



Company: Lamont Doherty Earth Observatory

Well: Expedition 346, Site U1427A

Field: Asian Monsoon

Rig: JOIDES Resolution Country: USA

DSI Sonic
Upper Dipole

LOCATION

Latitude: N 35° 1.9996'
Longitude: E 134° 47.999'

Elev.: K.B. -337.10 m
G.L. 0.00 m
D.F. -337.10 m

Permanent Datum: Sea Floor Elev.: 0.00 m
Log Measured From: Drill Floor -337.10 m above Perm. Datum
Drilling Measured From: Drill Floor

Ocean:
Pacific

Max. Well Deviation
0 deg

Longitude
E 134.8°

Latitude
N 35.033°

Rig: JOIDES Resolution

Field: Asian Monsoon

Location: Latitude: N 35° 1.9996'

Well: Expedition 346, Site U1427A

Company: Lamont Doherty Earth Observatory

MUD

Density	Viscosity	1.26 g/cm3			
Fluid Loss	PH				
Source Of Sample		N/A			
RM @ Measured Temperature		@		@	
RMF @ Measured Temperature		@		@	
RMC @ Measured Temperature		@		@	
Source RMF	RMC	N/A	N/A		
RM @ MRT	RMF @ MRT	@ 15	@ 15	@	@
Maximum Recorded Temperatures		15 degC			
Circulation Stopped	Time	8-Sep-2013	5:00		
Logger On Bottom	Time	8-Sep-2013	14:35		
Unit Number	Location	625003	Houston		
Recorded By		C. Furman			
Witnessed By		J. Lofi			

MUD

Density	Viscosity				
Fluid Loss	PH				
Source Of Sample					
RM @ Measured Temperature		@			
RMF @ Measured Temperature		@			
RMC @ Measured Temperature		@			
Source RMF	RMC				
RM @ MRT	RMF @ MRT	@	@		
Maximum Recorded Temperatures					
Circulation Stopped	Time				
Logger On Bottom	Time				
Unit Number	Location				
Recorded By					
Witnessed By					

Run 1

Run 2

R

[illegible]

DISCLAIMER

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OTHER SERVICES1



OS1:	HLDS
OS2:	HNGS
OS3:	MSS
OS4:	FMS
OS5:	HRLA

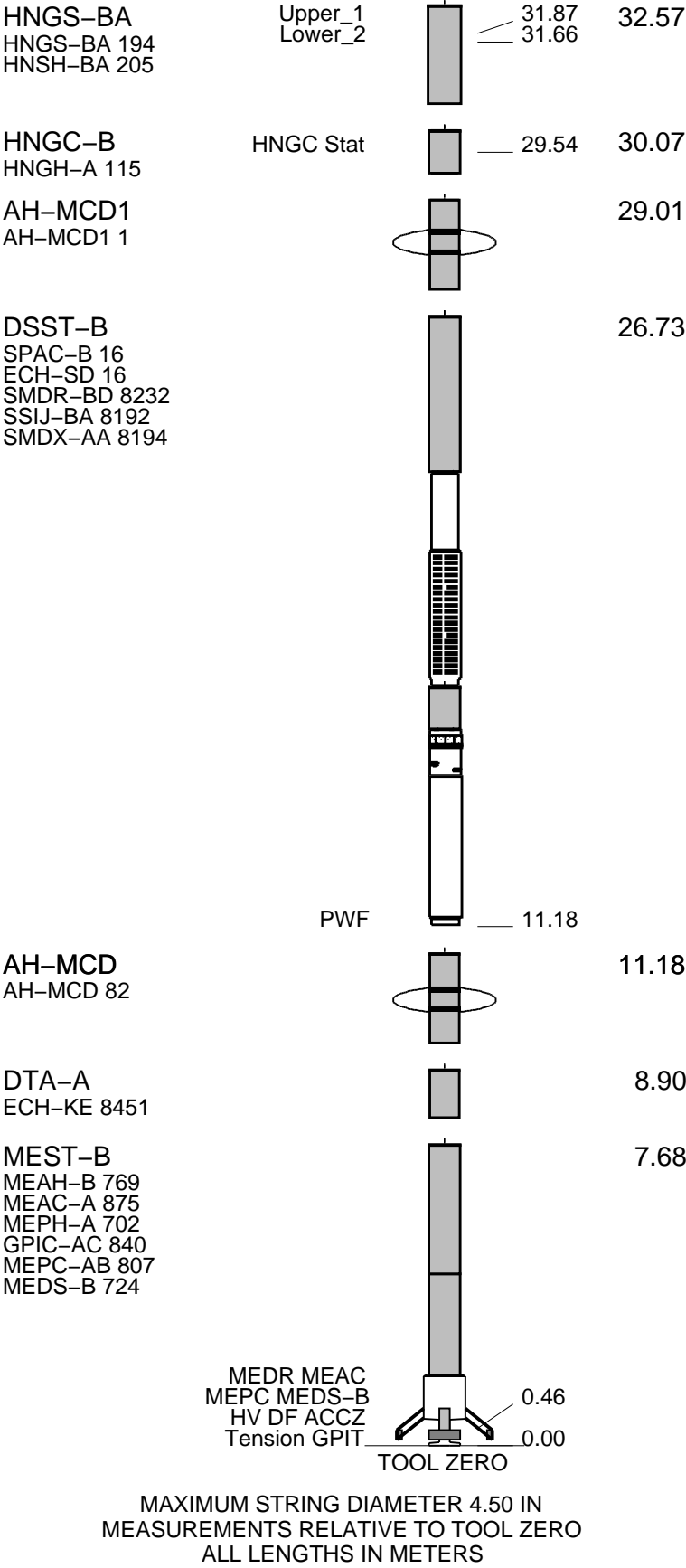
REMARKS: RUN NUMBER 1

Hole drilled and cored using APC/XCB coring system.
Modified MCD devices run above and below HRLA for centralization.
HLDS and MSS eccentricized by caliper and bowspring with knuckled to decouple from HRLA.
LFV Actuator (Go–Devil) run attached to bottom of MSS for LFV locking open / closed.
Logs recorded from drill floor (337.1m above permanent datum) then shifted to zero at sea floor.
Hole drilled with sea water and then displaced with weighted water–based mud having a density of 1.259 g/cc (10.5ppg).
Barite corrections applied to nuclear logs.
DSI run with Upper Dipole, P&S, and Stoneley in standard frequency for all passes.
DSI Lower Dipole run in LFD mode for downlog; standard frequency for both up passes.
EMEX switched off at 93.8m and FMS caliper closed at 91.8m to facilitate pipe entry.

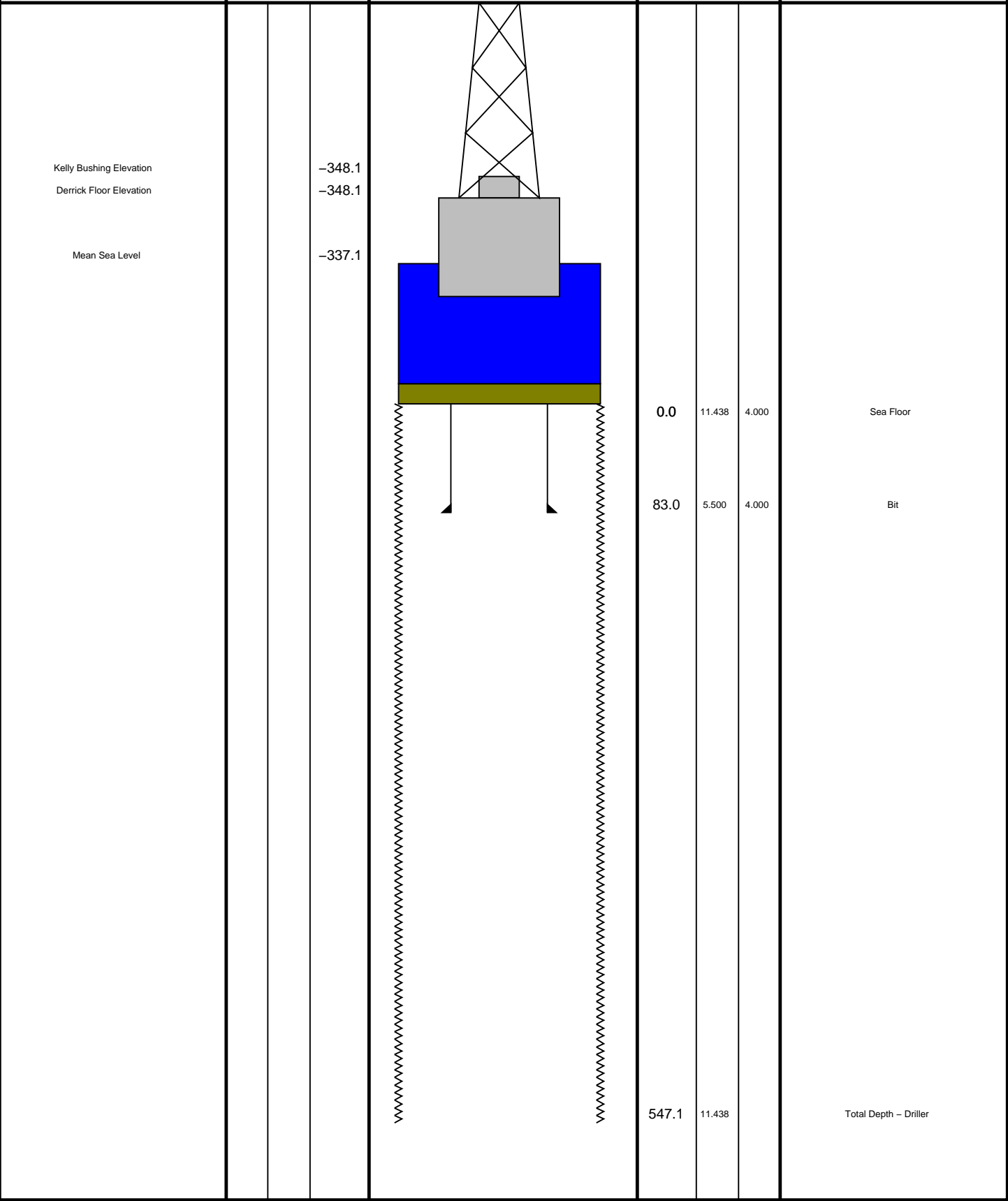
RUN 1 SERVICE ORDER #: PROGRAM VERSION: 19C0-187 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

RUN 1		RUN 2	
SURFACE EQUIPMENT			
GSR-U 616008 WITM (EDTS)-A			
DOWNHOLE EQUIPMENT			
LEH-MT 101	MDSB_EDTC		34.55
LEH-MT 101 101	Mud Tempe		
	CTEM		33.49
EDTC-B	Gamma Ray		32.92
EDTH-B 8303	EFTB DIAG		34.55
EDTC-B 8317	TelStatus		
EDTG-A/B 8305	EDTCB Ele		32.57



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





Downlog
1:200 Scale

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_028LUP	PRODUCER	09-Sep-2013 12:27	886.4 M	290.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:45	PRODUCER	09-Sep-2013 13:33	547.0 M	-22.3 M
CLIENT	FMS_DSI_NGS_037PUC	FN:46	CUSTOMER	09-Sep-2013 13:33	547.0 M	-22.9 M

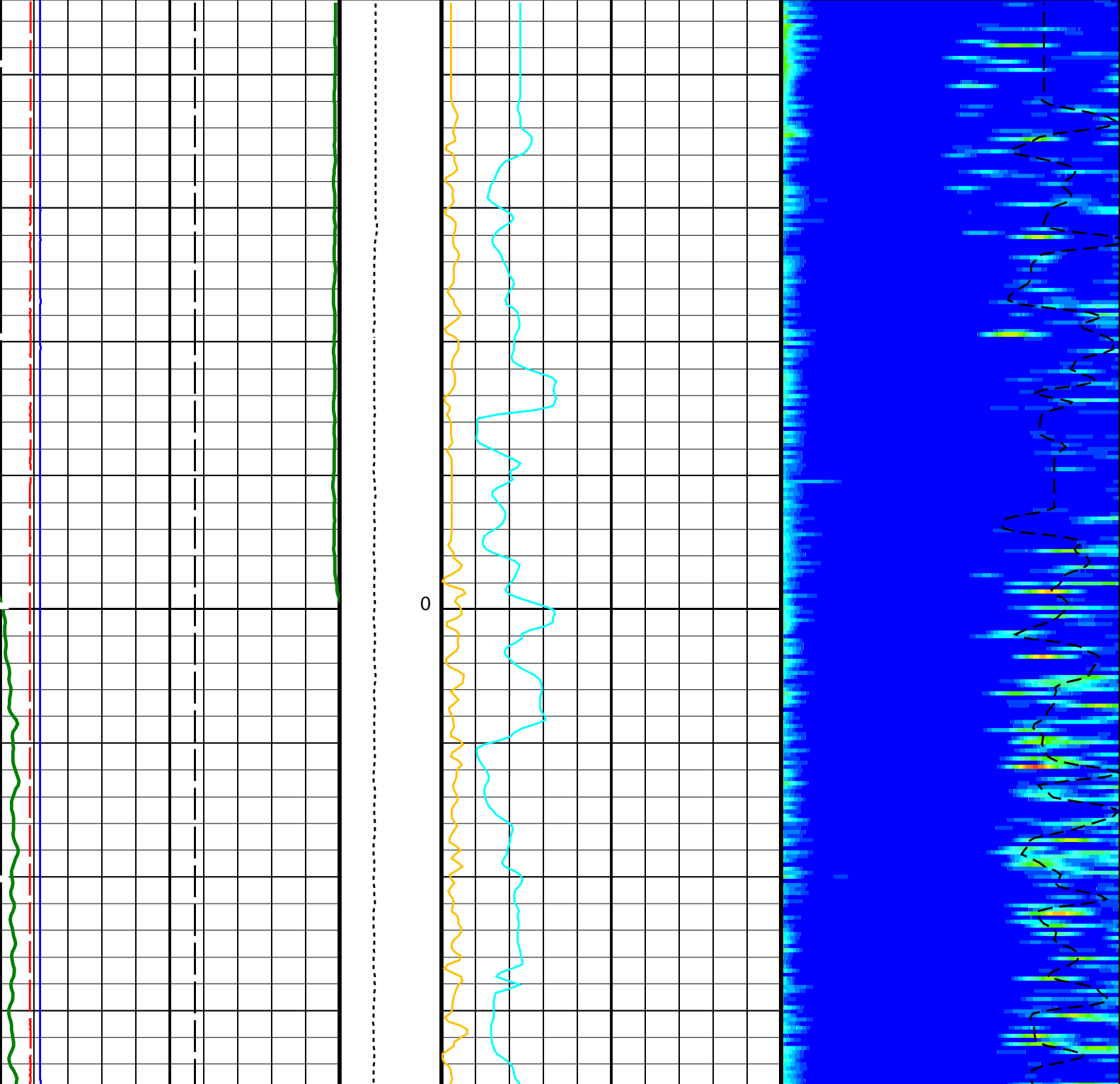
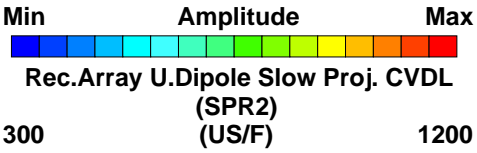
OP System Version: 19C0-187

