



**SECTOR BOND
GAMMA RAY/CCL
LOG**

APACHE CORPORATION FEDERAL SWD #1 ARTESIA STATE NM						COMPANY APACHE CORPORATION WELL AAO FEDERAL SWD #1 FIELD ARTESIA COUNTY EDDY STATE NM					
PERM. DATUM KELLY BUSHING ELEV. 3629' LOG MEASURED FROM KB 13 FT. ABOVE PERMANENT DATUM DRILLING MEASURED FROM GROUND LEVEL						OTHER SERVICES: JB/GR, & CNL API: ELEV.: K.B. 3642' D.F. 3641' G.L. 3629'					
DATE		23-MAR-2015									
RUN NO.		ONE									
DEPTH DRILLER		8400'									
DEPTH LOGGER		6248'									
BTM. LOG INTERVAL		6248'									
TOP LOG INTERVAL		SURF.									
OPEN HOLE SIZE		N/A									
TYPE FLUID		WATER									
DENS.		N/A		N/A							
MAX. REC. TEMP. ° F		N/A									
EST. CEMENT TOP		N/A									
TIME WELL READY		ON ARRIVAL									
TIME LOGGER ON BTM.		SEE LOG									
EQUIP. NO.		14075									
LOCATION		HOBBS, NM									
RECORDED BY		M.MCGAHA									
WITNESSED BY		D.PEDROZA									
BOREHOLE RECORD						TUBING RECORD					
RUN NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO				
CASING RECORD	SIZE	WT./FT	GRADE	TYPE JOINT	TOP	BOTTOM					
SURFACE STRING					SURF.						
PROD. STRING	7	26			SURF.	T.D.					
LINER											

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.

[illegible]

REMARKS

LOGGED WITH 1000# PSI

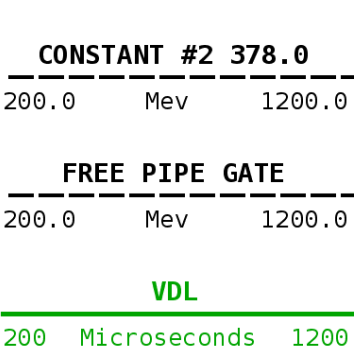
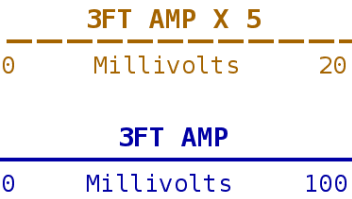
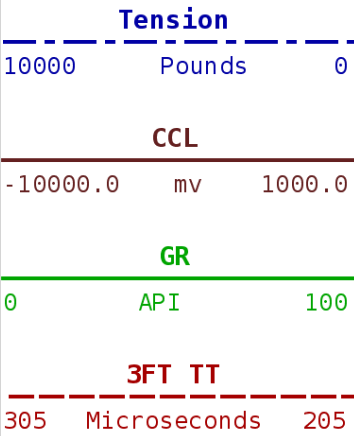
DEPTH SCALE: 5":100'

PROCESSED VERSION: 2012.07.18.162"

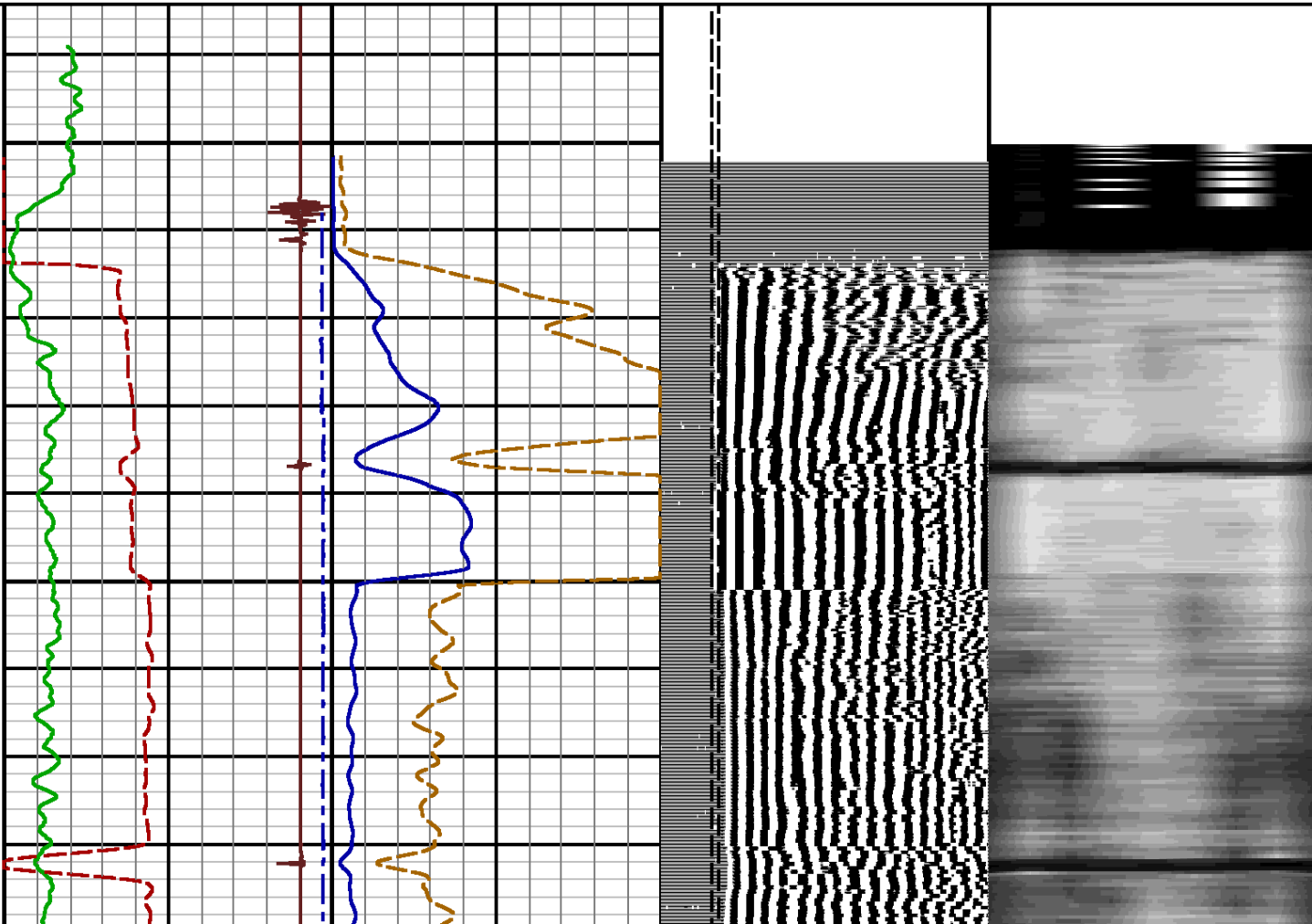
MAIN PASS

114331751 sbt3

FINISH DEPTH: 8.0 Feet DIRECTION: UP DATE: 03/24/2015 TIME: 09:18 MODE: RECOMPUTE
RECOMPUTED DATE: 03/24/2015 TIME: 09:18



