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 21 4 067.32

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

Logging Date			31-Dec-2010										
Run Number			SEVEN										
Depth Driller			11113 ft										
Schlumberger Depth			11127 ft										
Bottom Log Interval			11126 ft										
Top Log Interval			8495 ft										
Casing Driller Size @ Depth			9.625 in	@	8494 ft			@					
Casing Schlumberger			8495 ft										
Bit Size			8.500 in										
Type Fluid In Hole			8% KCL - GELITE										
MUD	Density	Viscosity	11.5 lbm/gal	50 s									
MUD	Fluid Loss	PH	4.2 cm3	7.9									
MUD	Source Of Sample		FLOWLINE										
RM @ Measured Temperature			0.187 ohm.m	@	54 degF			@					
RMF @ Measured Temperature			0.174 ohm.m	@	47 degF			@					
RMC @ Measured Temperature			0.290 ohm.m	@	49 degF			@					
Source RMF	RMC		MUD PRESS	MUD PRESS									
RM @ MRT	RMF @ MRT		0.044 @ 255	0.036 @ 255				@		@			
Maximum Recorded Temperatures			255 degF										
Circulation Stopped	Time		30-Dec-2010		16:00								
Logger On Bottom	Time		31-Dec-2010		14:18								
Unit Number	Location		2363	BAKERSFIELD									
Recorded By			JARROD LONG										
Witnessed By			SCOTT PRIOR										

			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: 31-DEC-2010 17:41:14

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-48A SUS
Serial Number:	5905	Serial Number:	1377	Serial Number:	708176
Calibration Date:	2-DEC-2010	Calibration Date:	02-DEC-2010	Length:	19900 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	6250	Conveyance Method:	Wireline
Calibration Cable Type:	7-48A SUS	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-5	Calibration RMS:	23		
Wheel Correction 2:	-5	Calibration Peak Error:	37		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	PLATFORM EXPRESS
Reference Log Run Number:	SIX
Reference Log Date:	31-DEC-2010

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED.
2. IDW USED AS PRIMARY DEPTH REFERENCE, Z-CHART USED AS SECONDARY.
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: PEX-HRLA	OS1:
OS2: CMR-ECS-HNGS	OS2:
OS3: 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 31-DEC-2010	

TOOL RUN AS PER TOOL SKETCH	
PAD PRESSURE=20	
AUTO GAIN LOW RANGE	
CLIENT REQUESTED 100 FT REPEAT SECTION	
VERY RUGOSE HOLE	
METAL STRIPS PRESENT IN MUD FROM CASING THREAD	
RIG: H&P 262	
THANK YOU FOR USING SCHLUMBERGER!	

RUN 1			RUN 2		
SERVICE ORDER #:	AUYB-00230		SERVICE ORDER #:		
PROGRAM VERSION:	19C0-187		PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

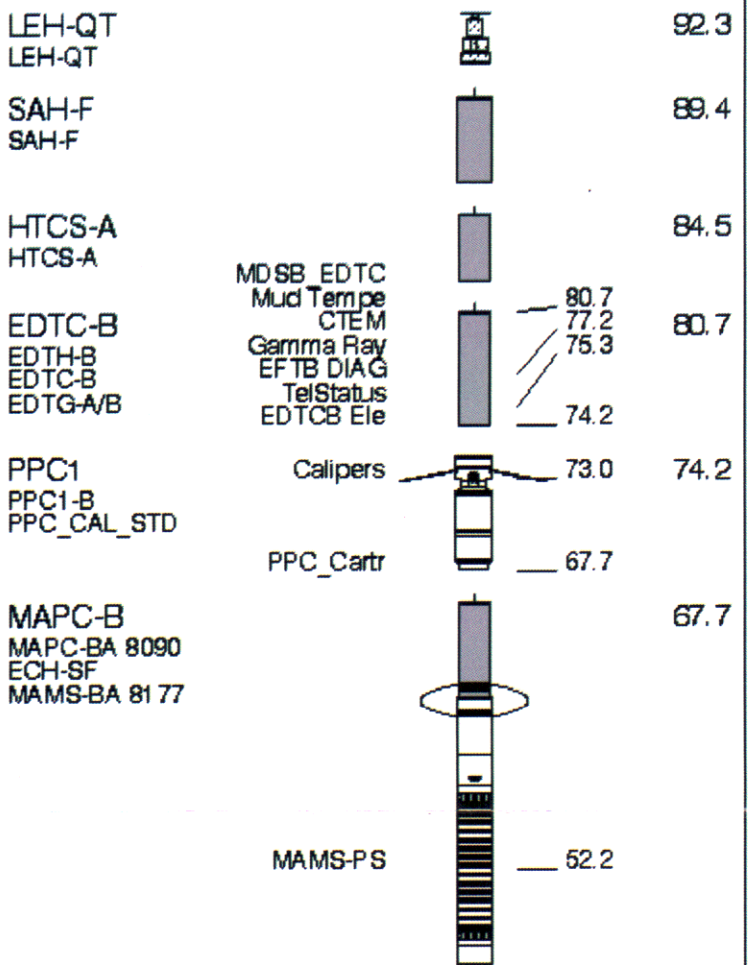
EQUIPMENT DESCRIPTION

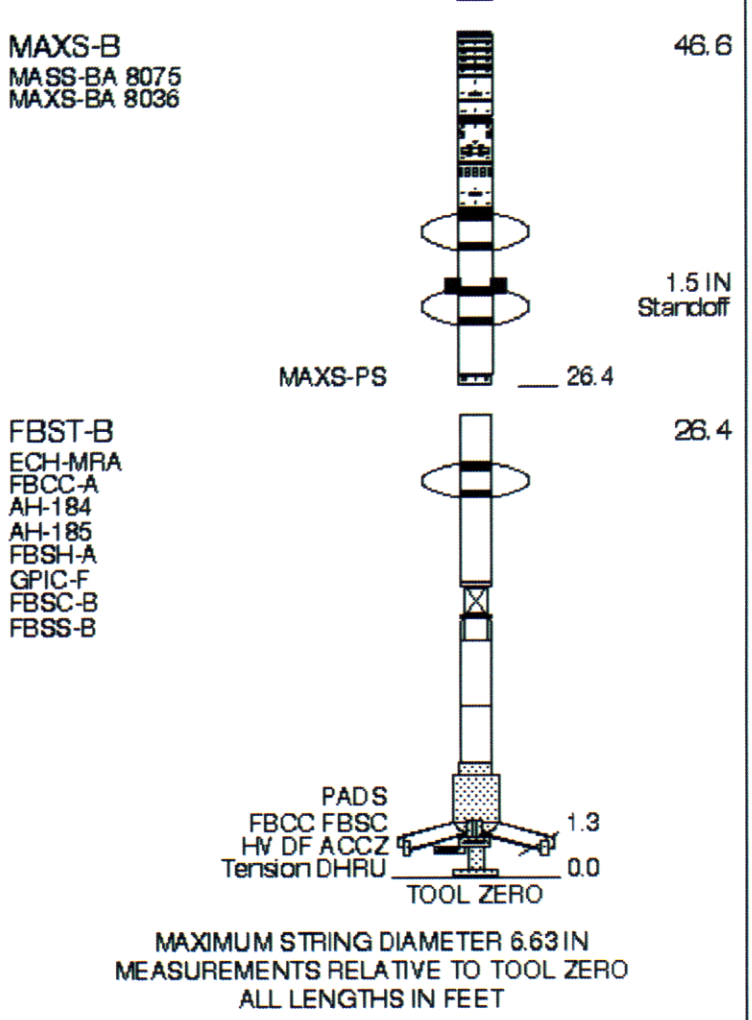
RUN 1 | RUN 2

SURFACE EQUIPMENT

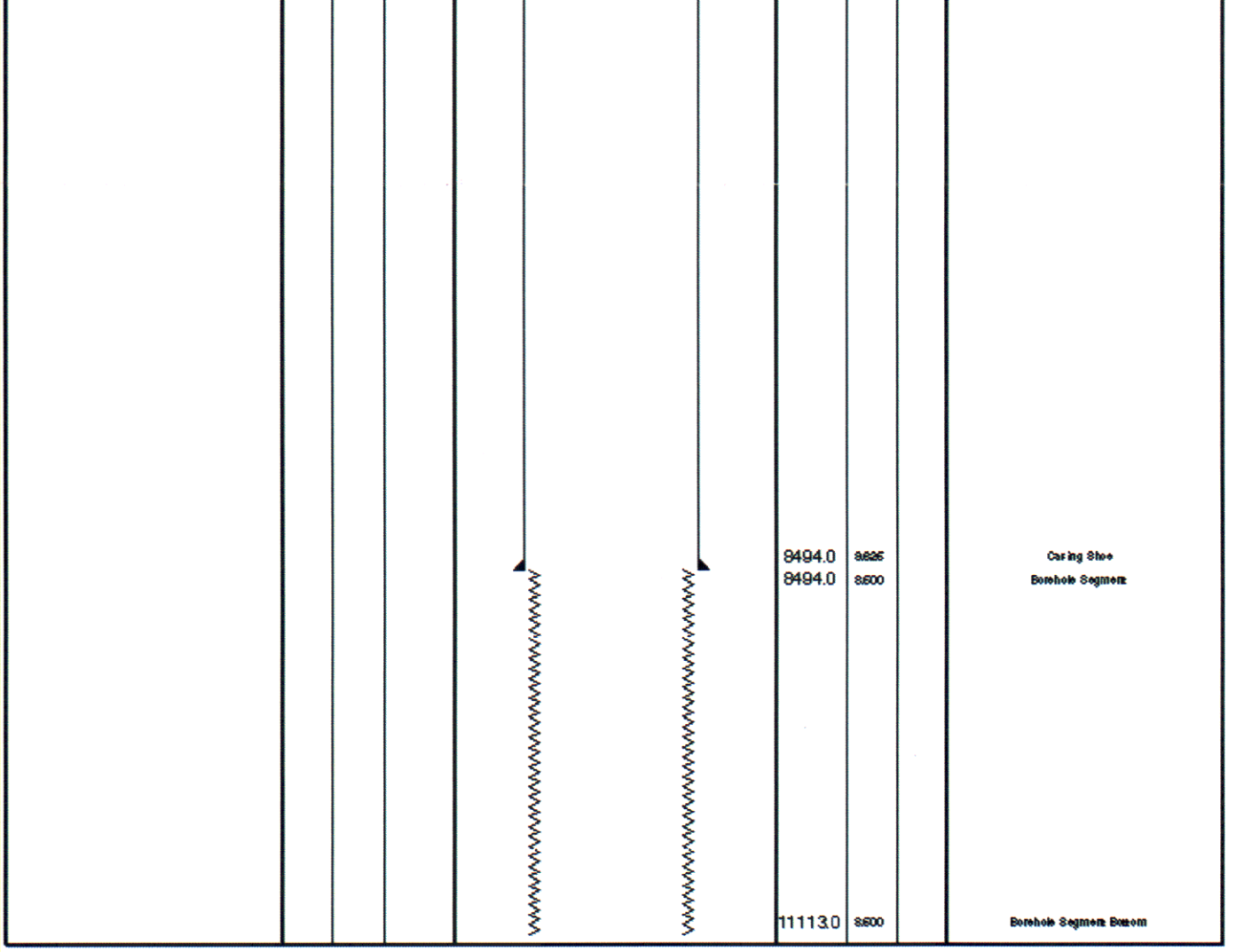
WITM (EDTS)-A

DOWNHOLE EQUIPMENT





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	8.625		Casing String
					1997.0	13.375	8.625	Liner Hanger



ALL DEPTHS ARE DRILLER'S DEPTHS

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

Input DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_055LUP	FN:68	PRODUCER	31-Dec-2010 14:18	11130.0 FT	8462.0 FT

Output DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_062PUP	FN:81	PRODUCER	31-Dec-2010 18:21	11144.0 FT	8476.0 FT
RTB	FMI_MAXS_MAPC_CAL_062PUP	FN:82	PRODUCER	31-Dec-2010 18:21	11144.0 FT	8476.0 FT
CLIENT	FMI_MAXS_MAPC_CAL_062PUC	FN:83	CUSTOMER	31-Dec-2010 18:21	11144.0 FT	8476.0 FT

OP System Version: 19C0-187

FBST-B	19C0-187	MAXS-B	19C0-187
MAPC-B	19C0-187	PPC1	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

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

Deviation (DEVIM)
0 (DEG) 10

Tension (TENS)
10000 (LBF) 0

Caliper 2 (C2)
10 (IN) 20

EMEX Intensity (EI)
0 (AMPS) 10

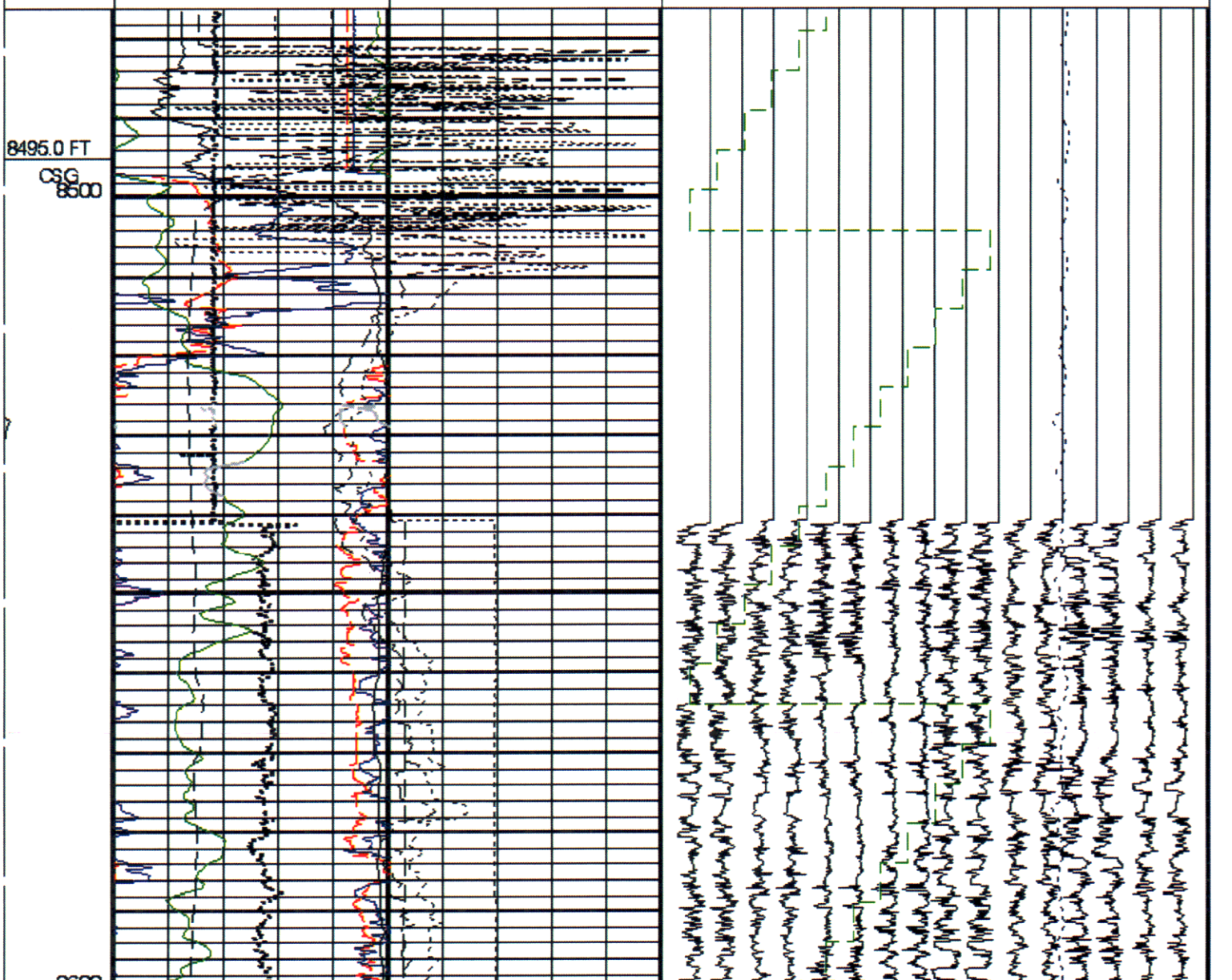
FMI resistivity buttons #1 to 16
RB16 RB15 RB14 RB13 RB12 RB11 RB10 RB9 RB8 RB7 RB6 RB5 RB4 RB3 RB2 RB1

