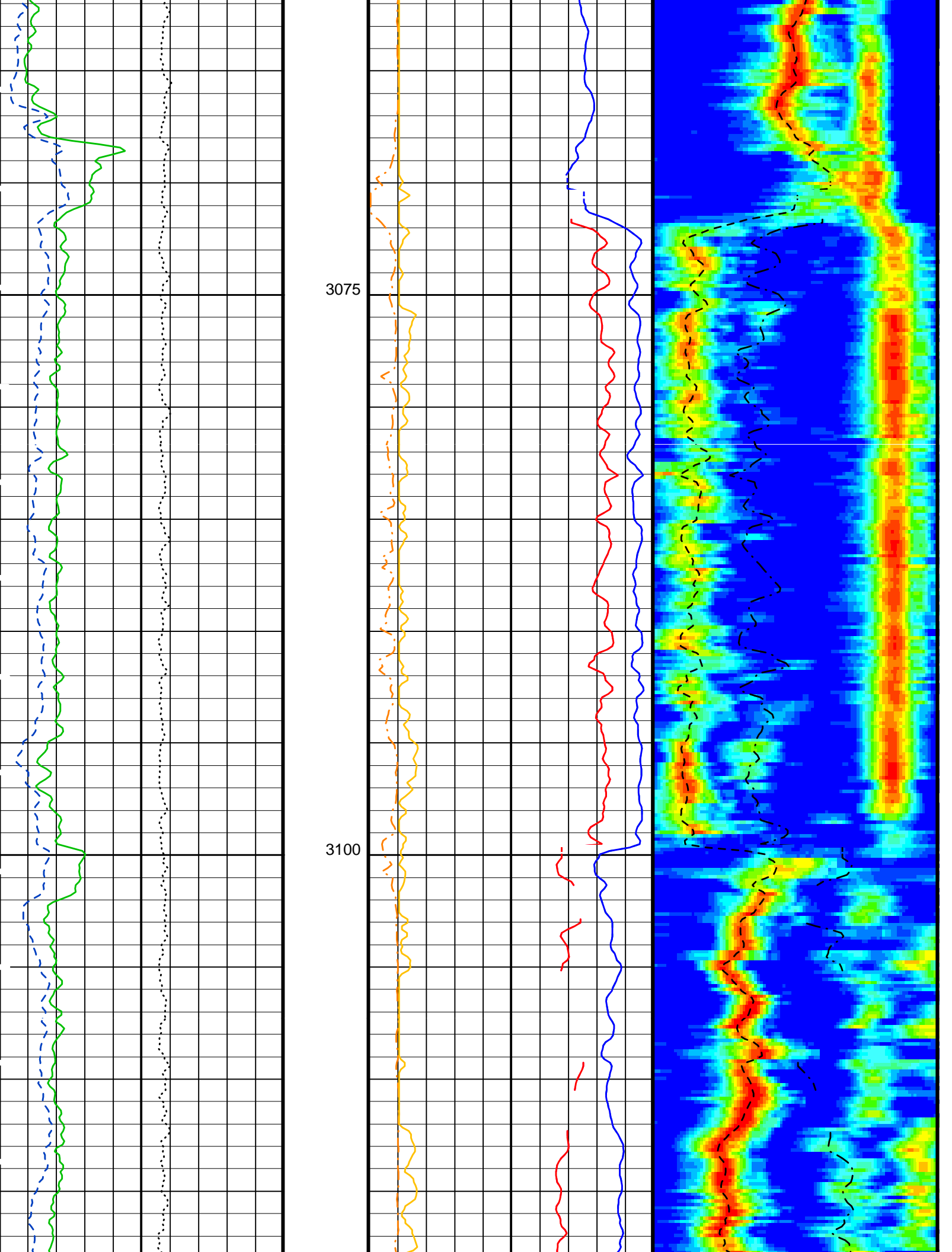


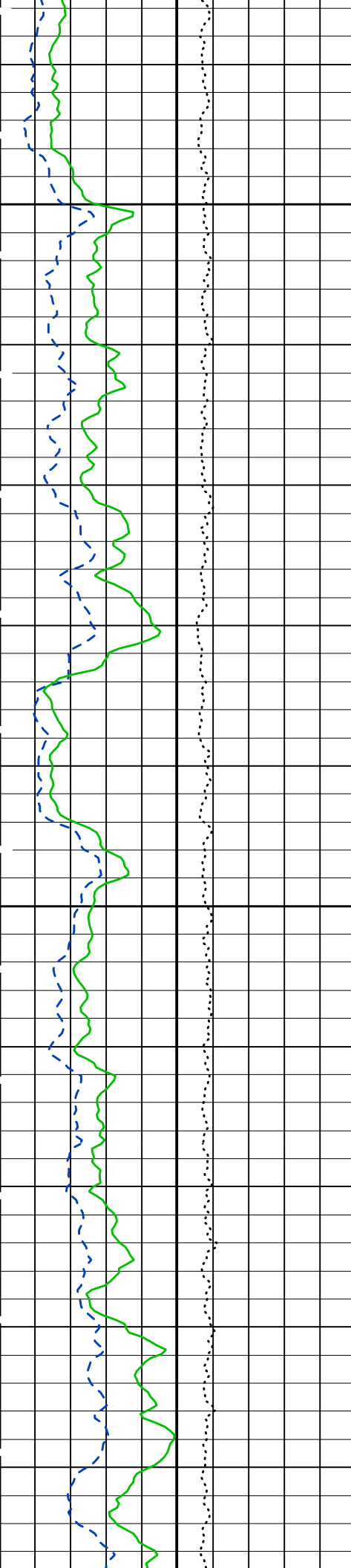






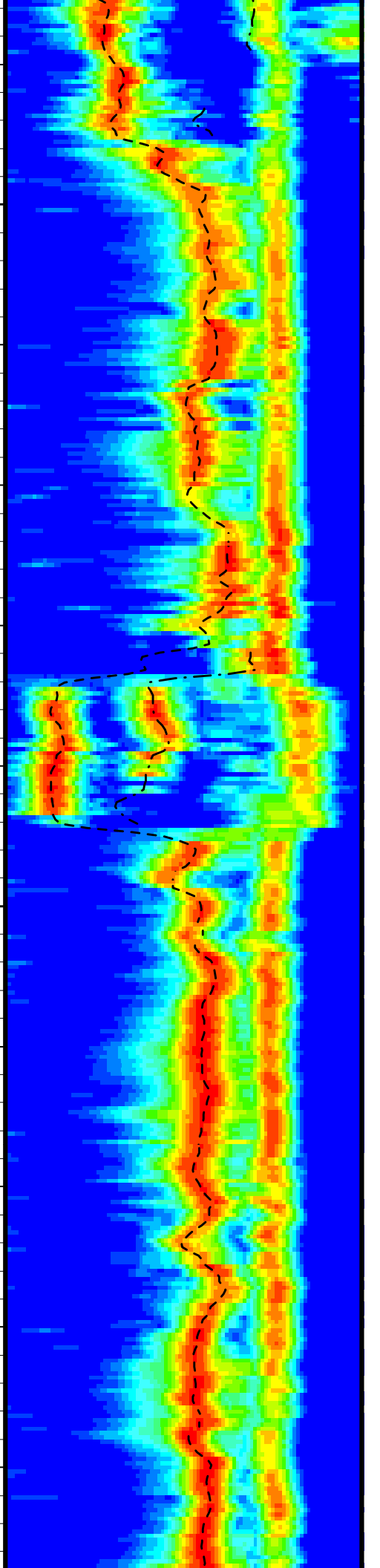
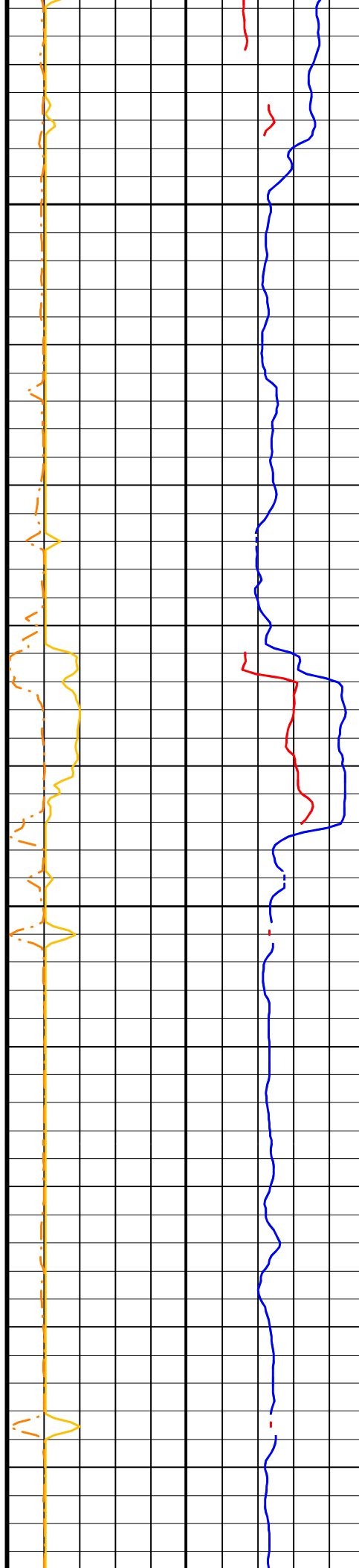


