

DISCLAIMER
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OTHER SERVICES1
 OS1: MSS/HRLA/HLDS/APS/HN
 OS2: VSI
 OS3:
 OS4:
 OS5:

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

REMARKS: RUN NUMBER 1
 Hole drilled with XCB coring bit and bottom hole assembly (BHA). 11 7/16" BS
 Drill pipe set at 238.4 mbrf 82mbsf for wireline logging.
 Downlog run with corrections computed using bit size; uplogs corrected for actual hole size using caliper.
 SAM 1 lower dipole low frequency drive shear
 SAM 2 upper dipole shear
 SAM 4 P&S compressional
 Fluid type was sepiolite+barite at 11 lbs/gal. Corrections for this applied.
 Depth originally recorded from drill floor; played back with sea floor as reference zero.
 All logs presented in measured depth below sea floor (MDBSF).
 Maximum observed temperature on the MSS temperature was 31.6degC.

REMARKS: RUN NUMBER 2
 Hole drilled with XCB coring bit and bottom hole assembly (BHA). 11 7/16" BS
 Drill pipe set at 238.4 mbrf 82mbsf for wireline logging.
 Downlog run with corrections computed using bit size; uplogs corrected for actual hole size using caliper.
 SAM 1 lower dipole low frequency drive shear
 SAM 2 upper dipole shear
 SAM 4 P&S compressional
 Fluid type was sepiolite+barite at 11 lbs/gal. Corrections for this applied.
 Depth originally recorded from drill floor; played back with sea floor as reference zero.
 All logs presented in measured depth below sea floor (MDBSF).
 Maximum observed temperature on the MSS temperature was 31.6degC.

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

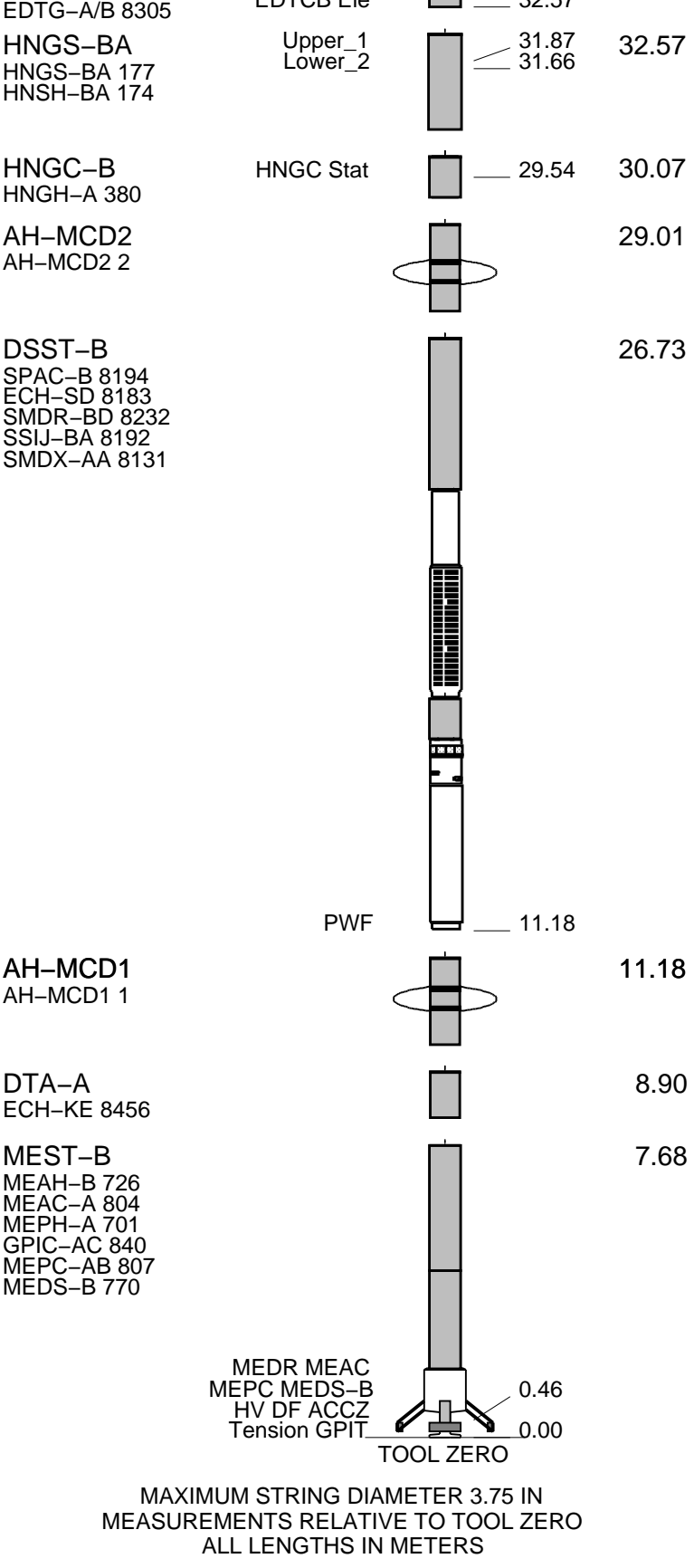
SURFACE EQUIPMENT

GSR-U 616008
 WITM (EDTS)-A

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT				35.88
LEH-QT 301	MDSB_EDTC			
AH-369	Mud Tempe		34.55	34.99
	CTEM		33.49	
EDTC-B	Gamma Ray		32.92	34.55
EDTH-B 8303	EFTB DIAG			
EDTC-B 8317	TelStatus			
	EDTCB File		32.57	



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

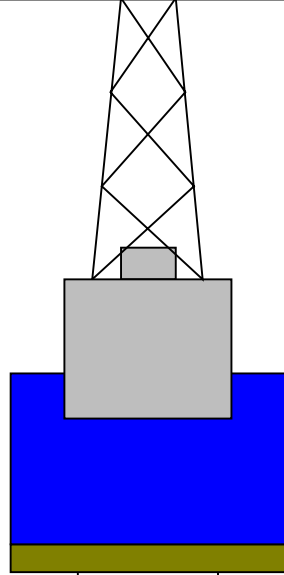
Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-156.3

-156.3

-145.3



4.1



0

4.1

82

11.4375

Sea Floor

Open Hole

530

Total Depth

Input DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:32	PRODUCER	15-Sep-2015 19:09	601.2 M	135.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_043PUP	FN:54	PRODUCER	19-Sep-2015 14:24	443.5 M	-22.7 M
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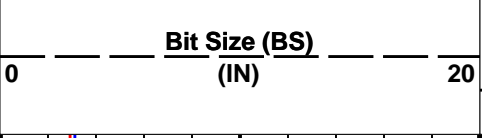
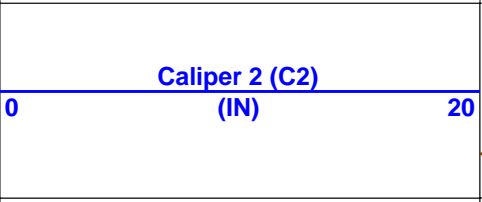
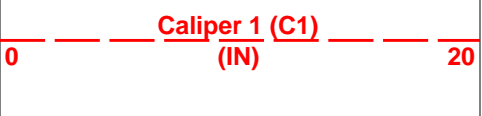
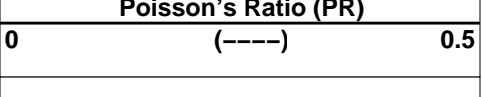
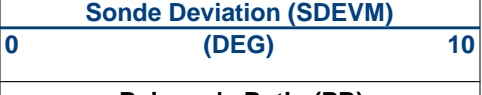
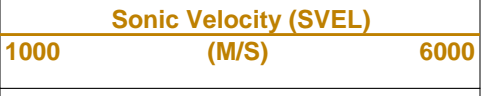
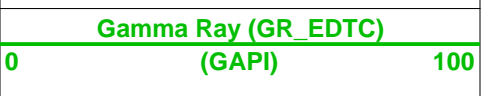
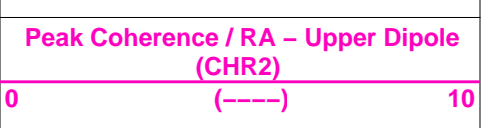
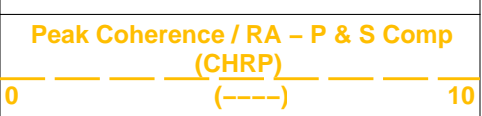
OP System Version: 19C0-187

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

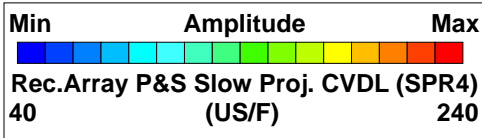
PIP SUMMARY

Time Mark Every 60 S

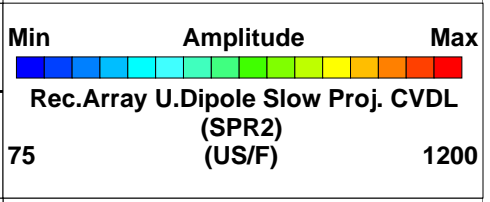
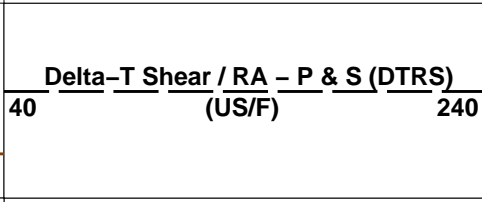
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(-----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(-----)	9



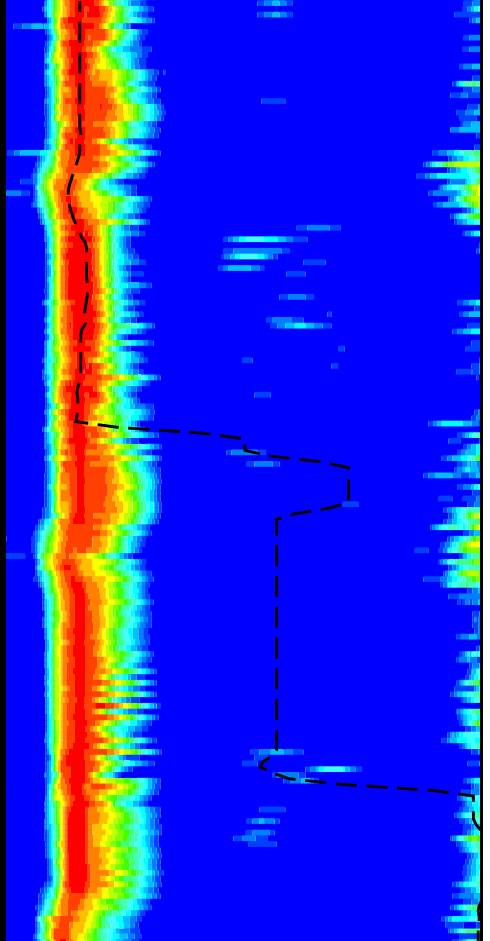
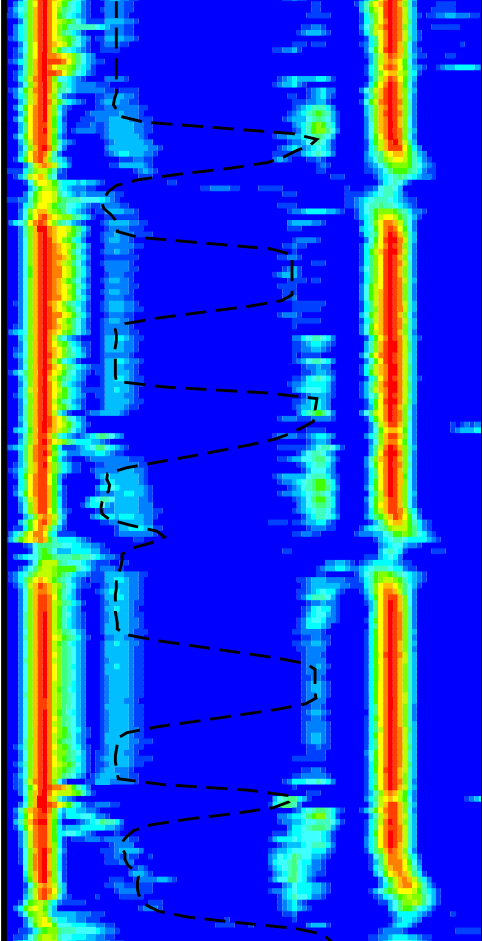
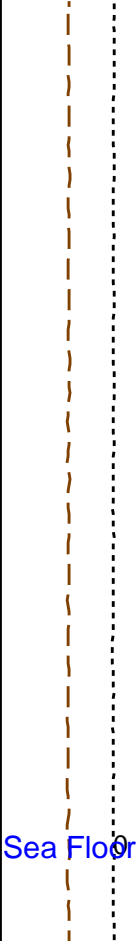
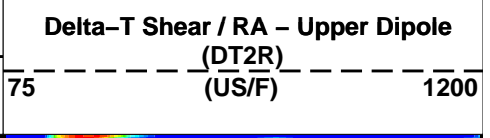
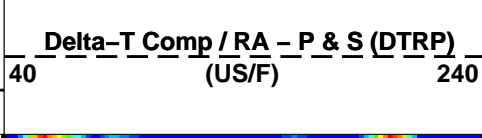
Uplog #2



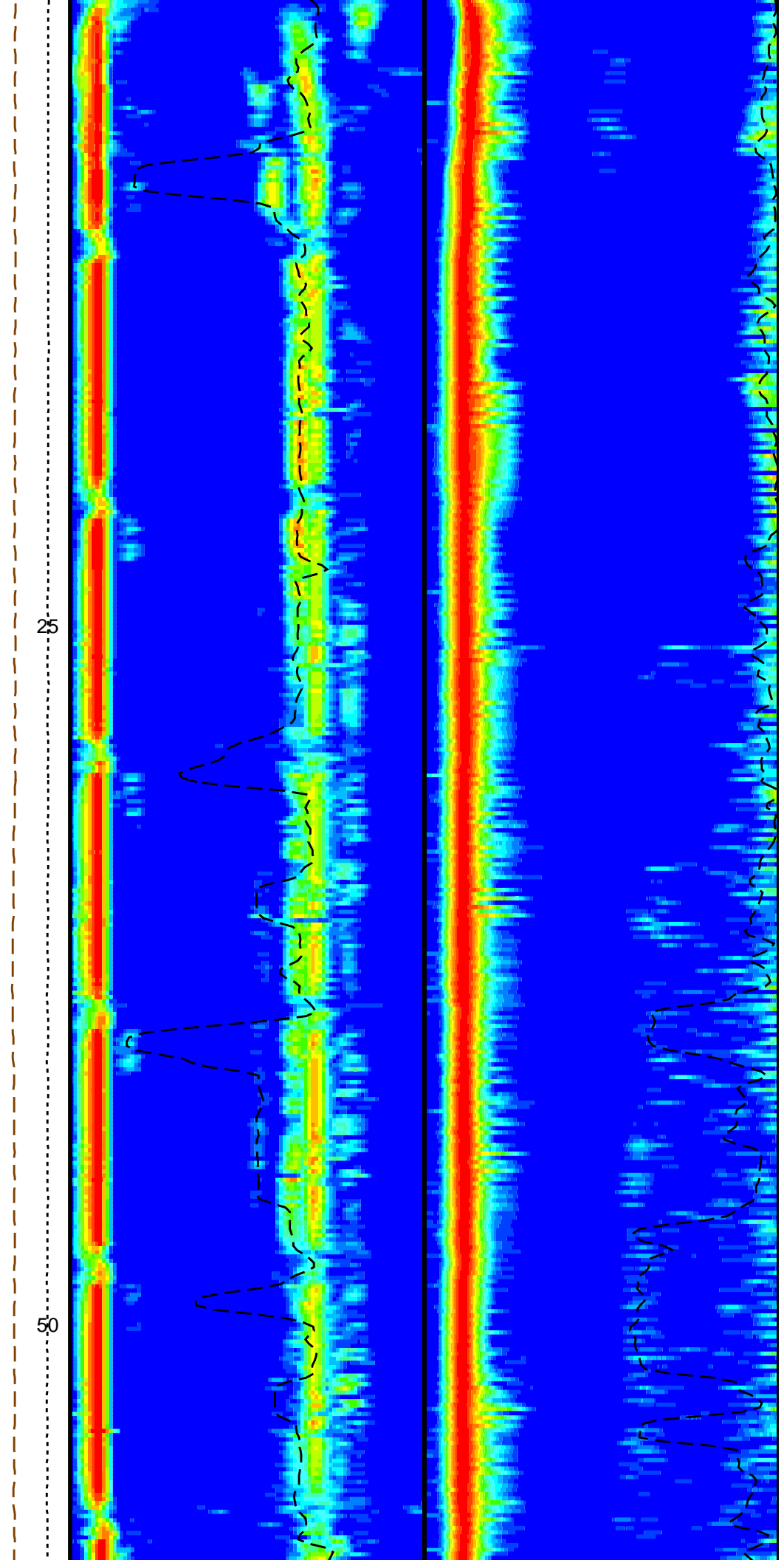
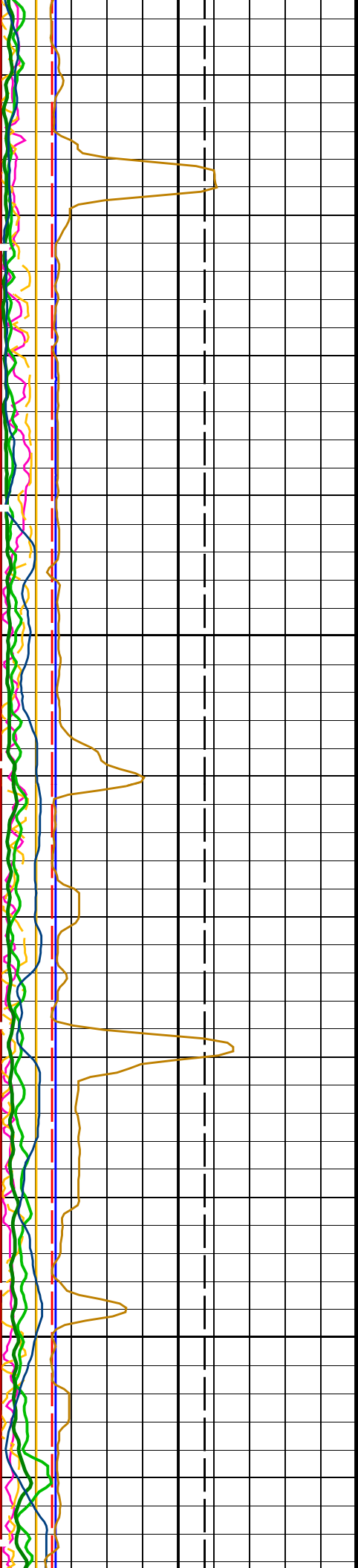
Calibrated Downhole Force (CDF) (LBF)
 3000 0

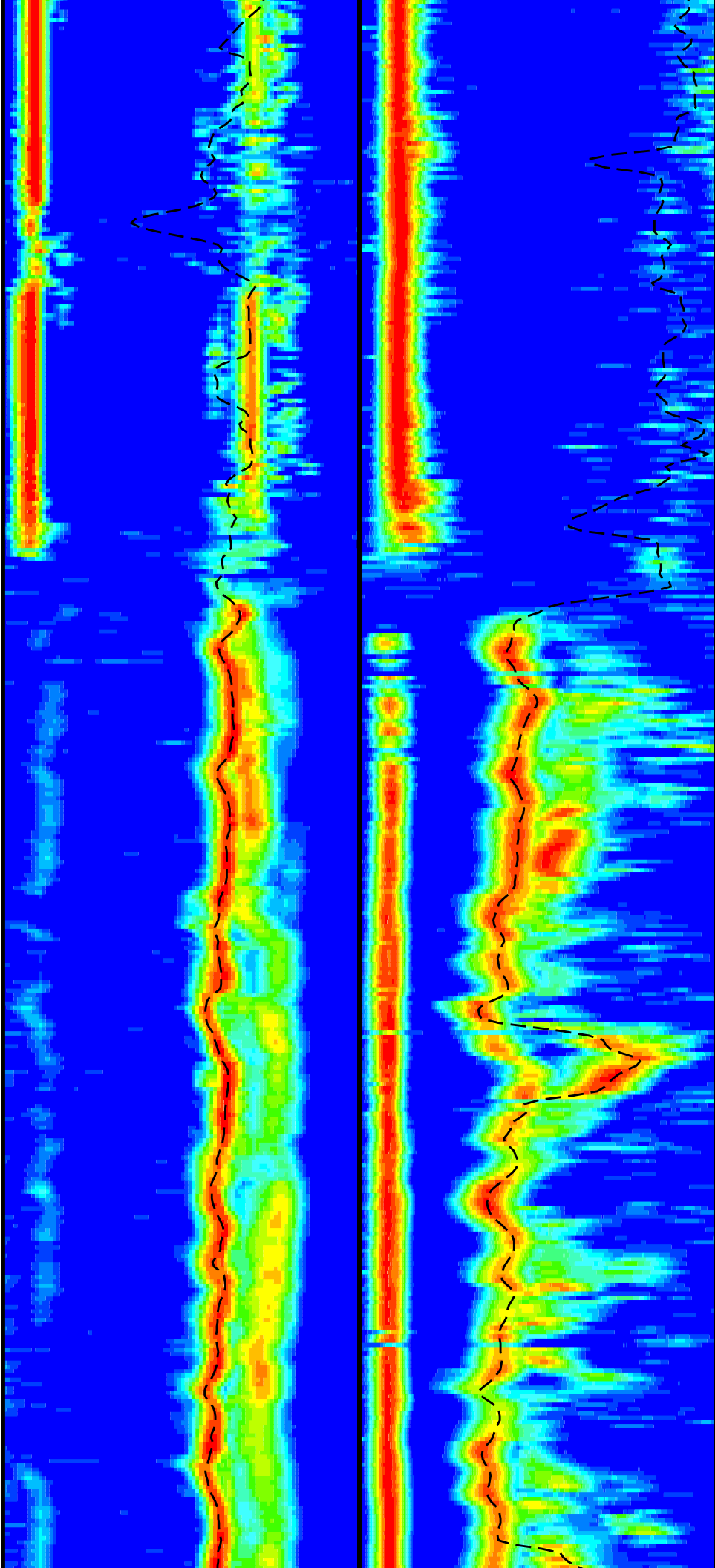
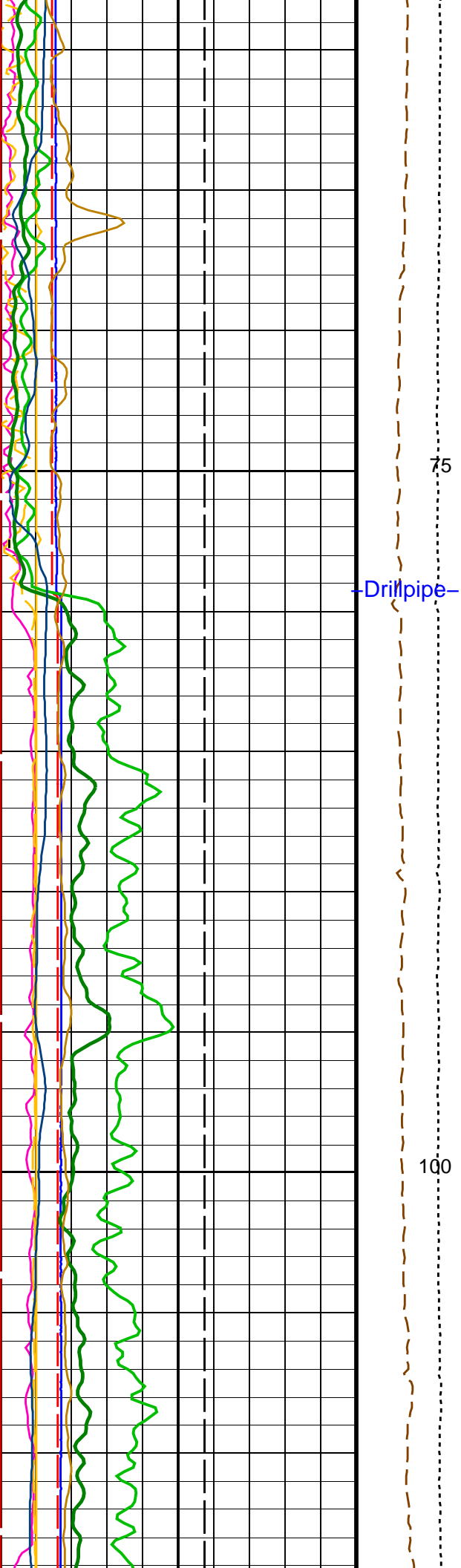


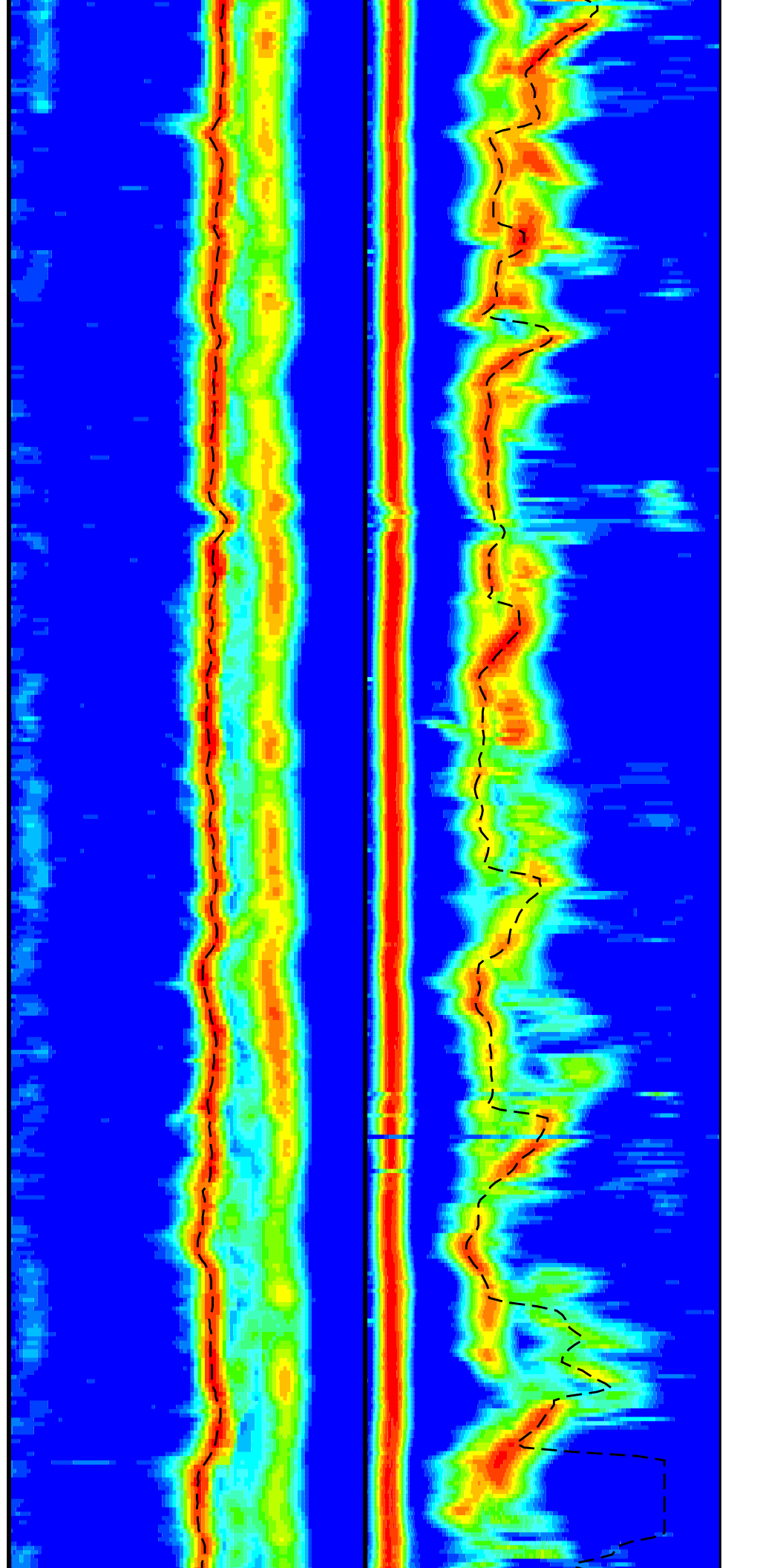
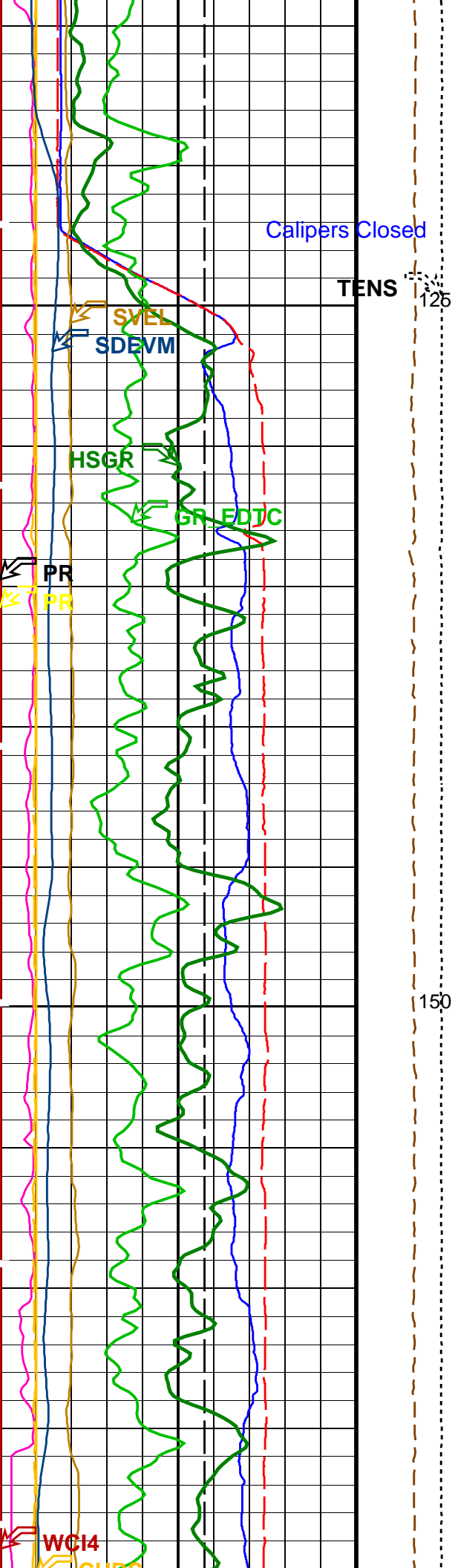
Tension (TENS) (LBF)
 10000 0

