REC'D OCT 14 2011

Schlumberger

Company: OXY US LA BASIN

CONFIDENTIAL

Well: DOM-001
Field: Dominguez
County: Los Angeles State: California

FORMATION MICRO IMAGER
GAMMA RAY TIE IN

County: Los Angeles
Field: Dominguez
Location: SURFACE LAMBERT COORDIN
Well: DOM-001
Company: OXY US LA BASIN

LOCATION

SURFACE LAMBERT COORDINATES
N: 4 062 754.8
E: 4 214 067.32

Elev.: K.B. 194.09 ft
G.L. 168.97 ft
D.F. 194.09 ft

Permanent Datum: GROUND LEVEL Elev.: 168.97 ft
Log Measured From: DERRICK FLOOR 25.03 ft above Perm. Datum
Drilling Measured From: DERRICK FLOOR

API Serial No.	Section	Township	Range
037-27124	33	3S	13W

	Run 1	Run 2
Logging Date	11-Dec-2010	
Run Number	THREE	
Depth Driller	8508 ft	
Schlumberger Depth	8517 ft	
Bottom Log Interval	8511 ft	
Top Log Interval	1995 ft	
Casing Driller Size @ Depth	13.375 in @ 1997 ft	@
Casing Schlumberger	1995 ft	
Bit Size	12.250 in	
Type Fluid In Hole	8% KCL - GELITE	
MUD Density / Viscosity	10 lbm/gal / 48 s	
MUD Fluid Loss / PH	4.2 cm3 / 7.6	
MUD Source Of Sample	FLOWLINE	
RM @ Measured Temperature	0.107 ohm.m @ 91 degF	@
RMF @ Measured Temperature	0.103 ohm.m @ 84 degF	@
RMC @ Measured Temperature	0.177 ohm.m @ 84 degF	@
Source RMF / RMC	MUD PRESS / MUD PRESS	
RM @ MRT / RMF @ MRT	0.051 @ 198 / 0.046 @ 198	@ / @
Maximum Recorded Temperatures	198 degF	
Circulation Stopped Time	10-Dec-2010 22:00	
Logger On Bottom Time	11-Dec-2010 11:28	
Unit Number / Location	2363 / BAKERSFIELD	
Recorded By	JARROD LONG	
Witnessed By	CHRIS PHILLIPS	

	Run 1	Run 2
Logging Date		
Run Number		
Depth Driller		
Schlumberger Depth		
Bottom Log Interval		
Top Log Interval		
Casing Driller Size @ Depth	@	
Casing Schlumberger		
Bit Size		
Type Fluid In Hole		
MUD Density / Viscosity	/	
MUD Fluid Loss / PH	/	
MUD Source Of Sample		
RM @ Measured Temperature	@	
RMF @ Measured Temperature	@	
RMC @ Measured Temperature	@	
Source RMF / RMC	/	
RM @ MRT / RMF @ MRT	@ / @	
Maximum Recorded Temperatures		
Circulation Stopped Time		
Logger On Bottom Time		
Unit Number / Location	/	
Recorded By		
Witnessed By		

DEPTH SUMMARY LISTING

Date Created: 12-DEC-2010 4:20:50

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-48A SUS
Serial Number:	Serial Number:	Serial Number:
Calibration Date:	Calibration Date:	Length: 20300 FT
Calibrator Serial Number:	Calibrator Serial Number:	Conveyance Method: Wireline
Calibration Cable Type: 7-46P	Number of Calibration Points: 0	Rig Type: LAND
Wheel Correction 1:		
Wheel Correction 2:		

Depth Control Parameters

Log Sequence: Subsequent Log In the Well

Reference Log Name: PLATFORM EXPRESS
Reference Log Run Number: TWO
Reference Log Date: 11-NOV-2010

Depth Control Remarks

1.
2.
3.
4.
5.
6.

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

OTHER SERVICES1	OTHER SERVICES2
OS1: ECS-HGNS	OS1:
OS2: PEX-MSIP	OS2:
OS3: CMR-XPT	OS3:
OS4: CST	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
SUBSEQUENT TRIP TO WELL	
LOG CORRELATED TO PLATFORM EXPRESS	
DATED 11-DEC-2010	

PAN WITH 20 PAD PRESSURE	
AUTO GAIN LOW RANGE	
CLIENT REQUESTED FROM TD - 3900 FT	
RIG: H&P 262	
THANK YOU FOR USING SCHLUMBERGER!	

RUN 1			RUN 2		
SERVICE ORDER #:	AUYB-00225		SERVICE ORDER #:		
PROGRAM VERSION:	18C0-147		PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

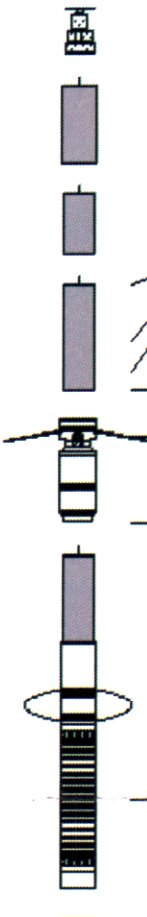
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

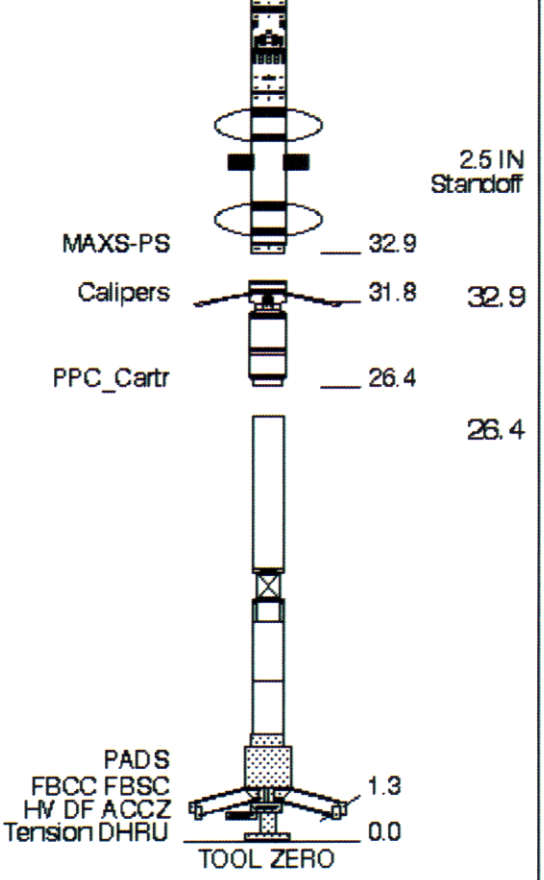
SURFACE EQUIPMENT

WITM (EDTS)-A

DOWNHOLE EQUIPMENT

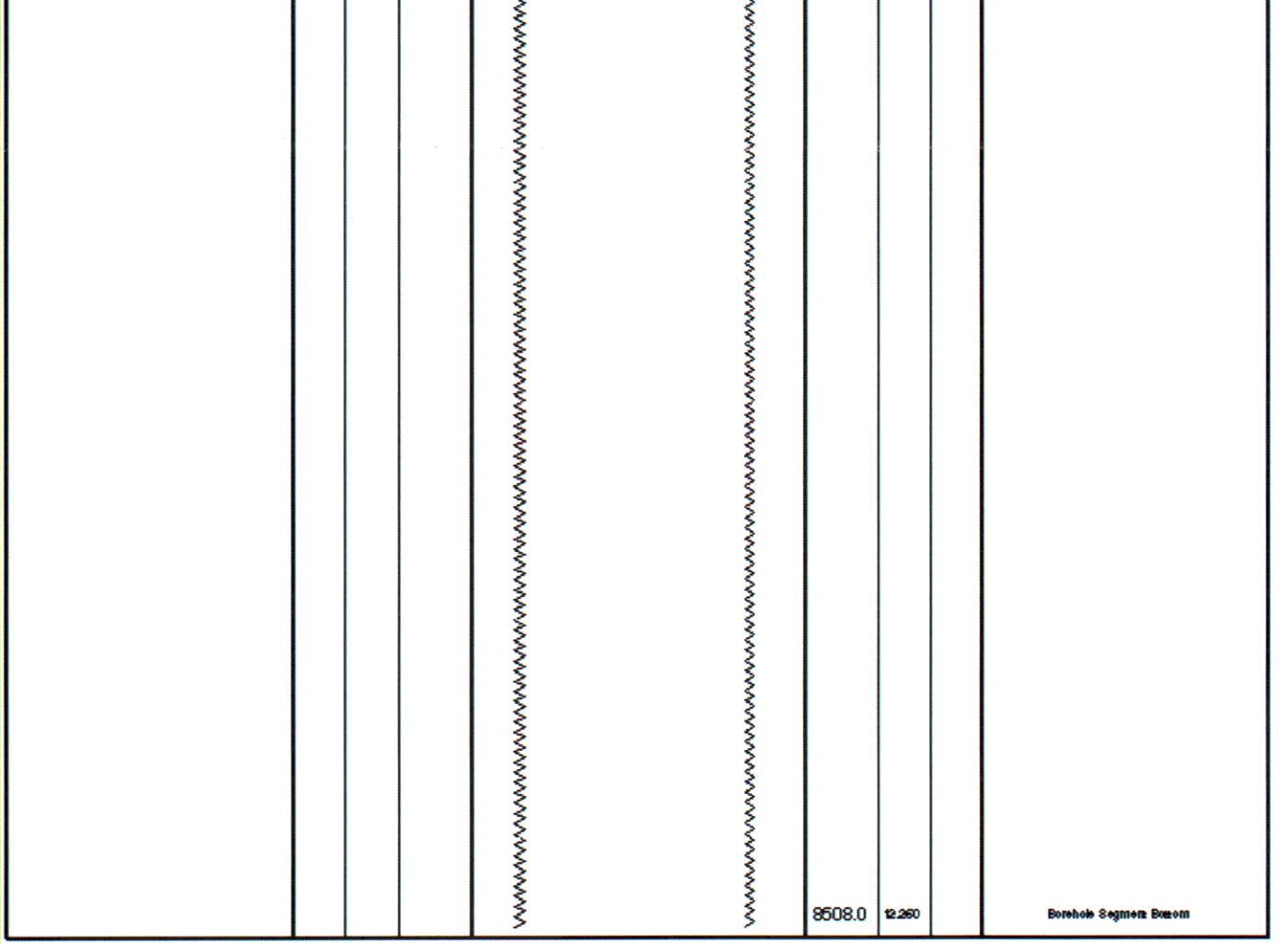


LEH-QT LEH-QT		98.8
SAH-F SAH-F		95.9
HTCS-A HTCS-A		91.0
EDTC-B 8537 EDTH-B EDTC-B EDTG-A/B	87.2 83.7 81.8 80.7	87.2
PPC2-B 8277 PPC2-B PPC_CAL_STD	79.6 74.2	80.7
MAPC-B MAPC-BA 8177 ECH-SF 8177 MAMS-BA 8177		74.2
	58.8	
MAXS-B MASS-BA 8075 MAXS-BA 8136		53.2



MAXIMUM STRING DIAMETER 8.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Production String	(in) OD	(in) ID	(ft) MD	Well Schematic	(ft) MD	(in) OD	(in) ID	Casing String
					0.0	13.375		Casing String
					1997.0	13.375		Casing Shoe
					1997.0	12.250		Borehole Segment



ALL DEPTHS ARE DRILLER'S DEPTHS

Company: OXY US LA BASIN **Well: DOM-001**

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_053LUP	FN:74	PRODUCER	11-Dec-2010 22:05	8518.0 FT	1663.0 FT

Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_060PUP	FN:87	PRODUCER	12-Dec-2010 04:50
RTB	FMI_CAL_MAXS_MAPC_060PUP	FN:88	PRODUCER	12-Dec-2010 04:50
CLIENT	FMI_CAL_MAXS_MAPC_060PUC	FN:89	CUSTOMER	12-Dec-2010 04:50

OP System Version: 18C0-147

FBST-B	18C0-147	PPC1-B	18C0-147
MAXS-B	SKK-3935-MAST	MAPC-B	SKK-3935-MAST
PPC2-B	18C0-147	EDTC-B	18C0-147

PIP SUMMARY

Time Mark Every 60 S

	FMI Correlation Resistance

FMI Correlation Resistance (LOG) (FBCR)
2 (KOHM) 2000

Relative Bearing (RB_FBST)
-40 (DEG) 360

Pad One Azimuth (P1AZ_FBST)
-40 (DEG) 360

Hole Azimuth (HAZIM)
-40 (DEG) 360

Gamma Ray (GR_EDTC)
50 (GAPI) 150

Tool/Tot. Drag From D4T to STIA

Deviation (DEVIM)
0 (DEG) 10

Tension (TENS)
10000 (LBF) 0

Cable Drag From D4T to STIT

Caliper 2 (C2)
10 (IN) 20

EMEX Intensity (EI)
0 (AMPS) 10

FMI resistivity buttons #1 to 16
RB16 RB15 RB14 RB13 RB12 RB11 RB10 RB9 RB8 RB7 RB6 RB5 RB4 RB3 RB2 RB1

