

DISCLAIMER

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OTHER SERVICES1
 OS1: FMS/DSI
 OS2: HNGS
 OS3: HLDS
 OS4: HRLA
 OS5: UBI

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

REMARKS: RUN NUMBER 1
 Hole was drilled with a 9 7/8" RCB bit to TDD of mbsf.
 10 bbls of 10.5lb/gal heavy weight mud pumped at TD prior to bit release.
 Labeling of monopole or dipole sonic slowness may not be correct in field data.
 Further processing with BestDT required to correct the labeling of the slowness in the time coherency plot (STC).

 All logs recorded via wireline thru 5-5.5" drillpipe and RCB coring BHA consisting of a bit release sub, Kinley sub, drill collars. The bit was released at TD prior to logging.

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

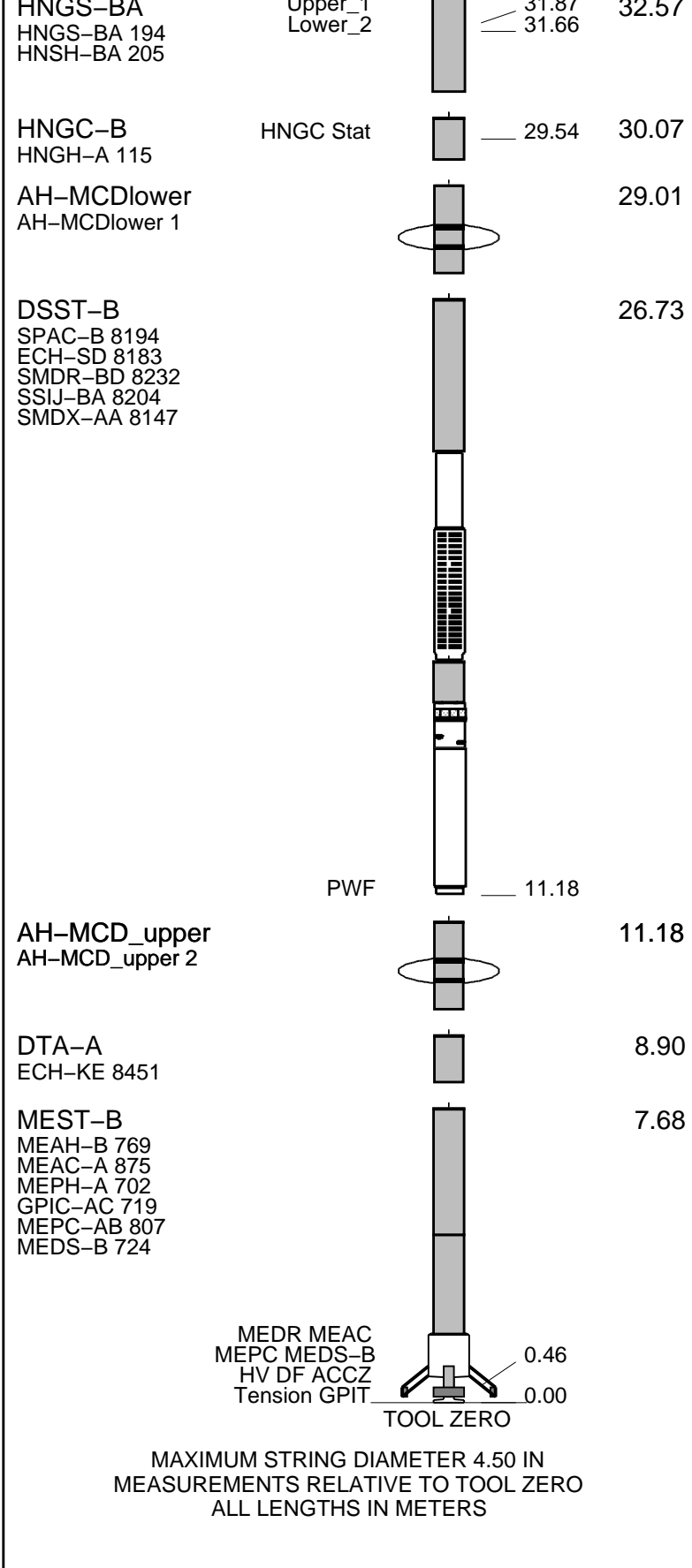
SURFACE EQUIPMENT

GSR-U 616008
 WITM (EDTS)-A 1

RUN 2

DOWNHOLE EQUIPMENT

LEH-MT	MDSB_EDTC		34.55	35.51
LEH-MT 101	Mud Tempe		33.49	
EDTC-B	CTEM		32.92	34.55
EDTH-B 8528	Gamma Ray		32.57	
EDTC-B 8529	EFTB DIAG			
EDTG-A/B 77693	TelStatus			
	EDTCB Ele			



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

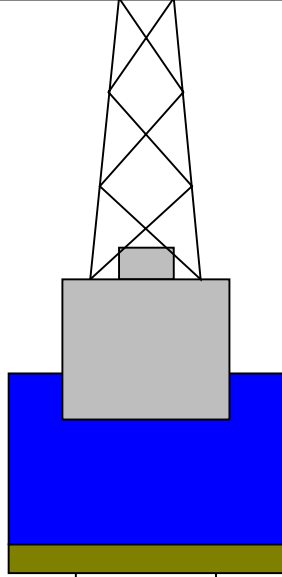
Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-2469

-2469

-2458



0

7.75

4.1

Sea Floor



0

8.25

3.80

Sea Floor

95.8

9.875

Open Hole

471.6

Total Depth

Company: Lamont Doherty

Well: Expedition 344, Site U1414A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_036LUP	FN:50	PRODUCER	10-Dec-2012 15:20	2882.6 M	2462.5 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_043PUP	FN:63	PRODUCER	10-Dec-2012 20:54	413.8 M	-6.4 M
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OP System Version: 19C0-187

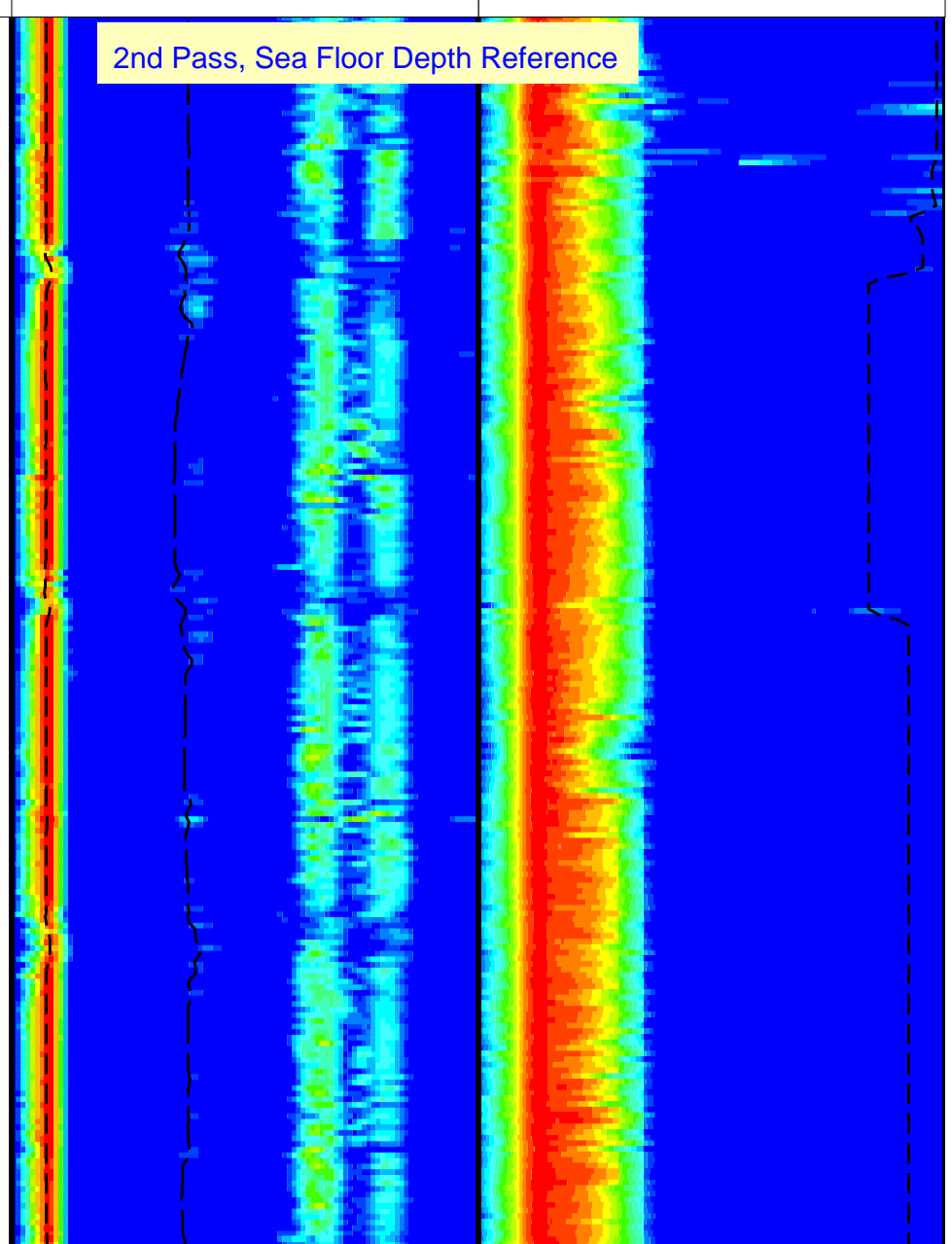
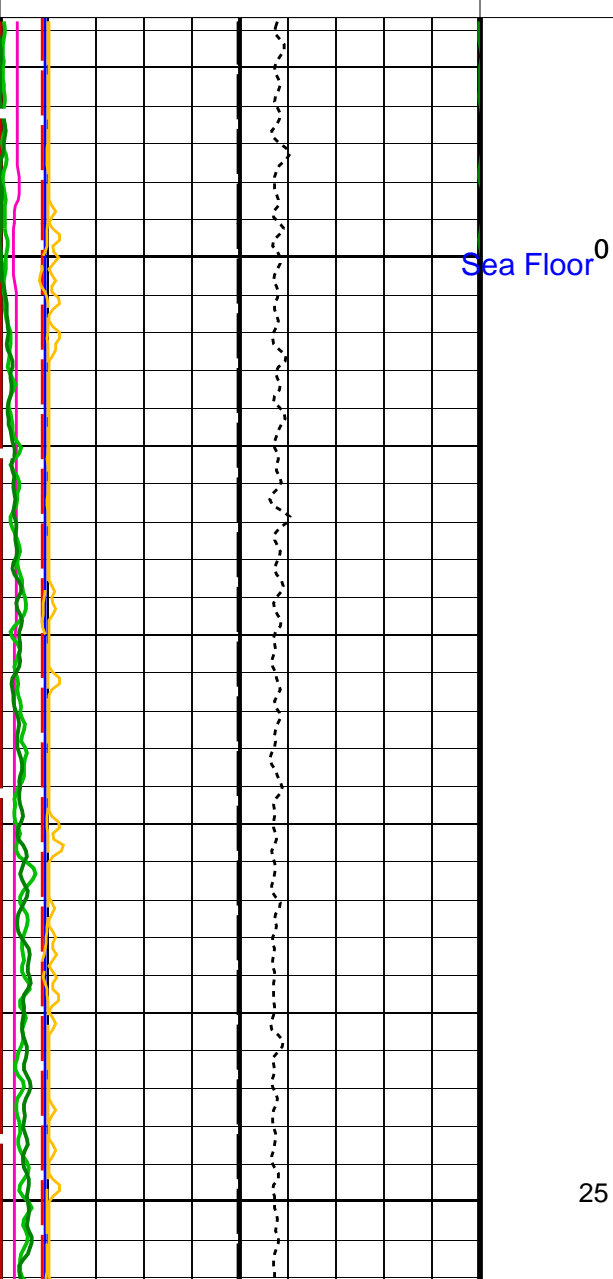
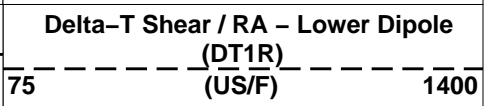
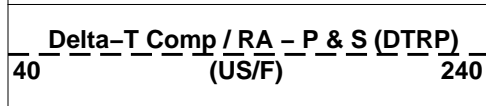
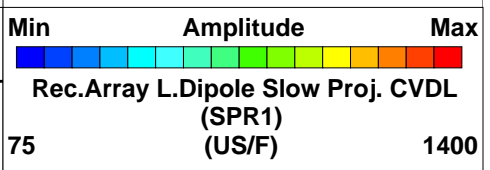
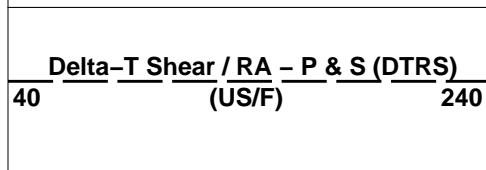
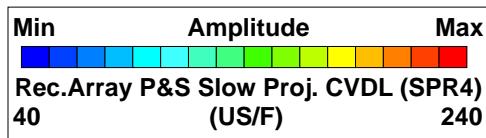
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