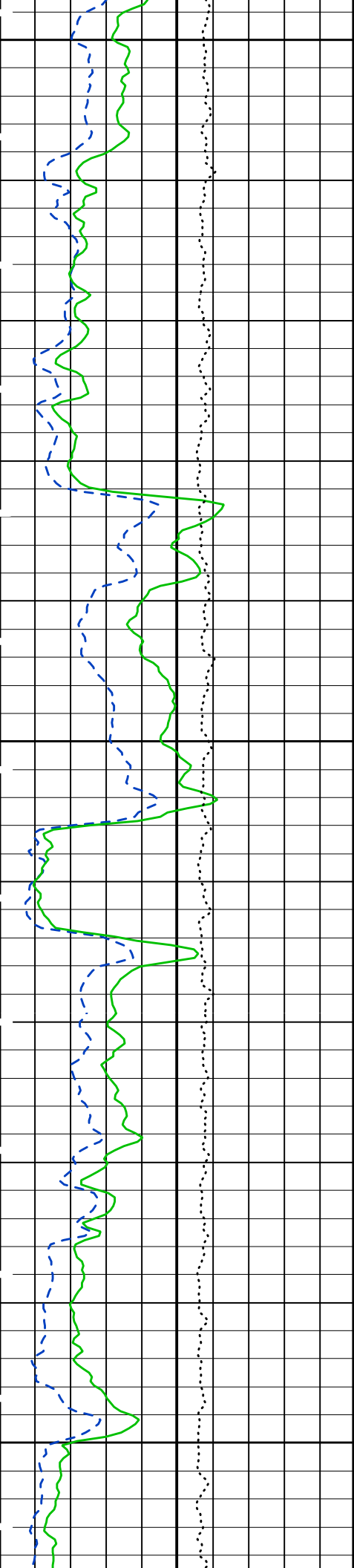




3125

3150

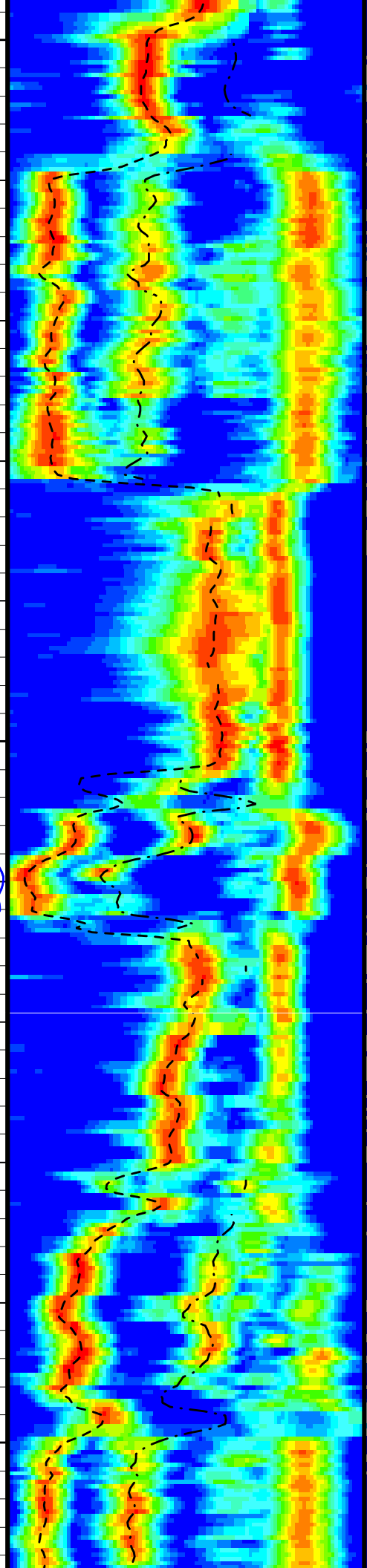
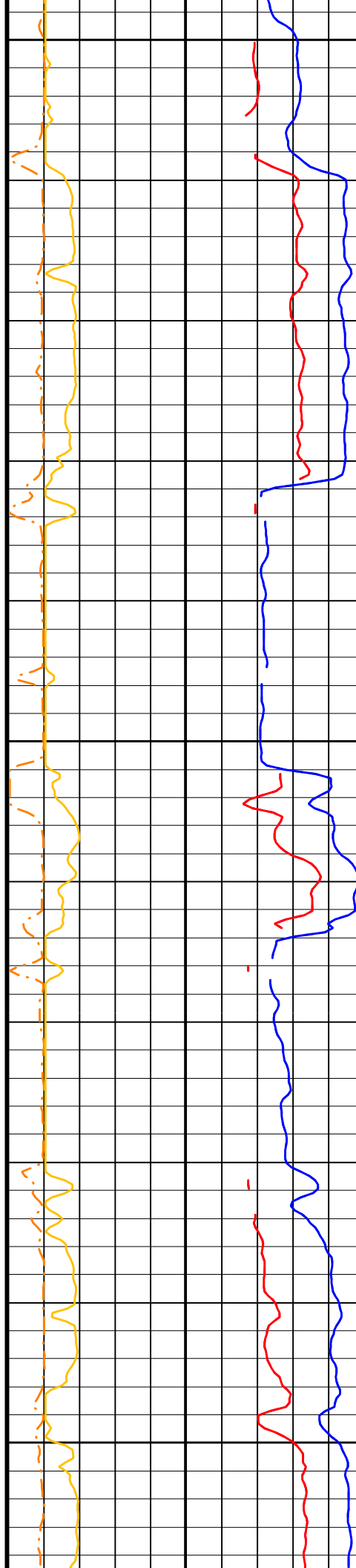


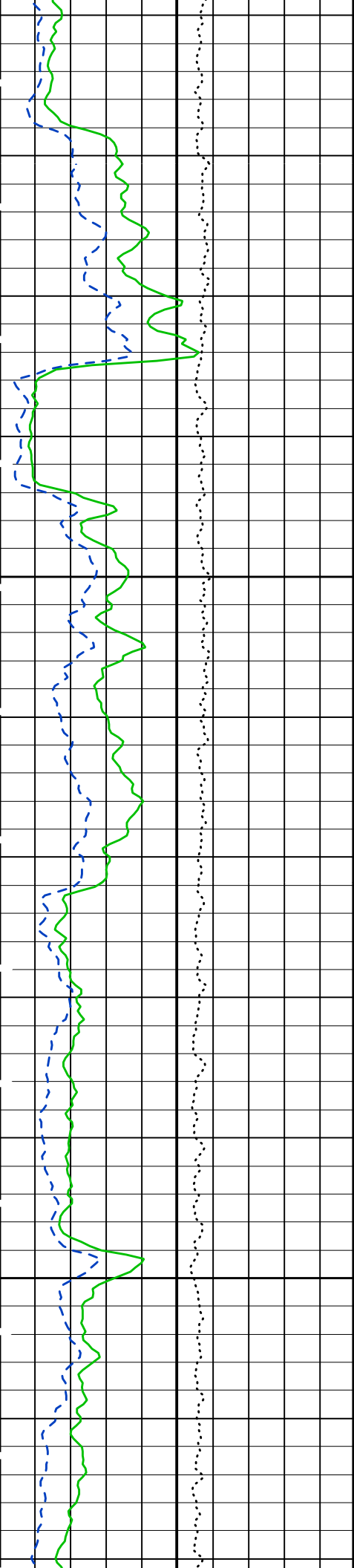


3175

3200

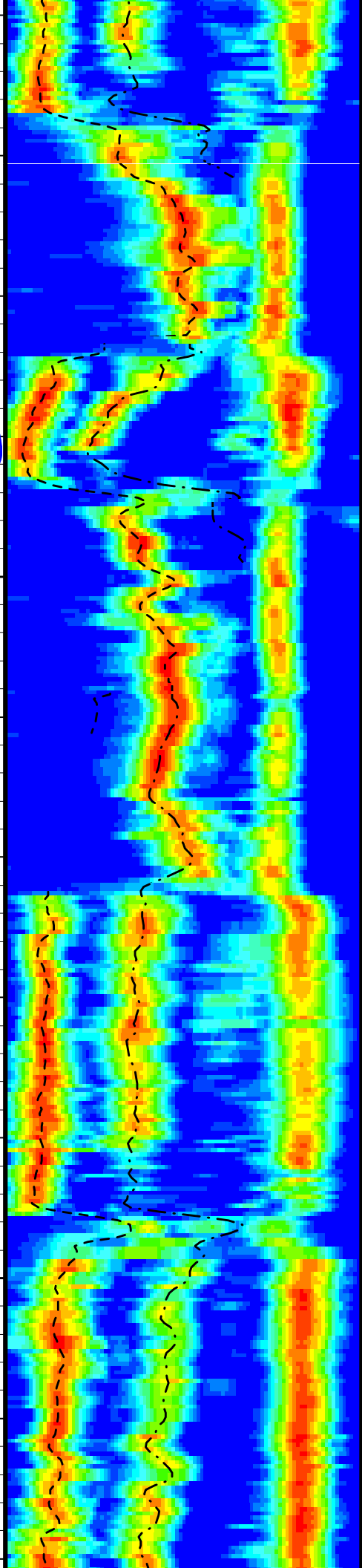
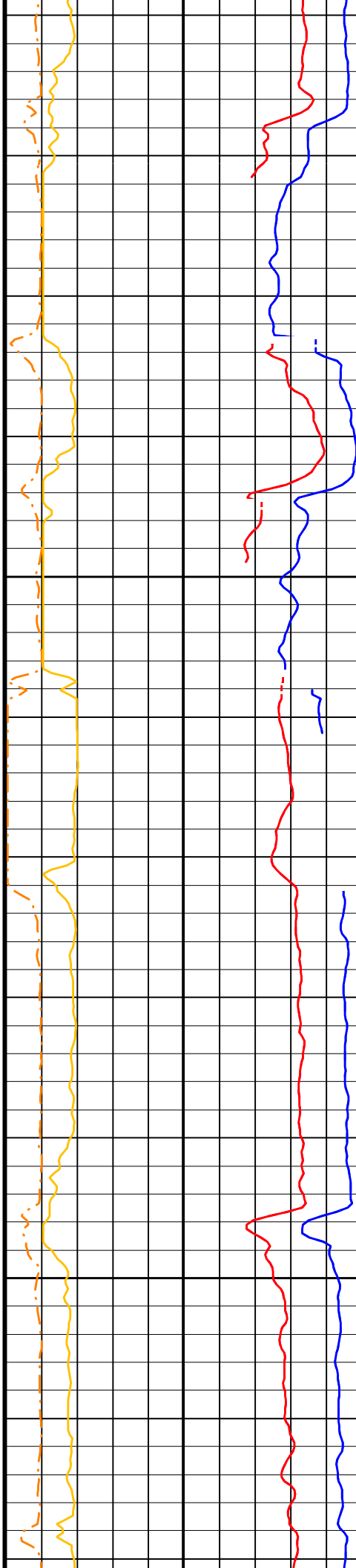
3225

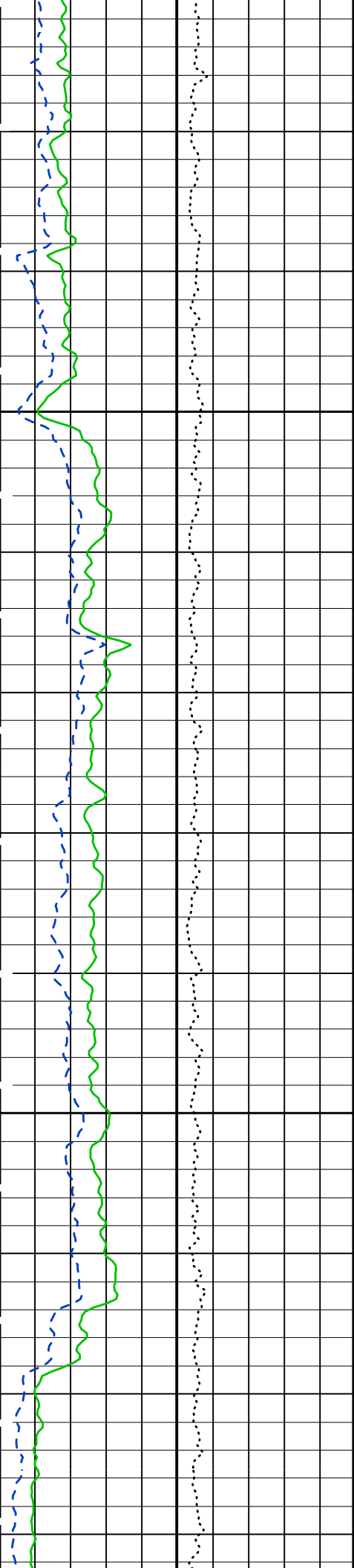




3250

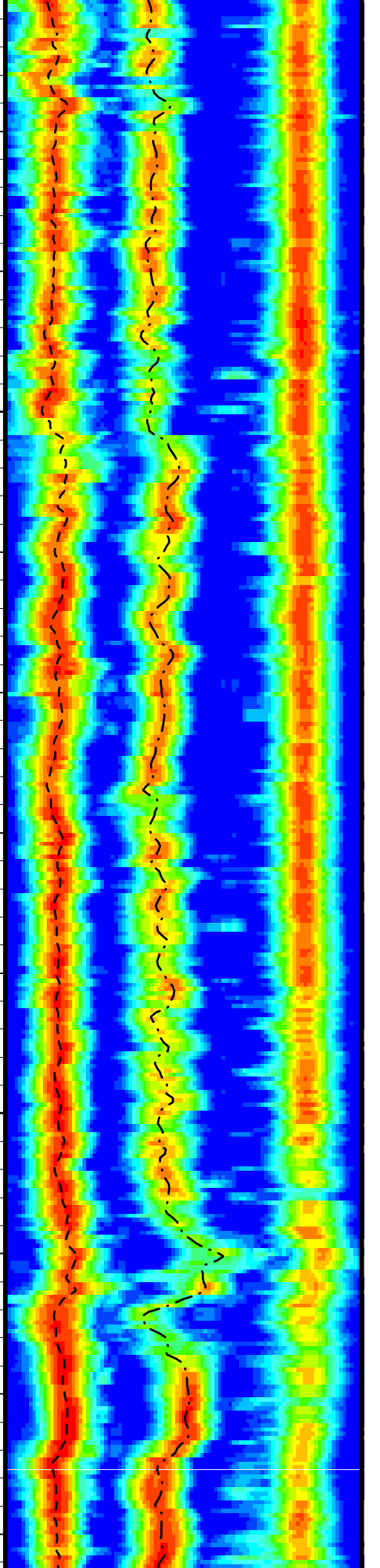
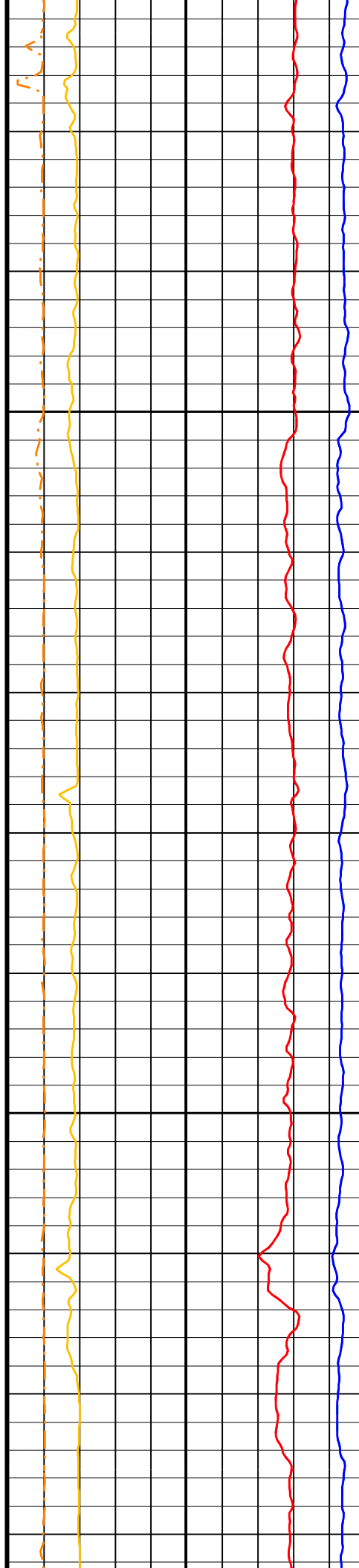
3275

