



CEMENT BOND LOG

COMPANY	URSA OPERATING COMPANY
WELL	VALLEY FARMS 34D-11-06-92
FIELD	GRAVEL TREAD
COUNTY	GARFIELD
LOCATION:	ST/
SHL:	1216' FSL & 1167' FEL
BHL:	0256' FSL & 1980' FEL
SEC.11	TWP.6S RGE12W

TE COLORADO

LOCATION:	
SHL: 1216'	FSL & 1167' FEL
BHL: 0256'	FSL & 1980' FEL
SEC.11	TWP.6S RGE92N

PERM. DATUM GROUND LEVEL	ELEV. 5577'
LOG MEASURED FROM K.B. 13.5 FT. ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM K.B.	

ELEV.:K.B.	5590.5
D.F.	5590.5
G.L.	5577.0

DATE	19-JAN-2015
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RUN NO.	ONE
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DEPTH DRILLER	7621'
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DEPTH LOGGER	7469'
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BTM. LOG INTERVAL	7463'
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TOP LOG INTERVAL	3600'
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OPEN HOLE SIZE	8.750"
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TYPE FLUID	WATER
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DENS.	8.3
VIISC.	8.3

MAX. REC. TEMP.	182 DEG. F
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EST. CEMENT 10P	N/A
TIME LEFT READY	5:00 A

TIME	1000	1000
WELL	READY	R.O.A.

TIME LOGGER ON BLM.	SEE LOG
ENCLOSURE NO	14347

EQUIP. NO.	14241
LOCATION	CASPER

RECORDED BY	P MAZIB
LOCATION	CASPER

WITNESSED BY	NOT WITNESS
RECORDED BY	FILED BY

WITNESS BY WITNESS

BOOKHOLE RECORD		
BIN NO	BIT	EBOM
		TO

NO.	DTI	NO.	NO.
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[illegible][illegible][illegible]

CASING RECORD	SIZE	WT/FT	G
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SURFACE STRING	8.625"	
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PROT. STRING	4.5"	11.6
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PROD. STRING			
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LINER			
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11

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

REMARKS	Rig: CRANE #15045	Service Order # 108854831
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LOG WAS CORRELATED TO WEATHERFORD PULSED NEUTRON LOG DATED 19-JAN-2015 BHT 182 °F

ALL LOGGED INTERVALS PER CUSTOMER REQUEST

Prints: 2

THANK YOU FOR CHOOSING WEATHERFORD WIRELINE SERVICES CASPER, WY

EQUIPMENT DATA

[illegible]

DEPTH SCALE: 5":100'

PROCESSED VERSION: 2012.07.18.162"

MAIN PASS

108854831 SBTMAIN

FINISH DEPTH: 963.4 Feet DIRECTION: UP DATE: 01/19/2015 TIME: 23:15 MODE: ORIGINAL

CCL

-3600 Millivolts 400

GAMMA RAY

0 API 150

TRAVEL TIME 3FT

310 Microseconds 210

MAX ENERGY

0 mv 100

AVG ENERGY

0 mv 100

MIN ENERGY

0 mv 100

Tension

0 2000

3' AMP X 5

0 mv 20

AMPLITUDE 3FT

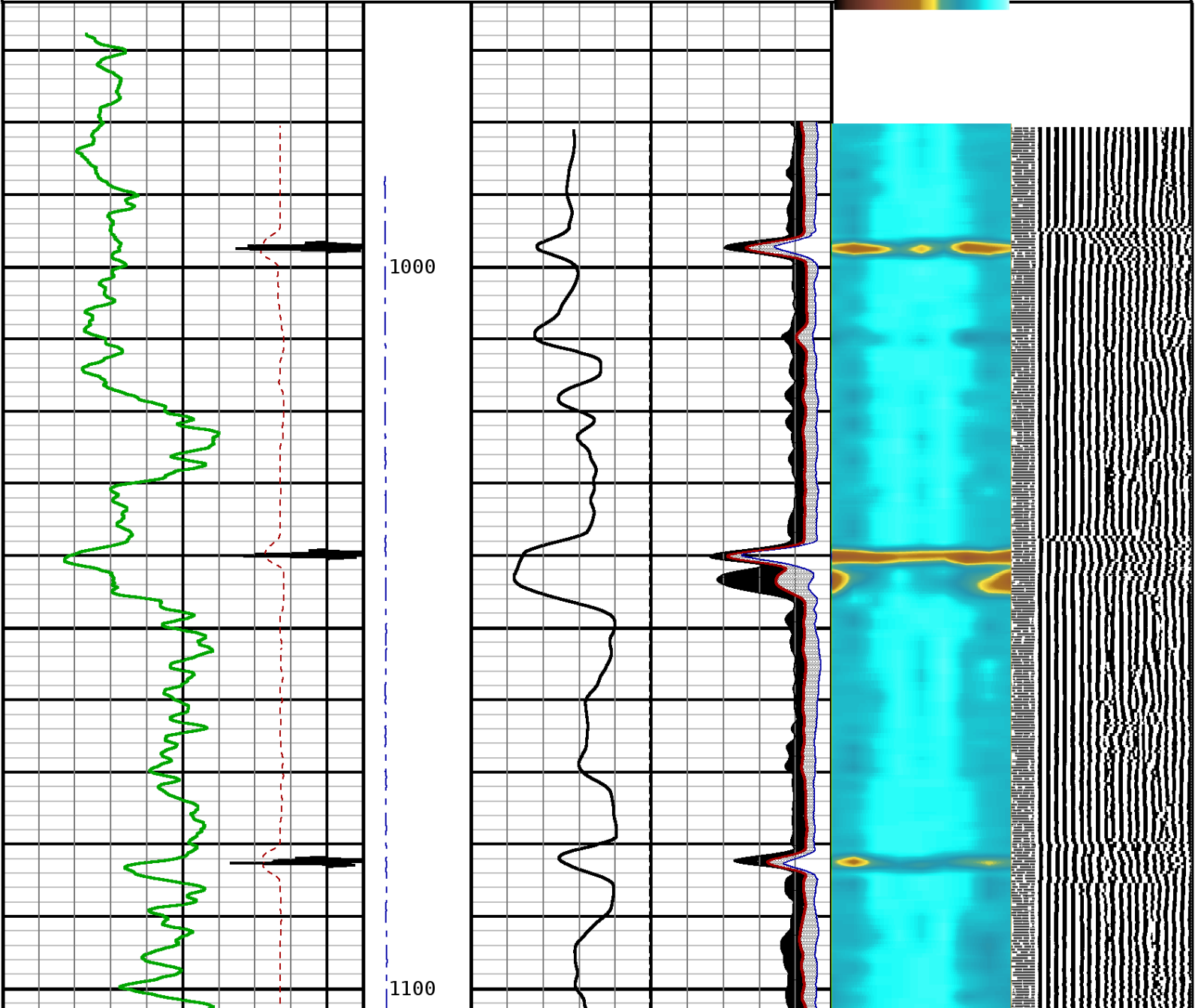
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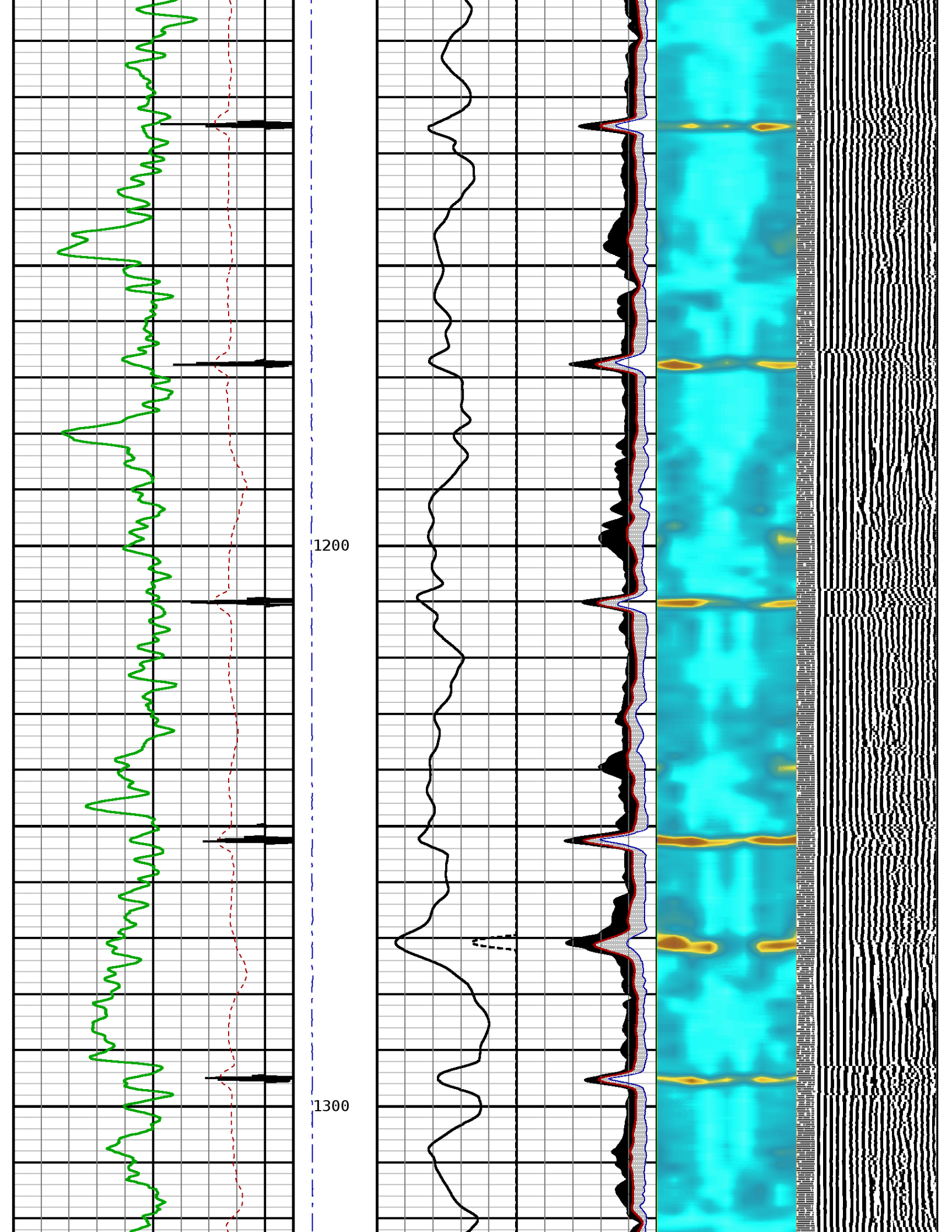
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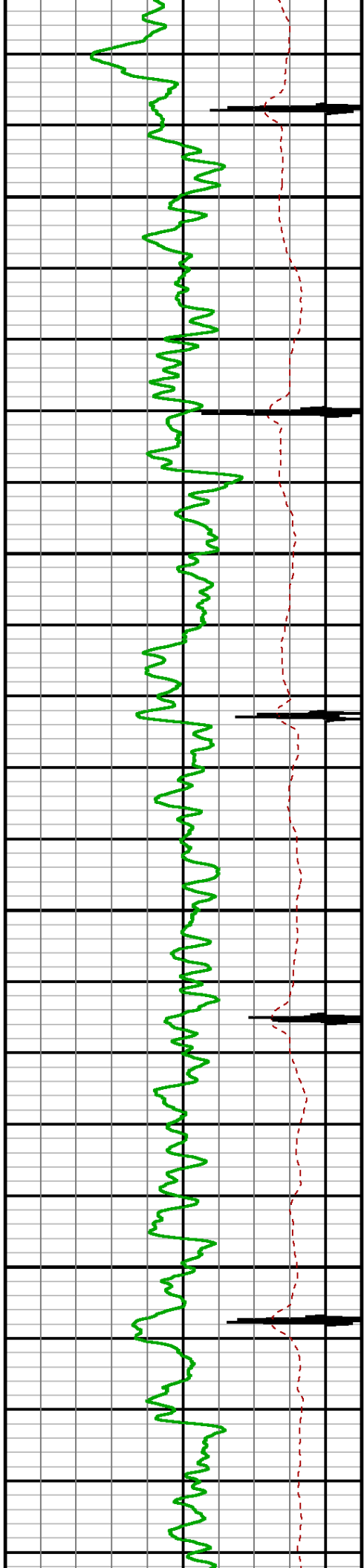
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VARIABLE DENSI

200 us 1200

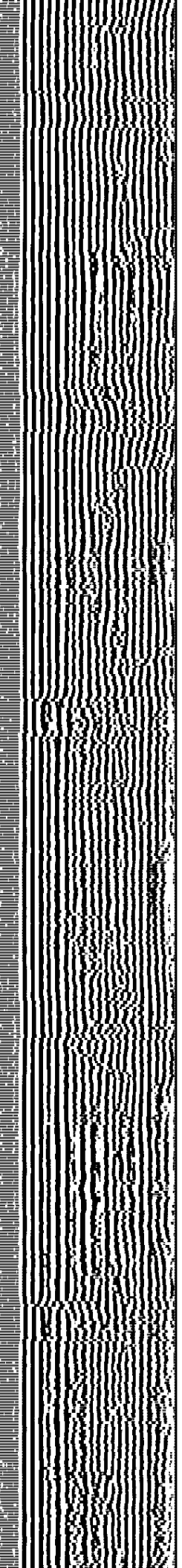
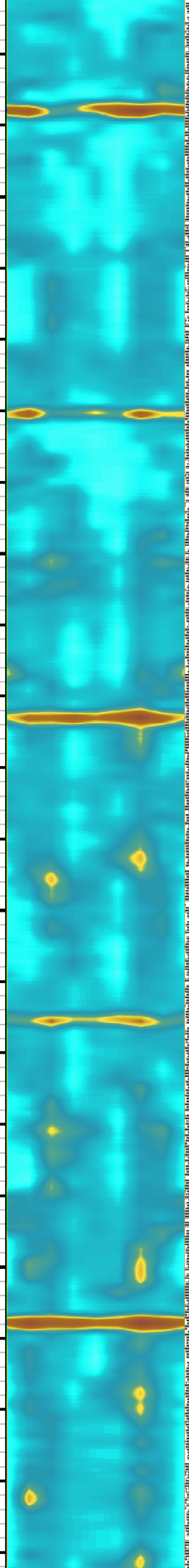
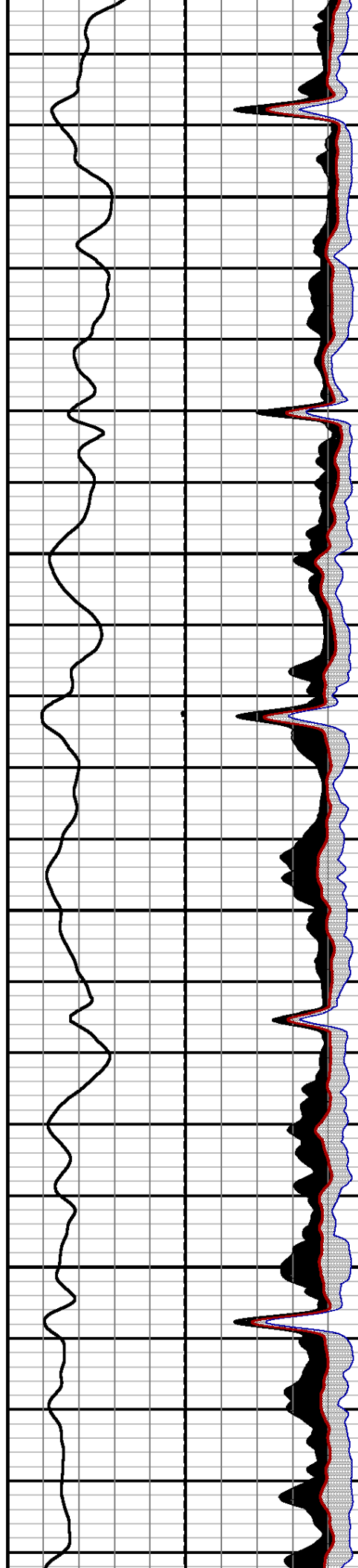


