

**Company:** Lamont Doherty

**Well:** Expedition 336, Site U1383C

**Field:** North Pond

**Rig:** JOIDES Resolution Country: USA

**DSI – Sonic  
Lower Dipole**

**Rig:** JOIDES Resolution  
**Field:** North Pond  
**Location:** Latitude: N 22° 48.1241'  
**Well:** Expedition 336, Site U1383C  
**Company:** Lamont Doherty

LOCATION			
Latitude: N 22° 48.1241'	Elev.:	K.B.	11.00 m
Longitude: W 46° 3.1662'	G.L.	-4425.20 m	
Permanent Datum: _____	Mean Sea Level	_____	
Log Measured From: _____	Drill Floor	_____	
Drilling Measured From: _____	Drill Floor	_____	
Ocean: Atlantic	Max. Well Deviation	0 deg	
	Longitude	W 46° 3.1662'	Latitude
			N 22° 48.1241'

PVT DATA			
Oil Density		Run 1	Run 2
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	0 deg		
CEMENTING DATA			
Primary/Squeeze	Primary		
Casing String No			
Lead Cement Type			
Volume			
Density			
Water Loss			
Additives			
Tail Cement Type			
Volume			
Density			
Water Loss			
Additives			
Expected Cement Top			

Logging Date	3-Nov-2011		
Run Number	2		
Depth Driller	332 m		
Schlumberger Depth	331.2 m		
Bottom Log Interval	331.2 m		
Top Log Interval	55 m		
Casing Fluid Type	Seawater		
Salinity			
Density	1.05 g/cm3		
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size	9.875 in		
From			
To			
Casing/Tubing Size	10.750 in		
Weight	43 lbn/ft		
Grade			
From			
To			
Maximum Recorded Temperatures	15 degC		
Logger On Bottom	3-Nov-2011	18:00	
Unit Number	625003	Houston	
Recorded By	C. Fuman		
Witnessed By	L. Anderson		

**DISCLAIMER**

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**OTHER SERVICES1**

- OS1: FMS
- OS2: DEBIT
- OS3: HLDS
- OS4: HNGS

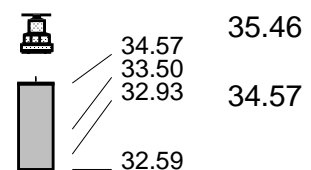
**REMARKS: RUN NUMBER 1**

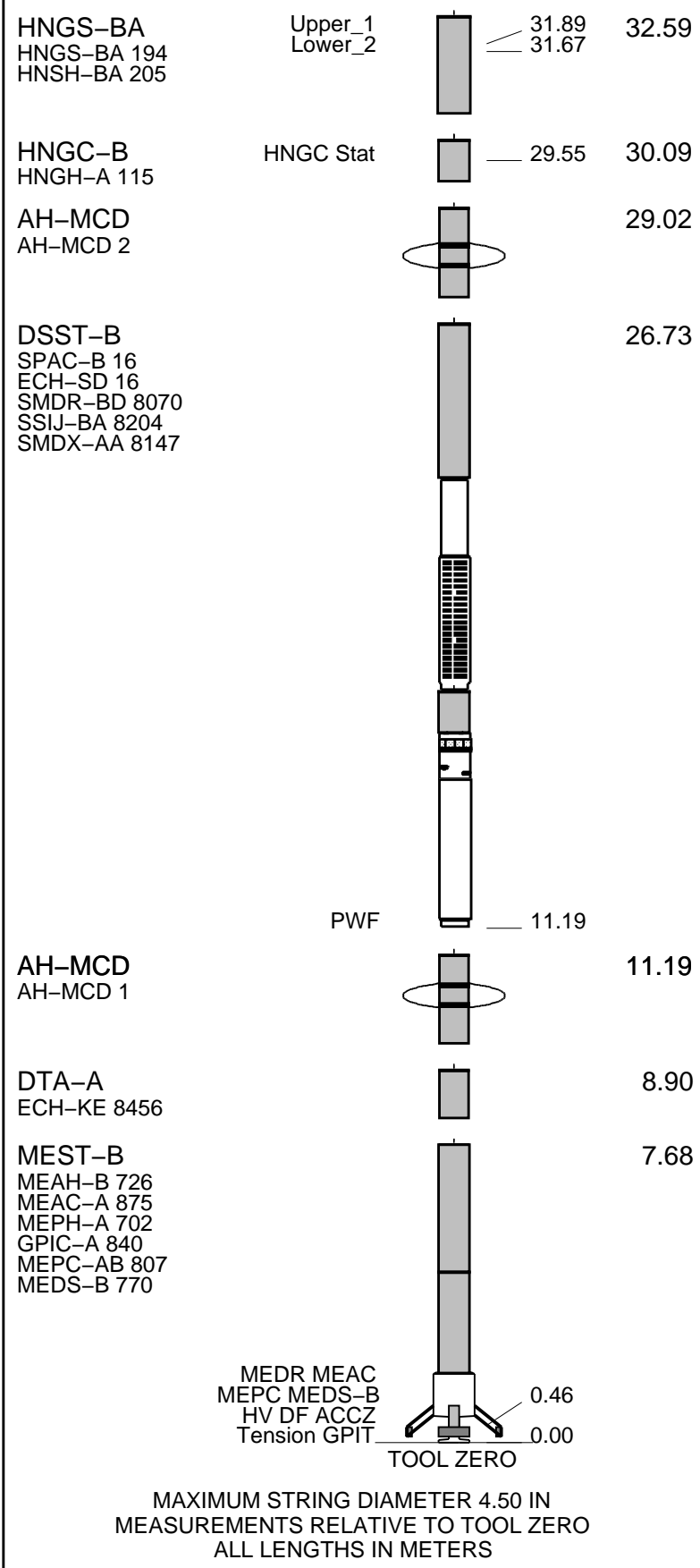
Hole 1383C was drilled for the purpose of installing a CORK; logs run to determine packer positions.  
 Logs conducted to run experimental microbiology tool "DEBI-T" from JPL / USC.  
 Primary objective of this run was to collect structural data, especially caliper data to be used for CORK packer depth picks.  
 DSI was run with the following modes, as per client instructions:  
 SAM1: Lower Dipole in Standard Frequency, Even Array, Receiver processing  
 SAM2: Upper Dipole in Standard Frequency, Odd Array, Receiver processing  
 SAM3: Stoneley in Standard Frequency, Odd Array, Receiver processing  
 SAM4: P&S in Standard Frequency, Even Array, DDBHC (Depth-Derived Borehole Compensated) processing  
 FMS was run with calipers close and EMEX off during the down log, as per standard practice.  
 FMS calipers were opened after tagging TD during first up pass, but had to be closed and re-opened due to tool sticking.  
**TD was tagged at 331.2mbsf and the up log was started before opening the calipers on the second pass.**  
 Calipers opened and EMEX applied at 330m during Pass #2. EMEX cut off at 66mbsf and calipers closed at 60mbsf during Pass #1.  
 Tool initially had difficulty re-entering pipe (head was catching on bit), so calipers were closed and EMEX switched off lower during second up pass in order to facilitate re-entry; tool entered safely and without damage on second attempt.  
 Logs were depth matched to the second up pass from the first run, which was taken to be the reference pass for this job.

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
<b>SURFACE EQUIPMENT</b>	
GSR-U 616008 WITM (EDTS)-A	

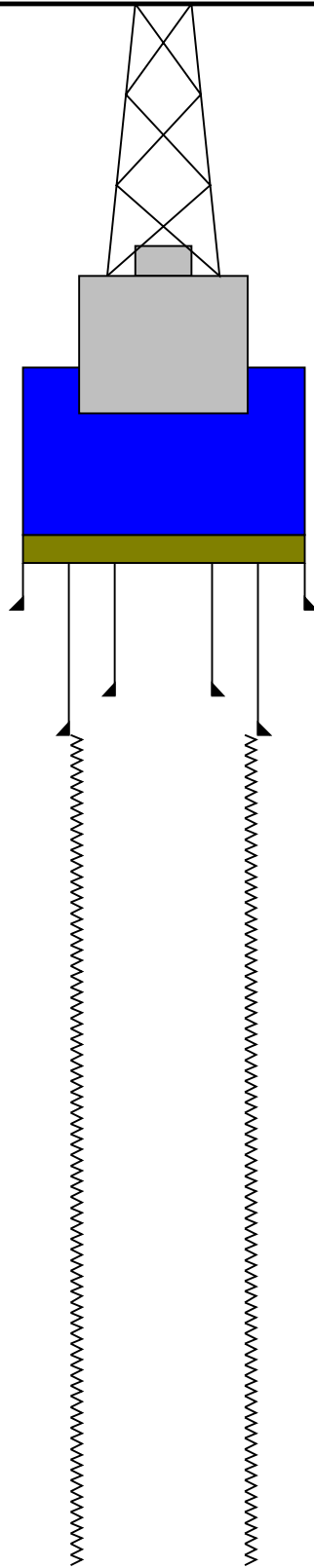
RUN 1	RUN 2
<b>DOWNHOLE EQUIPMENT</b>	
LEH-QT MP LEH-QT 301 EDTC-B EDTH-B 8528 EDTC-B 8529 EDTG-A/B	 MDSB_EDTC Mud Tempe CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele
	34.57 35.46 33.50 32.93 34.57 32.59



Production String	(in) (m)	Well Schematic	(m) (in)	Casing String
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Kelly Bushing Elevation  
Derrick Floor Elevation  
Mean Sea Level

-4421.5  
-4421.5  
-4410.5



0.0  
13.0 16.000  
55.0 5.500  
60.0 10.750

Sea Bed  
Casing Shoe  
Logging Bit  
Casing Shoe

332.0 9.875

Total Depth - Driller

**Schlumberger**

**Up Pass #2**

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 336, Site U1383C

**Input DLIS Files**

DEFAULT	FMS_DSI_NGS_034LUP	FN:33	PRODUCER	03-Nov-2011 21:58	4754.9 M	4414.3 M
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**Output DLIS Files**

DEFAULT	FMS_DSI_NGS_058PUP	FN:54	PRODUCER	10-Nov-2011 18:38	331.5 M	-8.7 M
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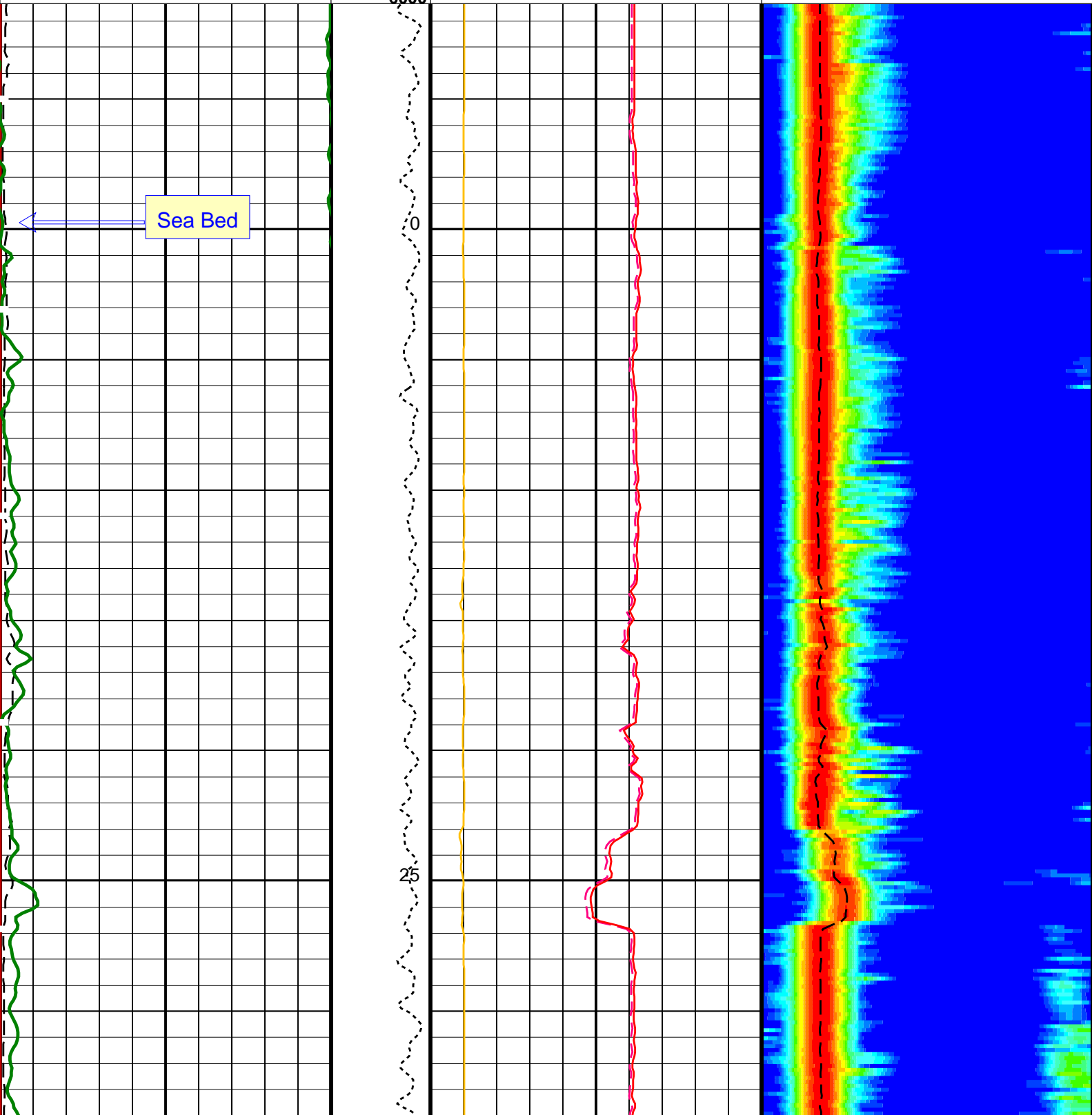
**OP System Version: 19C0-187**

