



PIONEER

Pioneer Energy Services

**RADIAL BOND LOG
WITH GAMMA RAY**

Company **ANADARKO**
Well **CHAMPLIN 86 AMOCO G1**
Field **WATTENBURG**
County **WELD** State **COLORADO**

Comp. **ANADARKO**
Well **CHAMPLIN 86 AMOCO G1**
Field **WATTENBURG**
Co. **WELD**
State **COLORADO**

Location: API #: 0512312406 Other Services
SEC 17 TWP 1N RGE 68W
Permanent Datum GL Elevation 5100'
Log Measured From GL 0 Above Perm. Datum
Drilling Measured From KB
K.B. 5111'
D.F. 5110'
G.L. 5100'

Date of Service 11 APRIL 2017

Run Number ONE

Depth Driller or PBTD 8450'

Depth Logger 7364'

Bottom Log Interval 7364'

Top Log Interval SURFACE

Open Hole Size N/A

Type Fluid WATER

Fluid Level 90'

Fluid Density N/A

Max. Recorded Temperature 207 DEG

Max. Wellhead Pressure 0 PSI

Wellhead Connection N/A

Estimated Cement Top SEE LOG

Unit Number 38

Wireline Size 9/32

Location FORT MORGAN

Recorded By M.FARRIS

Witnessed By N.LANE

Size

Wt/Ft

Top

Bottom

9.63

36

SURFACE

1067'

7

26

11'

8450'

Production Casing

Liner Record

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew

Engineer: M.FARRIS/ C.BURNS
Operator: G.SOTO
Operator: P.LEUHOLD
Operator:

Tool Data - Services

Serial Number

Top - Bottom

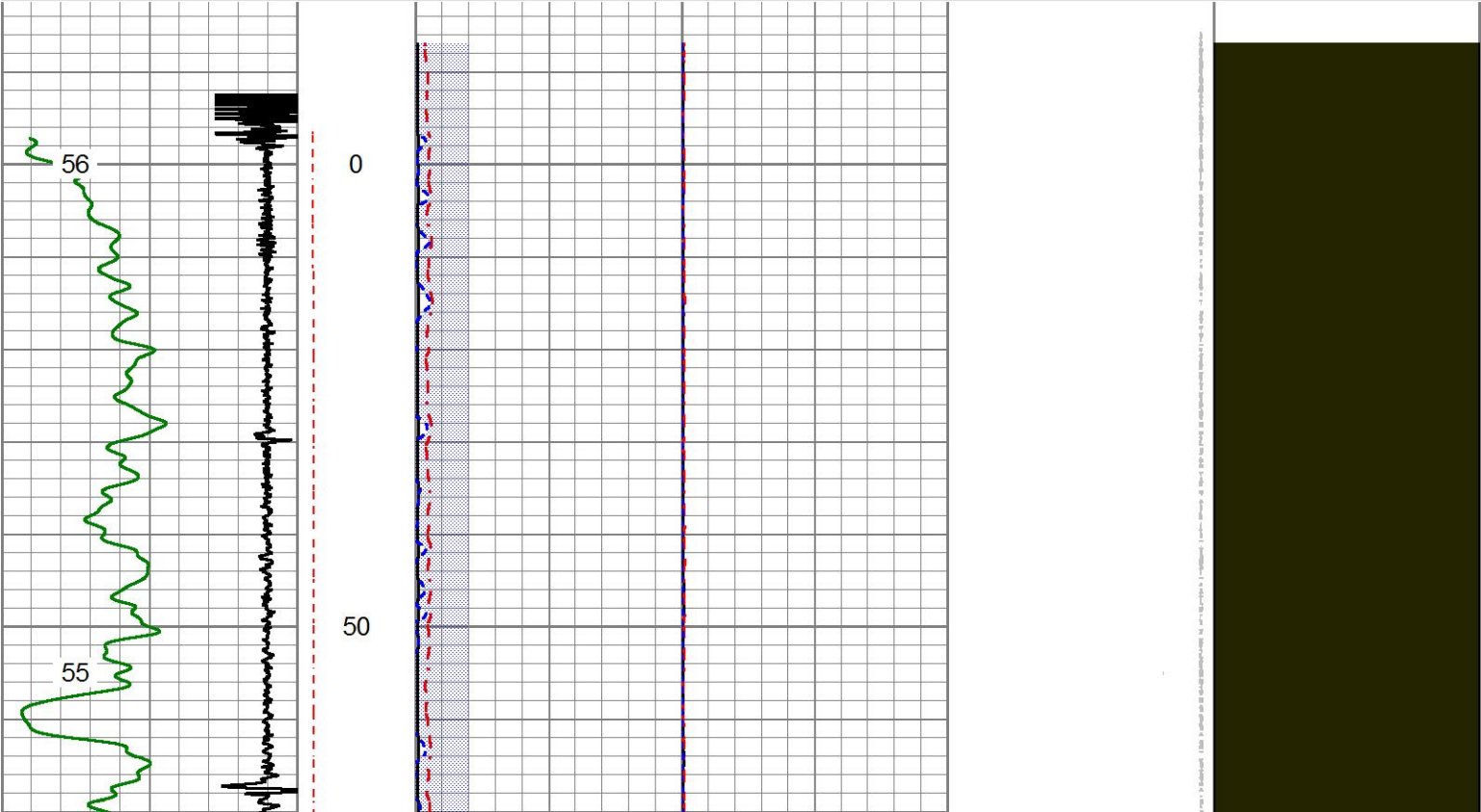
BHTEMP_Src TEMP	PPT usec 0	CASEWGHT lb/ft 26	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08	SRFTEMP degF 0	CASETHCK in 0
CASEOD in 7	PERFS 0	TDEPTH ft 0	BOTTEMP degF 100	BOREID in 7.875			

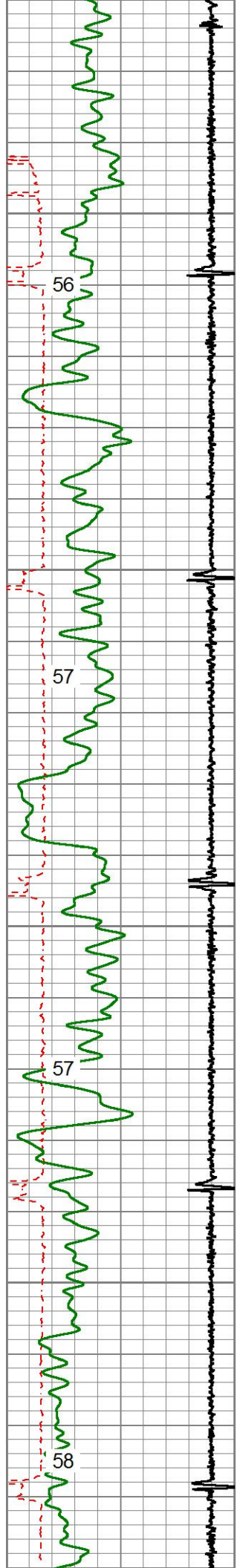


MAIN PASS

Database File champlin 86.db
Dataset Pathname pass9
Presentation Format pinr_scbl
Dataset Creation Tue Apr 11 17:25:32 2017
Charted by Depth in Feet scaled 1:240