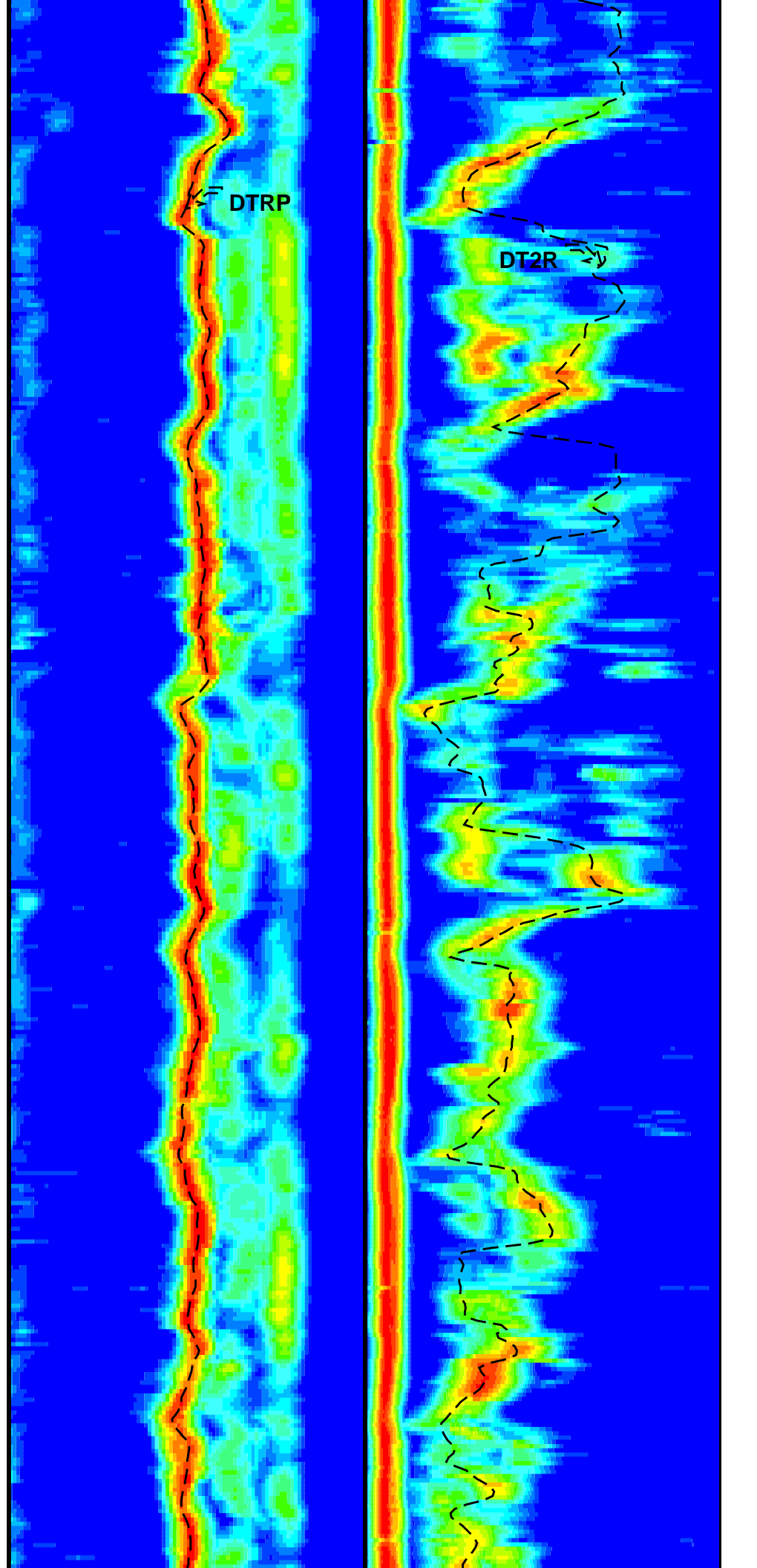
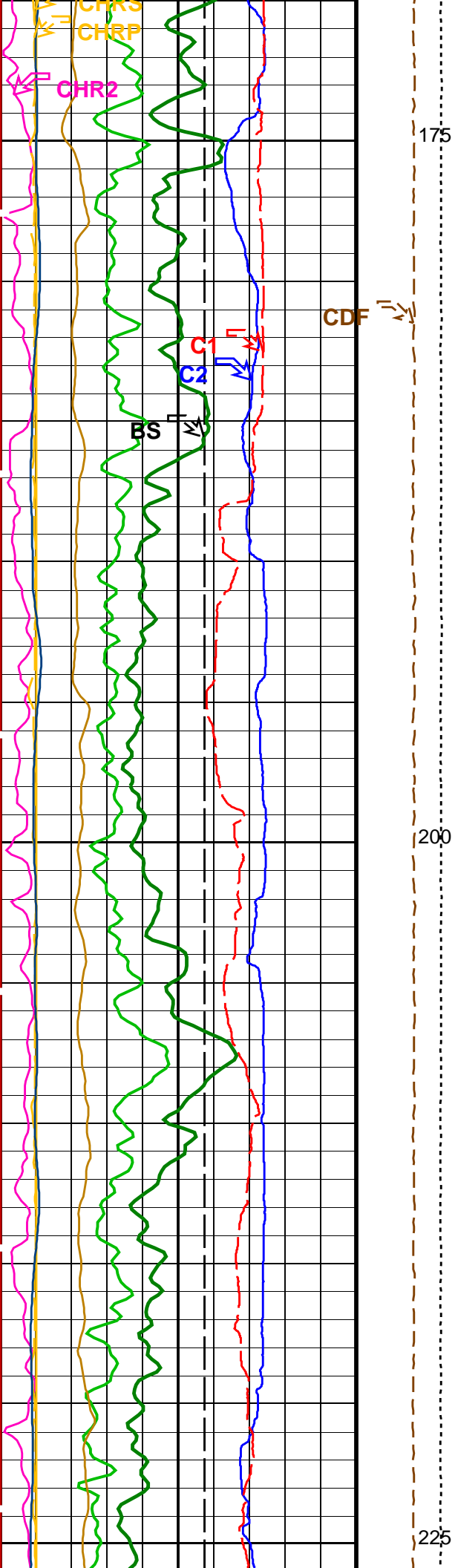


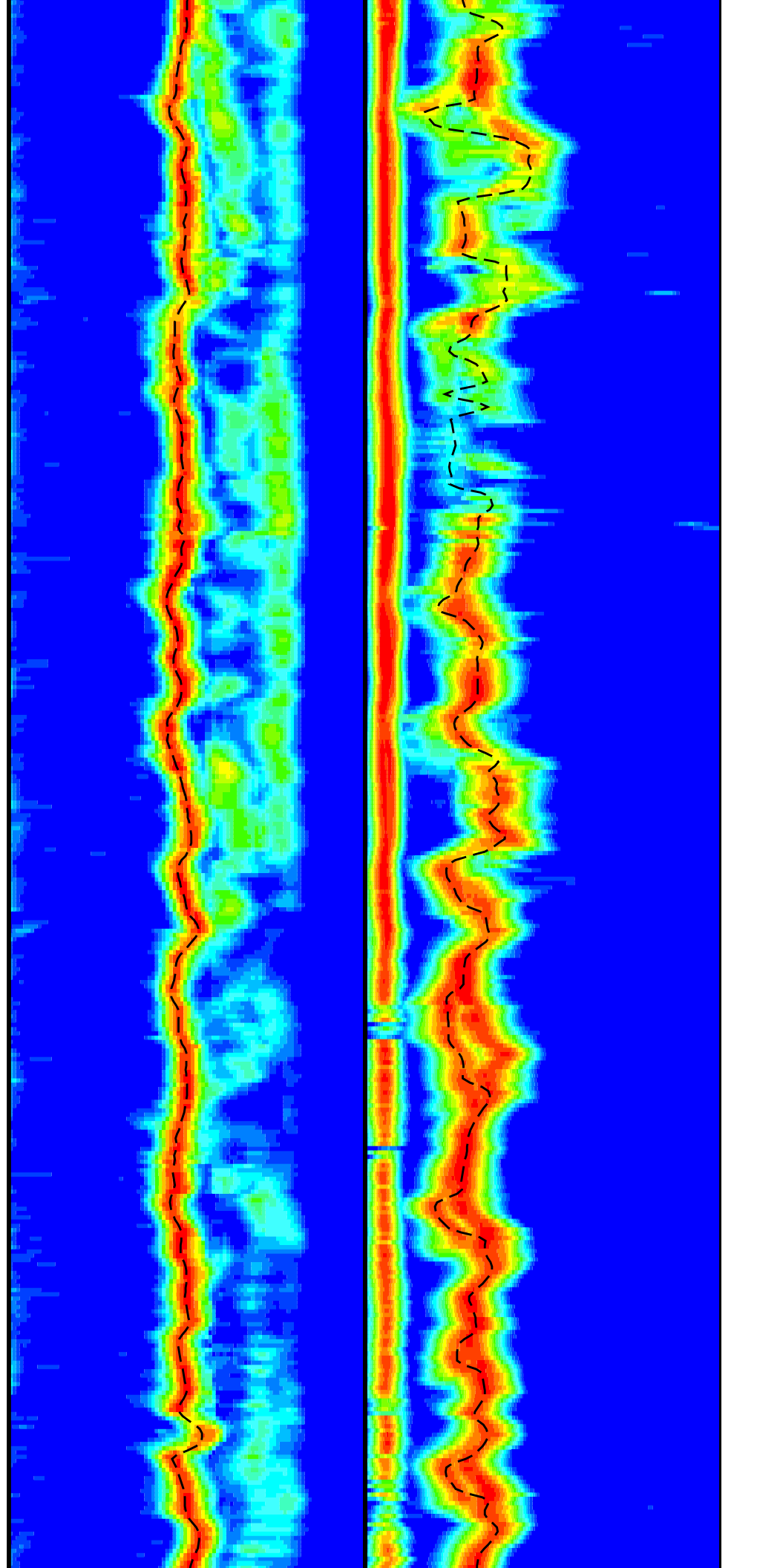
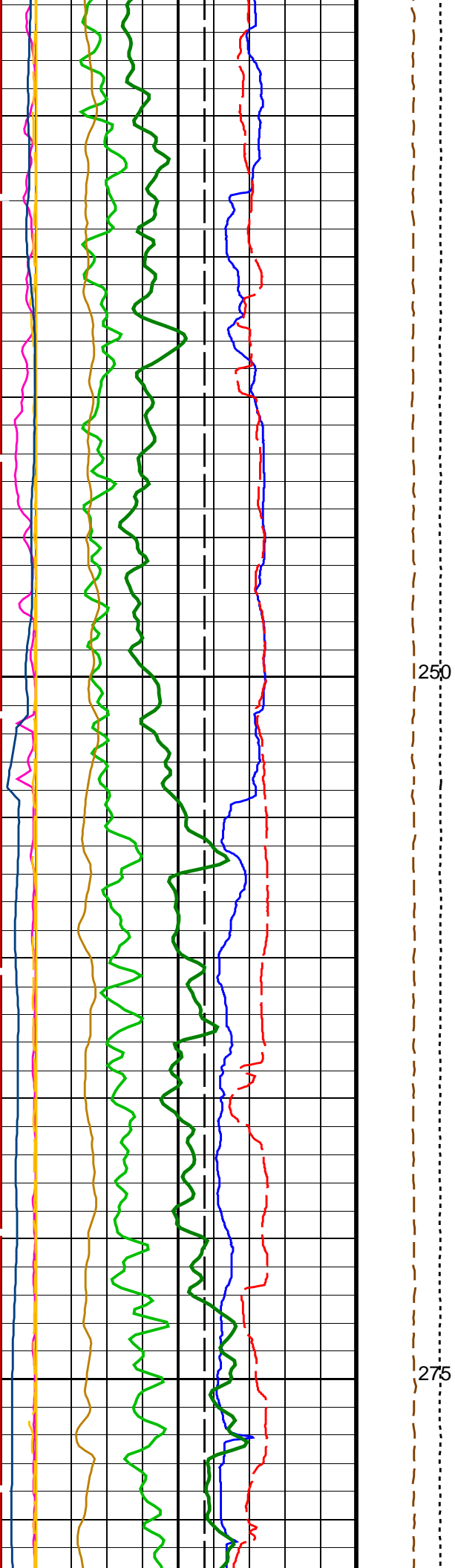
Sea Floor

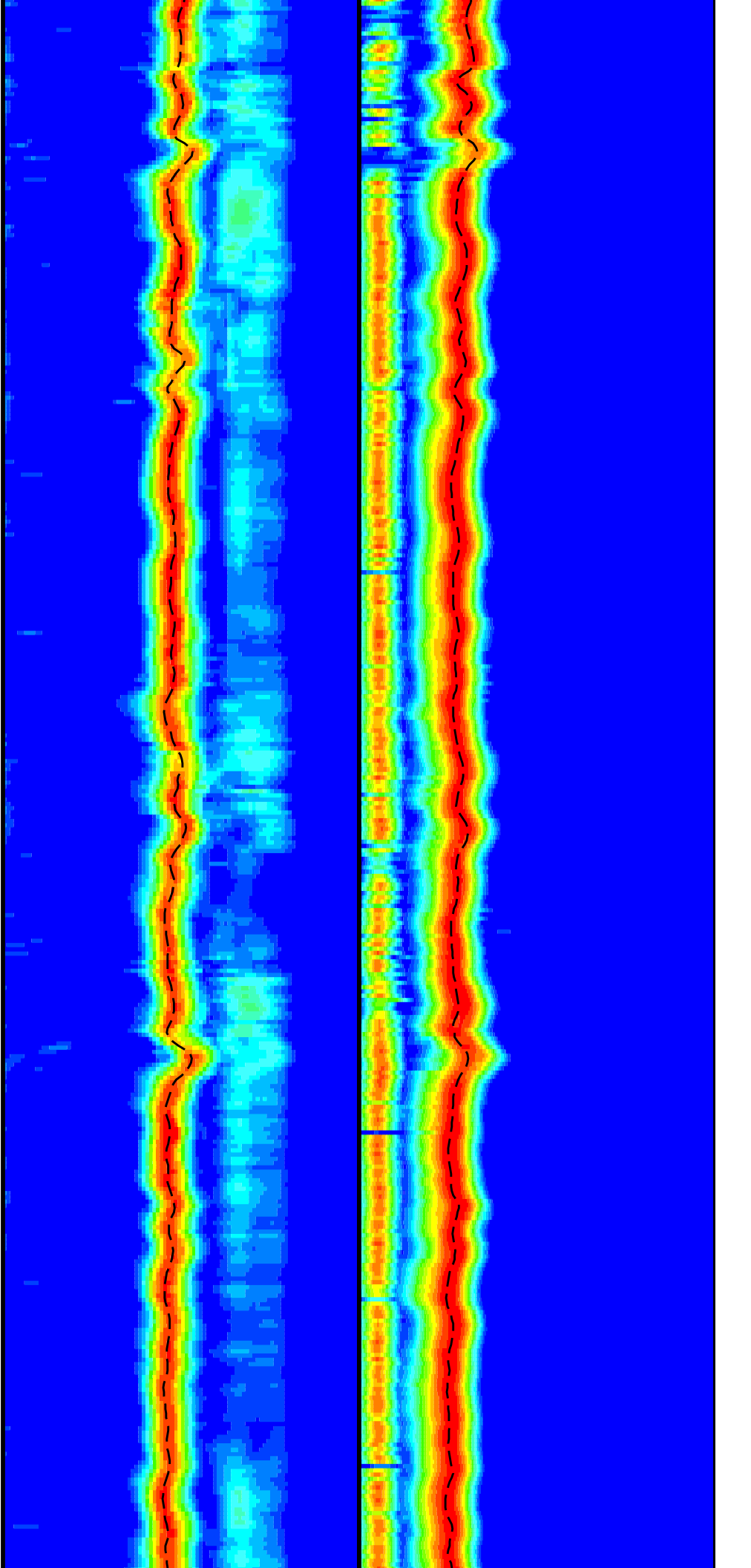
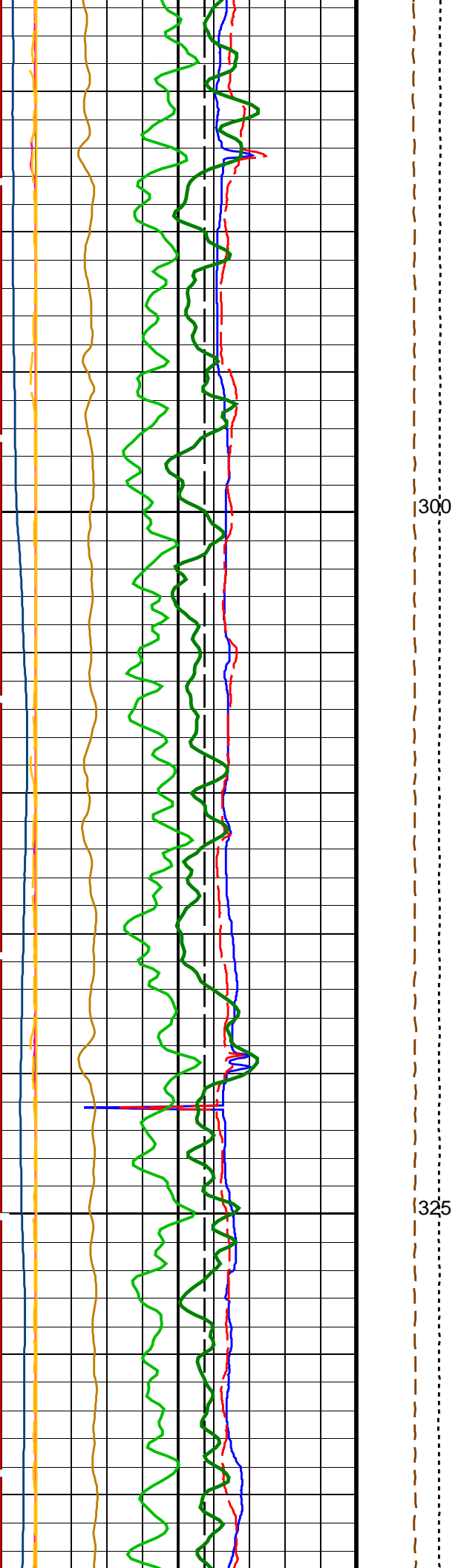


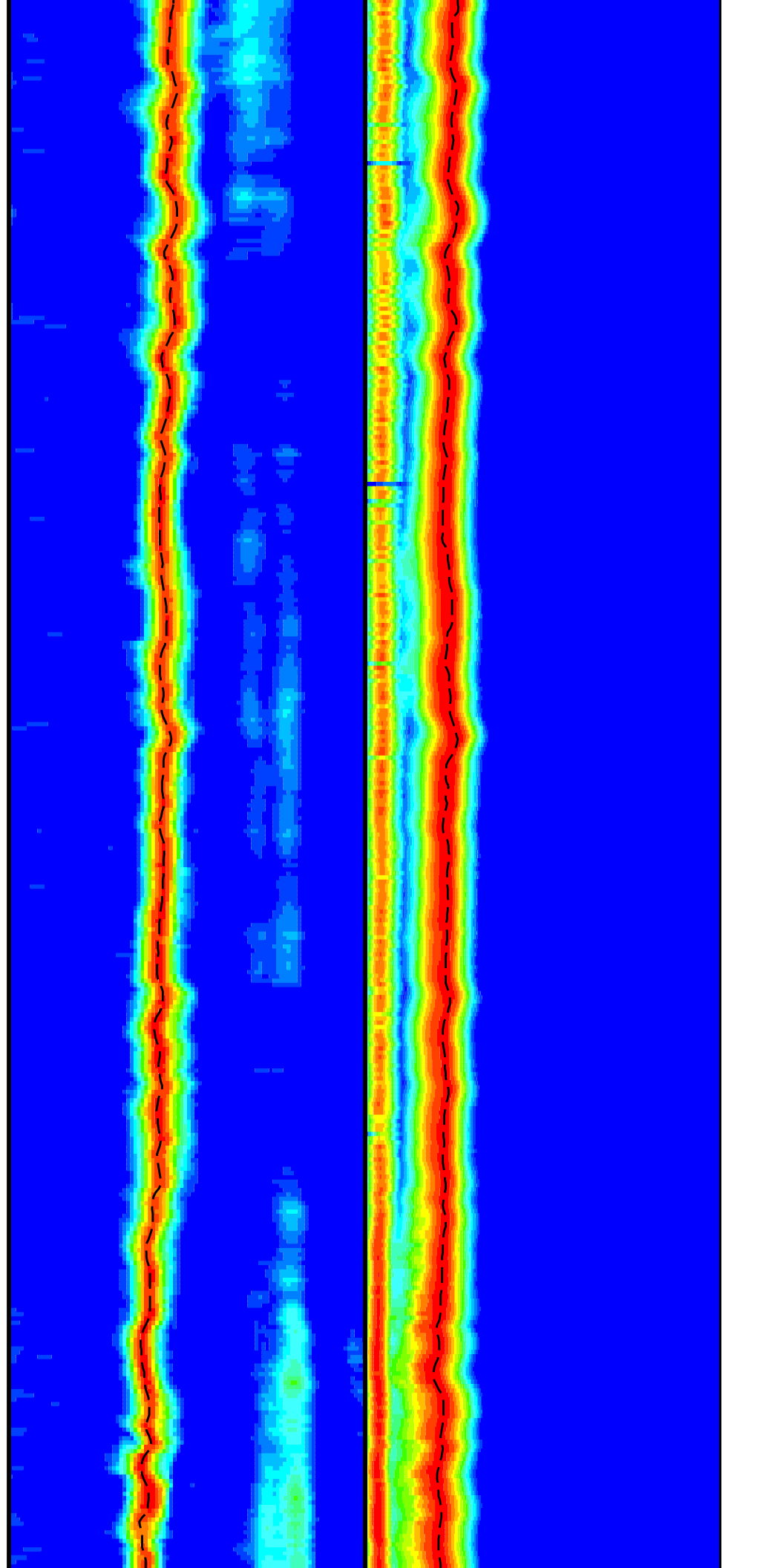
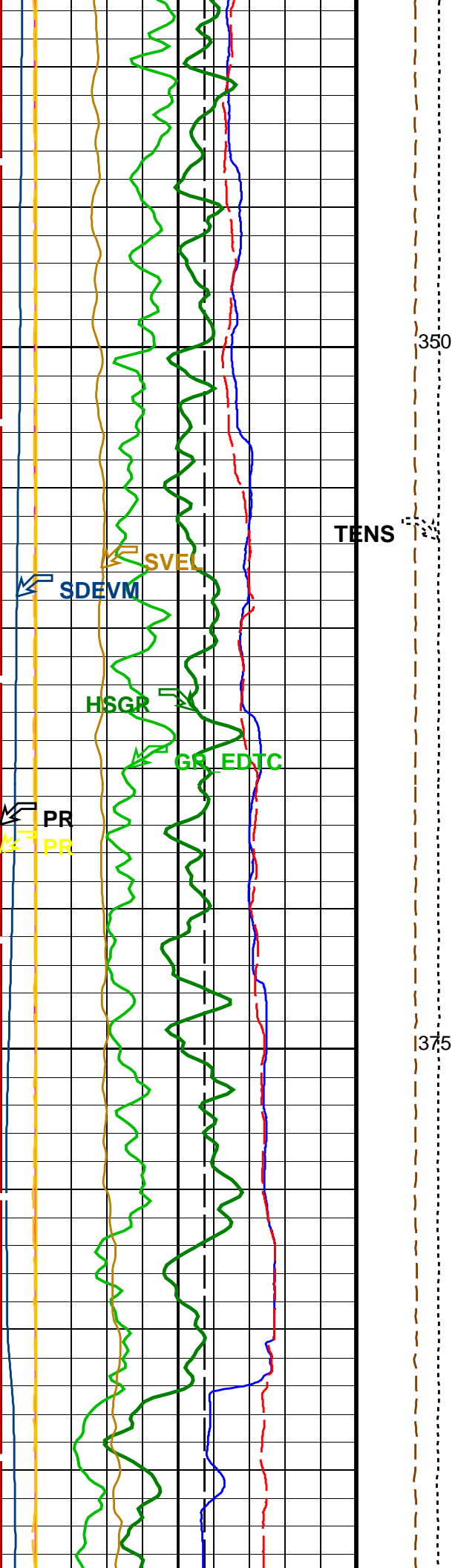


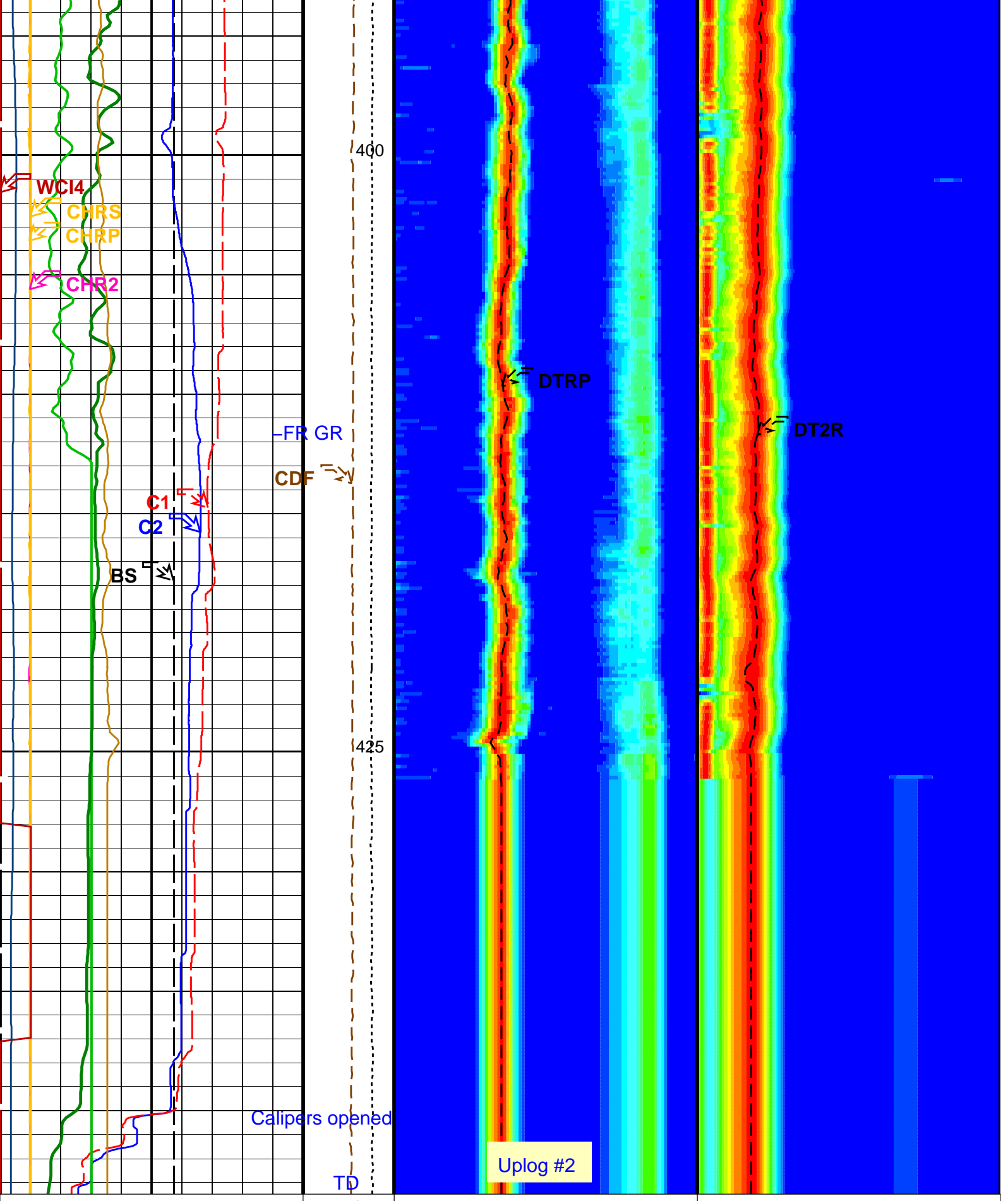












Bit Size (BS)
(IN)

0 20

Tension
(TENS)
(LBF)

10000 0

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

40 240

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

75 1200

Caliper 2 (C2)

Calibrated Downhole Force

Delta-T Shear / RA - P & S (DTRS)

Min Amplitude Max

Uplug #2

Calipers opened

TD

400

425

WCI4
CHRS
CHRP
CHR2

BS


C1
C2

-FR GR

CDF

DTRP

DT2R

0	(IN)	20	(CDF) (LBF)	40	(US/F)	240	Rec.Array U.Dipole Slow Proj. CVDL (SPR2)	75	(US/F)	1200
0	Caliper 1 (C1) (IN)	20	3000	0	Min	Amplitude	Max	 Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240		
0	Poisson's Ratio (PR) (-----)	0.5								
0	Sonde Deviation (SDEVM) (DEG)	10								
1000	Sonic Velocity (SVEL) (M/S)	6000								
0	Poisson's Ratio (PR) (-----)	0.5								
0	Gamma Ray (GR_EDTC) (GAPI)	100								
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)	100								

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner - B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	1.38126 DEG
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	70 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	1200 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	195 US/F
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR
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	C1	
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	B1–3K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	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	1200	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	20200	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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00139658	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	0.968311	

VBA2	HNGS Detector 2 Variable Barite Cartridge	0.949126
BHS	EDTC-B: Enhanced DTS Cartridge	
GCSE	Borehole Status	OPEN
	Generalized Caliper Selection	C1
BS	System and Miscellaneous	
DO	Bit Size	11.438 IN
PP	Depth Offset for Playback	-158.0 M
	Playback Processing	RECOMPUTE

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 19-Sep-2015 14:24

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

DEFAULT	FMS_DSI_NGS_025LUP	FN:32	PRODUCER	15-Sep-2015 19:09	601.2 M	135.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_043PUP	FN:54	PRODUCER	19-Sep-2015 14:24		
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Company: International Ocean Discovery Program Well: Expedition 356, Site U1463B

Input DLIS Files

DEFAULT	FMS_DSI_NGS_025LUP	FN:32	PRODUCER	15-Sep-2015 19:09	601.2 M	135.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_043PUP	FN:54	PRODUCER	19-Sep-2015 14:24	443.5 M	-22.7 M
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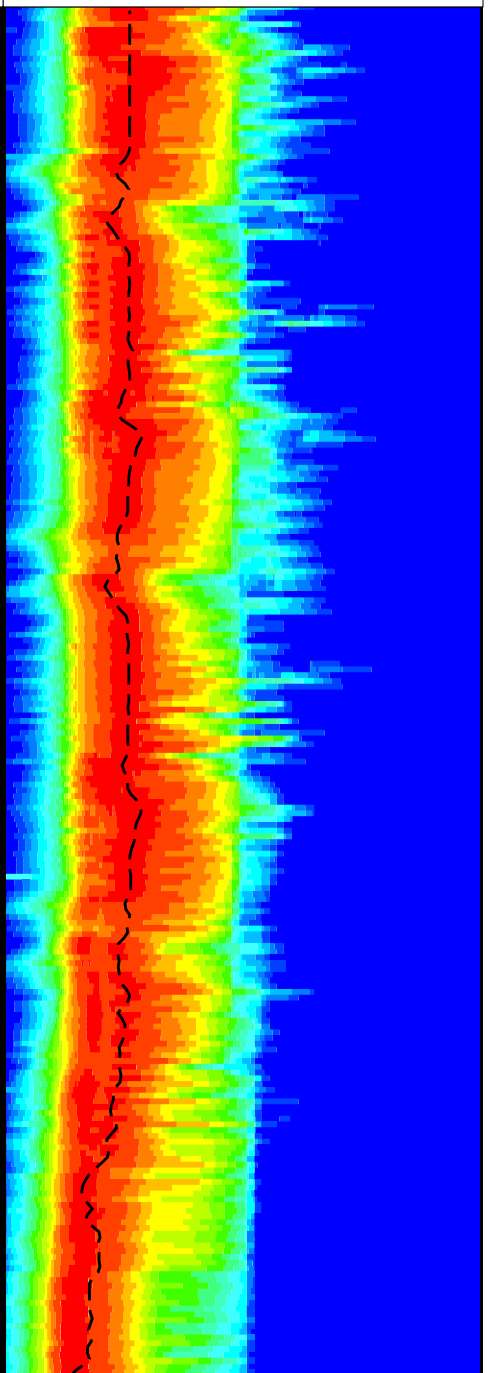
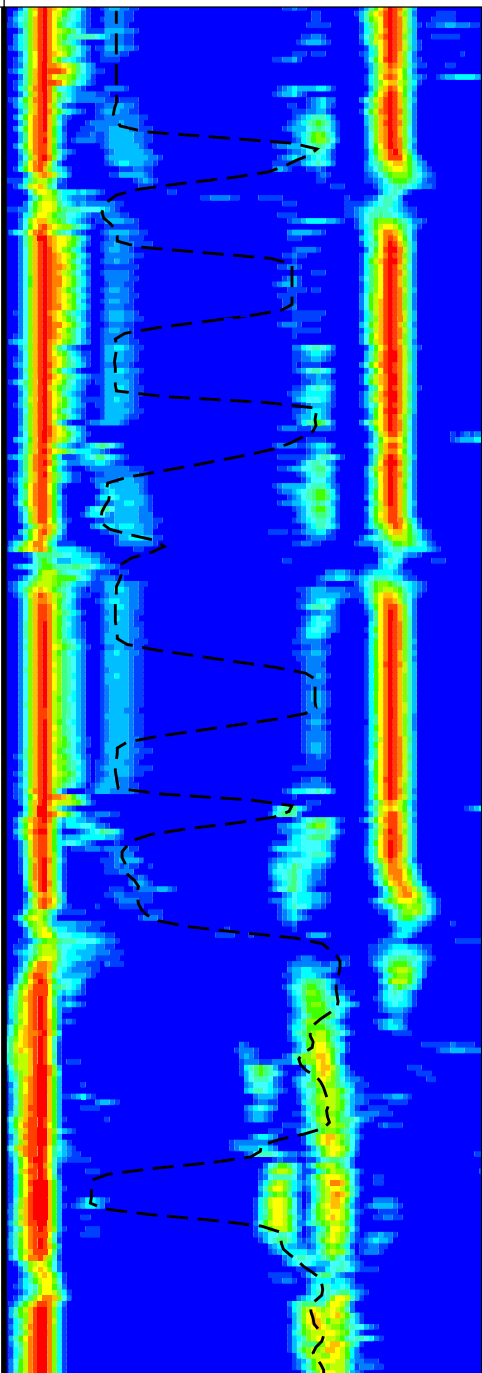
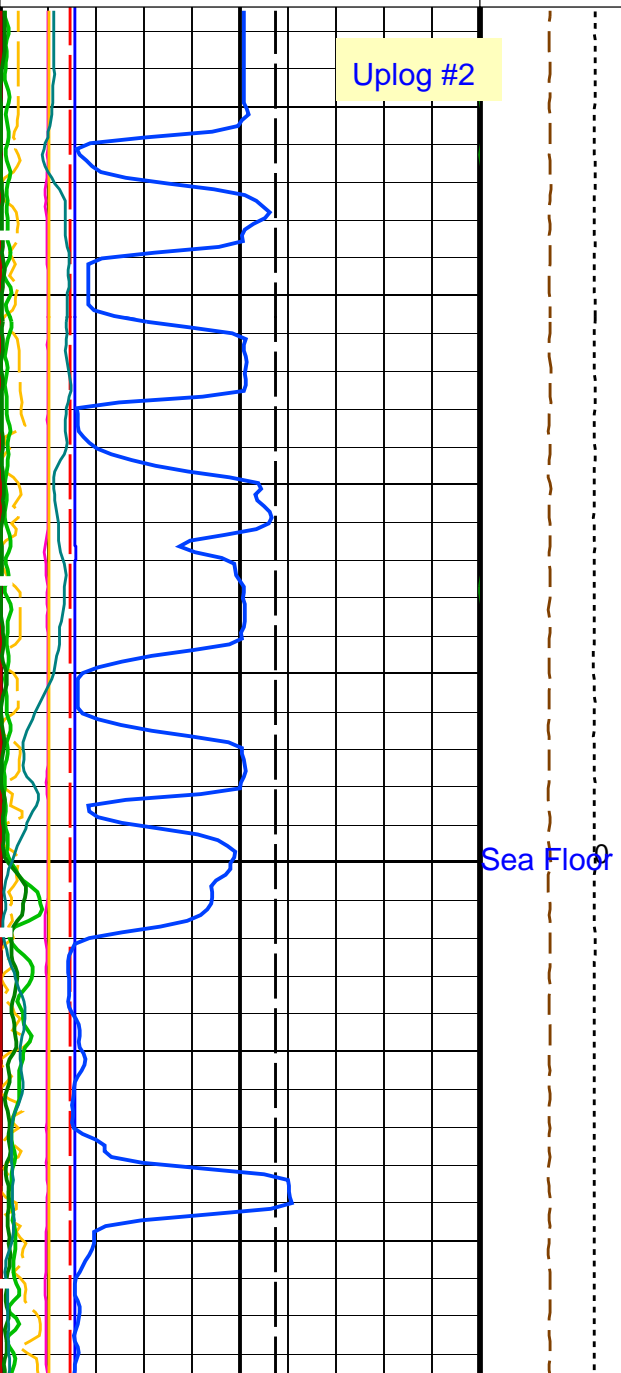
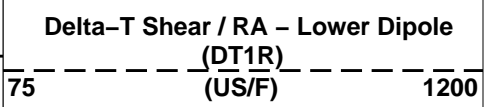
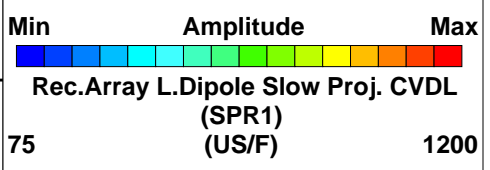
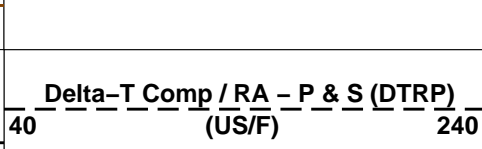
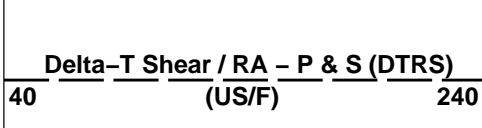
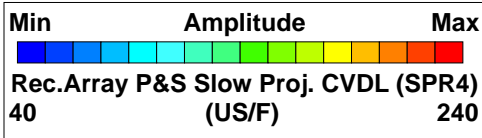
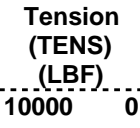
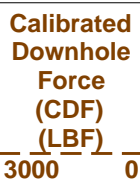
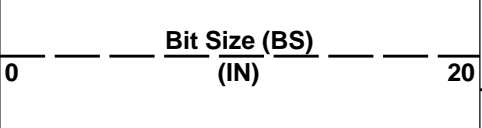
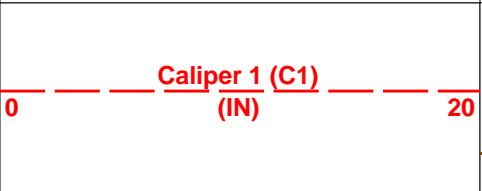
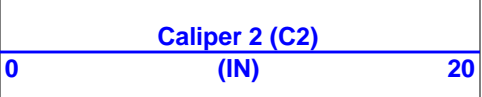
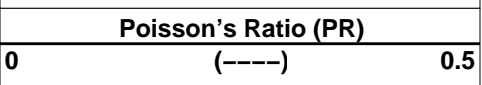
OP System Version: 19C0-187

