Schlumberger

Company: **International Ocean Discovery Program**

Well: **Expedition 396, Site U1571A**
Field: **Mid−Norwegian Cont. Margin Magmatism**
Rig: **JOIDES Resolution** Country: **Iceland**

Rig: JOIDES Resolution
Field: Mid−Norwegian Cont. Margin Ma
Location: Latitude: N 67.3067
Well: Expedition 396, Site U1571A
Company: International Ocean Discovery Pr

Dipole Sonic Imager (DSI)
Formation Microscanner (FMS)

LOCATION

Latitude: N 67.3067
Longitude: E 3.7375

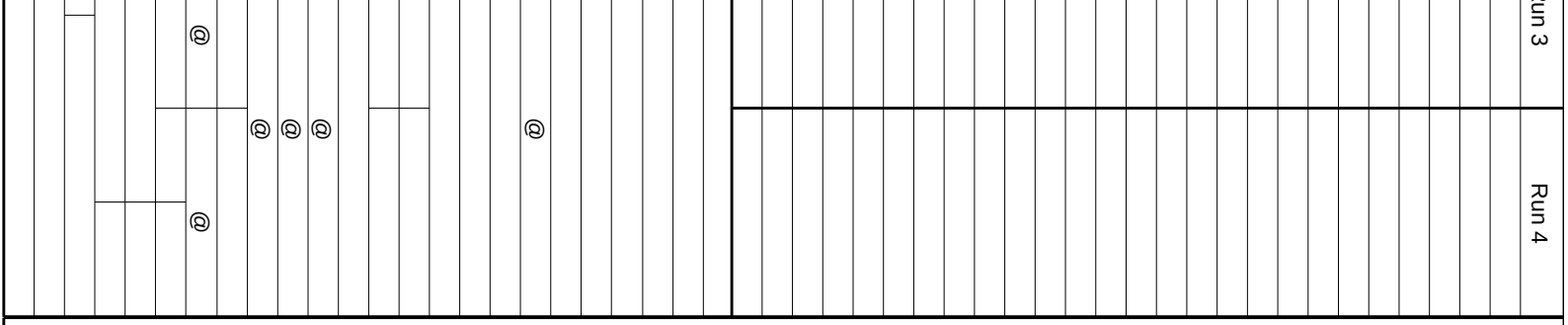
Elev.: K.B. 0.00 m
G.L. −1217.00 m
D.F. 0.00 m

Permanent Datum: Sea Floor — Elev.: −1217.00 m
Log Measured From: Rig Floor — 1217.00 m above Perm. Datum
Drilling Measured From: Rig Floor

Ocean:	Max. Well Deviation	Longitude	Latitude
Atlantic	5 deg	E 3.7375	N 67.3067

	Run 1	Run 2	Run 3
Logging Date	9−Sep−2021		
Run Number	2		
Depth Driller	1464 m		
Schlumberger Depth	1464 m		
Bottom Log Interval	14640 m		
Top Log Interval	1217 m		
Casing Driller Size @ Depth	5.500 in @ 1304 m	@	@
Casing Schlumberger	1303 m		
Bit Size	9.875 in		
Type Fluid In Hole	Barite Weighted Mud		
MUD Density / Viscosity	1.26 g/cm3 /	/	/
MUD Fluid Loss / PH	/ 8.07	/	/
MUD Source Of Sample	Mudpit		
RM @ Measured Temperature	0.220 ohm.m @ 23 degC	@	@
RMF @ Measured Temperature	@	@	@
RMC @ Measured Temperature	@	@	@
Source RMF / RMC	N/A / N/A	/	/
RM @ MRT / RMF @ MRT	0.369 @ 5 / @ 5	@ / @	@ / @
Maximum Recorded Temperatures	5 degC		
Circulation Stopped / Time	9−Sep−2021 / 5:00		
Logger On Bottom / Time	9−Sep−2021 / 16:20		
Unit Number / Location	627314 / Larose, LA	/	/
Recorded By	C. Furman		
Witnessed By	S. Midgley		

	Run 4	Run 5	Run 6
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			



OTHER SERVICES1

OS1: HNGS / HLDS

OS2: HRLA / MSS

OS3: UBI

REMARKS: RUN NUMBER 1

Hole drilled with RCB bottom hole assembly (BHA) at 9.875" BS

Drill pipe set at 1304mbrf (87mbrf).

Fluid type was sea water, displaced in the hole prior to logging.

Depth recorded from drill floor; logs presented as−logged without depth corrections or shifts, as per client instructions.

All logs presented in wireline measured depth below rig floor (MDBRF).

Caliper opened during upward passes; closed inside pipe and while logging down.

Hole size corrections made using caliper measurements for upward passes bit size

used for downlog corrections.

AHC used from TD then switched off to facilitate pipe entry.

Caliper closed prior to shutting off compensator and entering pipe or casing.

FMS Measurement Power (EMEX) turned off at 1340mbrf, prior to entering casing.

DSI run with UD=std, LD=LF, and Monopole=Std. frequencies.

Downlog flipped and note the caliper closed logging down.

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

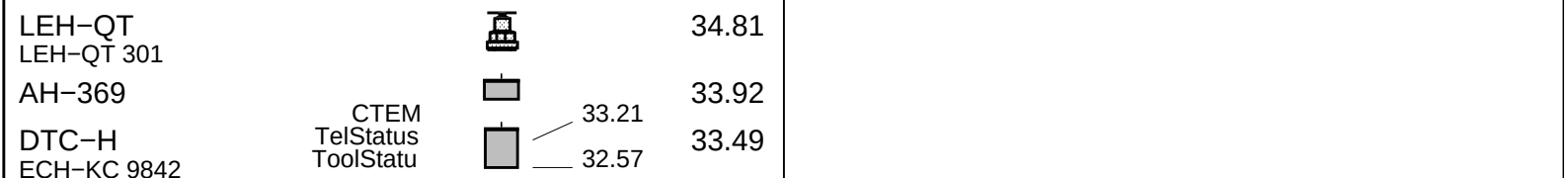
RUN 1

SURFACE EQUIPMENT

GSR−U 6098

WITM (DTS)−A

DOWNHOLE EQUIPMENT



RUN 2

HNGS−BA
HNGS−BA 99
HNSH−BA 102

Upper_1 31.87
Lower_2 31.66

32.57

HNGC−B
HNGH−A 3

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 8192
SMDX−AA 8194

26.73

PWF 11.18

AH−MCD1
AH−MCD1 1

11.18

DTA−A
ECH−KE 8456

8.90

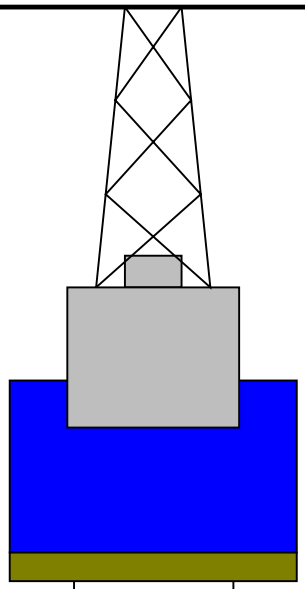
MEST−B
MEAH−B 769
MEAC−A 804
MEPH−A 701
GPIC−AC 840
MEPC−AB 806
MEDS−B 724

7.68

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

MAXIMUM STRING DIAMETER 3.75 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

	OD	ID	MD		MD	OD	ID	
Kelly Bushing Elevation			0.0					
Derrick Floor Elevation			0.0					
Mean Sea Level			11.1					
					0.0	5.500	4.125	
					1217.0	9.875		Sea Floor
					1304.0	5.500	4.125	Pipe
					1464.0	9.875		TD– Driller

Schlumberger

Downlog

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP		PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 50

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 50

HNGS Borehole Potassium (HBHK)
−0.05 (−−−−) 0.05

Caliper 2 (C2)
6 (IN) 16

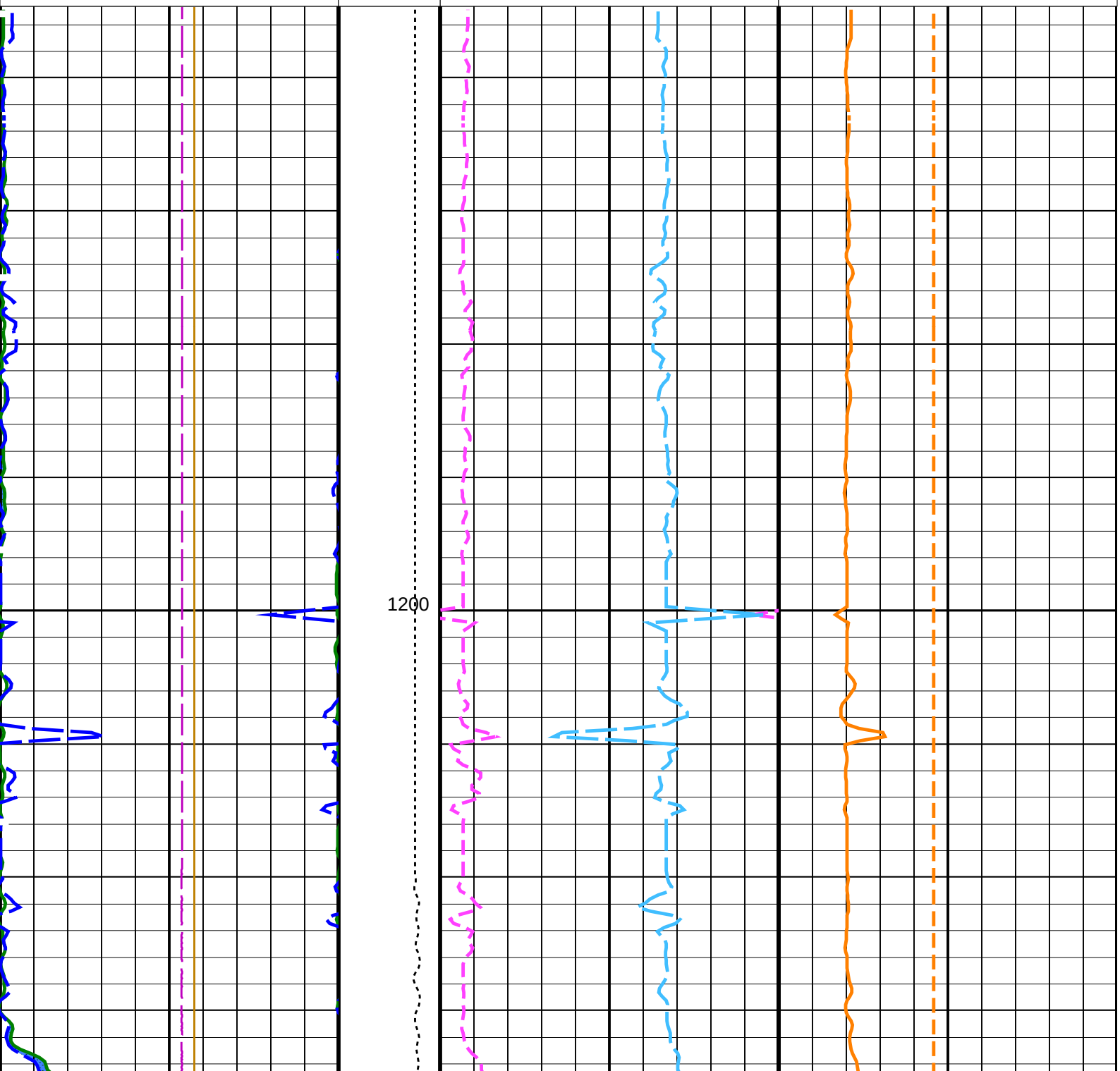
HNGS Uranium (HURA)
−5 (PPM) 10

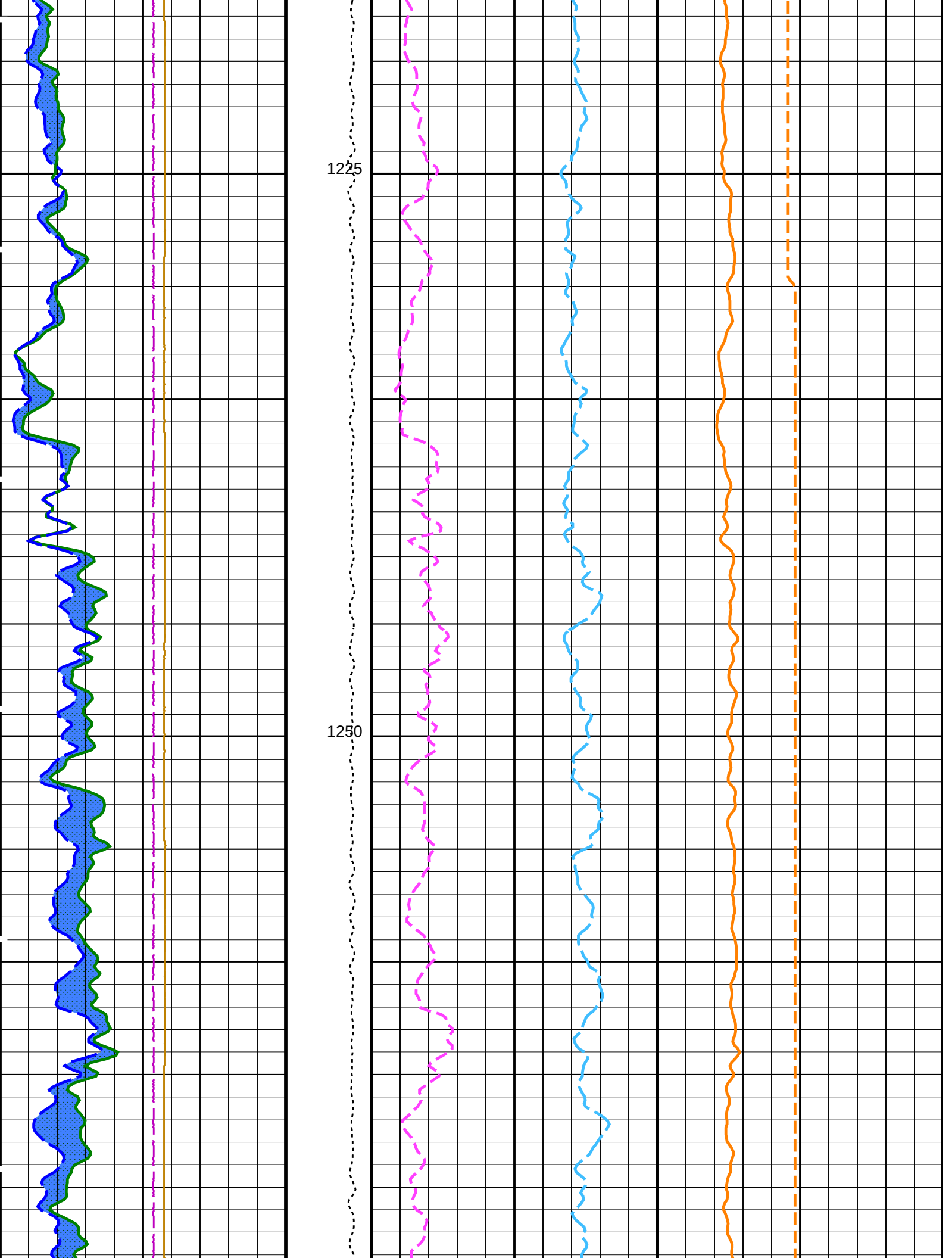
Caliper 1 (C1)
6 (IN) 16

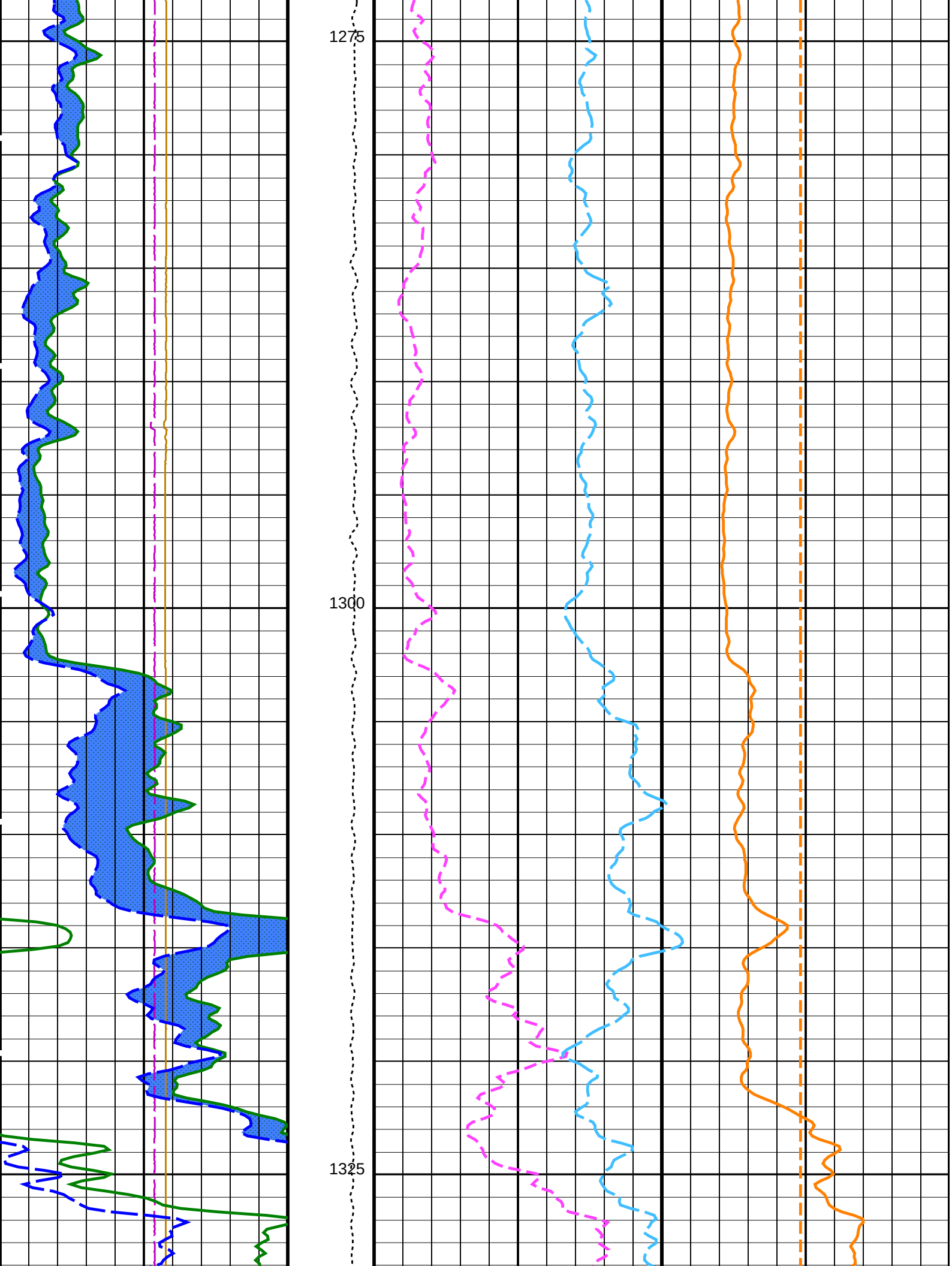
Tension (TENS) (LBF)
10000 0

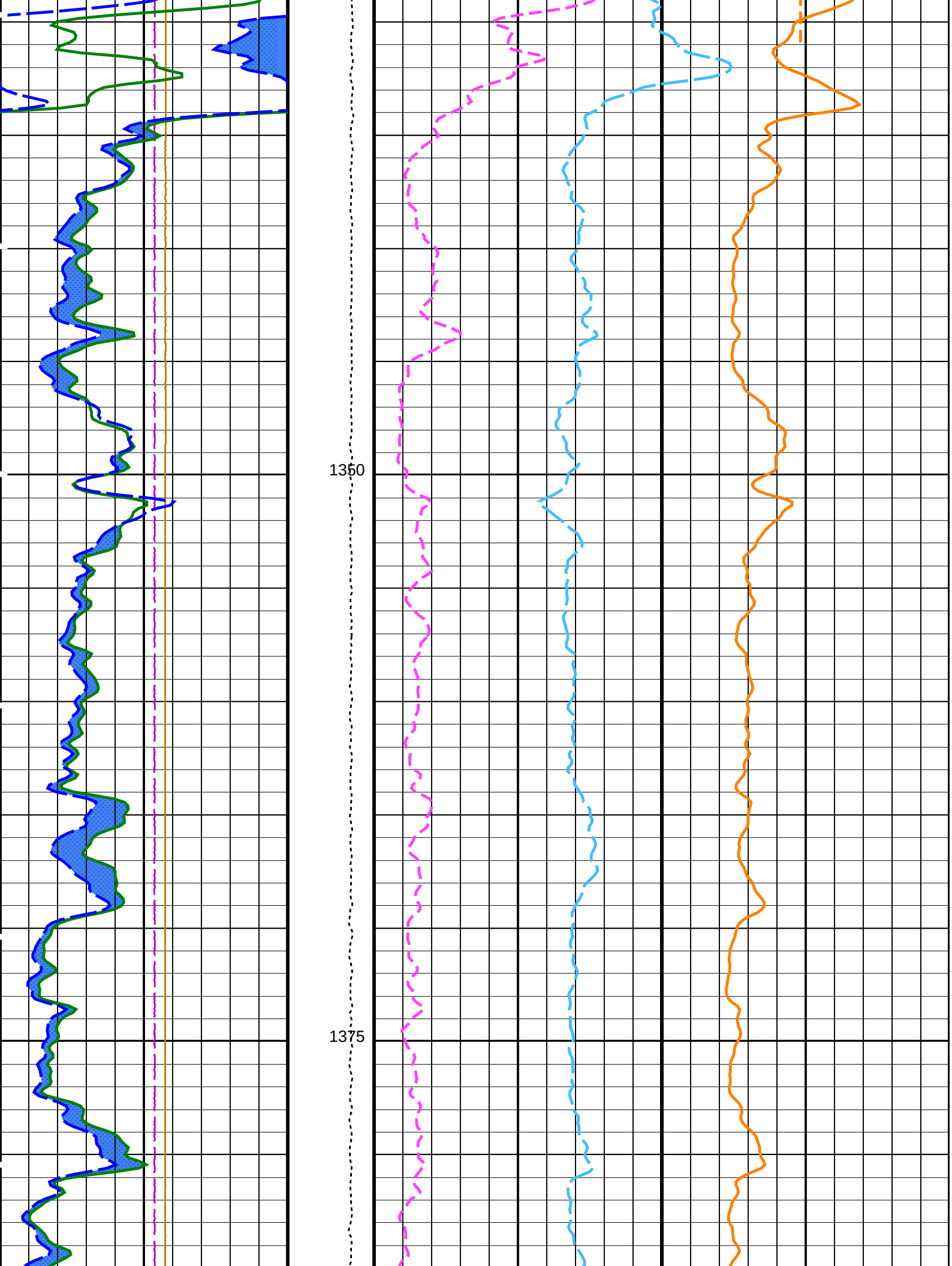
HNGS Thorium (HTHO)
−1 (PPM) 14

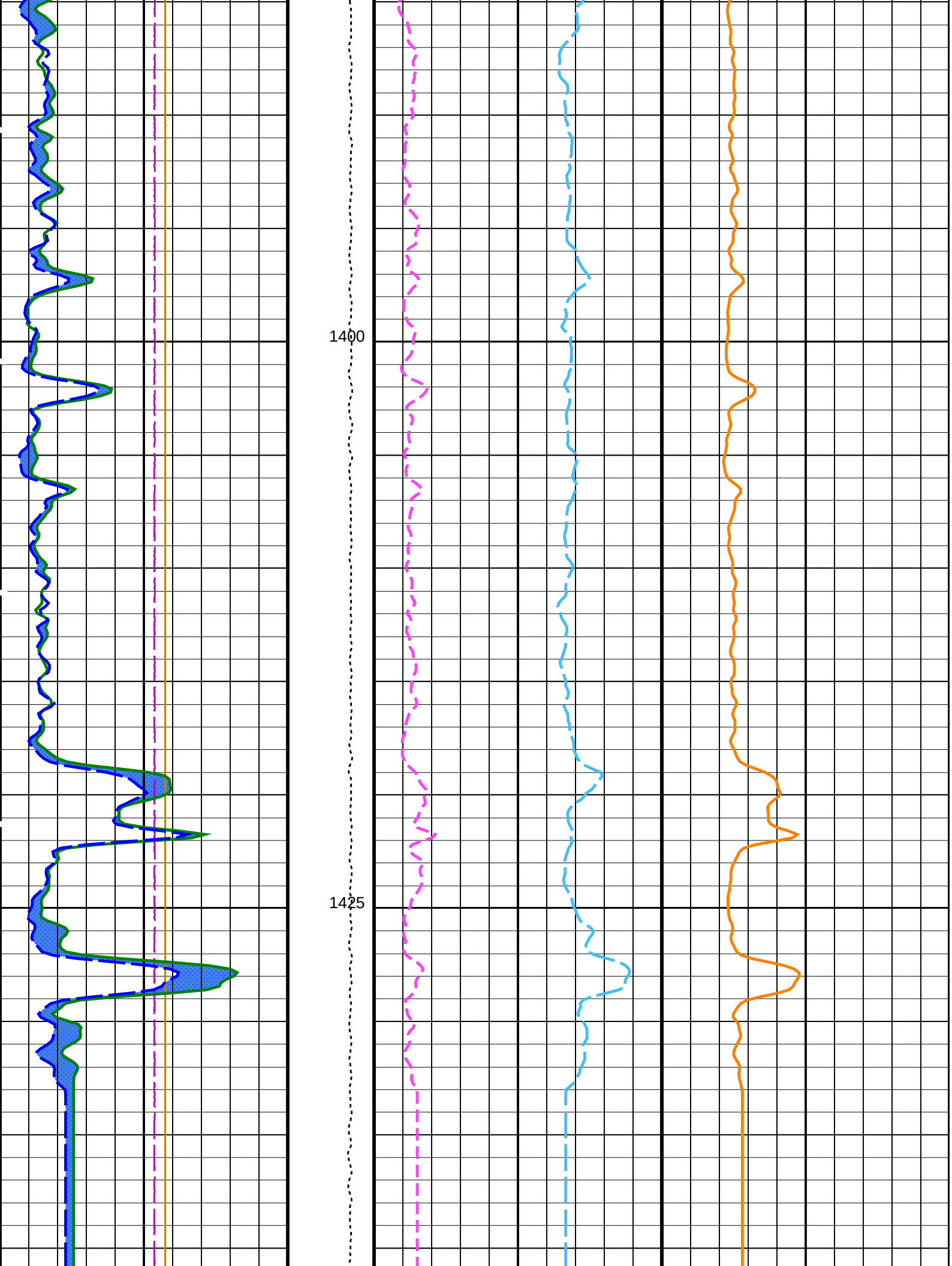
HNGS Potassium (HFK)
−0.01 (−−−−) 0.04

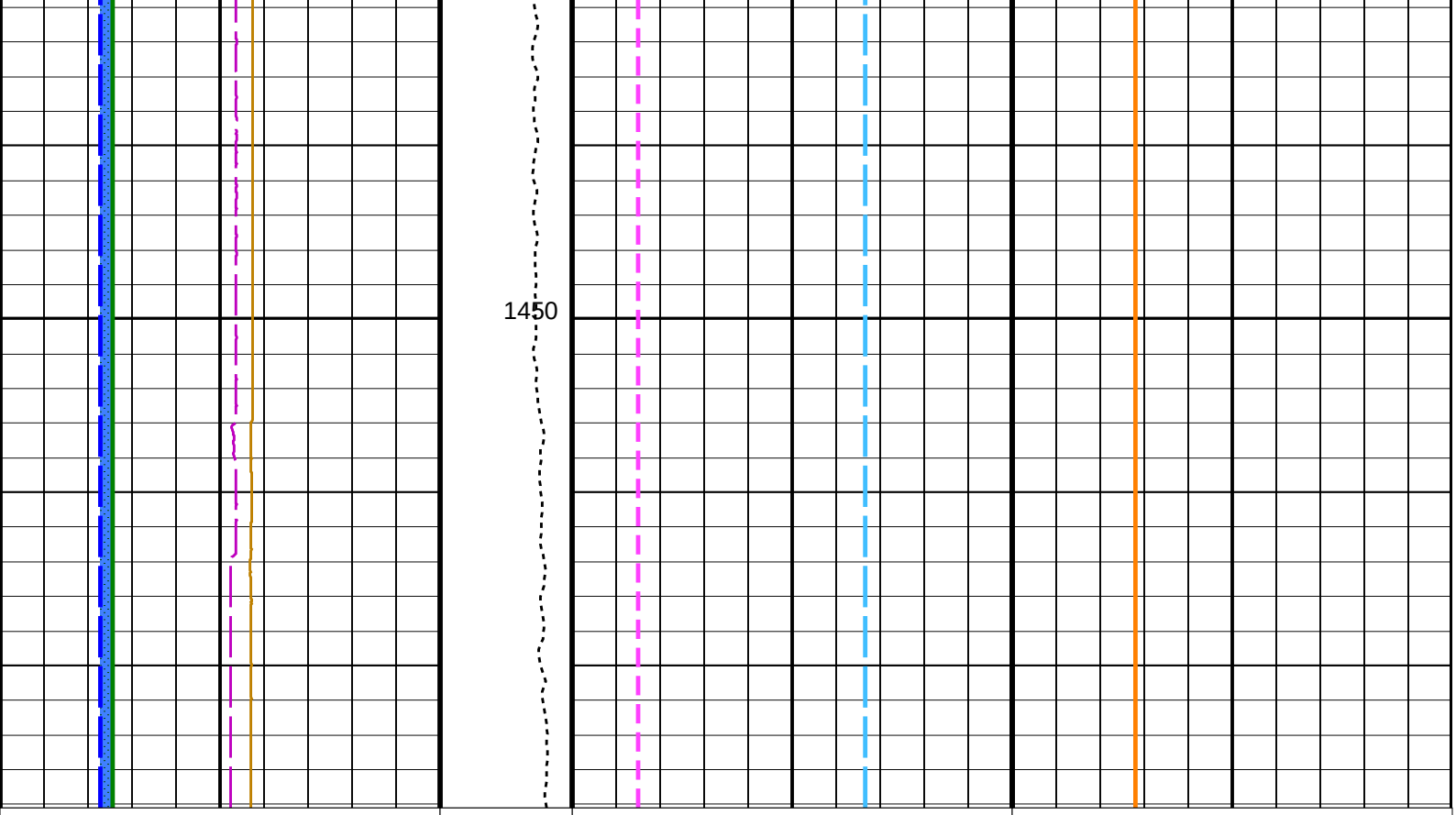



1225
1250


1275
1300
1325


1350
1375


1400
1425



Caliper 1 (C1)
6 (IN) 16

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
−1 (PPM) 14

HNGS Potassium (HFK)
−0.01 (−−−−) 0.04

Caliper 2 (C2)
6 (IN) 16

HNGS Uranium (HURA)
−5 (PPM) 10

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 50

HNGS Borehole Potassium (HBHK)
−0.05 (−−−−) 0.05

Area1
From HCGR to HSGR

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 50

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
	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	−0.0144297	
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	1.02915	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.02195	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:15

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP	PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15		
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15		

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP	PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

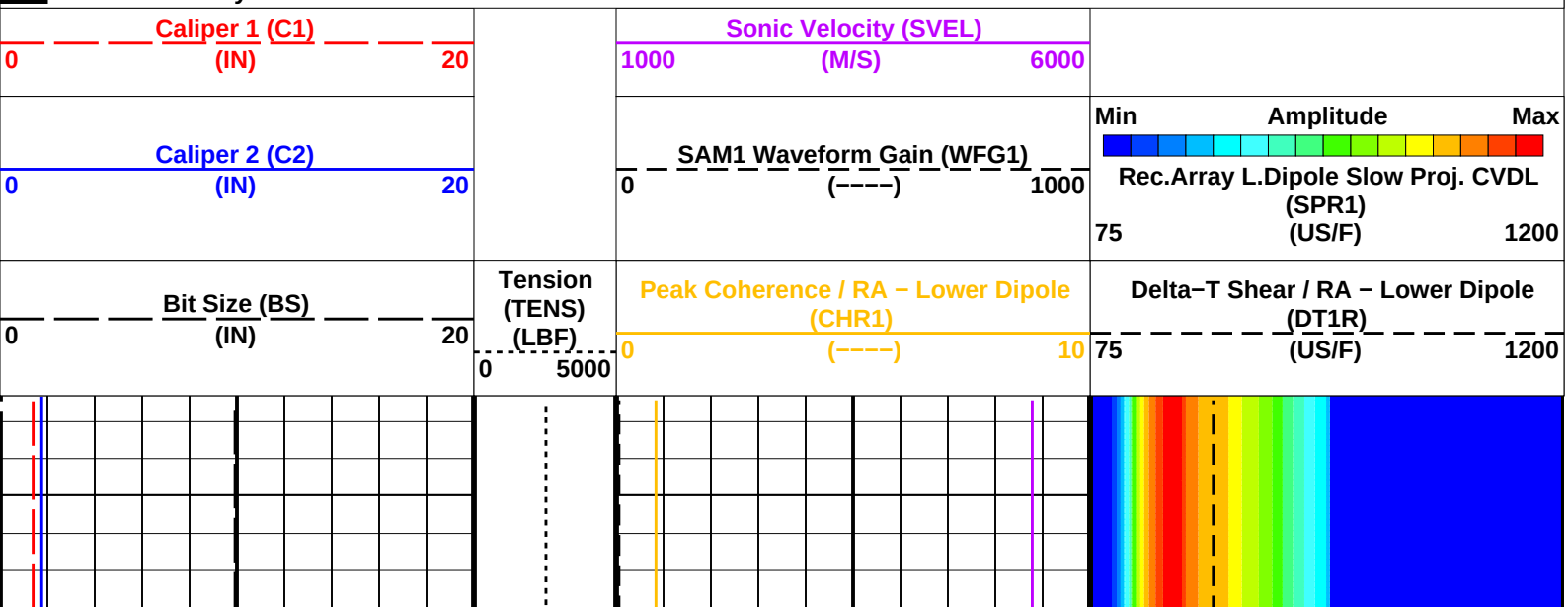
DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M

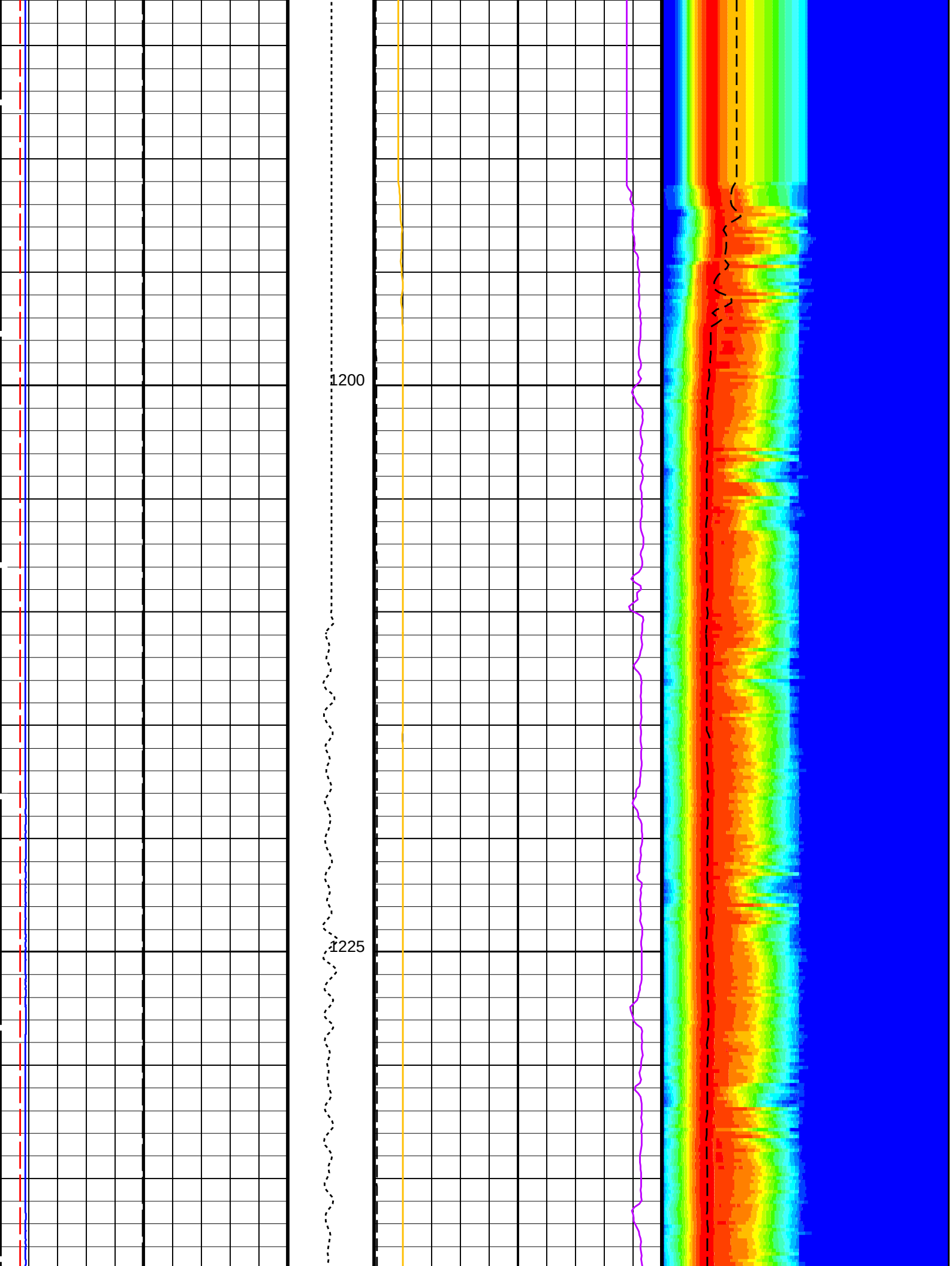
OP System Version: 19C0−187

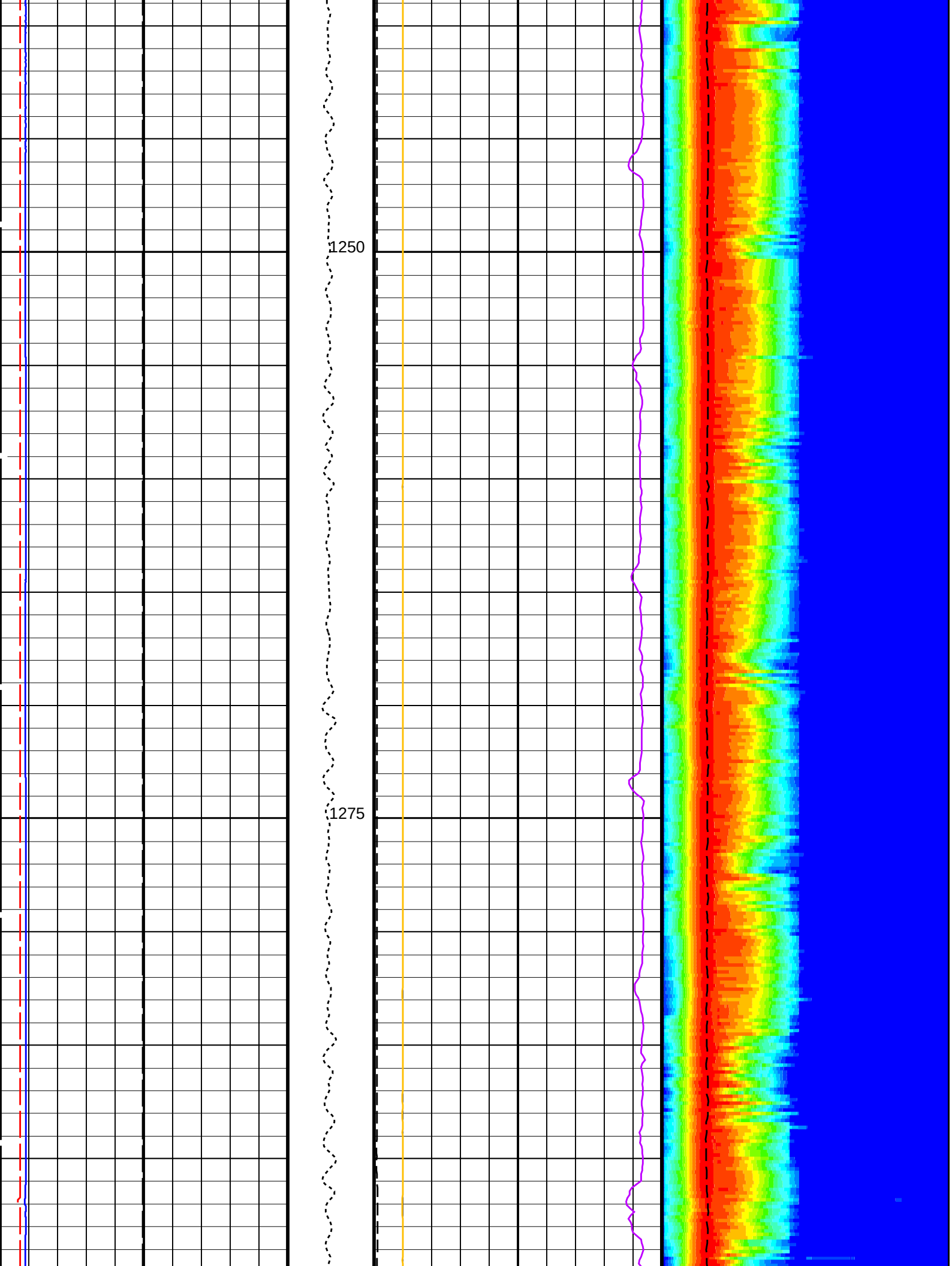
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

