

# Schlumberger

Company: **Lamont Doherty**

Well: **Expedition 339, Site U1389GC-11A**  
 Field: **Mediterranean Outflow (Portugal)**  
 Rig: **JOIDES Resolution** Ocean: **Atlantic**

**Dipole Shear Sonic**  
**P&S Compressional & Dipole Shear**  
**Gamma Ray**

Rig: **JOIDES Resolution**  
 Field: **Mediterranean Outflow (Portugal)**  
 Location: **Latitude: N 36° 25.517'**  
 Well: **Expedition 339, Site U1389GC-1**  
 Company: **Lamont Doherty**

LOCATION		Latitude: N 36° 25.517'	Elev.: K.B. 11.00 m
		Longitude: W 7° 16.688'	G.L. -645.00 m
			D.F. 11.00 m
Permanent Datum:	Mean Sea Level	Elev.: 0.00 m	
Log Measured From:	Drill Floor	11.00 m above Perm. Datum	
Drilling Measured From:	Drill Floor		
API Serial No.	Max. Hole Devi. 0 deg	Longitude W 7.2781*	Latitude N 36.42528*

Logging Date	24-Dec-2011	
Run Number	1	
Depth Driller	356 m	
Schlumberger Depth	356 m	
Bottom Log Interval	356 m	
Top Log Interval	656 m	
Casing Driller Size @ Depth	10.750 in @	86 m @
Casing Schlumberger	85 m	
Bit Size	9.875 in	
Type Fluid In Hole	Seawater Gel	
Density	1.25 g/cm3	
Fluid Loss	PH	
Source Of Sample	N/A	
RM @ Measured Temperature	@	@
RMF @ Measured Temperature	@	@
RMC @ Measured Temperature	@	@
Source RMF	RMC	
RM @ MRT	RMF @ MRT	
	@ 21	@ 21
Maximum Recorded Temperatures	21 degC	
Circulation Stopped	24-Dec-2011	0:00
Logger On Bottom	24-Dec-2011	8:36
Unit Number	625003	Houston
Recorded By	K. Swain	
Witnessed By	T. Williams, J. Lofi	

Logging Date	Run 1	Run 2	Run
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss	PH		
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**  
 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: HLDS/HRLA/HNGS  
 OS2: VSI  
 OS3: FM/DSI  
 OS4:  
 OS5:

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

**REMARKS: RUN NUMBER 1**  
 Hole GC-11A Hole C was drilled with a 9 7/8" APC/XCB bit to TDD of 356 mbsf.  
 Hole depth referenced from sea floor based on driller measurement is 656 m.  
 Log played back for sea floor depth reference but matches the main log from the HRLA-HLDS-HNGS primarily as there is a depth discrepancy caused by the active heave compensator after it was stopped prior to going into drill pipe.  
  
 All logs recorded via wireline thru 5.5" drillpipe and RCB coring BHA. consisting of a bit release sub, Kinley sub, drill collars. The LFV flapper valve was above the bit.

**REMARKS: RUN NUMBER 2**

**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**

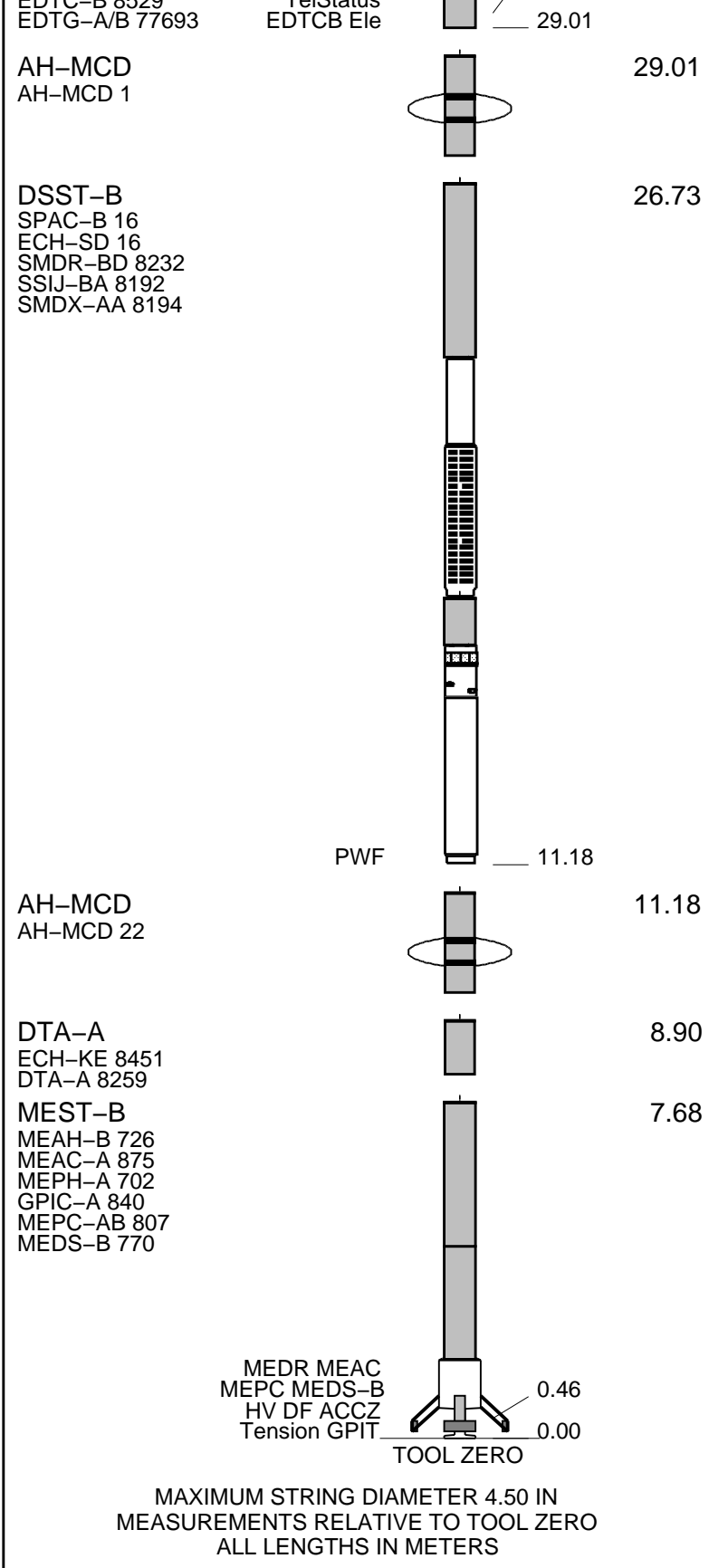
**SURFACE EQUIPMENT**

WITM (EDTS)-A 1

**RUN 2**

**DOWNHOLE EQUIPMENT**

LEH-QT		32.31
LEH-QT 301		
AH-369	MDSB_EDTC	
	Mud Tempe	30.99
	CTEM	29.92
EDTC-B	Gamma Ray	29.35
EDTH-B 8528	EFTB DIAG	30.99
EDTC B 8528	TotStatus	

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

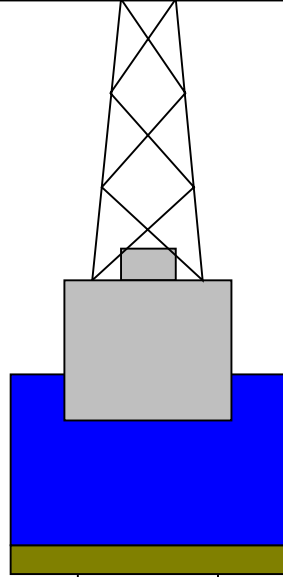
Kelly Bushing Elevation  
Derrick Floor Elevation

Mean Sea Level

-656

-656

-645



4.1



0

3.80

Sea Floor

86

9.875

Open Hole

355

Total Depth

Company: Lamont Doherty

Well: Expedition 339, Site U1389GC-11A

### Input DLIS Files

DEFAULT	FMS_DSI_025LUP	FN:39	PRODUCER	24-Dec-2011 08:36	1010.6 M	643.6 M
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### Output DLIS Files

DEFAULT	FMS_DSI_054PUP	FN:73	PRODUCER	27-Dec-2011 04:02	357.2 M	-9.8 M
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### OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	EDTC-B	19C0-187

