Schlumberger

Company: **Lamont Doherty Earth Observatory**

Well: **Expedition 352, Site U1439C**
Field: **IBM−3 Forearc**
Rig: **JOIDES Resolution** Country:

Rig: JOIDES Resolution
Field: IBM−3 Forearc
Location: Latitude: N 28.40749*
Well: Expedition 352, Site U1439C
Company: Lamont Doherty Earth Observatory

DSI Dipole Sonic Imager
Stoneley

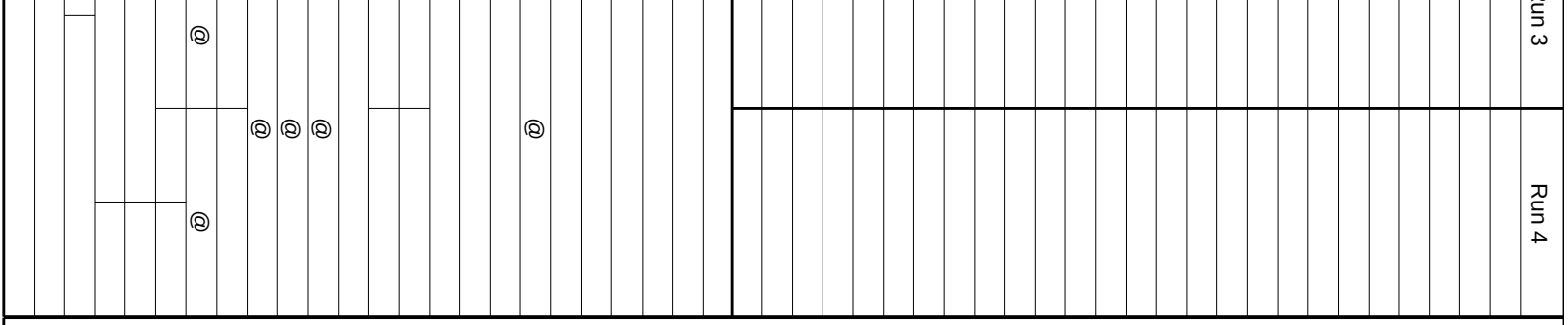
LOCATION

Latitude: N 28.40749*		Elev.: K.B.	−3140.00 m
Longitude: E 142.6089467*		G.L.	0.00 m
		D.F.	−3140.00 m
Permanent Datum:	Sea Floor	Elev.:	−3140.00 m
Log Measured From:	Drill Floor	3140.00 m above Perm. Datum	
Drilling Measured From:	Drill Floor		

Ocean:	Max. Well Deviation	Longitude	Latitude
Pacific	0 deg	E 142.6089467	N 28.40749

	Run 1	Run 2	R
Logging Date	10−Sep−2014		
Run Number	2		
Depth Driller	544.3 m		
Schlumberger Depth	398.5 m		
Bottom Log Interval	379 m		
Top Log Interval	179 m		
Casing Driller Size @ Depth	10.750 in @ 178 m	@	
Casing Schlumberger	179 m		
Bit Size	9.875 in		
Type Fluid In Hole	Seawater		
MUD Density / Viscosity	1.03 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	@ 7 / @ 7	@ / @	
Maximum Recorded Temperatures	7 degC		
Circulation Stopped / Time	10−Sep−2014 / 18:00		
Logger On Bottom / Time	10−Sep−2014 / 23:00		
Unit Number / Location	627314 / Houston		
Recorded By	C. Furman		
Witnessed By	S. Morgan		

	Run 1	Run 2	R
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			



DISCLAIMER

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OTHER SERVICES1

OS1: HRLA/HLDS
OS2: HNGS
OS3: FMS
OS4: MSS

REMARKS: RUN NUMBER 1

Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8 " BS
Re−entry system and 10−3/4 in. casing deployed with casing shoe at 178mbsf.
Bit placed at 150mbsf (driller's depth) prior to logging.
Hole remained filled with sea water, as drilled, for logging.
Tools run as per tool sketch centered using two modified MCD tools as inline centralizers.
Hole obstructed at 398.5mbsf; tools unable to pass obstruction. First pass recorded from this depth.
Tools unable to descend beyond 390mbsf for second pass; second pass recorded from this depth.
Casing shoe found at 179mbsf; bit (end of pipe) positioned at 149mbsf. Caliper closed at 190mbsf.
Borehole corrections applied using FMS caliper (C1) for upward passes; bit size used for downlog.
Logs recorded in real−time with depth zero at drill floor; final depth adjusted to have zero at sea floor for core compatibilit
Depth reference for this hole was the second pass of the first run; all other logs tied into that pass.
FMS run with EMEX set to Automatic Gain mode and calipers open from maximum depth up to 190mbsf.
DSI run with the following modes:
Lower Dipole = Standard Frequency
Upper Dipole = Low Frequency
P & S Monopole = Standard Frequency
Stoneley (Monopole) = Standard Frequency

RUN 1

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

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

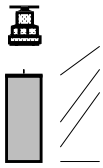
GSR−U 616008
WITM (EDTS)−A

DOWNHOLE EQUIPMENT

LEH−QT
LEH−QT 301

EDTC−B
EDTH−B 8303
EDTC−B 8317
EDTG−A/B 8305

MDSB_EDTC
Mud Tempe
CTEM
Gamma Ray
EFTB DIAG
TelStatus
EDTCB Ele



35.44
34.55

RUN 2

HNGS−BA
HNGS−BA 194
HNSH−BA 205

Upper_1 31.87
Lower_2 31.66

32.57

HNGC−B
HNGH−A 115

HNGC Stat 29.54

30.07

AH−MCD2
AH−MCD2

29.01

DSST−B
SPAC−B 8194
ECH−SD 8183
SMDR−BD 8232
SSIJ−BA 8204
SMDX−AA 8147

26.73

PWF 11.18

AH−MCD1
AH−MCD1

11.18

DTA−A
ECH−KE 8456

8.90

MEST−B
MEAH−B 769
MEAC−A 875
MEPH−A 702
GPIC−AC 840
MEPC−AB 807
MEDS−B 724

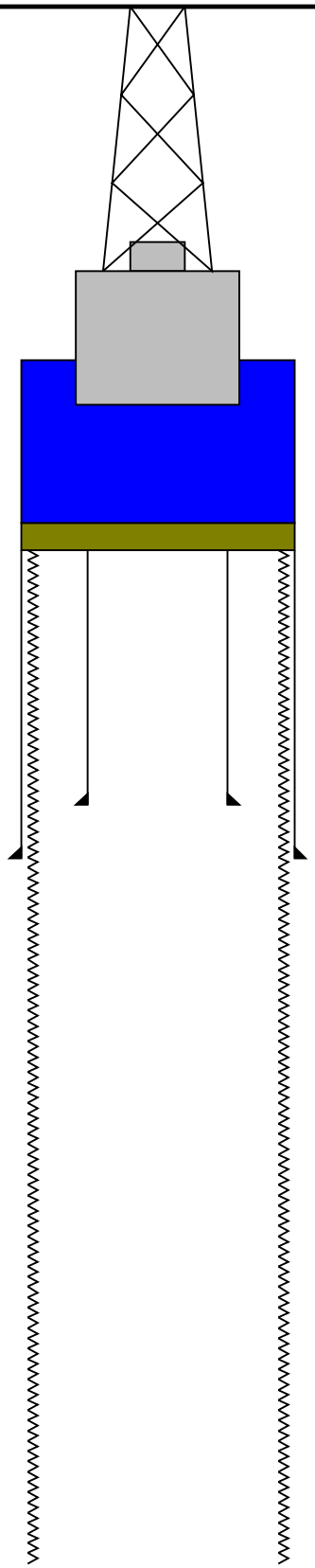
7.68

MEDR MEAC
MEPC MEDS−B 0.46
HV DF ACCZ
Tension GPIT 0.00
TOOL ZERO

MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

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

	OD	ID	MD
Kelly Bushing Elevation			−3140.0
Derrick Floor Elevation			−3140.0
Mean Sea Level			−3129.2



MD	OD	ID	
0.0			Sea Floor
150.0	5.500	4.000	Bit
178.0	10.750	10.050	Casing Shoe
544.3	9.875		Total Depth − Driller

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Downlog

MAXIS Field Log

Company: Lamont Doherty Earth Observatory **Well: Expedition 352, Site U1439C**

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP		PRODUCER	13−Sep−2014 11:57	3542.5 M	3067.8 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:38	PRODUCER	13−Sep−2014 11:59	401.6 M	−54.7 M
CUST	FMS_DSI_NGS_034PUC	FN:39	CUSTOMER	13−Sep−2014 11:59	401.6 M	−54.7 M

