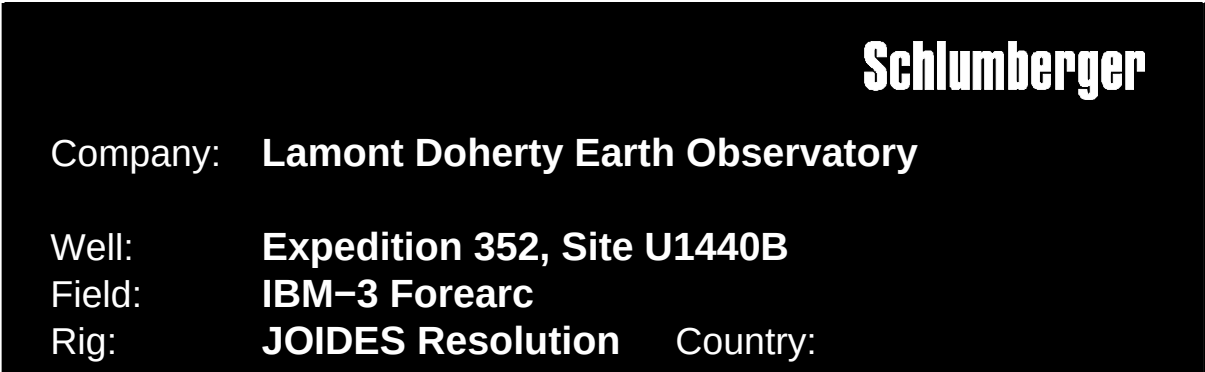


Rig: **JOIDES Resolution** Country:

Rig:	JOIDES Resolution	DSI Dipole Sonic Imager Stoneley			
Field:	IBM-3 Forcarr				
Location:	Latitude: N 28.44996*				
Well:	Expedition 352, Site U1440B				
Company:	Lamont Doherty Earth Observatory	LOCATION	Latitude: N 28.44996*		Elev.: K.B. -4785.80 m
			Longitude: E 142.75374*		G.L. 0.00 m
					D.F. -4785.80 m
			Permanent Datum: Sea Floor		Elev.: 0.00 m
		Log Measured From: Drill Floor		0.00 m above Perm. Datum	
		Drilling Measured From: Drill Floor			
	Ocean: Pacific	Max. Well Deviation 0 deg		Longitude E 142.75374	Latitude N 28.44996

Logging Date			25-Aug-2014					
Run Number			2					
Depth Driller			383.6 m					
Schlumberger Depth			239.5 m					
Bottom Log Interval			219.8 m					
Top Log Interval			97 m					
Casing Driller Size @ Depth			10.750 in @ 98.2 m			@		
Casing Schlumberger			97 m					
Bit Size			9.875 in					
Type Fluid In Hole			Seawater					
MUD	Density	Viscosity	1.03 g/cm3					
	Fluid Loss	PH						
	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	25-Aug-2014		14:00			
Logger On Bottom		Time	25-Aug-2014		14:00			
Unit Number		Location	627314 Houston					
Recorded By			C. Furman					
Witnessed By			S. Morgan					

[illegible]

Run 3	Run 4

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: HNGS
OS2: FMS
OS3: UBI
OS4: HRLA / HLDS

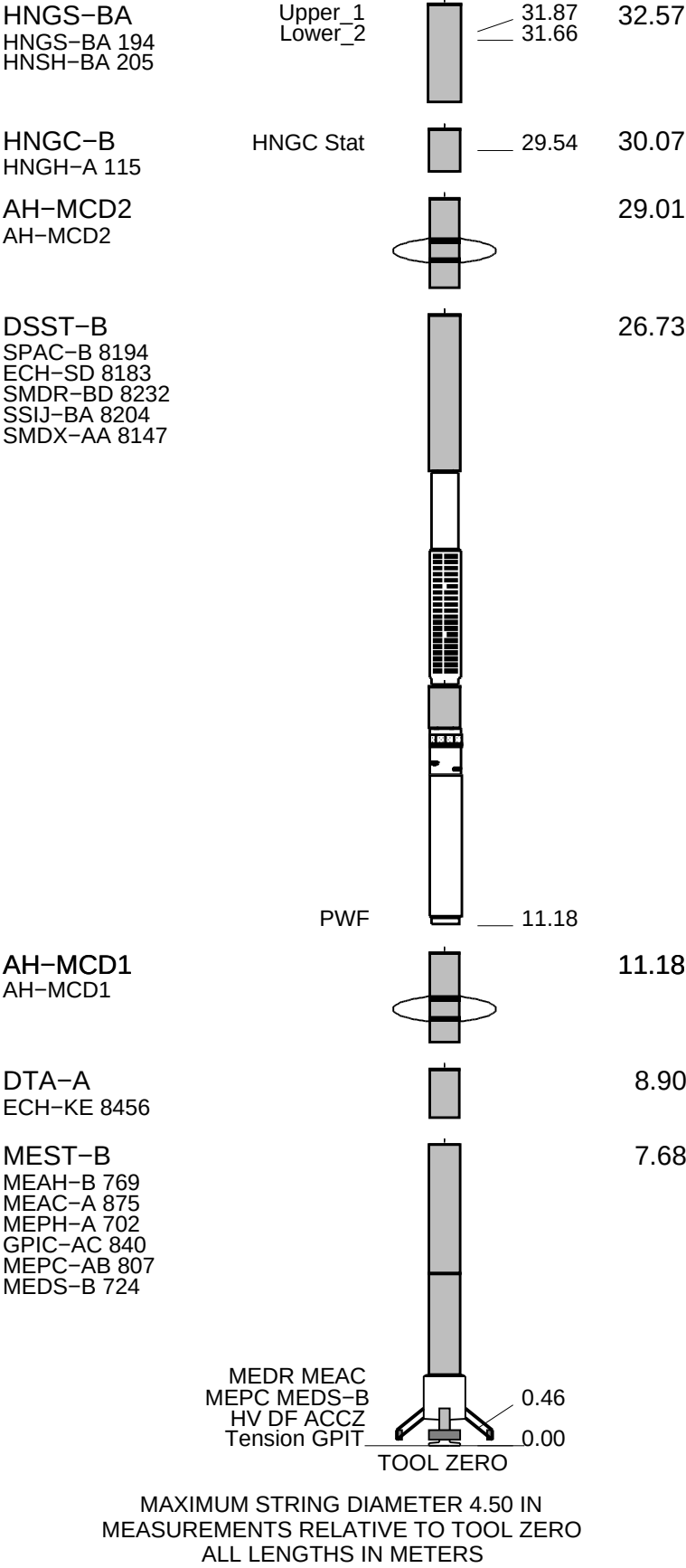
Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8 " BS
Re-entry system and 10-3/4 in. casing deployed with casing shoe at 98.2mbsf.
Bit placed at 96.95mbsf (driller's depth) prior to logging.
Hole remained filled with sea water, as drilled, for logging.
Tools run as per tool sketch with modified MCDs centralizing the entire string.
FMS caliper open from TD to 107mbsf; FMS deactivated upon caliper close at 107mbsf to facilitate pipe entry.
DSI run with the following four modes active:
– Upper Dipole (Low Frequency)
– Lower Dipole (Standard Frequency)
– P&S (Standard Frequency)
– Stoneley (Standard Frequency)
Maximum depth reached was 239.5mbsf due to borehole conditions; main logs recorded from that depth.
Casing shoe appears to be at 97.0mbsf on logs due to high tension just below casing caused by narrow hole; actual shoe is 98.2m
Logs originally recorded from drill floor but played back to reference sea floor for compatibility with core data.

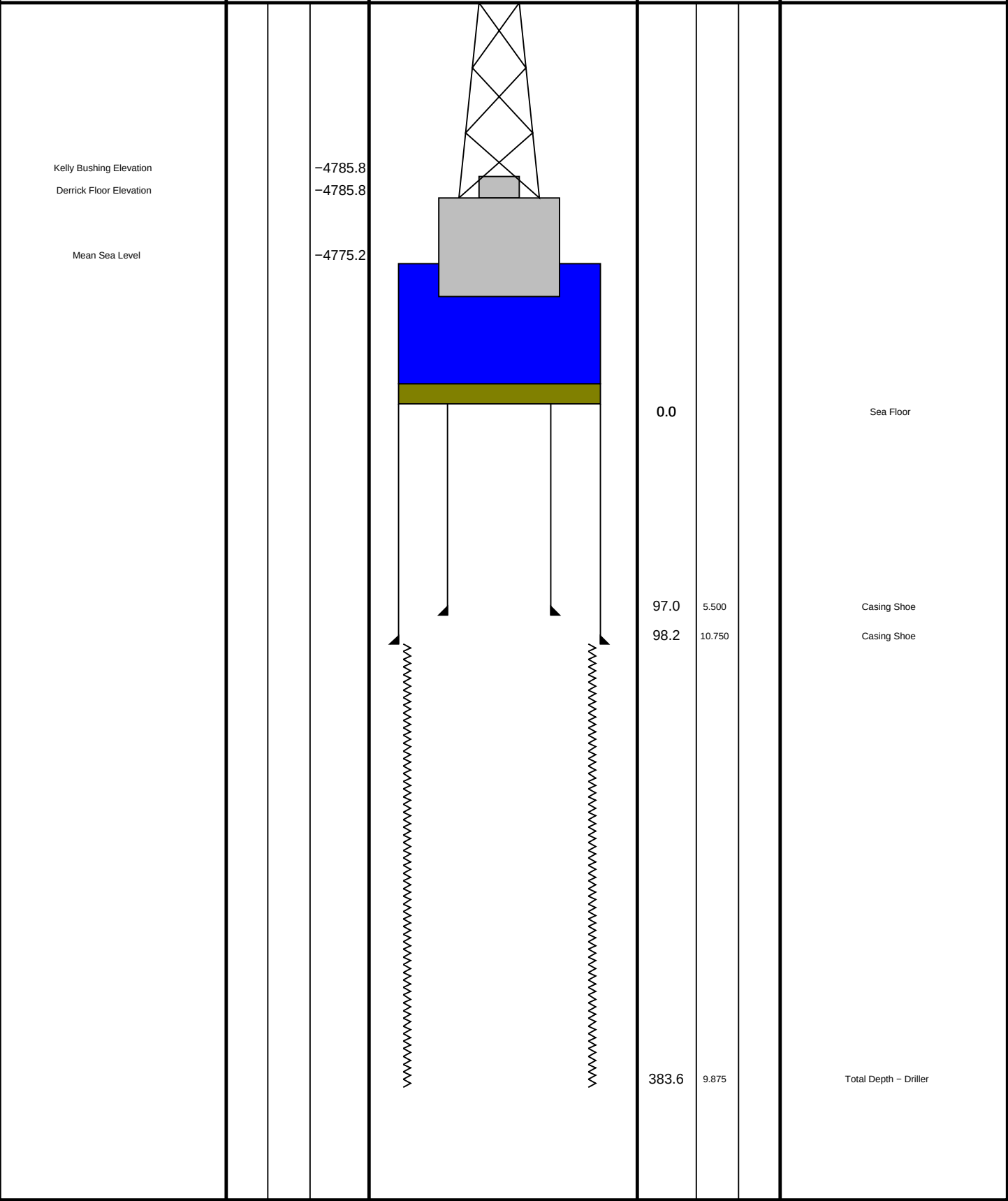
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
19C0-187					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

