



# CEMENT BOND LOG

COMPANY	URSA OPERATING COMPANY
WELL	VALLEY FARMS 41A-14-06-92
FIELD	GRAVEL TREAD
COUNTY	GARFIELD
	ST/

STATE OF COLORADO

**OTHER SERVICES:**

SHL: 1214'	FSL & 1167'	FEL
BHL: 0140'	FNL & 0660'	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	18-JAN-2015
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Run No.		
ONE		

DEPTH DRILLER	7660'		
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DEPTH LOGGER	7466'		
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BTM. LOG INTERVAL	7460'		
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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.	VISC.	8.3	N/A			
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MAX. REC. TEMP. °F			
N/R			

EST. CEMENT TOP	N/A		
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TIME WELL READY	ROA		

TIME	LOGGER ON BTM.	SEE LOG	
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EQUIP. NO.	14247		
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LOCATION	CASPER

RECORDED BY	P. MAZUR		
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WITNESSED BY	NOT WITNESSED

BOBHOLE RECORD	TIRING RECORD

BLIN NO	BIT	EBOM	TO	STZE	WGT	EBOM	TO
DAILY RECORD				TOTAL RECORD			

[illegible][illegible]



[illegible]

CASING RECORD	SIZE	W/I/I	SIMPLE	PIPE JOINT	LOT	DEPTH
SUBSEACE STRUNG	8 625"				SLIPE	1000'

STBINC	4 E"	11 6		SLIBE	76E4'
30N	8.023			30N	1000
30N	ACE	3IKING			
30N	STB	INC			
30N	STB	INC			

BRND	STPTNG				
FNOI: SIKING	4:3	11:0		SUN-	/034

FINED					
FINED: SIKING					

	LINEAR				


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 # 108796022
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LOG WAS CORRELATED TO WEATHERFORD PULSED NEUTRON DECAY LOG DATED 18-JAN-2015 BHT 183 °F

## ALL LOGGED INTERVALS PER CUSTOMER REQUEST

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**Prints: 2**

**THANK YOU FOR CHOOSING WEATHERFORD WIRELINE SERVICES CASPER, WY**

## EQUIPMENT DATA

[illegible]

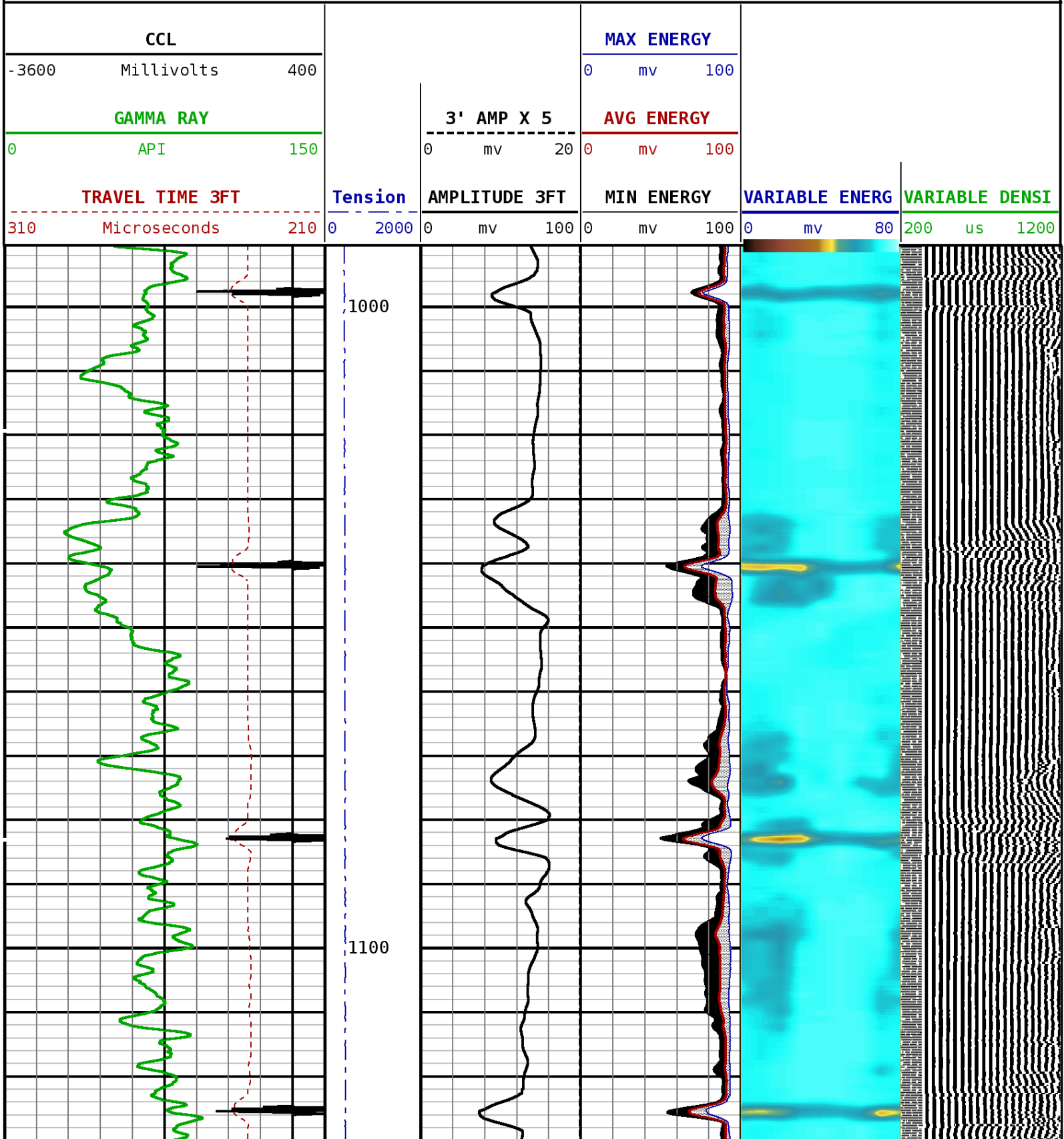
DEPTH SCALE: 5":100'

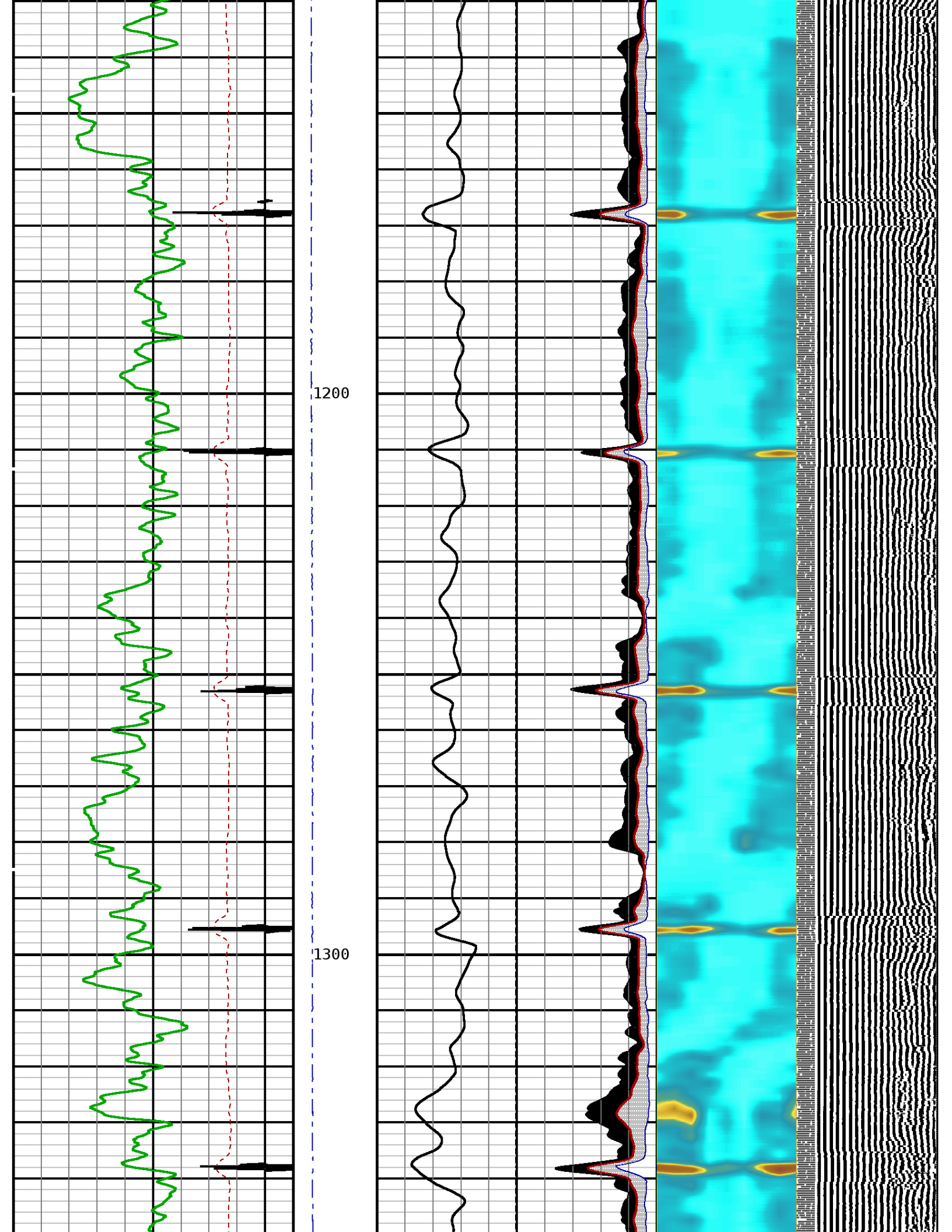
PROCESSED VERSION: 2012.07.18.162"

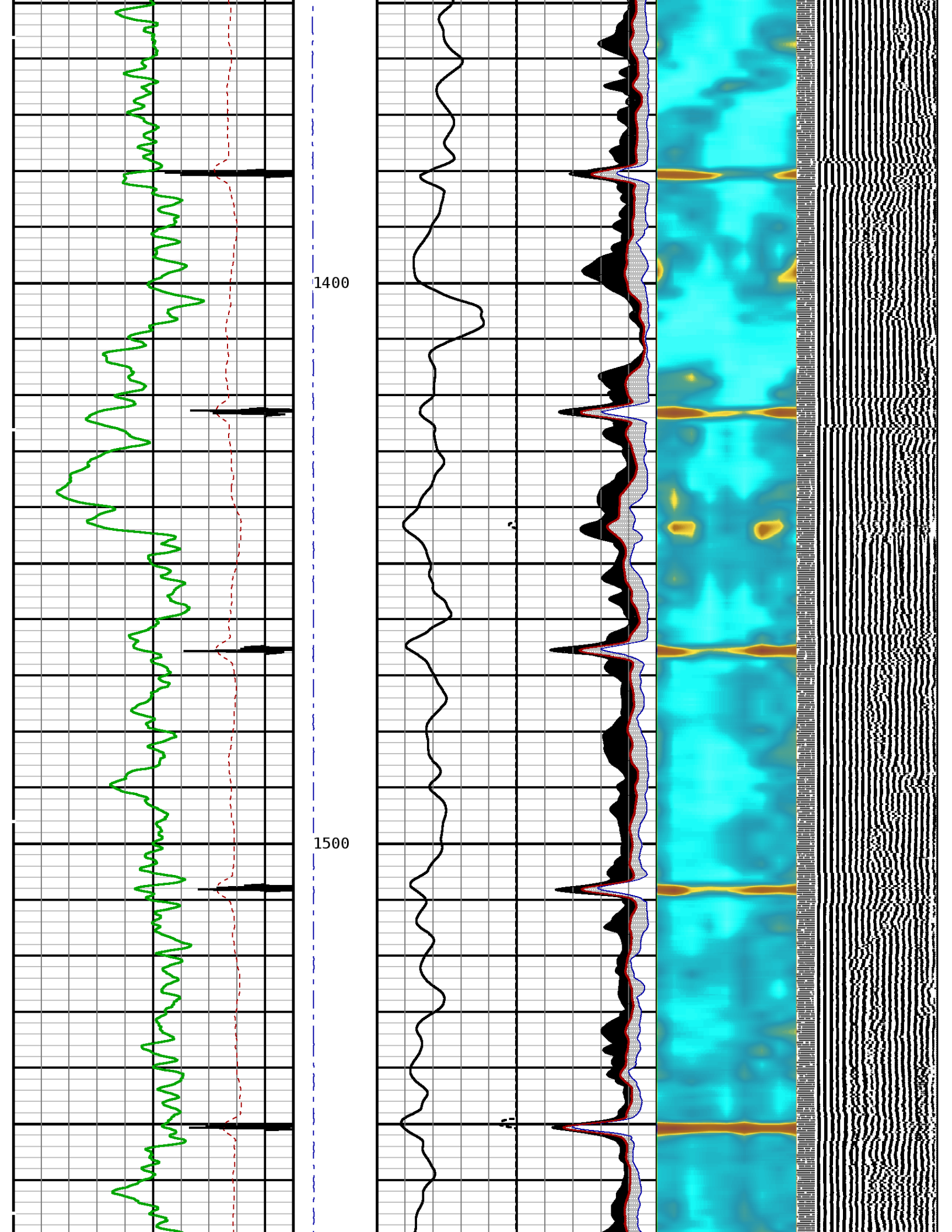
MAIN PASS

108796022 SBTMAIN

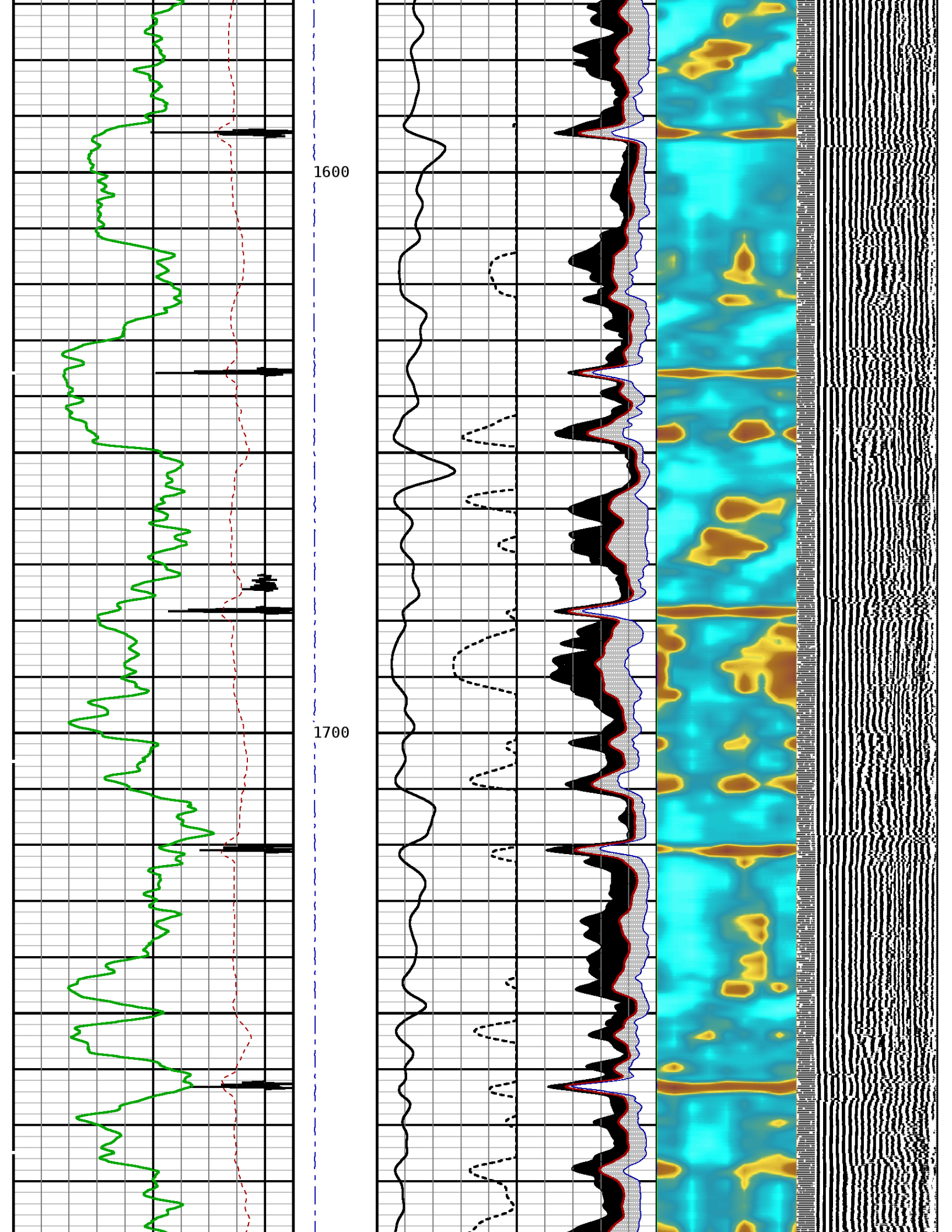
FINISH DEPTH: 990.6 Feet DIRECTION: UP DATE: 01/20/2015 TIME: 09:42 MODE: ORIGINAL

