



SECTOR BOND
GAMMA RAY / CCL LOG

COMPANY URSA OPERATING
COMPANY
WELL BAT 24C-24-07-96

FIELD BATTLEMENT MESA
CNTY GARFIELD STATE CO

COMPANY	URSA OPERATING COMPANY
WELL	BAT 24C-24-07-96
FIELD	BATTLEMENT MESA
COUNTY	GARFIELD

STATE OF COLORADO

LOCATION:

SHL: 1820'	FSL & 2039'	FWL
BHL: 0550'	FSL & 1980'	FWL
SEC.24	TWP.7S	RGE.

OTHER SERVICES:

PERM. DATUM GROUND LEVEL	ELEV. 5182.5'
LOG MEASURED FROM K.B. 17 FT. ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM K.B.	

ELEV.:K.B. 5199.5
D.F. 5199.5
G.L. 5182.5

DATE	08-MAR-2015
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RUN NO.

DEPTH DRILLER

DEPTH LOGGER

BTM. LOG INTE

TOP LOG INTER

OPEN HOLE SIZ

TYPE FLUID

DENS. VIS

MAX. REC. IEM

ESI. CEMENT I

TIME WELL REA
TIME LOGGED OTIME LOGGER 0
FOITD NOEQUIP. NO. _____
LOCATION _____

LOCAL ION DECOUPLED BY

WITNESSED BY

WT INFL33LD BI

DOI

FROM: _____	TO: _____
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[illegible][illegible]

CASING RECORD

SURFACE STRIN

PROT. STRING

PROD. STRING

LINER

1000

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: WFT CRANE #15045	Service Order # 113048458
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LOG WAS CORRELATED TO WEATHERFORD PULSED NEUTRON DECAY LOG DATED BHT 189 °F

ALL LOGGED INTERVALS PER CUSTOMER REQUEST

Prints: 2

THANK YOU FOR CHOOSING WEATHERFORD WIRELINE SERVICES

EQUIPMENT DATA

[illegible]

DEPTH SCALE: 5":100'

PROCESSED VERSION: 2012.07.18.162"

MAIN PASS

113048458 SBTMAIN

FINISH DEPTH: 35.7 Feet DIRECTION: UP DATE: 03/08/2015 TIME: 20:17 MODE: ORIGINAL

CCL

-3600 Millivolts 400

GAMMA RAY

0 API 150

TRAVEL TIME 3FT

312 Microseconds 212

MAX ENERGY

0 mv 100

AVG ENERGY

0 mv 100

Tension

3' AMP X 5

0 mv 20

AMPLITUDE 3FT

0 mv 100

MIN ENERGY

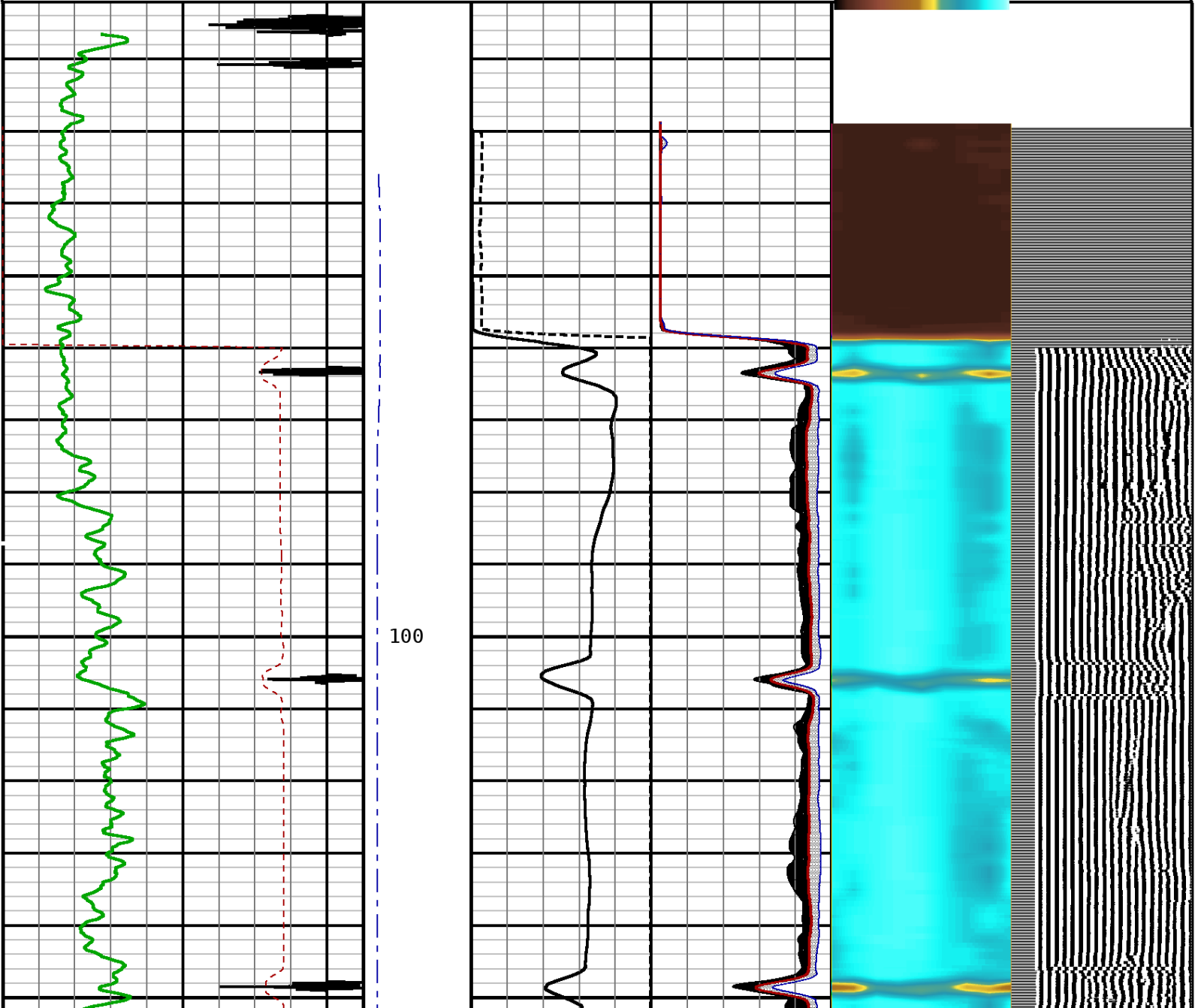
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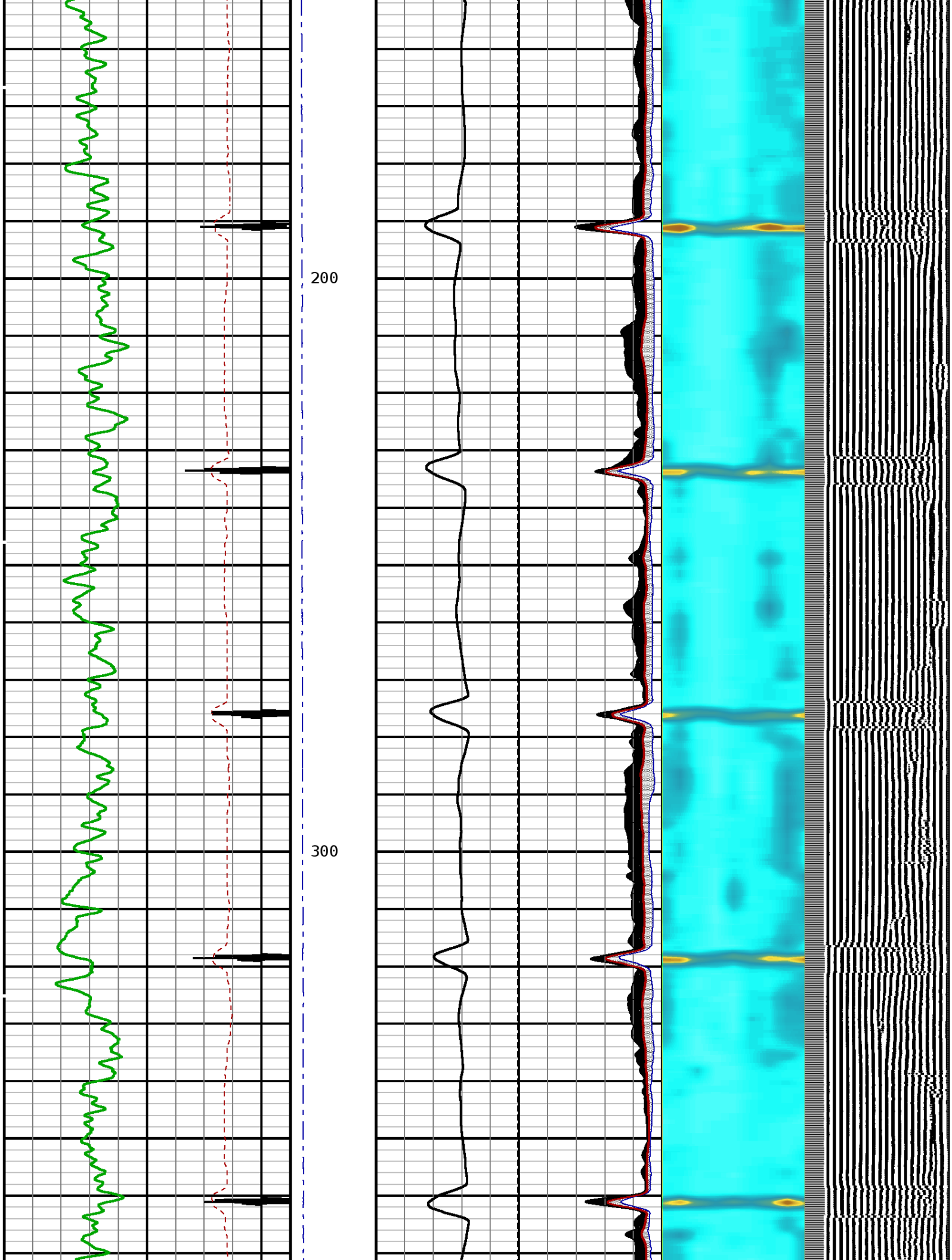
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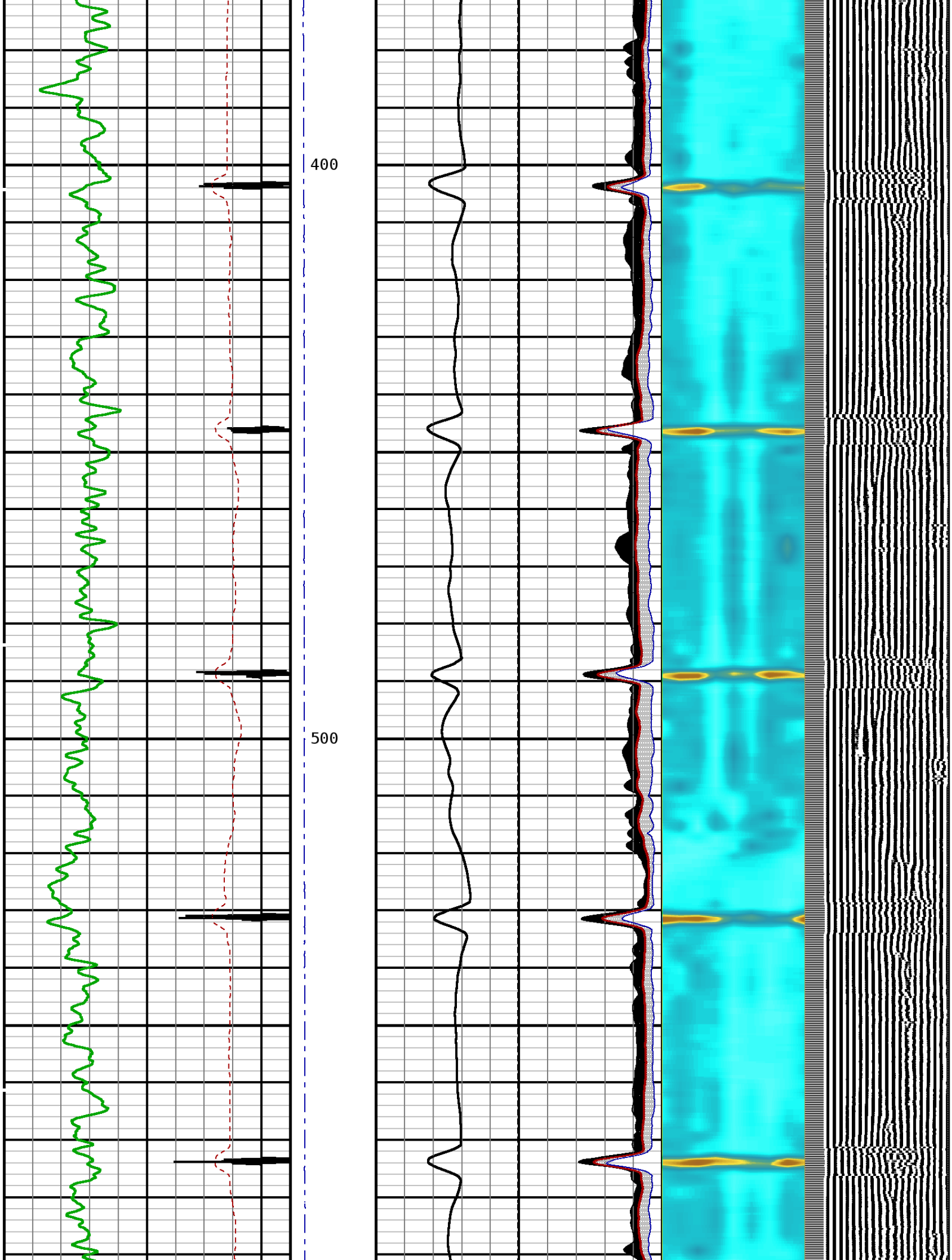
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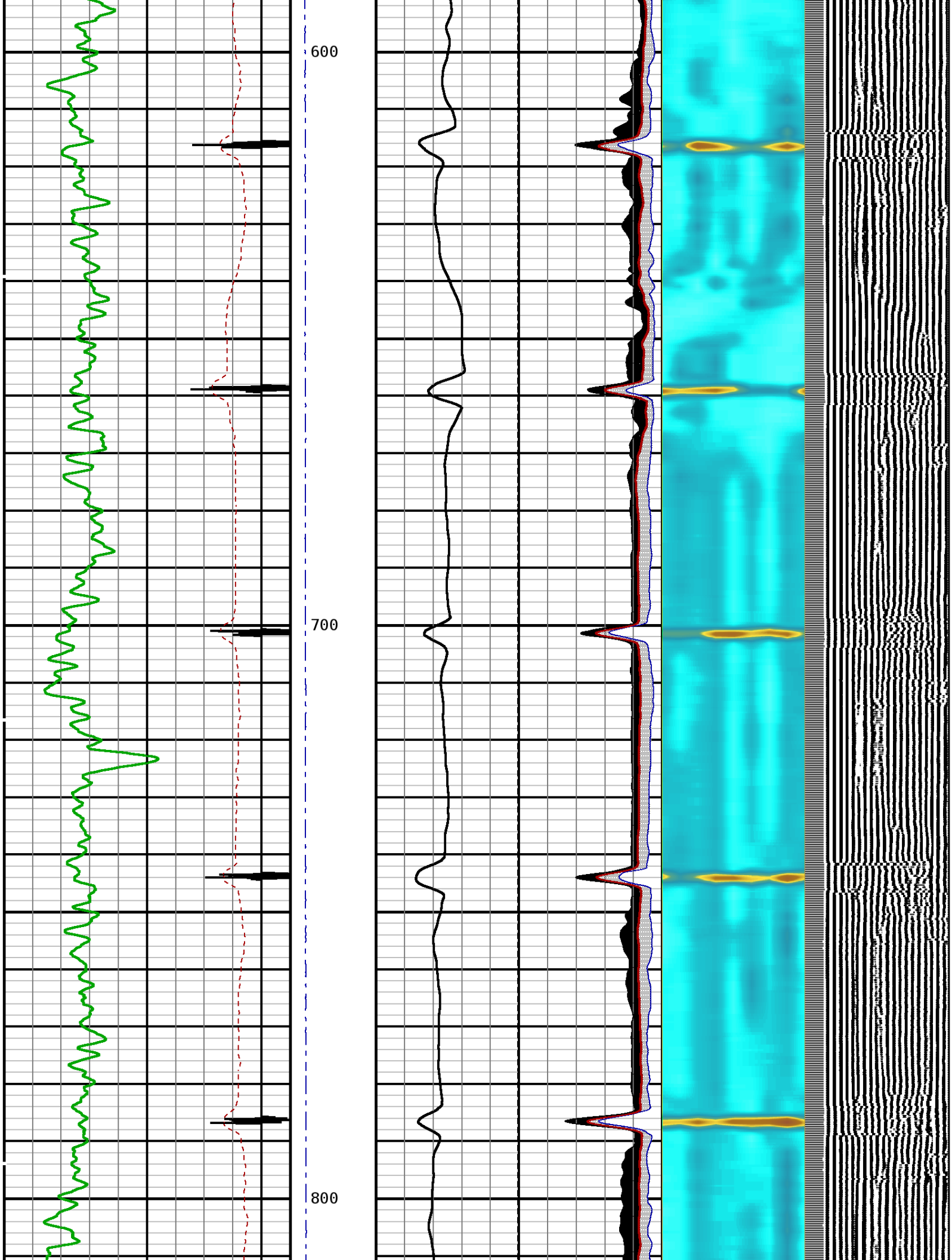
VARIABLE DENSI

