

Company: Lamont Doherty

Well: Expedition 336, Site U1383C

Field: North Pond

Rig: JOIDES Resolution Country: USA

**DSI – Sonic
P & S (Monopole)**

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'	
	Elev.:	0.00 m	
		11.00 m above Perm. Datum	

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		

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		

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

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



REMARKS: RUN NUMBER 1

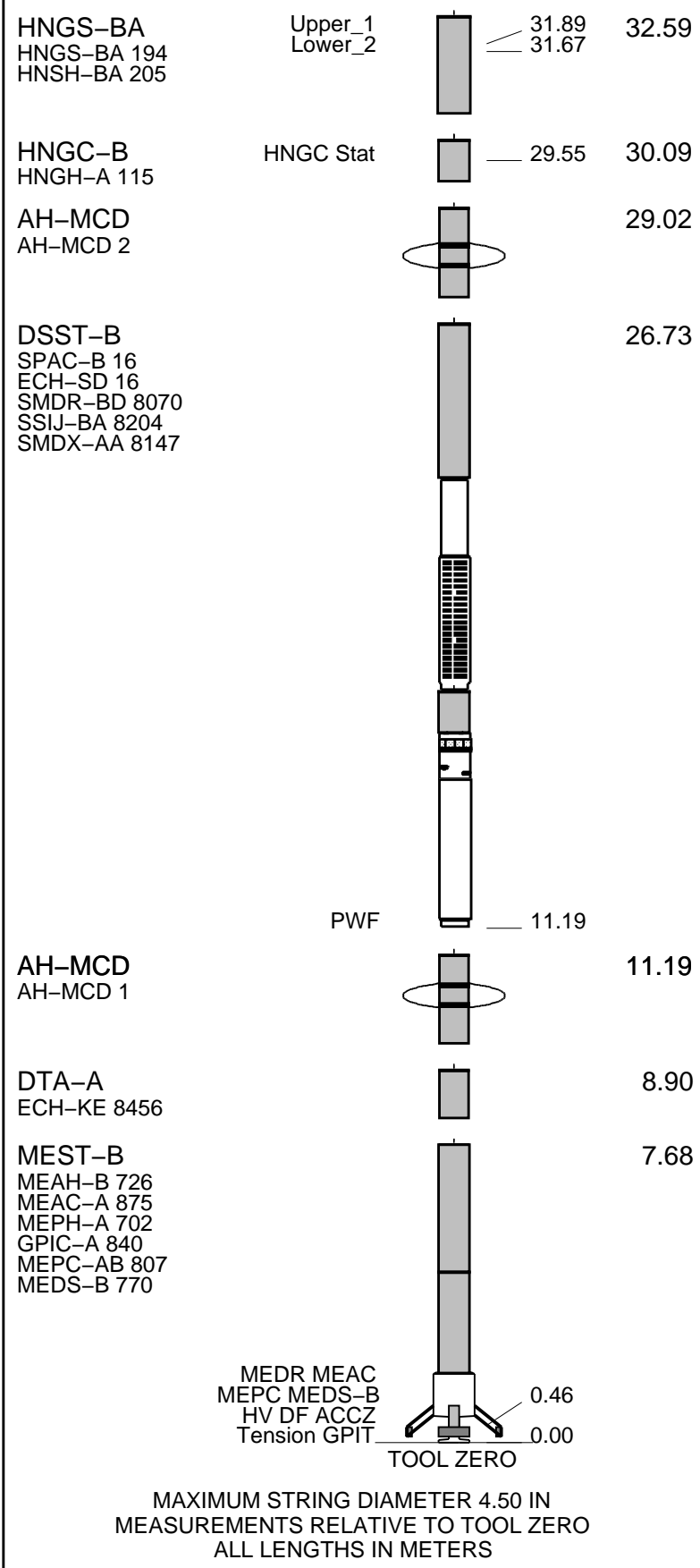
Hole 1383C was drilled for the purpose of installing a CORK; logs run to determine packer positions.
 Logs conducted to run experimental microbiology tool "DEBI-T" from JPL / USC.
 Primary objective of this run was to collect structural data, especially caliper data to be used for CORK packer depth picks.
 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	
SURFACE EQUIPMENT		SURFACE EQUIPMENT	
GSR-U 616008 WITM (EDTS)-A			

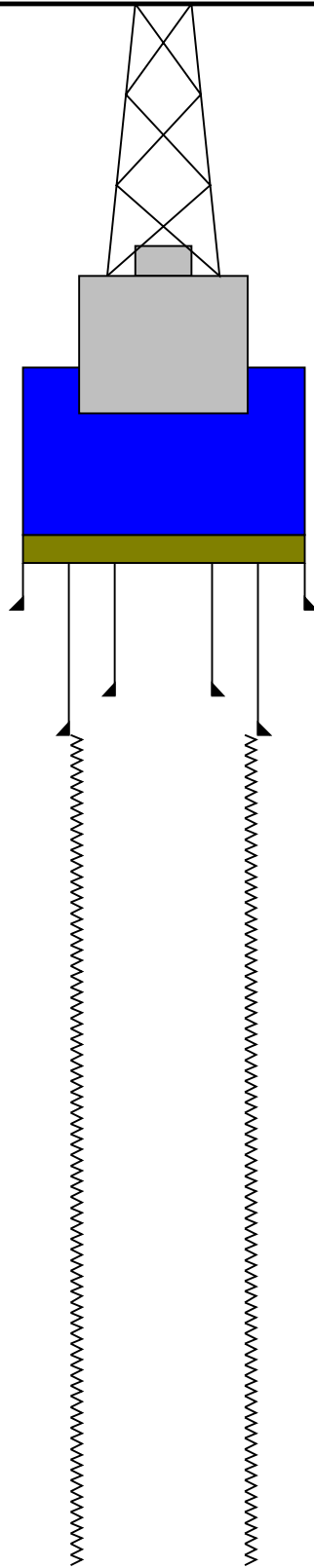
RUN 1		RUN 2	
DOWNHOLE EQUIPMENT		DOWNHOLE EQUIPMENT	
LEH-QT MP	MDSB_EDTC		35.46
LEH-QT 301	Mud Tempe		34.57
	CTEM		33.50
EDTC-B	Gamma Ray		34.57
EDTH-B 8528	EFTB DIAG		32.93
EDTC-B 8529	TelStatus		32.59
EDTG-A/B	EDTCB Ele		



Production String	(in) (m)	Well Schematic	(m) (in)	Casing String
-------------------	----------	----------------	----------	---------------

Kelly Bushing Elevation
Derrick Floor Elevation
Mean Sea Level

-4421.5
-4421.5
-4410.5



0.0
13.0
55.0
60.0

16.000
5.500
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
---------	--------------------	-------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	FMS_DSI_NGS_058PUP	FN:54	PRODUCER	10-Nov-2011 18:38	331.5 M	-8.7 M
---------	--------------------	-------	----------	-------------------	---------	--------