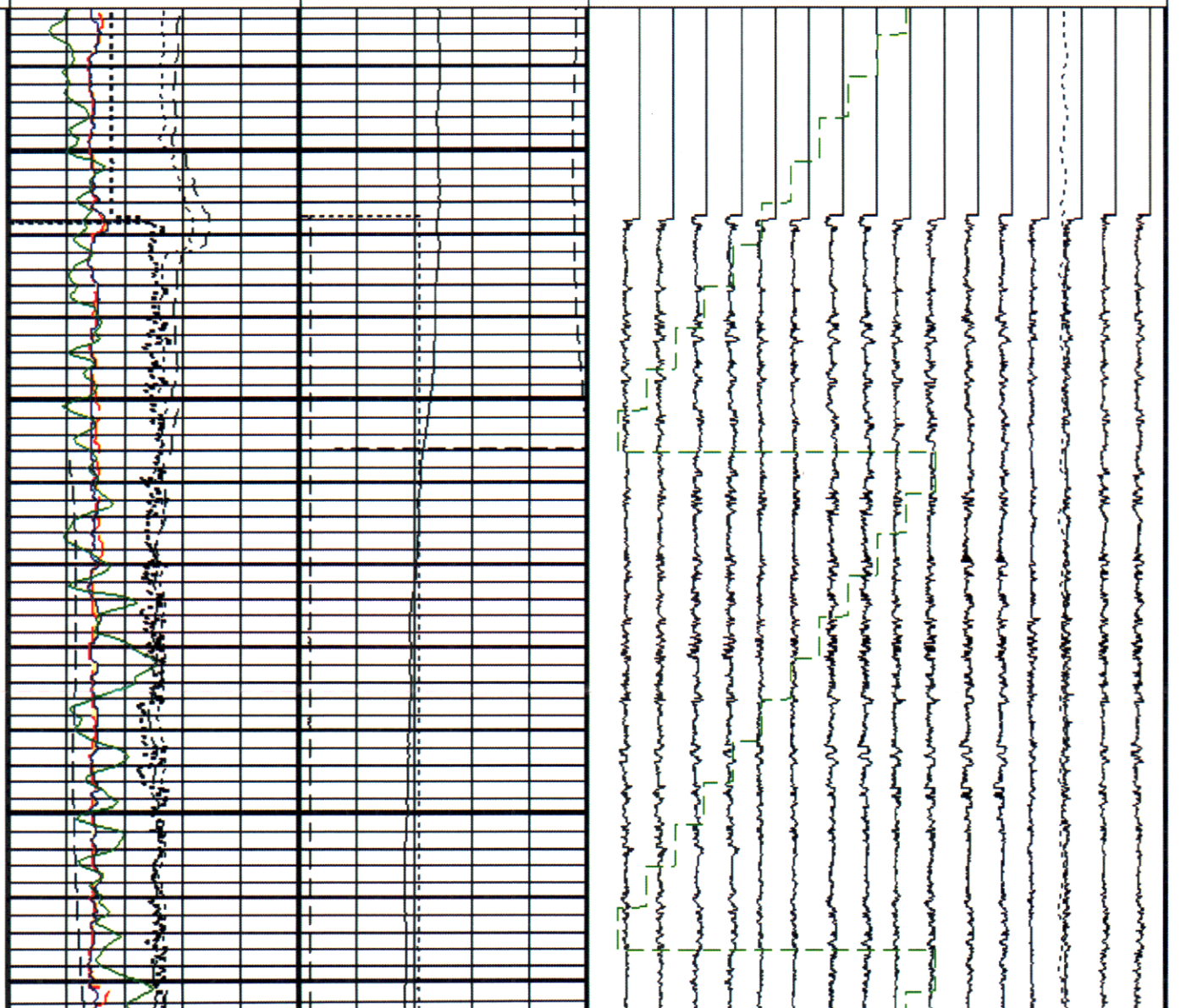
Stuck Stretch (STIT)
0 (F) 50

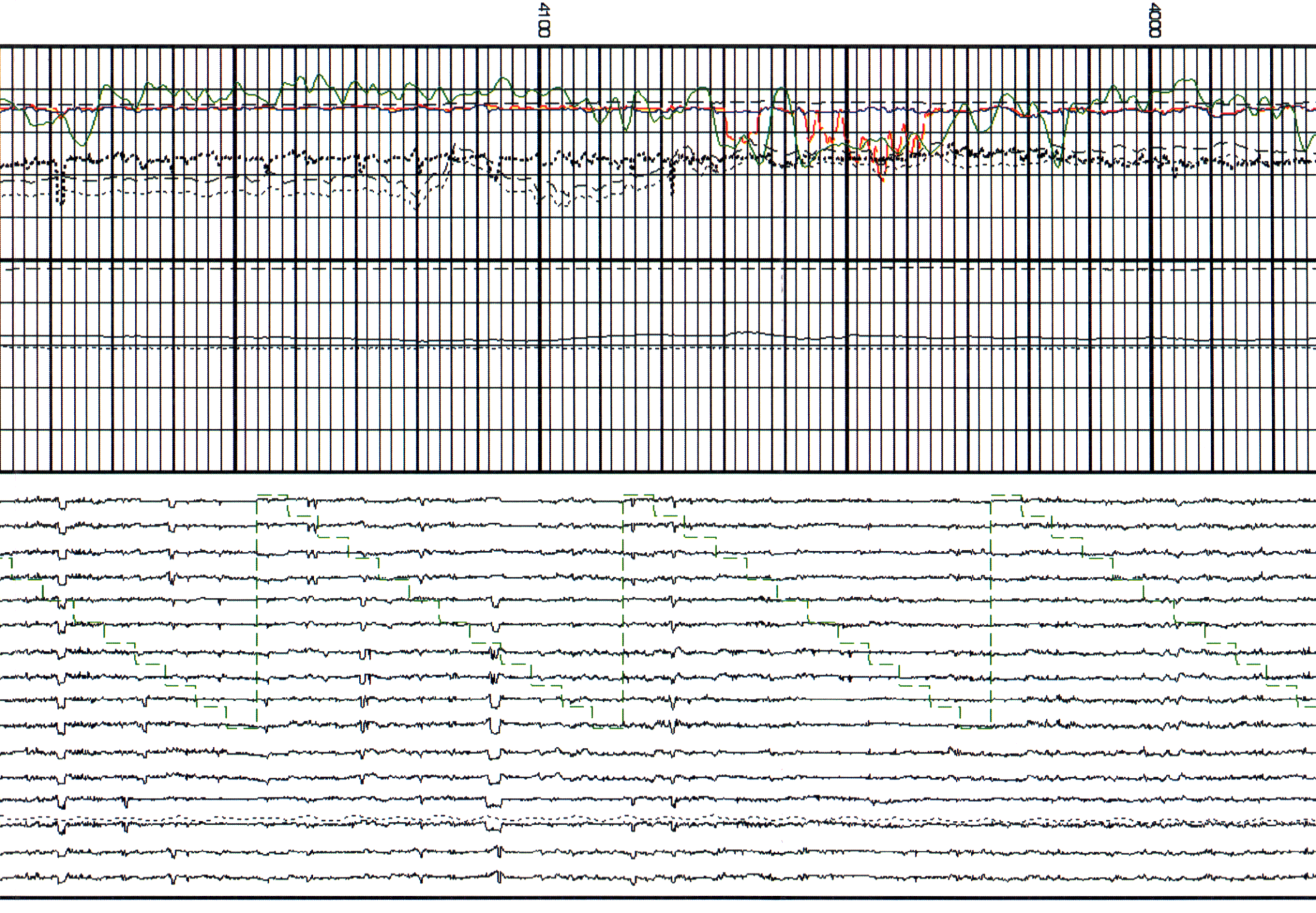
Caliper 1 (C1)
10 (IN) 20

EMEX Voltage (EV)
0 (V) 50

FMI RBS Value (RBSV)
0 (----) 20

3900

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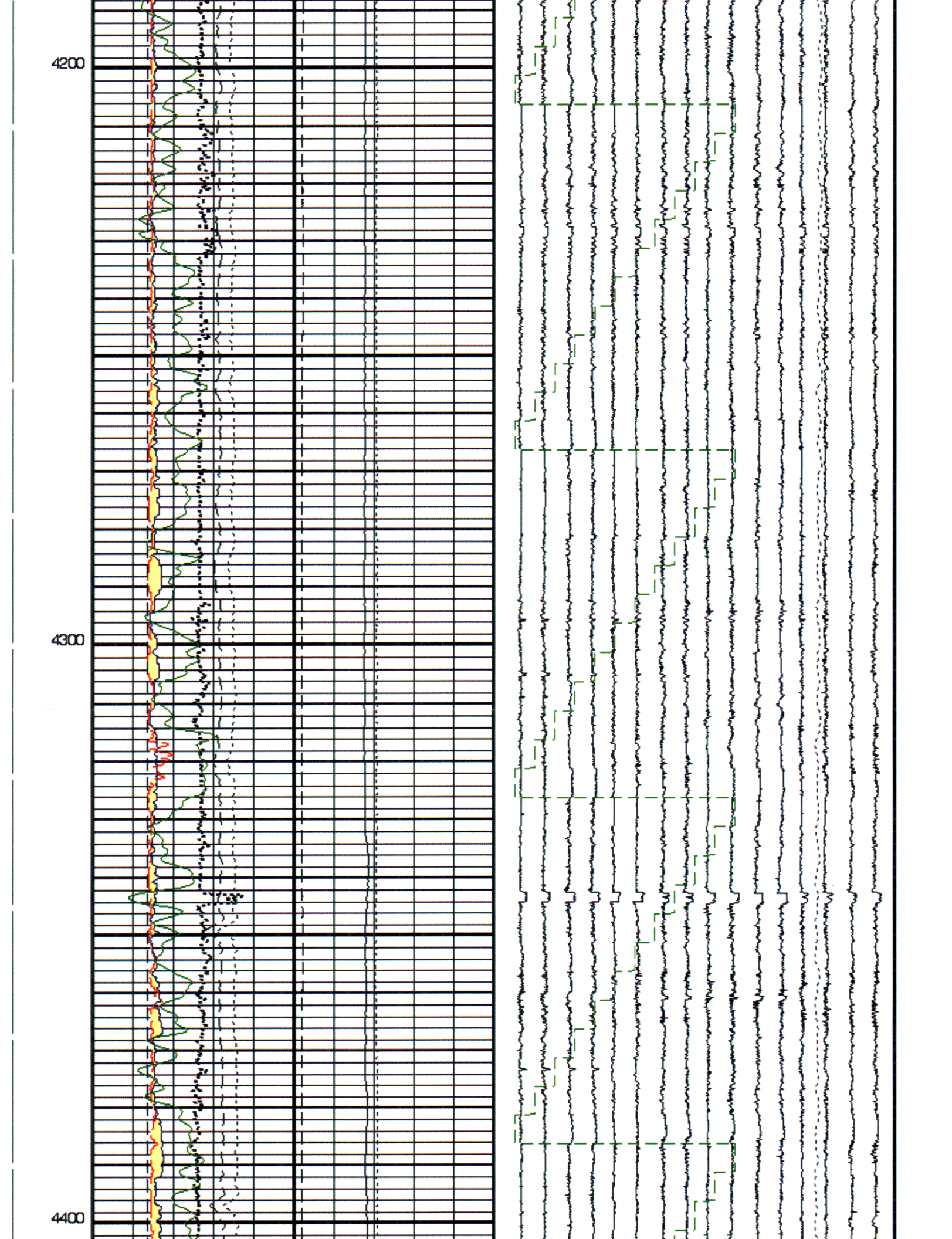
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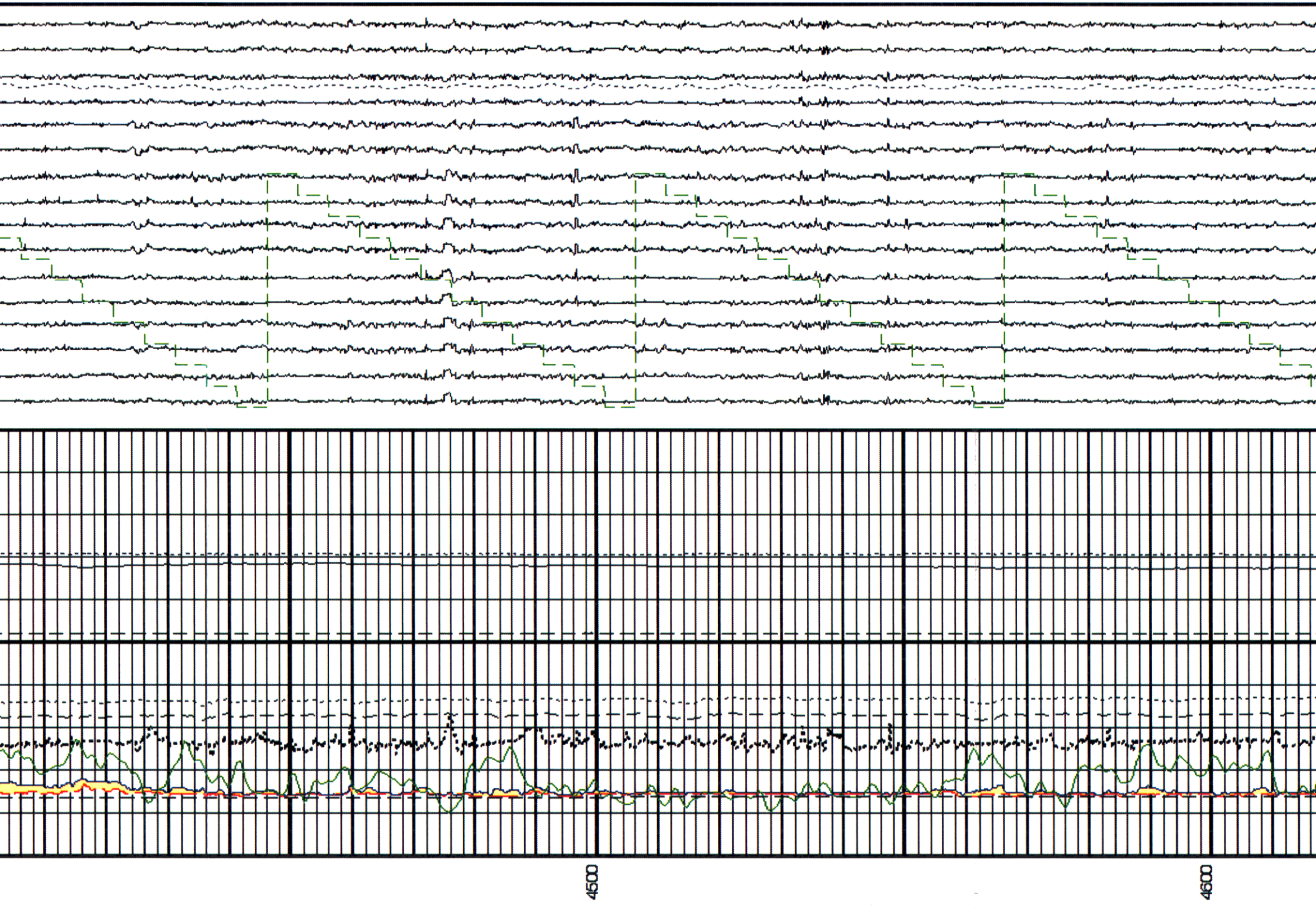

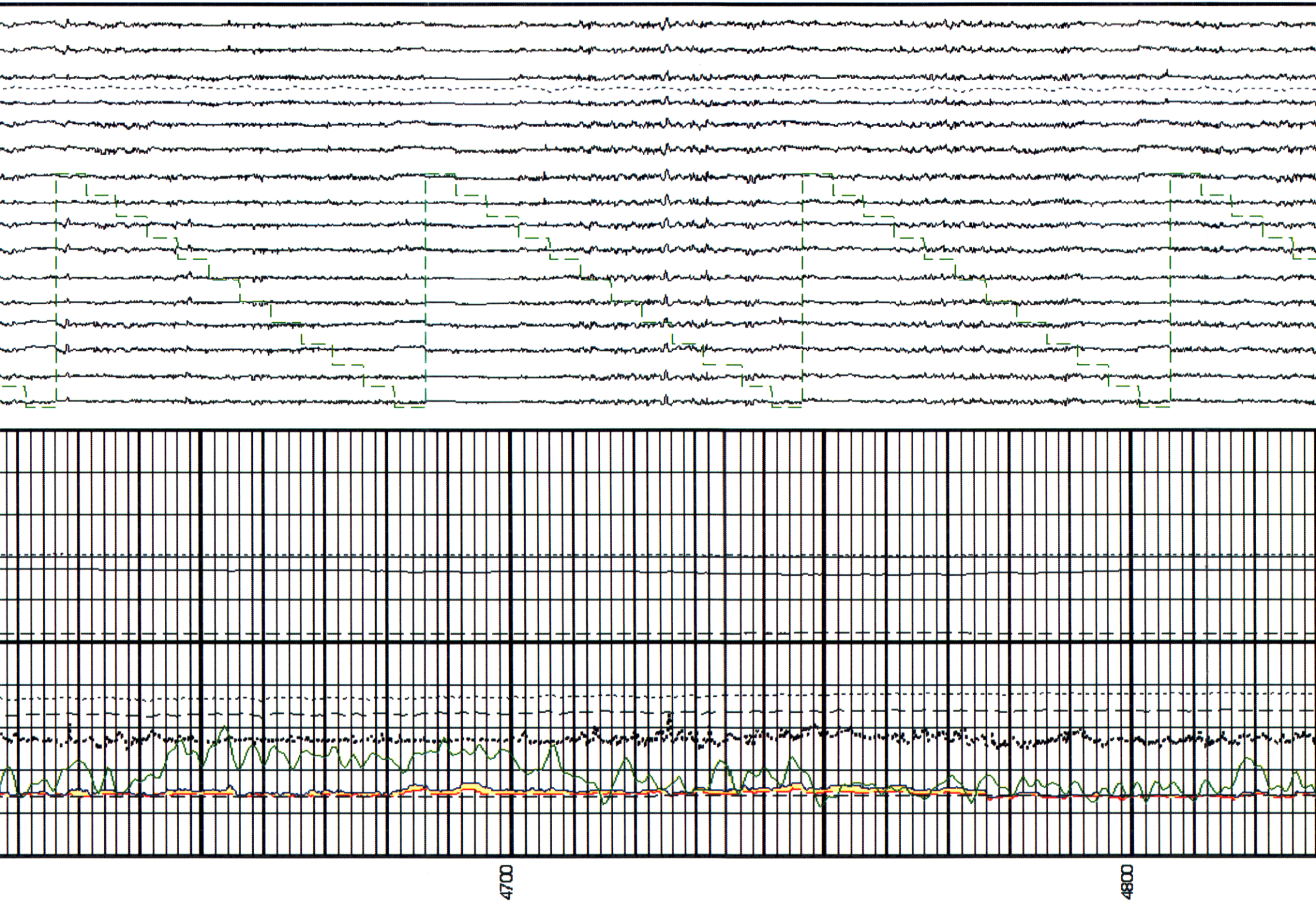
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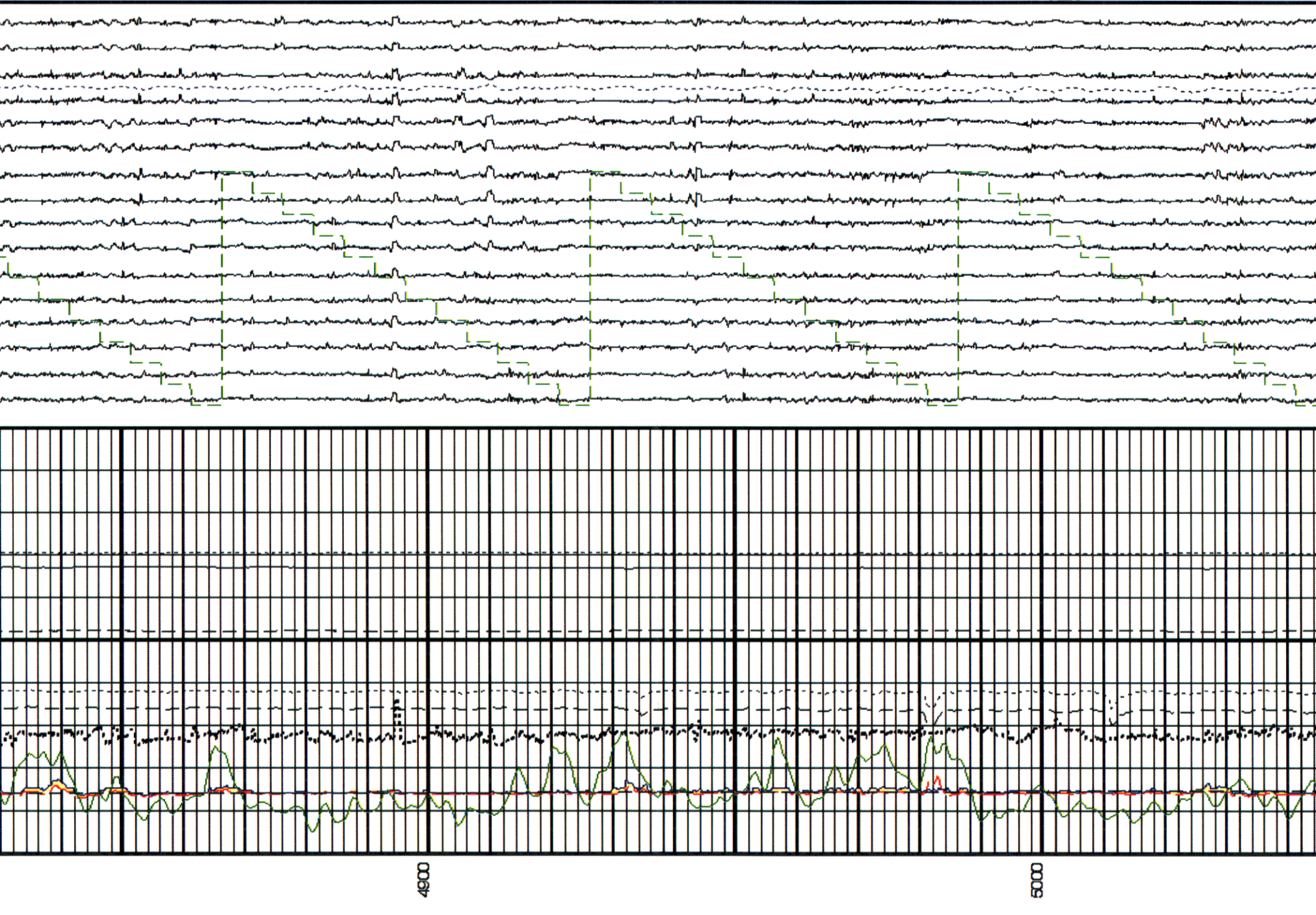

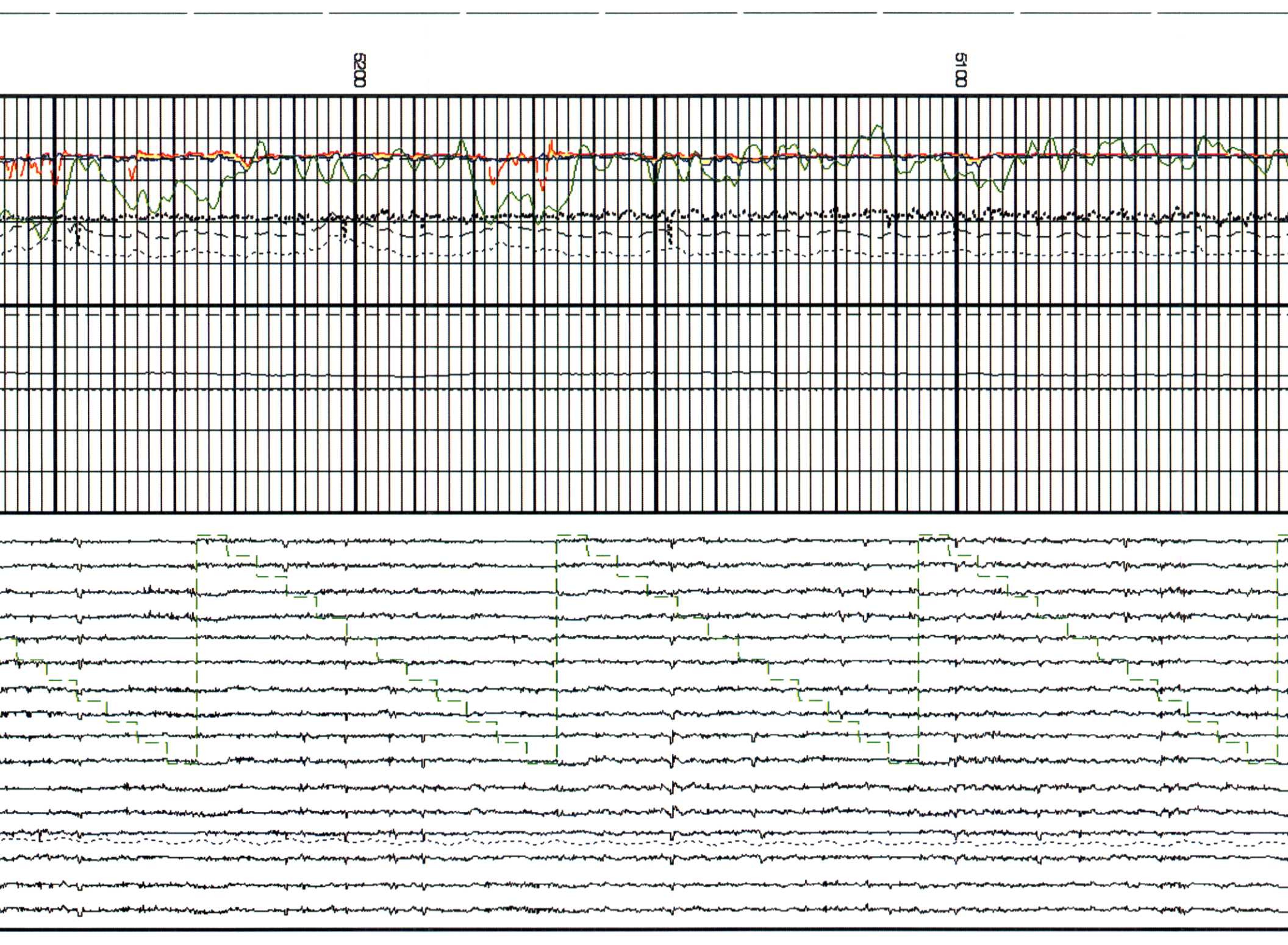
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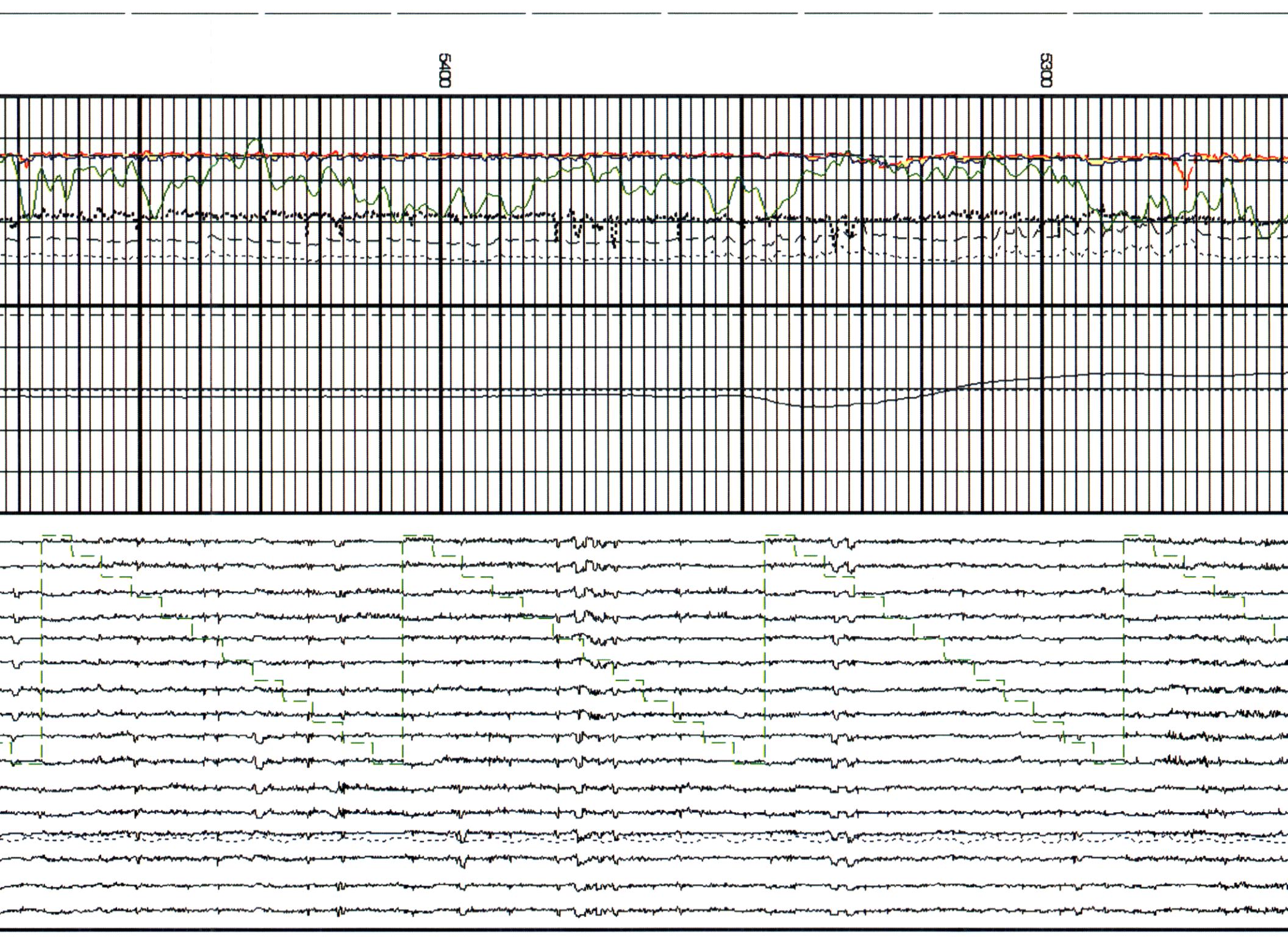