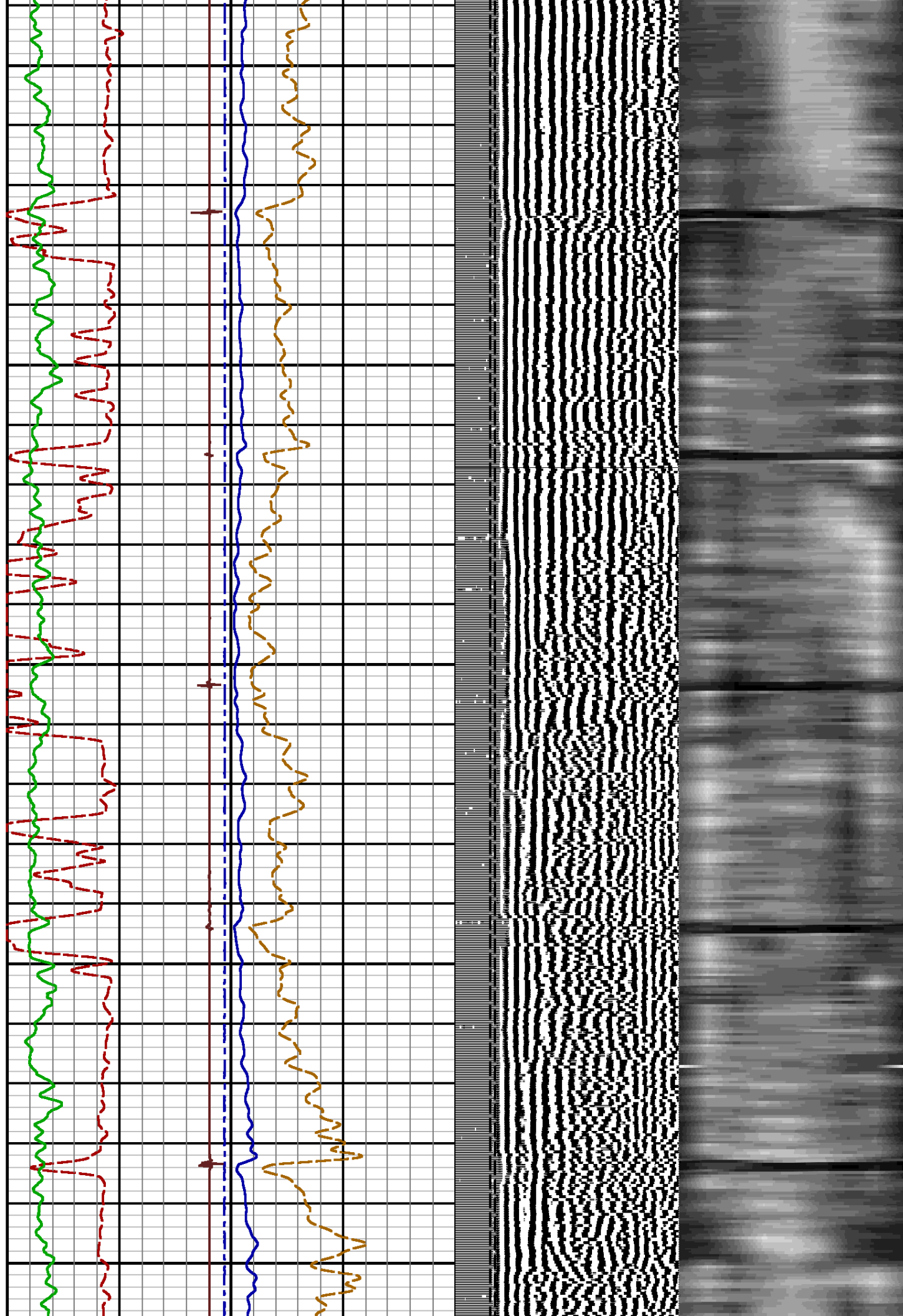
0



100

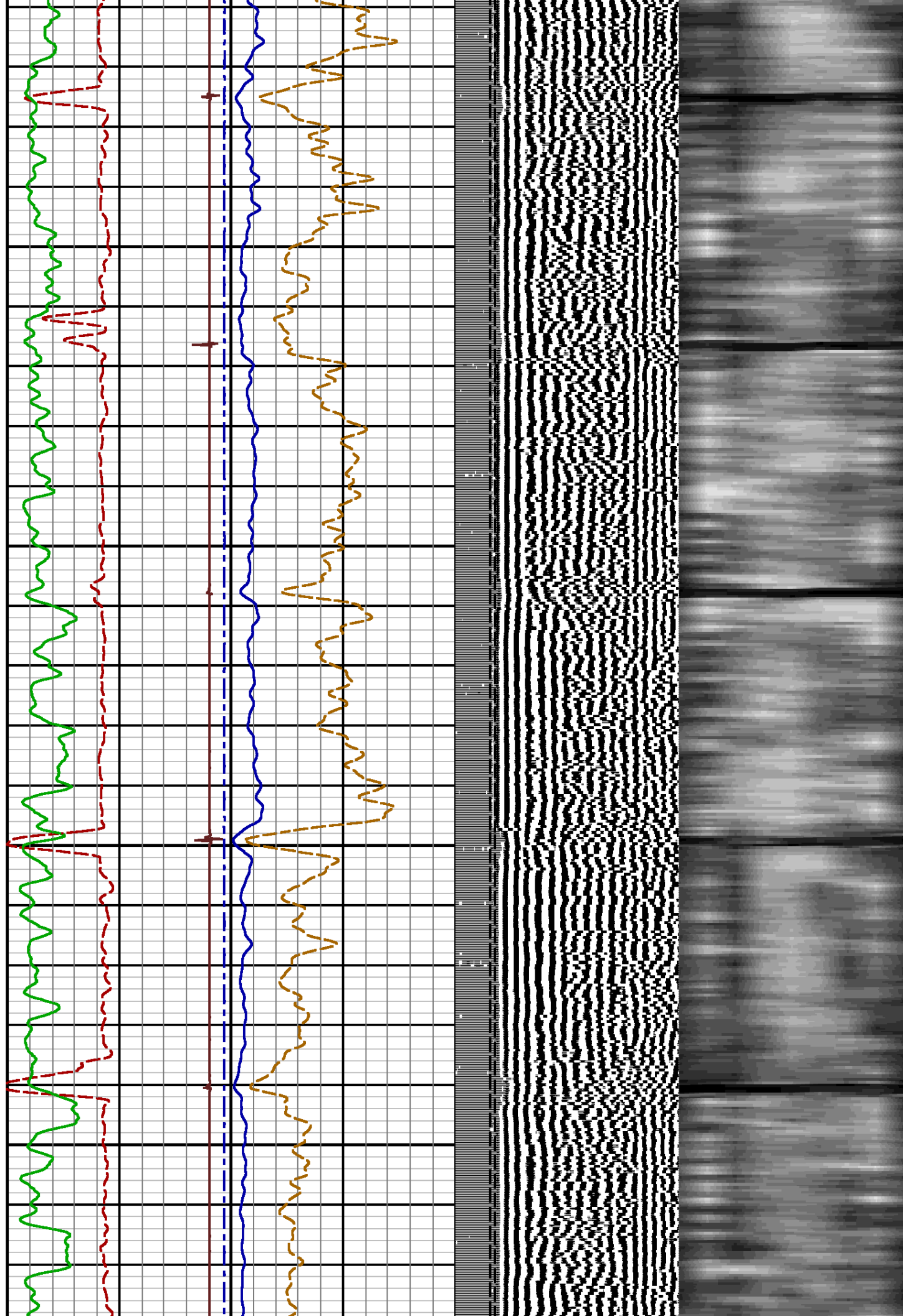
200

300



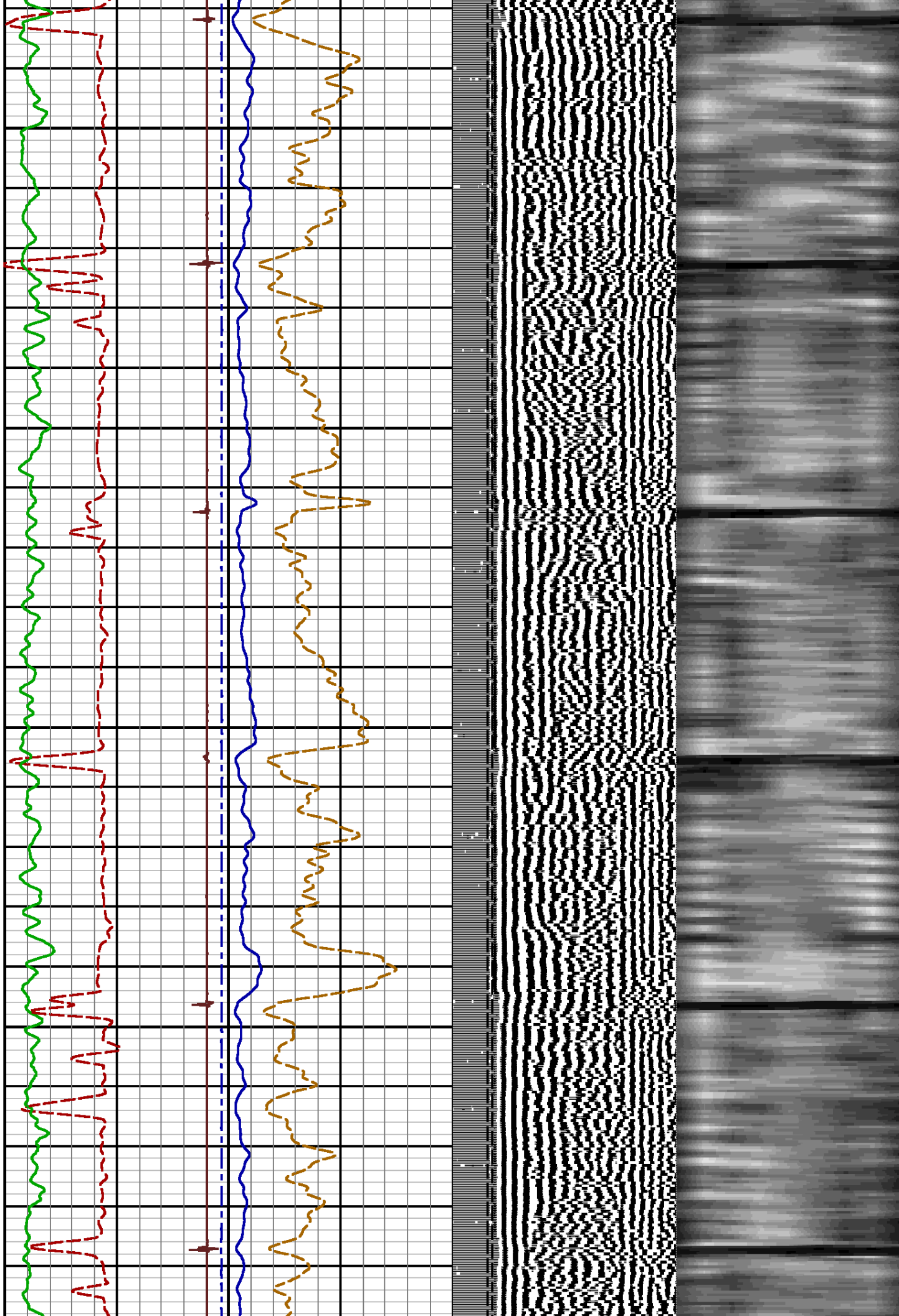
400

500



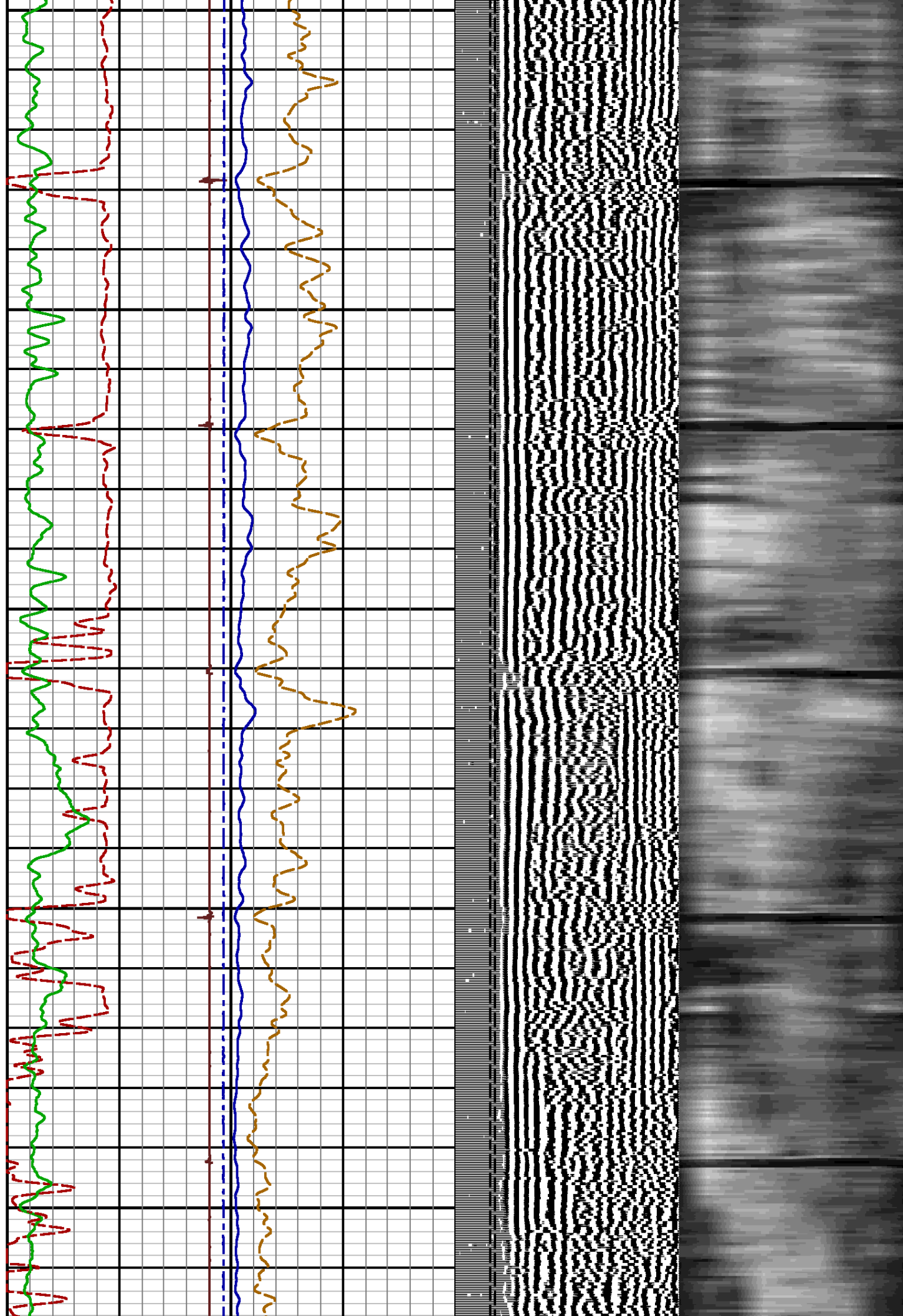
600

700



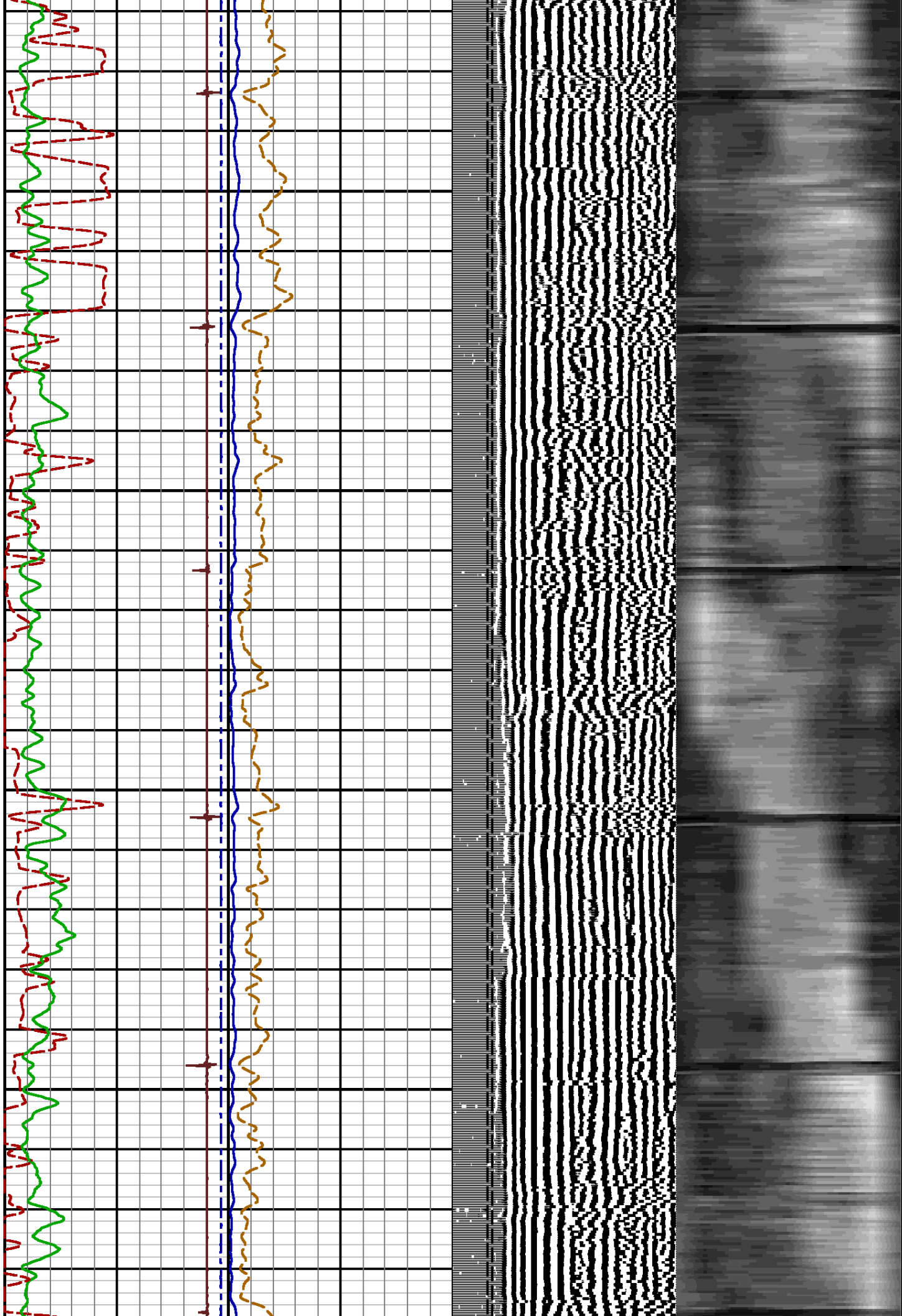
800

900



1000

