



Company: Lamont Doherty Earth Observatory

Well: Expedition 346, Site U1430B

Field: Asian Monsoon

Rig: JOIDES Resolution Country: USA

DSI  
P & S Monopole

Latitude: N 37° 54.1595'  
Longitude: E 131° 32.2499'

Elev.: K.B. -1082.90 m  
G.L. 0.00 m  
D.F. -1082.90 m

Permanent Datum: Sea Floor Elev.: 0.00 m  
Log Measured From: Drill Floor -1082.90 m above Perm. Datum  
Drilling Measured From: Drill Floor

Ocean: Pacific Max. Well Deviation 0 deg Longitude E 131.537\* Latitude N 37.903\*

JOIDES Resolution  
Asian Monsoon  
Location: N 37° 54.1595'  
Expedition 346, Site U1430B  
Company: Lamont Doherty Earth Observatory

LOCATION

Logging Date	20-Sep-2013				
Run Number	3				
Depth Driller	275 m				
Schlumberger Depth	271.2 m				
Bottom Log Interval	251.5 m				
Top Log Interval	79.5 m				
Casing Driller Size @ Depth	5.500 in @ 79.5 m				
Casing Schlumberger	79.5 m				
Bit Size	11.438 in				
Type Fluid In Hole	WBM				
MUD Density	Viscosity	1.26 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	@ 15	@ 15	@	@
Maximum Recorded Temperatures	15 degC				
Circulation Stopped	Time	20-Sep-2013	0:30		
Logger On Bottom	Time	20-Sep-2013	5:35		
Unit Number	Location	625003	Houston		
Recorded By	C. Furman				
Witnessed By	J. Lofi				

	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	Viscosity		
MUD 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			

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1

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

REMARKS: RUN NUMBER 1

Hole drilled and cored using APC/XCB coring system.

LFV Actuator (Go-Devil) run attached to bottom of MSS for LFV locking open / closed.

Logs recorded from drill floor (1082.9m 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.

Caliper closed at 96mbsf to facilitate pipe entry; AHC not used due to very low heave.

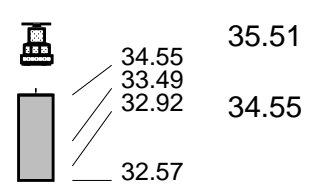

Toolstring centered using two MCD bowspring devices and FMS Caliper.

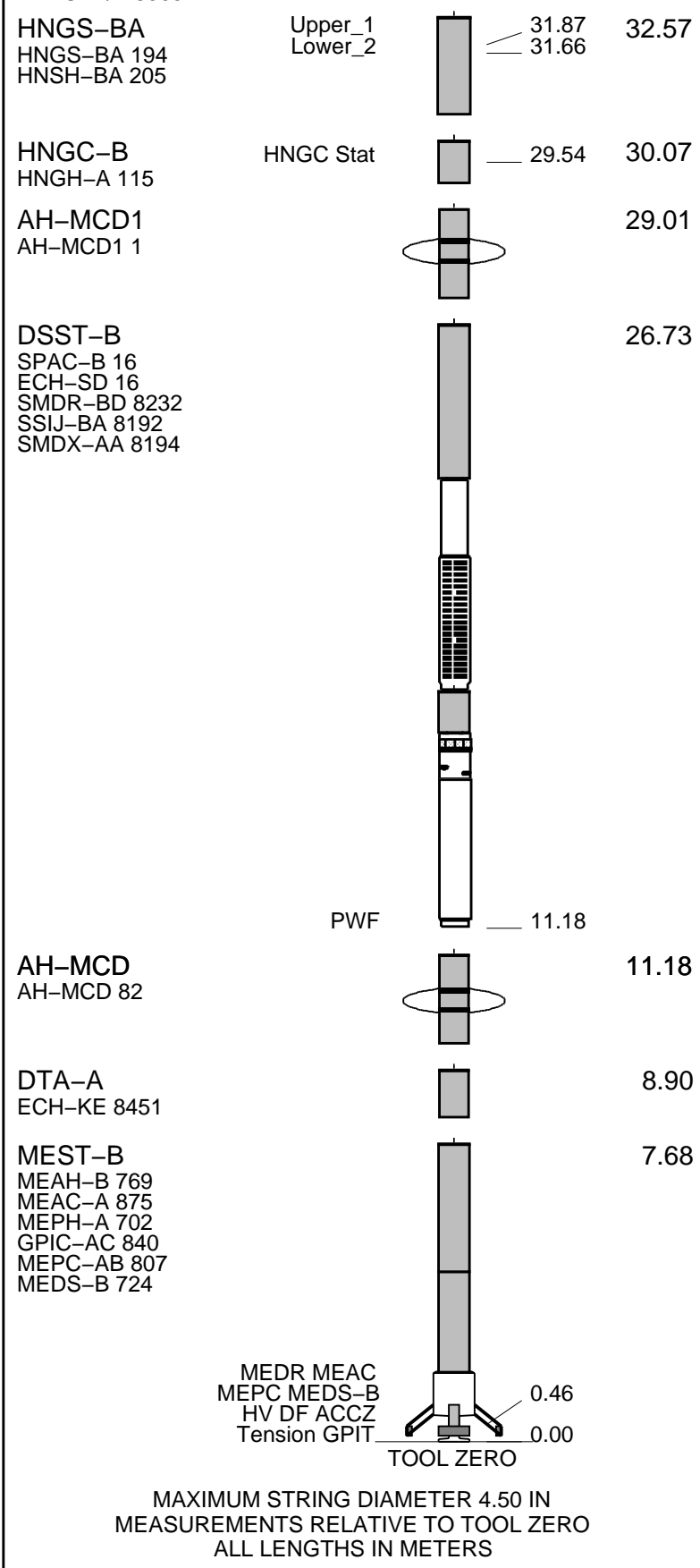
DSI run with P&S, Lower Dipole, Upper Dipole, and Stoneley modes all in standard frequency for all passes.

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	

DOWNHOLE EQUIPMENT			
LEH-MT 101	MDSB_EDTC		35.51
LEH-MT 101 101	Mud Tempe		34.55
	CTEM		33.49
EDTC-B	Gamma Ray		34.55
EDTH-B 8303	EFTB DIAG		32.92
EDTC-B 8317	TelStatus		32.57
EDTG-A/B 8305	EDTCB Ele		



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

Kelly Bushing Elevation

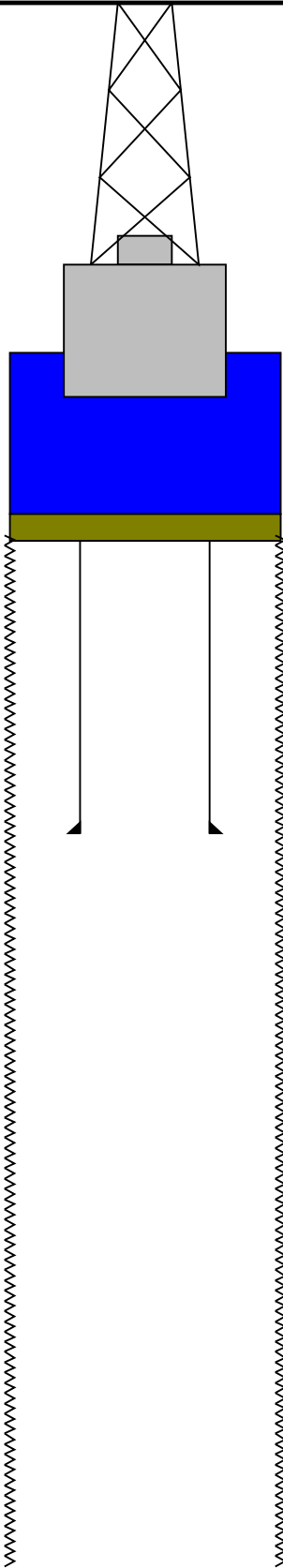
Derrick Floor Elevation

Mean Sea Level

0.0

0.0

11.0



1082.9

11.438

4.000

Sea Bed

1162.4

5.500

4.000

Bit

1357.9

11.438

TD - Driller

**Schlumberger**

**Downlog  
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 346, Site U1430B

**Input DLIS Files**

DEFAULT	Flip_FMS_DSI_NGS_044LUP	PRODUCER	21-Sep-2013 12:55	1356.2 M	1024.1 M
---------	-------------------------	----------	-------------------	----------	----------

**Output DLIS Files**

DEFAULT	FMS_DSI_NGS_048PUP	FN:56	PRODUCER	21-Sep-2013 13:06	274.6 M	-21.8 M
CLIENT	FMS_DSI_NGS_048PUC	FN:57	CUSTOMER	21-Sep-2013 13:06	274.6 M	-20.3 M

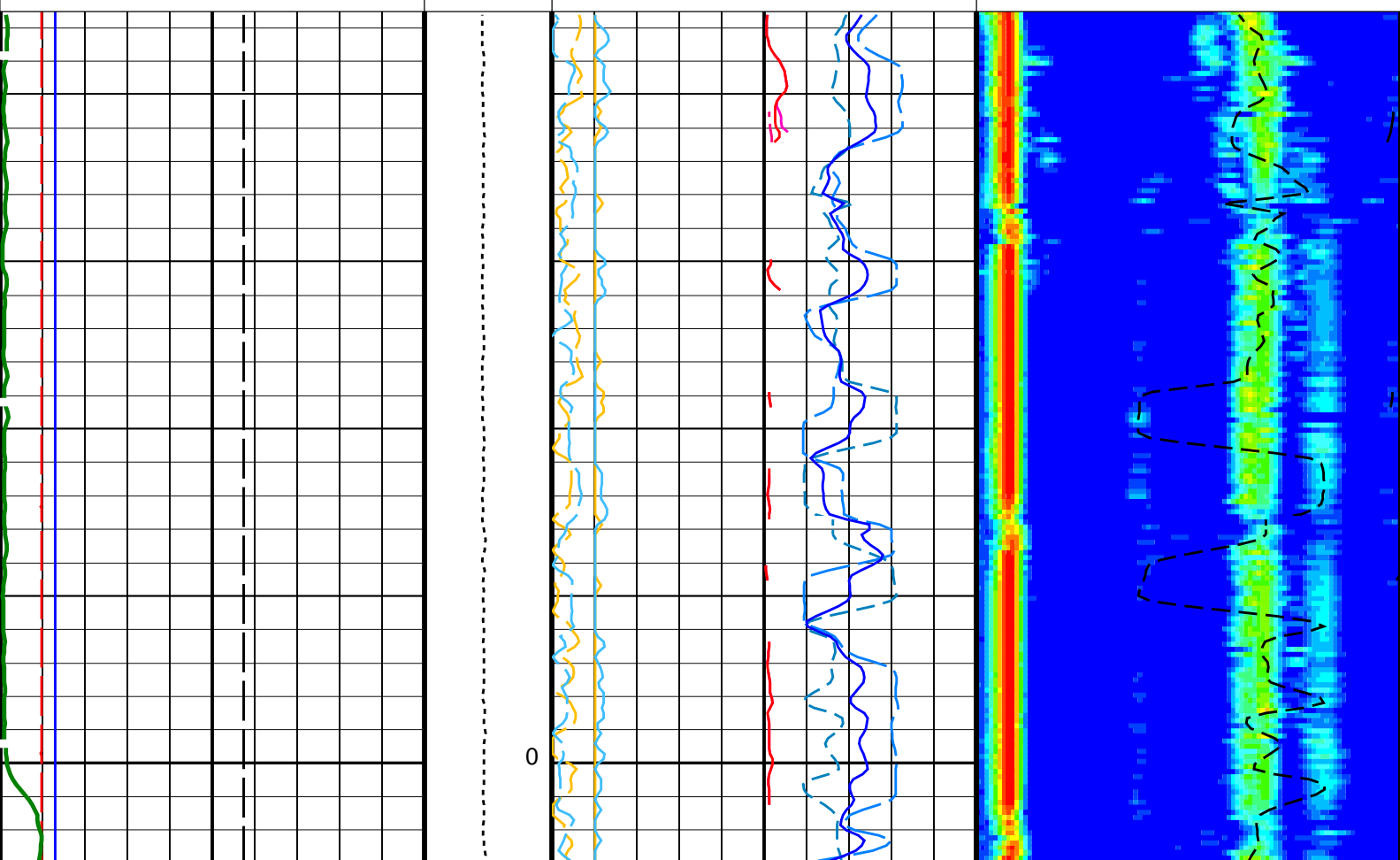
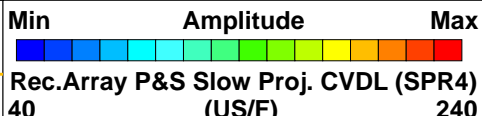
**OP System Version: 19C0-187**