RUN 1 RUN 2

GSR-U 616008
WITM (EDTS)-A

LEH-QT	MDSB_EDTC		34.55	35.44
LEH-QT 301	Mud Tempe		33.49	
EDTC-B	CTEM		32.92	34.55
EDTH-B 8303	Gamma Ray			
EDTC-B 8303	EFTB DIAG			
EDTC-B 8317	TelStatus			
EDTG-A/B 8305	EDTCB Ele		32.57	







Downlog

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 352, Site U1440B

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_027LUP	PRODUCER	29-Aug-2014 06:56	4998.5 M	4716.0 M
---------	-------------------------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:39	PRODUCER	29-Aug-2014 08:21	215.3 M	-67.1 M
CUST	FMS_DSI_NGS_032PUC	FN:40	CUSTOMER	29-Aug-2014 08:21	215.3 M	-67.1 M

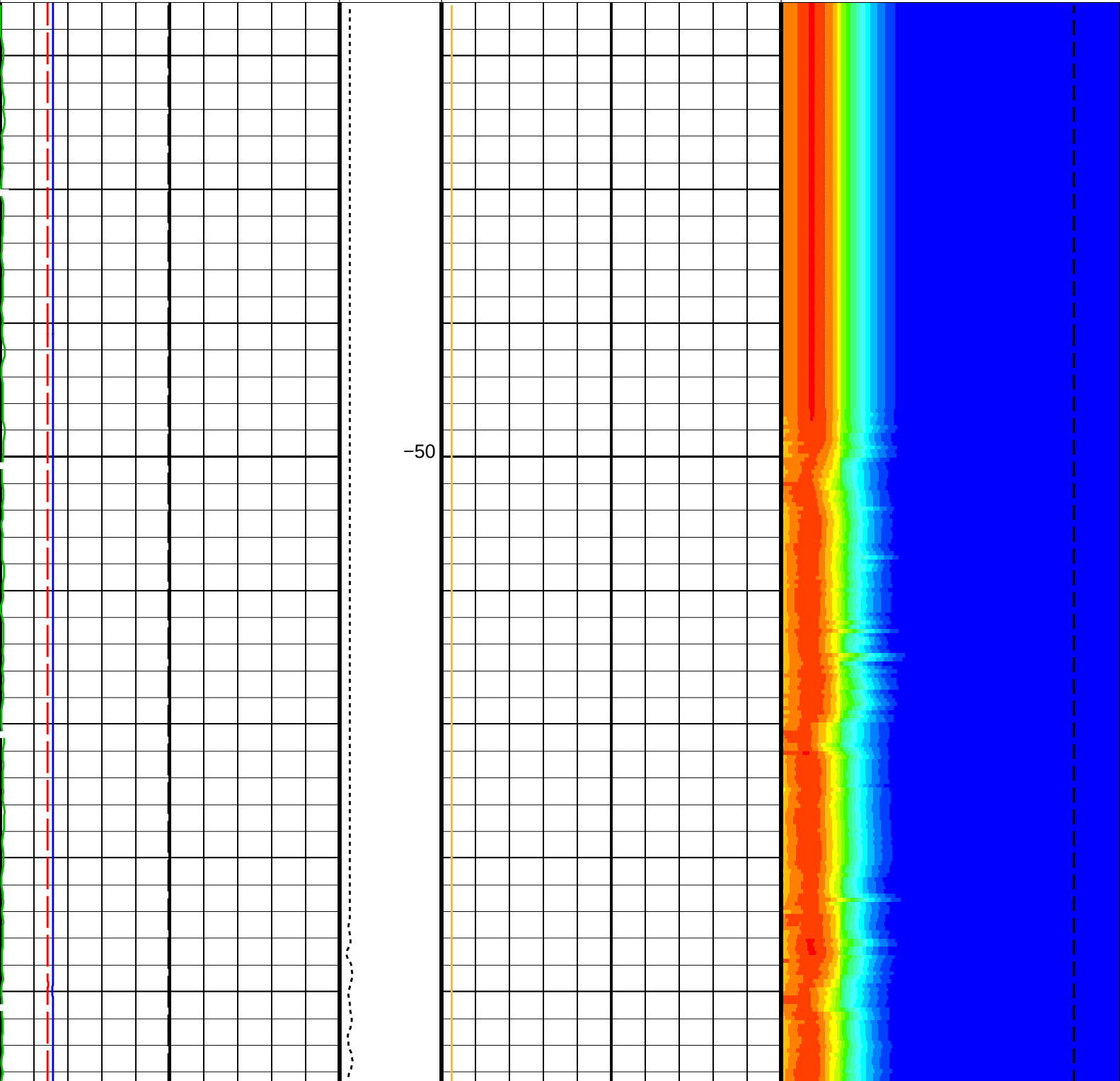
OP System Version: 19C0-187

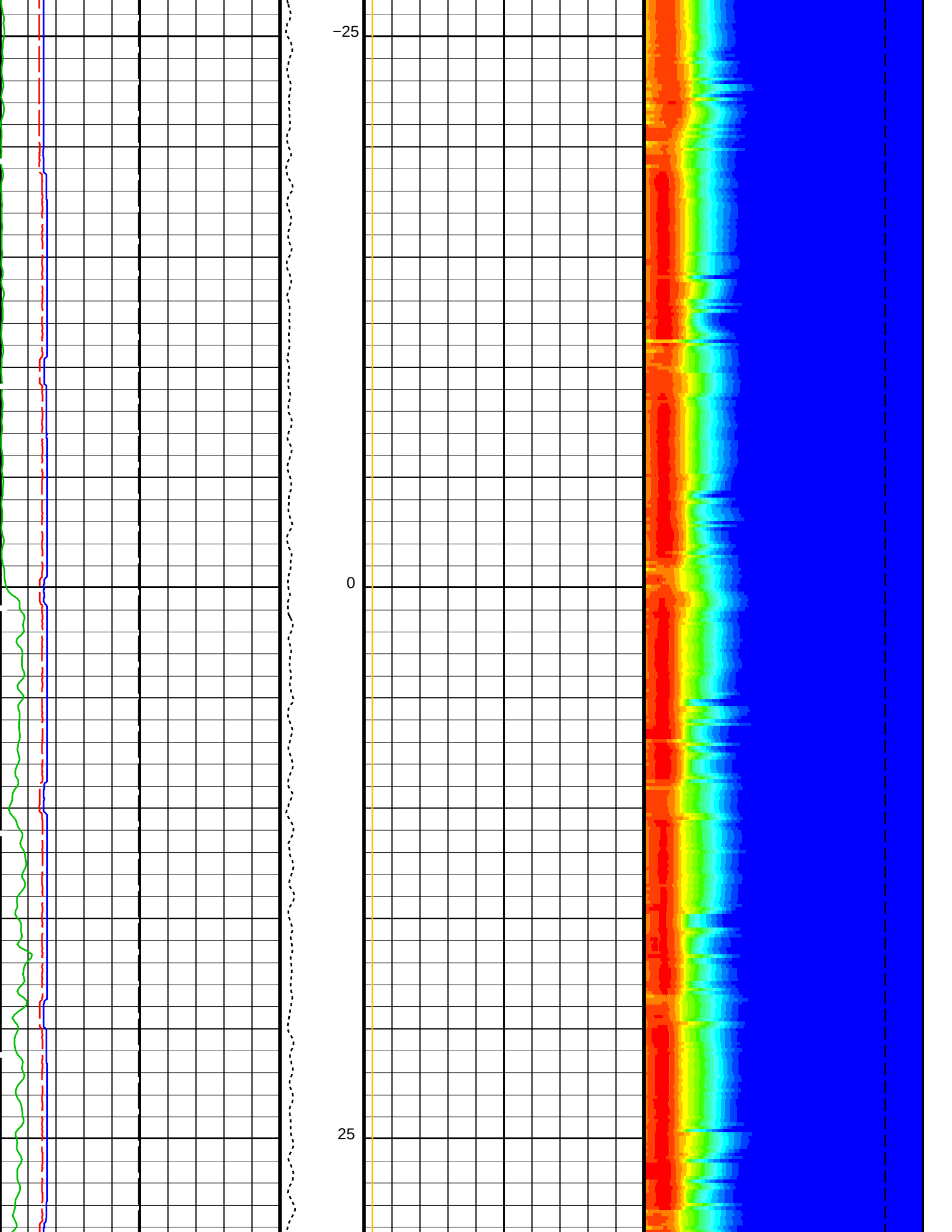
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