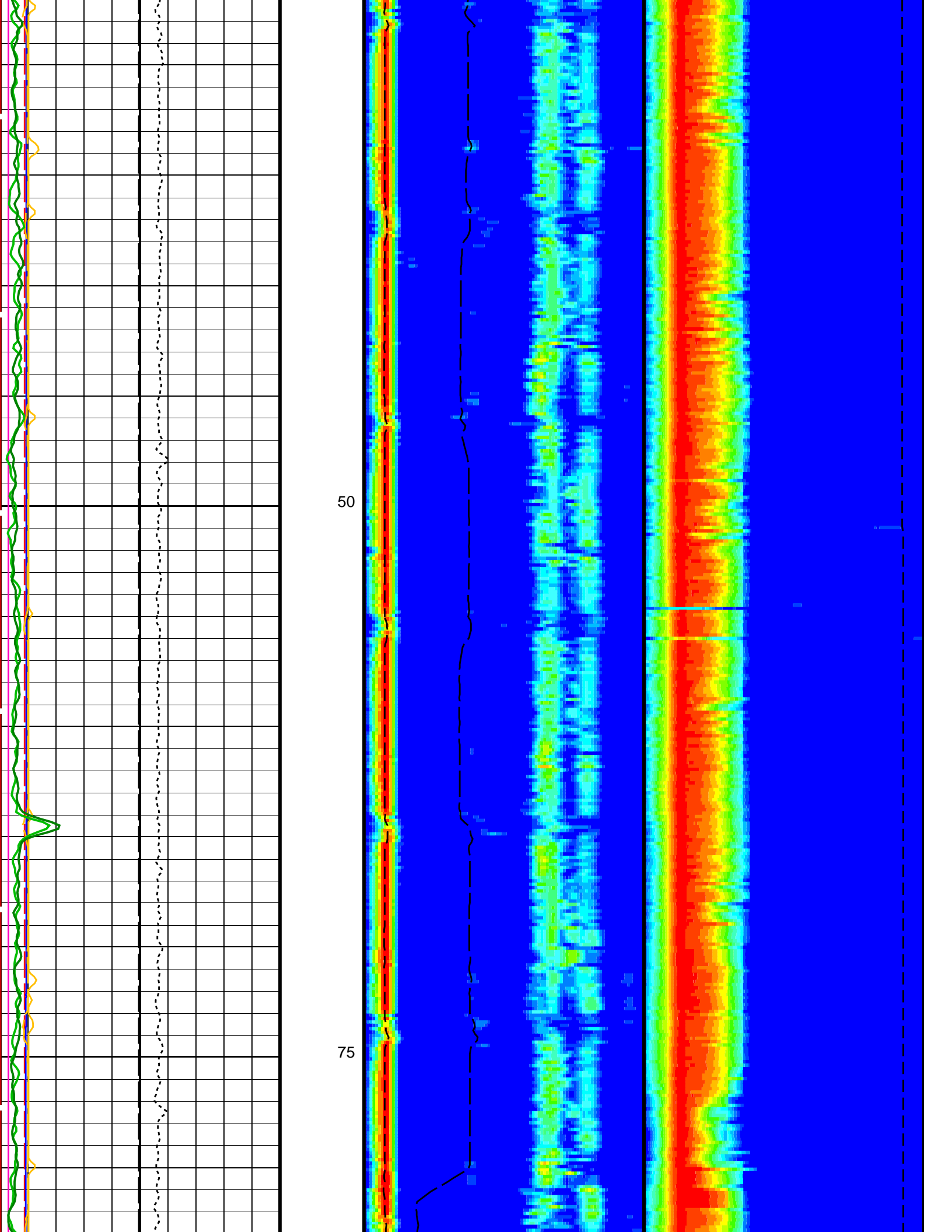
PIP SUMMARY

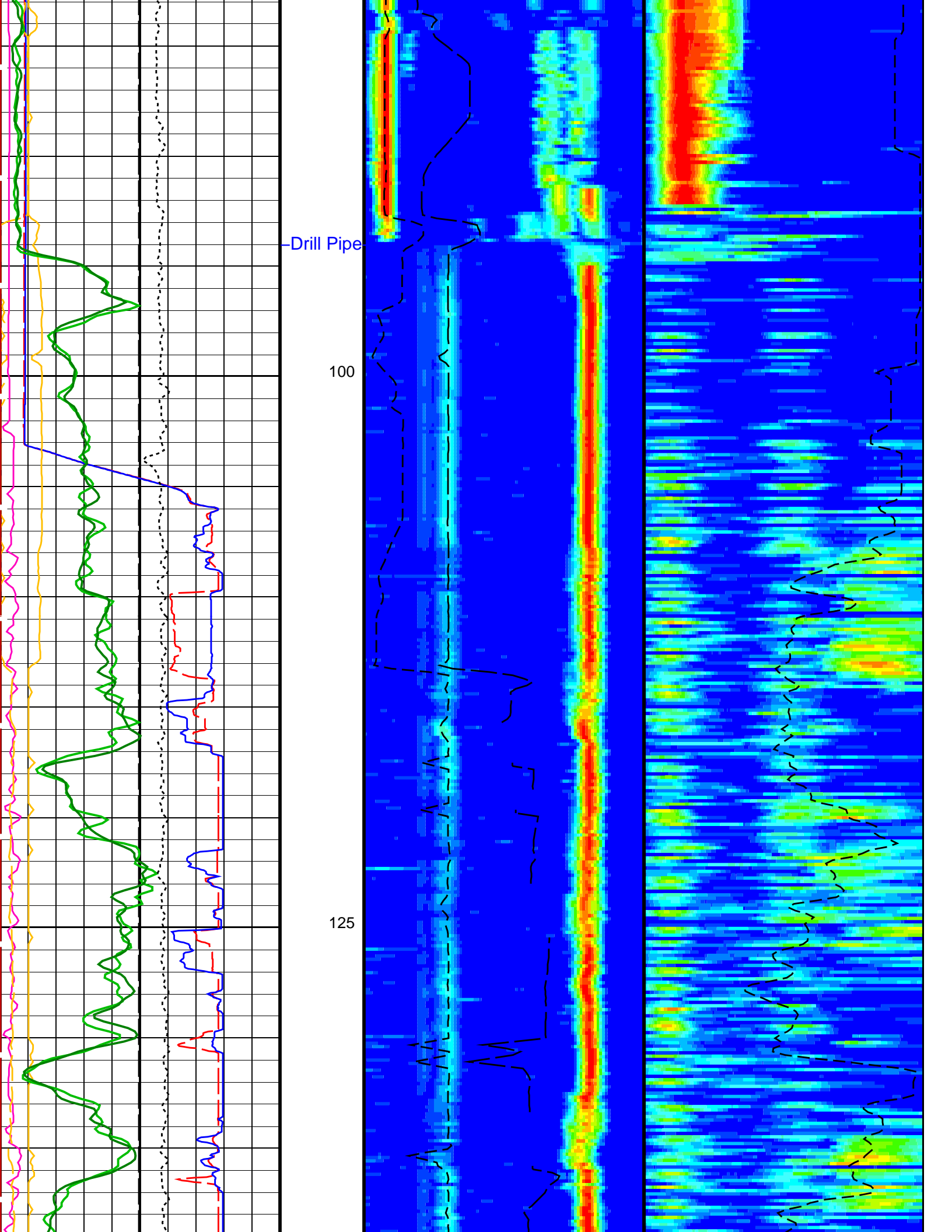
Time Mark Every 60 S

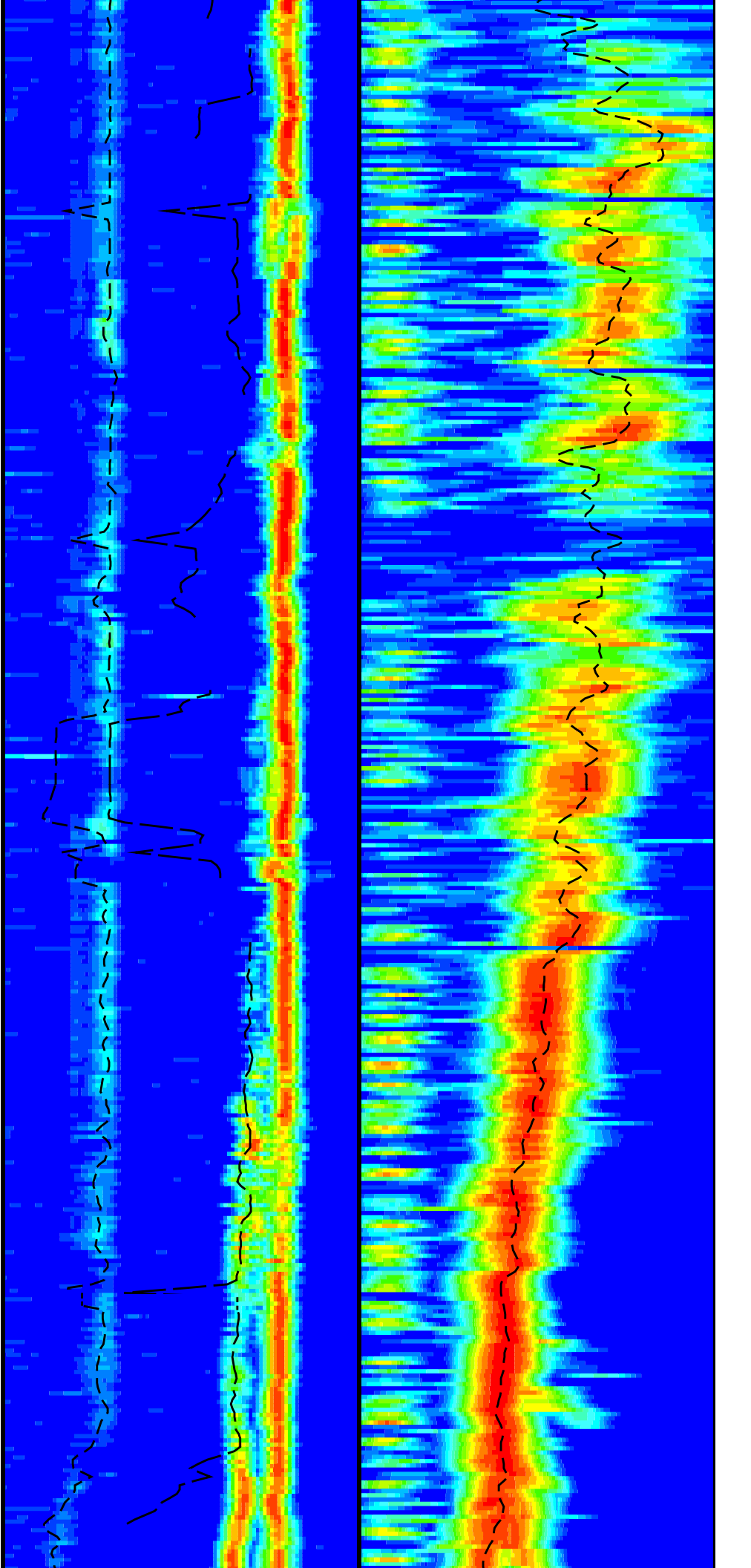
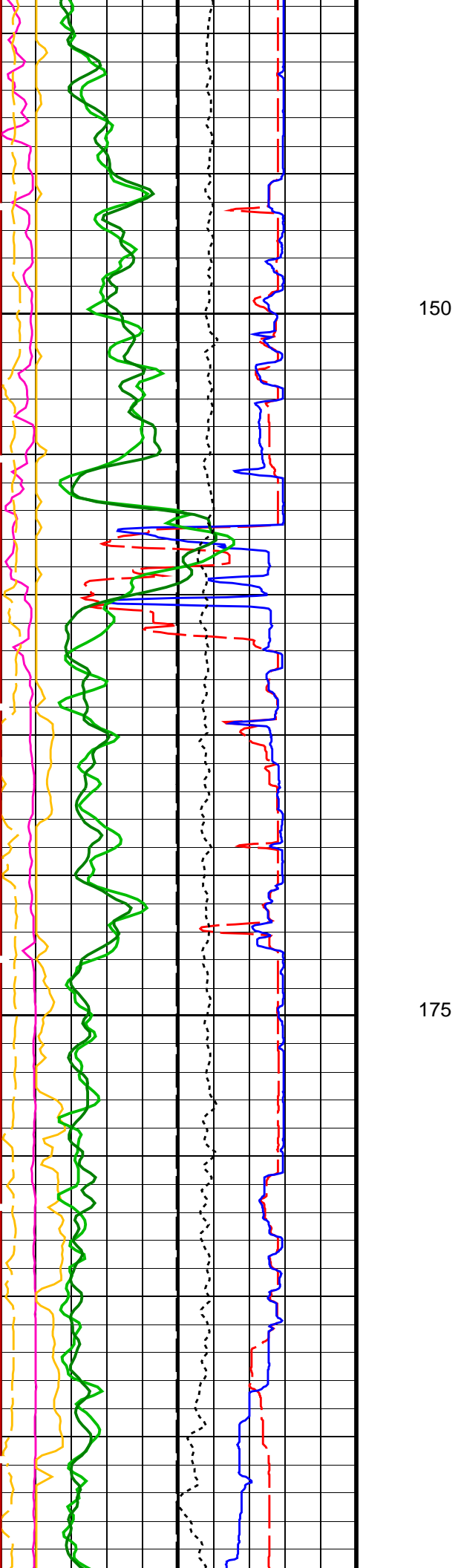
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	75
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(-----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(-----)	9

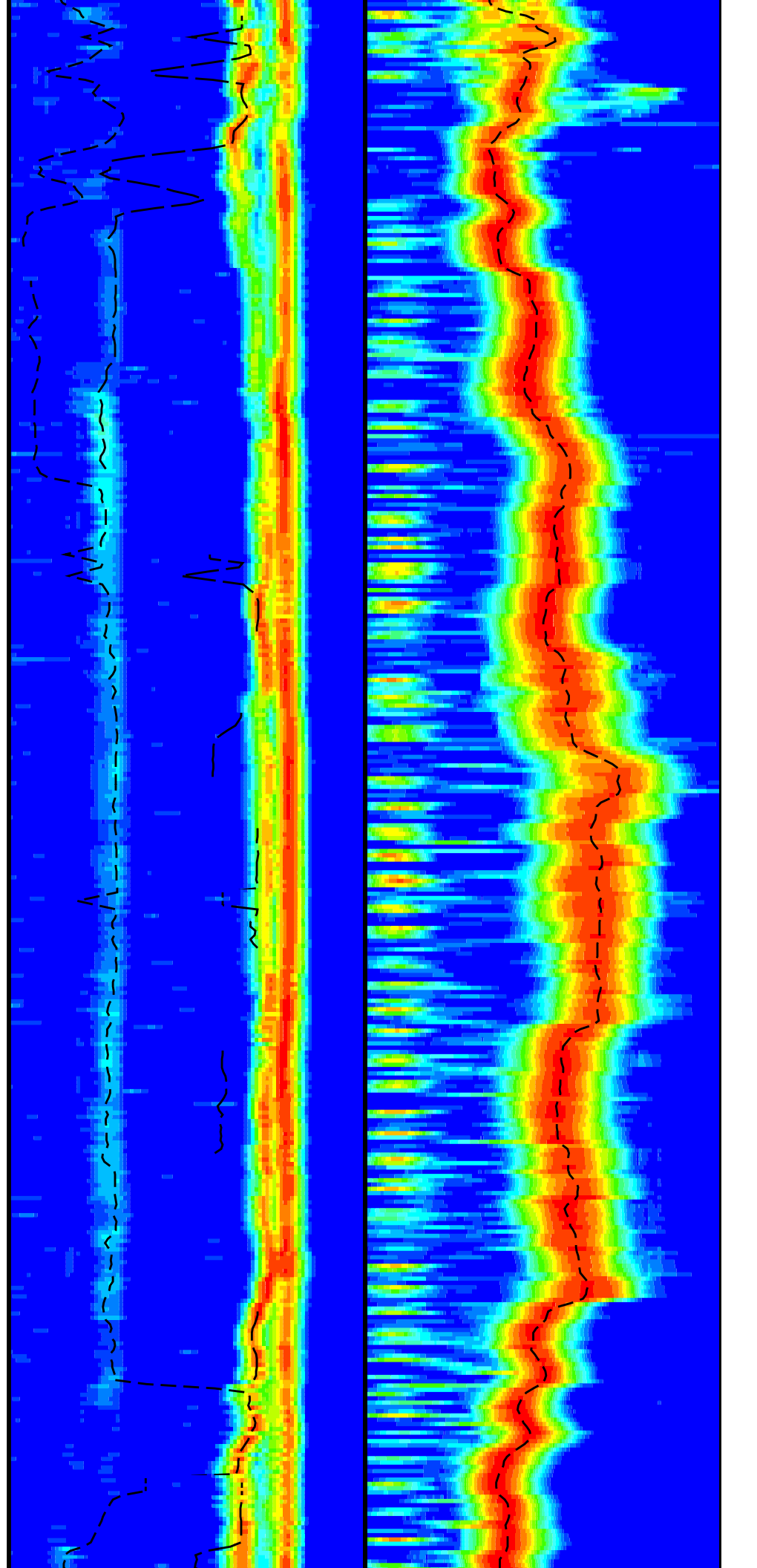
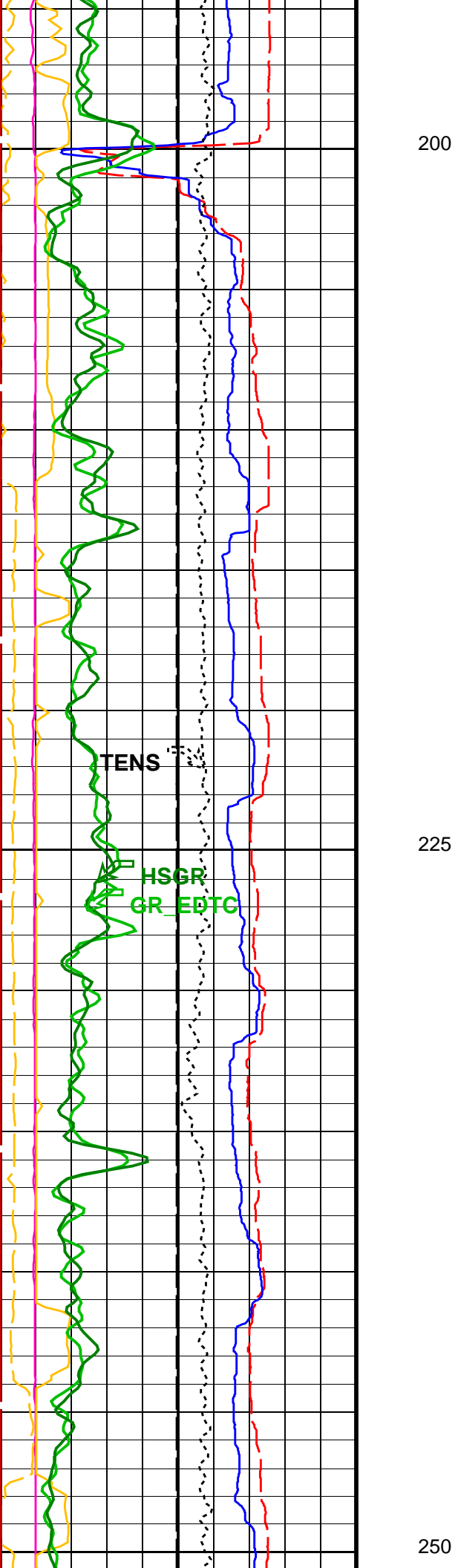
0	Peak Coherence / RA - P & S Comp (CHRP) (-----)	10
0	Peak Coherence / RA - Lower Dipole (CHR1) (-----)	10
0	Gamma Ray (GR_EDTC) (GAPI)	75
10000	Tension (TENS) (LBF)	0
0	Caliper 2 (C2) (IN)	20
0	Caliper 1 (C1) (IN)	20
0	Bit Size (BS) (IN)	20