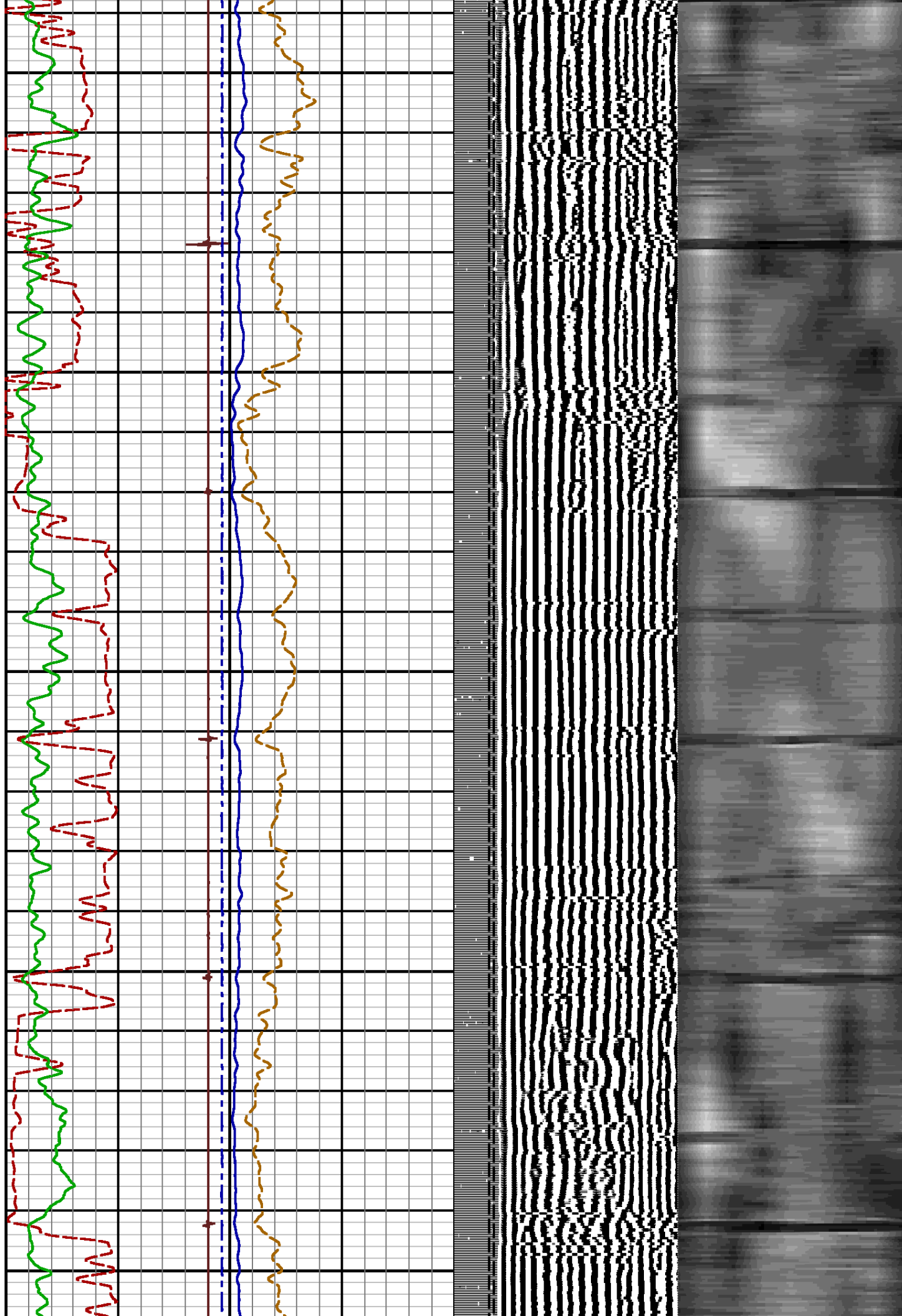
1100

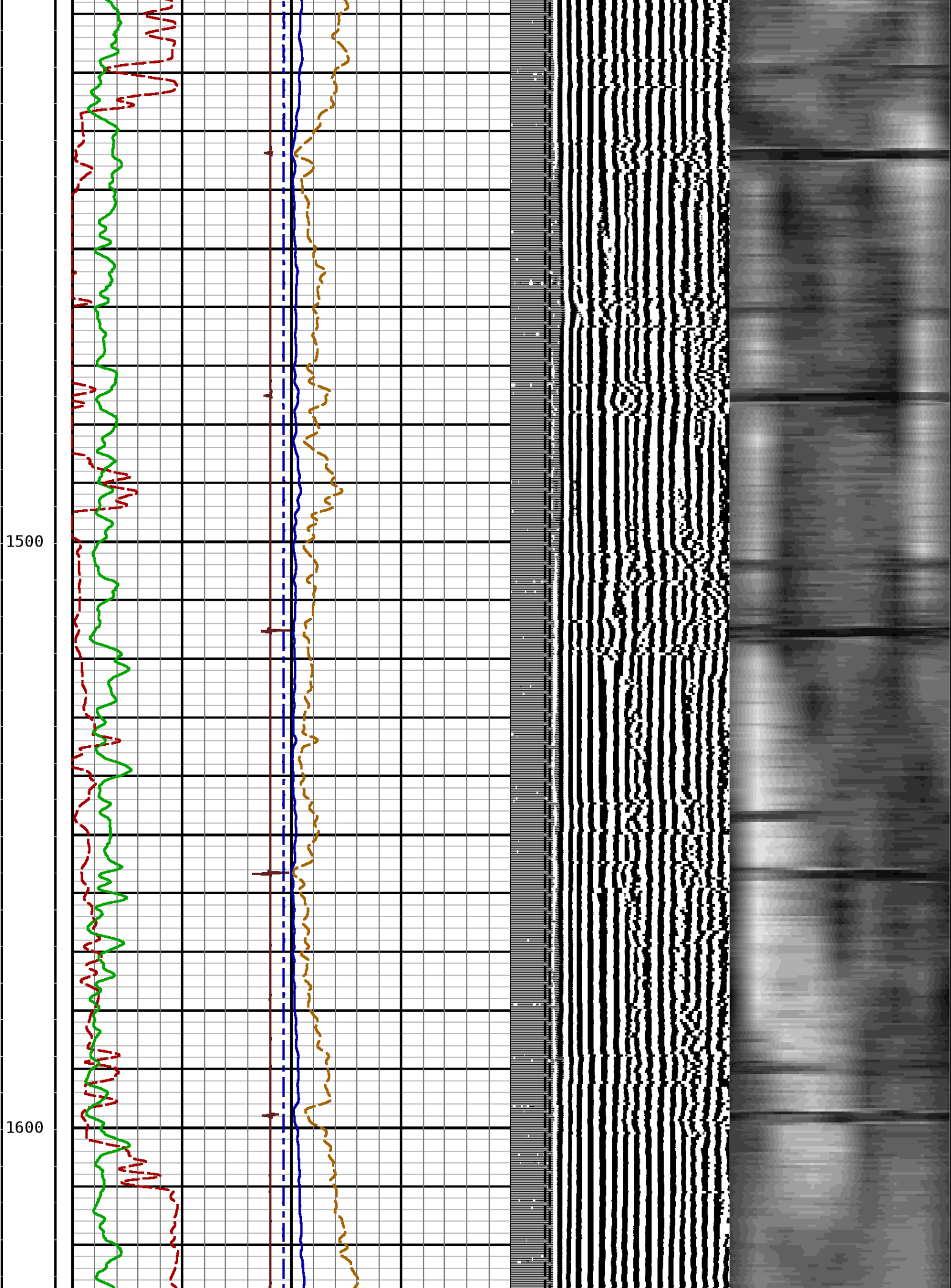


1200

1300

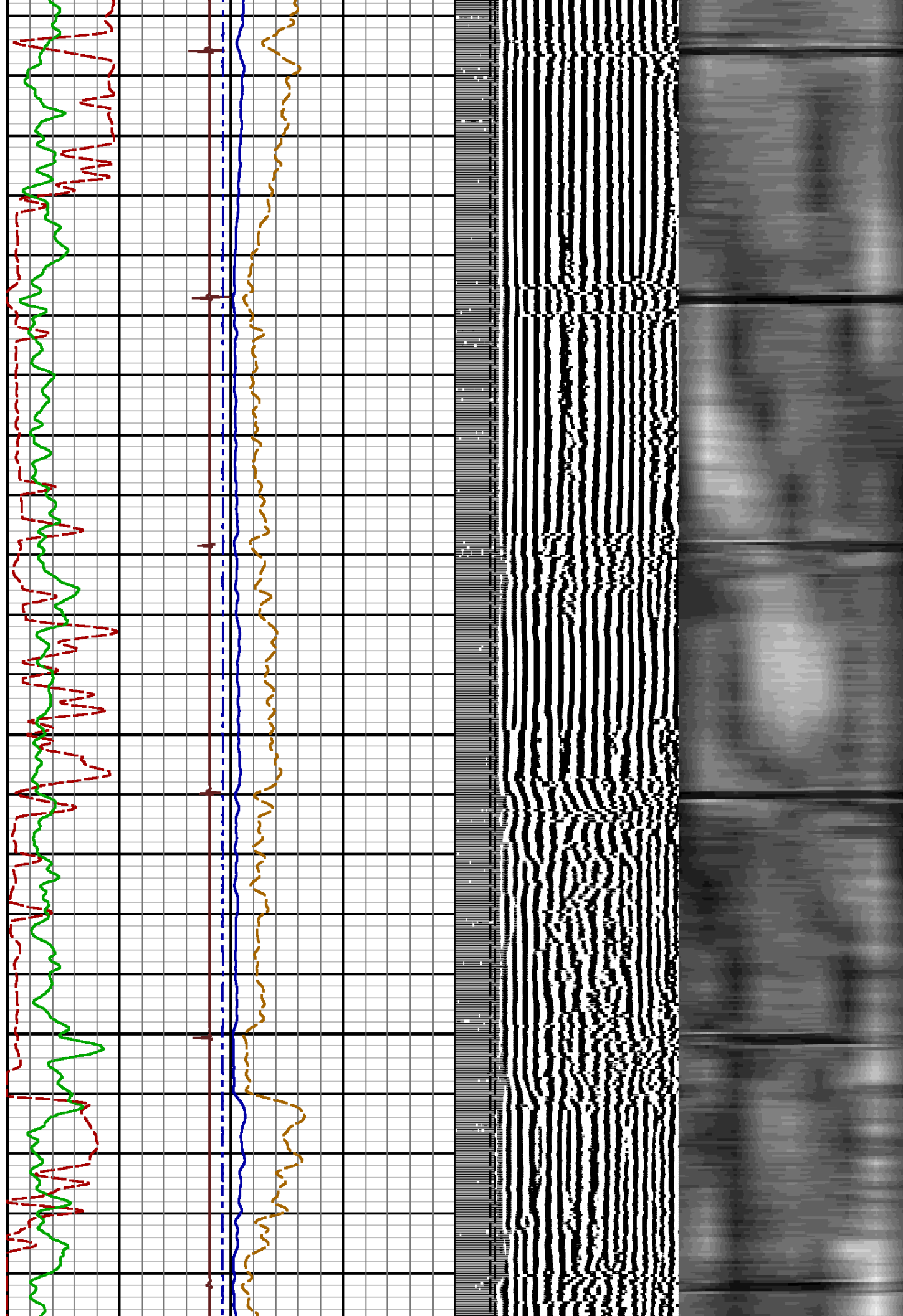
1400





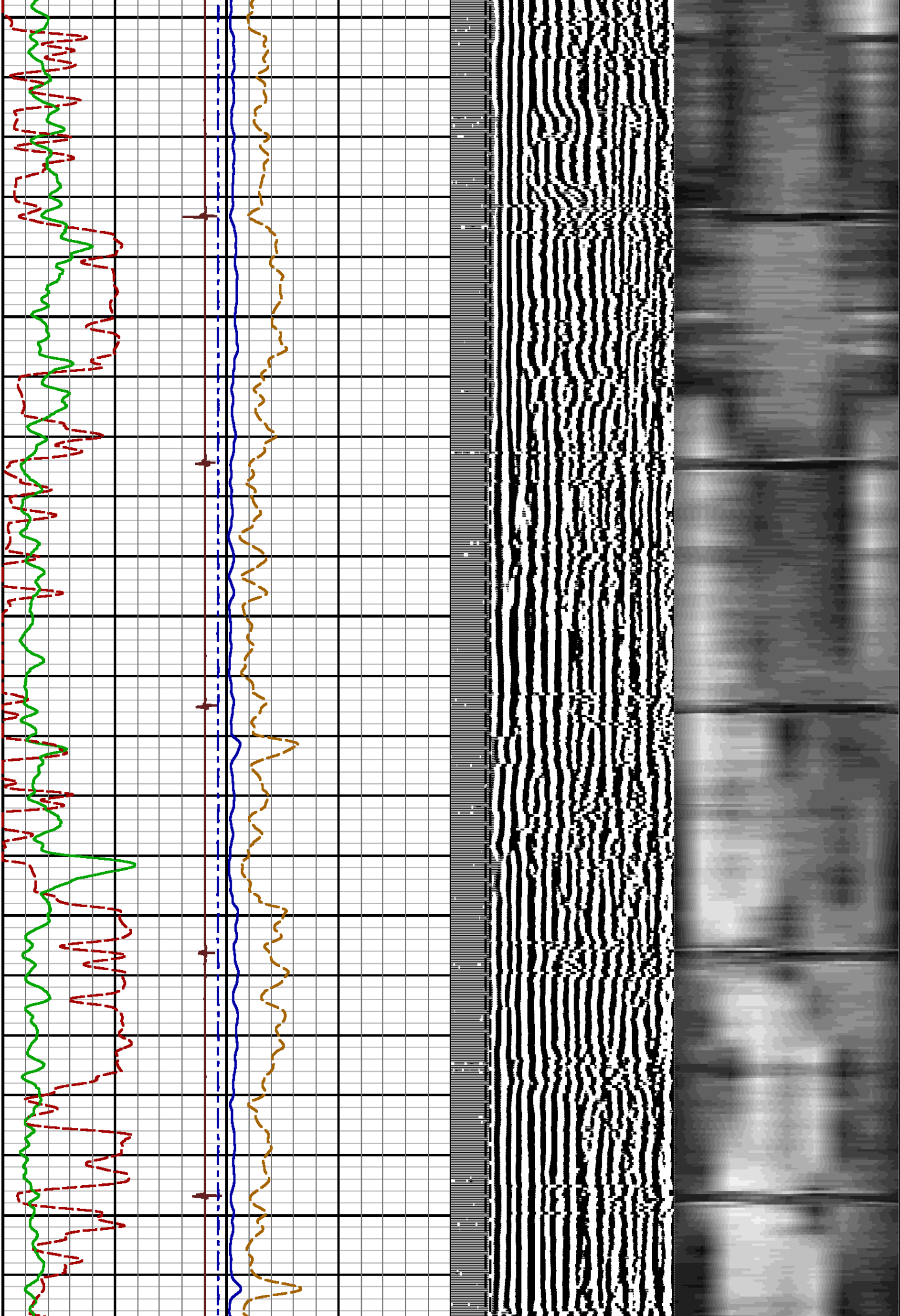
1700

1800



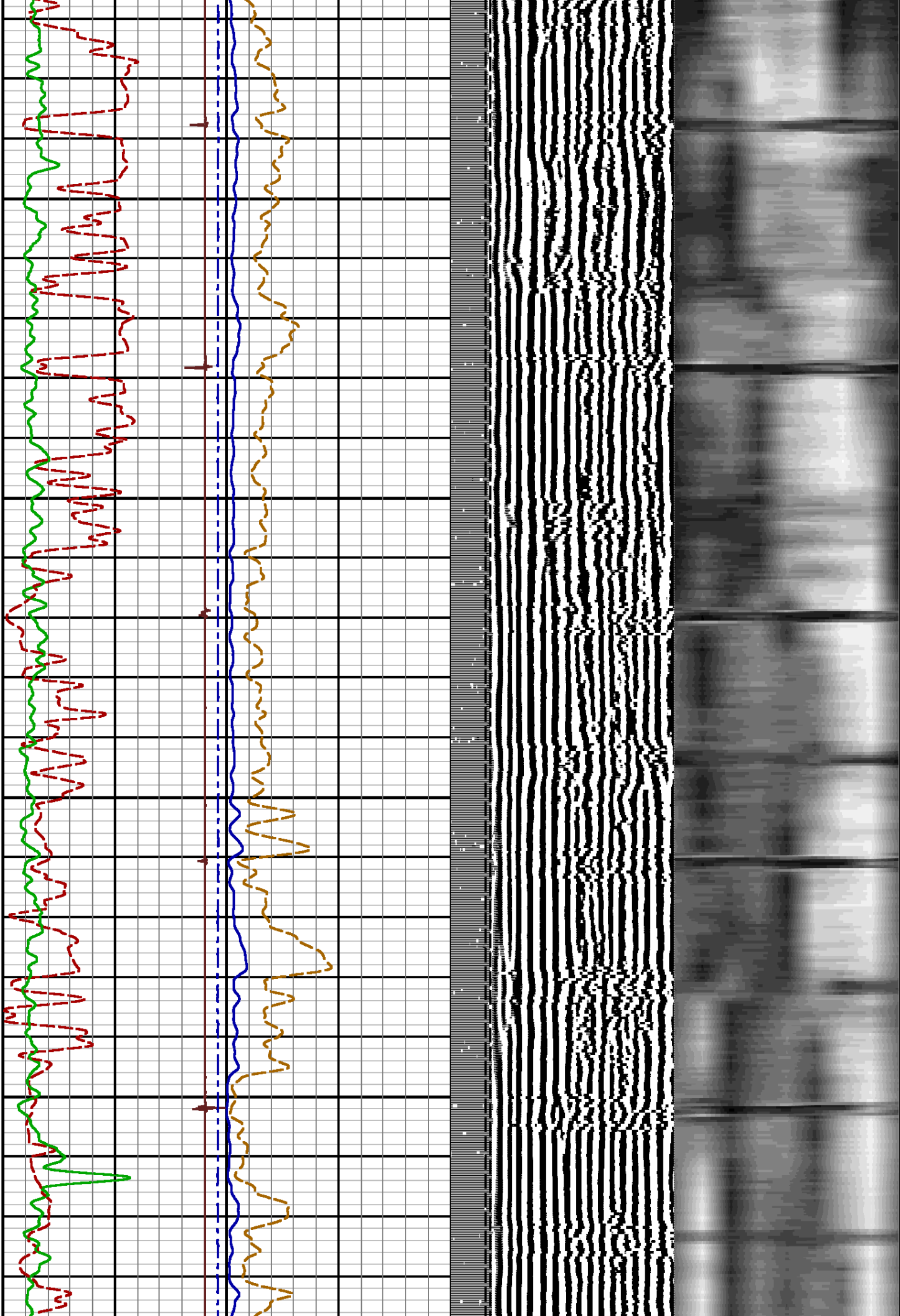
1900

2000



2100