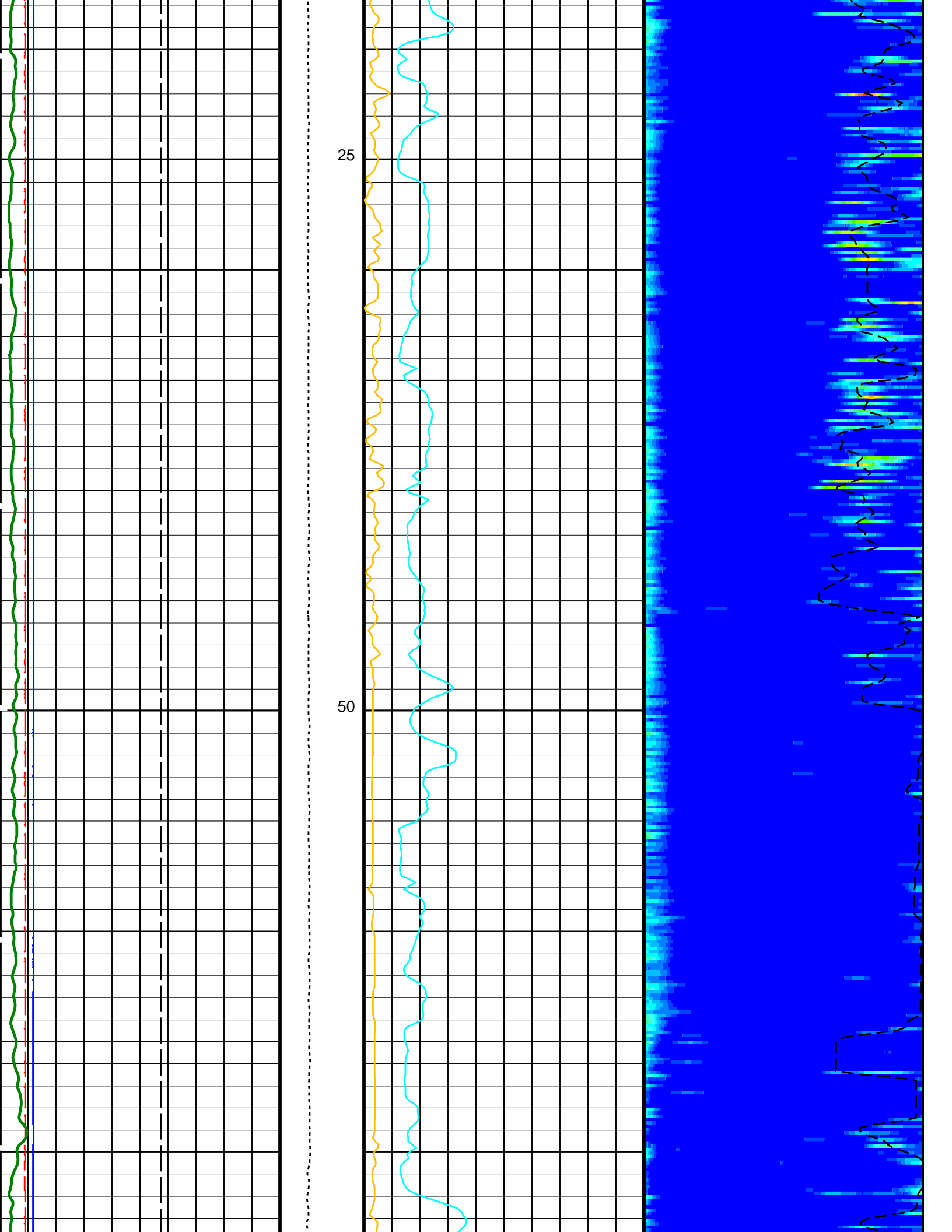
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DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

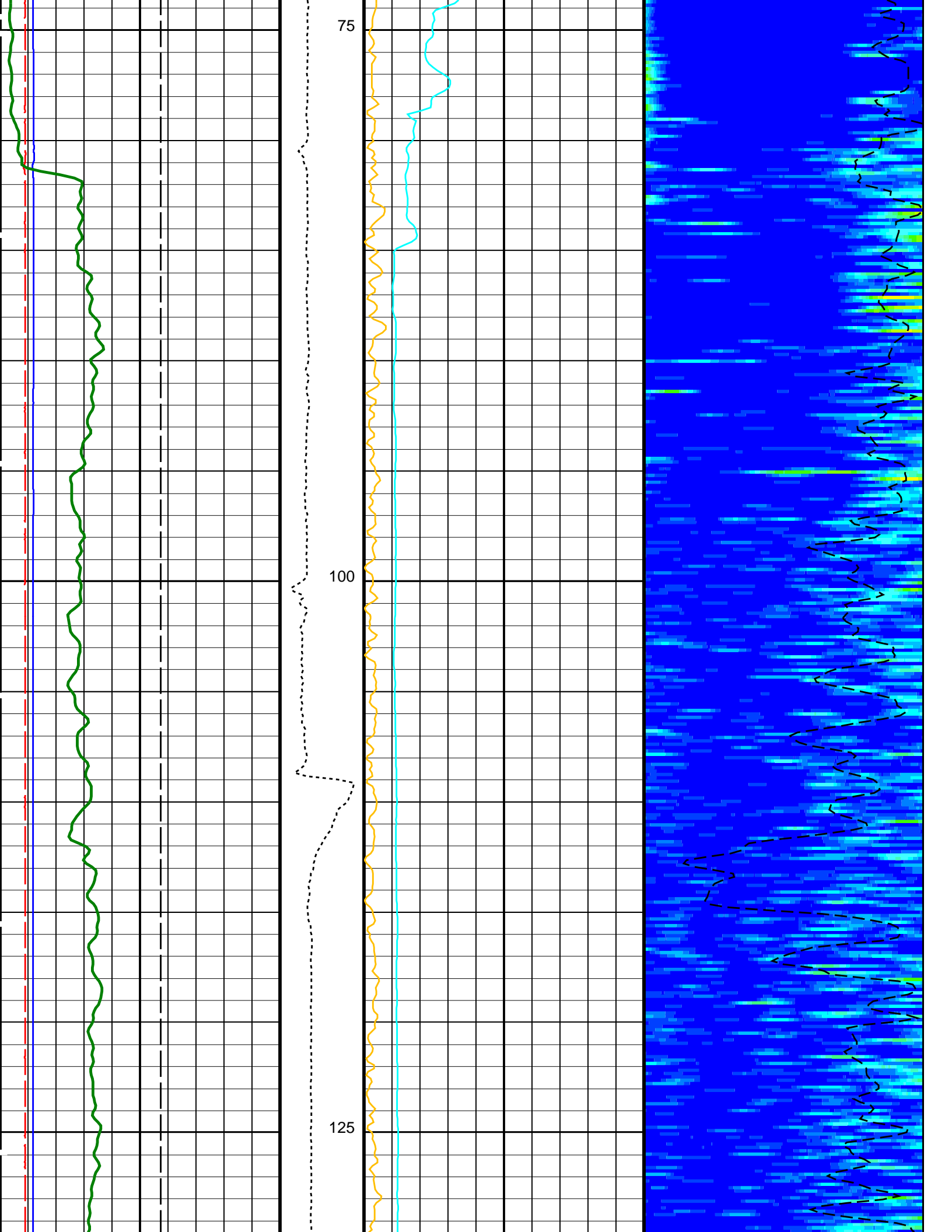
PIP SUMMARY

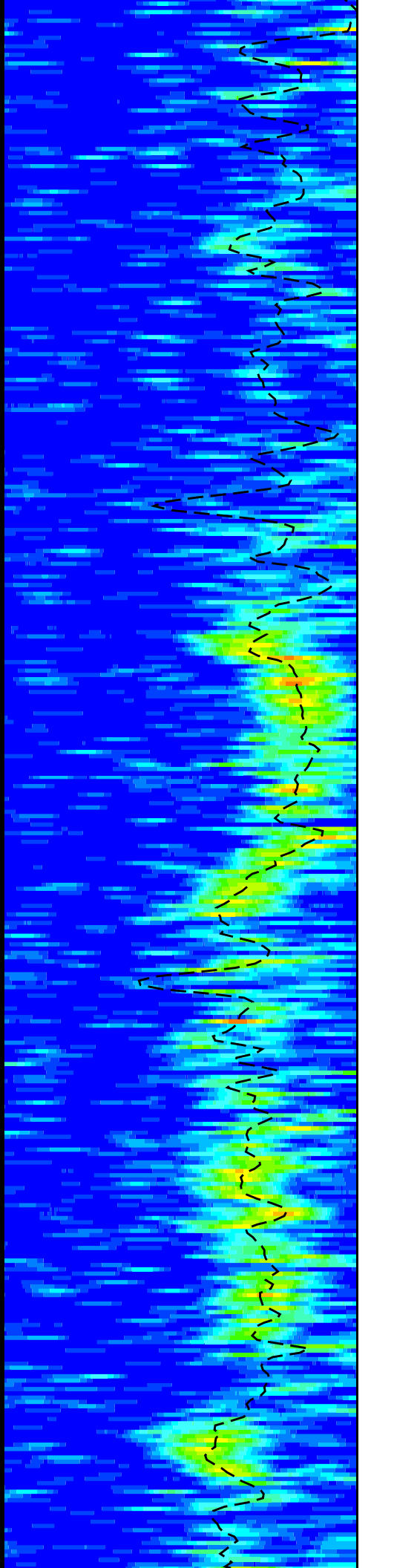
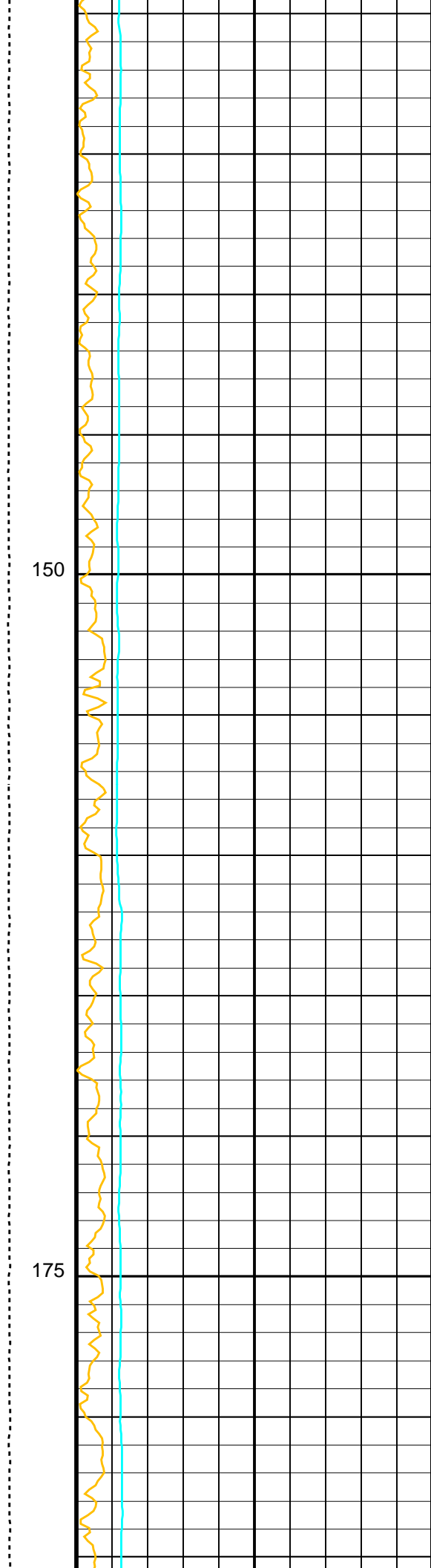
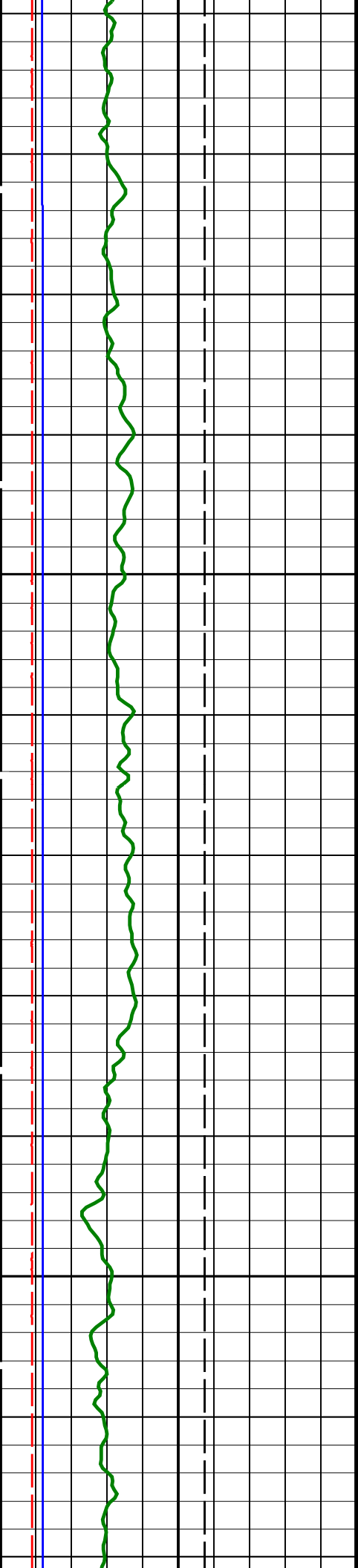
Time Mark Every 60 S