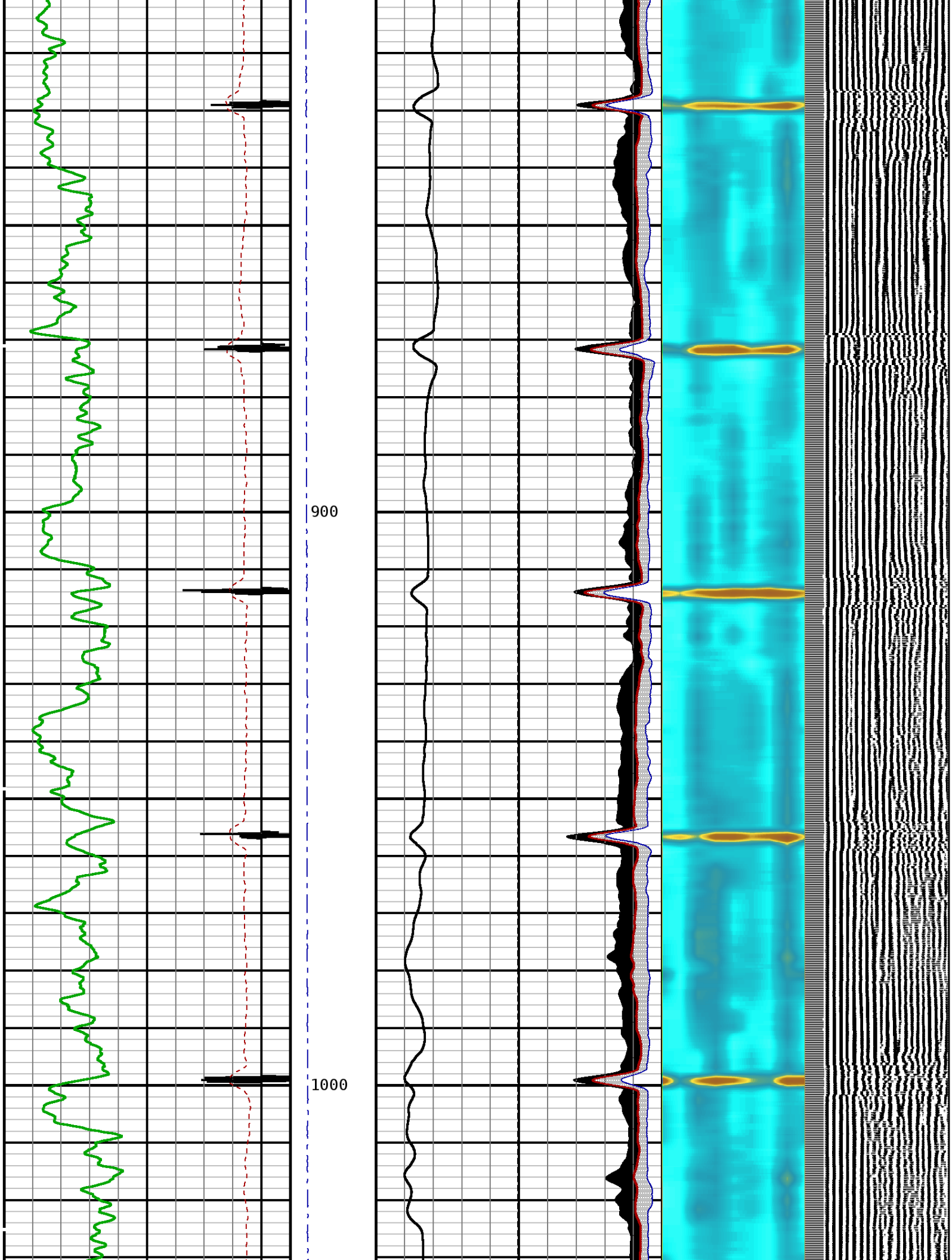
200 us 1200

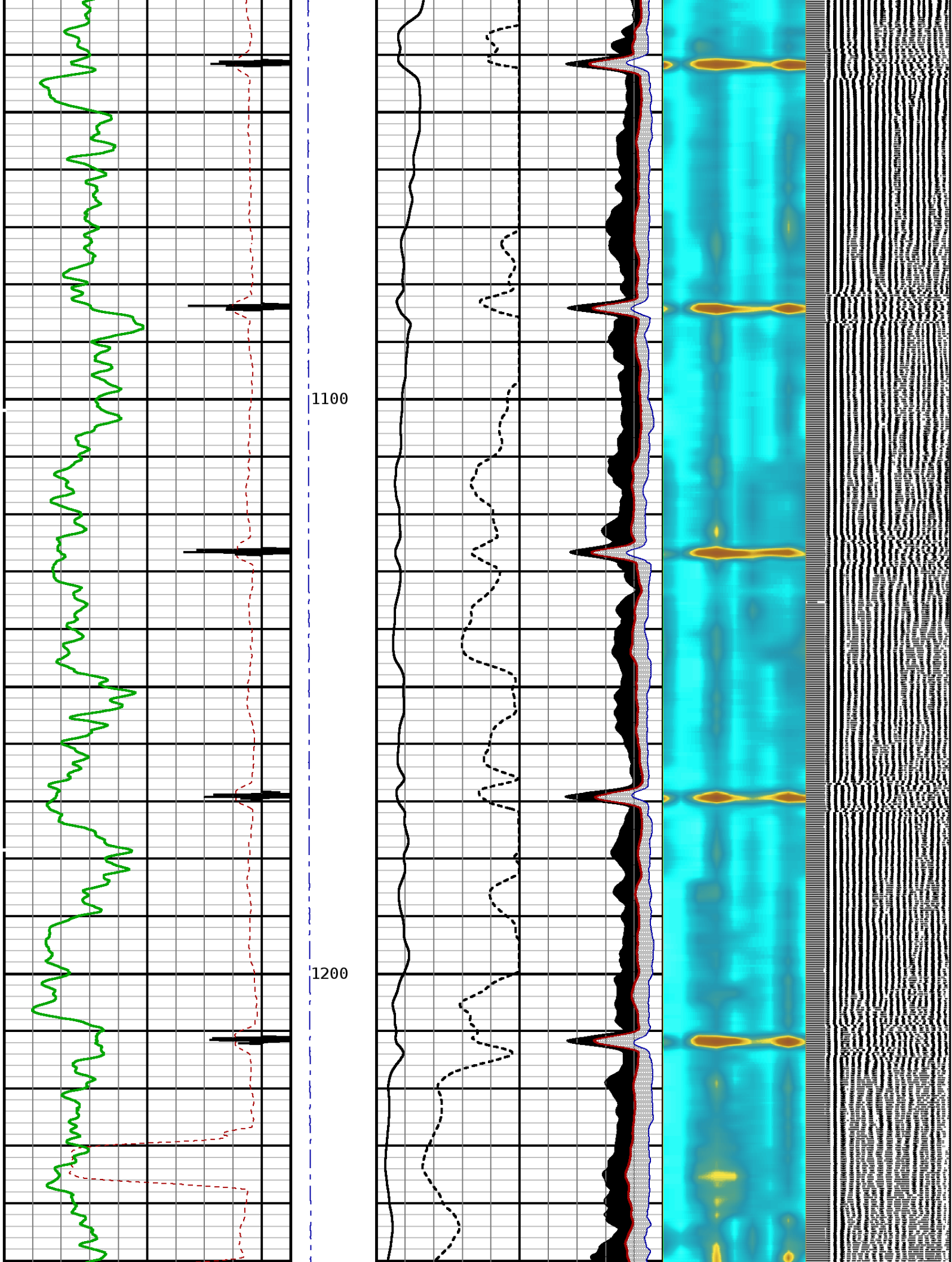


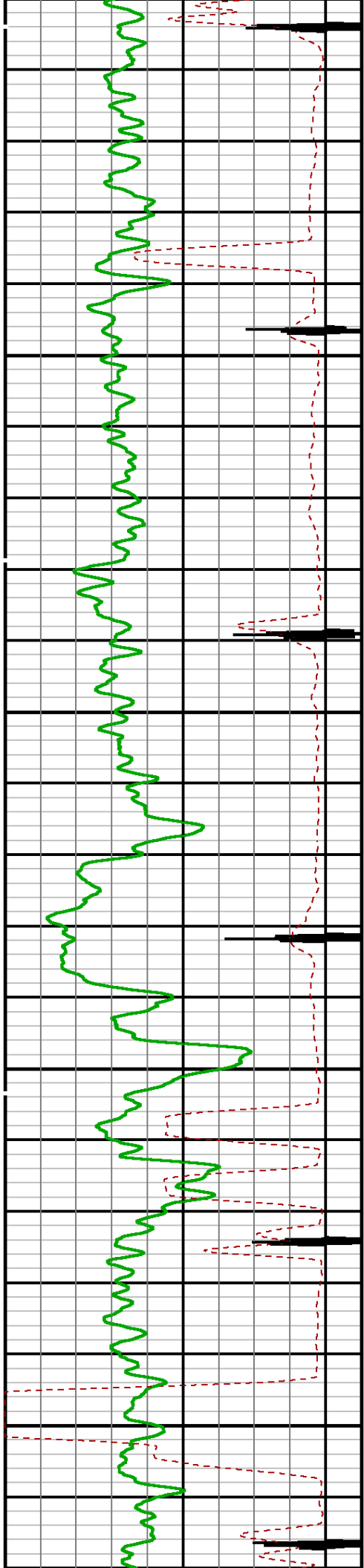






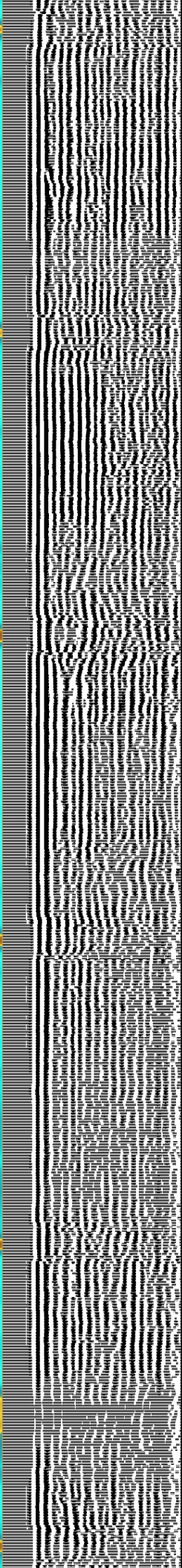
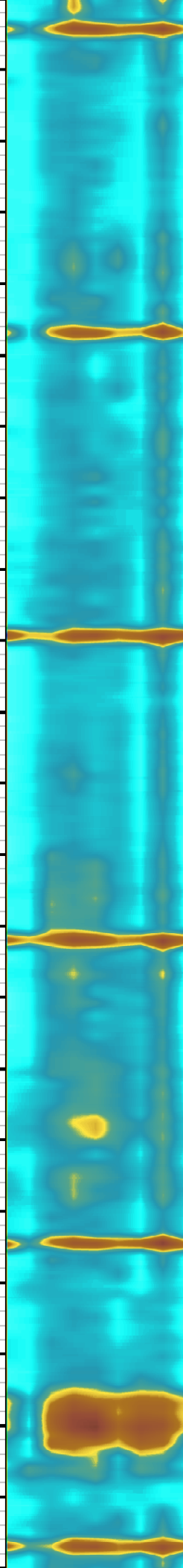
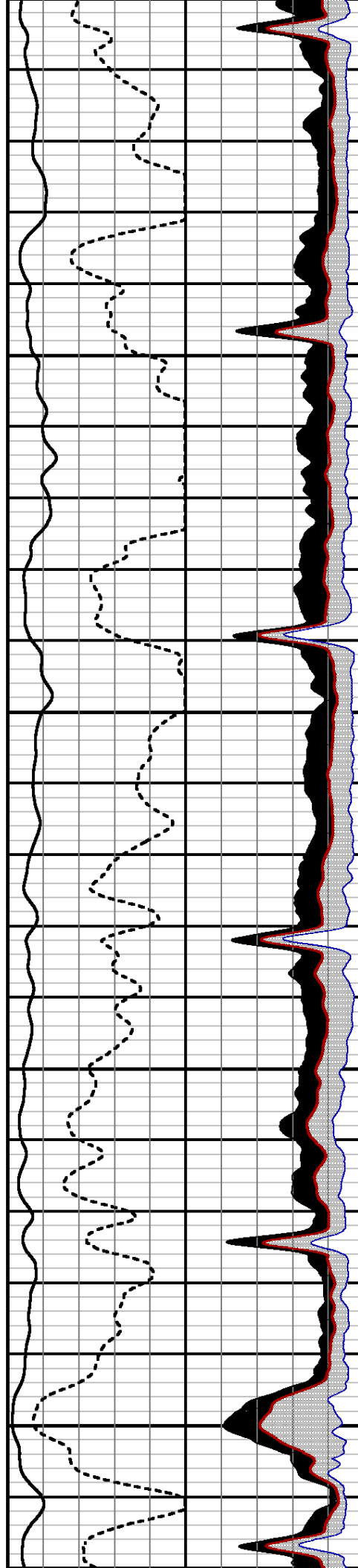


