



Company: Lamont Doherty Earth Observatory

Well: Expedition 352, Site U1442A

Field: IBM-3 Forearc

Rig: JOIDES Resolution Country:

DSI Dipole Sonic Imager
Upper Dipole

JOIDES Resolution
IBM-3 Forearc
Latitude: N 28.40964*
Expedition 352, Site U1442A
Lamont Doherty Earth Observatory

LOCATION	Latitude: N 28.40964* Longitude: E 142.62228*	Elev.: K.B. -3173.00 m G.L. 0.00 m D.F. -3173.00 m
	Permanent Datum: Sea Floor Log Measured From: Drill Floor Drilling Measured From: Drill Floor	Elev.: -3173.00 m 3173.00 m above Perm. Datum
	Ocean: Pacific Max. Well Deviation: 0 deg	Longitude: E 142.62228 Latitude: N 28.40964

Logging Date	23-Sep-2014		
Run Number	2		
Depth Driller	529.8 m		
Schlumberger Depth	284.5 m		
Bottom Log Interval	265 m		
Top Log Interval	79.3 m		
Casing Driller Size @ Depth	5.500 in @ 96.5 m		
Casing Schlumberger	96.5 m		
Bit Size	9.875 in		
Type Fluid In Hole	Sepiolite		
MUD Density	Viscosity	1.03 g/cm3	
MUD Fluid Loss	PH		
Source Of Sample		N/A	
RM @ Measured Temperature		@	@
RMF @ Measured Temperature		@	@
RMC @ Measured Temperature		@	@
Source RMF	RMC	N/A	N/A
RM @ MRT	RMF @ MRT	@ 7	@ 7
Maximum Recorded Temperatures		7 degC	
Circulation Stopped	Time	23-Sep-2014	3:00
Logger On Bottom	Time	23-Sep-2014	23:00
Unit Number	Location	627314	Houston
Recorded By		C. Furman	
Witnessed By		S. Morgan	

	Run 1	Run 2	R
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth		@	
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density			
MUD Viscosity			
MUD Fluid Loss			
MUD PH			
Source Of Sample			
RM @ Measured Temperature		@	
RMF @ Measured Temperature		@	
RMC @ Measured Temperature		@	
Source RMF			
RMC			
RM @ MRT		@	@
RMF @ MRT		@	@
Maximum Recorded Temperatures			
Circulation Stopped			
Time			
Logger On Bottom			
Time			
Unit Number			
Location			
Recorded By			
Witnessed By			

DISCLAIMER

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OTHER SERVICES1
 OS1: HNGS
 OS2: HRLA/HLDS
 OS3: FMS
 OS4: MSS

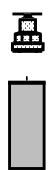
REMARKS: RUN NUMBER 1

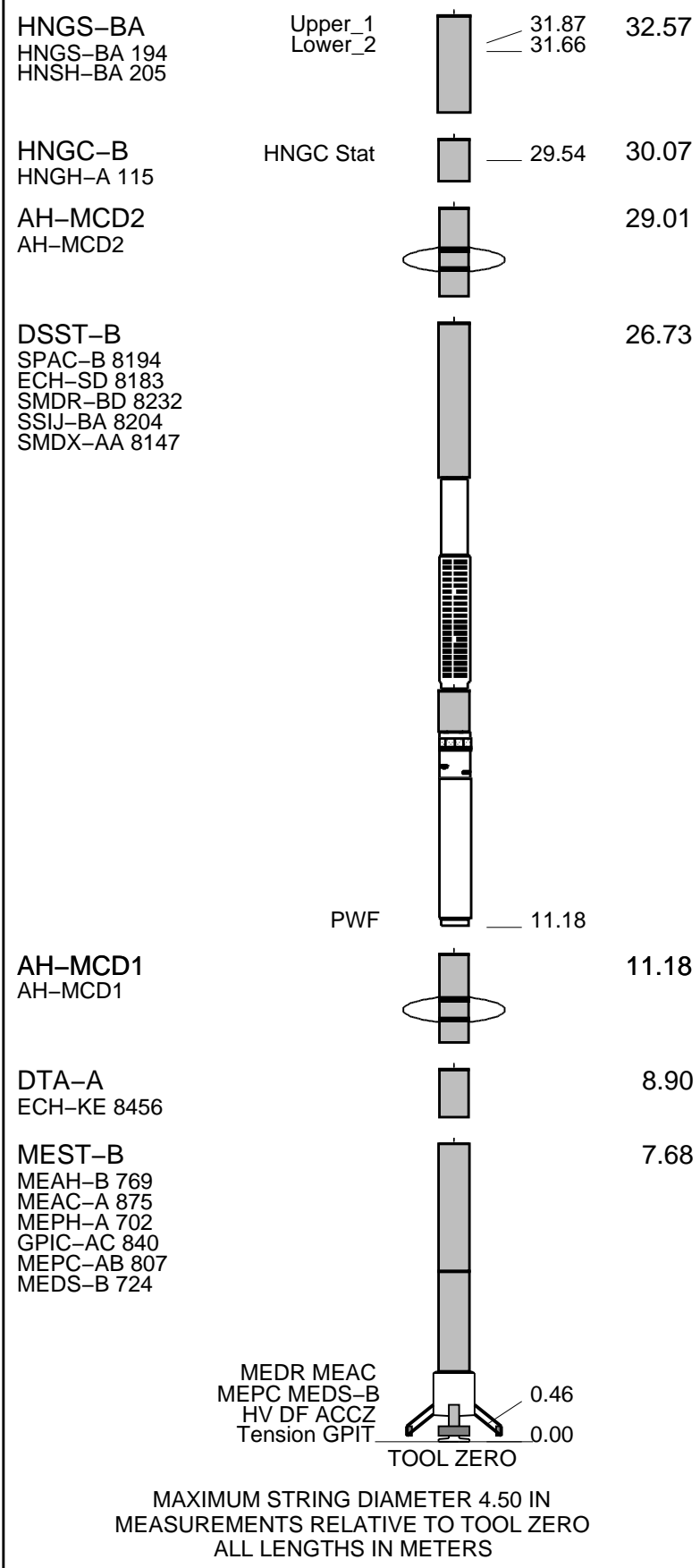
Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8 " BS
 Free-Fall Funnel deployed for re-entry without casing.
 Bit placed at 96.5mbsf (driller's depth) prior to logging; logs tied into Run 1, Pass 2 bit depth due to low GR at sea bed.
 Hole was displaced to water-based mud prior to logging.
 Tools run as per tool sketch with entire string centralized using two modified MCD inline bowpring centralizers.
 Logs recorded in real-time with depth zero at drill floor; final depth adjusted to have zero at sea floor for core compatibilit
 Depth reference for this hole was the second pass of the first run; all other logs tied into that pass.
 Hole obstructed at a depth of 368.6mbsf; tools unable to pass below this depth; logs recorded from this depth up.
 FMS run with calipers open for upward passes and EMEX in automatic mode.
 DSI run with the following modes active for all passes:
 Upper Dipole in Low Frequency
 Lower Dipole in Standard Frequency
 P&S Monopole in Standard Frequency
 Stoneley (Monopole) in Standard Frequency
 Bit located at 96.5mbsf for downlog and first pass; raised to 79.3mbsf prior to second pass to maximize logged interval.
 FMS Caliper closed and EMEX deactivated at 122.8mbsf to facilitate pipe entry.

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

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
GSR-U 616008 WITM (EDTS)-A	

RUN 1	RUN 2
DOWNHOLE EQUIPMENT	
LEH-QT LEH-QT 301 EDTC-B EDTH-B 8303 EDTC-B 8317 EDTG-A/B 8305	MDSB_EDTC Mud Tempe CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele
	34.55 33.49 32.92 34.55 32.57



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

Kelly Bushing Elevation

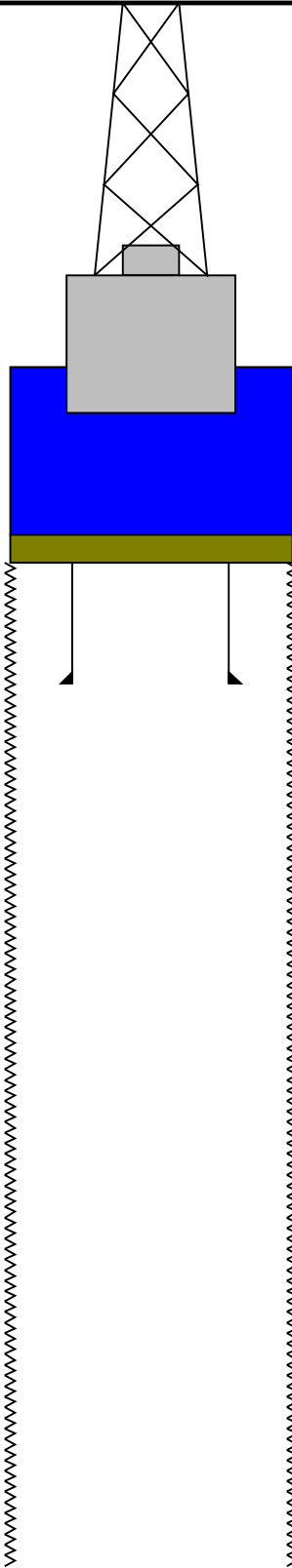
Derrick Floor Elevation

Mean Sea Level

-3173.0

-3173.0

-3162.2



0.0

96.5

529.8

5.500

4.000

9.875

Sea Bed

Bit

Total Depth - Driller

Schlumberger

Downlog

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_048LUP	PRODUCER	26-Sep-2014 12:42	3472.5 M	3118.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_049PUP	FN:66	PRODUCER	26-Sep-2014 12:45	299.5 M	-18.1 M
CLIENT	FMS_DSI_NGS_049PUC	FN:67	CUSTOMER	26-Sep-2014 12:45	299.5 M	-18.1 M