### PIP SUMMARY

Time Mark Every 60 S

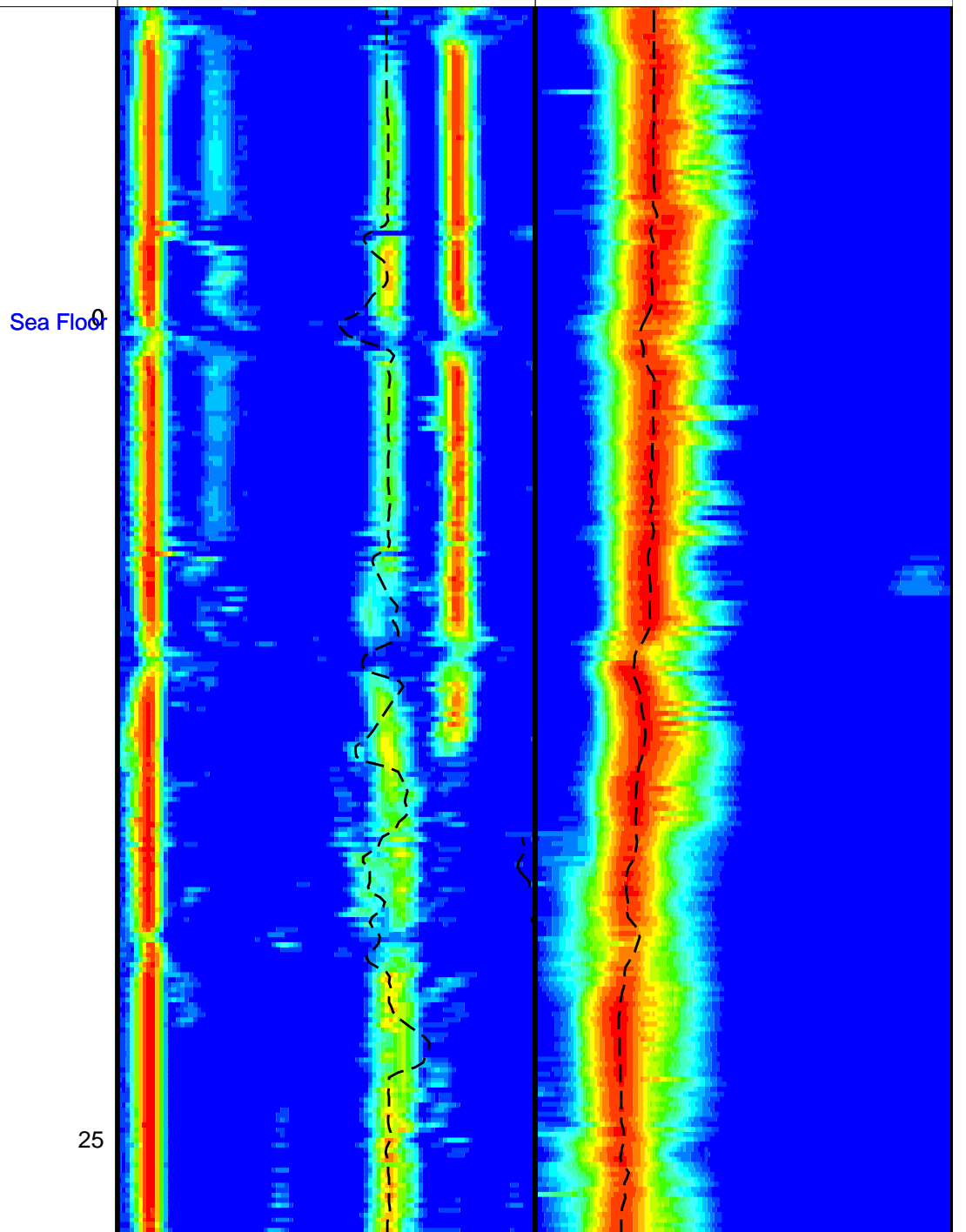
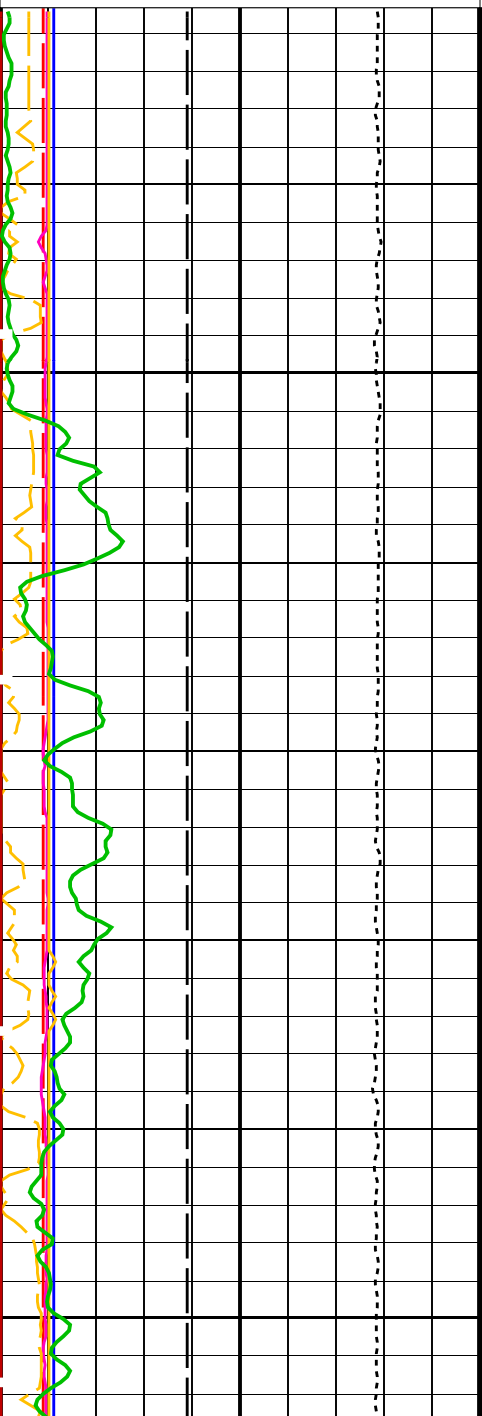
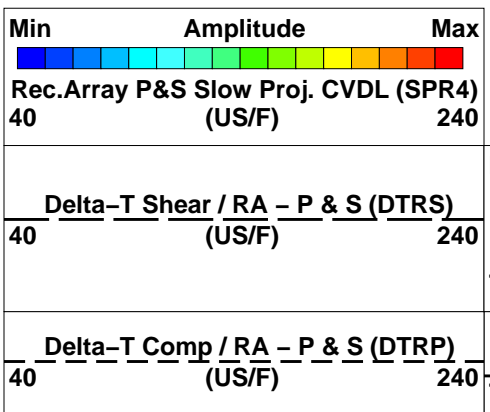
<b>Waveform Data Copy Indicator 4 - Monopole P&amp;S (WCI4)</b>		
0	(----)	10

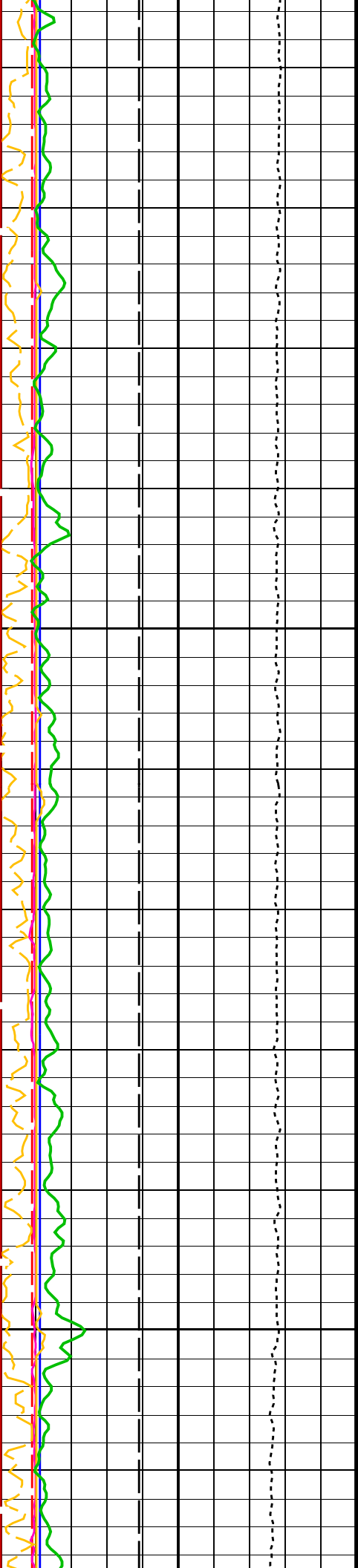
<b>Peak Coherence / RA - P &amp; S Shear (CHRS)</b>		
-1	(----)	9

<b>Peak Coherence / RA - P &amp; S Comp (CHRP)</b>		
0	(----)	10

Peak Coherence / RA - Upper Dipole (CHR2)		
0	(-----)	10
Gamma Ray (GR_EDTC)		
0	(GAPI)	75
Tension (TENS)		
10000	(LBF)	0
Caliper 1 (C1)		
0	(IN)	20
Caliper 2 (C2)		
0	(IN)	20
Bit Size (BS)		
6	(IN)	16