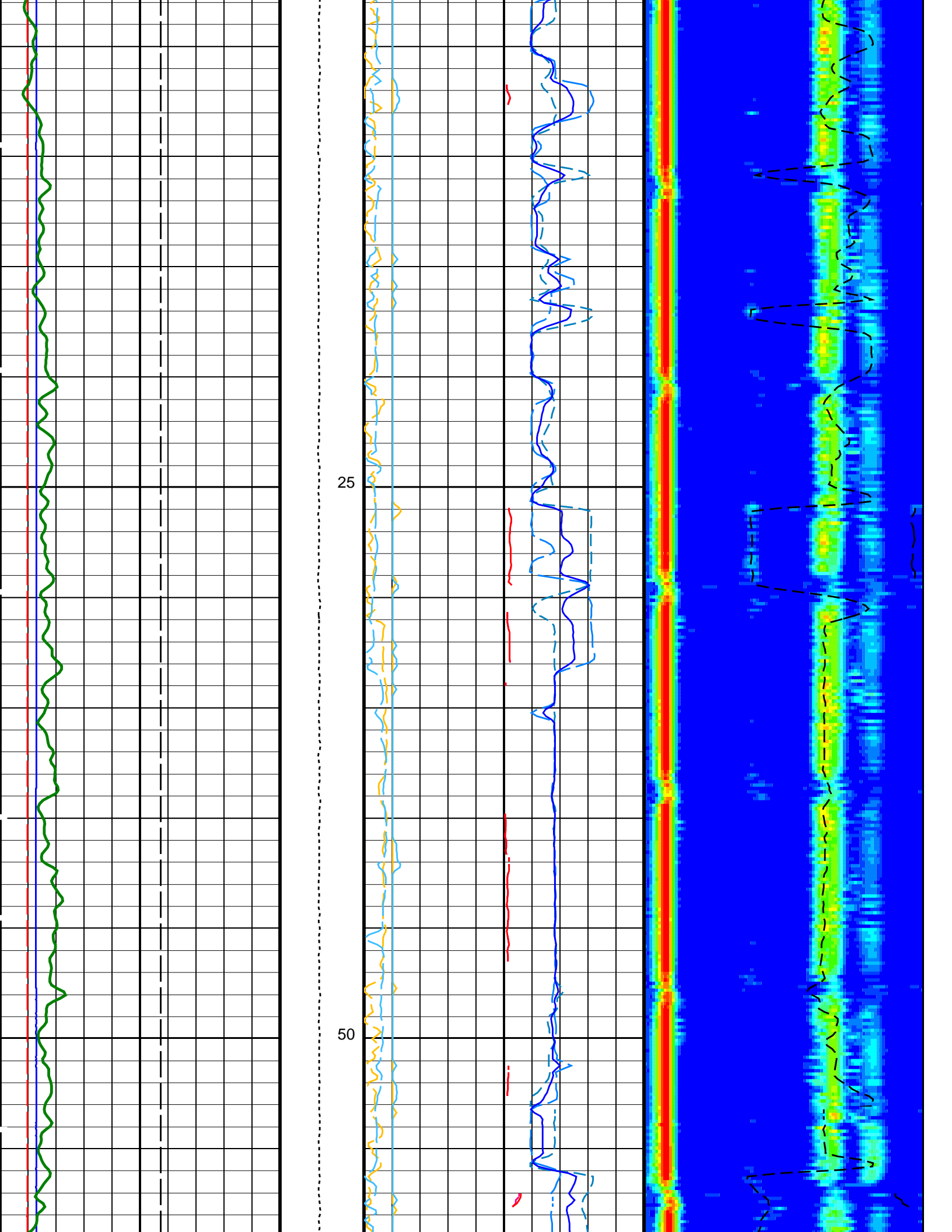
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

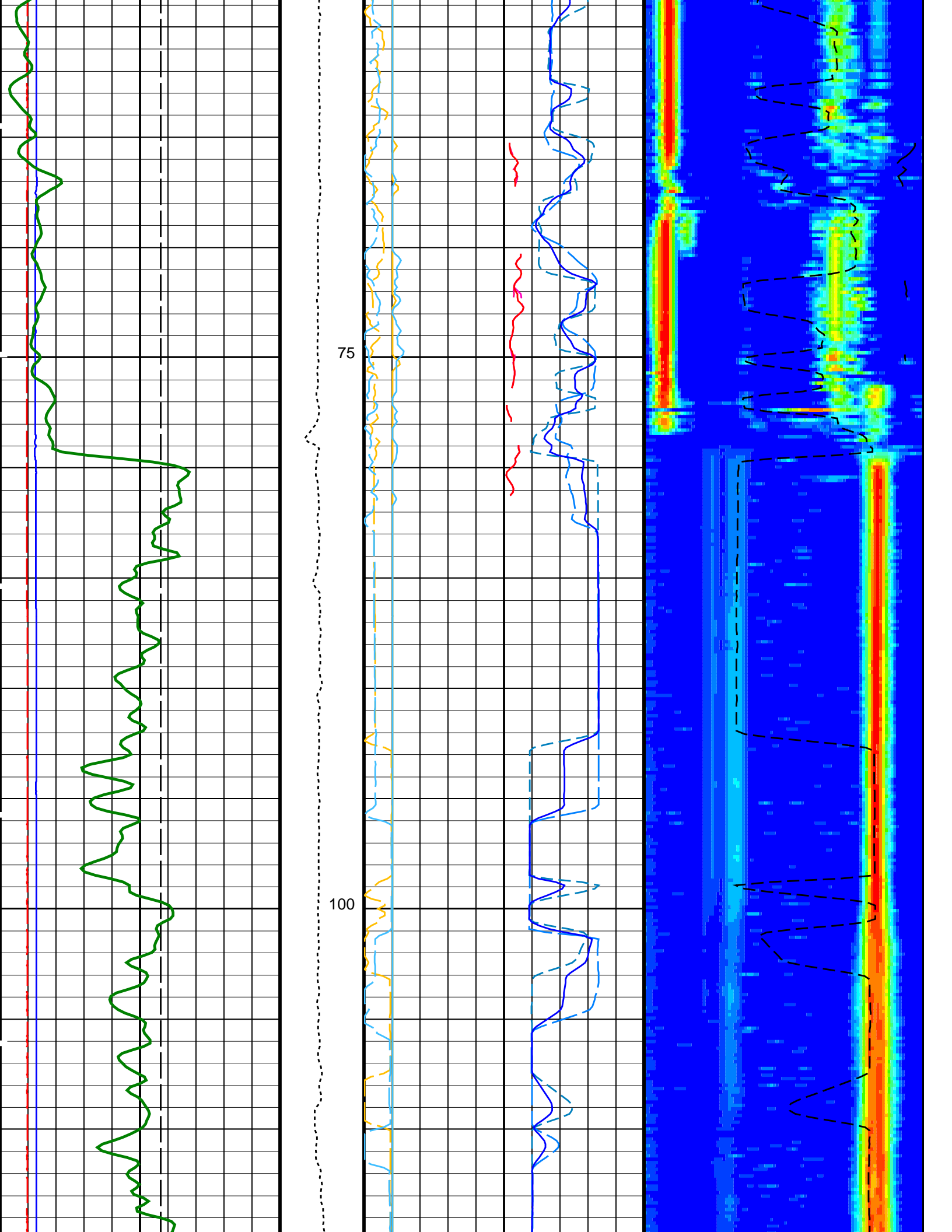
PIP SUMMARY

Time Mark Every 60 S

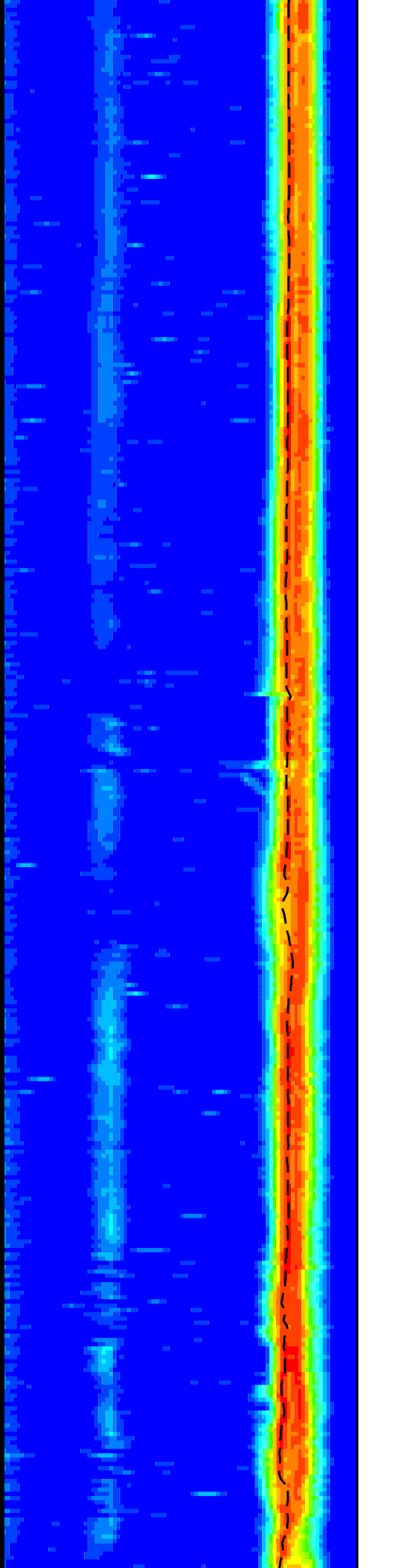
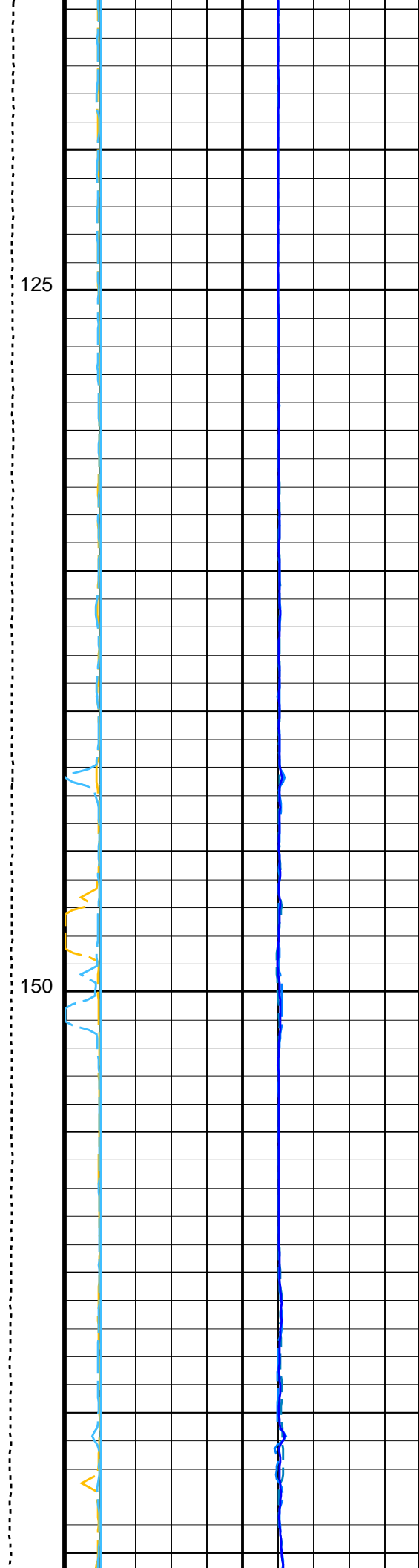
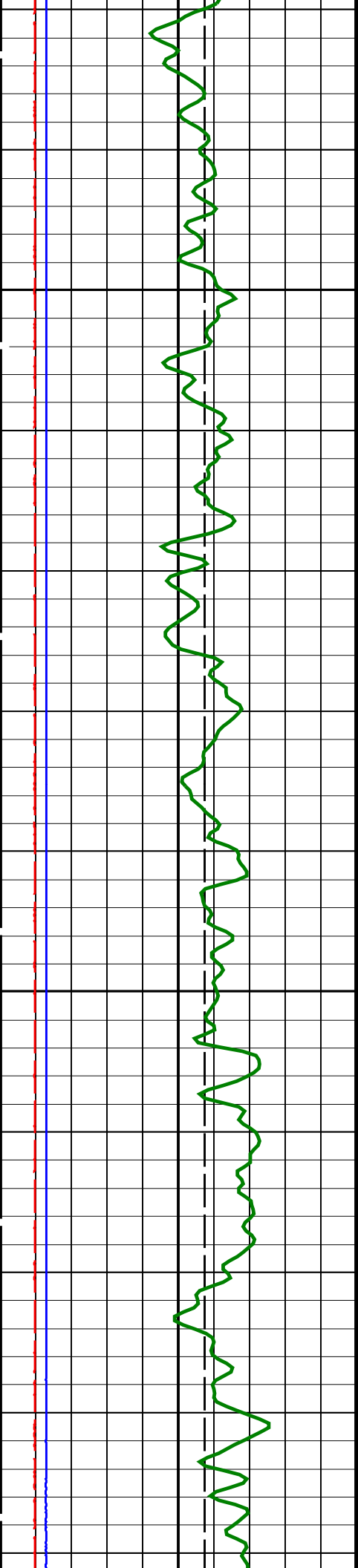
		<b>Delta-T Shear - P &amp; S (DT4S)</b>			
		440	(US/F)	40	
		<b>Delta-T Shear / TA - P &amp; S (DTTS)</b>			
		440	(US/F)	40	
		<b>Delta-T Shear / RA - P &amp; S (DTRS)</b>			
		440	(US/F)	40	
		<b>Delta-T Comp - P &amp; S (DT4P)</b>			
		440	(US/F)	40	
		<b>Delta-T Comp / TA - P &amp; S (DTTP)</b>			
		440	(US/F)	40	
		<b>Delta-T Comp / RA - P &amp; S (DTRP)</b>			
		440	(US/F)	40	
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		<b>Peak Coherence / TA - P &amp; S Shear (CHTS)</b>			
0	(GAPI)	100		-1	(----) 9
<b>Caliper 2 (C2)</b>		<b>Peak Coherence / RA - P &amp; S Shear (CHRS)</b>			
0	(IN)	20		-1	(----) 9
<b>Caliper 1 (C1)</b>		<b>Peak Coherence / TA - P &amp; S Comp (CHTP)</b>			
0	(IN)	20		0	(----) 10
<b>Bit Size (BS)</b>		<b>Peak Coherence / RA - P &amp; S Comp (CHRP)</b>			
0	(IN)	20		0	(----) 10
		<b>Tension (TENS) (LBF)</b>			
		0	5000	40	<b>Delta-T Shear / RA - P &amp; S (DTRS)</b>
				(US/F) 240	
				<b>Delta-T Comp / RA - P &amp; S (DTRP)</b>	
				(US/F) 240	