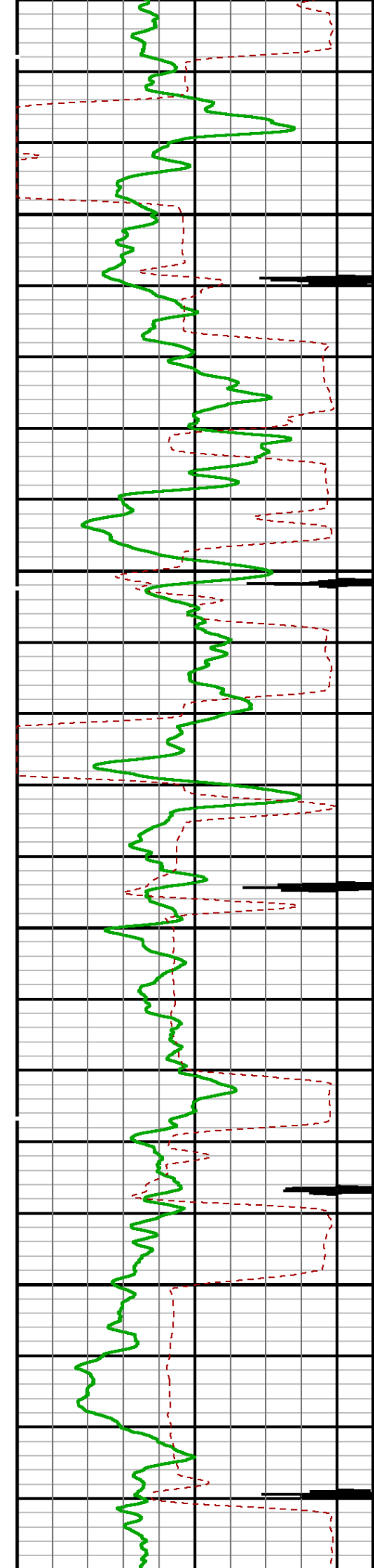




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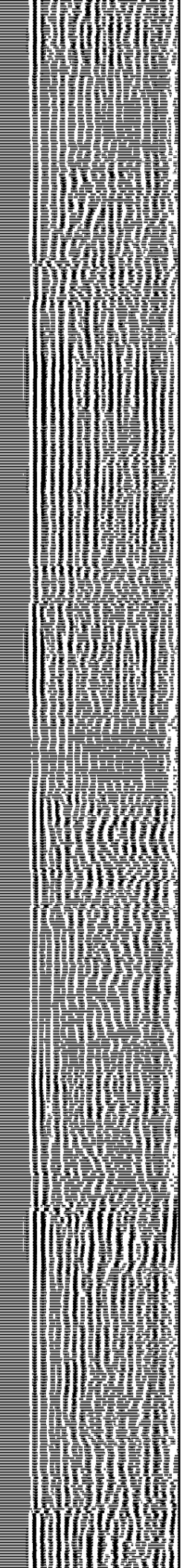
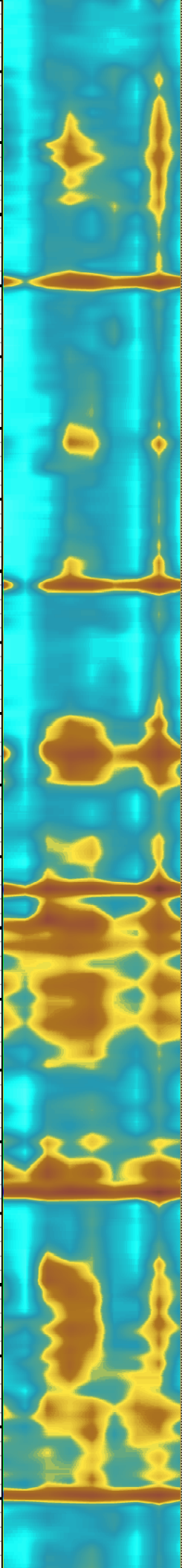
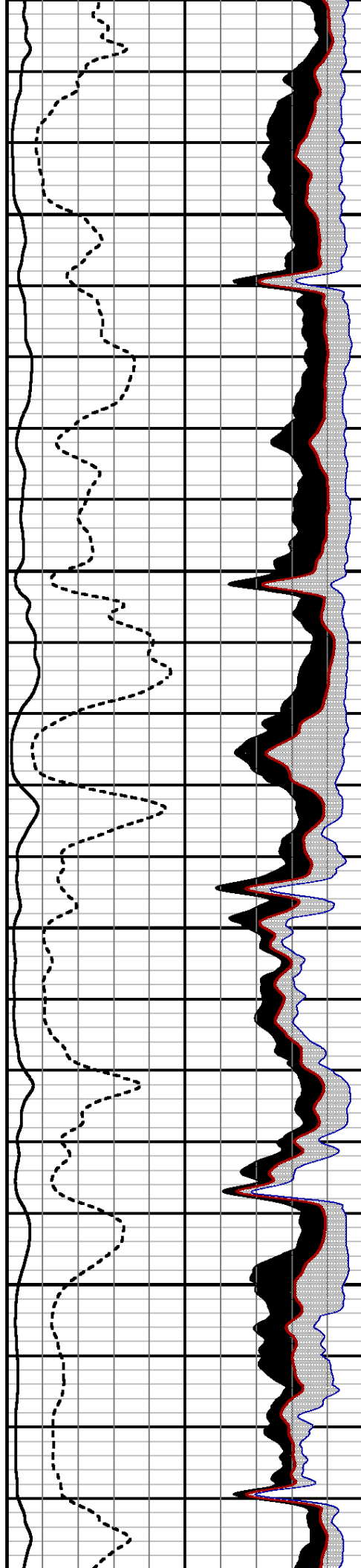
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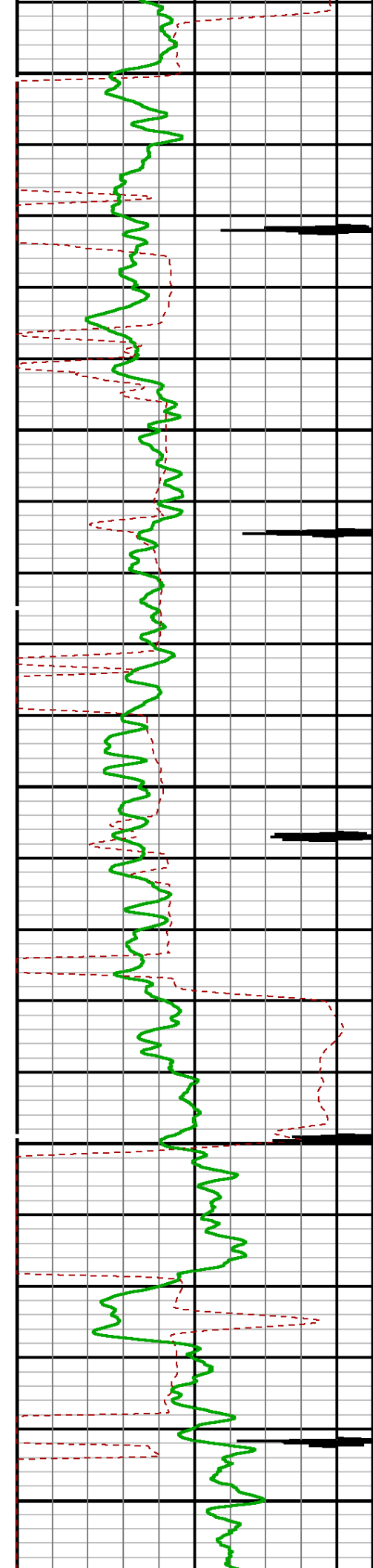




1500

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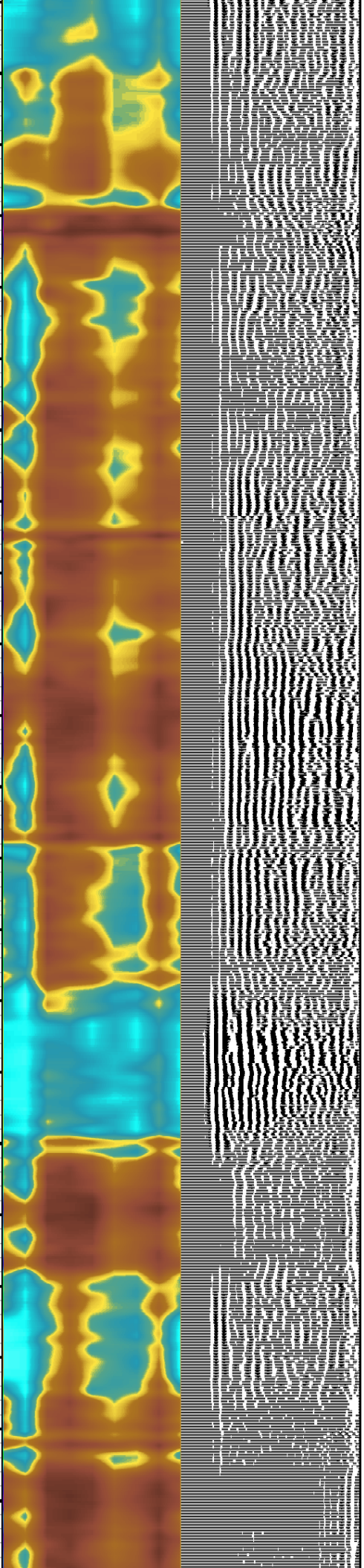
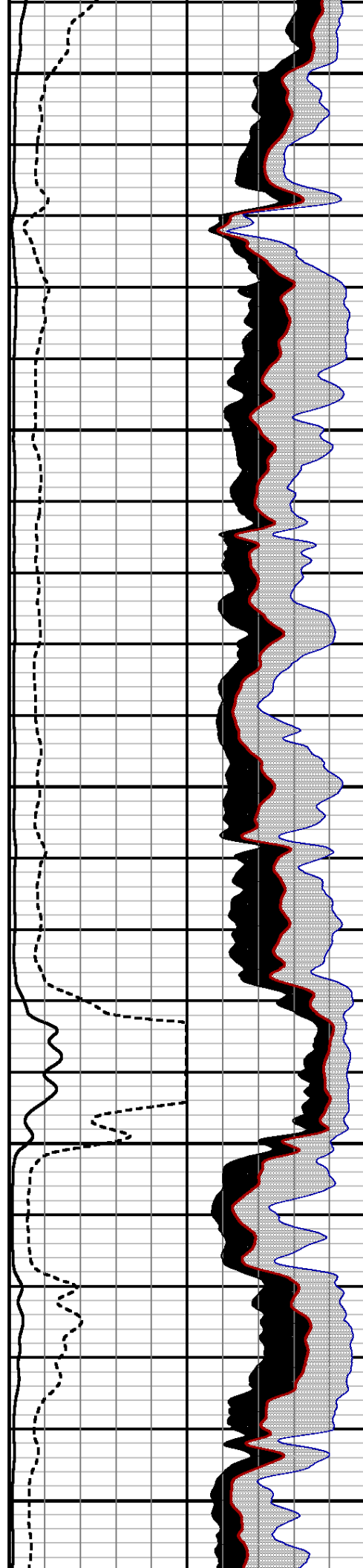


