

Schlumberger

Company: Colorado Interstate Gas

Well: Totem #7

Field: Totem

County: Adams

State: Colorado

Isolation Scanner

USIT

County: Adams
Field: Totem
Location: Sec 8, T 2S, R 68W
Well: Totem #7
Company: Colorado Interstate Gas

LOCATION			
Sec 8, T 2S, R 68W		Elev.:	K.B. 5196.75 ft
			G.L. 5182.00 ft
			D.F. 5195.75 ft
Permanent Datum:	Ground Level	Elev.: 5182.00 ft	
Log Measured From:	Kelly Bushing	14.75 ft above Perm. Datum	
Drilling Measured From:	Kelly Bushing		
API Serial No.		Section	Township Range

			Run 1	Run 2	Run
PVT DATA					
Oil Density					
Water Salinity					
Gas Gravity					
Bo					
Bw					
1/Bg					
Bubble Point Pressure					
Bubble Point Temperature					
Solution GOR					
Maximum Deviation					
CEMENTING DATA					
Primary/Squeeze			Primary		
Casing String No					
Lead Cement Type			Fraccem		
Volume					
Density			13.5 lbm/gal		
Water Loss					
Additives					
Tail Cement Type			Premium		
Volume					
Density			15.8 lbm/gal		
Water Loss					
Additives					
Expected Cement Top			50 ft		

Logging Date	13-Aug-2010			
--------------	-------------	--	--	--

Run Number	1			
------------	---	--	--	--

Depth Driller	9625 ft			
---------------	---------	--	--	--

Schlumberger Depth	4370 ft			
--------------------	---------	--	--	--

Bottom Log Interval	4370 ft			
---------------------	---------	--	--	--

Top Log Interval	50 ft			
------------------	-------	--	--	--

Casing Fluid Type	Water / Brine			
-------------------	---------------	--	--	--

Salinity				
----------	--	--	--	--

Density	8.4 lbm/gal			
---------	-------------	--	--	--

Fluid Level	0 ft			
-------------	------	--	--	--

BIT/CASING/TUBING STRING				
--------------------------	--	--	--	--

Bit Size	8.750 in			
----------	----------	--	--	--

From				
------	--	--	--	--

To				
----	--	--	--	--

Casing/Tubing Size	7.000 in			
--------------------	----------	--	--	--

Weight	26 lbm/ft			
--------	-----------	--	--	--

Grade				
-------	--	--	--	--

From				
------	--	--	--	--

To				
----	--	--	--	--

Maximum Recorded Temperatures				
-------------------------------	--	--	--	--

Logger On Bottom	13-Aug-2010		9:30	
------------------	-------------	--	------	--

Unit Number	7006	Fort Morgan, Co		
-------------	------	-----------------	--	--

Recorded By	Jared R. Hoskins			
-------------	------------------	--	--	--

Witnessed By	Jim Vedsted			
--------------	-------------	--	--	--

Logging Date				
--------------	--	--	--	--

Run Number				
------------	--	--	--	--

Depth Driller				
---------------	--	--	--	--

Schlumberger Depth				
--------------------	--	--	--	--

Bottom Log Interval				
---------------------	--	--	--	--

Top Log Interval				
------------------	--	--	--	--

Casing Fluid Type				
-------------------	--	--	--	--

Salinity				
----------	--	--	--	--

Density				
---------	--	--	--	--

Fluid Level				
-------------	--	--	--	--

BIT/CASING/TUBING STRING				
--------------------------	--	--	--	--

Bit Size				
----------	--	--	--	--

From				
------	--	--	--	--

To				
----	--	--	--	--

Casing/Tubing Size				
--------------------	--	--	--	--

Weight				
--------	--	--	--	--

Grade				
-------	--	--	--	--

From				
------	--	--	--	--

To				
----	--	--	--	--

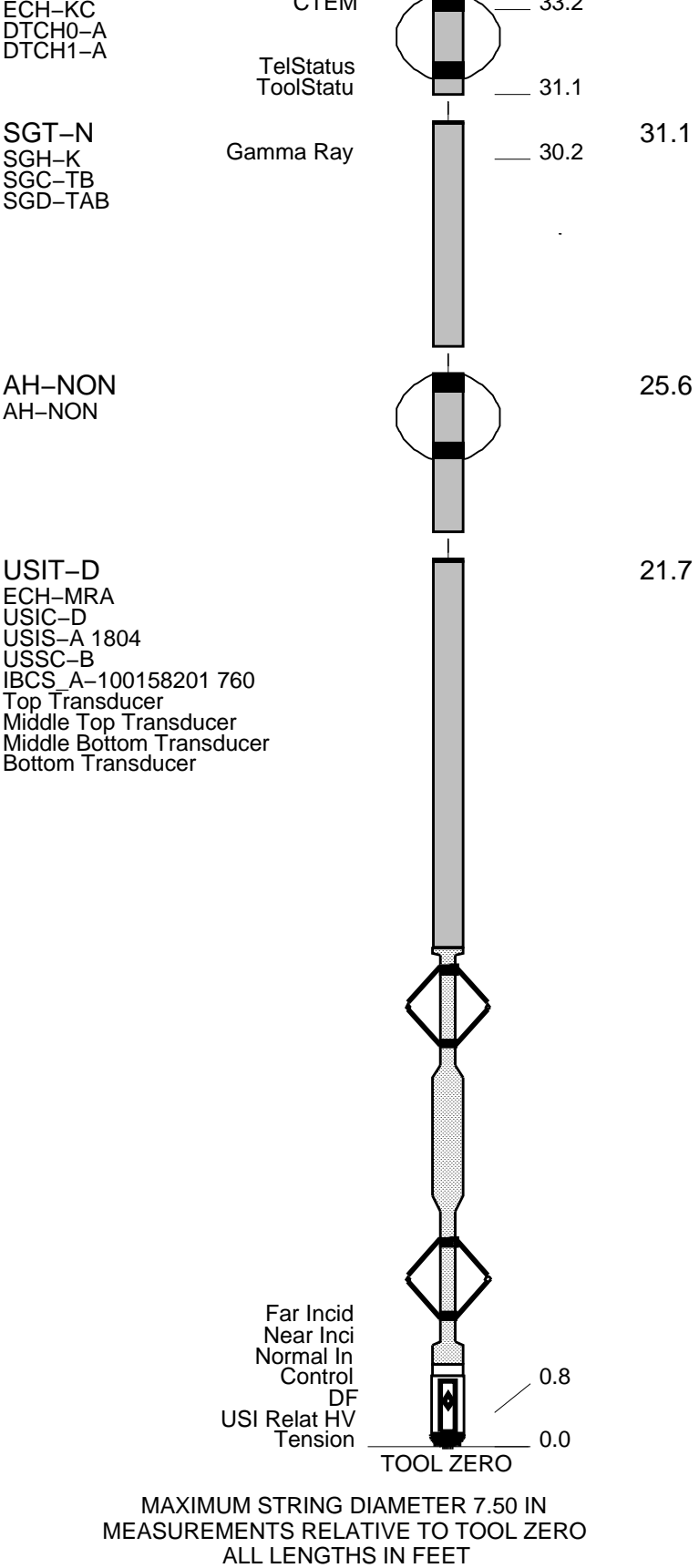
Maximum Recorded Temperatures				
-------------------------------	--	--	--	--

Logger On Bottom				
------------------	--	--	--	--

Unit Number				
-------------	--	--	--	--

Recorded By				
-------------	--	--	--	--

Witnessed By				
--------------	--	--	--	--



Company: Colorado Interstate Gas

Well: Totem #7

Input DLIS Files

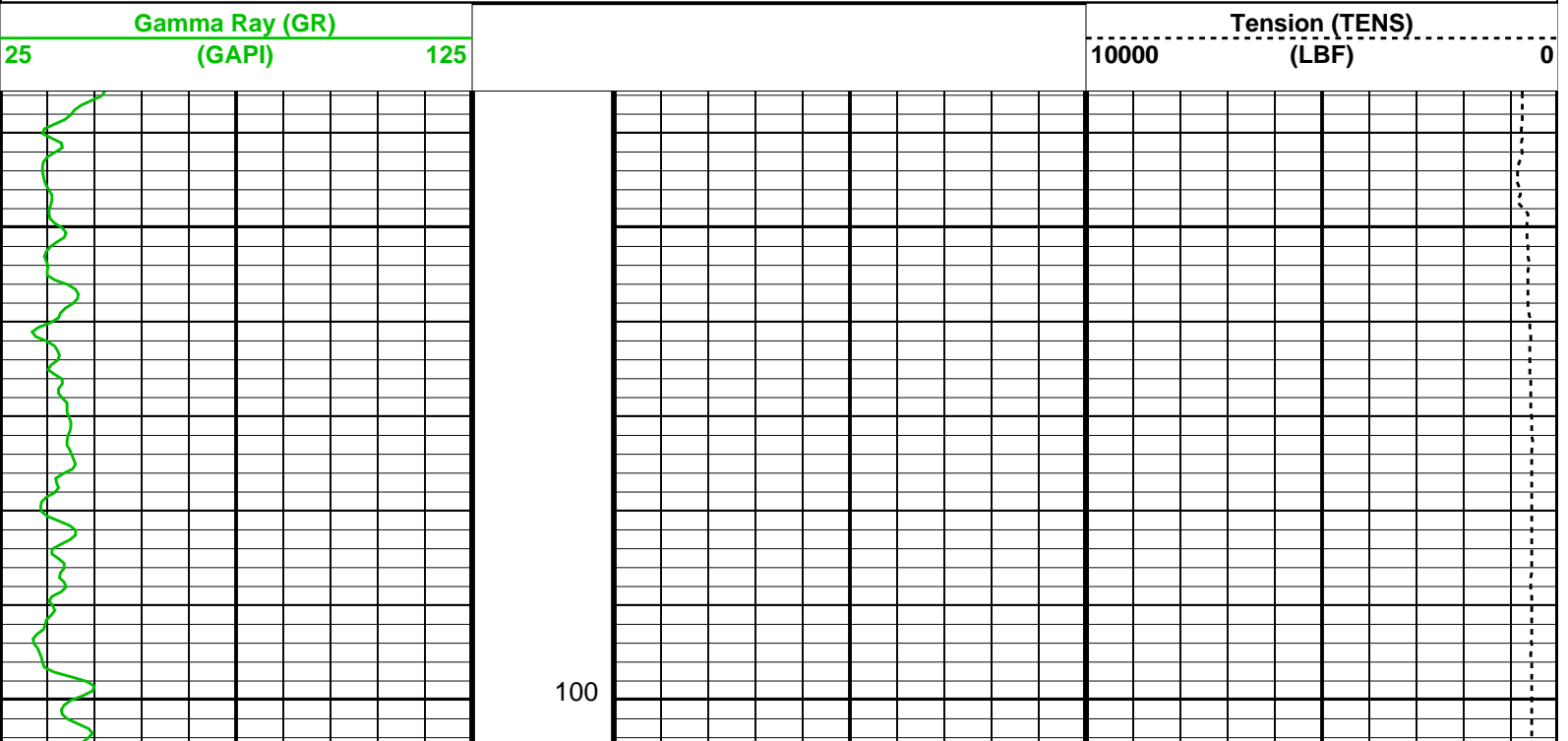
DEFAULT	USI_005PUP	FN:4	PRODUCER	13-Aug-2010 12:43	4370.0 FT	35.5 FT
---------	------------	------	----------	-------------------	-----------	---------

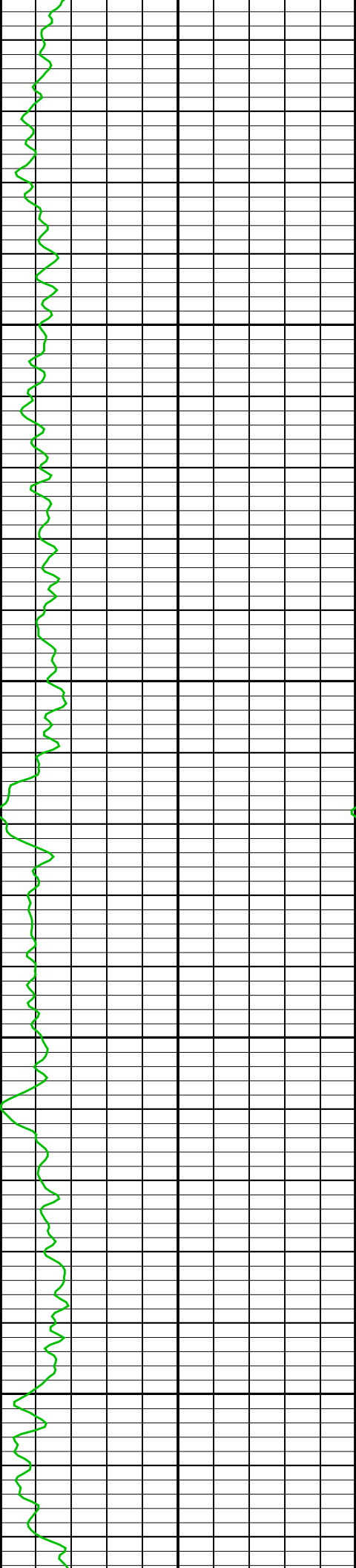
Output DLIS Files

DEFAULT	USI_005PUP	FN:3	PRODUCER	14-Aug-2010 16:33	4370.0 FT	35.5 FT
---------	------------	------	----------	-------------------	-----------	---------

OP System Version: 17C0-154

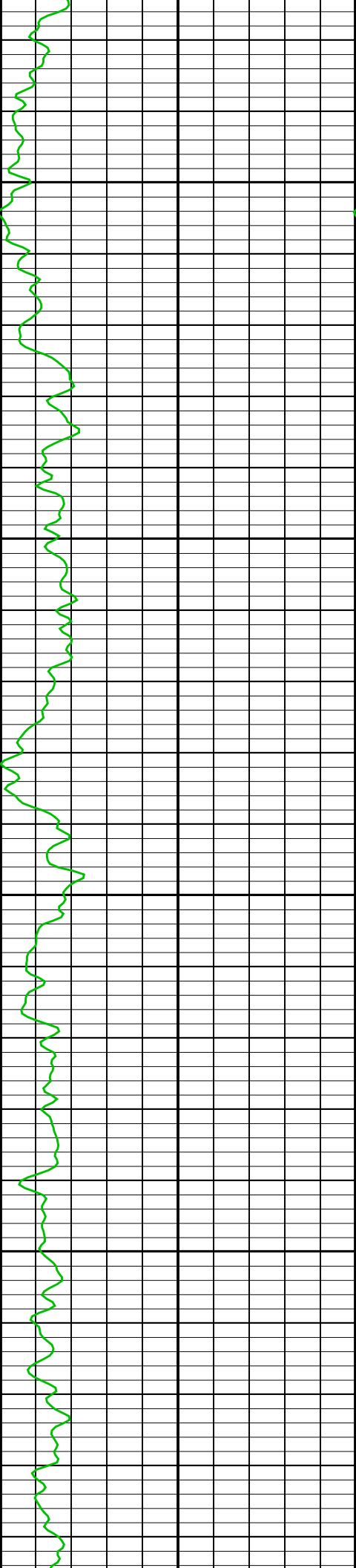
USIT-D	SRPC-3829-LSIM	SGT-N	SRPC-3829-LSIM
DTC-H	17C0-154		