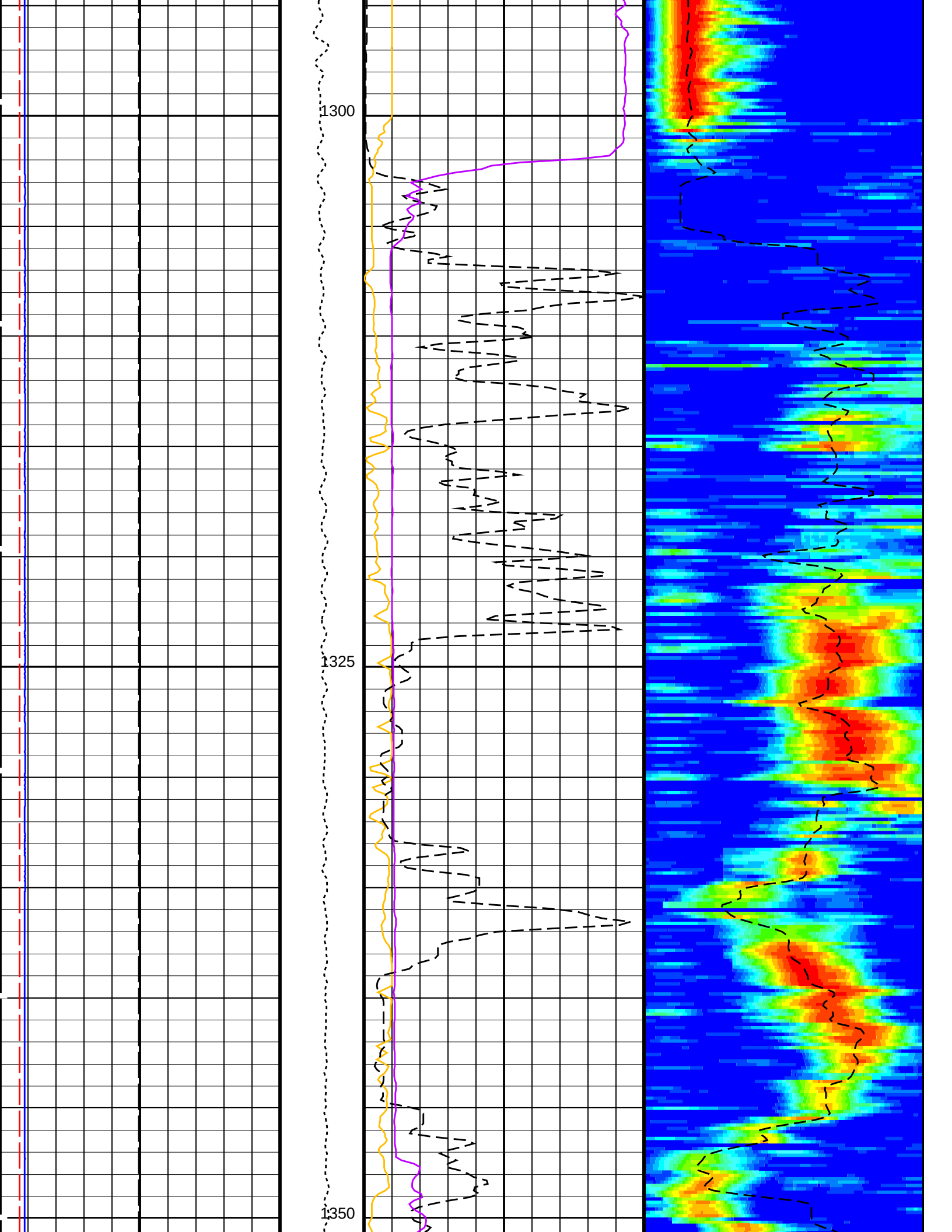
PIP SUMMARY

Time Mark Every 60 S




1200
1225


1250
1275


1300
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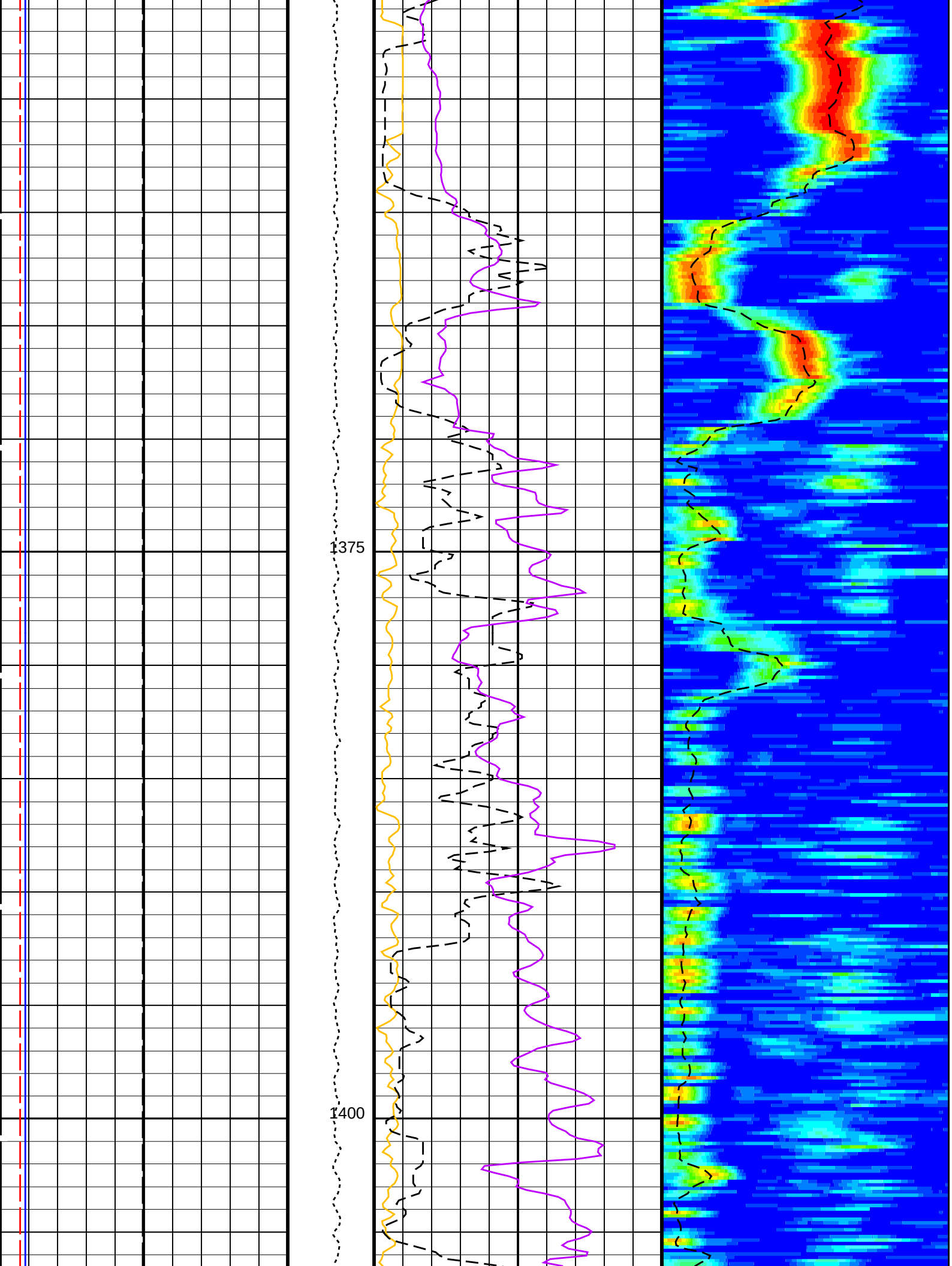
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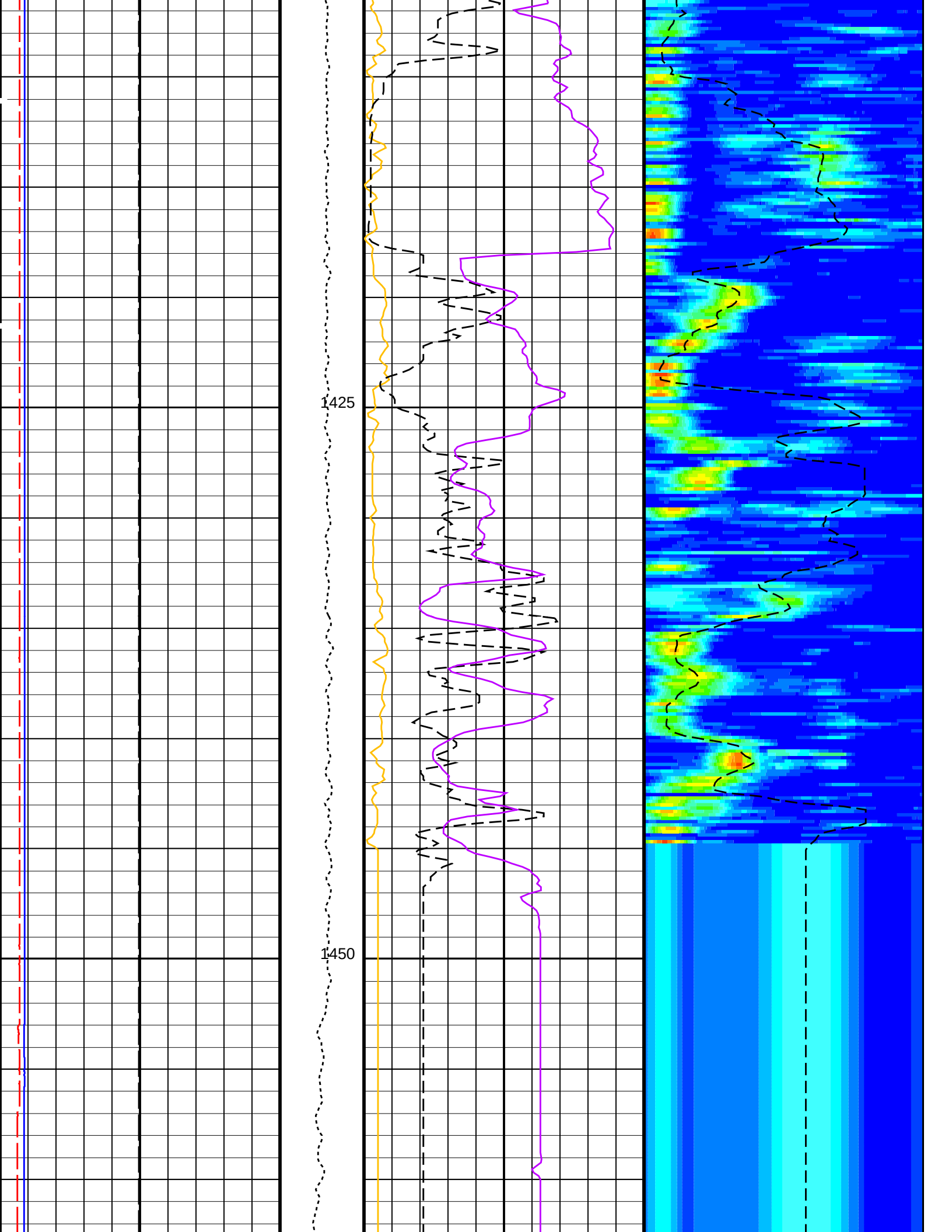
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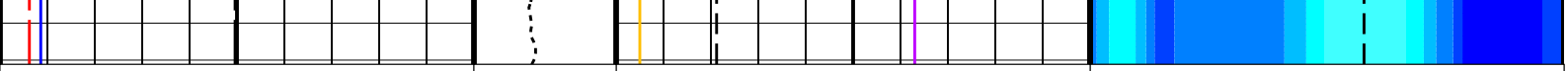


Bit Size (BS) (IN)	Tension (TENS) (LBF)	Peak Coherence / RA − Lower Dipole (CHR1)	Delta−T Shear / RA − Lower Dipole (DT1R)
0 — 20	0 — 5000	0 (−−−−) 10	75 (US/F) 1200
Caliper 2 (C2) (IN): 0 — 20		SAM1 Waveform Gain (WFG1) (−−−−): 0 — 1000	Min Amplitude Max; Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F): 75 — 1200
Caliper 1 (C1) (IN): 0 — 20		Sonic Velocity (SVEL) (M/S): 1000 — 6000	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE1	Digitizing Delay 1	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1050	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 − Lower Dipole Mode	LFD_EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status − Lower Dipole	255	
SBO1	STC Search Band Offset − Lower Dipole	3000	US
SBW1	STC Search Bandwidth − Lower Dipole	8000	US
SFC1	STC Formation Character − Lower Dipole	SELECTABLE	
SFM1	STC Filter − Lower Dipole	B.3−1.5K	
SLL1	STC Slowness Lower Limit − Lower Dipole	40	US/F
SST1	STC Slowness Step − Lower Dipole	4	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit − Lower Dipole	1400	US/F
SWD1	STC Slowness Width − Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill − Lower Dipole	0	US
TLL1	STC Time Lower Limit − Lower Dipole	600	US
TST1	STC Time Step − Lower Dipole	200	US
TUL1	STC Time Upper Limit − Lower Dipole	20440	US
TWD1	STC Time Width − Lower Dipole	2000	US
TWI1	STC Integration Time Window − Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_LOWER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:15

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP		PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15		
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15		

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP		PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

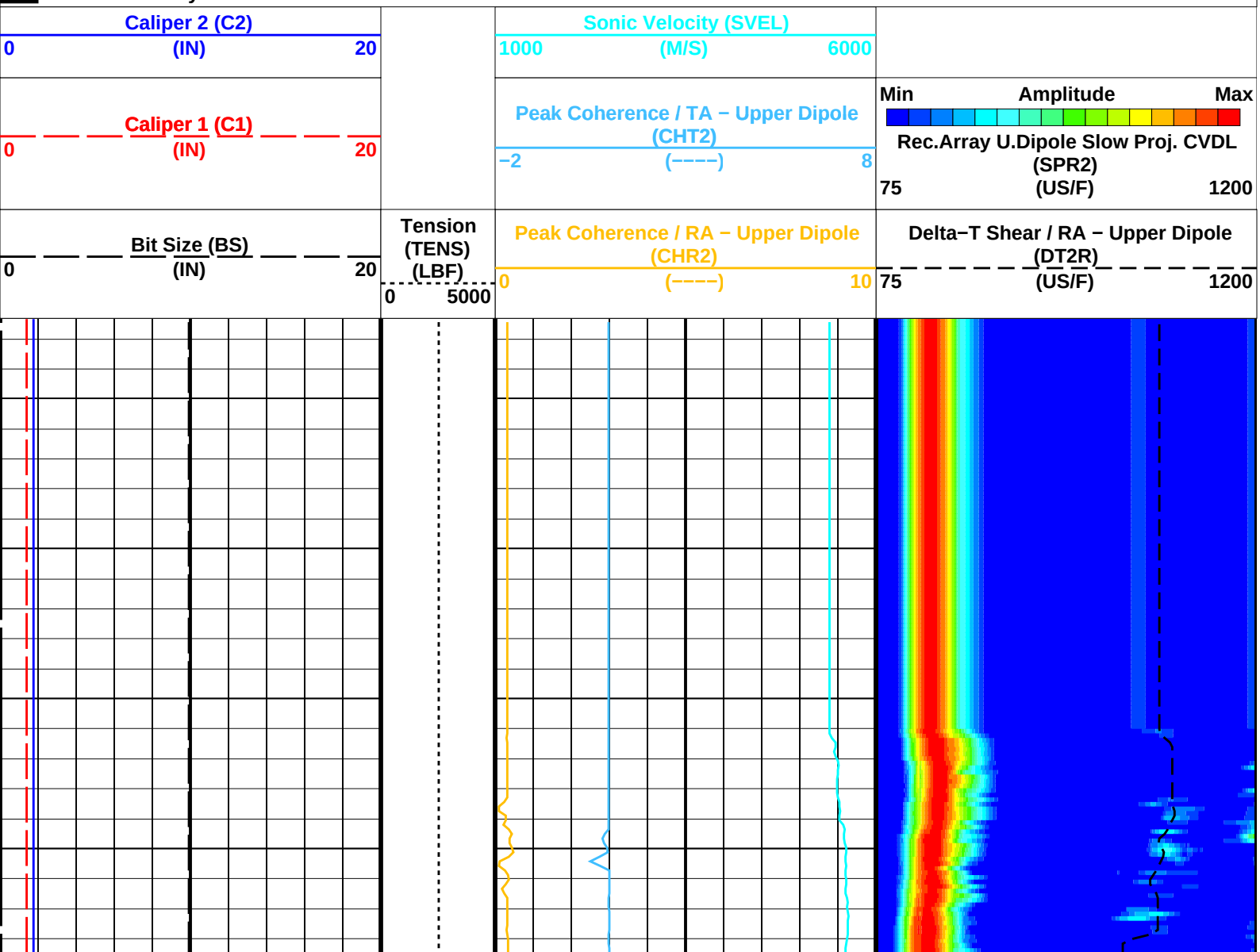
DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M

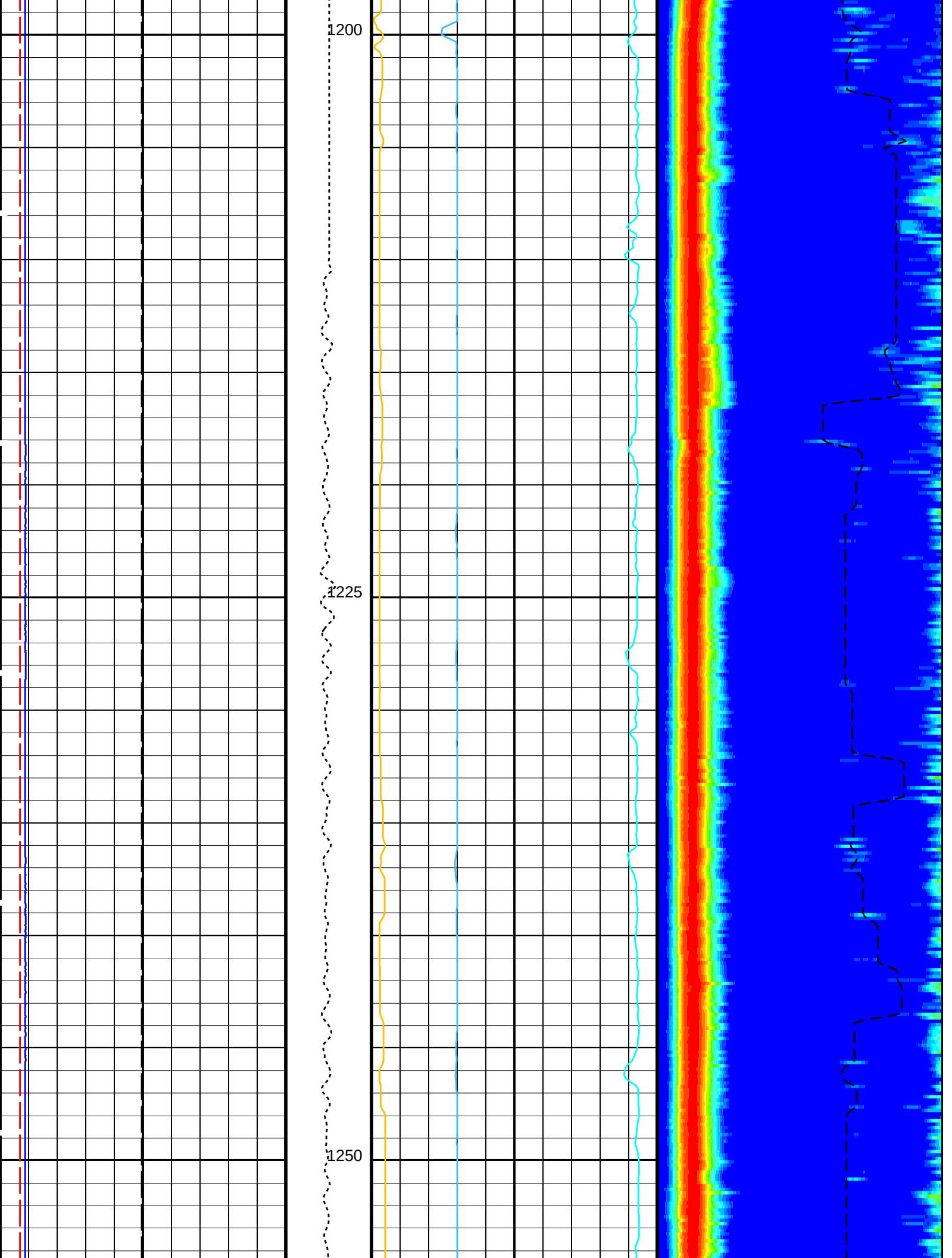
OP System Version: 19C0−187

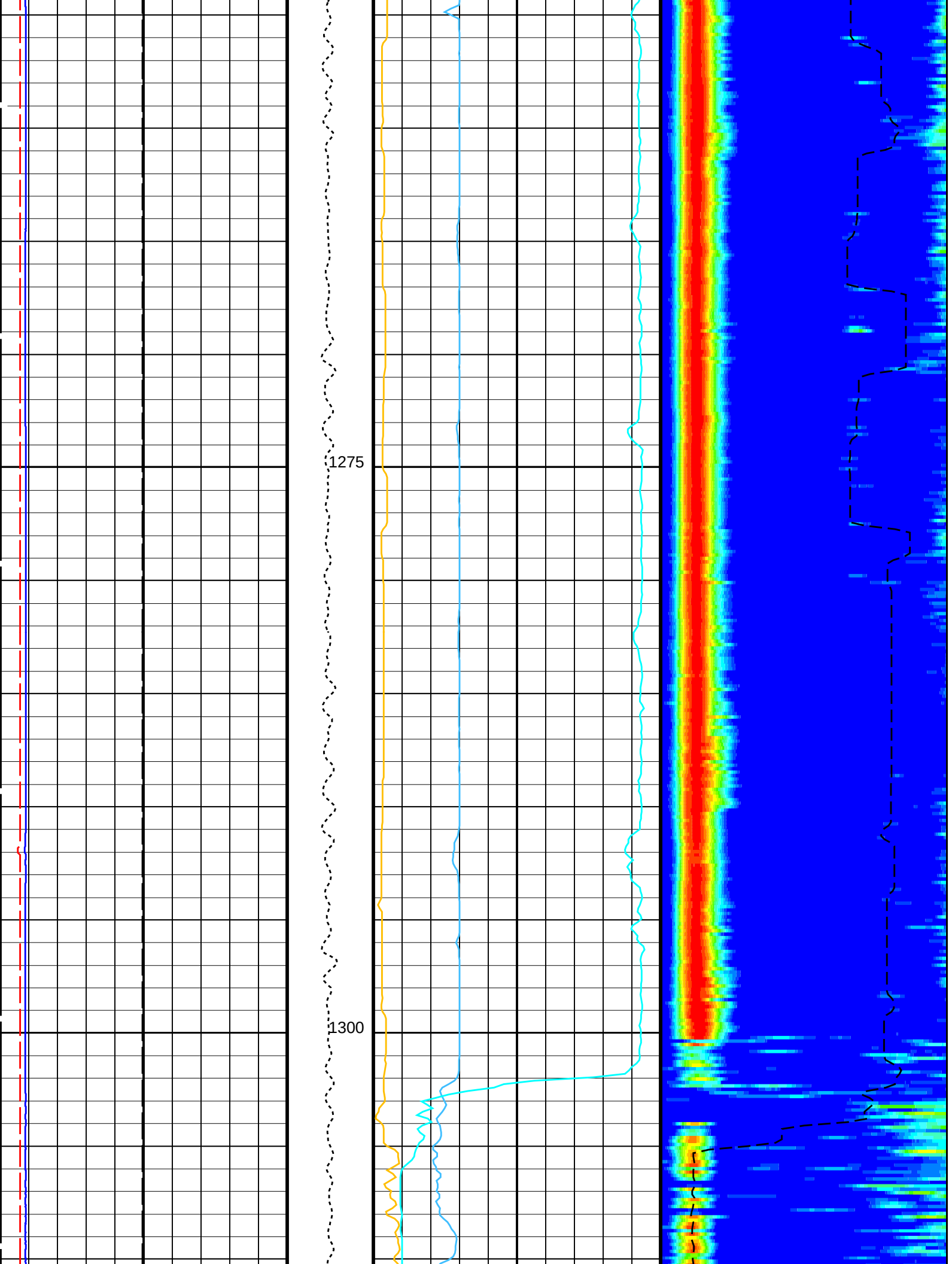
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

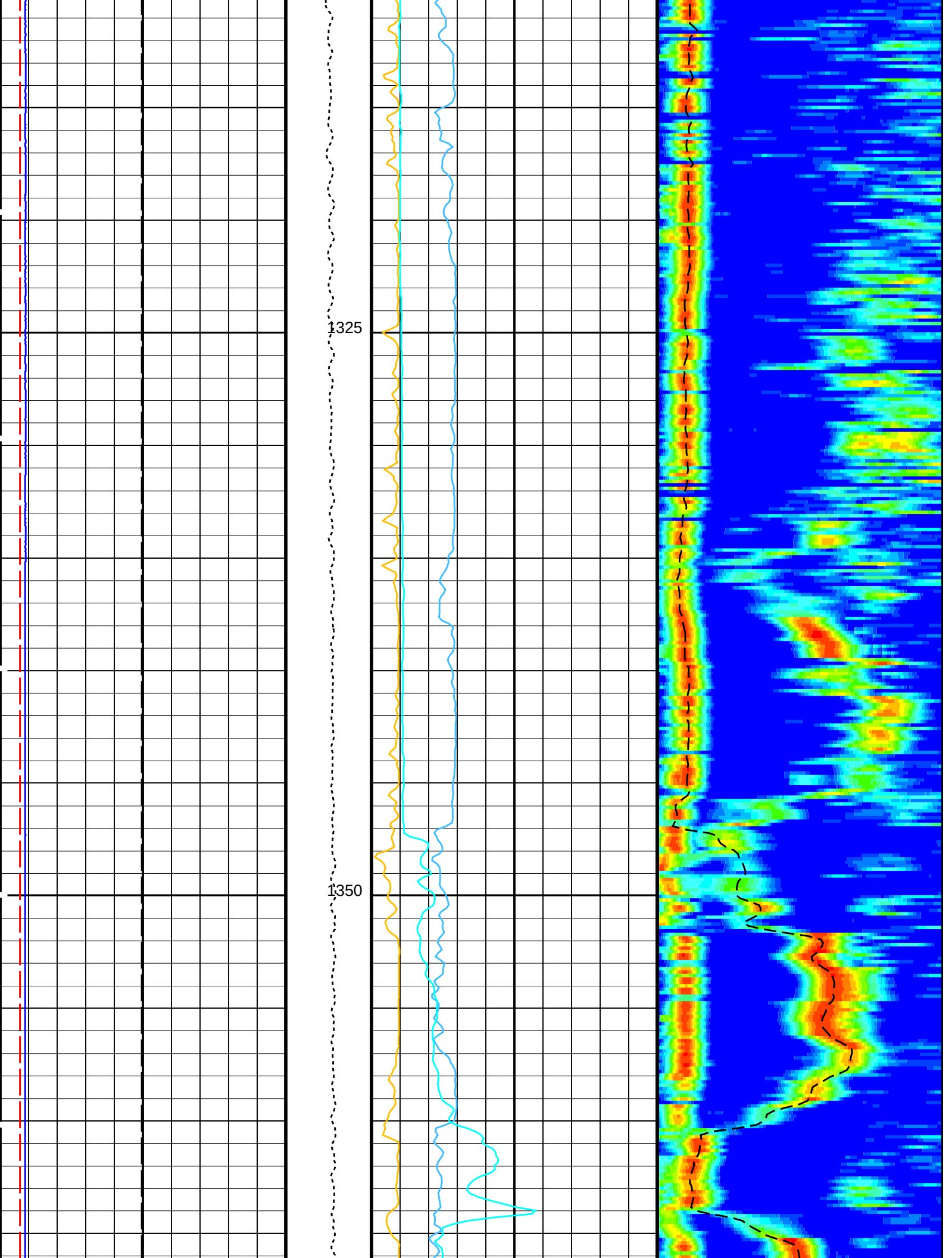
PIP SUMMARY

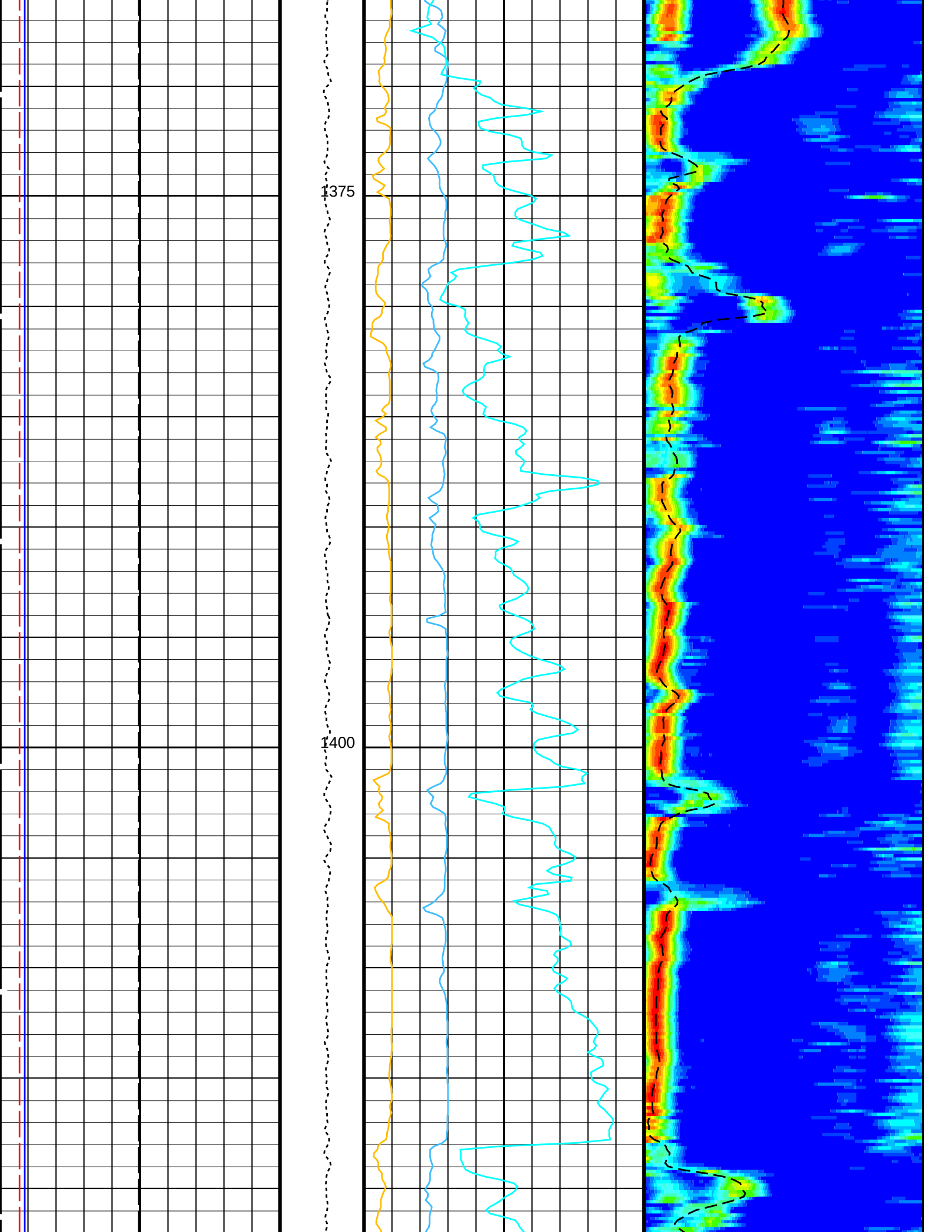
Time Mark Every 60 S

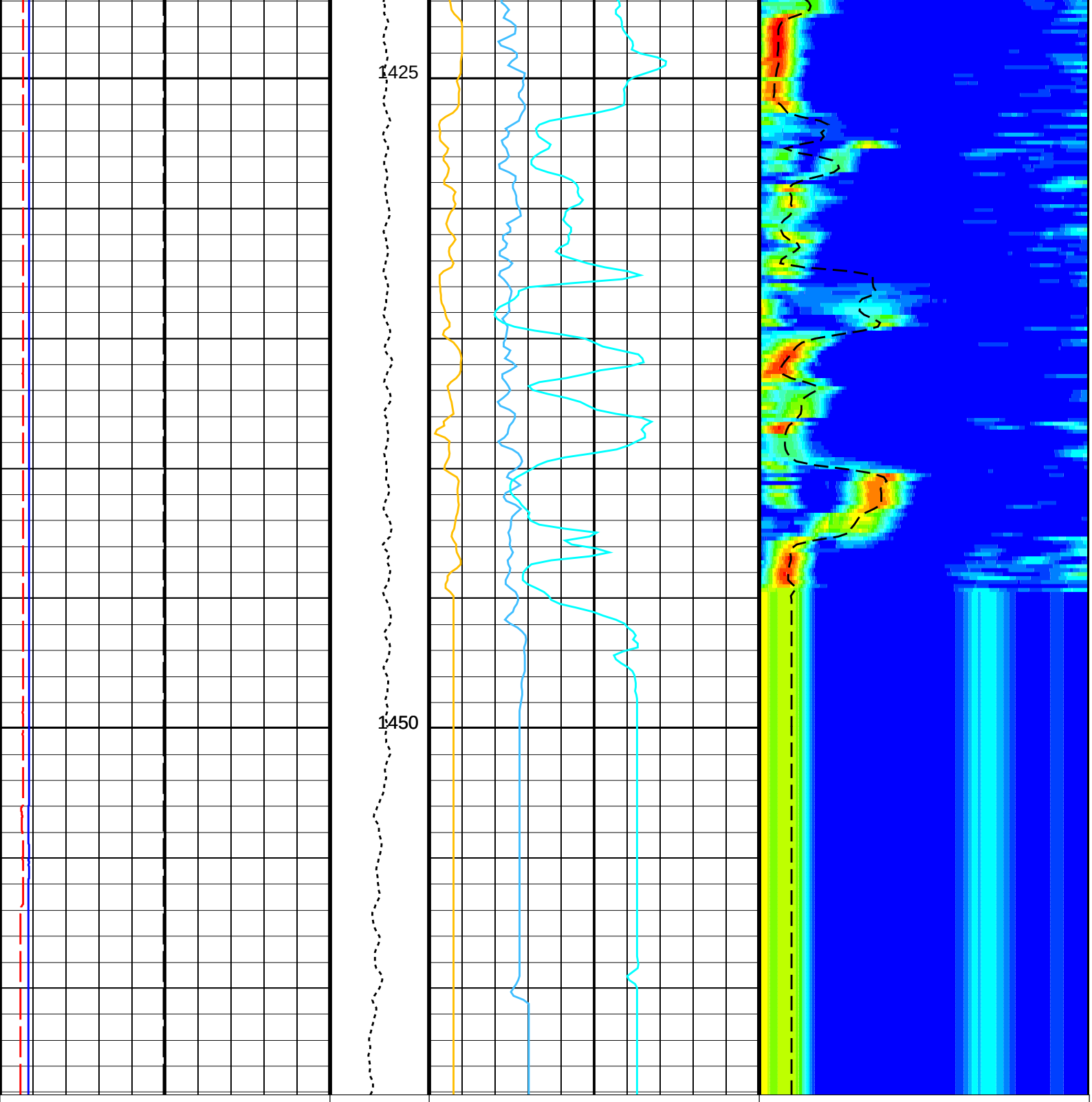



1200
1225
1250


1275
1300


1325
1350


1375
1400



Bit Size (BS) (IN)	Tension (TENS) (LBF)	Peak Coherence / RA − Upper Dipole (CHR2)	Delta−T Shear / RA − Upper Dipole (DT2R)
0 — 20	0 — 5000	0 (−−−−) 10	75 (US/F) 1200
Caliper 1 (C1) (IN) 0 — 20		Peak Coherence / TA − Upper Dipole (CHT2) −2 (−−−−) 8	Min Amplitude Max; Rec.Array U.Dipole Slow Proj. CVDL (SPR2) 75 (US/F) 1200
Caliper 2 (C2) (IN) 0 — 20		Sonic Velocity (SVEL) 1000 (M/S) 6000	

PIP SUMMARY

Time Mark Every 60 S

Parameters

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1050	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 − Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status − Upper Dipole	255	
SBO2	STC Search Band Offset − Upper Dipole	3000	US
SBW2	STC Search Bandwidth − Upper Dipole	8000	US
SFC2	STC Formation Character − Upper Dipole	SELECTABLE	
SFM2	STC Filter − Upper Dipole	B1−2K	
SLL2	STC Slowness Lower Limit − Upper Dipole	40	US/F
SST2	STC Slowness Step − Upper Dipole	4	US/F
SSW2	STC Source Waveform − Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit − Upper Dipole	1400	US/F
SWD2	STC Slowness Width − Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill − Upper Dipole	0	US
TLL2	STC Time Lower Limit − Upper Dipole	600	US
TST2	STC Time Step − Upper Dipole	200	US
TUL2	STC Time Upper Limit − Upper Dipole	20440	US
TWD2	STC Time Width − Upper Dipole	2000	US
TWI2	STC Integration Time Window − Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:15

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP	PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15

Company: International Ocean Discovery Program Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP	PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M

RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

Delta−T Stoneley (DTST)
440 (US/F) 40

Delta−T Stoneley / TA (DT3T)
440 (US/F) 40

Caliper 2 (C2)
0 (IN) 20

Delta−T Stoneley / RA (DT3R)
440 (US/F) 40

Caliper 1 (C1)
0 (IN) 20

Peak Coherence / TA − Stoneley (CHT3)
−2 (−−−−) 8

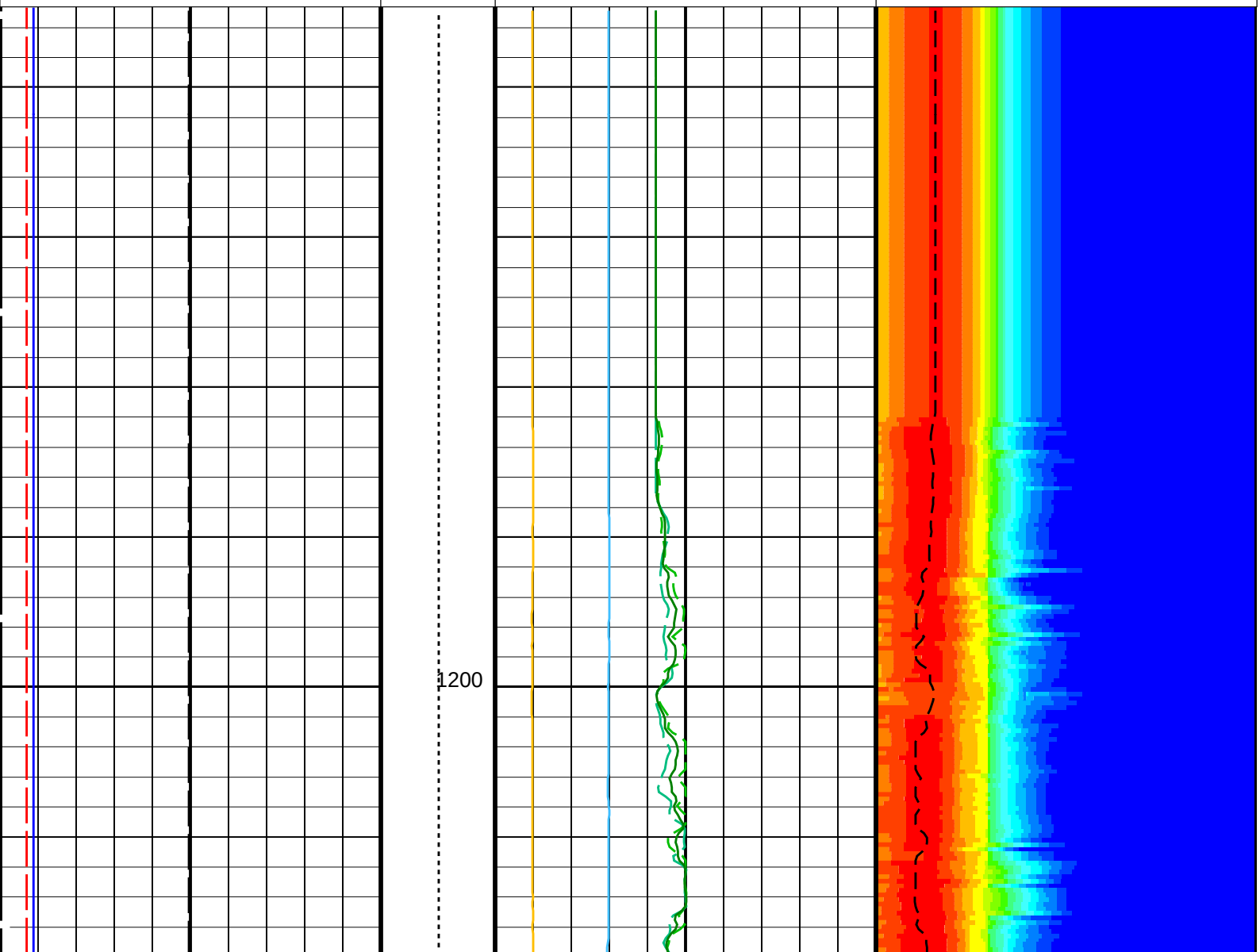
Min Amplitude Max
Rec.Array Stoneley Slow Proj. CVDL (SPR3)
180 (US/F) 780

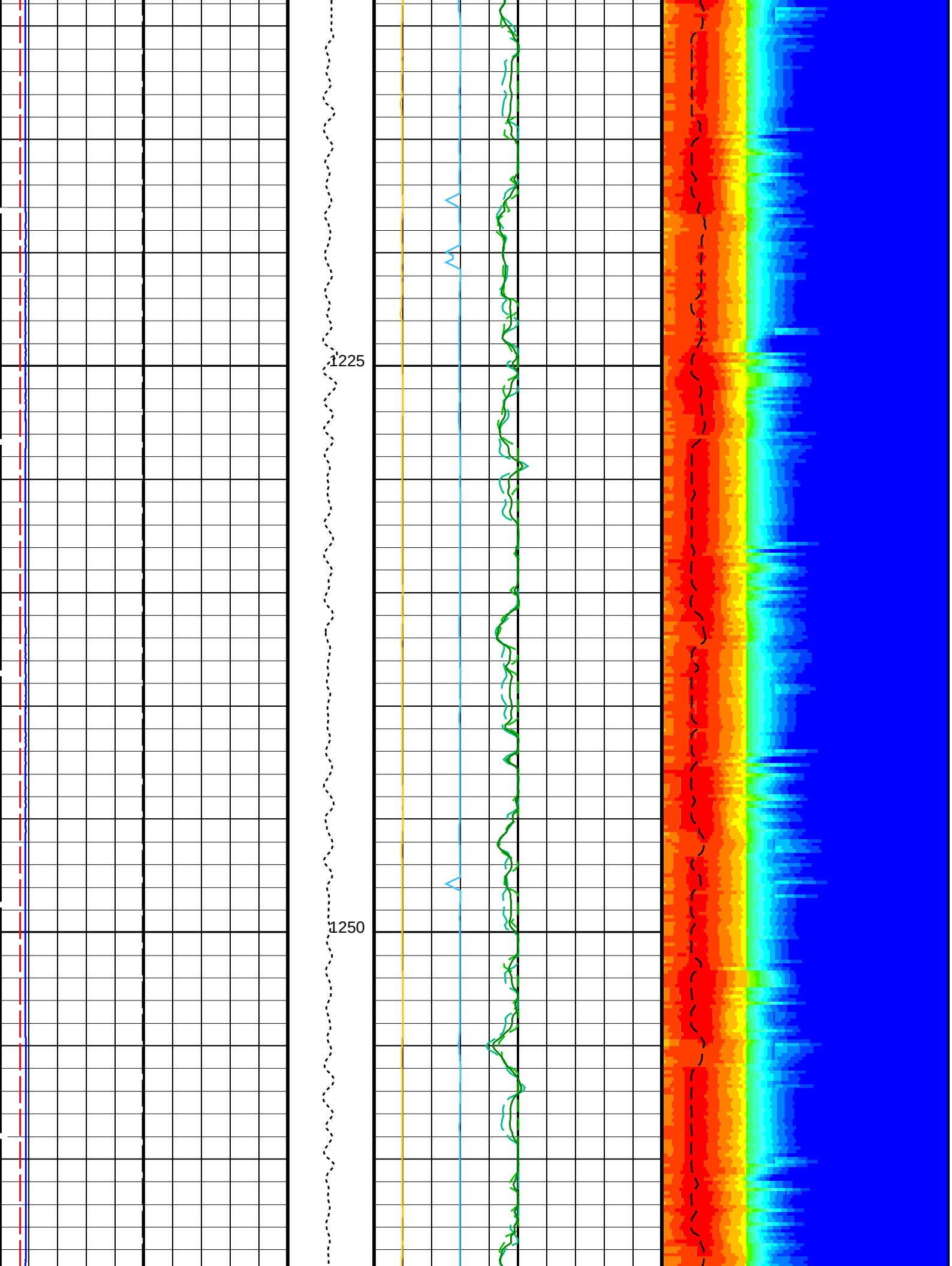
Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

