

Well: **Expedition 384, Site U1555G**  
Field: **Engineering Testing**  
Rig: **JOIDES Resolution** Ocean: **Atlantic**

Rig: JOIDES Resolution Field: Engineering Testing Location: Latitude: N 60.2281 Well: Expedition 384, Site U1555G Company: International Ocean Discovery Program	Formation Micro Scanner (FMS) Hostile Natural Gamma Sonde (HNGS) Dipole Sonic Imager (DSI)			
	LOCATION	Latitude: N 60.2281 Longitude: W 28.5004		Elev.: K.B. 0.00 m G.L. -1534.60 m D.F. 0.00 m
		Permanent Datum: <u>Sea Floor</u>		Elev.: <u>-1534.60 m</u>
		Log Measured From: <u>Rig Floor</u>		1534.60 m above Perm. Datum
	API Serial No.	Max. Hole Devi. 4 deg	Longitude E 83.7303	Latitude N 1.22685

Logging Date			15-Aug-2020					
Run Number			1					
Depth Driller			1843.5 m					
Schlumberger Depth			1840 m					
Bottom Log Interval			1830 m					
Top Log Interval			1534.6 m					
Casing Driller Size @ Depth			5.500 in @ 1737 m			@		
Casing Schlumberger			1735 m					
Bit Size			9.875 in					
Type Fluid In Hole			Sepiolite Barite weighted					
MUD	Density	Viscosity	1.26 g/cm3					
	Fluid Loss	PH		8.07				
	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	0.321 @ 9	@ 9	@	@			
Maximum Recorded Temperatures			9 degC					
Circulation Stopped		Time	14-Aug-2020 20:00					
Logger On Bottom		Time	15-Aug-2020 7:06					
Unit Number	Location	627314 Larose, LA						
Recorded By			K. Swain					
Witnessed By			Dan Marone					

[illegible]





[illegible]

DISCLAIMER

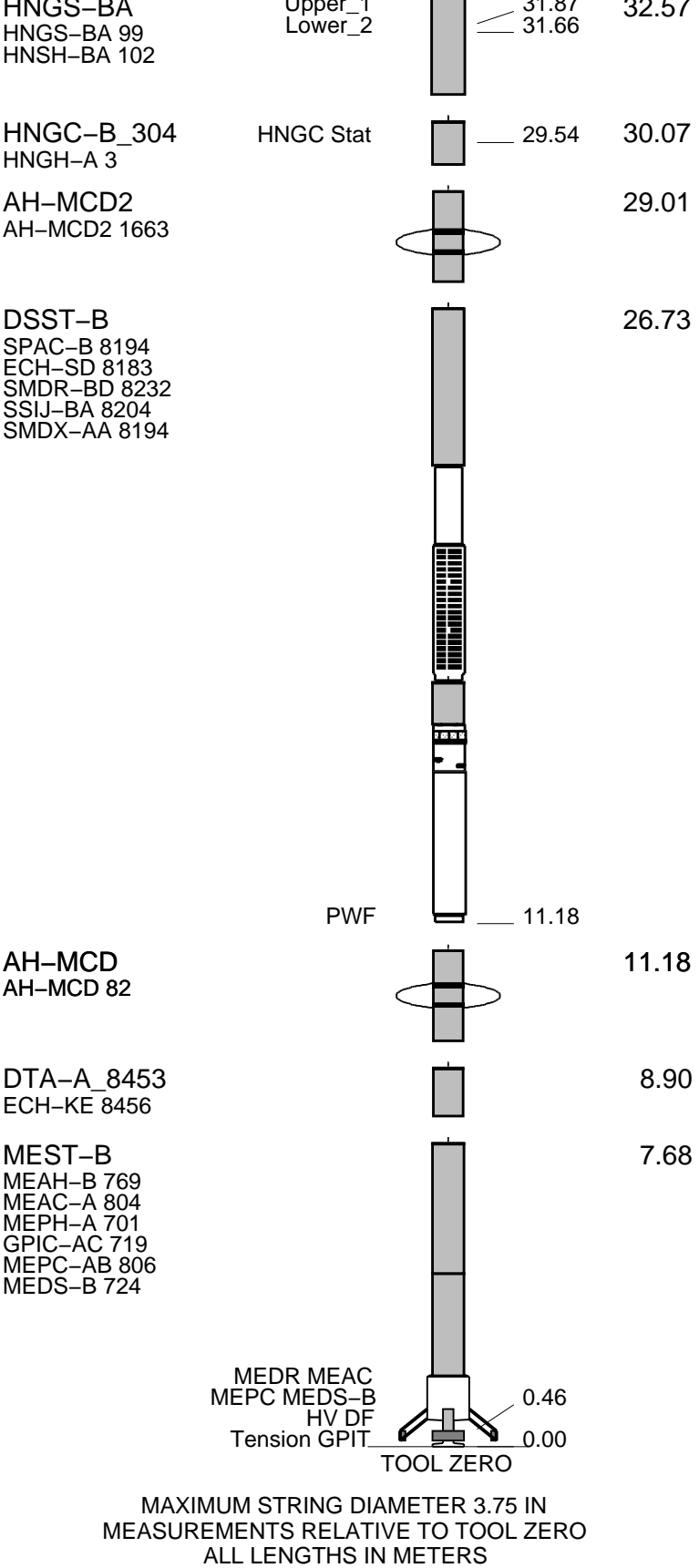
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA;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

OTHER SERVICES1 OS1: Tcombo OS2: VSI OS3: OS4: OS5:			OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:		
REMARKS: RUN NUMBER 1			REMARKS: RUN NUMBER 2		
Hole drilled with RCB bottom hole assembly (BHA) at 9--7/8" BS					
Drill pipe set at 1737 mbrf.					
Fluid type was Sepeolite mud weighted with Barite.					
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.					
Hole size corrections made using caliper measurements for upward passes.					
AHC used from TD then switched off to facilitate pipe entry.					
10.5 lb/gal mud pumped in hole prior to logging.					
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 19C0--187			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

RUN 1		RUN 2	
SURFACE EQUIPMENT			
GSR-U 616008			
WITM (DTS)-A 1			
DOWNHOLE EQUIPMENT			
LEH-QT		34.81	
LEH-QT 301			
AH-369		33.21	33.92
DTC-H	CTEM		
ECH-KC 9842	TelStatus	32.57	33.49
	ToolStatu		
UNOC-DA	Unoper 1	31.87	32.57





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



[illegible]





Input DLIS Files					
DEFAULT	Flip_FMS_DSI_NGS_072LUP	PRODUCER	20-Aug-2020 03:26	1830.2 M	1467.6 M
Output DLIS Files					
DEFAULT	FMS_DSI_NGS_112PUP	FN:112 PRODUCER	26-Aug-2020 04:59	1830.2 M	1467.6 M

OP System Version: 19C0-187					
MEST-B	19C0-187	DTA-A_8453	19C0-187		
DSST-B	19C0-187	HNGC-B_304	19C0-187		
HNGS-BA	19C0-187	DTC-H	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

Area1  
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)

0 (GAPI) 100

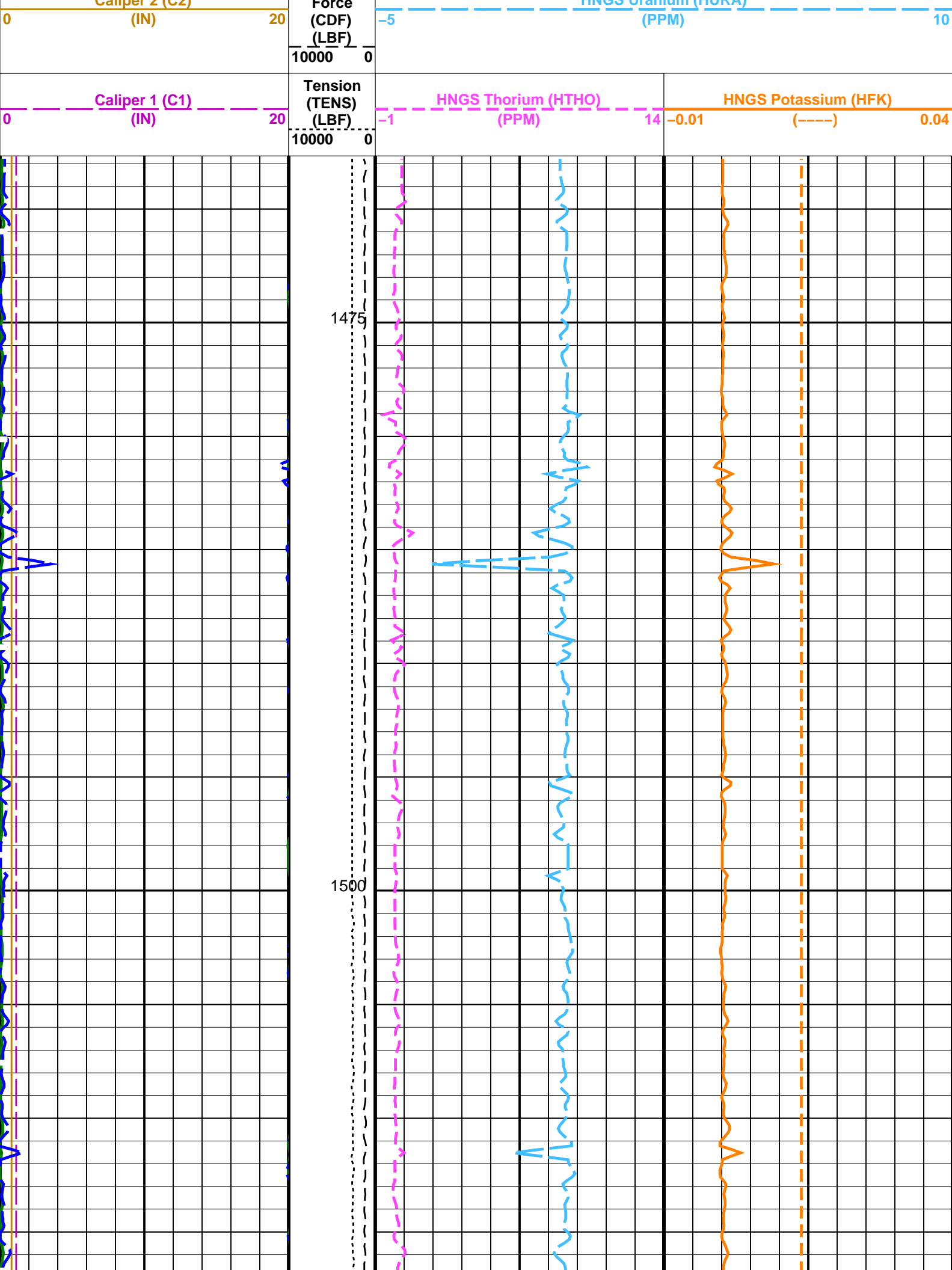
Download

HNGS Borehole Potassium (HBHK)

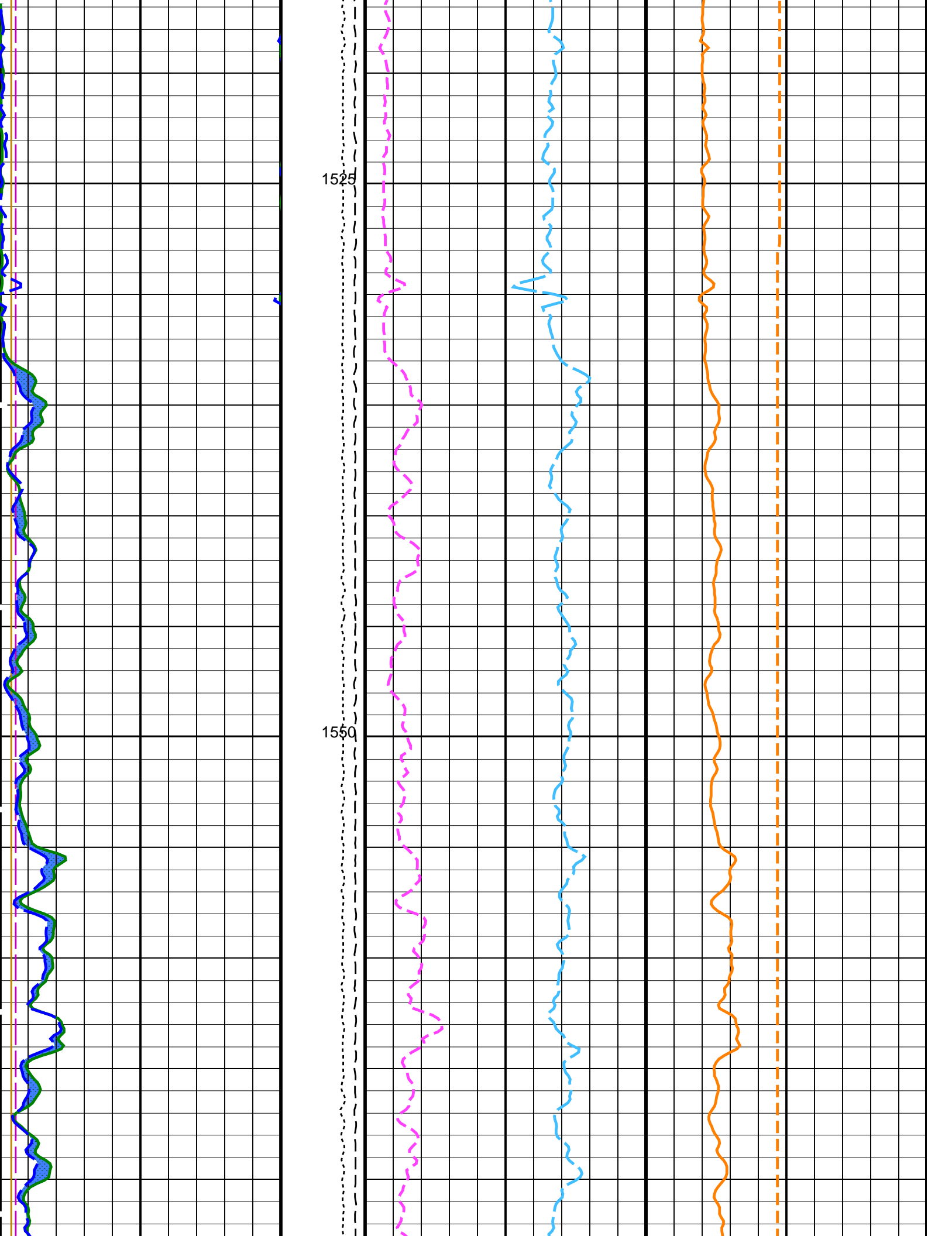
-0.05 (-----) 0.05

Caliper 2 (C2)	Calibrated Downhole	HNGS Uranium (HURA)
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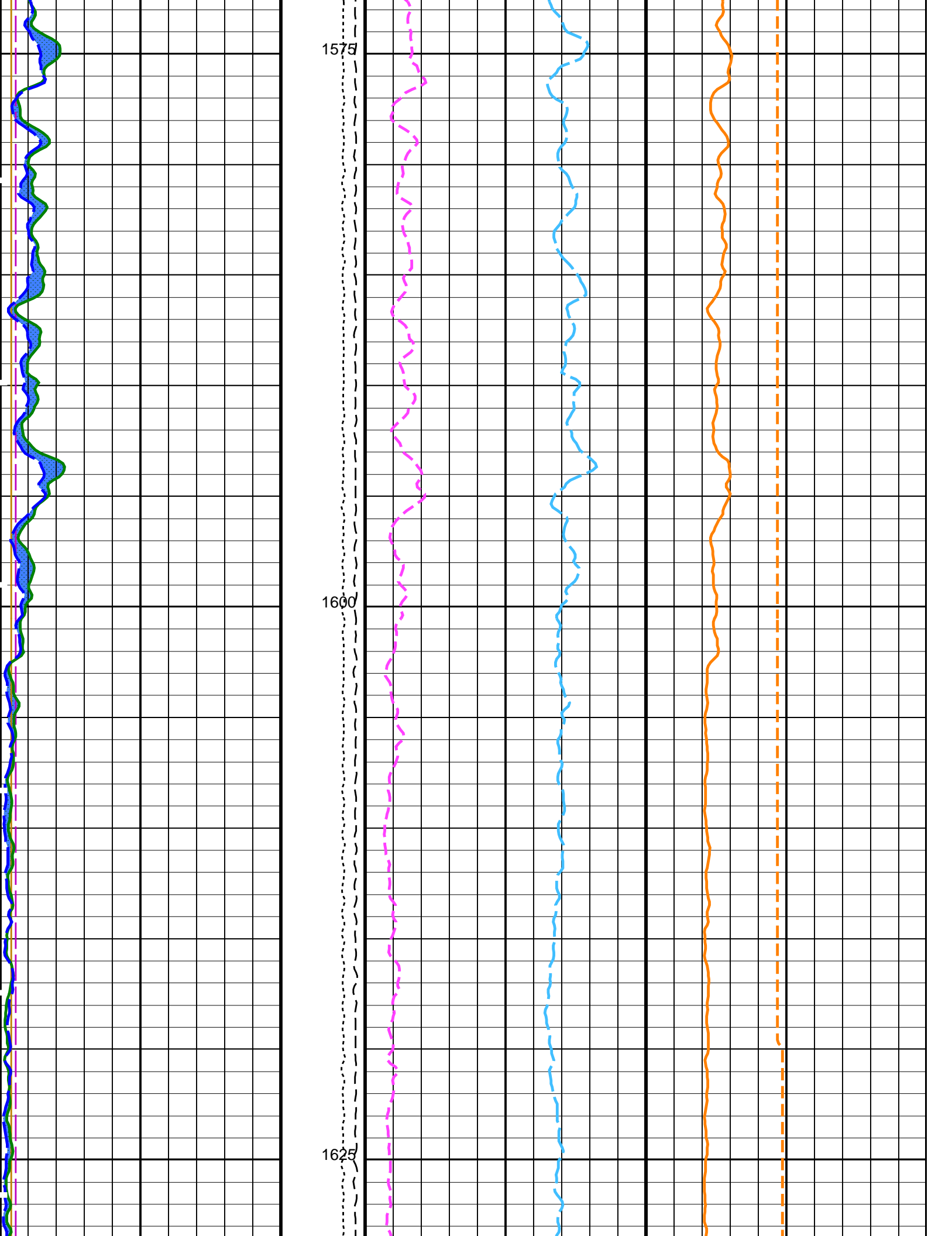




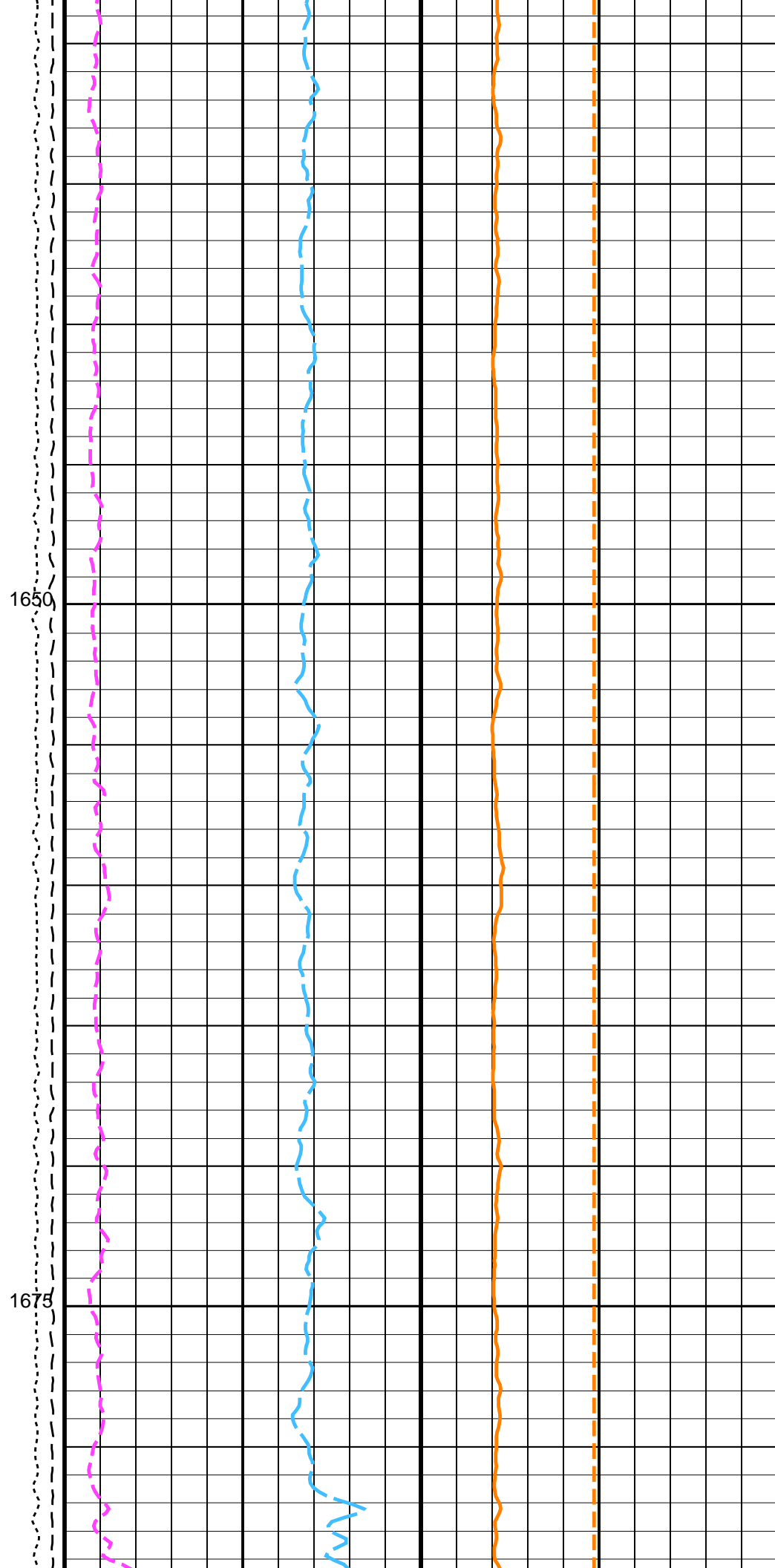
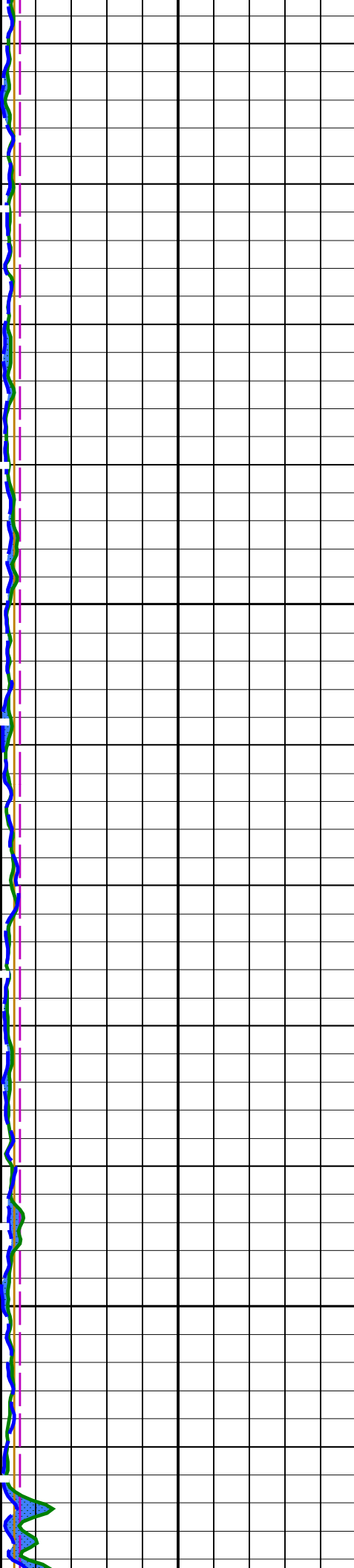




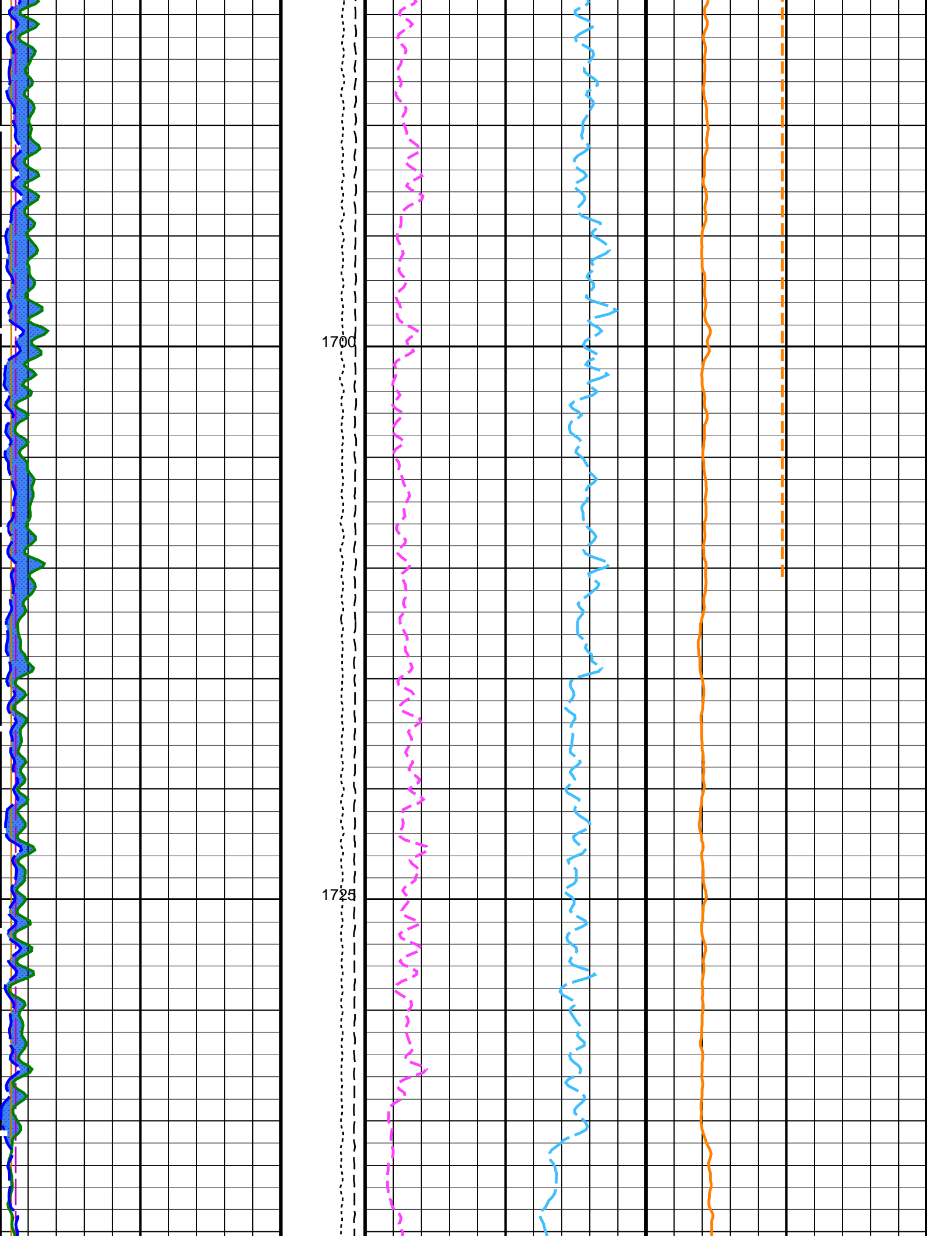




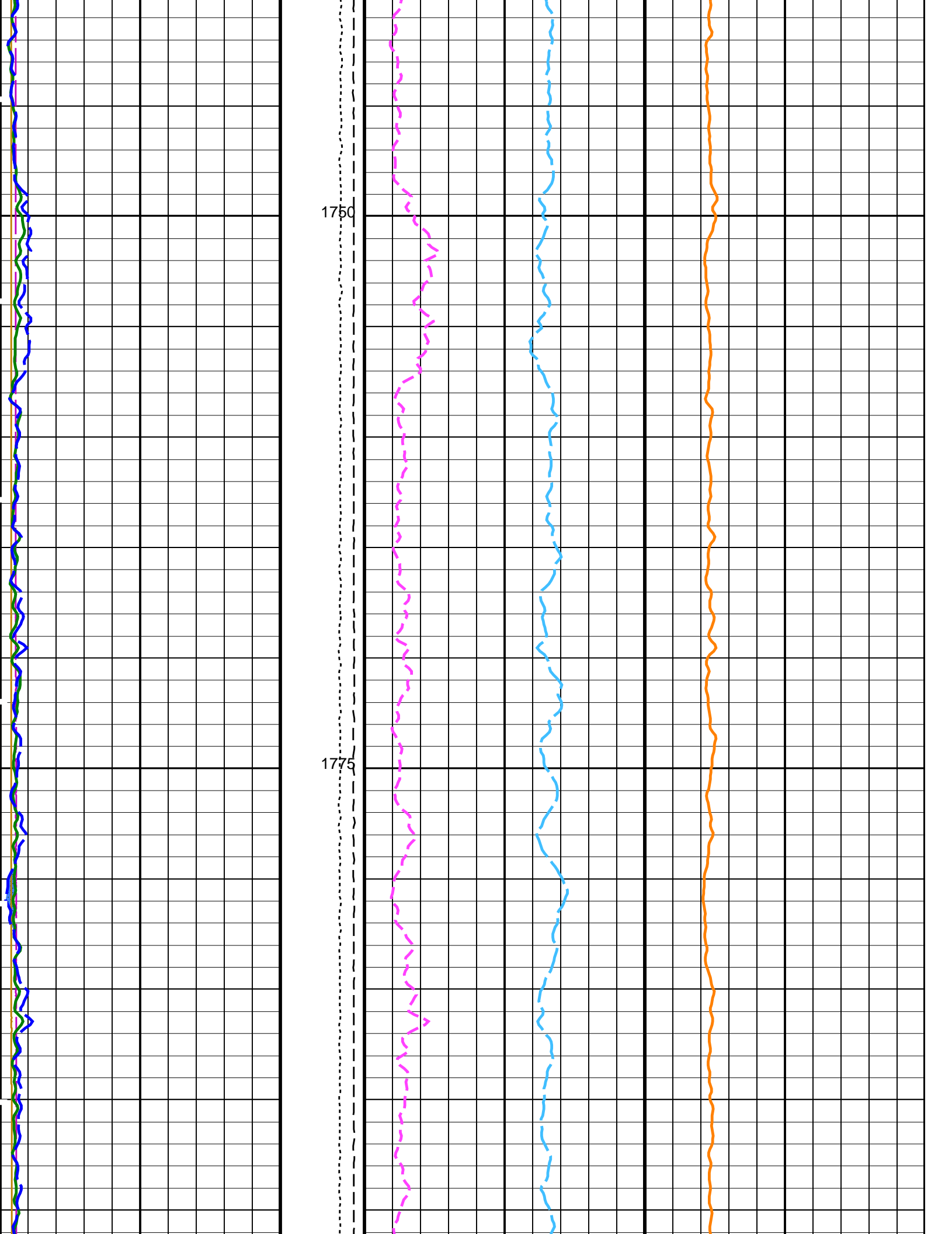




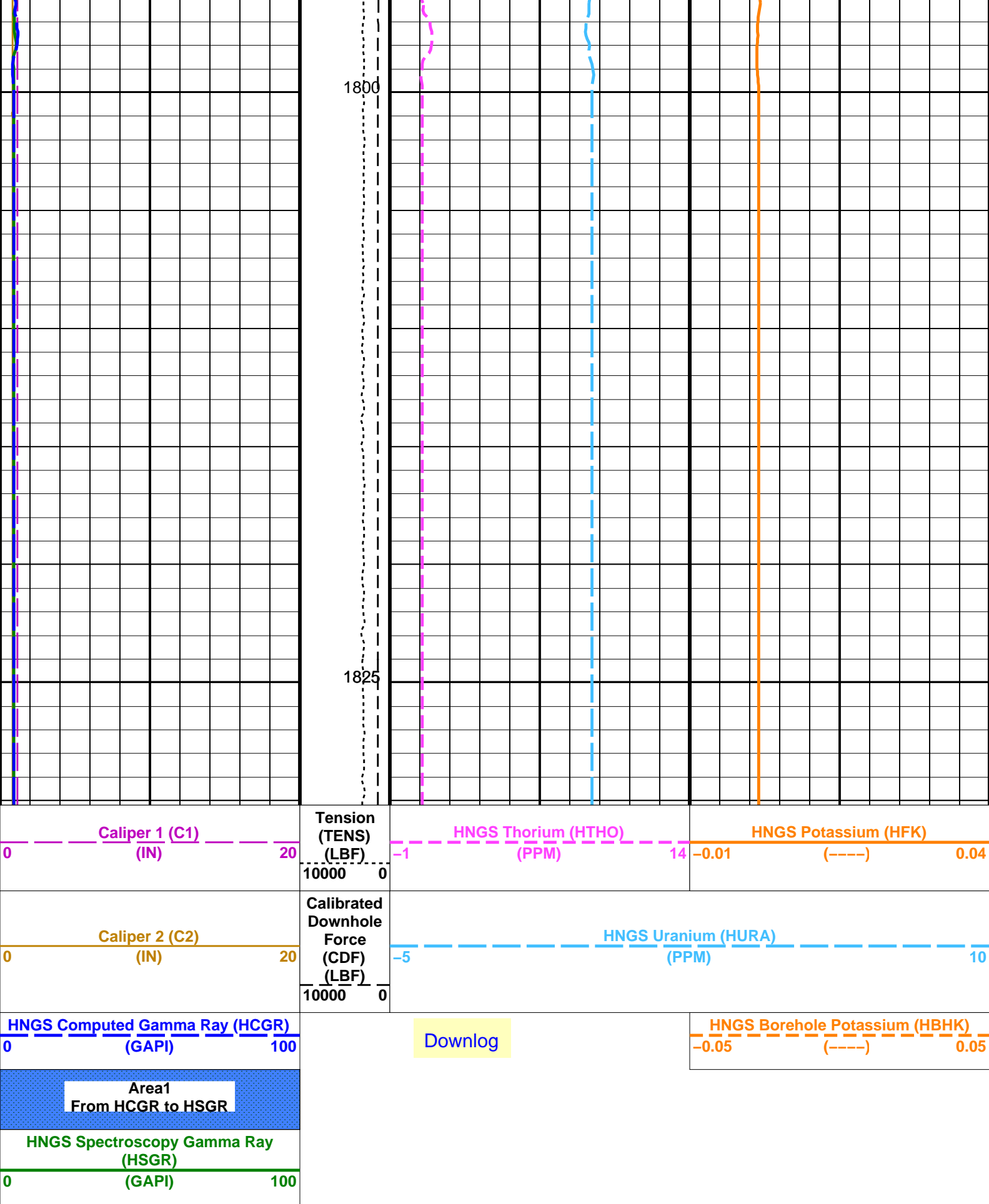












Parameters		
DLIS Name	Description	Value



DEIS 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	-0.0025177	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	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	0.929551	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.990489	
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: 26-Aug-2020 04:59

### OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_072LUP	PRODUCER	20-Aug-2020 03:26	1830.2 M	1467.6 M
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### Output DLIS Files

DEFAULT	FMS_DSI_NGS_112PUP	FN:112	PRODUCER	26-Aug-2020 04:59
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Company: International Ocean Discovery Program    Well: Expedition 384, Site U1555G

### Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_072LUP	PRODUCER	20-Aug-2020 03:26	1830.2 M	1467.6 M
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### Output DLIS Files

DEFAULT	FMS_DSI_NGS_110PUP	FN:110	PRODUCER	25-Aug-2020 08:28	1830.2 M	1467.6 M
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### OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### PIP SUMMARY