OP System Version: 19C0-187

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

PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR_EDTC)
(GAPI) 0 40

Caliper 2 (C2)
(IN) 0 20

Caliper 1 (C1)
(IN) 0 20

Bit Size (BS)
(IN) 0 20

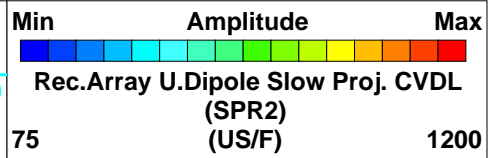
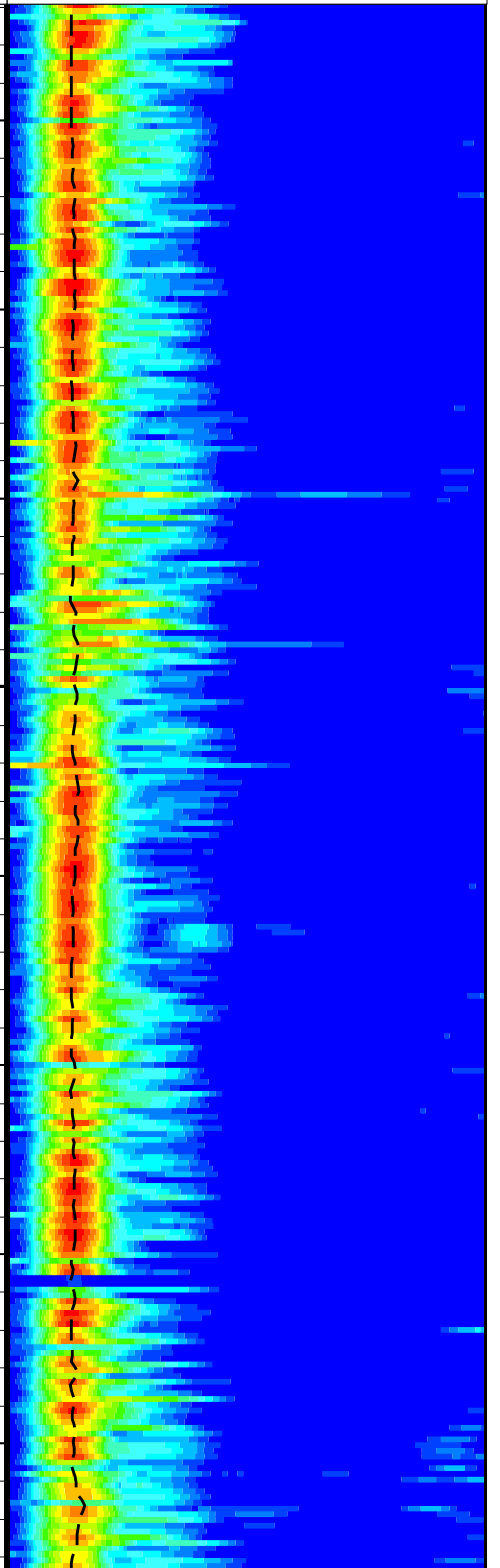
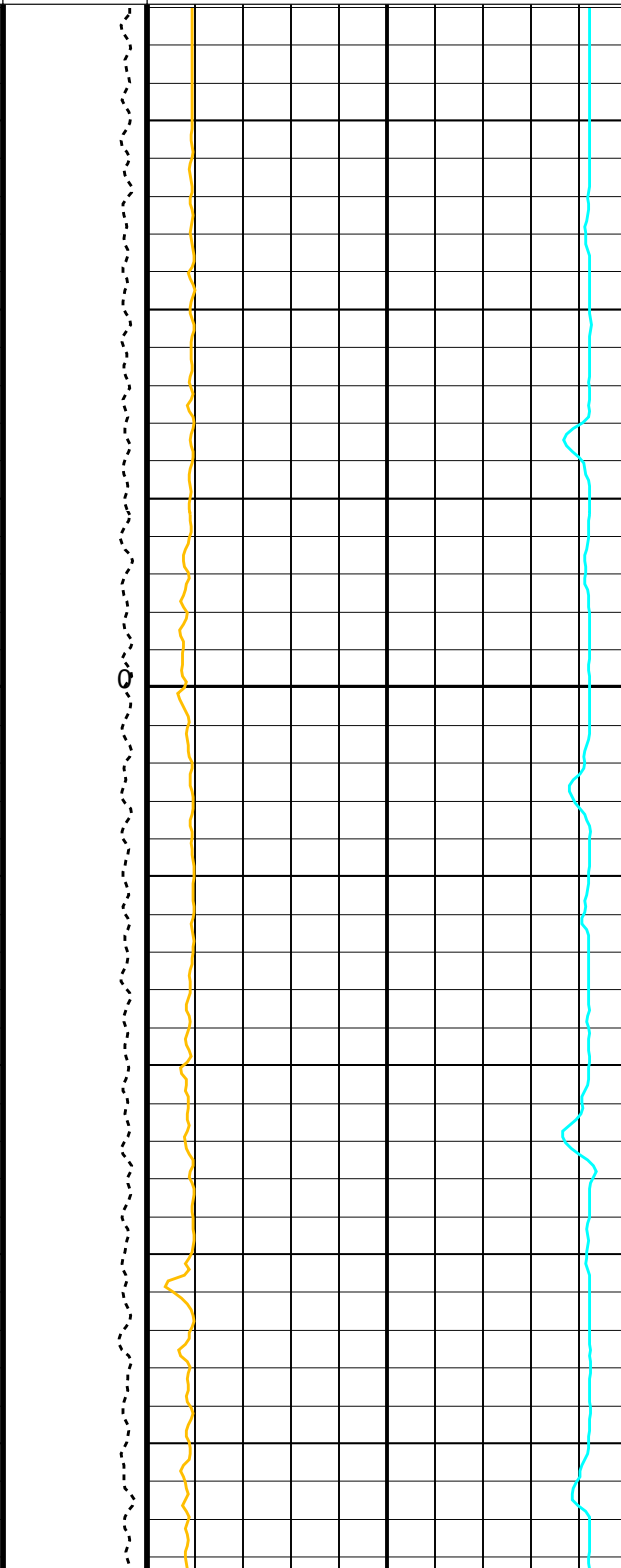
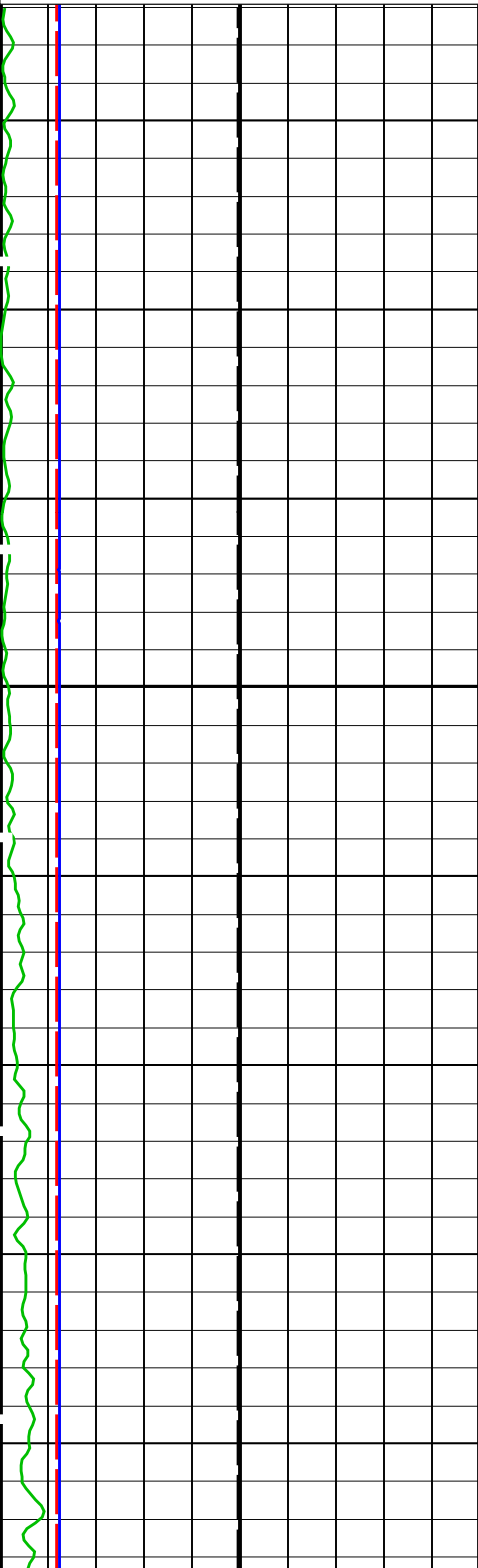
Tension
(TENS)
(LBF) 0 5000