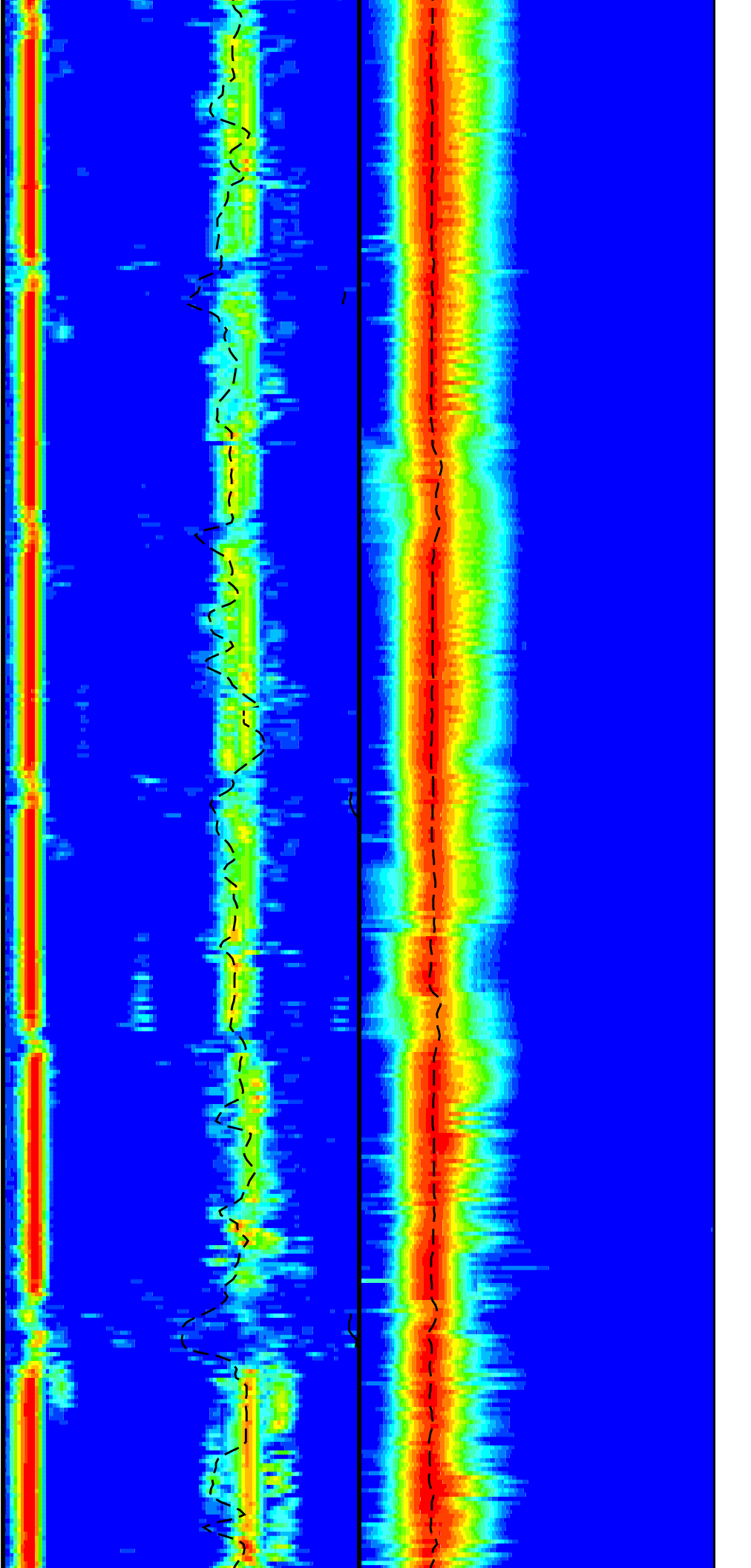
2nd Pass, Sea Floor Depth Reference

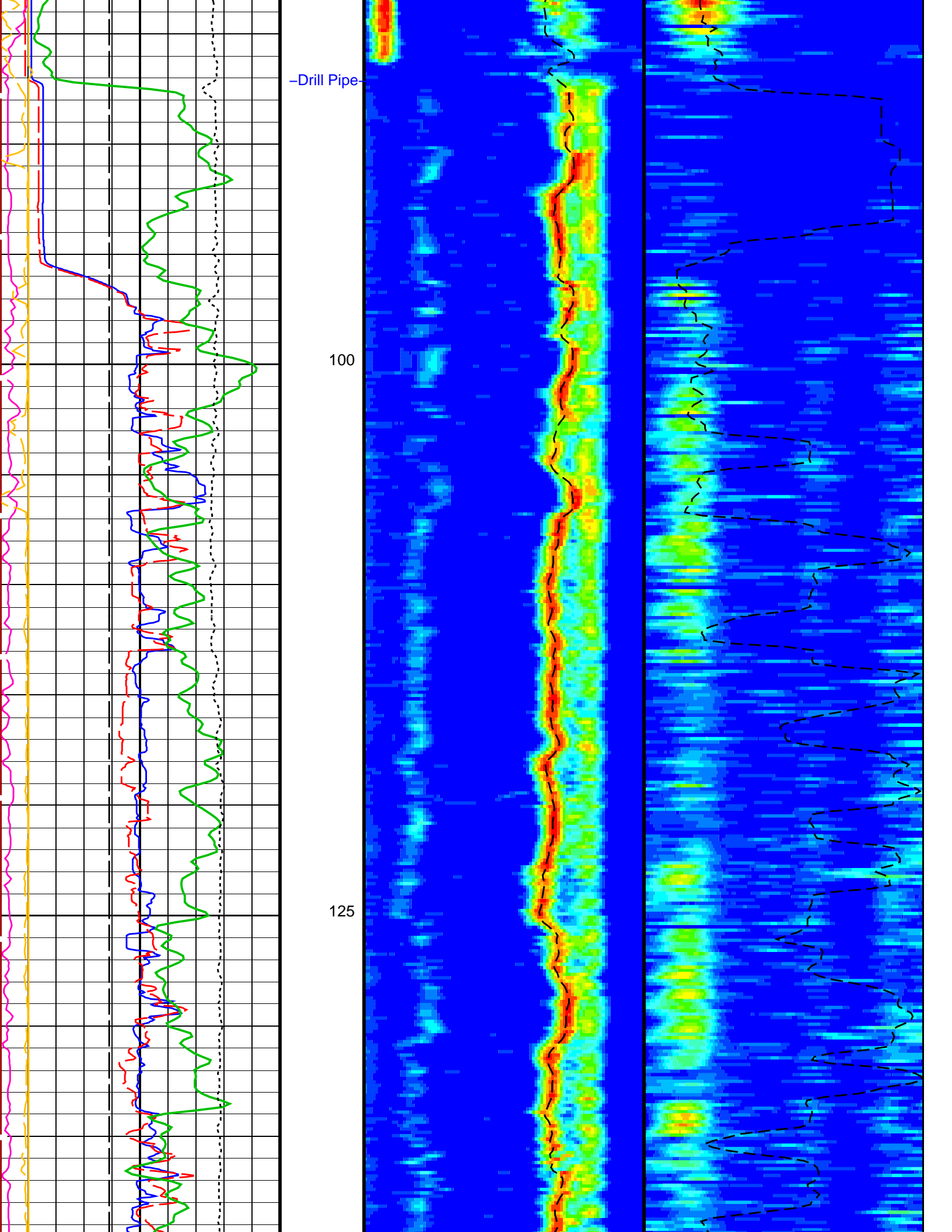




50

75



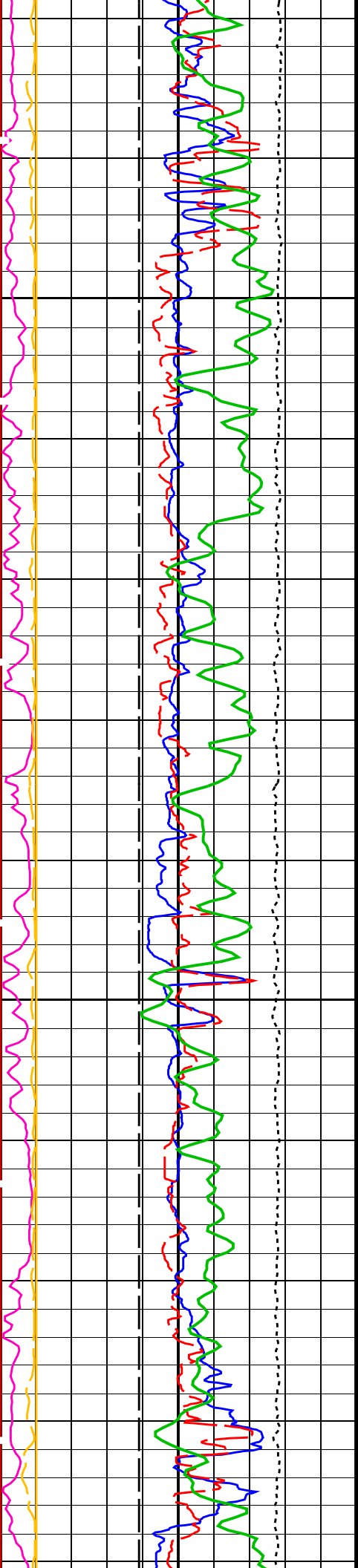


