Schlumberger

Company: **Lamont Doherty Earth Observatory**

Well: **Expedition 341, Site U1420A**
Field: **Southern Alaska Margin Tectonics**
Rig: **JOIDES Resolution** Ocean: **Pacific**

Rig: JOIDES Resolution
Field: Southern Alaska Margin Tectonic
Location: Latitude: N 59* 41.3399'
Well: Expedition 341, Site U1420A
Company: Lamont Doherty Earth Observato

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

LOCATION

Latitude: N 59* 41.3399'
Longitude: W 143* 12.0599'

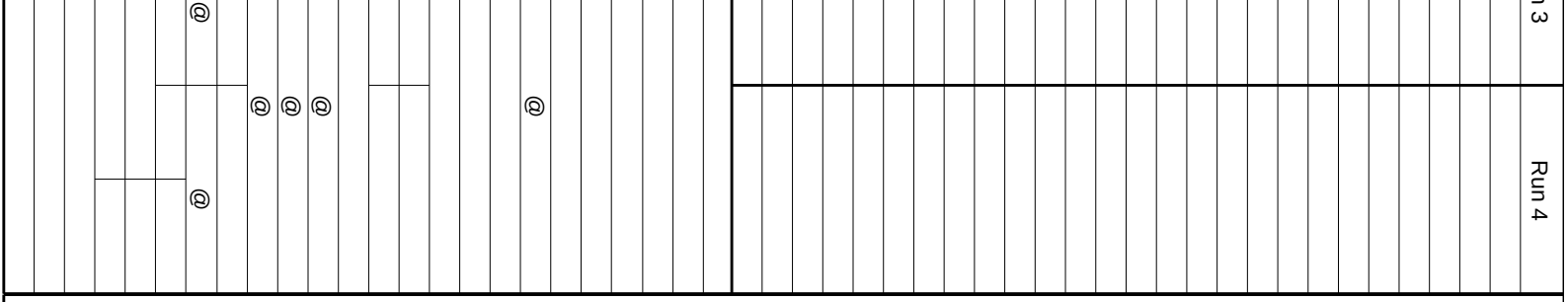
Elev.: K.B. −259.00 m
G.L. 0.00 m
D.F. −259.00 m

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

API Serial No.	Max. Hole Devi. 0 deg	Longitude W 143.20099	Latitude N 59.6889

	Run 1	Run 2	Run 3
Logging Date	21−Jul−2013		
Run Number	1		
Depth Driller	1020.8 m		
Schlumberger Depth	284 m		
Bottom Log Interval	284 m		
Top Log Interval	0 m		
Casing Driller Size @ Depth	5.500 in @ 93.3 m	@	@
Casing Schlumberger	88.5 m		
Bit Size	9.875 in		
Type Fluid In Hole	Heavy weighted Barite mud		
MUD Density / Viscosity	1.27 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	@ 15 / @ 15	@ / @	
Maximum Recorded Temperatures	15 degC		
Circulation Stopped / Time	21−Jul−2013 / 5:00		
Logger On Bottom / Time	21−Jul−2013 / 12:30		
Unit Number / Location	625003 / Houston	/	
Recorded By	K. Swain		
Witnessed By	A. Slagle, L. Drab		

	Run 1	Run 2	Run 3
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: Caliper	OS1:
OS2: DITE	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8" BS	
Heavy weighted barite mud at 10.6 lb/gal pumped in hole prior to logging.	
Caliper used from HLDS, no density measurement available as source was	
not installed as requested to avoid hole problems.	
2 MCD (mechanical Caliper Device) centralizers run with DSI.	
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.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 19C0−187
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

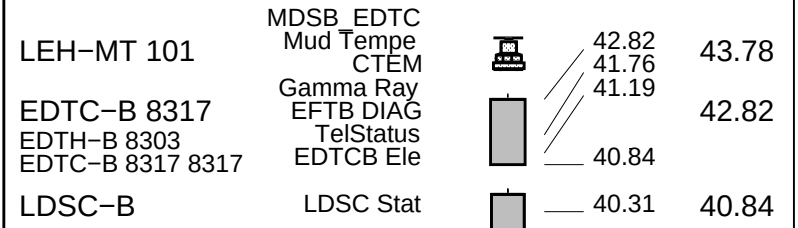
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

WITM (EDTS)−A 1

DOWNHOLE EQUIPMENT



HLDS 39.78
GSR−Z 8113
HLDV−D 45
HLDS−D 45
HEH−H 47
HLDP−C 45

Caliper
SS LS Status — 35.72

AH−184 #994 34.96

AH−ECH−MRA 34.35
AH−ECH−MRA 5714

AH−184 #2928 31.46

AH−MCD 30.85
AH−MCD 82

DSST−B 28.57
SPAC−B 8128
ECH−SD 8127
SMDR−BD 8227
SSIJ−BA 8204
SMDX−AA 8194

PWF — 13.02

AH−MCD1 13.02
AH−MCD1 1

DTA−8259 10.74
ECH−KE 8451

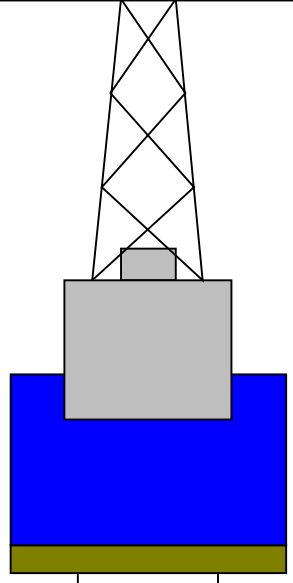
DIT−E 9.52
DIC−EB 438
MIH−ZA 148
DIS−HB 442

SP 3.15
Deep Ind 2.90
Aux Meas SFL 1.98
Med Ind 1.83
ACCZ
Status HV DF
Tension 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	−259.4			
Derrick Floor Elevation	−259.4			
Mean Sea Level	−248.4			
			4.1	
		0	4.1	Sea Floor
		93.3	9.875	Open Hole
		1020.8		Total Depth

Company: Lamont Doherty Earth Observatory | Well: Expedition 341, Site U1420A

Input DLIS Files

DEFAULT	PI_DSI_LDL_028PUP	FN:30	PRODUCER	22−Jul−2013 16:51	541.8 M	303.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_031PUP	FN:33	PRODUCER	22−Jul−2013 16:56	282.7 M	44.0 M

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

PIP SUMMARY

Time Mark Every 60 S

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

2nd Pass, Sea Floor Depth Reference

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

Gamma Ray (GR_EDTC)
0 (GAPI) 75

Poisson's Ratio (PR)
0 (−−−−) 0.5

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

Poisson's Ratio (PR)
0 (−−−−) 0.5

Calibrated Downhole Force (CDF) (LBF)
5000 0

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

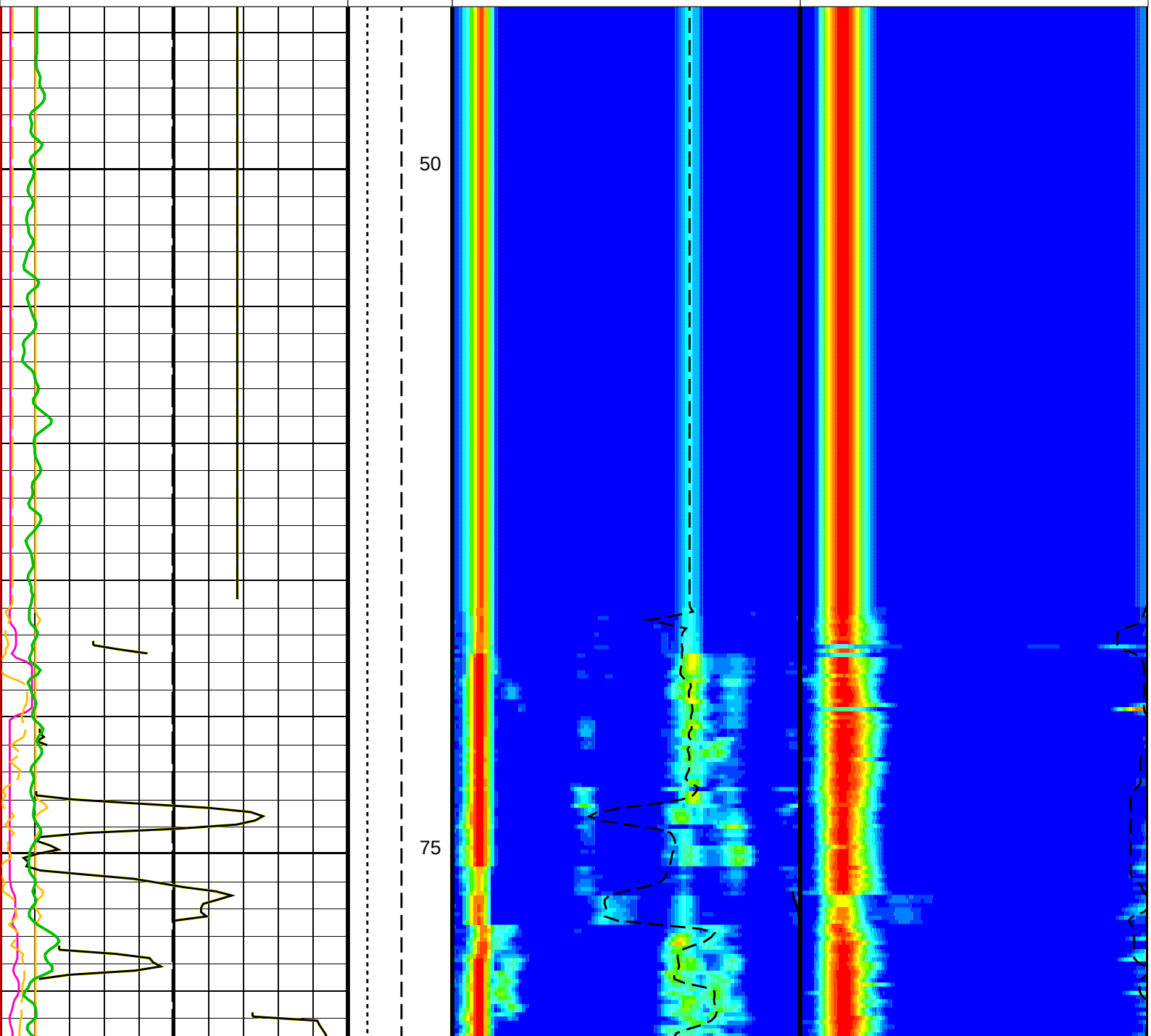
Min Amplitude Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

