Schlumberger

Company: **Lamont Doherty Earth Observatory**

Well: **Expedition 341, Site U1418F**
Field: **Southern Alaska Margin Tectonics**
Rig: **JOIDES Resolution** Ocean: **Pacific**

Rig: JOIDES Resolution
Field: Southern Alaska Margin Tectonic
Location: Latitude: N 58* 46.5883'
Well: Expedition 341, Site U1418F
Company: Lamont Doherty Earth Observato

Dipole Shear Sonic Imager (DSI)
Upper/Lower Dipole Shear
Monopole Compressional / Gamma Ray

LOCATION

Latitude: N 58* 46.5883'	Elev.:	K.B.	−3678.00 m
Longitude: W 144* 29.5986'		G.L.	0.00 m
		D.F.	−3678.00 m

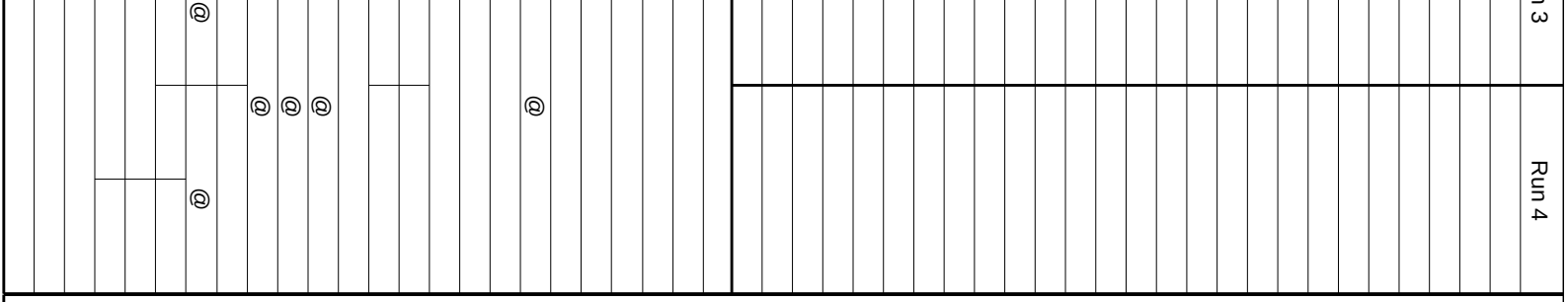
Permanent Datum:	Sea Floor	Elev.:	0.00 m
Log Measured From:	Sea Floor	−3678.00 m above Perm. Datum	
Drilling Measured From:	Drill Floor		

API Serial No.	Max. Hole Devi.	Longitude	Latitude
	0 deg	W 144.4933	N 58.7765

	Run 1	Run 2	Run

Logging Date	8−Jul−2013			
Run Number	1			
Depth Driller	948.7 m			
Schlumberger Depth	571 m			
Bottom Log Interval	571 m			
Top Log Interval	0 m			
Casing Driller Size @ Depth	5.500 in	@ 99 m	@	
Casing Schlumberger	99 m			
Bit Size	9.875 in			
Type Fluid In Hole	Seawater			
MUD Density / Viscosity	1.03 g/cm3			
MUD Fluid Loss / PH				
MUD 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	@ 18	@ 18	@	@
Maximum Recorded Temperatures	18 degC			
Circulation Stopped / Time	7−Jul−2013	18:00		
Logger On Bottom / Time	8−Jul−2013	22:45		
Unit Number / Location	625003	Houston		
Recorded By	K. Swain			
Witnessed By	A. Slagle, L. Drab			

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			
MUD 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	OTHER SERVICES2
OS1: HRLA/ HLDS	OS1:
OS2: DSI	OS2:
OS3: MSS	OS3:
OS4: VSI	OS4:
OS5: FMS	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8" BS	
Downlog used as 2nd uplog.	
There was only 1 uplog recorded so no repeat pass is available for FMS images	
or dip/caliper data.	
Tool became stuck in drillpipe after first uplog. Further logging cancelled and	
therefore no further uplogs.	
2 MCD (mechanical Caliper Device) centralizers run with HRLA.	
RCB coring bit released on bottom of hole prior to logging to allow	
wireline tools to pass out of drill collars/pipe into open hole.	
Logging originally recorded with respect to drill floor for depth but then later	
played back with a depth offset to make sea floor the depth reference as	
required to match core depth.	

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

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
GSR−U 616008 WITM (EDTS)−A	
DOWNHOLE EQUIPMENT	
LEH−MT 101 LEH−MT 101 101 EDTC−B EDTH−B 8303 EDTC−B 8317 EDTG−A/B 8305	MDSB_EDTC Mud Tempe CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele Hanger 1
35.51 34.55 33.49 32.92 34.55 32.57 31.87 32.57	

HNGS−BA
HNGS−BA 194
HNSH−BA 205

Upper_1 31.87
Lower_2 31.66

32.57

HNGC−B
HNGH−A 115

HNGC Stat 29.54

30.07

AH−MCD
AH−MCD 82

29.01

DSST−B
SPAC−B 8194
ECH−SD 8183
SMDR−BD 8232
SSIJ−BA 8204
SMDX−AA 8147

26.73

PWF 11.18

AH−MCD1
AH−MCD1 1

11.18

DTA−A 8453
ECH−KE 8456

8.90

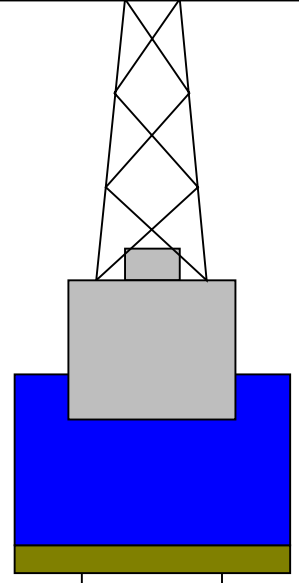
MEST−B
MEAH−B 769
MEAC−A 875
MEPH−A 702
GPIC−AC 840
MEPC−AB 807
MEDS−B 724

7.68

MEDR MEAC
MEPC MEDS−B 0.46
HV DF ACCZ
Tension GPIT 0.00
TOOL ZERO

MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in) OD	(in) ID	(M) MD	Well Schematic	(M) MD	(in) OD	(in) ID	Casing String

Kelly Bushing Elevation		−3678				
Derrick Floor Elevation		−3678				
Mean Sea Level		−3667				
					4.1	
				0	4.1	Sea Floor
				99	9.875	Open Hole
				948.7		Total Depth

Company: Lamont Doherty Earth Observatory | Well: Expedition 341, Site U1418F

Input DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:54	PRODUCER	10−Jul−2013 11:12	4252.7 M	3760.9 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_038PUP	FN:55	PRODUCER	10−Jul−2013 11:16	574.7 M	82.9 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	75

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)		
0	(−−−−)	10

Peak Coherence / RA − P & S Shear (CHRS)		
−1	(−−−−)	9

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

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

Gamma Ray (GR_EDTC)
0 (GAPI) 75

Poisson's Ratio (PR)
0 (−−−−) 0.5

Poisson's Ratio (PR)
0 (−−−−) 0.5

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Main Log

Sea Floor Depth Reference

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

Calibrated Downhole Force (CDF) (LBF)
5000 0

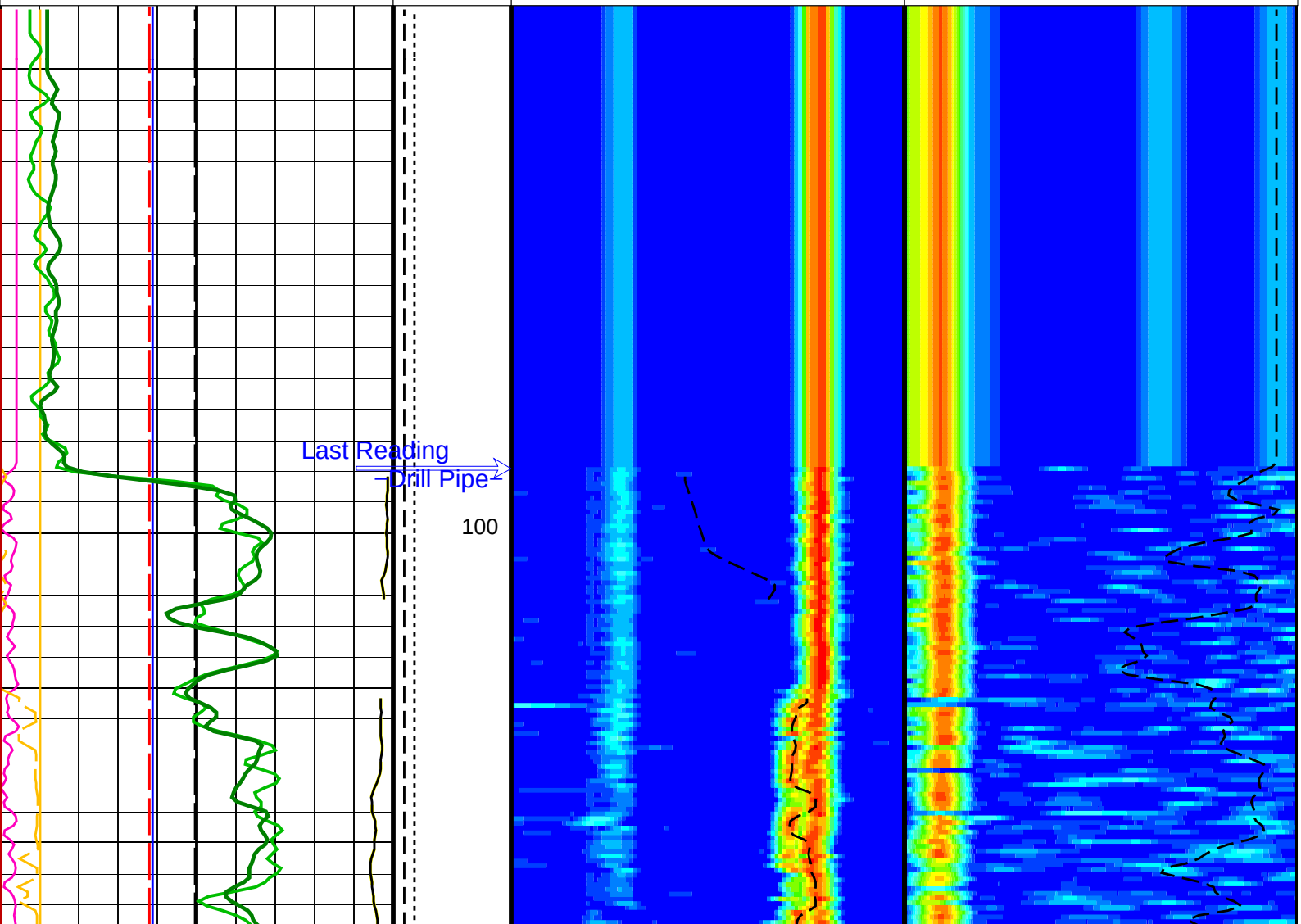
Tension (TENS) (LBF)
10000 0

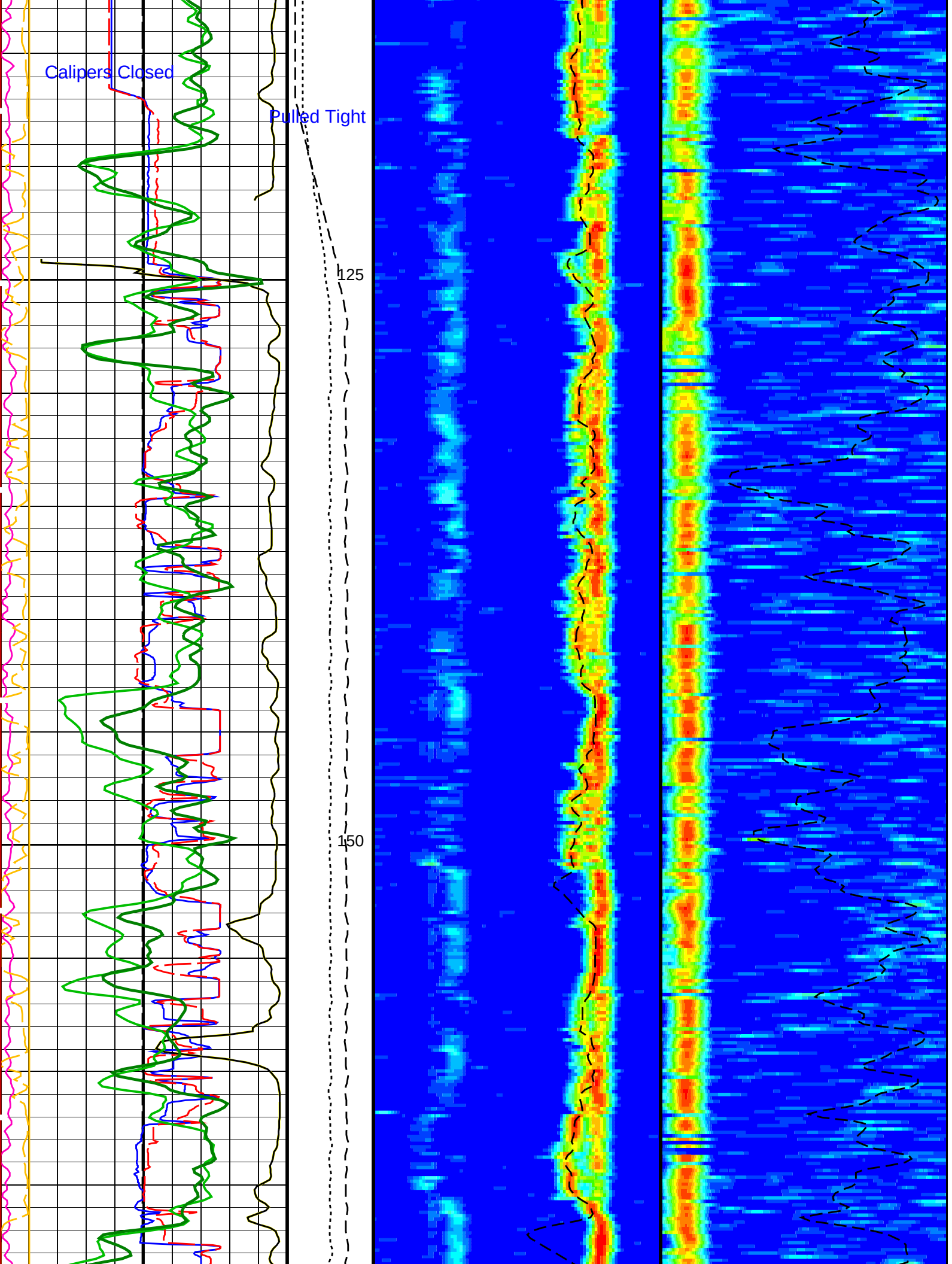
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

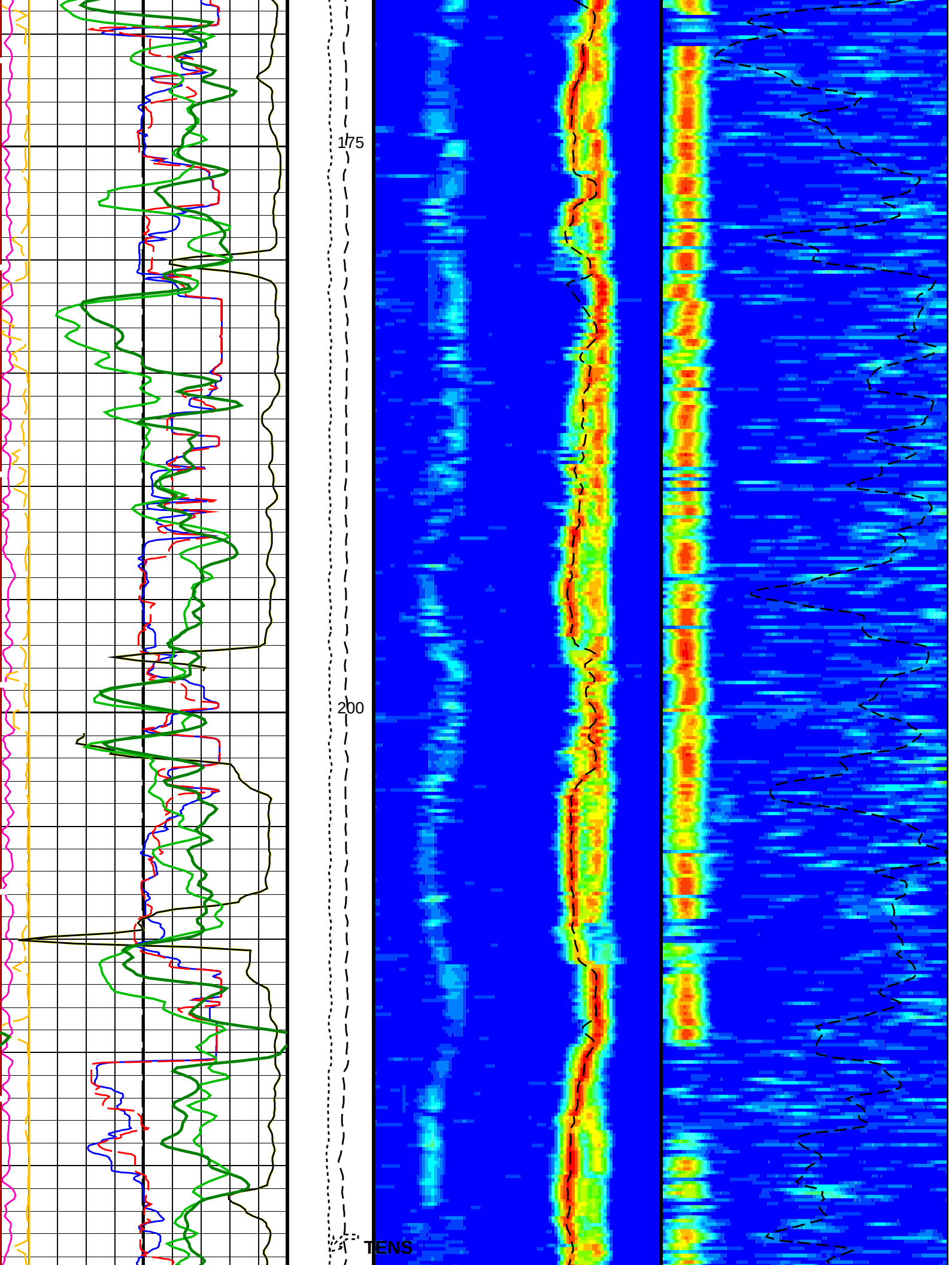
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

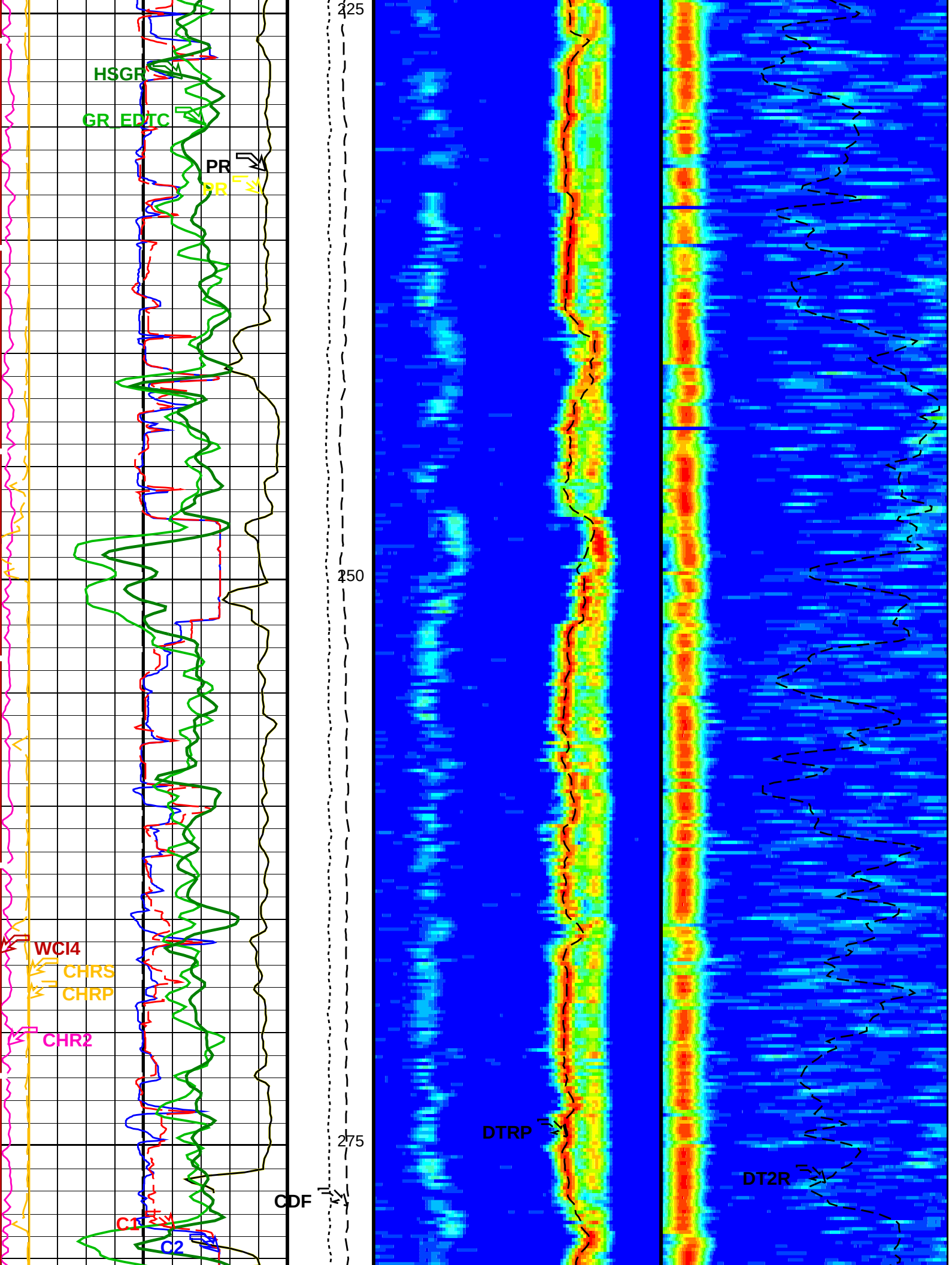
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