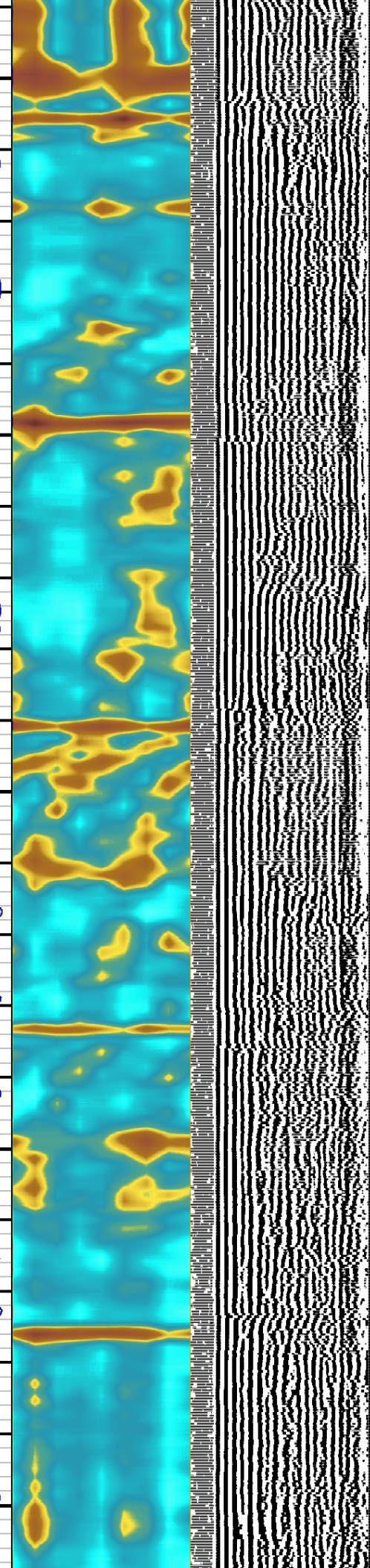
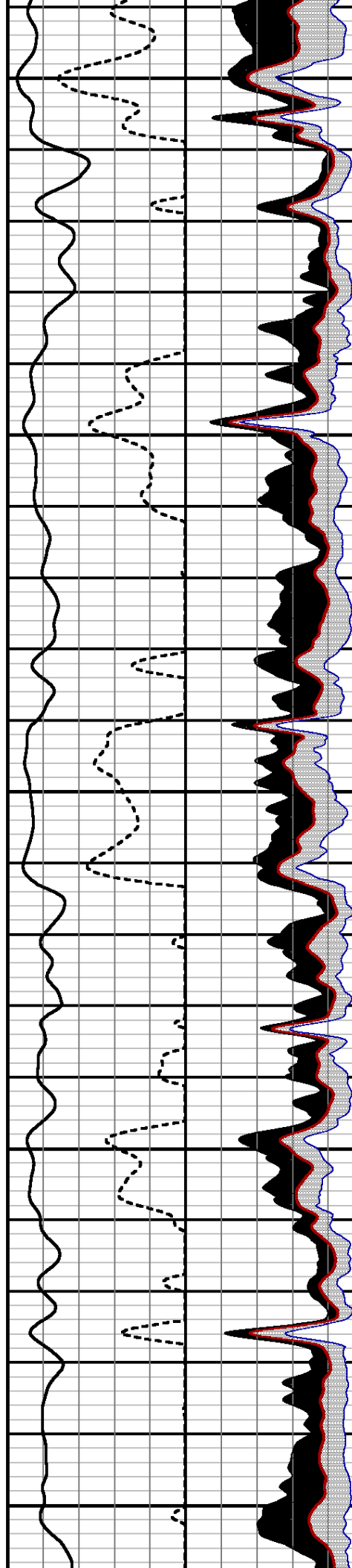
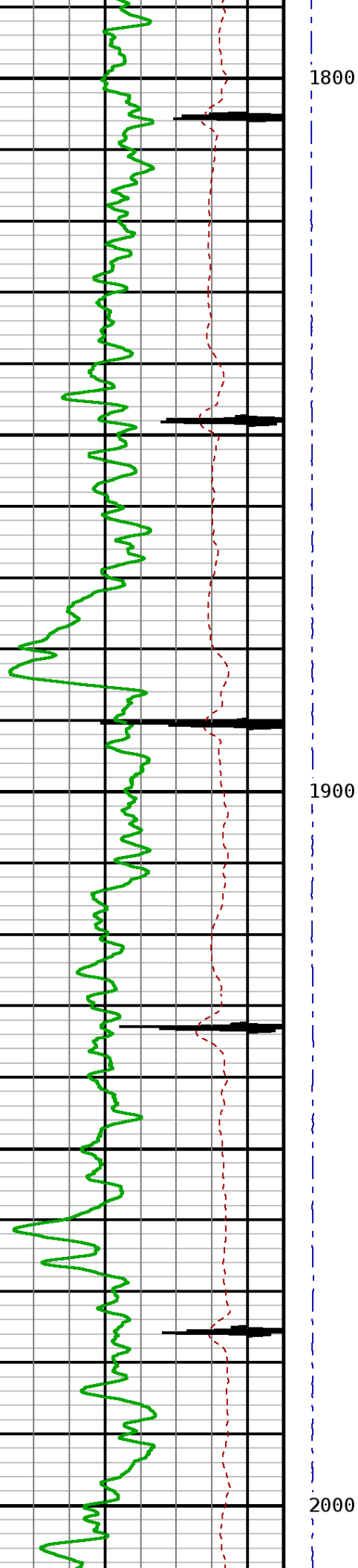




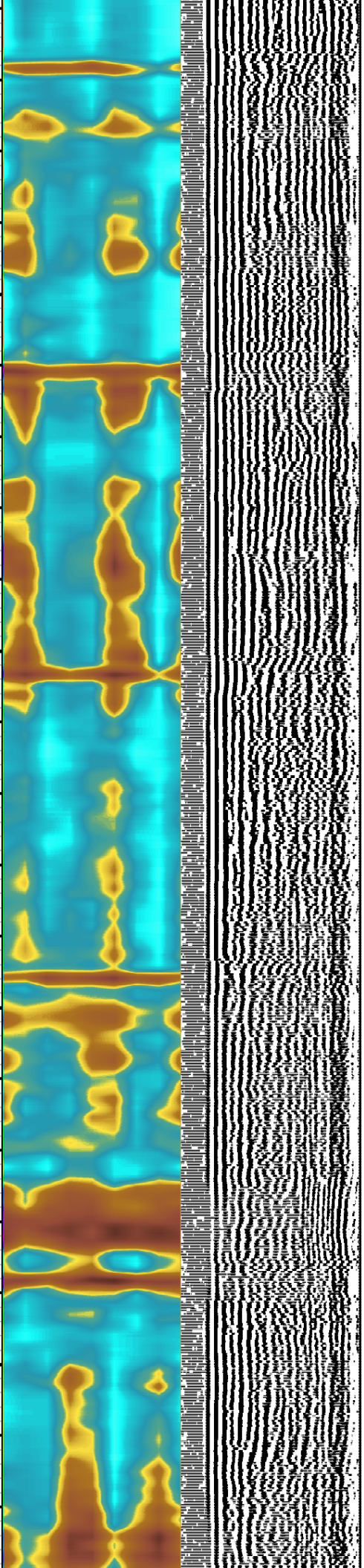
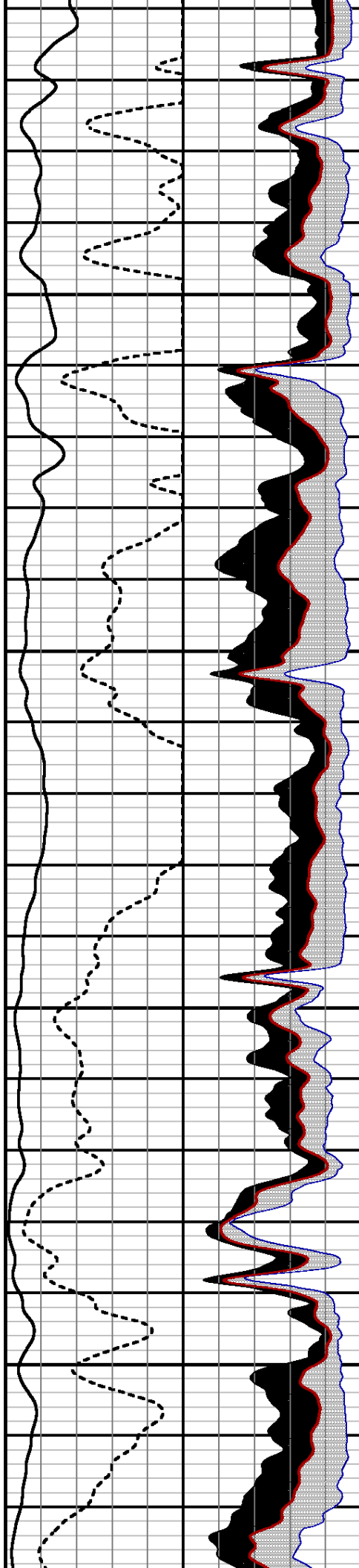
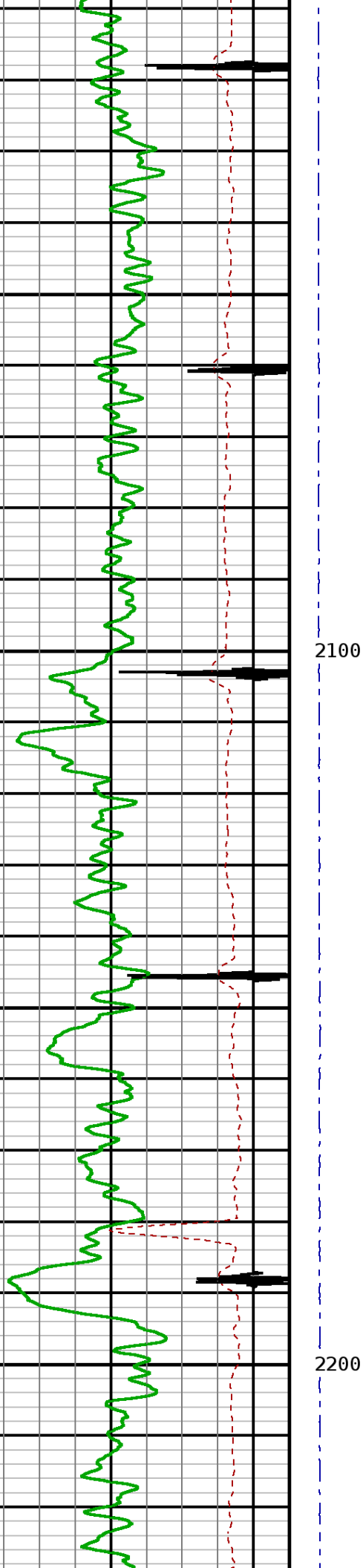


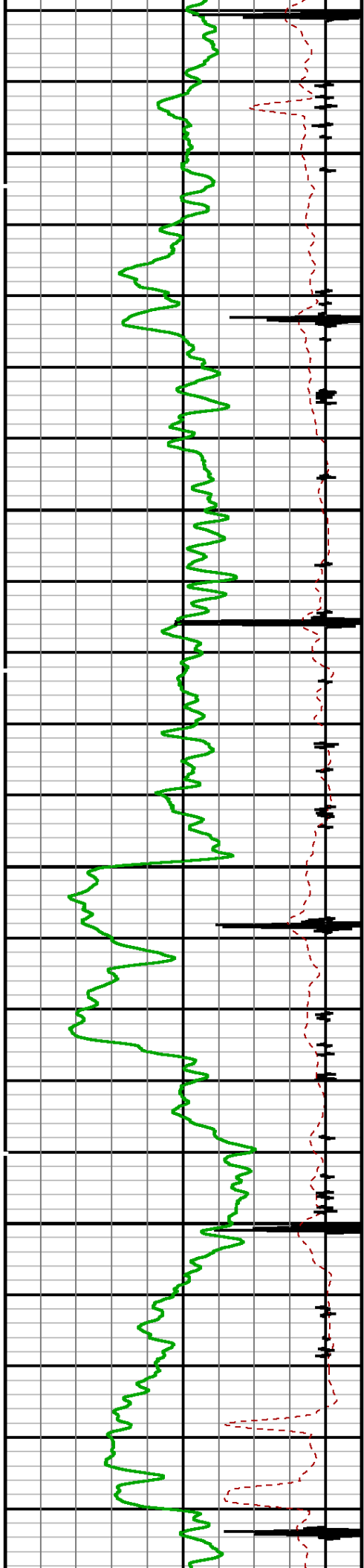






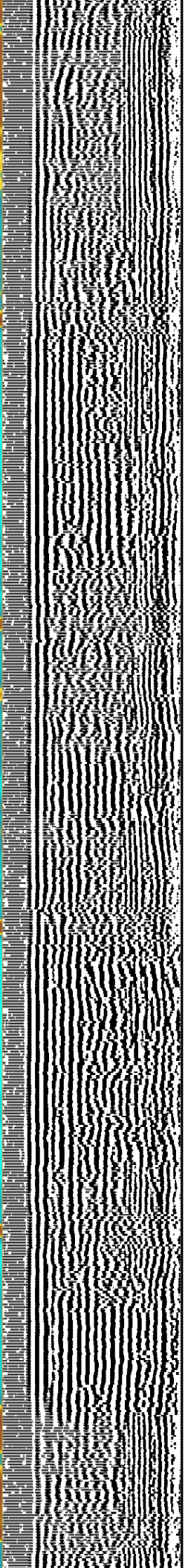
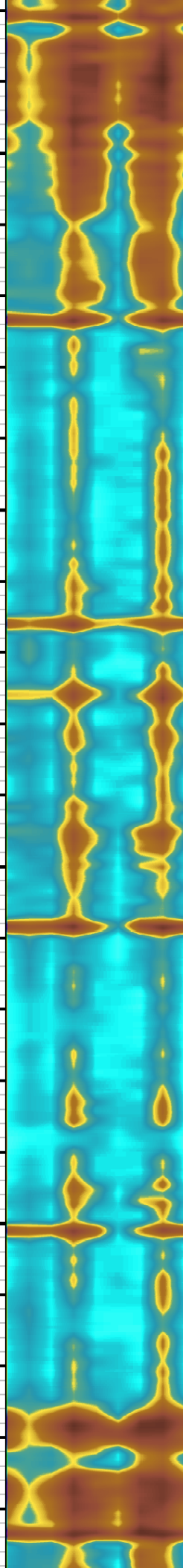
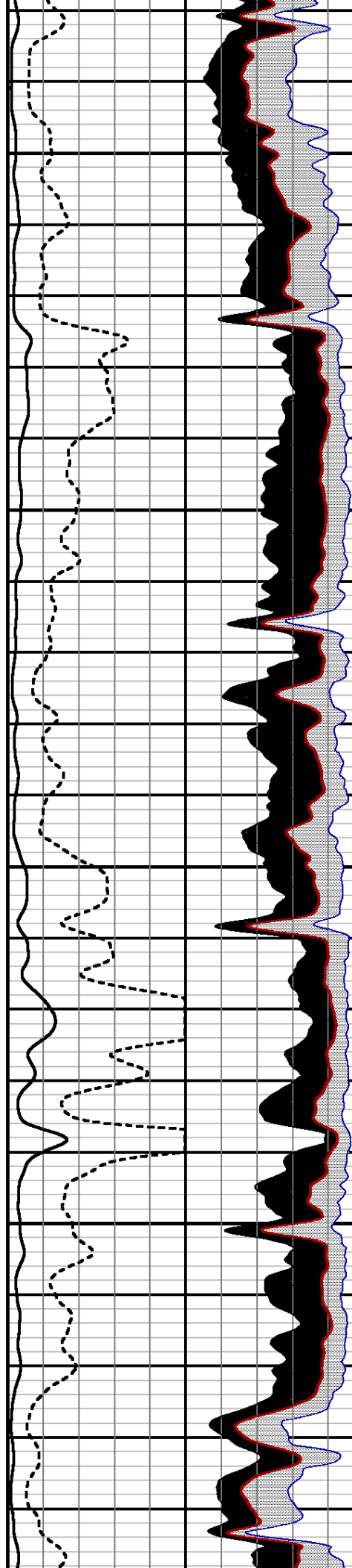