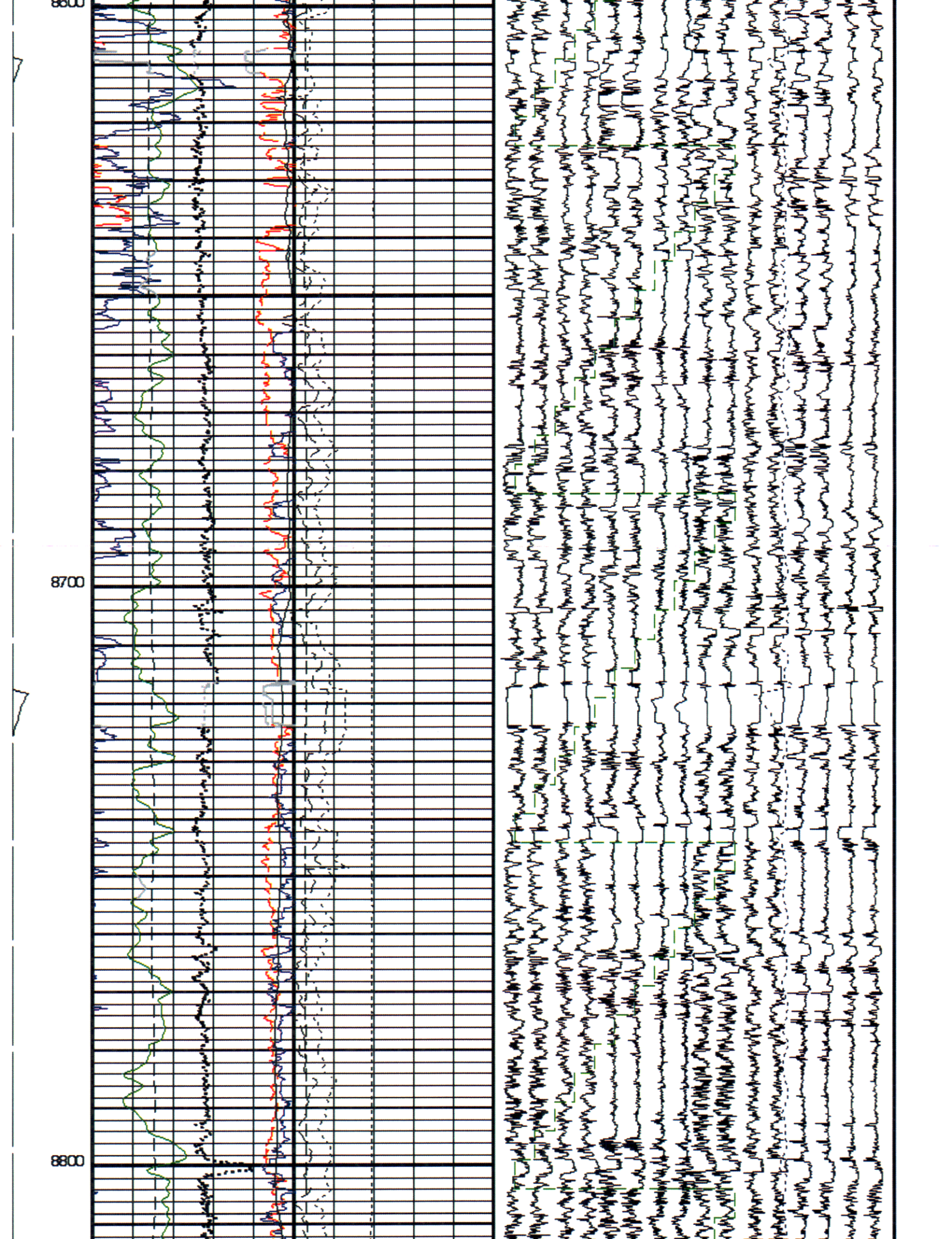
Stuck Stretch (STIT)
0 (F) 50

Caliper 1 (C1)
10 (IN) 20

EMEX Voltage (EV)
0 (V) 50

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

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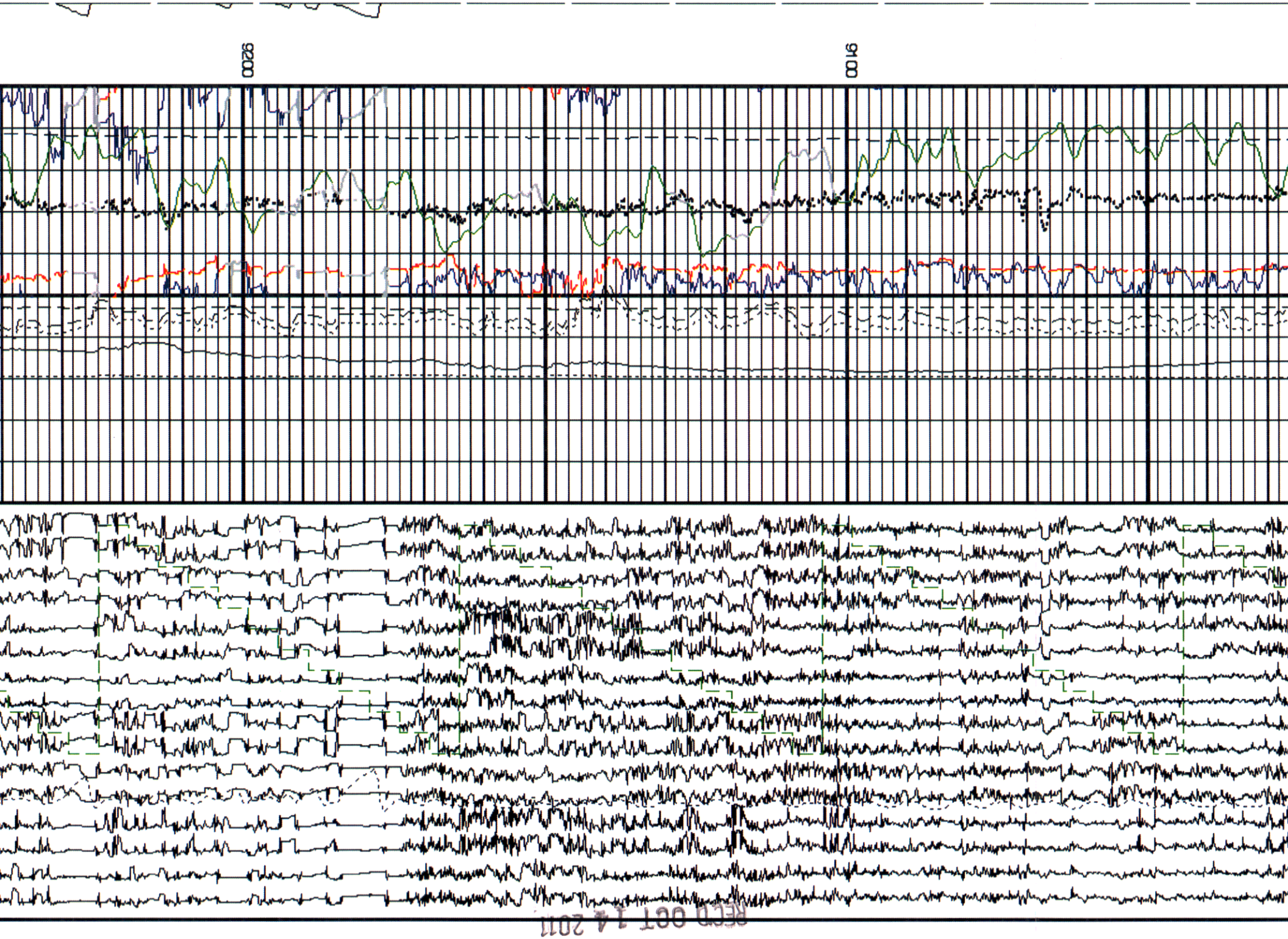