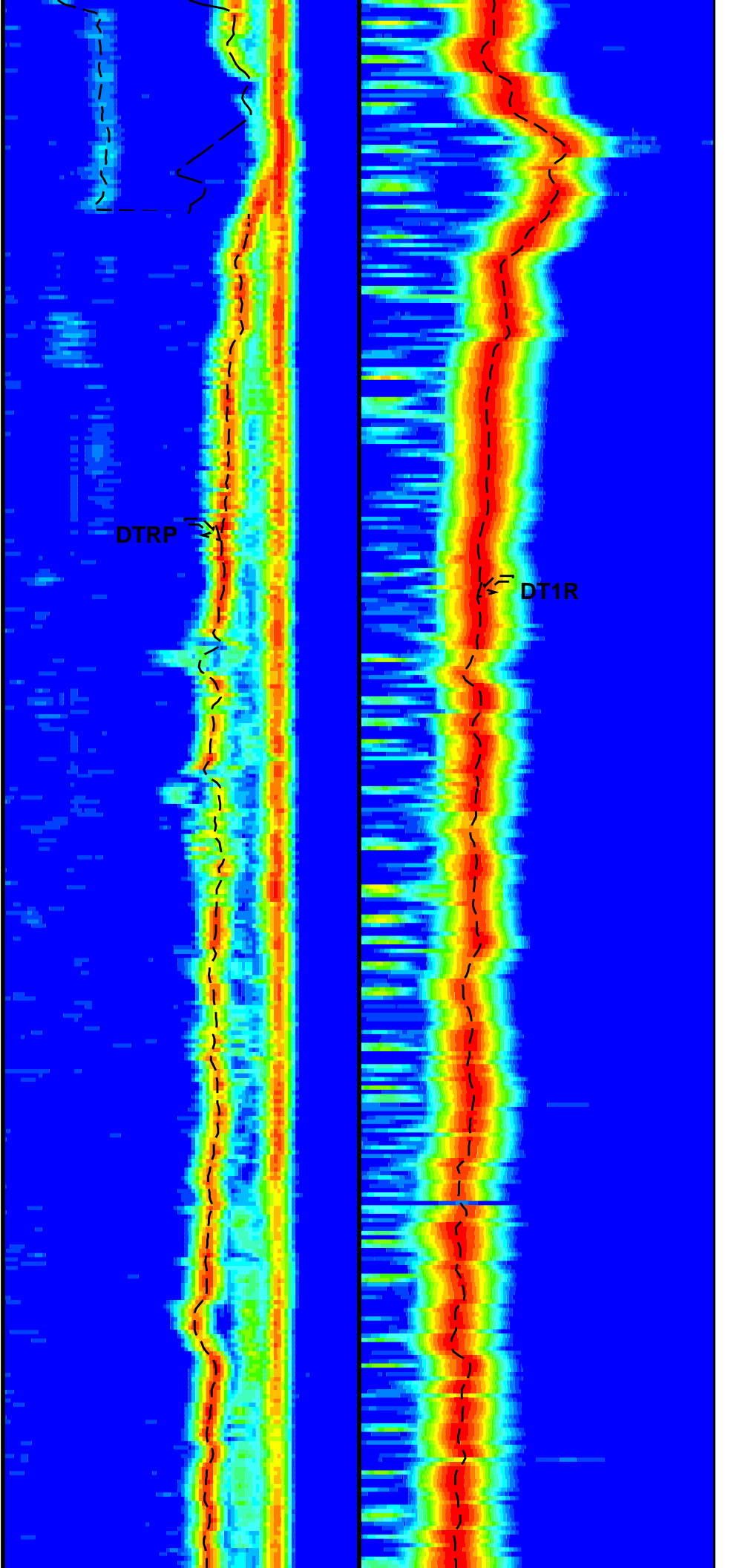
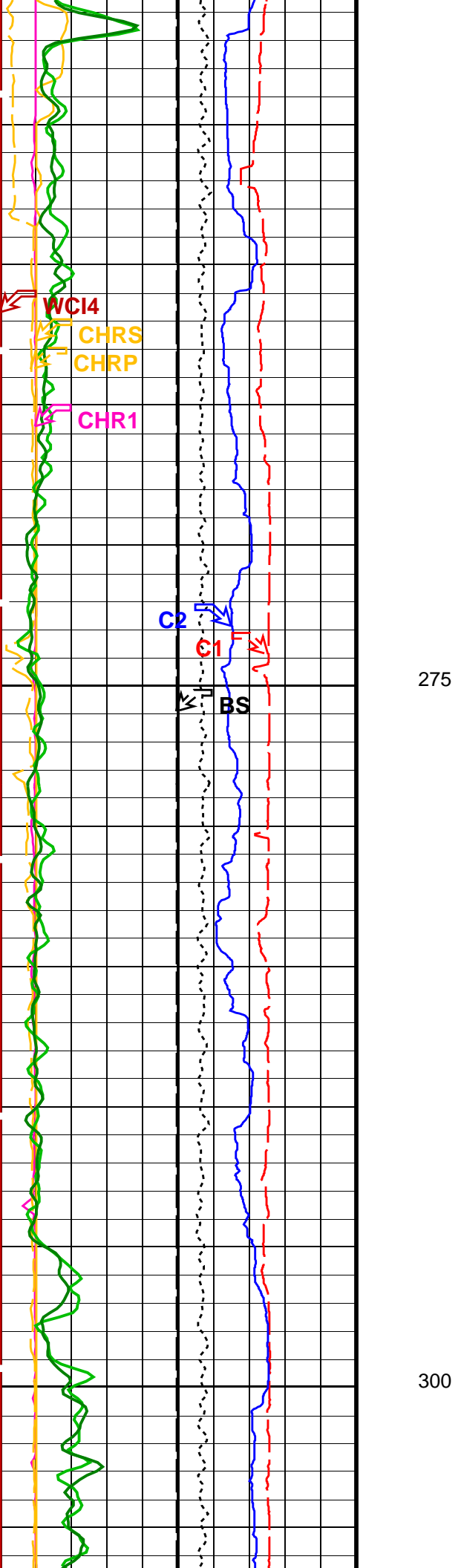


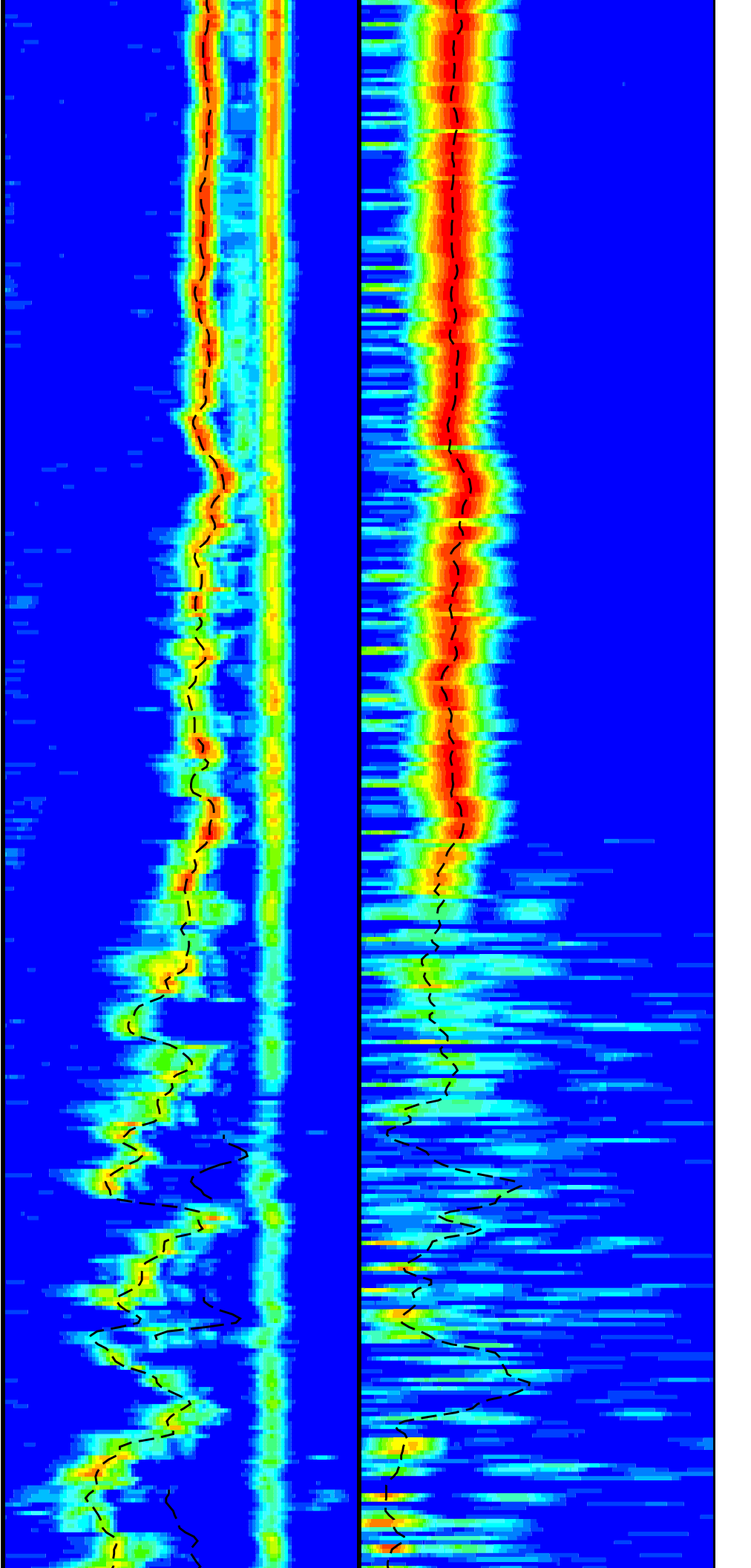
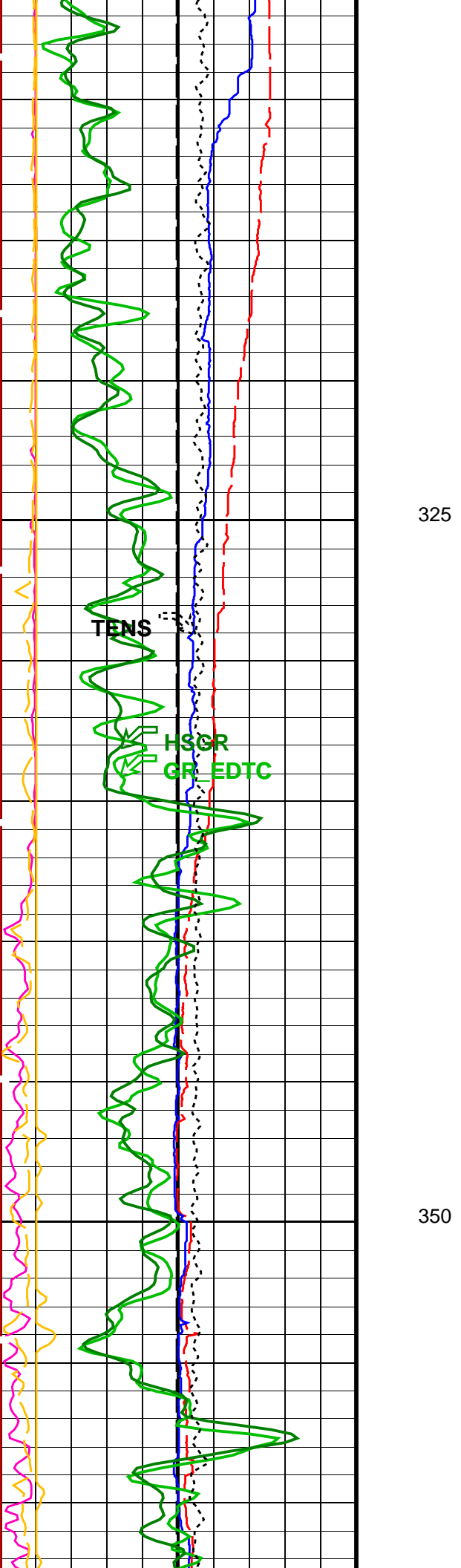


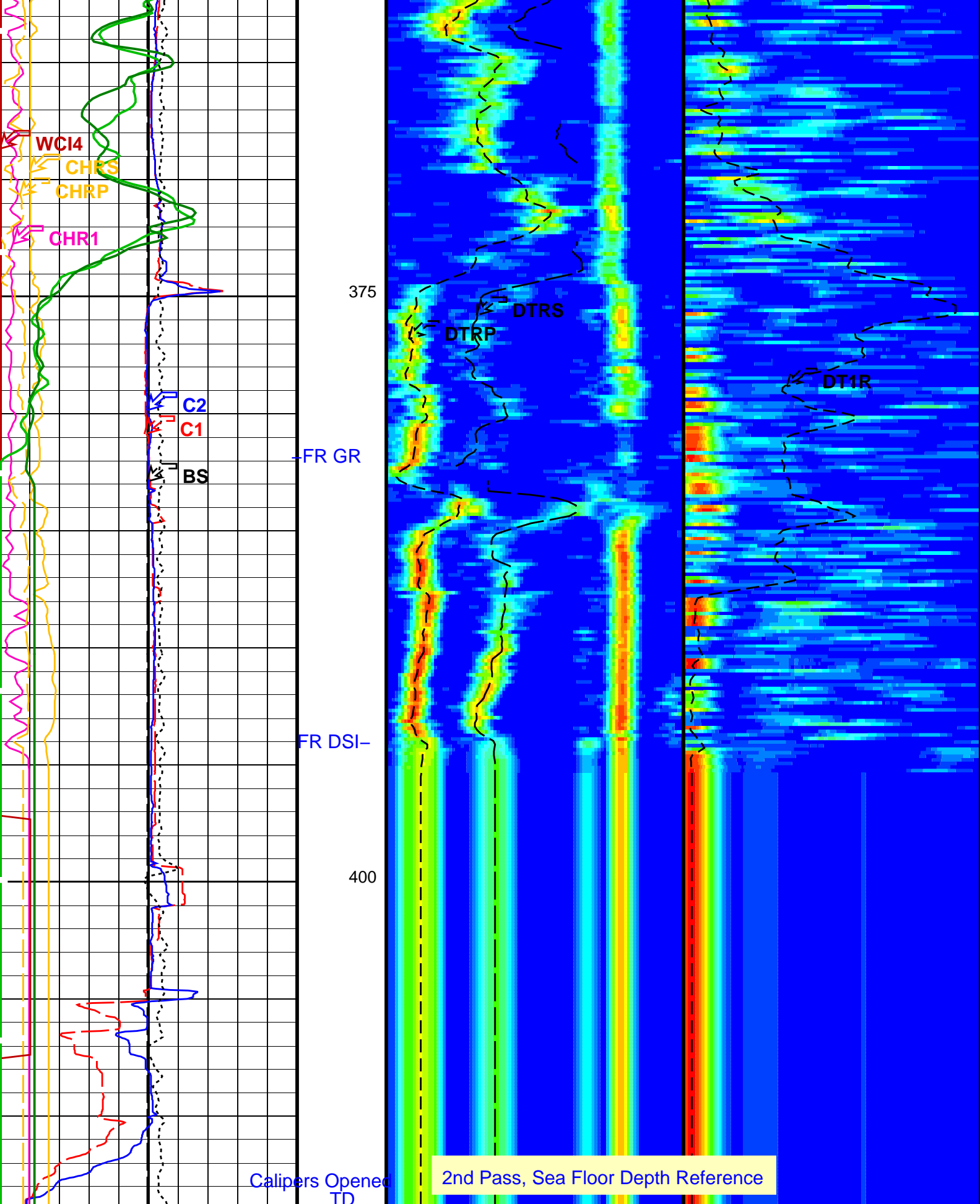












Bit Size (BS)
(IN) 20

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

Delta-T Shear / RA - Lower Dipole
(DT1R)
(US/F) 75 1400

Min Amplitude Max

Caliper 1 (C1)		
0	(IN)	20
Caliper 2 (C2)		
0	(IN)	20
Tension (TENS)		
10000	(LBF)	0
Gamma Ray (GR_EDTC)		
0	(GAPI)	75
Peak Coherence / RA – Lower Dipole (CHR1)		
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
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	75

Delta-T Shear / RA – P & S (DTRS)		
40	(US/F)	240
Min	Amplitude	Max
Rec.Array P&S Slow Proj. CVDL (SPR4)		
40	(US/F)	240

Rec.Array L.Dipole Slow Proj. CVDL (SPR1)		
75	(US/F)	1400

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	40 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	180 US/F
DDE1	Digitizing Delay 1	0 US
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1400 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCS Channel	PS_COMP
DTF	Delta-T Fluid	189 US/F
DWC1	Digitizer Word Count 1	512
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	512
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR
GCSE	Generalized Caliper Selection	BS
LFC	Label Formation Character – Monopole P&S	DYNAMIC
LTXG	Lower Dipole Transmitter Geometry	156 IN
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NWI1	Number Waveform Items 1	8
NWI4	Number Waveform Items 4	8
NWIX	Number Waveform Items X	0
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN

RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN	
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	180	US/F
LLL1	STC Slowness Lower Limit – Lower Dipole	75	US/F
LLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	780	US/F
SUL1	STC Slowness Upper Limit – Lower Dipole	1400	US/F
SUL4	STC Slowness Upper Limit – Monopole P&S	240	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD4	STC Slowness Width – Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF4	STC Time for Baseline Fill – Monopole P&S	300	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL4	STC Time Lower Limit – Monopole P&S	150	US
TST1	STC Time Step – Lower Dipole	200	US
TST4	STC Time Step – Monopole P&S	50	US
TUL1	STC Time Upper Limit – Lower Dipole	20440	US
TUL4	STC Time Upper Limit – Monopole P&S	3660	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00624076	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.35495	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05547	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	-2469.0	M
PP	Playback Processing	NORMAL	

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_036LUP	FN:50	PRODUCER	10-Dec-2012 15:20	2882.6 M	2462.5 M
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_043PUP	FN:63	PRODUCER	10-Dec-2012 20:54		

Company: Lamont Doherty Well: Expedition 344, Site U1414A

Input DLIS Files						
DEFAULT	FMS_DSI_NGS_036LUP	FN:50	PRODUCER	10-Dec-2012 15:20	2882.6 M	2462.5 M
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_043PUP	FN:63	PRODUCER	10-Dec-2012 20:54	413.8 M	-6.4 M

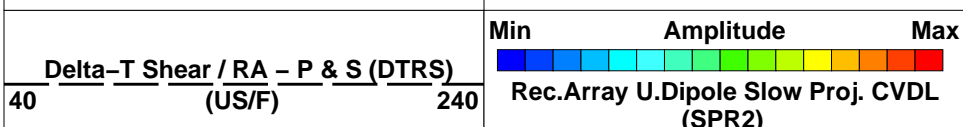
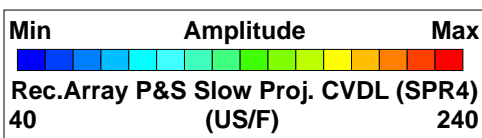
OP System Version: 19C0-187						
MEST-B	19C0-187	DTA-A	19C0-187			
DSST-B	19C0-187	HNGC-B	19C0-187			
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB			

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	75
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / RA - Upper Dipole (CHR2)		
0	(----)	10
HNGS Computed Gamma Ray (HCGR)		
0	(GAPI)	75
Gamma Ray (GR_EDTC)		
0	(GAPI)	75
Tension (TENS)		
10000	(LBF)	0
Caliper 1 (C1)		
0	(IN)	20
Caliper 2 (C2)		
0	(IN)	20