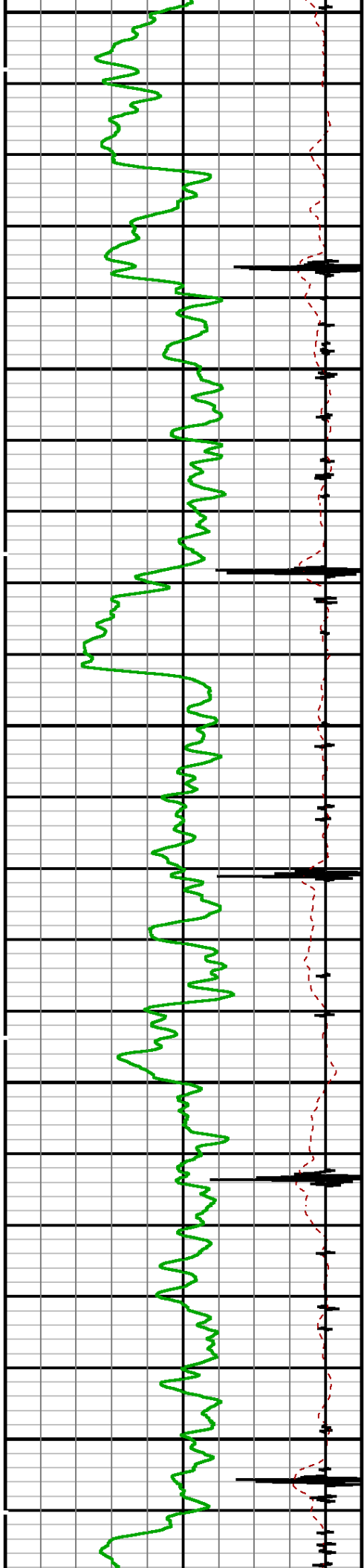


2300

2400

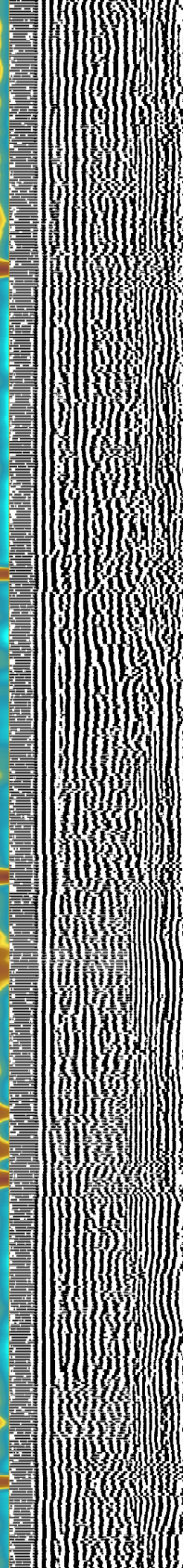
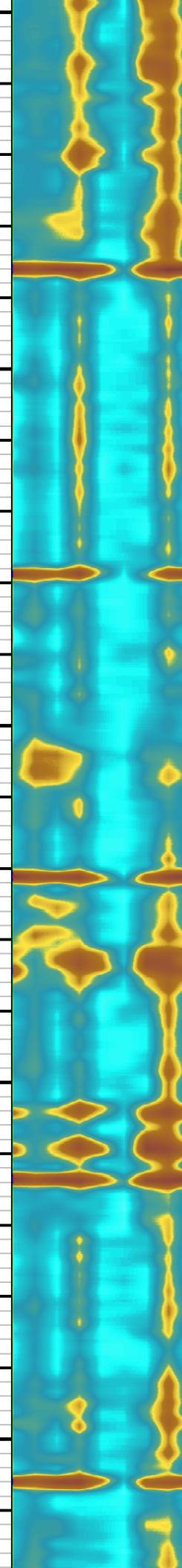
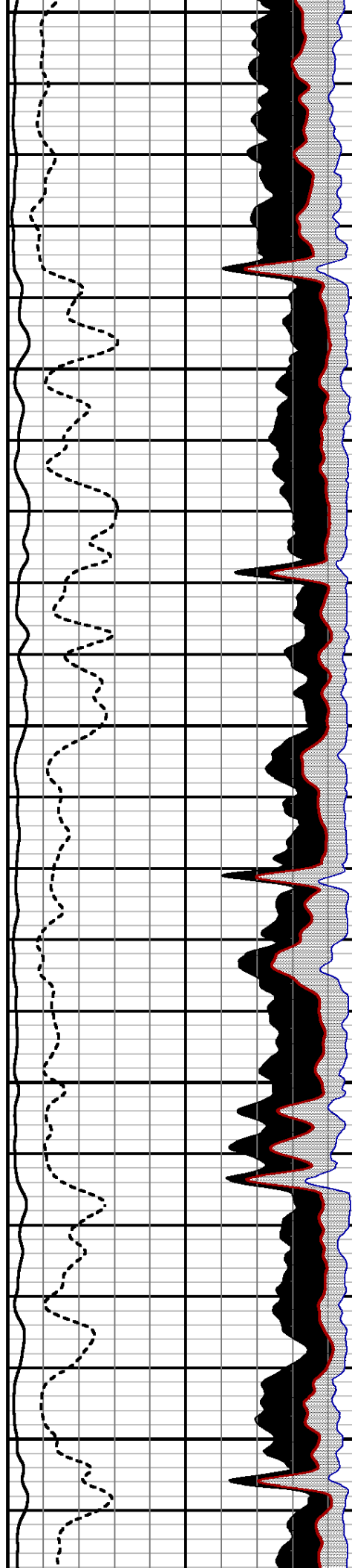


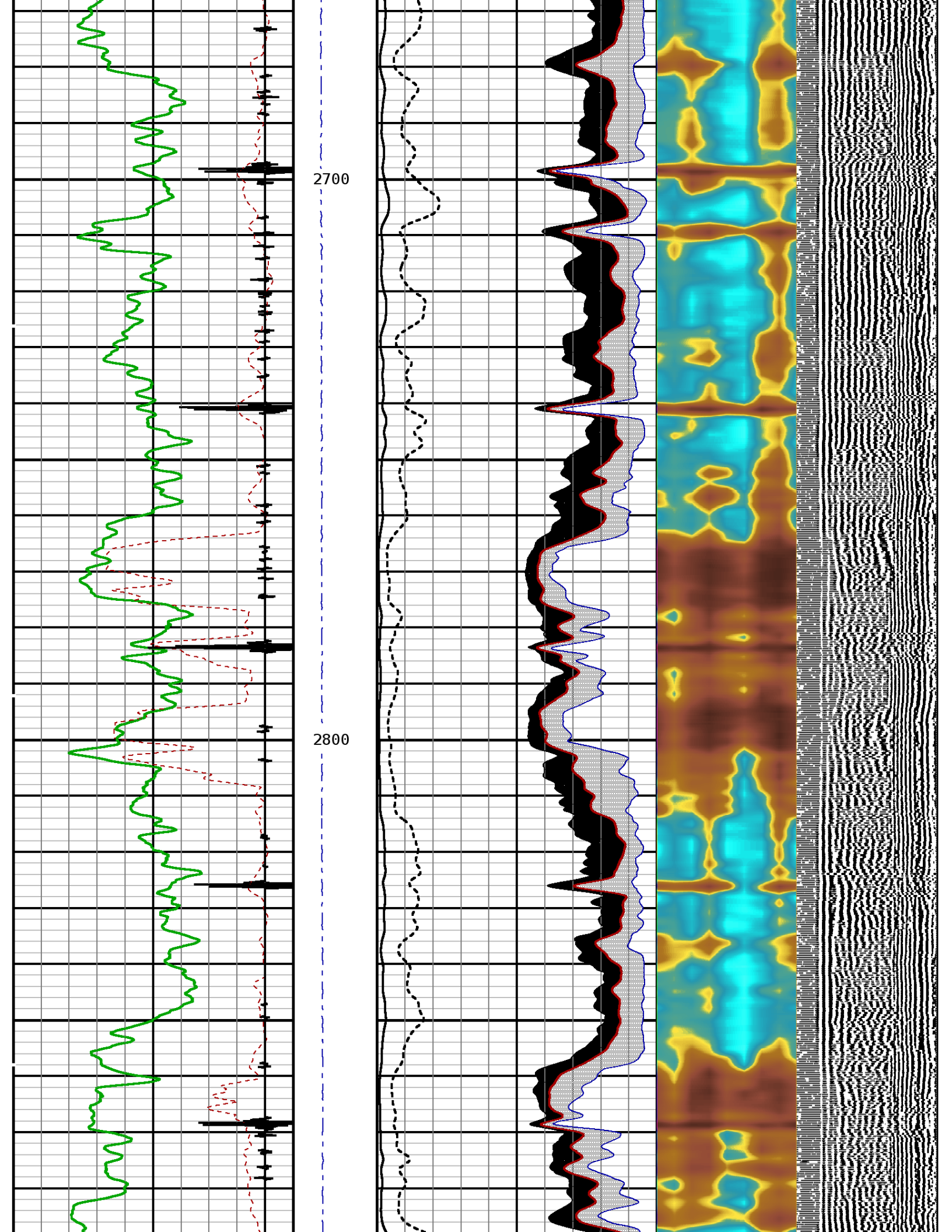




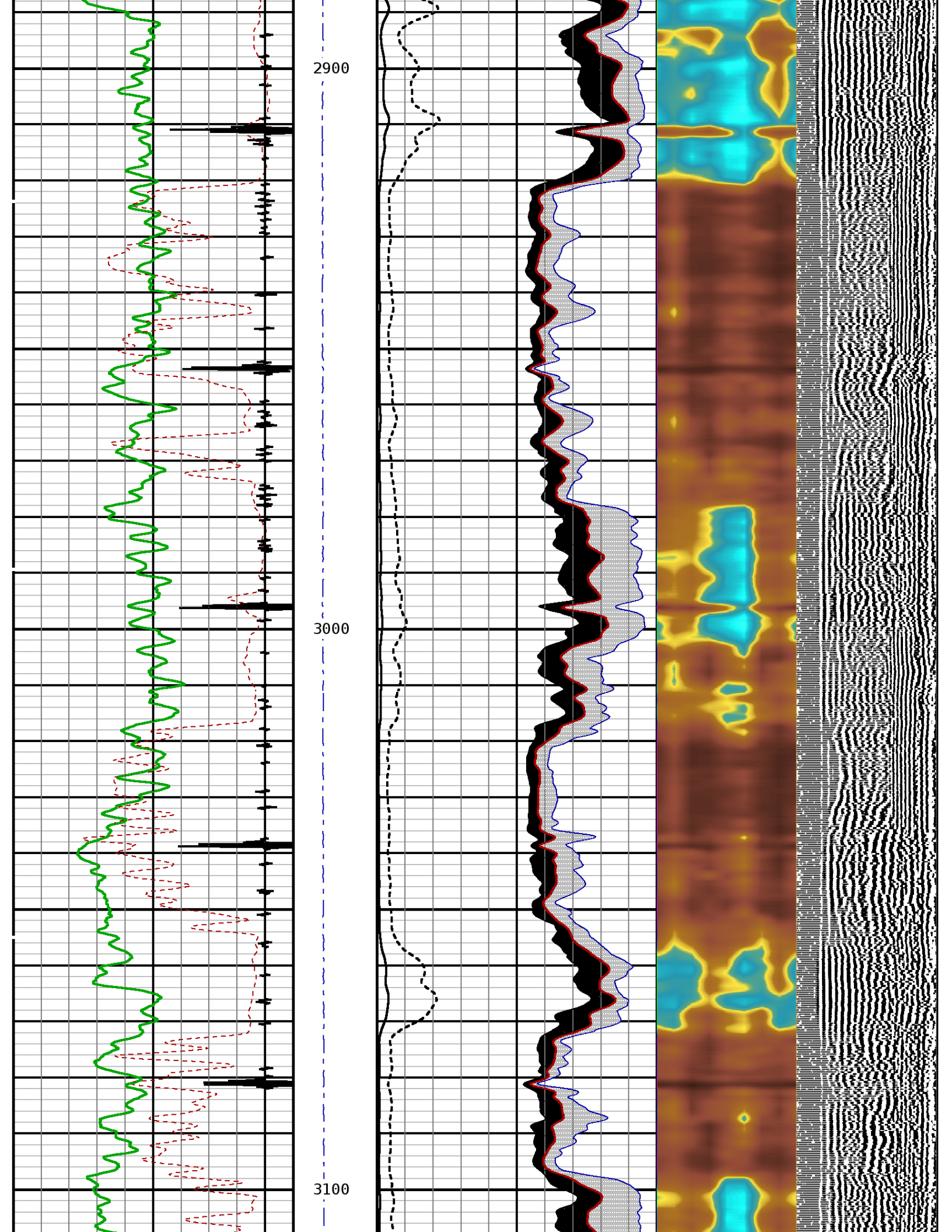
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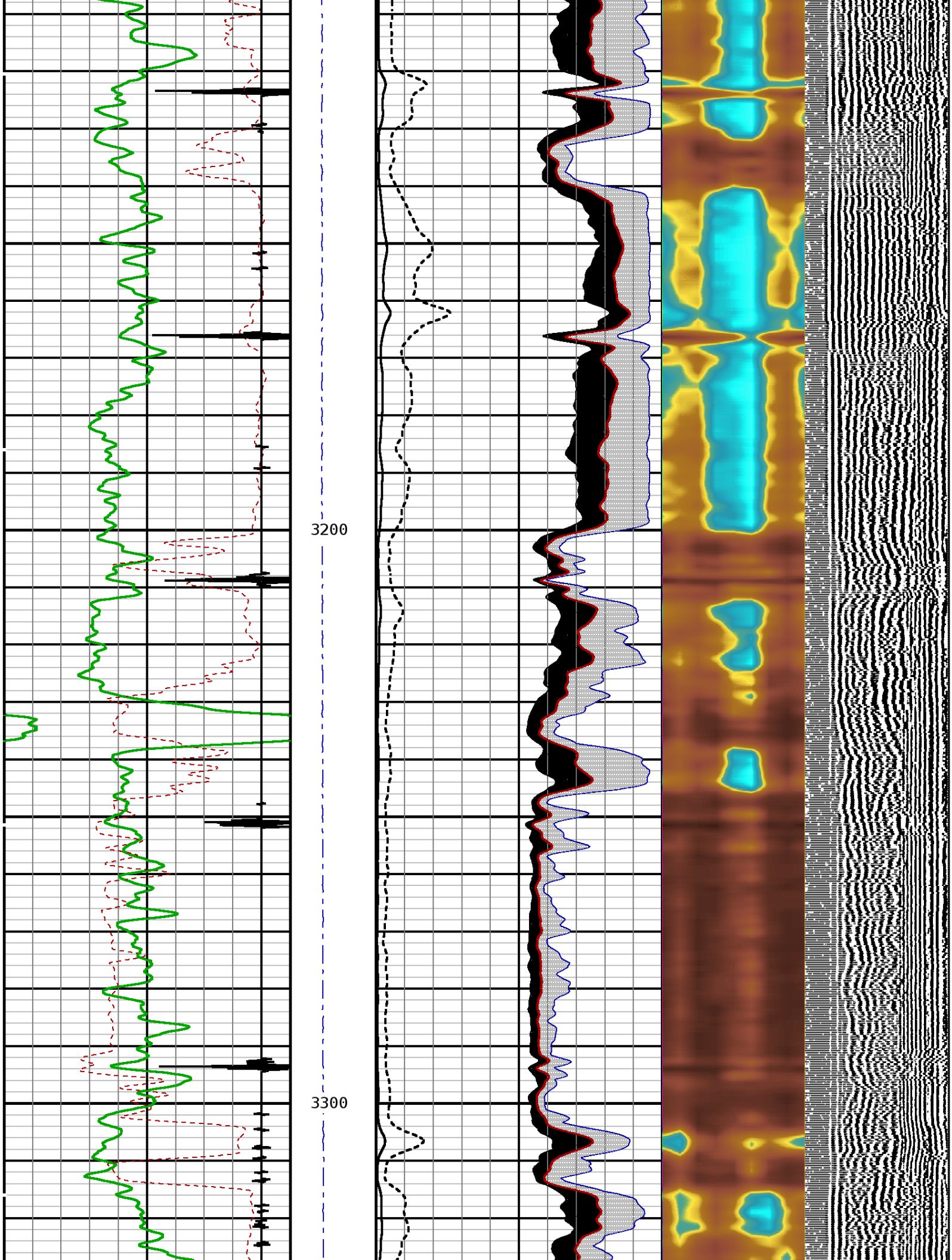
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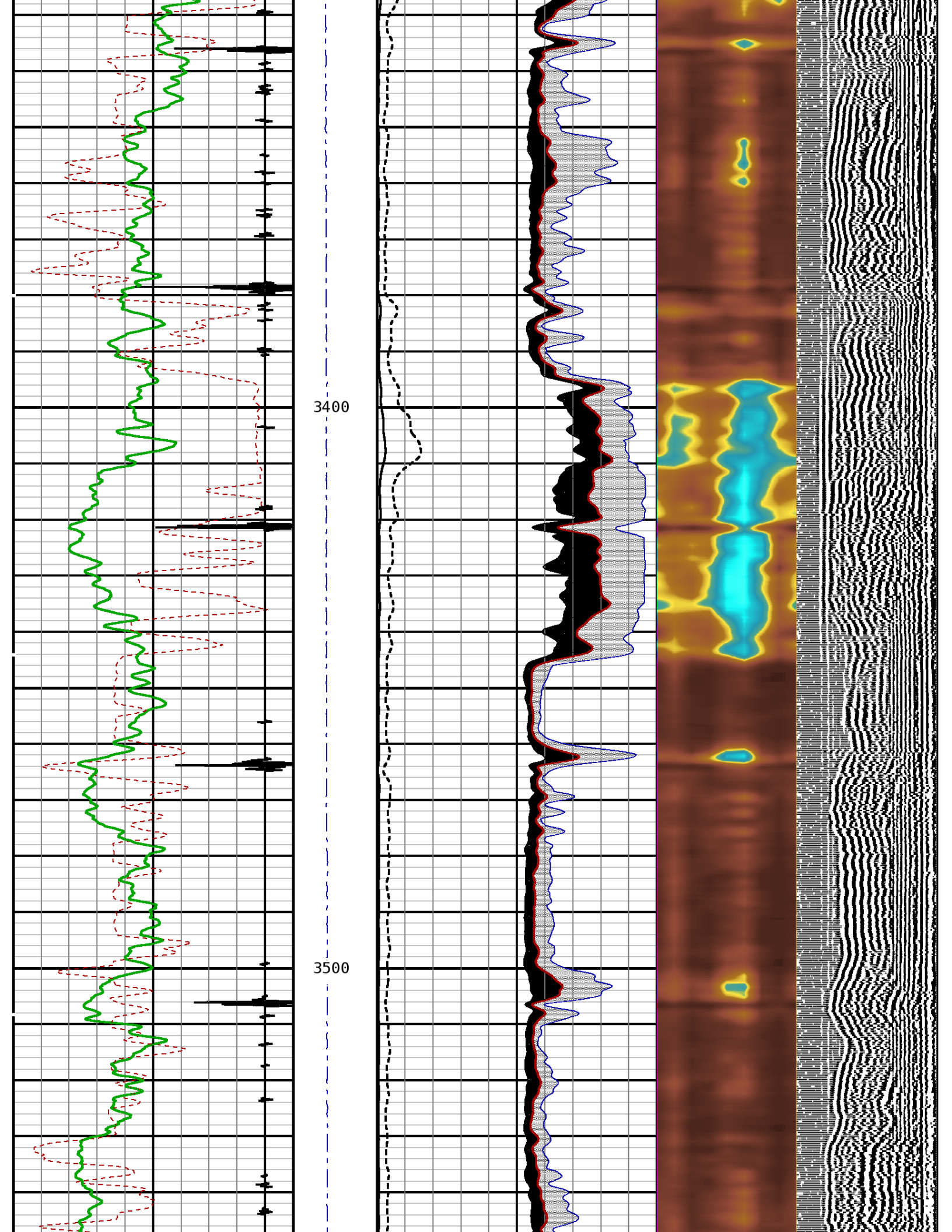