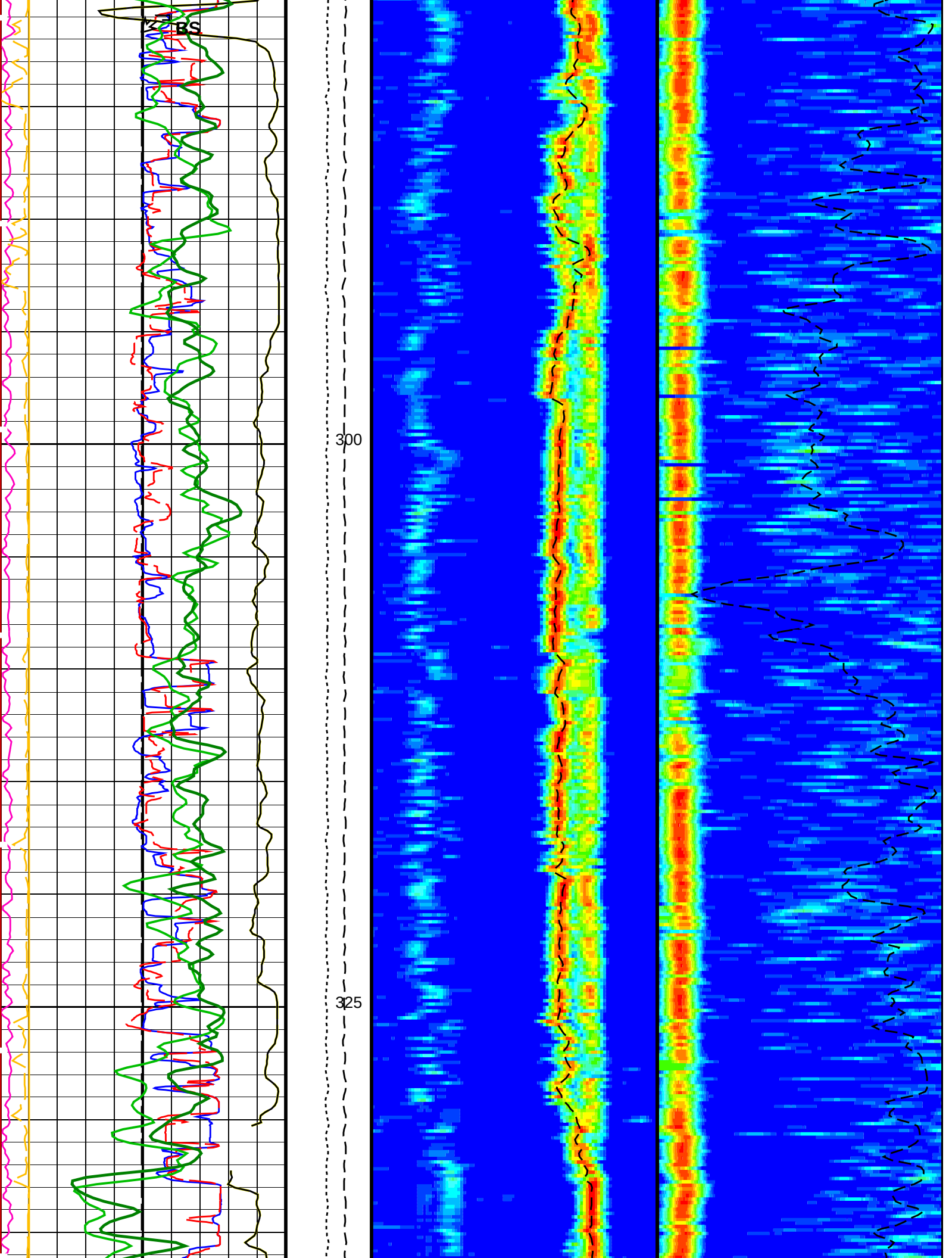
Delta−T Shear / RA − Upper Dipole (DT2R)
75 (US/F) 1200

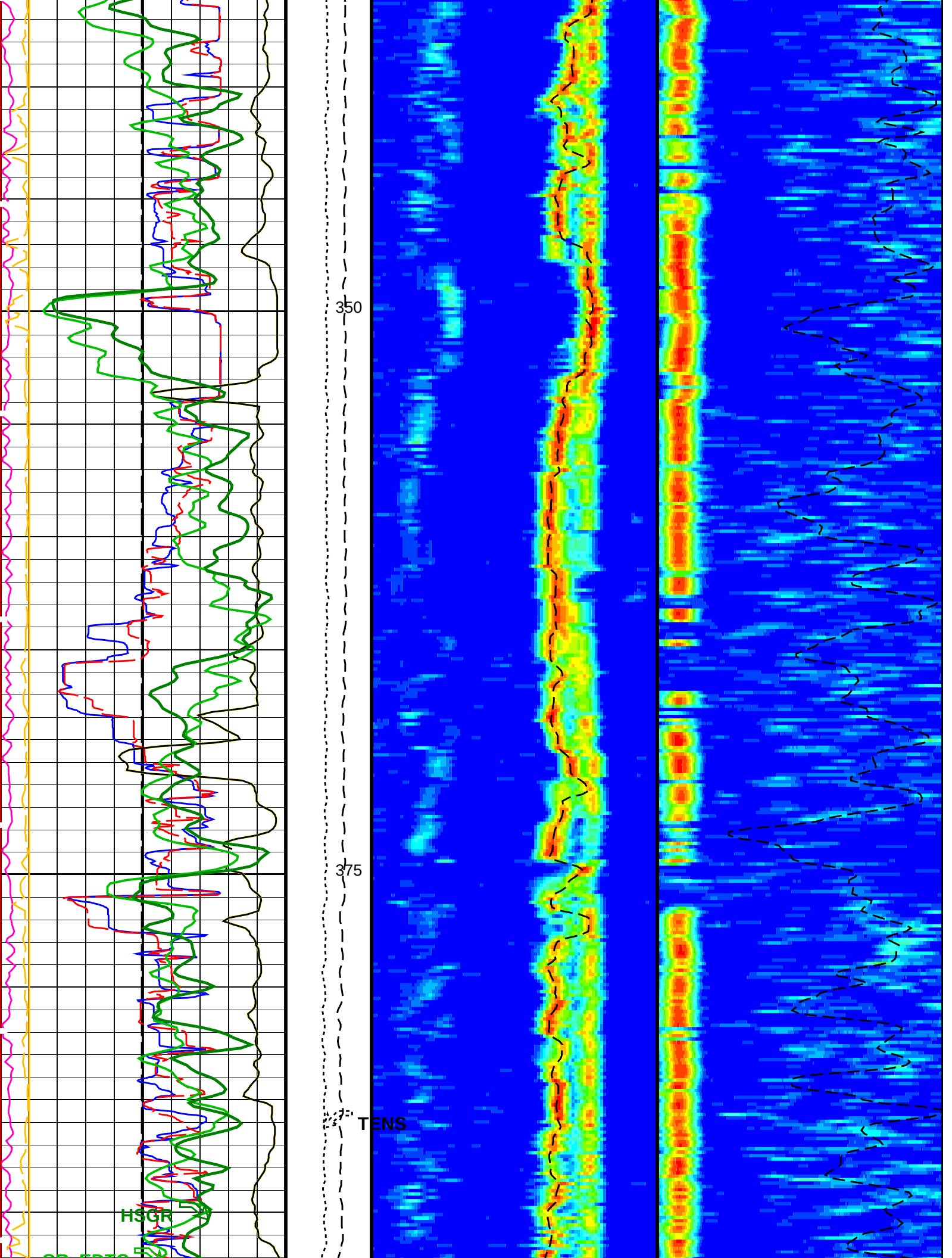


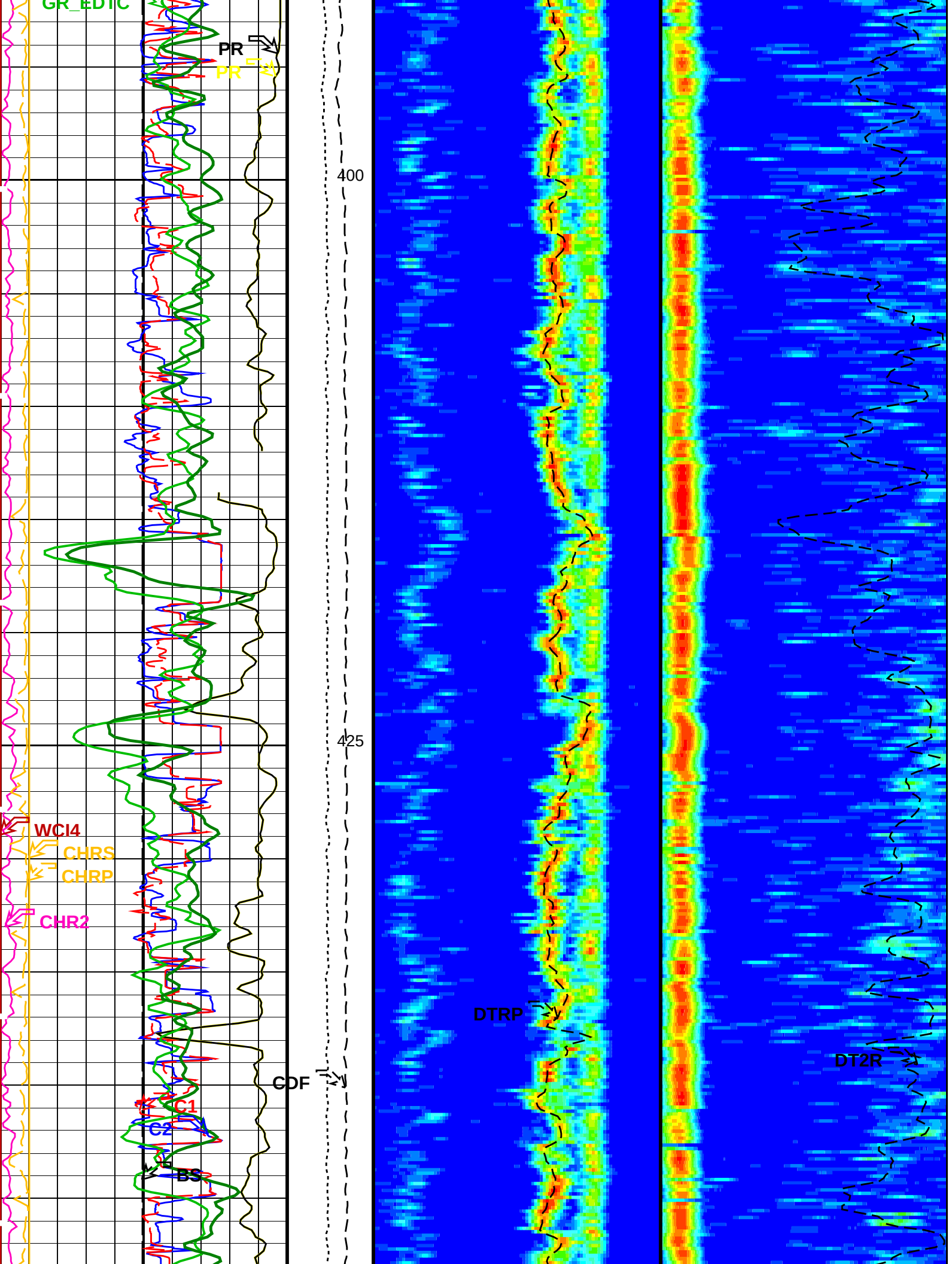

Calipers Closed
Pulled Tight
125
150

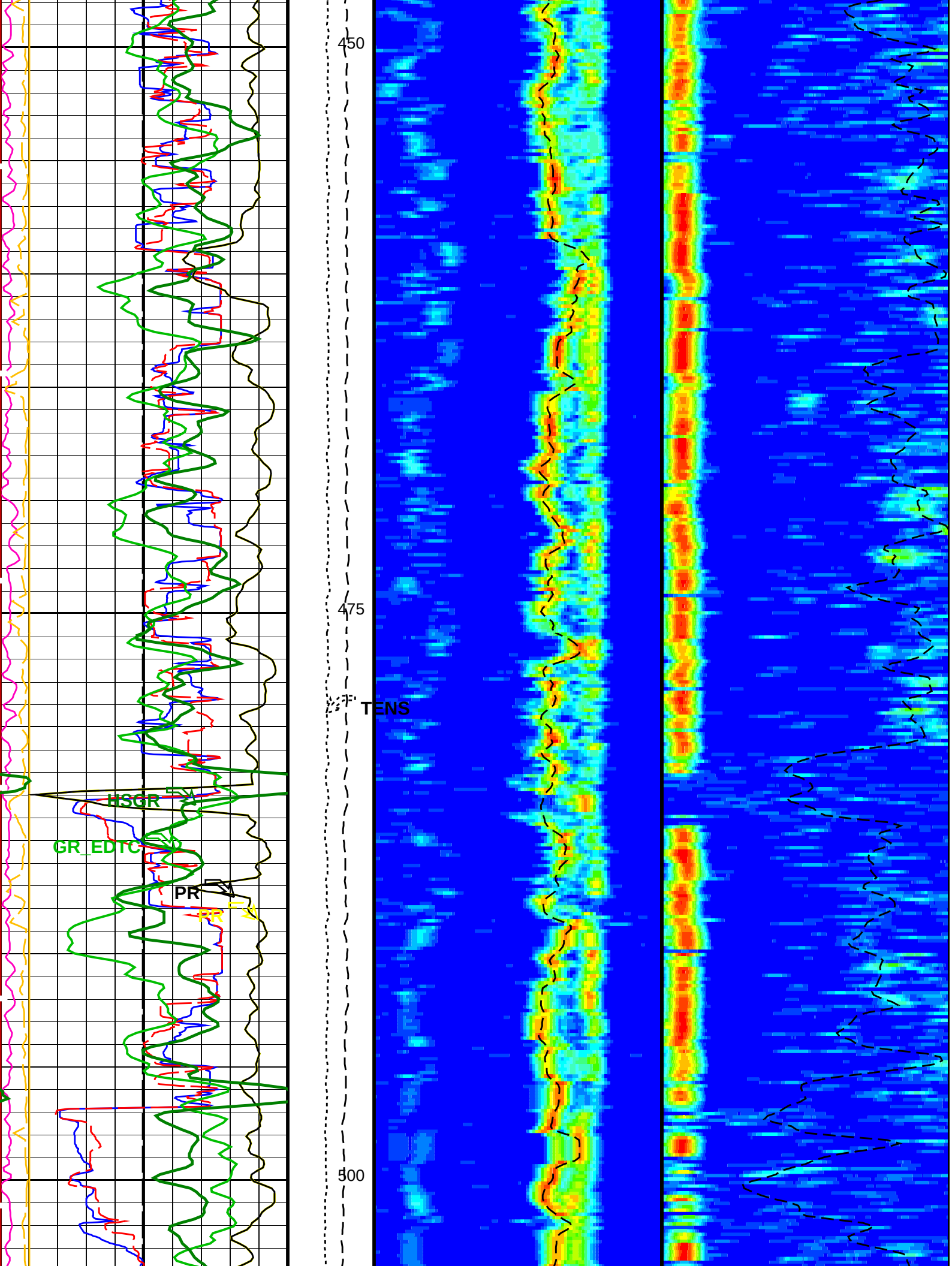

175
200
TENS

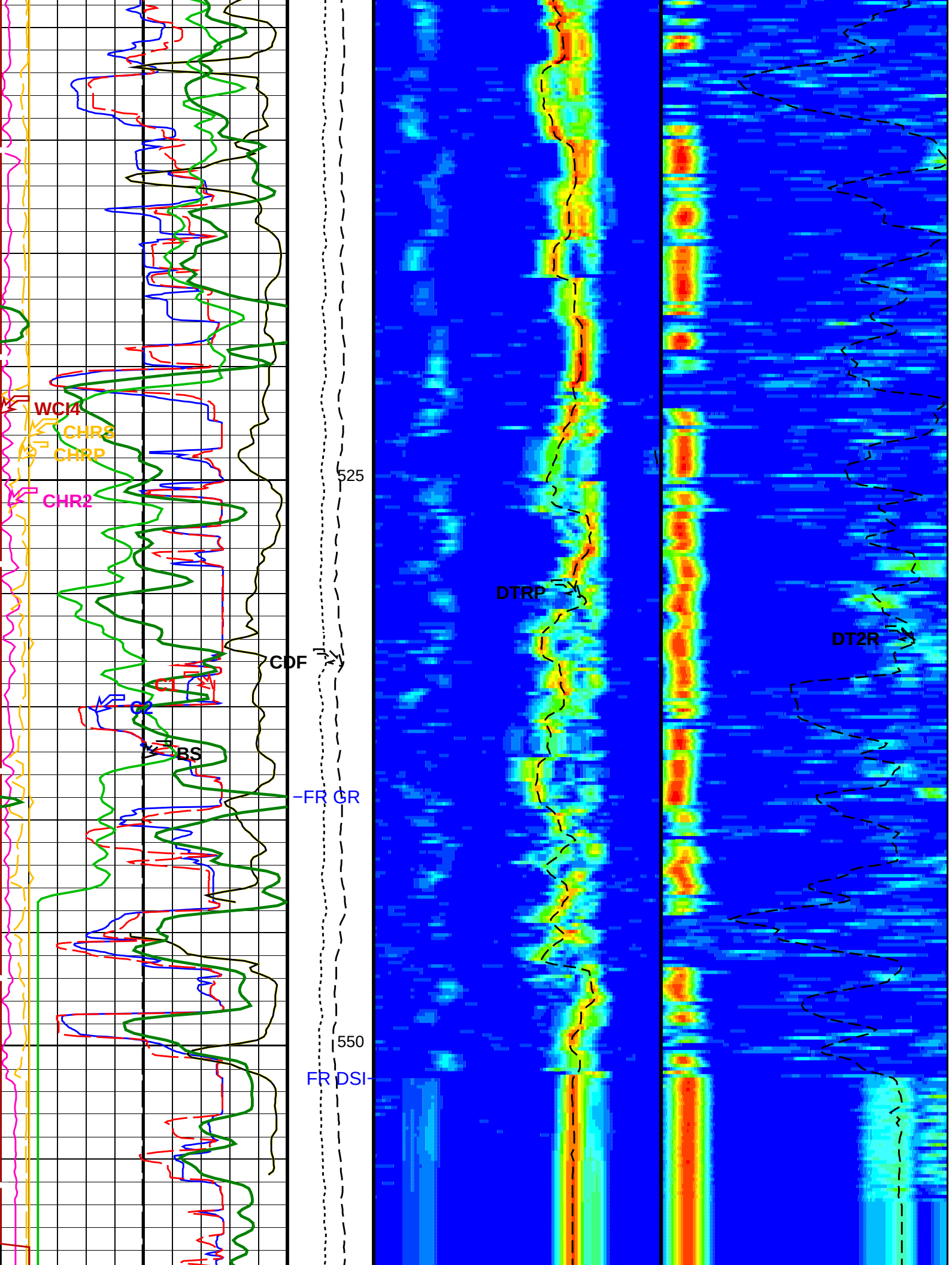

HSGR
GR_EDTC
PR
DR
WCI4
CHRS
CHRP
CHR2
C1
C2
CDF
DTRP
DT2R
225
250
275

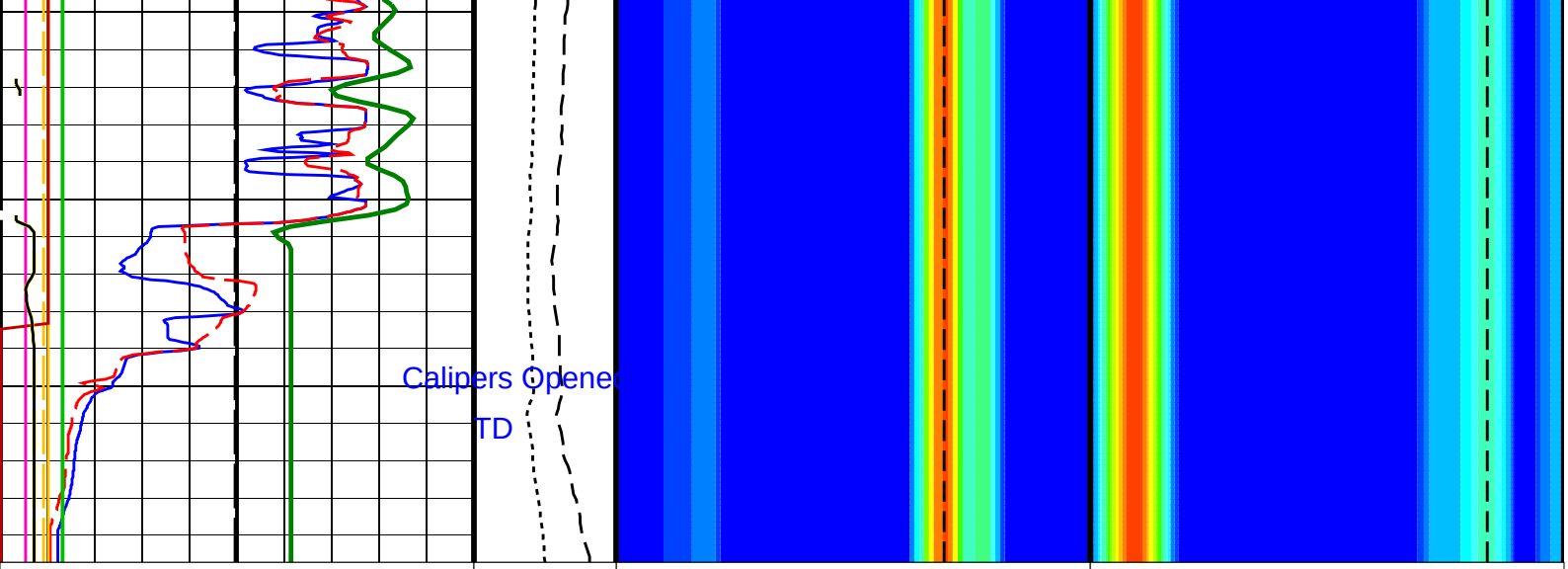

BS
300
325


350
375
TENS
HSGR


GR_EDTC
PR
PR
400
425
WCI4
CHRS
CHRP
CHR2
DTRP
DT2R
CDF
C1
C2
BS


450
475
500
TENS
HSGR
GR_EDTC
PR
RR


WCI4
CHRS
CHRP
CHR2
525
DTRP
DT2R
CDF
C1
C2
BS
FR GR
550
FR DSI



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Comp / RA − P & S (DTRP) 40 (US/F) 240
Caliper 2 (C2) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 5000 0	Delta−T Shear / RA − P & S (DTRS) 40 (US/F) 240
Caliper 1 (C1) 0 (IN) 20		Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240
Poisson's Ratio (PR) 0 (−−−−) 0.5		
Poisson's Ratio (PR) 0 (−−−−) 0.5		
Gamma Ray (GR_EDTC) 0 (GAPI) 75		
Peak Coherence / RA − Upper Dipole (CHR2) 0 (−−−−) 10		
Peak Coherence / RA − P & S Comp (CHRP) 0 (−−−−) 10		
Peak Coherence / RA − P & S Shear (CHRS) −1 (−−−−) 9		
Waveform Data Copy Indicator 4 − Monopole P&S (WCI4) 0 (−−−−) 10		
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 75		

Delta−T Shear / RA − Upper Dipole (DT2R) 75 (US/F) 1200	
Min Amplitude Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) 75 (US/F) 1200	
	Main Log
	Sea Floor Depth Reference