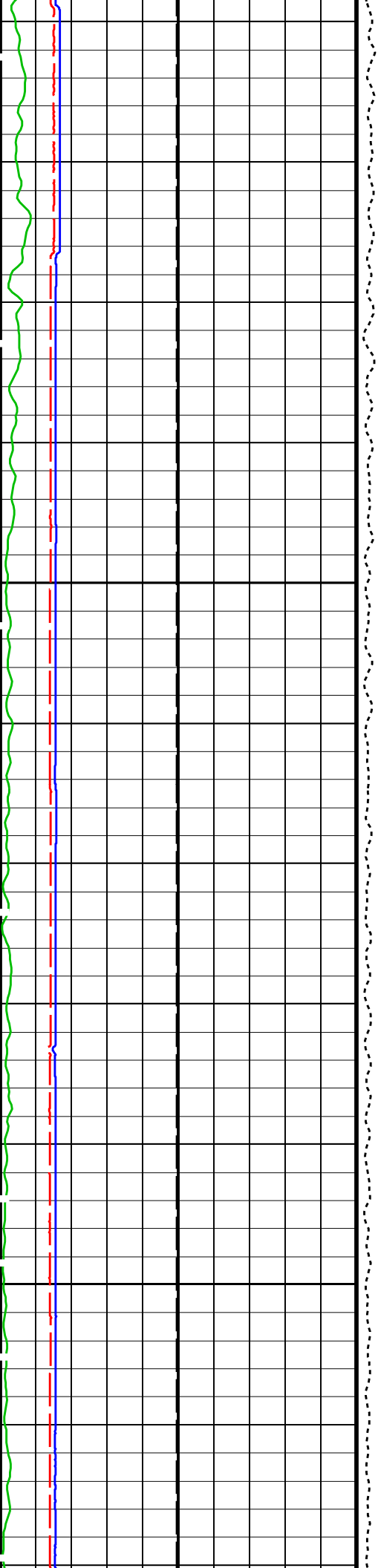
PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR_EDTC) (GAPI) 0 150		Delta-T Stoneley (DTST) (US/F) 440 40	
Caliper 2 (C2) (IN) 0 20		Delta-T Stoneley / RA (DT3R) (US/F) 440 40	
Caliper 1 (C1) (IN) 0 20		Rec.Array Stoneley Slow Proj. CVDL (SPR3) (US/F) 180 1200	
Bit Size (BS) (IN) 0 20		Peak Coherence / RA - Stoneley (CHR3) (-----) 0 10	
Tension (TENS) (LBF) 0 5000		Delta-T Stoneley / RA (DT3R) (US/F) 180 1200	