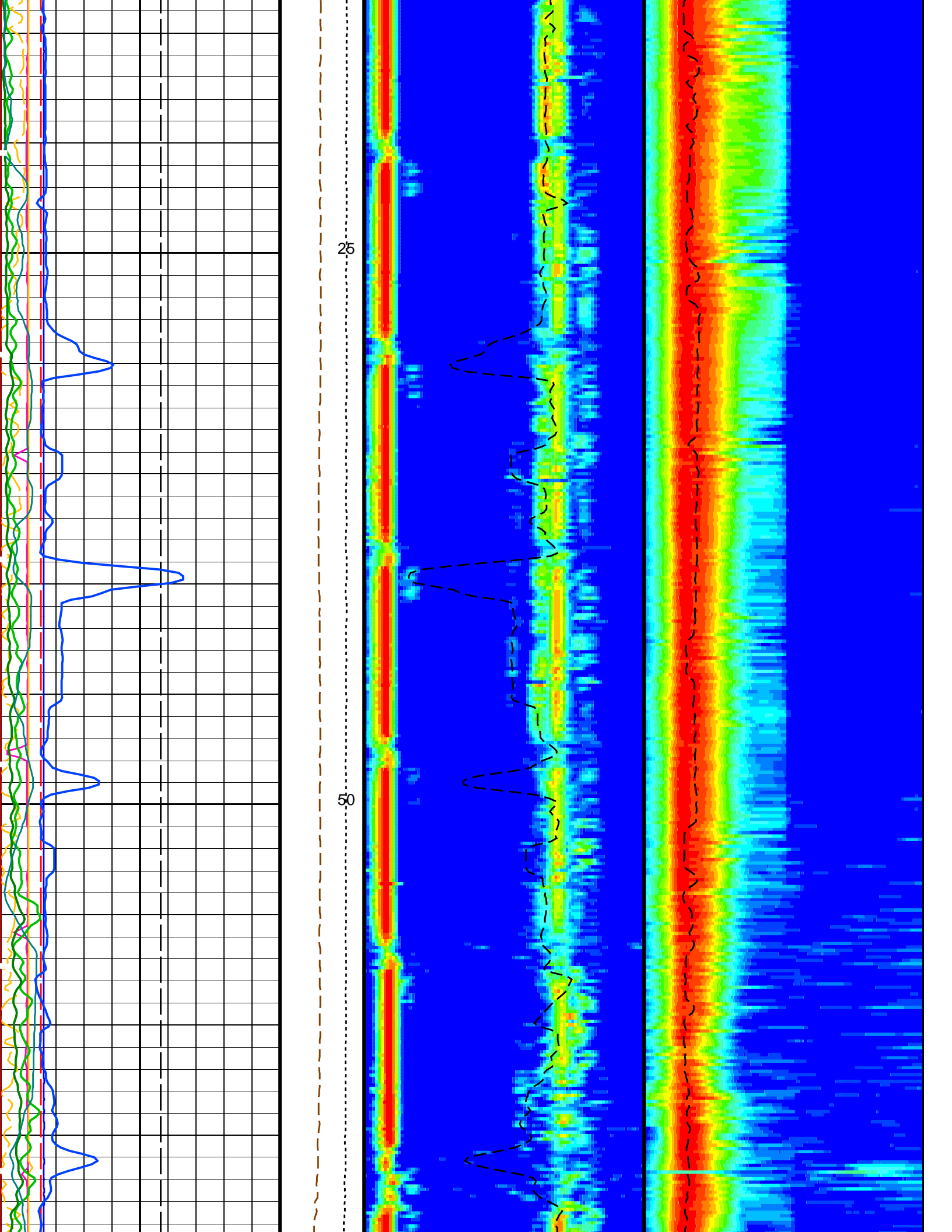
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

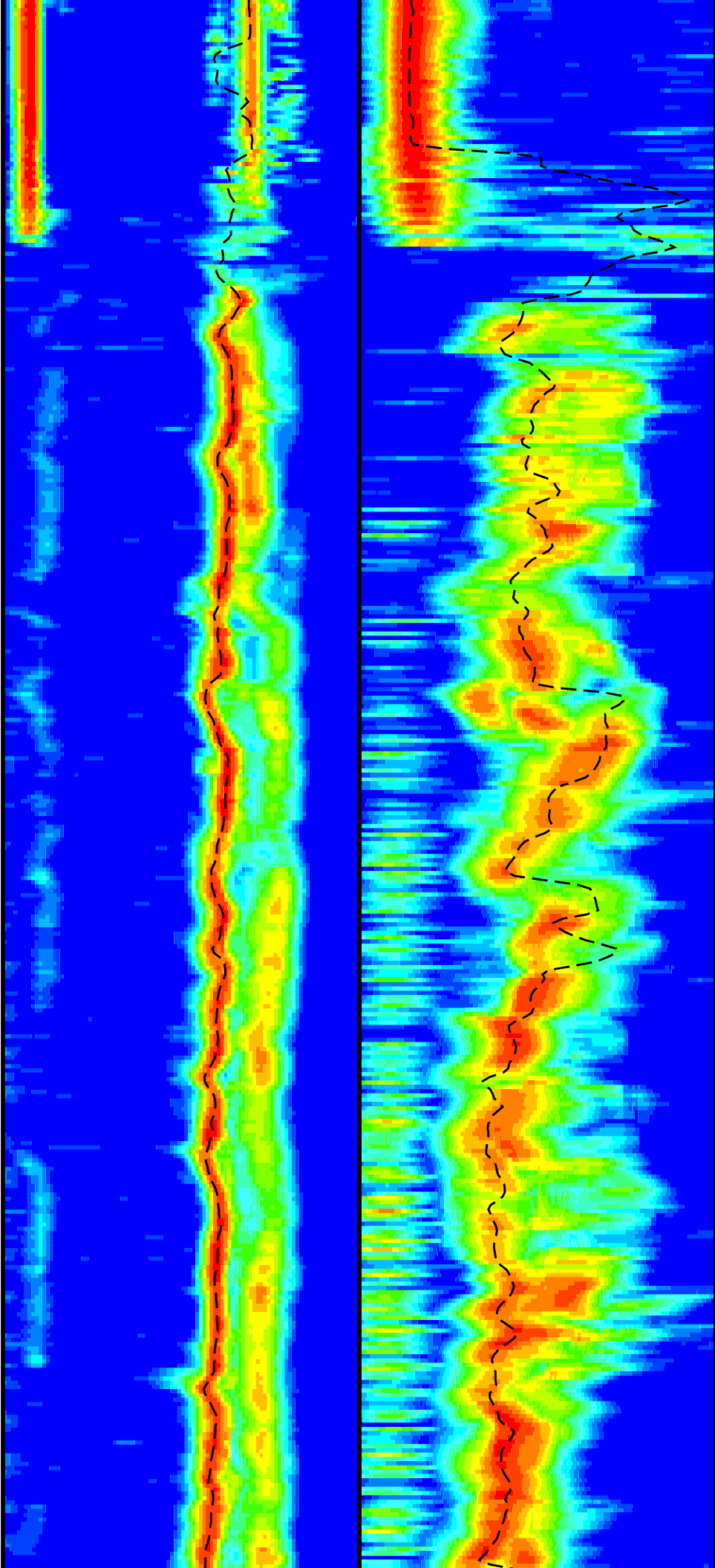
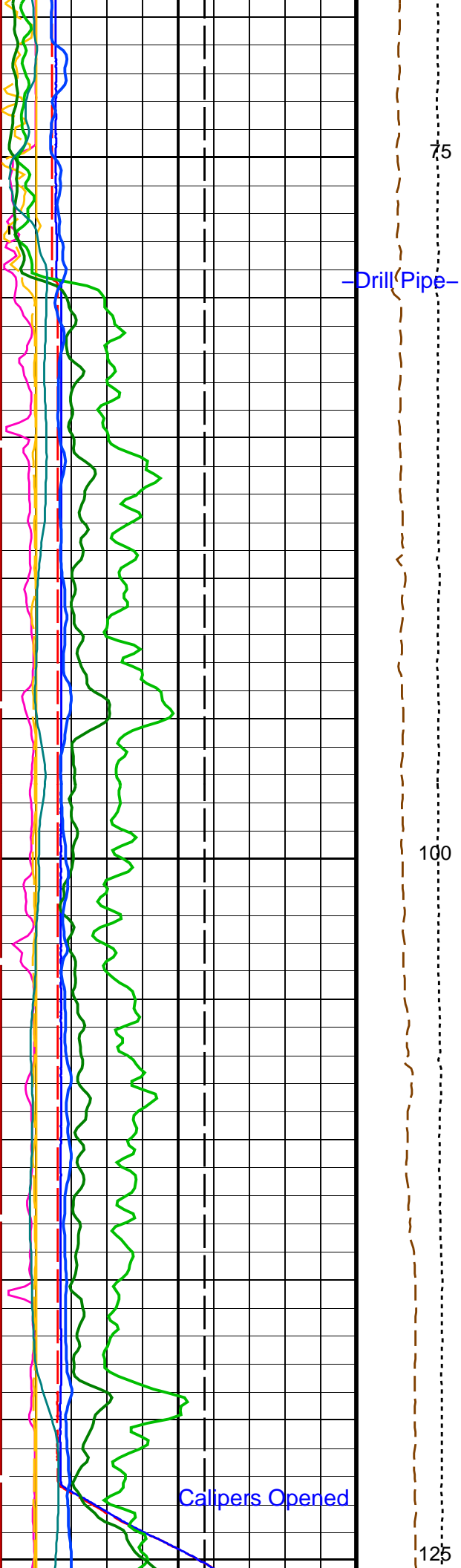
PIP SUMMARY

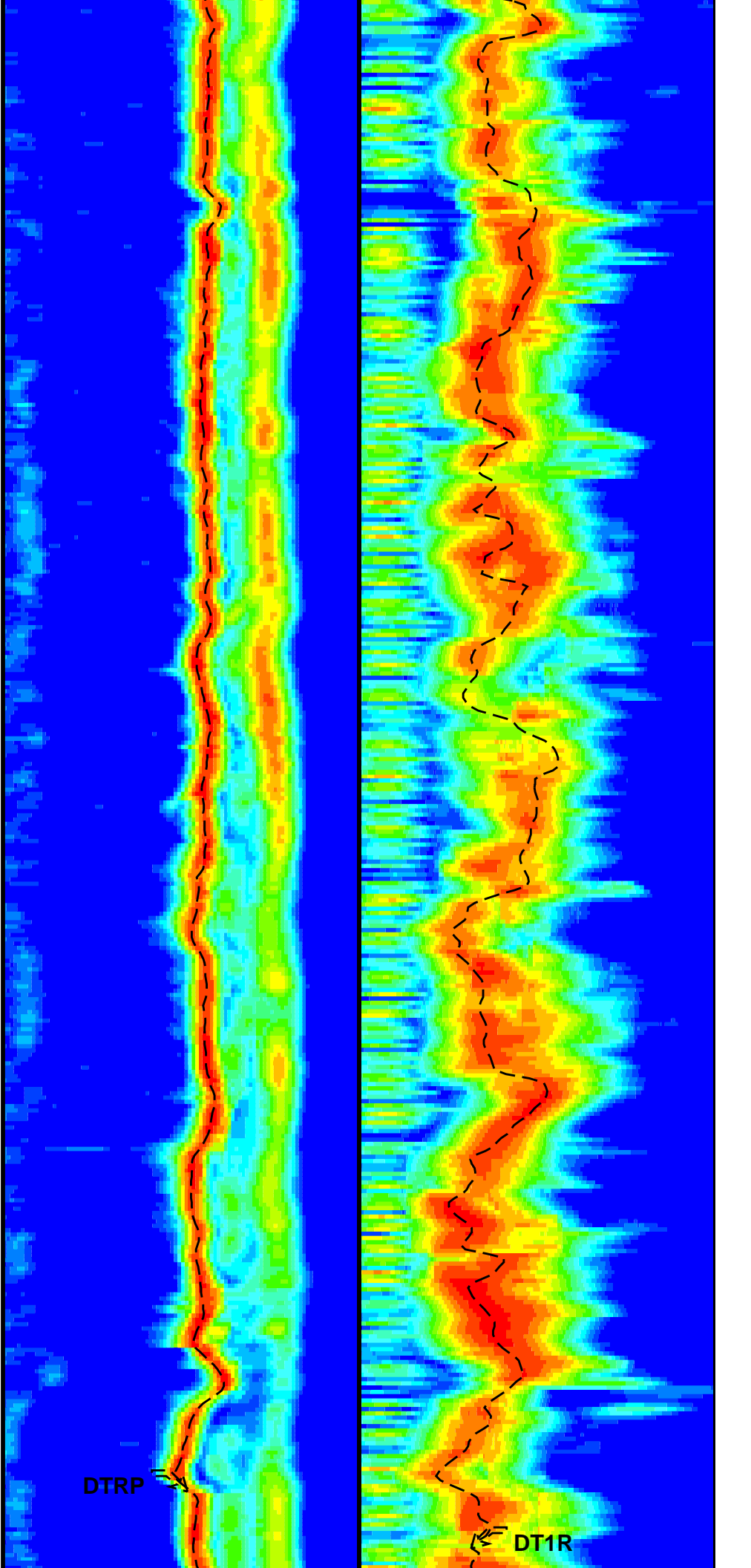
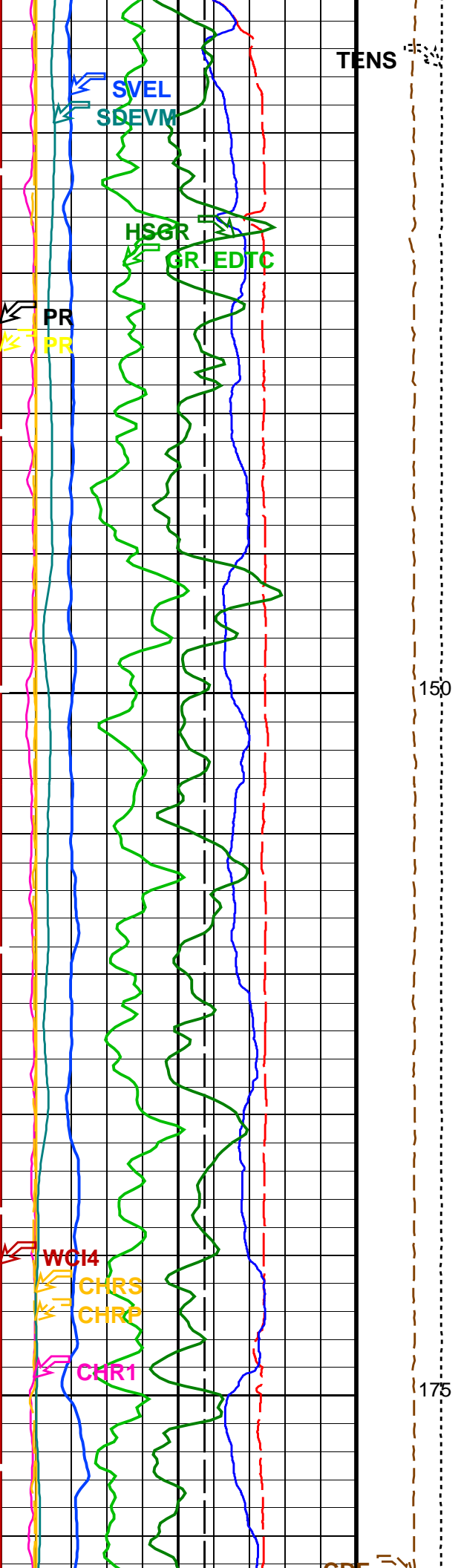
Time Mark Every 60 S

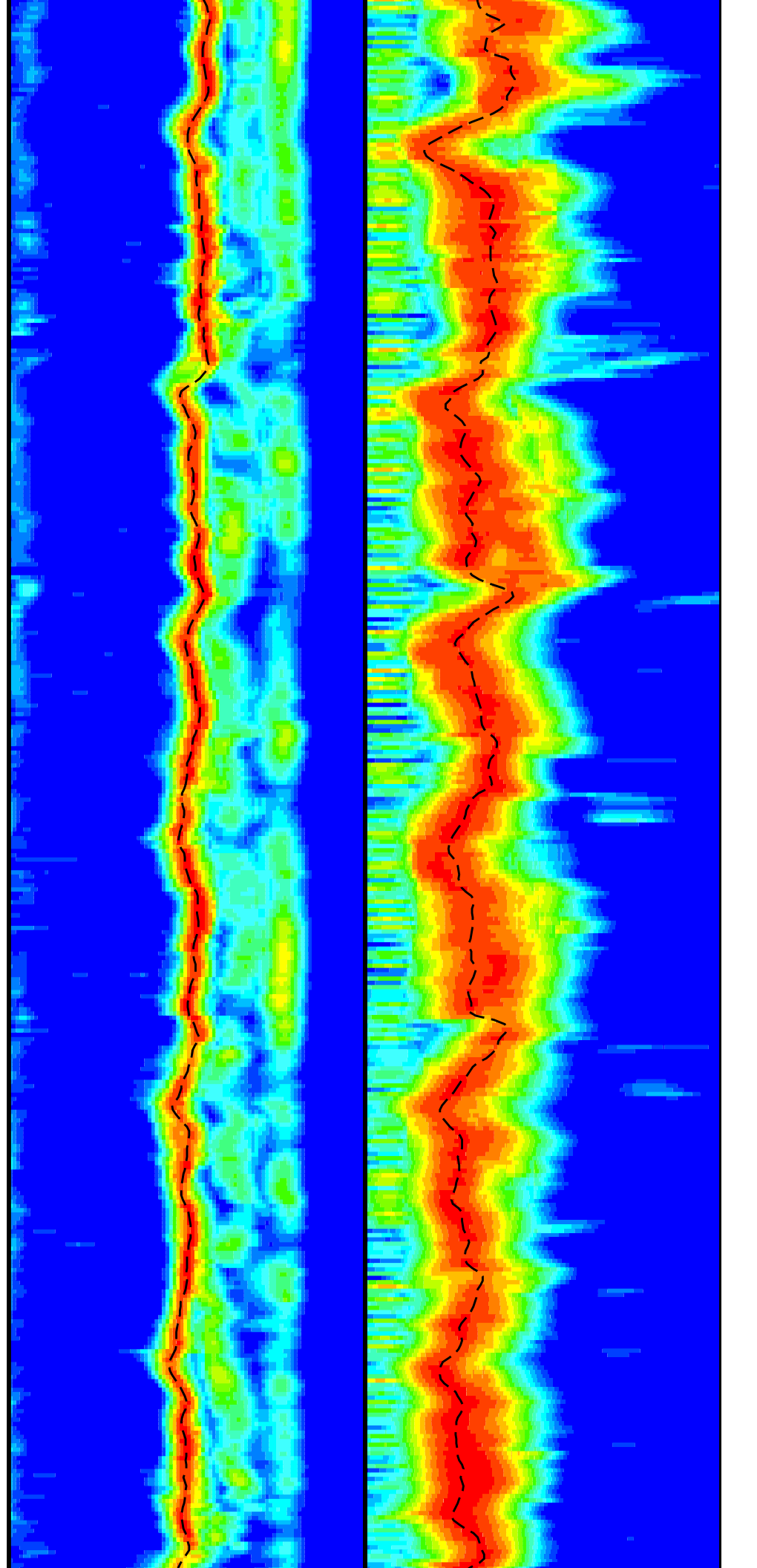
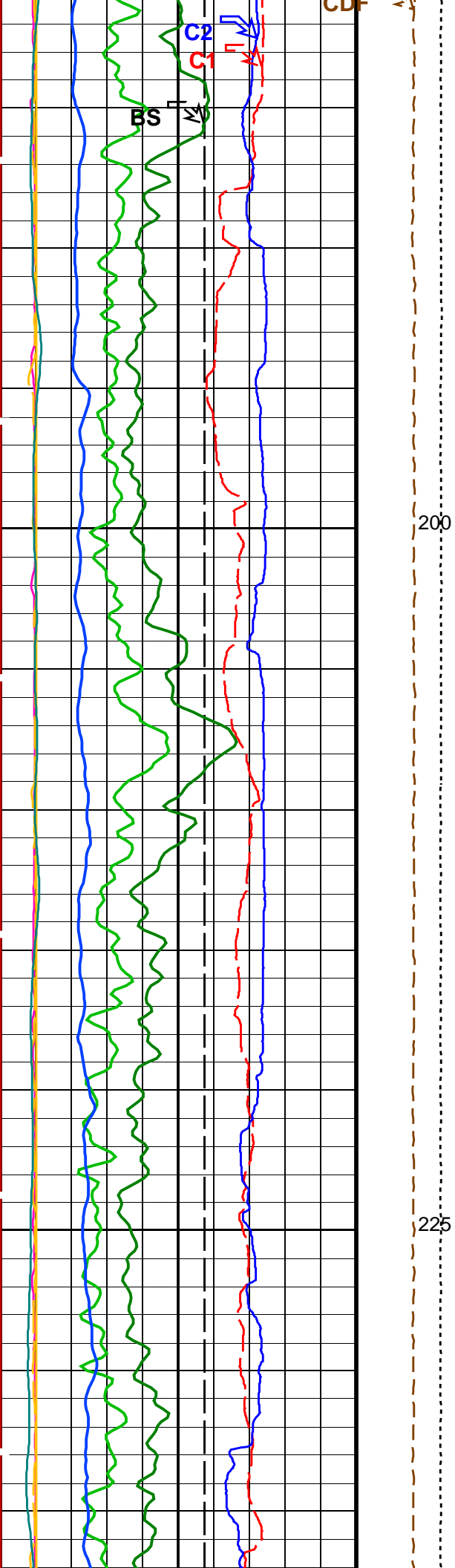
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / RA - Lower Dipole (CHR1)		
0	(----)	10
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Gamma Ray (GR_EDTC)		
0	(GAPI)	100

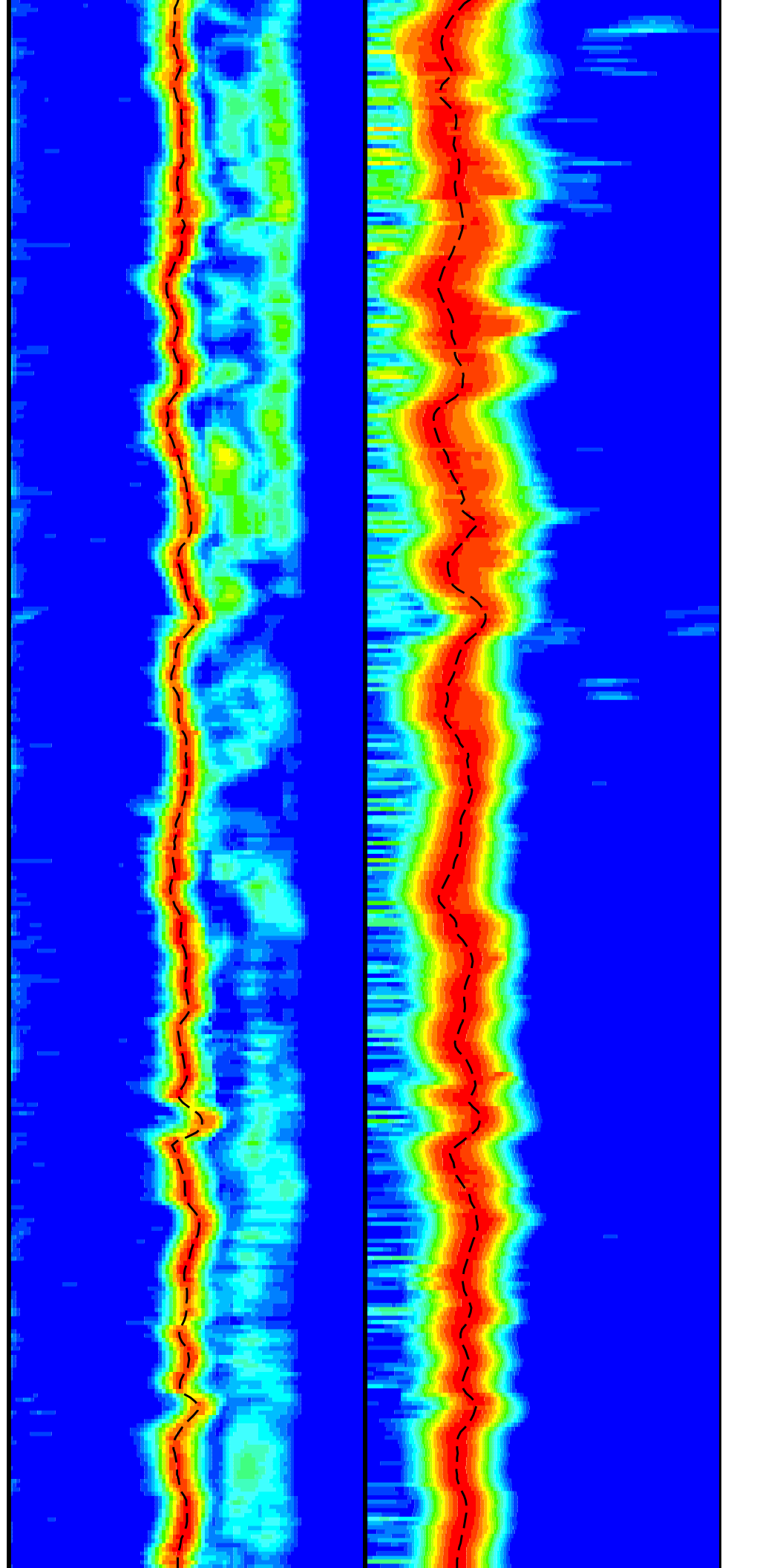
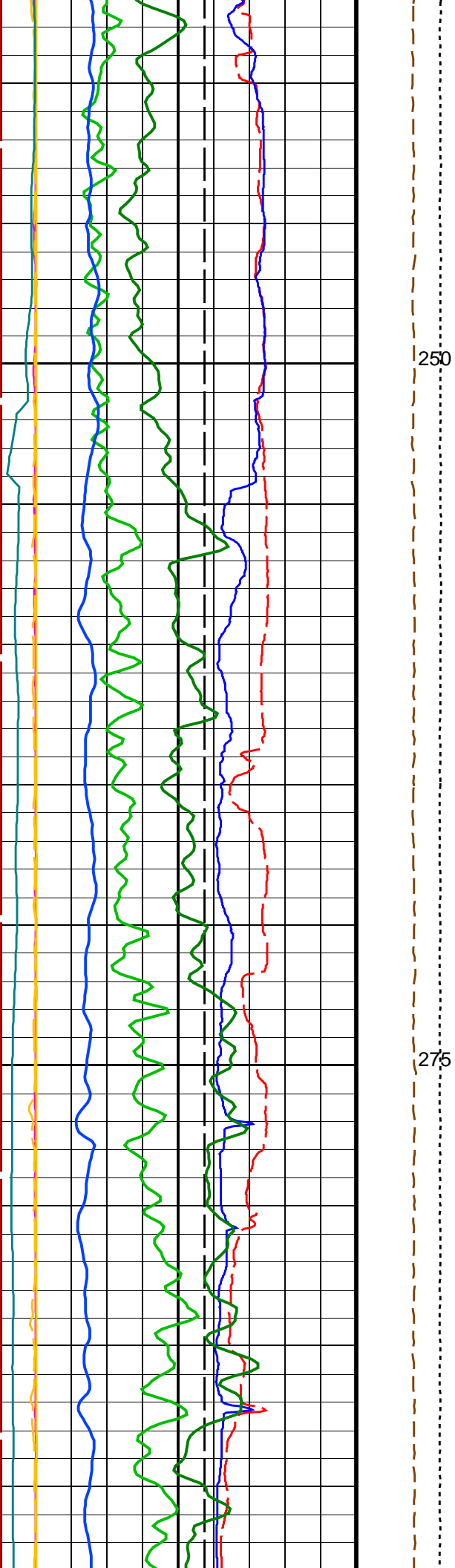