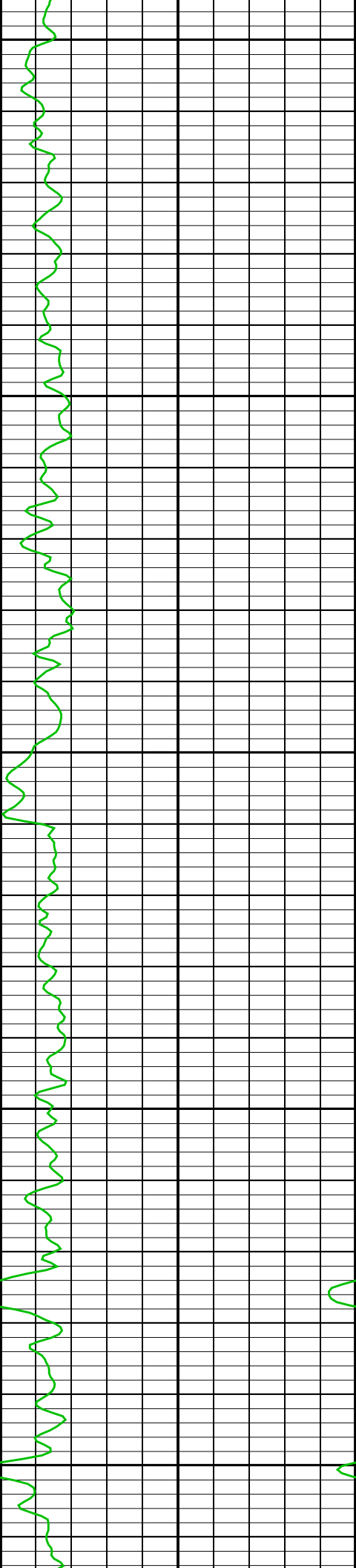
200

300



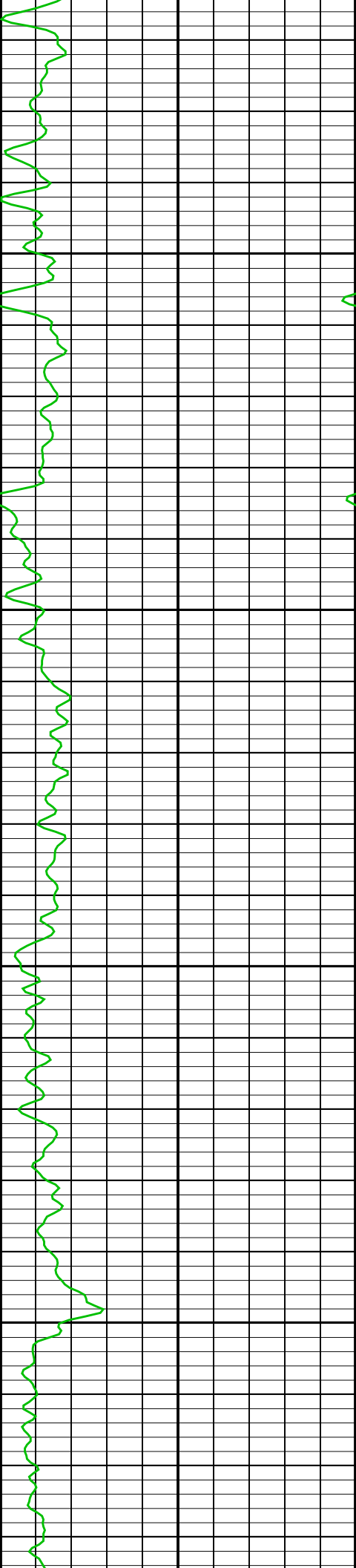
400

500



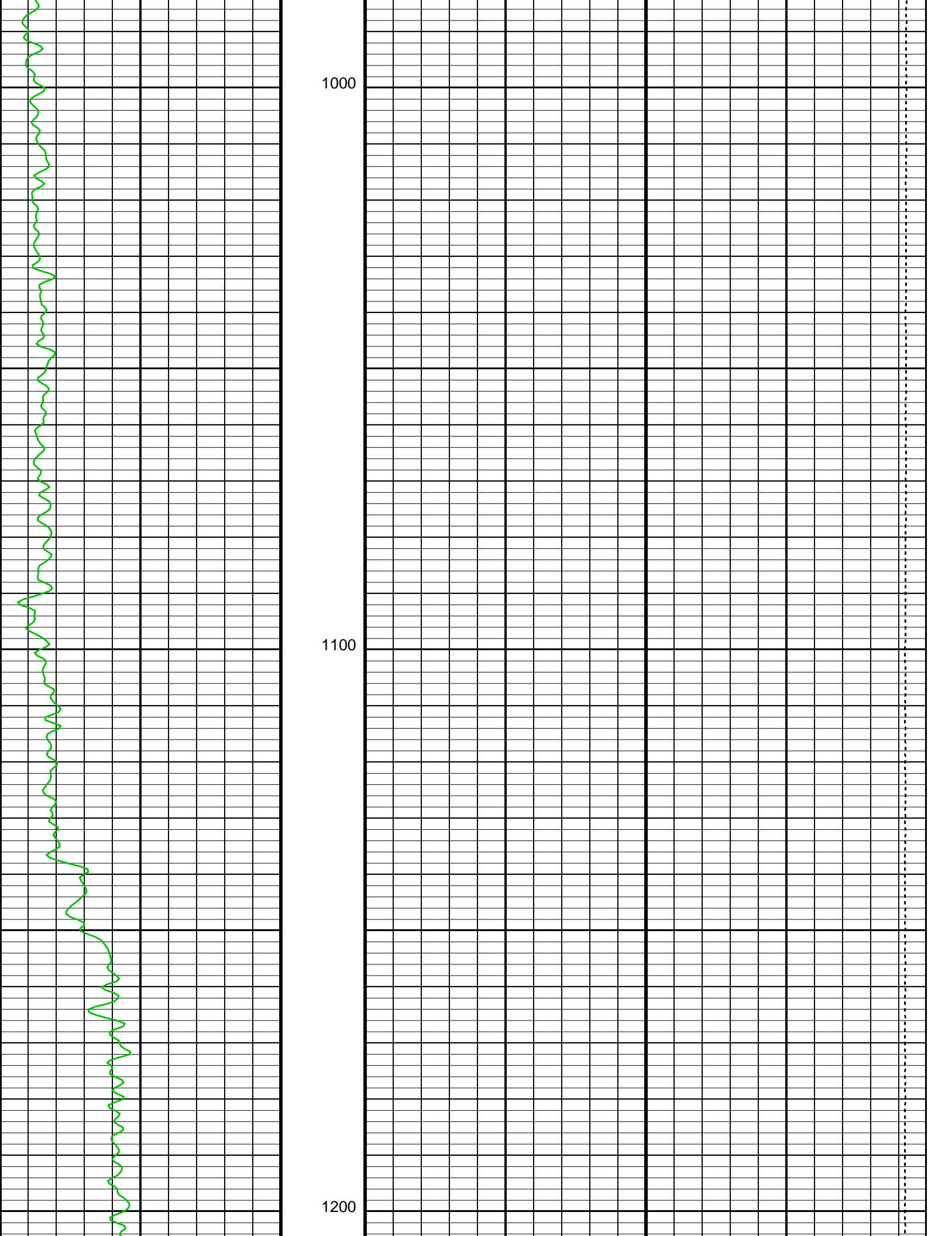
600

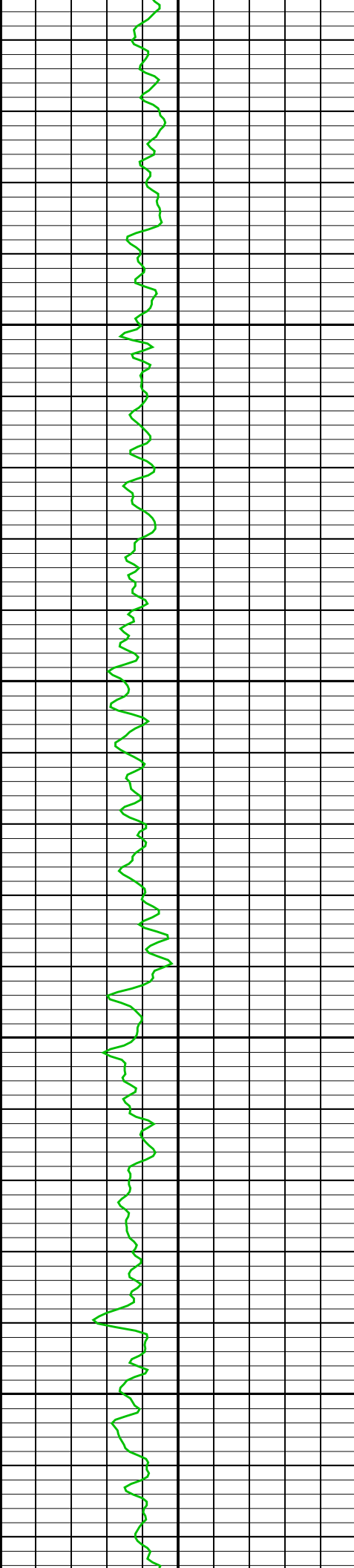
700



800

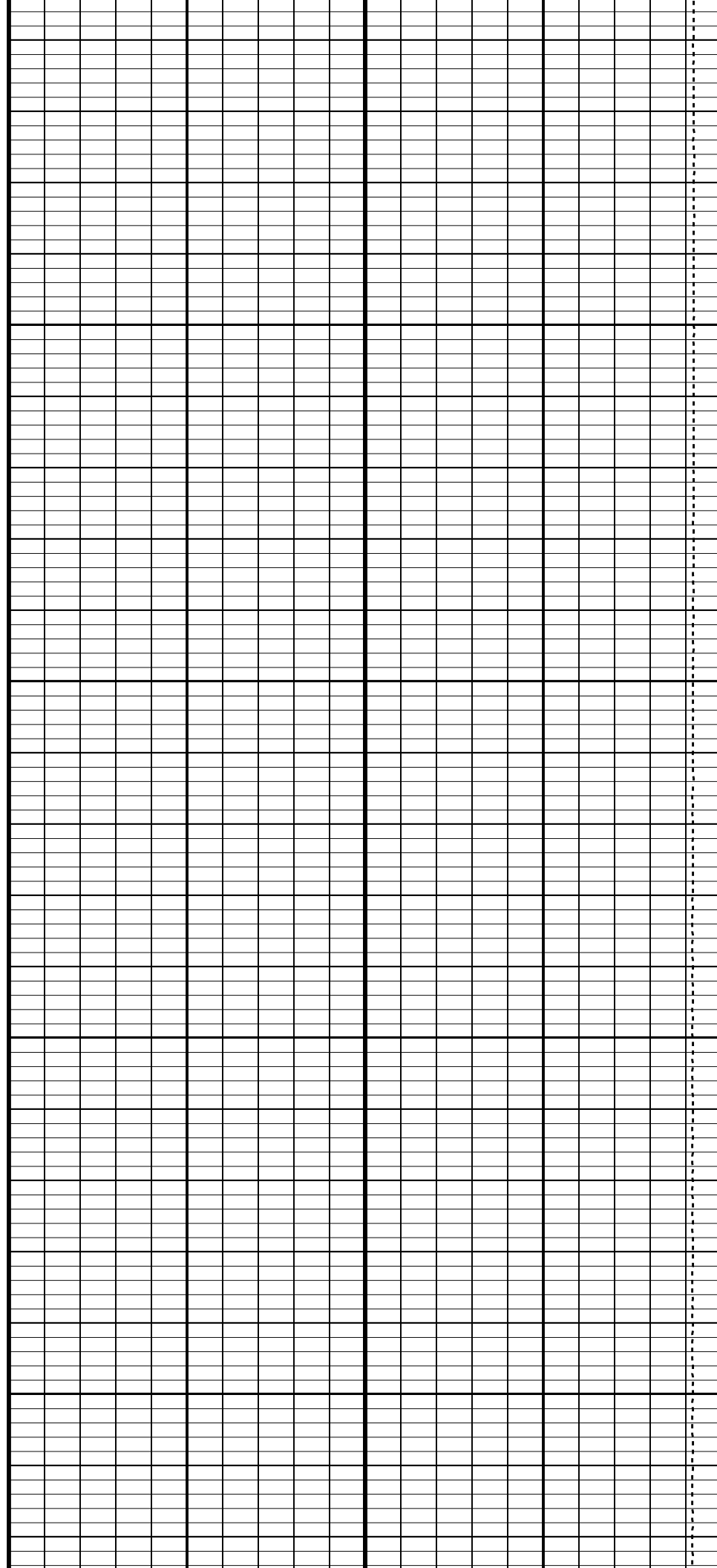
900

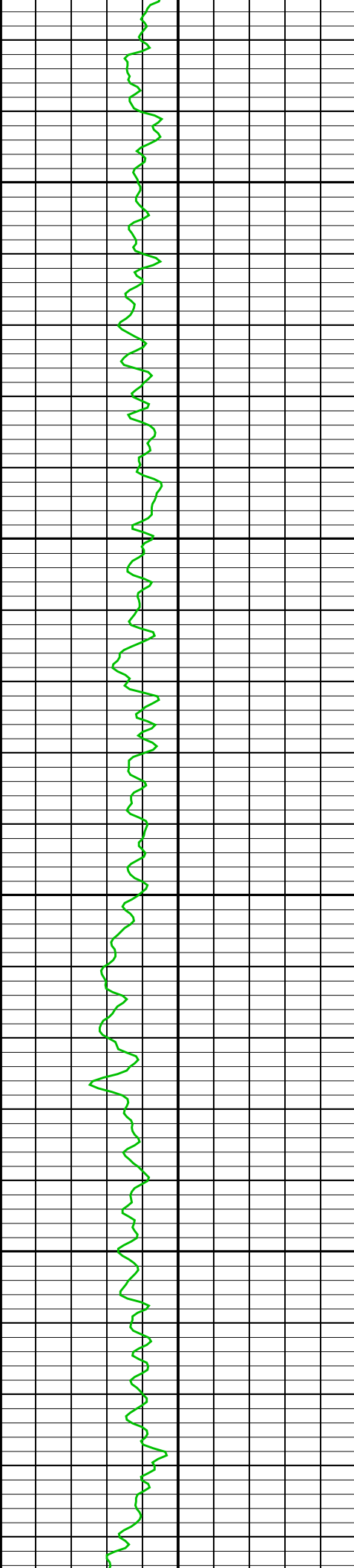




1300

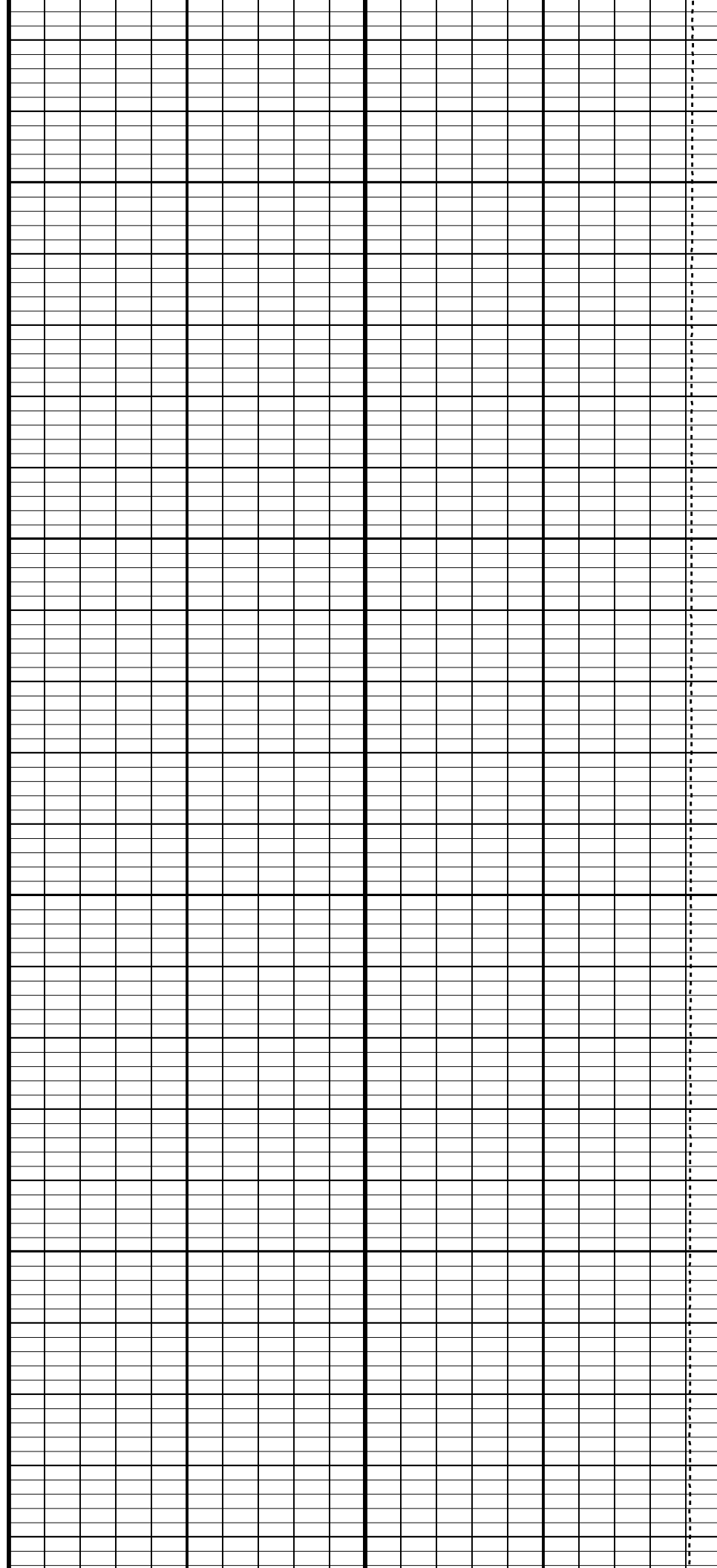
1400

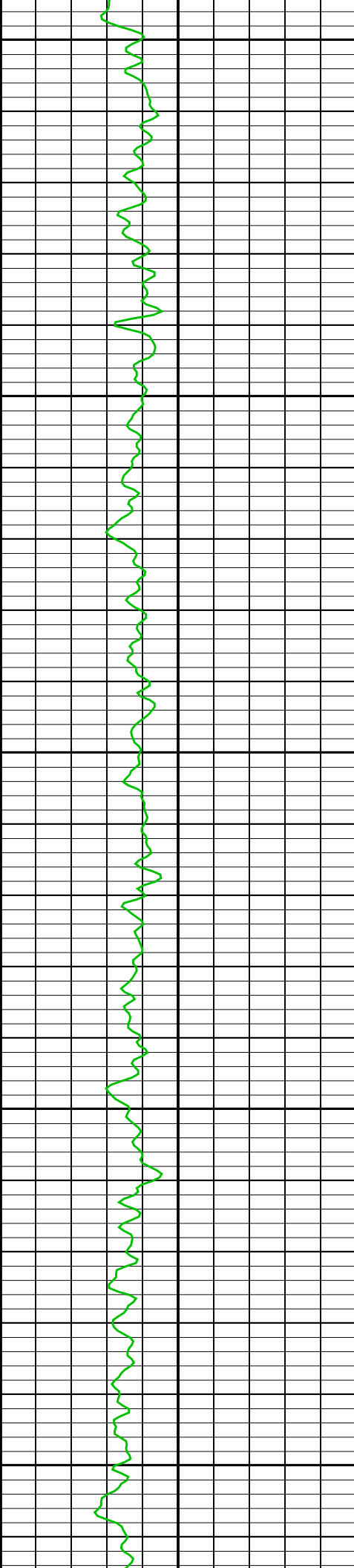




1500

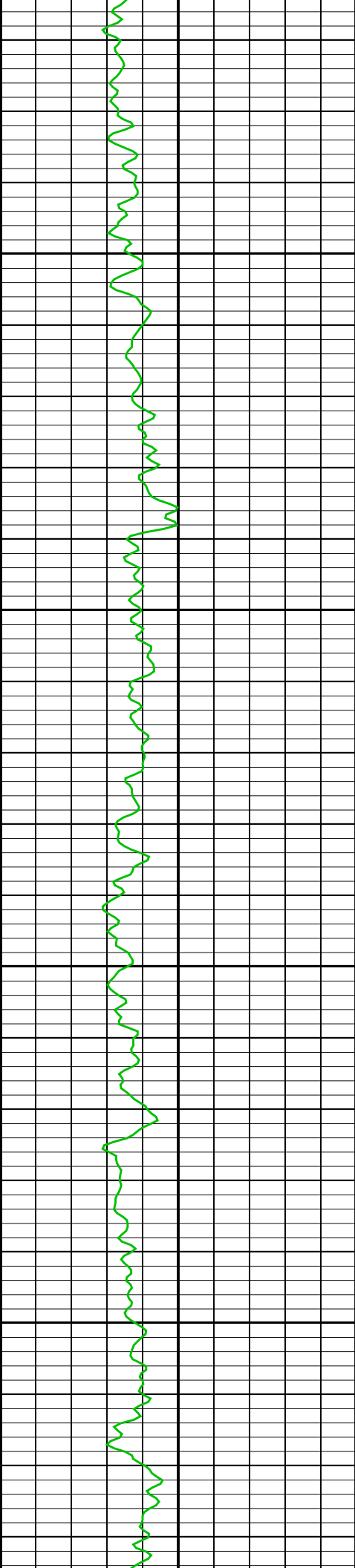
1600





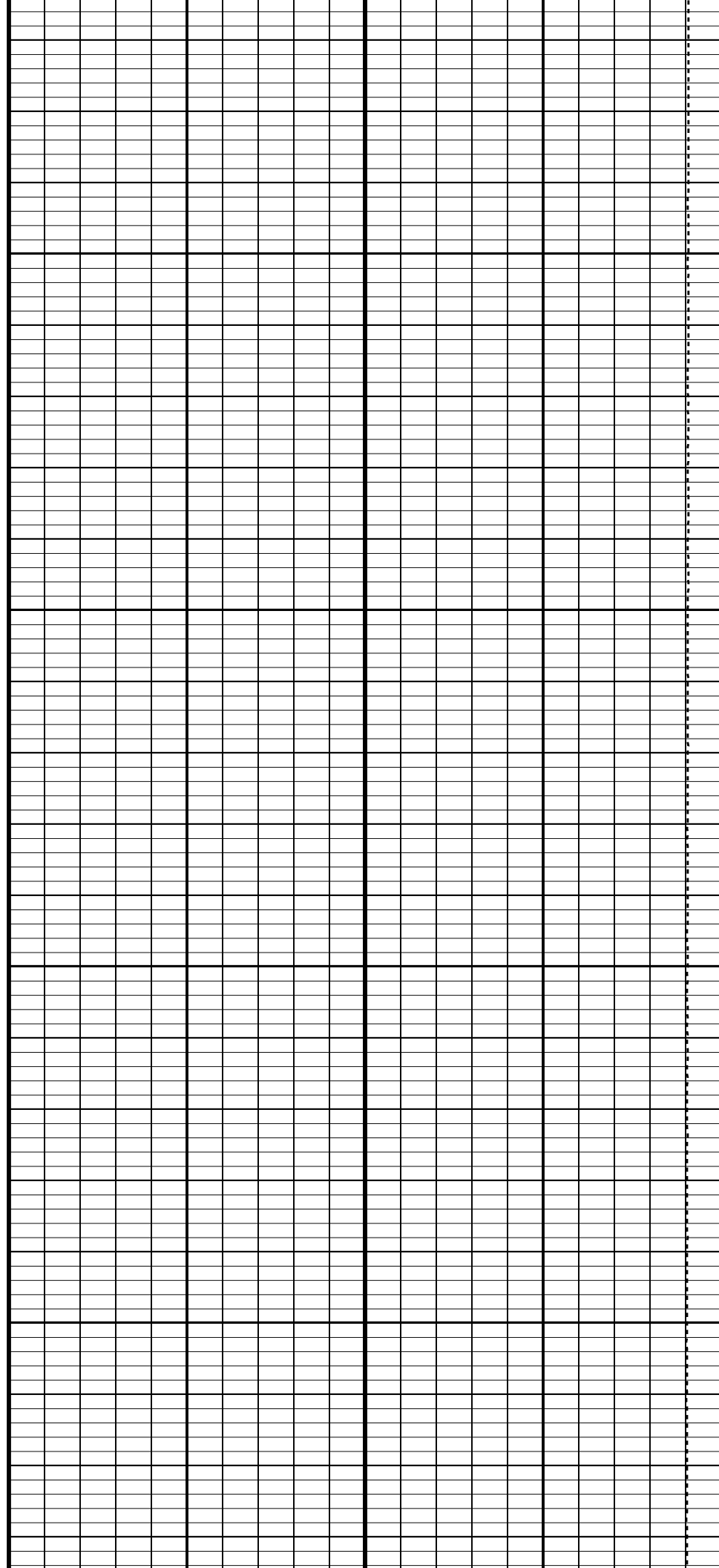
1700

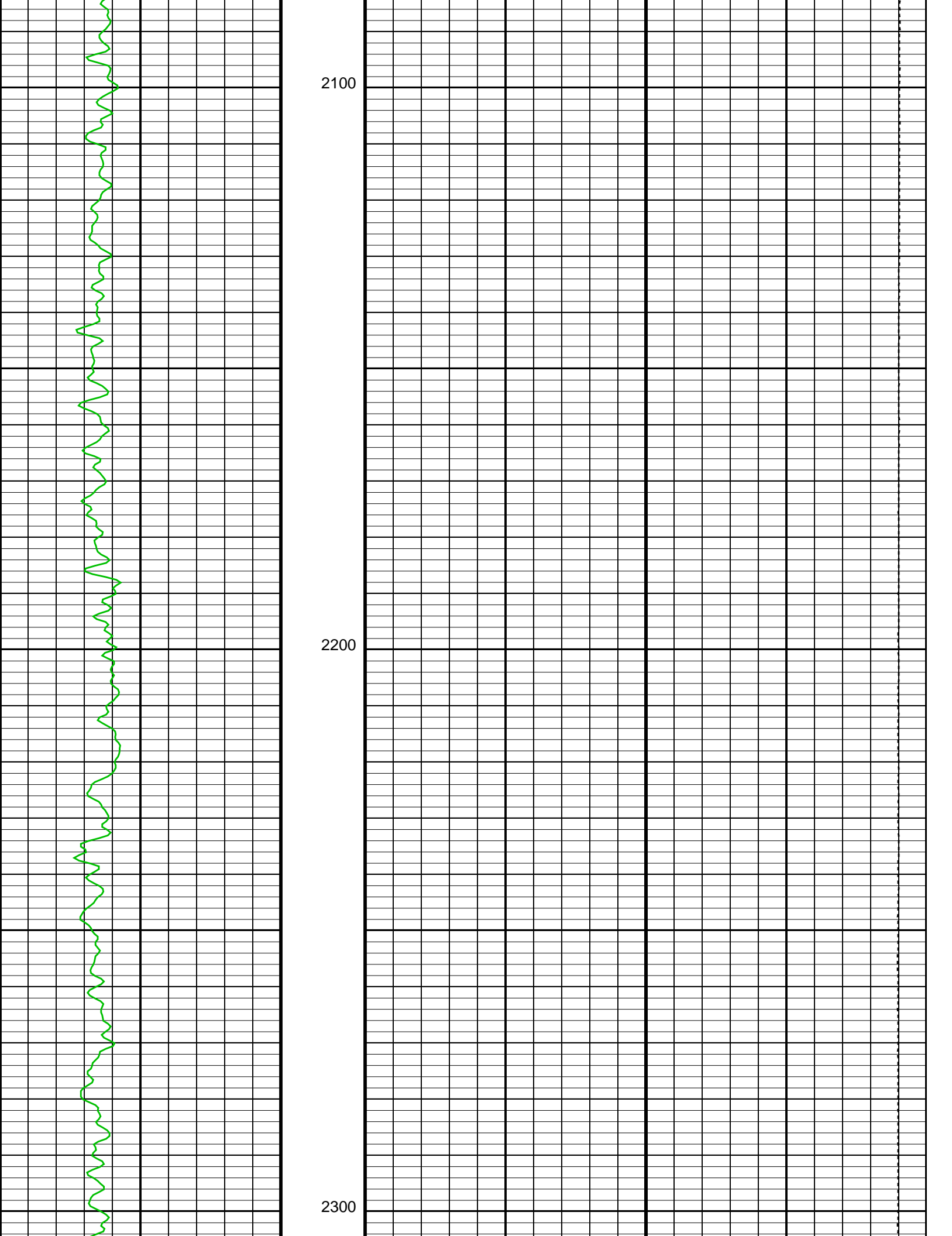
1800

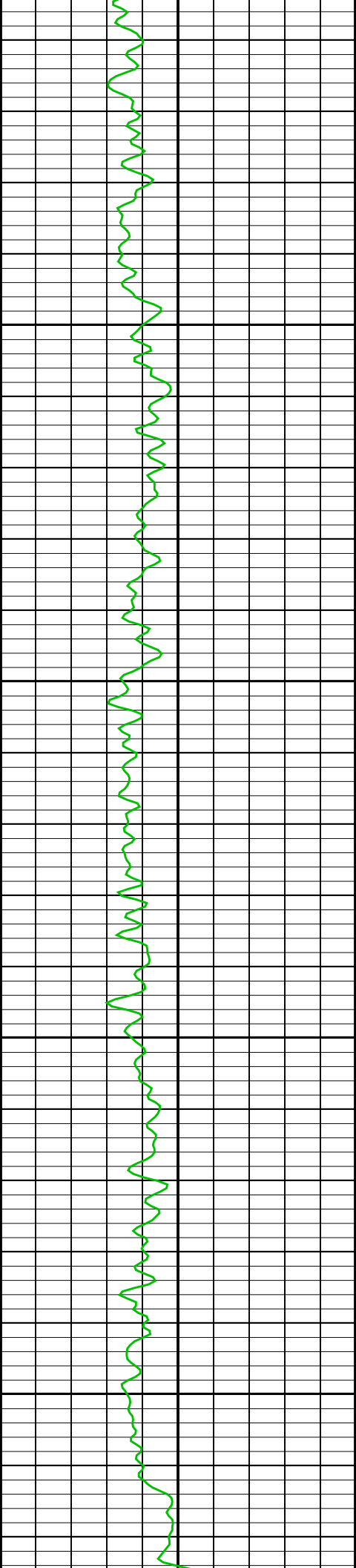


1900

2000

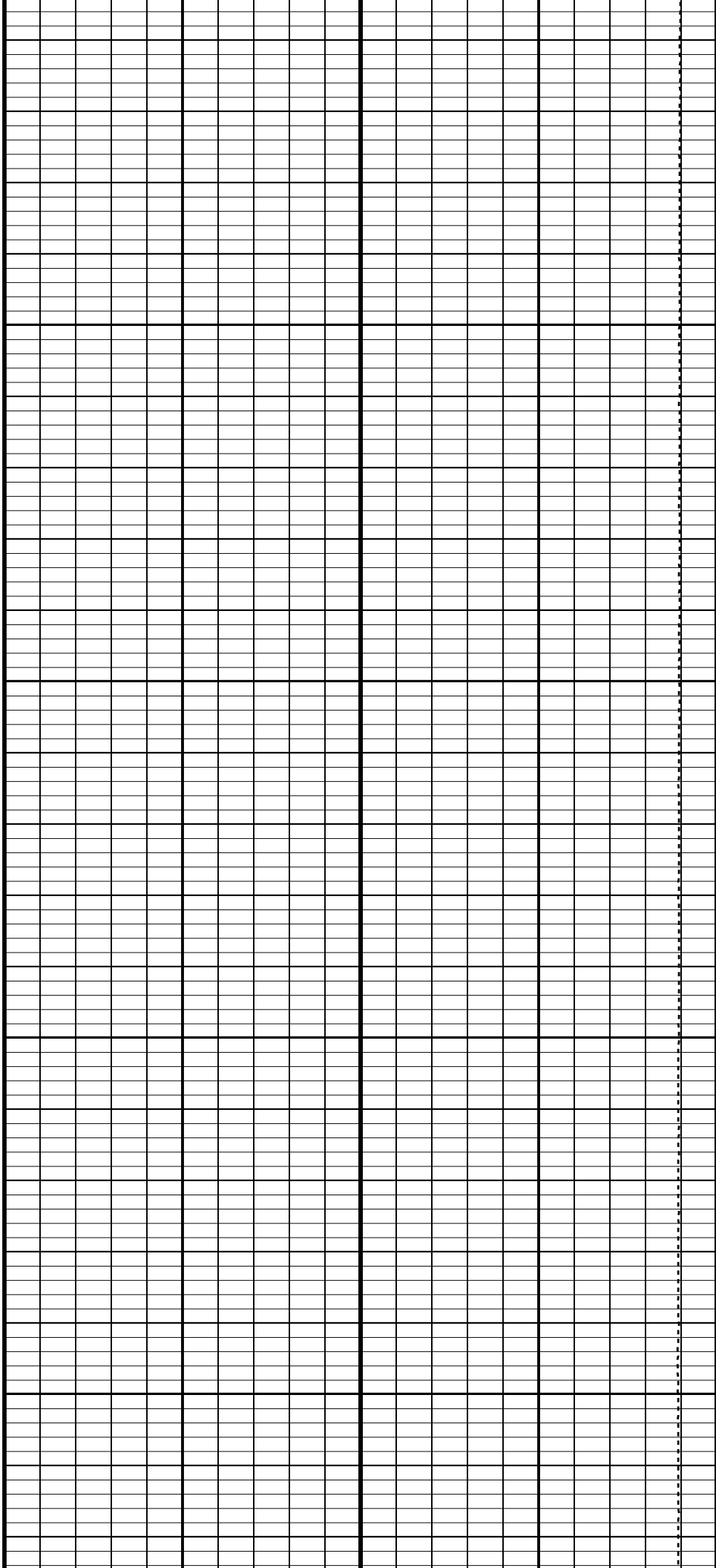