-Drill Pipe

100

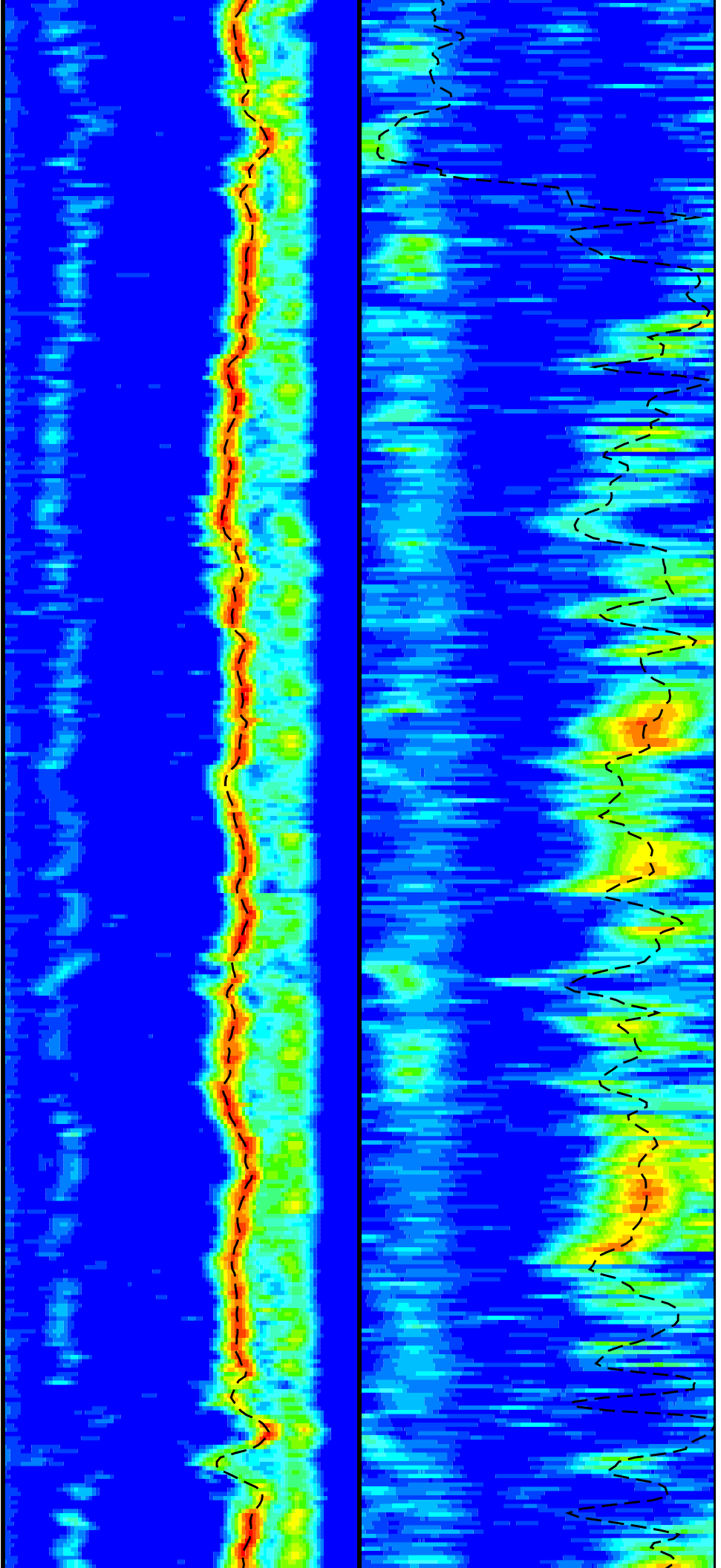
125

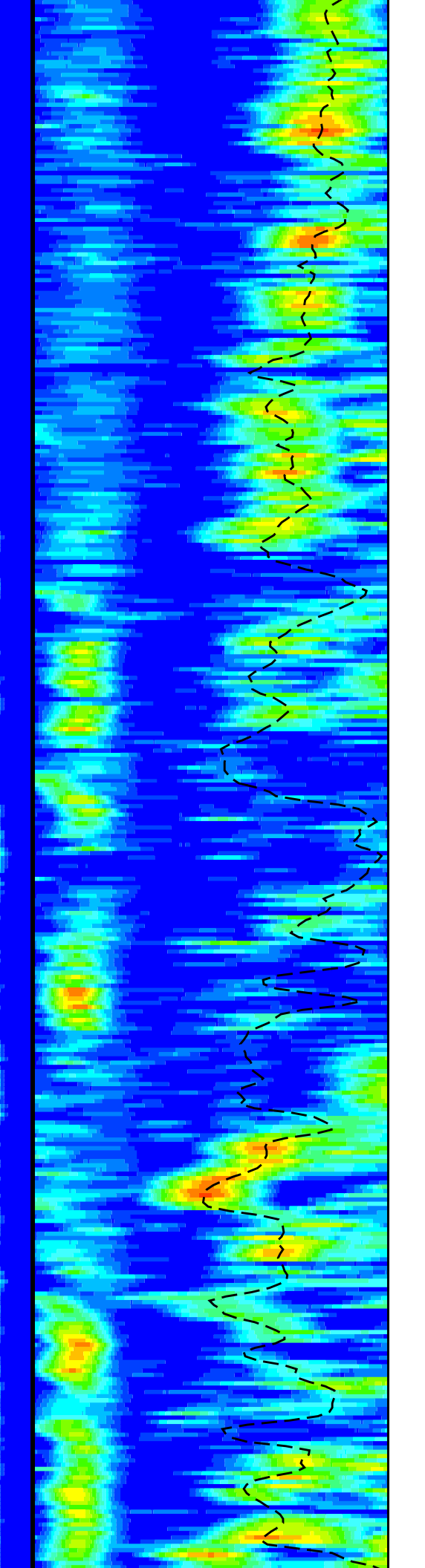
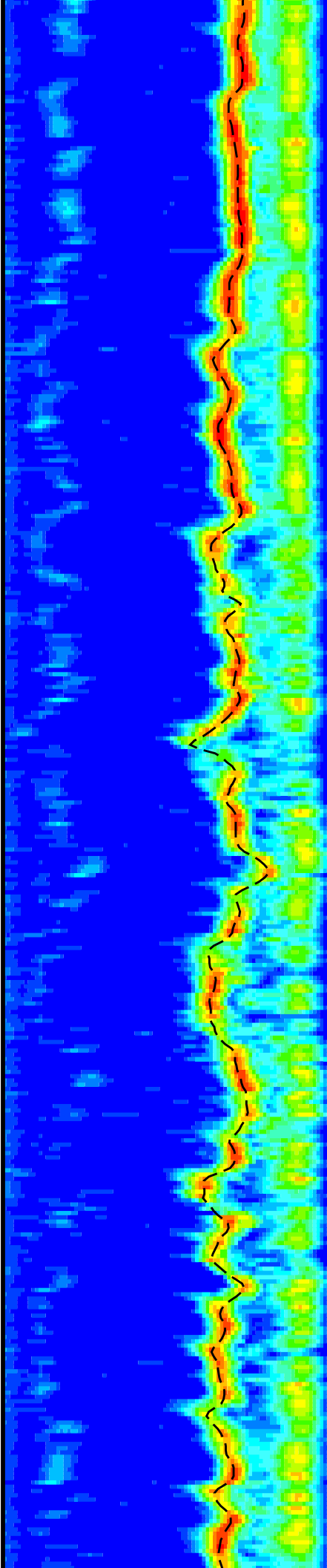
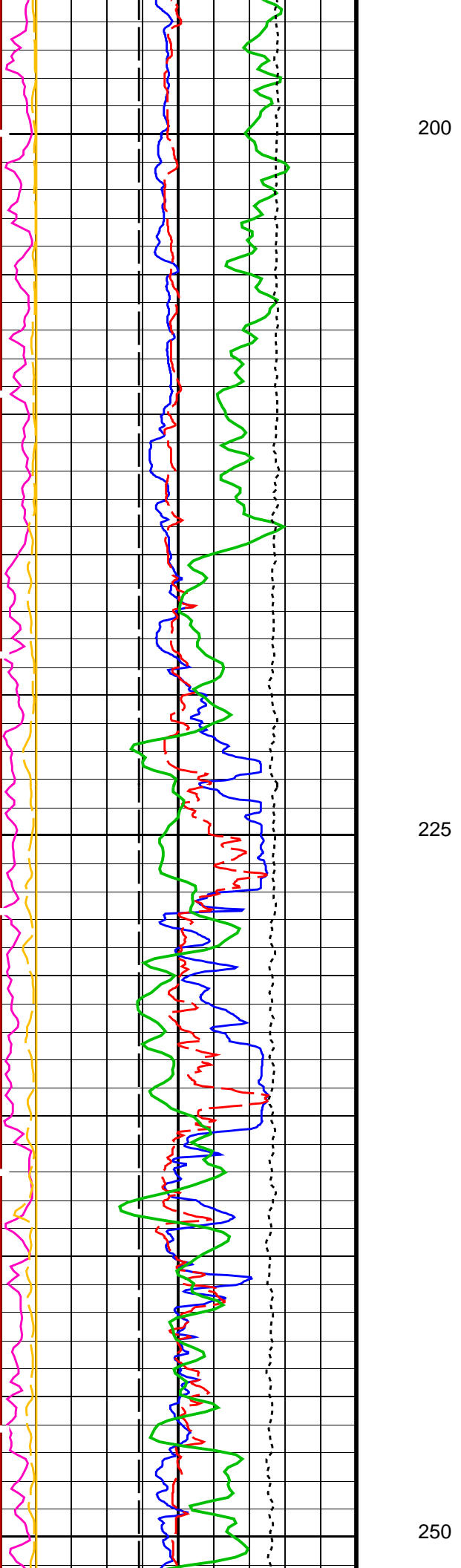