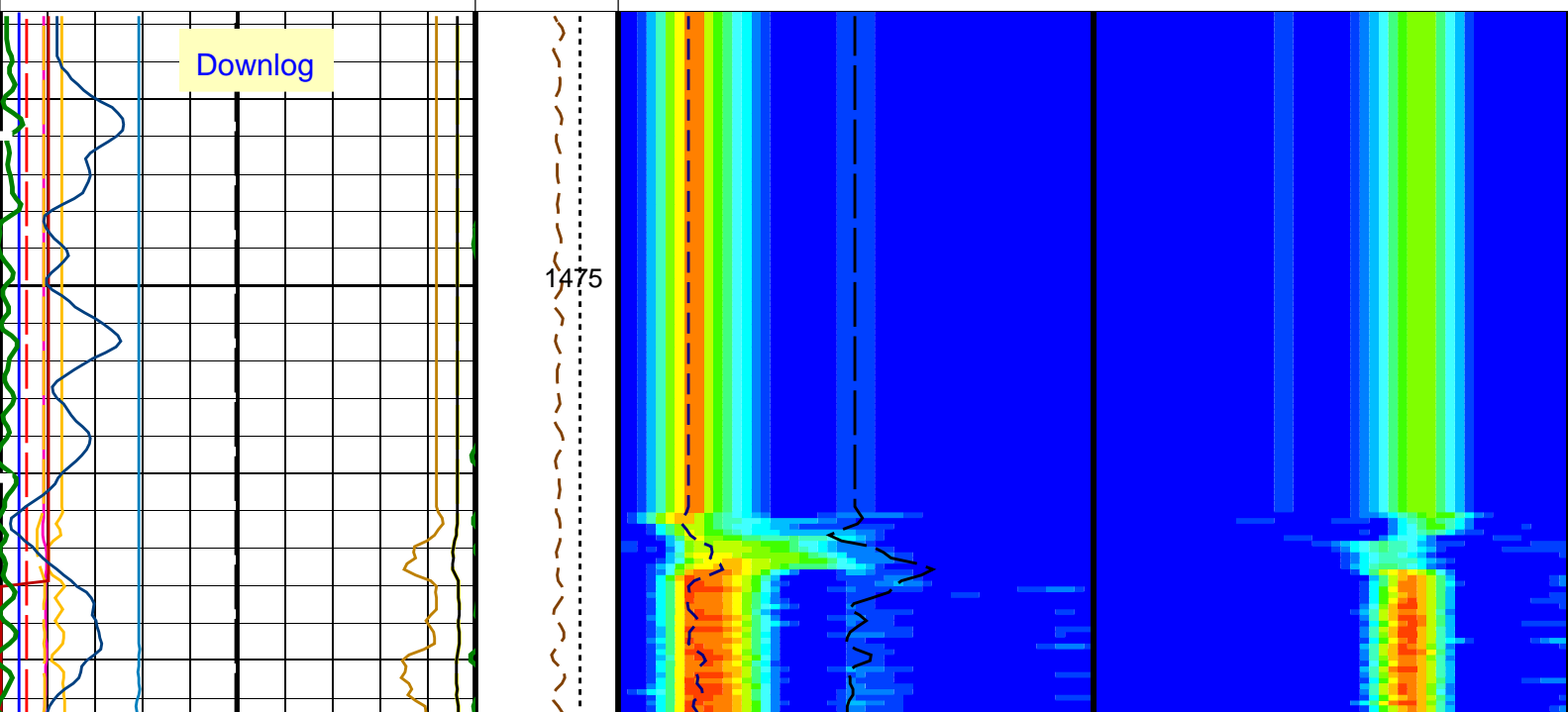
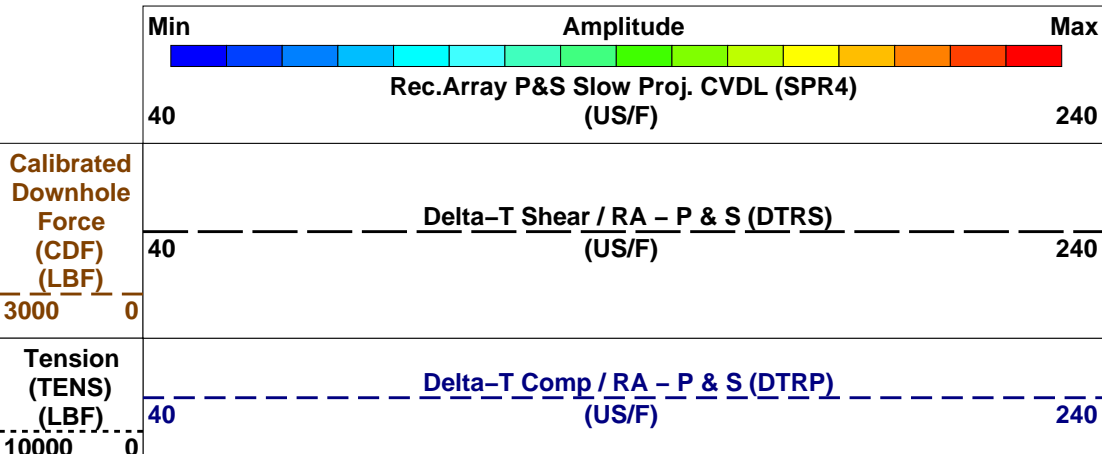
 Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	25

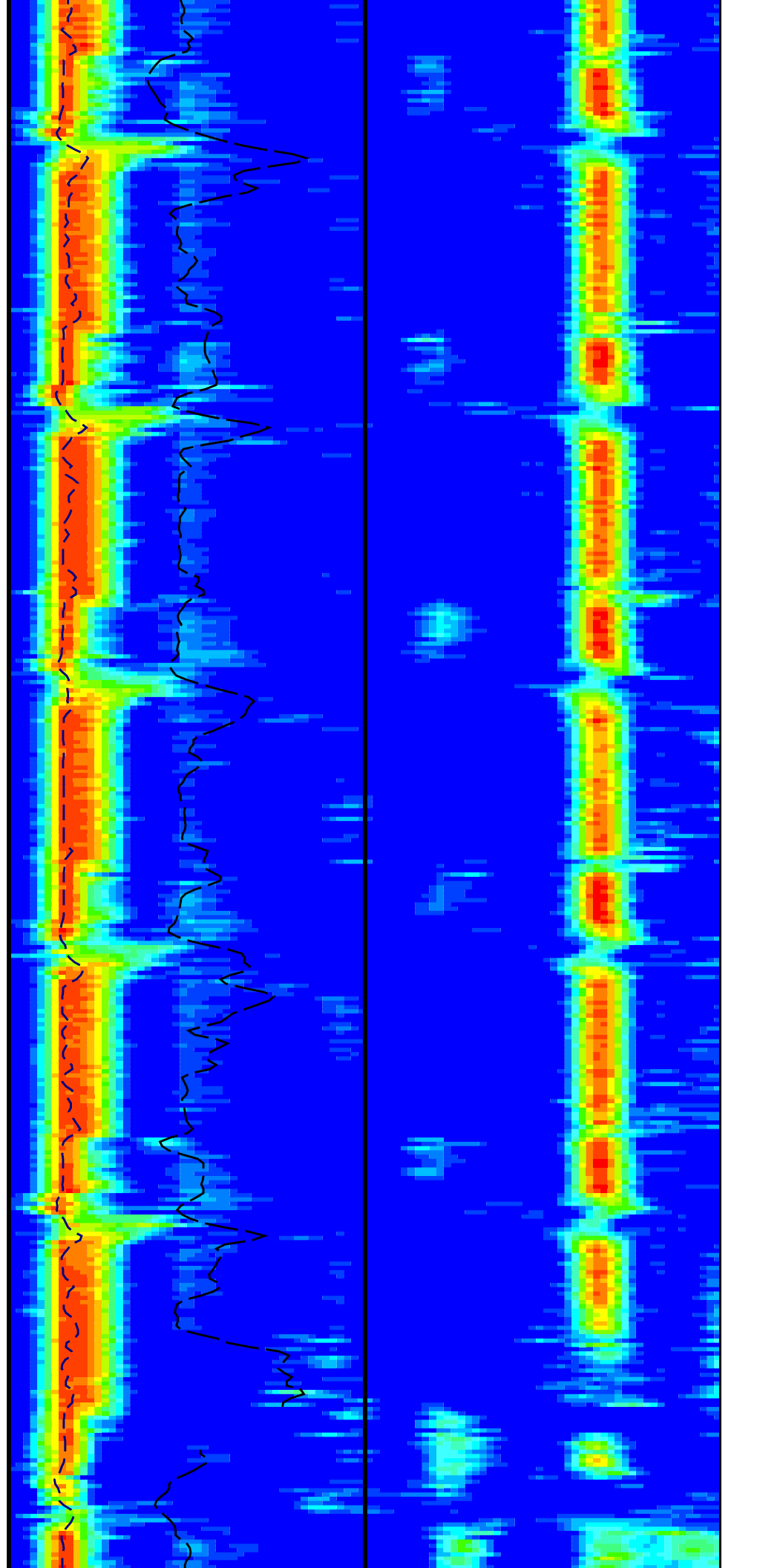
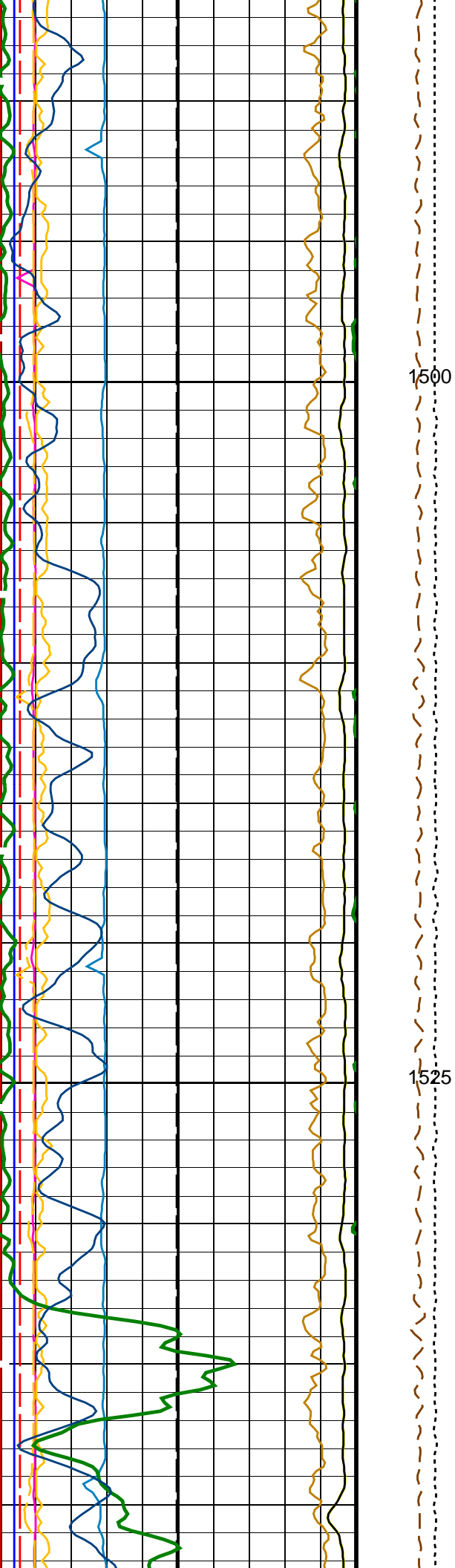


Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)		
0	(-----)	10
Peak Coherence / RA – P & S Shear (CHRS)		
-1	(-----)	9
Peak Coherence / RA – P & S Comp (CHRP)		
0	(-----)	10
Peak Coherence / TA – Upper Dipole (CHT2)		
-2	(-----)	8
Peak Coherence / RA – Upper Dipole (CHR2)		
0	(-----)	10
Poisson's Ratio (PR)		
0	(-----)	0.5
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Sonde Deviation (SDEVM)		
0	(DEG)	10
Poisson's Ratio (PR)		
0	(-----)	0.5

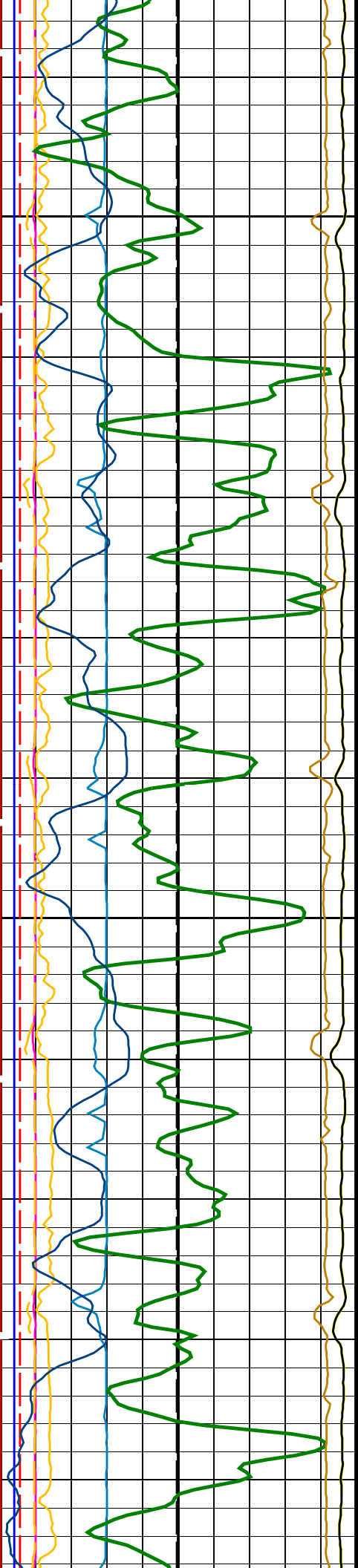
0	Caliper 1 (C1) (IN)	20
0	Caliper 2 (C2) (IN)	20
0	Bit Size (BS) (IN)	20





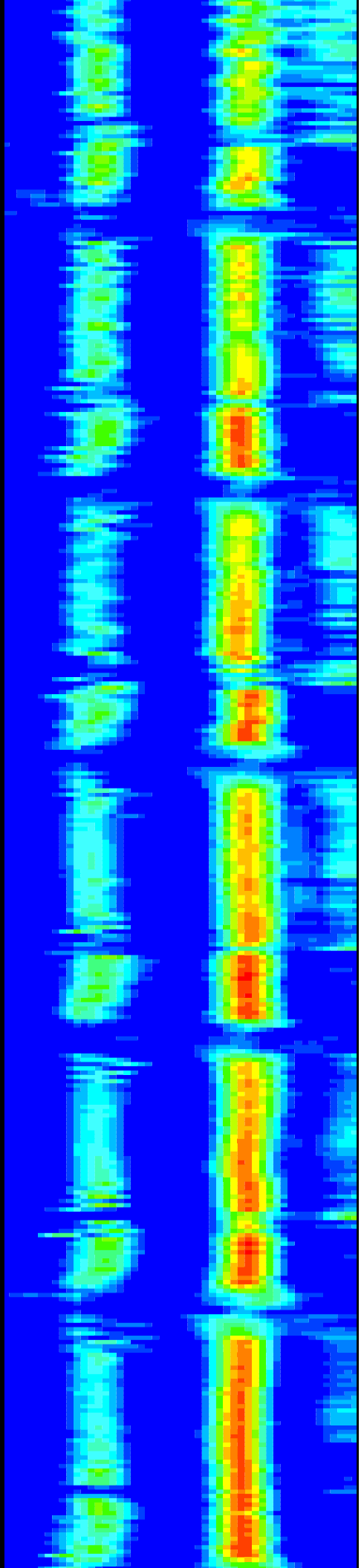
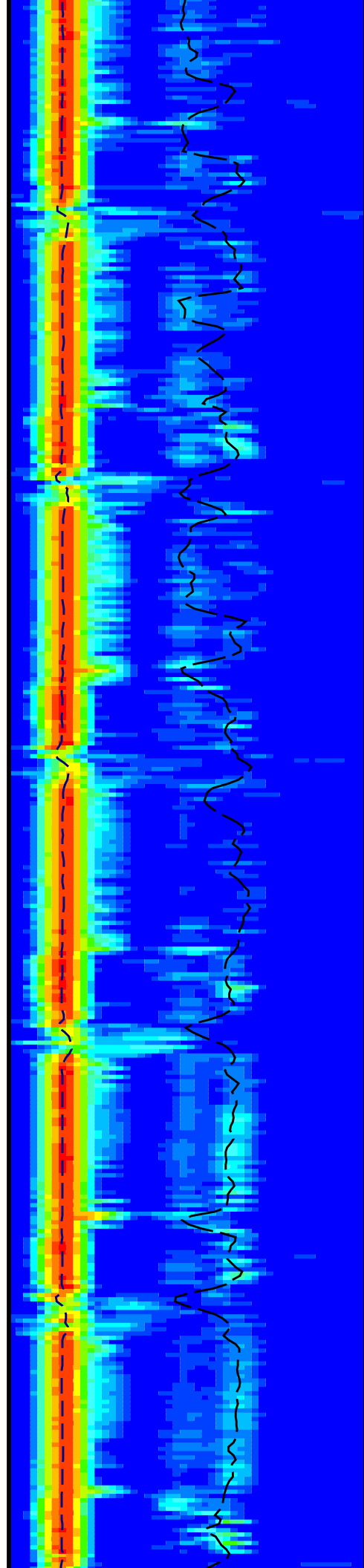




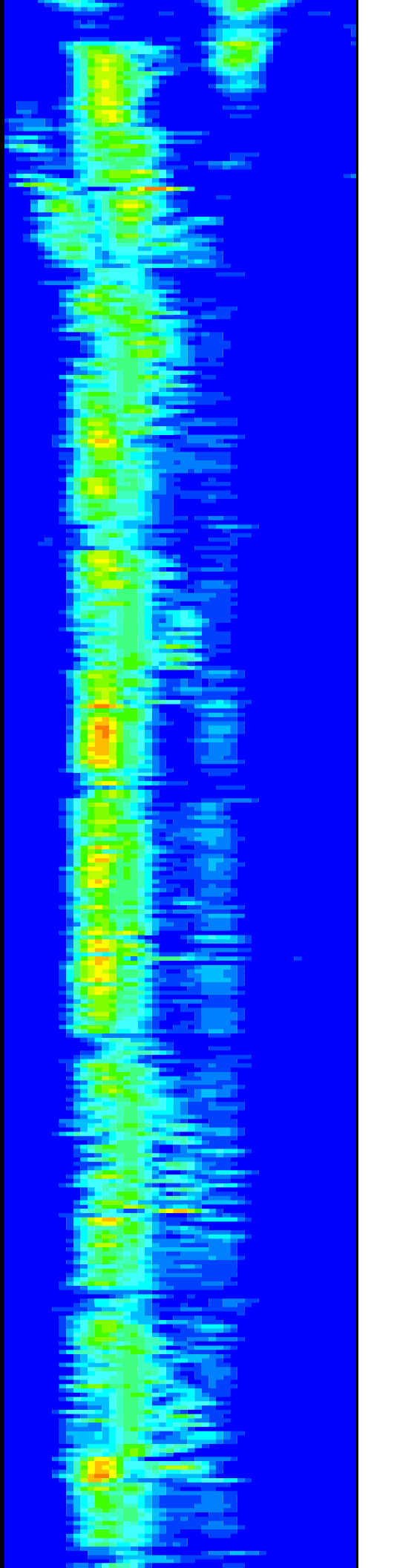
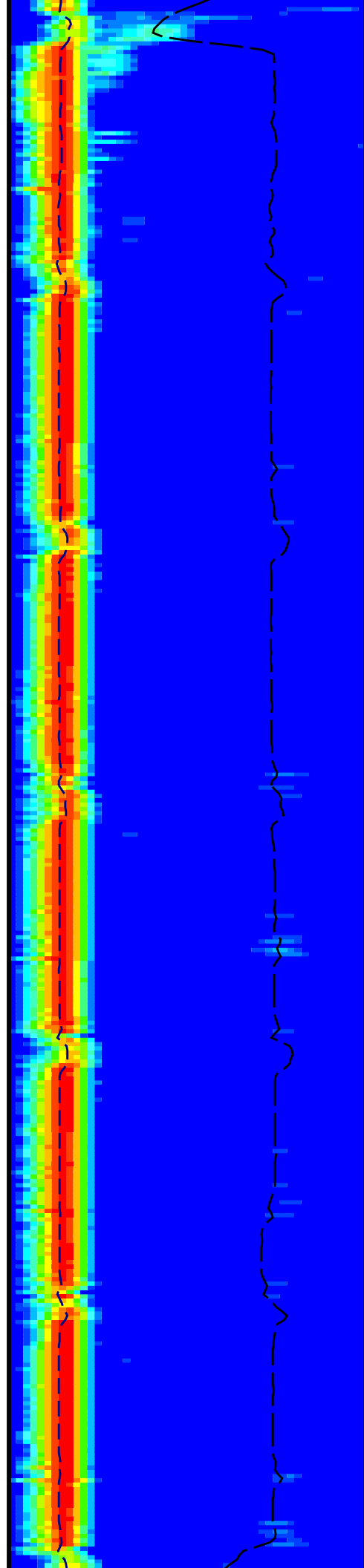
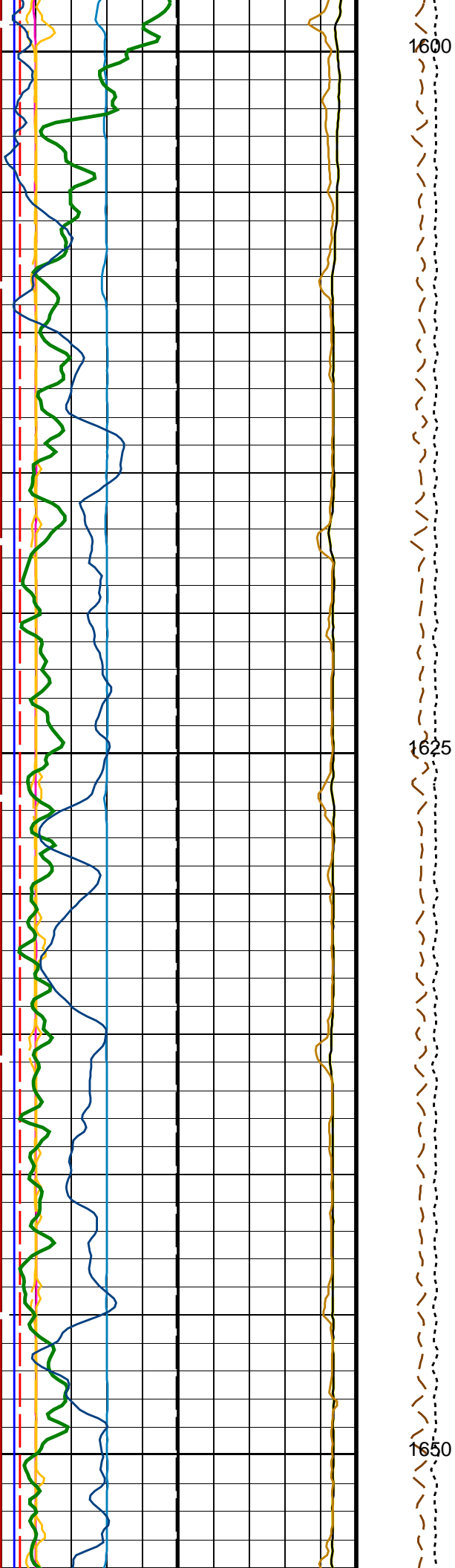


1550

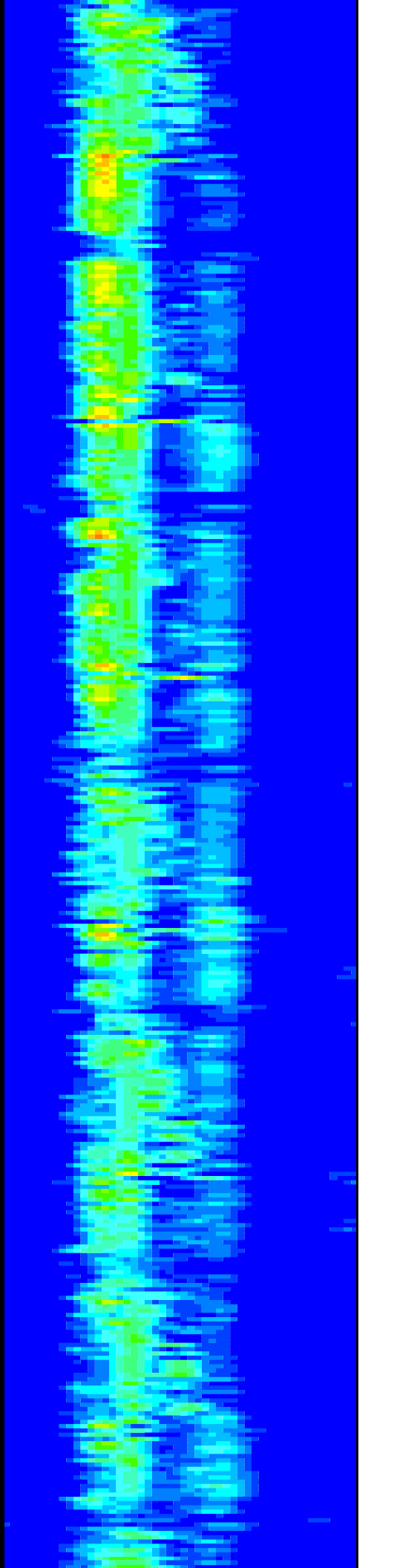
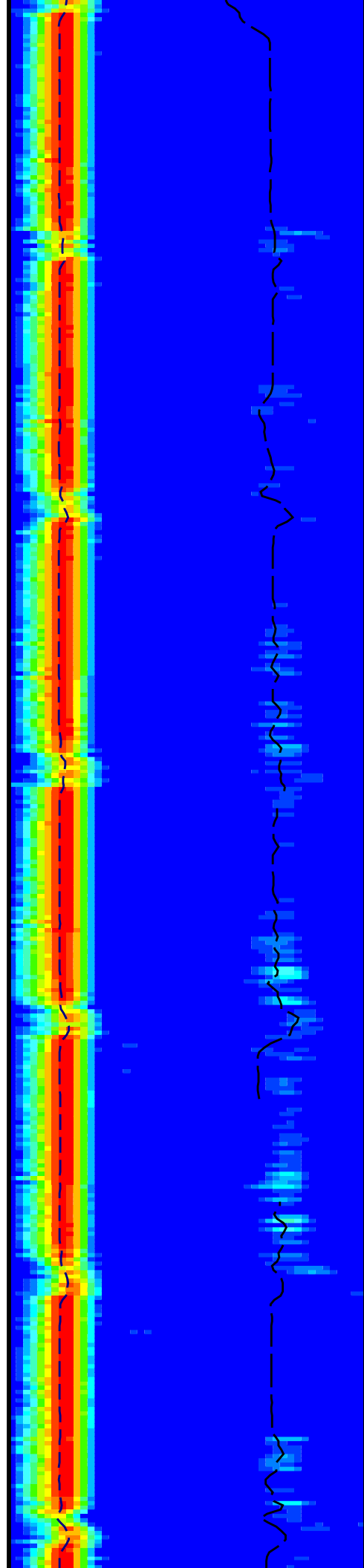
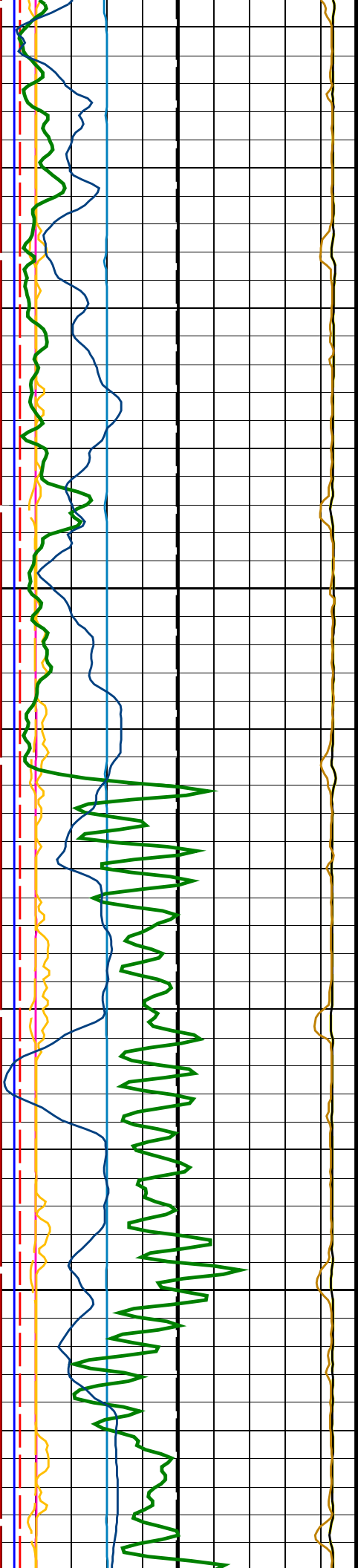
1575



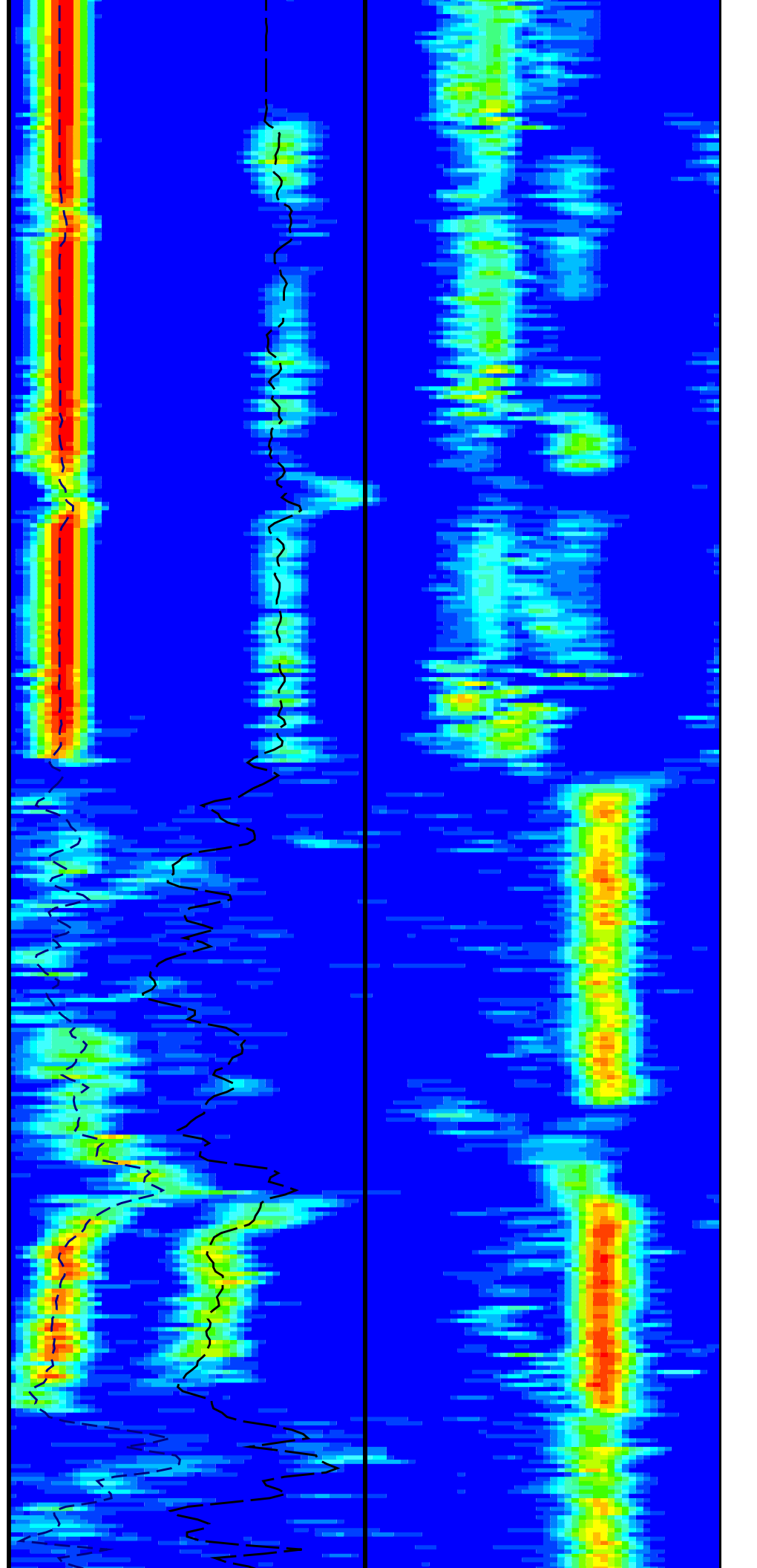
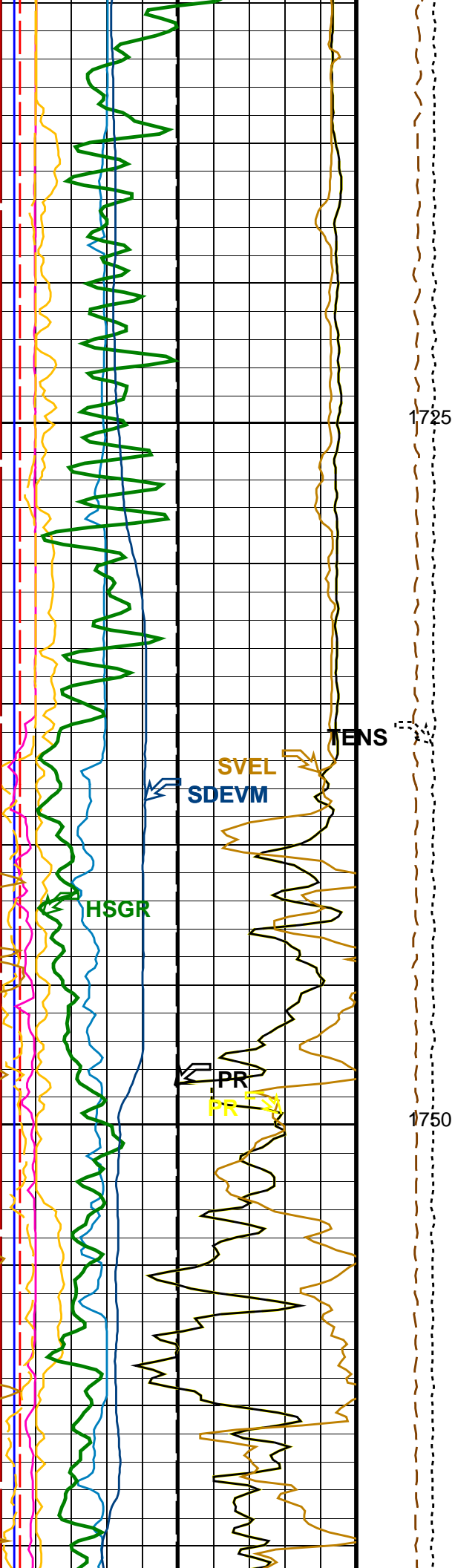




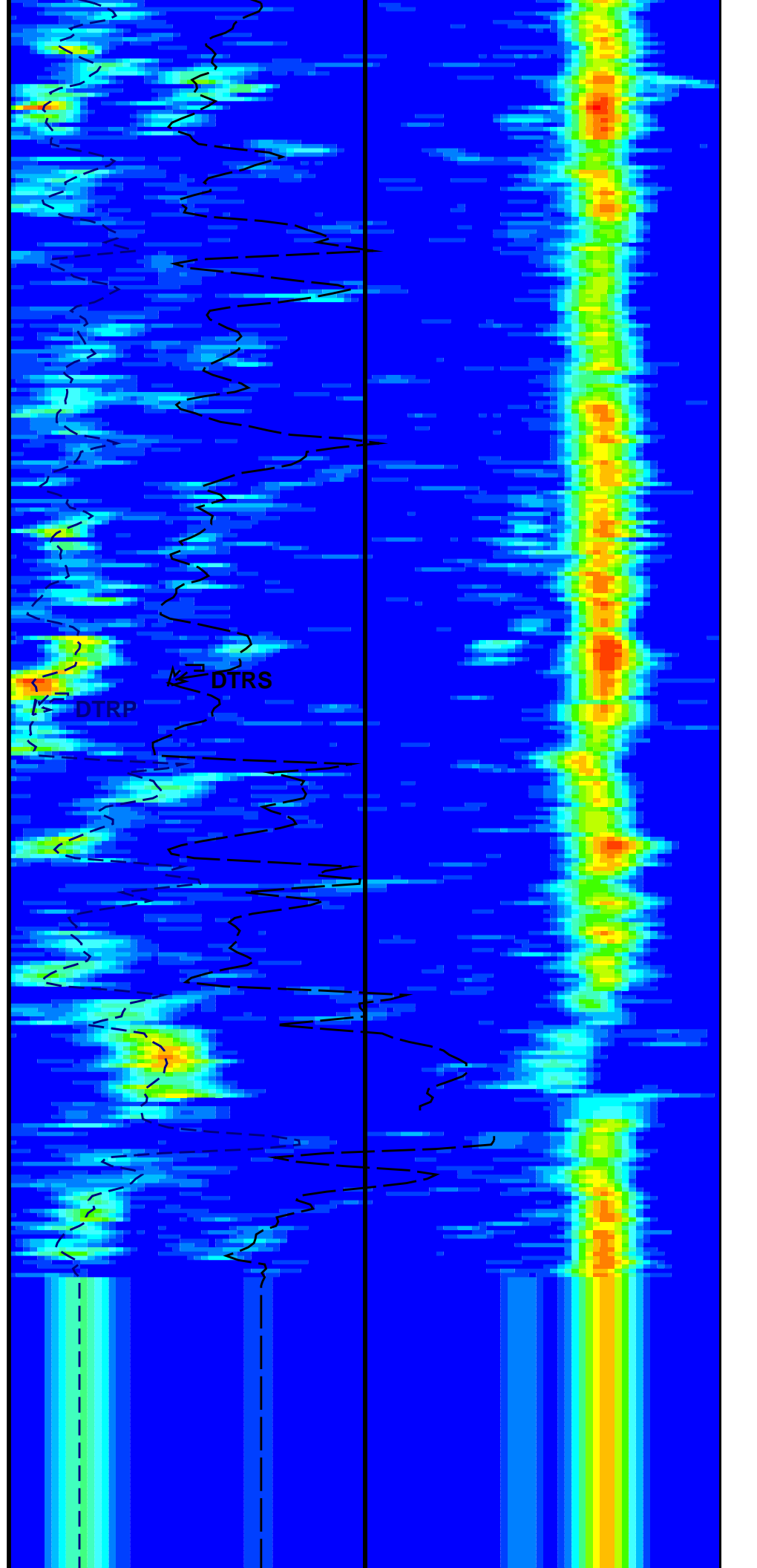
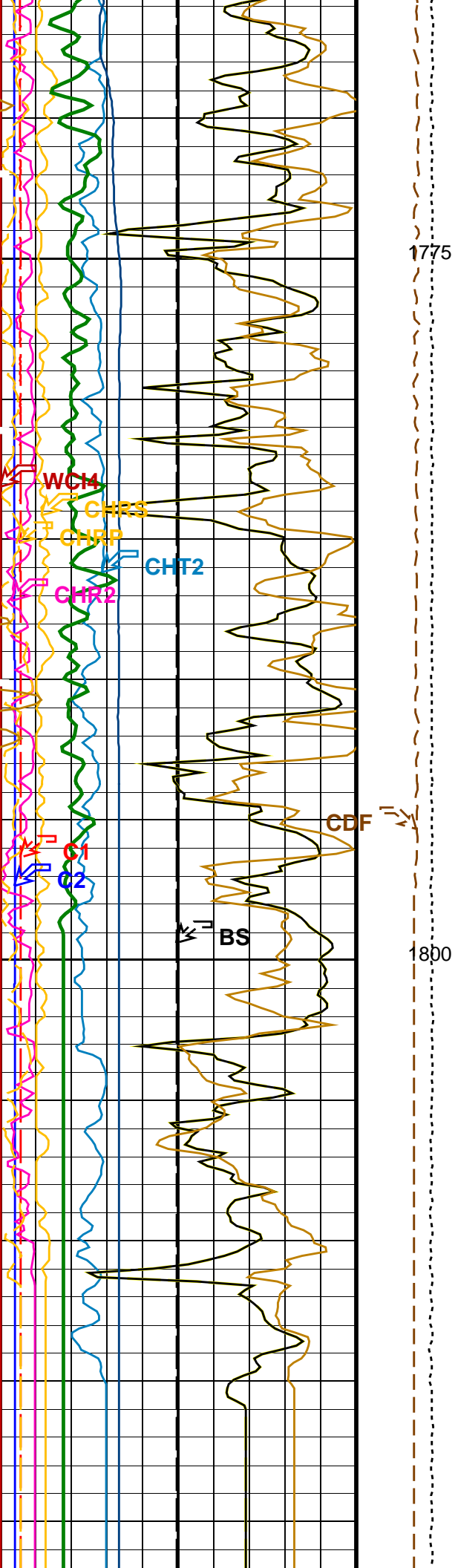