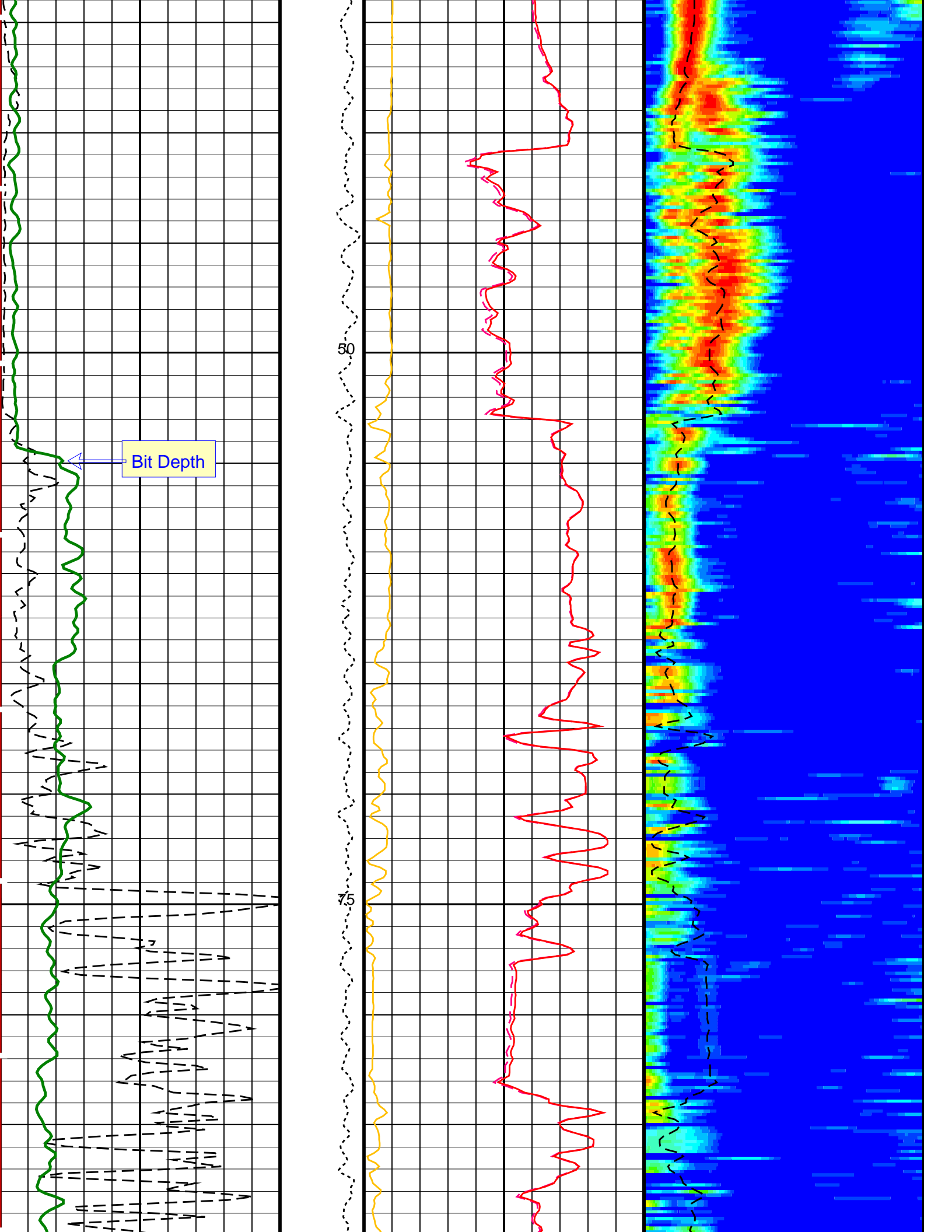
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

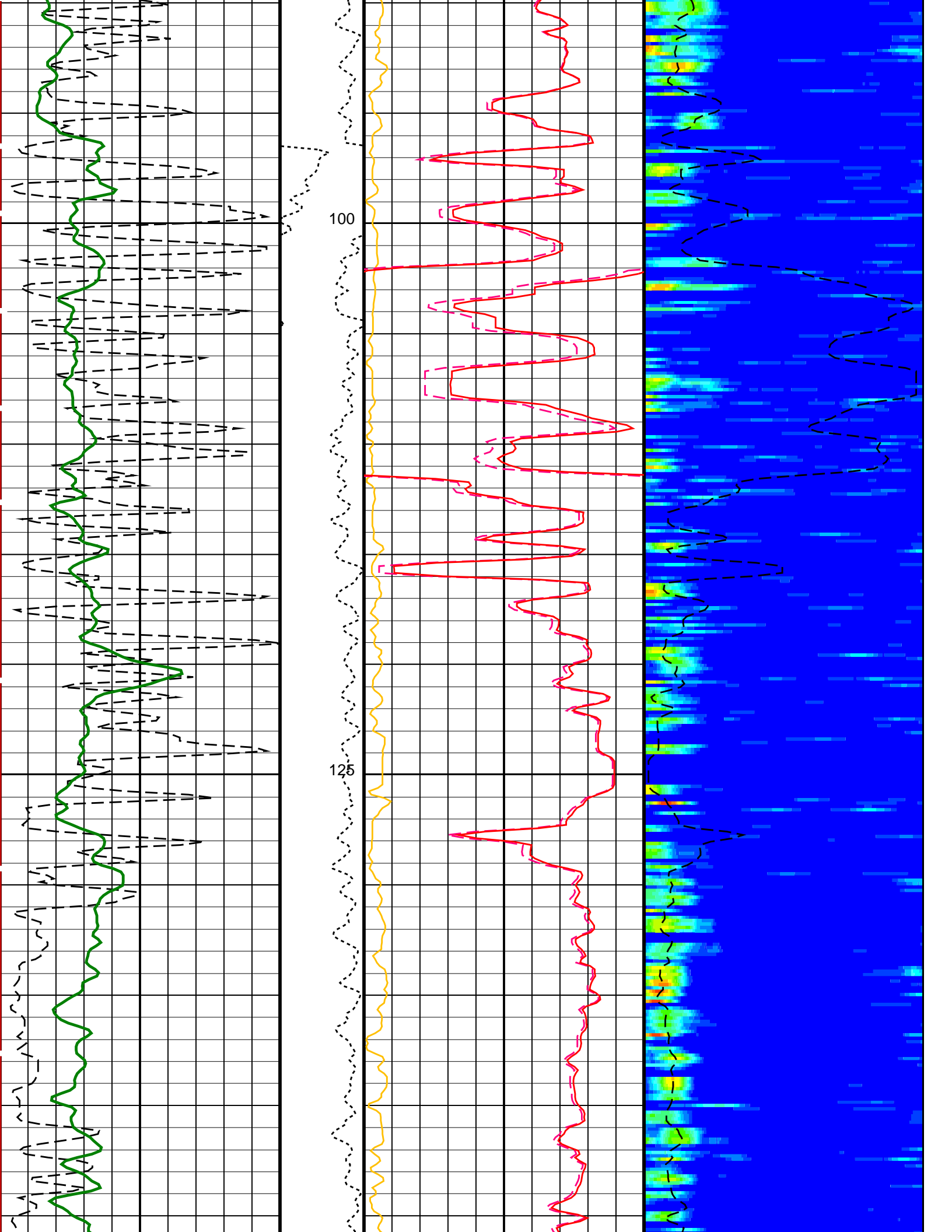
PIP SUMMARY

Time Mark Every 60 S

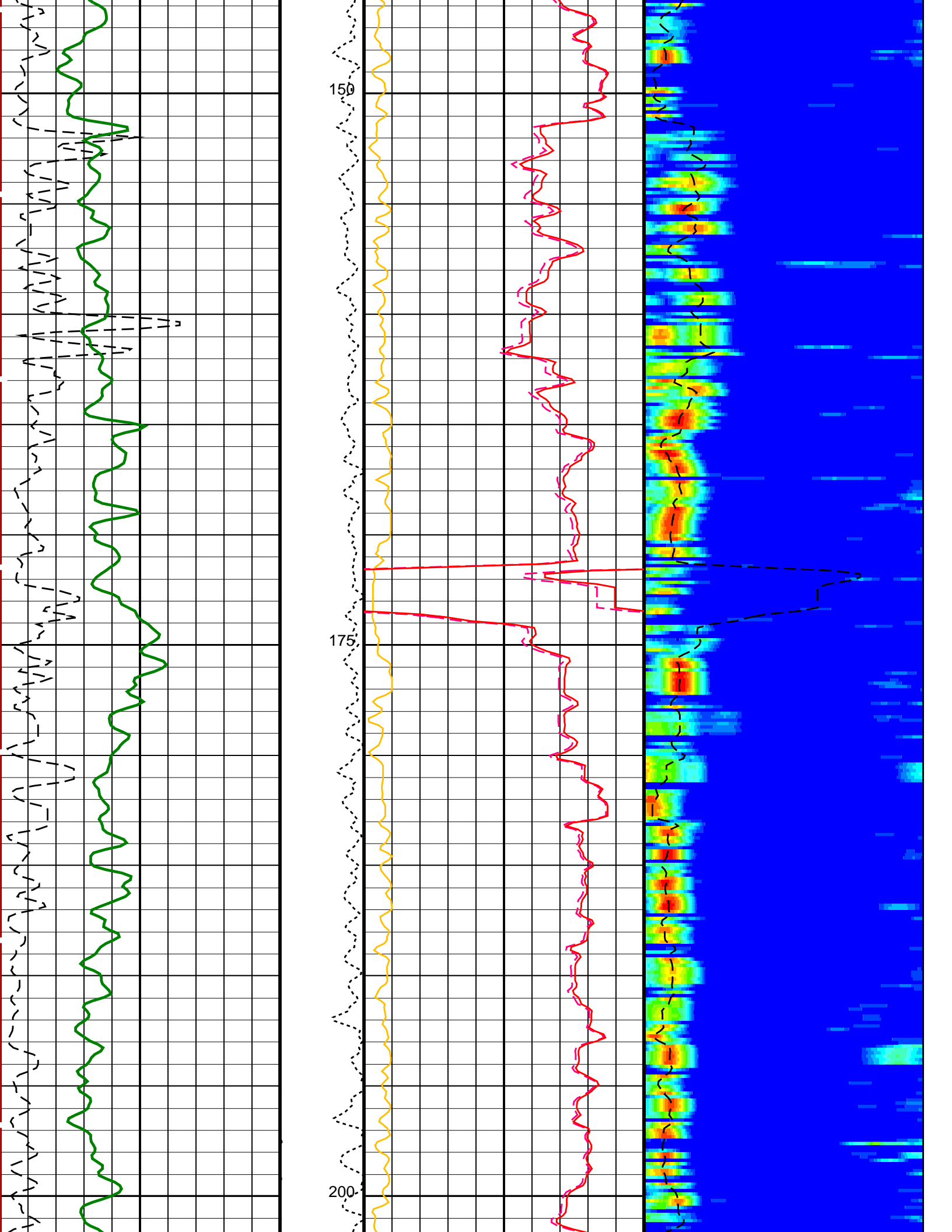
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b> (GAPI) 0 25	<b>Delta-T Shear - Lower Dipole (DT1)</b> 440 (US/F) 40	
<b>Waveform Data Copy Indicator 1 - Lower Dipole (WC1)</b> (----) 0 10	<b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 440 (US/F) 40	<b>Min Amplitude Max</b> Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F) 75 775
<b>SAM1 Waveform Gain (WFG1)</b> (----) 0 1000	<b>Tension (TENS) (LBF)</b> 4000 0 10	<b>Peak Coherence / RA - Lower Dipole (CHR1)</b> (----) 0 10 <b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 75 775