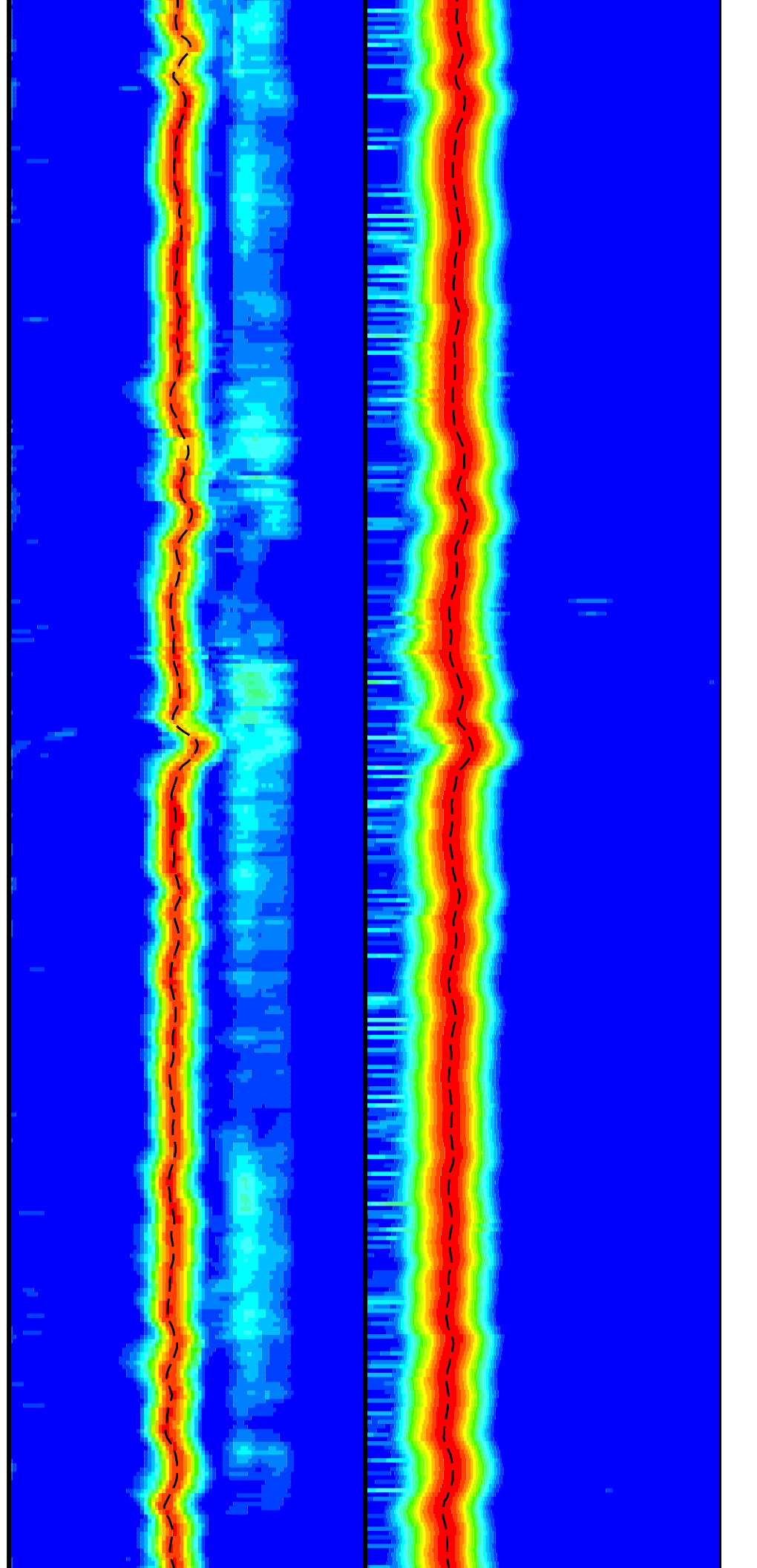
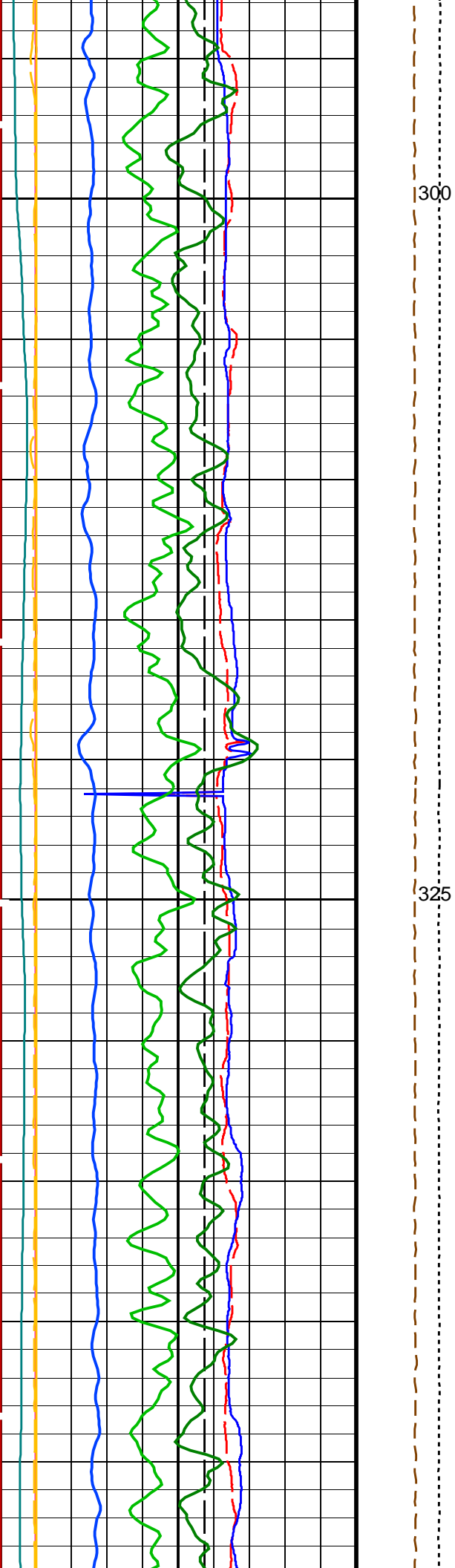


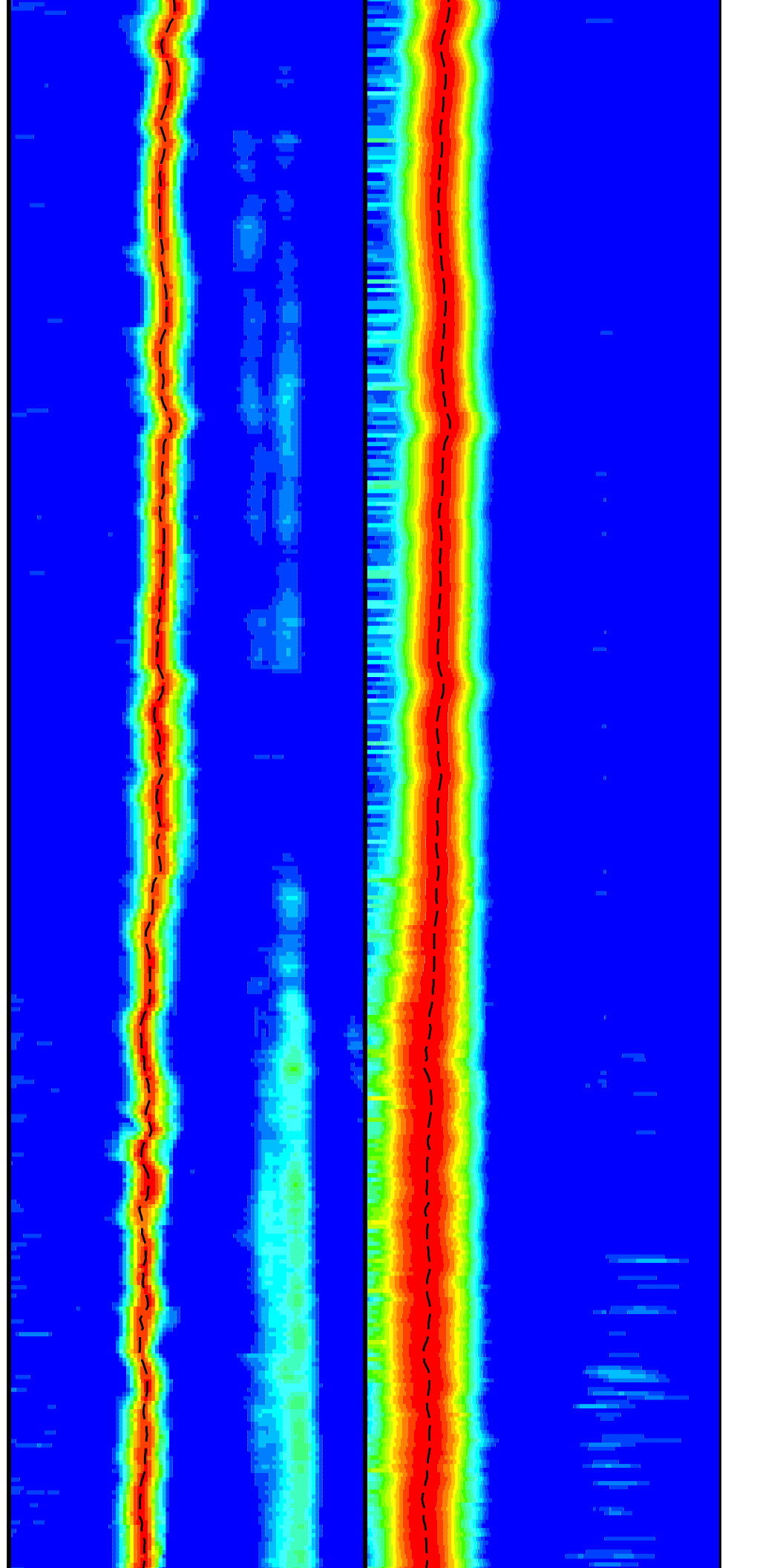
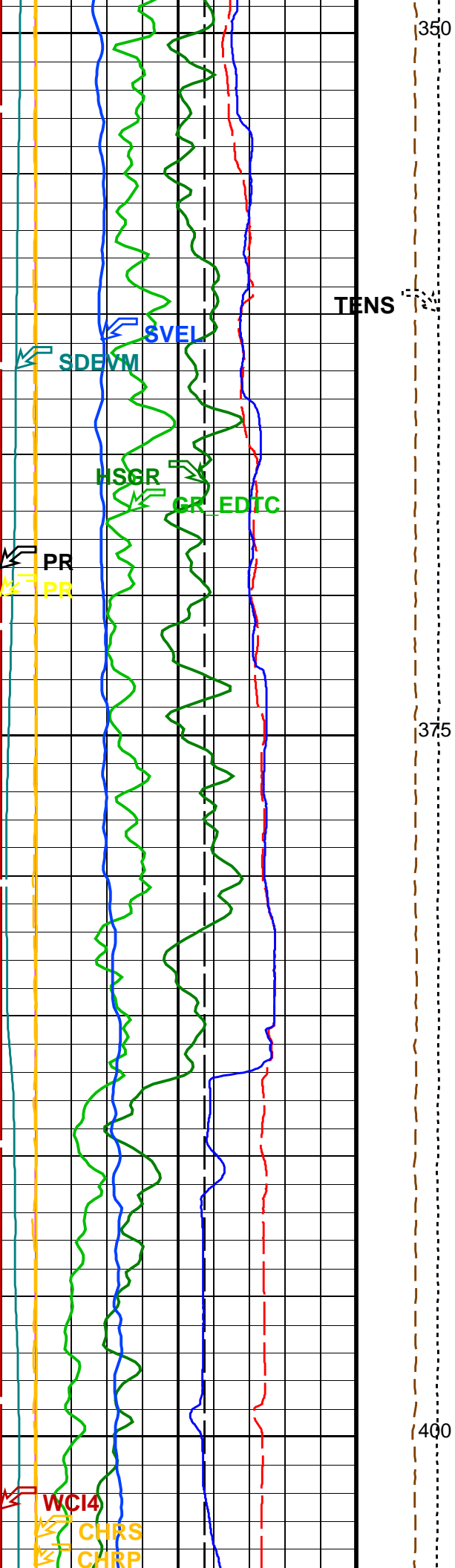


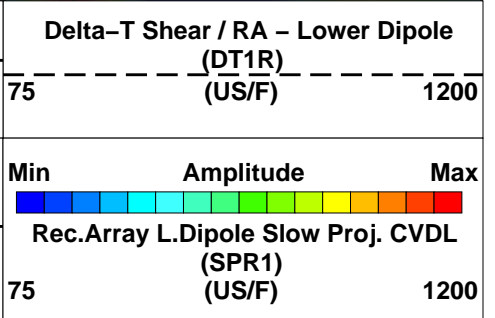
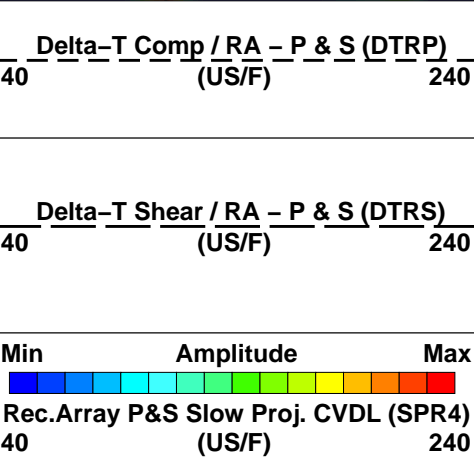
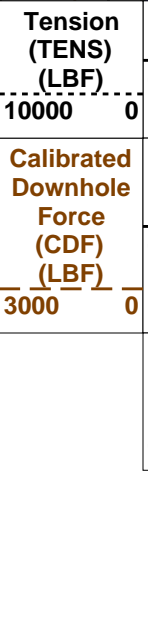
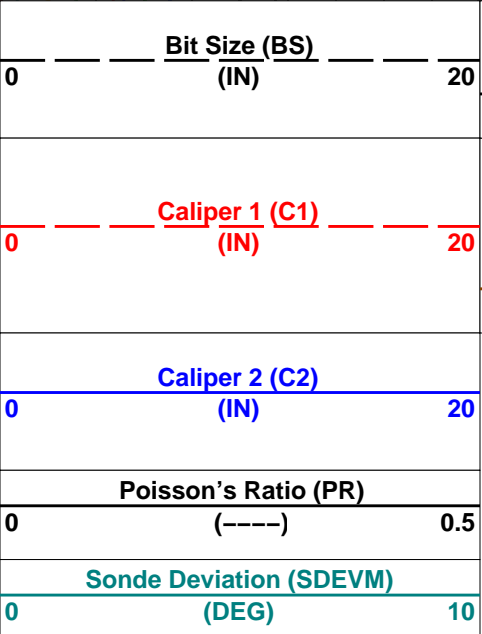
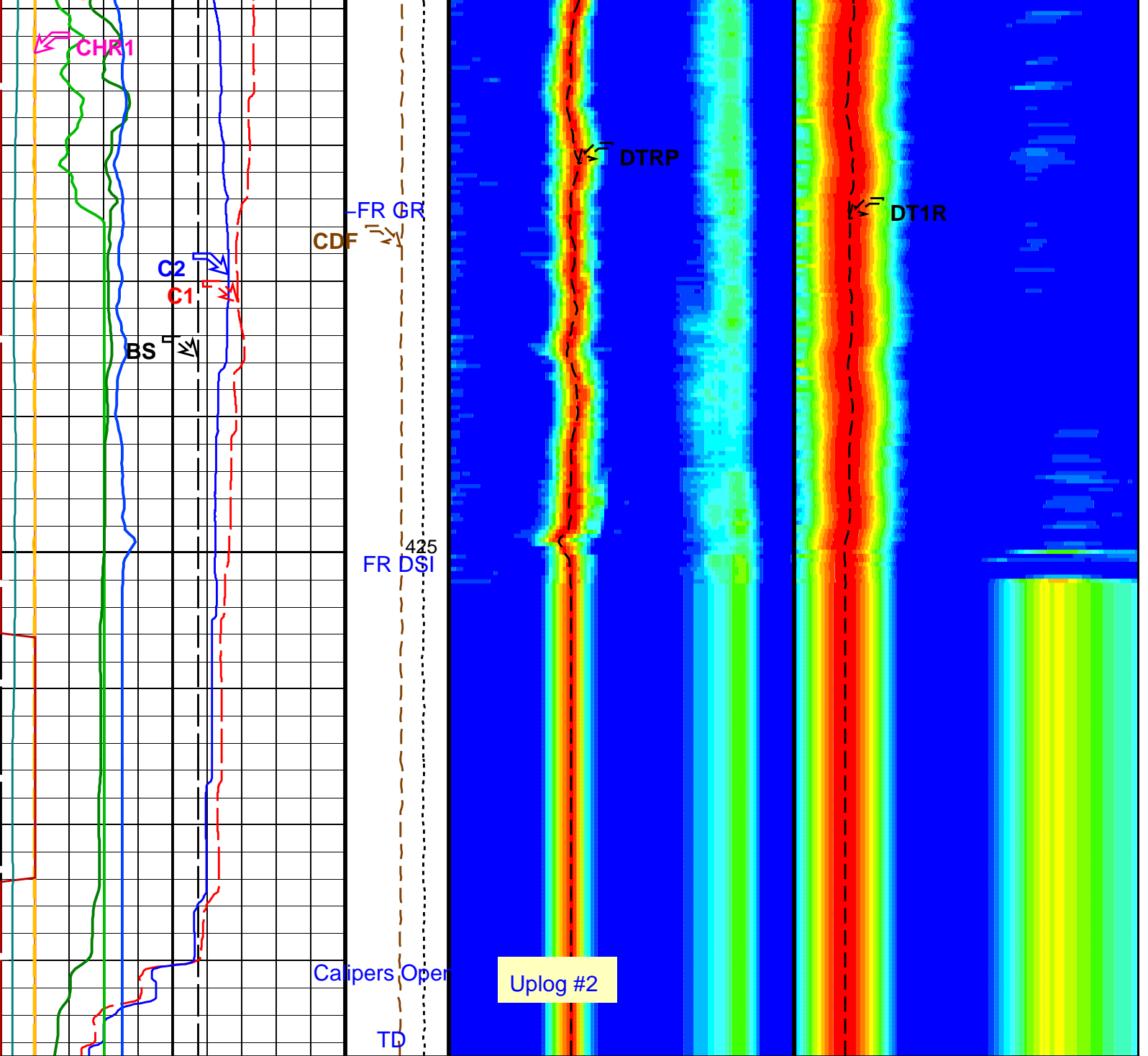












Uplog #2

Poisson's Ratio (PR)		
0	(-----)	0.5
Gamma Ray (GR_EDTC)		
0	(GAPI)	100
Sonic Velocity (SVEL)		
1000	(M/S)	6000
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)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner - B (Slim)		
AFMO	Accelerometry Computing Mode	MOVING_AVERAGE
ICMO	Inclinometry Computing Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	1.38126 DEG
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	70 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	190 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	1200 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	195 US/F
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR
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	C1
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	235	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	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	1200	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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00139658	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	0.968311	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.949126	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-158.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 19-Sep-2015 14:24

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	19C0–187

Input DLIS Files

DEFAULT FMS_DSI_NGS_025LUP FN:32 PRODUCER 15-Sep-2015 19:09 601.2 M 135.3 M

Output DLIS Files

DEFAULT FMS_DSI_NGS_043PUP FN:54 PRODUCER 19-Sep-2015 14:24

Company: International Ocean Discovery Program

Well: Expedition 356, Site U1463B

Input DLIS Files

DEFAULT FMS_DSI_NGS_025LUP FN:32 PRODUCER 15-Sep-2015 19:09 601.2 M 135.3 M

Output DLIS Files

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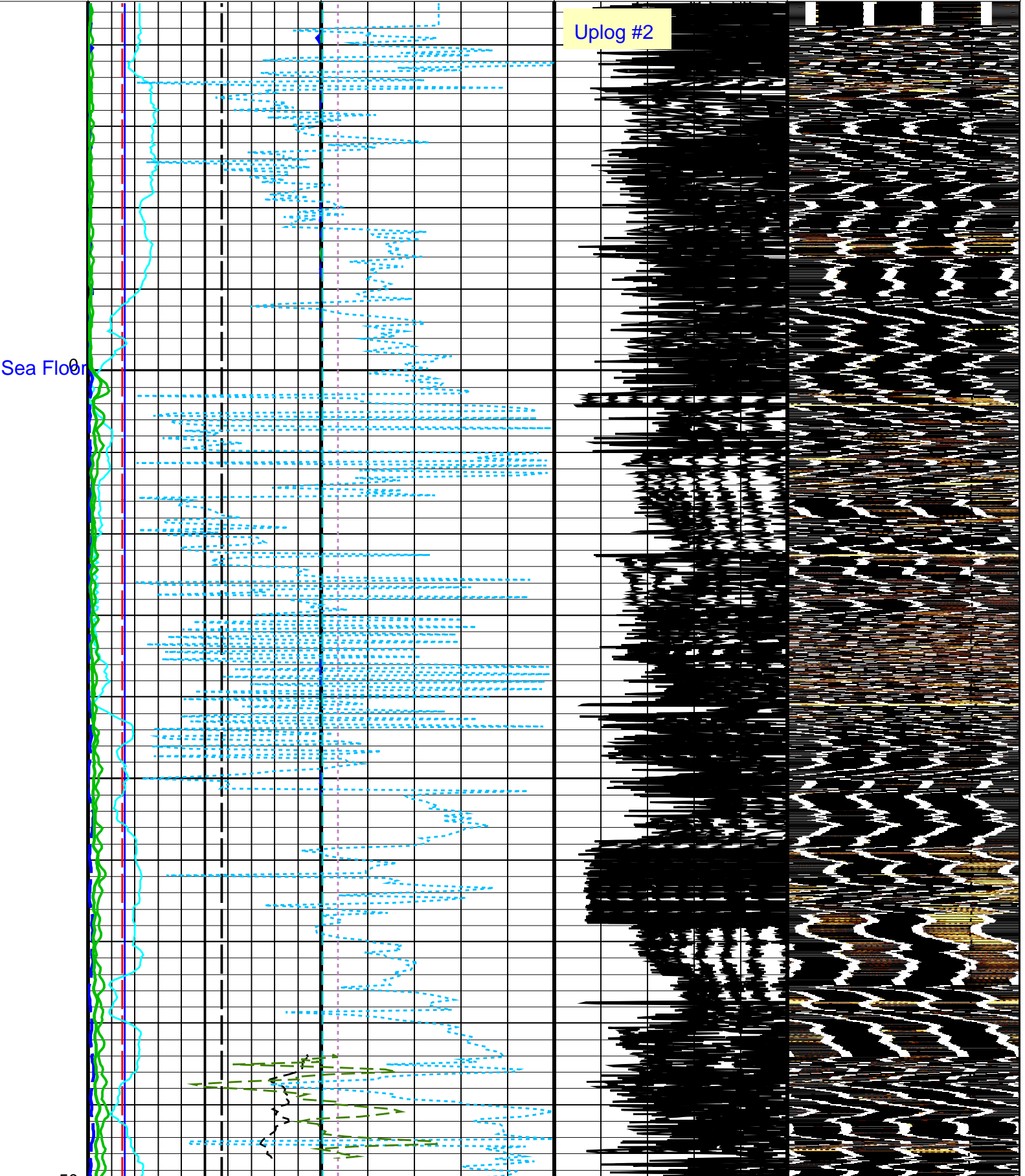
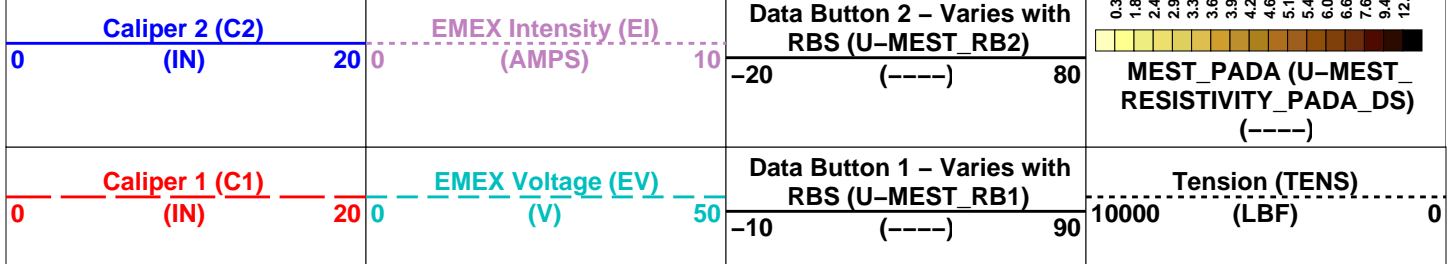
OP System Version: 19C0-187

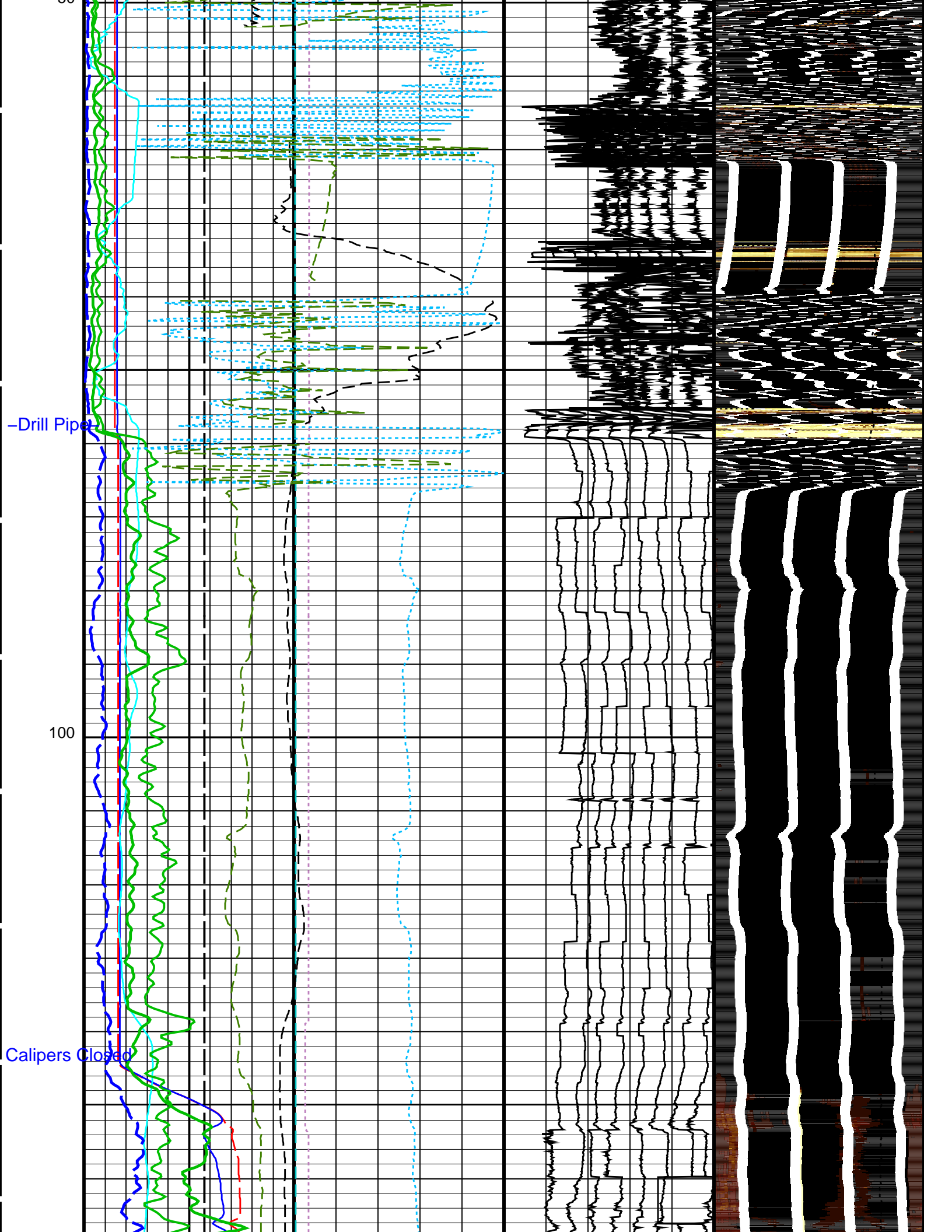
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DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

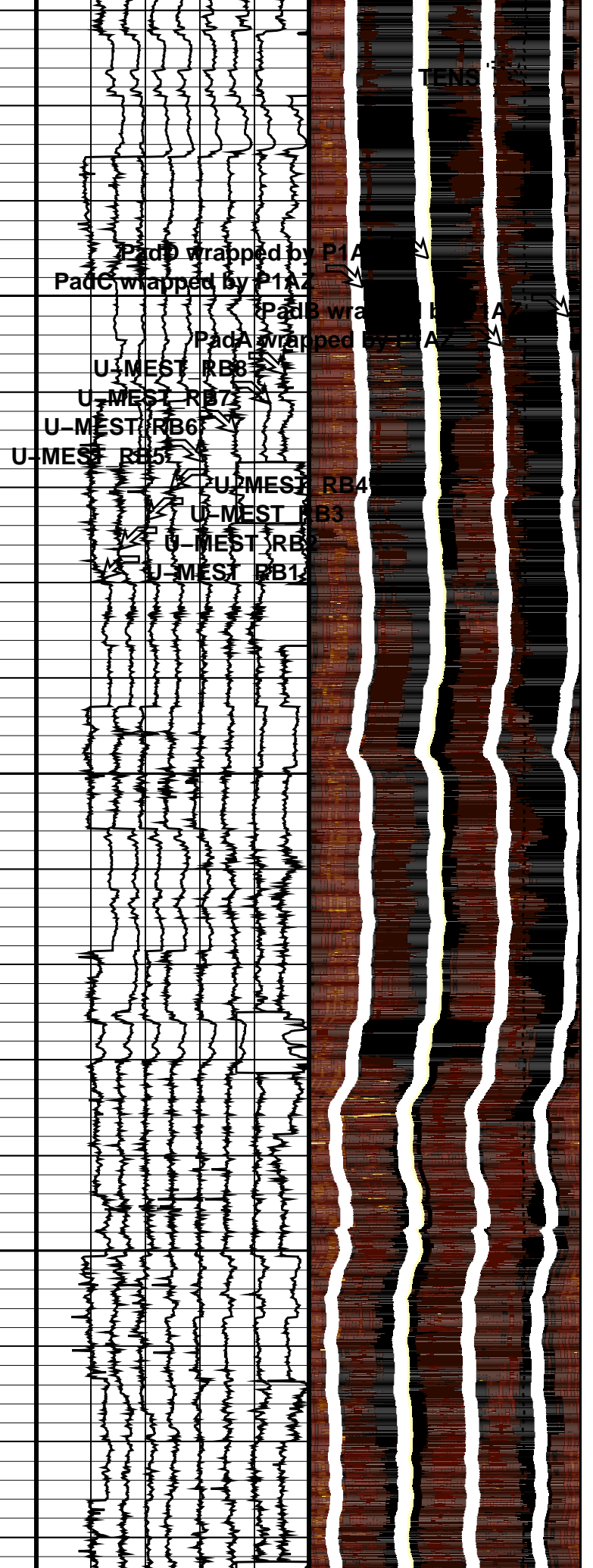
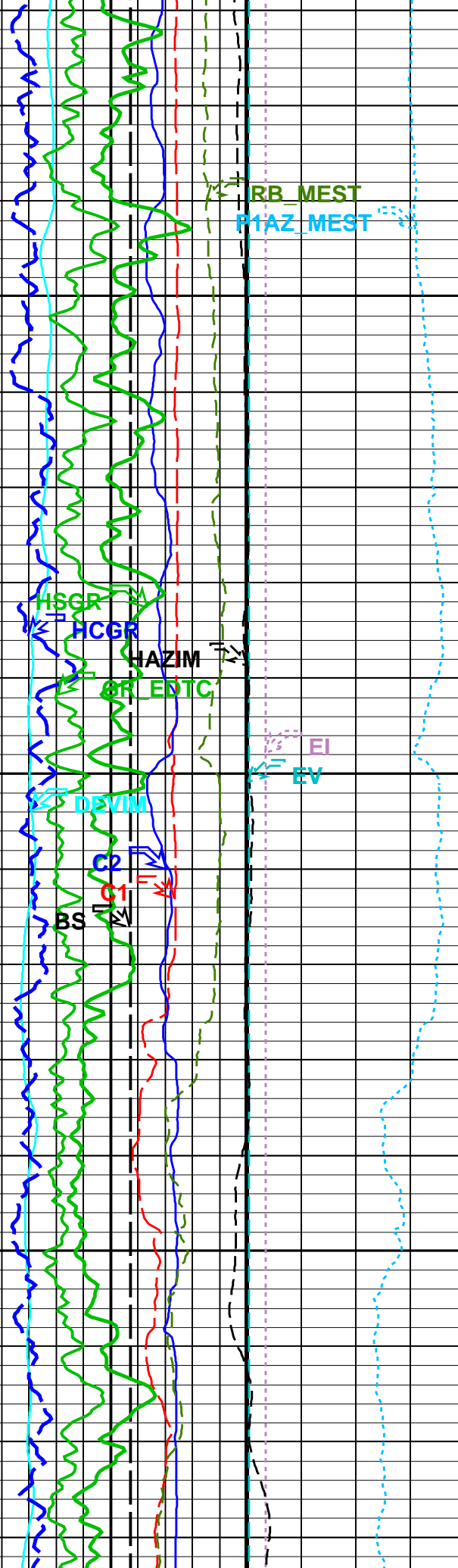
<p>HNGS Spectroscopy Gamma Ray (HSGR)</p> <p>0 (GAPI) 100</p> <hr/> <p>HNGS Computed Gamma Ray (HCGR)</p> <p>0 (GAPI) 100</p> <hr/> <p>Gamma Ray (GR_EDTC)</p> <p>0 (GAPI) 100</p> <hr/> <p>Bit Size (BS)</p> <p>0 (IN) 20</p>	<p>Data Button 8 - Varies with RBS (U-MEST_RB8)</p> <p>-80 (----) 20</p> <hr/> <p>Data Button 7 - Varies with RBS (U-MEST_RB7)</p> <p>-70 (----) 30</p> <hr/> <p>Data Button 6 - Varies with RBS (U-MEST_RB6)</p> <p>-60 (----) 40</p> <hr/> <p>Data Button 5 - Varies with RBS (U-MEST_RB5)</p> <p>-50 (----) 50</p> <hr/> <p>Data Button 4 - Varies with RBS (U-MEST_RB4)</p> <p>-40 (----) 60</p> <hr/> <p>Data Button 3 - Varies with RBS (U-MEST_RB3)</p> <p>-30 (----) 70</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)</p> <p>(----)</p> <hr/> <p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS)</p> <p>(----)</p> <hr/> <p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS)</p> <p>(----)</p>
<p>Relative Bearing (RB_MEST)</p> <p>-40 (DEG) 360</p>	<p>Data Button 8 - Varies with RBS (U-MEST_RB8)</p> <p>-80 (----) 20</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)</p> <p>(----)</p>
<p>Pad One Azimuth (P1AZ_MEST)</p> <p>-40 (DEG) 360</p>	<p>Data Button 5 - Varies with RBS (U-MEST_RB5)</p> <p>-50 (----) 50</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)</p> <p>(----)</p>
<p>Hole Azimuth (HAZIM)</p> <p>-40 (DEG) 360</p>	<p>Data Button 4 - Varies with RBS (U-MEST_RB4)</p> <p>-40 (----) 60</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADC (U-MEST_RESISTIVITY_PADC_DS)</p> <p>(----)</p>
<p>Deviation (DEVIM)</p> <p>0 (DEG) 10</p>	<p>Data Button 3 - Varies with RBS (U-MEST_RB3)</p> <p>-30 (----) 70</p>	<p>0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086</p> <p>MEST_PADB (U-MEST_RESISTIVITY_PADB_DS)</p> <p>(----)</p>