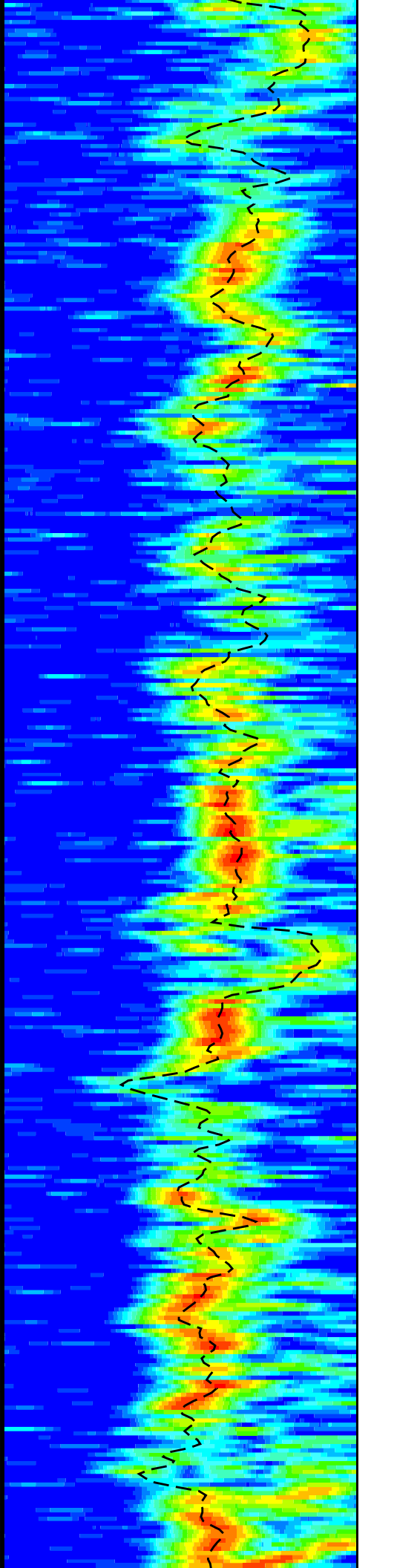
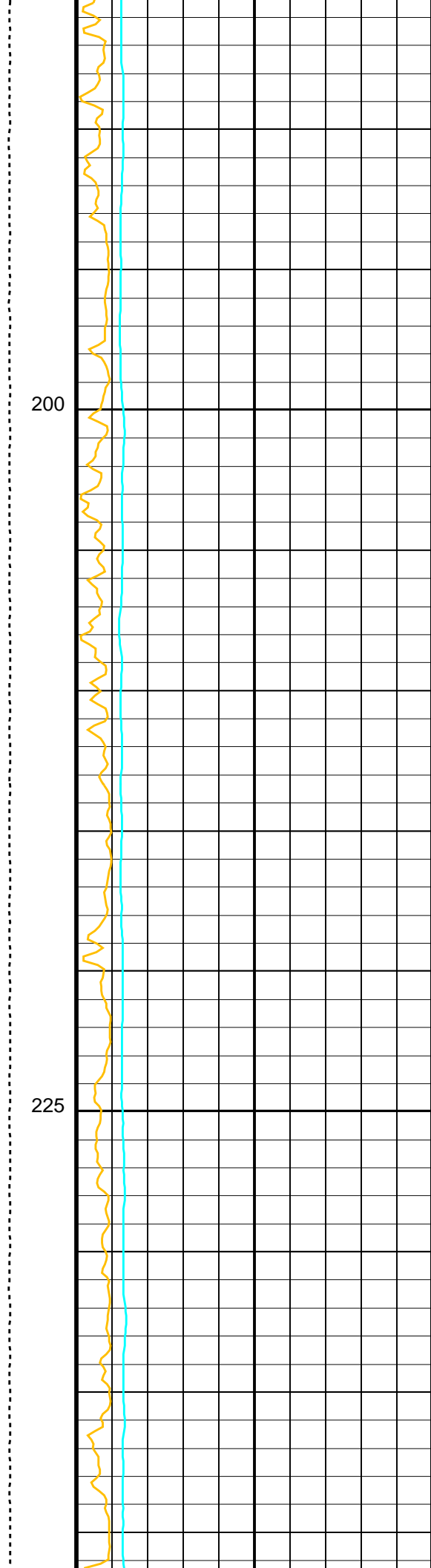
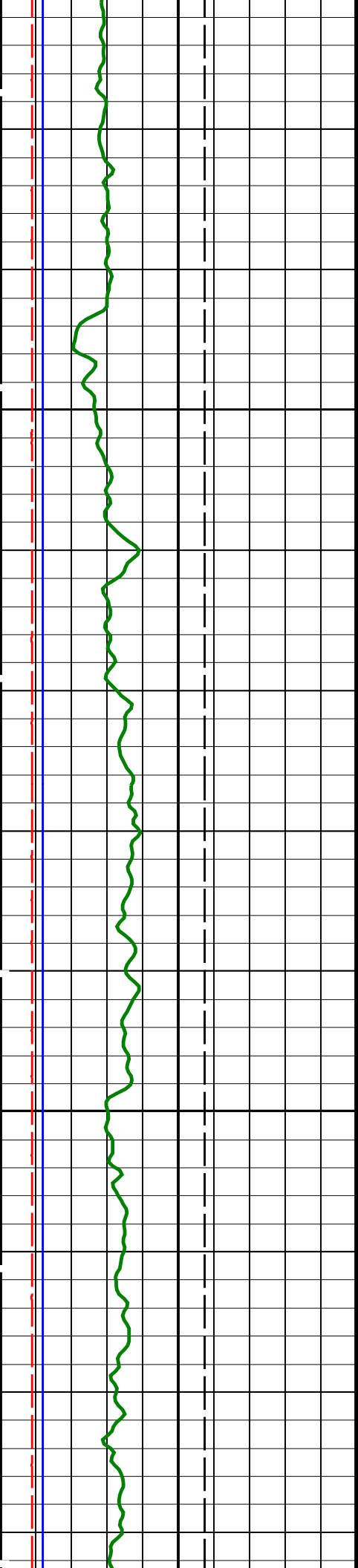
HNGS Spectroscopy Gamma Ray (HSGR)			
0	(GAPI)	100	
Caliper 2 (C2)			
0	(IN)	20	
Caliper 1 (C1)			
0	(IN)	20	
Bit Size (BS)		Tension (TENS) (LBF)	Sonic Velocity (SVEL) (M/S)
0	(IN)	0	1000
20		5000	6000
		Peak Coherence / RA – Upper Dipole (CHR2)	Delta-T Shear / RA – Upper Dipole (DT2R)
		0	300
		10	1200

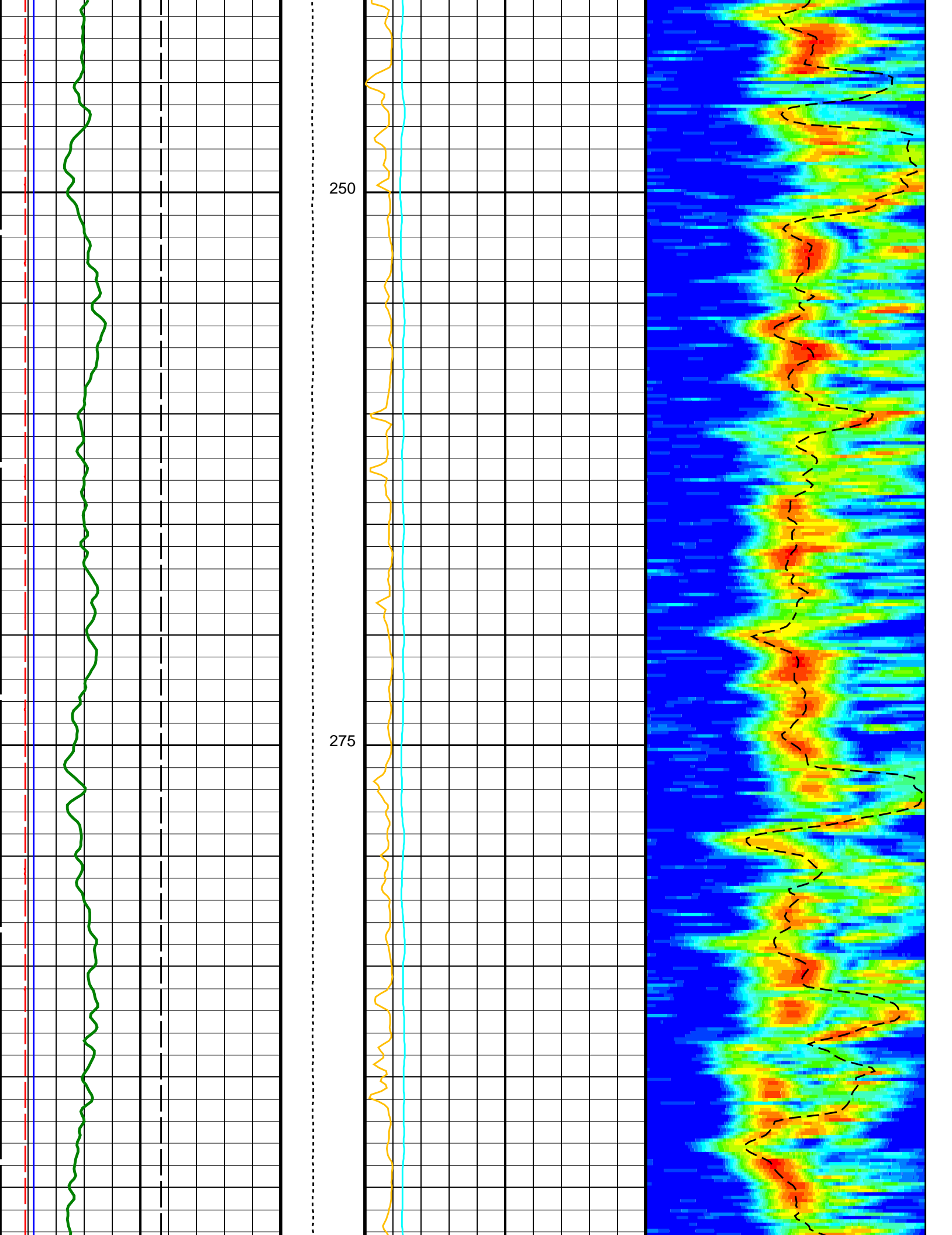


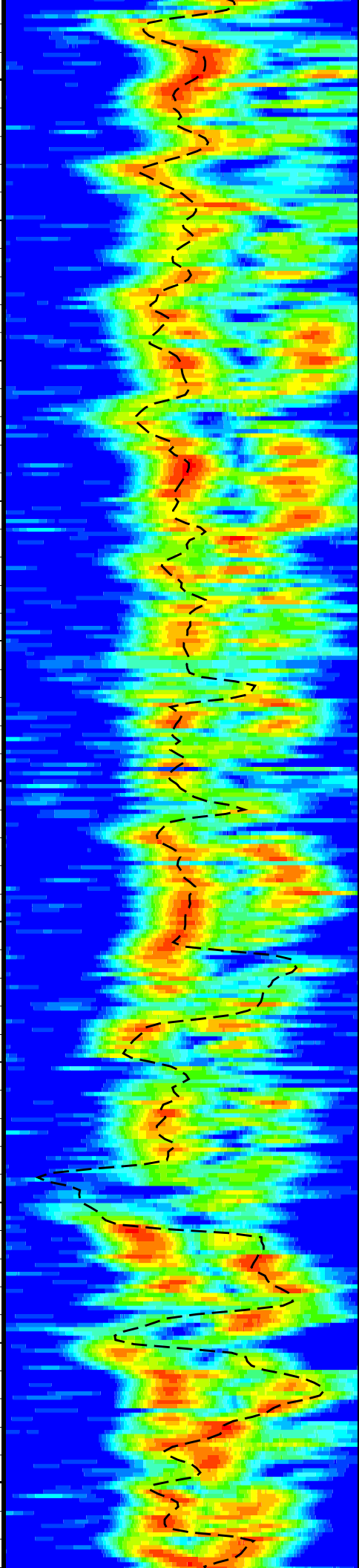
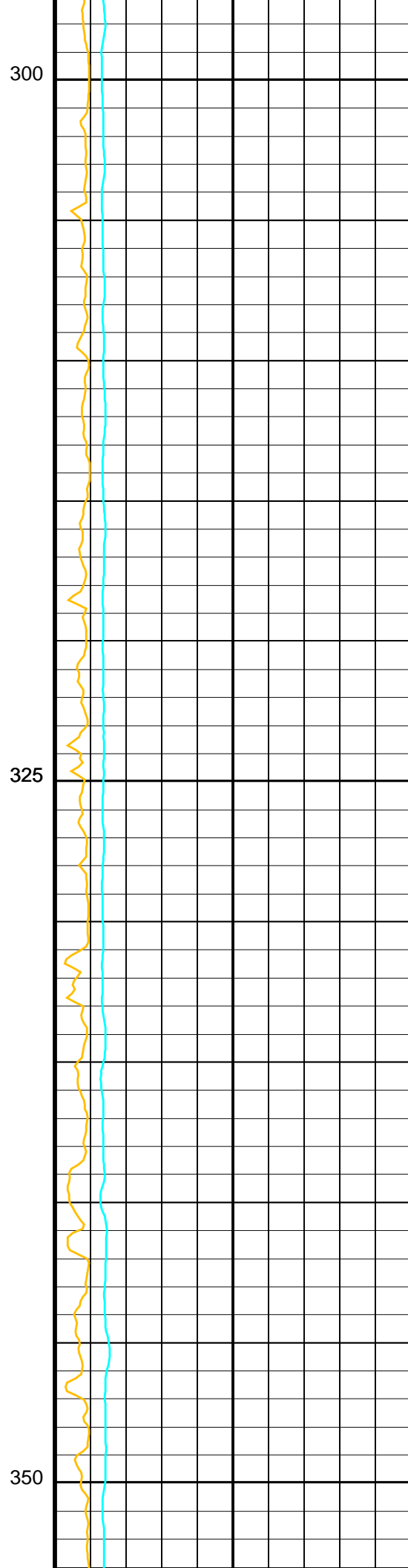
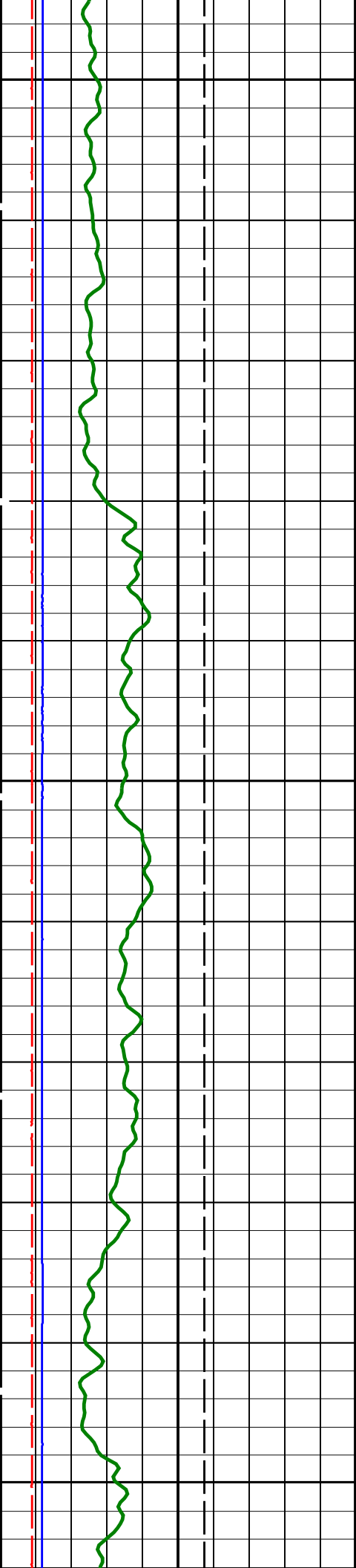