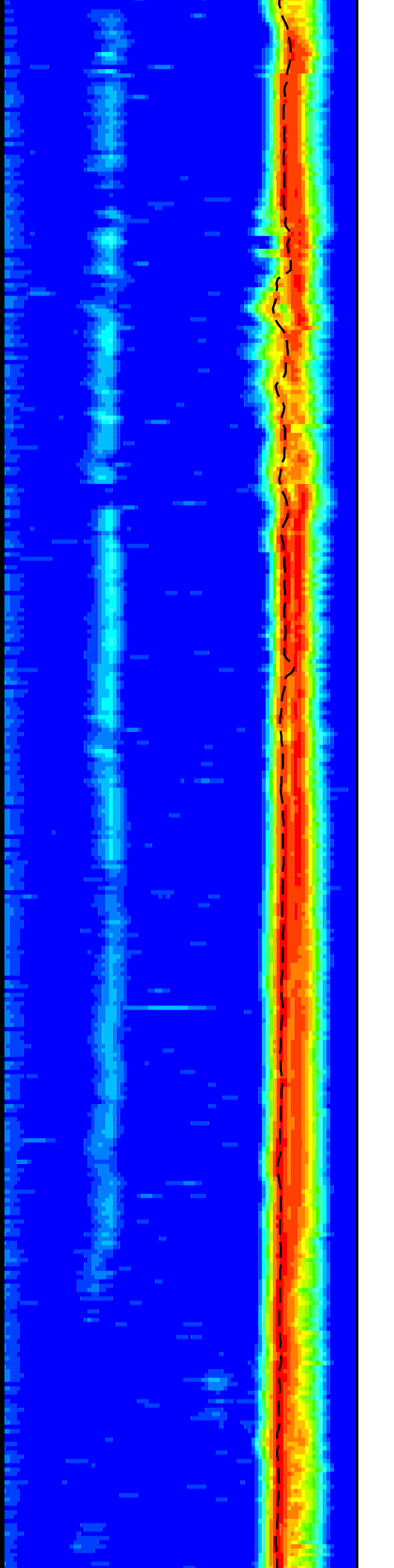
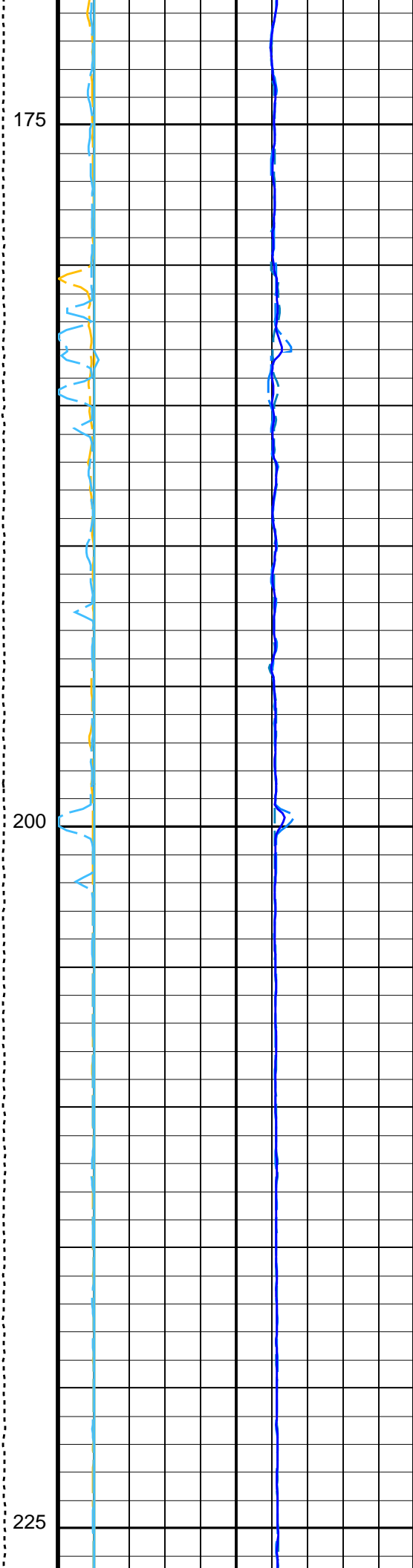
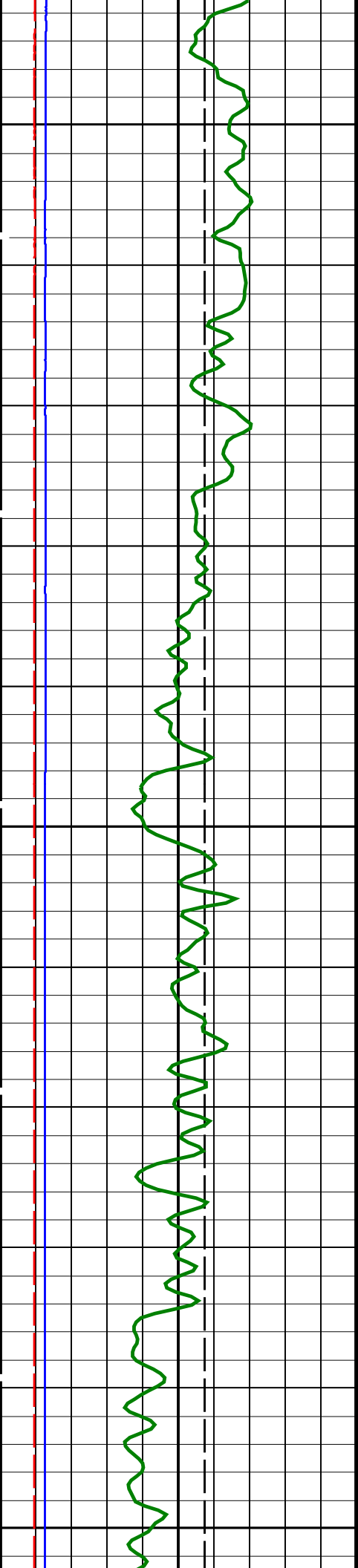


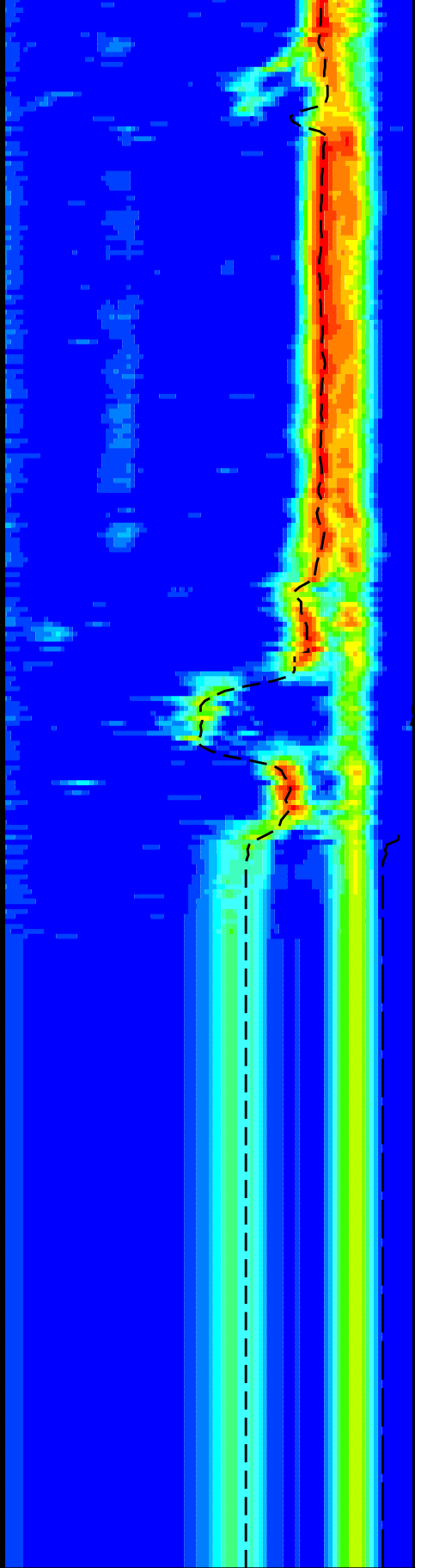
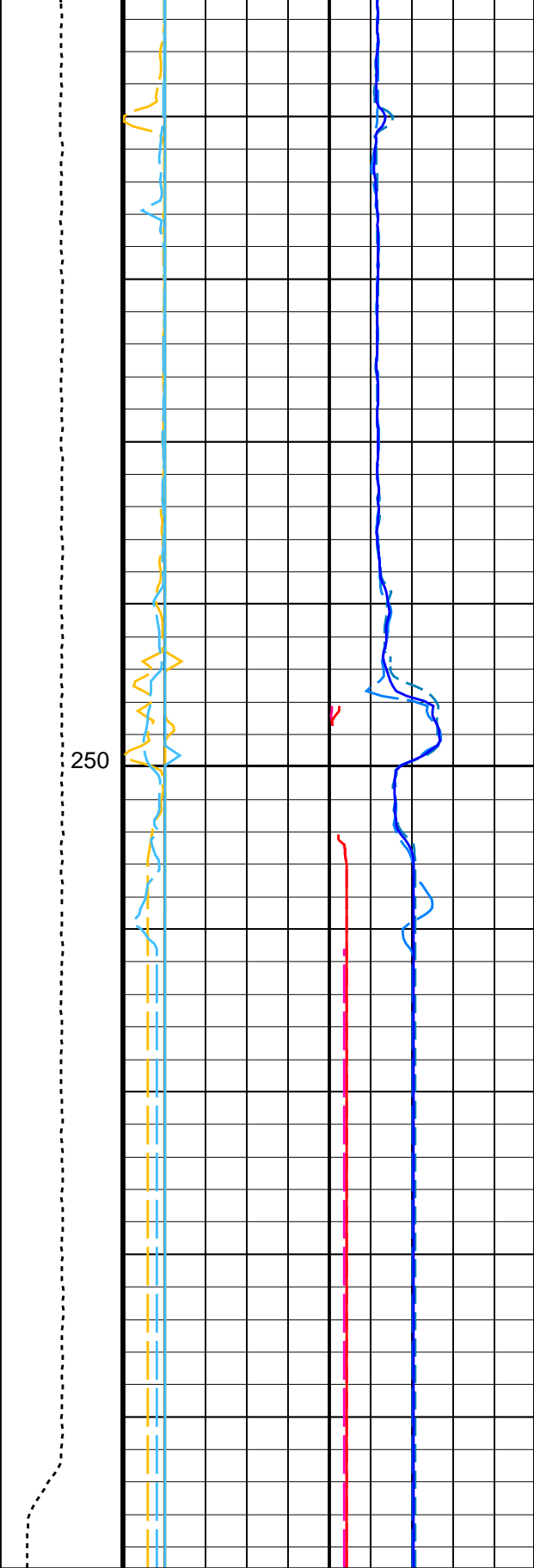
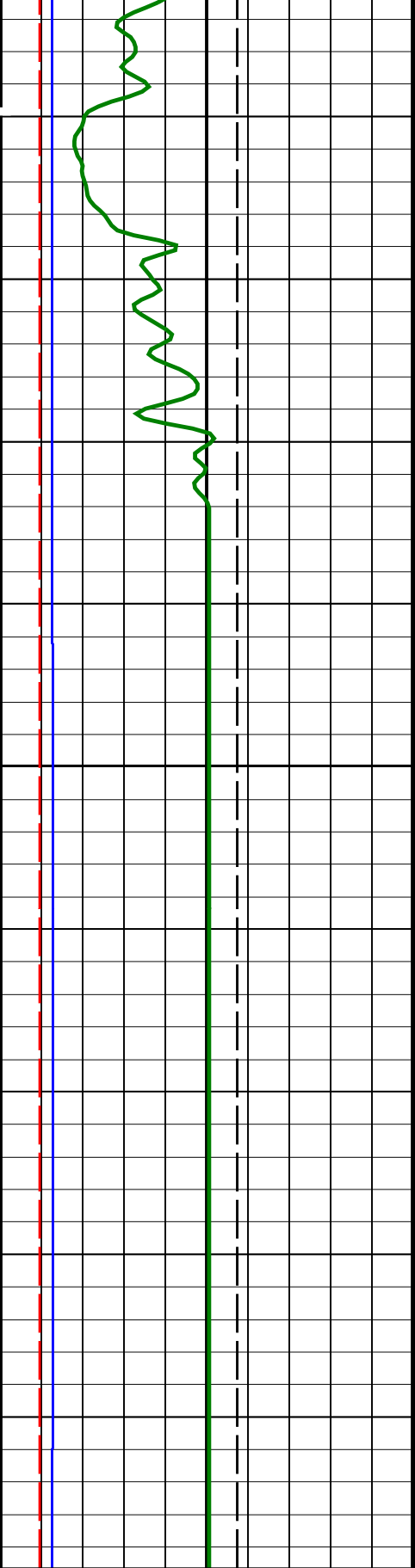