3' Travel Time			Line Tension	3' Amplitude		Sector Amplitude Average	200	VDL	1200	1	Sector Map	8		
		0		(mV)	100									
300	(usec)	200		3' Amplified Amplitude X 5									0	150
-9 Collar Locator 1				0 (mV) 20									Sector Amplitude Maximum	
Gamma Ray				1 Bond Index 0									0 150	
0 (GAPI) 150					Sector Amplitude Minimum									
Temp (degF)					0 150									



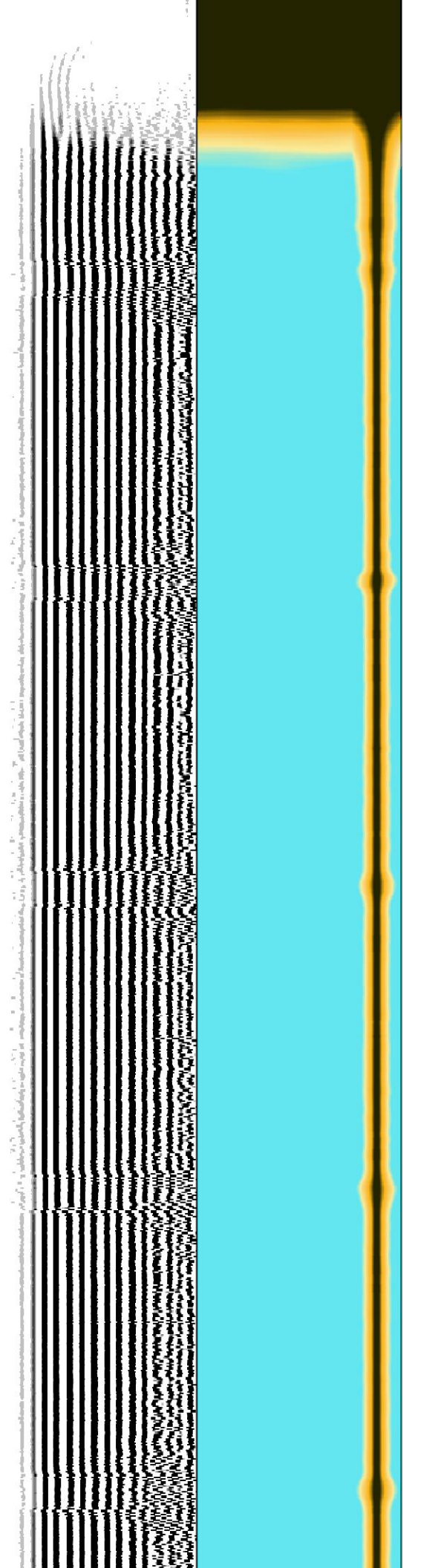
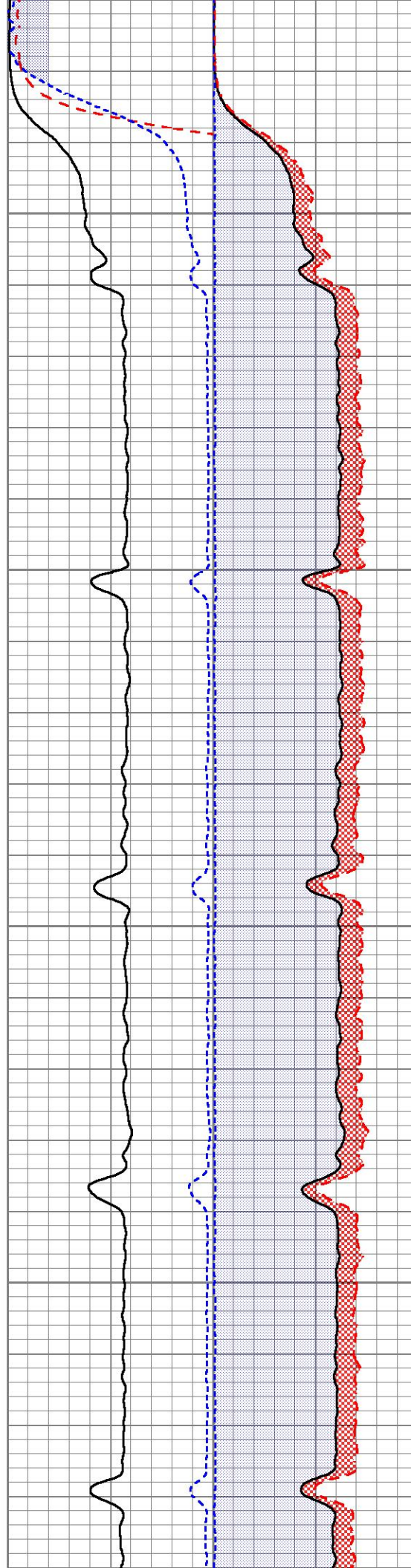