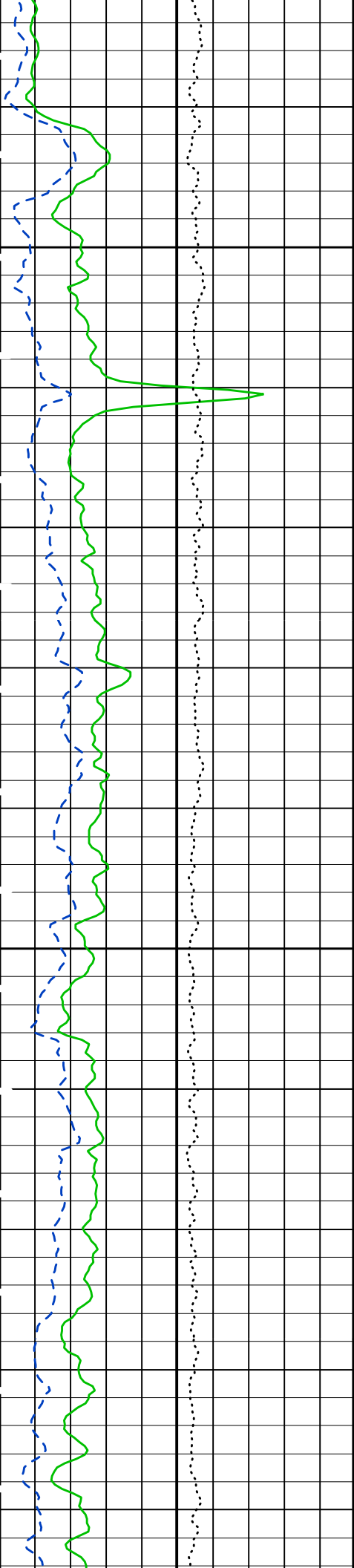




3300

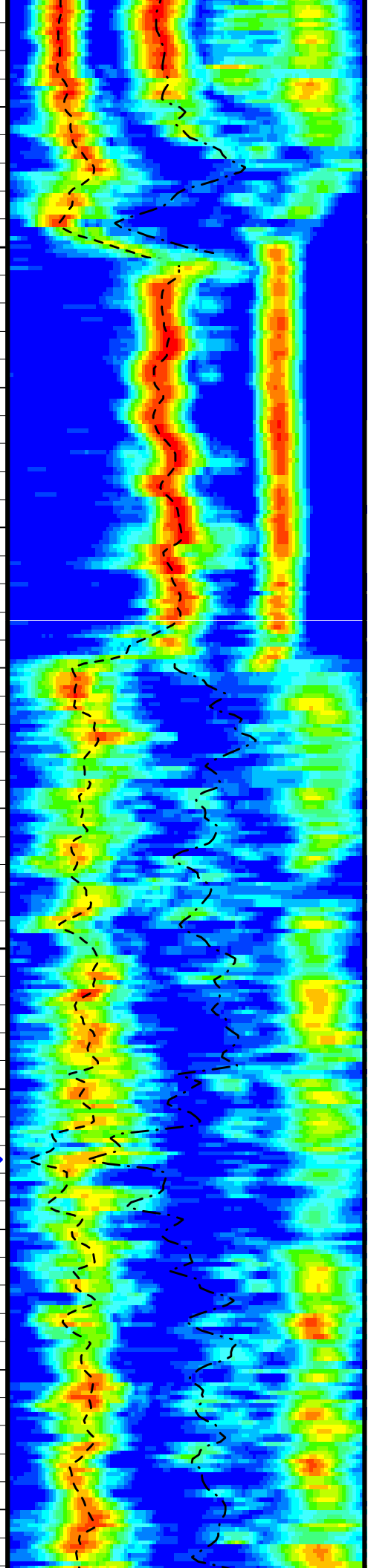
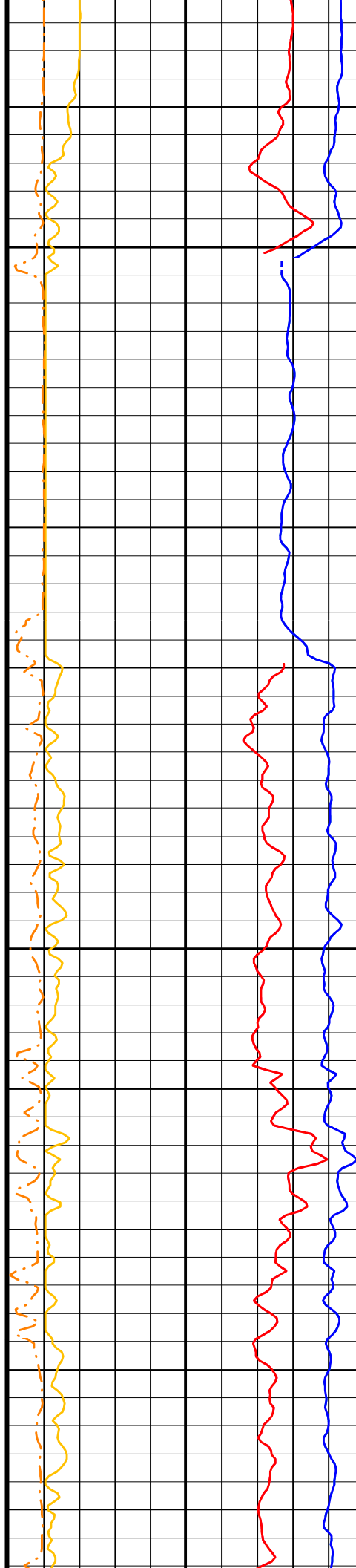
3325