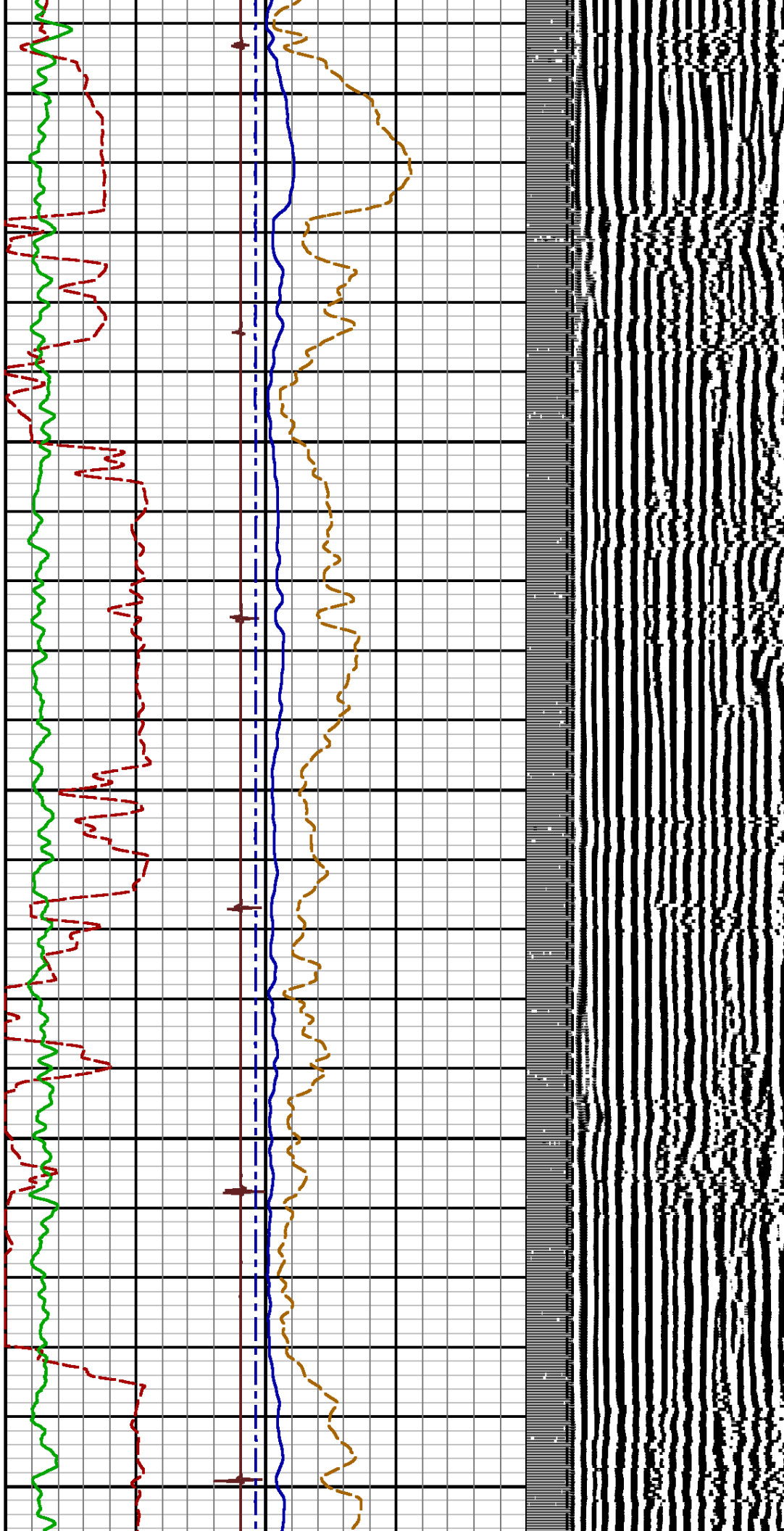
2200



2300

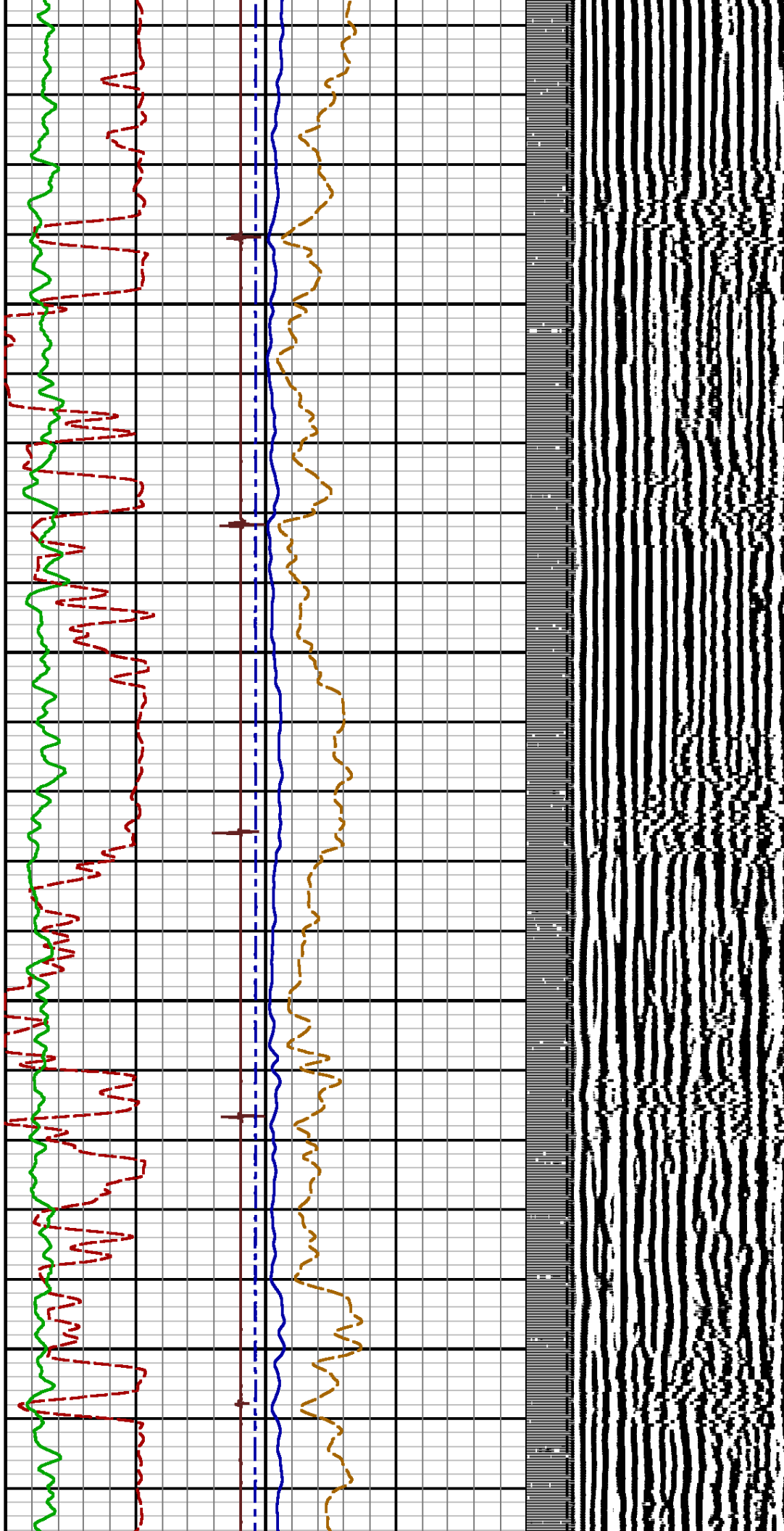
2400

2500



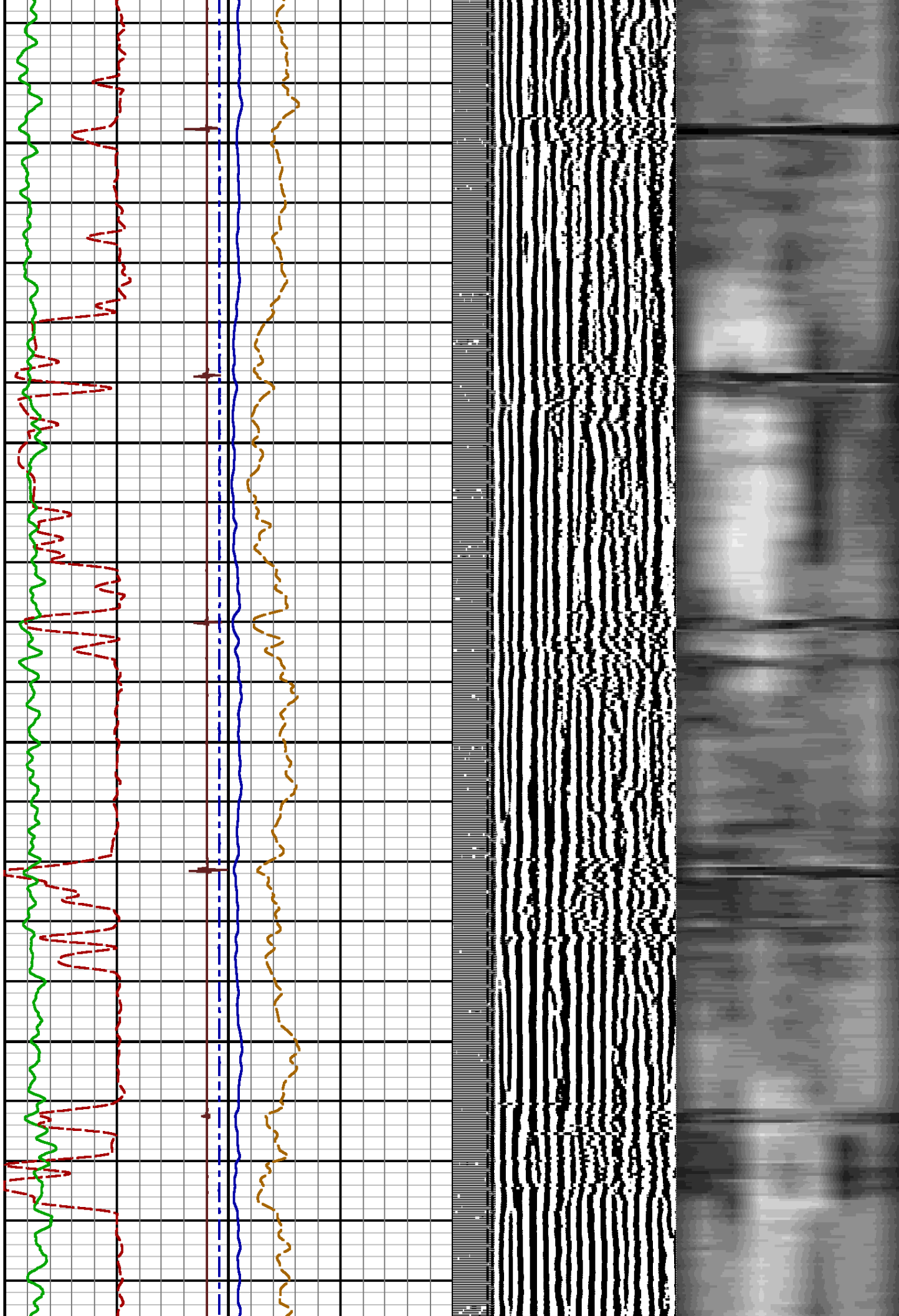
2600

2700



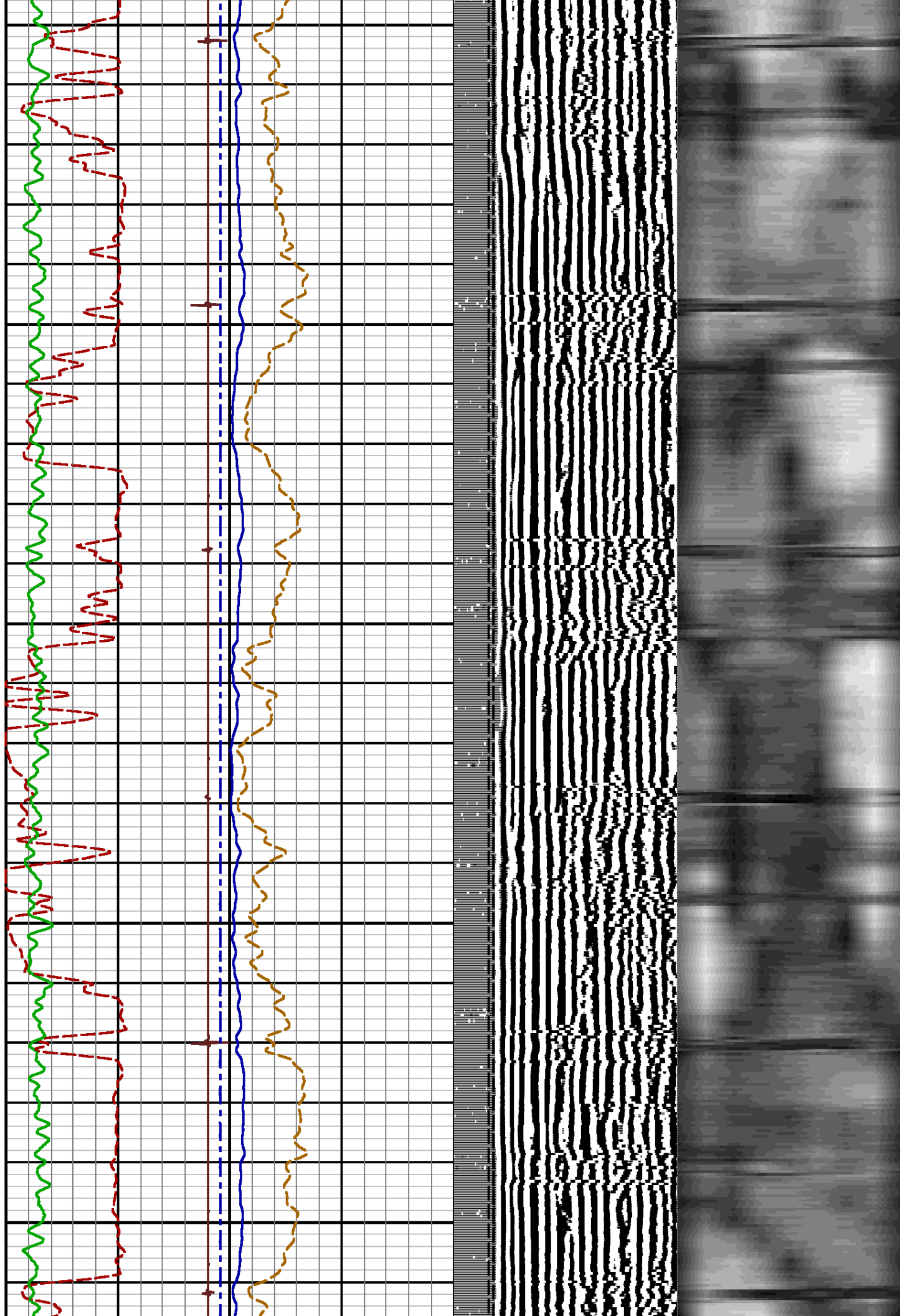
2800

2900



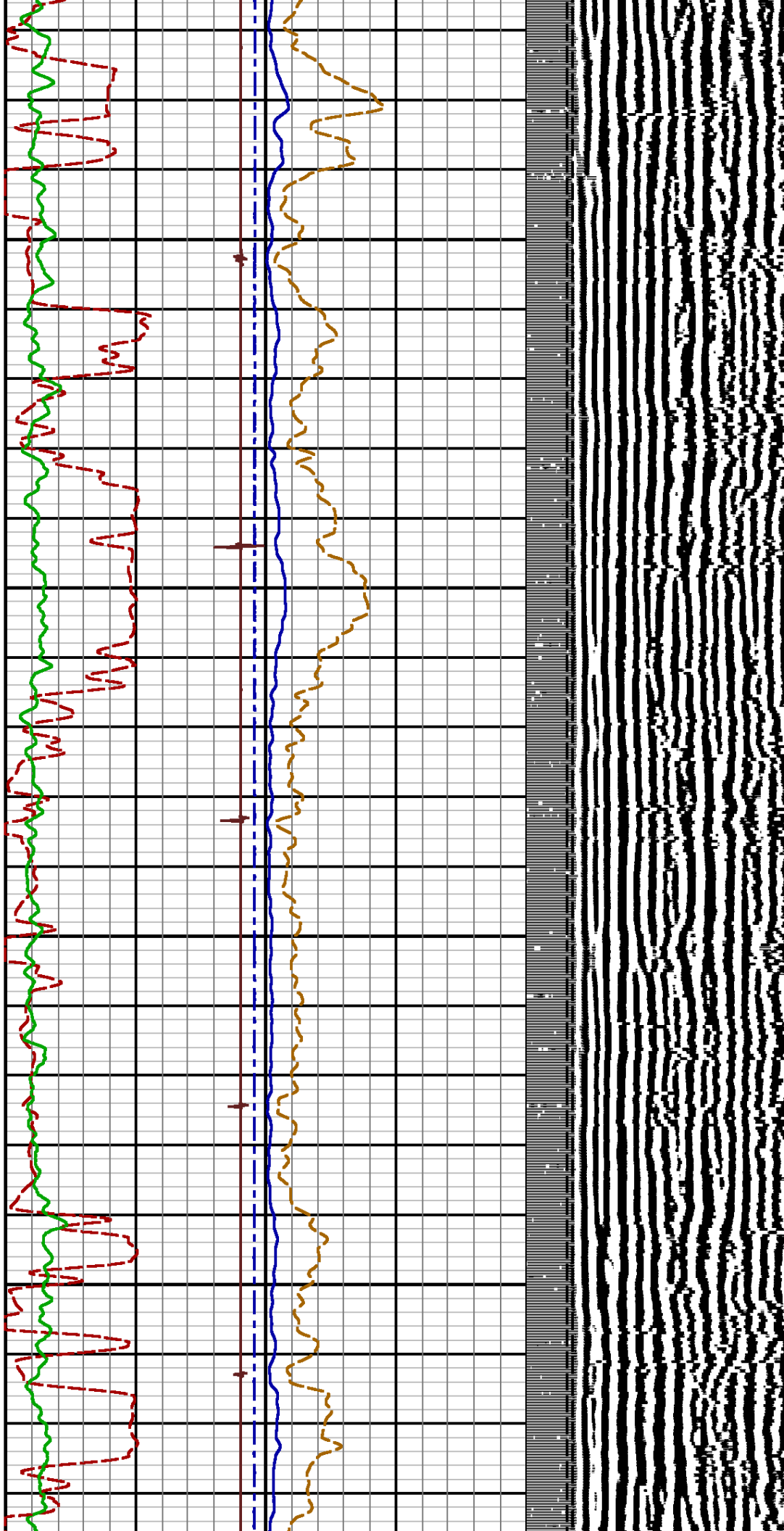
3000