OP System Version: 19C0−187

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

PIP SUMMARY

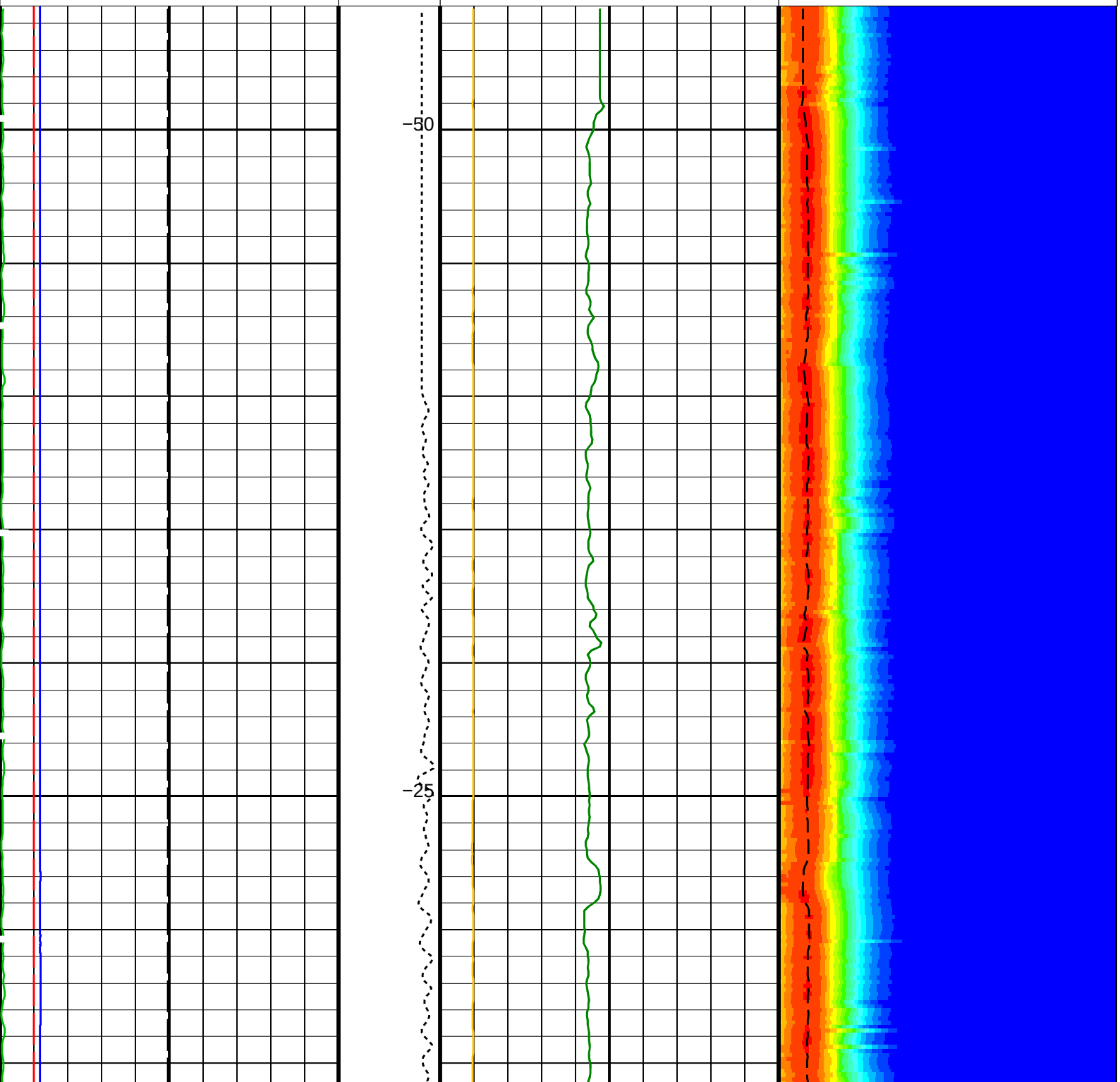
Time Mark Every 60 S

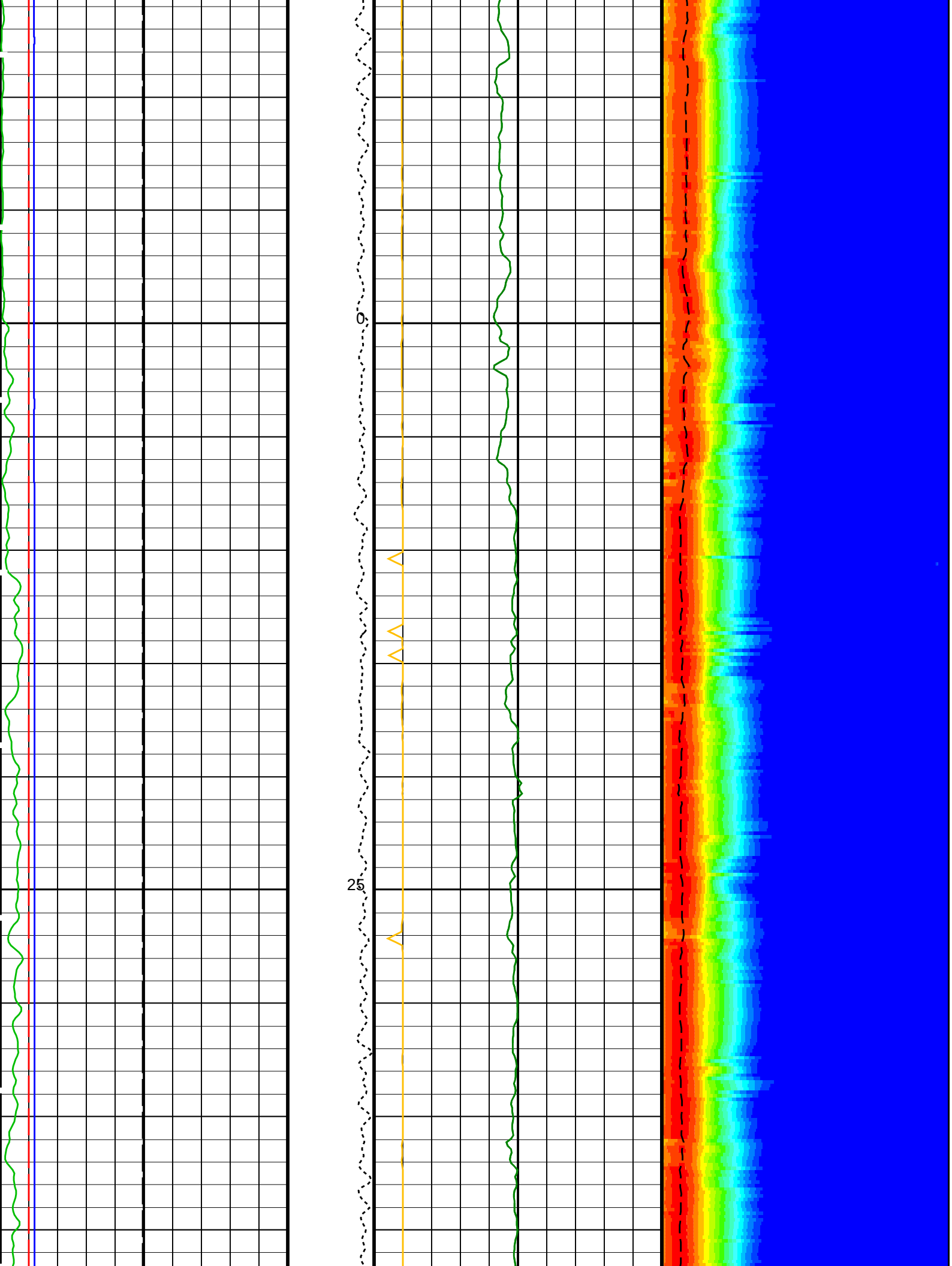
Gamma Ray (GR_EDTC) 0 (GAPI) 150		
Caliper 2 (C2) 0 (IN) 20		Delta−T Stoneley (DTST) 440 (US/F) 40
Caliper 1 (C1) 0 (IN) 20		Delta−T Stoneley / RA (DT3R) 440 (US/F) 40
Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	Peak Coherence / RA − Stoneley (CHR3) 0 (−−−−) 10

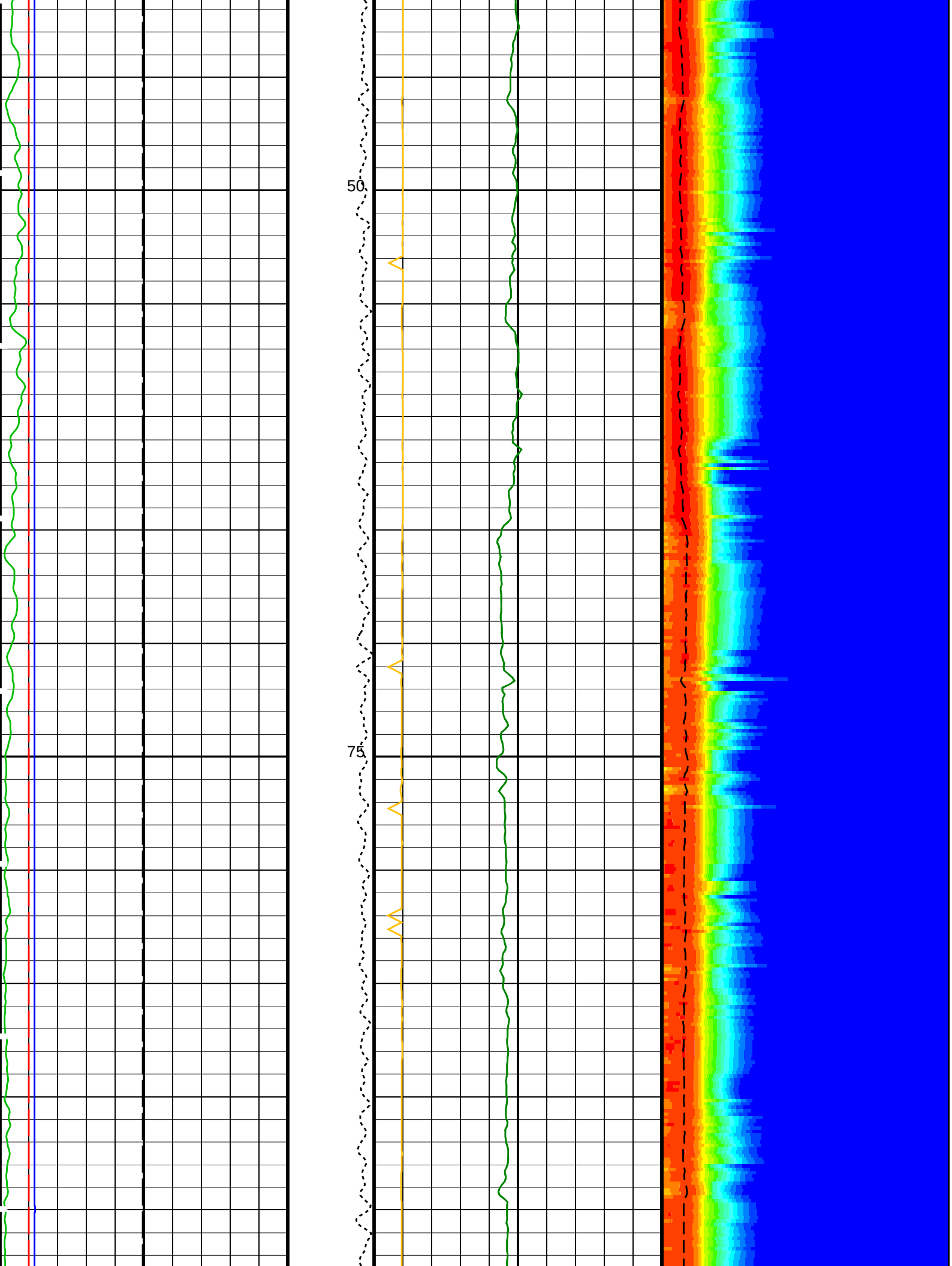
Min Amplitude Max

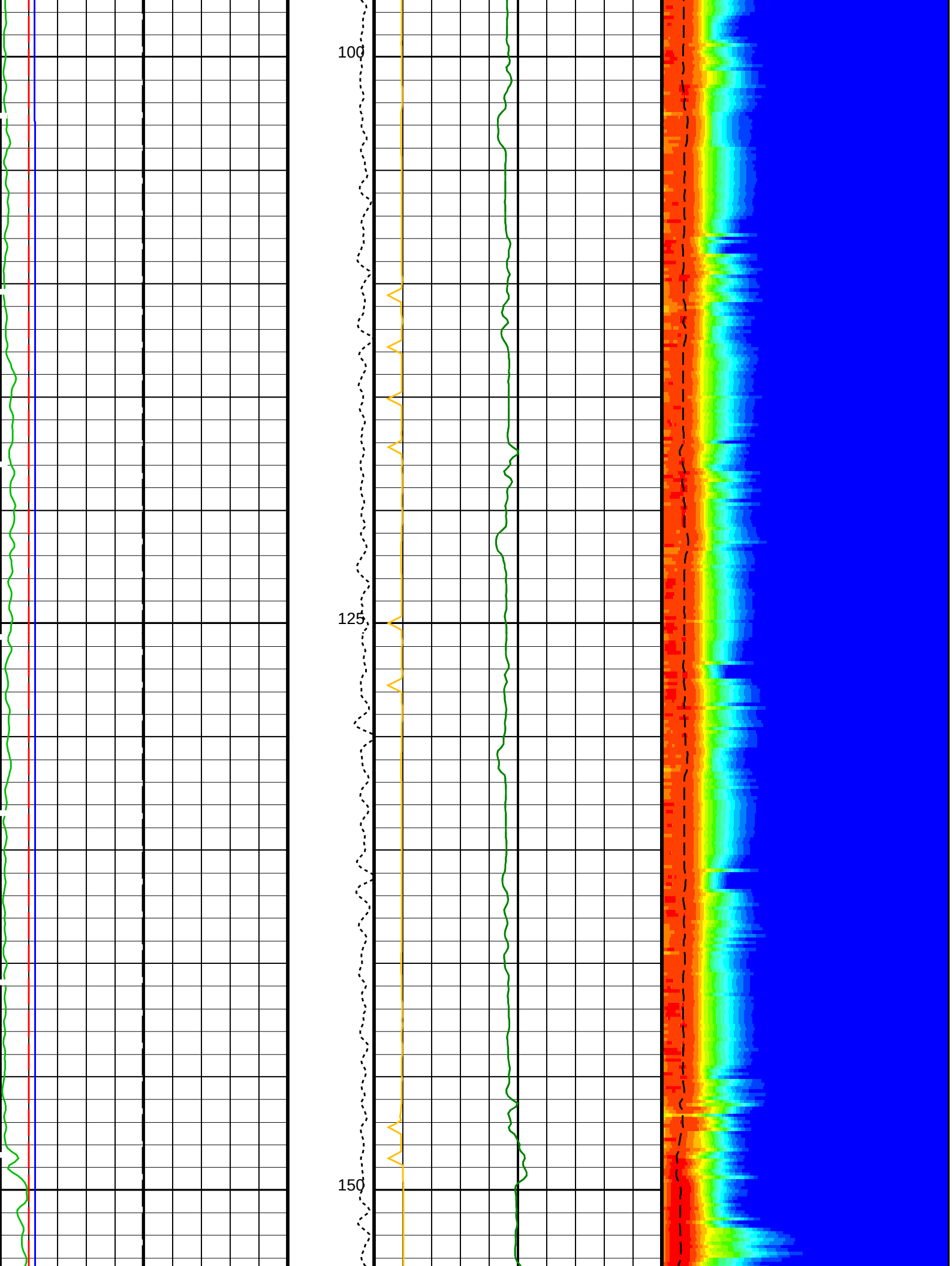
Rec.Array Stoneley Slow Proj. CVDL (SPR3) 180 (US/F) 1200