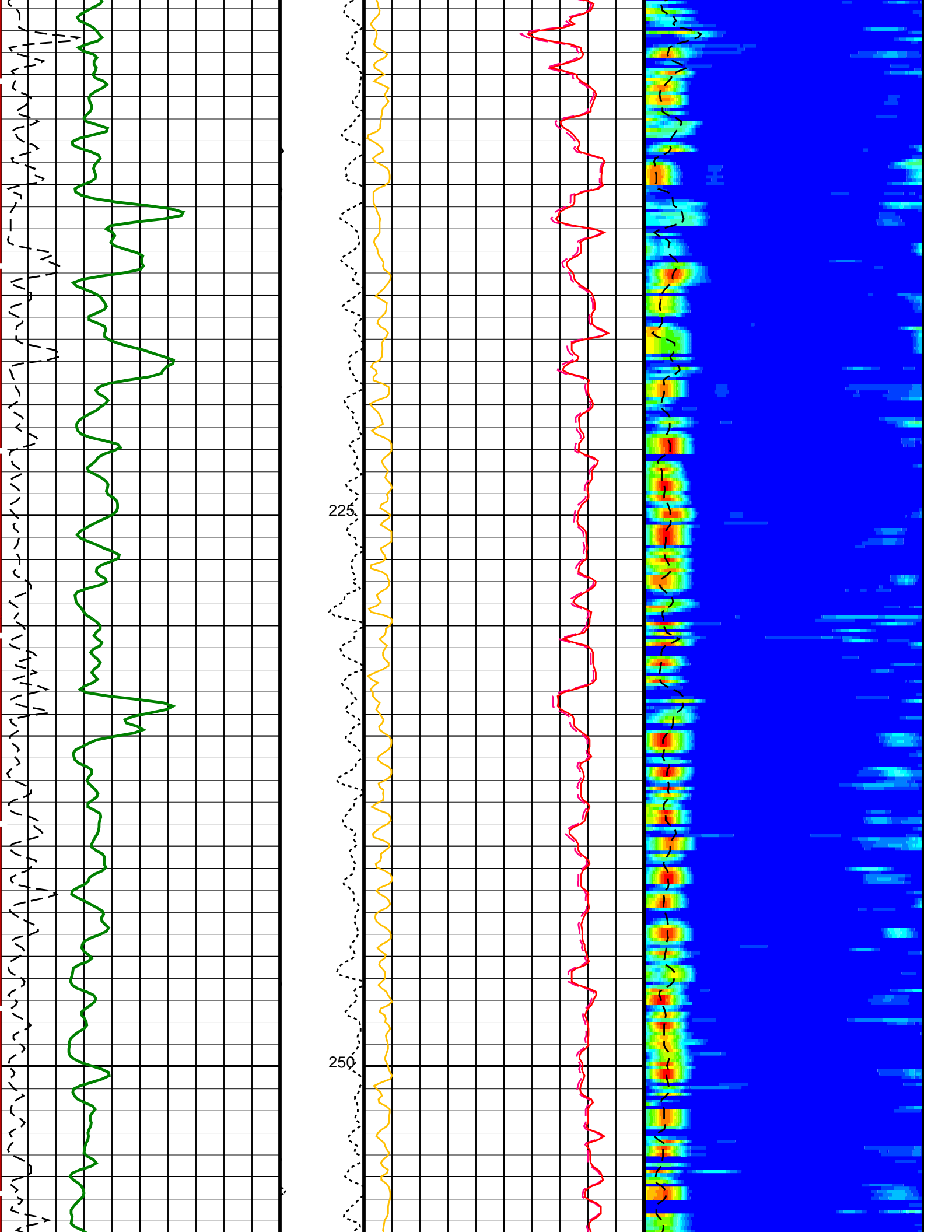


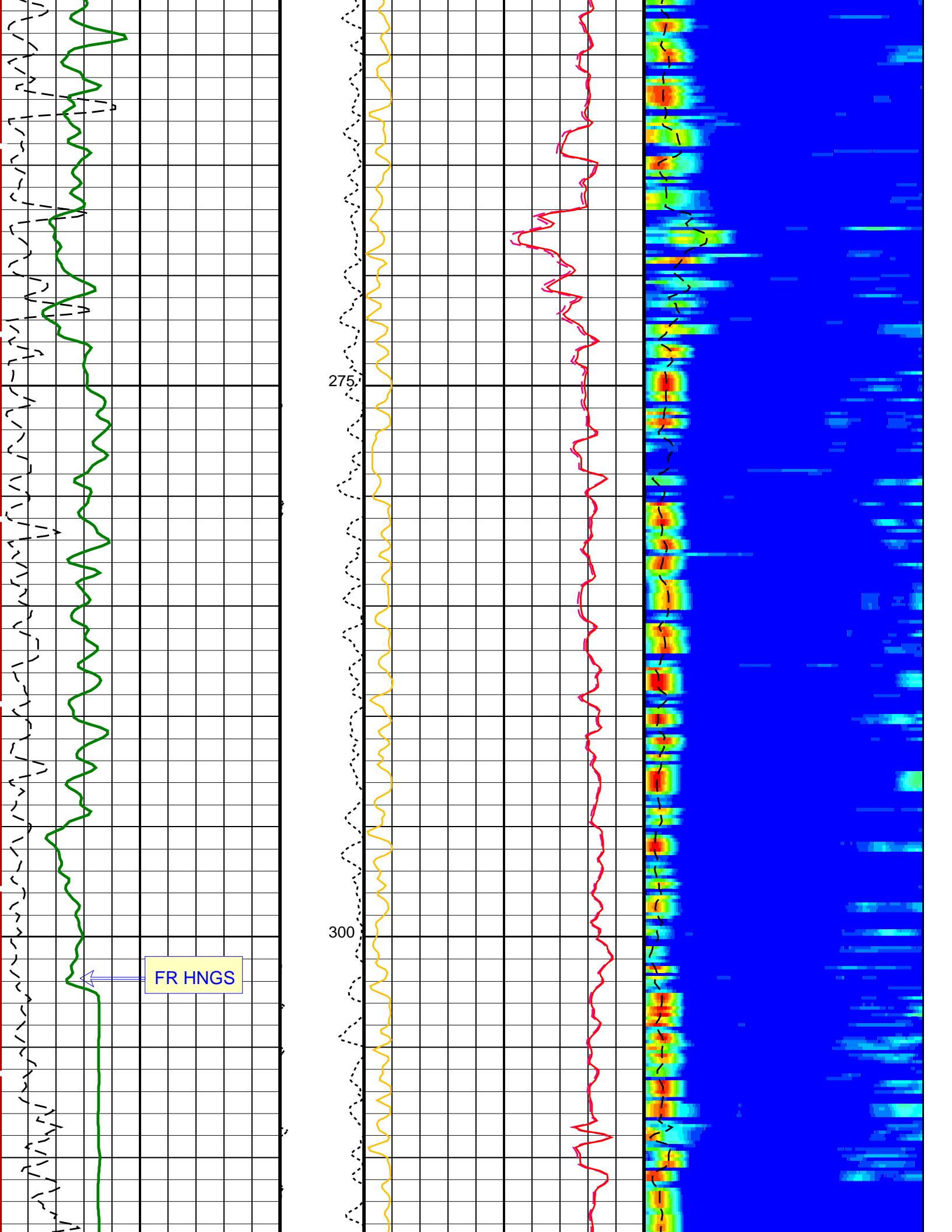


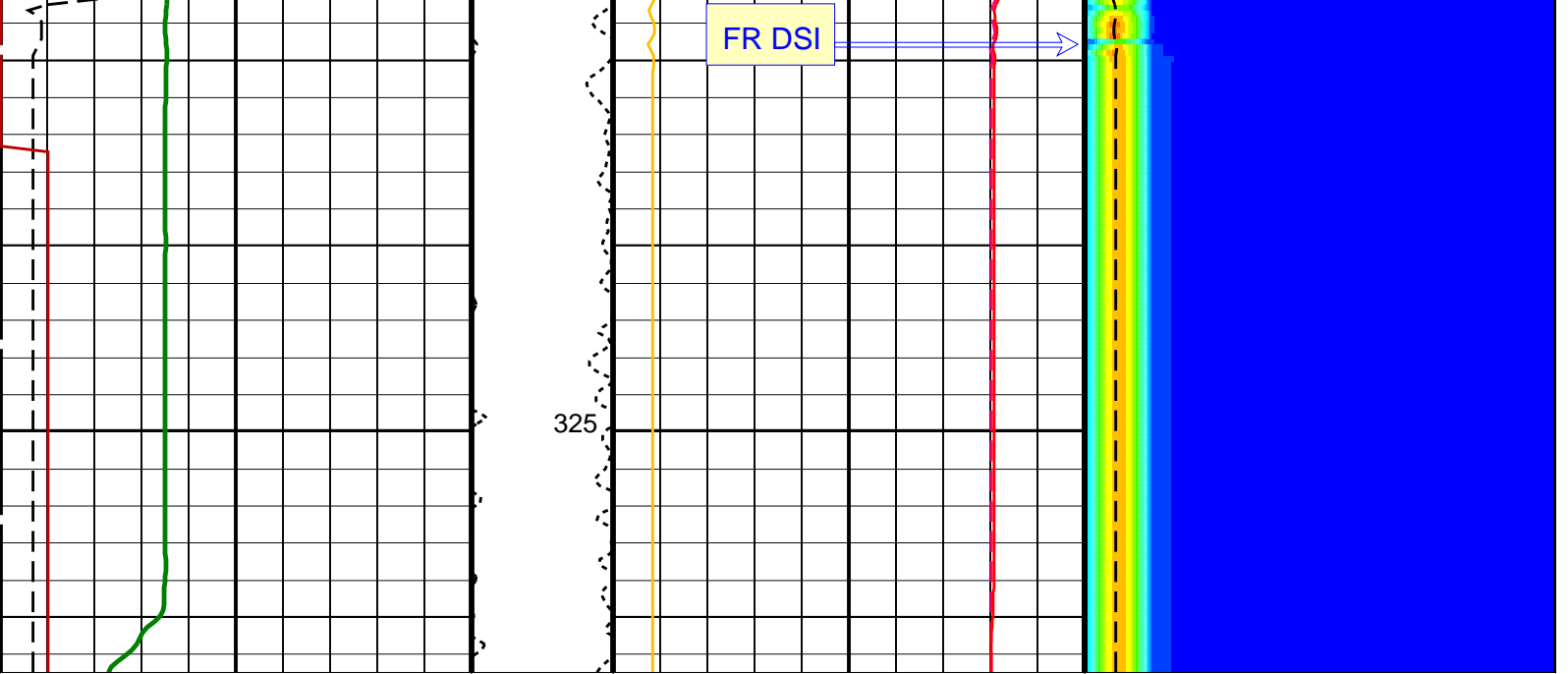












<b>SAM1 Waveform Gain (WFG1)</b> (----) 1000 0	<b>Tension (TENS) (LBF)</b> 4000 6000	<b>Peak Coherence / RA - Lower Dipole (CHR1)</b> (----) 10 0	<b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 775 75
<b>Waveform Data Copy Indicator 1 - Lower Dipole (WC1)</b> (----) 10 0		<b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 40 440	<b>Min Amplitude Max</b> Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F) 775 75
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b> (GAPI) 25 0		<b>Delta-T Shear - Lower Dipole (DT1)</b> (US/F) 40 440	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
<b>DSST-B: Dipole Shear Imager - B</b>		
BHS	Borehole Status	OPEN
DDE1	Digitizing Delay 1	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source - Dipole Shear	USE
DSHL	Label Slowness Lower Limit - Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	775 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCS Channel	PS_COMP
DWC1	Digitizer Word Count 1	512
DWCX	Digitizer Word Count X	512
GCSE	Generalized Caliper Selection	C1
LTXG	Lower Dipole Transmitter Geometry	156 IN
NWI1	Number Waveform Items 1	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
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	EVEN
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS1	STC Sonic Array Status - Lower Dipole	255
SBO1	STC Search Band Offset - Lower Dipole	3000 US
SBW1	STC Search Bandwidth - Lower Dipole	8000 US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE

SFM1	STC Filter - Lower Dipole	B1-3K	
SLL1	STC Slowness Lower Limit - Lower Dipole	75	US/F
SST1	STC Slowness Step - Lower Dipole	4	US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit - Lower Dipole	775	US/F
SWD1	STC Slowness Width - Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0	US
TLL1	STC Time Lower Limit - Lower Dipole	600	US
TST1	STC Time Step - Lower Dipole	200	US
TUL1	STC Time Upper Limit - Lower Dipole	15912.5	US
TWD1	STC Time Width - Lower Dipole	2000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.00680191	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07438	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07443	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-4423.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST\_LOWER\_DIPOLE\_VDL\_COLOR Vertical Scale: 1:200 Graphics File Created: 10-Nov-2011 18:38