3100



3200

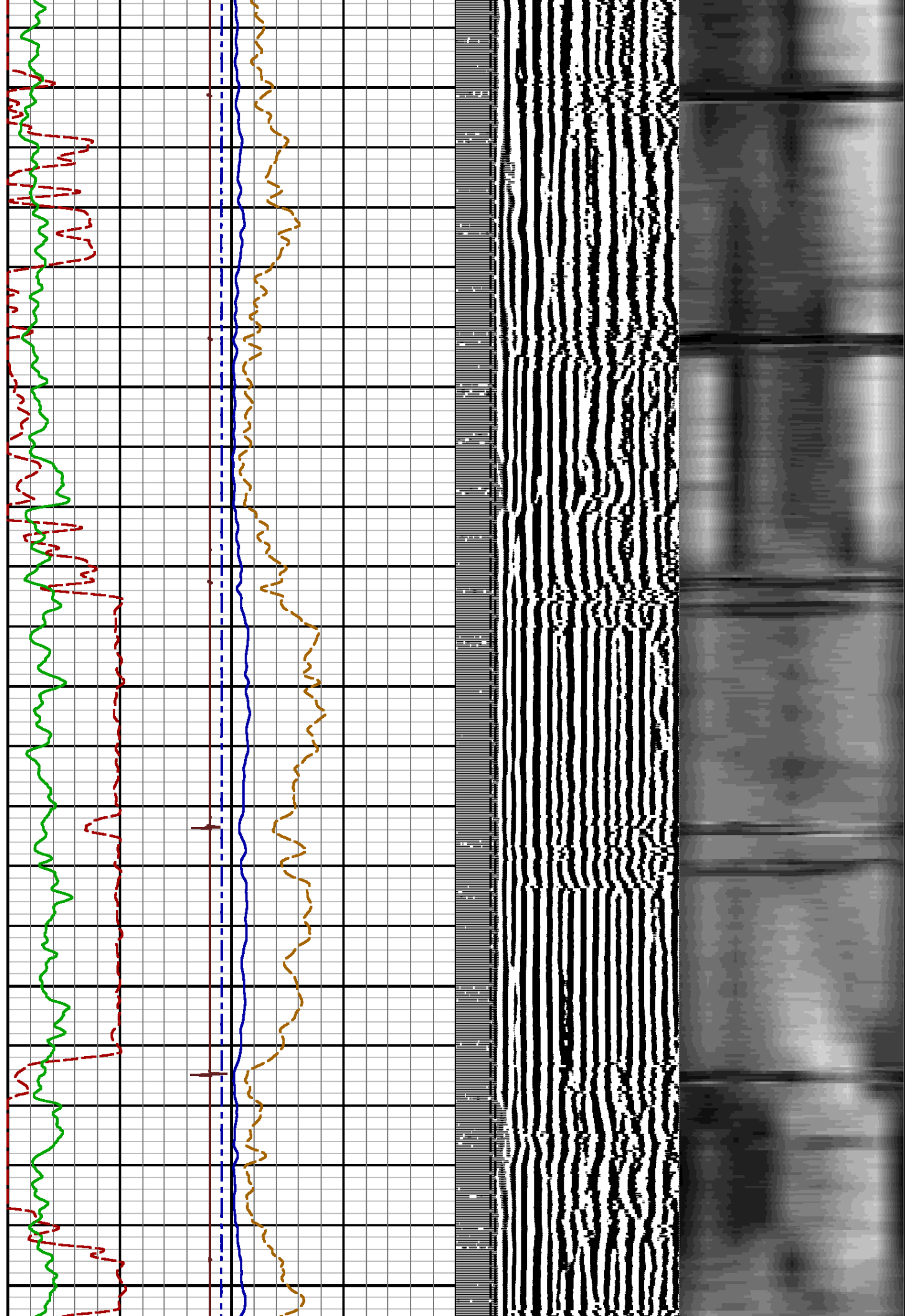
3300



3400

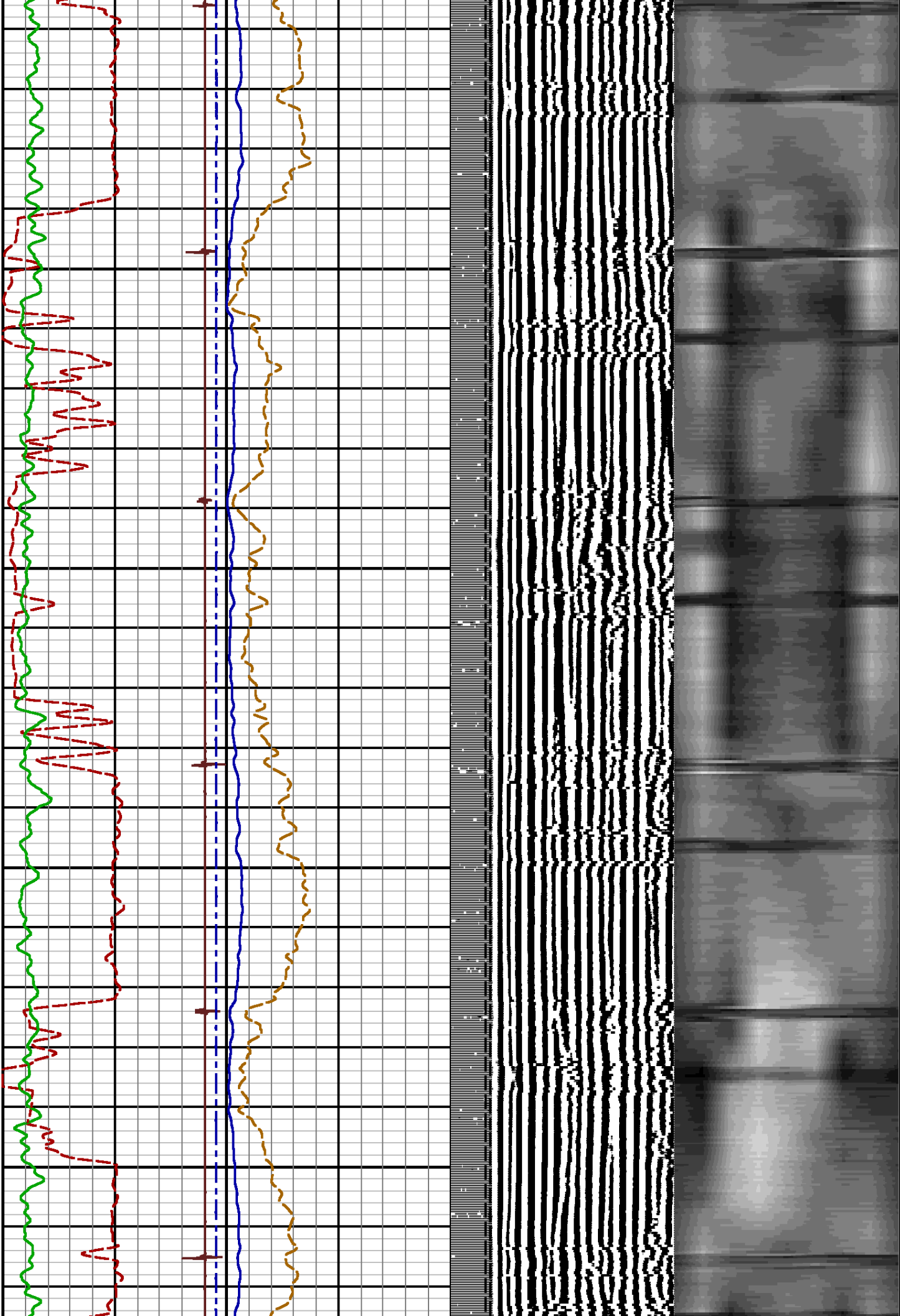
3500

3600



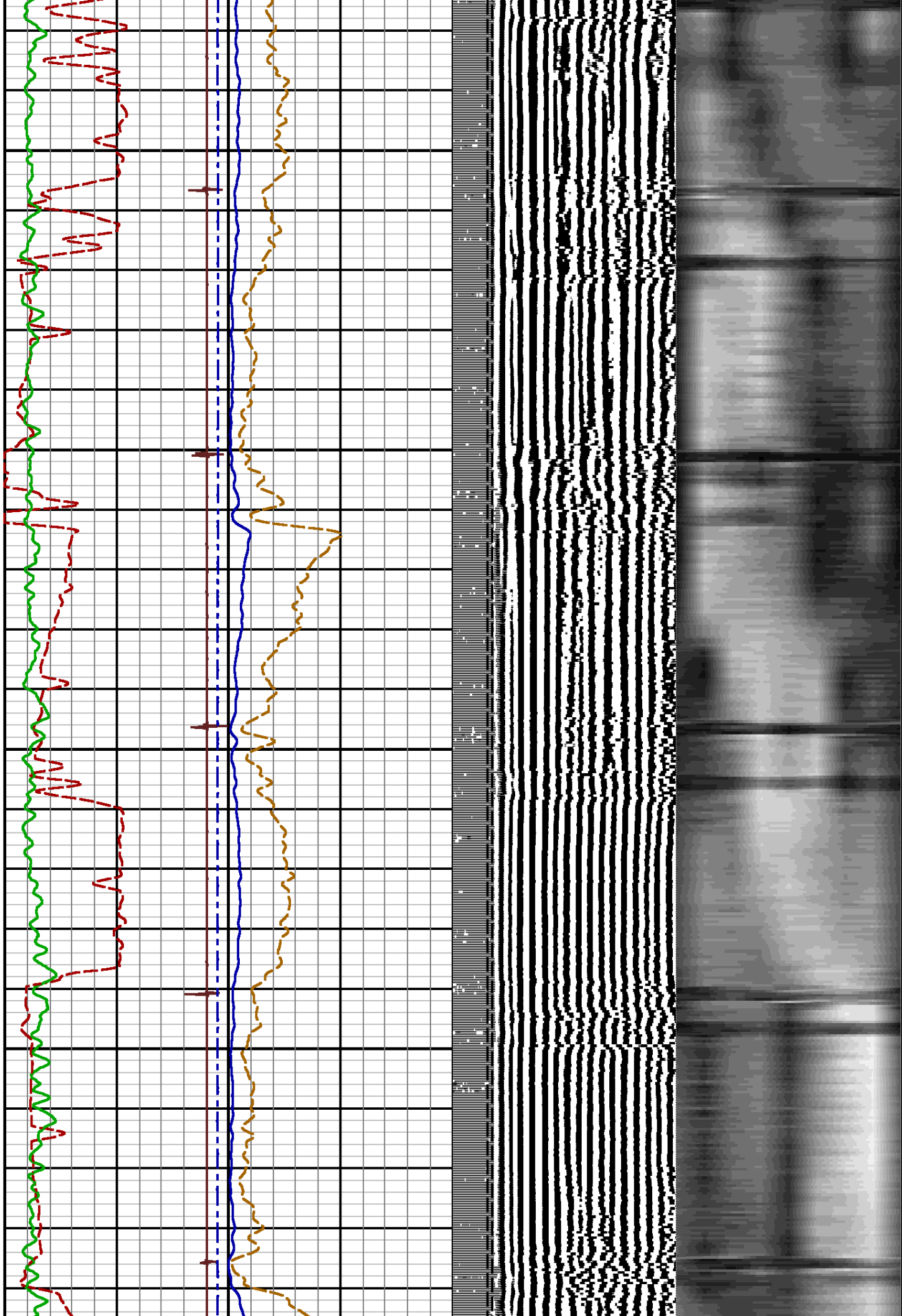
3700

3800



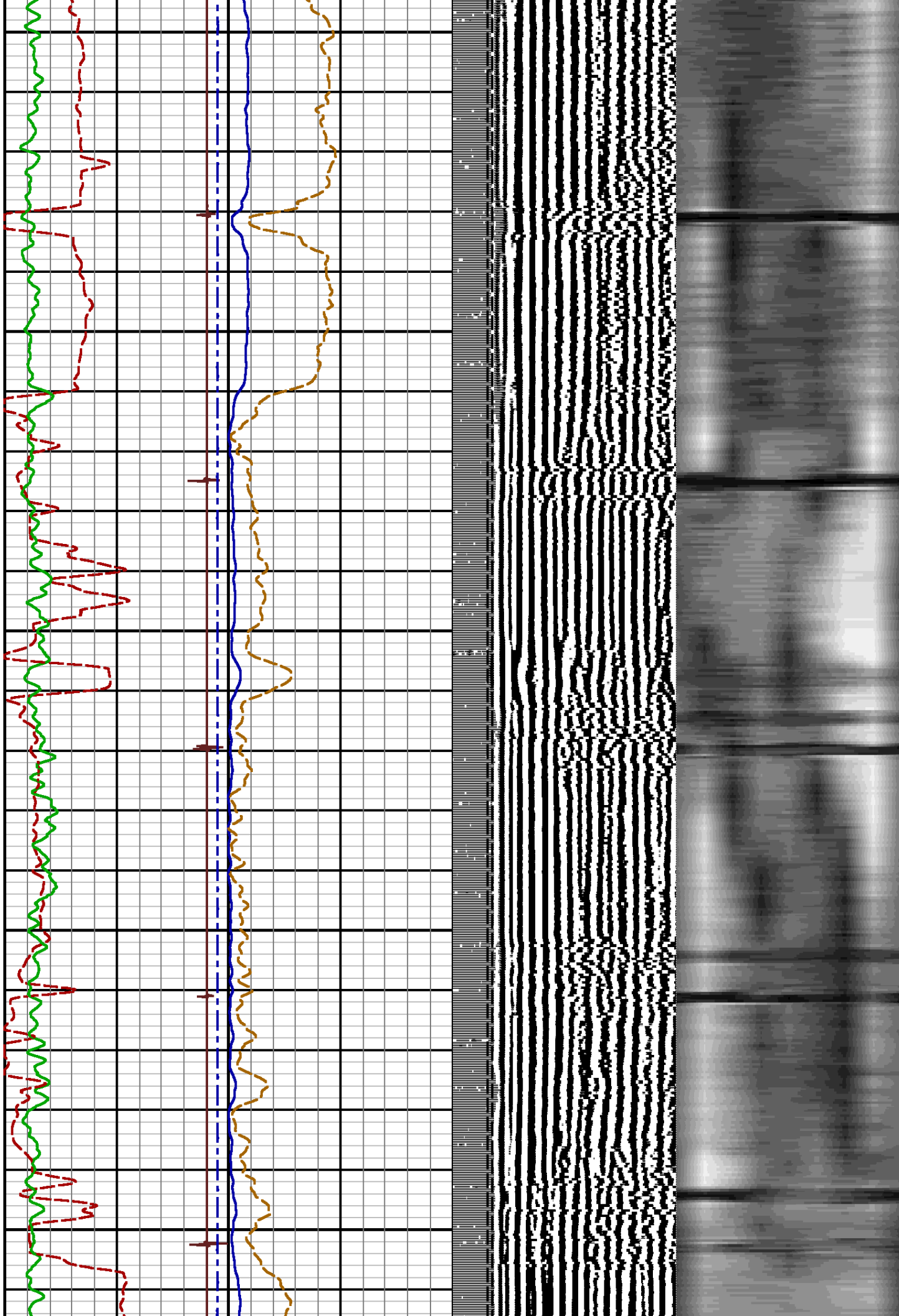
3900

4000



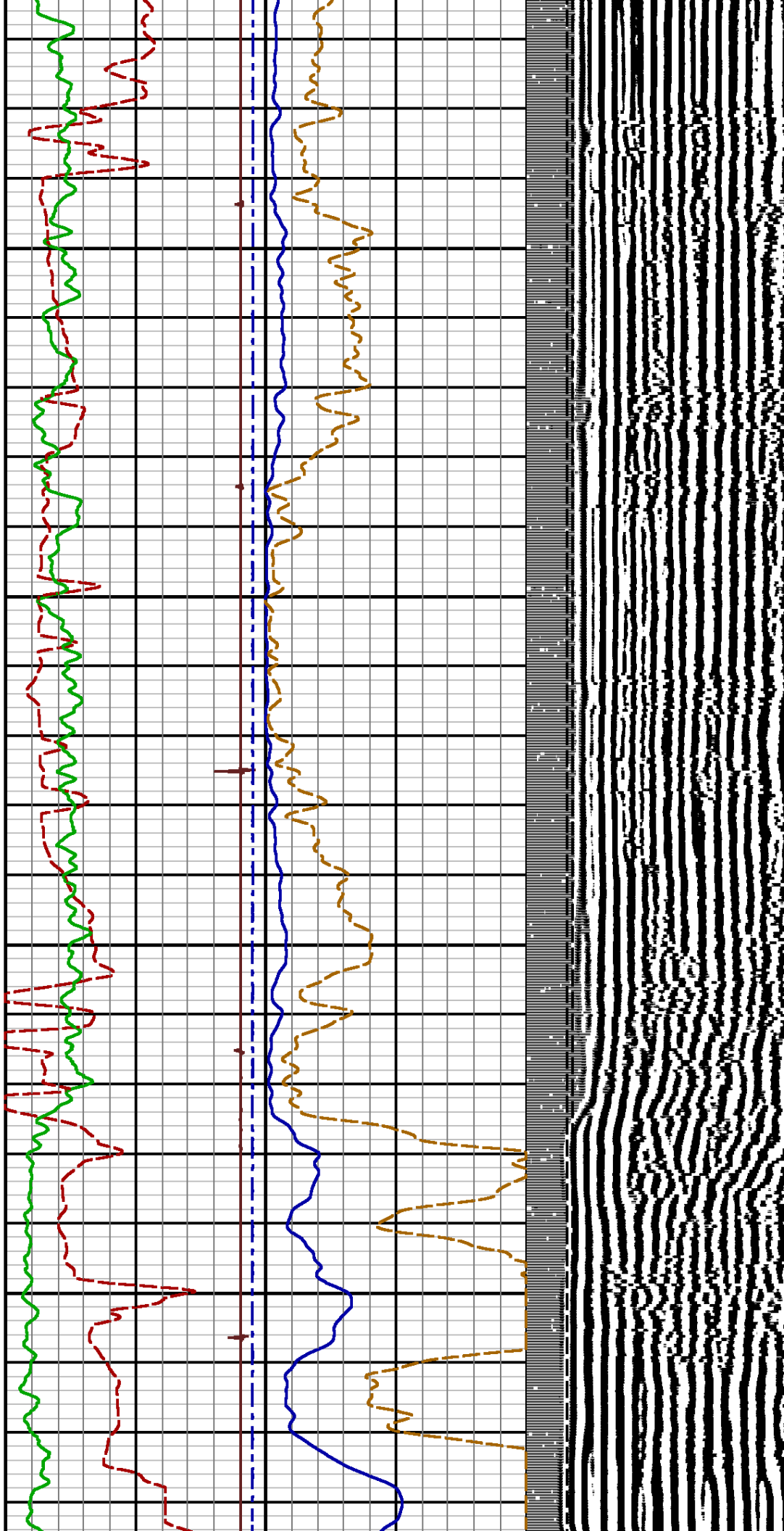
