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OTHER SERVICES1

- OS1: FMS/DSI
- OS2: HNGS/HLDS
- OS3: HRLA/MSS
- OS4: VSI

REMARKS: RUN NUMBER 1

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

Drill pipe set at 2160.7 mbrf.

Fluid type was seawater 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.

TD not tagged to avoid damage to fragile sub.




Sub stalling due to hole conditons below 2240mbrf.

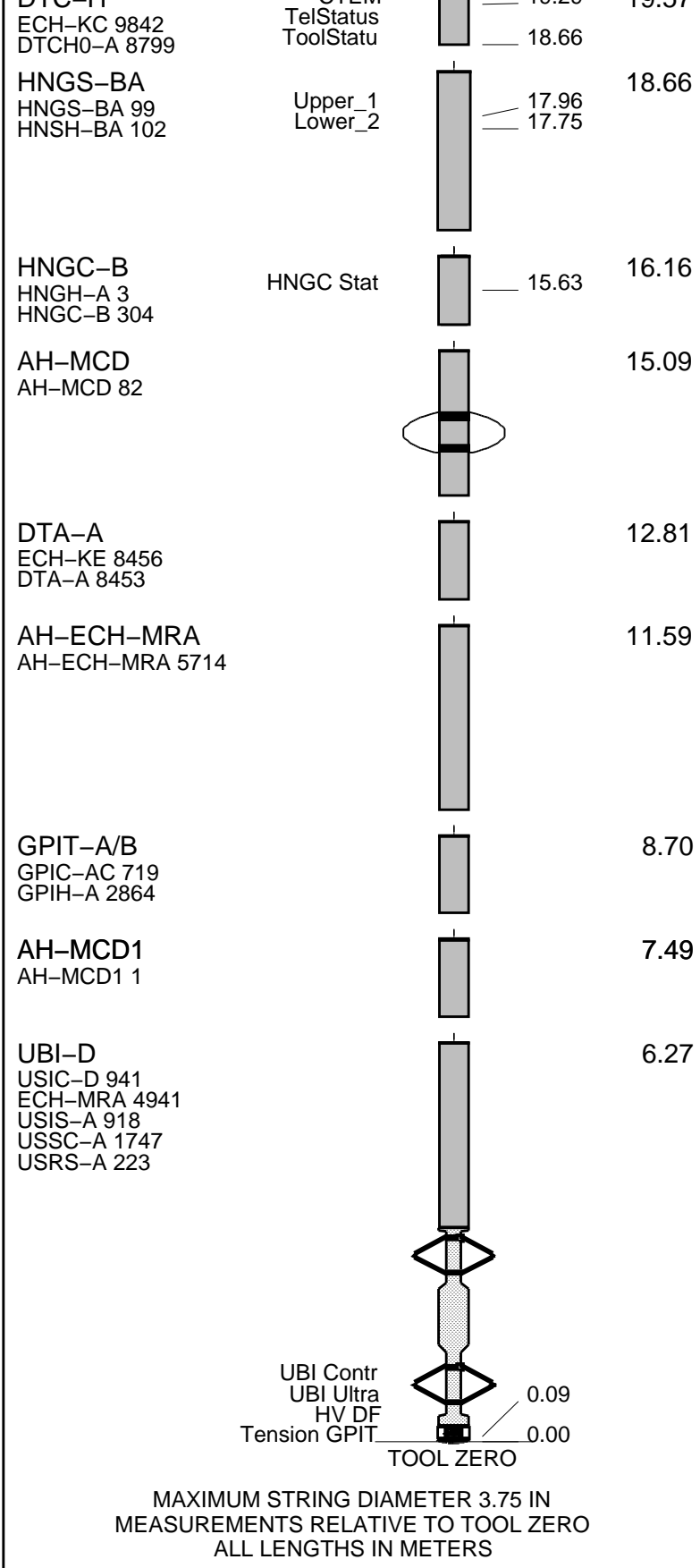
Downlog flipped and note the caliper closed logging down.

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

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT		SURFACE EQUIPMENT	
GSR-U 6098			
WITM (DTS)-A			

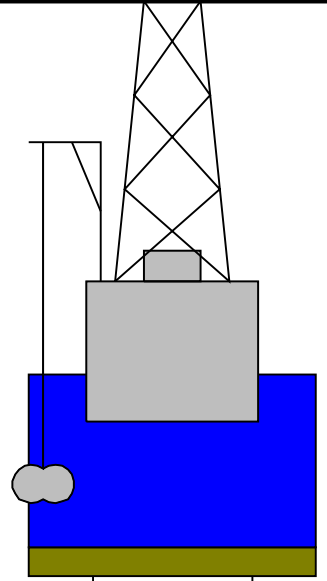
RUN 1		RUN 2	
DOWNHOLE EQUIPMENT		DOWNHOLE EQUIPMENT	
LEH-QT		20.90	
LEH-QT 301			
AH-369		20.01	
DTC-H		19.29	19.57
CTEM			



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

Kelly Bushing Elevation  
 Derrick Floor Elevation  
 Mean Sea Level  
 Seismic Gun depth below MSL

0.0  
 0.0  
 11.1  
 6.0



0.0 5.500 4.125



2110.3 9.875  
 2160.7 5.500 4.125  
 2292.0 9.875

Sea Floor  
 Pipe  
 Driller's TD

**Schlumberger**

**Downlog**

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1566A

**Input DLIS Files**

DEFAULT	Flip_UBI_NGS_040LUP	PRODUCER	21-Aug-2021 13:07	2249.9 M	2082.5 M
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**Output DLIS Files**

DEFAULT	UBI_NGS_042PUP	FN:44	PRODUCER	21-Aug-2021 13:09	2249.9 M	2082.5 M
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**OP System Version: 19C0-187**

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

Time Mark Every 60 S

<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	150
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
Area1 From HCGR to HSGR		
<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	150
<b>Caliper (BS)</b>		
6	(IN)	16
<b>Bit Size (BS)</b>		
6	(IN)	16
<b>HNGS Det.2 Chi Squared (CHI2)</b>		
10	(-----)	0
<b>HNGS Det.1 Chi Squared (CHI1)</b>		
10	(-----)	0

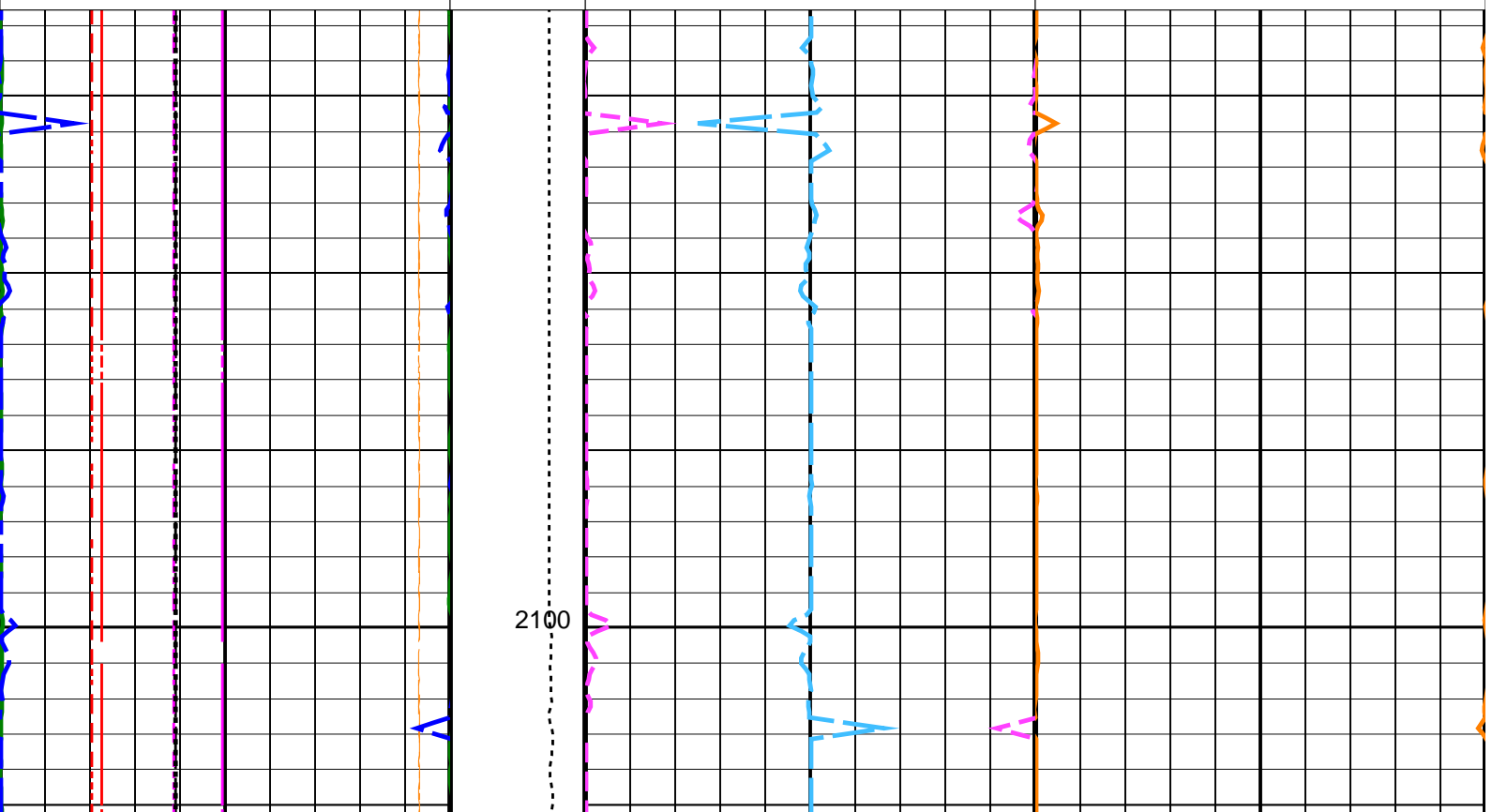
<b>HNGS Borehole Potassium (HBHK)</b>		
-0.05	(V/V)	0.05

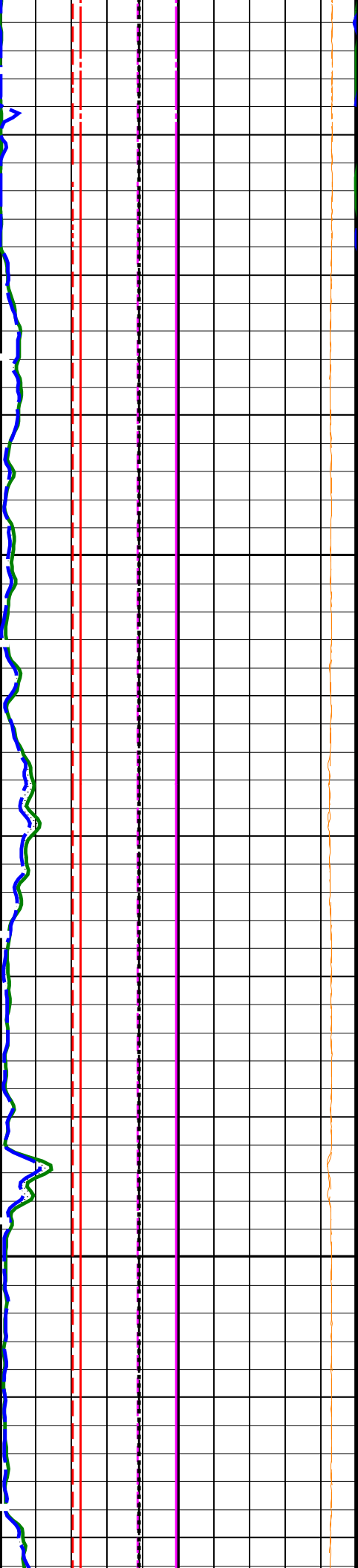
<b>HNGS Uranium (HURA)</b>		
-10	(PPM)	30

<b>HNGS Thorium (HTHO)</b>		
0	(PPM)	30

<b>HNGS Potassium (HFK)</b>		
0	(V/V)	0.1

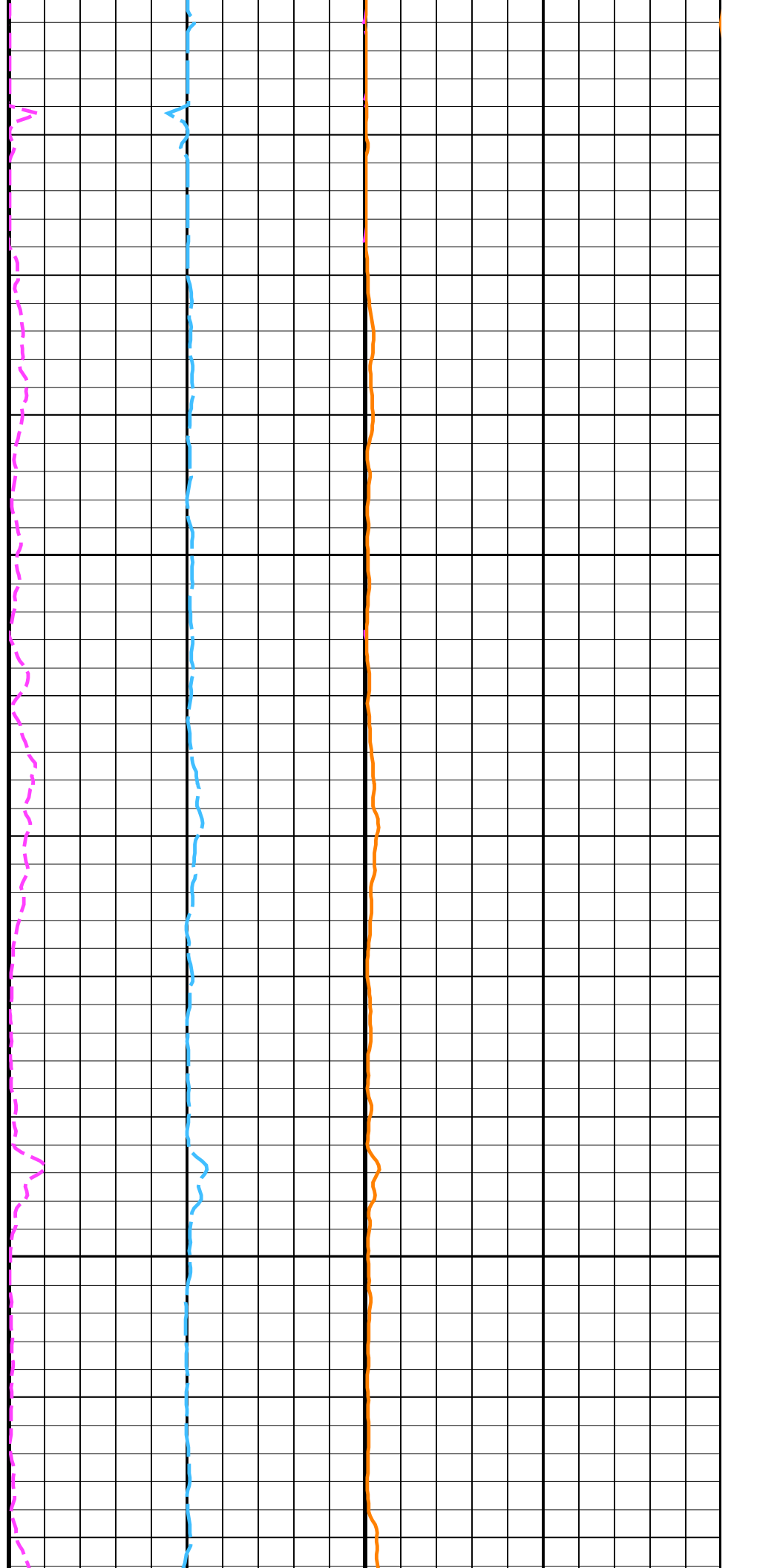
**Tension (TENS) (LBF)**  
10000 0

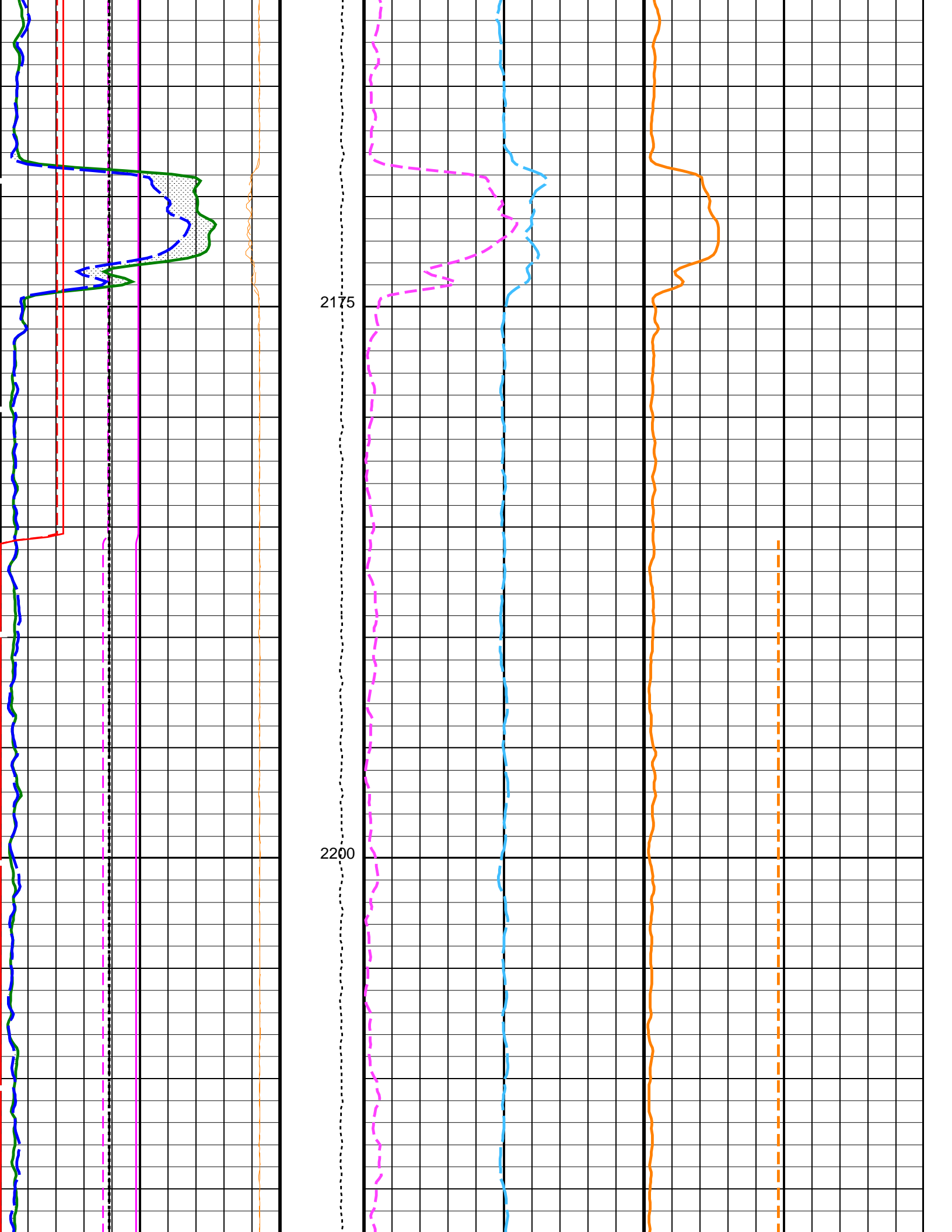




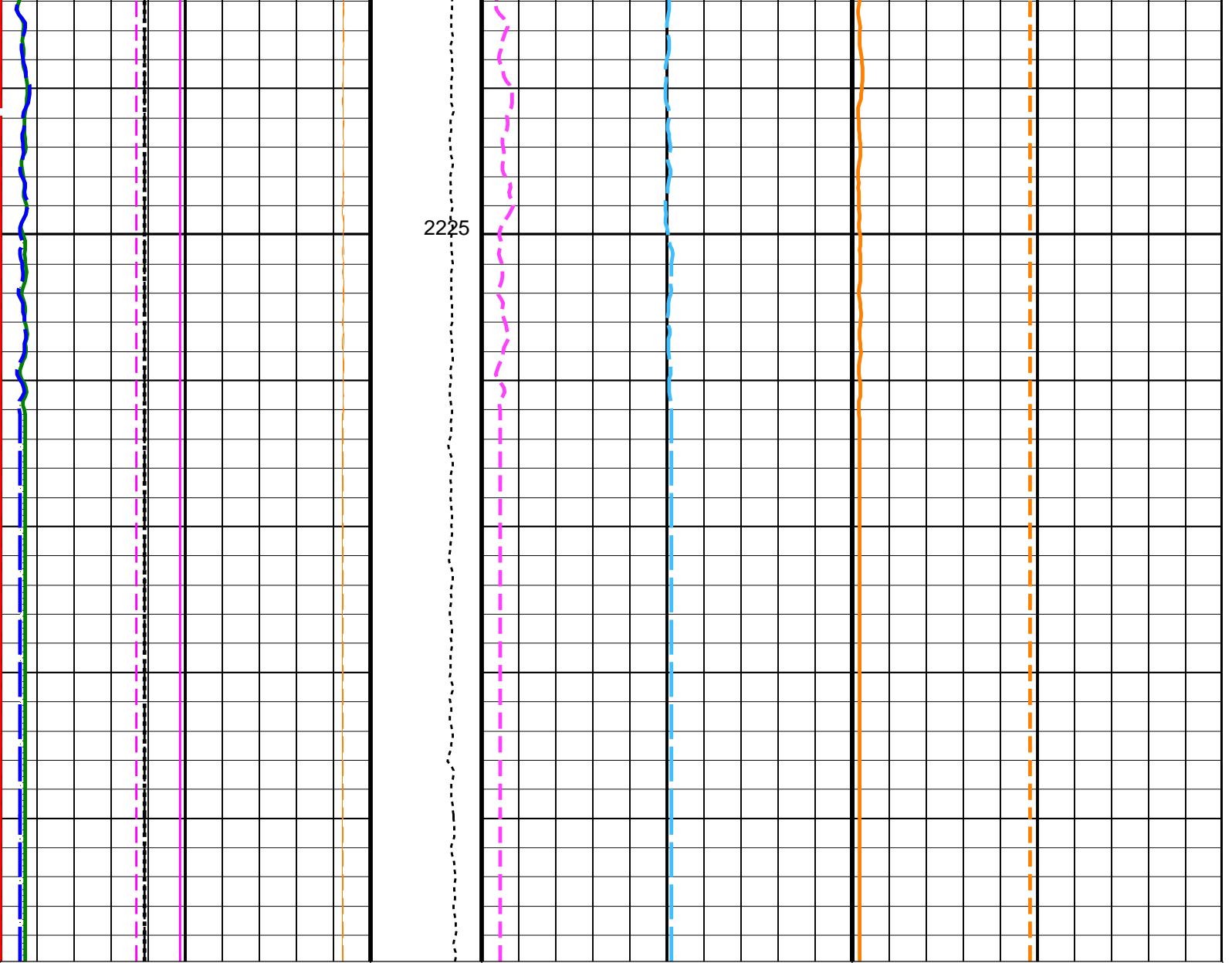
2125

2150









<p><b>HNGS Det.1 Chi Squared (CHI1)</b>          10 (----) 0</p>	<p><b>Tension (TENS) (LBF)</b>          10000 0</p>	<p><b>HNGS Thorium (HTHO) (PPM)</b>          0 30</p>	<p><b>HNGS Potassium (HFK) (V/V)</b>          0 0.1</p>
<p><b>HNGS Det.2 Chi Squared (CHI2)</b>          10 (----) 0</p>	<p><b>HNGS Uranium (HURA) (PPM)</b>          -10 30</p>		
<p><b>Bit Size (BS) (IN)</b>          6 16</p>	<p><b>HNGS Borehole Potassium (HBHK) (V/V)</b>          -0.05 0.05</p>		
<p><b>Caliper (BS) (IN)</b>          6 16</p>	<p><b>HNGS Computed Gamma Ray (HCGR) (GAPI)</b>          0 150</p>		
<p><b>Area1 From HCGR to HSGR</b></p>			
<p><b>HNGS Det.1 Gain Correction Factor (GCF1)</b>          0.9 (----) 1.1</p>			
<p><b>HNGS Det.2 Gain Correction Factor (GCF2)</b>          0.9 (----) 1.1</p>			
<p><b>HNGS Det.1 Resolution Degradation</b></p>			