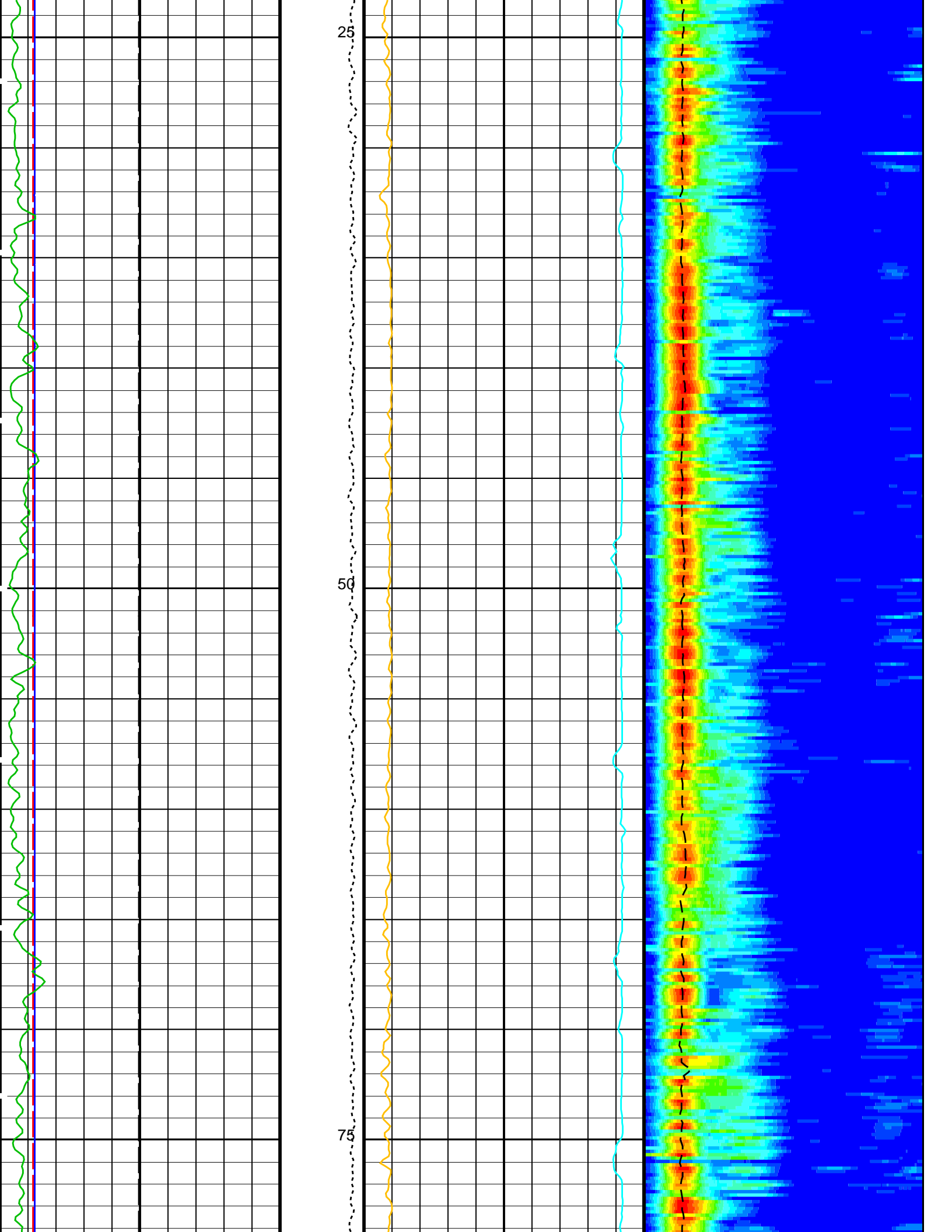
Sonic Velocity (SVEL)
(M/S) 1000 6000

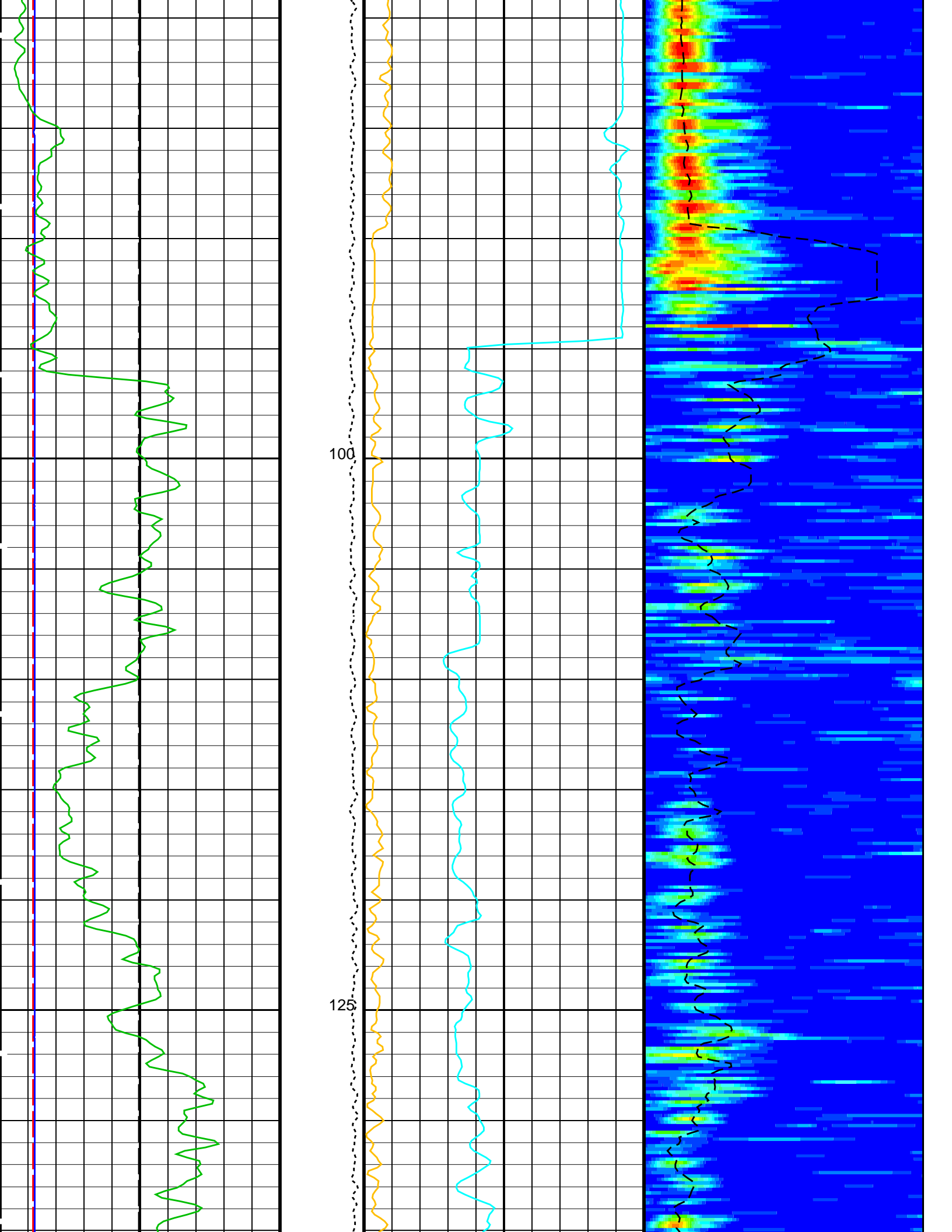
Peak Coherence / RA - Upper Dipole
(CHR2) 0 10

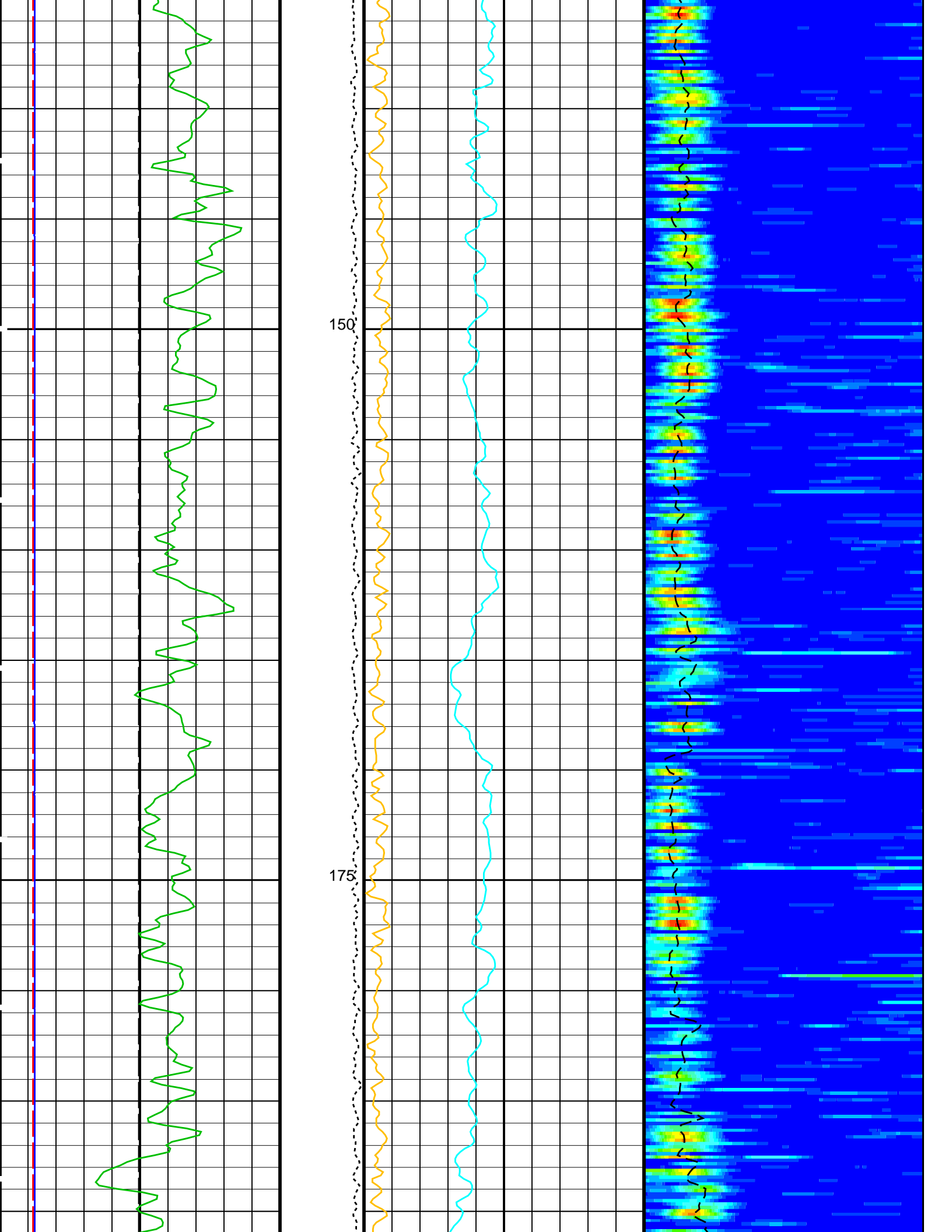
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL
(SPR2) 75 1200
(US/F)

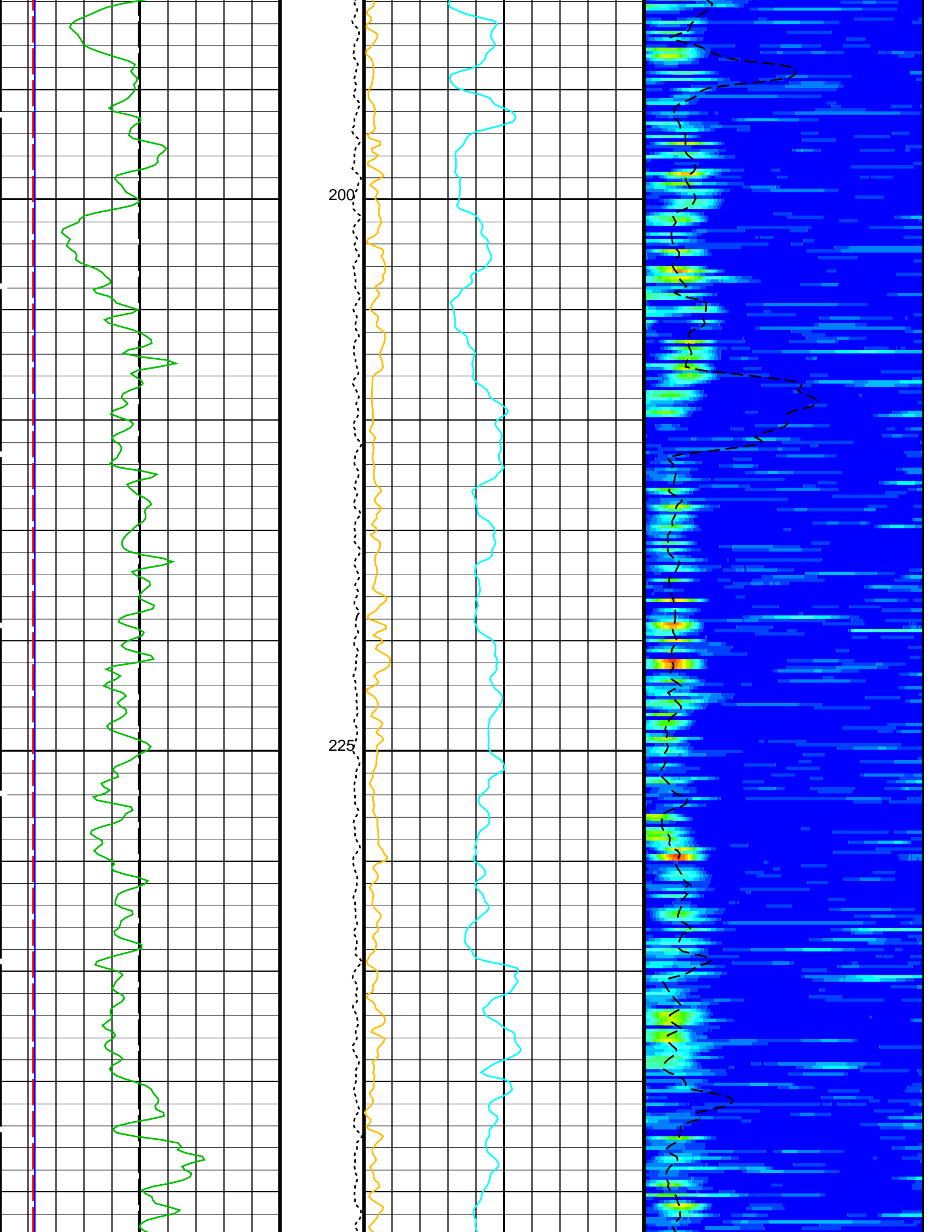
Delta-T Shear / RA - Upper Dipole
(DT2R) 75 1200
(US/F)