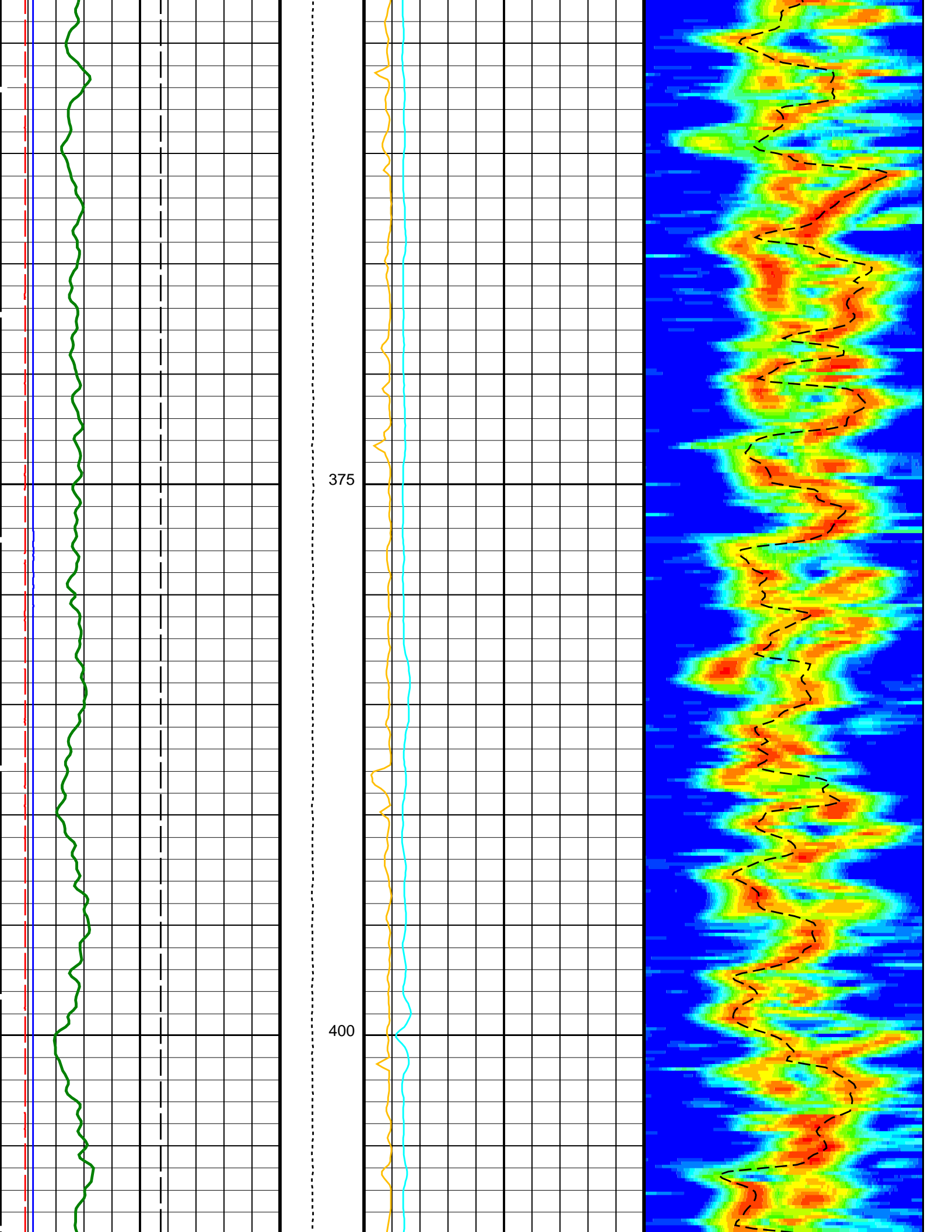


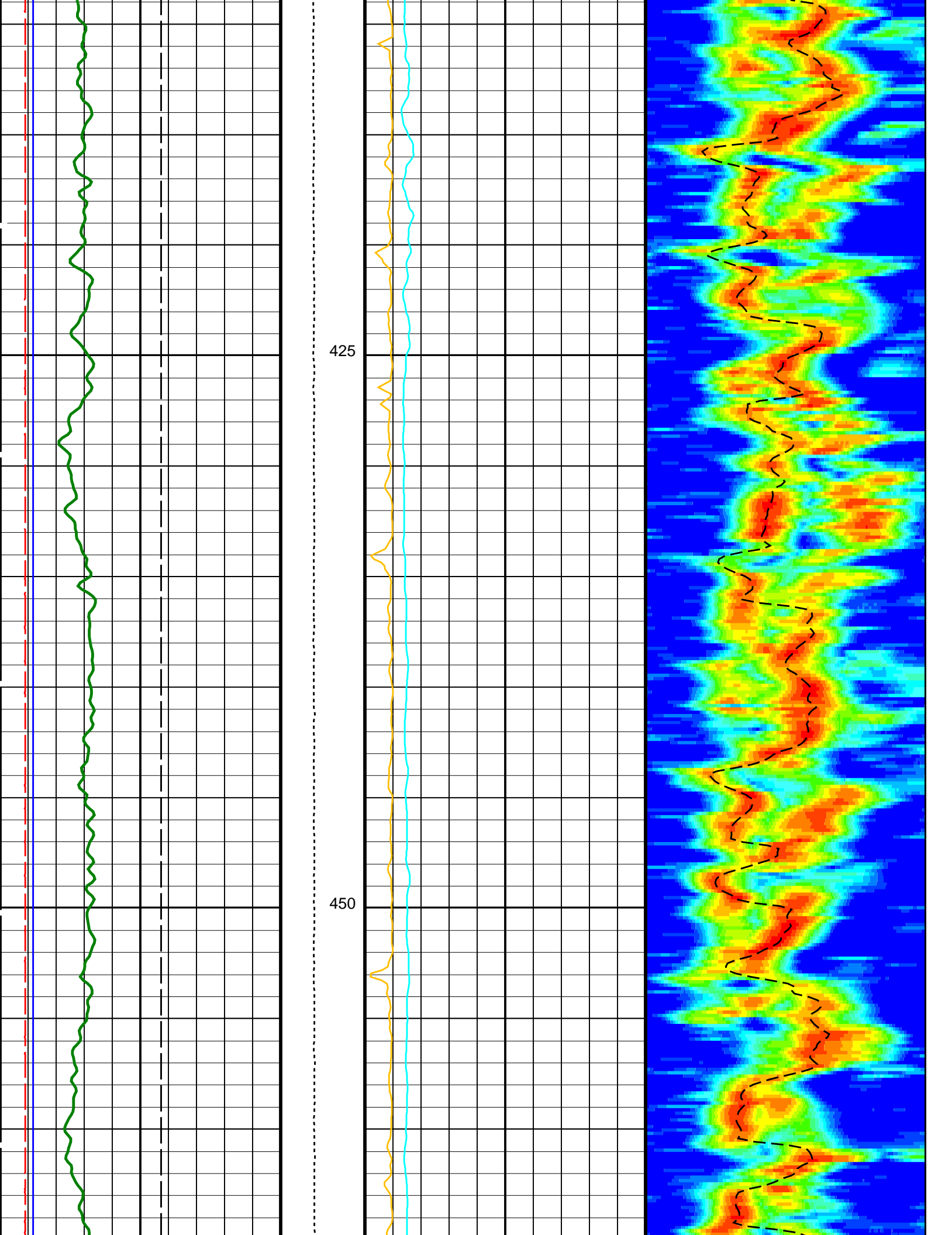


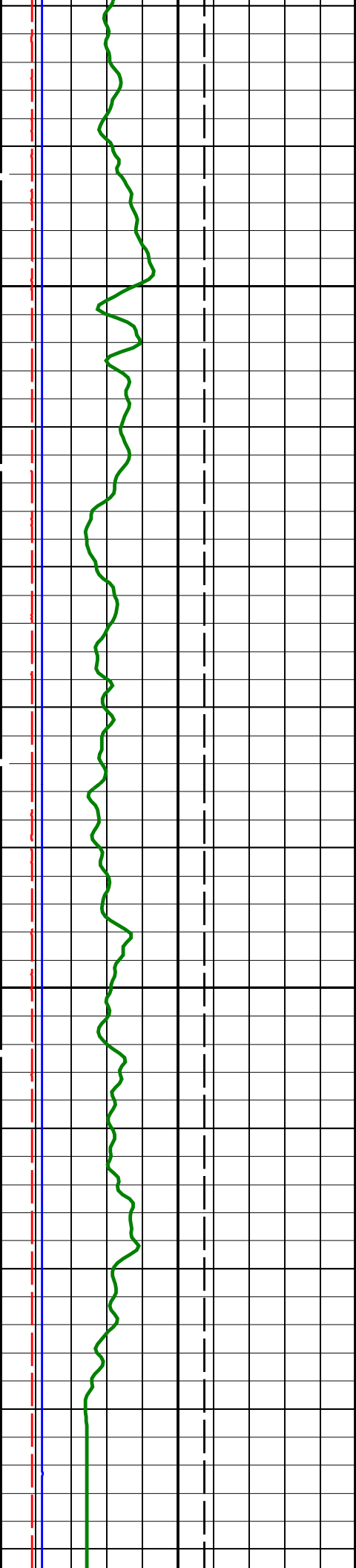






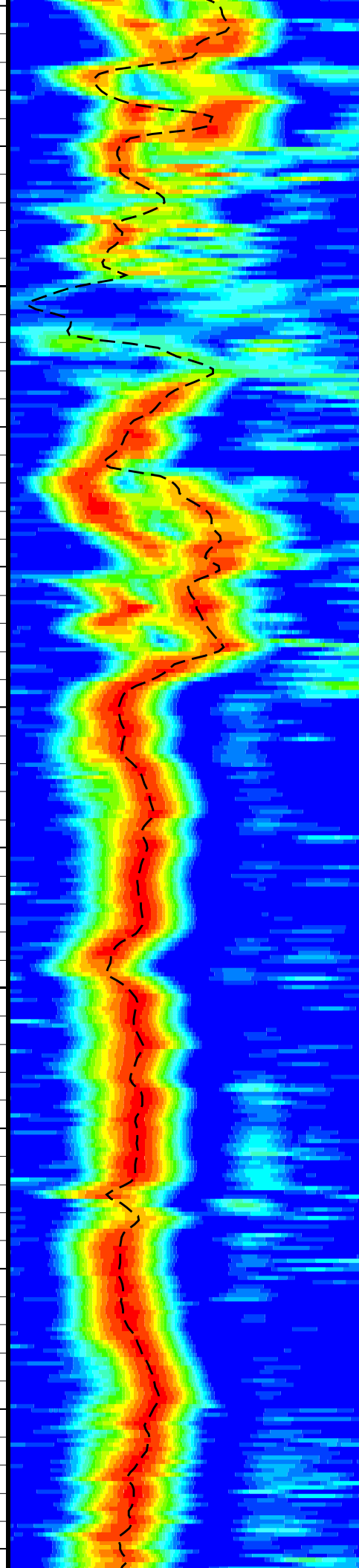
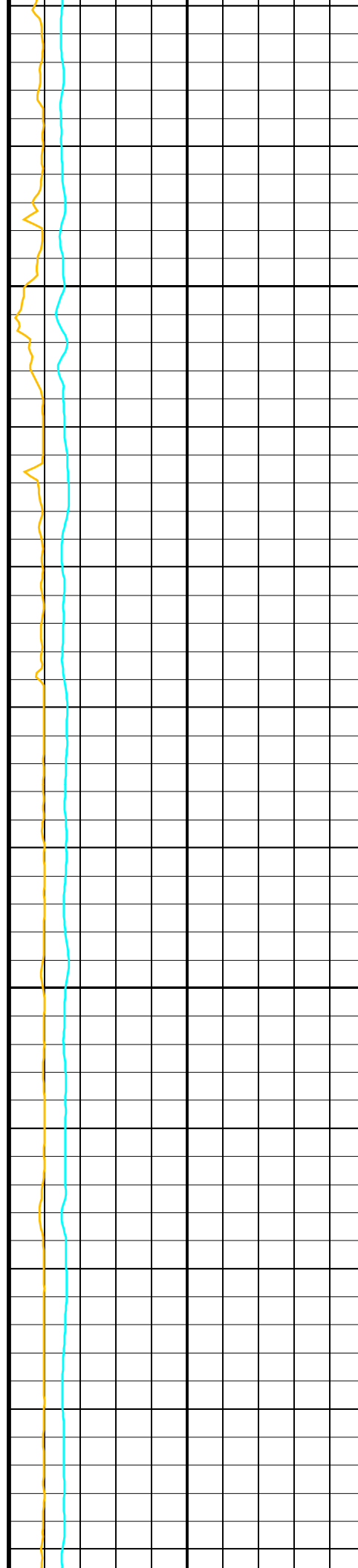


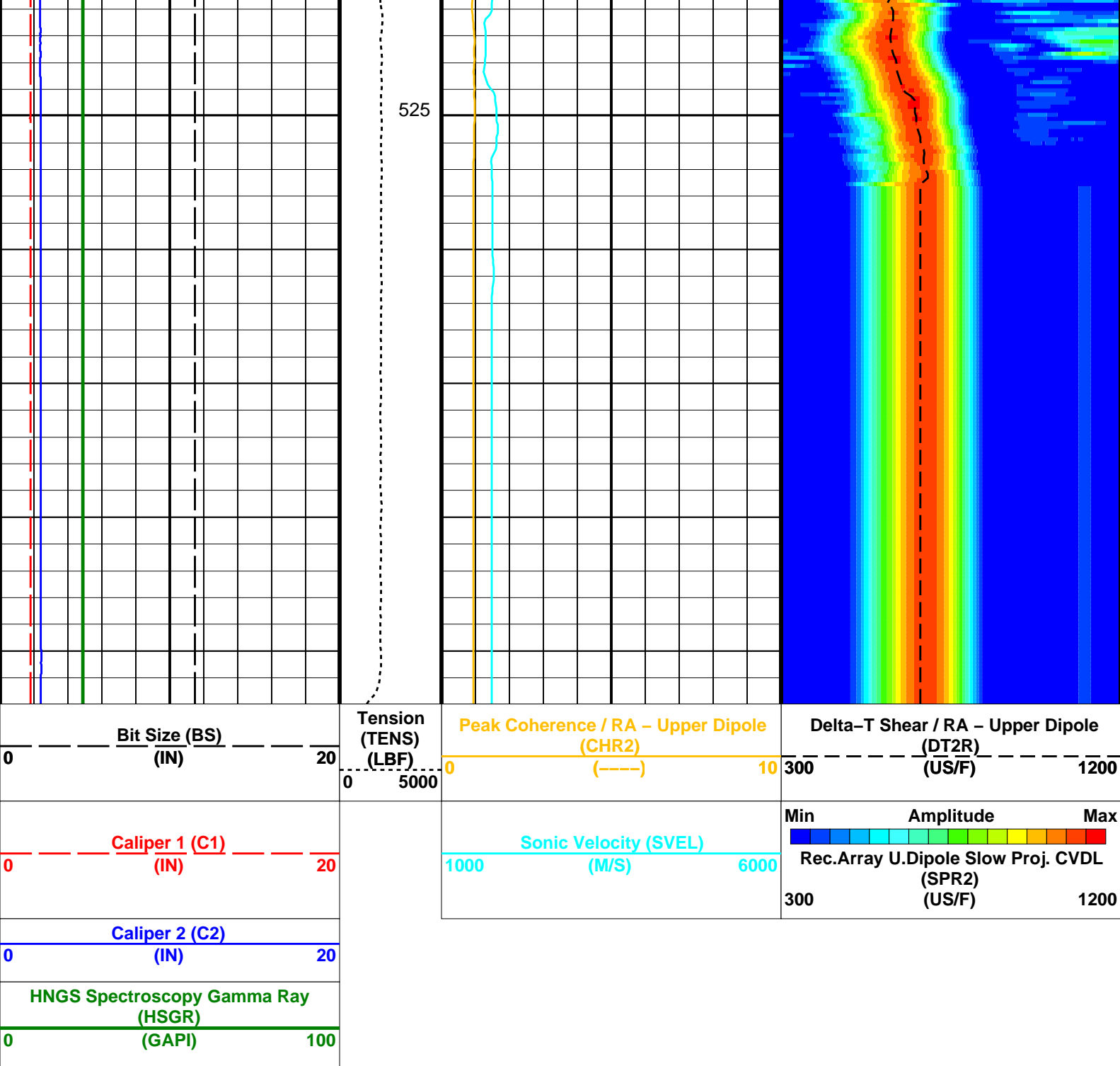




475

500





Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
DDE2	Digitizing Delay 2	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source - Dipole Shear	USE
DSHL	Label Slowness Lower Limit - Dipole Shear	300 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	1200 US/F
DSI2	Digitizer Sample Interval 2	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP
DWC2	Digitizer Word Count 2	512
DWCX	Digitizer Word Count X	512
GCSE	Generalized Caliper Selection	C1
NWI2	Number Waveform Items 2	8
NWIX	Number Waveform Items X	0
PX1C	Receiver 1 Geometry	204 IN

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	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B1–2K	
SLL2	STC Slowness Lower Limit – Upper Dipole	300	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit – Upper Dipole	1200	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL2	STC Time Lower Limit – Upper Dipole	2300	US
TST2	STC Time Step – Upper Dipole	200	US
TUL2	STC Time Upper Limit – Upper Dipole	20200	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
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	–0.098106	
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	–999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	–999.25	CPS
SGRC	HNGS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07049	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.06536	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	–339.4	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09–Sep–2013 13:33

OP System Version: 19C0–187

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

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_028LUP	PRODUCER	09–Sep–2013 12:27	886.4 M	290.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:45	PRODUCER	09–Sep–2013 13:33
CLIENT	FMS_DSI_NGS_037PUC	FN:46	CUSTOMER	09–Sep–2013 13:33

Input DLIS Files

DEFAULT	FMS_DSI_NGS_013LUP	FN:12	PRODUCER	08-Sep-2013 05:22	884.7 M	764.3 M
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Output DLIS Files