Peak Coherence / RA − Stoneley (CHR3)
0 (−−−−) 10

Delta−T Stoneley / RA (DT3R)
180 (US/F) 780

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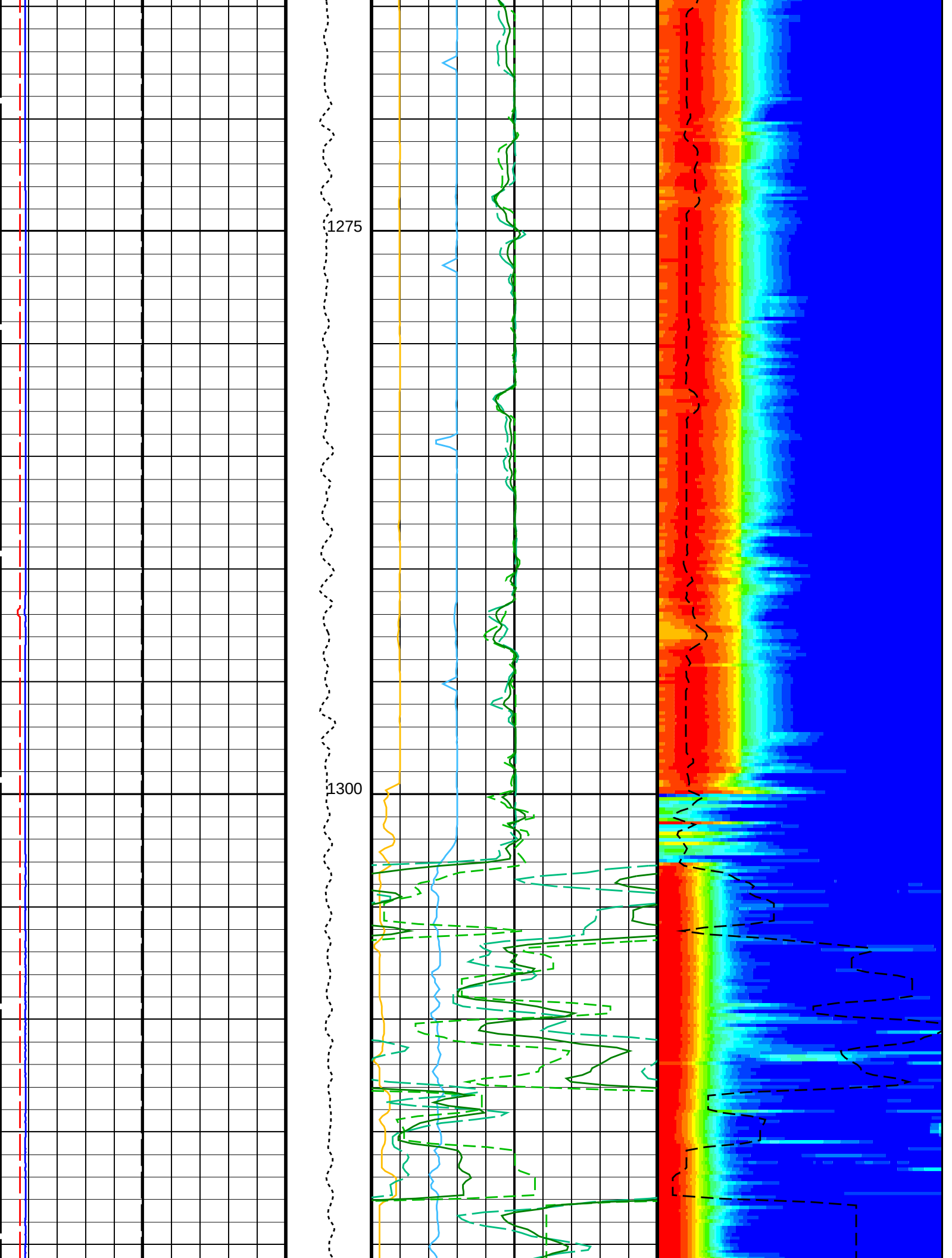
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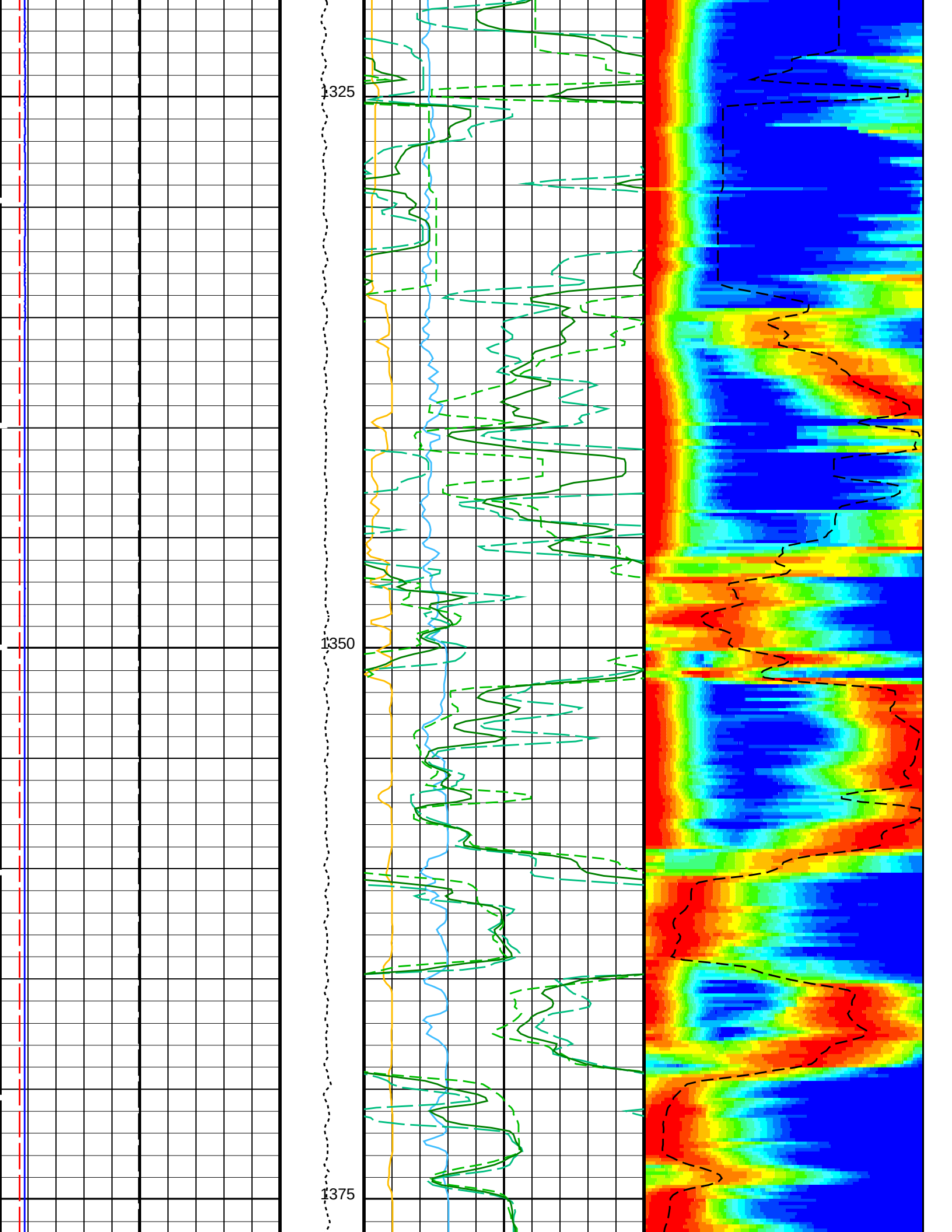
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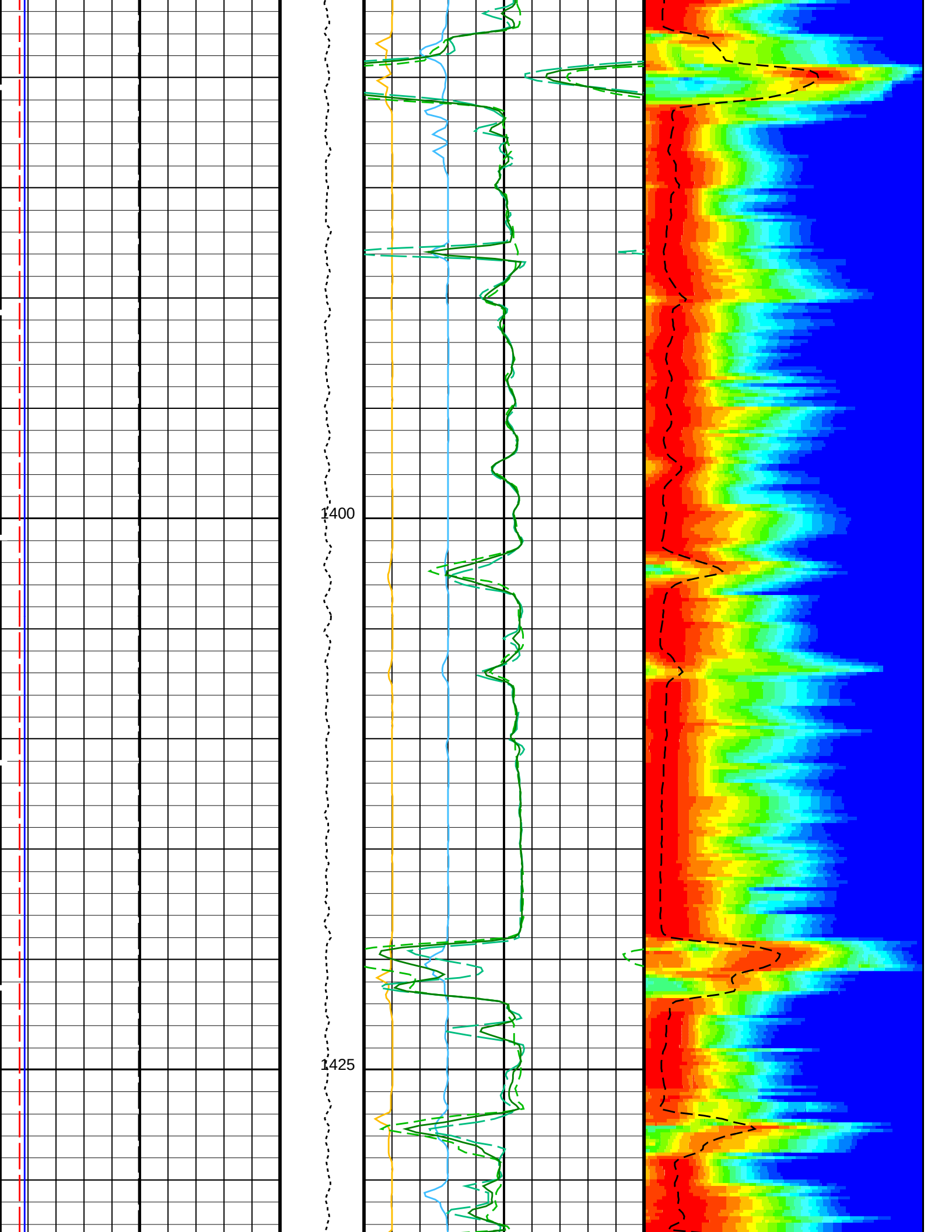
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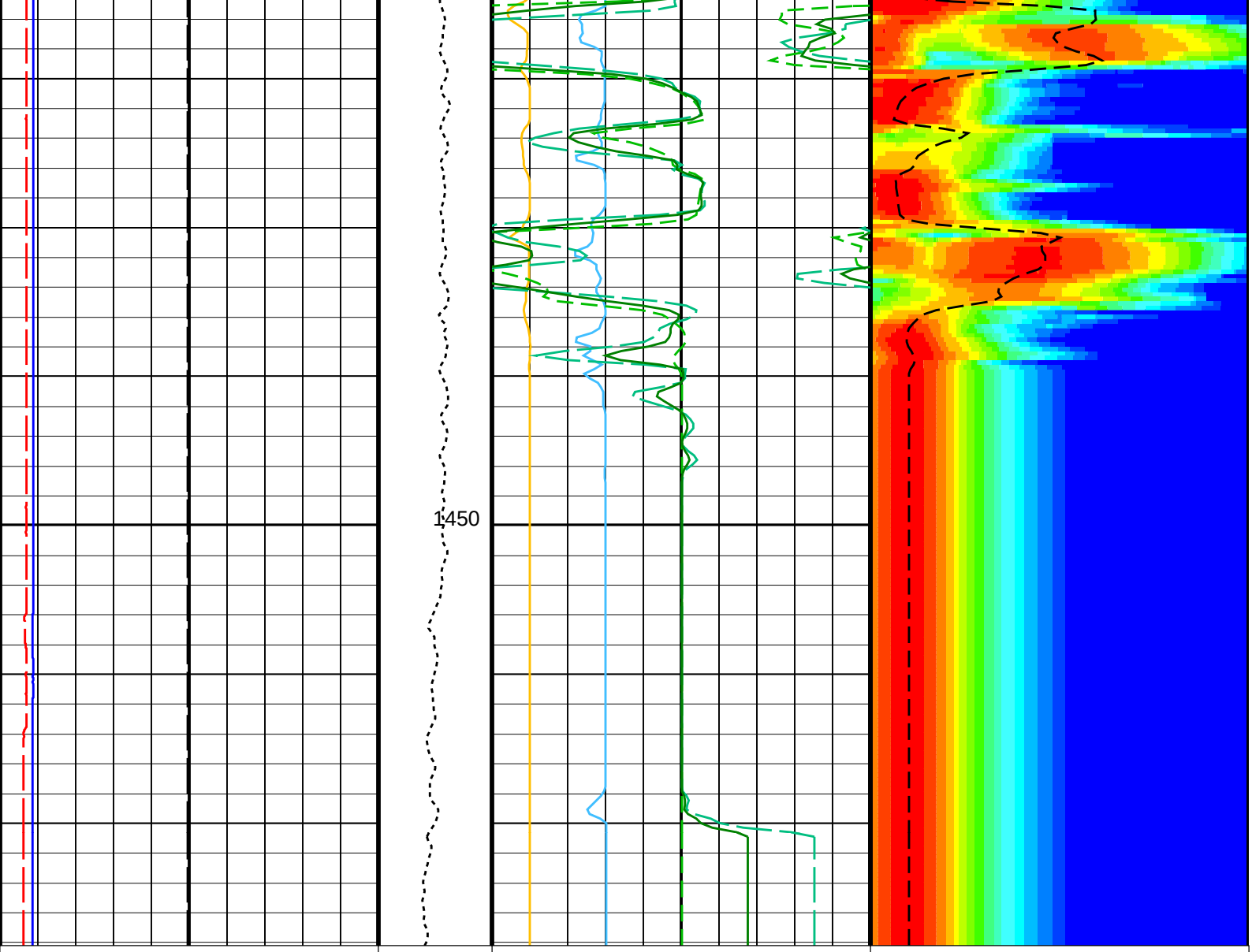


Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	Peak Coherence / RA − Stoneley (CHR3) 0 (−−−−) 10
Caliper 1 (C1) 0 (IN) 20		Peak Coherence / TA − Stoneley (CHT3) −2 (−−−−) 8
Caliper 2 (C2) 0 (IN) 20		Delta−T Stoneley / RA (DT3R) 440 (US/F) 40
		Delta−T Stoneley / TA (DT3T) 440 (US/F) 40
		Delta−T Stoneley (DTST) 440 (US/F) 40

Delta−T Stoneley / RA (DT3R) 180 (US/F) 780	
Min Amplitude Max Rec.Array Stoneley Slow Proj. CVDL (SPR3) 180 (US/F) 780	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US

DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM3	DSST Sonic Acquisition Mode 3 − Monopole Mode for Stoneley	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status − Monopole Stoneley	255	
SBO3	STC Search Band Offset − Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth − Monopole Stoneley	6000	US
SFC3	STC Formation Character − Monopole Stoneley	SELECTABLE	
SFM3	STC Filter − Monopole Stoneley	B.5−1.5K	
SLL3	STC Slowness Lower Limit − Monopole Stoneley	180	US/F
SST3	STC Slowness Step − Monopole Stoneley	4	US/F
SSW3	STC Source Waveform − Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit − Monopole Stoneley	210	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F
SUL3	STC Slowness Upper Limit − Monopole Stoneley	780	US/F
SWD3	STC Slowness Width − Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill − Monopole Stoneley	0	US
TLL3	STC Time Lower Limit − Monopole Stoneley	620	US
TST3	STC Time Step − Monopole Stoneley	200	US
TUL3	STC Time Upper Limit − Monopole Stoneley	12020	US
TWD3	STC Time Width − Monopole Stoneley	2000	US
TWI3	STC Integration Time Window − Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:15

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP	PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15		
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15		

Company: International Ocean Discovery Program Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP	PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15	1464.1 M	1177.3 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

Peak Coherence / TA − P & S Shear (CHTS)
−1 (−−−−) 9

Delta−T Shear − P & S (DT4S)
440 (US/F) 40

Delta−T Shear / TA − P & S (DTTS)
440 (US/F) 40

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

Delta−T Comp − P & S (DT4P)
440 (US/F) 40

Delta−T Comp / TA − P & S (DTTP)
440 (US/F) 40

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

Caliper 2 (C2)
0 (IN) 20

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

Min Amplitude Max

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

Caliper 1 (C1)
0 (IN) 20

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

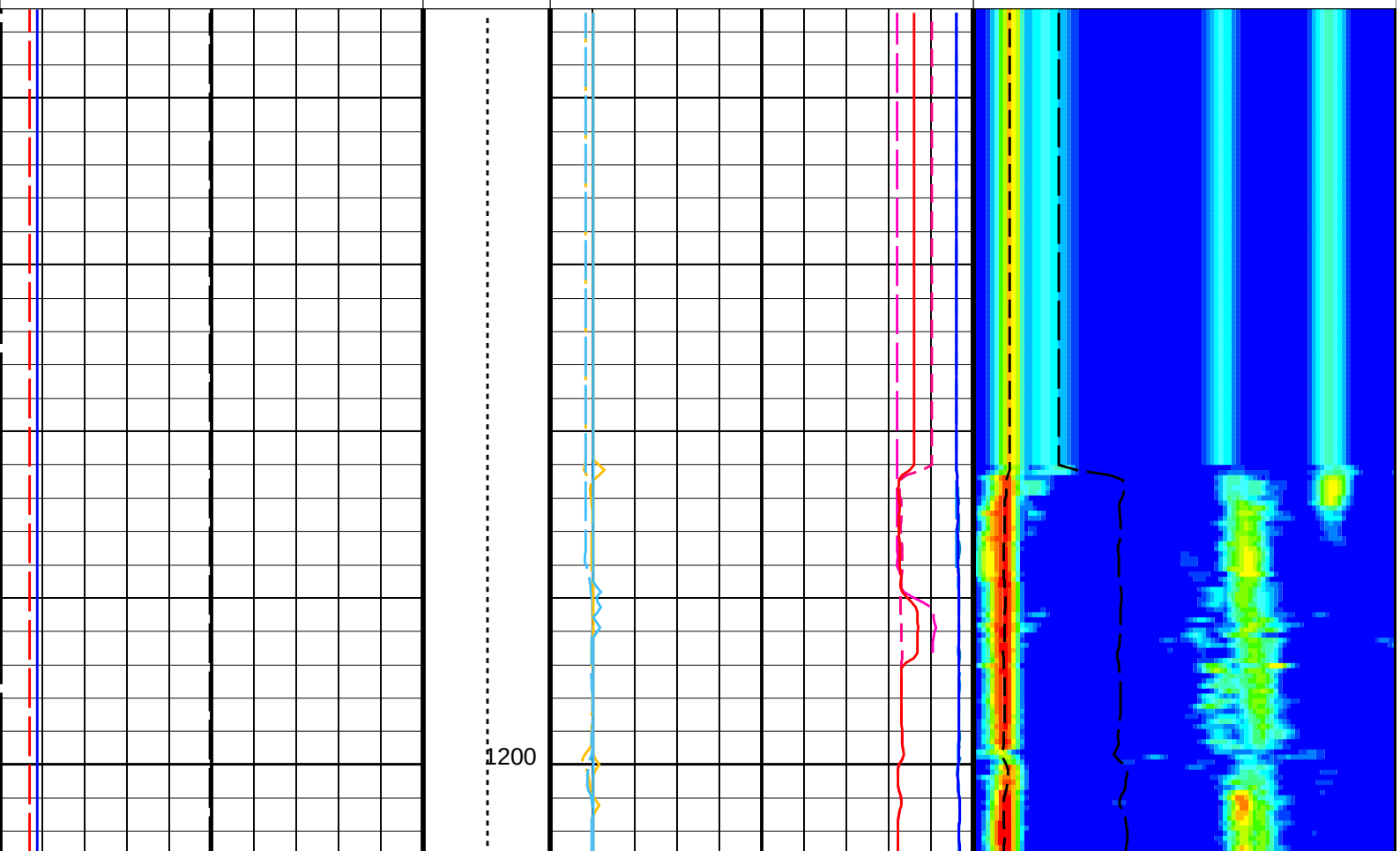
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

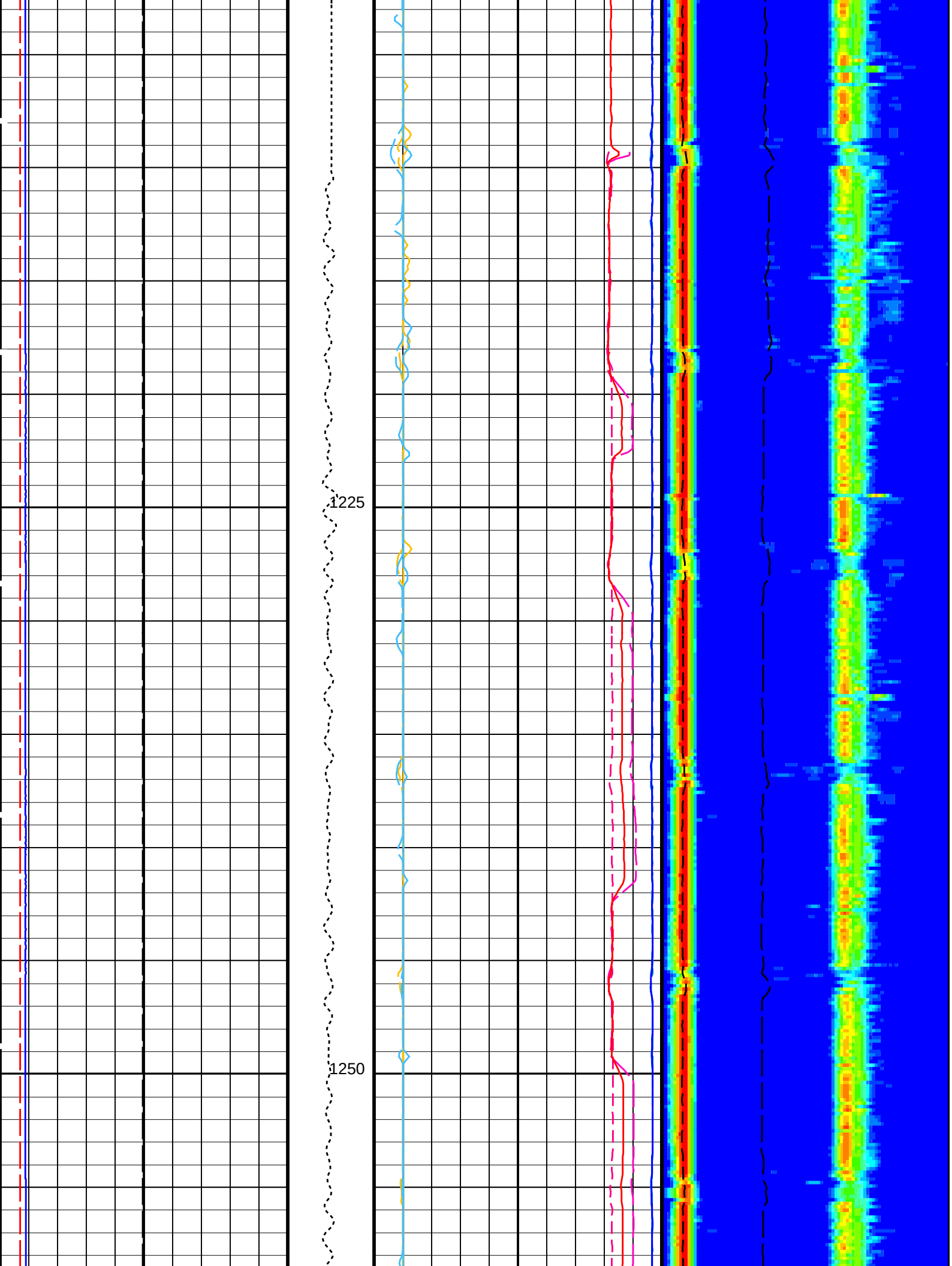
Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

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

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

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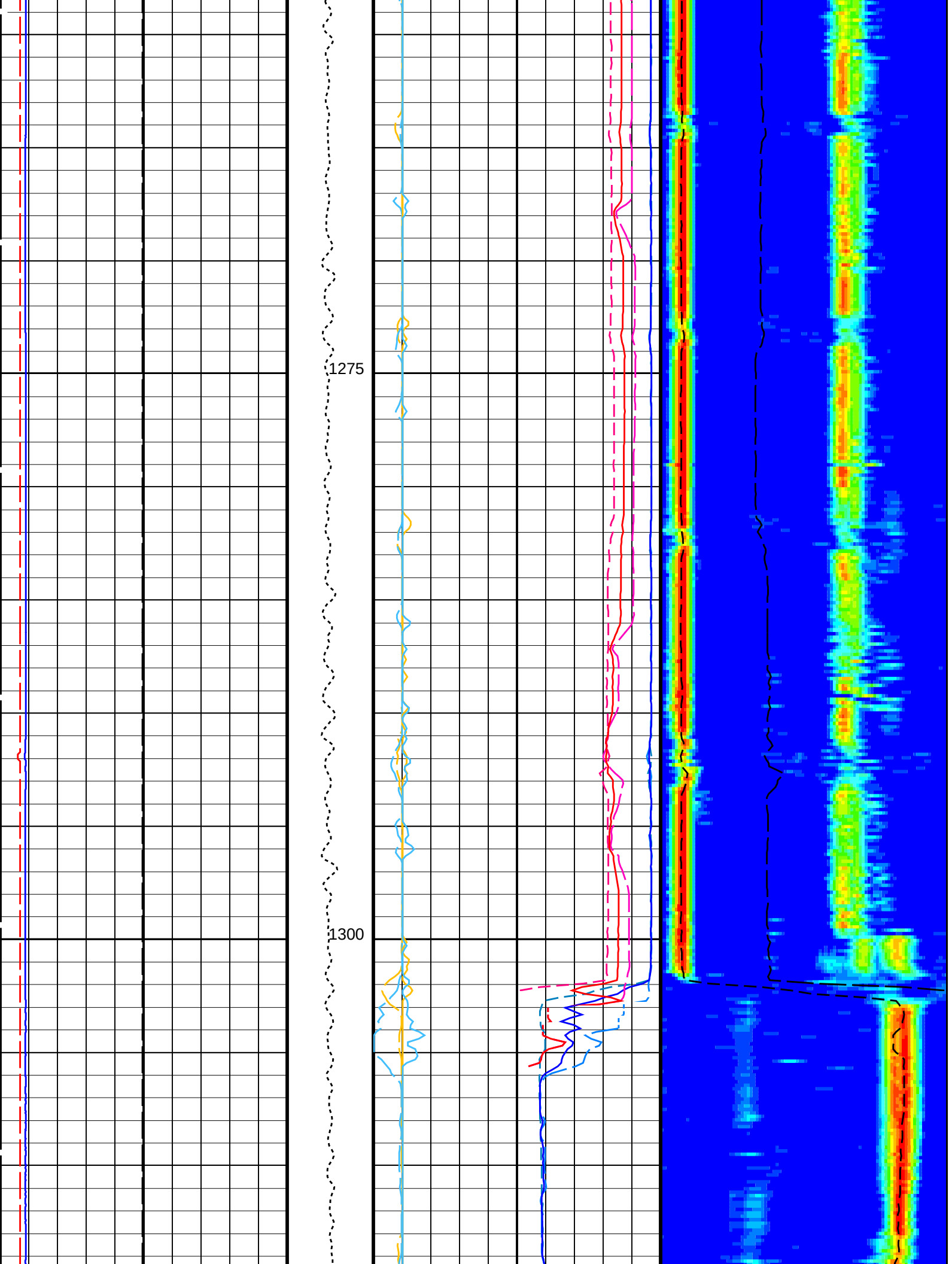
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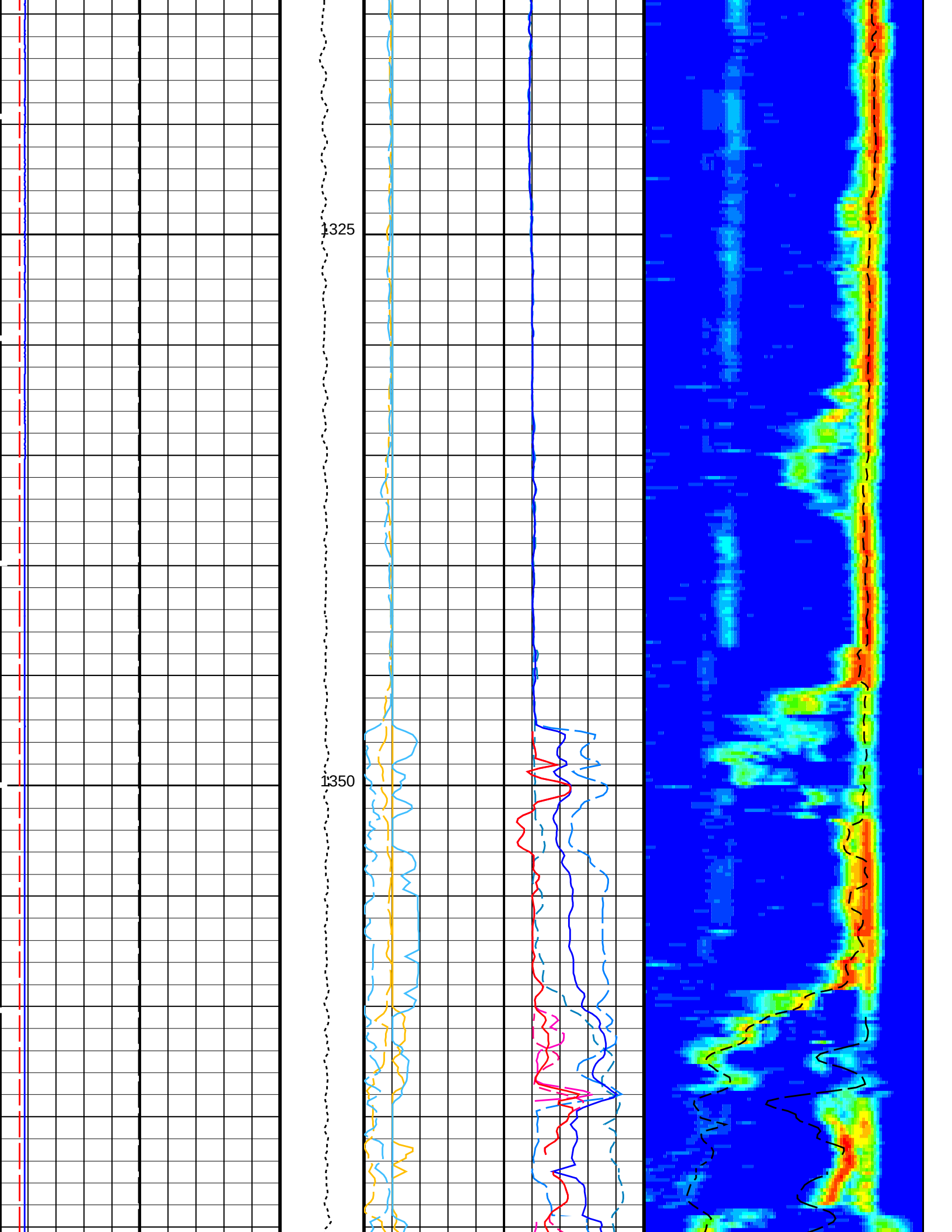
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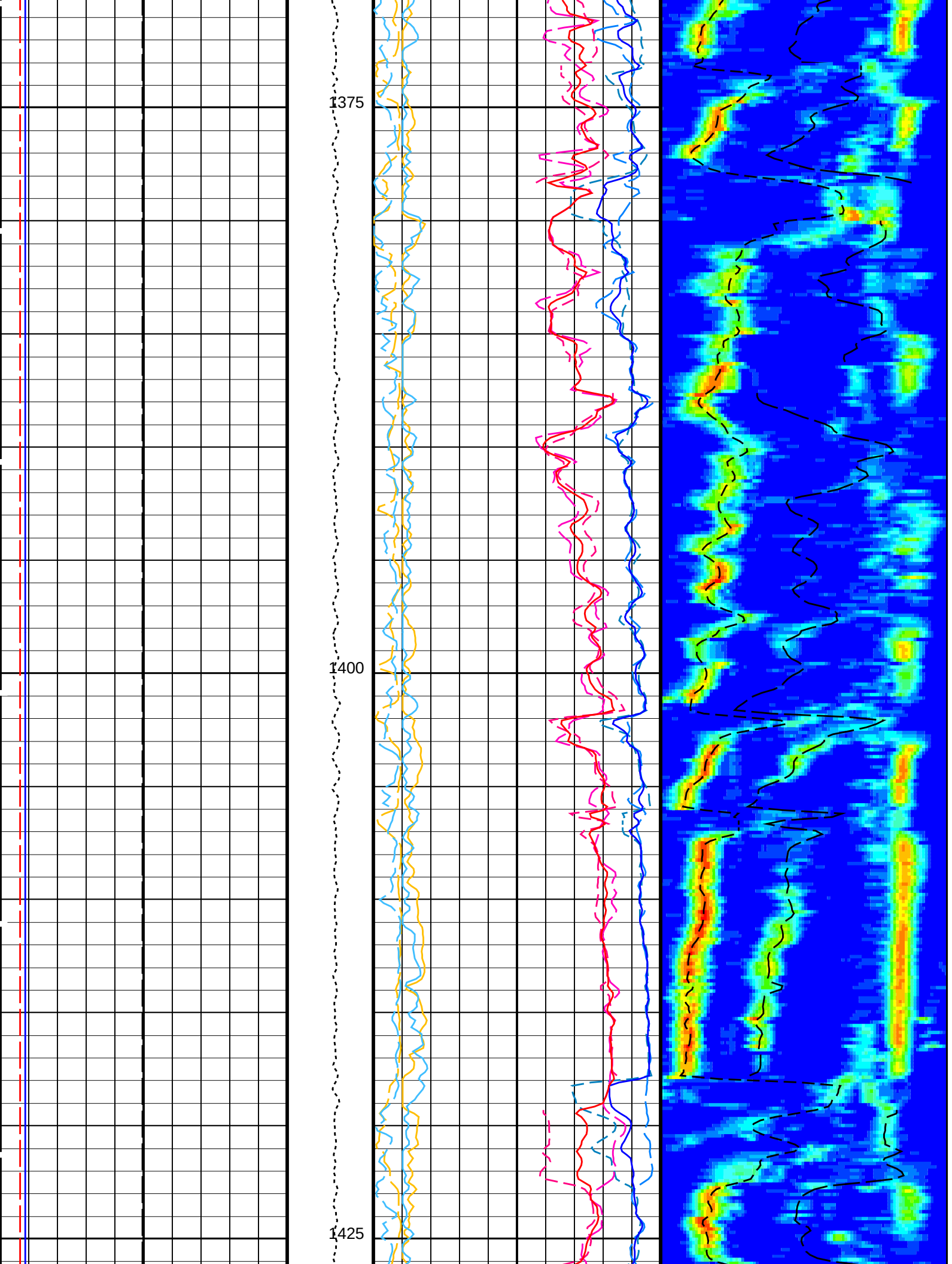
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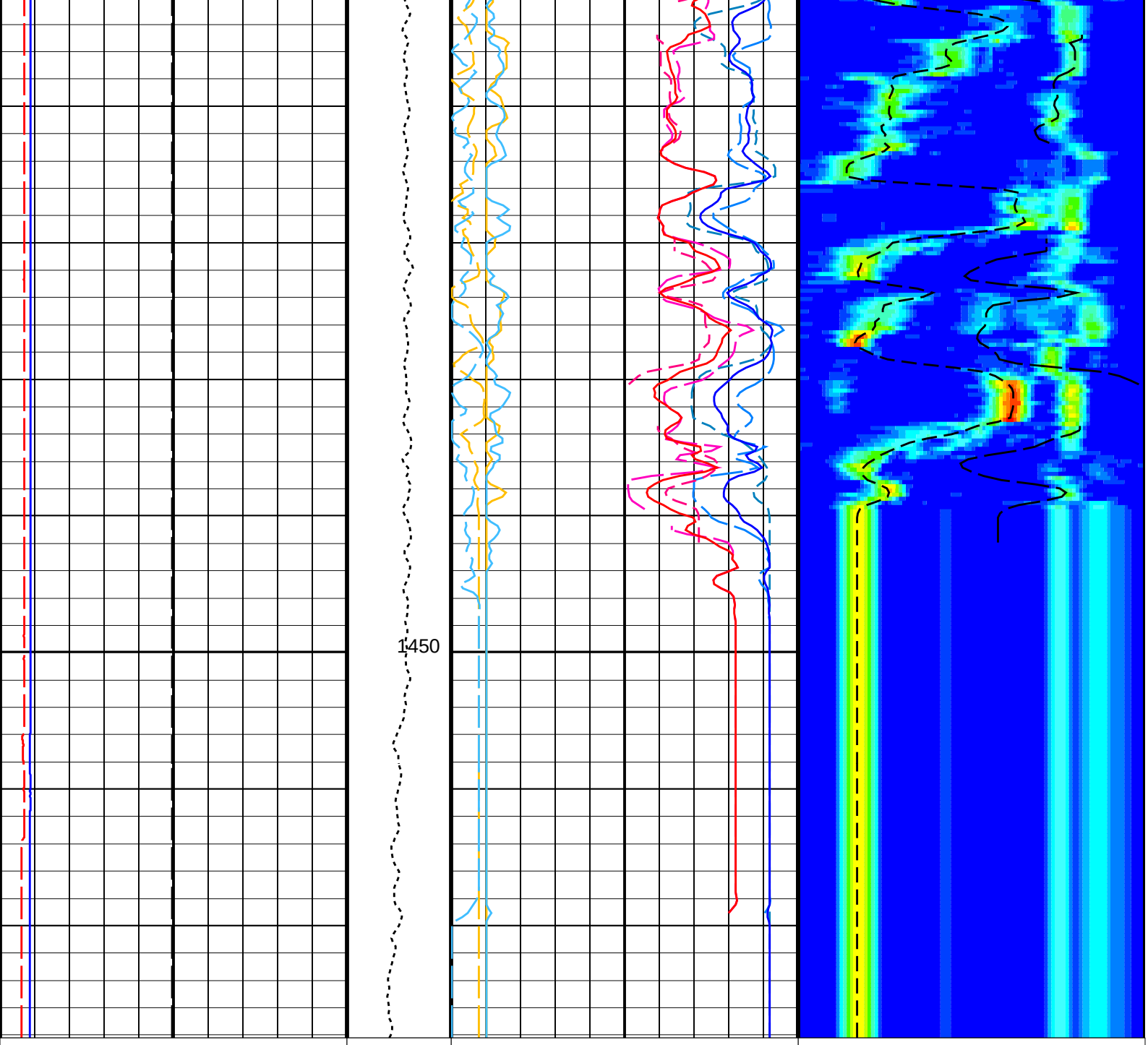


Bit Size (BS)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

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

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

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

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

Delta−T Comp / TA − P & S (DTTP)
440 (US/F) 40

Delta−T Comp − P & S (DT4P)
440 (US/F) 40

Delta−T 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 − P & S (DTRS)		
440	(US/F)	40

Delta−T Shear / TA − P & S (DTTS)		
440	(US/F)	40

Delta−T Shear − P & S (DT4S)		
440	(US/F)	40

Peak Coherence / TA − P & S Shear (CHTS)		
−1	(−−−−)	9

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	50	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	220	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta−T Fluid	212	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio − Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio − Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 − Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	70	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW4	STC Source Waveform − Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit − Monopole Stoneley	210	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST4	STC Time Step − Monopole P&S	50	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI4	STC Integration Time Window − Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_033LUP	PRODUCER	09−Sep−2021 17:12	1464.1 M	1177.3 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_034PUP	FN:41	PRODUCER	09−Sep−2021 17:15
RTB	FMS_DSI_NGS_034PUP	FN:42	PRODUCER	09−Sep−2021 17:15

Schlumberger

First Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

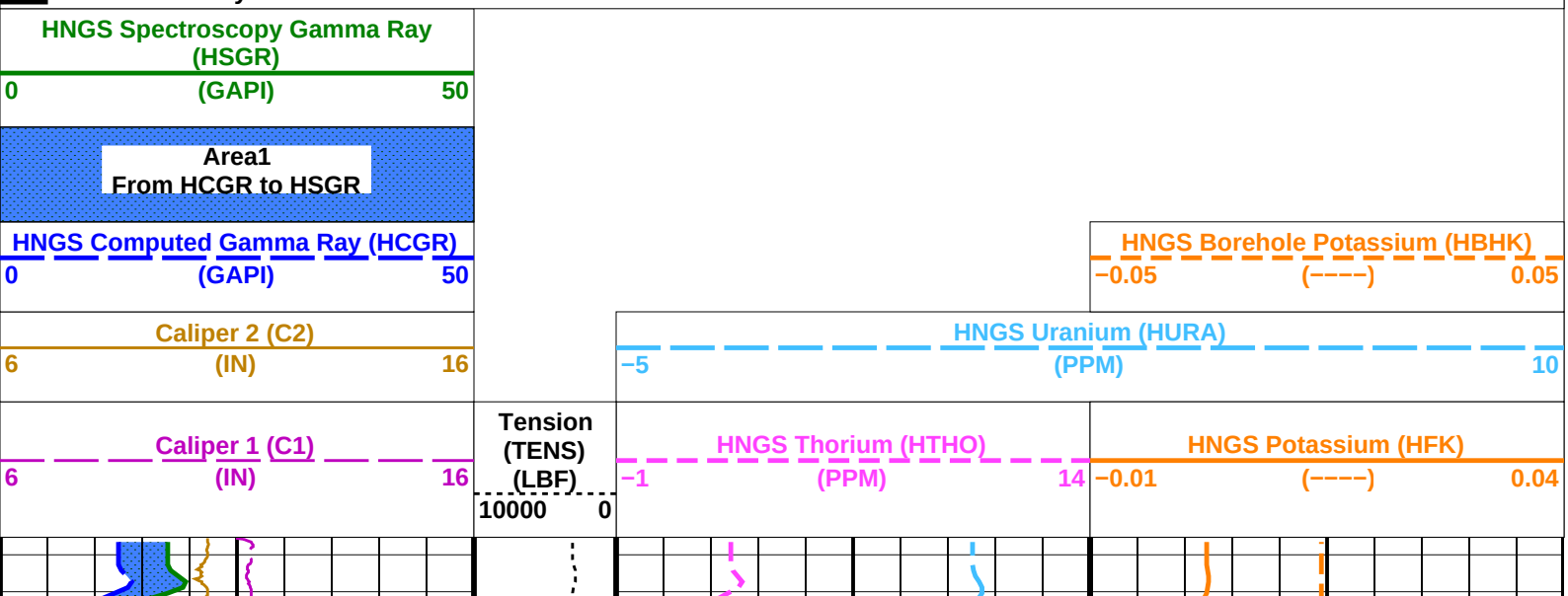
DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M

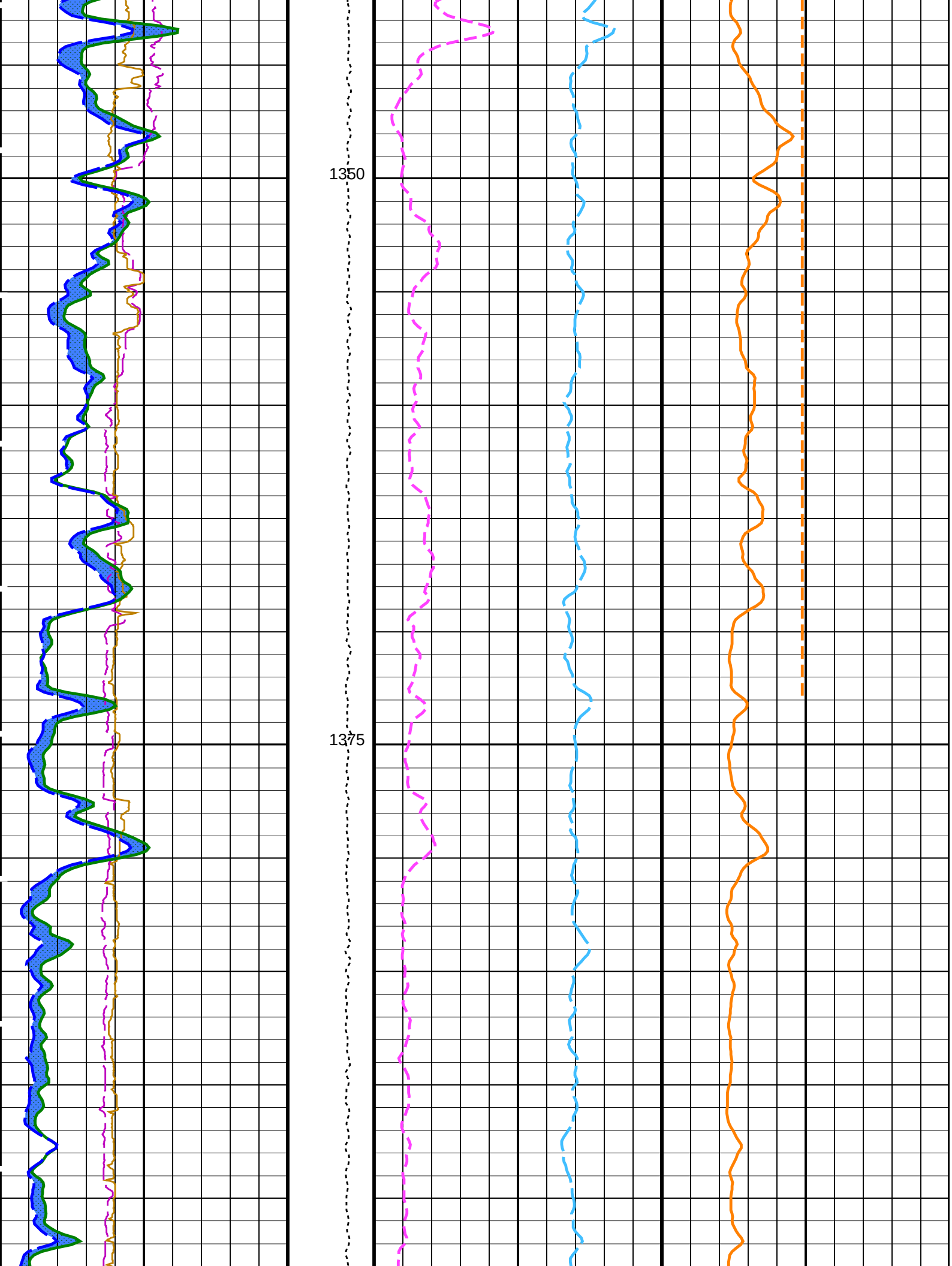
OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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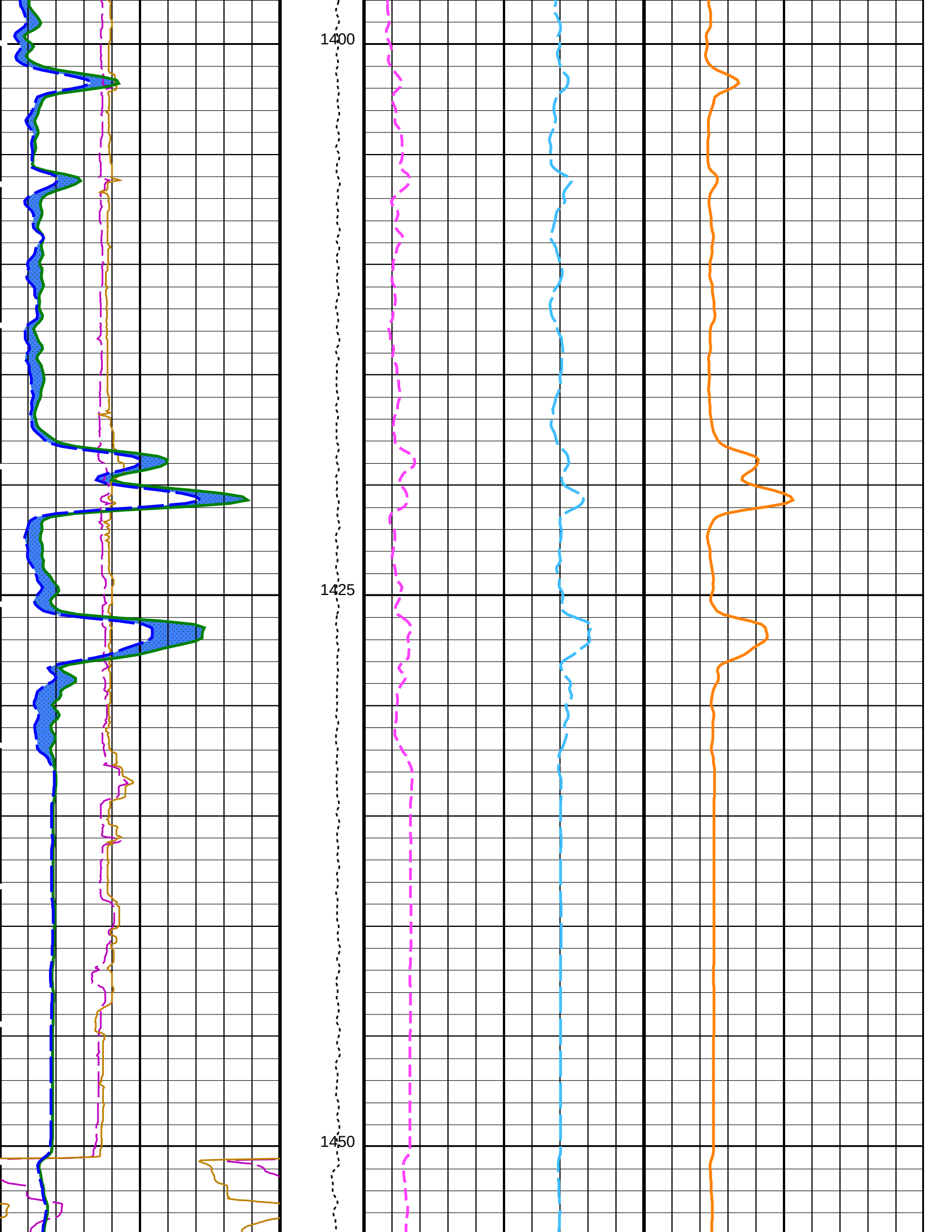
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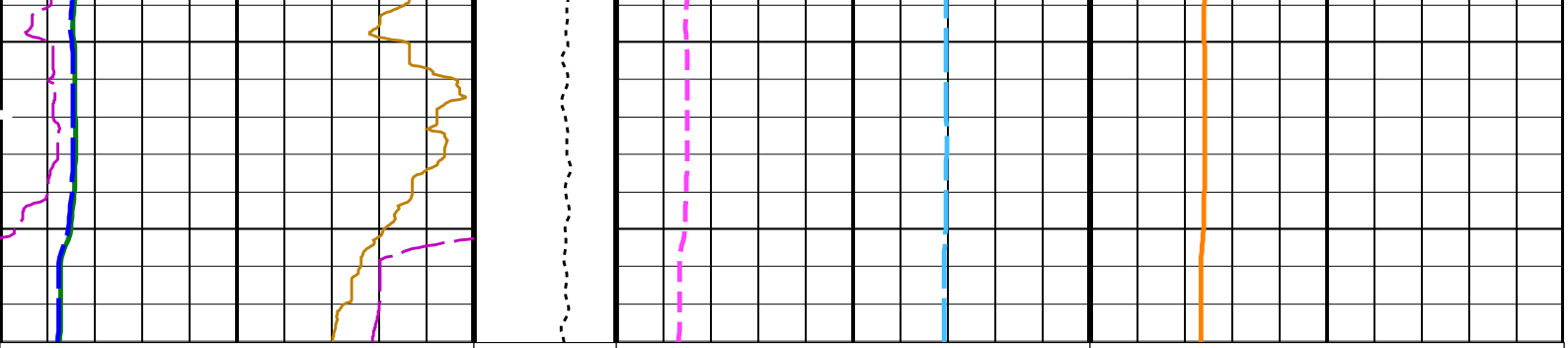