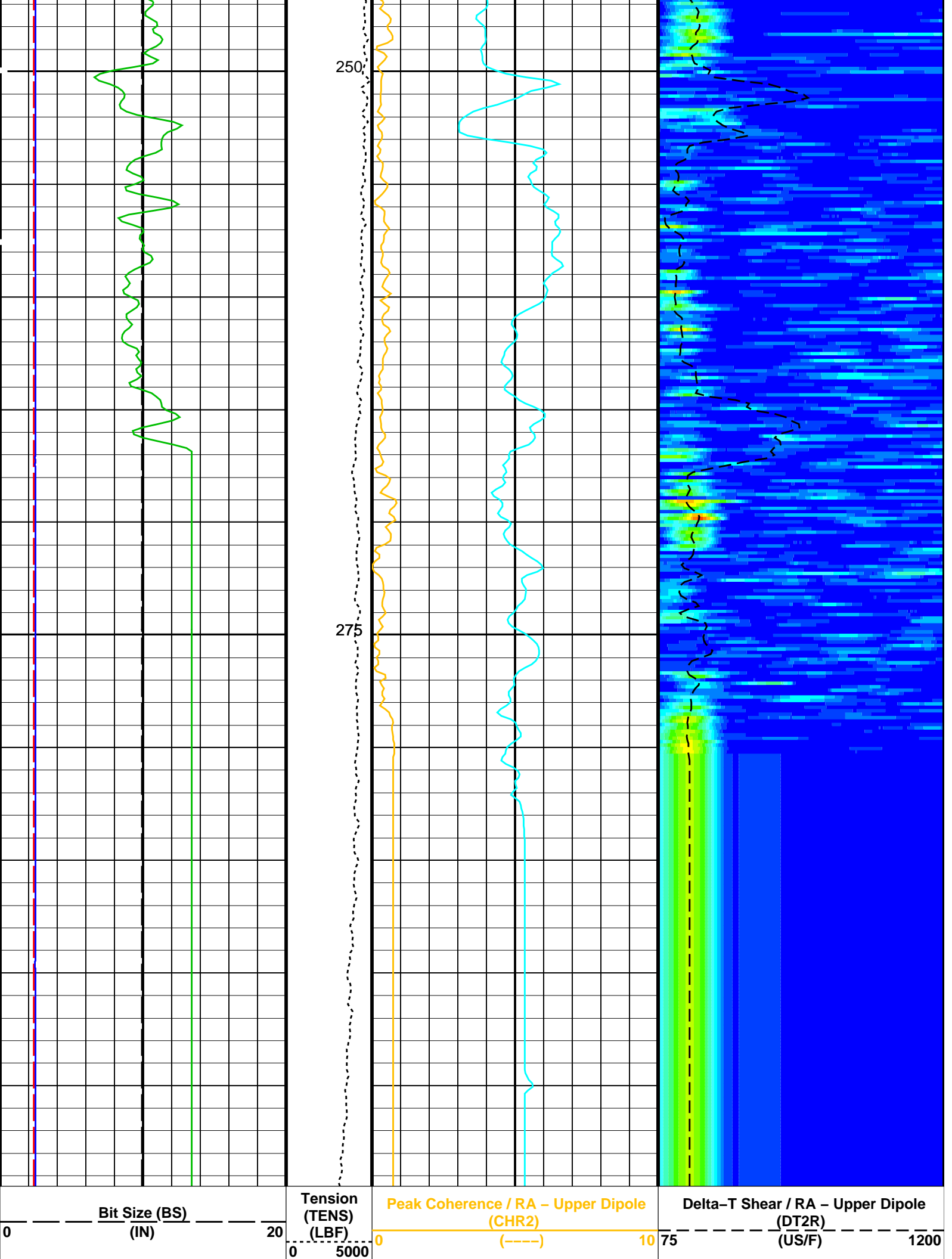












Caliper 1 (C1) 0 (IN) 20	Sonic Velocity (SVEL) 1000 (M/S) 6000	Min Max 75 (US/F) 1200
Caliper 2 (C2) 0 (IN) 20		
Gamma Ray (GR_EDTC) 0 (GAPI) 40		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
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	75 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
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	LFD_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	B.3-1.5K
SLL2	STC Slowness Lower Limit - Upper Dipole	75 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	600 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
System and Miscellaneous		
BS	Bit Size	9.875 IN
DO	Depth Offset for Playback	-3173.0 M
PP	Playback Processing	RECOMPUTE

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 26-Sep-2014 12:45

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_048LUP	PRODUCER	26-Sep-2014 12:42	3472.5 M	3118.1 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_049PUP	FN:66	PRODUCER	26-Sep-2014 12:45
CLIENT	FMS_DSI_NGS_049PUC	FN:67	CUSTOMER	26-Sep-2014 12:45



First Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	FMS_DSI_NGS_015LUP	FN:19	PRODUCER	23-Sep-2014 13:16	3458.7 M	3309.8 M
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Output DLIS Files

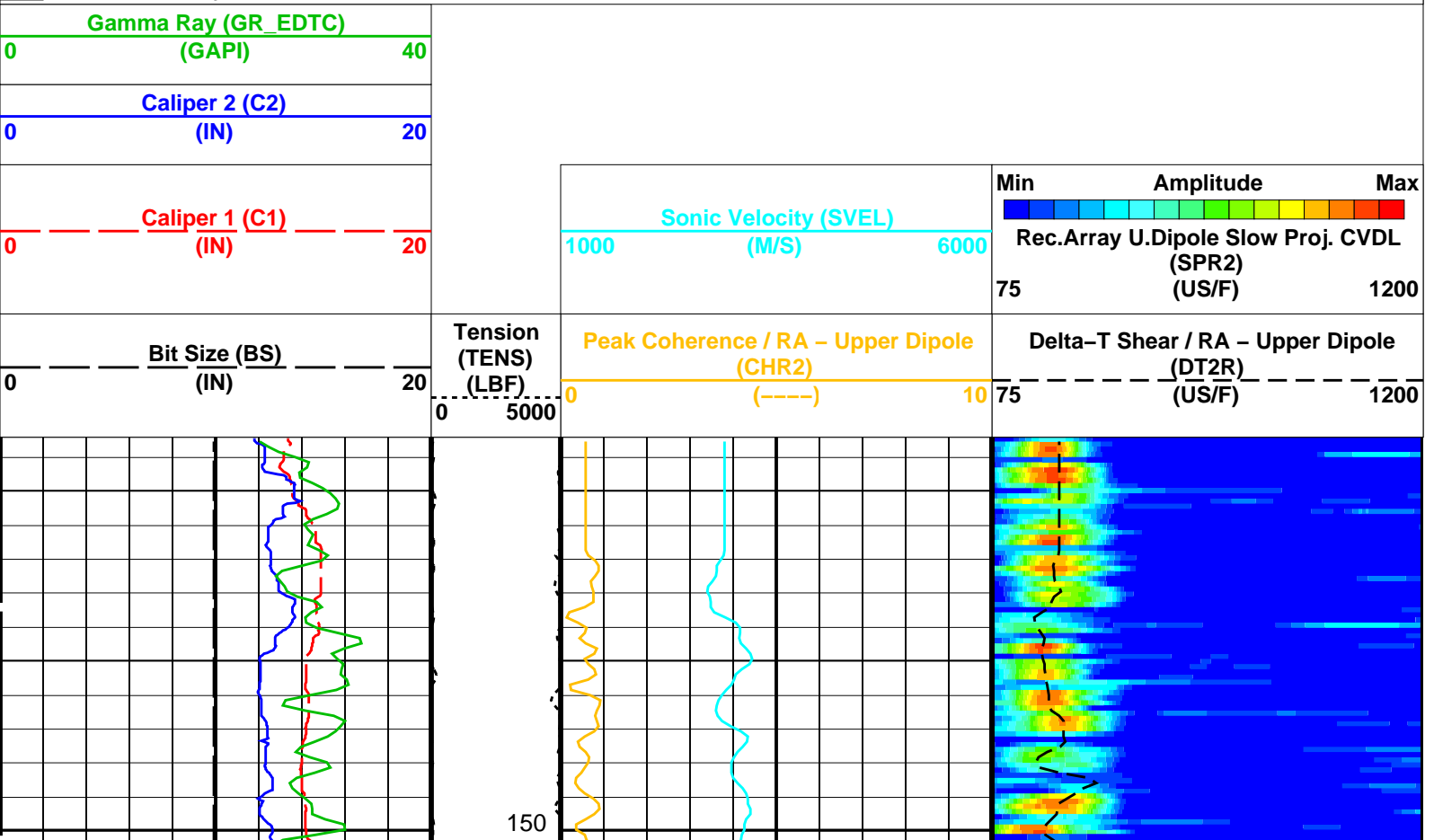
DEFAULT	FMS_DSI_NGS_053PUP	FN:74	PRODUCER	26-Sep-2014 13:00	288.0 M	138.4 M
CLIENT	FMS_DSI_NGS_053PUC	FN:75	CUSTOMER	26-Sep-2014 13:00	288.0 M	138.4 M