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**	**125**	**US/F**
COUL	**Label Slowness Upper Limit − Monopole P&S Compressional**	**195**	**US/F**
DDE2	**Digitizing Delay 2**	**0**	**US**
DDE4	**Digitizing Delay 4**	**0**	**US**
DDEX	**Digitizing Delay X**	**0**	**US**
DLCS	**Label Compressional Source − Dipole Shear**	**USE**	
DSHL	**Label Slowness Lower Limit − Dipole Shear**	**200**	**US/F**
DSHU	**Label Slowness Upper Limit − Dipole Shear**	**1200**	**US/F**
DSI2	**Digitizer Sample Interval 2**	**40**	**US**
DSI4	**Digitizer Sample Interval 4**	**10**	**US**
DSIX	**Digitizer Sample Interval X**	**40**	**US**
DTCS	**Compressional Delta−T Source for DTCO Channel**	**PS_COMP**	
DTF	**Delta−T Fluid**	**195**	**US/F**
DTSS	**Shear Delta−T Source for DTSM Channel**	**LOWER_DIPOLE**	
DWC2	**Digitizer Word Count 2**	**512**	
DWC4	**Digitizer Word Count 4**	**512**	
DWCX	**Digitizer Word Count X**	**512**	
FILG	**Label Fill Gap Control − Monopole P&S**	**COMP**	
GCSE	**Generalized Caliper Selection**	**BS**	
LFC	**Label Formation Character − Monopole P&S**	**COMP_FIRST**	
MCS	**Mean Casing Slowness**	**57**	**US/F**
MTXG	**Monopole Transmitter Geometry**	**186**	**IN**
NWI2	**Number Waveform Items 2**	**8**	
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**
SAM2	**DSST Sonic Acquisition Mode 2 − Upper Dipole Mode**	**ODD**	
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**	
SAS2	**STC Sonic Array Status − Upper Dipole**	**255**	
SAS4	**STC Sonic Array Status − Monopole P&S**	**255**	
SBO2	**STC Search Band Offset − Upper Dipole**	**3000**	**US**
SBO4	**STC Search Band Offset − Monopole P&S**	**500**	**US**
SBR4	**STC Baseline Removal − Monopole P&S**	**ON**	
SBW2	**STC Search Bandwidth − Upper Dipole**	**8000**	**US**
SBW4	**STC Search Bandwidth − Monopole P&S**	**2000**	**US**
SFC2	**STC Formation Character − Upper Dipole**	**SELECTABLE**	
SFC4	**STC Formation Character − Monopole P&S**	**SELECTABLE**	
SFM2	**STC Filter − Upper Dipole**	**B1−2K**	
SFM4	**STC Filter − Monopole P&S**	**B3−20K**	
SHLL	**Label Slowness Lower Limit − Monopole P&S Shear**	**235**	**US/F**
SHUL	**Label Slowness Upper Limit − Monopole P&S Shear**	**240**	**US/F**
SLL2	**STC Slowness Lower Limit − Upper Dipole**	**75**	**US/F**
SLL4	**STC Slowness Lower Limit − Monopole P&S**	**40**	**US/F**
SST2	**STC Slowness Step − Upper Dipole**	**4**	**US/F**
SST4	**STC Slowness Step − Monopole P&S**	**2**	**US/F**
SSW2	**STC Source Waveform − Upper Dipole**	**WF_SAM2**	
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**	**1200**	**US/F**
SUL2	**STC Slowness Upper Limit − Upper Dipole**	**1200**	**US/F**
SUL4	**STC Slowness Upper Limit − Monopole P&S**	**240**	**US/F**
SWD2	**STC Slowness Width − Upper Dipole**	**40**	**US/F**
SWD4	**STC Slowness Width − Monopole P&S**	**10**	**US/F**
TBF2	**STC Time for Baseline Fill − Upper Dipole**	**0**	**US**
TBF4	**STC Time for Baseline Fill − Monopole P&S**	**300**	**US**
TLL2	**STC Time Lower Limit − Upper Dipole**	**600**	**US**
TLL4	**STC Time Lower Limit − Monopole P&S**	**150**	**US**
TST2	**STC Time Step − Upper Dipole**	**200**	**US**
TST4	**STC Time Step − Monopole P&S**	**50**	**US**
TUL2	**STC Time Upper Limit − Upper Dipole**	**20200**	**US**
TUL4	**STC Time Upper Limit − Monopole P&S**	**3660**	**US**
TWD2	**STC Time Width − Upper Dipole**	**2000**	**US**
TWD4	**STC Time Width − Monopole P&S**	**1000**	**US**
TWI2	**STC Integration Time Window − Upper Dipole**	**1600**	**US**
TWI4	**STC Integration Time Window − Monopole P&S**	**500**	**US**
TWSX	**Transmitter Waveform Select X**	**0**	
UTXG	**Upper Dipole Transmitter Geometry**	**162**	**IN**
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	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00154179	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.02253	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01219	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	−3678.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 10−Jul−2013 11:16

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:54	PRODUCER	10−Jul−2013 11:12	4252.7 M	3760.9 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_038PUP	FN:55	PRODUCER	10−Jul−2013 11:16		

Company: Lamont Doherty Earth Observatory Well: Expedition 341, Site U1418F

Input DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:54	PRODUCER	10−Jul−2013 11:12	4252.7 M	3760.9 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_038PUP	FN:55	PRODUCER	10−Jul−2013 11:16	574.7 M	82.9 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	75

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)		
0	(−−−−)	10

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

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

Peak Coherence / RA − Lower Dipole (CHR1)
0 (−−−−) 10

Gamma Ray (GR_EDTC)
0 (GAPI) 75

Poisson's Ratio (PR)
0 (−−−−) 0.5

Tension (TENS)
10000 (LBF) 0

Poisson's Ratio (PR)
0 (−−−−) 0.5

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Sea Floor Depth Reference

Main Log

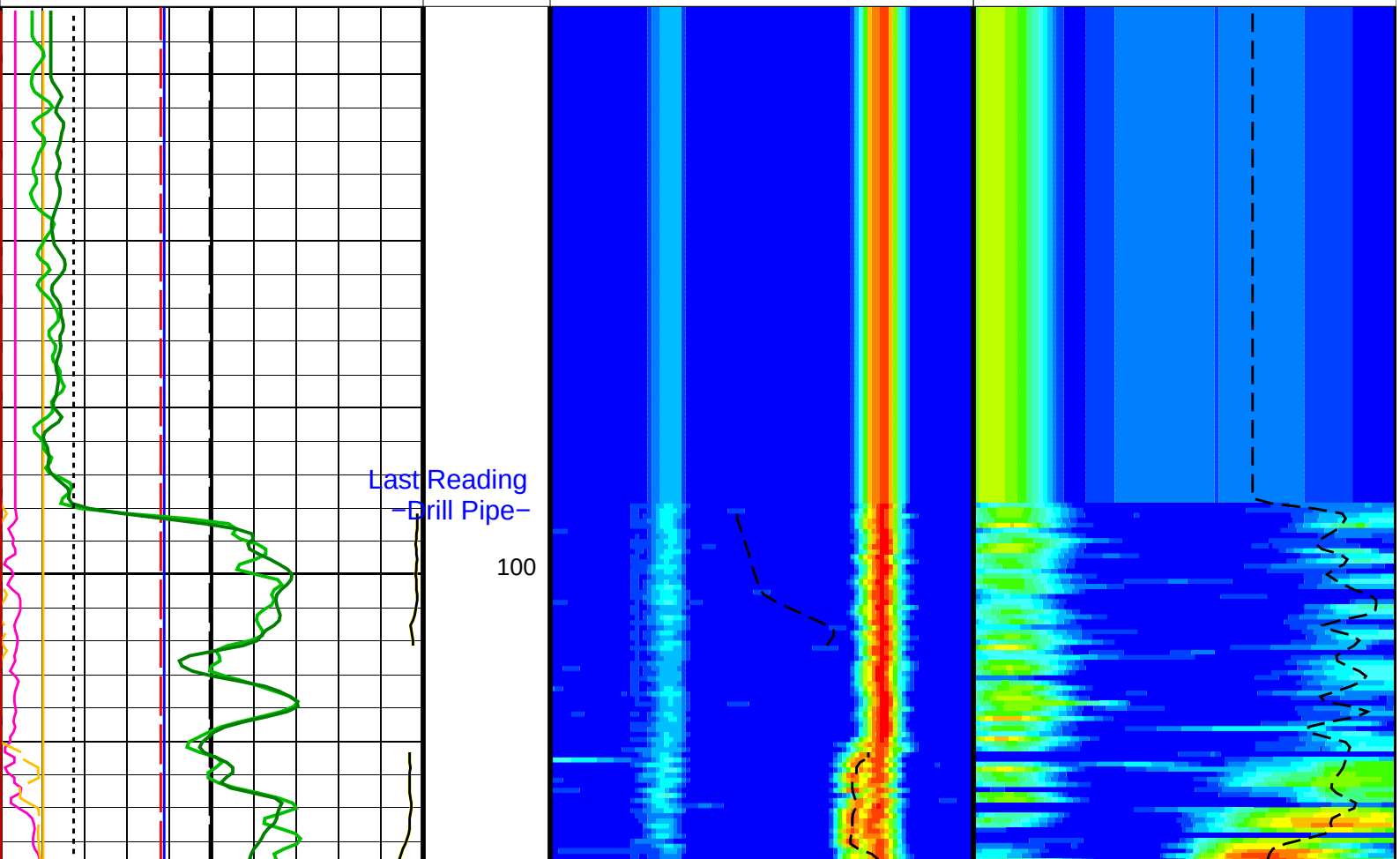
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

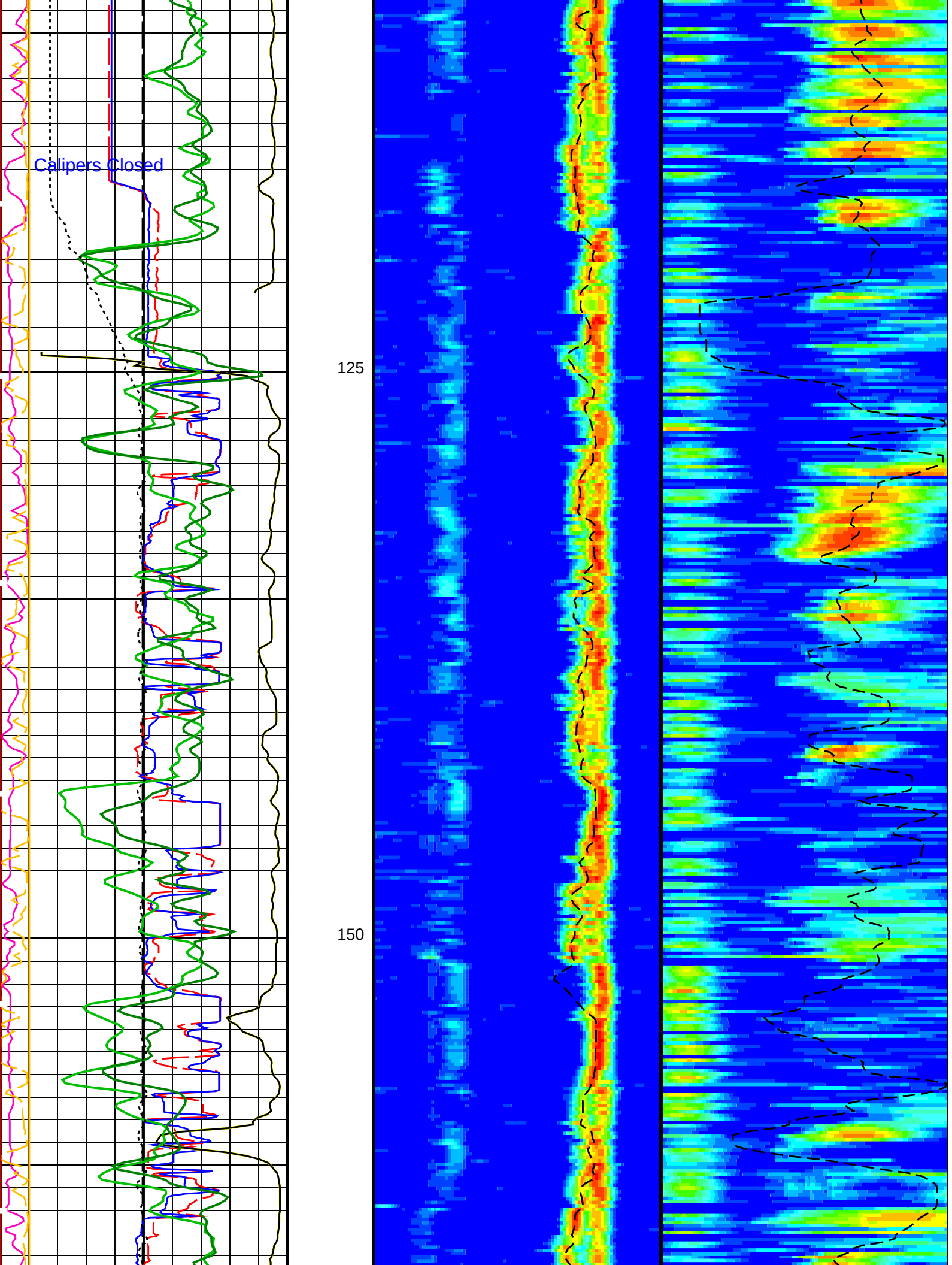
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

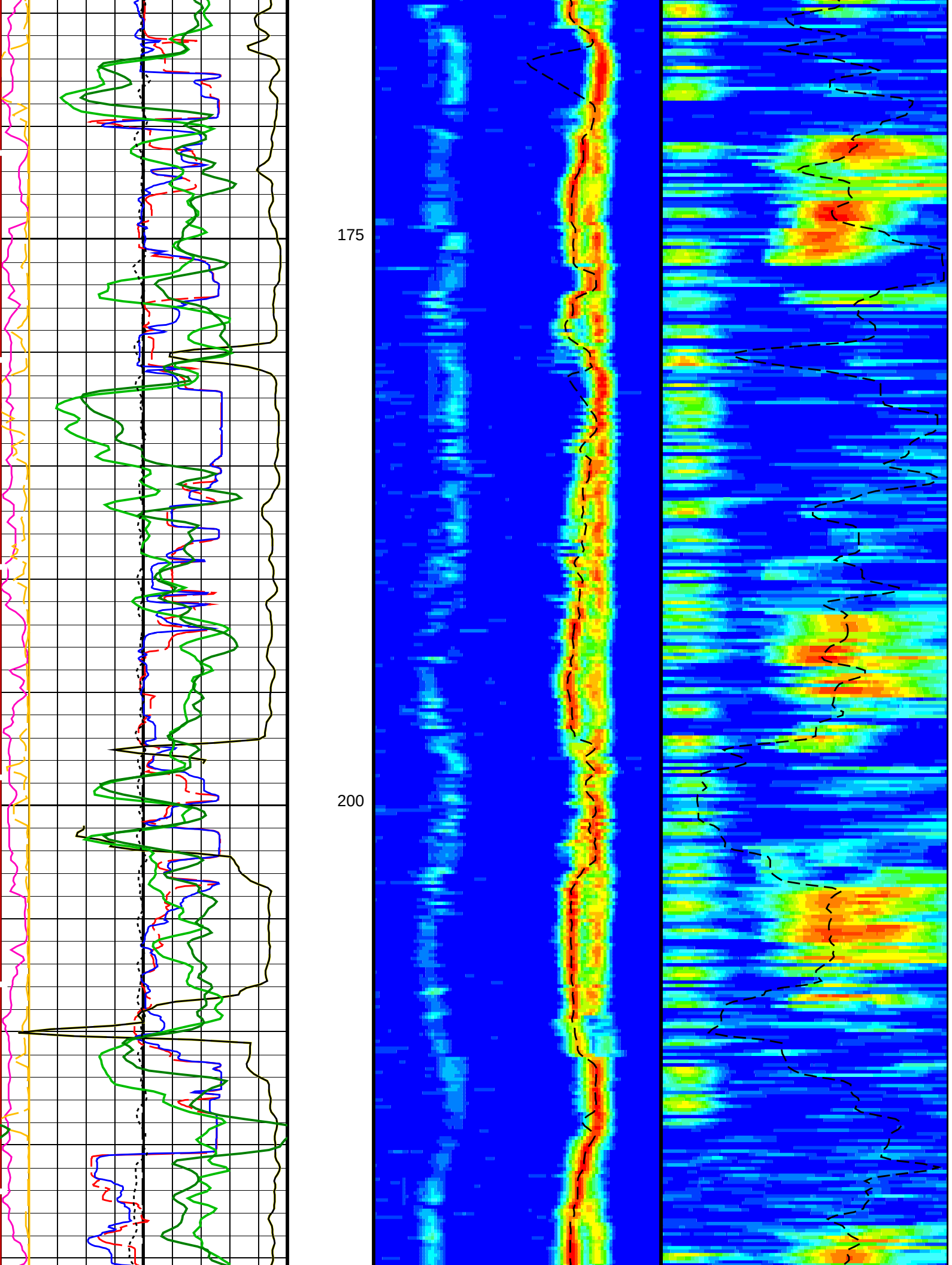
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

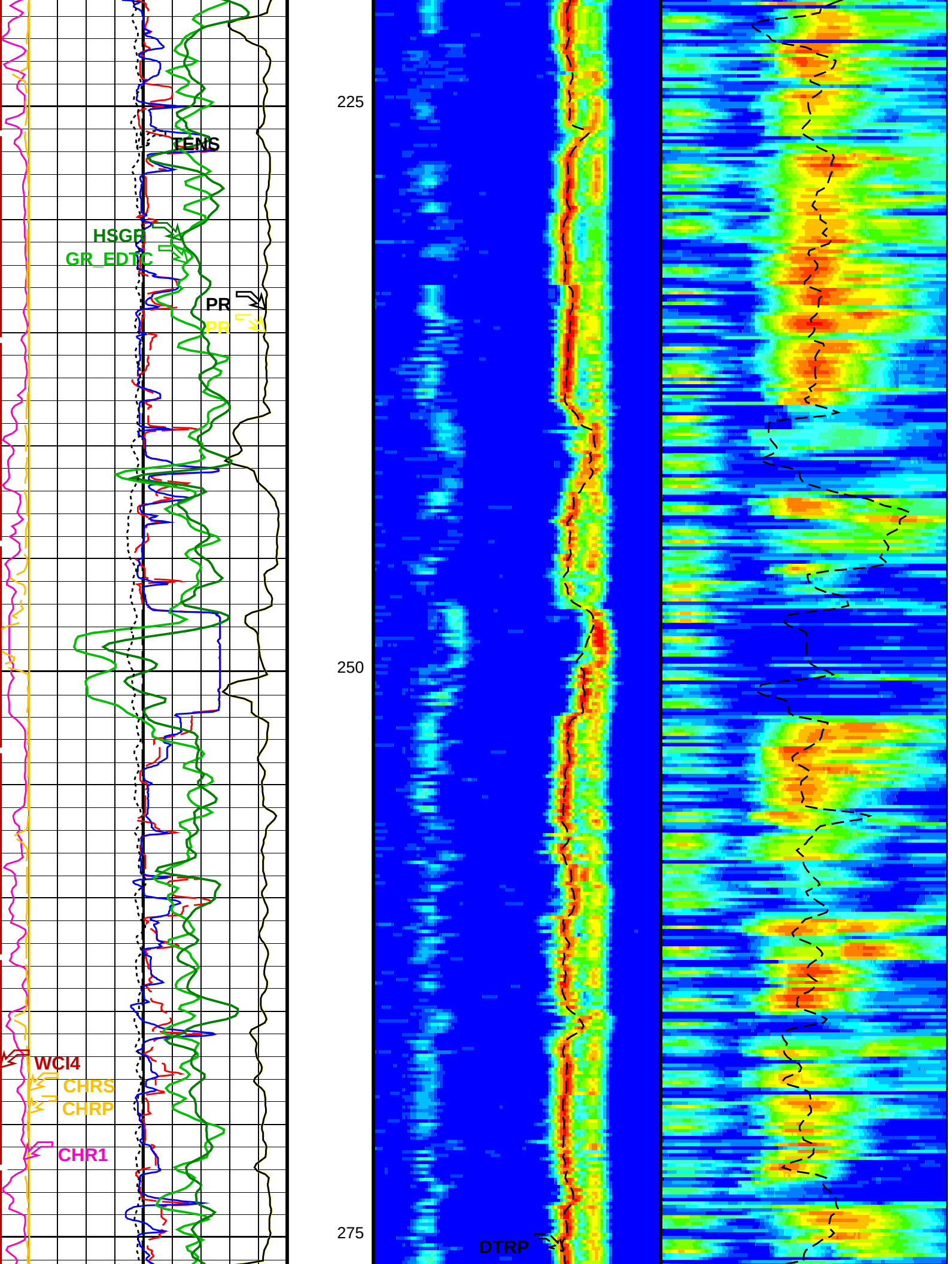
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

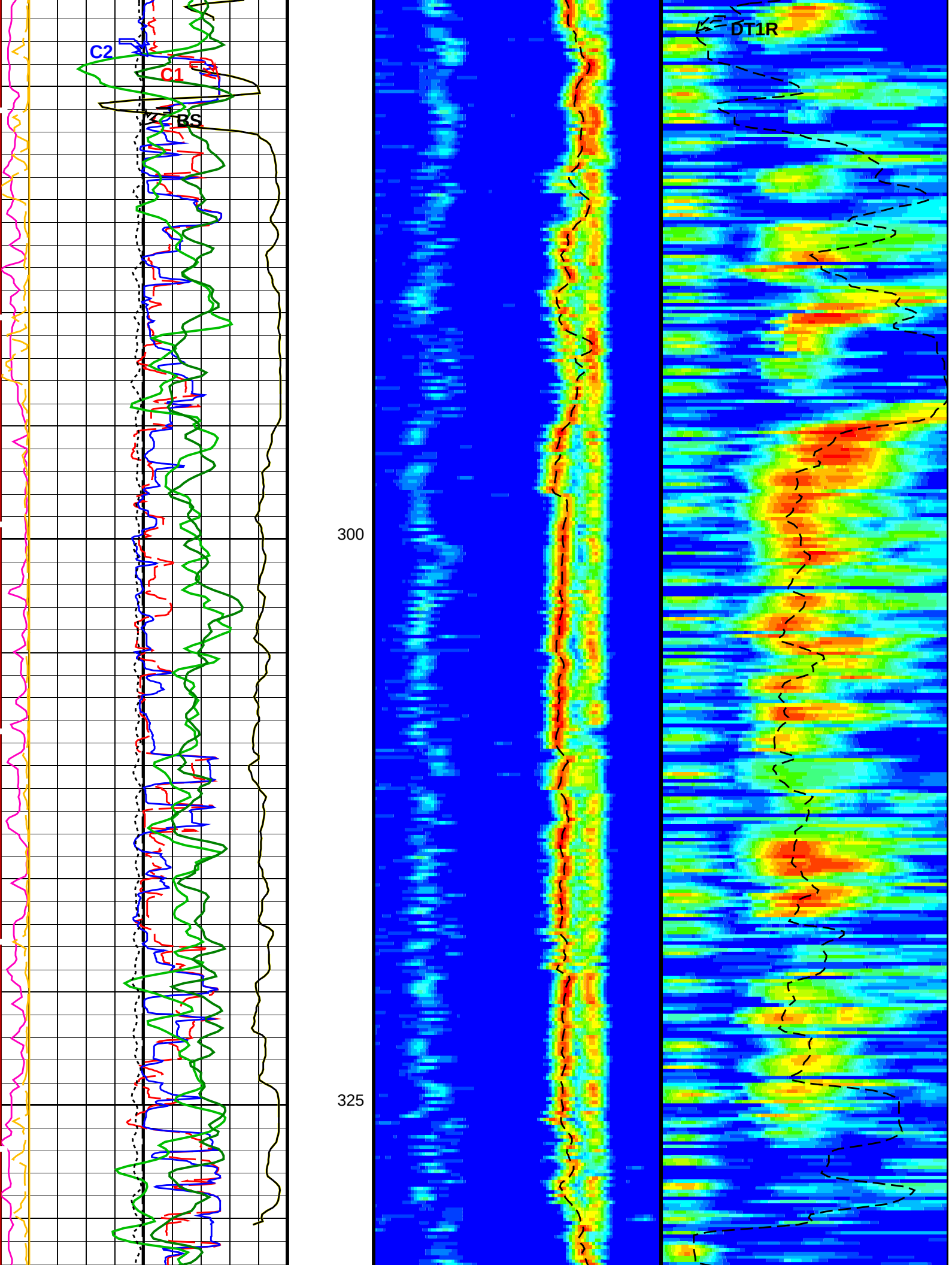
Delta−T Shear / RA − Lower Dipole (DT1R)
75 (US/F) 1200