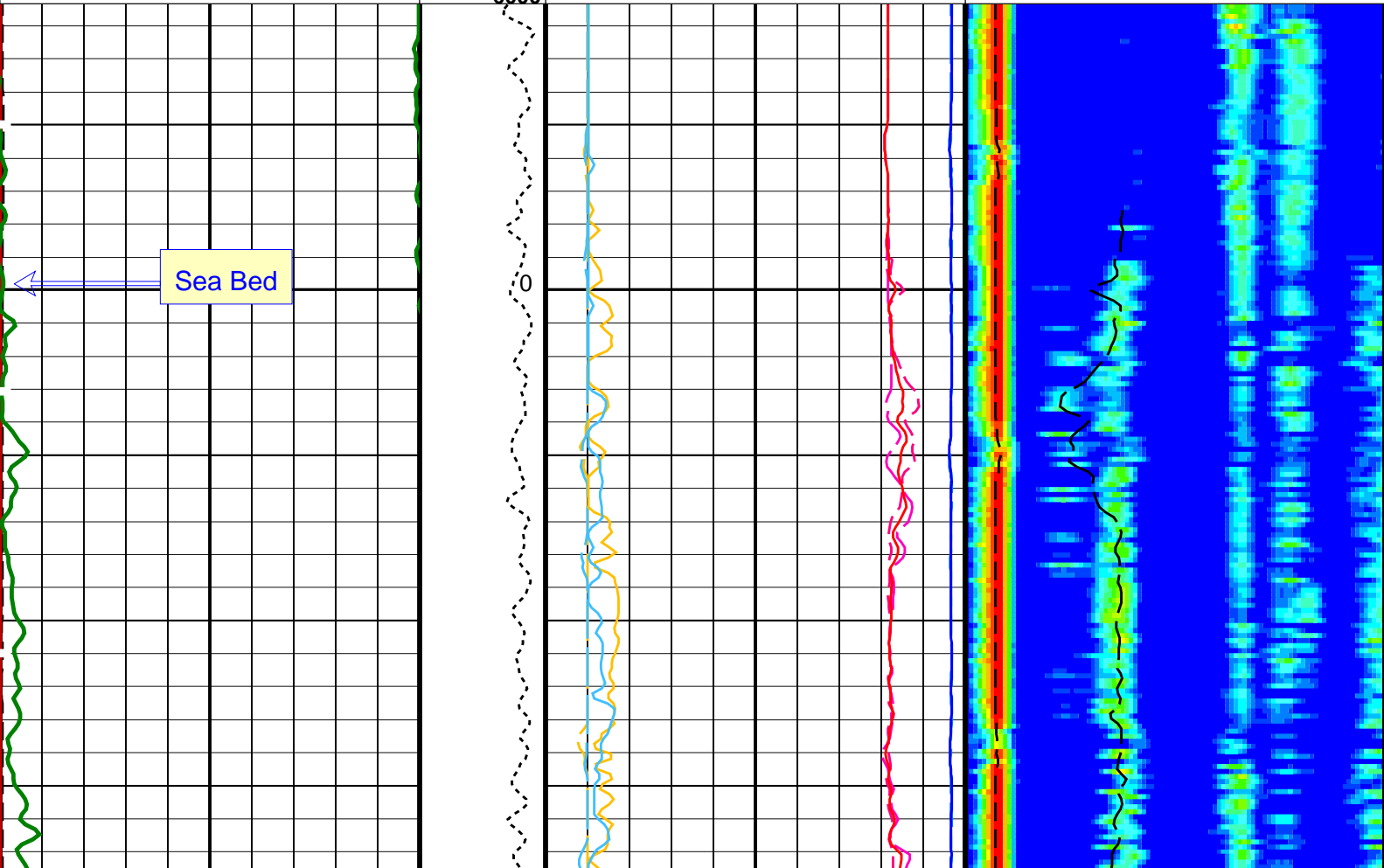
OP System Version: 19C0-187

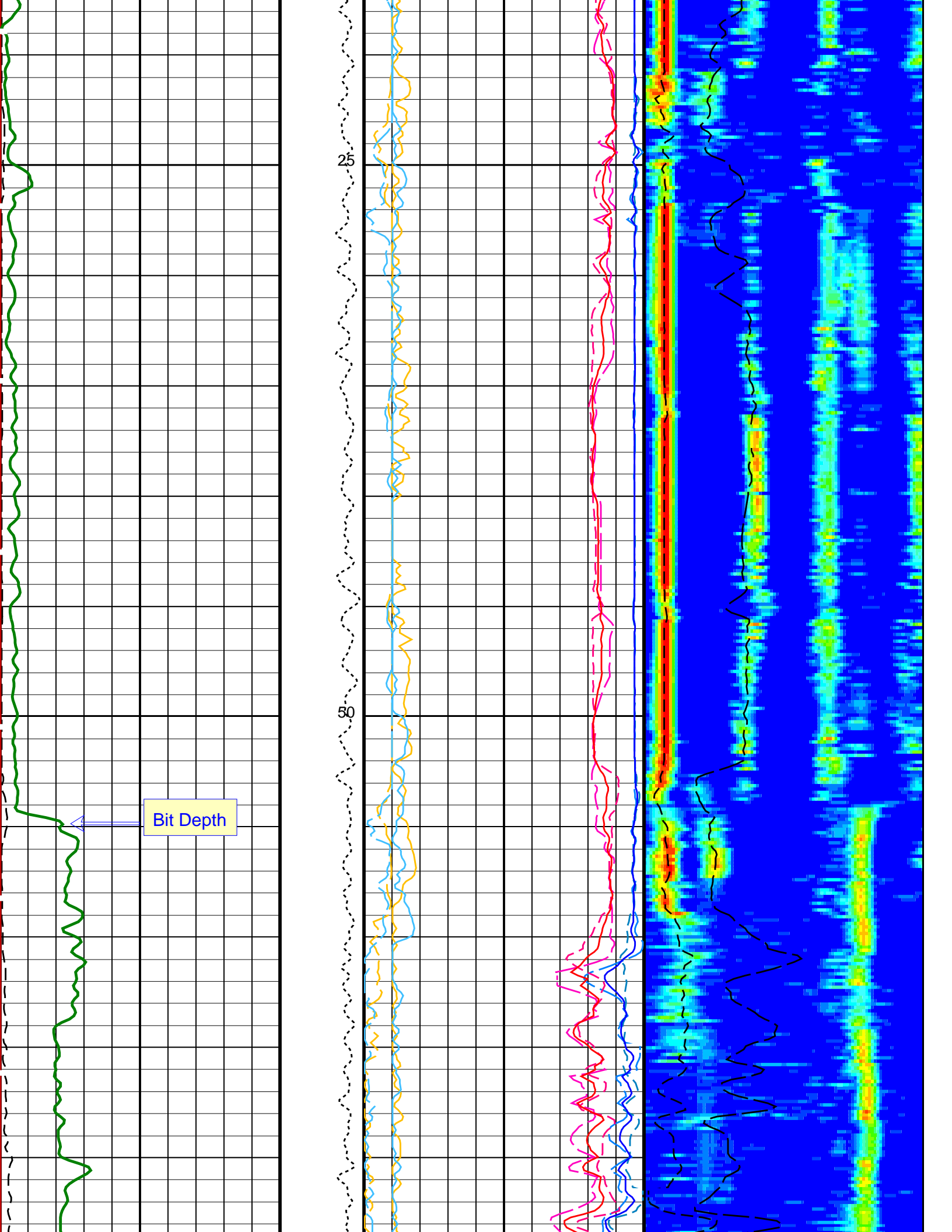
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