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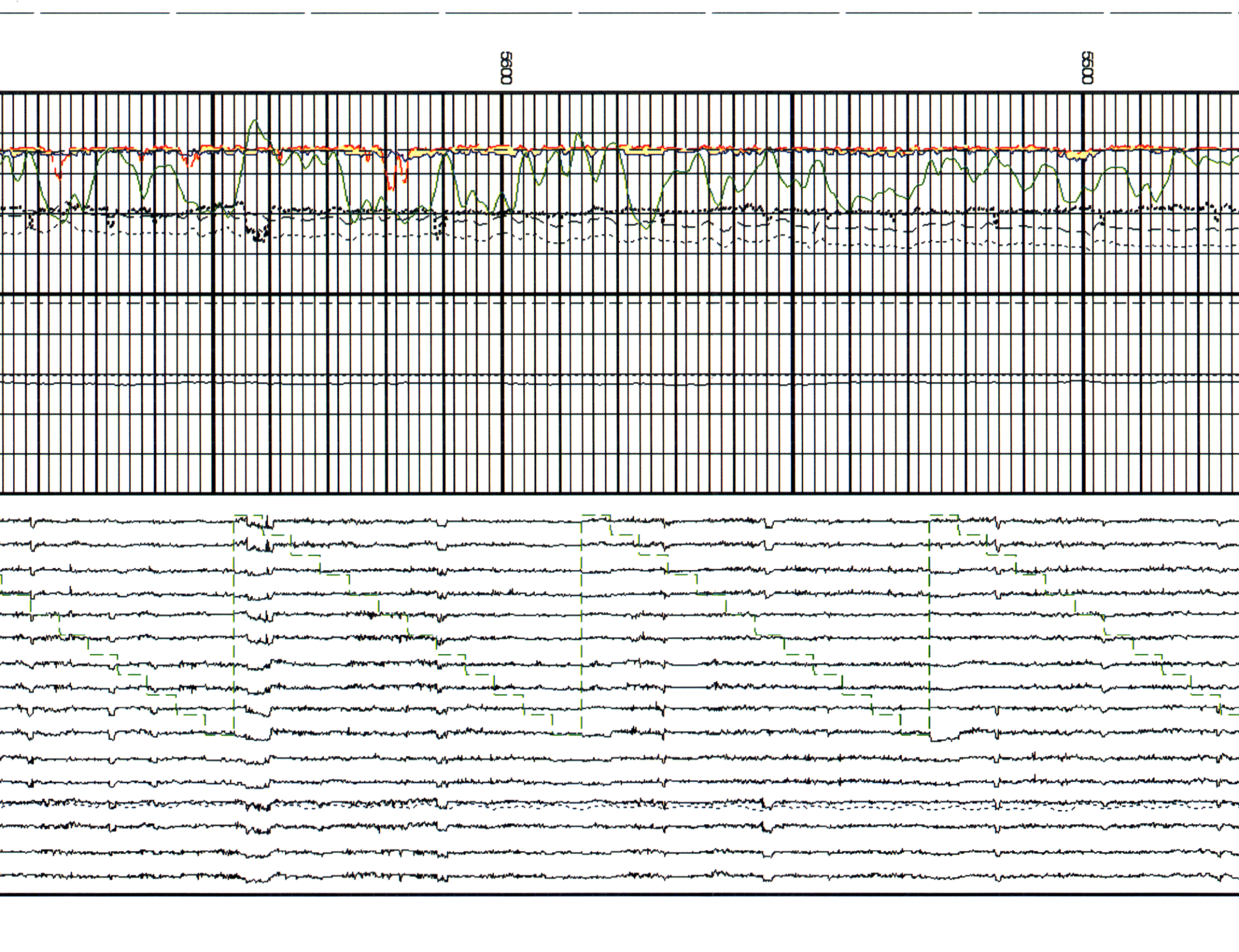
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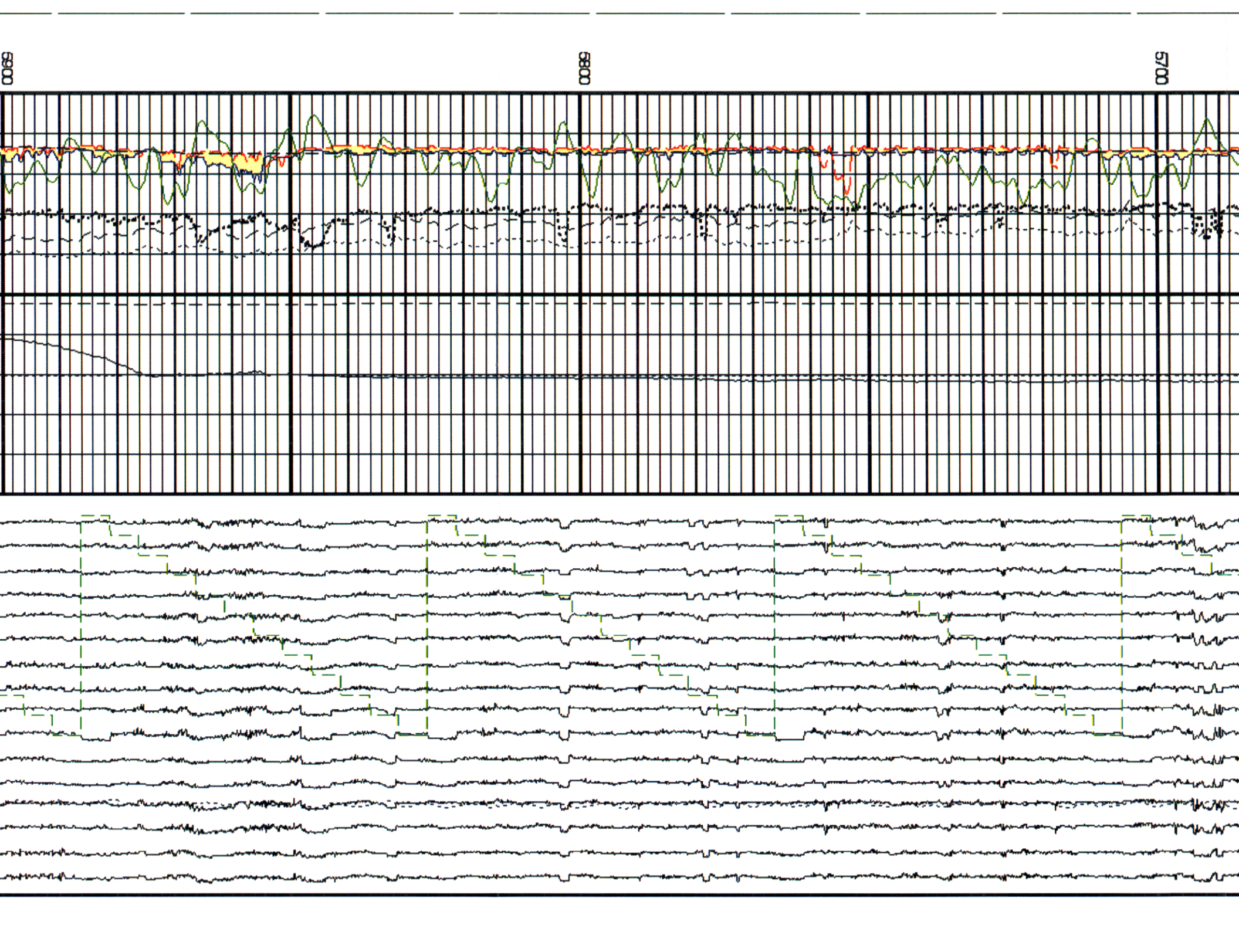
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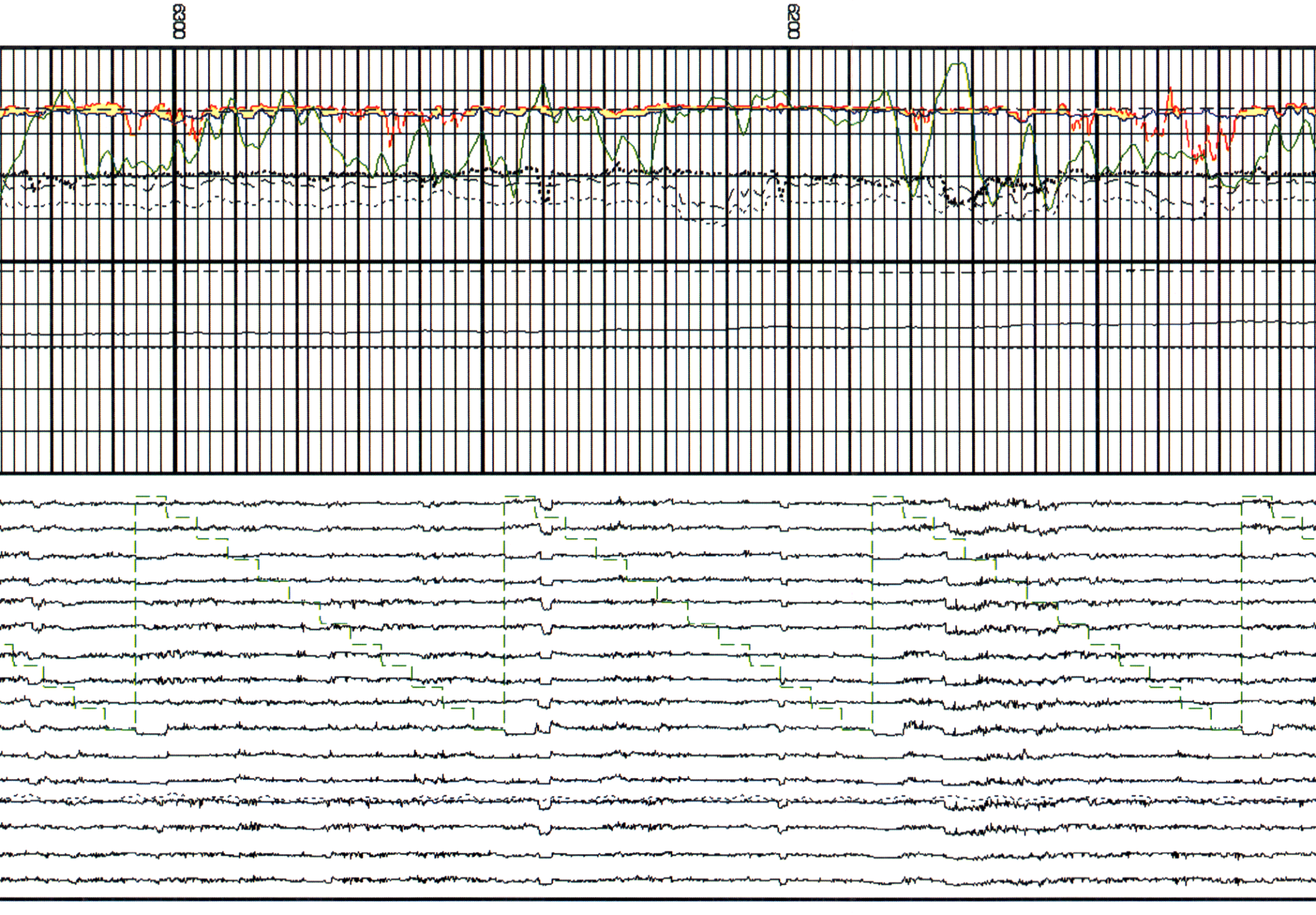
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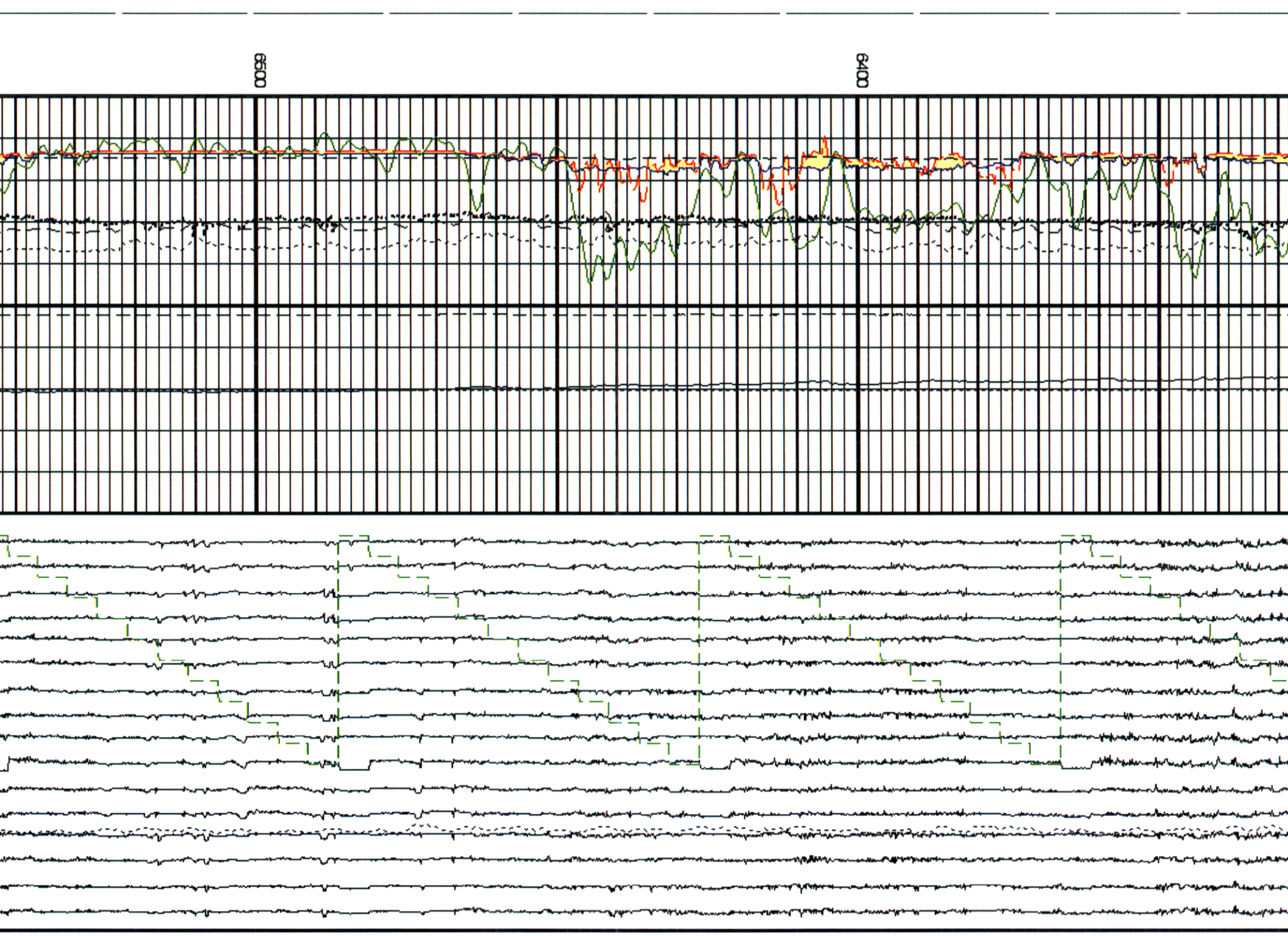

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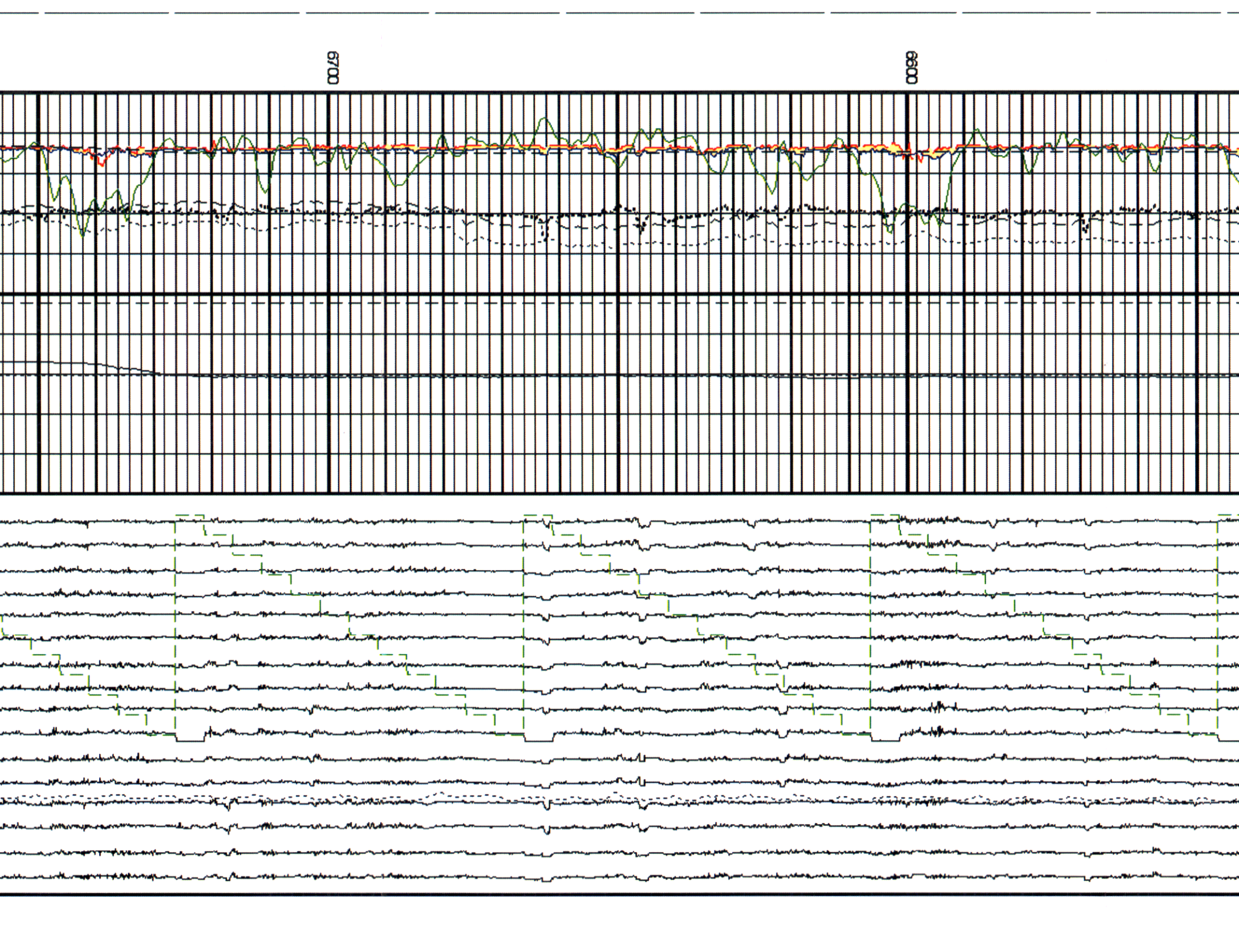
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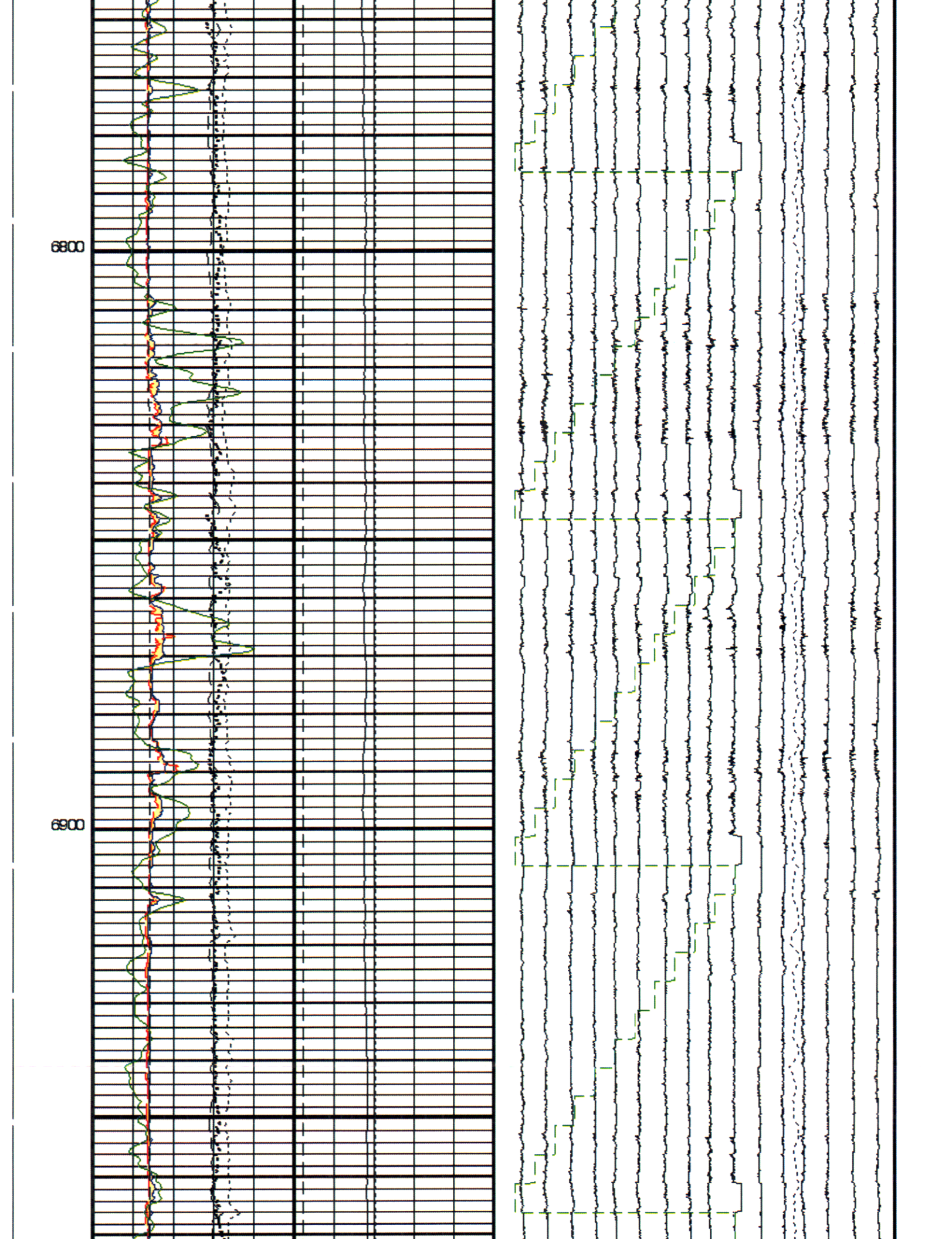
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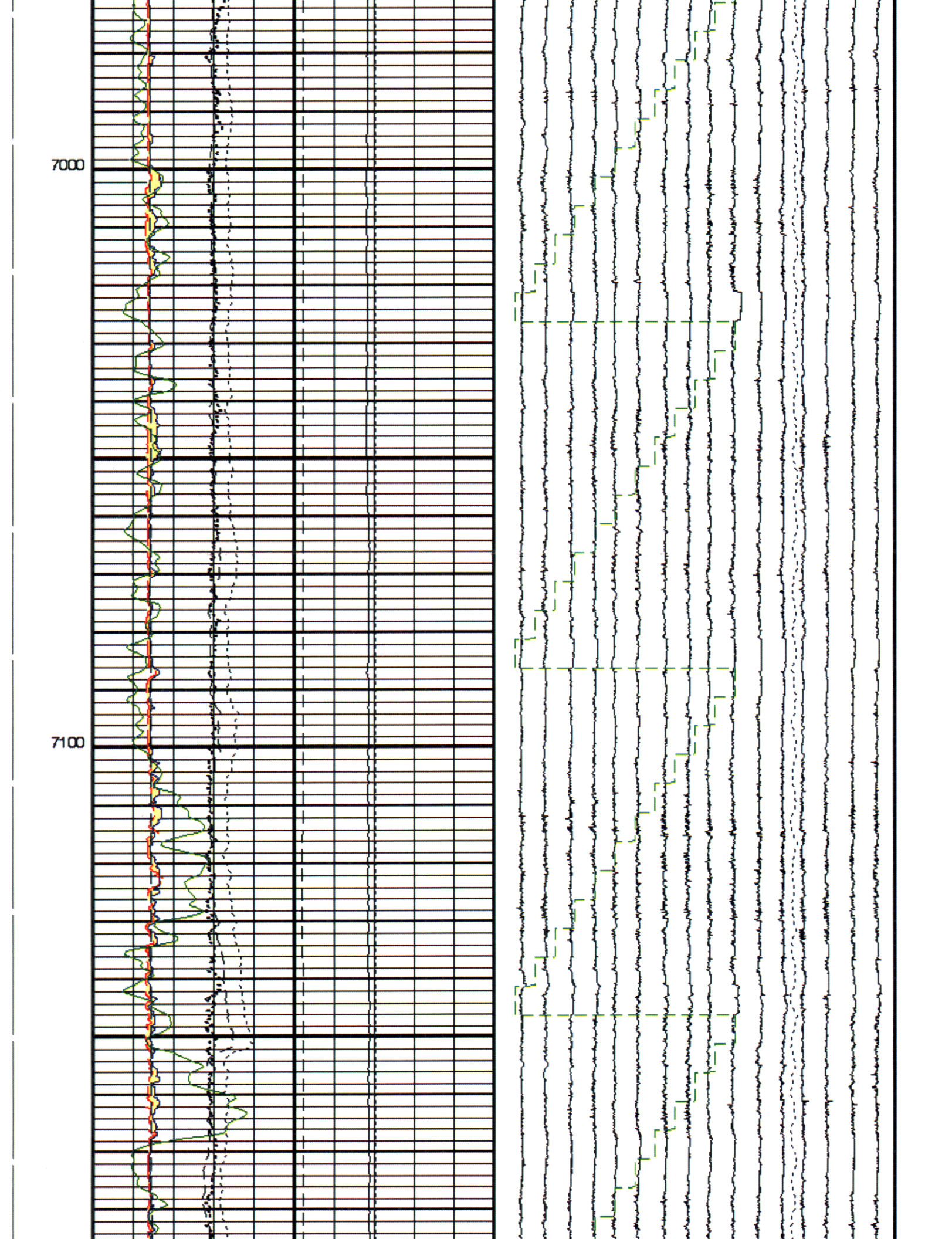
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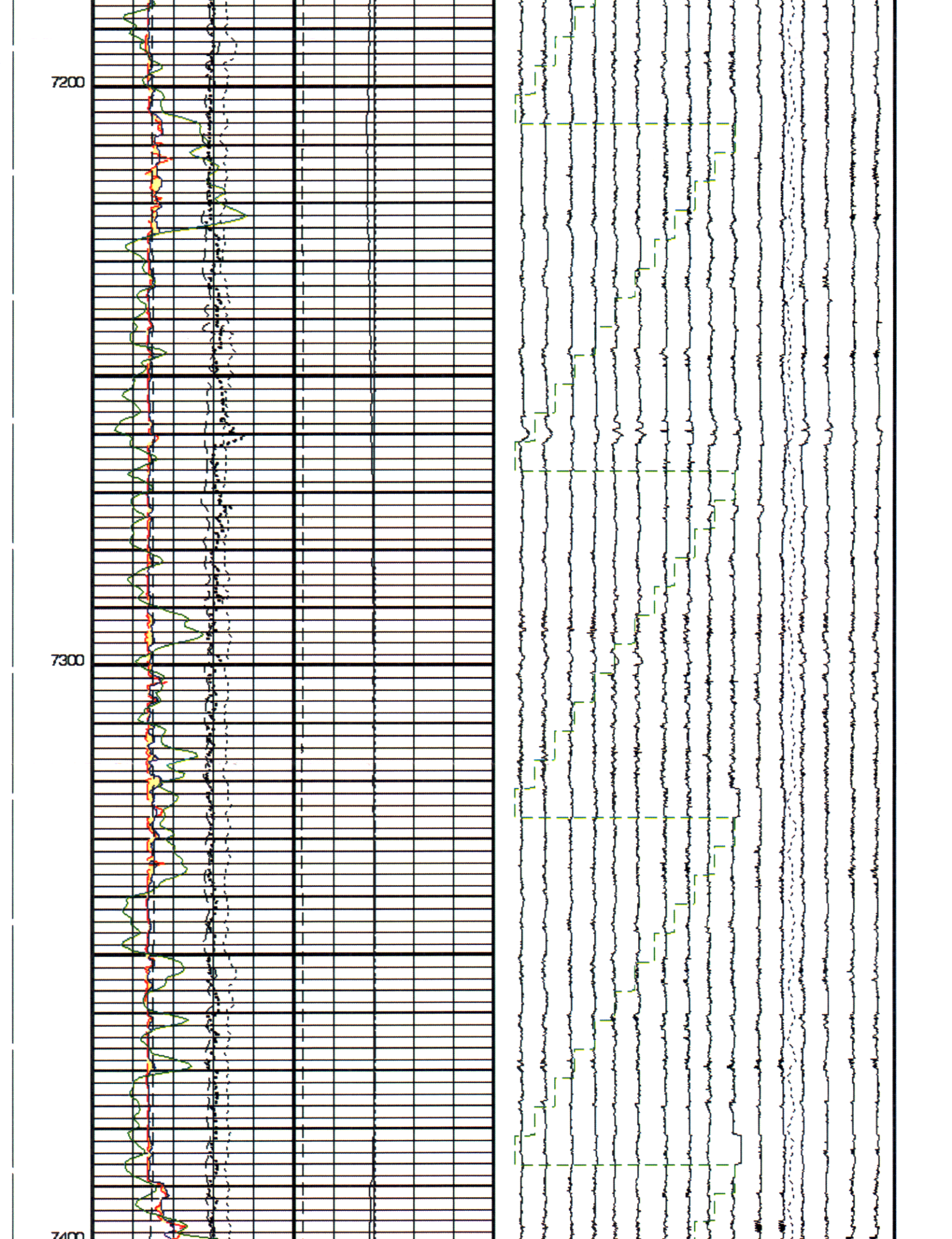
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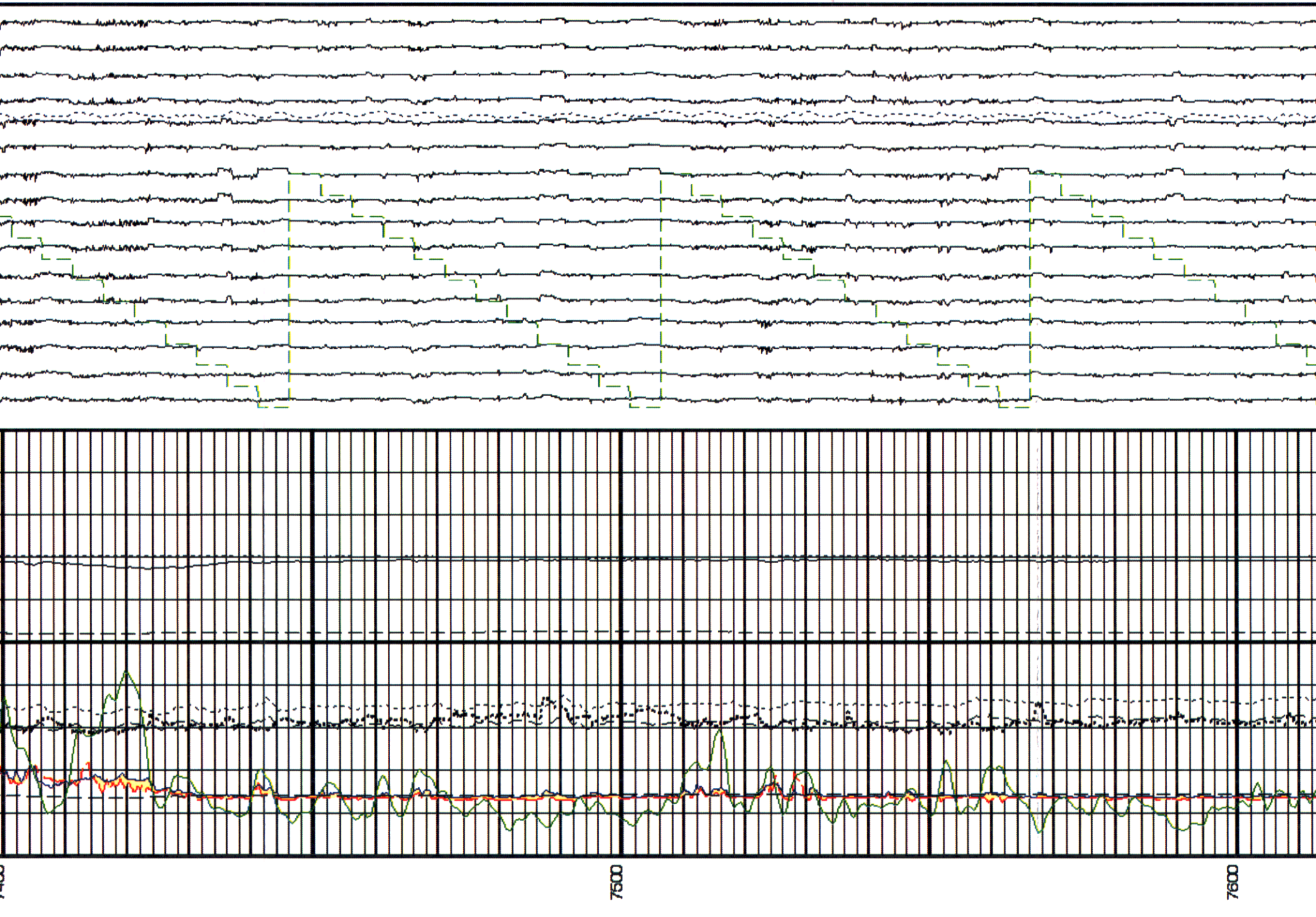
REC'D OCT 14 2011