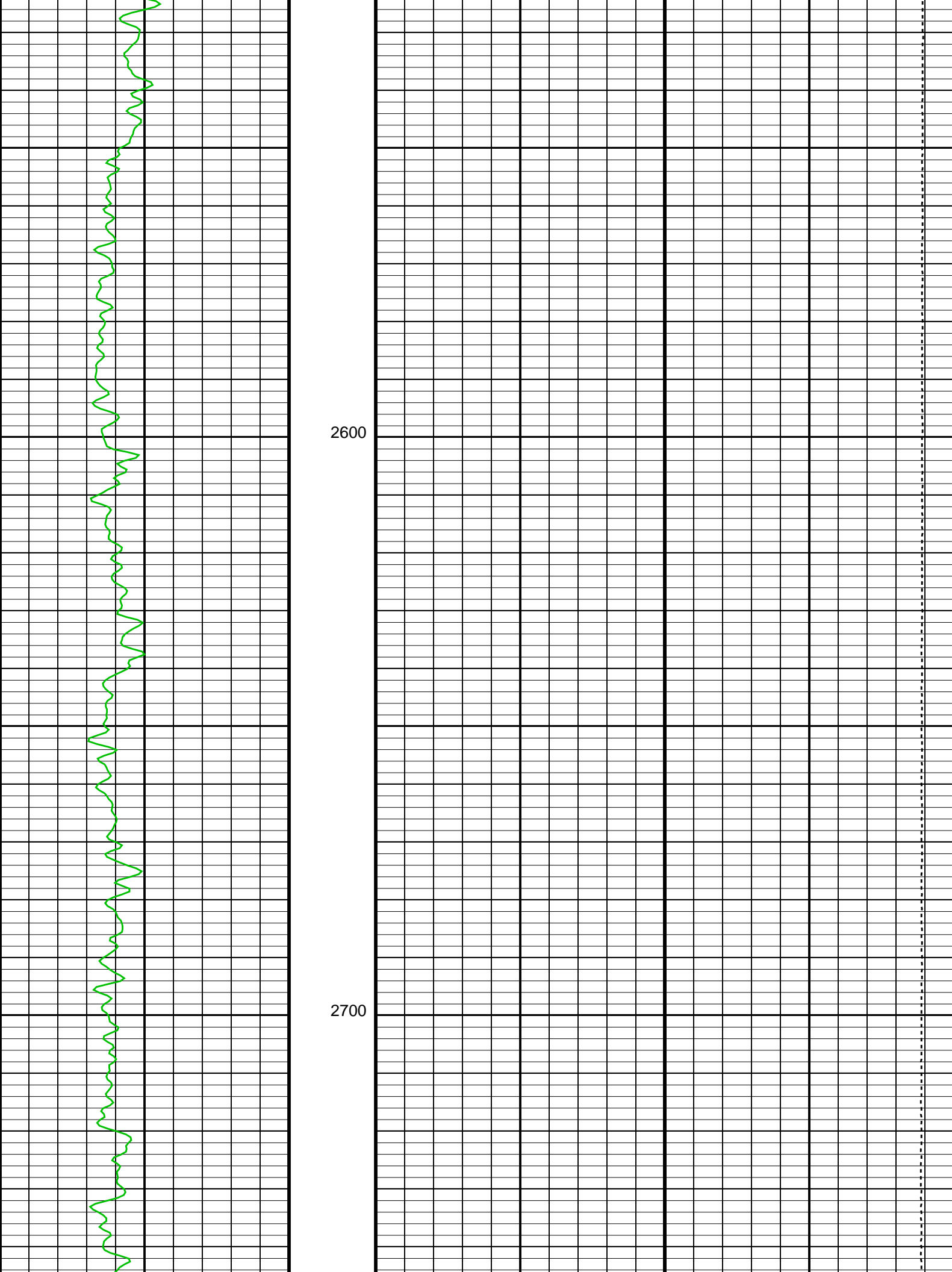


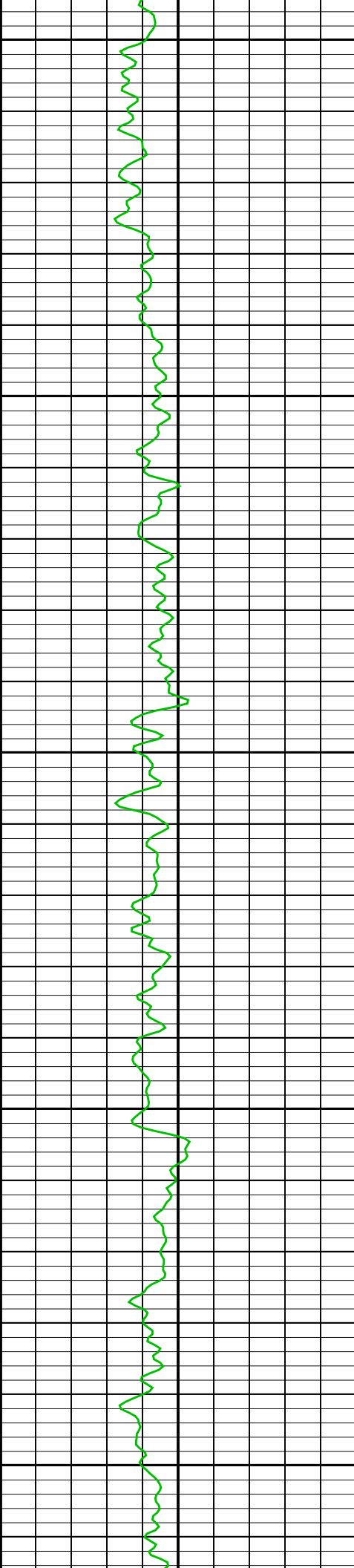


2400

2500

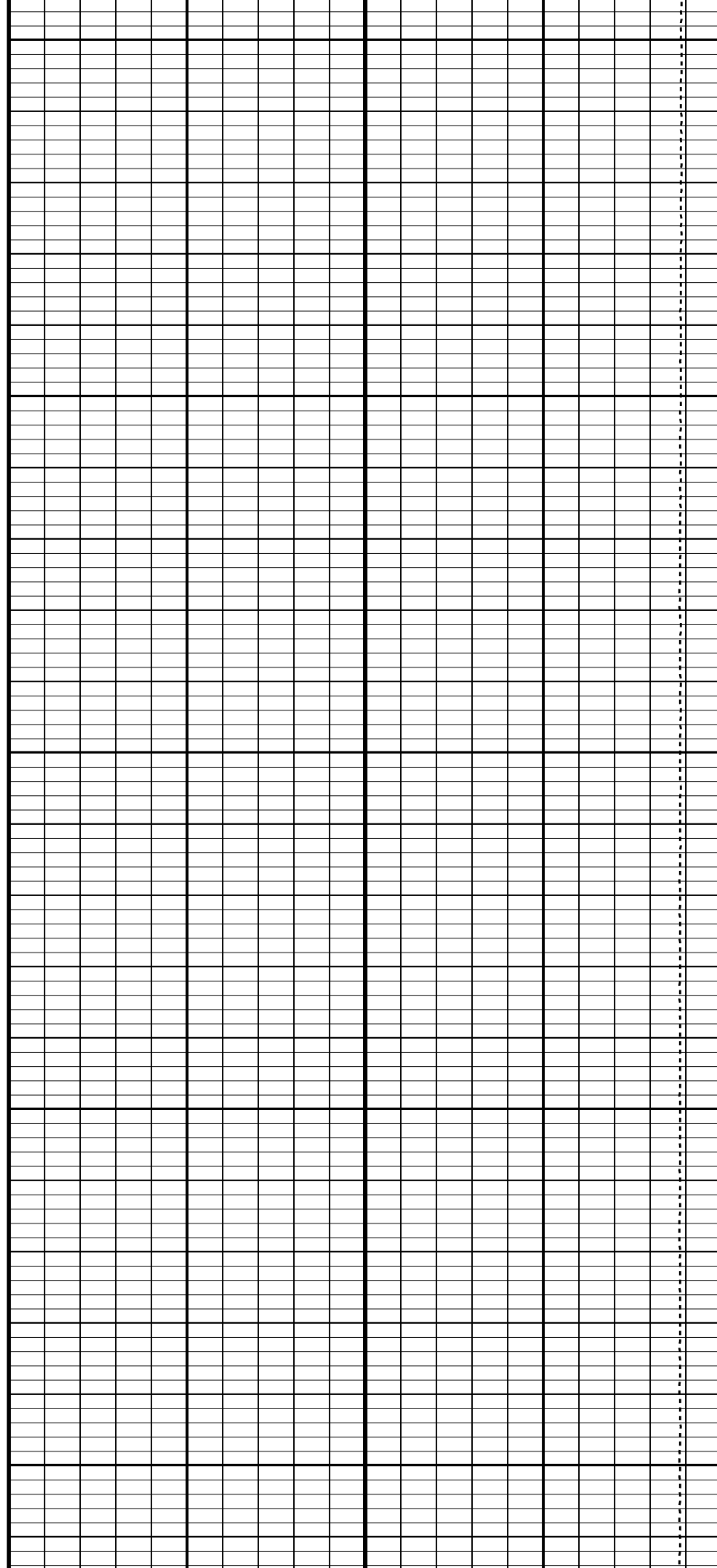


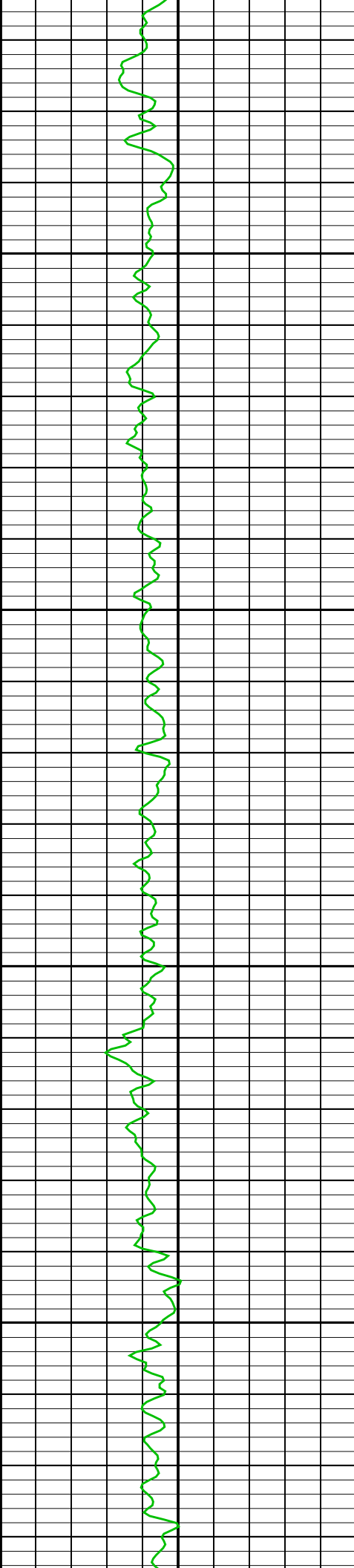




2800

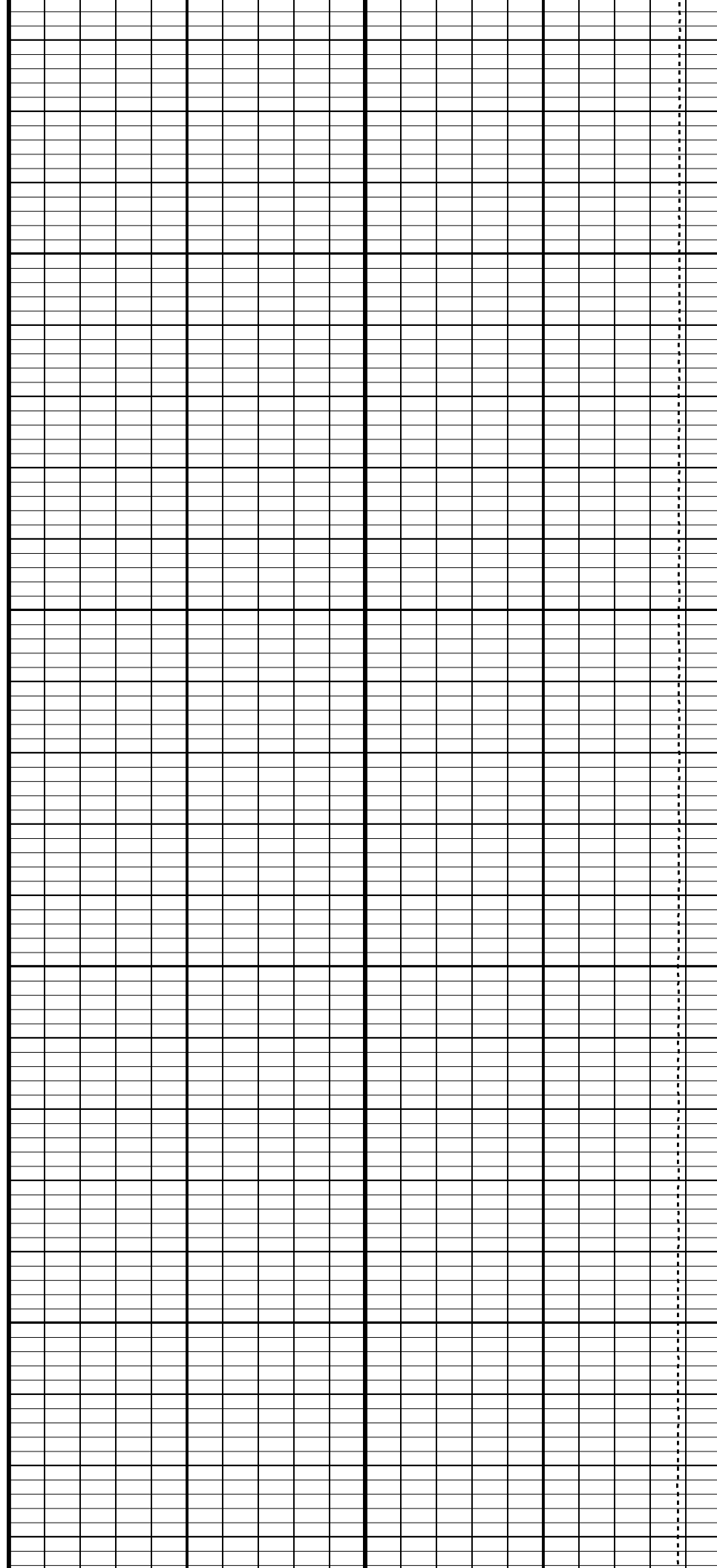
2900

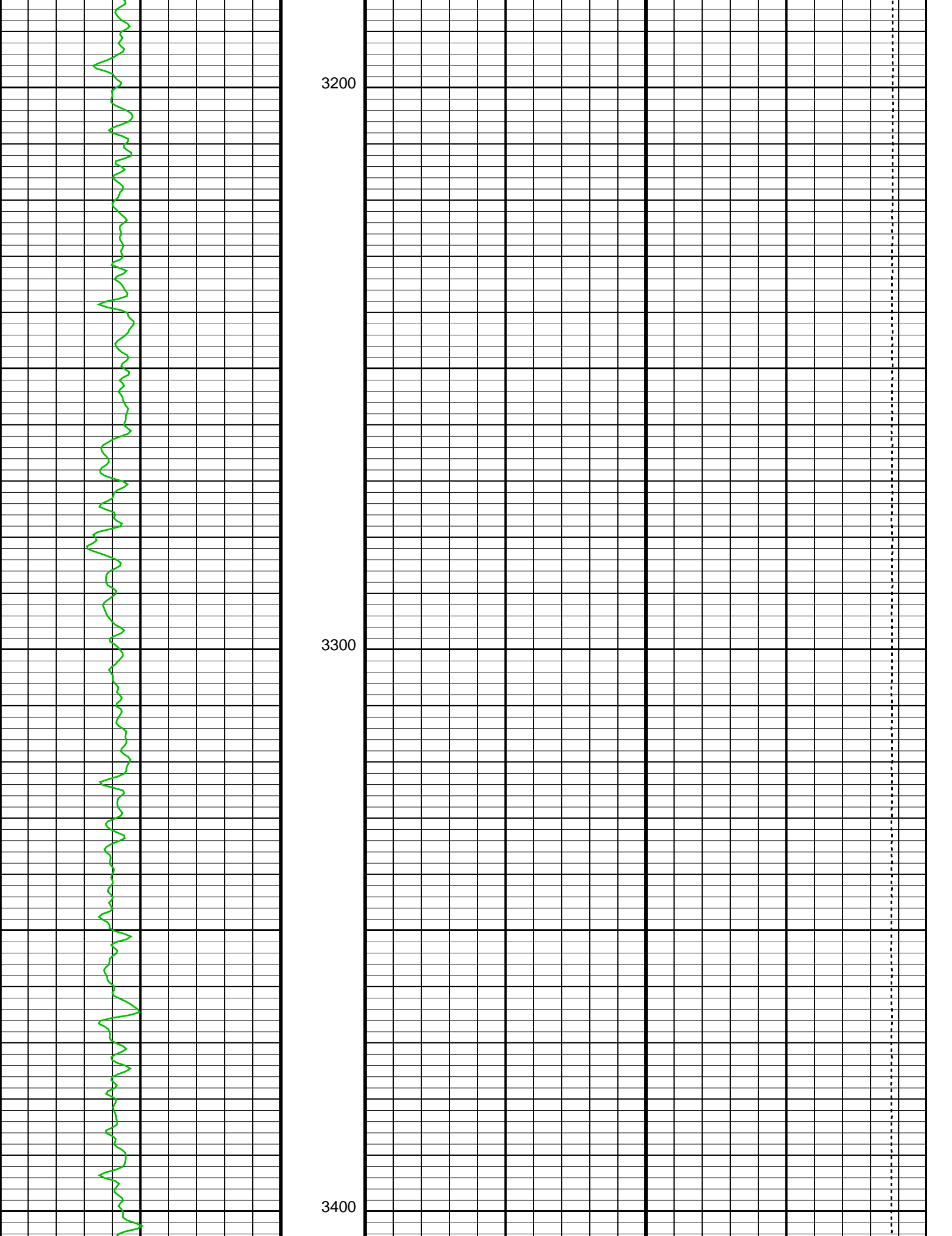


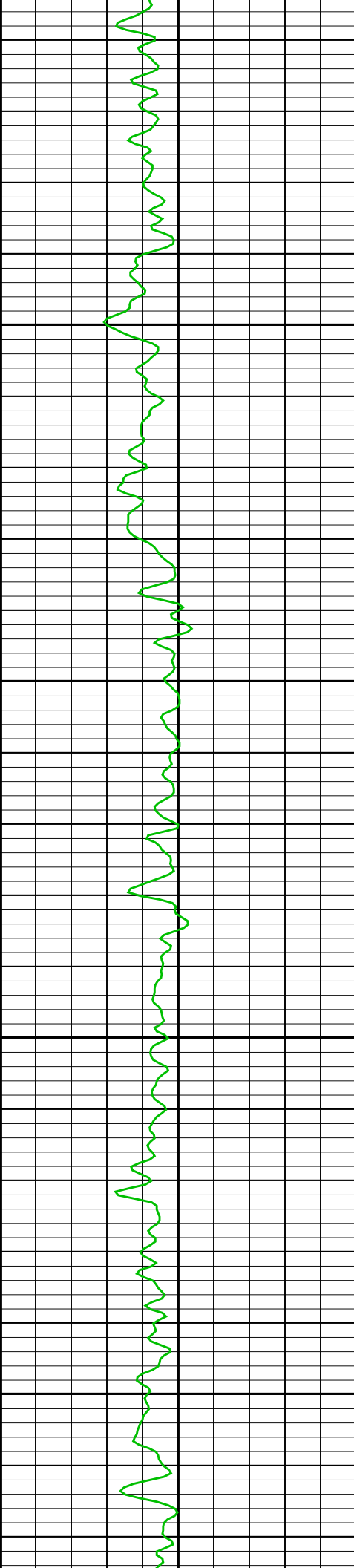


3000

3100

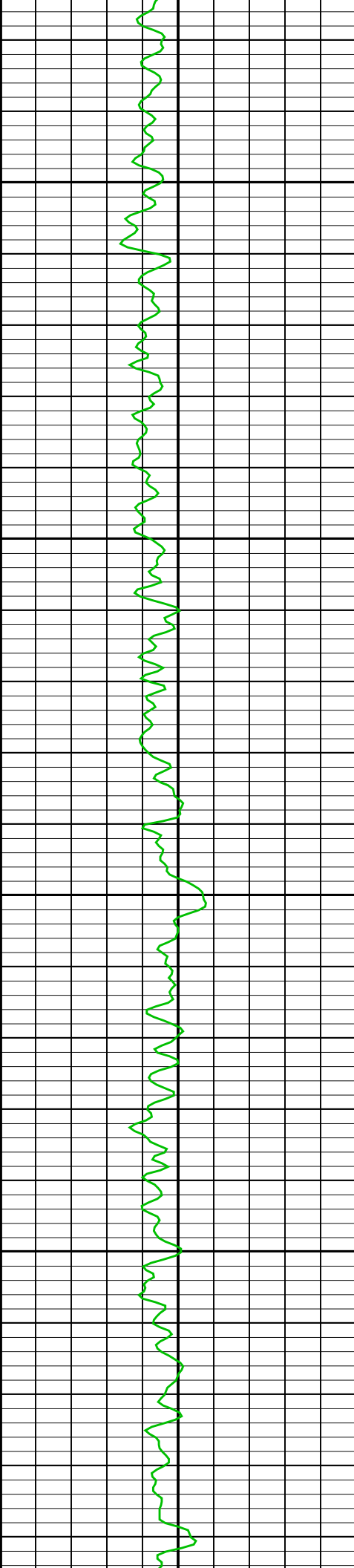






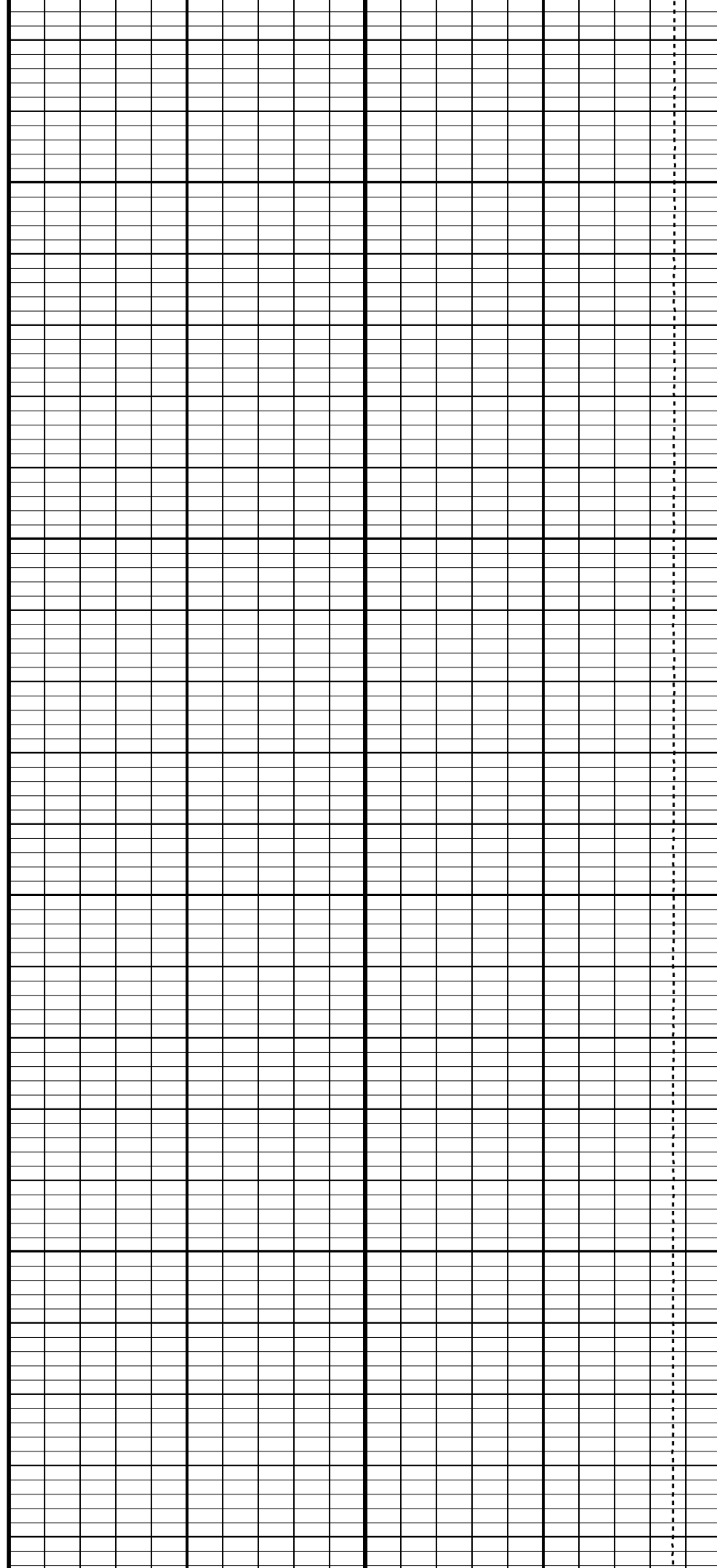
3500

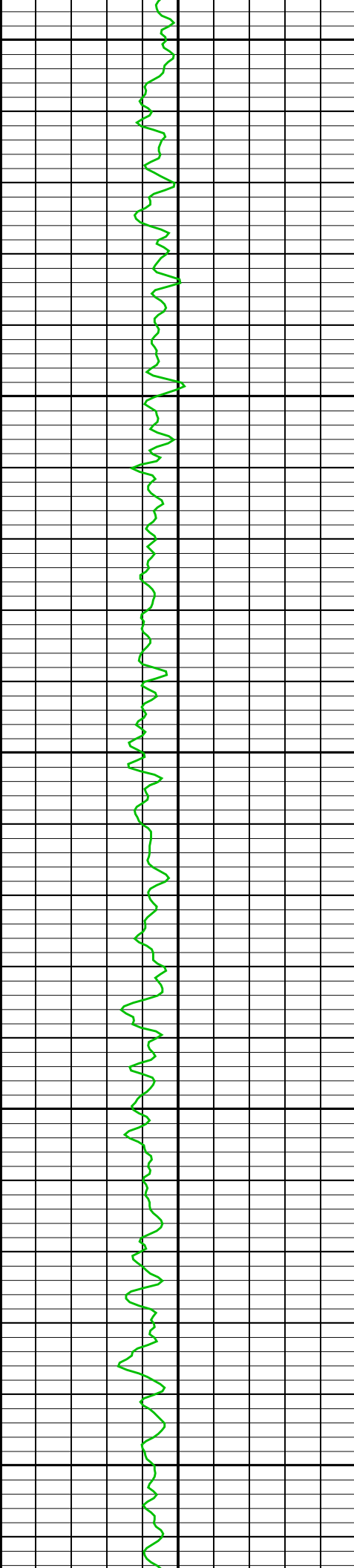
3600



3700

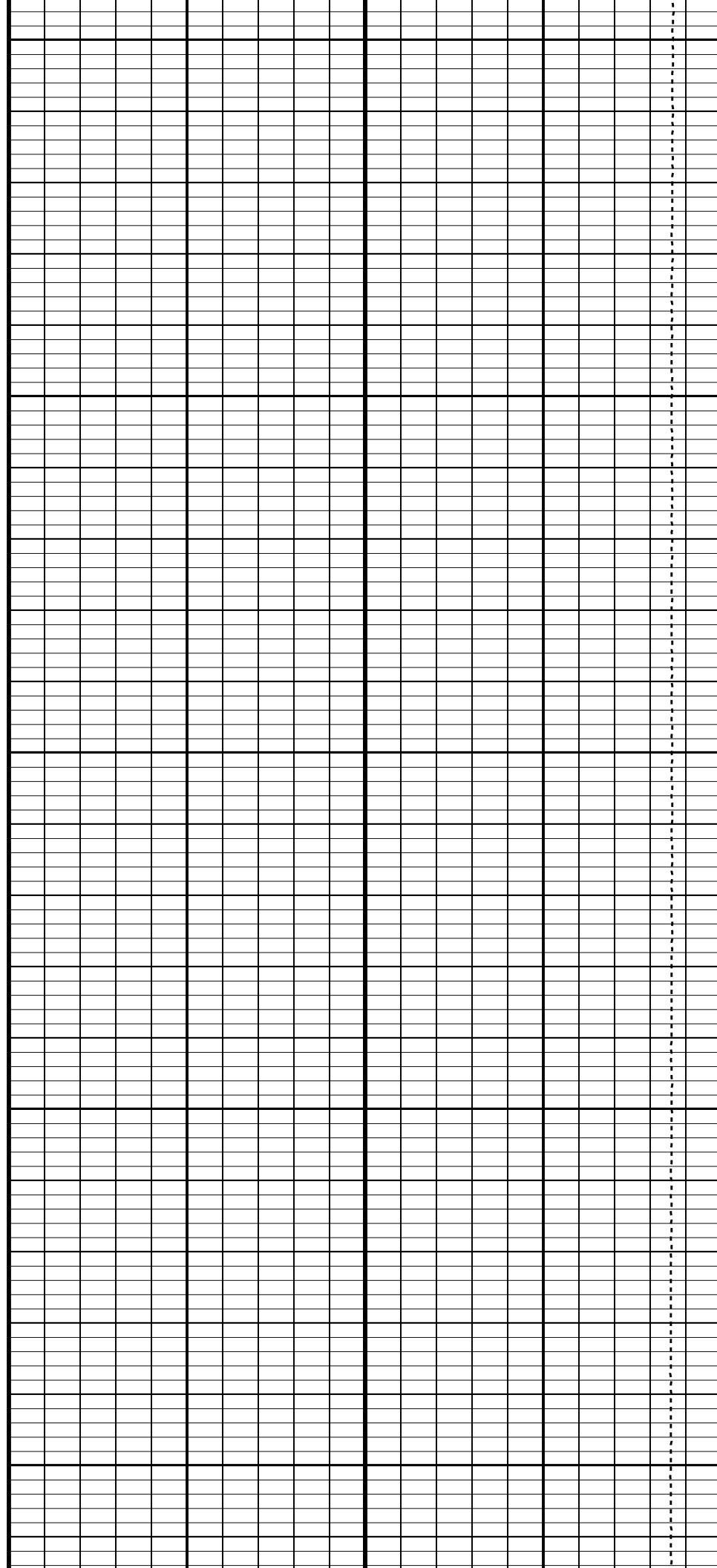
3800

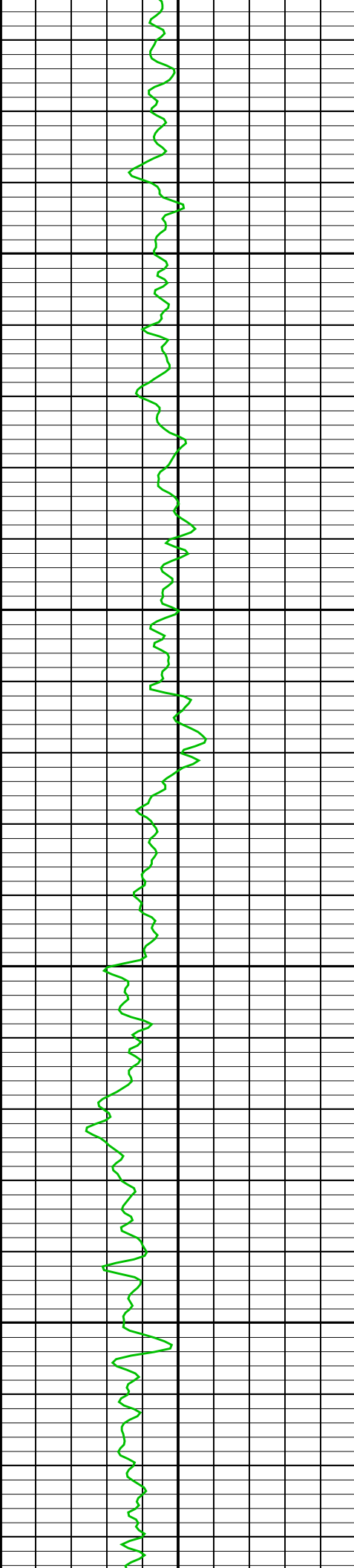




3900

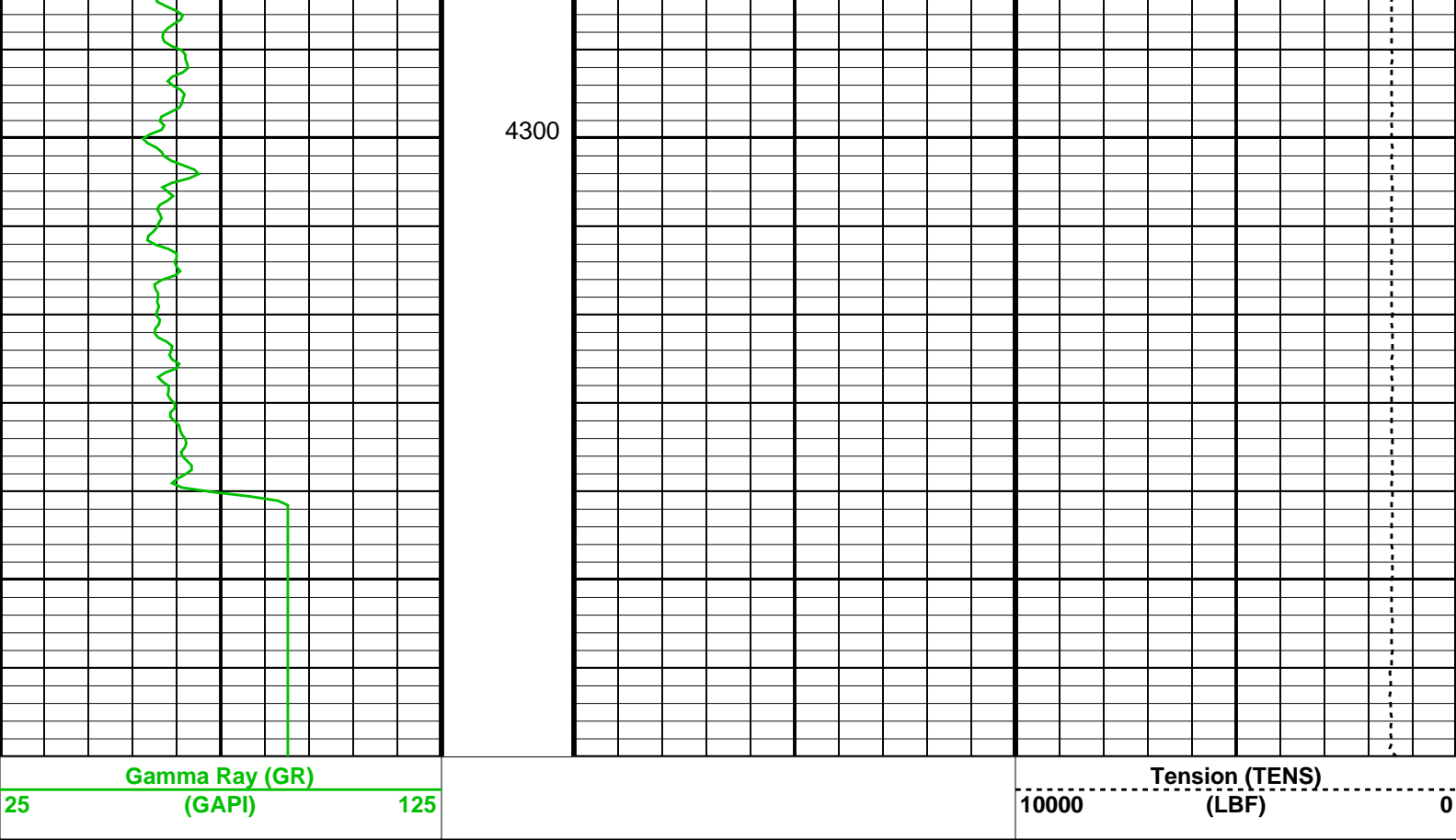