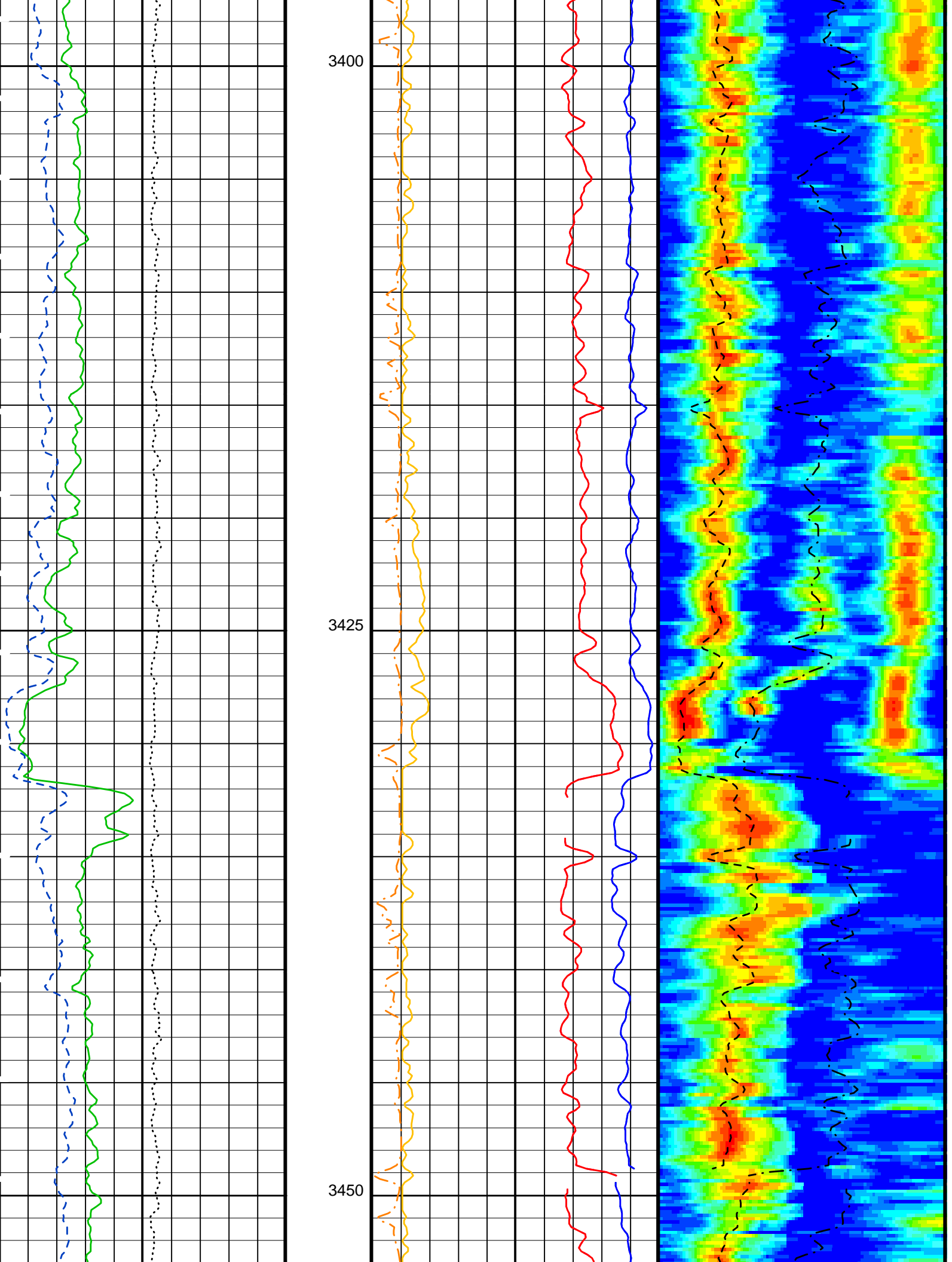


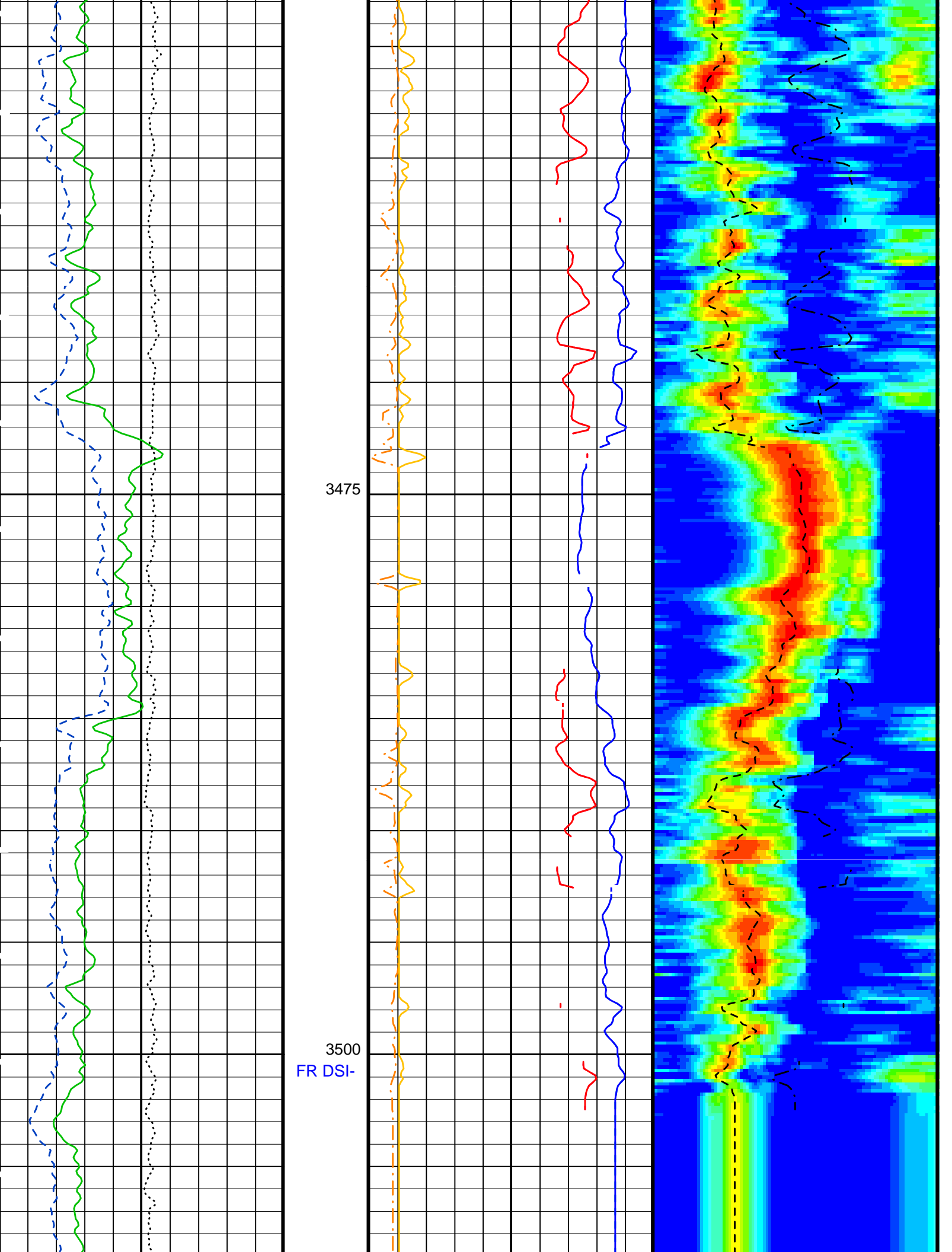
3350

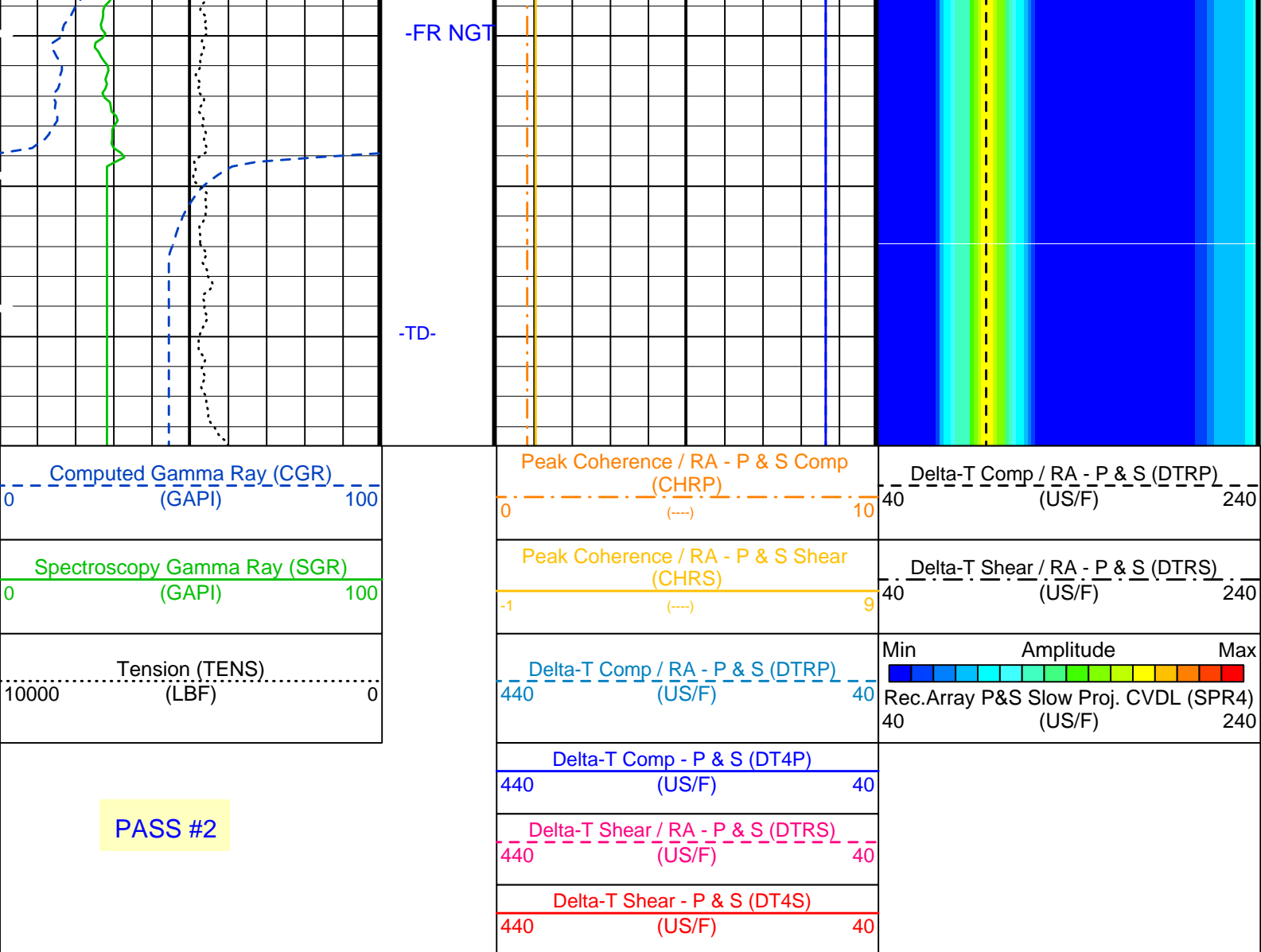
3375











## PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
BHS	Borehole Status	OPEN
BS	Bit Size	9.875 IN
CASF	Label Casing Function - Monopole P&S	50
CBAR	Constant Barite	1
CGMI	Spectro Computed Gamma Ray Minimum	0 GAPI
CGSH	Spectro Computed Gamma Ray Shale	100 GAPI
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	40 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	190 US/F
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DFD	Drilling Fluid Density	1.10 G/C3
DO	Depth Offset for Playback	2.0 M
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTF	Delta-T Fluid	189 US/F
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	480
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR
KMIN	Potassium Minimum	0
KSHA	Potassium Shale	0.02
LFC	Label Formation Character - Monopole P&S	DYNAMIC
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NFO	NGT Filtering Option	KALMAN
PMUD	Potassium Mud	0 %
PP	Playback Processing	NORMAL
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 - High Frequency Monopole Mode for P&S		
	MFD_EVEN		
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert		
	OFF		
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM4	STC Filter - Monopole P&S	B3-12K	
SGMI	Spectro Gamma Ray Minimum	0	GAPI
SGSH	Spectro Gamma Ray Shale	100	GAPI
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	190	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW4	STC Source Waveform - Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit - Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	240	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TMIN	Thorium Minimum	0	PPM
TSHA	Thorium Shale	12	PPM
TST4	STC Time Step - Monopole P&S	50	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UMIN	Uranium Minimum	0	PPM
USHA	Uranium Shale	3	PPM

Format: DSST\_P\_S\_VDL\_COLOR      Vertical Scale: 1:200      Graphics File Created: 25-Jul-2001 21:35

## OP System Version: 9C2-303

MCM

MEST-B	9C2-303	NGT-C	9C2-303
DTA-A	9C2-303	DSST-B	9C2-303
DTC-H	9C2-303		

## Input DLIS Files

DEFAULT	FMS_NGS_DSI_015LUP	FN:25	PRODUCER	24-Jul-2001 02:21	3521.7 M	2794.1 M
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## Output DLIS Files

DEFAULT	FMS_NGS_DSI_034PUP	FN:58	PRODUCER	25-Jul-2001 21:35		
REDUCE	FMS_NGS_DSI_034PUP	FN:59	PRODUCER	25-Jul-2001 21:35		

## Input DLIS Files

DEFAULT	FMS_NGS_DSI_014LUP	FN:23	PRODUCER	24-Jul-2001 00:03	3521.7 M	3023.2 M
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## Output DLIS Files

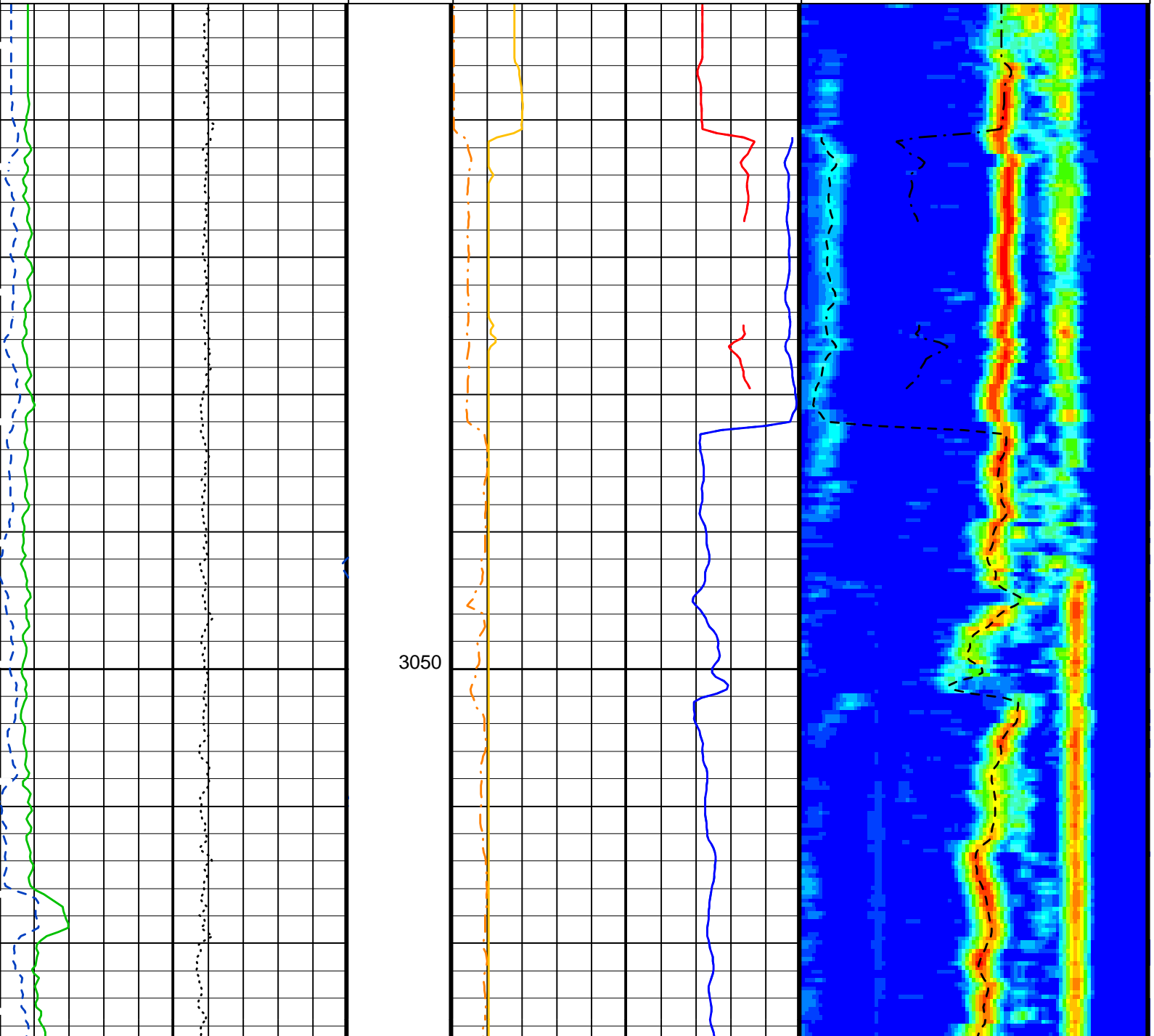
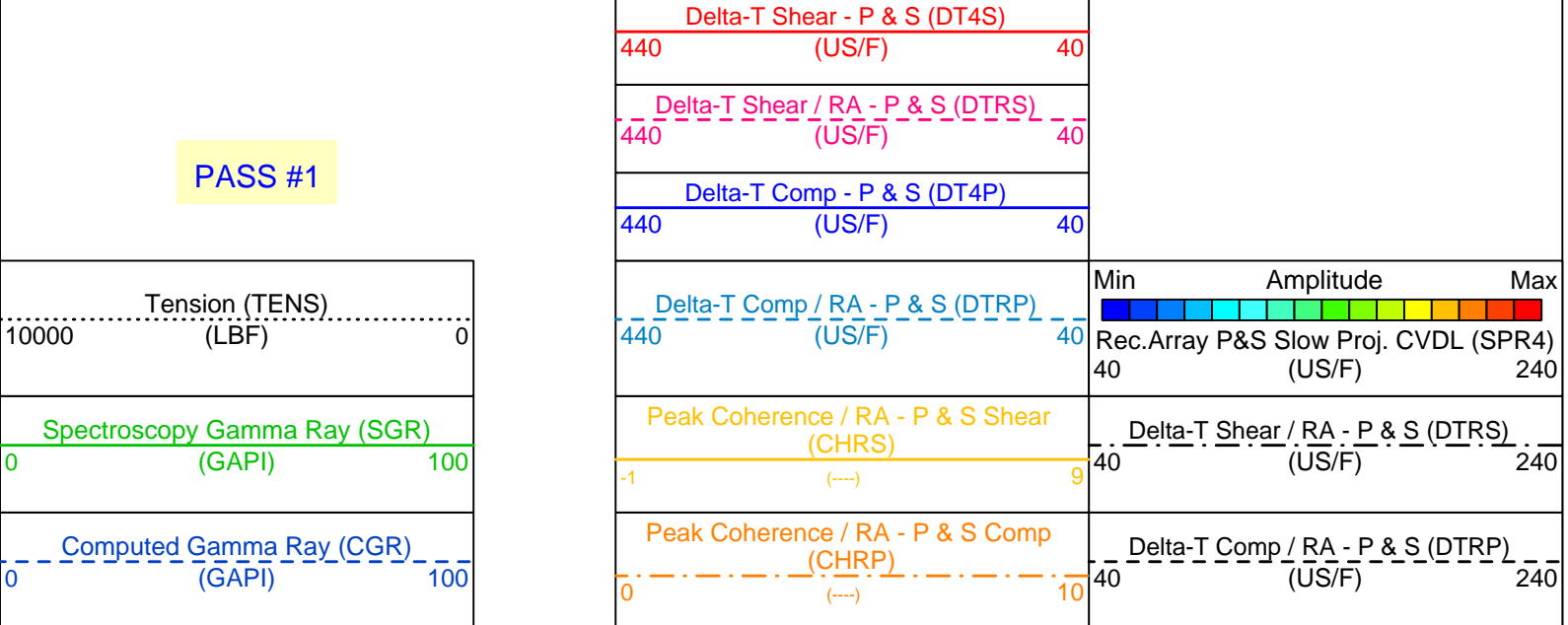
DEFAULT	FMS_NGS_DSI_028PUP	FN:46	PRODUCER	25-Jul-2001 20:54	3523.6 M	3025.7 M
REDUCE	FMS_NGS_DSI_028PUP	FN:47	PRODUCER	25-Jul-2001 20:54	3523.6 M	3025.7 M