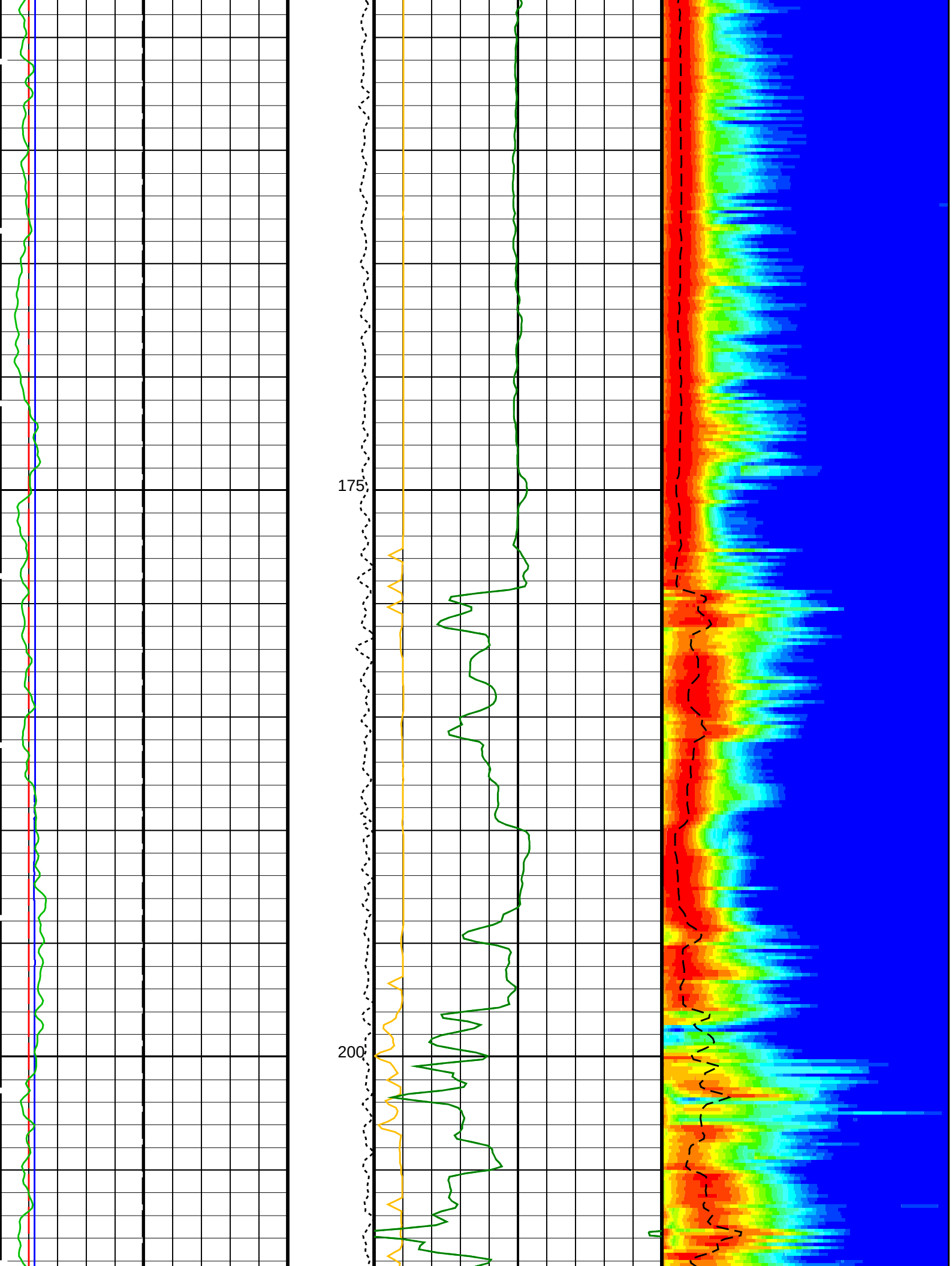
Delta−T Stoneley / RA (DT3R) 180 (US/F) 1200

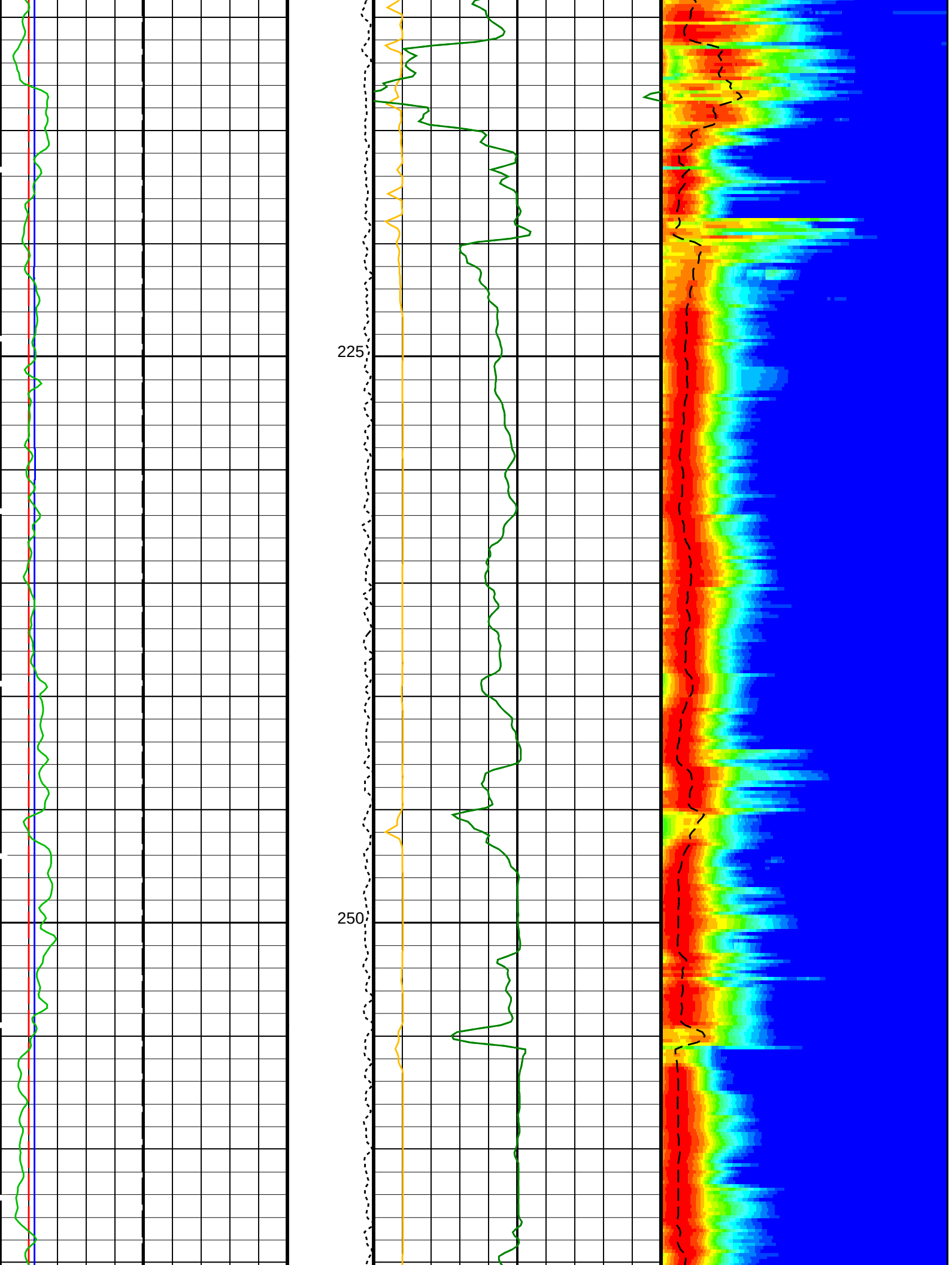



0
25


50
75


100
125
150


175
200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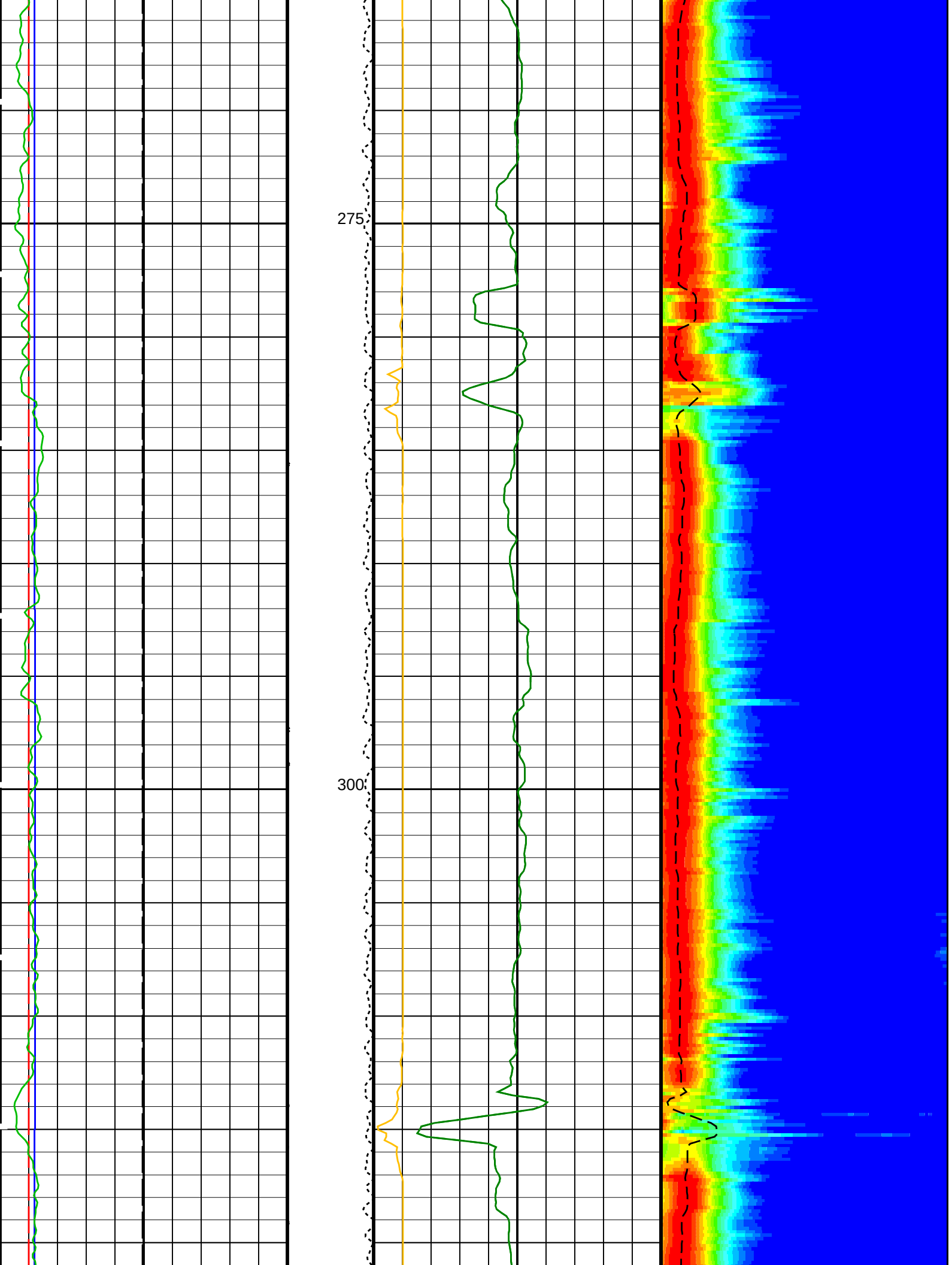
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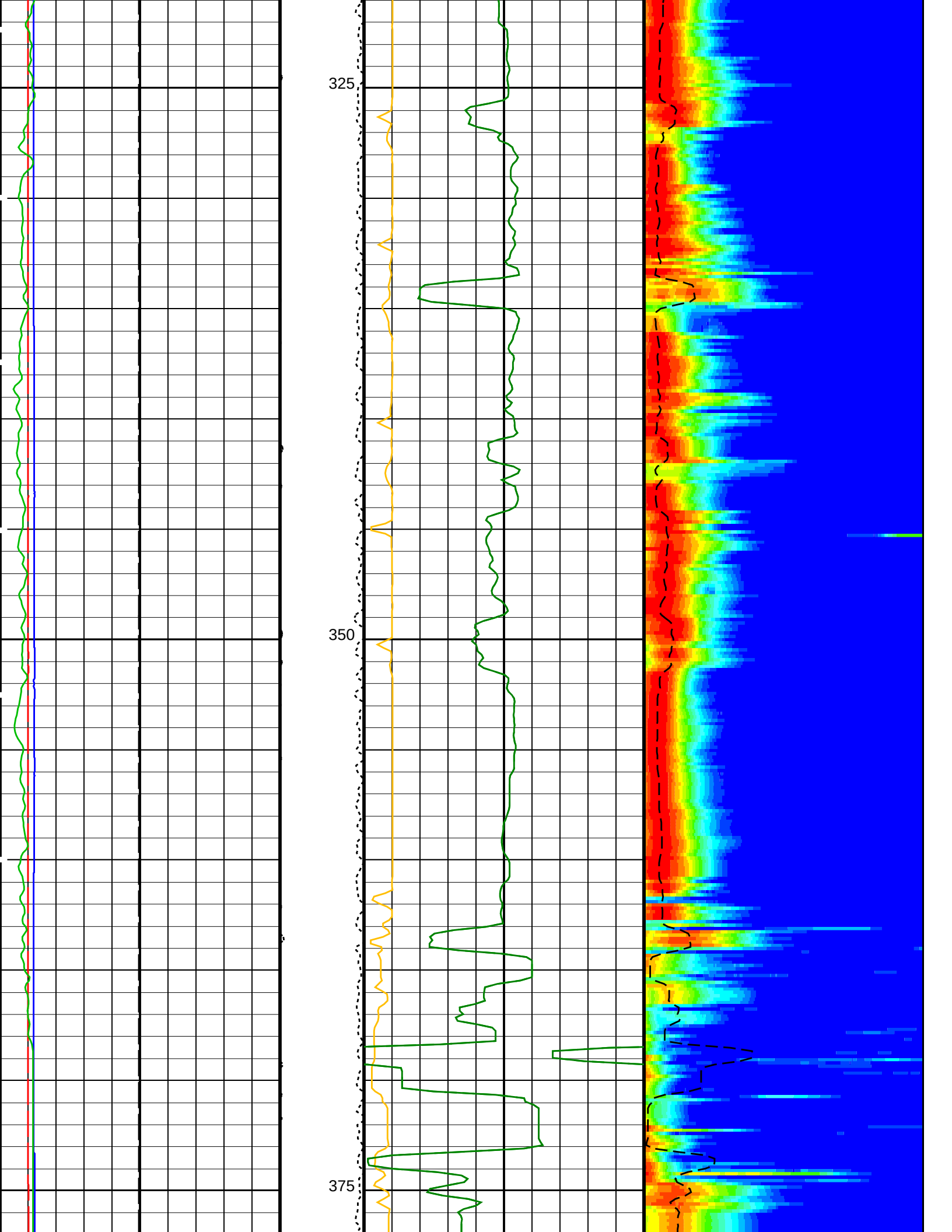
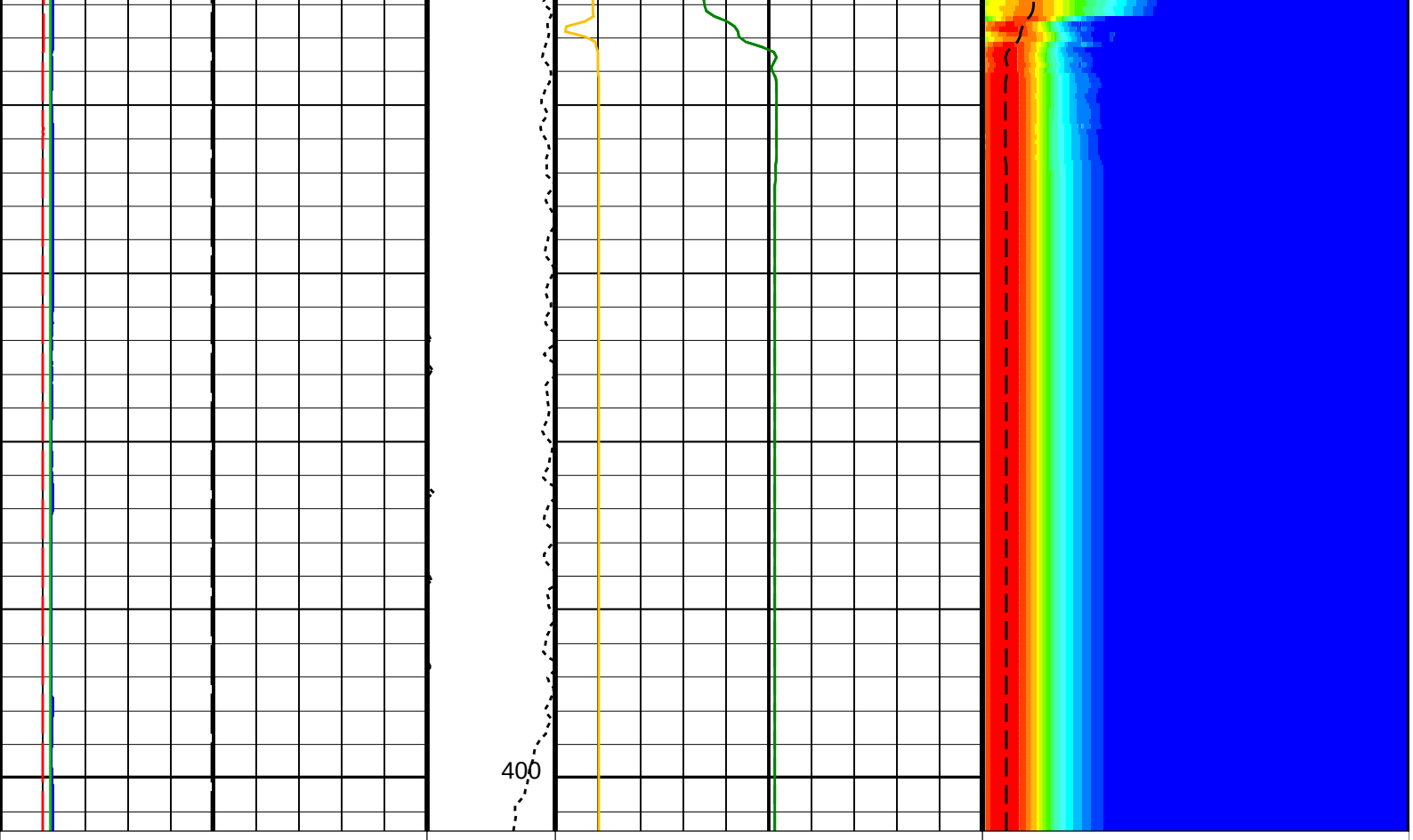