### 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_034LUP	FN:33	PRODUCER	03-Nov-2011 21:58	4754.9 M	4414.3 M
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### Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:54	PRODUCER	10-Nov-2011 18:38
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**Schlumberger**

**Up Pass #1**

MAXIS Field Log

# Input DLIS Files

DEFAULT FMS\_DSI\_NGS\_033LUP FN:32 PRODUCER 03-Nov-2011 20:51 4757.2 M 4483.6 M

# Output DLIS Files

DEFAULT FMS\_DSI\_NGS\_056PUP FN:52 PRODUCER 10-Nov-2011 18:29 333.8 M 60.0 M

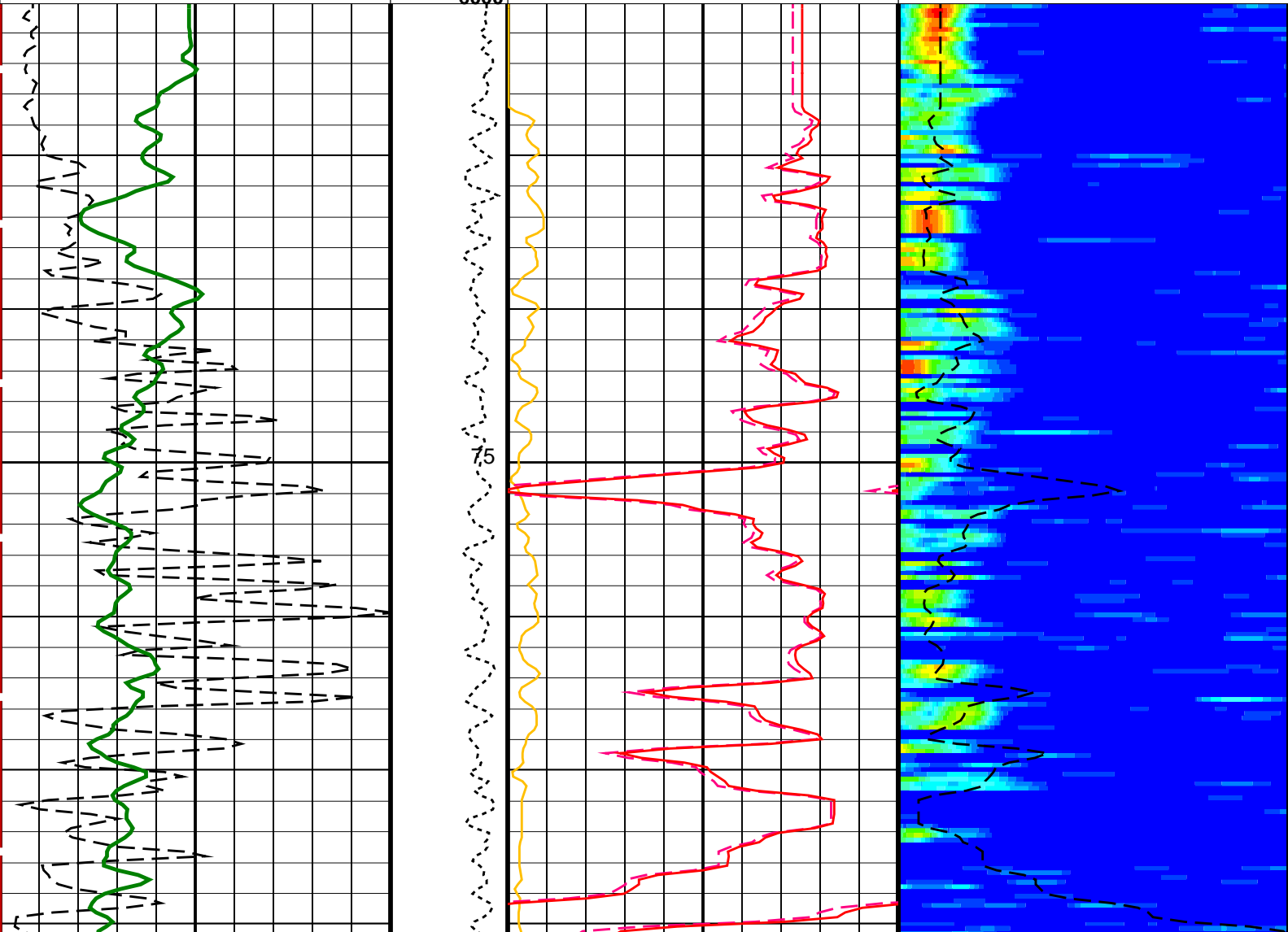
## OP System Version: 19C0-187

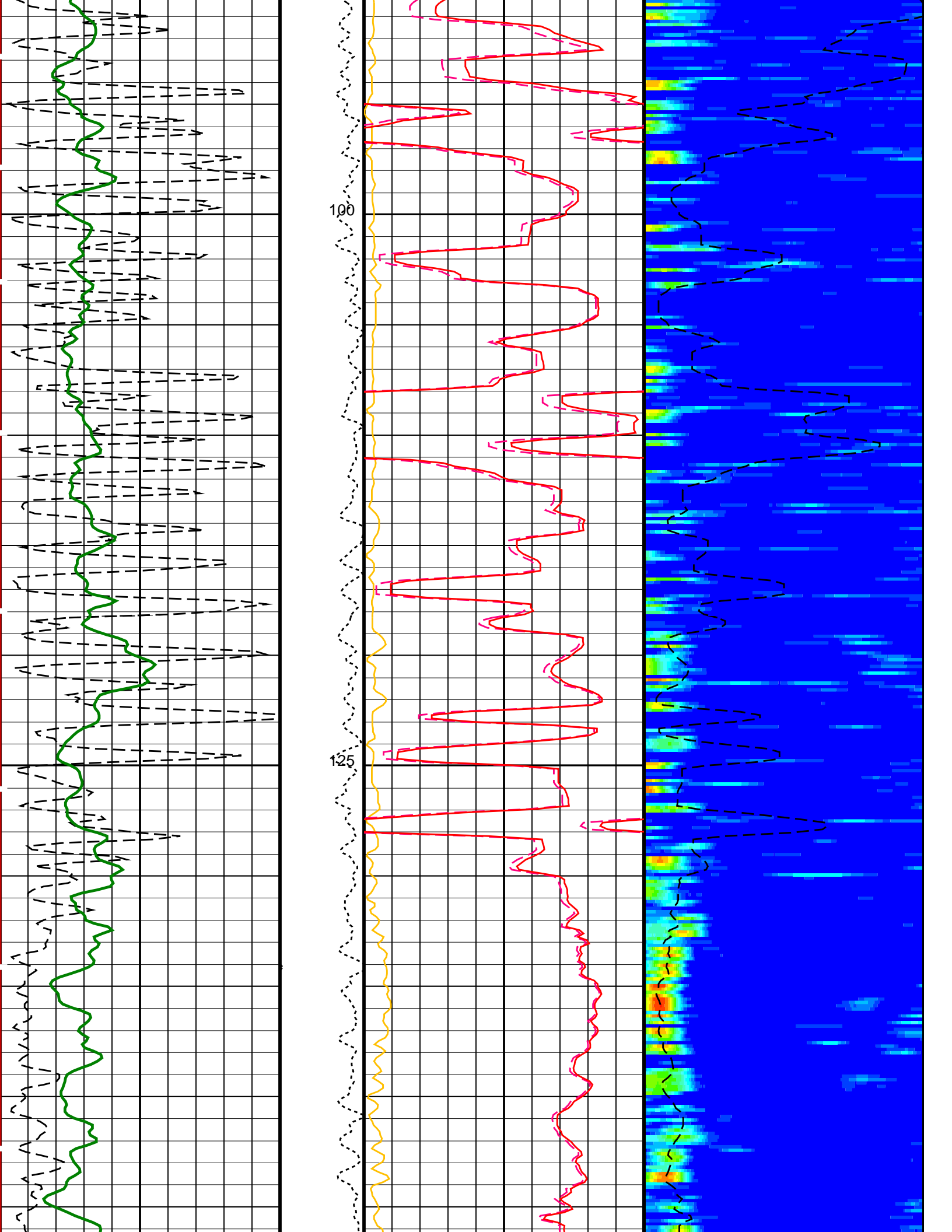
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