4100

4200



4300

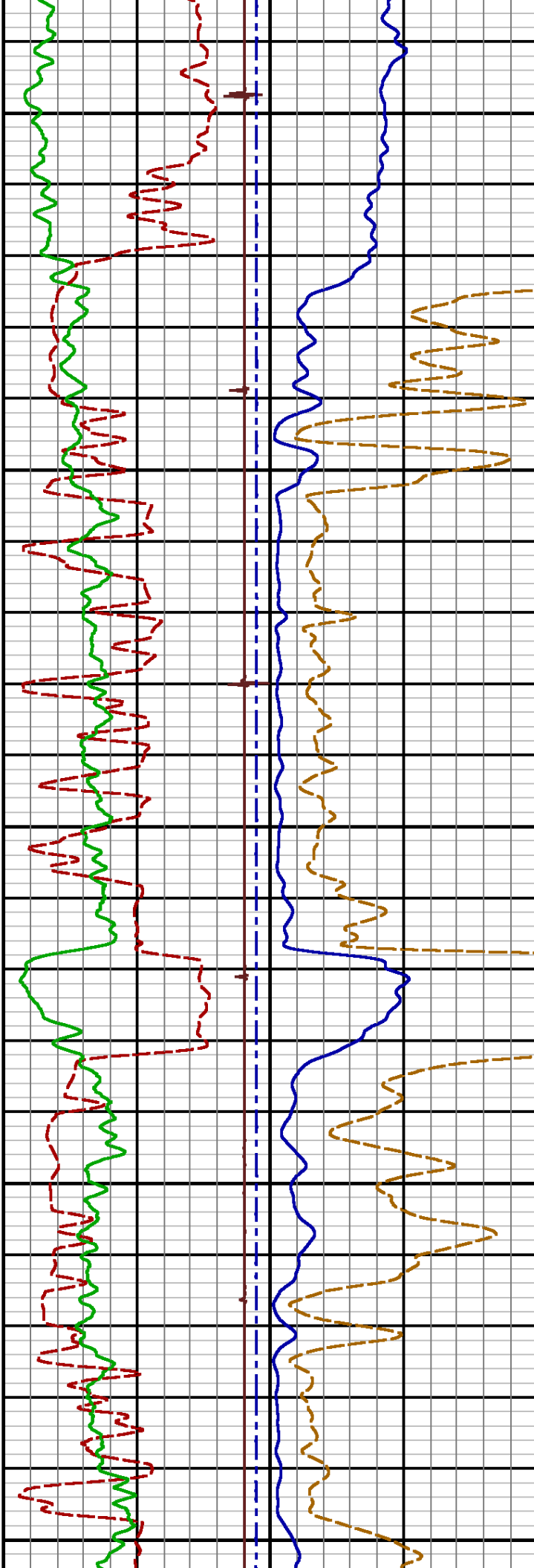
4400



4500

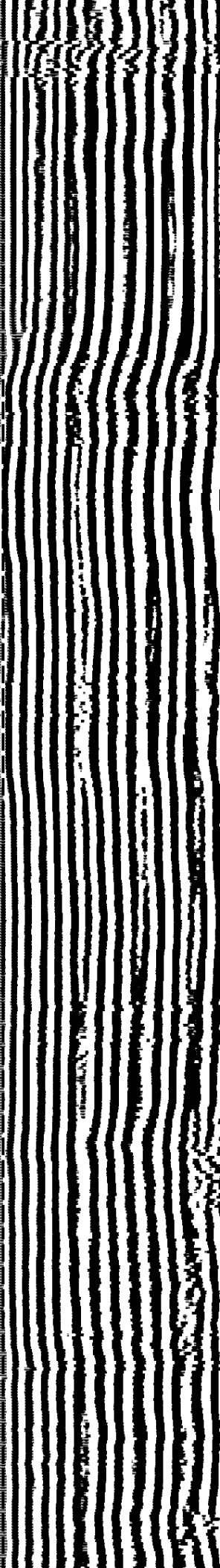
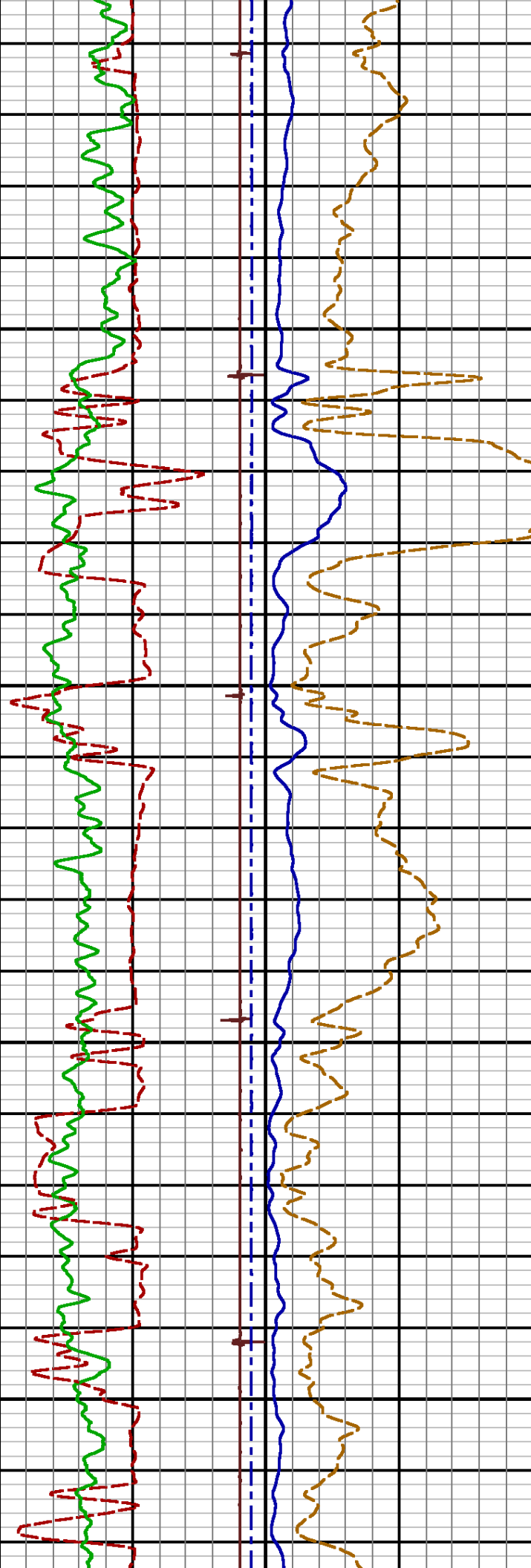
4600

4700



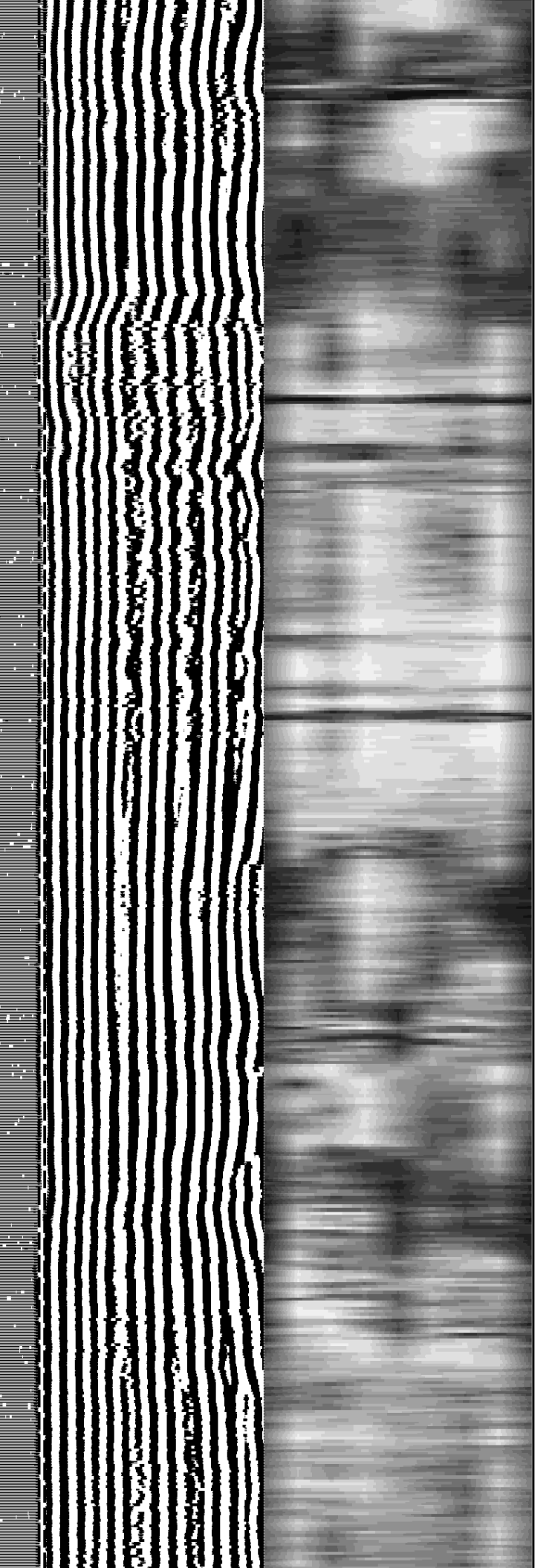
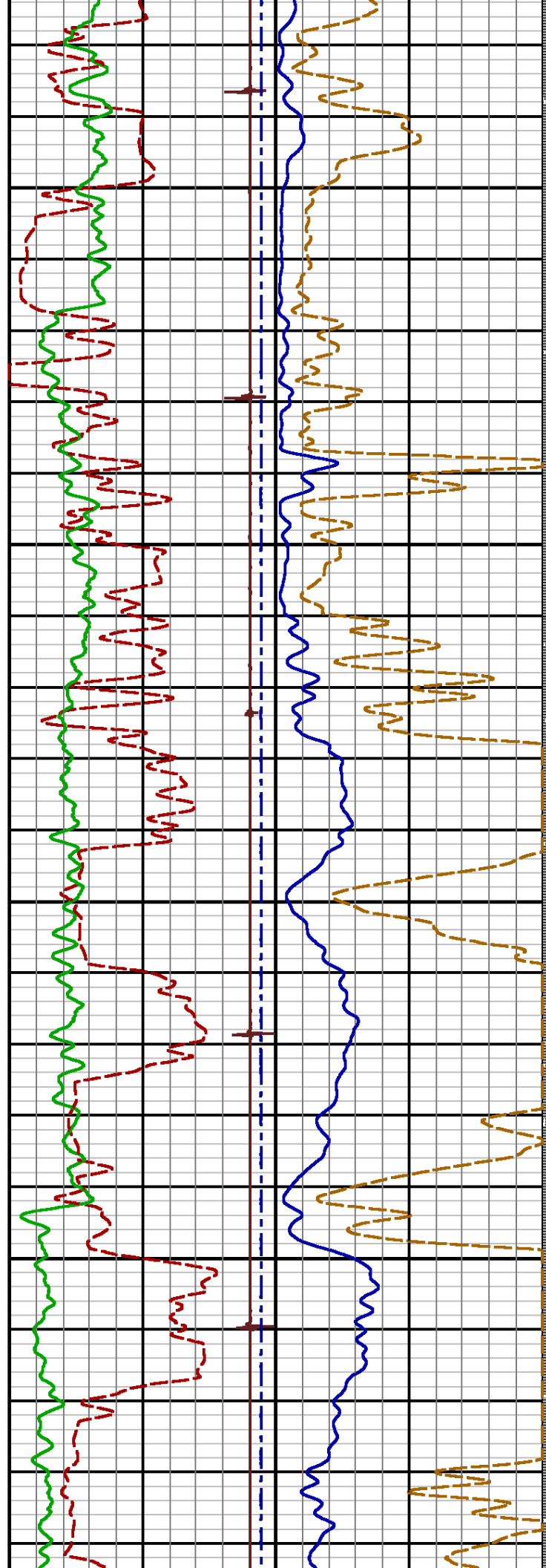
4800