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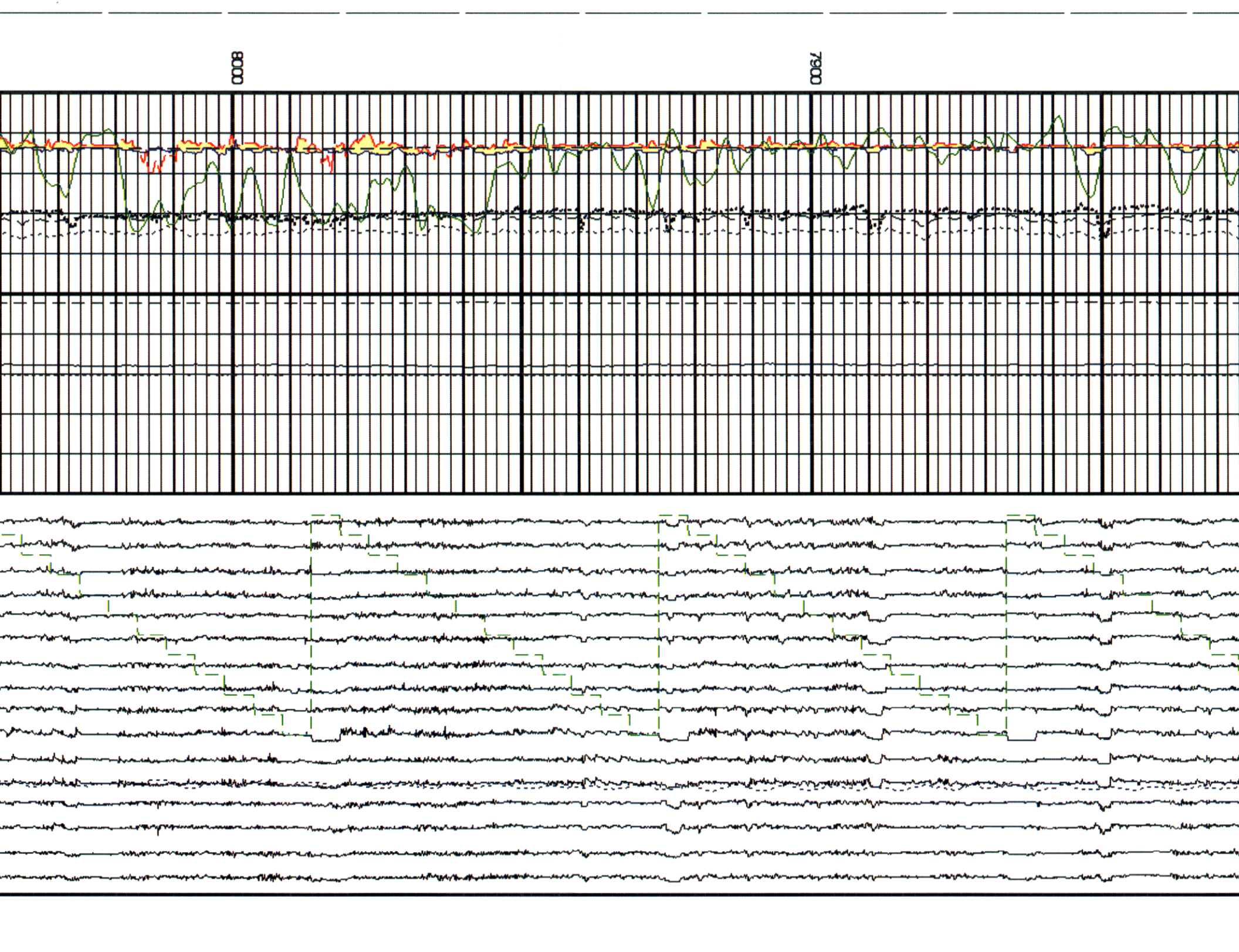
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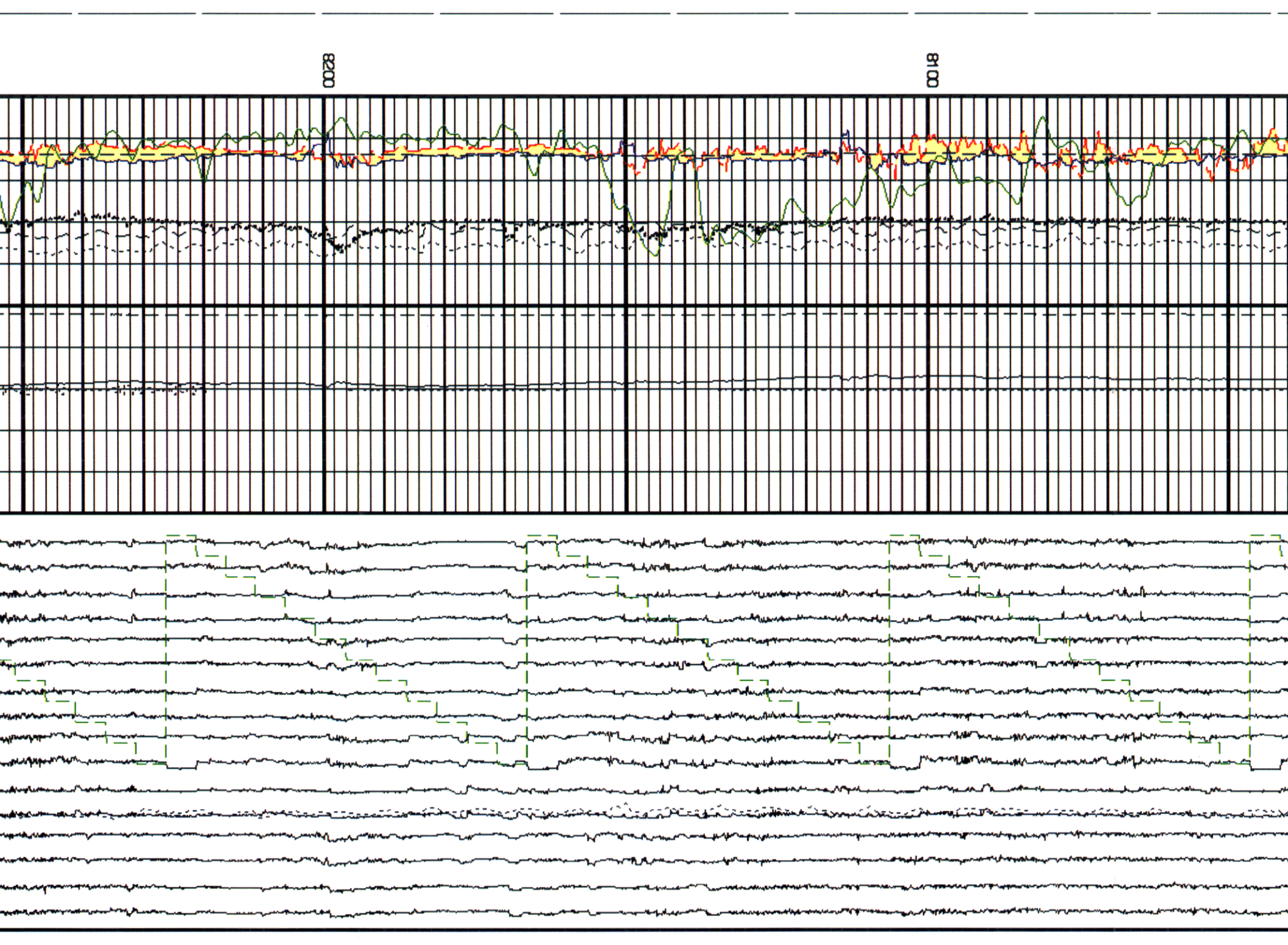
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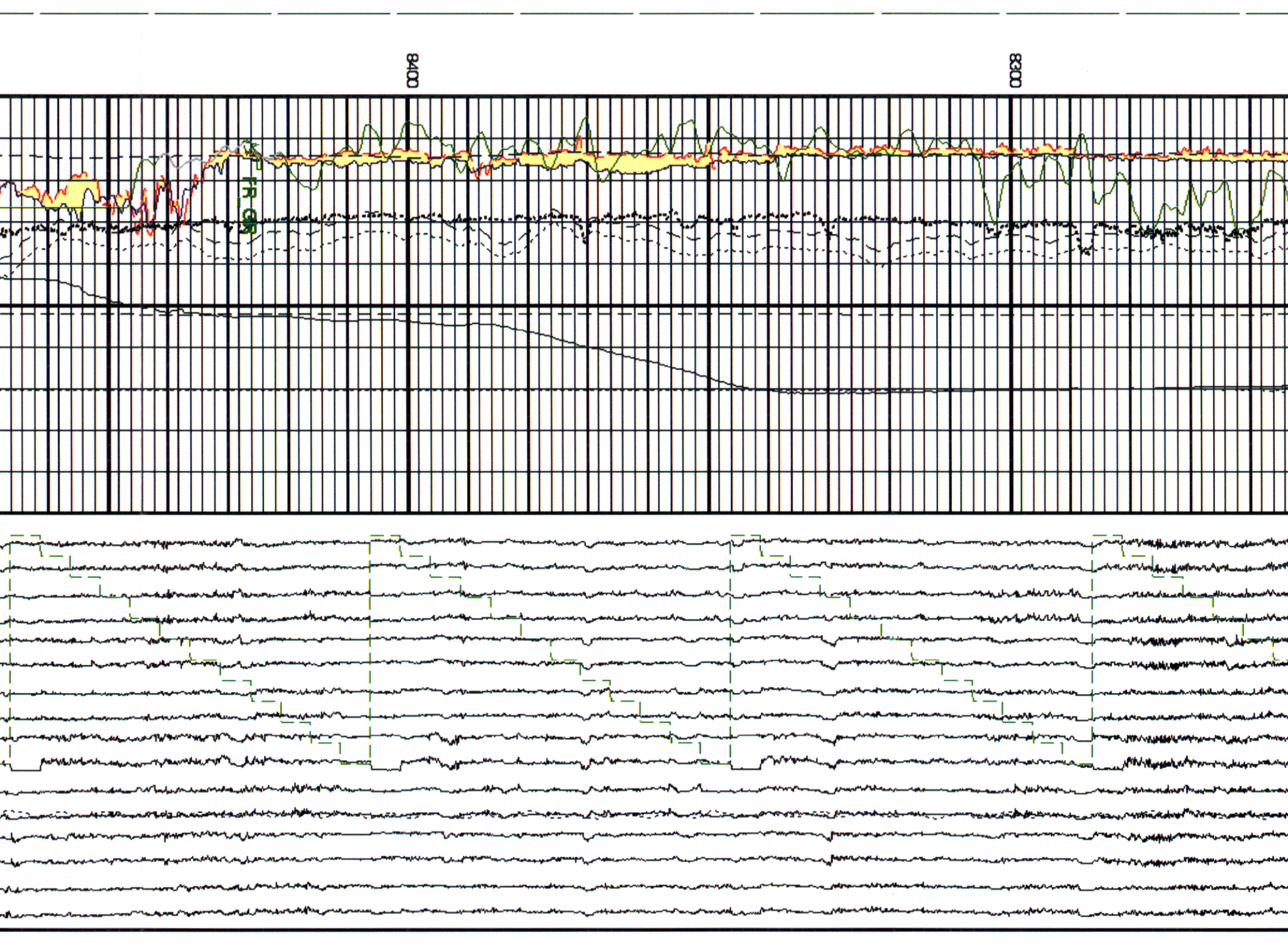
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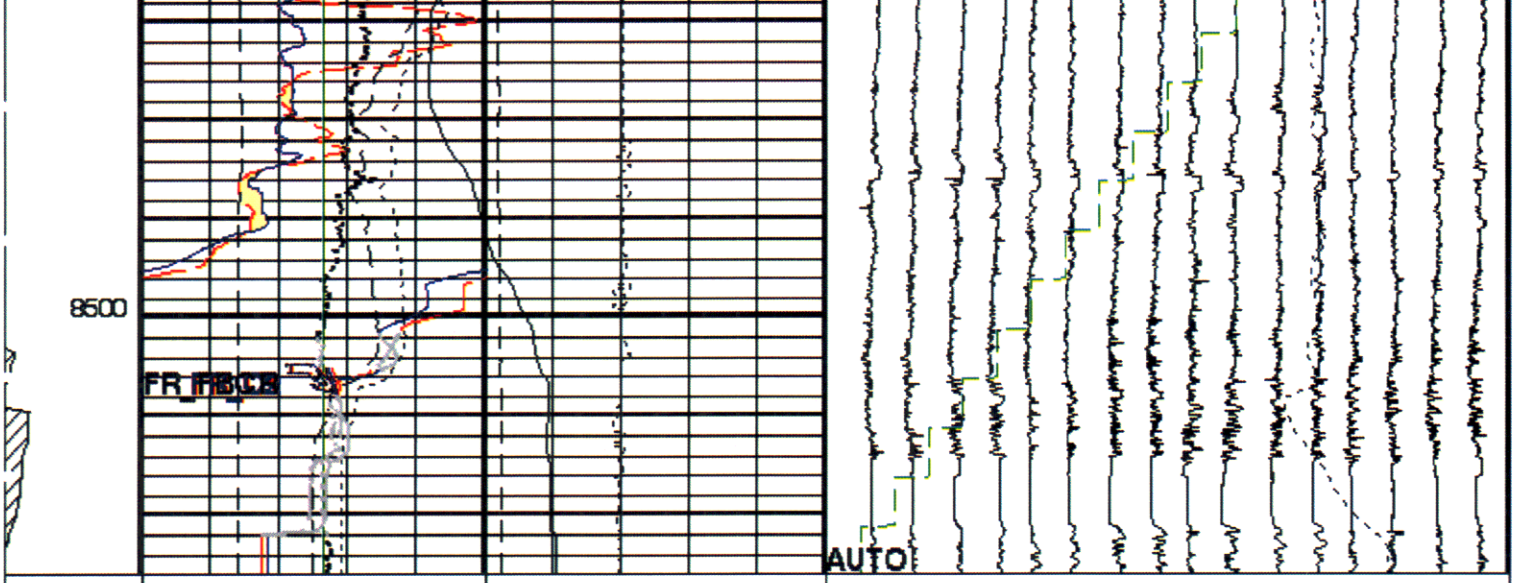

Stuck Stretch (STIT) 0 (F) 50	Caliper 1 (C1) 10 (IN) 20	EMEX Voltage (EV) 0 (V) 50	FMI RBS Value (RBSV) 0 (---) 20
Cable Drag From D4T to STIT	Caliper 2 (C2) 10 (IN) 20	EMEX Intensity (EI) 0 (AMPS) 10	FMI resistivity buttons #1 to 16: RB16 RB15 RB14 RB13 RB12 RB11 RB10 RB9 RB8 RB7 RB6 RB5 RB4 RB3 RB2 RB1
Tool/Tot. Drag From D4T to STIA	Deviation (DEVIM) 0 (DEG) 10		Tension (TENS) 10000 (LBF) 0
	Gamma Ray (GR_EDTC) 50 (GAPI) 150		
	Hole Azimuth (HAZIM) -40 (DEG) 360		
	Pad One Azimuth (P1AZ_FBST) -40 (DEG) 360		
	Relative Bearing (RB_FBST) -40 (DEG) 360		
	FMI Correlation Resistance (LOG) (FBCR) 2 (KOHM) 2000		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	FBST-B: Full-Bore Scanner - B		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
FBEF	FMI EMEX filtering activation	OFF	
FLM	FMI Logging Mode	8PAD	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.6015	DEG
RBS	Resistivity Button Selection	AUTO	
RBSI	Auto RBS Change Interval	10	
SOFF	Standoff	0	IN
XGMO	EMEX & Gain Modes	EmexManu_GainManu	
XVOL	EMEX Voltage	0	V
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT

TIVD	TVD of Tie-in Point	0	FT
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	8508.00	FT
TDL	Total Depth - Logger	8517.00	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	8.0	FT
PP	Playback Processing	OFF	

Format: FMI_LQC Vertical Scale: 5" per 100' Graphics File Created: 12-Dec-2010 04:50

OP System Version: 18C0-147

FBST-B	18C0-147	PPC1-B	18C0-147
MAXS-B	SKK-3935-MAST	MAPC-B	SKK-3935-MAST
PPC2-B	18C0-147	EDTC-B	18C0-147

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_053LUP	FN:74	PRODUCER	11-Dec-2010 22:05	8518.0 FT	1663.0 FT

Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_060PUP	FN:87	PRODUCER	12-Dec-2010 04:50
RTB	FMI_CAL_MAXS_MAPC_060PUP	FN:88	PRODUCER	12-Dec-2010 04:50
CLIENT	FMI_CAL_MAXS_MAPC_060PUC	FN:89	CUSTOMER	12-Dec-2010 04:50