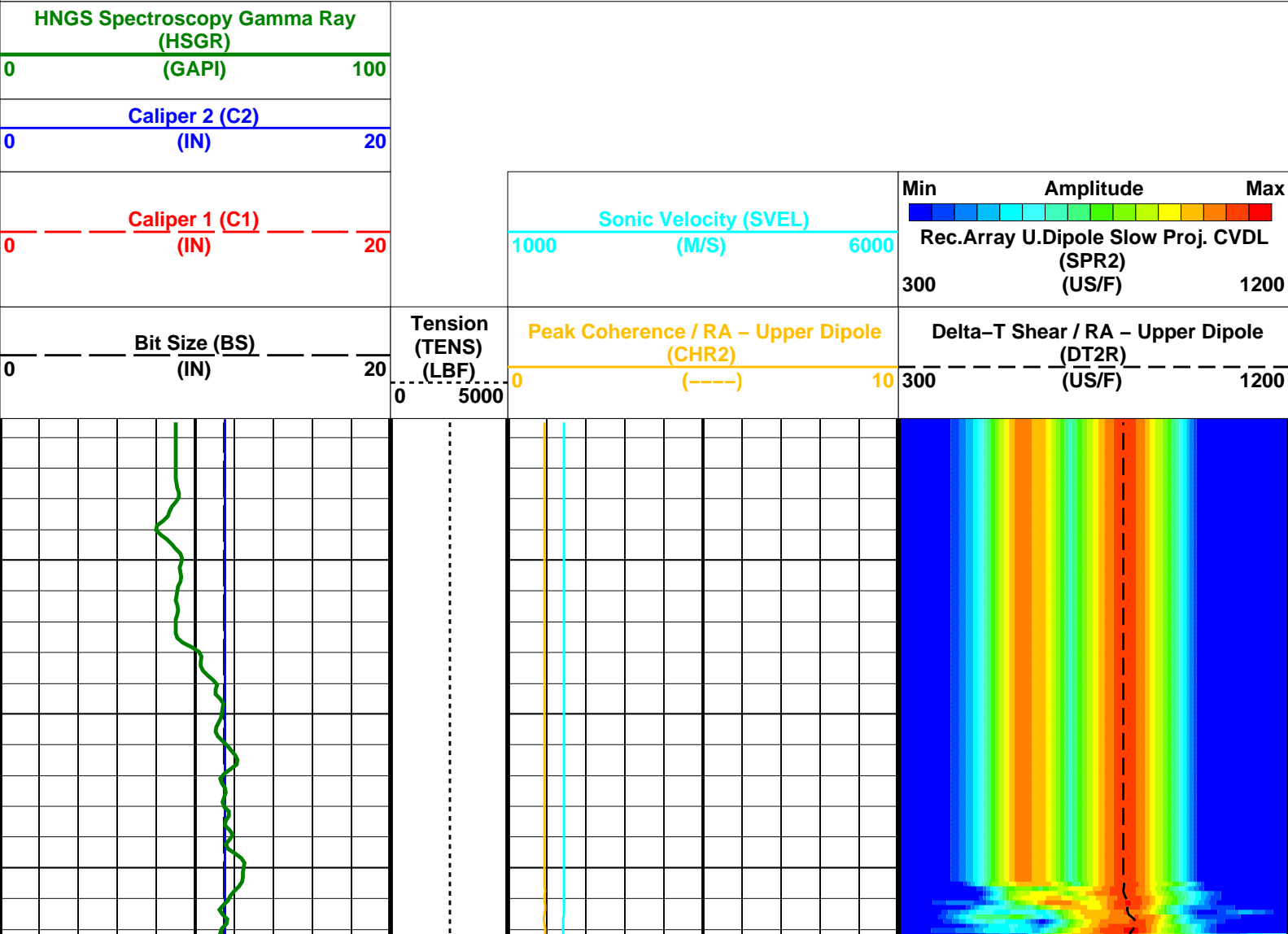
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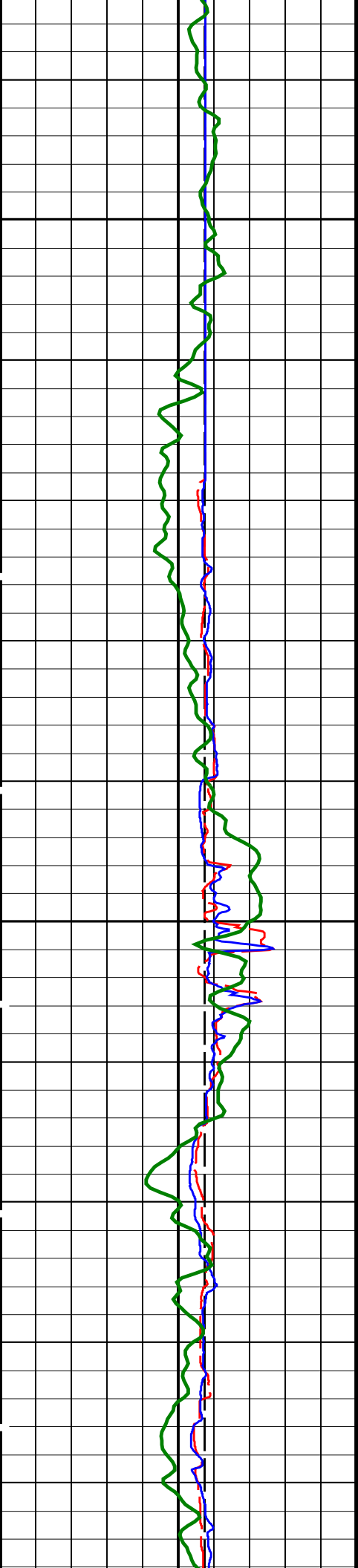
OP System Version: 19C0-187

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

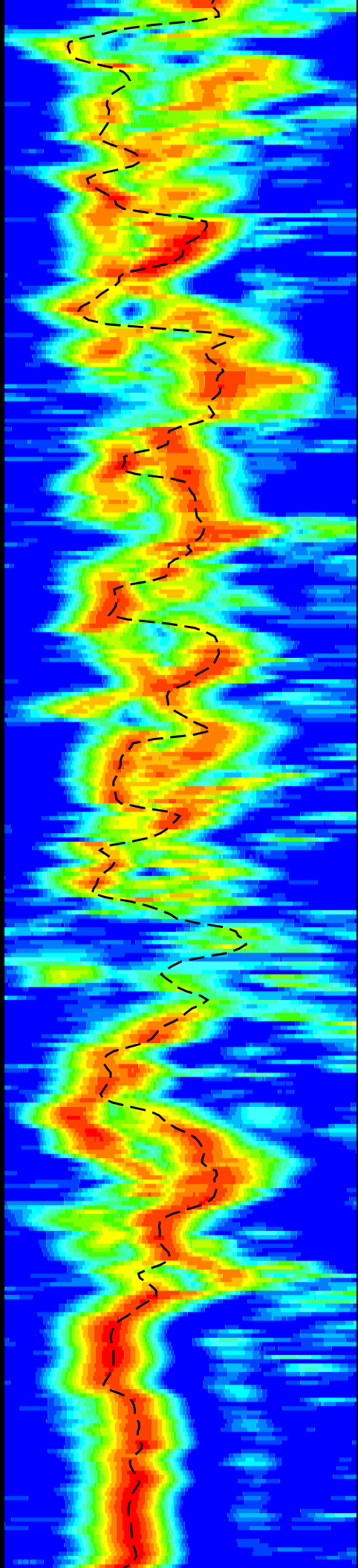
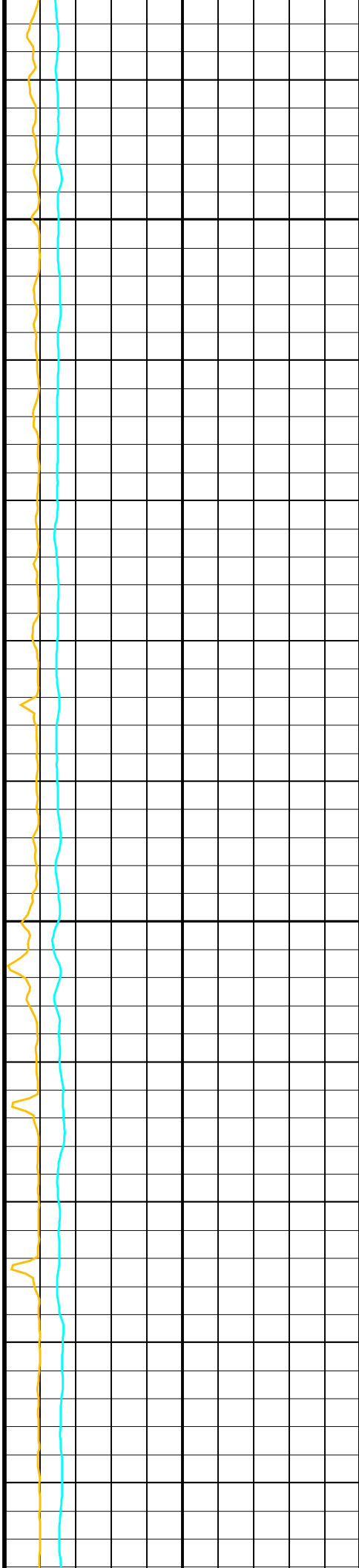
Time Mark Every 60 S

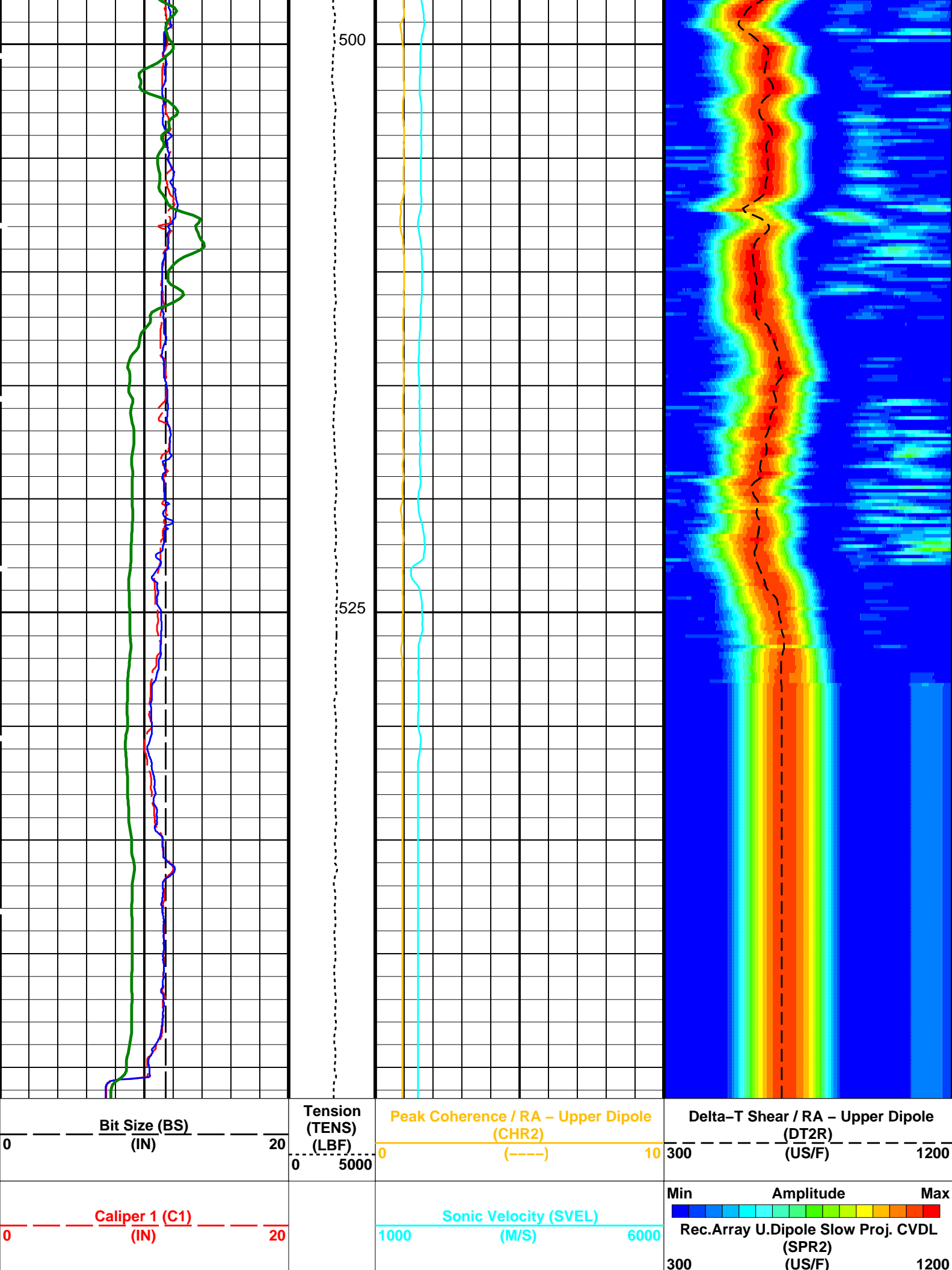




450

475





Caliper 2 (C2)		
0	(IN)	20
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	300	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1200	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
GCSE	Generalized Caliper Selection	C1	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B1–2K	
SLL2	STC Slowness Lower Limit – Upper Dipole	300	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit – Upper Dipole	1200	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL2	STC Time Lower Limit – Upper Dipole	2300	US
TST2	STC Time Step – Upper Dipole	200	US
TUL2	STC Time Upper Limit – Upper Dipole	20200	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
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	–0.0158577	
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	–999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	–999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01524	

VBA2	EDTC-B: Enhanced DTS Cartridge	HNGS Detector 2 Variable Barite Factor Running Average	1.02206	
BHS		Borehole Status	OPEN	
GCSE		Generalized Caliper Selection	C1	
	System and Miscellaneous			
BS		Bit Size	11.438	IN
DFD		Drilling Fluid Density	1.26	G/C3
DO		Depth Offset for Playback	-338.9	M
PP		Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR

Vertical Scale: 1:200

Graphics File Created: 09-Sep-2013 13:26

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_013LUP	FN:12	PRODUCER	08-Sep-2013 05:22	884.7 M	764.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:41	PRODUCER	09-Sep-2013 13:26		
CLIENT	FMS_DSI_NGS_035PUC	FN:42	CUSTOMER	09-Sep-2013 13:26		



Main Pass

1:200 Scale

MAXIS Field Log

Input DLIS Files

DEFAULT	FMS_DSI_NGS_014LUP	FN:13	PRODUCER	08-Sep-2013 05:44	884.7 M	292.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:39	PRODUCER	09-Sep-2013 13:23	546.4 M	-10.1 M
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OP System Version: 19C0-187

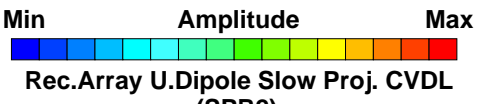
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