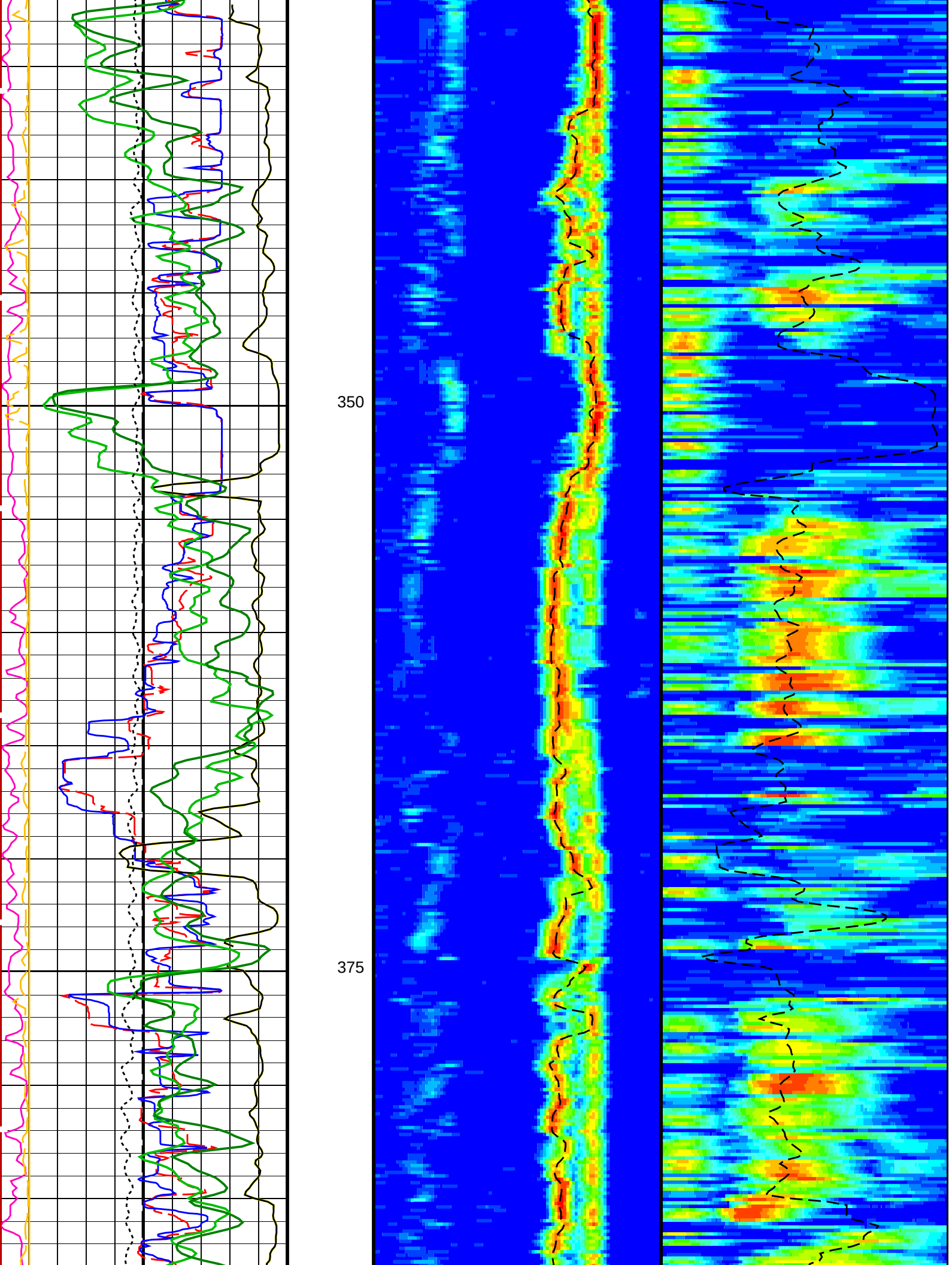


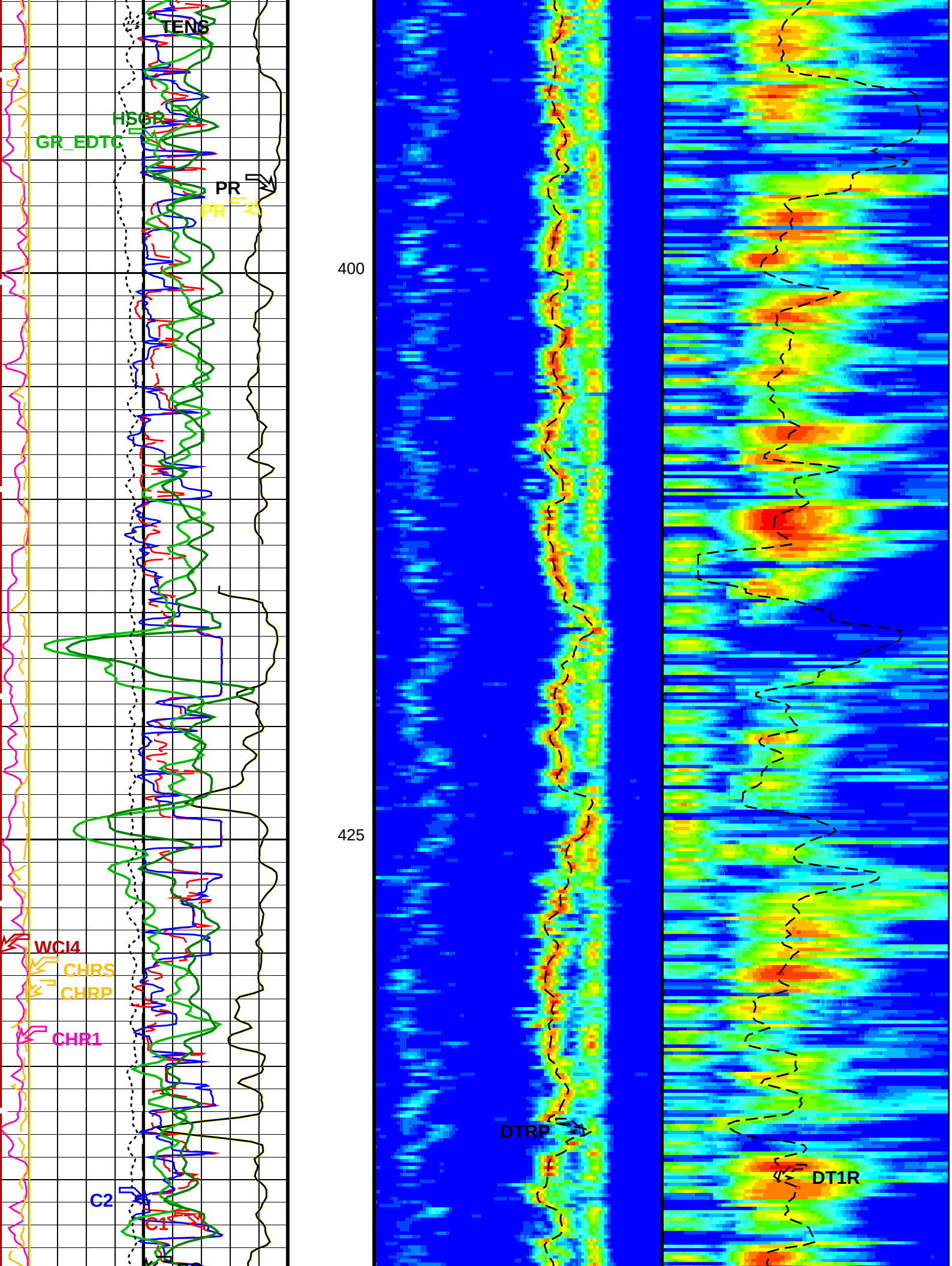

Calipers Closed
125
150

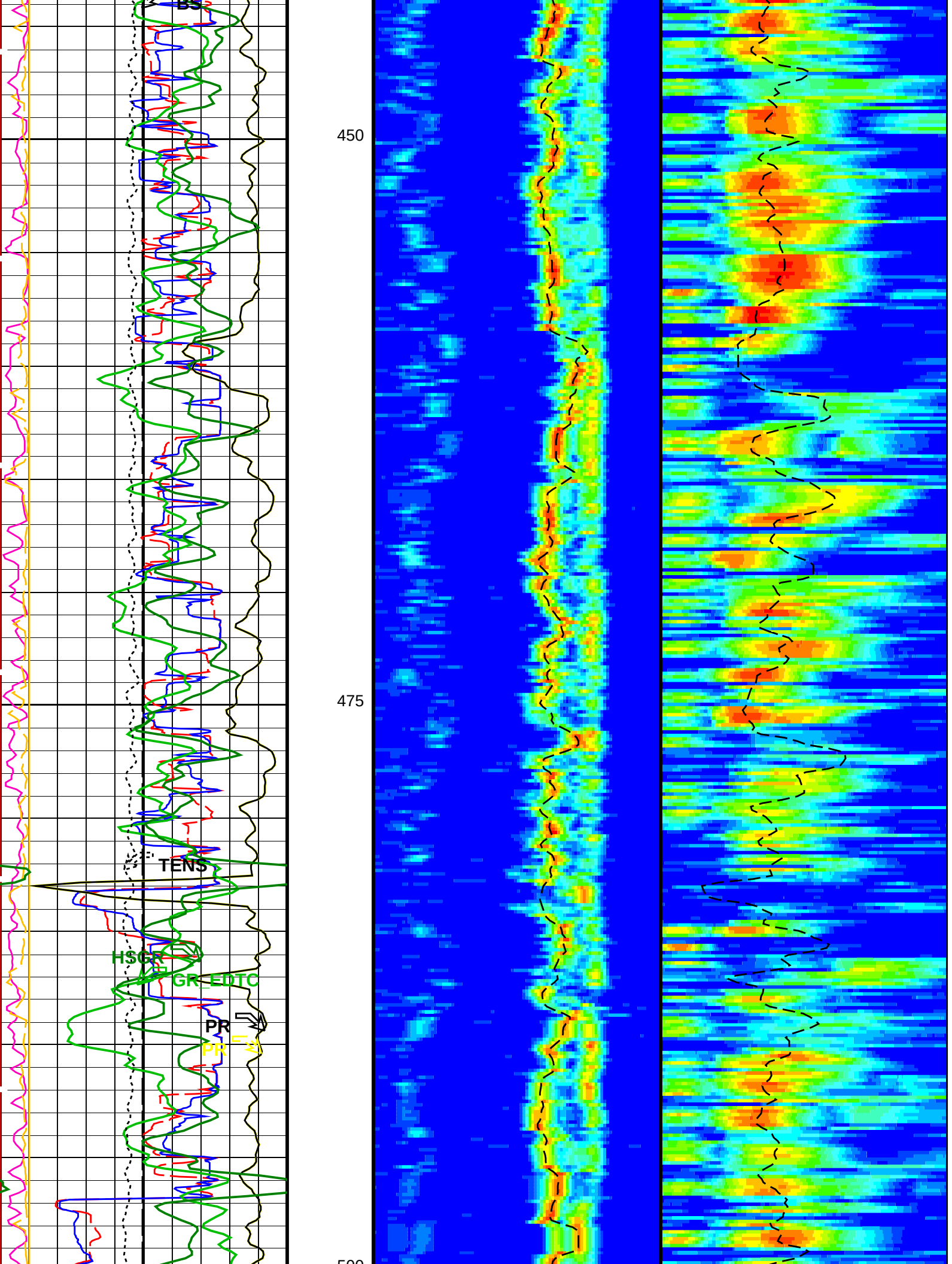

175
200

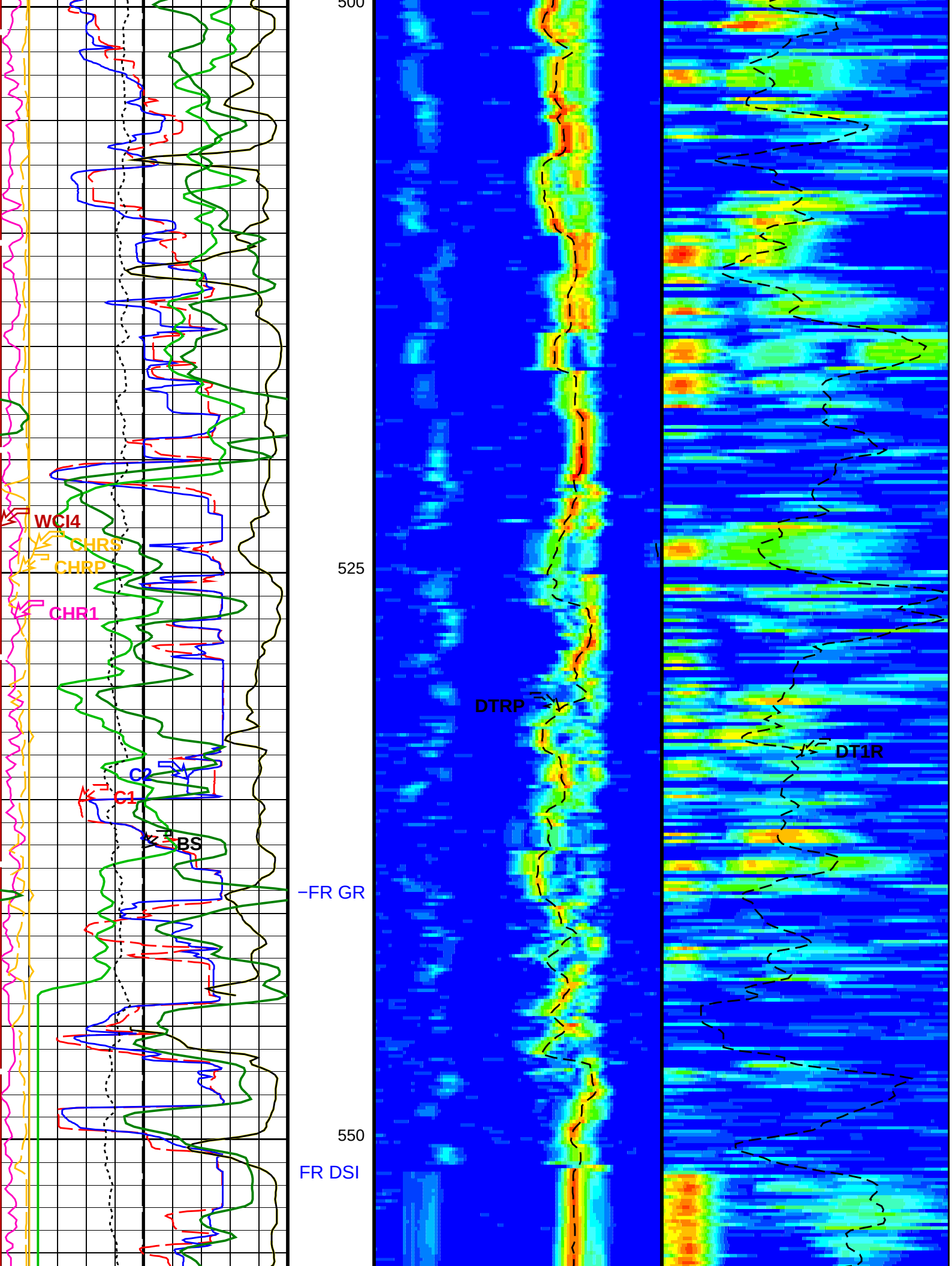

225
250
275
TENS
HSGR
GR_EDTC
PR
PR
WCI4
CHRS
CHRP
CHR1
DTRP

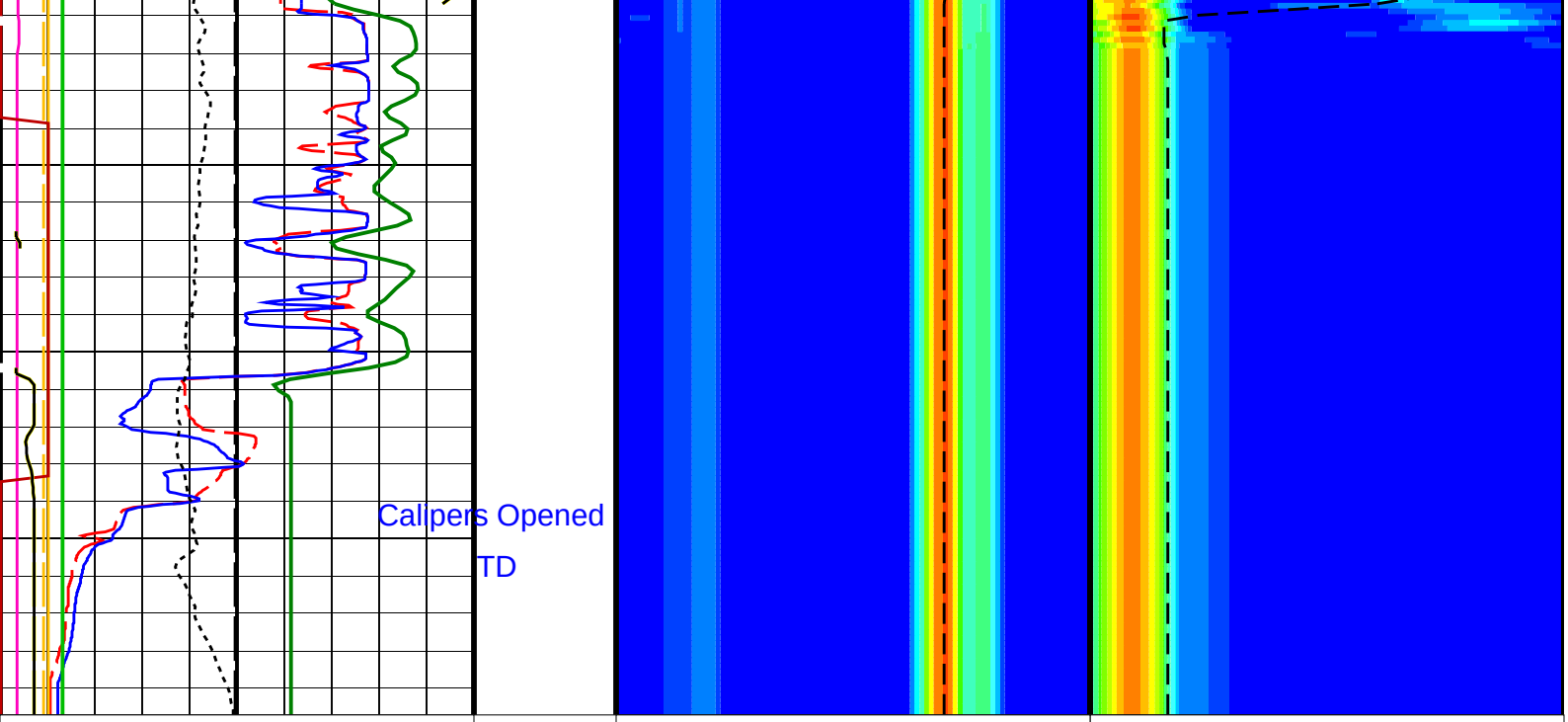

C2
C1
BS
300
325
DT1R


350
375


TEN6
HSGR
GR_EDTC
PR
PR
400
425
WCI4
CHRS
CHRP
CHR1
C2
C1
DTRP
DT1R


BS
TENS
HSGR
GR
EDTC
PR
PR
450
475
500


500
525
550
WCI4
CHRS
CHRP
CHR1
C2
C1
BS
FR GR
FR DSI
DTRP
DT1R



Bit Size (BS)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Poisson's Ratio (PR)
0 (----) 0.5

Tension (TENS)
10000 (LBF) 0

Poisson's Ratio (PR)
0 (----) 0.5

Gamma Ray (GR_EDTC)
0 (GAPI) 75

Peak Coherence / RA − Lower Dipole (CHR1)
0 (----) 10

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

Peak Coherence / RA − P & S Shear (CHRS)
−1 (----) 9

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (----) 10

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 75

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

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

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

Delta−T Shear / RA − Lower Dipole (DT1R)
75 (US/F) 1200

Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

Main Log

Sea Floor Depth Reference

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	125	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	195	US/F
DDE1	Digitizing Delay 1	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1200	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DTF	Delta−T Fluid	195	US/F
DTSS	Shear Delta−T Source for DTSM Channel	LOWER_DIPOLE	
DWC1	Digitizer Word Count 1	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI1	Number Waveform Items 1	8	
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
SAM1	DSST Sonic Acquisition Mode 1 − Lower Dipole Mode	LFD_EVEN	
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	
SAS1	STC Sonic Array Status − Lower Dipole	255	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO1	STC Search Band Offset − Lower Dipole	3000	US
SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW1	STC Search Bandwidth − Lower Dipole	8000	US
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC1	STC Formation Character − Lower Dipole	SELECTABLE	
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM1	STC Filter − Lower Dipole	B.3−1.5K	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	240	US/F
SLL1	STC Slowness Lower Limit − Lower Dipole	75	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST1	STC Slowness Step − Lower Dipole	4	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
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	1200	US/F
SUL1	STC Slowness Upper Limit − Lower Dipole	1200	US/F
SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD1	STC Slowness Width − Lower Dipole	40	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill − Lower Dipole	0	US
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL1	STC Time Lower Limit − Lower Dipole	600	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST1	STC Time Step − Lower Dipole	200	US
TST4	STC Time Step − Monopole P&S	50	US
TUL1	STC Time Upper Limit − Lower Dipole	20440	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD1	STC Time Width − Lower Dipole	2000	US

TWD1	STC Time Width − Lower Dipole	2000	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI1	STC Integration Time Window − Lower Dipole	1600	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	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00154179	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.02253	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01219	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	−3678.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_LOWER_VDL_COLOR **Vertical Scale: 1:200** **Graphics File Created: 10−Jul−2013 11:16**

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_037PUP	FN:54	PRODUCER	10−Jul−2013 11:12	4252.7 M	3760.9 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_038PUP	FN:55	PRODUCER	10−Jul−2013 11:16		

Company: Lamont Doherty Earth Observatory **Well: Expedition 341, Site U1418F**

Input DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:51	PRODUCER	10−Jul−2013 10:49	4253.3 M	3632.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:52	PRODUCER	10−Jul−2013 10:55	575.3 M	−45.9 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray