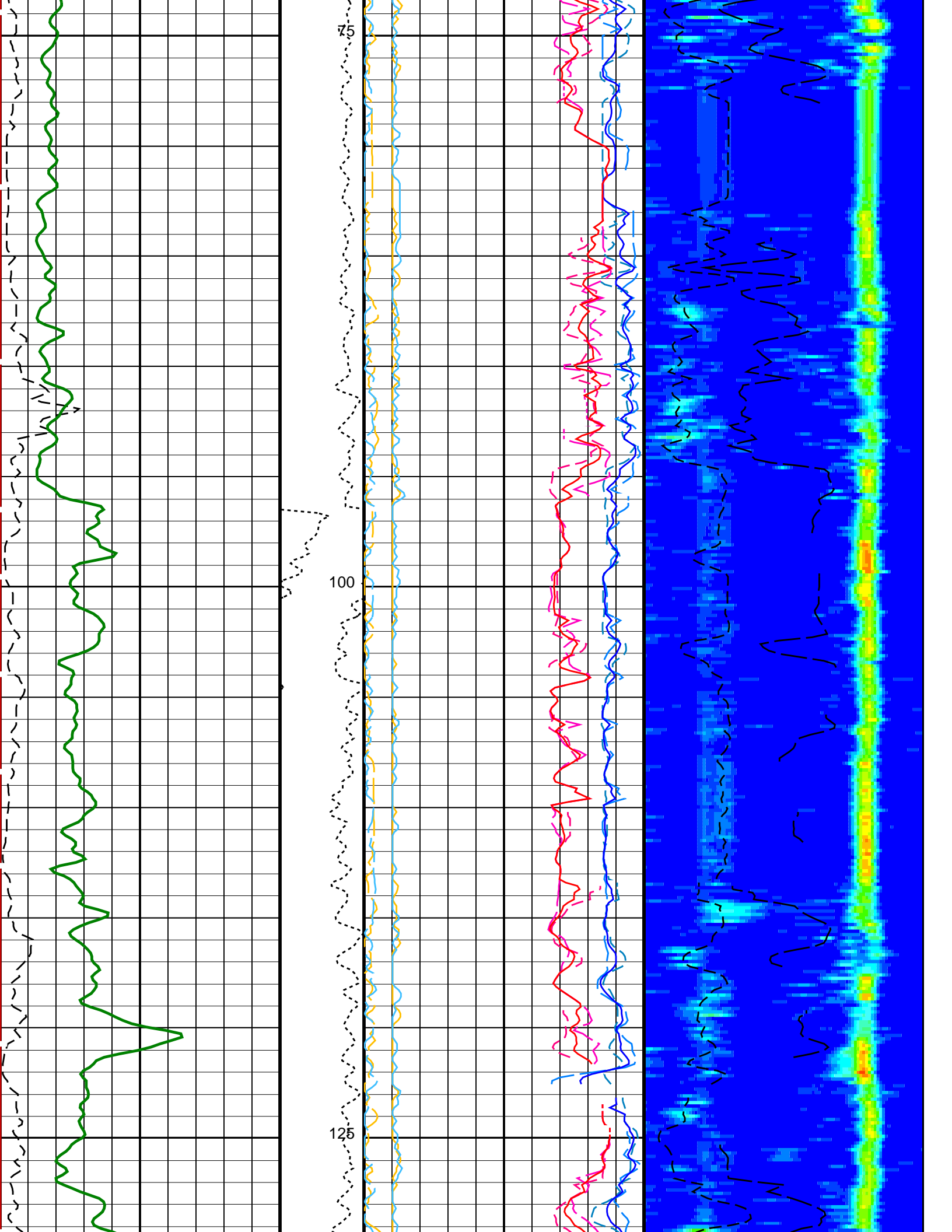
PIP SUMMARY

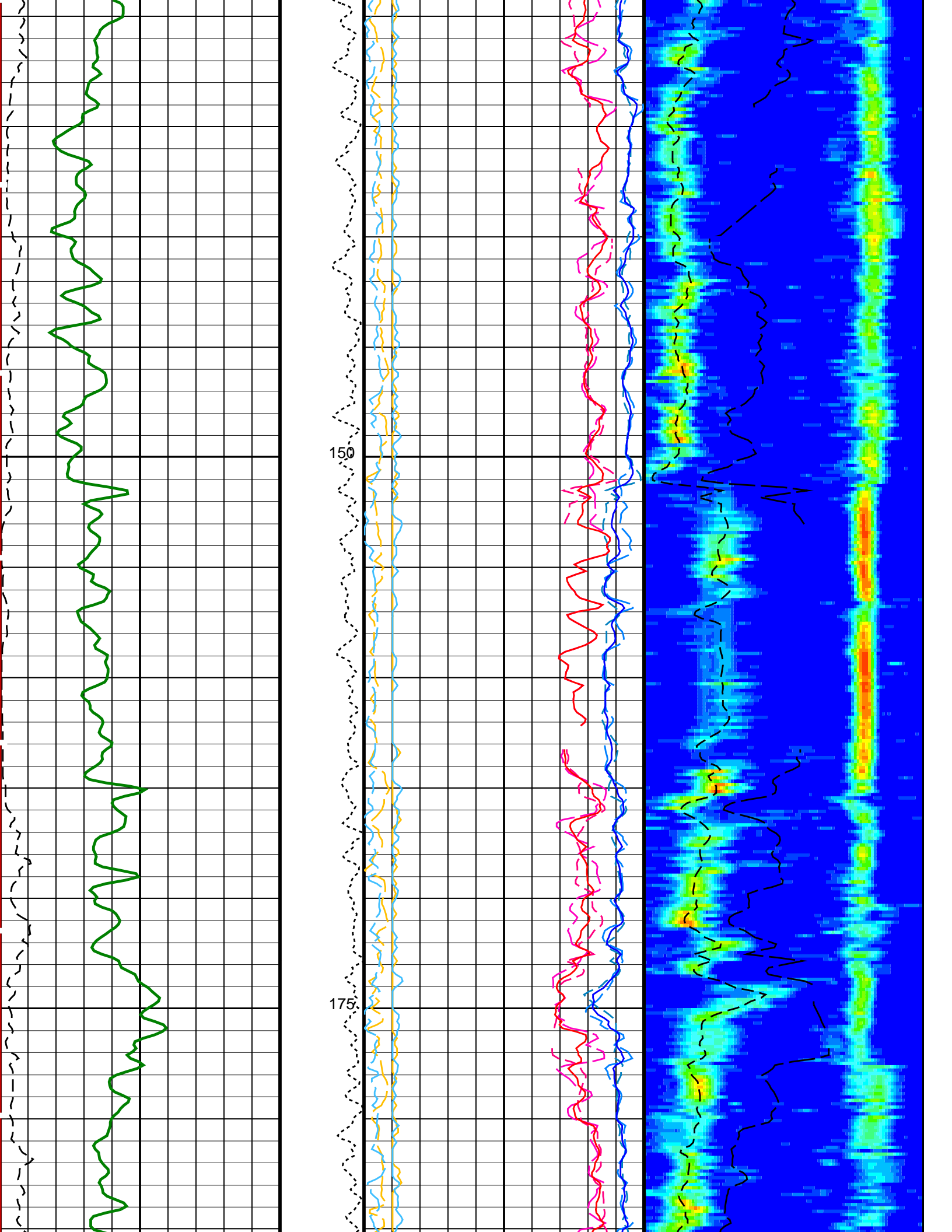
Time Mark Every 60 S

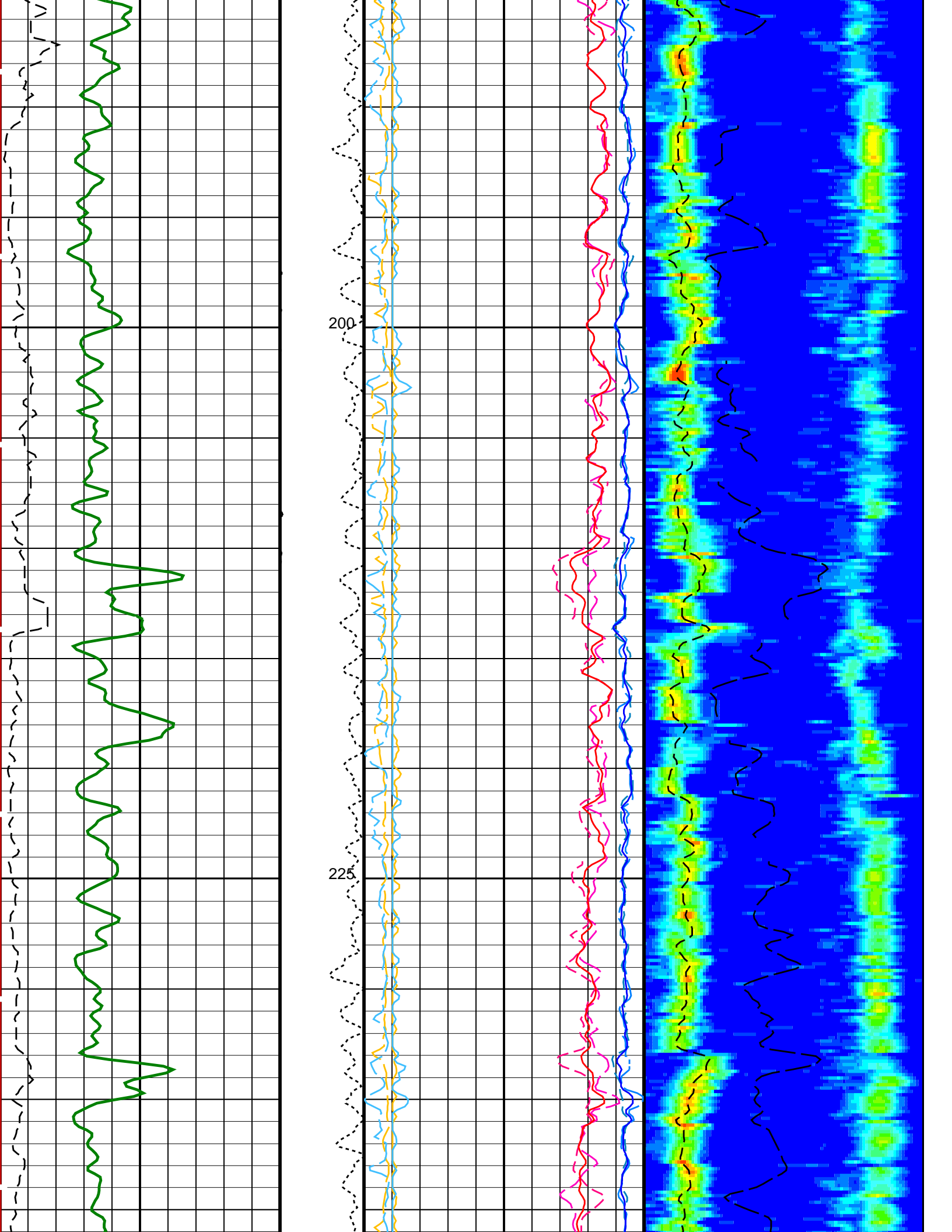
		<p>Peak Coherence / TA - P & S Shear (CHTS)</p> <p>-1 (----) 9</p>	
		<p>Delta-T Shear - P & S (DT4S)</p> <p>440 (US/F) 40</p>	
		<p>Delta-T Shear / TA - P & S (DTTS)</p> <p>440 (US/F) 40</p>	
		<p>Delta-T Shear / RA - P & S (DTRS)</p> <p>440 (US/F) 40</p>	
		<p>Delta-T Comp - P & S (DT4P)</p> <p>440 (US/F) 40</p>	
		<p>Delta-T Comp / TA - P & S (DTTP)</p> <p>440 (US/F) 40</p>	
		<p>Delta-T Comp / RA - P & S (DTRP)</p> <p>440 (US/F) 40</p>	
<p>HNGS Spectroscopy Gamma Ray (HSGR)</p> <p>0 (GAPI) 25</p>		<p>Peak Coherence / RA - P & S Shear (CHRS)</p> <p>-1 (----) 9</p>	<p>Min Amplitude Max</p> <p>Rec.Array P&S Slow Proj. CVDL (SPR4)</p> <p>40 (US/F) 240</p>
<p>Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)</p> <p>0 (----) 10</p>		<p>Peak Coherence / TA - P & S Comp (CHTP)</p> <p>0 (----) 10</p>	<p>Delta-T Shear / RA - P & S (DTRS)</p> <p>40 (US/F) 240</p>
<p>SAM4 Waveform Gain (WFG4)</p> <p>0 (----) 1000</p>	<p>Tension (TENS) (LBF)</p> <p>4000 6000</p>	<p>Peak Coherence / RA - P & S Comp (CHRP)</p> <p>0 (----) 10</p>	<p>Delta-T Comp / RA - P & S (DTRP)</p> <p>40 (US/F) 240</p>

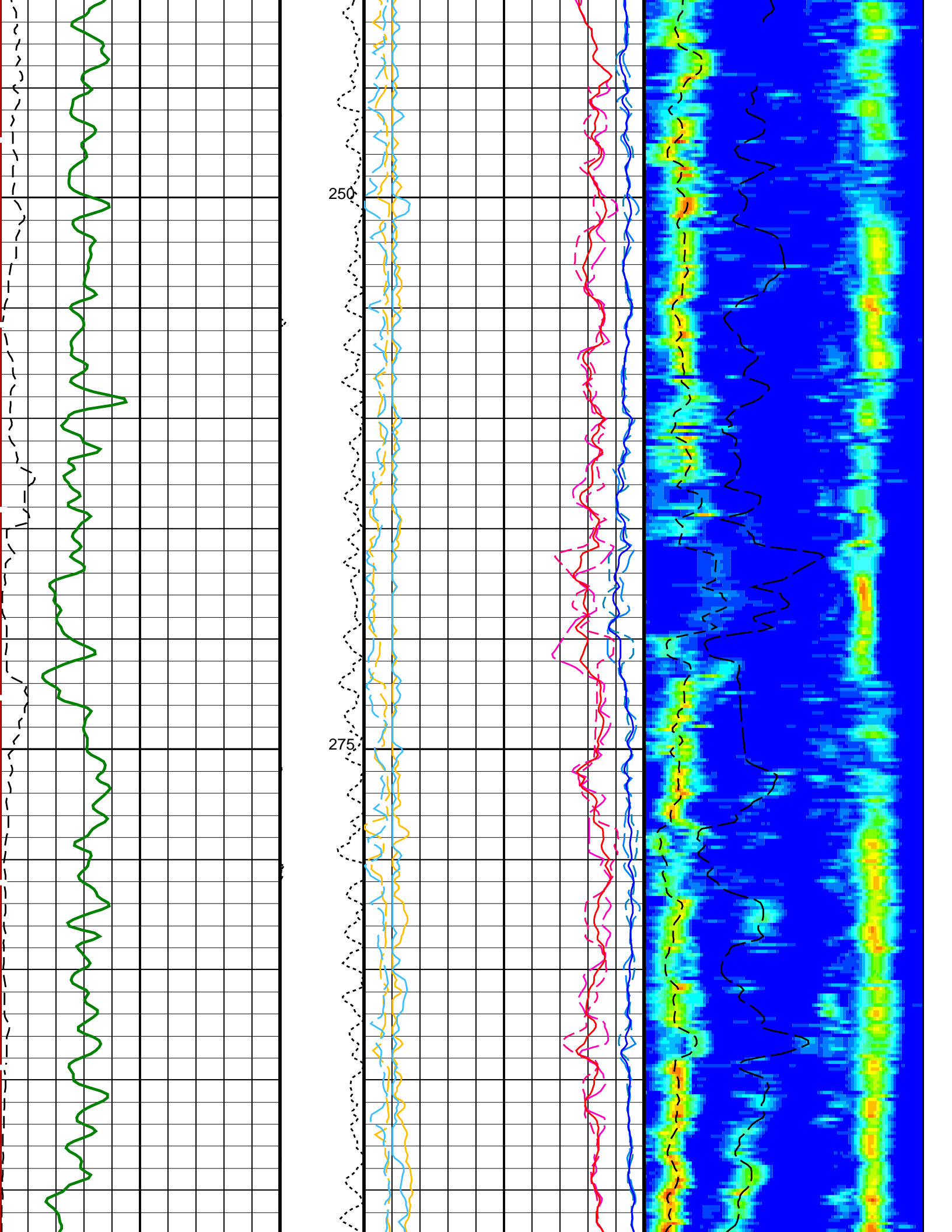


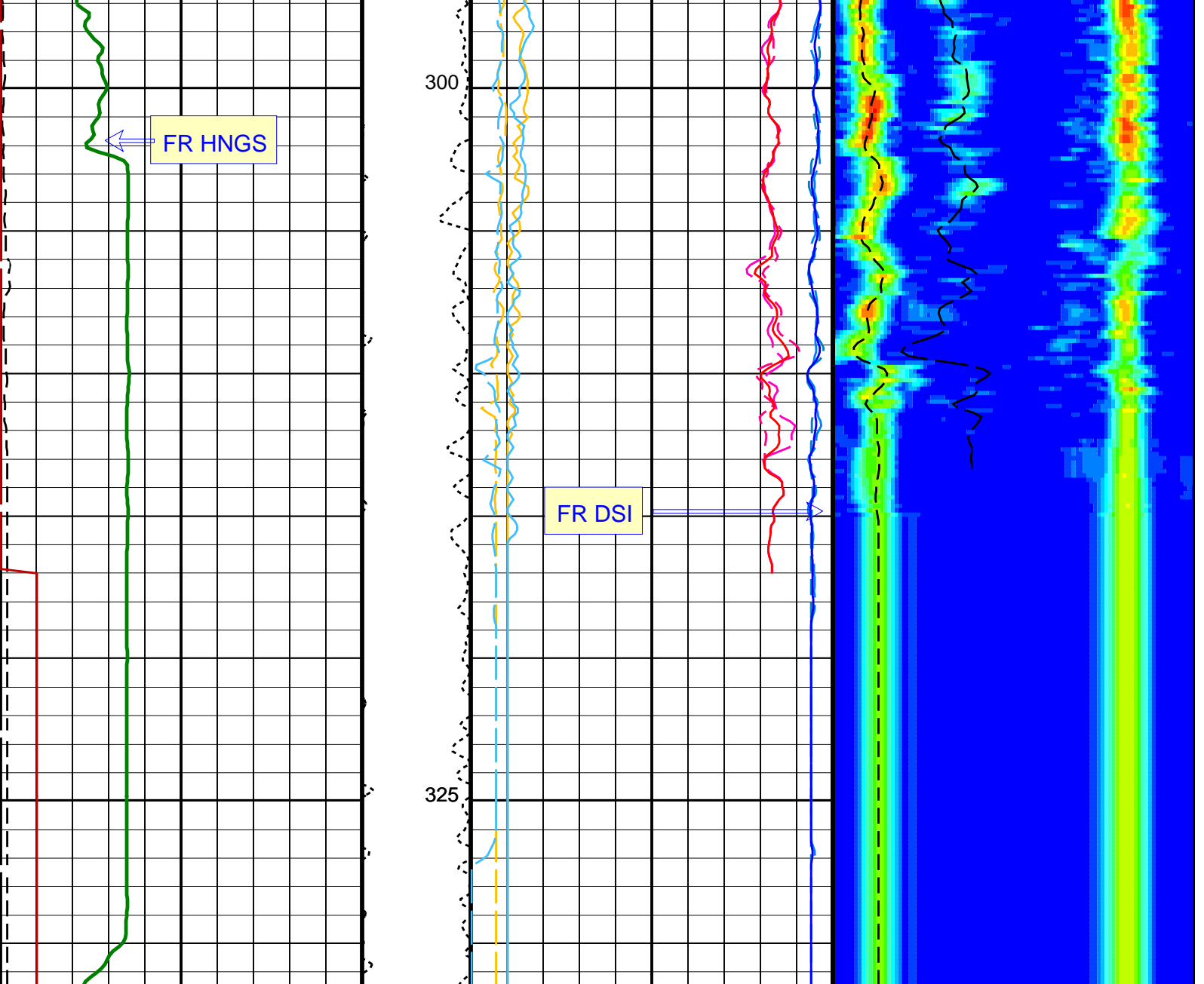












SAM4 Waveform Gain (WFG4)	(----)	1000
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)	(----)	10
HNGS Spectroscopy Gamma Ray (HSGR)	(GAPI)	25