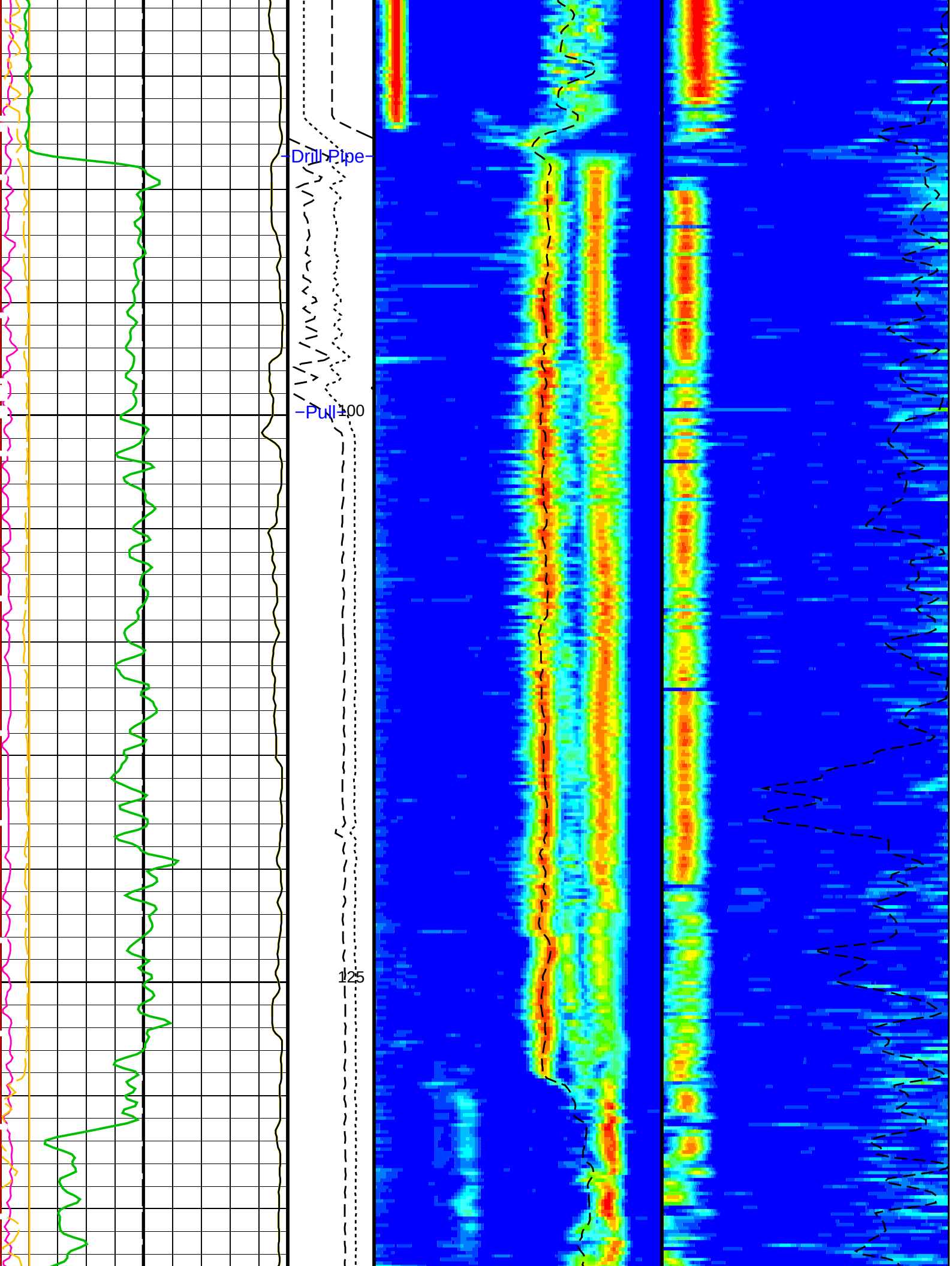
Bit Size (BS)
0 (IN) 20

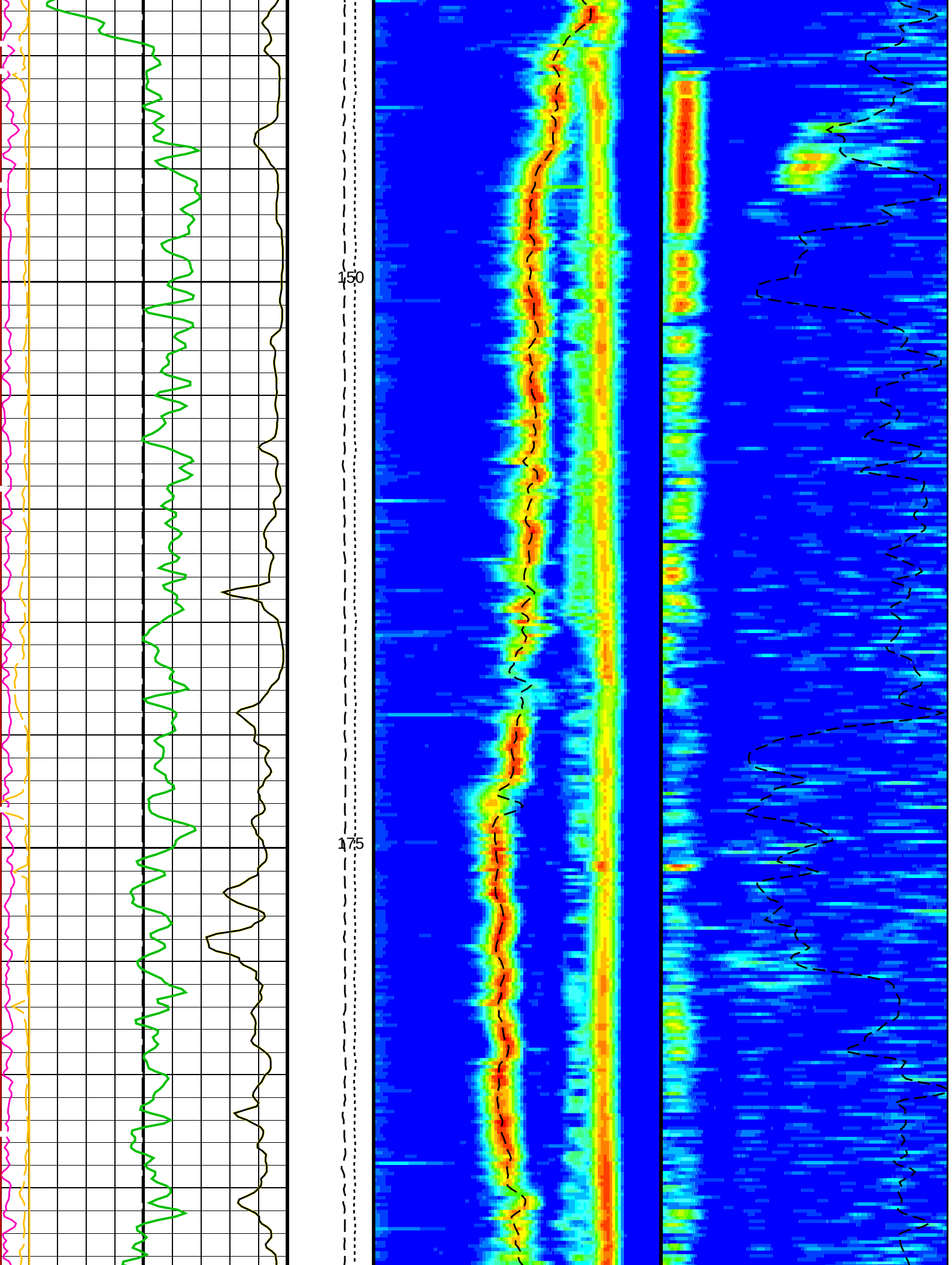
Tension (TENS) (LBF)
10000 0

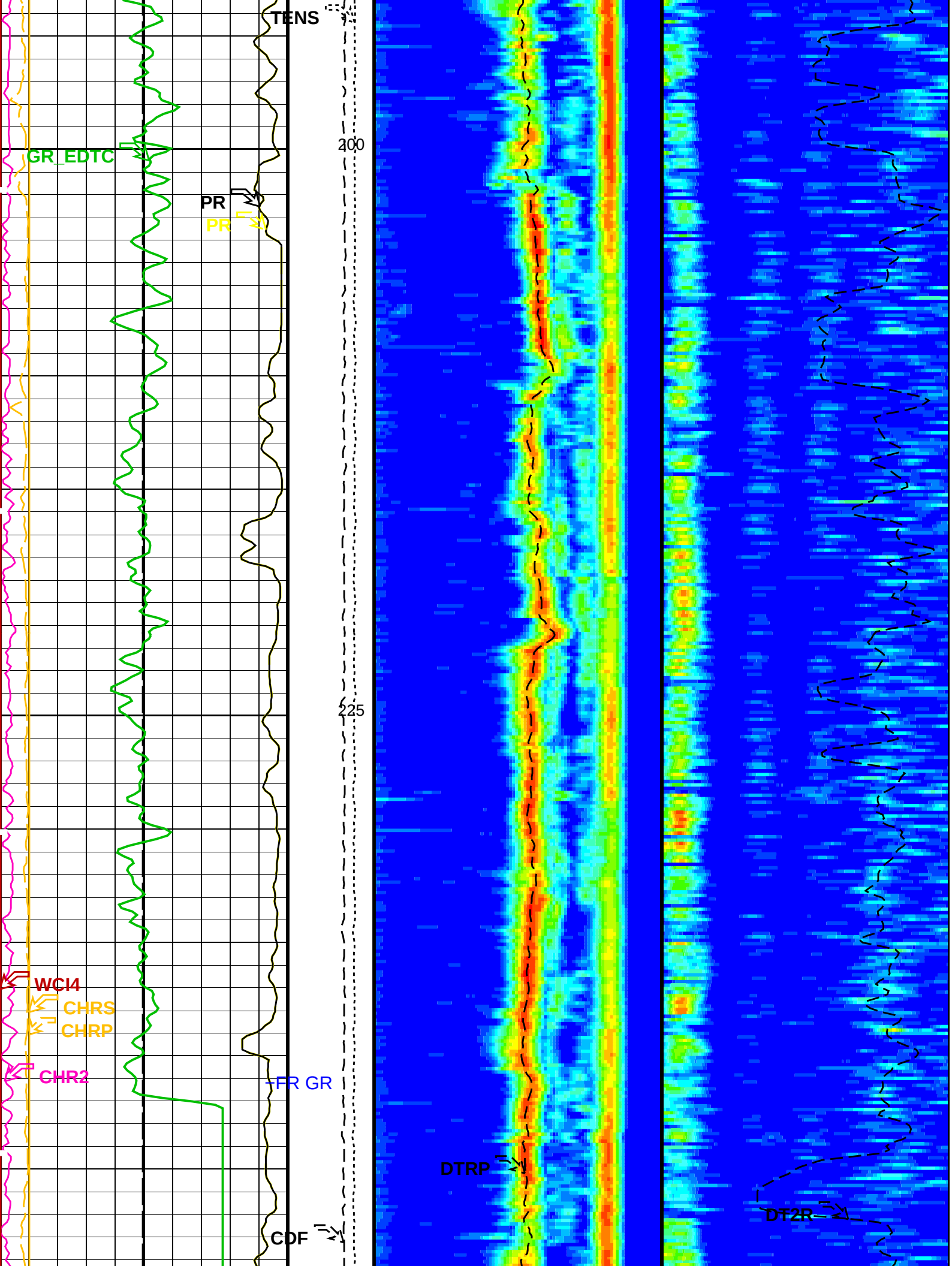
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

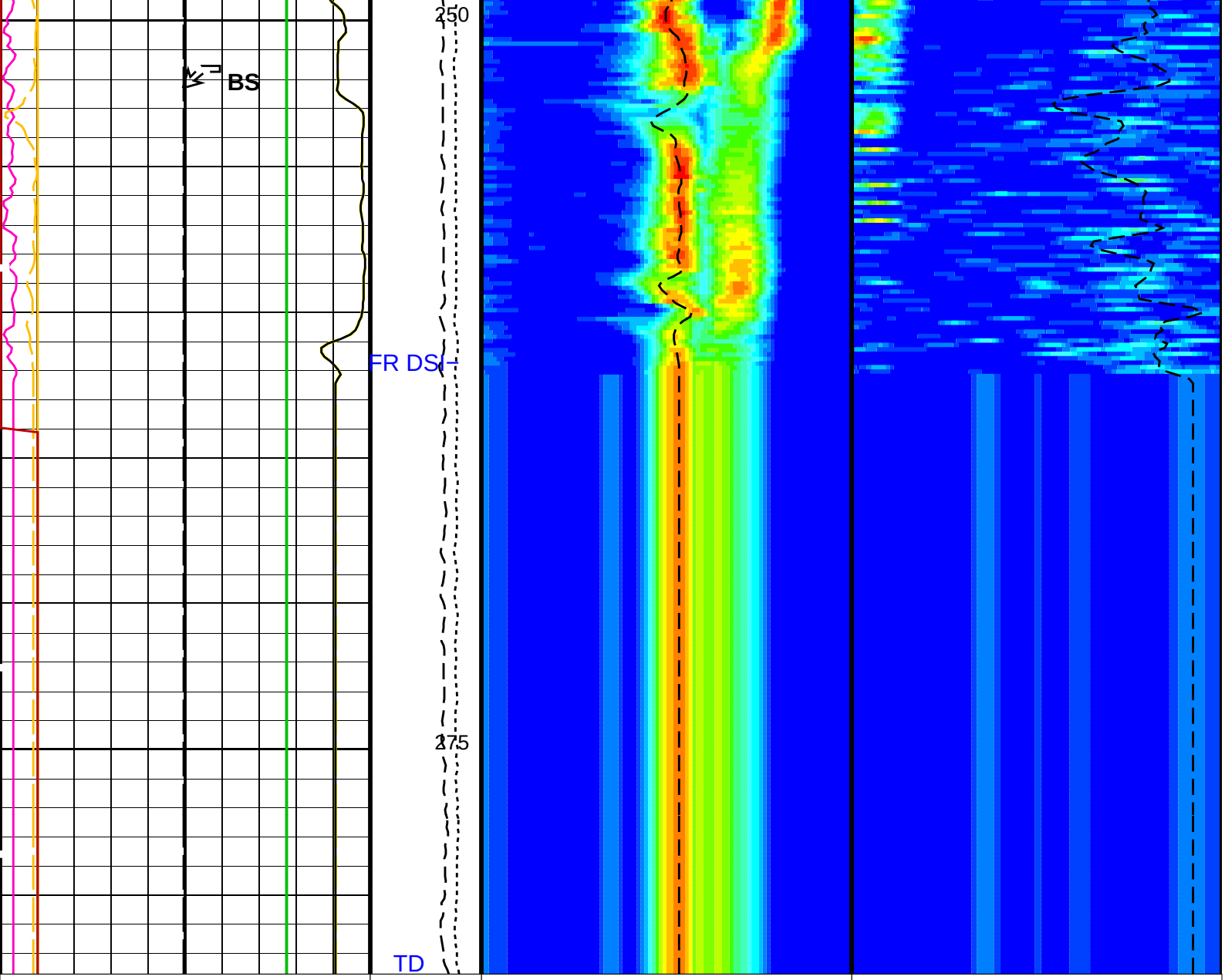
Delta−T Shear / RA − Upper Dipole (DT2R)
75 (US/F) 1200




Drill Pipe
Pull
100
125


150
175


TENS
GR_EDTC
PR
PR
200
225
WCI4
CHRS
CHRP
CHR2
FR GR
DTRP
DT2R
CDF



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
Poisson's Ratio (PR) 0 (−−−−) 0.5	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
Poisson's Ratio (PR) 0 (−−−−) 0.5		Min Amplitude Max Rec.Array P&S Slow Proj. CVDL (SPR4) 40 (US/F) 240	
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)			

2nd Pass, Sea Floor Depth Reference

(CHKS)

−1 (−−−−) 9

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

0 (−−−−) 10

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DIT−E: Dual Induction − E		
BHS	Borehole Status	OPEN	
	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	118	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	
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
TBE2	STC Time for Baseline Fill − Upper Dipole	0	US

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	
EDTC−B 8317: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−259.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jul−2013 16:56

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_028PUP	FN:30	PRODUCER	22−Jul−2013 16:51	541.8 M	303.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_031PUP	FN:33	PRODUCER	22−Jul−2013 16:56		

Company: Lamont Doherty Earth Observatory Well: Expedition 341, Site U1420A

Input DLIS Files

DEFAULT	PI_DSI_LDL_028PUP	FN:30	PRODUCER	22−Jul−2013 16:51	541.8 M	303.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_031PUP	FN:33	PRODUCER	22−Jul−2013 16:56	282.7 M	44.0 M

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

PIP SUMMARY

Time Mark Every 60 S

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

2nd Pass, Sea Floor Depth Reference

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

Bit Size (BS)
0 (IN) 20

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

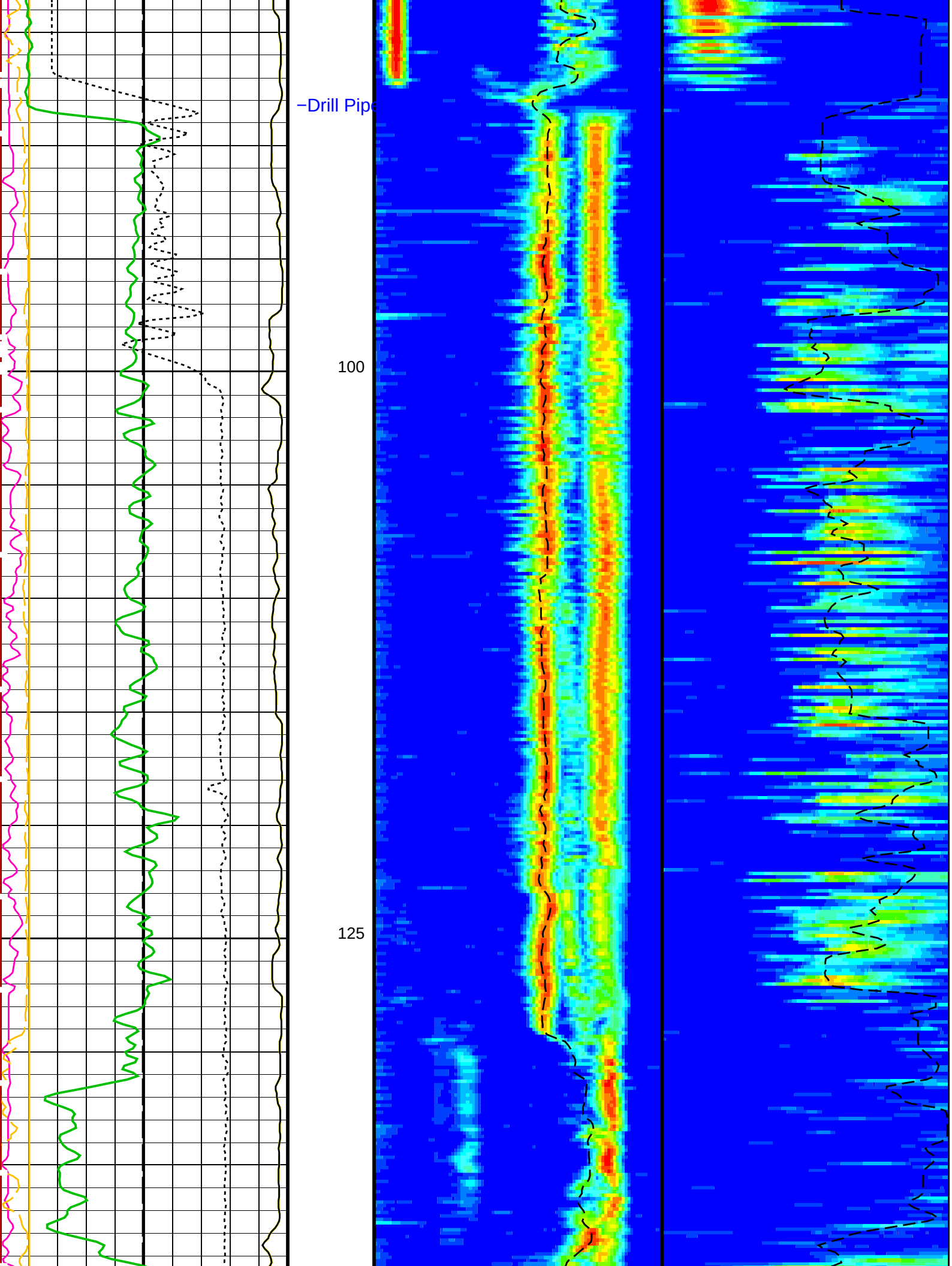
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

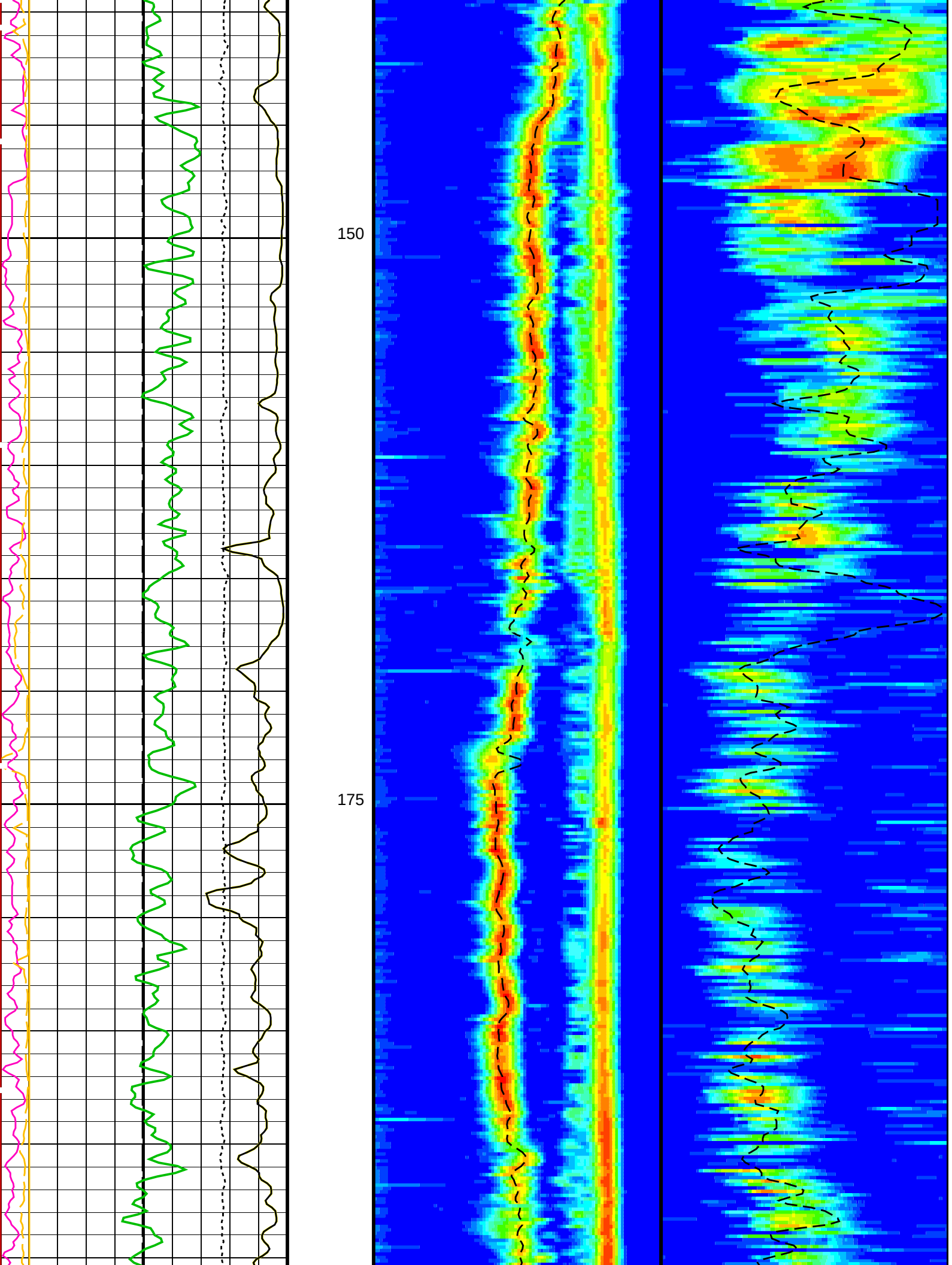
Delta-T Shear / RA - Lower Dipole (DT1R)
75 (US/F) 1200