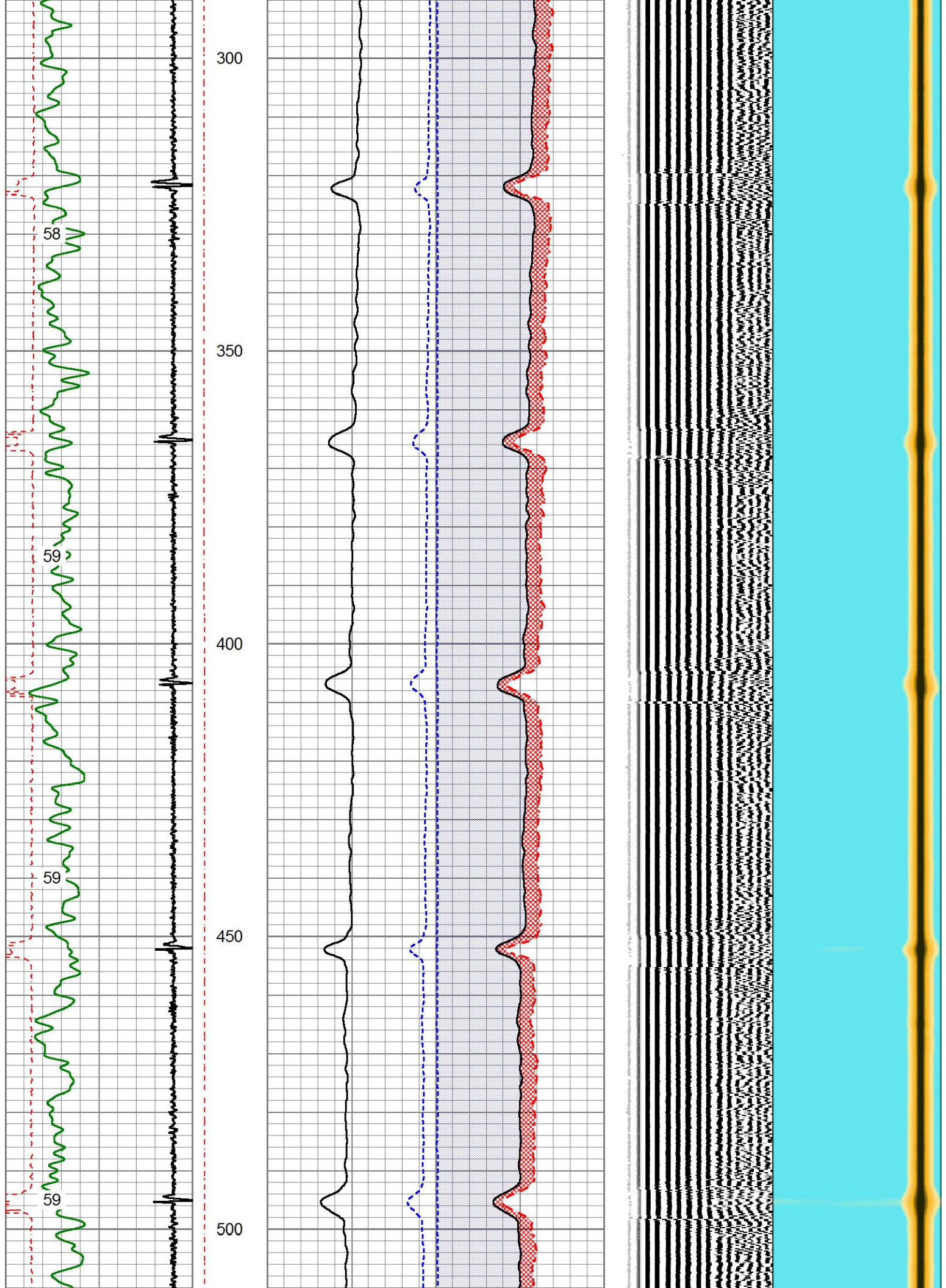
100

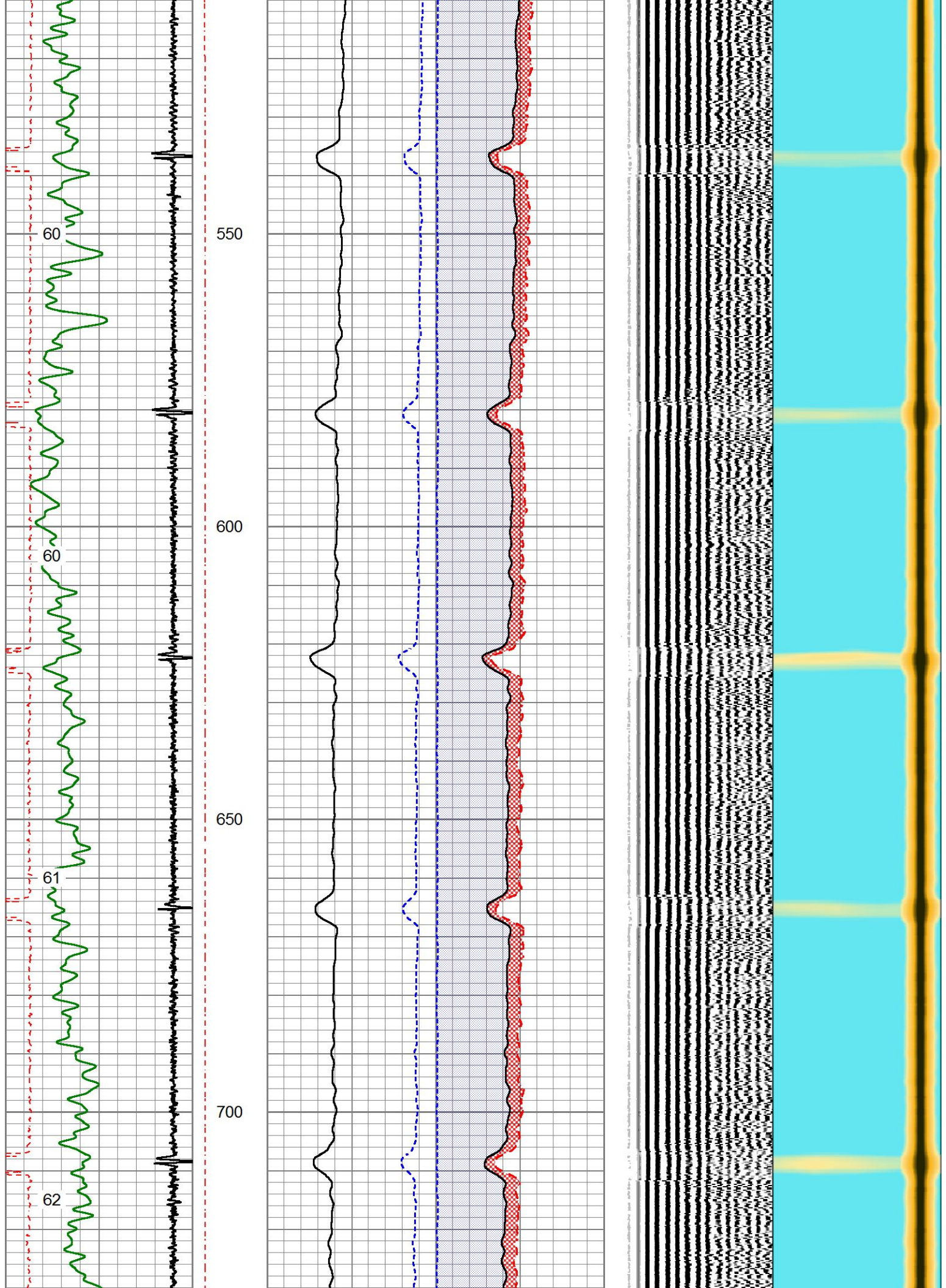
150

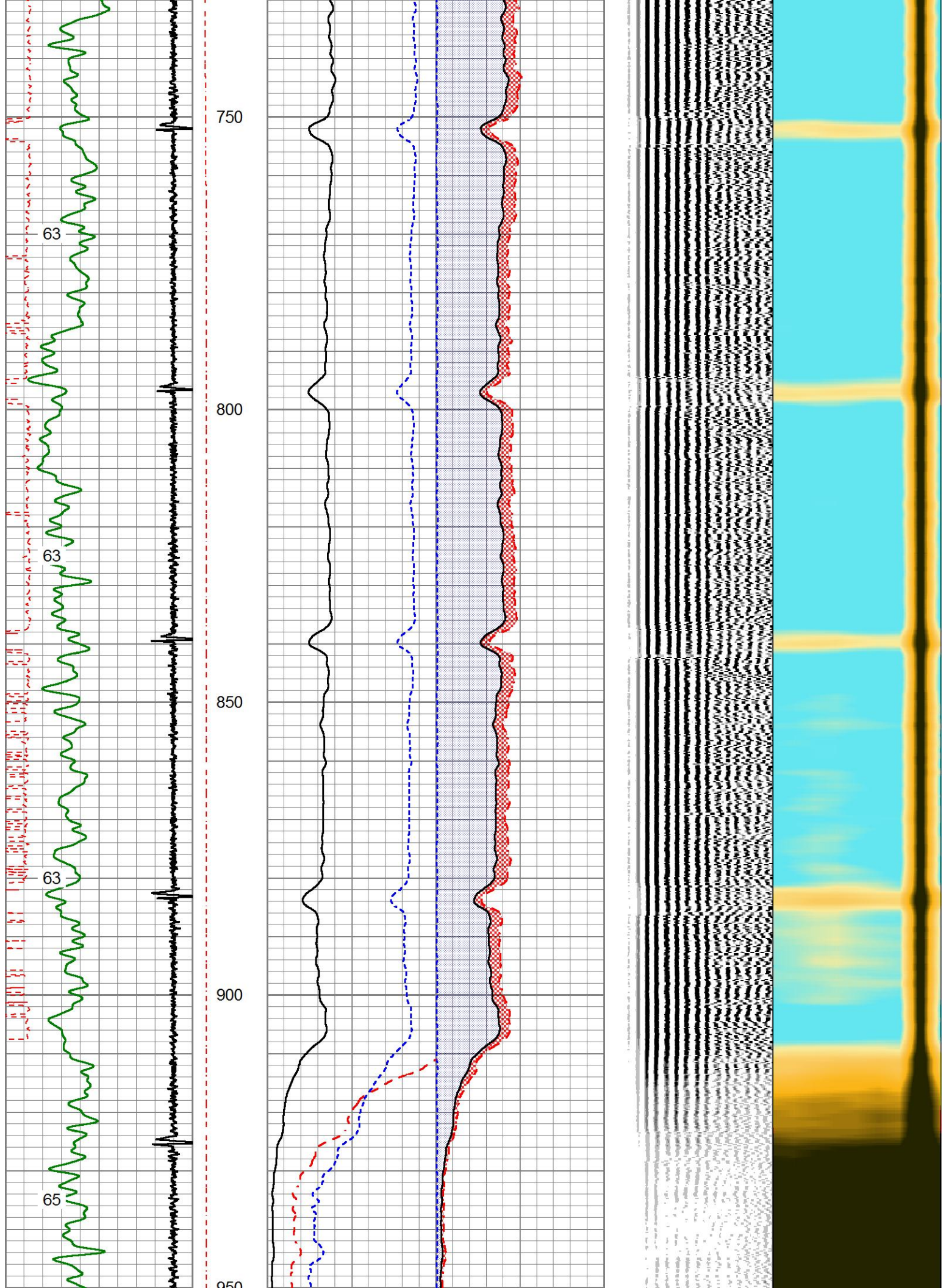