Tension (TENS) (LBF)	4000	6000
Peak Coherence / RA - P & S Comp (CHRP)	(----)	10
Peak Coherence / TA - P & S Comp (CHTP)	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)	(----)	9

Delta-T Comp / RA - P & S (DTRP)	(US/F)	40	240
Delta-T Shear / RA - P & S (DTRS)	(US/F)	40	240
Min	Amplitude	Max	
Rec.Array P&S Slow Proj. CVDL (SPR4)			
40	(US/F)	240	

Delta-T Comp / RA - P & S (DTRP)	(US/F)	440	40
Delta-T Comp / TA - P & S (DTTP)	(US/F)	440	40
Delta-T Comp - P & S (DT4P)	(US/F)	440	40
Delta-T Shear / RA - P & S (DTRS)	(US/F)	440	40
Delta-T Shear / TA - P & S (DTTS)	(US/F)	440	40

Delta-T Comp / RA - P & S (DTRP)	(US/F)	440	40
Delta-T Comp / TA - P & S (DTTP)	(US/F)	440	40
Delta-T Comp - P & S (DT4P)	(US/F)	440	40
Delta-T Shear / RA - P & S (DTRS)	(US/F)	440	40
Delta-T Shear / TA - P & S (DTTS)	(US/F)	440	40

Delta-T Comp / RA - P & S (DTRP)	(US/F)	440	40
Delta-T Comp / TA - P & S (DTTP)	(US/F)	440	40
Delta-T Comp - P & S (DT4P)	(US/F)	440	40
Delta-T Shear / RA - P & S (DTRS)	(US/F)	440	40
Delta-T Shear / TA - P & S (DTTS)	(US/F)	440	40

440	(US/F)	40
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40
Peak Coherence / TA - P & S Shear (CHTS)		
-1	(----)	9

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	40	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180	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	EVEN	
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	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	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	240	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	3660	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	
WFM4	Waveform Mode 4	W1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	

H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00680191	
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	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-4423.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_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
---------	--------------------	-------	----------	-------------------	----------	----------

Output DLIS Files

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



Up Pass #1

MAXIS Field Log

Company: Lamont Doherty Well: Expedition 336, Site U1383C

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
---------	--------------------	-------	----------	-------------------	---------	--------

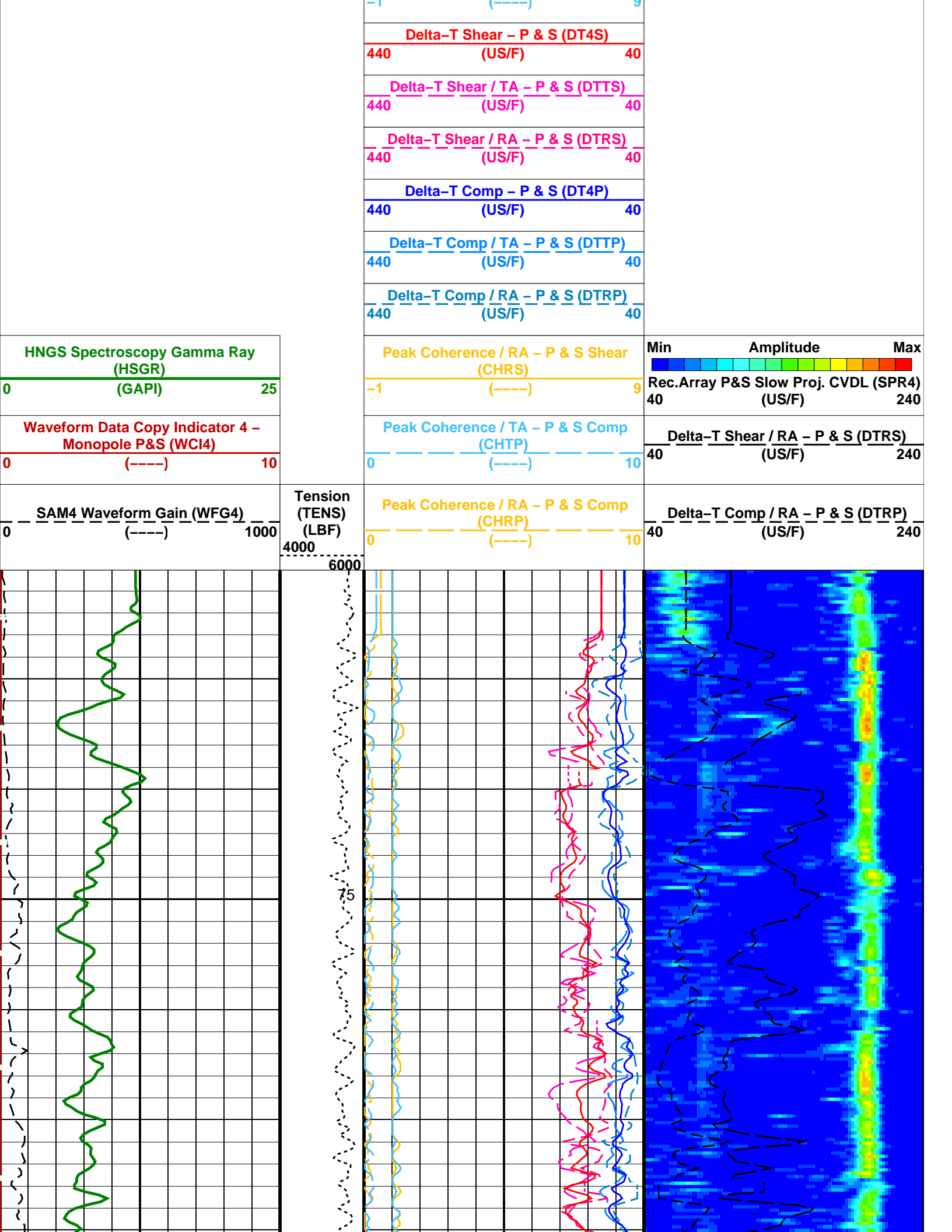
OP System Version: 19C0-187

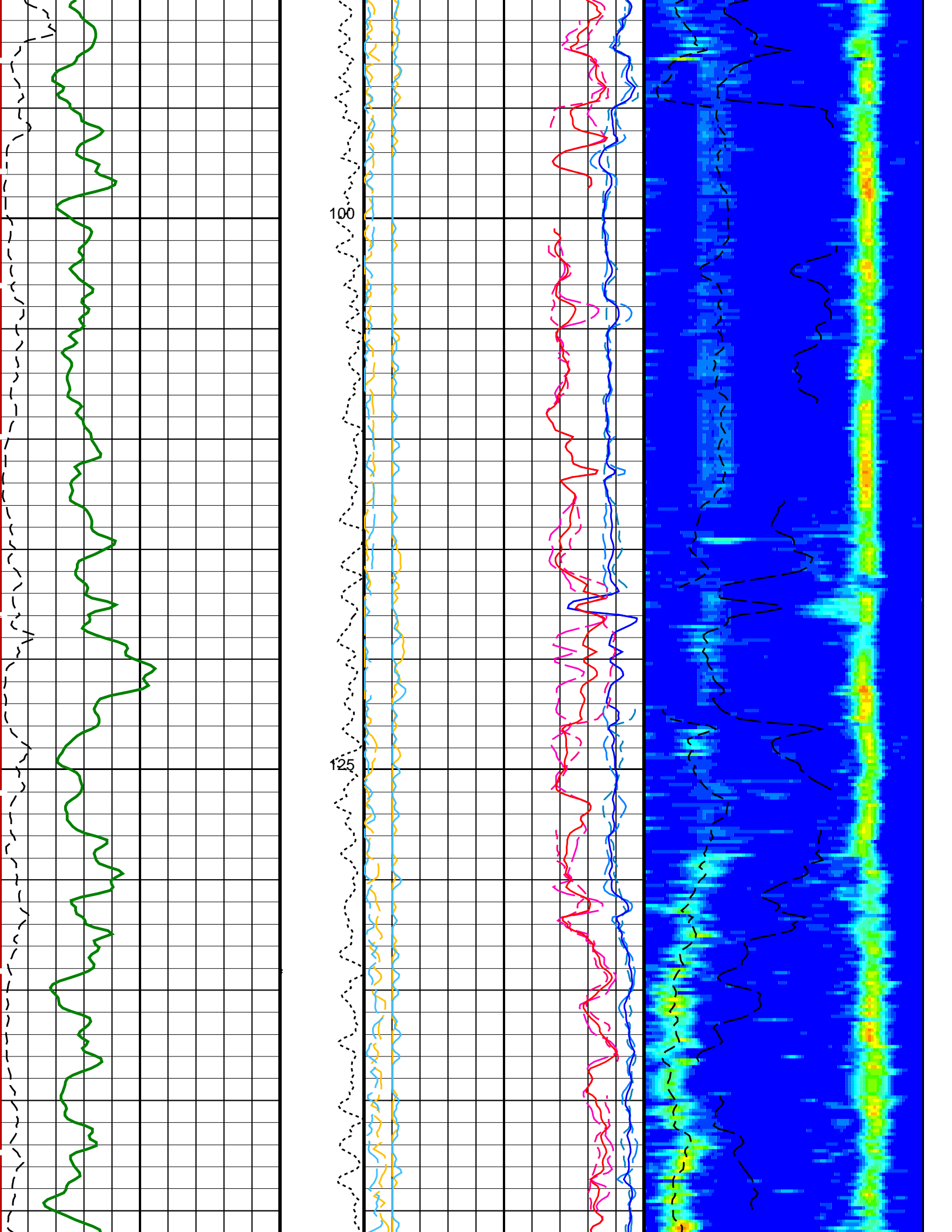
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