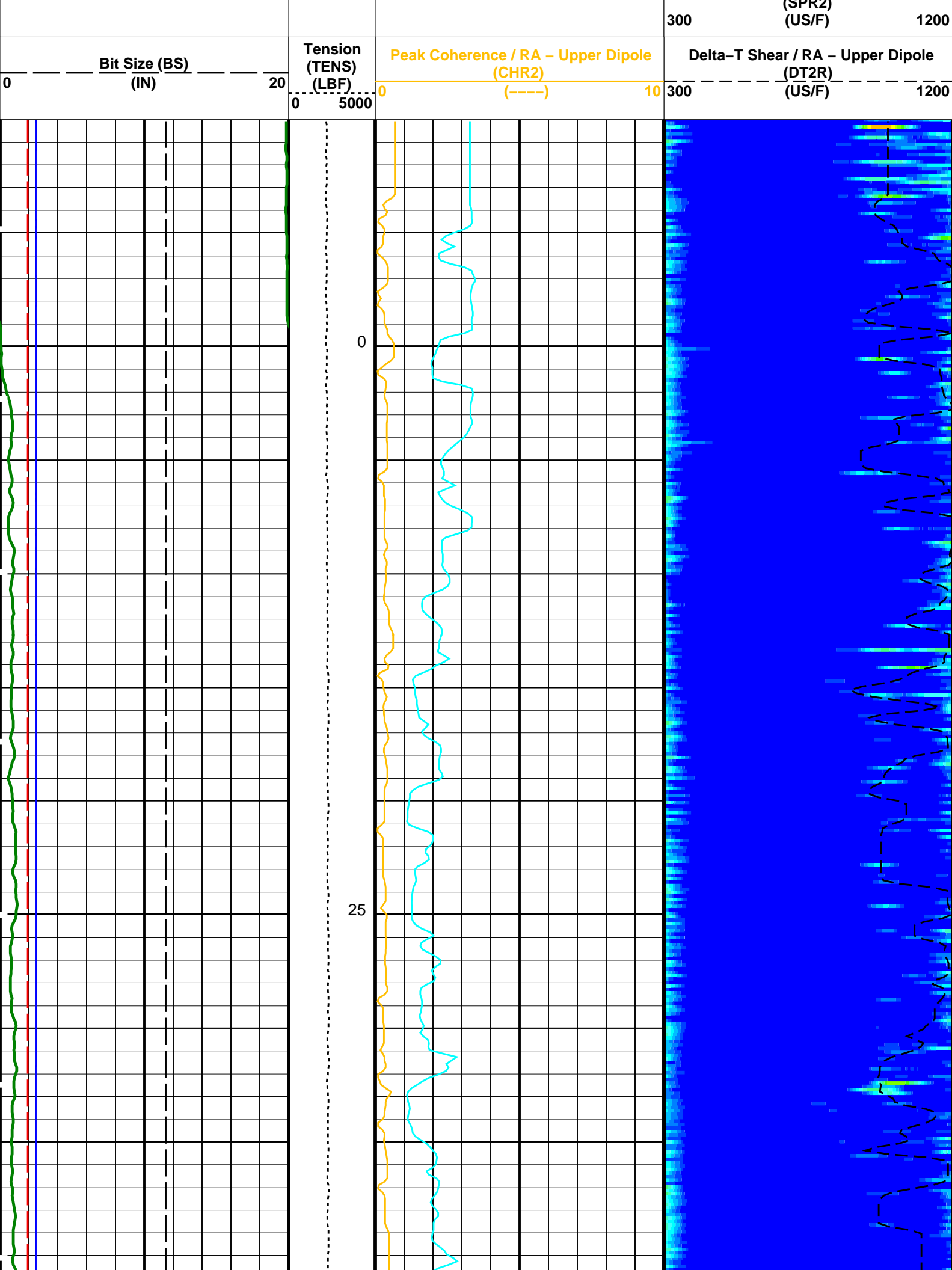
PIP SUMMARY

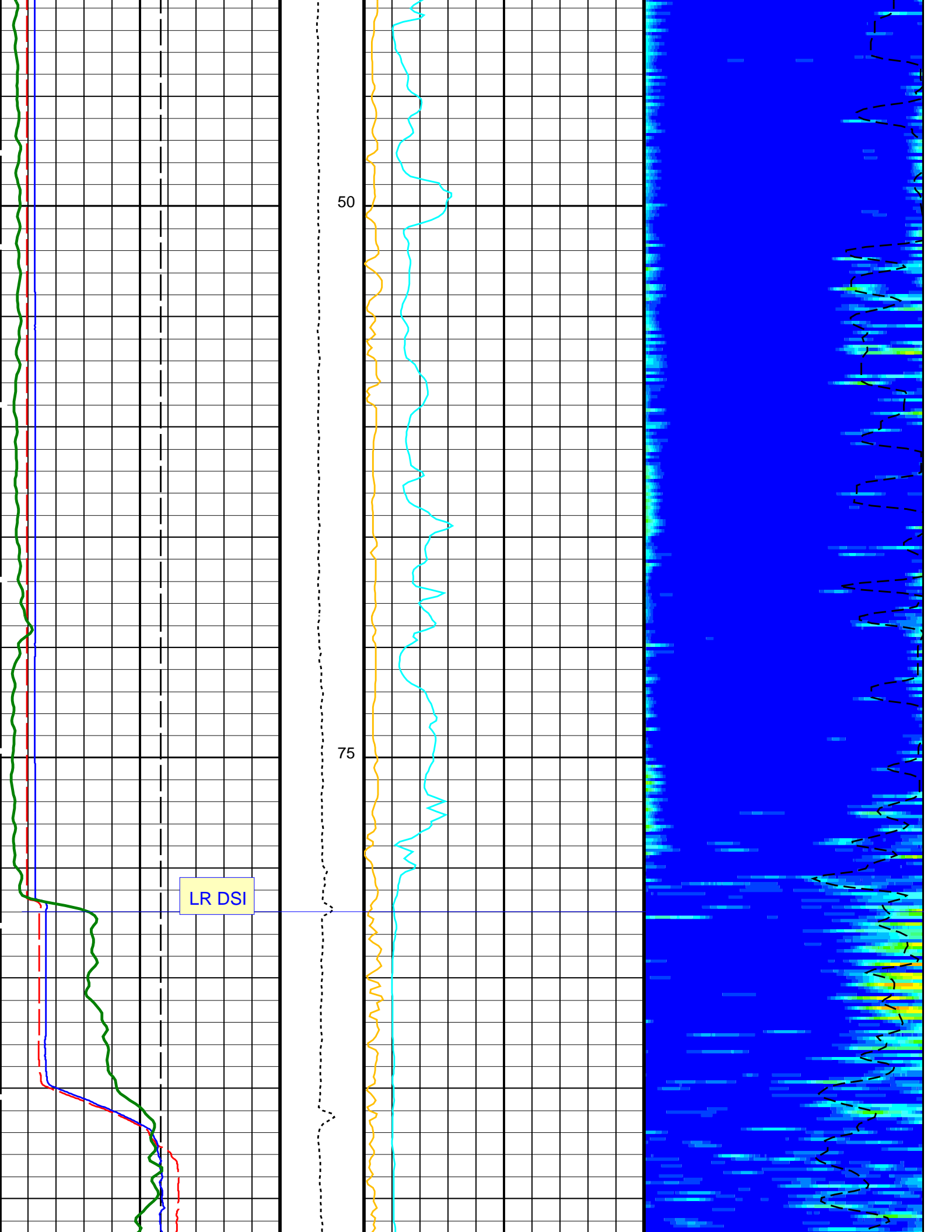
Time Mark Every 60 S

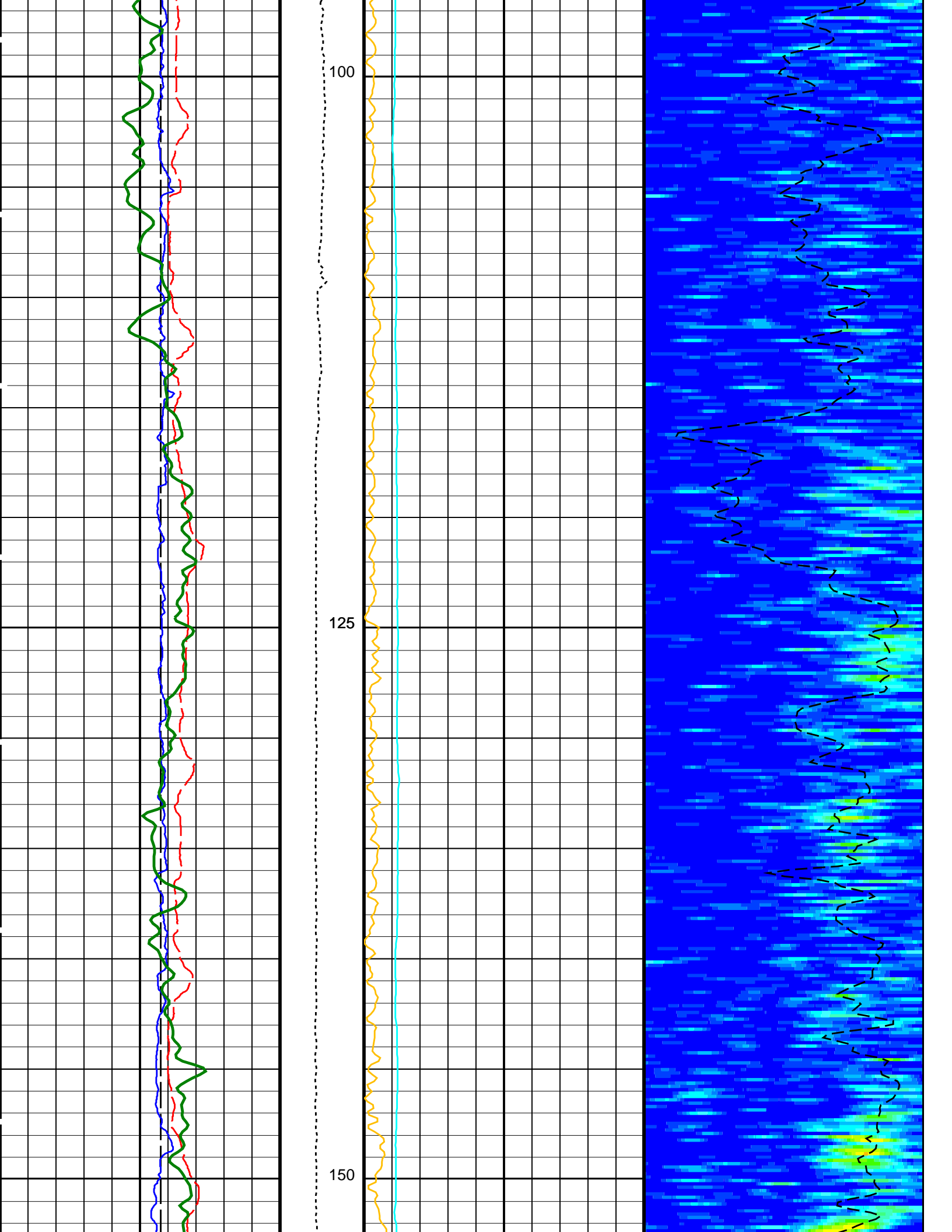
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100
Caliper 2 (C2)		
0	(IN)	20
Caliper 1 (C1)		
0	(IN)	20