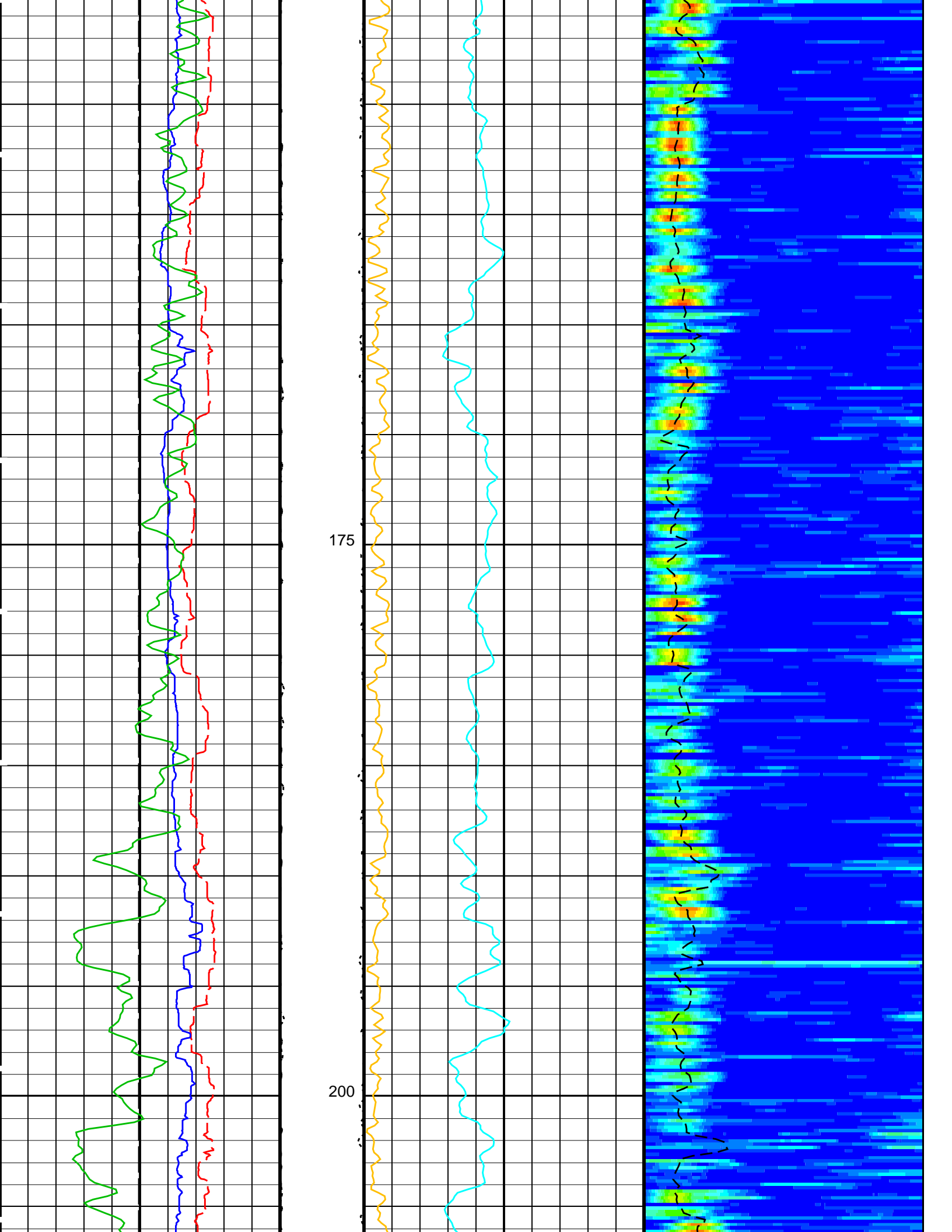
OP System Version: 19C0-187

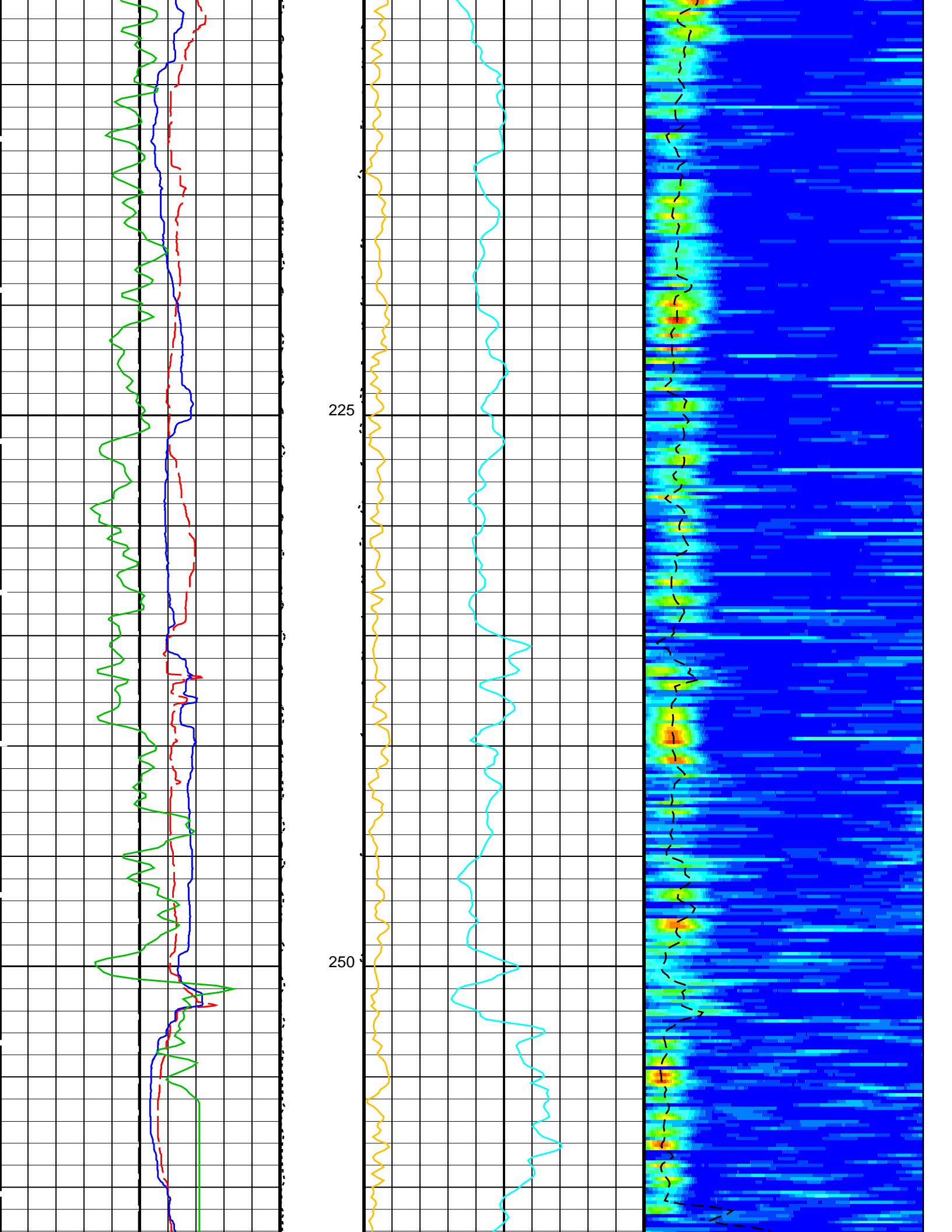
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

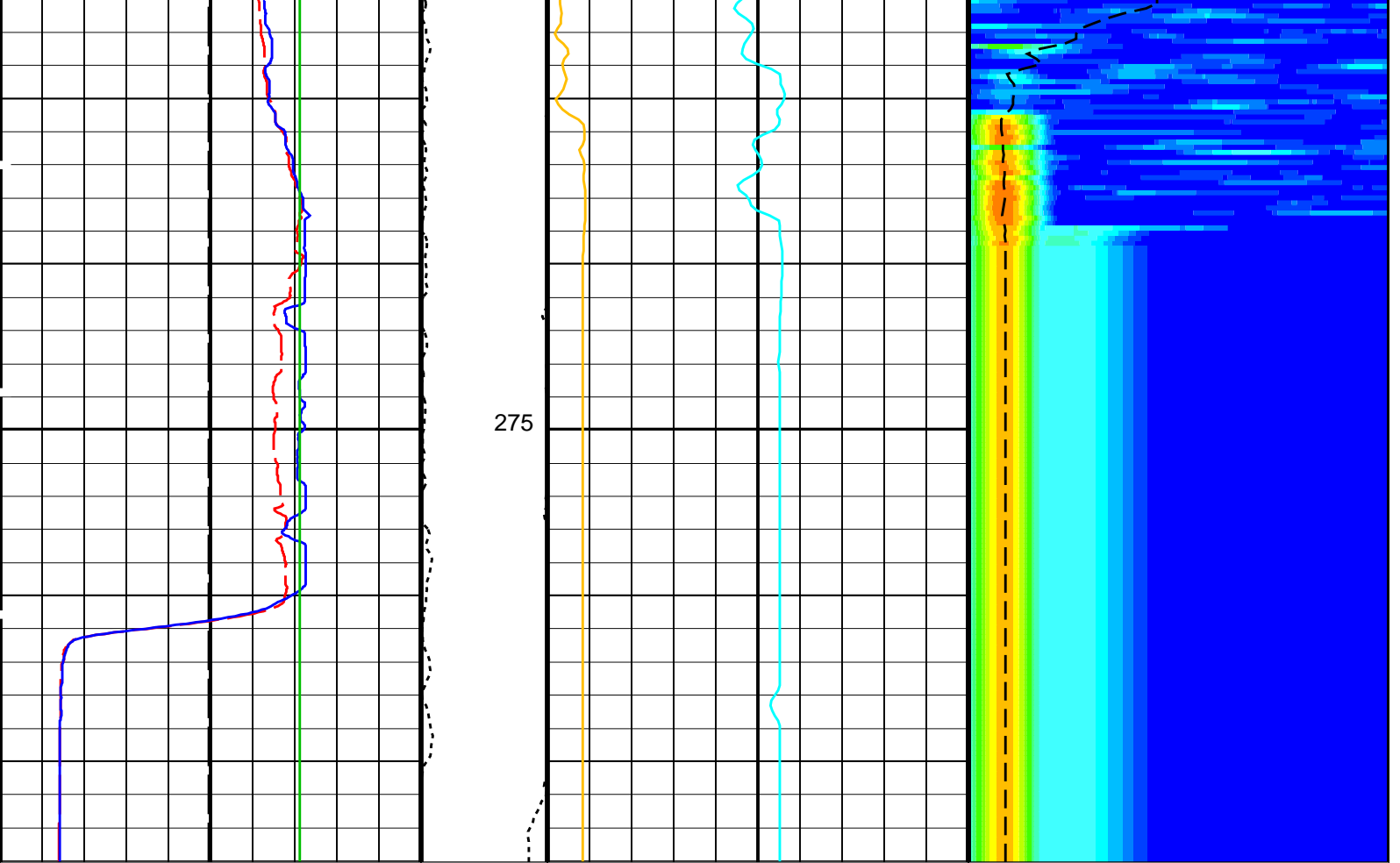
PIP SUMMARY

Time Mark Every 60 S









0	Bit Size (BS) (IN)	20	0	Tension (TENS) (LBF)	5000	0	Peak Coherence / RA - Upper Dipole (CHR2) (----	10	75	Delta-T Shear / RA - Upper Dipole (DT2R) (US/F)	1200
0	Caliper 1 (C1) (IN)	20	1000	Sonic Velocity (SVEL) (M/S)	6000	75	Min	Amplitude	Max	Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)	1200
0	Caliper 2 (C2) (IN)	20									
0	Gamma Ray (GR_EDTC) (GAPI)	40									

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
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	75 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
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	LFD_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	B.3–1.5K	
SLL2	STC Slowness Lower Limit – Upper Dipole	75	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	600	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
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-3171.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 26-Sep-2014 13:00

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_015LUP	FN:19	PRODUCER	23-Sep-2014 13:16	3458.7 M	3309.8 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_053PUP	FN:74	PRODUCER	26-Sep-2014 13:00		
CLIENT	FMS_DSI_NGS_053PUC	FN:75	CUSTOMER	26-Sep-2014 13:00		

Second Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	FMS_DSI_NGS_016LUP	FN:20	PRODUCER	23-Sep-2014 13:53	3458.7 M	3164.9 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_054PUP	FN:76	PRODUCER	26-Sep-2014 13:03	288.0 M	-6.6 M
CLIENT	FMS_DSI_NGS_054PUC	FN:77	CUSTOMER	26-Sep-2014 13:03	288.0 M	-6.6 M

OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A	19C0-187
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MEST-B 19C0-187
DSST-B 19C0-187
HNGS-BA 19C0-187