Company: OXY US LA BASIN Well: DOM-001

Input DLIS Files

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Output DLIS Files

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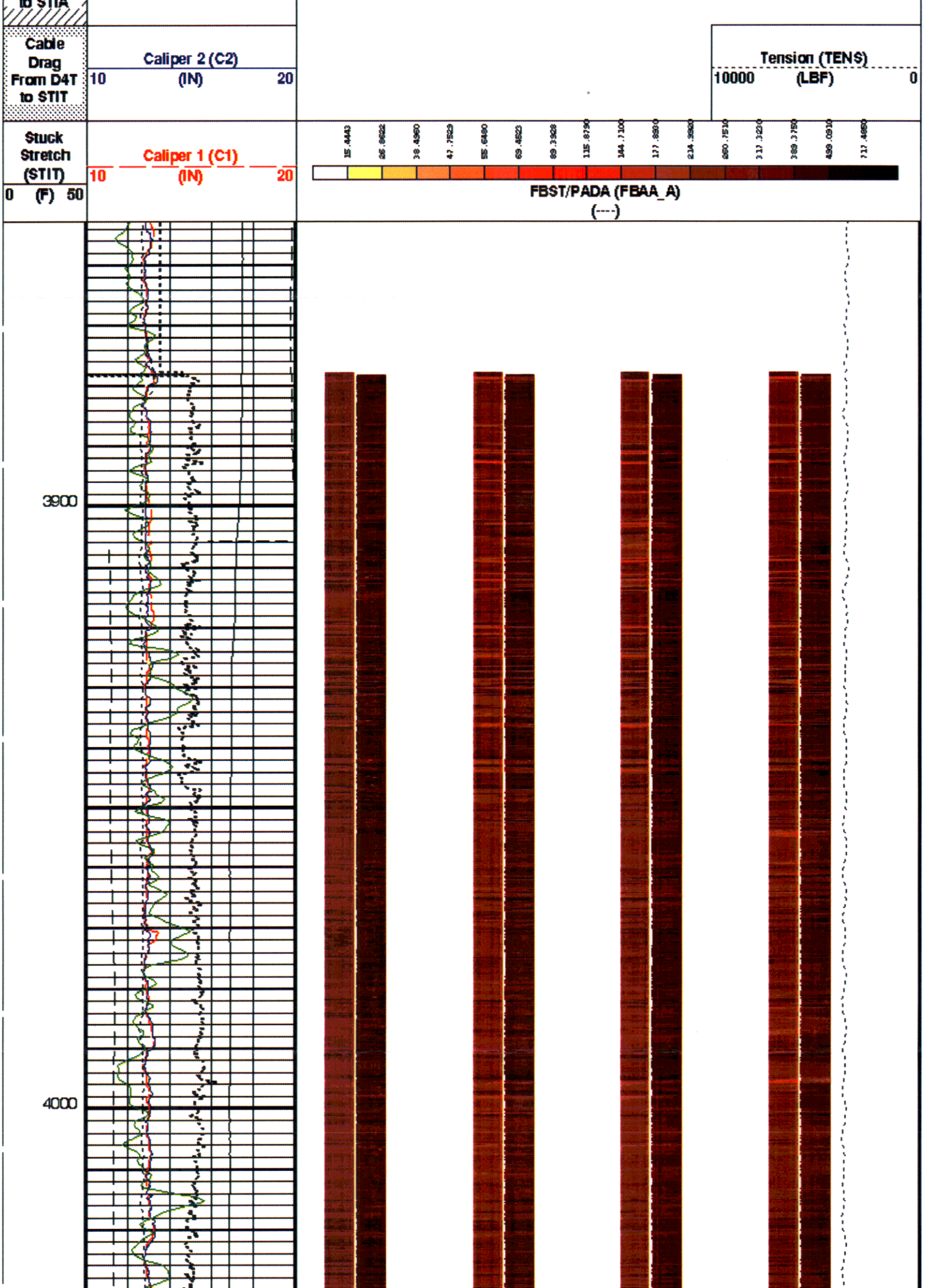
OP System Version: 18C0-147

FBST-B	18C0-147	PPC1-B	18C0-147
MAXS-B	SKK-3935-MAST	MAPC-B	SKK-3935-MAST
PPC2-B	18C0-147	EDTC-B	18C0-147

PIP SUMMARY

Time Mark Every 60 S

	FMI Correlation Resistance (LOG) (FBCR)		
	2	(KOHM)	2000
	Pad One Azimuth (P1AZ_FBST)		
	-40	(DEG)	360
	Hole Azimuth (HAZIM)		
	-40	(DEG)	360
	Gamma Ray (GR_EDTC)		
	50	(GAPI)	150
Tool/Tot. Drag From D4T	Deviation (DEVIM)		
	0	(DEG)	10



to STIA
Cable Drag From D4T to STIT
Caliper 2 (C2)
10 (IN) 20
Tension (TENS)
10000 (LBF) 0
Stuck Stretch (STIT)
0 (F) 50
Caliper 1 (C1)
10 (IN) 20
15.4443
26.8622
38.4960
47.7529
55.6480
69.4523
89.3928
115.8790
144.7100
177.8930
214.3920
260.7510
317.3230
389.3750
499.0910
717.4850
FBST/PADA (FBAA_A)
(----)
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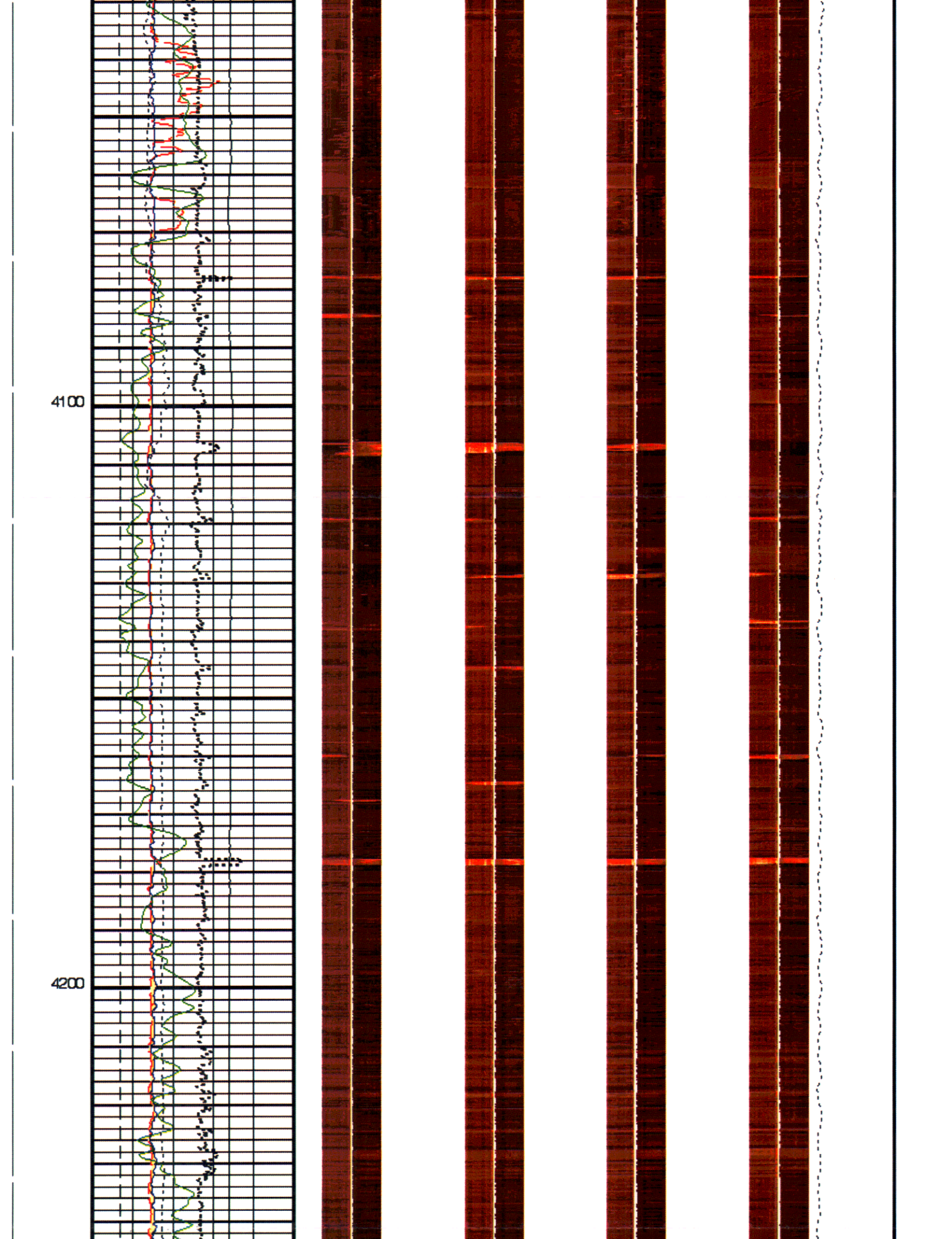
4000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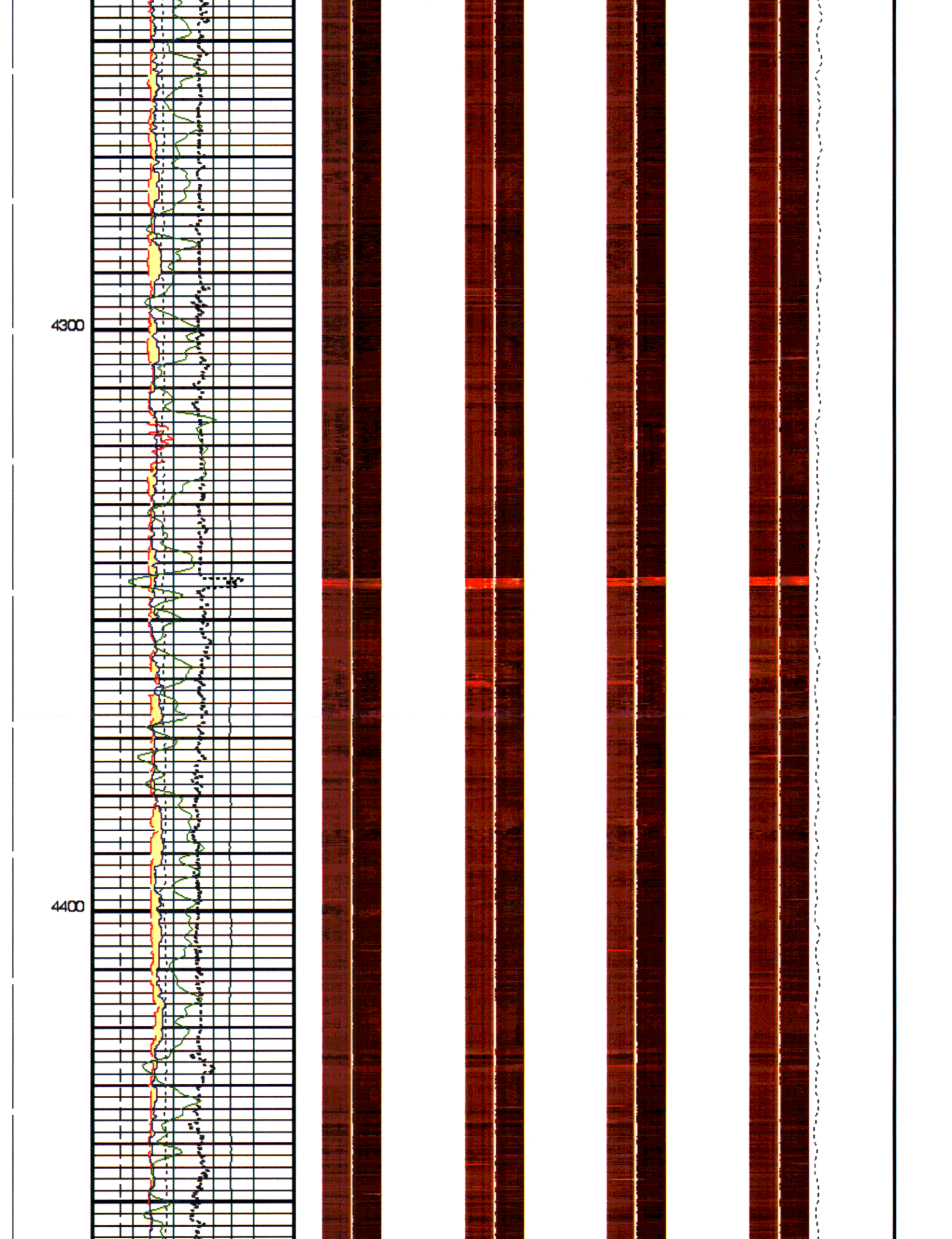
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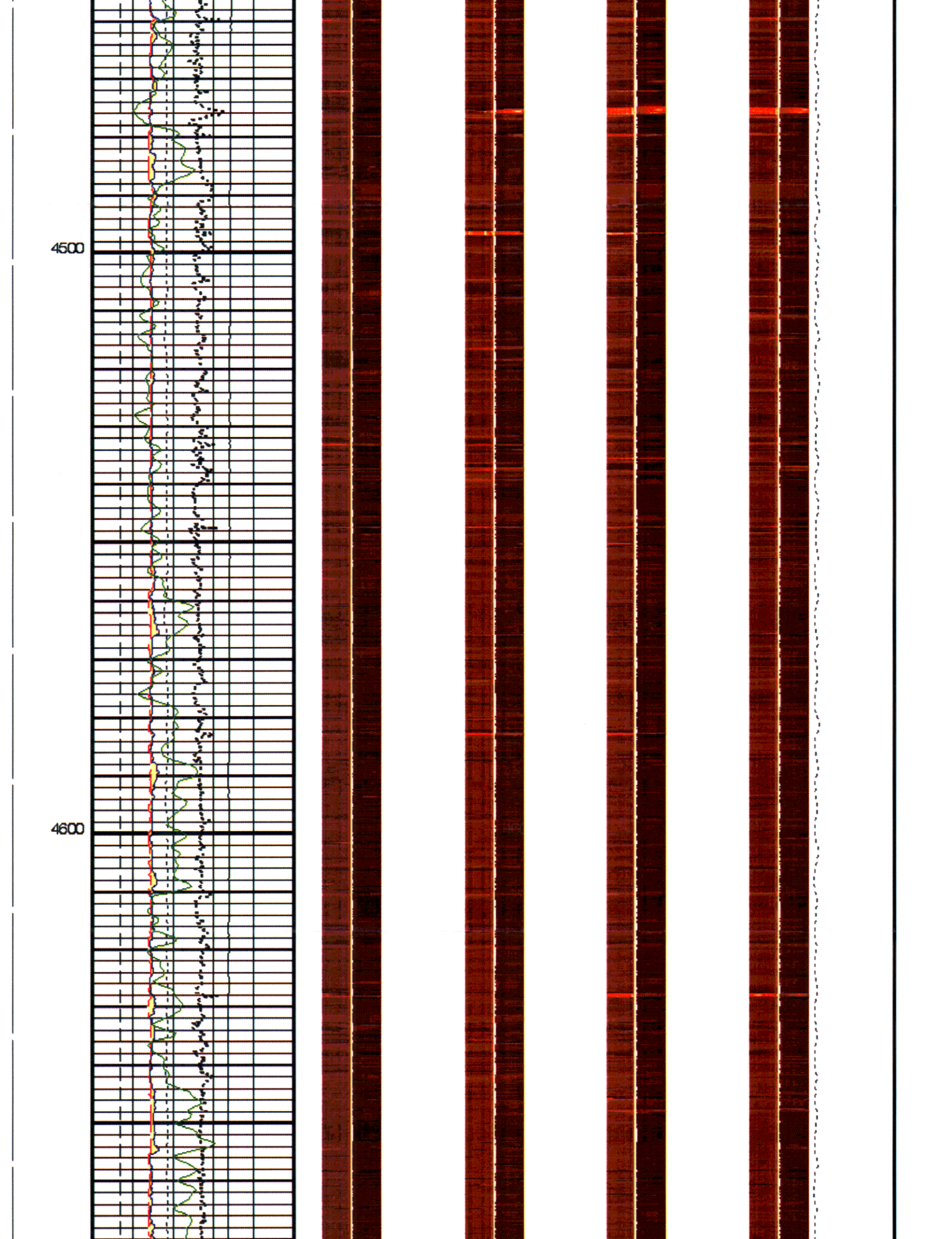
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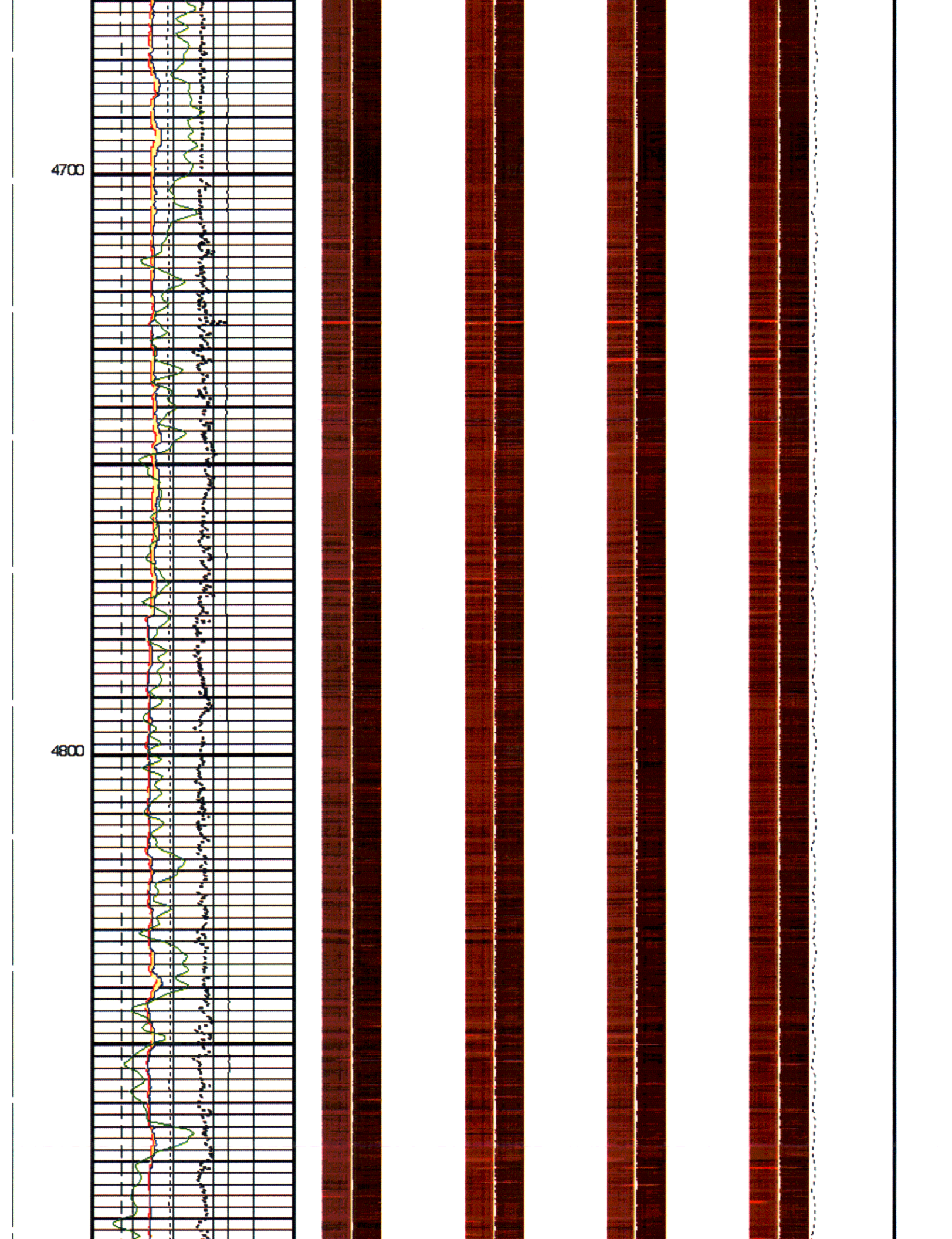
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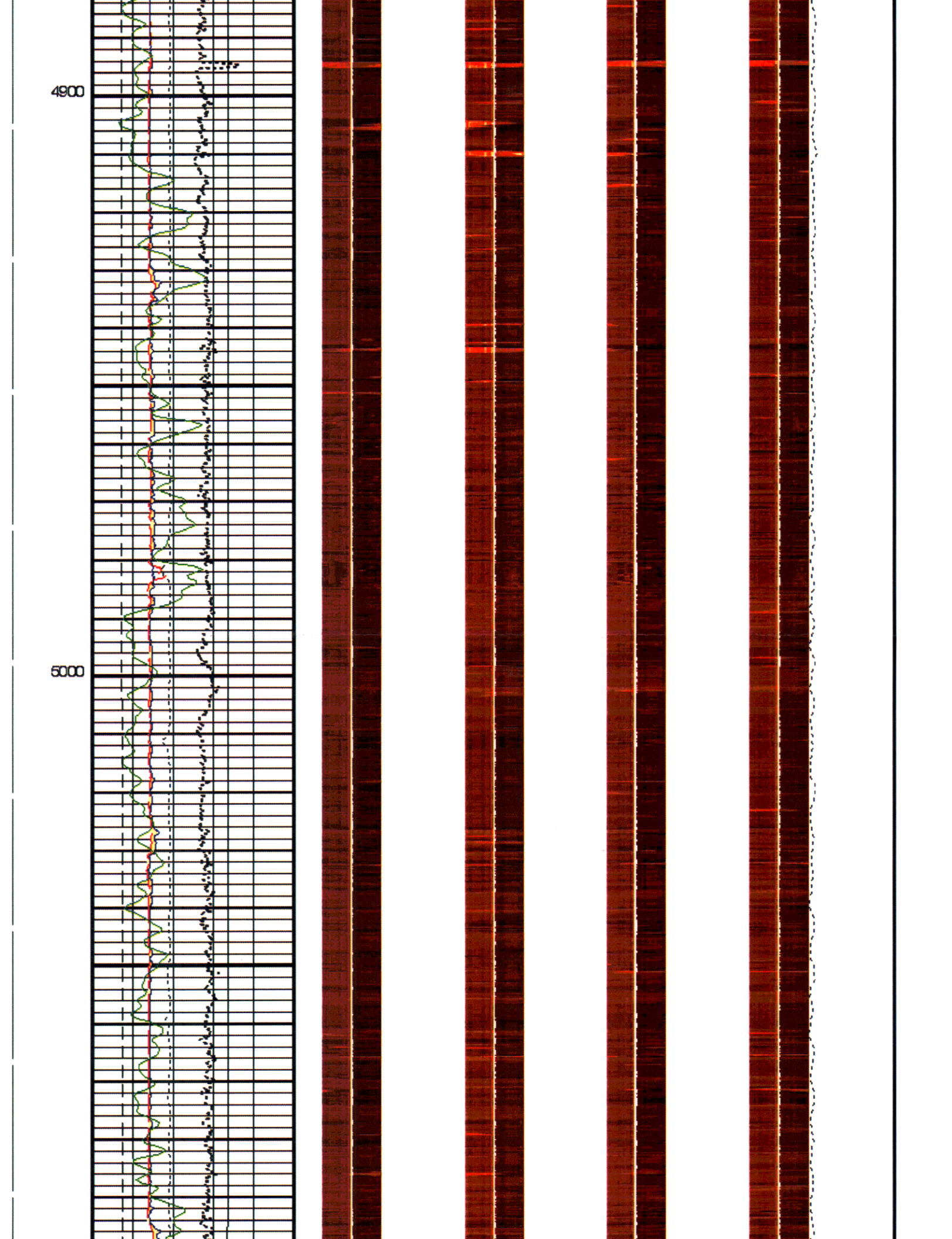
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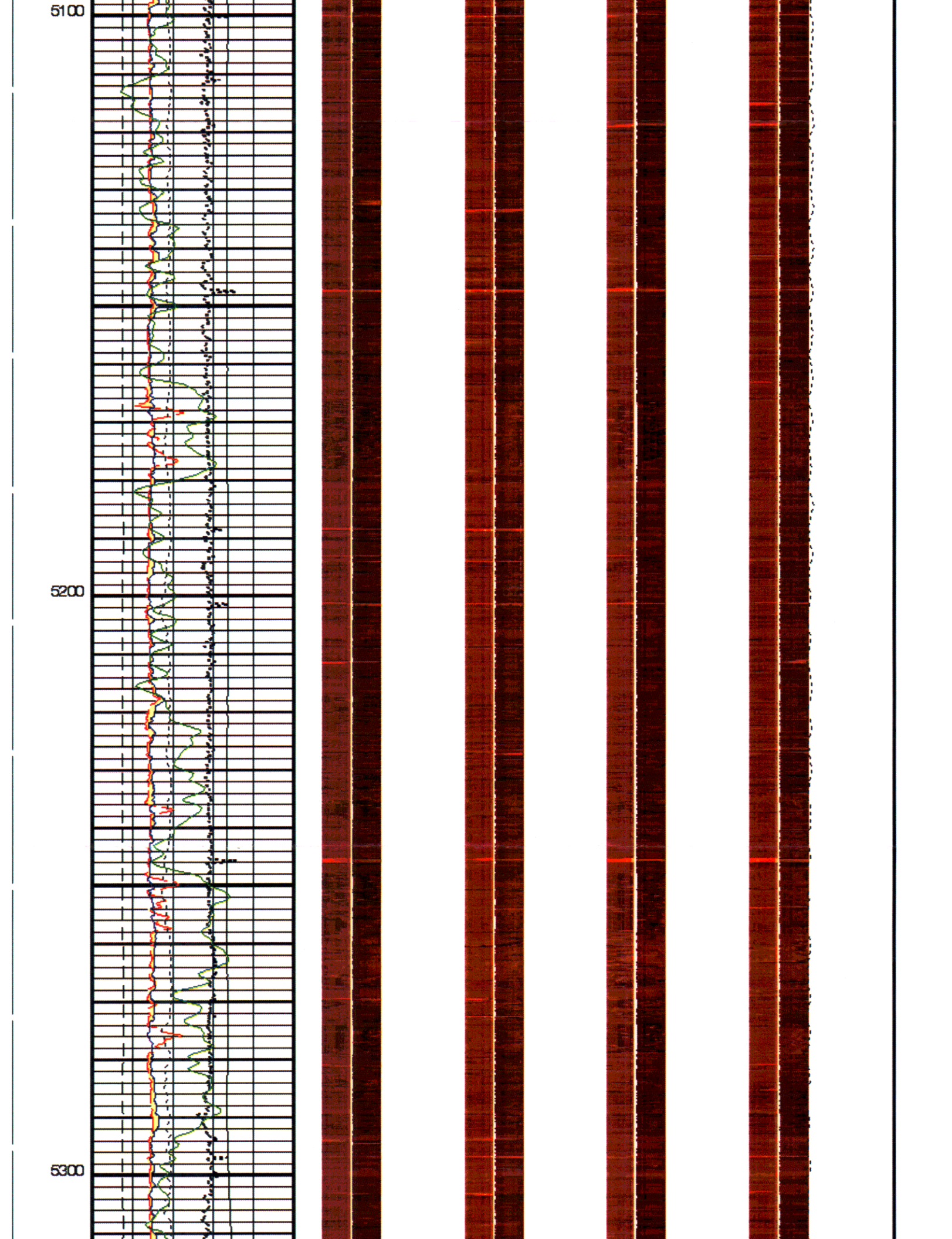
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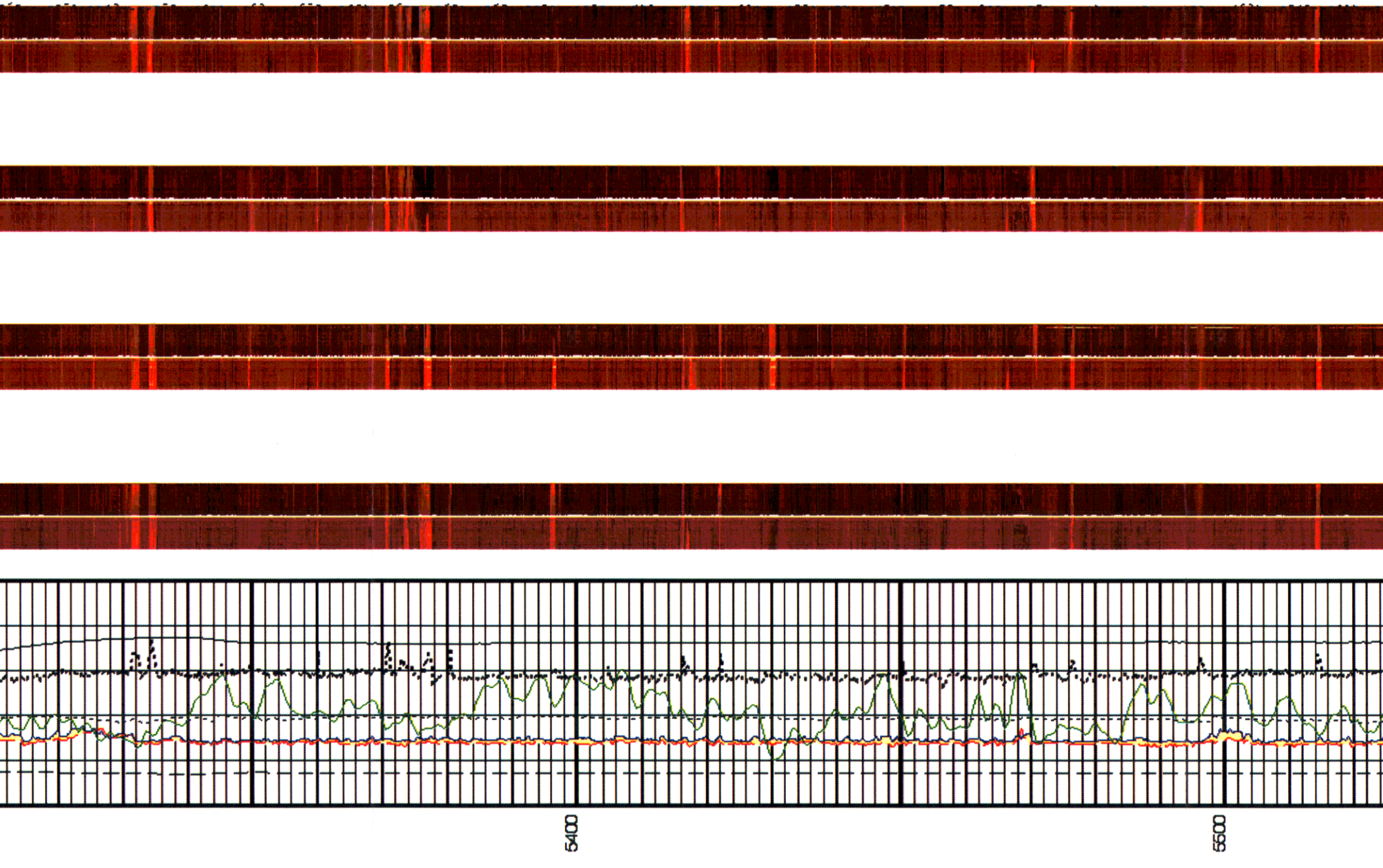