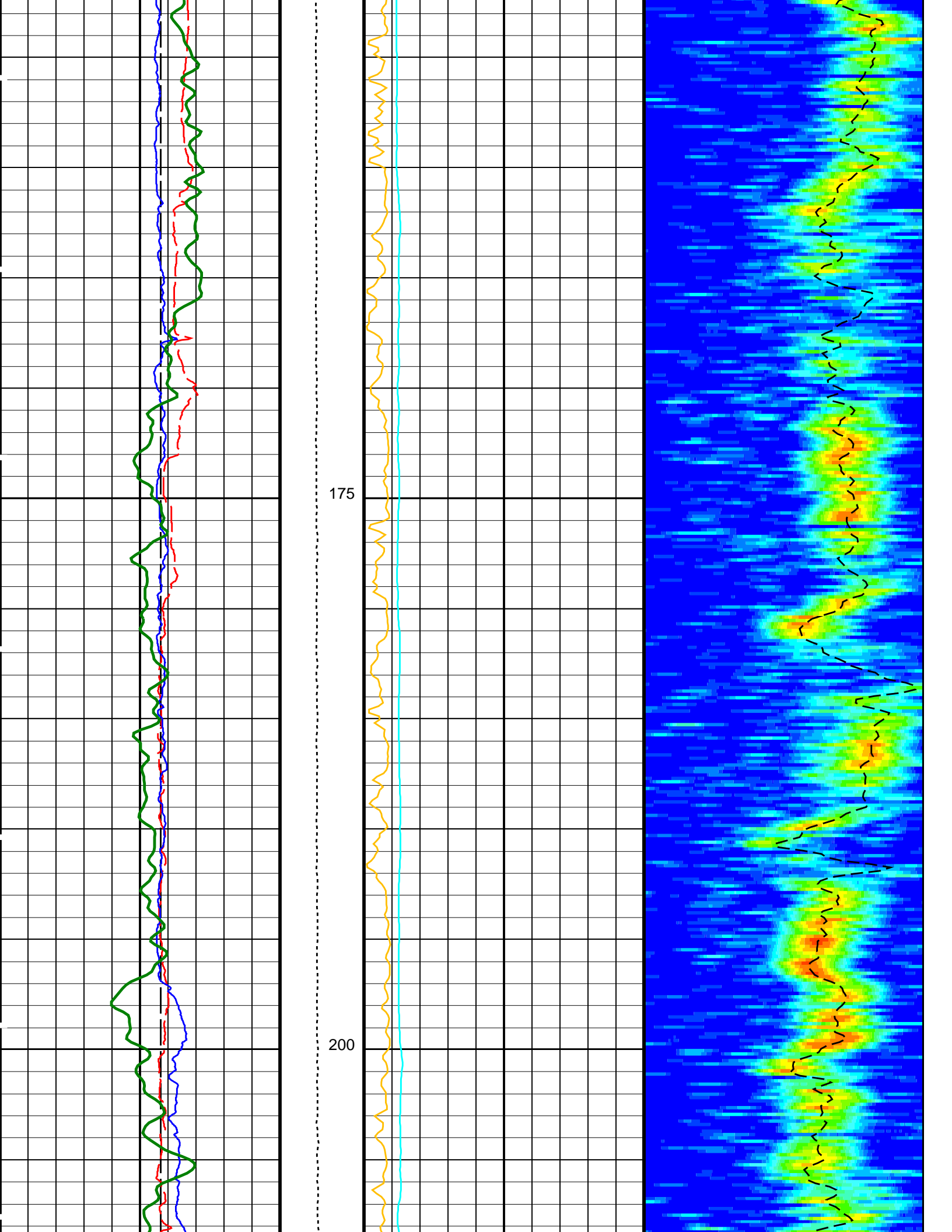
Sonic Velocity (SVEL)		
1000	(M/S)	6000

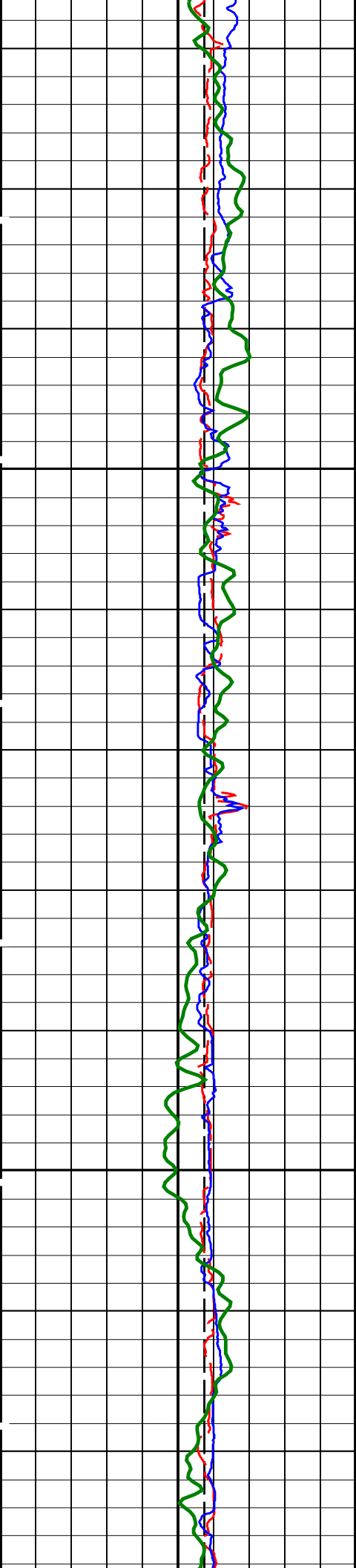






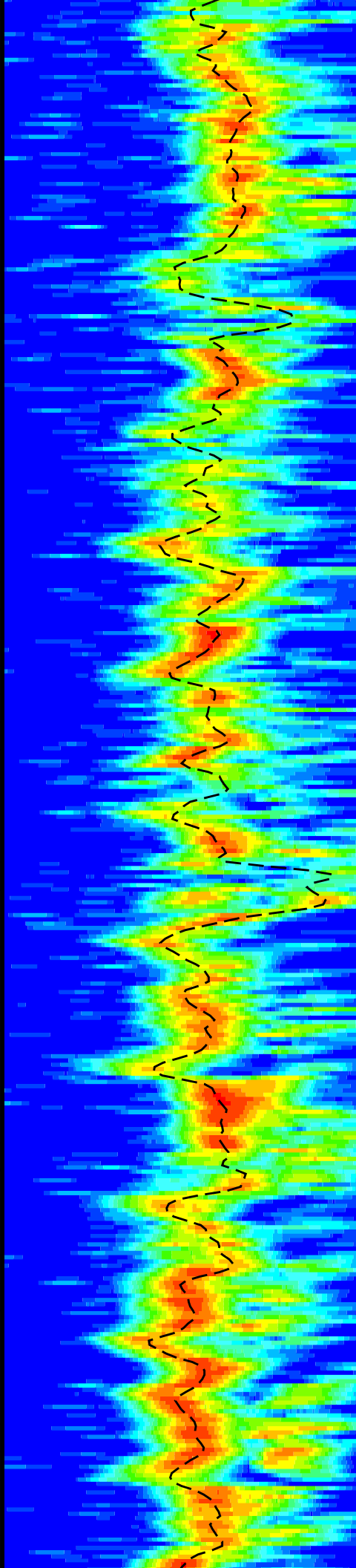
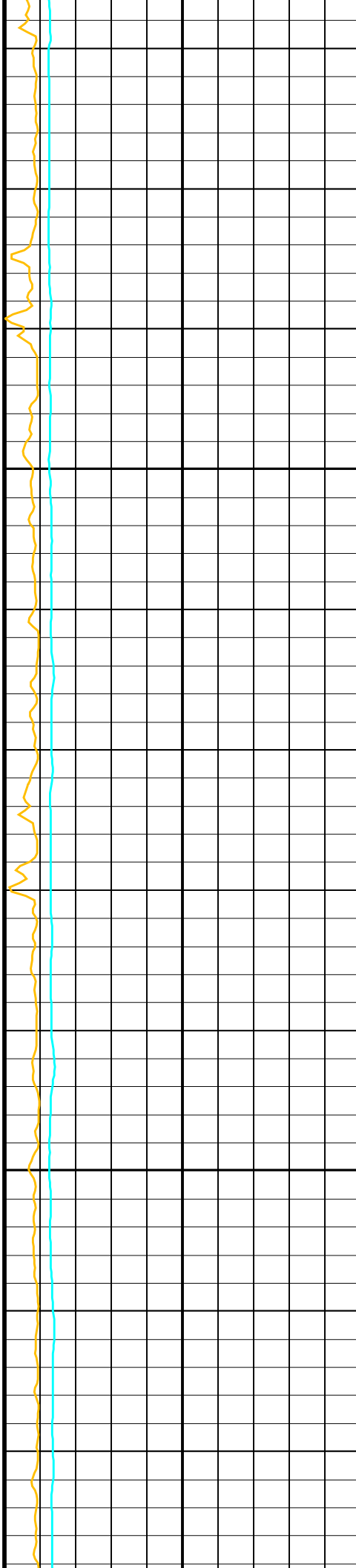


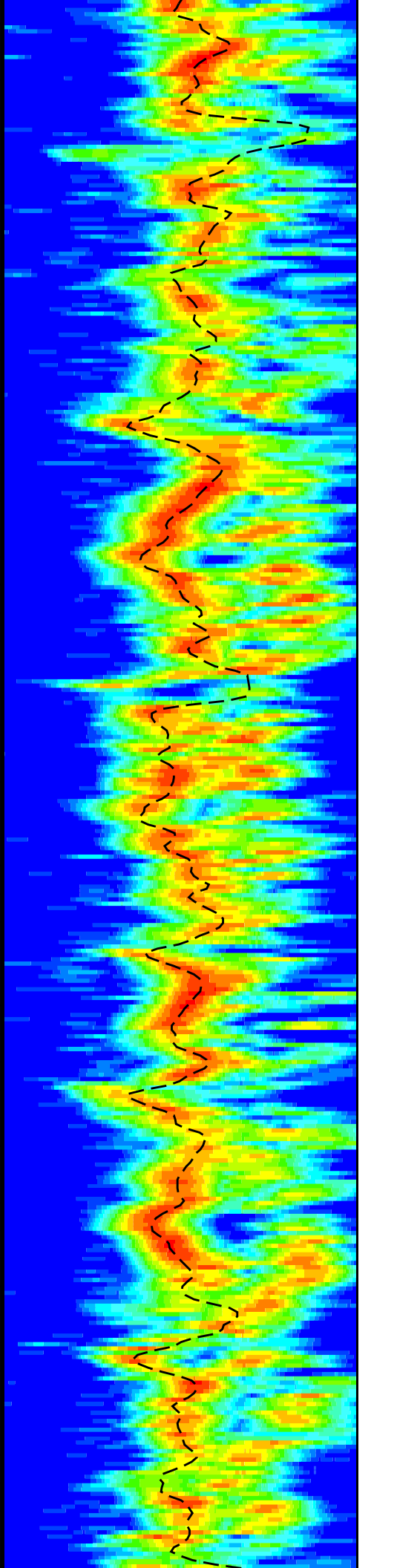
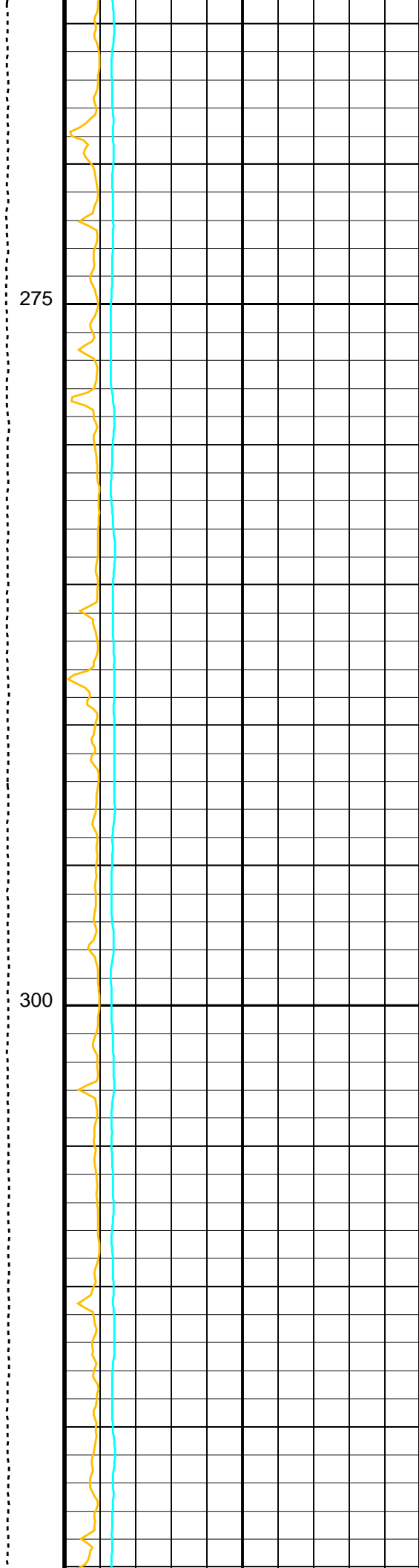
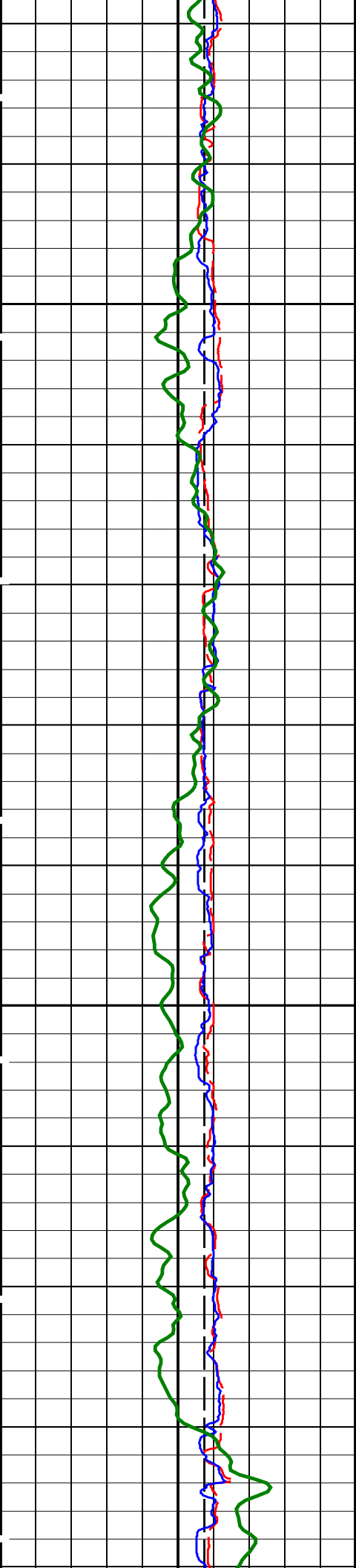