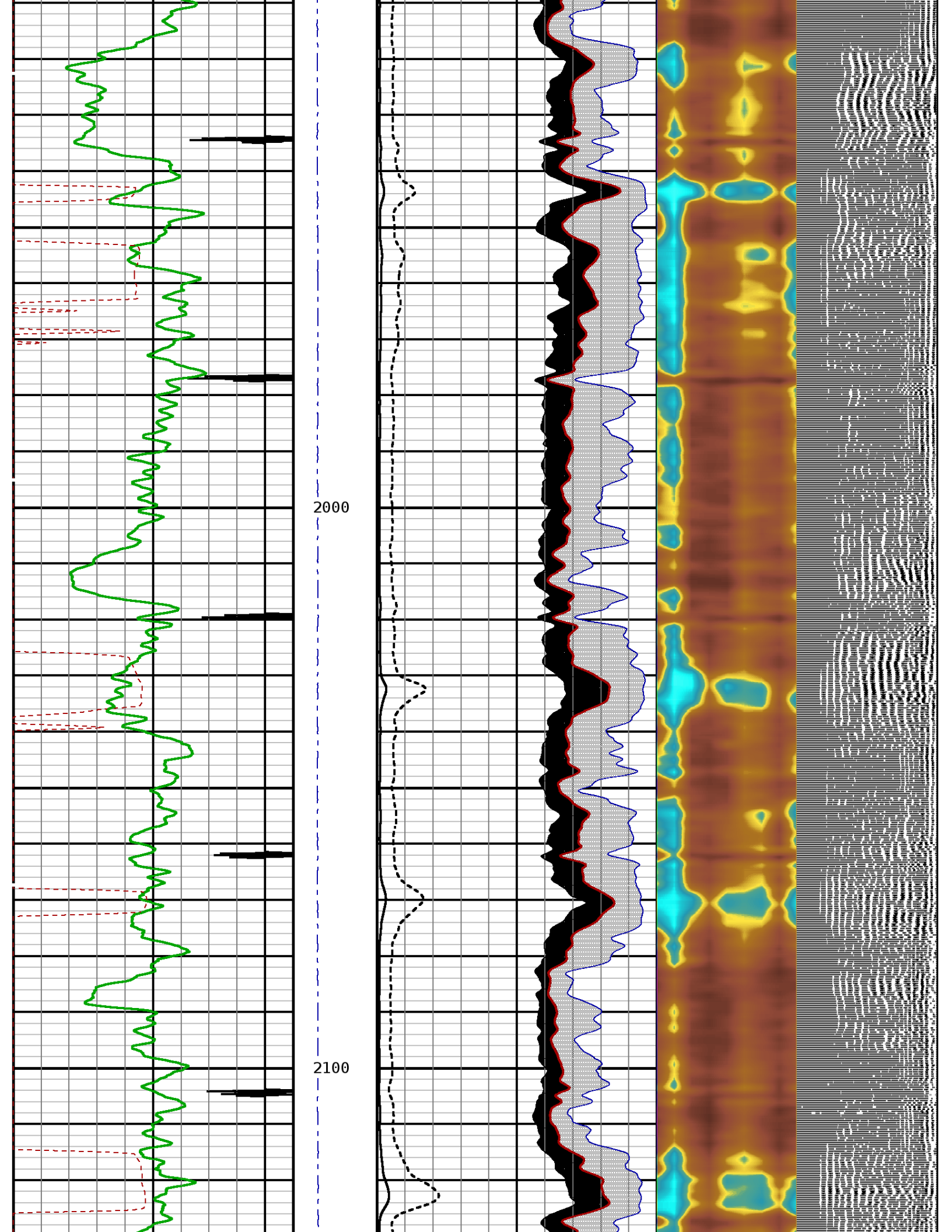


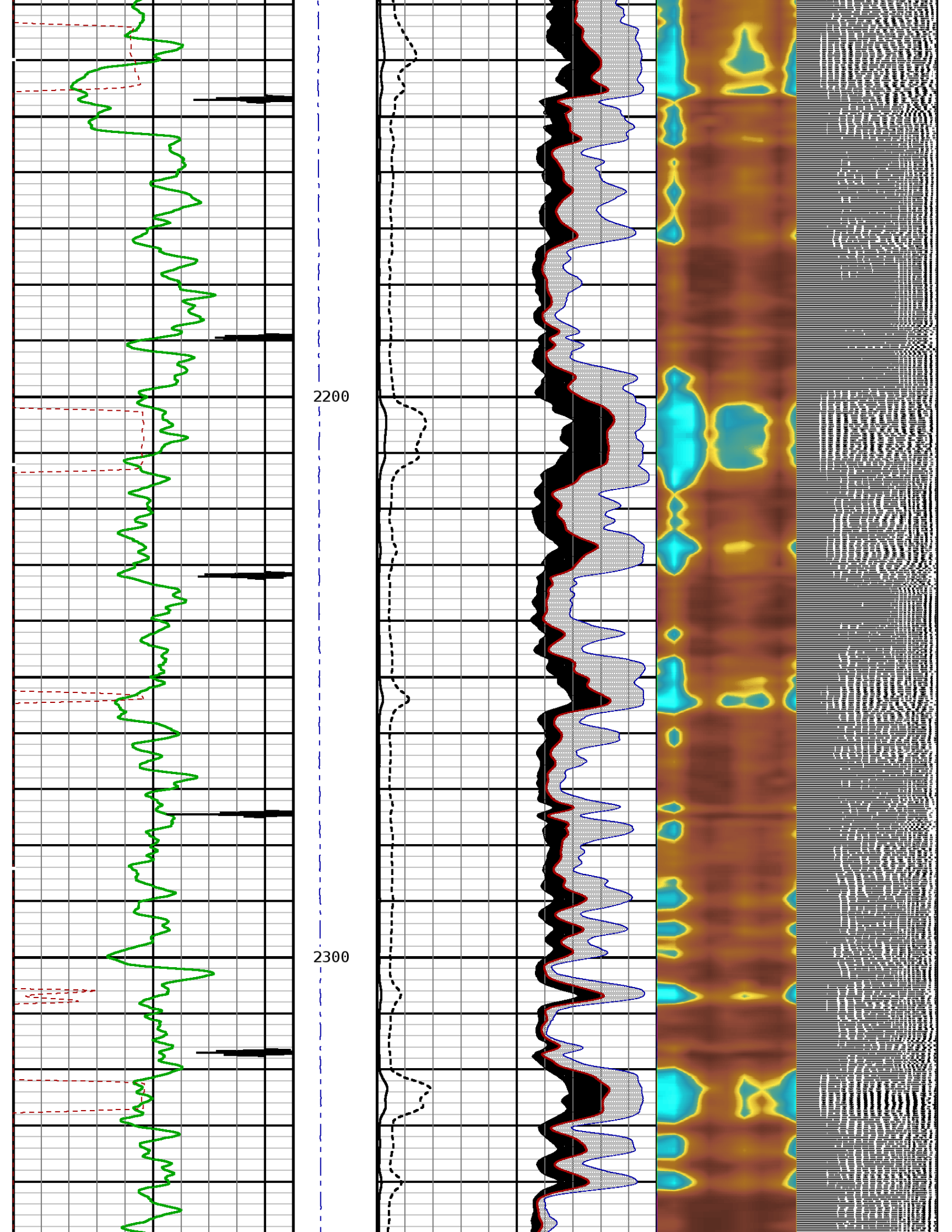
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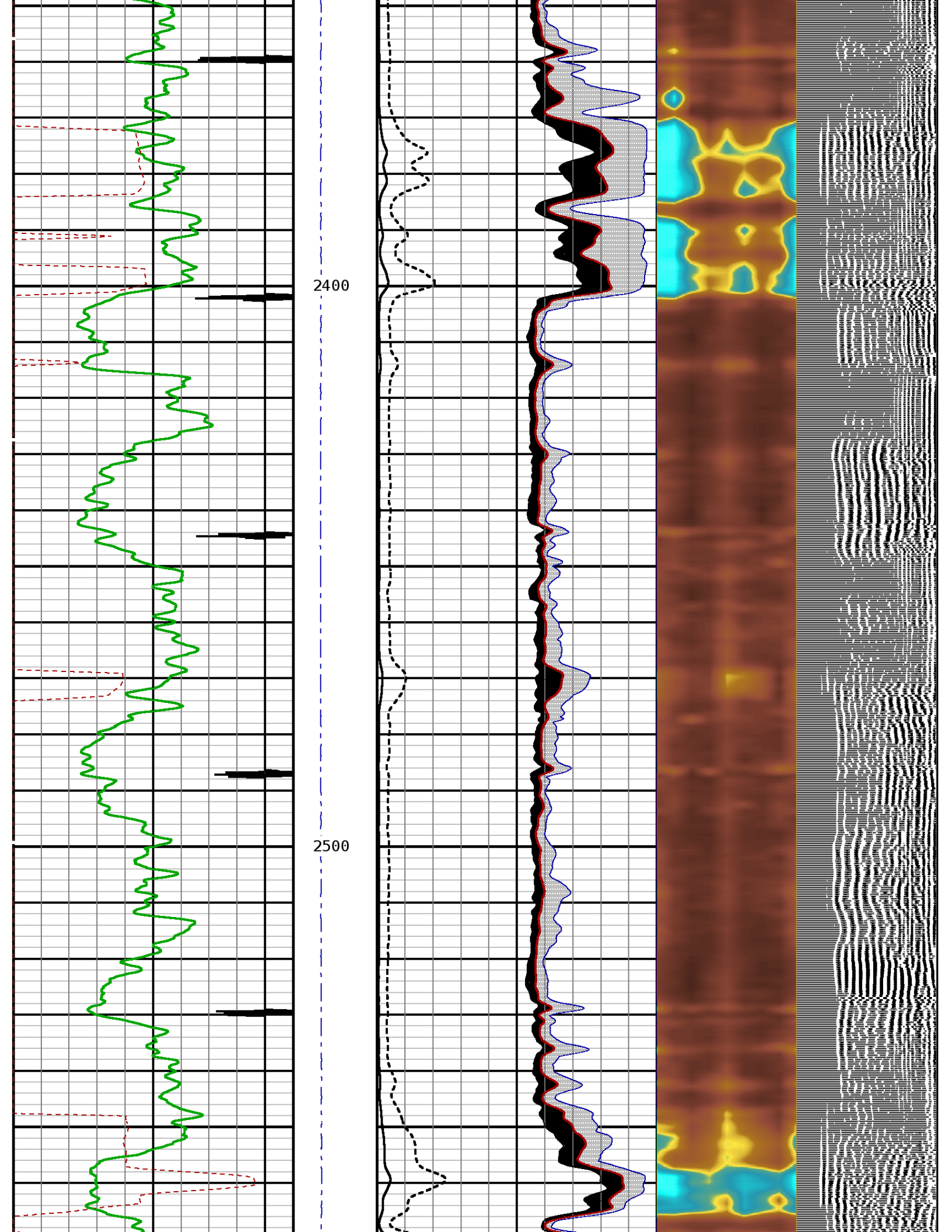
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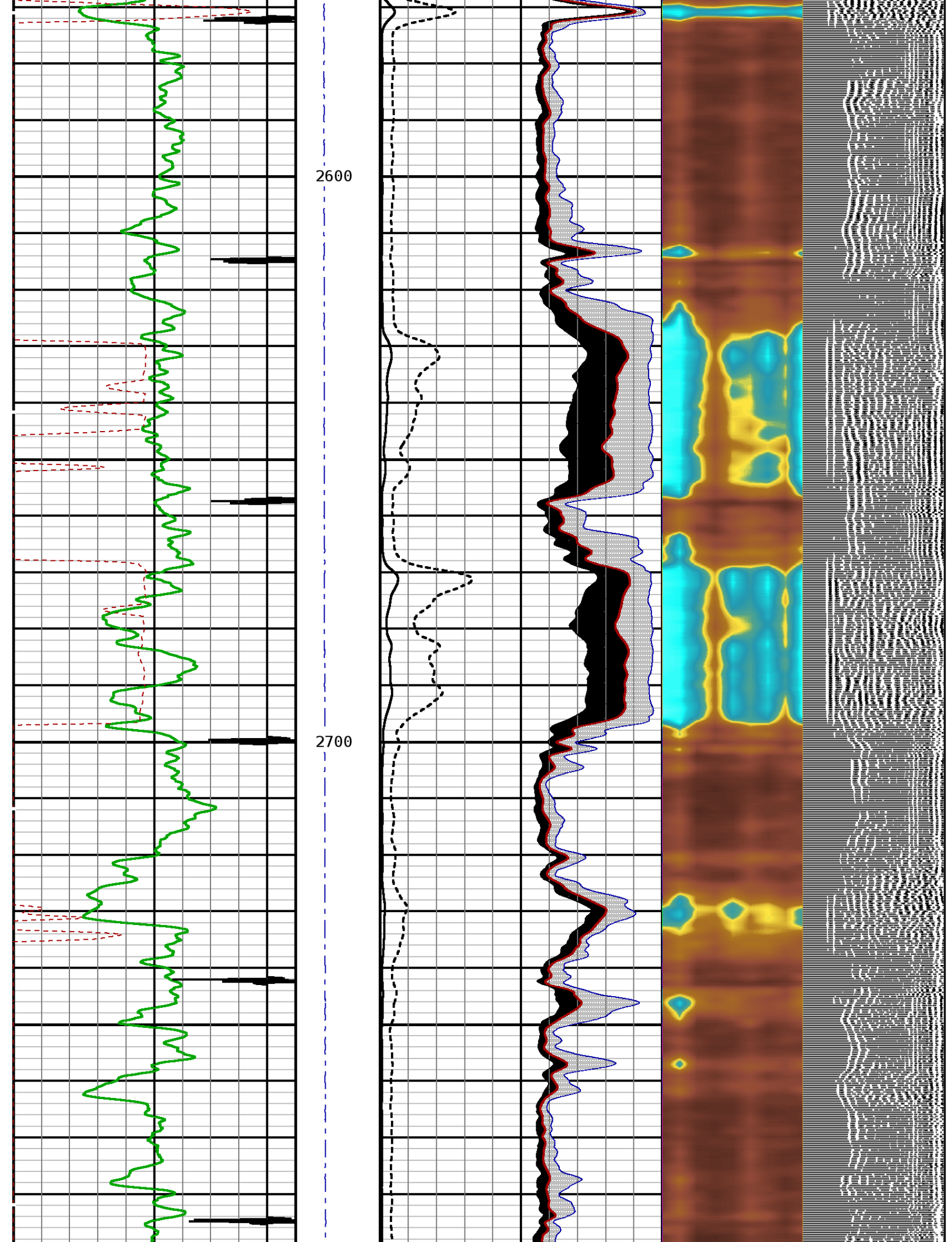
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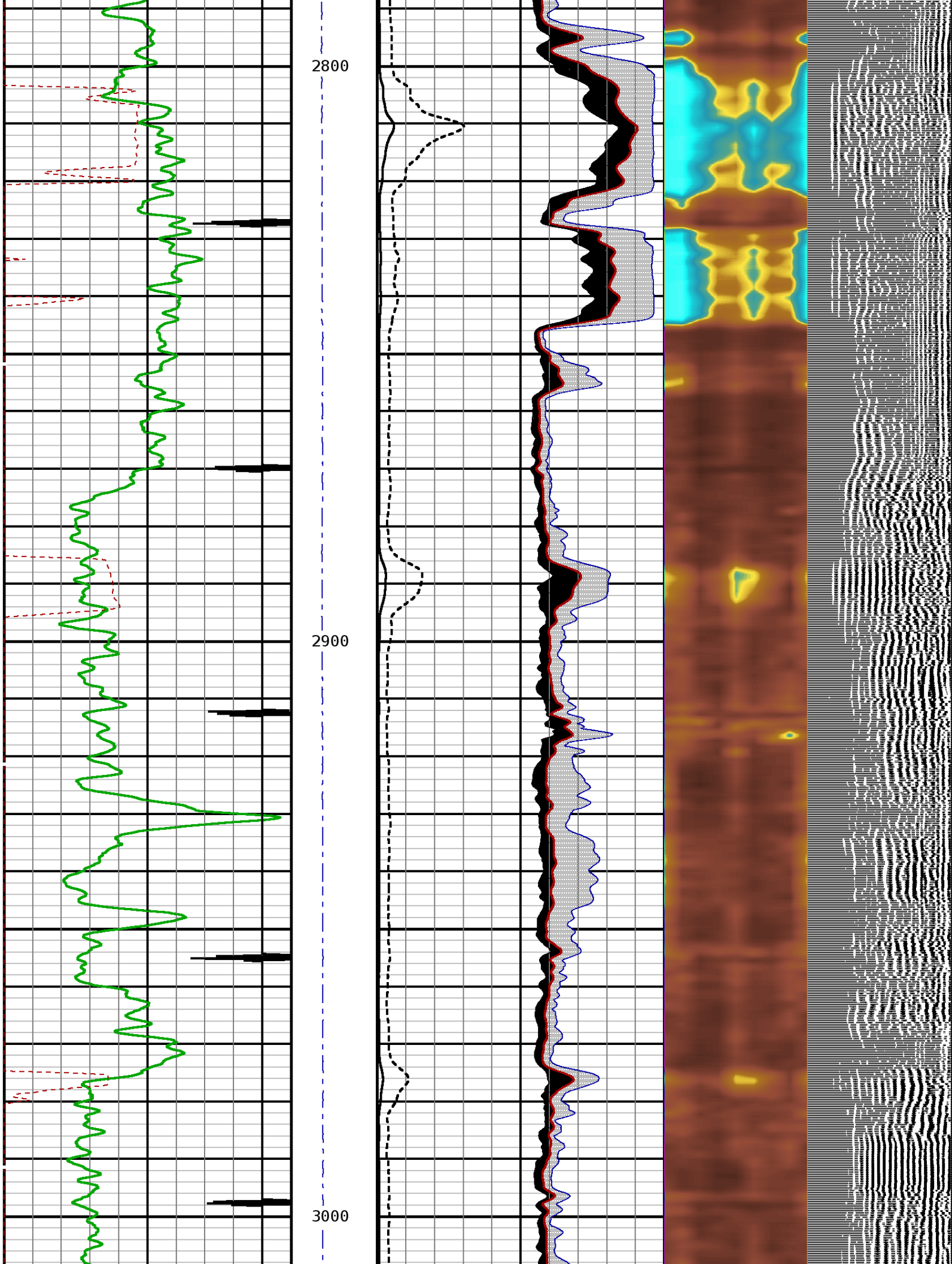


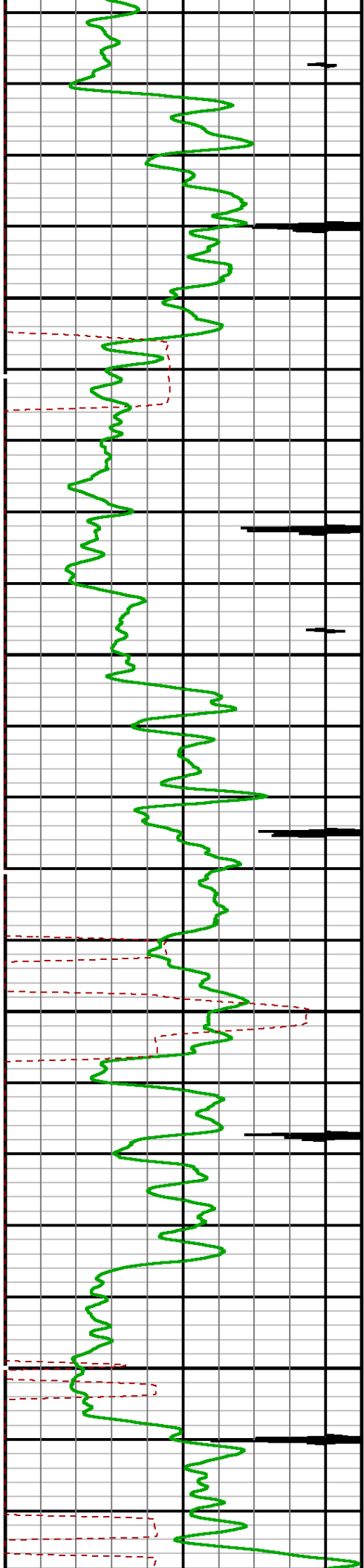






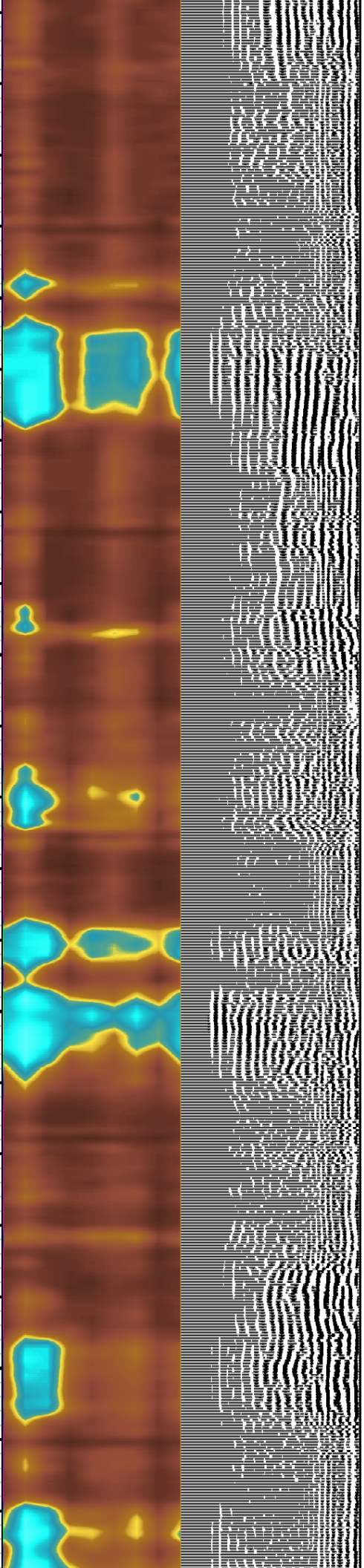
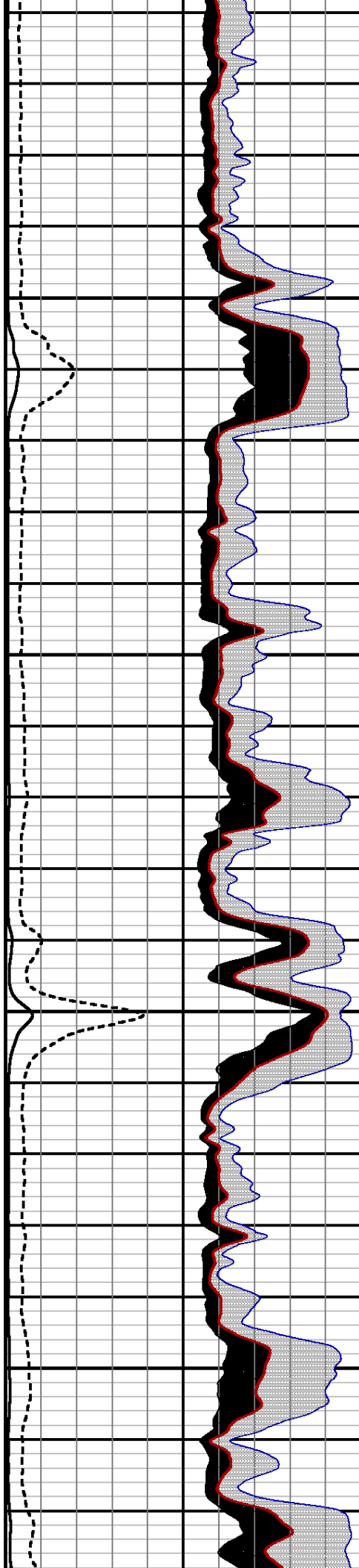