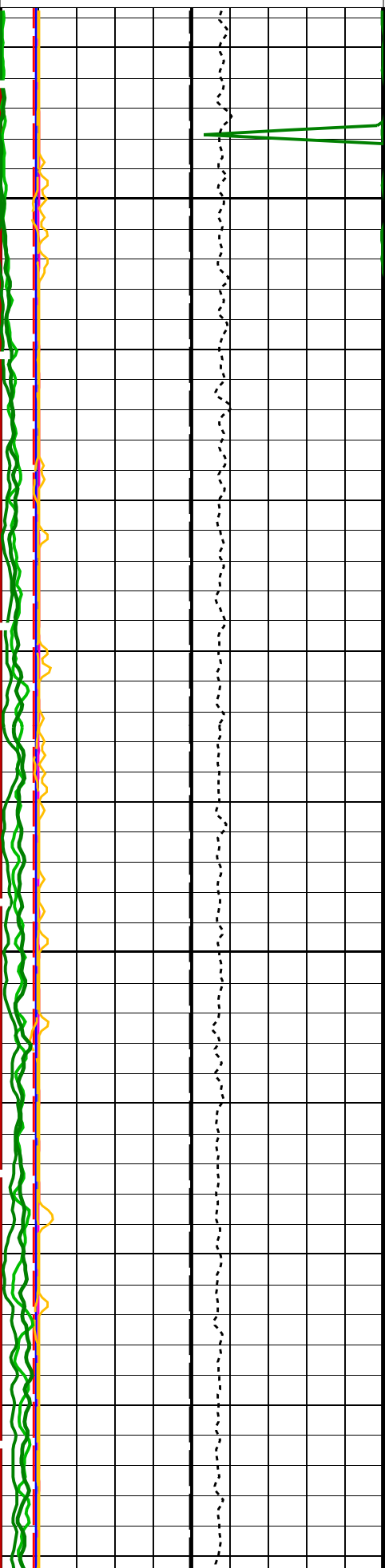
2nd Pass, Sea Floor Depth Reference



Bit Size (BS)
(IN) 0 20

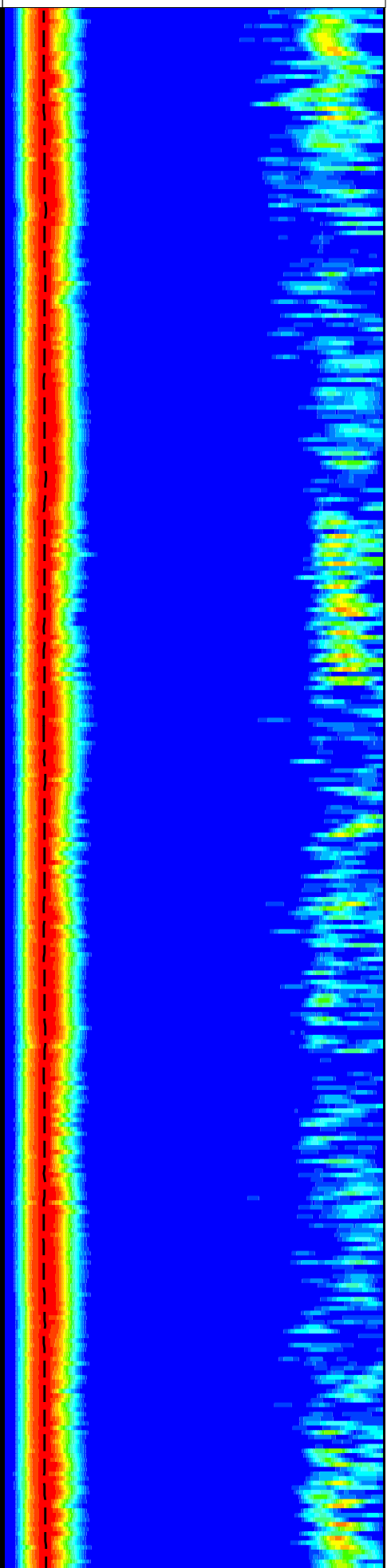
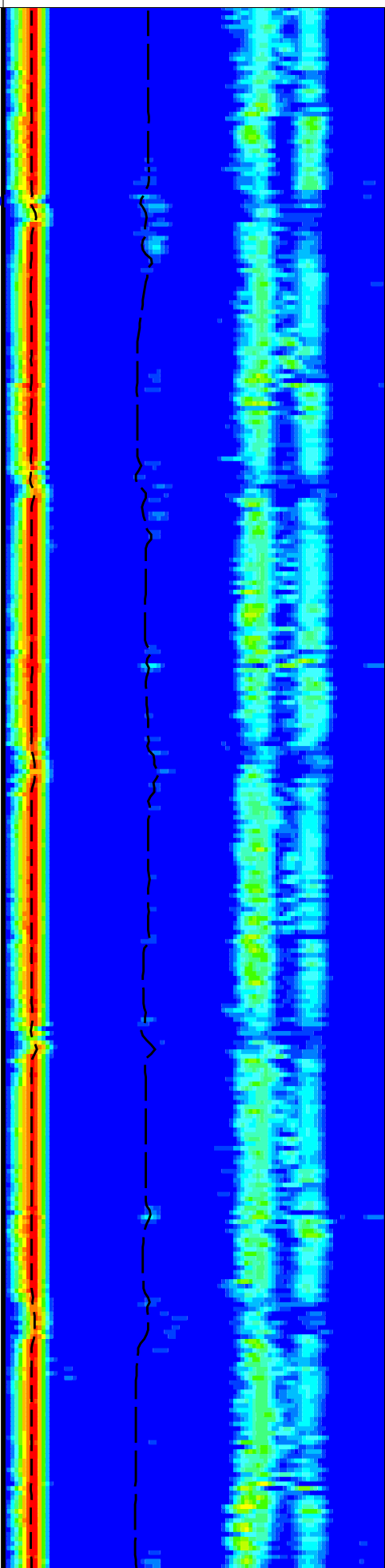
Delta-T Comp / RA - P & S (DTRP)
(US/F) 40 240

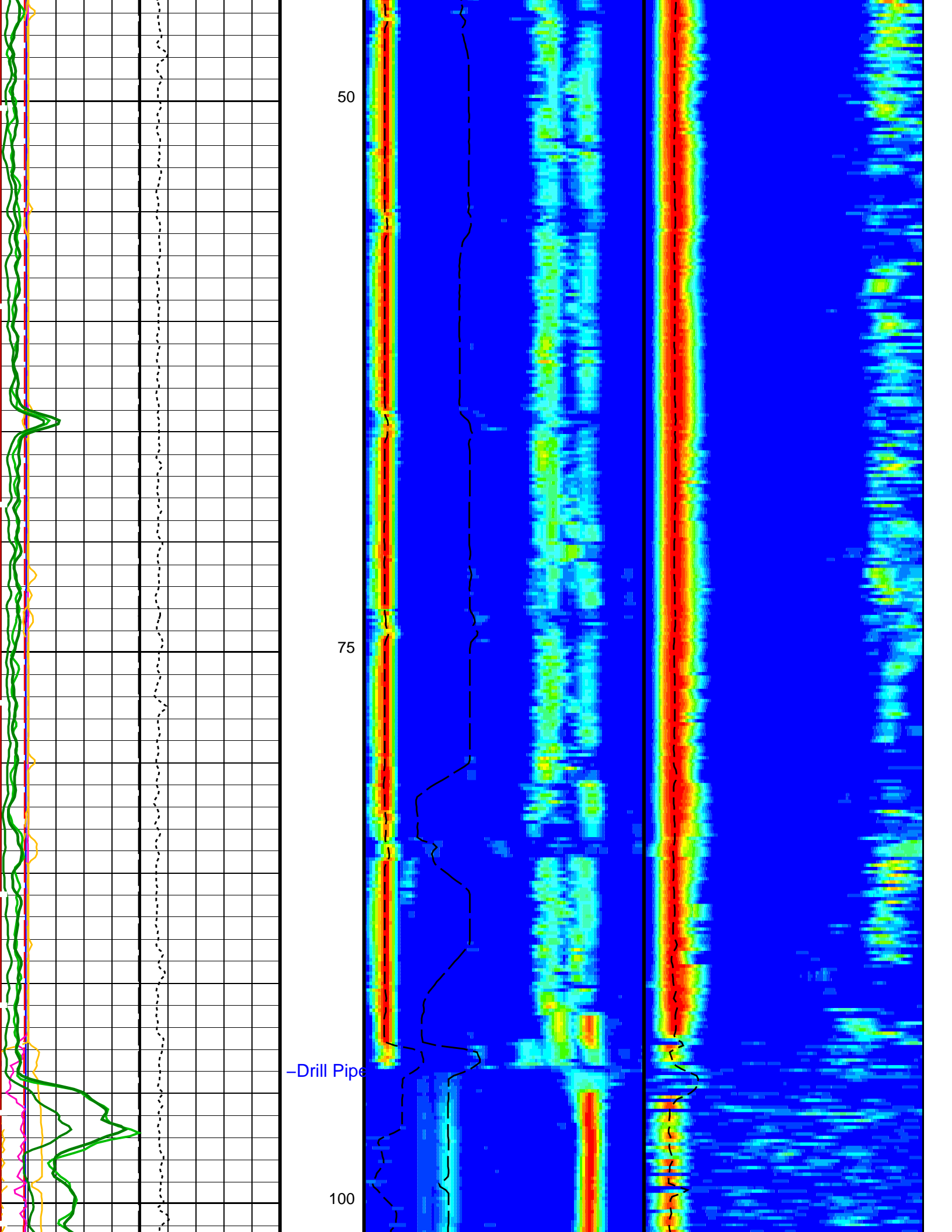
Delta-T Shear / RA - Upper Dipole
(DT2R)
(US/F) 75 1400