4000





4100

4200

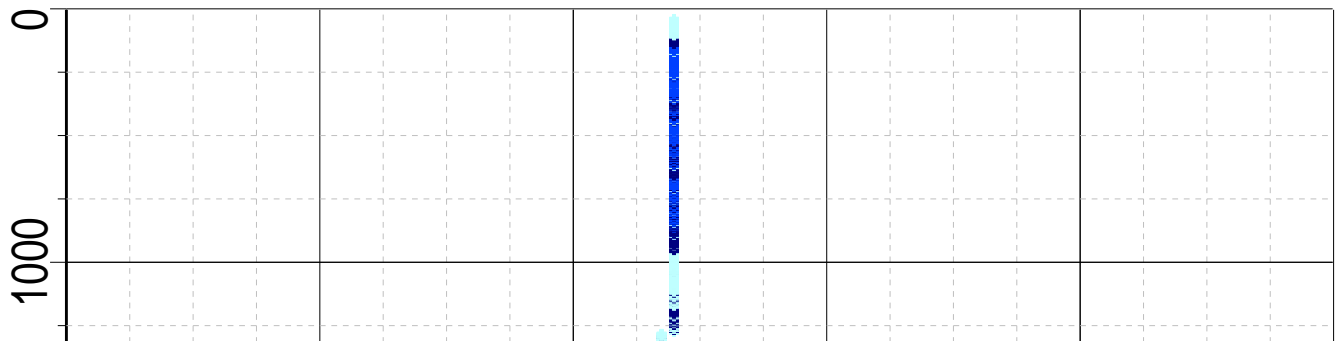


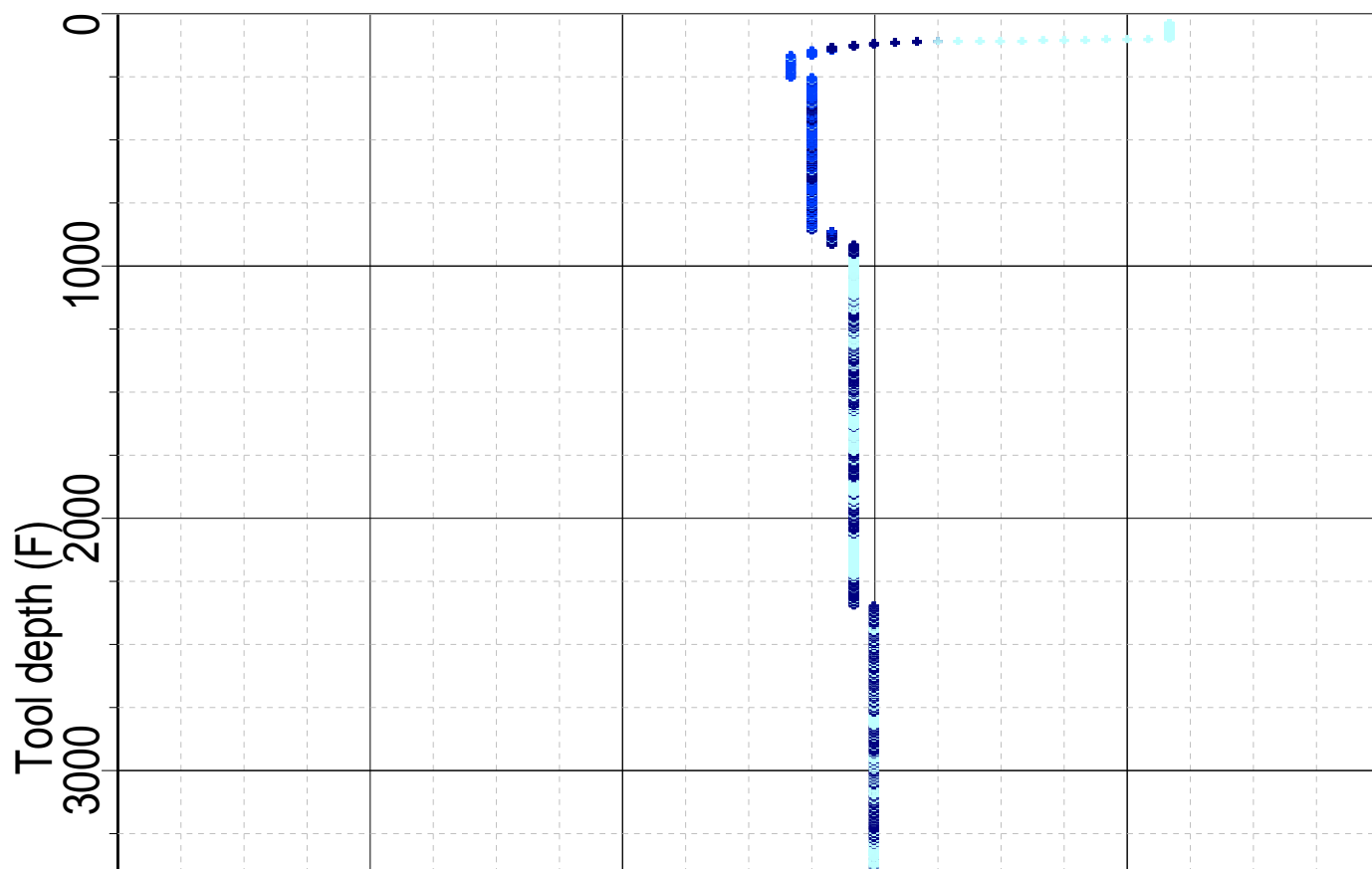
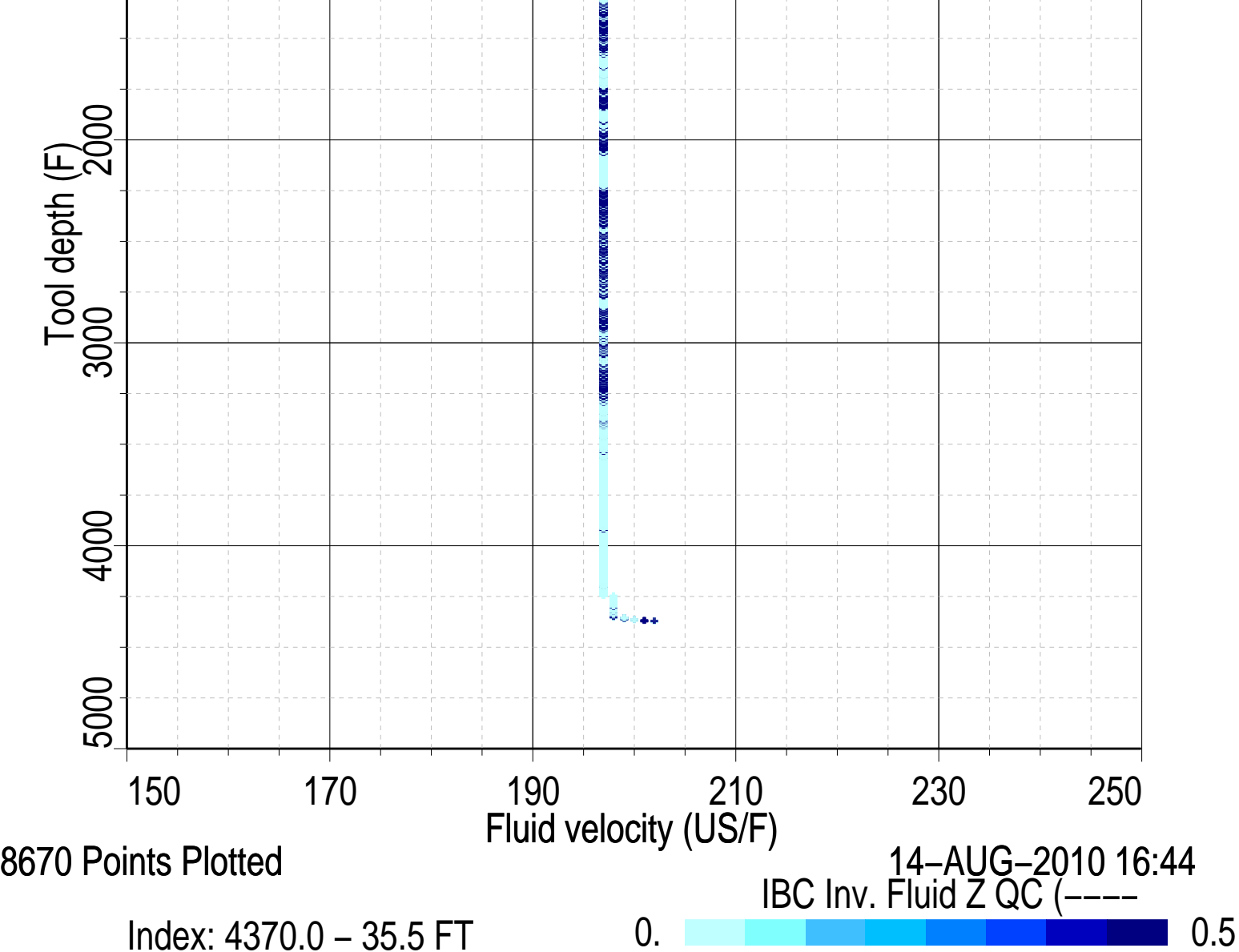
Parameters		
DLIS Name	Description	Value
System and Miscellaneous		
DO	Depth Offset for Playback	0.0 FT
PP	Playback Processing	NORMAL
Format: CORRELATION Vertical Scale: 5" per 100' Graphics File Created: 14-Aug-2010 16:34		

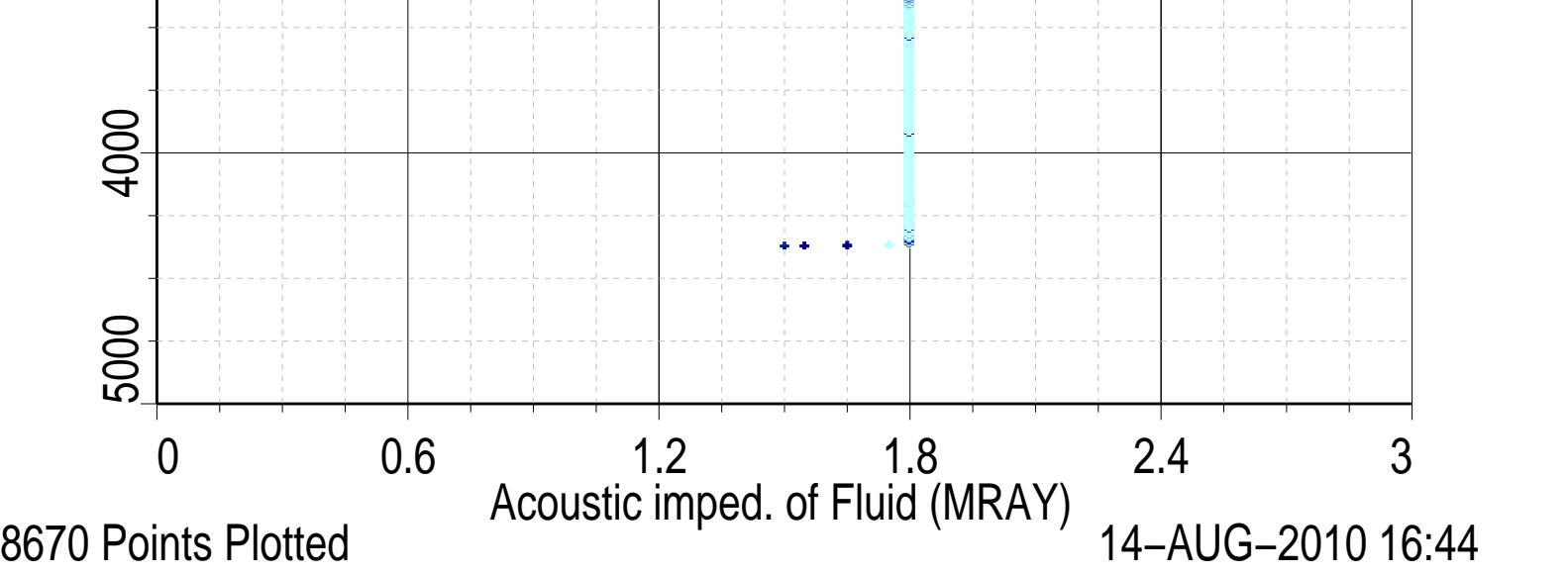
OP System Version: 17C0-154			
USIT-D	SRPC-3829-LSIM	SGT-N	SRPC-3829-LSIM
DTC-H	17C0-154		

Input DLIS Files						
DEFAULT	USI_005PUP	FN:4	PRODUCER	13-Aug-2010 12:43	4370.0 FT	35.5 FT