200

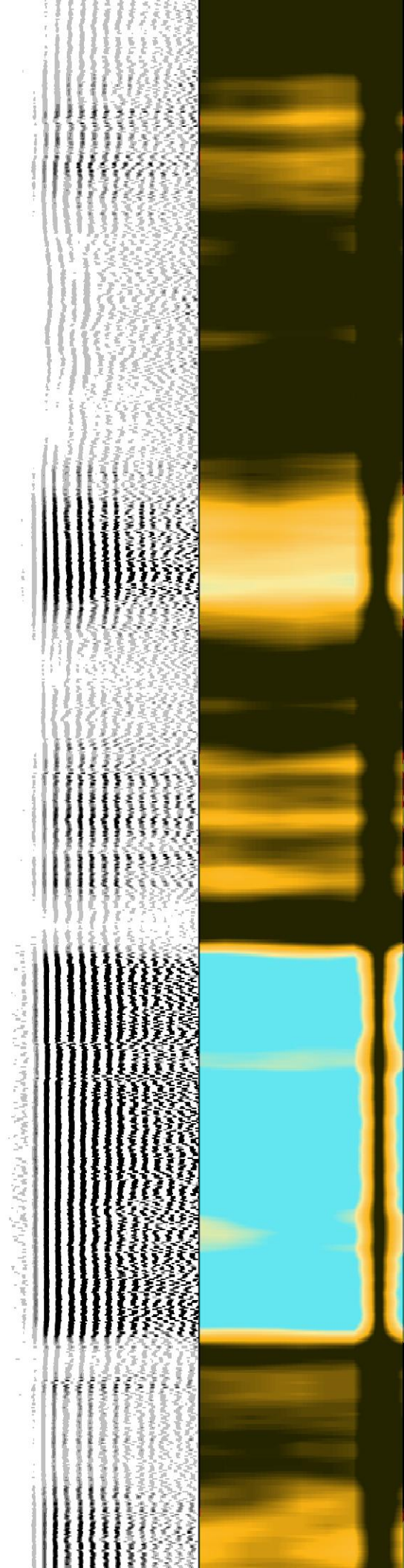
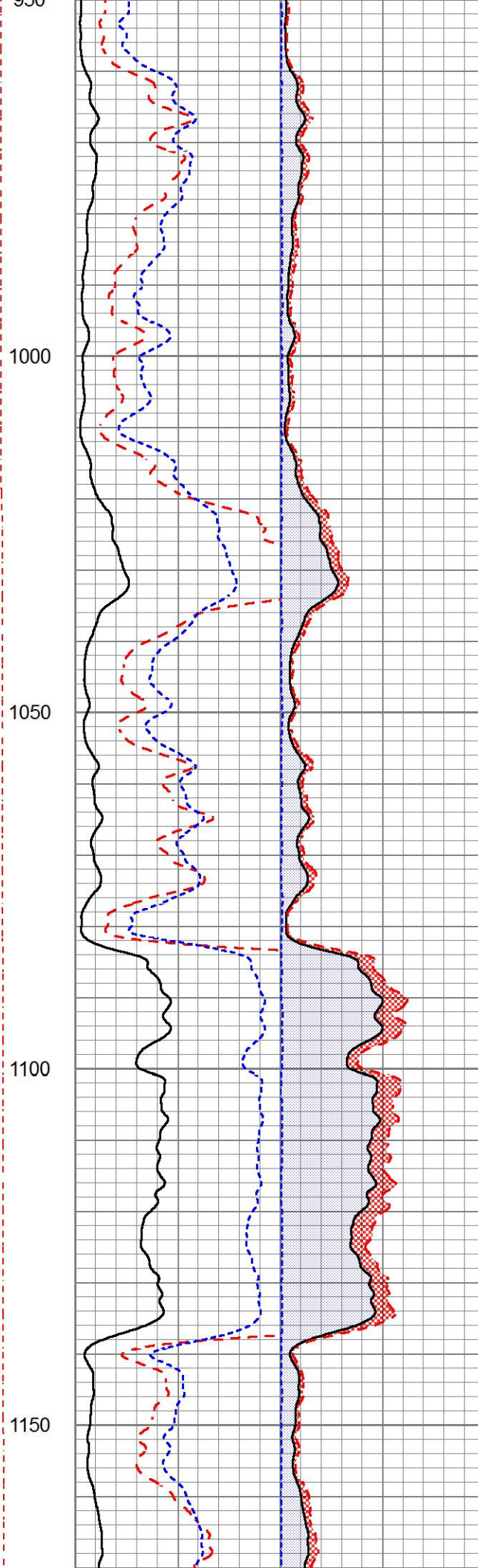
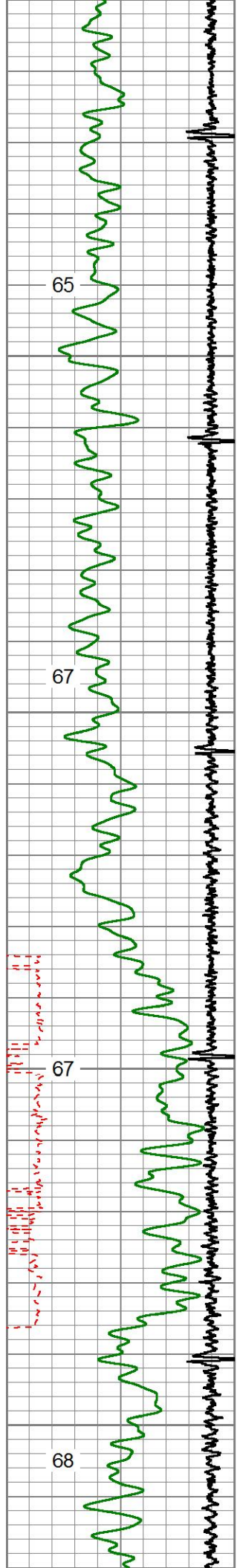
250