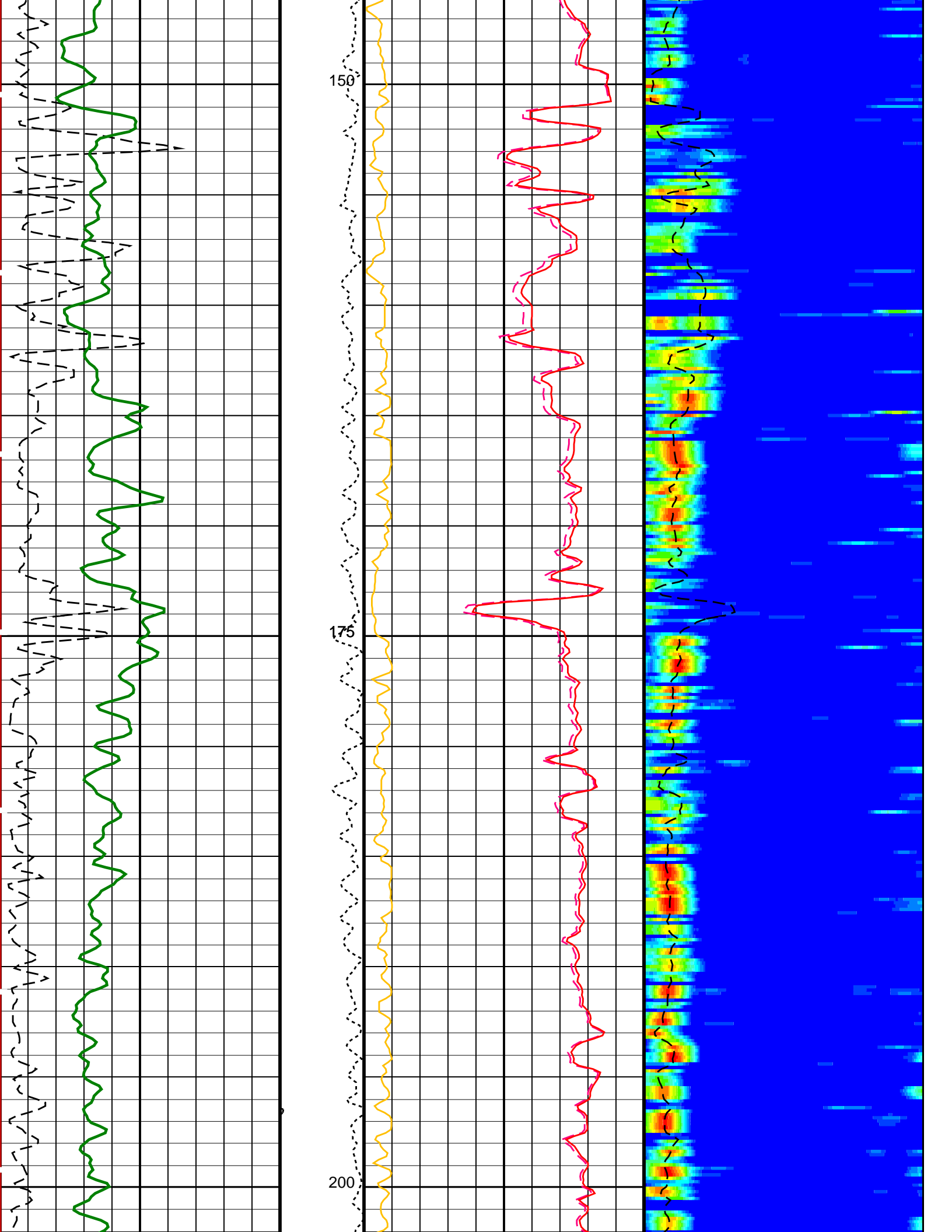
### PIP SUMMARY

Time Mark Every 60 S

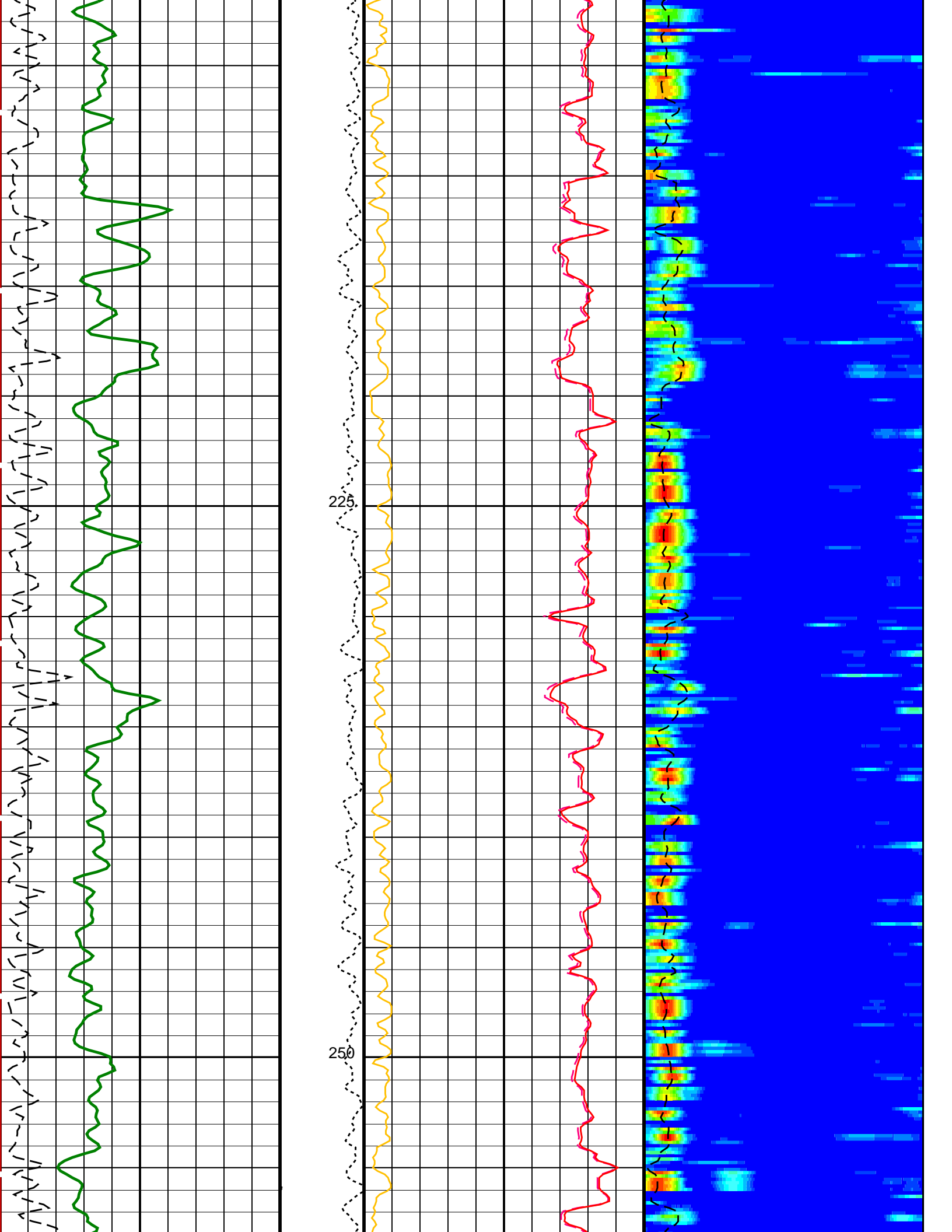
<p><b>HNGS Spectroscopy Gamma Ray (HSGR)</b> 0 (GAPI) 25</p>	<p><b>Delta-T Shear - Lower Dipole (DT1)</b> 440 (US/F) 40</p>	
<p><b>Waveform Data Copy Indicator 1 - Lower Dipole (WC11)</b> 0 (----) 10</p>	<p><b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> 440 (US/F) 40</p>	<p>Min Amplitude Max 75 Rec.Array L.Dipole Slow Proj. CVDL (US/F) 775</p>
<p><b>SAM1 Waveform Gain (WFG1)</b> 0 (----) 1000</p>	<p><b>Tension (TENS) (LBF)</b> 4000 6000</p>	<p><b>Peak Coherence / RA - Lower Dipole (CHR1)</b> 0 (----) 10</p> <p><b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> 75 (US/F) 775</p>

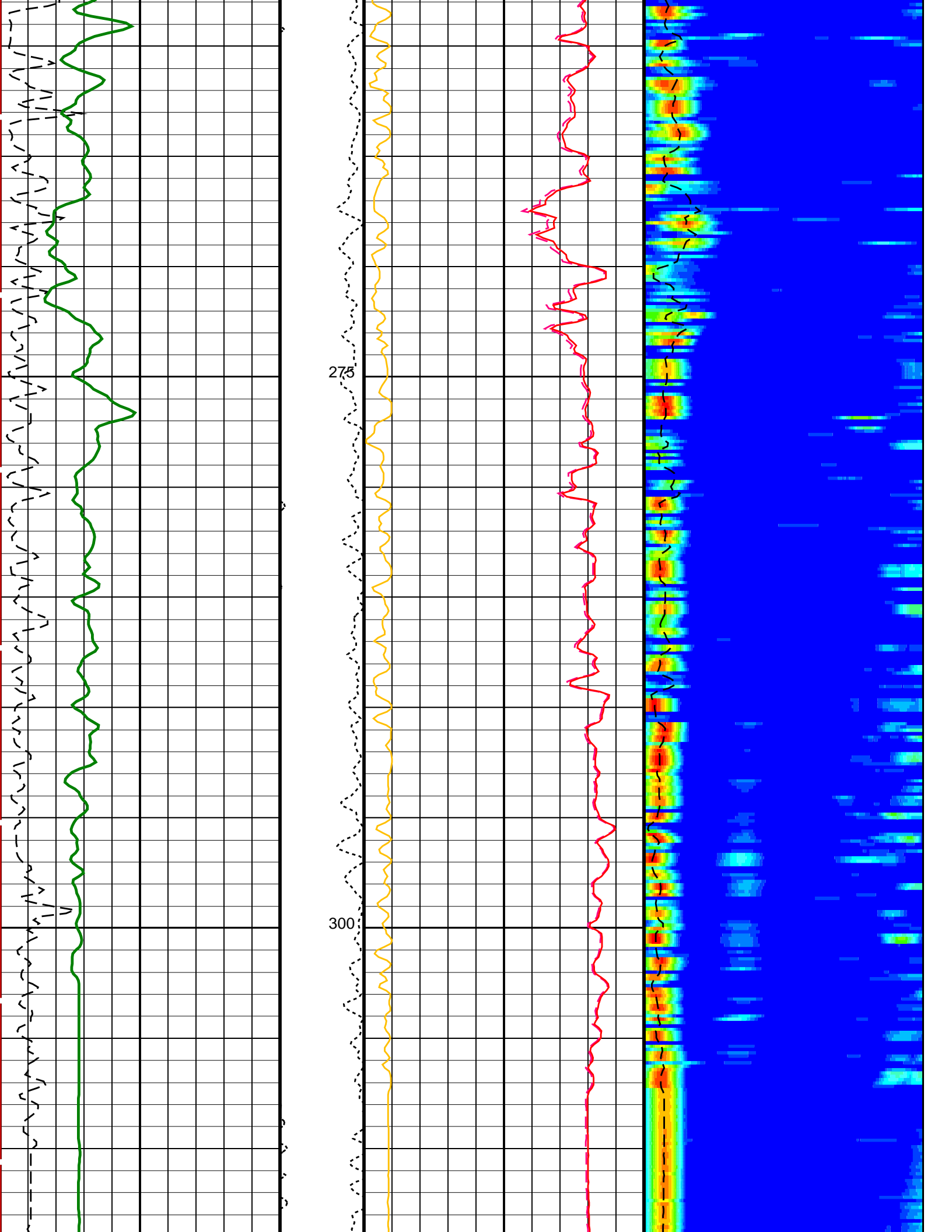


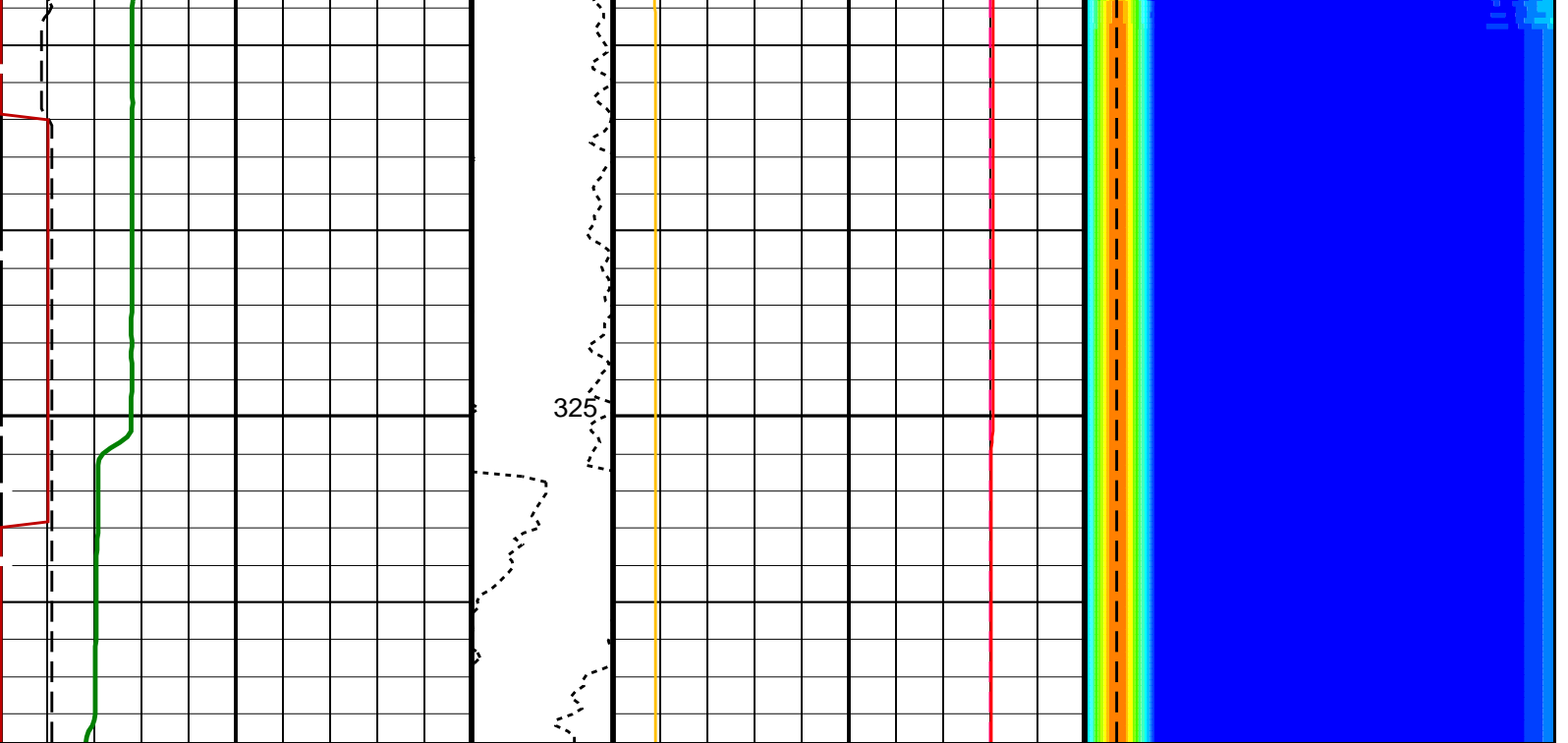












<b>SAM1 Waveform Gain (WFG1)</b> (----) 0 1000	<b>Tension (TENS) (LBF)</b> 4000 6000	<b>Peak Coherence / RA - Lower Dipole (CHR1)</b> (----) 0 10	<b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 75 775
<b>Waveform Data Copy Indicator 1 - Lower Dipole (WC1)</b> (----) 0 10		<b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 440 40	<b>Min Amplitude Max</b> <b>Rec.Array L.Dipole Slow Proj. CVDL (SPR1)</b> (US/F) 75 775
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b> (GAPI) 0 25		<b>Delta-T Shear - Lower Dipole (DT1)</b> (US/F) 440 40	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
DDE1	Digitizing Delay 1	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source - Dipole Shear	USE
DSHL	Label Slowness Lower Limit - Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	775 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCS Channel	PS_COMP
DWC1	Digitizer Word Count 1	512
DWCX	Digitizer Word Count X	512
GCSE	Generalized Caliper Selection	C1
LTXG	Lower Dipole Transmitter Geometry	156 IN
NW11	Number Waveform Items 1	8
NW1X	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
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	EVEN
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS1	STC Sonic Array Status - Lower Dipole	255