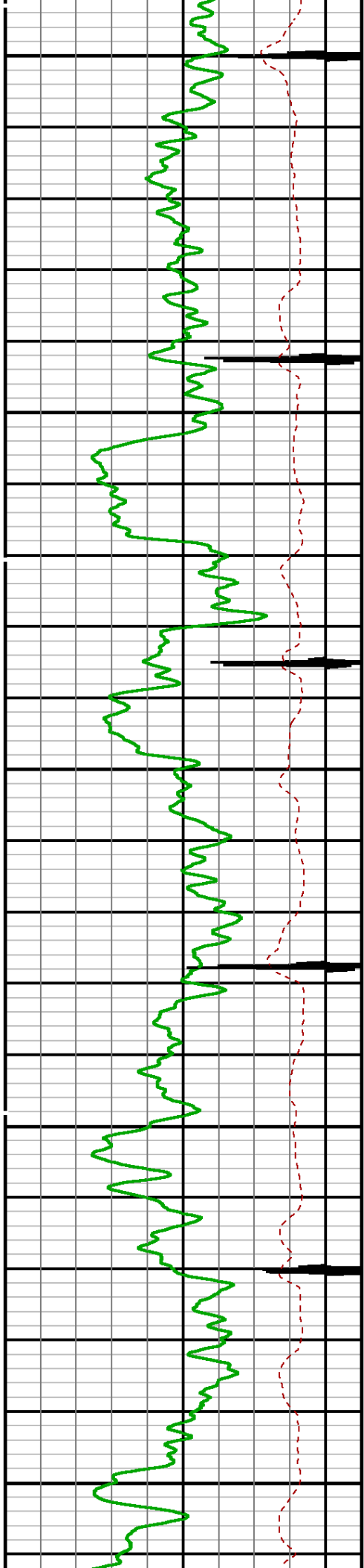




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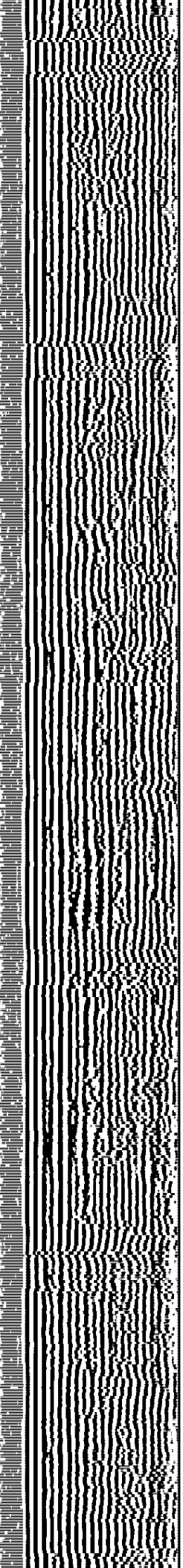
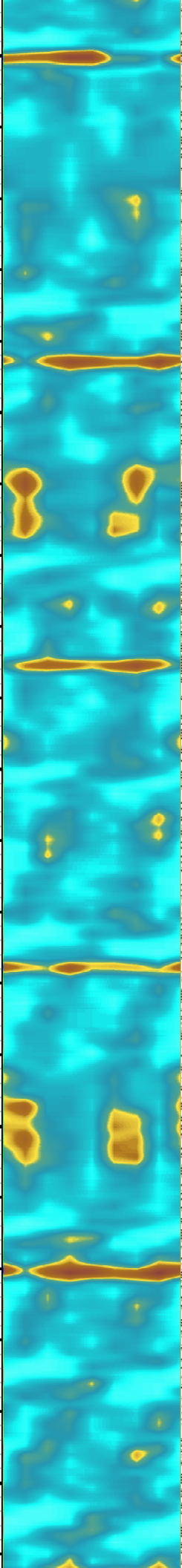
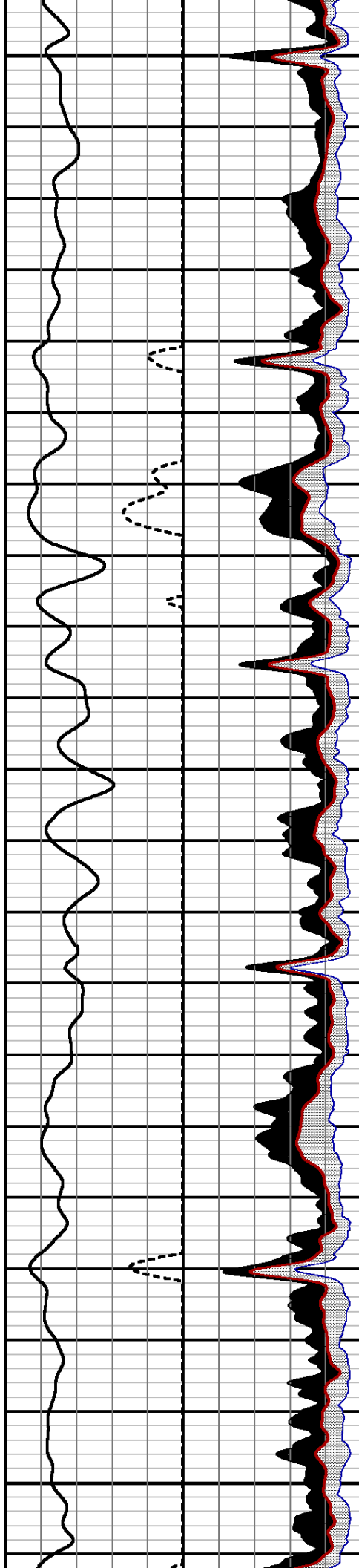
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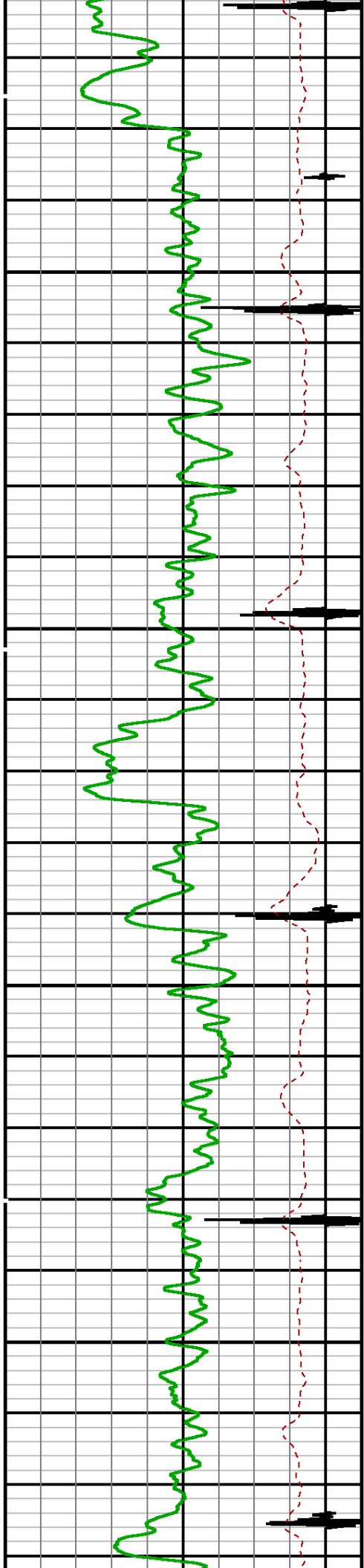




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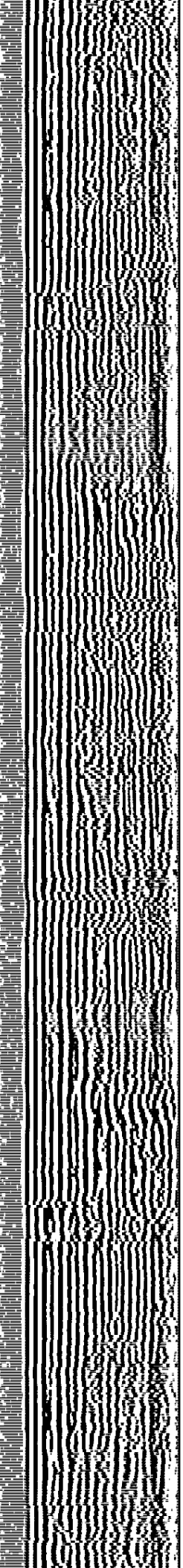
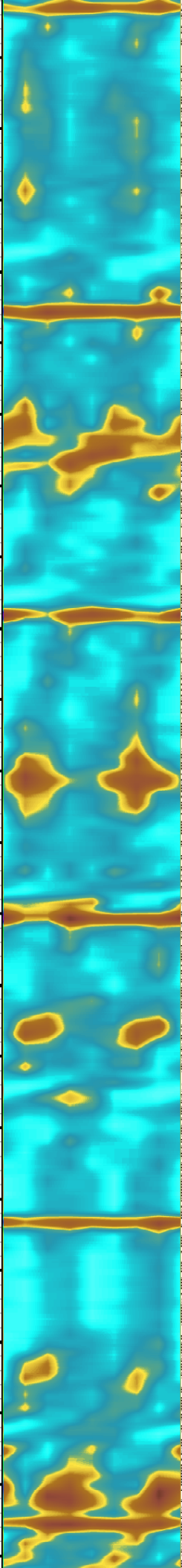
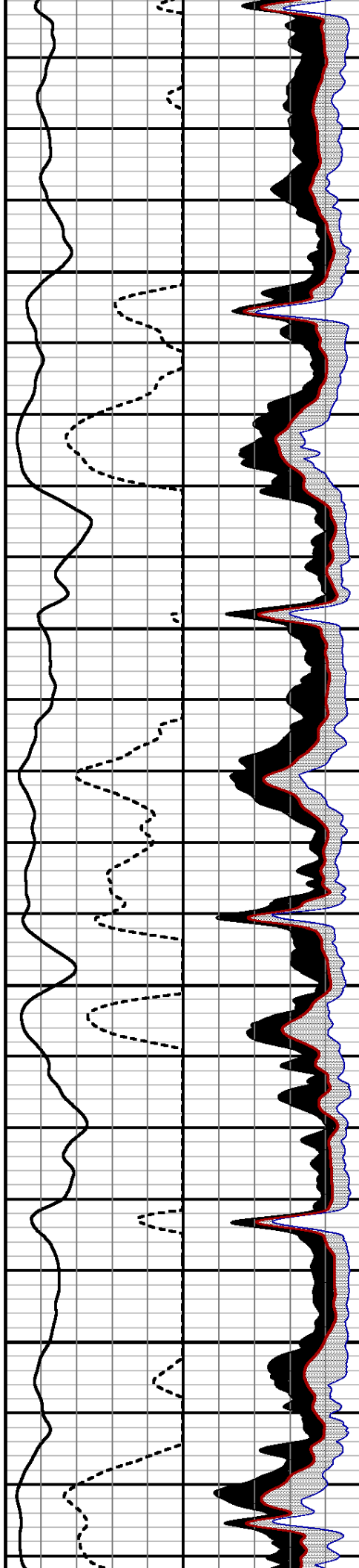
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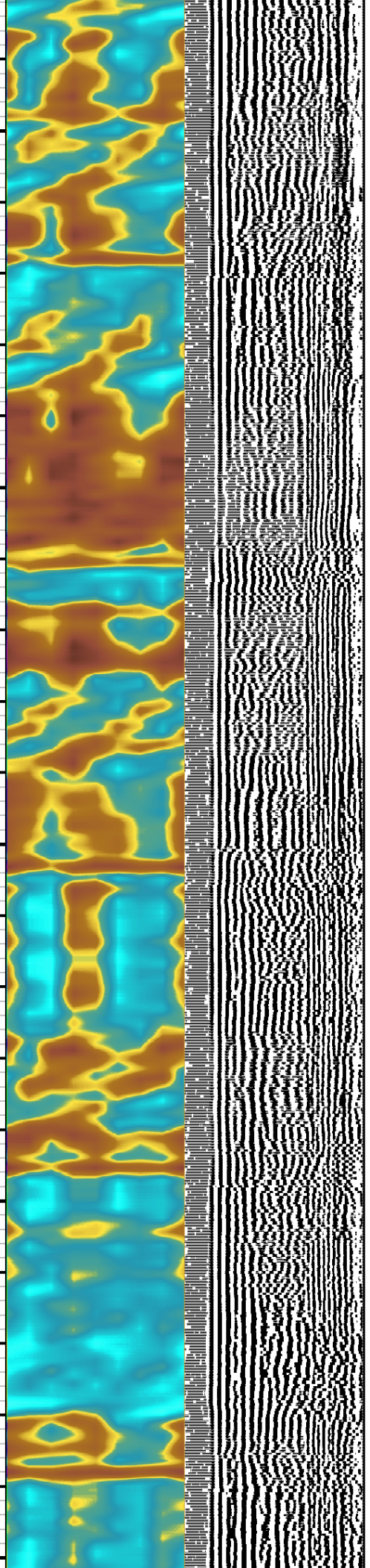
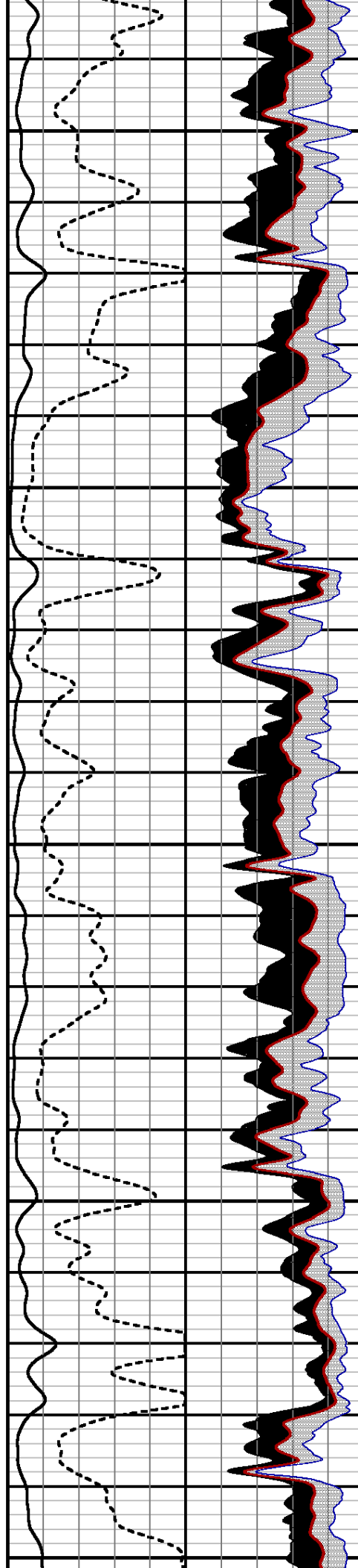
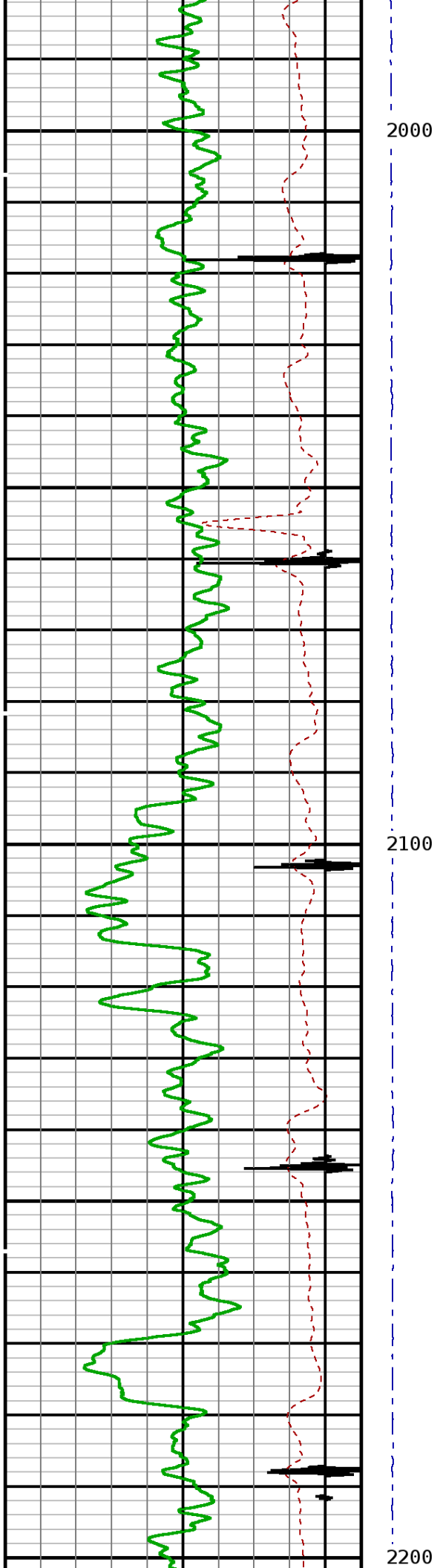