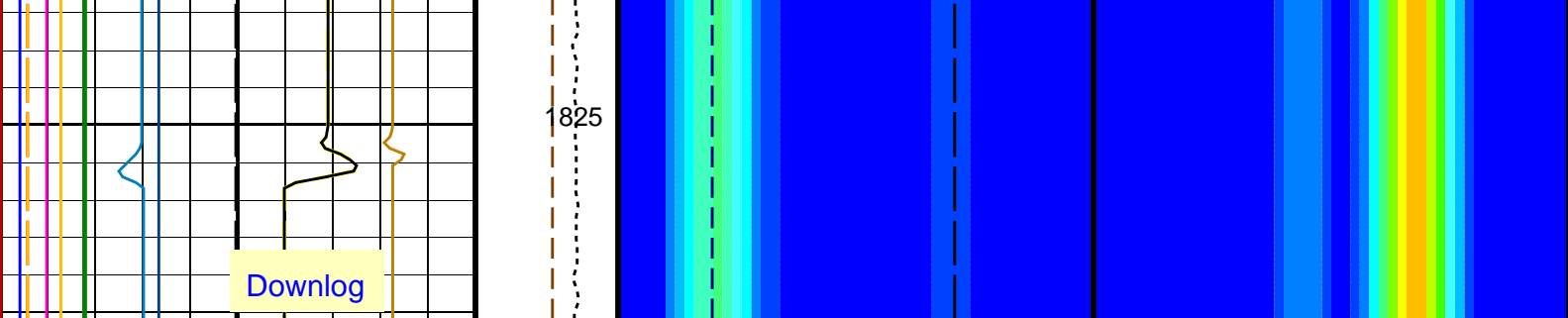












<div>Bit Size (BS) (IN)</div> <div>020</div>		<div>Tension (TENS) (LBF)</div> <div>100000</div>	<div>Delta-T Comp / RA - P &amp; S (DTRP) (US/F)</div> <div>40240</div>		
<div>Caliper 2 (C2) (IN)</div> <div>020</div>			<div>Delta-T Shear / RA - P &amp; S (DTRS) (US/F)</div> <div>40240</div>		
<div>Caliper 1 (C1) (IN)</div> <div>020</div>		<div>Calibrated Downhole Force (CDF) (LBF)</div> <div>30000</div>	<div>MinAmplitudeMax</div> <div>Rec.Array P&amp;S Slow Proj. CVDL (SPR4) (US/F)</div> <div>40240</div>		
<div>Poisson's Ratio (PR) (-----)</div> <div>00.5</div>					
<div>Sonde Deviation (SDEVM) (DEG)</div> <div>010</div>					
<div>Sonic Velocity (SVEL) (M/S)</div> <div>10006000</div>					
<div>Poisson's Ratio (PR) (-----)</div> <div>00.5</div>					
<div>Peak Coherence / RA - Upper Dipole (CHR2) (-----)</div> <div>010</div>					
<div>Peak Coherence / TA - Upper Dipole (CHT2) (-----)</div> <div>-28</div>					
<div>Peak Coherence / RA - P &amp; S Comp (CHRP) (-----)</div> <div>010</div>					
<div>Peak Coherence / RA - P &amp; S Shear (CHRS) (-----)</div> <div>-19</div>					
<div>Waveform Data Copy Indicator 4 - Monopole P&amp;S (WCI4) (-----)</div> <div>010</div>					
<div>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</div> <div>025</div>					

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner - B (Slim)		
AEMG	Acoustic Emission Filtered Union Mode	MOVING AVERAGE



AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	-14.3039	DEG
DSST-B: Dipole Shear Imager - B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function - Monopole P&S	50	
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source - Dipole Shear	USE	
DSHL	Label Slowness Lower Limit - Dipole Shear	40	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	440	US/F
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	189	US/F
DTSS	Shear Delta-T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio - Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio - Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM4	STC Filter - Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW2	STC Source Waveform - Upper Dipole	WF_SAM2	
SSW4	STC Source Waveform - Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit - Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	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
TWI2	STC Integration Time Window - Upper Dipole	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
HNCS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNCS Detector 1 Barite Constant	1	
BAR2	HNCS Detector 2 Barite Constant	1	
BHK	HNCS 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	HNCS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNCS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNCS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNCS Borehole Potassium Running Average	-0.0371136	
HALF	HNCS Alpha Filter Length	60	IN
HCRB	HNCS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	



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	0.98426	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.10509	
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: DSST\_P\_S\_Only

Vertical Scale: 1:200

Graphics File Created: 25-Aug-2020 08:28

OP System Version: 19C0-187					
MEST-B	19C0-187	DTA-A_8453	19C0-187		
DSST-B	19C0-187	HNGC-B_304	19C0-187		
HNGS-BA	19C0-187	DTC-H	19C0-187		

Input DLIS Files					
DEFAULT	Flip_FMS_DSI_NGS_072LUP	PRODUCER	20-Aug-2020 03:26	1830.2 M	1467.6 M
Output DLIS Files					
DEFAULT	FMS_DSI_NGS_110PUP	FN:110	PRODUCER	25-Aug-2020 08:28	

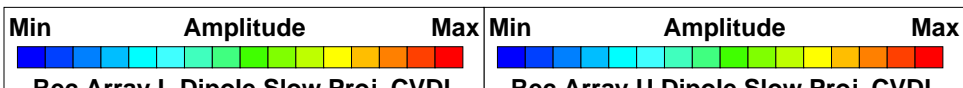
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DEFAULT	Flip_FMS_DSI_NGS_072LUP	PRODUCER	20-Aug-2020 03:26	1830.2 M	1467.6 M
Output DLIS Files					
DEFAULT	FMS_DSI_NGS_110PUP	FN:110	PRODUCER	25-Aug-2020 08:28	1830.2 M

OP System Version: 19C0-187					
MEST-B	19C0-187	DTA-A_8453	19C0-187		
DSST-B	19C0-187	HNGC-B_304	19C0-187		
HNGS-BA	19C0-187	DTC-H	19C0-187		

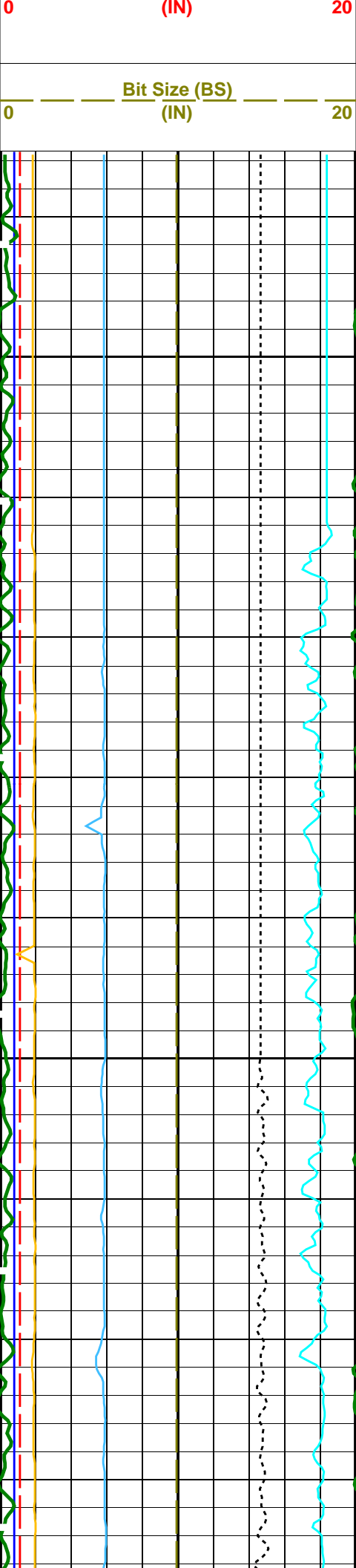
PIP SUMMARY					
Time Mark Every 60 S					

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	25
Peak Coherence / TA - Upper Dipole (CHT2)		
-2	(-----)	8
Peak Coherence / RA - Upper Dipole (CHR2)		
0	(-----)	10
Tension (TENS)		
10000	(LBF)	0
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Caliper 2 (C2)		
0	(IN)	20
Caliper 1 (C1)		