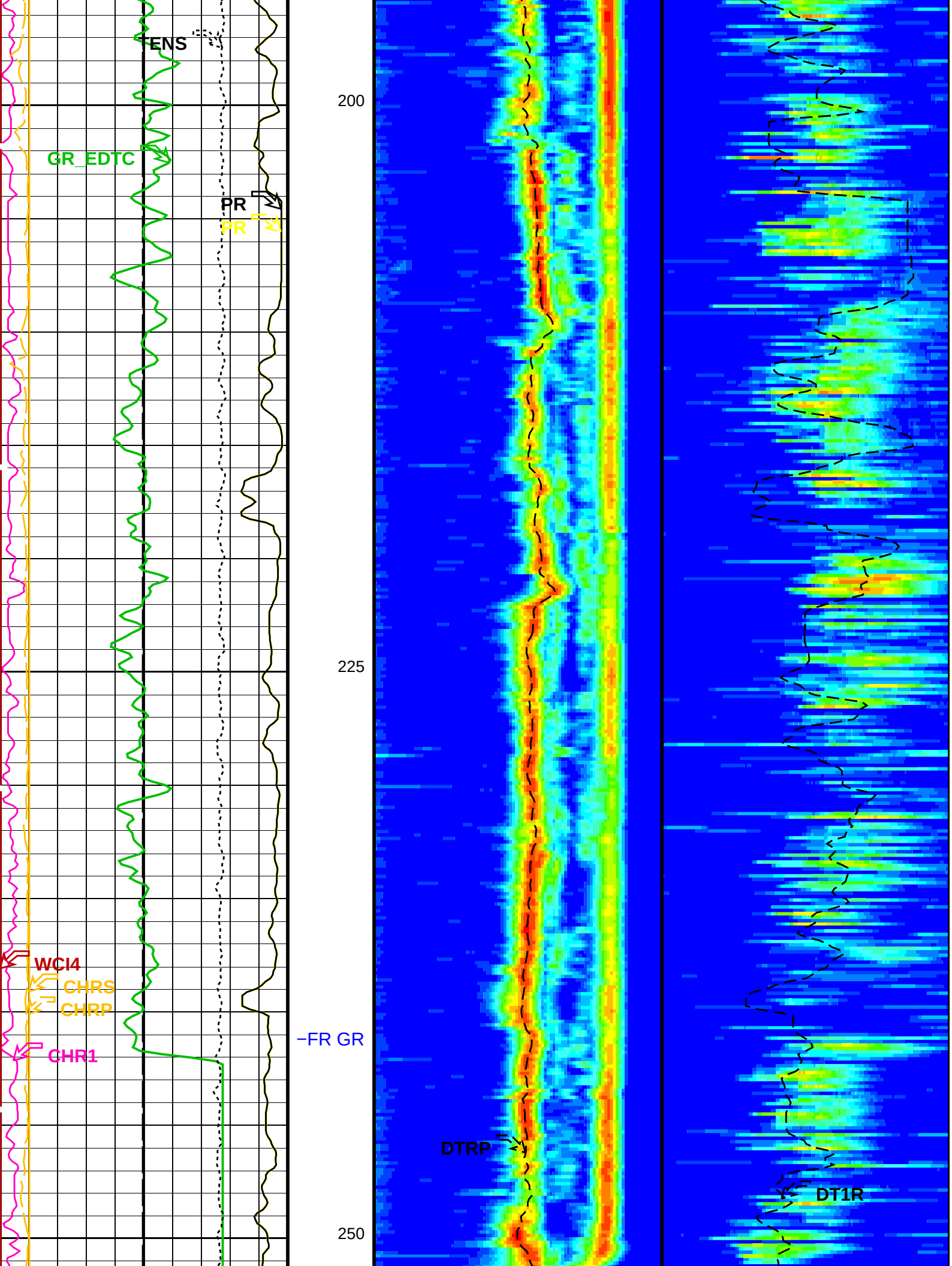
50

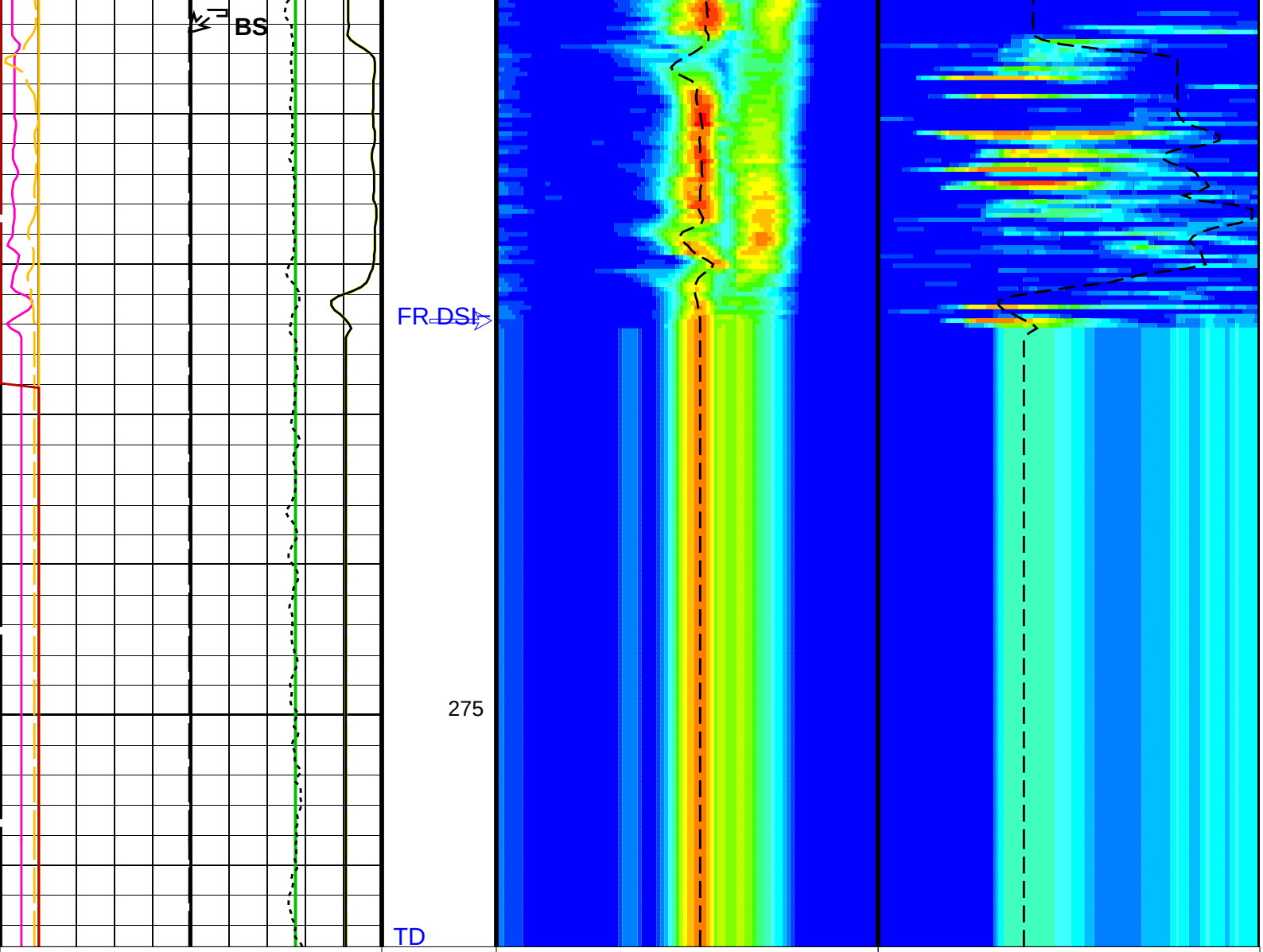
Last Reading

75


−Drill Pipe
100
125


150
175


ENS
GR_EDTC
PR
PR
200
225
250
WCI4
CHRS
CHRP
CHR1
−FR GR
DTRP
DT1R



Bit Size (BS)
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

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

2nd Pass, Sea Floor Depth Reference

1 (----) 5

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

0 (----) 10

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DIT−E: Dual Induction − E		
BHS	Borehole Status	OPEN	
	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	118	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	
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	
	EDTC−B 8317: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−259.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_LOWER_VDL_COLOR **Vertical Scale: 1:200** **Graphics File Created: 22−Jul−2013 16:56**

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_028PUP	FN:30	PRODUCER	22−Jul−2013 16:51	541.8 M	303.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_031PUP	FN:33	PRODUCER	22−Jul−2013 16:56

Company: Lamont Doherty Earth Observatory **Well: Expedition 341, Site U1420A**

Input DLIS Files

DEFAULT	PI_DSI_LDL_027PUP	FN:29	PRODUCER	22−Jul−2013 16:50	543.3 M	361.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_030PUP	FN:32	PRODUCER	22−Jul−2013 16:55	284.2 M	102.1 M

OP System Version: 19C0−187

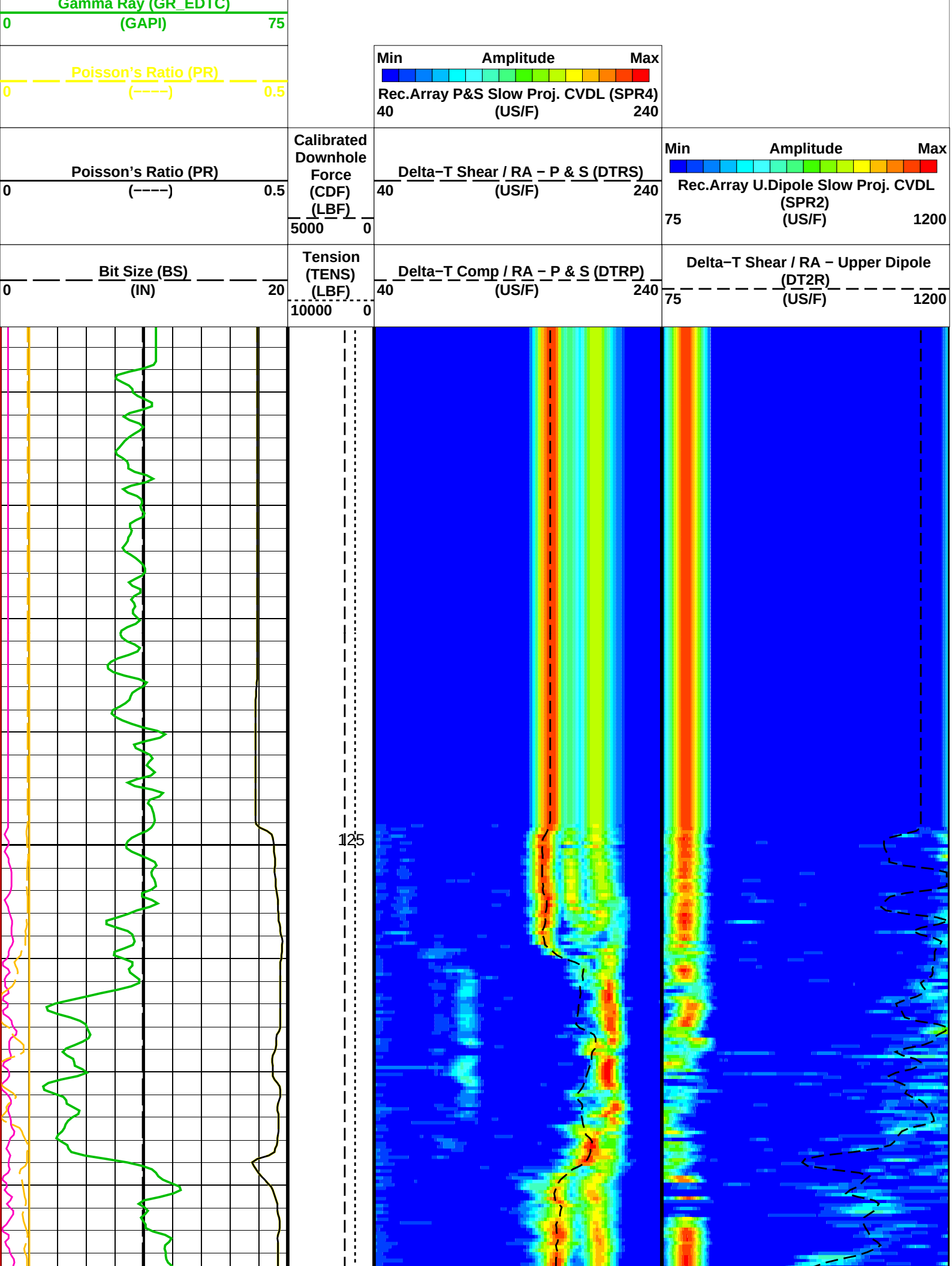
DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