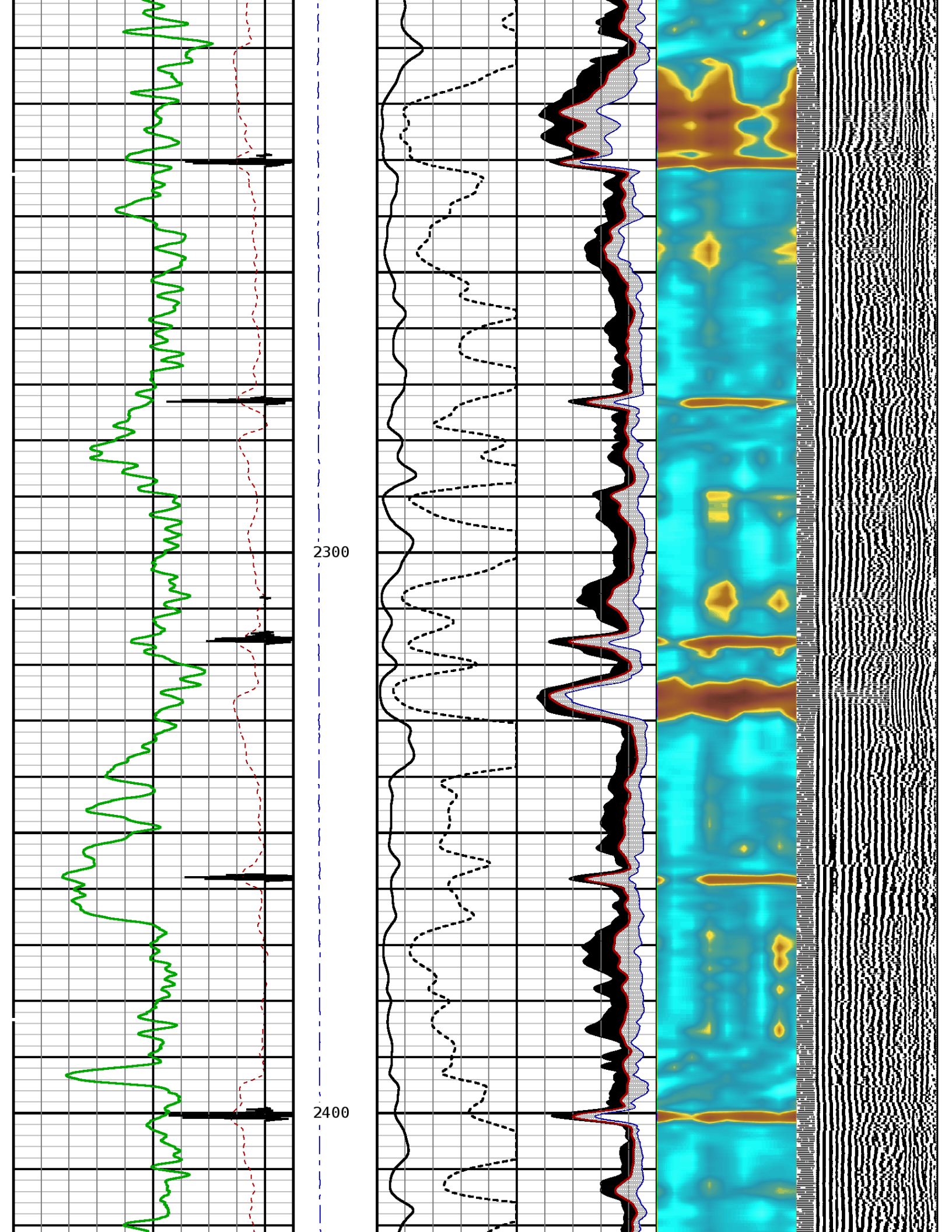


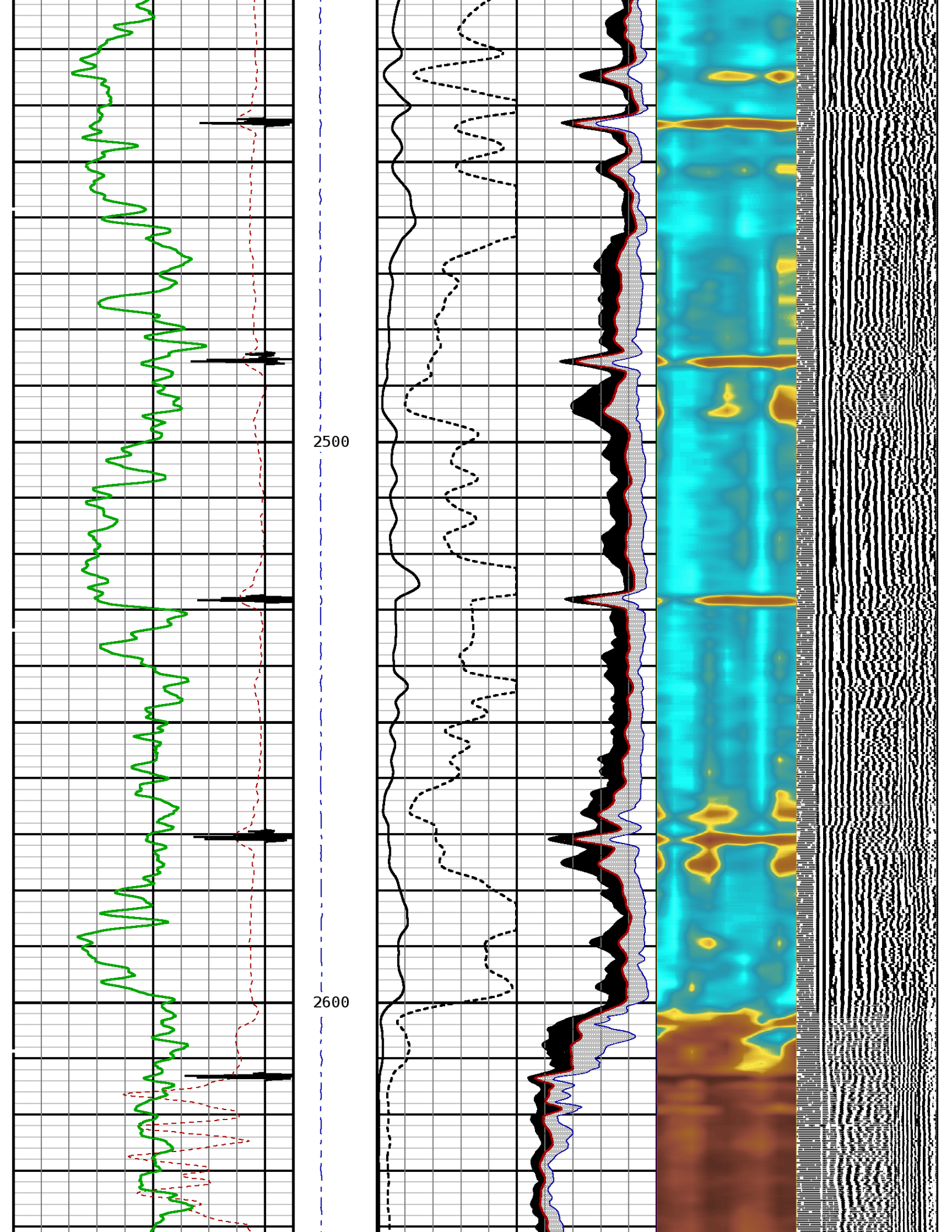
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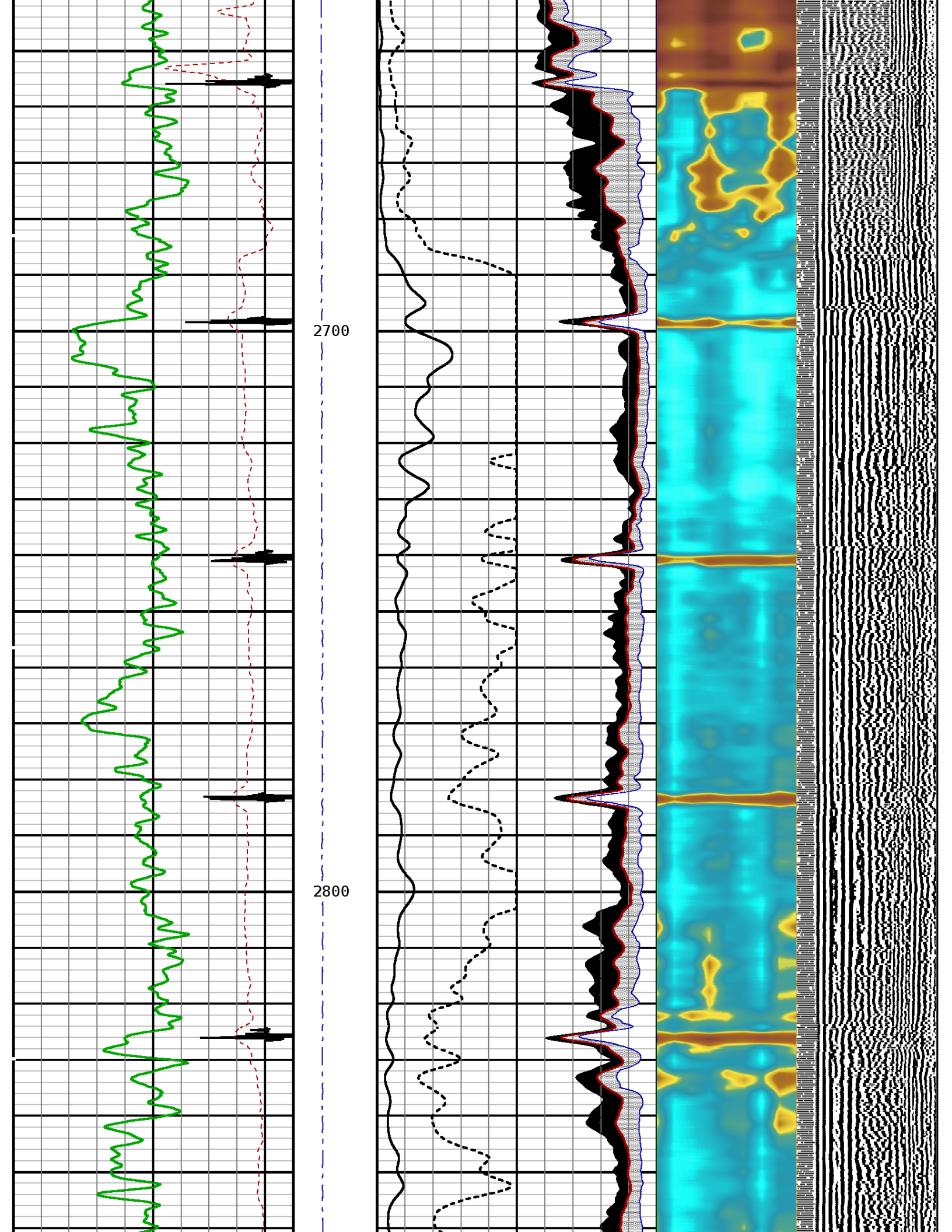
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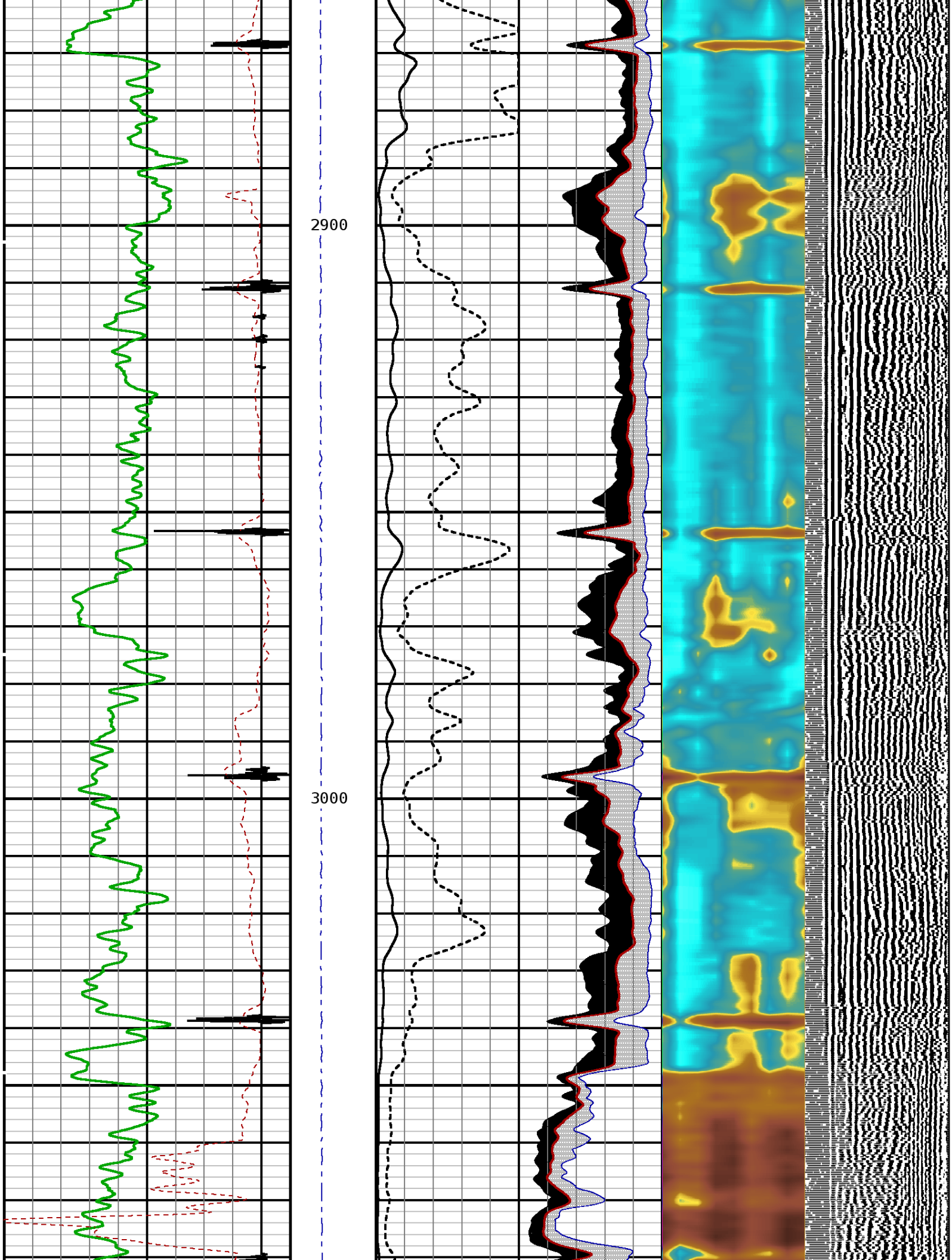


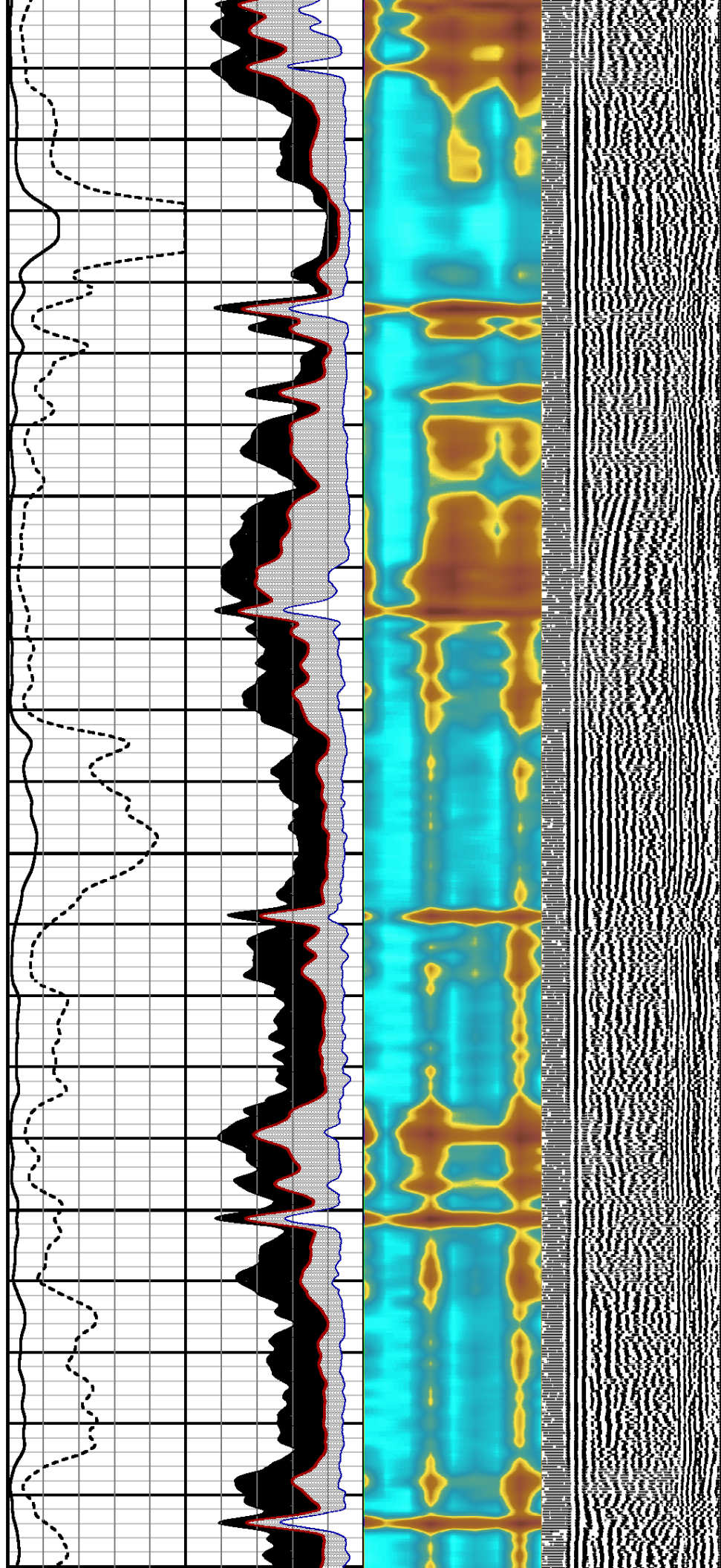
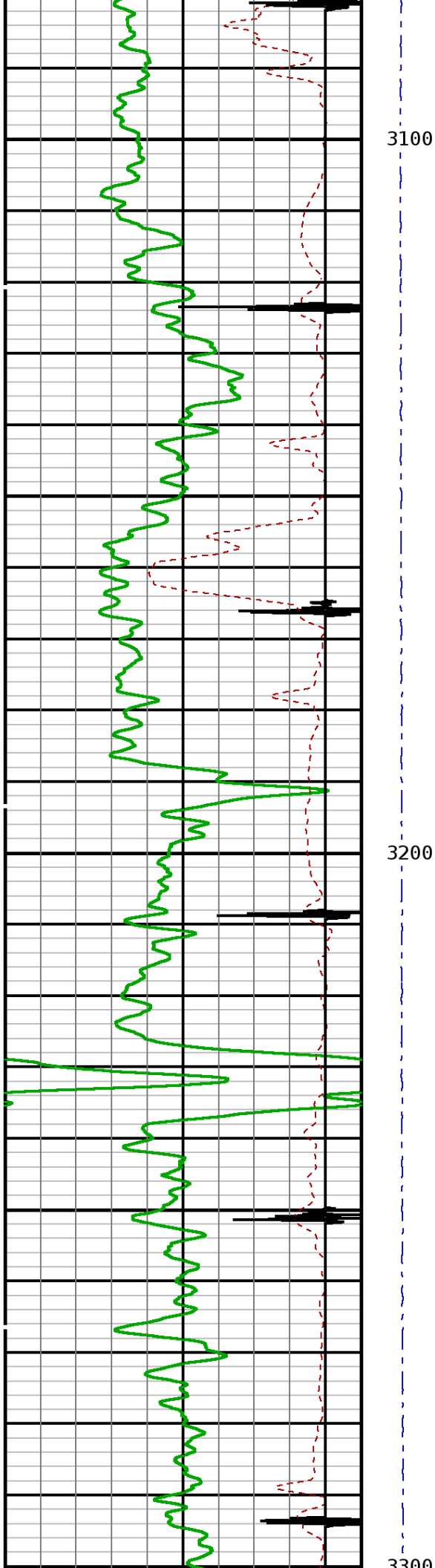