<b>Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	150

**PIP SUMMARY**

Time Mark Every 60 S

**Parameters**

DLIS Name	Description	Value	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.038074	
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	0.967183	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00774	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 21-Aug-2021 13:09

**OP System Version: 19C0-187**

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

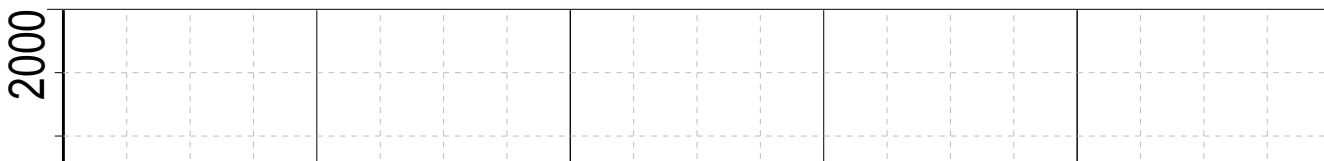
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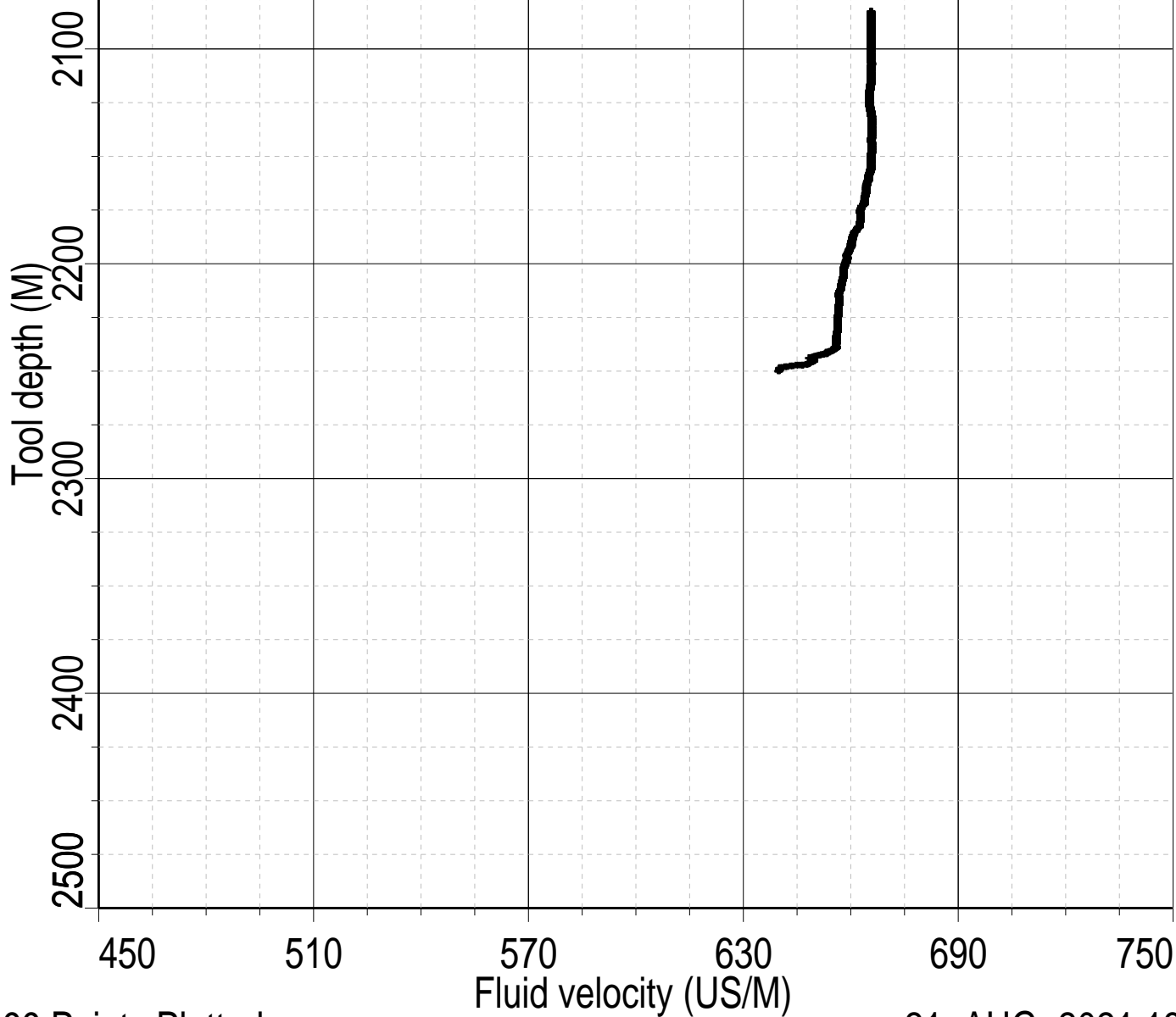
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**Output DLIS Files**

DEFAULT	UBI_NGS_042PUP	FN:44	PRODUCER	21-Aug-2021 13:09
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Index: 2249.9 – 2082.5 M





1099 Points Plotted

21-AUG-2021 13:10

**Schlumberger**

**First Pass**

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1566A

**Output DLIS Files**

DEFAULT	UBI_NGS_036LUP	FN:37	PRODUCER	20-Aug-2021 23:18	2249.4 M	2185.4 M
RTB	UBI_NGS_036LUP	FN:38	PRODUCER	20-Aug-2021 23:18	2249.4 M	2185.4 M

**OP System Version: 19C0-187**

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

Time Mark Every 60 S

<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	150
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(----)	10
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(----)	10
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(----)	1.1
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(----)	1.1
Area1 From HCGR to HSGR		

<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	150
<b>Caliper (BS)</b>		
6	(IN)	16
<b>Bit Size (BS)</b>		
6	(IN)	16

<b>HNGS Borehole Potassium (HBHK)</b>		
-0.05	(V/V)	0.05

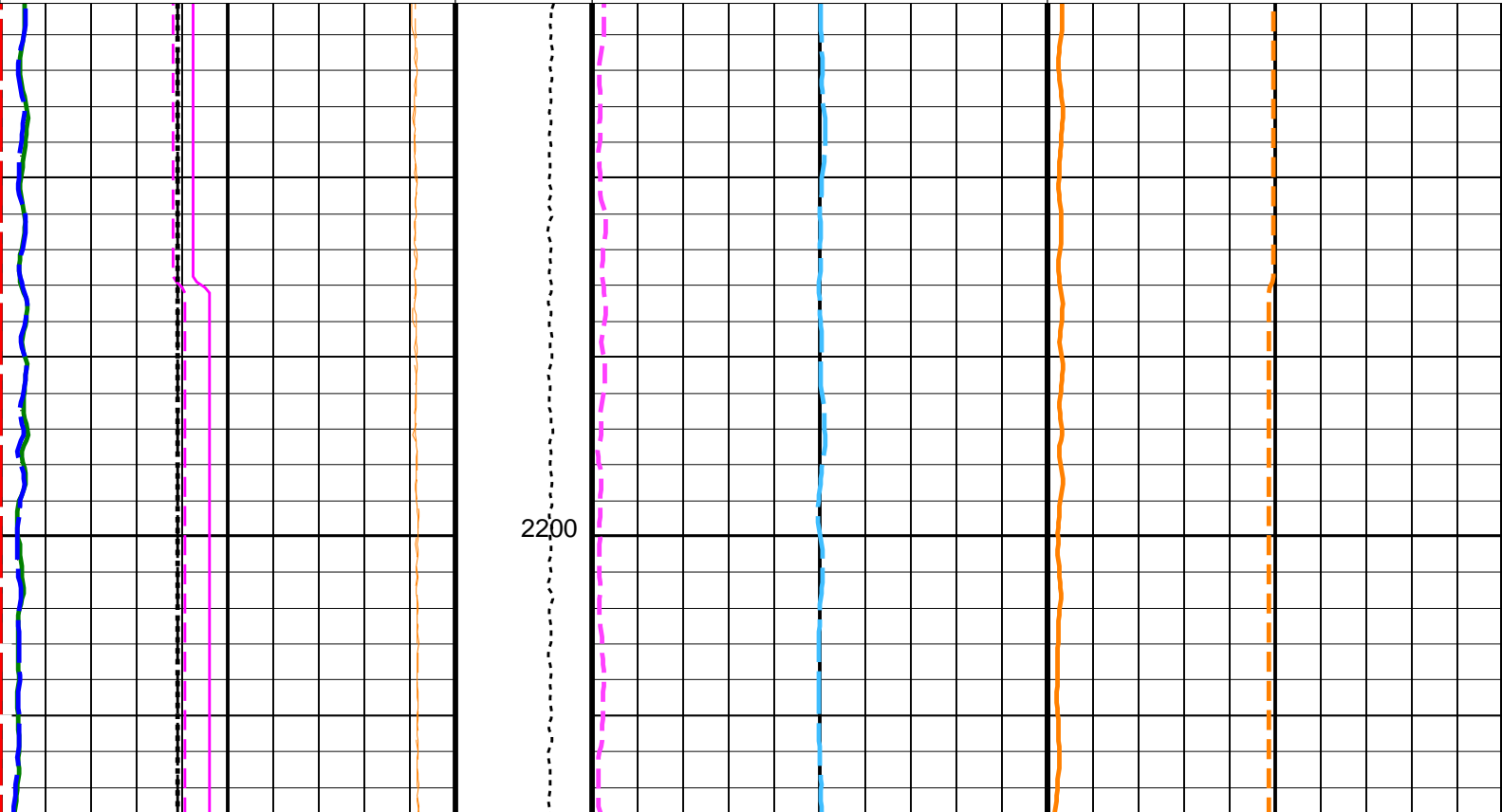
<b>HNGS Det.2 Chi Squared (CHI2)</b>		
10	(----)	0

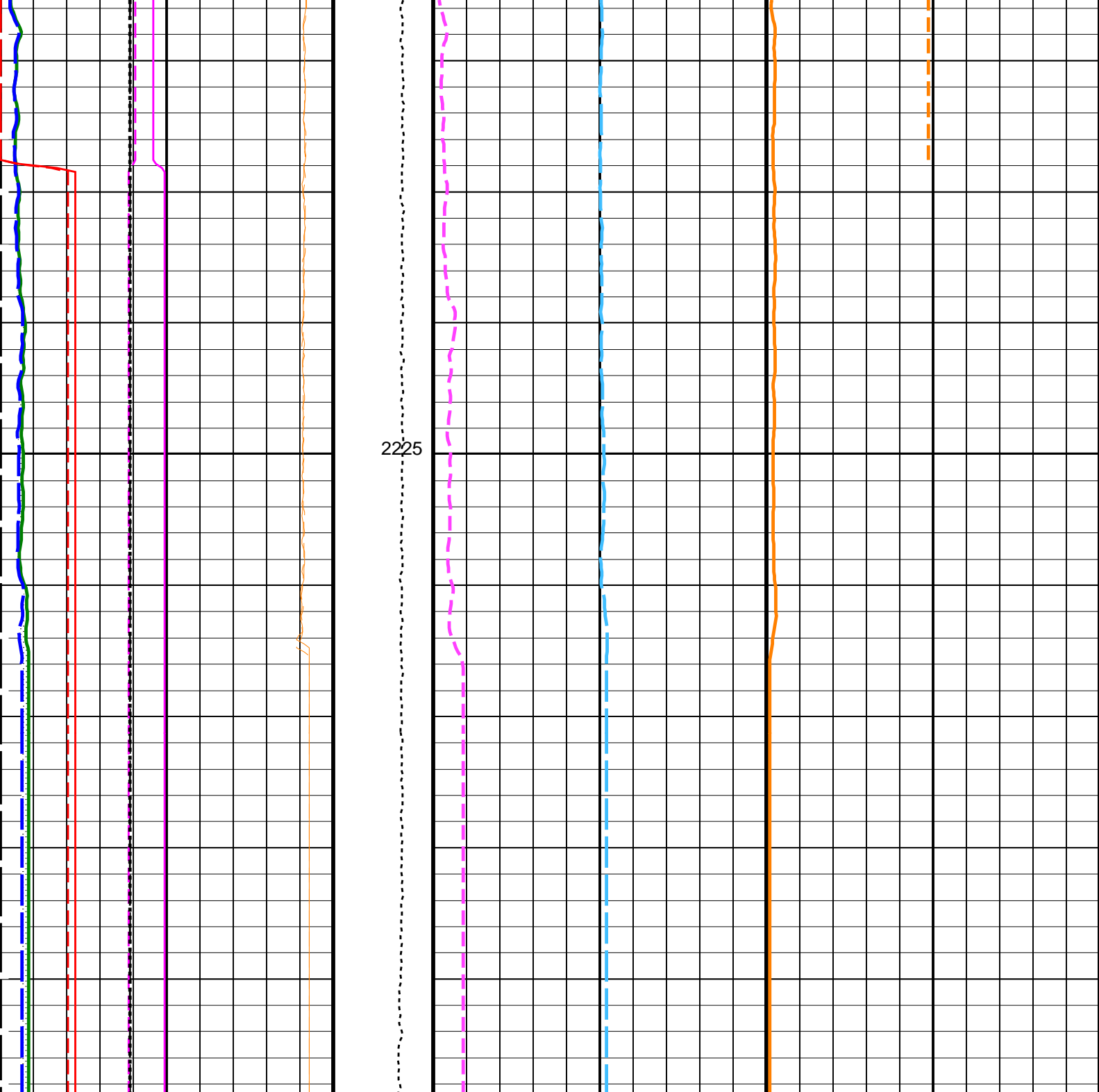
<b>HNGS Uranium (HURA)</b>		
-10	(PPM)	30

<b>HNGS Det.1 Chi Squared (CHI1)</b>		
10	(----)	0

<b>Tension (TENS) (LBF)</b>		
10000	0	

<b>HNGS Thorium (HTHO)</b>		
0	(PPM)	30
<b>HNGS Potassium (HFK)</b>		
0	(V/V)	0.1





2225

<p><b>HNGS Det.1 Chi Squared (CHI1)</b>          10 (----) 0</p>	<p><b>Tension (TENS) (LBF)</b>          10000 0</p>	<p><b>HNGS Thorium (HTHO) (PPM)</b>          0 30</p>	<p><b>HNGS Potassium (HFK) (V/V)</b>          0 0.1</p>
<p><b>HNGS Det.2 Chi Squared (CHI2)</b>          10 (----) 0</p>	<p><b>HNGS Uranium (HURA) (PPM)</b>          -10 30</p>		
<p><b>Bit Size (BS) (IN)</b>          6 16</p>	<p><b>HNGS Borehole Potassium (HBHK) (V/V)</b>          -0.05 0.05</p>		
<p><b>Caliper (BS) (IN)</b>          6 16</p>			
<p><b>HNGS Computed Gamma Ray (HCGR) (GAPI)</b>          0 150</p>			

Area From HCGR to HSGR		
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	150

**PIP SUMMARY**

Time Mark Every 60 S

**Parameters**

DLIS Name	Description	Value
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>		
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	-0.00217031
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	0.999309
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0462
<b>System and Miscellaneous</b>		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.02 G/C3

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 20-Aug-2021 23:18

**OP System Version: 19C0-187**

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

**Output DLIS Files**

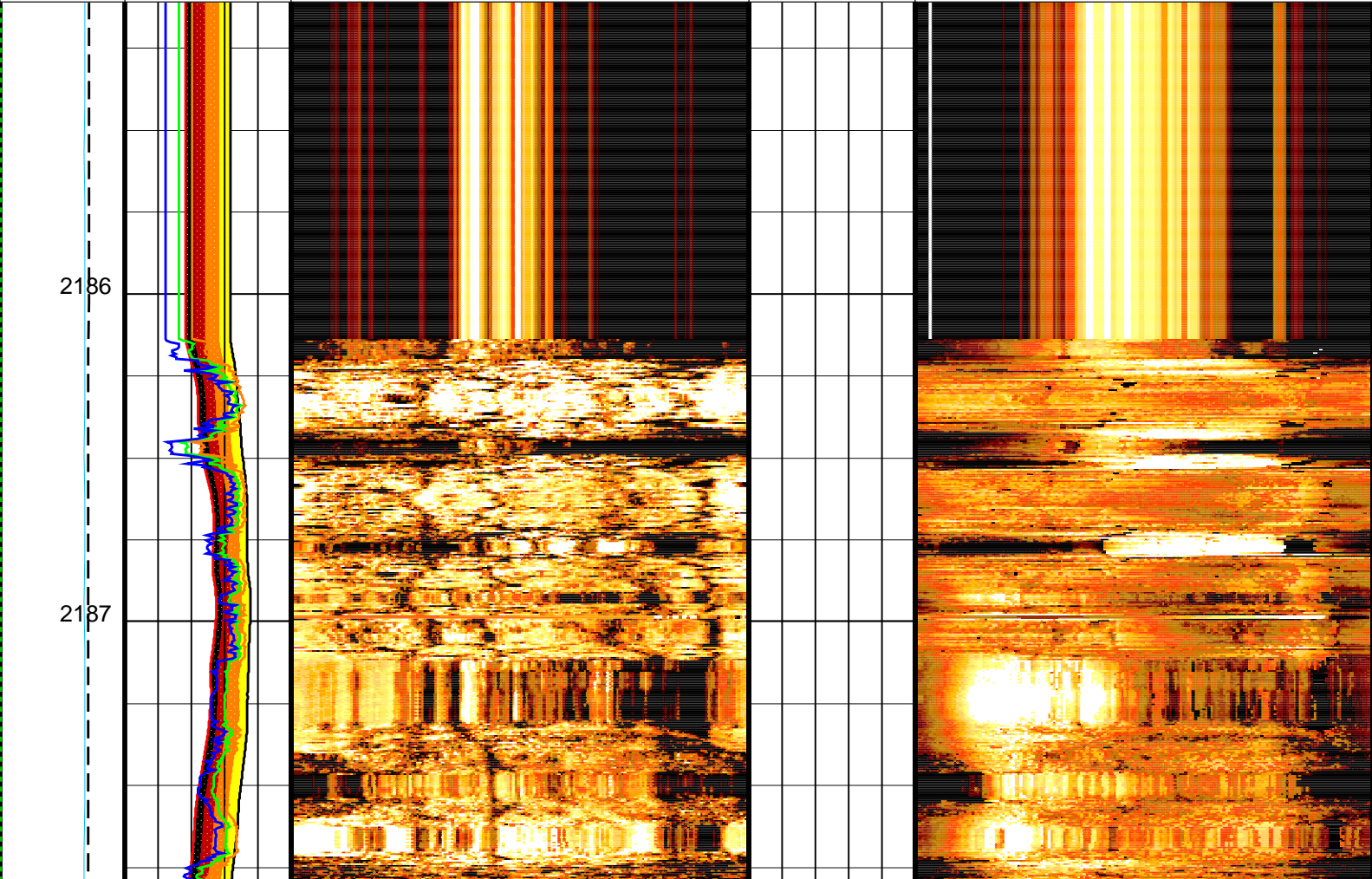
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RTB	UBI_NGS_036LUP	FN:38	PRODUCER	20-Aug-2021 23:18

DEFAULT	UBI_NGS_036LUP	FN:37	PRODUCER	20-Aug-2021 23:18	2249.4 M	2185.4 M
RTB	UBI_NGS_036LUP	FN:38	PRODUCER	20-Aug-2021 23:18	2249.4 M	2185.4 M