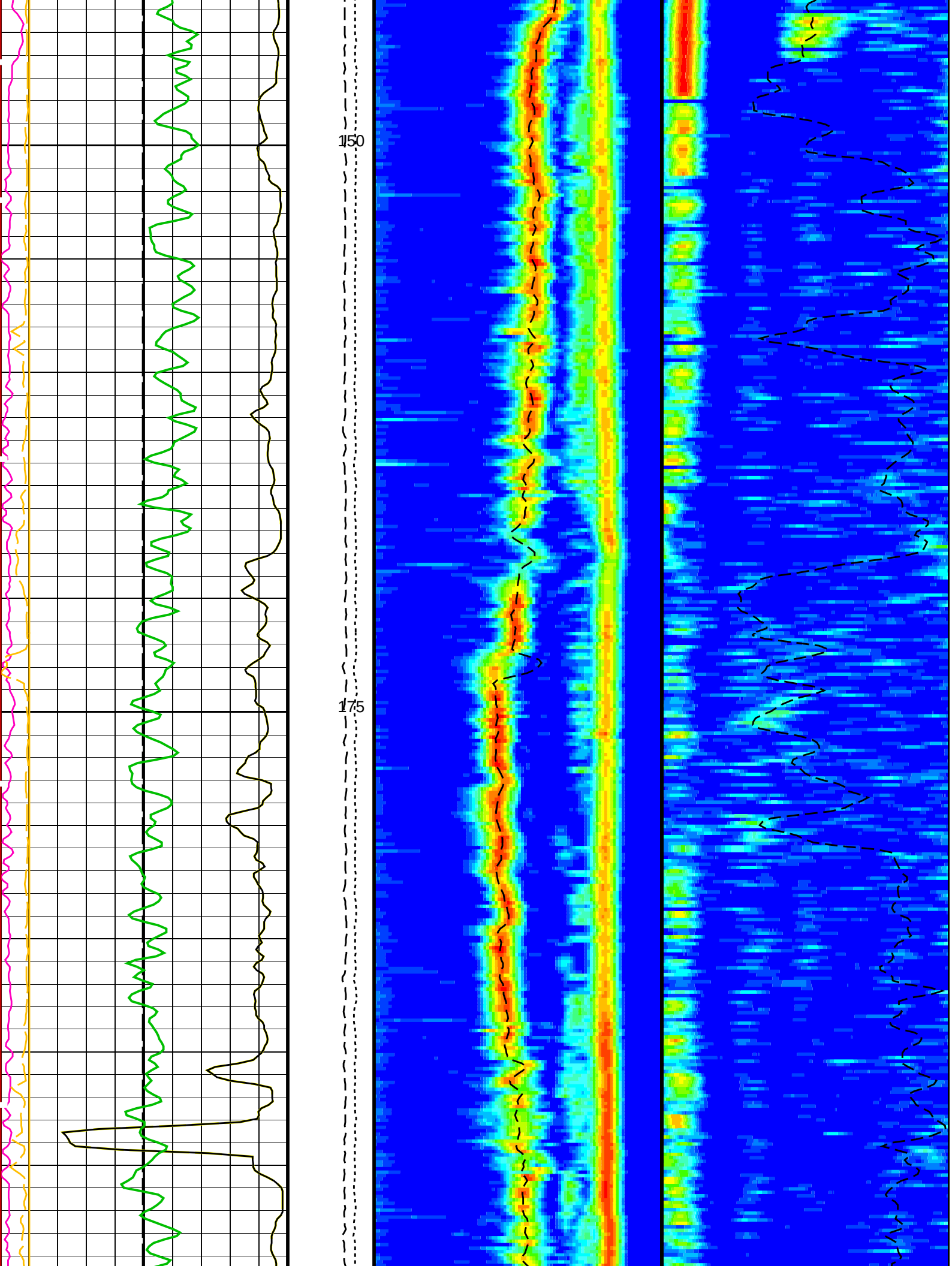
PIP SUMMARY

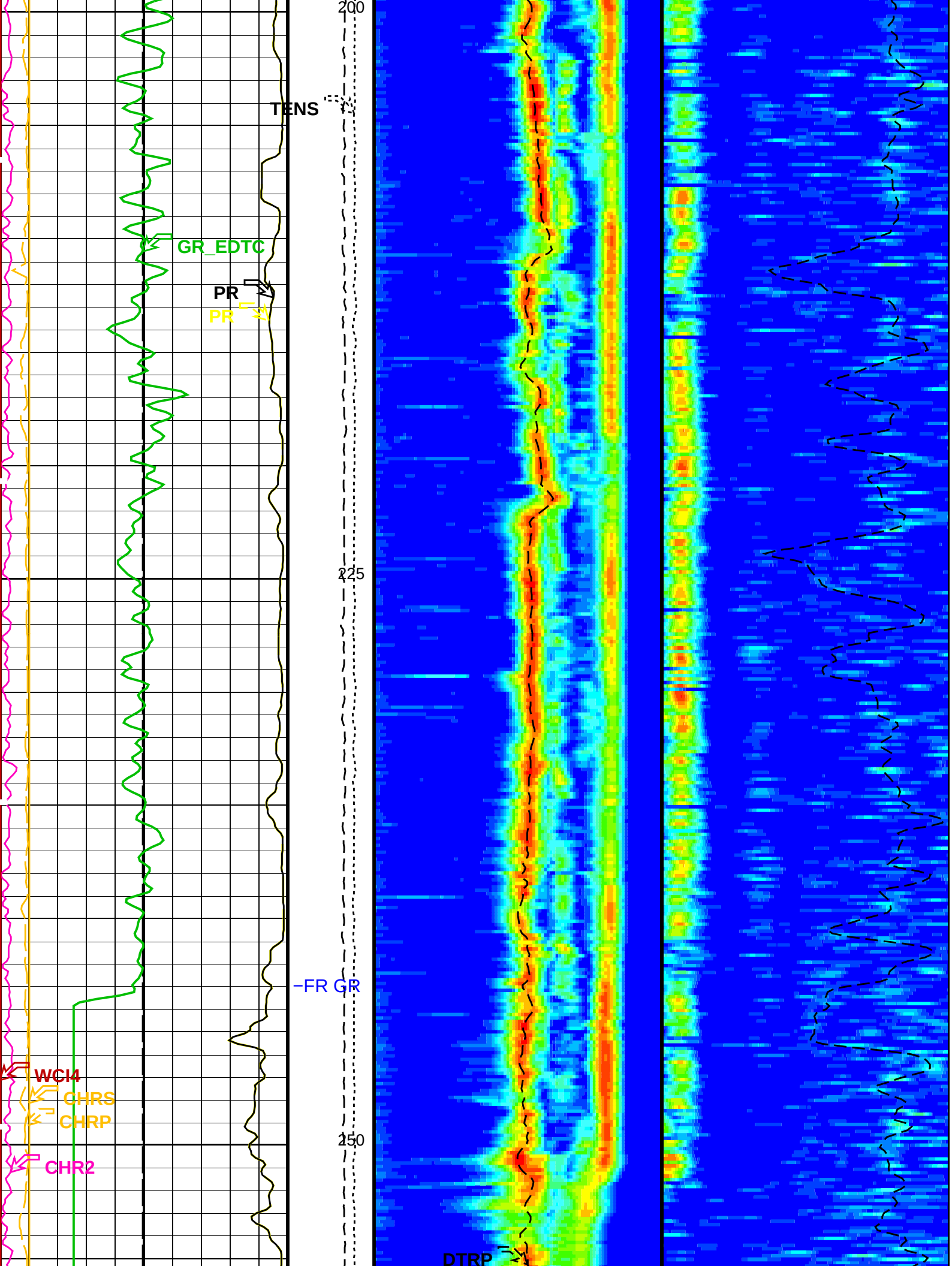
Time Mark Every 60 S

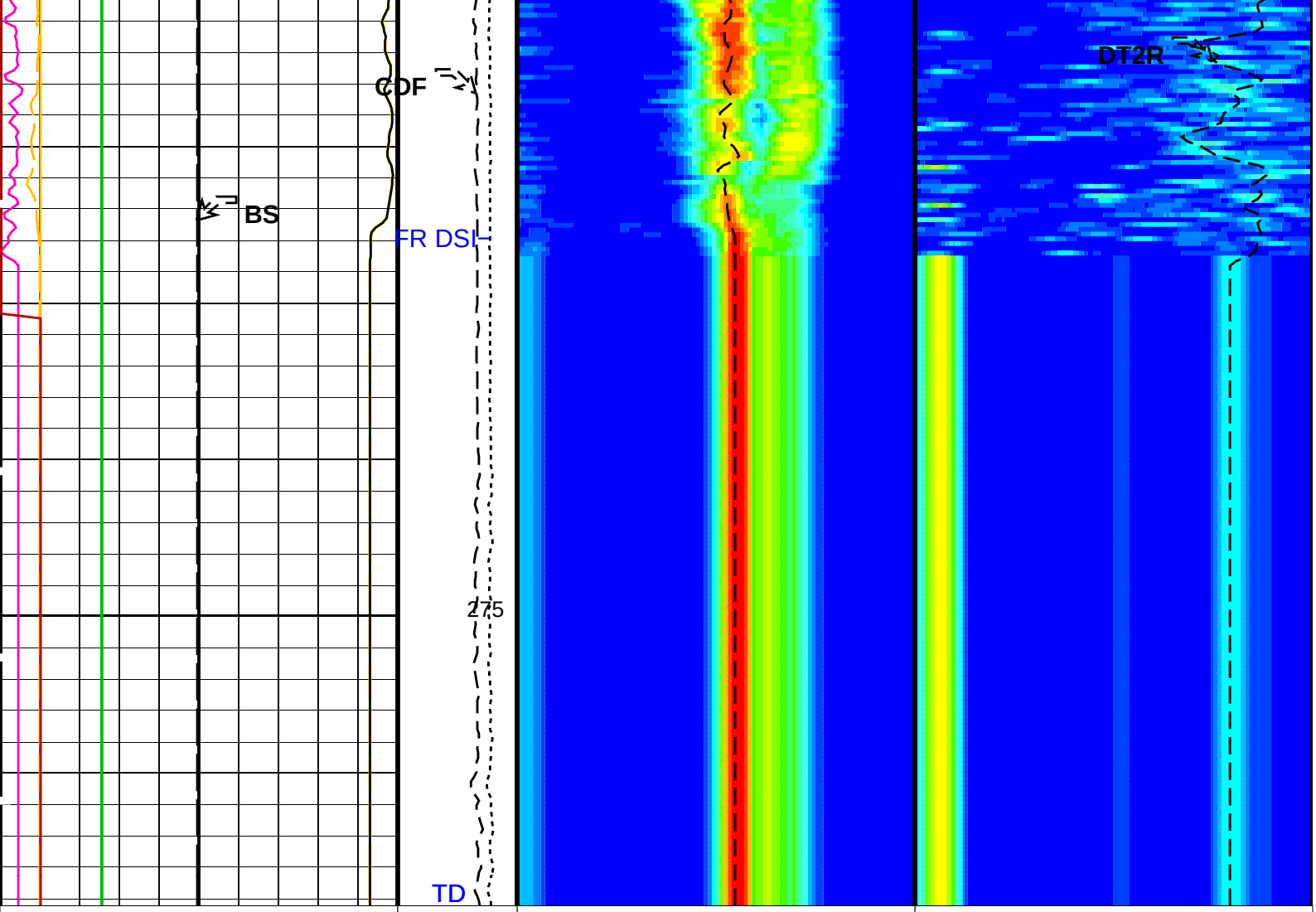
Waveform Data Copy Indicator 4 − Monopole P&S (WCI4)		
0	(−−−−)	10
Peak Coherence / RA − P & S Shear (CHRS)		
−1	(−−−−)	9
Peak Coherence / RA − P & S Comp (CHRP)		
0	(−−−−)	10
Peak Coherence / RA − Upper Dipole (CHR2)		
0	(−−−−)	10

1st Pass, Sea Floor Depth Reference


Gamma Ray (GR_EDTC)
0
(GAPI)
75
Poisson's Ratio (PR)
0
(----)
0.5
Min
Amplitude
Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40
(US/F)
240
Poisson's Ratio (PR)
0
(----)
0.5
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
125


150
175


200
TENS
GR_EDTC
PR
PR
225
FR GR
WCI4
CHRS
CHRP
CHR2
250
DTRP



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

1st Pass, Sea Floor Depth Reference

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DIT−E: Dual Induction − E		
BHS	Borehole Status	OPEN	
	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	118	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	
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		
	EDTC−B 8317: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN		
	System and Miscellaneous			
BS	Bit Size	9.875	IN	
DO	Depth Offset for Playback	−259.0	M	
PP	Playback Processing	OFF		

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jul−2013 16:55

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_027PUP	FN:29	PRODUCER	22−Jul−2013 16:50	543.3 M	361.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_030PUP	FN:32	PRODUCER	22−Jul−2013 16:55		

Company: Lamont Doherty Earth Observatory Well: Expedition 341, Site U1420A

Input DLIS Files

DEFAULT	PI_DSI_LDL_027PUP	FN:29	PRODUCER	22−Jul−2013 16:50	543.3 M	361.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_030PUP	FN:32	PRODUCER	22−Jul−2013 16:55	284.2 M	102.1 M

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

PIP SUMMARY

Time Mark Every 60 S

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

1st Pass, Sea Floor Depth Reference

Tension (TENS)
10000 (LBF) 0

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

Bit Size (BS)
0 (IN) 20

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

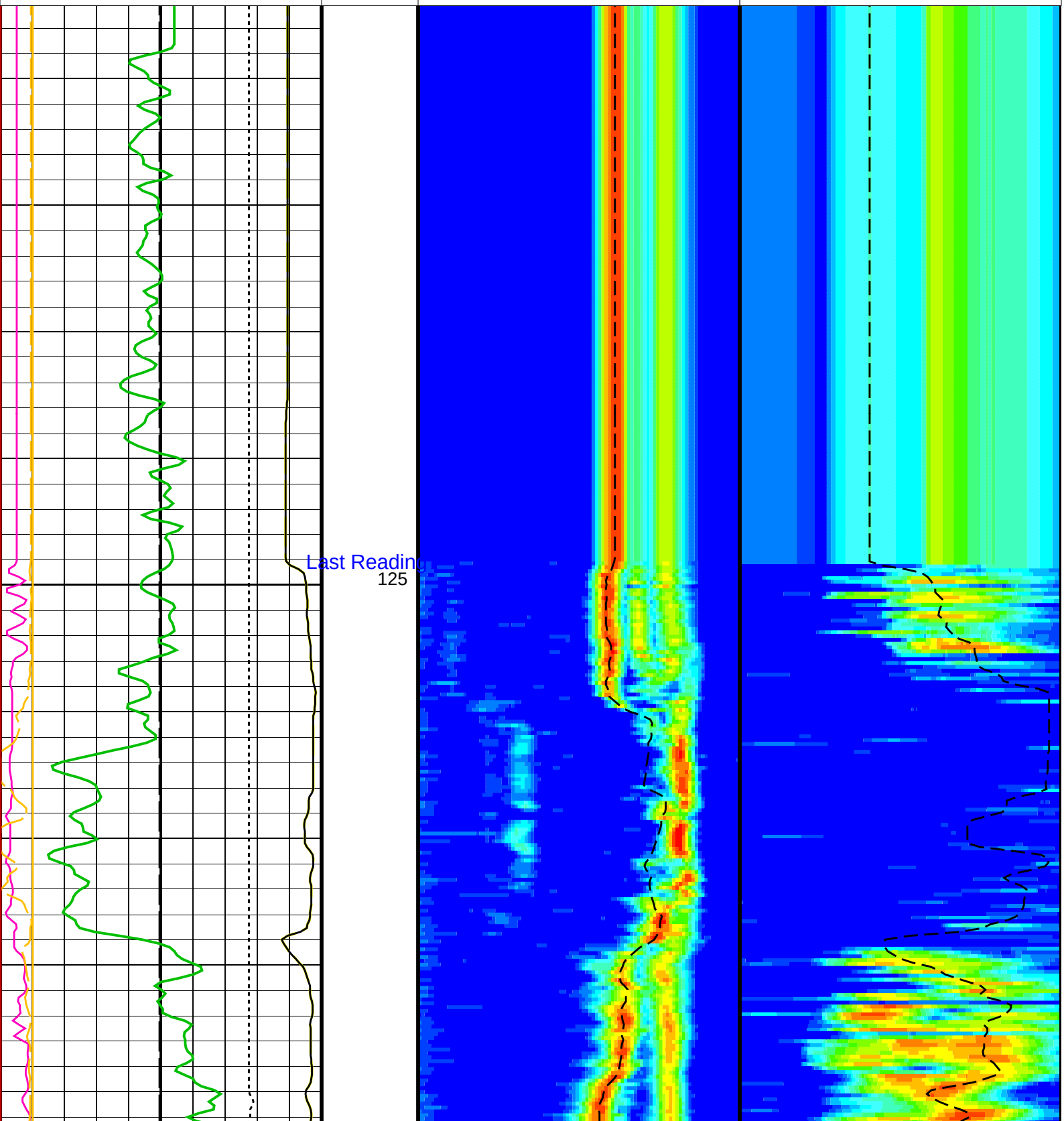
Delta-T Shear / RA - P & S (DTRS)
40 (US/F) 240

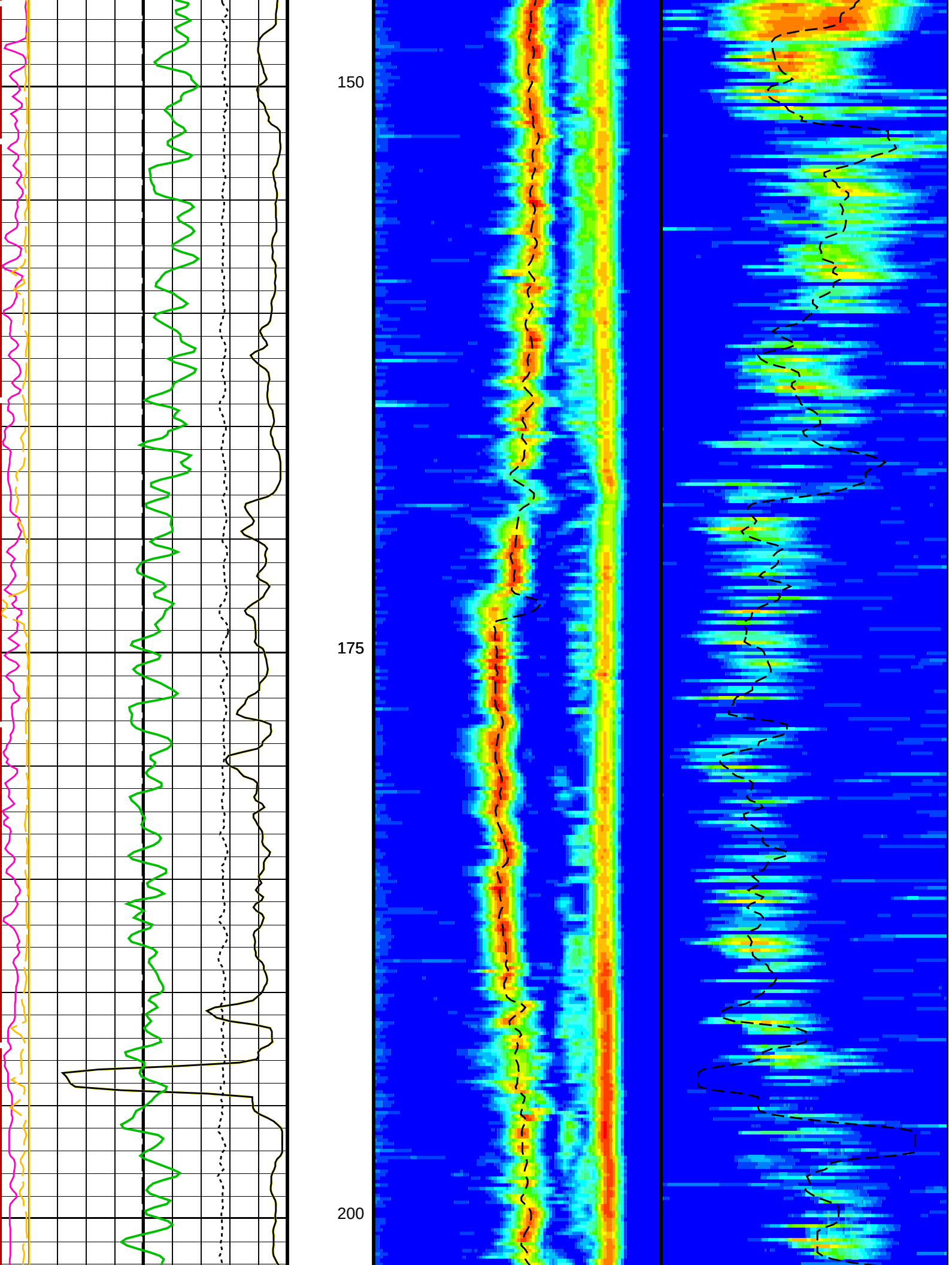
Delta-T Comp / RA - P & S (DTRP)
40 (US/F) 240

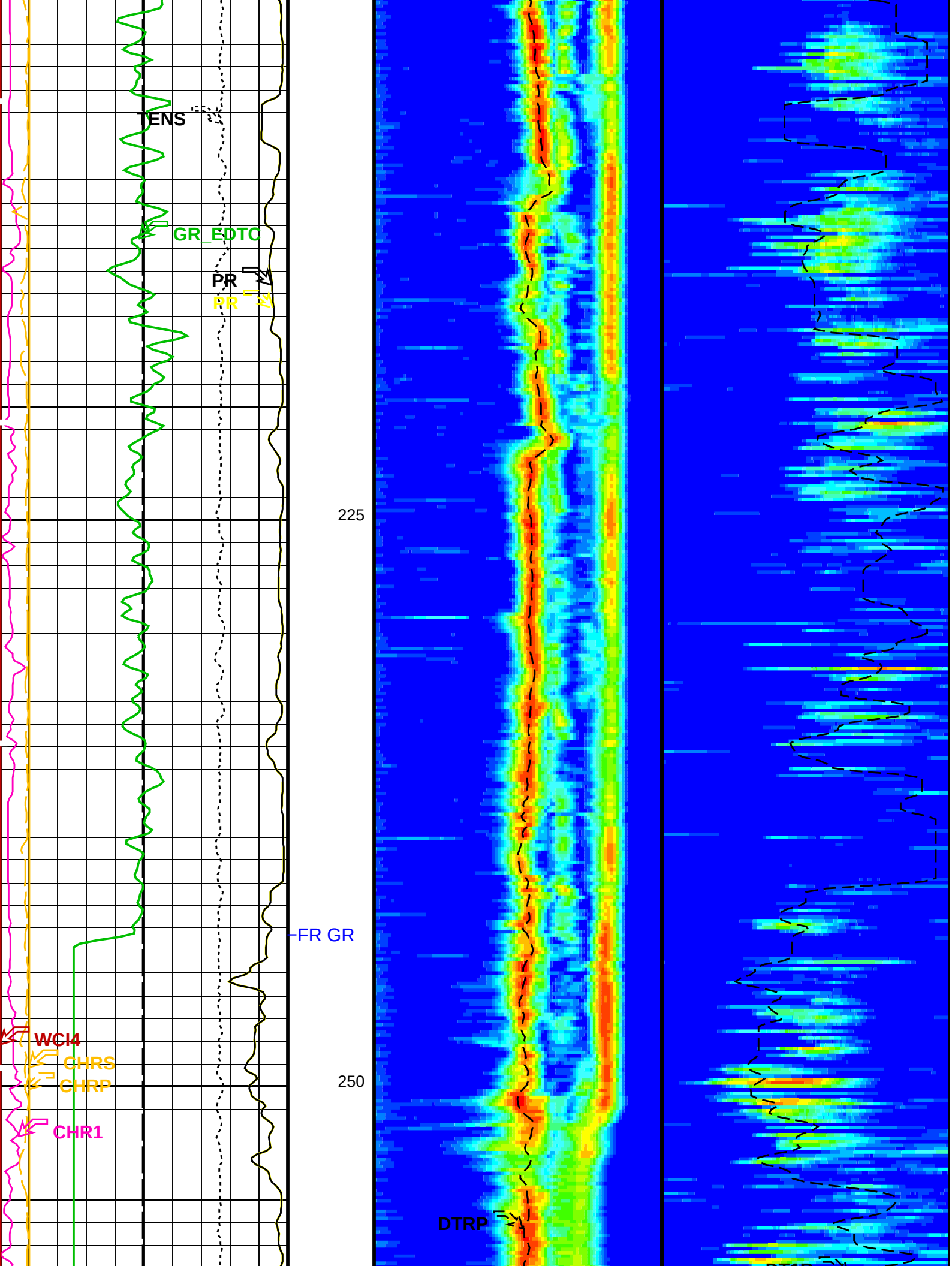
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