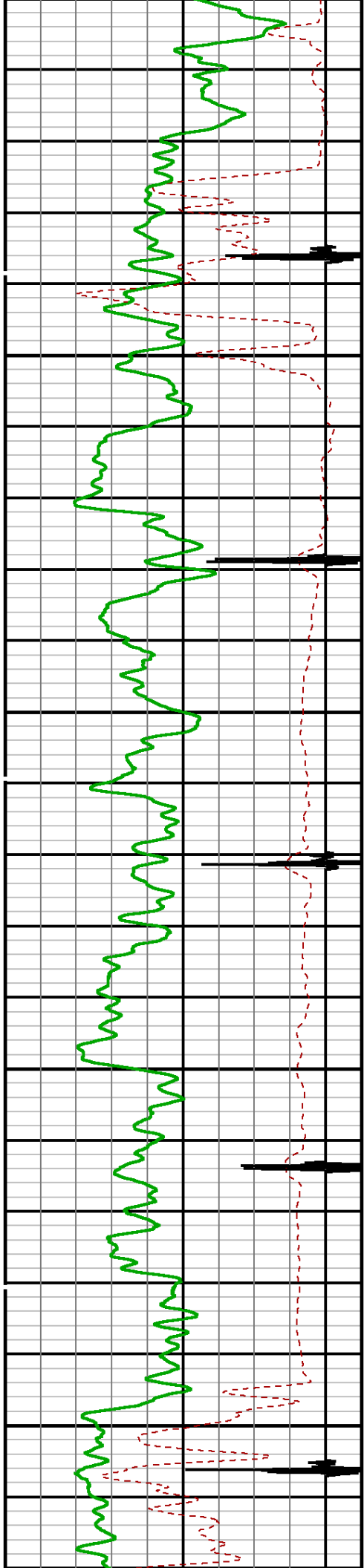




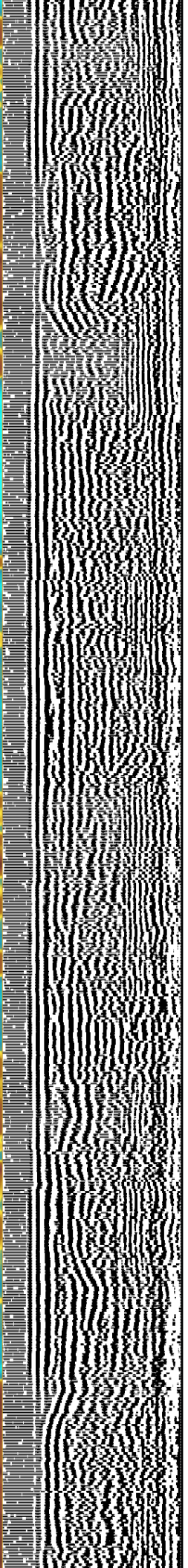
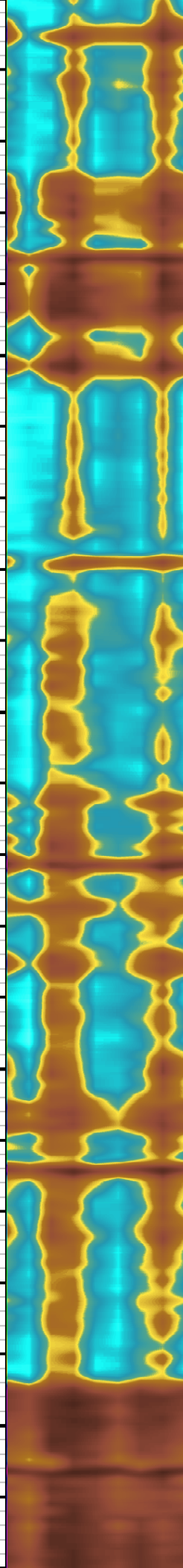
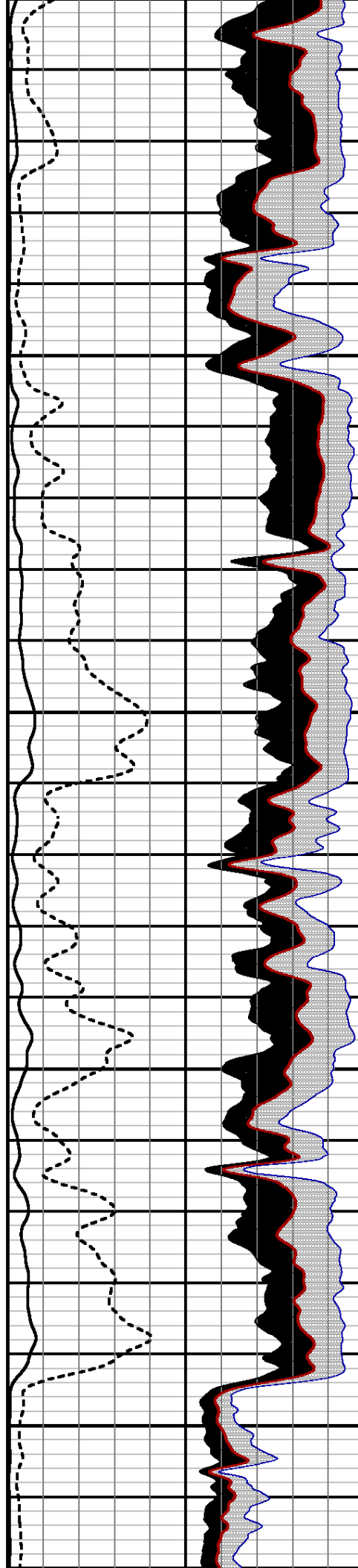


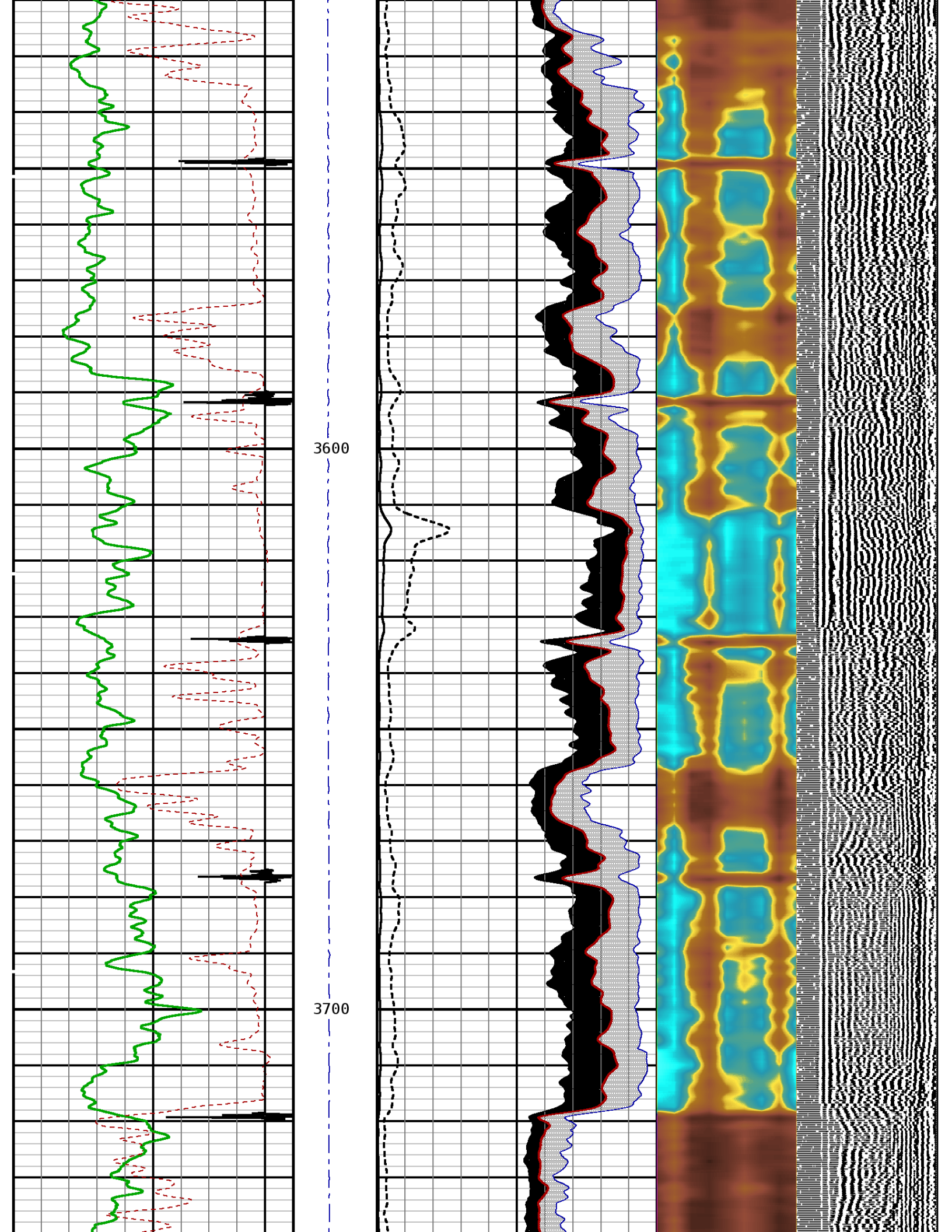


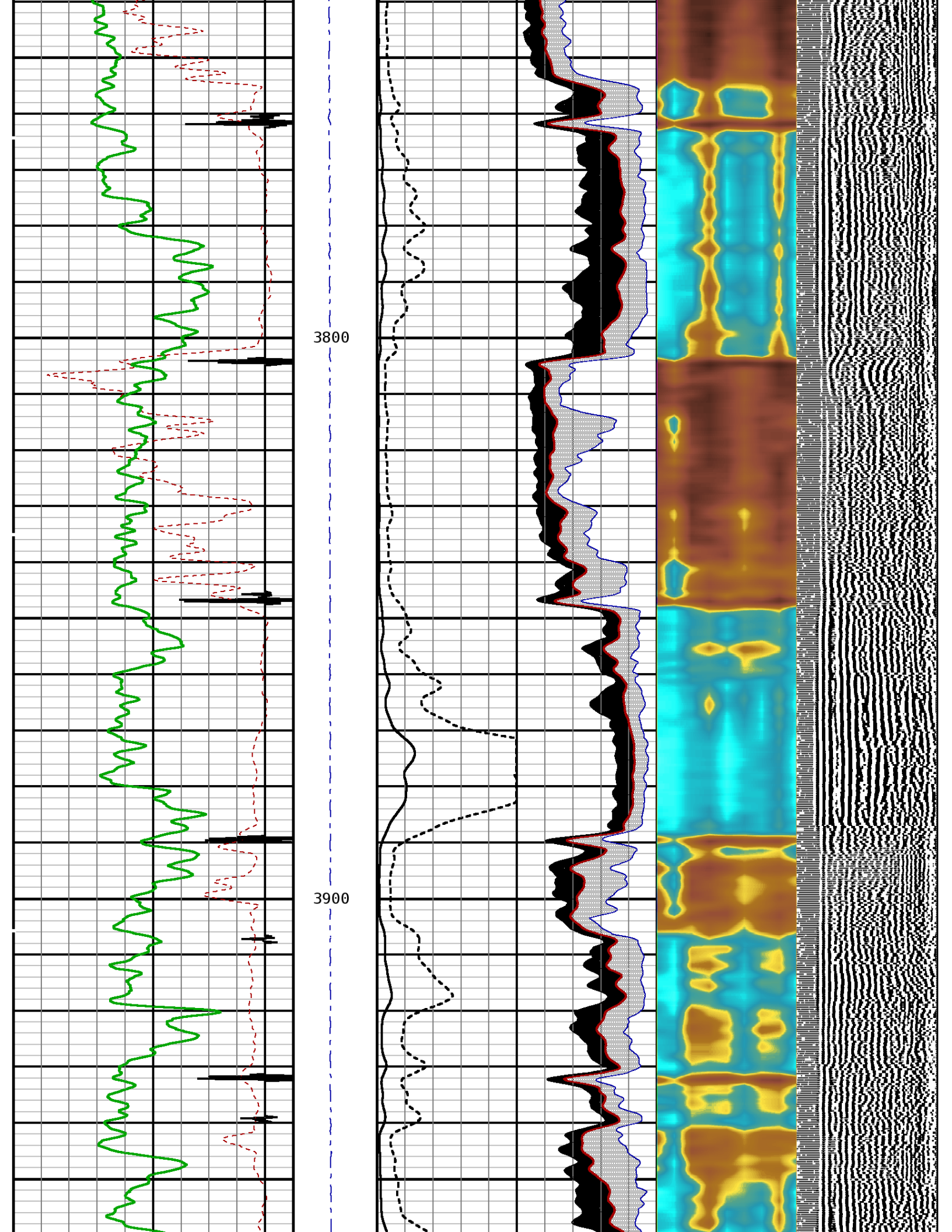


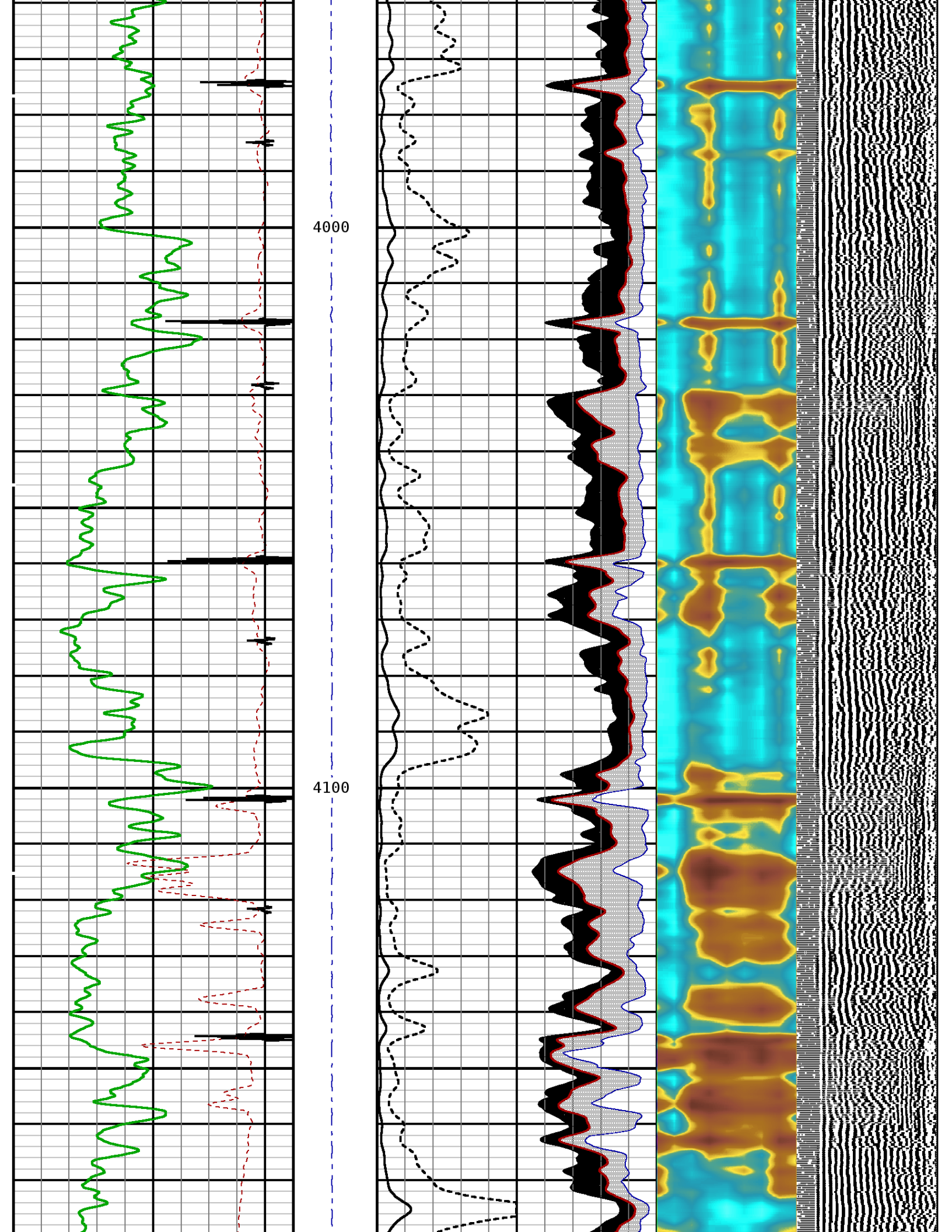


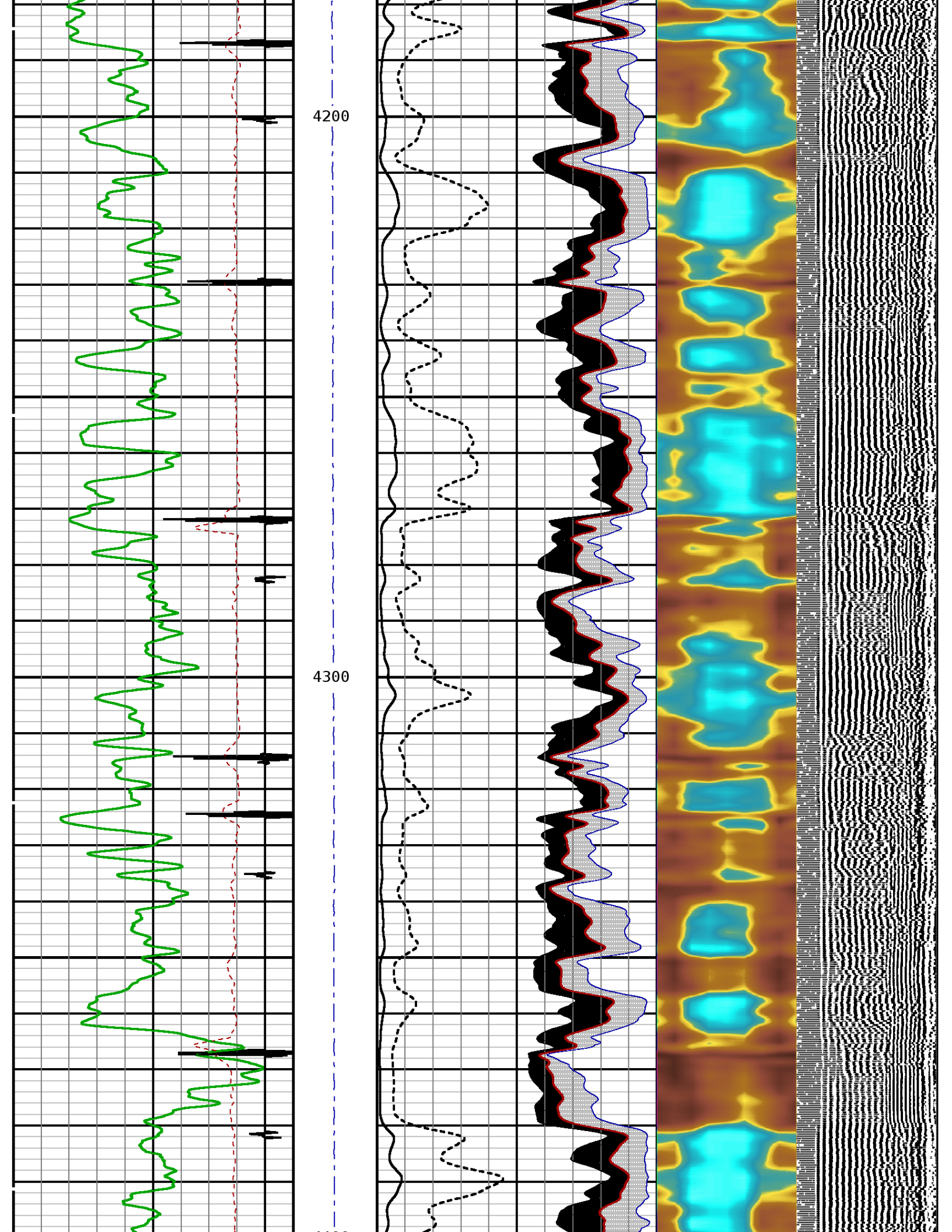
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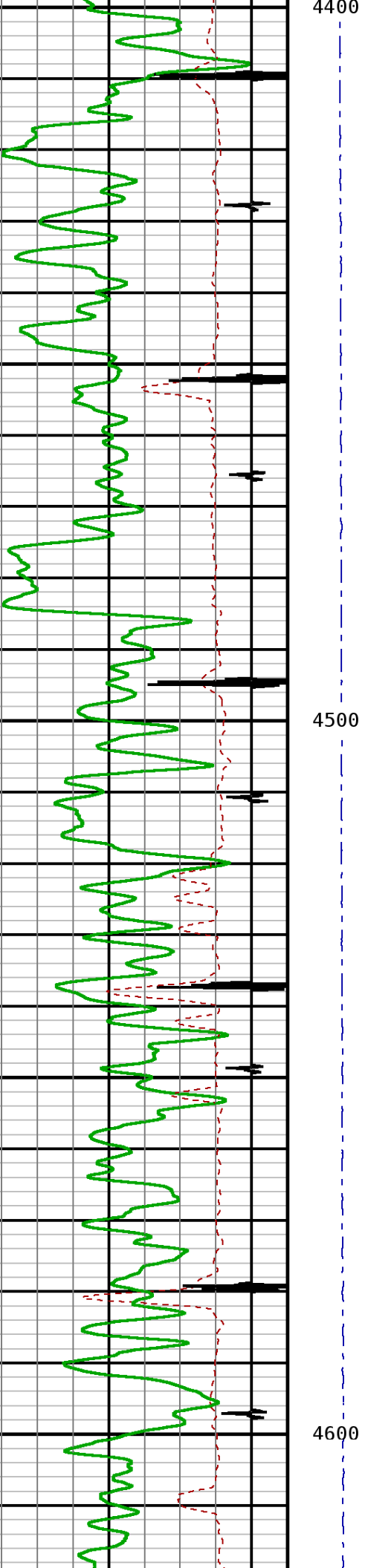
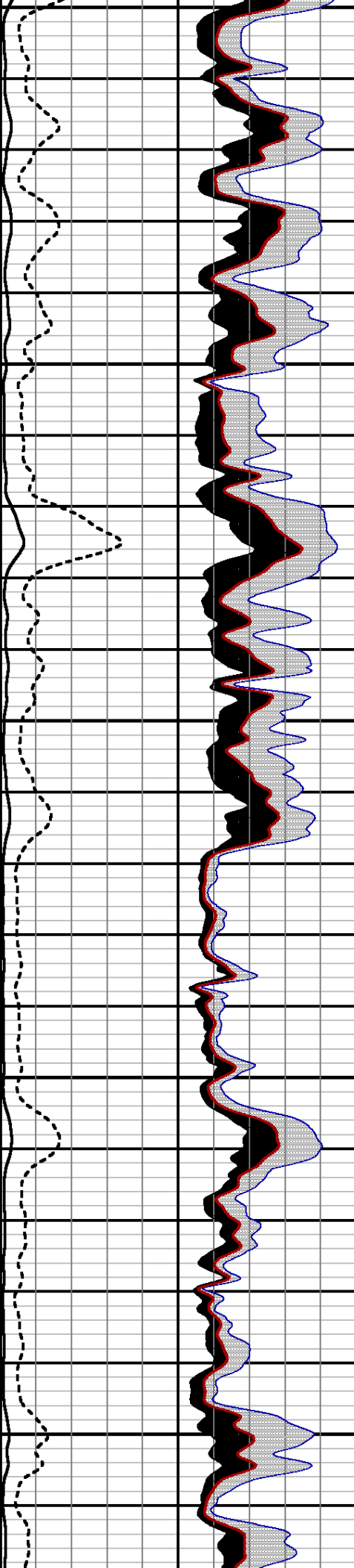
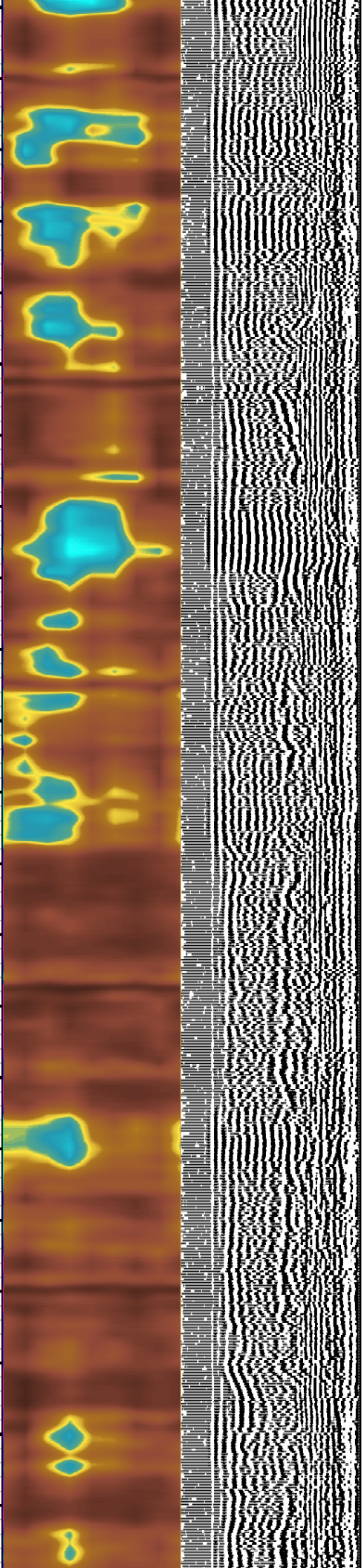