4900



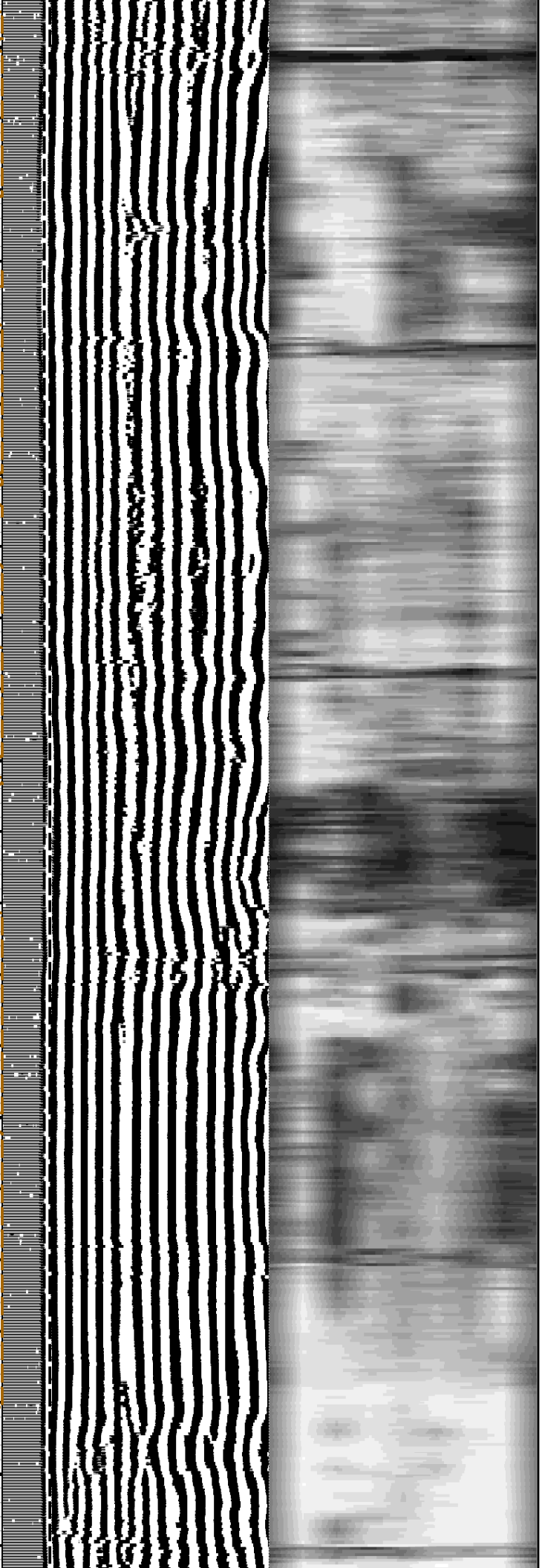
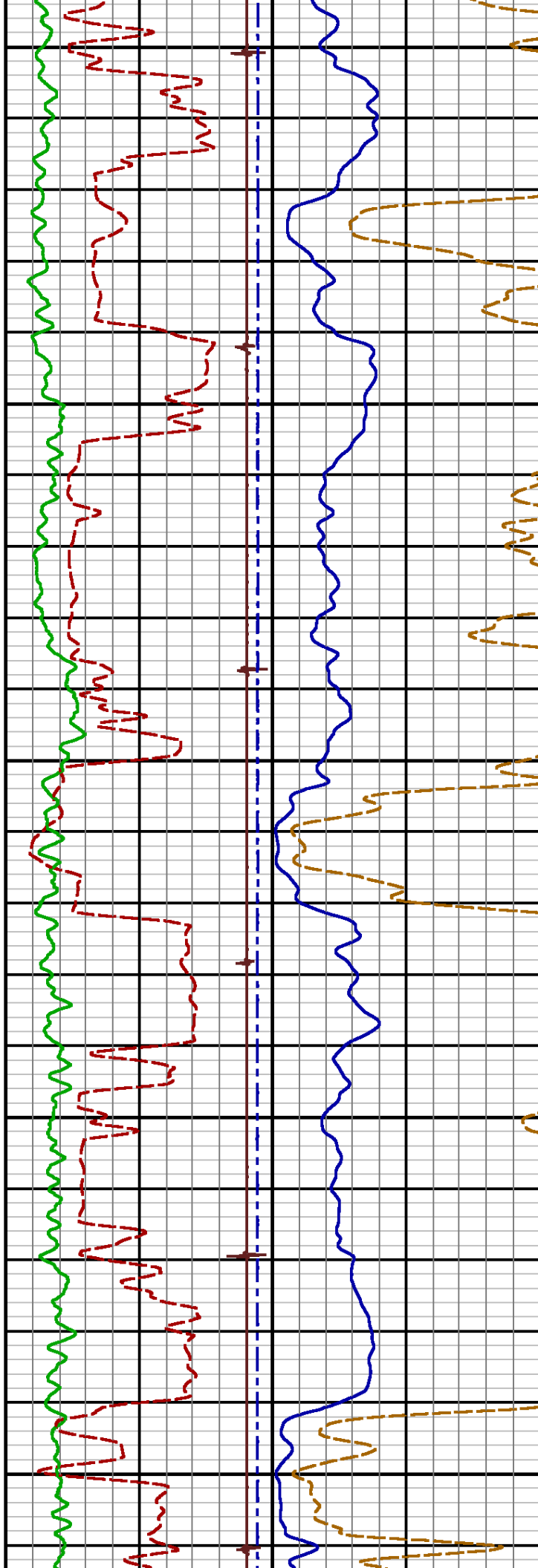
5000

5100



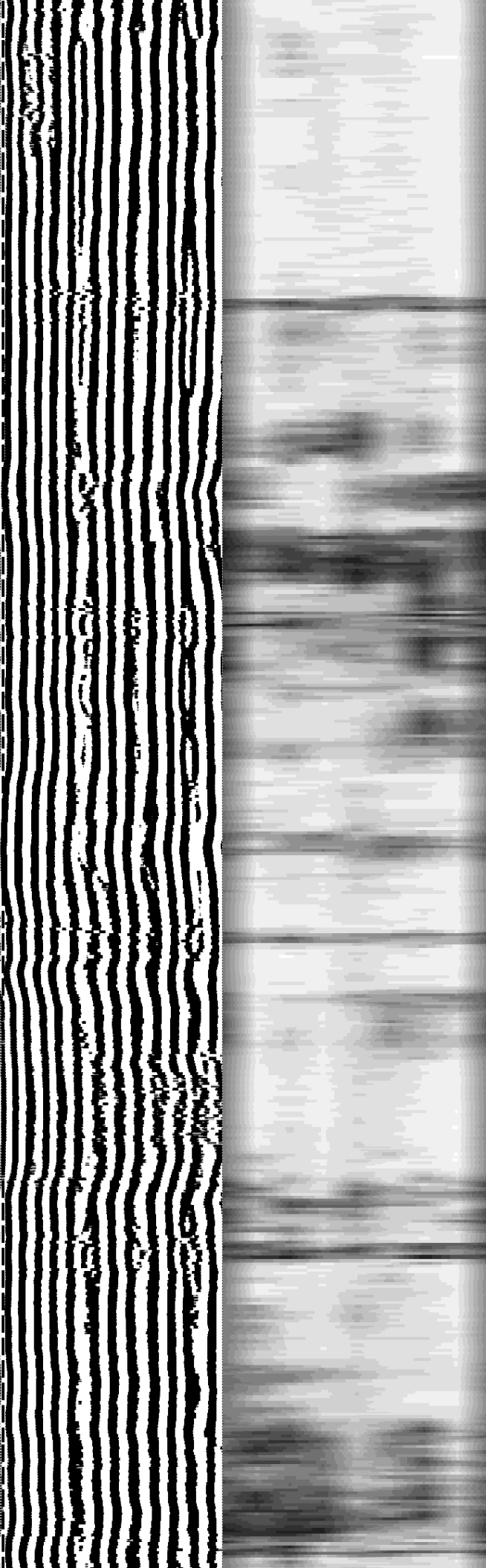
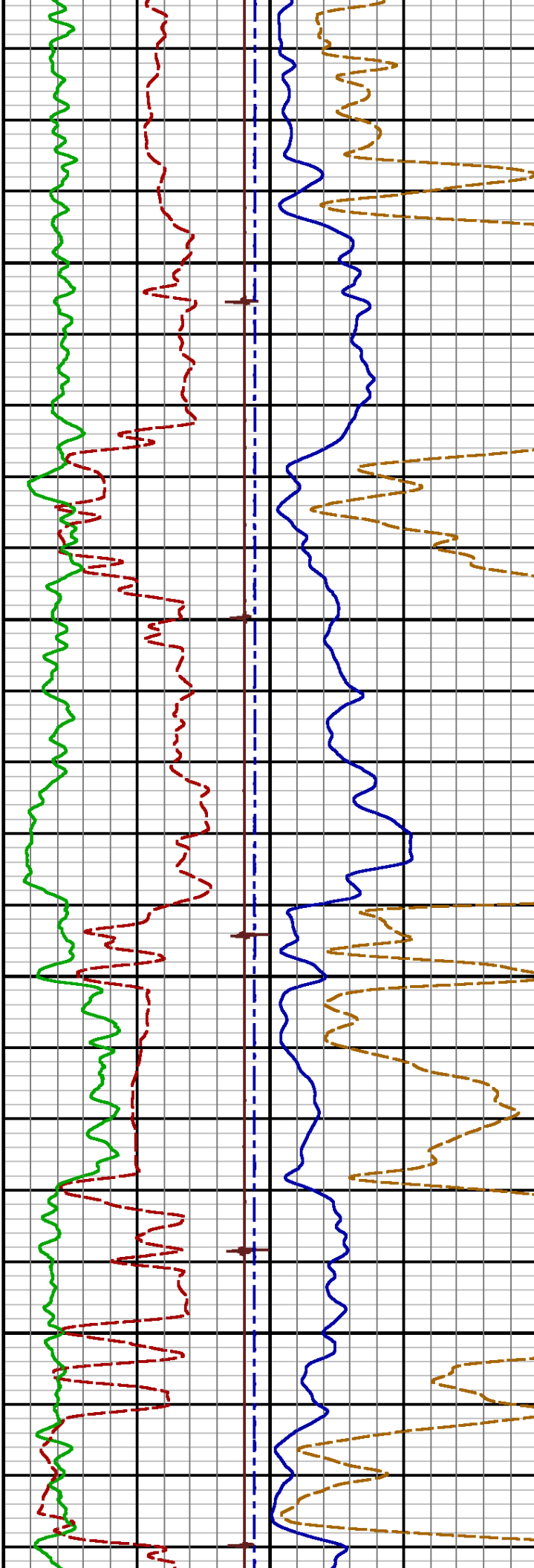
5200