Downlog

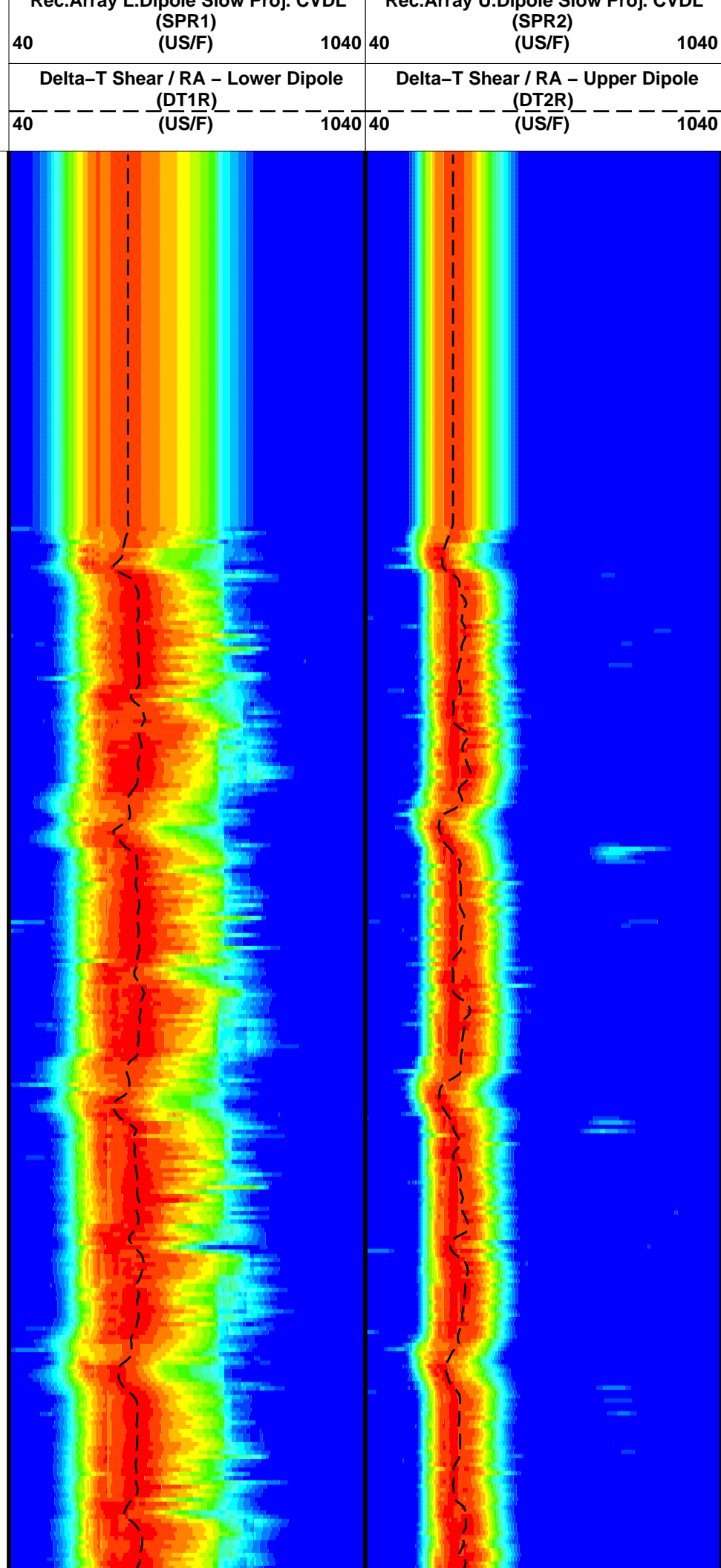




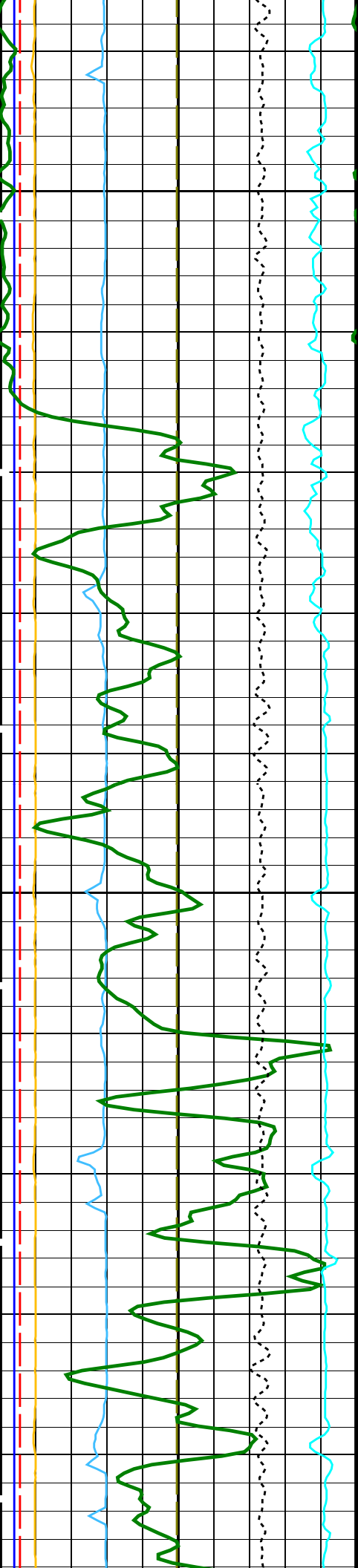


1475

1500

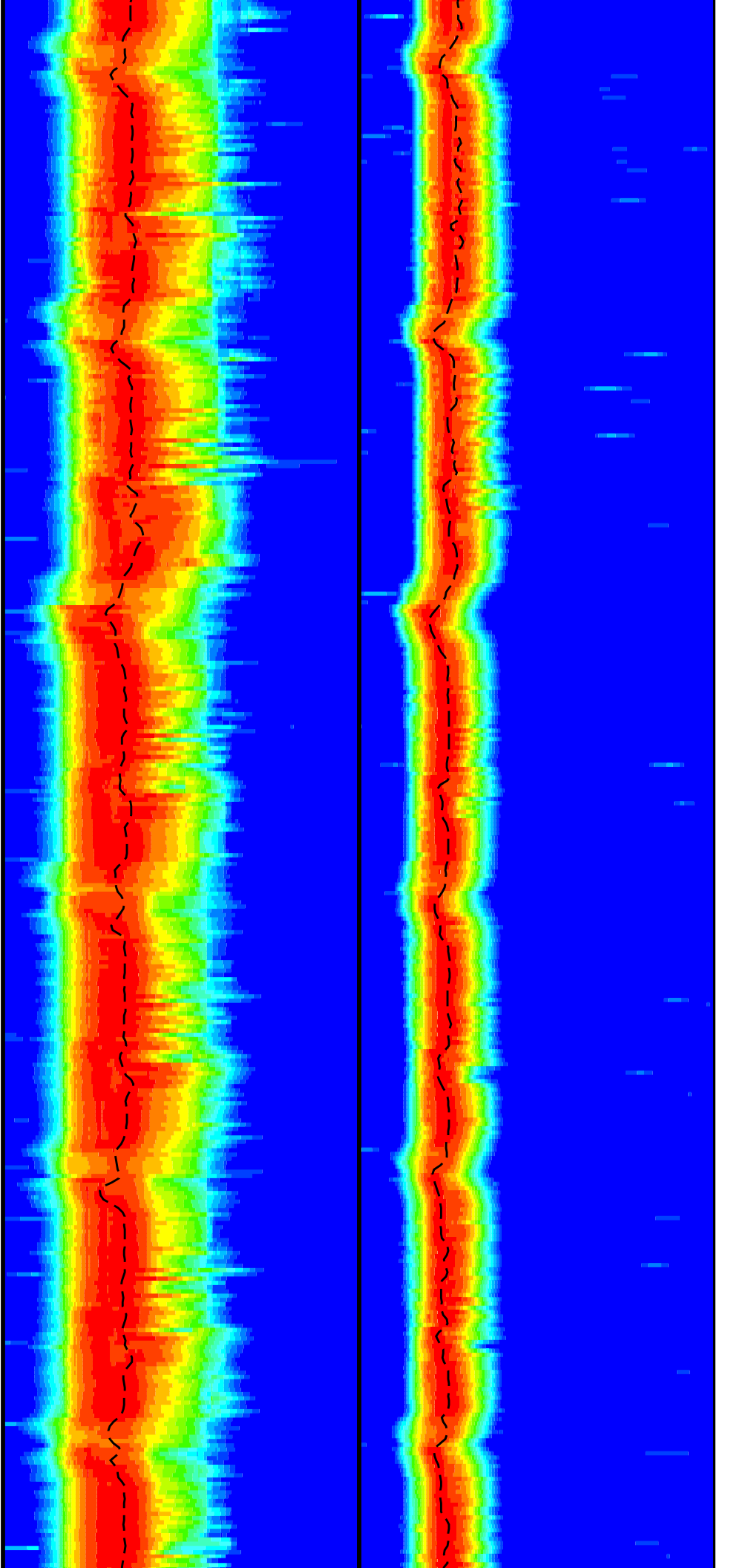




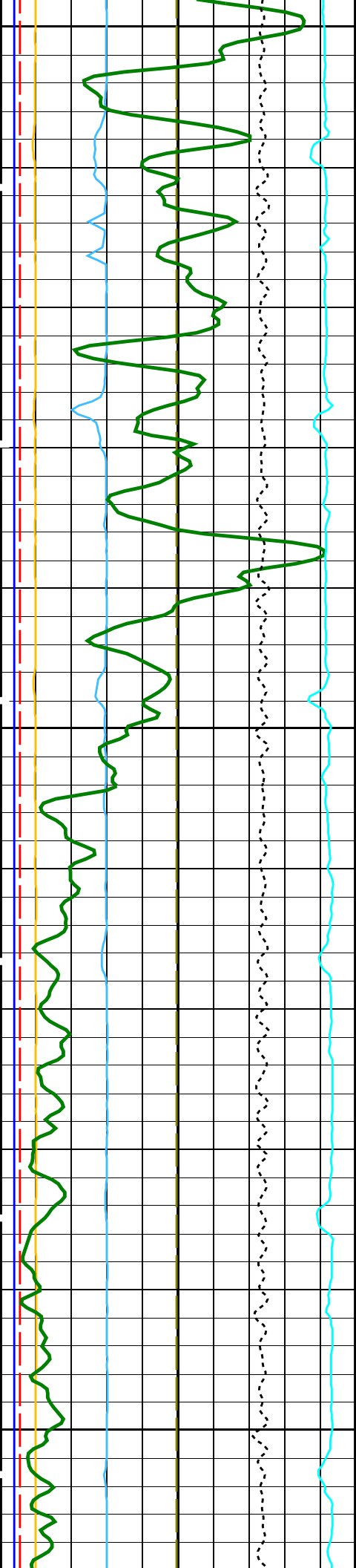


1525

1550



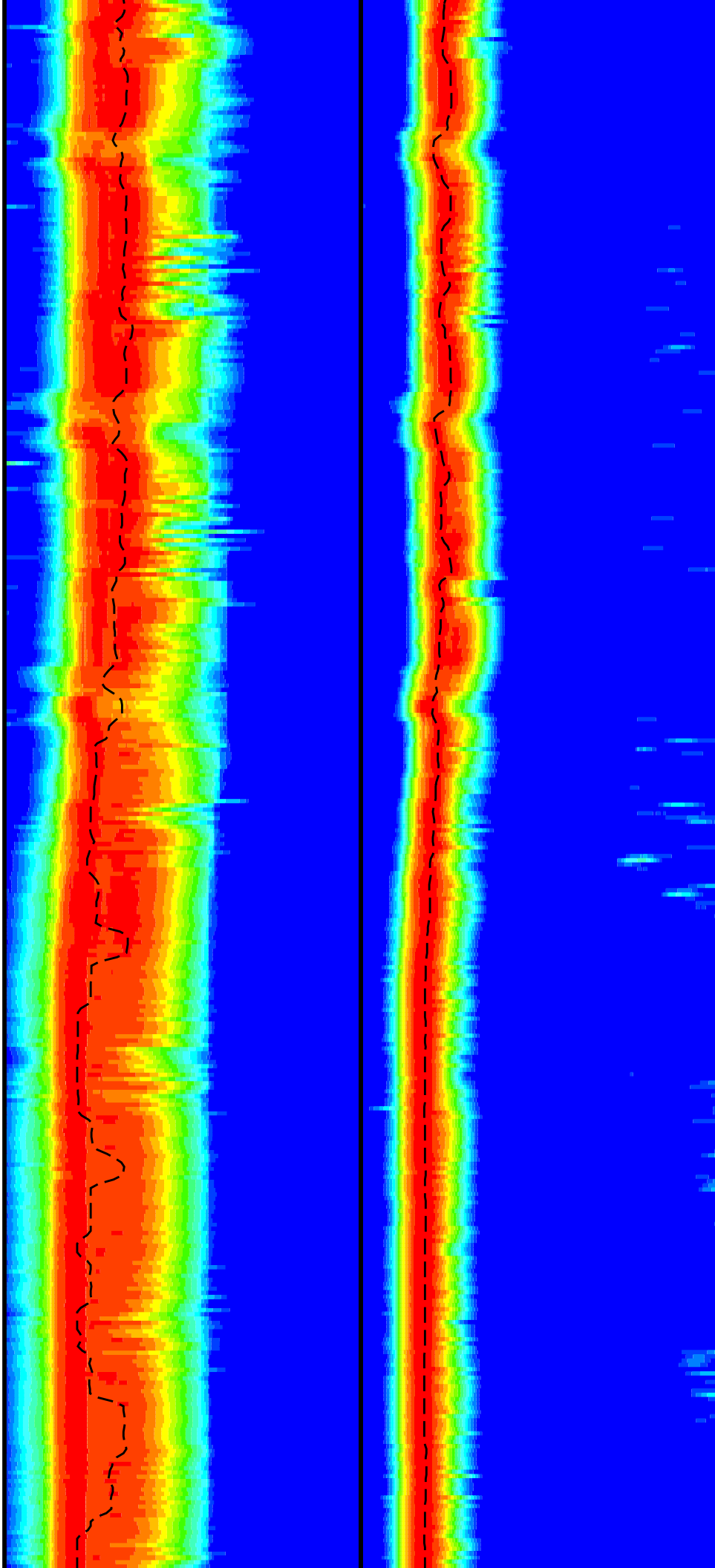




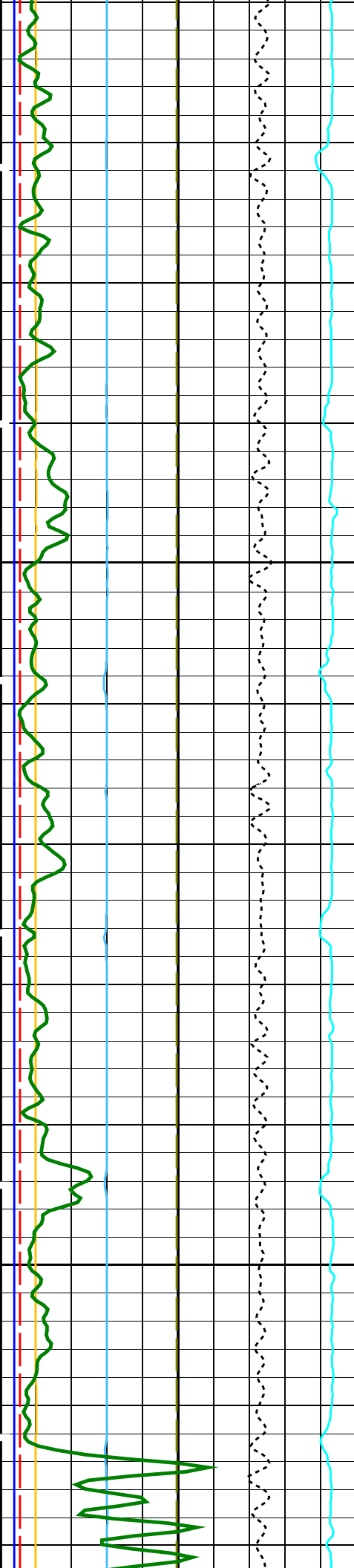
1575

1600

1625

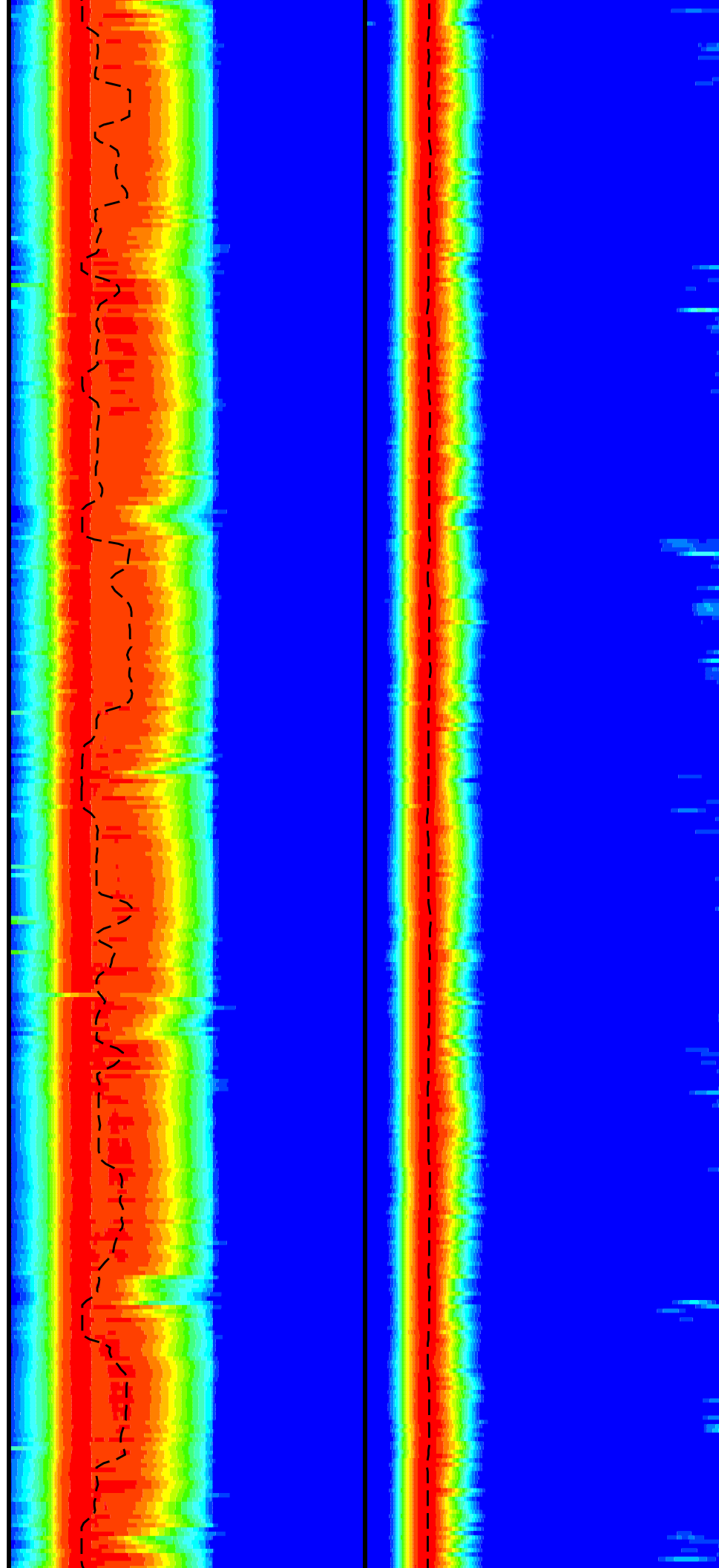




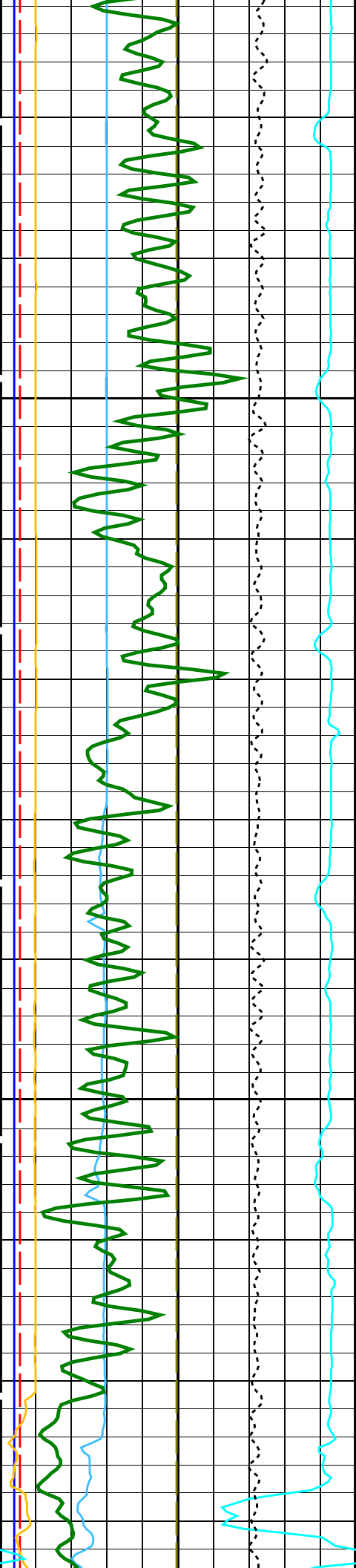


1650

1675

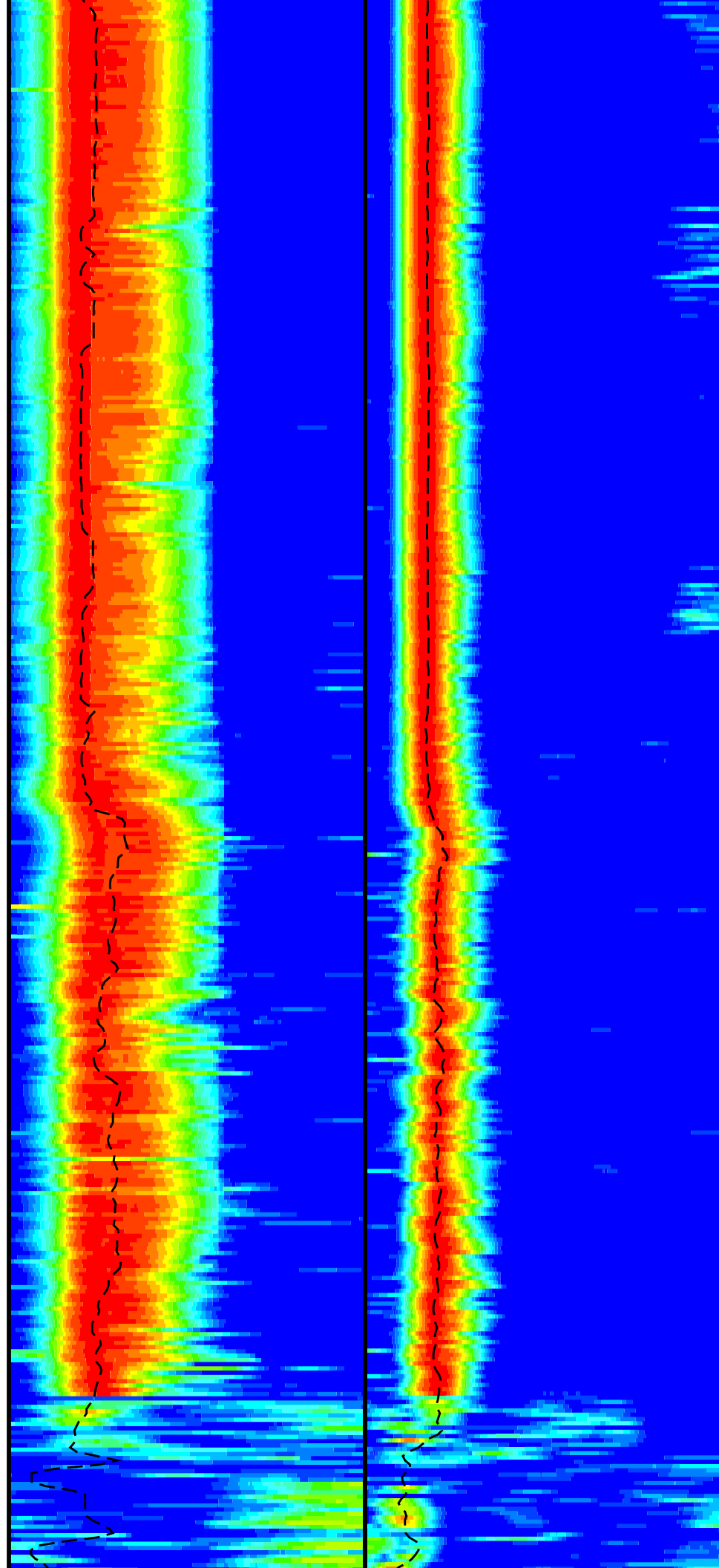




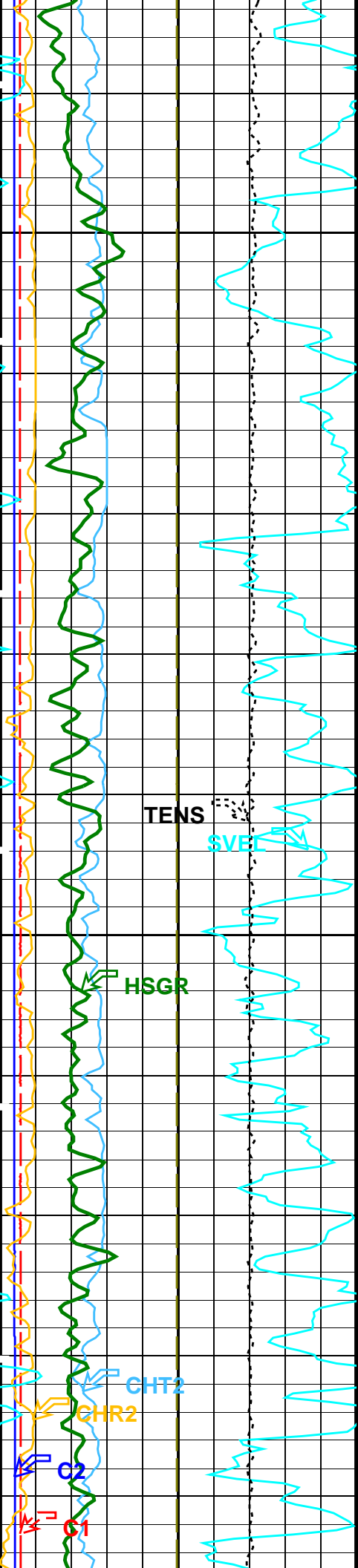


1700

1725

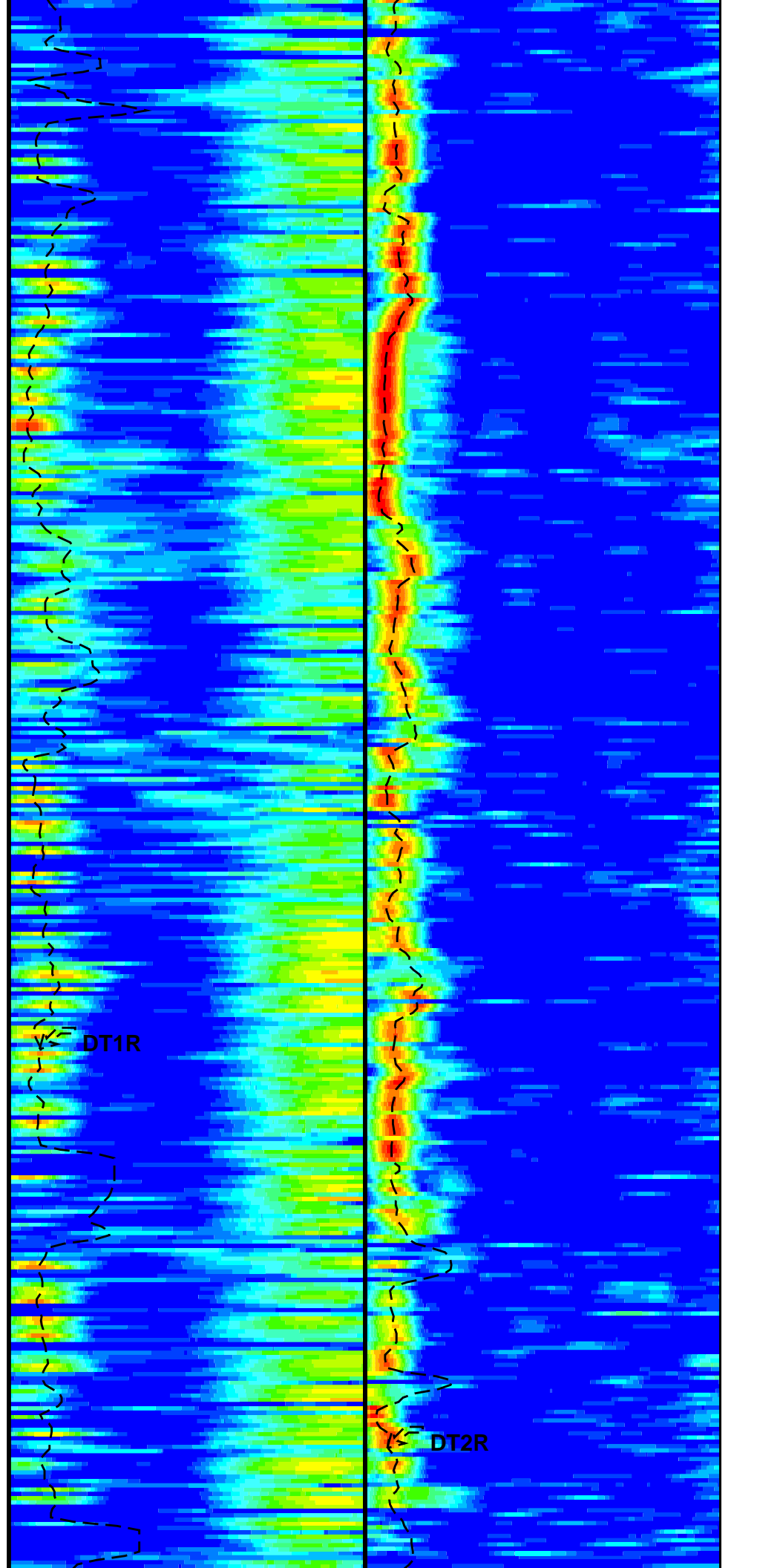




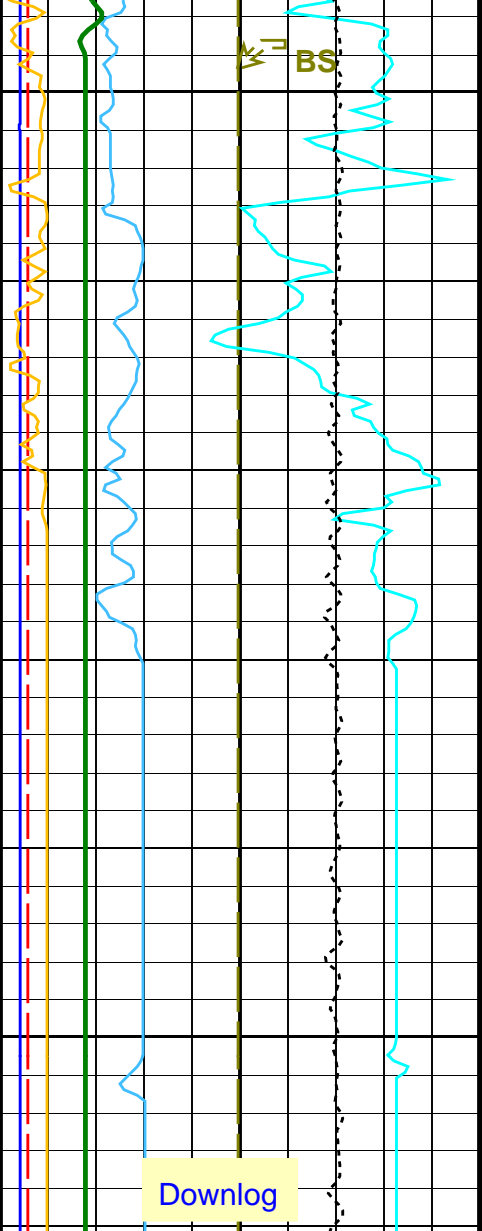


1750

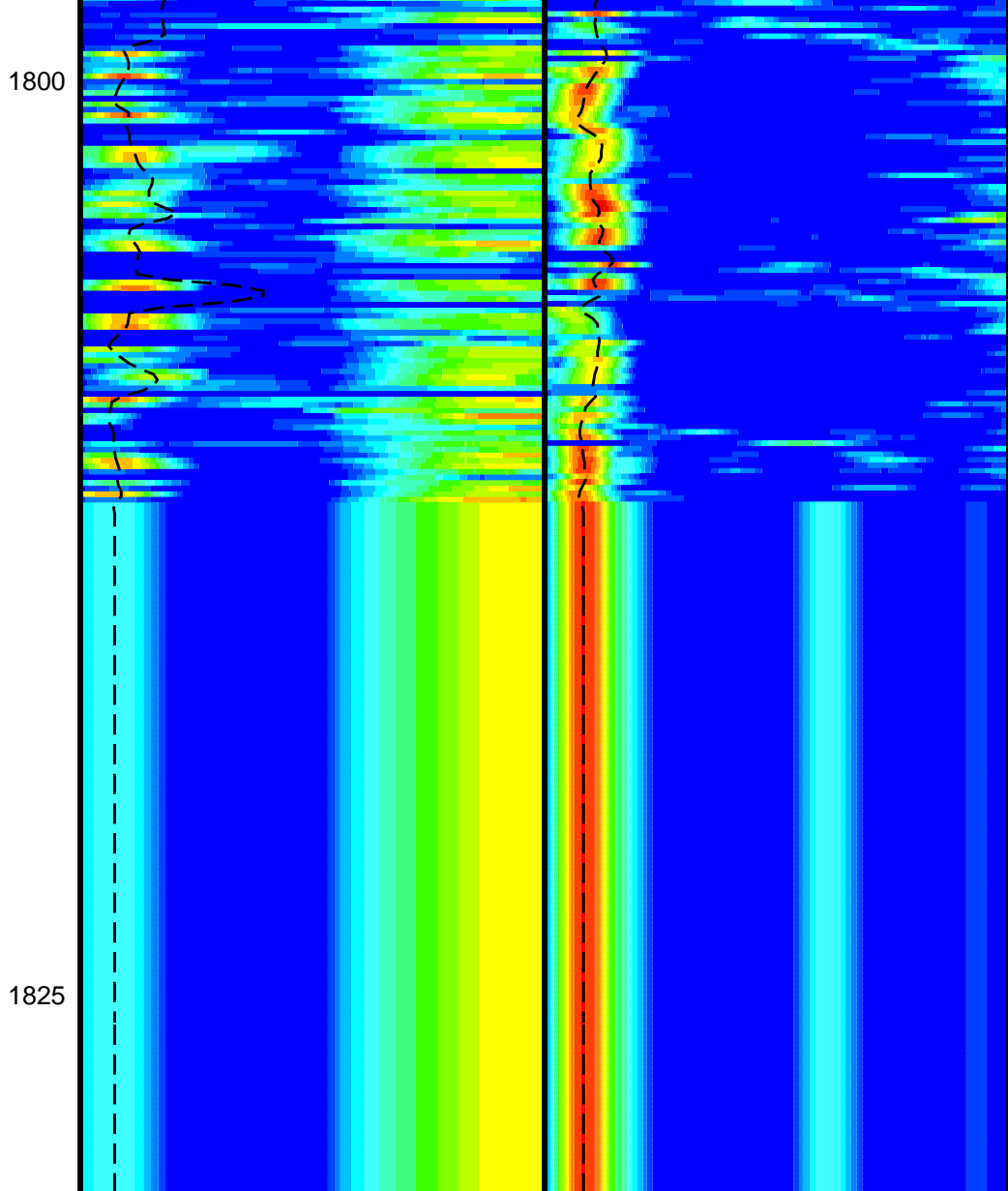
1775







Bit Size (BS) (IN)		
0		20
Caliper 1 (C1) (IN)		
0		20
Caliper 2 (C2) (IN)		
0		20
Sonic Velocity (SVEL) (M/S)		
1000		6000
Tension (TENS) (LBF)		
10000		0
Peak Coherence / RA - Upper Dipole (CHR2)		
0	(----	10
Peak Coherence / TA - Upper Dipole (CHT2)		
-2	(----	8
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	25



Delta-T Shear / RA - Lower Dipole (DT1R) (US/F)		
40		1040
Delta-T Shear / RA - Upper Dipole (DT2R) (US/F)		
40		1040
Min Amplitude Max		
Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F)		
40		1040
Min Amplitude Max		
Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)		
40		1040



## Parameters

DLIS Name	Description	Value
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## DSST-B: Dipole Shear Imager - B

BHS	Borehole Status	OPEN
DDE1	Digitizing Delay 1	0 US
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	40 US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	440 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSI2	Digitizer Sample Interval 2	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
DWC2	Digitizer Word Count 2	512
DWCX	Digitizer Word Count X	512
GCSE	Generalized Caliper Selection	BS
LTXG	Lower Dipole Transmitter Geometry	156 IN
NWI1	Number Waveform Items 1	8
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
SAM1	DSST Sonic Acquisition Mode 1 - Lower Dipole Mode	LFD_EVEN
SAM2	DSST Sonic Acquisition Mode 2 - Upper Dipole Mode	ODD
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF

SAS1	STC Sonic Array Status - Lower Dipole	255
SAS2	STC Sonic Array Status - Upper Dipole	255
SBO1	STC Search Band Offset - Lower Dipole	3000 US
SBO2	STC Search Band Offset - Upper Dipole	3000 US
SBW1	STC Search Bandwidth - Lower Dipole	8000 US
SBW2	STC Search Bandwidth - Upper Dipole	8000 US
SFC1	STC Formation Character - Lower Dipole	SELECTABLE
SFC2	STC Formation Character - Upper Dipole	SELECTABLE
SFM1	STC Filter - Lower Dipole	B.3-1.5K
SFM2	STC Filter - Upper Dipole	B1-2K
SLL1	STC Slowness Lower Limit - Lower Dipole	40 US/F
SLL2	STC Slowness Lower Limit - Upper Dipole	40 US/F
SST1	STC Slowness Step - Lower Dipole	4 US/F
SST2	STC Slowness Step - Upper Dipole	4 US/F
SSW1	STC Source Waveform - Lower Dipole	WF_SAM1
SSW2	STC Source Waveform - Upper Dipole	WF_SAM2
SUL1	STC Slowness Upper Limit - Lower Dipole	1040 US/F
SUL2	STC Slowness Upper Limit - Upper Dipole	1040 US/F
SWD1	STC Slowness Width - Lower Dipole	40 US/F
SWD2	STC Slowness Width - Upper Dipole	40 US/F
TBF1	STC Time for Baseline Fill - Lower Dipole	0 US
TBF2	STC Time for Baseline Fill - Upper Dipole	0 US
TLL1	STC Time Lower Limit - Lower Dipole	600 US
TLL2	STC Time Lower Limit - Upper Dipole	600 US
TST1	STC Time Step - Lower Dipole	200 US
TST2	STC Time Step - Upper Dipole	200 US
TUL1	STC Time Upper Limit - Lower Dipole	18960 US
TUL2	STC Time Upper Limit - Upper Dipole	18440 US
TWD1	STC Time Width - Lower Dipole	2000 US
TWD2	STC Time Width - Upper Dipole	2000 US
TWI1	STC Integration Time Window - Lower Dipole	1600 US
TWI2	STC Integration Time Window - Upper Dipole	1600 US
TWSX	Transmitter Waveform Select X	0
UTXG	Upper Dipole Transmitter Geometry	162 IN

## 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	Generalized Caliper Selection	NONE	
GCSE	HNGS Barite Constant Correction Flag	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	-0.0371136	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	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	0.98426	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.10509	
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: UpperLowerDipole\_40\_1040      Vertical Scale: 1:200      Graphics File Created: 25-Aug-2020 08:28

### OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### Input DLIS Files

DEFAULT	Flip_FMS_DSI_NGS_072LUP	PRODUCER	20-Aug-2020 03:26	1830.2 M	1467.6 M
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### Output DLIS Files

DEFAULT	FMS_DSI_NGS_110PUP	FN:110	PRODUCER	25-Aug-2020 08:28
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### Input DLIS Files

DEFAULT	FMS_DSI_NGS_073PUP	FN:96	PRODUCER	20-Aug-2020 03:53	1828.8 M	1783.4 M
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### Output DLIS Files

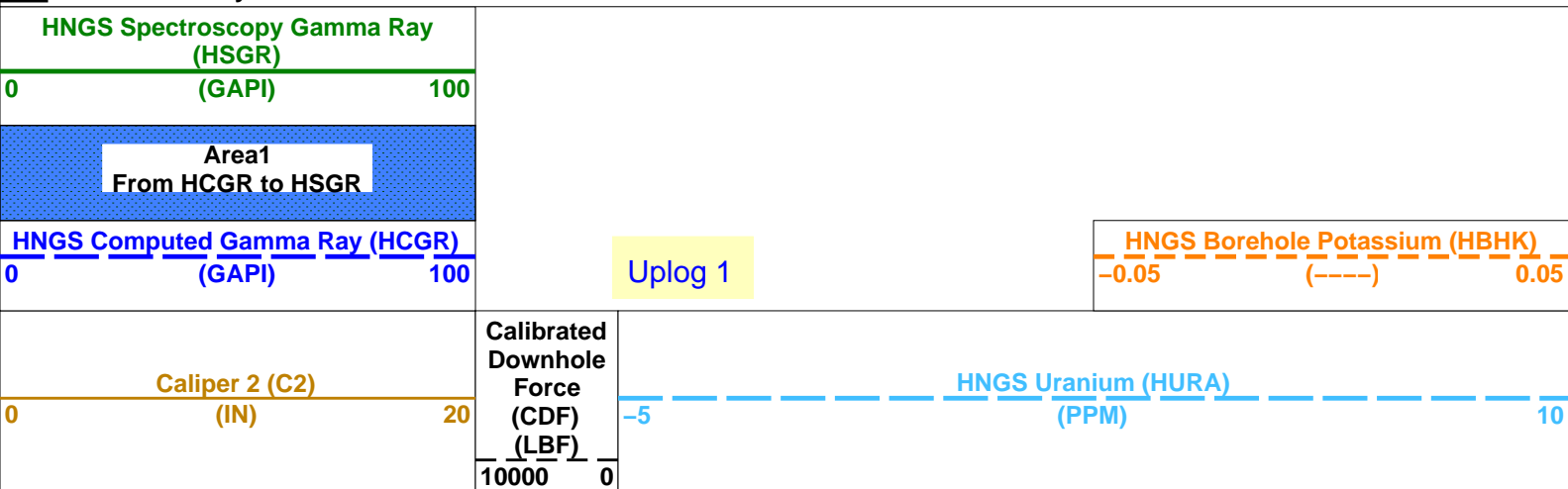
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### OP System Version: 19C0-187

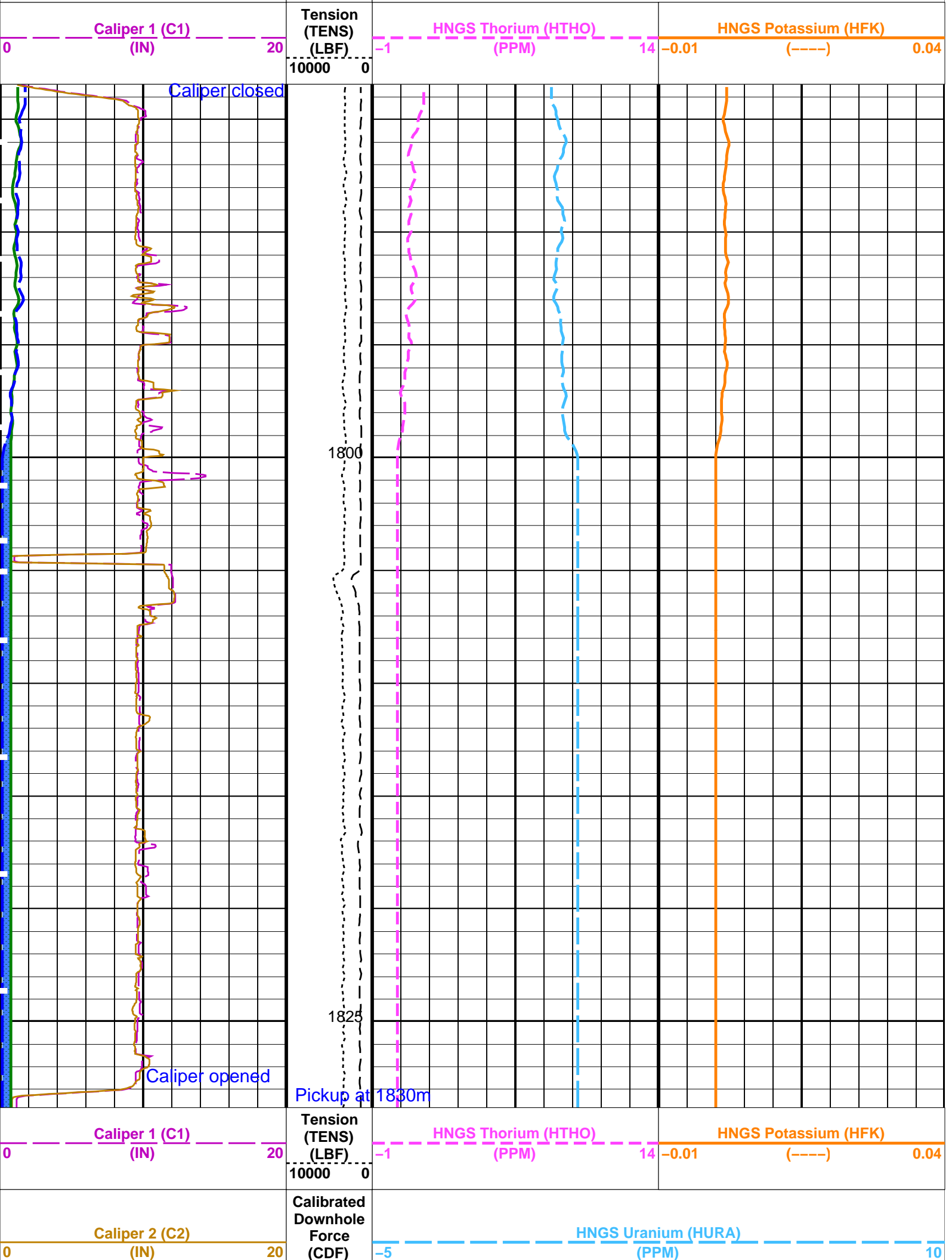
MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### PIP SUMMARY

☒ Time Mark Every 60 S









	(LBF)	10000	0		
<u>HNGS Computed Gamma Ray (HCGR)</u>			<u>HNGS Borehole Potassium (HBHK)</u>		
0	(GAPI)	100		-0.05	0.05
Area1 From HCGR to HSGR			Uplong 1		
HNGS Spectroscopy Gamma Ray (HSGR)					
0	(GAPI)	100			

# 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	-0.0025177	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	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	0.929551	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.990489	
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: 26-Aug-2020 04:48

## OP System Version: 19C0-187

MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_073PUP	FN:96	PRODUCER	20-Aug-2020 03:53	1828.8 M	1783.4 M
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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_111PUP	FN:111	PRODUCER	26-Aug-2020 04:48
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## Input DLIS Files

DEFAULT	FMS_DSI_NGS_050LUP	FN:62	PRODUCER	15-Aug-2020 23:41	1828.8 M	1783.4 M
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# Output DLIS Files

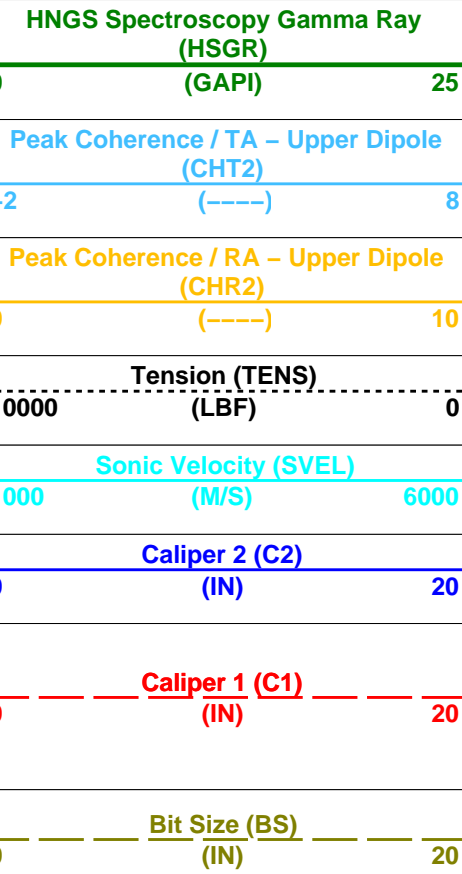
DEFAULT FMS\_DSI\_NGS\_073PUP FN:96 PRODUCER 20-Aug-2020 03:53 1828.8 M 1783.4 M

## OP System Version: 19C0-187

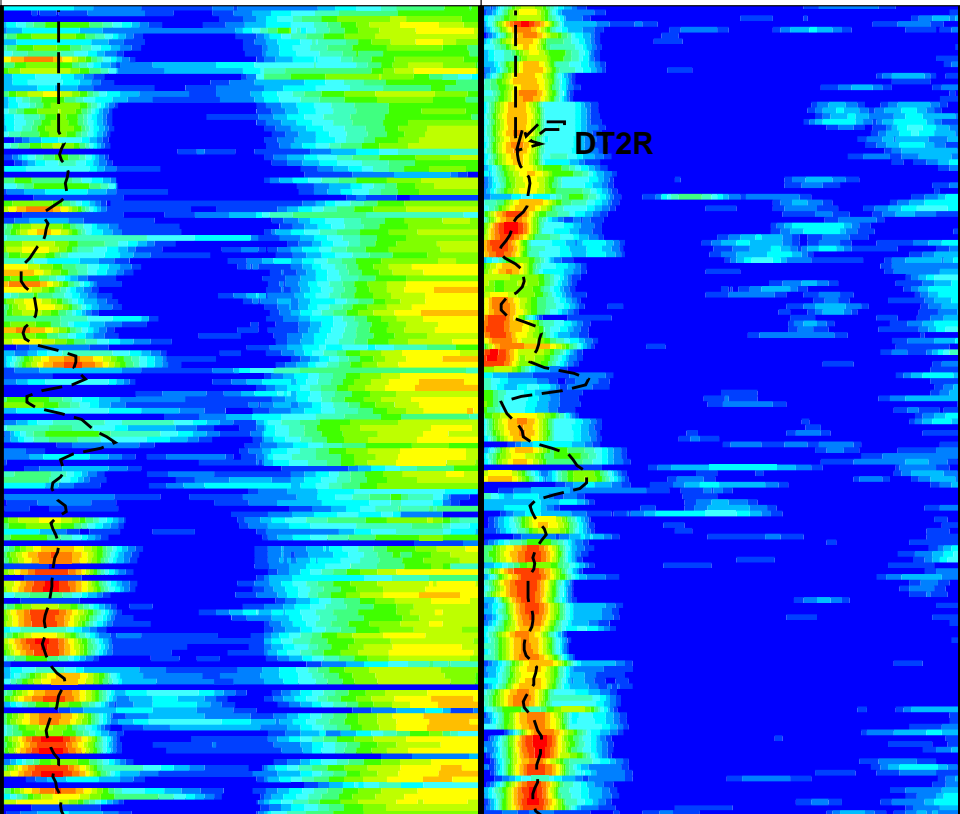
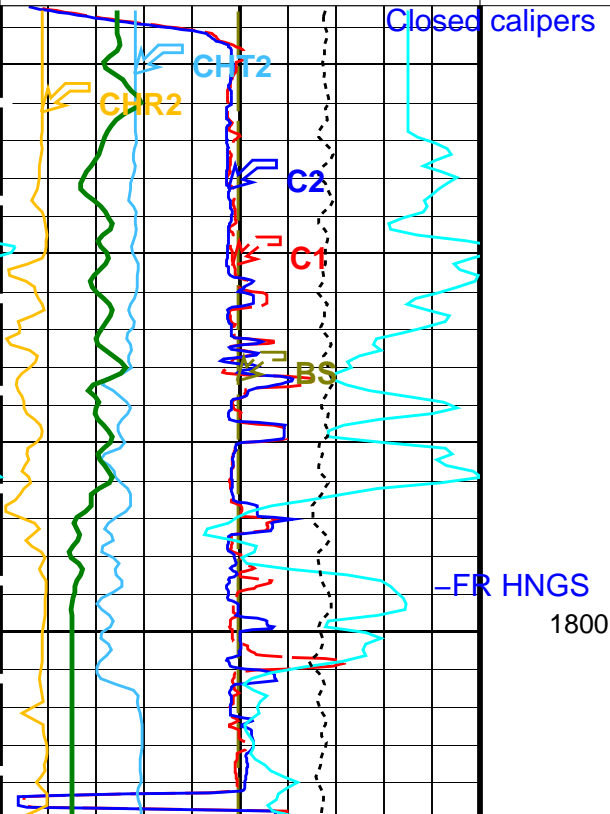
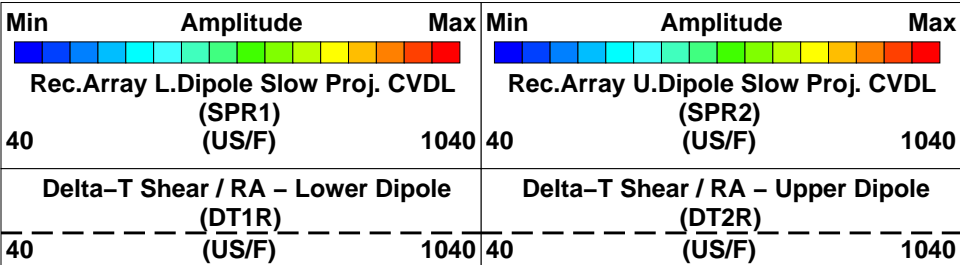
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DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### PIP SUMMARY

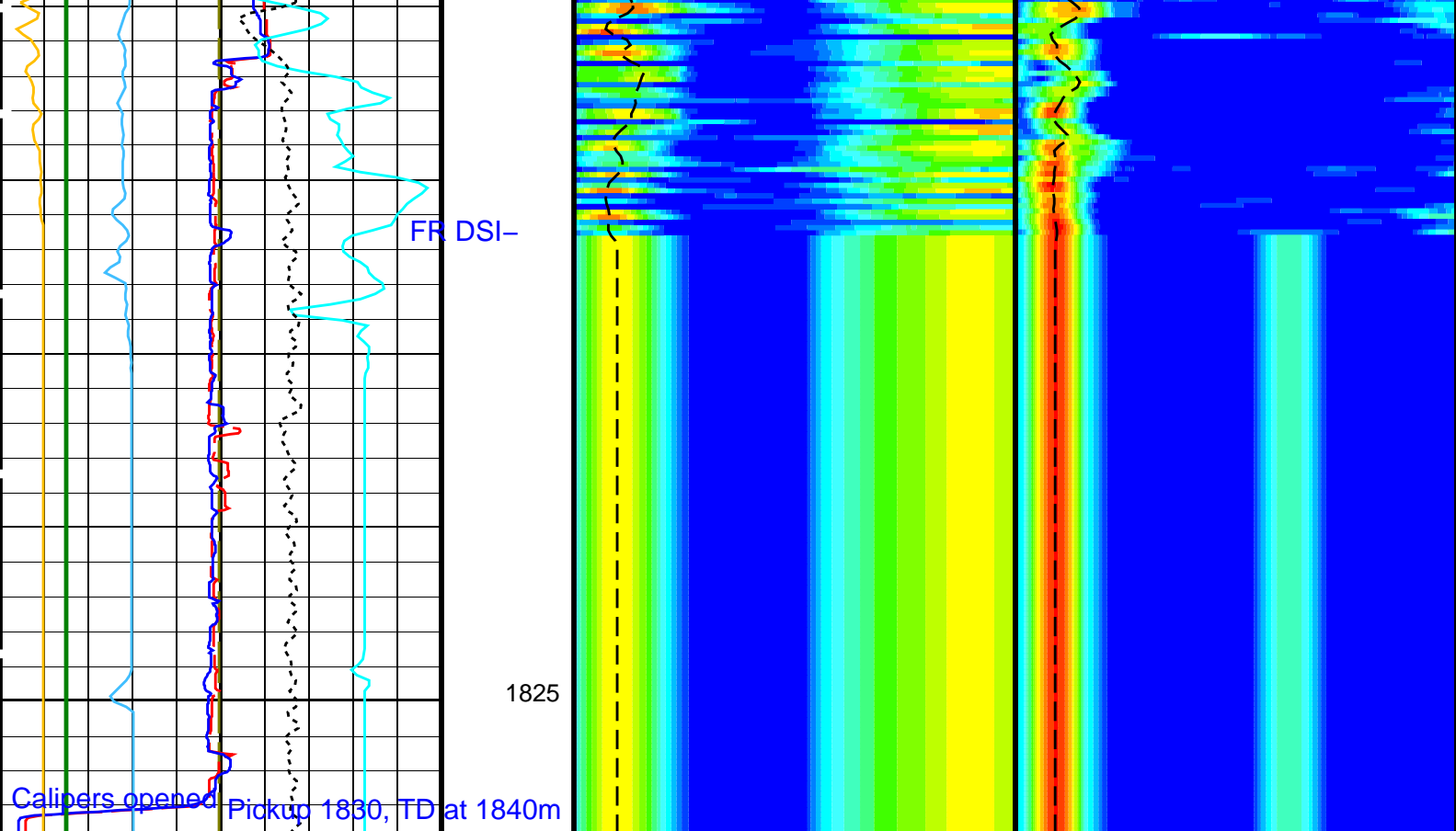
Time Mark Every 60 S



Uplog 1







Bit Size (BS) (IN)		
0		20
Caliper 1 (C1) (IN)		
0		20
Caliper 2 (C2) (IN)		
0		20
Sonic Velocity (SVEL) (M/S)		
1000		6000
Tension (TENS) (LBF)		
10000		0
Peak Coherence / RA - Upper Dipole (CHR2)		
0		10
Peak Coherence / TA - Upper Dipole (CHT2)		
-2		8
HNGS Spectroscopy Gamma Ray (HSGR)		
0		25

Delta-T Shear / RA - Lower Dipole (DT1R)		
40		1040
Delta-T Shear / RA - Upper Dipole (DT2R)		
40		1040
Min	Amplitude	Max
40	Rec.Array L.Dipole Slow Proj. CVDL (SPR1) (US/F)	1040

Min	Amplitude	Max
40	Rec.Array U.Dipole Slow Proj. CVDL (SPR2) (US/F)	1040

#### PIP SUMMARY

Time Mark Every 60 S

#### Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
DDE1	Digitizing Delay 1	0 US



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	40	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	440	US/F
DSI1	Digitizer Sample Interval 1	40	US
DSI2	Digitizer Sample Interval 2	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	
DWC2	Digitizer Word Count 2	512	
DWCX	Digitizer Word Count X	512	
GCSE	Generalized Caliper Selection	BS	
LTXG	Lower Dipole Transmitter Geometry	156	IN
NWI1	Number Waveform Items 1	8	
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
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN	
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS1	STC Sonic Array Status – Lower Dipole	255	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SBO1	STC Search Band Offset – Lower Dipole	3000	US
SBO2	STC Search Band Offset – Upper Dipole	3000	US
SBW1	STC Search Bandwidth – Lower Dipole	8000	US
SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SFM2	STC Filter – Upper Dipole	B1–2K	
SLL1	STC Slowness Lower Limit – Lower Dipole	40	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	40	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL1	STC Slowness Upper Limit – Lower Dipole	1040	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1040	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TST2	STC Time Step – Upper Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	18960	US
TUL2	STC Time Upper Limit – Upper Dipole	18440	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
HNGBS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGBS Detector 1 Barite Constant	1	
BAR2	HNGBS Detector 2 Barite Constant	1	
BHK	HNGBS 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	HNGBS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGBS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGBS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGBS Borehole Potassium Running Average	–0.00147376	
HALF	HNGBS Alpha Filter Length	60	IN
HCRB	HNGBS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGBS Processing Enable	YES	
S1BI	HNGBS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGBS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGBS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	



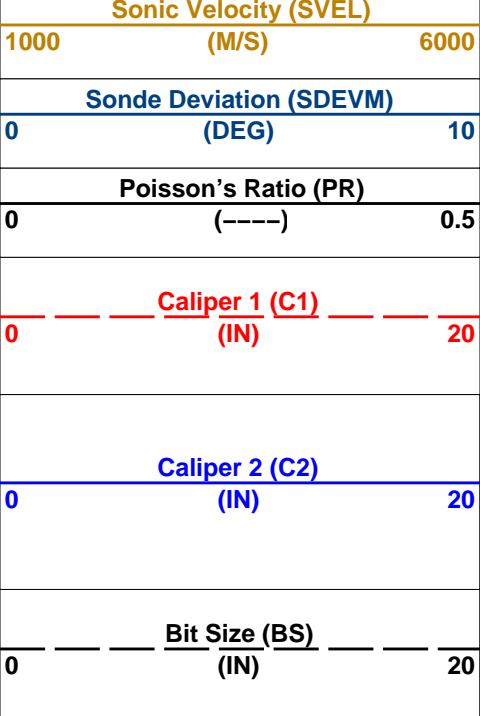
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.972047	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07787	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	
Format: UpperLowerDipole_40_1040    Vertical Scale: 1:200    Graphics File Created: 20-Aug-2020 03:53			
OP System Version: 19C0-187			
MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187
Input DLIS Files			
DEFAULT	FMS_DSI_NGS_050LUP	FN:62    PRODUCER	15-Aug-2020 23:41    1828.8 M    1783.4 M
Output DLIS Files			
DEFAULT	FMS_DSI_NGS_073PUP	FN:96    PRODUCER	20-Aug-2020 03:53

Company: International Ocean Discovery Program				Well: Expedition 384, Site U1555F			
Input DLIS Files							
DEFAULT	FMS_DSI_NGS_050LUP	FN:62	PRODUCER	15-Aug-2020 23:41	1828.8 M	1783.4 M	
Output DLIS Files							
DEFAULT	FMS_DSI_NGS_073PUP	FN:96	PRODUCER	20-Aug-2020 03:53	1828.8 M	1783.4 M	
OP System Version: 19C0-187							
MEST-B	19C0-187	DTA-A_8453	19C0-187				
DSST-B	19C0-187	HNGC-B_304	19C0-187				
HNGS-BA	19C0-187	DTC-H	19C0-187				

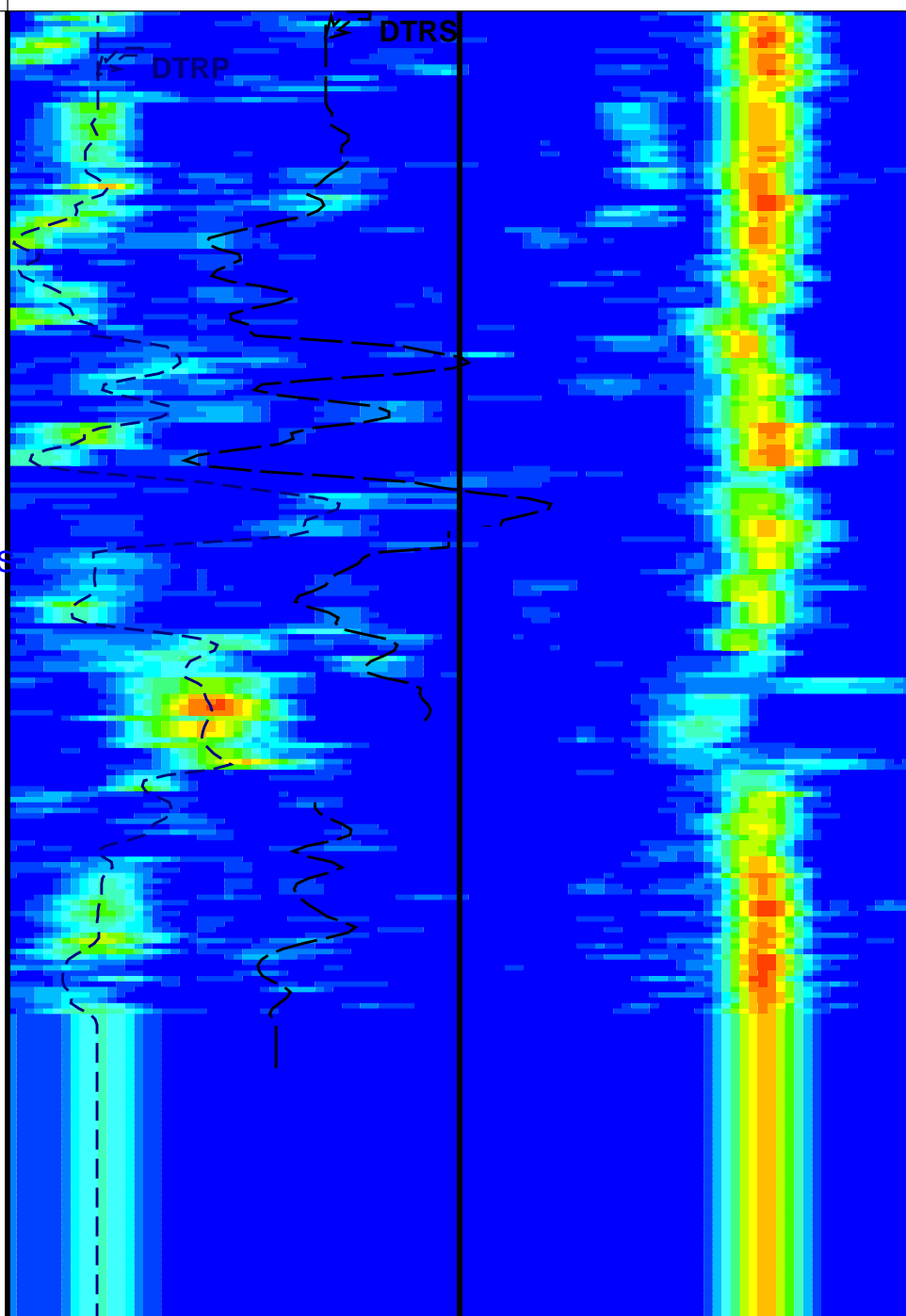
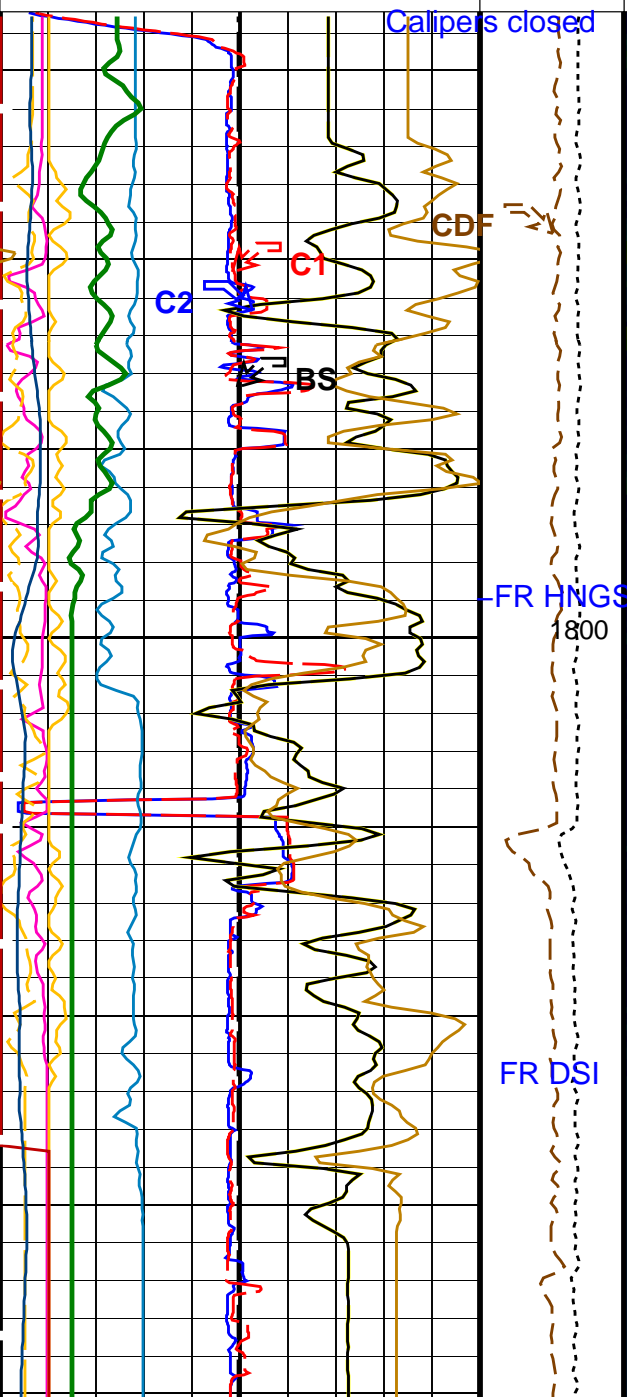
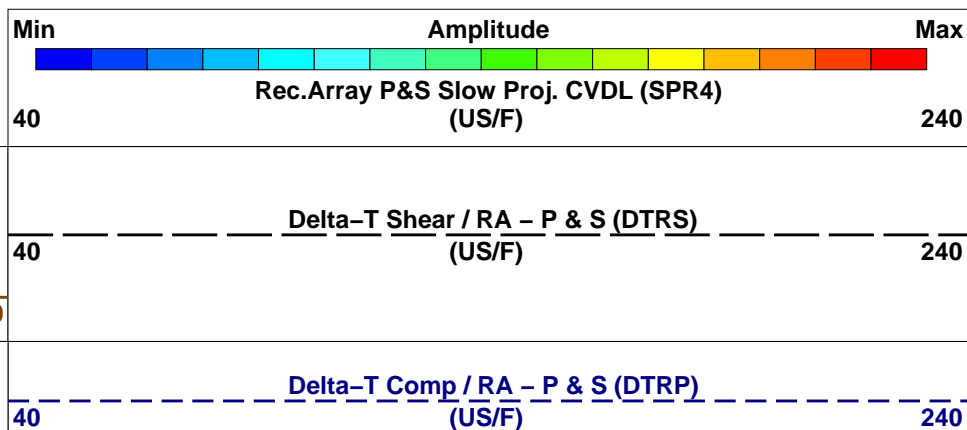
PIP SUMMARY							
Time Mark Every 60 S							