DTA-A
HNGC-B
EDTC-B

19C0-187
19C0-187
SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR_EDTC)
(GAPI) 0 40

Caliper 2 (C2)
(IN) 0 20

Caliper 1 (C1)
(IN) 0 20

Bit Size (BS)
(IN) 0 20

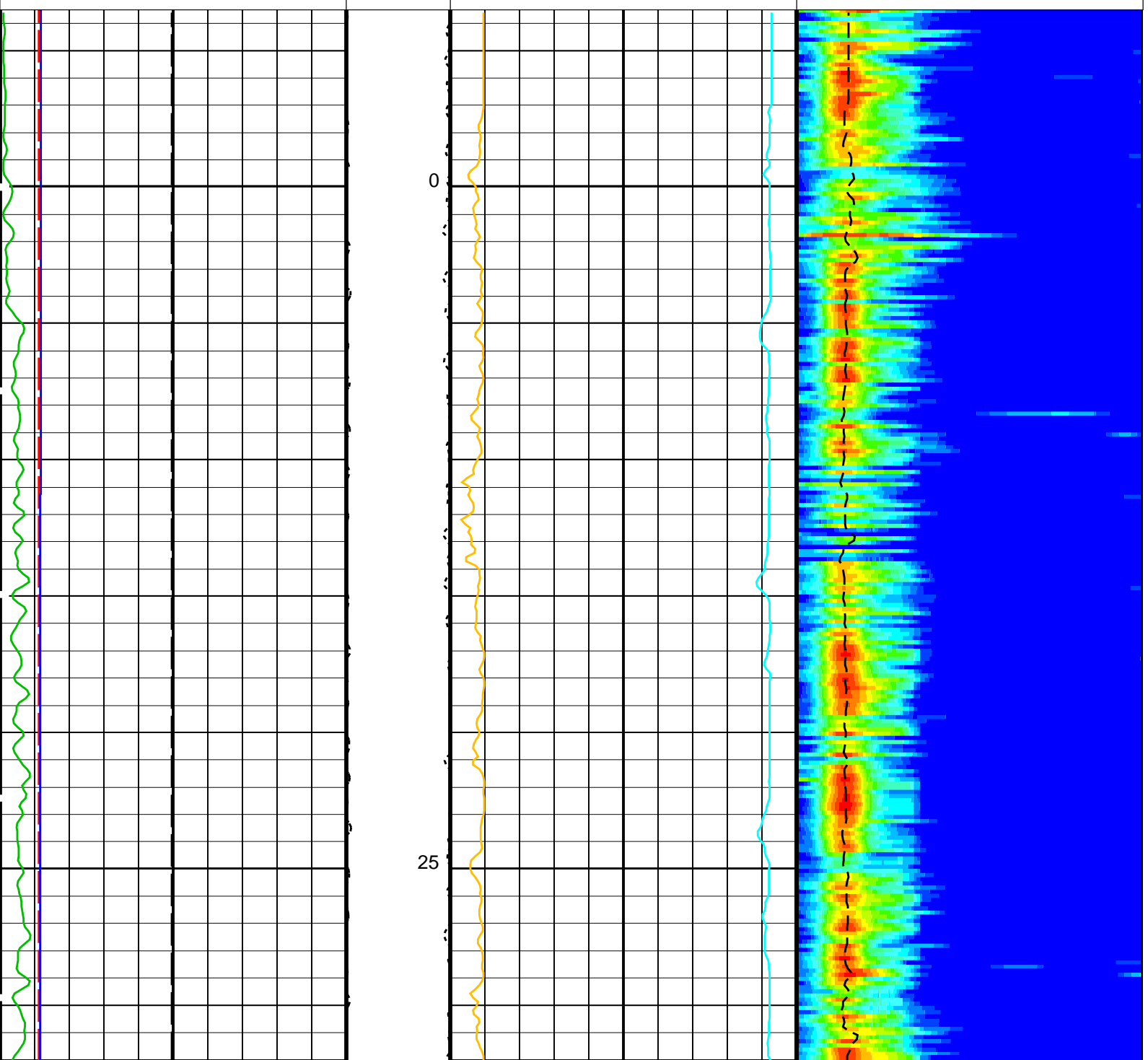
Tension (TENS)
(LBF) 0 5000

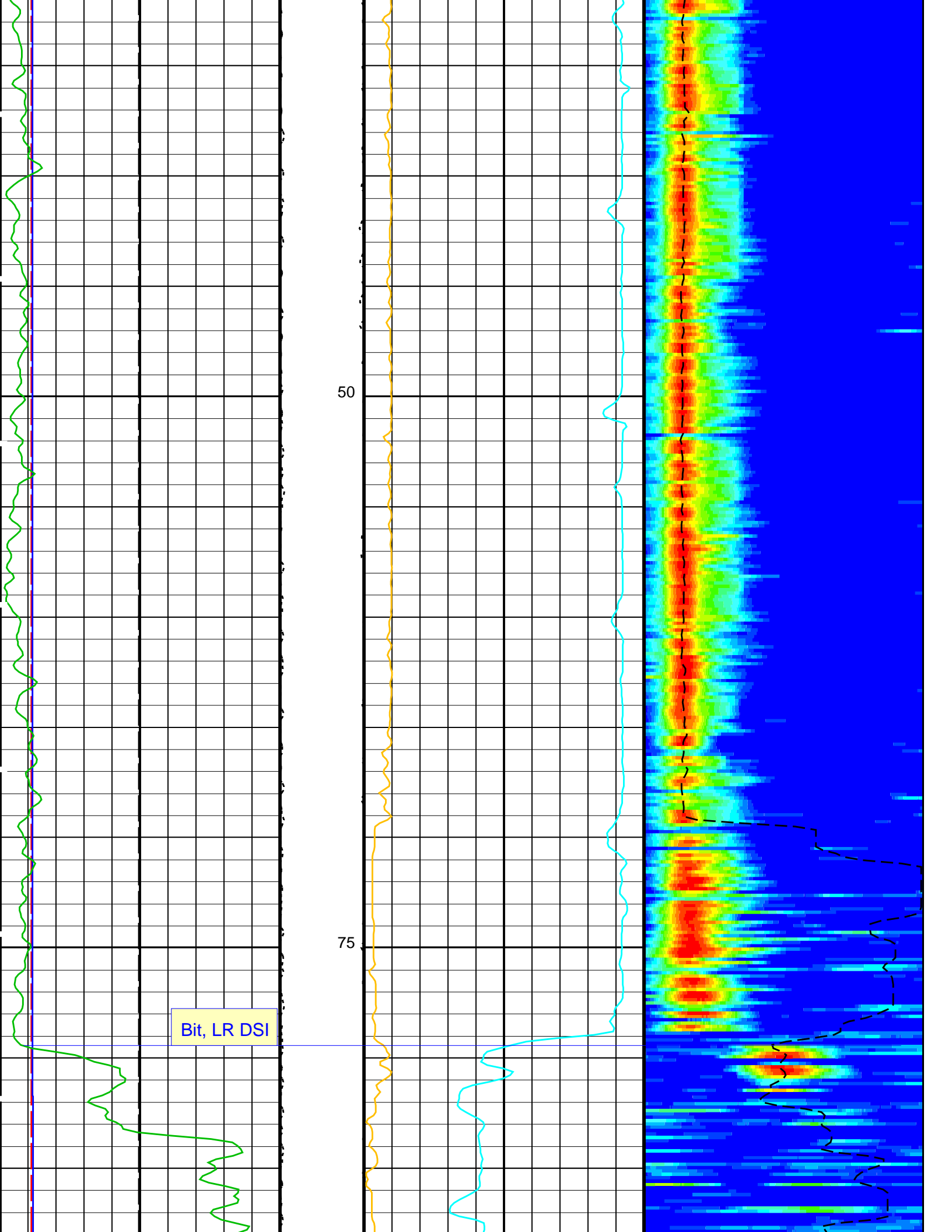
Sonic Velocity (SVEL)
(M/S) 1000 6000

Peak Coherence / RA - Upper Dipole (CHR2)
(-----) 0 10

Amplitude