Bit Size (BS)  
(IN) 0 20

Tension (TENS)  
(LBF) 0 5000

Peak Coherence / RA - P & S Comp  
(CHRP) 0 10

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

Caliper 1 (C1)  
(IN) 0 20

Peak Coherence / TA - P & S Comp  
(CHTP) 0 10

Delta-T Shear / RA - P & S (DTRS)  
(US/F) 40 240

Min Amplitude Max

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

Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----	9
Peak Coherence / TA - P & S Shear (CHTS)		
-1	(----	9
Delta-T Comp / RA - P & S (DTRP)		
440	(US/F)	40
Delta-T Comp / TA - P & S (DTTP)		
440	(US/F)	40
Delta-T Comp - P & S (DT4P)		
440	(US/F)	40
Delta-T Shear / RA - P & S (DTRS)		
440	(US/F)	40
Delta-T Shear / TA - P & S (DTTS)		
440	(US/F)	40
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40

Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function - Monopole P&S	50
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	120 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	240 US/F
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTF	Delta-T Fluid	189 US/F
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
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
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS4	STC Sonic Array Status - Monopole P&S	255
SBO4	STC Search Band Offset - Monopole P&S	500 US
SBR4	STC Baseline Removal - Monopole P&S	ON
SBW4	STC Search Bandwidth - Monopole P&S	2000 US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE
SFM4	STC Filter - Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	210 US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	240 US/F
SSL4	STC Slowness Lower Limit - Monopole P&S	40 US/F
SST4	STC Slowness Step - Monopole P&S	2 US/F
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
STL4	STC Slowness Lower Limit - Monopole P&S	440 US/F

SUL4	STC Slowness Upper Limit - Monopole P&S	440	US/F
SWD4	STC Slowness Width - Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill - Monopole P&S	300	US
TLL4	STC Time Lower Limit - Monopole P&S	150	US
TST4	STC Time Step - Monopole P&S	50	US
TUL4	STC Time Upper Limit - Monopole P&S	5110	US
TWD4	STC Time Width - Monopole P&S	1000	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
<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	-0.0214685	
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	0.973109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963734	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-1081.6	M
PP	Playback Processing	NORMAL	

Format: DSST\_P\_S\_VDL\_COLOR    Vertical Scale: 1:200    Graphics File Created: 21-Sep-2013 13:06

## 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_044LUP	PRODUCER	21-Sep-2013 12:55	1356.2 M	1024.1 M
---------	-------------------------	----------	-------------------	----------	----------

### Output DLIS Files

DEFAULT	FMS_DSI_NGS_048PUP	FN:56	PRODUCER	21-Sep-2013 13:06
CLIENT	FMS_DSI_NGS_048PUC	FN:57	CUSTOMER	21-Sep-2013 13:06



**First Pass**  
**1:200 Scale**

MAXIS Field Log

### Input DLIS Files

### Output DLIS Files

DEFAULT	FMS_DSI_NGS_047PUP	FN:54	PRODUCER	21-Sep-2013 13:03	272.0 M	43.9 M
CLIENT	FMS_DSI_NGS_047PUC	FN:55	CUSTOMER	21-Sep-2013 13:03	272.0 M	43.9 M

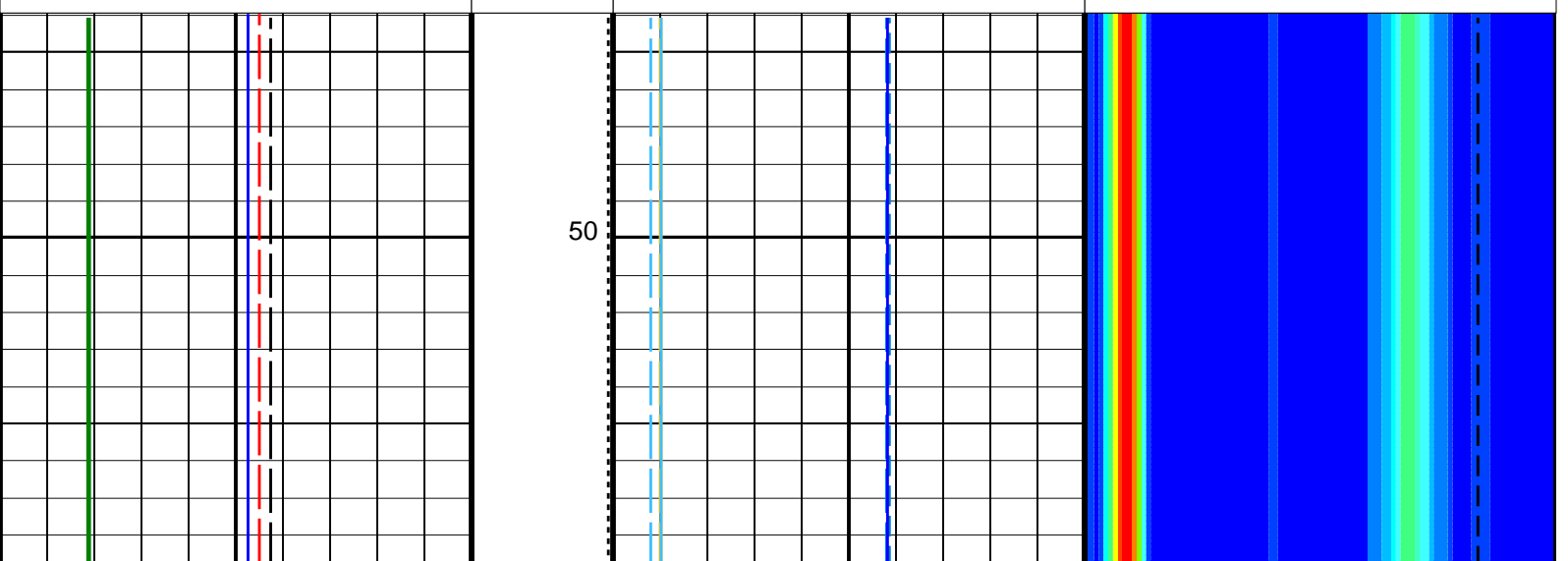
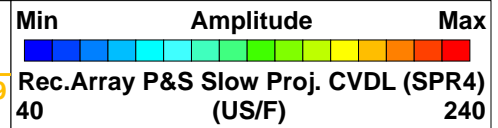
### OP System Version: 19C0-187

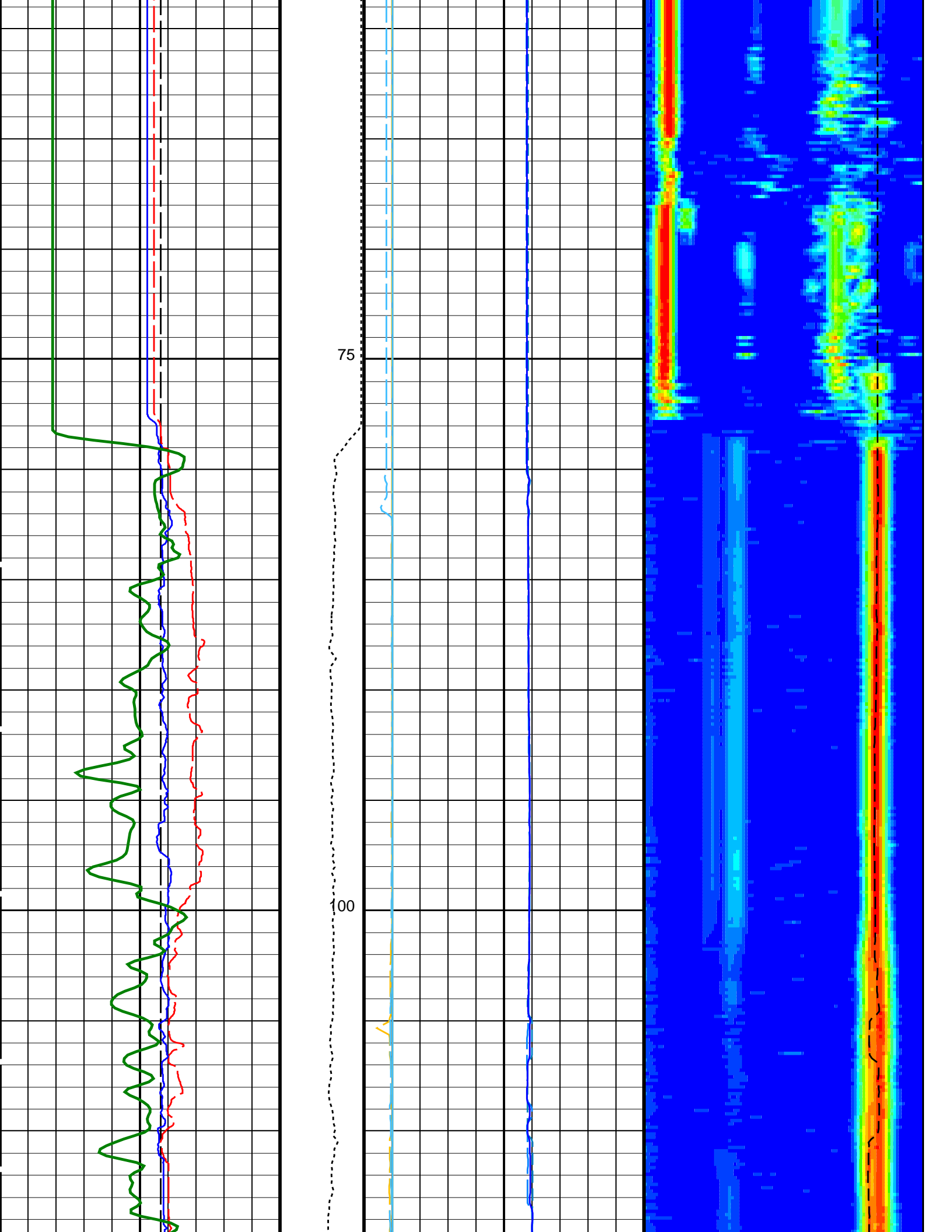
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