325
350
375



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	Peak Coherence / RA − Stoneley (CHR3) 0 (−−−−) 10
Caliper 1 (C1) 0 (IN) 20		Delta−T Stoneley / RA (DT3R) 440 (US/F) 40
Caliper 2 (C2) 0 (IN) 20		Delta−T Stoneley (DTST) 440 (US/F) 40
Gamma Ray (GR_EDTC) 0 (GAPI) 150		

Delta−T Stoneley / RA (DT3R) 180 (US/F) 1200
Min Amplitude Max Rec.Array Stoneley Slow Proj. CVDL (SPR3) 180 (US/F) 1200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN

SAM3	DSST Sonic Acquisition Mode 3 − Monopole Mode for Stoneley	EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status − Monopole Stoneley	255	
SBO3	STC Search Band Offset − Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth − Monopole Stoneley	6000	US
SFC3	STC Formation Character − Monopole Stoneley	SELECTABLE	
SFM3	STC Filter − Monopole Stoneley	B.5−1.5K	
SLL3	STC Slowness Lower Limit − Monopole Stoneley	180	US/F
SST3	STC Slowness Step − Monopole Stoneley	4	US/F
SSW3	STC Source Waveform − Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit − Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	1200	US/F
SUL3	STC Slowness Upper Limit − Monopole Stoneley	1200	US/F
SWD3	STC Slowness Width − Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill − Monopole Stoneley	0	US
TLL3	STC Time Lower Limit − Monopole Stoneley	620	US
TST3	STC Time Step − Monopole Stoneley	200	US
TUL3	STC Time Upper Limit − Monopole Stoneley	15800	US
TWD3	STC Time Width − Monopole Stoneley	2000	US
TWI3	STC Integration Time Window − Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−3141.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR **Vertical Scale: 1:200** **Graphics File Created: 13−Sep−2014 11:59**

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_033LUP	PRODUCER	13−Sep−2014 11:57	3542.5 M	3067.8 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:38	PRODUCER	13−Sep−2014 11:59		
CUST	FMS_DSI_NGS_034PUC	FN:39	CUSTOMER	13−Sep−2014 11:59		

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First Pass

MAXIS Field Log

Company: Lamont Doherty Earth Observatory **Well: Expedition 352, Site U1439C**

Input DLIS Files

DEFAULT	FMS_DSI_NGS_014LUP	FN:13	PRODUCER	10−Sep−2014 16:30	3541.0 M	3330.9 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:36	PRODUCER	13−Sep−2014 11:54	400.0 M	190.3 M
CUST	FMS_DSI_NGS_032PUC	FN:37	CUSTOMER	13−Sep−2014 11:54	400.0 M	190.3 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187

DSST−B	19C0−187	HNGS−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR_EDTC)
0 (GAPI) 150