Caliper 1 (C1)
6 (IN) 16

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
−1 (PPM) 14

HNGS Potassium (HFK)
−0.01 (−−−−) 0.04

Caliper 2 (C2)
6 (IN) 16

HNGS Uranium (HURA)
−5 (PPM) 10

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 50

HNGS Borehole Potassium (HBHK)
−0.05 (−−−−) 0.05

Area1
From HCGR to HSGR

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 50

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.0031761	
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	1.00712	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03739	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187

HNGS−BA	19C0−187		DTC−H	19C0−187		

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17		

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

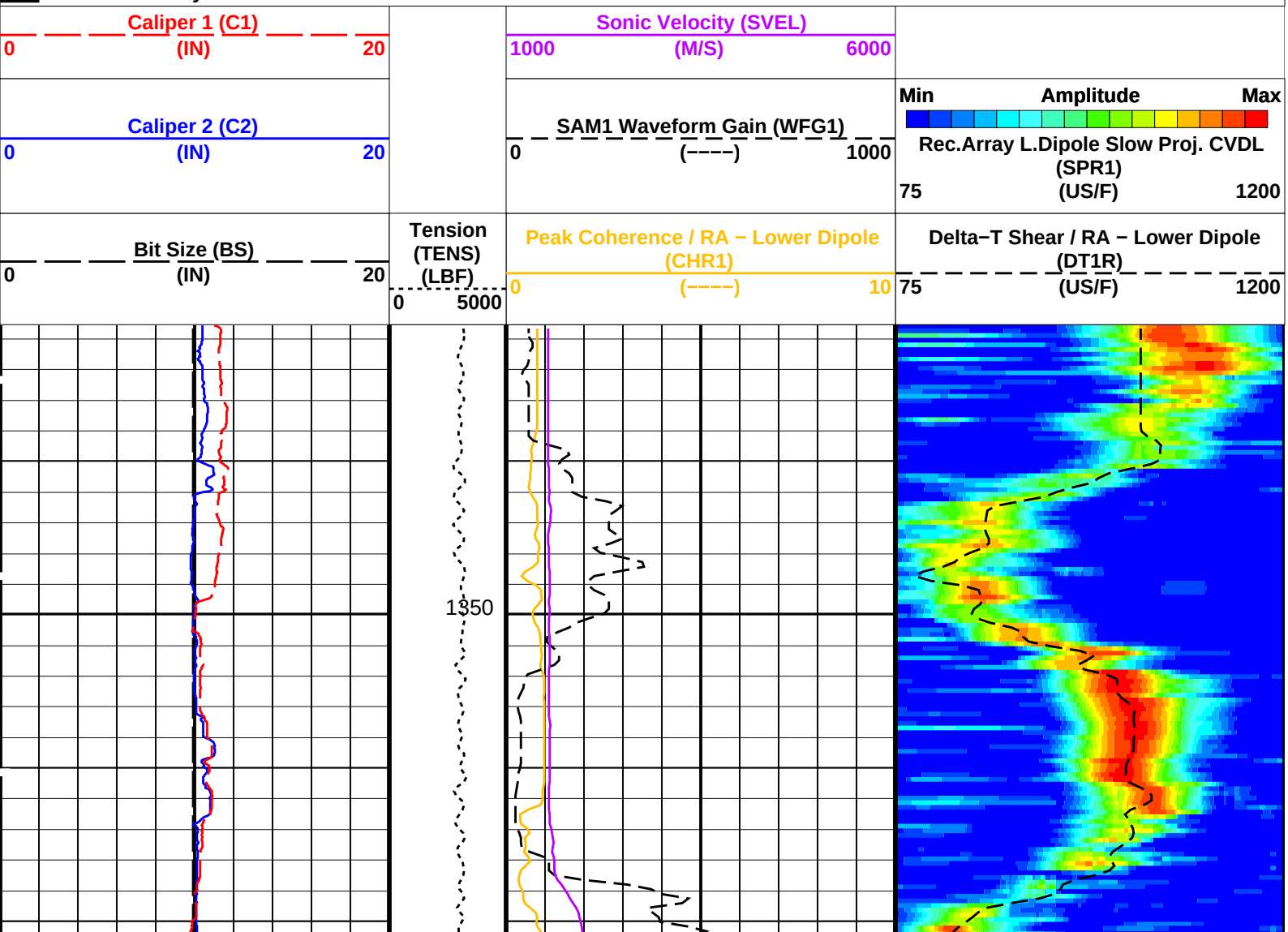
DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M

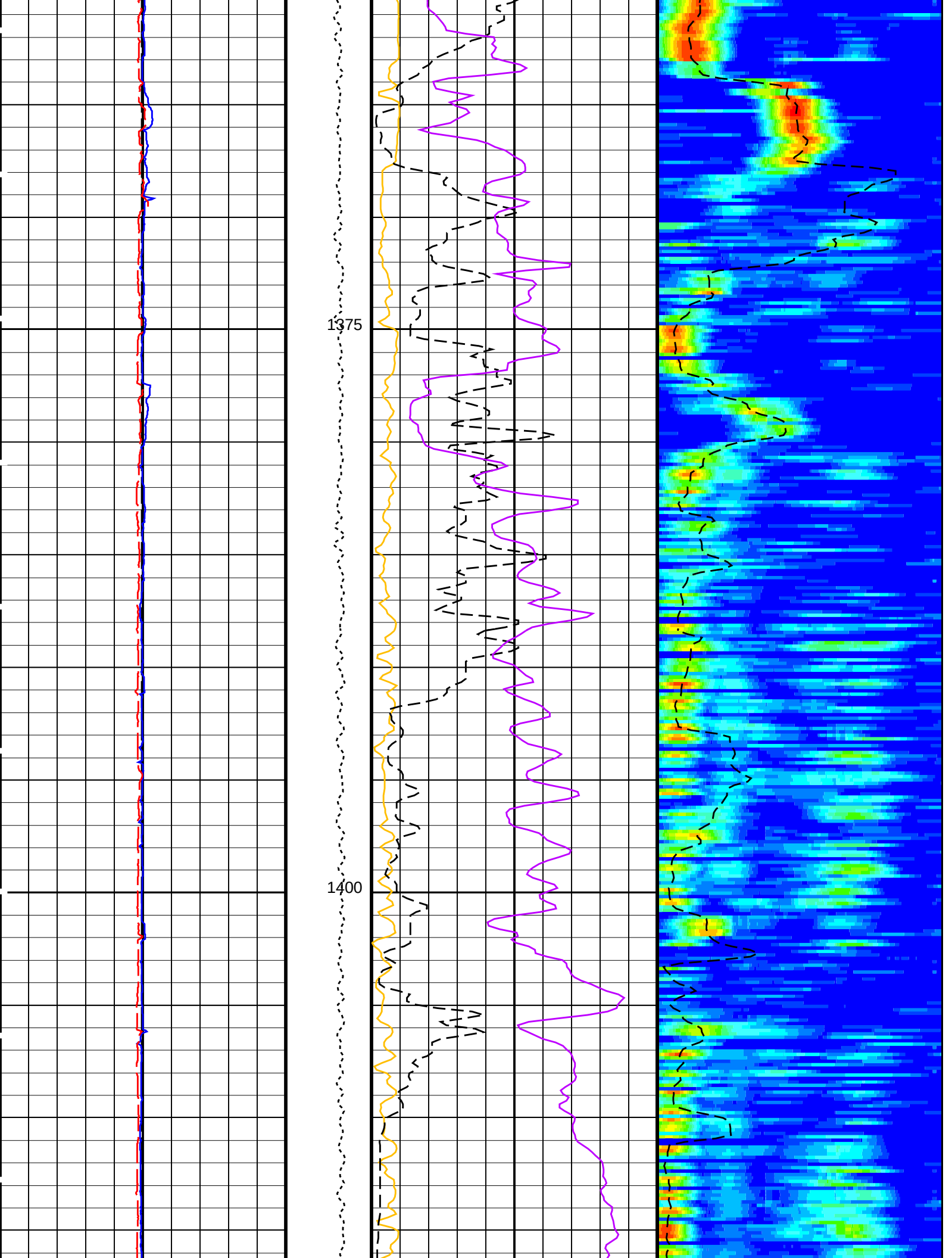
OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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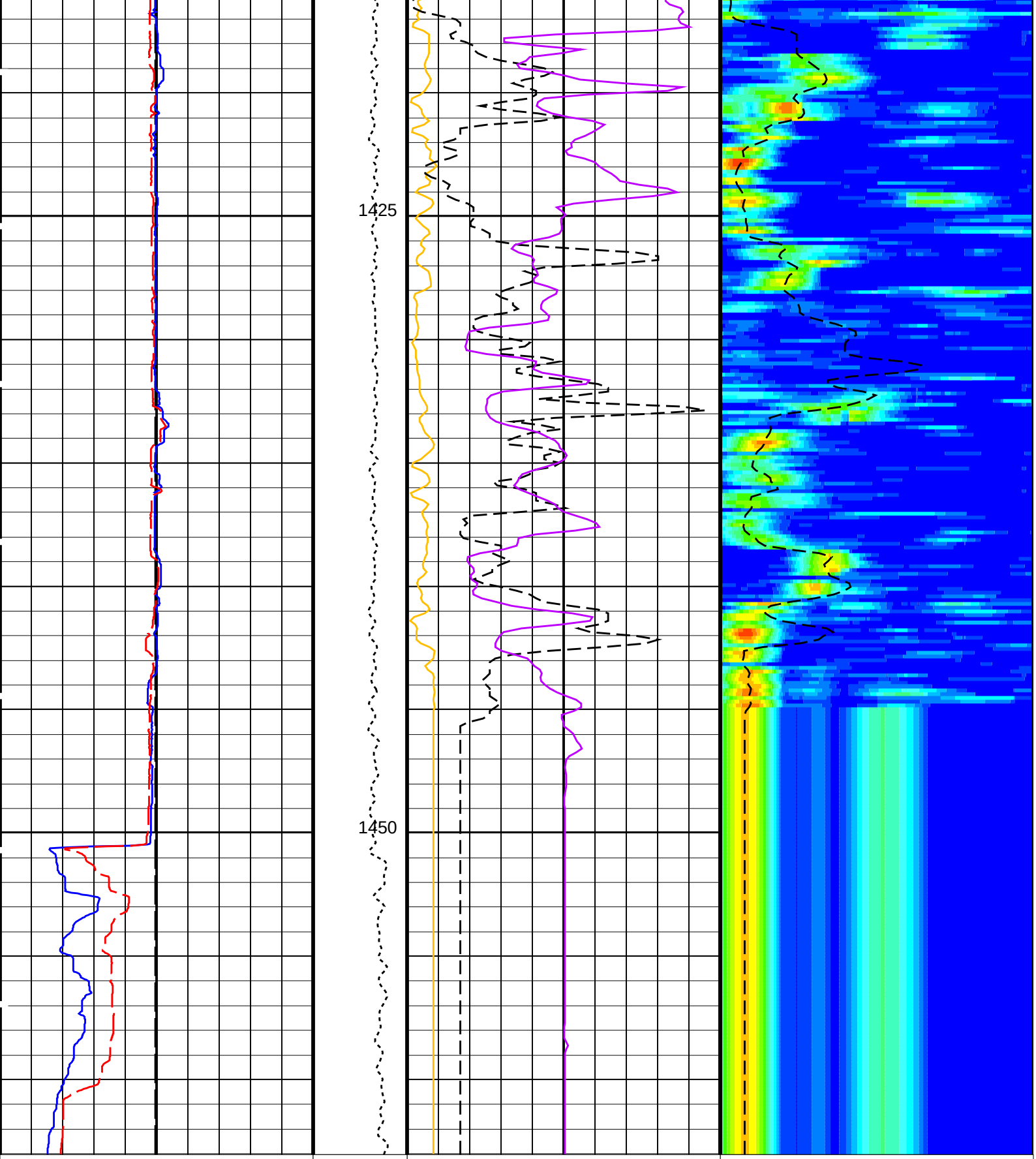
1400



Bit Size (BS)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)

Tension (TENS) (LBF)
0 5000

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

SAM1 Waveform Gain (WFG1)
0 (----) 1000

Sonic Velocity (SVEL)

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

0	(IN)	20	1000	(M/S)	6000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE1	Digitizing Delay 1	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1050	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 − Lower Dipole Mode	LFD_EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status − Lower Dipole	255	
SBO1	STC Search Band Offset − Lower Dipole	3000	US
SBW1	STC Search Bandwidth − Lower Dipole	8000	US
SFC1	STC Formation Character − Lower Dipole	SELECTABLE	
SFM1	STC Filter − Lower Dipole	B.3−1.5K	
SLL1	STC Slowness Lower Limit − Lower Dipole	40	US/F
SST1	STC Slowness Step − Lower Dipole	4	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit − Lower Dipole	1400	US/F
SWD1	STC Slowness Width − Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill − Lower Dipole	0	US
TLL1	STC Time Lower Limit − Lower Dipole	600	US
TST1	STC Time Step − Lower Dipole	200	US
TUL1	STC Time Upper Limit − Lower Dipole	20440	US
TWD1	STC Time Width − Lower Dipole	2000	US
TWI1	STC Integration Time Window − Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_LOWER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

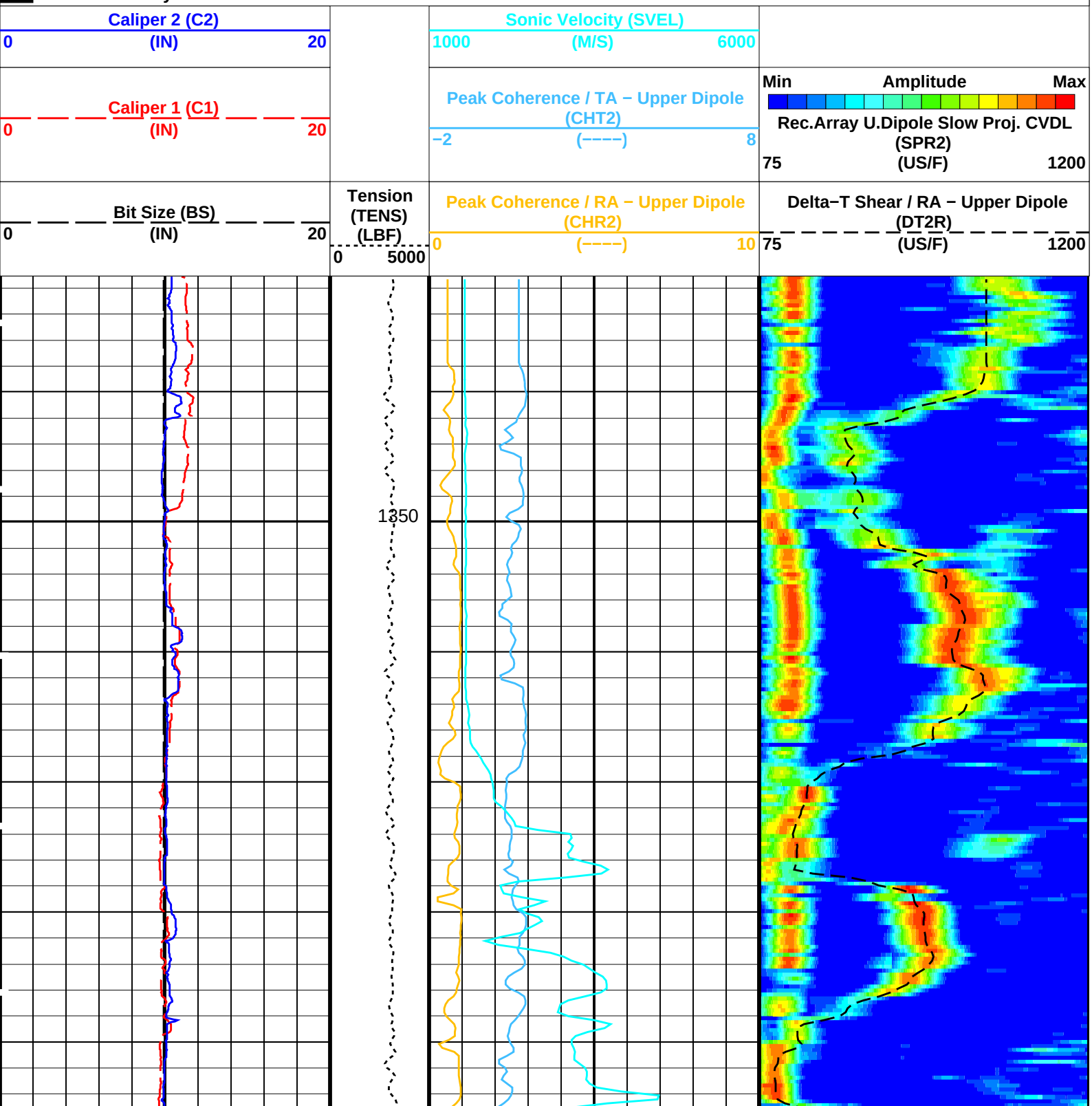
DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M

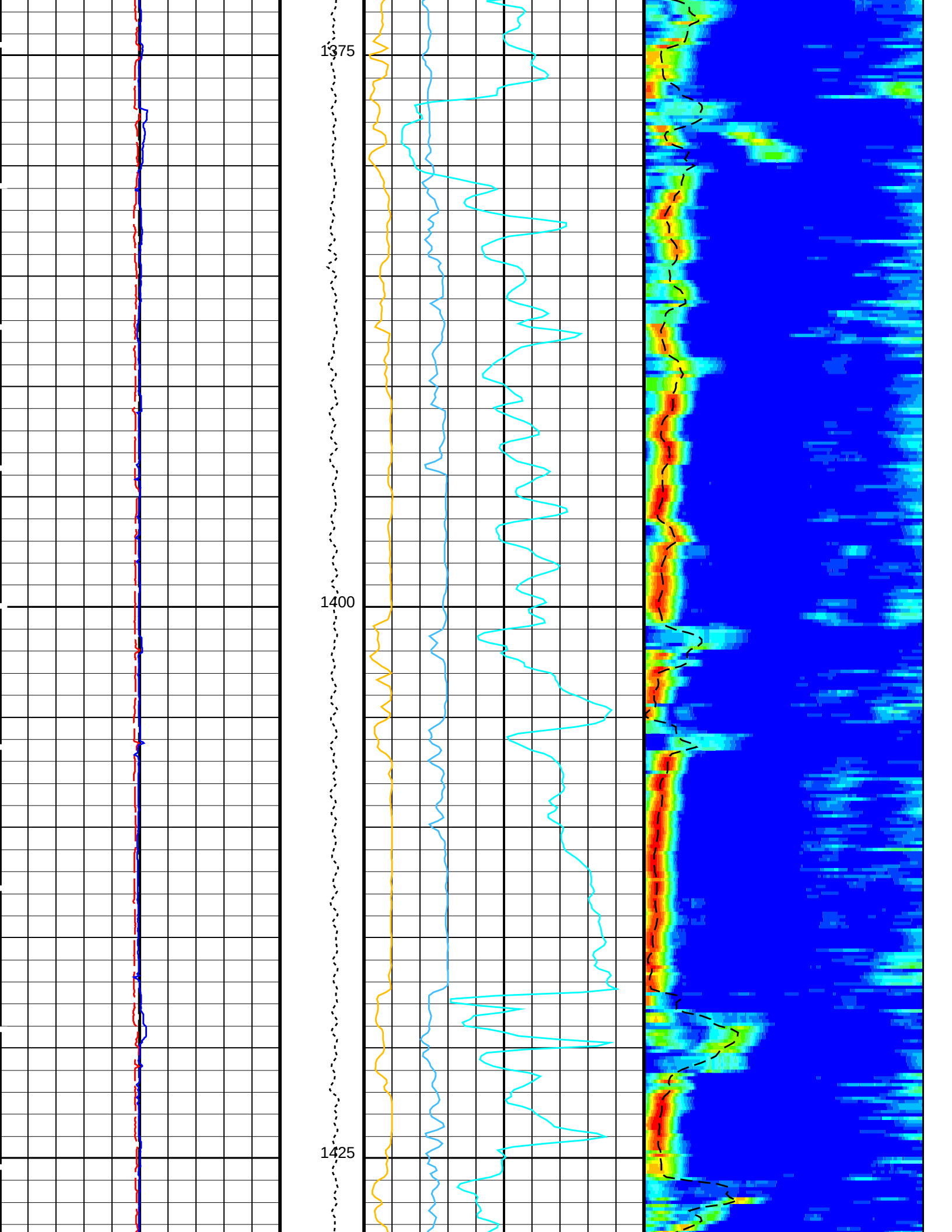
OP System Version: 19C0−187

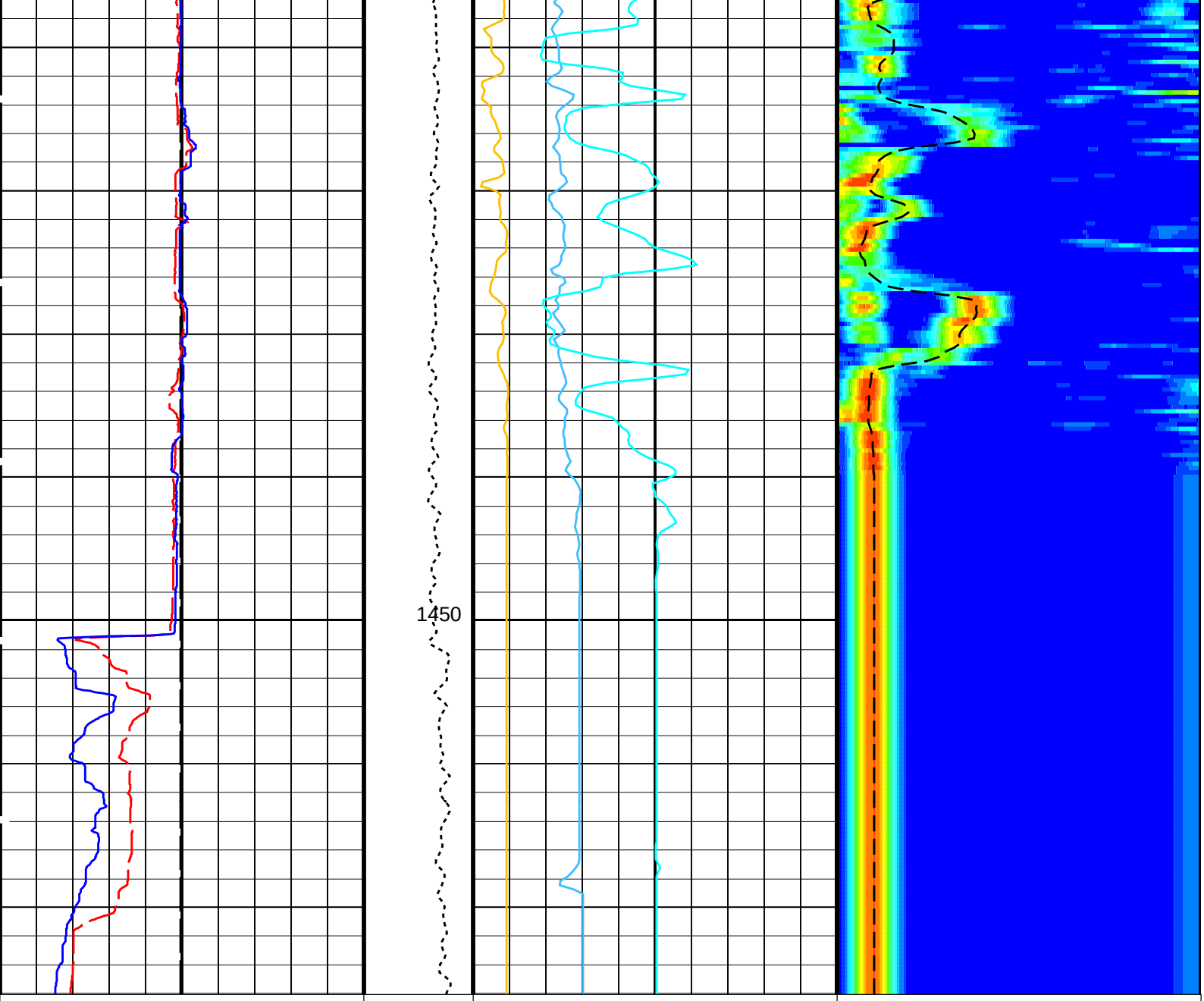
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S




1375
1400
1425



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	Peak Coherence / RA − Upper Dipole (CHR2) 0 (−−−−) 10	Delta−T Shear / RA − Upper Dipole (DT2R) 75 (US/F) 1200
Caliper 1 (C1) 0 (IN) 20		Peak Coherence / TA − Upper Dipole (CHT2) −2 (−−−−) 8	Min Amplitude Max Rec.Array U.Dipole Slow Proj. CVDL (SPR2) 75 (US/F) 1200
Caliper 2 (C2) 0 (IN) 20		Sonic Velocity (SVEL) 1000 (M/S) 6000	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1050	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US

DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 − Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status − Upper Dipole	255	
SBO2	STC Search Band Offset − Upper Dipole	3000	US
SBW2	STC Search Bandwidth − Upper Dipole	8000	US
SFC2	STC Formation Character − Upper Dipole	SELECTABLE	
SFM2	STC Filter − Upper Dipole	B1−2K	
SLL2	STC Slowness Lower Limit − Upper Dipole	40	US/F
SST2	STC Slowness Step − Upper Dipole	4	US/F
SSW2	STC Source Waveform − Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit − Upper Dipole	1400	US/F
SWD2	STC Slowness Width − Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill − Upper Dipole	0	US
TLL2	STC Time Lower Limit − Upper Dipole	600	US
TST2	STC Time Step − Upper Dipole	200	US
TUL2	STC Time Upper Limit − Upper Dipole	20440	US
TWD2	STC Time Width − Upper Dipole	2000	US
TWI2	STC Integration Time Window − Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17		

Company: International Ocean Discovery Program Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

Delta−T Stoneley (DTST)
440 (US/F) 40

Delta−T Stoneley / TA (DT3T)
440 (US/F) 40

Delta−T Stoneley / RA (DT3R)
440 (US/F) 40

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Peak Coherence / TA − Stoneley (CHT3)
−2 (−−−−) 8

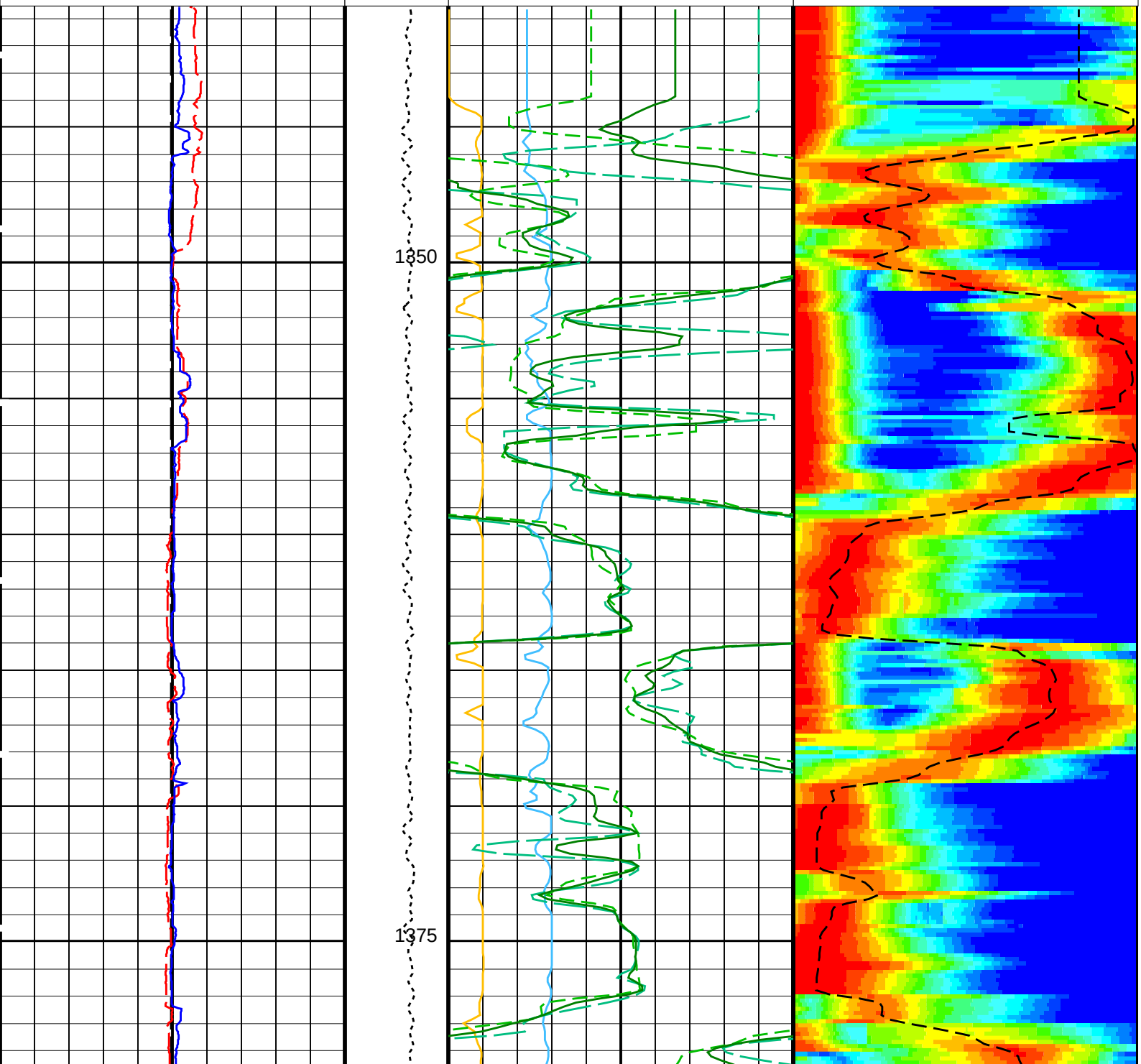
Min Amplitude Max
Rec.Array Stoneley Slow Proj. CVDL (SPR3)
180 (US/F) 780

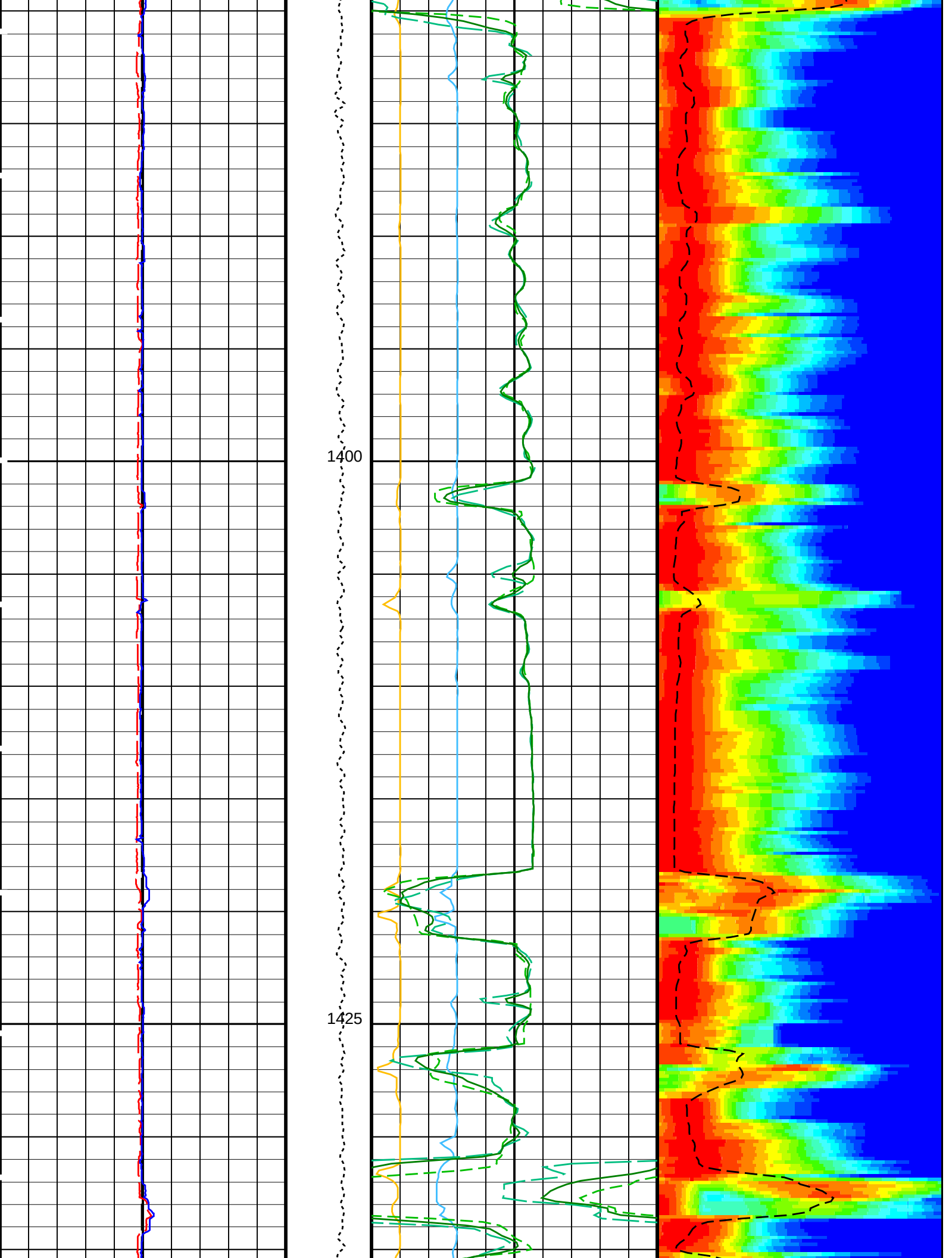
Bit Size (BS)
0 (IN) 20

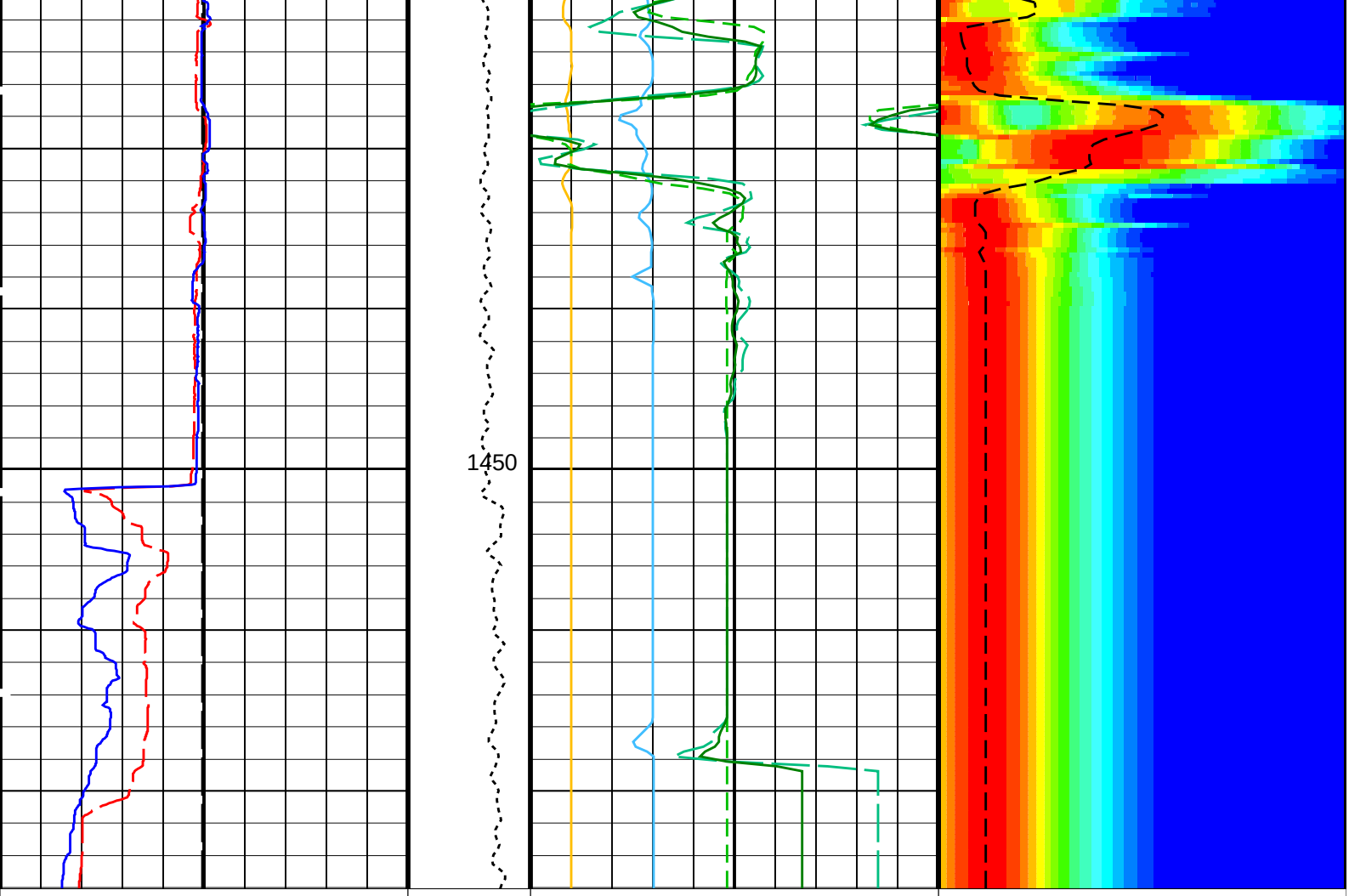
Tension (TENS)
(LBF)
0 5000

Peak Coherence / RA − Stoneley (CHR3)
0 (−−−−) 10

Delta−T Stoneley / RA (DT3R)
180 (US/F) 780




1400
1425



Bit Size (BS) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	Peak Coherence / RA − Stoneley (CHR3) 0 (−−−−) 10
Caliper 1 (C1) 0 (IN) 20		Peak Coherence / TA − Stoneley (CHT3) −2 (−−−−) 8
Caliper 2 (C2) 0 (IN) 20		Delta−T Stoneley / RA (DT3R) 440 (US/F) 40
		Delta−T Stoneley / TA (DT3T) 440 (US/F) 40
		Delta−T Stoneley (DTST) 440 (US/F) 40

Delta−T Stoneley / RA (DT3R) 180 (US/F) 780
Min Amplitude Max Rec.Array Stoneley Slow Proj. CVDL (SPR3) 180 (US/F) 780

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	

RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM3	DSST Sonic Acquisition Mode 3 − Monopole Mode for Stoneley	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status − Monopole Stoneley	255	
SBO3	STC Search Band Offset − Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth − Monopole Stoneley	6000	US
SFC3	STC Formation Character − Monopole Stoneley	SELECTABLE	
SFM3	STC Filter − Monopole Stoneley	B.5−1.5K	
SLL3	STC Slowness Lower Limit − Monopole Stoneley	180	US/F
SST3	STC Slowness Step − Monopole Stoneley	4	US/F
SSW3	STC Source Waveform − Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit − Monopole Stoneley	210	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F
SUL3	STC Slowness Upper Limit − Monopole Stoneley	780	US/F
SWD3	STC Slowness Width − Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill − Monopole Stoneley	0	US
TLL3	STC Time Lower Limit − Monopole Stoneley	620	US
TST3	STC Time Step − Monopole Stoneley	200	US
TUL3	STC Time Upper Limit − Monopole Stoneley	12020	US
TWD3	STC Time Width − Monopole Stoneley	2000	US
TWI3	STC Integration Time Window − Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17		

Company: International Ocean Discovery Program Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