SBO1	STC Search Band Offset - Lower Dipole	3000	US
SBW1	STC Search Bandwidth - Lower Dipole	8000	US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE	
SFM1	STC Filter - Lower Dipole	B1-3K	
SLL1	STC Slowness Lower Limit - Lower Dipole	75	US/F
SST1	STC Slowness Step - Lower Dipole	4	US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit - Lower Dipole	775	US/F
SWD1	STC Slowness Width - Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0	US
TLL1	STC Time Lower Limit - Lower Dipole	600	US
TST1	STC Time Step - Lower Dipole	200	US
TUL1	STC Time Upper Limit - Lower Dipole	15912.5	US
TWD1	STC Time Width - Lower Dipole	2000	US
TWI1	STC Integration Time Window - Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.00676035	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07291	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07443	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-4423.5	M
PP	Playback Processing	RECOMPUTE	

Format: DSST\_LOWER\_DIPOLE\_VDL\_COLOR      Vertical Scale: 1:200      Graphics File Created: 10-Nov-2011 18:29

### 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_033LUP	FN:32	PRODUCER	03-Nov-2011 20:51	4757.2 M	4483.6 M
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### Output DLIS Files

DEFAULT	FMS_DSI_NGS_056PUP	FN:52	PRODUCER	10-Nov-2011 18:29
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Down Log

### Input DLIS Files

DEFAULT Flip\_FMS\_DSI\_NGS\_042LUP PRODUCER 10-Nov-2011 17:22 4757.0 M 4366.3 M

### Output DLIS Files

DEFAULT FMS\_DSI\_NGS\_055PUP FN:51 PRODUCER 10-Nov-2011 18:25 331.8 M -59.0 M

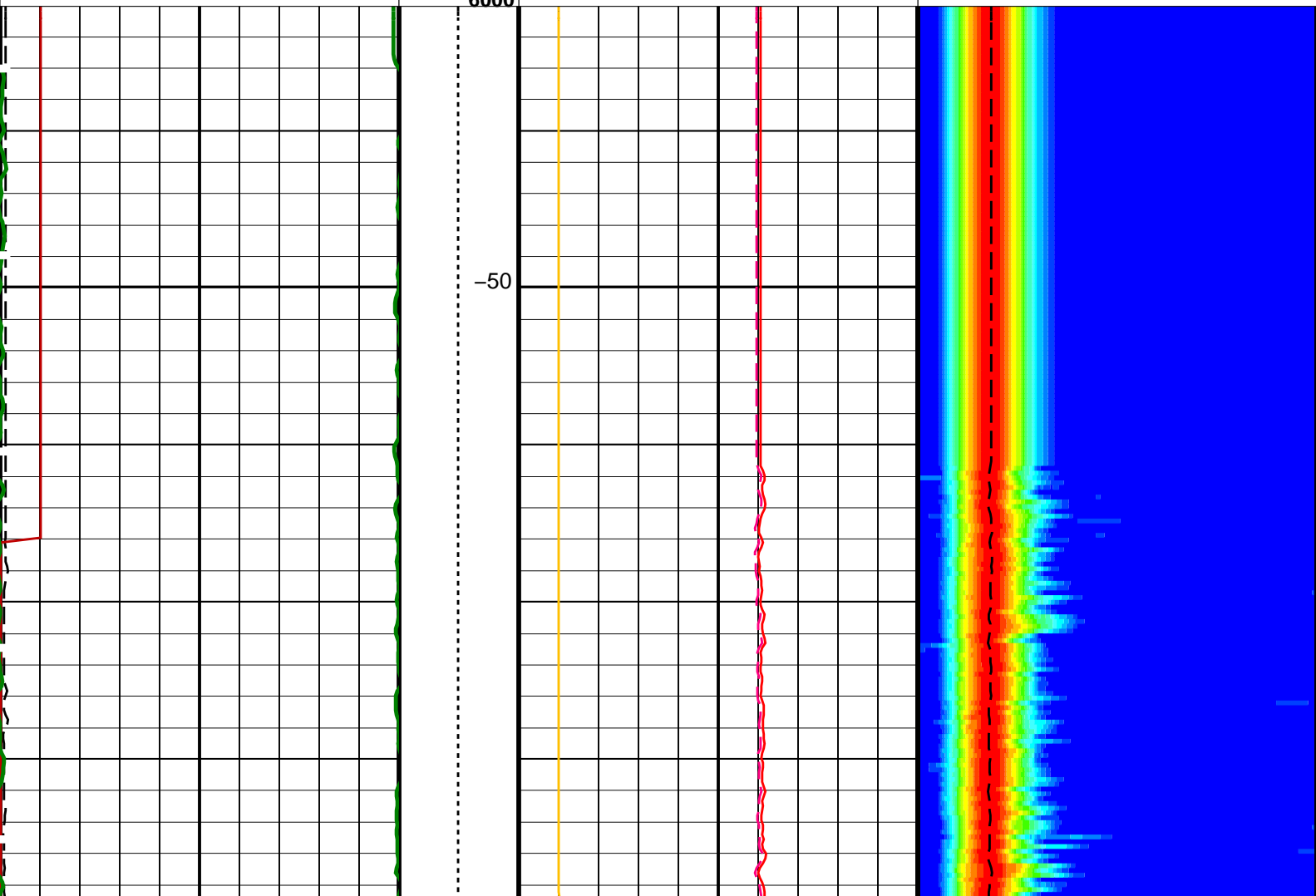
### OP System Version: 19C0-187

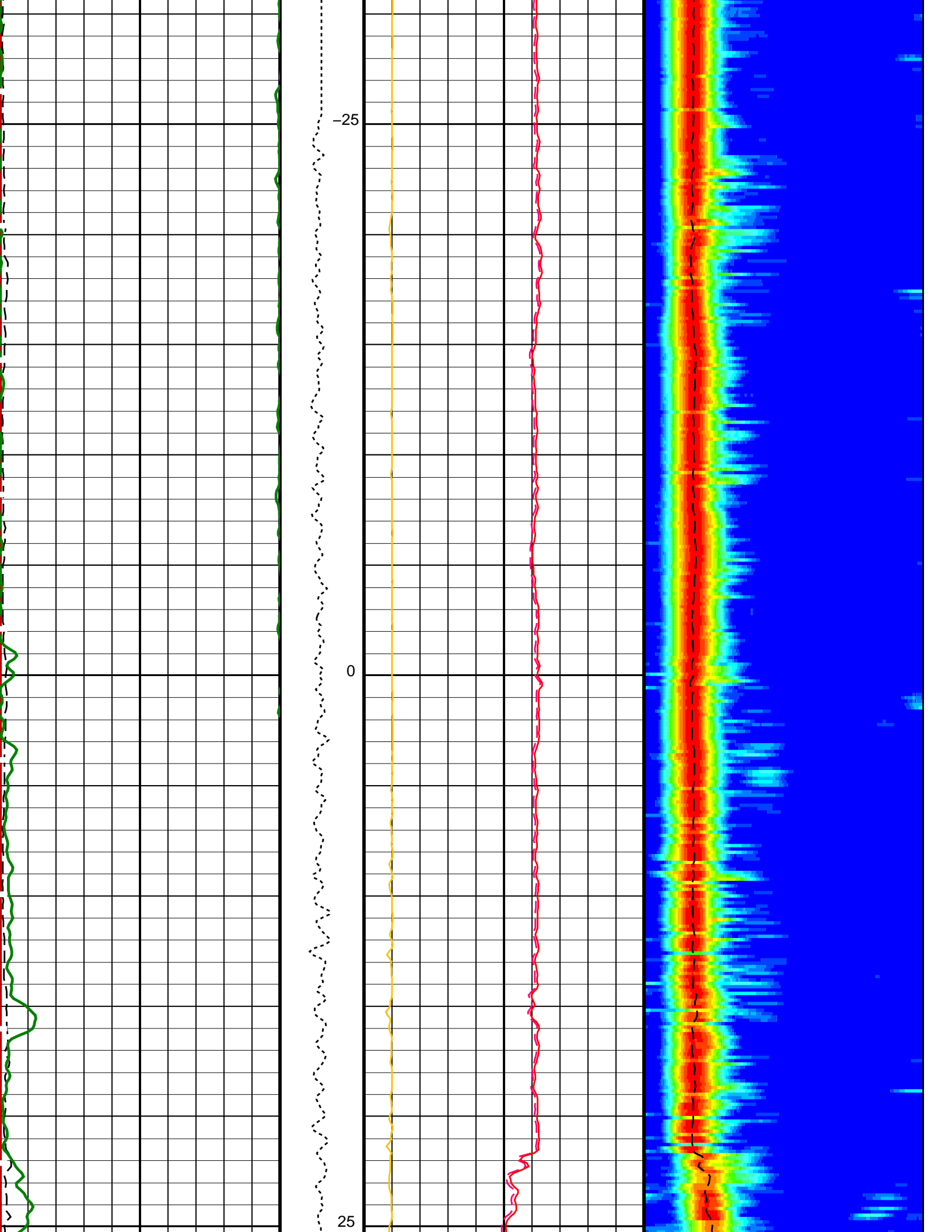
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