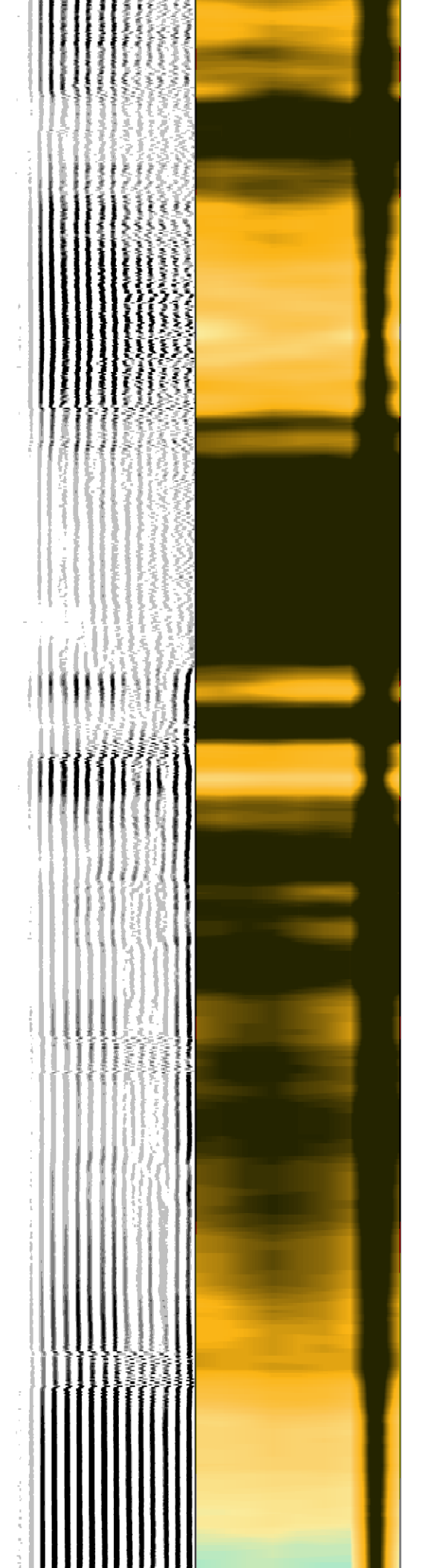
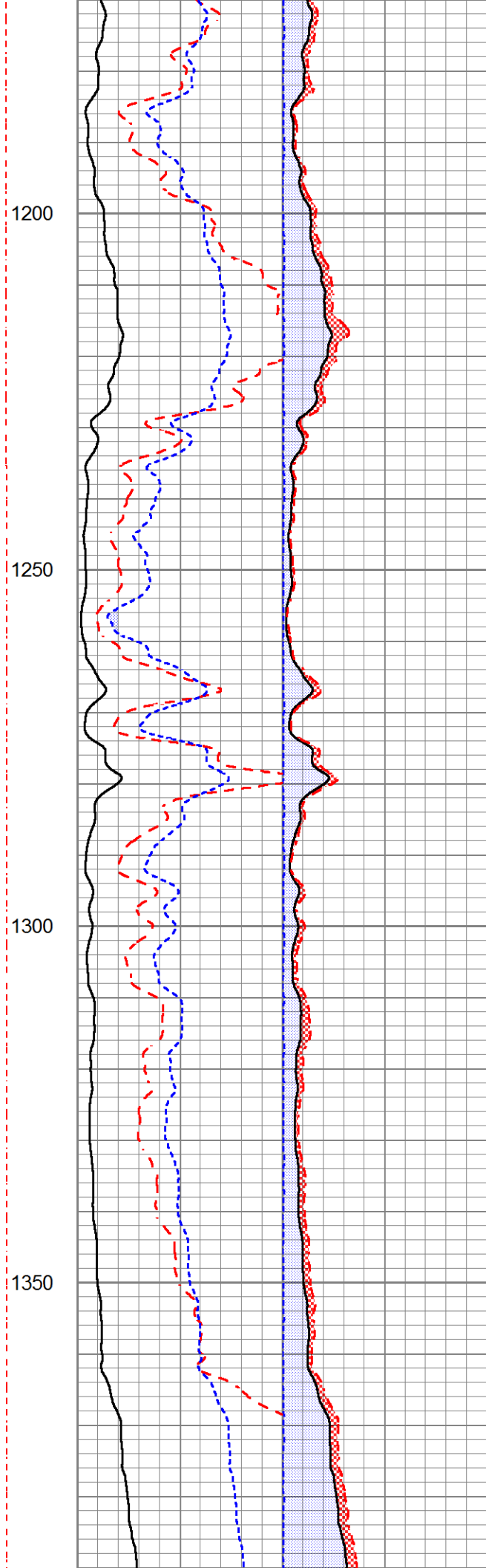
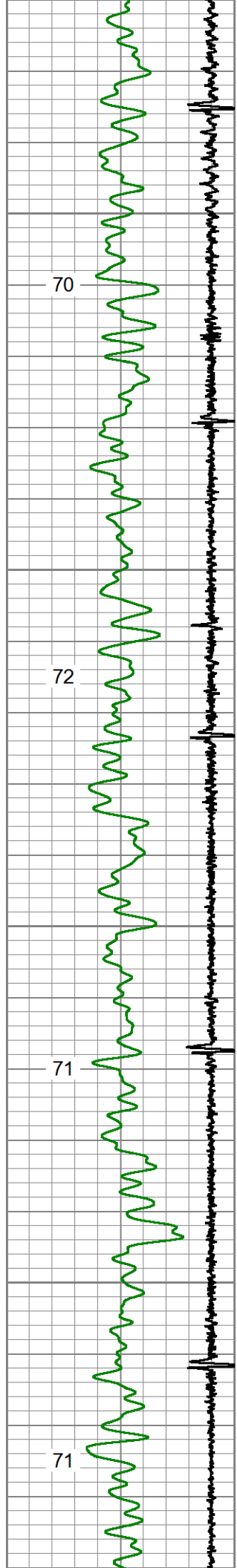