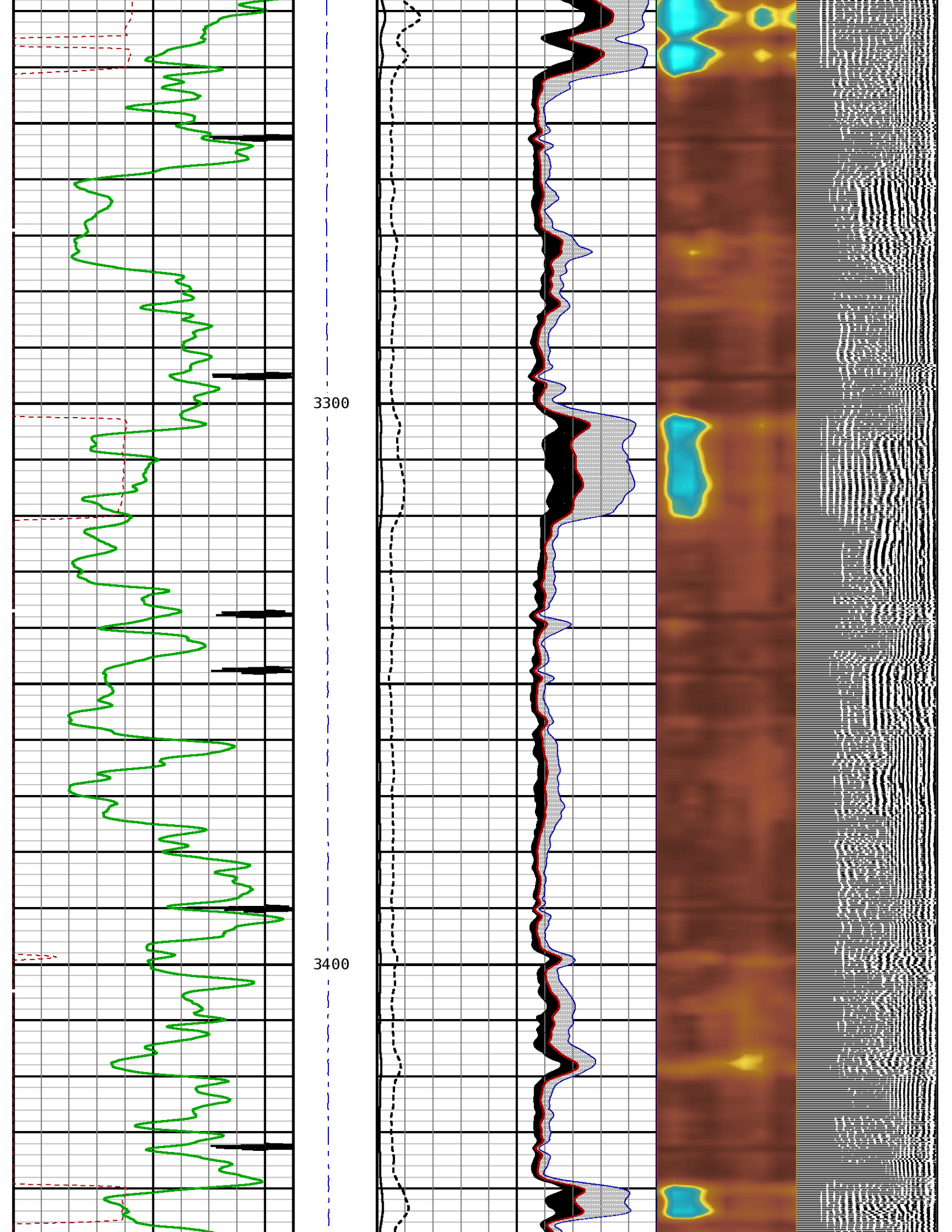


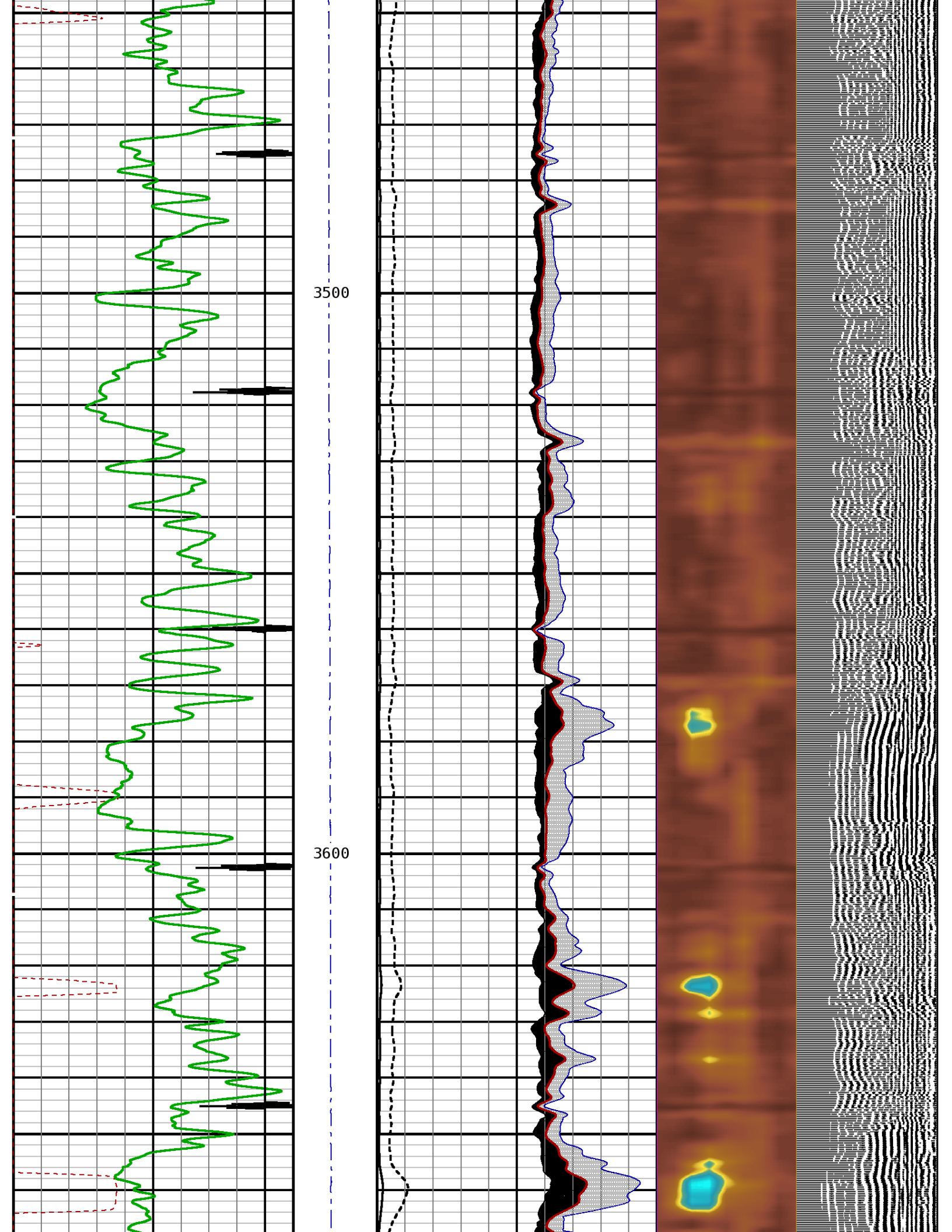


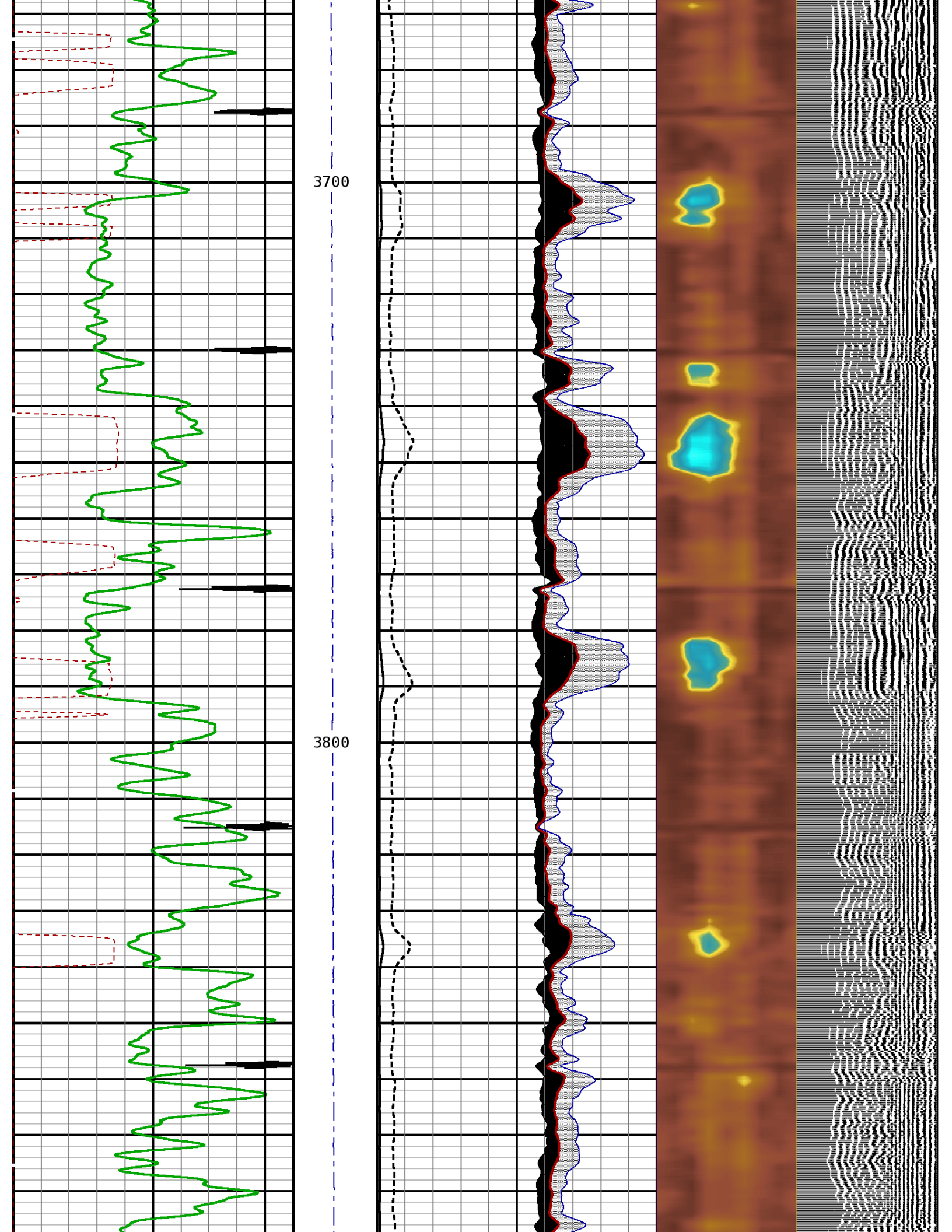
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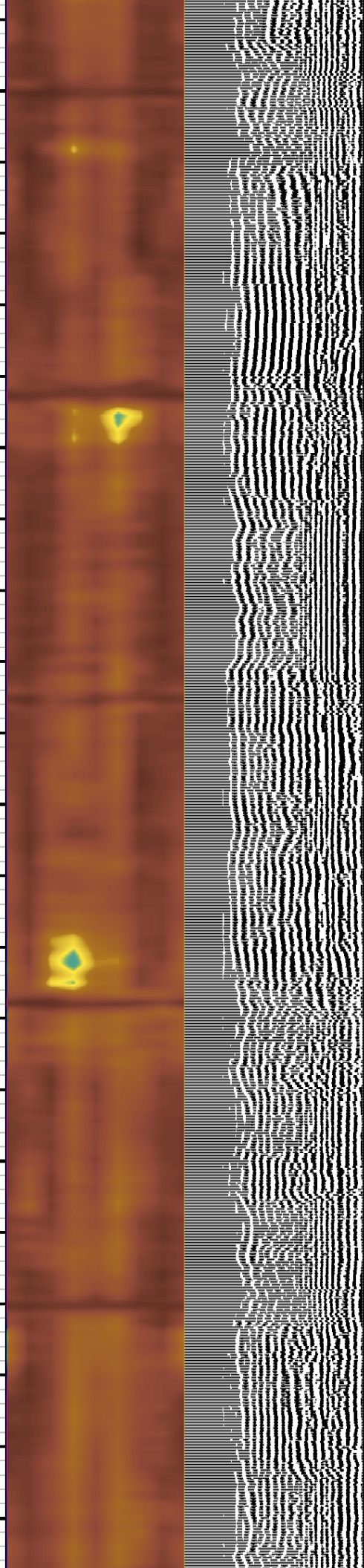
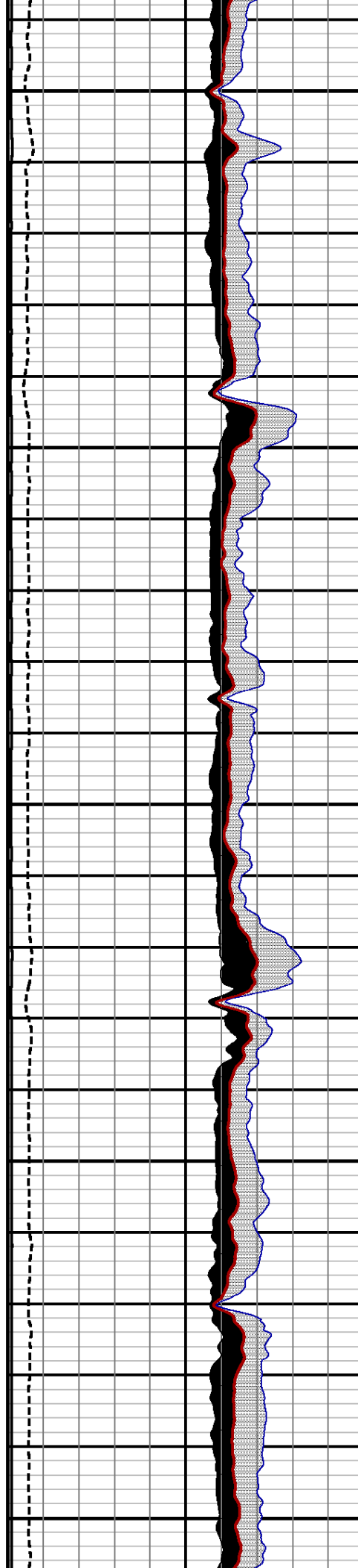
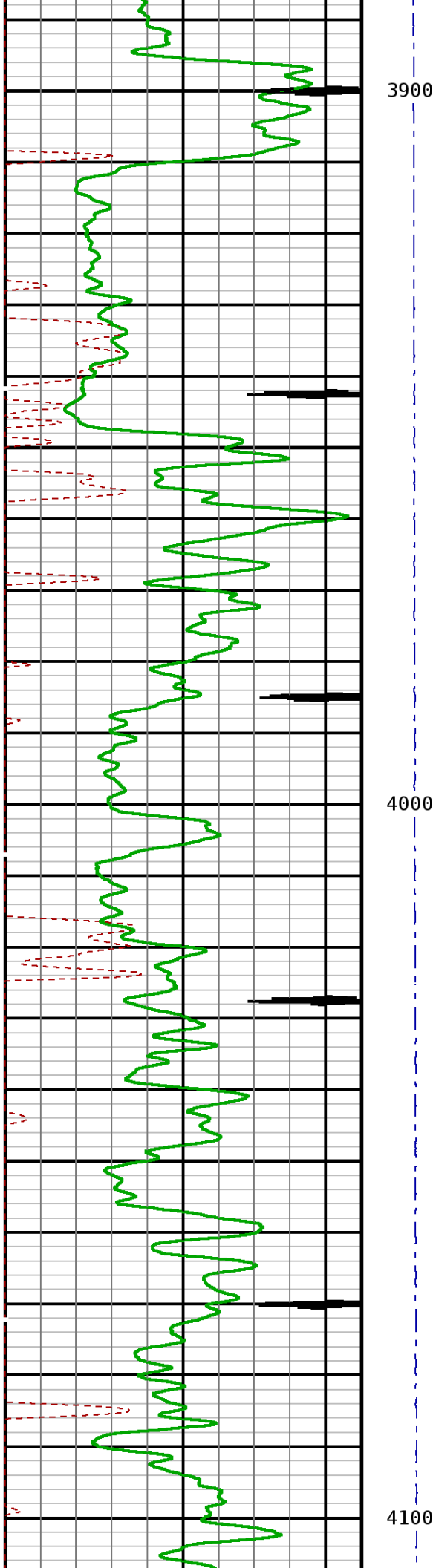
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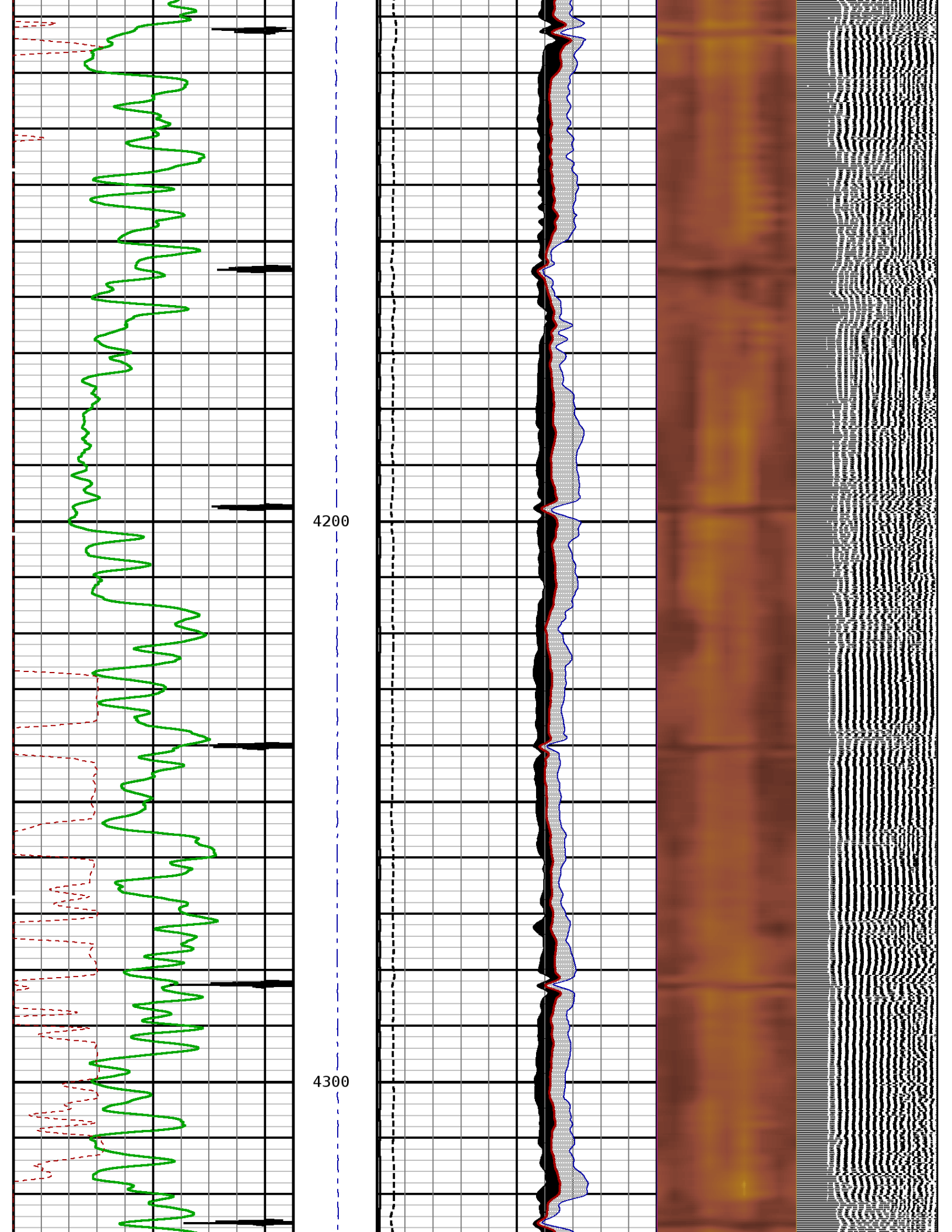