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

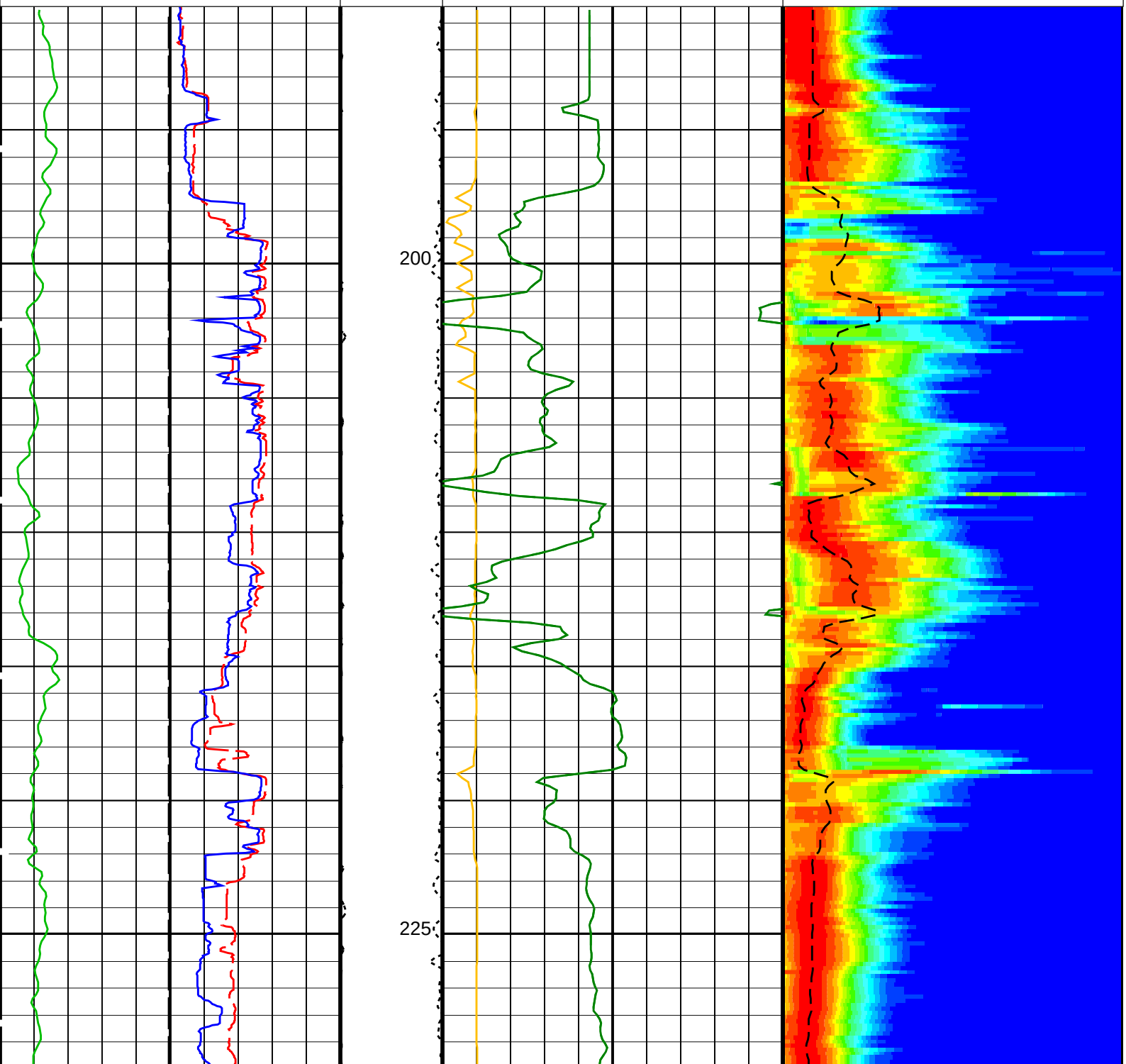
Delta−T Stoneley (DTST)
440 (US/F) 40

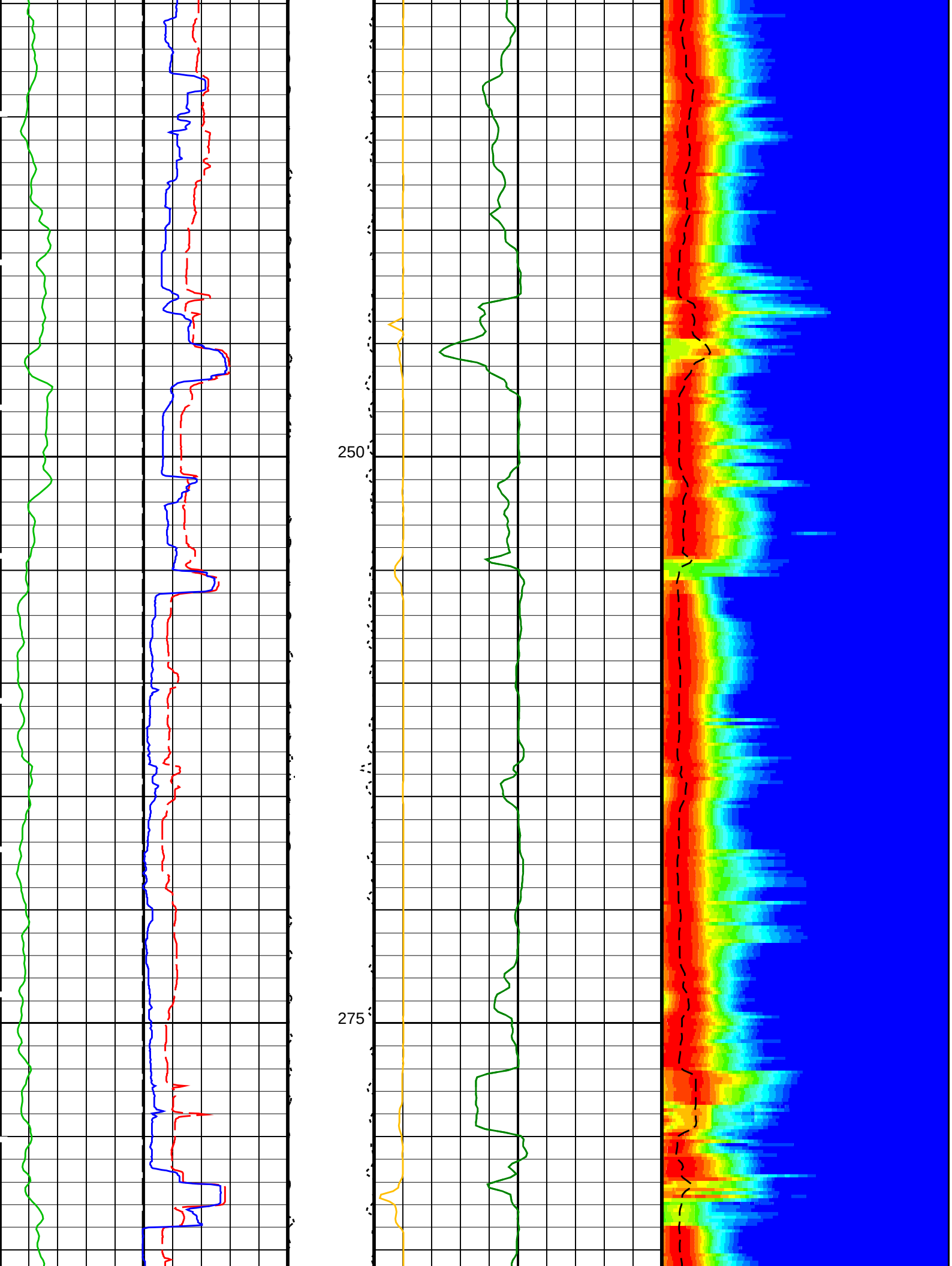
Delta−T Stoneley / RA (DT3R)
440 (US/F) 40

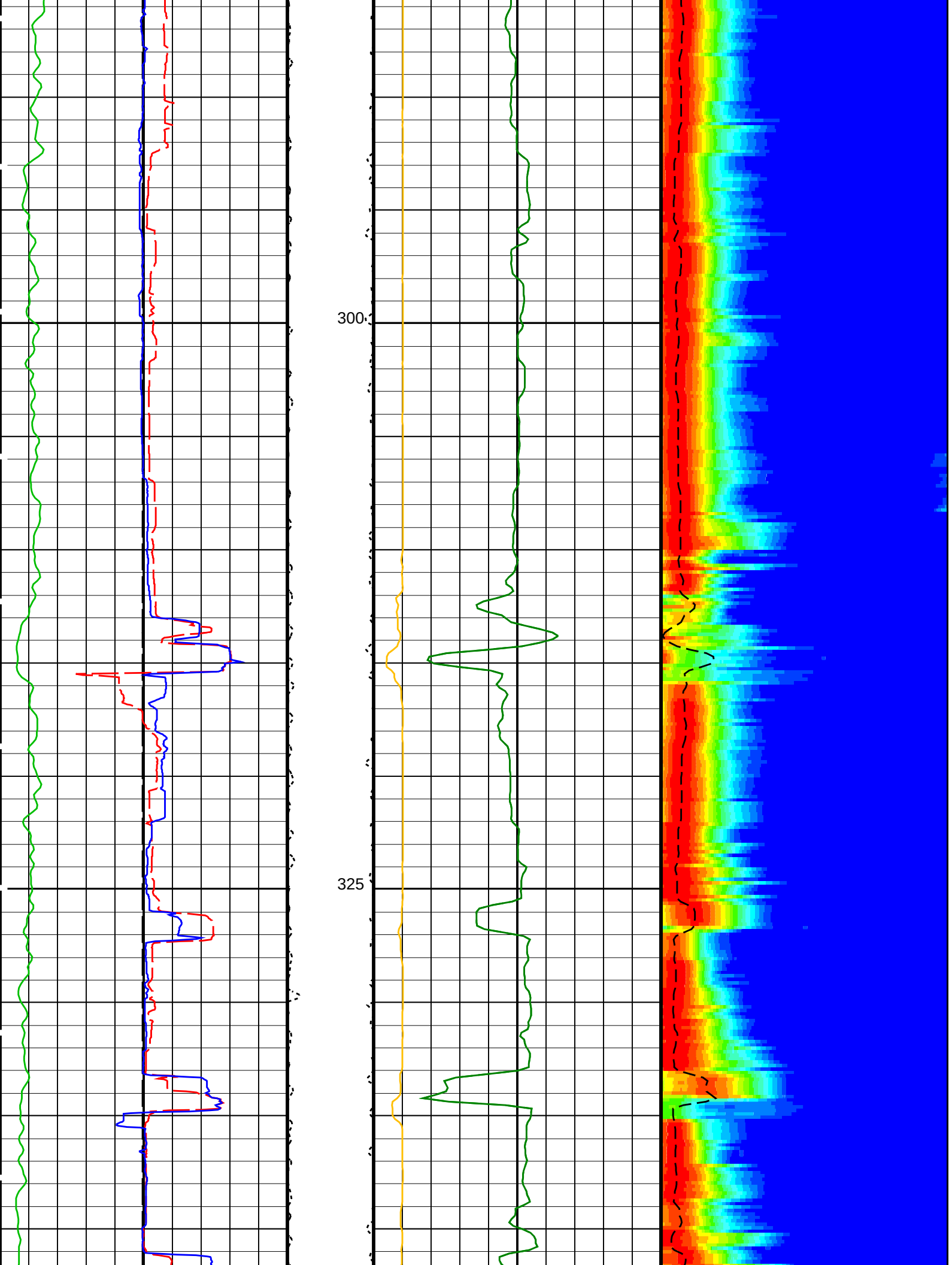
Peak Coherence / RA − Stoneley (CHR3)
0 (−−−−) 10

Min Amplitude Max
Rec.Array Stoneley Slow Proj. CVDL (SPR3)
180 (US/F) 1200

Delta−T Stoneley / RA (DT3R)
180 (US/F) 1200




250
275


300
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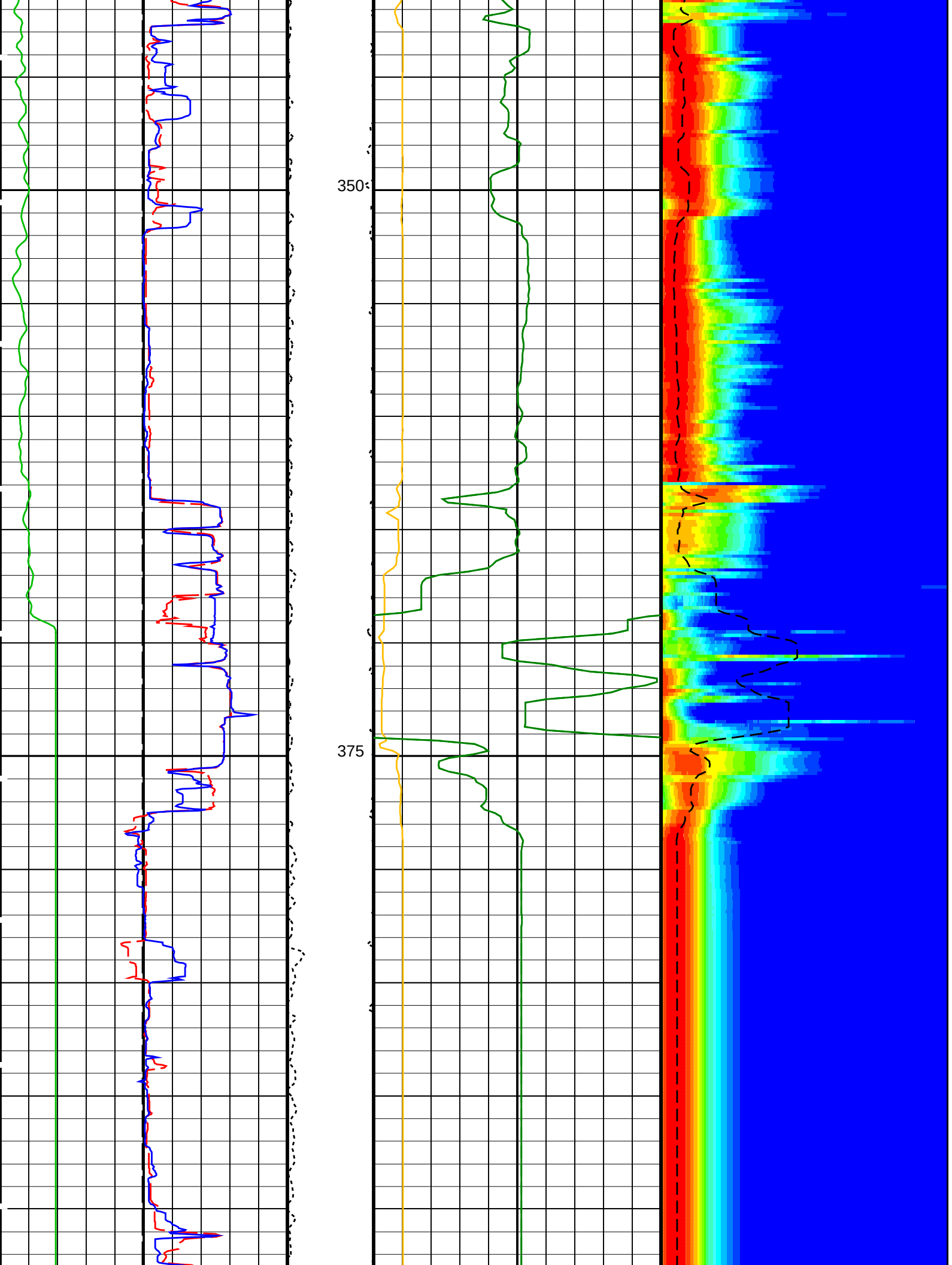
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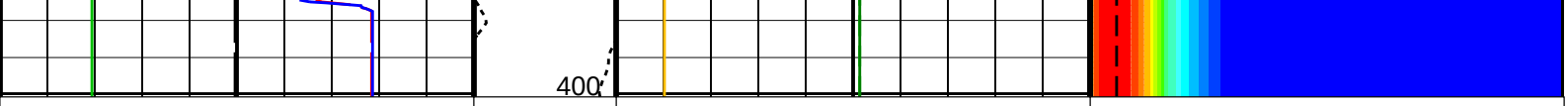


Bit Size (BS)	Tension (TENS)	Peak Coherence / RA − Stoneley (CHR3)	Delta−T Stoneley / RA (DT3R)
0 (IN) 20	0 (LBF) 5000	0 (−−−−) 10	180 (US/F) 1200

Caliper 1 (C1)	Delta−T Stoneley / RA (DT3R)	Min Amplitude Max
0 (IN) 20	440 (US/F) 40	Rec.Array Stoneley Slow Proj. CVDL (SPR3) 180 (US/F) 1200

Caliper 2 (C2)	Delta−T Stoneley (DTST)
0 (IN) 20	440 (US/F) 40

Gamma Ray (GR_EDTC)
0 (GAPI) 150

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM3	DSST Sonic Acquisition Mode 3 − Monopole Mode for Stoneley	EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status − Monopole Stoneley	255	
SBO3	STC Search Band Offset − Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth − Monopole Stoneley	6000	US
SFC3	STC Formation Character − Monopole Stoneley	SELECTABLE	
SFM3	STC Filter − Monopole Stoneley	B.5−1.5K	
SLL3	STC Slowness Lower Limit − Monopole Stoneley	180	US/F
SST3	STC Slowness Step − Monopole Stoneley	4	US/F
SSW3	STC Source Waveform − Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit − Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	1200	US/F
SUL3	STC Slowness Upper Limit − Monopole Stoneley	1200	US/F
SWD3	STC Slowness Width − Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill − Monopole Stoneley	0	US
TLL3	STC Time Lower Limit − Monopole Stoneley	620	US
TST3	STC Time Step − Monopole Stoneley	200	US
TUL3	STC Time Upper Limit − Monopole Stoneley	15800	US
TWD3	STC Time Width − Monopole Stoneley	2000	US
TWI3	STC Integration Time Window − Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−3140.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR **Vertical Scale: 1:200** **Graphics File Created: 13−Sep−2014 11:54**

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_014LUP	FN:13	PRODUCER	10−Sep−2014 16:30	3541.0 M	3330.9 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:36	PRODUCER	13−Sep−2014 11:54		
CUST	FMS_DSI_NGS_032PUC	FN:37	CUSTOMER	13−Sep−2014 11:54		