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	25
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----)	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----)	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----)	10
Peak Coherence / TA - Upper Dipole (CHT2)		
-2	(----)	8
Peak Coherence / RA - Upper Dipole (CHR2)		
0	(----)	10
Poisson's Ratio (PR)		
0	(----)	0.5

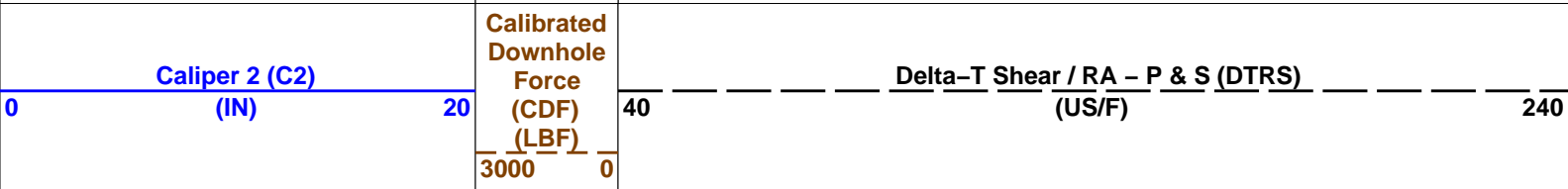
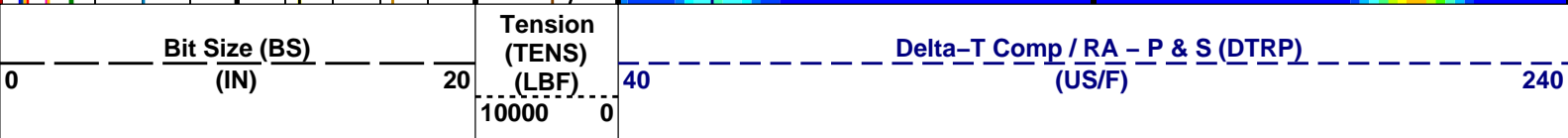
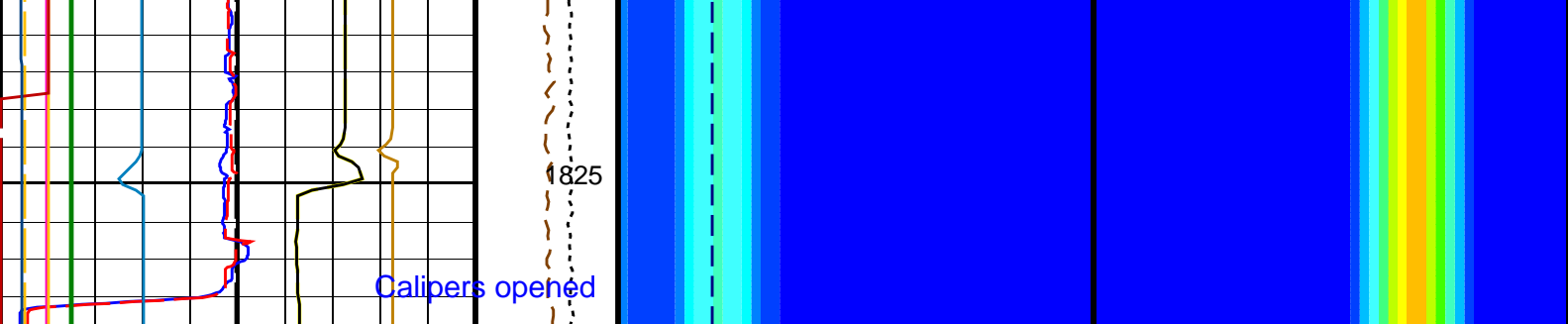




Uplong 1







<b>Poisson's Ratio (PR)</b>	
0 (----) 0.5	
<b>Sonde Deviation (SDEVM)</b>	
0 (DEG) 10	
<b>Sonic Velocity (SVEL)</b>	
1000 (M/S) 6000	
<b>Poisson's Ratio (PR)</b>	
0 (----) 0.5	
<b>Peak Coherence / RA - Upper Dipole (CHR2)</b>	
0 (----) 10	
<b>Peak Coherence / TA - Upper Dipole (CHT2)</b>	
-2 (----) 8	
<b>Peak Coherence / RA - P &amp; S Comp (CHRP)</b>	
0 (----) 10	
<b>Peak Coherence / RA - P &amp; S Shear (CHRS)</b>	
-1 (----) 9	
<b>Waveform Data Copy Indicator 4 - Monopole P&amp;S (WCI4)</b>	
0 (----) 10	
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>	
0 (GAPI) 25	

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MEST-B: Micro Electrical Scanner - B (Slim)		

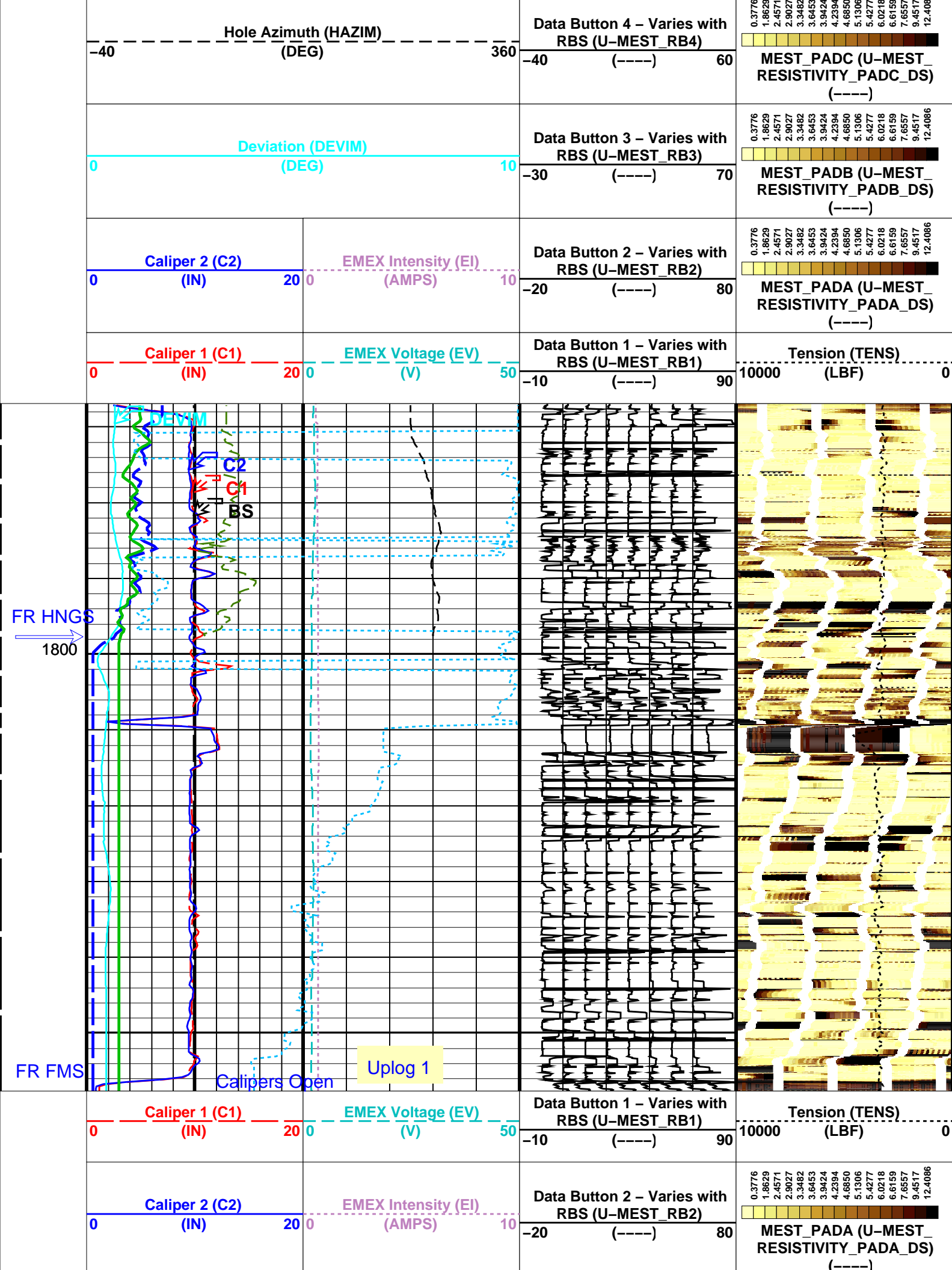


AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	-14.3039	DEG
DSST-B: Dipole Shear Imager - B			
BHS	Borehole Status	OPEN	
CASF	Label Casing Function - Monopole P&S	50	
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	180	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source - Dipole Shear	USE	
DSHL	Label Slowness Lower Limit - Dipole Shear	40	US/F
DSHU	Label Slowness Upper Limit - Dipole Shear	440	US/F
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	189	US/F
DTSS	Shear Delta-T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control - Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	BS	
LFC	Label Formation Character - Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio - Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio - Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 - Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X - Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status - Upper Dipole	255	
SAS4	STC Sonic Array Status - Monopole P&S	255	
SBO4	STC Search Band Offset - Monopole P&S	500	US
SBR4	STC Baseline Removal - Monopole P&S	ON	
SBW4	STC Search Bandwidth - Monopole P&S	2000	US
SFC4	STC Formation Character - Monopole P&S	SELECTABLE	
SFM4	STC Filter - Monopole P&S	B3-20K	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	180	US/F
SLL4	STC Slowness Lower Limit - Monopole P&S	40	US/F
SST4	STC Slowness Step - Monopole P&S	2	US/F
SSW2	STC Source Waveform - Upper Dipole	WF_SAM2	
SSW4	STC Source Waveform - Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit - Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit - Monopole Stoneley	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
TWI2	STC Integration Time Window - Upper Dipole	1600	US
TWI4	STC Integration Time Window - Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00147376	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	











Deviation (DEVIM) (DEG)		0	10	Data Button 3 – Varies with RBS (U-MEST_RB3)	-30	(----)	70	<div> 0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086 </div> MEST_PADB (U-MEST_RESISTIVITY_PADB_DS) (----)
Hole Azimuth (HAZIM) (DEG)		-40	360	Data Button 4 – Varies with RBS (U-MEST_RB4)	-40	(----)	60	<div> 0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086 </div> MEST_PADC (U-MEST_RESISTIVITY_PADC_DS) (----)
Pad One Azimuth (P1AZ_MEST) (DEG)		-40	360	Data Button 5 – Varies with RBS (U-MEST_RB5)	-50	(----)	50	<div> 0.3776 1.8629 2.4571 2.9027 3.3482 3.6453 3.9424 4.2394 4.6850 5.1306 5.4277 6.0218 6.6159 7.6557 9.4517 12.4086 </div> MEST_PADD (U-MEST_RESISTIVITY_PADD_DS) (----)
Relative Bearing (RB_MEST) (DEG)		-40	360	Data Button 6 – Varies with RBS (U-MEST_RB6)	-60	(----)	40	
Bit Size (BS) (IN)		0	20	Data Button 7 – Varies with RBS (U-MEST_RB7)	-70	(----)	30	
HNGS Computed Gamma Ray (HCGR) (GAPI)		0	25	Data Button 8 – Varies with RBS (U-MEST_RB8)	-80	(----)	20	
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)		0	25					

PIP SUMMARY

Time Mark Every 60 S

Parameters

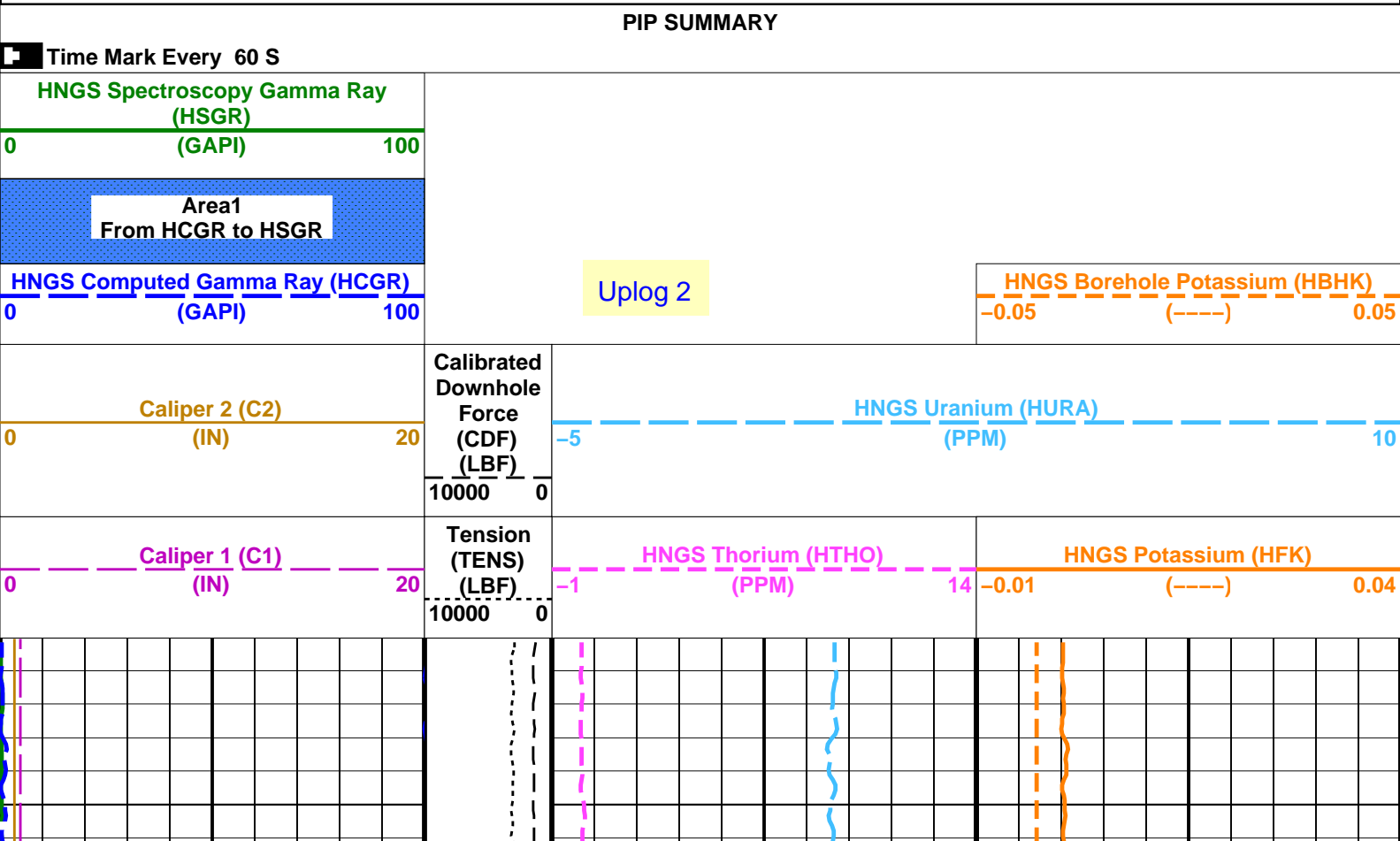
DLIS Name	Description	Value	
MEST-B: Micro Electrical Scanner – B (Slim)			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	-14.3039	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
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	-0.00147376	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	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	
VP11	HNGS Detector 1 Variable Barite Factor Running Average	0.072047	



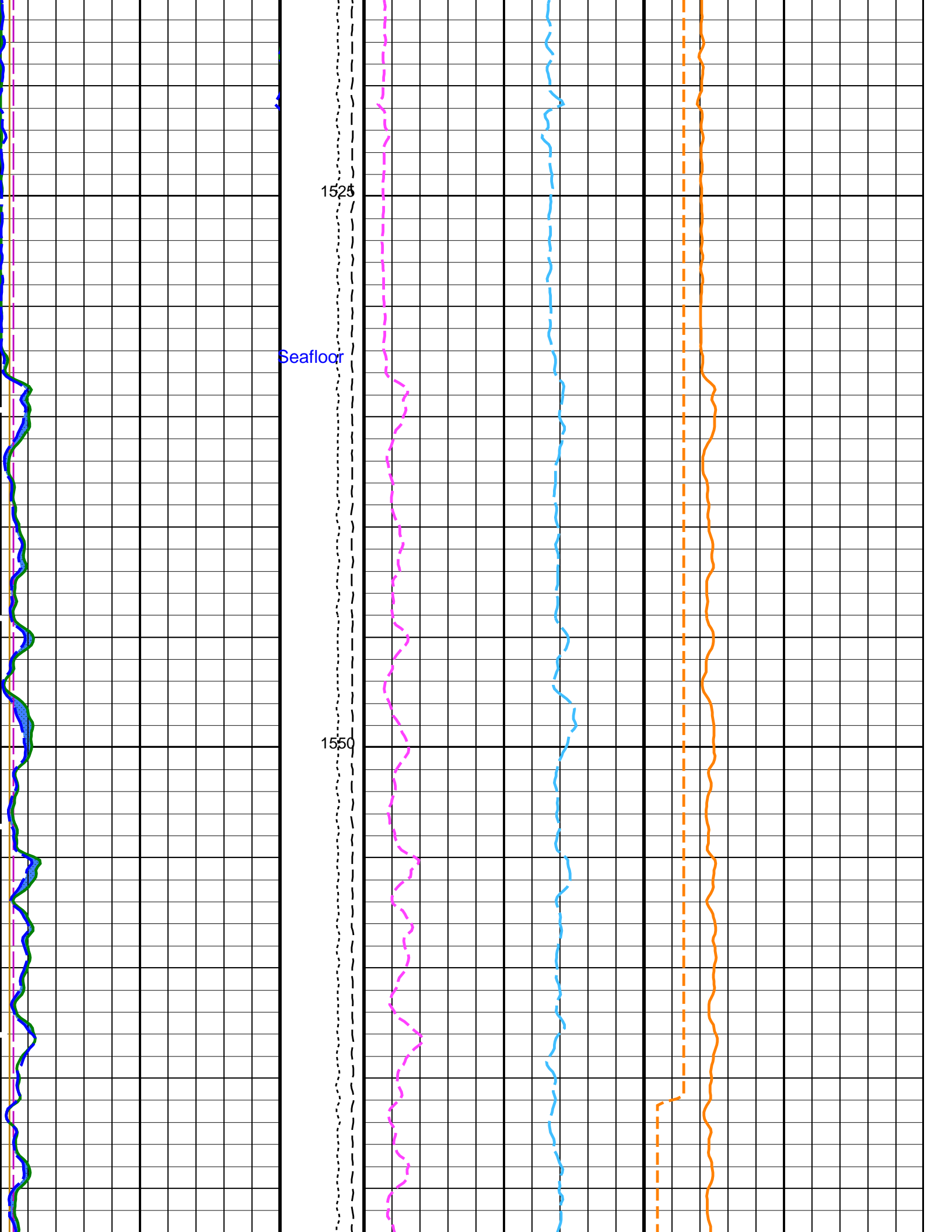
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.972047	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07787	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: MEST_C_WRAP_BY_P1AZ		Vertical Scale: 1:300		Graphics File Created: 20-Aug-2020 03:53		
OP System Version: 19C0-187						
MEST-B	19C0-187		DTA-A_8453	19C0-187		
DSST-B	19C0-187		HNGC-B_304	19C0-187		
HNGS-BA	19C0-187		DTC-H	19C0-187		
Input DLIS Files						
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Output DLIS Files						
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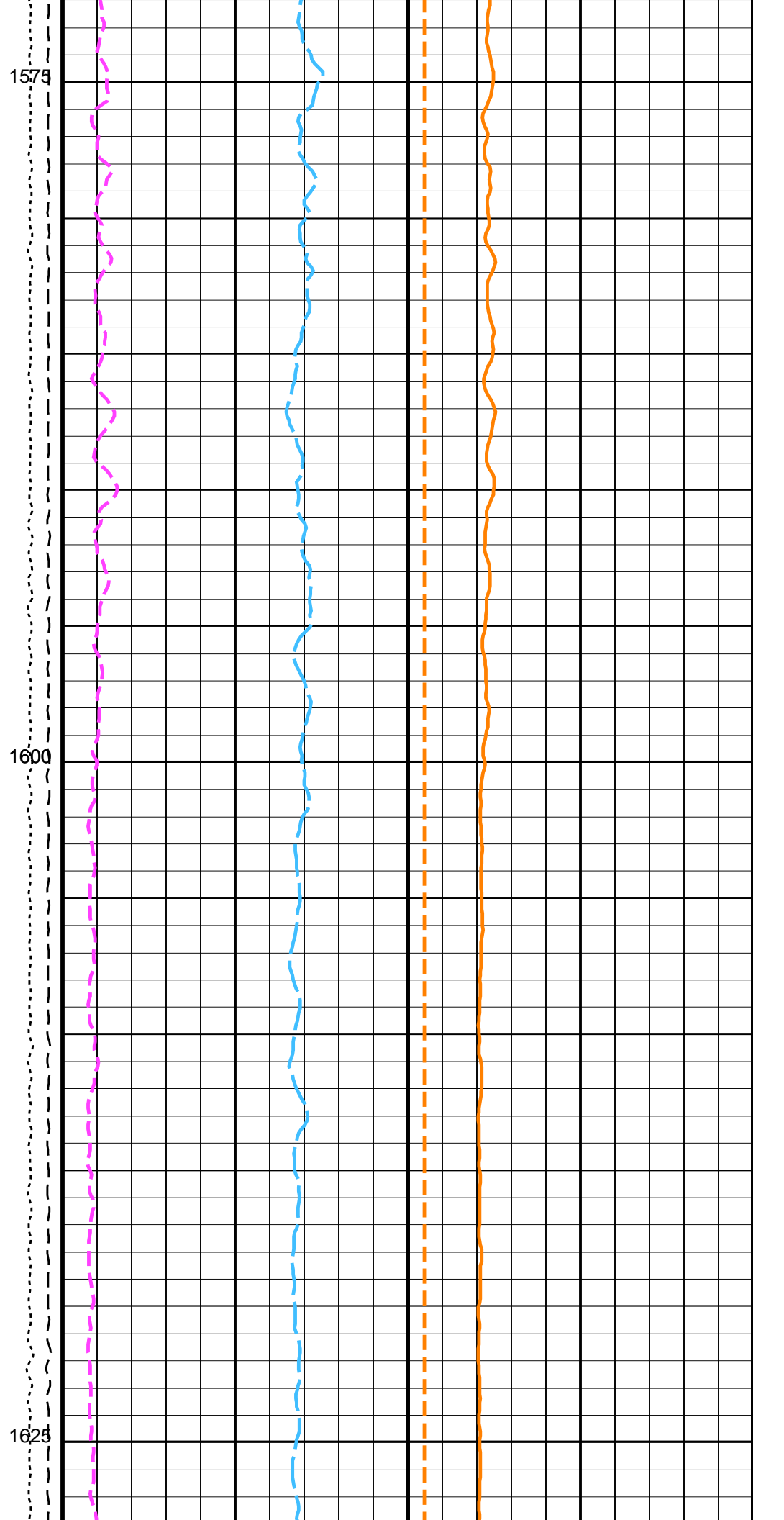
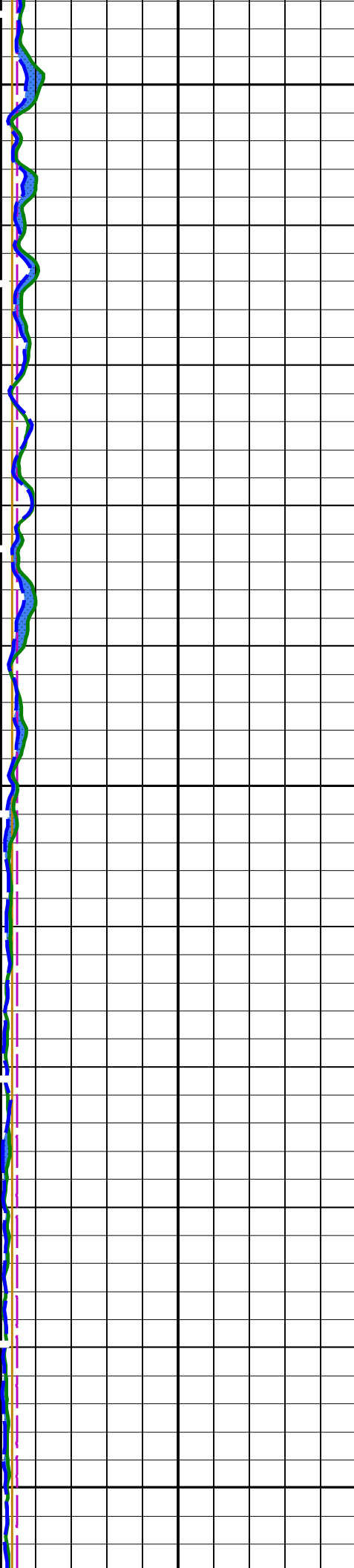
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Output DLIS Files				
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OP System Version: 19C0-187				
MEST-B	19C0-187	DTA-A_8453	19C0-187	
DSST-B	19C0-187	HNGC-B_304	19C0-187	
HNGS-BA	19C0-187	DTC-H	19C0-187	



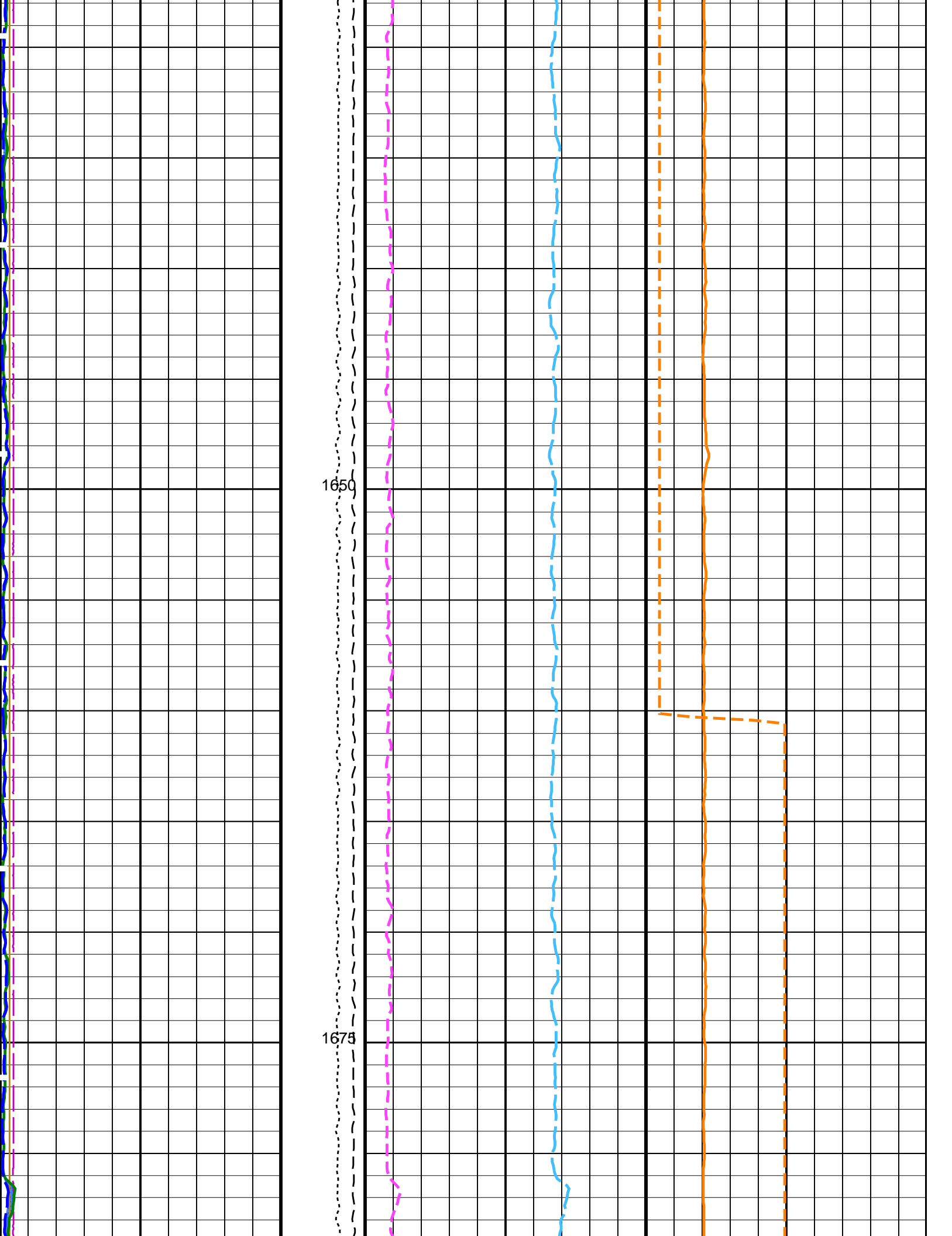




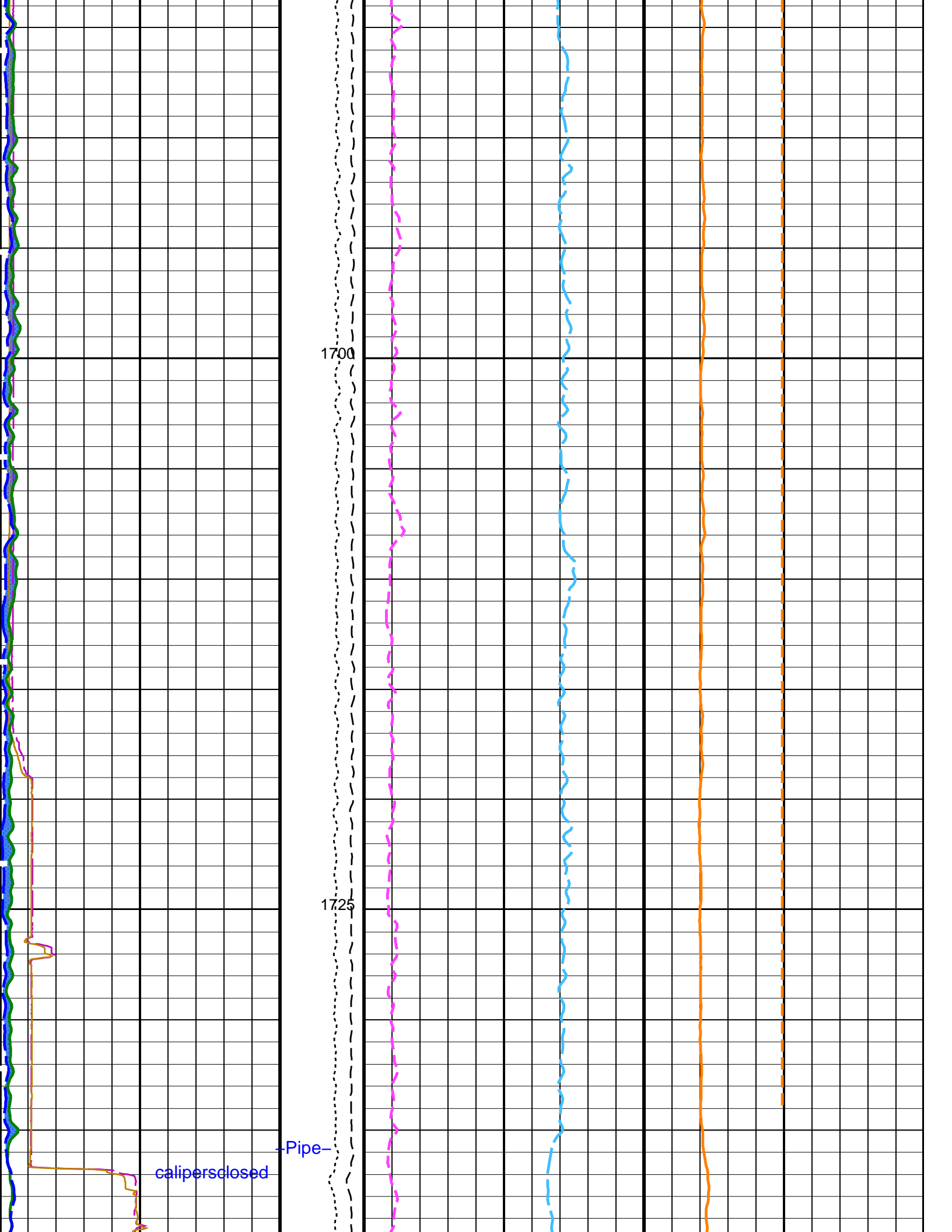




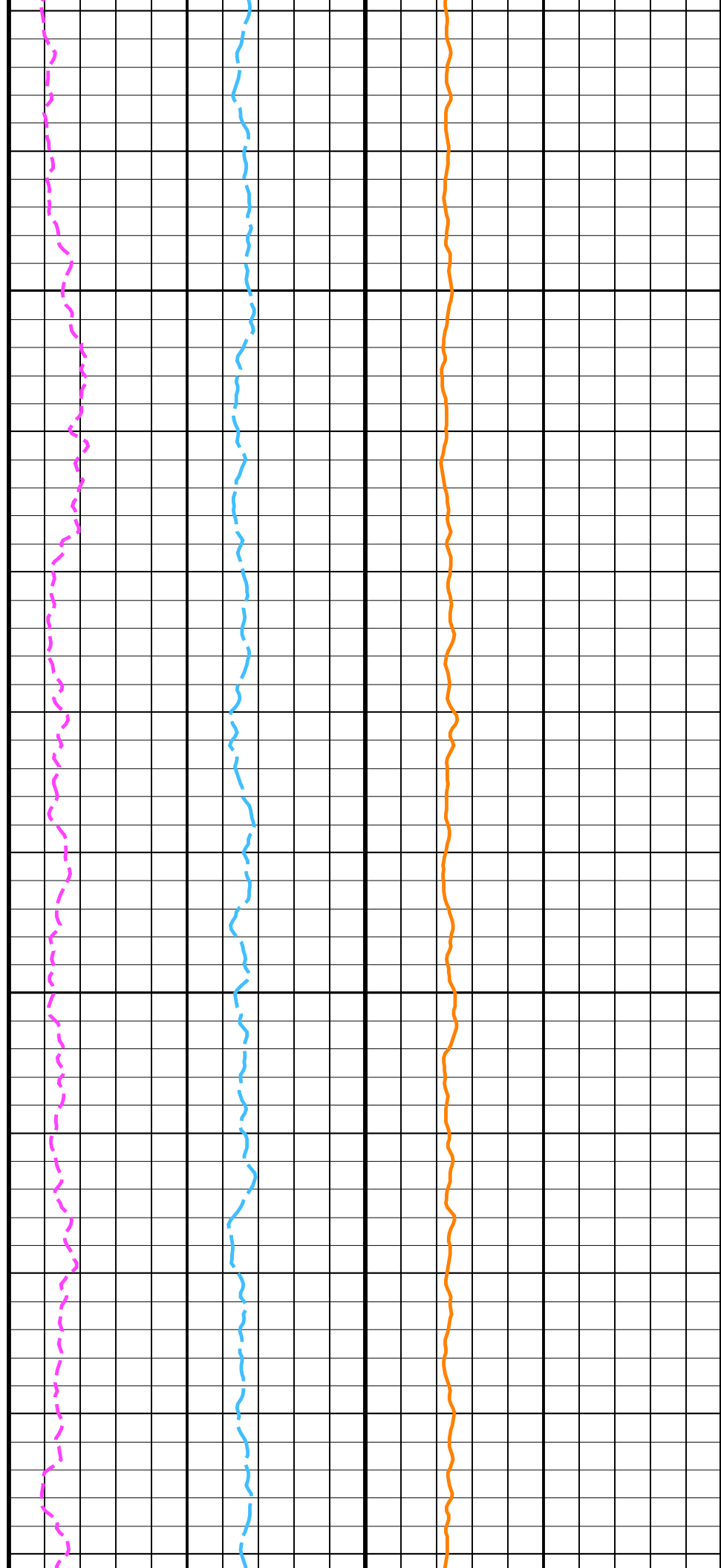
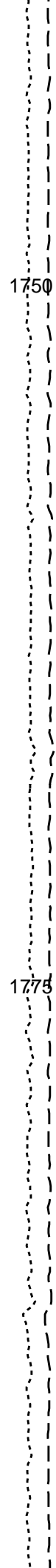
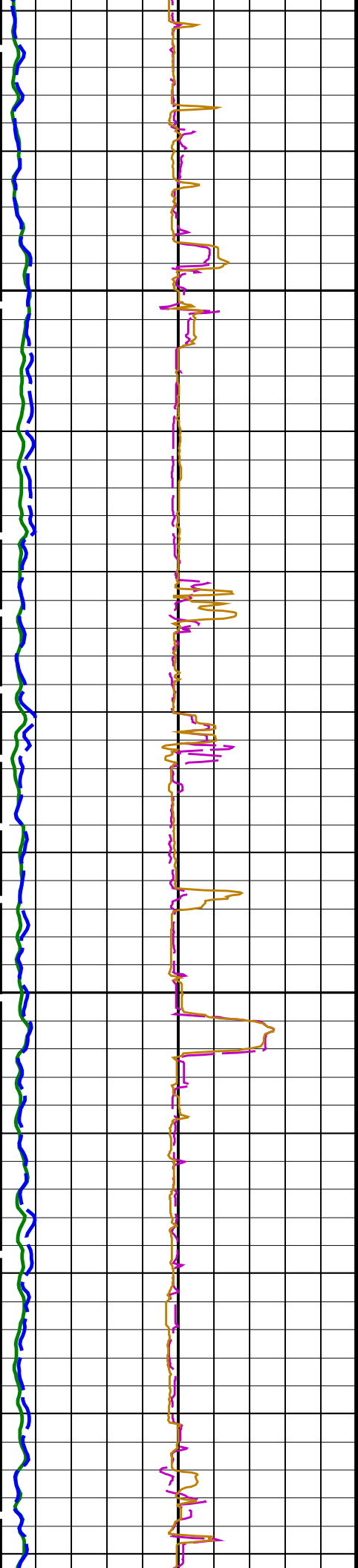