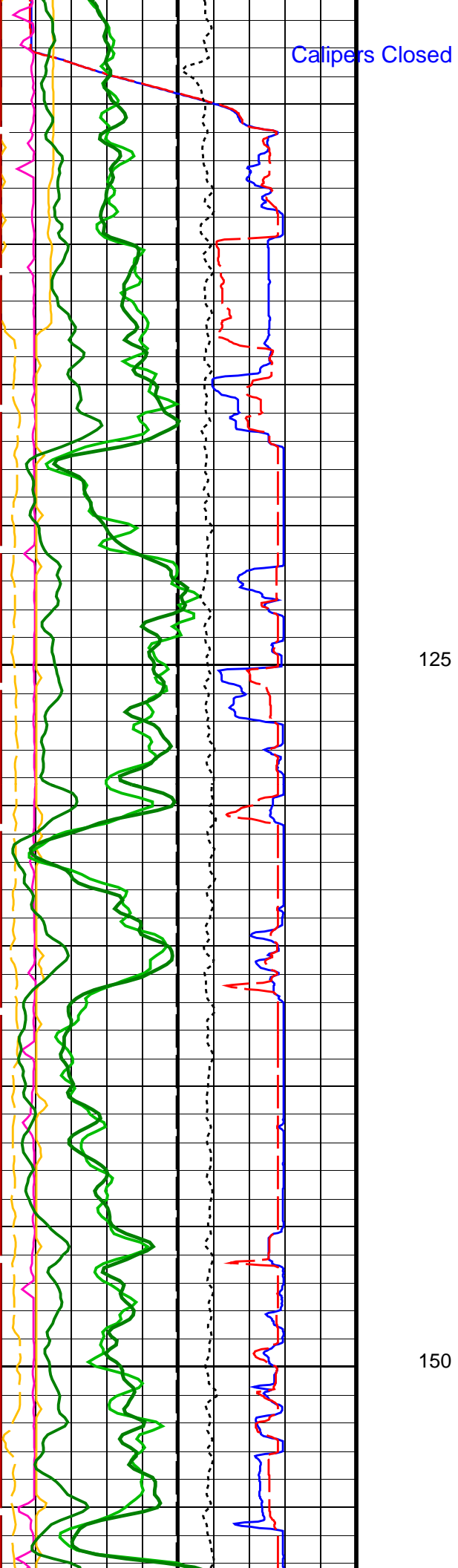


Sea Floor

25

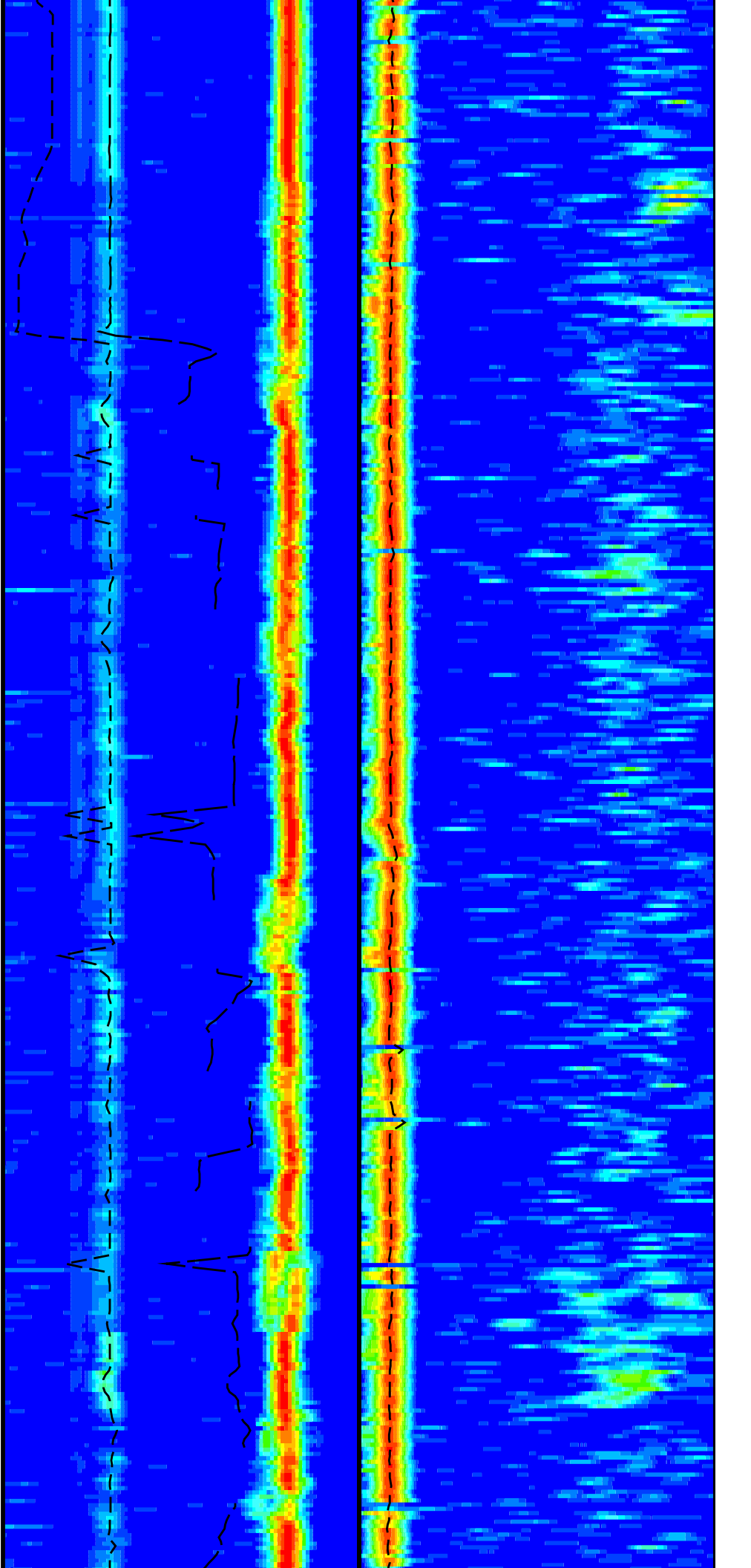


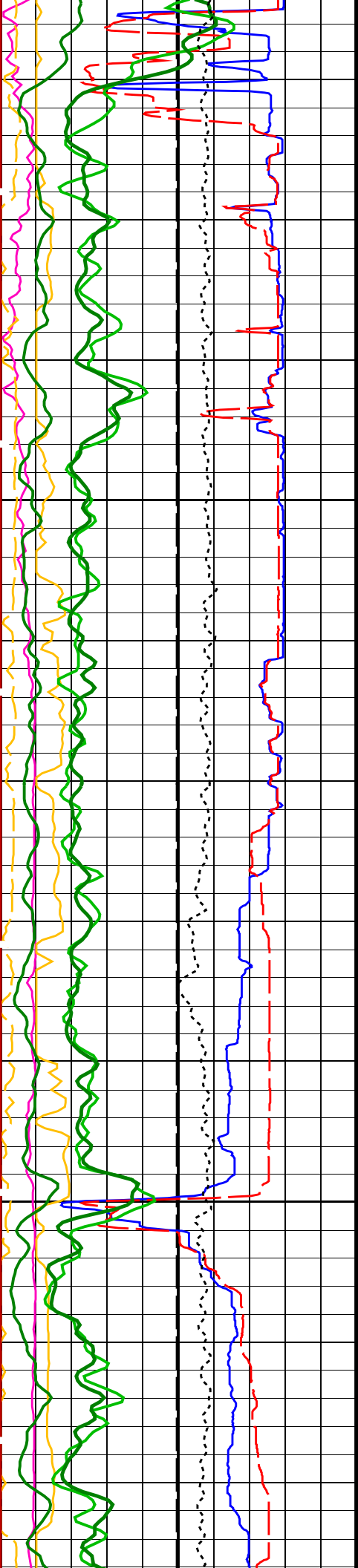




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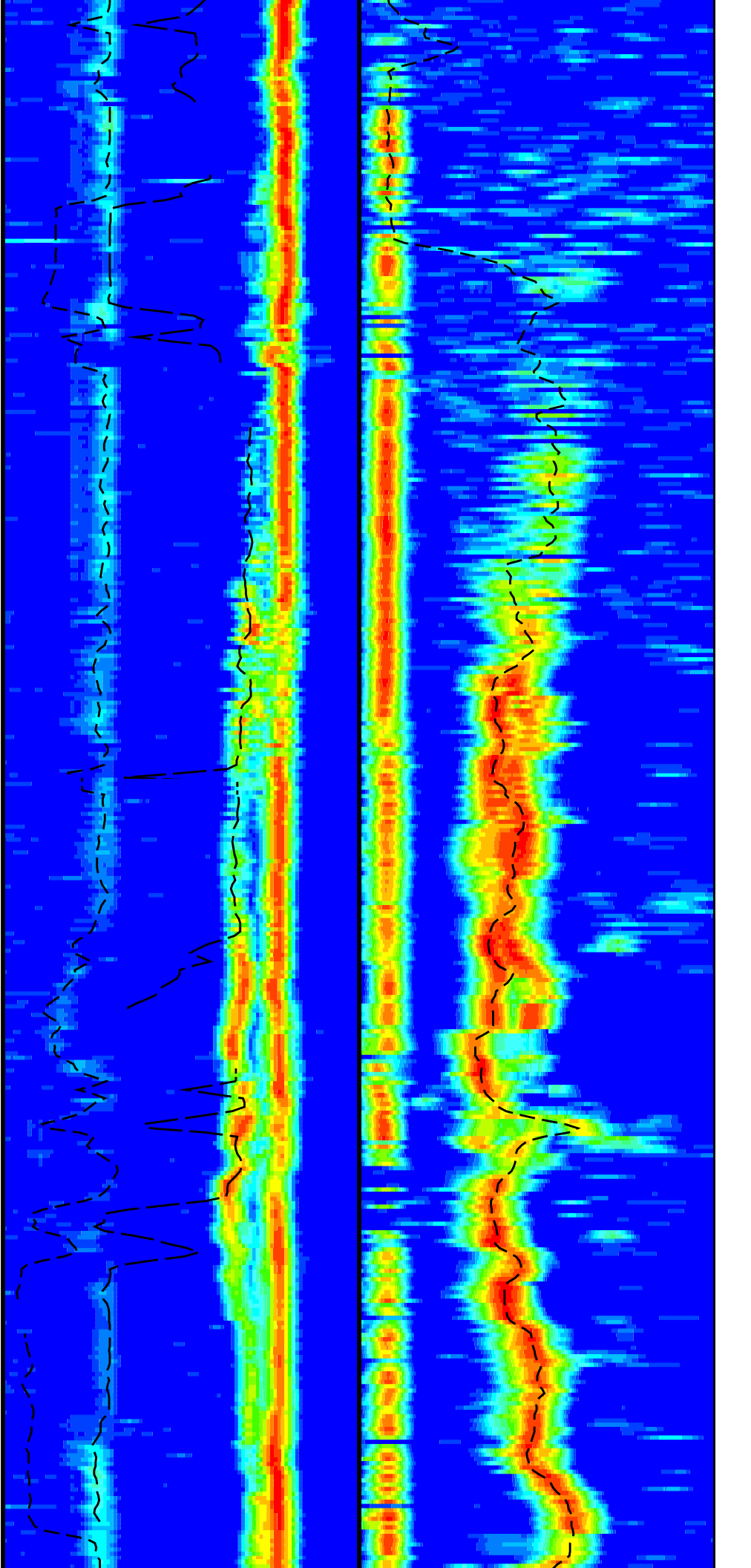
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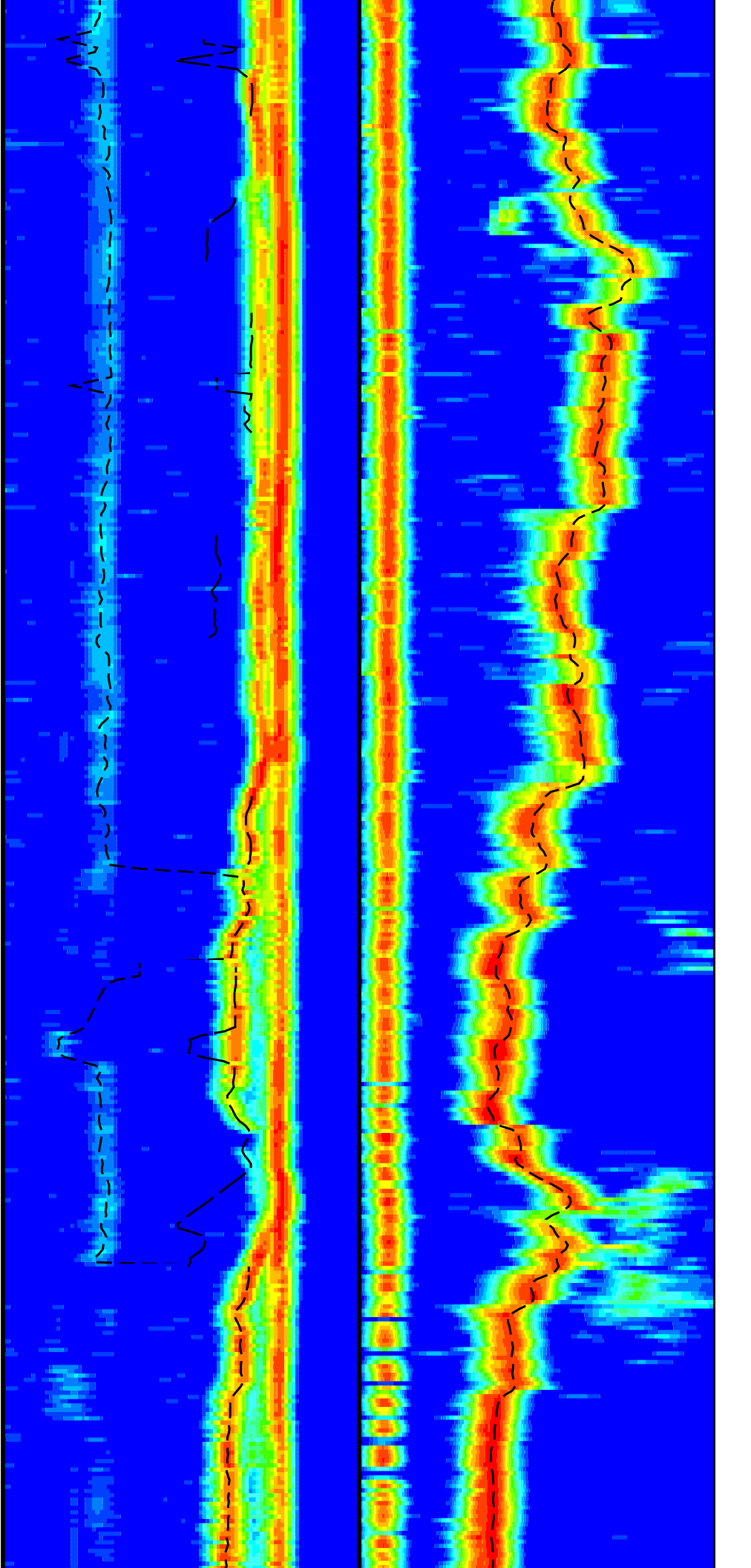
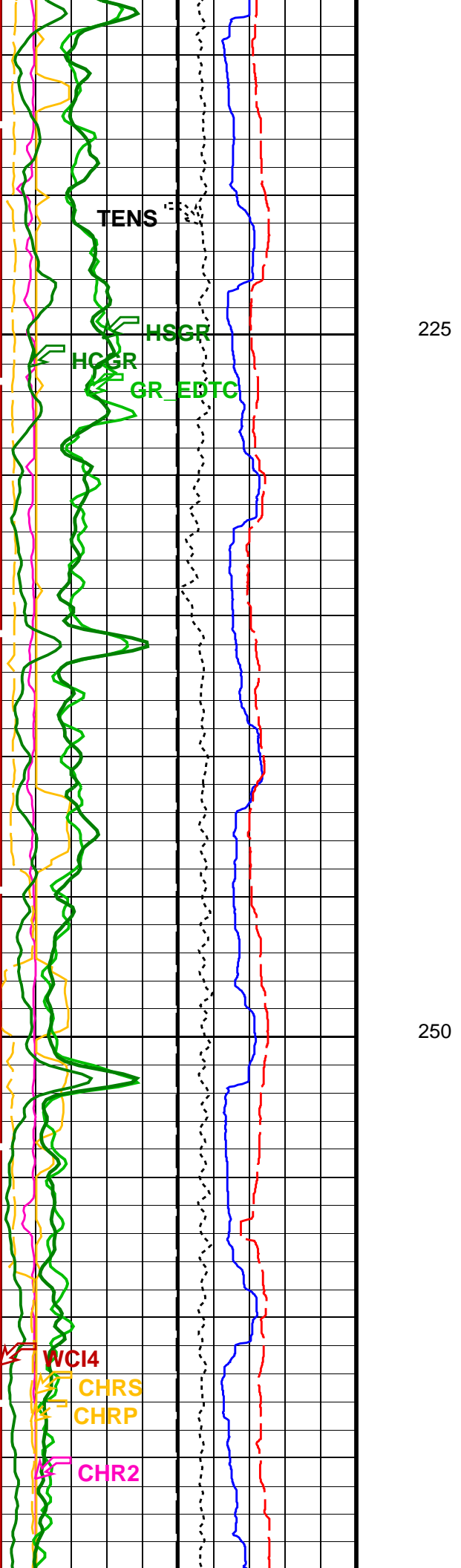


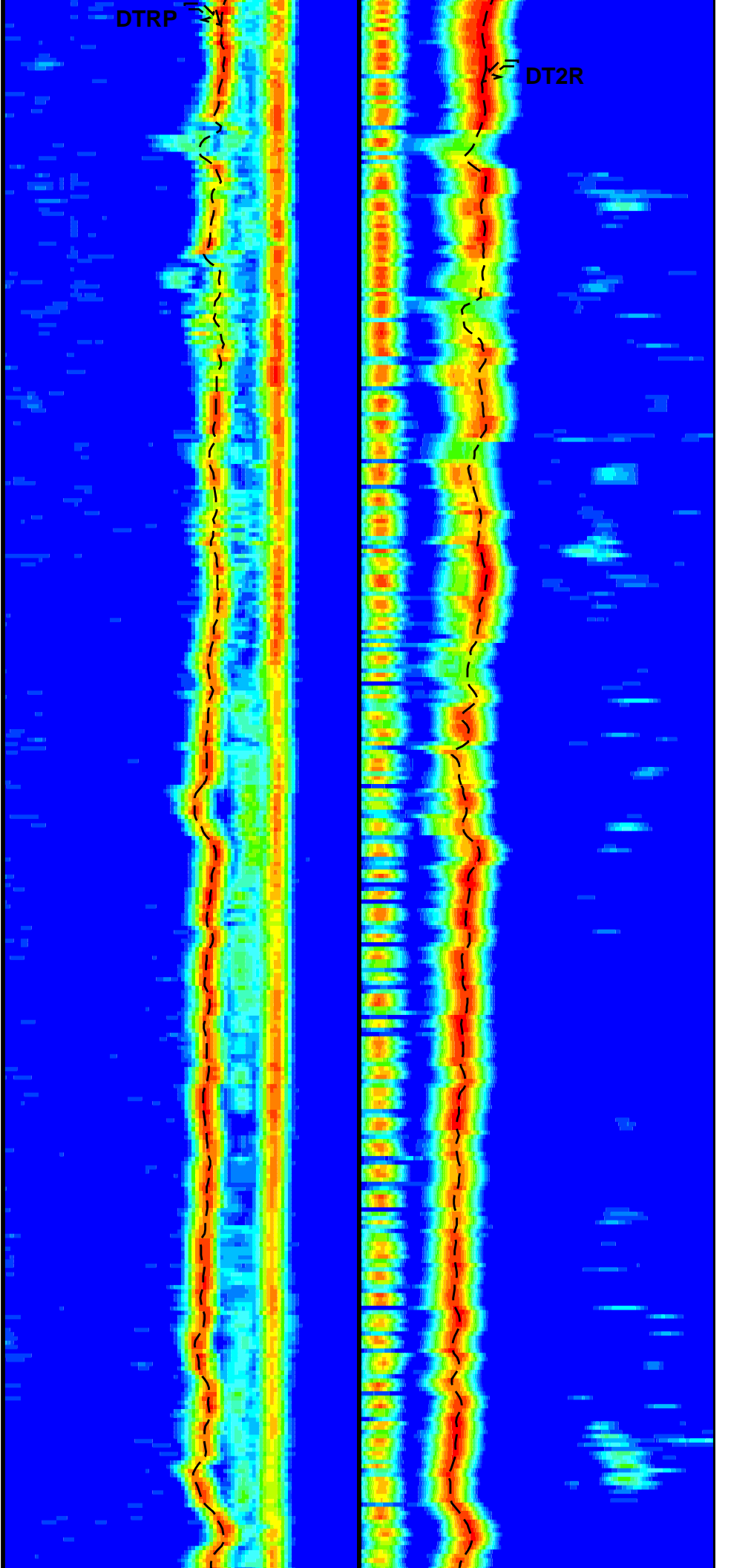
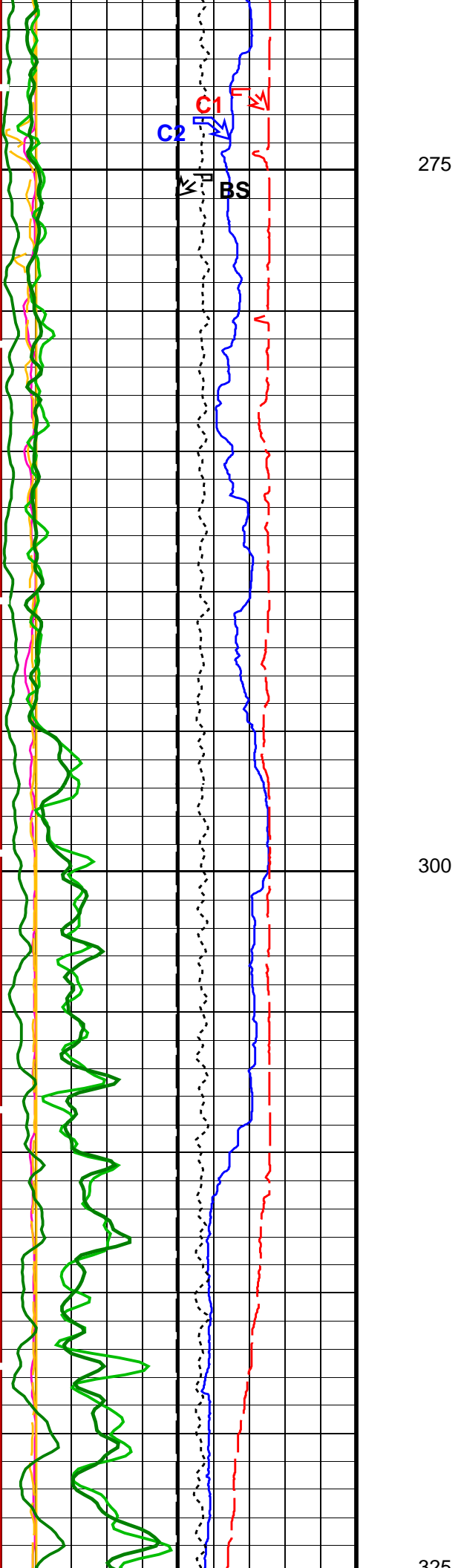