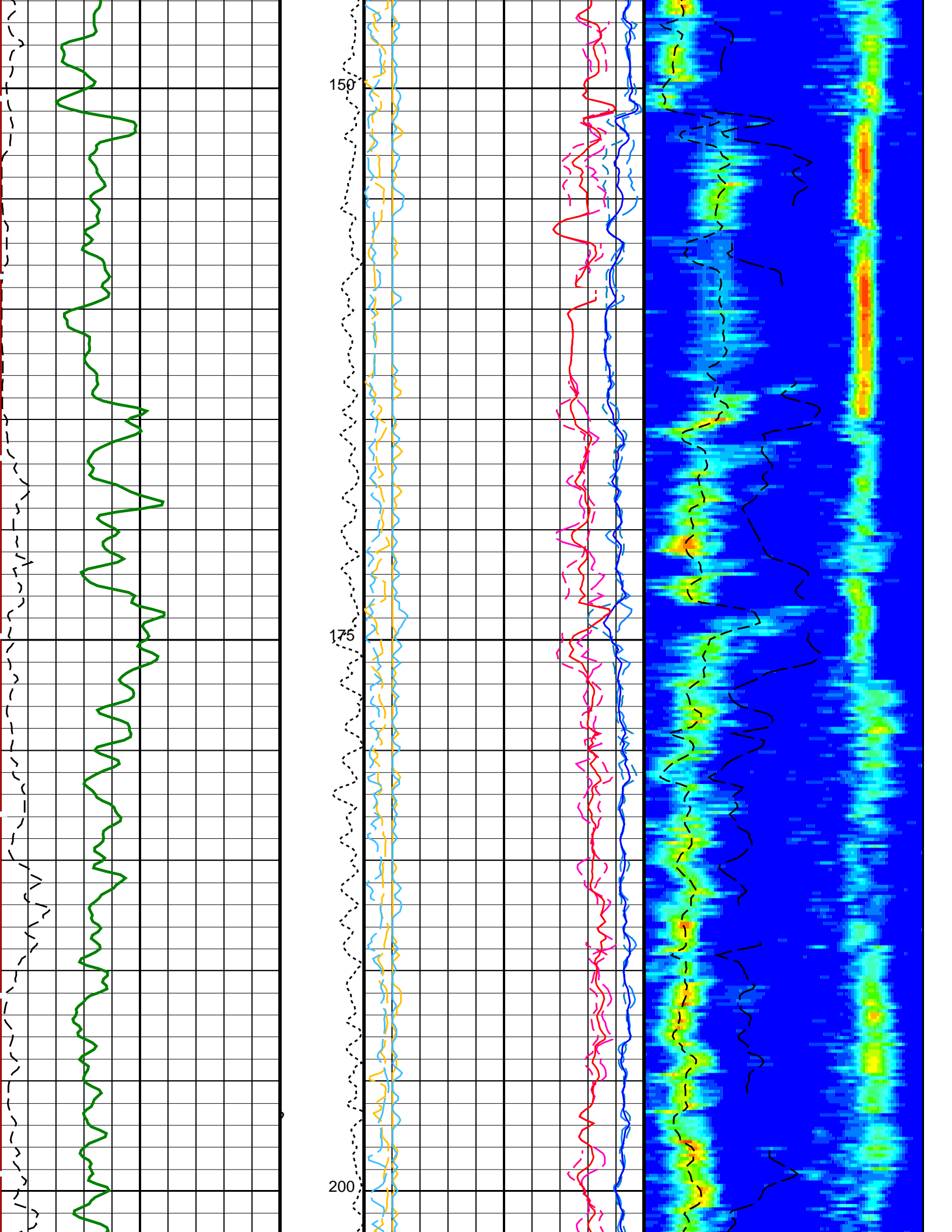
PIP SUMMARY

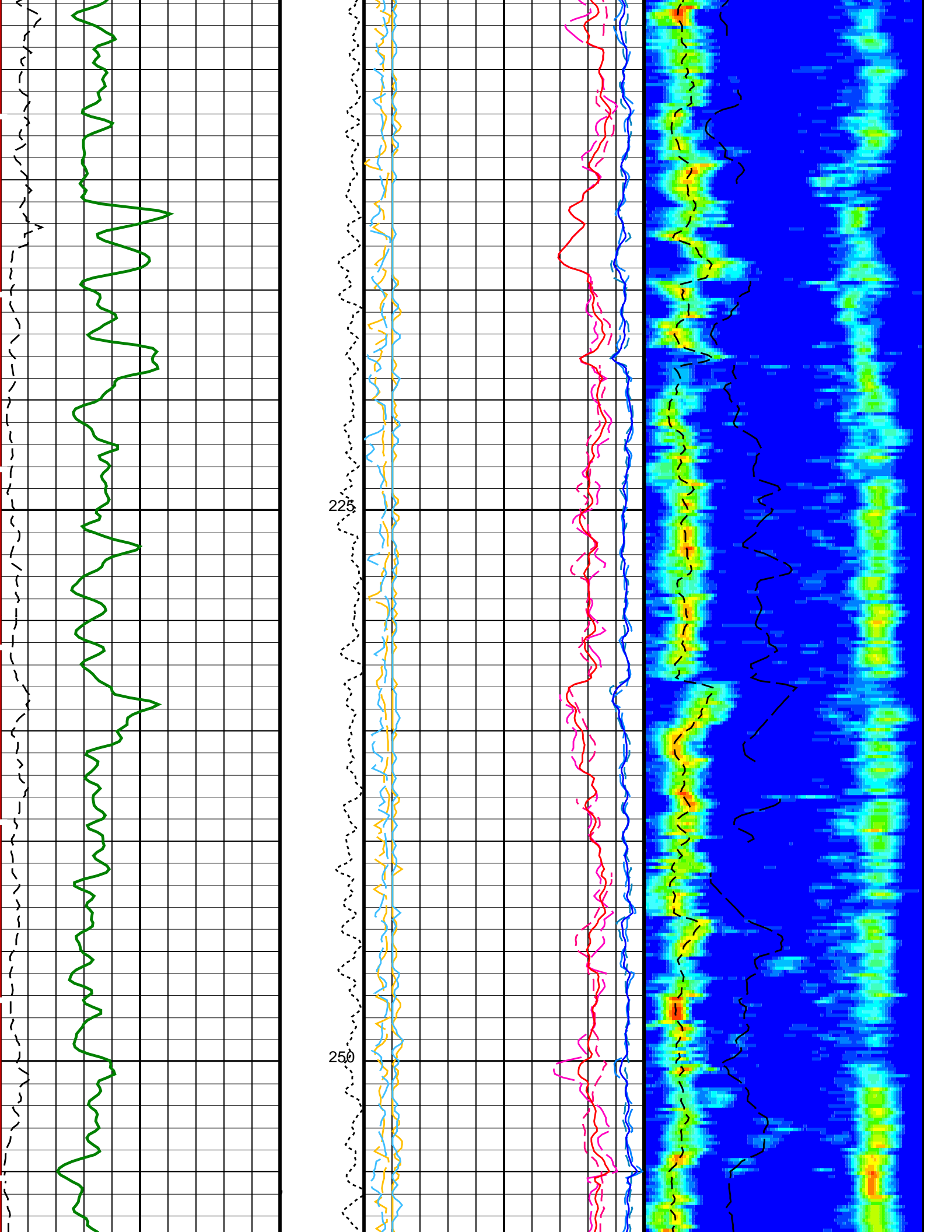
Time Mark Every 60 S

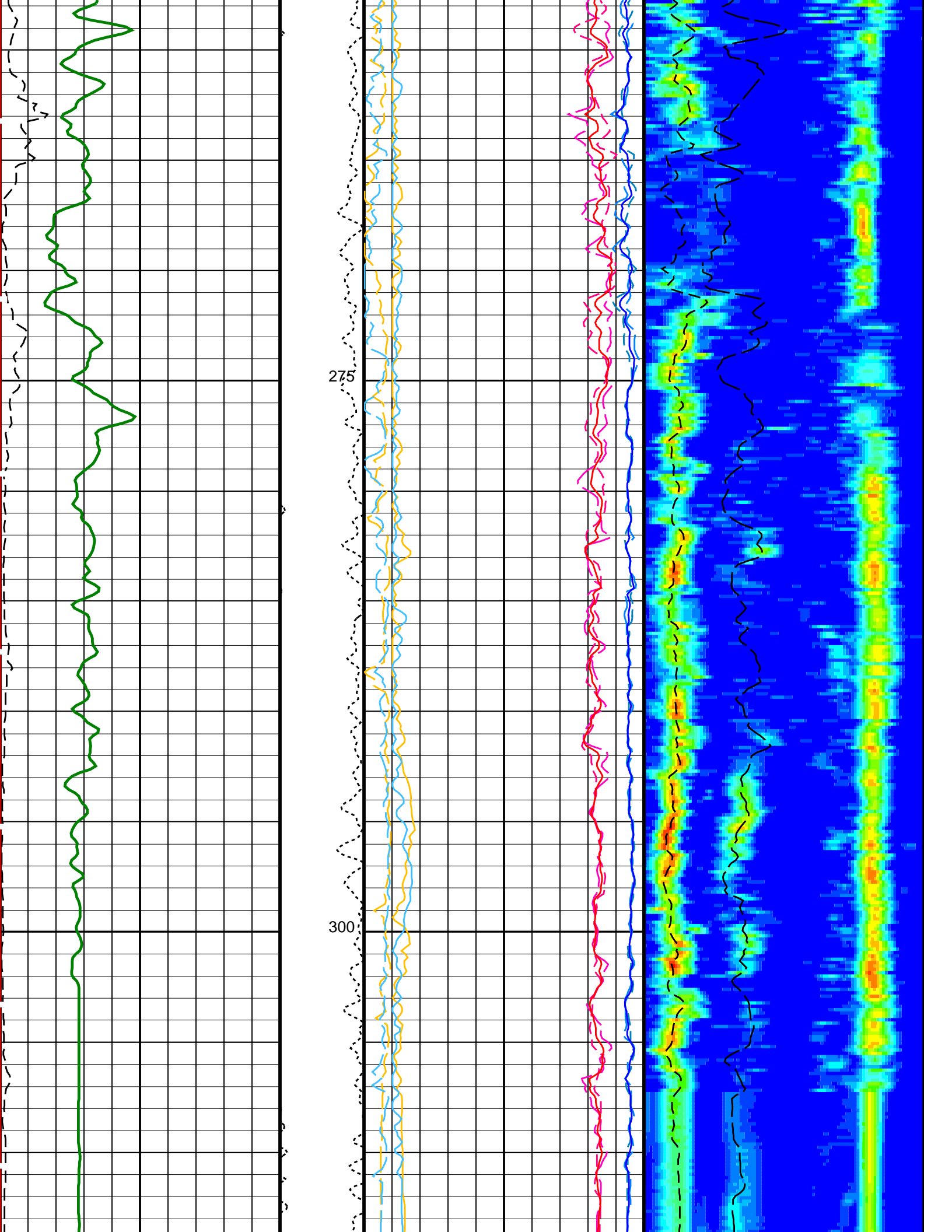
Peak Coherence / TA - P & S Shear
(CHTS)