Peak Coherence / TA − P & S Shear

(CHTS)
−1 (−−−−) 9

Delta−T Shear − P & S (DT4S)
440 (US/F) 40

Delta−T Shear / TA − P & S (DTTS)
440 (US/F) 40

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

Delta−T Comp − P & S (DT4P)
440 (US/F) 40

Delta−T Comp / TA − P & S (DTTP)
440 (US/F) 40

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

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

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

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

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

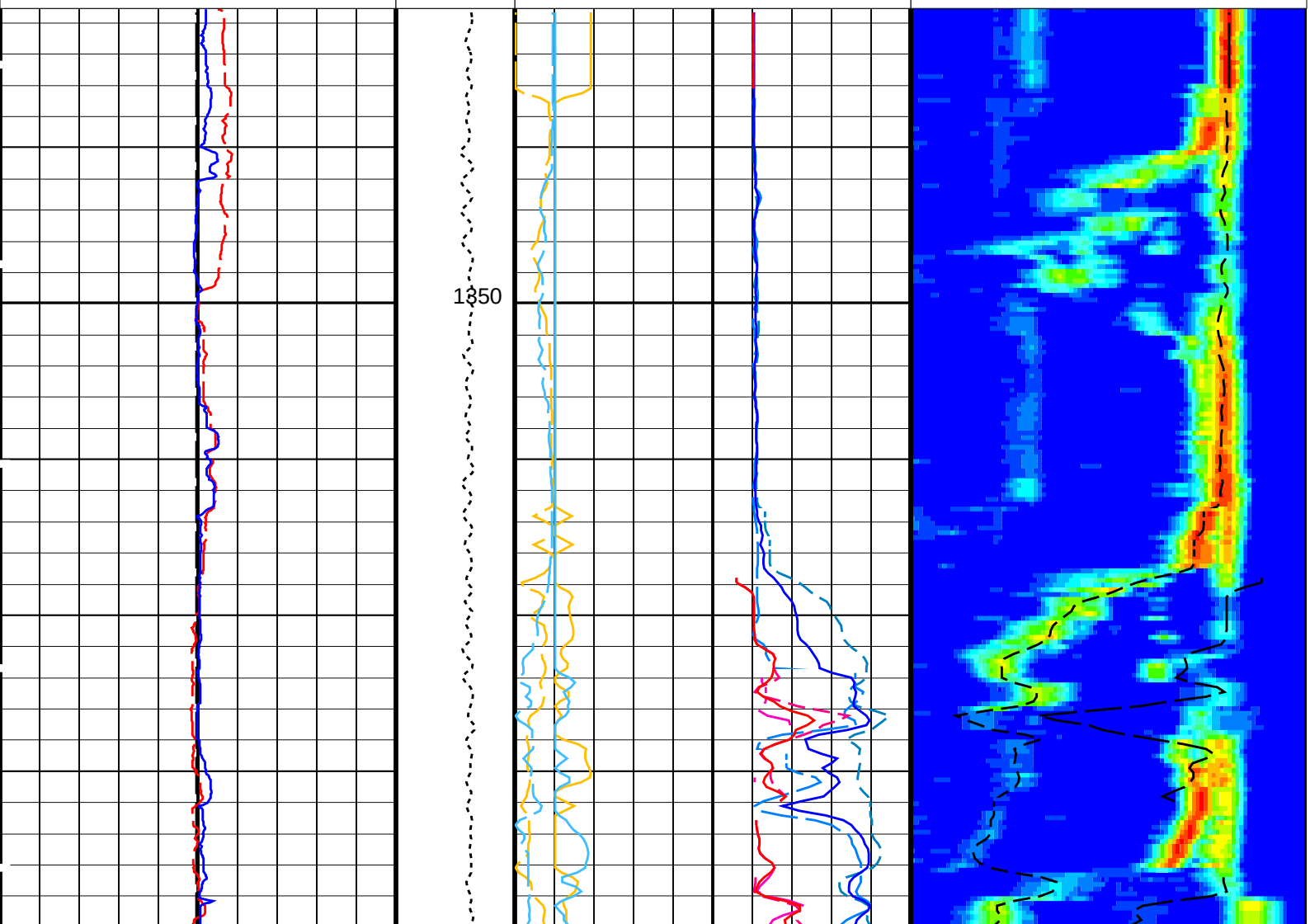
Min Amplitude Max

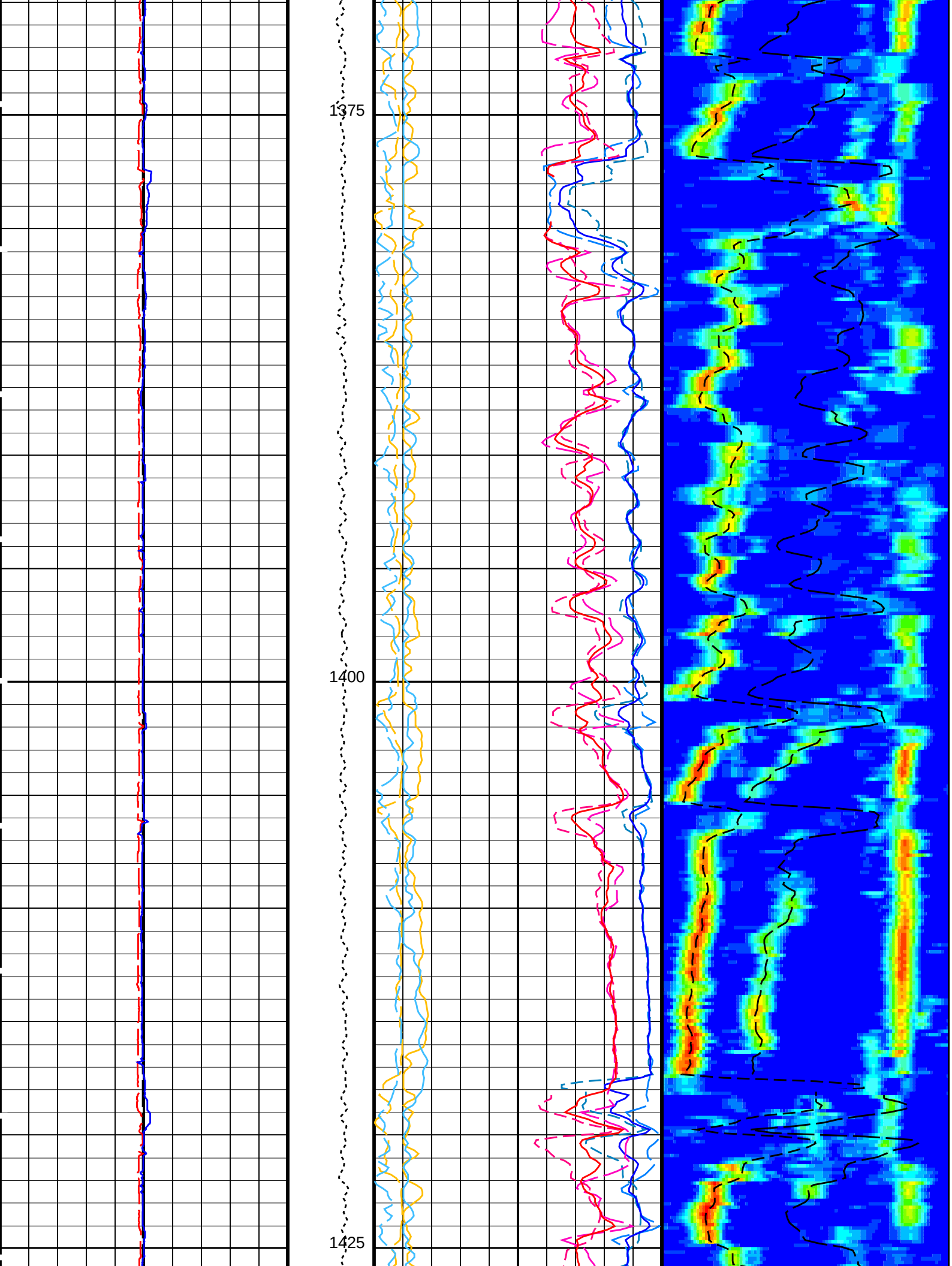
Rec.Array P&S Slow Proj. CVDL (SPR4)
40 (US/F) 240

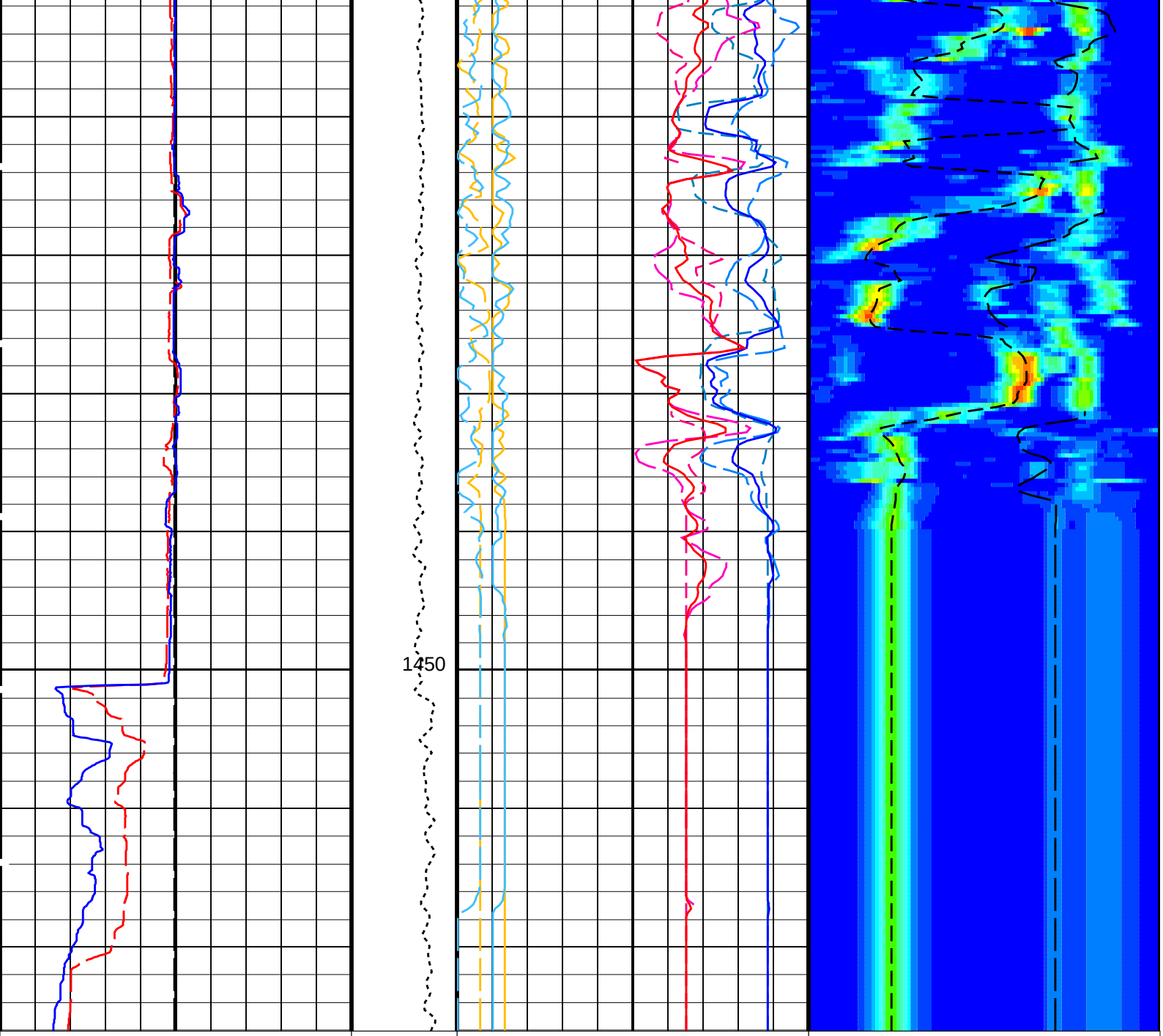
Delta−T Shear / RA − P & S (DTRS)
40 (US/F) 240

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

1350




1375
1400
1425



Bit Size (BS)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

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

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

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

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

Delta−T Comp / TA − P & S (DTTP)
440 (US/F) 40

Delta−T Comp − P & S (DT4P)
440 (US/F) 40

Delta−T Shear / RA − P & S (DTRS)

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

440	(US/F)	40

Delta−T Shear / TA − P & S (DTTS)		
440	(US/F)	40

Delta−T Shear − P & S (DT4S)		
440	(US/F)	40

Peak Coherence / TA − P & S Shear (CHTS)		
−1	(−−−−)	9

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	50	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	220	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta−T Fluid	212	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio − Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio − Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 − Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	70	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW4	STC Source Waveform − Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit − Monopole Stoneley	210	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST4	STC Time Step − Monopole P&S	50	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI4	STC Integration Time Window − Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_VDL_COLOR **Vertical Scale: 1:200** **Graphics File Created: 09−Sep−2021 17:17**

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17		

Company: International Ocean Discovery Program | Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

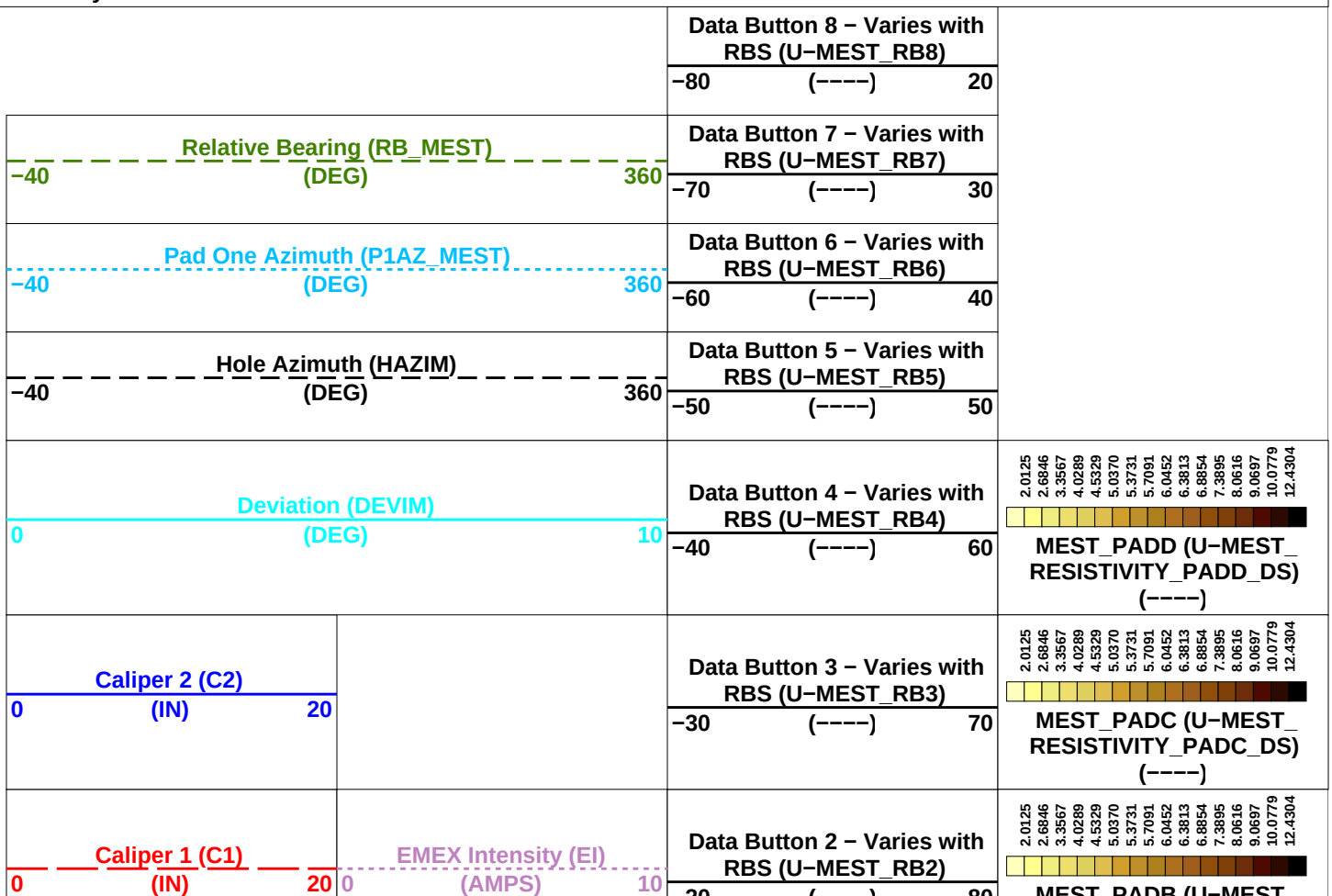
DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17	1463.0 M	1340.5 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S



−20 (−−−−) 80

RESISTIVITY_PADB_DS)
(−−−−)

Tension
(TENS)
(LBF)
0 5000

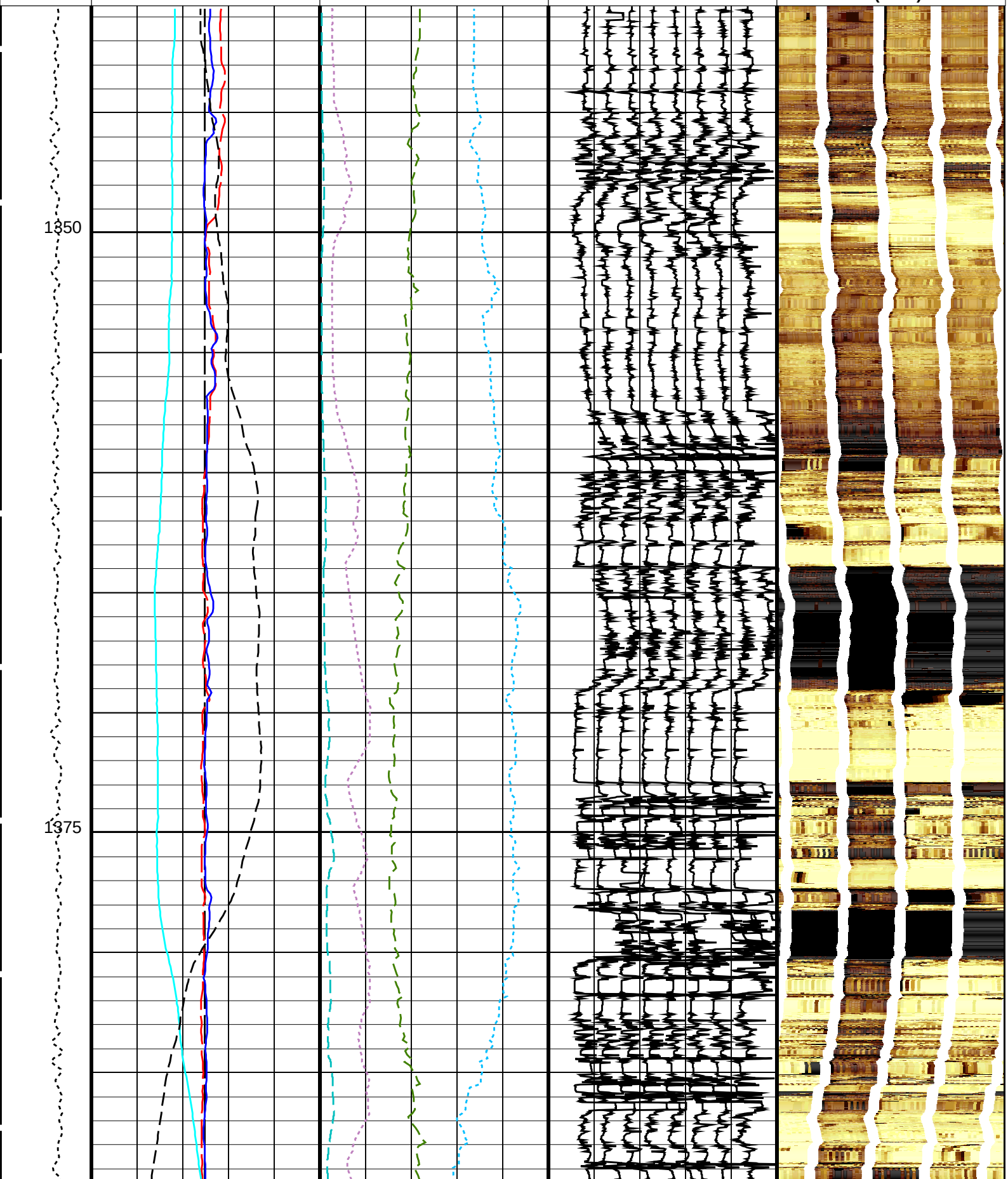
Bit Size (BS)
0 (IN) 20

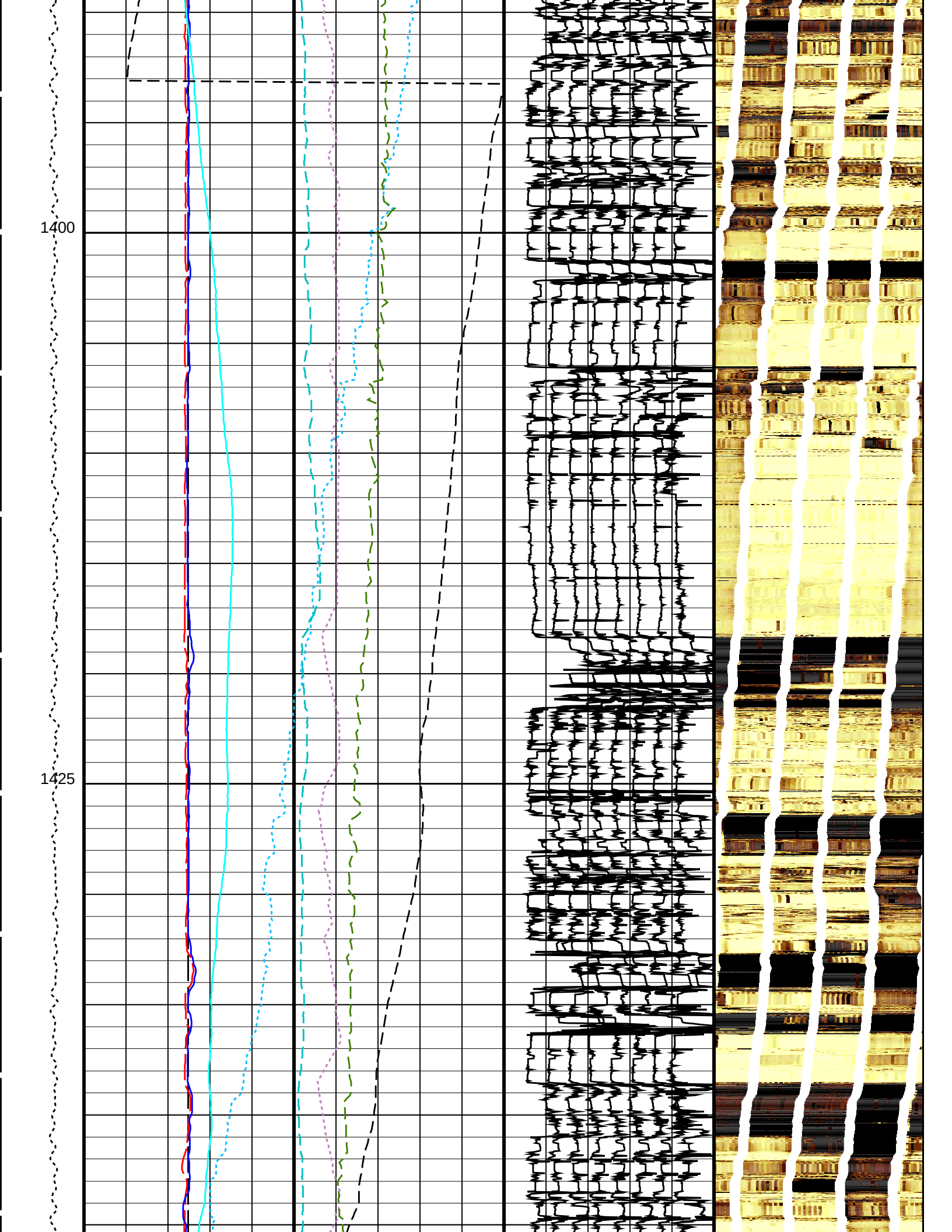
EMEX Voltage (EV)
0 (V) 50

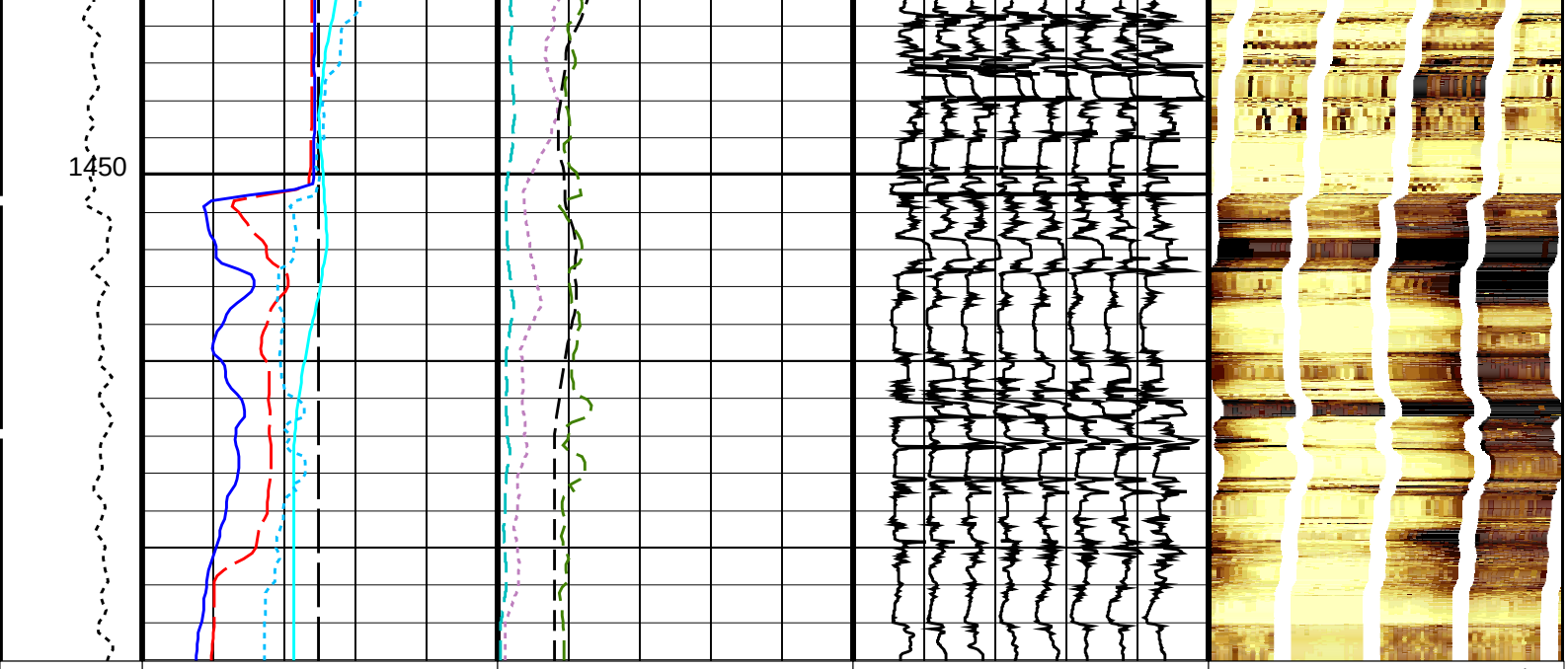
Data Button 1 − Varies with
RBS (U−MEST_RB1)
−10 (−−−−) 90

2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304

MEST_PADA (U−MEST_
RESISTIVITY_PADA_DS)
(−−−−)




1400
1425



Tension (TENS) (LBF) 0 5000	Bit Size (BS) 0 (IN) 20	EMEX Voltage (EV) 0 (V) 50	Data Button 1 − Varies with RBS (U−MEST_RB1) −10 (−−−−) 90	2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304 MEST_PADA (U−MEST_RESISTIVITY_PADA_DS) (−−−−)
	Caliper 1 (C1) 0 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	Data Button 2 − Varies with RBS (U−MEST_RB2) −20 (−−−−) 80	2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304 MEST_PADB (U−MEST_RESISTIVITY_PADB_DS) (−−−−)
	Caliper 2 (C2) 0 (IN) 20		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70	2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304 MEST_PADC (U−MEST_RESISTIVITY_PADC_DS) (−−−−)
	Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60	2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304 MEST_PADD (U−MEST_RESISTIVITY_PADD_DS) (−−−−)
	Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50	
	Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40	
	Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30	
			Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value

	MEST−B: Micro Electrical Scanner − B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	1.0864	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ **Vertical Scale: 1:200** **Graphics File Created: 09−Sep−2021 17:17**

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_030LUP	FN:36	PRODUCER	09−Sep−2021 15:48	1463.0 M	1340.5 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_035PUP	FN:43	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_035PUP	FN:44	PRODUCER	09−Sep−2021 17:17		

Schlumberger

Second Pass

MAXIS Field Log

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

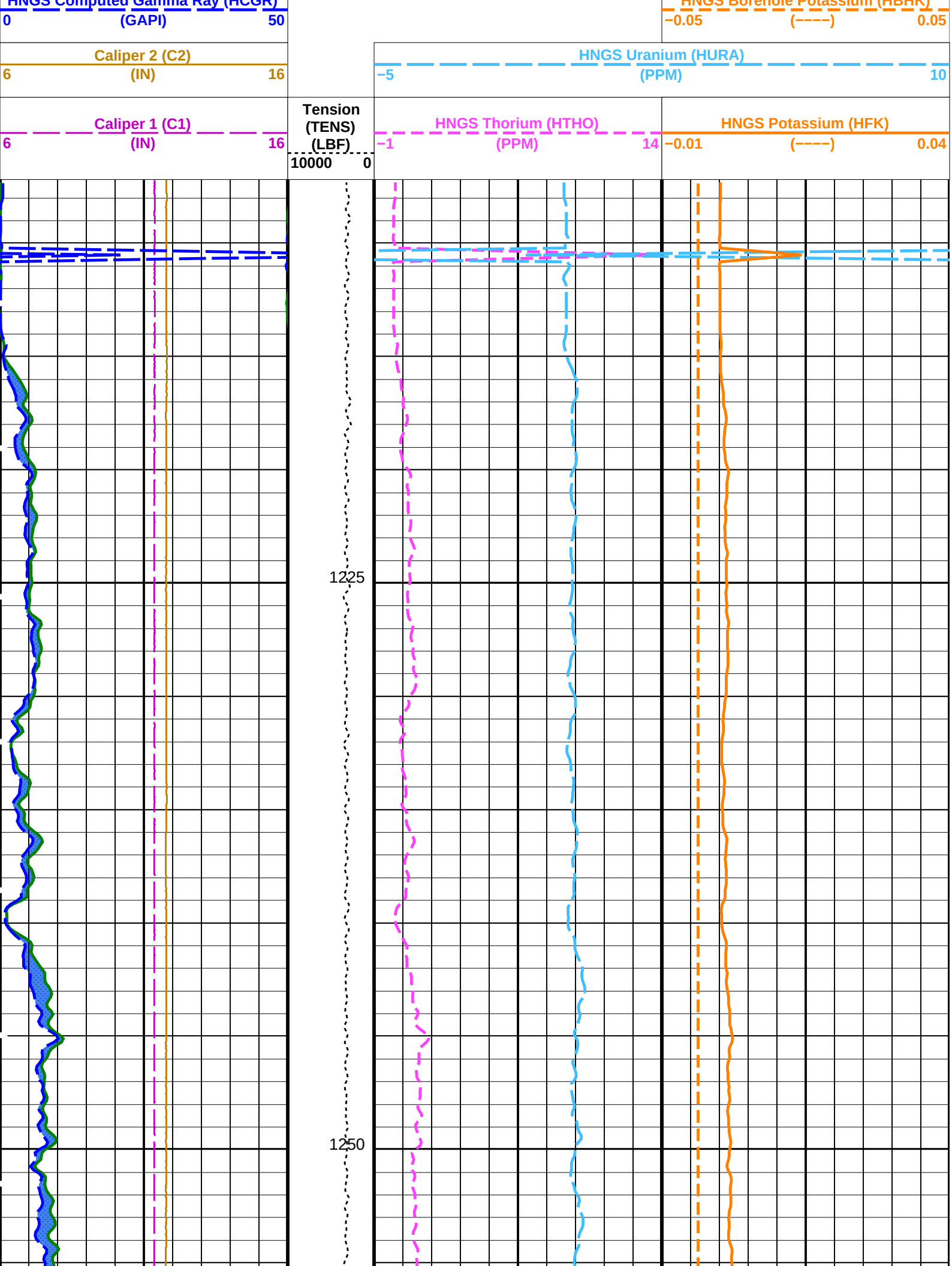
HNGS Spectroscopy Gamma Ray (HSGR)

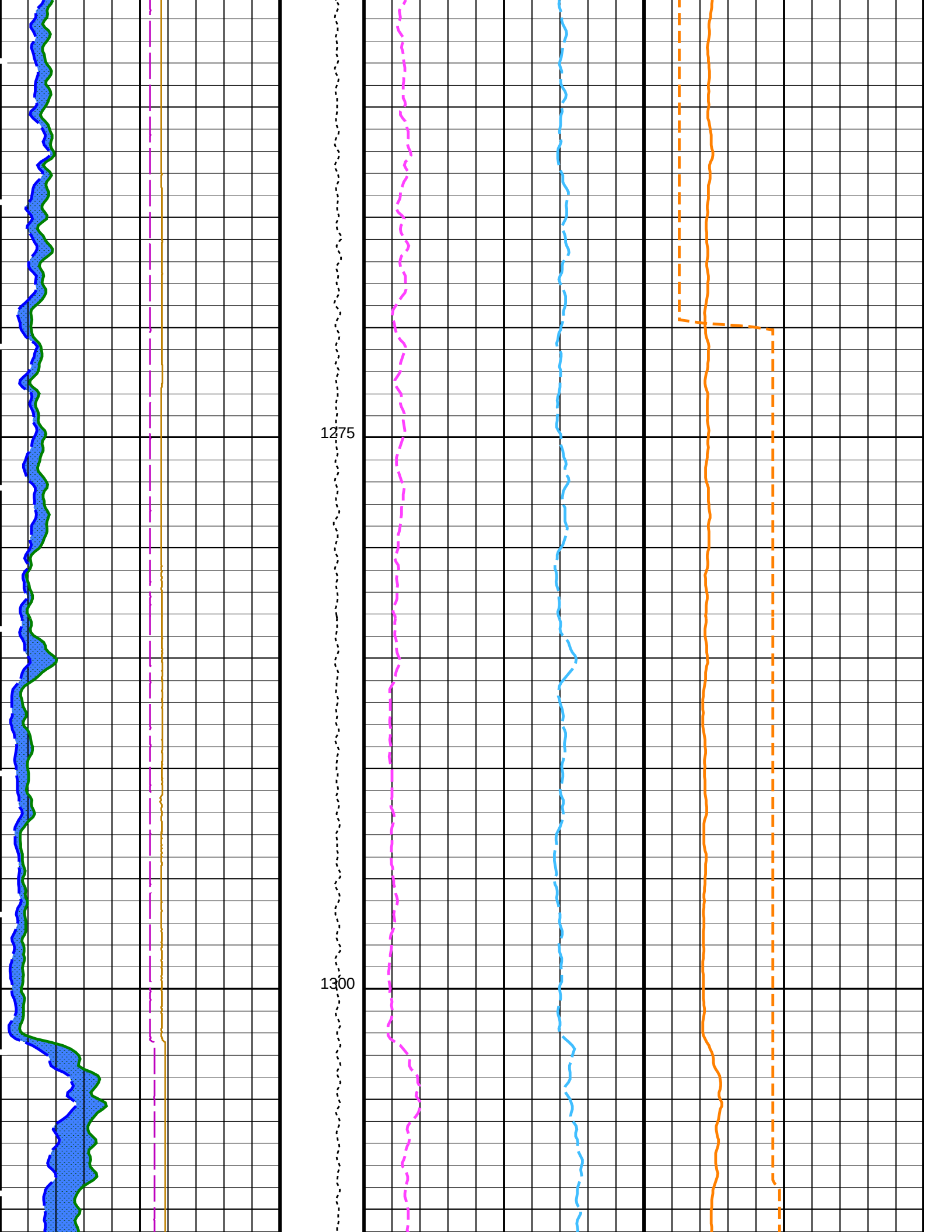
0 **(GAPI)** **50**

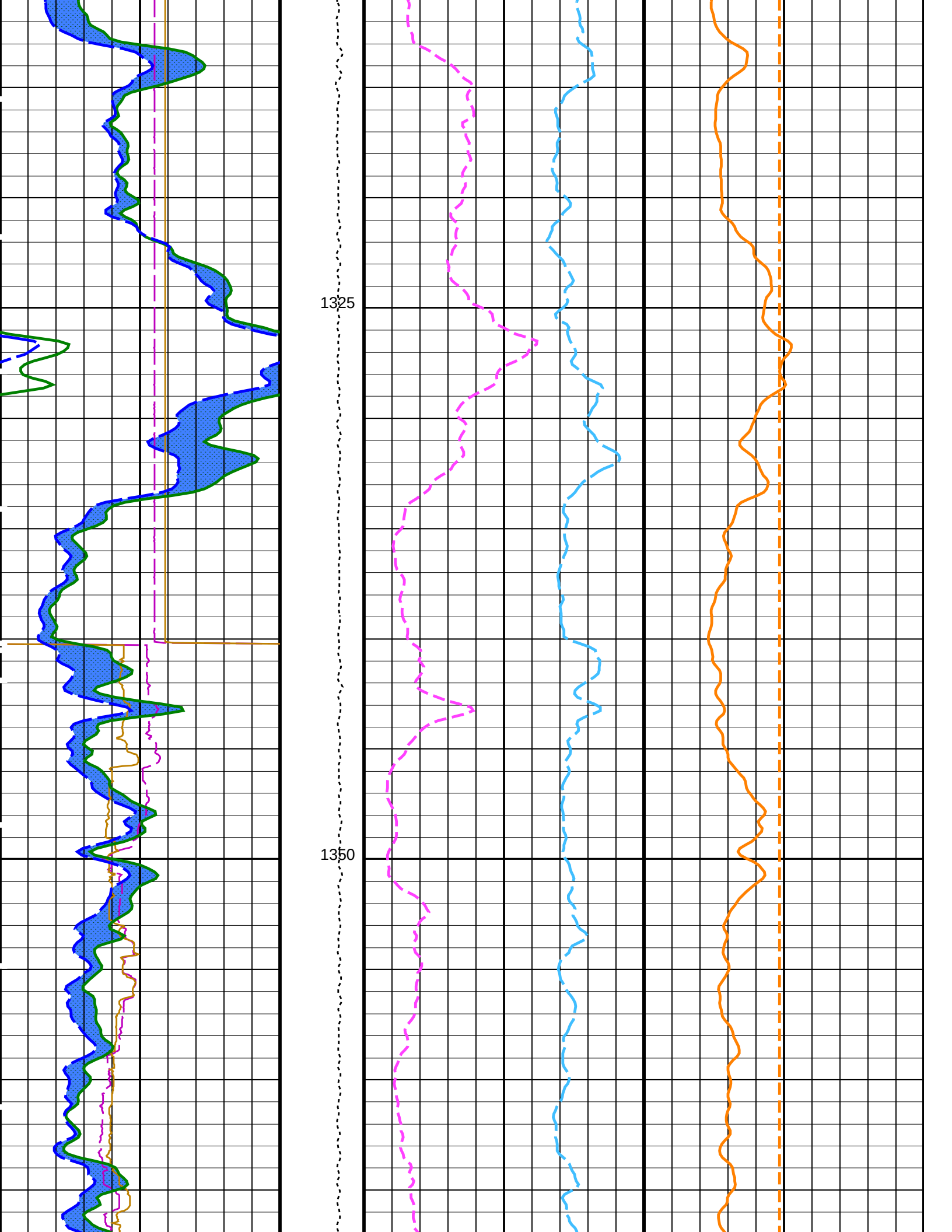
Area1
From HCGR to HSGR

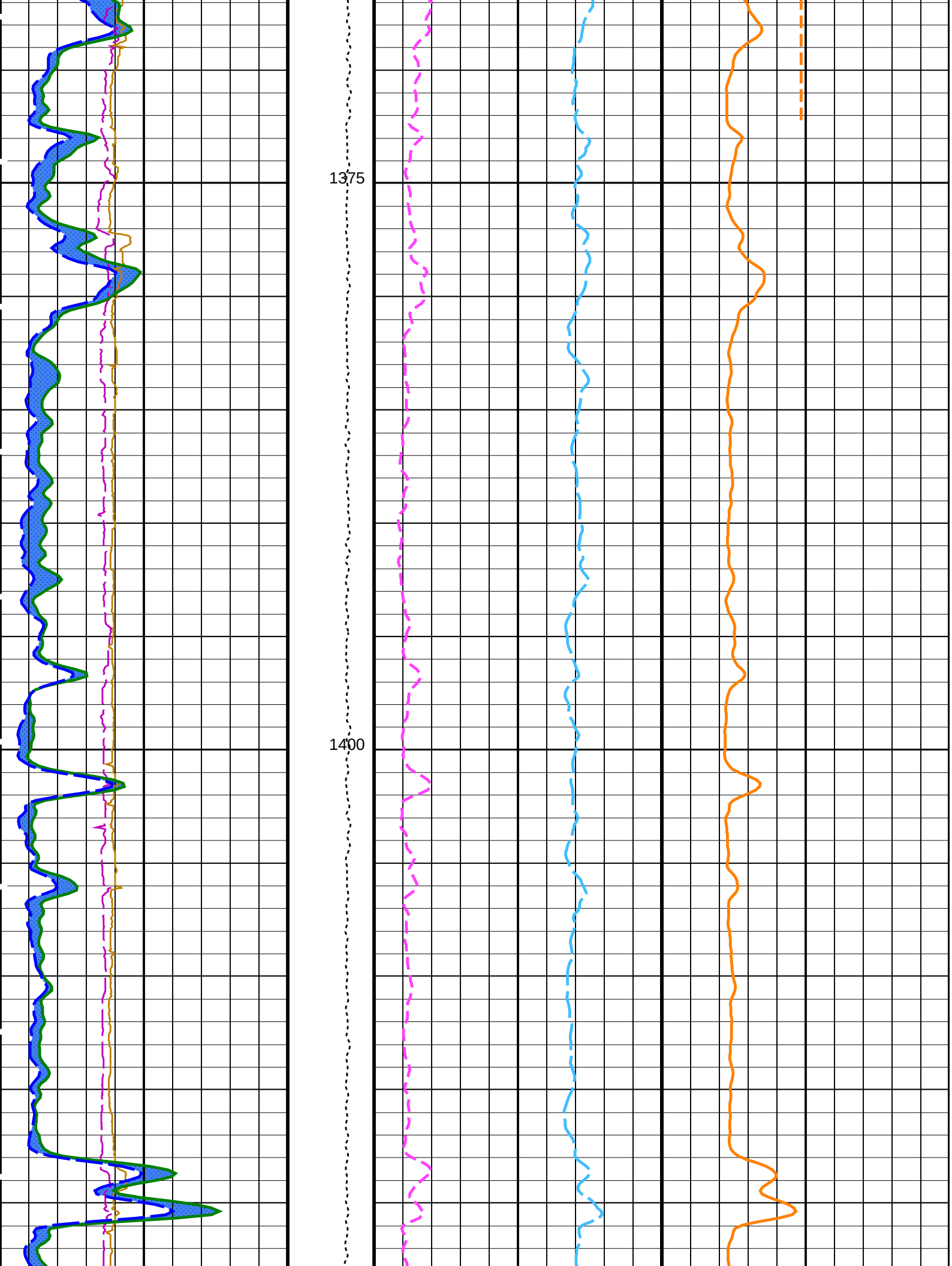
HNGS Computed Gamma Ray (HCGR)

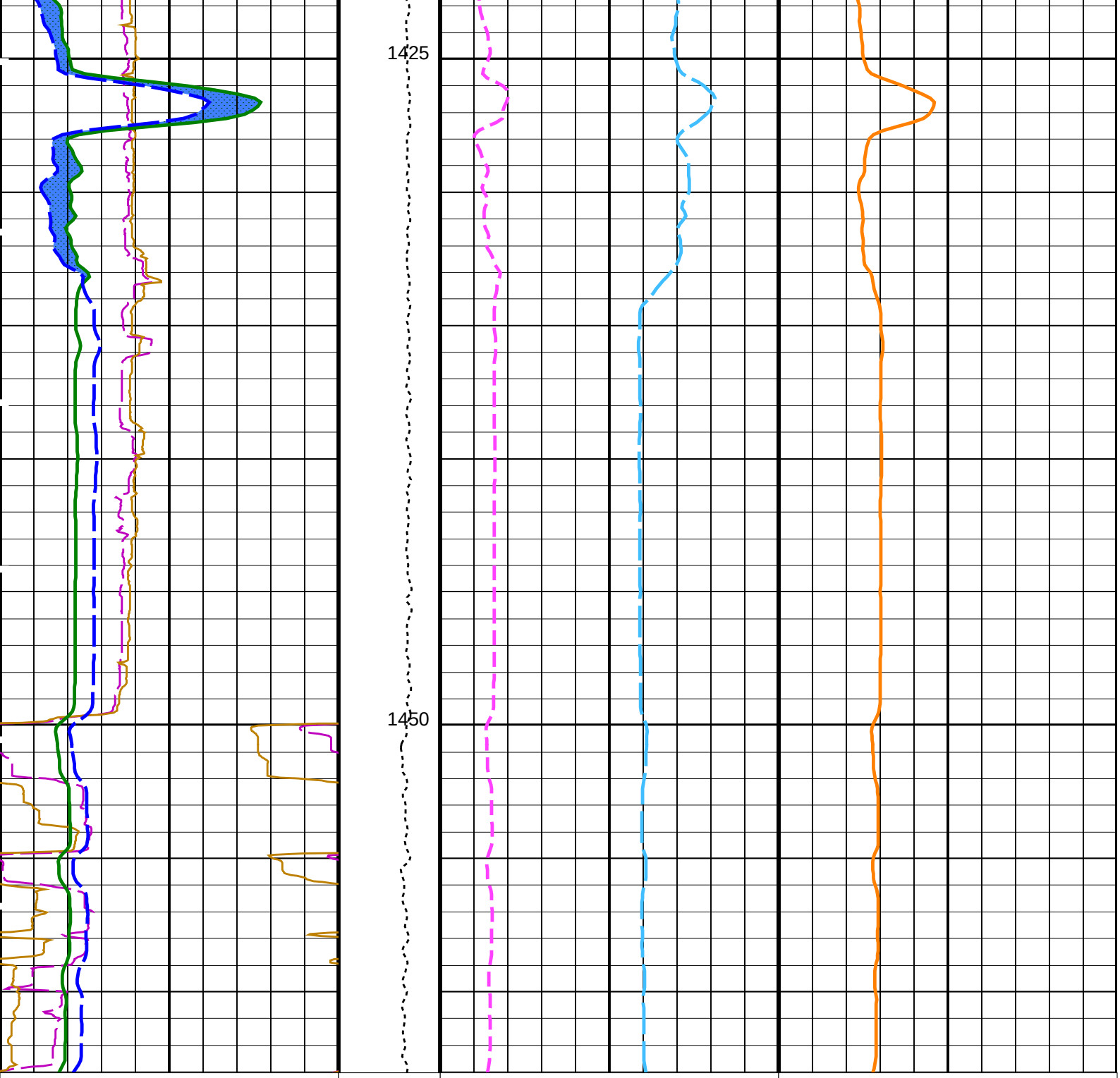
HNGS Borehole Potassium (HBHK)