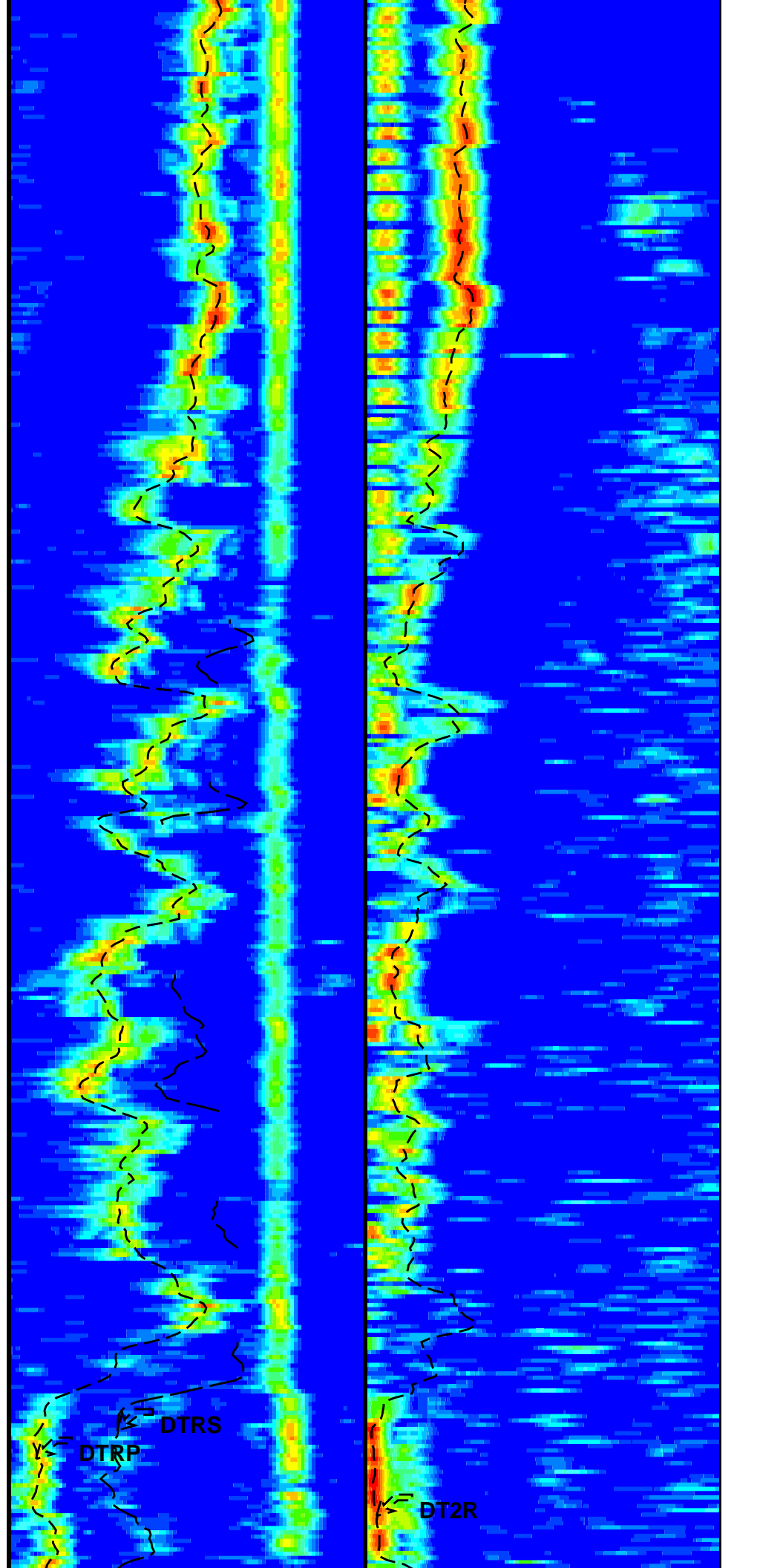
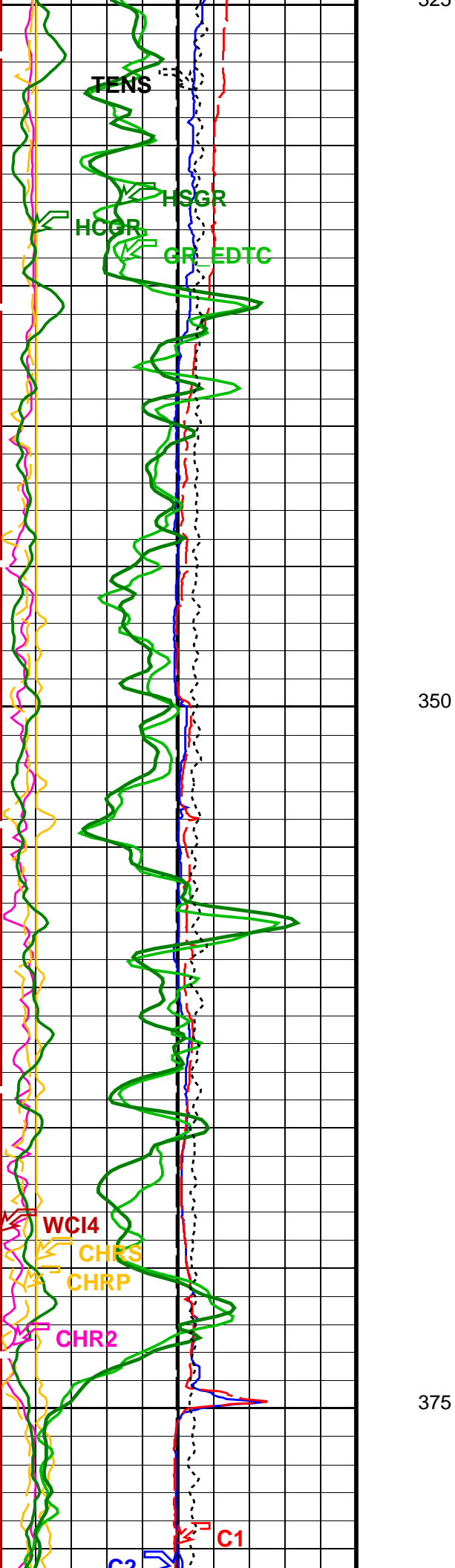
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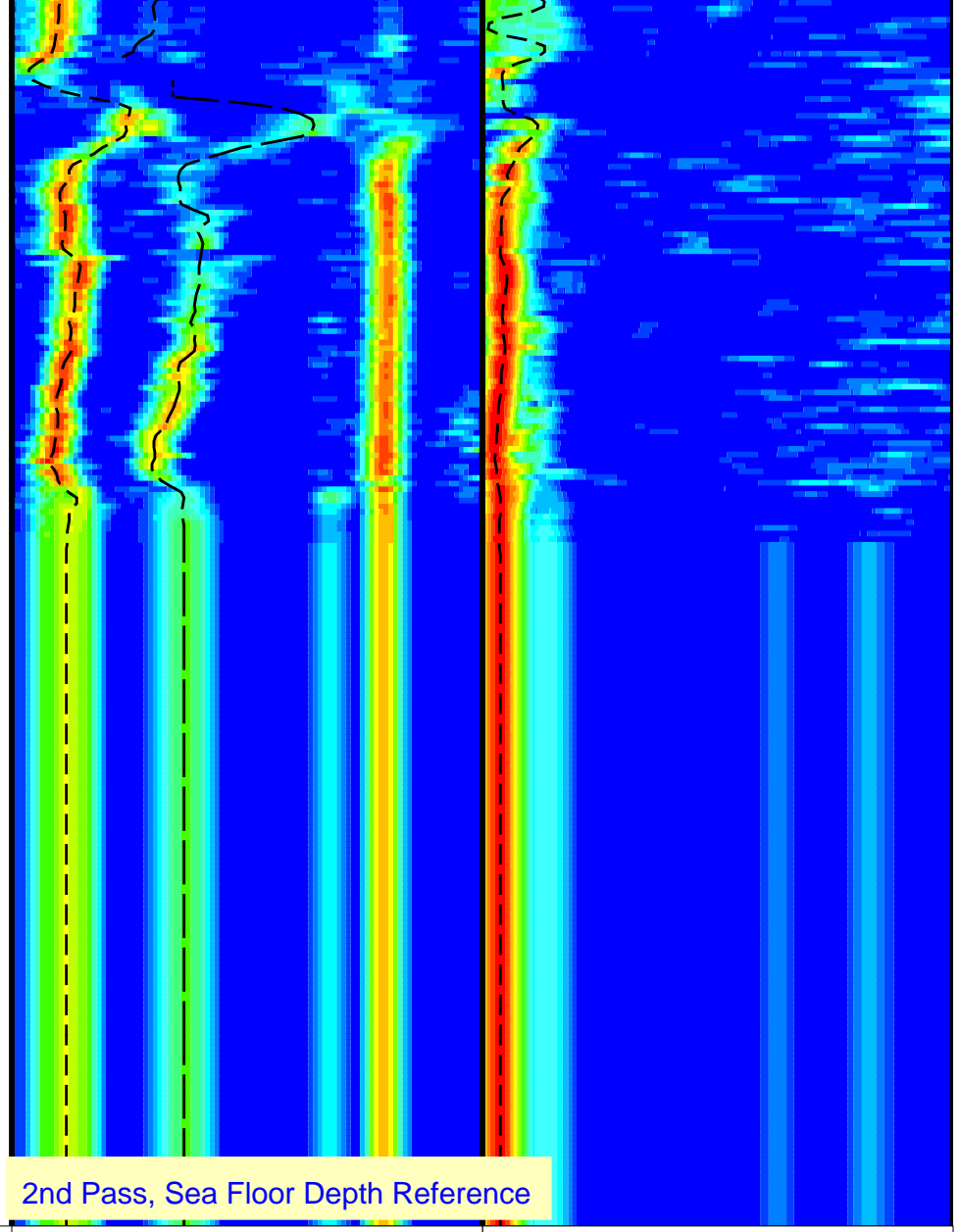
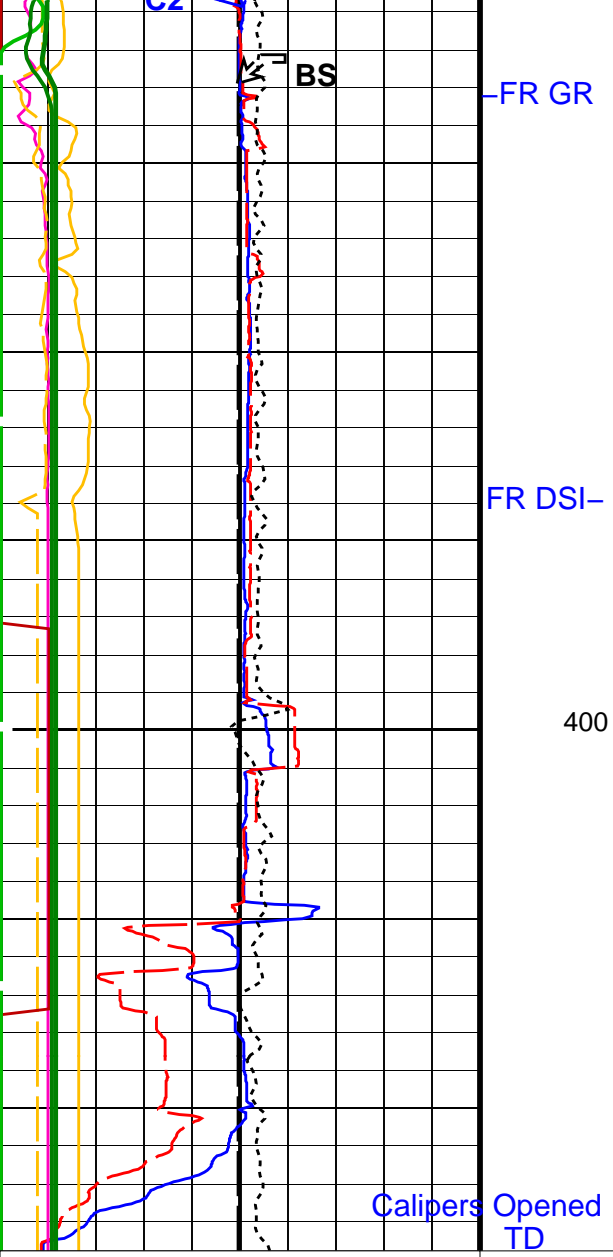
200











Bit Size (BS) (IN)	0	20
Caliper 2 (C2) (IN)	0	20
Caliper 1 (C1) (IN)	0	20
Tension (TENS) (LBF)	10000	0
Gamma Ray (GR_EDTC) (GAPI)	0	75
HNGS Computed Gamma Ray (HCGR) (GAPI)	0	75
Peak Coherence / RA - Upper Dipole (CHR2) (----)	0	10
Peak Coherence / RA - P & S Comp (CHRP) (----)	0	10

Delta-T Comp / RA - P & S (DTRP) (US/F)	40	240
Delta-T Shear / RA - Upper Dipole (DT2R) (US/F)	75	1400
Delta-T Shear / RA - P & S (DTRS) (US/F)	40	240
Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)	75	1400
Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F)	40	240

Amplitude scales for SPR2 and SPR4 are shown with color bars ranging from Min (blue) to Max (red).

0	(-----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(-----)	9
Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(-----)	10
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	75

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	40 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	180 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	1400 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 DTCS 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
GCSE	Generalized Caliper Selection	BS
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	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	75 US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	180 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	1400	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	20440	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	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00624076	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.35495	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05547	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	-2469.0	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 10-Dec-2012 20:54

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

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Output DLIS Files

DEFAULT	FMS_DSI_NGS_043PUP	FN:63	PRODUCER	10–Dec–2012 20:54		
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Company: Lamont Doherty Well: Expedition 344, Site U1414A

Input DLIS Files

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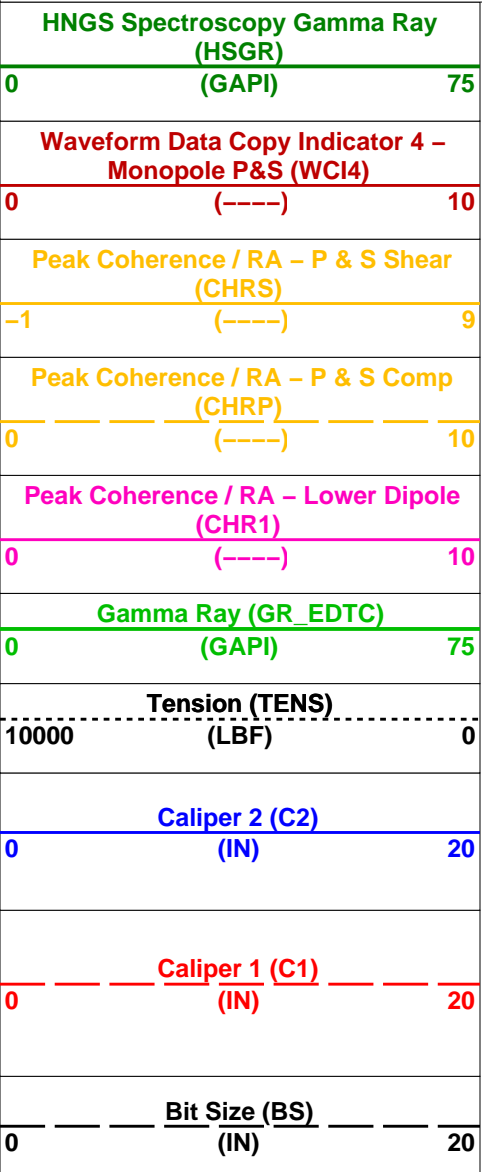
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OP System Version: 19C0-187

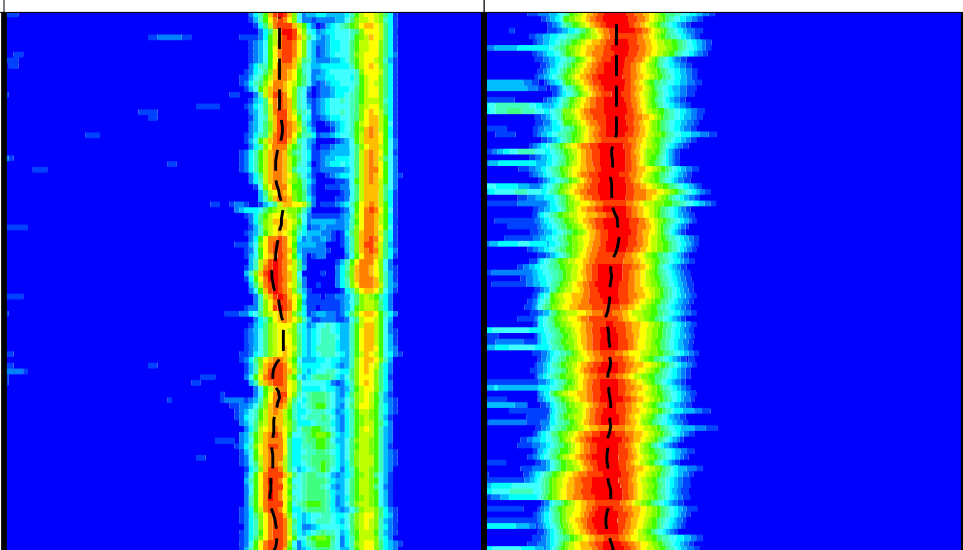
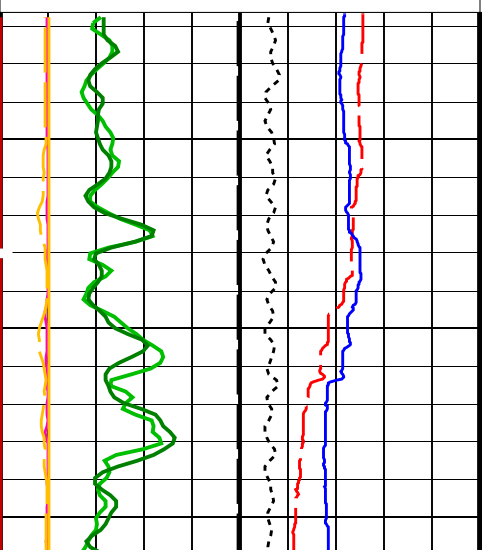
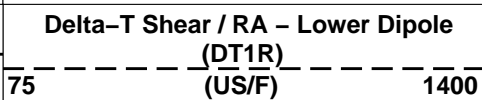
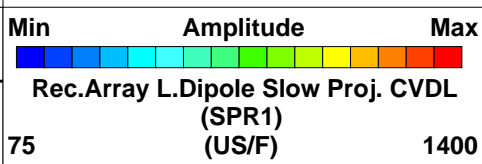
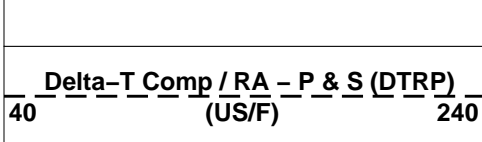
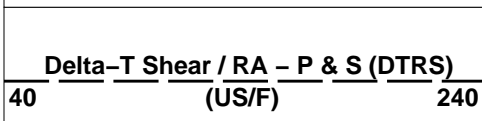
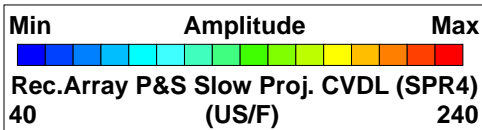
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DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