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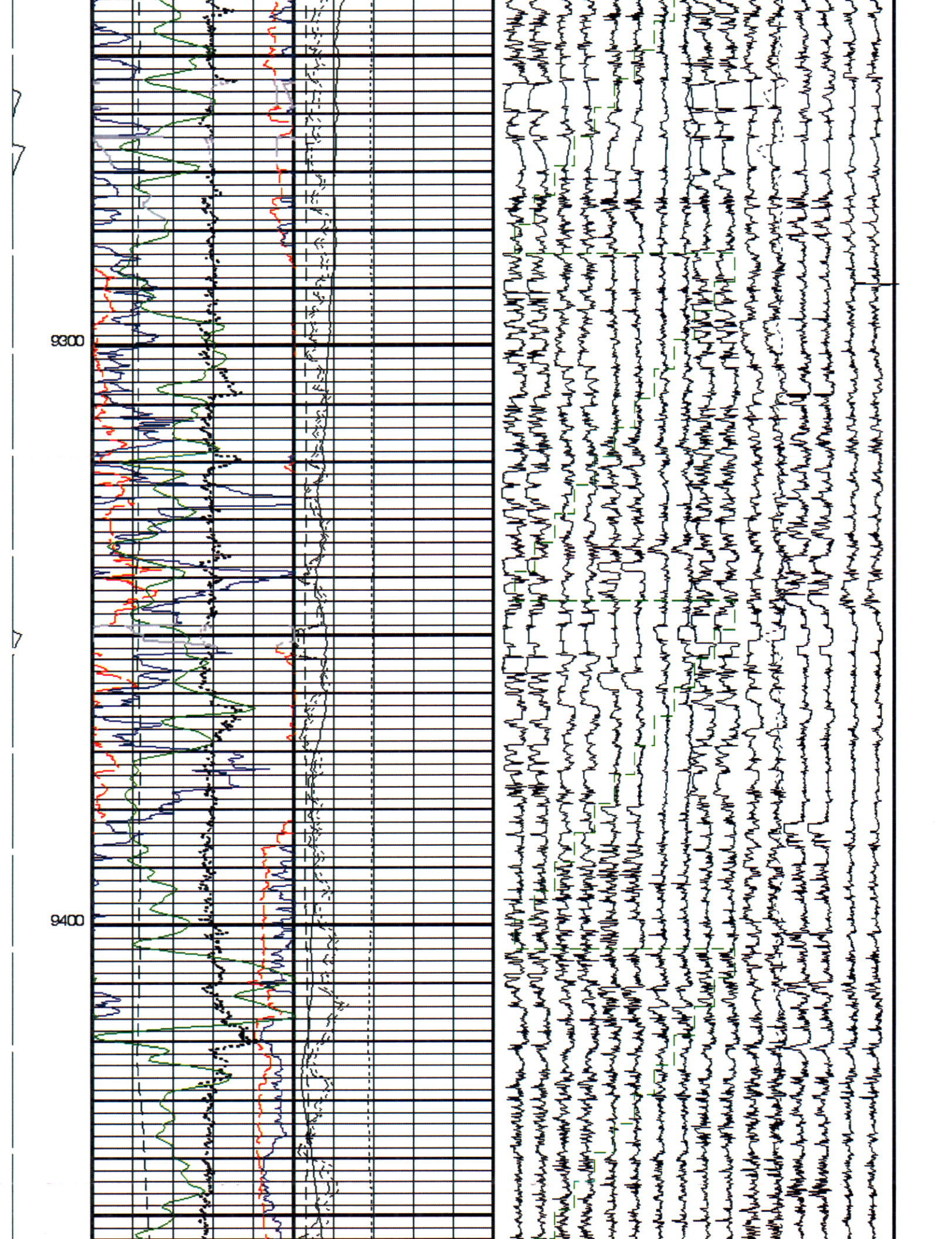
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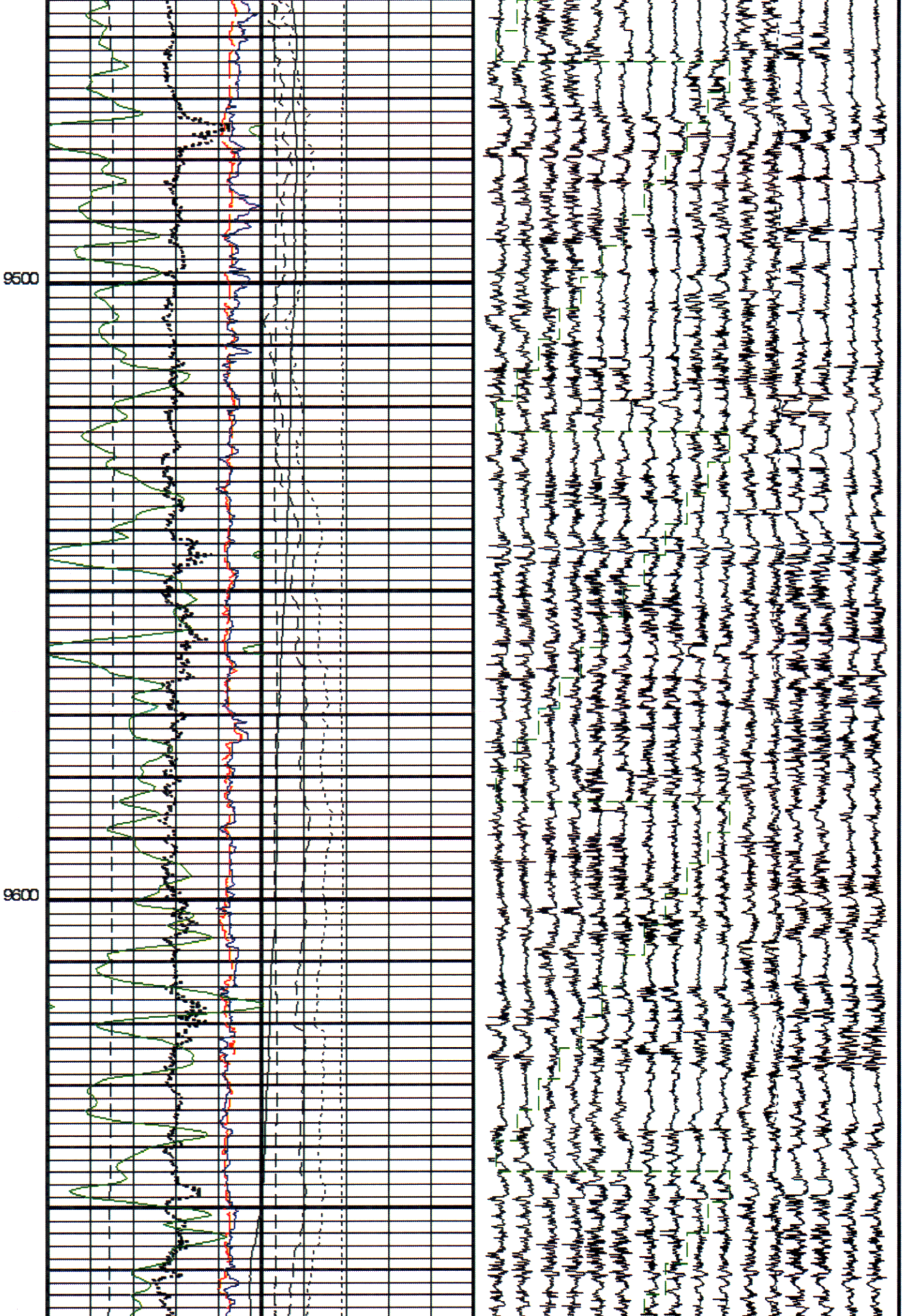
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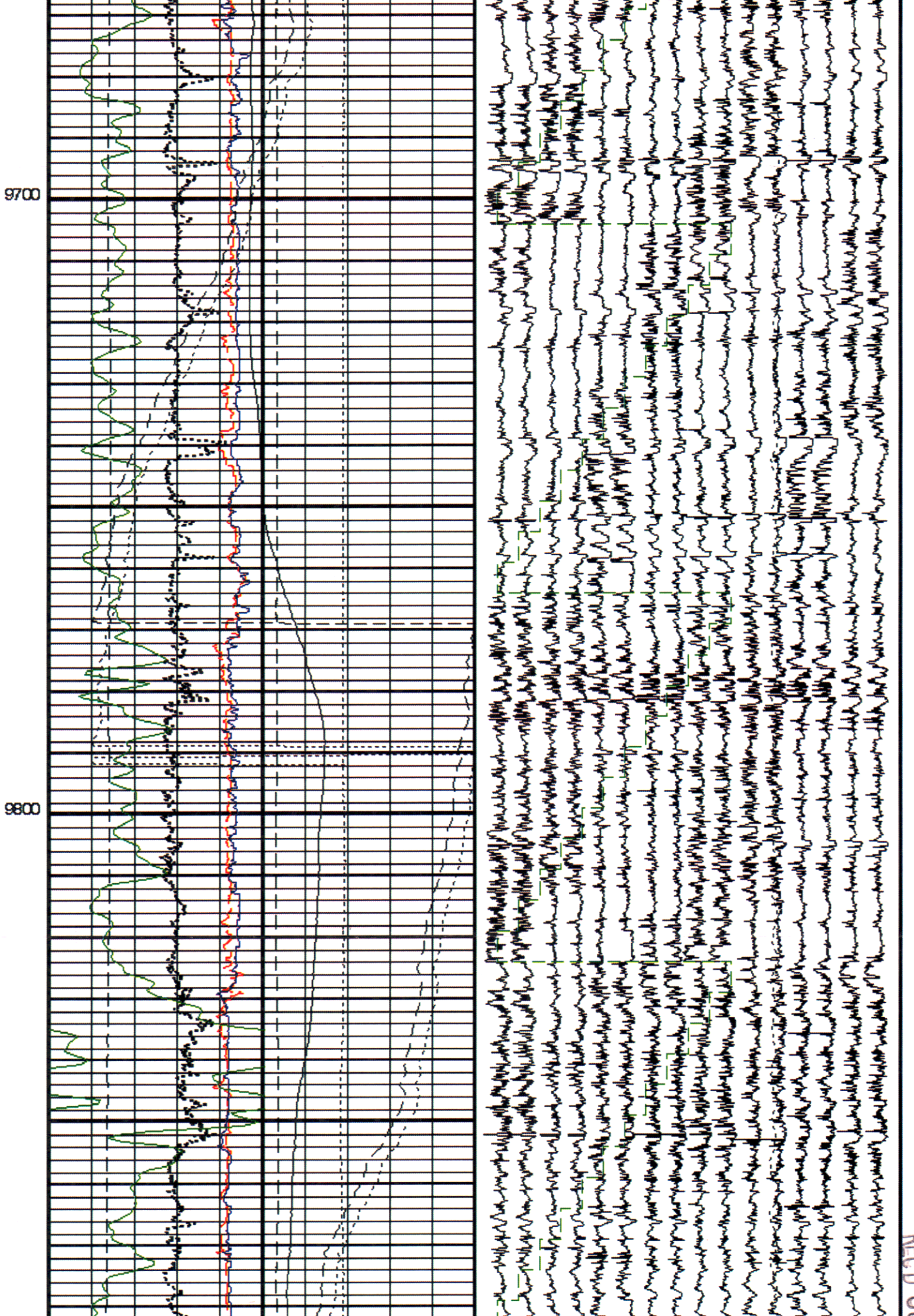

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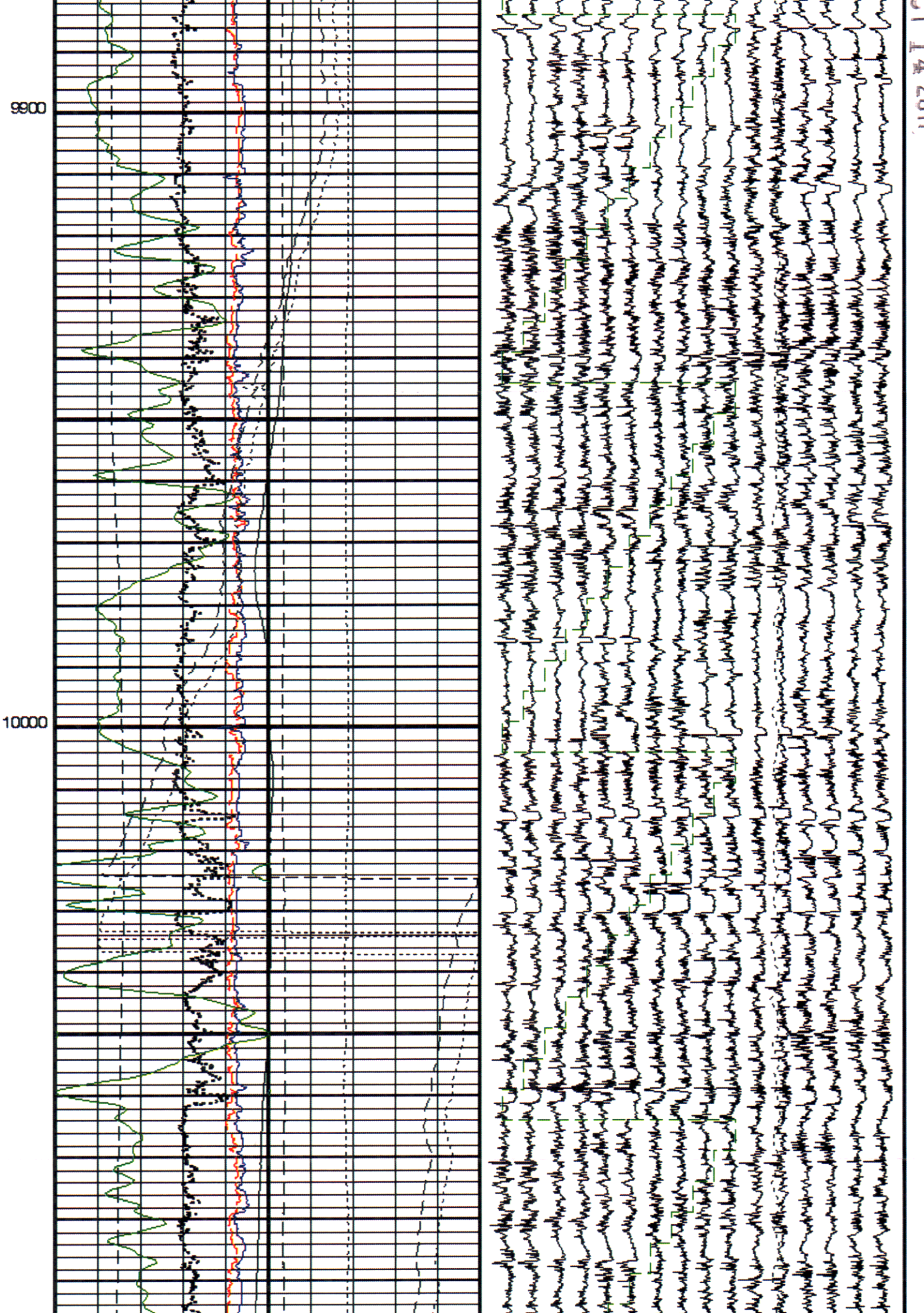

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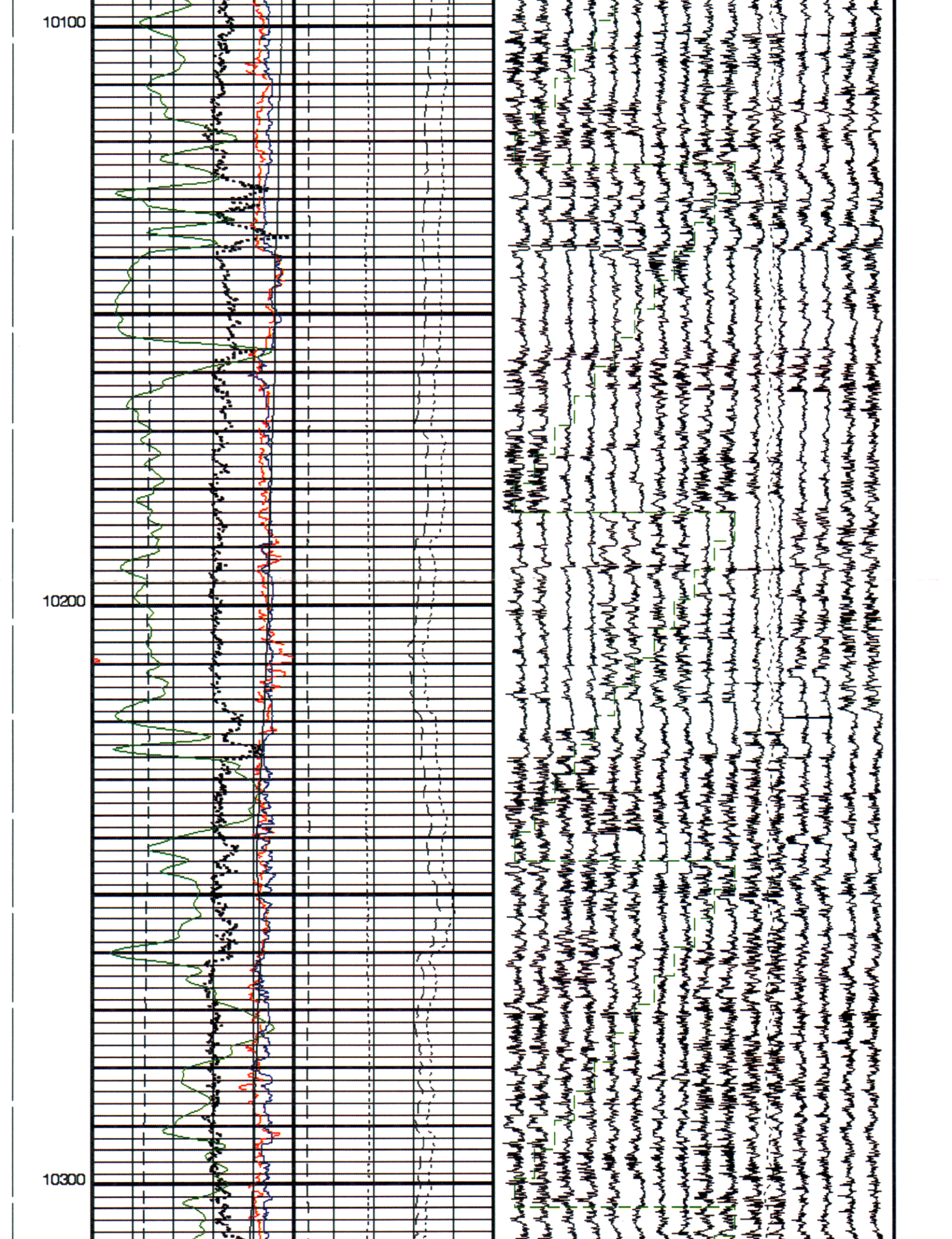
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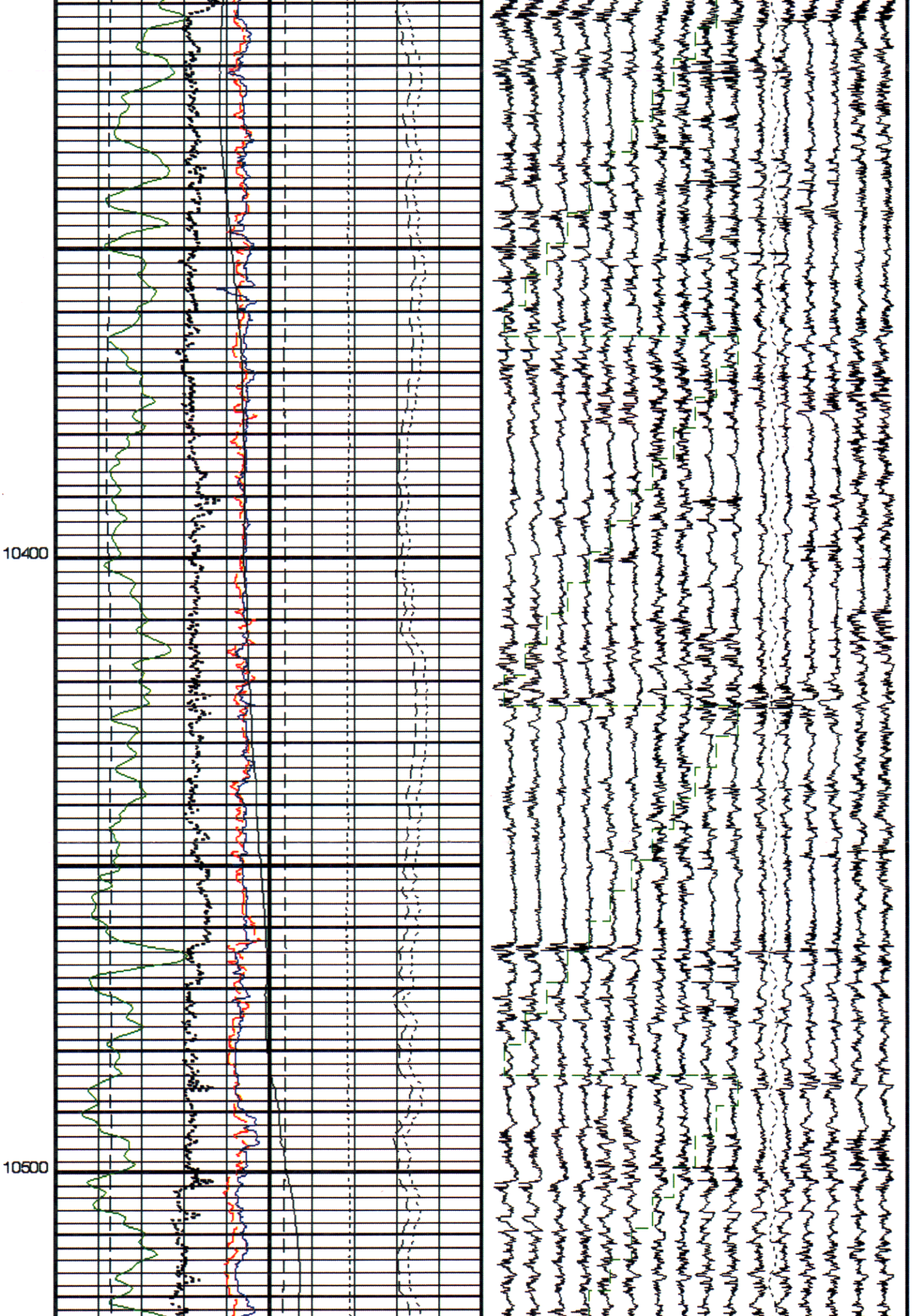