HNGS Computed Gamma Ray (HCGR)
0
(GAPI)
50
HNGS Borehole Potassium (HBHK)
−0.05
(−−−−)
0.05
Caliper 2 (C2)
6
(IN)
16
HNGS Uranium (HURA)
−5
(PPM)
10
Caliper 1 (C1)
6
(IN)
16
Tension
(TENS)
(LBF)
10000
0
HNGS Thorium (HTHO)
−1
(PPM)
14
HNGS Potassium (HFK)
−0.01
(−−−−)
0.04
1225
1250


1275
1300


1325
1350


1375
1400



Caliper 1 (C1)
6 (IN) 16

Caliper 2 (C2)
6 (IN) 16

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 50

Area1
From HCGR to HSGR

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 50

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
−1 (PPM) 14

HNGS Uranium (HURA)
−5 (PPM) 10

HNGS Potassium (HFK)
−0.01 (----) 0.04

HNGS Borehole Potassium (HBHK)
−0.05 (----) 0.05

PIP SUMMARY

Time Mark Every: 60 S

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	C1	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00140505	
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	1.07718	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.15149	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17		

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M

OP System Version: 19C0−187

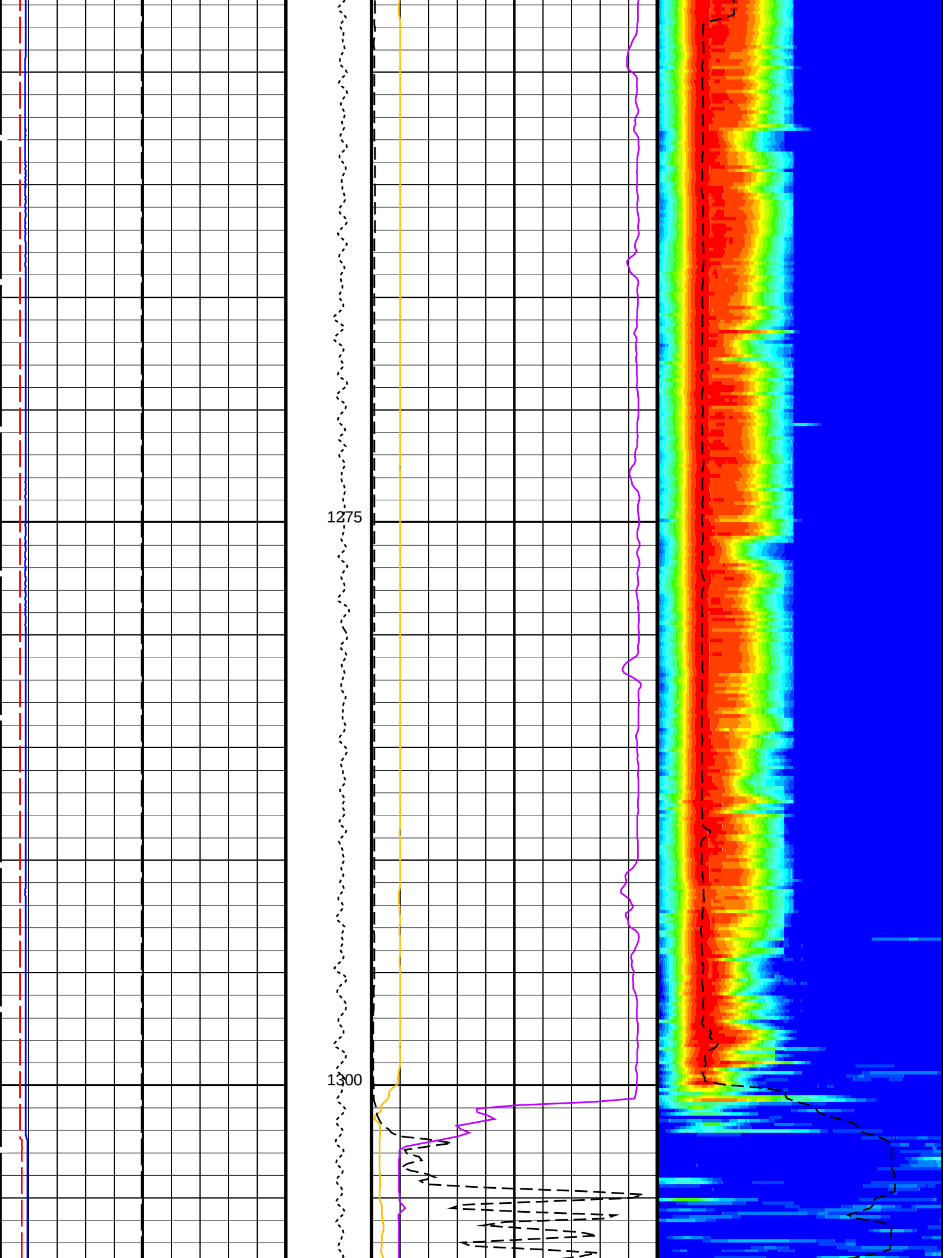
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

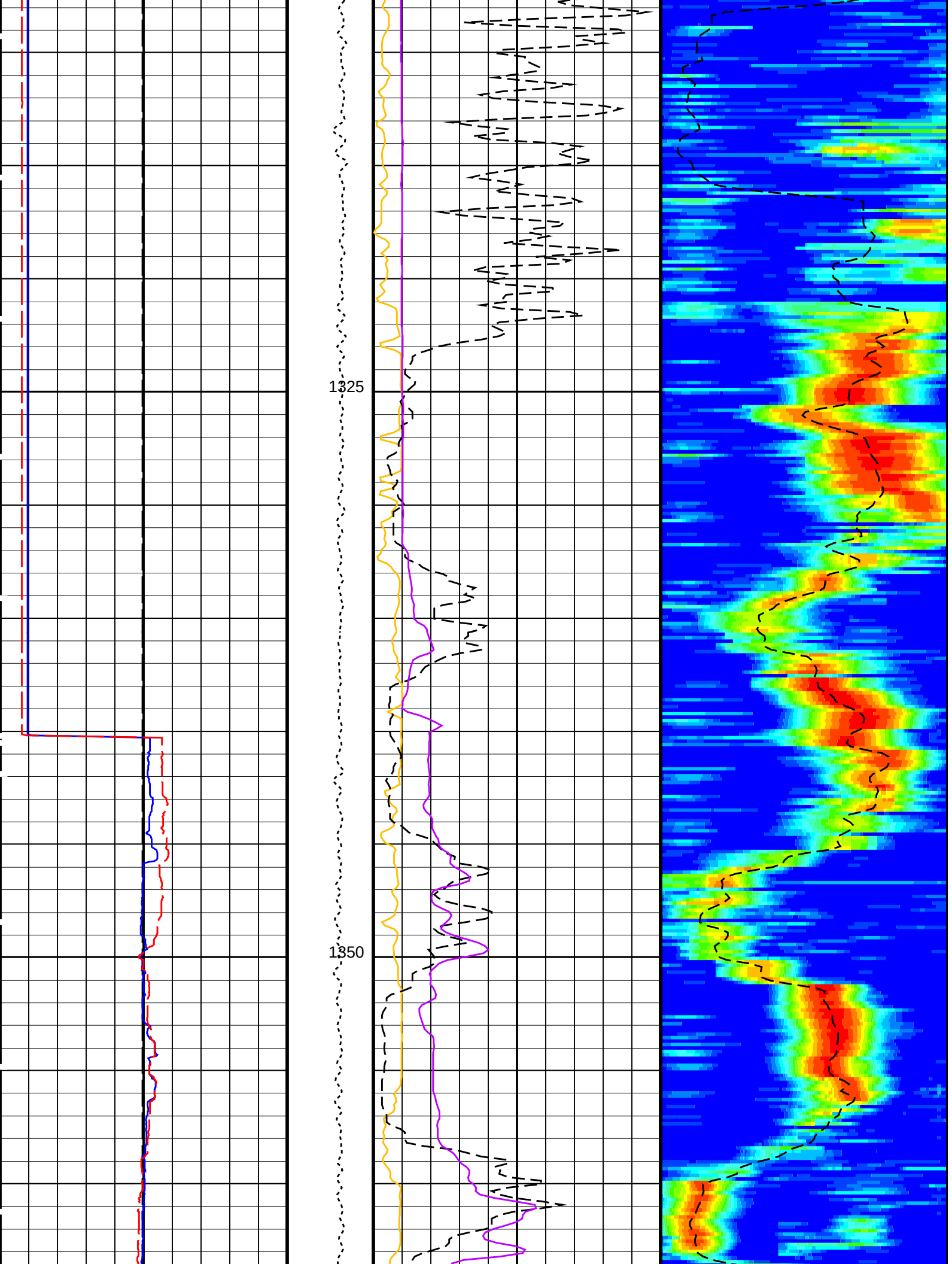
Time Mark Every 60 S

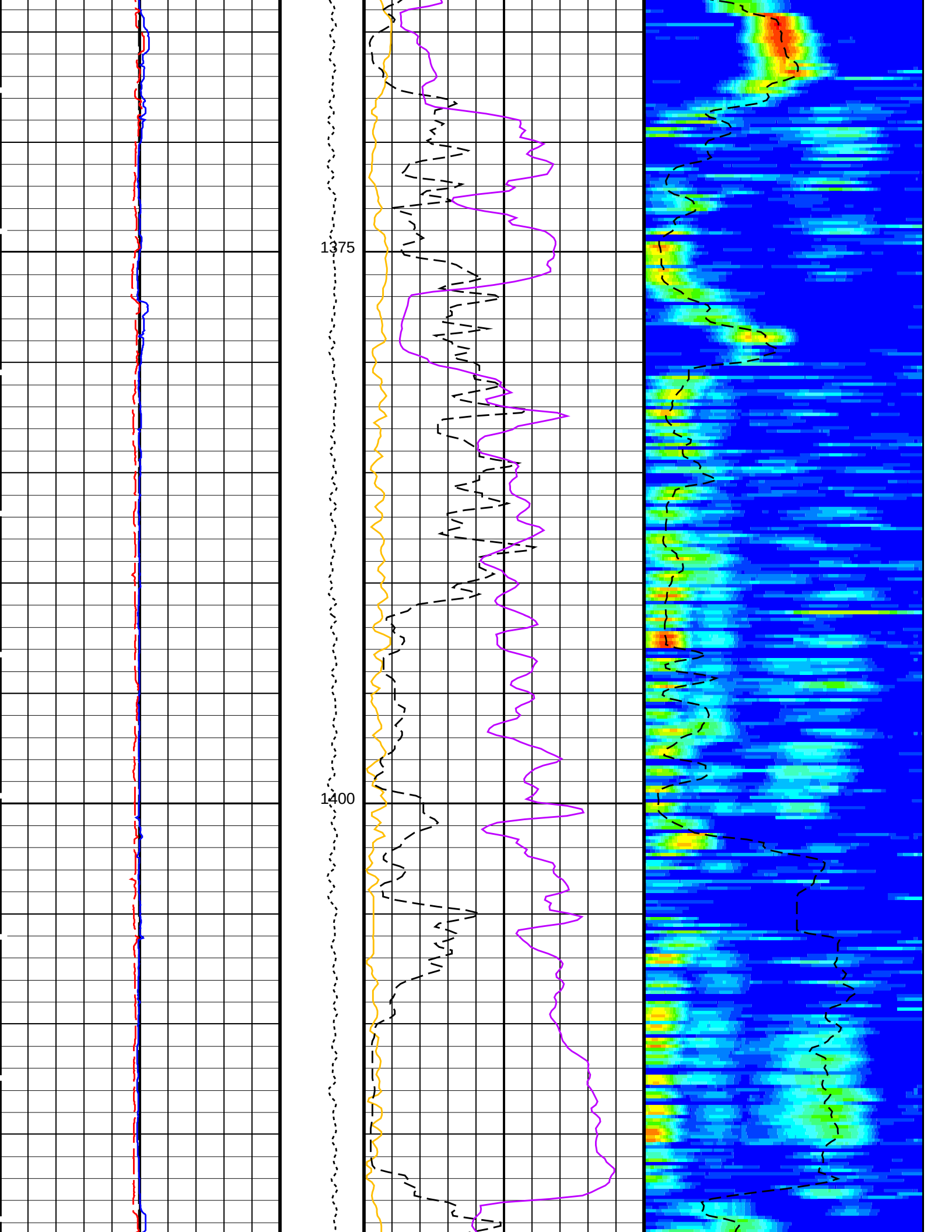
Caliper 1 (C1)		Sonic Velocity (SVEL)	
0 (IN) 20		1000 (M/S) 6000	
Caliper 2 (C2)		**SAM1 Waveform Gain (WFG1)**	Min Amplitude Max
0 (IN) 20		0 (−−−−) 1000	Rec.Array L.Dipole Slow Proj. CVDL (SPR1) 75 (US/F) 1200
Bit Size (BS)	Tension (TENS) (LBF)	Peak Coherence / RA − Lower Dipole (CHR1)	Delta−T Shear / RA − Lower Dipole (DT1R)
0 (IN) 20	0 5000	0 (−−−−) 10	75 (US/F) 1200

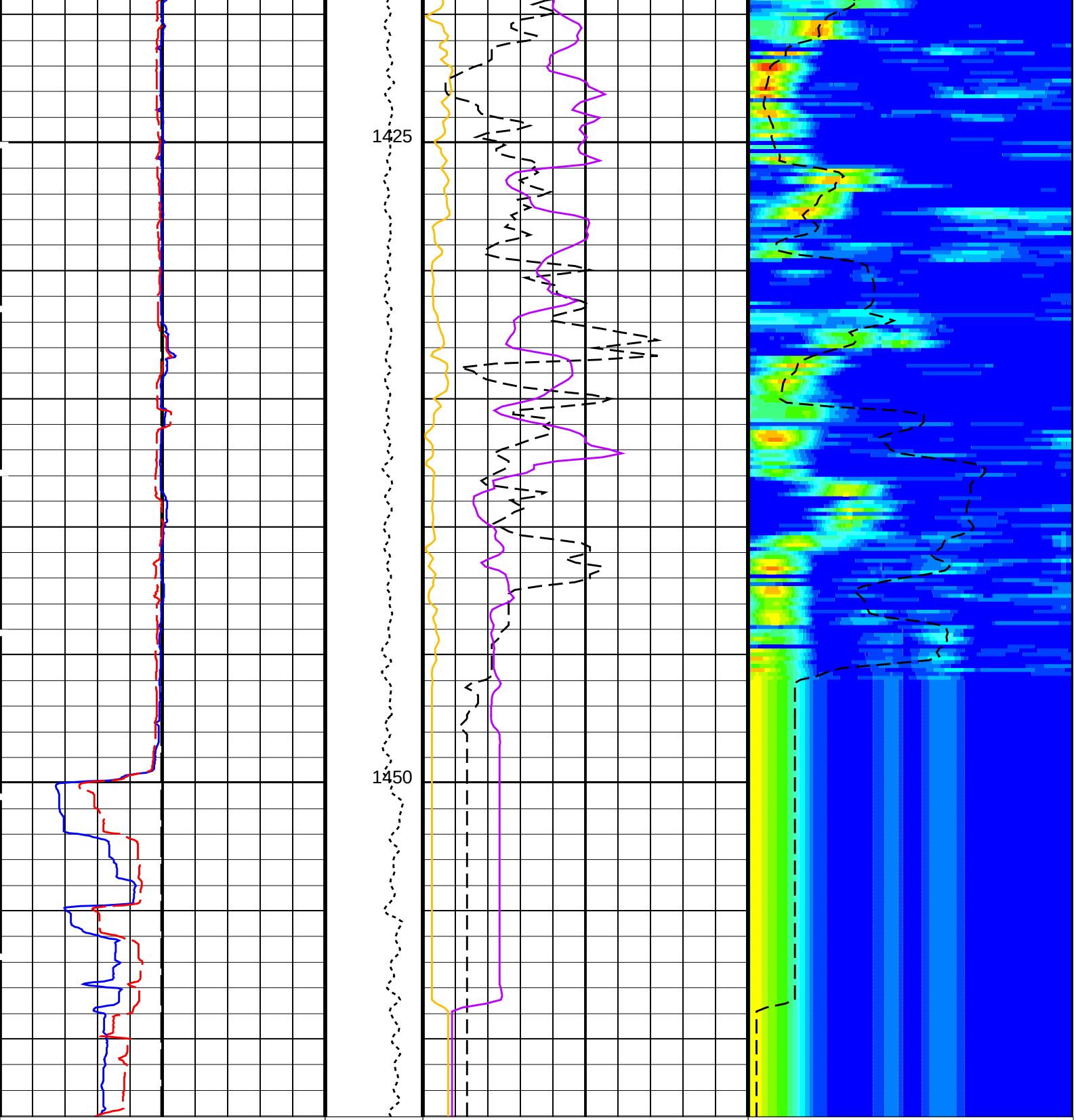
1225

1250


1275
1300


1325
1350


1375
1400



Bit Size (BS)	Tension (TENS)	Peak Coherence / RA − Lower Dipole (CHR1)	Delta−T Shear / RA − Lower Dipole (DT1R)
0 (IN) 20	(LBF) 0 5000	0 (−−−−) 10	75 (US/F) 1200
Caliper 2 (C2)		SAM1 Waveform Gain (WFG1)	Min Amplitude Max Rec.Array L.Dipole Slow Proj. CVDL (SPR1)
0 (IN) 20		0 (−−−−) 1000	75 (US/F) 1200
Caliper 1 (C1)		Sonic Velocity (SVEL)	
0 (IN) 20		1000 (M/S) 6000	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE1	Digitizing Delay 1	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1050	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC1	Digitizer Word Count 1	512	
DWCX	Digitizer Word Count X	512	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM1	DSST Sonic Acquisition Mode 1 − Lower Dipole Mode	LFD_EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status − Lower Dipole	255	
SBO1	STC Search Band Offset − Lower Dipole	3000	US
SBW1	STC Search Bandwidth − Lower Dipole	8000	US
SFC1	STC Formation Character − Lower Dipole	SELECTABLE	
SFM1	STC Filter − Lower Dipole	B.3−1.5K	
SLL1	STC Slowness Lower Limit − Lower Dipole	40	US/F
SST1	STC Slowness Step − Lower Dipole	4	US/F
SSW1	STC Source Waveform − Lower Dipole	WF_SAM1	
SUL1	STC Slowness Upper Limit − Lower Dipole	1400	US/F
SWD1	STC Slowness Width − Lower Dipole	40	US/F
TBF1	STC Time for Baseline Fill − Lower Dipole	0	US
TLL1	STC Time Lower Limit − Lower Dipole	600	US
TST1	STC Time Step − Lower Dipole	200	US
TUL1	STC Time Upper Limit − Lower Dipole	20440	US
TWD1	STC Time Width − Lower Dipole	2000	US
TWI1	STC Integration Time Window − Lower Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
WFM1	Waveform Mode 1	W1	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_LOWER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17		

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

Caliper 2 (C2)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Bit Size (BS)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

Sonic Velocity (SVEL)
1000 (M/S) 6000

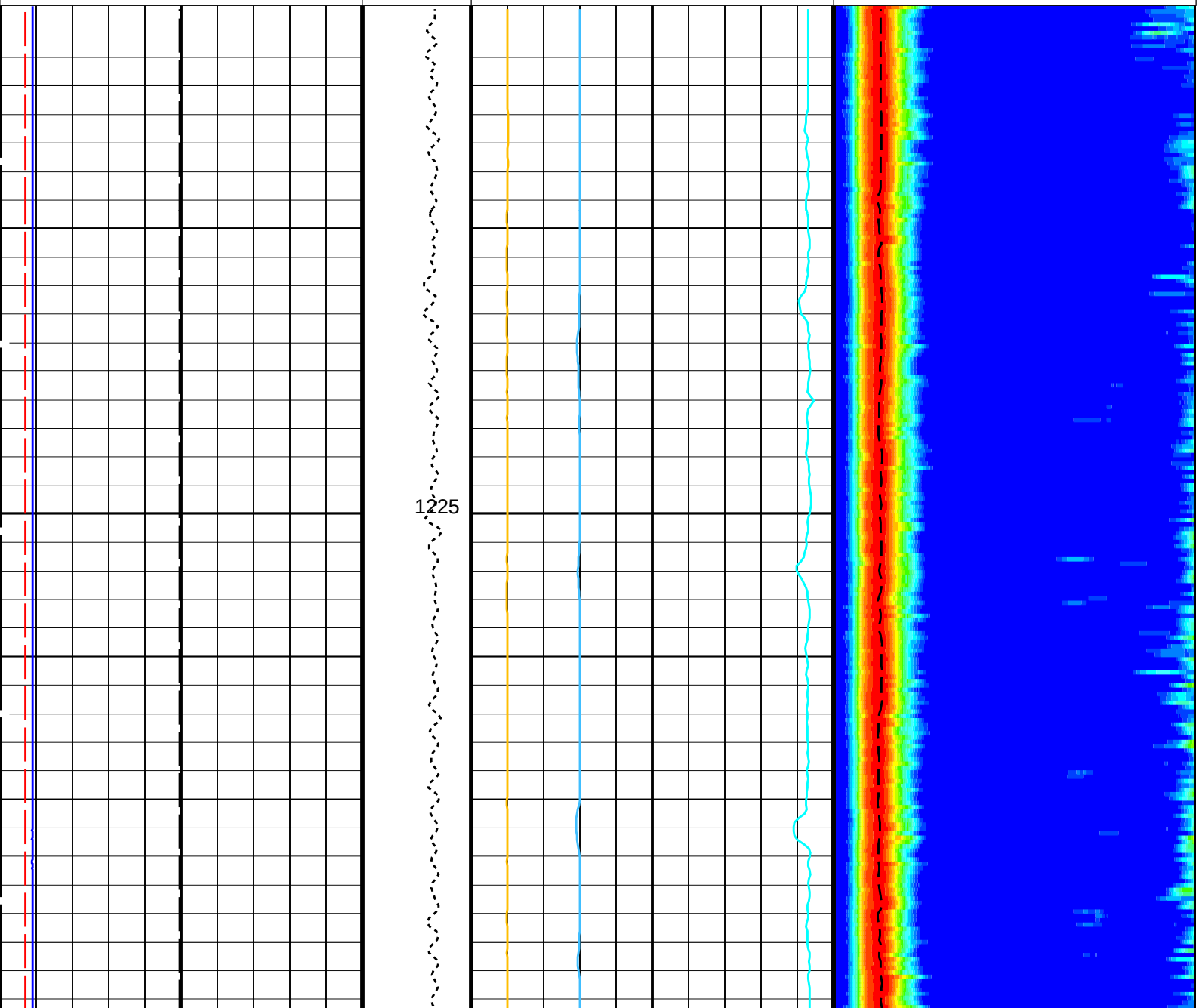
Peak Coherence / TA − Upper Dipole (CHT2)
−2 (−−−−) 8

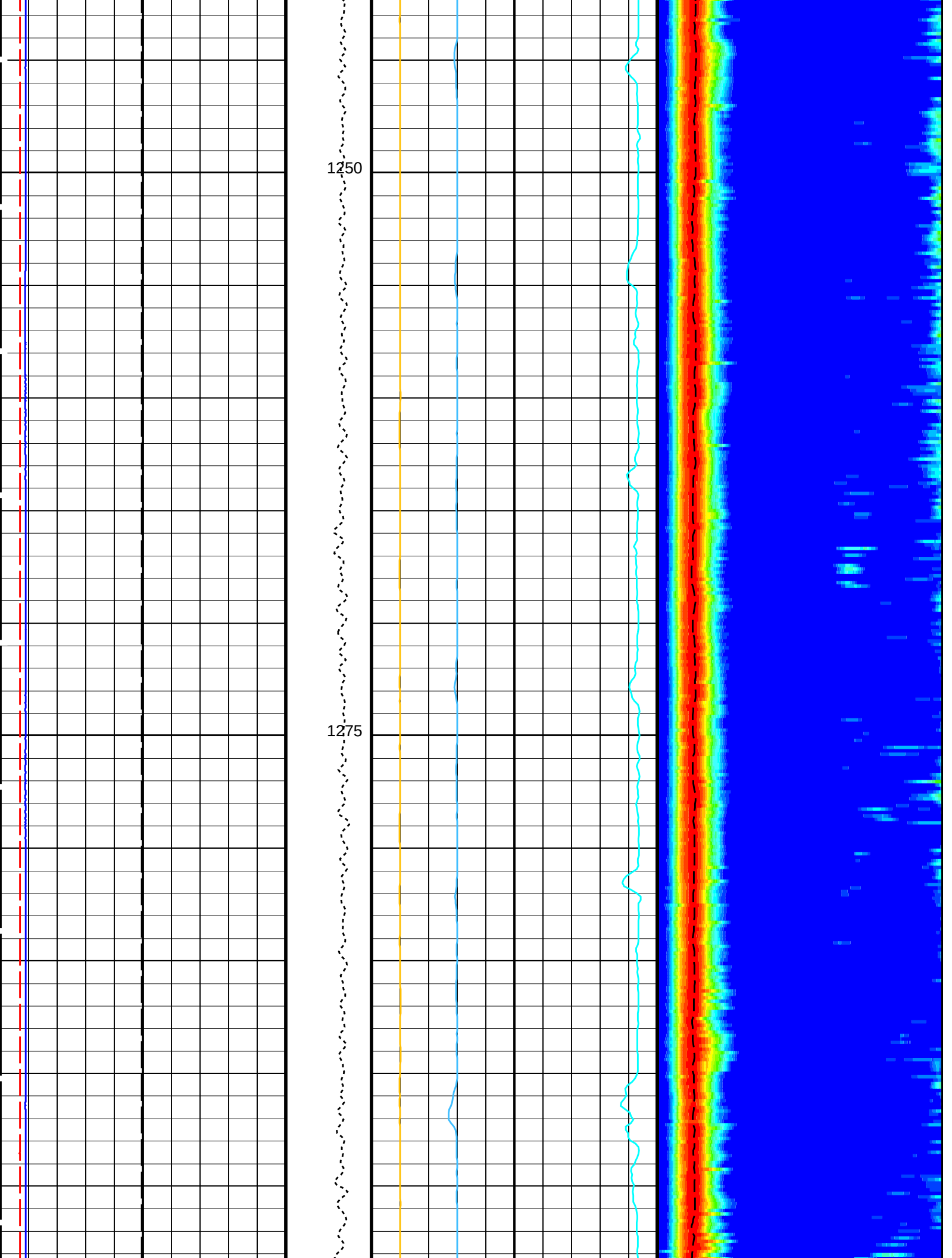
Peak Coherence / RA − Upper Dipole (CHR2)
0 (−−−−) 10

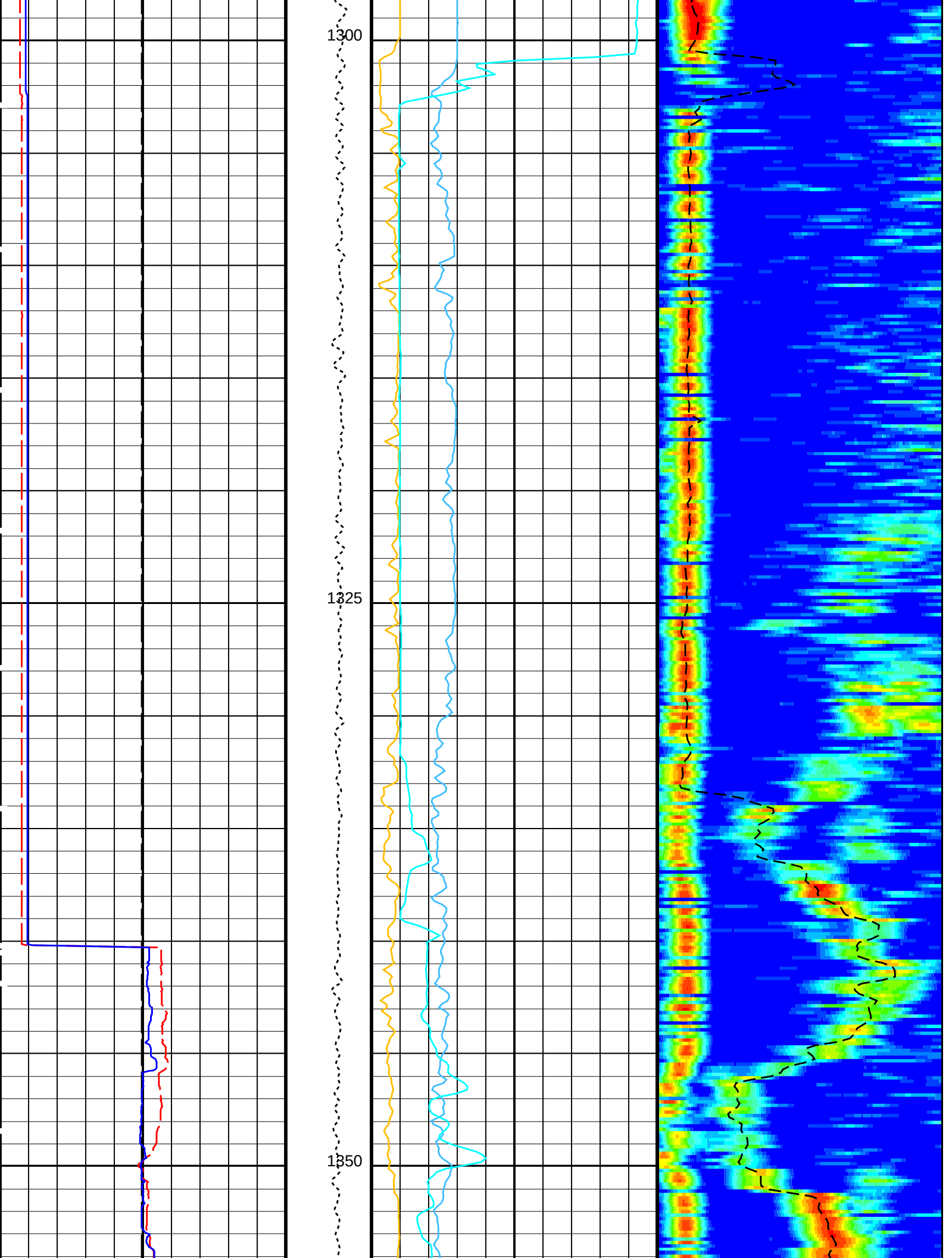
Min Amplitude Max

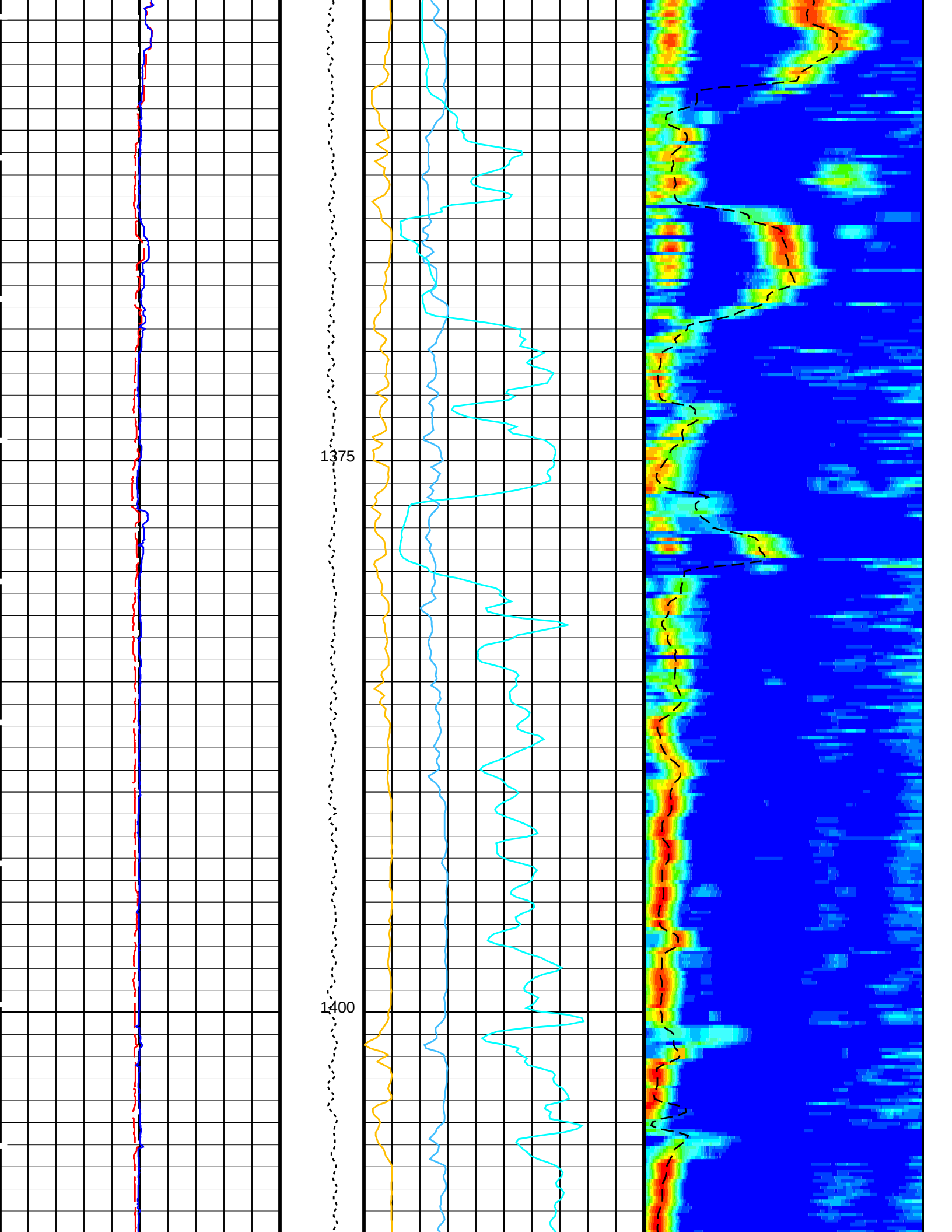
Rec.Array U.Dipole Slow Proj. CVDL (SPR2)
75 (US/F) 1200

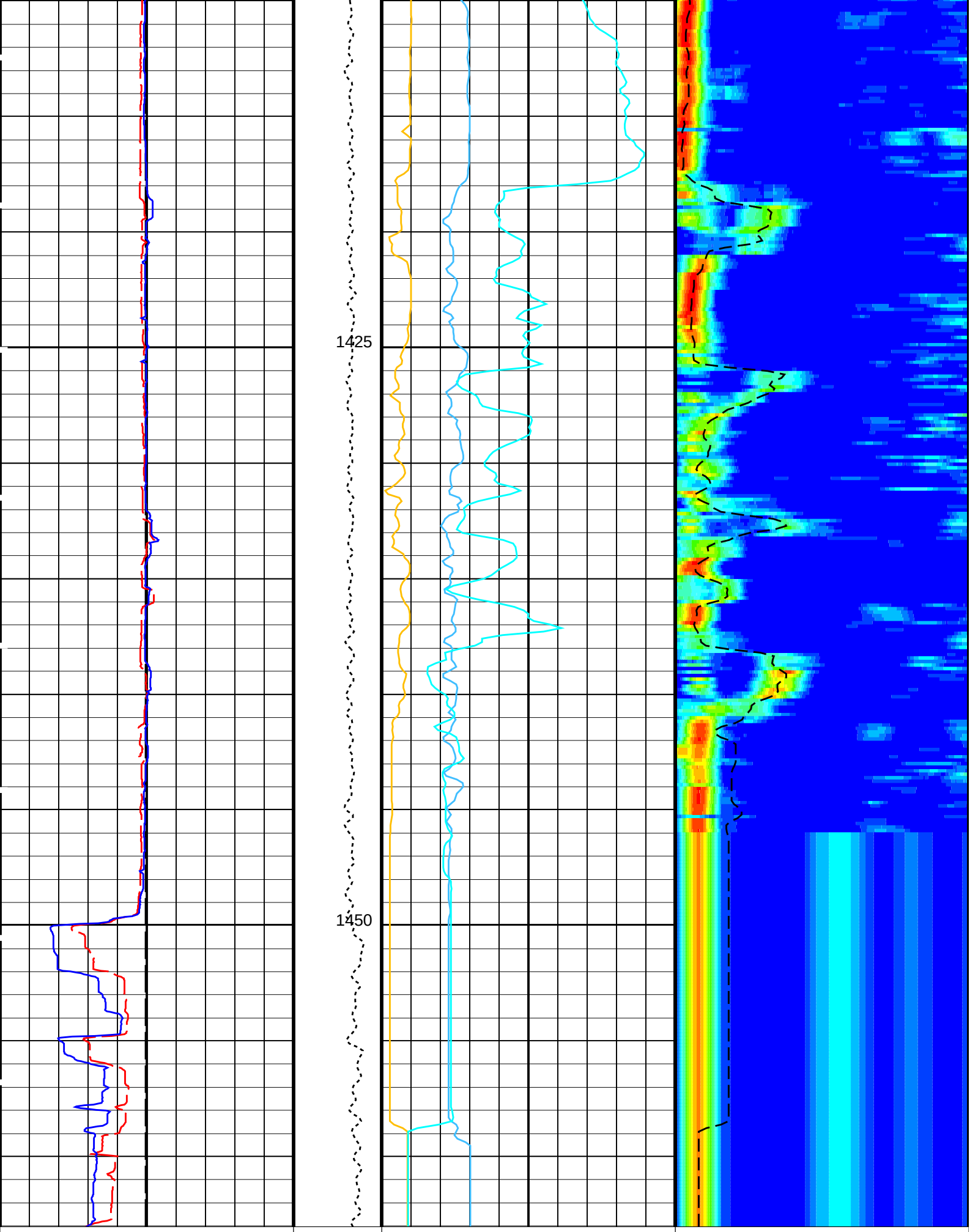
Delta−T Shear / RA − Upper Dipole (DT2R)
75 (US/F) 1200




1250
1275


1300
1325
1350


1375
1400


1425
1450
Bit Size (BS)
0
(IN)
20
Tension
(TENS)
(LBF)
Peak Coherence / RA − Upper Dipole
(CHR2)
0
(----)
10
Delta−T Shear / RA − Upper Dipole
(DT2R)
75
(US/F)
1200

0 5000		
Caliper 1 (C1) 0 (IN) 20		Peak Coherence / TA − Upper Dipole (CHT2) −2 (−−−−) 8
Caliper 2 (C2) 0 (IN) 20		Sonic Velocity (SVEL) 1000 (M/S) 6000

Min Amplitude Max

Rec.Array U.Dipole Slow Proj. CVDL (SPR2)

75 (US/F) 1200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE2	Digitizing Delay 2	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source − Dipole Shear	USE	
DSHL	Label Slowness Lower Limit − Dipole Shear	75	US/F
DSHU	Label Slowness Upper Limit − Dipole Shear	1050	US/F
DSI2	Digitizer Sample Interval 2	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
NWI2	Number Waveform Items 2	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM2	DSST Sonic Acquisition Mode 2 − Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status − Upper Dipole	255	
SBO2	STC Search Band Offset − Upper Dipole	3000	US
SBW2	STC Search Bandwidth − Upper Dipole	8000	US
SFC2	STC Formation Character − Upper Dipole	SELECTABLE	
SFM2	STC Filter − Upper Dipole	B1−2K	
SLL2	STC Slowness Lower Limit − Upper Dipole	40	US/F
SST2	STC Slowness Step − Upper Dipole	4	US/F
SSW2	STC Source Waveform − Upper Dipole	WF_SAM2	
SUL2	STC Slowness Upper Limit − Upper Dipole	1400	US/F
SWD2	STC Slowness Width − Upper Dipole	40	US/F
TBF2	STC Time for Baseline Fill − Upper Dipole	0	US
TLL2	STC Time Lower Limit − Upper Dipole	600	US
TST2	STC Time Step − Upper Dipole	200	US
TUL2	STC Time Upper Limit − Upper Dipole	20440	US
TWD2	STC Time Width − Upper Dipole	2000	US
TWI2	STC Integration Time Window − Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_UPPER_DIPOLE_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17		

Company: International Ocean Discovery Program | Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

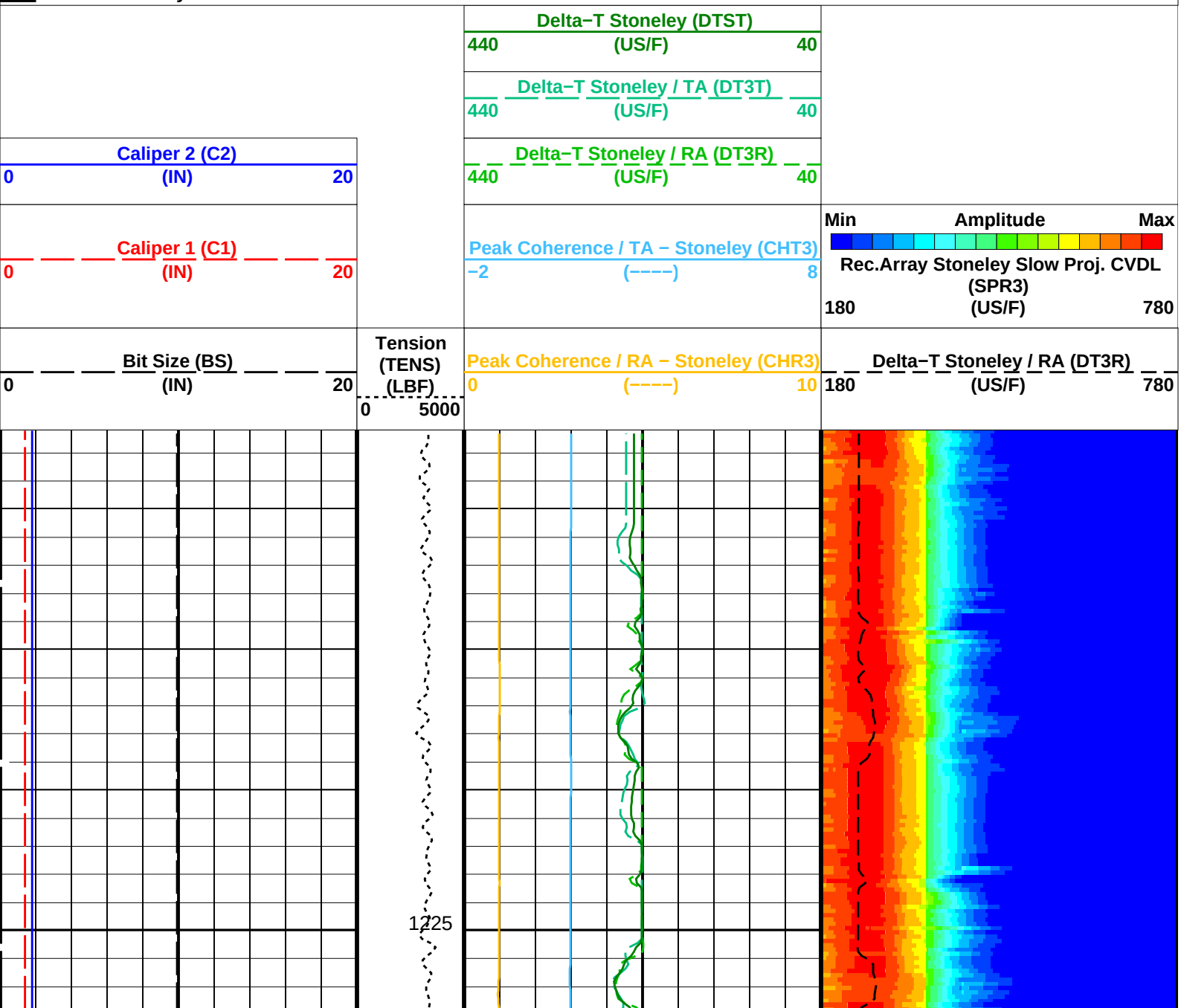
DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M