Output DLIS Files						
DEFAULT	USI_005PUP	FN:3	PRODUCER	14-Aug-2010 16:33		

Index: 4370.0 – 35.5 FT IBC Inv. Fluid Z QC (----) 0. 0.5







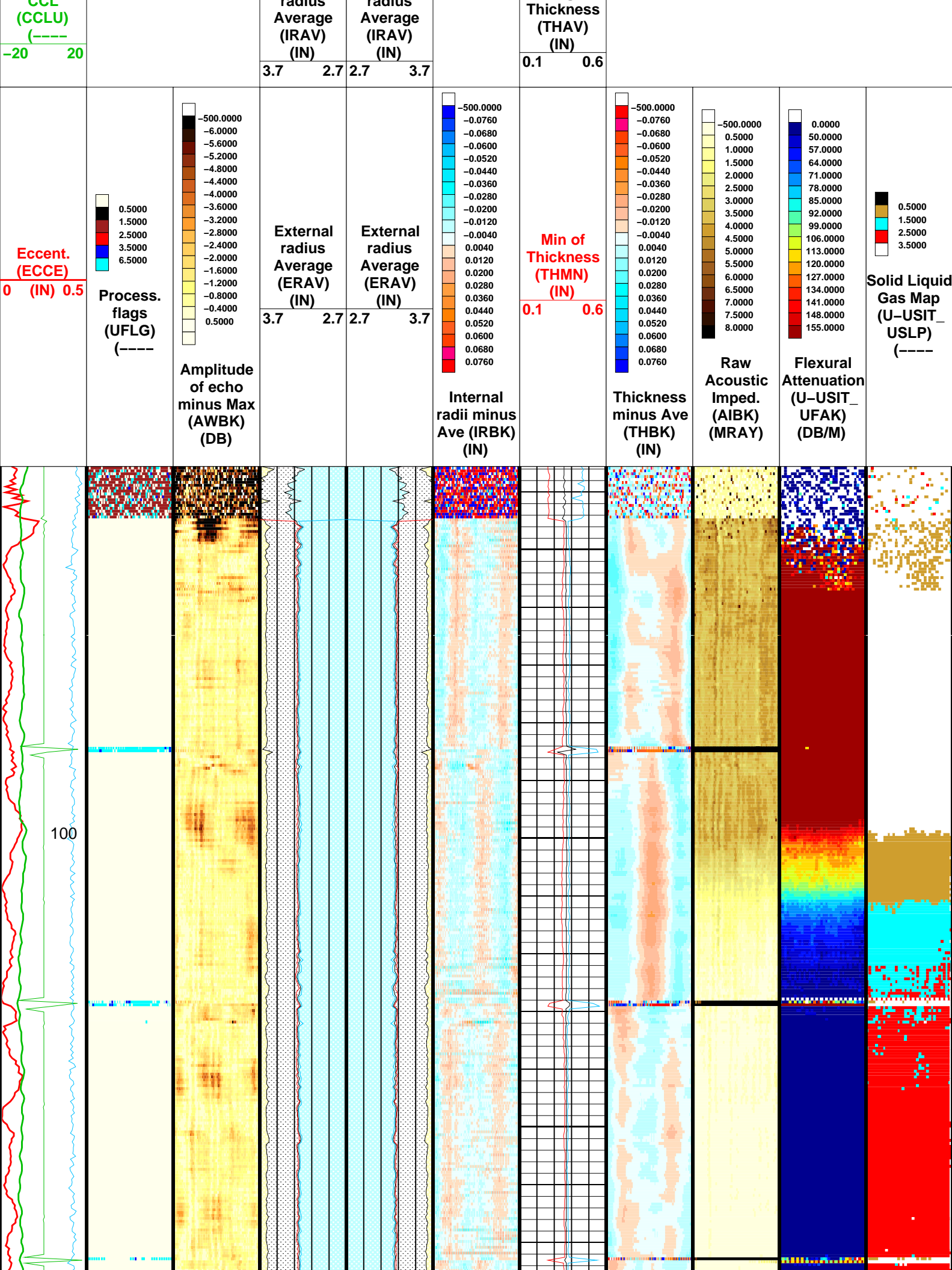
Company: Colorado Interstate Gas

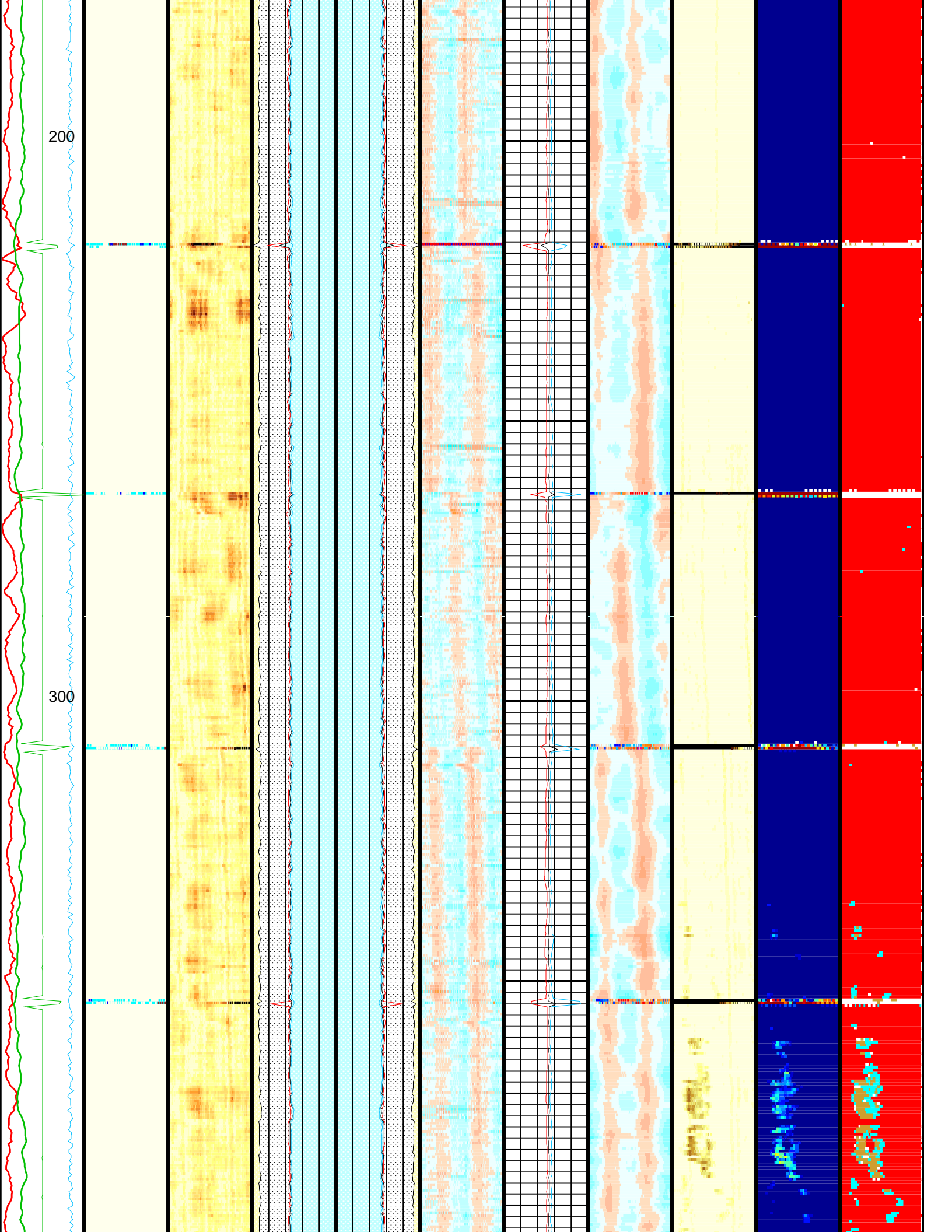
Well: Totem #7

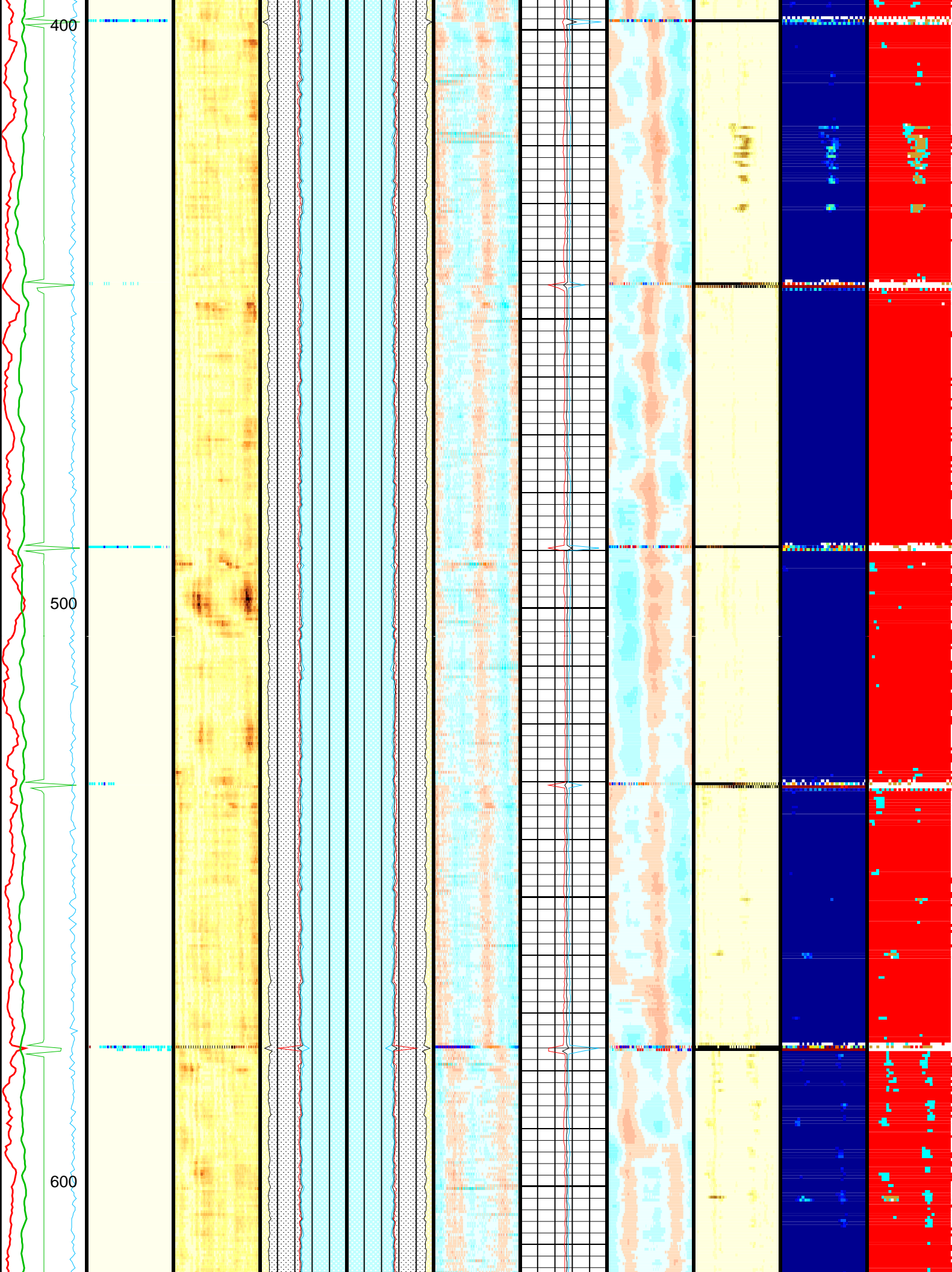
Input DLIS Files						
DEFAULT	USI_005PUP	FN:4	PRODUCER	13-Aug-2010 12:43	4370.0 FT	35.5 FT
Output DLIS Files						
DEFAULT	USI_005PUP	FN:3	PRODUCER	14-Aug-2010 16:33	4370.0 FT	35.5 FT

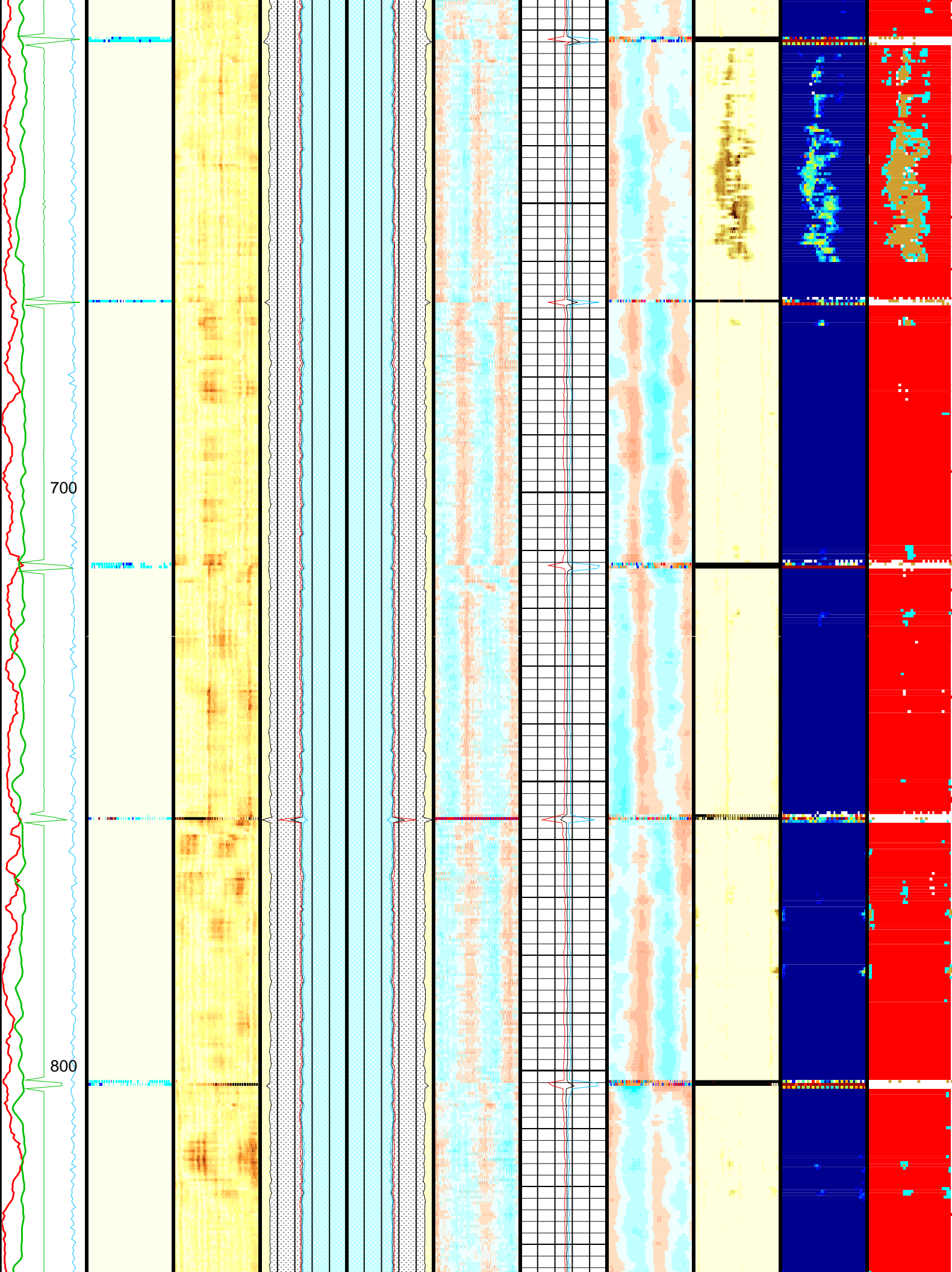
OP System Version: 17C0-154				
USIT-D	SRPC-3829-LSIM	SGT-N	SRPC-3829-LSIM	
DTC-H	17C0-154			