(HSGR)
0 (GAPI) 75

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (−−−−) 10

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

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

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

Gamma Ray (GR_EDTC)
0 (GAPI) 75

Poisson's Ratio (PR)
0 (−−−−) 0.5

Poisson's Ratio (PR)
0 (−−−−) 0.5

Caliper 1 (C1)
0 (IN) 20

Flipped Downlog

Sea Floor Depth Reference

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

Caliper 2 (C2)
0 (IN) 20

Calibrated Downhole Force (CDF) (LBF)
5000 0

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

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

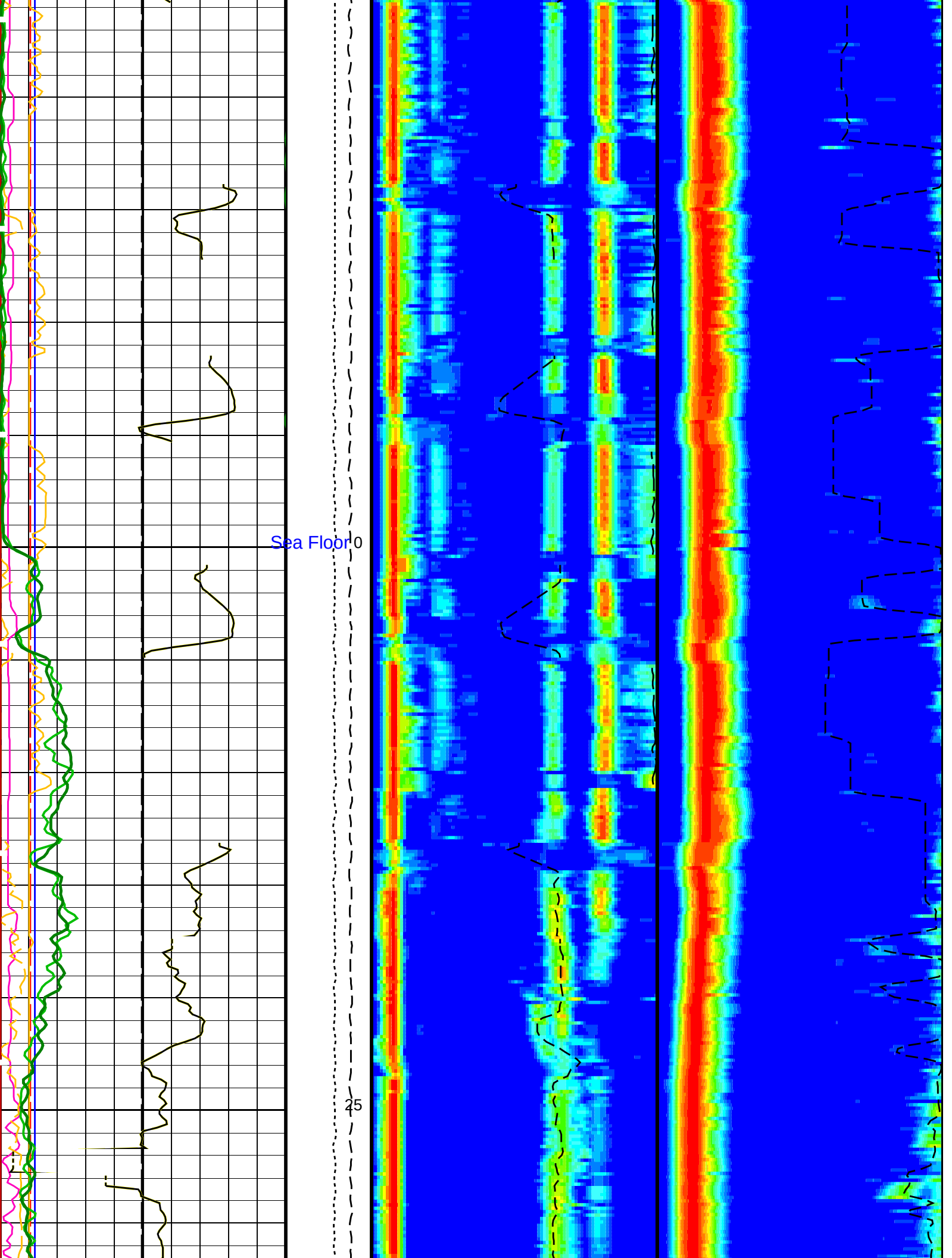
Bit Size (BS)
0 (IN) 20

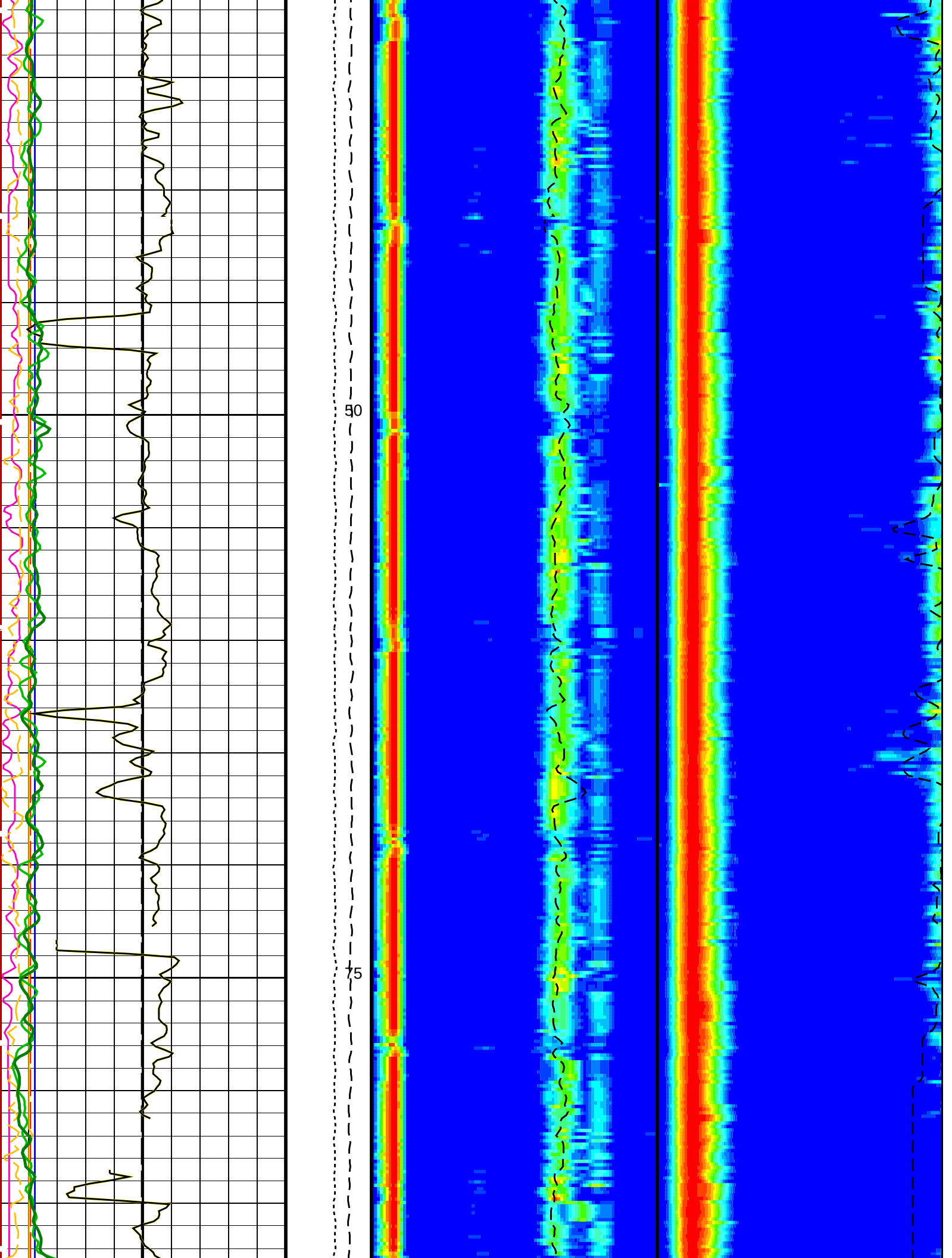
Tension (TENS) (LBF)
10000 0

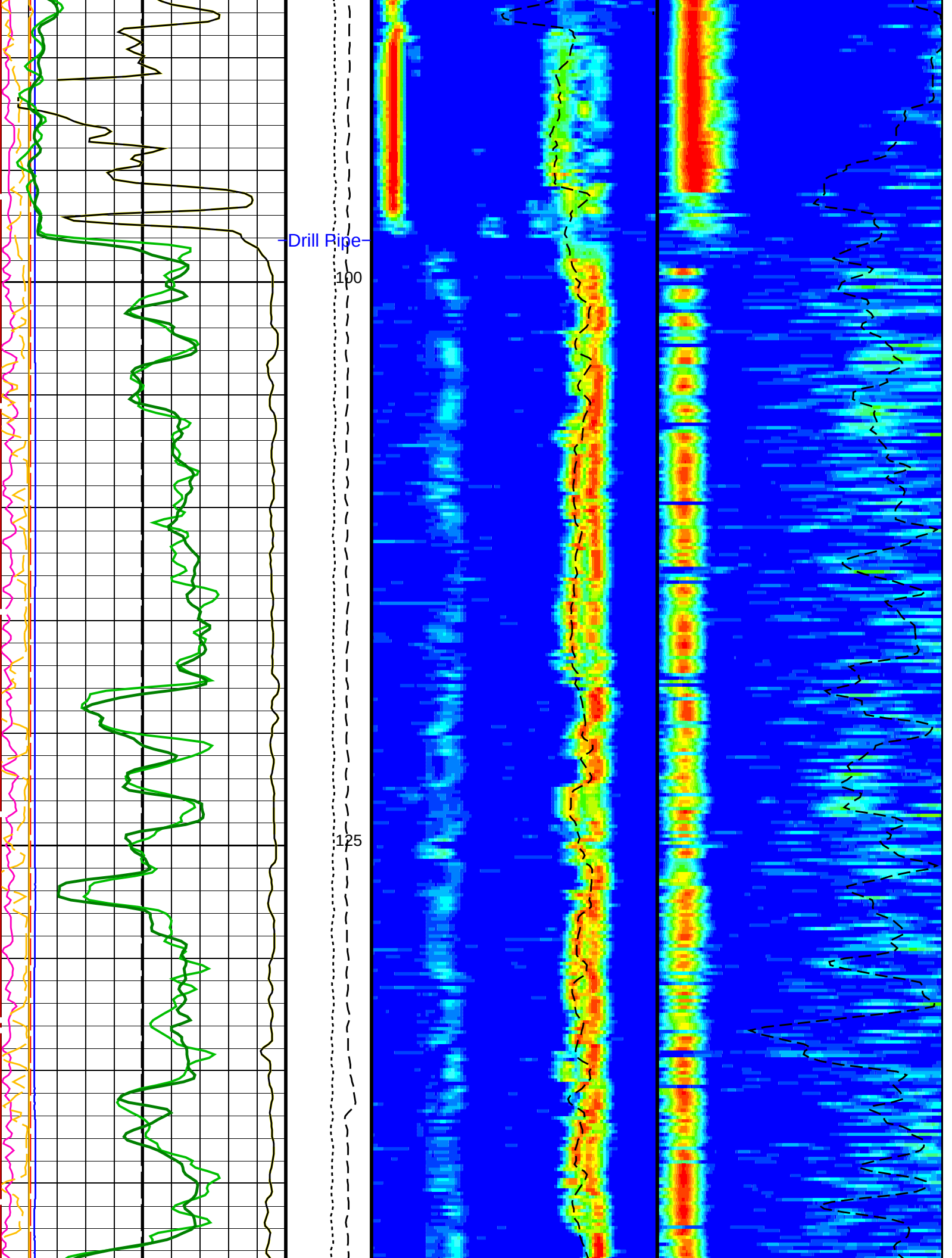
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

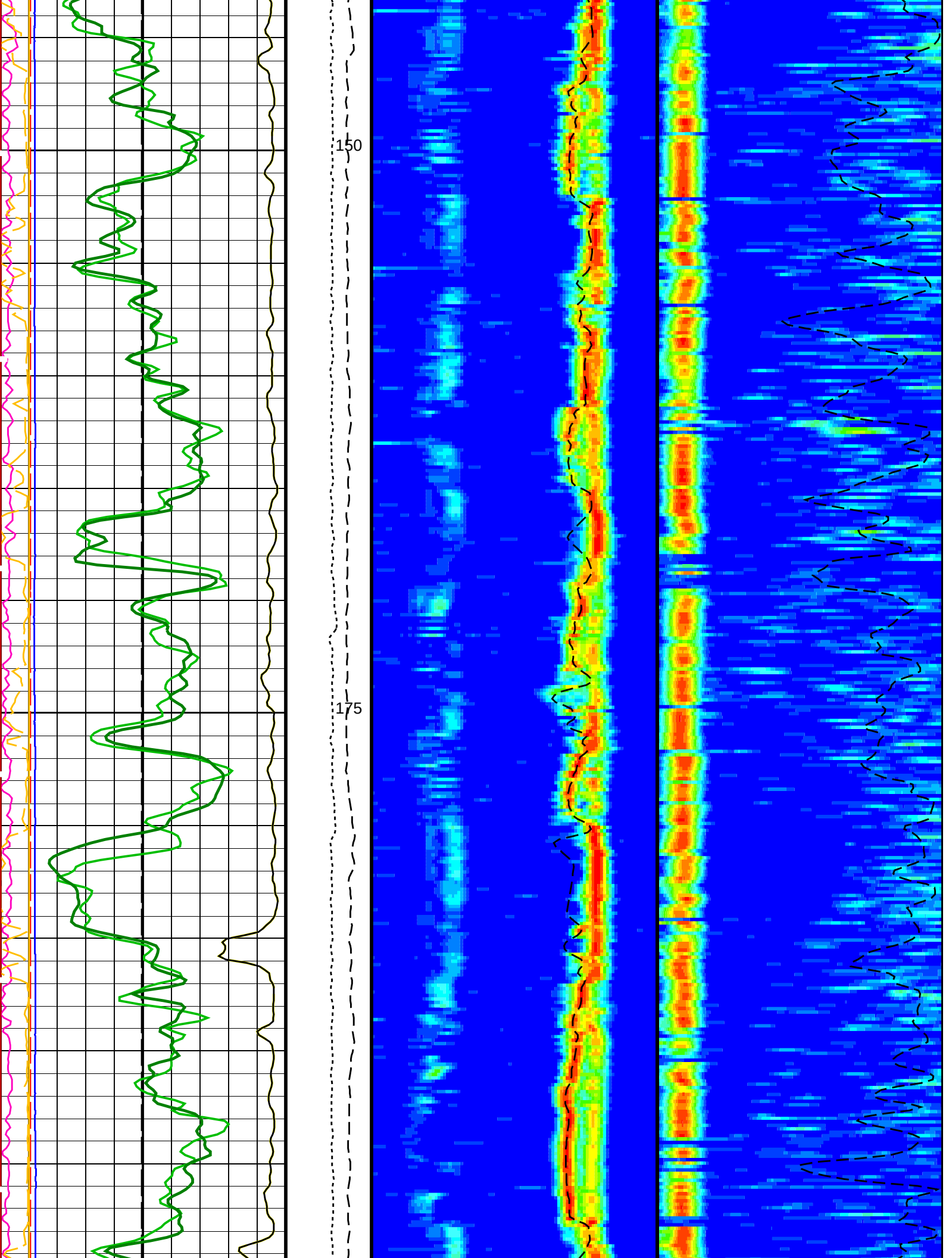
Delta−T Shear / RA − Upper Dipole (DT2R)
75 (US/F) 1200