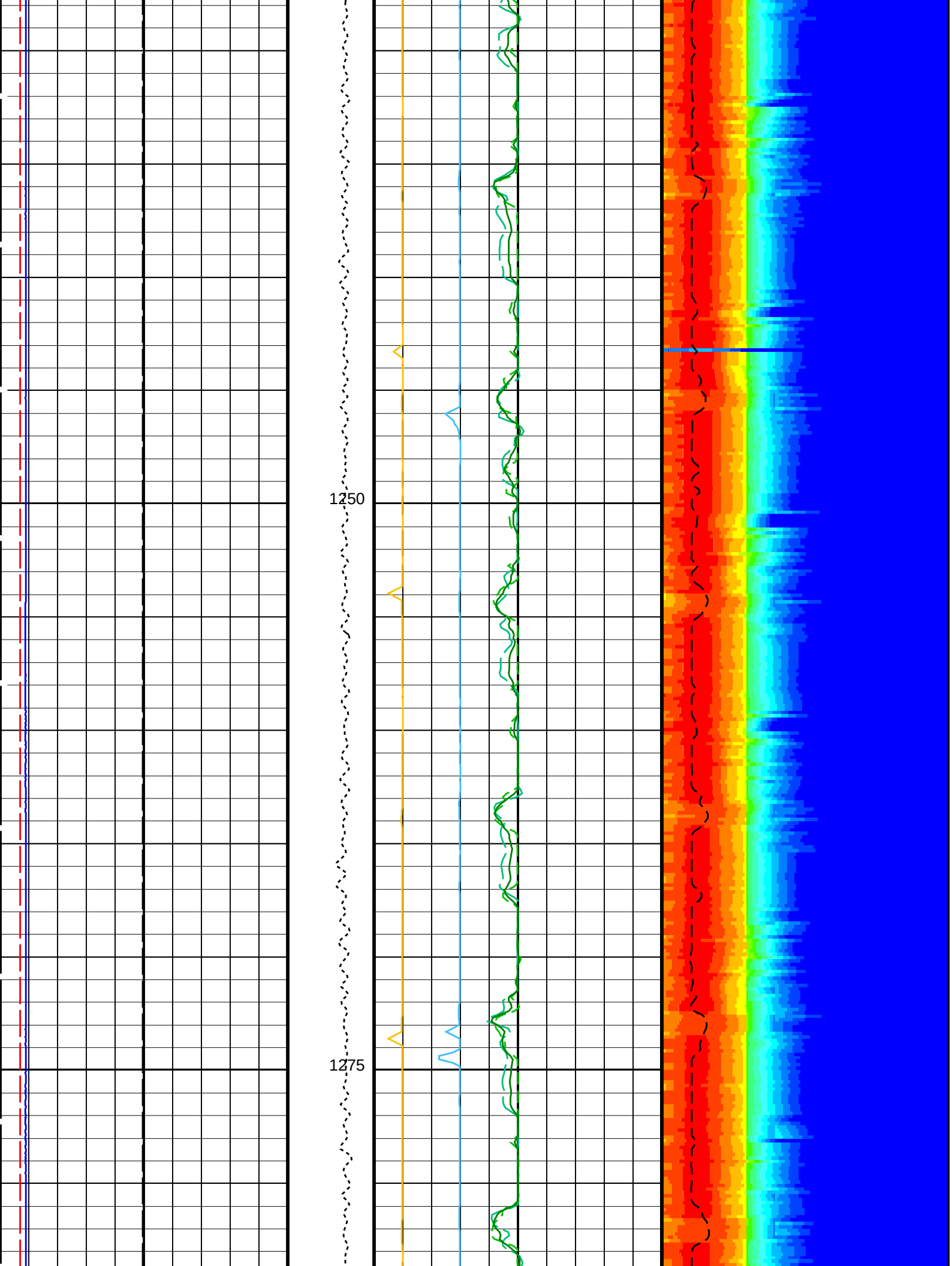
OP System Version: 19C0−187

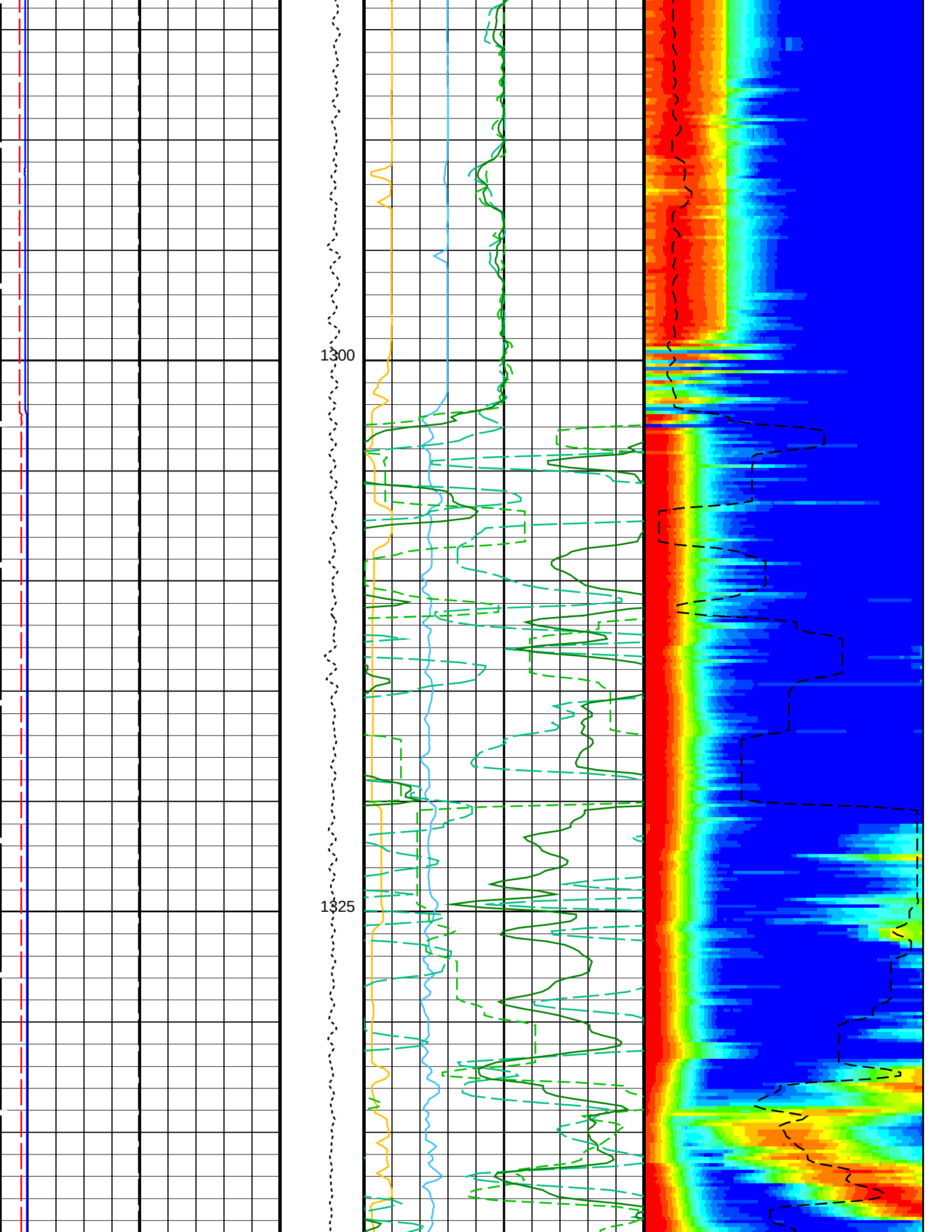
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

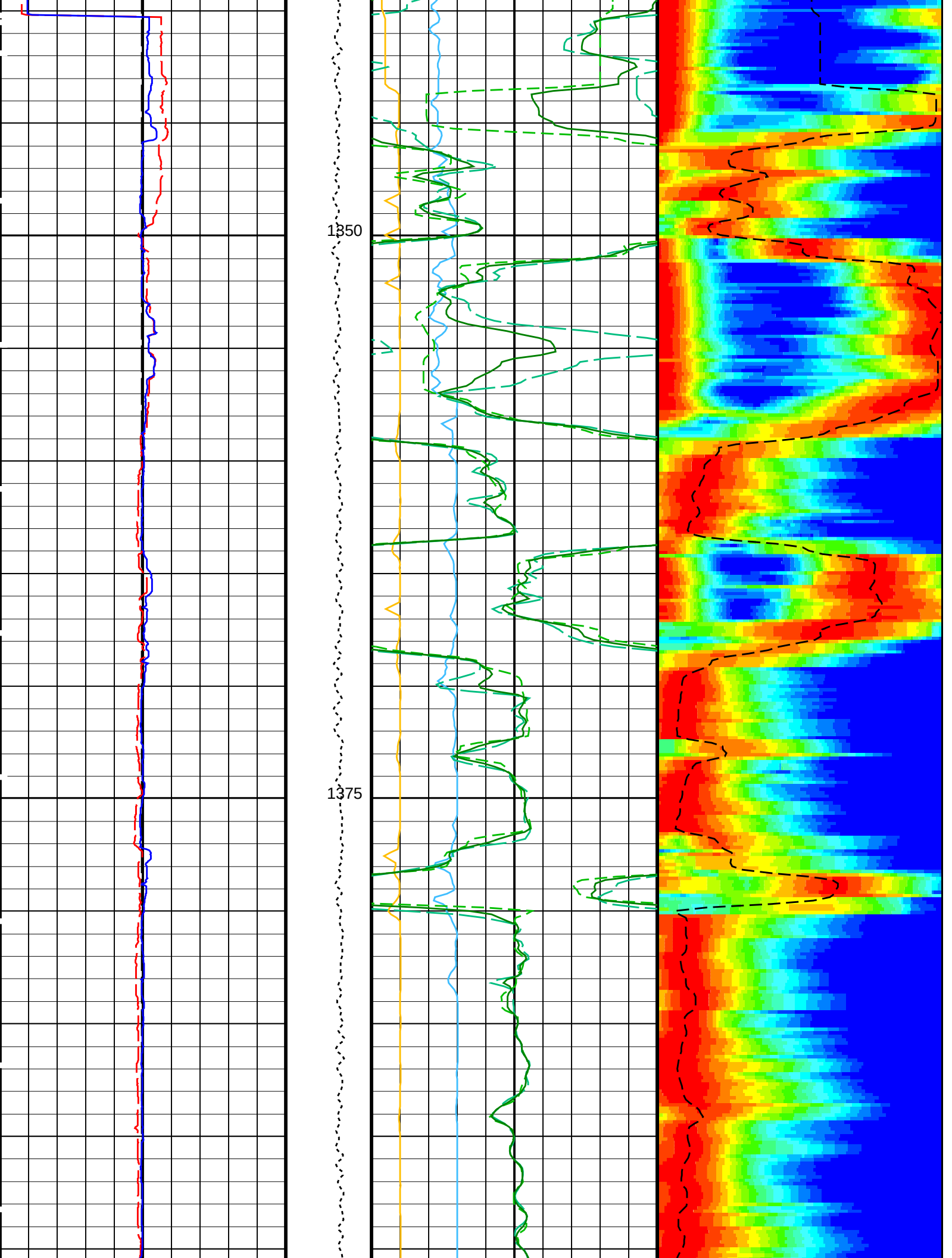
PIP SUMMARY

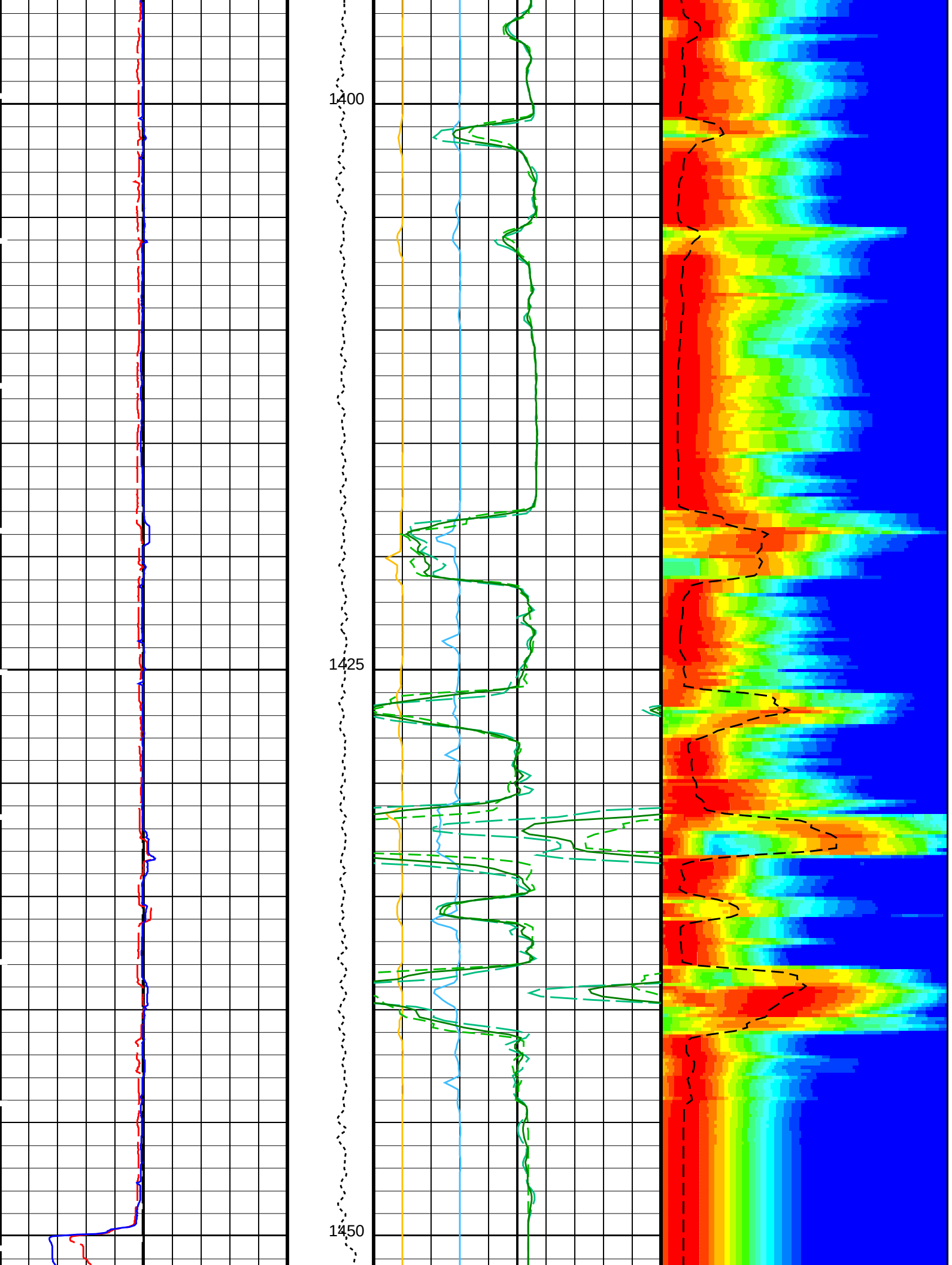
Time Mark Every 60 S

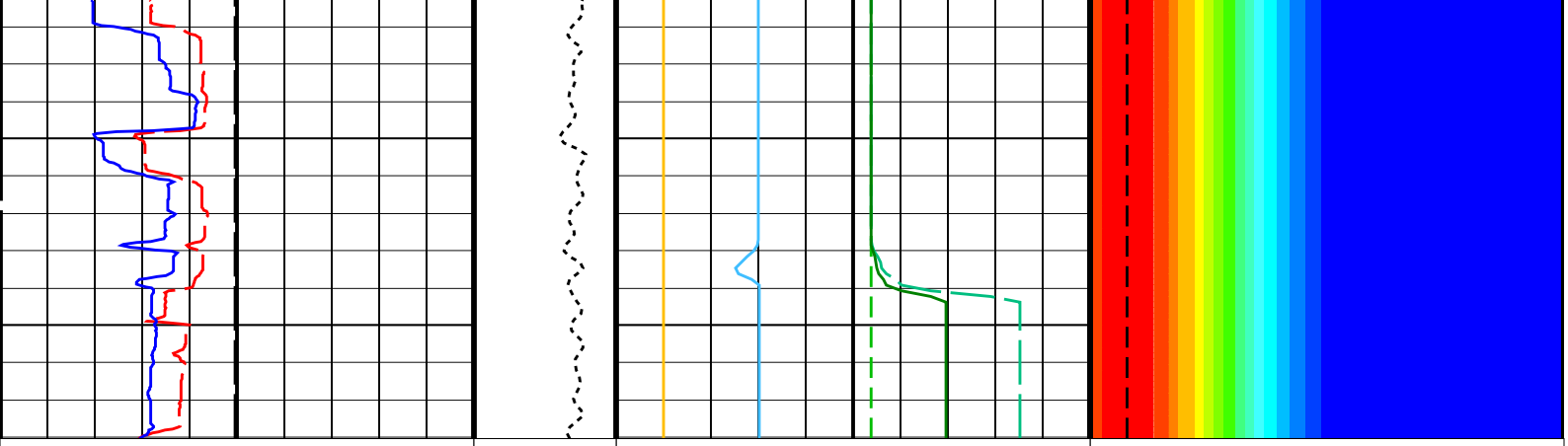



1250
1275


1300
1325


1350
1375


1400
1425
1450



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
DDE3	Digitizing Delay 3	0	US
DDEX	Digitizing Delay X	0	US
DSI3	Digitizer Sample Interval 3	40	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta−T Source for DTCO Channel	PS_COMP	
DWC3	Digitizer Word Count 3	512	
DWCX	Digitizer Word Count X	512	
MTXG	Monopole Transmitter Geometry	186	IN
NWI3	Number Waveform Items 3	8	
NWIX	Number Waveform Items X	0	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM3	DSST Sonic Acquisition Mode 3 − Monopole Mode for Stoneley	ODD	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS3	STC Sonic Array Status − Monopole Stoneley	255	
SBO3	STC Search Band Offset − Monopole Stoneley	2000	US
SBW3	STC Search Bandwidth − Monopole Stoneley	6000	US
SFC3	STC Formation Character − Monopole Stoneley	SELECTABLE	
SFM3	STC Filter − Monopole Stoneley	B.5−1.5K	
SLL3	STC Slowness Lower Limit − Monopole Stoneley	180	US/F
SST3	STC Slowness Step − Monopole Stoneley	4	US/F
SSW3	STC Source Waveform − Monopole Stoneley	WF_SAM3	
STLL	Label Slowness Lower Limit − Monopole Stoneley	210	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F
SUL3	STC Slowness Upper Limit − Monopole Stoneley	780	US/F
SWD3	STC Slowness Width − Monopole Stoneley	40	US/F
TBF3	STC Time for Baseline Fill − Monopole Stoneley	0	US

TLL3	STC Time Lower Limit − Monopole Stoneley	620	US
TST3	STC Time Step − Monopole Stoneley	200	US
TUL3	STC Time Upper Limit − Monopole Stoneley	12020	US
TWD3	STC Time Width − Monopole Stoneley	2000	US
TWI3	STC Integration Time Window − Monopole Stoneley	1600	US
TWSX	Transmitter Waveform Select X	0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_STONELEY_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17		

Company: International Ocean Discovery Program Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M

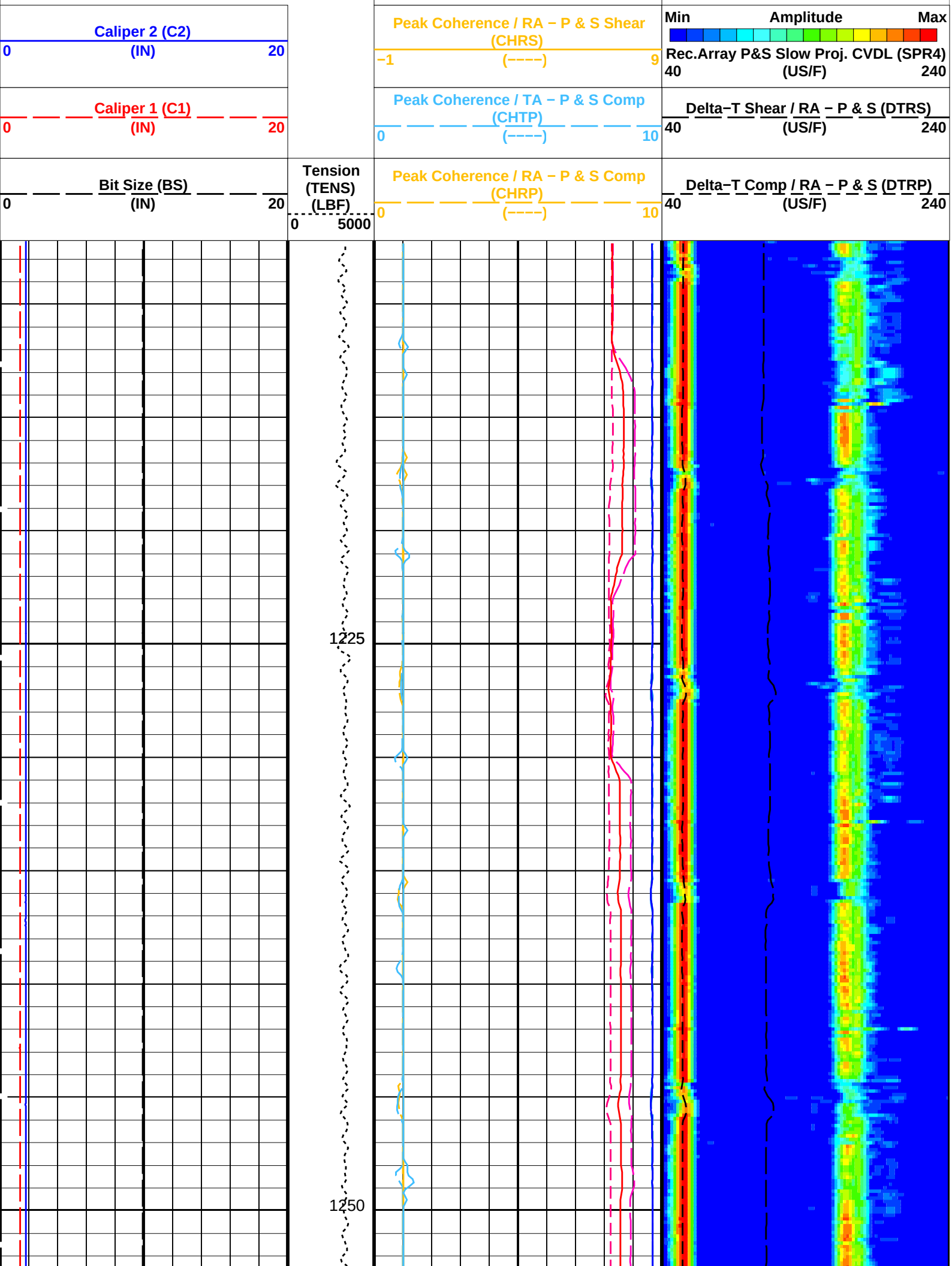
OP System Version: 19C0−187

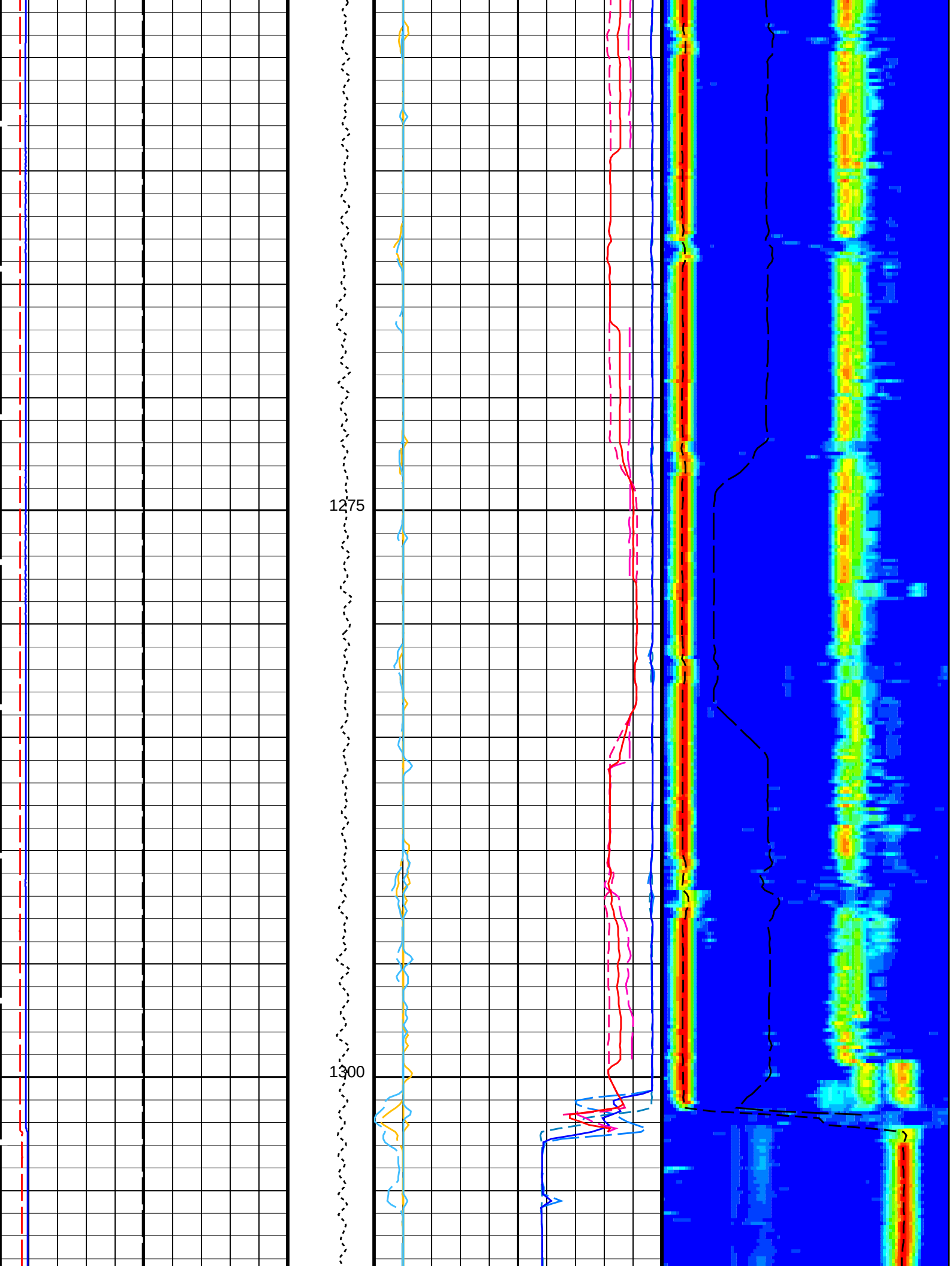
MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

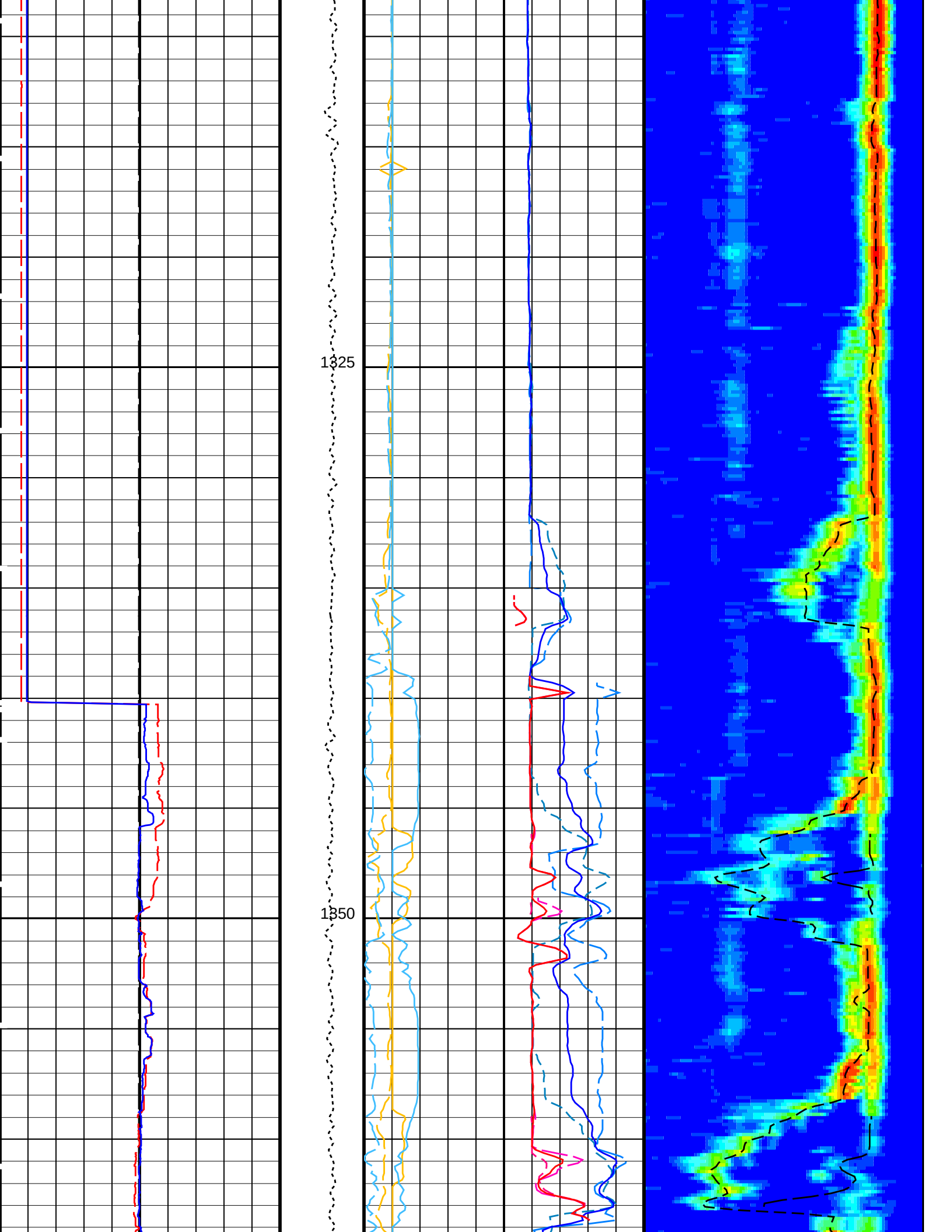
PIP SUMMARY

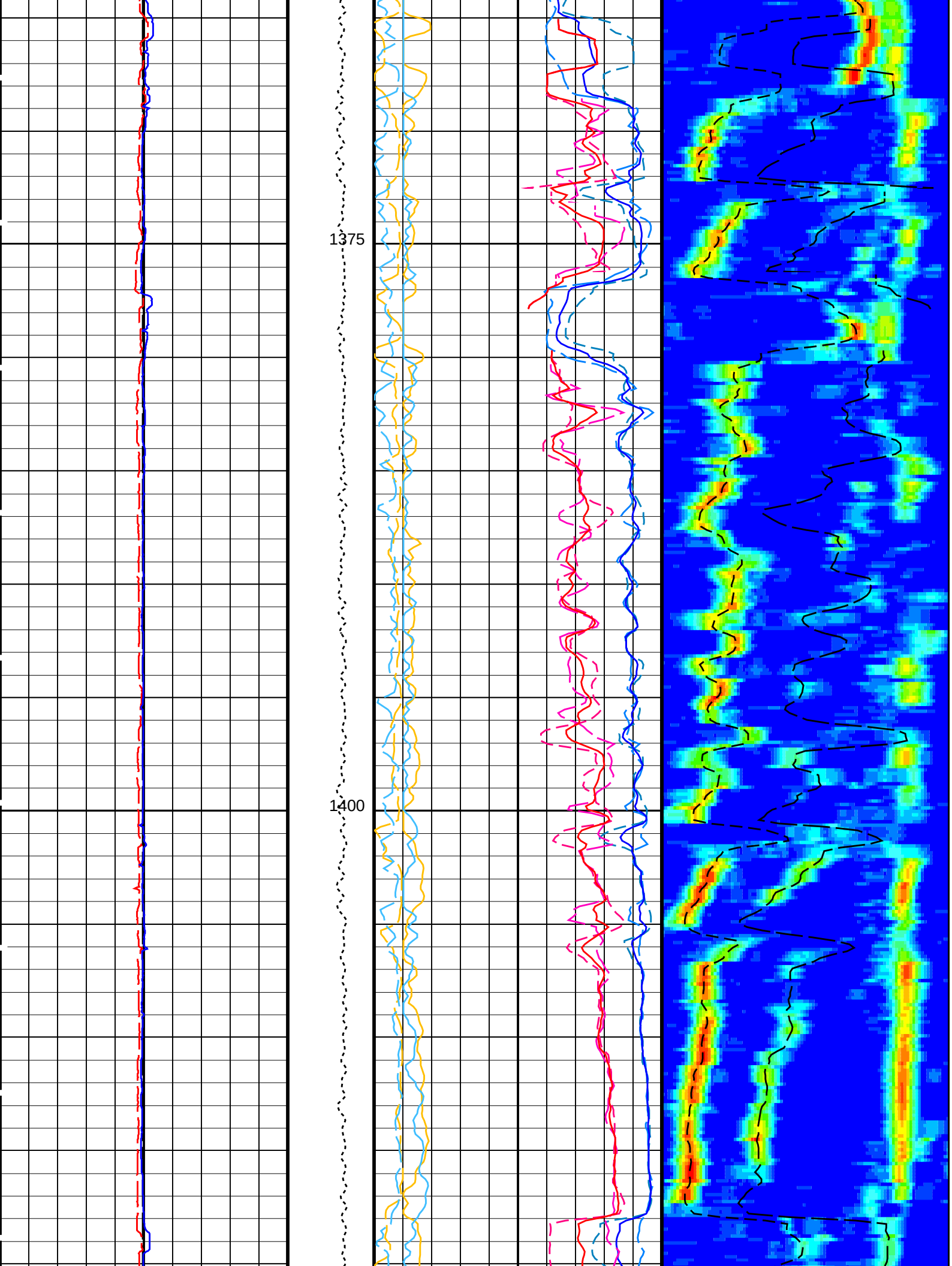
Time Mark Every 60 S

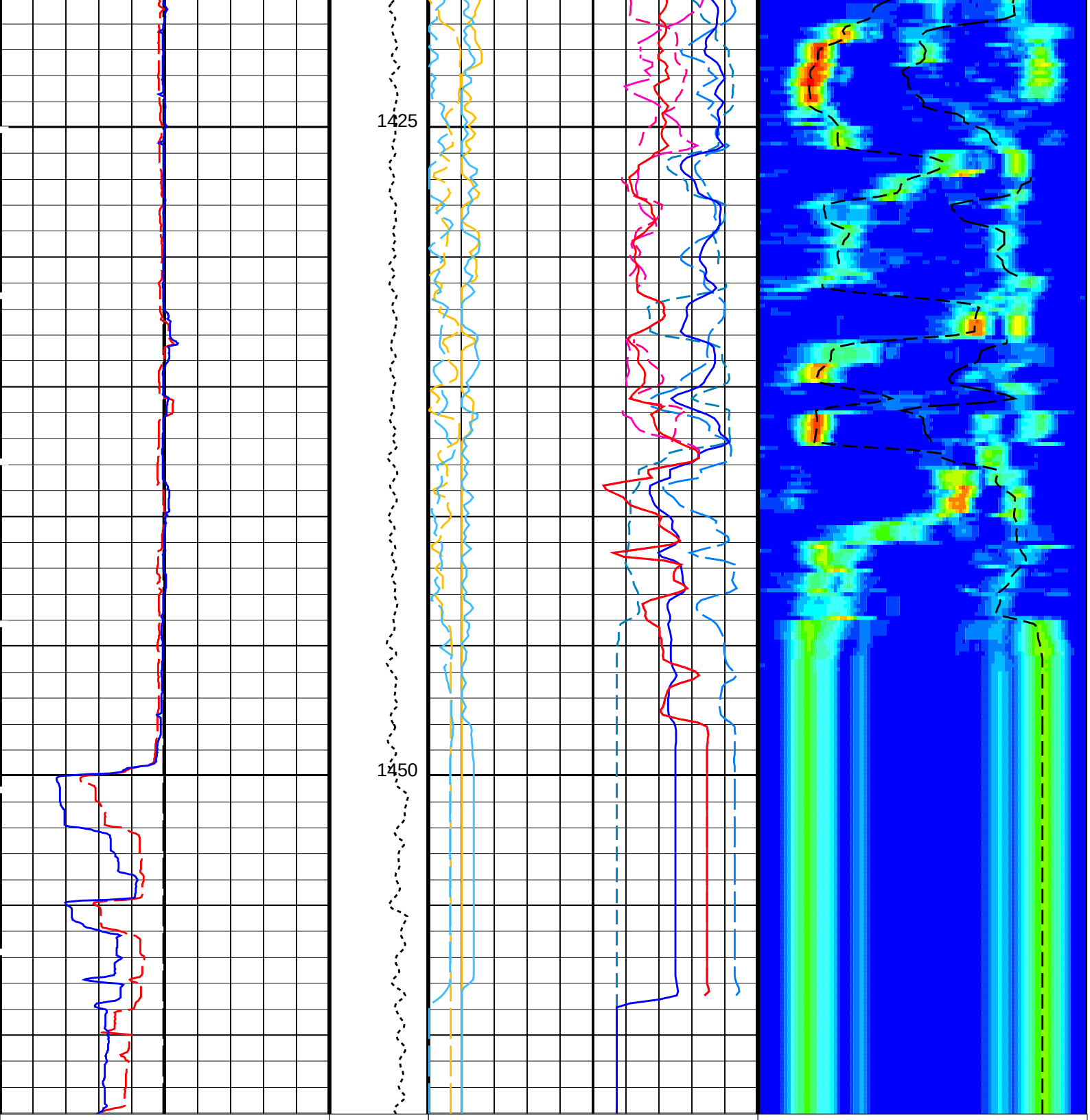
Peak Coherence / TA − P & S Shear (CHTS)		
−1	(−−−−)	9
Delta−T Shear − P & S (DT4S)		
440	(US/F)	40
Delta−T Shear / TA − P & S (DTTS)		
440	(US/F)	40
Delta−T Shear / RA − P & S (DTRS)		
440	(US/F)	40
Delta−T Comp − P & S (DT4P)		
440	(US/F)	40
Delta−T Comp / TA − P & S (DTTP)		
440	(US/F)	40
Delta−T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


Caliper 2 (C2)
0
(IN)
20
Caliper 1 (C1)
0
(IN)
20
Bit Size (BS)
0
(IN)
20
Tension
(TENS)
(LBF)
0
5000
Peak Coherence / RA − P & S Shear
(CHRS)
−1
(−−−−)
9
Peak Coherence / TA − P & S Comp
(CHTP)
0
(−−−−)
10
Peak Coherence / RA − P & S Comp
(CHRP)
0
(−−−−)
10
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
1225
1250


1275
1300


1325
1350


1375
1400



Bit Size (BS)
0 (IN) 20

Caliper 1 (C1)
0 (IN) 20

Caliper 2 (C2)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

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

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

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

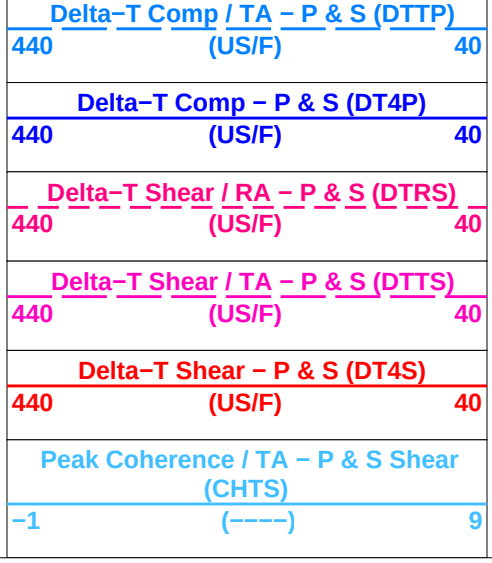
Delta−T Comp / RA − P & S (DTRP)
440 (US/F) 40

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



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSST−B: Dipole Shear Imager − B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function − Monopole P&S	50	
COLL	Label Slowness Lower Limit − Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit − Monopole P&S Compressional	220	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTF	Delta−T Fluid	212	US/F
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control − Monopole P&S	COMP_SHEAR	
LFC	Label Formation Character − Monopole P&S	COMP_FIRST	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio − Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio − Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 − Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X − Both Dipoles or Monopole Mode for Expert	OFF	
SAS4	STC Sonic Array Status − Monopole P&S	255	
SBO4	STC Search Band Offset − Monopole P&S	500	US
SBR4	STC Baseline Removal − Monopole P&S	ON	
SBW4	STC Search Bandwidth − Monopole P&S	2000	US
SFC4	STC Formation Character − Monopole P&S	SELECTABLE	
SFM4	STC Filter − Monopole P&S	B3−20K	
SHLL	Label Slowness Lower Limit − Monopole P&S Shear	70	US/F
SHUL	Label Slowness Upper Limit − Monopole P&S Shear	240	US/F
SLL4	STC Slowness Lower Limit − Monopole P&S	40	US/F
SST4	STC Slowness Step − Monopole P&S	2	US/F
SSW4	STC Source Waveform − Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit − Monopole Stoneley	210	US/F
STUL	Label Slowness Upper Limit − Monopole Stoneley	780	US/F
SUL4	STC Slowness Upper Limit − Monopole P&S	240	US/F
SWD4	STC Slowness Width − Monopole P&S	10	US/F
TBF4	STC Time for Baseline Fill − Monopole P&S	300	US
TLL4	STC Time Lower Limit − Monopole P&S	150	US
TST4	STC Time Step − Monopole P&S	50	US
TUL4	STC Time Upper Limit − Monopole P&S	3660	US
TWD4	STC Time Width − Monopole P&S	1000	US
TWI4	STC Integration Time Window − Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
	HNGS−RA: Hostile Natural Gamma Ray Sonde		

HNGS−BA: Hostile Natural Gamma Ray Sonde

BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: DSST_P_S_VDL_COLOR Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17		
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17		

Company: International Ocean Discovery Program Well: Expedition 396, Site U1571A

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17	1463.0 M	1207.2 M

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

PIP SUMMARY

Time Mark Every 60 S

Data Button 8 − Varies with RBS (U−MEST_RB8)
−80 (−−−−) 20

Relative Bearing (RB_MEST)
−40 (DEG) 360

Data Button 7 − Varies with RBS (U−MEST_RB7)
−70 (−−−−) 30

Pad One Azimuth (P1AZ_MEST)
−40 (DEG) 360

Data Button 6 − Varies with RBS (U−MEST_RB6)
−60 (−−−−) 40

Hole Azimuth (HAZIM)
−40 (DEG) 360

Data Button 5 − Varies with RBS (U−MEST_RB5)
−50 (−−−−) 50

Deviation (DEVIM)
0 (DEG) 10

Data Button 4 − Varies with RBS (U−MEST_RB4)
−40 (−−−−) 60

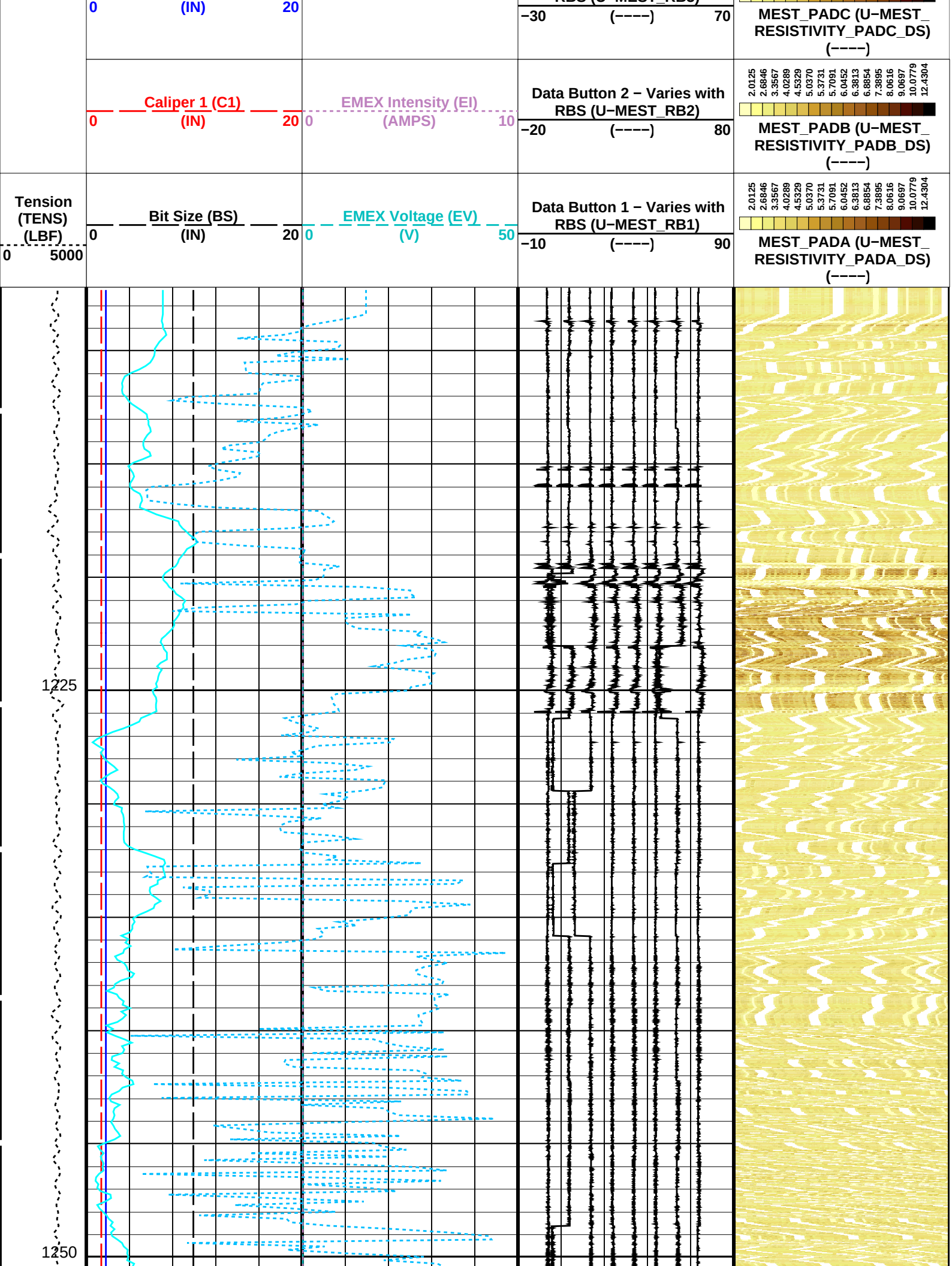
2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304