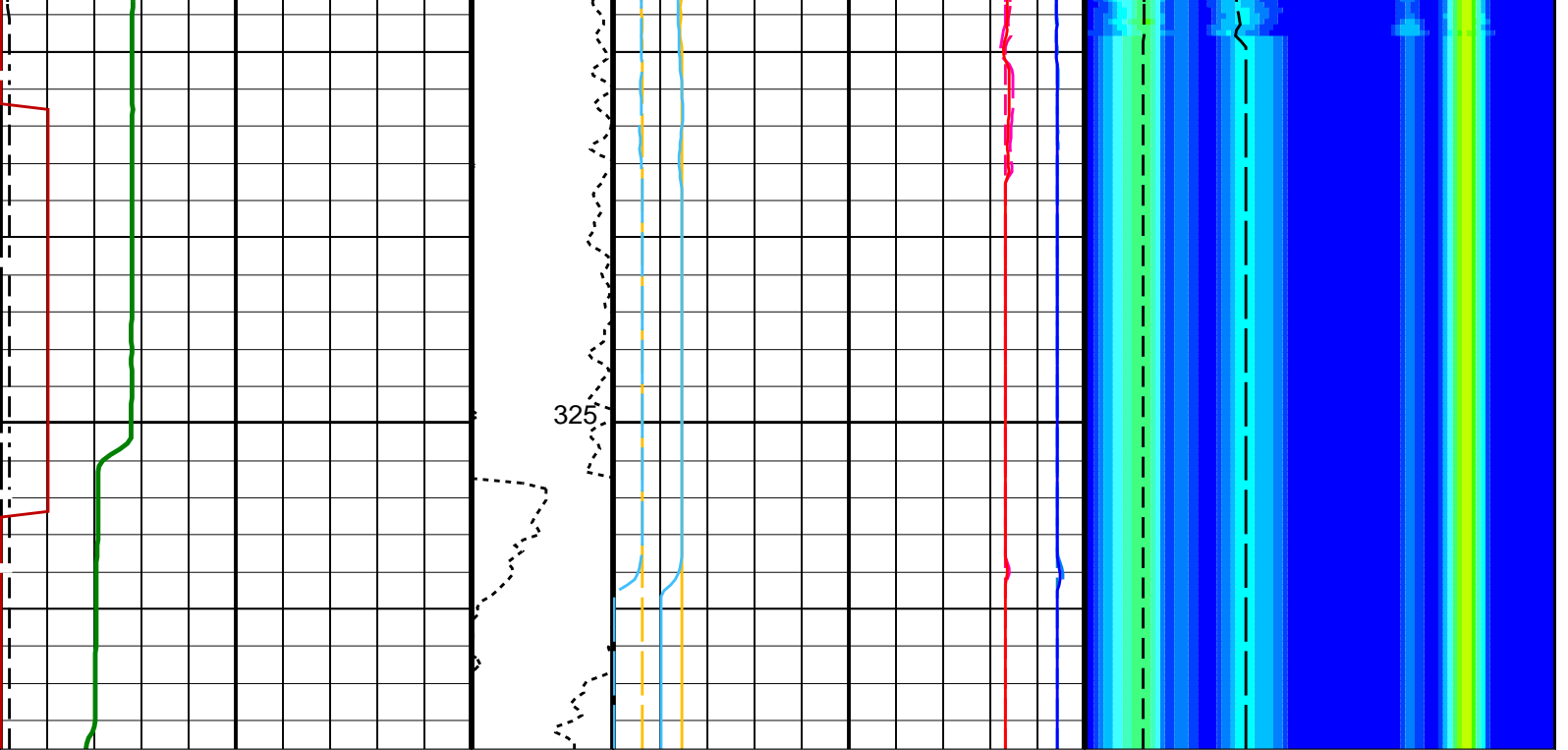












<p>SAM4 Waveform Gain (WFG4) (----) 1000</p>	<p>Tension (TENS) (LBF) 4000 6000</p>	<p>Peak Coherence / RA - P & S Comp (CHRP) (----) 10</p>	<p>Delta-T Comp / RA - P & S (DTRP) (US/F) 240</p>
<p>Waveform Data Copy Indicator 4 - Monopole P&S (WCI4) (----) 10</p>		<p>Peak Coherence / TA - P & S Comp (CHTP) (----) 10</p>	<p>Delta-T Shear / RA - P & S (DTRS) (US/F) 240</p>
<p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 25</p>		<p>Peak Coherence / RA - P & S Shear (CHRS) (----) 9</p>	<p>Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) (US/F) 240</p>
		<p>Delta-T Comp / RA - P & S (DTRP) (US/F) 40</p>	
		<p>Delta-T Comp / TA - P & S (DTTP) (US/F) 40</p>	
		<p>Delta-T Comp - P & S (DT4P) (US/F) 40</p>	
		<p>Delta-T Shear / RA - P & S (DTRS) (US/F) 40</p>	
		<p>Delta-T Shear / TA - P & S (DTTS) (US/F) 40</p>	
		<p>Delta-T Shear - P & S (DT4S) (US/F) 40</p>	
		<p>Peak Coherence / TA - P & S Shear (CHTS) (----) 9</p>	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BHS CASF	DSST-B: Dipole Shear Imager - B Borehole Status Label Casing Function - Monopole P&S	OPEN 50

COLL	Label Slowness Lower Limit - Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180	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	EVEN	
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	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	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	240	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	3660	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	
WFM4	Waveform Mode 4	W1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00676035	
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	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-4423.5	M
PP	Playback Processing	RECOMPUTE	

OP System Version: 19C0-187

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

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		
---------	--------------------	-------	----------	-------------------	--	--



Down Log

MAXIS Field Log

Company: Lamont DohertyWell: Expedition 336, Site U1383C

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
---------	--------------------	-------	----------	-------------------	---------	---------

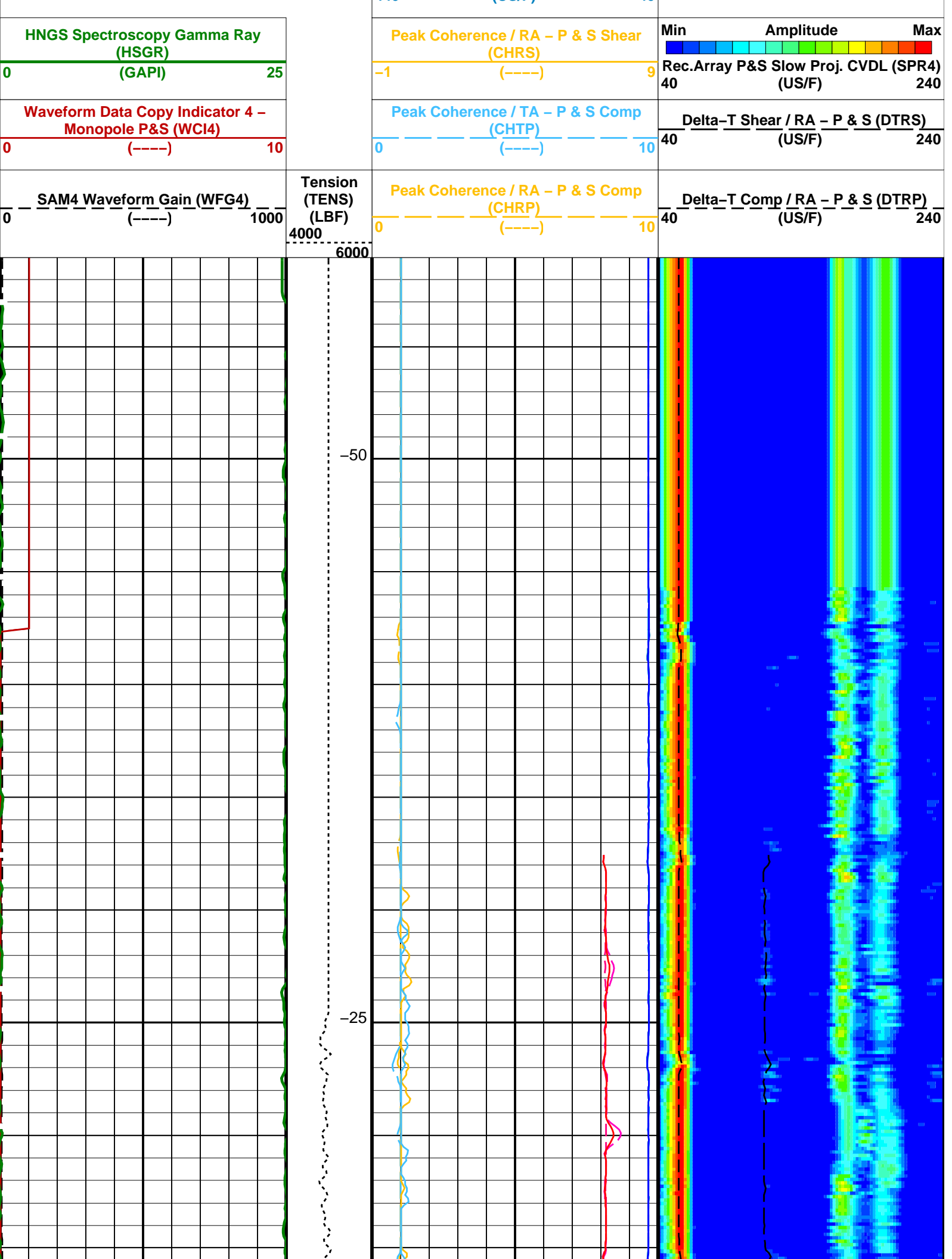
OP System Version: 19C0-187

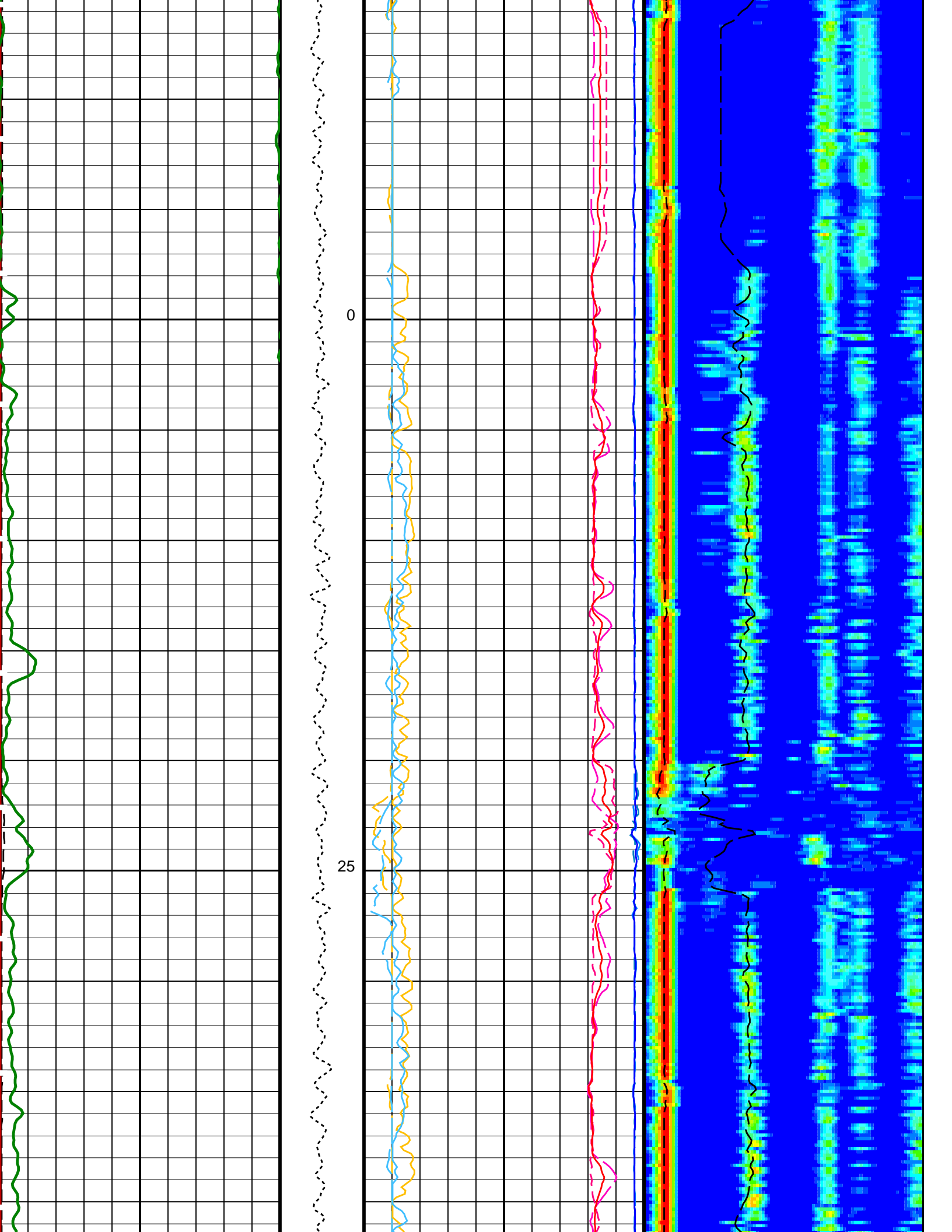
MEST-B	19C0-187	DTA-A	19C0-187
DSST-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	19C0-187