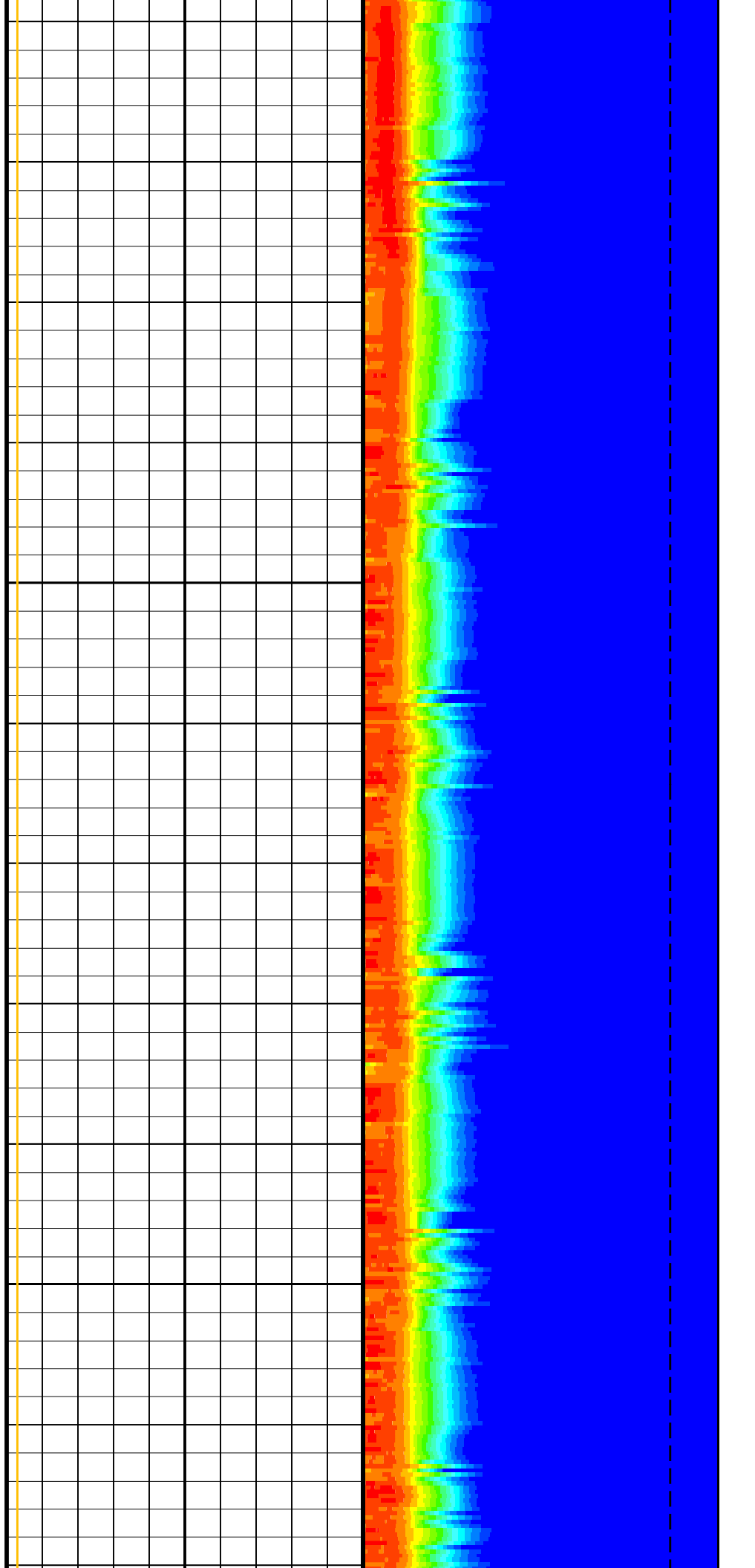


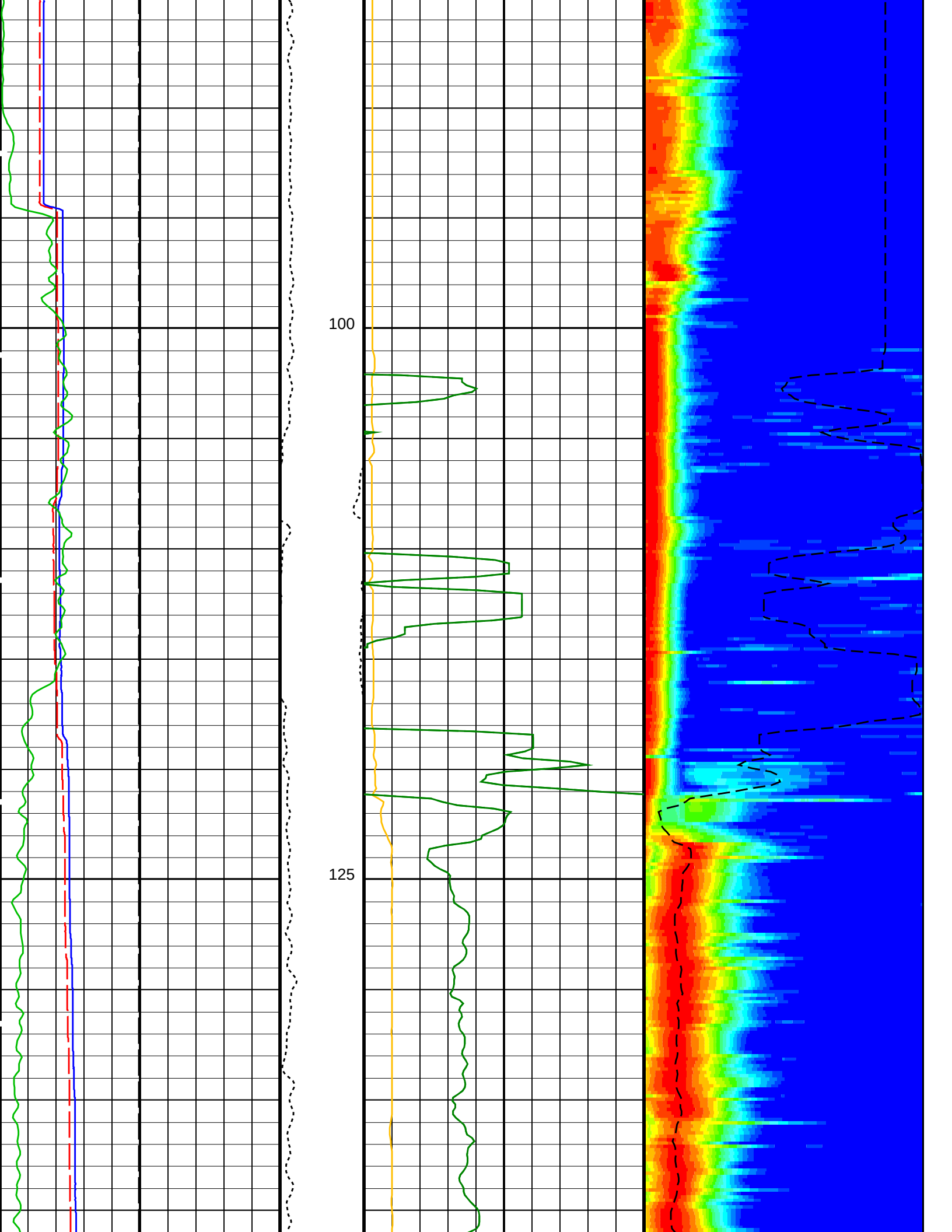


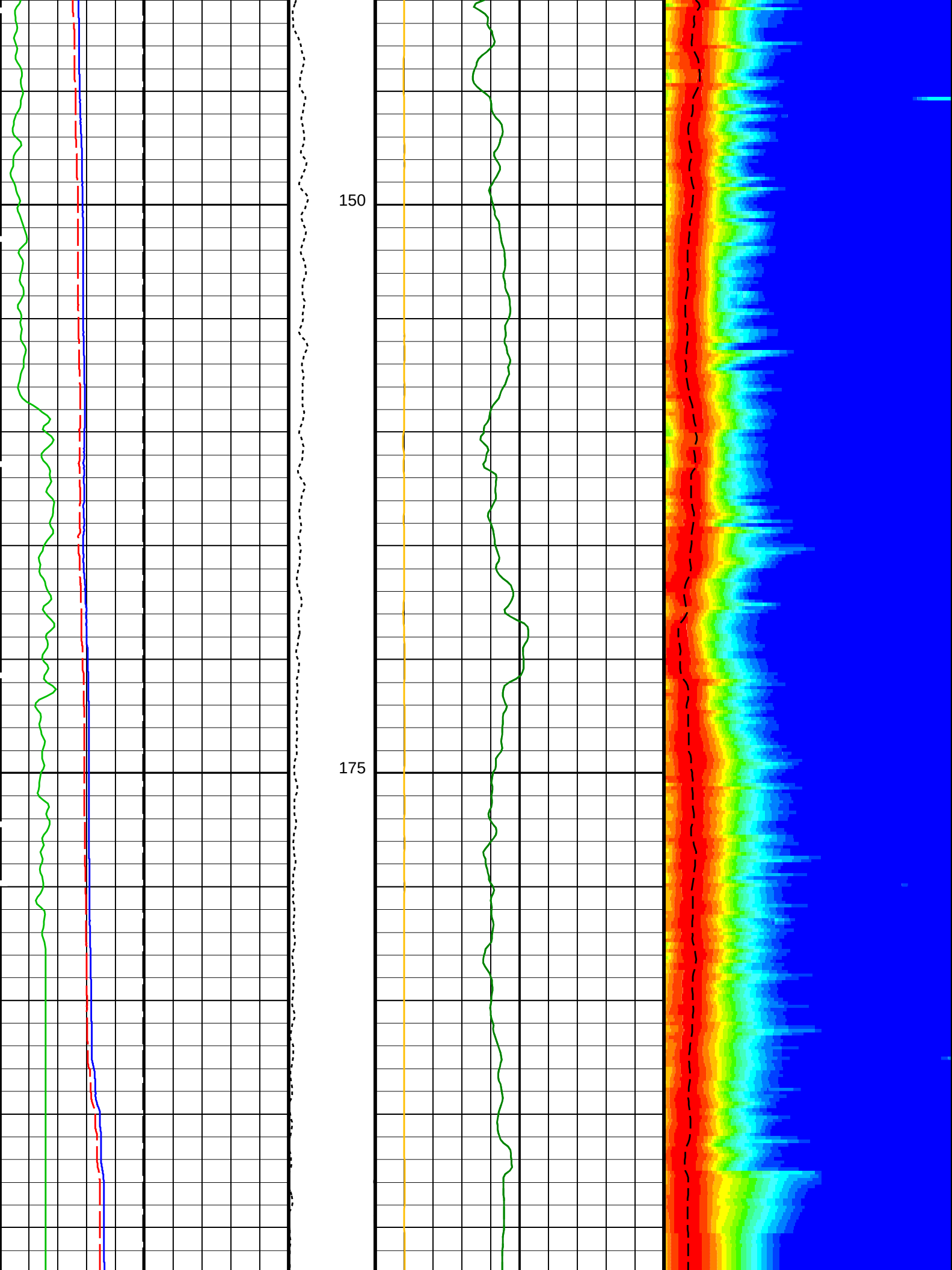


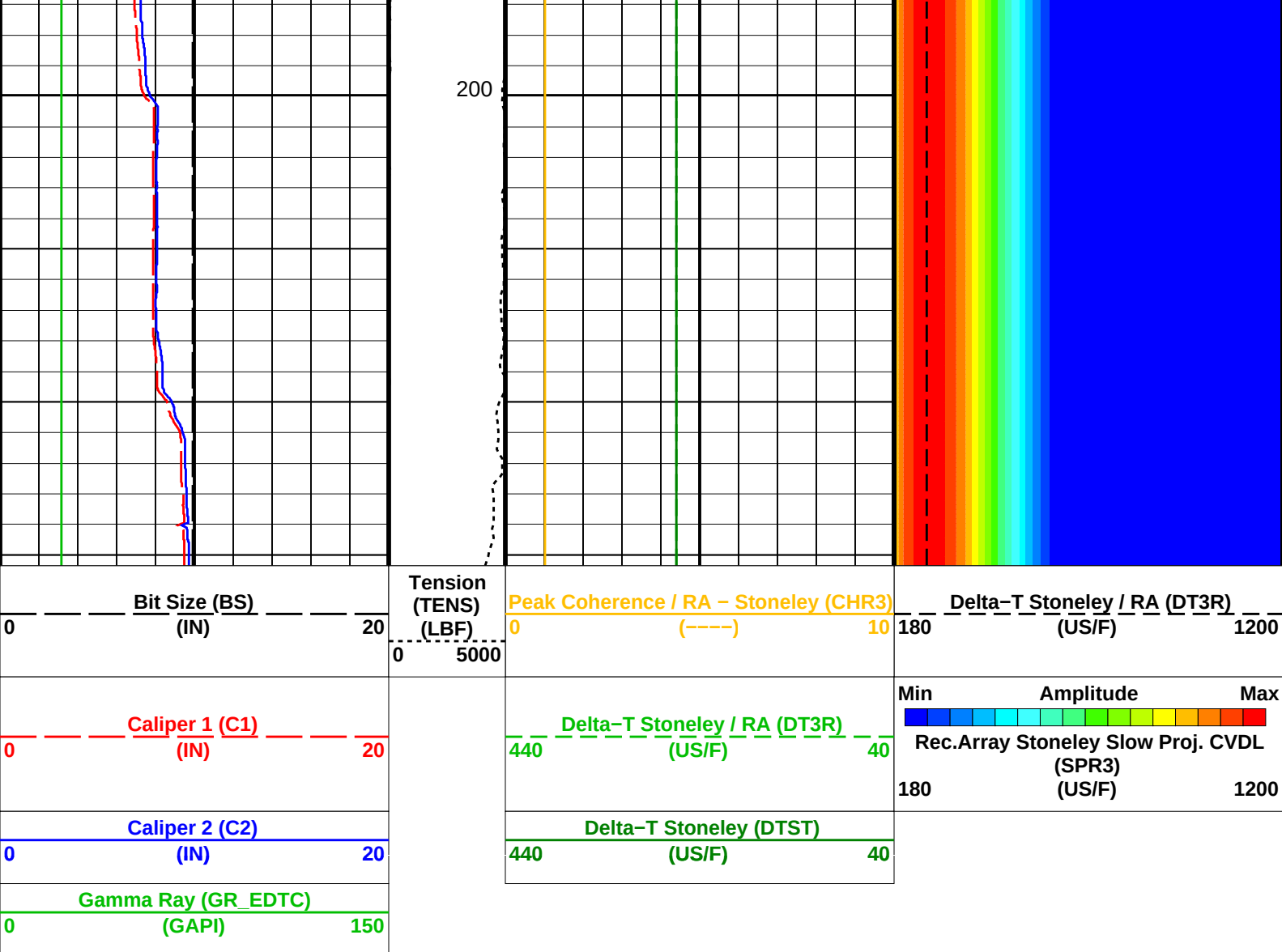
50

75









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 Stop – Monopole Stoneley	4	US/F

SS13	STC Slowness Step – Monopole Stoneley	4	US/F
SSW3	STC Source Waveform – Monopole Stoneley	180	US/F
STLL	Label Slowness Lower Limit – Monopole Stoneley	1200	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	1200	US/F
SUL3	STC Slowness Upper Limit – Monopole Stoneley	40	US/F
SWD3	STC Slowness Width – Monopole Stoneley	0	US
TBF3	STC Time for Baseline Fill – Monopole Stoneley	620	US
TLL3	STC Time Lower Limit – Monopole Stoneley	200	US
TST3	STC Time Step – Monopole Stoneley	15800	US
TUL3	STC Time Upper Limit – Monopole Stoneley	2000	US
TWD3	STC Time Width – Monopole Stoneley	1600	US
TWI3	STC Integration Time Window – Monopole Stoneley	0	
TWSX	Transmitter Waveform Select X		
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-4783.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 29-Aug-2014 08:21

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_027LUP	PRODUCER	29-Aug-2014 06:56	4998.5 M	4716.0 M
---------	-------------------------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_032PUP	FN:39	PRODUCER	29-Aug-2014 08:21
CUST	FMS_DSI_NGS_032PUC	FN:40	CUSTOMER	29-Aug-2014 08:21

Schlumberger

First Pass

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 352, Site U1440B

Input DLIS Files

DEFAULT	FMS_DSI_NGS_022LUP	FN:25	PRODUCER	25-Aug-2014 13:59	4997.2 M	4890.2 M
---------	--------------------	-------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_031PUP	FN:37	PRODUCER	29-Aug-2014 08:15	217.2 M	109.4 M
CUST	FMS_DSI_NGS_031PUC	FN:38	CUSTOMER	29-Aug-2014 08:15	217.2 M	109.4 M