Min Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F) 75 1200

Delta-T Shear / RA - Upper Dipole (DT2R)
(US/F) 75 1200

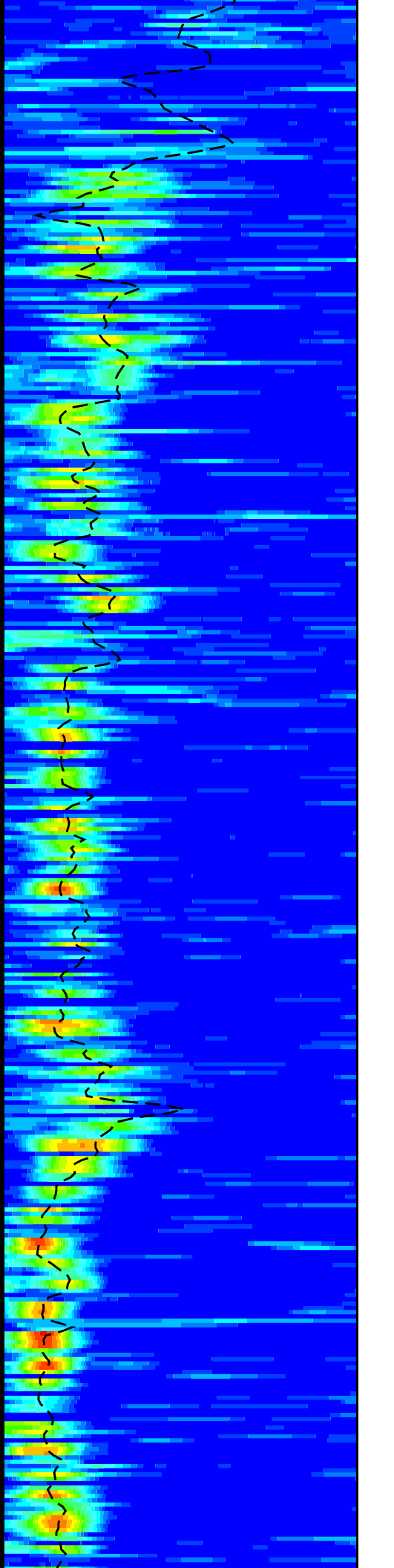
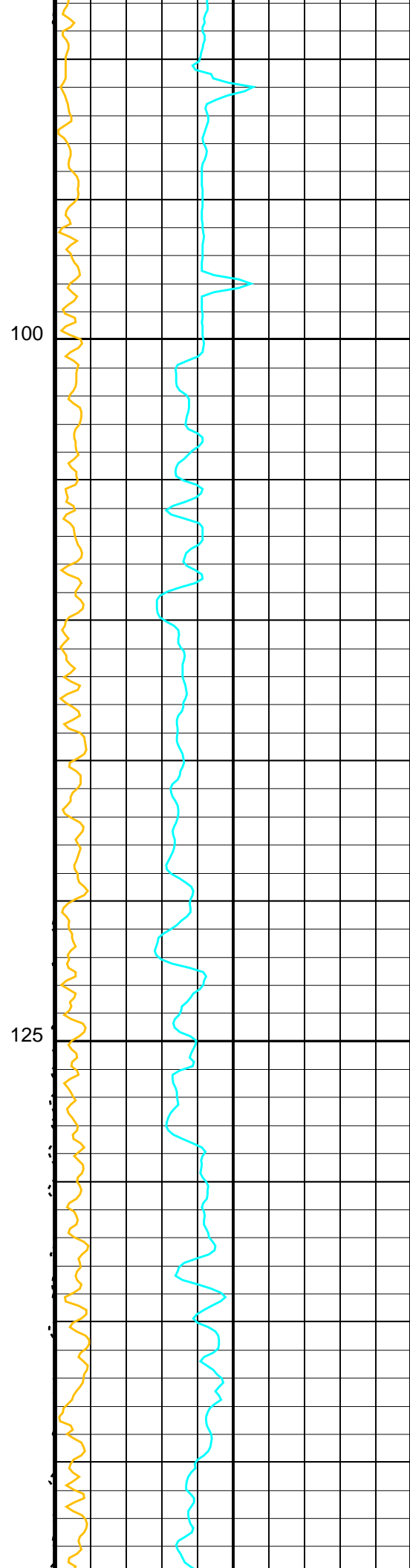
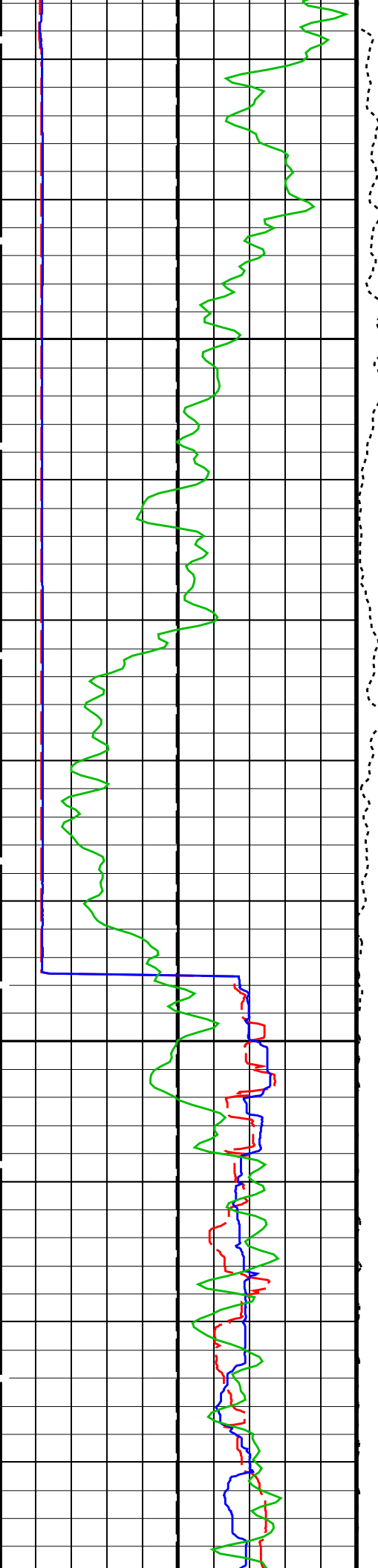


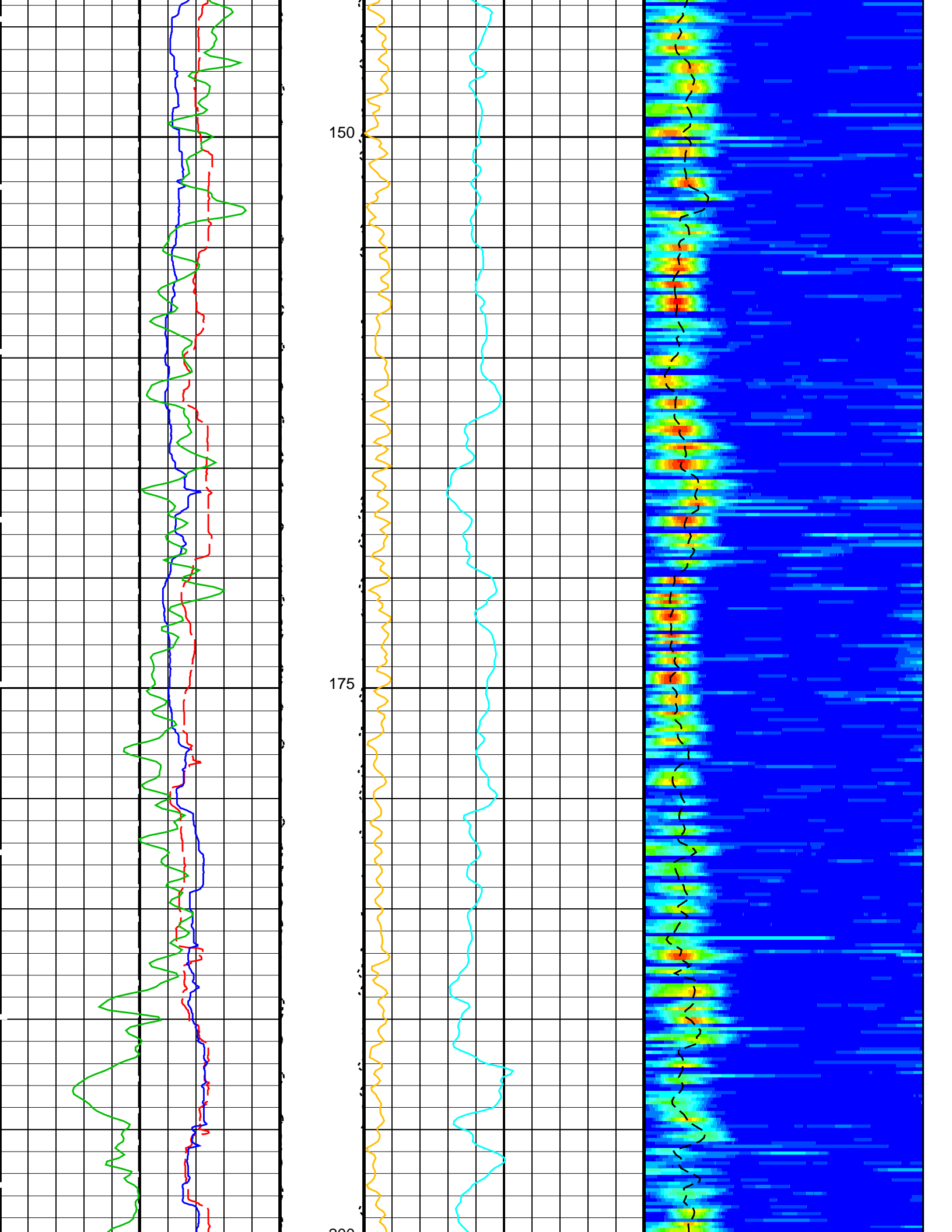


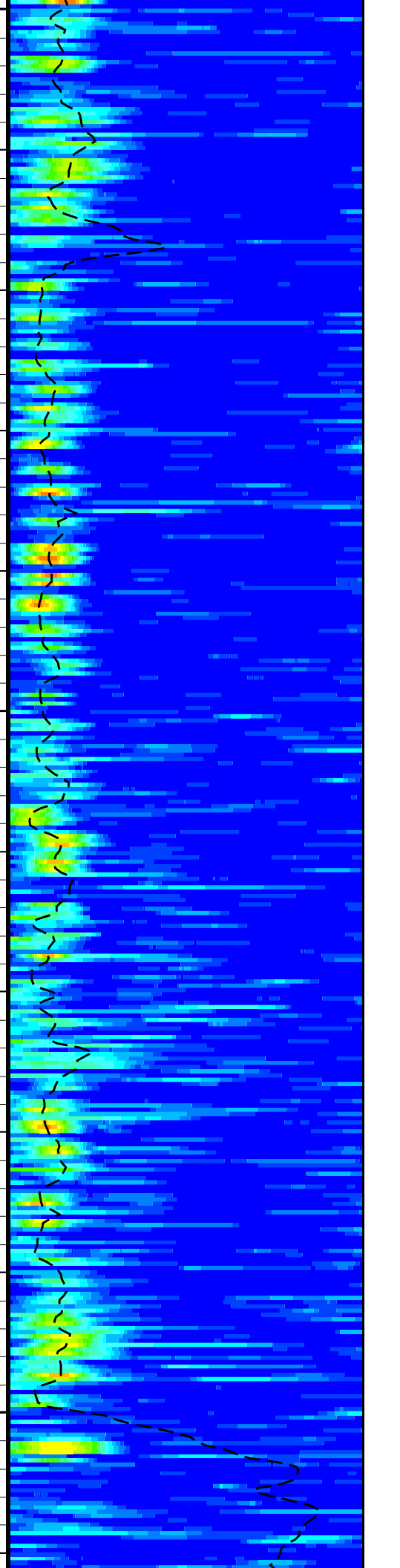
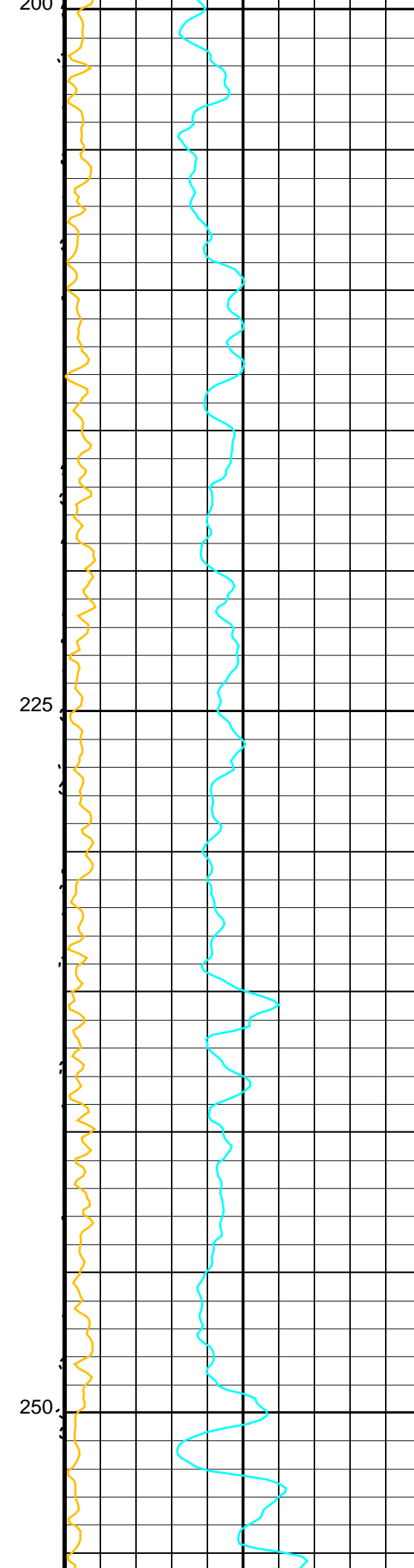
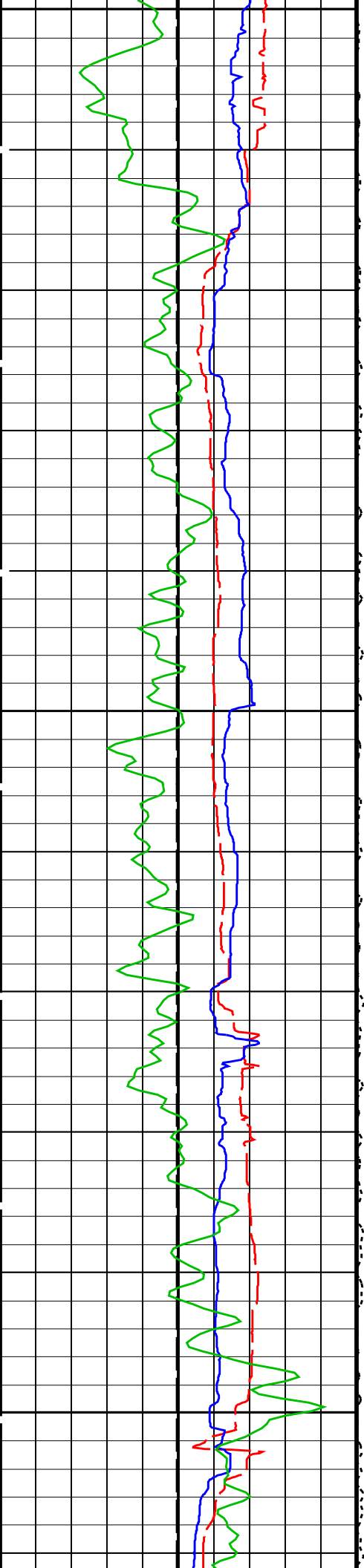
Bit, LR DSI