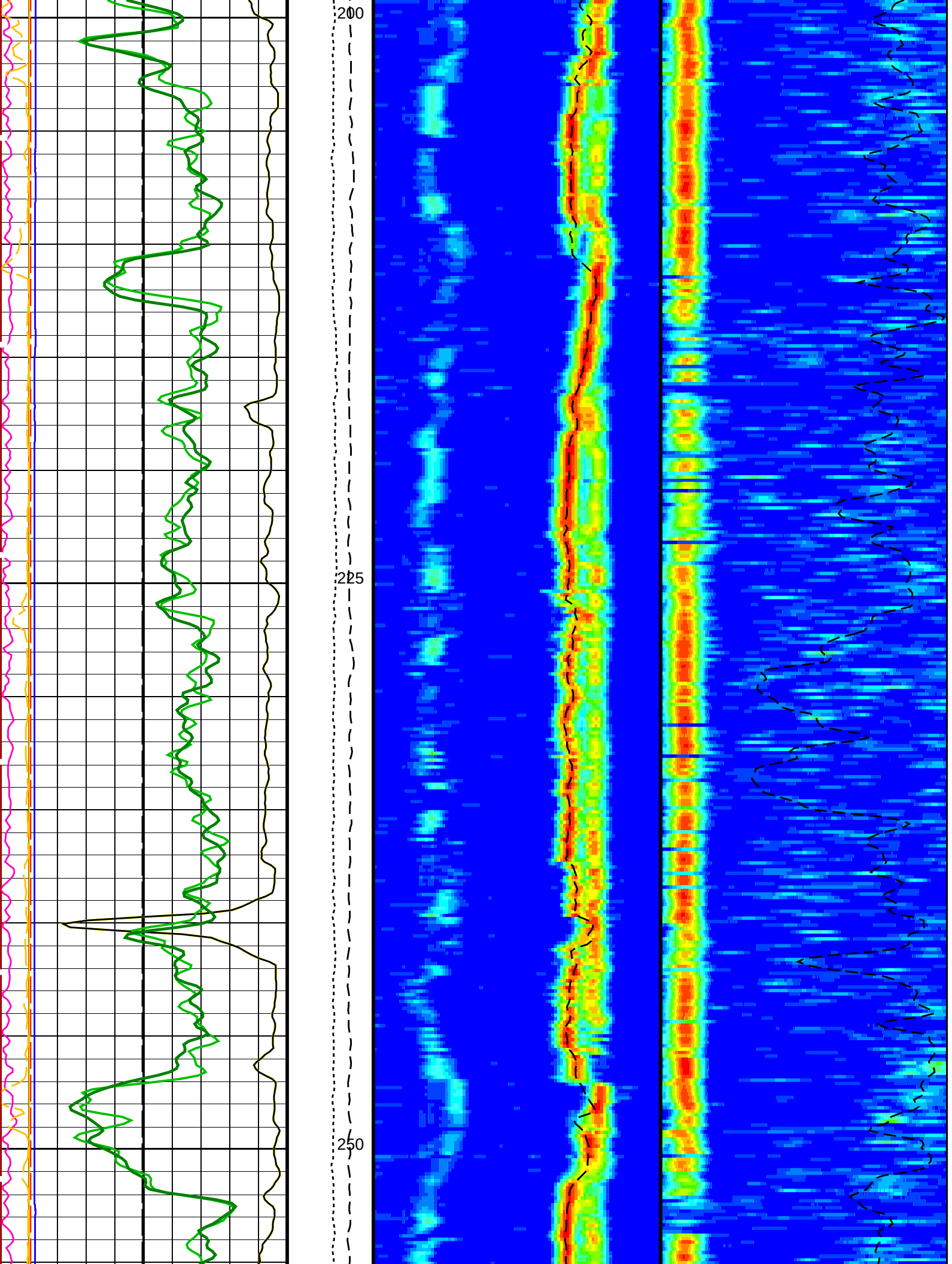
−25

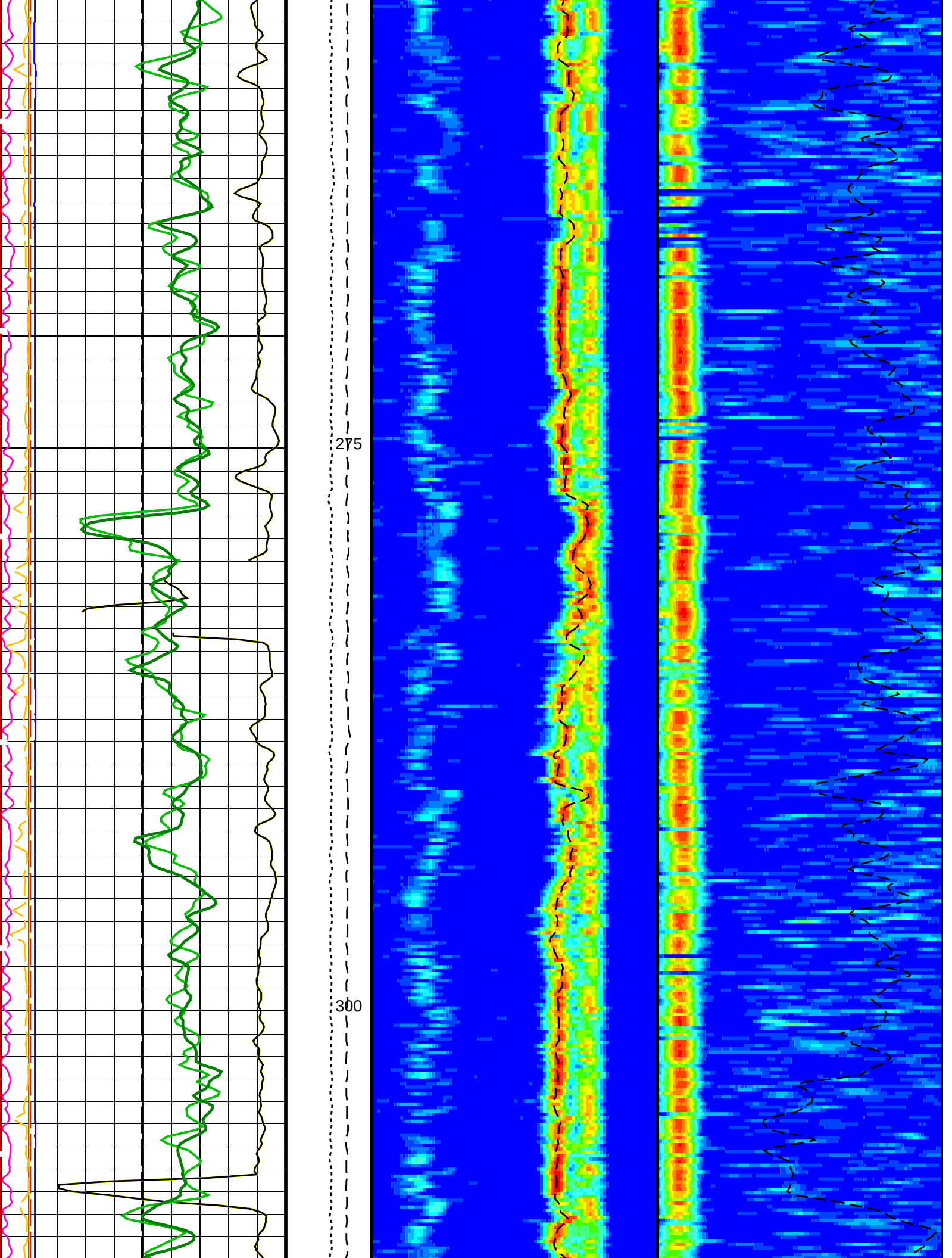

Sea Floor
0
25

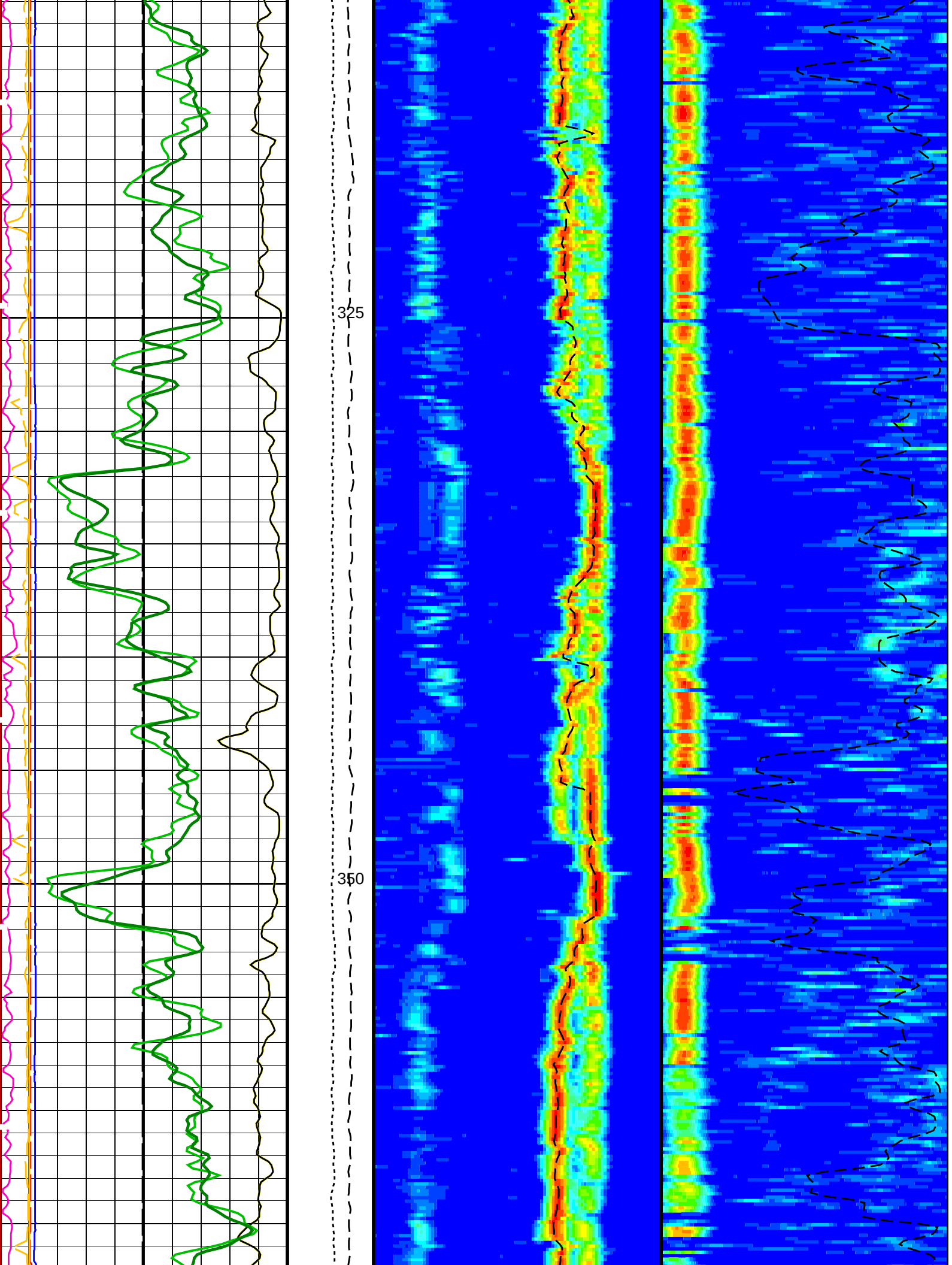

50
75

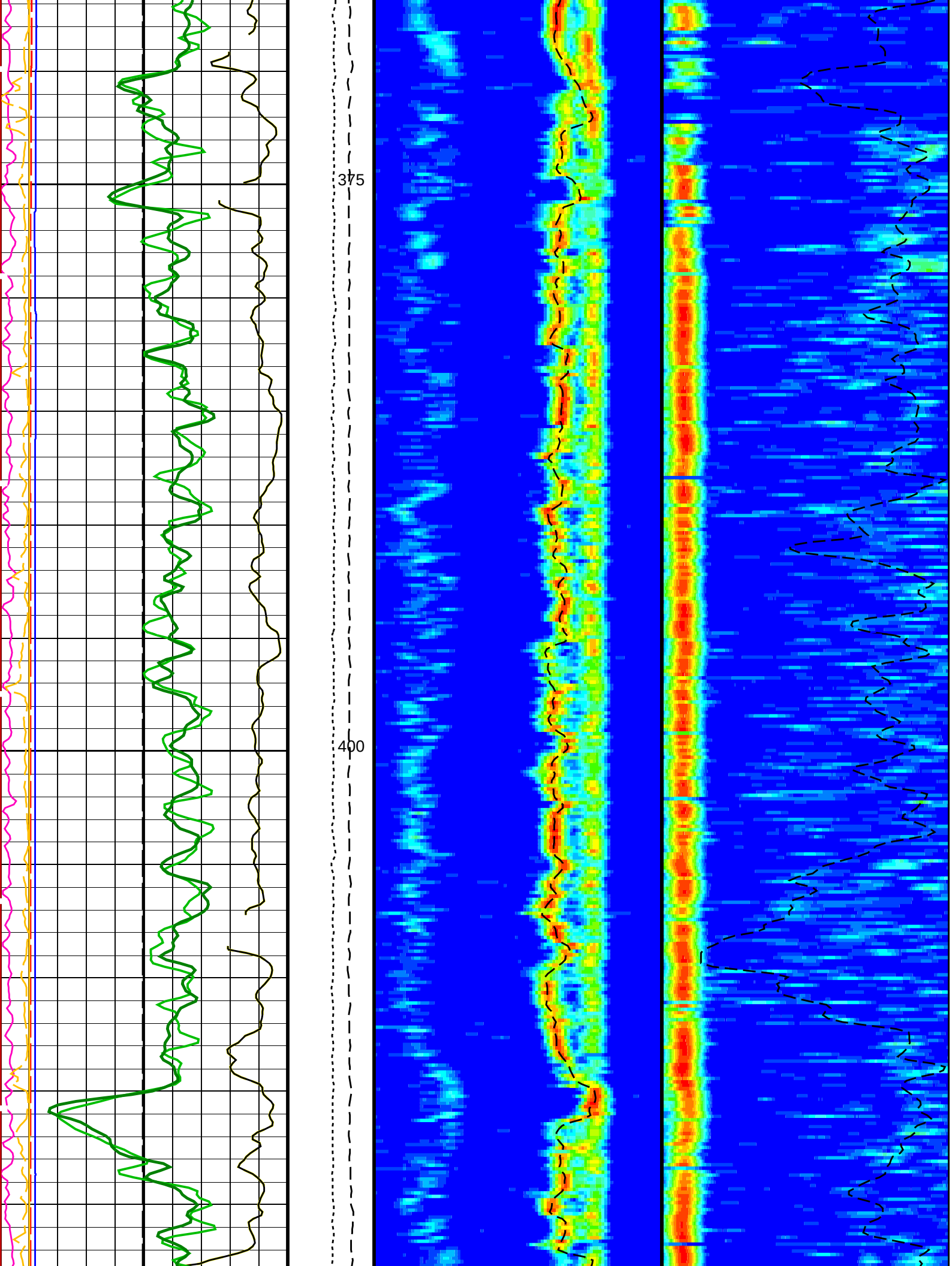

Drill Pipe
100
125

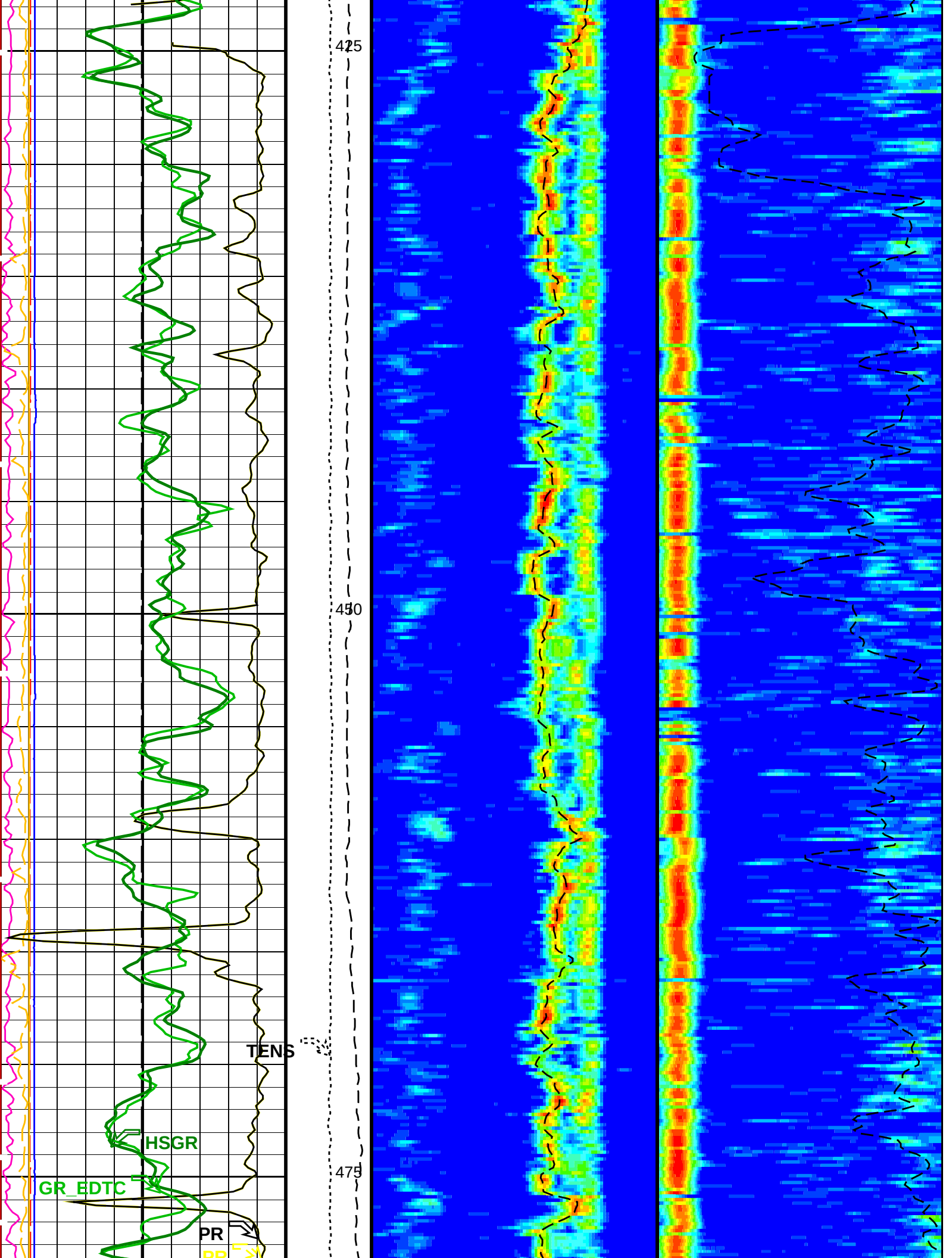

150
175

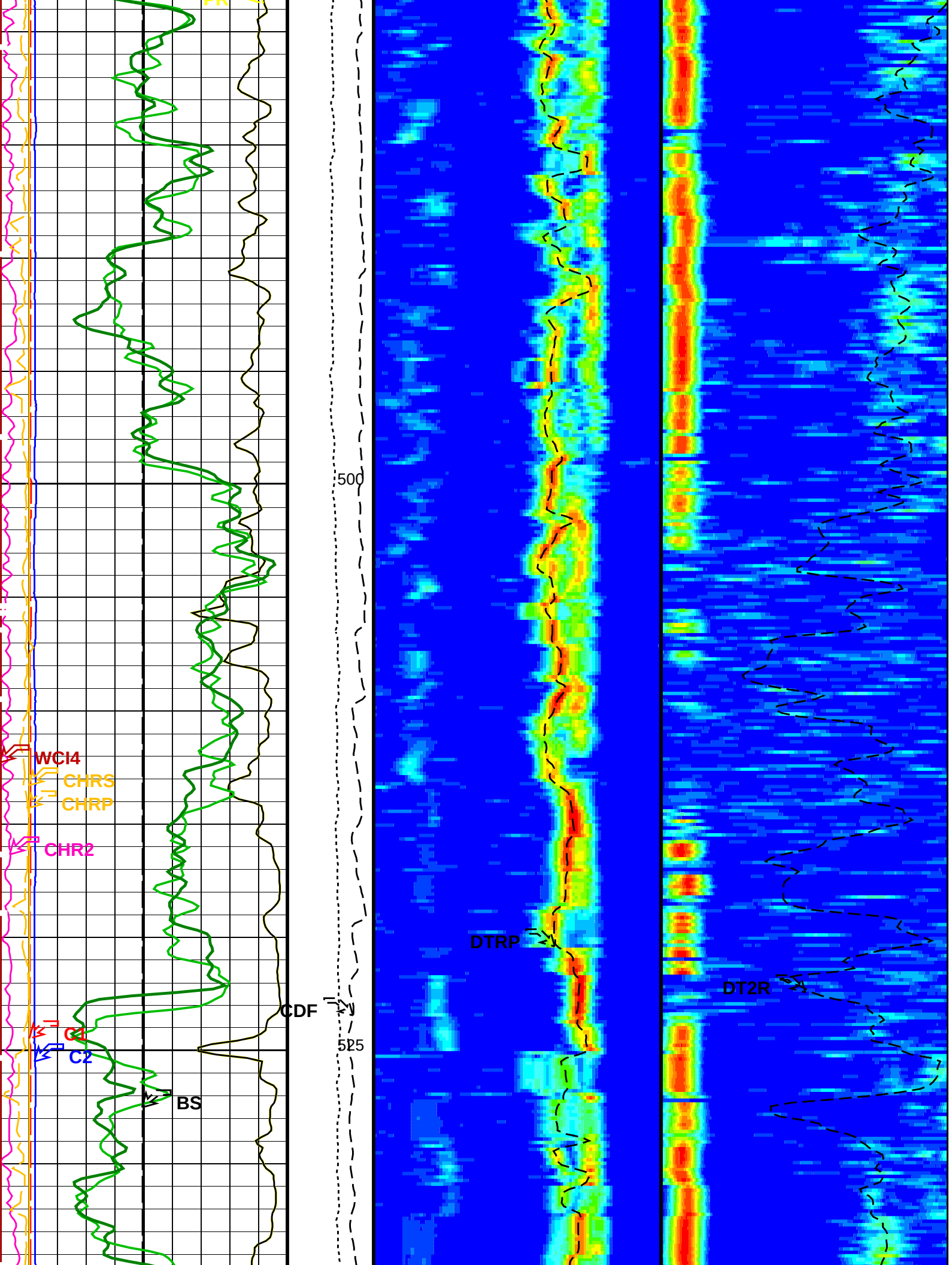

200
225
250

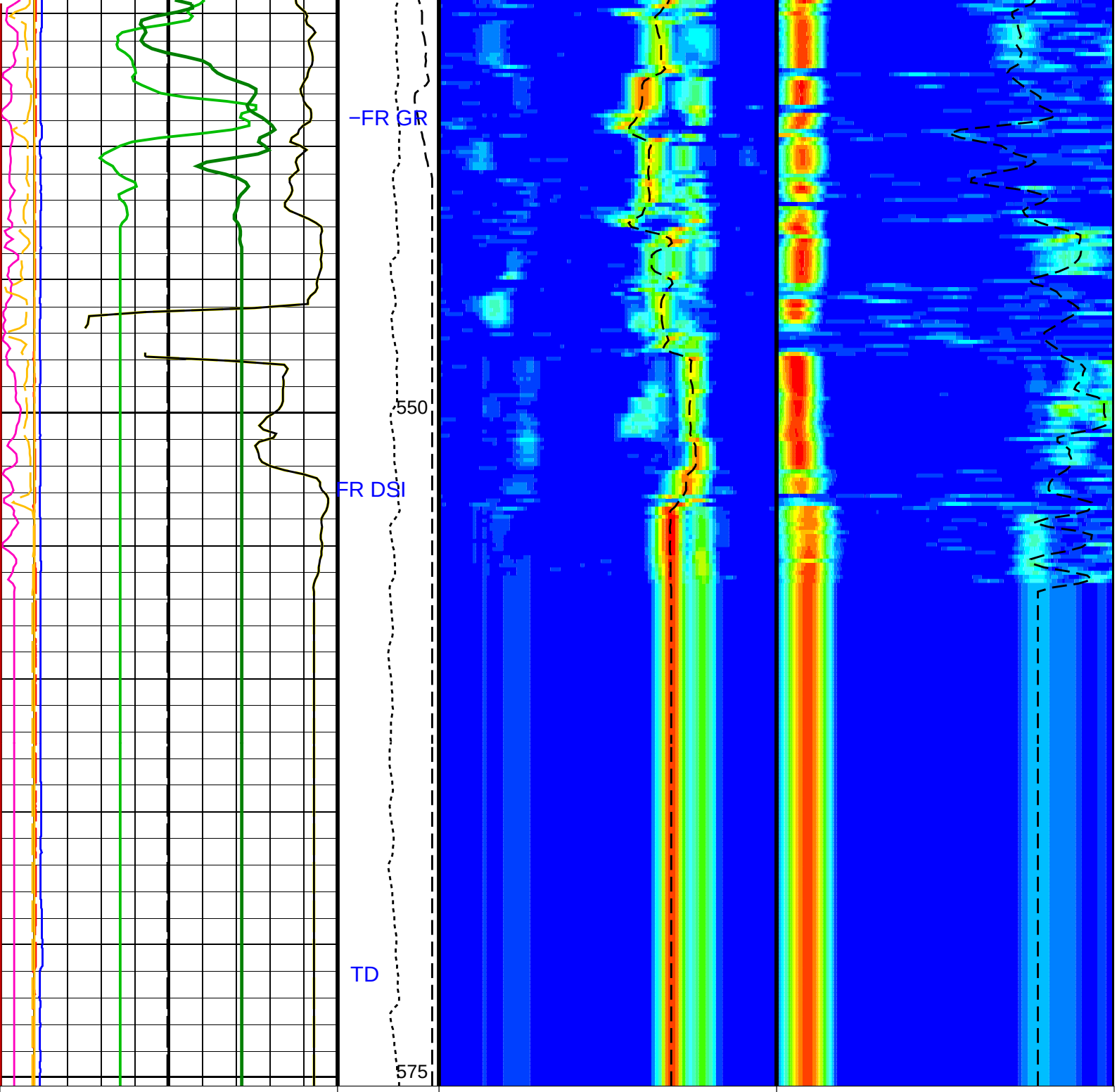

275
300


325
350


375
400


425
450
475
TENS
HSGR
GR_EDTC
PR


WCI4
CHRS
CHRP
CHR2
C1
C2
BS
CDF
500
525
DTRP
DT2R



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Delta−T Comp / RA − P & S (DTRP) 40 (US/F) 240	Delta−T Shear / RA − Upper Dipole (DT2R) 75 (US/F) 1200
Caliper 2 (C2) 0 (IN) 20	Calibrated Downhole Force (CDF) (LBF) 5000 0	Delta−T Shear / RA − P & S (DTRS) 40 (US/F) 240	Min Amplitude Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) 75 (US/F) 1200
Caliper 1 (C1) 0 (IN) 20		Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240	
Poisson's Ratio (PR) 0 (−−−−) 0.5		Flipped Downlog	

Poisson's Ratio (PR)
0 (----) 0.5

Gamma Ray (GR_EDTC)
0 (GAPI) 75

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

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

Peak Coherence / RA − P & S Shear (CHRS)
−1 (----) 9

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (----) 10

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 75

Sea Floor Depth Reference

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	125	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	195	US/F
DDE2	Digitizing Delay 2	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1200	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DTF	Delta−T Fluid	195	US/F
DTSS	Shear Delta−T Source for DTSM Channel	LOWER_DIPOLE	
DWC2	Digitizer Word Count 2	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
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
SAM2	DSST Sonic Acquisition Mode 2 − Upper Dipole Mode	ODD	
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	
SAS2	STC Sonic Array Status − Upper Dipole	255	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO2	STC Search Band Offset − Upper Dipole	3000	US

SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW2	STC Search Bandwidth − Upper Dipole	8000	US
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC2	STC Formation Character − Upper Dipole	SELECTABLE	
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM2	STC Filter − Upper Dipole	B1−2K	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	240	US/F
SLL2	STC Slowness Lower Limit − Upper Dipole	75	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST2	STC Slowness Step − Upper Dipole	4	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW2	STC Source Waveform − Upper Dipole	WF_SAM2	
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	1200	US/F
SUL2	STC Slowness Upper Limit − Upper Dipole	1200	US/F
SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD2	STC Slowness Width − Upper Dipole	40	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF2	STC Time for Baseline Fill − Upper Dipole	0	US
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL2	STC Time Lower Limit − Upper Dipole	600	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST2	STC Time Step − Upper Dipole	200	US
TST4	STC Time Step − Monopole P&S	50	US
TUL2	STC Time Upper Limit − Upper Dipole	20200	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD2	STC Time Width − Upper Dipole	2000	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI2	STC Integration Time Window − Upper Dipole	1600	US
TWI4	STC Integration Time Window − Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
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	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00108187	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01373	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.997851	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	−3678.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 10−Jul−2013 10:55

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:51	PRODUCER	10−Jul−2013 10:49	4253.3 M	3632.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:52	PRODUCER	10−Jul−2013 10:55	

Company: Lamont Doherty Earth Observatory — Well: Expedition 341, Site U1418F

Input DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:51	PRODUCER	10−Jul−2013 10:49	4253.3 M	3632.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:52	PRODUCER	10−Jul−2013 10:55	575.3 M	−45.9 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 75

Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)
0 (−−−−) 10

Peak Coherence / RA − P & S Shear (CHRS)
−1 (−−−−) 9

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

Peak Coherence / RA − Lower Dipole (CHR1)
0 (−−−−) 10

Gamma Ray (GR_EDTC)
0 (GAPI) 75

Poisson's Ratio (PR)
0 (−−−−) 0.5

Tension (TENS)
10000 (LBF) 0

Poisson's Ratio (PR)
0 (−−−−) 0.5

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Sea Floor Depth Reference

Flipped Downlog

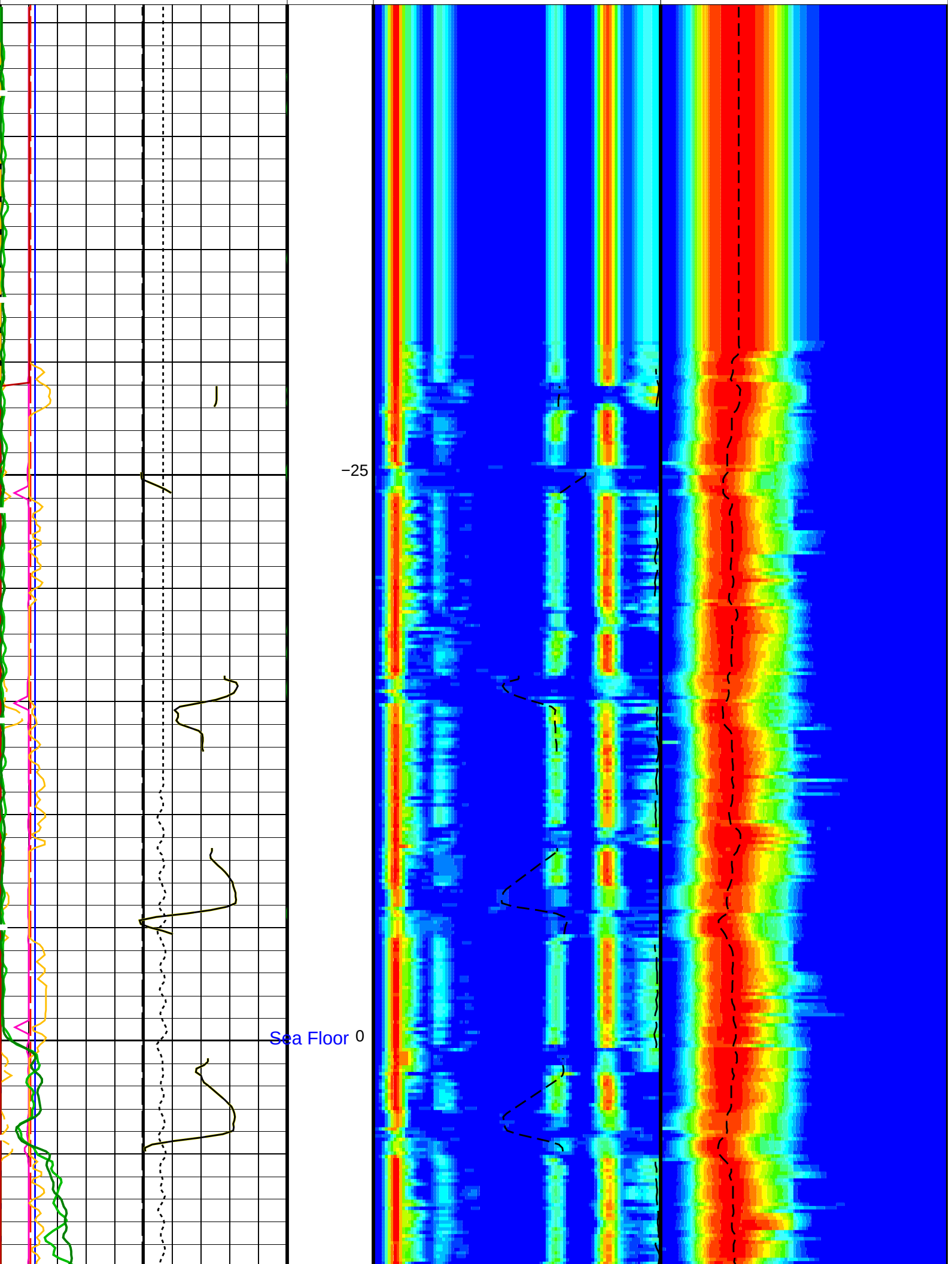
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