Schlumberger

Second Pass

MAXIS Field Log

Company: Lamont Doherty Earth Observatory **Well: Expedition 352, Site U1439C**

Input DLIS Files

DEFAULT	FMS_DSI_NGS_015LUP	FN:14	PRODUCER	10−Sep−2014 17:32	3534.2 M	3132.7 M

Output DLIS Files

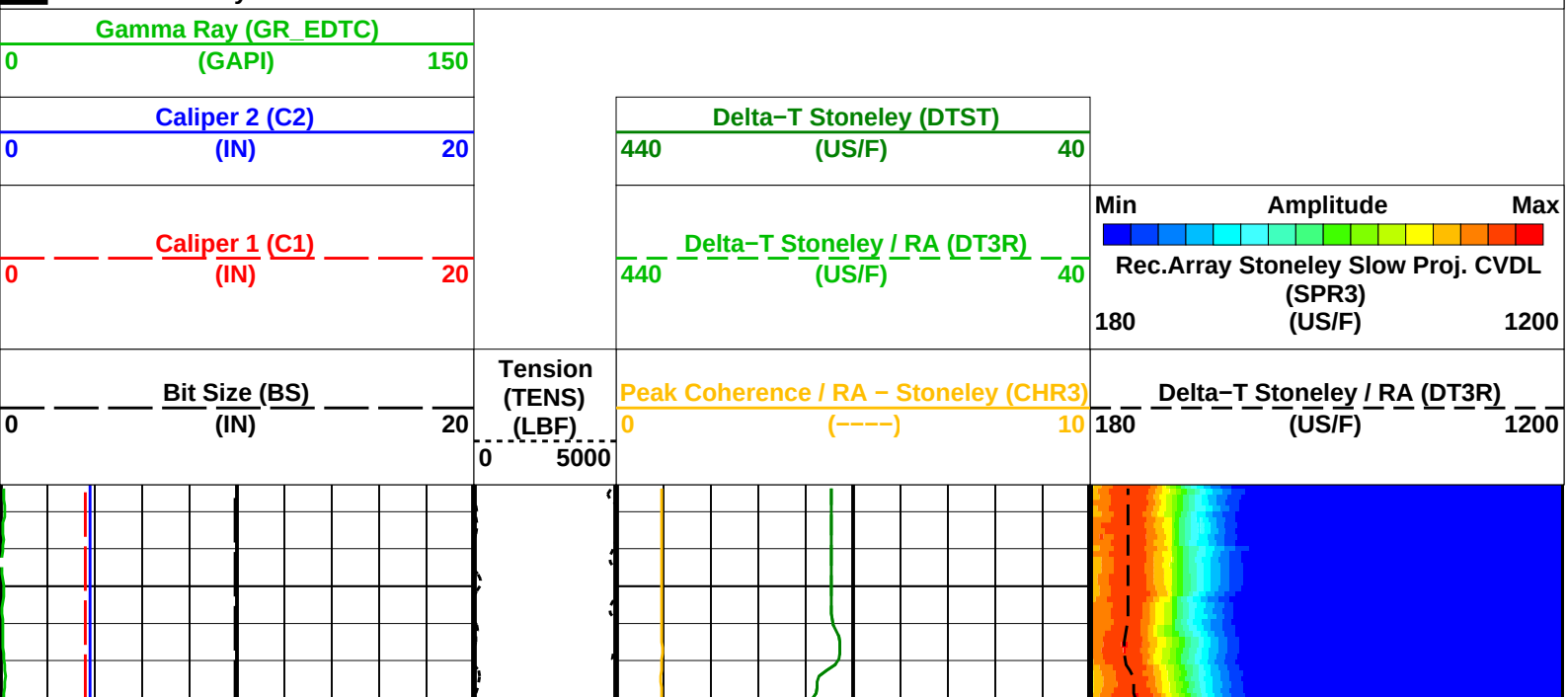
DEFAULT	FMS_DSI_NGS_030PUP	FN:33	PRODUCER	13−Sep−2014 11:46	394.0 M	−7.8 M
CUST	FMS_DSI_NGS_030PUC	FN:34	CUSTOMER	13−Sep−2014 11:46	394.0 M	−7.8 M

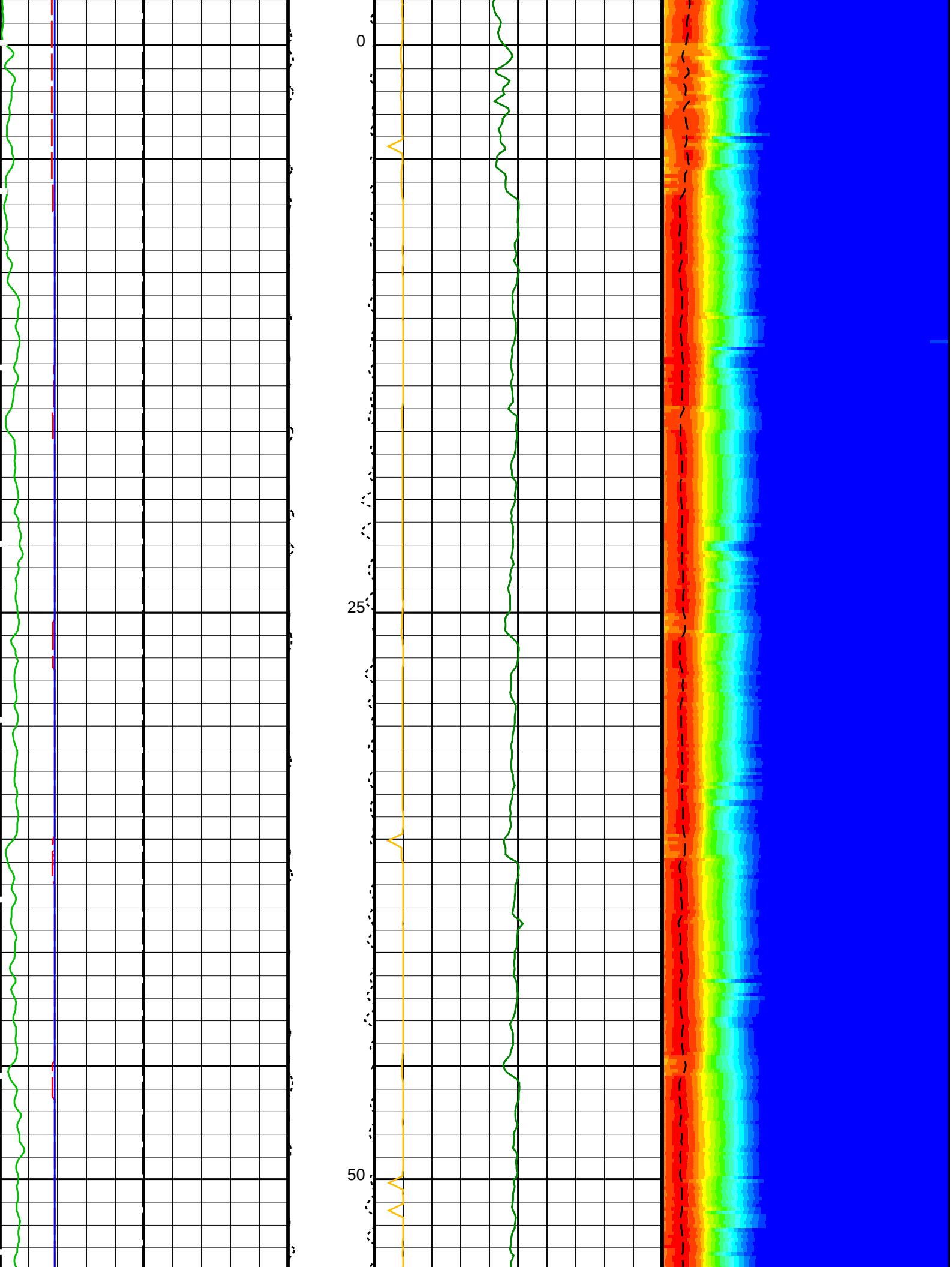
OP System Version: 19C0−187

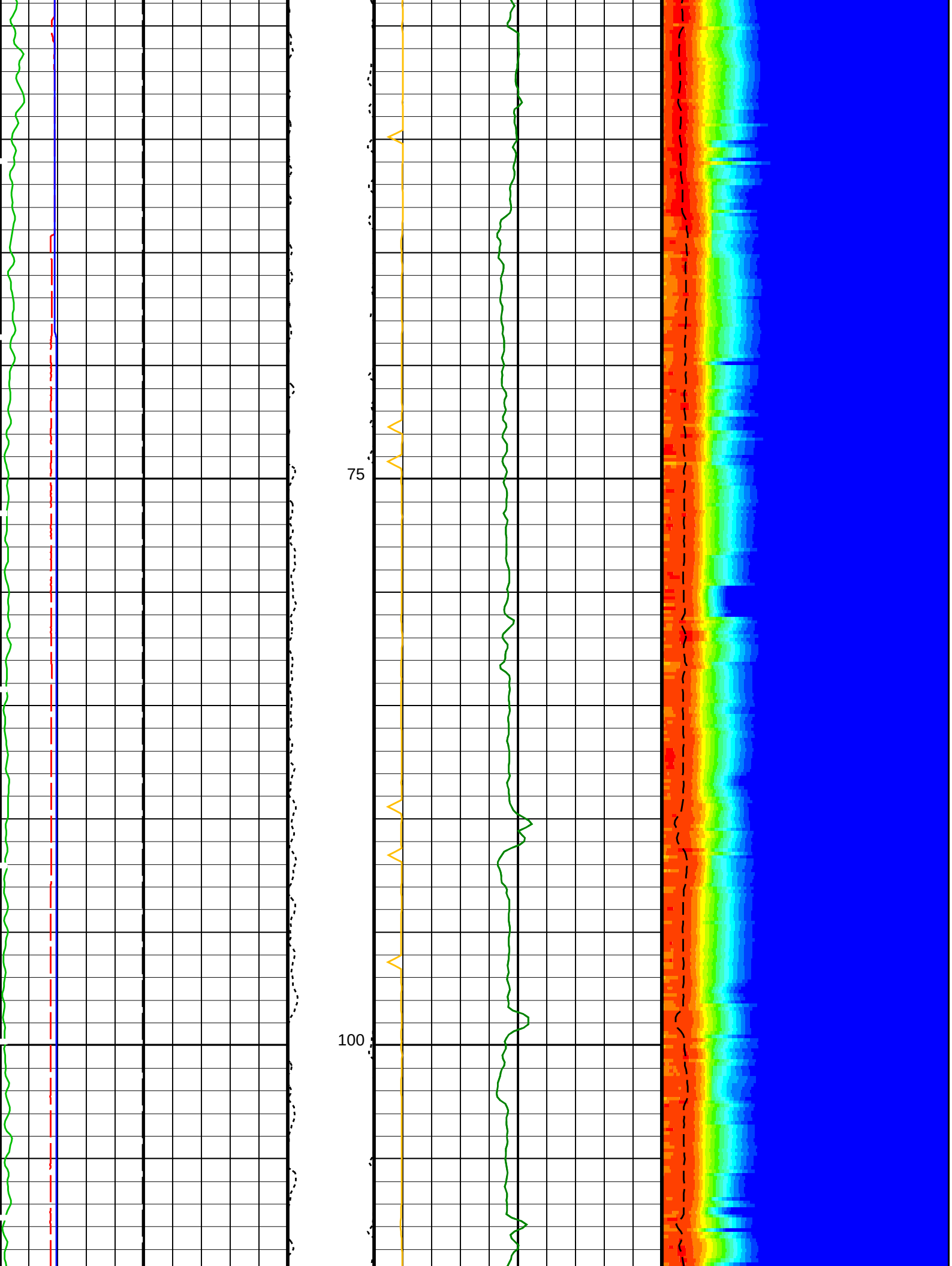
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