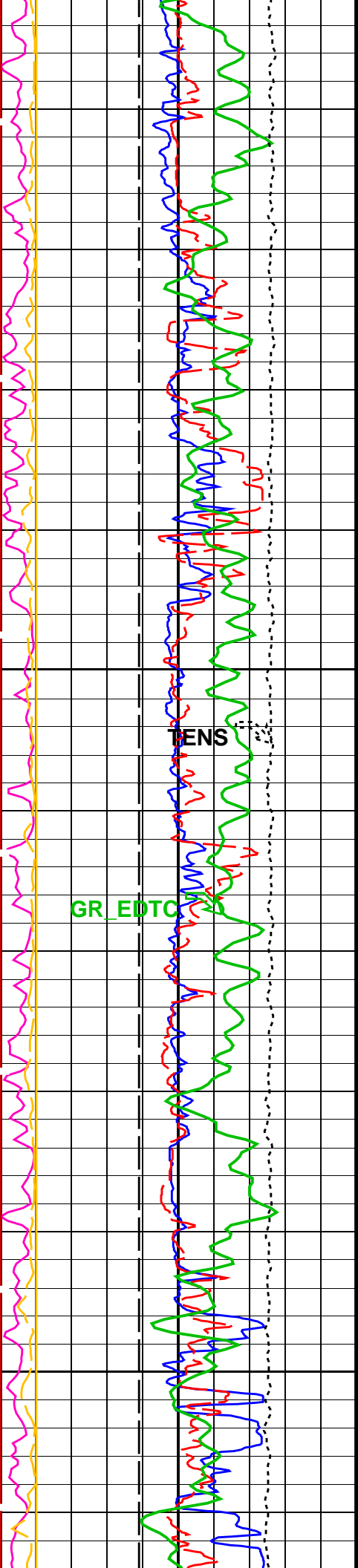


150

175

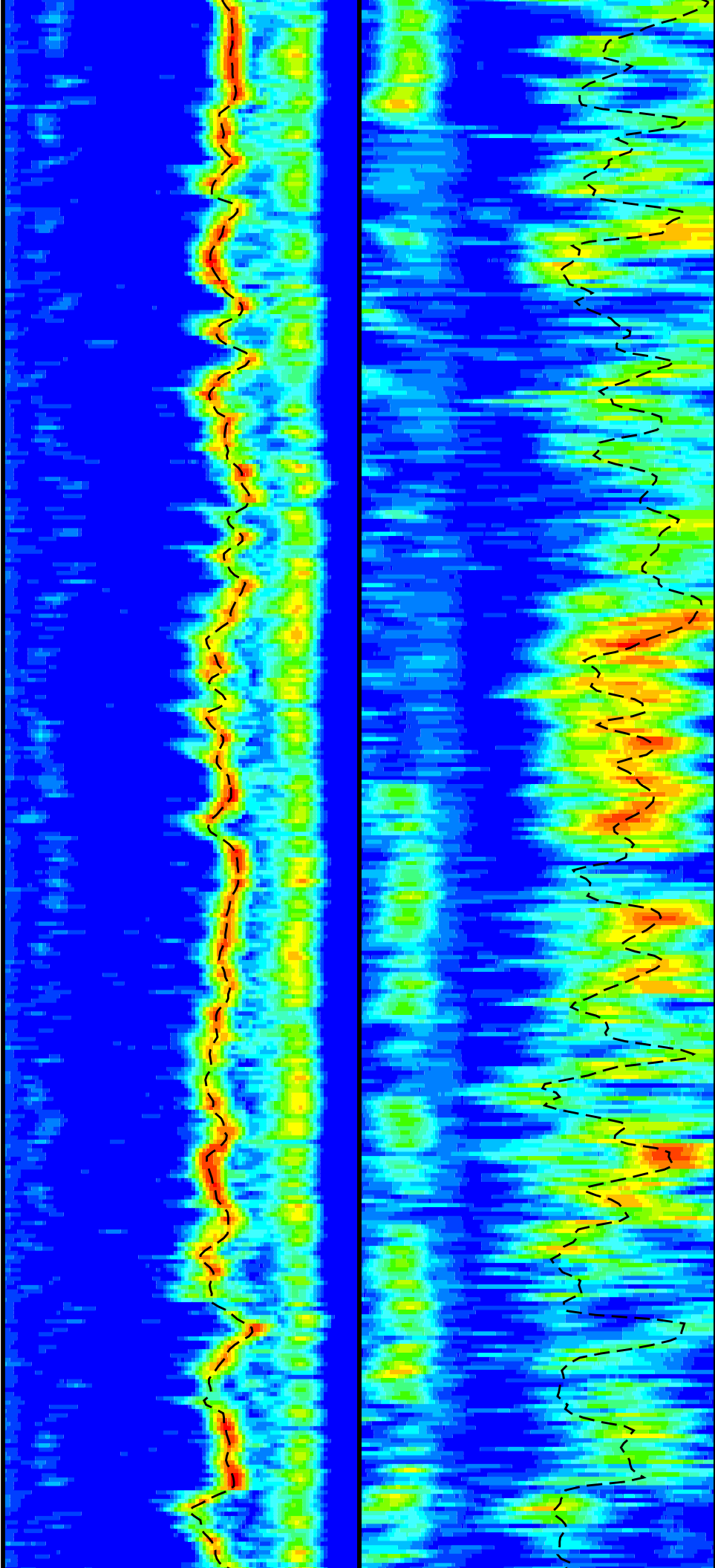


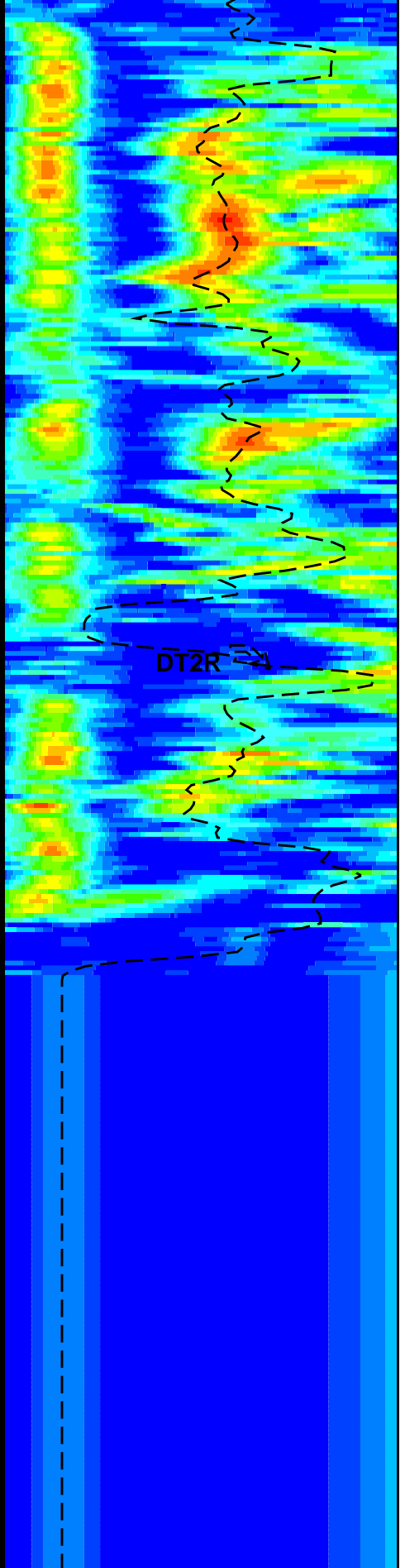
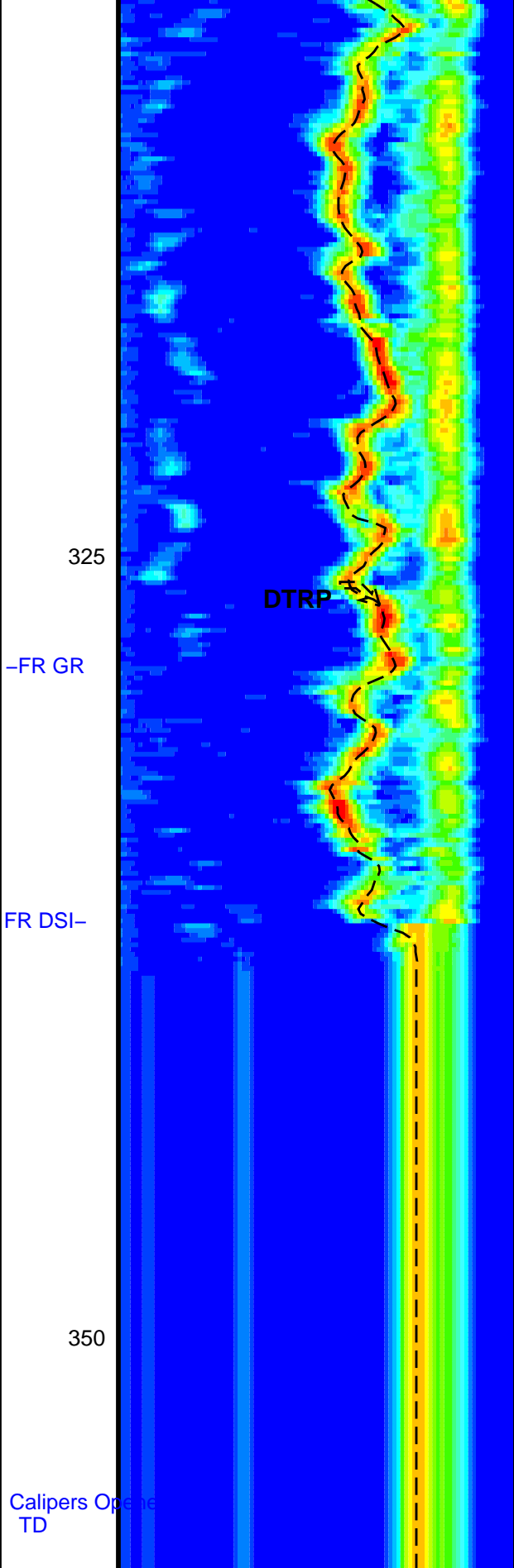
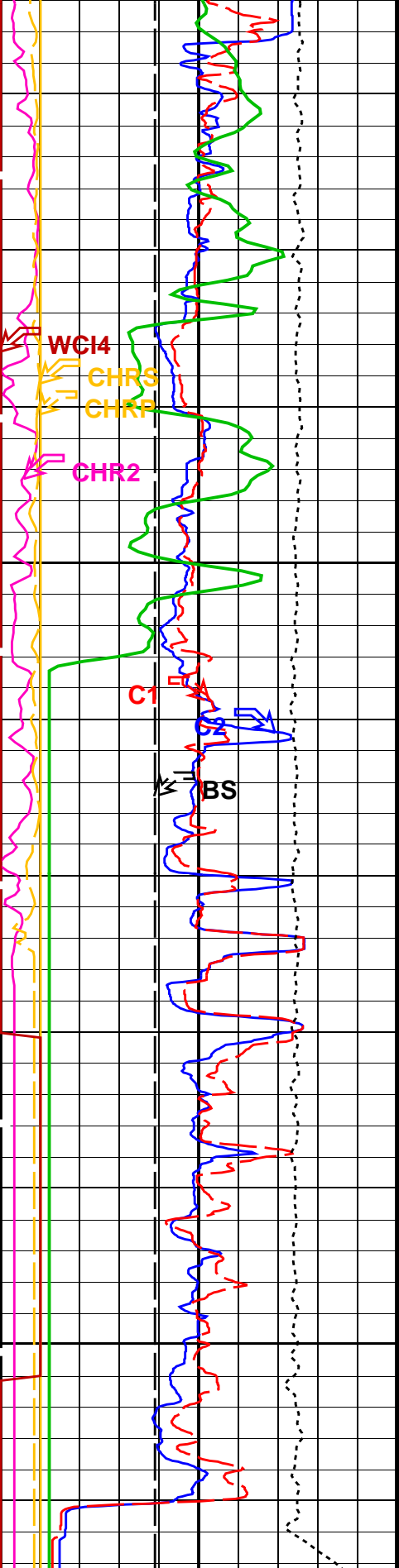




275

300





Bit Size (BS)  
(IN) 6 16

Caliper 2 (C2)  
(IN) 0 20

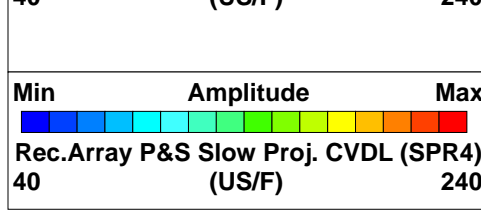
Delta-T Comp / RA - P & S (DTRP)  
(US/F) 40 240

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

Delta-T Shear / RA - Upper Dipole  
(DT2R)  
(US/F) 75 775

Min Amplitude Max  
Rec.Array U.Dipole Slow Proj. CVDL

0	Caliper 1 (C1) (IN)	20
10000	Tension (TENS) (LBF)	0
0	Gamma Ray (GR_EDTC) (GAPI)	75
0	Peak Coherence / RA – Upper Dipole (CHR2) (----)	10
0	Peak Coherence / RA – P & S Comp (CHRP) (----)	10
-1	Peak Coherence / RA – P & S Shear (CHRS) (----)	9
0	Waveform Data Copy Indicator 4 – Monopole P&S (WCI4) (----)	10



75 (SPR2)  
(US/F) 775

2nd Pass, Sea Floor Depth Reference

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function – Monopole P&S	50
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	130 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	190 US/F
DDE2	Digitizing Delay 2	0 US
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	775 US/F
DSI2	Digitizer Sample Interval 2	40 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTF	Delta-T Fluid	189 US/F
DWC2	Digitizer Word Count 2	512
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	512
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR
LFC	Label Formation Character – Monopole P&S	DYNAMIC
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NWI2	Number Waveform Items 2	8
NWI4	Number Waveform Items 4	8
NWIX	Number Waveform Items X	0
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF
SAS2	STC Sonic Array Status – Upper Dipole	255
SAS4	STC Sonic Array Status – Monopole P&S	255

SASA4	STC Sonic Array Status – Monopole P&S	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B1–2K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	230	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	775	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST2	STC Time Step – Upper Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL2	STC Time Upper Limit – Upper Dipole	15525	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
	EDTC–B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	–653.3	M
PP	Playback Processing	NORMAL	

Format: DSST\_P\_S\_UPPER\_VDL\_COLOR    Vertical Scale: 1:200    Graphics File Created: 27–Dec–2011 04:02

### OP System Version: 19C0–187

MEST–B	19C0–187	DTA–A	19C0–187
DSST–B	19C0–187	EDTC–B	19C0–187

### Input DLIS Files

DEFAULT	FMS_DSI_025LUP	FN:39	PRODUCER	24–Dec–2011 08:36	1010.6 M	643.6 M
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### Output DLIS Files

DEFAULT	FMS_DSI_054PUP	FN:73	PRODUCER	27–Dec–2011 04:02
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Company: Lamont Doherty    Well: Expedition 339, Site U1389GC–11A

### Input DLIS Files

DEFAULT	FMS_DSI_024LUP	FN:37	PRODUCER	24–Dec–2011 07:05	1009.6 M	777.8 M
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### Output DLIS Files

DEFAULT	FMS_DSI_053PUP	FN:72	PRODUCER	27–Dec–2011 03:56	356.3 M	124.5 M
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### OP System Version: 19C0–187