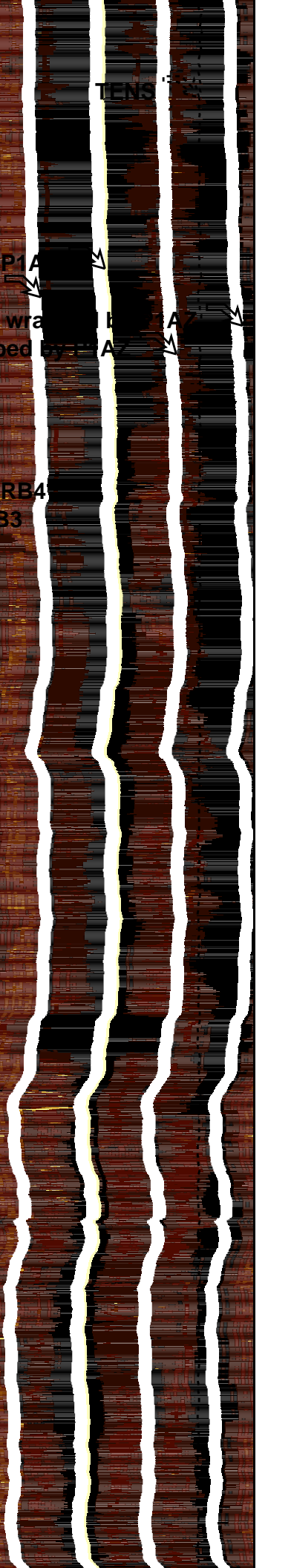
150

200



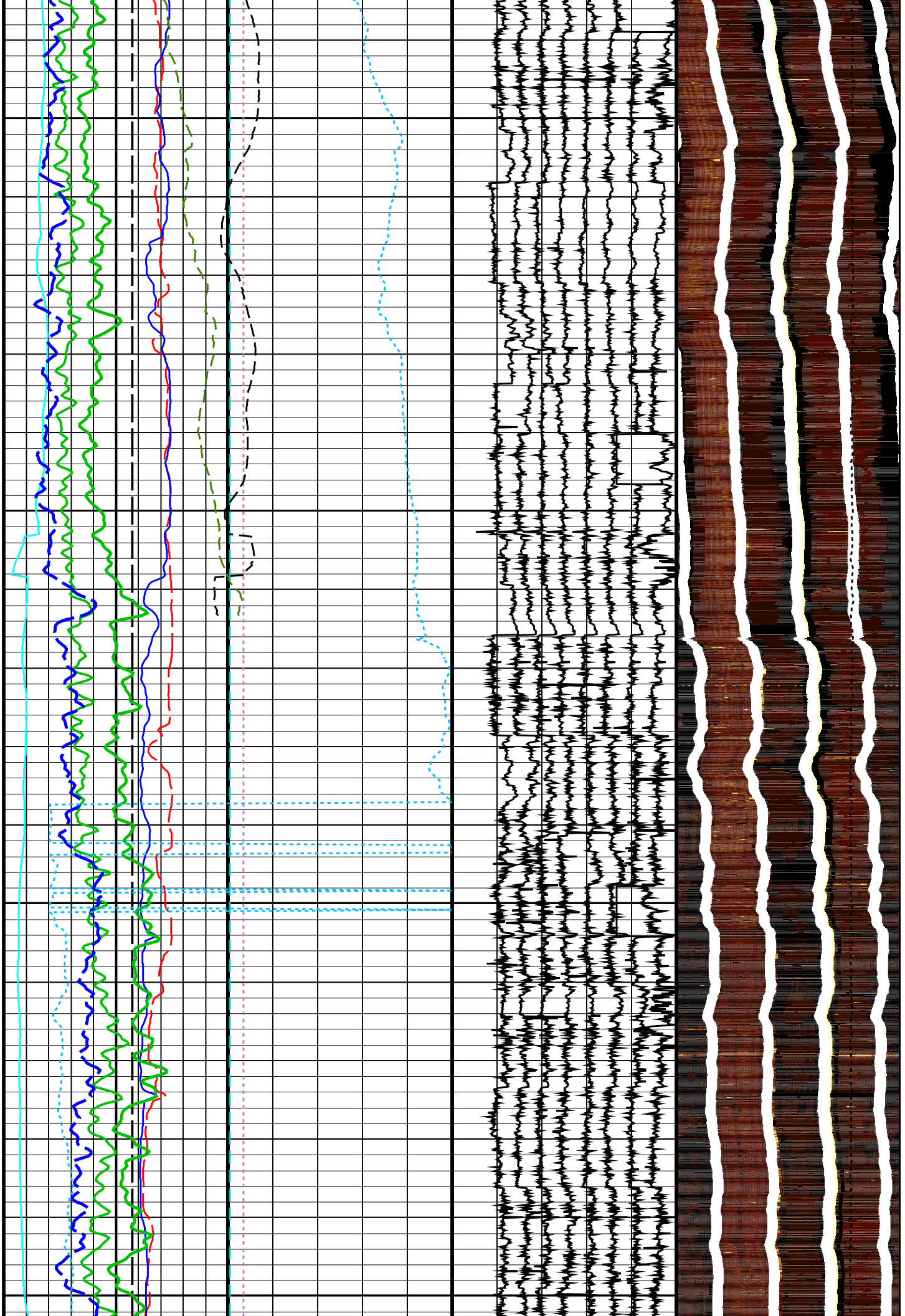
PadD wrapped by P1A
PadC wrapped by P1A
PadB wrapped by P1A
PadA wrapped by P1A

TENS

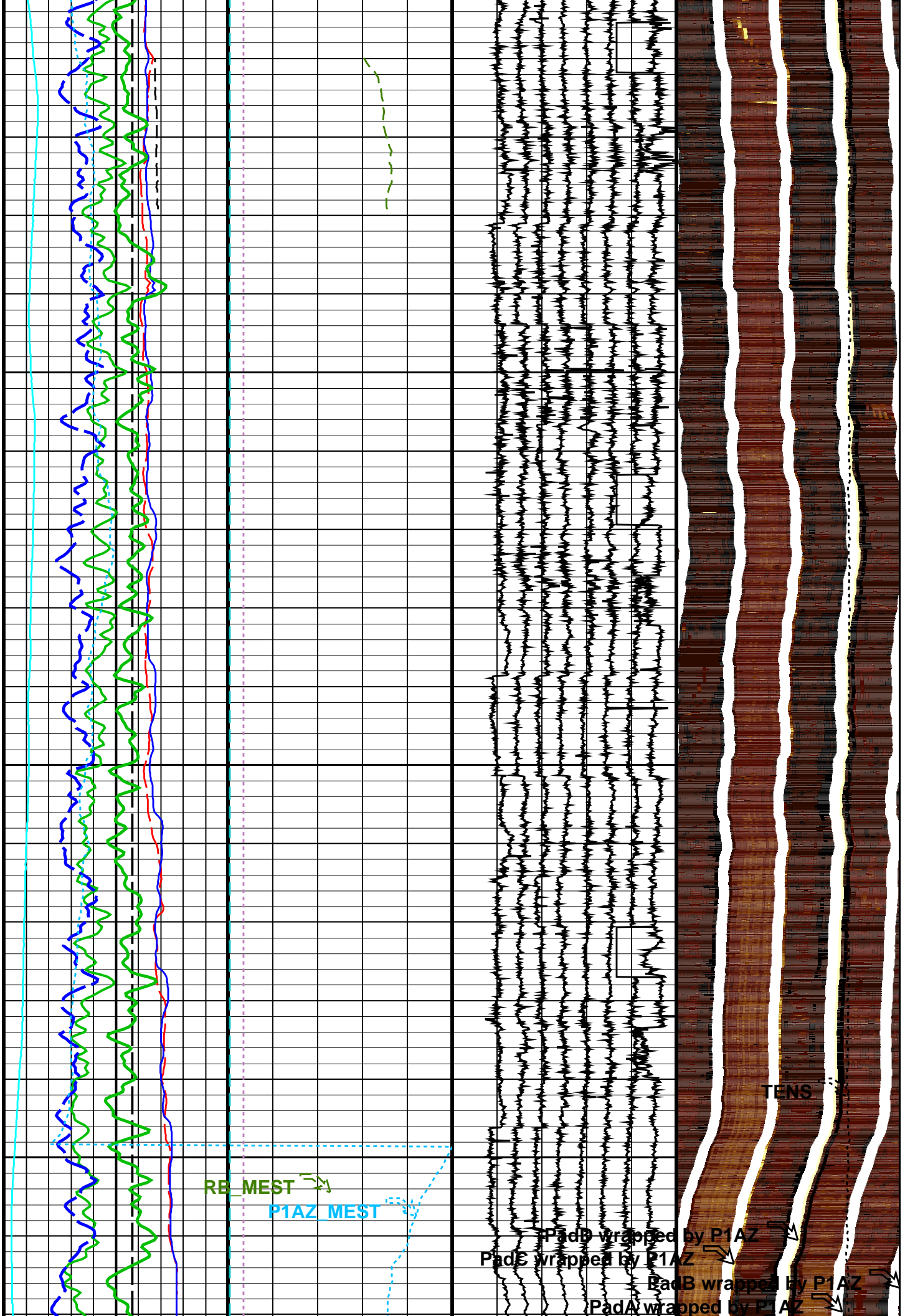


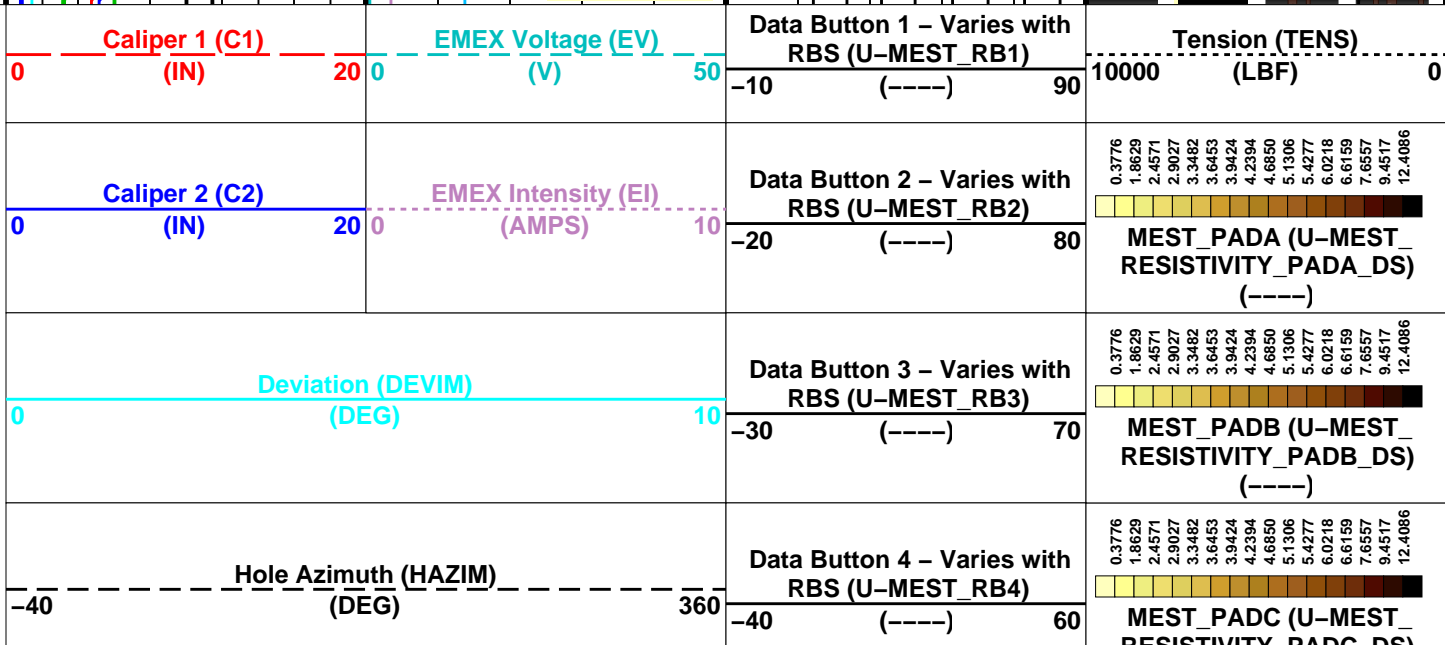
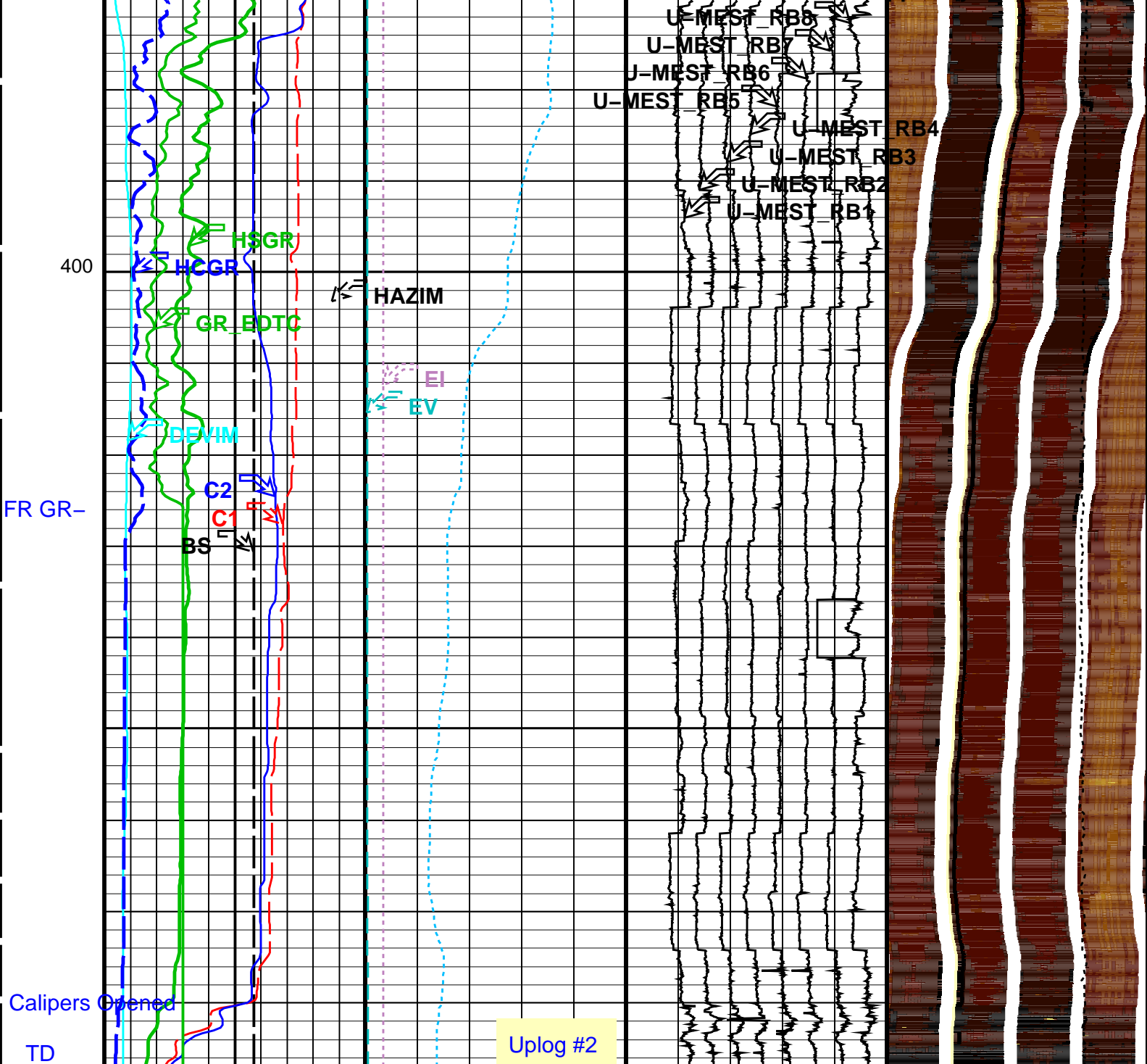
250


300



350





				RESISTIVITY_PADD_DS)	
				(----)	
Pad One Azimuth (P1AZ_MEST) -40 (DEG) 360		Data Button 5 – Varies with RBS (U-MEST_RB5)			
		-50 (----) 50		MEST_PADD (U-MEST_RESISTIVITY_PADD_DS)	
				(----)	
Relative Bearing (RB_MEST) -40 (DEG) 360		Data Button 6 – Varies with RBS (U-MEST_RB6)			
		-60 (----) 40			
Bit Size (BS) 0 (IN) 20		Data Button 7 – Varies with RBS (U-MEST_RB7)			
		-70 (----) 30			
Gamma Ray (GR_EDTC) 0 (GAPI) 100		Data Button 8 – Varies with RBS (U-MEST_RB8)			
		-80 (----) 20			
HNGS Computed Gamma Ray (HCGR) 0 (GAPI) 100					
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner – B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	1.38126	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00139658	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	0.968311	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.949126	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-158.0	M
PP	Playback Processing	RECOMPUTE	

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_025LUP	FN:32	PRODUCER	15-Sep-2015 19:09	601.2 M	135.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_043PUP	FN:54	PRODUCER	19-Sep-2015 14:24		
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Company: International Ocean Discovery Program

Well: Expedition 356, Site U1463B

Input DLIS Files

DEFAULT	FMS_DSI_NGS_024LUP	FN:30	PRODUCER	15-Sep-2015 18:10	601.2 M	284.4 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_042PUP	FN:53	PRODUCER	19-Sep-2015 13:35	443.5 M	126.5 M
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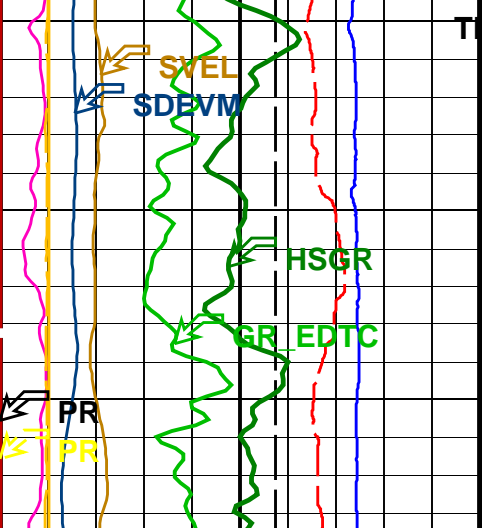
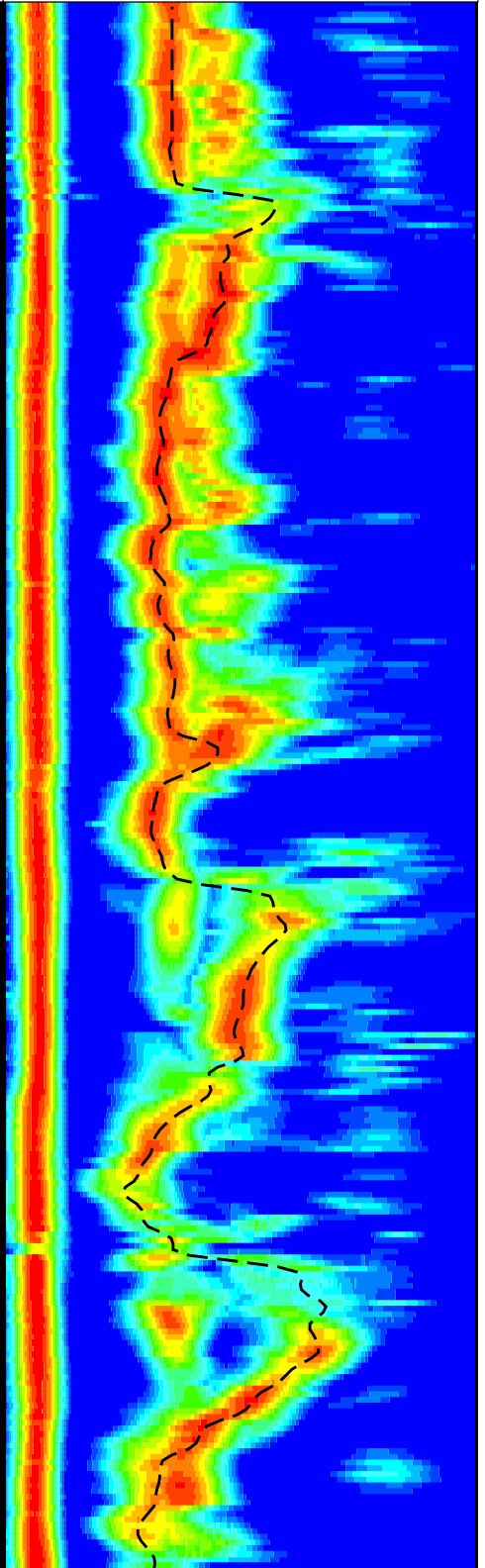
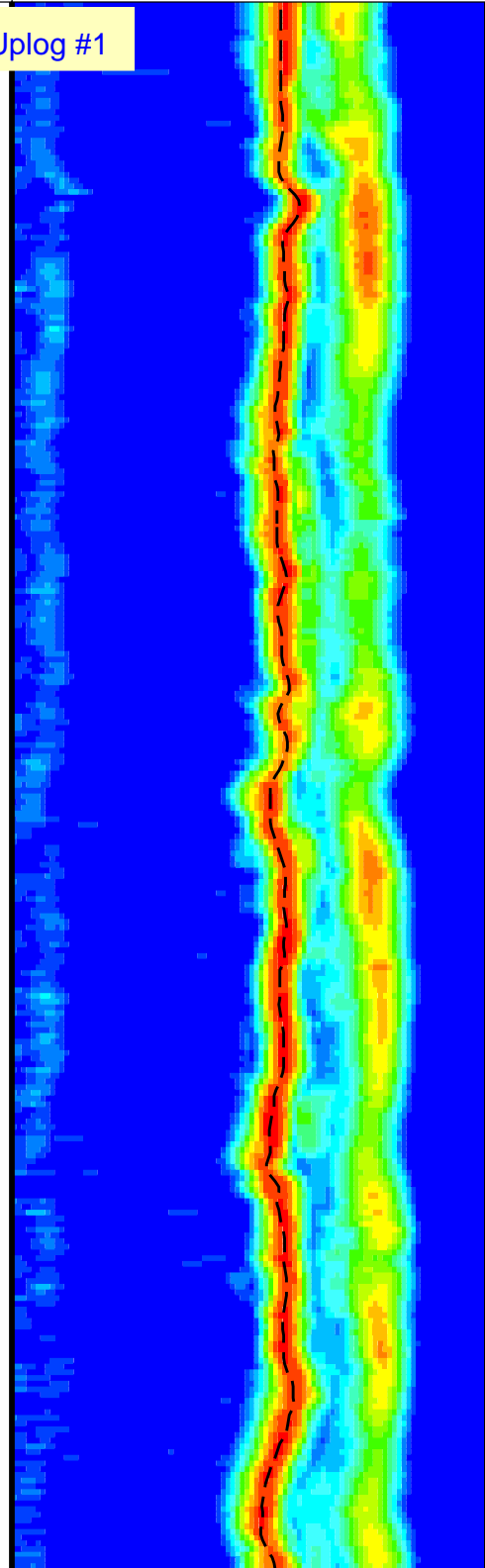
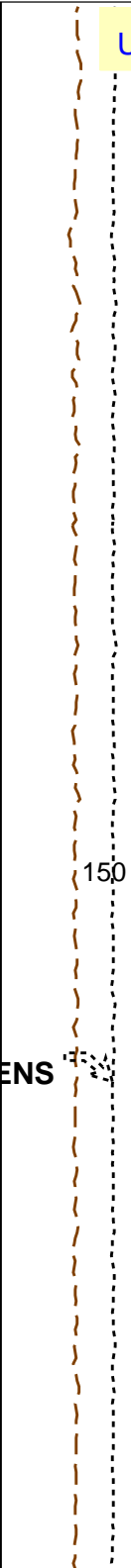
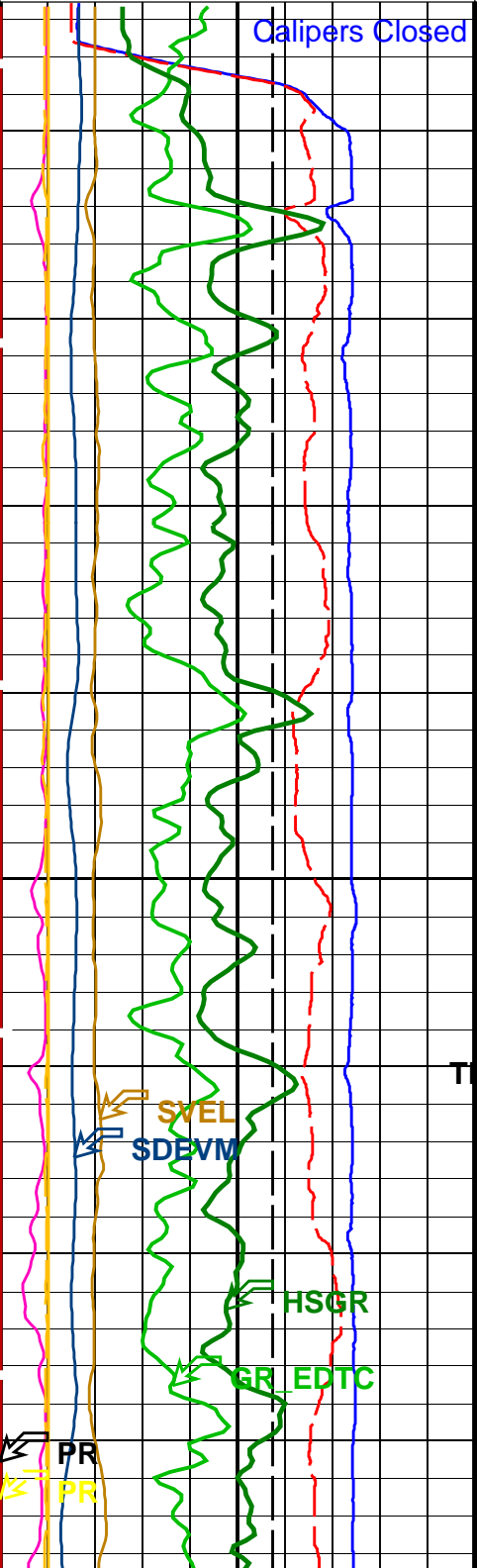
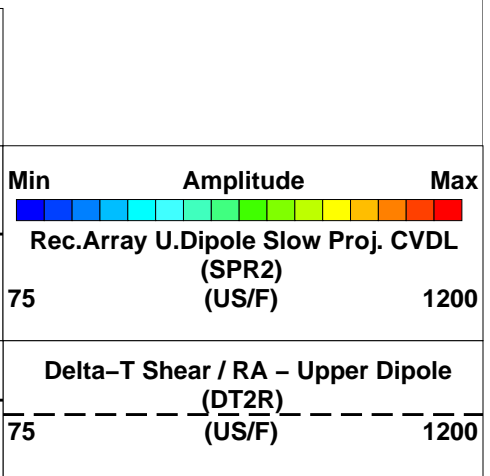
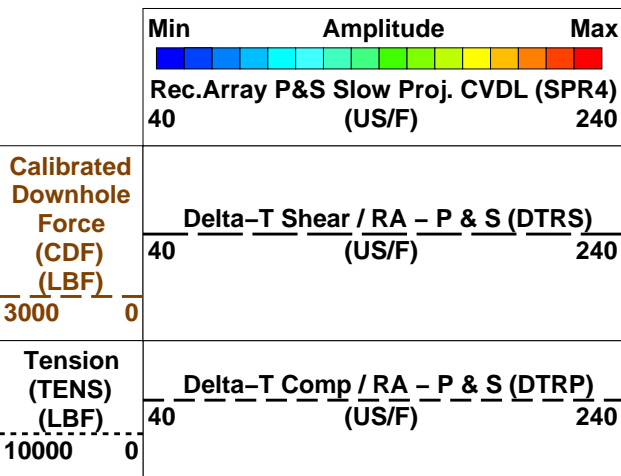
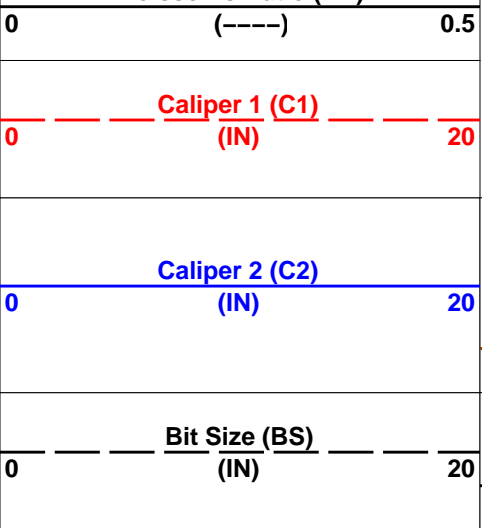
OP System Version: 19C0-187

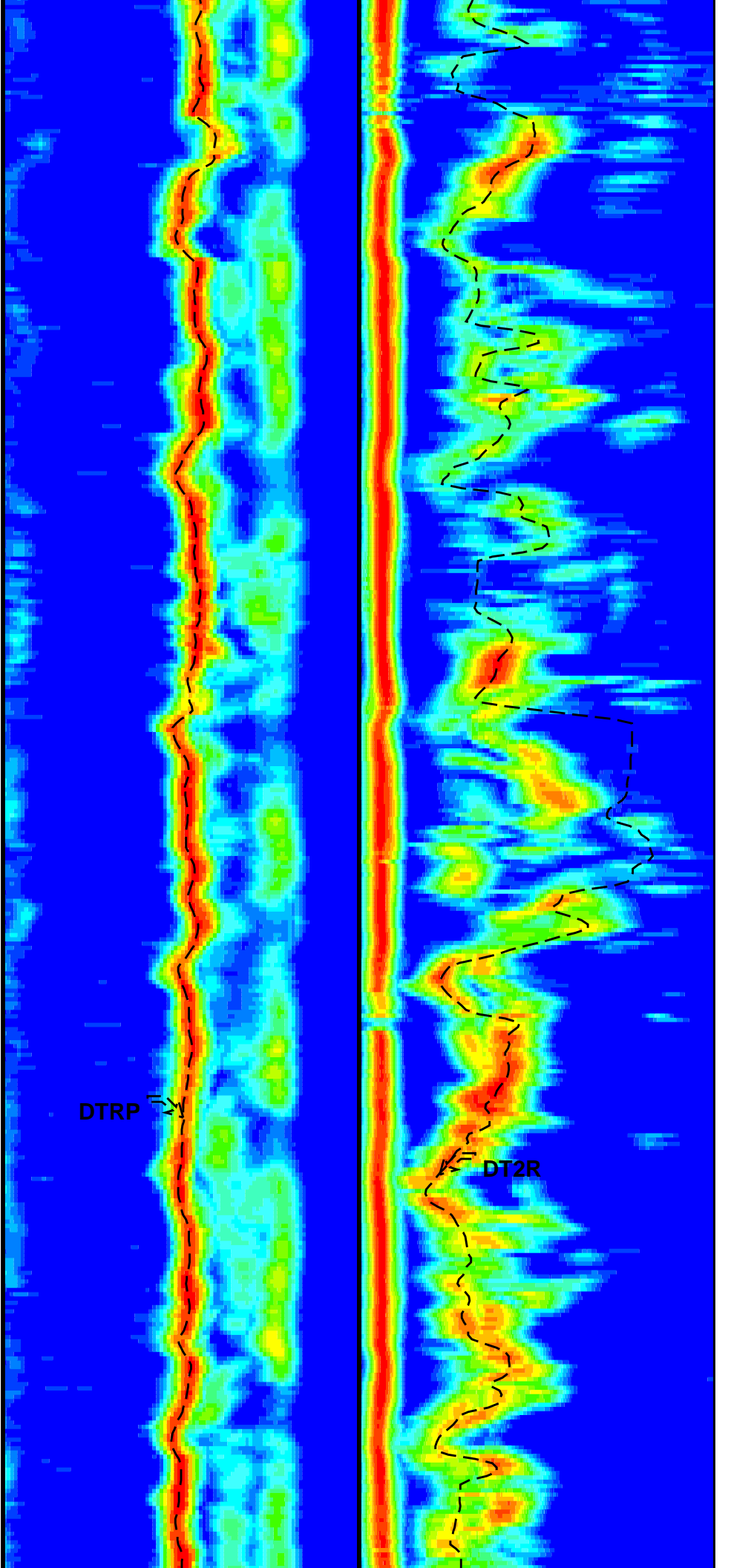
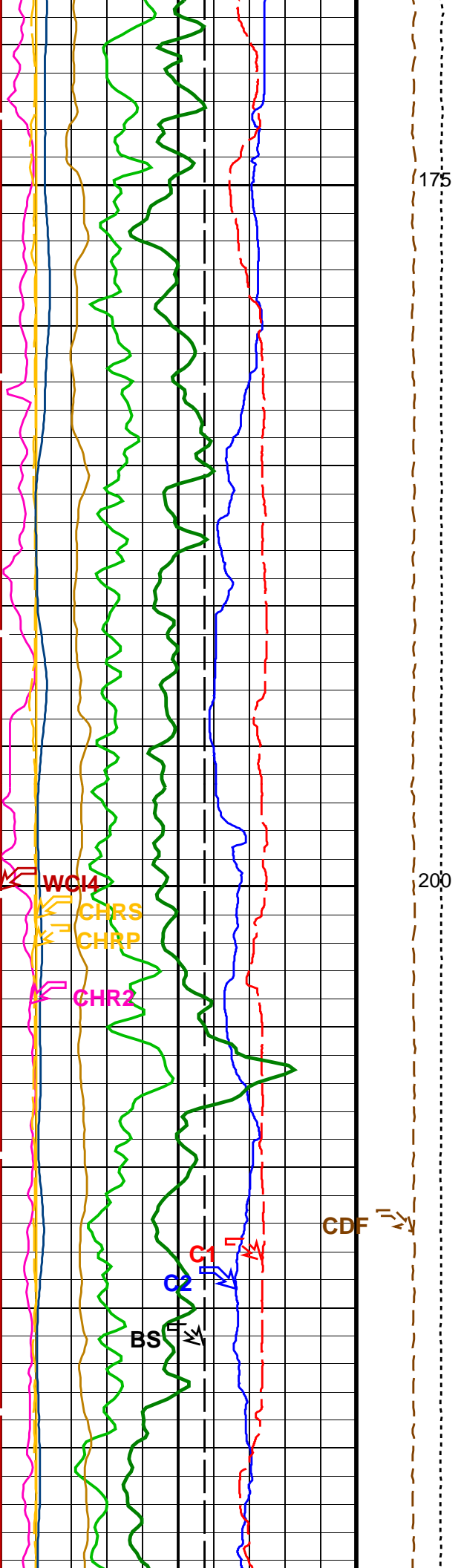
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DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