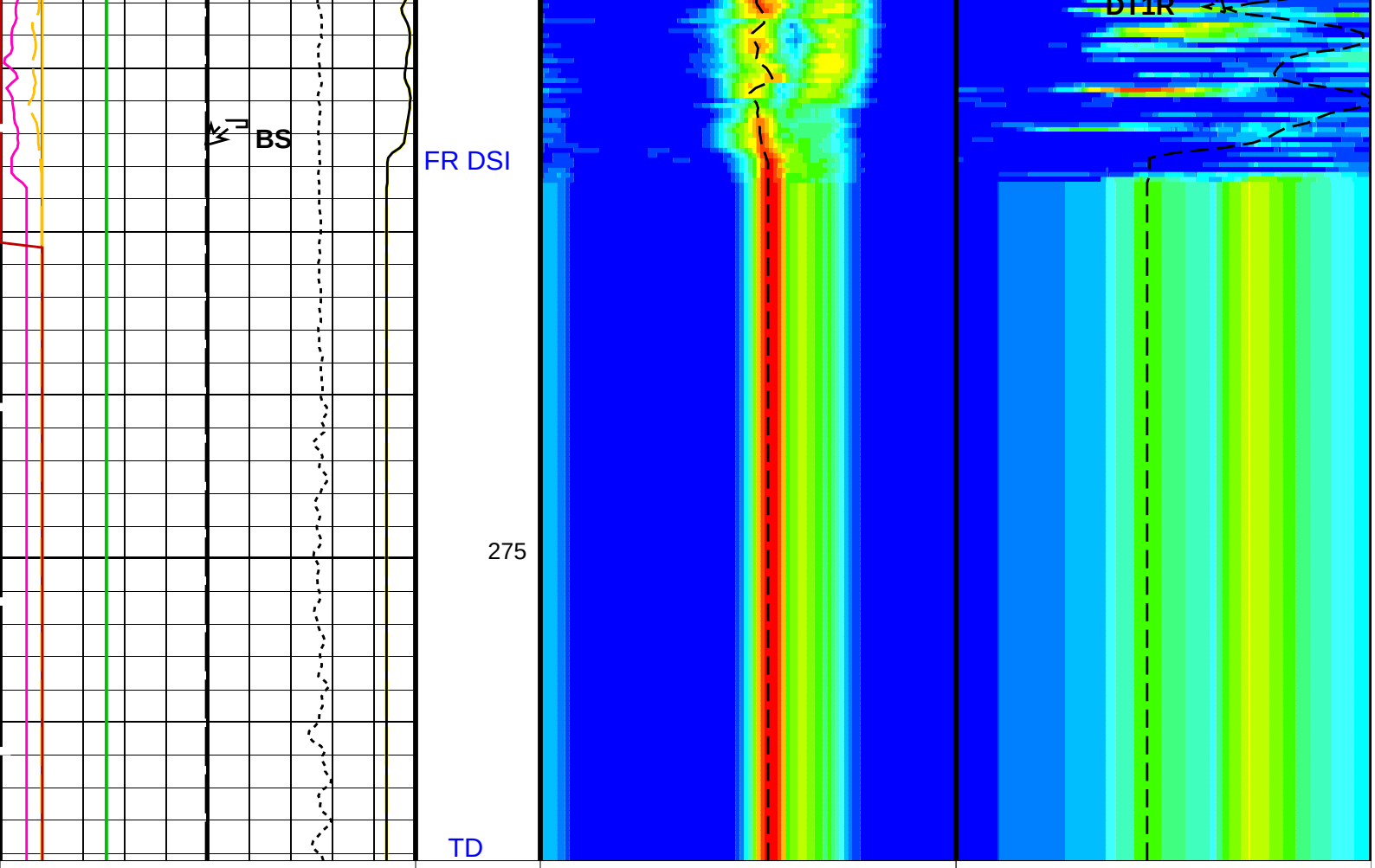
Delta-T Shear / RA - Lower Dipole (DT1R)
75 (US/F) 1200

Last Reading
125




150
175
200


TENS
GR_EDTC
PR
PR
225
FR GR
WCI4
CHRS
CHRP
250
CHR1
DTRP



Bit Size (BS) 0 (IN) 20	**Delta−T Comp / RA − P & S (DTRP)** 40 (US/F) 240	**Delta−T Shear / RA − Lower Dipole (DT1R)** 75 (US/F) 1200
Poisson's Ratio (PR) 0 (−−−−) 0.5	**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
Tension (TENS) 10000 (LBF) 0	Min Amplitude Max **Rec.Array P&S Slow Proj. CVDL (SPR4)** 40 (US/F) 240	
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		

1st Pass, Sea Floor Depth Reference

PIP SUMMARY

Parameters

DLIS Name	Description	Value	
	DIT−E: Dual Induction − E		
BHS	Borehole Status	OPEN	
	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	118	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	
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	
	EDTC−B 8317: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−259.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_LOWER_VDL_COLOR **Vertical Scale: 1:200** **Graphics File Created: 22−Jul−2013 16:55**

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_027PUP	FN:29	PRODUCER	22−Jul−2013 16:50	543.3 M	361.0 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_030PUP	FN:32	PRODUCER	22−Jul−2013 16:55		

Company: Lamont Doherty Earth Observatory **Well: Expedition 341, Site U1420A**

Input DLIS Files

DEFAULT	PI_DSI_LDL_026PUP	FN:28	PRODUCER	22−Jul−2013 16:48	547.1 M	162.3 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_029PUP	FN:31	PRODUCER	22−Jul−2013 16:54	288.0 M	−96.6 M