### OP System Version: 19C0-187

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

	<b>HIGH Amplitude (FA75)</b> 0 (DB) 50		<b>Radius max (UTMX)</b> 3 (IN) 4.5	
	<b>MEDIAN of Amplitude (FAED)</b> 0 (DB) 50		<b>Radius min (UTMN)</b> 3 (IN) 4.5	
<b>Fluid velocity (CFVL) (US/M)</b> 450 750	<b>Maximum of Amplitude (UAMX)</b> 0 (DB) 50		<b>Radius HIGH (FT75)</b> 3 (IN) 4.5	
<b>Cable Speed (CS) (M/HR)</b> 0 150000	<b>Min. of Amplitude (UAMN)</b> 0 (DB) 50		<b>Radius LOW (FT25)</b> 3 (IN) 4.5	
<b>Rev. speed (RSAV) (RPS)</b> 6 8	<b>LOW Amplitude (FA25)</b> 0 (DB) 50	<b>Corrected Amplitude (AWCN) (DB)</b> -500.0000 to 15.0000	<b>MEDIAN Radius (FTED)</b> 3 (IN) 4.5	<b>Corrected transit time (TTCN) (US)</b> -500.0000 to 15.0000



2188

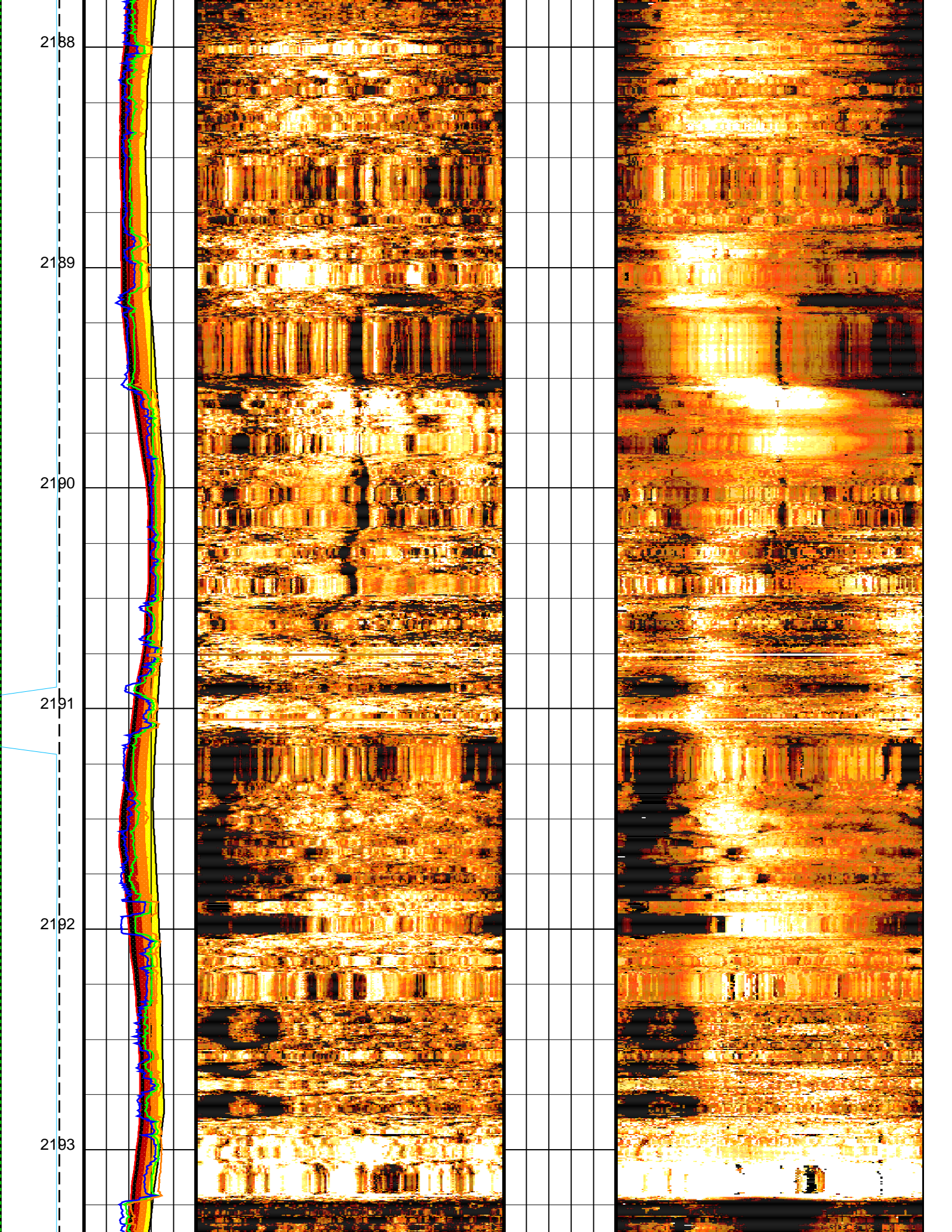
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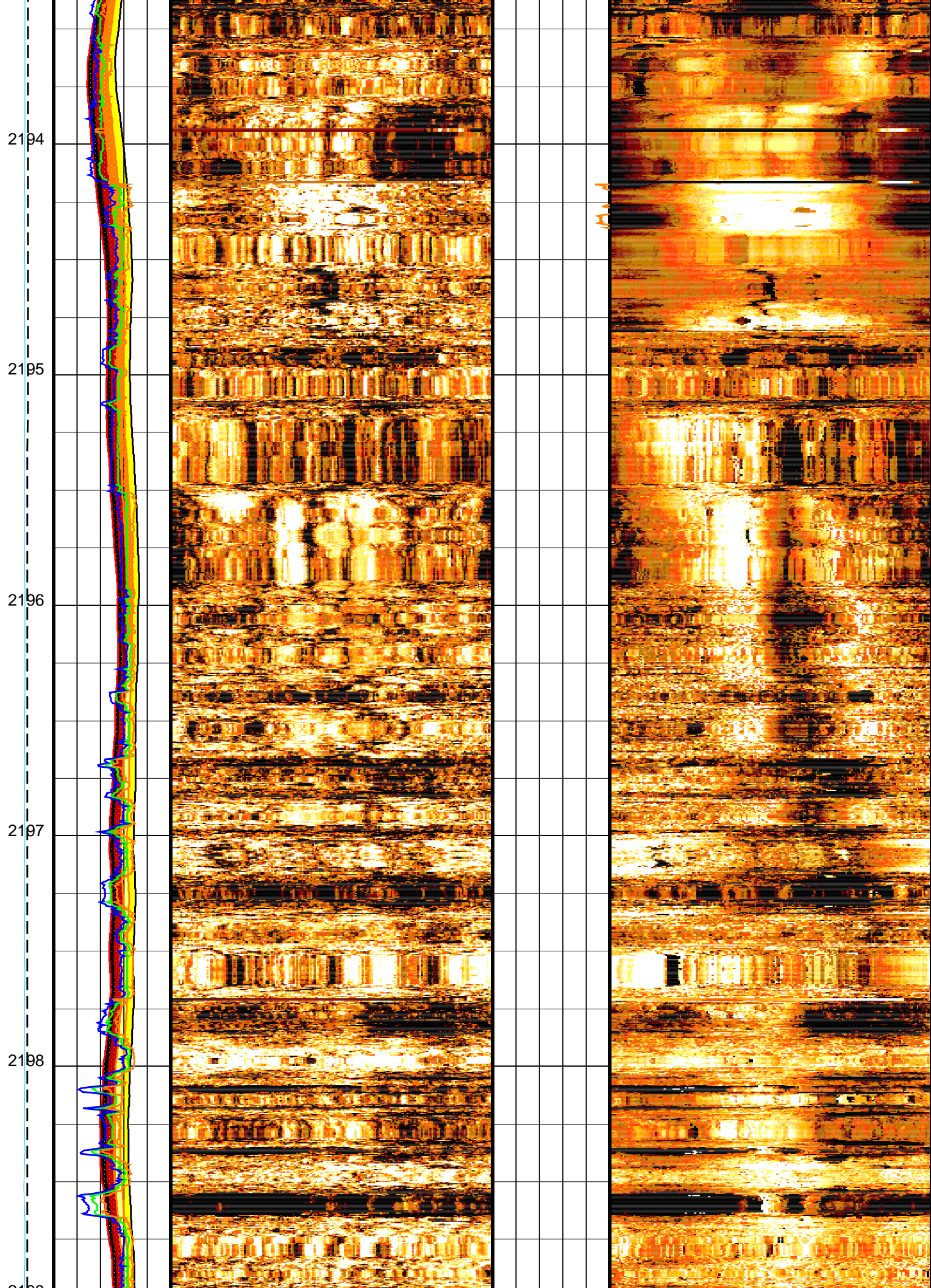
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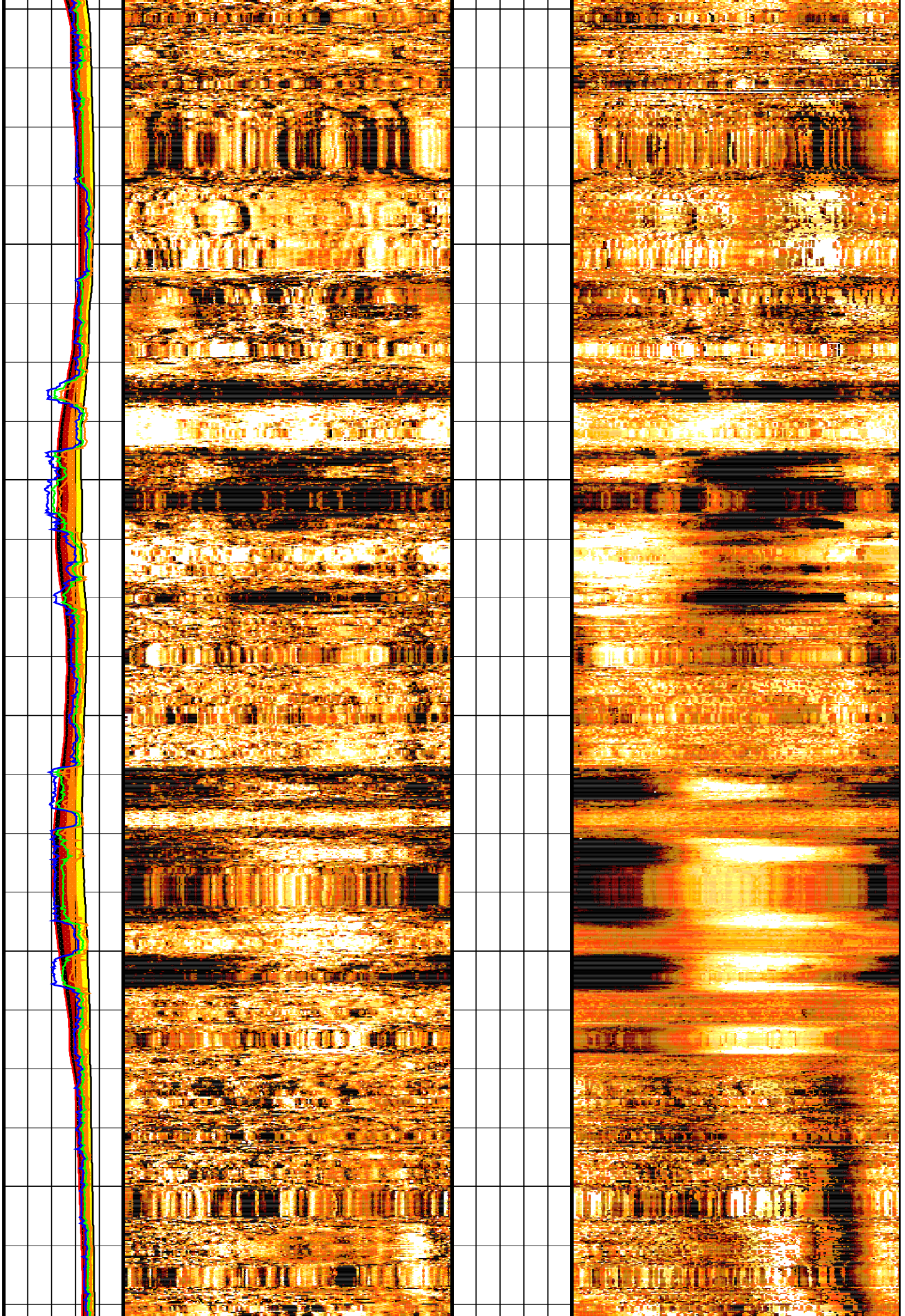
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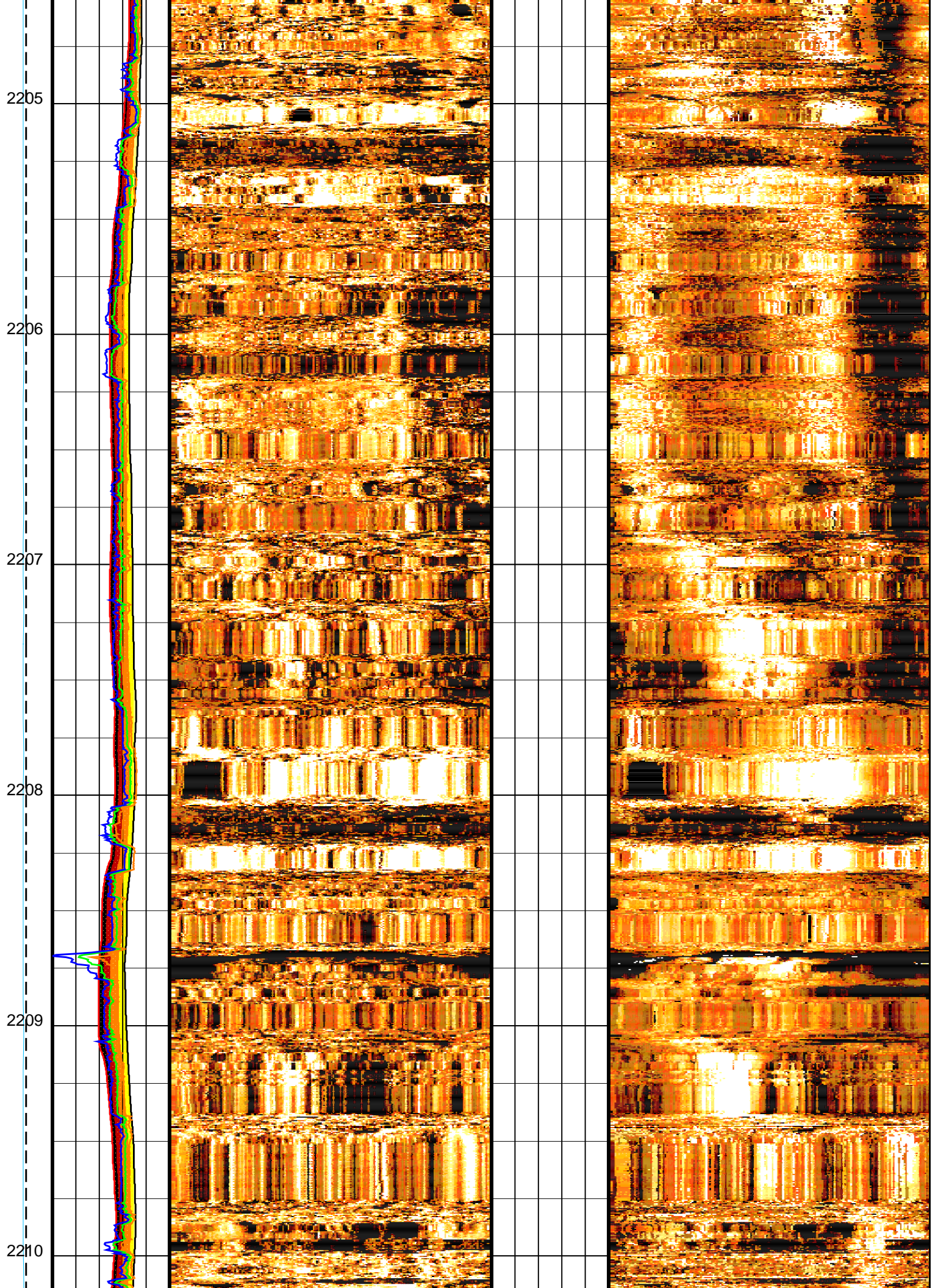