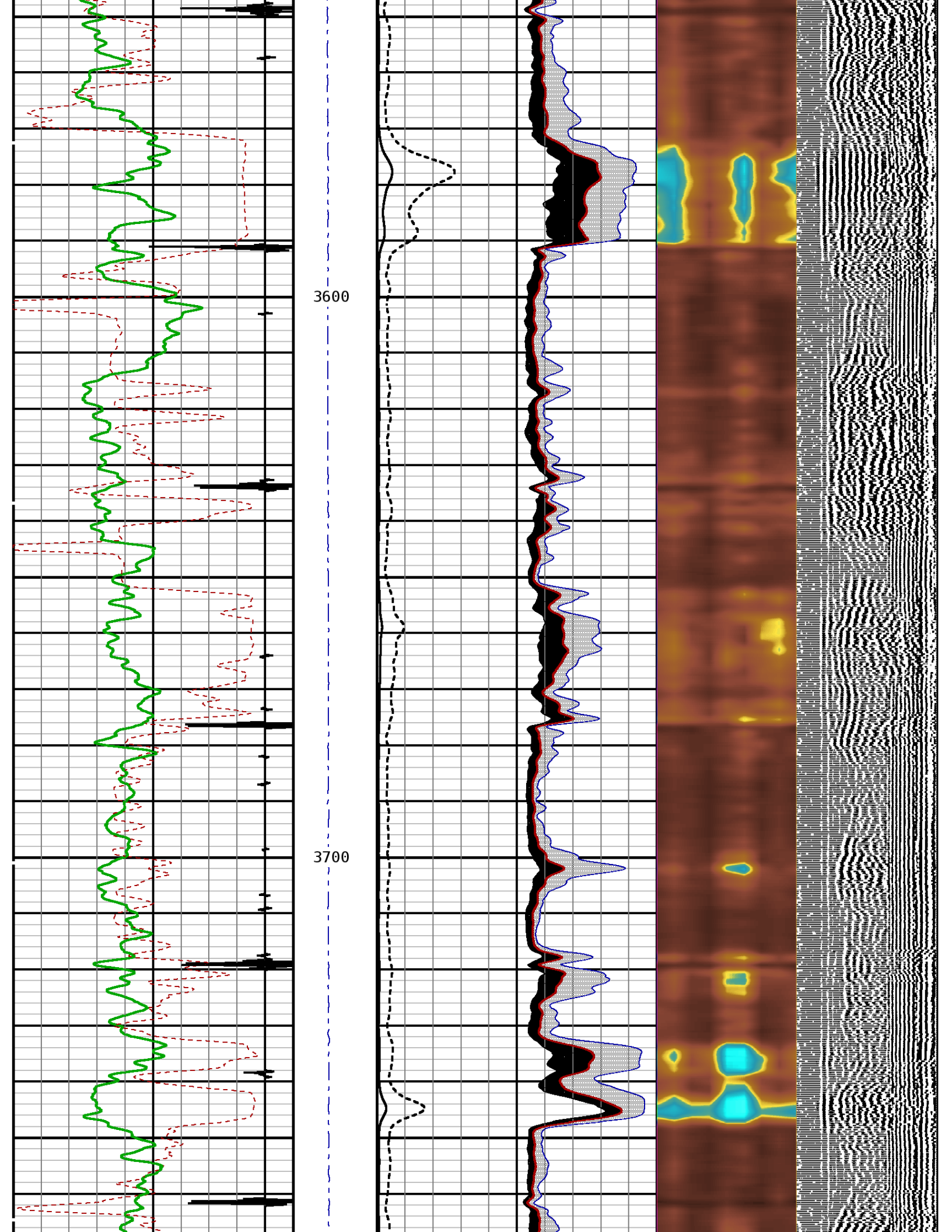




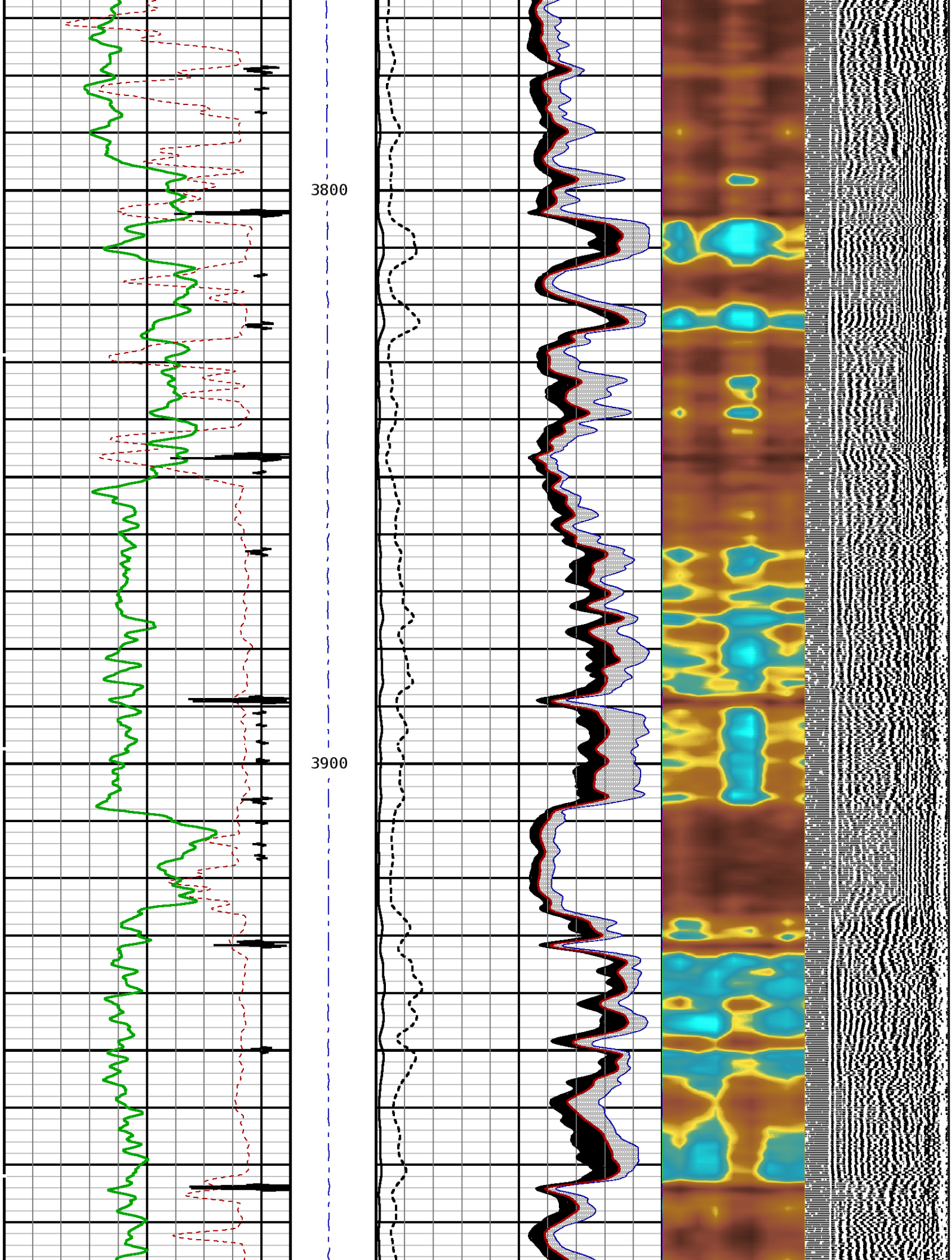


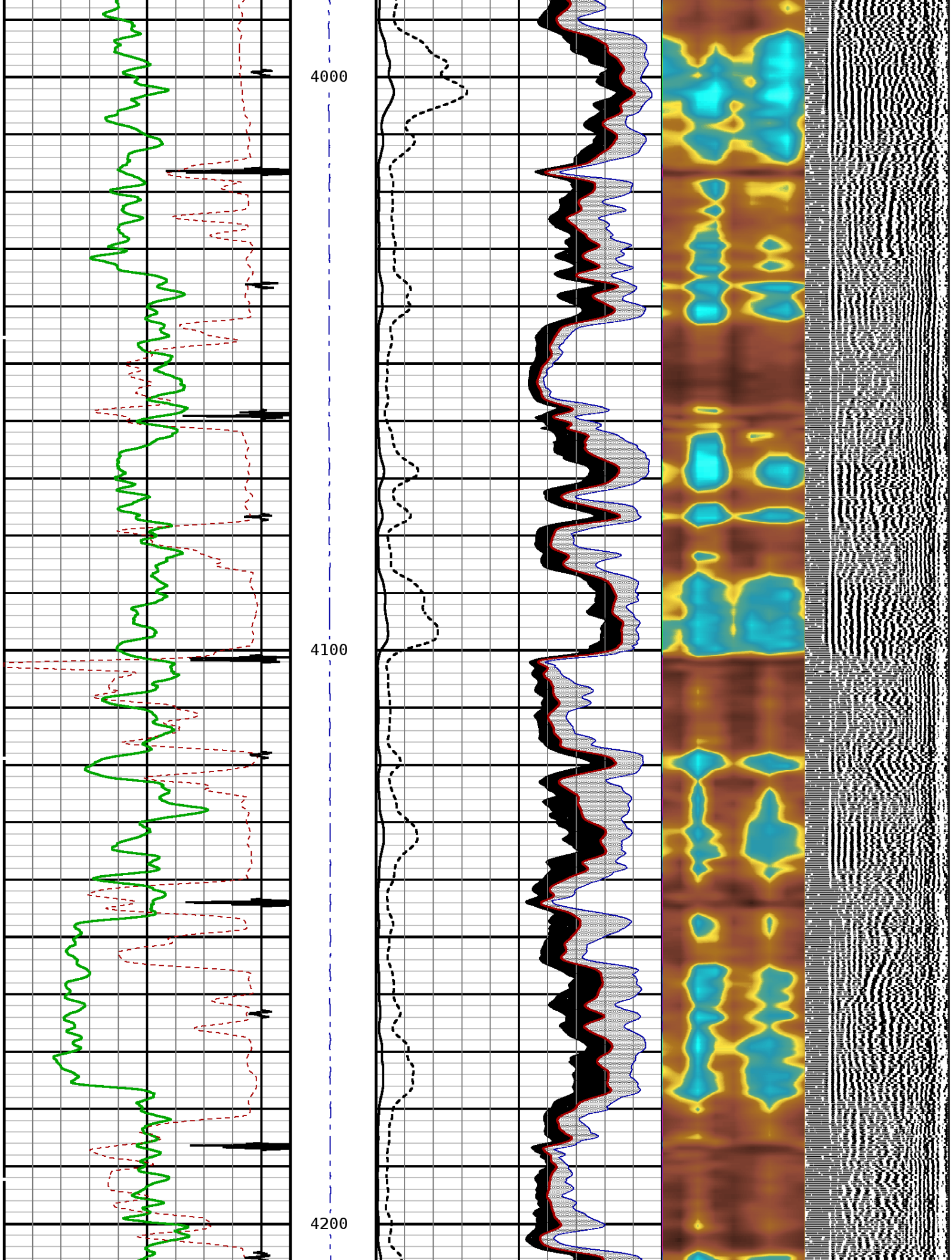




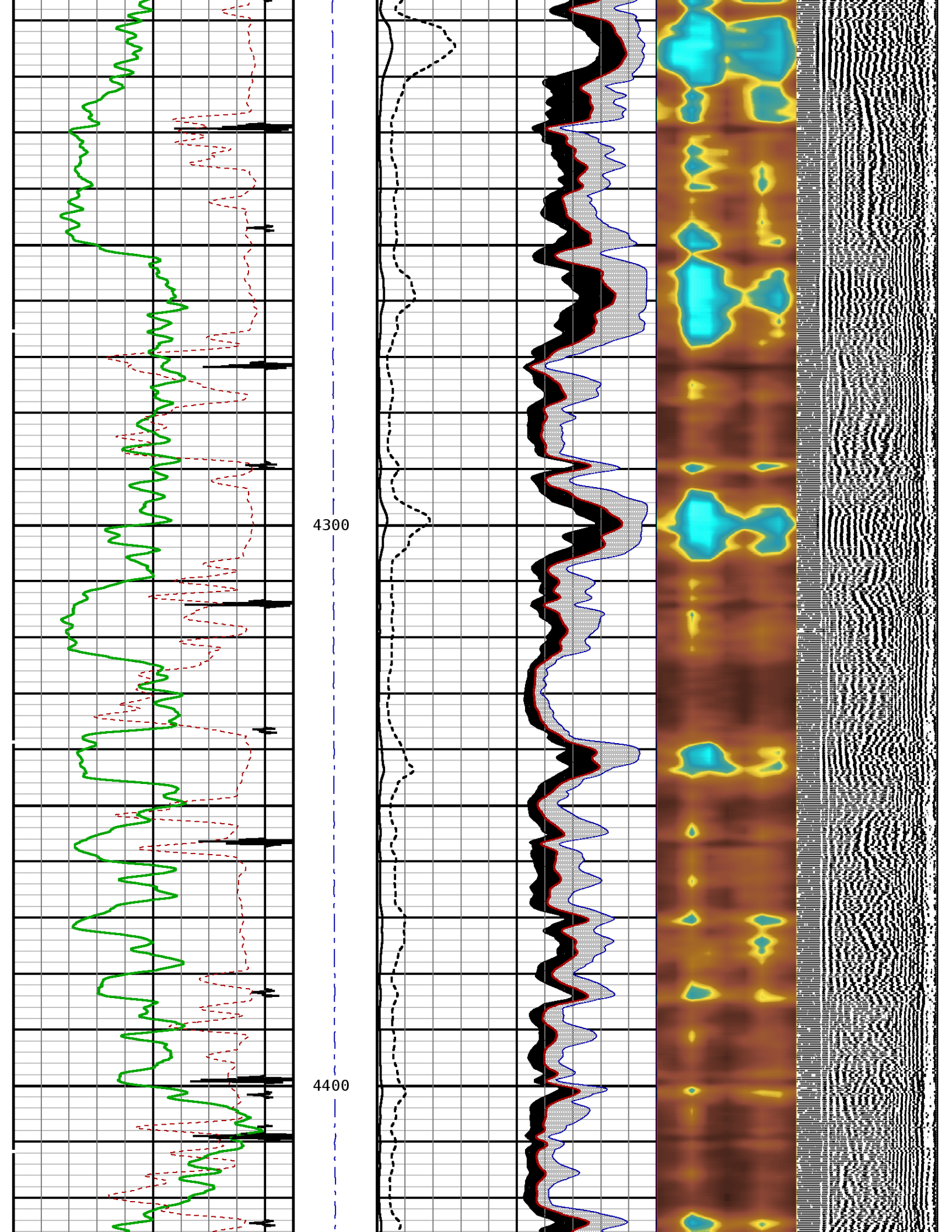


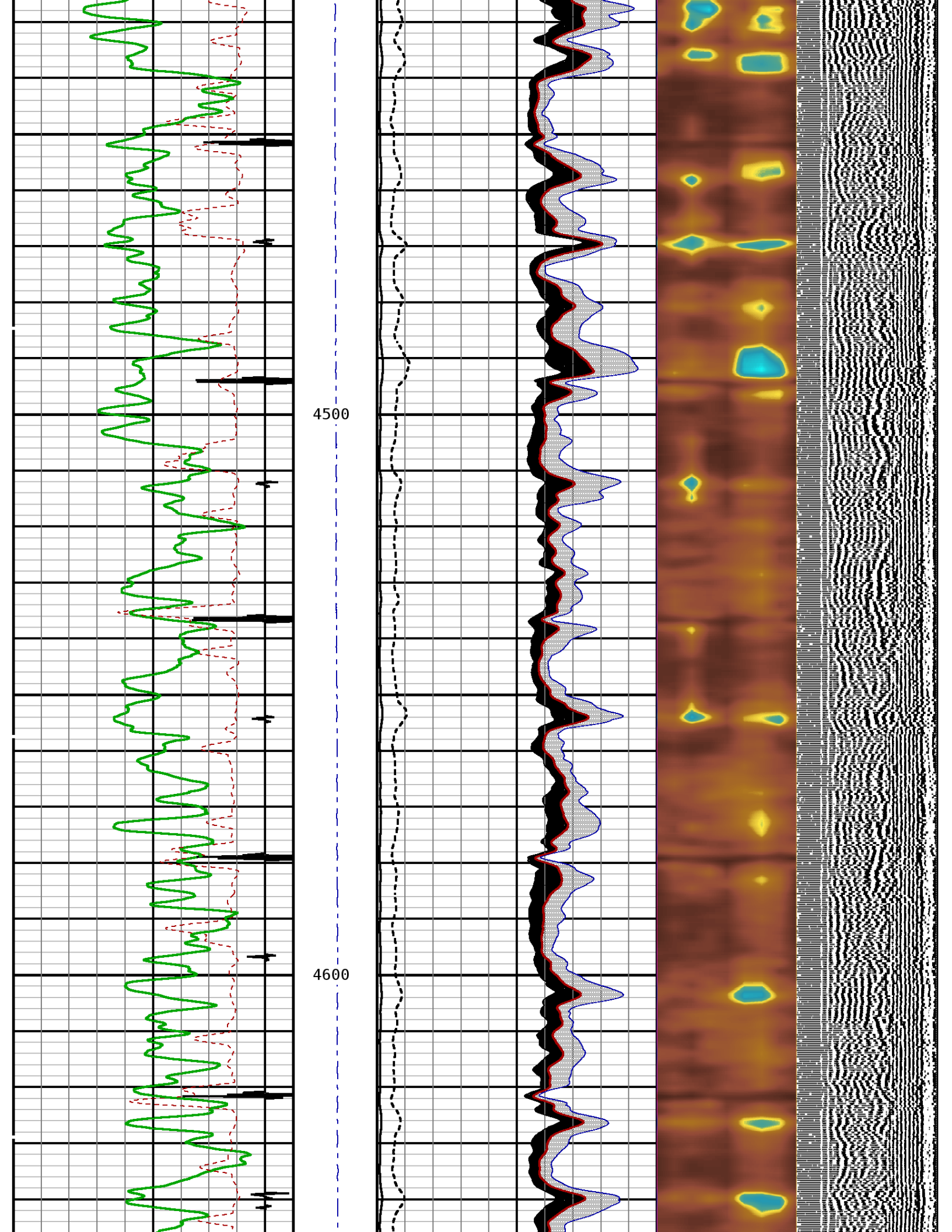