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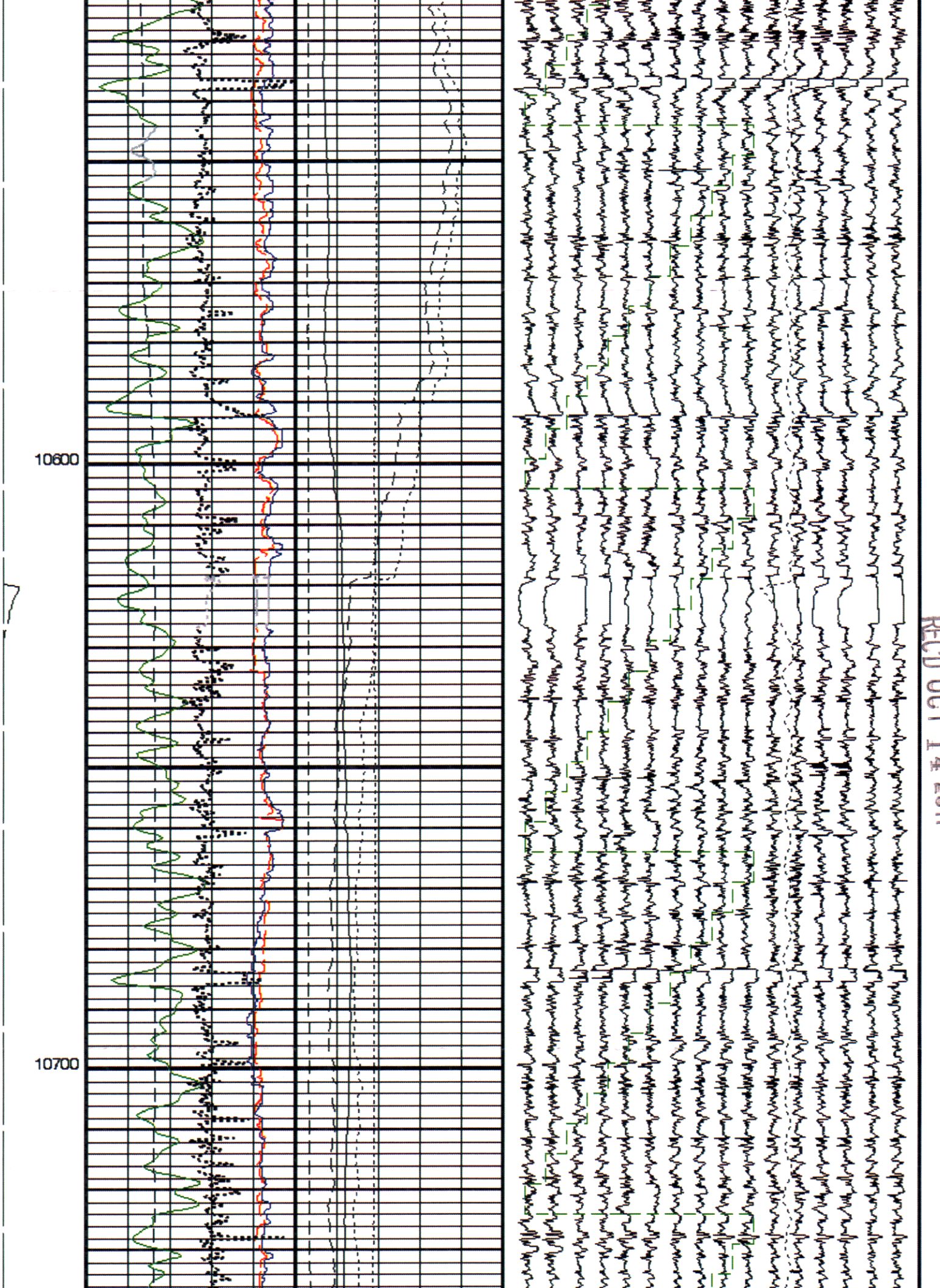

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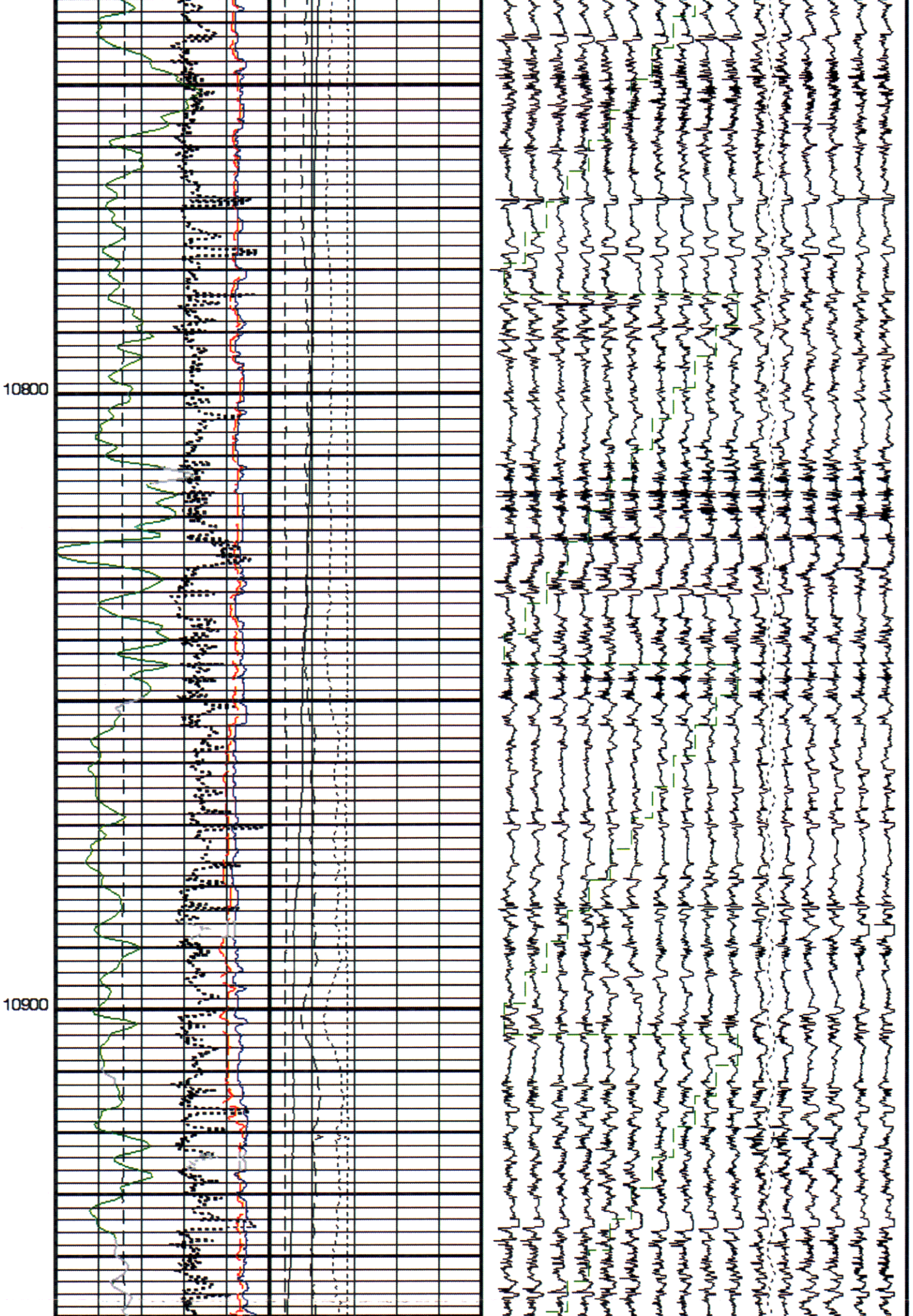
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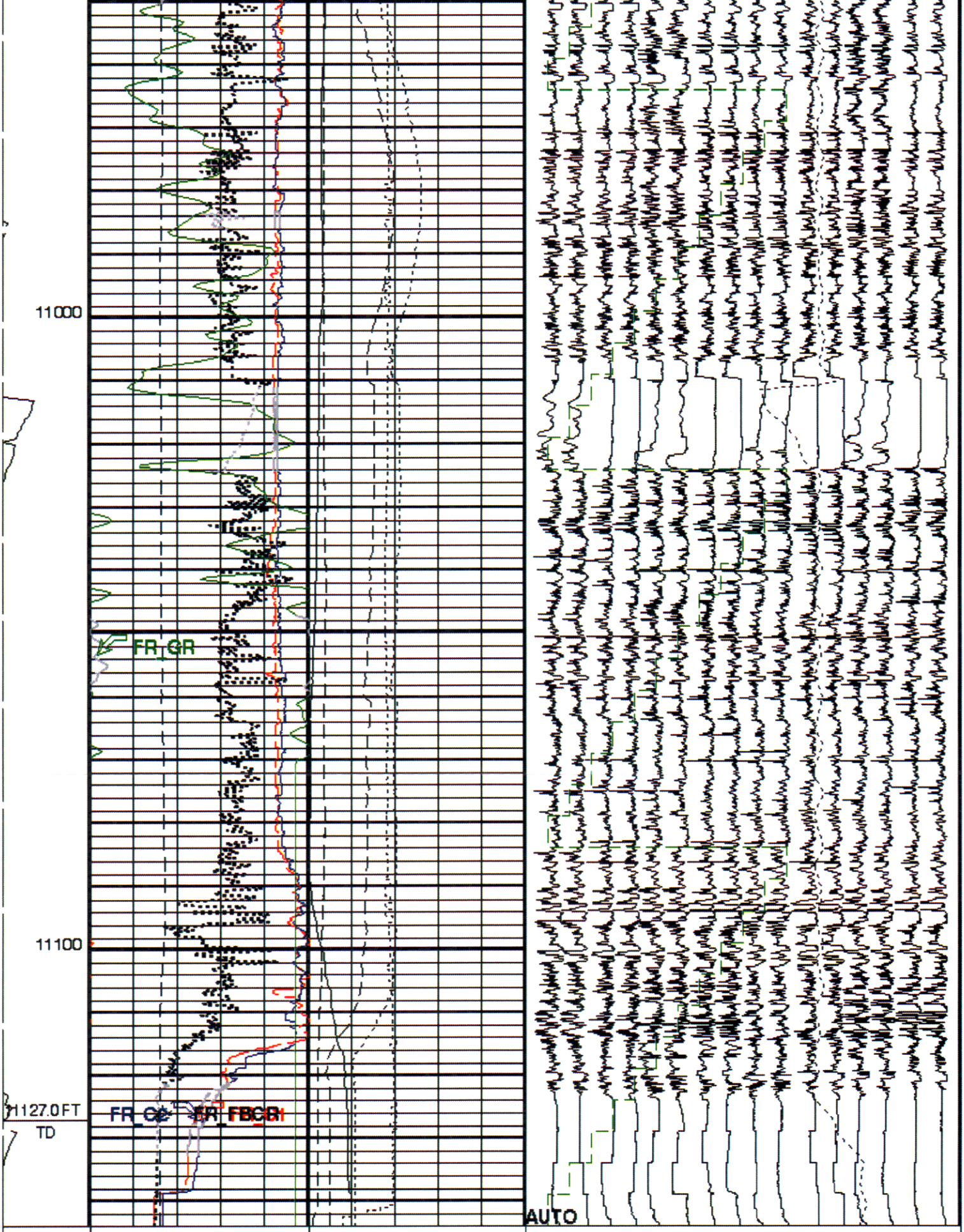

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Caliper 2 (C2)			EMEX Intensity (EI)		
10	(IN)	20	0	(AMPS)	10

RB16 RB15 RB14 RB13 RB12 RB11 RB10 RB9 RB8 RB7 RB6 RB5 RB4 RB3 RB2 RB1

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	12.5994	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	11113.00	FT
TDL	Total Depth - Logger	11127.00	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	14.0	FT
PP	Playback Processing	OFF	

Format: FMI_LQC Vertical Scale: 5" per 100' Graphics File Created: 31-Dec-2010 18:21

OP System Version: 19C0-187

FBST-B	19C0-187	MAXS-B	19C0-187
MAPC-B	19C0-187	PPC1	19C0-187
EDTC-B	19C0-187		

Input DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_055LUP	FN:68	PRODUCER	31-Dec-2010 14:18	11130.0 FT	8462.0 FT

Output DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_062PUP	FN:81	PRODUCER	31-Dec-2010 18:21
RTB	FMI_MAXS_MAPC_CAL_062PUP	FN:82	PRODUCER	31-Dec-2010 18:21
CLIENT	FMI_MAXS_MAPC_CAL_062PUC	FN:83	CUSTOMER	31-Dec-2010 18:21

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

Input DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_055LUP	FN:68	PRODUCER	31-Dec-2010 14:18	11130.0 FT	8462.0 FT