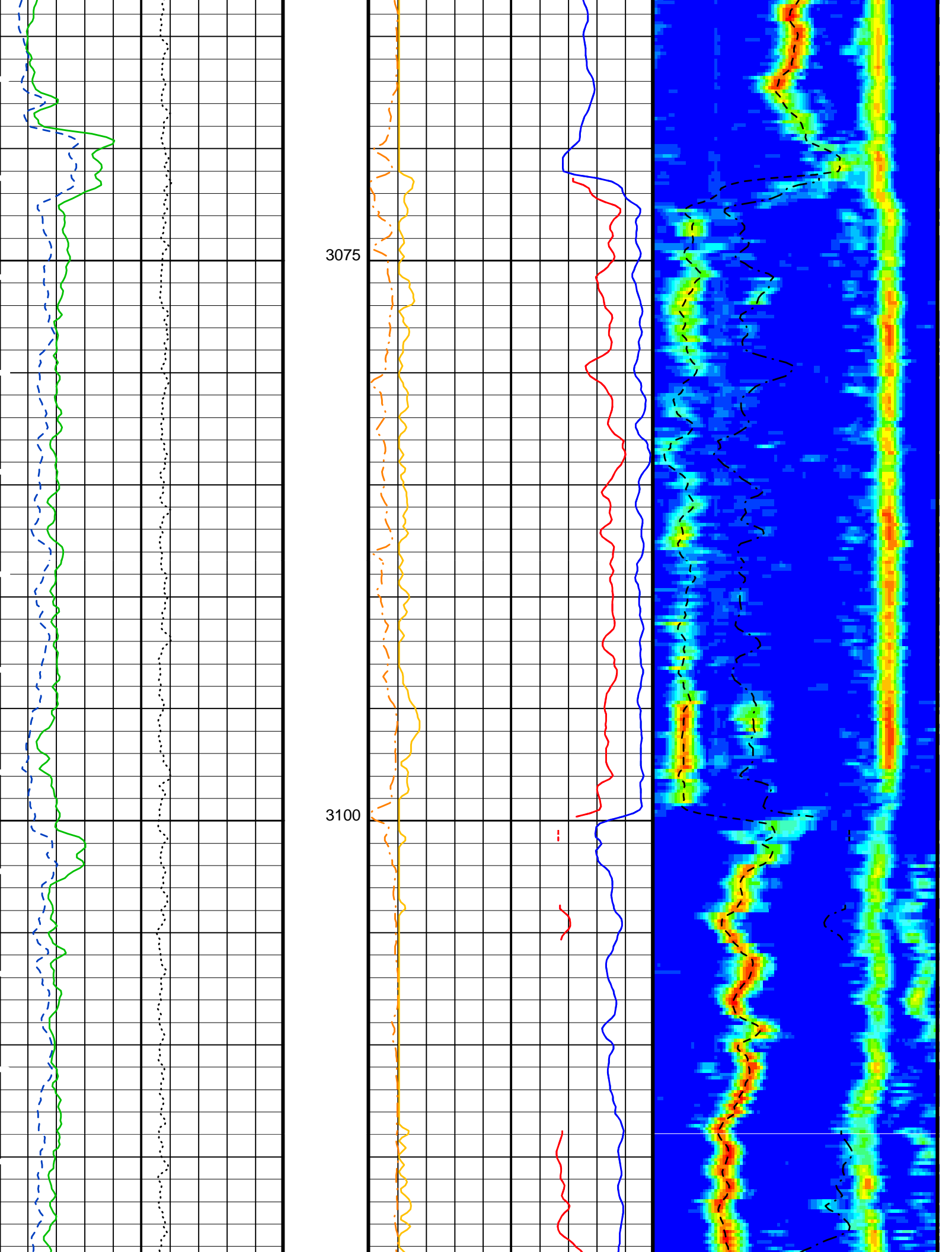
## OP System Version: 9C2-303

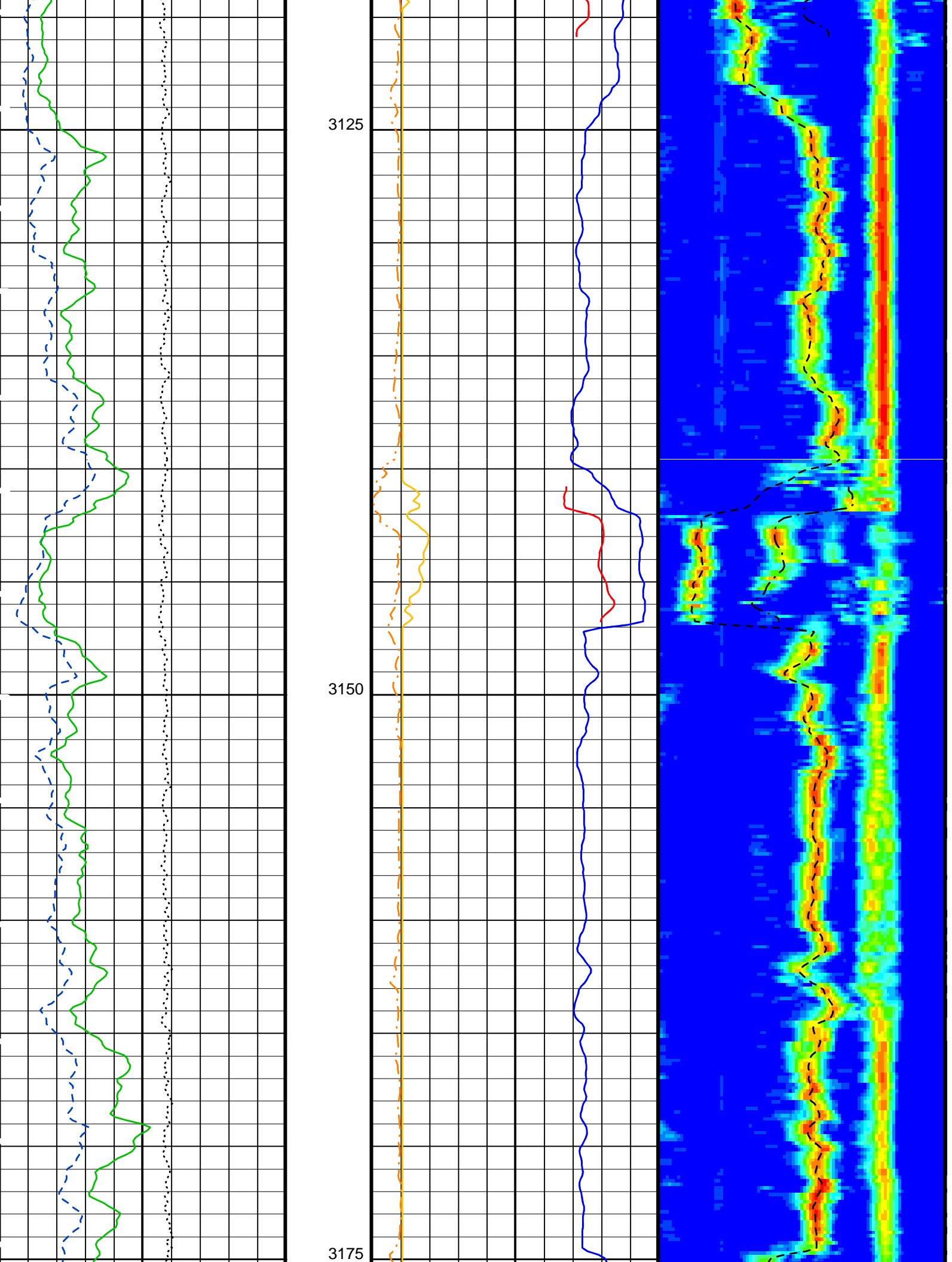
MCM

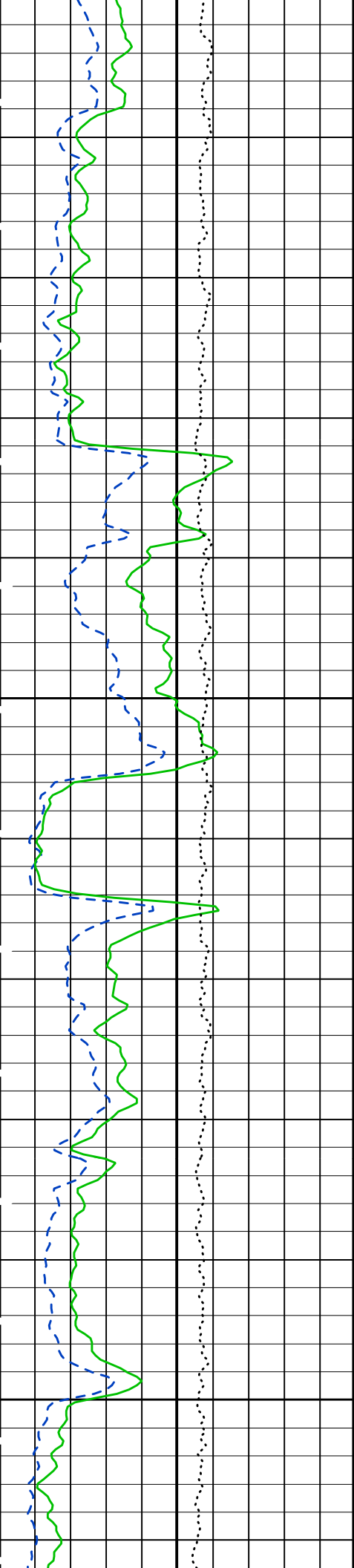
MEST-B	9C2-303	NGT-C	9C2-303
DTA-A	9C2-303	DSST-B	9C2-303
DTC-H	9C2-303		

PIP SUMMARY



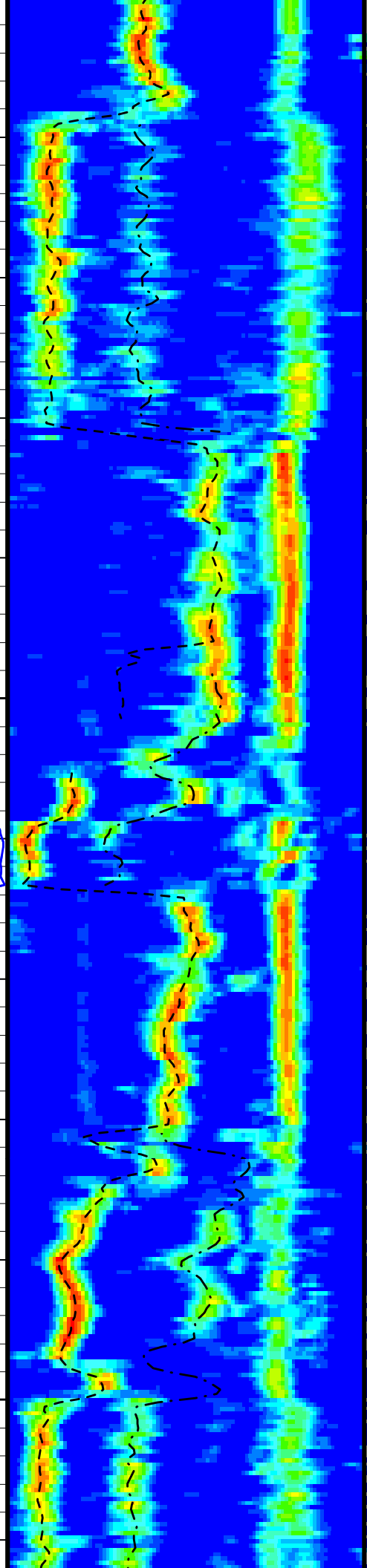
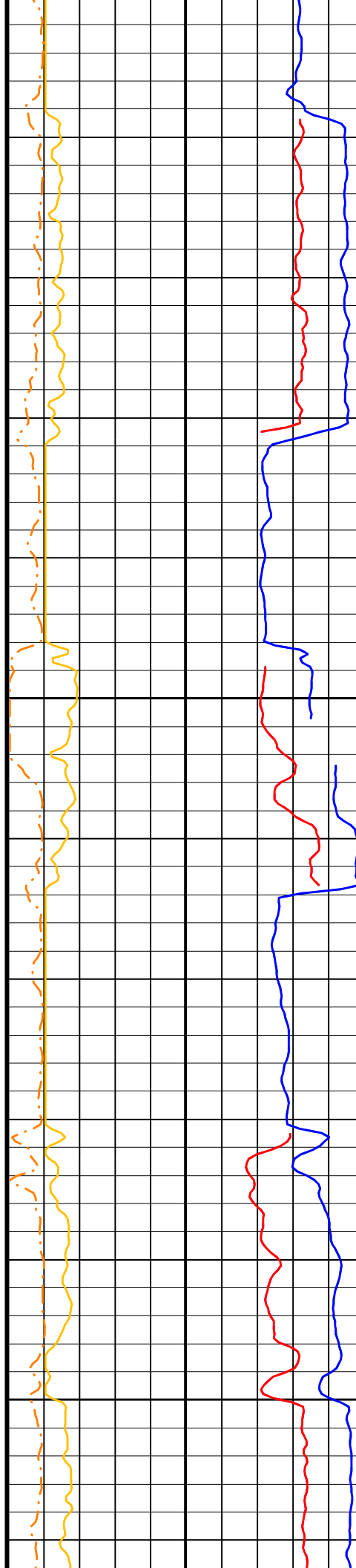