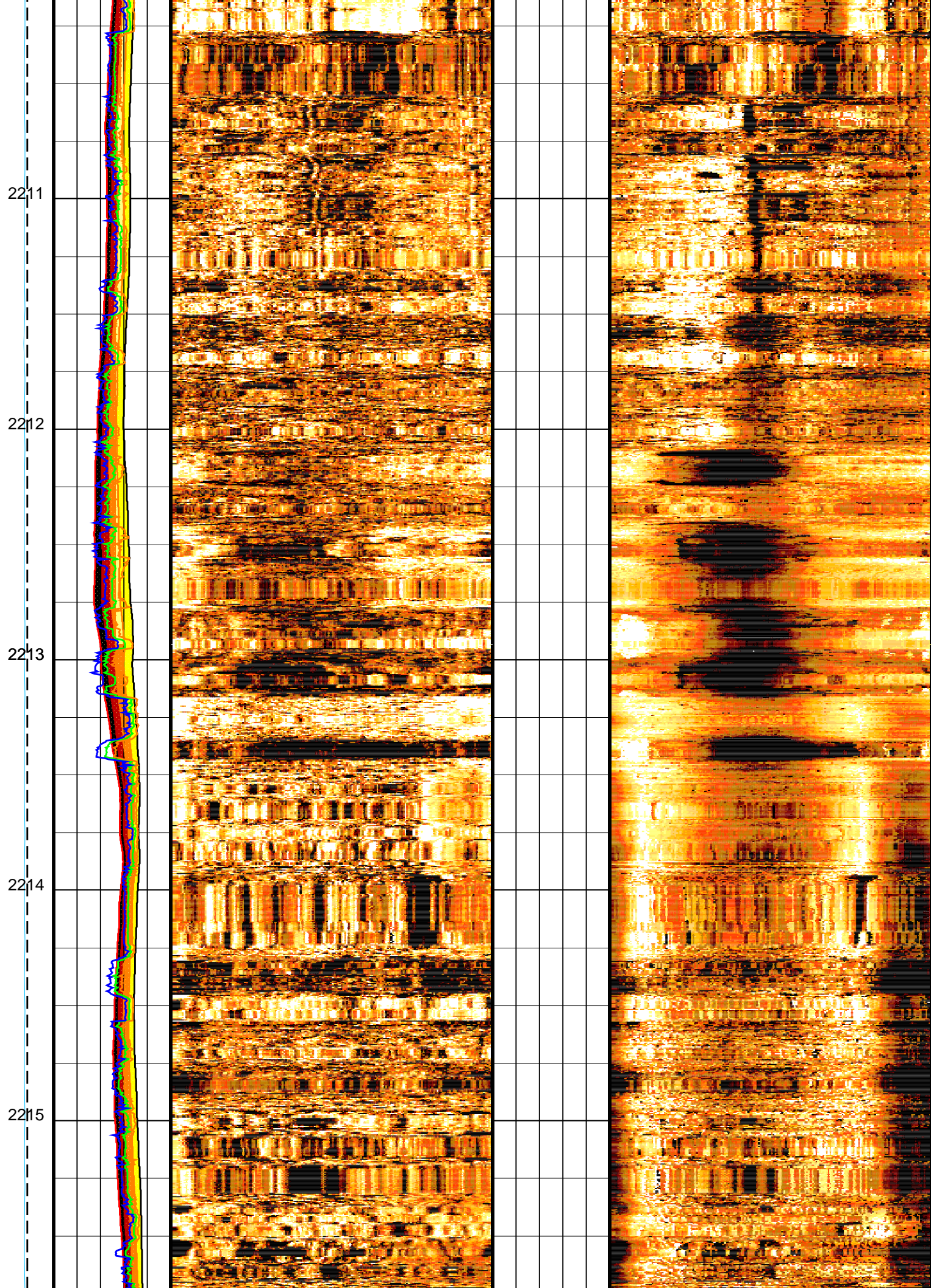




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2204







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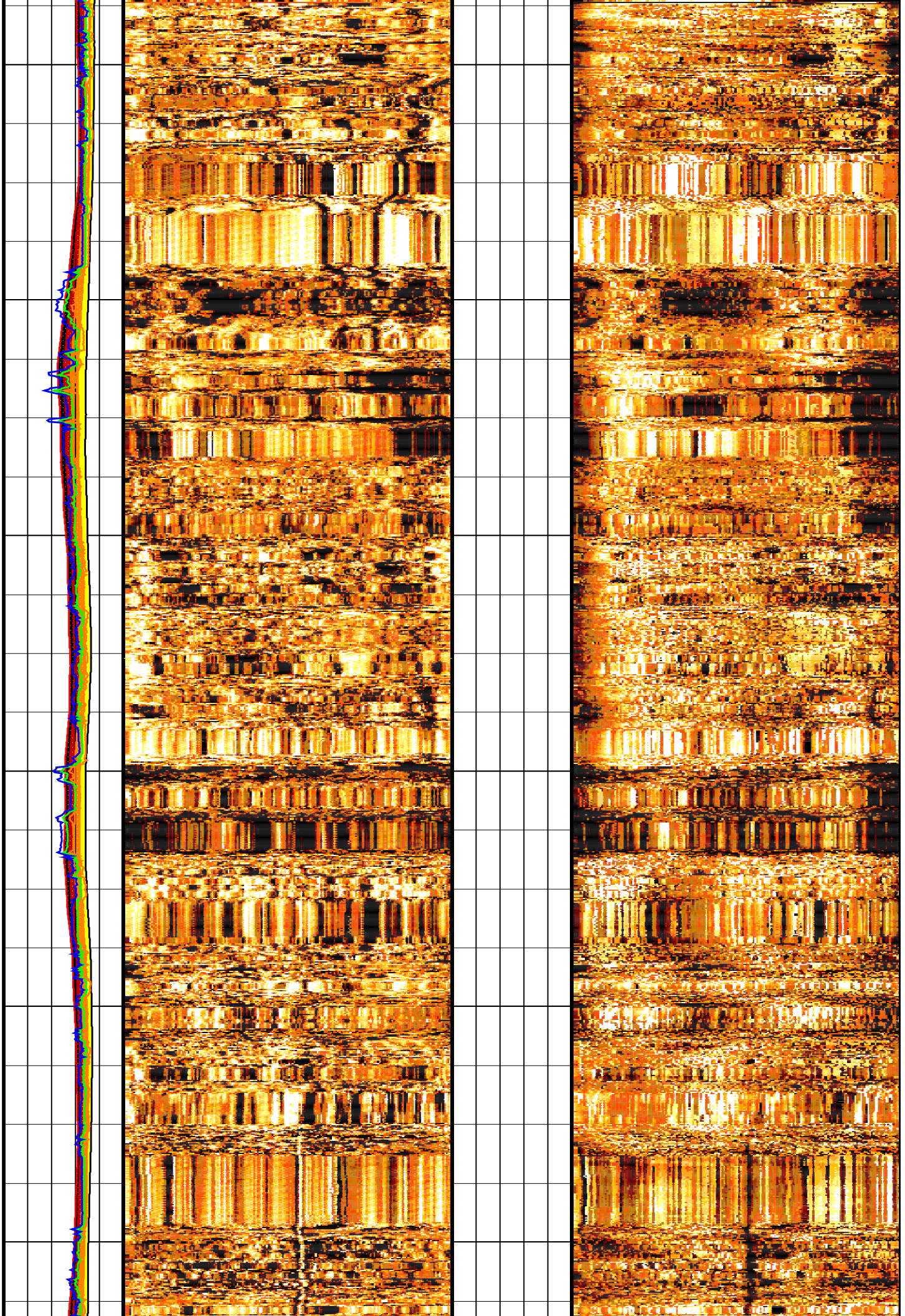
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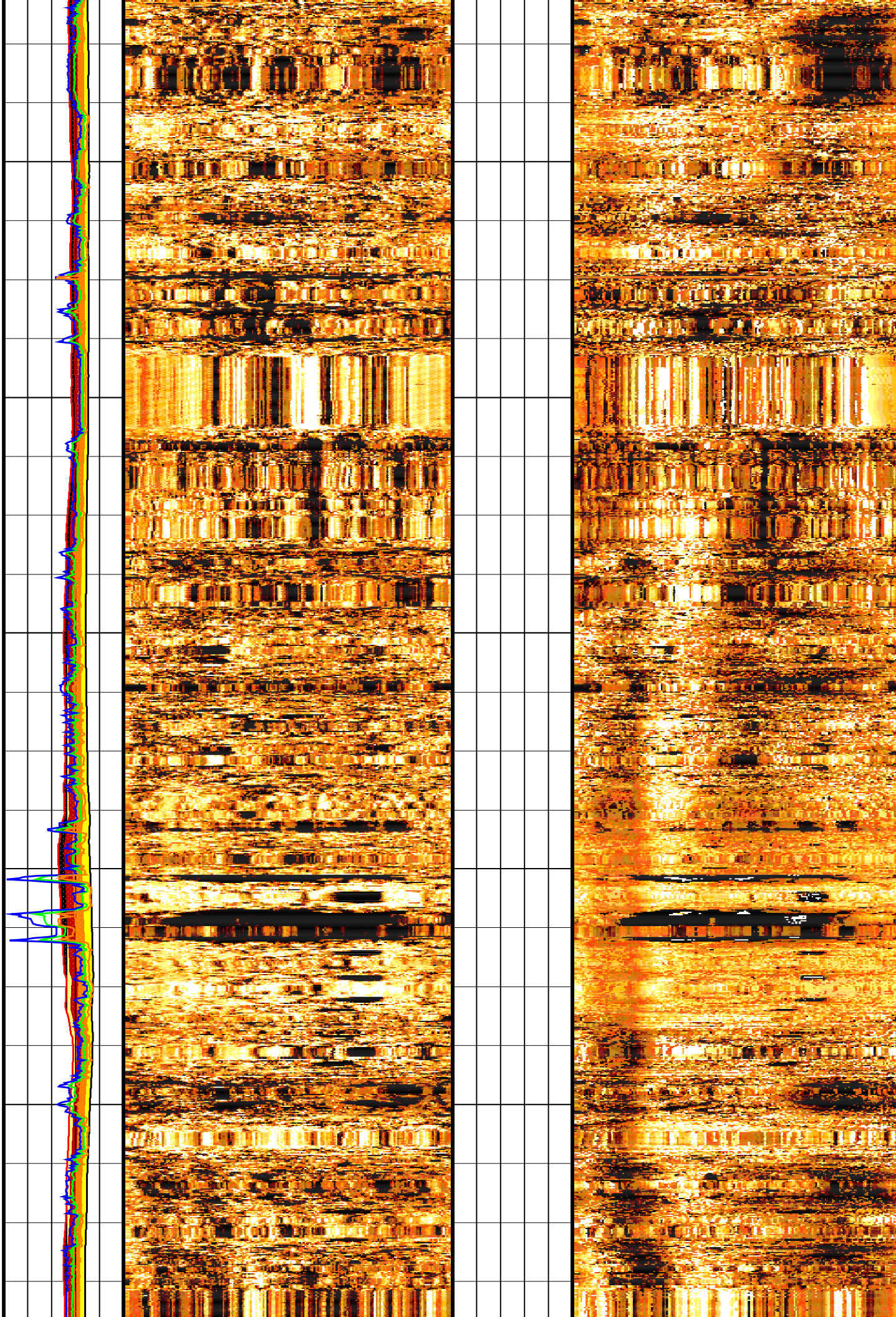
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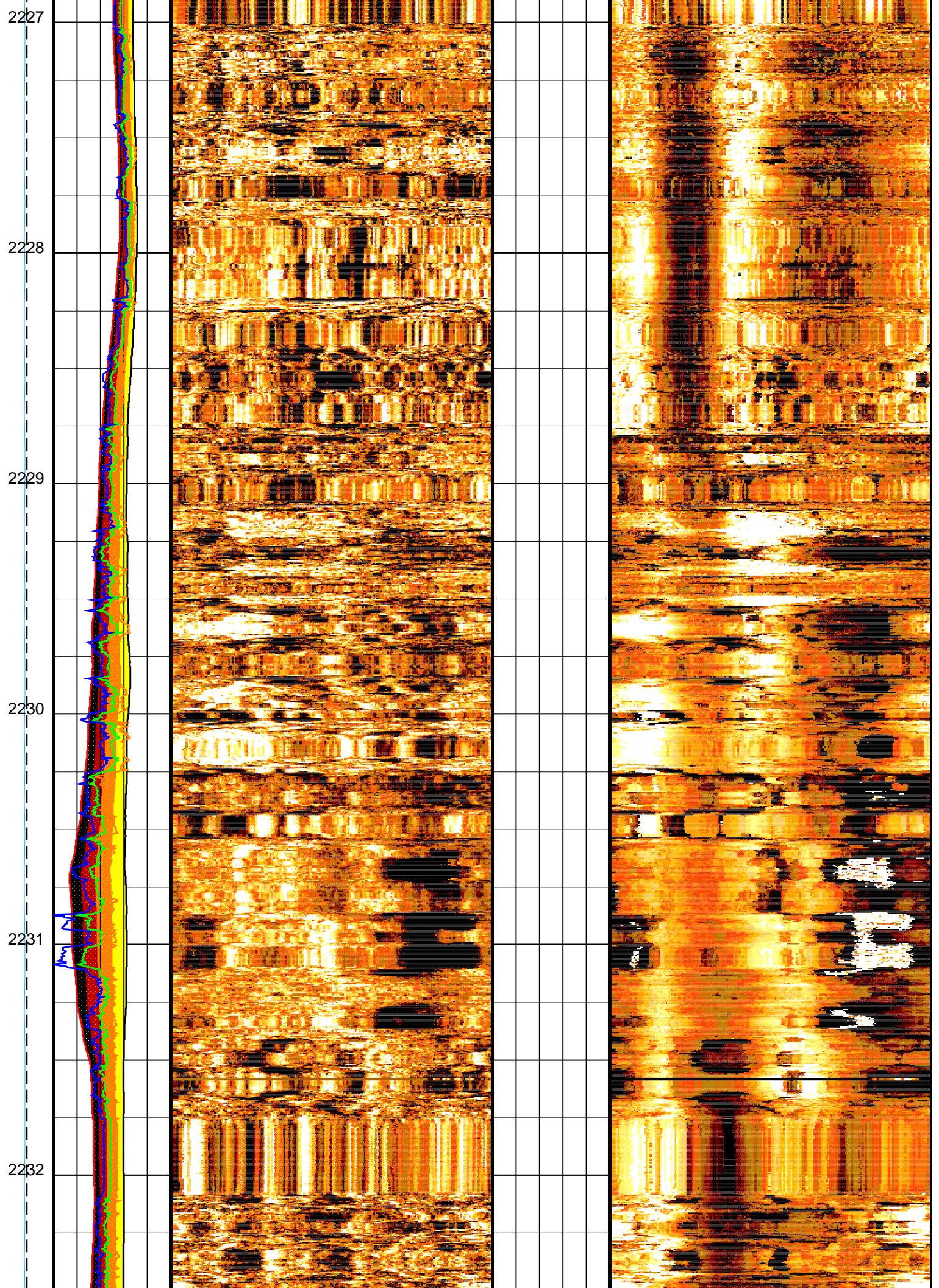
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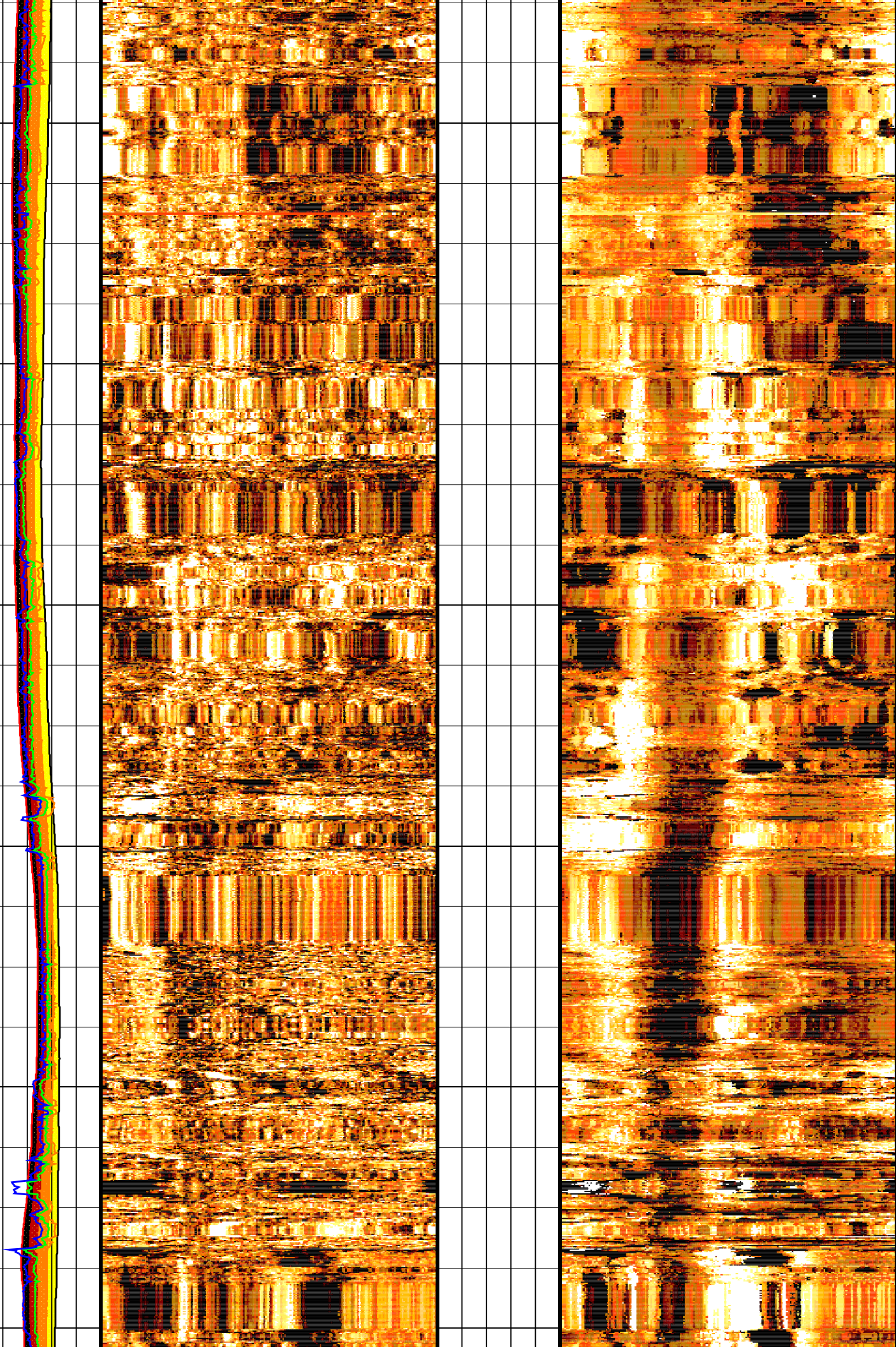
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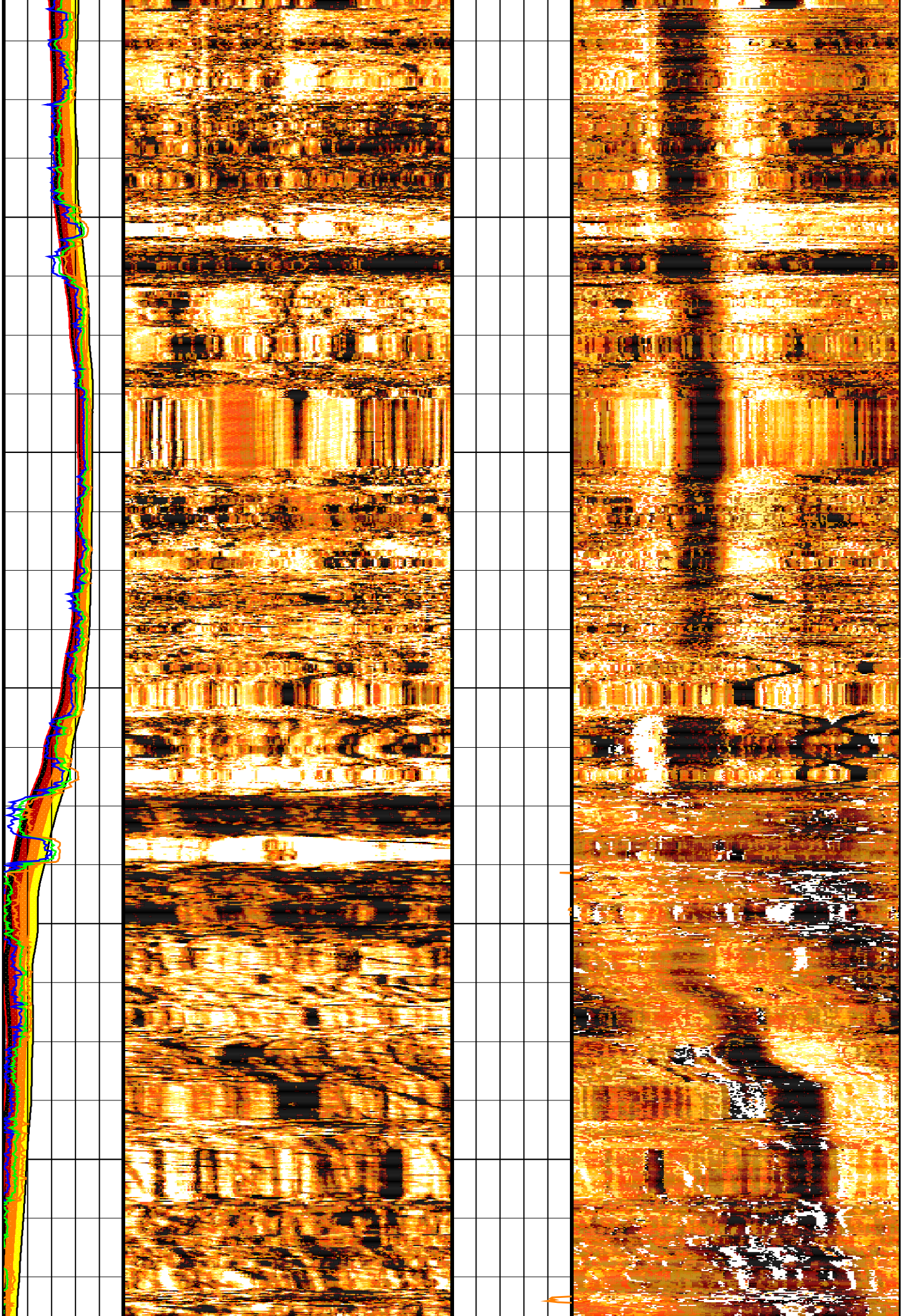
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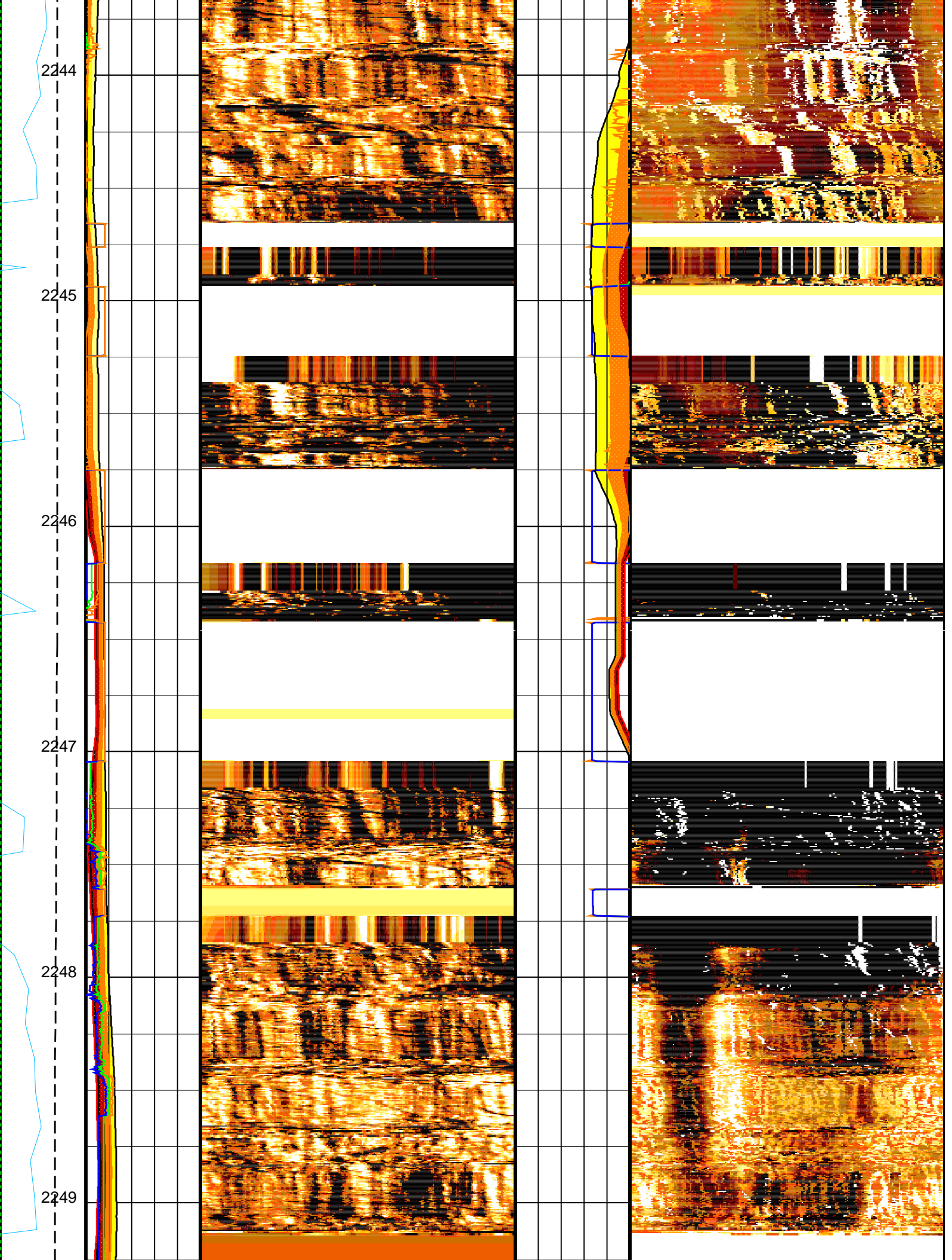
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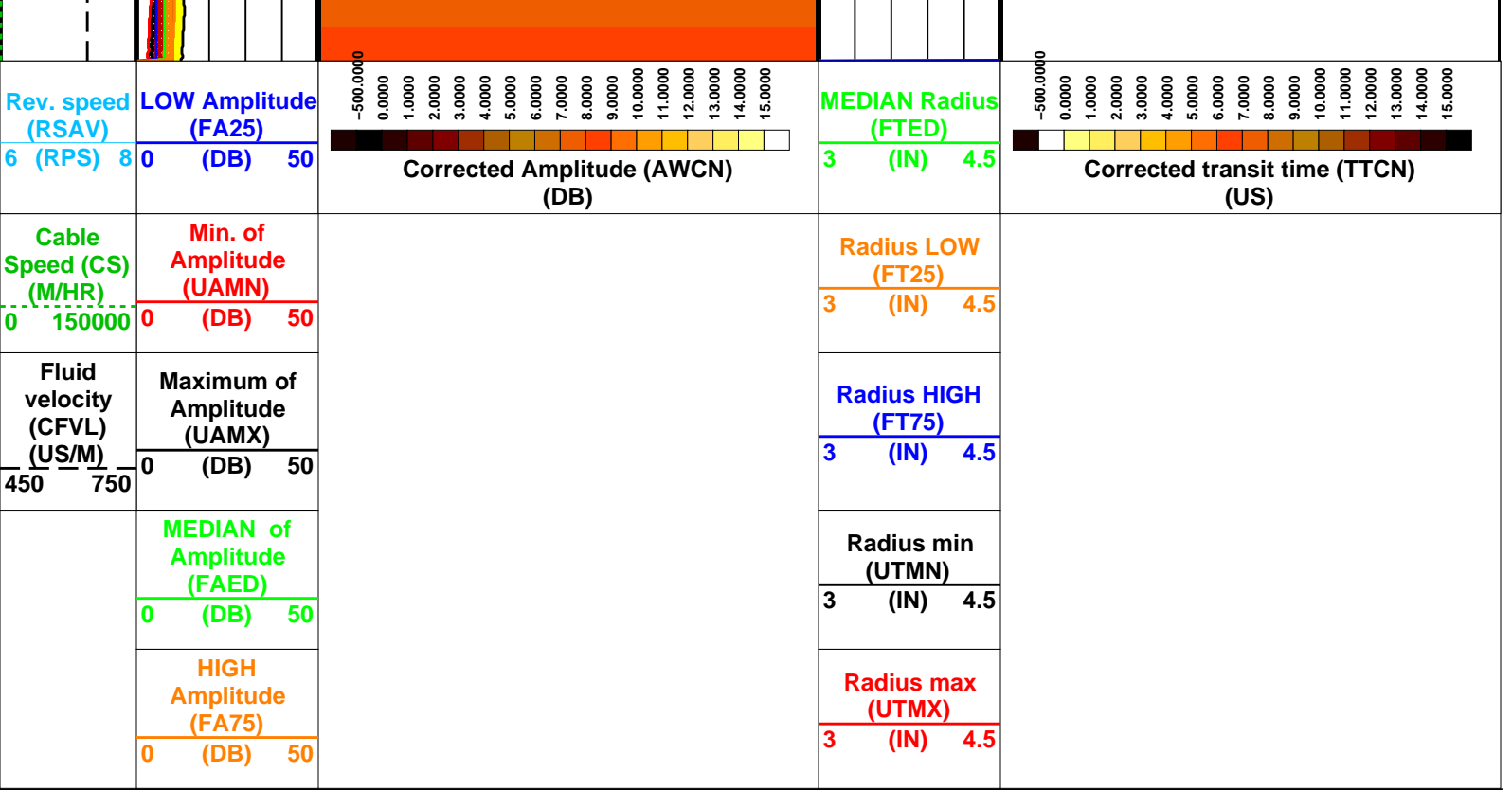
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2242