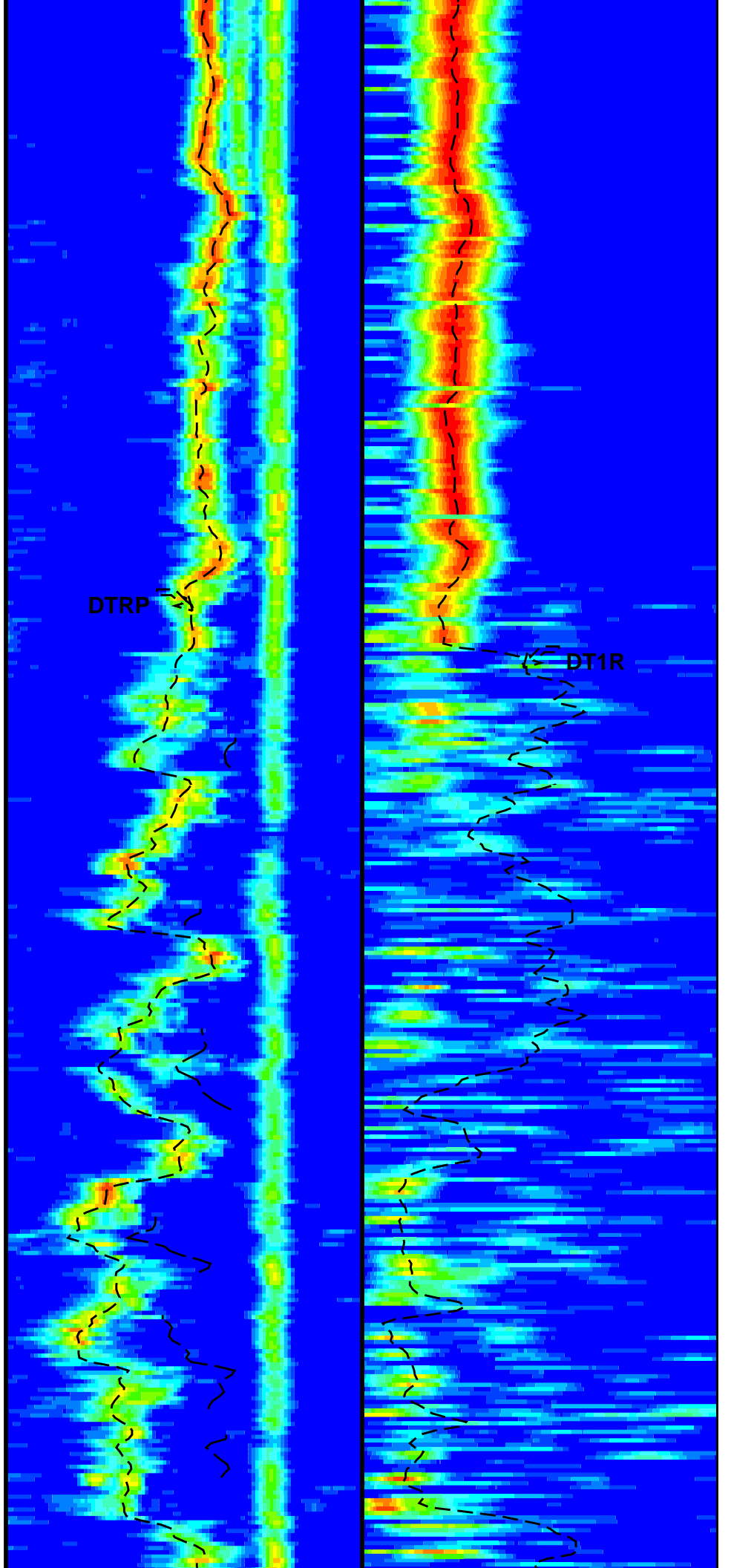
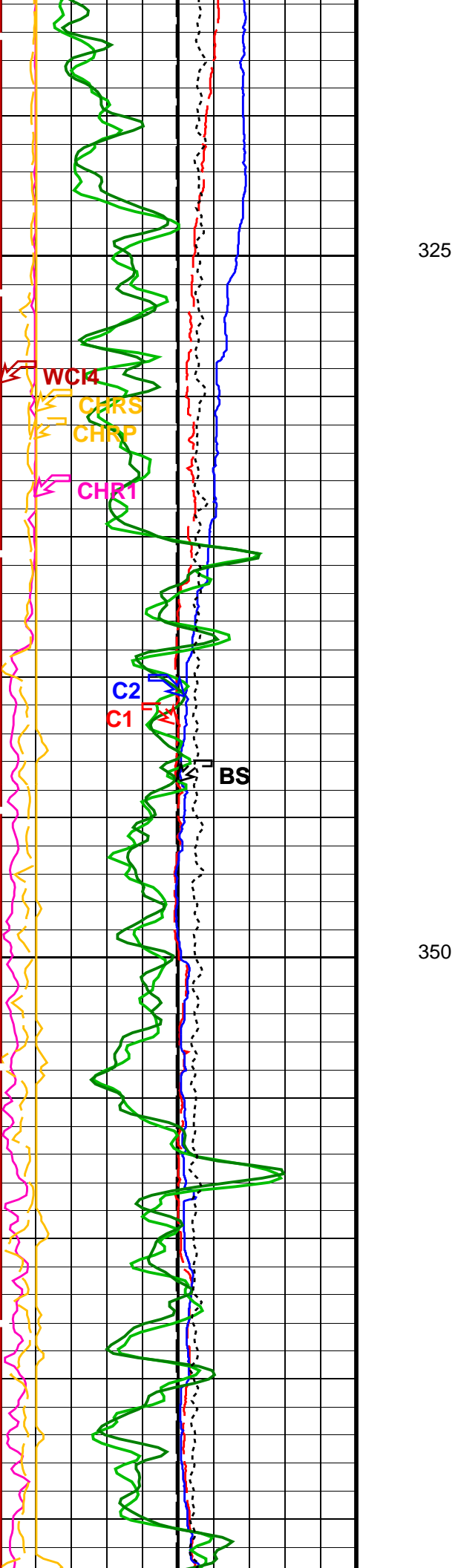
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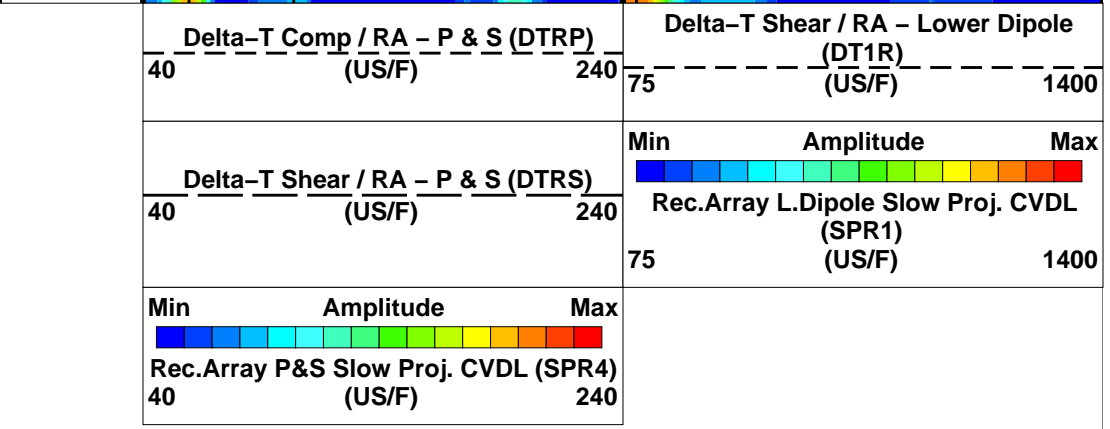
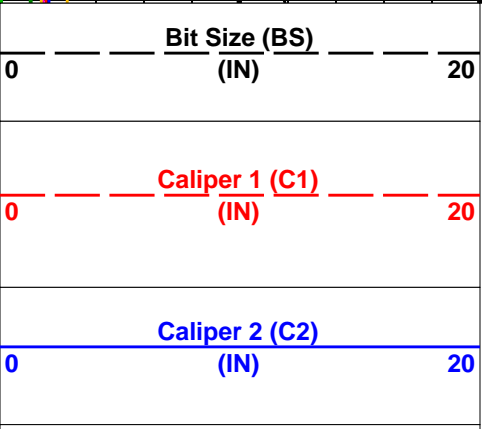
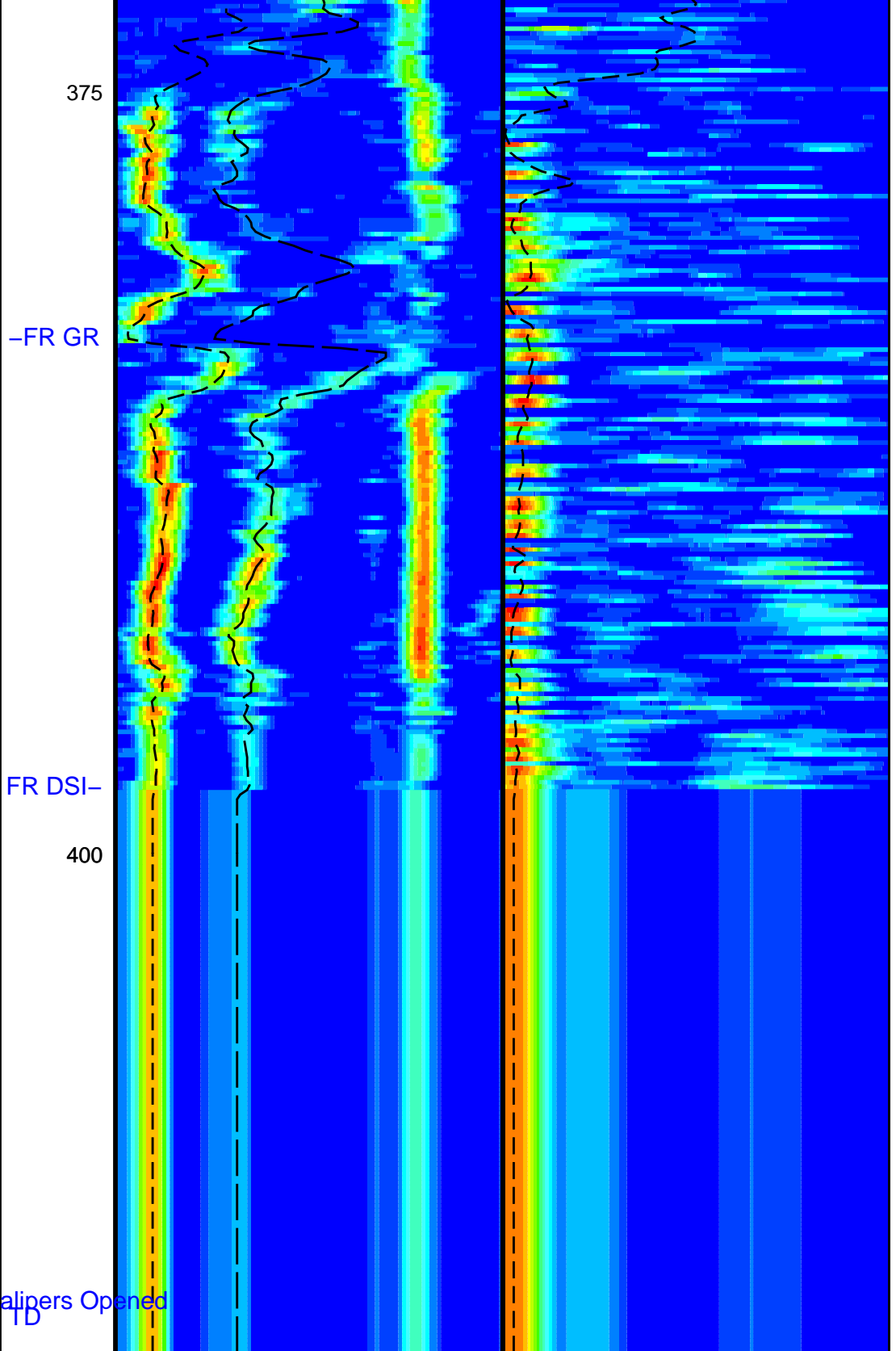
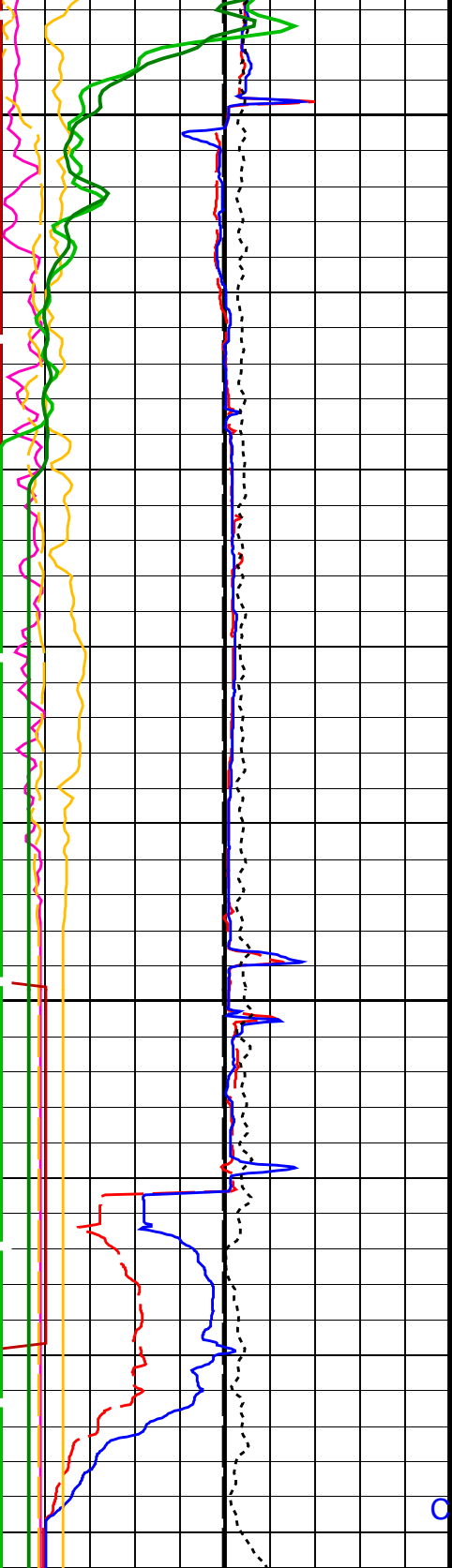
Time Mark Every 60 S



1st Pass, Sea Floor Depth Reference







10000	ension (TENS) (LBF)	0
0	Gamma Ray (GR_EDTC) (GAPI)	75
0	Peak Coherence / RA – Lower Dipole (CHR1) (----)	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
0	HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	75

1st 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	40 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	180 US/F
DDE1	Digitizing Delay 1	0 US
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source – Dipole Shear	USE
DSHL	Label Slowness Lower Limit – Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1400 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DTF	Delta-T Fluid	189 US/F
DWC1	Digitizer Word Count 1	512
DWC4	Digitizer Word Count 4	512
DWCX	Digitizer Word Count X	512
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR
GCSE	Generalized Caliper Selection	BS
LFC	Label Formation Character – Monopole P&S	DYNAMIC
LTXG	Lower Dipole Transmitter Geometry	156 IN
MCS	Mean Casing Slowness	57 US/F
MTXG	Monopole Transmitter Geometry	186 IN
NWI1	Number Waveform Items 1	8
NWI4	Number Waveform Items 4	8
NWIX	Number Waveform Items X	0
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	300 IN
RX3G	Receiver 3 Geometry	306 IN
RX4G	Receiver 4 Geometry	312 IN
RX5G	Receiver 5 Geometry	318 IN
RX6G	Receiver 6 Geometry	324 IN
RX7G	Receiver 7 Geometry	330 IN
RX8G	Receiver 8 Geometry	336 IN
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF
SAS1	STC Sonic Array Status – Lower Dipole	255
SAS4	STC Sonic Array Status – Monopole P&S	255
SBO1	STC Search Band Offset – Lower Dipole	300 US
SBO4	STC Search Band Offset – Monopole P&S	500 US

SBR4	STC Search Band Onset - Monopole P&S	300	US
SBW1	STC Baseline Removal - Monopole P&S	8000	US
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE	
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM1	STC Filter - Lower Dipole	B.3-1.5K	
SFM4	STC Filter - Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	US/F
SLL1	STC Slowness Lower Limit - Lower Dipole	75	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST1	STC Slowness Step - Lower Dipole	4	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1	
SSW4	STC Source Waveform - Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit - Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	780	US/F
SUL1	STC Slowness Upper Limit - Lower Dipole	1400	US/F
SUL4	STC Slowness Upper Limit - Monopole P&S	240	US/F
SWD1	STC Slowness Width - Lower Dipole	40	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0	US
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL1	STC Time Lower Limit - Lower Dipole	600	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TST1	STC Time Step - Lower Dipole	200	US
TST4	STC Time Step - Monopole P&S	50	US
TUL1	STC Time Upper Limit - Lower Dipole	20440	US
TUL4	STC Time Upper Limit - Monopole P&S	3660	US
TWD1	STC Time Width - Lower Dipole	2000	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
WFM4	Waveform Mode 4	W1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00624076	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.35495	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05547	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	-2469.0	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 10-Dec-2012 20:24

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

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Output DLIS Files

Output DLIS Files

DEFAULT FMS_DSI_NGS_042PUP FN:62 PRODUCER 10-Dec-2012 20:24

Company: Lamont Doherty Well: Expedition 344, Site U1414A

Input DLIS Files

DEFAULT FMS_DSI_NGS_035LUP FN:48 PRODUCER 10-Dec-2012 15:01 2884.9 M 2770.6 M

Output DLIS Files

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OP System Version: 19C0-187

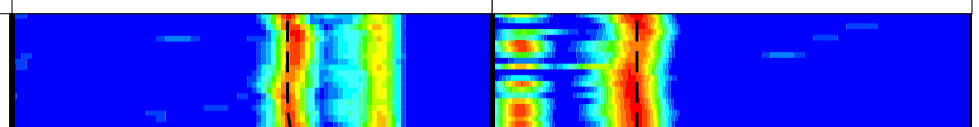
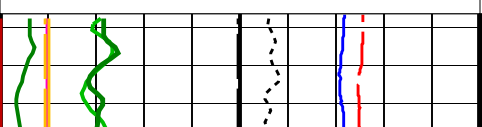
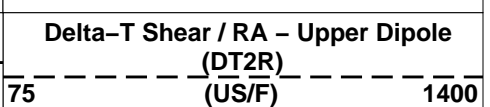
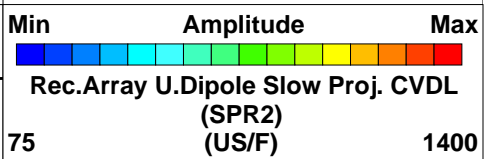
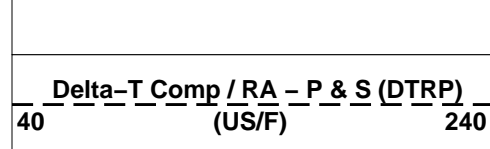
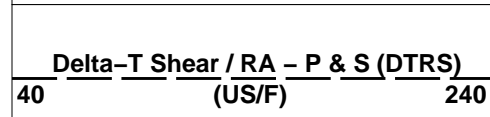
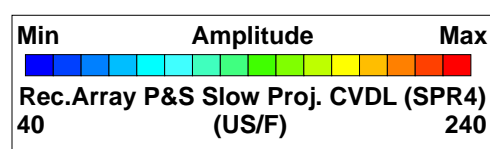
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HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