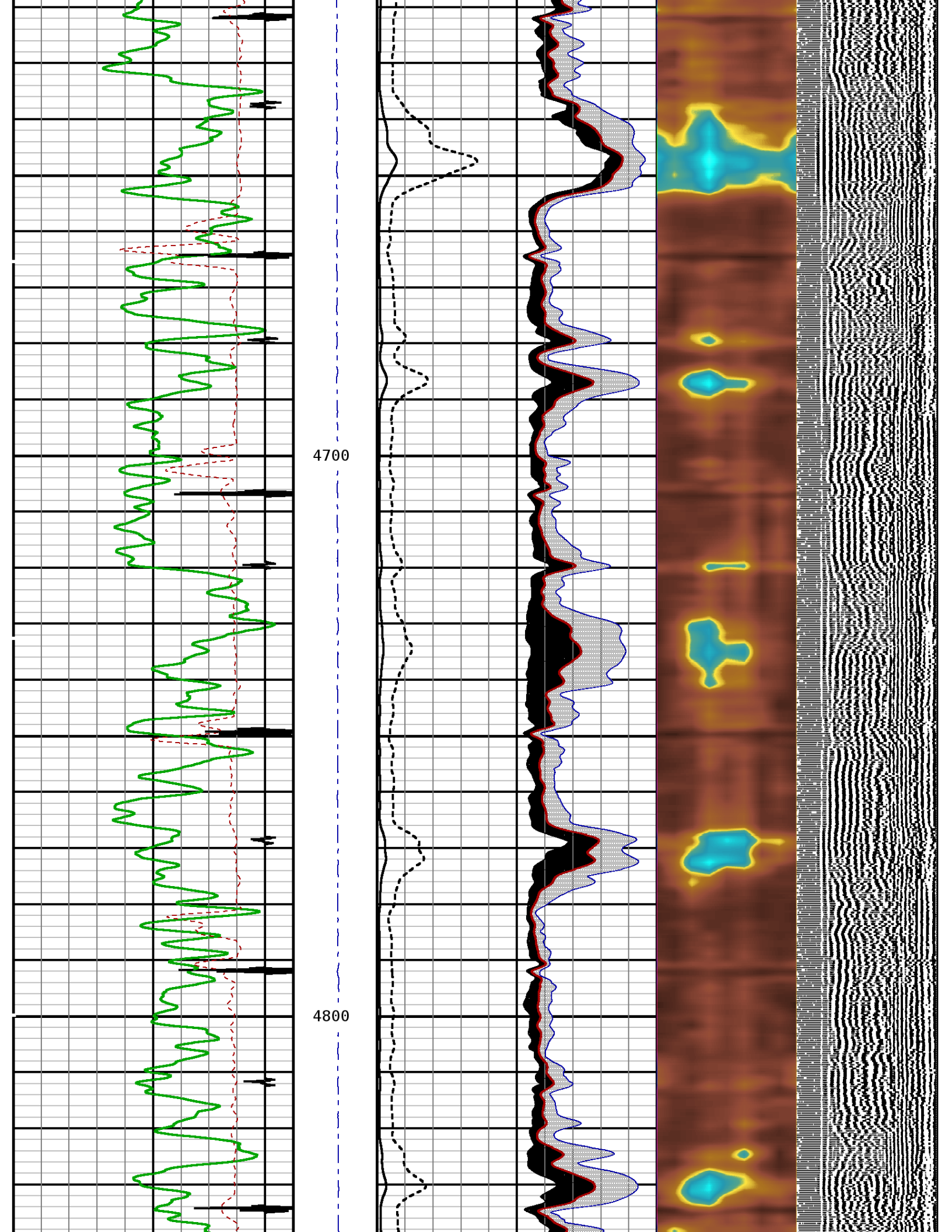


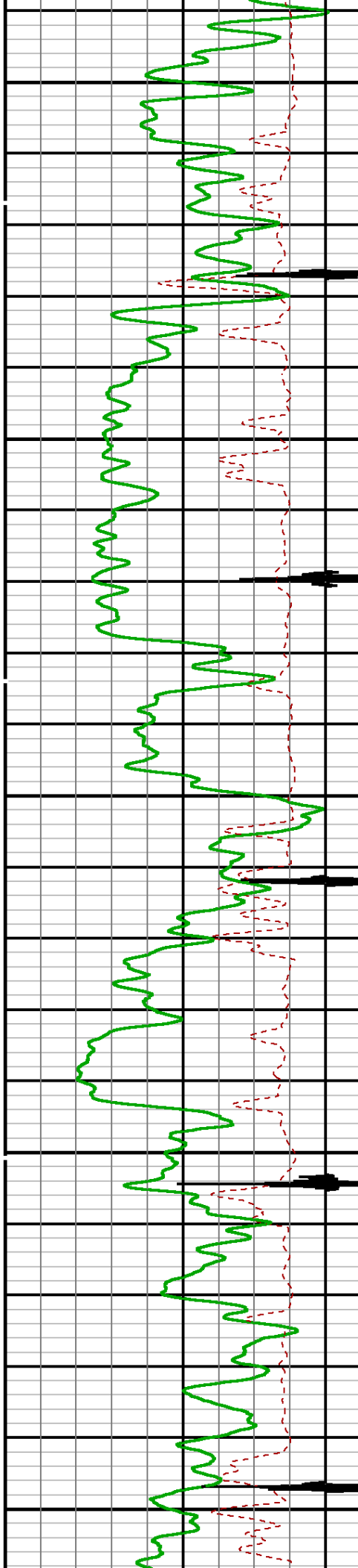






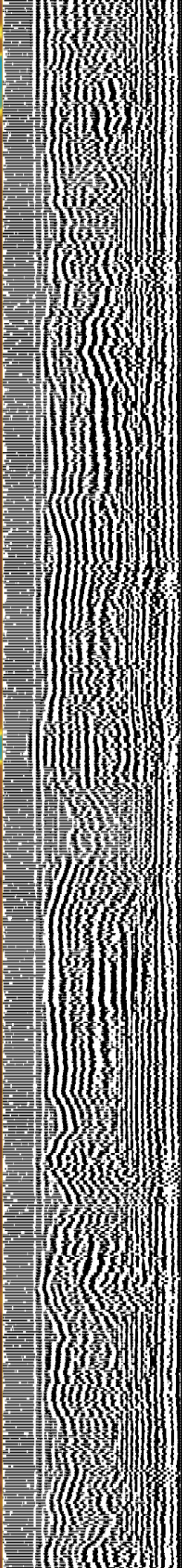
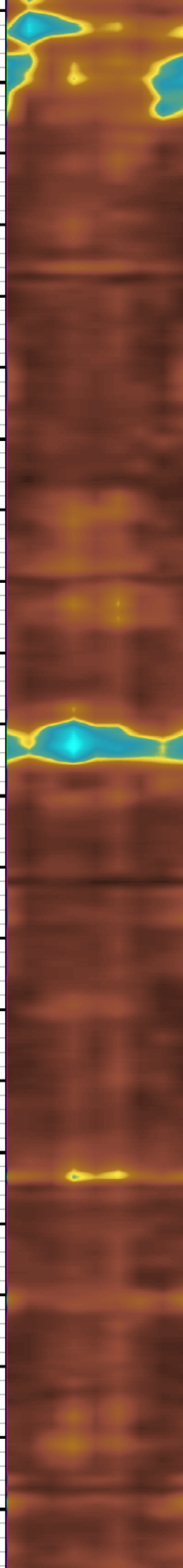
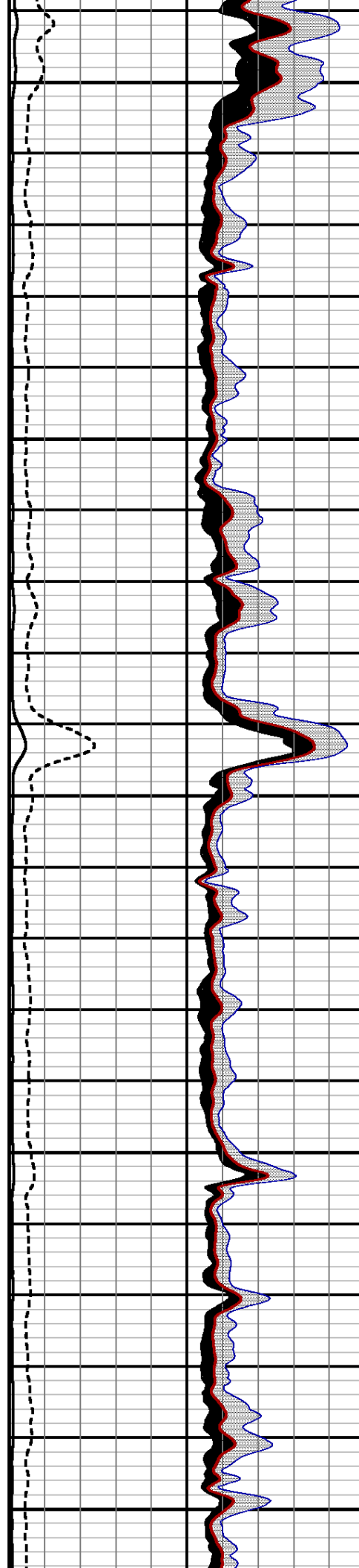