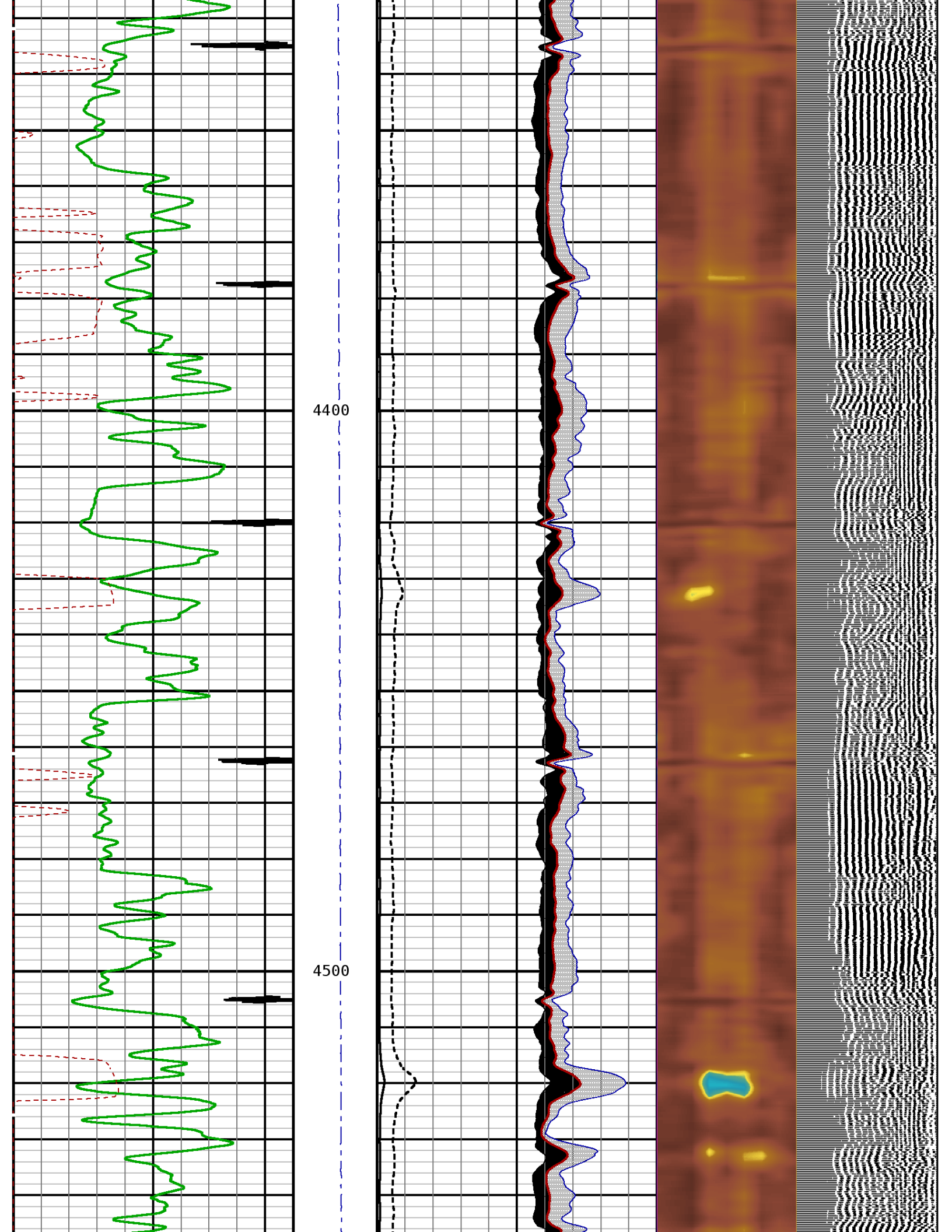


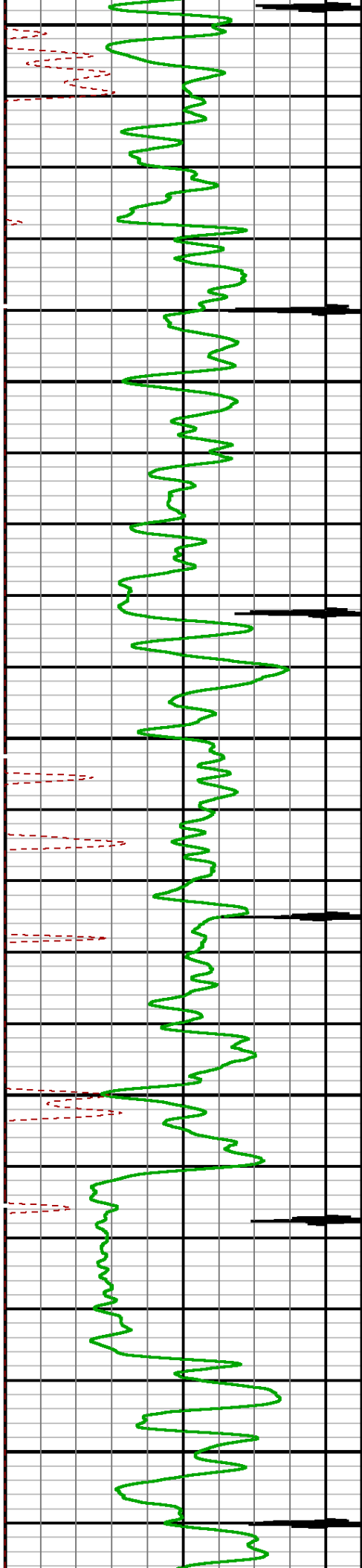






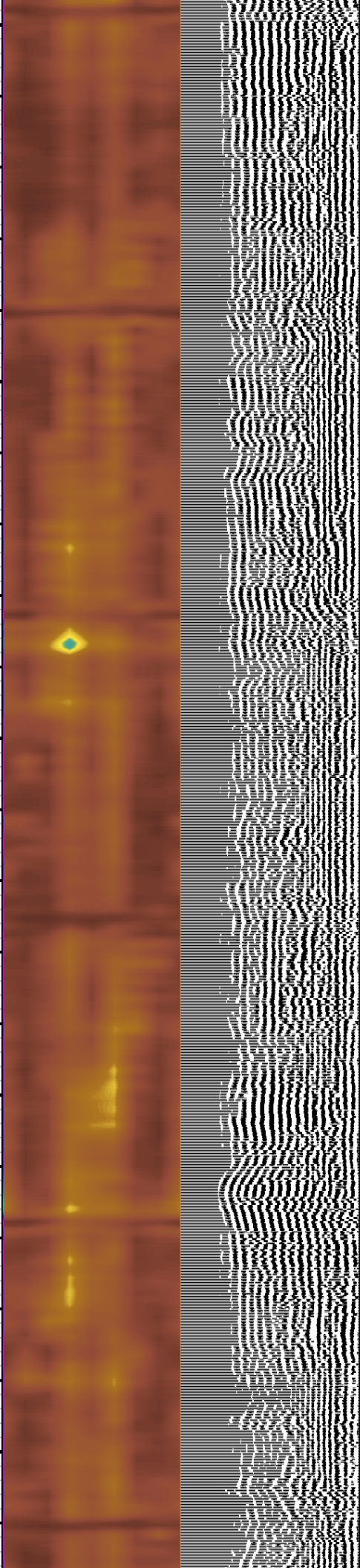
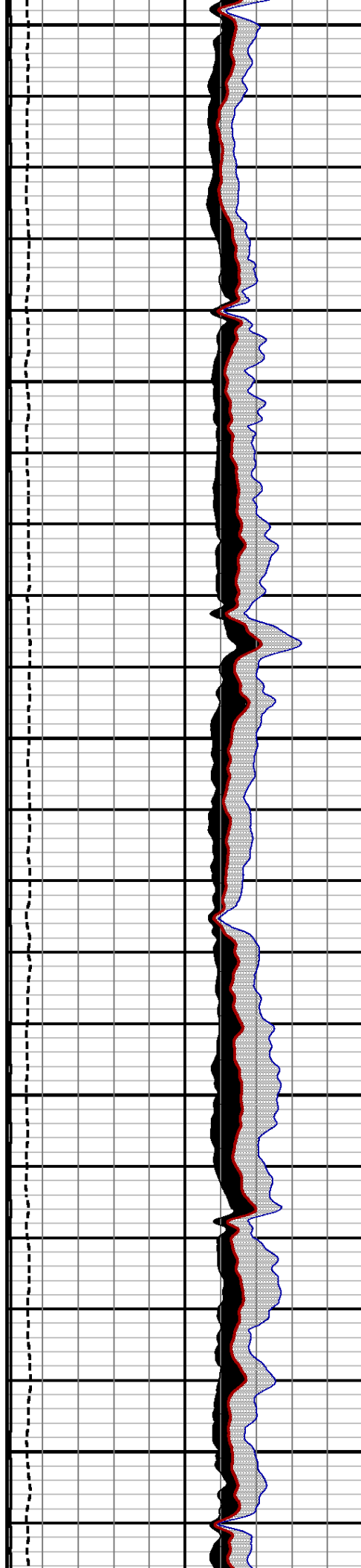


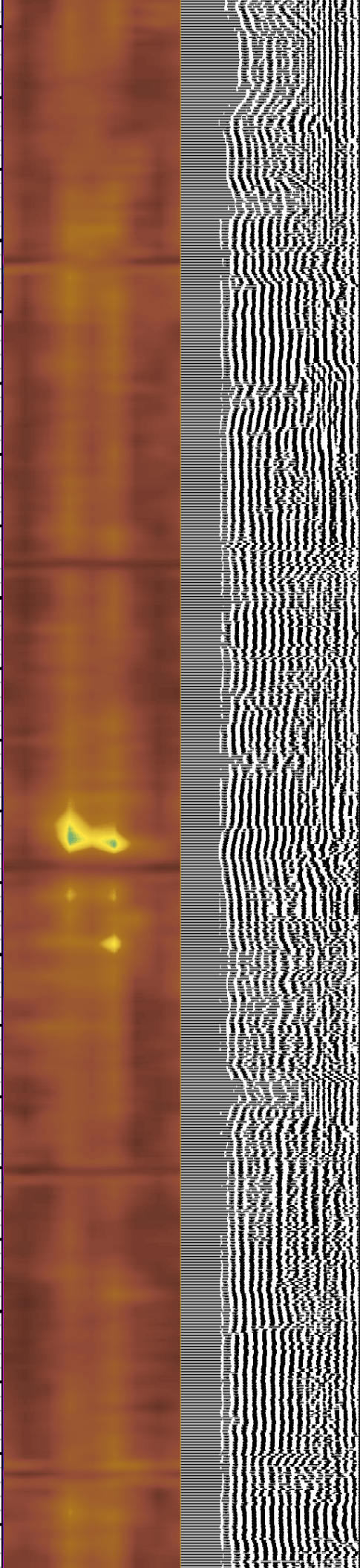
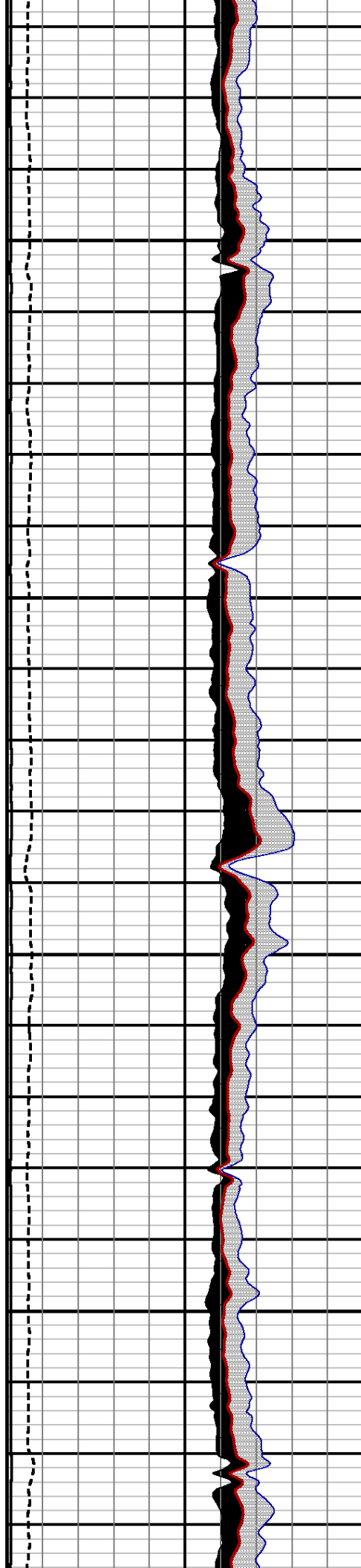
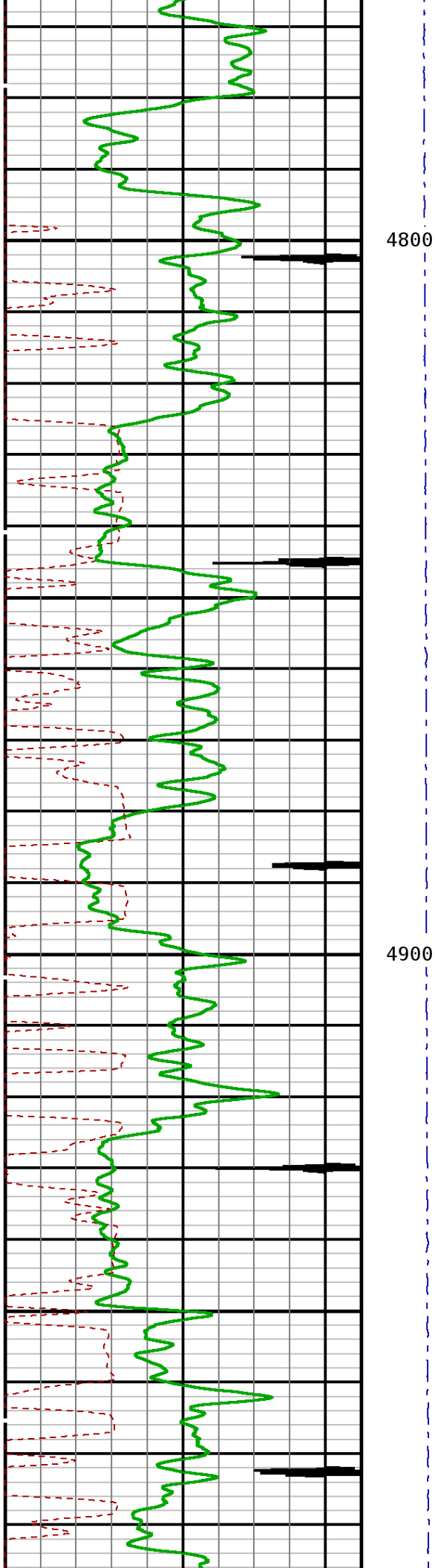