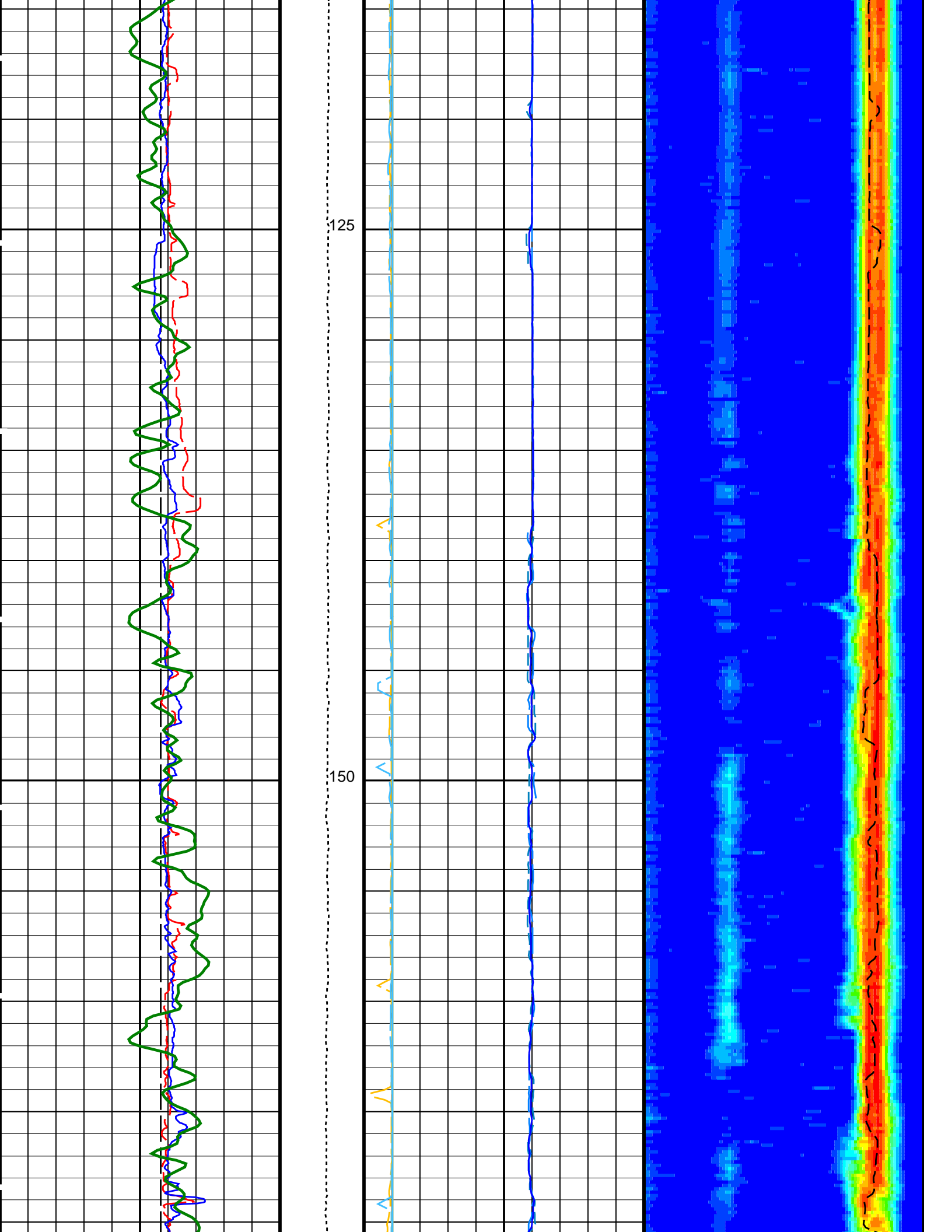
#### PIP SUMMARY

Time Mark Every 60 S

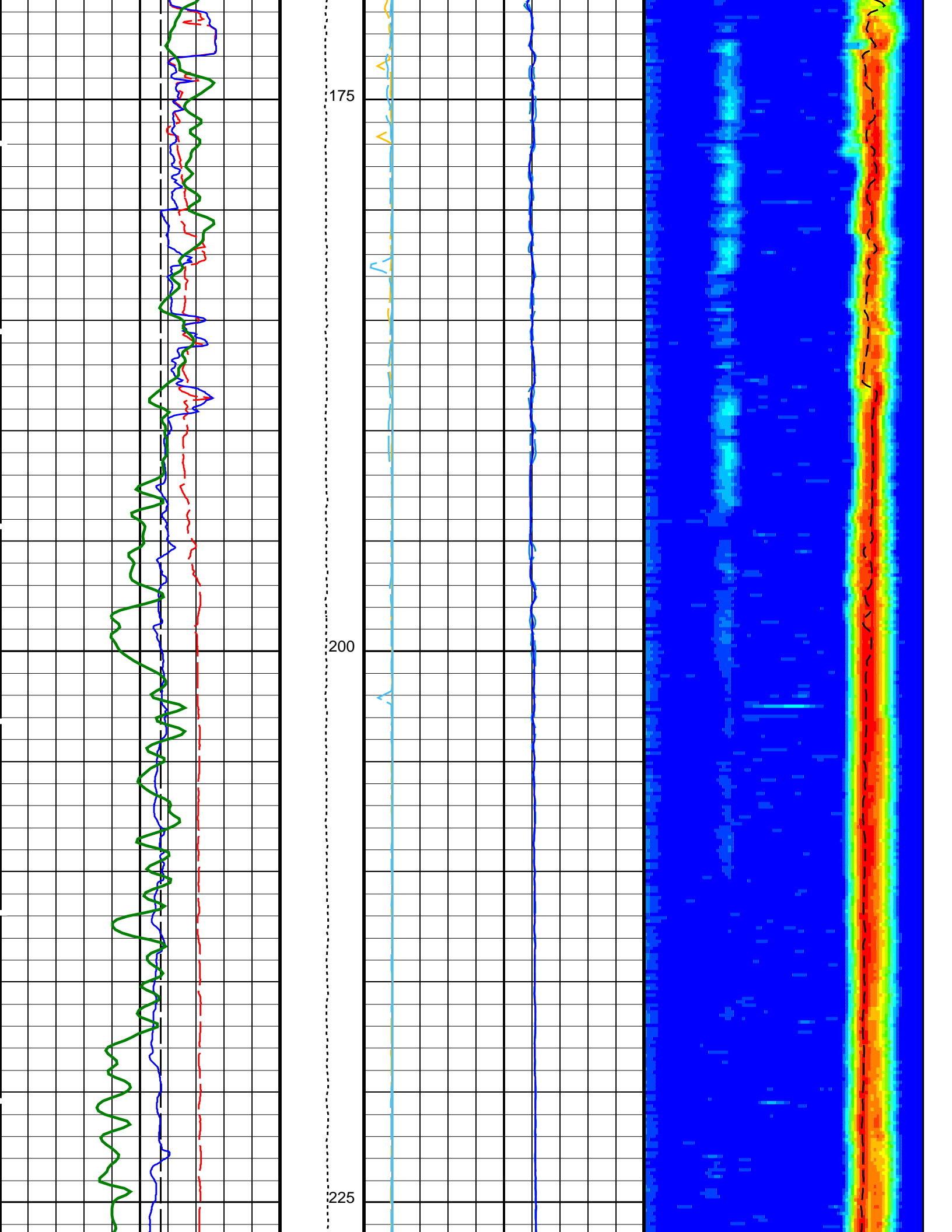
		<b>Delta-T Shear - P &amp; S (DT4S)</b>				
		440	(US/F)	40		
		<b>Delta-T Shear / TA - P &amp; S (DTTS)</b>				
		440	(US/F)	40		
		<b>Delta-T Shear / RA - P &amp; S (DTRS)</b>				
		440	(US/F)	40		
		<b>Delta-T Comp - P &amp; S (DT4P)</b>				
		440	(US/F)	40		
		<b>Delta-T Comp / TA - P &amp; S (DTTP)</b>				
		440	(US/F)	40		
		<b>Delta-T Comp / RA - P &amp; S (DTRP)</b>				
		440	(US/F)	40		
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		<b>Peak Coherence / TA - P &amp; S Shear (CHTS)</b>				
0	(GAPI)	100	-1	(----)	9	
<b>Caliper 2 (C2)</b>		<b>Peak Coherence / RA - P &amp; S Shear (CHRS)</b>				
0	(IN)	20	-1	(----)	9	
<b>Caliper 1 (C1)</b>		<b>Peak Coherence / TA - P &amp; S Comp (CHTP)</b>				
0	(IN)	20	0	(----)	10	
<b>Bit Size (BS)</b>		<b>Peak Coherence / RA - P &amp; S Comp (CHRP)</b>				
0	(IN)	20	0	(----)	10	
		<b>Tension (TENS) (LBF)</b>	<b>Delta-T Shear / RA - P &amp; S (DTRS)</b>			
		0	5000	40	(US/F)	240
		<b>Delta-T Comp / RA - P &amp; S (DTRP)</b>				
				40	(US/F)	240

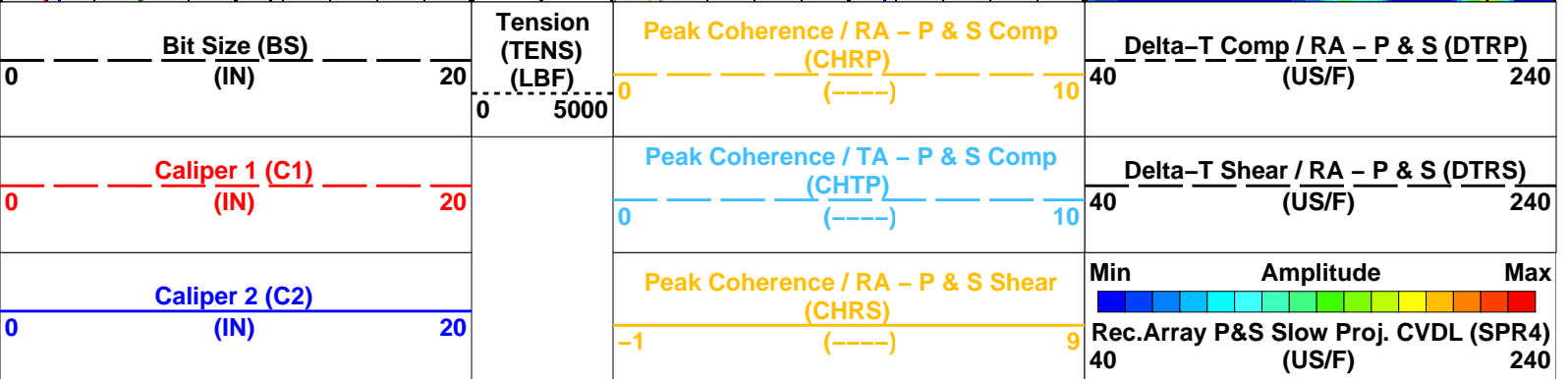
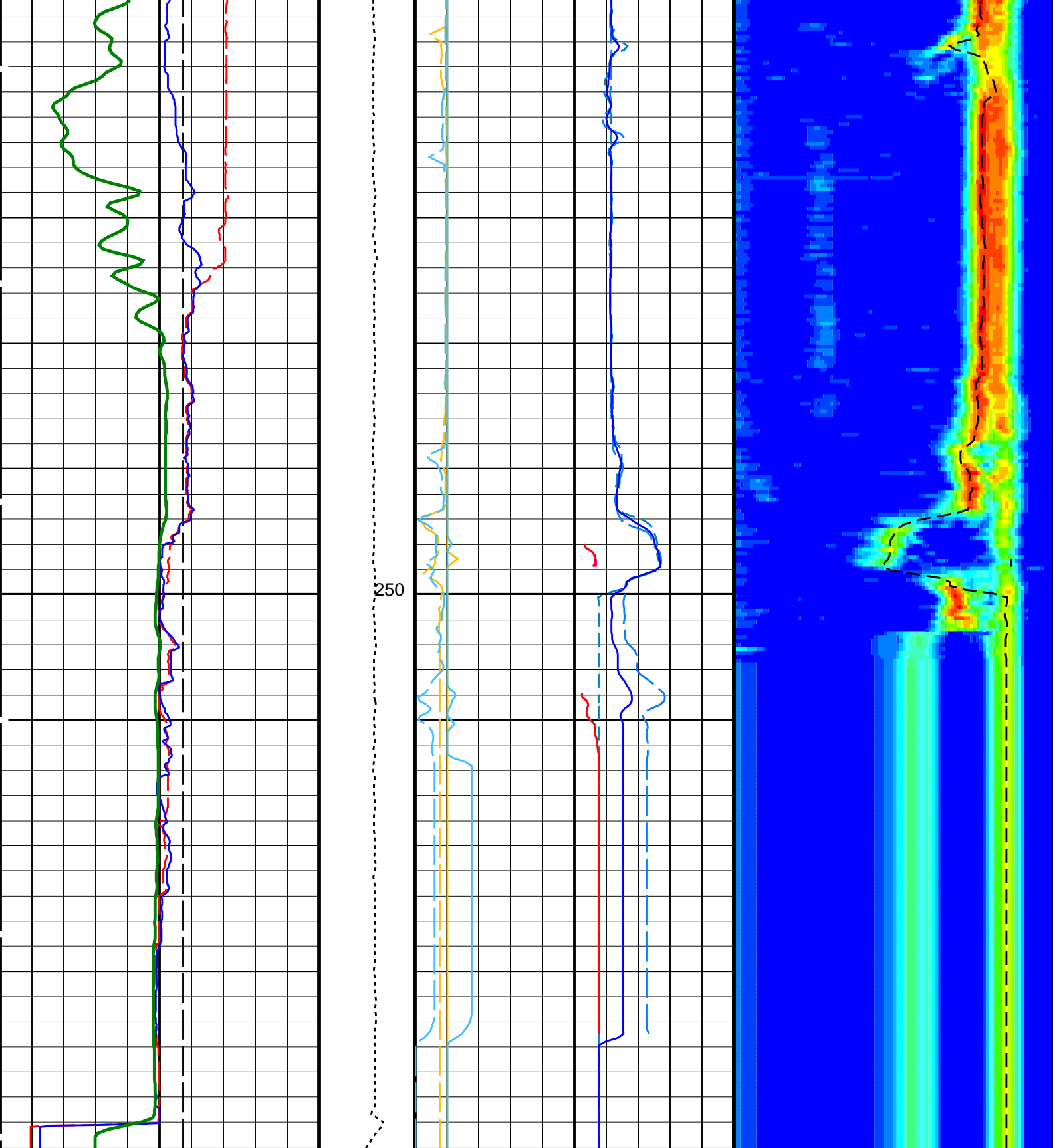












HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	100

Peak Coherence / TA - P & S Shear (CHTS)		
-1	(-----)	9
Delta-T Comp / RA - P & S (DTRP)		
440	(US/F)	40
Delta-T Comp / TA - P & S (DTTP)		
440	(US/F)	40
Delta-T Comp - P & S (DT4P)		
440	(US/F)	40
Delta-T Shear / RA - P & S (DTRS)		
440	(US/F)	40
Delta-T Shear / TA - P & S (DTTS)		
440	(US/F)	40
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
CASF	Label Casing Function - Monopole P&S	50
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	120 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	240 US/F
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTF	Delta-T Fluid	189 US/F
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
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
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS4	STC Sonic Array Status - Monopole P&S	255
SBO4	STC Search Band Offset - Monopole P&S	500 US
SBR4	STC Baseline Removal - Monopole P&S	ON
SBW4	STC Search Bandwidth - Monopole P&S	2000 US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE
SFM4	STC Filter - Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	210 US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	240 US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40 US/F
SST4	STC Slowness Step - Monopole P&S	2 US/F
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
SUL4	STC Slowness Upper Limit - Monopole P&S	440 US/F
SWD4	STC Slowness Width - Monopole P&S	10 US/F
TBF4	STC Time for Baseline Fill - Monopole P&S	300 US
TLL4	STC Time Lower Limit - Monopole P&S	150 US

TS14	STC Time Step – Monopole P&S	50	US
TUL4	STC Time Upper Limit – Monopole P&S	5110	US
TWD4	STC Time Width – Monopole P&S	1000	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
<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	-0.0214685	
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	0.973109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963734	
<b>EDTC–B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-1081.3	M
PP	Playback Processing	NORMAL	

Format: DSST\_P\_S\_VDL\_COLOR    Vertical Scale: 1:200    Graphics File Created: 21–Sep–2013 13:03

## OP System Version: 19C0–187

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

### Input DLIS Files

DEFAULT	FMS_DSI_NGS_021LUP	FN:20	PRODUCER	20–Sep–2013 03:35	1353.3 M	1125.2 M
---------	--------------------	-------	----------	-------------------	----------	----------

### Output DLIS Files

DEFAULT	FMS_DSI_NGS_047PUP	FN:54	PRODUCER	21–Sep–2013 13:03
CLIENT	FMS_DSI_NGS_047PUC	FN:55	CUSTOMER	21–Sep–2013 13:03



**Second Pass**  
**1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 346, Site U1430B

### Input DLIS Files

DEFAULT	FMS_DSI_NGS_022LUP	FN:21	PRODUCER	20–Sep–2013 04:13	1353.3 M	1038.6 M
---------	--------------------	-------	----------	-------------------	----------	----------

### Output DLIS Files

DEFAULT	FMS_DSI_NGS_046PUP	FN:52	PRODUCER	21-Sep-2013 12:59	272.0 M	-10.1 M
CLIENT	FMS_DSI_NGS_046PUC	FN:53	CUSTOMER	21-Sep-2013 12:59	272.0 M	-10.1 M

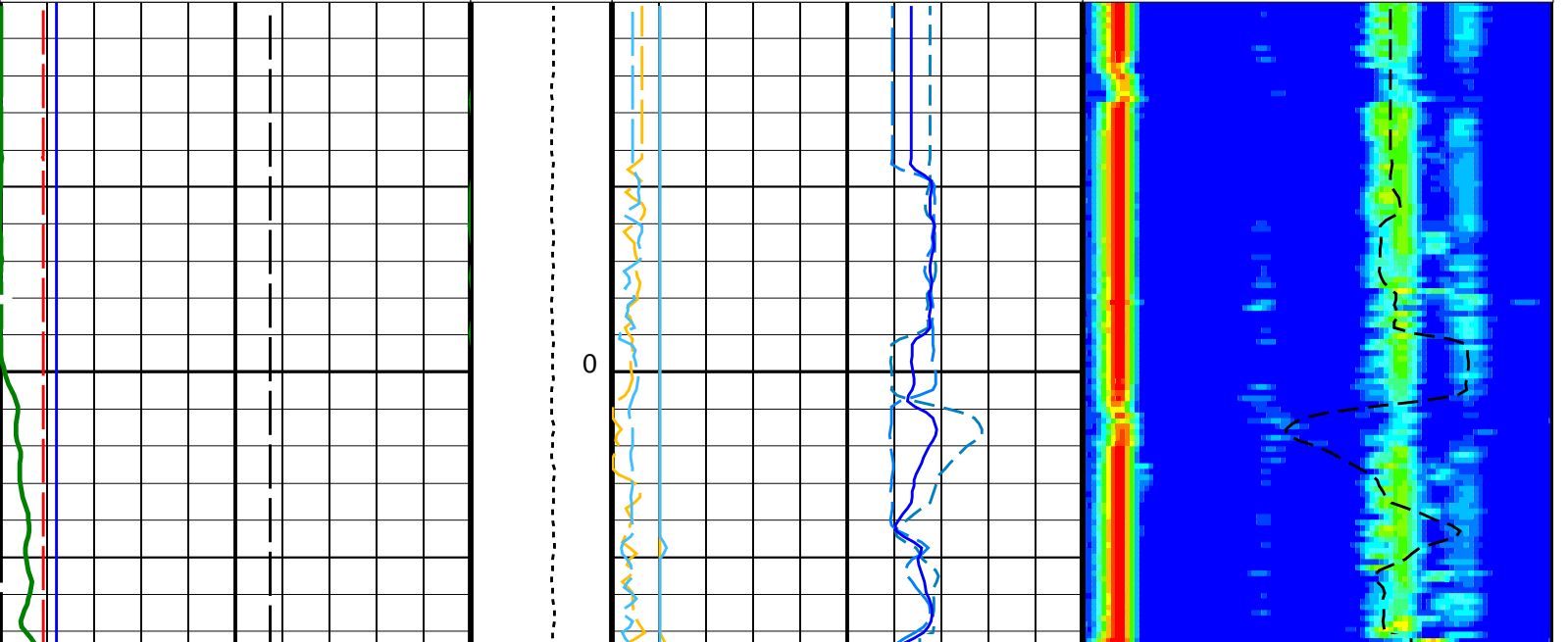
## OP System Version: 19C0-187

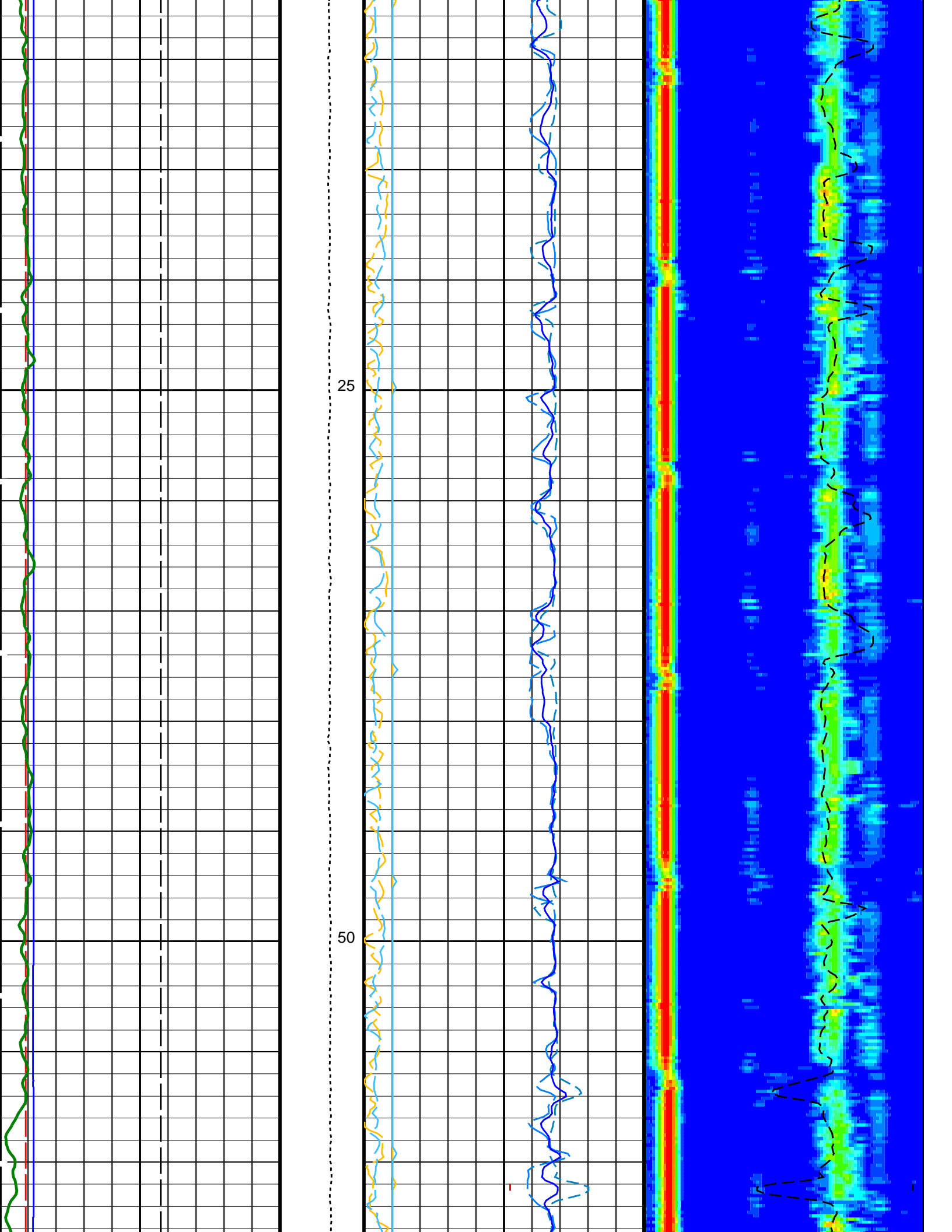
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