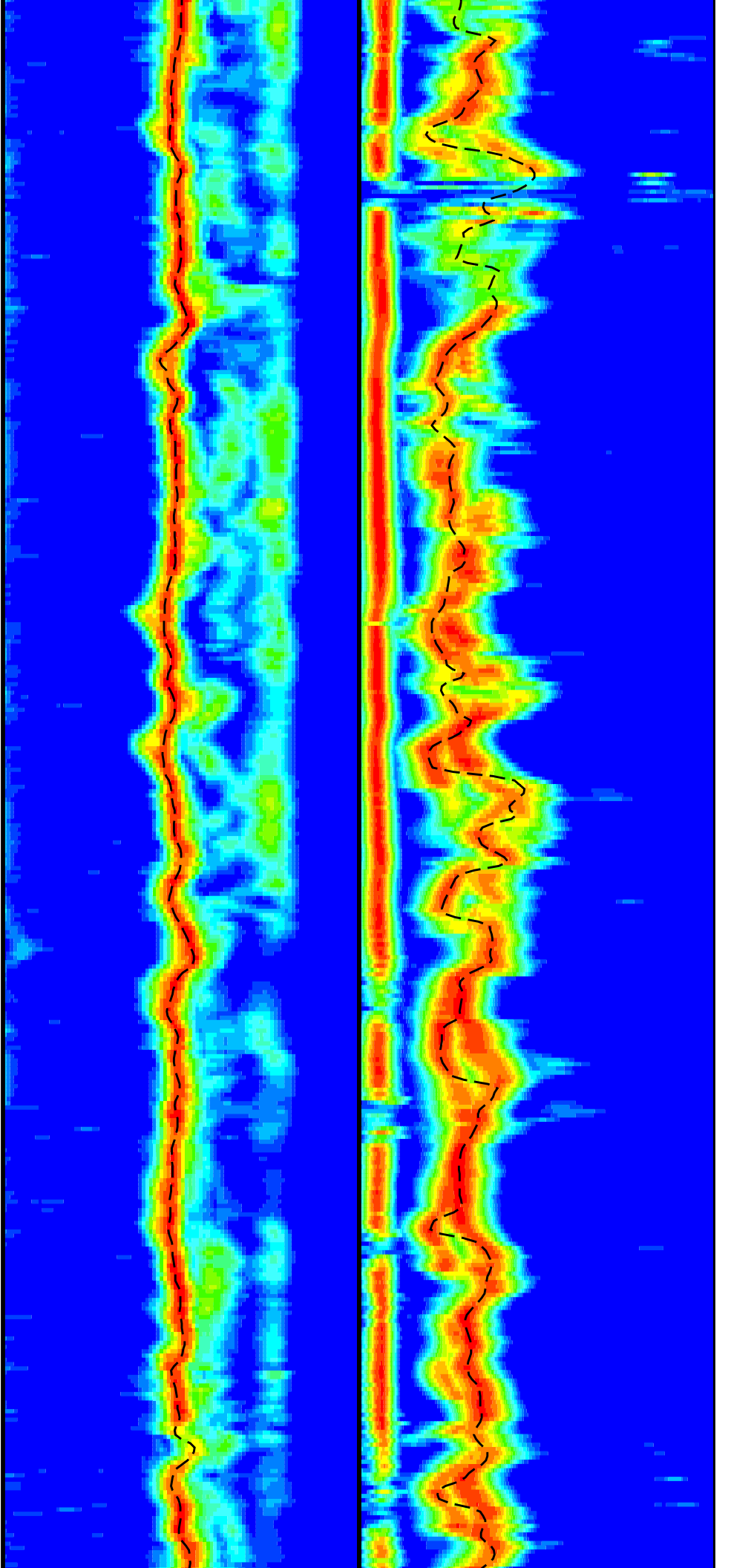
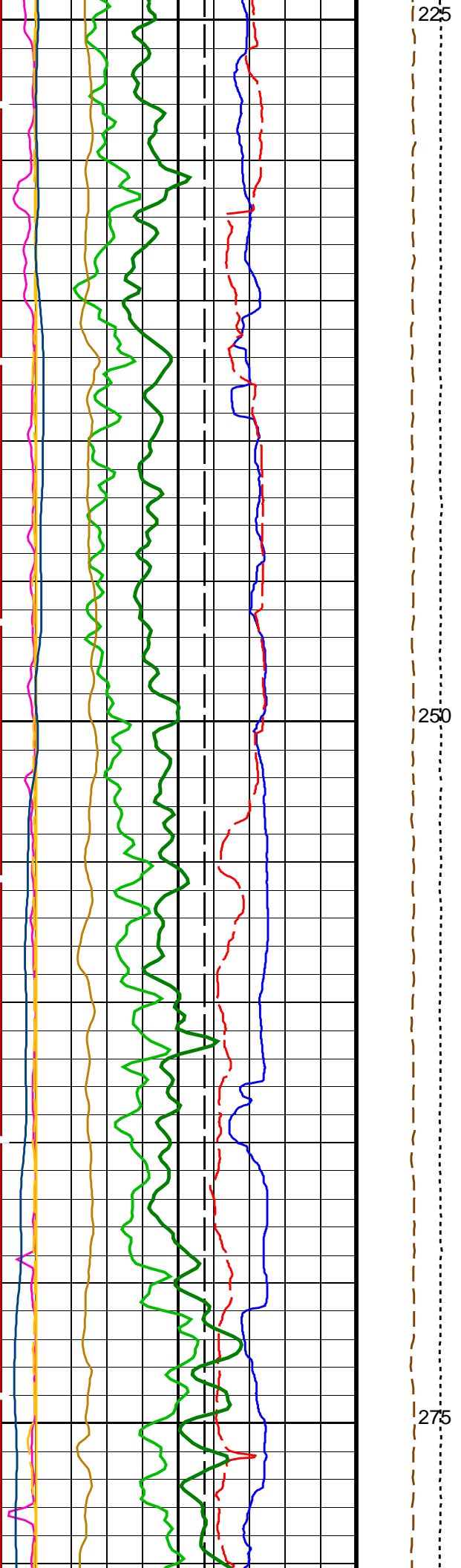
PIP SUMMARY

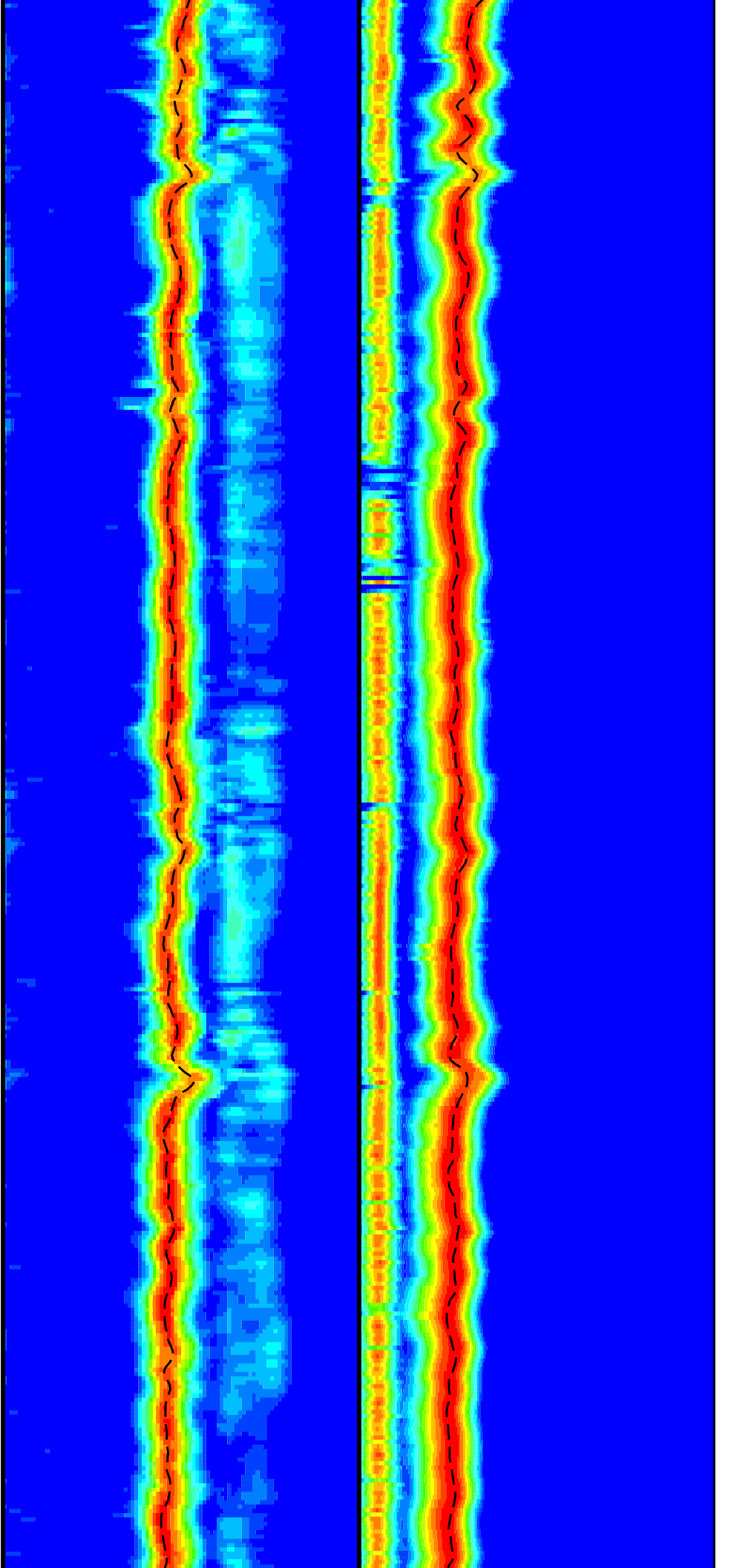
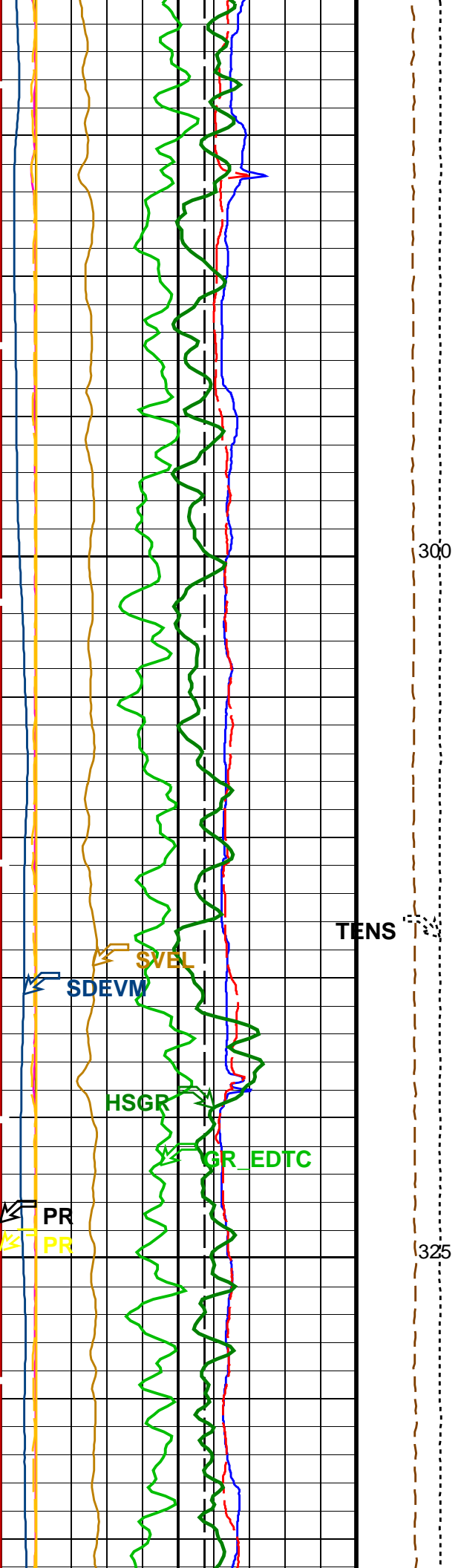
 Time Mark Every 60 S

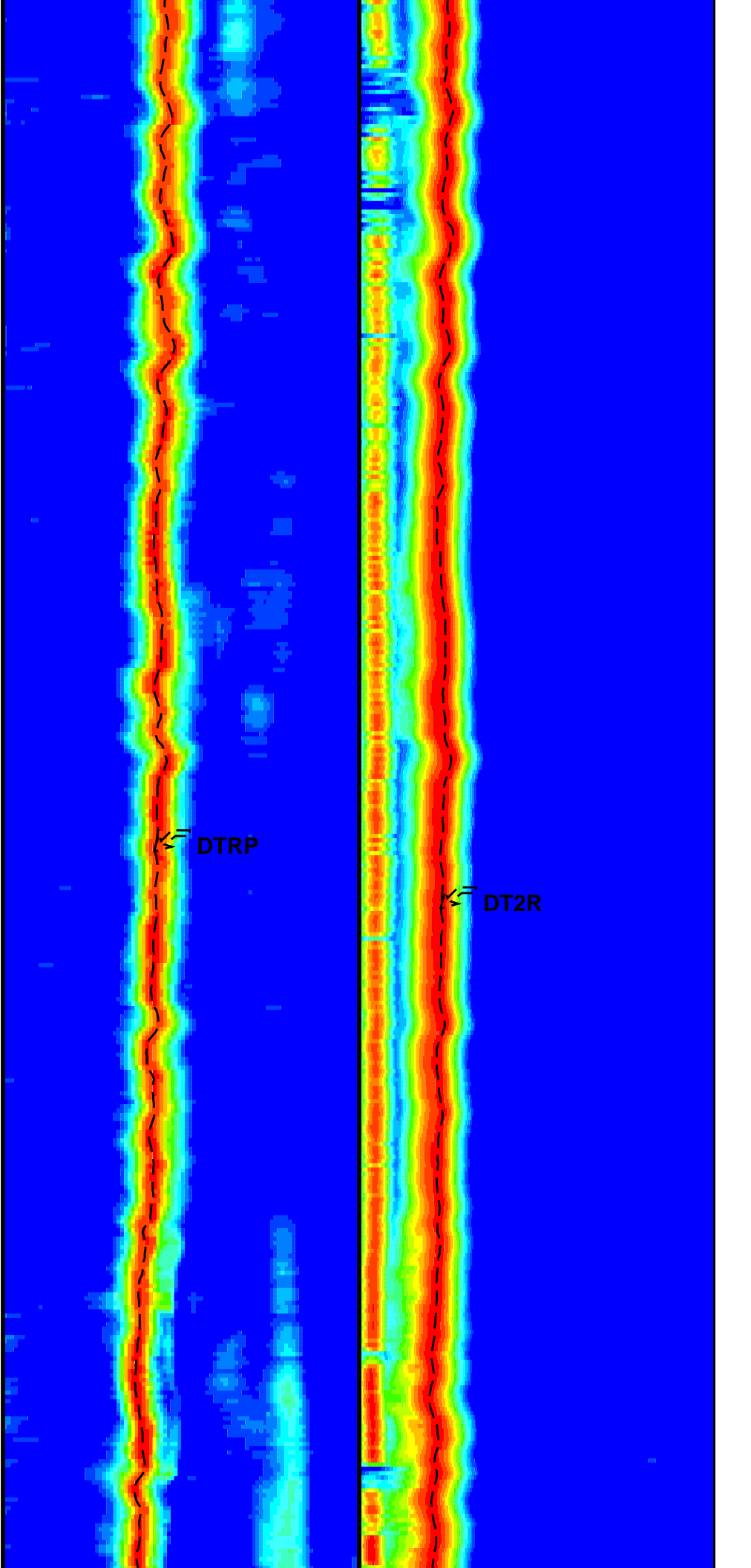
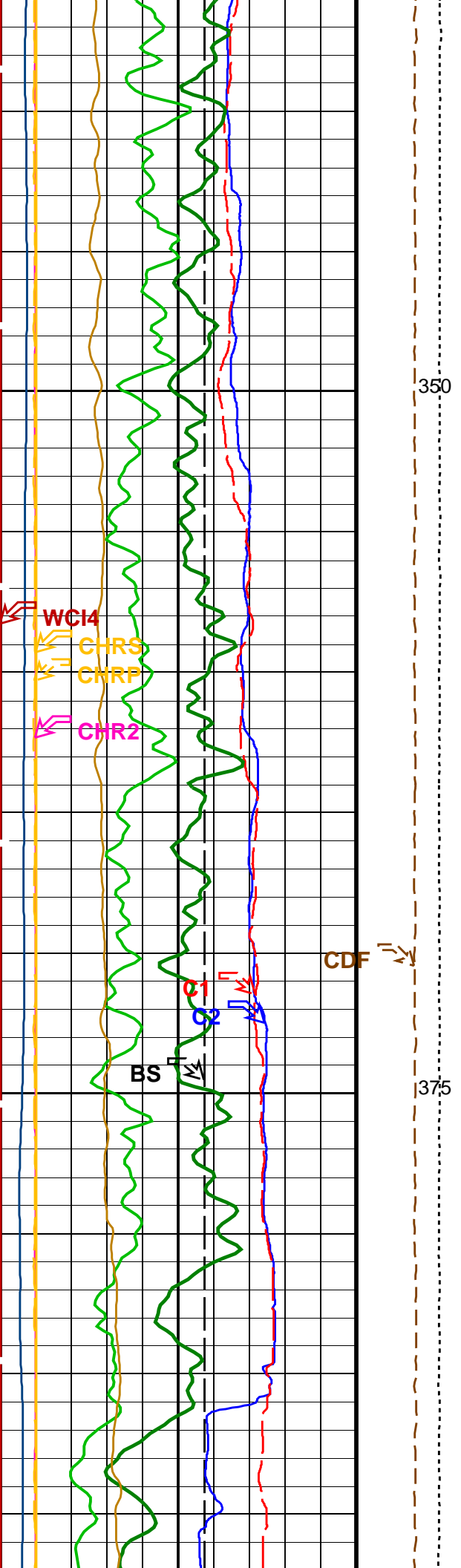
HNGS Spectroscopy Gamma Ray (HSGR)		
0 (GAPI)		100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0 (----)		10
Peak Coherence / RA - P & S Shear (CHRS)		
-1 (----)		9
Peak Coherence / RA - P & S Comp (CHRP)		
0 (----)		10
Peak Coherence / RA - Upper Dipole (CHR2)		
0 (----)		10
Gamma Ray (GR_EDTC)		
0 (GAPI)		100
Poisson's Ratio (PR)		
0 (----)		0.5
Sonic Velocity (SVEL)		
1000 (M/S)		6000
Sonde Deviation (SDEVM)		
0 (DEG)		10
Poisson's Ratio (PR)		

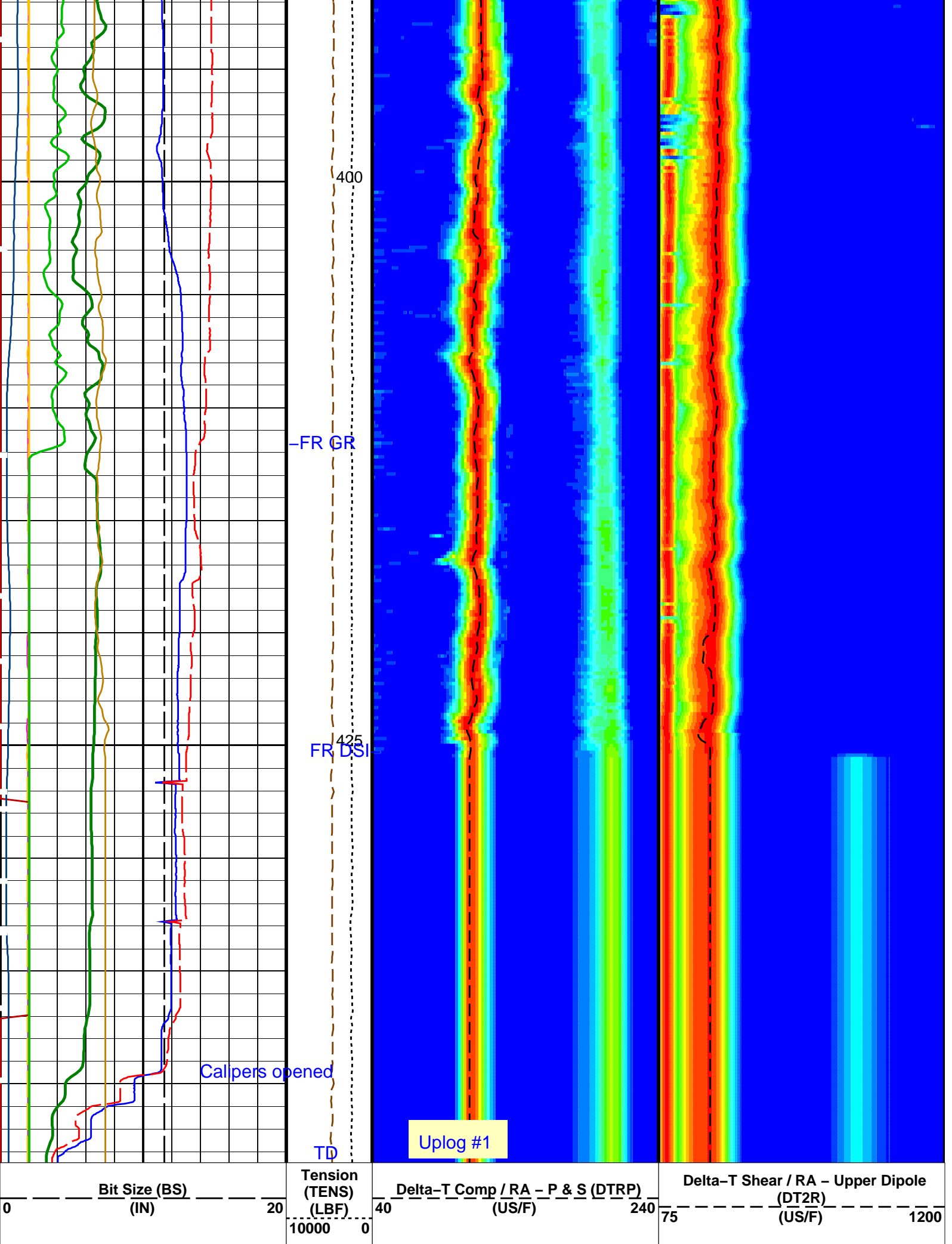



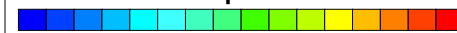










Caliper 2 (C2) 0 (IN) 20	Downhole Force (CDF) (LBF) 3000 0 Delta-T Shear / RA - P & S (DTRS) 40 (US/F) 240 Min Amplitude Max  Rec.Array U.Dipole Slow Proj. CVDL (SPR2) 75 (US/F) 1200 Min Amplitude Max  Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240
Caliper 1 (C1) 0 (IN) 20	
Poisson's Ratio (PR) 0 (----) 0.5	
Sonde Deviation (SDEVM) 0 (DEG) 10	
Sonic Velocity (SVEL) 1000 (M/S) 6000	
Poisson's Ratio (PR) 0 (----) 0.5	
Gamma Ray (GR_EDTC) 0 (GAPI) 100	
Peak Coherence / RA - Upper Dipole (CHR2) 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) 100	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner - B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	1.38126 DEG
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	70 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	1200 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	195 US/F
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR
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	C1	
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	B1–3K	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	235	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	1200	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	20200	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	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00133386	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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
SCBC	HNGS Standard Gamma Ray Correction Flag	YES	

SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.968124	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.948642	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-158.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 19-Sep-2015 13:35

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_024LUP	FN:30	PRODUCER	15-Sep-2015 18:10	601.2 M	284.4 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_042PUP	FN:53	PRODUCER	19-Sep-2015 13:35		
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Company: International Ocean Discovery Program Well: Expedition 356, Site U1463B

Input DLIS Files

DEFAULT	FMS_DSI_NGS_024LUP	FN:30	PRODUCER	15-Sep-2015 18:10	601.2 M	284.4 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_042PUP	FN:53	PRODUCER	19-Sep-2015 13:35	443.5 M	126.5 M
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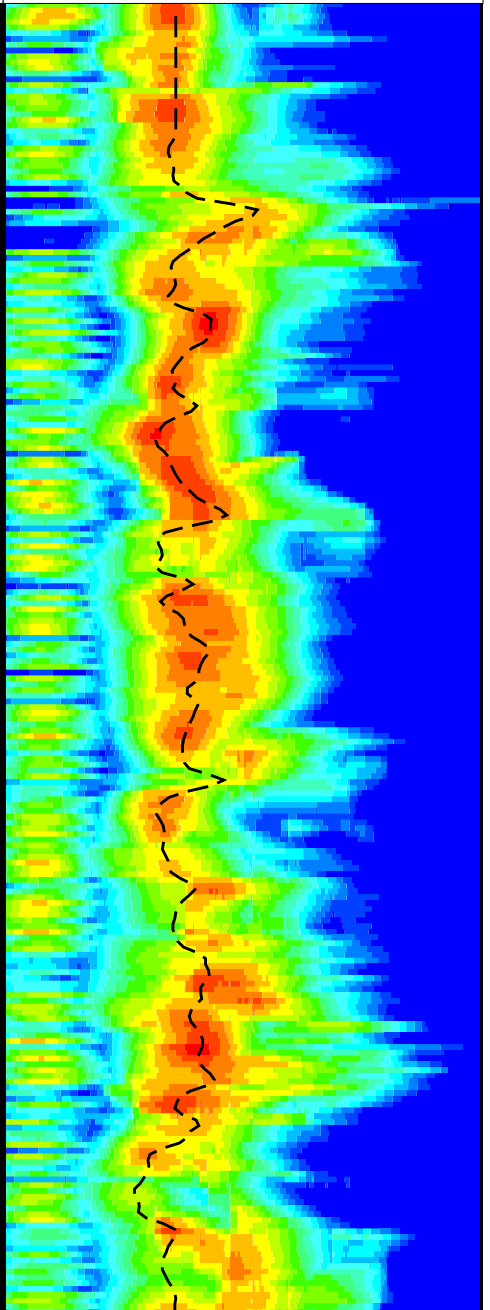
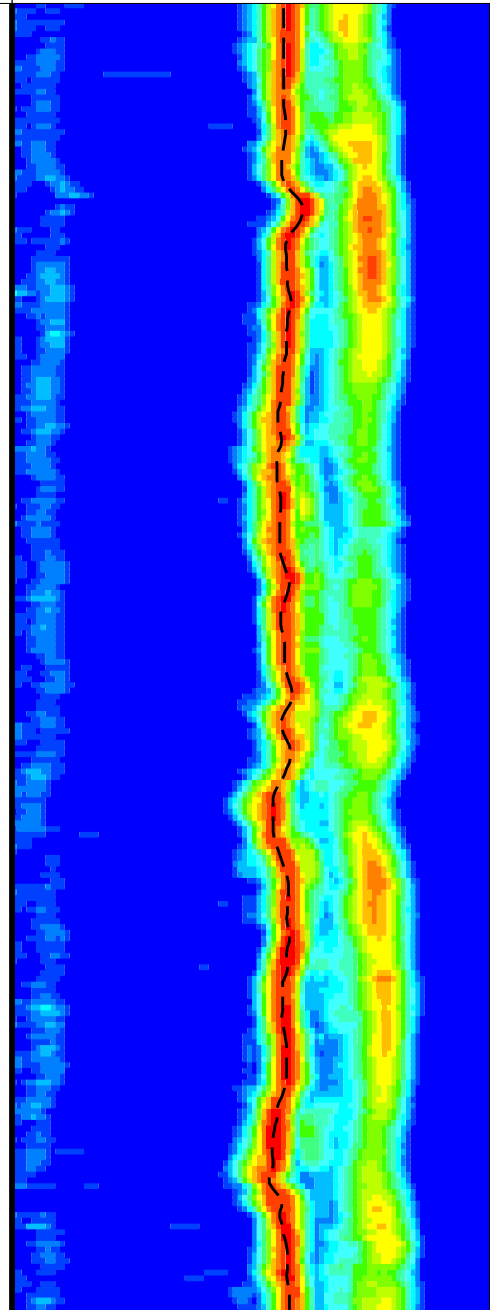
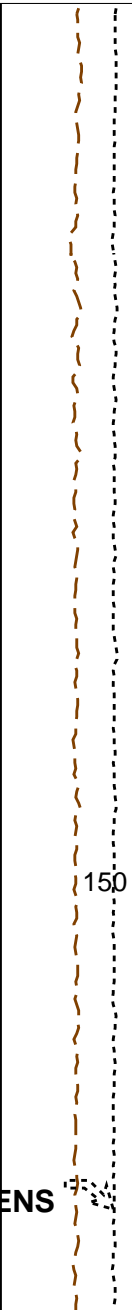
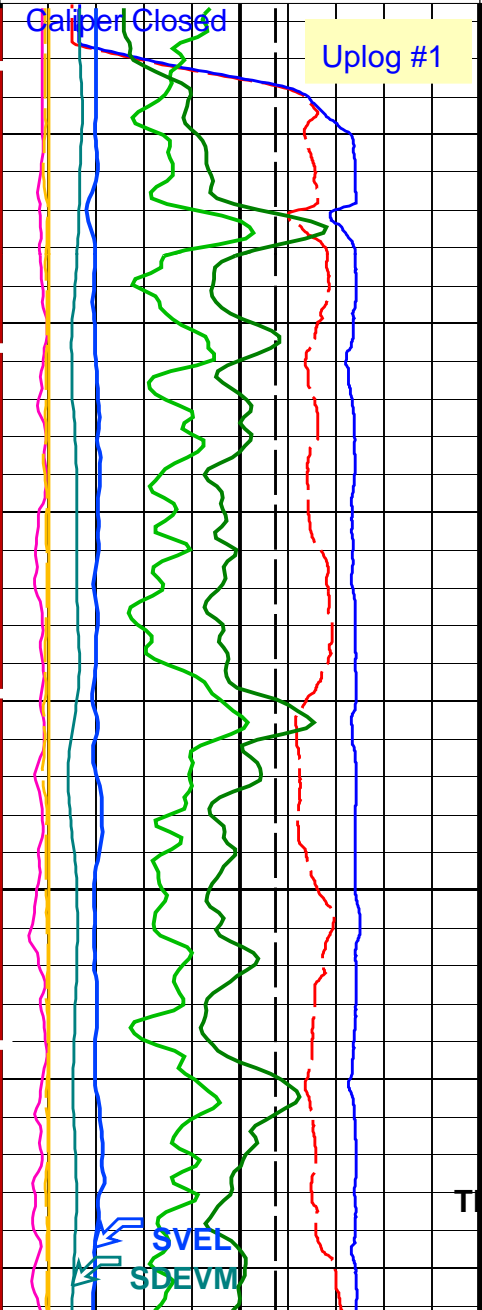
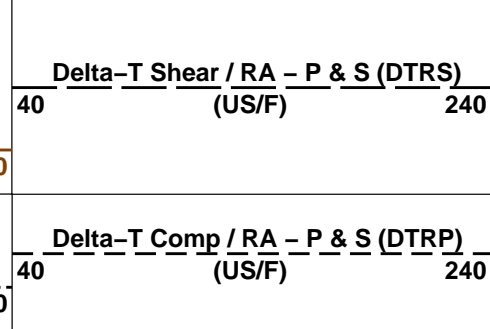
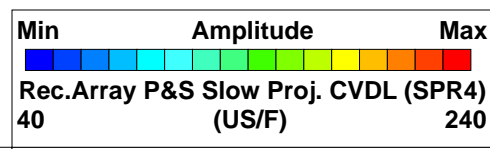
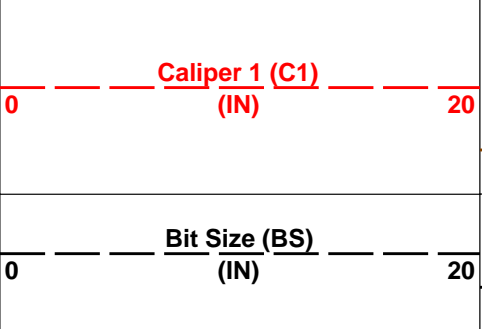
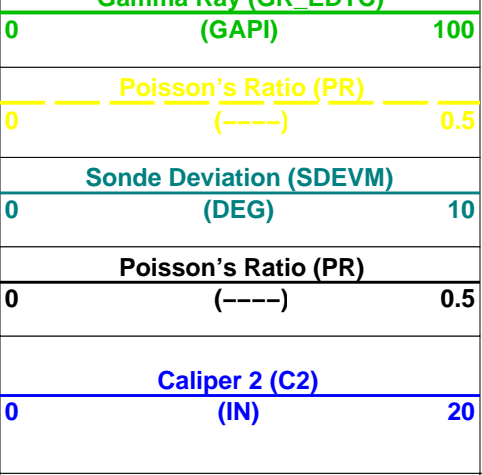
OP System Version: 19C0-187