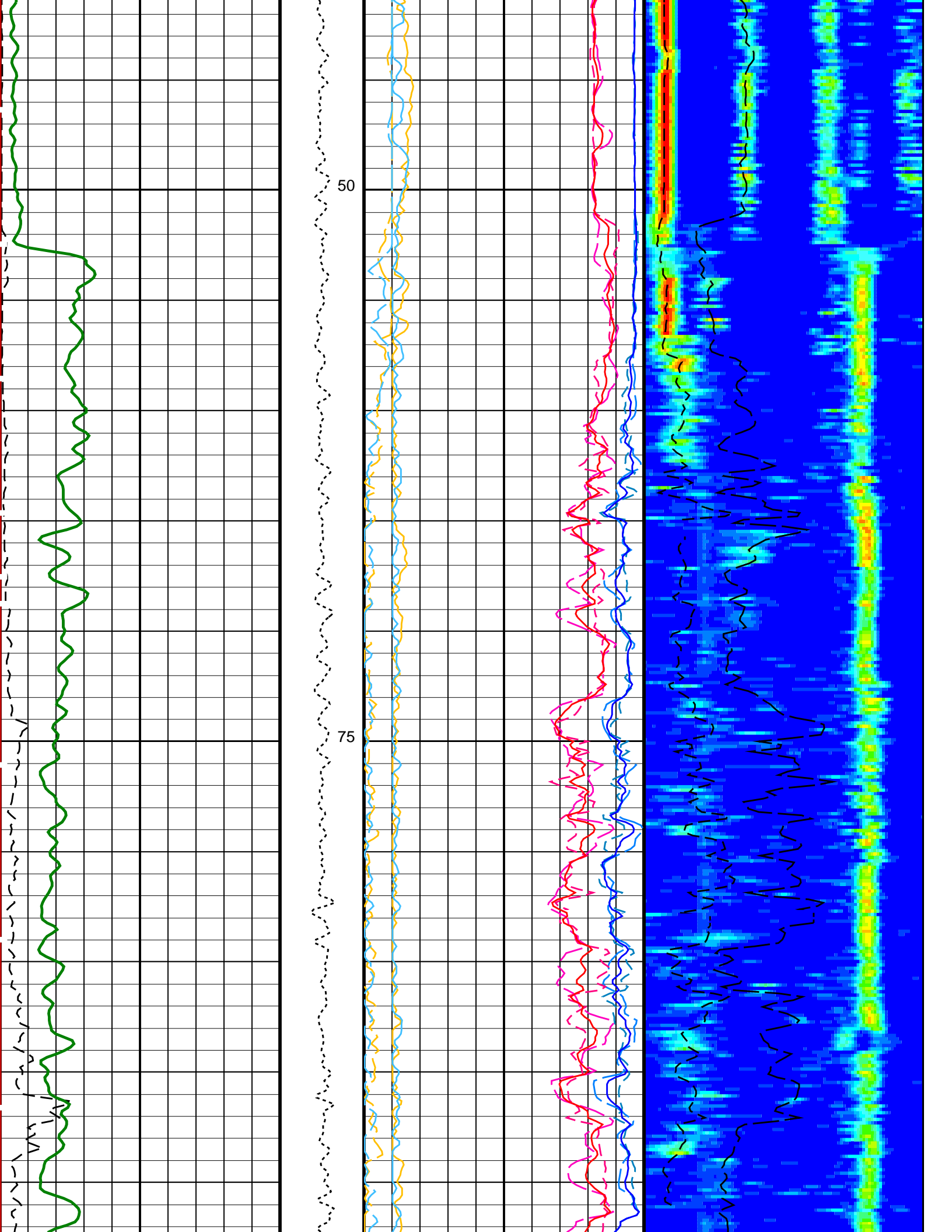
PIP SUMMARY

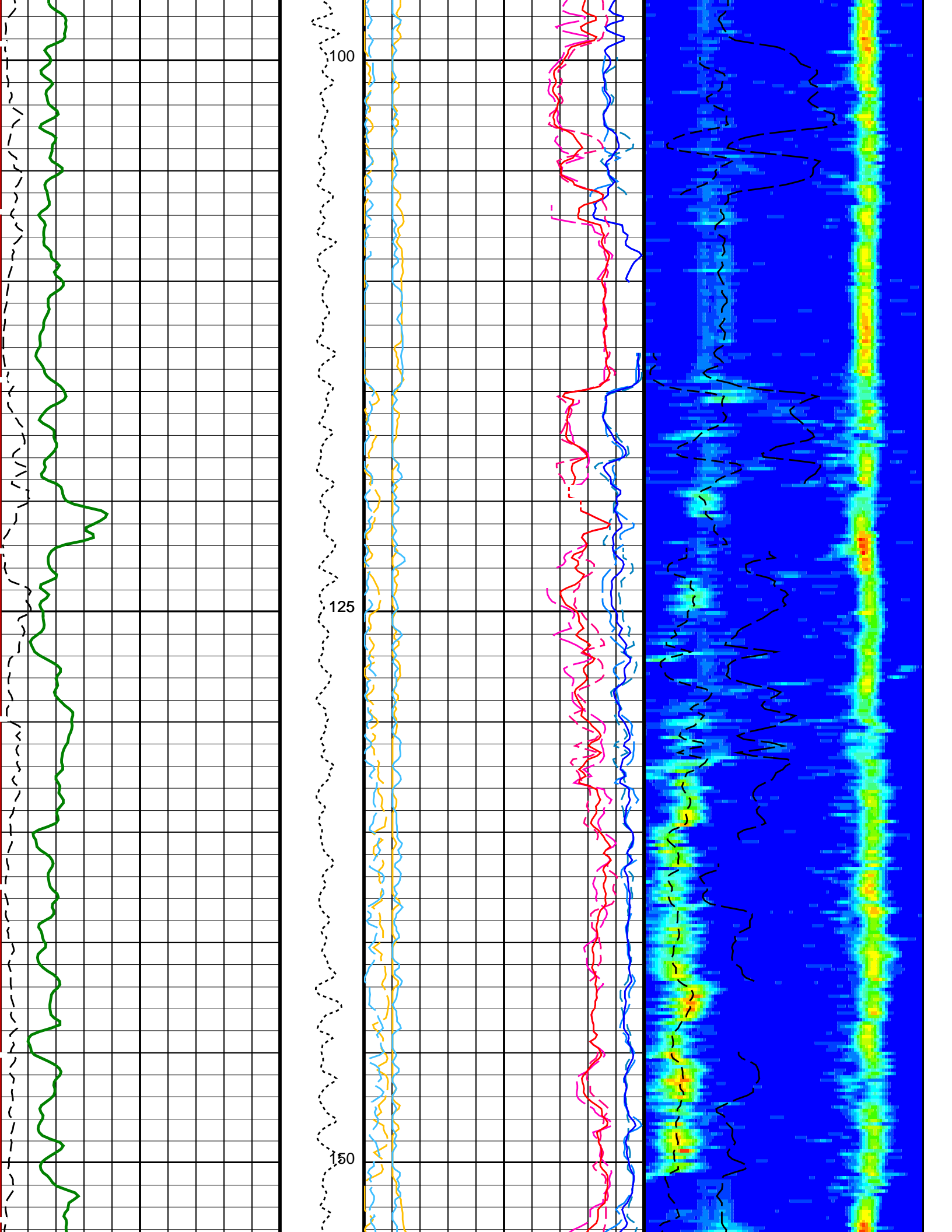
Time Mark Every 60 S

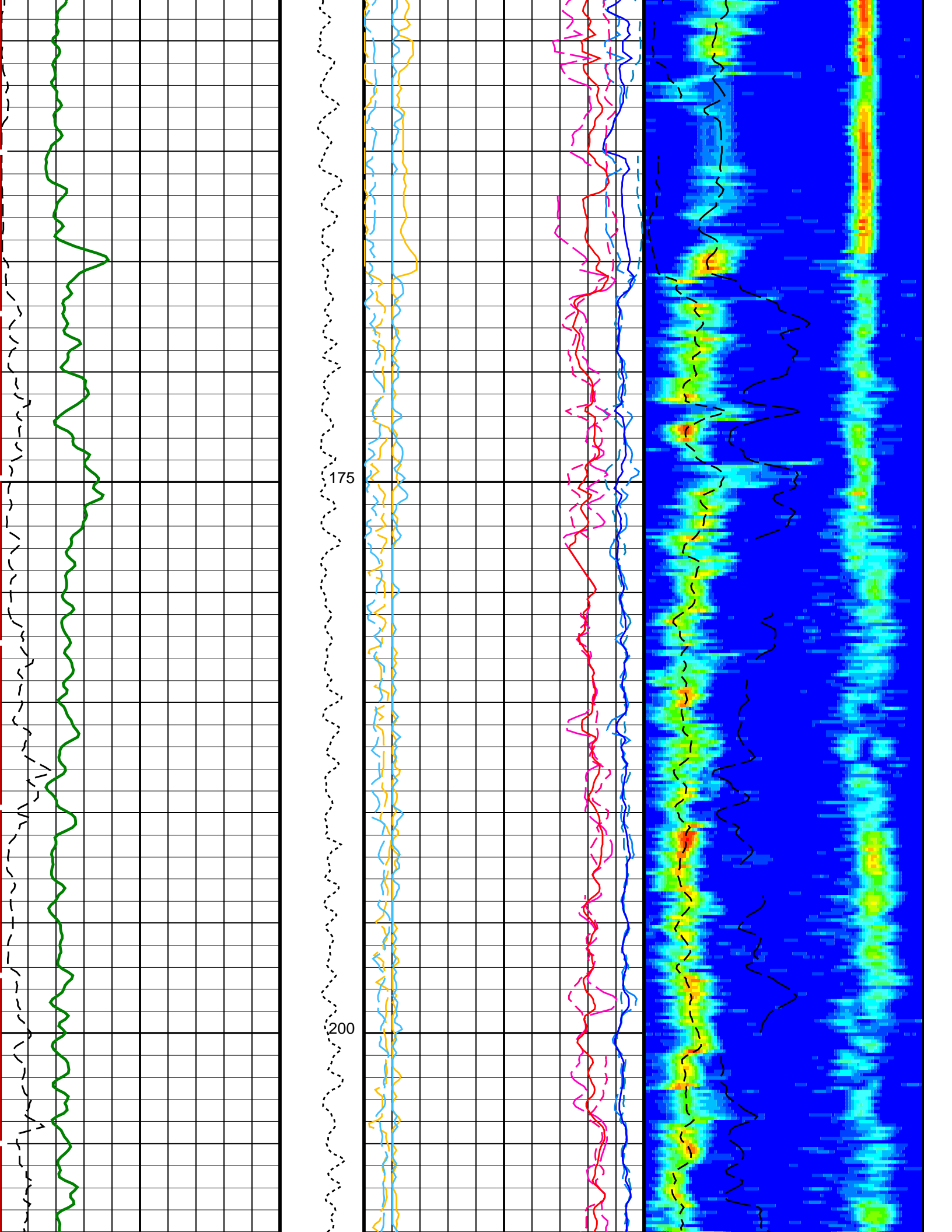
Peak Coherence / TA - P & S Shear (CHTS)		
-1	(----)	9
Delta-T Shear - P & S (DT4S)		
440	(US/F)	40
Delta-T Shear / TA - P & S (DTTS)		
440	(US/F)	40
Delta-T Shear / RA - P & S (DTRS)		
440	(US/F)	40
Delta-T Comp - P & S (DT4P)		
440	(US/F)	40
Delta-T Comp / TA - P & S (DTTP)		
440	(US/F)	40
Delta-T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