2243







Format: UBI\_Image Vertical Scale: 1:20 Graphics File Created: 20-Aug-2021 23:18

## OP System Version: 19C0-187

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

## Parameters

DLIS Name	Description	Value
UBI-D: Ultrasonic Borehole Imager - D		
AAMN	Automatic Amplitude Minimum Scale	2 DB
ANGO	Angular Offset	-17 DEG
ATMN	Automatic Transit Time Minimum Scale	2 US
CSID	Casing Inner Diameter	4.125 IN
DCMN	Window Decrement Down	0.8
DCMX	Window Decrement Up	0.6
DFVL	Default Fluid Velocity	201 US/F
DOT	Diameter of Tool	1.85 IN
ECRL	Eccentering Correction Level	FIRST
ERDB	Eccentering Rejection	12 DB
FDOS	FVEL Depth Offset	0 M
FMOS	FVEL Measurement Offset	0 US/F
GCSW	Gain Correction	ON
IMAR	Image Rotation	OFF
LIM1	Minimum Limit Control	AUTO
LIM2	Maximum Limit Control	MANUAL
NBCD	Color Correction Depth Level	80
NBLD	Eccentering Correction Depth Level	1
NCDI	Noise Correction Depth Interval	30
PNSW	Processing Noise Correction	ON
RCSO	Reference Calibrator Standoff	0.795 IN
RJ60	60 Hz Correction	ON
SWLV	Sliding Window Minimum	Inh_18us
SWMX	Sliding Window Maximum	Inh_167us
UFON	UBI Flagging of Lost Echoes	OFF
UGOS	UBI/UCI GPIT Offset	3.63 IN
USTO	Ultrasonic Time Offset	-3 US
USUB	UBI Sub Identifier	Sub_5_inch
UWKM	Current Working Mode	UBI7_SW500_180_1
UHSV: UBI Hole Shape Analysis		
AAMN	Automatic Amplitude Minimum Scale	2 DB
ANGO	Angular Offset	-17 DEG
ATMN	Automatic Transit Time Minimum Scale	2 US
CSID	Casing Inner Diameter	4.125 IN

DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	US/F
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
GCSW	Gain Correction	ON	
IMAR	Image Rotation	OFF	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	MANUAL	
NBCD	Color Correction Depth Level	80	
NBLD	Eccentering Correction Depth Level	1	
NCDI	Noise Correction Depth Interval	30	
PNSW	Processing Noise Correction	ON	
RCSO	Reference Calibrator Standoff	0.795	IN
RJ60	60 Hz Correction	ON	
SWLV	Sliding Window Minimum	Inh_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
BS	System and Miscellaneous Bit Size	9.875	IN

### Output DLIS Files

DEFAULT	UBI_NGS_036LUP	FN:37	PRODUCER	20-Aug-2021 23:18
RTB	UBI_NGS_036LUP	FN:38	PRODUCER	20-Aug-2021 23:18

**Schlumberger**

**Second Pass**

MAXIS Field Log

Company: International Ocean Discovery Program Well: Expedition 396, Site U1566A

### Output DLIS Files

DEFAULT	UBI_NGS_037LUP	FN:39	PRODUCER	20-Aug-2021 23:59	2238.0 M	2151.9 M
RTB	UBI_NGS_037LUP	FN:40	PRODUCER	20-Aug-2021 23:59	2238.0 M	2151.9 M

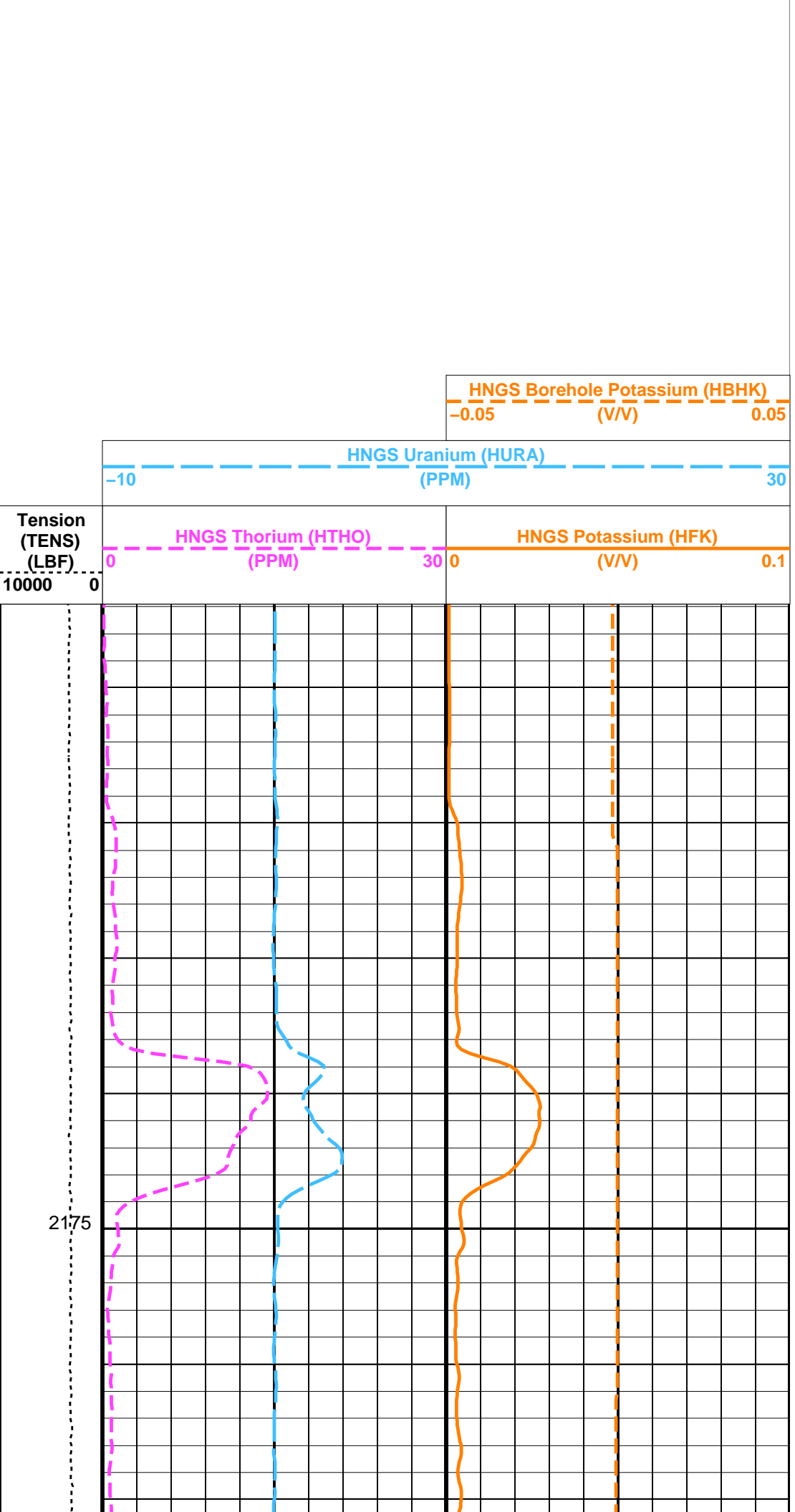
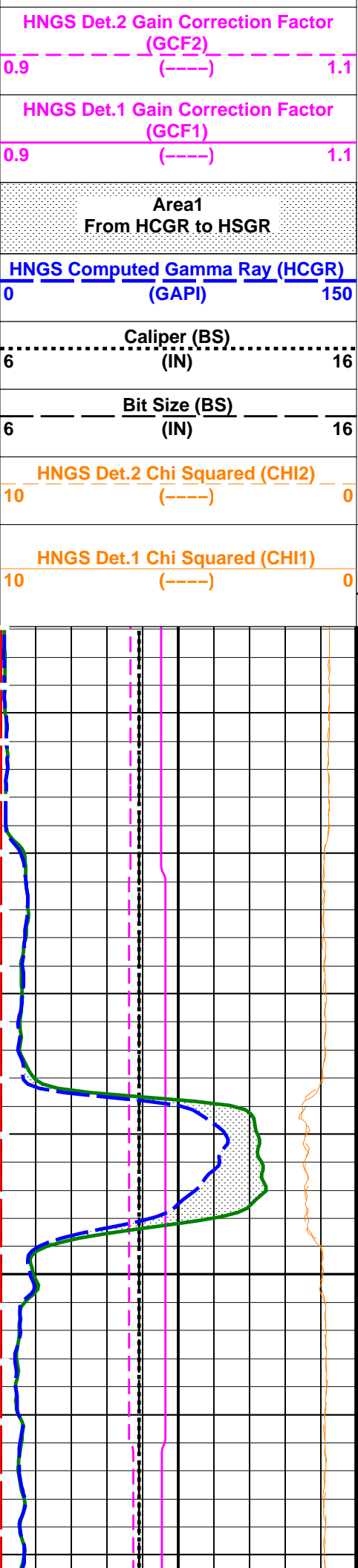
### OP System Version: 19C0-187

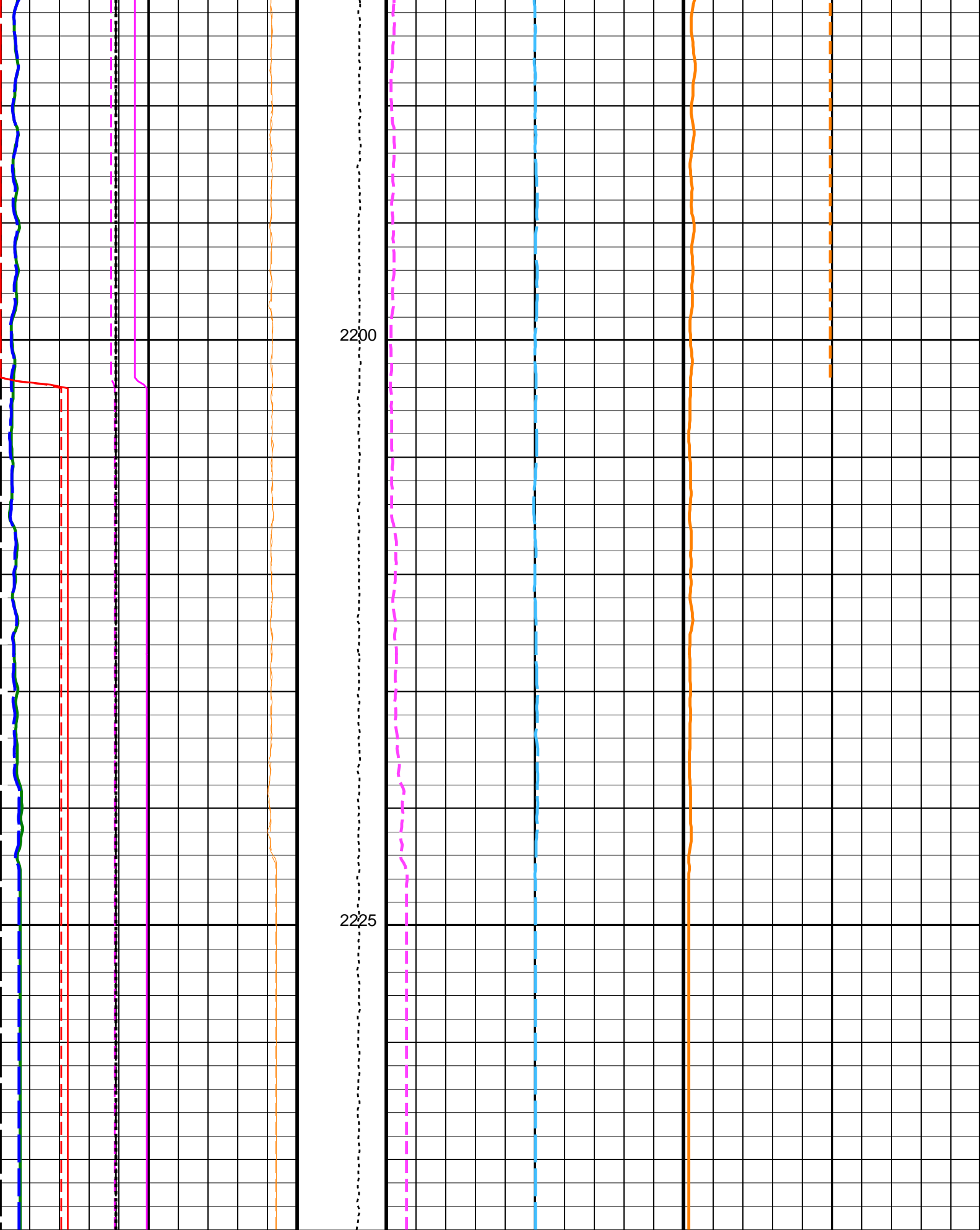
UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	150
HNGS Det.2 Resolution Degradation Factor (RDF2)		
0	(----)	10
HNGS Det.1 Resolution Degradation Factor (RDF1)		
0	(----)	10





10 0  
HNGS Det.1 Chi Squared (CHI1)  
(-----)

10000 0  
Tension  
(TENS)  
(LBF)

0 30 0  
HNGS Thorium (HTHO)  
(PPM)

0 0.1  
HNGS Potassium (HFK)  
(V/V)

<b>HNGS Det.2 Chi Squared (CHI2)</b>		
10	(----)	0
<b>Bit Size (BS)</b>		
6	(IN)	16
<b>Caliper (BS)</b>		
6	(IN)	16
<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	150
Area1 From HCGR to HSGR		
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(----)	1.1
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(----)	1.1
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(----)	10
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(----)	10
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	150

<b>HNGS Uranium (HURA)</b>		
-10	(PPM)	30
<b>HNGS Borehole Potassium (HBHK)</b>		
-0.05	(V/V)	0.05

**PIP SUMMARY**

Time Mark Every 60 S

**Parameters**

DLIS Name	Description	Value
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	-0.00106066
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	1.07065
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.13255
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.02 G/C3

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 20-Aug-2021 23:59

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### Output DLIS Files

DEFAULT	UBI_NGS_037LUP	FN:39	PRODUCER	20-Aug-2021 23:59
RTB	UBI_NGS_037LUP	FN:40	PRODUCER	20-Aug-2021 23:59

Company: International Ocean Discovery Program Well: Expedition 396, Site U1566A

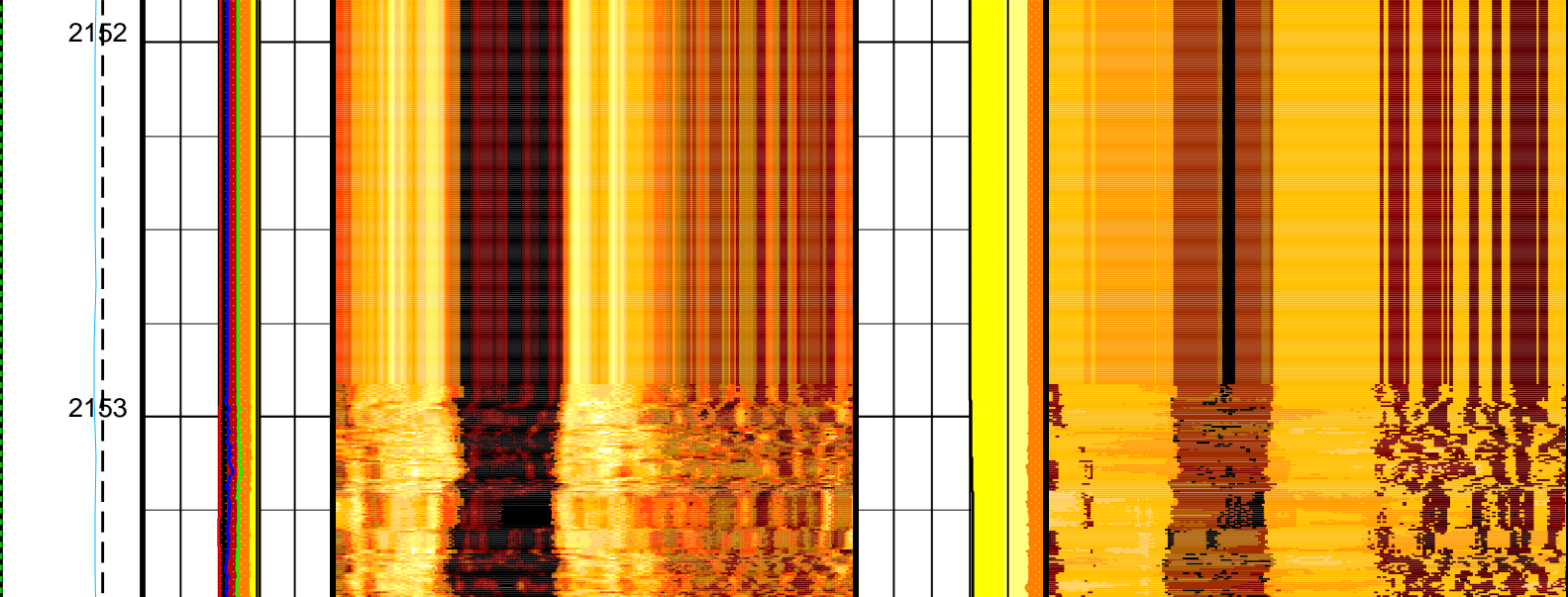
### Output DLIS Files

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RTB	UBI_NGS_037LUP	FN:40	PRODUCER	20-Aug-2021 23:59	2238.0 M	2151.9 M

### OP System Version: 19C0-187

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

	<b>HIGH Amplitude (FA75)</b> 0 (DB) 50		<b>Radius max (UTMX)</b> 3 (IN) 4.5	
	<b>MEDIAN of Amplitude (FAED)</b> 0 (DB) 50		<b>Radius min (UTMN)</b> 3 (IN) 4.5	
<b>Fluid velocity (CFVL) (US/M)</b> 450 750	<b>Maximum of Amplitude (UAMX)</b> 0 (DB) 50		<b>Radius HIGH (FT75)</b> 3 (IN) 4.5	
<b>Cable Speed (CS) (M/HR)</b> 0 150000	<b>Min. of Amplitude (UAMN)</b> 0 (DB) 50		<b>Radius LOW (FT25)</b> 3 (IN) 4.5	
<b>Rev. speed (RSAV) (RPS)</b> 6 8	<b>LOW Amplitude (FA25)</b> 0 (DB) 50	 Corrected Amplitude (AWCN) (DB)	<b>MEDIAN Radius (FTED)</b> 3 (IN) 4.5	 Corrected transit time (TTCN) (US)