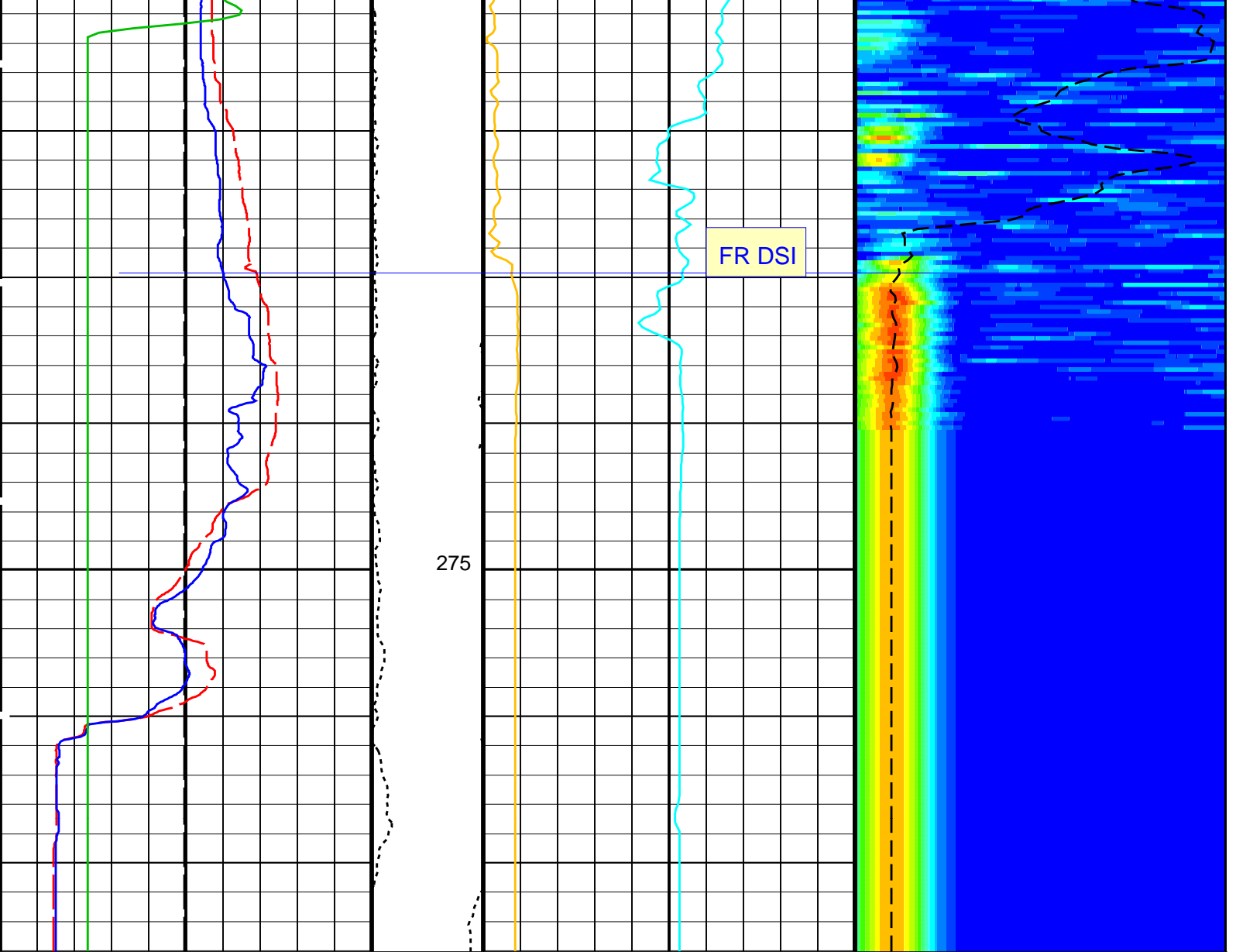
50

75









<p>Bit Size (BS) (IN)</p> <p>0 20</p>	<p>Tension (TENS) (LBF)</p> <p>0 5000</p>	<p>Peak Coherence / RA - Upper Dipole (CHR2) (-----)</p> <p>0 10</p>	<p>Delta-T Shear / RA - Upper Dipole (DT2R) (US/F)</p> <p>75 1200</p>
<p>Caliper 1 (C1) (IN)</p> <p>0 20</p>		<p>Sonic Velocity (SVEL) (M/S)</p> <p>1000 6000</p>	<p>Amplitude Min Max 75 1200 Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)</p>
<p>Caliper 2 (C2) (IN)</p> <p>0 20</p>			
<p>Gamma Ray (GR_EDTC) (GAPI)</p> <p>0 40</p>			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B:	Dipole Shear Imager - B	
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	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	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
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	LFD_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	B.3-1.5K	
SLL2	STC Slowness Lower Limit - Upper Dipole	75	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	600	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
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-3171.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 26-Sep-2014 13:03

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_016LUP	FN:20	PRODUCER	23-Sep-2014 13:53	3458.7 M	3164.9 M
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Output DLIS Files

DEFAULT	FMS_DSI_NGS_054PUP	FN:76	PRODUCER	26-Sep-2014 13:03
CLIENT	FMS_DSI_NGS_054PUC	FN:77	CUSTOMER	26-Sep-2014 13:03



Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration

Before: Calibration out of date 3-Feb-2014 19:22

Caliper 1 Zero Measurement	12.00	N/A	11.98	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.05	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.18	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.38	N/A	N/A	N/A	IN

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

Before: 23-Sep-2014 10:45

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: 23-Sep-2014 10:45

TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 15-Jul-2014 0:16 Before: 23-Sep-2014 3:43 After: 23-Sep-2014 9:35

Na 511 Peak Loc	40.00	39.57	39.57	39.68	0.1186	1.000	
Na 511 Peak Res	15.50	15.78	15.35	14.71	-0.6379	2.000	%
High Voltage	1150	1197	1187	1186	-0.7285	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.8	142.6	0.7831	7.000	
Na 1785 Peak Res	8.500	9.334	8.462	9.740	1.278	2.000	%
Temperature	15.50	37.42	35.70	33.88	-1.827	N/A	DEGC
Na Count Rate	45.00	10.91	9.927	9.941	0.01461	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 15-Jul-2014 0:16 Before: 23-Sep-2014 3:43 After: 23-Sep-2014 9:35

Na 511 Peak Loc	40.00	39.46	39.49	39.67	0.1857	1.000	
Na 511 Peak Res	15.50	16.20	15.66	15.36	-0.2991	2.000	%
High Voltage	1150	1129	1121	1132	10.84	N/A	V
Na 1785 Peak Loc	142.6	141.8	140.7	142.8	2.092	7.000	
Na 1785 Peak Res	8.500	10.06	8.501	8.168	-0.3334	2.000	%
Temperature	15.50	38.37	35.89	35.35	-0.5446	N/A	DEGC
Na Count Rate	45.00	11.54	10.34	10.12	-0.2134	8.000	CPS

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

Master: 15-Jul-2014 0:16 Before: 23-Sep-2014 3:43 After: 23-Sep-2014 9:35

Coincidence Count Rate Ratio	1.000	0.9495	0.9661	0.9843	0.01826	0.05000	
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Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 23-Sep-2014 3:45

EDTC Z-Axis Acceleration	9.810	N/A	9.750	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 23-Sep-2014 3:36 After: 23-Sep-2014 9:32

Gamma Ray (Jig – Bkg)	160.3	N/A	160.3	155.0	-5.277	14.57	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	159.6	-5.432	15.00	GAPI

Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	724
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	875

Auxiliary Equipment:

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

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	300
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Auxiliary Equipment:

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

Primary Equipment:
HNGS Sonde

HNGS – BA 194

Auxiliary Equipment:
HNGS Sonde Housing
Gamma Source Radioactive

HNSH – BA 205
GSR – U 616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.57	Master		15.78	Master		1197
Before		39.57	Before		15.35	Before		1187
After		39.68	After		14.71	After		1186
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.4	Master		9.334	Master		37.42
Before		141.8	Before		8.462	Before		35.70
After		142.6	After		9.740	After		33.88
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		10.91						
Before		9.927						
After		9.941						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 15-Jul-2014 0:16			Before: 23-Sep-2014 3:43			After: 23-Sep-2014 9:35		

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		39.46	Master		16.20	Master		1129
Before		39.49	Before		15.66	Before		1121
After		39.67	After		15.36	After		1132
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		141.8	Master		10.06	Master		38.37
Before		140.7	Before		8.501	Before		35.89
After		142.8	After		8.168	After		35.35
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		11.54						
Before		10.34						
After		10.12						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 15-Jul-2014 0:16			Before: 23-Sep-2014 3:43			After: 23-Sep-2014 9:35		

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9495

Before		0.9661
After		0.9843
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 15-Jul-2014 0:16		
Before: 23-Sep-2014 3:43		
After: 23-Sep-2014 9:35		

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		9.750
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 23-Sep-2014 3:45		

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		1.756	Before		160.3	Before		165.0	
After		7.977	After		155.0	After		159.6	
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			145.7 (Minimum) 160.3 (Nominal) 174.9 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		
Before: 23-Sep-2014 3:36			After: 23-Sep-2014 9:32						

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 352, Site U1442A**

Field: **IBM-3 Forearc**

Rig: **JOIDES Resolution**

Country:

DSI Dipole Sonic Imager
Upper Dipole