Output DLIS Files

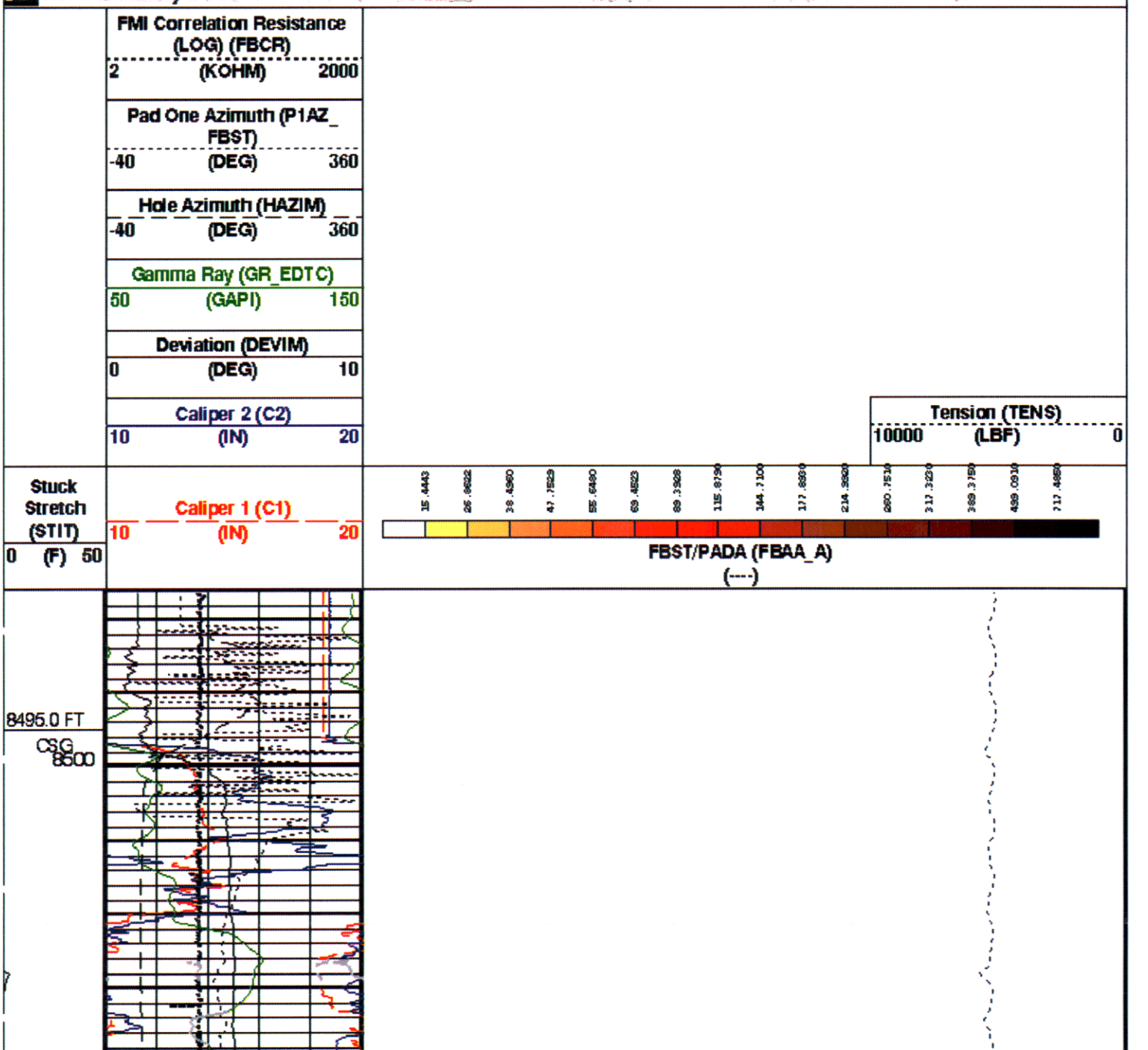
DEFAULT	FMI_MAXS_MAPC_CAL_062PUP	FN:81	PRODUCER	31-Dec-2010 18:21	11144.0 FT	8476.0 FT
RTB	FMI_MAXS_MAPC_CAL_062PUP	FN:82	PRODUCER	31-Dec-2010 18:21	11144.0 FT	8476.0 FT
CLIENT	FMI_MAXS_MAPC_CAL_062PUC	FN:83	CUSTOMER	31-Dec-2010 18:21	11144.0 FT	8476.0 FT

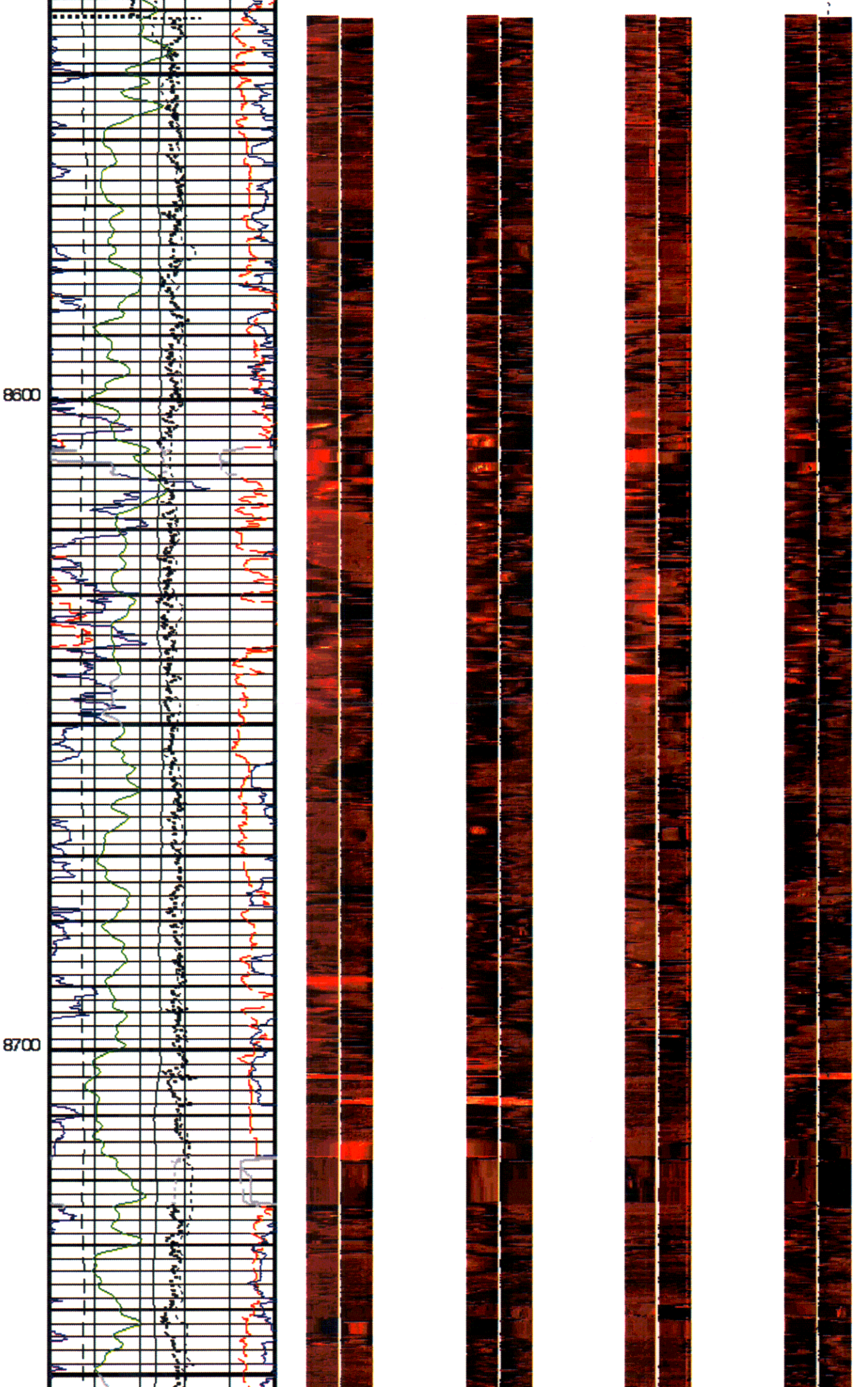
OP System Version: 19C0-187

FBST-B	19C0-187	MAXS-B	19C0-187
MAPC-B	19C0-187	PPC1	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