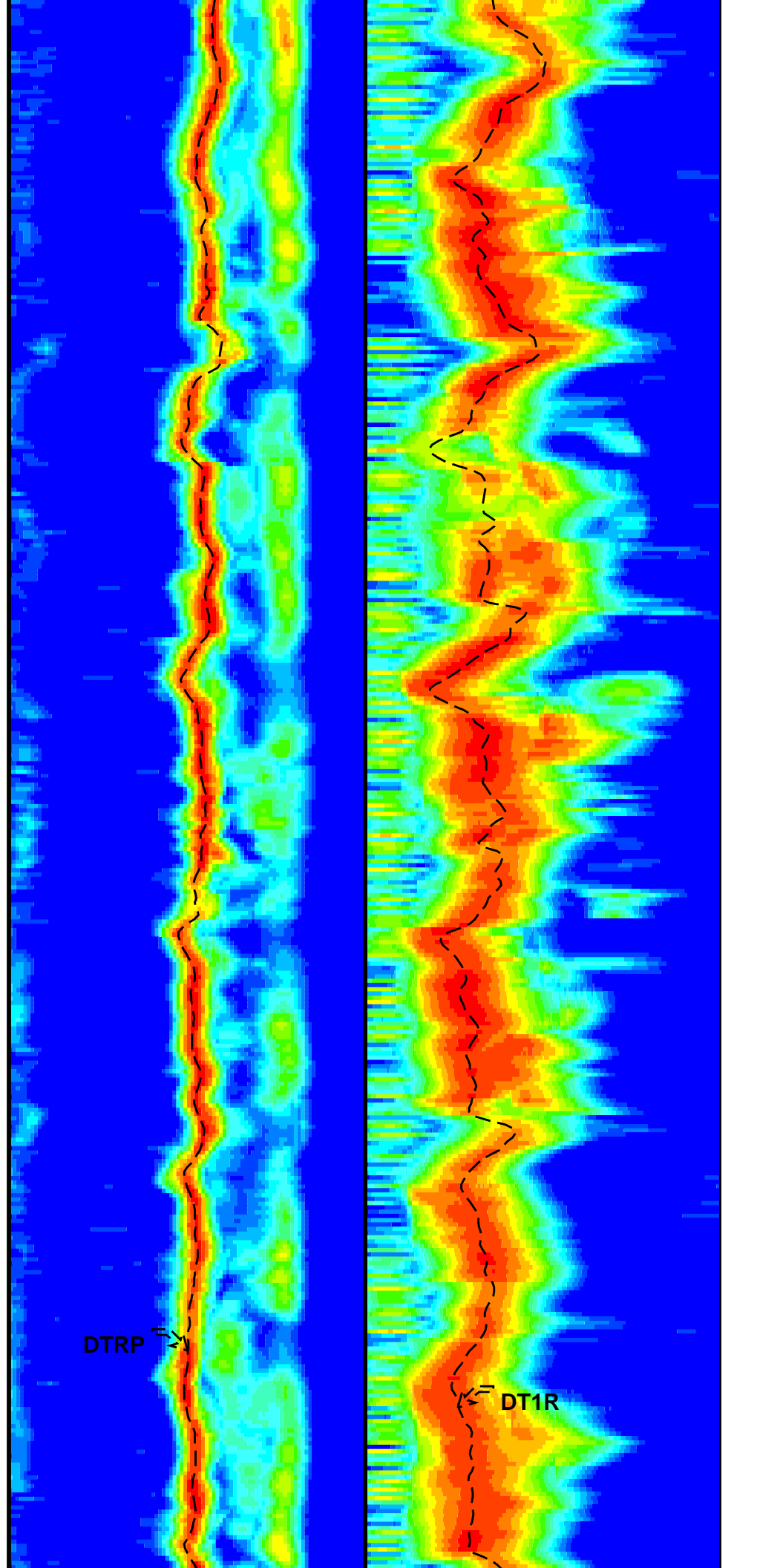
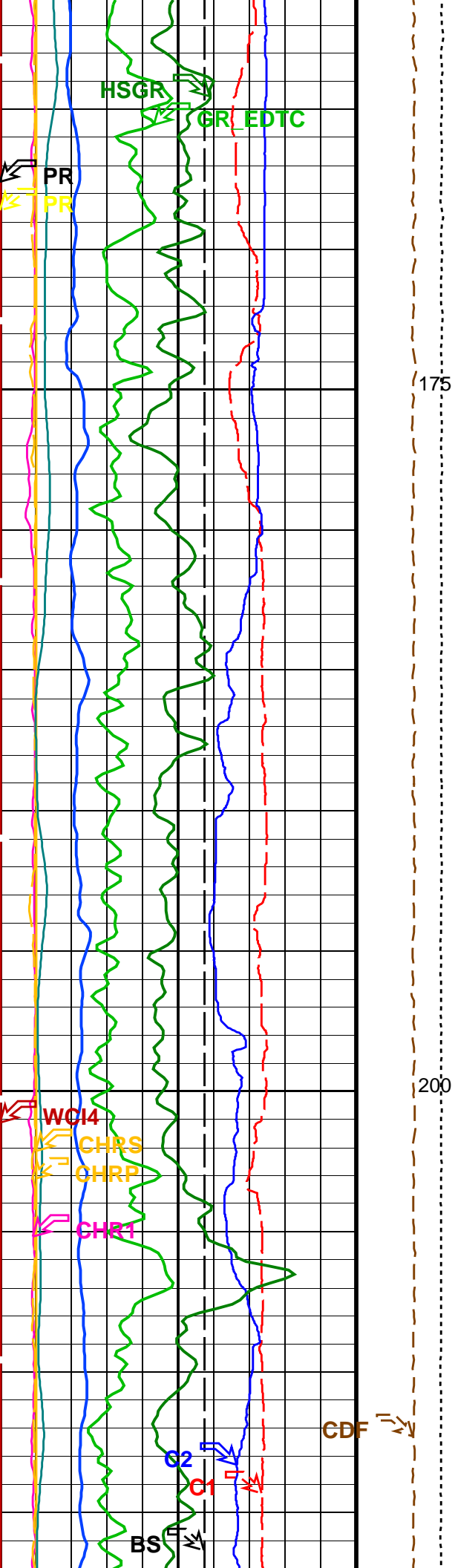
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DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

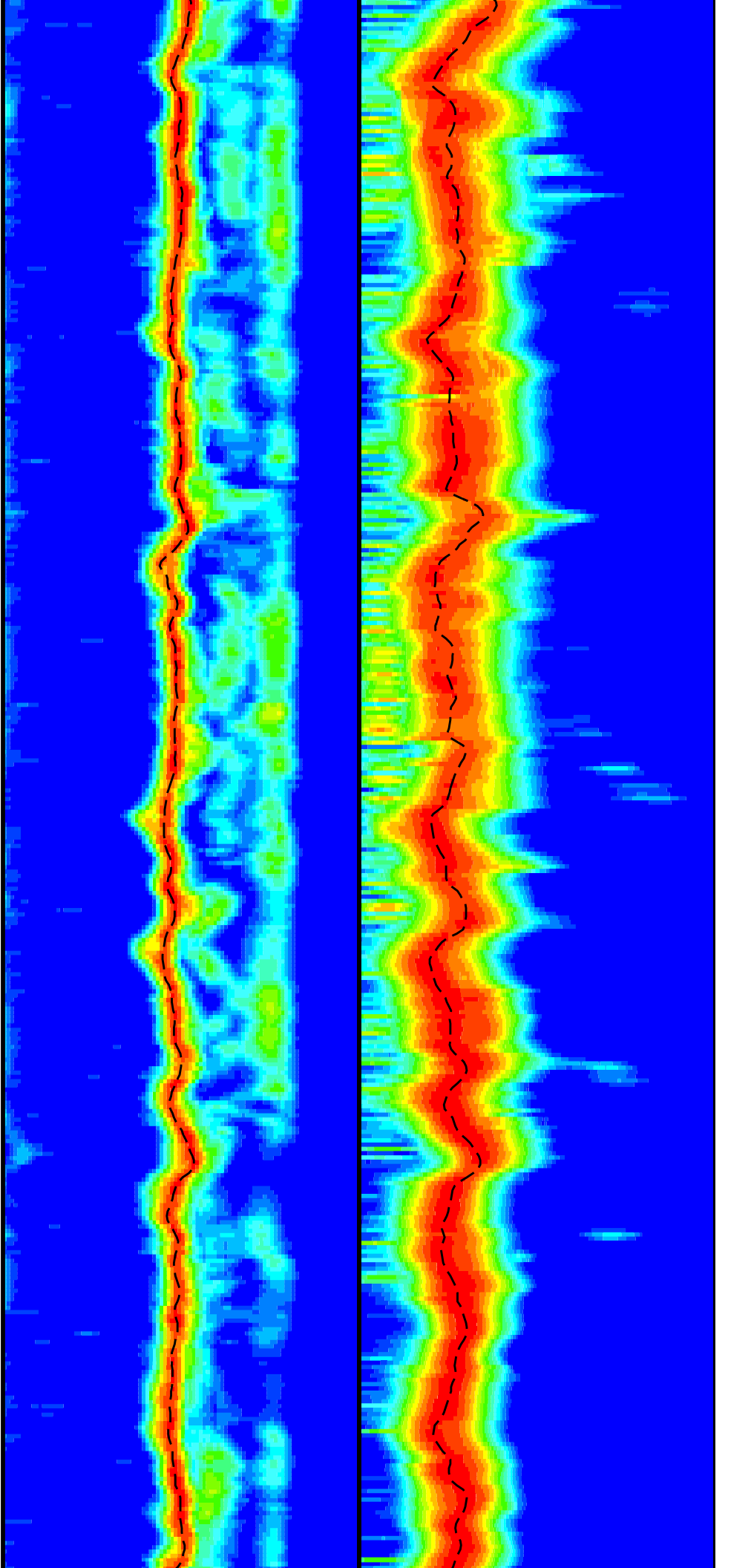
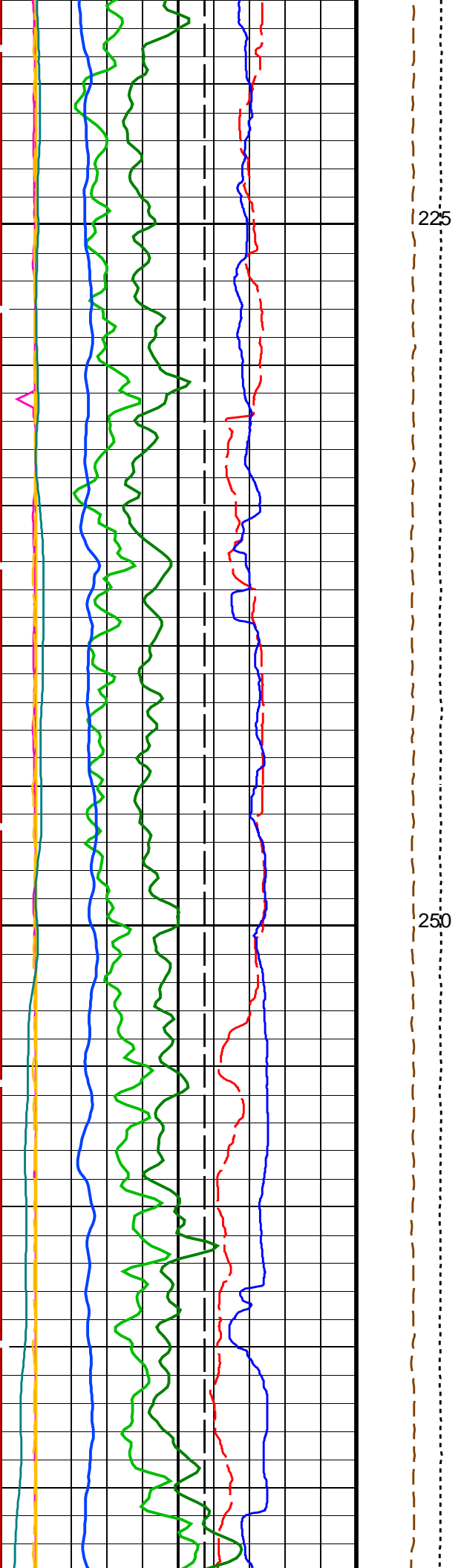
PIP SUMMARY

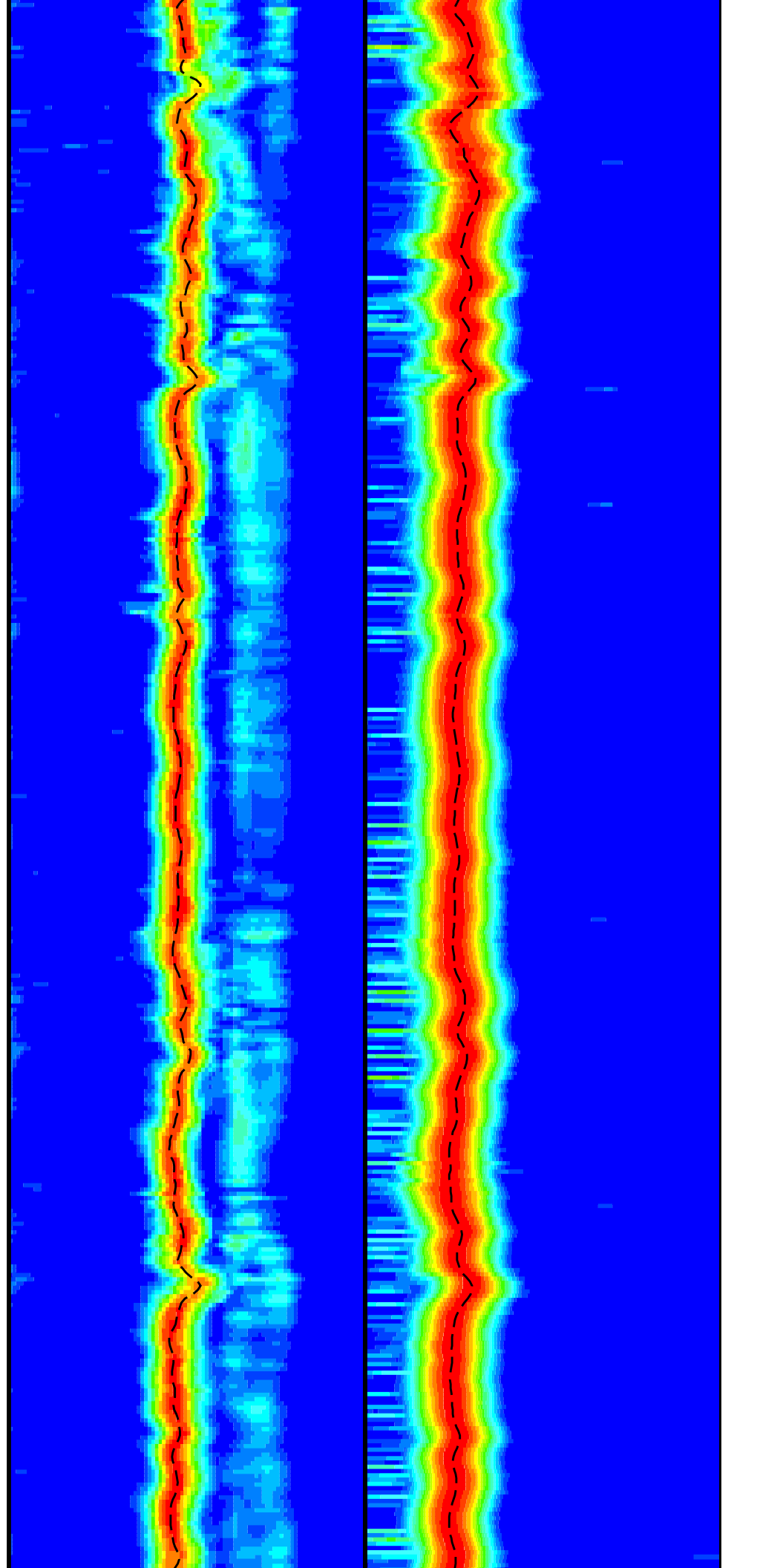
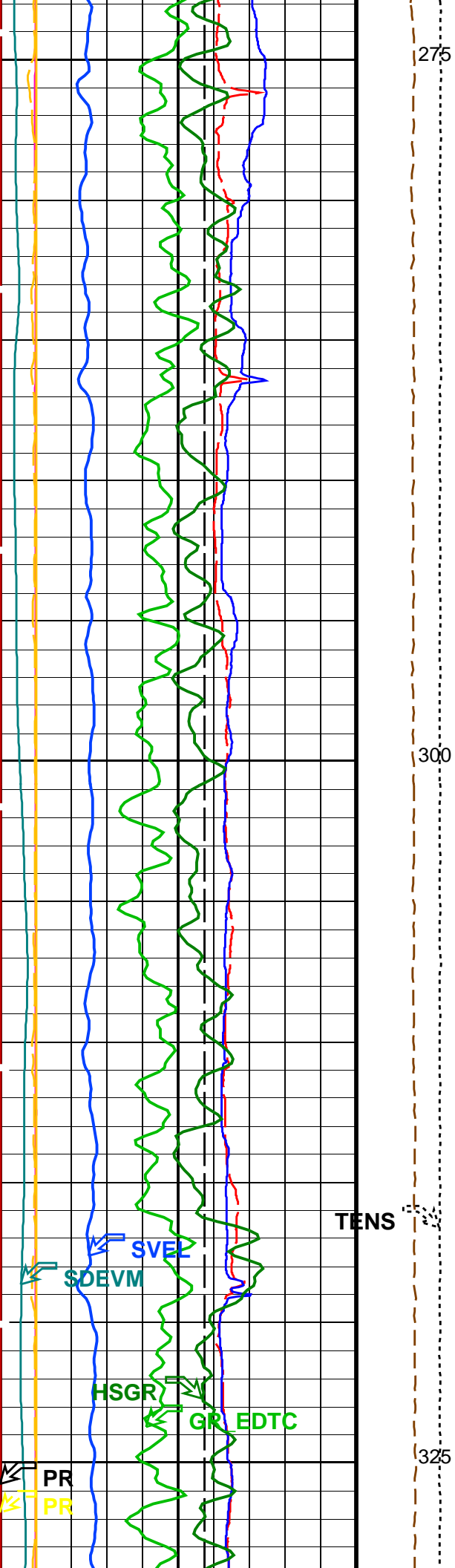
Time Mark Every 60 S

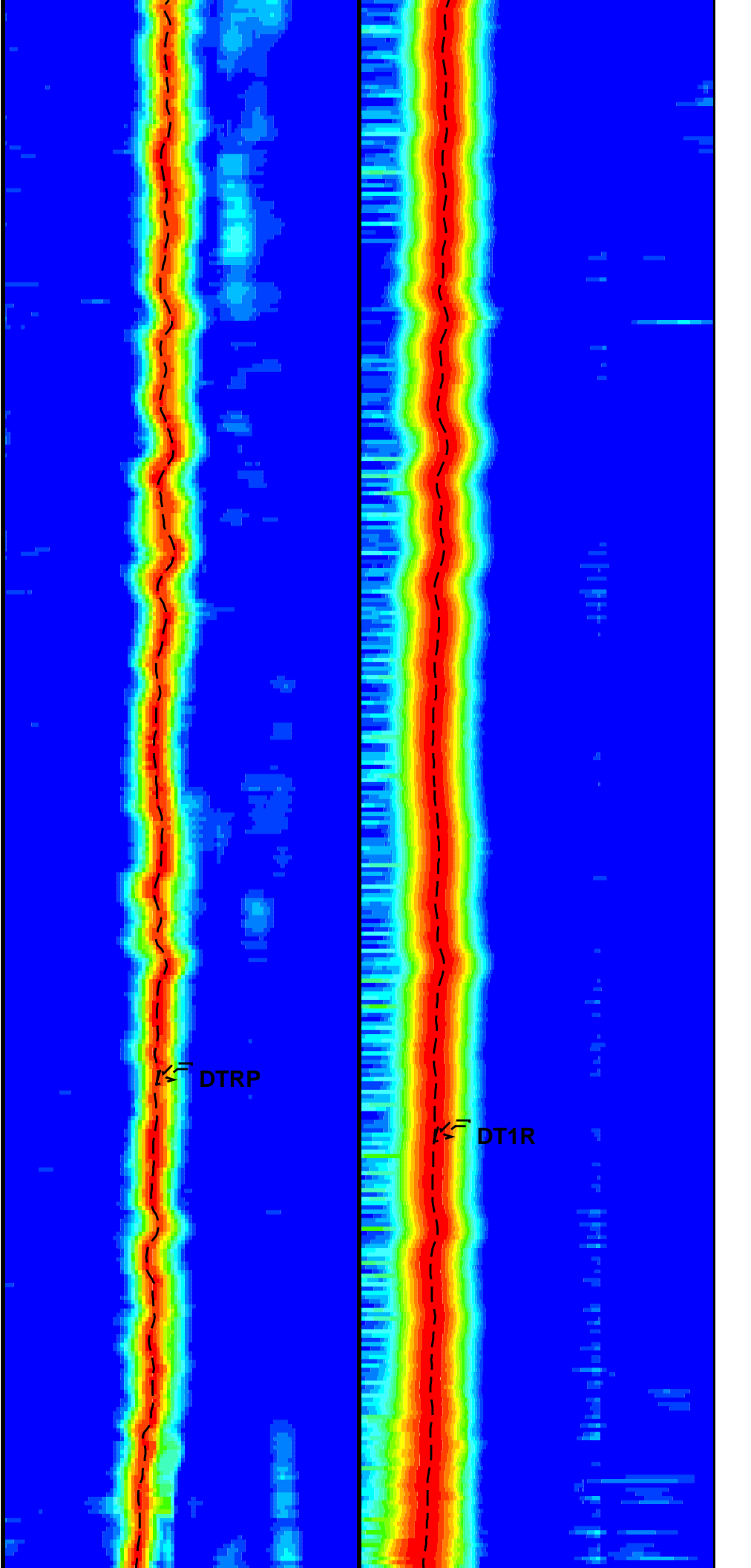
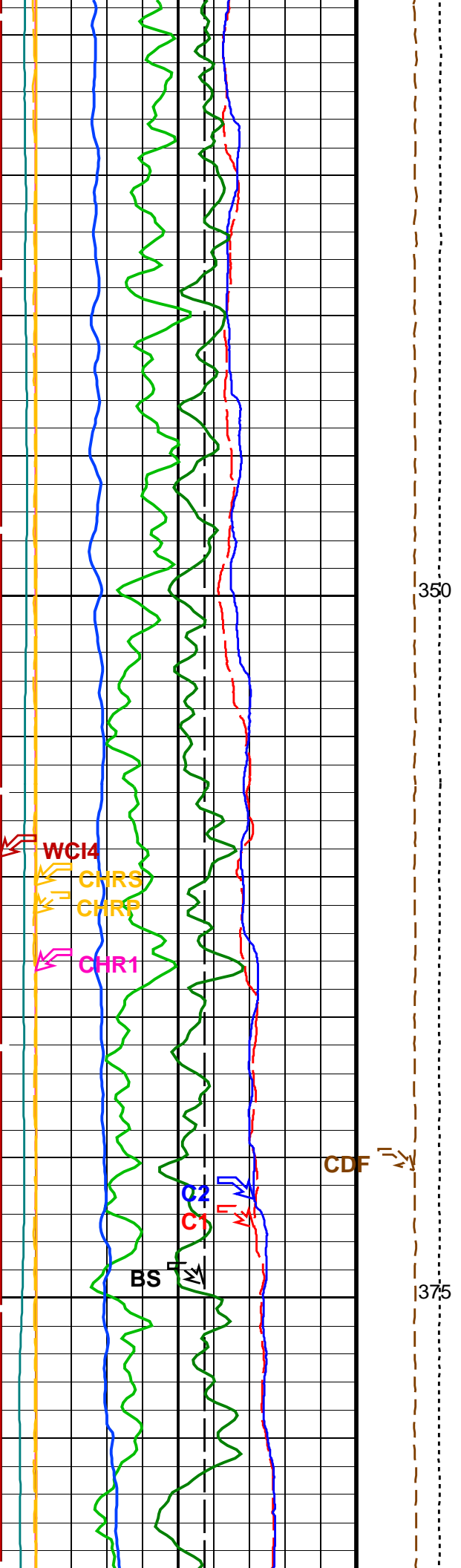
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / RA - Lower Dipole (CHR1)		
0	(----)	10
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Gamma Ray (GR_EDTC)		

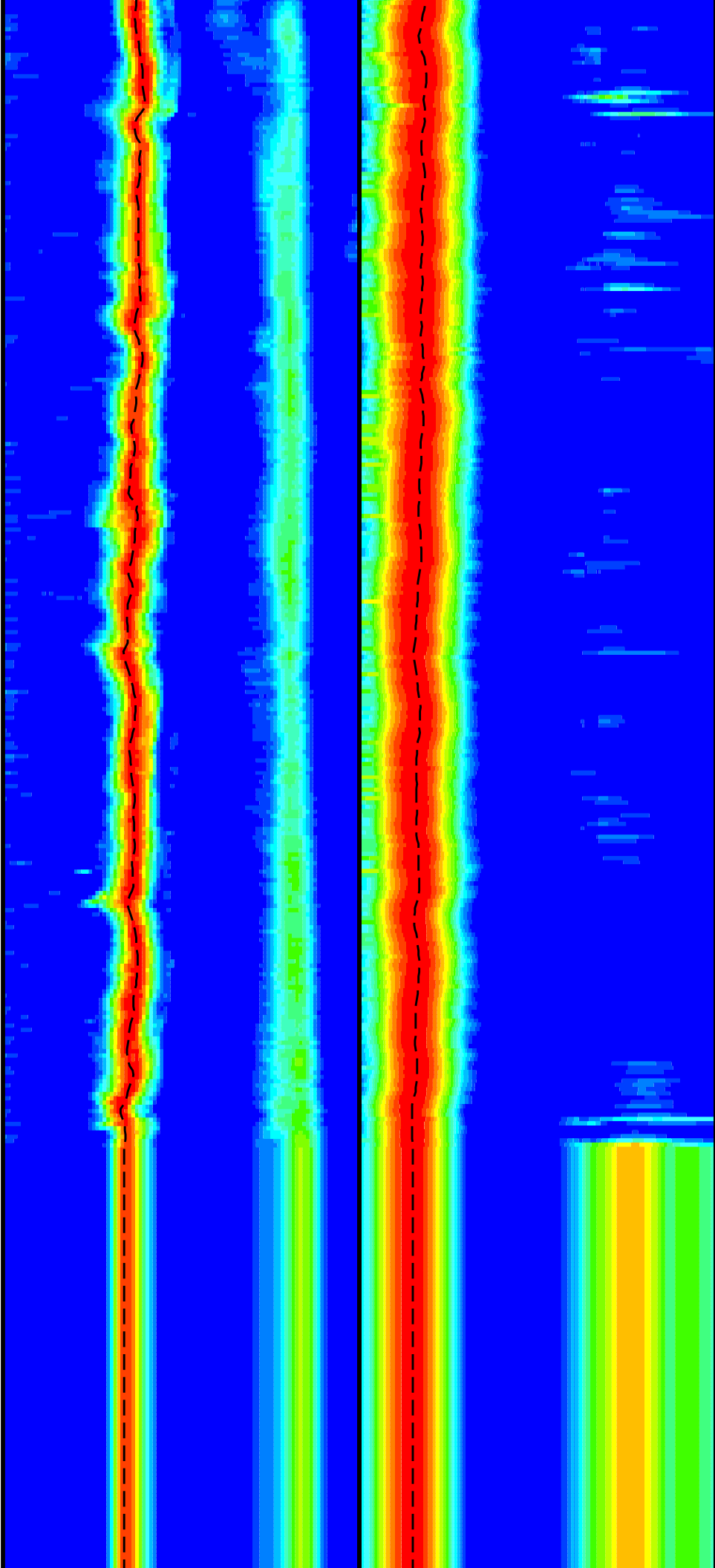
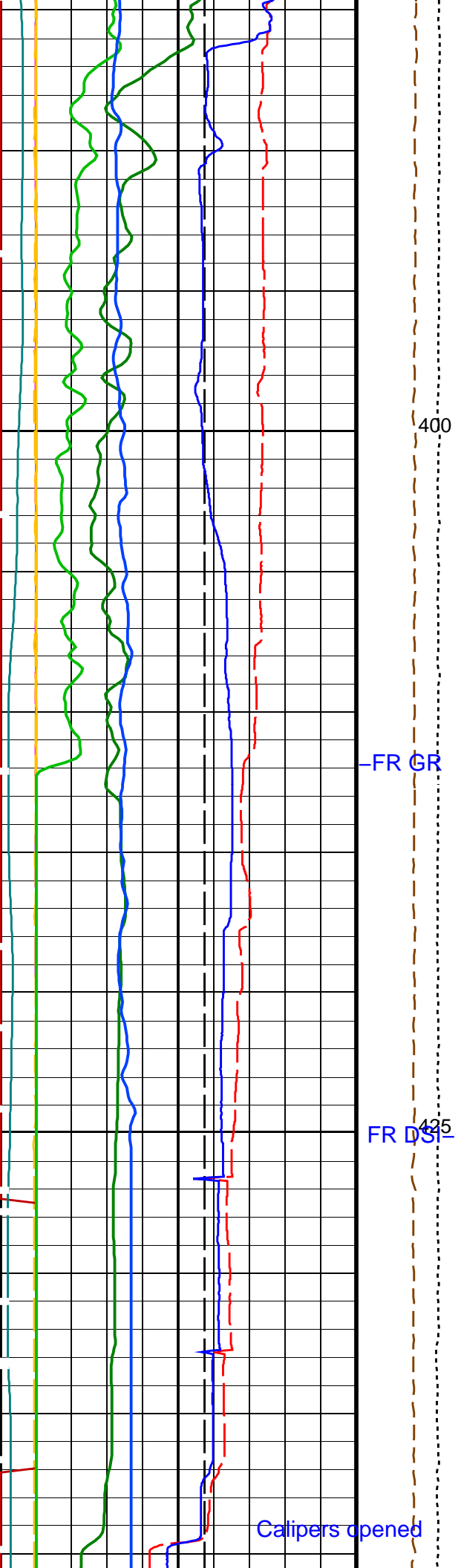