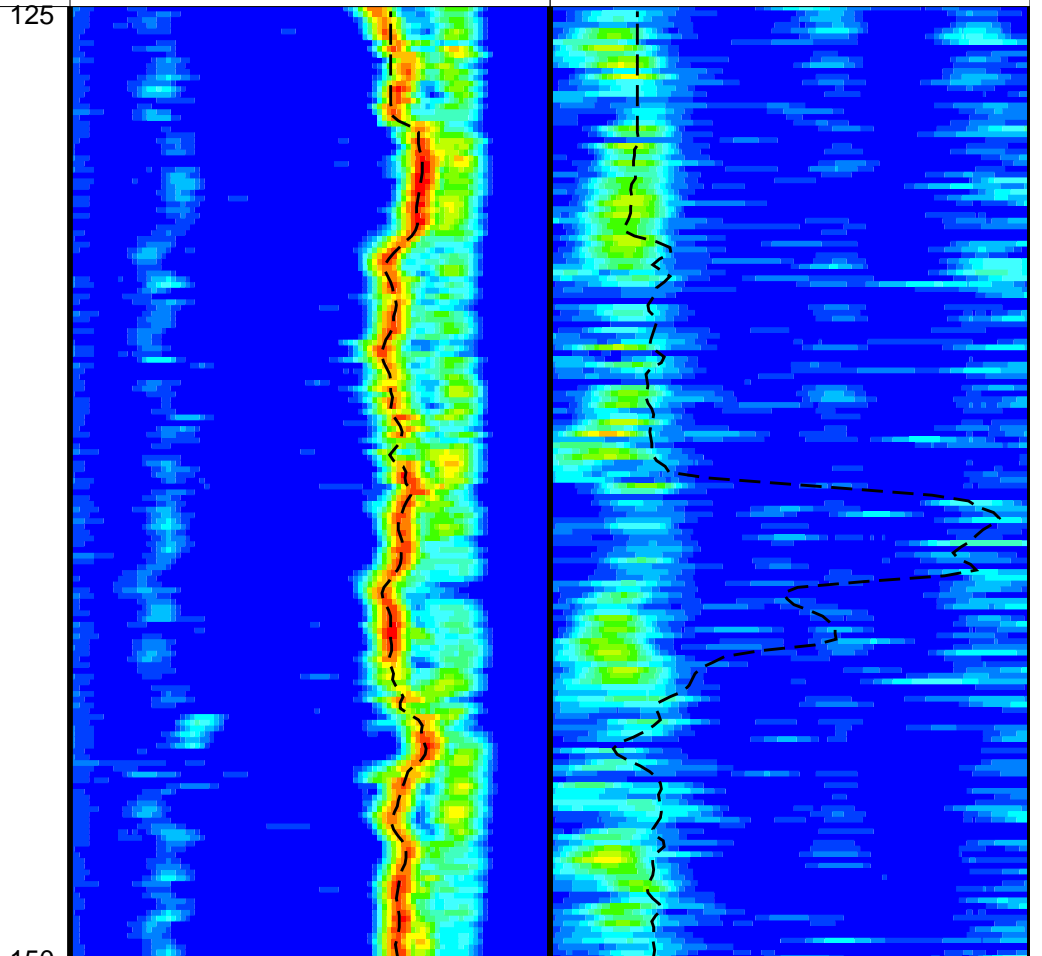
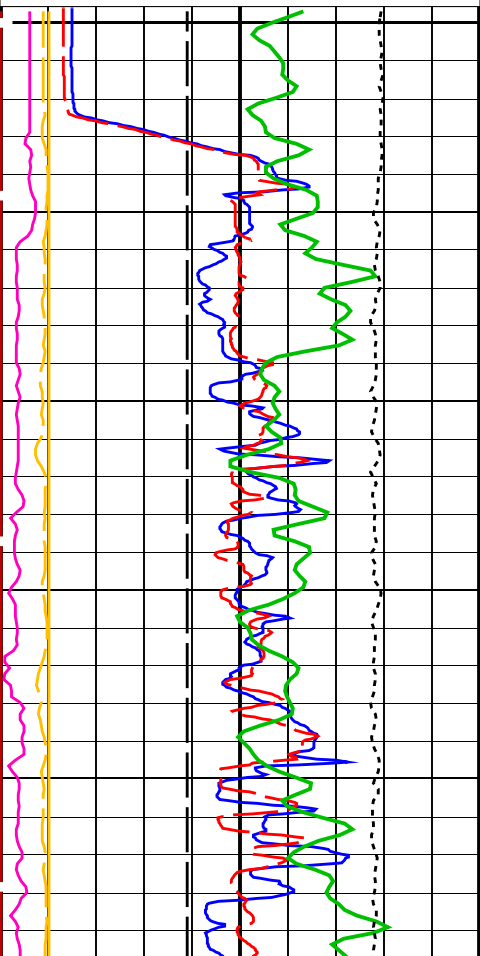
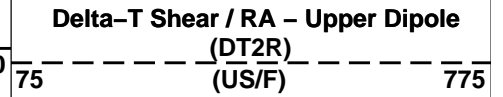
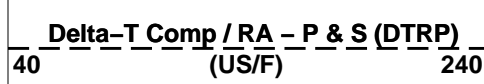
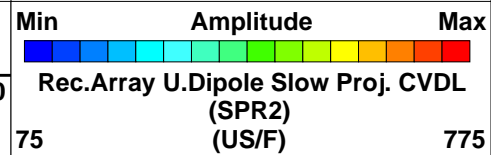
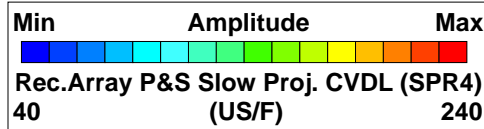
MEST–B	19C0–187	DTA–A	19C0–187
DSST–B	19C0–187	EDTC–B	19C0–187

PIP SUMMARY

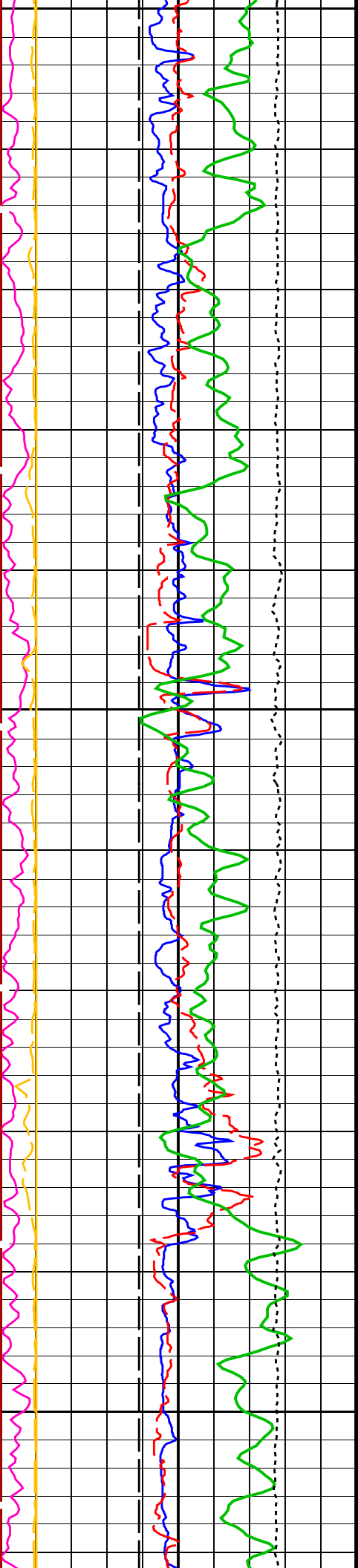
Time Mark Every 60 S

<b>Waveform Data Copy Indicator 4 – Monopole P&amp;S (WCI4)</b>		
0	(----)	10
<b>Peak Coherence / RA – P &amp; S Shear (CHRS)</b>		
-1	(----)	9
<b>Peak Coherence / RA – P &amp; S Comp (CHRP)</b>		
0	(----)	10
<b>Peak Coherence / RA – Upper Dipole (CHR2)</b>		
0	(----)	10
<b>Gamma Ray (GR_EDTC) (GAPI)</b>		
0		75
<b>Tension (TENS) (LBF)</b>		
10000		0
<b>Caliper 1 (C1) (IN)</b>		
0		20
<b>Caliper 2 (C2) (IN)</b>		
0		20
<b>Bit Size (BS) (IN)</b>		
6		16