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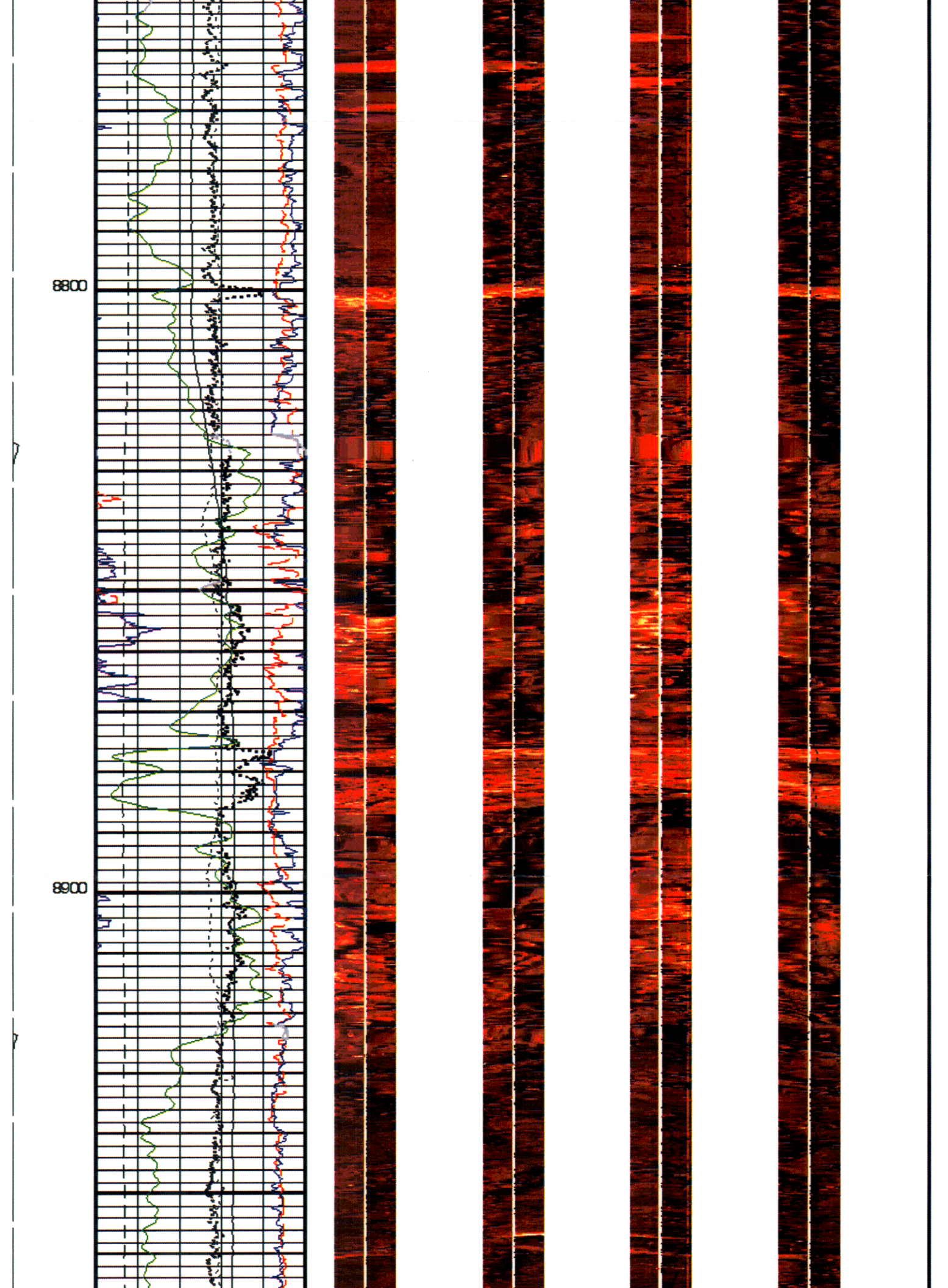
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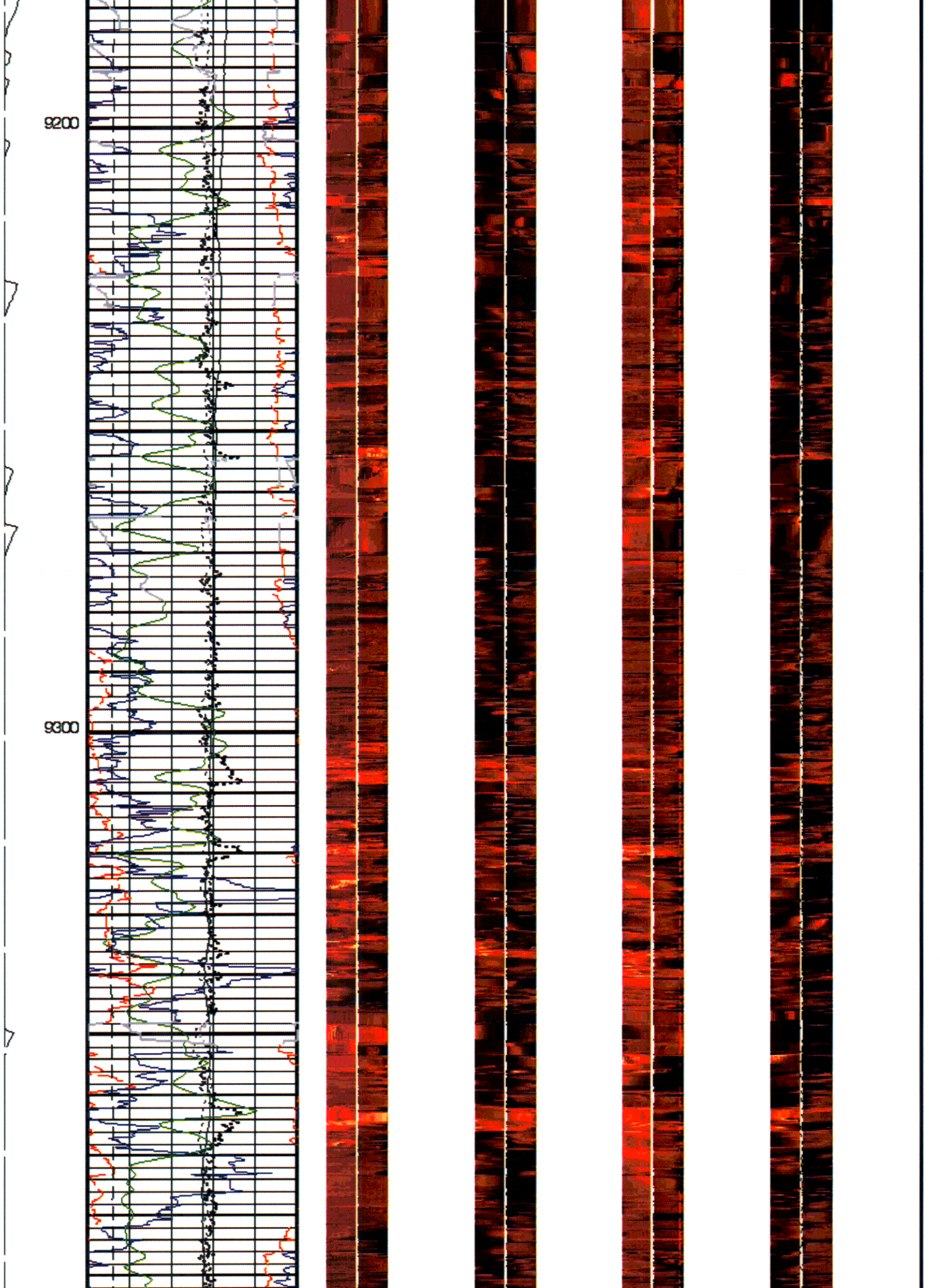
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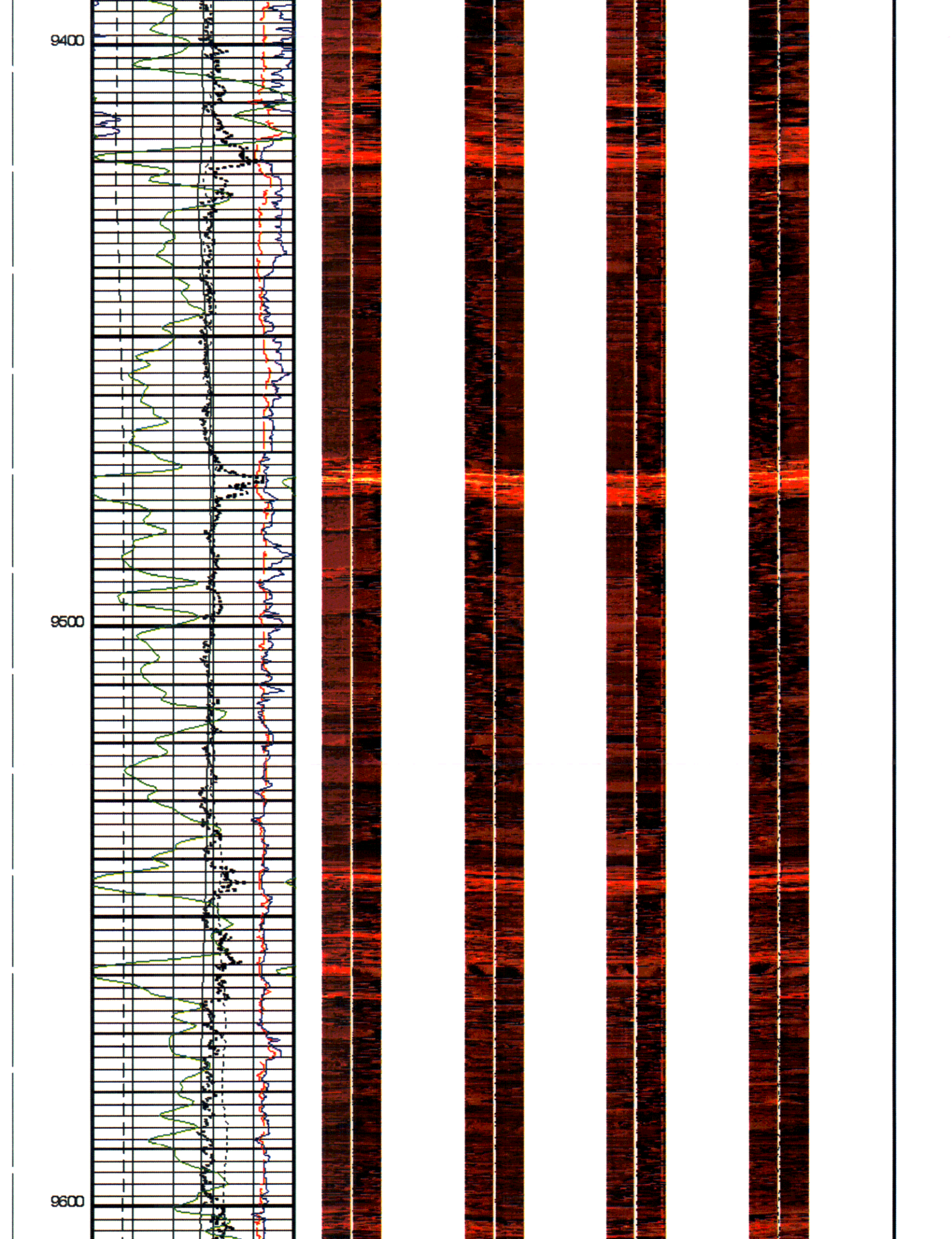
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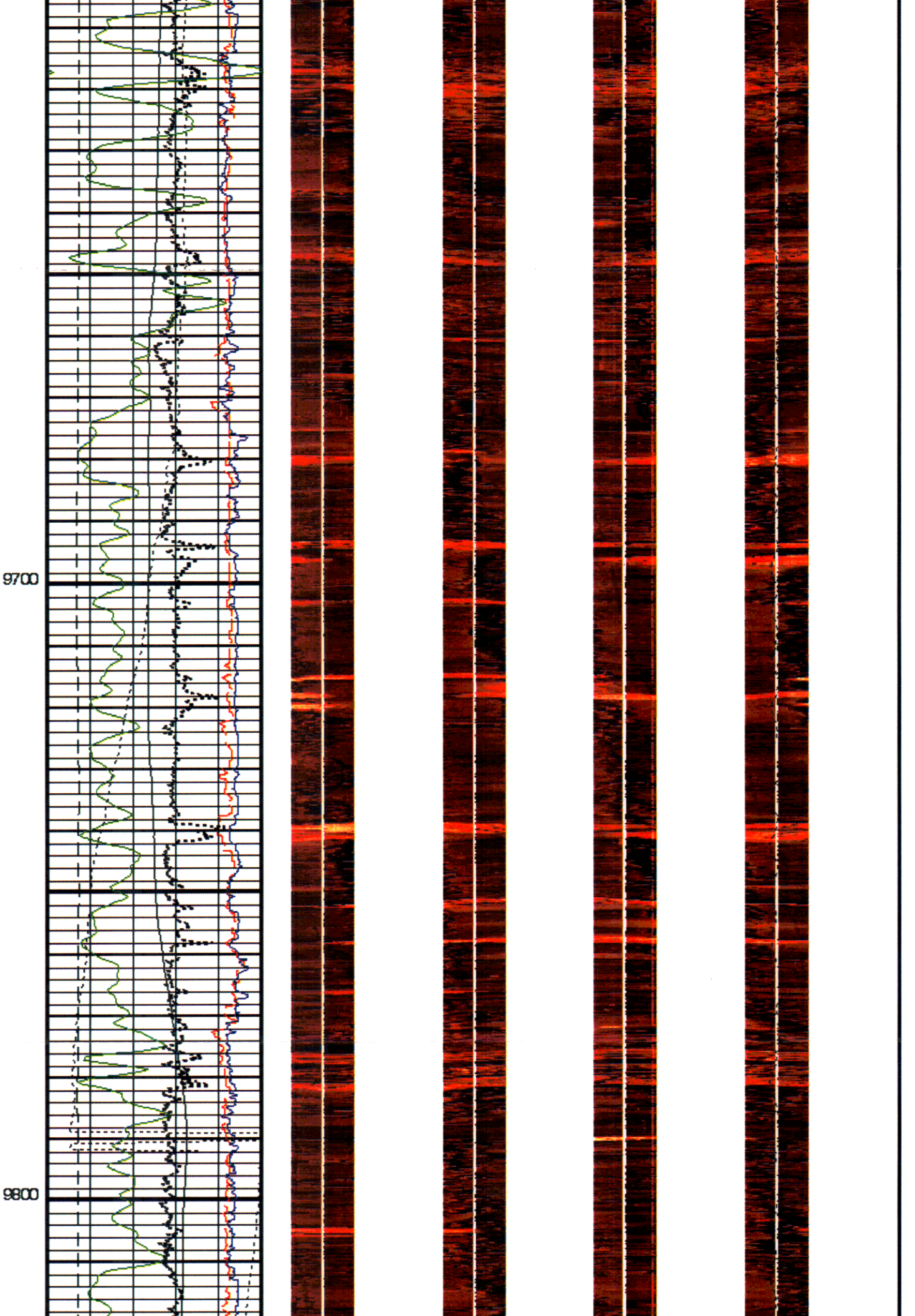
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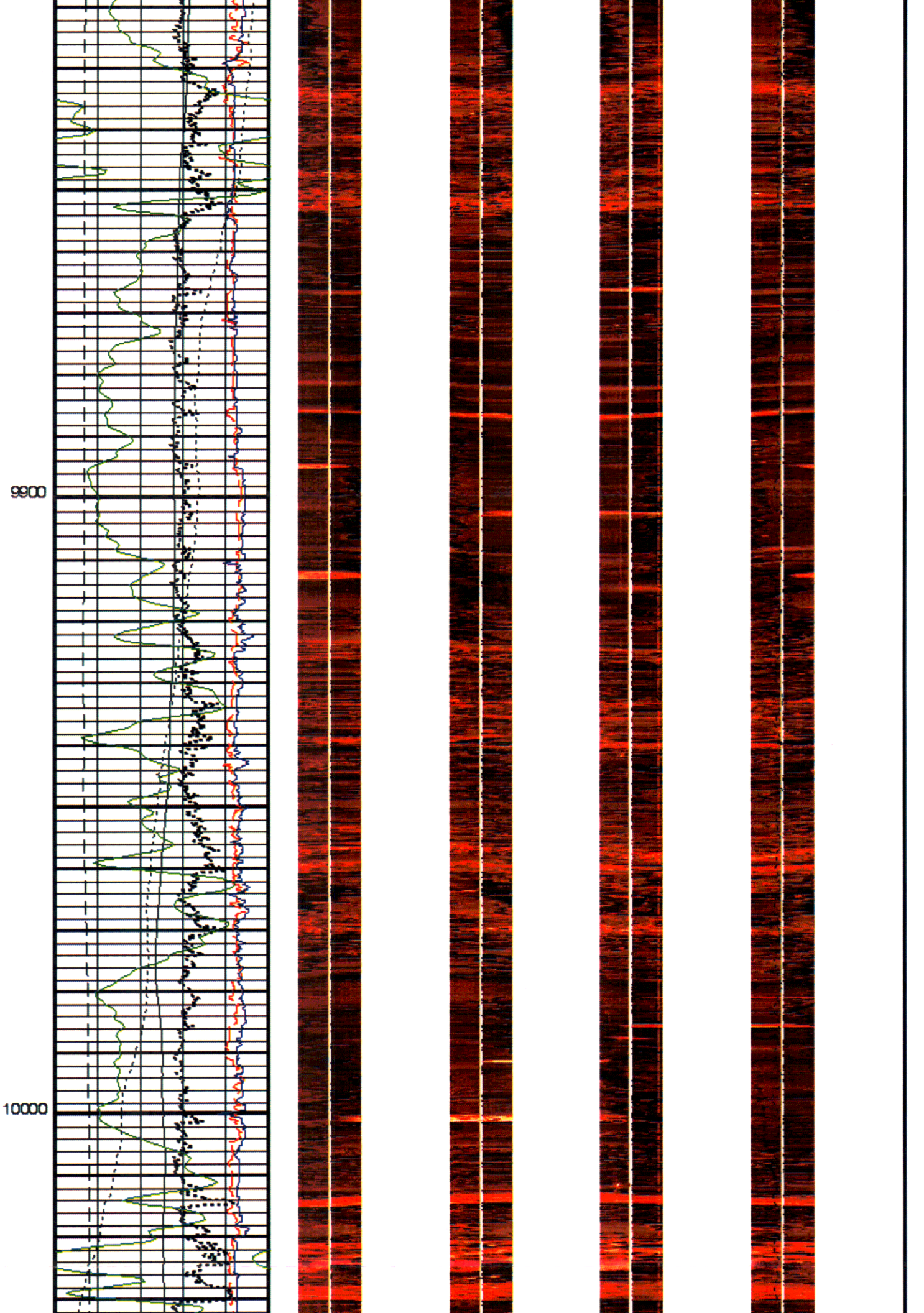
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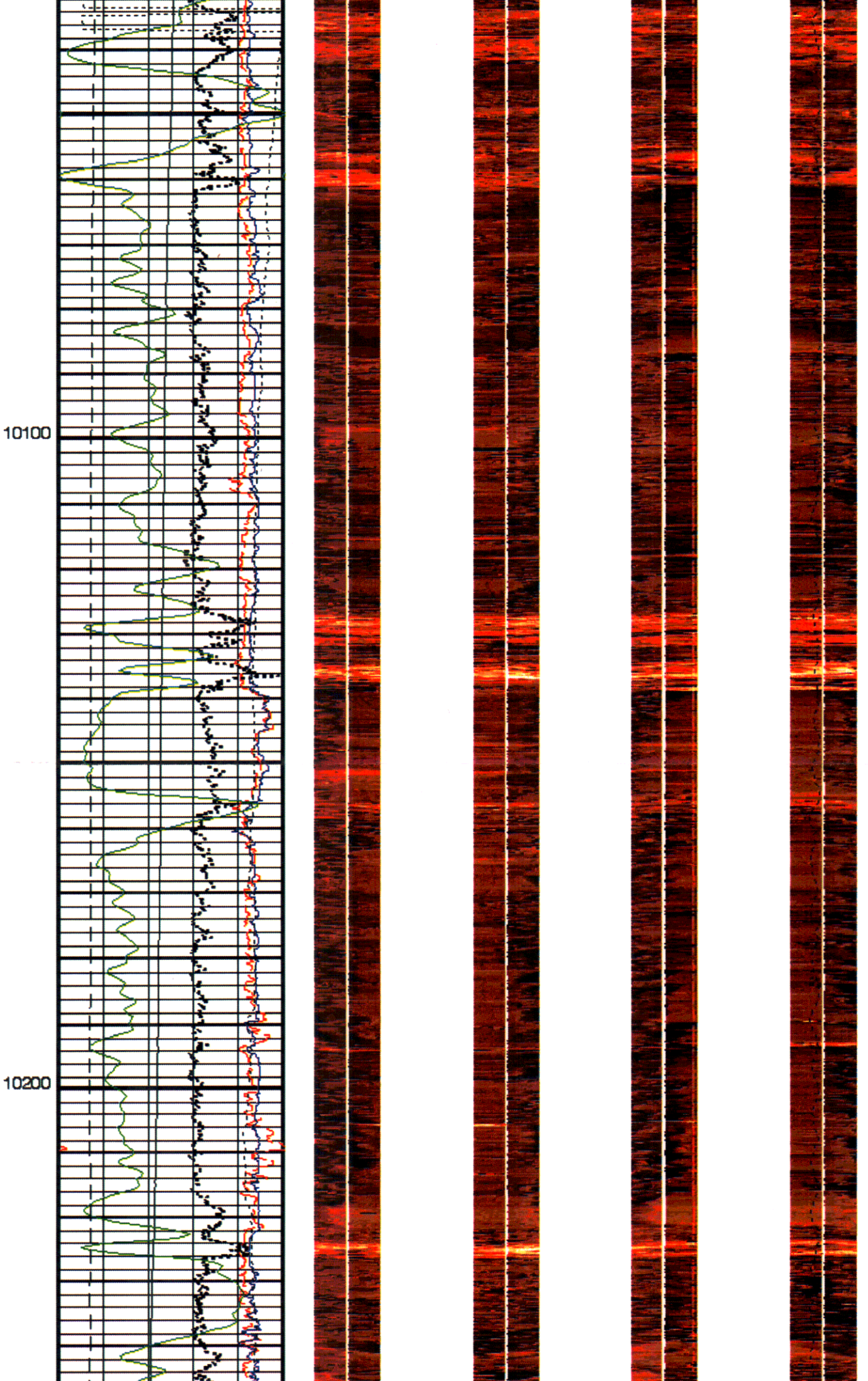