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

PIP SUMMARY

Time Mark Every 60 S

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

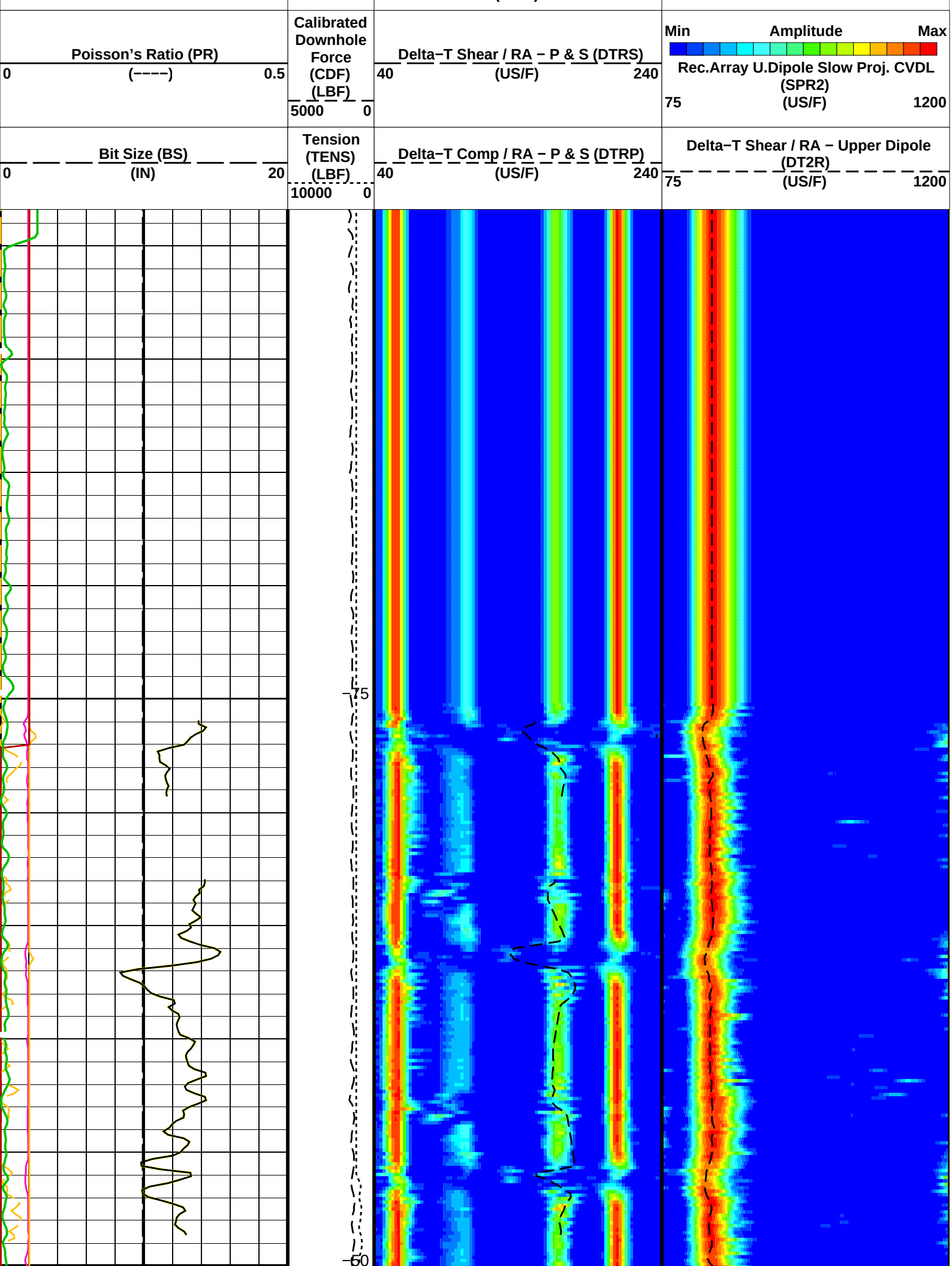
Poisson's Ratio (PR)
0 (−−−−) 0.5

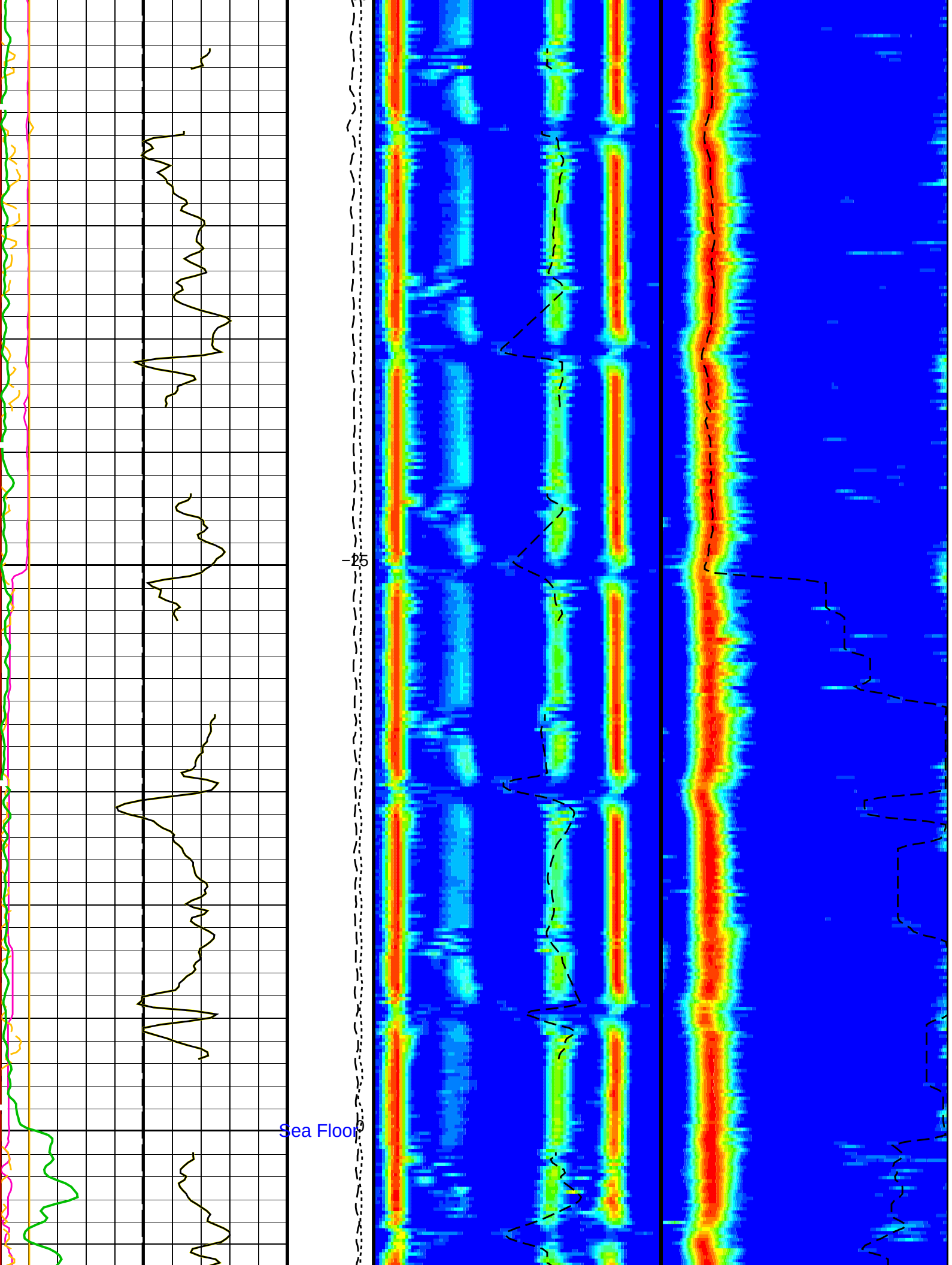
Sea Floor Depth Reference

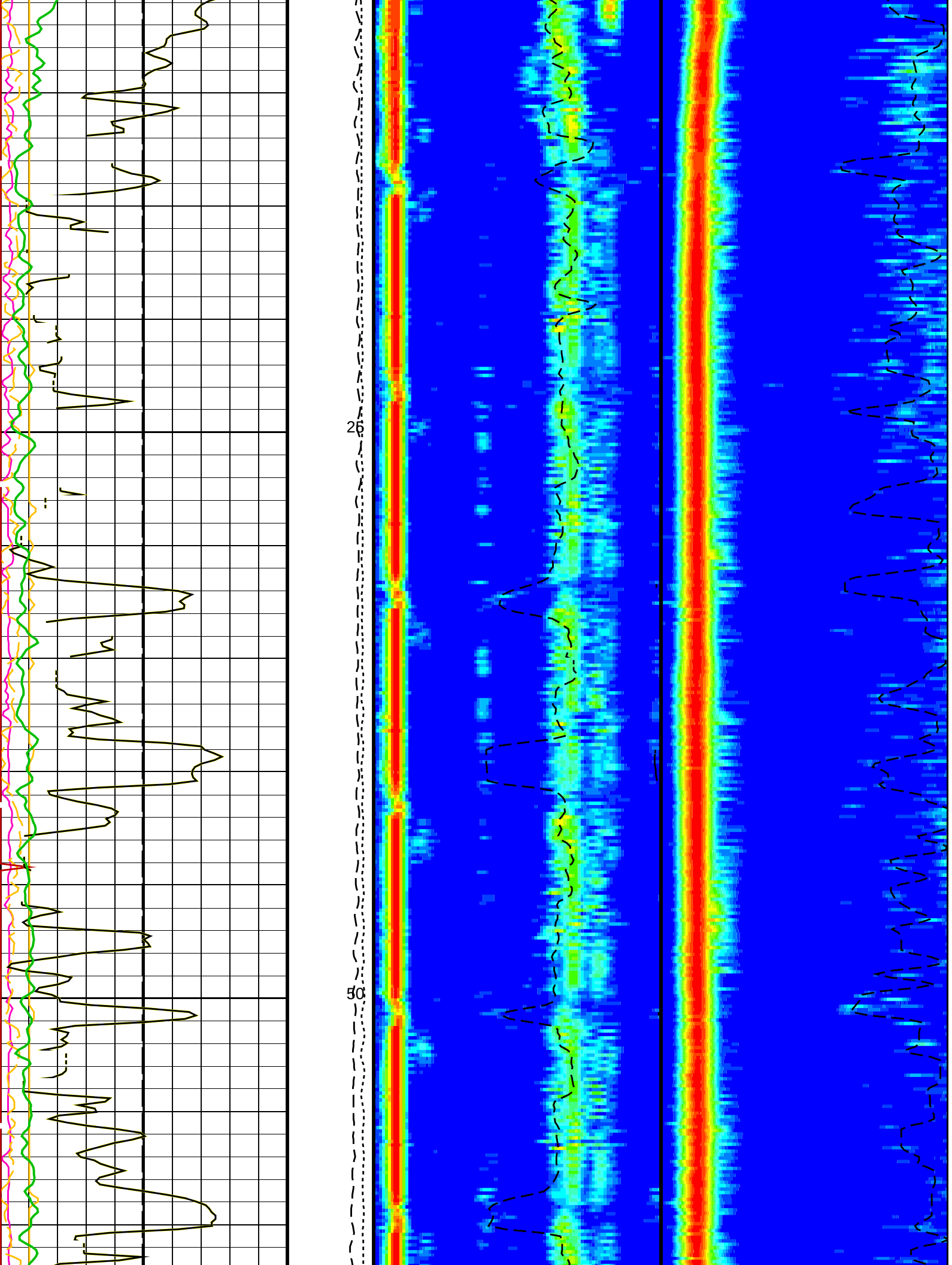
Flipped Downlog

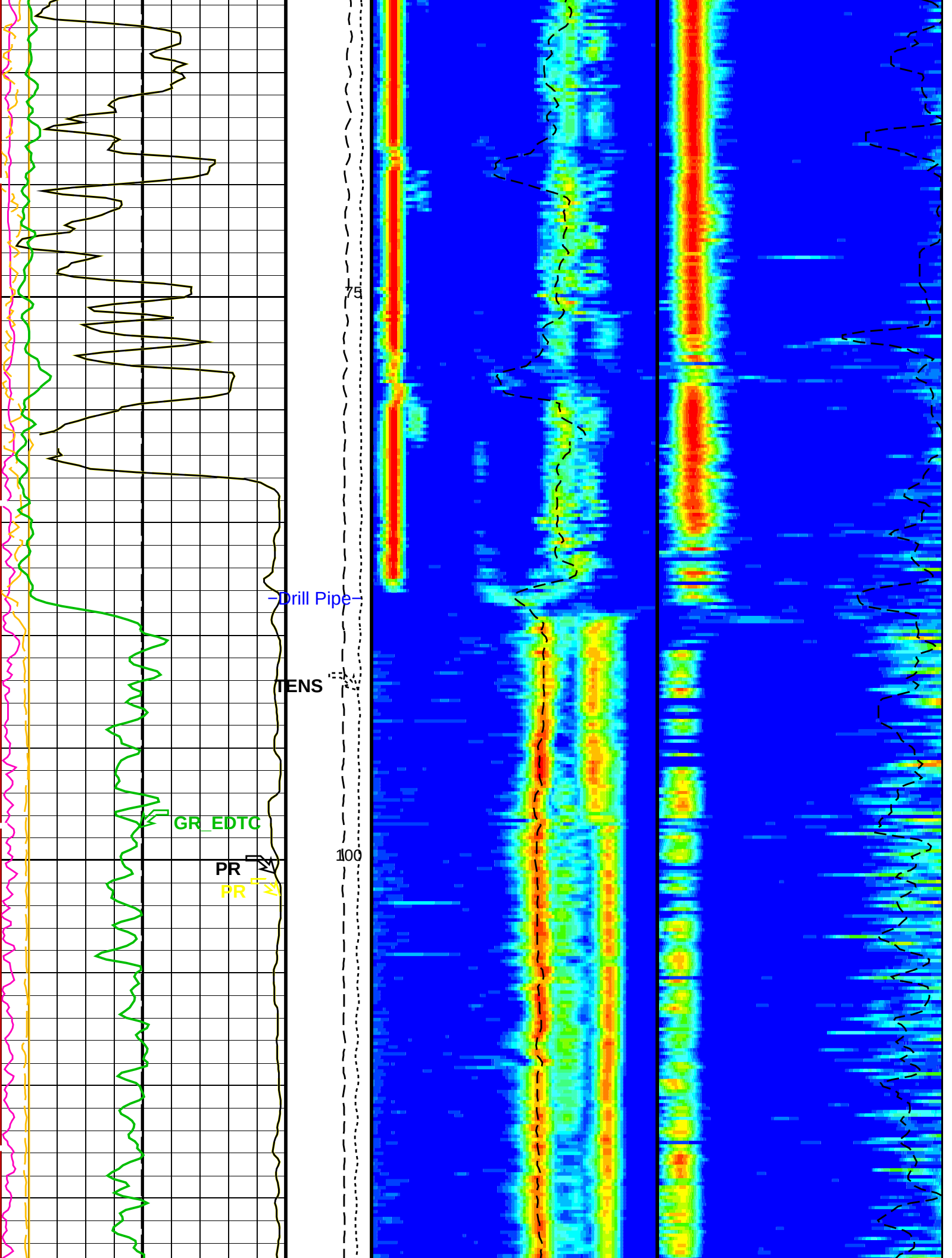
Min Amplitude Max

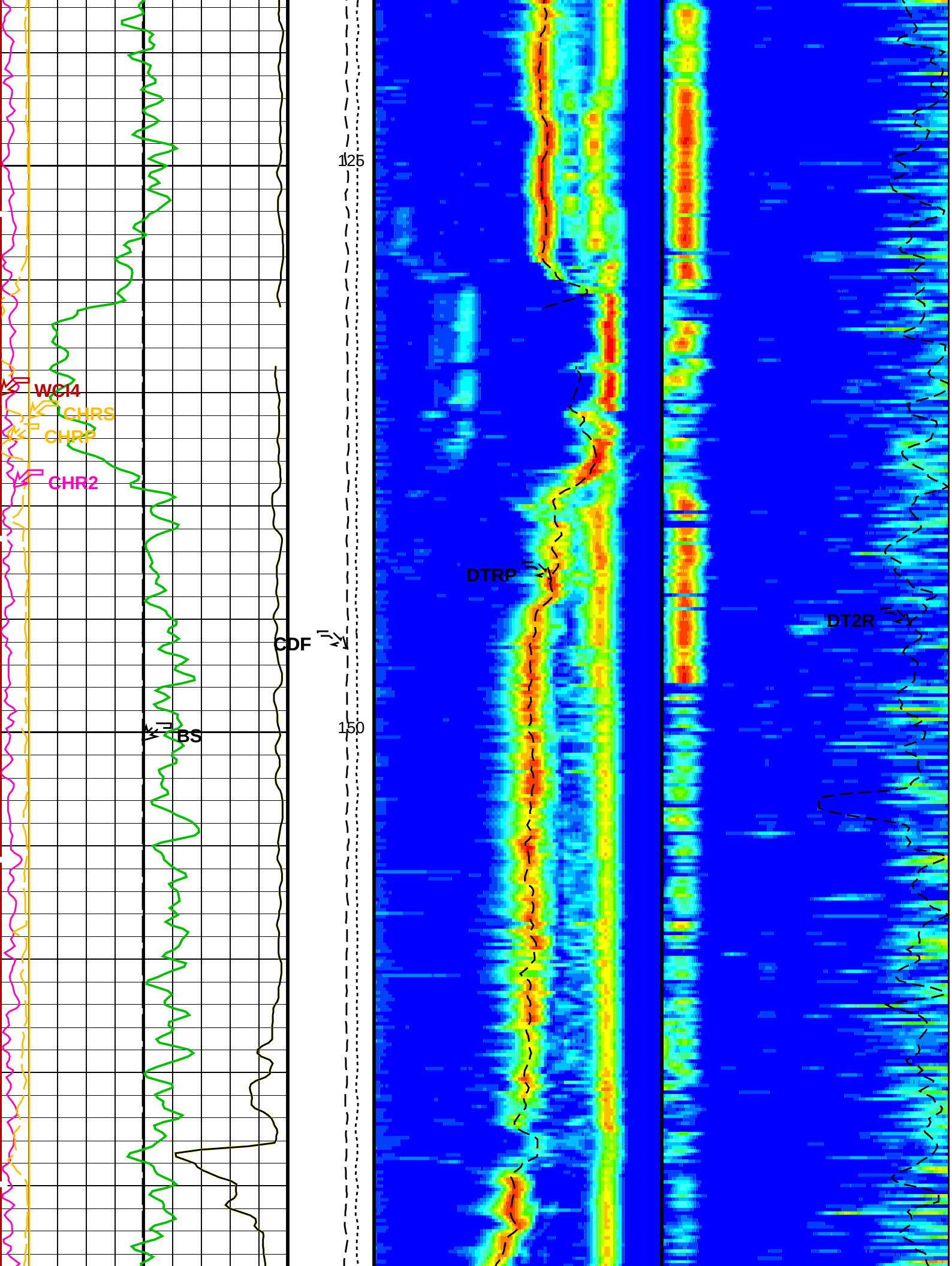
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

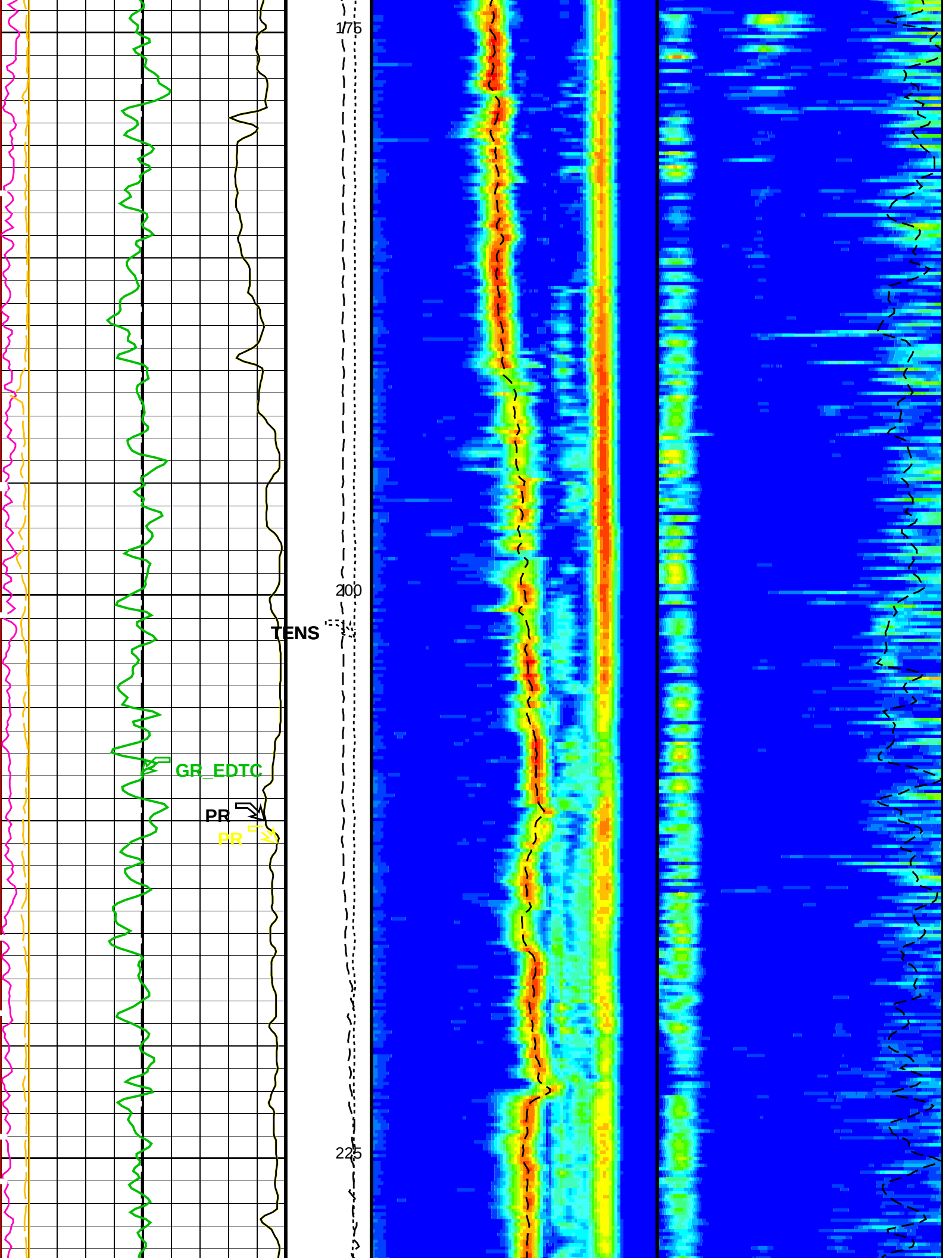

Poisson's Ratio (PR)
0
(----)
0.5
Calibrated Downhole Force (CDF) (LBF)
5000
0
Delta-T Shear / RA - P & S (DTRS)
40
(US/F)
240
Min
Amplitude
Max
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75
(US/F)
1200
Bit Size (BS)
0
(IN)
20
Tension (TENS) (LBF)
10000
0
Delta-T Comp / RA - P & S (DTRP)
40
(US/F)
240
Delta-T Shear / RA - Upper Dipole (DT2R)
75
(US/F)
1200
75
50

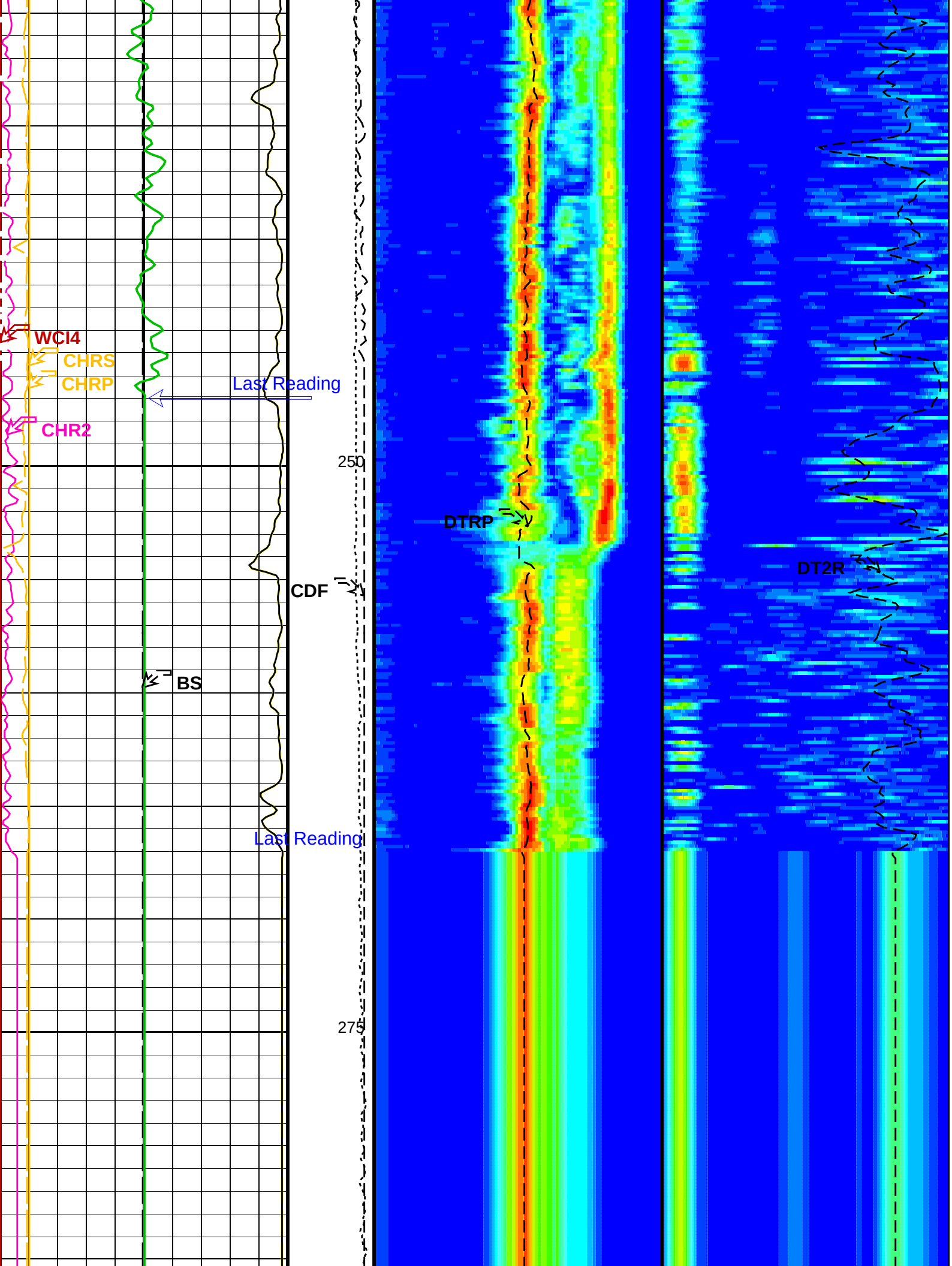

25
Sea Floor

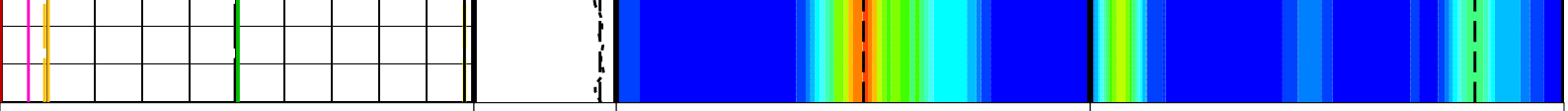

25
50


75
Drill Pipe
TENS
GR_EDTC
100
PR
PR


125
150
WCI4
CHRS
CHRP
CHR2
CDF
BS
DTRP
DT2R


175
200
TENS
GR_EDTC
PR
PR
225


WCI4
CHRS
CHRP
CHR2
Last Reading
250
DTRP
CDF
BS
DT2R
Last Reading
275



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

Poisson's Ratio (PR)
0 (−−−−) 0.5

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

Poisson's Ratio (PR)
0 (−−−−) 0.5

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

Gamma Ray (GR_EDTC)
0 (GAPI) 75

Flipped Downlog

Sea Floor Depth Reference

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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DIT−E: Dual Induction − E		
BHS	Borehole Status	OPEN	
	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	118	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	
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	
	EDTC−B 8317: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−259.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_UPPER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jul−2013 16:54