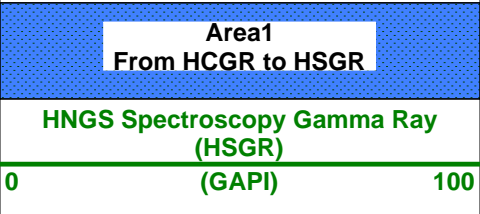
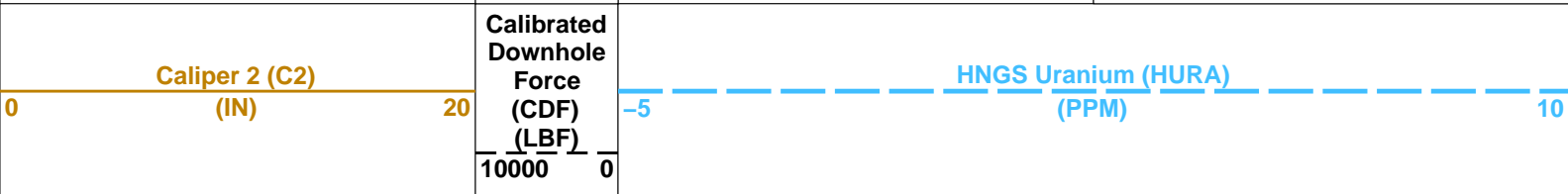
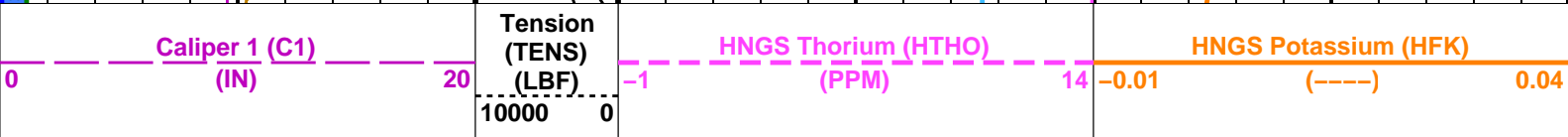
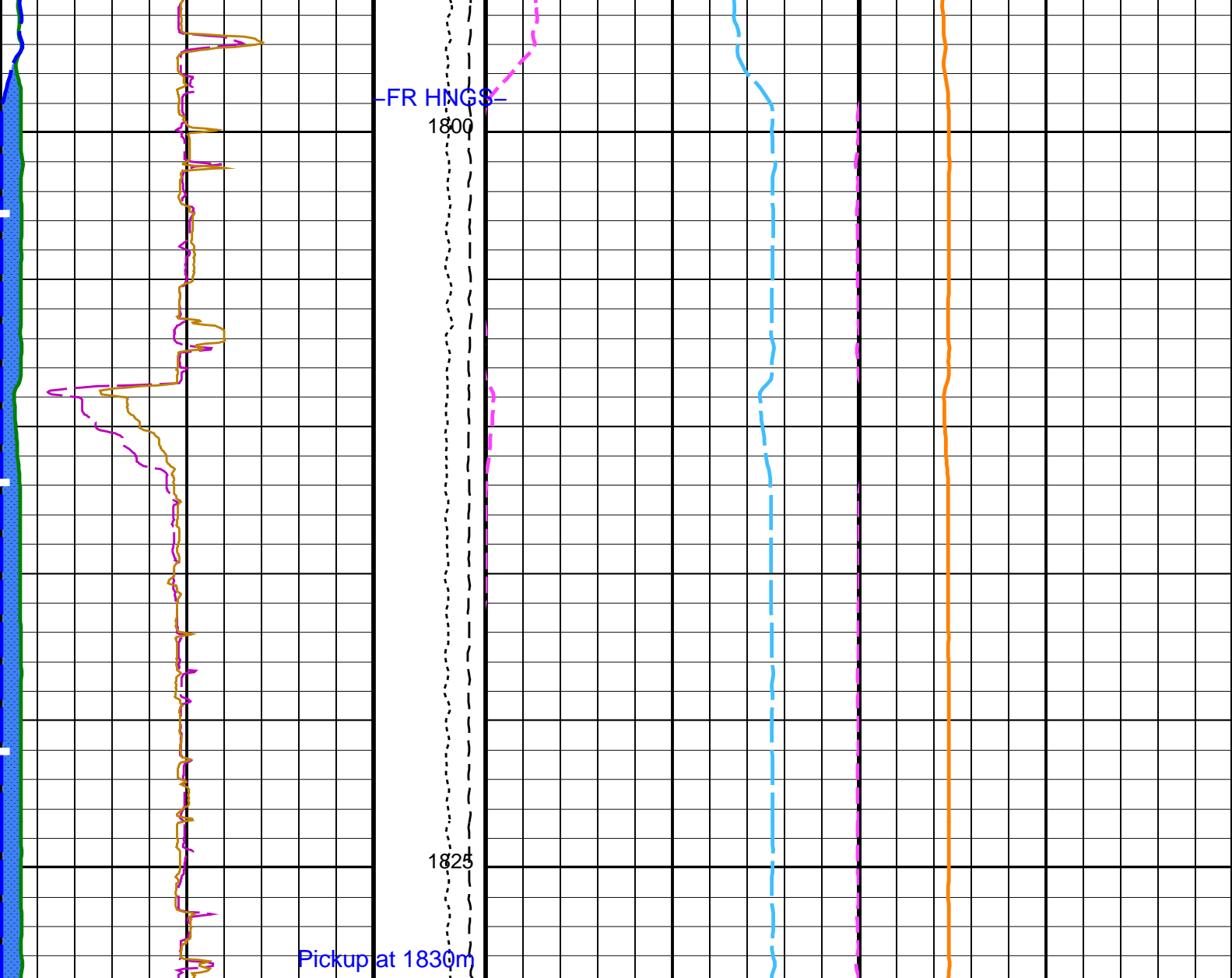












PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value



DSST-B: Dipole Shear Imager - B		Borehole Status	OPEN	
BHS		Generalized Caliper Selection	C1	
GCSE	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	-0.0371136	
HALF		HNGS Alpha Filter Length	60	IN
HCRB		HNGS Apply Borehole Potassium Correction	NONE	
HMWM		Mud Weighting Material	BARI	
HNPE		HNGS Processing Enable	YES	
S1BI		HNGS Detector 1 Calibration Bismuth Count Rate	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	0.98426	
VBA2		HNGS Detector 2 Variable Barite Factor Running Average	1.10509	
System and Miscellaneous				
BS		Bit Size	9.875	IN
DO		Depth Offset for Playback	0.0	M
PP		Playback Processing	RECOMPUTE	

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 20-Aug-2020 04:21

OP System Version: 19C0-187					
MEST-B	19C0-187	DTA-A_8453	19C0-187		
DSST-B	19C0-187	HNGC-B_304	19C0-187		
HNGS-BA	19C0-187	DTC-H	19C0-187		

Input DLIS Files						
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Output DLIS Files						
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Input DLIS Files						
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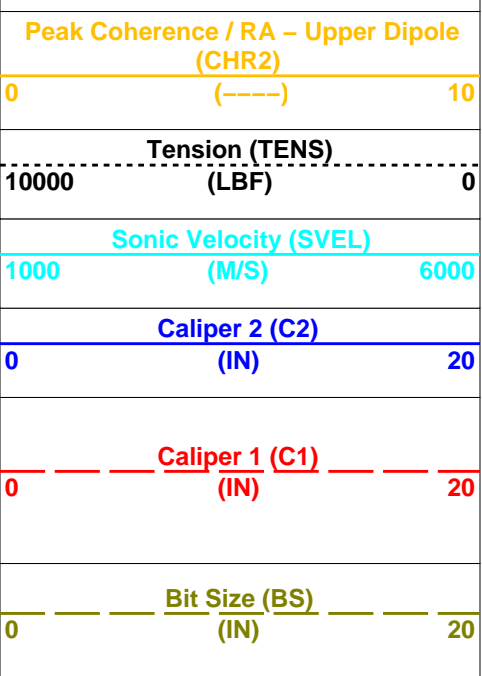
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HNGS-BA	19C0-187	DTC-H	19C0-187		

PIP SUMMARY

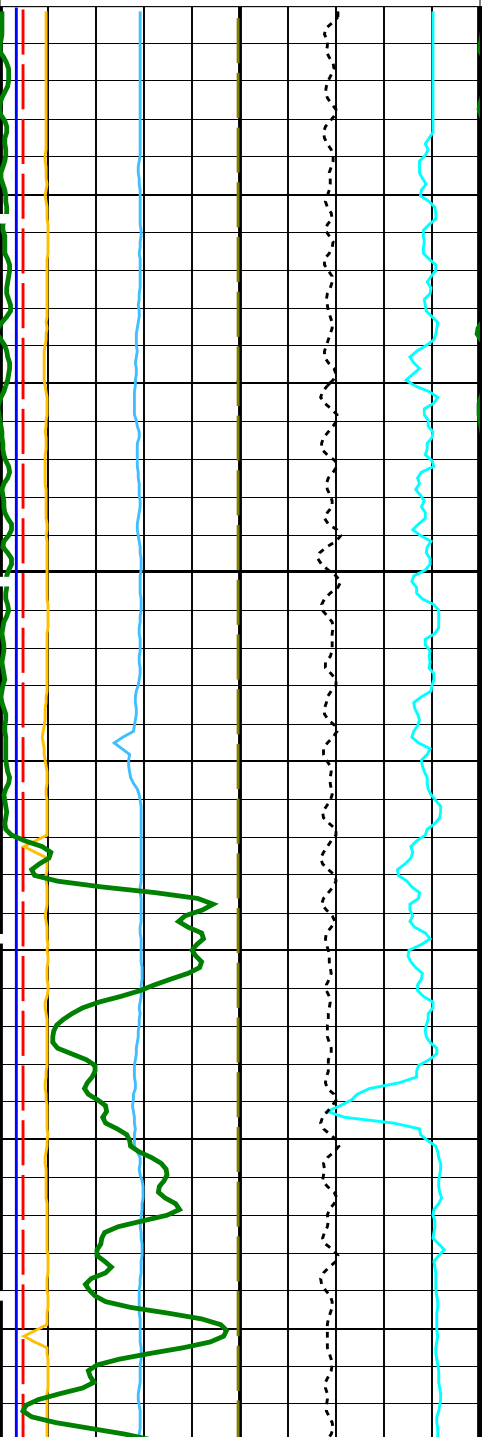
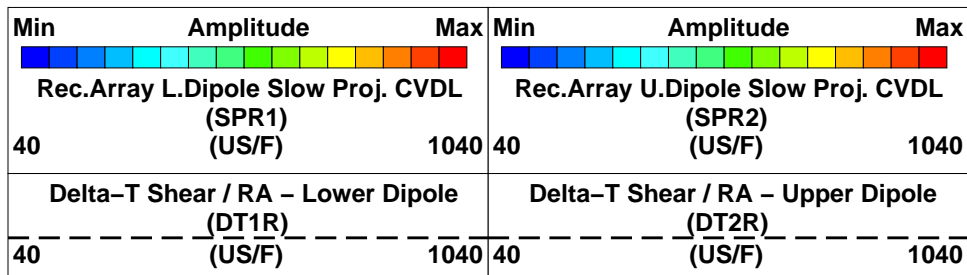
Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	25
Peak Coherence / TA - Upper Dipole (CHT2)		
-2	(----)	8



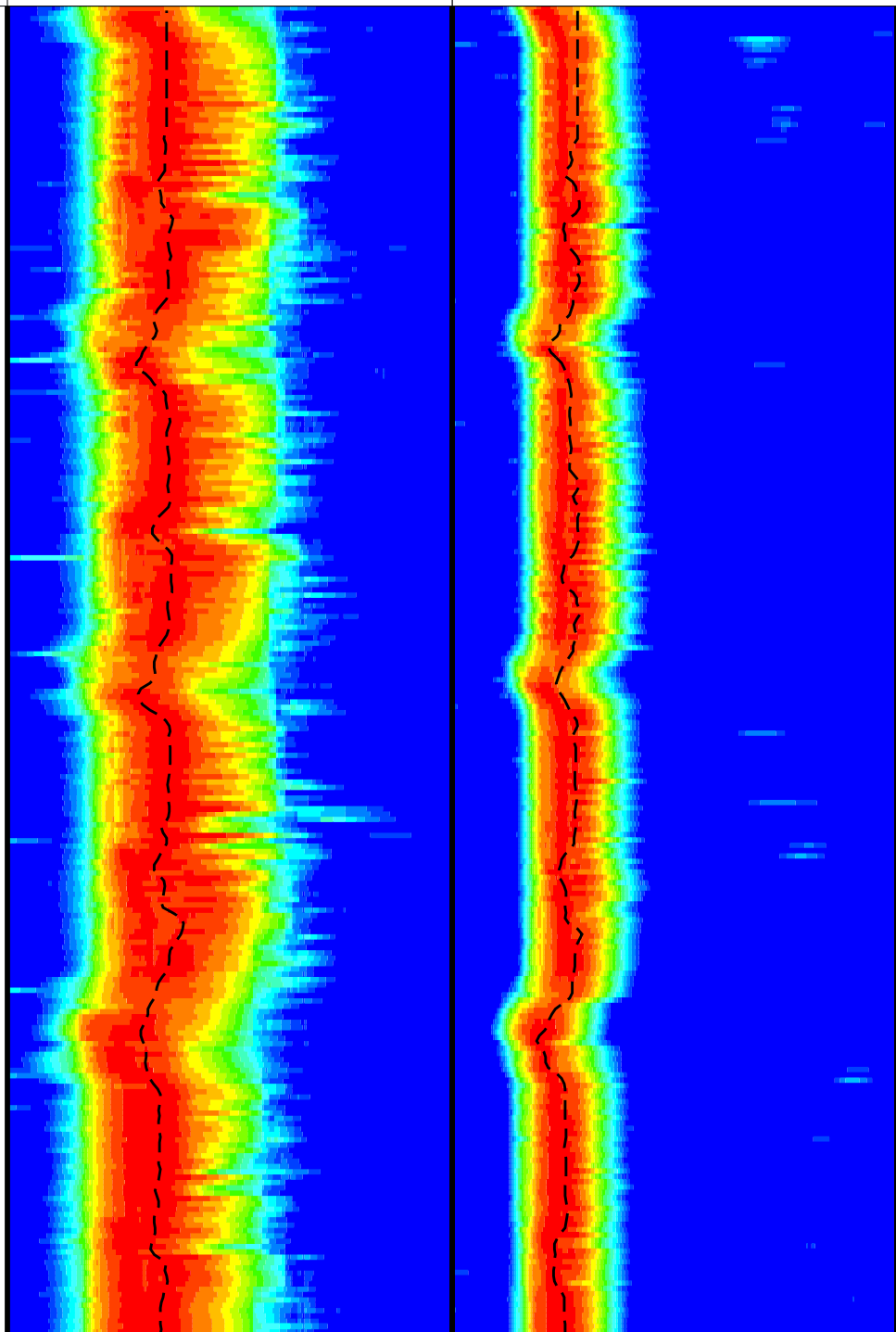


Uplog 2

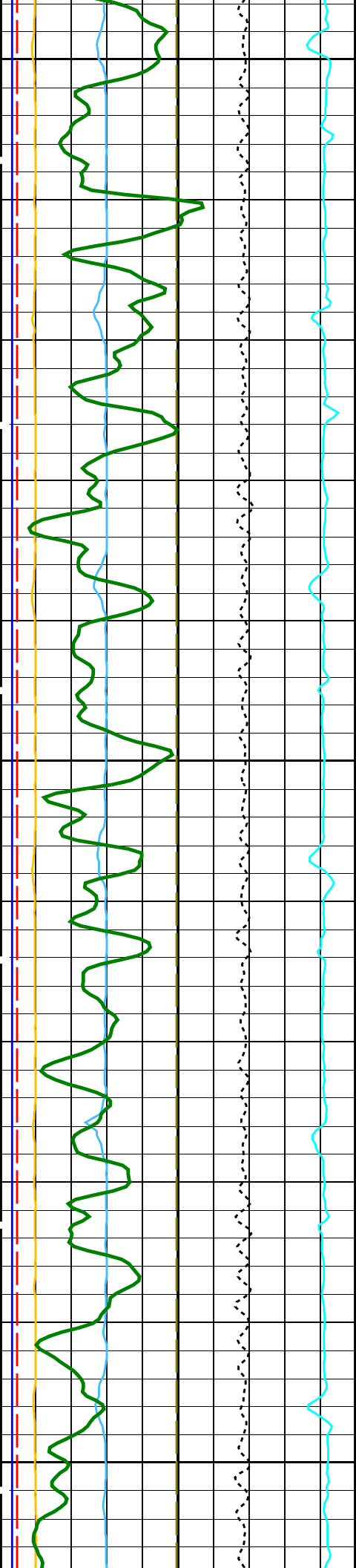


1525

Seafloor



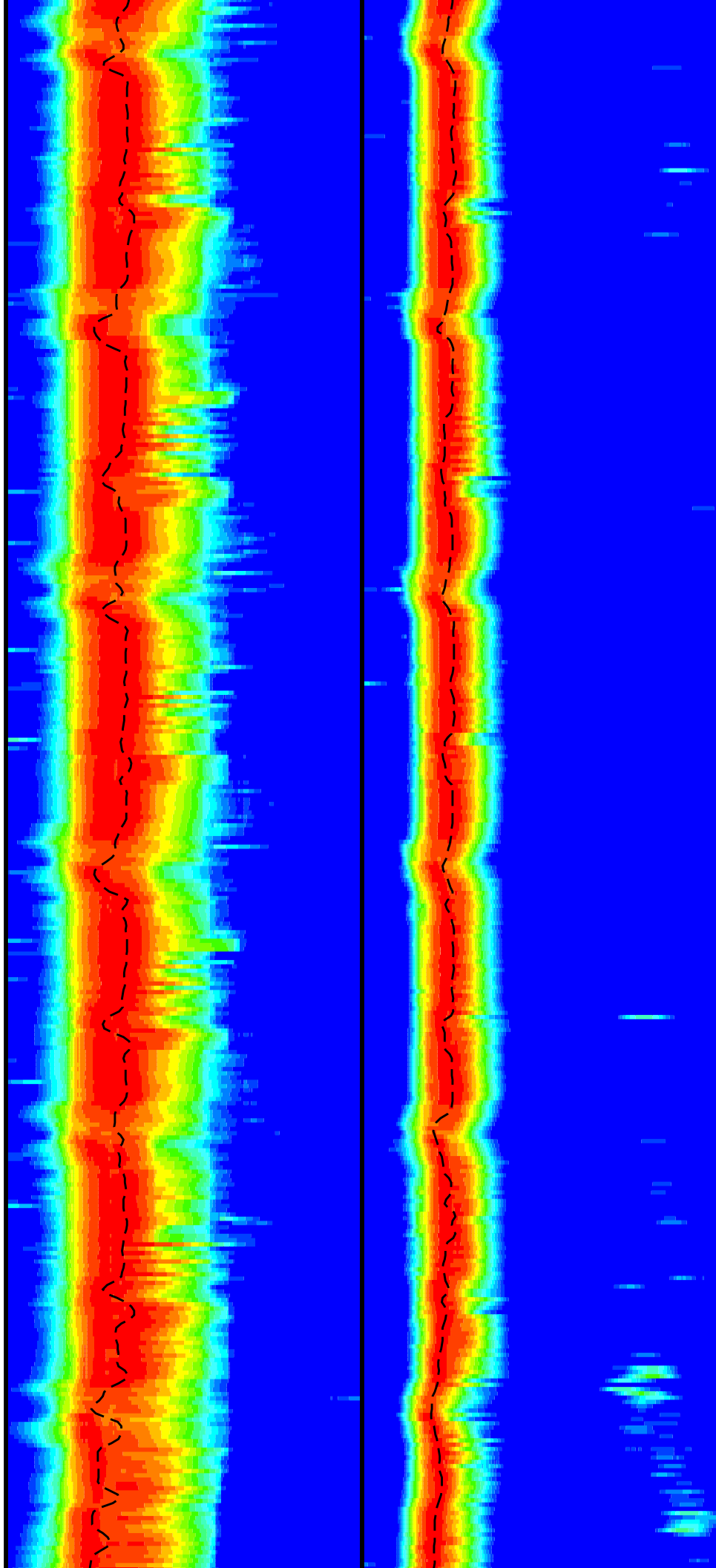




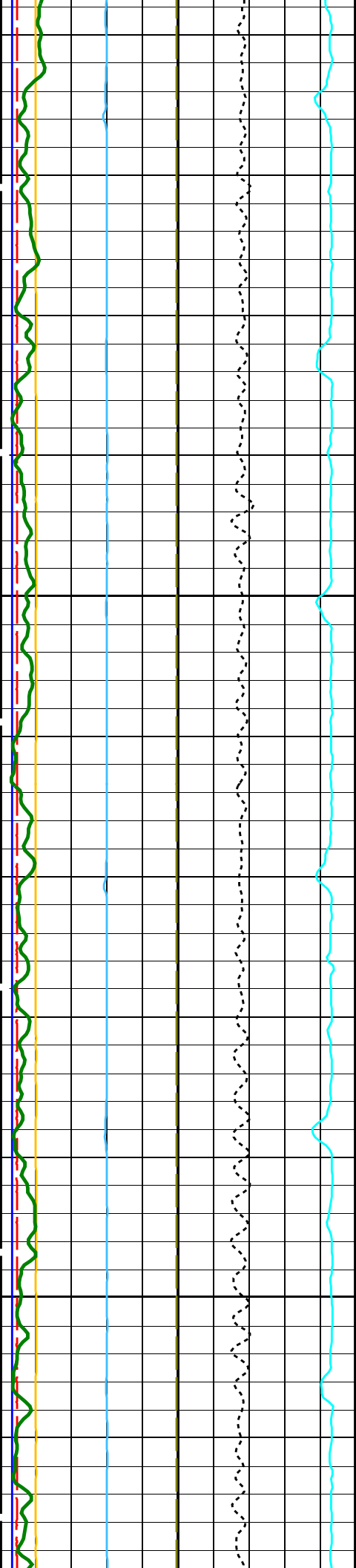
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1575