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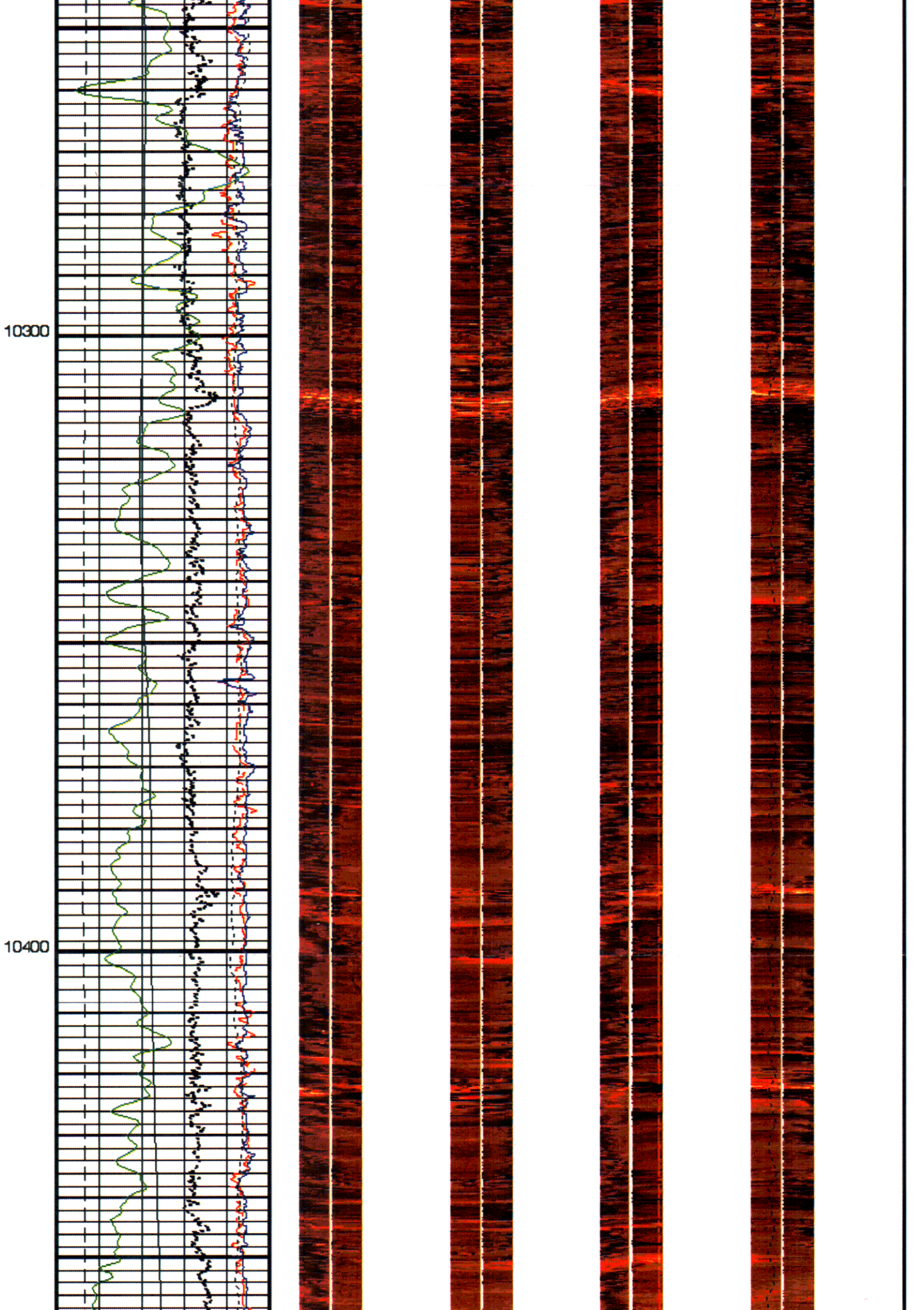
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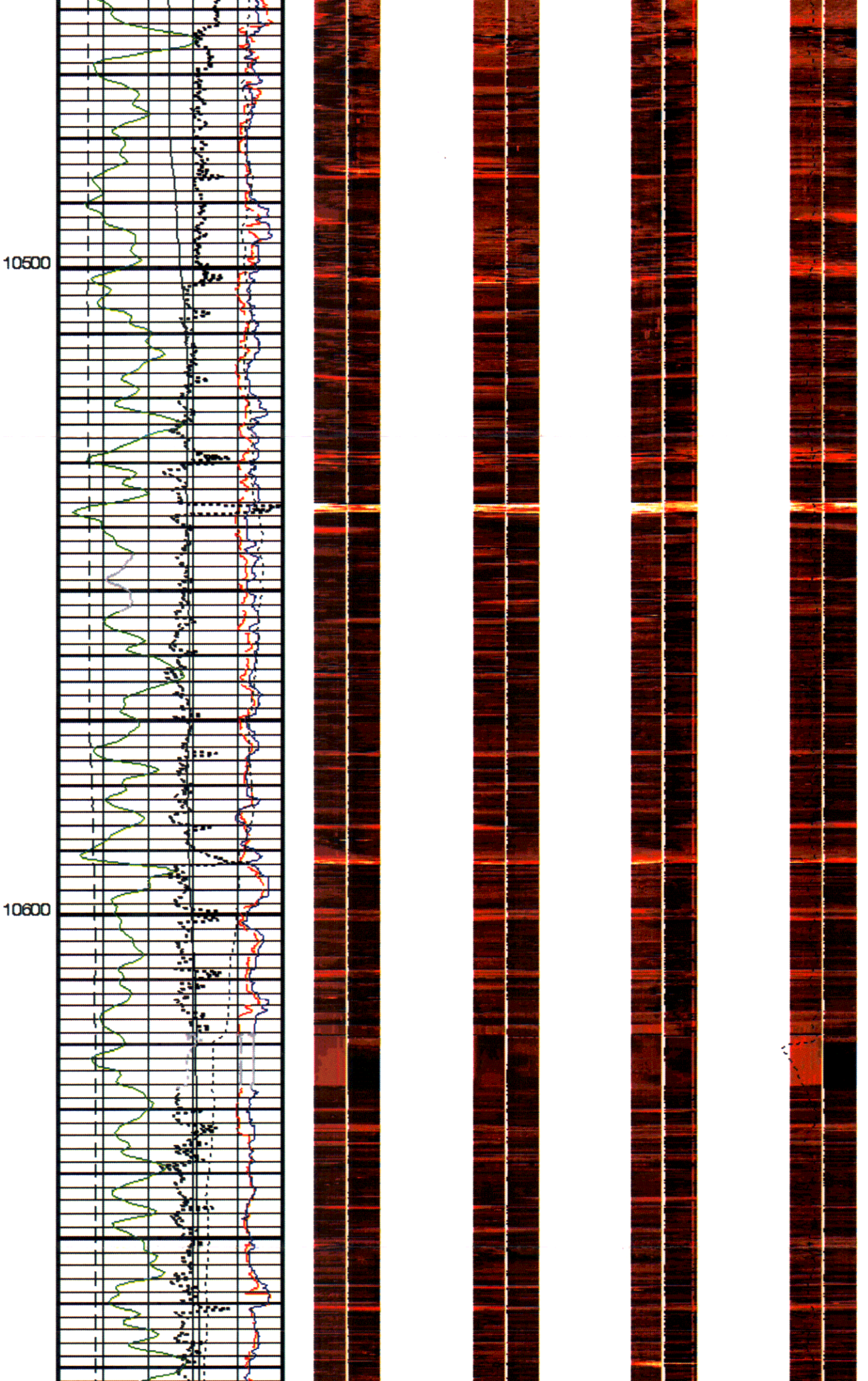
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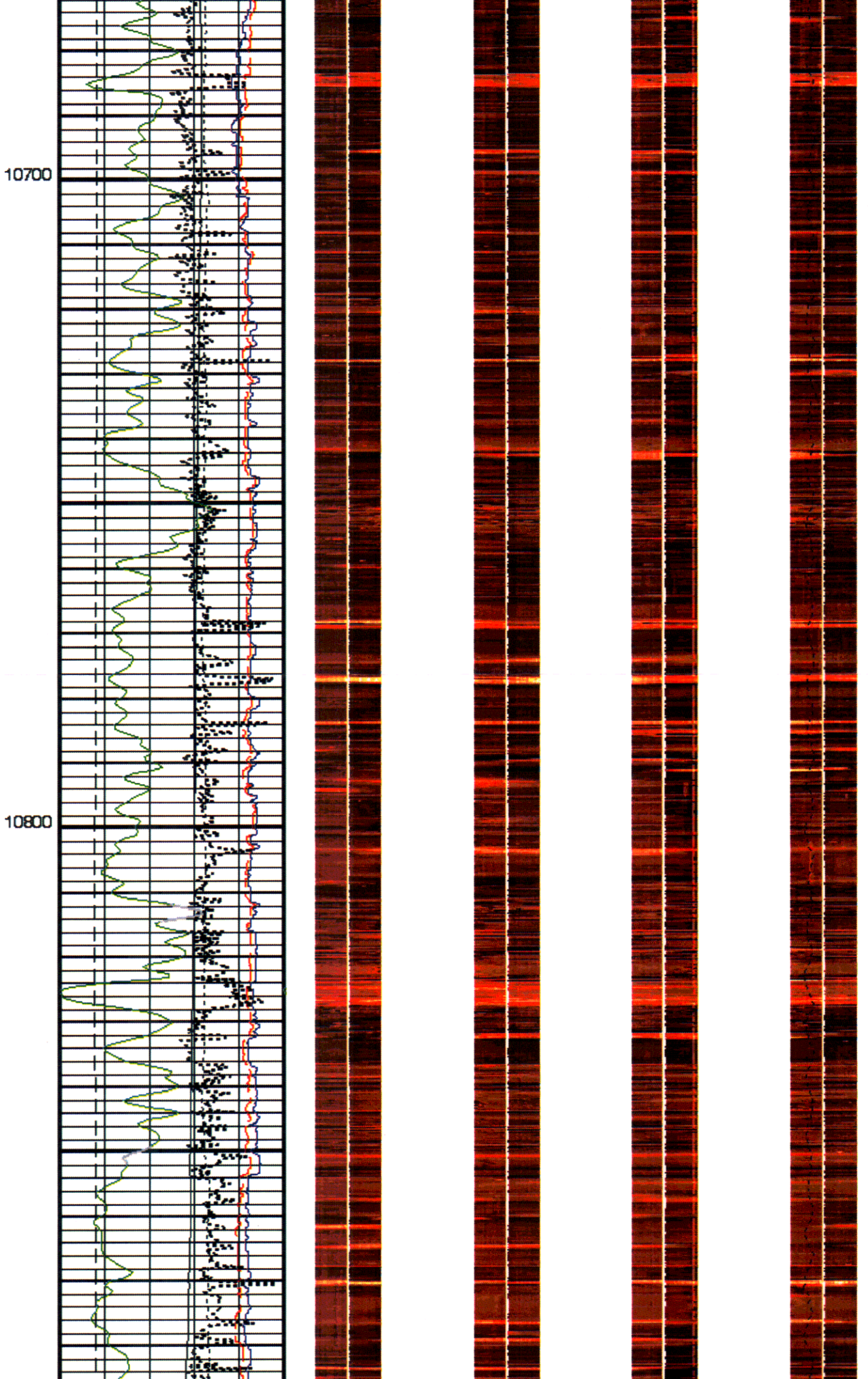
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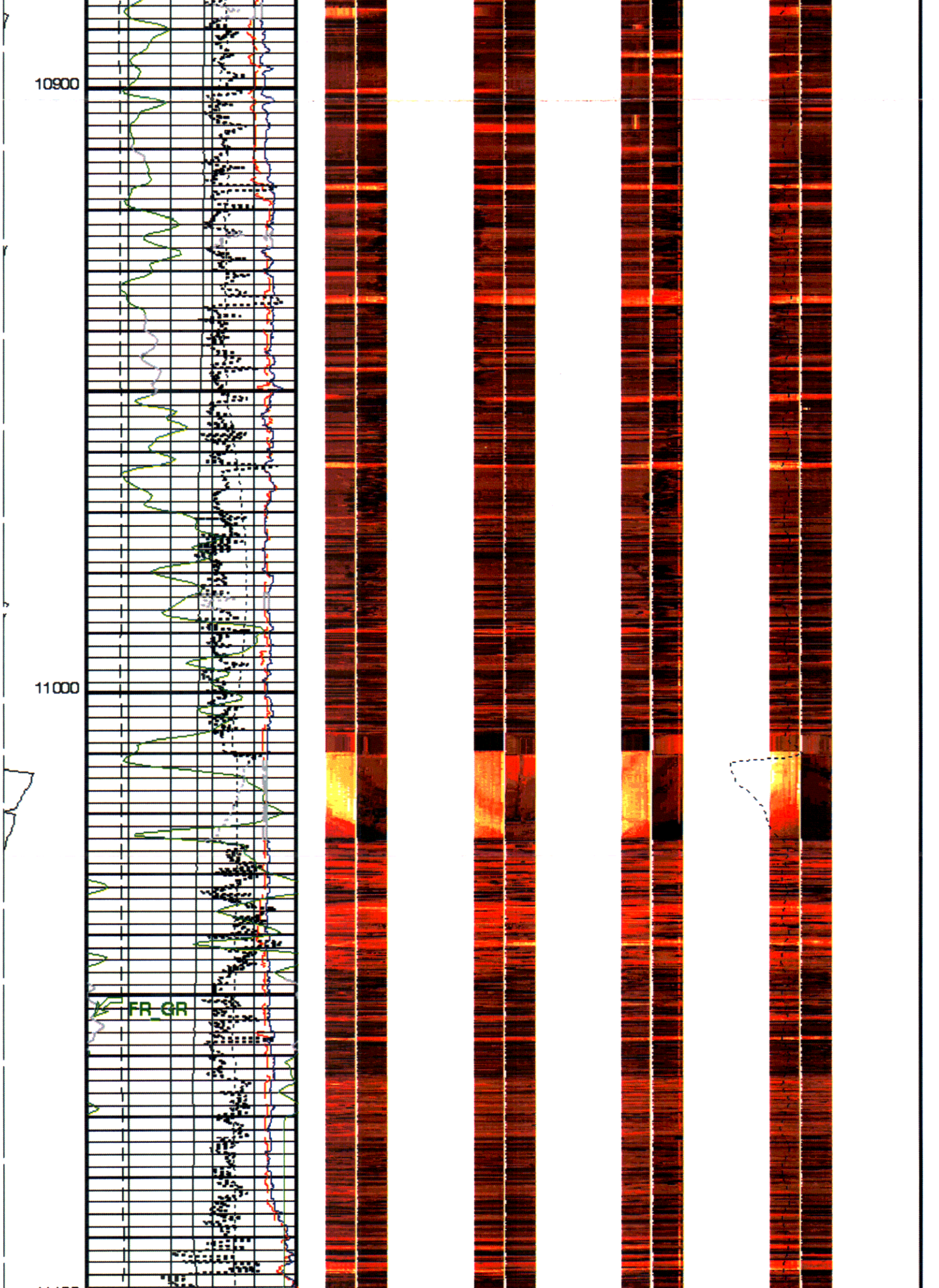
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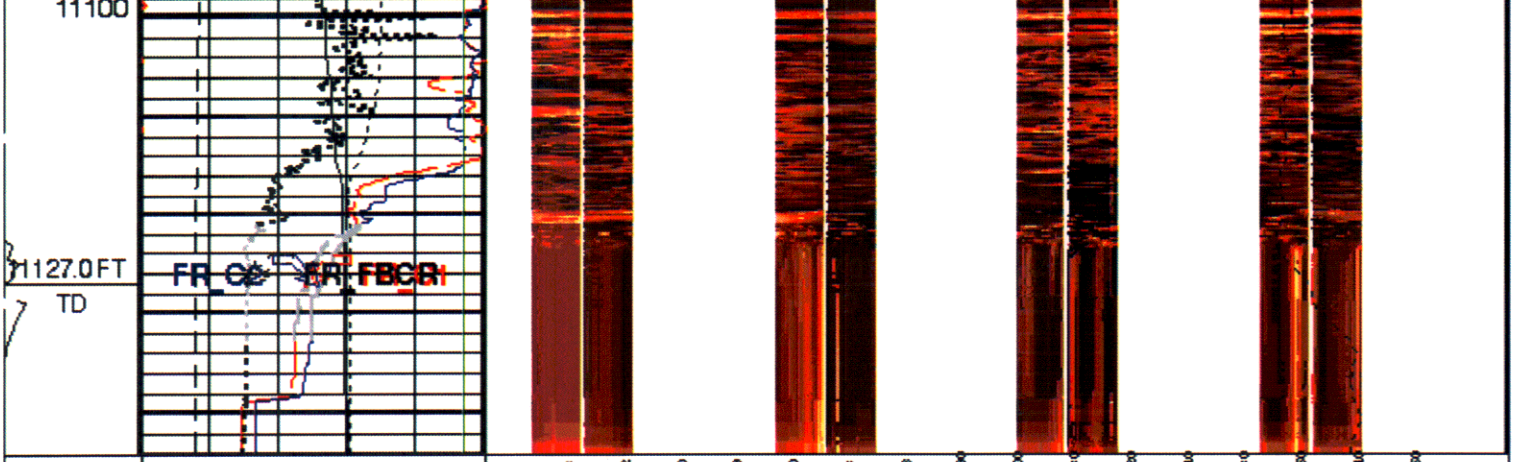