Pass #1, Seafloor reference depth



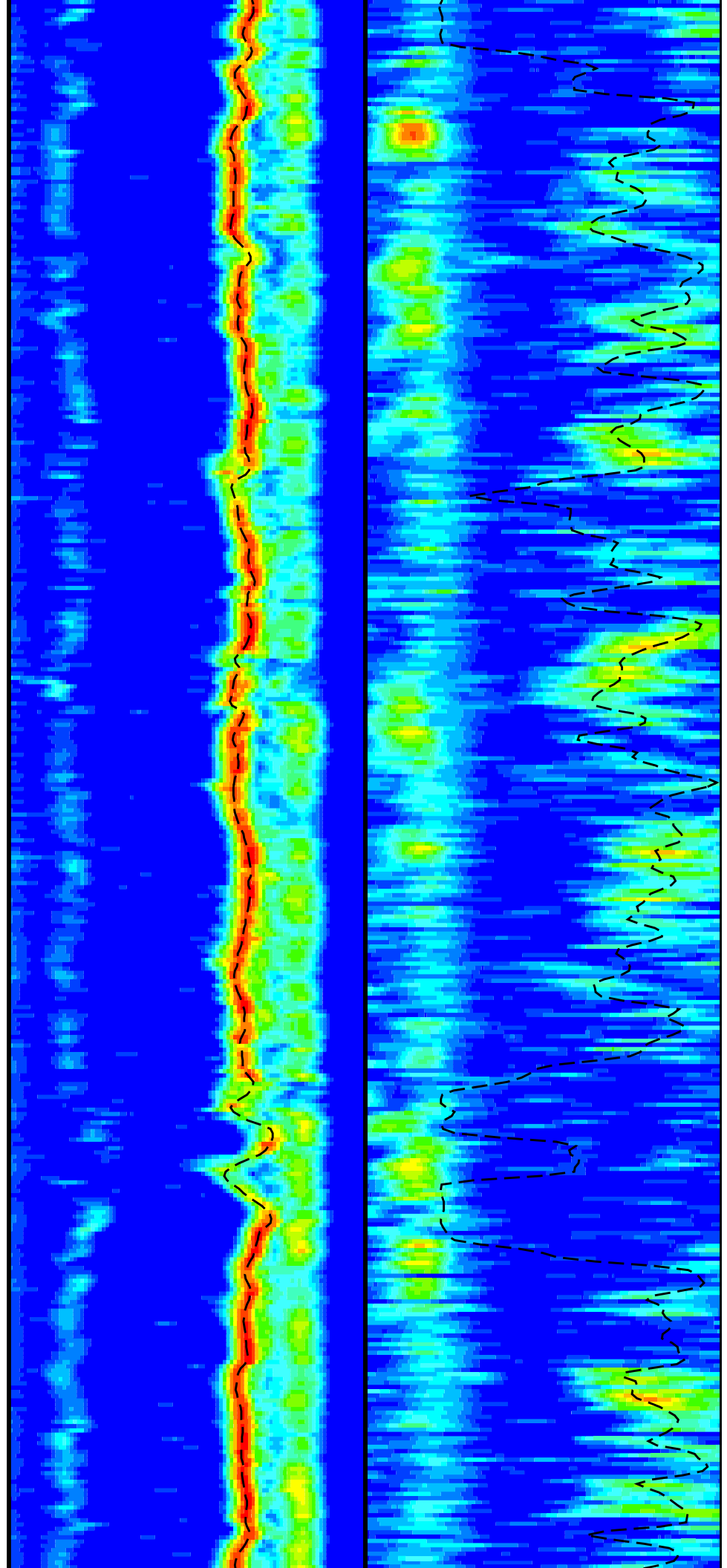




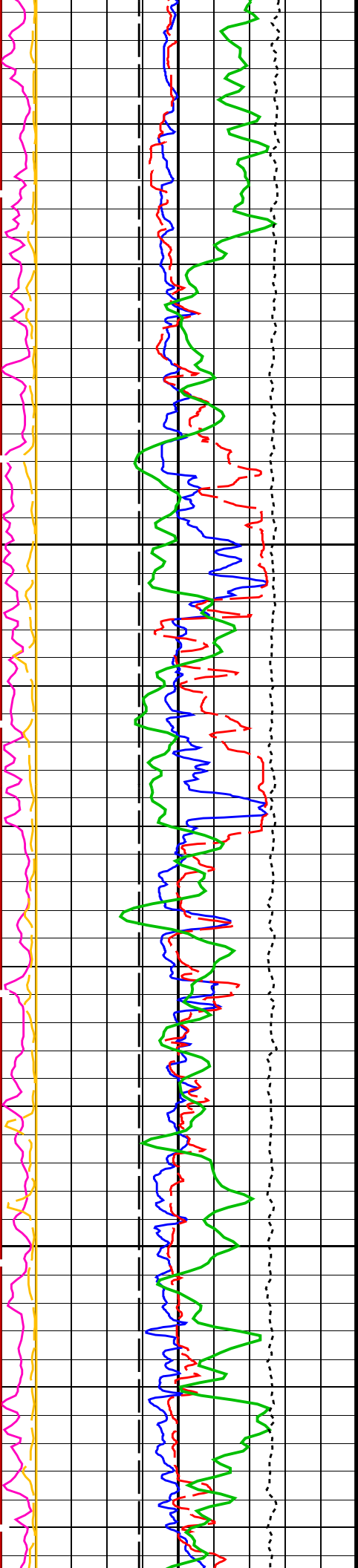
150

175

200

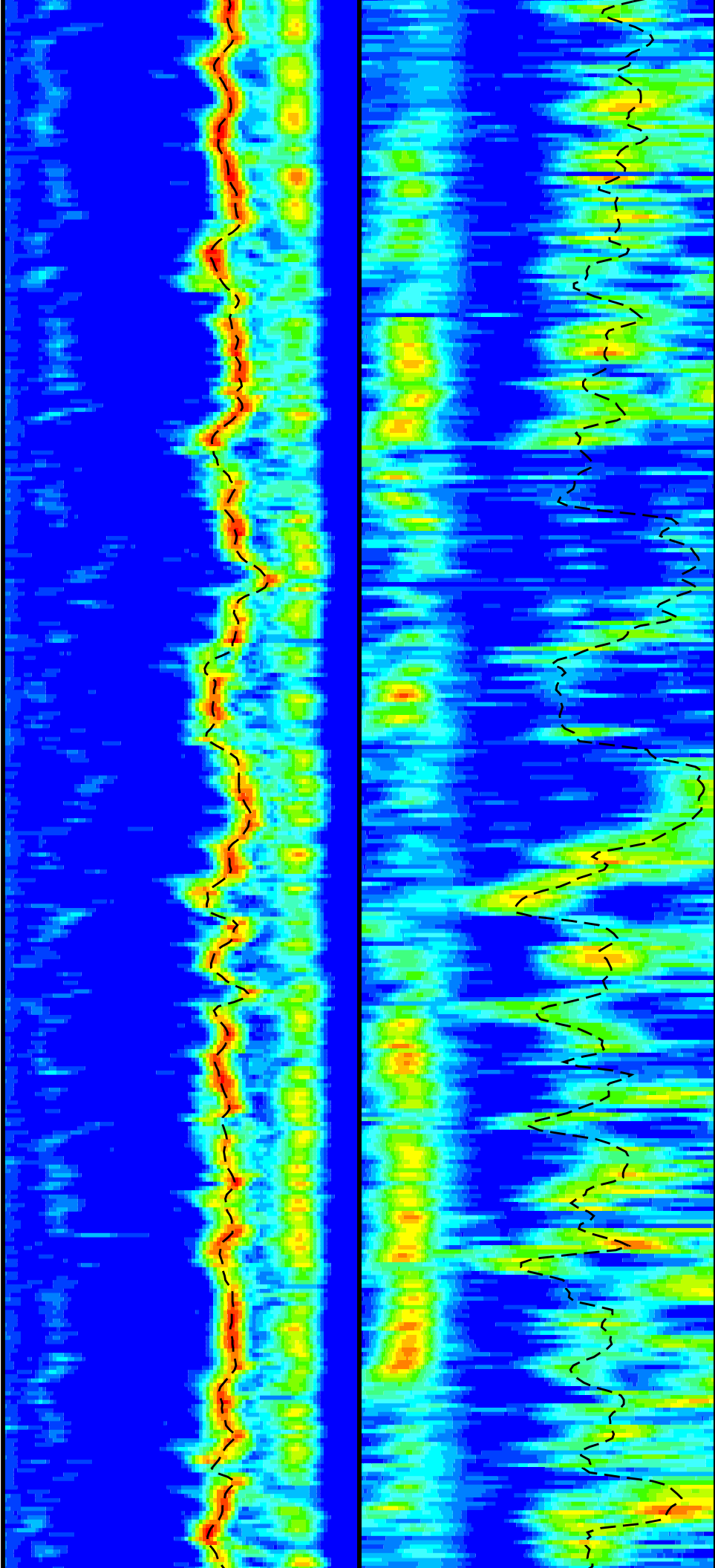


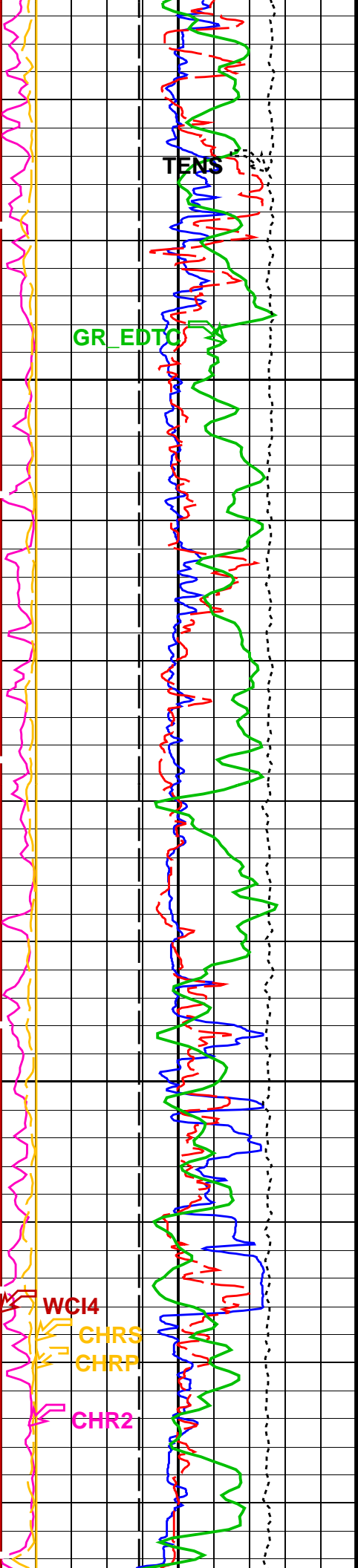




225

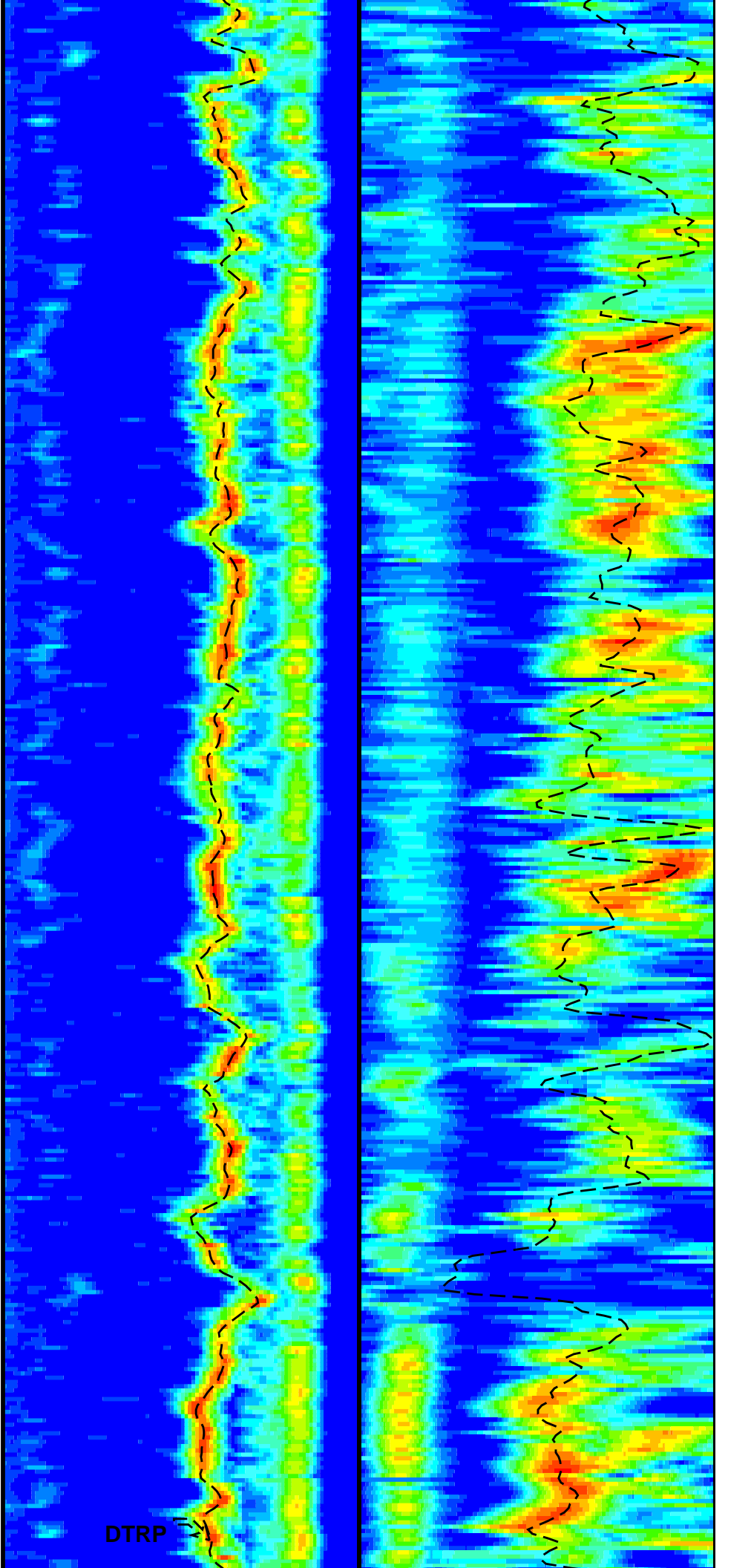
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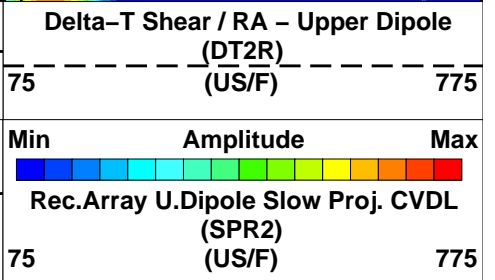
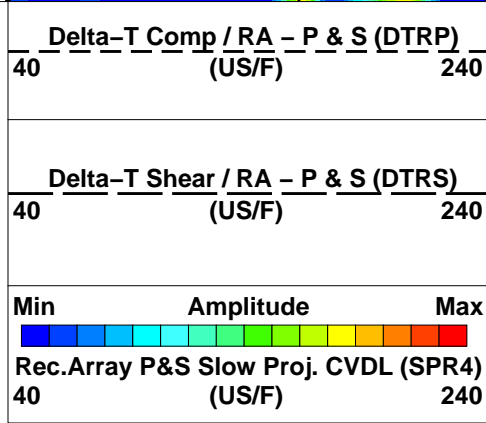
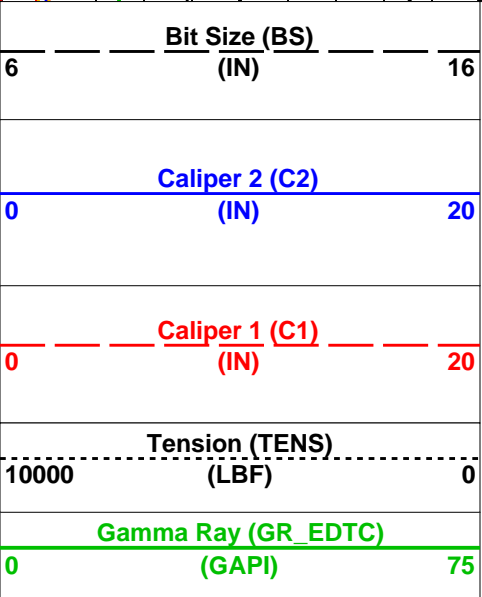
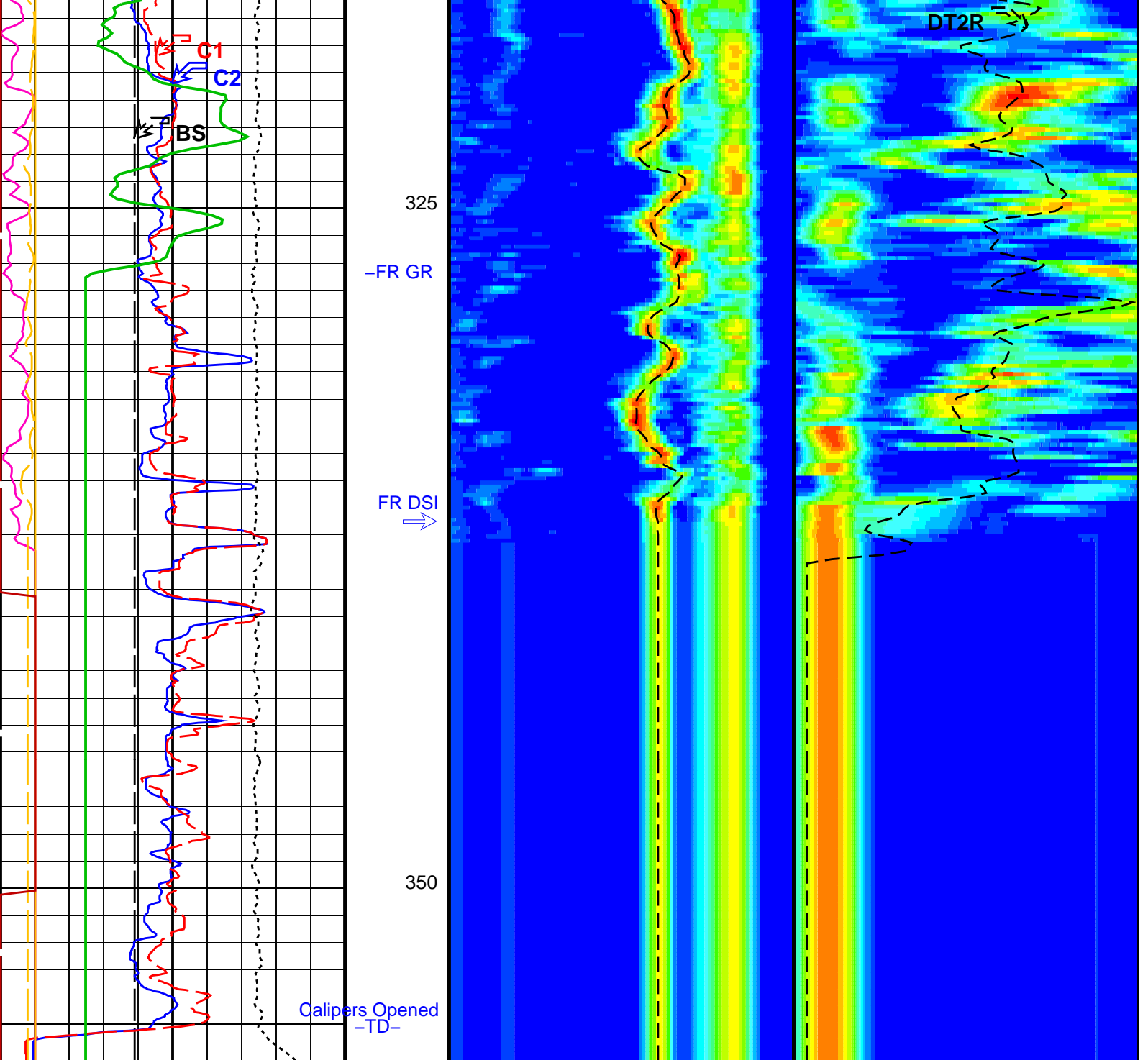


275

300



DTRP



Pass #1, Seafloor reference depth

0	(----)	10
Peak Coherence / RA – P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(----)	9
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(----)	10

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function – Monopole P&S	50
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	130 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	190 US/F
DDE2	Digitizing Delay 2	0 US
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	775 US/F
DSI2	Digitizer Sample Interval 2	40 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTF	Delta-T Fluid	189 US/F
DWC2	Digitizer Word Count 2	512
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	512
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR
LFC	Label Formation Character – Monopole P&S	DYNAMIC
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NWI2	Number Waveform Items 2	8
NWI4	Number Waveform Items 4	8
NWIX	Number Waveform Items X	0
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF
SAS2	STC Sonic Array Status – Upper Dipole	255
SAS4	STC Sonic Array Status – Monopole P&S	255
SBO2	STC Search Band Offset – Upper Dipole	3000 US
SBO4	STC Search Band Offset – Monopole P&S	500 US
SBR4	STC Baseline Removal – Monopole P&S	ON
SBW2	STC Search Bandwidth – Upper Dipole	800 US
SBW4	STC Search Bandwidth – Monopole P&S	2000 US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE
SFC4	STC Formation Character – Monopole P&S	SELECTABLE
SFM2	STC Filter – Upper Dipole	B1-2K
SFM4	STC Filter – Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	230 US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240 US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	75 US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40 US/F
SST2	STC Slowness Step – Upper Dipole	4 US/F
SST4	STC Slowness Step – Monopole P&S	2 US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4

SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	180	US/F
STLL	Label Slowness Lower Limit – Monopole Stoneley		780	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley		775	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole		240	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S		40	US/F
SWD2	STC Slowness Width – Upper Dipole		10	US/F
SWD4	STC Slowness Width – Monopole P&S		0	US
TBF2	STC Time for Baseline Fill – Upper Dipole		300	US
TBF4	STC Time for Baseline Fill – Monopole P&S		600	US
TLL2	STC Time Lower Limit – Upper Dipole		150	US
TLL4	STC Time Lower Limit – Monopole P&S		200	US
TST2	STC Time Step – Upper Dipole		50	US
TST4	STC Time Step – Monopole P&S		15525	US
TUL2	STC Time Upper Limit – Upper Dipole		3660	US
TUL4	STC Time Upper Limit – Monopole P&S		2000	US
TWD2	STC Time Width – Upper Dipole		1000	US