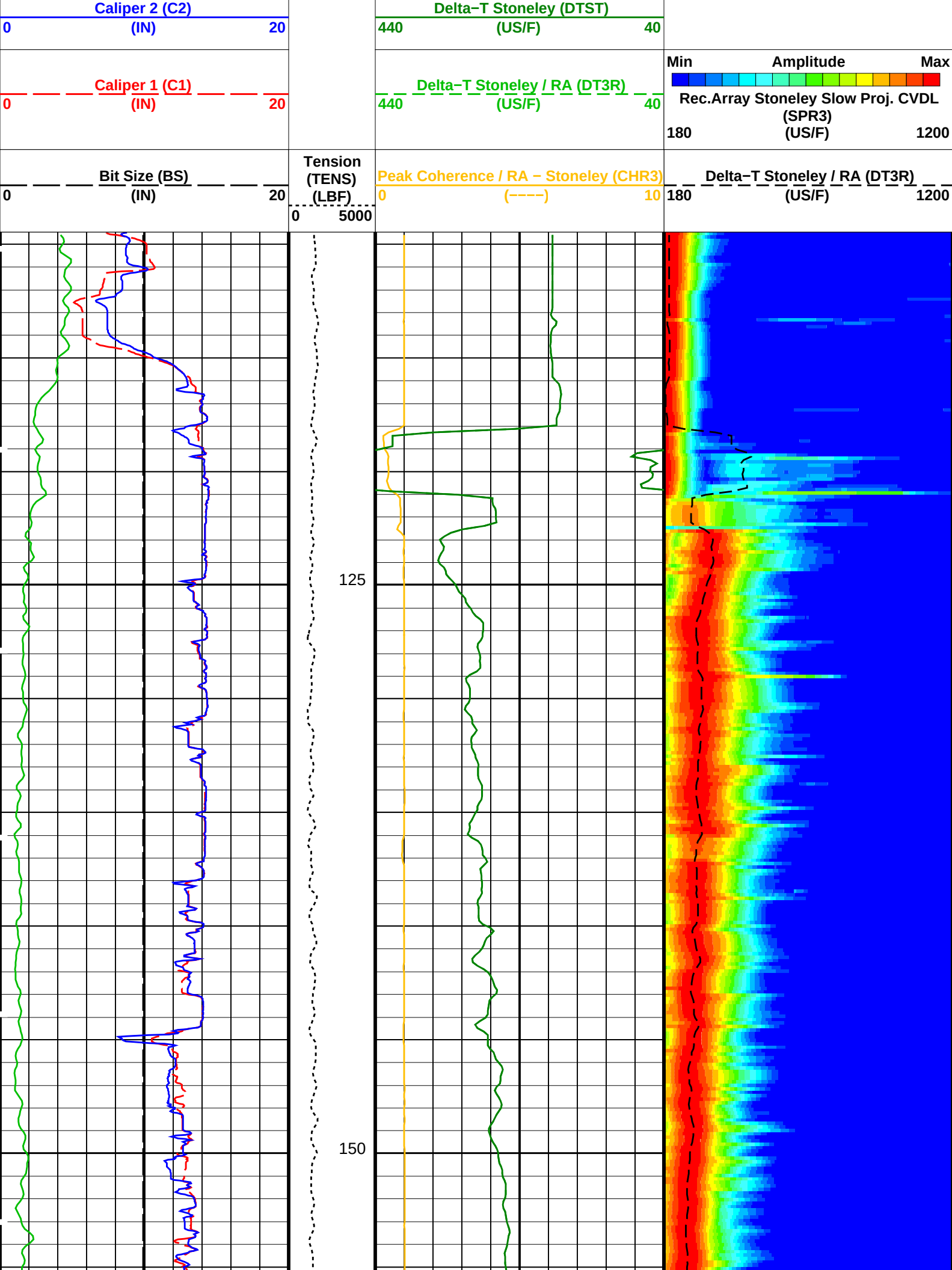
OP System Version: 19C0-187

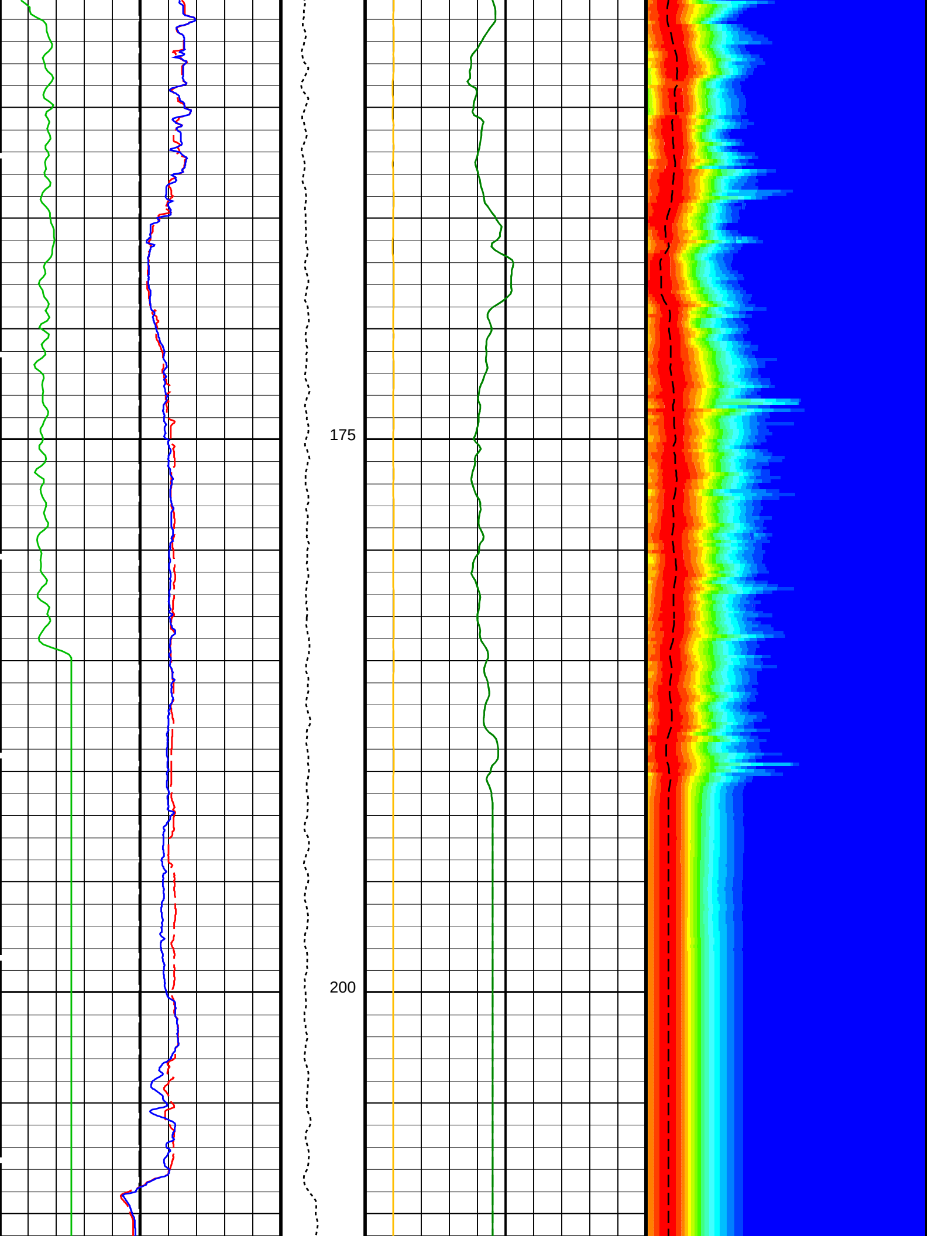
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