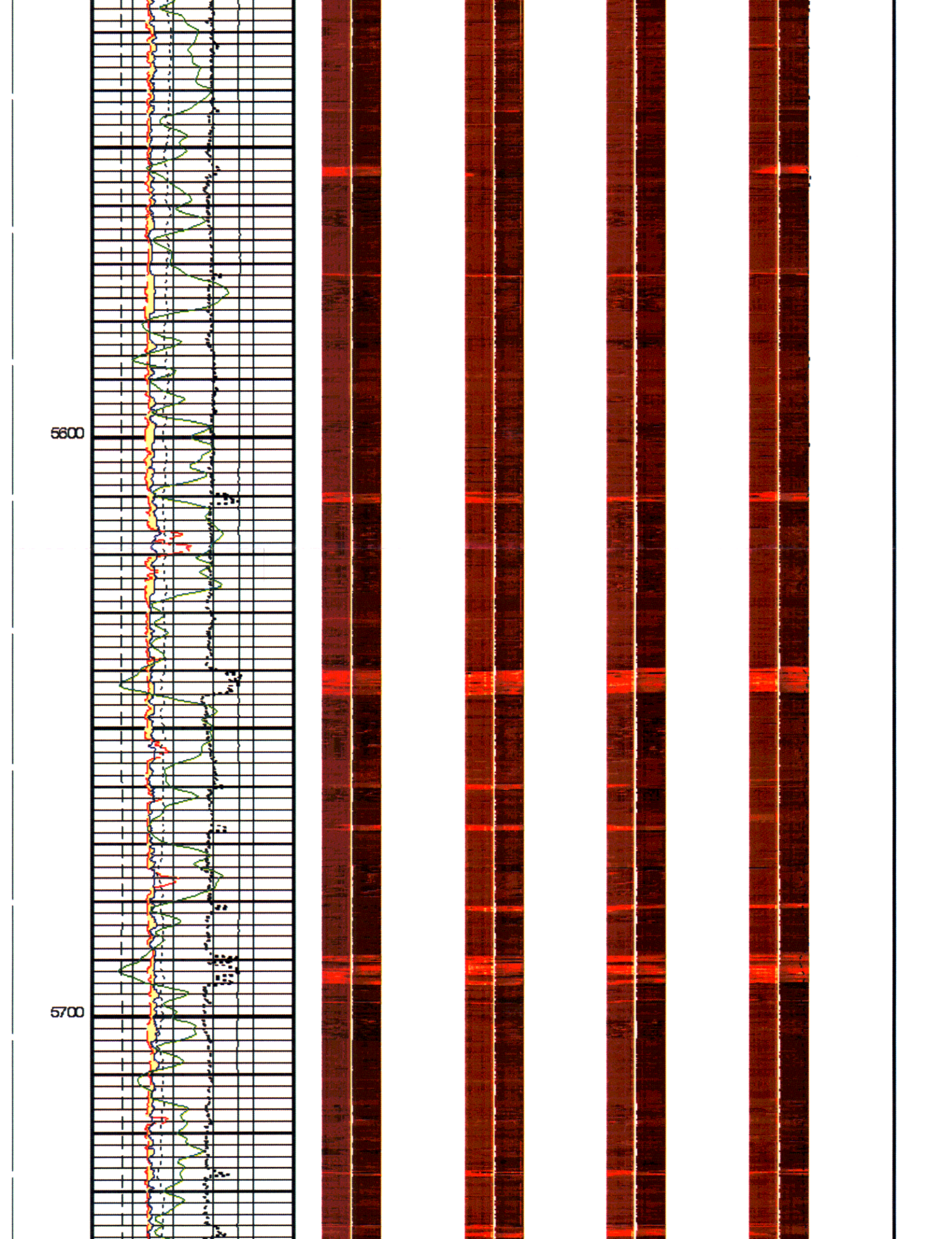
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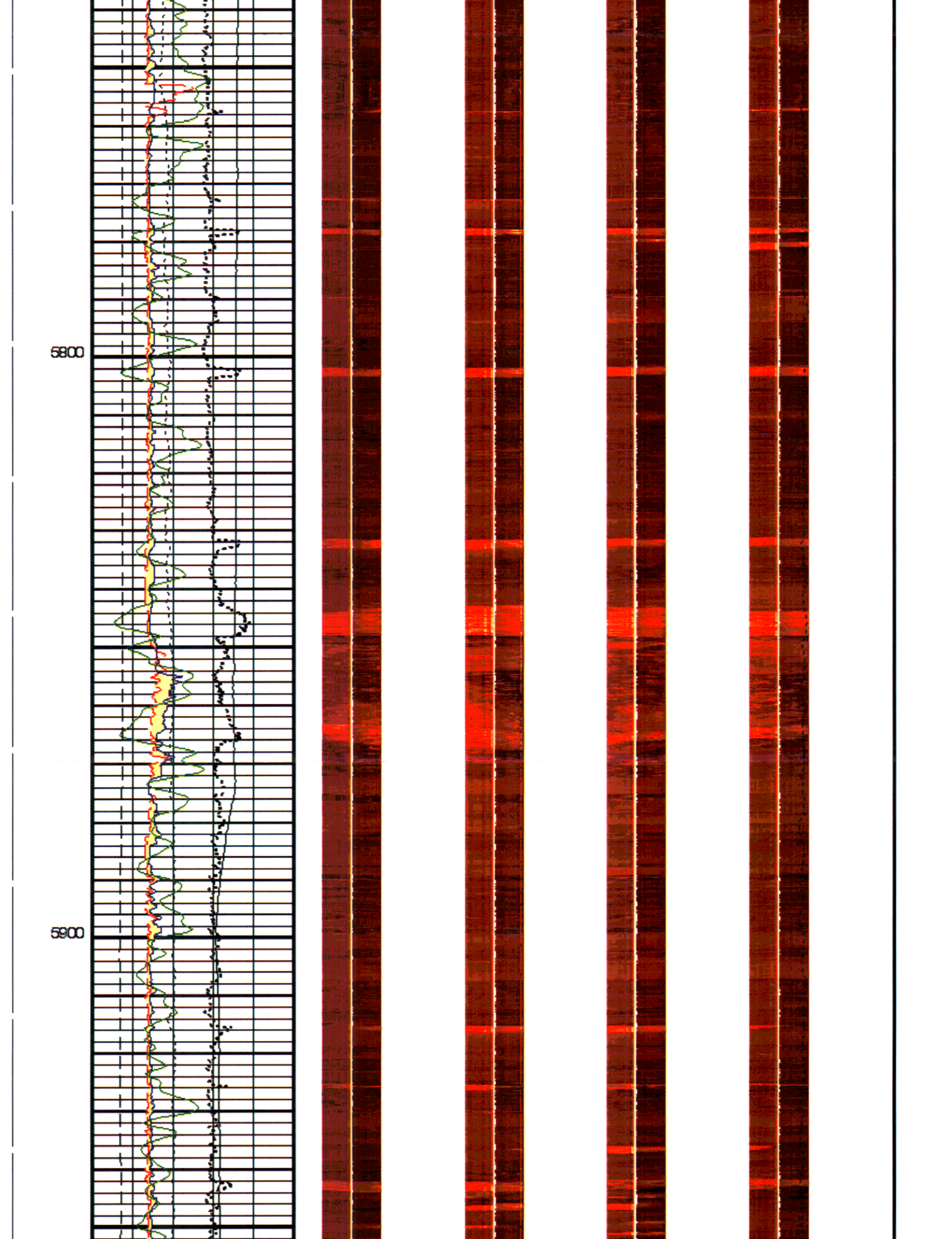
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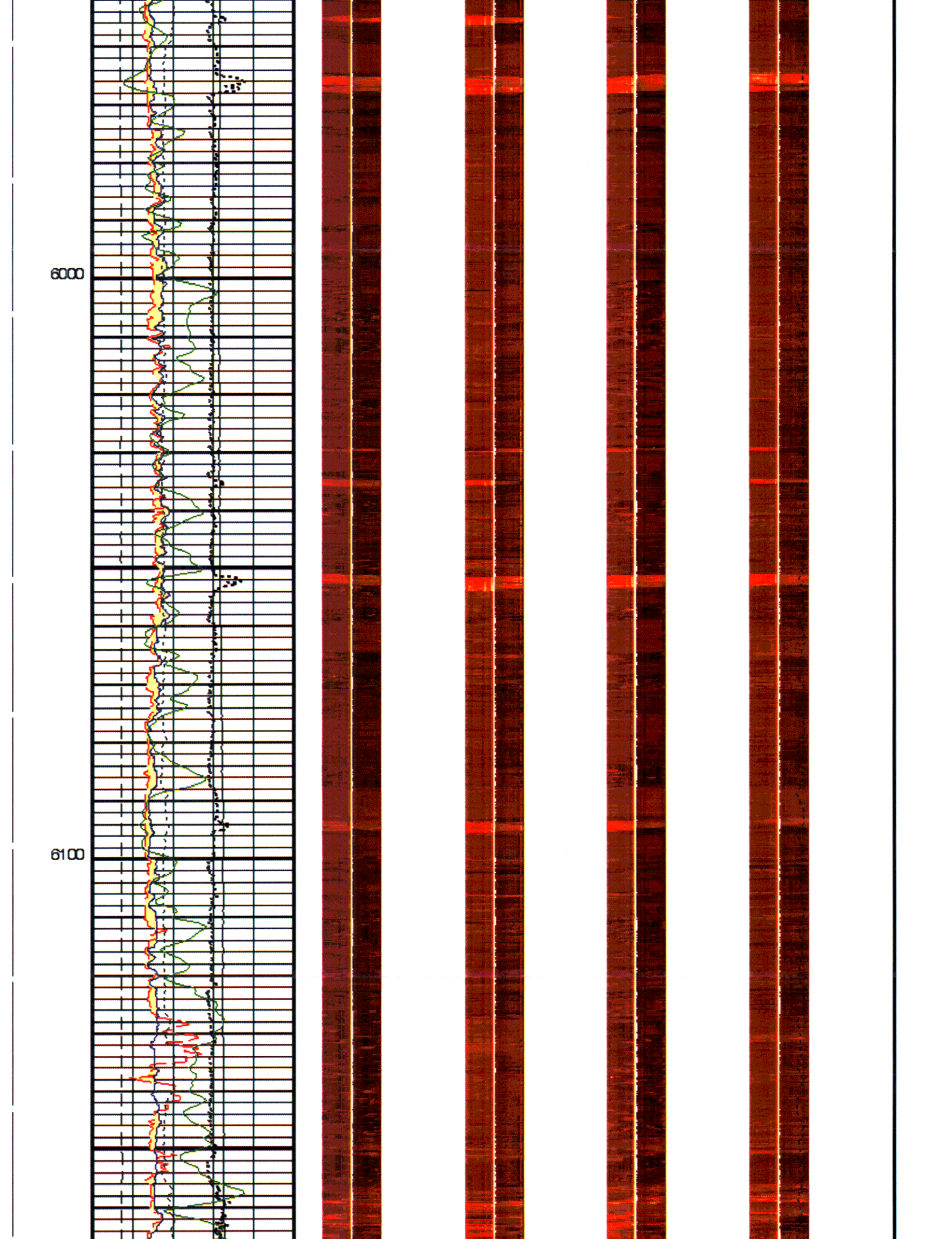
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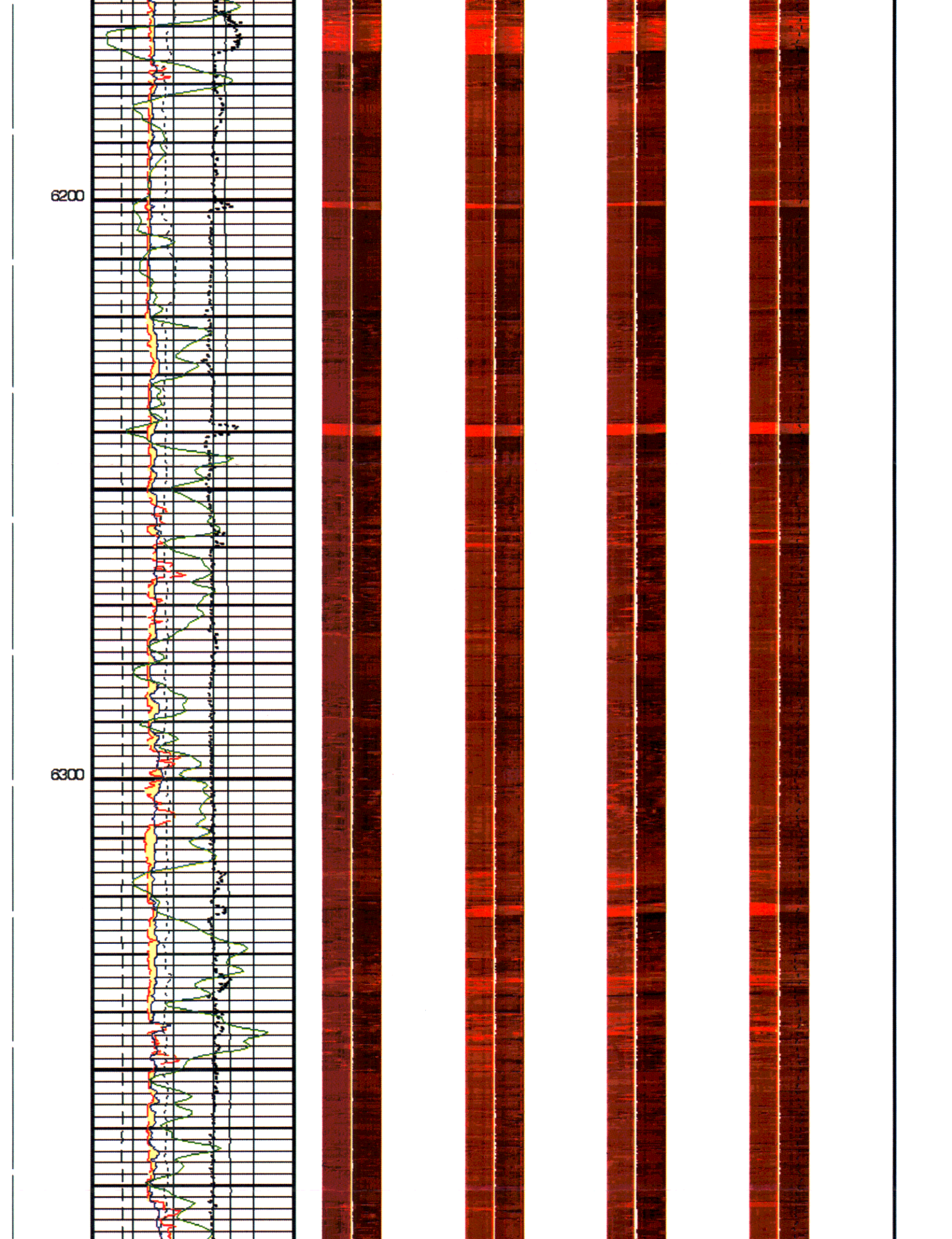
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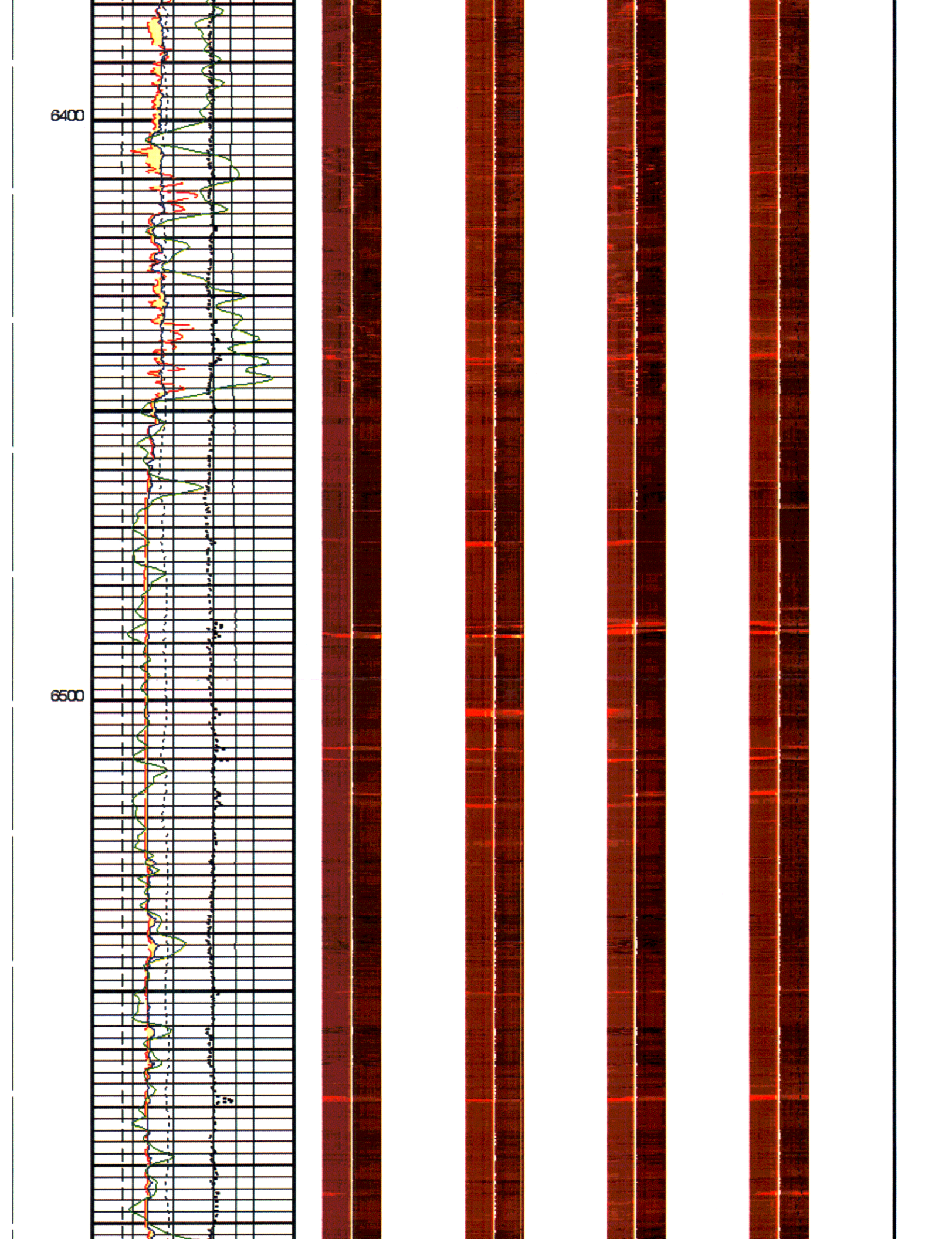
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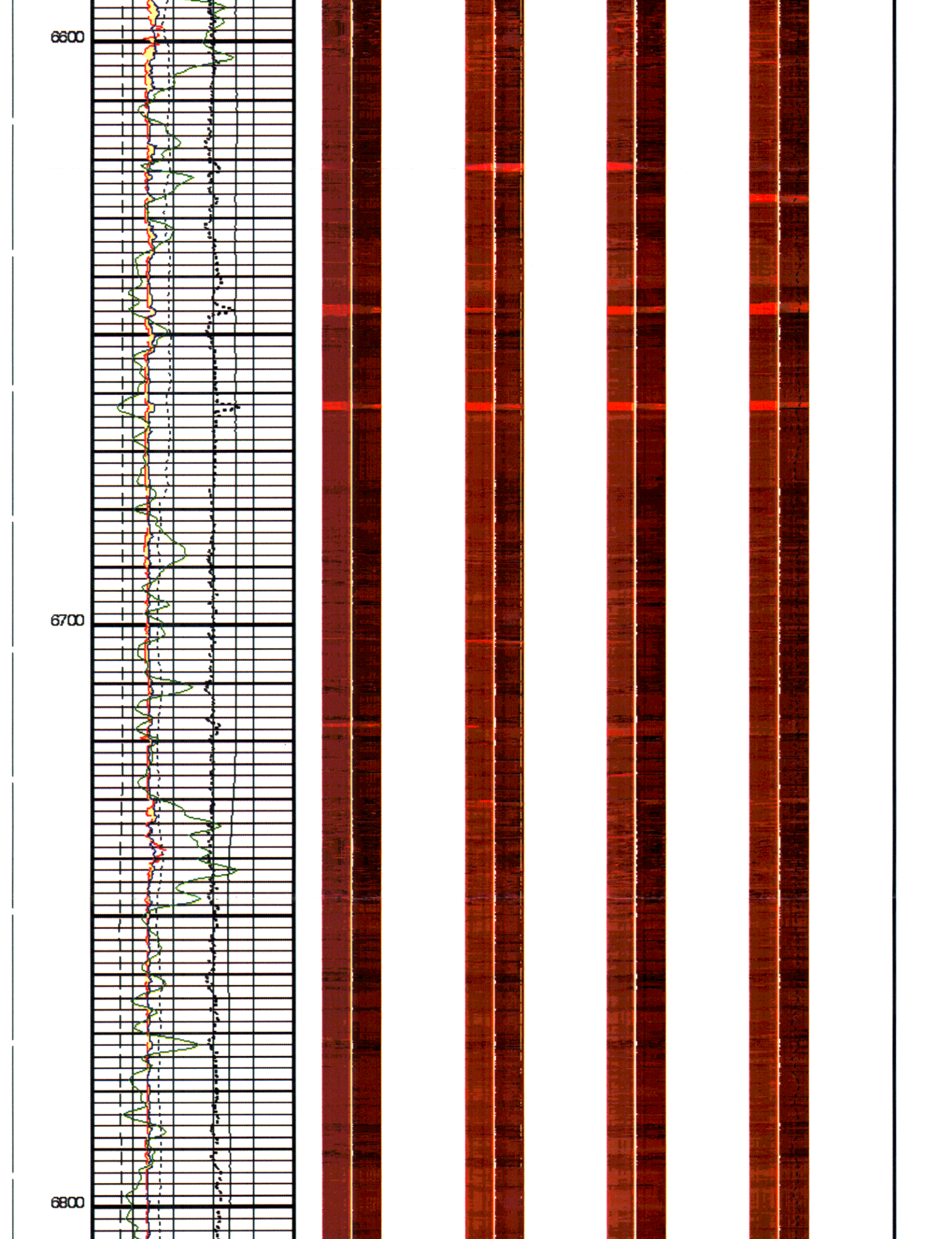
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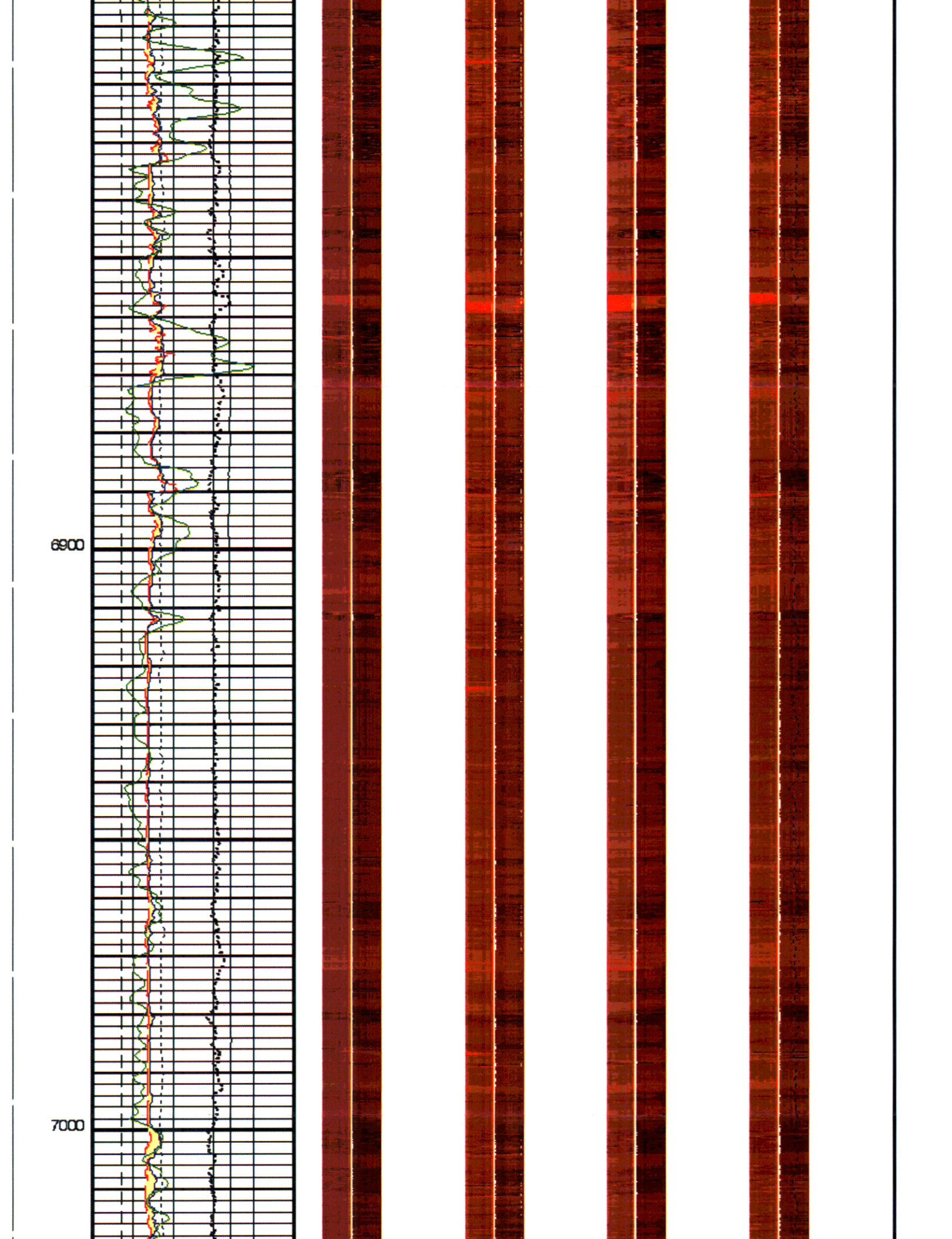
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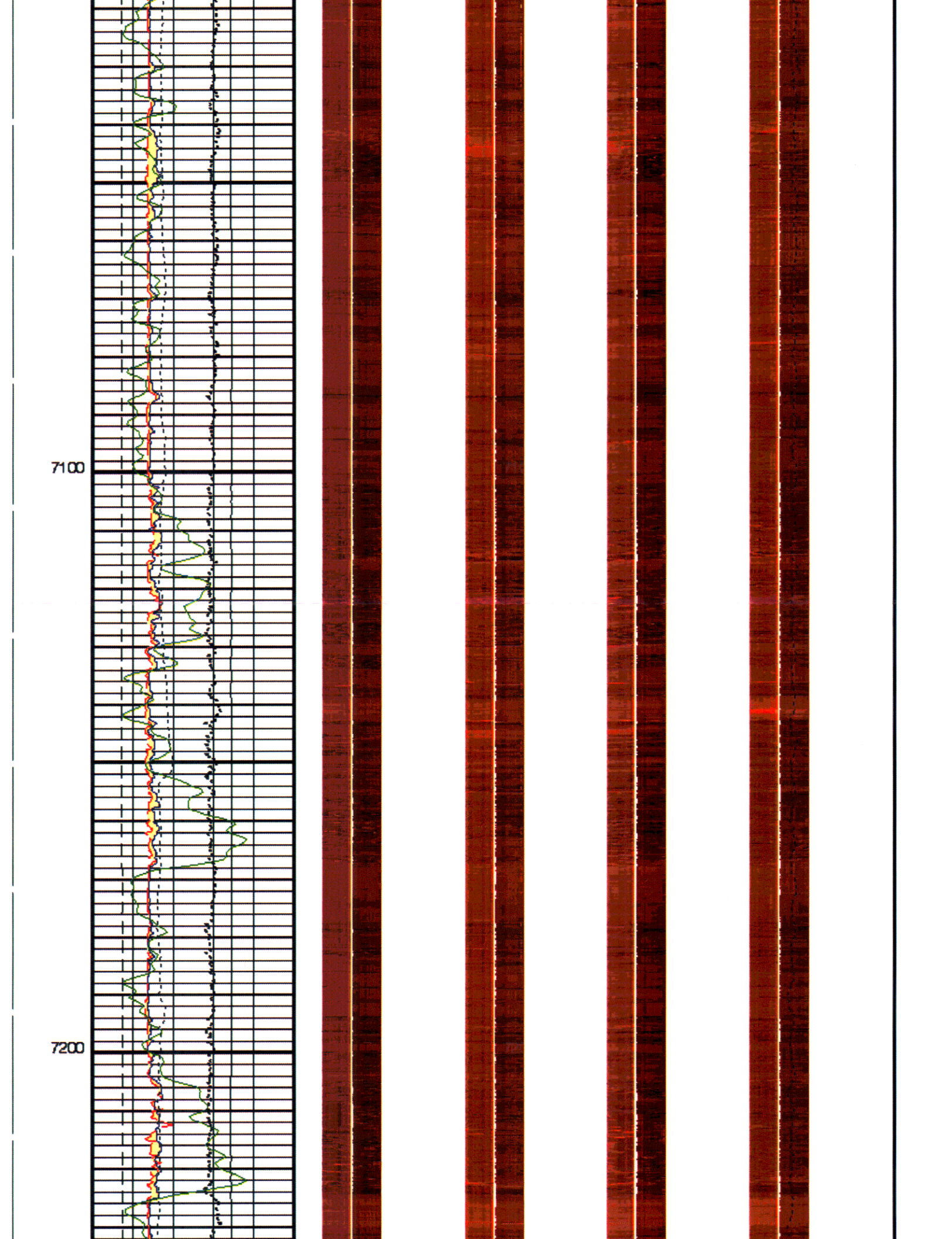