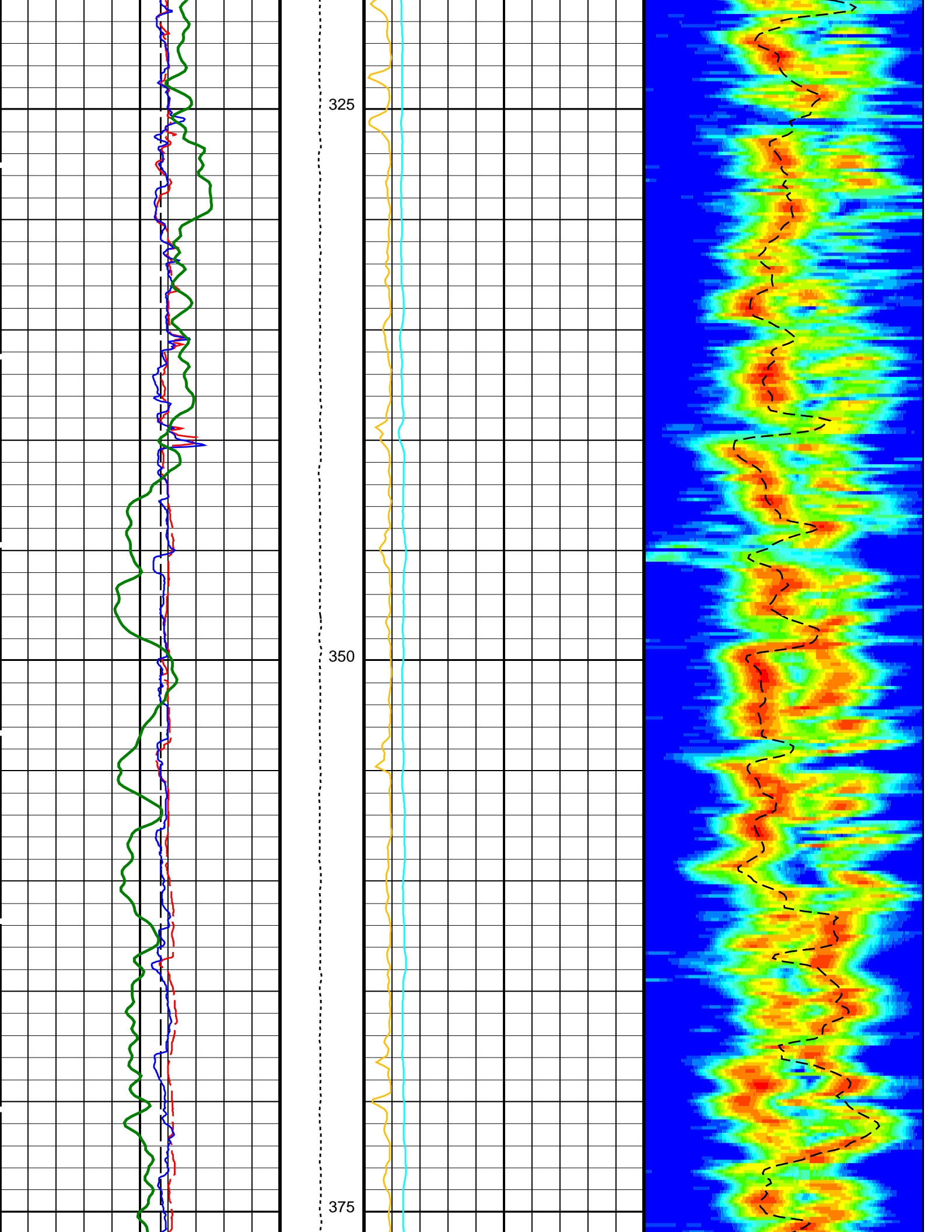


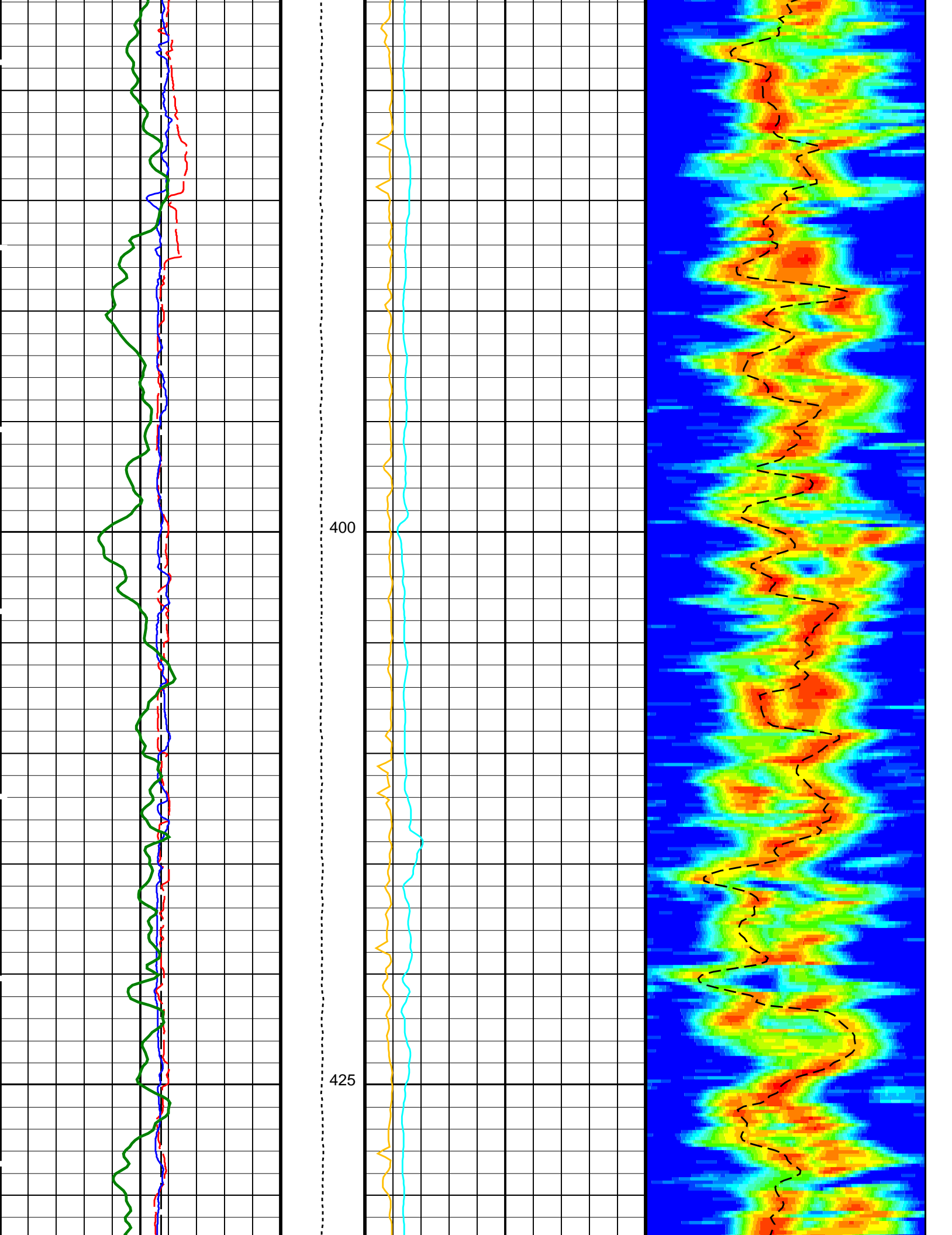
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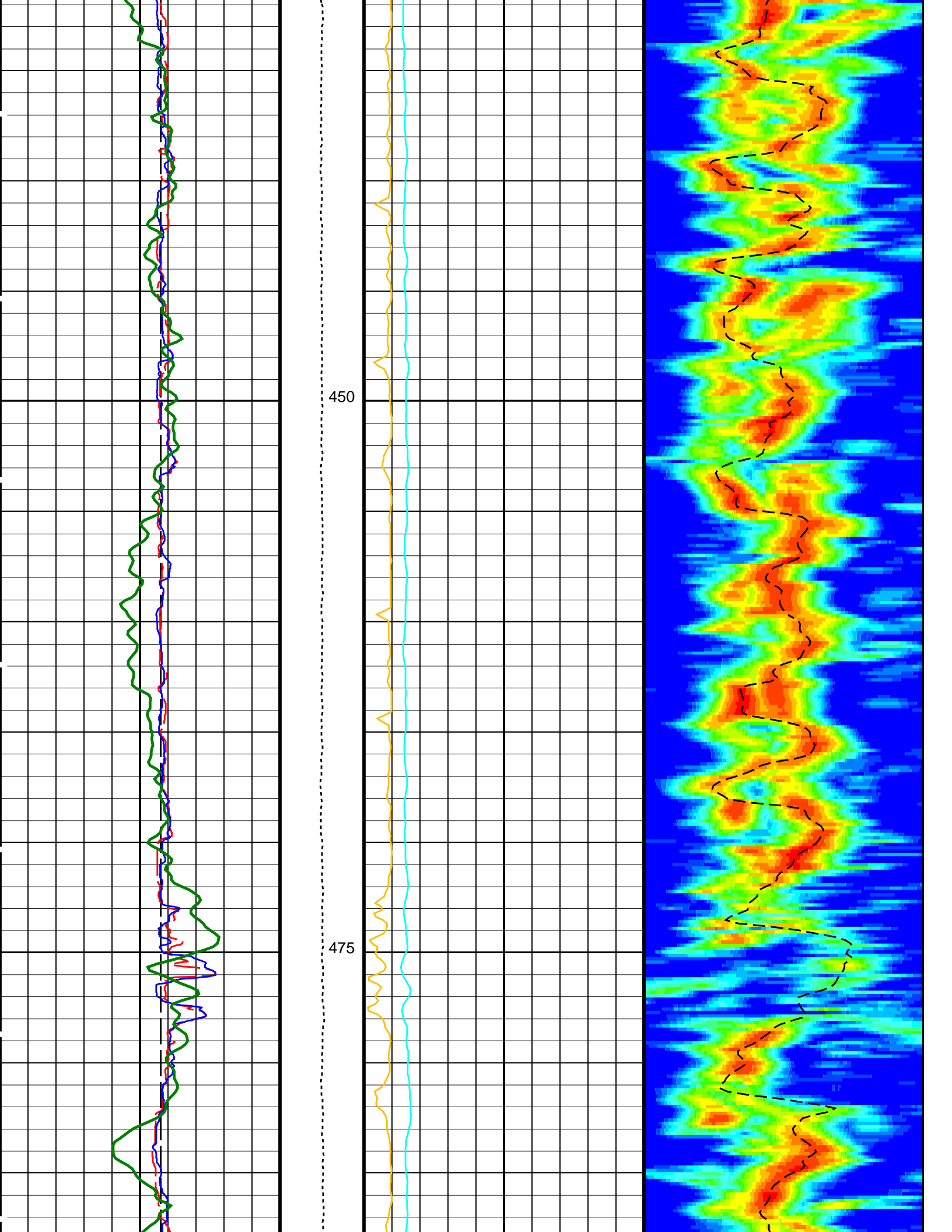
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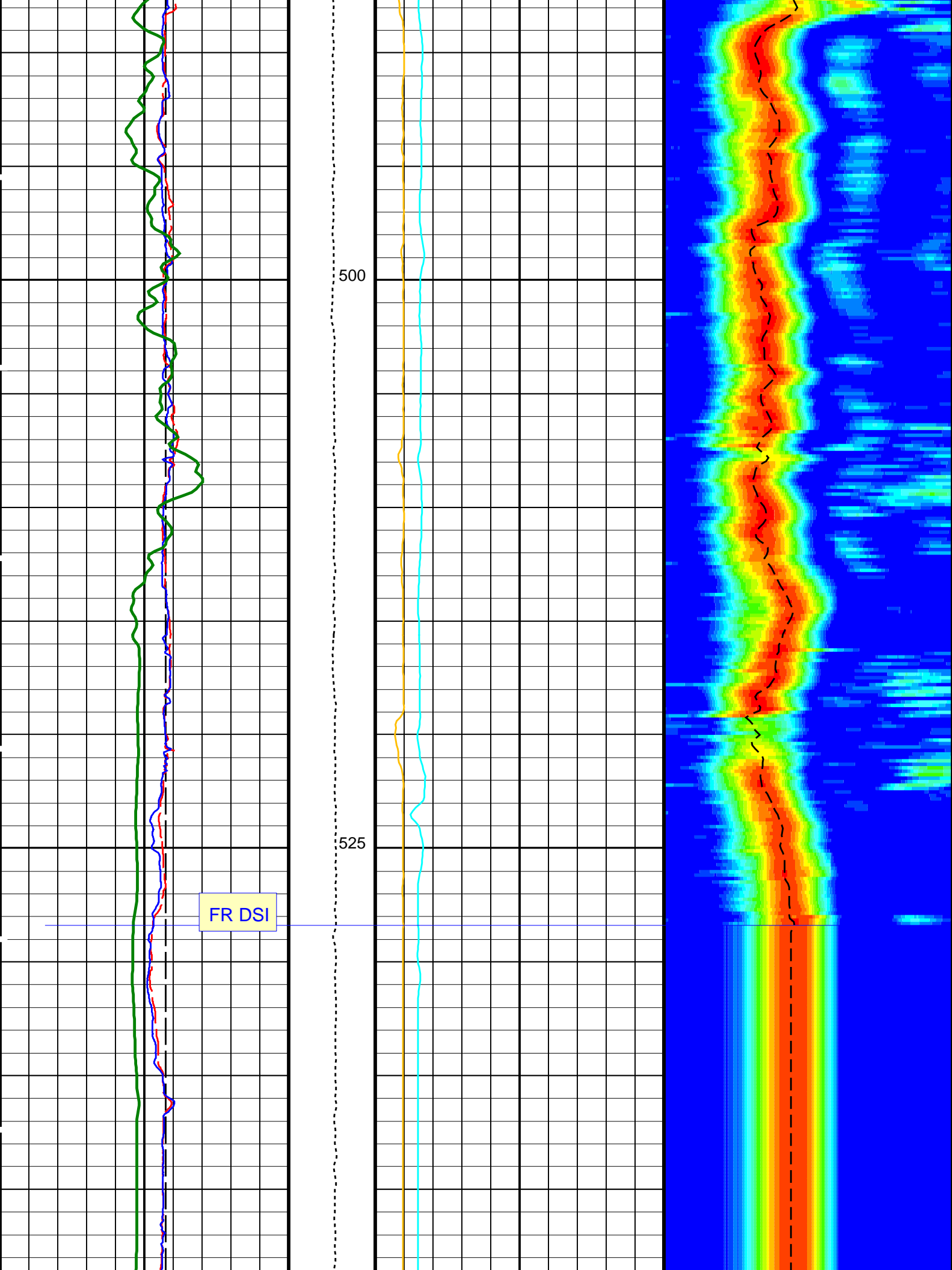


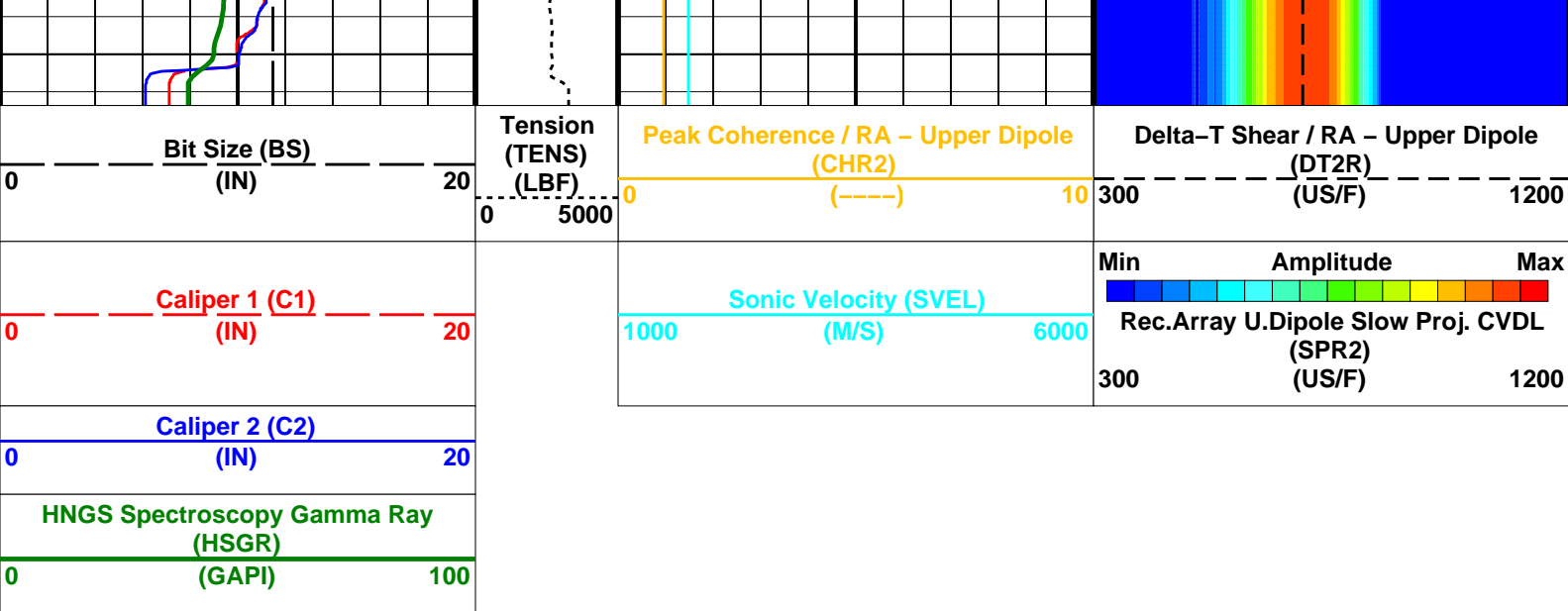












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DSST-B: Dipole Shear Imager – B			
BHS	Borehole Status	OPEN	
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	300	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	1200	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta–T Source for DTCO Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
GCSE	Generalized Caliper Selection	C1	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM2	STC Filter – Upper Dipole	B1–2K	
SLL2	STC Slowness Lower Limit – Upper Dipole	300	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit – Upper Dipole	1200	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL2	STC Time Lower Limit – Upper Dipole	2300	US
TST2	STC Time Step – Upper Dipole	200	US
TUL2	STC Time Upper Limit – Upper Dipole	20200	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
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	-0.014383	
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	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.99861	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00455	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-338.9	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09-Sep-2013 13:23

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	FMS_DSI_NGS_014LUP	FN:13	PRODUCER	08-Sep-2013 05:44	884.7 M	292.3 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:39	PRODUCER	09-Sep-2013 13:23
CLIENT	FMS_DSI_NGS_034PUC	FN:40	CUSTOMER	09-Sep-2013 13:23

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52							
Na 511 Peak Loc	40.00	39.74	39.66	39.66	-0.001842	1.000	
Na 511 Peak Res	15.50	15.31	14.99	15.59	0.6071	2.000	%
High Voltage	1150	1168	1175	1177	1.875	N/A	V
Na 1785 Peak Loc	142.6	142.6	141.1	143.1	1.995	7.000	
Na 1785 Peak Res	8.500	9.002	8.739	8.350	-0.3891	2.000	%
Temperature	15.50	21.46	30.66	29.21	-1.452	N/A	DEGC
Na Count Rate	45.00	15.10	12.22	12.96	0.7358	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check
Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52

Na 511 Peak Loc	40.00	39.58	39.50	39.79	0.2864	1.000	
Na 511 Peak Res	15.50	16.04	16.51	15.30	-1.204	2.000	%
High Voltage	1150	1093	1109	1110	1.251	N/A	V
Na 1785 Peak Loc	142.6	141.7	143.1	142.4	-0.7710	7.000	
Na 1785 Peak Res	8.500	9.499	8.731	9.377	0.6464	2.000	%
Temperature	15.50	21.65	30.81	30.84	0.03577	N/A	DEGC
Na Count Rate	45.00	14.93	12.29	12.87	0.5788	8.000	CPS

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

Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52

Coincidence Count Rate Ratio	1.000	1.015	0.9928	1.007	0.01398	0.05000	
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Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 30-Aug-2013 3:44

EDTC Z-Axis Acceleration	9.810	N/A	9.794	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 30-Aug-2013 3:38

Gamma Ray (Jig – Bkg)	204.1	N/A	204.1	N/A	N/A	18.55	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Litho-Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:

LDSC Cartridge

LDSC – B 326

Auxiliary Equipment:

LDSC Housing

LDSH – A 303

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge

HNGC – B 300

Auxiliary Equipment:

HNGC Housing

HNGH – A 115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde

HNGS – BA 194

Auxiliary Equipment:

HNGS Sonde Housing

HNSH – BA 205


Gamma Source Radioactive

GSR – U 616008




Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.74	Master		15.31	Master		1168
Before		39.66	Before		14.99	Before		1175
After		39.66	After		15.59	After		1177
	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		142.6	Master		9.002	Master		21.46
Before		141.1	Before		8.739	Before		30.66
After		143.1	After		8.350	After		29.21
	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		15.10						
Before		12.22						

After		12.96
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	
Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52		

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			39.58	Master			16.04	Master			1093
Before			39.50	Before			16.51	Before			1109
After			39.79	After			15.30	After			1110
37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)				12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)				900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)			
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master			141.7	Master			9.499	Master			21.65
Before			143.1	Before			8.731	Before			30.81
After			142.4	After			9.377	After			30.84
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			14.93								
Before			12.29								
After			12.87								
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)											
Master: 29-Jul-2013 20:46				Before: 30-Aug-2013 3:43				After: 30-Aug-2013 9:52			

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.015
Before		0.9928
After		1.007
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 29-Jul-2013 20:46		
Before: 30-Aug-2013 3:43		
After: 30-Aug-2013 9:52		

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:


EDTC Gamma Ray Detector
Enhanced DTS Cartridge




EDTG - A/B 8305
EDTC - B 8317

Auxiliary Equipment:

EDTC Housing

EDTH - B 8303

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.794
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 30-Aug-2013 3:44		

Enhanced DTS Cartridge Wellsite Calibration								
Detector Calibration								
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		1.864	Before		204.1	Before		165.0

0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	185.5 (Minimum)	204.1 (Nominal)	222.7 (Maximum)	150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: 30-Aug-2013 3:38								

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 346, Site U1427A**

Field: **Asian Monsoon**

Rig: **JOIDES Resolution**

Country: **USA**

DSI Sonic
Upper Dipole