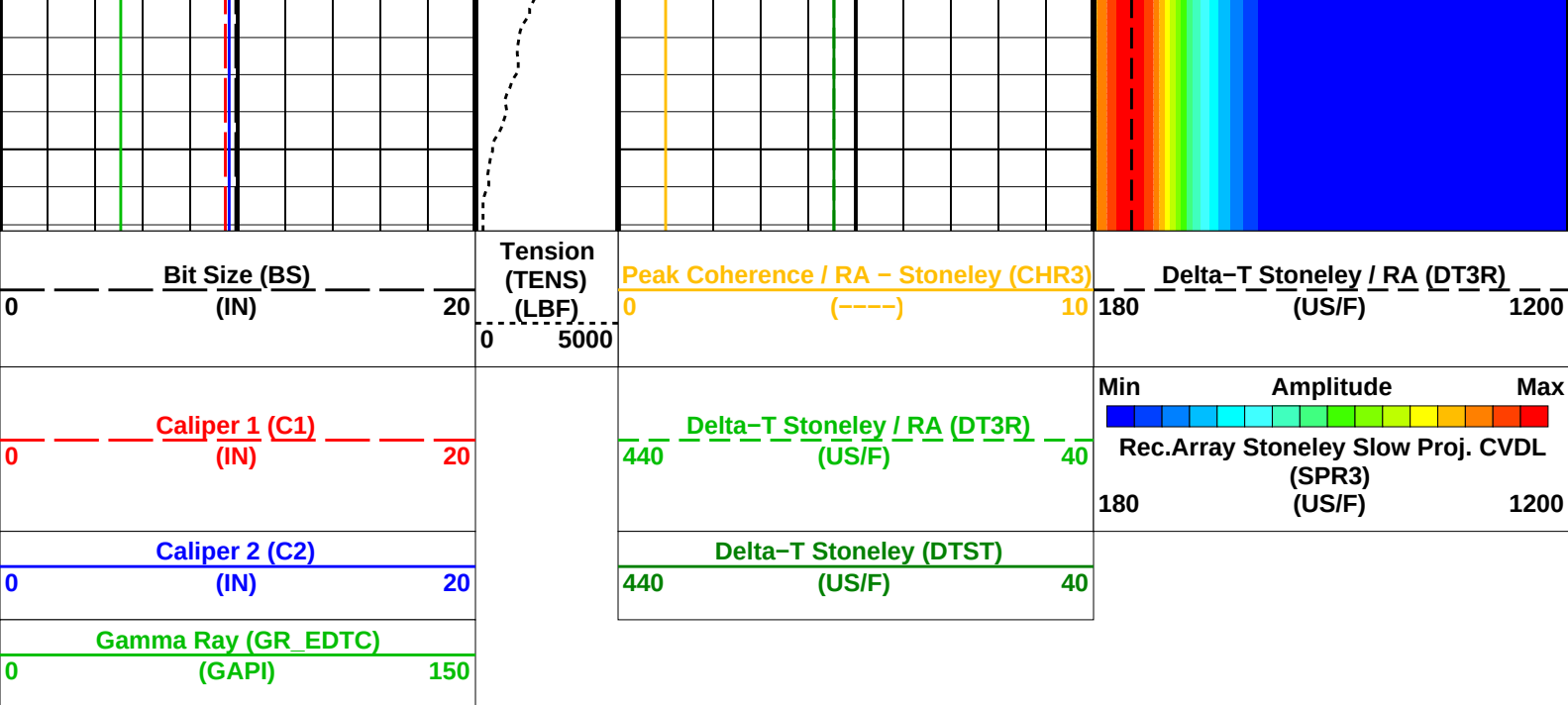
PIP SUMMARY

☐ Time Mark Every 60 S

Gamma Ray (GR_EDTC)		
0	(GAPI)	150







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	-4780.8 M
PP	Playback Processing	RECOMPUTE

OP System Version: 19C0-187					
MEST-B DSST-B HNGS-BA	19C0-187 19C0-187 19C0-187		DTA-A HNGC-B EDTC-B	19C0-187 19C0-187 SKK-5169-EDTCB	
Input DLIS Files					
DEFAULT	FMS_DSI_NGS_022LUP	FN:25	PRODUCER	25-Aug-2014 13:59	4997.2 M 4890.2 M
Output DLIS Files					
DEFAULT	FMS_DSI_NGS_031PUP	FN:37	PRODUCER	29-Aug-2014 08:15	
CUST	FMS_DSI_NGS_031PUC	FN:38	CUSTOMER	29-Aug-2014 08:15	
Second Pass MAXIS Field Log					

Second Pass

MAXIS Field Log

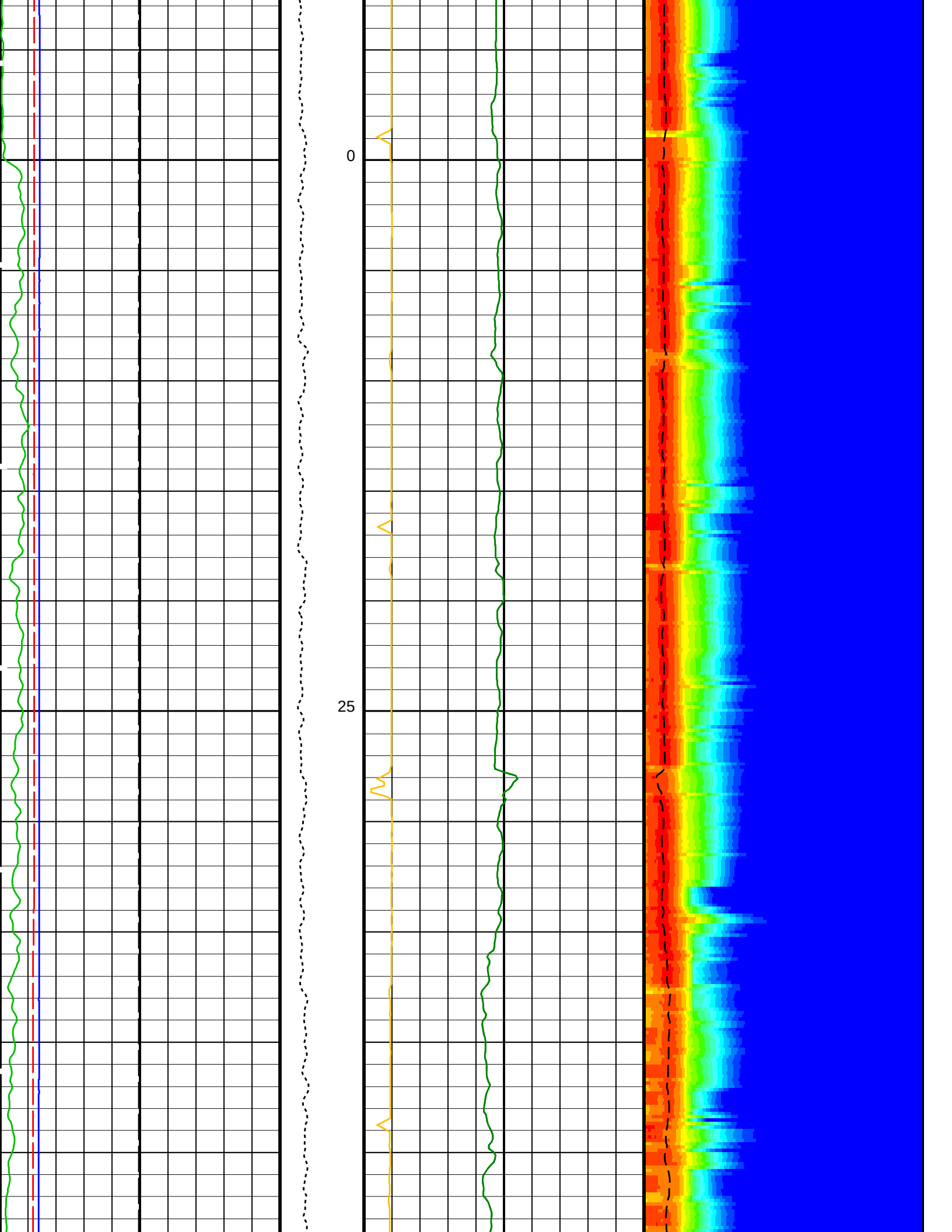
Well: Expedition 352, Site U1440B

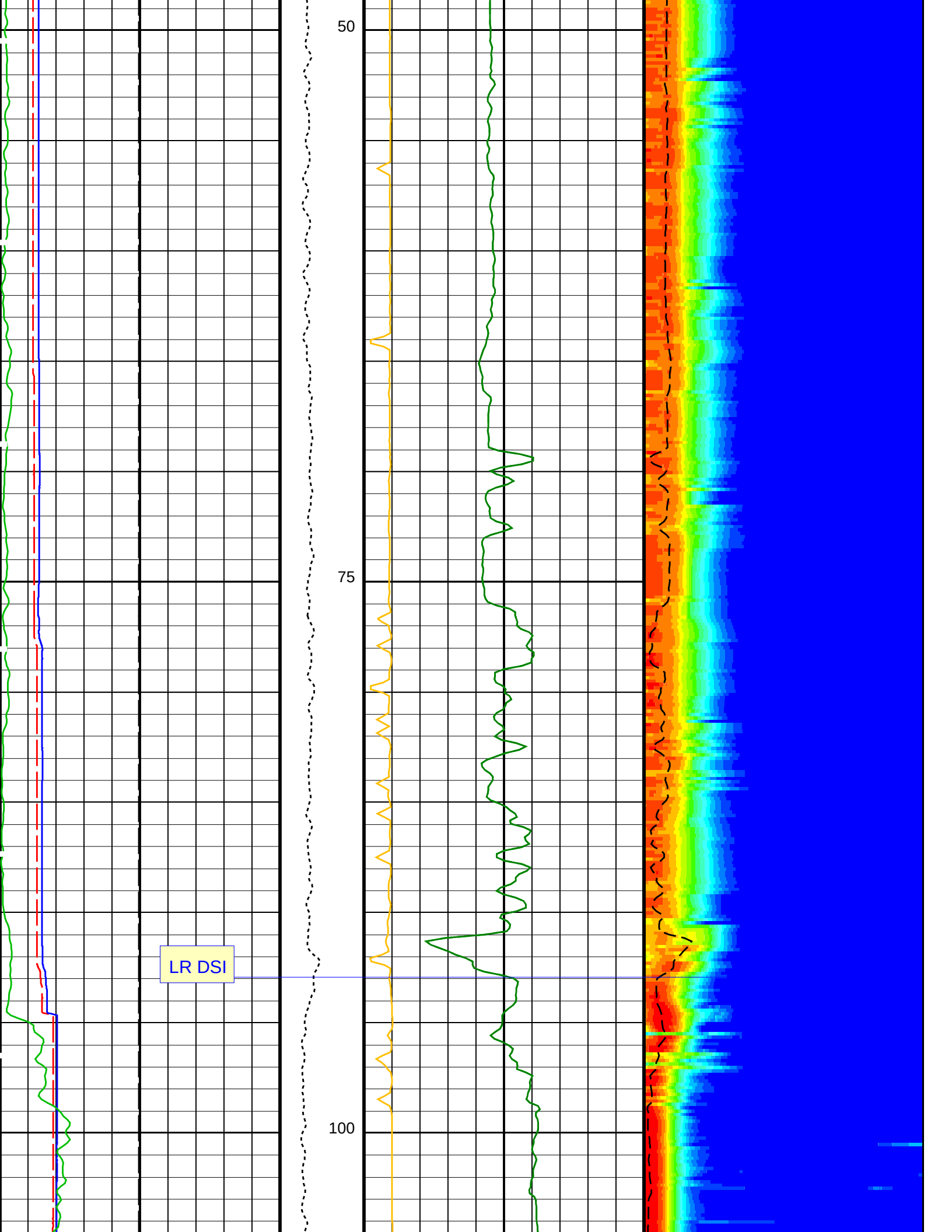
Input DLIS Files						
DEFAULT	FMS_DSI_NGS_023LUP	FN:27	PRODUCER	25-Aug-2014 14:32	5029.2 M	4771.0 M
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_030PUP	FN:35	PRODUCER	29-Aug-2014 07:26	249.2 M	-9.4 M
CUST	FMS_DSI_NGS_030PUC	FN:36	CUSTOMER	29-Aug-2014 07:26	249.2 M	-9.4 M