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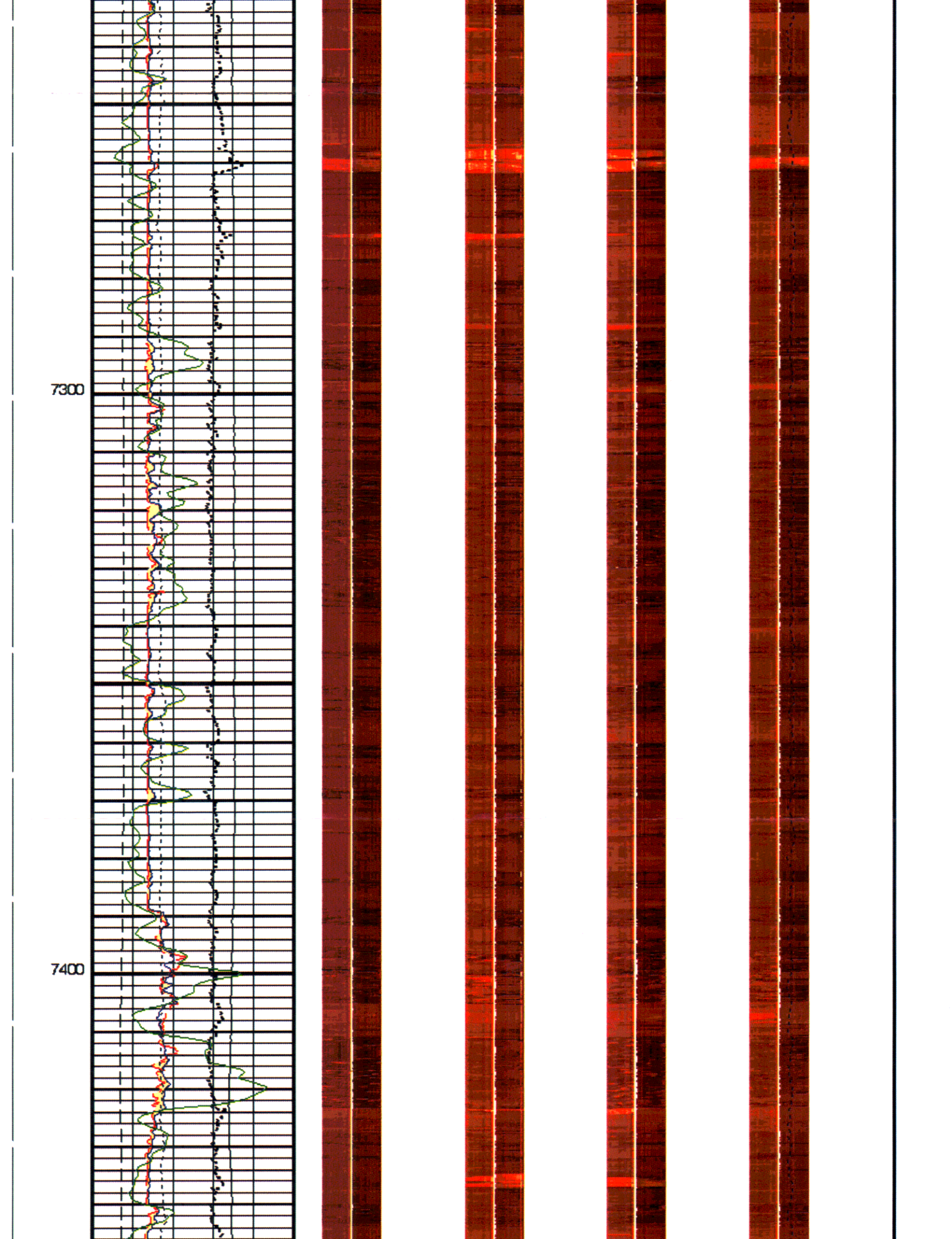
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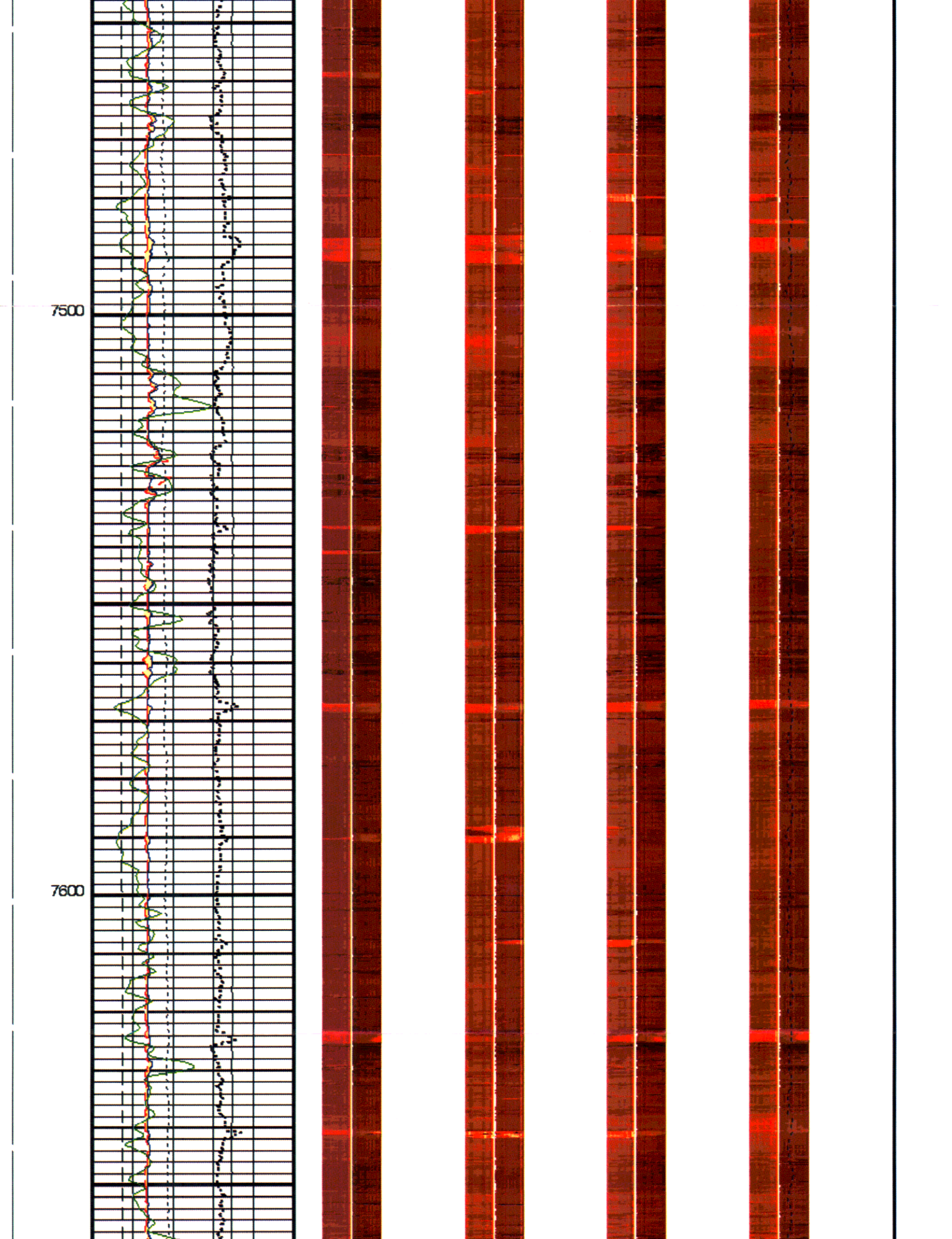
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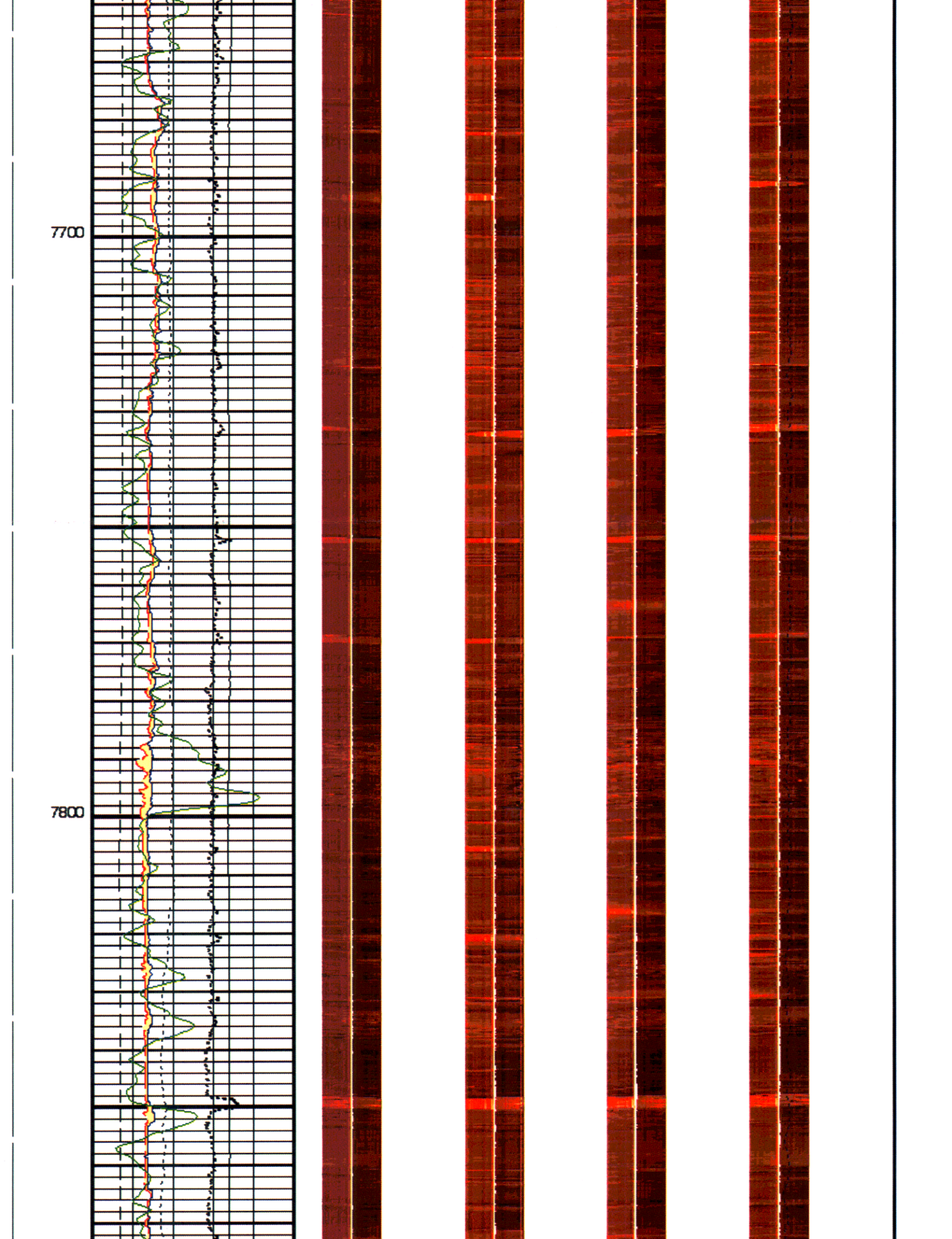
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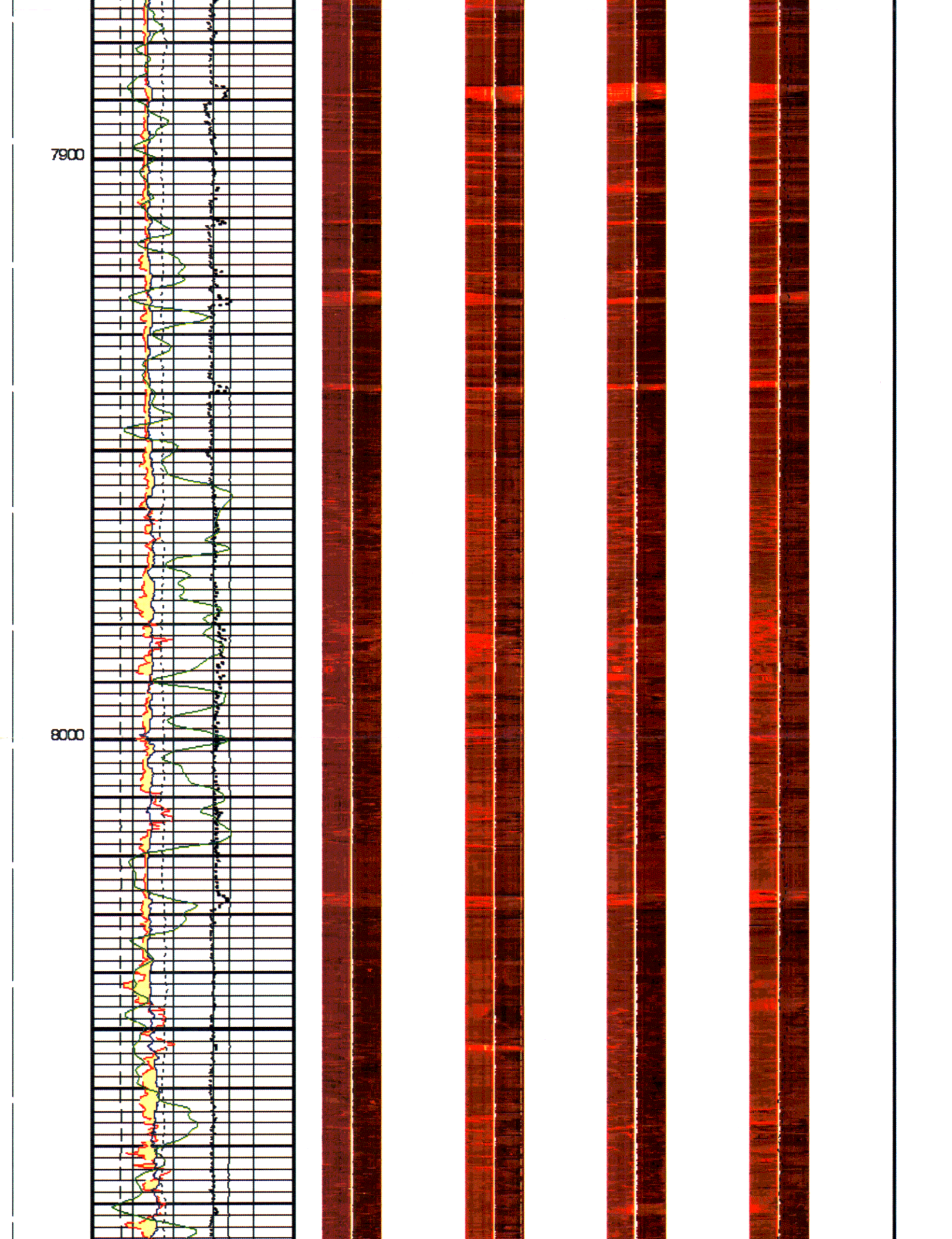
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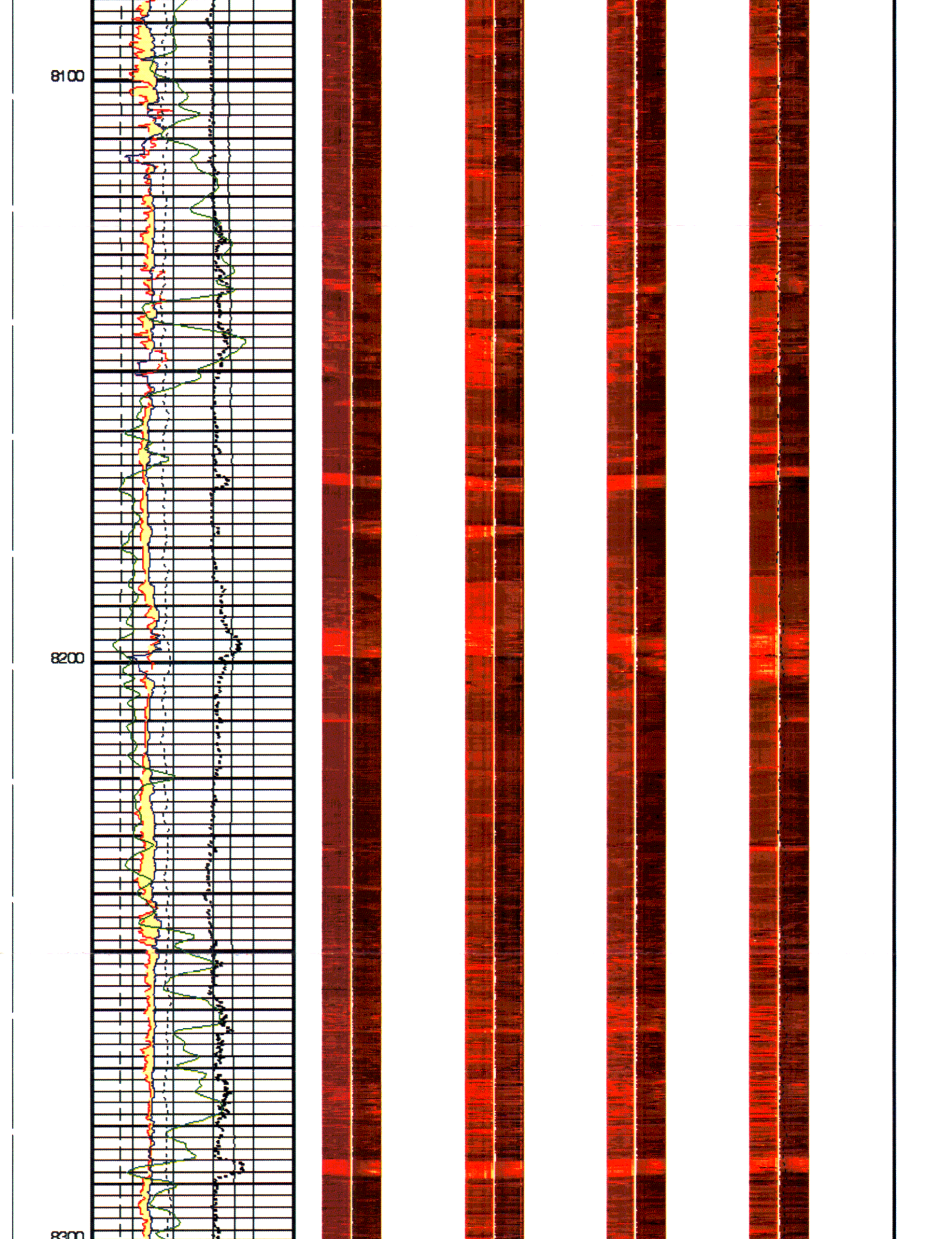
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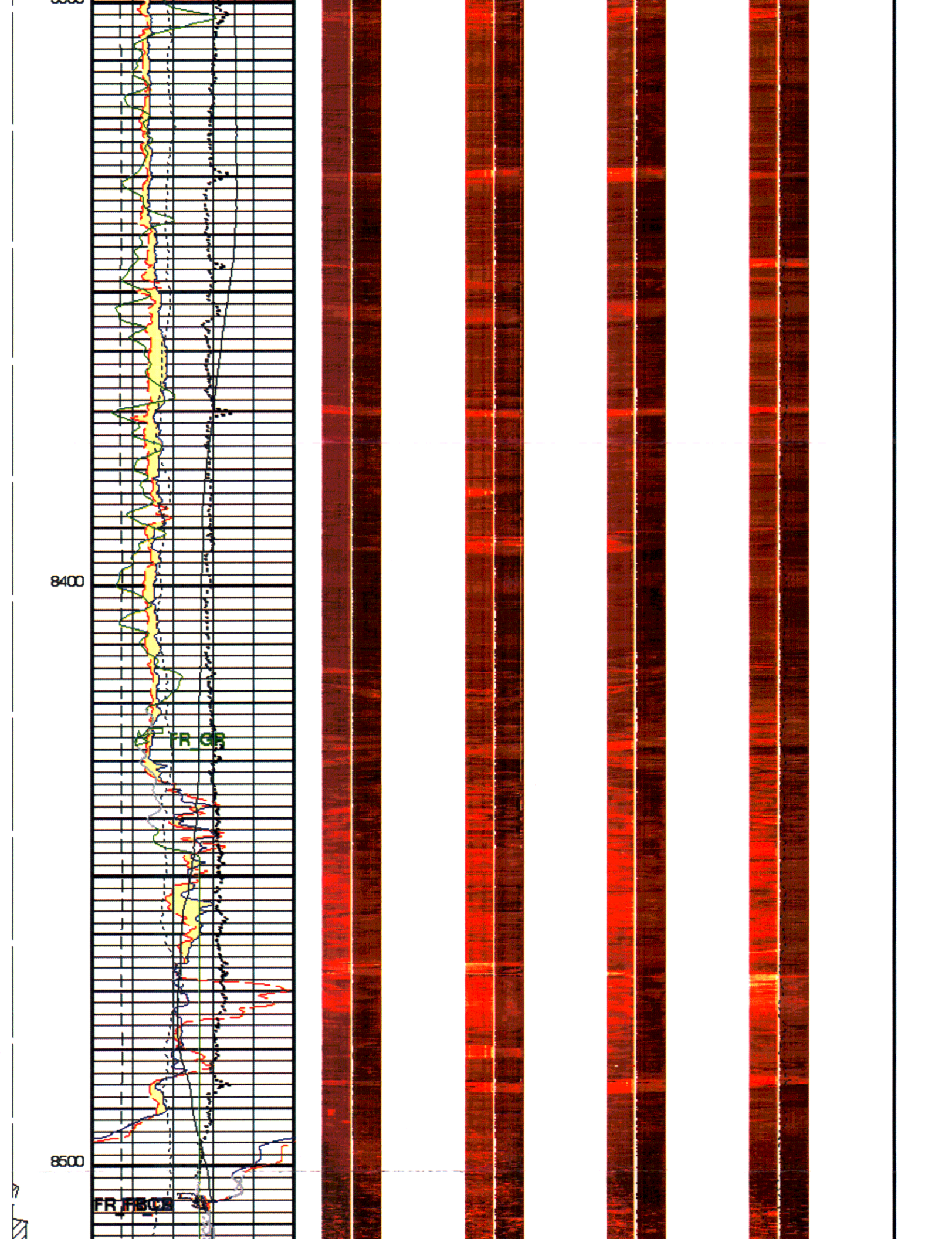
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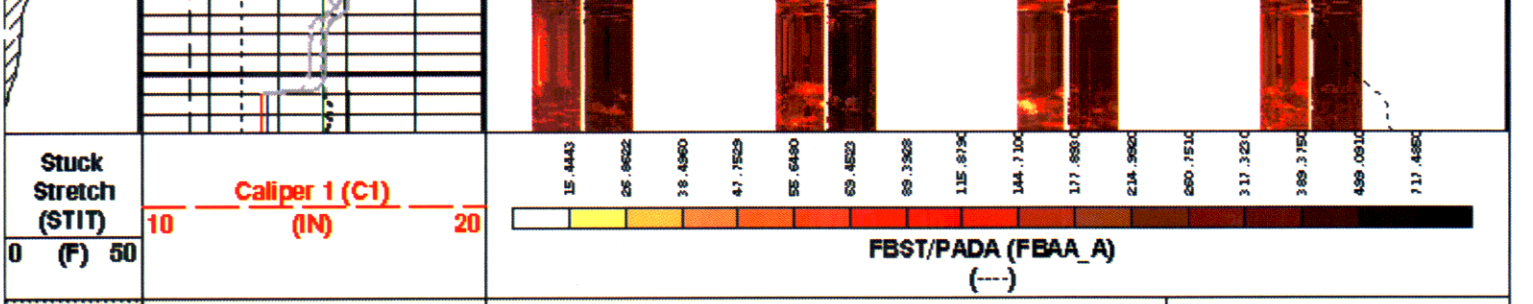