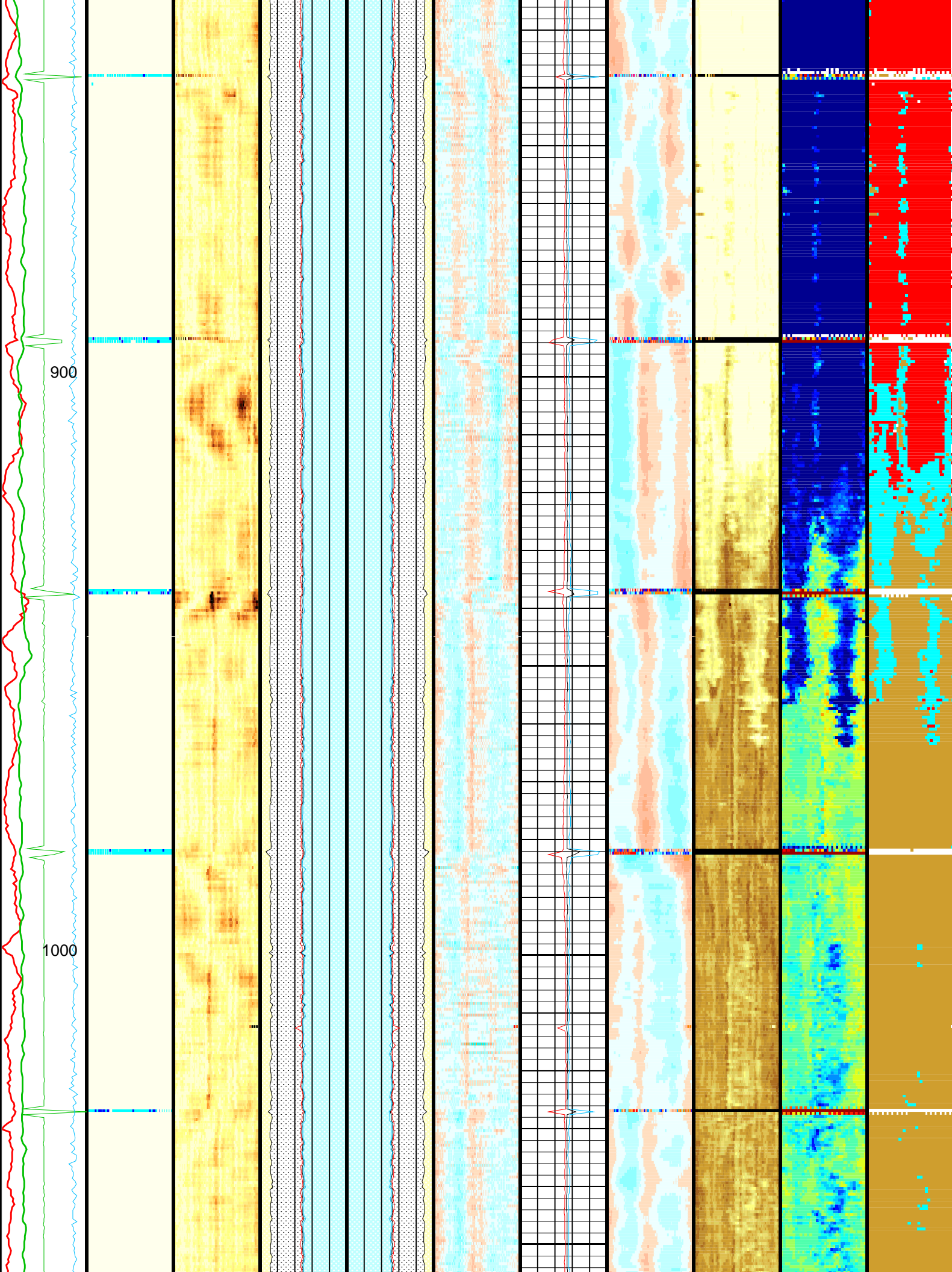
Image rotation (UCAZ) (DEG)	0360					
Tool/Tot. Drag From D4T to STIA						
Cable Drag From D4T to STIT						
Stuck Stretch (STIT)	0(F)50					
Gamma Ray (GR) (GAPI)	0150		Min of Internal radius (IRMN) (IN)	Min of Internal radius (IRMN) (IN)		
			3.72.7	2.73.7		
RSAV (RSV) (RPS)	67.5		Internal radius Maximum (IRMX) (IN)	Internal radius Maximum (IRMX) (IN)	Maximum of Thickness (THMX) (IN)	
			3.72.7	2.73.7	0.10.6	
GCI			Internal radius	Internal radius	Average of	