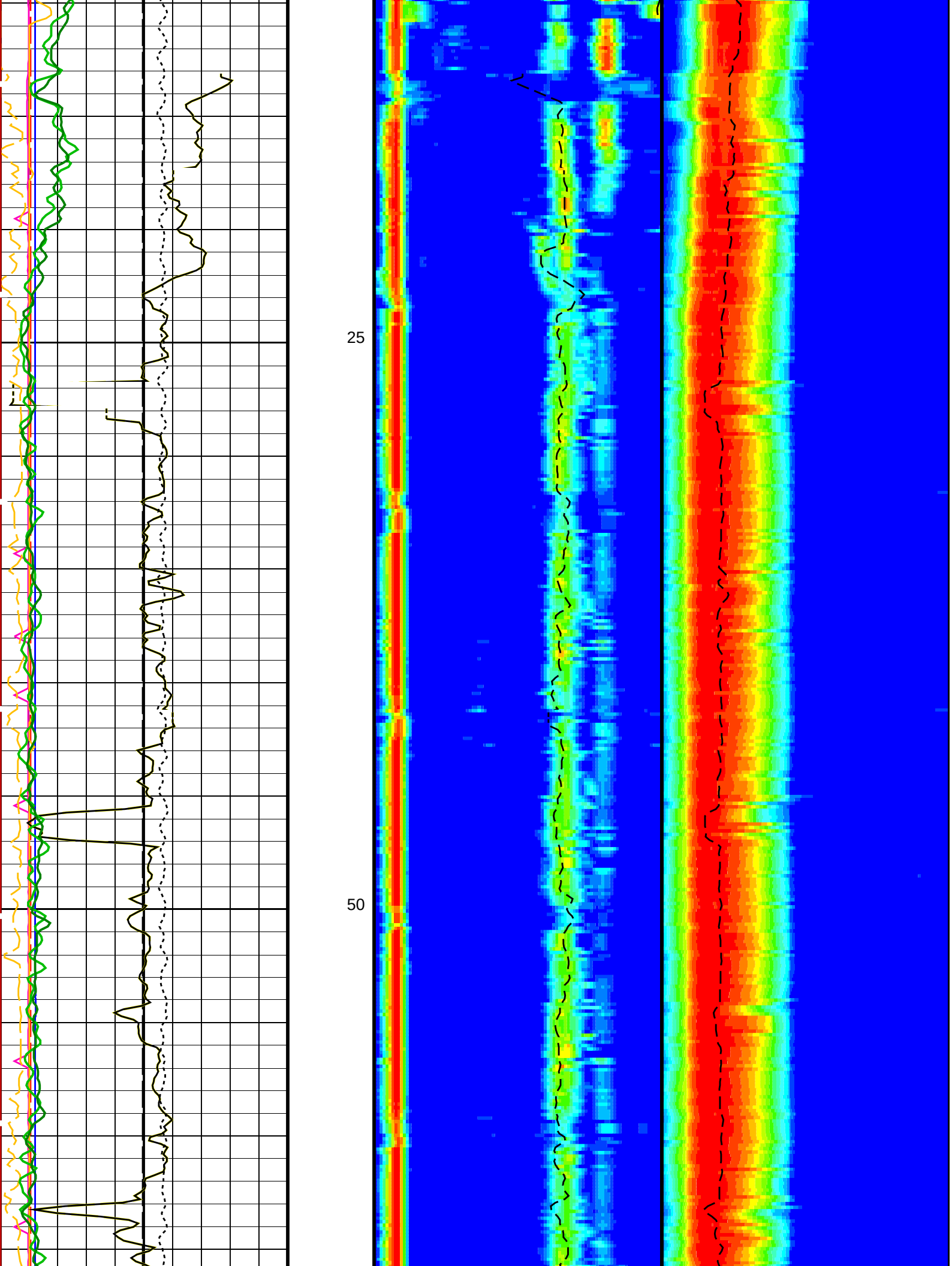
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

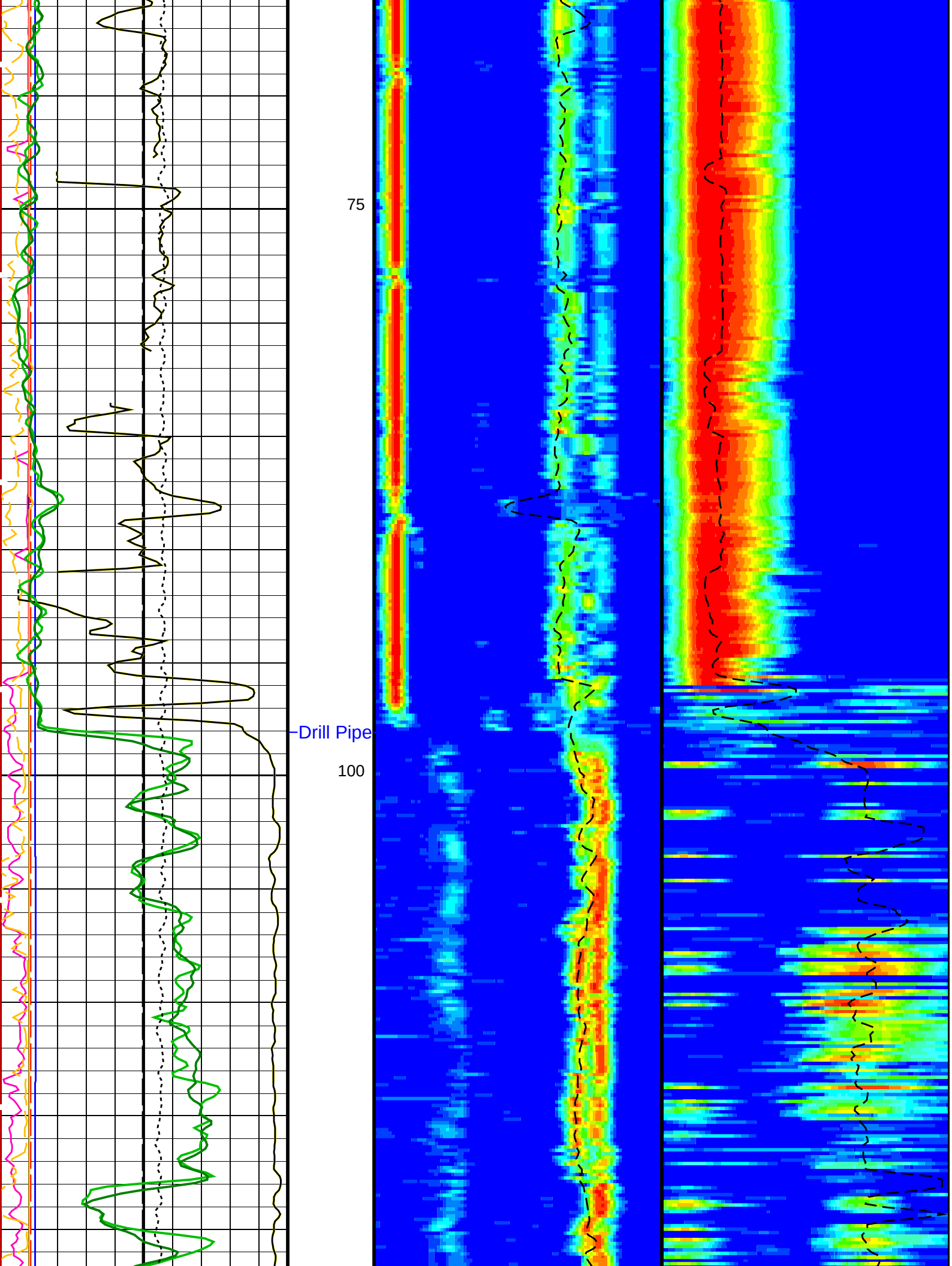
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

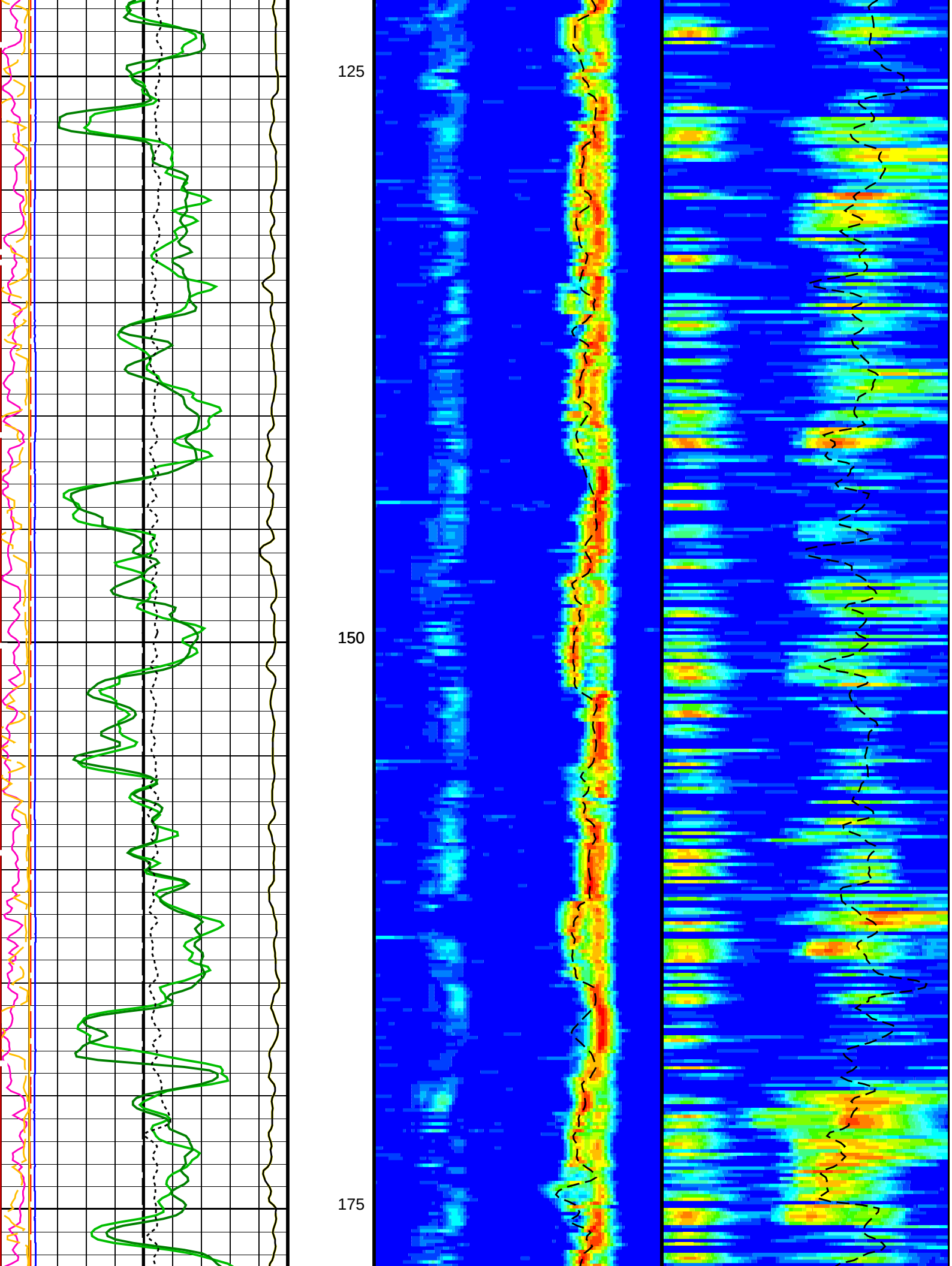
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

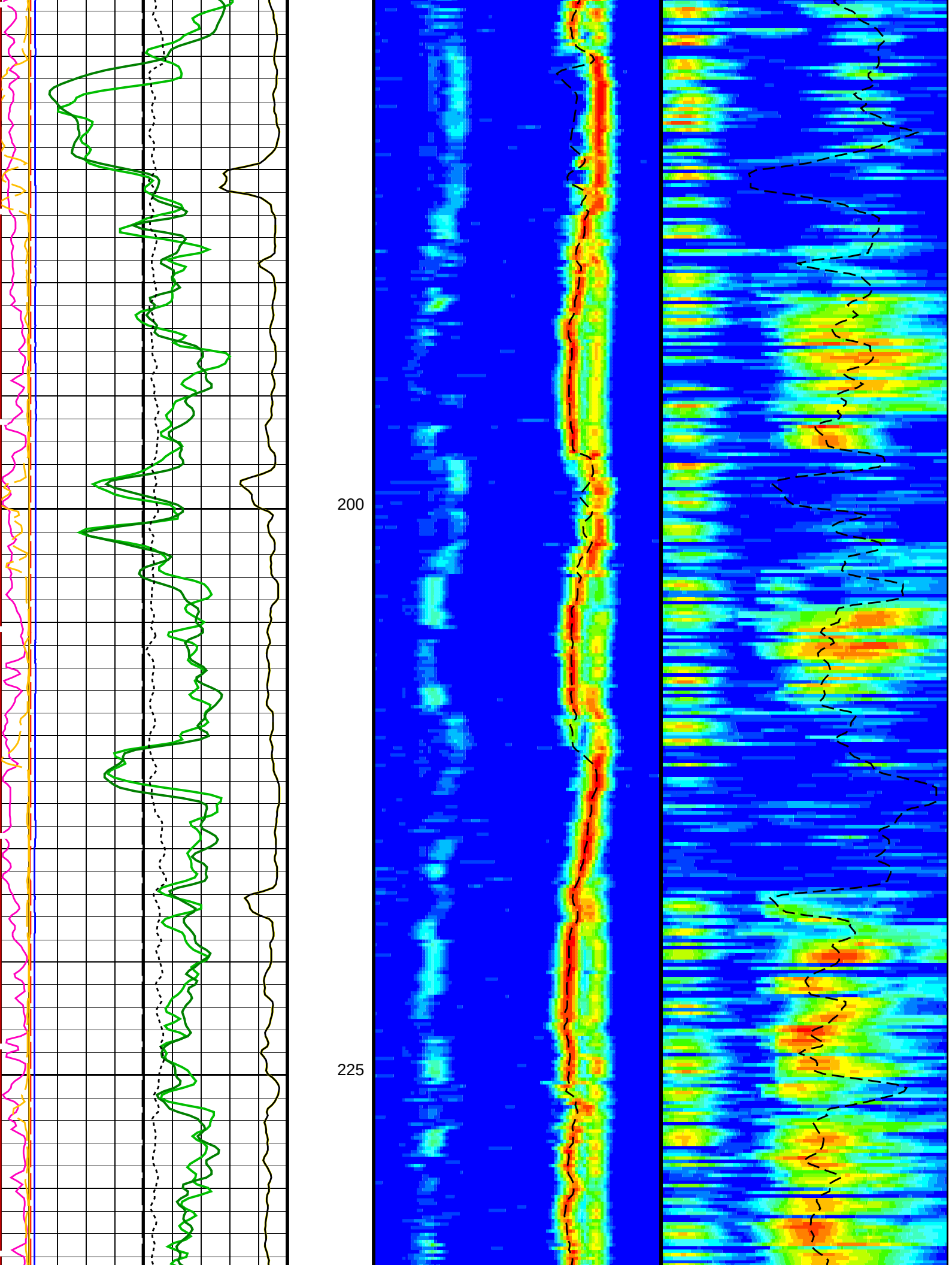
Delta−T Shear / RA − Lower Dipole (DT1R)
75 (US/F) 1200