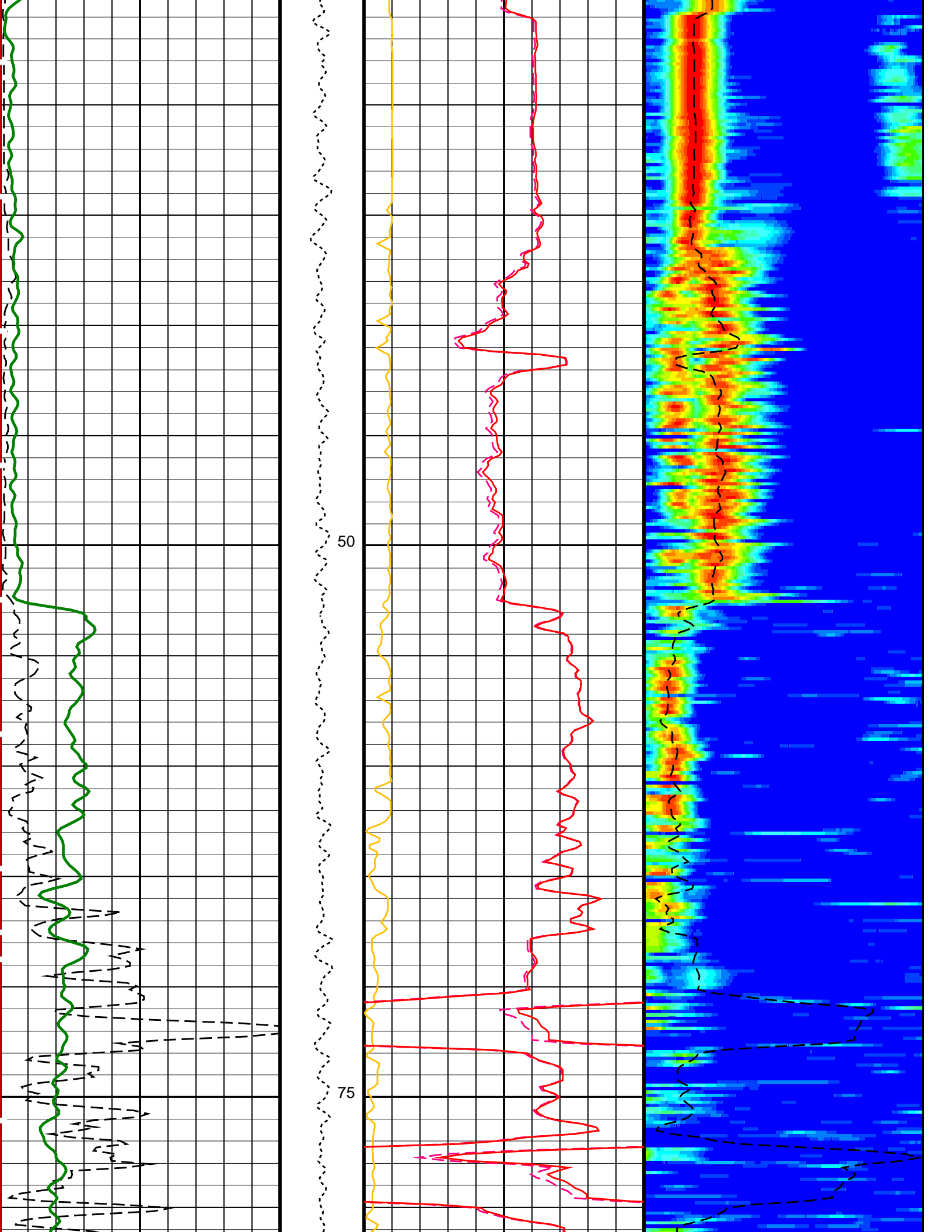
#### PIP SUMMARY

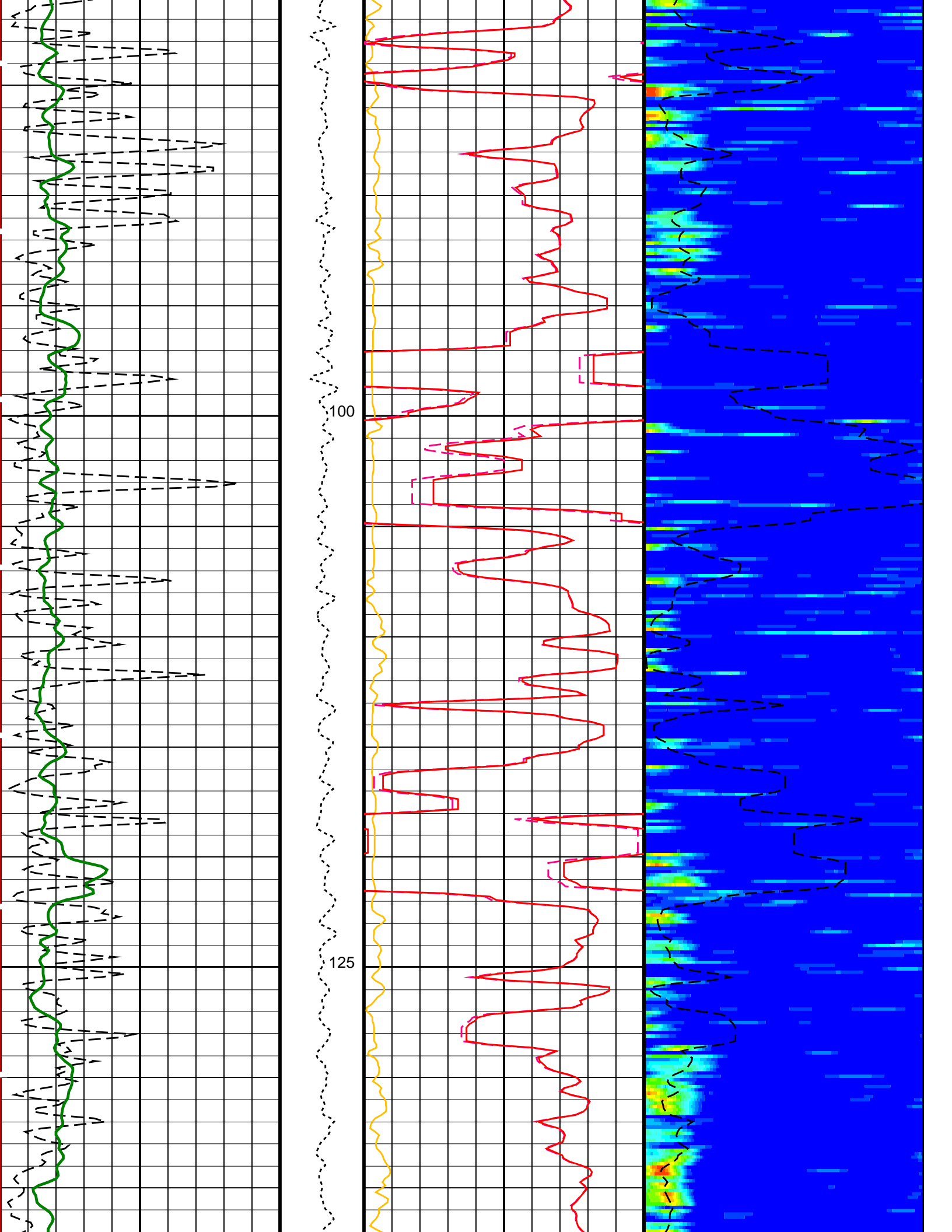
Time Mark Every 60 S

<p><b>HNGS Spectroscopy Gamma Ray (HSGR)</b> (GAPI) 0 25</p>	<p><b>Delta-T Shear - Lower Dipole (DT1)</b> (US/F) 440 40</p>	<p>Min <span style="display: inline-block; width: 100px; height: 10px; background: linear-gradient(to right, blue, cyan, green, yellow, orange, red);"></span> Max</p> <p>Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F) 75 775</p>
<p><b>Waveform Data Copy Indicator 1 - Lower Dipole (WC11)</b> (----) 0 10</p>	<p><b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 440 40</p>	
<p><b>SAM1 Waveform Gain (WFG1)</b> (----) 0 1000</p>	<p><b>Tension (TENS) (LBF)</b> 4000 6000</p>	<p><b>Peak Coherence / RA - Lower Dipole (CHR1)</b> (----) 0 10</p>
		<p><b>Delta-T Shear / RA - Lower Dipole (DT1R)</b> (US/F) 75 775</p>