1600

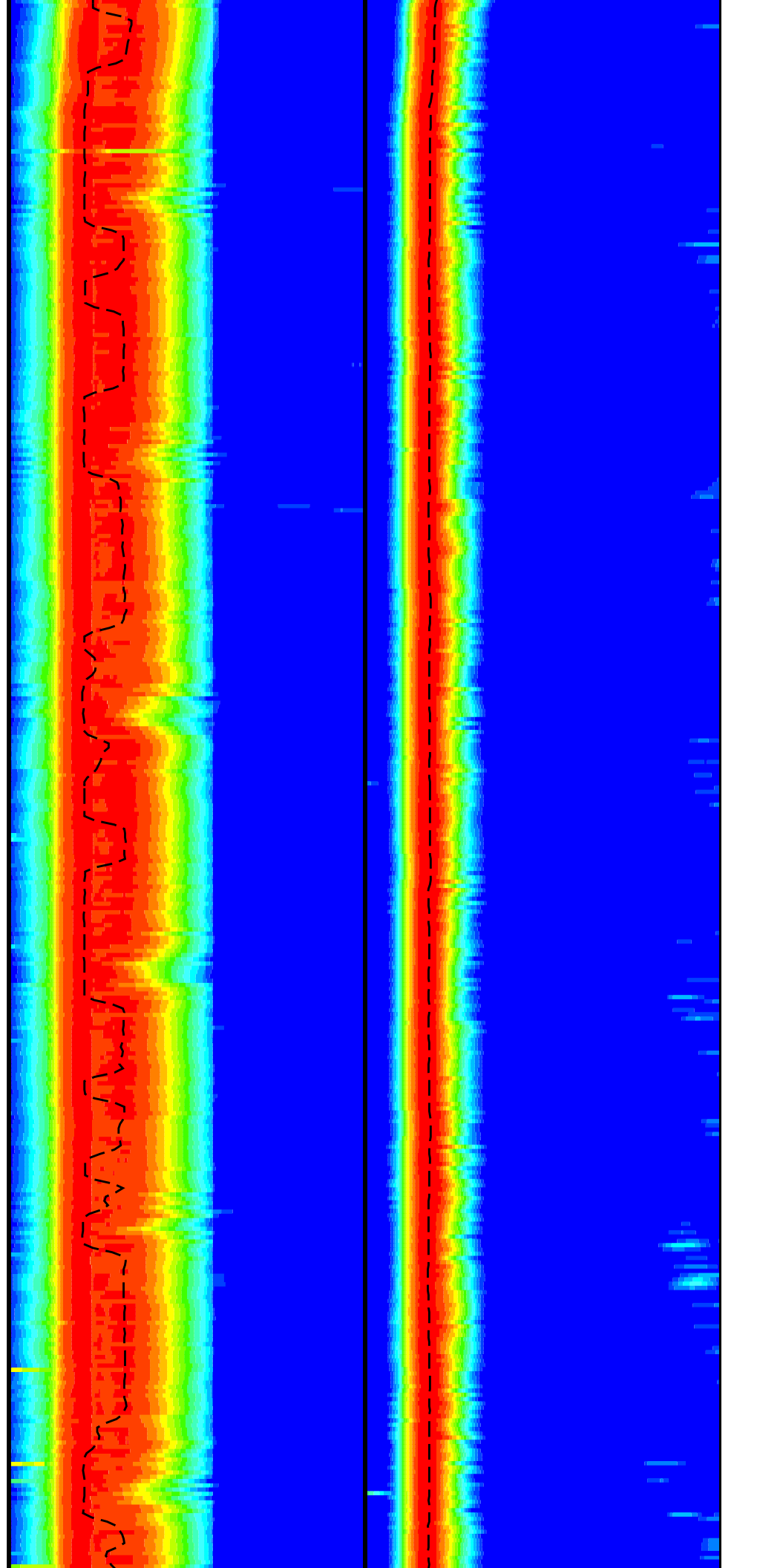




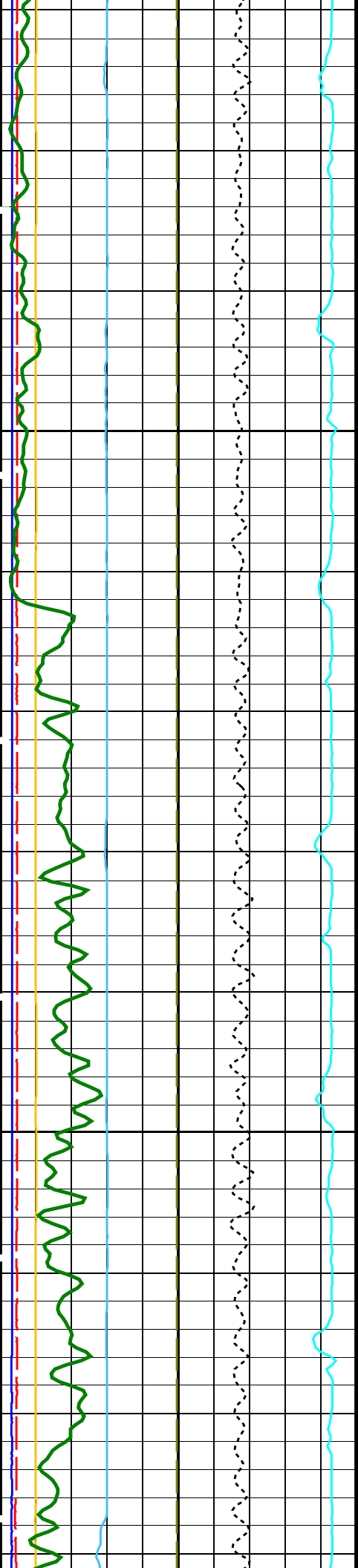


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1650

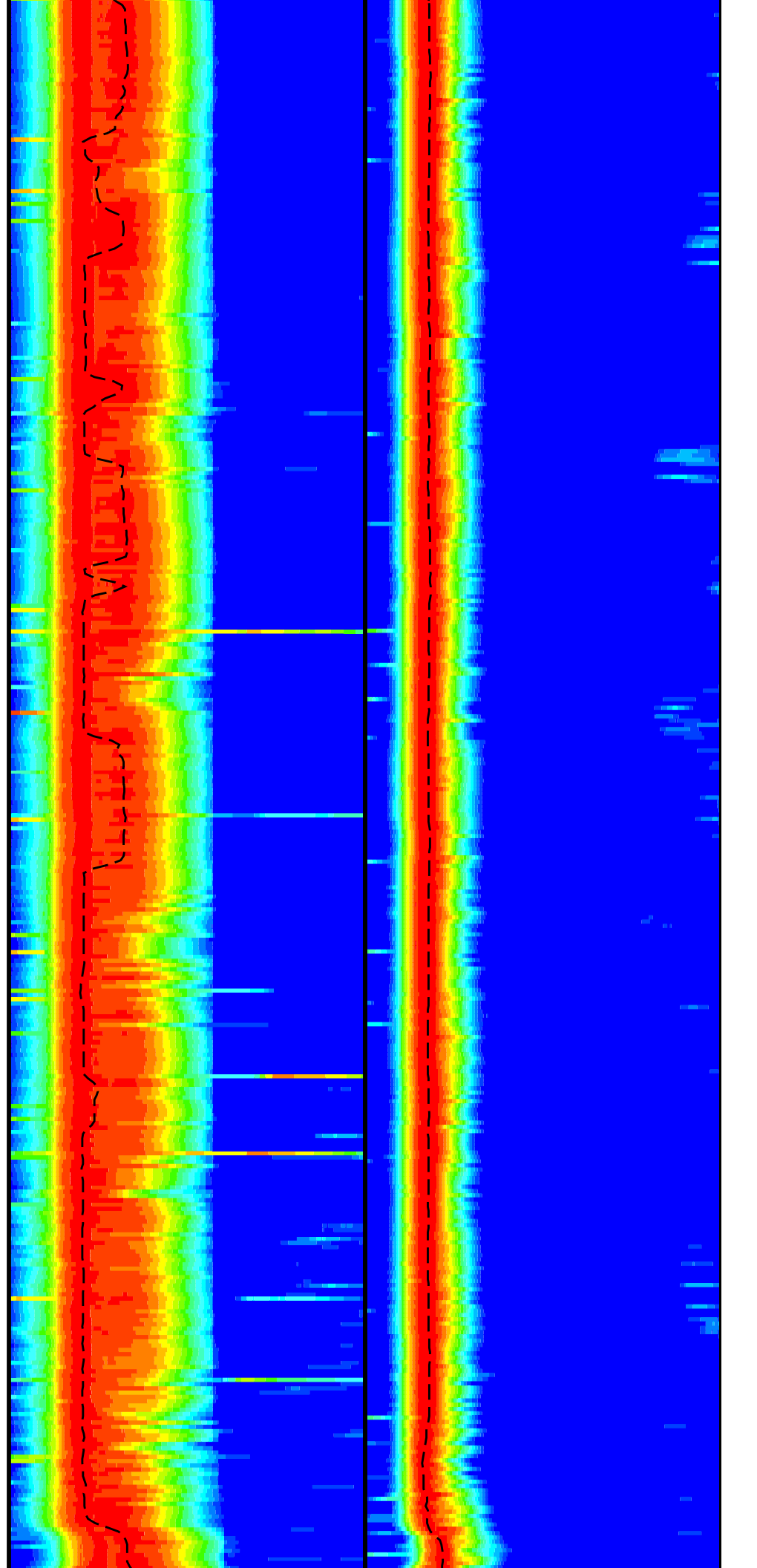




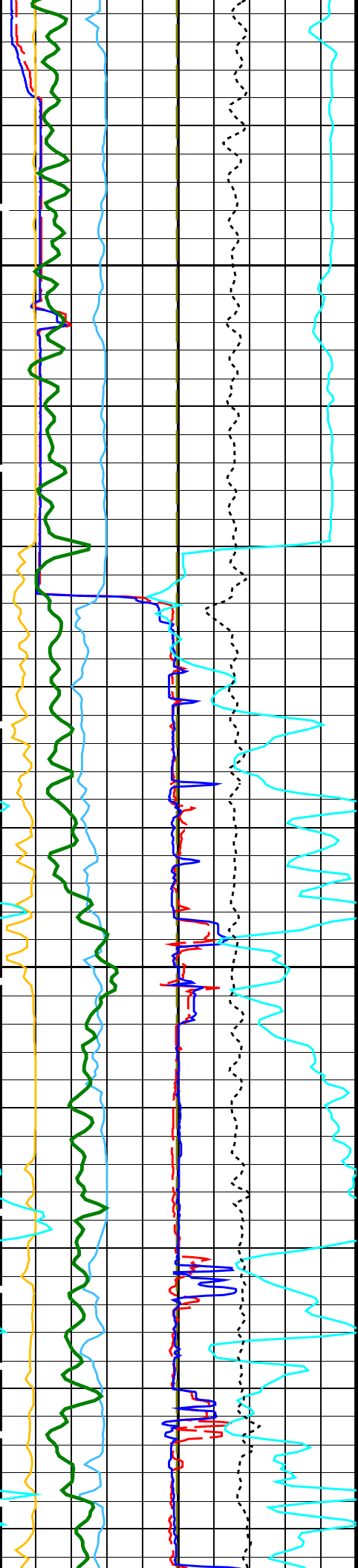


1675

1700



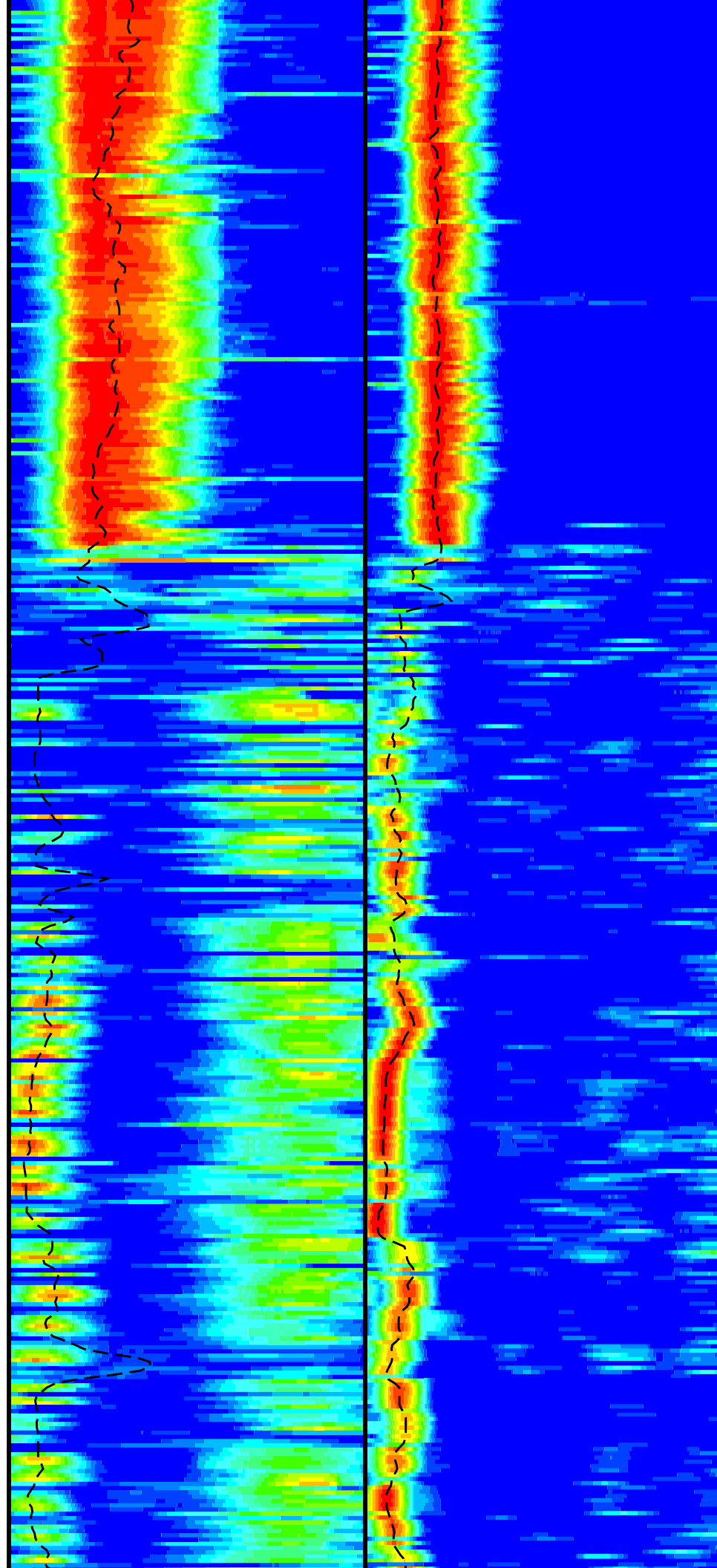




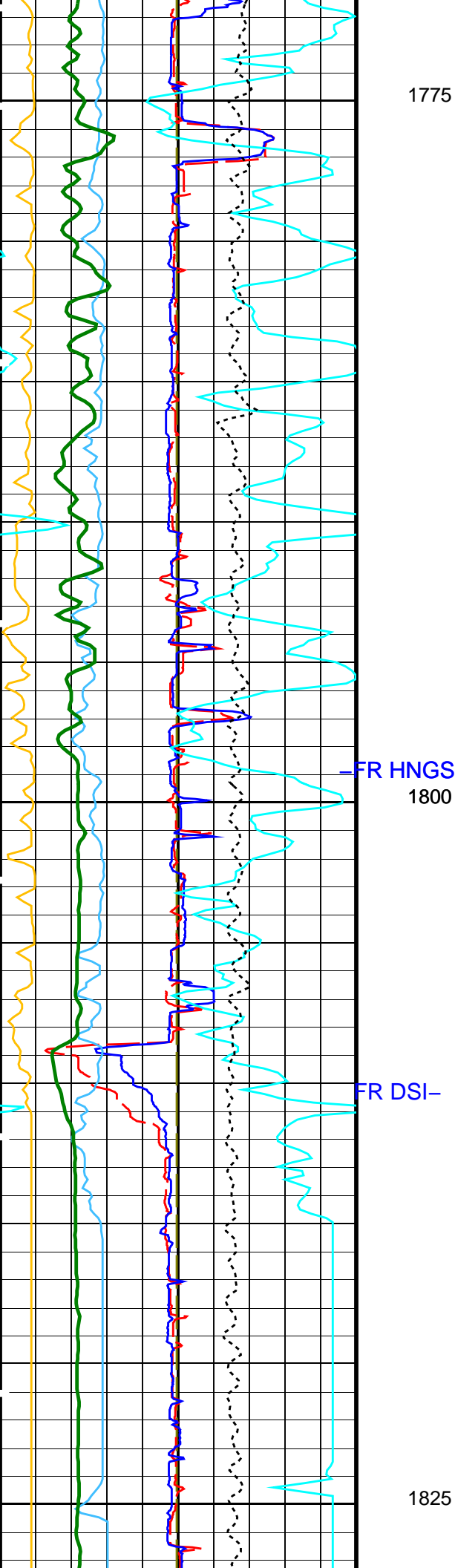
Pipe

1725

1750





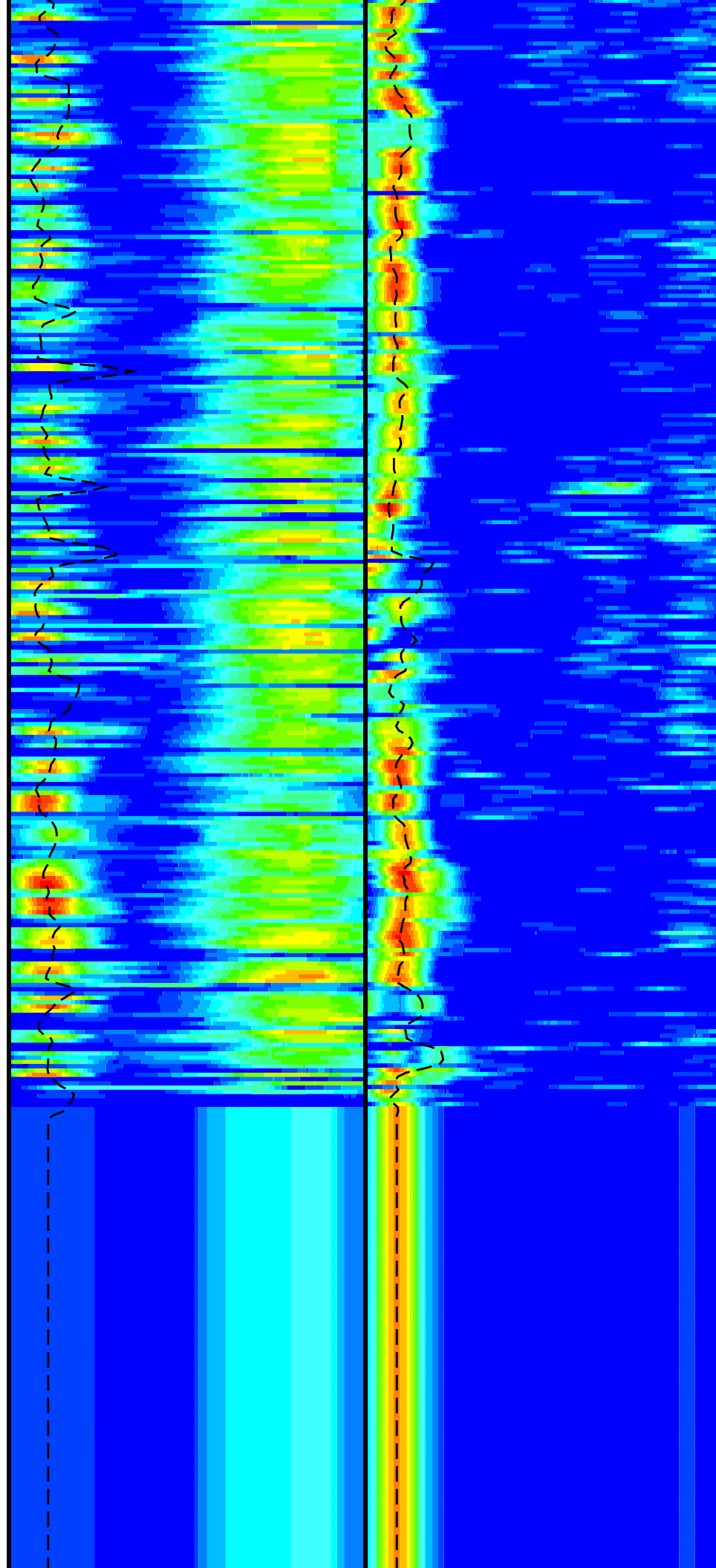


FR HNGS  
1800

FR DSI-

1775

1825





Age Group	Percentage
18-24	~10%
25-34	~35%
35-44	~25%
45-54	~20%
55-64	~15%
65-74	~10%
75-84	~5%
85+	~2%

Delta-T Shear / RA – Lower Dipole			Delta-T Shear / RA – Upper Dipole		
(DT1R)			(DT2R)		
(US/F)			(US/F)		
40		1040	40		1040
Min	Amplitude	Max	Min	Amplitude	Max
Rec.Array L.Dipole Slow Proj. CVDL			Rec.Array U.Dipole Slow Proj. CVDL		
(SPR1)			(SPR2)		
(US/F)			(US/F)		
40		1040	40		1040

PIP SUMMARY

Parameters		
DLIS Name	Description	Value
DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN
DDE1	Digitizing Delay 1	0 US
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	40 US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	440 US/F
DSI1	Digitizer Sample Interval 1	40 US
DSI2	Digitizer Sample Interval 2	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
DWC2	Digitizer Word Count 2	512
DWCX	Digitizer Word Count X	512
GCSE	Generalized Caliper Selection	C1
LTXG	Lower Dipole Transmitter Geometry	156 IN
NWI1	Number Waveform Items 1	8
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
SAM1	DSST Sonic Acquisition Mode 1 – Lower Dipole Mode	LFD_EVEN
SAM2	DSST Sonic Acquisition Mode 2 – Upper Dipole Mode	ODD
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF
SAS1	STC Sonic Array Status – Lower Dipole	255
SAS2	STC Sonic Array Status – Upper Dipole	255
SBO1	STC Search Band Offset – Lower Dipole	3000 US
SBO2	STC Search Band Offset – Upper Dipole	3000 US
SBW1	STC Search Bandwidth – Lower Dipole	8000 US



SBW2	STC Search Bandwidth – Upper Dipole	8000	US
SFC1	STC Formation Character – Lower Dipole	SELECTABLE	
SFC2	STC Formation Character – Upper Dipole	SELECTABLE	
SFM1	STC Filter – Lower Dipole	B.3–1.5K	
SFM2	STC Filter – Upper Dipole	B1–2K	
SLL1	STC Slowness Lower Limit – Lower Dipole	40	US/F
SLL2	STC Slowness Lower Limit – Upper Dipole	40	US/F
SST1	STC Slowness Step – Lower Dipole	4	US/F
SST2	STC Slowness Step – Upper Dipole	4	US/F
SSW1	STC Source Waveform – Lower Dipole	WF_SAM1	
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SUL1	STC Slowness Upper Limit – Lower Dipole	1040	US/F
SUL2	STC Slowness Upper Limit – Upper Dipole	1040	US/F
SWD1	STC Slowness Width – Lower Dipole	40	US/F
SWD2	STC Slowness Width – Upper Dipole	40	US/F
TBF1	STC Time for Baseline Fill – Lower Dipole	0	US
TBF2	STC Time for Baseline Fill – Upper Dipole	0	US
TLL1	STC Time Lower Limit – Lower Dipole	600	US
TLL2	STC Time Lower Limit – Upper Dipole	600	US
TST1	STC Time Step – Lower Dipole	200	US
TST2	STC Time Step – Upper Dipole	200	US
TUL1	STC Time Upper Limit – Lower Dipole	18960	US
TUL2	STC Time Upper Limit – Upper Dipole	18440	US
TWD1	STC Time Width – Lower Dipole	2000	US
TWD2	STC Time Width – Upper Dipole	2000	US
TWI1	STC Integration Time Window – Lower Dipole	1600	US
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
HNGBS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGBS Detector 1 Barite Constant	1	
BAR2	HNGBS Detector 2 Barite Constant	1	
BHK	HNGBS 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	HNGBS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	C1	
H1P	HNGBS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGBS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGBS Borehole Potassium Running Average	–0.0371136	
HALF	HNGBS Alpha Filter Length	60	IN
HCRB	HNGBS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGBS Processing Enable	YES	
S1BI	HNGBS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGBS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGBS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGBS Detector 1 Variable Barite Factor Running Average	0.98426	
VBA2	HNGBS Detector 2 Variable Barite Factor Running Average	1.10509	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: UpperLowerDipole\_40\_1040      Vertical Scale: 1:200      Graphics File Created: 20–Aug–2020 04:21

## OP System Version: 19C0–187

MEST–B	19C0–187	DTA–A_8453	19C0–187
DSST–B	19C0–187	HNGC–B_304	19C0–187
HNGBS–BA	19C0–187	DTC–H	19C0–187

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_051LUP	FN:64	PRODUCER	16–Aug–2020 00:08	1828.8 M	1510.0 M
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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_078PUP	FN:101	PRODUCER	20–Aug–2020 04:21
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Company: International Ocean Discovery Program      Well: Expedition 384, Site U1555F

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_051LUP	FN:64	PRODUCER	16–Aug–2020 00:08	1828.8 M	1510.0 M
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OP System Version: 19C0-187

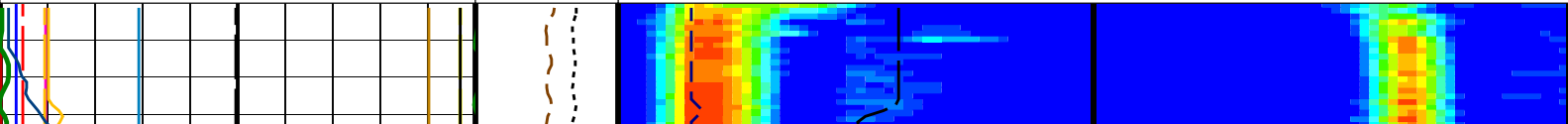
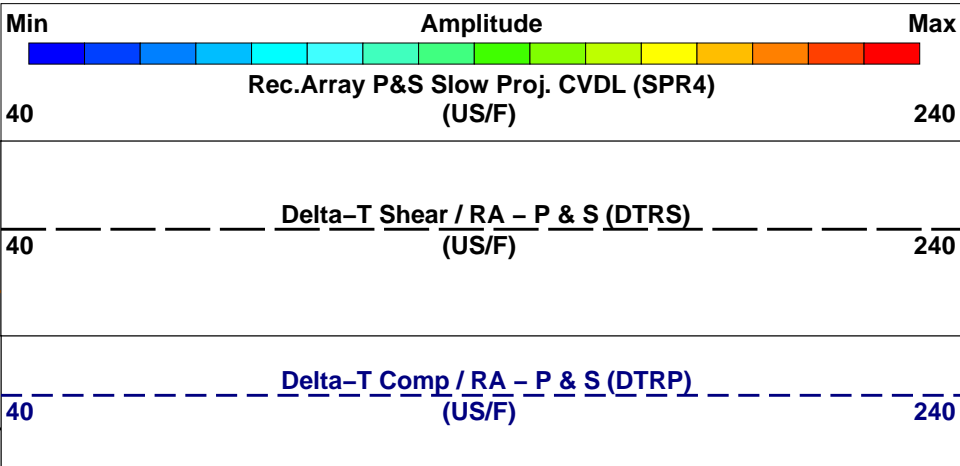
MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

PIP SUMMARY

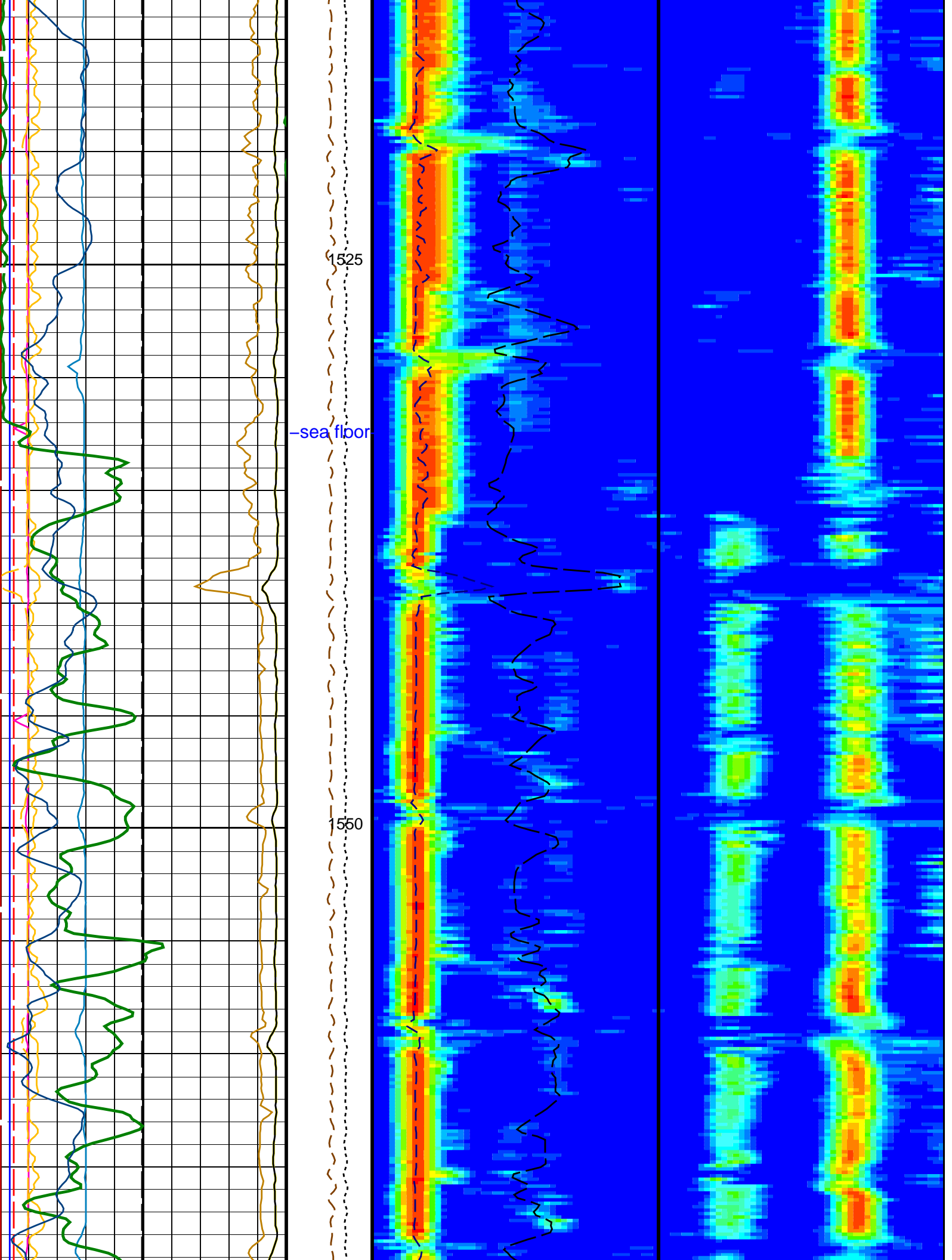
Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	25
Waveform Data Copy Indicator 4 - Monopole P&S (WCI4)		
0	(----	10
Peak Coherence / RA - P & S Shear (CHRS)		
-1	(----	9
Peak Coherence / RA - P & S Comp (CHRP)		
0	(----	10
Peak Coherence / TA - Upper Dipole (CHT2)		
-2	(----	8
Peak Coherence / RA - Upper Dipole (CHR2)		
0	(----	10
Poisson's Ratio (PR)		
0	(----	0.5
Sonic Velocity (SVEL)		
1000	(M/S)	6000
Sonde Deviation (SDEVM)		
0	(DEG)	10
Poisson's Ratio (PR)		
0	(----	0.5
Caliper 1 (C1)		
0	(IN)	20
Caliper 2 (C2)		
0	(IN)	20
Bit Size (BS)		
0	(IN)	20

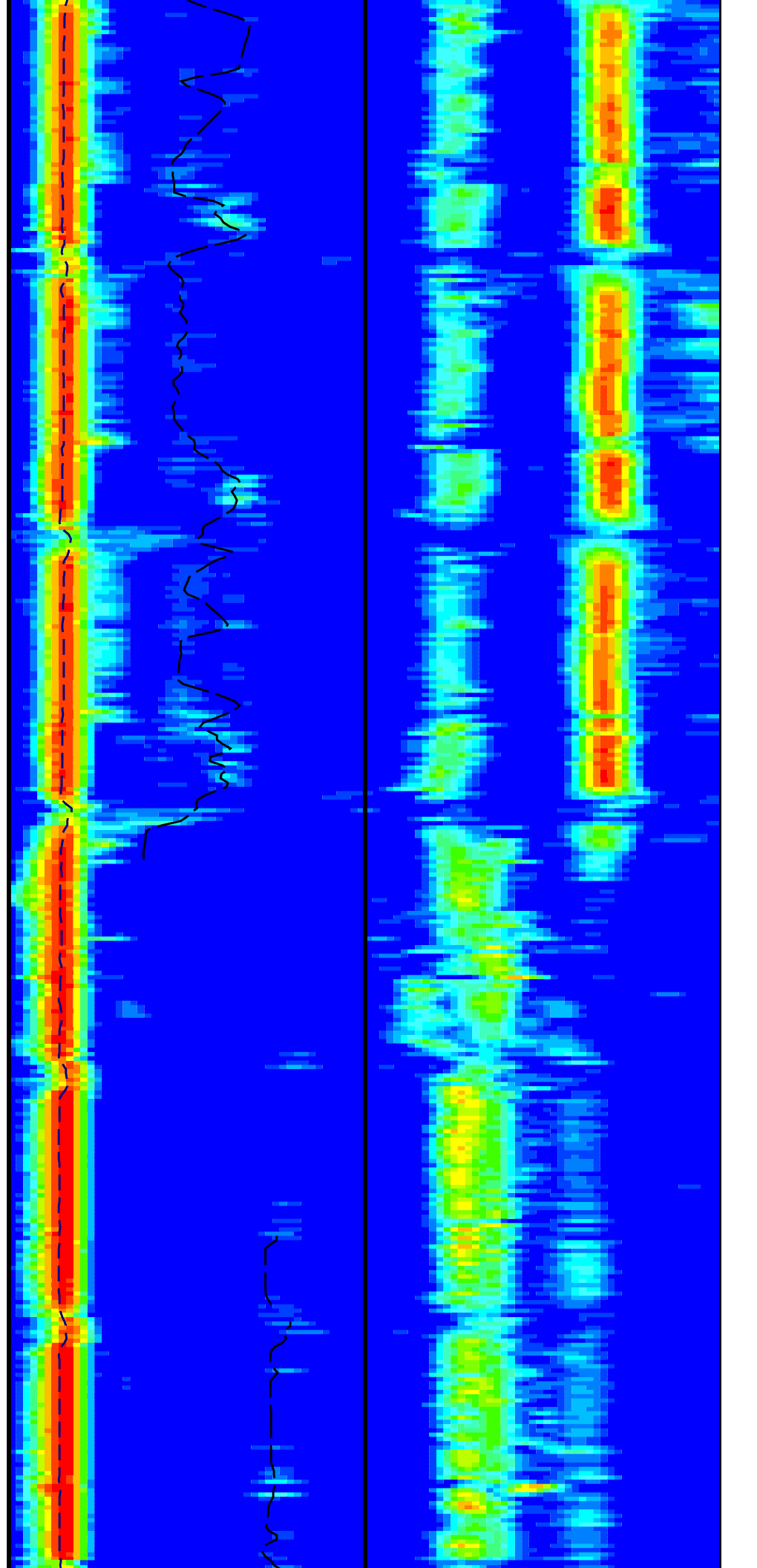
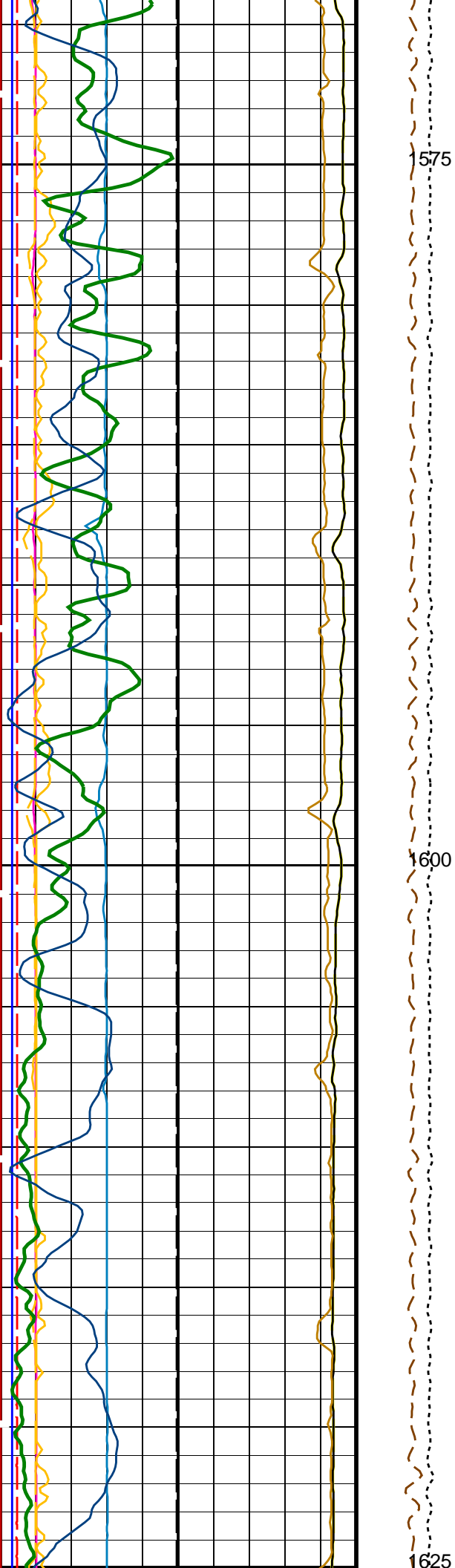
Uplong 2 main log



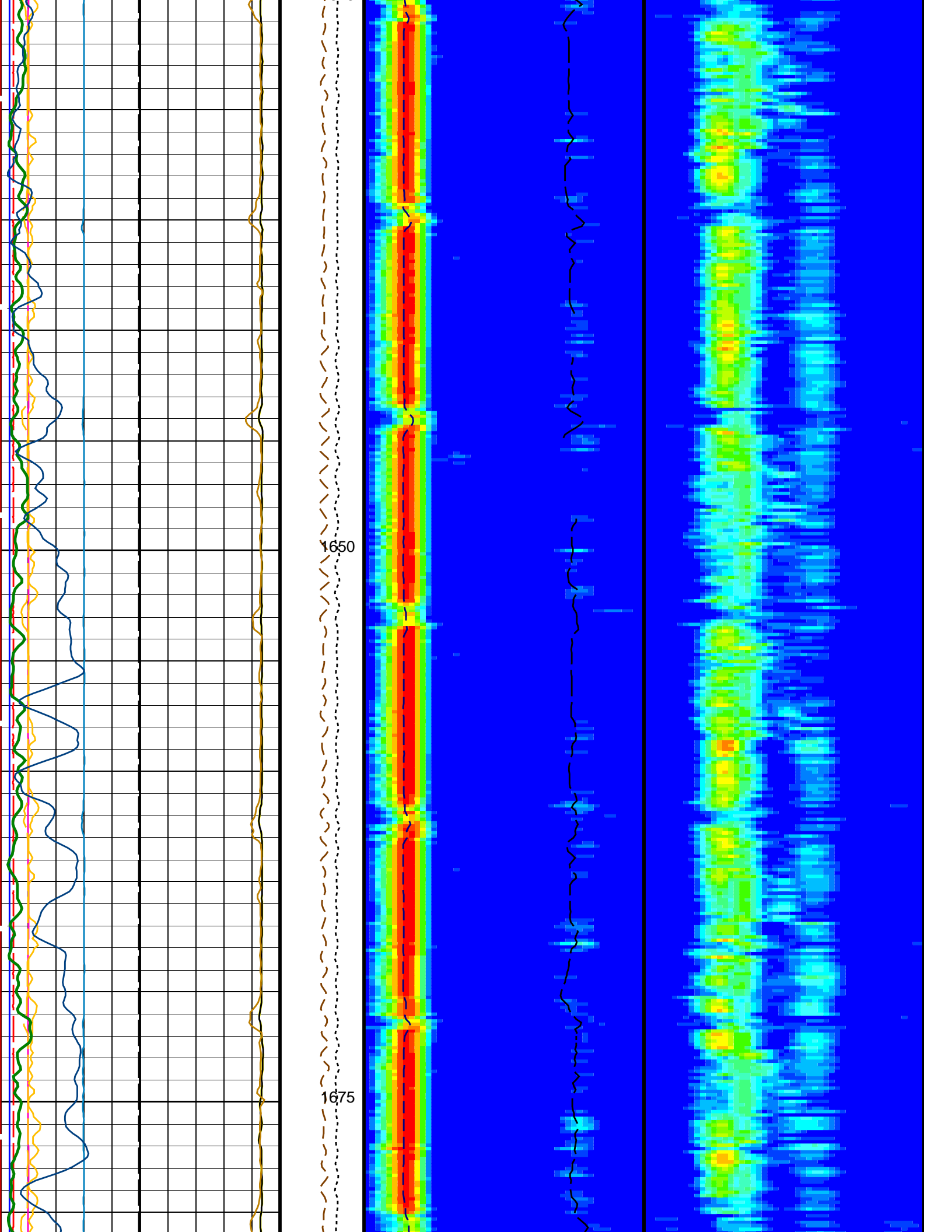




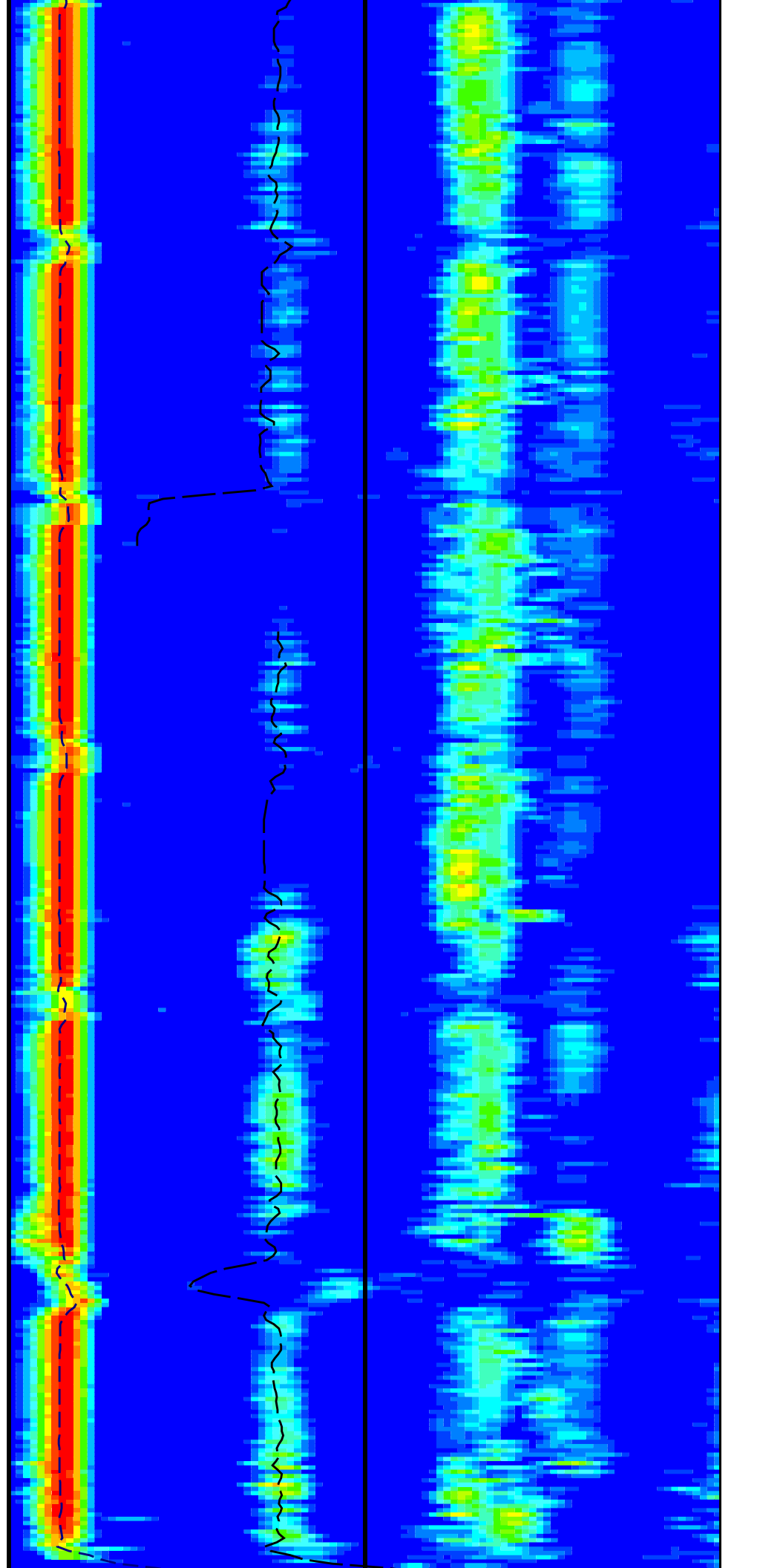
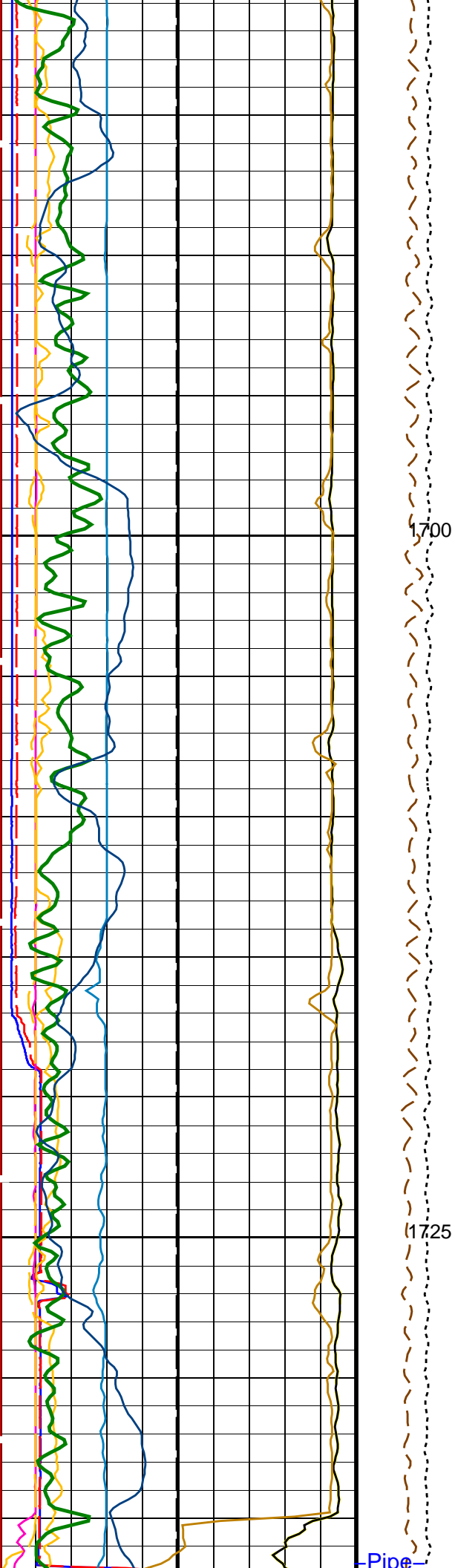




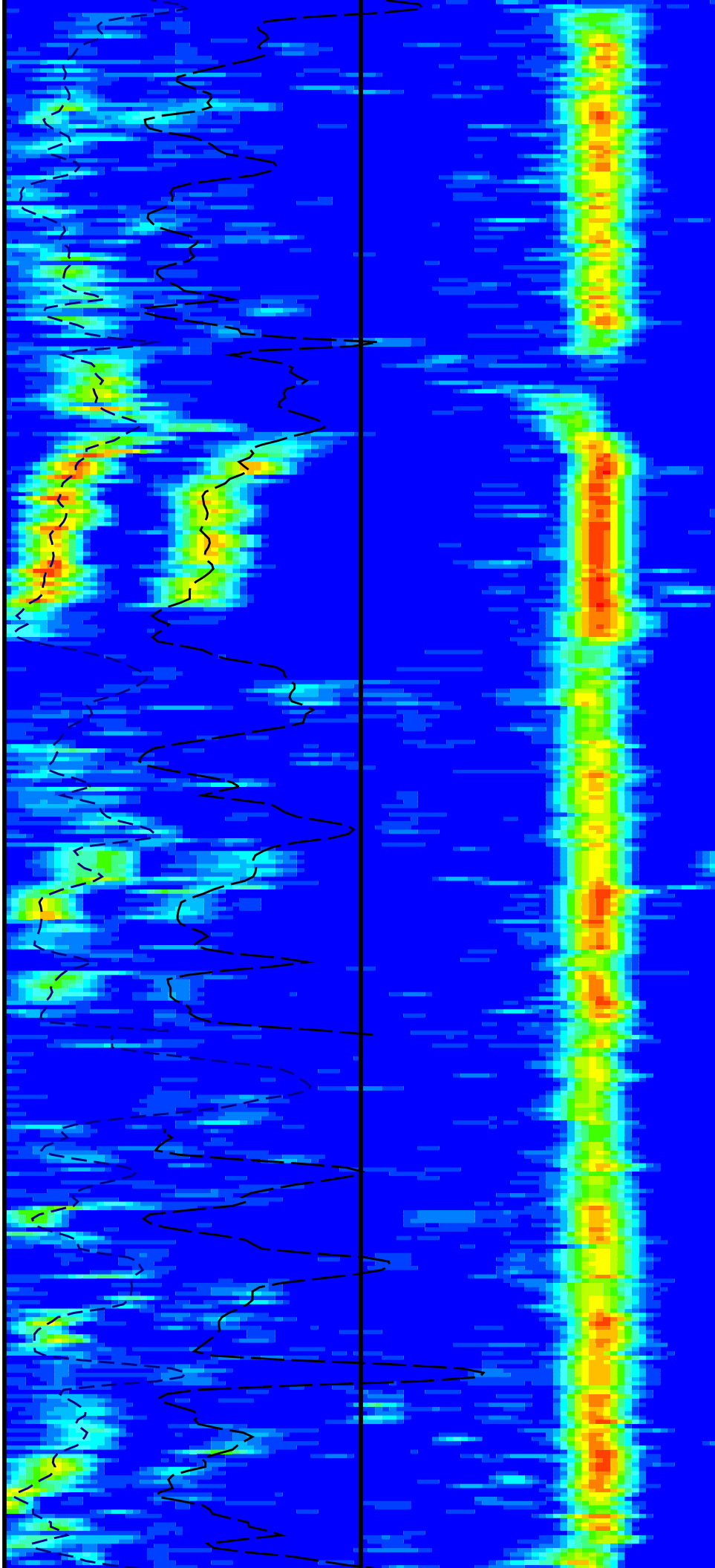
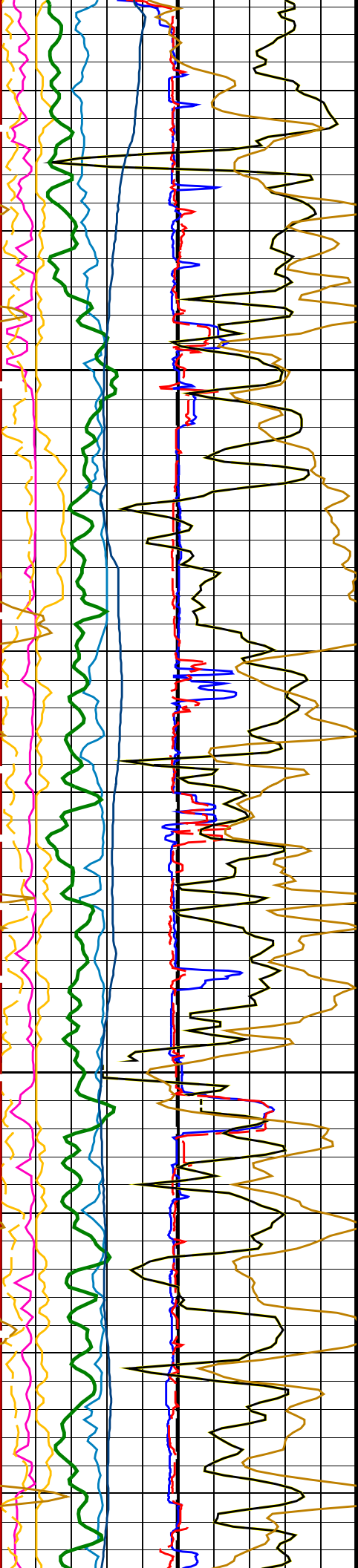