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_026PUP	FN:28	PRODUCER	22−Jul−2013 16:48	547.1 M	162.3 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_029PUP	FN:31	PRODUCER	22−Jul−2013 16:54

Company: Lamont Doherty Earth Observatory Well: Expedition 341, Site U1420A

Input DLIS Files

Input DLIS Files

DEFAULT	PI_DSI_LDL_026PUP	FN:28	PRODUCER	22−Jul−2013 16:48	547.1 M	162.3 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_029PUP	FN:31	PRODUCER	22−Jul−2013 16:54	288.0 M	−96.6 M

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

PIP SUMMARY

Time Mark Every 60 S

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

Bit Size (BS)
0 (IN) 20

Sea Floor Depth Reference

Flipped Downlog

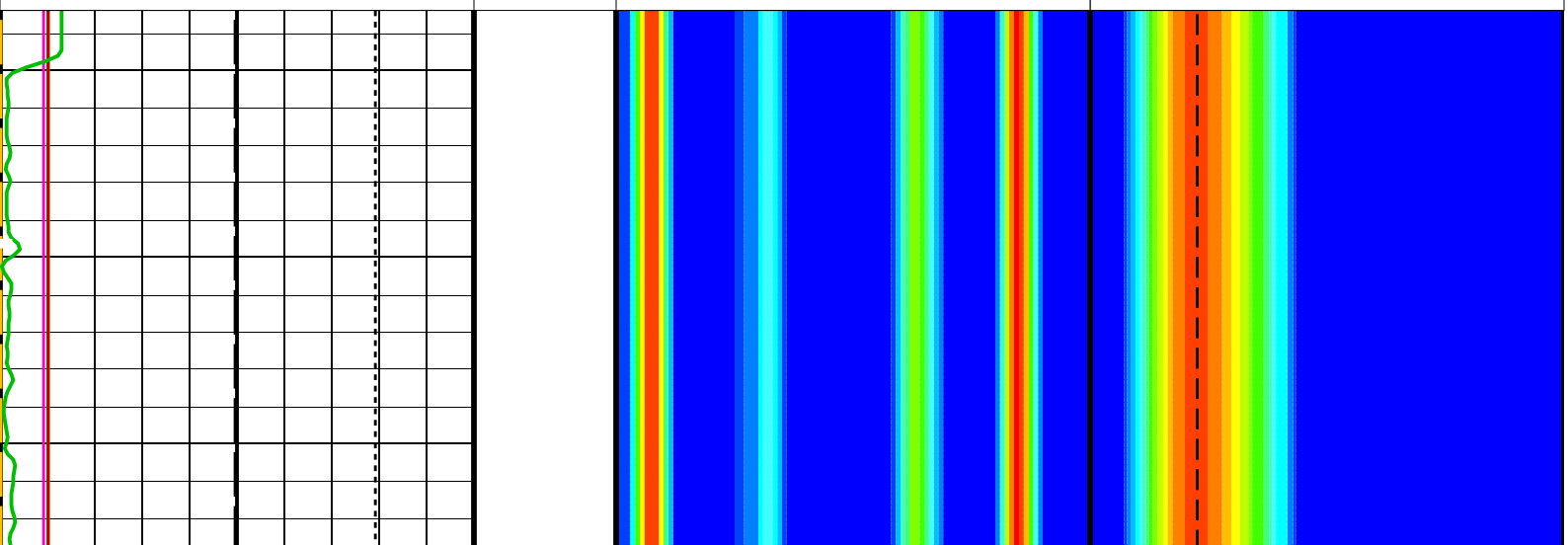
Min Amplitude Max
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

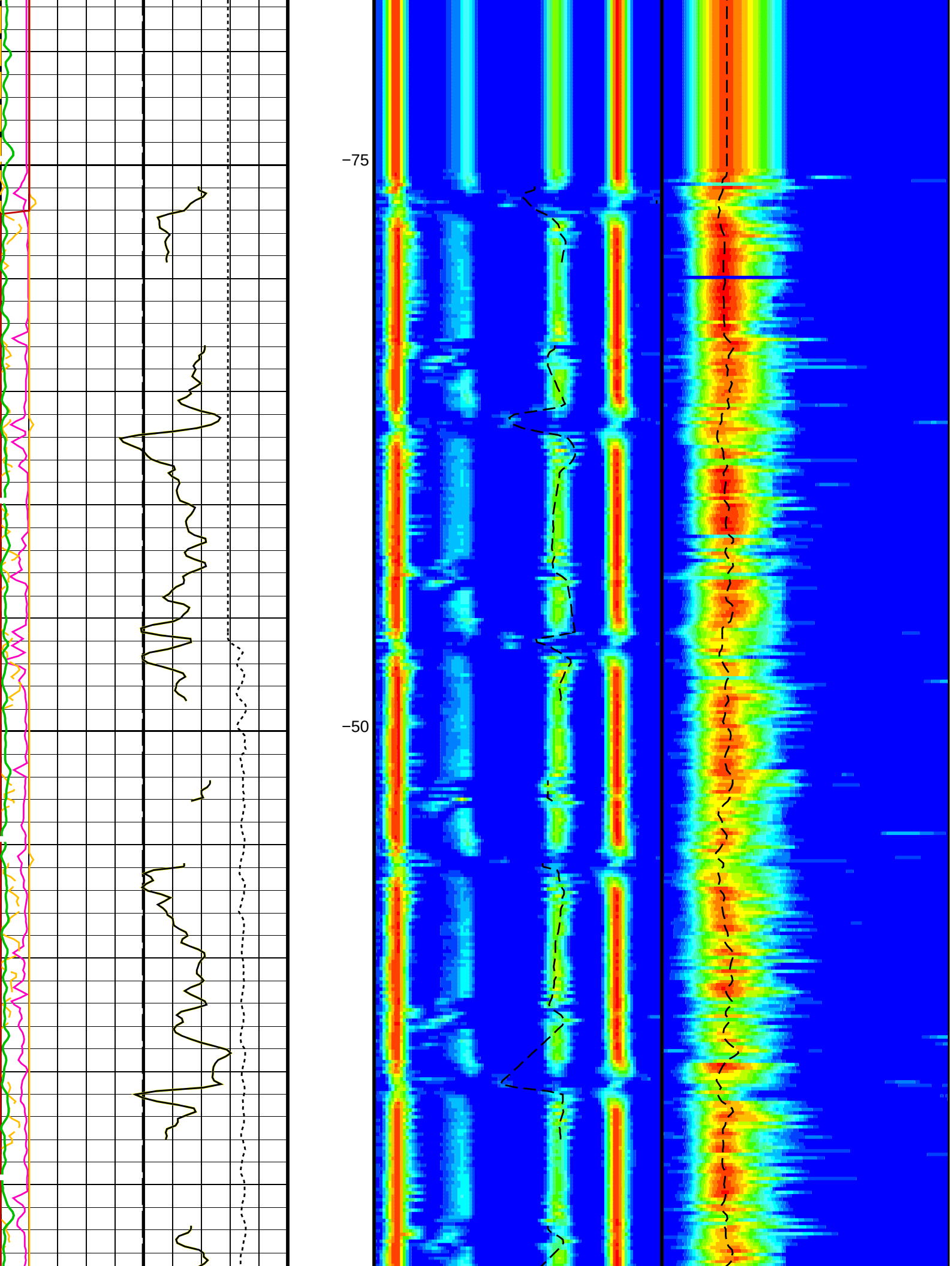
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

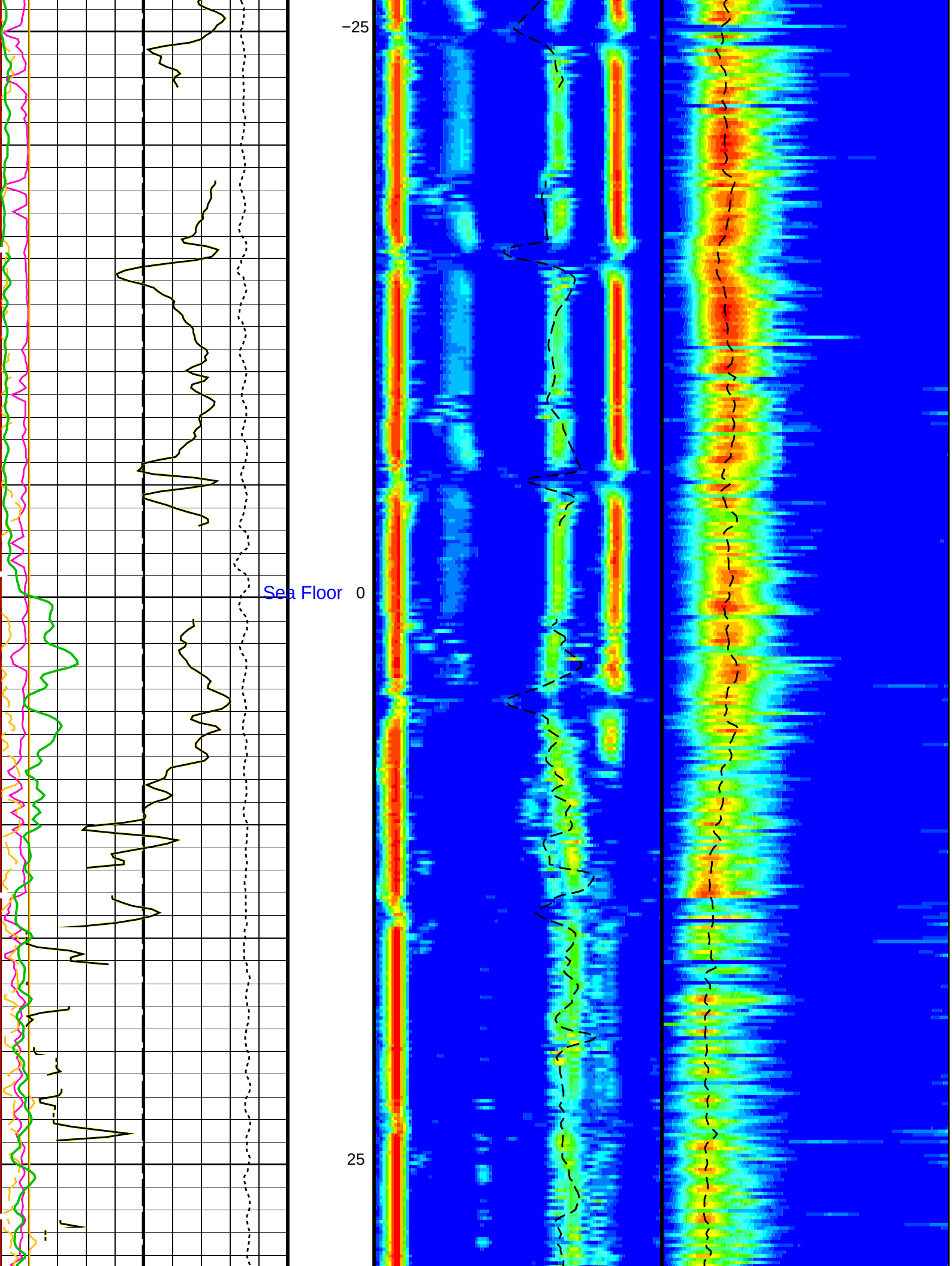
Min Amplitude Max
Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
75 (US/F) 1200

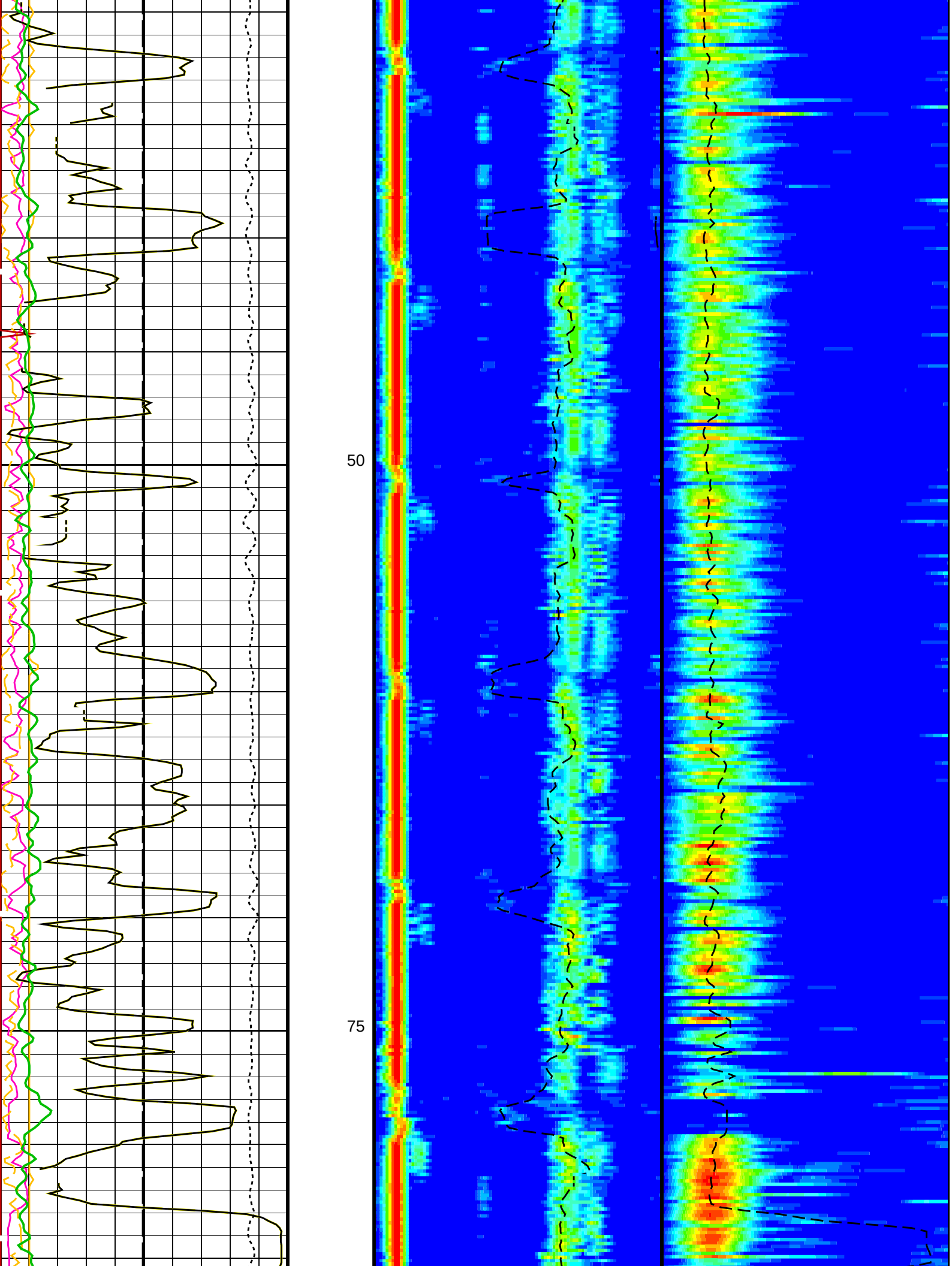
Delta−T Comp / RA − P & S (DTRP)
40 (US/F) 240

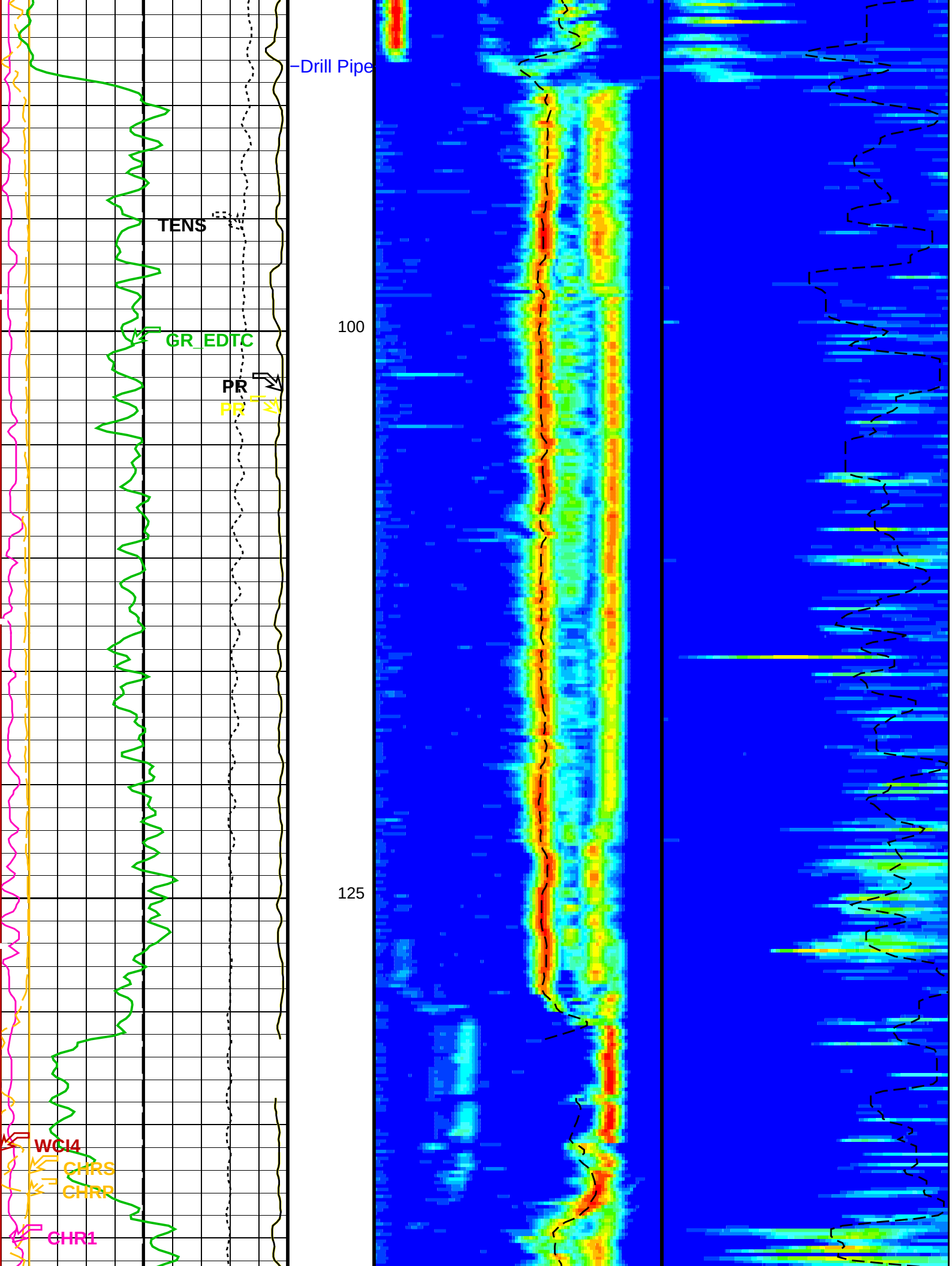
Delta−T Shear / RA − Lower Dipole (DT1R)
75 (US/F) 1200