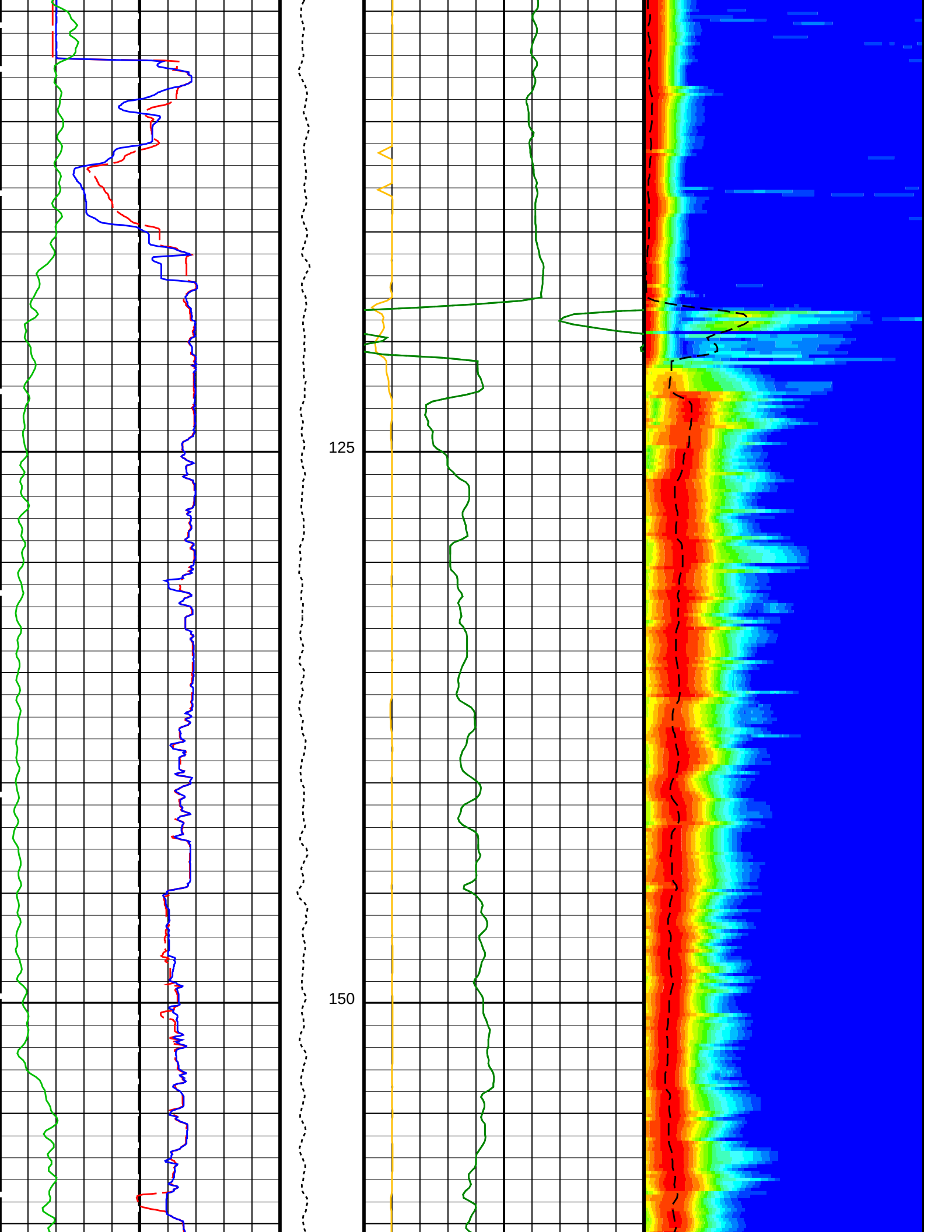
OP System Version: 19C0-187				
MEST-B	19C0-187	DTA-A	19C0-187	
DSST-B	19C0-187	HNGC-B	19C0-187	
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB	