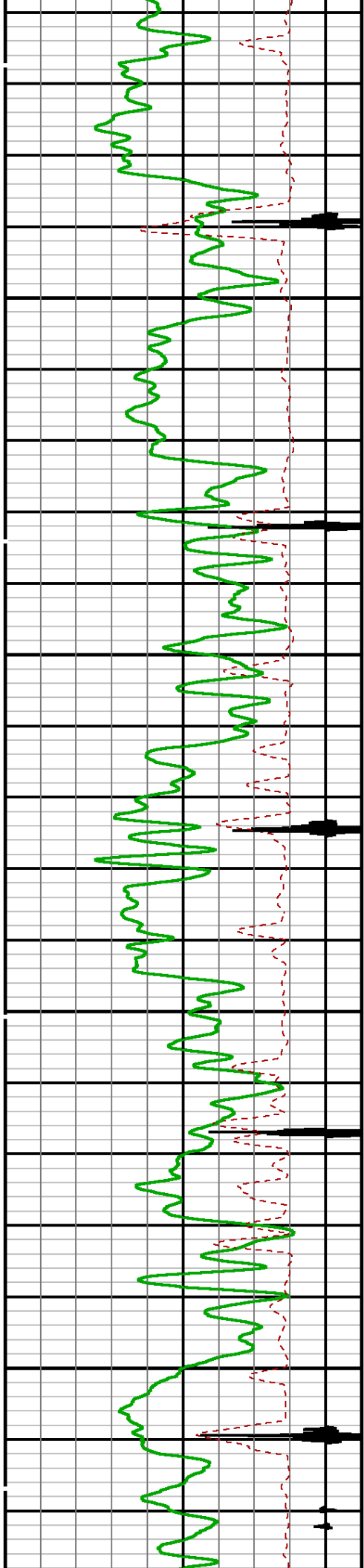




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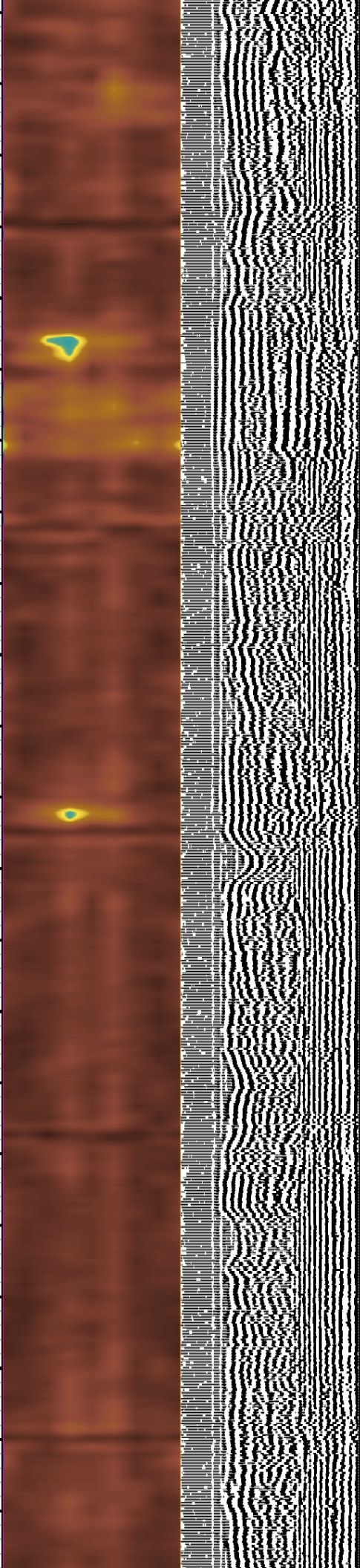
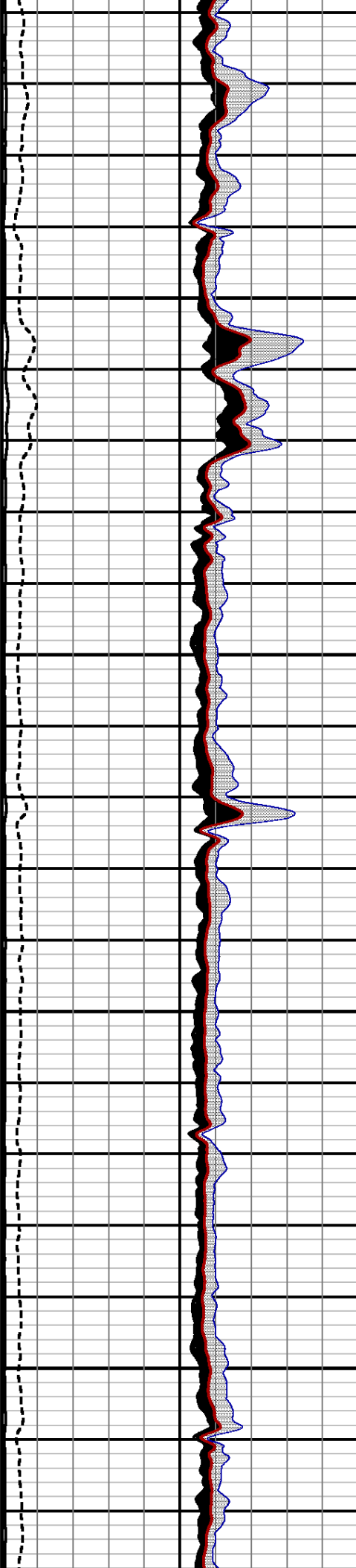
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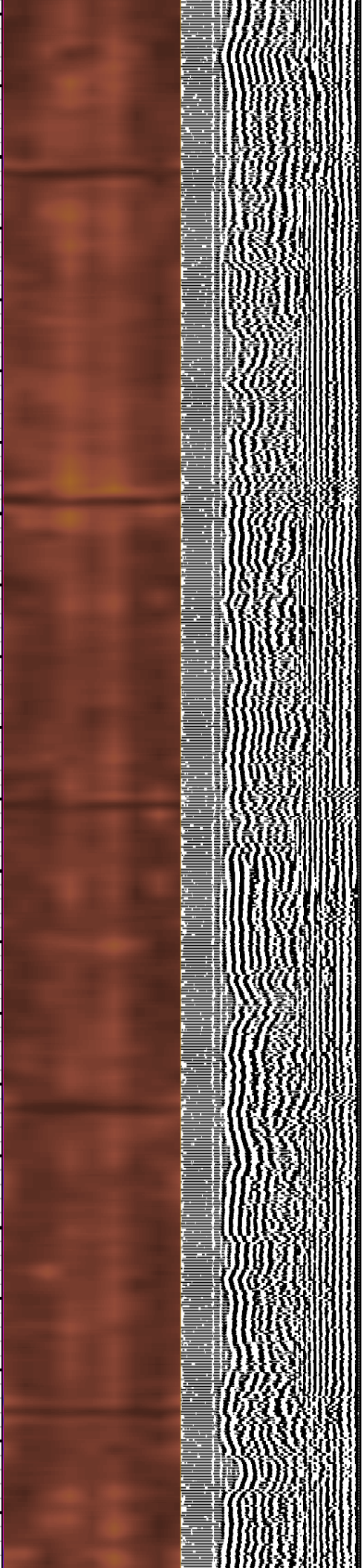
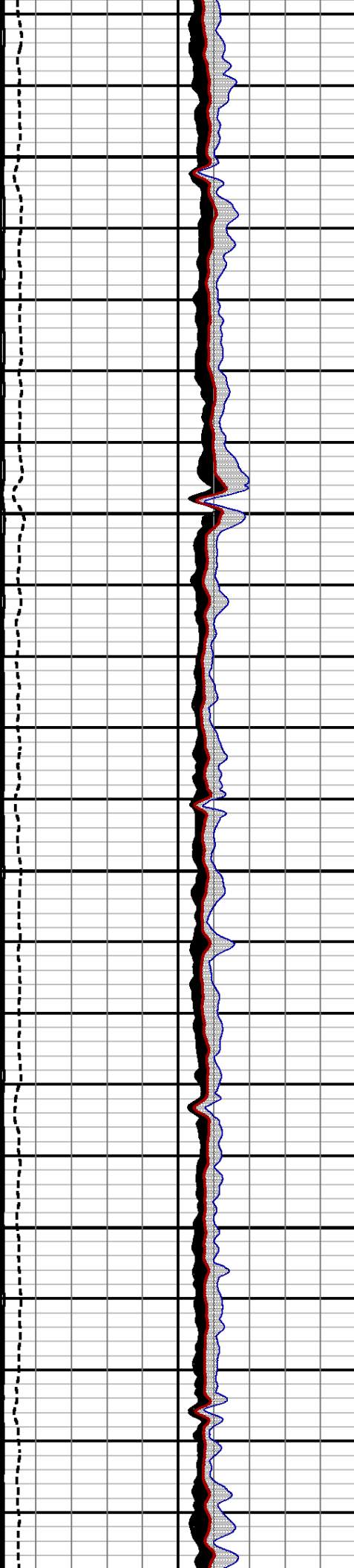
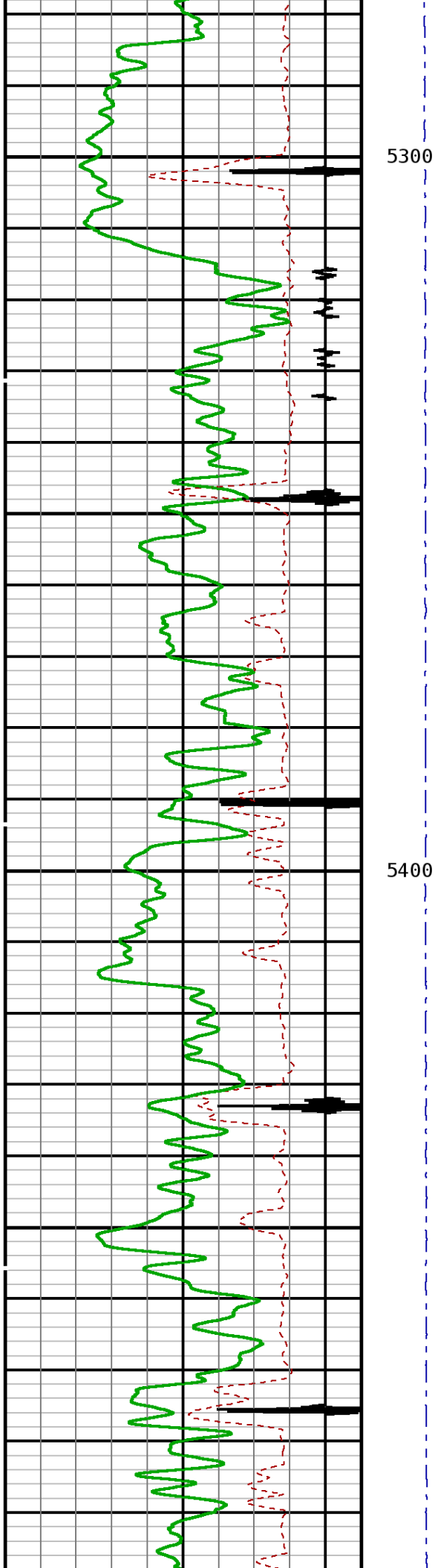


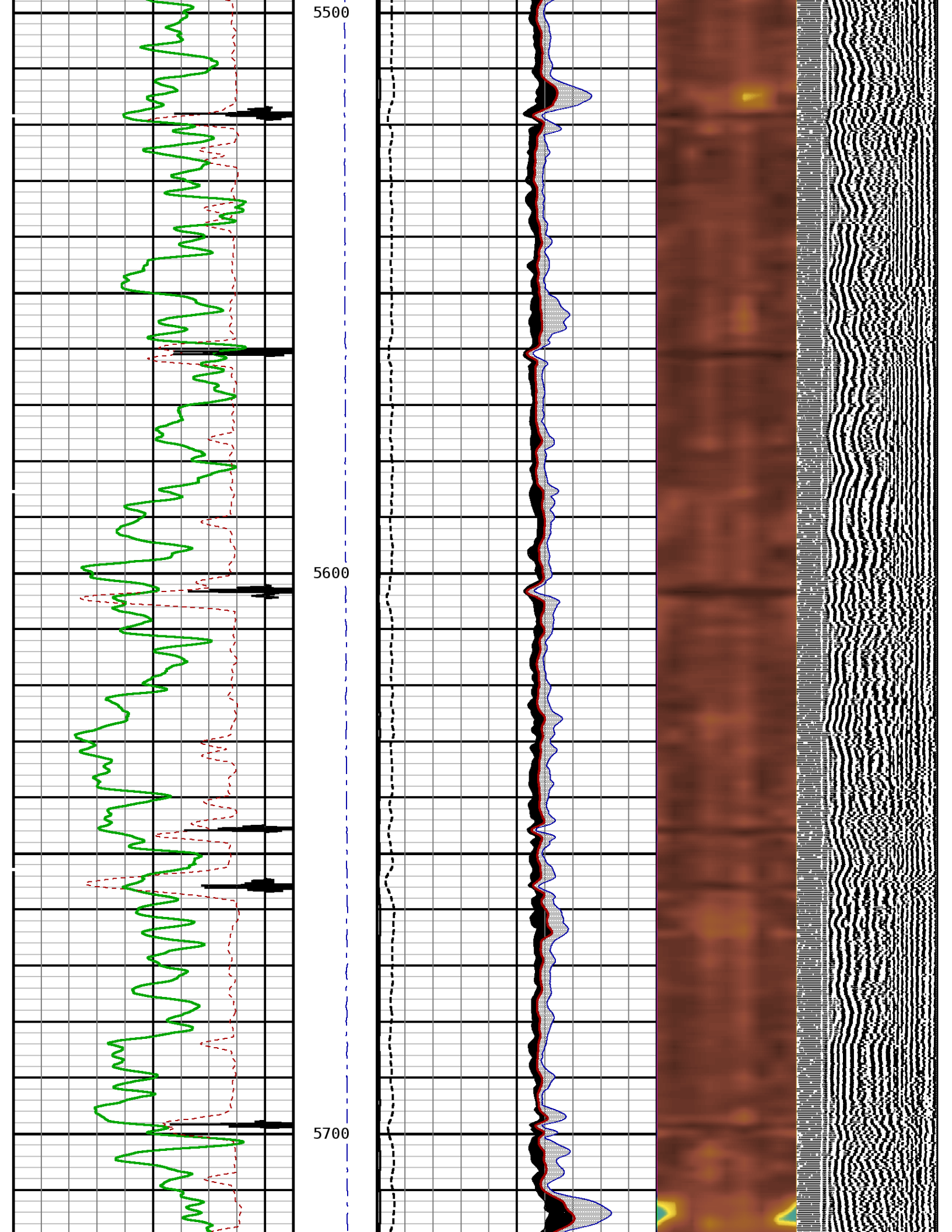


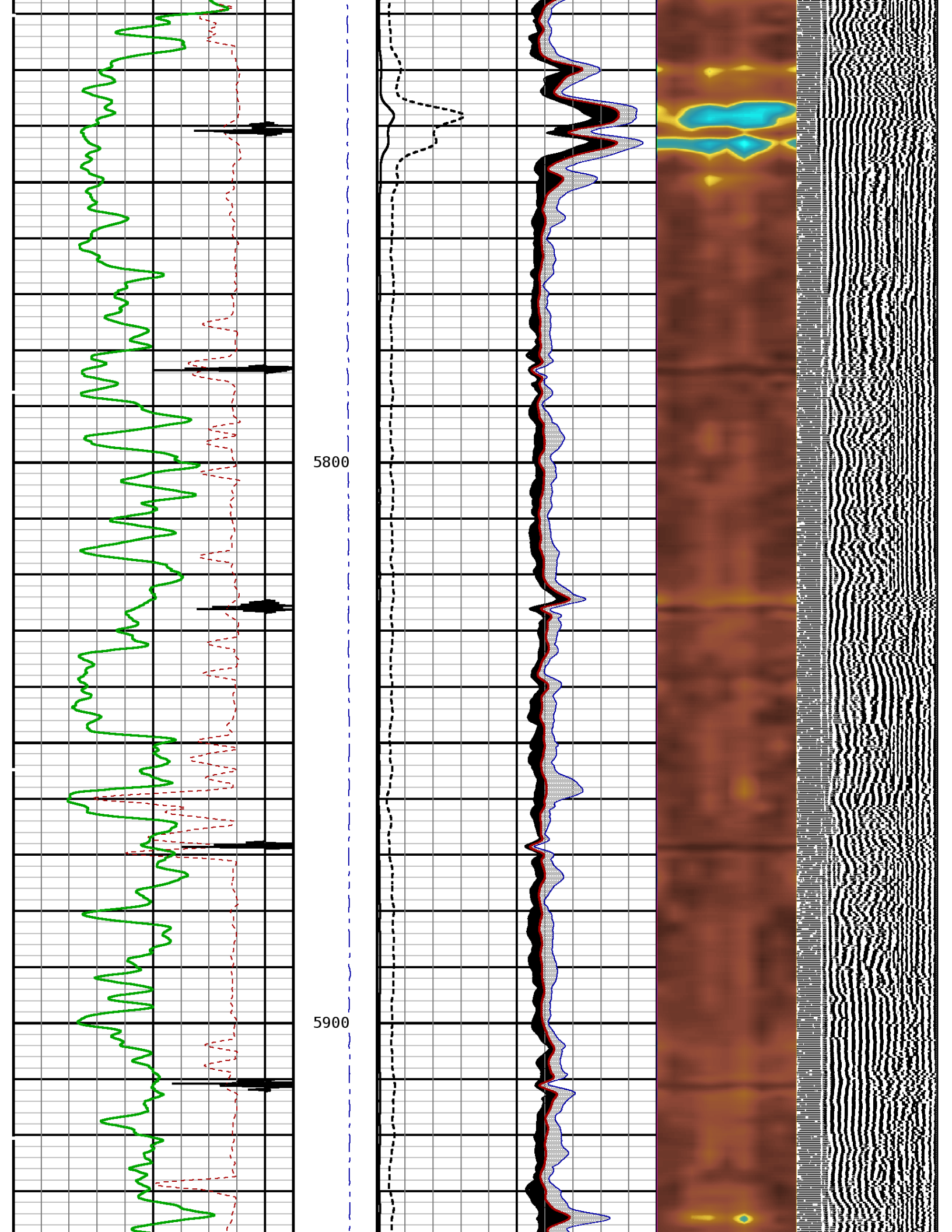
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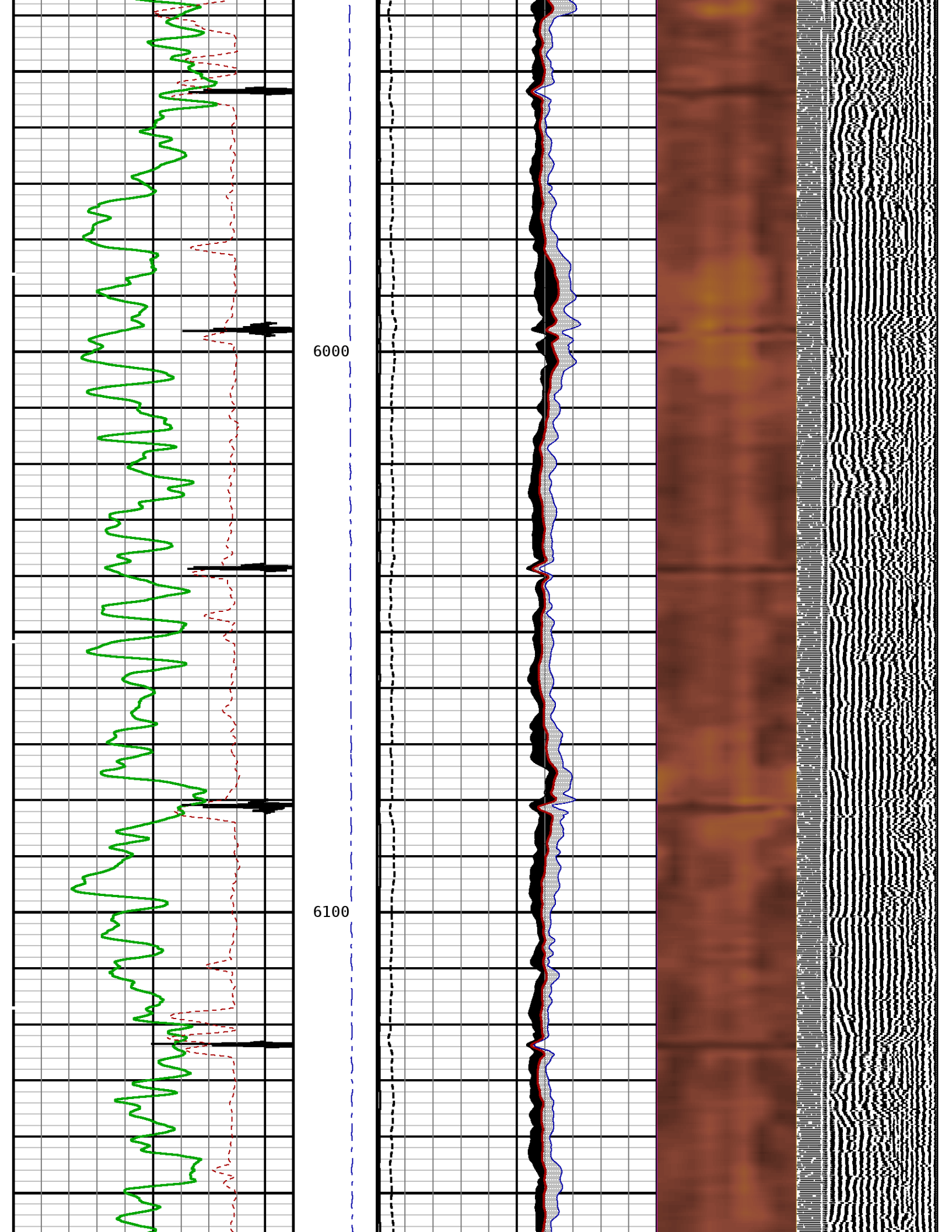
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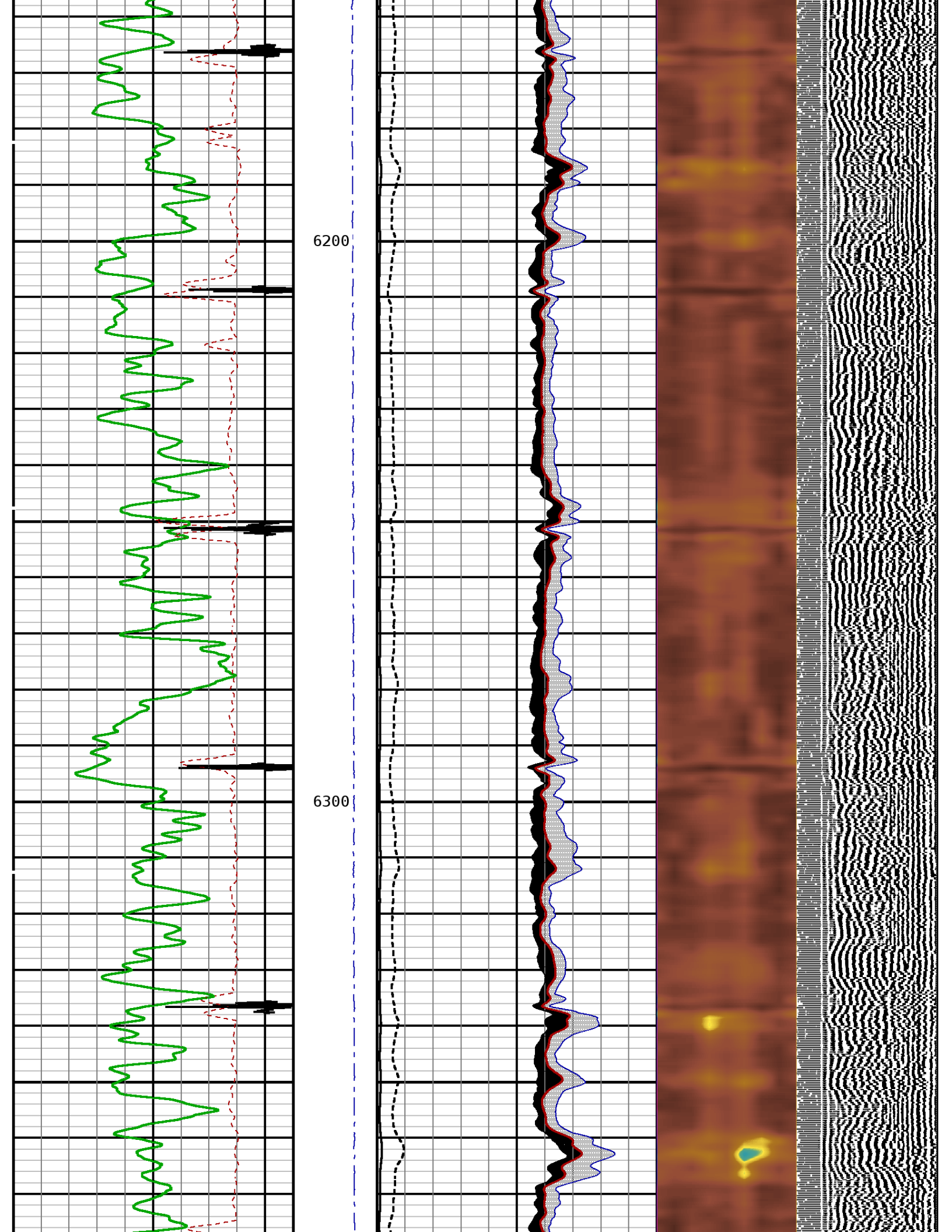