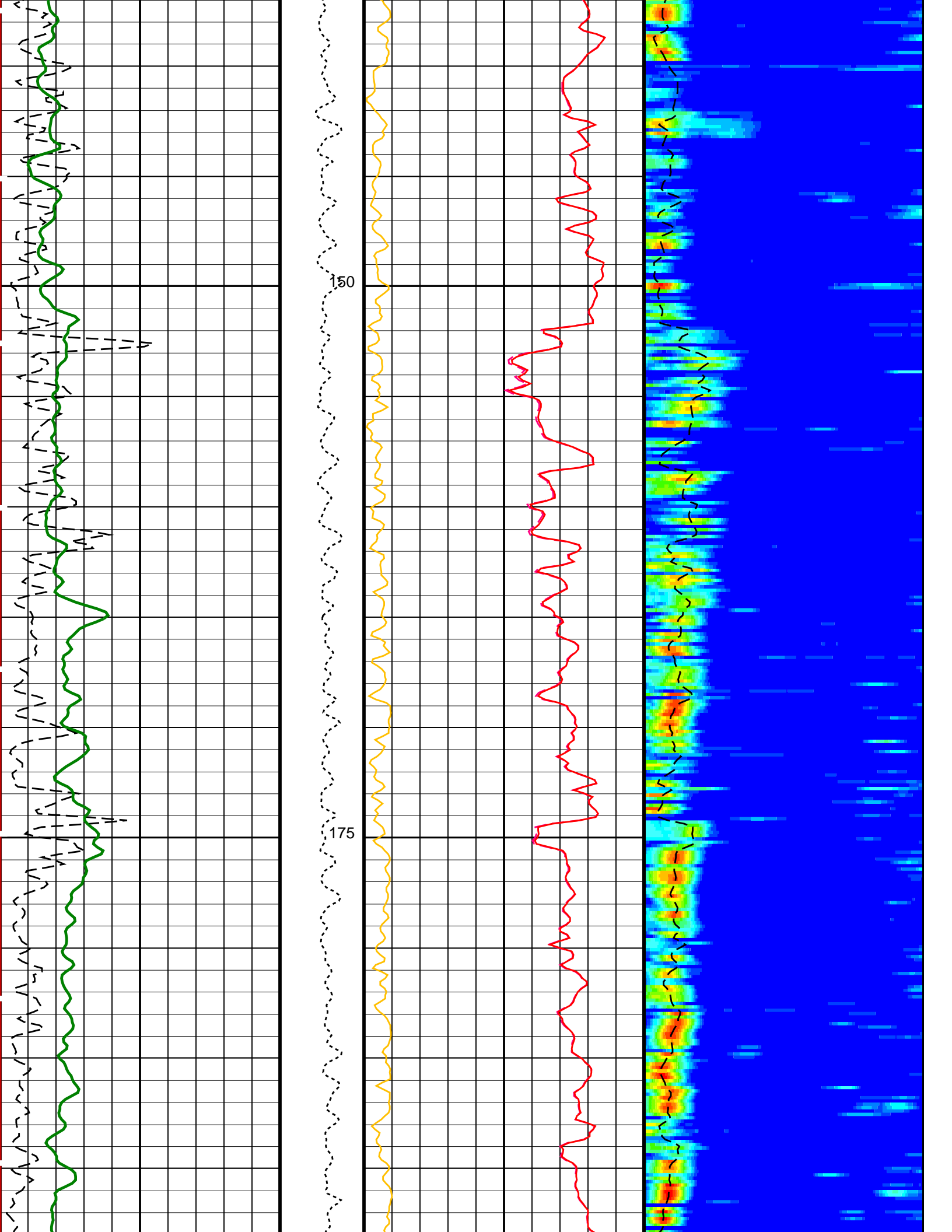


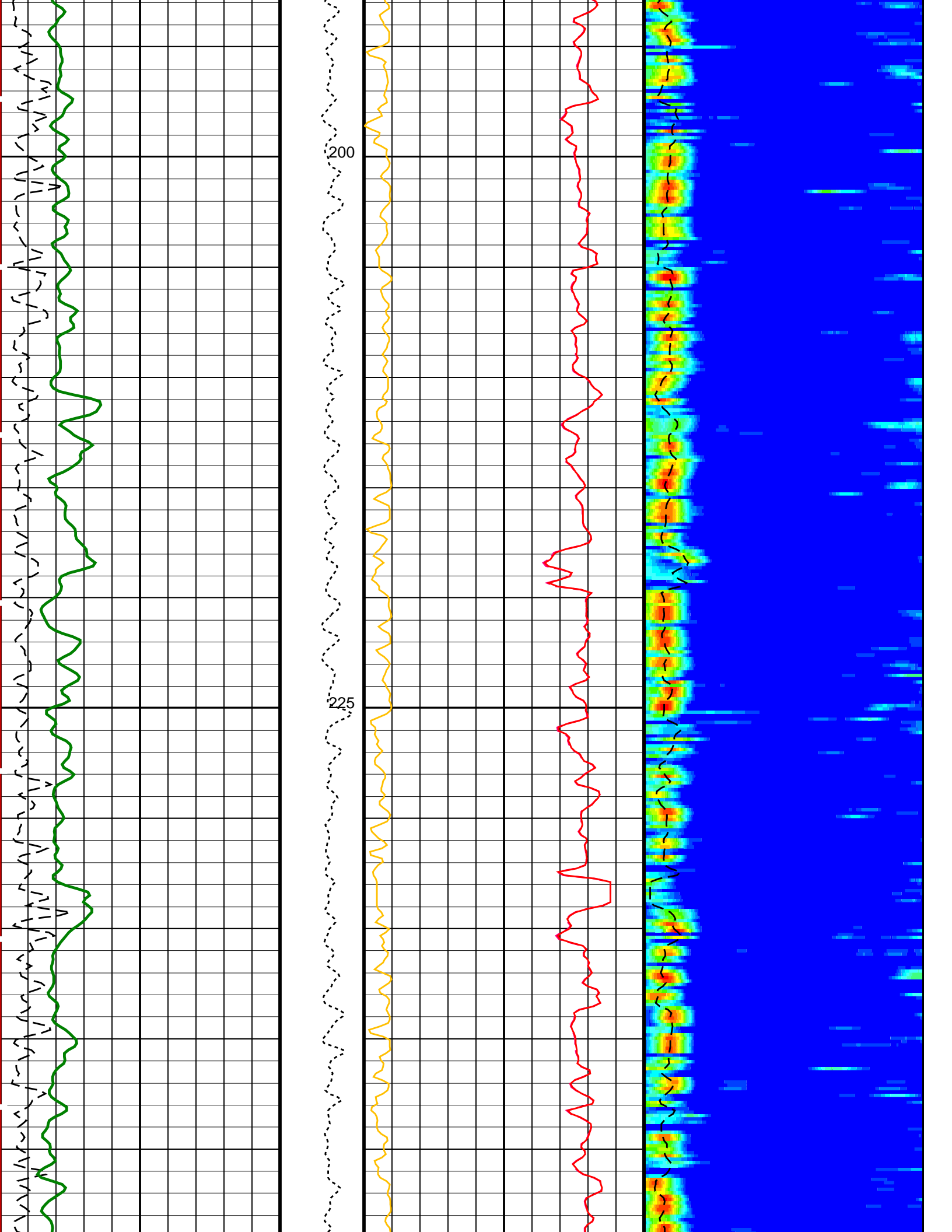


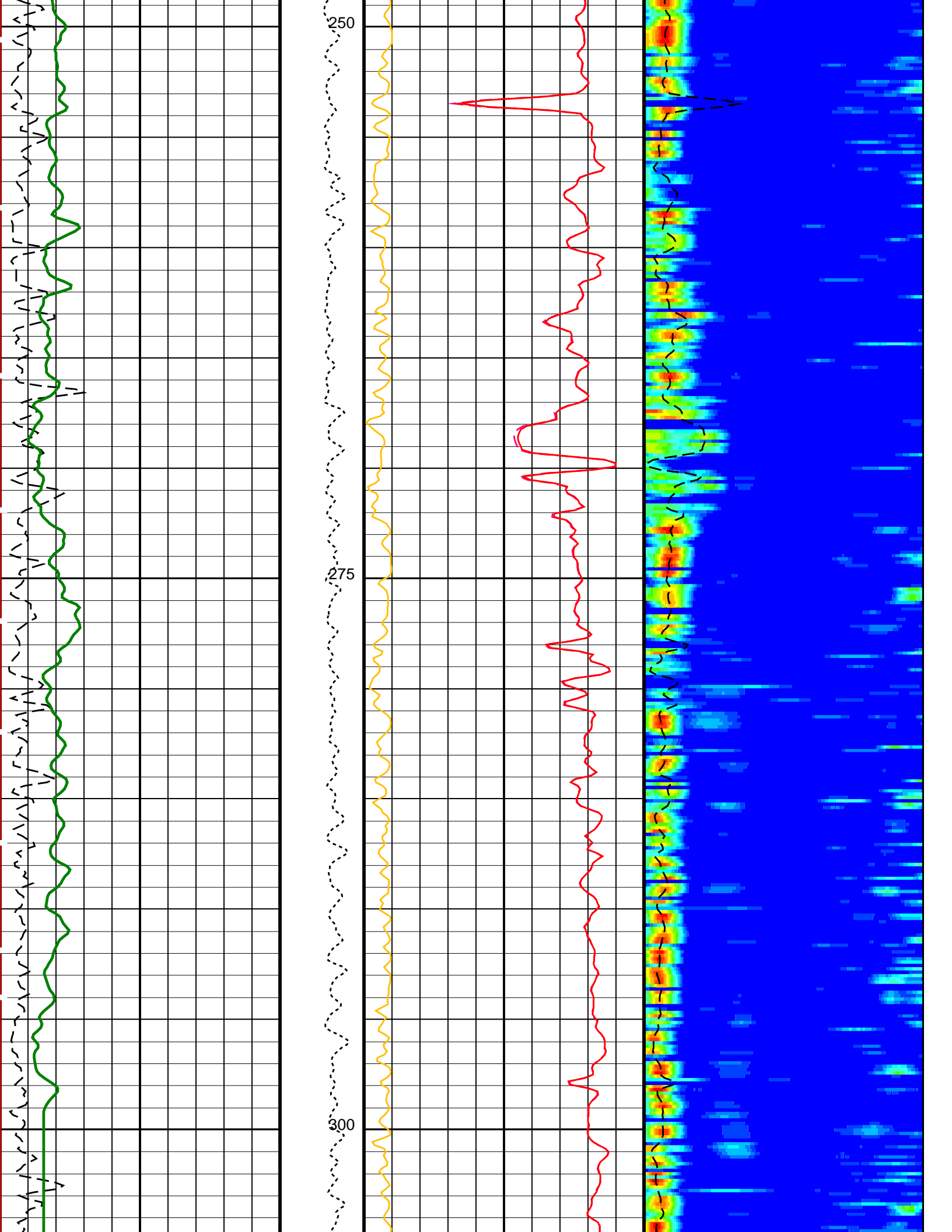


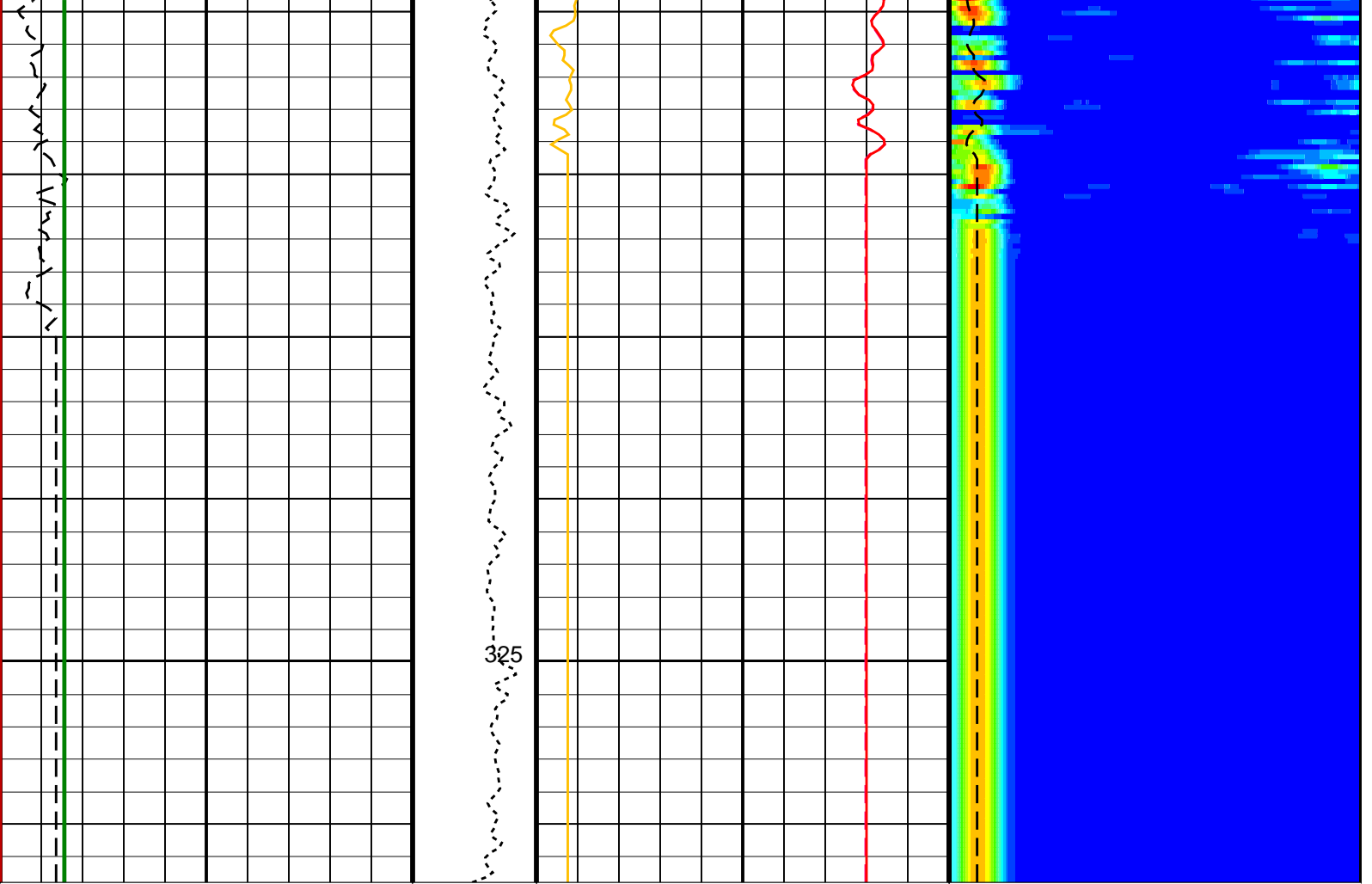












<b>SAM1 Waveform Gain (WFG1)</b> 0 (----) 1000	<b>Tension (TENS) (LBF)</b> 4000 6000	<b>Peak Coherence / RA - Lower Dipole (CHR1)</b> 0 (----) 10	<b>Delta-T Shear / RA - Lower Dipole (DT1R) (US/F)</b> 75 (----) 775
<b>Waveform Data Copy Indicator 1 - Lower Dipole (WC1)</b> 0 (----) 10		<b>Delta-T Shear / RA - Lower Dipole (DT1R) (US/F)</b> 440 (----) 40	Min Amplitude Max Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F) 75 775
<b>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</b> 0 (----) 25		<b>Delta-T Shear - Lower Dipole (DT1) (US/F)</b> 440 (----) 40	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
DDE1	Digitizing Delay 1	0 US
DDEX	Digitizing Delay X	0 US
DLCS	Label Compressional Source - Dipole Shear	USE
DSHL	Label Slowness Lower Limit - Dipole Shear	75 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	775 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSIX	Digitizer Sample Interval X	40 US
DTCS	Compressional Delta-T Source for DTCS Channel	PS_COMP
DWC1	Digitizer Word Count 1	512
DWCX	Digitizer Word Count X	512
GCSE	Generalized Caliper Selection	C1
LTXG	Lower Dipole Transmitter Geometry	156 IN
NW11	Number Waveform Items 1	8
NW1X	Number Waveform Items X	0
RX1G	Receiver 1 Geometry	294 IN
RX2G	Receiver 2 Geometry	292 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	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B1-3K	
SLL1	STC Slowness Lower Limit – Lower Dipole	75	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit – Lower Dipole	775	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	15912.5	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.00676035	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07291	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07443	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-4425.3	M
PP	Playback Processing	NORMAL	

Format: DSST\_LOWER\_DIPOLE\_VDL\_COLOR Vertical Scale: 1:200 Graphics File Created: 10-Nov-2011 18:25

## 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	Flip_FMS_DSI_NGS_042LUP	PRODUCER	10-Nov-2011 17:22	4757.0 M	4366.3 M
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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_055PUP	FN:51	PRODUCER	10-Nov-2011 18:25
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## MAXIS Field Log

## Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: 25–Oct–2011 2:04							
Caliper 1 Zero Measurement	12.00	N/A	12.06	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.10	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.24	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.39	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 3–Nov–2011 17:07							
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: 3–Nov–2011 17:07							
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–Sep–2011 14:01 Before: 3–Nov–2011 17:16 After: 3–Nov–2011 23:20							
Na 511 Peak Loc	40.00	39.54	39.70	39.69	-0.002346	1.000	
Na 511 Peak Res	15.50	16.51	15.16	15.04	-0.1195	2.000	%
High Voltage	1150	1190	1179	1177	-2.204	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.6	142.0	-0.6493	7.000	
Na 1785 Peak Res	8.500	8.871	7.721	8.436	0.7150	2.000	%
Temperature	15.50	35.19	30.01	29.00	-1.011	N/A	DEGC
Na Count Rate	45.00	22.03	19.93	19.01	-0.9185	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 15–Sep–2011 14:01 Before: 3–Nov–2011 17:16 After: 3–Nov–2011 23:20							
Na 511 Peak Loc	40.00	39.52	39.46	39.62	0.1623	1.000	
Na 511 Peak Res	15.50	16.45	15.61	16.48	0.8699	2.000	%
High Voltage	1150	1121	1111	1110	-0.9961	N/A	V
Na 1785 Peak Loc	142.6	142.5	142.9	142.5	-0.3818	7.000	
Na 1785 Peak Res	8.500	8.764	7.834	8.489	0.6548	2.000	%
Temperature	15.50	35.72	31.24	30.68	-0.5593	N/A	DEGC
Na Count Rate	45.00	22.83	20.04	19.20	-0.8319	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 15–Sep–2011 14:01 Before: 3–Nov–2011 17:16 After: 3–Nov–2011 23:20							
Coincidence Count Rate Ratio	1.000	0.9670	0.9932	0.9903	-0.002906	0.05000	

## Micro Electrical Scanner – B (Slim) / Equipment Identification

## Primary Equipment:

MEST Sonde – B	MEDS – B	770
MEST Preamplifier Cartridge – AB	MEPC – AB	807
GPIT Cartridge – A	GPIC – A	840
MEST Acquisition Cartridge – A	MEAC – A	875

## Auxiliary Equipment:

MEST–B Preamplifier Cartridge Housing	MEPH – A	702
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	726

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 Gamma Source Radioactive	HNSH – BA GSR – U	205 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		39.54	Master		16.51	Master		1190	
Before		39.70	Before		15.16	Before		1179	
After		39.69	After		15.04	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		141.9	Master		8.871	Master		35.19	
Before		142.6	Before		7.721	Before		30.01	
After		142.0	After		8.436	After		29.00	
	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		22.03							
Before		19.93							
After		19.01							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 15-Sep-2011 14:01			Before: 3-Nov-2011 17:16			After: 3-Nov-2011 23:20			

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		39.52	Master		16.45	Master		1121	
Before		39.46	Before		15.61	Before		1111	
After		39.62	After		16.48	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		142.5	Master		8.764	Master		35.72	
Before		142.9	Before		7.834	Before		31.24	
After		142.5	After		8.489	After		30.68	
	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		22.83							
Before		20.04							
After		19.20							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9670
Before		0.9932
After		0.9903
	<div style="display: flex; justify-content: space-between; width: 100%;"> <span>0.9500 (Minimum)</span> <span>1.000 (Nominal)</span> <span>1.050 (Maximum)</span> </div>	
Master: 15-Sep-2011 14:01		
Before: 3-Nov-2011 17:16		
After: 3-Nov-2011 23:20		

<p><b>Company: Lamont Doherty</b></p> <p><b>Well: Expedition 336, Site U1383C</b></p> <p><b>Field: North Pond</b></p> <p><b>Rig: JOIDES Resolution</b></p> <p><b>Country: USA</b></p>	
<p>DSI – Sonic Lower Dipole</p>	