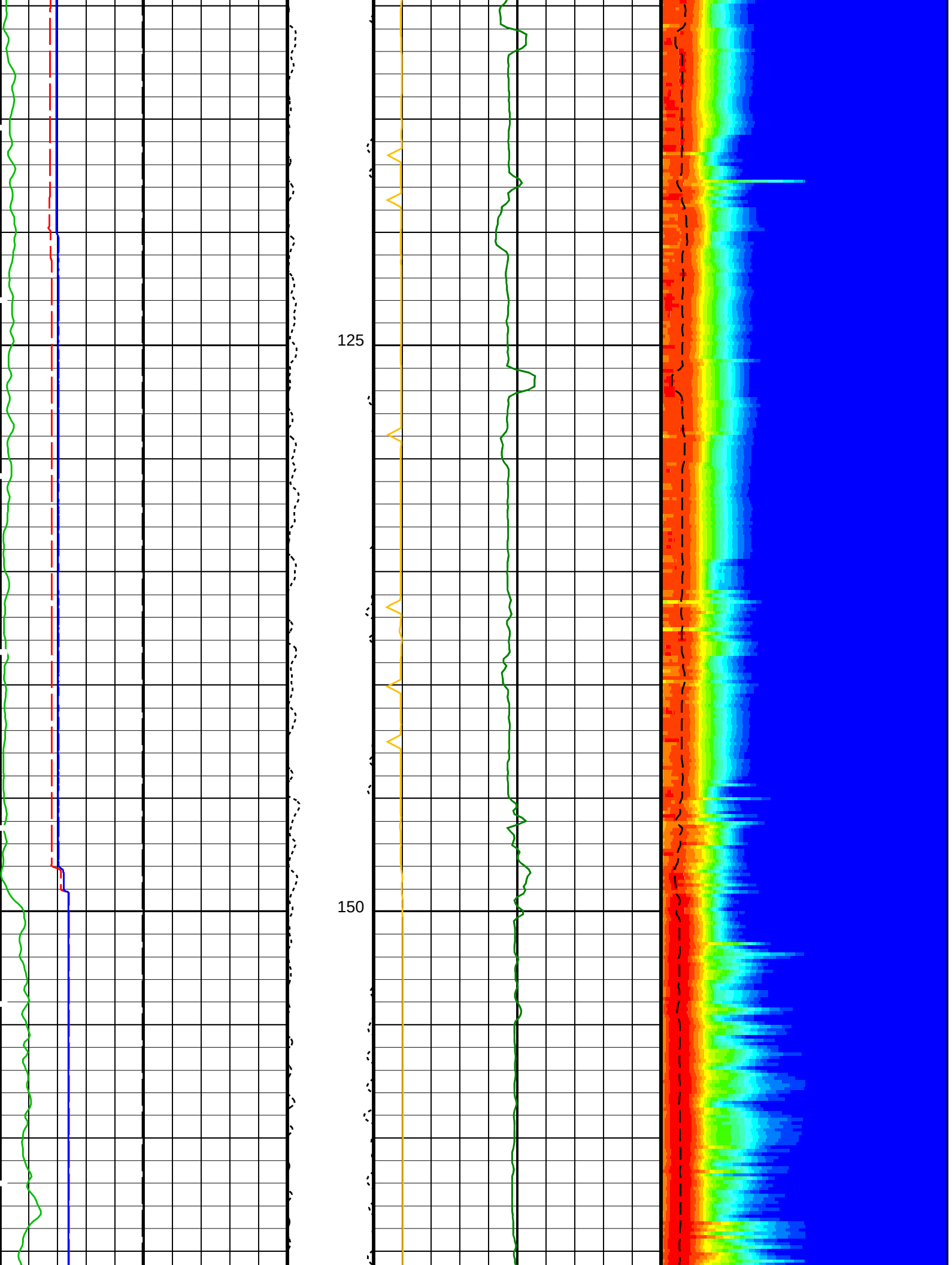
PIP SUMMARY

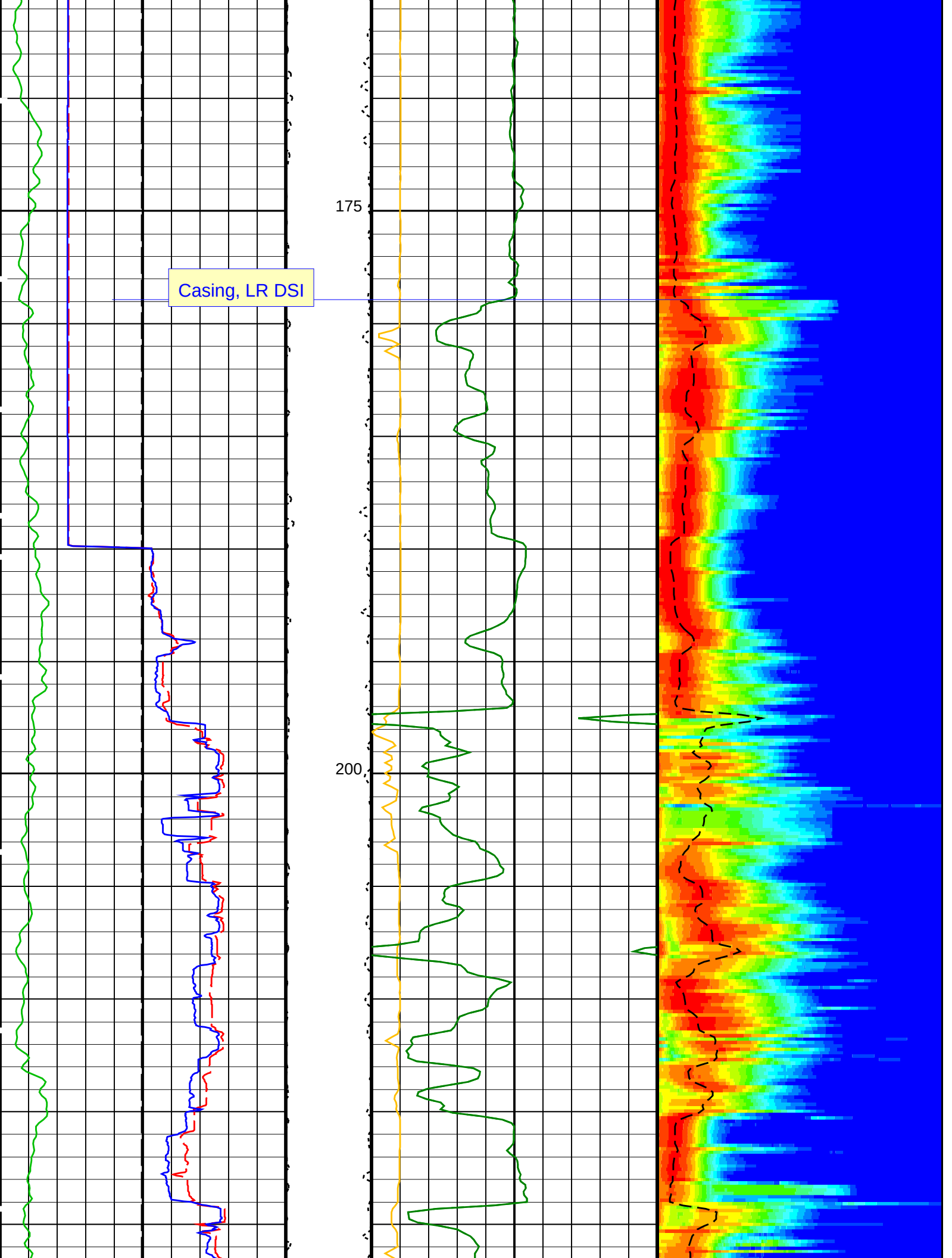
Time Mark Every 60 S

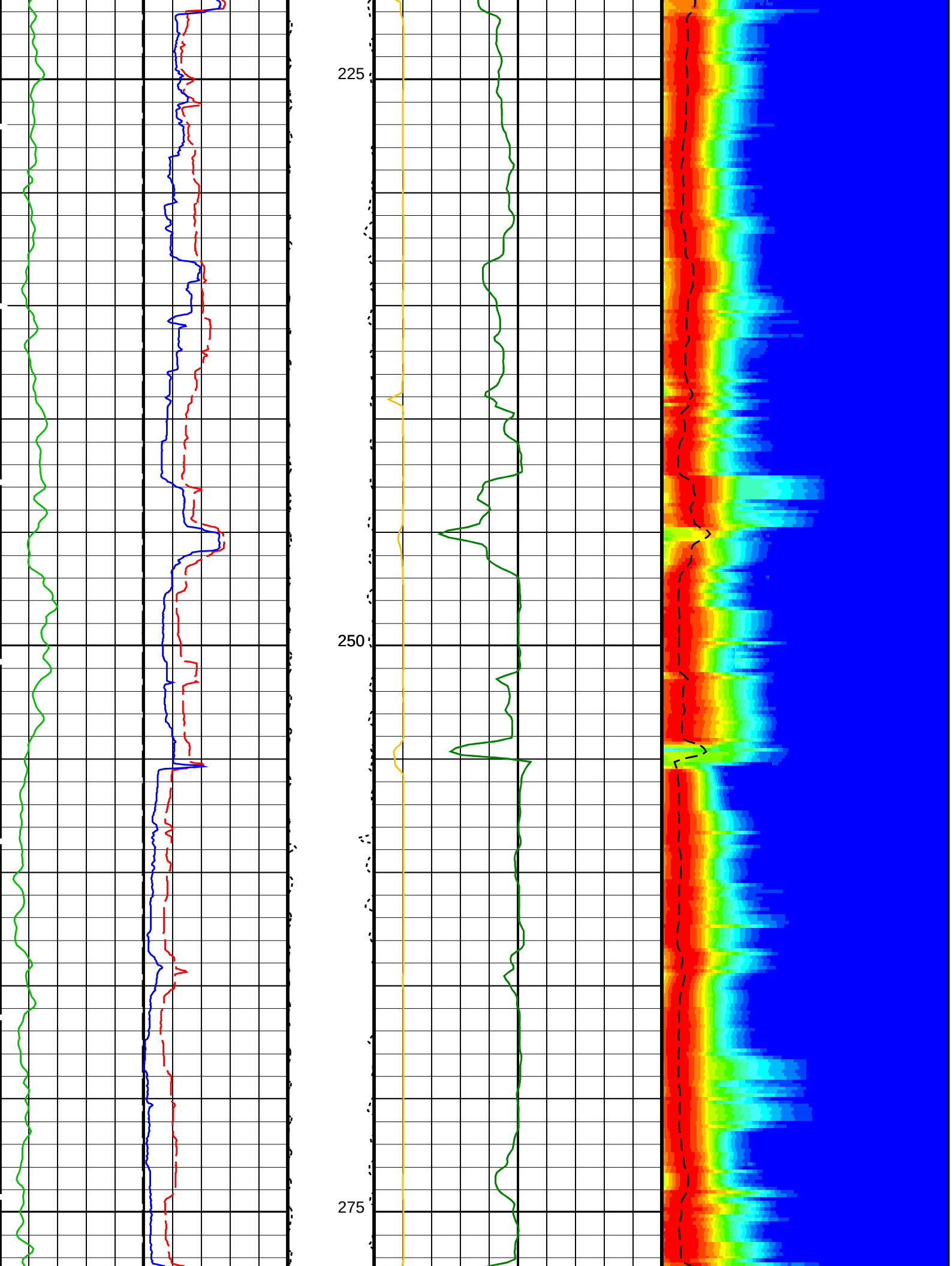


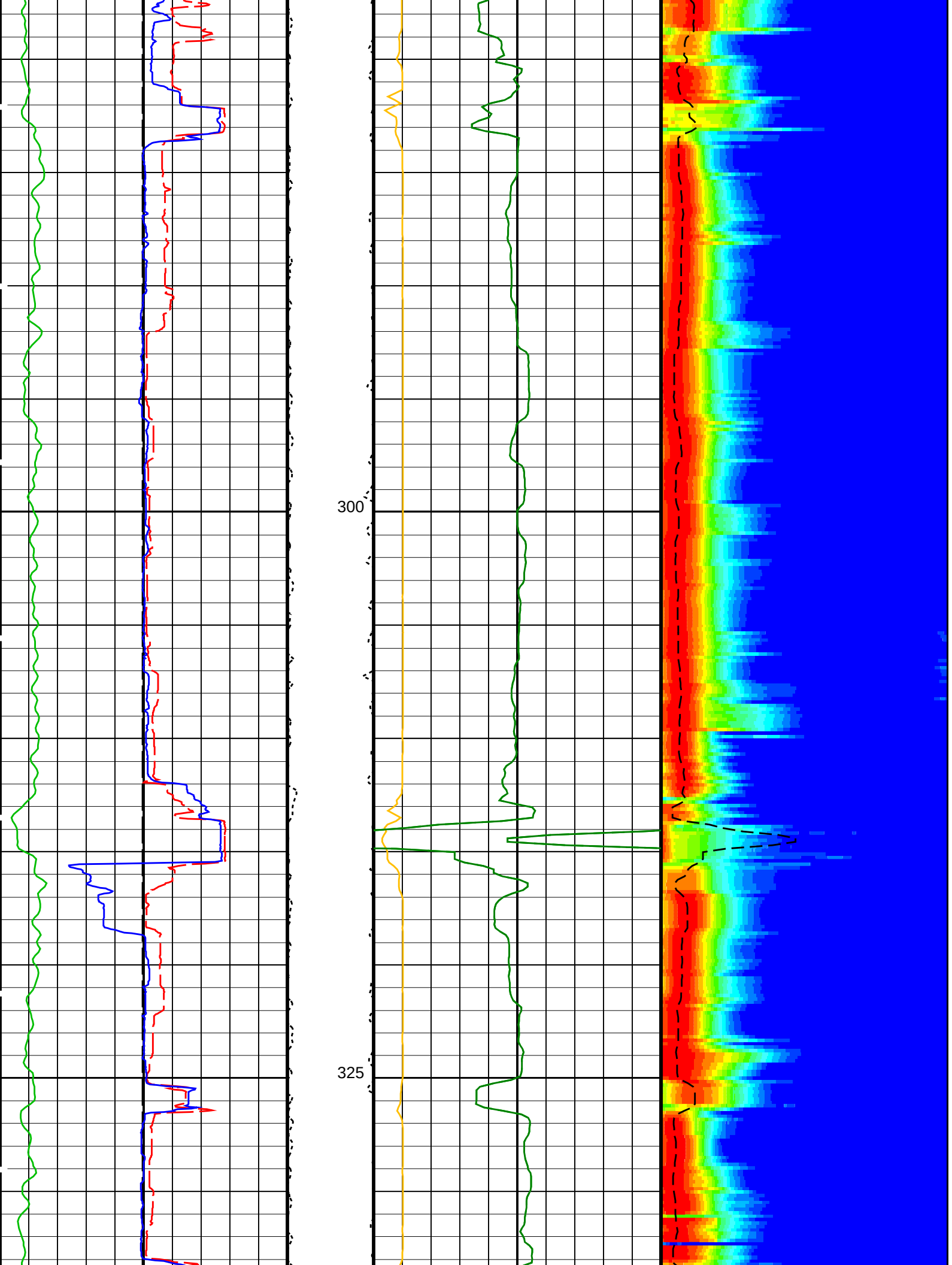

0
25
50

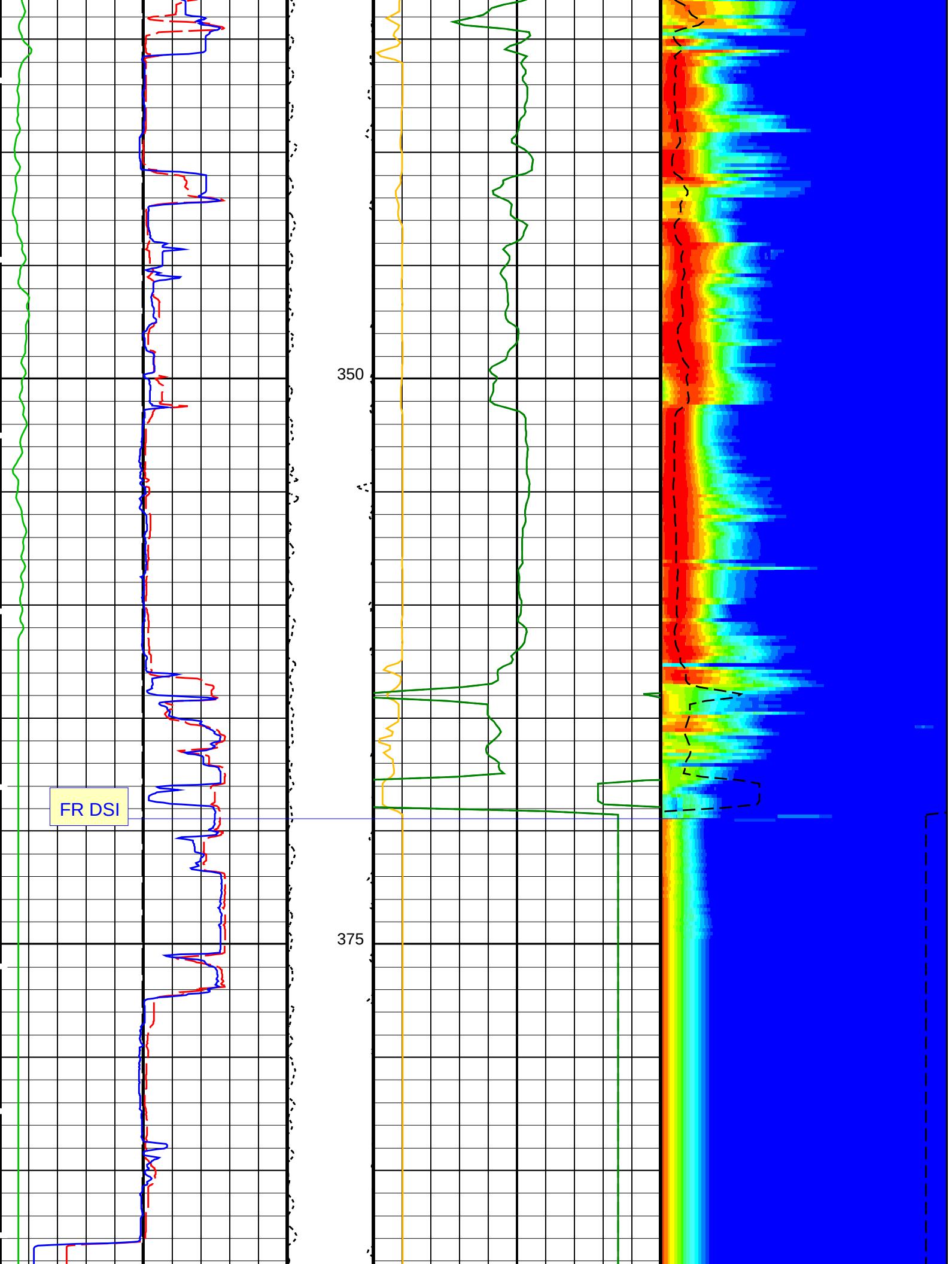

75
100

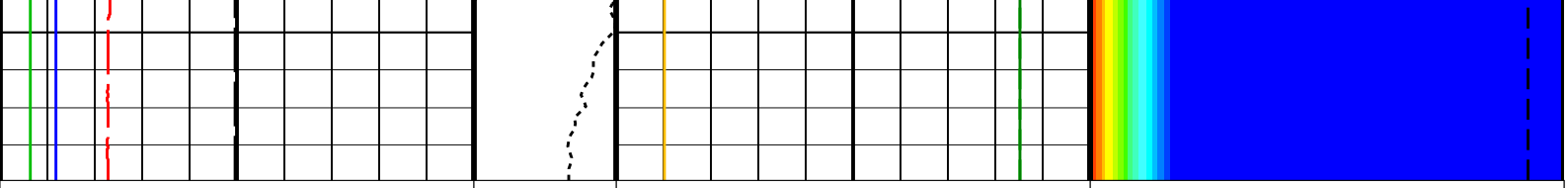

125
150


175
Casing, LR DSI
200


225
250
275


300
325


350
375
FR DSI



Bit Size (BS)	Tension (TENS)	Peak Coherence / RA − Stoneley (CHR3)	Delta−T Stoneley / RA (DT3R)
0 (IN) 20	0 (LBF) 5000	0 (−−−−) 10	180 (US/F) 1200

Caliper 1 (C1)	Delta−T Stoneley / RA (DT3R)	Min Amplitude Max
0 (IN) 20	440 (US/F) 40	Rec.Array Stoneley Slow Proj. CVDL (SPR3) 180 (US/F) 1200

Caliper 2 (C2)	Delta−T Stoneley (DTST)
0 (IN) 20	440 (US/F) 40

Gamma Ray (GR_EDTC)
0 (GAPI) 150

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM3	DSST Sonic Acquisition Mode 3 − Monopole Mode for Stoneley	EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status − Monopole Stoneley	255	
SBO3	STC Search Band Offset − Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth − Monopole Stoneley	6000	US
SFC3	STC Formation Character − Monopole Stoneley	SELECTABLE	
SFM3	STC Filter − Monopole Stoneley	B.5−1.5K	
SLL3	STC Slowness Lower Limit − Monopole Stoneley	180	US/F
SST3	STC Slowness Step − Monopole Stoneley	4	US/F
SSW3	STC Source Waveform − Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit − Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	1200	US/F
SUL3	STC Slowness Upper Limit − Monopole Stoneley	1200	US/F
SWD3	STC Slowness Width − Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill − Monopole Stoneley	0	US
TLL3	STC Time Lower Limit − Monopole Stoneley	620	US
TST3	STC Time Step − Monopole Stoneley	200	US
TUL3	STC Time Upper Limit − Monopole Stoneley	15800	US
TWD3	STC Time Width − Monopole Stoneley	2000	US
TWI3	STC Integration Time Window − Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−3140.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 13−Sep−2014 11:46

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_015LUP**	**FN:14**	**PRODUCER**	**10−Sep−2014 17:32**	**3534.2 M**	**3132.7 M**

Output DLIS Files

DEFAULT	**FMS_DSI_NGS_030PUP**	**FN:33**	**PRODUCER**	**13−Sep−2014 11:46**
CUST	**FMS_DSI_NGS_030PUC**	**FN:34**	**CUSTOMER**	**13−Sep−2014 11:46**

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 3−Feb−2014 22:22							
Caliper 1 Zero Measurement	12.00	N/A	11.98	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.05	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.18	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.38	N/A	N/A	N/A	IN
Micro Electrical Scanner − B (Slim) Wellsite Calibration − CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 10−Sep−2014 13:31							
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: 10−Sep−2014 13:31							
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: 15−Jul−2014 0:16 Before: 10−Sep−2014 5:25 After: 10−Sep−2014 12:33							
Na 511 Peak Loc	40.00	39.57	39.68	39.65	−0.03246	1.000	
Na 511 Peak Res	15.50	15.78	15.43	16.28	0.8468	2.000	%
High Voltage	1150	1197	1191	1190	−0.5679	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.1	142.1	0.9476	7.000	
Na 1785 Peak Res	8.500	9.334	8.905	10.17	1.268	2.000	%
Temperature	15.50	37.42	37.89	35.24	−2.653	N/A	DEGC
Na Count Rate	45.00	10.91	10.10	10.29	0.1856	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check							
Master: 15−Jul−2014 0:16 Before: 10−Sep−2014 5:25 After: 10−Sep−2014 12:33							
Na 511 Peak Loc	40.00	39.46	39.41	39.85	0.4358	1.000	
Na 511 Peak Res	15.50	16.20	16.64	17.55	0.9115	2.000	%
High Voltage	1150	1129	1124	1126	1.411	N/A	V