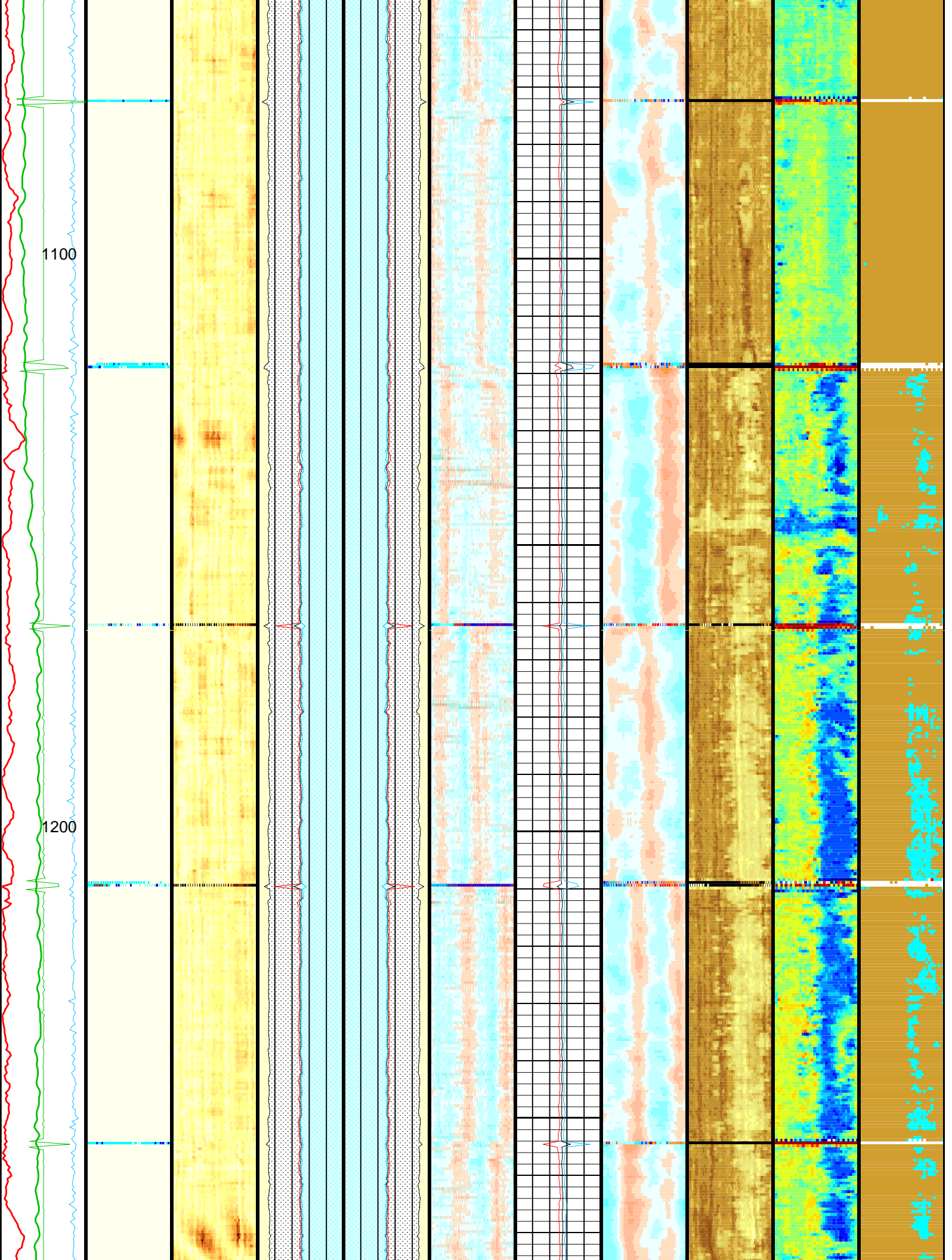


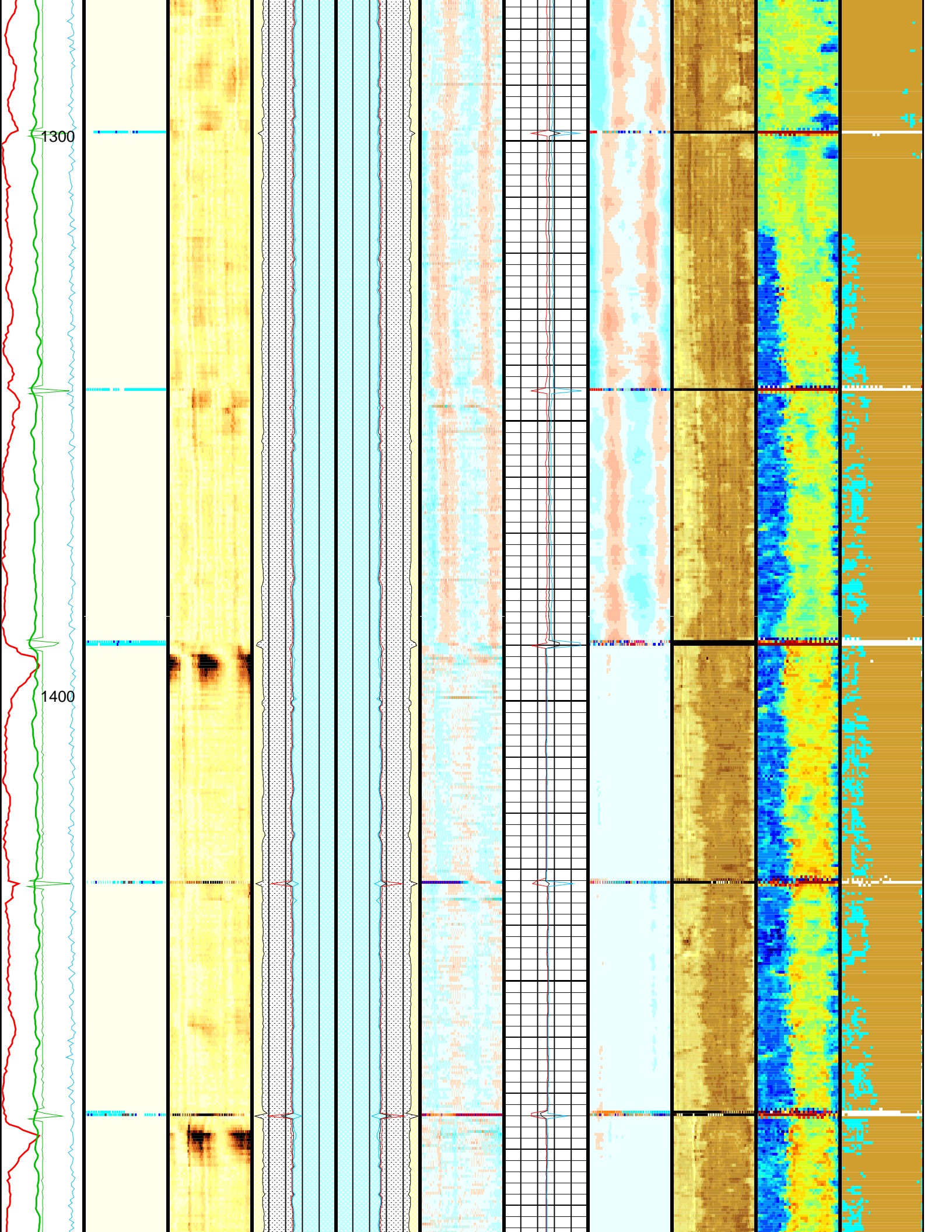


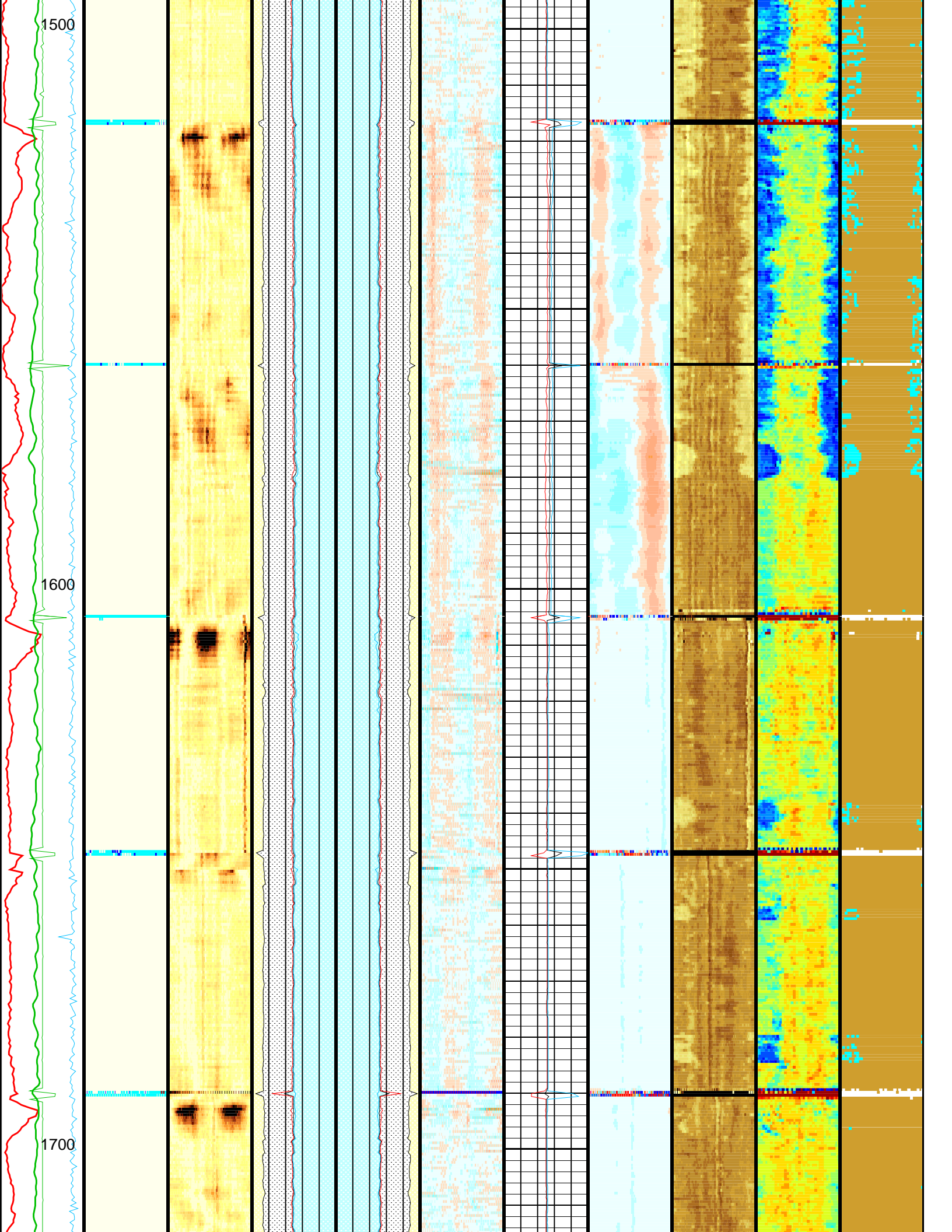


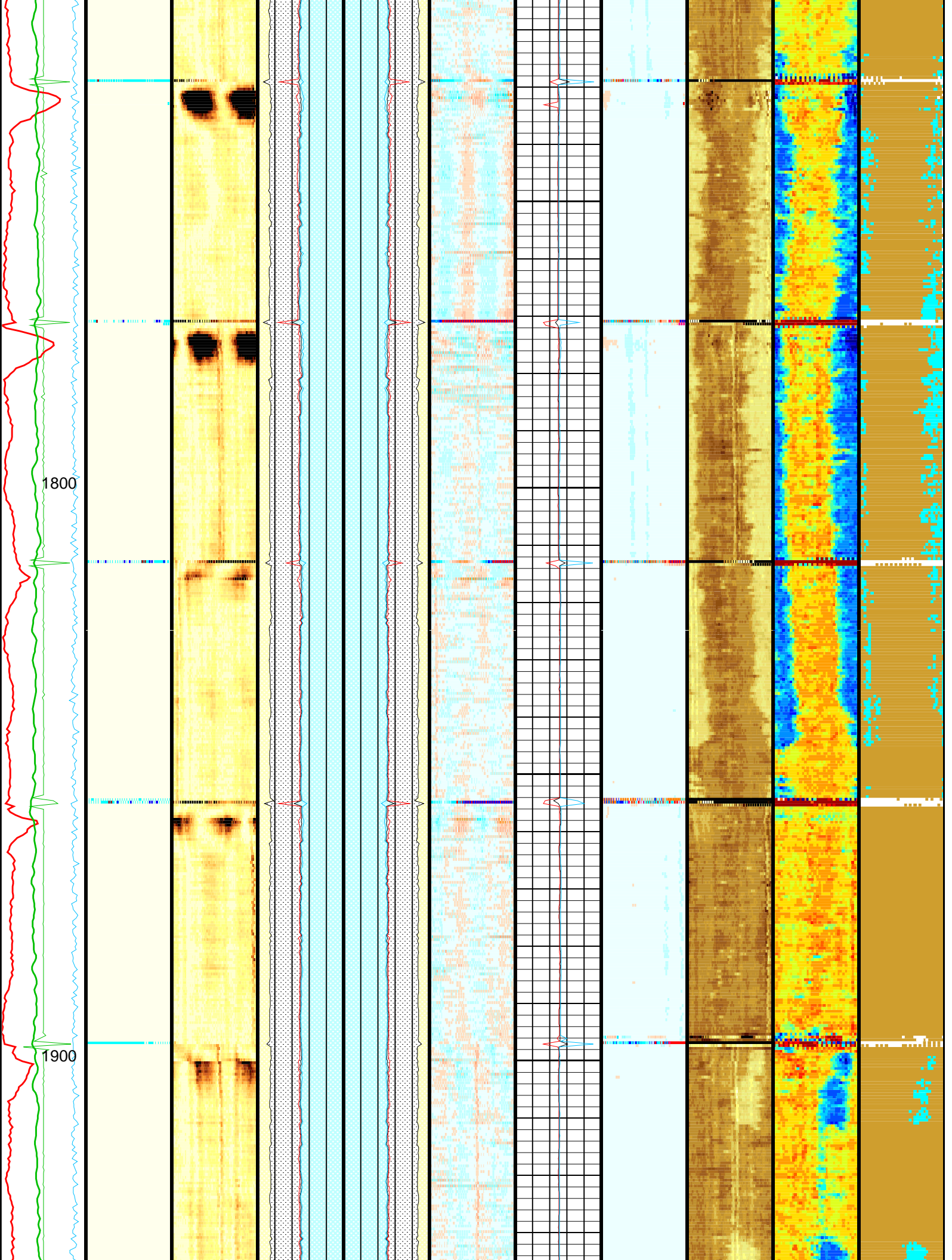


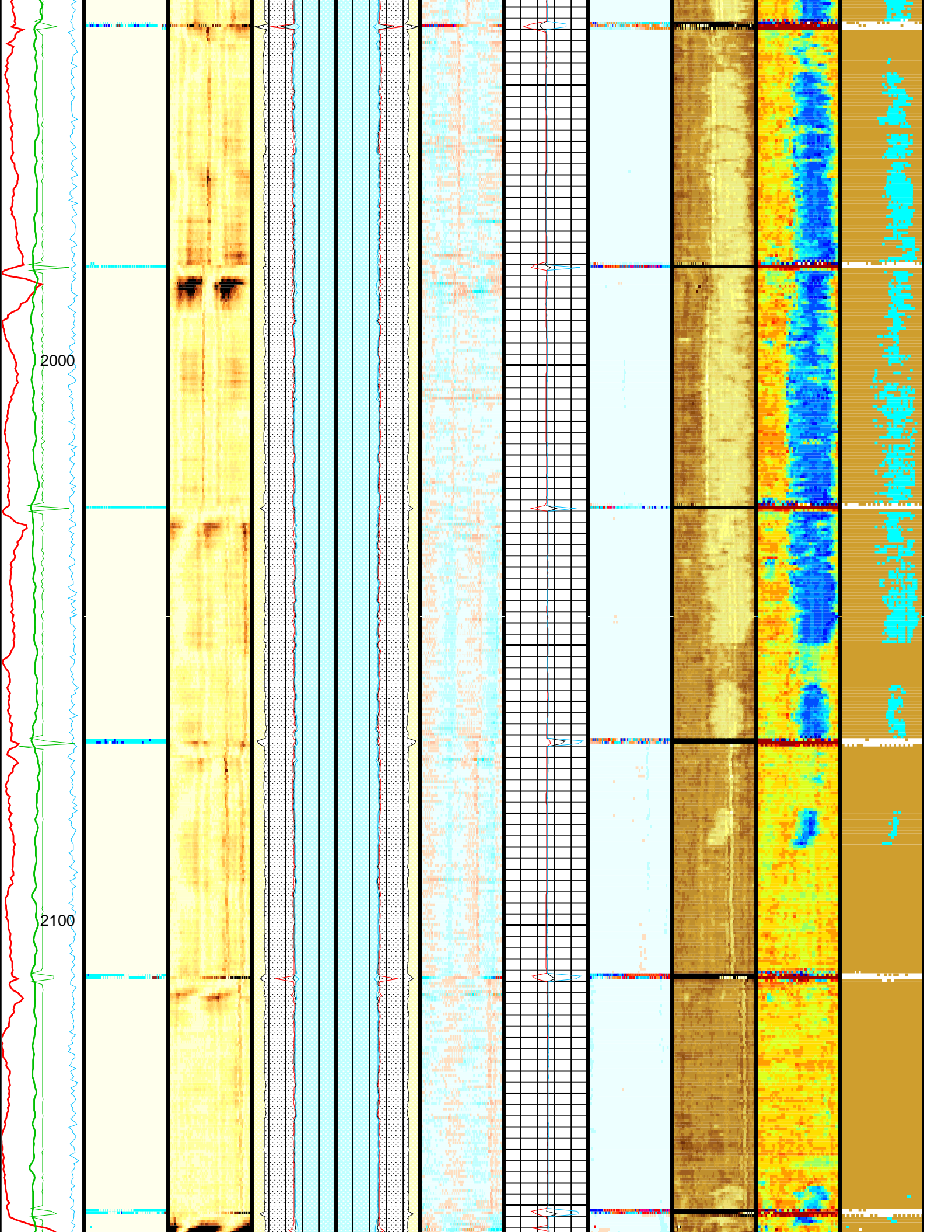


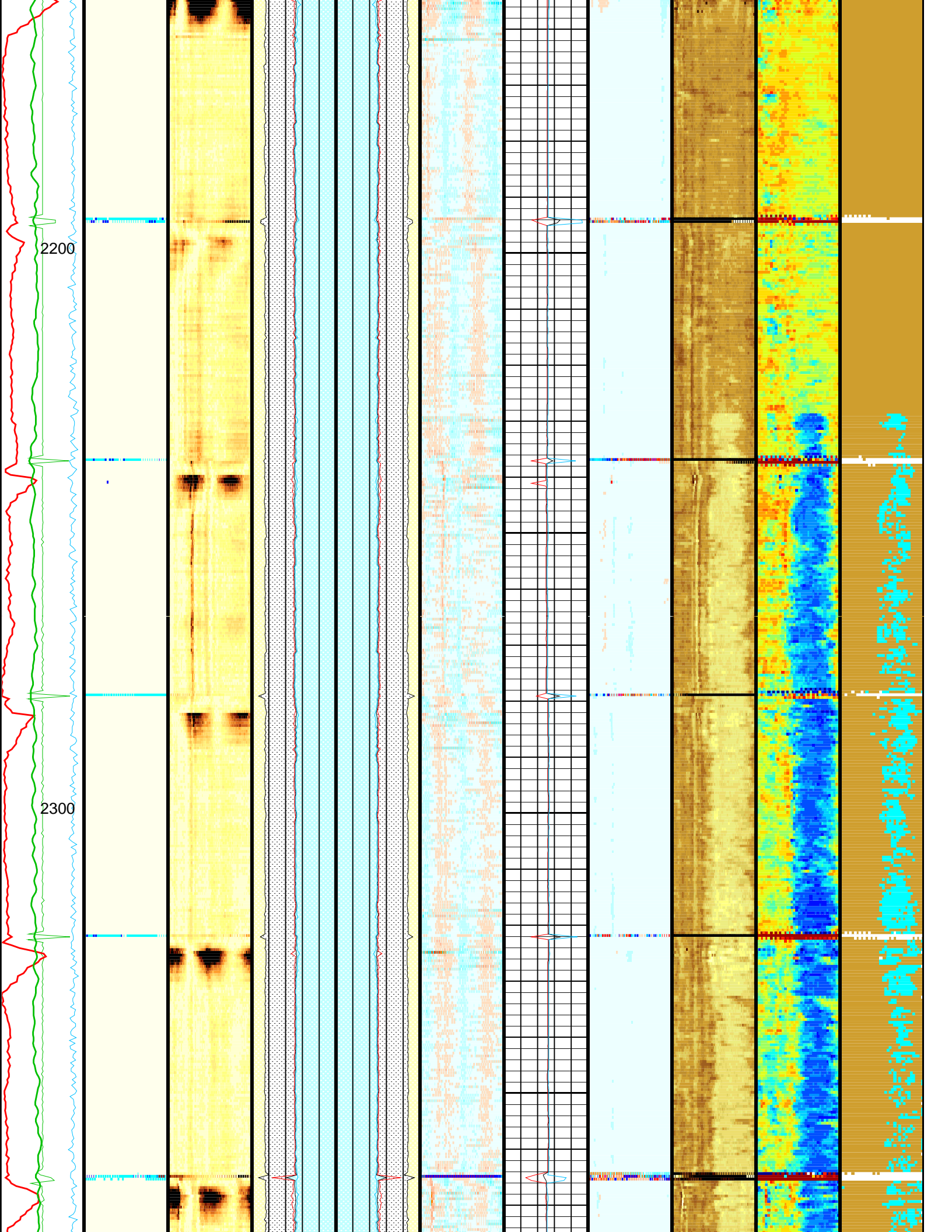


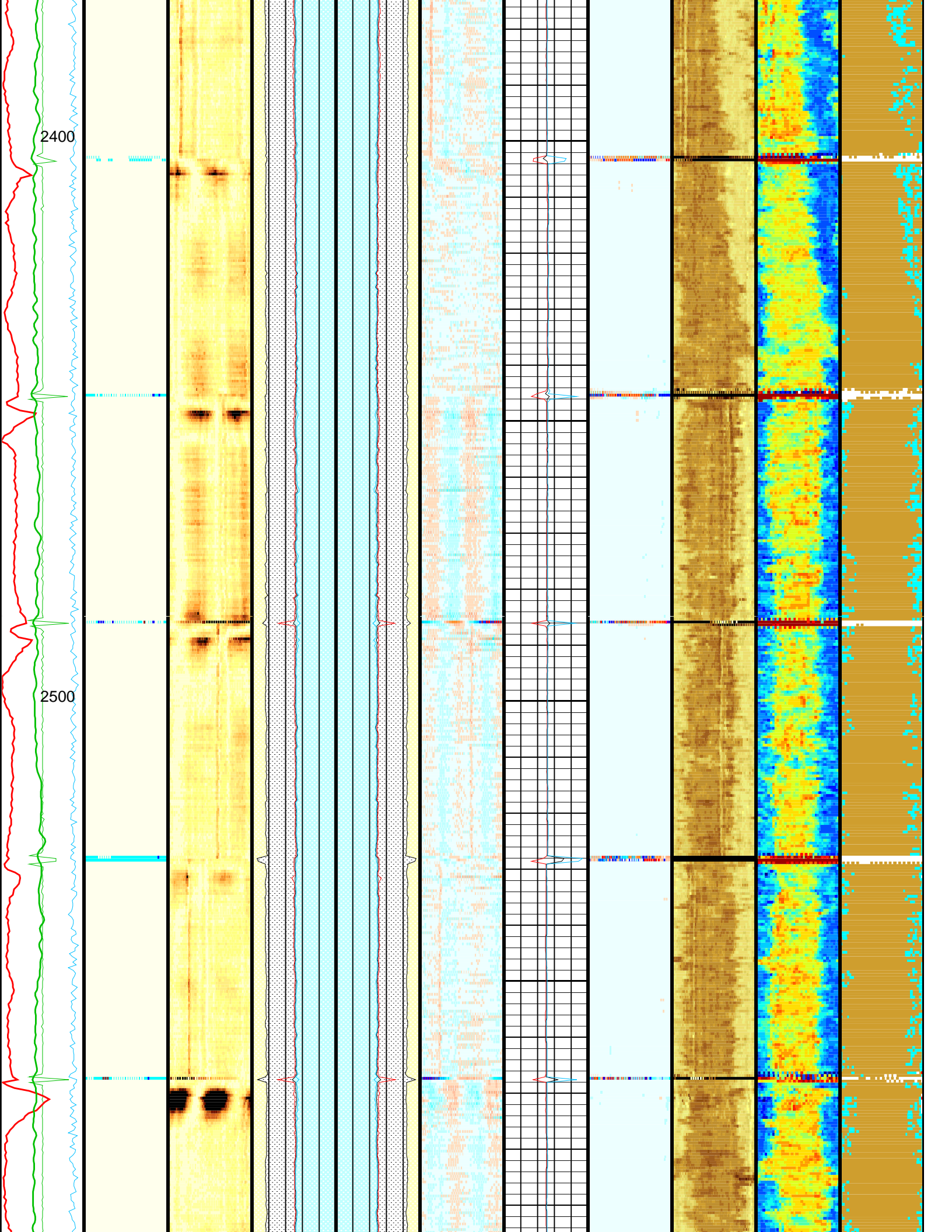


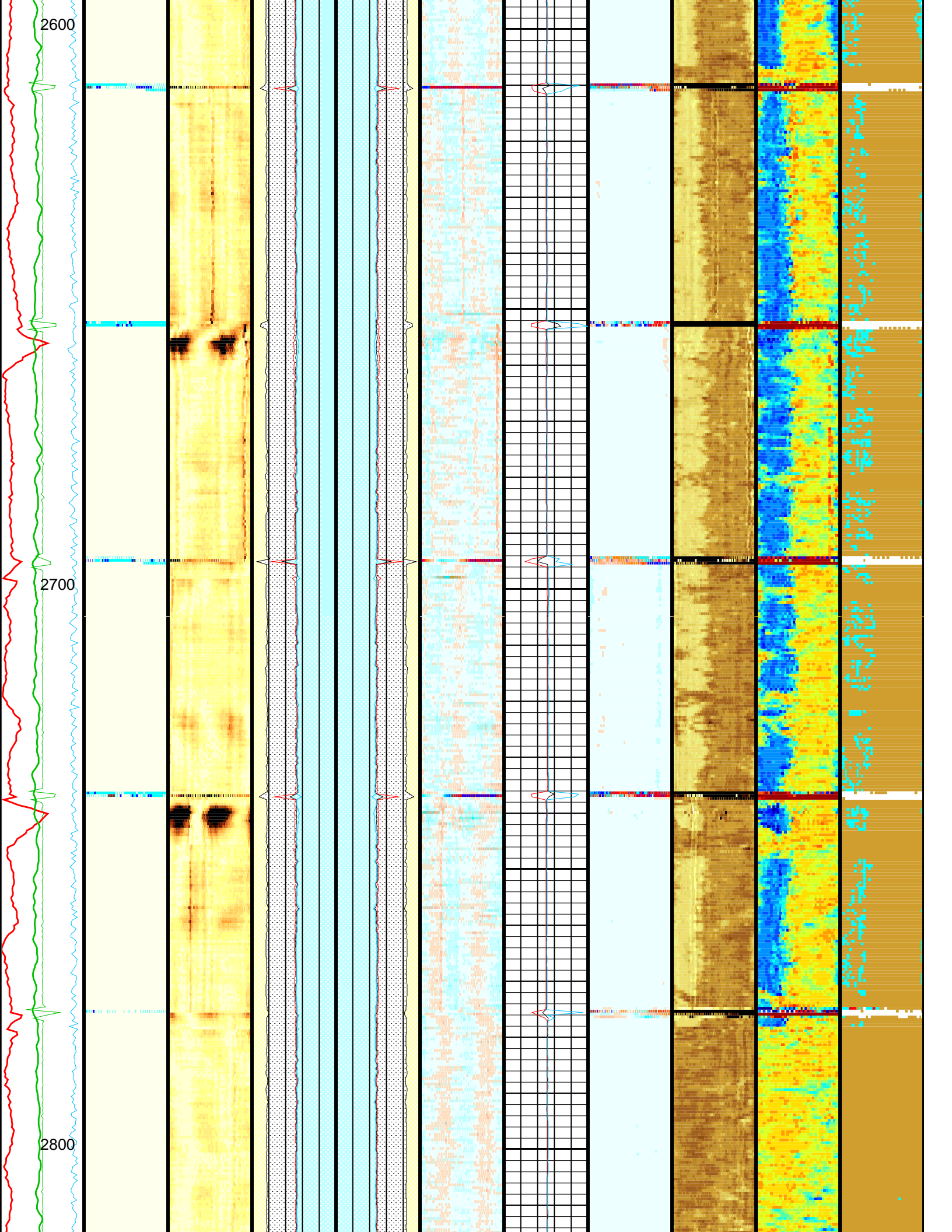


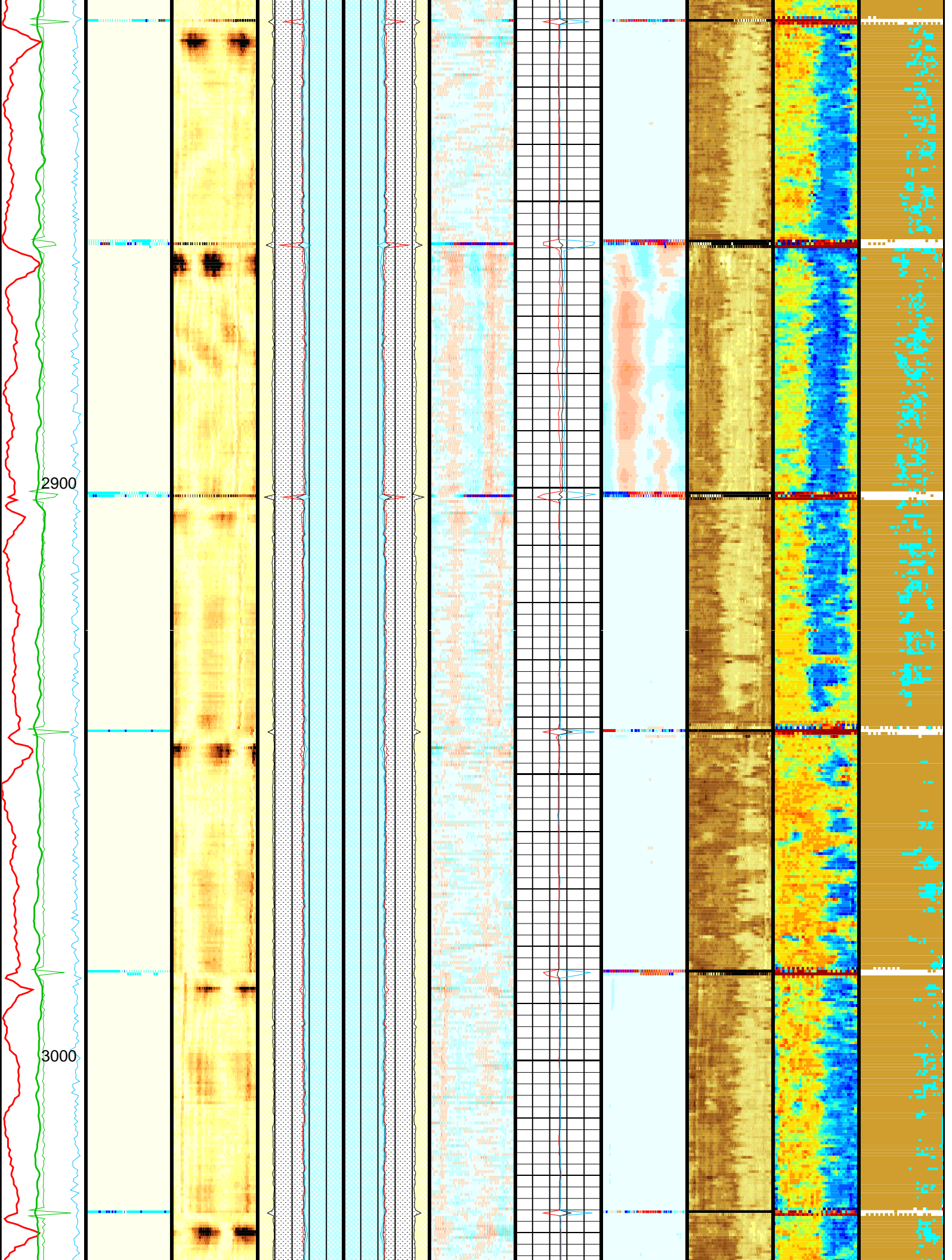


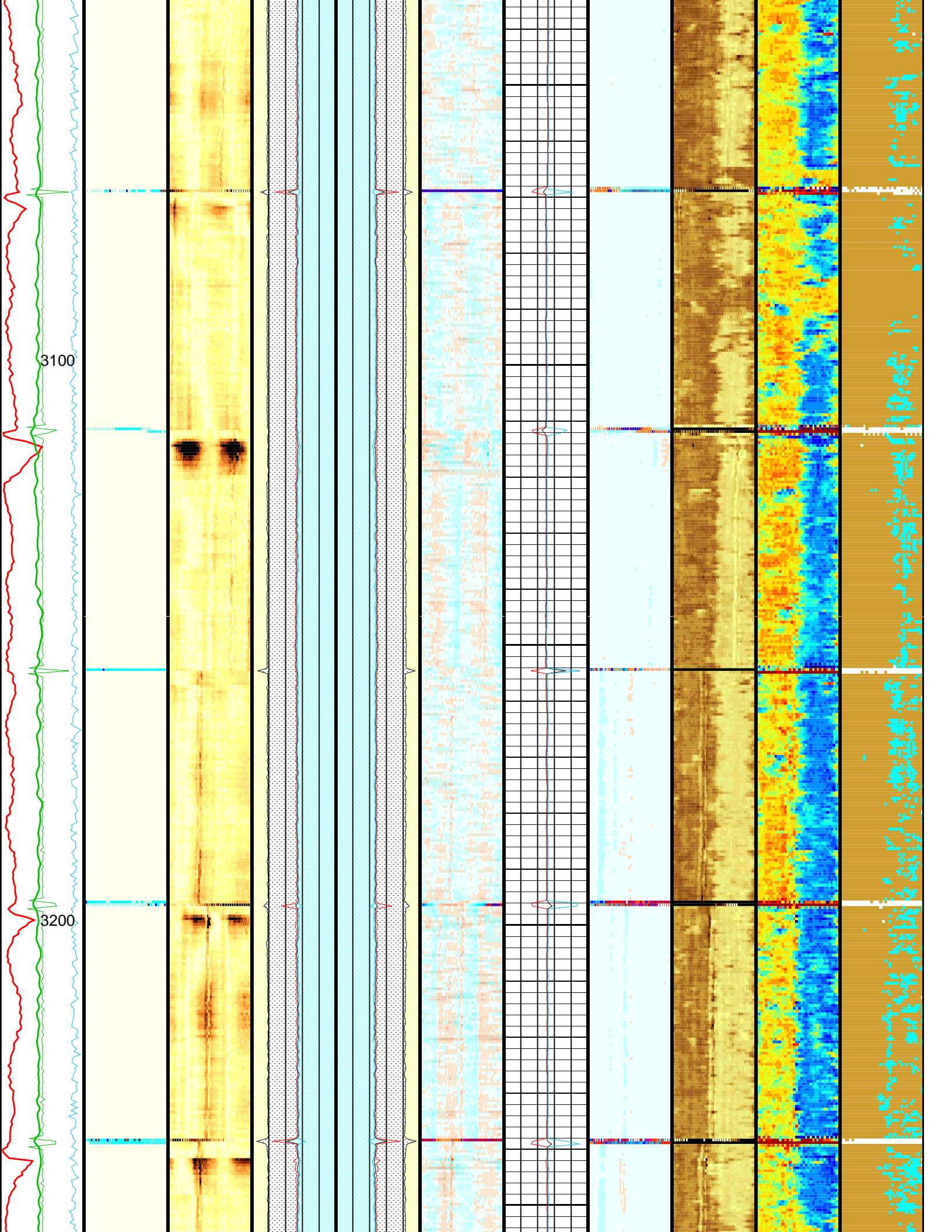


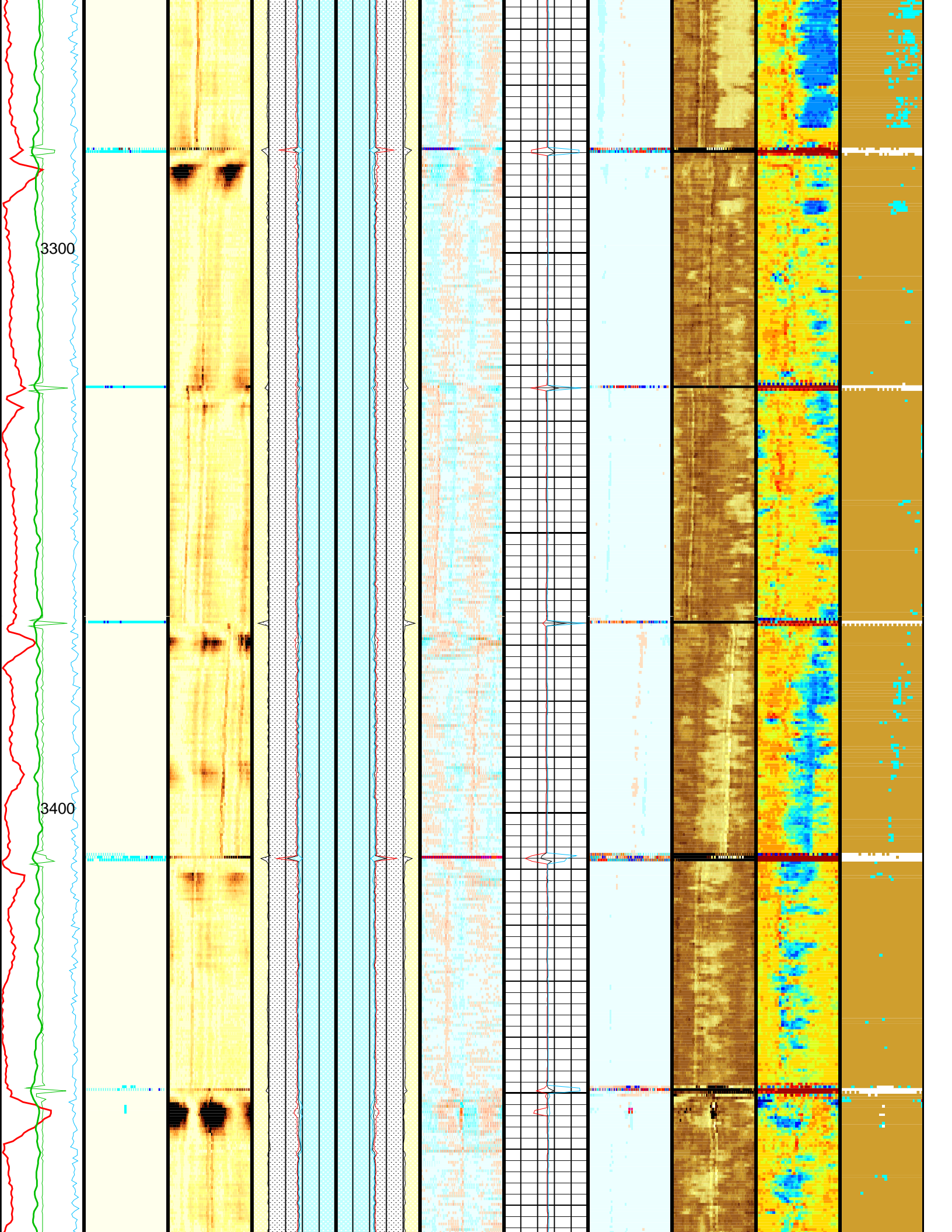


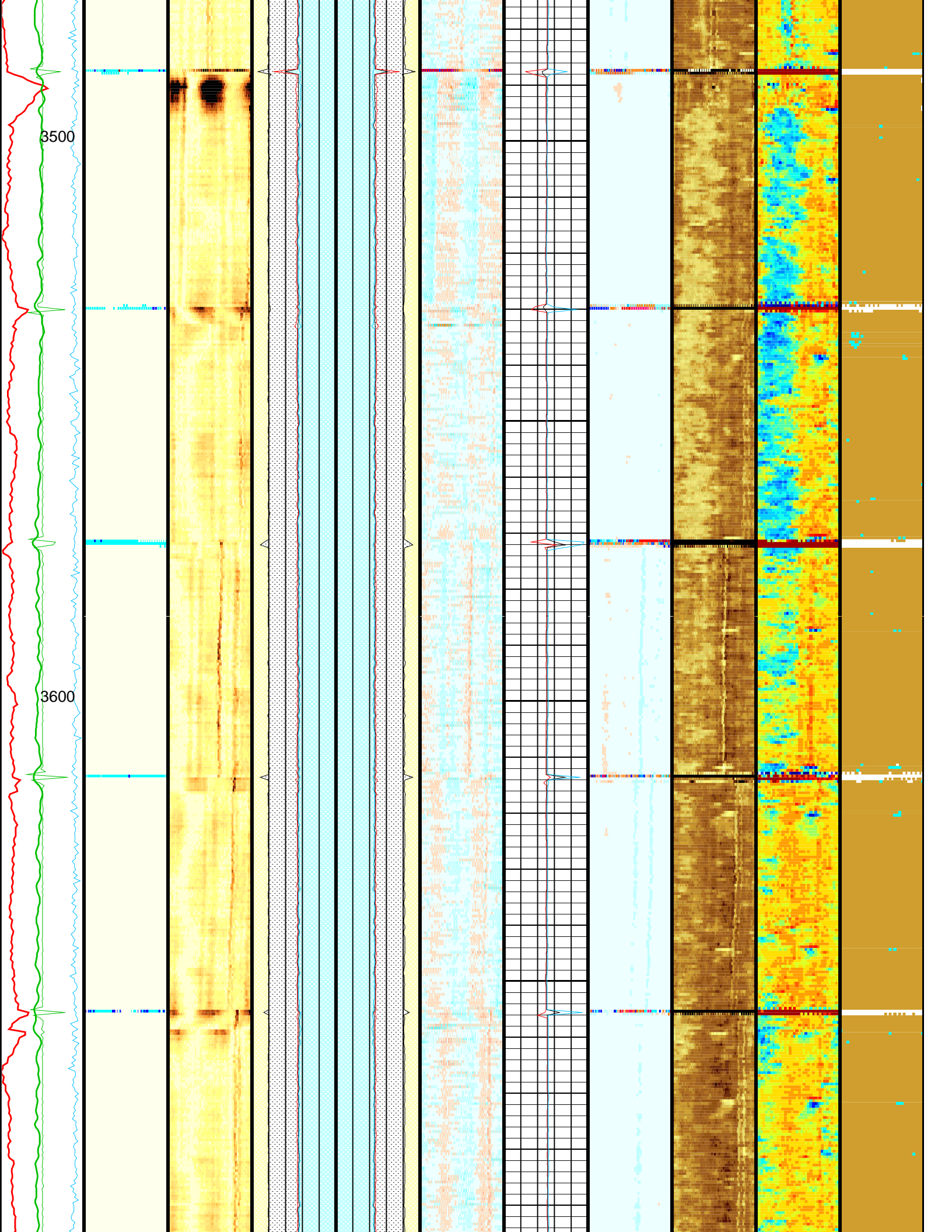


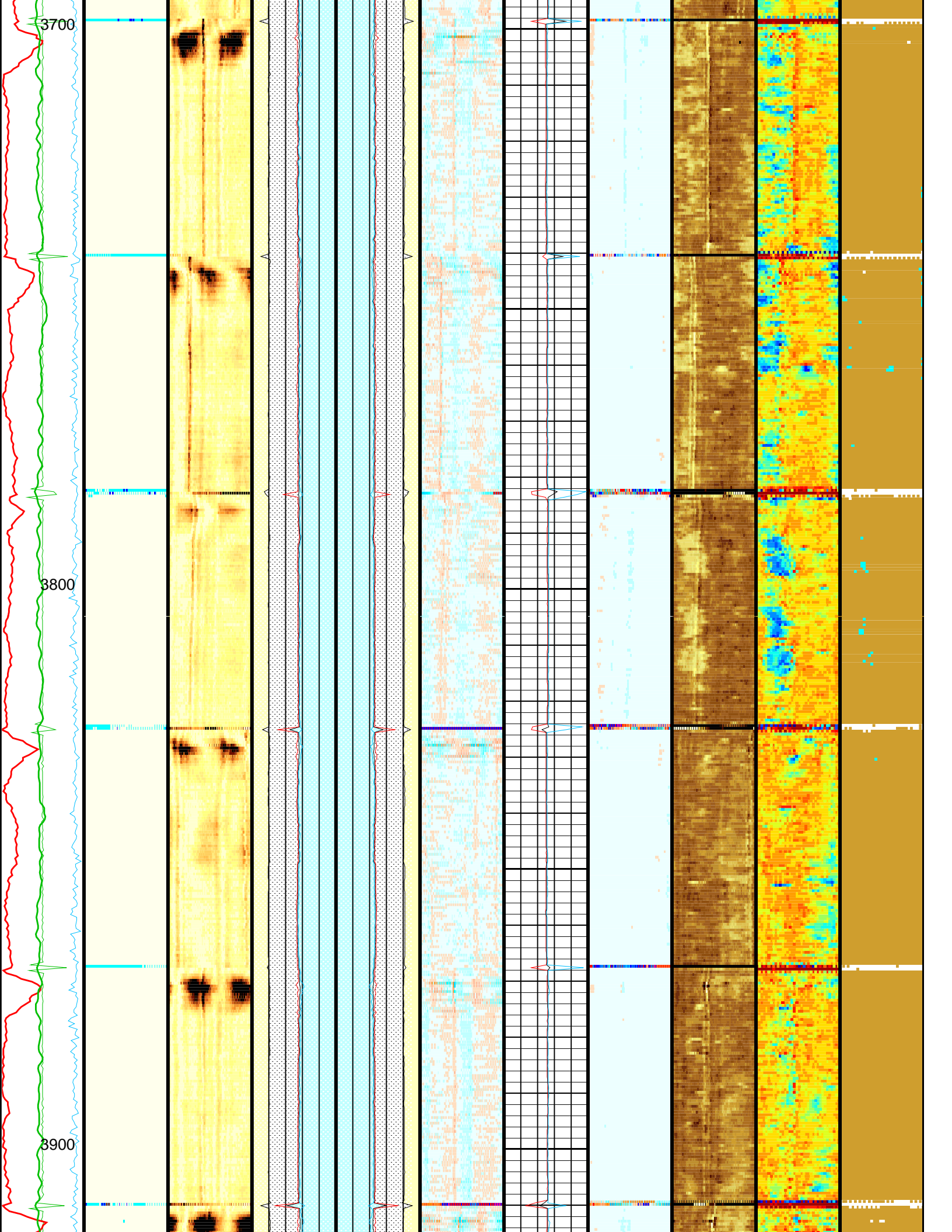


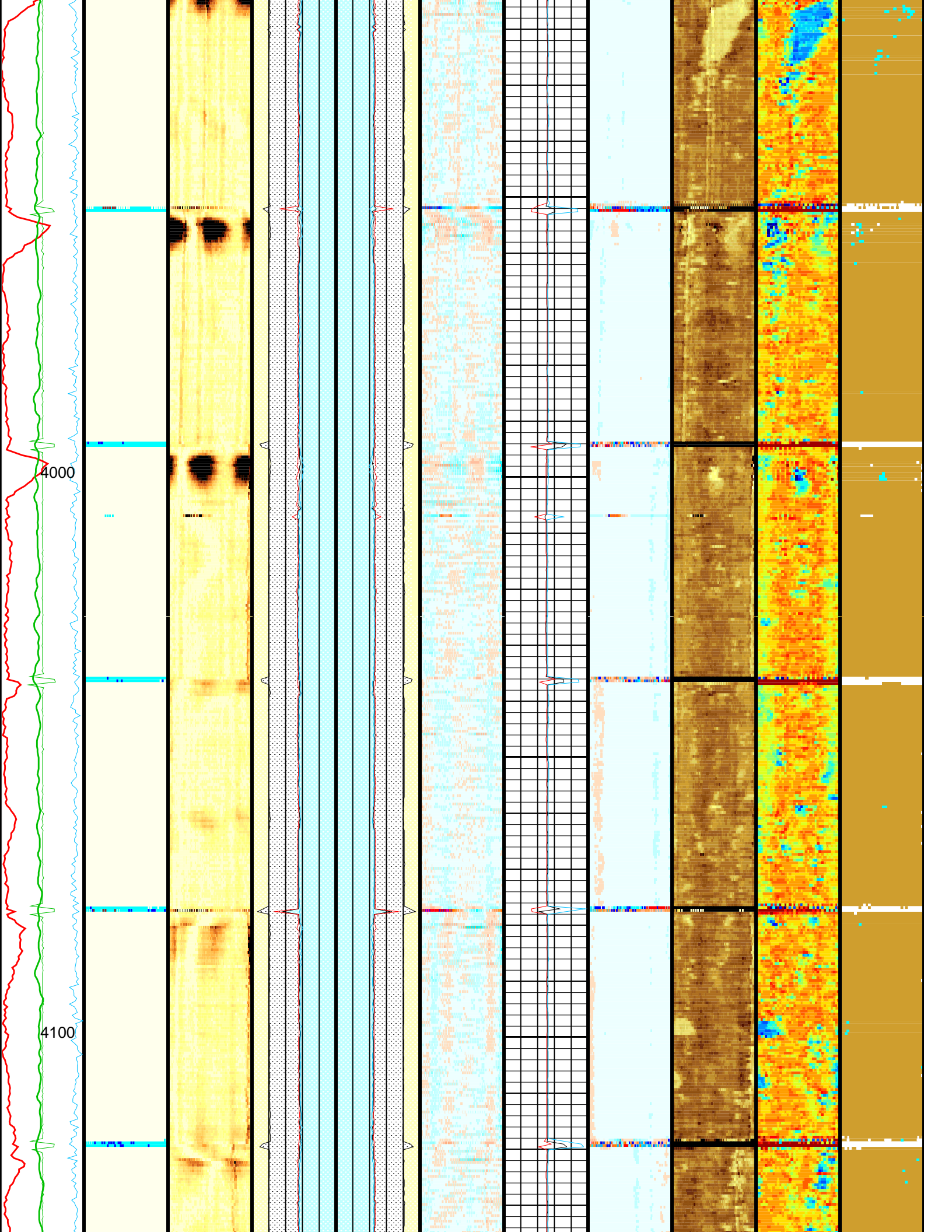


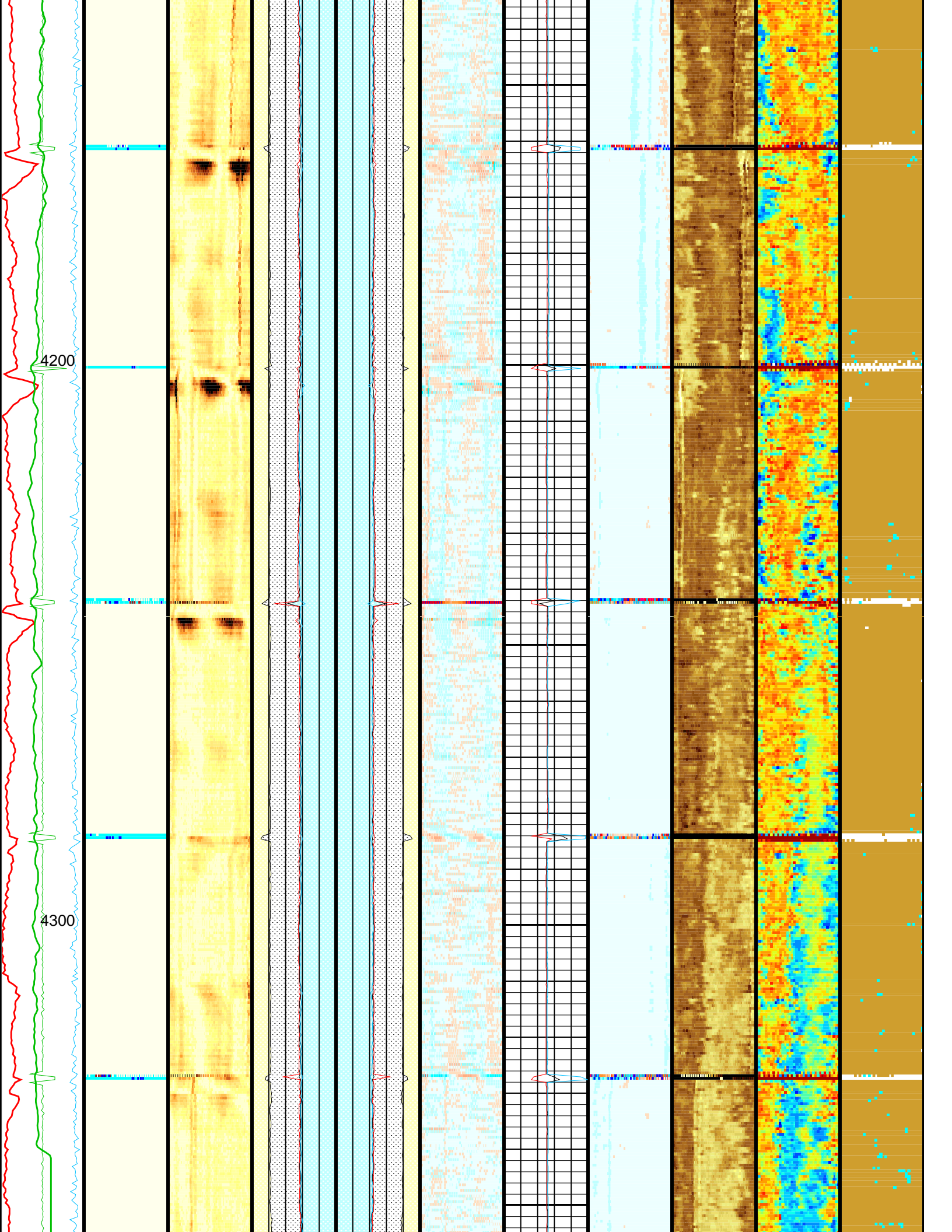


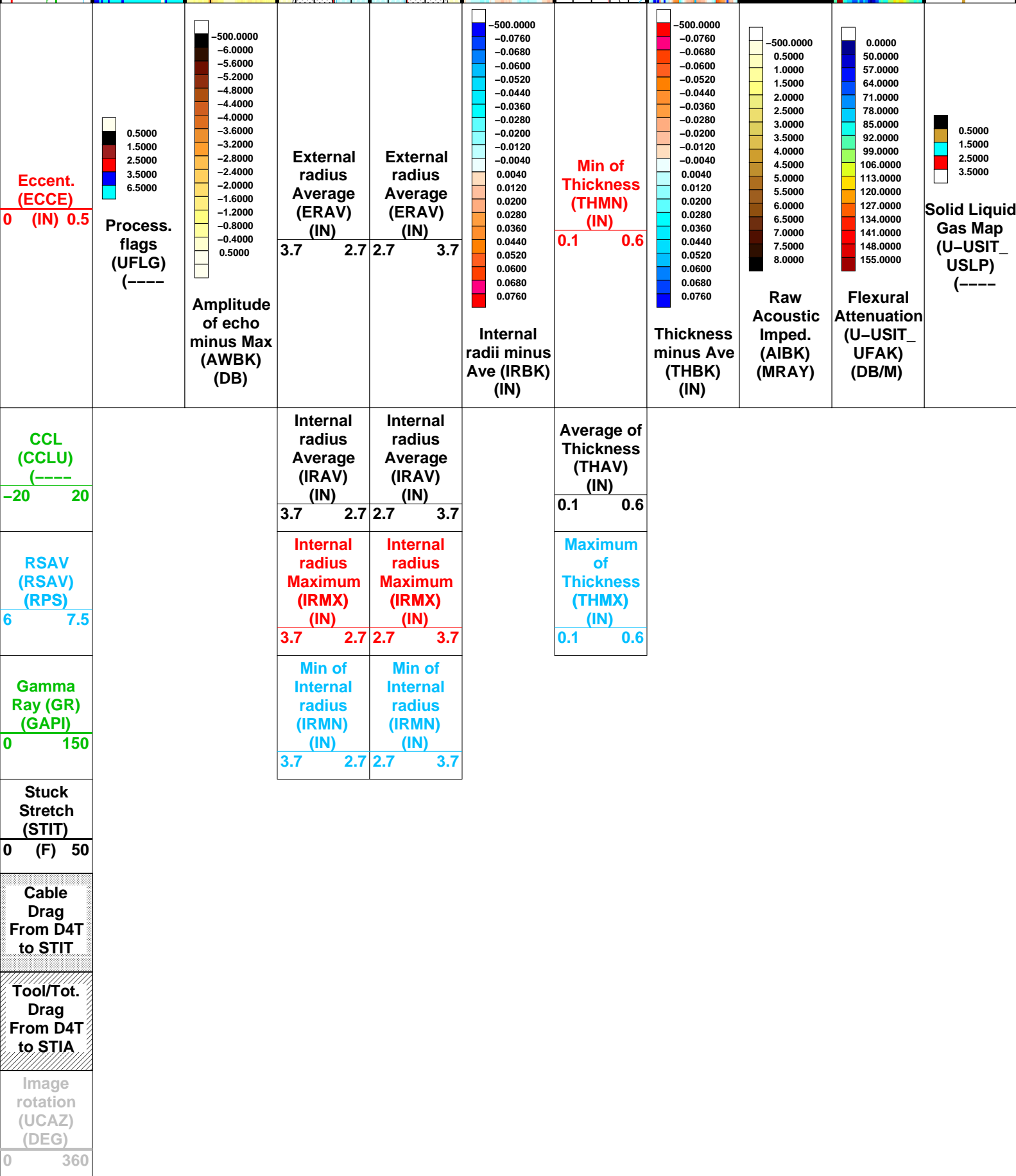
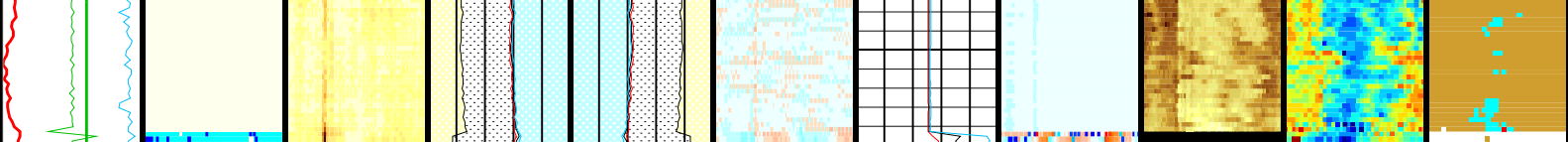












Recommended casing thickness range for optimum cement impedance measurement : 0.27 to 0.6 IN.

Parameters

DLIS Name	Description	Value	
USIT-D: Ultrasonic Imaging - D			
AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	20	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	7	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	6.276	IN
DFVL	Default Fluid Velocity	202	US/F
DOT	Diameter of Transducer Sensor	1.756	IN
EMXV	EMEX Voltage	32	V
FSOD	Fluid Slowness Fits Casing Outer Diameter	2_UFSL_N_UFAI	
IMAR	Image Rotation	OFF	
MW	Mud Weight	8.4	LB/G
RCOD	Reference Calibrator Outer Diameter	4.5	IN
RCSO	Reference Calibrator Standoff	0.8425	IN
RCTH	Reference Calibrator Thickness	0.2165	IN
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	130	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.362	IN
U-USIT_CEMT	USIT Cement Type	CLASS_G	
U-USIT_DFSZ	Drilling Fluid Specific Acoustic Impedance	0	MRAY
U-USIT_IISR	USIT IBC Inverted Fluid Slowness Resolution	1.0_US_P_FT	