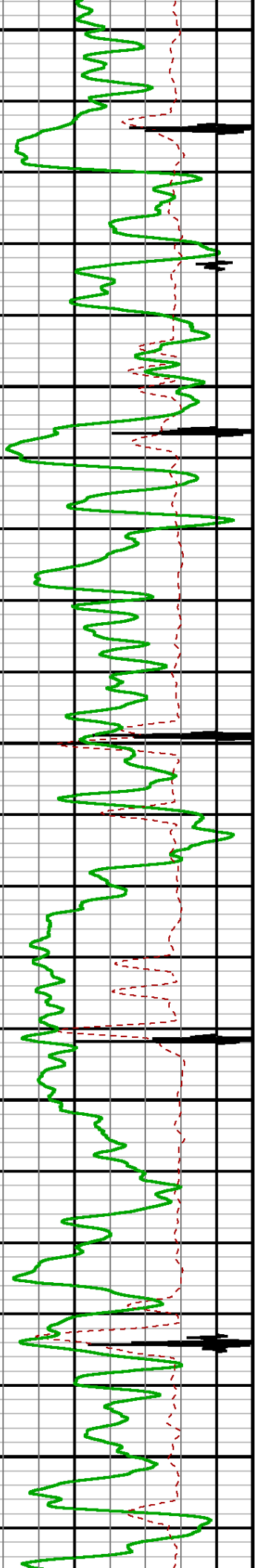






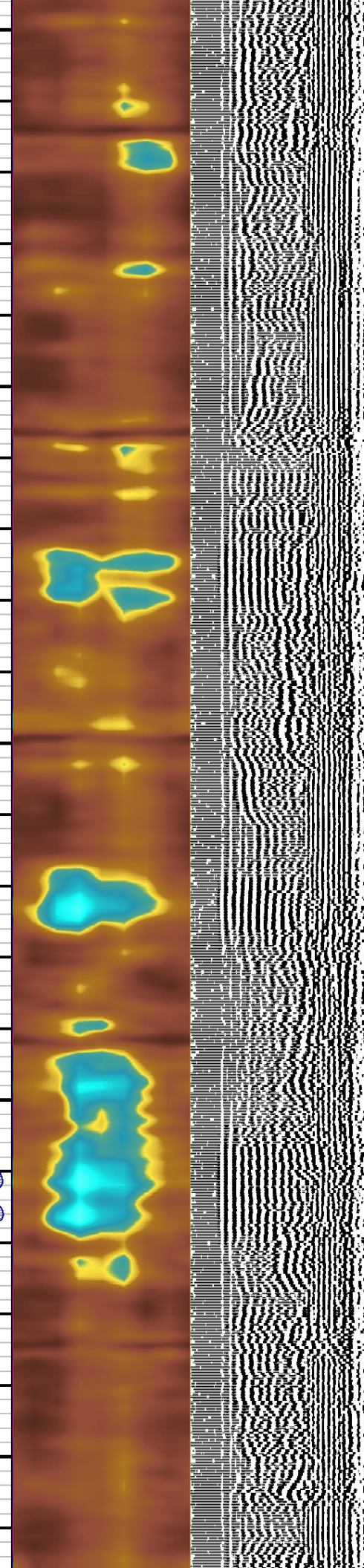
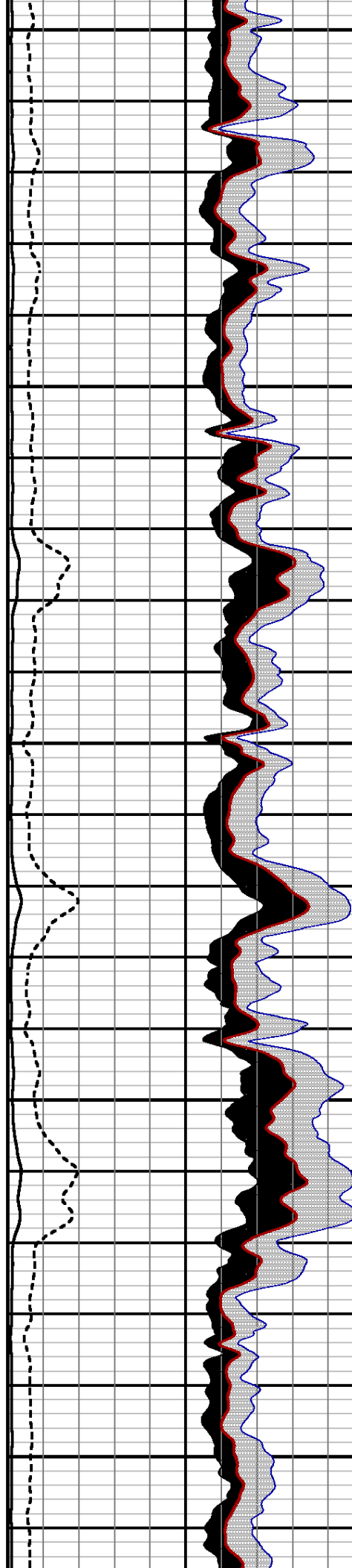


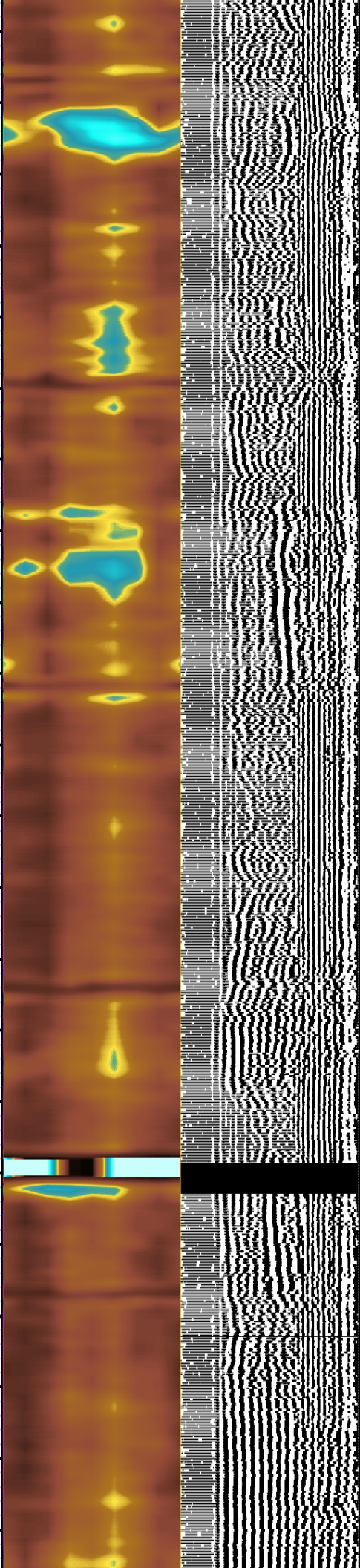
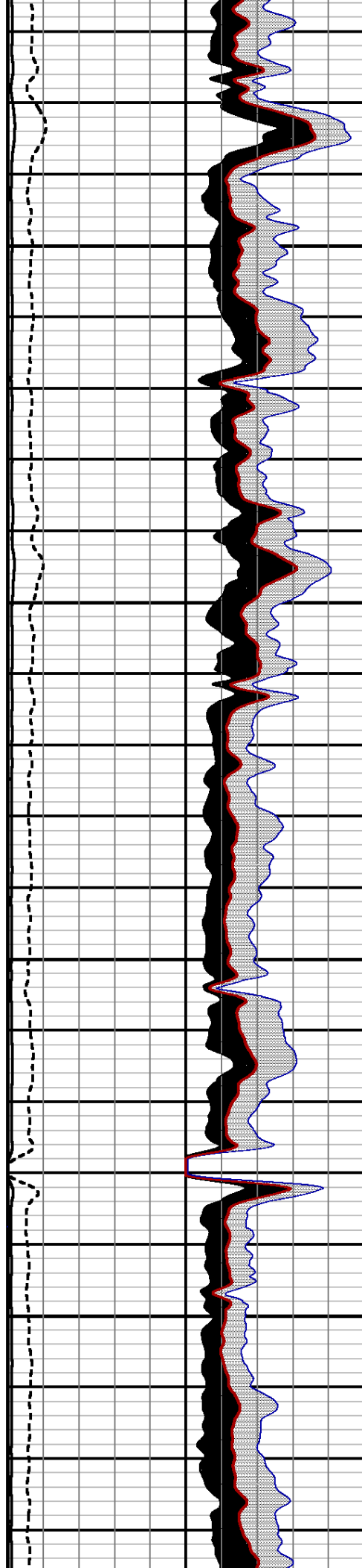
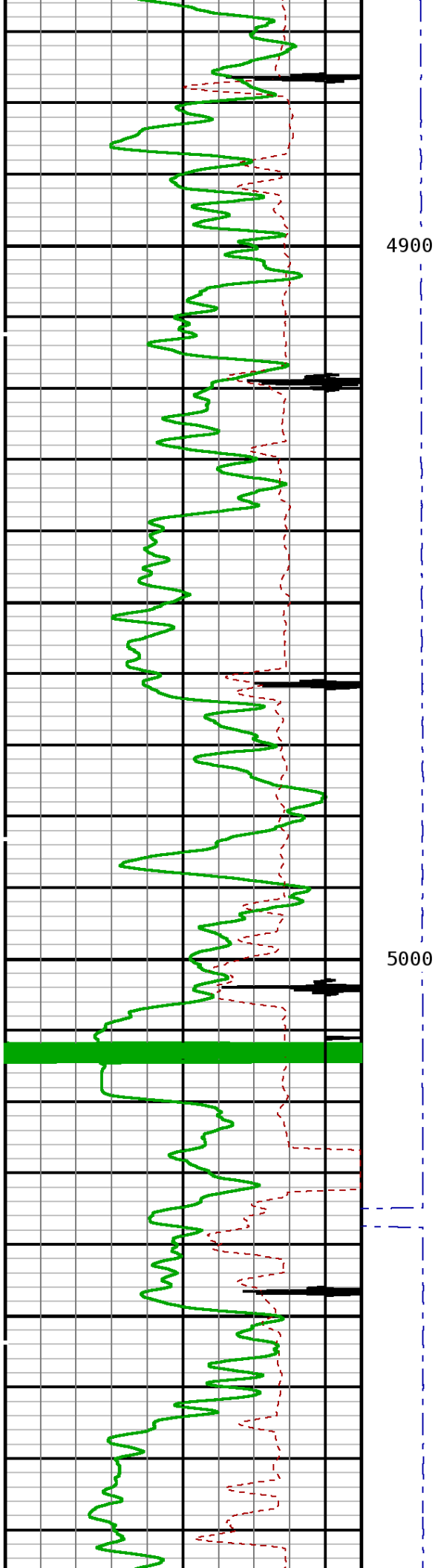