Na 1785 Peak Loc	142.6	141.8	140.8	141.3	0.5435	7.000	
Na 1785 Peak Res	8.500	10.06	9.432	11.49	2.058	2.000	%
Temperature	15.50	38.37	37.88	37.14	−0.7413	N/A	DEGC
Na Count Rate	45.00	11.54	10.45	10.53	0.08277	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2
Master: 15−Jul−2014 0:16 Before: 10−Sep−2014 5:25 After: 10−Sep−2014 12:33

Coincidence Count Rate Ratio	1.000	0.9495	0.9679	0.9719	0.004018	0.05000	

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration
Before: 10−Sep−2014 5:15

EDTC Z−Axis Acceleration	9.810	N/A	9.751	N/A	N/A	N/A	M/S2

Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration
Before: 10−Sep−2014 5:17 After: 10−Sep−2014 12:30

Gamma Ray (Jig − Bkg)	160.2	N/A	160.2	158.0	−2.210	14.56	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	162.7	−2.276	15.00	GAPI

Micro Electrical Scanner − B (Slim) / Equipment Identification

Primary Equipment:		
MEST Sonde − B	MEDS − B	724
MEST Preamplifier Cartridge − AB	MEPC − AB	807
GPIT Cartridge − AC	GPIC − AC	840
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		39.57
Before		39.68
After		39.65
37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		15.78
Before		15.43
After		16.28
12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)

Phase	High Voltage V	Value
Master		1197
Before		1191
After		1190
900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		142.4
Before		141.1
After		142.1
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		9.334
Before		8.905
After		10.17
7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		37.42
Before		37.89
After		35.24
−28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		10.91
Before		10.10
After		10.29

	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 15−Jul−2014 0:16 Before: 10−Sep−2014 5:25 After: 10−Sep−2014 12:33

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.46
Before		39.41
After		39.85
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		16.20
Before		16.64
After		17.55
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1129
Before		1124
After		1126
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		141.8
Before		140.8
After		141.3
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		10.06
Before		9.432
After	EXCEEDS LIMIT	11.49
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		38.37
Before		37.88
After		37.14
	−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		11.54
Before		10.45
After		10.53
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 15−Jul−2014 0:16 Before: 10−Sep−2014 5:25 After: 10−Sep−2014 12:33

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master	EXCEEDS LIMIT	0.9495
Before		0.9679
After		0.9719
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 15−Jul−2014 0:16
Before: 10−Sep−2014 5:25
After: 10−Sep−2014 12:33

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector	EDTG − A/B	8305
Enhanced DTS Cartridge	EDTC − B	8317

Auxiliary Equipment:

EDTC Housing	EDTH − B	8303

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z−Axis Acceleration M/S2	Value
Before		9.751
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 10−Sep−2014 5:15

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value
Before		4.601
After		6.182
	0 30.00 120.0	

Phase	Gamma Ray (Jig − Bkg) GAPI	Value
Before		160.2
After		158.0
	145.6 160.2 174.8	

Phase	Gamma Ray (Calibrated) GAPI	Value
Before		165.0
After		162.7
	150.0 165.0 180.0	

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
Before: 10−Sep−2014 5:17			After: 10−Sep−2014 12:30					

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 352, Site U1439C**
Field: **IBM−3 Forearc**
Rig: **JOIDES Resolution**
Country:

DSI Dipole Sonic Imager
Stoneley