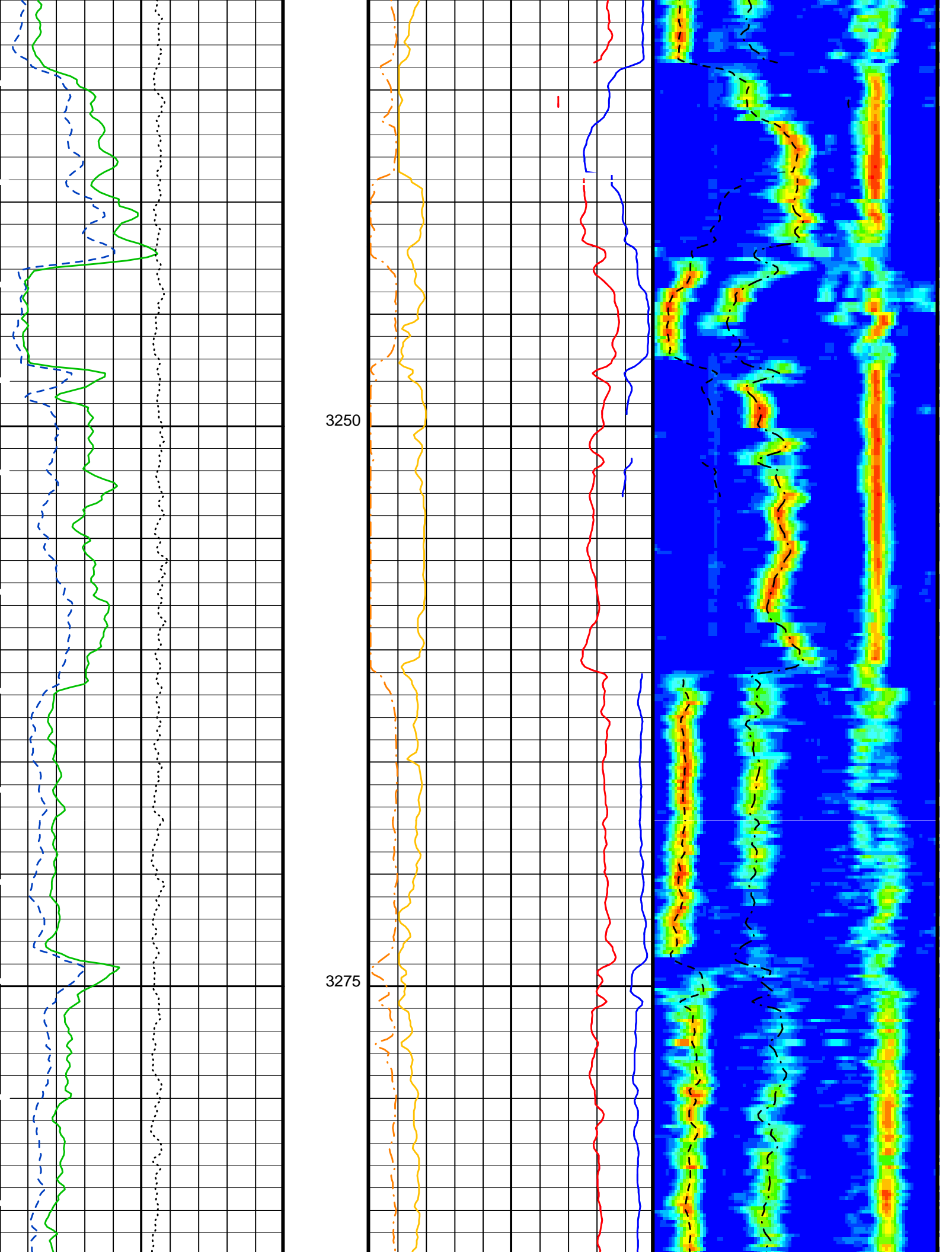


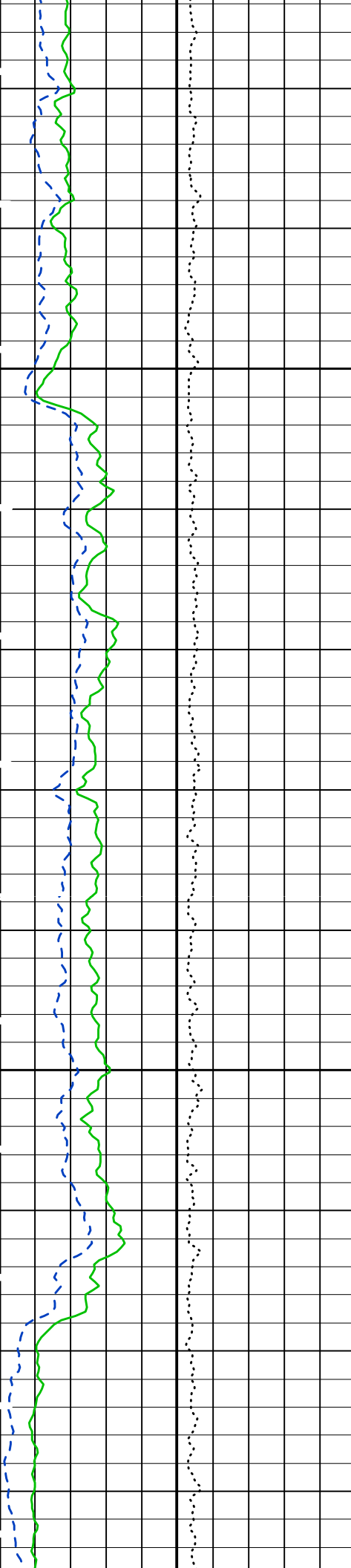
3200

3225



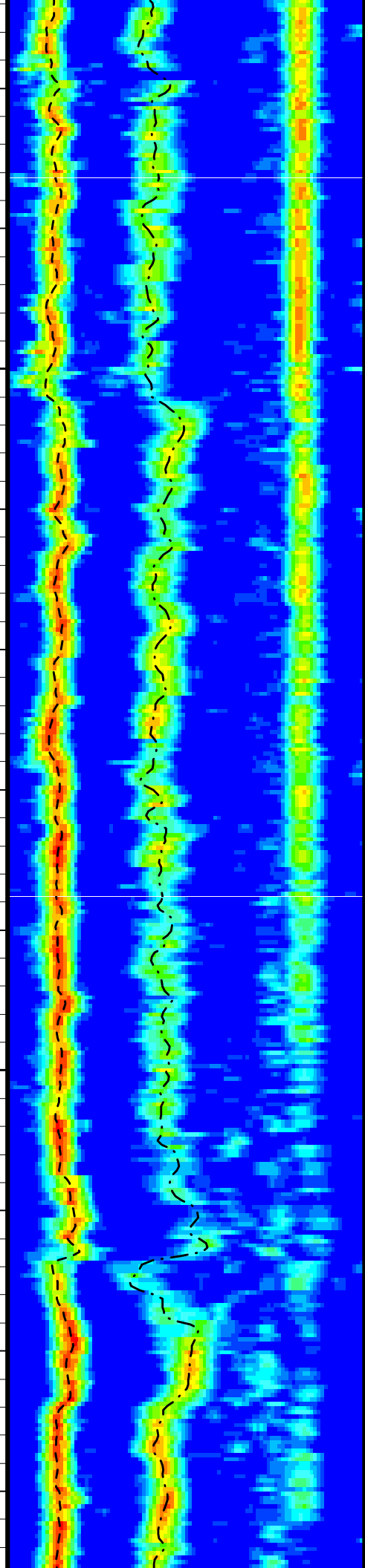
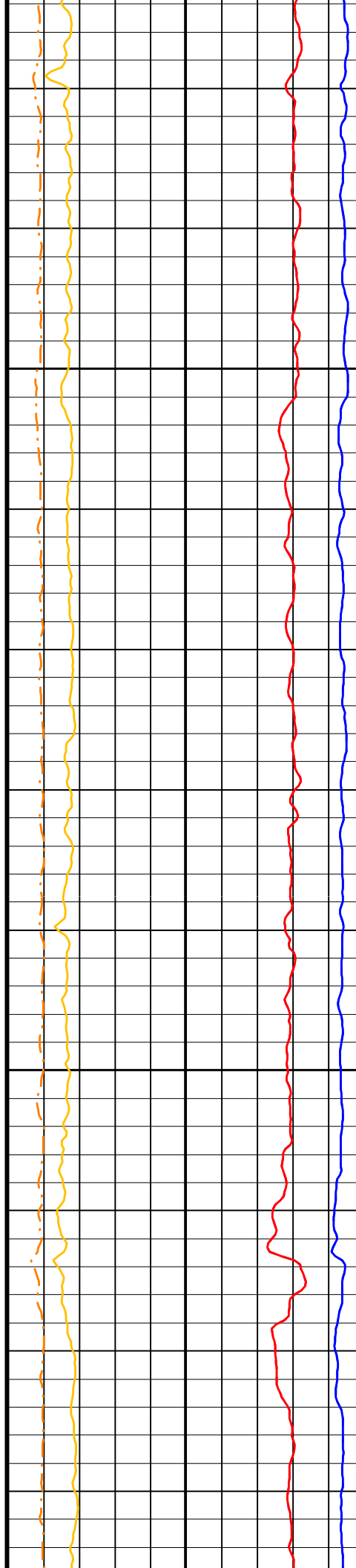