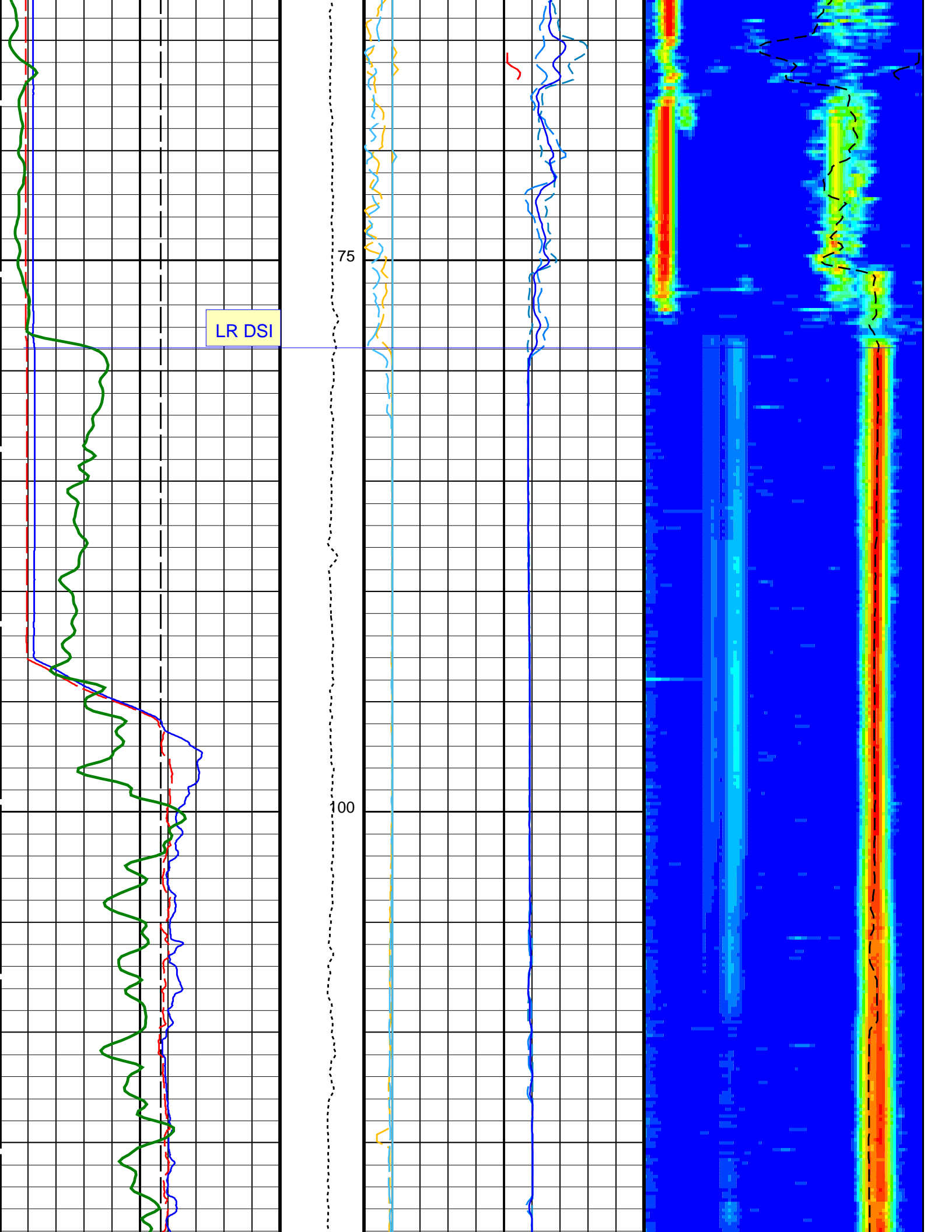
### PIP SUMMARY

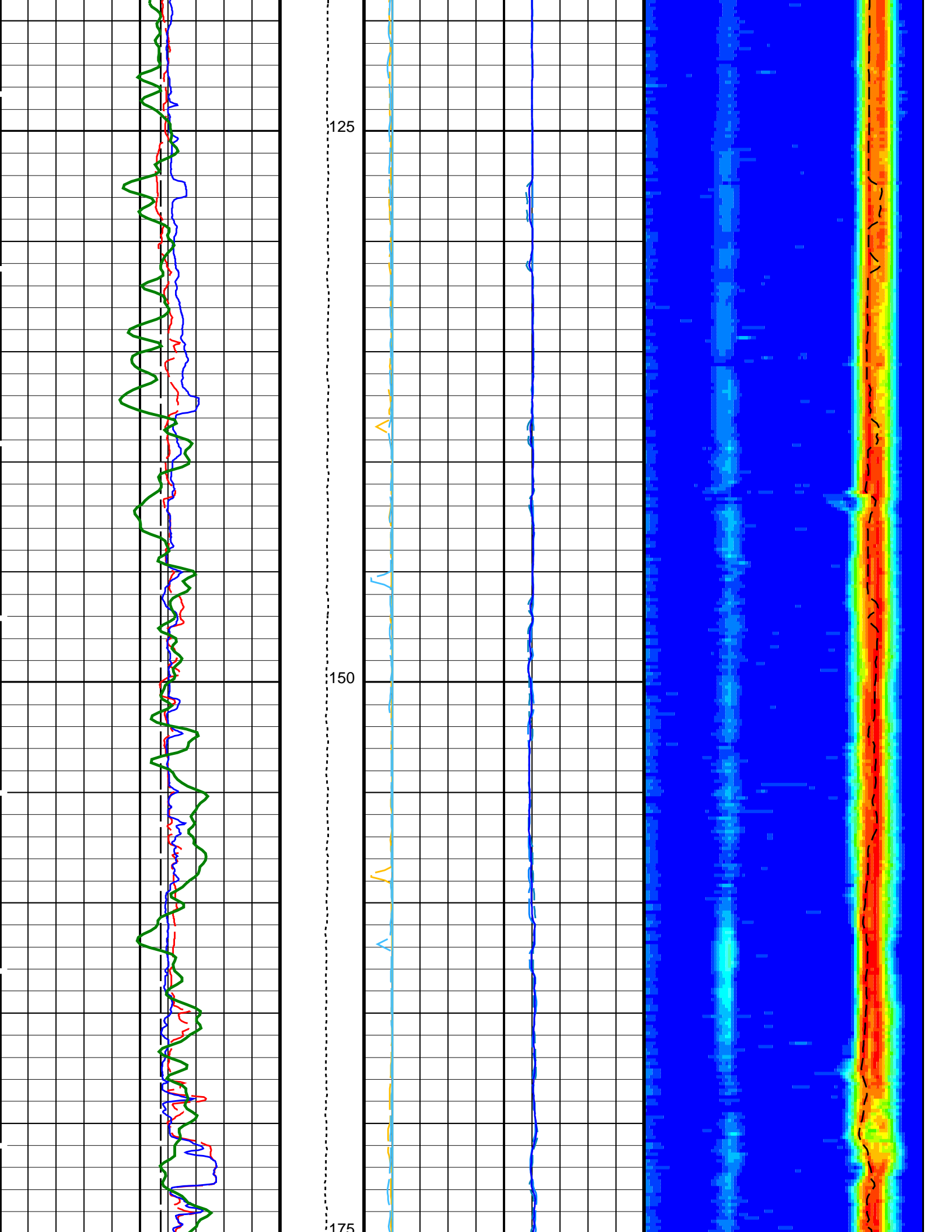
Time Mark Every 60 S

	<b>Delta-T Shear - P &amp; S (DT4S)</b> 440 (US/F) 40	
	<b>Delta-T Shear / TA - P &amp; S (DTTS)</b> 440 (US/F) 40	
	<b>Delta-T Shear / RA - P &amp; S (DTRS)</b> 440 (US/F) 40	
	<b>Delta-T Comp - P &amp; S (DT4P)</b> 440 (US/F) 40	
	<b>Delta-T Comp / TA - P &amp; S (DTTP)</b> 440 (US/F) 40	
	<b>Delta-T Comp / RA - P &amp; S (DTRP)</b> 440 (US/F) 40	
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b> 0 (GAPI) 100	<b>Peak Coherence / TA - P &amp; S Shear (CHTS)</b> -1 (----) 9	
<b>Caliper 2 (C2)</b> 0 (IN) 20	<b>Peak Coherence / RA - P &amp; S Shear (CHRS)</b> -1 (----) 9	Min <span style="display: inline-block; width: 100px; height: 10px; background: linear-gradient(to right, blue, cyan, green, yellow, orange, red);"></span> Max Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F) 240
<b>Caliper 1 (C1)</b> 0 (IN) 20	<b>Peak Coherence / TA - P &amp; S Comp (CHTP)</b> 0 (----) 10	<b>Delta-T Shear / RA - P &amp; S (DTRS)</b> 40 (US/F) 240
<b>Bit Size (BS)</b> 0 (IN) 20	<b>Peak Coherence / RA - P &amp; S Comp (CHRP)</b> 0 (----) 10	<b>Delta-T Comp / RA - P &amp; S (DTRP)</b> 40 (US/F) 240
<b>Tension (TENS) (LBF)</b> 0 5000		