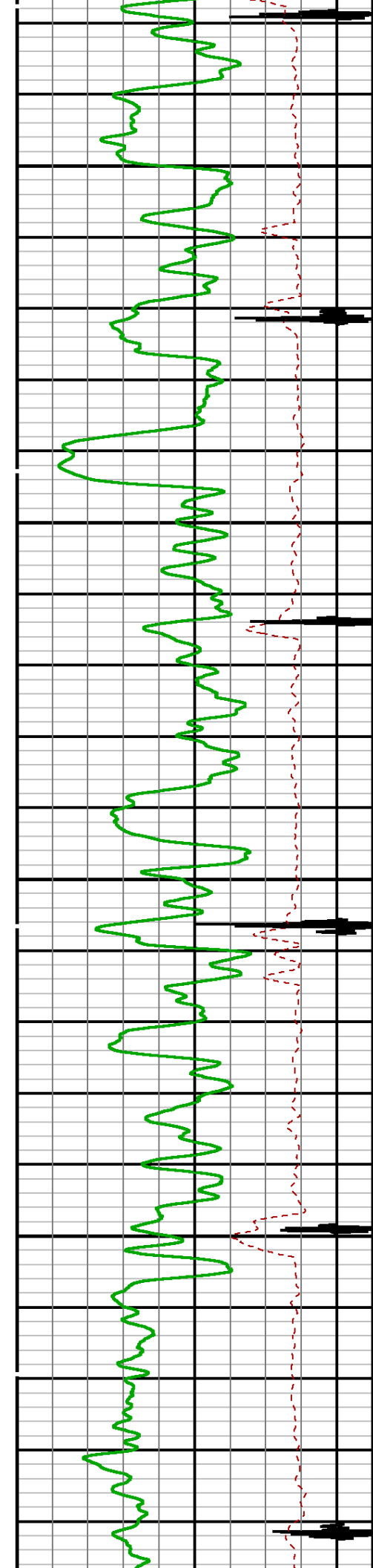






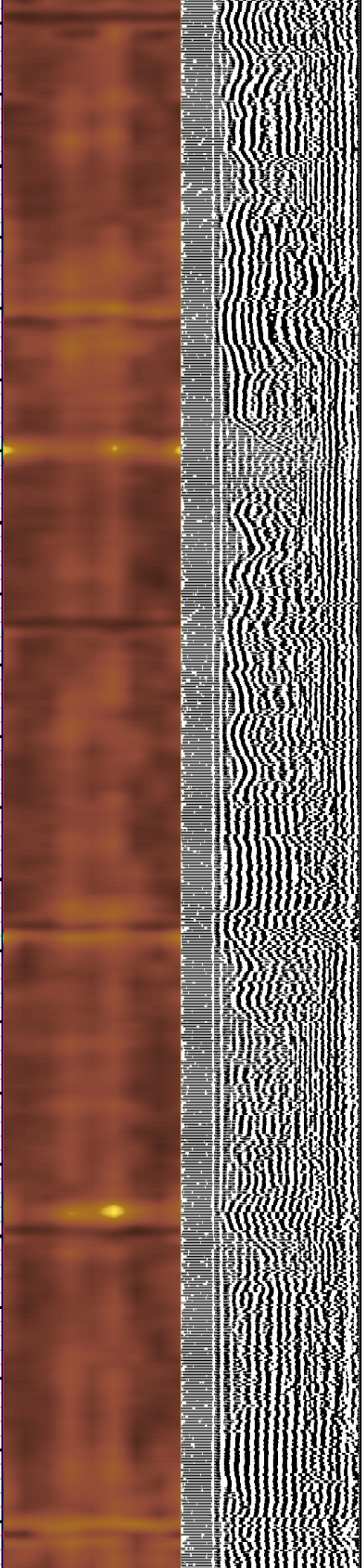
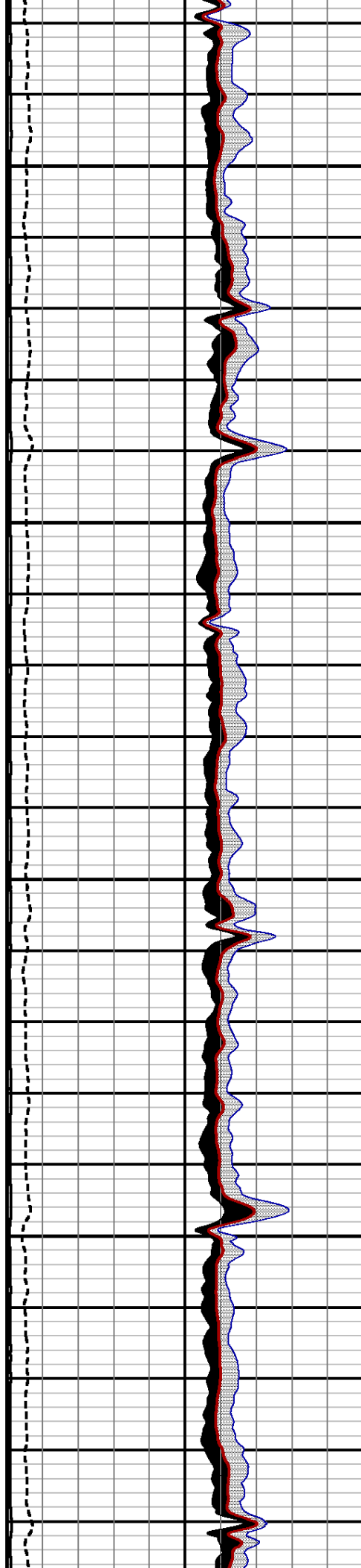


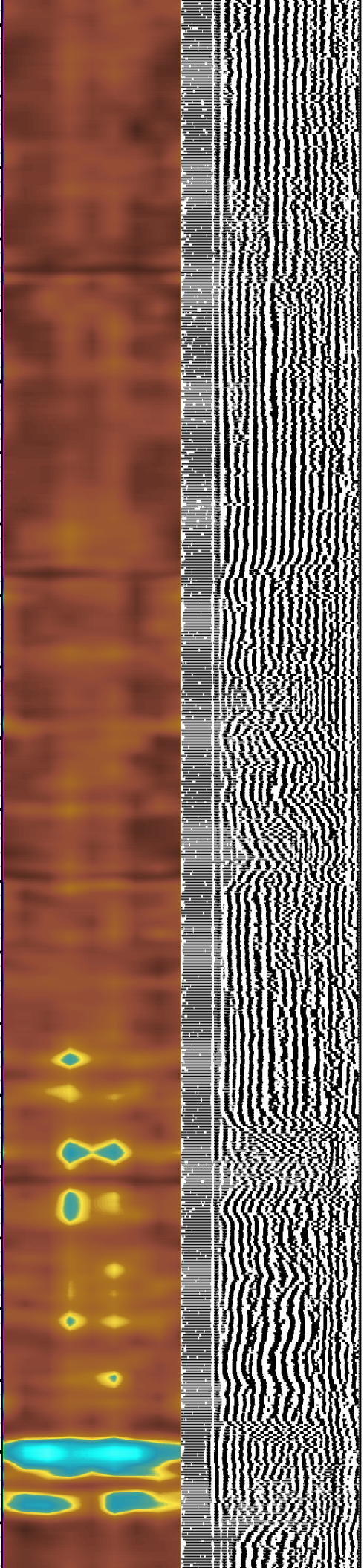
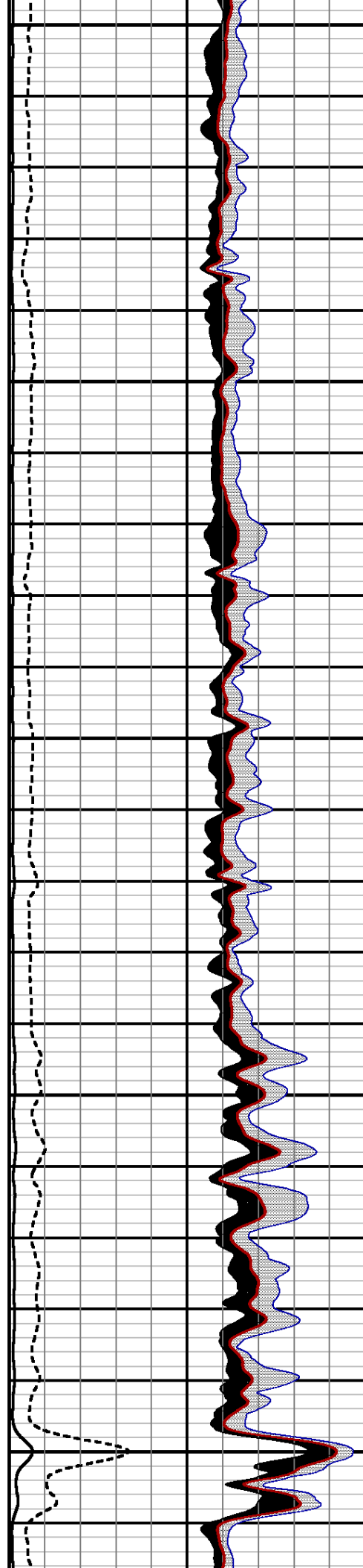
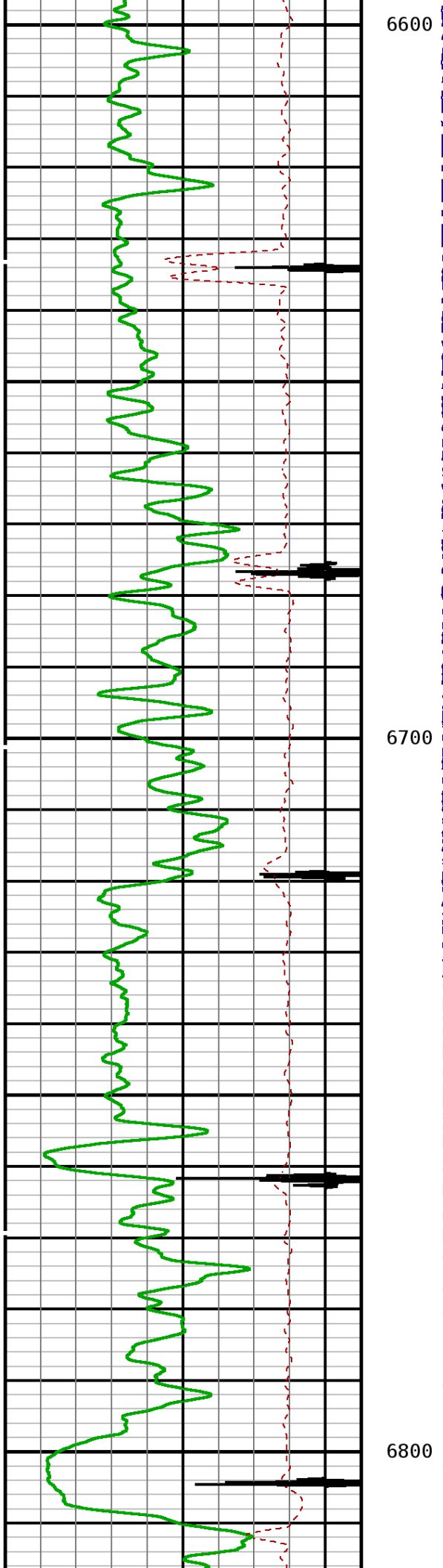