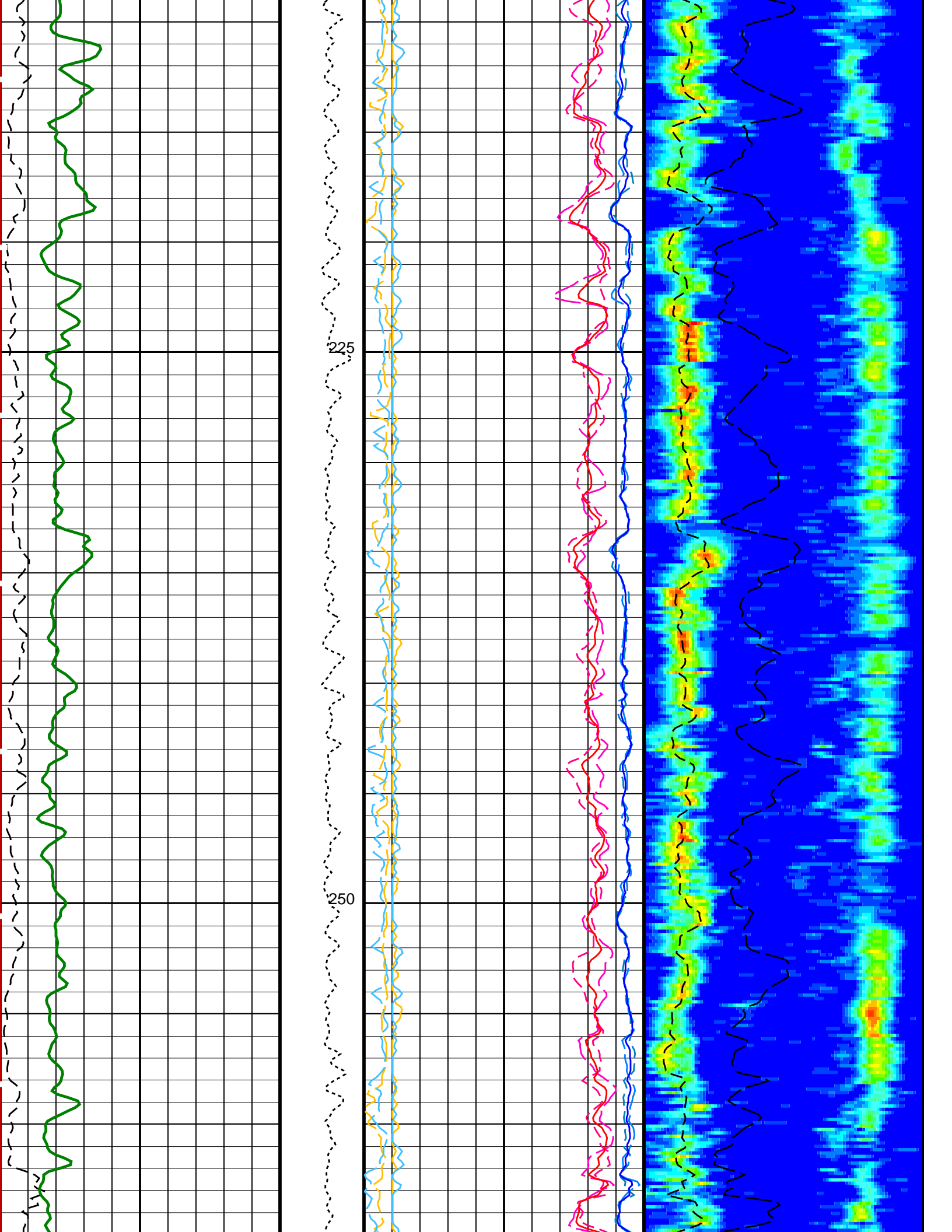


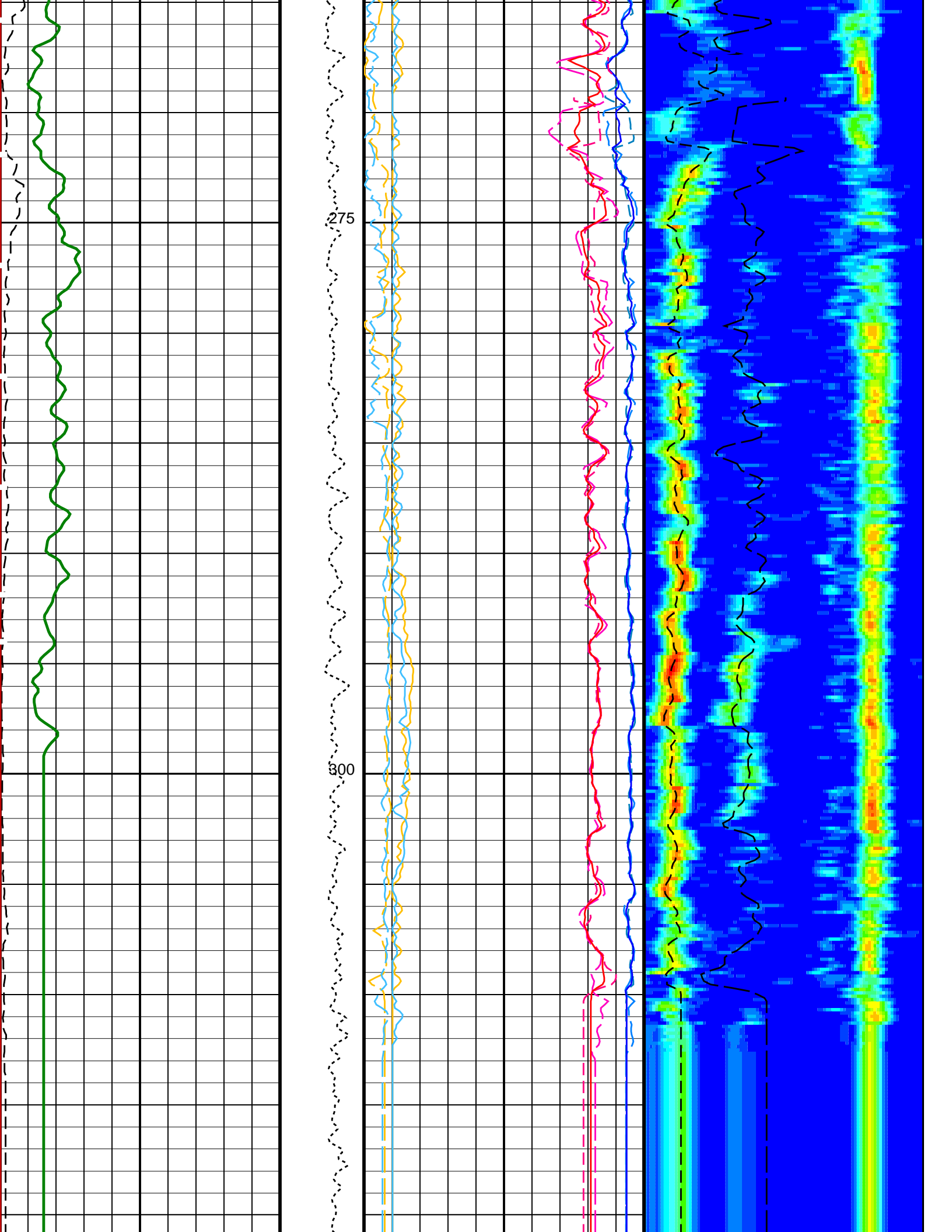


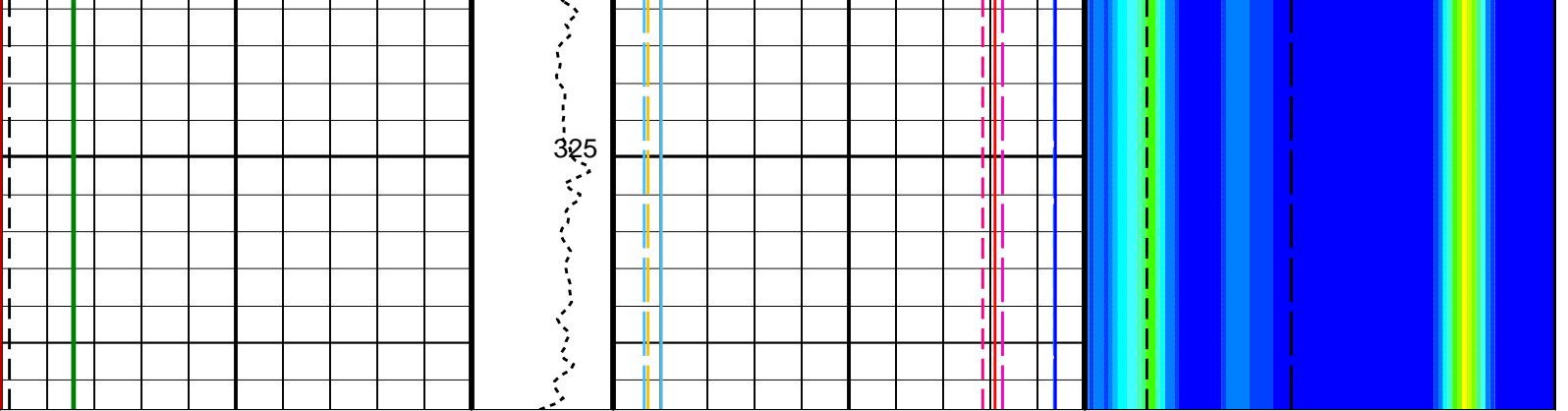












<p>SAM4 Waveform Gain (WFG4) 0 (----) 1000</p>	<p>Tension (TENS) (LBF) 4000 6000</p>	<p>Peak Coherence / RA - P & S Comp (CHRP) 0 (----) 10</p>	<p>Delta-T Comp / RA - P & S (DTRP) 40 (US/F) 240</p>
<p>Waveform Data Copy Indicator 4 - Monopole P&S (WCI4) 0 (----) 10</p>		<p>Peak Coherence / TA - P & S Comp (CHTP) 0 (----) 10</p>	<p>Delta-T Shear / RA - P & S (DTRS) 40 (US/F) 240</p>
<p>HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 25</p>		<p>Peak Coherence / RA - P & S Shear (CHRS) -1 (----) 9</p>	<p>Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240</p>
<p>Delta-T Comp / RA - P & S (DTRP) 440 (US/F) 40</p>			
<p>Delta-T Comp / TA - P & S (DTTP) 440 (US/F) 40</p>			
<p>Delta-T Comp - P & S (DT4P) 440 (US/F) 40</p>			
<p>Delta-T Shear / RA - P & S (DTRS) 440 (US/F) 40</p>			
<p>Delta-T Shear / TA - P & S (DTTS) 440 (US/F) 40</p>			
<p>Delta-T Shear - P & S (DT4S) 440 (US/F) 40</p>			
<p>Peak Coherence / TA - P & S Shear (CHTS) -1 (----) 9</p>			

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	40 US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180 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	EVEN	
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	75	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	180	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	240	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	3660	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	
WFM4	Waveform Mode 4	W1	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00676035	
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	
EDTC–B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	-4425.3	M
PP	Playback Processing	NORMAL	

Format: DSST_P_S_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
---------	-------------------------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT

FMS_DSI_NGS_055PUP

FN:51

PRODUCER

10-Nov-2011 18:25



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: 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

MEST - B

770

MEST Sonde - B
 MEST Preamplifier Cartridge - AB
 GPIT Cartridge - A
 MEST Acquisition Cartridge - A

MEDS - B 770
 MEPC - AB 807
 GPIC - A 840
 MEAC - A 875

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing
 MEST Acquisition Cartridge Housing (Slim)

MEPH - A 702
 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 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		39.54	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

Phase	Na Count Rate CPS	Value
Master		22.83
Before		20.04
After		19.20
	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		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9670
Before		0.9932
After		0.9903
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 15-Sep-2011 14:01
Before: 3-Nov-2011 17:16
After: 3-Nov-2011 23:20

Company: **Lamont Doherty**

Schlumberger

Well: **Expedition 336, Site U1383C**

Field: **North Pond**

Rig: **JOIDES Resolution**

Country: **USA**

DSI – Sonic
P & S (Monopole)