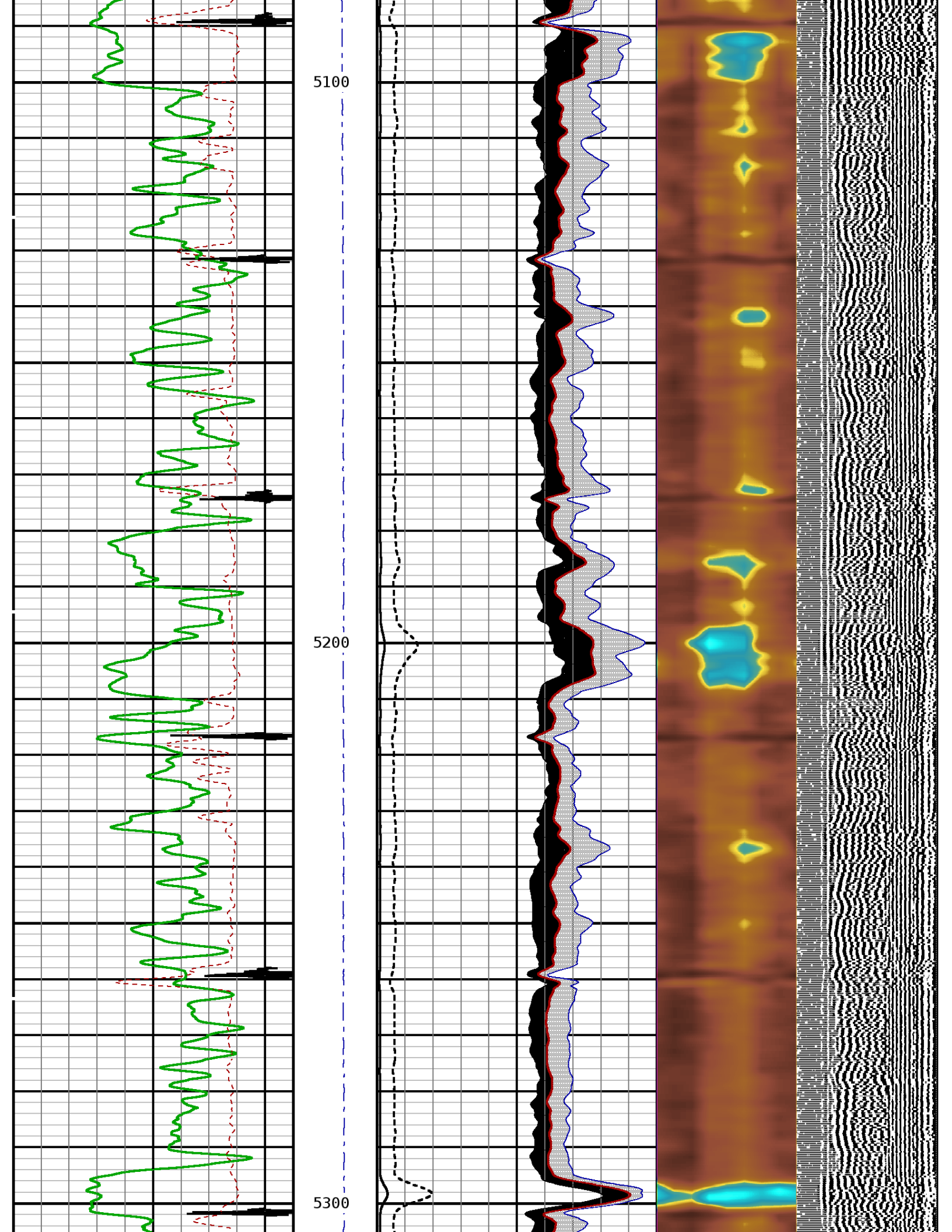
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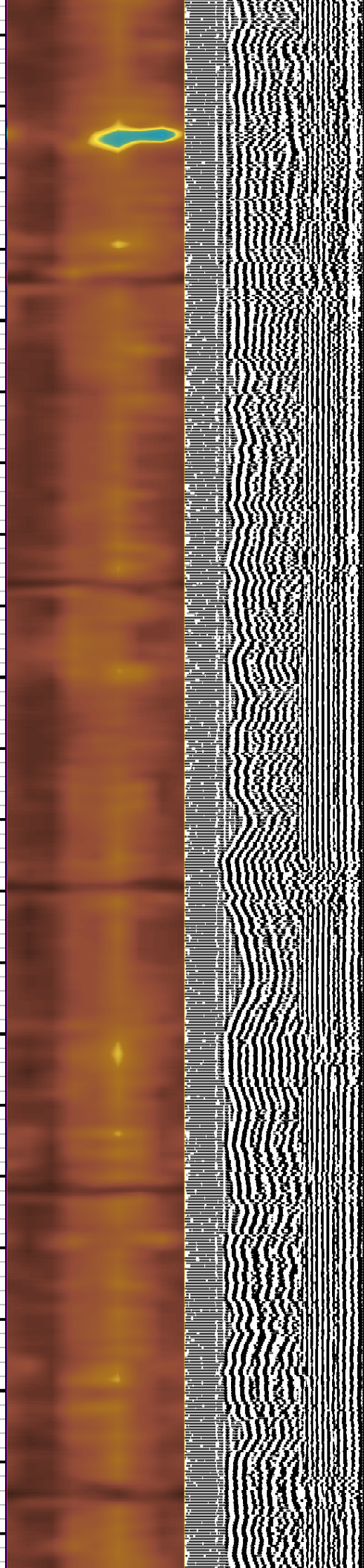
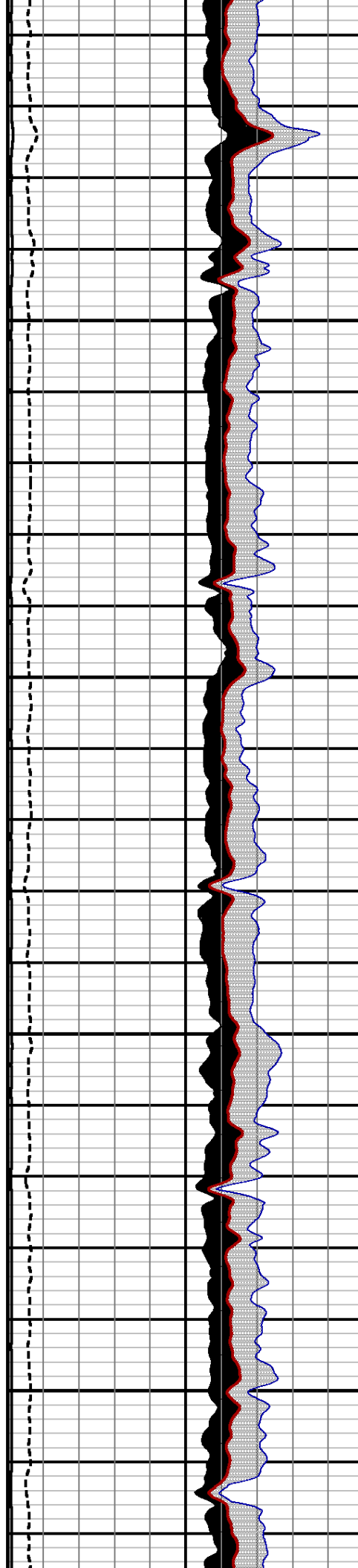
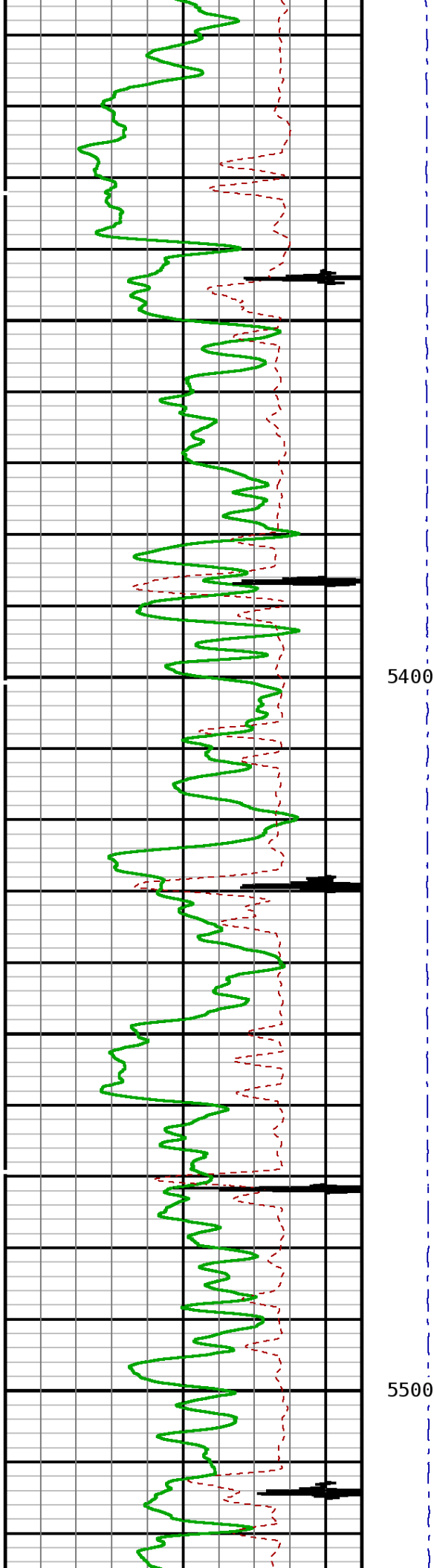
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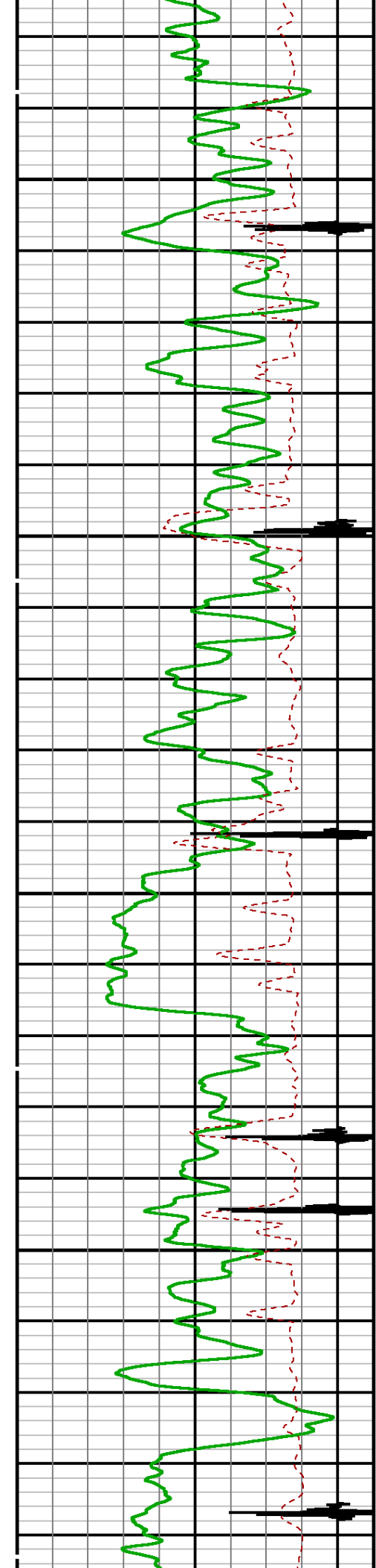






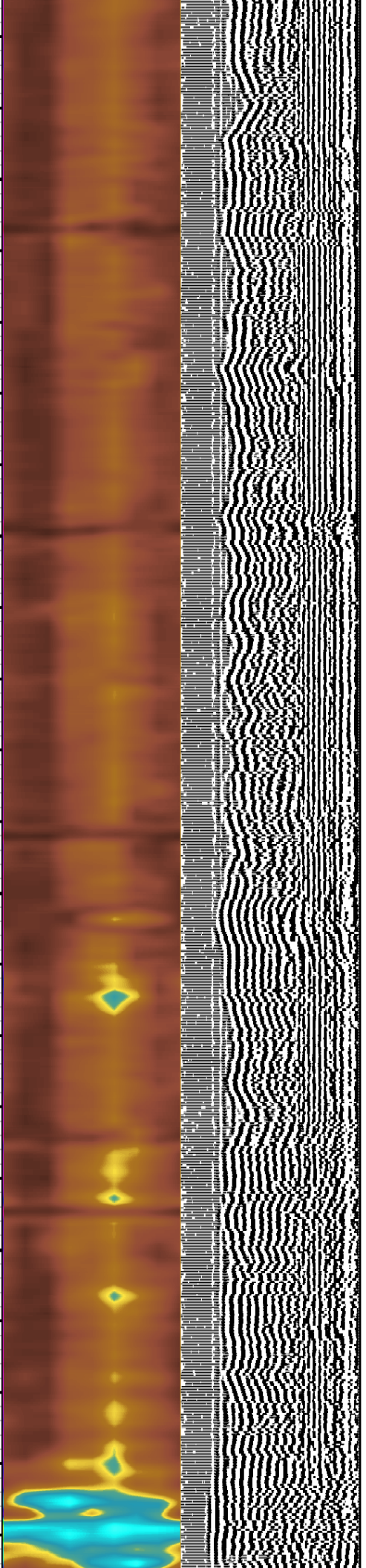
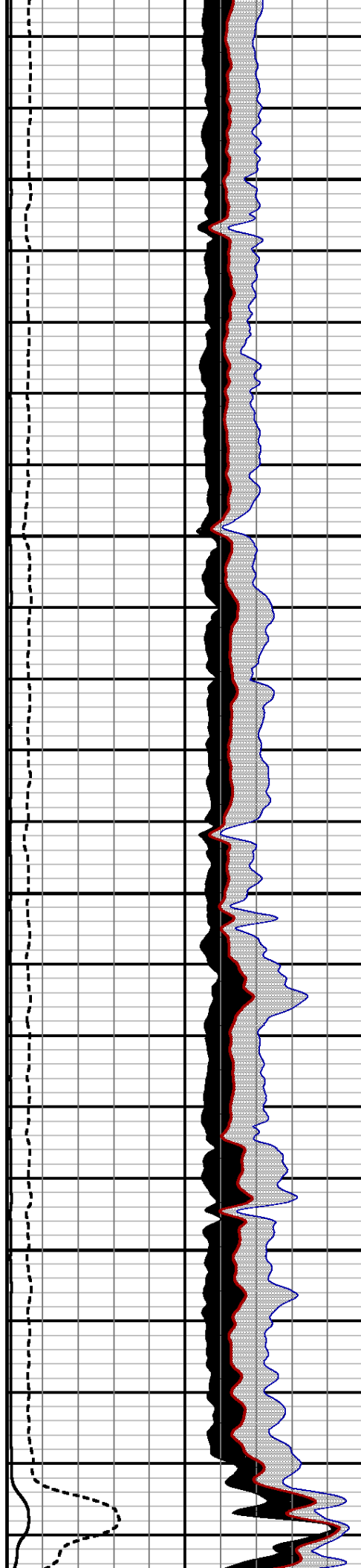


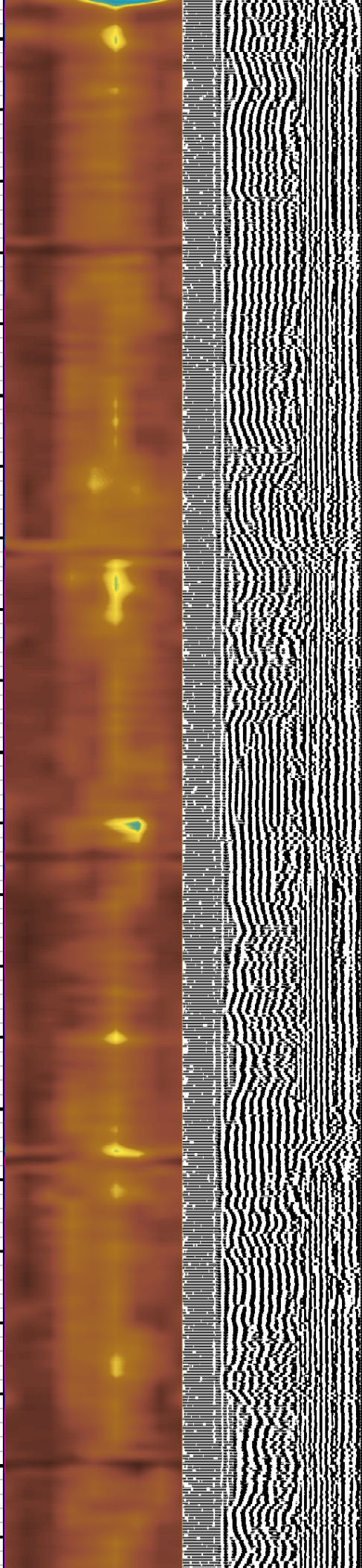
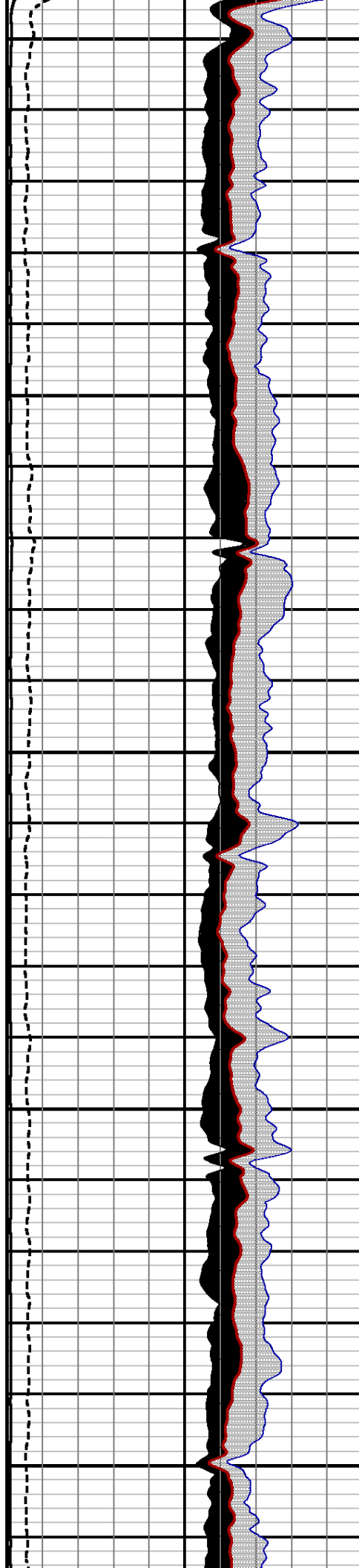
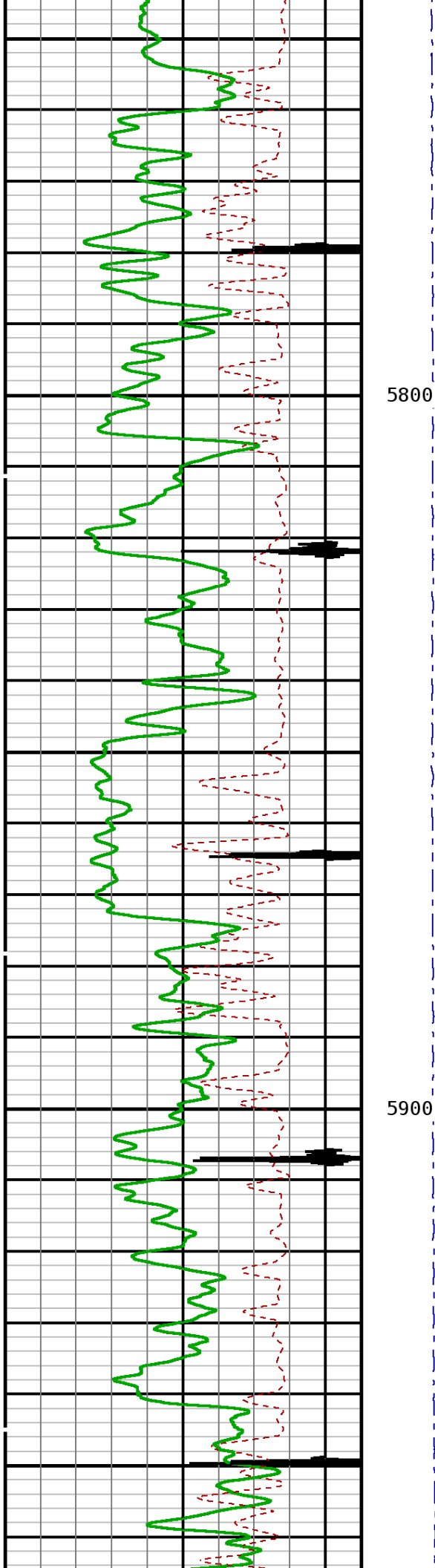