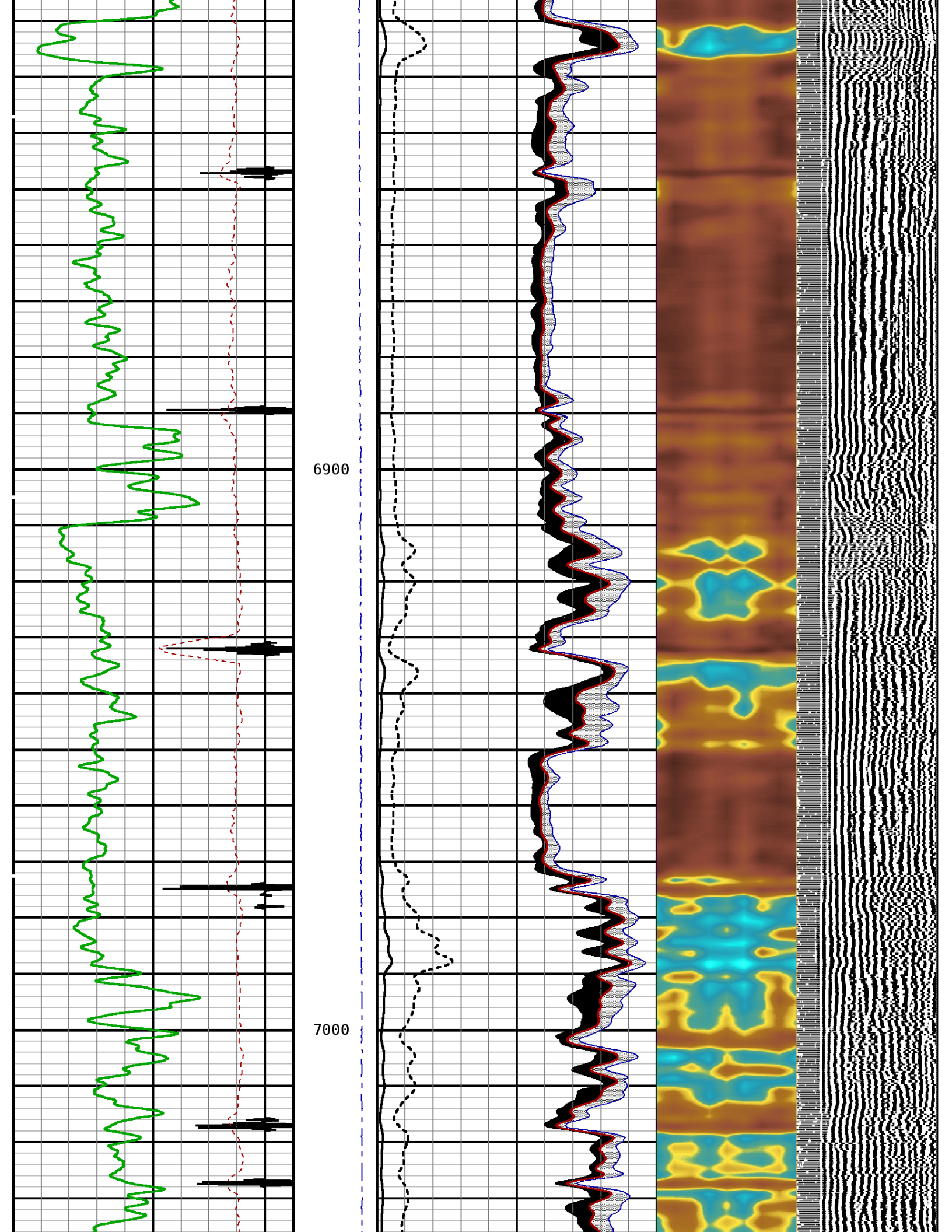


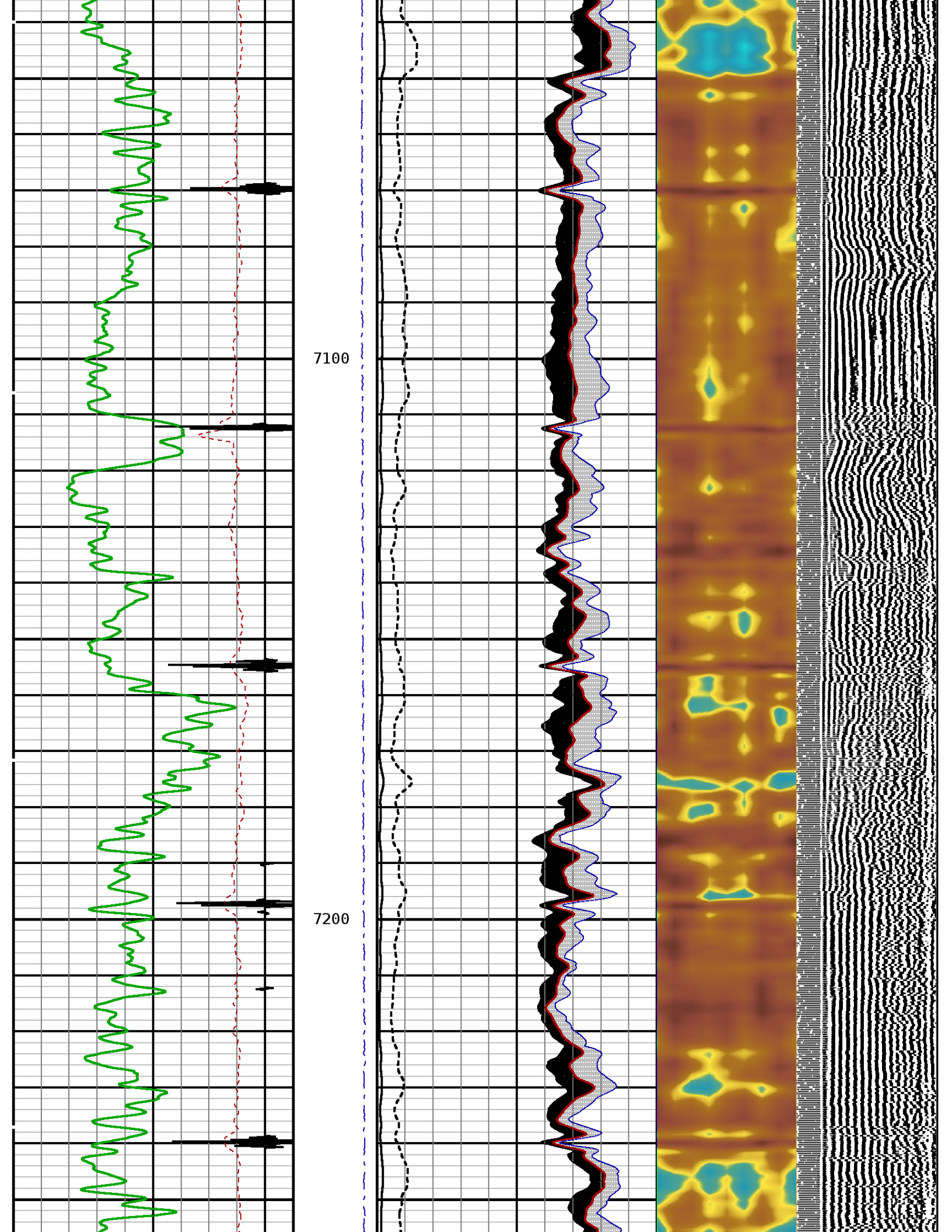
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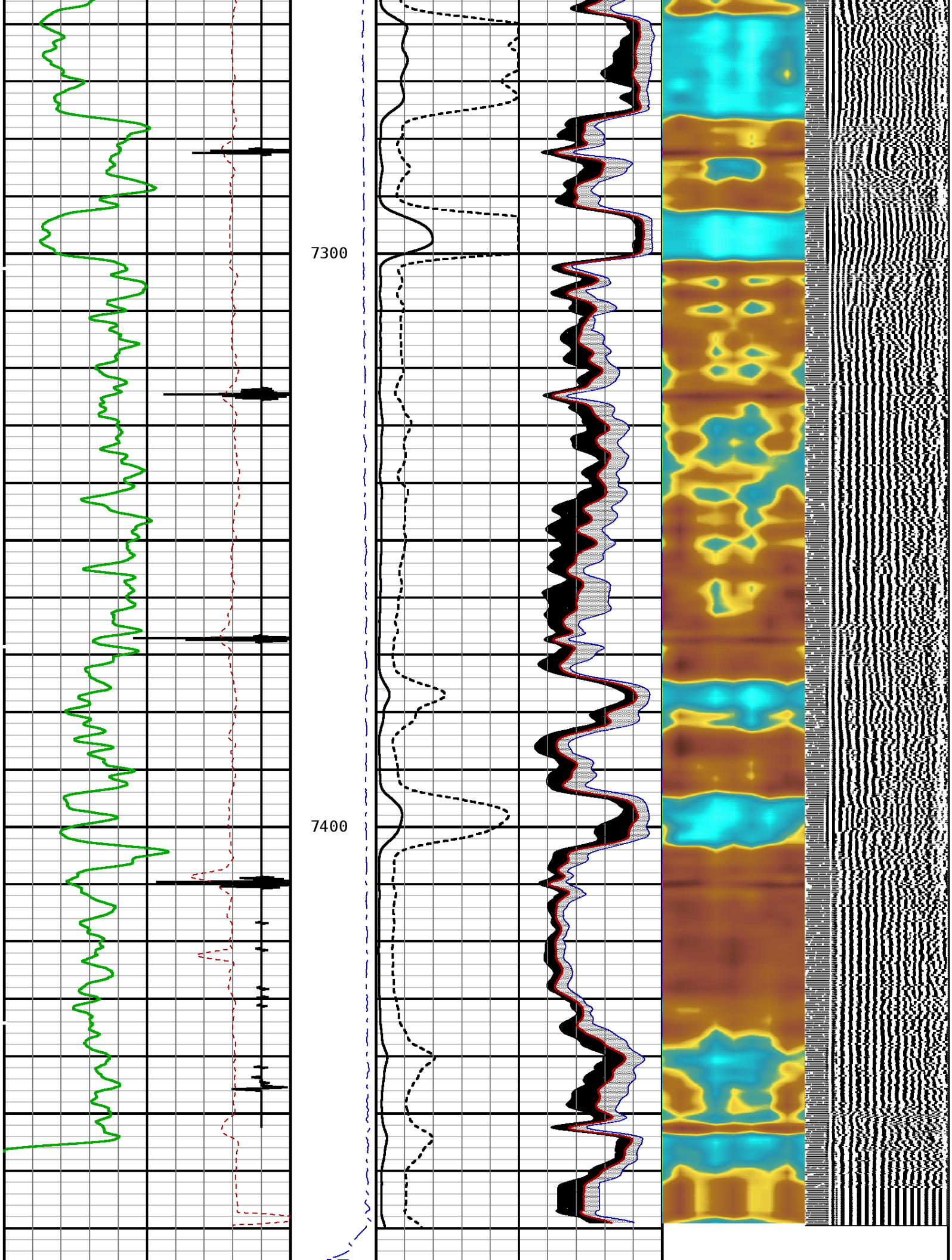
6500











TRAVEL TIME 3FT			Tension		AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERGY		VARIABLE DENSI						
310	Microseconds	210	0	2000	0	mv	100	0	mv	100	0	mv	80	200	us	1200	
GAMMA RAY					3' AMP X 5		AVG ENERGY										
0	API	150			0	mv	20	0	mv	100							
CCL							MAX ENERGY										
-3600	Millivolts	400							0	mv	100						

START DEPTH: **7475.9** DIRECTION: **UP** DATE: **01/19/2015** TIME: **23:12** MODE: **ORIGINAL**

108854831 SBTMAIN

MAIN PASS

DEPTH SCALE: **5":100'**

LOGGED VERSION: **2012.07.18.162"**

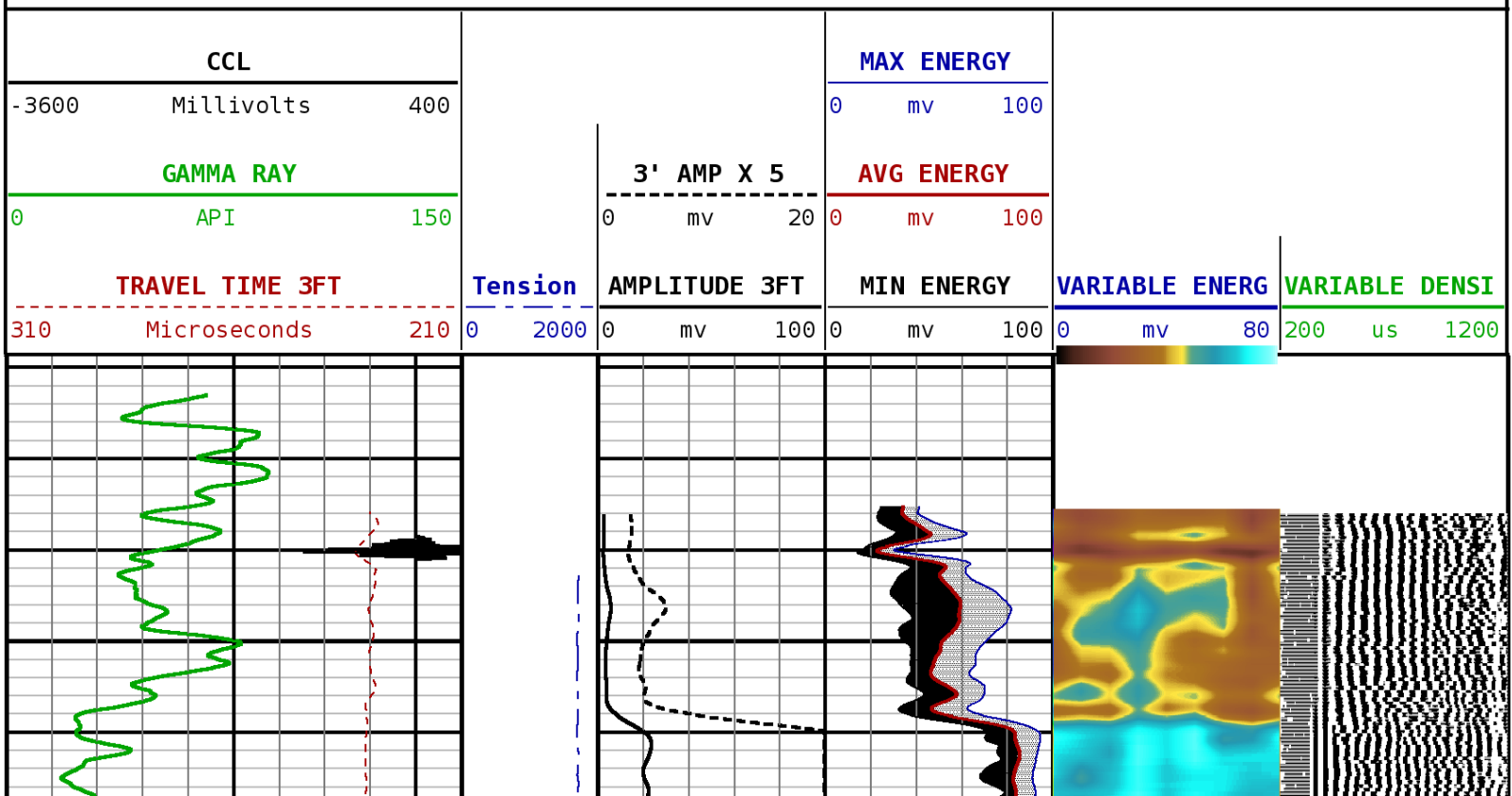
DEPTH SCALE: **5":100'**

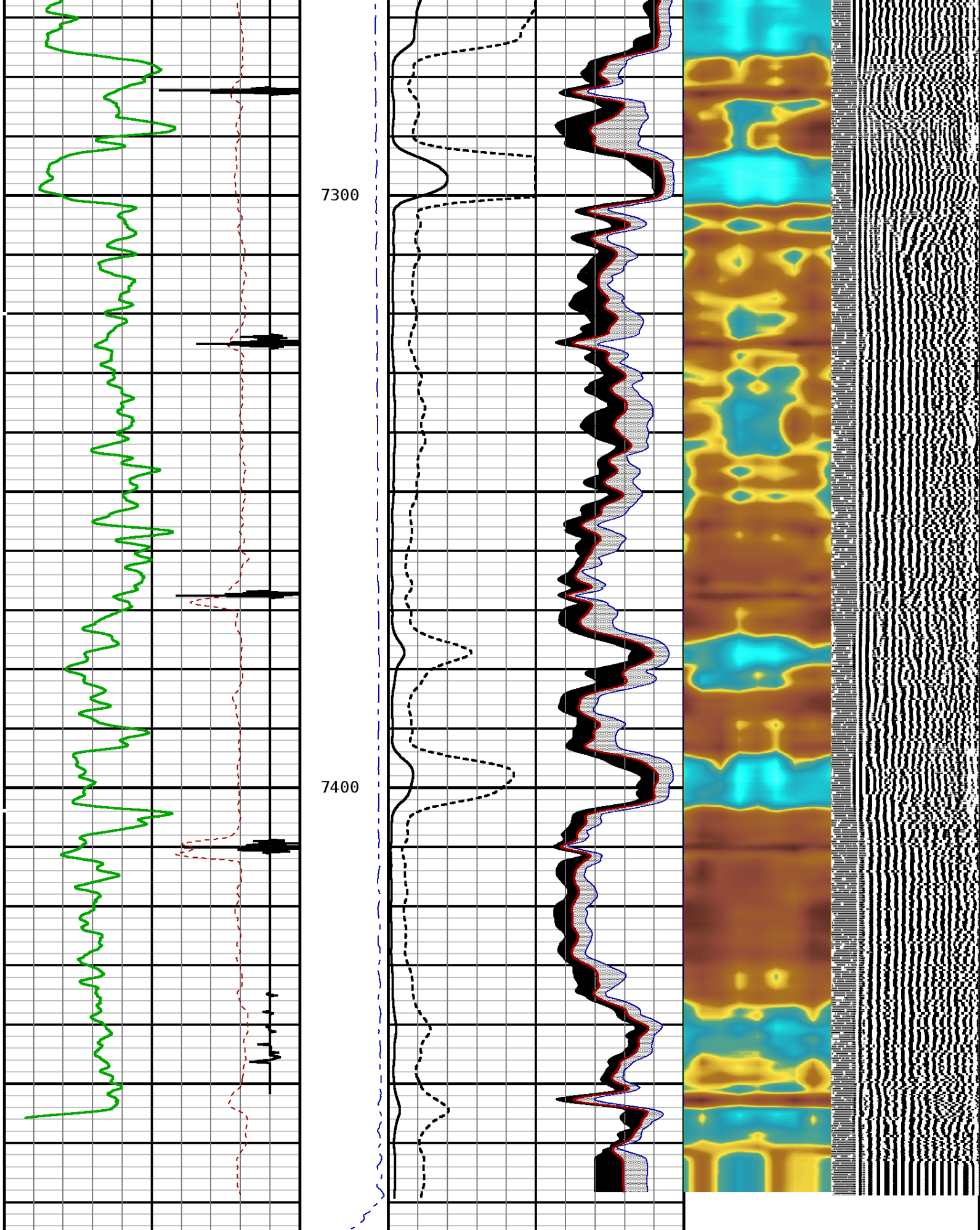
PROCESSED VERSION: **2012.07.18.162"**

REPEAT PASS

108854831 SBTREPEAT

FINISH DEPTH: **7218.7** Feet DIRECTION: **UP** DATE: **01/19/2015** TIME: **23:17** MODE: **ORIGINAL**





TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT			MIN ENERGY			VARIABLE ENERGY			VARIABLE DENSITY		
310	Microseconds	210	0 2000	0	mv	100	0	mv	100	0	mv	80	200	us	1200

GAMMA RAY

0 API 150

CCL

-3600 Millivolts 400

3' AMP X 5

0 mv 20

AVG ENERGY

0 mv 100

MAX ENERGY

0 mv 100

START DEPTH: **7475.1** DIRECTION: **UP** DATE: **01/19/2015** TIME: **23:17** MODE: **ORIGINAL**

108854831 SBTREPEAT

REPEAT PASSDEPTH SCALE: **5":100'**LOGGED VERSION: **2012.07.18.162"****1 7/16 Adapter Head**

Weight 2.2 LB.
Length 2.54
Max. Diameter 1.44 IN.

Total Stack Weight 223.0 LBS. in air
Total Stack Length 27.83 FT.

Slim Hole Centralizer

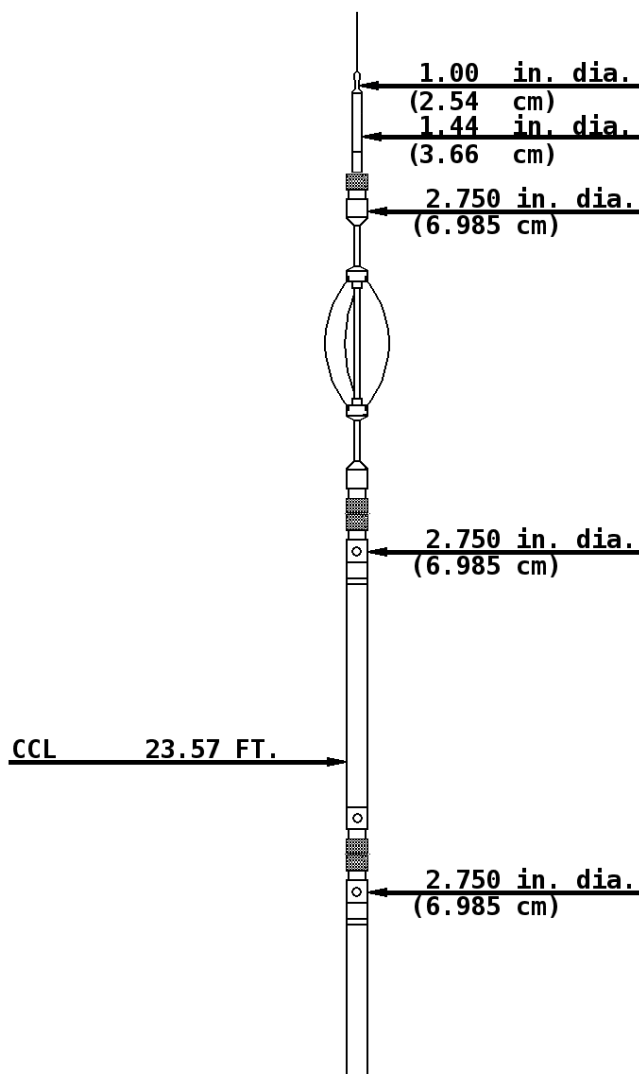
Weight 15 lbs
Length 2.49 FT.
Max. Diameter 2.750 IN.

Collar Locator

Weight 39.8 LBS.
Length 3.40 FT.
Max. Diameter 2.75 IN.

Slim Hole Gamma Ray

Weight 39.8 LBS.
Length 4.71 FT
Max. Diameter 2.750 IN.



Max. Diameter 2.750 IN.

GR 19.97 FT.

Slim Hole Centralizer

Weight 22 LBS.
Length 3.08 FT.
Max. Diameter 2.750 IN.

2.750 in. dia.
(6.985 cm)

Sector Bond

Weight 89.2 LBS.
Length 10.32 FT.
Max. Diameter 2.750 IN.

SBT/CBL Tx 8.75 FT.

2.750 in. dia.
(6.985 cm)

SBT Rx 7.77 FT.

3' Rx 7.28 FT.

5' Rx 6.28 FT.

2.750 in. dia.
(6.985 cm)

Slim Hole Centralizer

Weight 15.0 LBS.
Length 2.82 FT.
Max. Diameter 2.750 IN.

Tool Zero

COMPANY URSA OPERATING COMPANY
WELL VALLEY FARMS 34D-11-06-92
FIELD GRAVEL TREAD



Weatherford®

COUNTY GARFIELD

STATE COLORADO

Weatherford