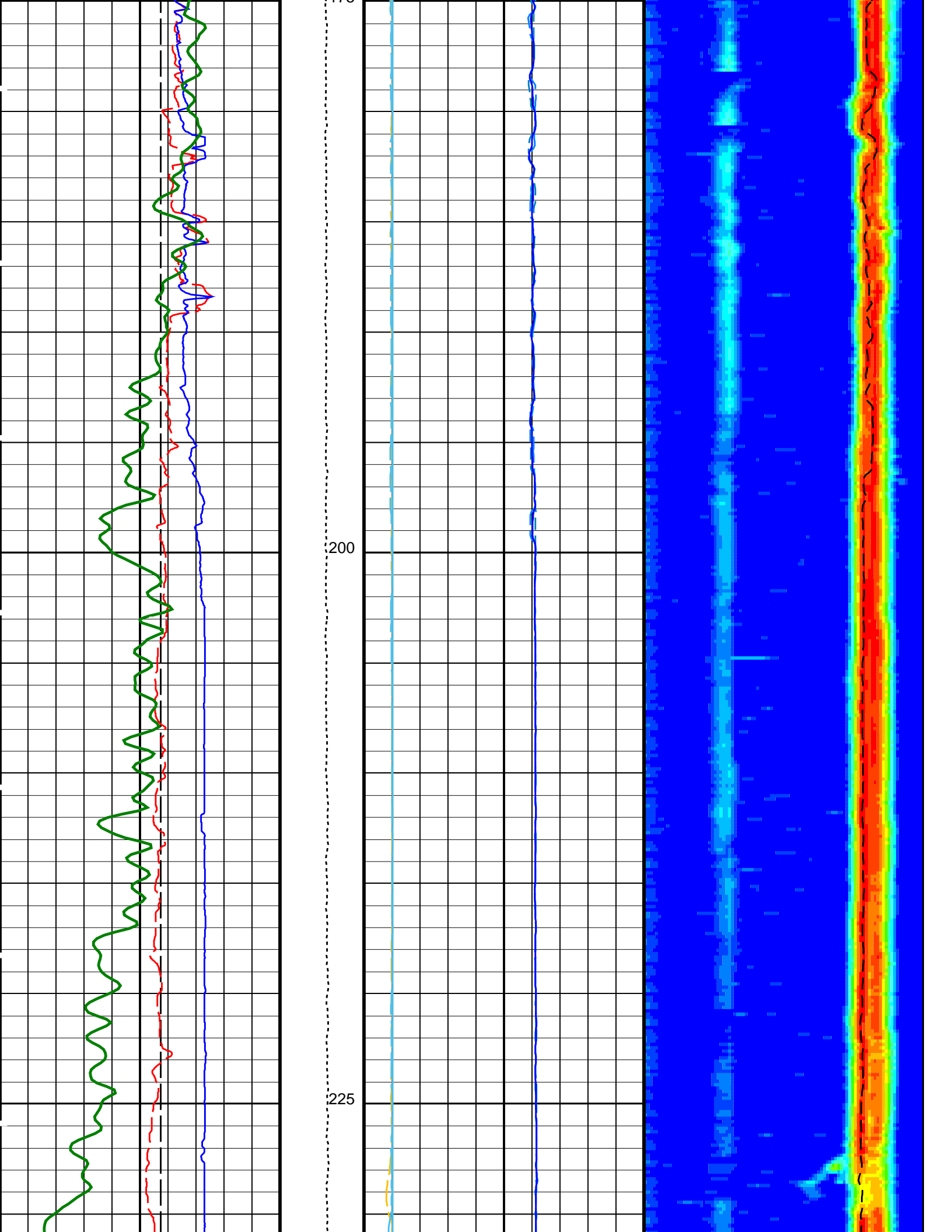


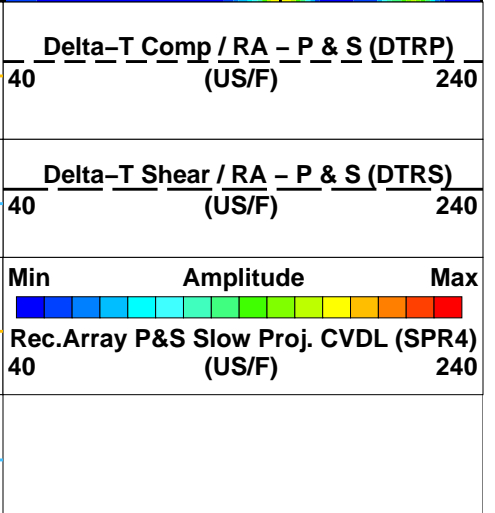
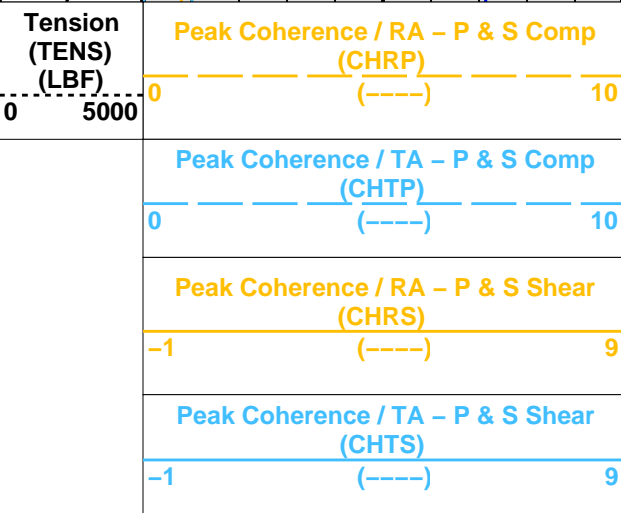
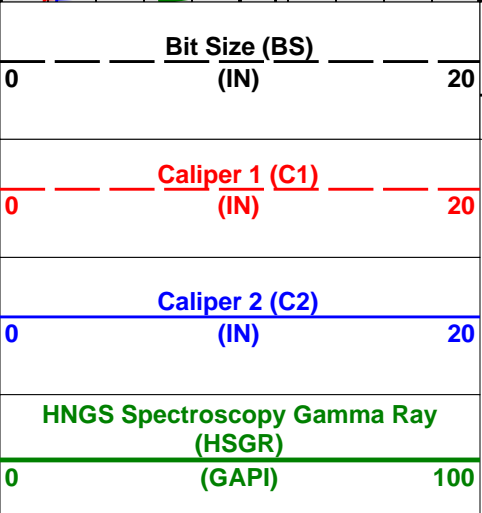
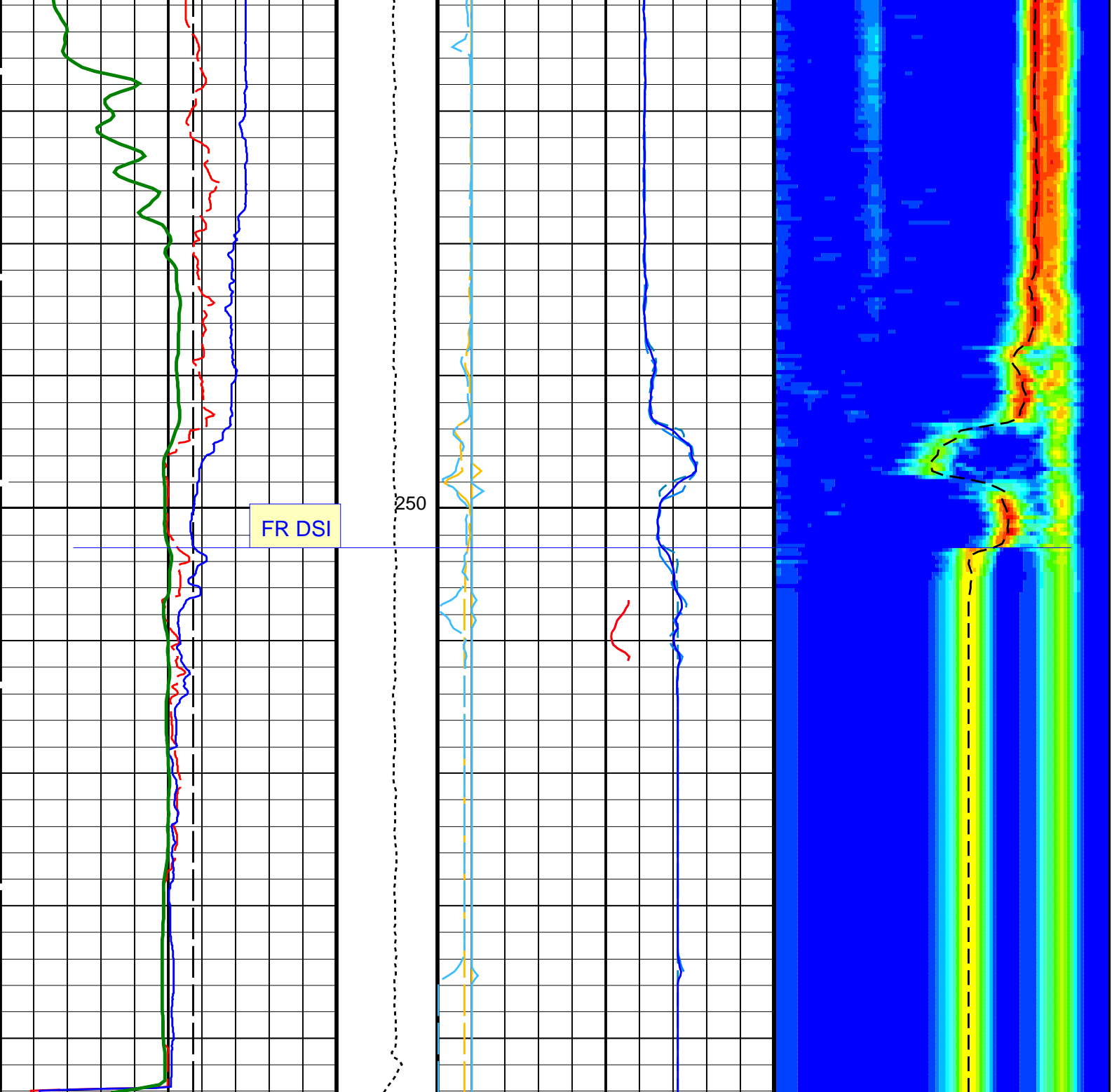












440	(US/F)	40
<u>Delta-T Comp / TA - P &amp; S (DTTP)</u>		
440	(US/F)	40
<u>Delta-T Comp - P &amp; S (DT4P)</u>		
440	(US/F)	40
<u>Delta-T Shear / RA - P &amp; S (DTRS)</u>		
440	(US/F)	40
<u>Delta-T Shear / TA - P &amp; S (DTTS)</u>		
440	(US/F)	40
<u>Delta-T Shear - P &amp; S (DT4S)</u>		
440	(US/F)	40

**PIP SUMMARY**

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
<b>DSST-B: Dipole Shear Imager - B</b>		
BHS	Borehole Status	OPEN
CASF	Label Casing Function - Monopole P&S	50
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	120 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	240 US/F
DDE4	Digitizing Delay 4	0 US
DDEX	Digitizing Delay X	0 US
DSI4	Digitizer Sample Interval 4	10 US
DSIX	Digitizer Sample Interval X	40 US
DTF	Delta-T Fluid	189 US/F
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
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
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF
SAS4	STC Sonic Array Status - Monopole P&S	255
SBO4	STC Search Band Offset - Monopole P&S	500 US
SBR4	STC Baseline Removal - Monopole P&S	ON
SBW4	STC Search Bandwidth - Monopole P&S	2000 US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE
SFM4	STC Filter - Monopole P&S	B3-20K
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	210 US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	240 US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40 US/F
SST4	STC Slowness Step - Monopole P&S	2 US/F
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
SUL4	STC Slowness Upper Limit - Monopole P&S	440 US/F
SWD4	STC Slowness Width - Monopole P&S	10 US/F
TBF4	STC Time for Baseline Fill - Monopole P&S	300 US
TLL4	STC Time Lower Limit - Monopole P&S	150 US
TST4	STC Time Step - Monopole P&S	50 US
TUL4	STC Time Upper Limit - Monopole P&S	5110 US
TWD4	STC Time Width - Monopole P&S	1000 US
TWI4	STC Integration Time Window - Monopole P&S	500 US
TWSX	Transmitter Waveform Select X	0
<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	-0.0214685	
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	0.973109	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963734	
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	-1081.3	M
PP	Playback Processing	NORMAL	

Format: DSST\_P\_S\_VDL\_COLOR    Vertical Scale: 1:200    Graphics File Created: 21-Sep-2013 12:59

### 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_022LUP	FN:21	PRODUCER	20-Sep-2013 04:13	1353.3 M	1038.6 M
---------	--------------------	-------	----------	-------------------	----------	----------

#### Output DLIS Files

DEFAULT	FMS_DSI_NGS_046PUP	FN:52	PRODUCER	21-Sep-2013 12:59
CLIENT	FMS_DSI_NGS_046PUC	FN:53	CUSTOMER	21-Sep-2013 12:59



## Calibrations

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: Calibration out of date 22-May-2013 19:08							
Caliper 1 Zero Measurement	12.00	N/A	12.11	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	15.21	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.37	N/A	N/A	N/A	IN

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

Before: 20-Sep-2013 2:32

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: 20-Sep-2013 2:32

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: 29-Jul-2013 20:46 Before: 19-Sep-2013 18:19 After: 19-Sep-2013 22:02

Na 511 Peak Loc	40.00	39.74	39.66	39.56	-0.09800	1.000	
Na 511 Peak Res	15.50	15.31	15.17	16.33	1.168	2.000	%
High Voltage	1150	1168	1176	1177	0.3591	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.6	141.8	-0.8471	7.000	
Na 1785 Peak Res	8.500	9.002	8.753	9.095	0.3424	2.000	%
Temperature	15.50	21.46	30.57	29.49	-1.081	N/A	DEGC
Na Count Rate	45.00	15.10	13.57	12.85	-0.7143	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 29-Jul-2013 20:46 Before: 19-Sep-2013 18:19 After: 19-Sep-2013 22:02

Na 511 Peak Loc	40.00	39.58	39.77	39.66	-0.1100	1.000	
Na 511 Peak Res	15.50	16.04	16.03	15.80	-0.2308	2.000	%
High Voltage	1150	1093	1110	1111	1.164	N/A	V
Na 1785 Peak Loc	142.6	141.7	140.4	142.4	2.014	7.000	
Na 1785 Peak Res	8.500	9.499	9.518	8.749	-0.7685	2.000	%
Temperature	15.50	21.65	31.21	31.20	-0.01138	N/A	DEGC
Na Count Rate	45.00	14.93	13.61	12.82	-0.7925	8.000	CPS

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

Master: 29-Jul-2013 20:46 Before: 19-Sep-2013 18:19 After: 19-Sep-2013 22:02

Coincidence Count Rate Ratio	1.000	1.015	0.9964	1.002	0.005705	0.05000	
------------------------------	-------	-------	--------	-------	----------	---------	--

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 19-Sep-2013 18:19

EDTC Z-Axis Acceleration	9.810	N/A	9.759	N/A	N/A	N/A	M/S2
--------------------------	-------	-----	-------	-----	-----	-----	------

Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 19-Sep-2013 18:15 After: 19-Sep-2013 21:58

Gamma Ray (Jig – Bkg)	154.9	N/A	154.9	157.4	2.498	14.08	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	167.7	2.660	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
----------------	----------	-----

Auxiliary Equipment:

HNGC Housing	HNGH – A	115
--------------	----------	-----

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS – BA	194
------------	-----------	-----


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		15.17	Before		1176
After		39.56	After		16.33	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		142.6	Before		8.753	Before		30.57
After		141.8	After		9.095	After		29.49
	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		13.57						
After		12.85						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 29-Jul-2013 20:46			Before: 19-Sep-2013 18:19			After: 19-Sep-2013 22:02		




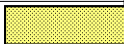


Hostile Natural Gamma Ray Sonde Wellsite Calibration								
Detector 2 Check								
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.58	Master		16.04	Master		1093
Before		39.77	Before		16.03	Before		1110
After		39.66	After		15.80	After		1111
	37.50 (Minimum) 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		140.4	Before		9.518	Before		31.21
After		142.4	After		8.749	After		31.20
	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		13.61						
After		12.82						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 29-Jul-2013 20:46			Before: 19-Sep-2013 18:19			After: 19-Sep-2013 22:02		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.015
Before		0.9964
After		1.002
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 29-Jul-2013 20:46		
Before: 19-Sep-2013 18:19		

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		9.759
	9.610 (Minimum)      9.810 (Nominal)      10.01 (Maximum)	
Before: 19-Sep-2013 18:19		

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		7.622	Before		154.9	Before		165.0	
After		7.111	After		157.4	After		167.7	
	0 (Minimum)      30.00 (Nominal)      120.0 (Maximum)			140.8 (Minimum)      154.9 (Nominal)      169.0 (Maximum)			150.0 (Minimum)      165.0 (Nominal)      180.0 (Maximum)		
Before: 19-Sep-2013 18:15			After: 19-Sep-2013 21:58						

Company: **Lamont Doherty Earth Observatory**



Well: **Expedition 346, Site U1430B**

Field: **Asian Monsoon**

Rig: **JOIDES Resolution**

Country: **USA**

DSI  
P & S Monopole