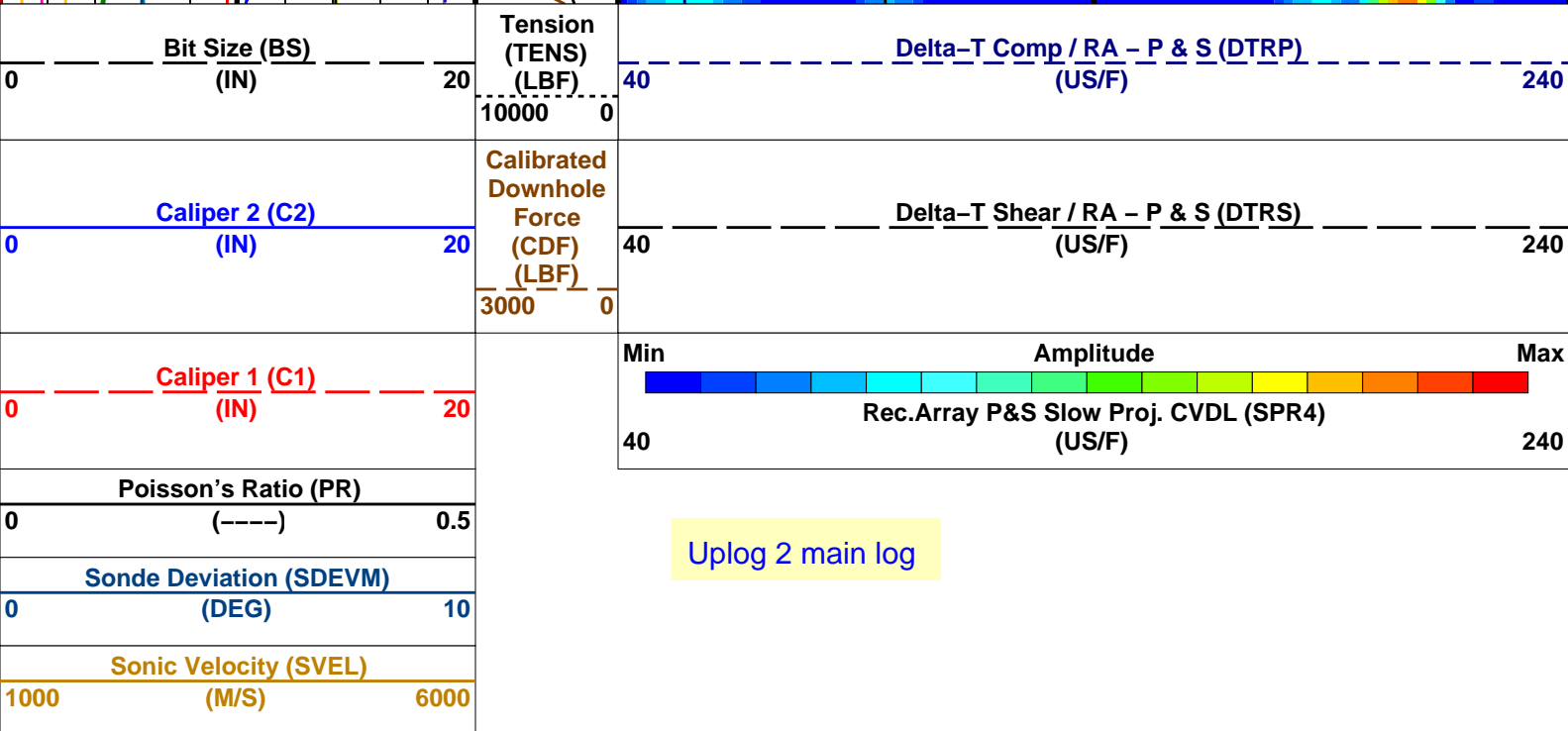
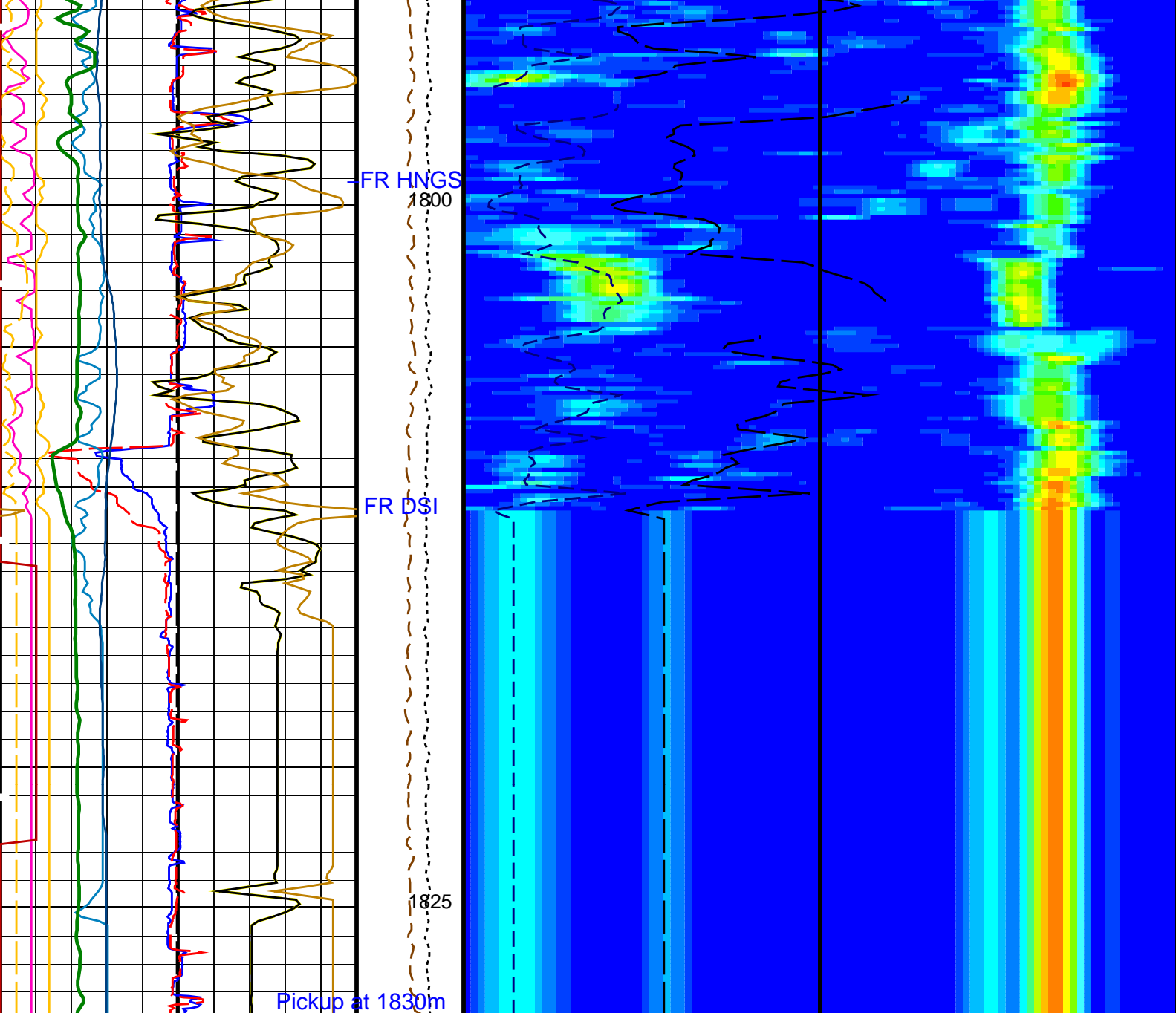














0	Poisson's Ratio (PR) (-----)	0.5
0	Peak Coherence / RA – Upper Dipole (CHR2)	10
0	Peak Coherence / TA – Upper Dipole (CHT2)	10
-2	Peak Coherence / RA – P & S Comp (CHRP)	8
0	Peak Coherence / RA – P & S Shear (CHRS)	10
-1	Waveform Data Copy Indicator 4 – Monopole P&S (WCI4)	9
0	HNGS Spectroscopy Gamma Ray (HSGR)	10
0	(GAPI)	25

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	-14.3039	DEG
	DSST-B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN	
CASF	Label Casing Function – Monopole P&S	50	
COLL	Label Slowness Lower Limit – Monopole P&S Compressional	40	US/F
COUL	Label Slowness Upper Limit – Monopole P&S Compressional	180	US/F
DDE4	Digitizing Delay 4	0	US
DDEX	Digitizing Delay X	0	US
DLCS	Label Compressional Source – Dipole Shear	USE	
DSHL	Label Slowness Lower Limit – Dipole Shear	40	US/F
DSHU	Label Slowness Upper Limit – Dipole Shear	440	US/F
DSI4	Digitizer Sample Interval 4	10	US
DSIX	Digitizer Sample Interval X	40	US
DTCS	Compressional Delta-T Source for DTCO Channel	PS_COMP	
DTF	Delta-T Fluid	189	US/F
DTSS	Shear Delta-T Source for DTSM Channel	UPPER_DIPOLE	
DWC4	Digitizer Word Count 4	512	
DWCX	Digitizer Word Count X	512	
FILG	Label Fill Gap Control – Monopole P&S	COMP_SHEAR	
GCSE	Generalized Caliper Selection	C1	
LFC	Label Formation Character – Monopole P&S	DYNAMIC	
MCS	Mean Casing Slowness	57	US/F
MTXG	Monopole Transmitter Geometry	186	IN
NWI2	Number Waveform Items 2	8	
NWI4	Number Waveform Items 4	8	
NWIX	Number Waveform Items X	0	
RSMN	Label Shear/Compressional Minimum Ratio – Monopole P&S	1.4	
RSMX	Label Shear/Compressional Maximum Ratio – Monopole P&S	2.12	
RX1G	Receiver 1 Geometry	294	IN
RX2G	Receiver 2 Geometry	300	IN
RX3G	Receiver 3 Geometry	306	IN
RX4G	Receiver 4 Geometry	312	IN
RX5G	Receiver 5 Geometry	318	IN
RX6G	Receiver 6 Geometry	324	IN
RX7G	Receiver 7 Geometry	330	IN
RX8G	Receiver 8 Geometry	336	IN
SAM4	DSST Sonic Acquisition Mode 4 – Monopole Mode for P&S	EVEN	
SAMX	DSST Sonic Acquisition Mode X – Both Dipoles or Monopole Mode for Expert	OFF	
SAS2	STC Sonic Array Status – Upper Dipole	255	
SAS4	STC Sonic Array Status – Monopole P&S	255	



SBO4	STC Search Band Offset – Monopole P&S	500	US
SBR4	STC Baseline Removal – Monopole P&S	ON	
SBW4	STC Search Bandwidth – Monopole P&S	2000	US
SFC4	STC Formation Character – Monopole P&S	SELECTABLE	
SFM4	STC Filter – Monopole P&S	B3–20K	
SHLL	Label Slowness Lower Limit – Monopole P&S Shear	75	US/F
SHUL	Label Slowness Upper Limit – Monopole P&S Shear	180	US/F
SLL4	STC Slowness Lower Limit – Monopole P&S	40	US/F
SST4	STC Slowness Step – Monopole P&S	2	US/F
SSW2	STC Source Waveform – Upper Dipole	WF_SAM2	
SSW4	STC Source Waveform – Monopole P&S	WF_SAM4	
STLL	Label Slowness Lower Limit – Monopole Stoneley	180	US/F
STUL	Label Slowness Upper Limit – Monopole Stoneley	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
TWI2	STC Integration Time Window – Upper Dipole	1600	US
TWI4	STC Integration Time Window – Monopole P&S	500	US
TWSX	Transmitter Waveform Select X	0	
UTXG	Upper Dipole Transmitter Geometry	162	IN
WFM4	Waveform Mode 4	W1	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	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	–0.0371136	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	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	0.98426	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.10509	
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\_Only      Vertical Scale: 1:200      Graphics File Created: 20–Aug–2020 04:21

## OP System Version: 19C0–187

MEST–B	19C0–187	DTA–A_8453	19C0–187
DSST–B	19C0–187	HNGC–B_304	19C0–187
HNGS–BA	19C0–187	DTC–H	19C0–187

## Input DLIS Files

DEFAULT	FMS_DSI_NGS_051LUP	FN:64	PRODUCER	16–Aug–2020 00:08	1828.8 M	1510.0 M
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## Output DLIS Files

DEFAULT	FMS_DSI_NGS_078PUP	FN:101	PRODUCER	20–Aug–2020 04:21
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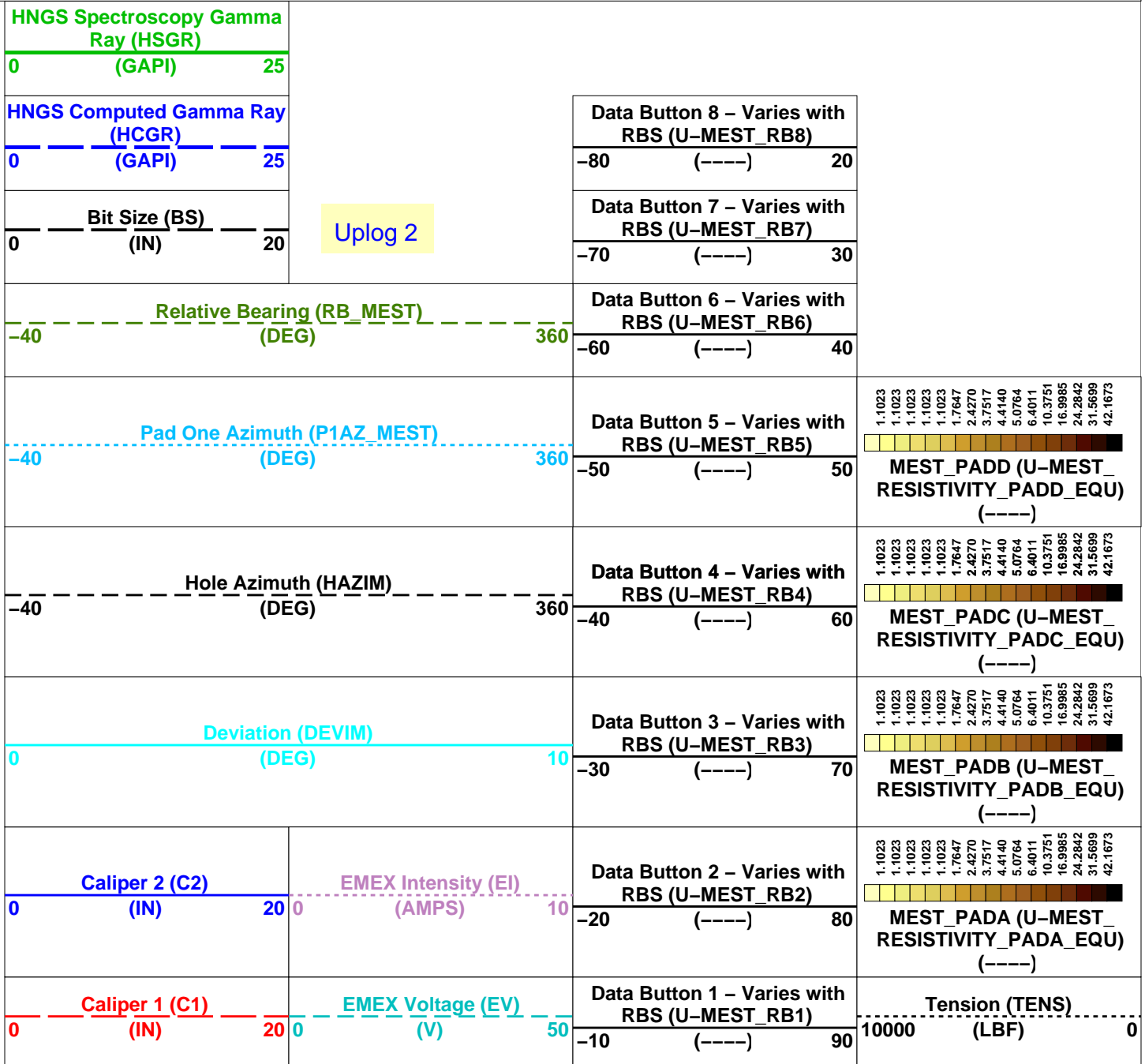
Company: International Ocean Discovery Program      Well: Expedition 384, Site U1555F

## Input DLIS Files

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## Output DLIS Files



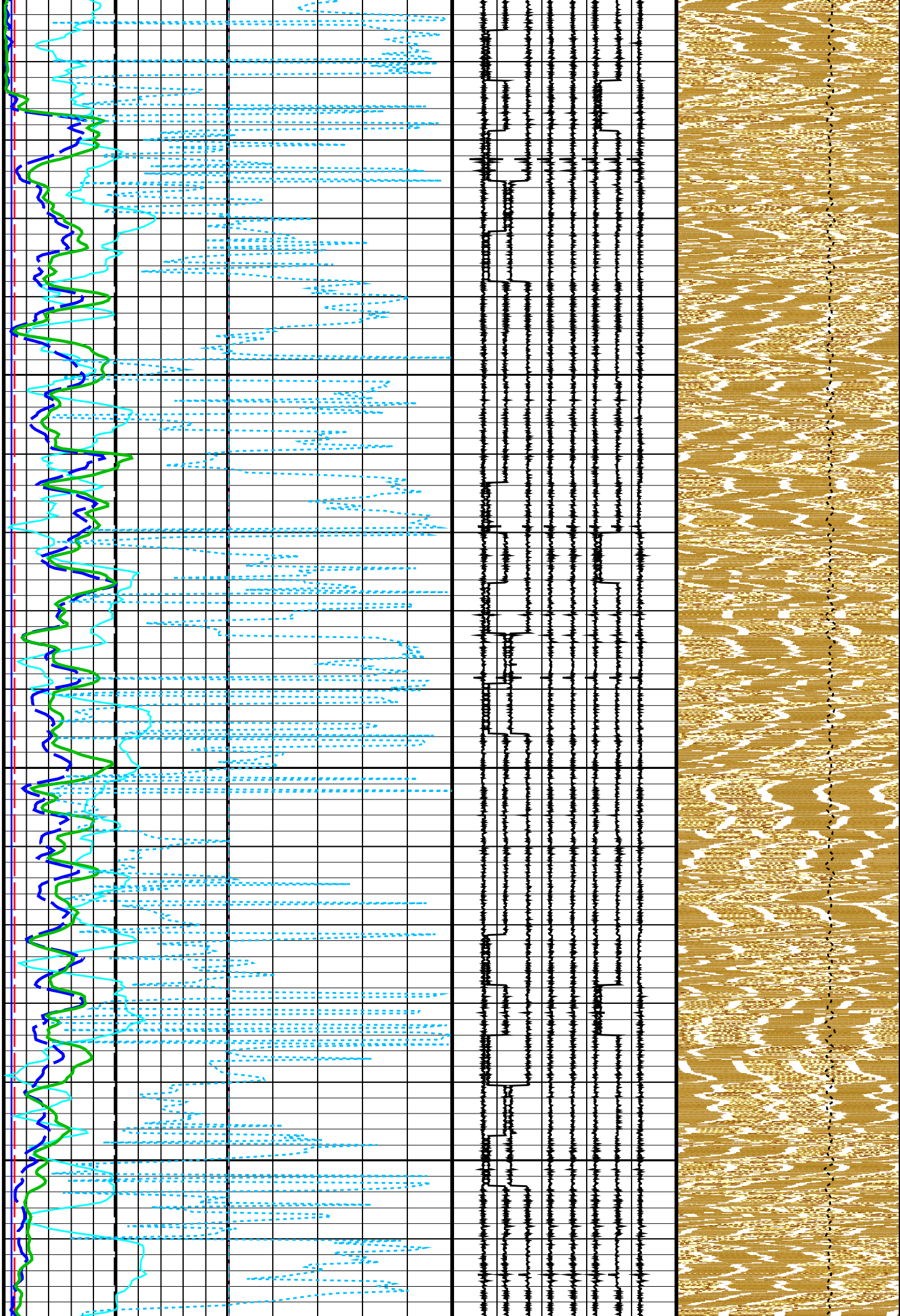




Seafloor

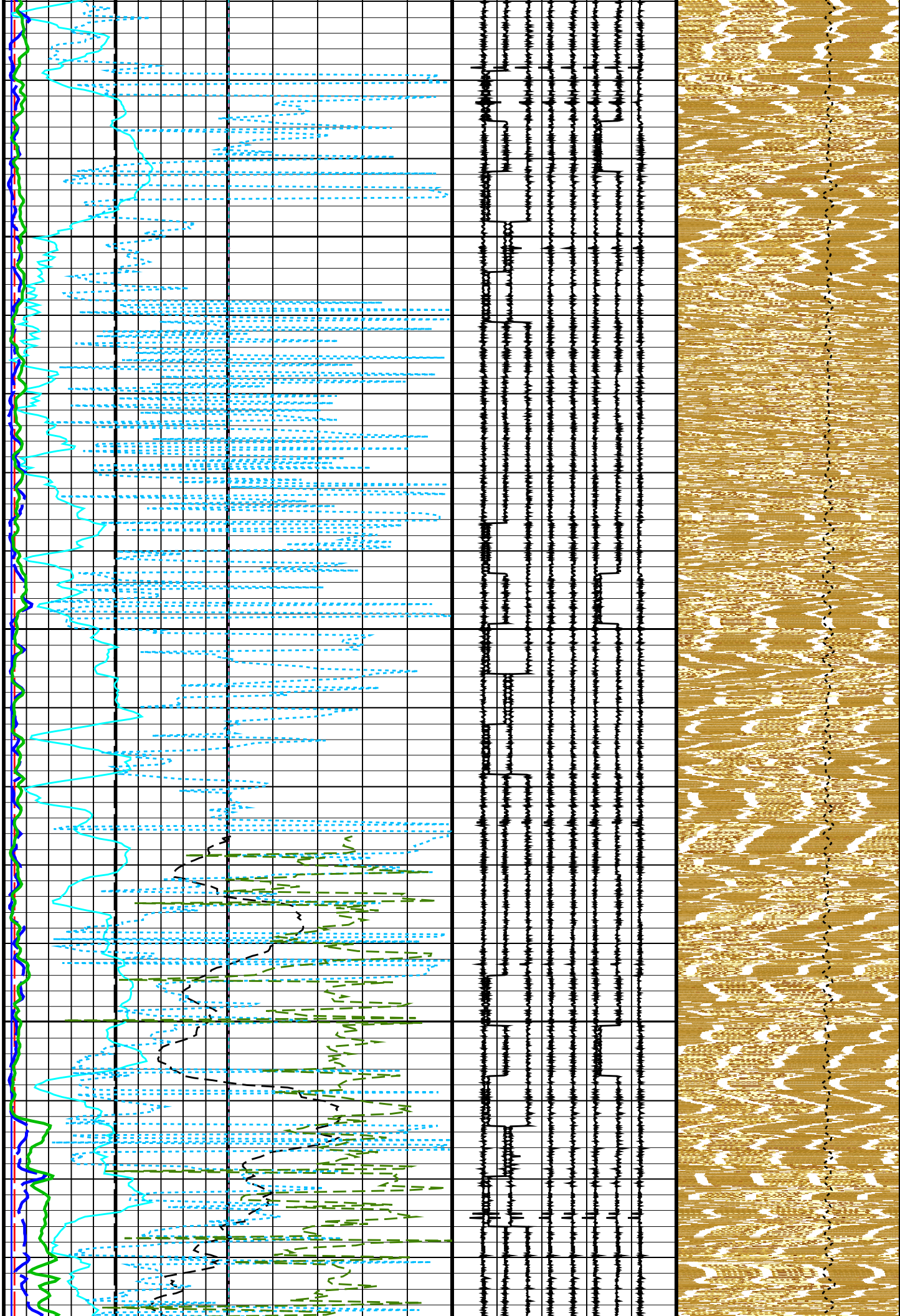
1550

1600

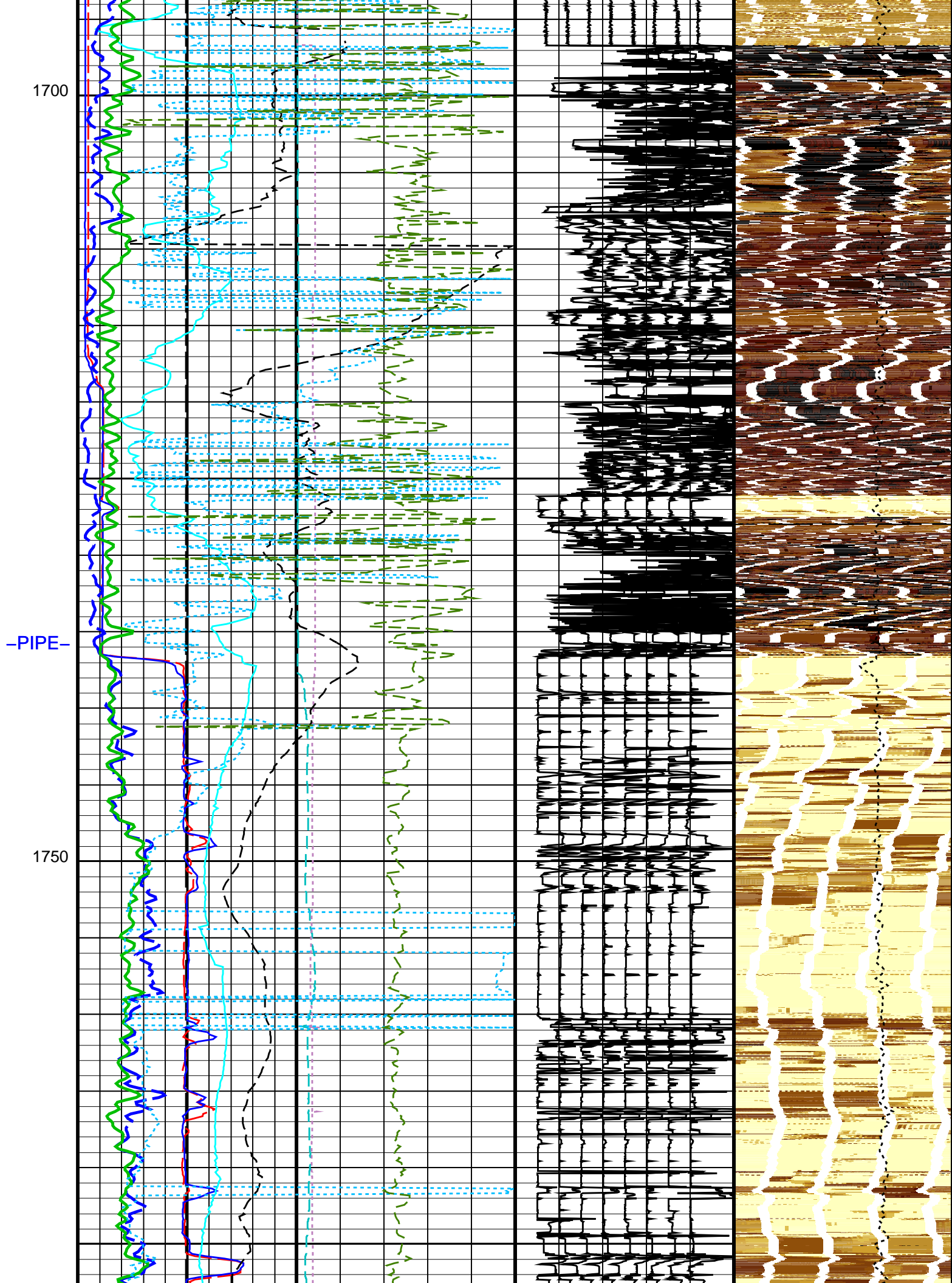




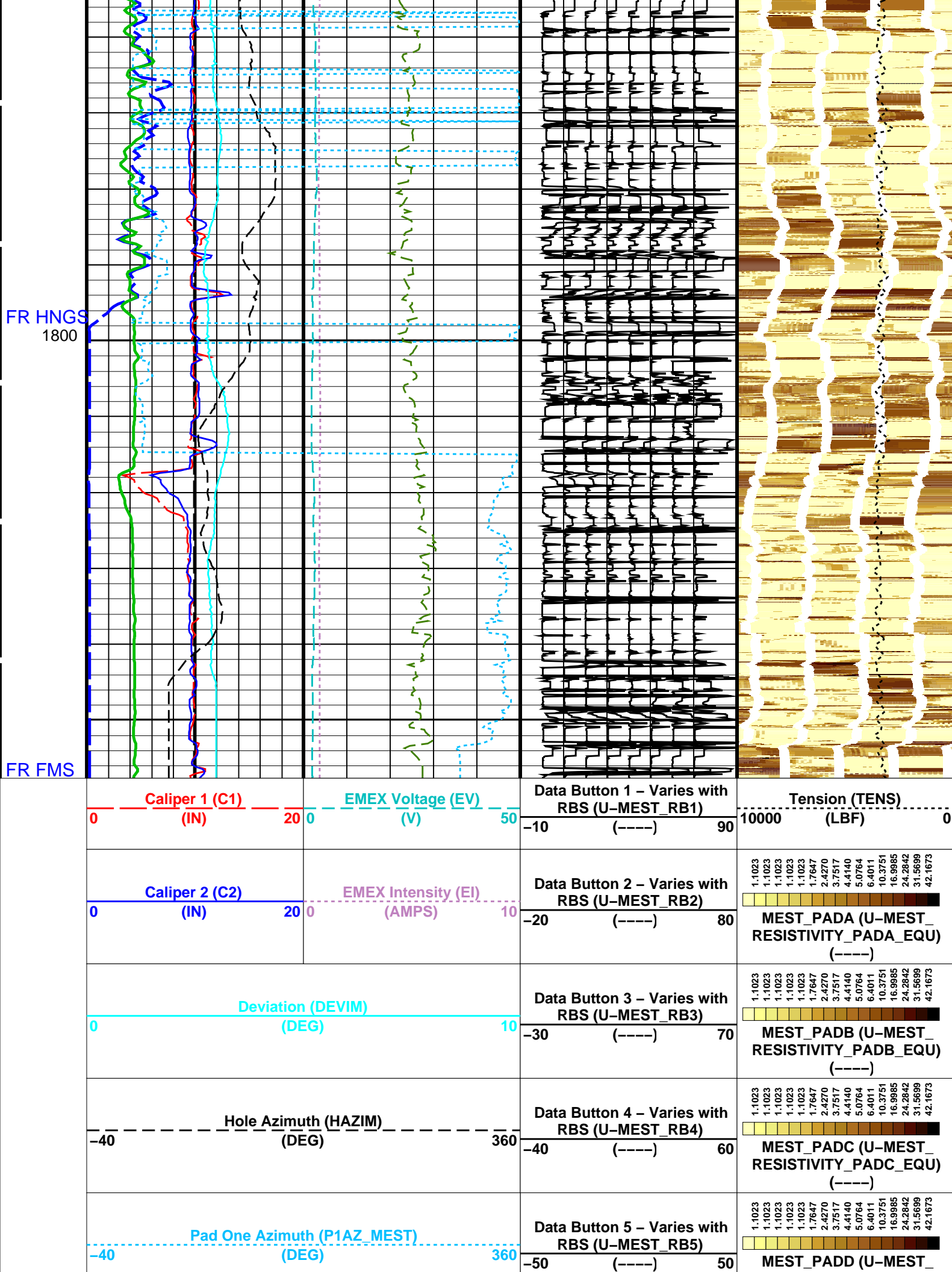
1650













			RESISTIVITY_PADD_EQU (----
Relative Bearing (RB_MEST) (DEG)		Data Button 6 – Varies with RBS (U-MEST_RB6)	
-40	360	-60 (----) 40	
Bit Size (BS) (IN)	Uplog 2	Data Button 7 – Varies with RBS (U-MEST_RB7)	
0 20		-70 (----) 30	
HNGS Computed Gamma Ray (HCGR)		Data Button 8 – Varies with RBS (U-MEST_RB8)	
0 (GAPI) 25		-80 (----) 20	
HNGS Spectroscopy Gamma Ray (HSGR)			
0 (GAPI) 25			

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	-14.3039	DEG
MLM	MEST Logging Mode	SCAN1800	
RBS	Resistivity Button Selection	AUTO	
XGAI	Gain	GAIN_2	
XOFF	Offset	OFFSET_0	
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	-0.0371136	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	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	0.98426	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.10509	
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: 1:300	Graphics File Created: 20-Aug-2020 04:21
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OP System Version: 19C0-187			
MEST-B	19C0-187	DTA-A_8453	19C0-187
DSST-B	19C0-187	HNGC-B_304	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

Input DLIS Files					
DEFAULT	FMS_DSI_NGS_051LUP	FN:64	PRODUCER	16-Aug-2020 00:08	1828.8 M 1510.0 M



# Output DLIS Files

DEFAULT

FMS\_DSI\_NGS\_078PUP

FN:101

PRODUCER

20-Aug-2020 04:21

## Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: 10-Aug-2020 18:20							
Caliper 1 Zero Measurement	12.00	N/A	12.71	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.58	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.61	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.43	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 15-Aug-2020 21:54							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 15-Aug-2020 21:54							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 2-Aug-2020 16:46 Before: 2-Aug-2020 16:56							
Na 511 Peak Loc	40.00	39.57	39.62	N/A	N/A	1.000	
Na 511 Peak Res	15.50	14.49	14.71	N/A	N/A	2.000	%
High Voltage	1150	1173	1176	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.2	143.1	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.558	10.26	N/A	N/A	2.000	%
Temperature	15.50	15.76	15.76	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	15.12	14.94	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 2-Aug-2020 16:46 Before: 2-Aug-2020 16:56							
Na 511 Peak Loc	40.00	39.82	39.66	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.60	15.04	N/A	N/A	2.000	%
High Voltage	1150	1099	1097	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	140.9	141.0	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.446	8.426	N/A	N/A	2.000	%
Temperature	15.50	16.38	16.32	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	15.19	15.10	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 2-Aug-2020 16:46 Before: 2-Aug-2020 16:56							
Coincidence Count Rate Ratio	1.000	0.9991	0.9882	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration							
Master: 2-Aug-2020 16:35							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.6	--	--	--	--	
Th Peak Res	7.000	7.209	--	--	--	--	%
Background Count Rate	142.5	25.01	--	--	--	--	CPS
Gain Ratio	1.000	1.017	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration							
Master: 2-Aug-2020 16:35							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	207.0	--	--	--	--	
Th Peak Res	7.000	7.050	--	--	--	--	%
Background Count Rate	142.5	22.81	--	--	--	--	CPS
Gain Ratio	1.000	0.9897	--	--	--	--	



Primary Equipment:  
MEST Sonde – B  
MEST Preamplifier Cartridge – AB  
GPIT Cartridge – AC  
MEST Acquisition Cartridge – A

MEDS – B 724  
MEPC – AB 806  
GPIC – AC 719  
MEAC – A 804

Auxiliary Equipment:  
MEST-B Preamplifier Cartridge Housing  
MEST Acquisition Cartridge Housing (Slim)

MEPH – A 701  
MEAH – B 769

#### 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  
Gamma Source Radioactive

HNSH – BA 102  
GSR – U 616008

#### Hostile Natural Gamma Ray Sonde Wellsite Calibration

##### Detector 1 Check



Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.57	Master		14.49	Master		1173
Before		39.62	Before		14.71	Before		1176
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.2	Master		8.558	Master		15.76
Before		143.1	Before		10.26	Before		15.76
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		15.12						
Before		14.94						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 2-Aug-2020 16:46			Before: 2-Aug-2020 16:56					

#### Hostile Natural Gamma Ray Sonde Wellsite Calibration






##### Detector 2 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.82	Master		15.60	Master		1099
Before		39.66	Before		15.04	Before		1097
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		140.9	Master		9.446	Master		16.38
Before		141.0	Before		8.426	Before		16.32
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		15.19						
Before		15.10						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							



Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9991
Before		0.9882
	0.9500 (Minimum)      1.000 (Nominal)      1.050 (Maximum)	
Master: 2-Aug-2020 16:46		
Before: 2-Aug-2020 16:56		

Hostile Natural Gamma Ray Sonde Master Calibration														
Detector 1 Calibration														
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value	Phase	Th Peak Res %			Value
Master	<div><div></div></div>			41.00	Master	<div><div></div></div>			211.6	Master	<div><div></div></div>			7.209
38.00 (Minimum)      40.00 (Nominal)      43.00 (Maximum)					201.0 (Minimum)      209.6 (Nominal)      218.3 (Maximum)					5.000 (Minimum)      7.000 (Nominal)      9.000 (Maximum)				
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value					
Master	<div><div></div></div>			25.01	Master	<div><div></div></div>			1.017					
10.00 (Minimum)      142.5 (Nominal)      265.0 (Maximum)					0.9400 (Minimum)      1.000 (Nominal)      1.060 (Maximum)									
Master: 2-Aug-2020 16:35														

Hostile Natural Gamma Ray Sonde Master Calibration														
Detector 2 Calibration														
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value	Phase	Th Peak Res %			Value
Master				41.00	Master				207.0	Master				7.050
38.00 (Minimum)40.00 (Nominal)43.00 (Maximum)					201.0 (Minimum)209.6 (Nominal)218.3 (Maximum)					5.000 (Minimum)7.000 (Nominal)9.000 (Maximum)				
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value					
Master				22.81	Master				0.9897					
10.00 (Minimum)142.5 (Nominal)265.0 (Maximum)					0.9400 (Minimum)1.000 (Nominal)1.060 (Maximum)									
Master: 2-Aug-2020 16:35														

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



Formation Micro Scanner (FMS)  
Hostile Natural Gamma Sonde (HNGS)  
Dipole Sonic Imager (DSI)