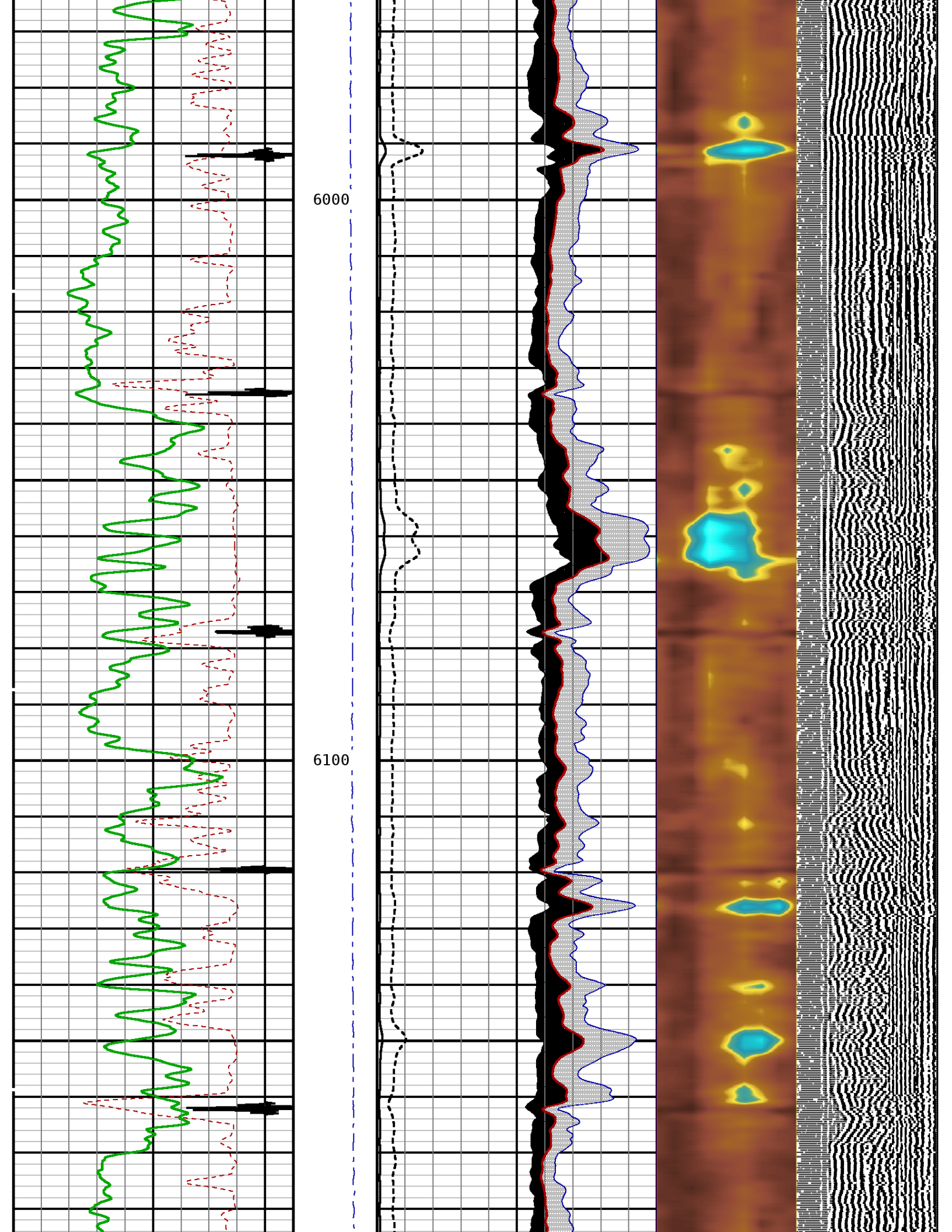


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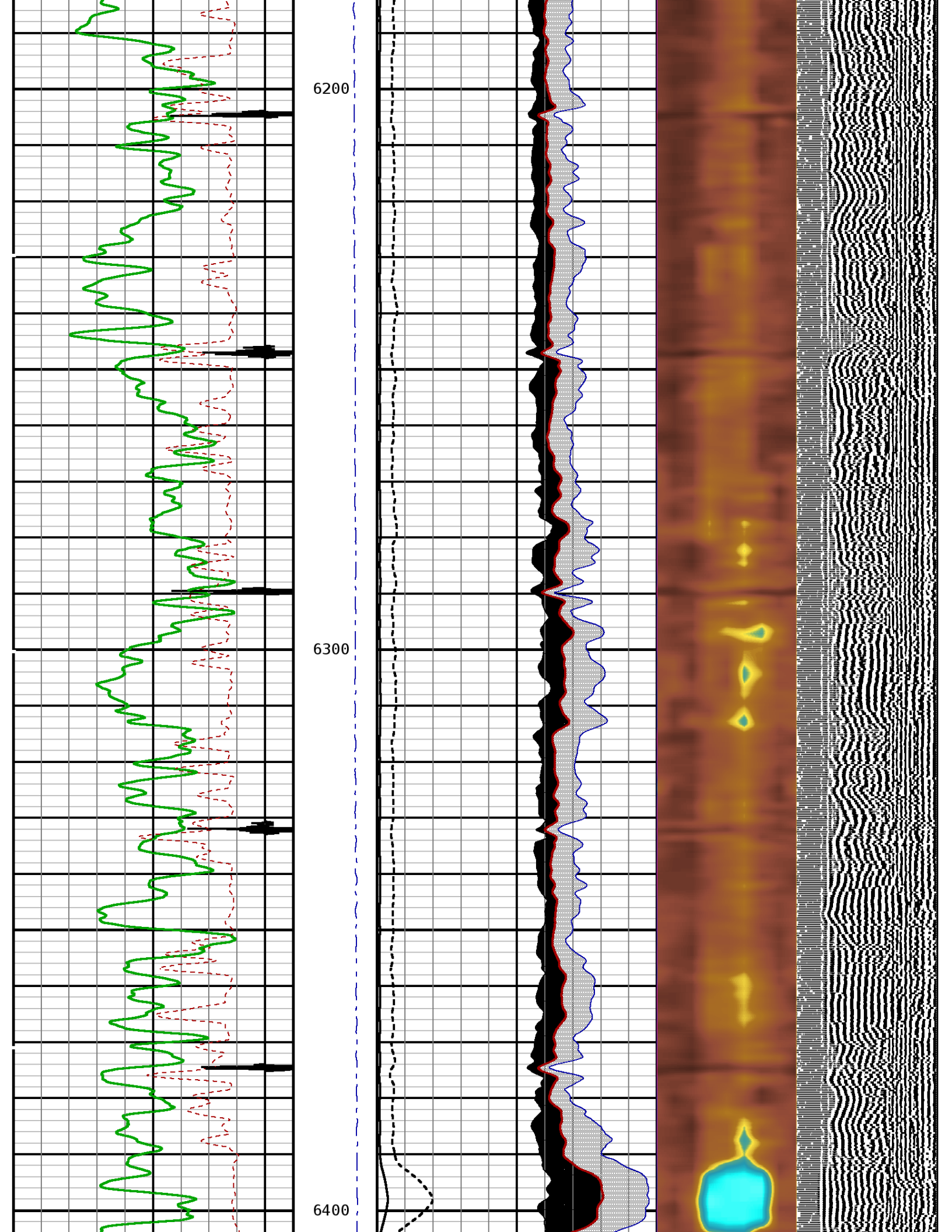
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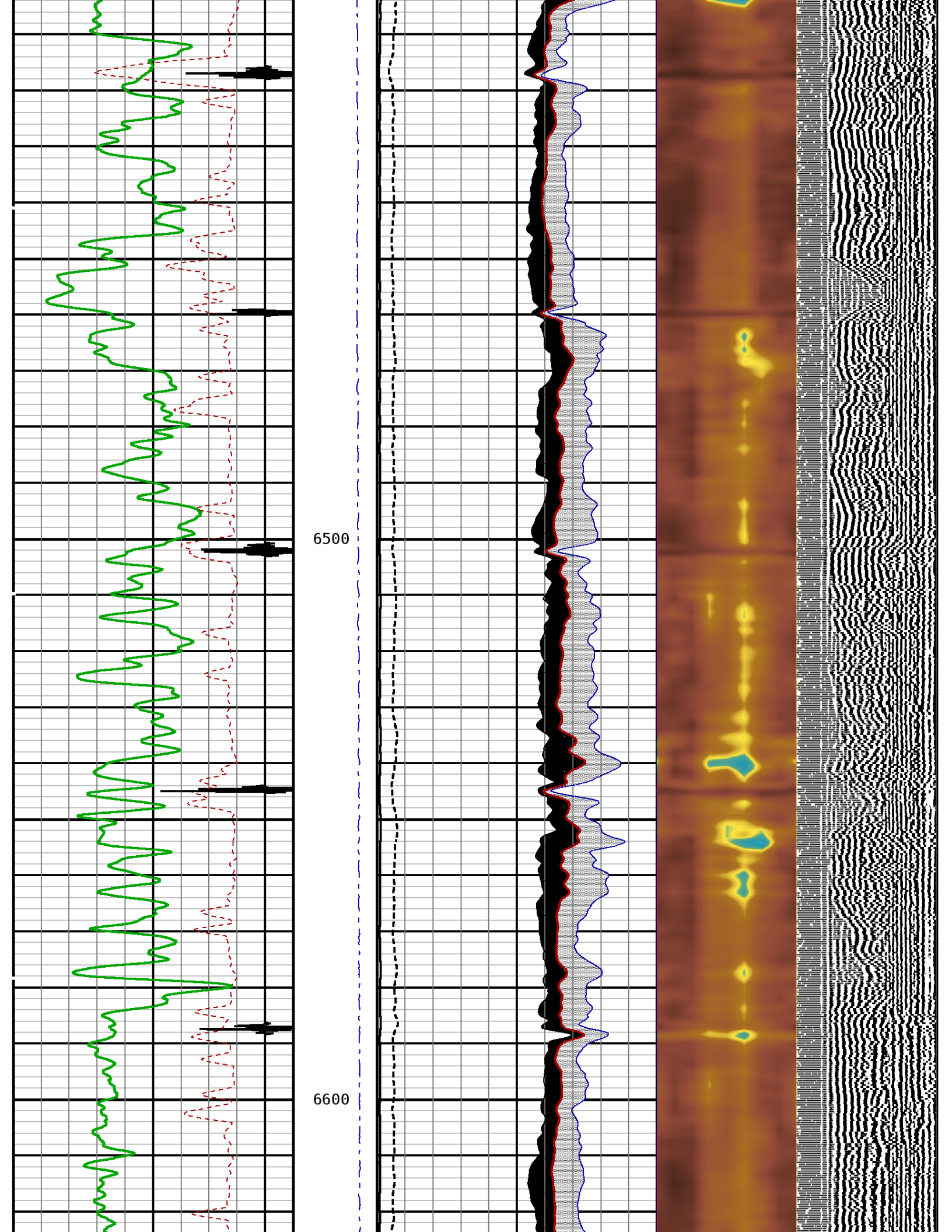