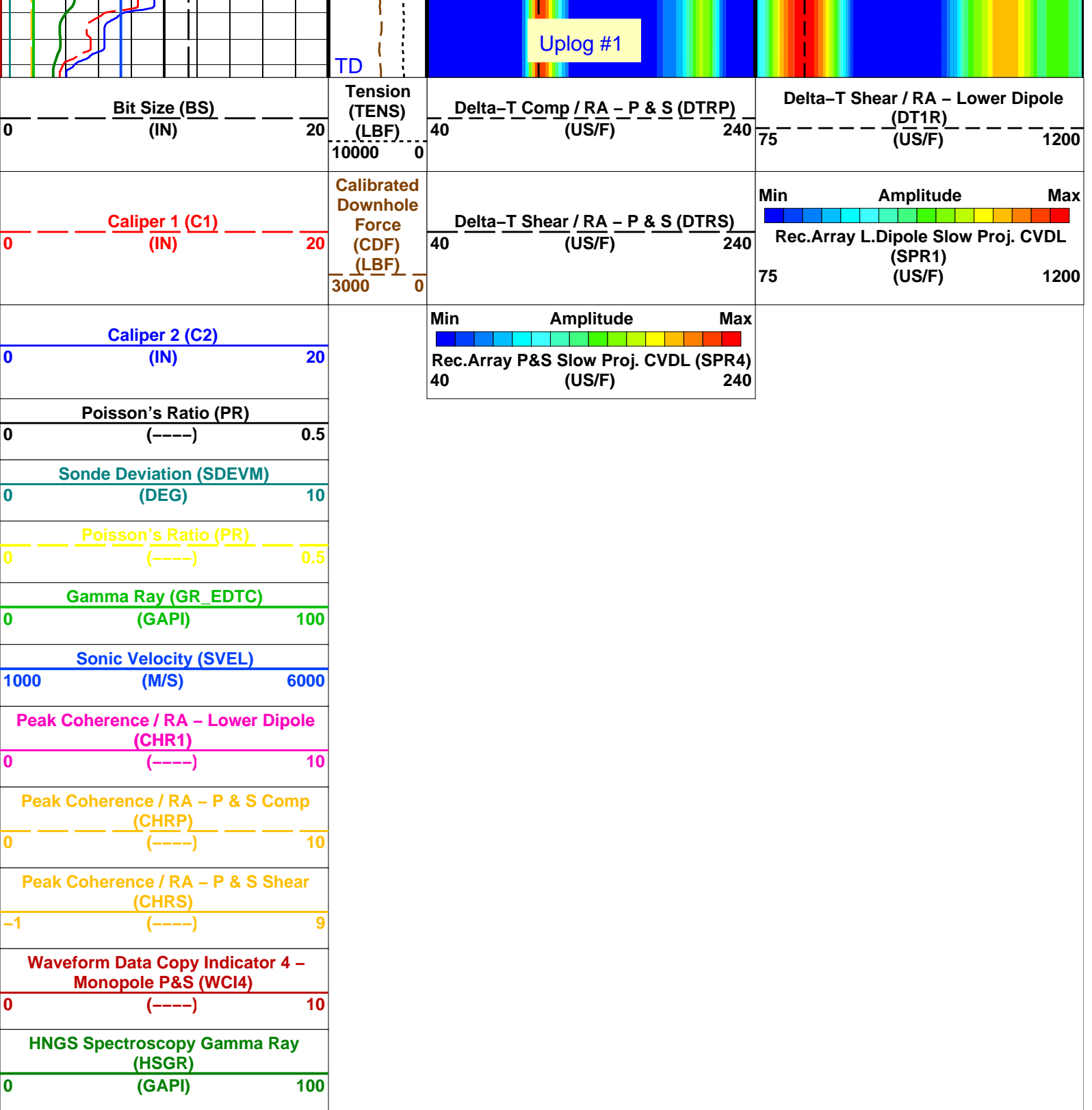












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner - B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	1.38126 DEG
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	70 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	190 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	1200	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	195	US/F
DTSS	Shear Delta-T Source for DTSM Channel	PS_SHEAR	
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	C1	
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	235	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	240	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	1200	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
PPCC	HNGS Barite Constant Correction Flag	NONE	

DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00133386	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	0.968124	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.948642	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-158.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 19-Sep-2015 13:35

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_024LUP	FN:30	PRODUCER	15-Sep-2015 18:10	601.2 M	284.4 M
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_042PUP	FN:53	PRODUCER	19-Sep-2015 13:35		

Company: International Ocean Discovery Program Well: Expedition 356, Site U1463B

Input DLIS Files						
DEFAULT	FMS_DSI_NGS_024LUP	FN:30	PRODUCER	15-Sep-2015 18:10	601.2 M	284.4 M
Output DLIS Files						
DEFAULT	FMS_DSI_NGS_042PUP	FN:53	PRODUCER	19-Sep-2015 13:35	443.5 M	126.5 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

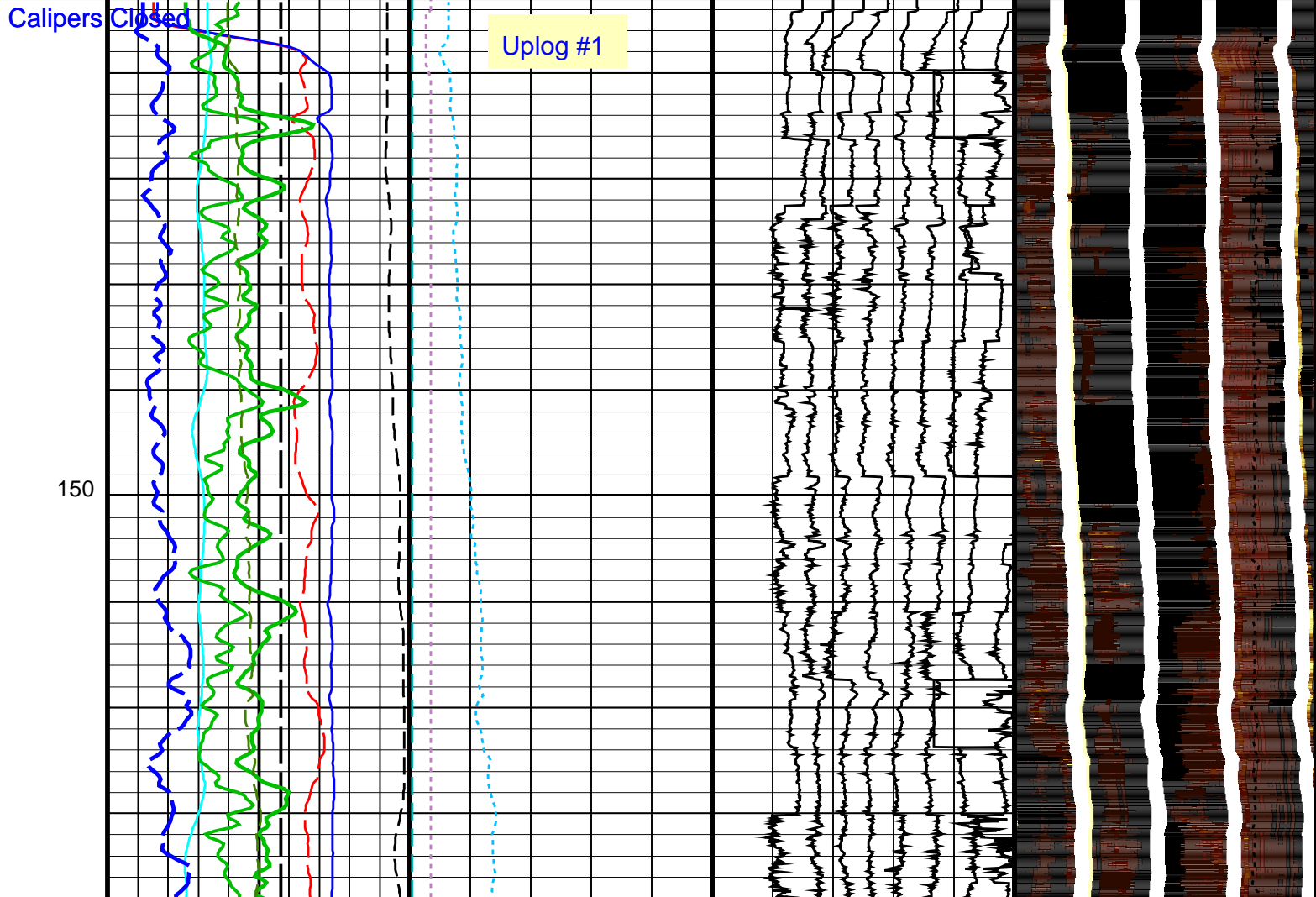
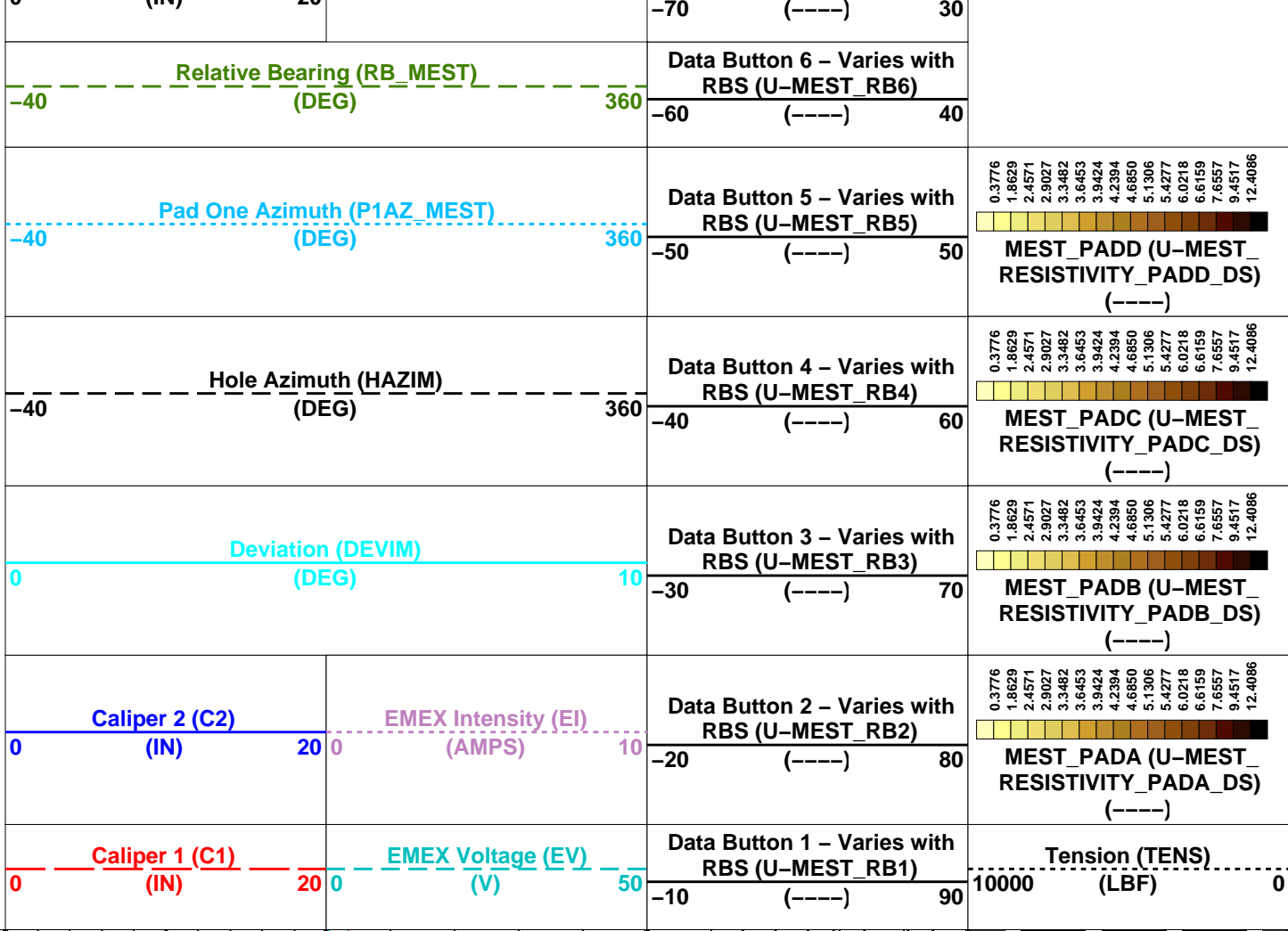
Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
HNGS Computed Gamma Ray (HCGR)		
0	(GAPI)	100
Gamma Ray (GR_EDTC)		
0	(GAPI)	100
Bit Size (BS)		
0	(IN)	20

Data Button 8 - Varies with RBS (U-MEST_RB8)

-80 (----) 20

Data Button 7 - Varies with RBS (U-MEST_RB7)



200

250

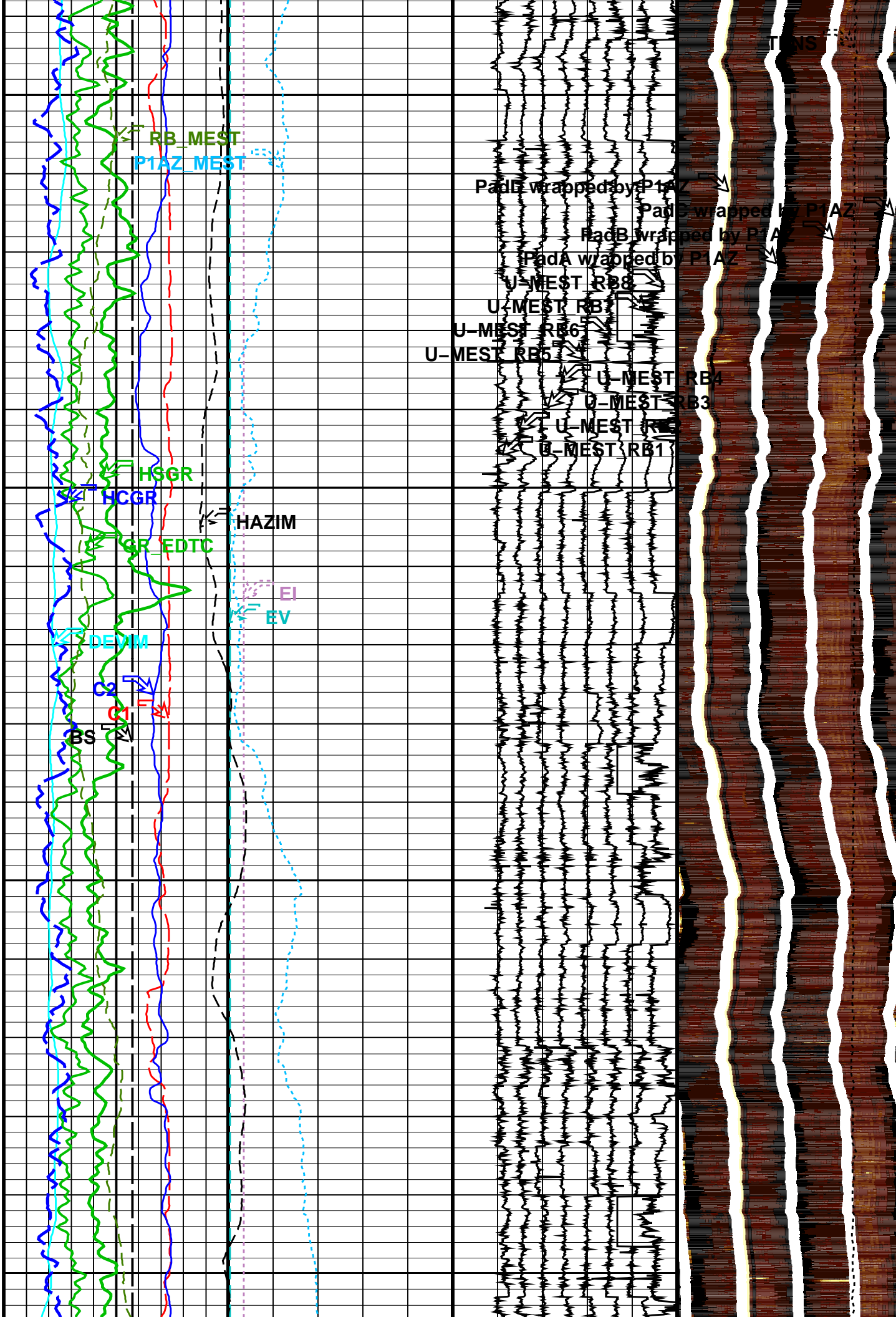
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P1AZ_MEST

HSGR
HCGR
GR_EDTC
DEVM

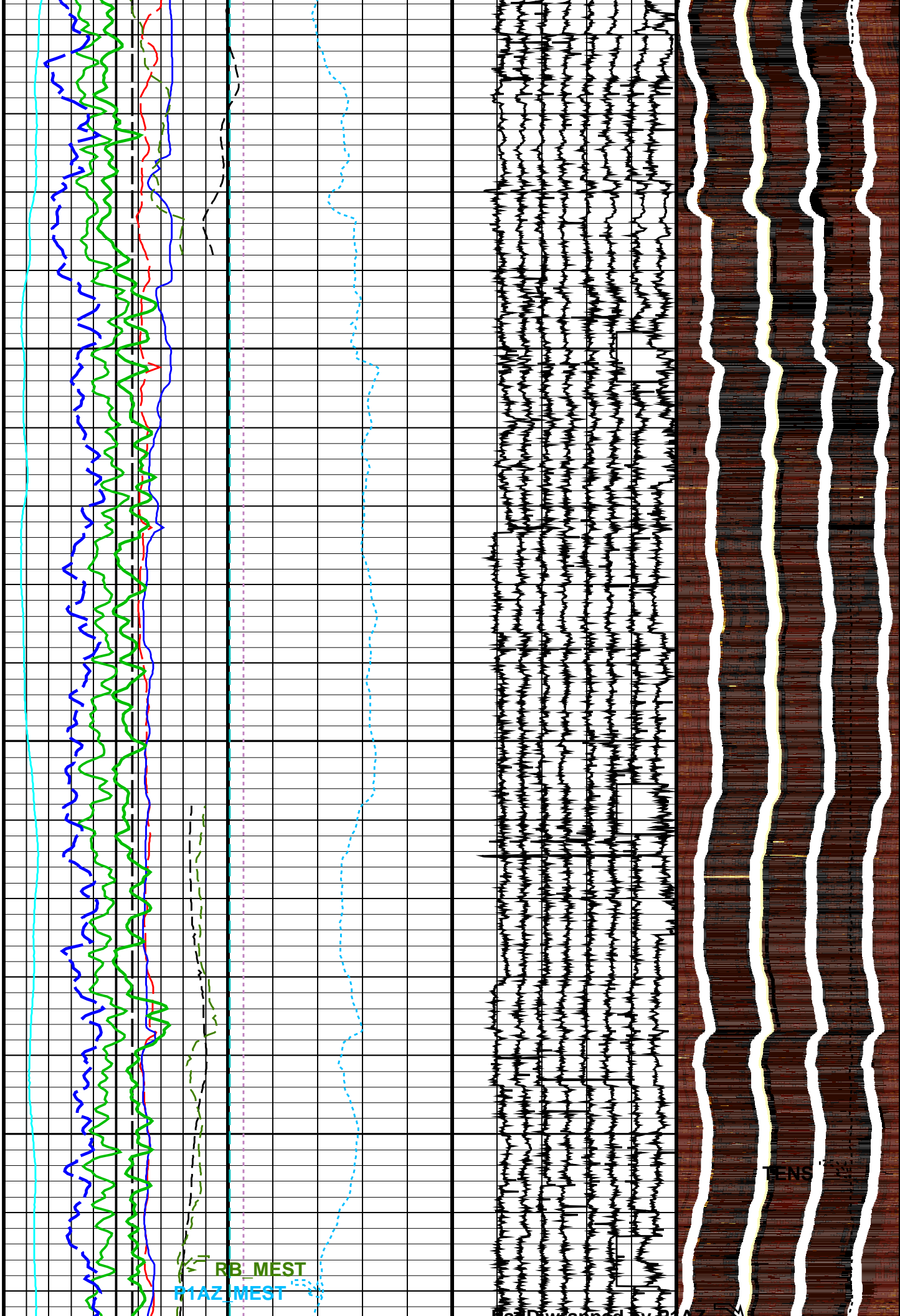
HAZIM

EI
EV

PadB wrapped by P1AZ
PadC wrapped by P1AZ
PadA wrapped by P1AZ
U-MEST RB8
U-MEST RB7
U-MEST RB6
U-MEST RB5
U-MEST RB4
U-MEST RB3
U-MEST RB2
U-MEST RB1

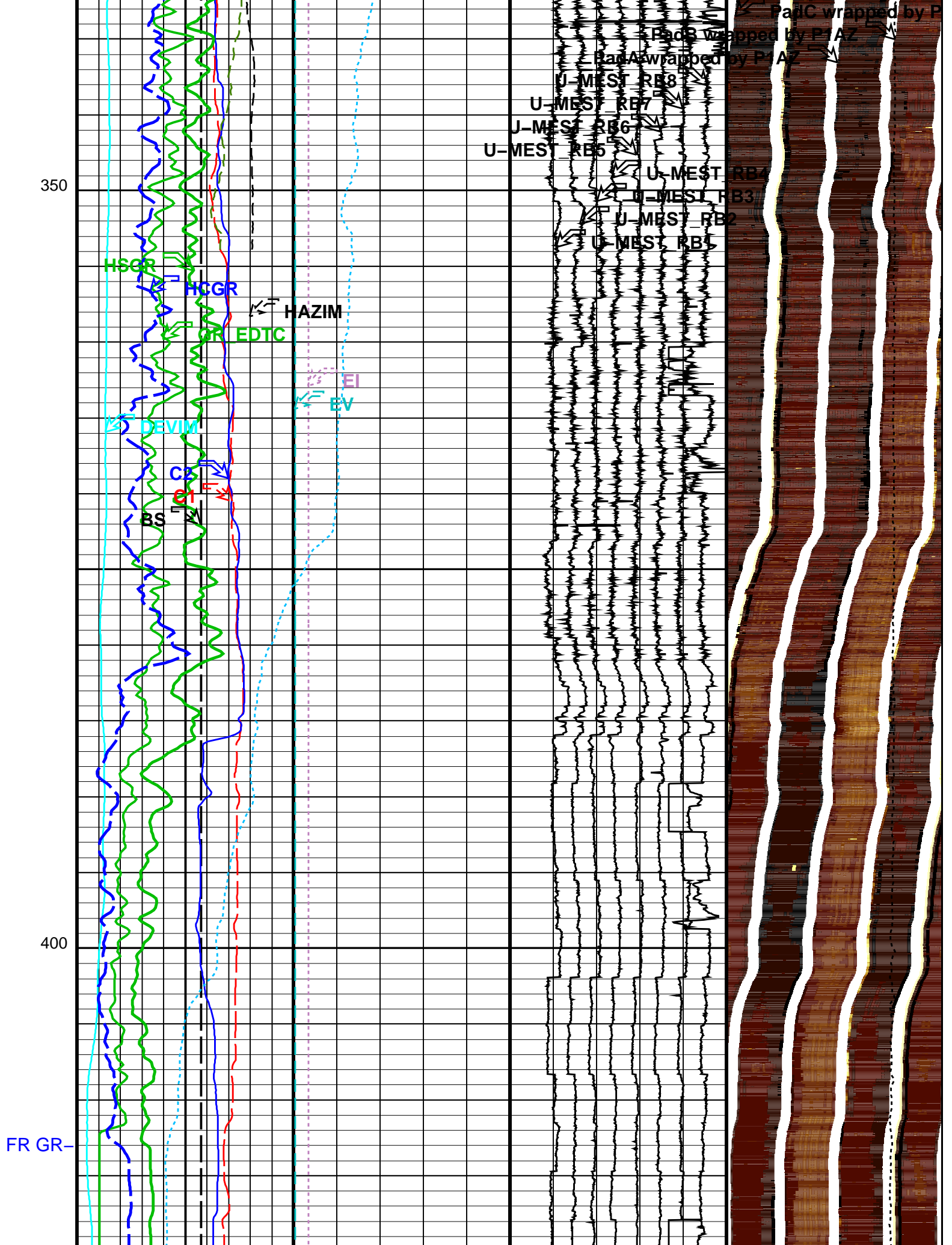


300



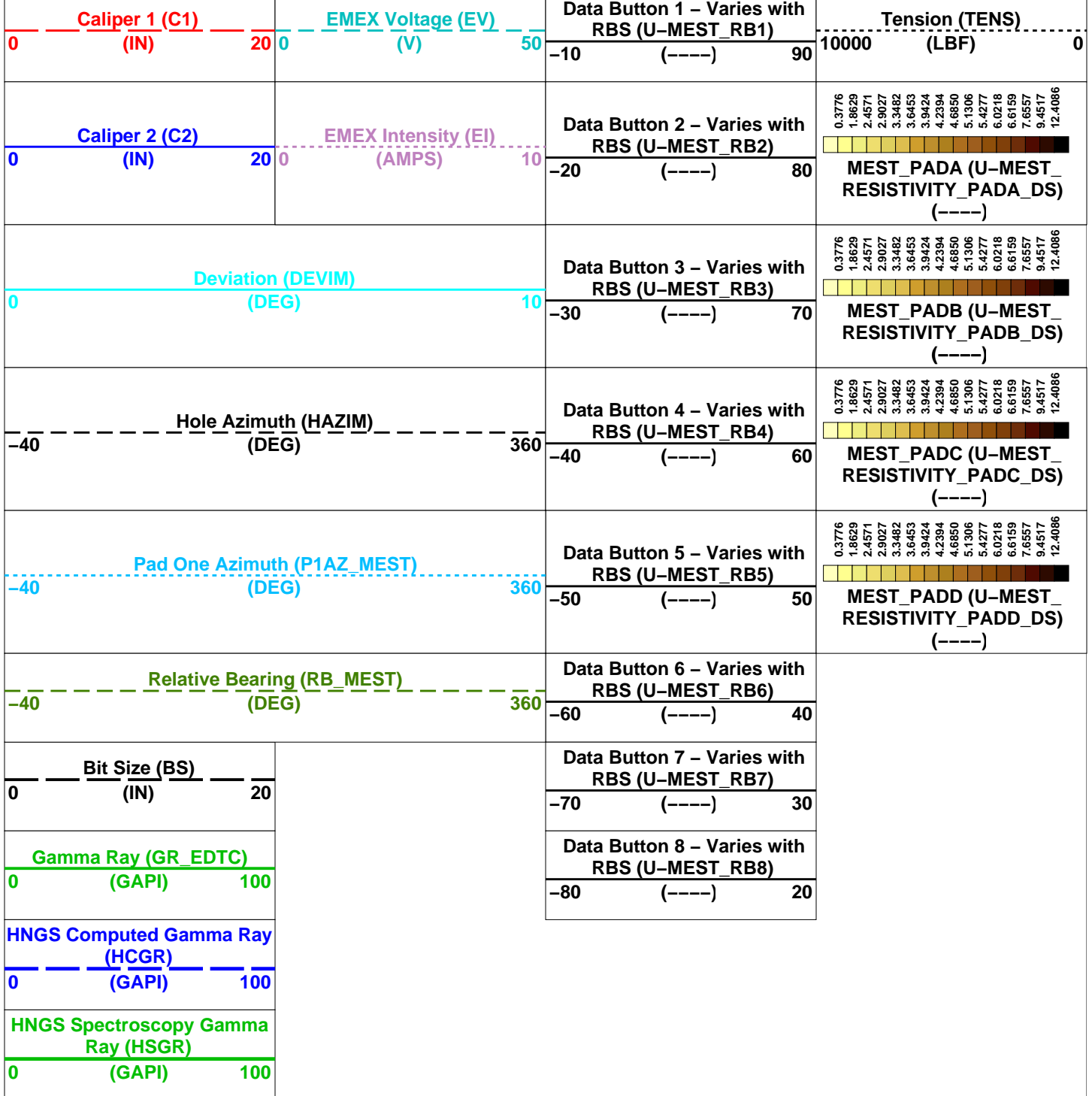
RB_MEST
P1AZ_MEST

TENS



Open Calipers
TD, FR

Uplong #1



PIP SUMMARY

Parameters

DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner – B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	1.38126	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
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 Conpant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00133386	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
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	0.968124	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.948642	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	-158.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:300 Graphics File Created: 19-Sep-2015 13:35

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_024LUP	FN:30	PRODUCER	15-Sep-2015 18:10	601.2 M	284.4 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_042PUP	FN:53	PRODUCER	19-Sep-2015 13:35		
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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 5-Aug-2015 16:41							
Caliper 1 Zero Measurement	12.00	N/A	12.07	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	11.92	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.13	N/A	15.36	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.13	N/A	15.36	N/A	N/A	N/A	IN

Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 15-Sep-2015 20:12

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: 15-Sep-2015 20:12

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: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23

Na 511 Peak Loc	40.00	37.71	37.63	37.62	-0.01348	1.000	
Na 511 Peak Res	15.50	16.11	15.42	15.72	0.3043	2.000	%
High Voltage	1150	1211	1201	1204	2.856	N/A	V
Na 1785 Peak Loc	142.6	136.7	136.8	136.3	-0.4773	7.000	
Na 1785 Peak Res	8.500	10.13	8.646	8.654	0.007848	2.000	%
Temperature	15.50	22.16	22.65	22.78	0.1236	N/A	DEGC
Na Count Rate	45.00	43.96	43.37	42.72	-0.6500	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23

Na 511 Peak Loc	40.00	39.69	39.55	39.58	0.02773	1.000	
Na 511 Peak Res	15.50	15.27	16.42	15.01	-1.409	2.000	%
High Voltage	1150	1084	1083	1085	2.161	N/A	V
Na 1785 Peak Loc	142.6	143.4	143.2	142.7	-0.5449	7.000	
Na 1785 Peak Res	8.500	8.457	8.664	8.451	-0.2128	2.000	%
Temperature	15.50	21.65	22.00	22.57	0.5625	N/A	DEGC
Na Count Rate	45.00	44.18	43.52	42.99	-0.5368	8.000	CPS

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

Master: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23

Coincidence Count Rate Ratio	1.000	0.9887	0.9903	0.9926	0.002269	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 31-Jul-2015 9:56

Na 511 Peak Set Point	40.00	39.00	---	---	---	---	
Th Peak Loc	209.6	206.7	---	---	---	---	
Th Peak Res	7.000	8.351	---	---	---	---	%
Background Count Rate	142.5	37.67	---	---	---	---	CPS
Gain Ratio	1.000	1.042	---	---	---	---	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 31-Jul-2015 9:56

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	211.5	---	---	---	---	
Th Peak Res	7.000	6.877	---	---	---	---	%
Background Count Rate	142.5	39.84	---	---	---	---	CPS
Gain Ratio	1.000	1.014	---	---	---	---	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 15-Sep-2015 6:46

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: Calibration out of date 5-Aug-2015 7:56 After: Calibration out of date 5-Aug-2015 9:33

Gamma Ray (Jig – Bkg)	152.3	N/A	152.3	152.9	0.5175	13.85	GAPI
Gamma Ray (Calibrated)	165.0	N/A	164.0	164.6	0.5571	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 – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	804
Auxiliary Equipment:		
MEST-B Preamplifier Cartridge Housing	MEPH – A	701
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	726

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment: HNGC Cartridge	HNGC – B	439
Auxiliary Equipment: HNGC Housing	HNGH – A	380

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment: HNGS Sonde	HNGS – BA	177
Auxiliary Equipment: HNGS Sonde Housing Gamma Source Radioactive	HNSH – BA GSR – U	174 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		37.71	Master		16.11	Master		1211	
Before		37.63	Before		15.42	Before		1201	
After		37.62	After		15.72	After		1204	
	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		136.7	Master		10.13	Master		22.16	
Before		136.8	Before		8.646	Before		22.65	
After		136.3	After		8.654	After		22.78	
	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		43.96							
Before		43.37							
After		42.72							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 31-Jul-2015 10:01			Before: 5-Aug-2015 7:59			After: 5-Aug-2015 9:23			

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		39.69	Master		15.27	Master		1084	
Before		39.55	Before		16.42	Before		1083	
After		39.58	After		15.01	After		1085	
	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		143.4	Master		8.457	Master		21.65	
Before		143.2	Before		8.664	Before		22.00	
After		142.7	After		8.451	After		22.57	
	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		44.18							
Before		43.52							
After		42.99							

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9887
Before		0.9903
After		0.9926
	0.9500 (Minimum)	1.000 (Nominal)
		1.050 (Maximum)
Master: 31-Jul-2015 10:01		
Before: 5-Aug-2015 7:59		
After: 5-Aug-2015 9:23		

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			39.00	Master			206.7	Master			8.351
	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			37.67	Master			1.042				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 31-Jul-2015 9:56											

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			211.5	Master			6.877
	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			39.84	Master			1.014				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 31-Jul-2015 9:56											

Enhanced DTS Cartridge / Equipment Identification			
Primary Equipment:			
EDTC Gamma Ray Detector	EDTG - A/B	8305	
Enhanced DTS Cartridge	EDTC - B	8317	
Auxiliary Equipment:			
EDTC Housing	EDTH - B	8303	

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.816
	9.610 (Minimum)	9.810 (Nominal)
		10.01 (Maximum)
Before: 15-Sep-2015 6:46		

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			9.594	Before			152.3	Before			164.0
After			10.26	After			152.9	After			164.6
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		138.5 (Minimum)	152.3 (Nominal)	166.2 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Company: International Ocean Discovery Program

Schlumberger

Well: Expedition 356, Site U1463B

Field: Indonesian Throughflow

Rig: JOIDES Resolution

Ocean: Indian

Formation Micro Scanner (FMS)
Dipole Shear Sonic (DSI)
Gamma Ray (HNGS)