5300



5400

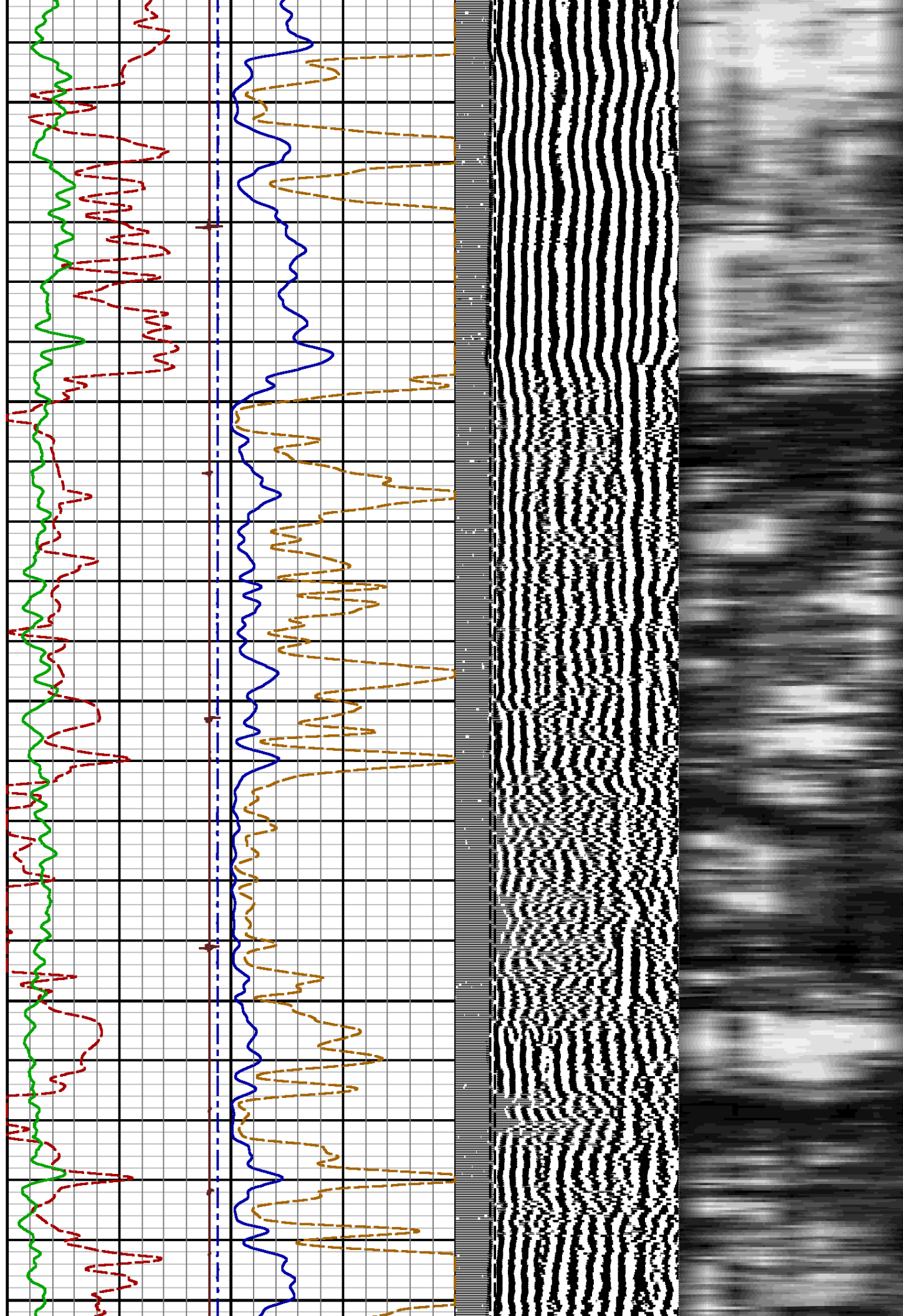
5500

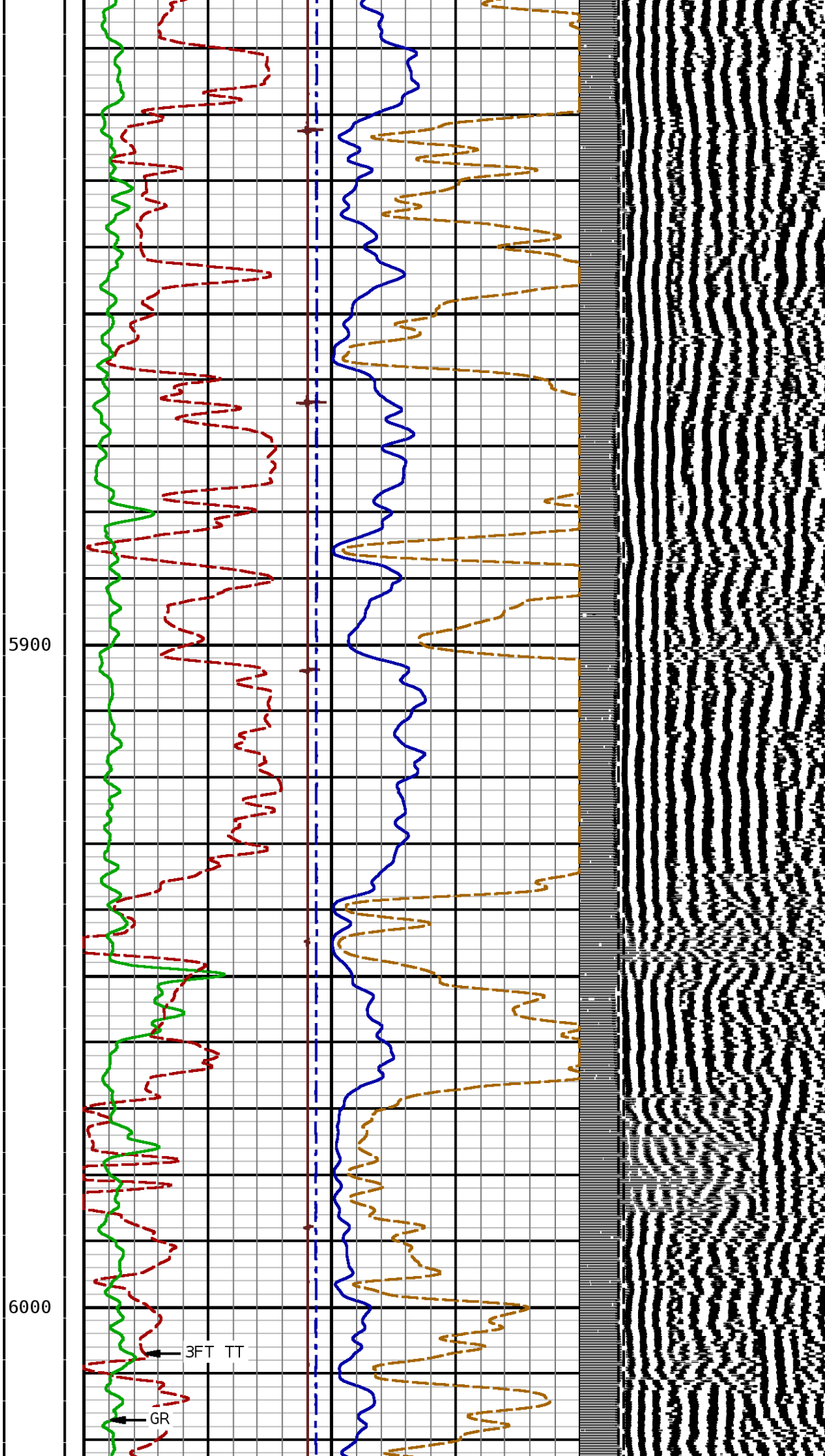


5600

5700

5800





6100

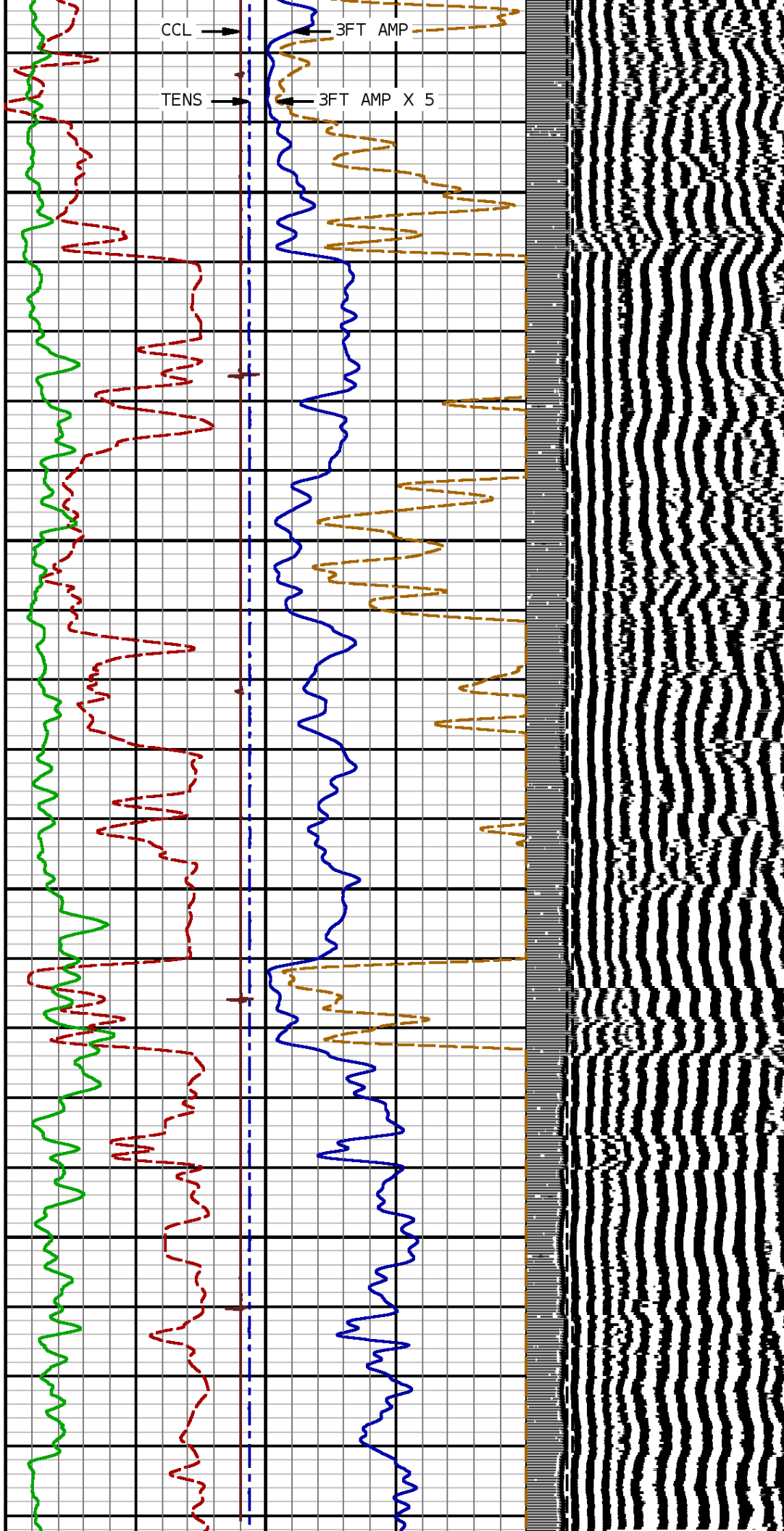
6200

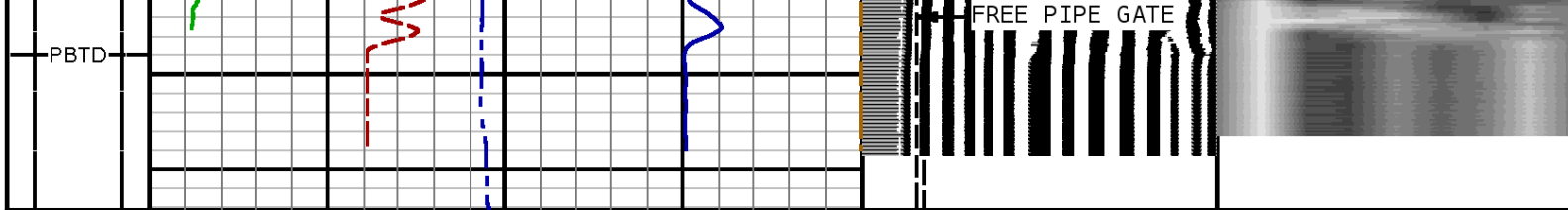
CCL →

TENS →

3FT AMP

3FT AMP X 5





	3FT TT 305 Microseconds 205	3FT AMP 0 Millivolts 100	VDL 200 Microseconds 1200	VARIABLE ENERGY 0 Millivolts 100
	GR 0 API 100	3FT AMP X 5 0 Millivolts 20	FREE PIPE GATE 200.0 Mev 1200.0	
	CCL -10000.0 mv 1000.0		CONSTANT #2 378.0 200.0 Mev 1200.0	
	Tension 10000 Pounds 0			

START DEPTH: 6264.3 DIRECTION: UP DATE: 03/24/2015 TIME: 09:16 MODE: RECOMPUTE

RECOMPUTED DATE: 03/24/2015 TIME: 09:16

114331751 sbt3

MAIN PASS

DEPTH SCALE: 5":100' LOGGED VERSION: 2012.07.18.162"

REMARKS

LOGGED WITH 0 # PSI

DEPTH SCALE: 5":100' PROCESSED VERSION: 2012.07.18.162"

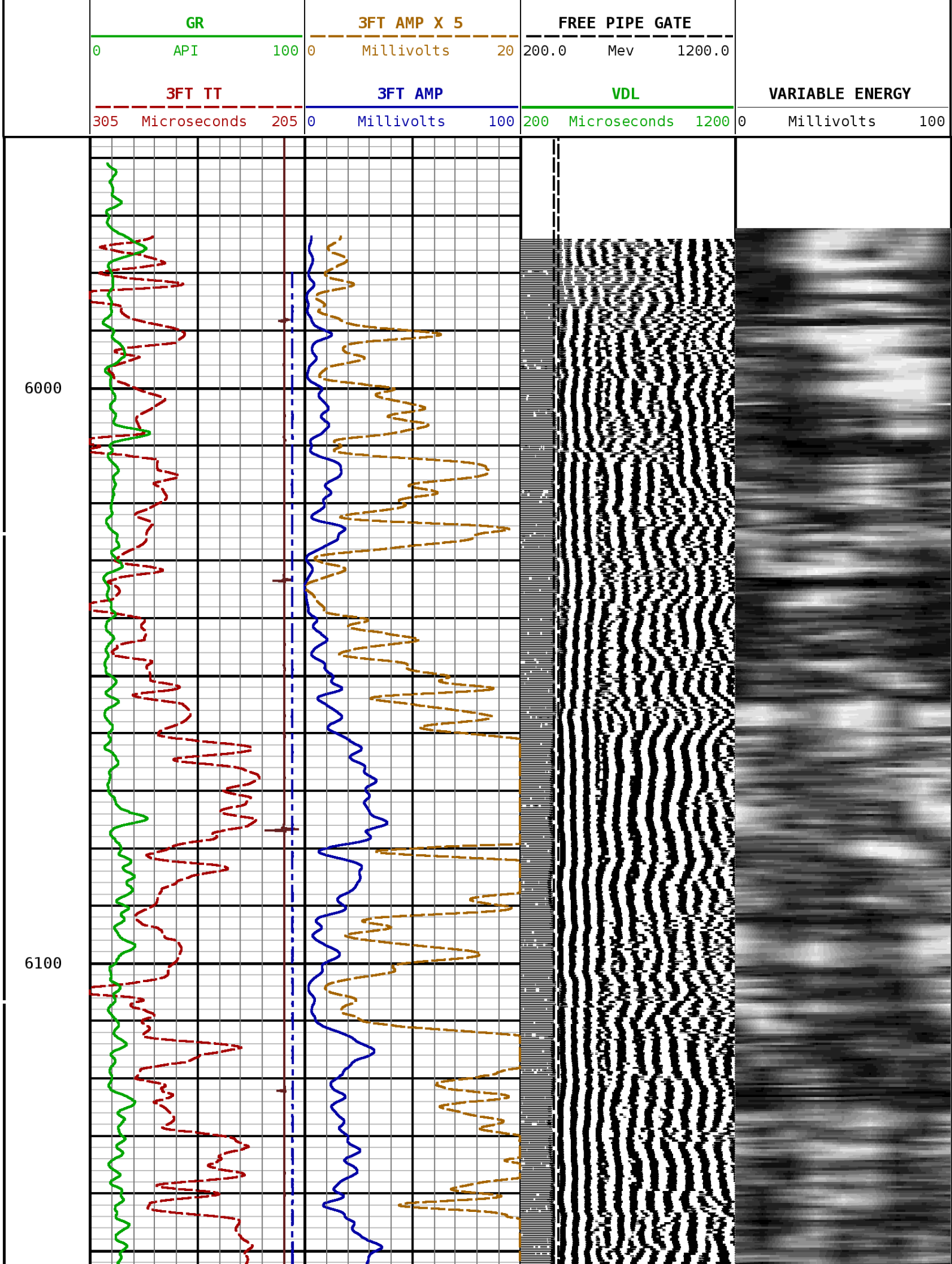
REPEAT PASS

114331751 sbt1

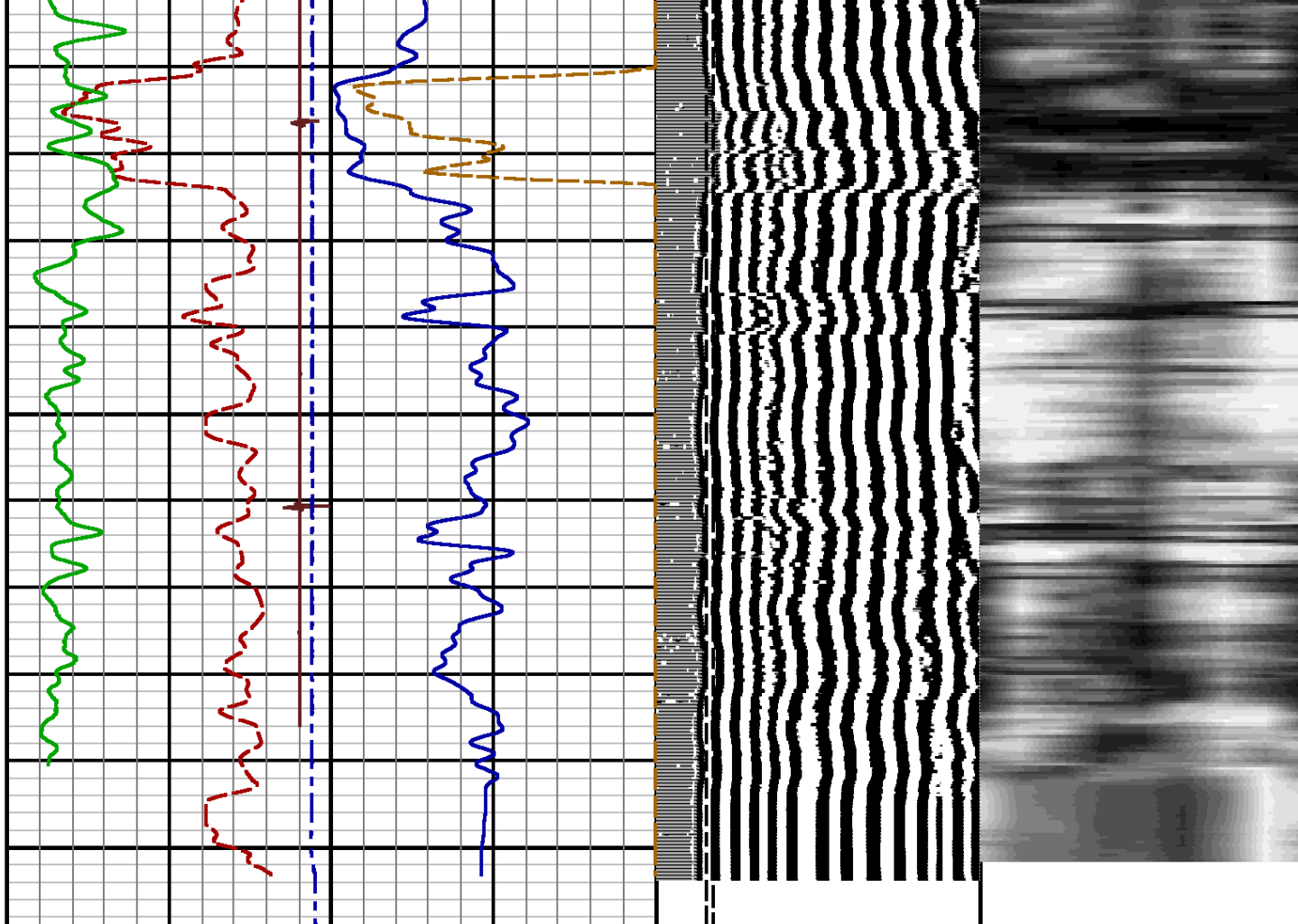
FINISH DEPTH: 5976.4 Feet DIRECTION: UP DATE: 03/24/2015 TIME: 07:44 MODE: RECOMPUTE

RECOMPUTED DATE: 03/24/2015 TIME: 08:18

	Tension 10000 Pounds 0	
	CCL -10000.0 mv 1000.0	CONSTANT #2 378.0 200.0 Mev 1200.0



6200



3FT TT
 305 Microseconds 205

GR
 0 API 100

CCL
 -10000.0 mv 1000.0

Tension
 10000 Pounds 0

3FT AMP
 0 Millivolts 100

3FT AMP X 5
 0 Millivolts 20

VDL
 200 Microseconds 1200

FREE PIPE GATE
 200.0 Mev 1200.0

CONSTANT #2 378.0
 200.0 Mev 1200.0

VARIABLE ENERGY
 0 Millivolts 100

START DEPTH: **6255.8** DIRECTION: **UP** DATE: **03/24/2015** TIME: **07:40** MODE: **RECOMPUTE**
 RECOMPUTED DATE: **03/24/2015** TIME: **08:18**

114331751 sbt1

REPEAT PASS

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

LOGGED VERSION: **2012.07.18.162"**

1 7/16 Adapter Head

Weight

Length

Max. Diameter

Total Stack Weight

in air

Total Stack Length

Slim Hole Centralizer

Weight

Length

Max. Diameter

Collar Locator

Weight

Length

Max. Diameter

Slim Hole Gamma Ray

Weight

Length

Max. Diameter

Slim Hole Centralizer

Weight

Length

Max. Diameter

Sector Bond

Weight

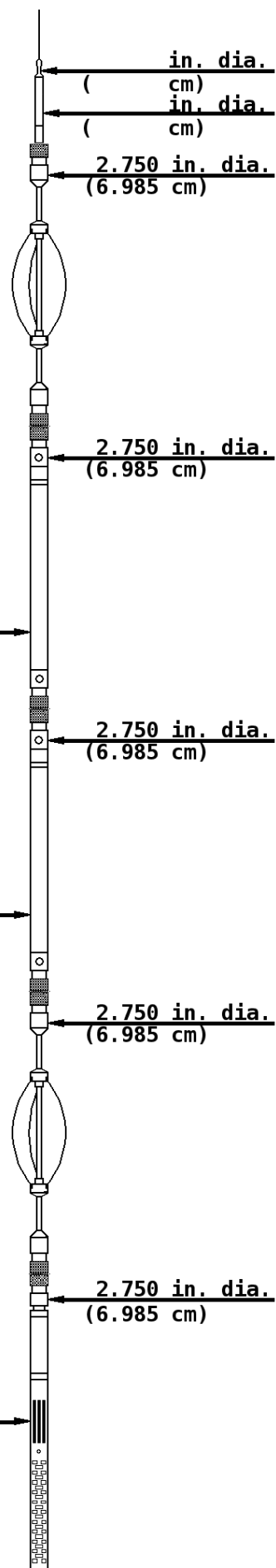
Length

Max. Diameter

CCL

GR

SBT/CBL Tx



SBT Rx

3' Rx

5' Rx

2.750 in. dia.
(6.985 cm)

Slim Hole Centralizer

Weight
Length
Max. Diameter

COMPANY APACHE CORPORATION

WELL AA0 FEDERAL SWD #1

FIELD ARTESIA

COUNTY EDDY STATE NEW MEXICO



Weatherford®