TWD4	STC Time Width – Monopole P&S		1600	US
TWI2	STC Integration Time Window – Upper Dipole		500	US
TWI4	STC Integration Time Window – Monopole P&S		0	
TWSX	Transmitter Waveform Select X		162	IN
UTXG	Upper Dipole Transmitter Geometry		W1	
WFM4	Waveform Mode 4			
BHS	EDTC–B: Enhanced DTS Cartridge Borehole Status		OPEN	
BS	System and Miscellaneous Bit Size		9.875	IN
DO	Depth Offset for Playback		-653.3	M
PP	Playback Processing		NORMAL	

Format: DSST\_P\_S\_UPPER\_VDL\_COLOR Vertical Scale: 1:200 Graphics File Created: 27-Dec-2011 03:56

### OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	EDTC-B	19C0-187

### Input DLIS Files

DEFAULT	FMS_DSI_024LUP	FN:37	PRODUCER	24-Dec-2011 07:05	1009.6 M	777.8 M
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### Output DLIS Files

DEFAULT	FMS_DSI_053PUP	FN:72	PRODUCER	27-Dec-2011 03:56
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### 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 27-Nov-2011 1:38							
Caliper 1 Zero Measurement	11.88	N/A	11.99	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	11.88	N/A	12.02	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.16	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.32	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 24-Dec-2011 4:27							
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: 24-Dec-2011 4:27							
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	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 17-Dec-2011 16:10							
EDTC Z-Axis Acceleration	9.810	N/A	9.825	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: Calibration out of date 26-Nov-2011 0:18							

Before: Calibration out of date	26-Nov-2011 0:18							
Gamma Ray (Jig - Bkg)	163.8	N/A	163.8	N/A	N/A	14.89	GAPI	
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	15.00	GAPI	

Micro Electrical Scanner - B (Slim) / Equipment Identification

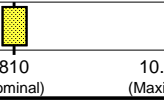
Primary Equipment:		
MEST Sonde - B	MEDS - B	770
MEST Preamplifier Cartridge - AB	MEPC - AB	807
GPIT Cartridge - A	GPIC - A	840
MEST Acquisition Cartridge - A	MEAC - A	875
Auxiliary Equipment:		
MEST-B Preamplifier Cartridge Housing	MEPH - A	702
MEST Acquisition Cartridge Housing (Slim)	MEAH - B	726

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	77693
Enhanced DTS Cartridge	EDTC - B	8529
Auxiliary Equipment:		
EDTC Housing	EDTH - B	8528

Enhanced DTS Cartridge Wellsite Calibration

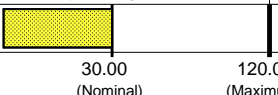
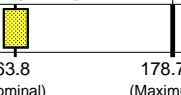
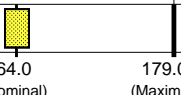
EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.825
	9.610 (Minimum)      9.810 (Nominal)      10.01 (Maximum)	

Before: 17-Dec-2011 16:10

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		9.201	Before		163.8	Before		164.0
	0 (Minimum)      30.00 (Nominal)      120.0 (Maximum)			148.9 (Minimum)      163.8 (Nominal)      178.7 (Maximum)			149.0 (Minimum)      164.0 (Nominal)      179.0 (Maximum)	

Before: Calibration out of date 26-Nov-2011 0:18

Company: **Lamont Doherty**

**Schlumberger**

Well: **Expedition 339, Site U1389GC-11A**

Field: **Mediterranean Outflow (Portugal)**

Rig: **JOIDES Resolution**

Ocean: **Atlantic**

Dipole Shear Sonic  
P&S Compressional & Dipole Shear  
Gamma Ray