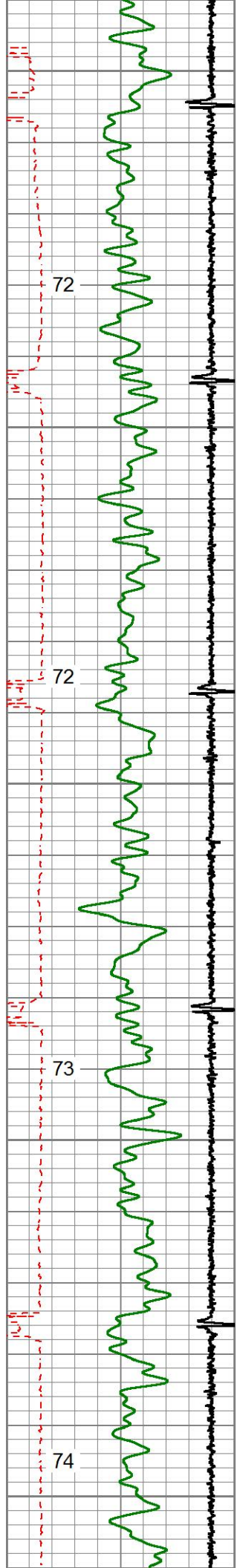












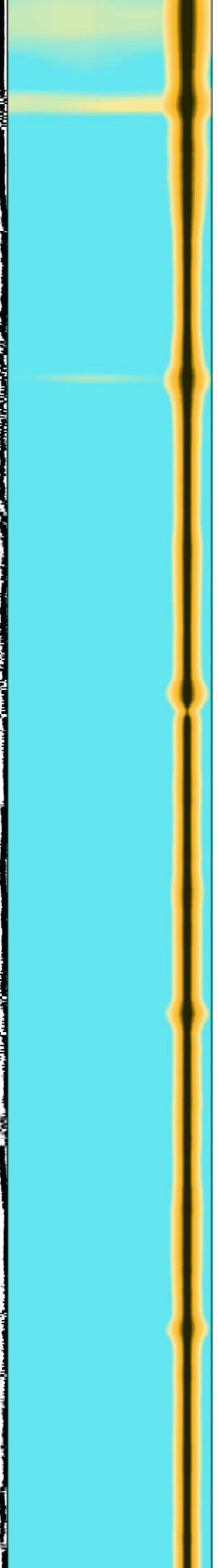
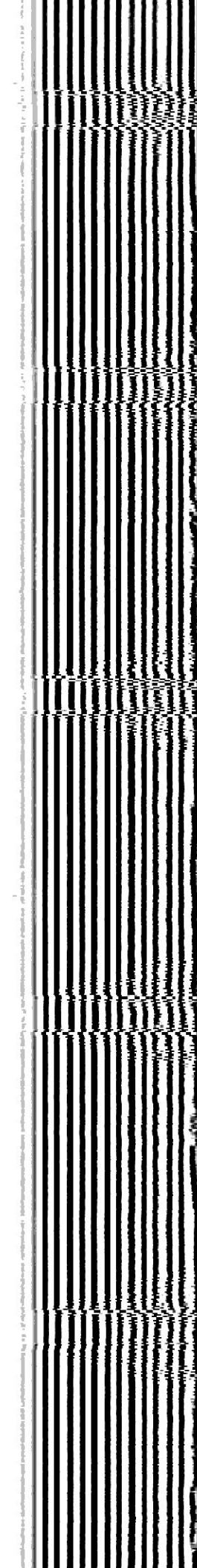
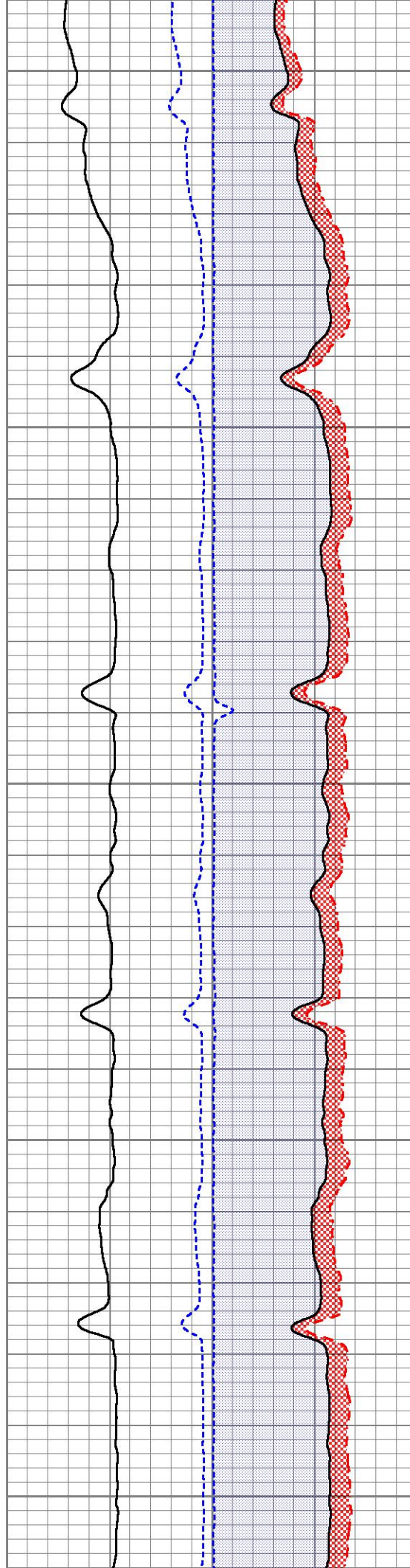
1400