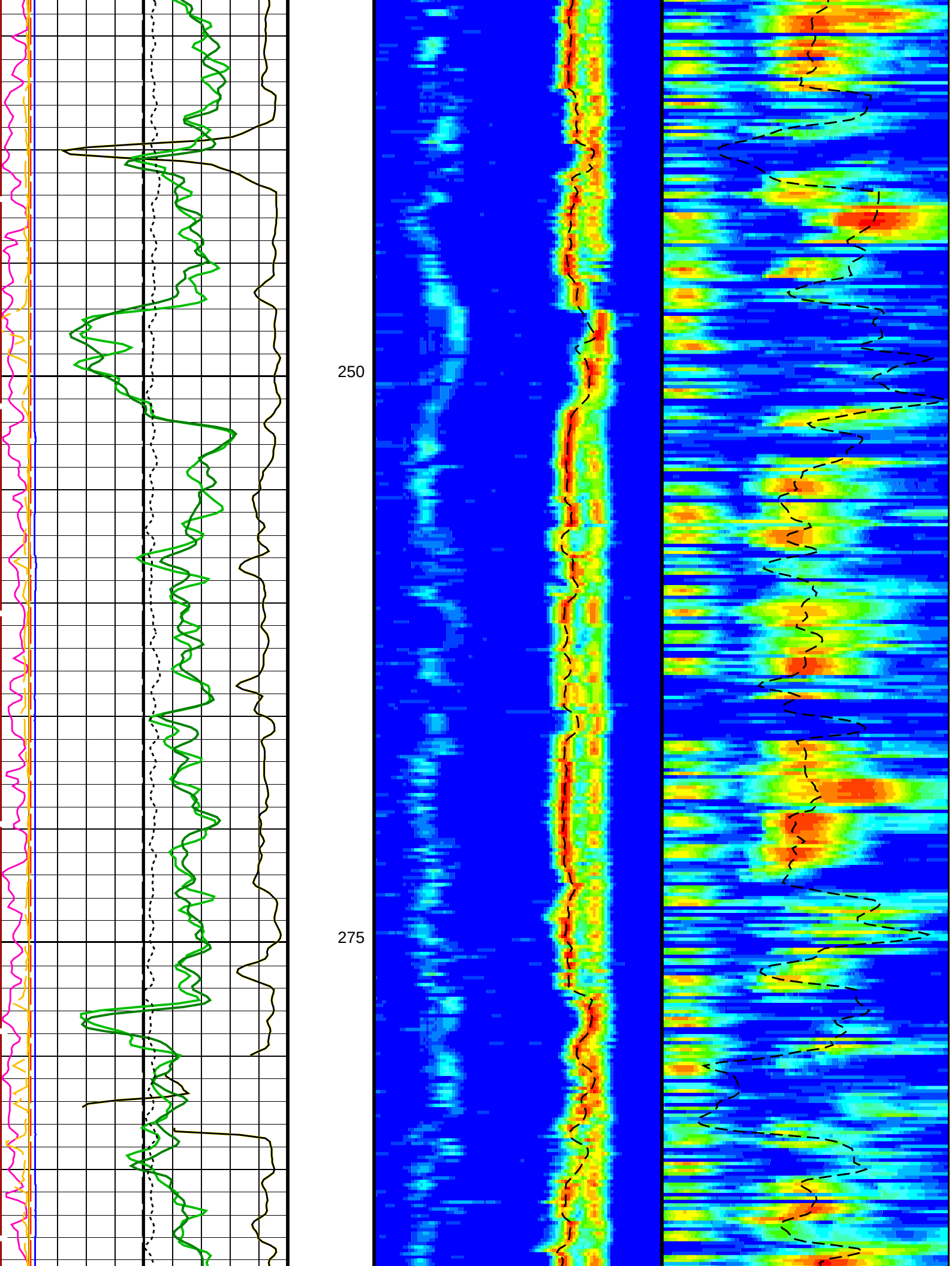

−25
Sea Floor
0

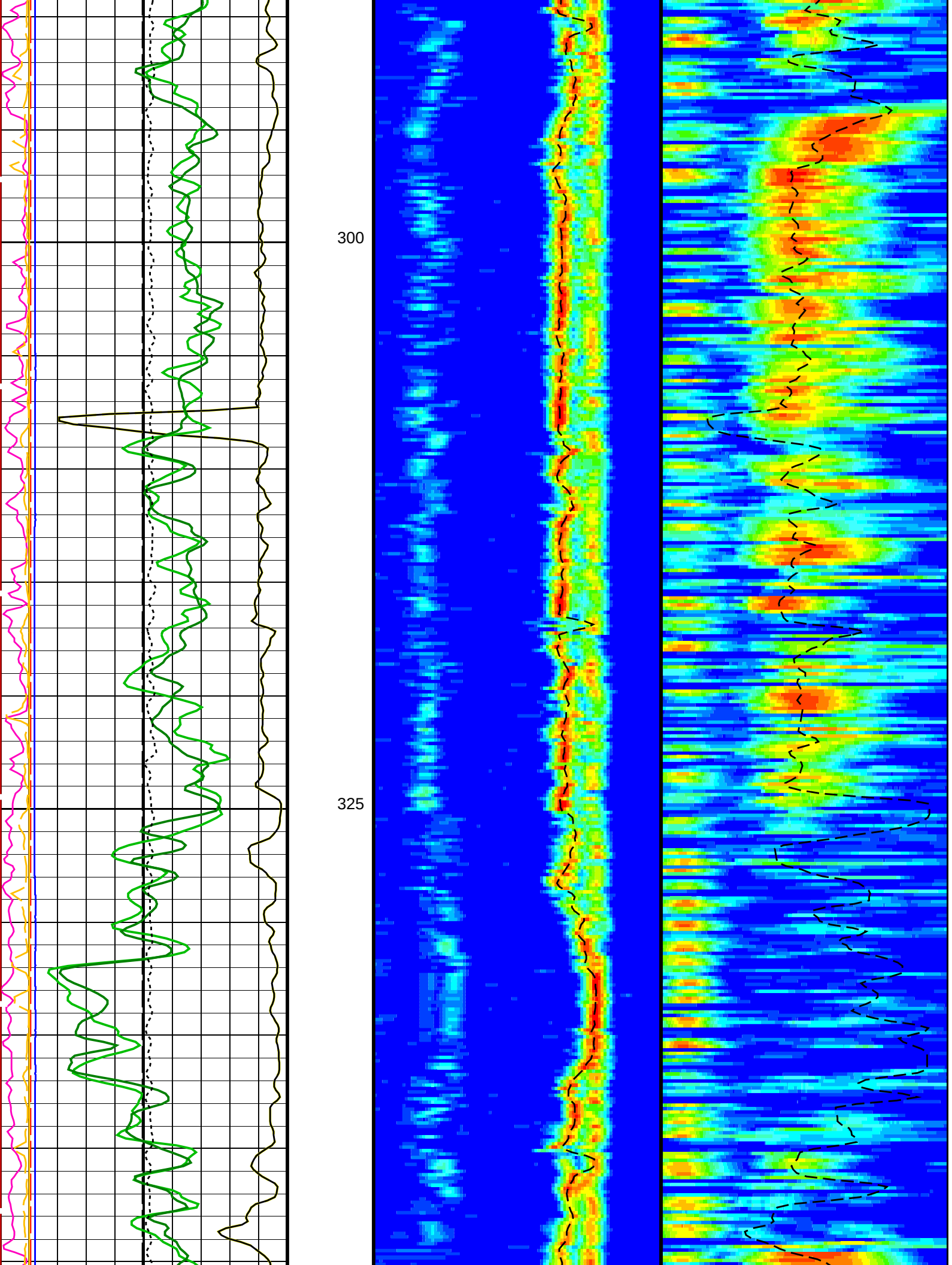

25
50

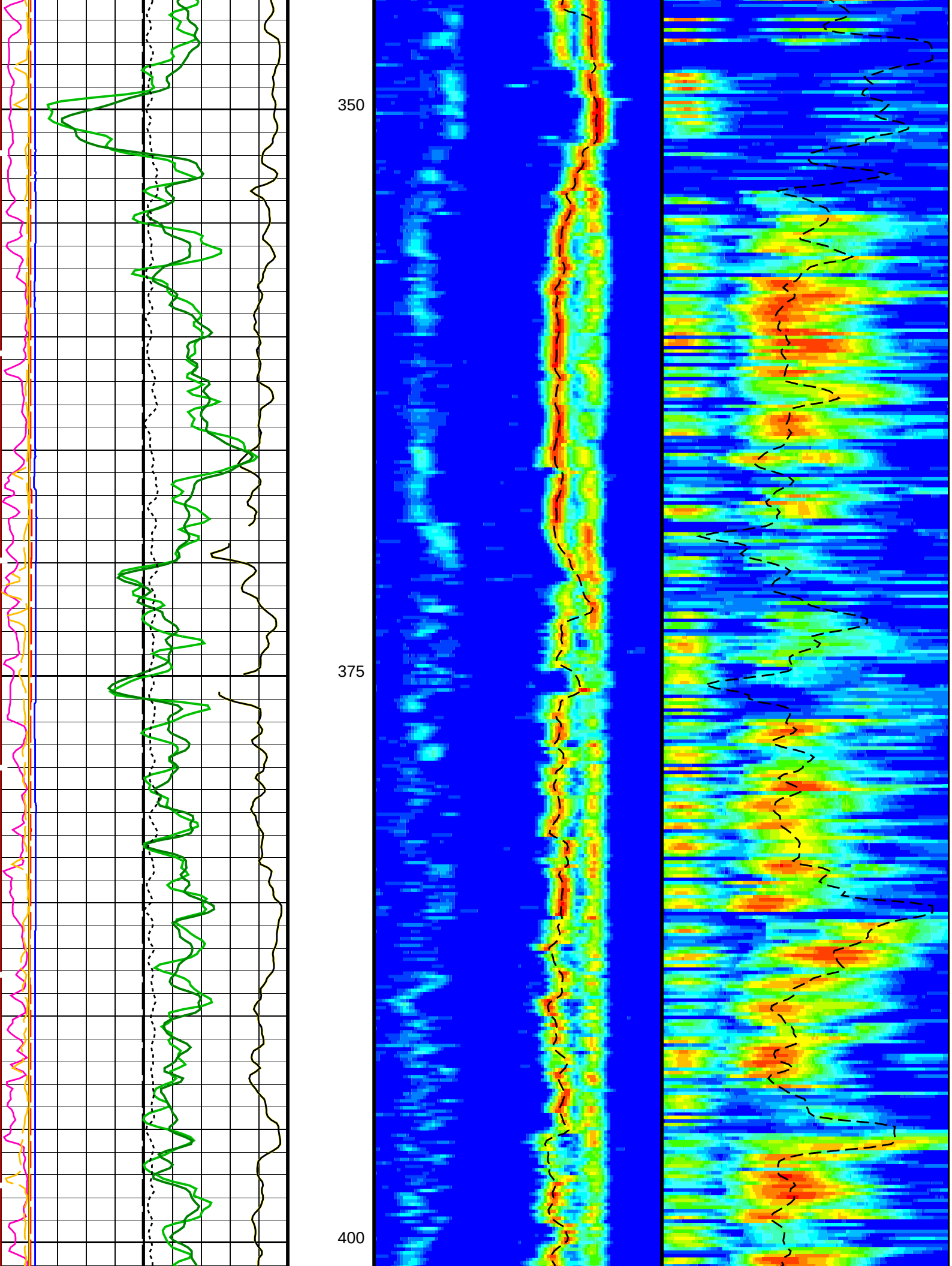

75
Drill Pipe
100

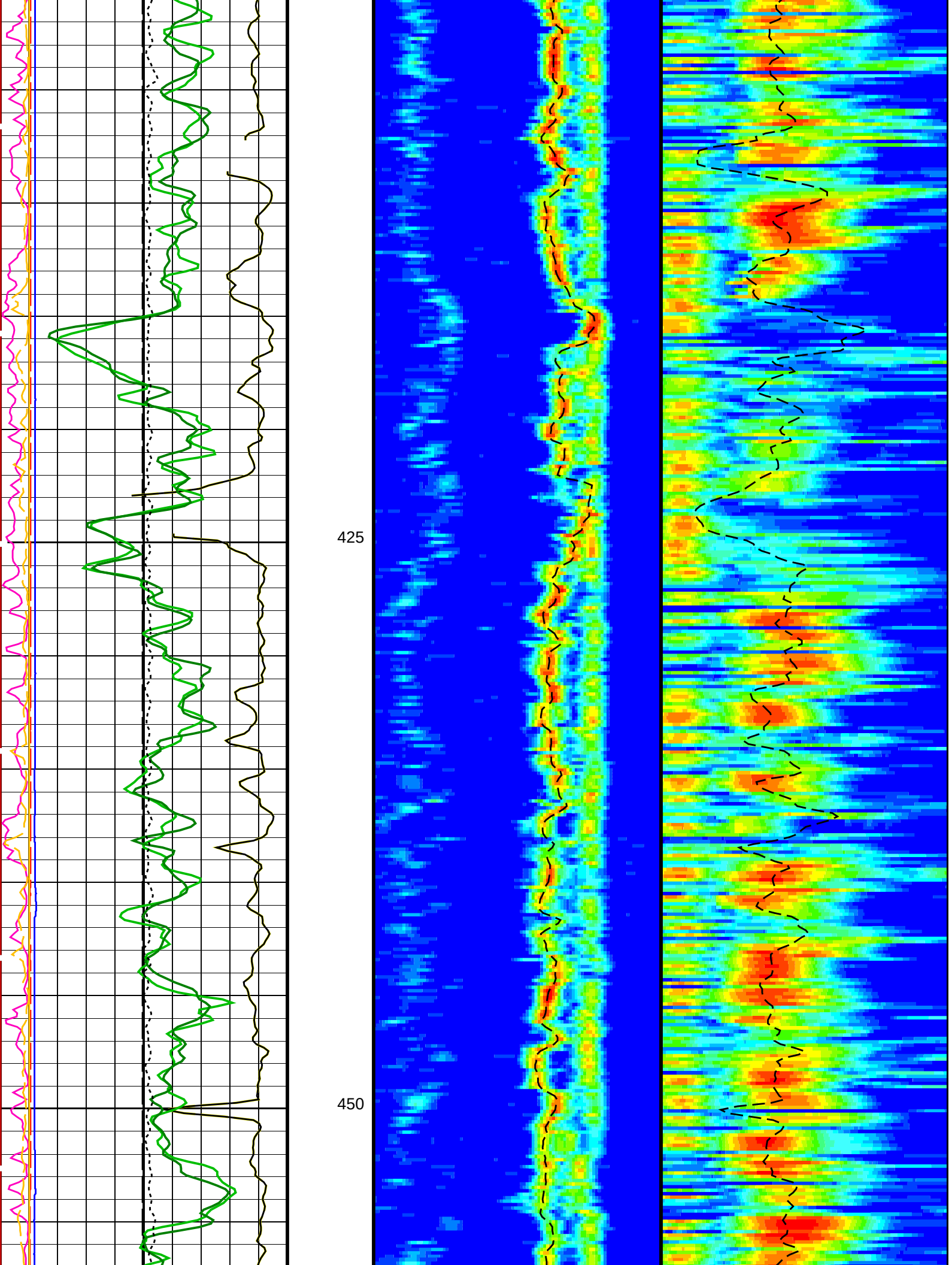

125
150
175

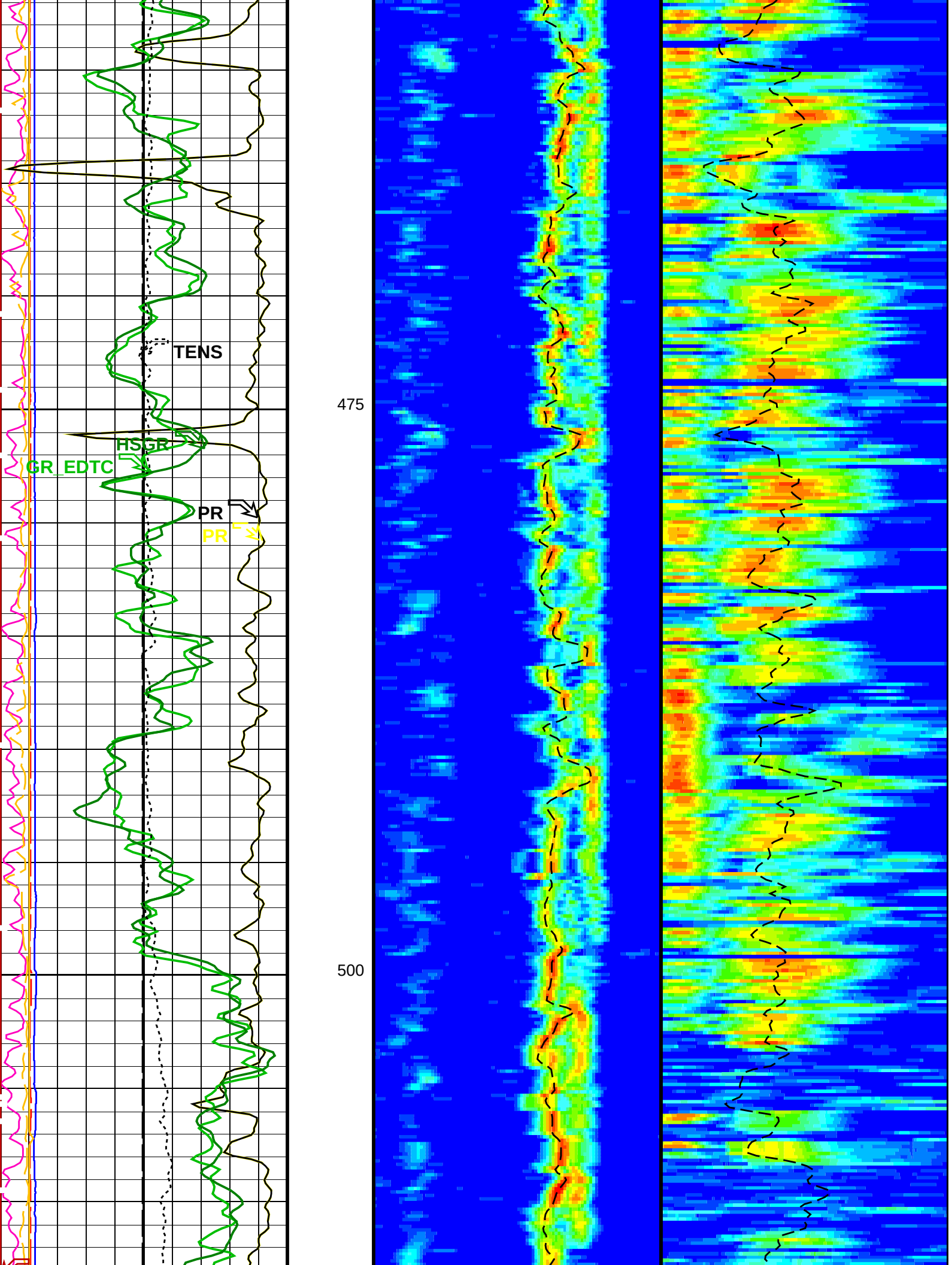

200
225

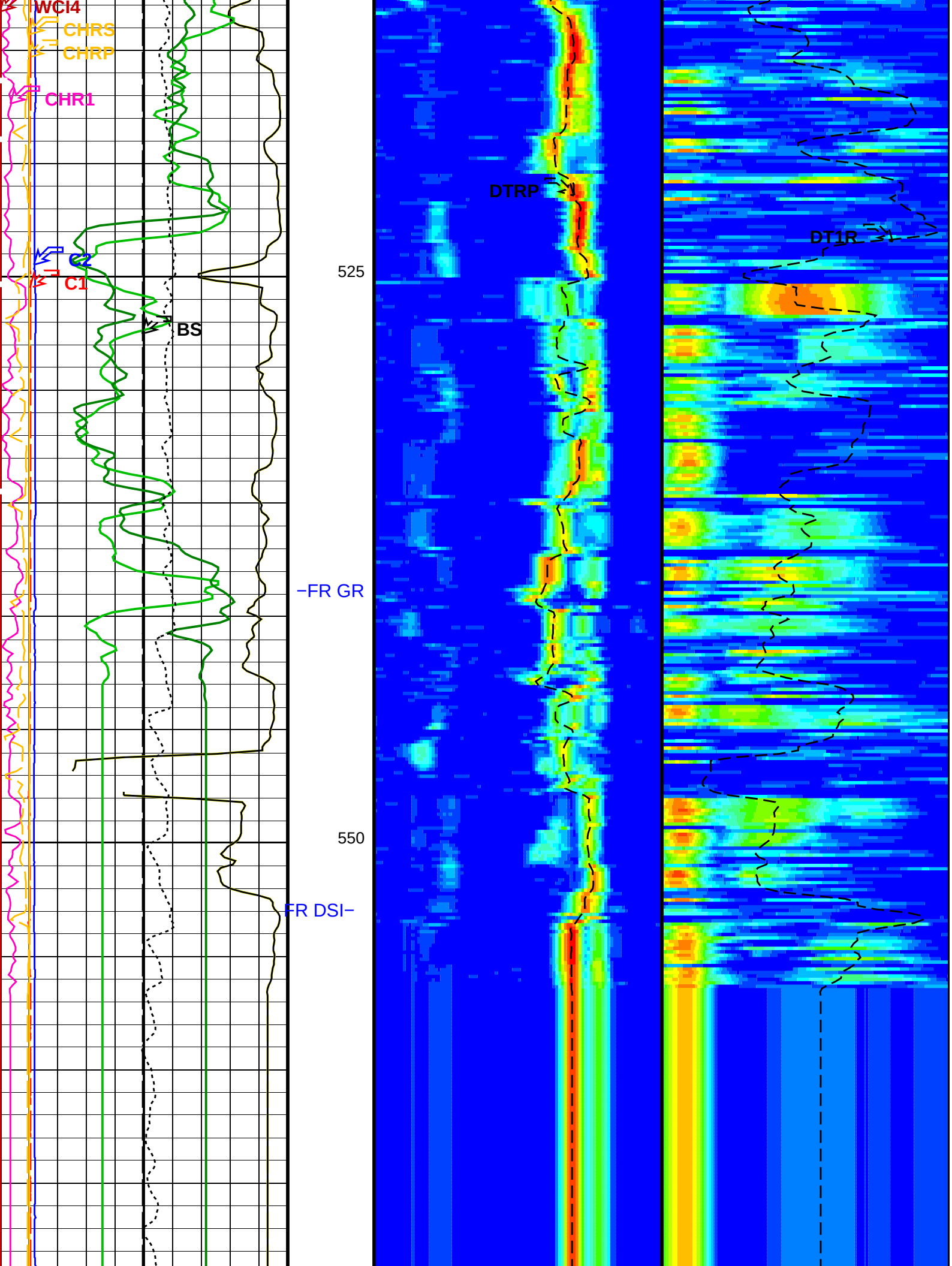

250
275

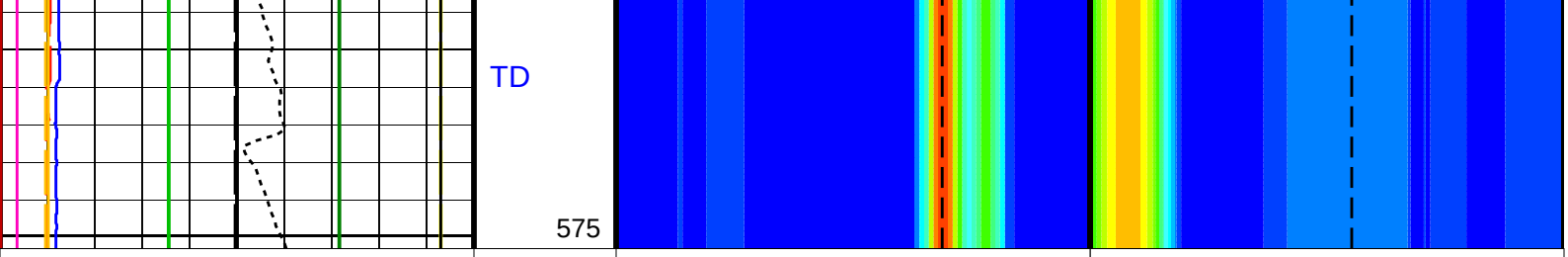

300
325


350
375
400


425
450


TENS
HSGR
GR_EDTC
PR
PR
475
500


WCI4
CHRS
CHRP
CHR1
C2
C1
BS
525
−FR GR
550
FR DSI−
DTRP
DT1R



Bit Size (BS)	Delta−T Comp / RA − P & S (DTRP)	Delta−T Shear / RA − Lower Dipole (DT1R)
0 (IN) 20	40 (US/F) 240	75 (US/F) 1200
Caliper 1 (C1)	Delta−T Shear / RA − P & S (DTRS)	Min Amplitude Max Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
0 (IN) 20	40 (US/F) 240	75 (US/F) 1200
Caliper 2 (C2)	Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4)	
0 (IN) 20	40 (US/F) 240	
Poisson's Ratio (PR)	Flipped Downlog	
0 (−−−−) 0.5		
Tension (TENS)	Sea Floor Depth Reference	
10000 (LBF) 0		
Poisson's Ratio (PR)		
0 (−−−−) 0.5		
Gamma Ray (GR_EDTC)		
0 (GAPI) 75		
Peak Coherence / RA − Lower Dipole (CHR1)		
0 (−−−−) 10		
Peak Coherence / RA − P & S Comp (CHRP)		
0 (−−−−) 10		
Peak Coherence / RA − P & S Shear (CHRS)		
−1 (−−−−) 9		
Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)		
0 (−−−−) 10		
HNGS Spectroscopy Gamma Ray (HSGR)		
0 (GAPI) 75		

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	125	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	195	US/F
DDE1	Digitizing Delay 1	0	US
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	200	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1200	US/F

DSI1	Digitizer Sample Interval 1	40	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DTF	Delta−T Fluid	195	US/F
DTSS	Shear Delta−T Source for DTSM Channel	LOWER_DIPOLE	
DWC1	Digitizer Word Count 1	512	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
LTXG	Lower Dipole Transmitter Geometry	156	IN
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI1	Number Waveform Items 1	8	
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
SAM1	DSST Sonic Acquisition Mode 1 − Lower Dipole Mode	LFD_EVEN	
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	
SAS1	STC Sonic Array Status − Lower Dipole	255	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO1	STC Search Band Offset − Lower Dipole	3000	US
SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW1	STC Search Bandwidth − Lower Dipole	8000	US
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC1	STC Formation Character − Lower Dipole	SELECTABLE	
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM1	STC Filter − Lower Dipole	B.3−1.5K	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	235	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	240	US/F
SLL1	STC Slowness Lower Limit − Lower Dipole	75	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST1	STC Slowness Step − Lower Dipole	4	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
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	1200	US/F
SUL1	STC Slowness Upper Limit − Lower Dipole	1200	US/F
SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD1	STC Slowness Width − Lower Dipole	40	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF1	STC Time for Baseline Fill − Lower Dipole	0	US
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL1	STC Time Lower Limit − Lower Dipole	600	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST1	STC Time Step − Lower Dipole	200	US
TST4	STC Time Step − Monopole P&S	50	US
TUL1	STC Time Upper Limit − Lower Dipole	20440	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD1	STC Time Width − Lower Dipole	2000	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI1	STC Integration Time Window − Lower Dipole	1600	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	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HARK	HNGS Borehole Potassium Running Average	0.00108187	

HABK	HNGS Borehole Potassium Running Average	−0.00108187	
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	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01373	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.997851	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	−3678.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 10−Jul−2013 10:55

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	8453
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	SKK−5169−EDTCB

Input DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:51	PRODUCER	10−Jul−2013 10:49	4253.3 M	3632.1 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:52	PRODUCER	10−Jul−2013 10:55

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 8−Jun−2013 4:52							
Caliper 1 Zero Measurement	12.00	N/A	12.03	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.11	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.20	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.38	N/A	N/A	N/A	IN
Micro Electrical Scanner − B (Slim) Wellsite Calibration − CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 9−Jul−2013 3:22							
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: 9−Jul−2013 3:22							
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: 22−May−2013 20:18 Before: 5−Jun−2013 5:31 After: 8−Jul−2013 15:10							
Na 511 Peak Loc	40.00	39.77	39.78	39.56	−0.2224	1.000	
Na 511 Peak Res	15.50	15.23	15.40	14.97	−0.4249	2.000	%
High Voltage	1150	1161	1143	1152	8.722	N/A	V
Na 1785 Peak Loc	142.6	143.9	143.2	141.5	−1.730	7.000	
Na 1785 Peak Res	8.500	7.558	8.088	8.247	0.1592	2.000	%
Temperature	15.50	16.49	14.24	17.54	3.303	N/A	DEGC
Na Count Rate	45.00	14.90	15.37	14.20	−1.173	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check							
Master: 22−May−2013 20:18 Before: 5−Jun−2013 5:31 After: 8−Jul−2013 15:10							
Na 511 Peak Loc	40.00	39.67	39.68	39.63	−0.04630	1.000	

Na 511 Peak Res	15.50	15.00	15.05	14.74	−0.3100	2.000	%
High Voltage	1150	1082	1074	1085	10.86	N/A	V
Na 1785 Peak Loc	142.6	141.4	140.3	141.2	0.8607	7.000	
Na 1785 Peak Res	8.500	9.134	8.027	8.459	0.4314	2.000	%
Temperature	15.50	16.94	14.41	19.46	5.047	N/A	DEGC
Na Count Rate	45.00	14.58	15.20	14.21	−0.9928	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2
Master: 22−May−2013 20:18 Before: 5−Jun−2013 5:31 After: 8−Jul−2013 15:10

Coincidence Count Rate Ratio	1.000	1.024	1.014	0.9989	−0.01462	0.05000	

Hostile Natural Gamma Ray Sonde Master Calibration − Detector 1 Calibration
Master: 22−May−2013 20:18

Na 511 Peak Set Point	40.00	41.00	−−	−−	−−	−−	
Th Peak Loc	209.6	211.4	−−	−−	−−	−−	
Th Peak Res	7.000	6.972	−−	−−	−−	−−	%
Background Count Rate	142.5	18.97	−−	−−	−−	−−	CPS
Gain Ratio	1.000	1.011	−−	−−	−−	−−	

Hostile Natural Gamma Ray Sonde Master Calibration − Detector 2 Calibration
Master: 22−May−2013 20:18

Na 511 Peak Set Point	40.00	41.00	−−	−−	−−	−−	
Th Peak Loc	209.6	208.8	−−	−−	−−	−−	
Th Peak Res	7.000	6.474	−−	−−	−−	−−	%
Background Count Rate	142.5	18.20	−−	−−	−−	−−	CPS
Gain Ratio	1.000	1.001	−−	−−	−−	−−	

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration
Before: 8−Jul−2013 3:23

EDTC Z−Axis Acceleration	9.810	N/A	9.800	N/A	N/A	N/A	M/S2

Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration
Before: Calibration out of date 5−Jun−2013 5:18

Gamma Ray (Jig − Bkg)	156.4	N/A	156.4	N/A	N/A	14.22	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	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

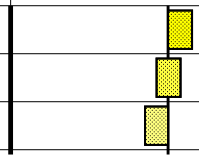
Hostile Natural Gamma Ray Sonde / Equipment Identification

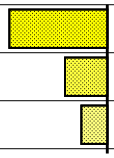
Primary Equipment:		
HNGS Sonde	HNGS − BA	194
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH − BA	205
Gamma Source Radioactive	GSR − U	616008

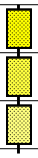
Hostile Natural Gamma Ray Sonde Wellsite Calibration

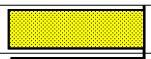
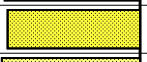
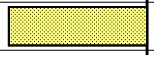
Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.77	Master		15.23	Master		1161

Phase	Na 1785 Peak Loc	Value
Master		143.9
Before		143.2
After		141.5
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		7.558
Before		8.088
After		8.247
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		16.49
Before		14.24
After		17.54
	−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

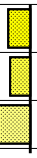
Phase	Na Count Rate CPS	Value
Master		14.90
Before		15.37
After		14.20
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

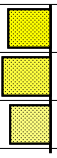
Master: 22−May−2013 20:18 Before: 5−Jun−2013 5:31 After: 8−Jul−2013 15:10

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.67
Before		39.68
After		39.63
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)	

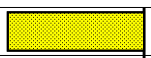
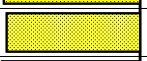
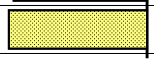
Phase	Na 511 Peak Res %	Value
Master		15.00
Before		15.05
After		14.74
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1082
Before		1074
After		1085
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		141.4
Before		**140.3**
After		141.2
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		9.134
Before		**8.027**
After		8.459
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		16.94
Before		**14.41**
After		19.46
	−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		14.58
Before		15.20
After		14.21
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 22−May−2013 20:18 Before: 5−Jun−2013 5:31 After: 8−Jul−2013 15:10

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		1.024
Before		1.014
After		0.9989
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 22−May−2013 20:18
Before: 5−Jun−2013 5:31
After: 8−Jul−2013 15:10

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 1 Calibration

Phase	Na 511 Peak Set Point	Value
Master		41.00
	38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)	

Phase	Th Peak Loc	Value
Master		211.4
	201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)	

Phase	Th Peak Res %	Value
Master		6.972
	5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	

Phase	Background Count Rate CPS	Value

Phase	Gain Ratio	Value

Master		18.97	Master		1.011
10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)

Master: 22−May−2013 20:18

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		208.8	Master		6.474
38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)

Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value
Master		18.20	Master		1.001
10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)

Master: 22−May−2013 20:18

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		9.800
9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)

Before: 8−Jul−2013 3:23

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		6.203	Before		156.4	Before		164.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	142.2 (Minimum)	156.4 (Nominal)	170.6 (Maximum)	149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)

Before: Calibration out of date 5−Jun−2013 5:18

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 341, Site U1418F**
Field: **Southern Alaska Margin Tectonics**
Rig: **JOIDES Resolution**
Ocean: **Pacific**

Dipole Shear Sonic Imager (DSI)
Upper/Lower Dipole Shear
Monopole Compressional / Gamma Ray