2154

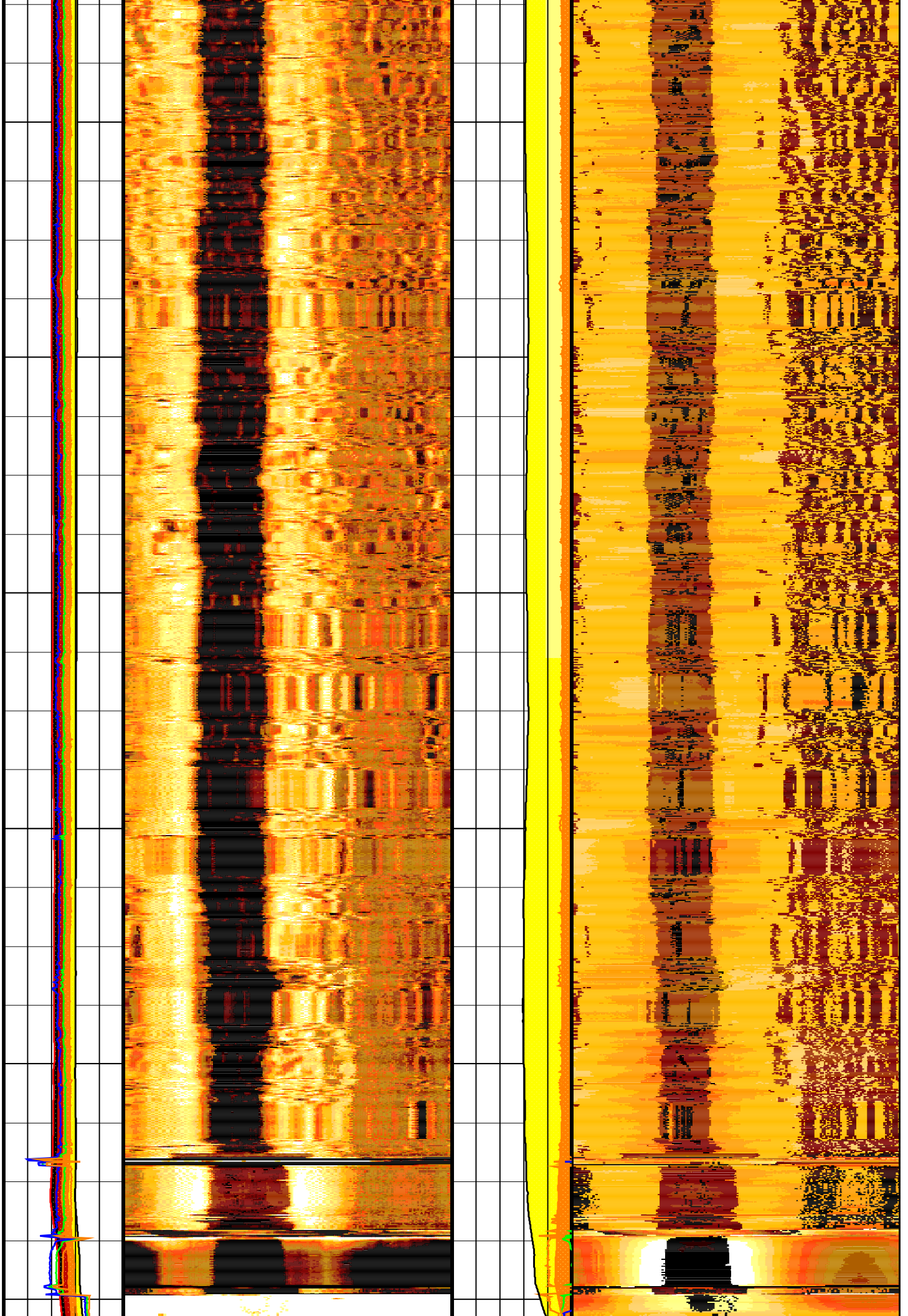
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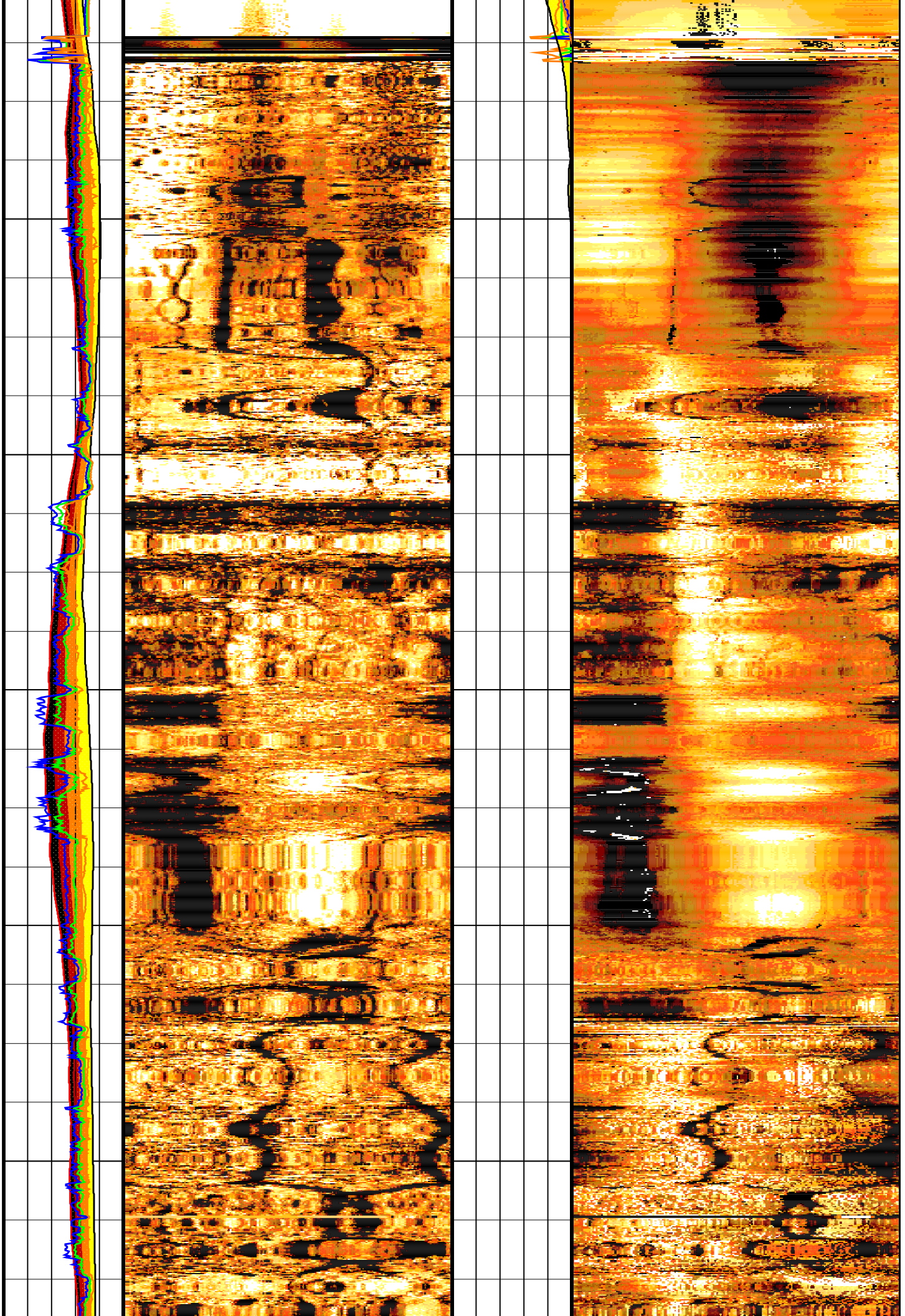
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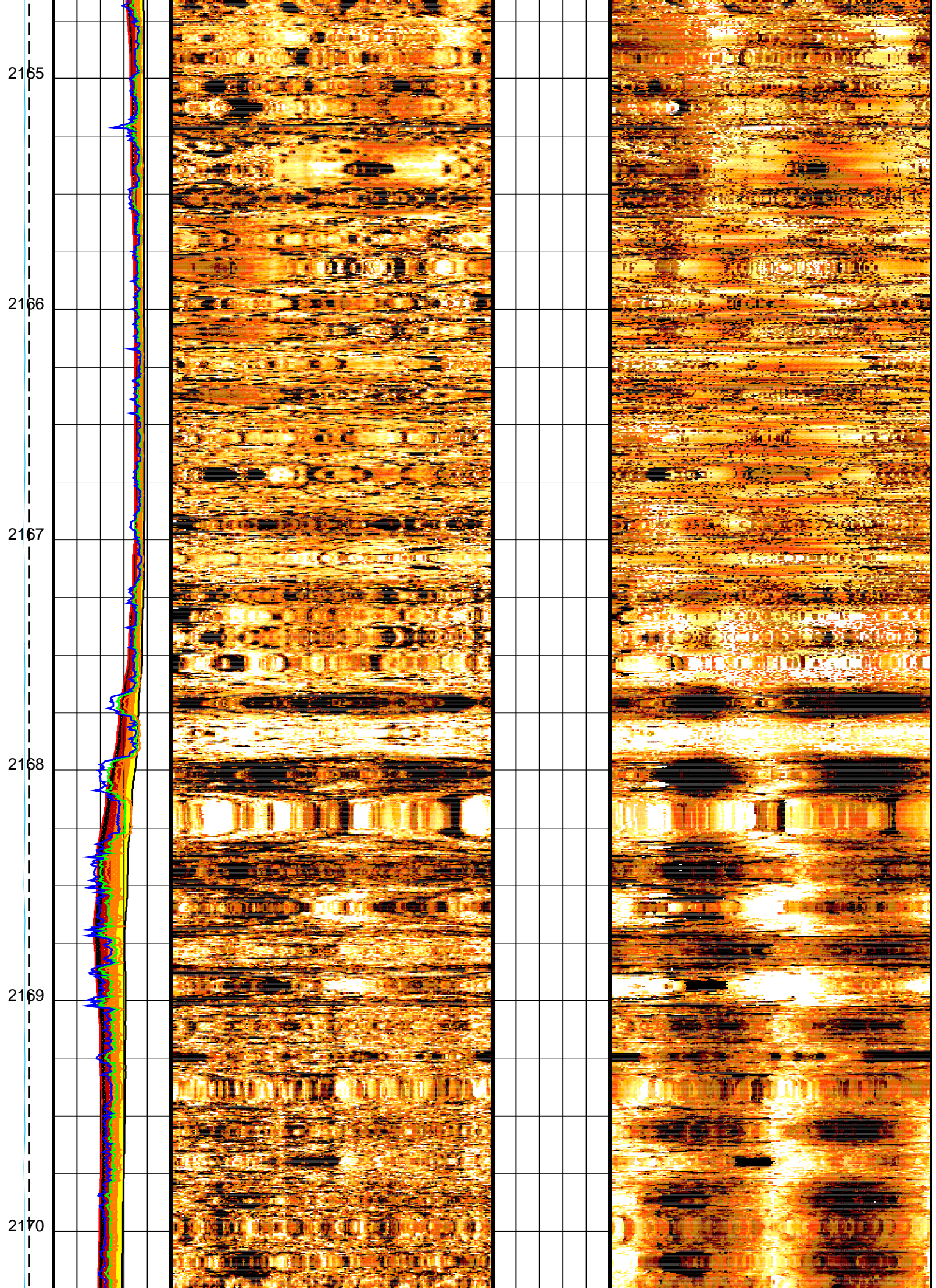
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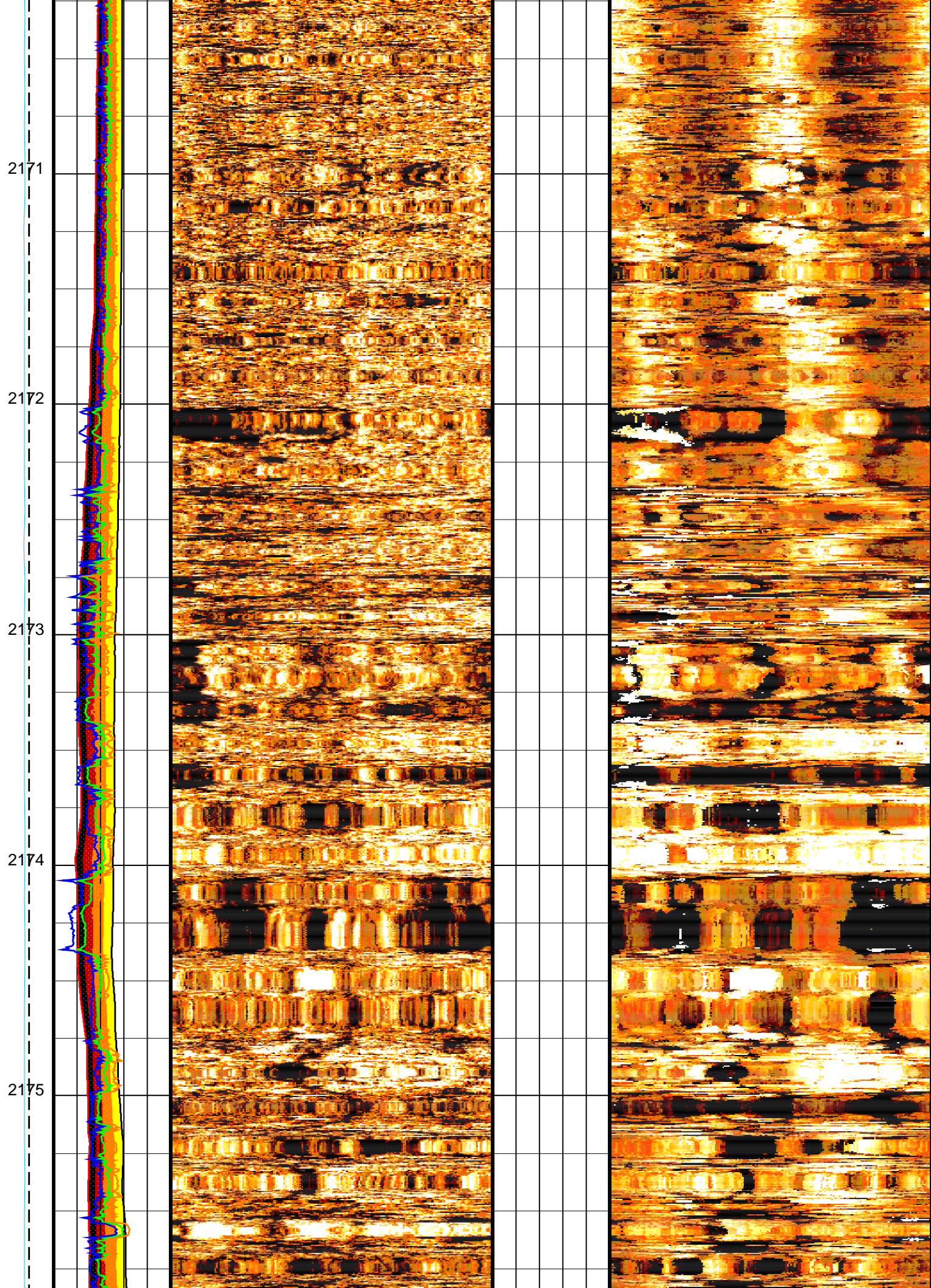
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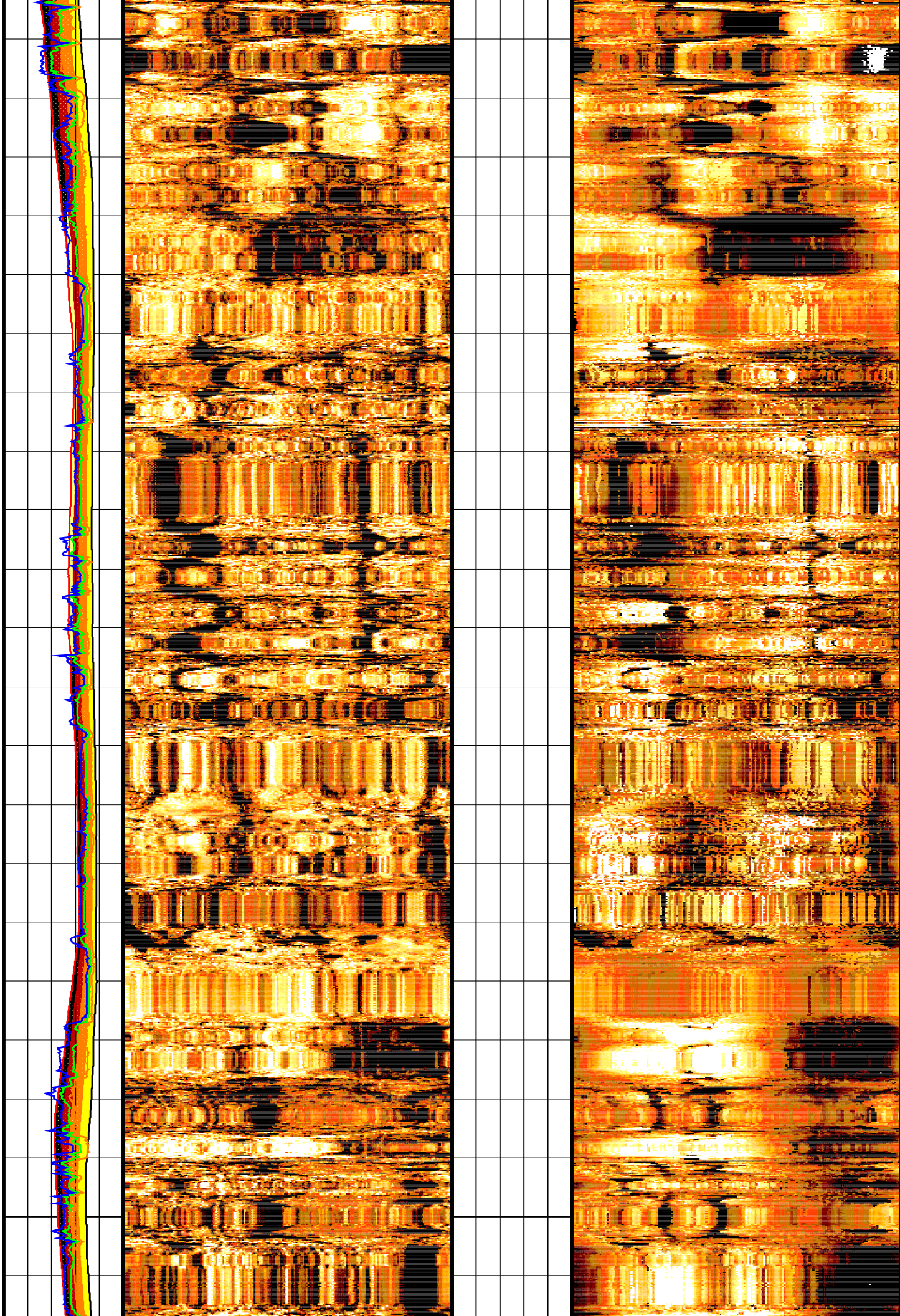
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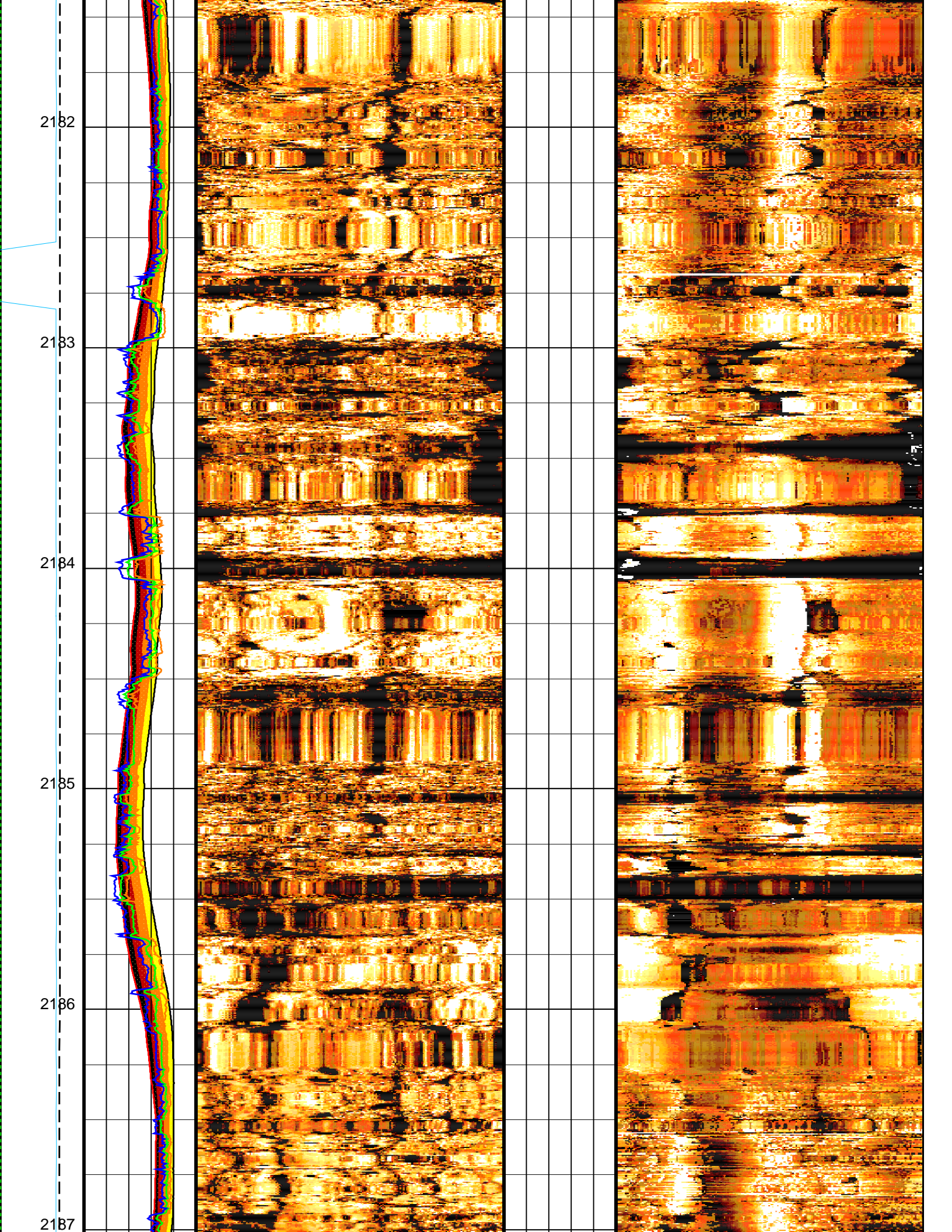