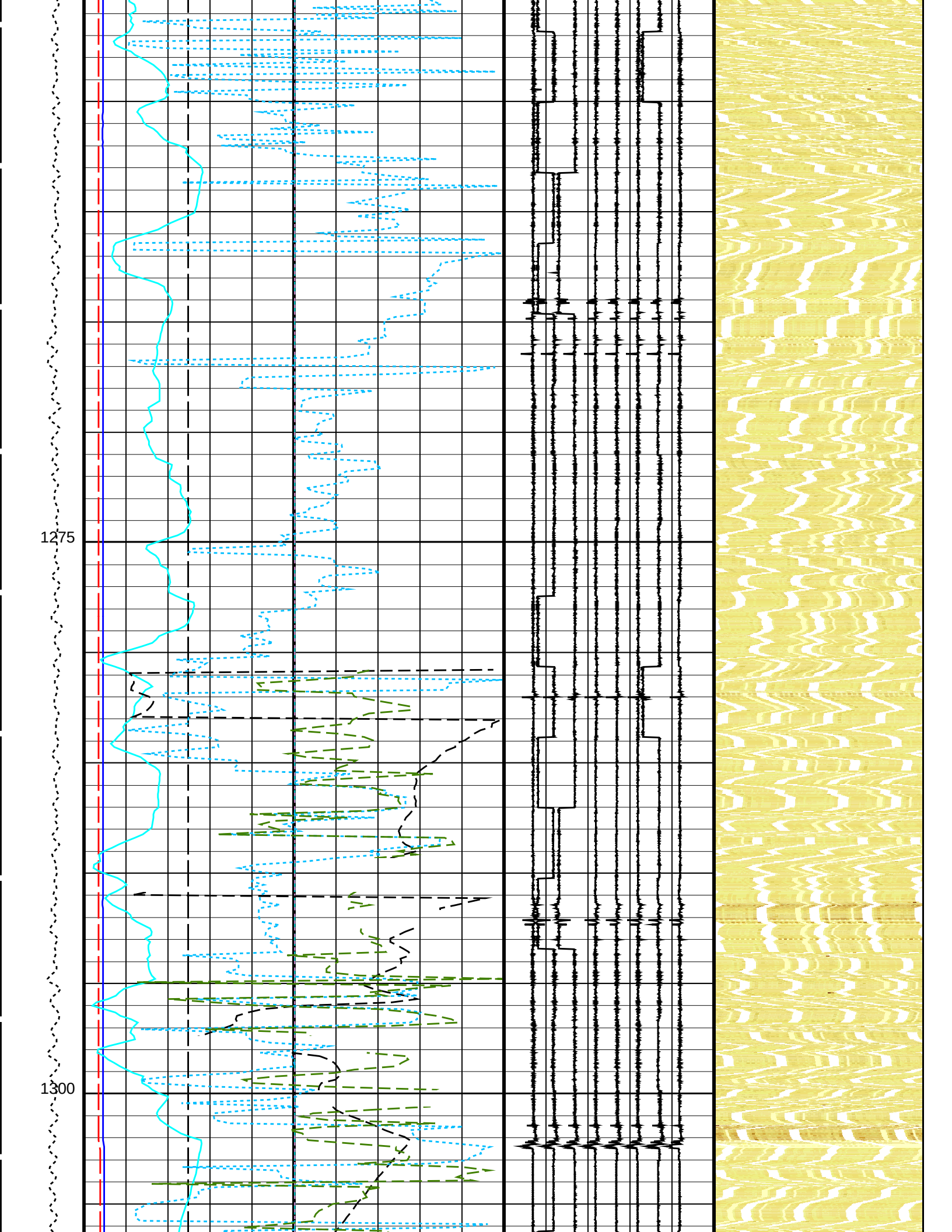
MEST_PADD (U−MEST_RESISTIVITY_PADD_DS) (−−−−)

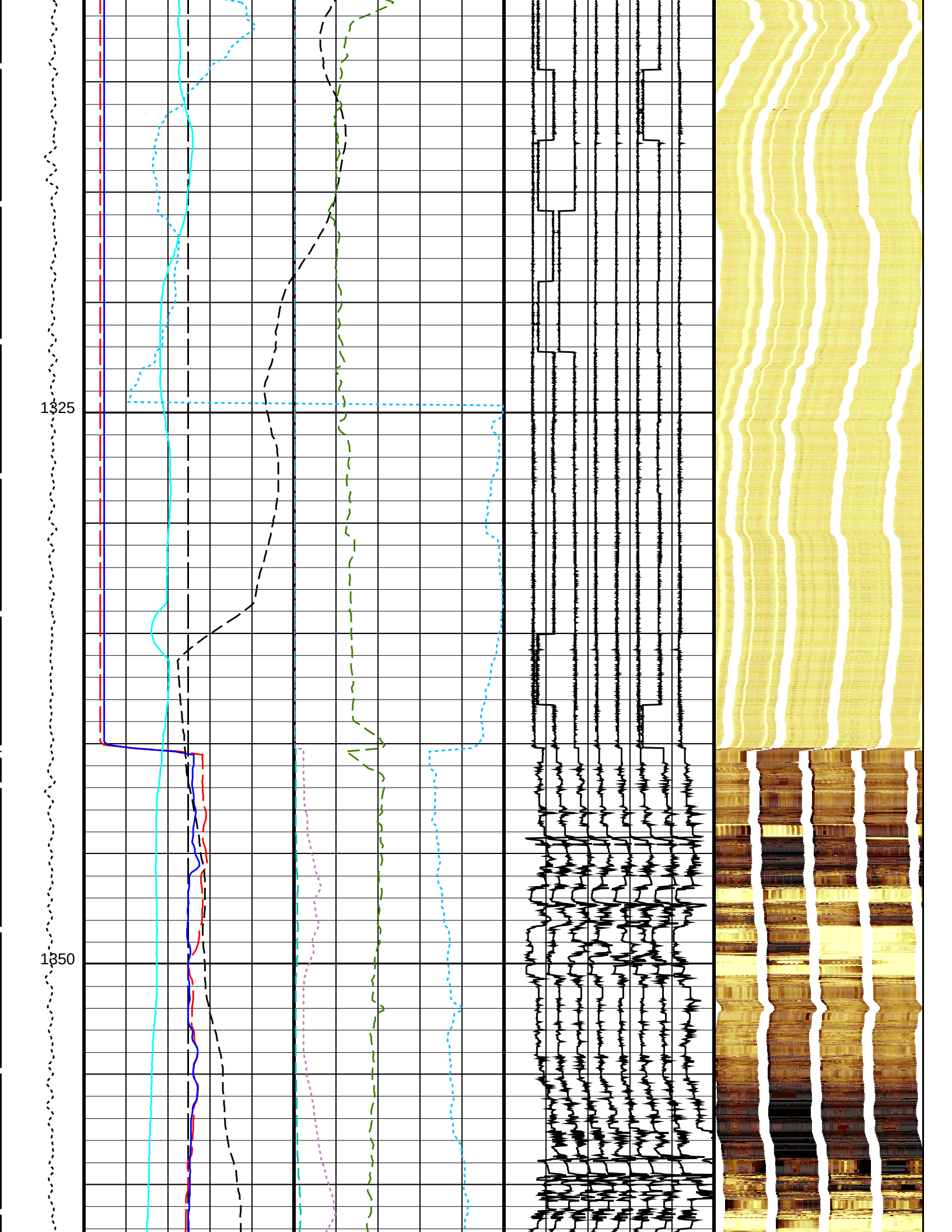
Caliper 2 (C2)

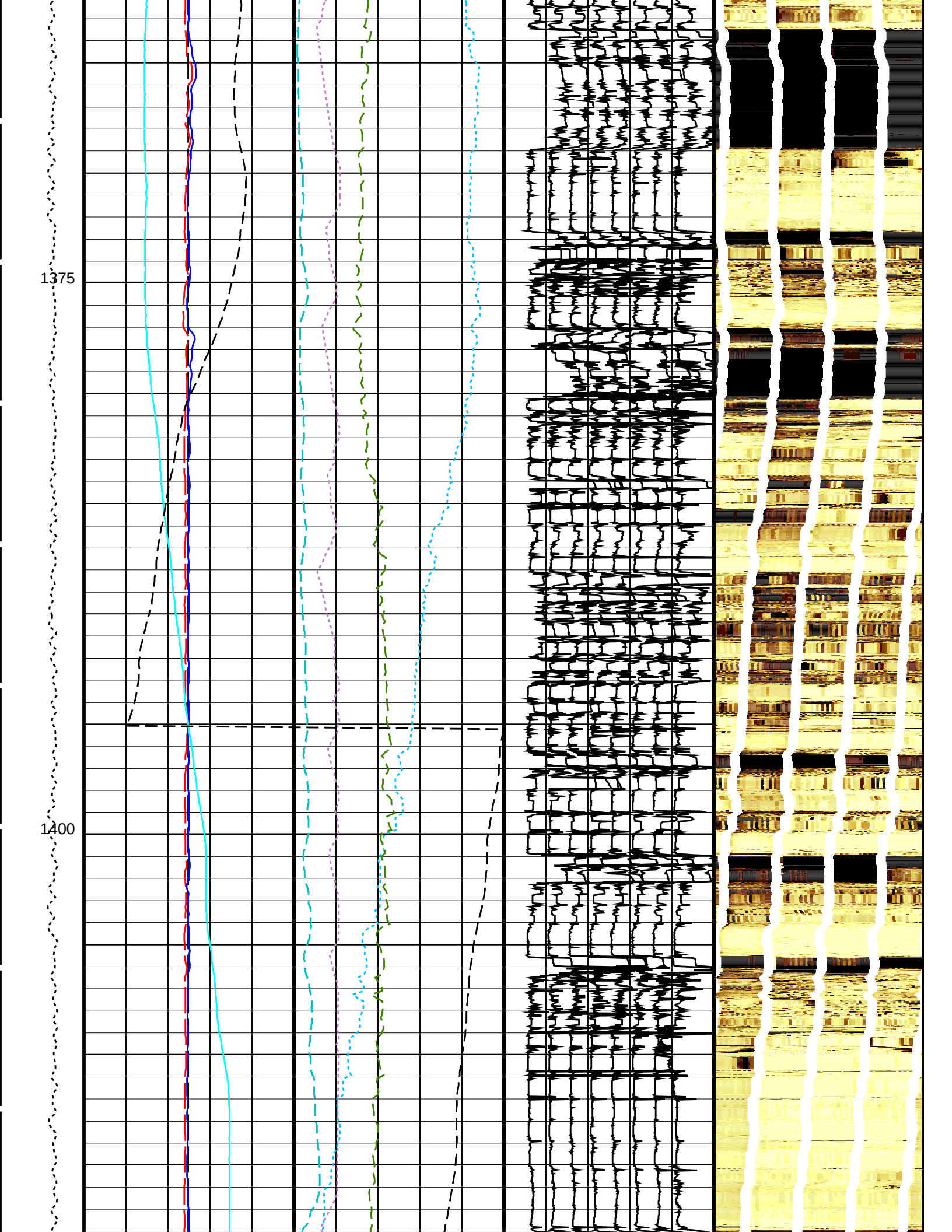
Data Button 3 − Varies with RBS (U−MEST_RB3)

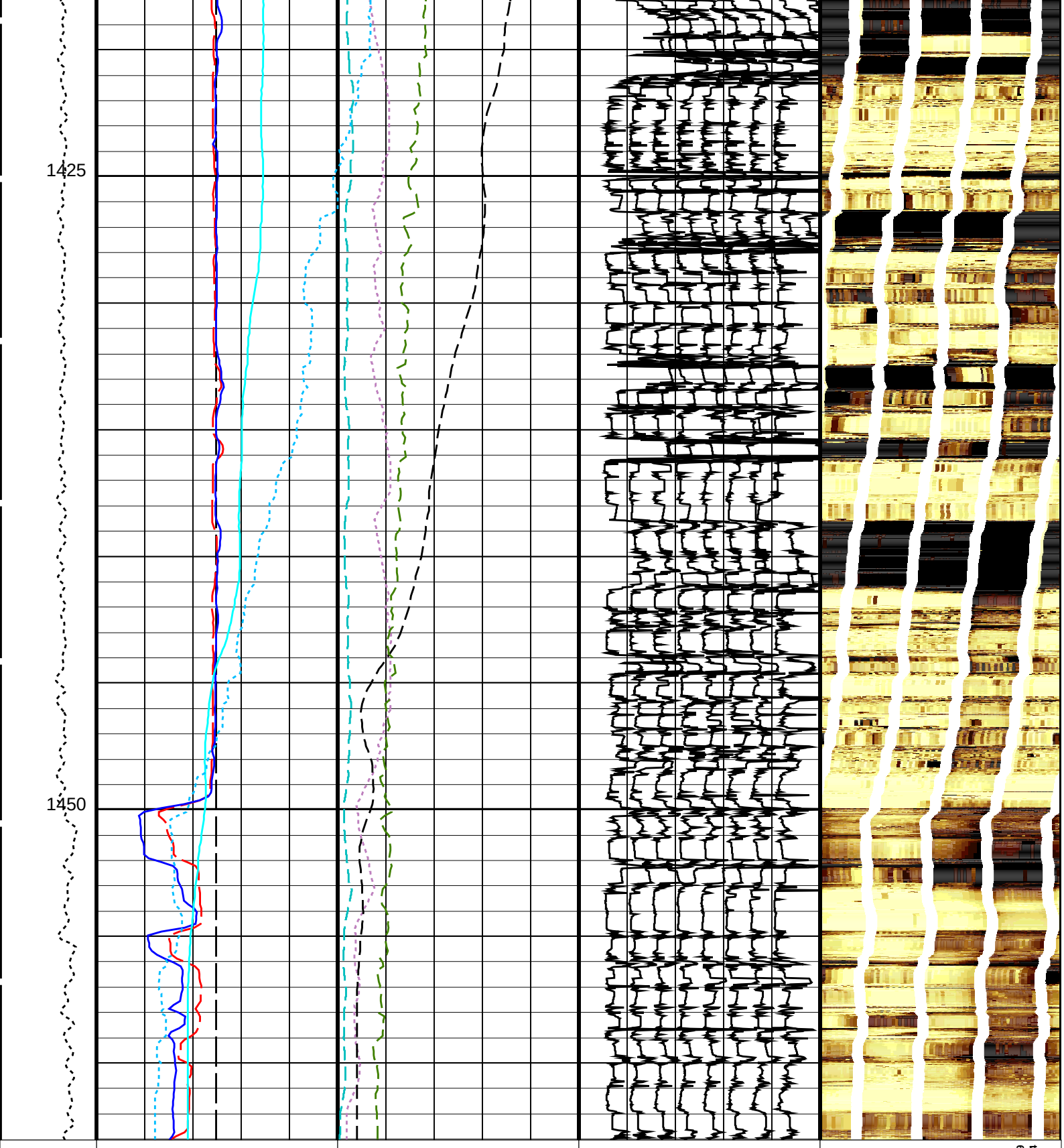
2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304


0
(IN)
20
−30
(−−−−)
70
MEST_PADC (U−MEST_
RESISTIVITY_PADC_DS)
(−−−−)
Caliper 1 (C1)
0
(IN)
20
EMEX Intensity (EI)
0
(AMPS)
10
Data Button 2 − Varies with
RBS (U−MEST_RB2)
−20
(−−−−)
80
2.0125
2.6846
3.3567
4.0289
4.5329
5.0370
5.3731
5.7091
6.0452
6.3813
6.8854
7.3895
8.0616
9.0697
10.0779
12.4304
MEST_PADB (U−MEST_
RESISTIVITY_PADB_DS)
(−−−−)
Tension
(TENS)
(LBF)
0
5000
Bit Size (BS)
0
(IN)
20
EMEX Voltage (EV)
0
(V)
50
Data Button 1 − Varies with
RBS (U−MEST_RB1)
−10
(−−−−)
90
MEST_PADA (U−MEST_
RESISTIVITY_PADA_DS)
(−−−−)
1225
1250


1275
1300


1325
1350


1375
1400



Tension (TENS) (LBF)	Bit Size (BS)	EMEX Voltage (EV)	Data Button 1 − Varies with RBS (U−MEST_RB1)	MEST_PADA (U−MEST_RESISTIVITY_PADA_DS) (−−−−)
0 5000	0 (IN) 20	0 (V) 50	−10 (−−−−) 90	2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304
	Caliper 1 (C1)	EMEX Intensity (EI)	Data Button 2 − Varies with RBS (U−MEST_RB2)	MEST_PADB (U−MEST_RESISTIVITY_PADB_DS) (−−−−)
	0 (IN) 20	0 (AMPS) 10	−20 (−−−−) 80	2.0125 2.6846 3.3567 4.0289 4.5329 5.0370 5.3731 5.7091 6.0452 6.3813 6.8854 7.3895 8.0616 9.0697 10.0779 12.4304

Caliper 2 (C2) 0 (IN) 20		Data Button 3 − Varies with RBS (U−MEST_RB3) −30 (−−−−) 70
		MEST_PADC (U−MEST_ RESISTIVITY_PADC_DS) (−−−−)
Deviation (DEVIM) 0 (DEG) 10		Data Button 4 − Varies with RBS (U−MEST_RB4) −40 (−−−−) 60
		MEST_PADD (U−MEST_ RESISTIVITY_PADD_DS) (−−−−)
Hole Azimuth (HAZIM) −40 (DEG) 360		Data Button 5 − Varies with RBS (U−MEST_RB5) −50 (−−−−) 50
Pad One Azimuth (P1AZ_MEST) −40 (DEG) 360		Data Button 6 − Varies with RBS (U−MEST_RB6) −60 (−−−−) 40
Relative Bearing (RB_MEST) −40 (DEG) 360		Data Button 7 − Varies with RBS (U−MEST_RB7) −70 (−−−−) 30
		Data Button 8 − Varies with RBS (U−MEST_RB8) −80 (−−−−) 20

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MEST−B: Micro Electrical Scanner − B (Slim)		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	1.0864	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ Vertical Scale: 1:200 Graphics File Created: 09−Sep−2021 17:17

OP System Version: 19C0−187

MEST−B	19C0−187	DTA−A	19C0−187
DSST−B	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	DTC−H	19C0−187

Input DLIS Files

DEFAULT	FMS_DSI_NGS_031LUP	FN:38	PRODUCER	09−Sep−2021 16:18	1463.0 M	1207.2 M

Output DLIS Files

DEFAULT	FMS_DSI_NGS_036PUP	FN:45	PRODUCER	09−Sep−2021 17:17
RTB	FMS_DSI_NGS_036PUP	FN:46	PRODUCER	09−Sep−2021 17:17

Schlumberger

Calibrations

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M01							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT M0−M1 Voltage Plus − 0	0	N/A	−318.6	−318.6	−0.005493	9.681	UV
HRLT M0−M1 Voltage Plus − 1	0	N/A	−329.7	−330.2	−0.4967	9.681	UV
HRLT M0−M1 Voltage Plus − 2	0	N/A	−337.4	−337.2	0.2227	9.681	UV
HRLT M0−M1 Voltage Plus − 3	0	N/A	−328.0	−328.4	−0.4185	9.681	UV
HRLT M0−M1 Voltage Plus − 4	0	N/A	−319.7	−319.9	−0.1586	9.681	UV
HRLT M0−M1 Voltage Plus − 5	0	N/A	−321.5	−321.6	−0.08450	9.681	UV
HRLT M0−M1 Voltage Plus − 6	0	N/A	318.9	319.2	0.3032	9.681	UV
HRLT M0−M1 Voltage Plus − 7	0	N/A	−322.7	−322.7	0	9.681	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M12							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT M1−M2 Voltage Plus − 0	0	N/A	1738	1739	0.2095	53.42	UV
HRLT M1−M2 Voltage Plus − 1	0	N/A	1807	1809	2.321	53.42	UV
HRLT M1−M2 Voltage Plus − 2	0	N/A	1841	1840	−1.365	53.42	UV
HRLT M1−M2 Voltage Plus − 3	0	N/A	1788	1790	1.992	53.42	UV
HRLT M1−M2 Voltage Plus − 4	0	N/A	1742	1742	0.5934	53.42	UV
HRLT M1−M2 Voltage Plus − 5	0	N/A	1752	1752	0.3652	53.42	UV
HRLT M1−M2 Voltage Plus − 6	0	N/A	−1755	−1757	−1.553	53.42	UV
HRLT M1−M2 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M23							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT M2−M3 Voltage Plus − 0	0	N/A	1731	1731	0.4761	53.42	UV
HRLT M2−M3 Voltage Plus − 1	0	N/A	1808	1811	2.386	53.42	UV
HRLT M2−M3 Voltage Plus − 2	0	N/A	1845	1844	−1.342	53.42	UV
HRLT M2−M3 Voltage Plus − 3	0	N/A	1796	1798	2.499	53.42	UV
HRLT M2−M3 Voltage Plus − 4	0	N/A	1744	1745	0.8494	53.42	UV
HRLT M2−M3 Voltage Plus − 5	0	N/A	1755	1756	0.6368	53.42	UV
HRLT M2−M3 Voltage Plus − 6	0	N/A	−1746	−1748	−1.680	53.42	UV
HRLT M2−M3 Voltage Plus − 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT V34							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT A3−A4 Voltage Plus − 0	0	N/A	68590	68630	32.61	2100	UV
HRLT A3−A4 Voltage Plus − 1	0	N/A	71540	71650	114.3	2100	UV
HRLT A3−A4 Voltage Plus − 2	0	N/A	73260	73240	−25.46	2100	UV
HRLT A3−A4 Voltage Plus − 3	0	N/A	71560	71670	108.5	2100	UV
HRLT A3−A4 Voltage Plus − 4	0	N/A	69440	69490	46.80	2100	UV
HRLT A3−A4 Voltage Plus − 5	0	N/A	69900	69940	38.83	2100	UV
HRLT A3−A4 Voltage Plus − 6	0	N/A	−68110	−68170	−58.08	2100	UV
HRLT A3−A4 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT V45							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT A4−A5 Voltage Plus − 0	0	N/A	68690	68710	20.70	2100	UV
HRLT A4−A5 Voltage Plus − 1	0	N/A	71750	71870	116.1	2100	UV
HRLT A4−A5 Voltage Plus − 2	0	N/A	73450	73420	−27.93	2100	UV
HRLT A4−A5 Voltage Plus − 3	0	N/A	71720	71830	107.8	2100	UV
HRLT A4−A5 Voltage Plus − 4	0	N/A	69550	69590	36.77	2100	UV
HRLT A4−A5 Voltage Plus − 5	0	N/A	70000	70030	31.07	2100	UV
HRLT A4−A5 Voltage Plus − 6	0	N/A	−68310	−68370	−59.80	2100	UV
HRLT A4−A5 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV
High Resolution Laterolog Array − B Wellsite Calibration − HRLT V56							
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31							
HRLT A5−A6 Voltage Plus − 0	0	N/A	68540	68560	16.94	2100	UV
HRLT A5−A6 Voltage Plus − 1	0	N/A	71600	71700	100.6	2100	UV
HRLT A5−A6 Voltage Plus − 2	0	N/A	73320	73260	−59.98	2100	UV
HRLT A5−A6 Voltage Plus − 3	0	N/A	71580	71670	92.60	2100	UV
HRLT A5−A6 Voltage Plus − 4	0	N/A	69410	69450	33.43	2100	UV
HRLT A5−A6 Voltage Plus − 5	0	N/A	69870	69900	23.94	2100	UV
HRLT A5−A6 Voltage Plus − 6	0	N/A	−68160	−68220	−63.27	2100	UV
HRLT A5−A6 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VTP
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Torpedo−M0 Voltage − 0	0	N/A	−68080	−68100	−19.77	2100	UV
HRLT Torpedo−M0 Voltage − 1	0	N/A	−71410	−71490	−87.80	2100	UV
HRLT Torpedo−M0 Voltage − 2	0	N/A	−73150	−73100	47.71	2100	UV
HRLT Torpedo−M0 Voltage − 3	0	N/A	−71500	−71590	−91.14	2100	UV
HRLT Torpedo−M0 Voltage − 4	0	N/A	−69390	−69420	−31.27	2100	UV
HRLT Torpedo−M0 Voltage − 5	0	N/A	−69840	−69860	−24.72	2100	UV
HRLT Torpedo−M0 Voltage − 6	0	N/A	67920	67980	60.20	2100	UV
HRLT Torpedo−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VBD
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Bridle#9−M0 Voltage − 0	0	N/A	−68110	−68130	−21.56	2100	UV
HRLT Bridle#9−M0 Voltage − 1	0	N/A	−71490	−71590	−104.3	2100	UV
HRLT Bridle#9−M0 Voltage − 2	0	N/A	−73250	−73200	48.49	2100	UV
HRLT Bridle#9−M0 Voltage − 3	0	N/A	−71570	−71670	−91.86	2100	UV
HRLT Bridle#9−M0 Voltage − 4	0	N/A	−69440	−69470	−31.28	2100	UV
HRLT Bridle#9−M0 Voltage − 5	0	N/A	−69870	−69900	−29.06	2100	UV
HRLT Bridle#9−M0 Voltage − 6	0	N/A	68010	68070	65.13	2100	UV
HRLT Bridle#9−M0 Voltage − 7	0	N/A	−70000	−70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT ISO
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Source Current Plus − 0	0	N/A	284.2	284.2	0.03940	8.520	UA
HRLT Source Current Plus − 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus − 7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array − B Wellsite Calibration − HRLT MV
Before: 9−Sep−2021 10:02 After: 9−Sep−2021 13:31

HRLT Vertical Voltage Pl − 0	0	N/A	−320.6	−320.3	0.2594	9.681	UV
HRLT Vertical Voltage Pl − 1	0	N/A	−324.7	−324.9	−0.2177	9.681	UV
HRLT Vertical Voltage Pl − 2	0	N/A	−331.0	−330.5	0.5528	9.681	UV
HRLT Vertical Voltage Pl − 3	0	N/A	−320.0	−320.1	−0.08060	9.681	UV
HRLT Vertical Voltage Pl − 4	0	N/A	−309.0	−308.9	0.1237	9.681	UV
HRLT Vertical Voltage Pl − 5	0	N/A	−325.6	−325.4	0.1791	9.681	UV
HRLT Vertical Voltage Pl − 6	0	N/A	326.6	326.8	0.1860	9.681	UV
HRLT Vertical Voltage Pl − 7	0	N/A	−322.7	−322.7	0	9.681	UV

Hostile Litho−Density Sonde Wellsite Calibration − Background Measurement
Master: Calibration out of date 2−May−2021 7:20 Before: 9−Sep−2021 10:05 After: 9−Sep−2021 13:35

SS Cs Resolution Bkg	9.000	7.698	7.703	7.690	−0.01328	1.800	%
LS Cs Resolution Bkg	9.000	7.989	7.978	8.019	0.04087	1.800	%
LSW1 Background	100.0	71.96	70.38	70.47	0.09118	3.000	CPS
LSW2 Background	100.0	65.02	64.58	63.52	−1.057	3.000	CPS
LSW3 Background	200.0	146.1	144.8	144.3	−0.4597	6.000	CPS
LSW4 Background	250.0	183.2	180.8	180.4	−0.4252	7.500	CPS
LSW5 Background	600.0	424.9	420.1	421.2	1.040	18.00	CPS
SSW1 Background	100.0	68.97	69.08	68.56	−0.5165	3.000	CPS
SSW2 Background	200.0	118.2	117.7	117.8	0.1302	6.000	CPS
SSW3 Background	500.0	331.3	330.1	328.9	−1.180	15.00	CPS
SSW4 Background	270.0	178.4	177.3	177.1	−0.1587	8.100	CPS
SSW5 Background	200.0	127.4	127.0	127.1	0.1198	6.000	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Aluminum Measurement
Master: Calibration out of date 2−May−2021 7:46

LSW1 Aluminum	600.0	437.4	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	651.2	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	787.2	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	396.8	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	364.1	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2070	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5832	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8191	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3322	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	384.2	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Lithology Measurement
Master: Calibration out of date 2−May−2021 7:41

LSW1 Iron	400.0	298.6	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	524.2	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	699.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	360.1	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	333.9	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1520	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4870	N/A	N/A	N/A	N/A	CPS

SSW3 Iron	10800	7479	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3030	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	343.3	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Caliper Calibration
Before: Calibration out of date 2−May−2021 8:12

HLDS Caliper Small Ring	12.00	N/A	16.10	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	20.13	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 1 Check
Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Na 511 Peak Loc	40.00	39.25	39.63	39.78	0.1486	1.000	
Na 511 Peak Res	15.50	16.53	14.91	16.74	1.837	2.000	%
High Voltage	1150	1197	1172	1174	1.904	N/A	V
Na 1785 Peak Loc	142.6	141.8	142.7	142.7	0.004044	7.000	
Na 1785 Peak Res	8.500	8.905	9.365	8.178	−1.187	2.000	%
Temperature	15.50	26.59	13.81	13.78	−0.02595	N/A	DEGC
Na Count Rate	45.00	12.01	9.905	10.91	1.009	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check
Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Na 511 Peak Loc	40.00	39.88	39.64	39.70	0.05802	1.000	
Na 511 Peak Res	15.50	15.29	15.01	15.60	0.5940	2.000	%
High Voltage	1150	1122	1099	1100	0.4370	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.9	143.5	0.5947	7.000	
Na 1785 Peak Res	8.500	8.040	9.948	8.474	−1.474	2.000	%
Temperature	15.50	27.21	14.41	15.08	0.6698	N/A	DEGC
Na Count Rate	45.00	12.32	10.14	10.96	0.8186	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2
Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Coincidence Count Rate Ratio	1.000	0.9728	0.9813	0.9994	0.01810	0.05000

High Resolution Laterolog Array − B / Equipment Identification

Primary Equipment:		
HRLT Sonde	HRLS − B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH − B	1869
HRLT Lower Cartridge	HRLC − B	1897
HRLT upper Housing	HRUH − B	975
HRLT Upper Cartridge	HRUC − B	964

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M01

Idx	Phase	HRLT M0−M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−318.6	−322.7	−280.7	−379.7
	After		−318.6			
1	Before		−329.7	−322.7	−280.7	−379.7
	After		−330.2			
2	Before		−337.4	−322.7	−280.7	−379.7
	After		−337.2			
3	Before		−328.0	−322.7	−280.7	−379.7
	After		−328.4			
4	Before		−319.7	−322.7	−280.7	−379.7
	After		−319.9			
5	Before		−321.5	−322.7	−280.7	−379.7
	After		−321.6			
6	Before		318.9	322.7	379.7	280.7
	After		319.2			
7	Before		−322.7	−322.7	−280.7	−379.7
	After		−322.7			

	After		822.7			
		(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M12

Idx	Phase	HRLT M1−M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1738	1781	2095	1549
	After		1739			
1	Before		1807	1781	2095	1549
	After		1809			
2	Before		1841	1781	2095	1549
	After		1840			
3	Before		1788	1781	2095	1549
	After		1790			
4	Before		1742	1781	2095	1549
	After		1742			
5	Before		1752	1781	2095	1549
	After		1752			
6	Before		−1755	−1781	−1549	−2095
	After		−1757			
7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M23

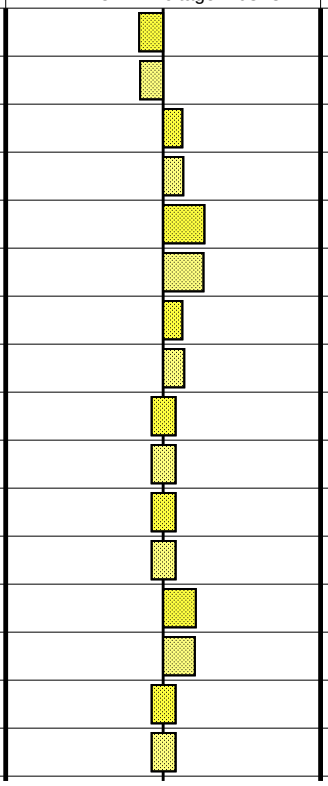
Idx	Phase	HRLT M2−M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1731	1781	2095	1549
	After		1731			
1	Before		1808	1781	2095	1549
	After		1811			
2	Before		1845	1781	2095	1549
	After		1844			
3	Before		1796	1781	2095	1549
	After		1798			
4	Before		1744	1781	2095	1549
	After		1745			
5	Before		1755	1781	2095	1549
	After		1756			
6	Before		−1746	−1781	−1549	−2095
	After		−1748			
7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V34

Idx	Phase	HRLT A3−A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68590	70000	82360	60900
	After		68630			
1	Before		71540	70000	82360	60900
	After		71650			
2	Before		73260	70000	82360	60900
	After		73240			
3	Before		71560	70000	82360	60900
	After		71670			
4	Before		69440	70000	82360	60900
	After		69490			
5	Before		69900	70000	82360	60900
	After		69940			
6	Before		−68110	−70000	−60900	−82360
	After		−68170			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

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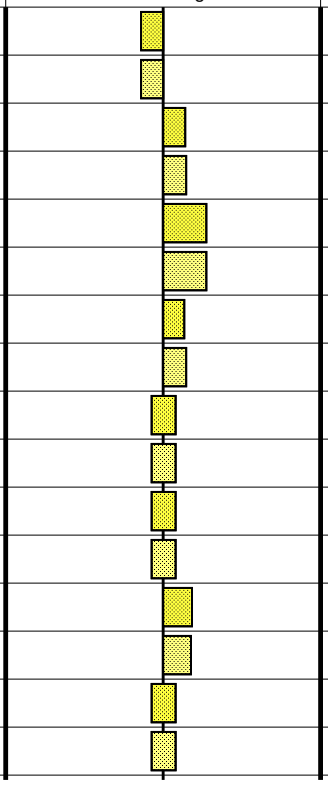
High Resolution Laterolog Array − B Wellsite Calibration

HRLT V45

Idx	Phase	HRLT A4−A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68690	70000	82360	60900
	After		68710			
1	Before		71750	70000	82360	60900
	After		71870			
2	Before		73450	70000	82360	60900
	After		73420			
3	Before		71720	70000	82360	60900
	After		71830			
4	Before		69550	70000	82360	60900
	After		69590			
5	Before		70000	70000	82360	60900
	After		70030			
6	Before		−68310	−70000	−60900	−82360
	After		−68370			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

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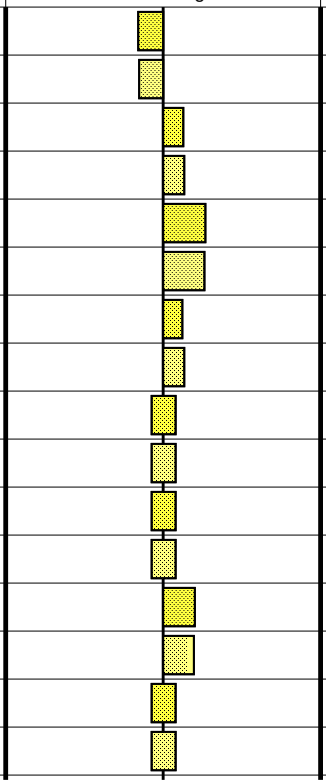
High Resolution Laterolog Array − B Wellsite Calibration

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V56

Idx	Phase	HRLT A5−A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68540	70000	82360	60900
	After		68560			
1	Before		71600	70000	82360	60900
	After		71700			
2	Before		73320	70000	82360	60900
	After		73260			
3	Before		71580	70000	82360	60900
	After		71670			
4	Before		69410	70000	82360	60900
	After		69450			
5	Before		69870	70000	82360	60900
	After		69900			
6	Before		−68160	−70000	−60900	−82360
	After		−68220			
7	Before		70000	70000	82360	60900
	After		70000			
	(Minimum)	(Nominal) (Maximum)				

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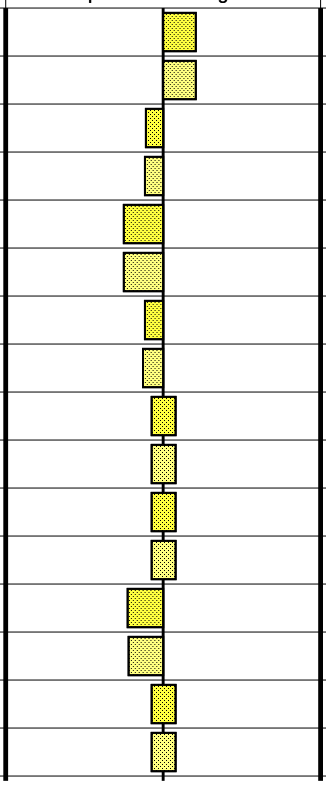
High Resolution Laterolog Array − B Wellsite Calibration

HRLT VTP

Idx	Phase	HRLT Torpedo−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68080	−70000	−60900	−82360
	After		−68100			
1	Before		−71410	−70000	−60900	−82360
	After		−71490			
2	Before		−73150	−70000	−60900	−82360
	After		−73100			
3	Before		−71500	−70000	−60900	−82360
	After		−71590			
4	Before		−69390	−70000	−60900	−82360
	After		−69420			
5	Before		−69840	−70000	−60900	−82360
	After		−69860			
6	Before		67920	70000	82360	60900
	After		67980			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
	(Minimum)	(Nominal) (Maximum)				

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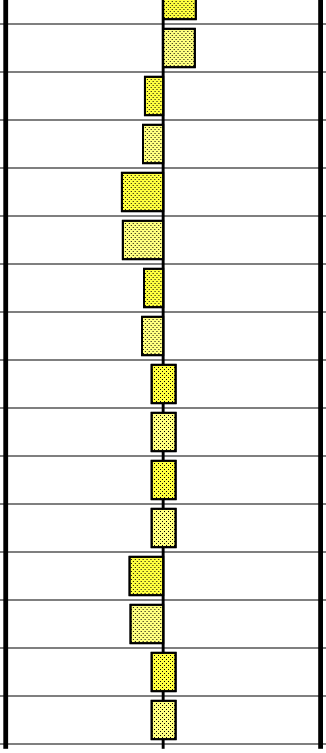
High Resolution Laterolog Array − B Wellsite Calibration

HRLT VBD

Idx	Phase	HRLT Bridle#9−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
						

Idx	Phase		Value	Nominal	Maximum	Minimum
0	Before		−68110	−70000	−60900	−82360
	After		−68130			
1	Before		−71490	−70000	−60900	−82360
	After		−71590			
2	Before		−73250	−70000	−60900	−82360
	After		−73200			
3	Before		−71570	−70000	−60900	−82360
	After		−71670			
4	Before		−69440	−70000	−60900	−82360
	After		−69470			
5	Before		−69870	−70000	−60900	−82360
	After		−69900			
6	Before		68010	70000	82360	60900
	After		68070			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
	(Minimum) (Nominal) (Maximum)					

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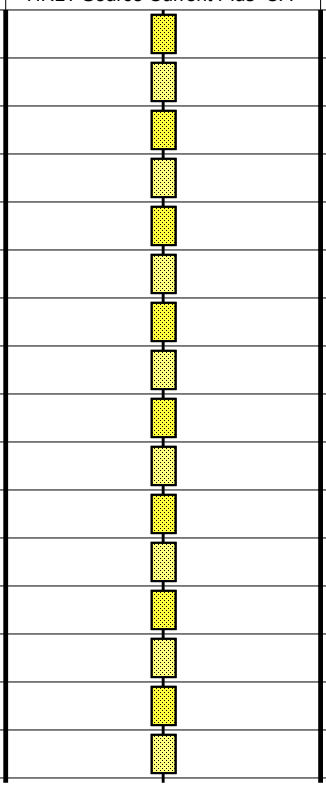
High Resolution Laterolog Array − B Wellsite Calibration

HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.2	284.0	334.1	247.0
	After		284.2			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
	(Minimum) (Nominal) (Maximum)					

Before: 9−Sep−2021 10:02

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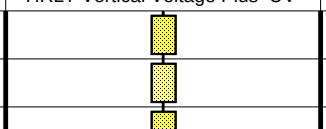
High Resolution Laterolog Array − B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−320.6	−322.7	−280.7	−379.7
	After		−320.3			

1	Before	−324.7	−322.7	−280.7	−379.7
	After	−324.9			
2	Before	−331.0	−322.7	−280.7	−379.7
	After	−330.5			
3	Before	−320.0	−322.7	−280.7	−379.7
	After	−320.1			
4	Before	−309.0	−322.7	−280.7	−379.7
	After	−308.9			
5	Before	−325.6	−322.7	−280.7	−379.7
	After	−325.4			
6	Before	326.6	322.7	379.7	280.7
	After	326.8			
7	Before	−322.7	−322.7	−280.7	−379.7
	After	−322.7			
	(Minimum) (Nominal) (Maximum)				

Before: 9−Sep−2021 10:02

After: 9−Sep−2021 13:31

Hostile Litho−Density Sonde / Equipment Identification

Primary Equipment:		
Gamma Source Radioactive	GSR − ZA	2945
Hostile Litho Density Sonde	HLDS − D	77
Hostile Litho Density High Voltage	HLDV − D	67
Auxiliary Equipment:		
Hostile Litho Density High Voltage Housi	HEH − H	67
Hostile Litho Density Pad	HLDP − C	83

Hostile Litho−Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value
Master		7.698
Before		7.703
After		7.690
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LS Cs Resolution Bkg %	Value
Master		7.989
Before		7.978
After		8.019
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LSW1 Background CPS	Value
Master		71.96
Before		70.38
After		70.47
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value
Master		65.02
Before		64.58
After		63.52
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)	

Phase	LSW3 Background CPS	Value
Master		146.1
Before		144.8
After		144.3
	110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)	

Phase	LSW4 Background CPS	Value
Master		183.2
Before		180.8
After		180.4
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	

Phase	LSW5 Background CPS	Value
Master		424.9
Before		420.1
After		421.2
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)	

Phase	SSW1 Background CPS	Value
Master		68.97
Before		69.08
After		68.56
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	SSW2 Background CPS	Value
Master		118.2
Before		117.7
After		117.8
	100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	

Phase	SSW3 Background CPS	Value
Master		331.3
Before		330.1
After		328.9
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)	

Phase	SSW4 Background CPS	Value
Master		178.4
Before		177.3
After		177.1
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)	

Phase	SSW5 Background CPS	Value
Master		127.4
Before		127.0
After		127.1
	110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)

Master: Calibration out of date 2−May−2021 7:20 Before: 9−Sep−2021 10:05 After: 9−Sep−2021 13:35

Litho−Density Spectroscopy Cartridge − B / Equipment Identification

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

Hostile Natural Gamma Ray Cartridge − B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC − B	304
Auxiliary Equipment:		
HNGC Housing	HNGH − A	3

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS − BA	99
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH − BA	102
Gamma Source Radioactive	GSR − U	6098

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value
Master		39.25
Before		39.63
After		39.78
37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		16.53
Before		14.91
After		16.74
12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)

Phase	High Voltage V	Value
Master		1197
Before		1172
After		1174
900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		141.8
Before		142.7
After		142.7
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		8.905
Before		9.365
After		8.178
7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		26.59
Before		13.81
After		13.78
−28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		12.01
Before	EXCEEDS LIMIT	9.905
After		10.91
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.88
Before		39.64
After		39.70
37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)

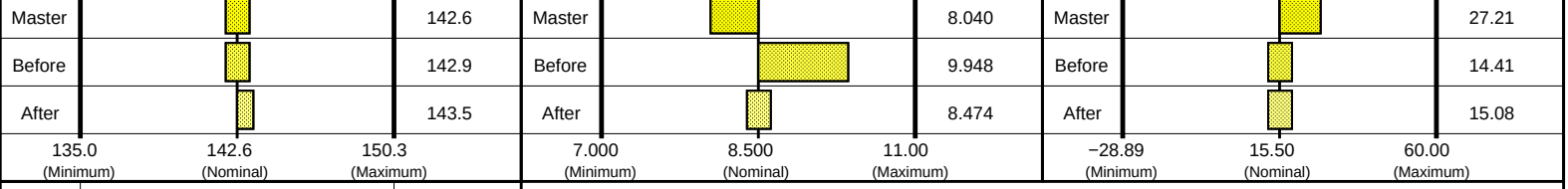
Phase	Na 511 Peak Res %	Value
Master		15.29
Before		15.01
After		15.60
12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)

Phase	High Voltage V	Value
Master		1122
Before		1099
After		1100
900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)

Phase	Na 1785 Peak Loc	Value

Phase	Na 1785 Peak Res %	Value

Phase	Temperature DEGC	Value



Phase		Value
Master		142.6
Before		142.9
After		143.5

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase		Value
Master		8.040
Before		9.948
After		8.474

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase		Value
Master		27.21
Before		14.41
After		15.08

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		12.32
Before		10.14
After		10.96

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: Calibration out of date 2−May−2021 10:04 Before: 9−Sep−2021 10:06 After: 9−Sep−2021 13:35

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9728
Before		0.9813
After		0.9994

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Master: Calibration out of date 2−May−2021 10:04

Before: 9−Sep−2021 10:06

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DTS Telemetry Tool / Equipment Identification

Primary Equipment:		
DTC−H Auxiliary Cartridge	DTCH − A	8799
DTC−H Telemetry Cartridge	DTCH − A	8799
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH − KC	9842

Company: **International Ocean Discovery Program**

Schlumberger

Well: **Expedition 396, Site U1571A**

Field: **Mid−Norwegian Cont. Margin Magmatism**

Rig: **JOIDES Resolution**

Country: **Iceland**

Dipole Sonic Imager (DSI)

Formation Microscanner (FMS)