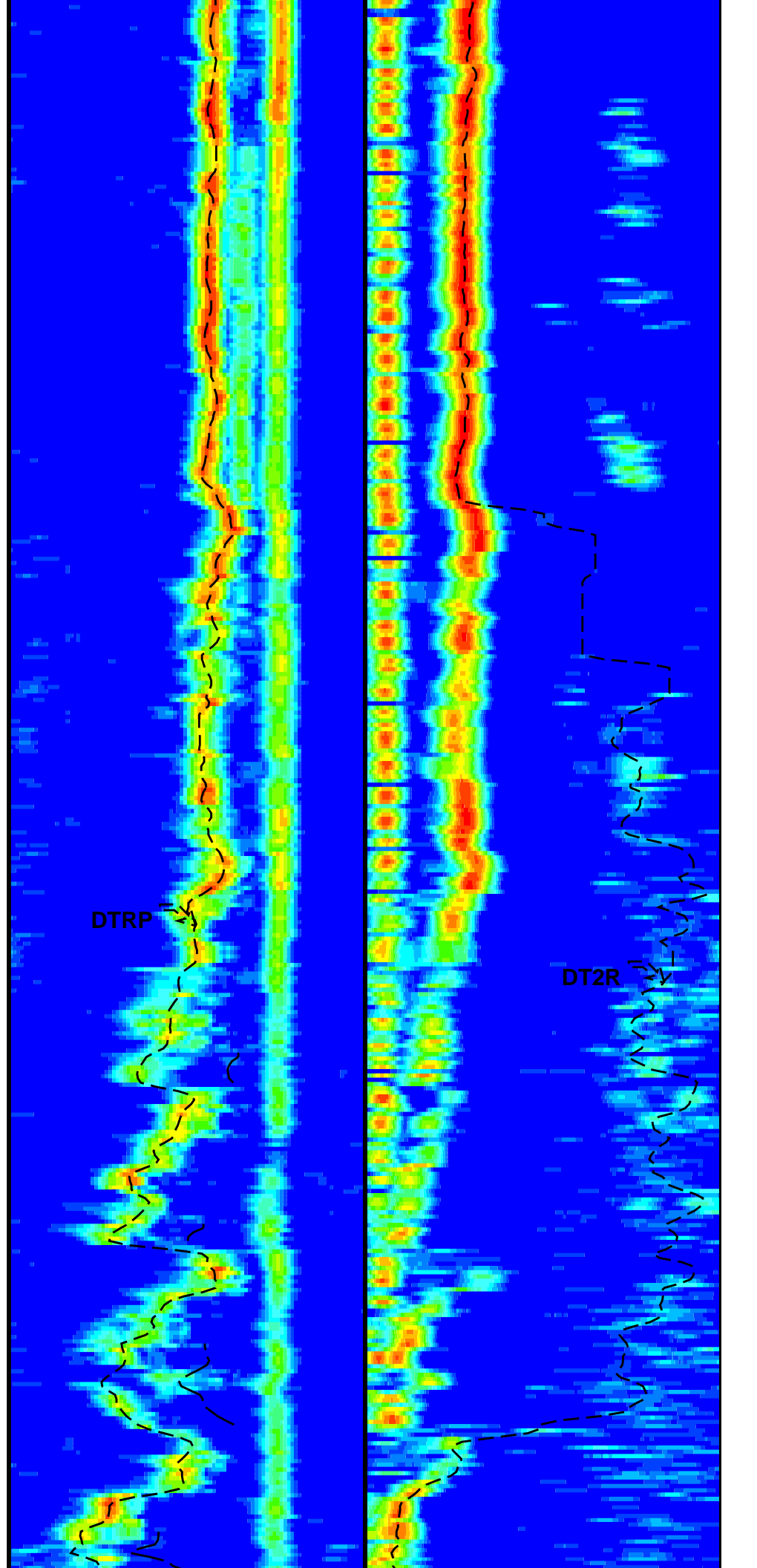
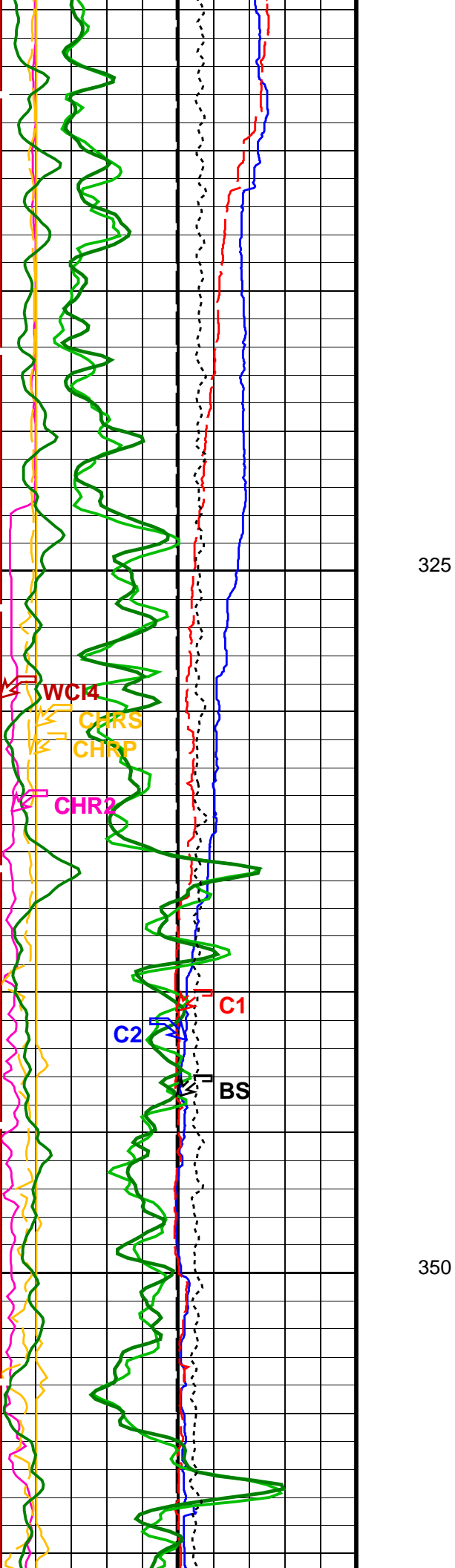
PIP SUMMARY

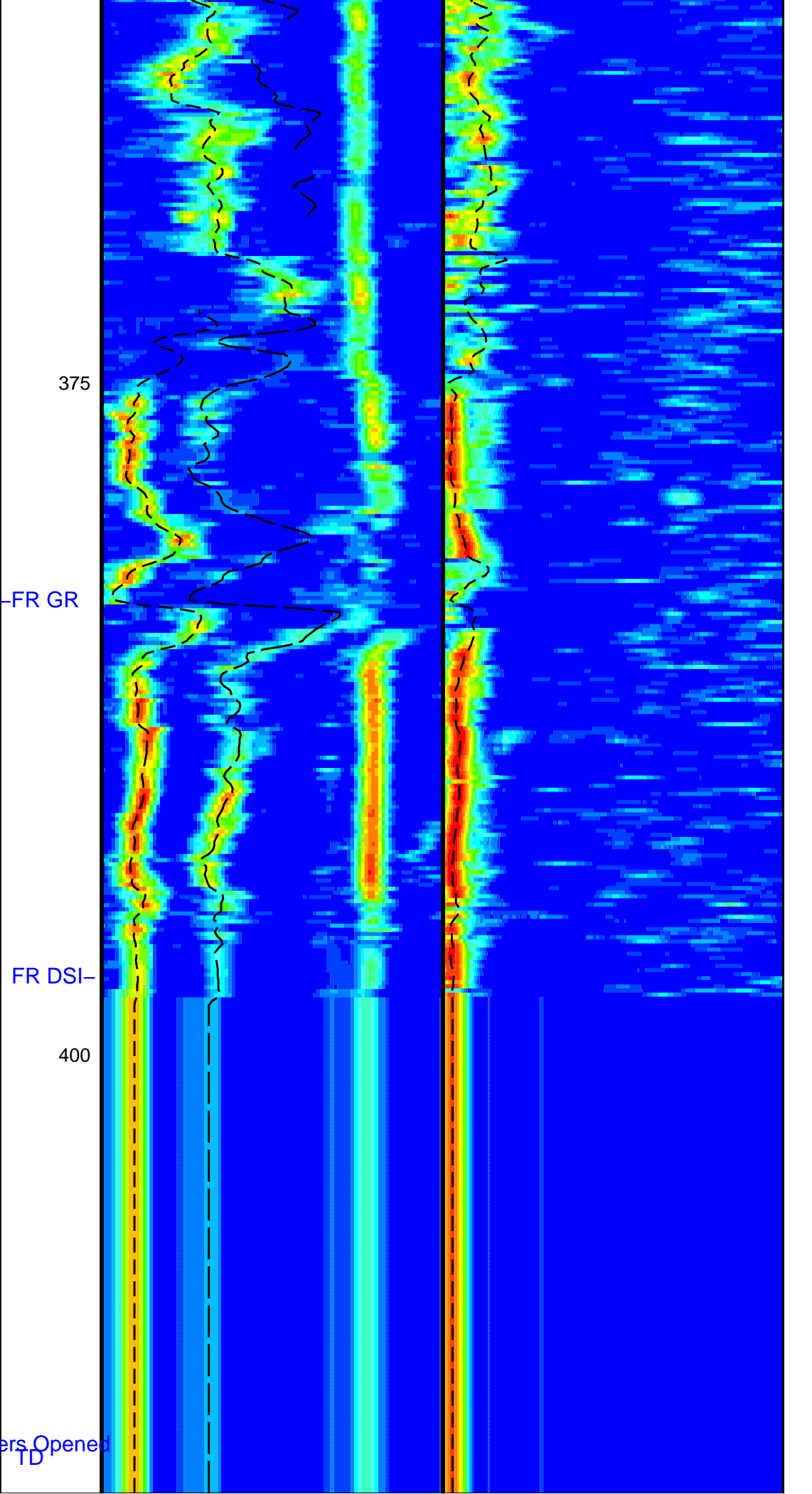
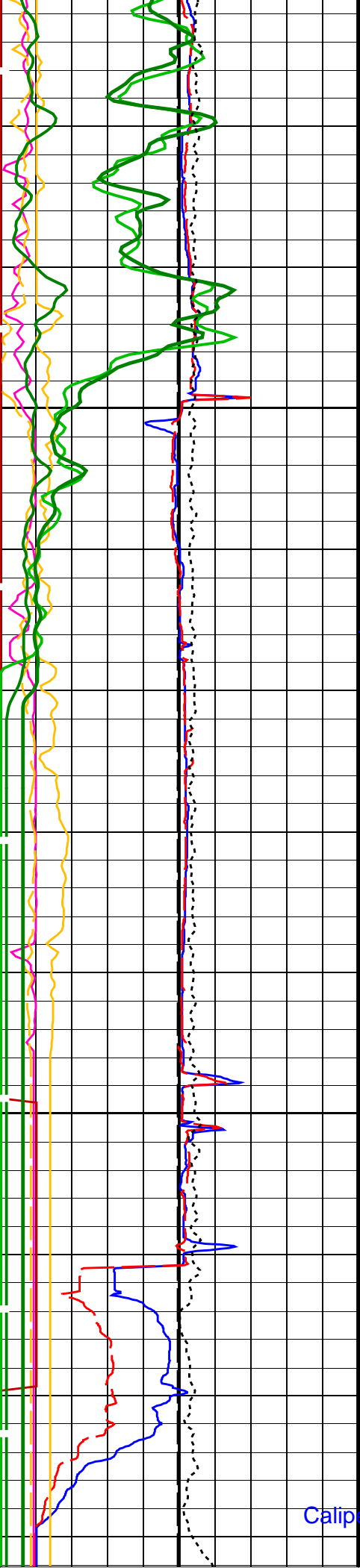
Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)	(GAPI)	75
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)	(----)	10
Peak Coherence / RA - Upper Dipole (CHR2)	(----)	10
HNGS Computed Gamma Ray (HCGR)	(GAPI)	75
Gamma Ray (GR_EDTC)	(GAPI)	75
Tension (TENS)	(LBF)	0
Caliper 1 (C1)	(IN)	20
Caliper 2 (C2)	(IN)	20
Bit Size (BS)	(IN)	20

1st Pass, Sea Floor Depth Reference







375

FR GR

FR DSI

400

Calipers Opened
TD

0	Bit Size (BS) (IN)	20
0	Caliper 2 (C2) (IN)	20
0	Caliper 1 (C1) (IN)	20
10000	Tension (TENS) (LBF)	0
0	Gamma Ray (GR_EDTC) (GAPI)	75
0	HNGS Computed Gamma Ray (HCGR) (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
0	HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	75

40	Delta-T Comp / RA – P & S (DTRP) (US/F)	240
40	Delta-T Shear / RA – P & S (DTRS) (US/F)	240
40	Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F)	240

75	Delta-T Shear / RA – Upper Dipole (DT2R) (US/F)	1400
Min	Amplitude	Max
75	Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)	1400

1st 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	40 US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	180 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	1400 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 DTCS 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
GCSE	Generalized Caliper Selection	BS
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	75	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	180	US/F
SSL2	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	1400	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	20440	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	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00624076	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.35495	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05547	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	0.875	IN

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_035LUP	FN:48	PRODUCER	10-Dec-2012 15:01	2884.9 M	2770.6 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_042PUP	FN:62	PRODUCER	10-Dec-2012 20:24		
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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: 6-Dec-2012 2:43							
Caliper 1 Zero Measurement	12.00	N/A	12.82	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.62	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.87	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.71	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER							
Before: 10-Dec-2012 12:24							
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							
Before: 10-Dec-2012 12:24							
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: 9-Dec-2012 2:05 Before: 9-Dec-2012 2:13							
Na 511 Peak Loc	40.00	39.52	39.56	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.12	15.91	N/A	N/A	2.000	%
High Voltage	1150	1182	1182	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.181	9.123	N/A	N/A	2.000	%
Temperature	15.50	31.95	31.97	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	16.45	16.74	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 9-Dec-2012 2:05 Before: 9-Dec-2012 2:13							
Na 511 Peak Loc	40.00	39.48	39.56	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.87	16.16	N/A	N/A	2.000	%
High Voltage	1150	1114	1115	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.9	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.230	9.385	N/A	N/A	2.000	%
Temperature	15.50	32.68	32.75	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	16.90	17.23	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 9-Dec-2012 2:05 Before: 9-Dec-2012 2:13							
Coincidence Count Rate Ratio	1.000	0.9742	0.9644	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration							
Master: 9-Dec-2012 1:59							
Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	210.5	---	---	---	---	

Th Peak Res	7.000	7.000	--	--	--	--	%
Background Count Rate	142.5	17.93	--	--	--	--	CPS
Gain Ratio	1.000	1.013	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 9-Dec-2012 1:59

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.2	--	--	--	--	
Th Peak Res	7.000	7.038	--	--	--	--	%
Background Count Rate	142.5	18.43	--	--	--	--	CPS
Gain Ratio	1.000	1.008	--	--	--	--	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 10-Dec-2012 0:38

EDTC Z-Axis Acceleration	9.810	N/A	9.816	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 9-Dec-2012 2:15

Gamma Ray (Jig – Bkg)	162.4	N/A	162.4	N/A	N/A	14.77	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	724
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – AC	GPIC – AC	719
MEST Acquisition Cartridge – A	MEAC – A	875

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH – A	702
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	769

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	300
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Auxiliary Equipment:

HNGC Housing	HNGH – A	115
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS – BA	194
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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		39.52	Master		16.12	Master		1182
Before		39.56	Before		15.91	Before		1182
	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		9.181	Master		31.95
Before		141.8	Before		9.123	Before		31.97
	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		16.45						
Before		16.71						


Before			16.74					
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 9-Dec-2012 2:05 Before: 9-Dec-2012 2:13								
Hostile Natural Gamma Ray Sonde Wellsite Calibration								
Detector 2 Check								
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.48	Master		15.87	Master		1114
Before		39.56	Before		16.16	Before		1115
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		9.230	Master		32.68
Before		141.9	Before		9.385	Before		32.75
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		16.90						
Before		17.23						
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 9-Dec-2012 2:05						Before: 9-Dec-2012 2:13		

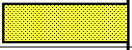


Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9742
Before		0.9644
0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 9-Dec-2012 2:05		
Before: 9-Dec-2012 2:13		

Hostile Natural Gamma Ray Sonde Master Calibration								
Detector 1 Calibration								
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		210.5	Master		7.000
38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master		17.93	Master		1.013			
10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)			
Master: 9-Dec-2012 1:59								

Hostile Natural Gamma Ray Sonde Master Calibration								
Detector 2 Calibration								
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		209.2	Master		7.038
38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master		18.43	Master		1.008			
10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)			
Master: 9-Dec-2012 1:59								

Enhanced DTS Cartridge / Equipment Identification		
Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	77693
Enhanced DTS Cartridge	EDTC - B	8529

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.816
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 10-Dec-2012 0:38		

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		6.074	Before		162.4	Before		164.0	
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			147.7 (Minimum) 162.4 (Nominal) 177.2 (Maximum)			149.0 (Minimum) 164.0 (Nominal) 179.0 (Maximum)		
Before: 9-Dec-2012 2:15									

Company: **Lamont Doherty**



Well: **Expedition 344, Site U1414A**

Field: **Costa Rica Seismogenesis (CRISP-A2)**

Rig: **JOIDES Resolution**

Ocean: **Pacific**

Dipole Shear Sonic
Upper/Lower Dipole Shear
Monopole Copressional/Shear, Gamma Ray