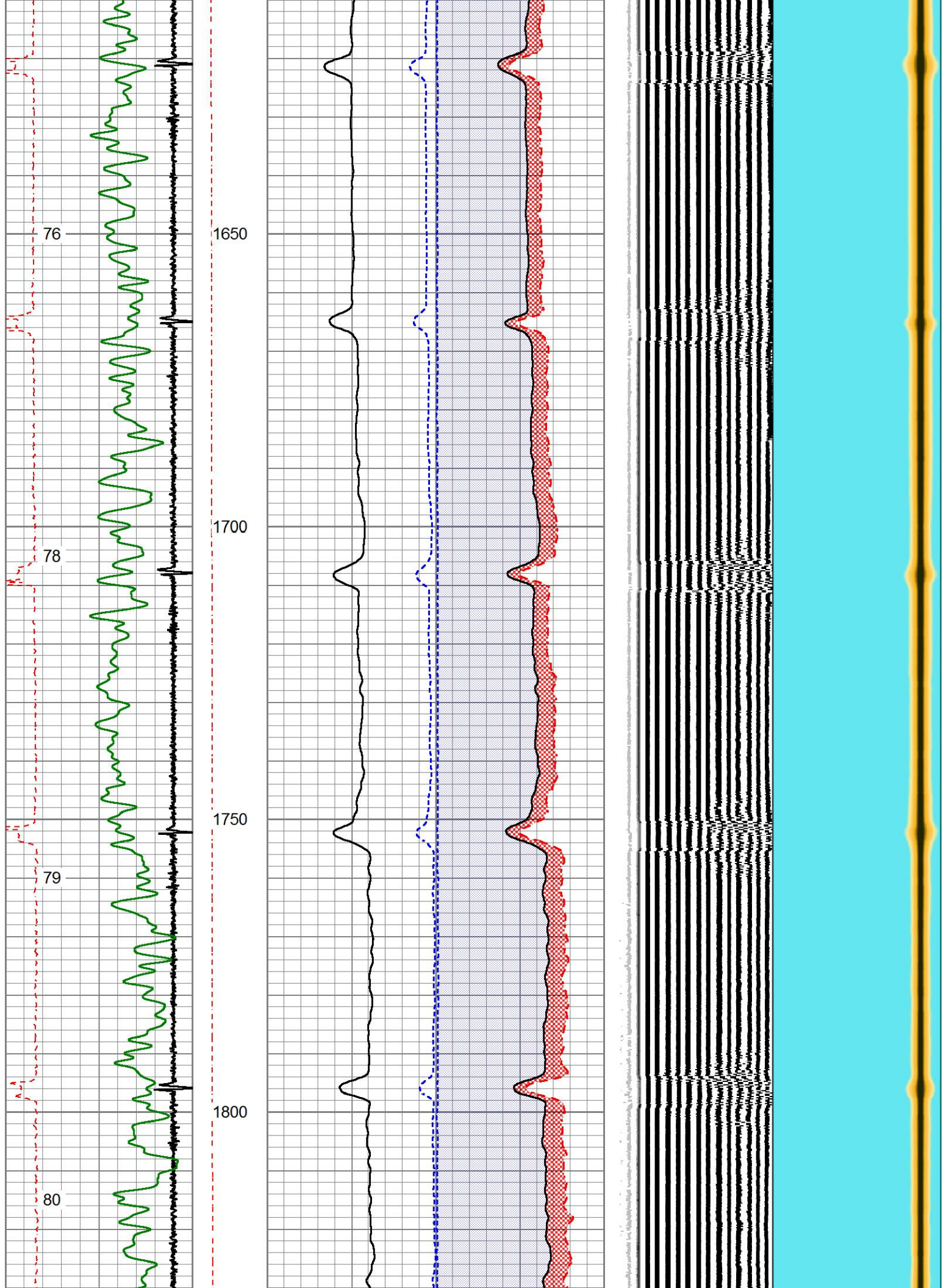
1450

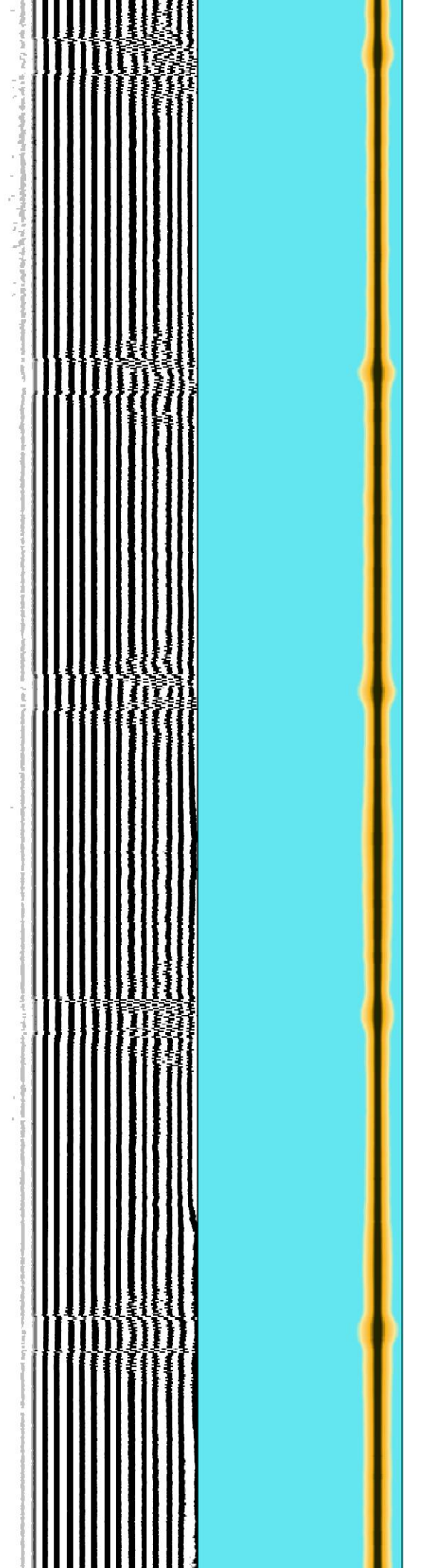
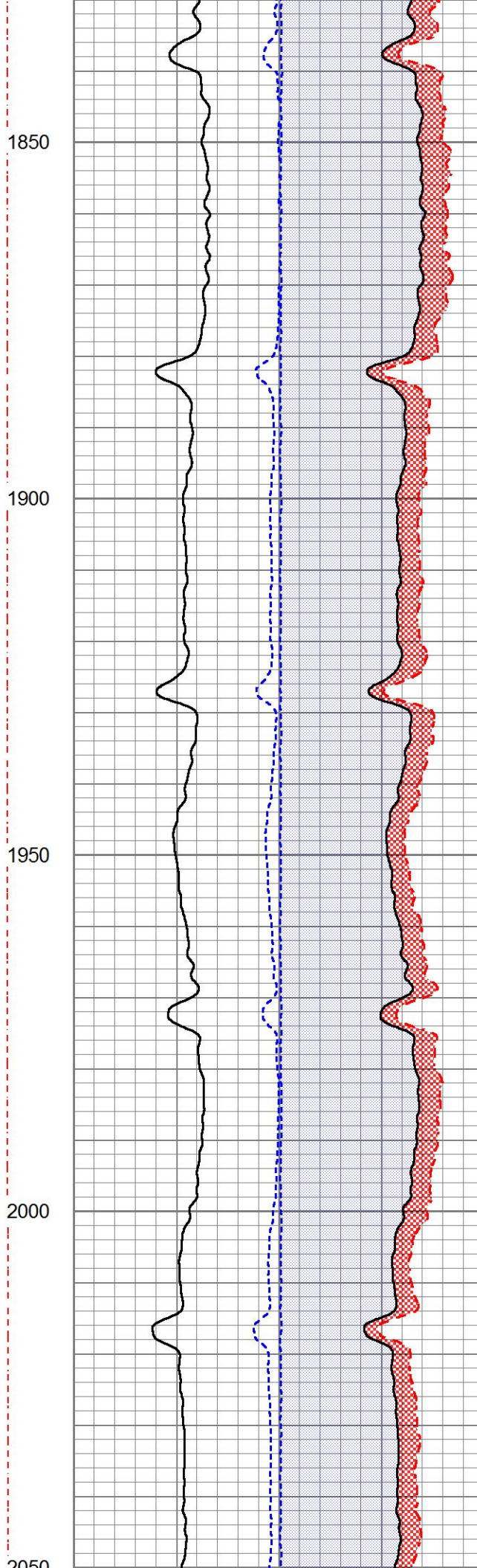
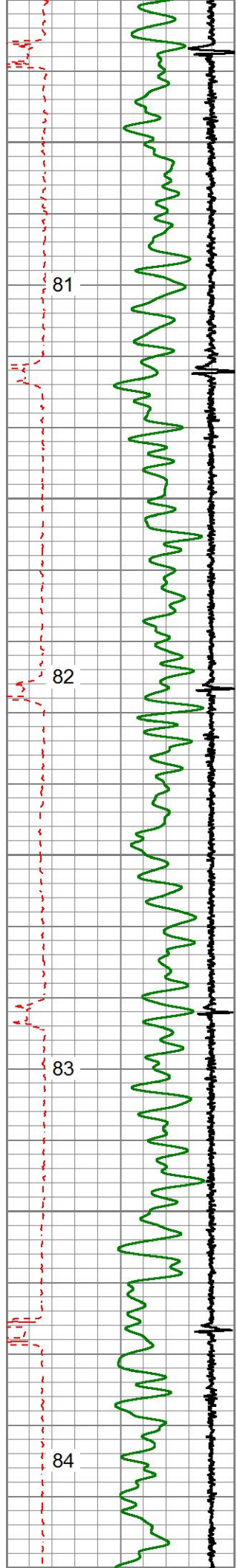
1500