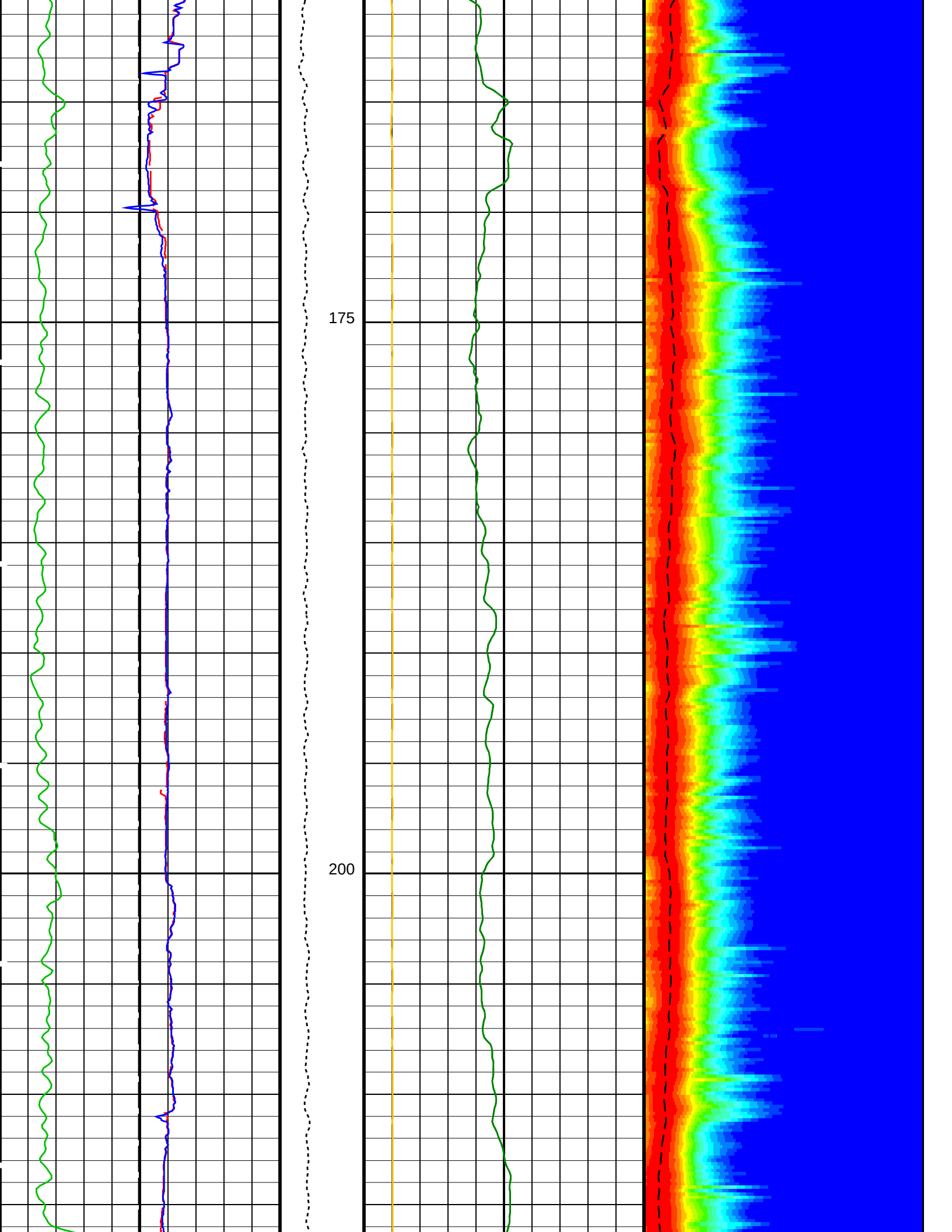
PIP SUMMARY

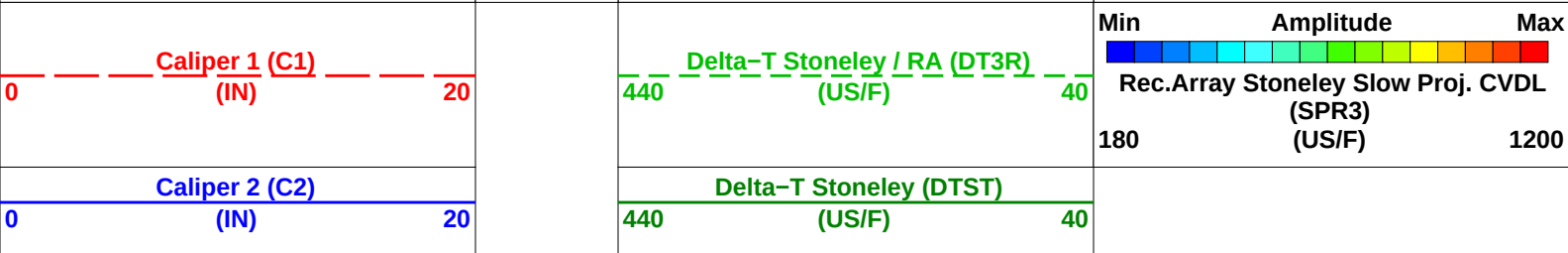
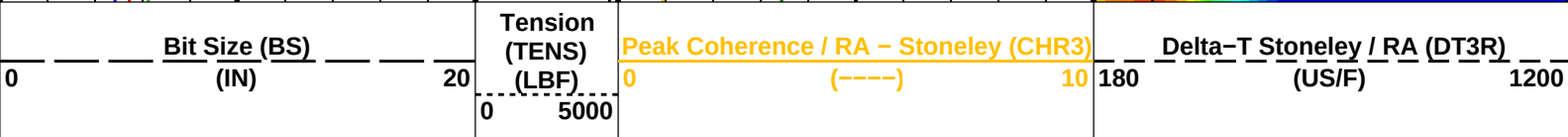
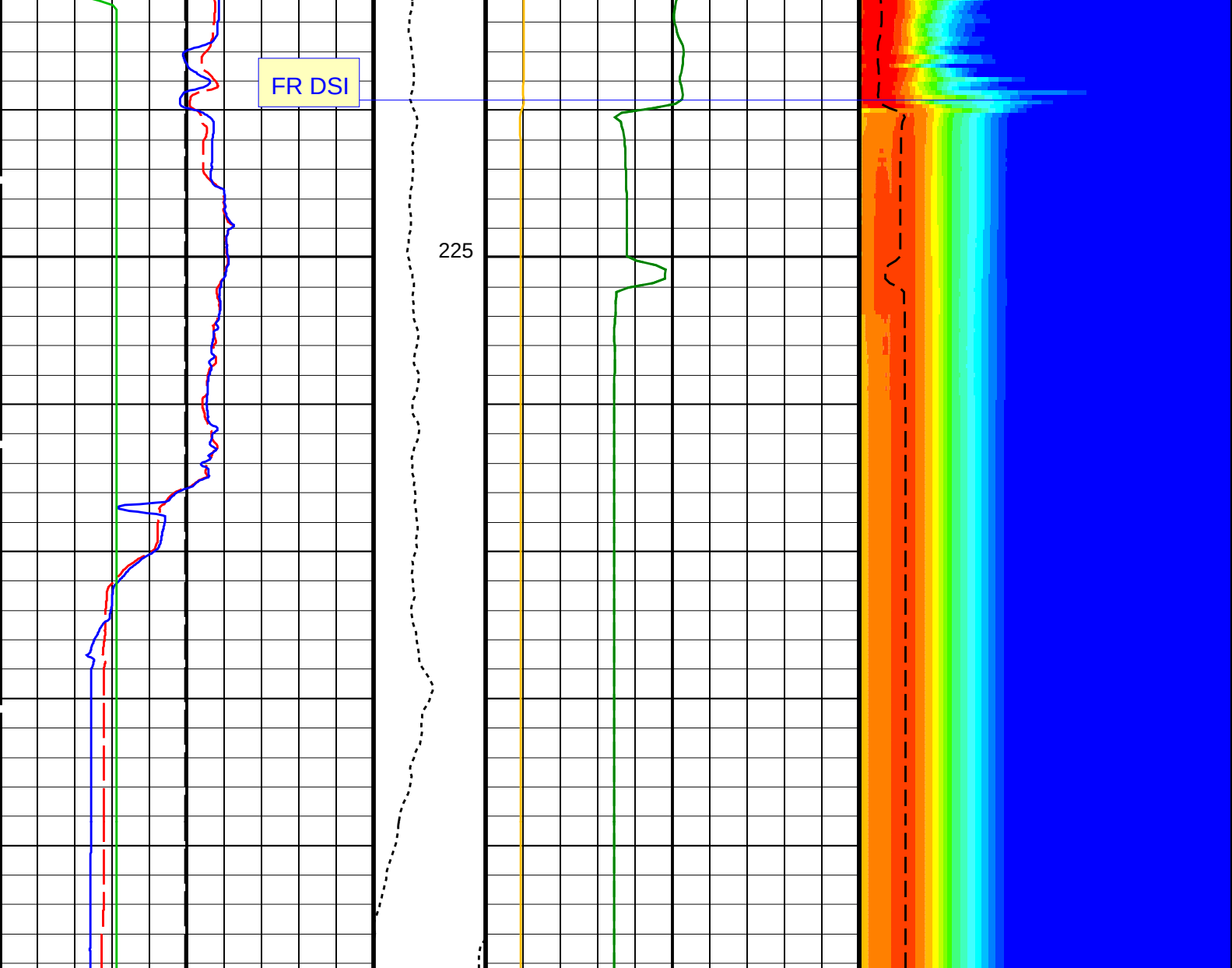
Gamma Ray (GR_EDTC) 0 (GAPI) 150		Delta-T Stoneley (DTST) 440 (US/F) 40		Amplitude Min Max  Rec.Array Stoneley Slow Proj. CVDL (SPR3) 180 (US/F) 1200
Caliper 2 (C2) 0 (IN) 20		Delta-T Stoneley / RA (DT3R) 440 (US/F) 40		
Caliper 1 (C1) 0 (IN) 20		Peak Coherence / RA - Stoneley (CHR3) 0 (----) 10		
Bit Size (BS) 0 (IN) 20		Delta-T Stoneley / RA (DT3R) 180 (US/F) 1200		
Tension (TENS) (LBF) 0 5000				











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	

DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	IN
MTXG	Monopole Transmitter Geometry	186	
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	-4780.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 29-Aug-2014 07:26

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_023LUP	FN:27	PRODUCER	25-Aug-2014 14:32	5029.2 M	4771.0 M
---------	--------------------	-------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_030PUP	FN:35	PRODUCER	29-Aug-2014 07:26
CUST	FMS_DSI_NGS_030PUC	FN:36	CUSTOMER	29-Aug-2014 07:26

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-Feb-2014 1:22

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: 25-Aug-2014 10:24

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: 25-Aug-2014 10:24

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: 24-Aug-2014 22:10 After: 25-Aug-2014 8:59

Na 511 Peak Loc	40.00	39.57	39.31	39.37	0.06061	1.000	
Na 511 Peak Res	15.50	15.78	17.01	15.71	-1.307	2.000	%
High Voltage	1150	1197	1191	1185	-5.825	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.4	140.8	-0.6519	7.000	
Na 1785 Peak Res	8.500	9.334	9.293	9.752	0.4594	2.000	%
Temperature	15.50	37.42	37.84	33.92	-3.928	N/A	DEGC
Na Count Rate	45.00	10.91	9.923	10.84	0.9130	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 15-Jul-2014 0:16 Before: 24-Aug-2014 22:10 After: 25-Aug-2014 8:59

Na 511 Peak Loc	40.00	39.46	39.55	39.57	0.01600	1.000	
Na 511 Peak Res	15.50	16.20	16.79	17.06	0.2669	2.000	%
High Voltage	1150	1129	1126	1118	-7.509	N/A	V
Na 1785 Peak Loc	142.6	141.8	141.2	139.9	-1.267	7.000	
Na 1785 Peak Res	8.500	10.06	9.288	9.578	0.2898	2.000	%
Temperature	15.50	38.37	38.39	35.87	-2.523	N/A	DEGC
Na Count Rate	45.00	11.54	10.32	11.05	0.7369	8.000	CPS

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

Master: 15-Jul-2014 0:16 Before: 24-Aug-2014 22:10 After: 25-Aug-2014 8:59

Coincidence Count Rate Ratio	1.000	0.9495	0.9636	0.9743	0.01068	0.05000	
------------------------------	-------	--------	--------	--------	---------	---------	--

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 24-Aug-2014 22:07

EDTC Z-Axis Acceleration	9.810	N/A	9.740	N/A	N/A	N/A	M/S2
--------------------------	-------	-----	-------	-----	-----	-----	------

Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 24-Aug-2014 22:08 After: 25-Aug-2014 8:56

Gamma Ray (Jig – Bkg)	163.3	N/A	163.3	158.4	-4.824	14.84	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	160.1	-4.875	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

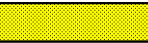
Gamma Source Radioactive

GSR – U

616008

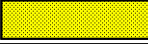
Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			39.57	Master			15.78	Master			1197
Before			39.31	Before			17.01	Before			1191
After			39.37	After			15.71	After			1185
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)		12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)		900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master			142.4	Master			9.334	Master			37.42
Before			141.4	Before			9.293	Before			37.84
After			140.8	After			9.752	After			33.92
	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			10.91								
Before			9.923								
After			10.84								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: 15-Jul-2014 0:16				Before: 24-Aug-2014 22:10				After: 25-Aug-2014 8:59			

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Detector 2 Check												
Phase Na 511 Peak Loc Value			Phase Na 511 Peak Res % Value			Phase High Voltage V Value						
Master			39.46	Master			16.20	Master			1129	
Before			39.55	Before			16.79	Before			1126	
After			39.57	After			17.06	After			1118	
37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)						
Phase Na 1785 Peak Loc Value			Phase Na 1785 Peak Res % Value			Phase Temperature DEGC Value						
Master			141.8	Master			10.06	Master			38.37	
Before			141.2	Before			9.288	Before			38.39	
After			139.9	After			9.578	After			35.87	
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												11.54
Before												10.32
After												11.05
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)												
Master: 15-Jul-2014 0:16				Before: 24-Aug-2014 22:10				After: 25-Aug-2014 8:59				

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9495

Before		0.9636
After		0.9743
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 15-Jul-2014 0:16		
Before: 24-Aug-2014 22:10		
After: 25-Aug-2014 8:59		

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG - A/B 8305
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		9.740
9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)		
Before: 24-Aug-2014 22:07		

Enhanced DTS Cartridge Wellsite Calibration																										
Detector Calibration																										
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig - Bkg) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value												
Before				1.464	Before				163.3	Before				165.0												
After				5.441	After				158.4	After				160.1												
0 (Minimum)				30.00 (Nominal)	120.0 (Maximum)				148.4 (Minimum)				163.3 (Nominal)	178.1 (Maximum)				150.0 (Minimum)				165.0 (Nominal)	180.0 (Maximum)			
Before: 24-Aug-2014 22:08						After: 25-Aug-2014 8:56																				

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 352, Site U1440B**

Field: **IBM-3 Forearc**

Rig: **JOIDES Resolution**

Country:

DSI Dipole Sonic Imager
Stoneley