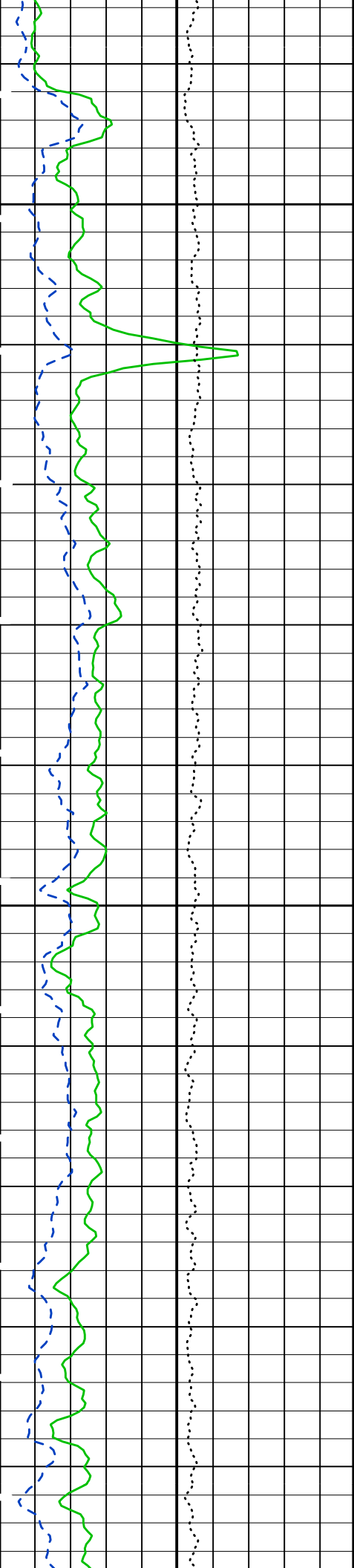




3300

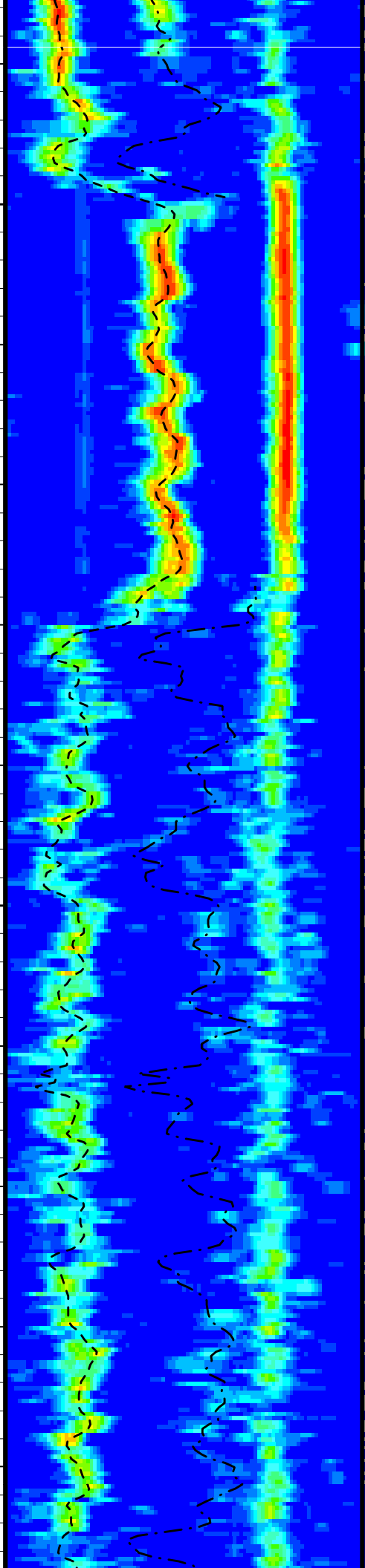
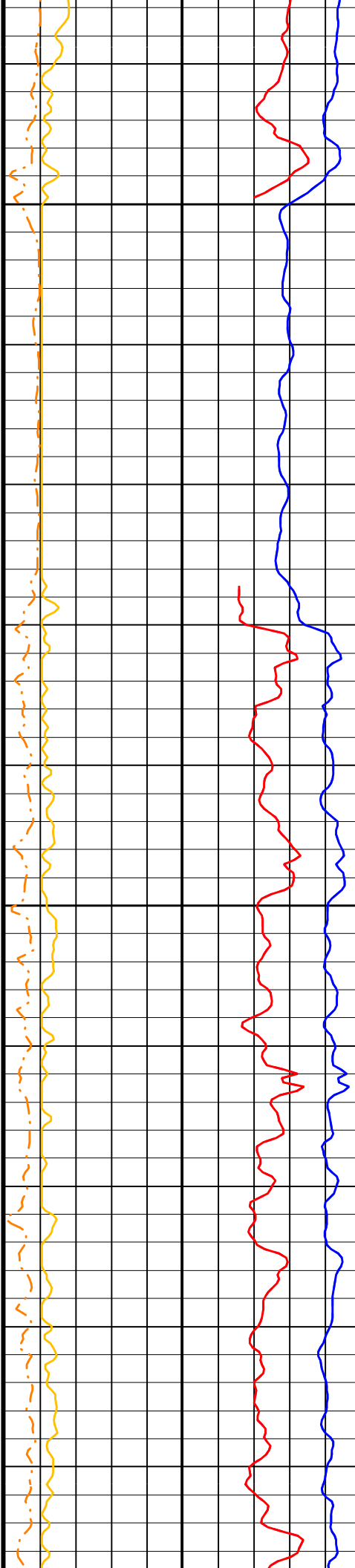
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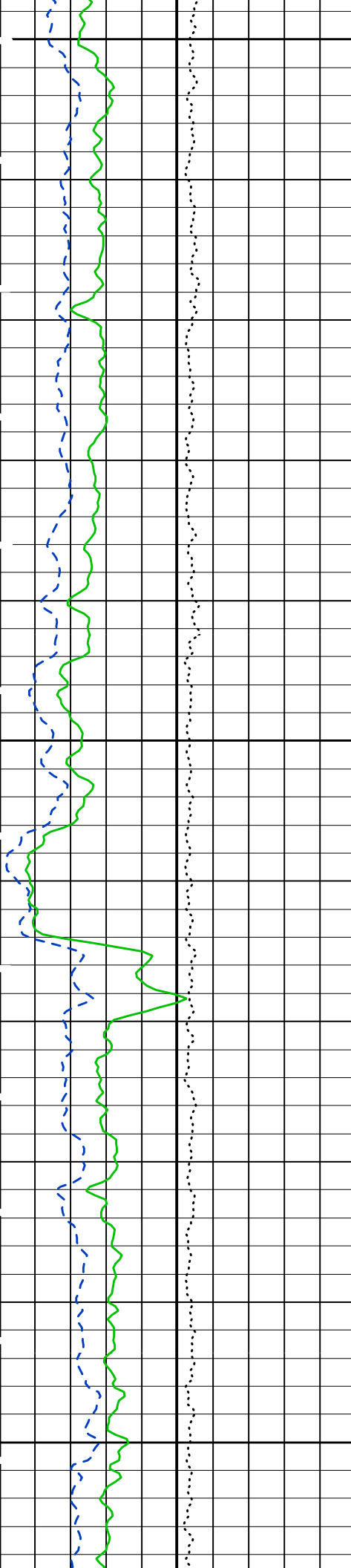




3350

3375

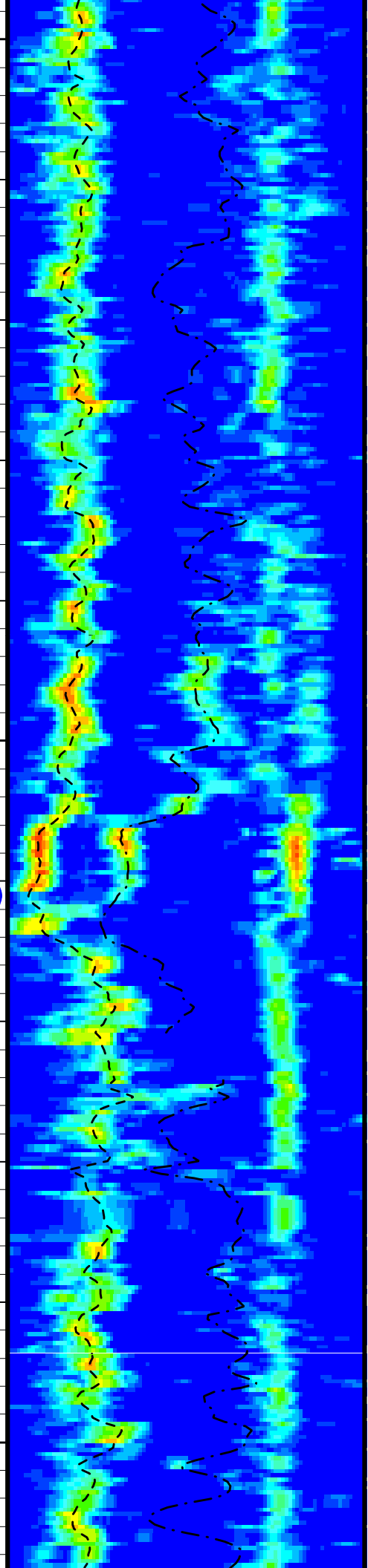
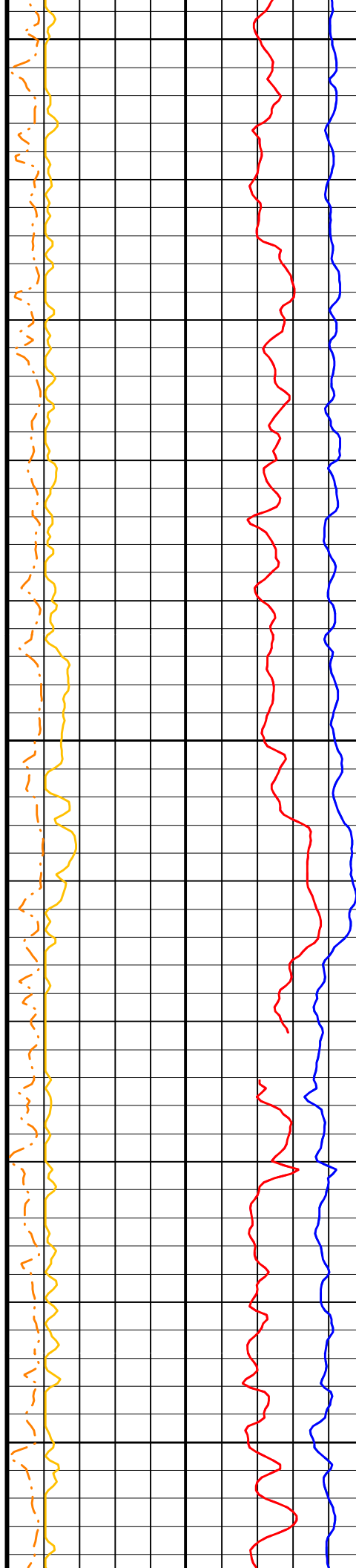