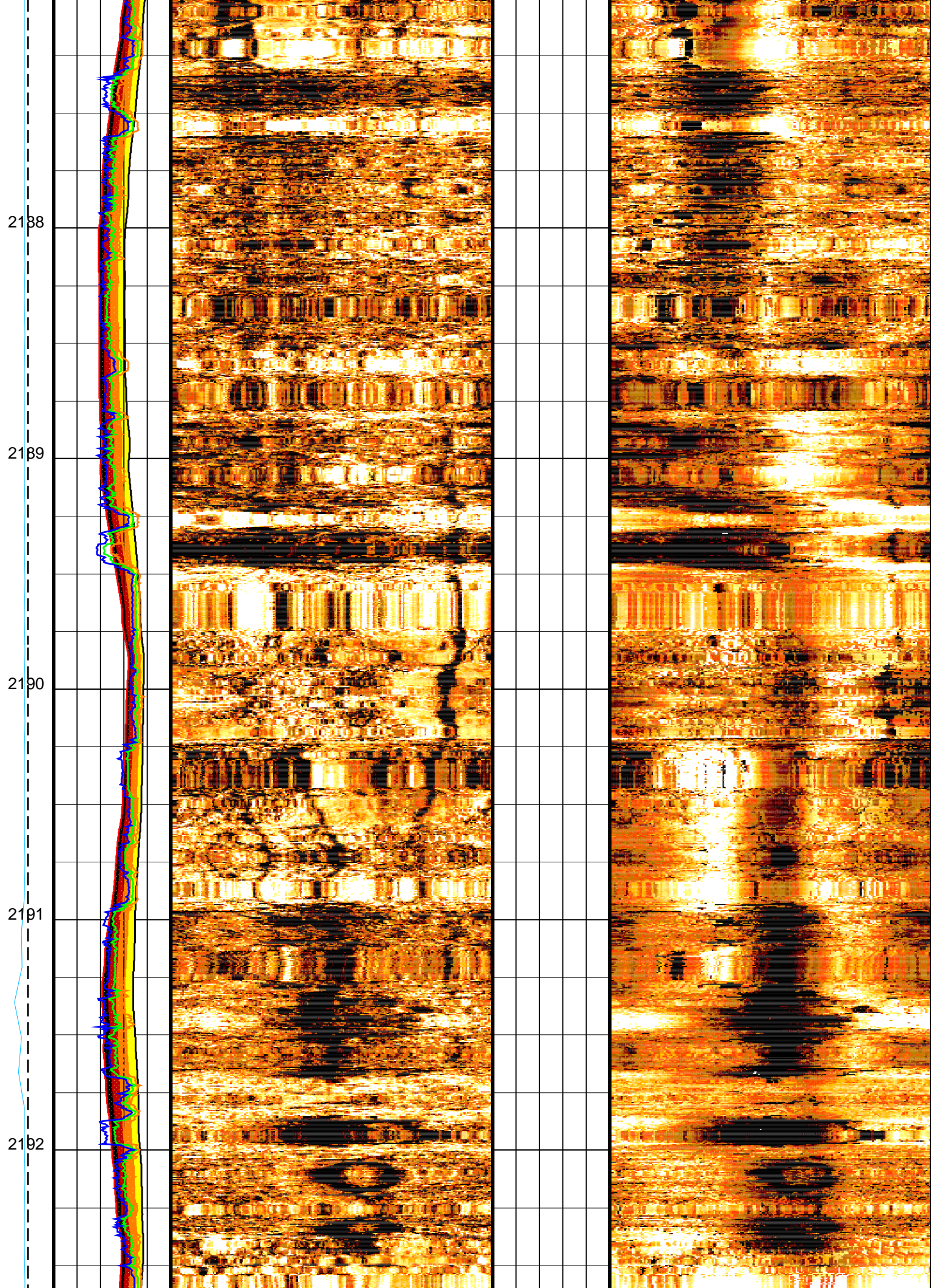




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2193

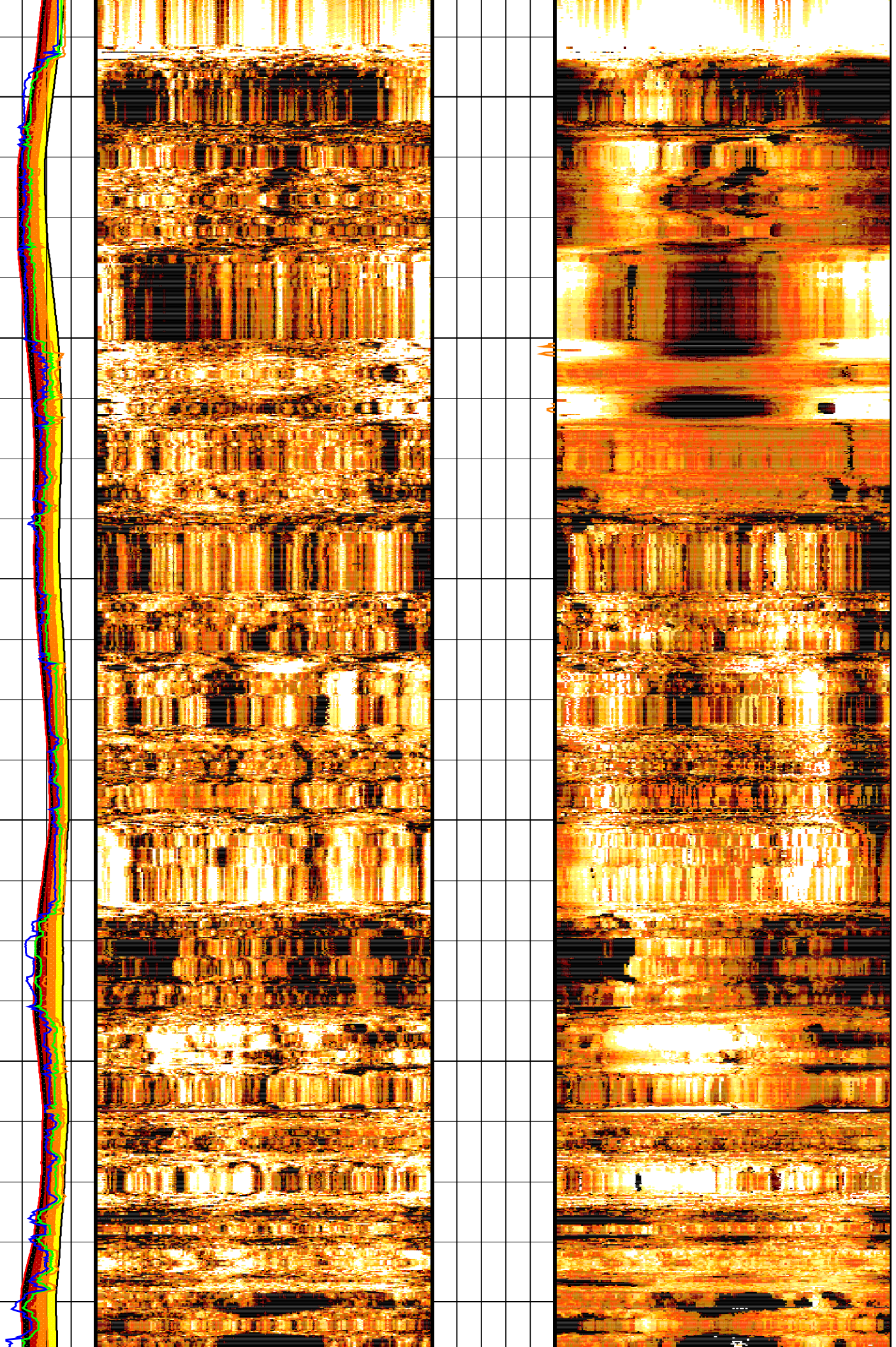
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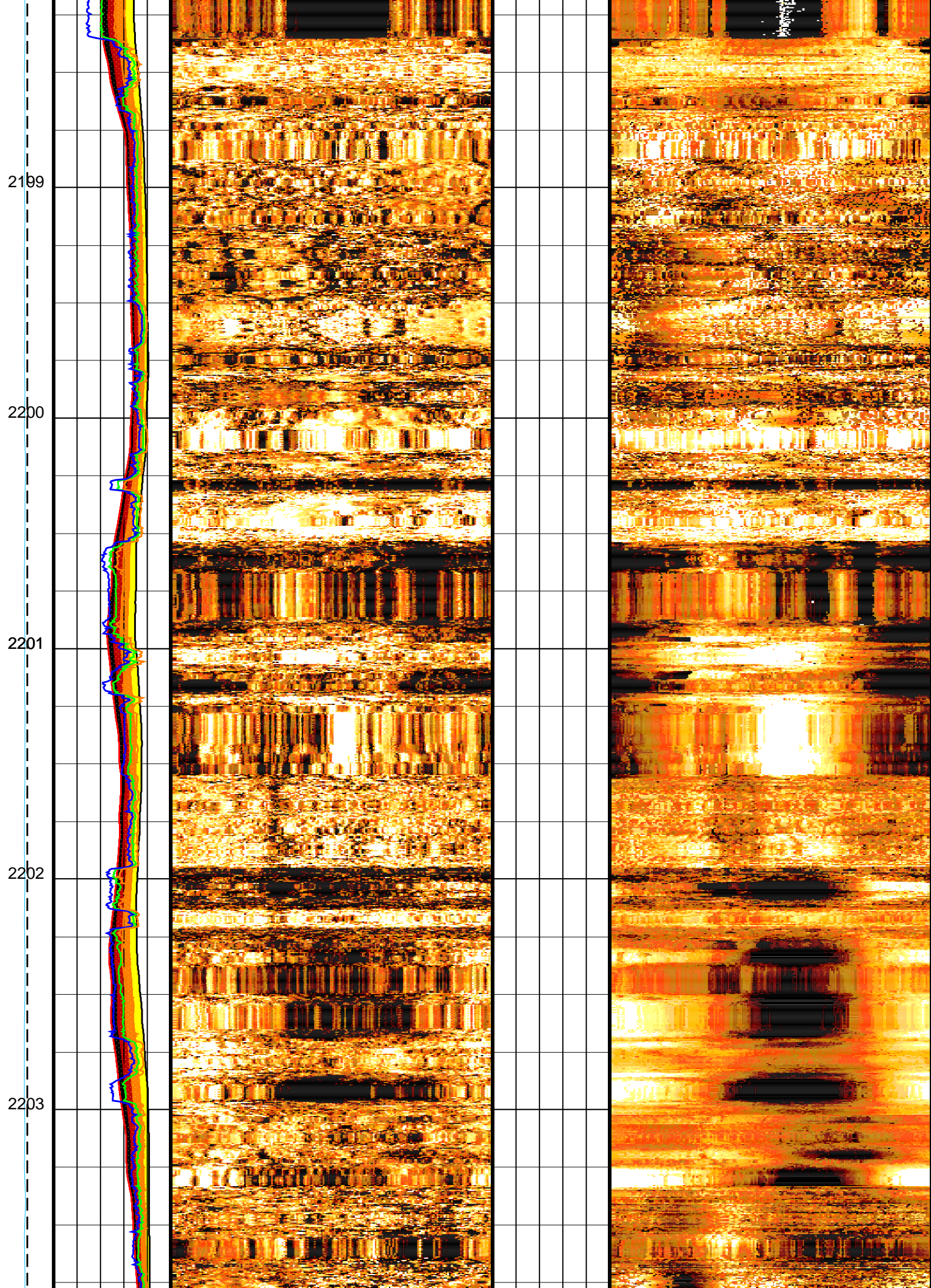
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2197