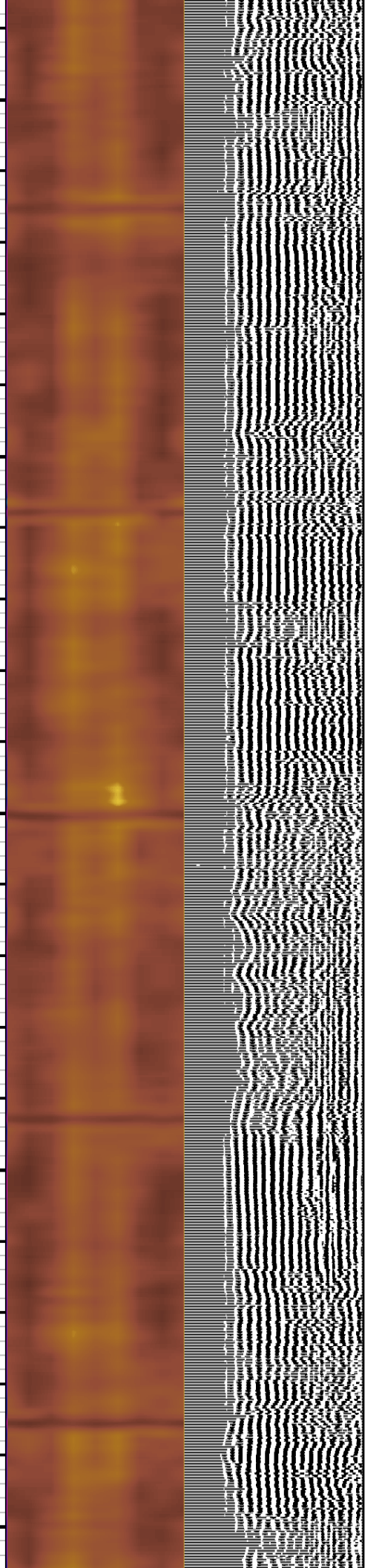
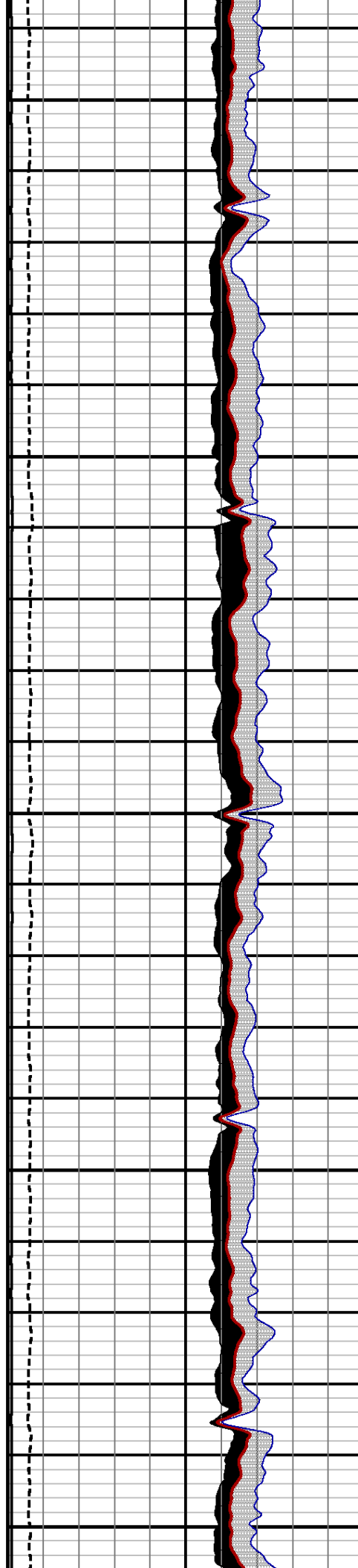
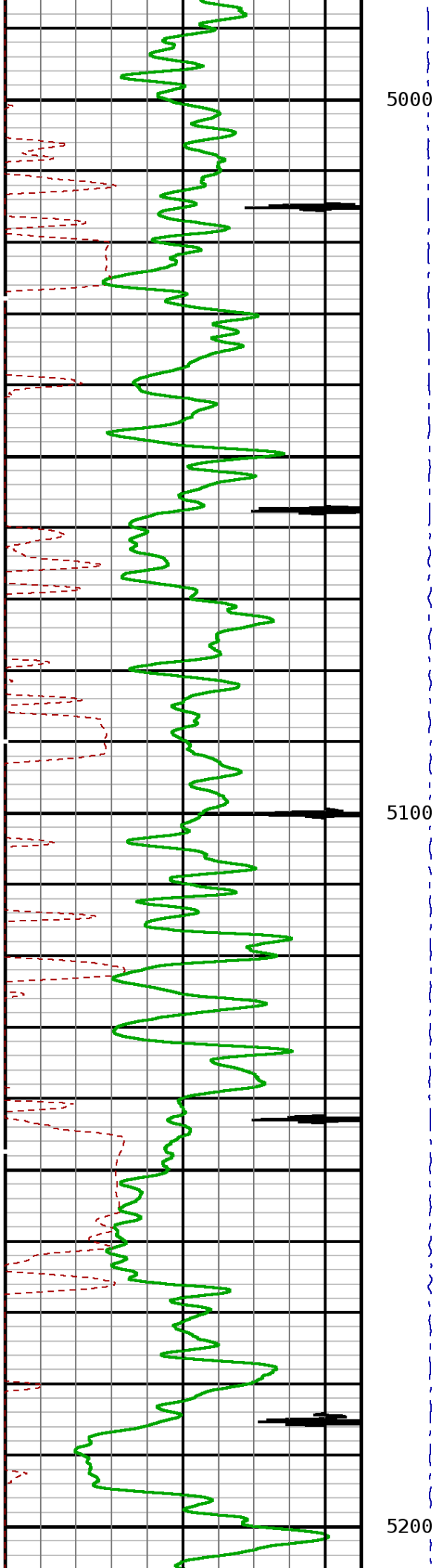


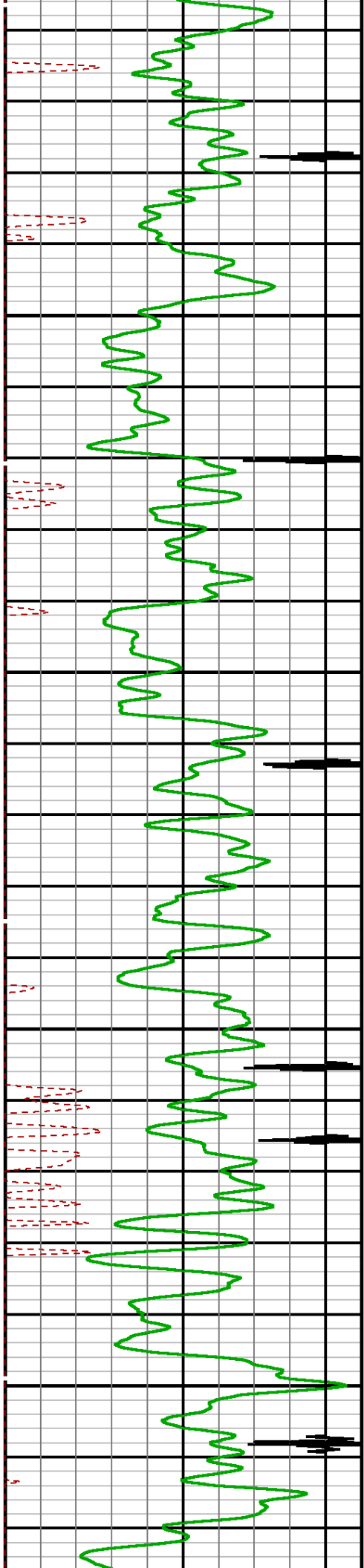
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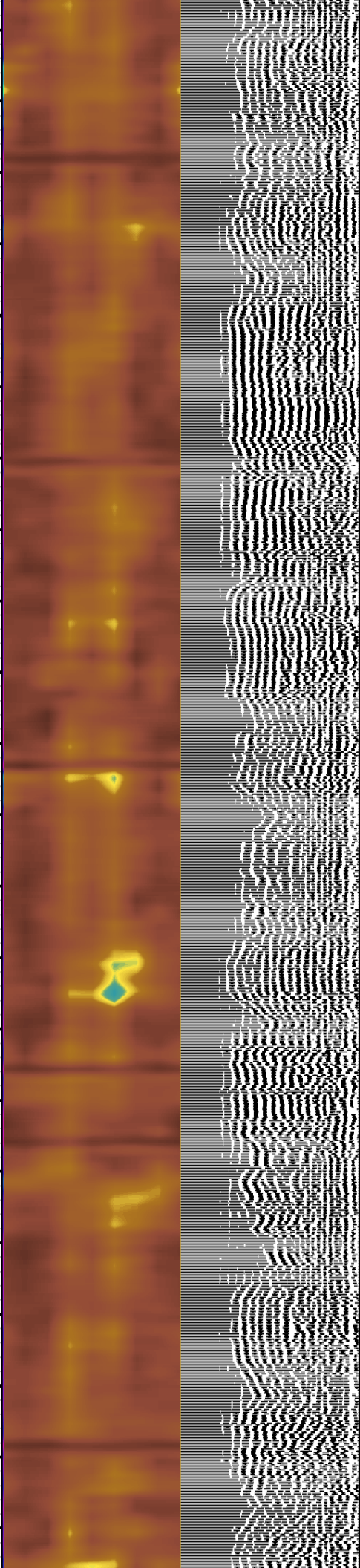
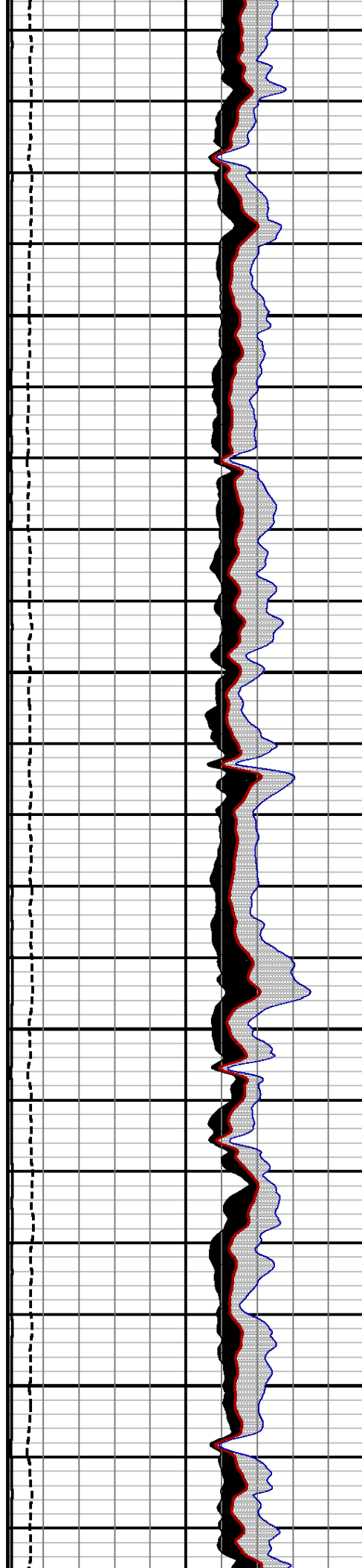


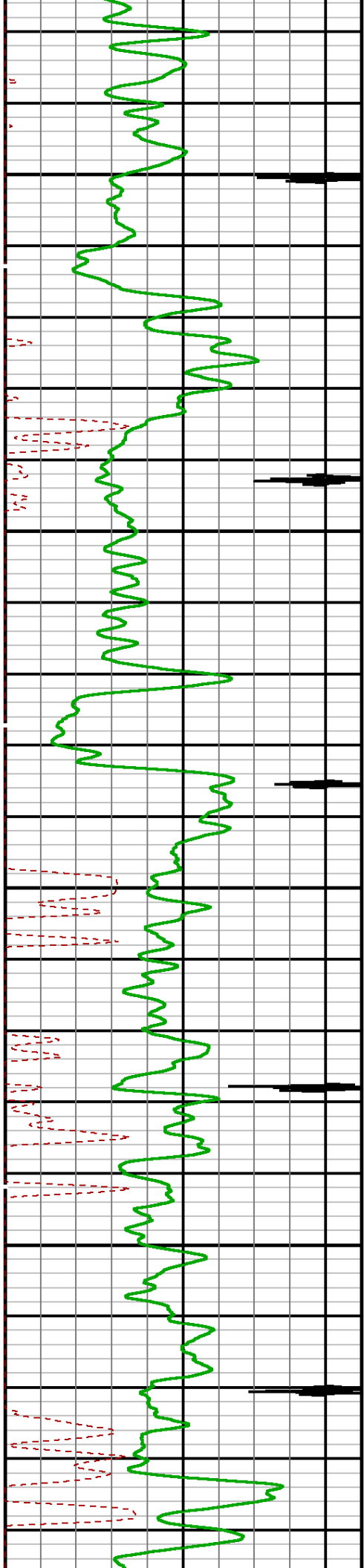




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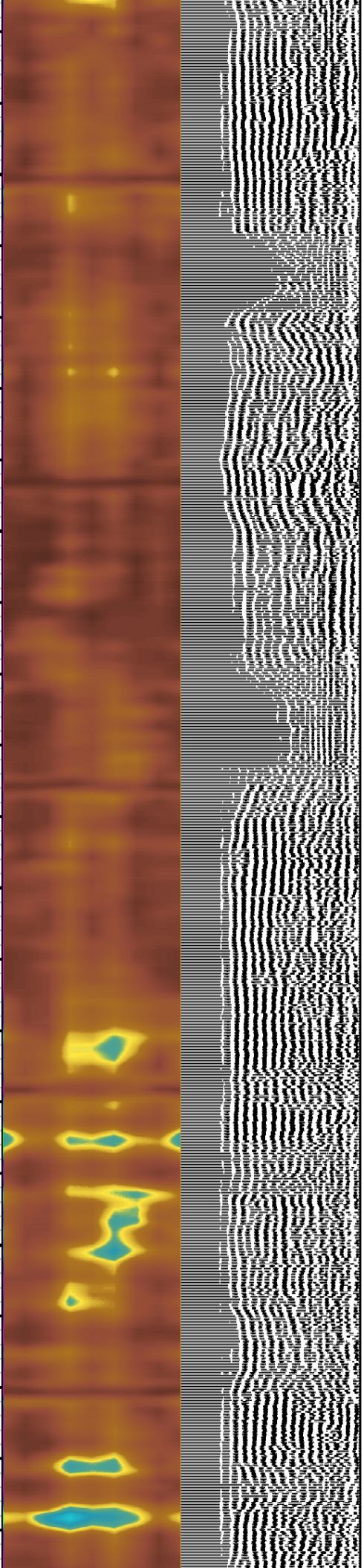
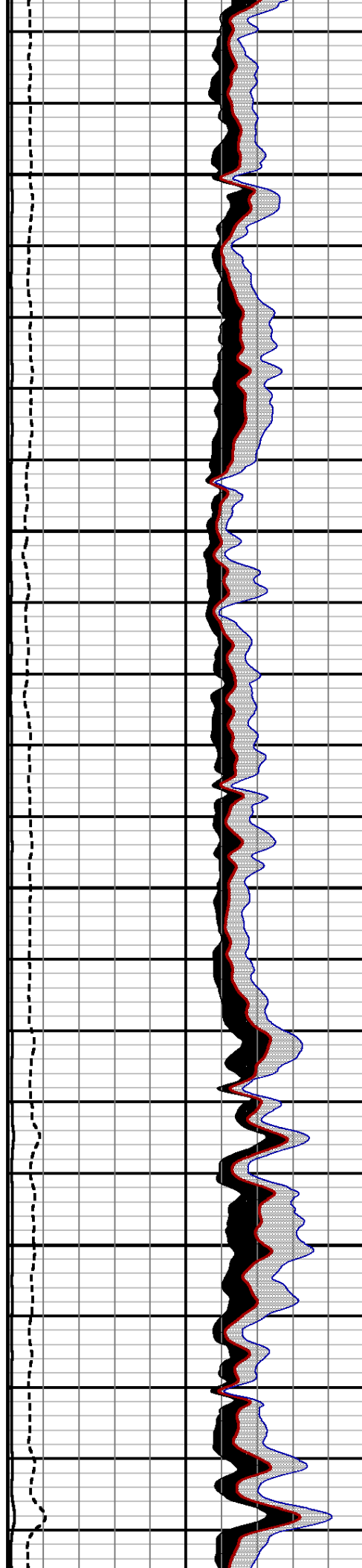
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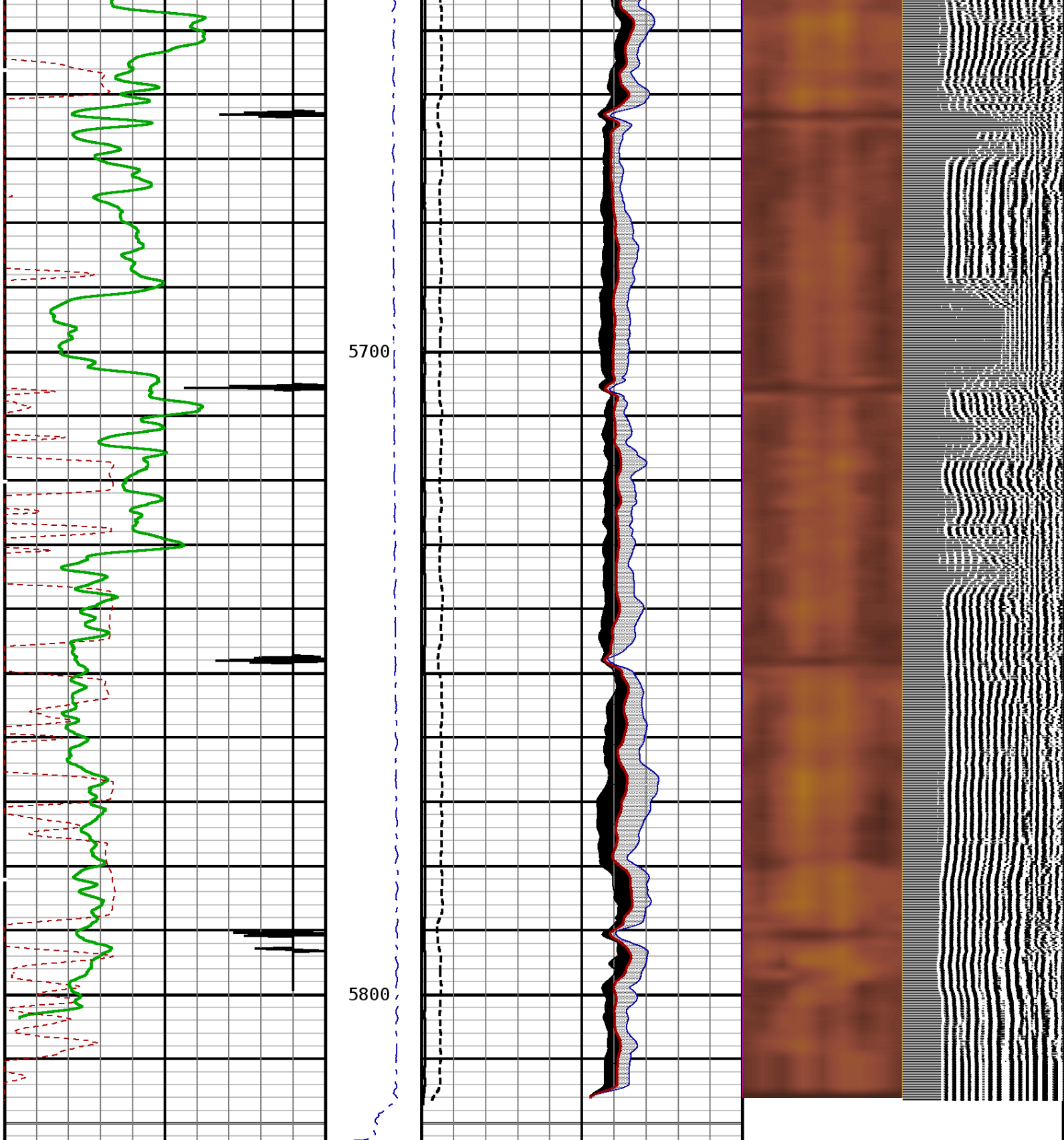