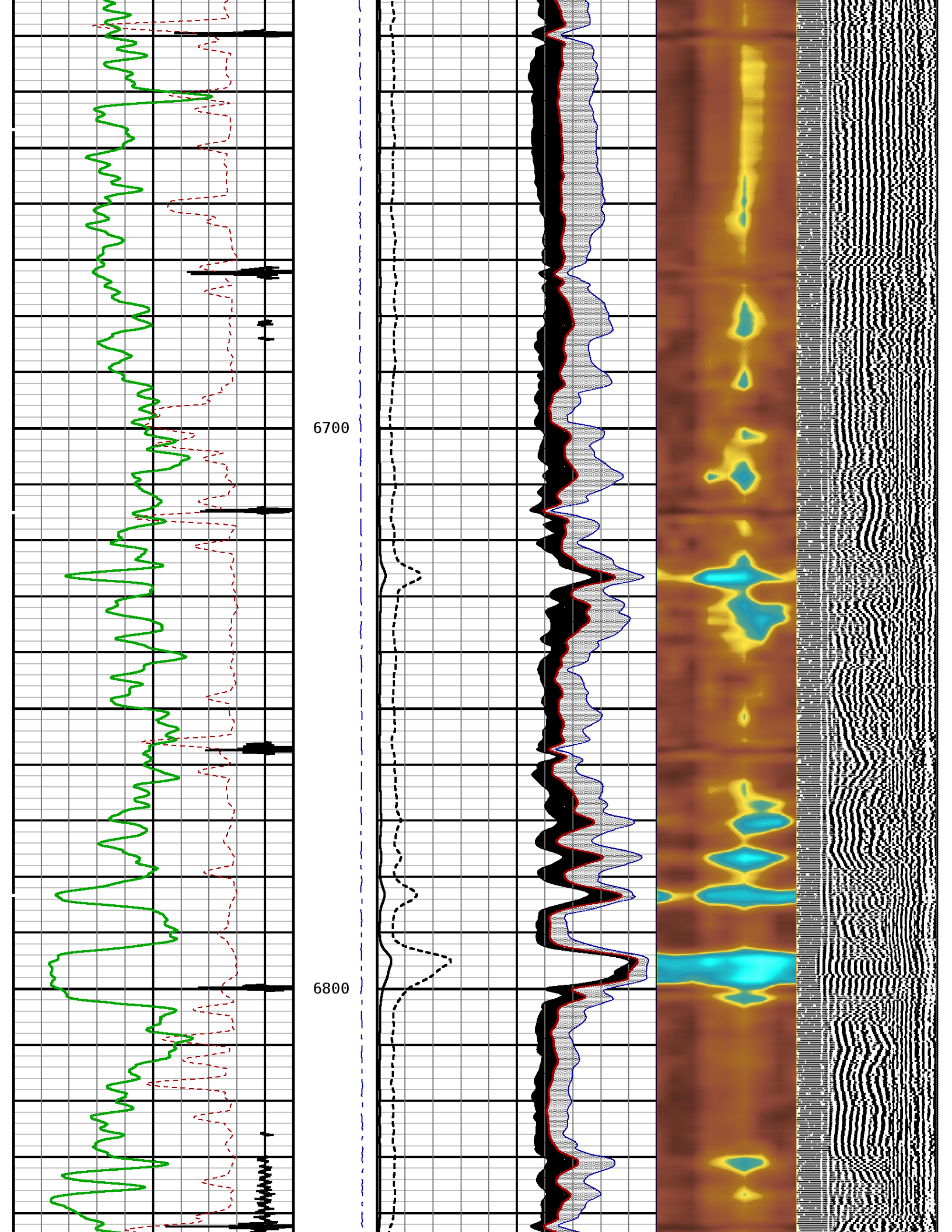




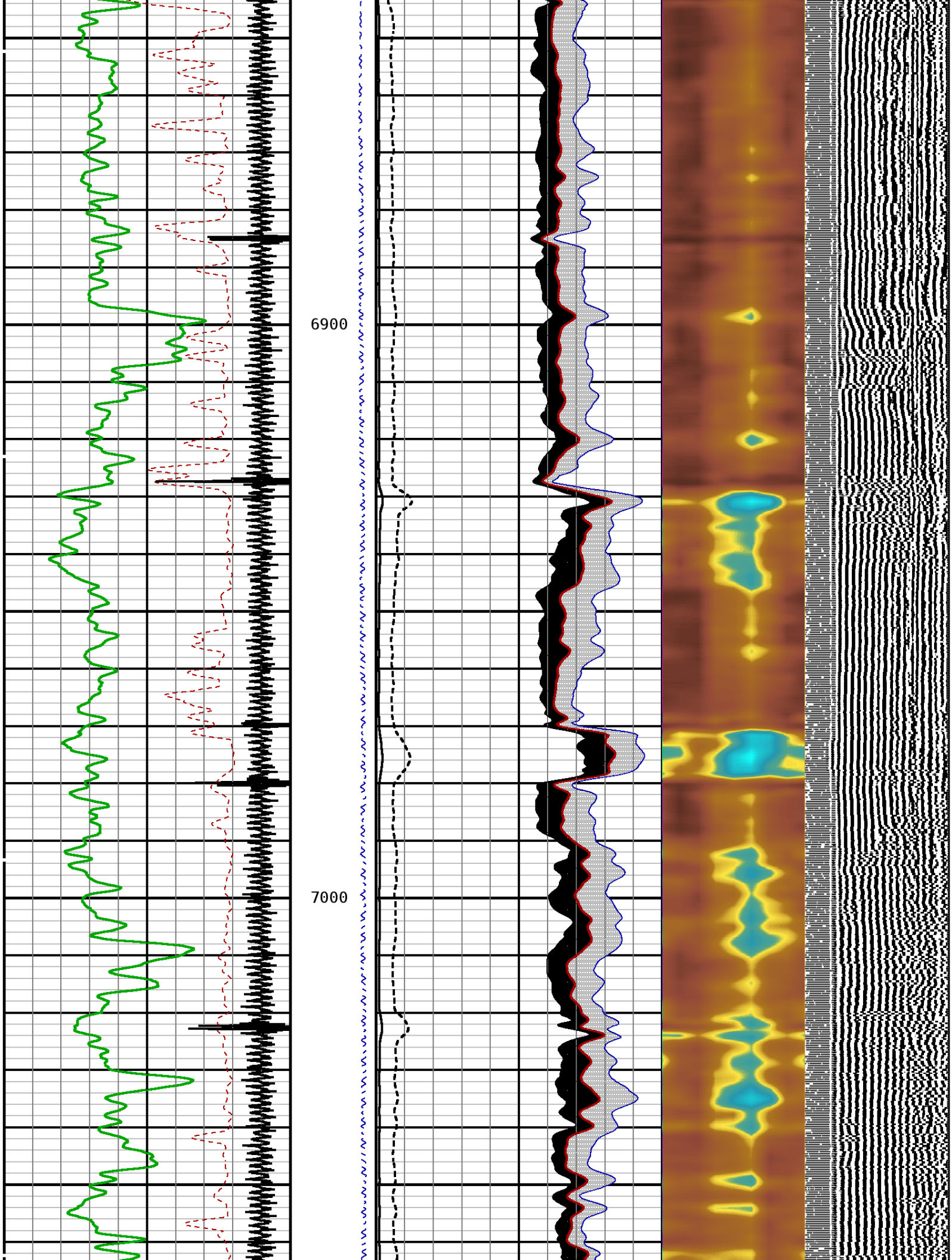


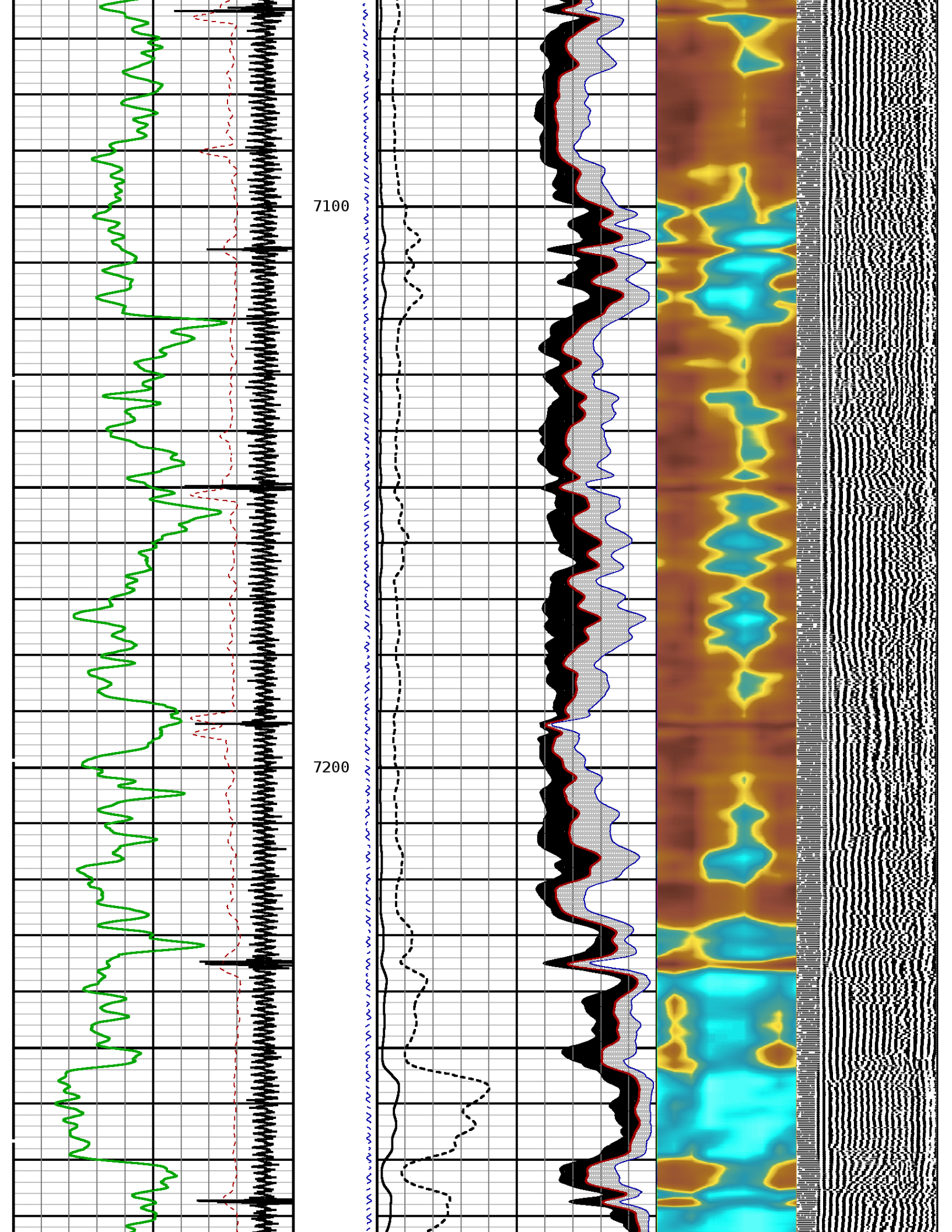


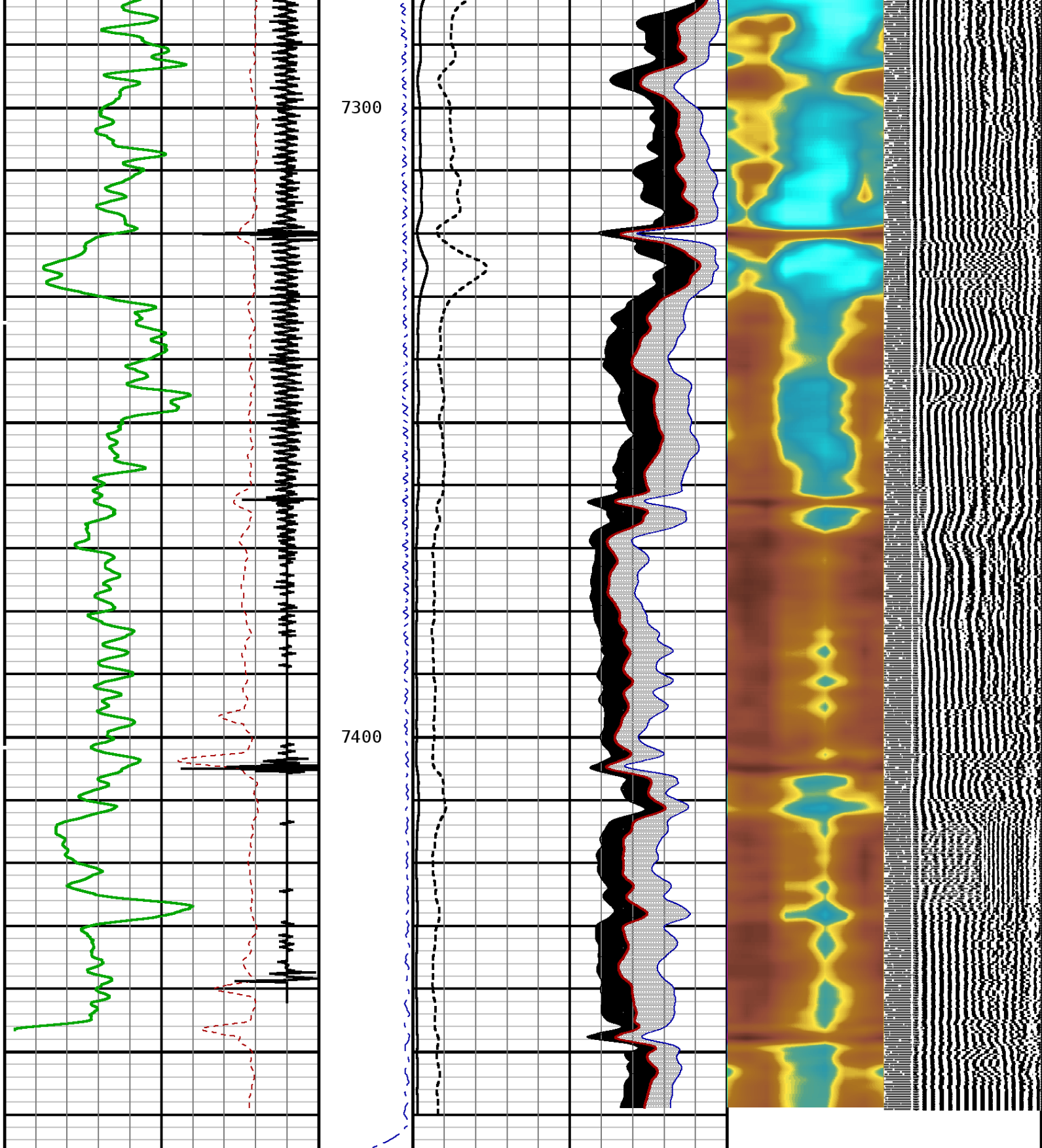













TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT		MIN ENERGY	VARIABLE ENERGY	VARIABLE DENSI
310	Microseconds	210	0 2000	0 mv 100	0 mv 100	0 mv 100	0 mv 80	200 us 1200
GAMMA RAY				3' AMP X 5		AVG ENERGY		
0	API	150		0 mv 20	0 mv 100	MAX ENERGY		
CCL								
-3600	Millivolts	400				0 mv 100		



START DEPTH: 7465.7    DIRECTION: UP    DATE: 01/20/2015    TIME: 09:39    MODE: ORIGINAL

108796022 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

108796022 SBTREPEAT

FINISH DEPTH: 7220.1 Feet    DIRECTION: UP    DATE: 01/20/2015    TIME: 09:51    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

Tension

0    2000

3' AMP X 5

0    mv    20

AMPLITUDE 3FT

0    mv    100

MIN ENERGY

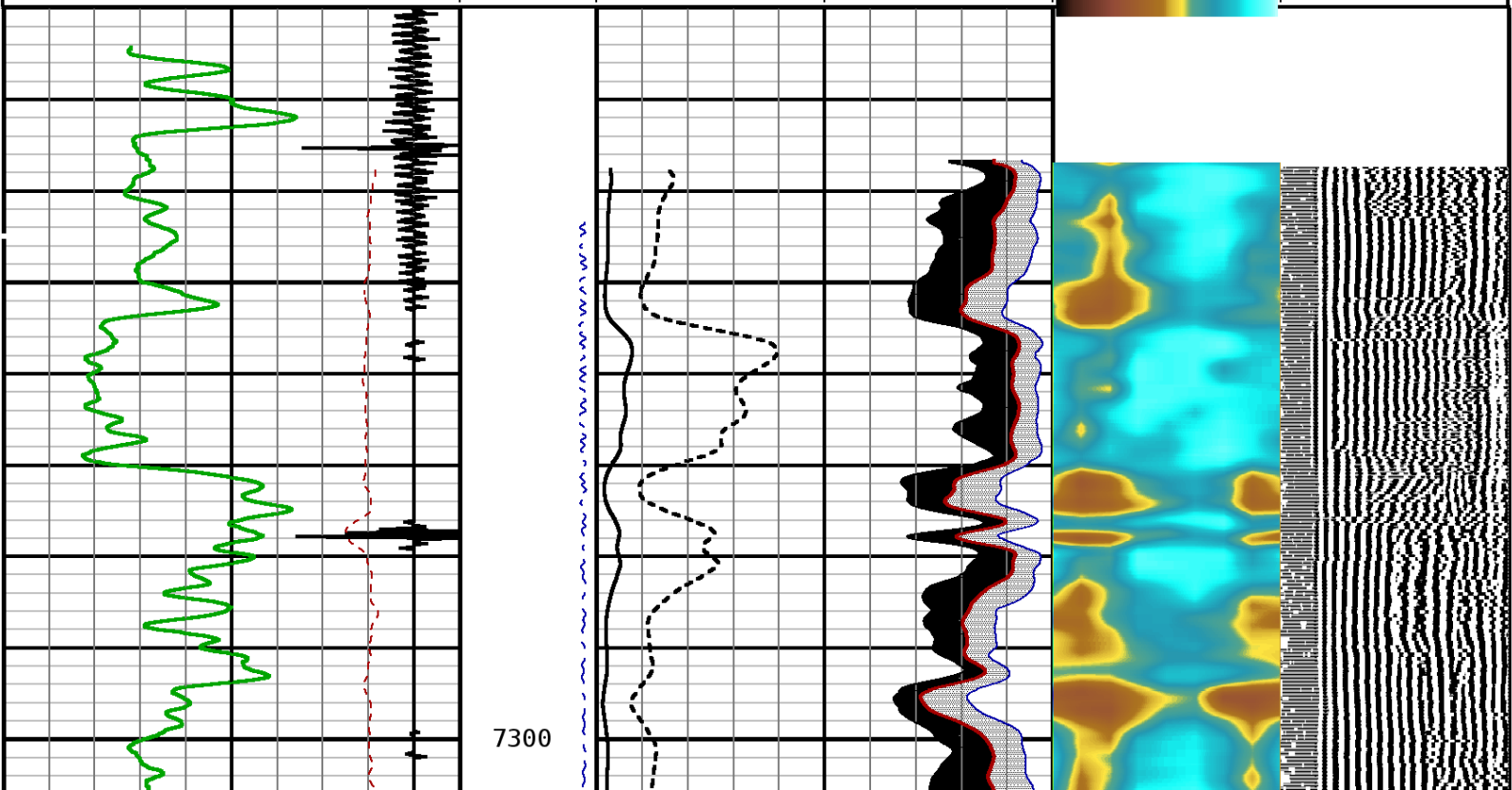
0    mv    100

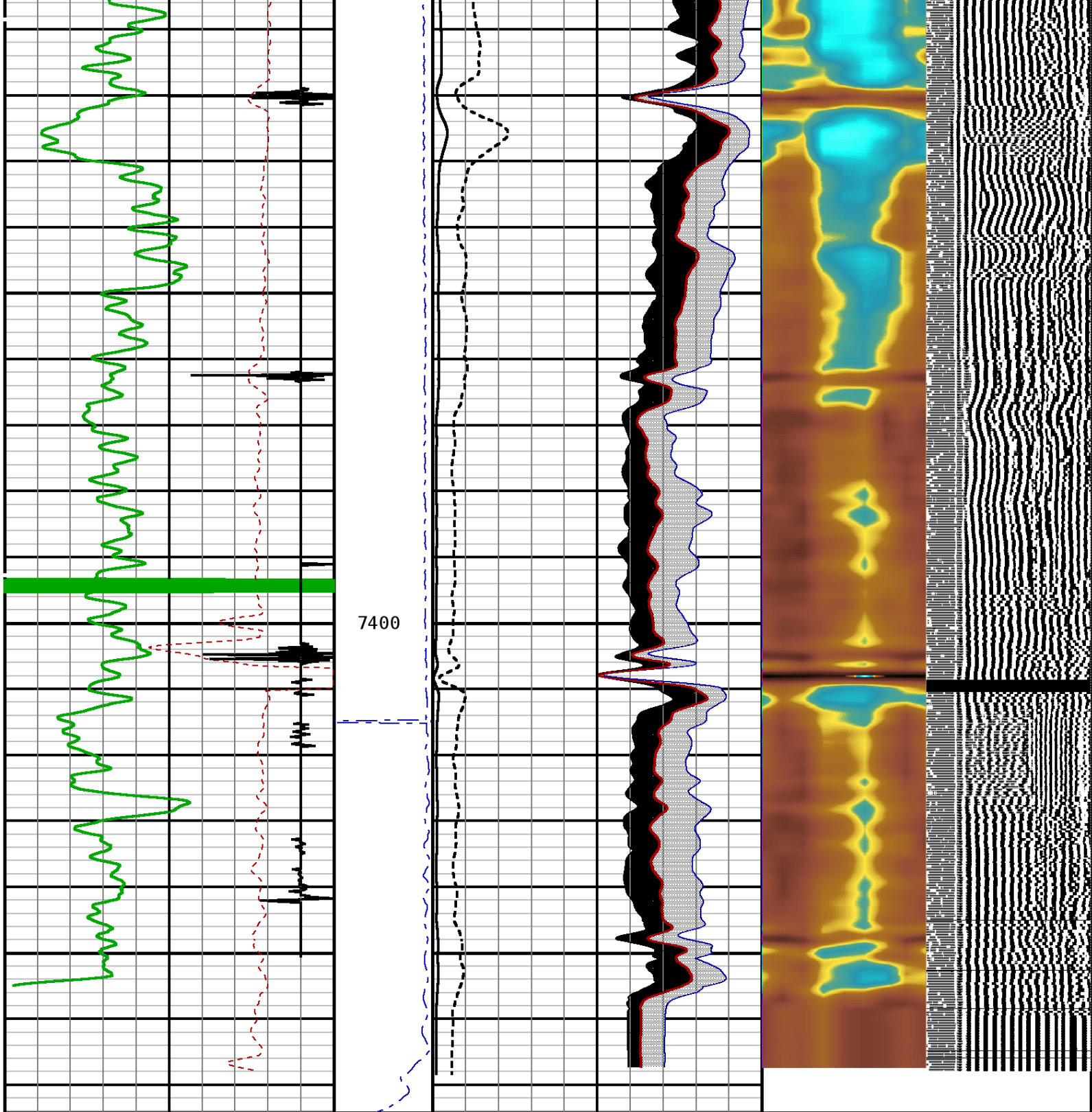
VARIABLE ENERG

0    mv    80

VARIABLE DENSI

200    us    1200





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

Total Stack Weight 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**

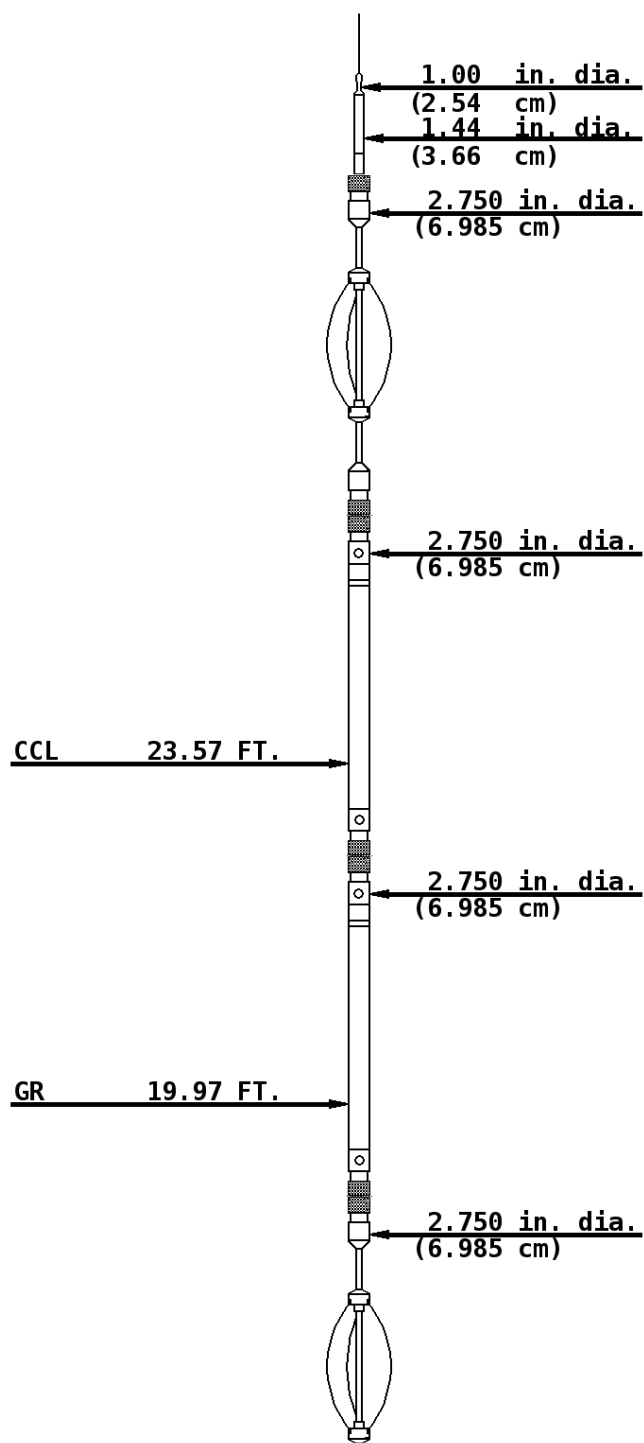
Weight 39.8 LBS.  
Length 3.40 FT.  
Max. Diameter 2.75 IN.

**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.

SBT/CBL Tx 8.75 FT.

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.

2.750 in. dia.  
(6.985 cm)

Tool Zero

COMPANY URSA OPERATING COMPANY  
WELL VALLEY FARMS 41A-14-06-92  
FIELD GRAVEL TREAD  
COUNTY GARFIELD STATE COLORADO



**Weatherford®**