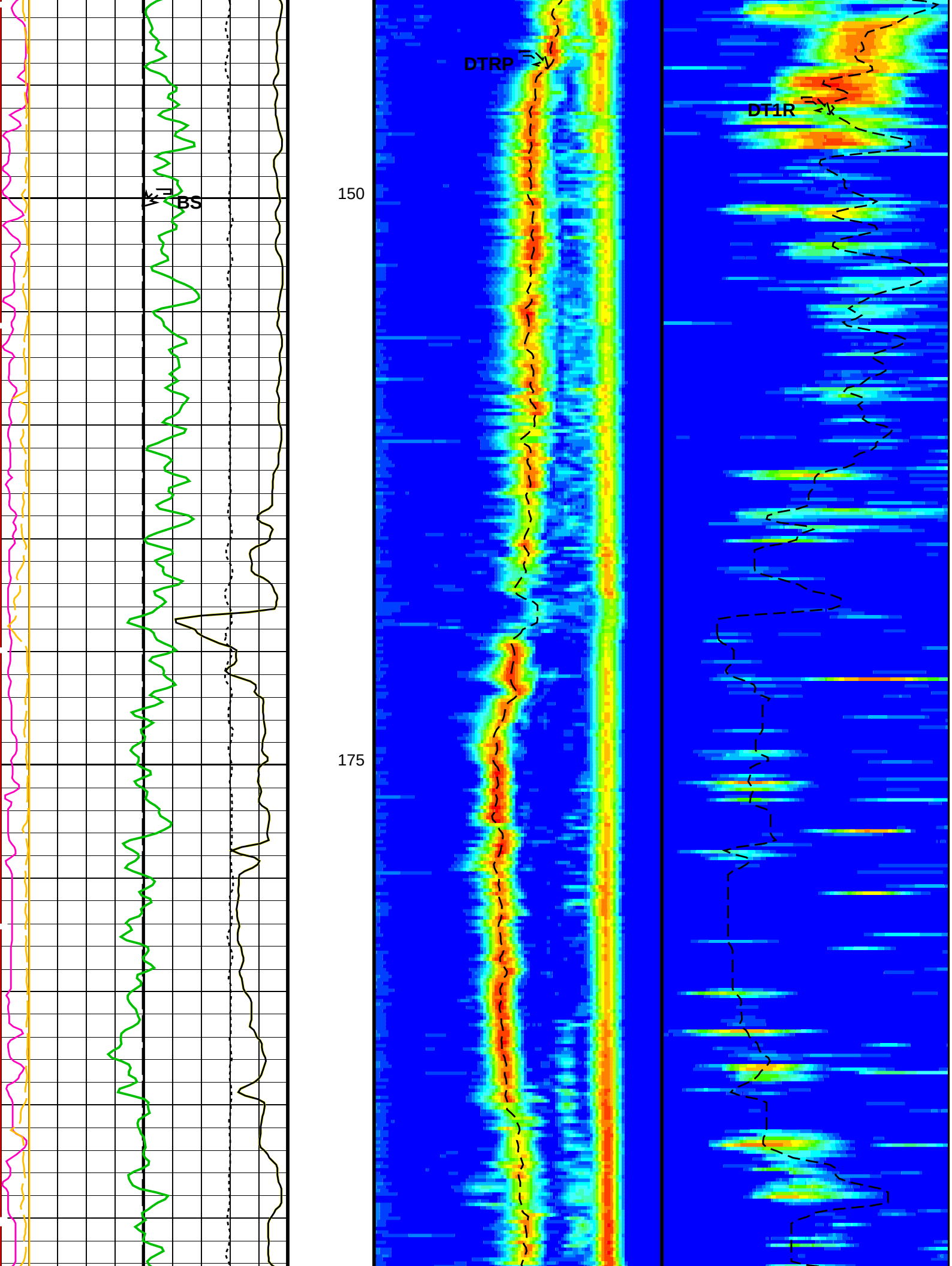


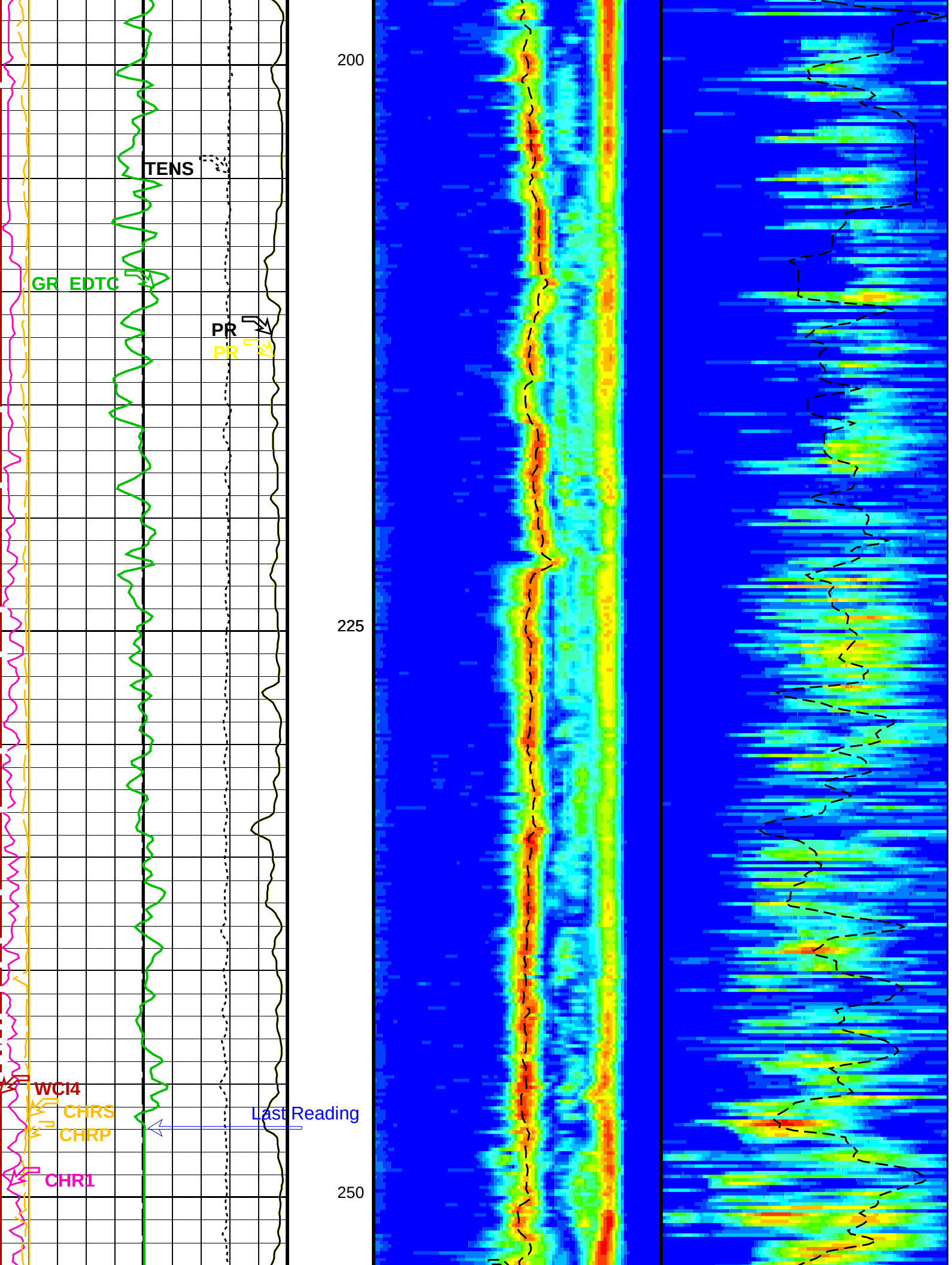

−75
−50

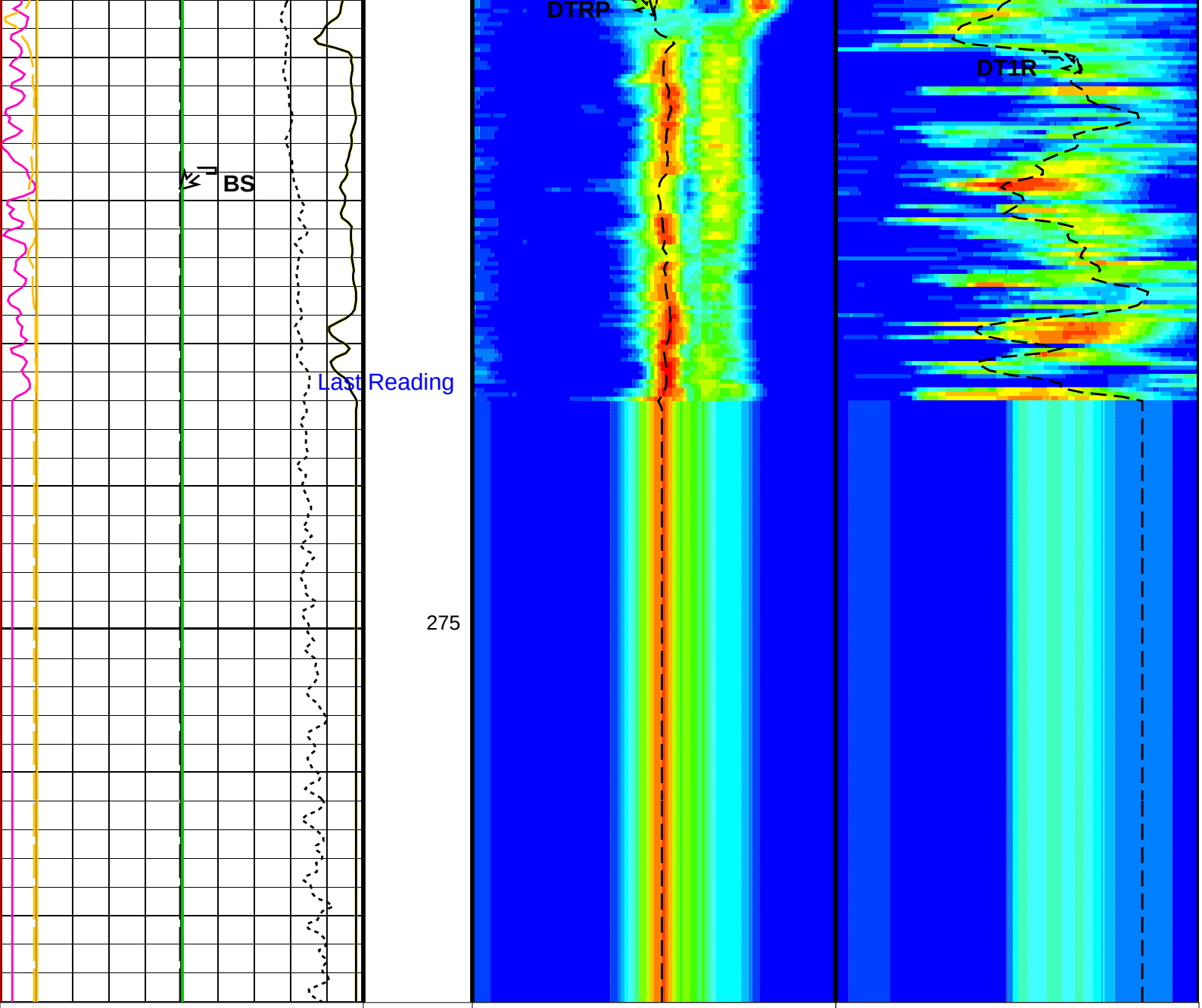

−25
Sea Floor
0
25


50
75


Drill Pipe
TENS
GR_EDTC
PR
PR
100
125
WCI4
CHRS
CHRP
CHR1


BS
150
175
DTRP
DT1R


200
225
250
TENS
GR EDTC
PR
PR
WCI4
CHRS
CHRP
CHR1
Last Reading



Bit Size (BS)
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)

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

Flipped Downlog

Sea Floor Depth Reference

0	(----)	10

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

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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DIT−E: Dual Induction − E		
BHS	Borehole Status	OPEN	
	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	118	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	
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

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	
	EDTC−B 8317: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	−259.0	M
PP	Playback Processing	OFF	

Format: DSST_P_S_LOWER_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 22−Jul−2013 16:54

OP System Version: 19C0−187

DIT−E	19C0−187	DTA−8259	19C0−187
DSST−B	19C0−187	HLDS	19C0−187
LDSC−B	19C0−187	EDTC−B	8317

Input DLIS Files

DEFAULT	PI_DSI_LDL_026PUP	FN:28	PRODUCER	22−Jul−2013 16:48	547.1 M	162.3 M

Output DLIS Files

DEFAULT	PI_DSI_LDL_029PUP	FN:31	PRODUCER	22−Jul−2013 16:54

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho−Density Sonde Wellsite Calibration − Background Measurement							
Master: 23−May−2013 18:26 Before: 5−Jun−2013 5:19							
SS Cs Resolution Bkg	9.000	7.935	8.049	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.162	8.063	N/A	N/A	1.800	%
LSW1 Background	100.0	71.72	70.78	N/A	N/A	0.03000	CPS
LSW2 Background	100.0	65.95	64.89	N/A	N/A	0.03000	CPS
LSW3 Background	200.0	146.1	143.2	N/A	N/A	0.03000	CPS
LSW4 Background	250.0	176.3	175.6	N/A	N/A	0.03000	CPS
LSW5 Background	600.0	404.2	405.6	N/A	N/A	0.03000	CPS
SSW1 Background	100.0	80.22	79.61	N/A	N/A	0.03000	CPS
SSW2 Background	200.0	141.1	142.8	N/A	N/A	0.03000	CPS
SSW3 Background	500.0	380.9	379.7	N/A	N/A	0.03000	CPS
SSW4 Background	270.0	201.0	199.2	N/A	N/A	0.03000	CPS
SSW5 Background	200.0	143.8	144.9	N/A	N/A	0.03000	CPS
Hostile Litho−Density Sonde Wellsite Calibration − Aluminum Measurement							
Master: 23−May−2013 19:07							
LSW1 Aluminum	600.0	513.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	737.9	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	887.0	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	448.1	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	411.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2391	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6513	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9048	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3653	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	442.2	N/A	N/A	N/A	N/A	CPS
Hostile Litho−Density Sonde Wellsite Calibration − Lithology Measurement							

Hostile Litho−Density Sonde Wellsite Calibration − Lithology Measurement
Master: 23−May−2013 18:57

LSW1 Iron	400.0	354.2	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	602.9	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	794.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	408.1	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	376.8	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1748	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5423	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8249	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3342	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	391.9	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Caliper Calibration
Before: 5−Jun−2013 5:19

HLDS Caliper Small Ring	12.00	N/A	16.02	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.90	N/A	N/A	N/A	IN

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

Dual Induction − E / Equipment Identification

Primary Equipment:		
Dual Induction Sonde	DIS − HB	442
Dual Induction Cartridge	DIC − EB	438
Auxiliary Equipment:		
Mass Isolated Housing	MIH − ZA	148

Hostile Litho−Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS − D	45
Hostile Litho Density High Voltage	HLDV − D	45
Gamma Source Radioactive	GSR − Z	8113
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP − C	45
Hostile Litho Density High Voltage Housi	HEH − H	47

Litho−Density Spectroscopy Cartridge − B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC − B 5	521
Auxiliary Equipment:		
LDSC Housing	LDSH − A	319

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG − A/B	8305
Enhanced DTS Cartridge	EDTC − B 8	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
Before		6.203
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)

Phase	Gamma Ray (Jig − Bkg) GAPI	Value
Before		156.4
142.2 (Minimum)	156.4 (Nominal)	170.6 (Maximum)

Phase	Gamma Ray (Calibrated) GAPI	Value
Before		164.0
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 U1420A**
Field: **Southern Alaska Margin Tectonics**
Rig: **JOIDES Resolution**
Ocean: **Pacific**

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