U-USIT_IIZR	USIT IBC Inverted ZMUD Resolution	0.050_MRAY	
U-USIT_OCDI	USIT Outer Casing Diameter	10.75	IN
U-USIT_OCSH	USIT Outer Casing Shoe	1123	FT
U-USIT_OCWE	USIT Outer Casing Weight	40.5	LB/F
U-USIT_TIEB	IBC Third Interface Echo Bin Processing	YES	
U-USIT_TIEC	IBC Third Interface Echo Cleaning	NONE	
U-USIT_TIEM	IBC Third Interface Echo Multi Tracking	NO	
U-USIT_TIEP	IBC Third Interface Echo Policy	BFEP	
U-USIT_TIER	IBC Third Interface Echo Receivers	BOTH	
U-USIT_U3WE	Third Interface Echo Window End	110	US
U-USIT_UBTP	USIT Bottom Transducer Position	UNKNOWN	
U-USIT_UFAO	USIT Flexural Attenuation Offset	-15	DB/M
U-USIT_UIAP	USIT IBC Answer Product Enabled	SolidLiquidGasMap	
U-USIT_UIST	Ultrasonic IBC Sonde Type	Sub_ibcs_A	
U-USIT_UTAN	USIT Transducer Angles	33_DEG	
UMAO	USIT Measurement Angular Offset	-10	DEG
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_5_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136UNF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	21.7078	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.48	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	9625.00	FT
TDL	Total Depth - Logger	4370.00	FT
System and Miscellaneous			
BS	Bit Size	8.750	IN
CWEI	Casing Weight	26.00	LB/F
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	

Input DLIS Files

DEFAULT	USI_005PUP	FN:4	PRODUCER	13-Aug-2010 12:43	4370.0 FT	35.5 FT
---------	------------	------	----------	-------------------	-----------	---------

Output DLIS Files

DEFAULT	USI_005PUP	FN:3	PRODUCER	14-Aug-2010 16:33
---------	------------	------	----------	-------------------

Company:	Colorado Interstate Gas	Schlumberger
Well:	Totem #7	
Field:	Totem	
County:	Adams	
State:	Colorado	

Isolation Scanner

USIT