Stuck Stretch (STIT) 0 (F) 50	Caliper 1 (C1) 10 (IN) 20	FBST/PADA (FBAA_A) (---)
Cable Drag From D4T to STIT	Caliper 2 (C2) 10 (IN) 20	Tension (TENS) 10000 (LBF) 0
Tool/Tot. Drag From D4T to STIA	Deviation (DEVIM) 0 (DEG) 10	
	Gamma Ray (GR_EDTC) 50 (GAPI) 150	
	Hole Azimuth (HAZIM) -40 (DEG) 360	
	Pad One Azimuth (P1AZ_FBST) -40 (DEG) 360	
	FMI Correlation Resistance (LOG) (FBCR) 2 (KOHM) 2000	

PIP SUMMARY

Time Mark Every 60 S

FMI Image.

Resistive (White) to Conductive (Black)

Format: FMI_4PAD_IMAGE Vertical Scale: 5" per 100' Graphics File Created: 12-Dec-2010 04:50

OP System Version: 18C0-147

FBST-B	18C0-147	PPC1-B	18C0-147
MAXS-B	SKK-3935-MAST	MAPC-B	SKK-3935-MAST
PPC2-B	18C0-147	EDTC-B	18C0-147

Parameters

DLIS Name	Description	Value	
	FBST-B: Full-Bore Scanner - B		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
EGCO	FMI EMEX and GAIN Correction	NO	
FDBD	FMI Dead Buttons detection	OFF	
FDBP	FMI Dead Buttons Patching	OFF	
FIEQ	FMI Image Equalisation	OFF	
FLM	FMI Logging Mode	8PAD	
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	12.6015	DEG
SOFF	Standoff	0	IN
XGAI_FBST	Gain Value in Manual Mode	0 dB	
XGMO	EMEX & Gain Modes	EmexManu_GainManu	
XVOL	EMEX Voltage	0	V
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT

TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	8508.00	FT
TDL	Total Depth - Logger	8517.00	FT
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
DO	Depth Offset for Playback	8.0	FT
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	OFF	

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_053LUP	FN:74	PRODUCER	11-Dec-2010 22:05	8518.0 FT	1663.0 FT

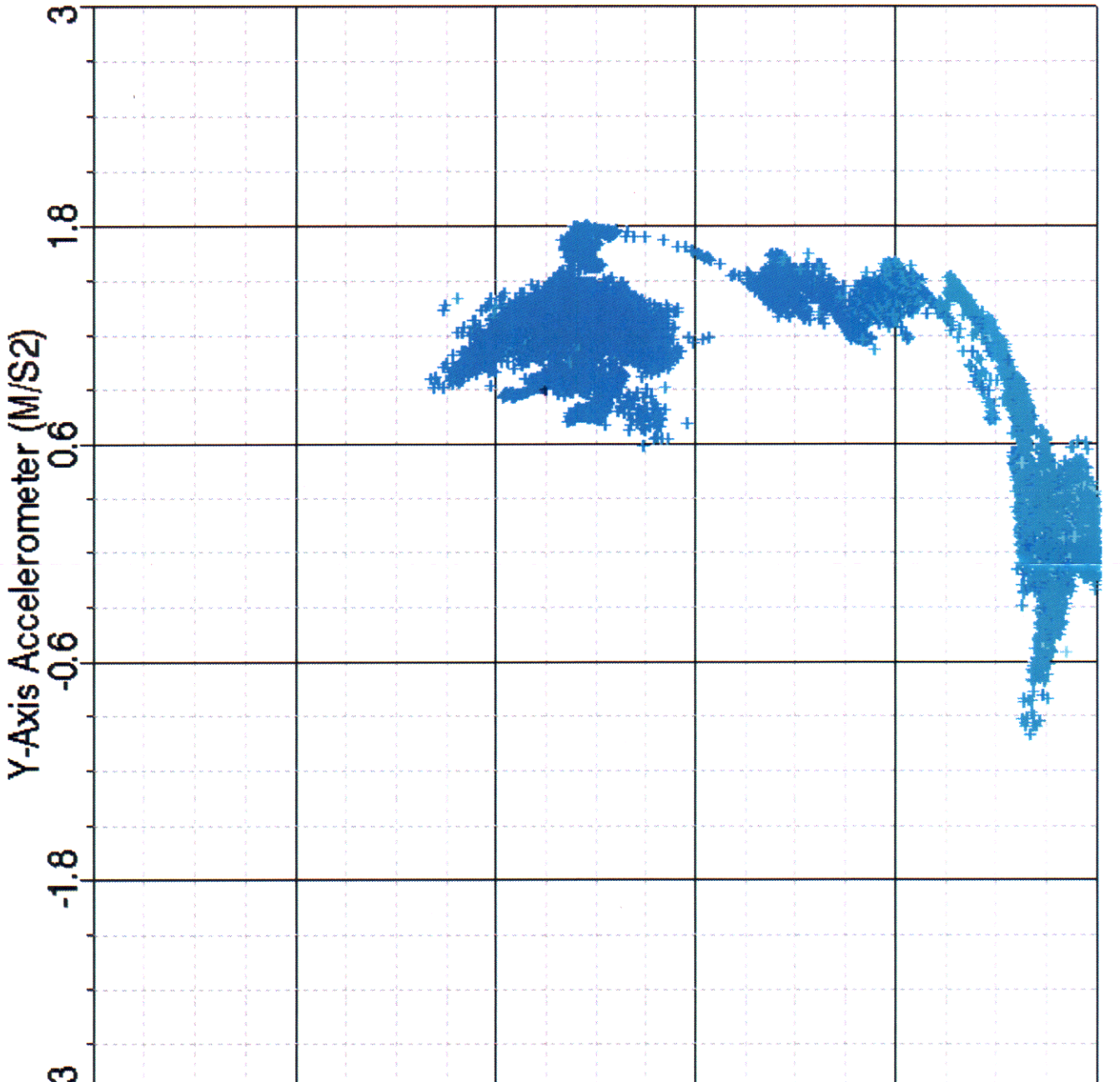
Output DLIS Files

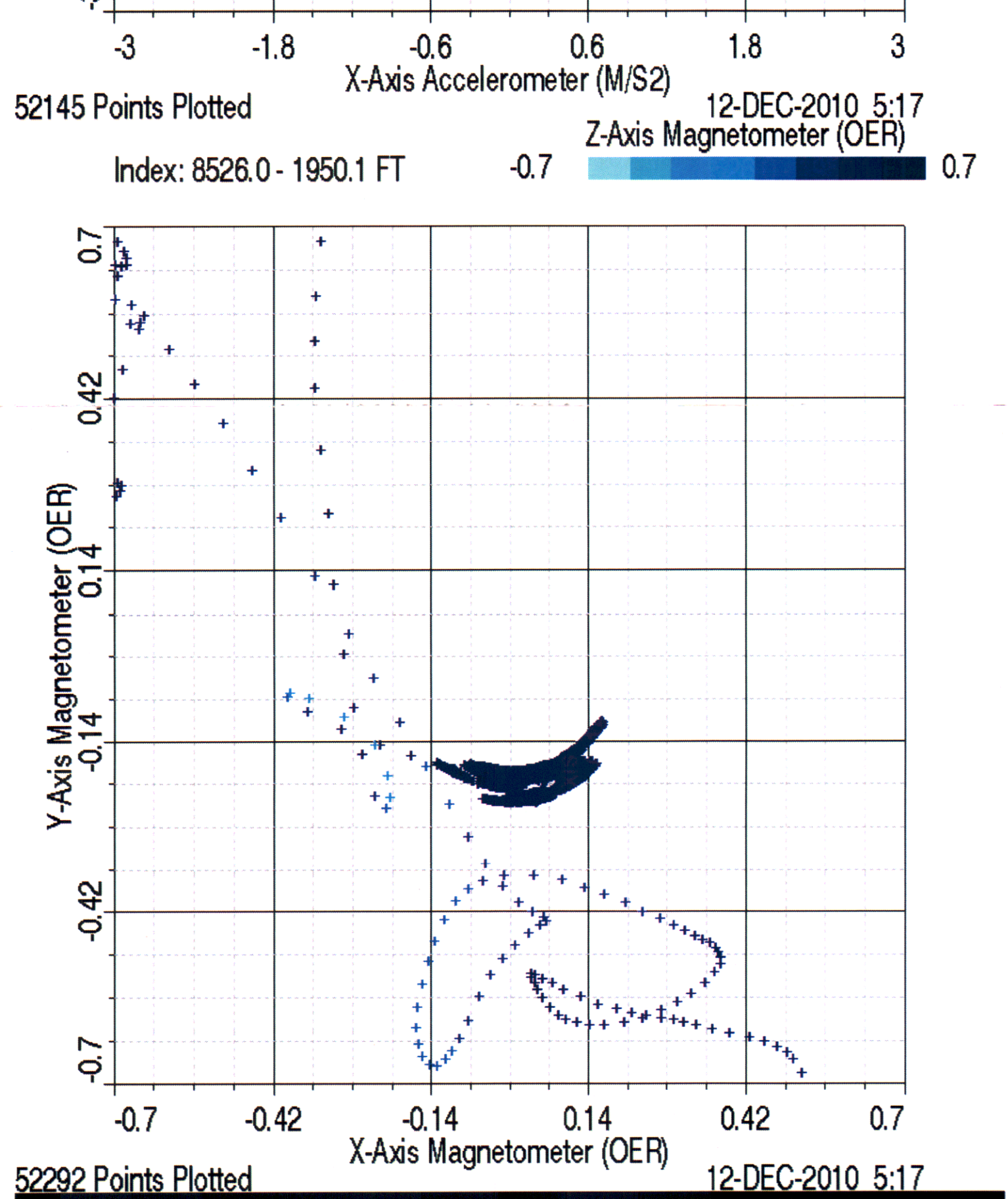
DEFAULT	FMI_CAL_MAXS_MAPC_060PUP	FN:87	PRODUCER	12-Dec-2010 04:50
RTB	FMI_CAL_MAXS_MAPC_060PUP	FN:88	PRODUCER	12-Dec-2010 04:50
CLIENT	FMI_CAL_MAXS_MAPC_060PUC	FN:89	CUSTOMER	12-Dec-2010 04:50

Index: 8526.0 - 1950.1 FT

Z-Axis Accelerometer (M/S2)

9. 11.





Company: OXY US LA BASIN

Schlumberger

Well: DOM-001
Field: Dominguez
County: Los Angeles
State: California

FORMATION MICRO IMAGER
GAMMA RAY TIE IN