Stuck Stretch (STIT)	Caliper 1 (C1)	FBST/PADA (FBAA_A)
0 (F) 50	10 (IN) 20	(---)

Caliper 2 (C2)	Tension (TENS)
10 (IN) 20	10000 (LBF) 0

Deviation (DEVIM)	Gamma Ray (GR_EDTC)	Hole Azimuth (HAZIM)	Pad One Azimuth (P1AZ_FBST)	FMI Correlation Resistance (LOG) (FBCR)
0 (DEG) 10	50 (GAPI) 150	-40 (DEG) 360	-40 (DEG) 360	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: 31-Dec-2010 18:21

OP System Version: 19C0-187

FBST-B	19C0-187	MAXS-B	19C0-187
MAPC-B	19C0-187	PPC1	19C0-187
EDTC-B	19C0-187		

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	12.5994 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
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	11113.00	FT
TDL	Total Depth - Logger	11127.00	FT
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
DO	Depth Offset for Playback	14.0	FT
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	OFF	

Input DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_055LUP	FN:68	PRODUCER	31-Dec-2010 14:18	11130.0 FT	8462.0 FT

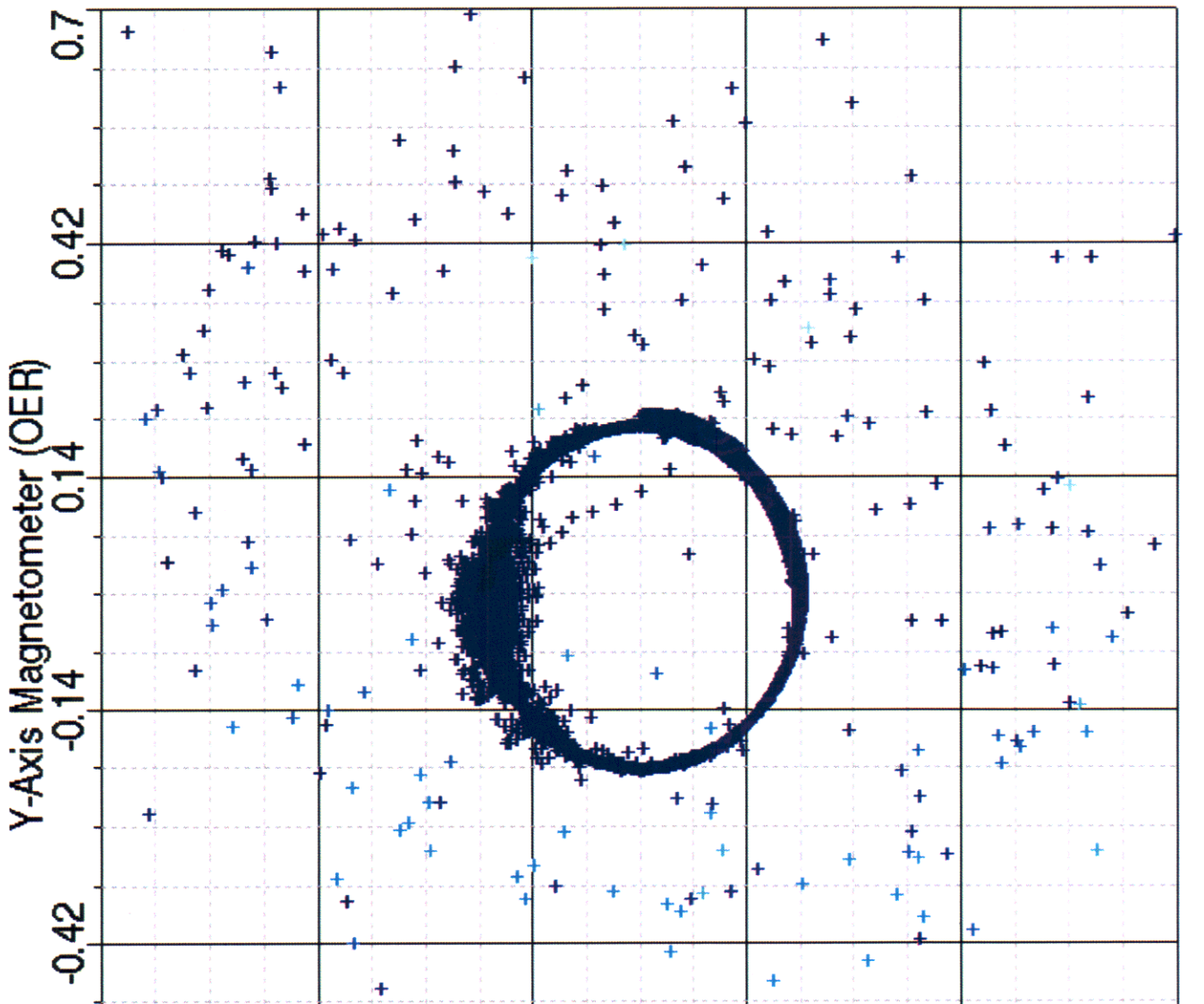
Output DLIS Files

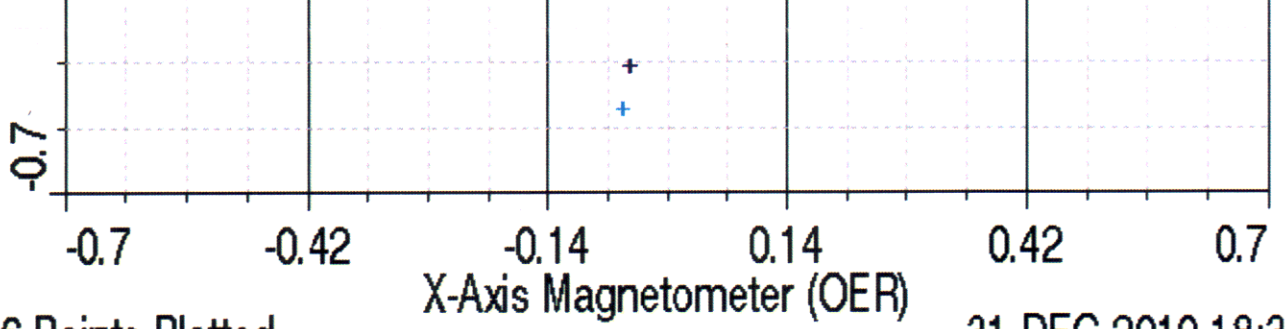
DEFAULT	FMI_MAXS_MAPC_CAL_062PUP	FN:81	PRODUCER	31-Dec-2010 18:21
RTB	FMI_MAXS_MAPC_CAL_062PUP	FN:82	PRODUCER	31-Dec-2010 18:21
CLIENT	FMI_MAXS_MAPC_CAL_062PUC	FN:83	CUSTOMER	31-Dec-2010 18:21

Index: 11144.0 - 8476.1 FT

Z-Axis Magnetometer (OER)

-0.7 0.7





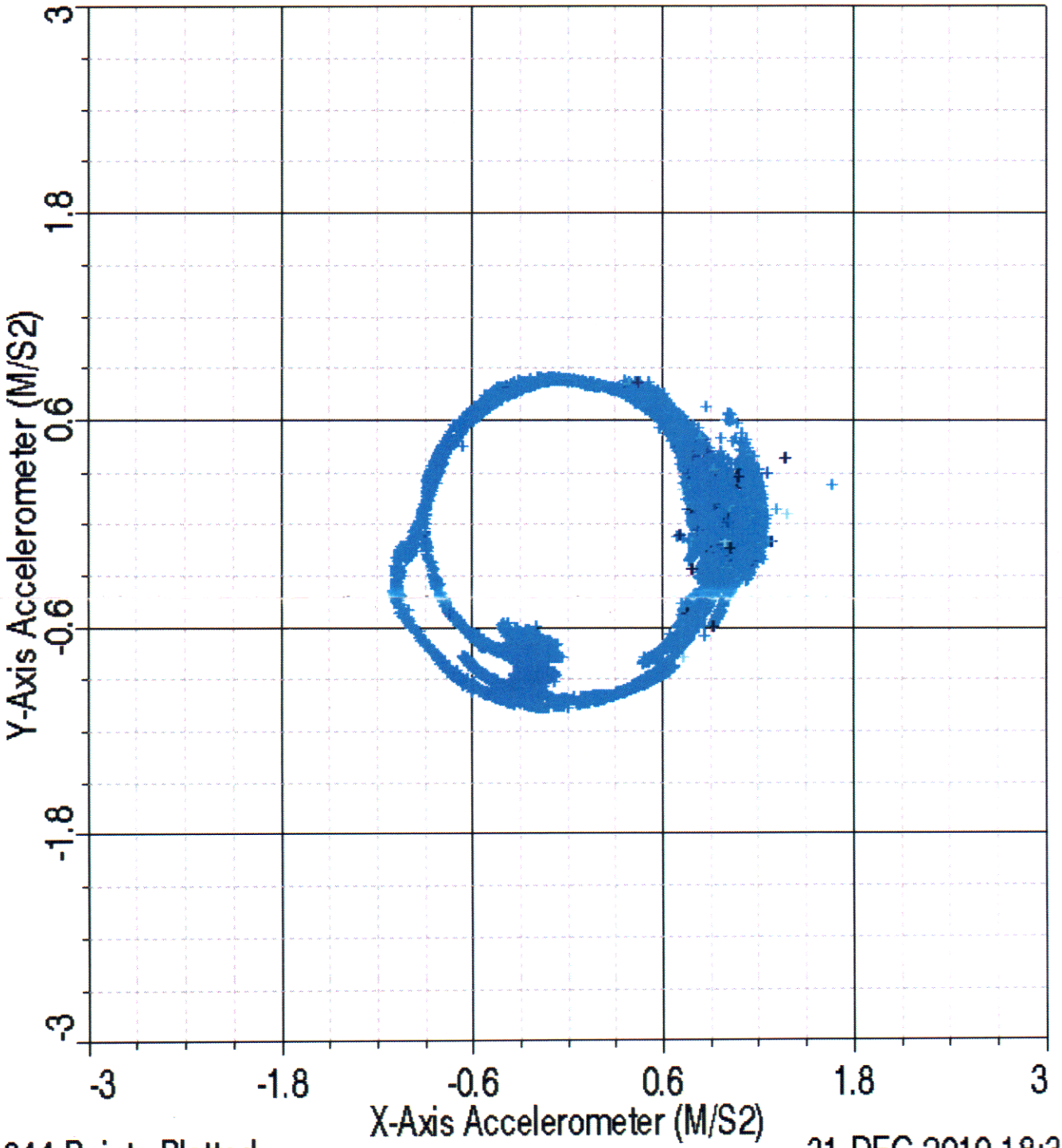
21286 Points Plotted

31-DEC-2010 18:34

Z-Axis Accelerometer (M/S2)

Index: 11144.0 - 8476.1 FT

9. 11.



21344 Points Plotted

31-DEC-2010 18:34

Company: OXY US LA BASIN

Schlumberger

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

FORMATION MICRO IMAGER
GAMMA RAY TIE IN