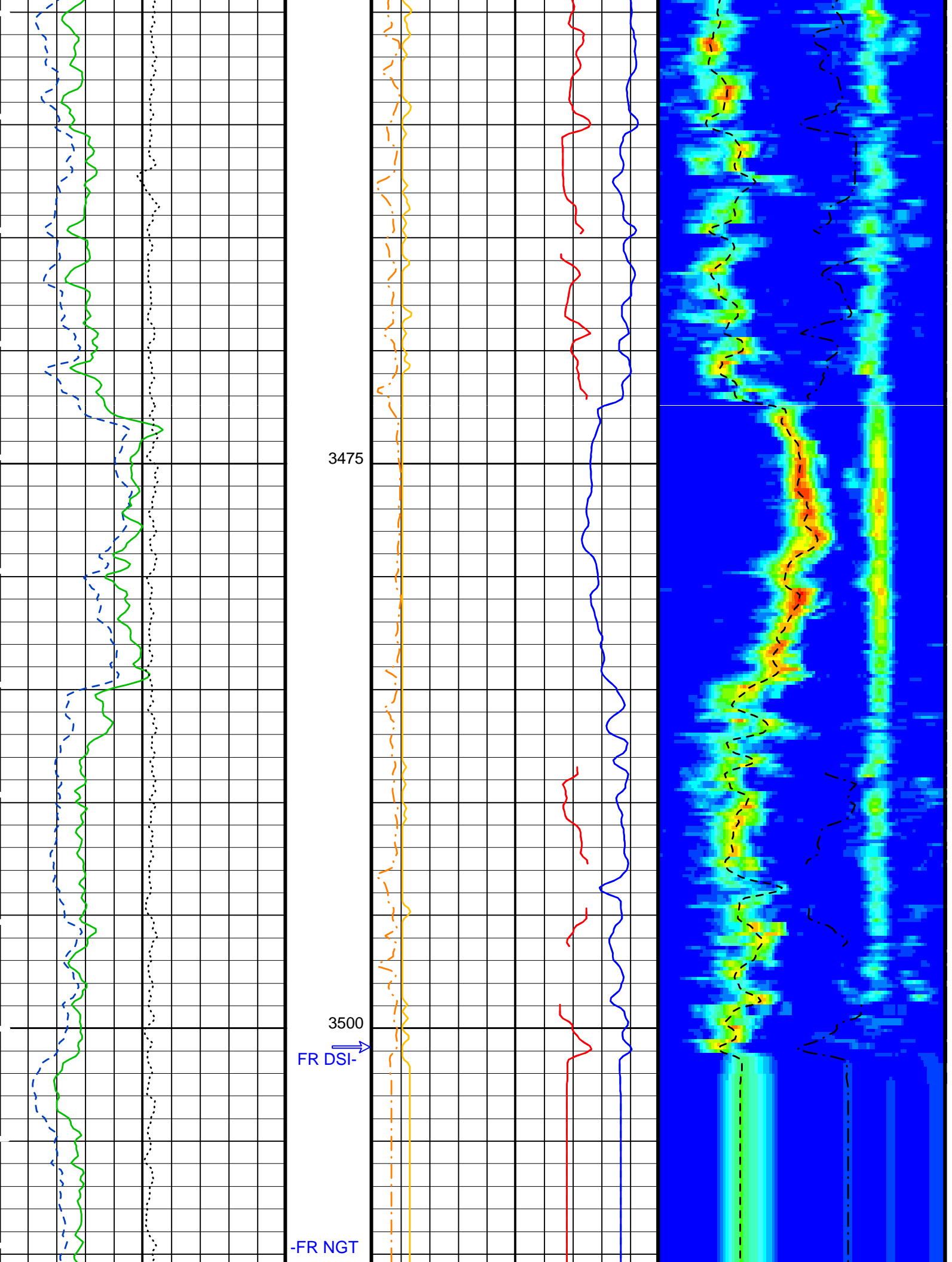


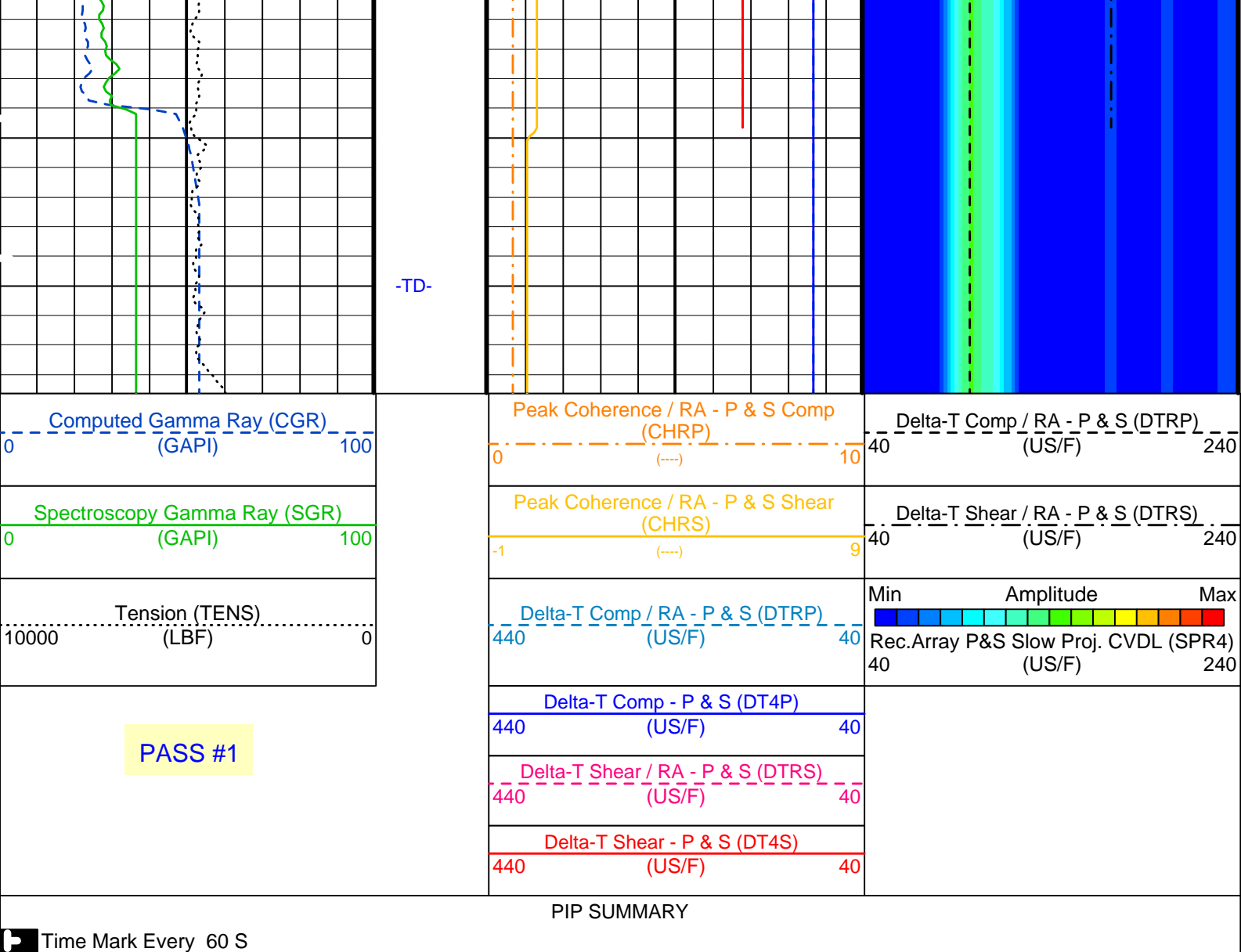
3400

3425

3450







### PIP SUMMARY

## Parameters

DLIS Name	Description	Value	
BHS	Borehole Status	OPEN	
BS	Bit Size	9.875	IN
CASF	Label Casing Function - Monopole P&S	50	
CBAR	Constant Barite	1	
CGMI	Spectro Computed Gamma Ray Minimum	0	GAPI
CGSH	Spectro Computed Gamma Ray Shale	100	GAPI
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DFD	Drilling Fluid Density	1.10	G/C3
DO	Depth Offset for Playback	2.0	M
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta-T Fluid	189	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	480	
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
KMIN	Potassium Minimum	0	
KSHA	Potassium Shale	0.02	
LFC	Label Formation Character - Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NFO	NGT Filtering Option	KALMAN	
PMUD	Potassium Mud	0	%
PP	Playback Processing	NORMAL	
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 - High Frequency Monopole Mode for P&S	306	IN
		EVEN	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	306	IN
		OFF	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM4	STC Filter - Monopole P&S	B3-20K	
SGMI	Spectro Gamma Ray Minimum	0	GAPI
SGSH	Spectro Gamma Ray Shale	100	GAPI
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW4	STC Source Waveform - Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit - Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	240	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TMIN	Thorium Minimum	0	PPM
TSHA	Thorium Shale	12	PPM
TST4	STC Time Step - Monopole P&S	50	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UMIN	Uranium Minimum	0	PPM
USHA	Uranium Shale	3	PPM

Format: DSST\_P\_S\_VDL\_COLOR      Vertical Scale: 1:200      Graphics File Created: 25-Jul-2001 20:54

## OP System Version: 9C2-303

MCM

MEST-B	9C2-303	NGT-C	9C2-303
DTA-A	9C2-303	DSST-B	9C2-303
DTC-H	9C2-303		

### Input DLIS Files

DEFAULT	FMS_NGS_DSI_014LUP	FN:23	PRODUCER	24-Jul-2001 00:03	3521.7 M	3023.2 M
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### Output DLIS Files

DEFAULT	FMS_NGS_DSI_028PUP	FN:46	PRODUCER	25-Jul-2001 20:54
REDUCE	FMS_NGS_DSI_028PUP	FN:47	PRODUCER	25-Jul-2001 20:54

### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner - B (Slim) Wellsite Calibration - Caliper Calibration							
Before: 14-Jul-2001 2:43							
Caliper 1 Zero Measurement	12.00	N/A	12.83	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.70	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.50	N/A	16.14	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.50	N/A	16.55	N/A	N/A	N/A	IN
Micro Electrical Scanner - B (Slim) Wellsite Calibration - CROUZET ACCELEROMETER    PROM HAS BEEN READ CORRECTLY							
Before: 13-Jul-2001 23:21							
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

TEMPERATURE REFERENCE :	N/A	N/A	25	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	91	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	5	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	98	N/A	N/A	N/A	

## Natural Gamma Spectroscopy - C Wellsite Calibration - Background Measurement

Master: 2-Jun-2001 21:29

WINDOW 1 Background	100.0	15.70	N/A	N/A	N/A	100.0	CPS
WINDOW 2 Background	50.00	3.855	N/A	N/A	N/A	50.00	CPS
WINDOW 3 Background	10.00	0.9348	N/A	N/A	N/A	10.00	CPS
WINDOW 4 Background	6.000	0.3249	N/A	N/A	N/A	6.000	CPS
WINDOW 5 Background	10.00	0.4550	N/A	N/A	N/A	10.00	CPS
SGR Background	30.00	5.565	N/A	N/A	N/A	N/A	GAPI

## Natural Gamma Spectroscopy - C Wellsite Calibration - Normalized Jig Measurement

Master: 2-Jun-2001 21:19

WINDOW 1 Jig	376.0	384.0	N/A	N/A	N/A	22.56	CPS
WINDOW 2 Jig	167.0	169.3	N/A	N/A	N/A	10.02	CPS
WINDOW 3 Jig	24.00	24.04	N/A	N/A	N/A	1.440	CPS
WINDOW 4 Jig	14.00	13.78	N/A	N/A	N/A	2.800	CPS
WINDOW 5 Jig	22.50	22.02	N/A	N/A	N/A	4.500	CPS
SGR Jig	160.0	163.3	N/A	N/A	N/A	7.000	GAPI

## Natural Gamma Spectroscopy - C Master Calibration - Master Quality Control Values

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Photomultiplier Res. CARC3	8.000	10.97	--	--	--	--	
APU WINDOW Jig	1350	1170	--	--	--	--	CPS
APL WINDOW Jig	1350	1169	--	--	--	--	CPS

The NGT PCSL Value is set to 77.186 KEV

### 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	840
MEST Acquisition Cartridge - A	MEAC - A	833

Auxiliary Equipment:

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

## Natural Gamma Spectroscopy - C / Equipment Identification

Primary Equipment:







NGT Cartridge	NGC - C	1731
NGT Sonde	NGD - A	1720

Auxiliary Equipment:

NGT Cartridge Housing	NGCH - A	1733
NGT Sonde Housing	NGH - B	1721
Gamma Source Radioactive	GSR - U	

## Natural Gamma Spectroscopy - C Wellsite Calibration







## Background Measurement



Background Measurement											
Phase	WINDOW 1 Background CPS		Value	Phase	WINDOW 2 Background CPS		Value	Phase	WINDOW 3 Background CPS		Value
Master			15.70	Master			3.855	Master			0.9348
	0 (Minimum)	100.0 (Nominal)	400.0 (Maximum)		0 (Minimum)	50.00 (Nominal)	200.0 (Maximum)		0 (Minimum)	10.00 (Nominal)	40.00 (Maximum)
Phase	WINDOW 4 Background CPS		Value	Phase	WINDOW 5 Background CPS		Value	Phase	SGR Background GAPI		Value
Master			0.3249	Master			0.4550	Master			5.565
	0 (Minimum)	6.000 (Nominal)	24.00 (Maximum)		0 (Minimum)	10.00 (Nominal)	40.00 (Maximum)		0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)

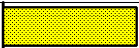



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## Natural Gamma Spectroscopy - C Wellsite Calibration



Normalized Jig Measurement														
Phase	WINDOW 1 Jig CPS			Value	Phase	WINDOW 2 Jig CPS			Value	Phase	WINDOW 3 Jig CPS			Value
Master				384.0	Master				169.3	Master				24.04
	354.0 (Minimum)	376.0 (Nominal)	398.0 (Maximum)	155.0 (Minimum)		167.0 (Nominal)	179.0 (Maximum)	21.50 (Minimum)	24.00 (Nominal)		26.50 (Maximum)			
Phase	WINDOW 4 Jig CPS			Value	Phase	WINDOW 5 Jig CPS			Value	Phase	SGR Jig GAPI			Value
Master				13.78	Master				22.02	Master				163.3
	12.50 (Minimum)	14.00 (Nominal)	15.50 (Maximum)	20.00 (Minimum)		22.50 (Nominal)	25.00 (Maximum)	148.0 (Minimum)	160.0 (Nominal)		172.0 (Maximum)			
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Natural Gamma Spectroscopy - C Wellsite Calibration									
Quality Control Values									
Phase	DHVF Jig V			Value	Phase	Quality Windows Ratio Jig			Value
Master				1355	Master				2.268
	1088 (Minimum)	1450 (Nominal)	1813 (Maximum)			2.150 (Minimum)	2.240 (Nominal)	2.330 (Maximum)	
Master: 2-Jun-2001 21:19									

Natural Gamma Spectroscopy - C Master Calibration														
Master Quality Control Values														
Phase	Photomultiplier Res. CARC3			Value	Phase	APU WINDOW Jig CPS			Value	Phase	APL WINDOW Jig CPS			Value
Master				10.97	Master				1170	Master				1169
	4.500 (Minimum)	8.000 (Nominal)	11.50 (Maximum)			700.0 (Minimum)	1350 (Nominal)	1600 (Maximum)			700.0 (Minimum)	1350 (Nominal)	1600 (Maximum)	
Phase	Thorium peak Form Factor Jig			Value										
Master				-0.03451										
	-0.1000 (Minimum)	0 (Nominal)	0.1000 (Maximum)											
Master: 2-Jun-2001 21:15														

COMPANY:	Lamont Doherty	BOTTOM LOG INTERVAL	3501 m
		SCHLUMBERGER DEPTH	3520 m
		DEPTH DRILLER	3519 m
		KELLY BUSHING	11.3 m
		DRILL FLOOR	11 m
		GROUND LEVEL	-2604 m
WELL:	ODP Leg 197, Site He-3A, Hole 1203A		
FIELD:	Detroit Seamount, Emperor Seamount Chain		
OCEAN:	Pacific		
		Dipole Shear Sonic P&S, Upper Dipole Shear Natural Gamma Ray	