2198







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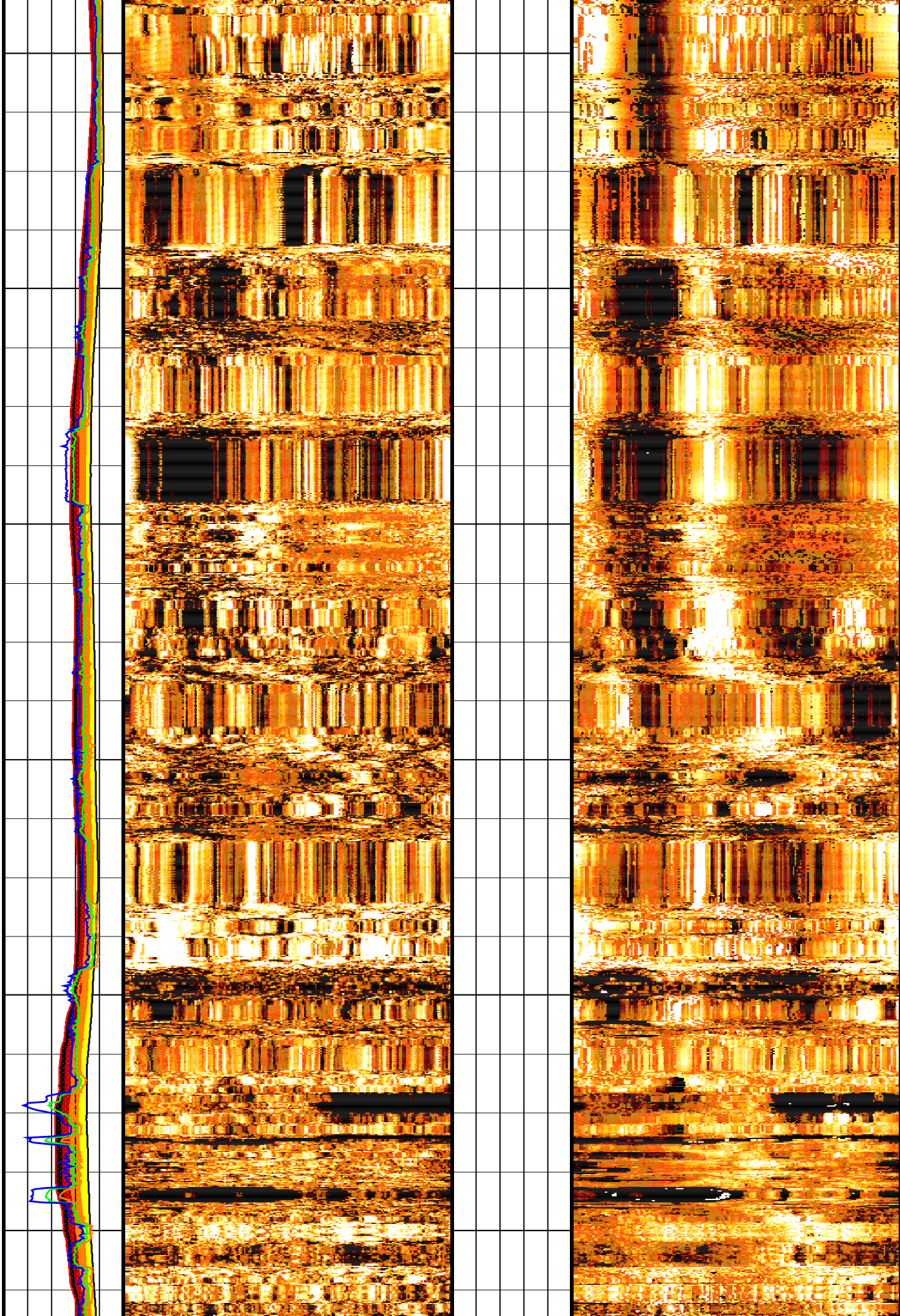
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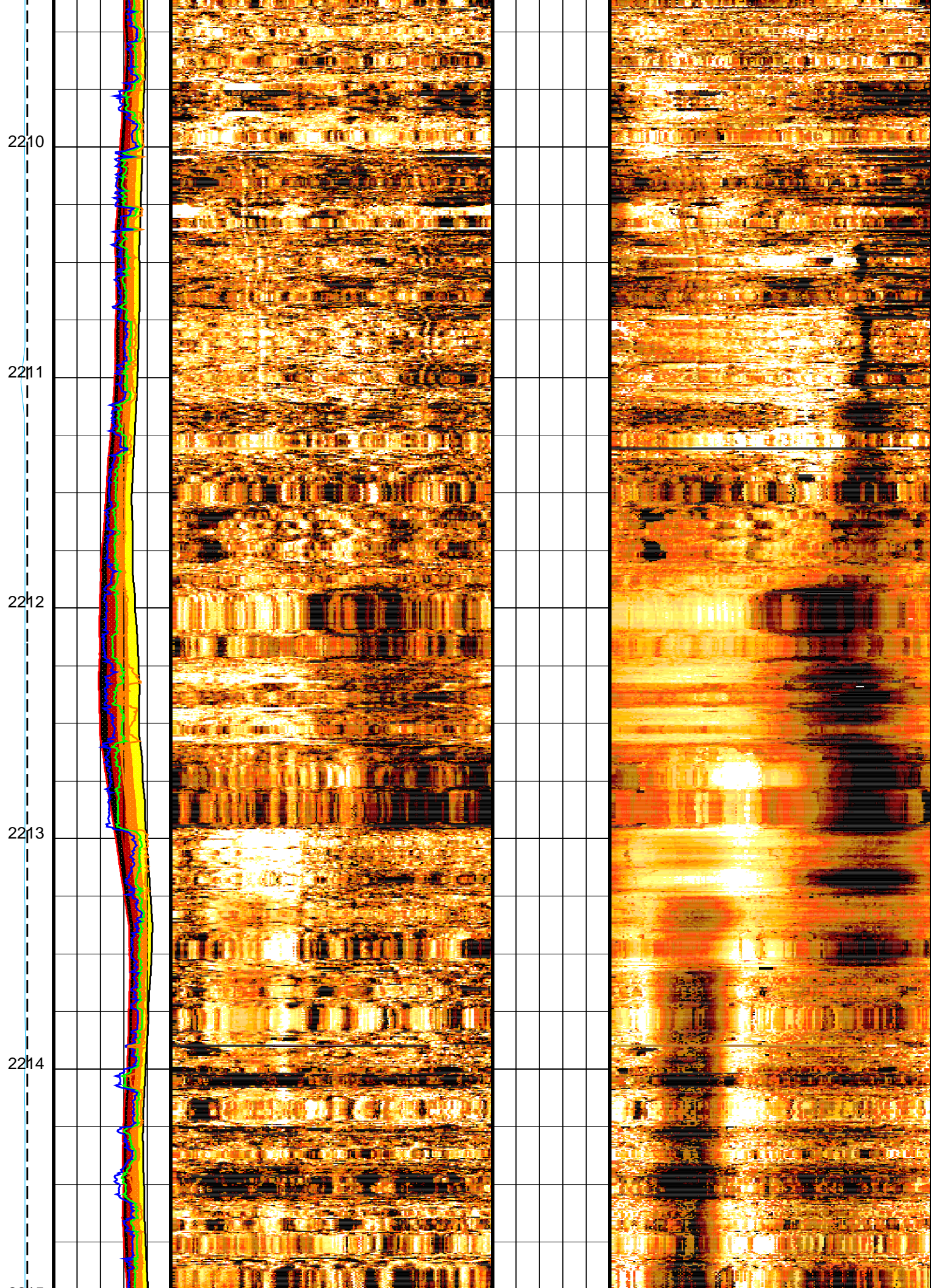
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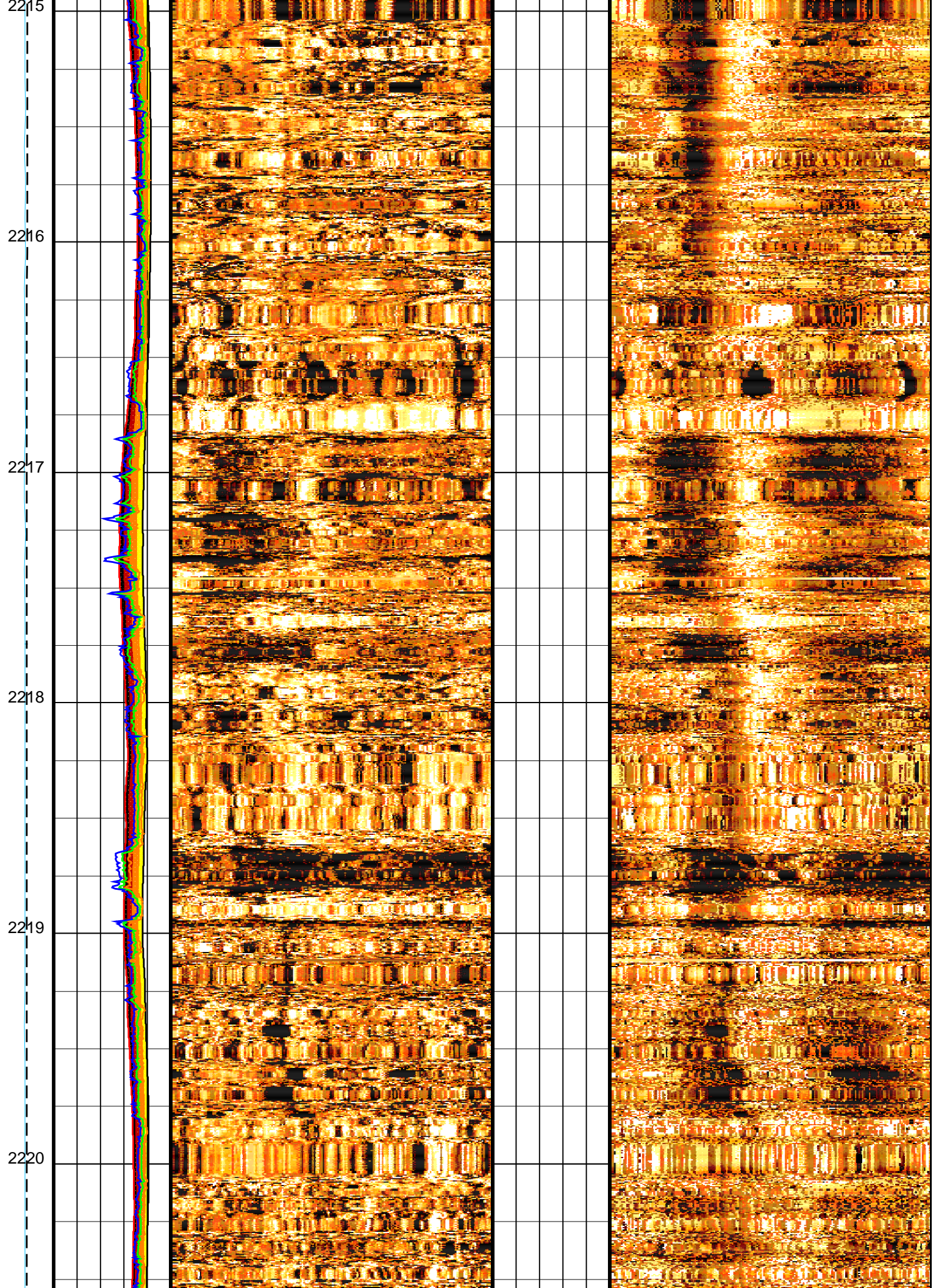
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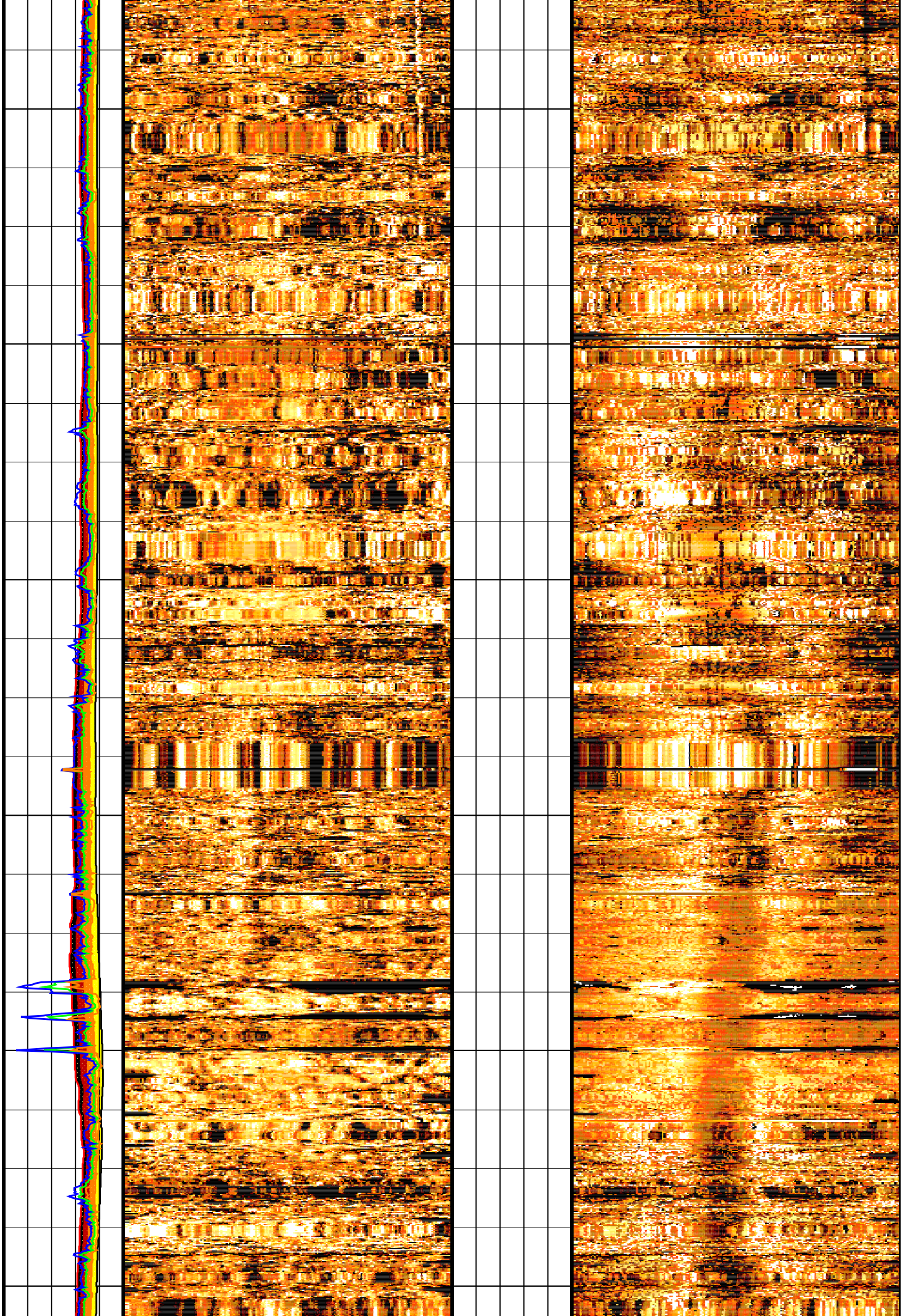
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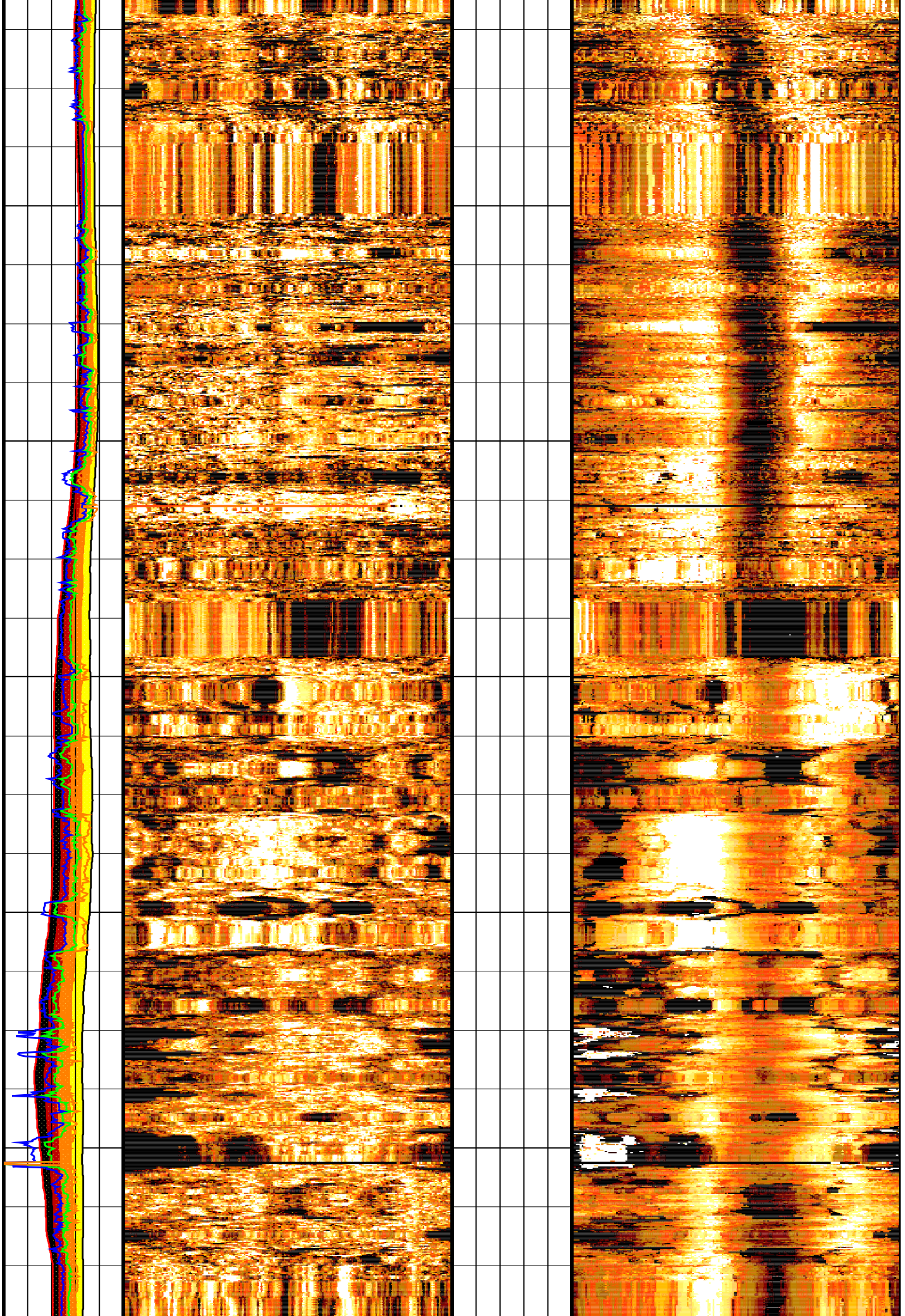
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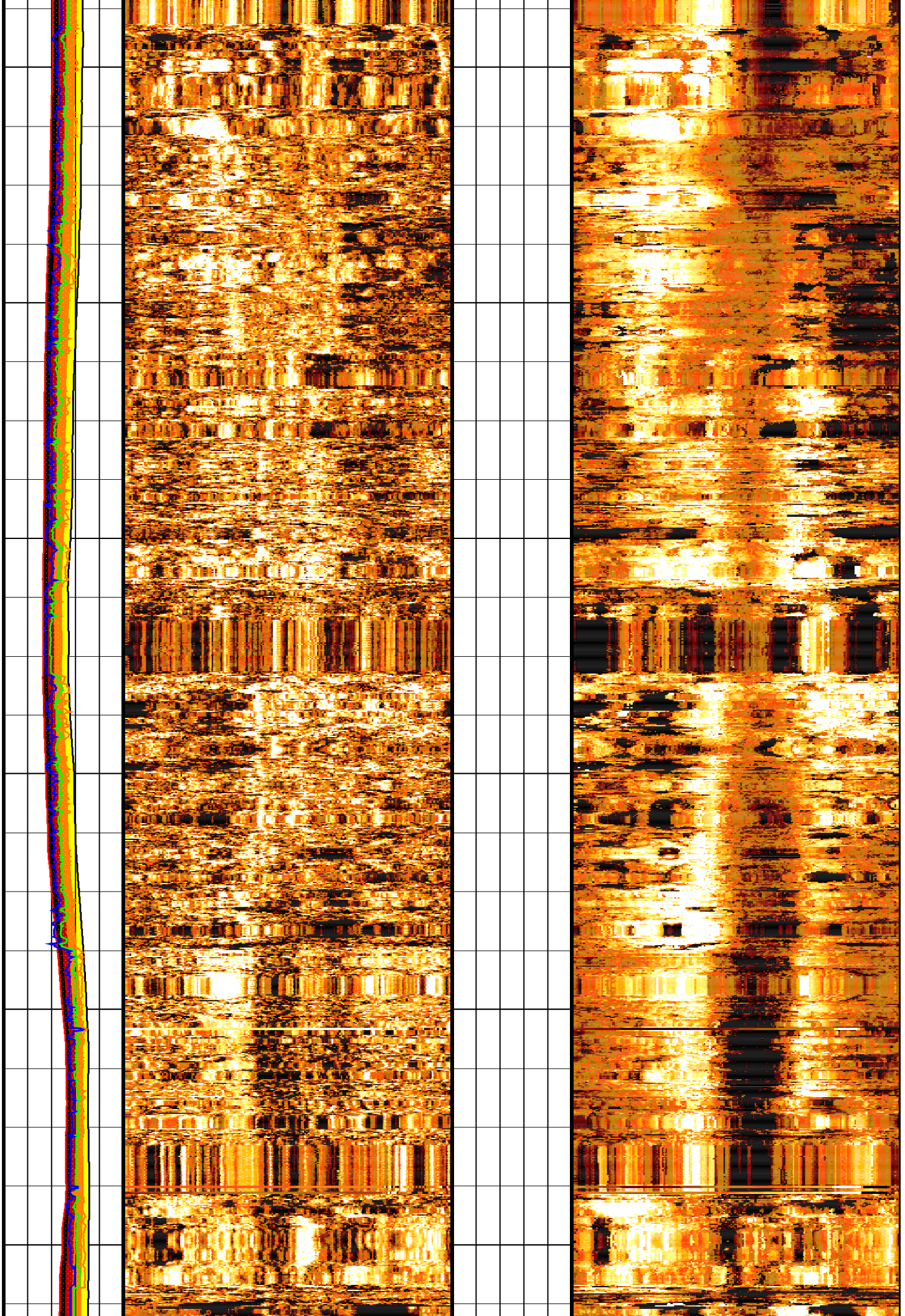
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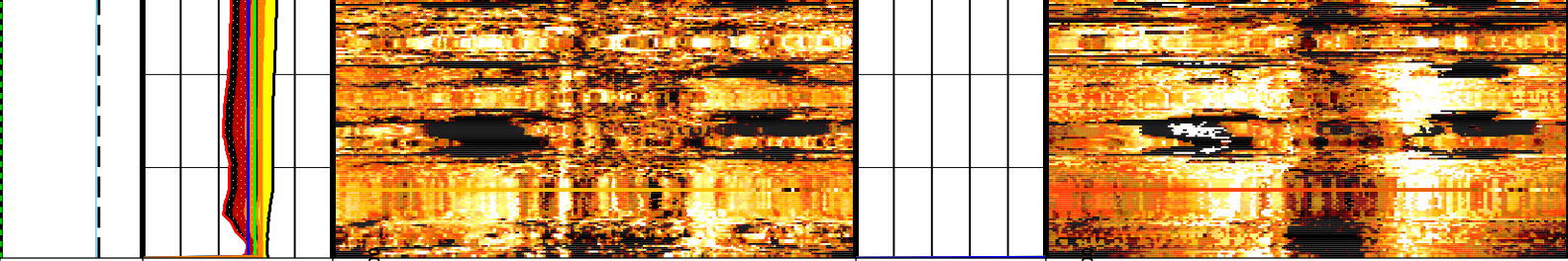
2234

2235

2236

2237





<b>Rev. speed (RSAV)</b> 6 (RPS) 80	<b>LOW Amplitude (FA25)</b> 0 (DB) 50	 <b>Corrected Amplitude (AWCN)</b> (DB)	<b>MEDIAN Radius (FTED)</b> 3 (IN) 4.5	 <b>Corrected transit time (TTCN)</b> (US)
<b>Cable Speed (CS) (M/HR)</b> 0 150000	<b>Min. of Amplitude (UAMN)</b> 0 (DB) 50		<b>Radius LOW (FT25)</b> 3 (IN) 4.5	
<b>Fluid velocity (CFVL) (US/M)</b> 450 750	<b>Maximum of Amplitude (UAMX)</b> 0 (DB) 50		<b>Radius HIGH (FT75)</b> 3 (IN) 4.5	
	<b>MEDIAN of Amplitude (FAED)</b> 0 (DB) 50		<b>Radius min (UTMN)</b> 3 (IN) 4.5	
	<b>HIGH Amplitude (FA75)</b> 0 (DB) 50		<b>Radius max (UTMX)</b> 3 (IN) 4.5	

Format: UBI\_Image Vertical Scale: 1:20 Graphics File Created: 20-Aug-2021 23:59

## OP System Version: 19C0-187

UBI-D	SRPC-5095-H2-2011-OP19	GPIT-A/B	19C0-187
DTA-A	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

### Parameters

DLIS Name	Description	Value
UBI-D: Ultrasonic Borehole Imager - D		
AAMN	Automatic Amplitude Minimum Scale	2 DB
ANGO	Angular Offset	-17 DEG
ATMN	Automatic Transit Time Minimum Scale	2 US
CSID	Casing Inner Diameter	4.125 IN
DCMN	Window Decrement Down	0.8
DCMX	Window Decrement Up	0.6
DFVL	Default Fluid Velocity	201 US/F
DOT	Diameter of Tool	1.85 IN
ECRL	Eccentering Correction Level	FIRST
ERDB	Eccentering Rejection	12 DB
FDOS	FVEL Depth Offset	0 M
FMOS	FVEL Measurement Offset	0 US/F
GCSW	Gain Correction	ON
IMAR	Image Rotation	OFF
LIM1	Minimum Limit Control	AUTO
LIM2	Maximum Limit Control	MANUAL
NBCD	Color Correction Depth Level	80
NBLD	Eccentering Correction Depth Level	1
NCDI	Noise Correction Depth Interval	30
PNSW	Processing Noise Correction	ON
RCSO	Reference Calibrator Standoff	0.795 IN
RJ60	60 Hz Correction	ON
SWLV	Sliding Window Minimum	Inh_18us
SWMX	Sliding Window Maximum	Inh_167us
UFON	UBI Flagging of Lost Echoes	OFF
UGOS	UBI/UCI GPIT Offset	3.63 IN
USCO	Ultrasonic Time Offset	0 US



USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
<b>UHSV: UBI Hole Shape Analysis</b>			
AAMN	Automatic Amplitude Minimum Scale	2	DB
ANGO	Angular Offset	-17	DEG
ATMN	Automatic Transit Time Minimum Scale	2	US
CSID	Casing Inner Diameter	4.125	IN
DCMN	Window Decrement Down	0.8	
DCMX	Window Decrement Up	0.6	
DFVL	Default Fluid Velocity	201	US/F
DOT	Diameter of Tool	1.85	IN
ECRL	Eccentering Correction Level	FIRST	
ERDB	Eccentering Rejection	12	DB
FDOS	FVEL Depth Offset	0	M
FMOS	FVEL Measurement Offset	0	US/F
GCSW	Gain Correction	ON	
IMAR	Image Rotation	OFF	
LIM1	Minimum Limit Control	AUTO	
LIM2	Maximum Limit Control	MANUAL	
NBCD	Color Correction Depth Level	80	
NBLD	Eccentering Correction Depth Level	1	
NCDI	Noise Correction Depth Interval	30	
PNSW	Processing Noise Correction	ON	
RCSO	Reference Calibrator Standoff	0.795	IN
RJ60	60 Hz Correction	ON	
SWLV	Sliding Window Minimum	Inh_18us	
SWMX	Sliding Window Maximum	Inh_167us	
UFON	UBI Flagging of Lost Echoes	OFF	
UGOS	UBI/UCI GPIT Offset	3.63	IN
USTO	Ultrasonic Time Offset	-3	US
USUB	UBI Sub Identifier	Sub_5_inch	
UWKM	Current Working Mode	UBI7_SW500_180_1	
<b>System and Miscellaneous</b>			
BS	Bit Size	9.875	IN

### Output DLIS Files

DEFAULT	UBI_NGS_037LUP	FN:39	PRODUCER	20-Aug-2021 23:59
RTB	UBI_NGS_037LUP	FN:40	PRODUCER	20-Aug-2021 23:59



## Calibrations

### MAXIS Field Log

#### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Micro Electrical Scanner – B (Slim) Wellsite Calibration – Caliper Calibration							
Before: Calibration out of date 13-Jun-2021 22:51							
Caliper 1 Zero Measurement	12.00	N/A	12.76	N/A	N/A	N/A	IN
Caliper 2 Zero Measurement	12.00	N/A	12.49	N/A	N/A	N/A	IN
Caliper 1 Plus Measurement	15.19	N/A	15.69	N/A	N/A	N/A	IN
Caliper 2 Plus Measurement	15.19	N/A	15.53	N/A	N/A	N/A	IN
Micro Electrical Scanner – B (Slim) Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 20-Aug-2021 16:45							
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: 20-Aug-2021 16:45							
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: Calibration out of date 2-May-2021 10:04 Before: 20-Aug-2021 4:46 After: 20-Aug-2021 8:42

Na 511 Peak Loc	40.00	39.25	39.60	39.74	0.1407	1.000	
Na 511 Peak Res	15.50	16.53	15.84	15.11	-0.7305	2.000	%
High Voltage	1150	1197	1177	1179	1.847	N/A	V
Na 1785 Peak Loc	142.6	141.8	142.7	142.9	0.2140	7.000	
Na 1785 Peak Res	8.500	8.905	8.955	8.354	-0.6012	2.000	%
Temperature	15.50	26.59	16.70	16.28	-0.4200	N/A	DEGC
Na Count Rate	45.00	12.01	10.52	10.31	-0.2124	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: Calibration out of date 2-May-2021 10:04 Before: 20-Aug-2021 4:46 After: 20-Aug-2021 8:42

Na 511 Peak Loc	40.00	39.88	39.56	39.74	0.1846	1.000	
Na 511 Peak Res	15.50	15.29	16.20	15.07	-1.130	2.000	%
High Voltage	1150	1122	1104	1104	-0.2054	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.8	141.7	-1.096	7.000	
Na 1785 Peak Res	8.500	8.040	8.953	9.597	0.6440	2.000	%
Temperature	15.50	27.21	17.38	17.80	0.4184	N/A	DEGC
Na Count Rate	45.00	12.32	10.17	10.10	-0.07357	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: 20-Aug-2021 4:46 After: 20-Aug-2021 8:42

Coincidence Count Rate Ratio	1.000	0.9728	1.036	1.020	-0.01542	0.05000	
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Micro Electrical Scanner – B (Slim) / Equipment Identification

Primary Equipment:

MEST Sonde – B	MEDS – B	724
MEST Preamplifier Cartridge – AB	MEPC – AB	806
GPIT Cartridge – AC	GPIC – AC	840
MEST Acquisition Cartridge – A	MEAC – A	804

Auxiliary Equipment:

MEST-B Preamplifier Cartridge Housing	MEPH – A	701
MEST Acquisition Cartridge Housing (Slim)	MEAH – B	769

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	304
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Auxiliary Equipment:

HNGC Housing	HNGH – A	3
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS – BA	99
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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	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		39.25	Master		16.53	Master		1197	
Before		39.60	Before		15.84	Before		1177	
After		39.74	After		15.11	After		1179	
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		141.8	Master		8.905	Master		26.59	

Before		142.7	Before		8.955	Before		16.70
After		142.9	After		8.354	After		16.28
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		12.01						
Before		10.52						
After		10.31						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: Calibration out of date 2-May-2021 10:04			Before: 20-Aug-2021 4:46			After: 20-Aug-2021 8:42		

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		39.88	Master		15.29	Master		1122
Before		39.56	Before		16.20	Before		1104
After		39.74	After		15.07	After		1104
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		142.6	Master		8.040	Master		27.21
Before		142.8	Before		8.953	Before		17.38
After		141.7	After		9.597	After		17.80
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		12.32						
Before		10.17						
After		10.10						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: Calibration out of date 2-May-2021 10:04			Before: 20-Aug-2021 4:46			After: 20-Aug-2021 8:42		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9728
Before		1.036
After		1.020
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: Calibration out of date 2-May-2021 10:04		
Before: 20-Aug-2021 4:46		
After: 20-Aug-2021 8:42		

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge  
DTC-H Telemetry Cartridge

DTCH - A 8799  
DTCH - A 8799

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC 9842

Company: **International Ocean Discovery Program**

**Schlumberger**

Well: **Expedition 396, Site U1566A**

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

Rig: **JOIDES Resolution**

Country: **Iceland**

Ultrasonic Borehole Imager (UBI)