5500

5600





<div>TRAVEL TIME 3FT</div> <div>312 Microseconds 212</div>			<div>Tension</div> <div>0 2000</div>		<div>AMPLITUDE 3FT</div> <div>0 mv 100</div>		<div>MIN ENERGY</div> <div>0 mv 100</div>		<div>VARIABLE ENERGY</div> <div>0 mv 80</div> <div></div>		<div>VARIABLE DENSI</div> <div>200 us 1200</div>	
<div>GAMMA RAY</div> <div>0 API 150</div>			<div>3' AMP X 5</div> <div>0 mv 20</div>		<div>AVG ENERGY</div> <div>0 mv 100</div>		<div>MAX ENERGY</div> <div>0 mv 100</div>					
<div>CCL</div> <div>-3600 Millivolts 400</div>												

START DEPTH: 5823.0 DIRECTION: UP DATE: 03/08/2015 TIME: 20:14 MODE: ORIGINAL

113048458 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

113048458 SBTREPEAT

FINISH DEPTH: 5578.2 Feet DIRECTION: UP DATE: 03/08/2015 TIME: 20:20 MODE: ORIGINAL

CCL

-3600 Millivolts 400

GAMMA RAY

0 API 150

TRAVEL TIME 3FT

312 Microseconds 212

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

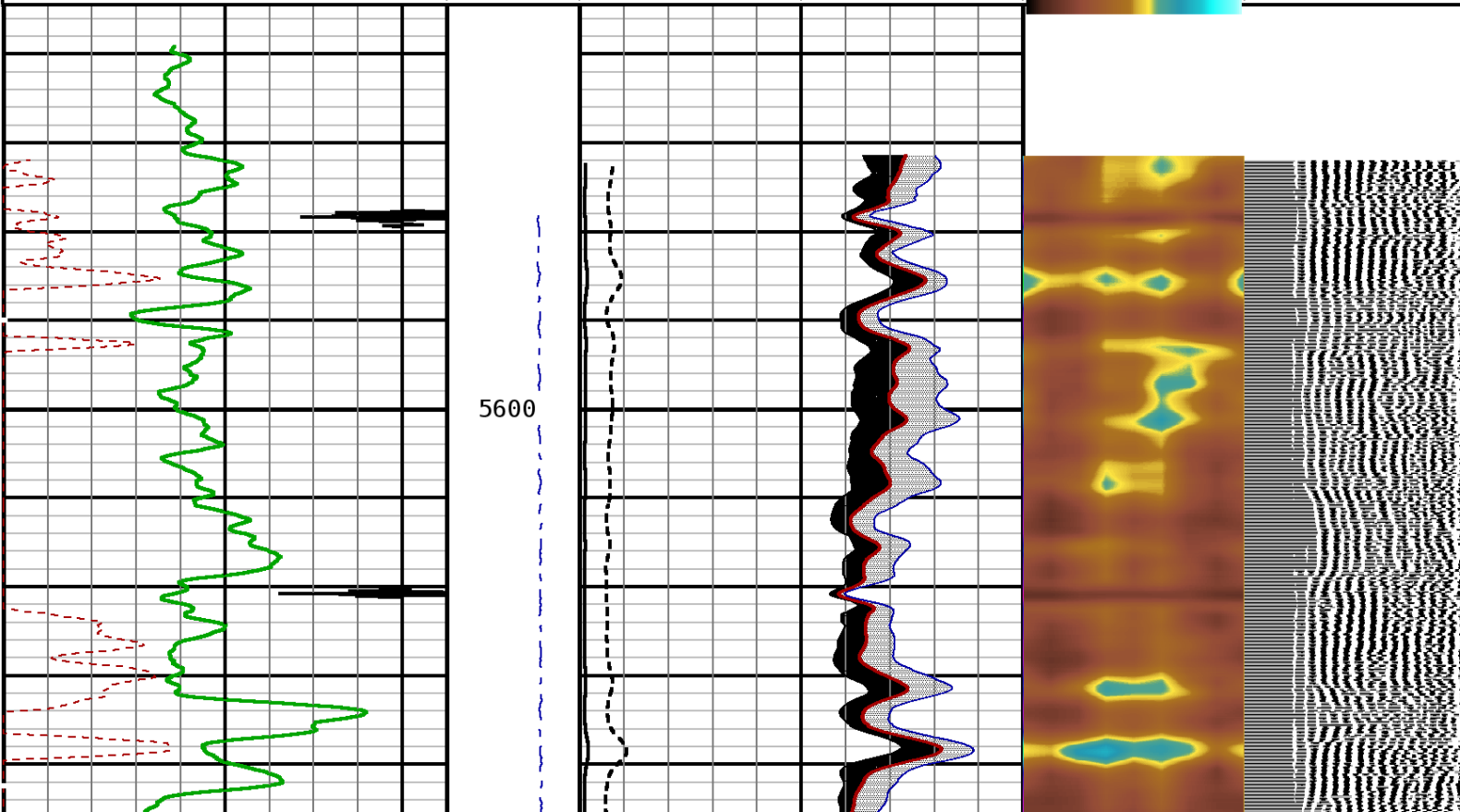
0 mv 100

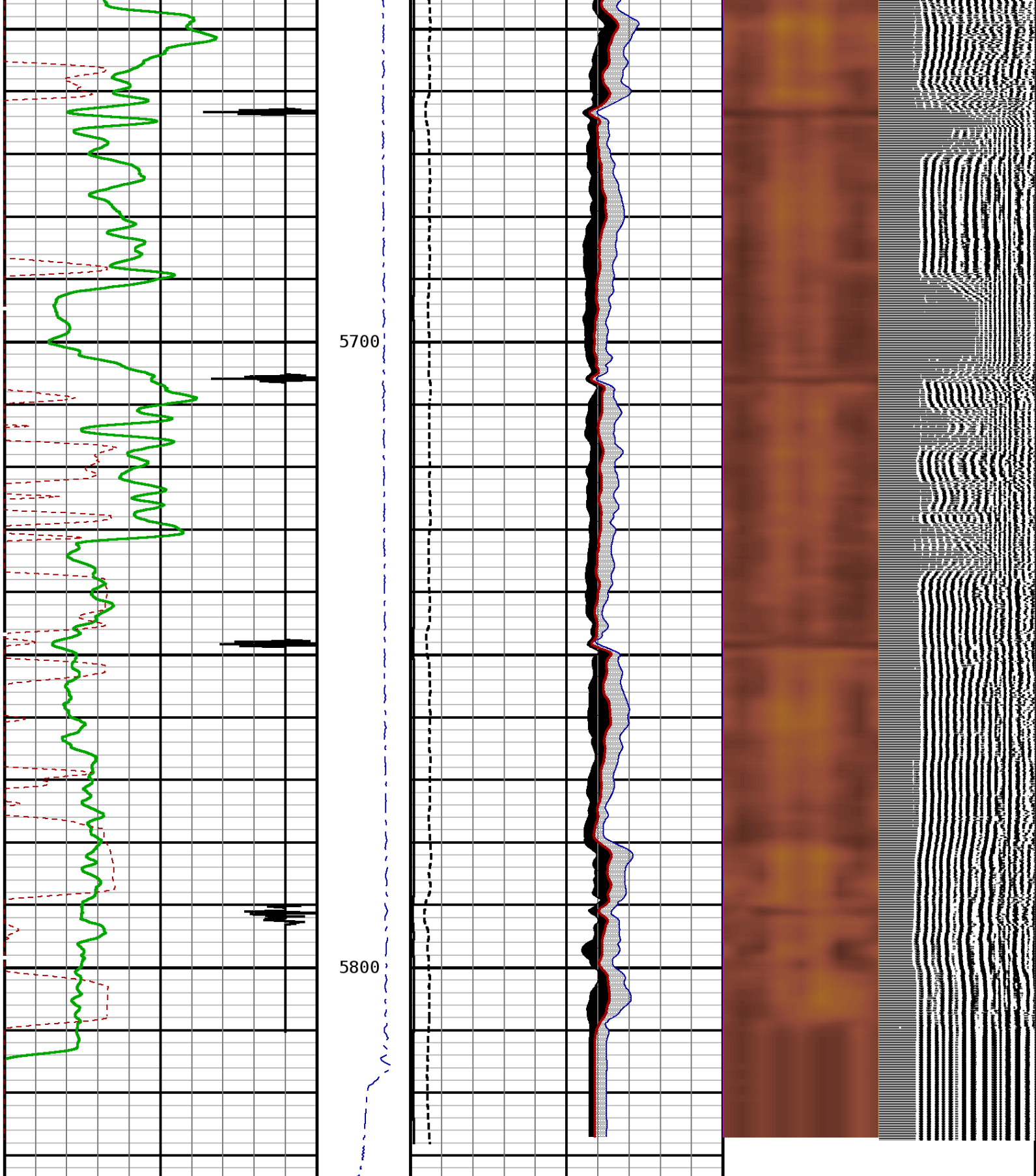
VARIABLE ENERG

0 mv 80

VARIABLE DENSI

200 us 1200





TRAVEL TIME 3FT			Tension		AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERGY		VARIABLE DENSI					
312	Microseconds	212	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
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START DEPTH: 5833.9 DIRECTION: UP DATE: 03/08/2015 TIME: 20:20 MODE: ORIGINAL

113048458 SBTREPEAT

REPEAT PASS

DEPTH 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

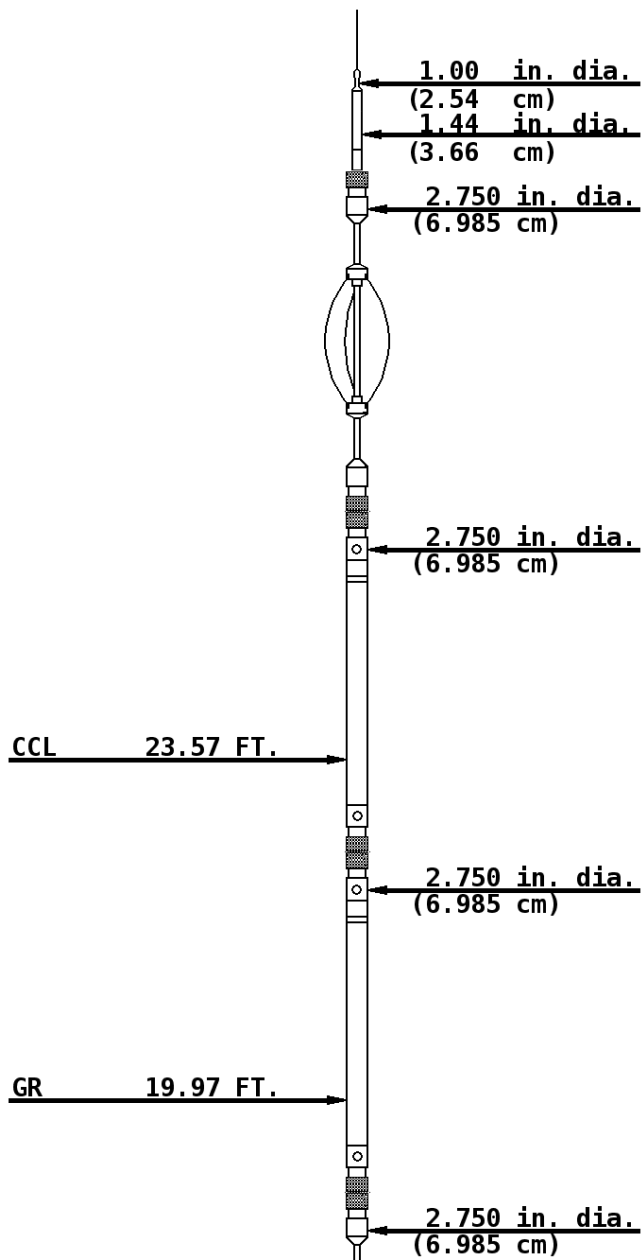
Weight 15 lbs
Length 2.49 FT.
Max. Diameter 2.750 IN.

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.



Slim Hole Centralizer

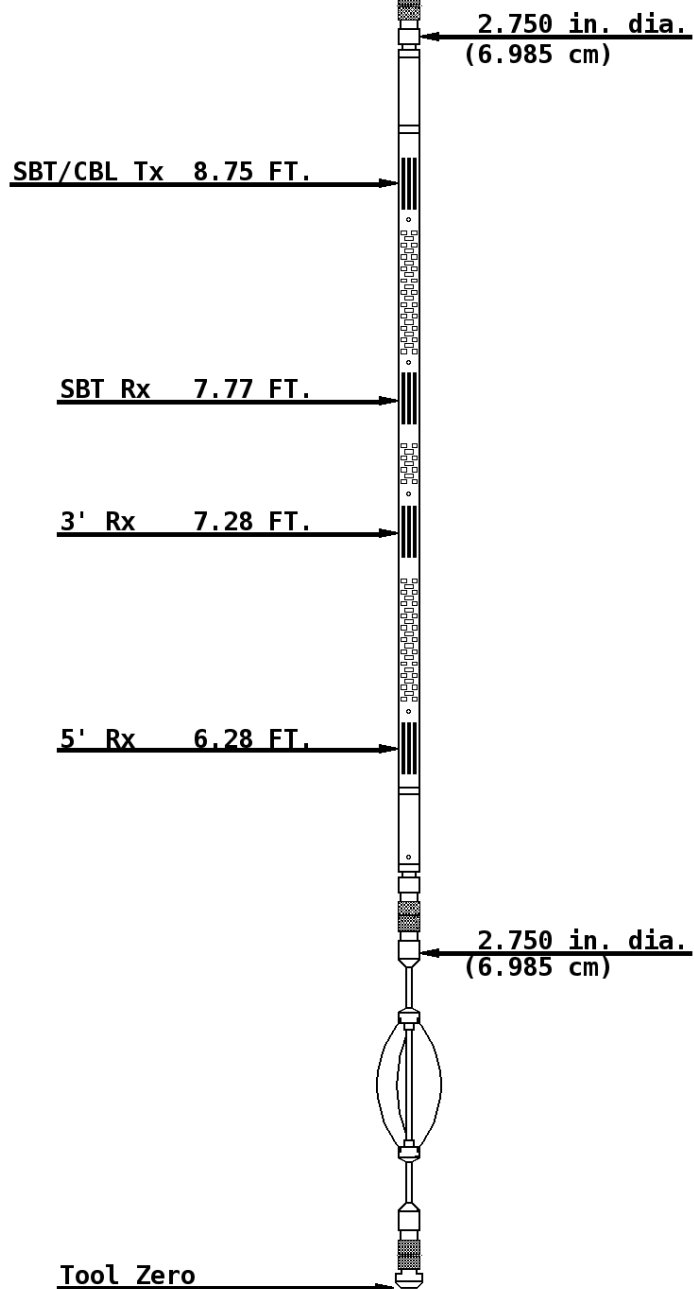
Weight 22 LBS.
Length 3.08 FT.
Max. Diameter 2.750 IN.

Sector Bond

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

Slim Hole Centralizer

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



COMPANY URSA OPERATING COMPANY

WELL BAT 24C-24-07-96

FIELD BATTLEMENT MESA

COUNTY GARFIELD

STATE COLORADO



Weatherford®