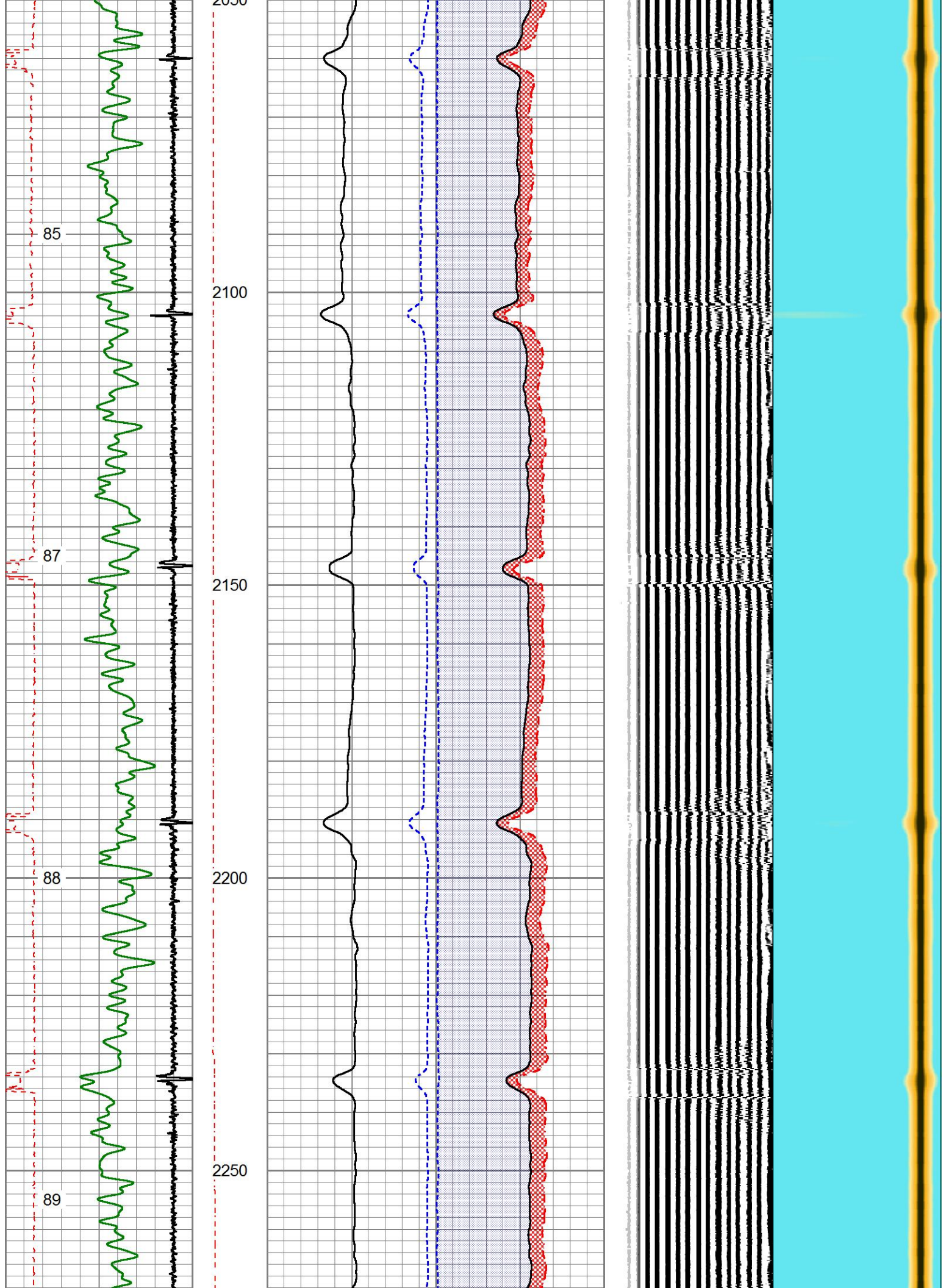
1550

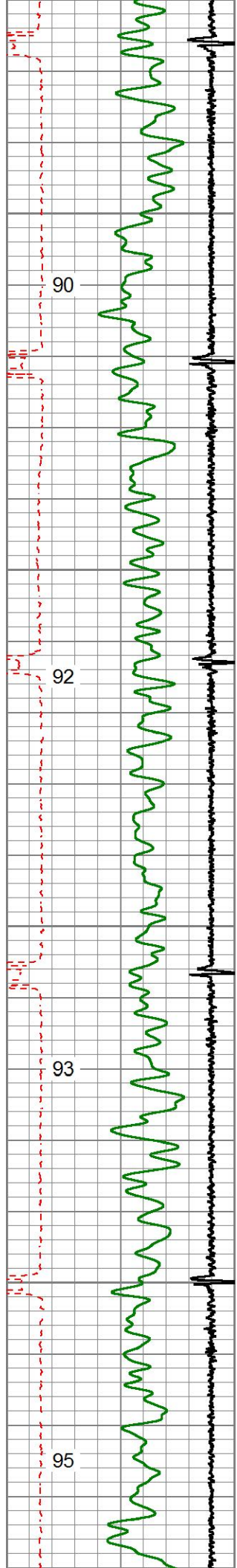
1600









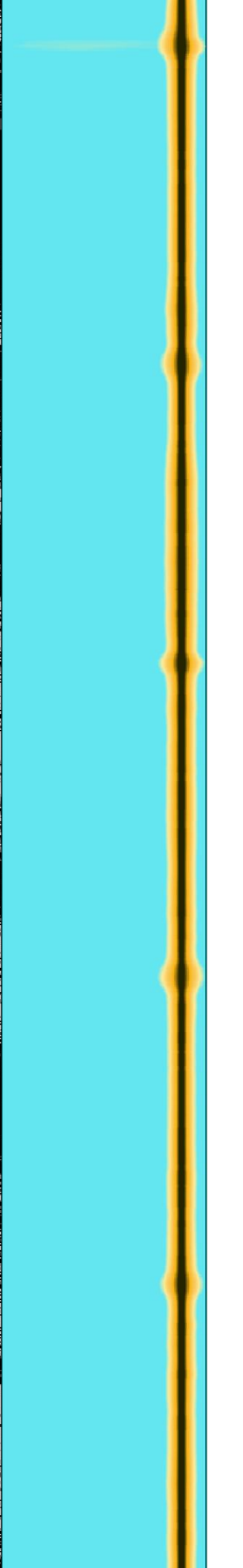
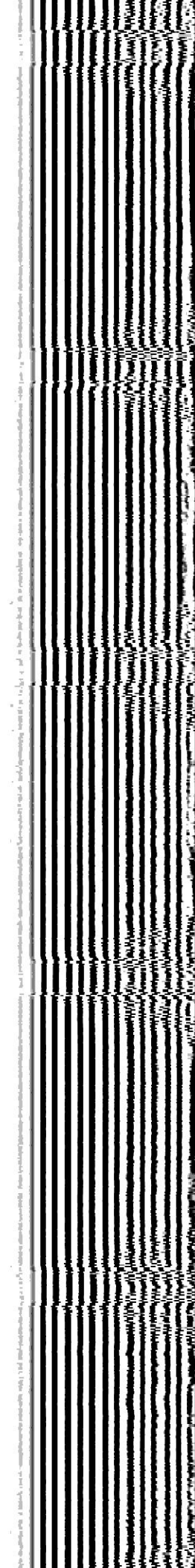
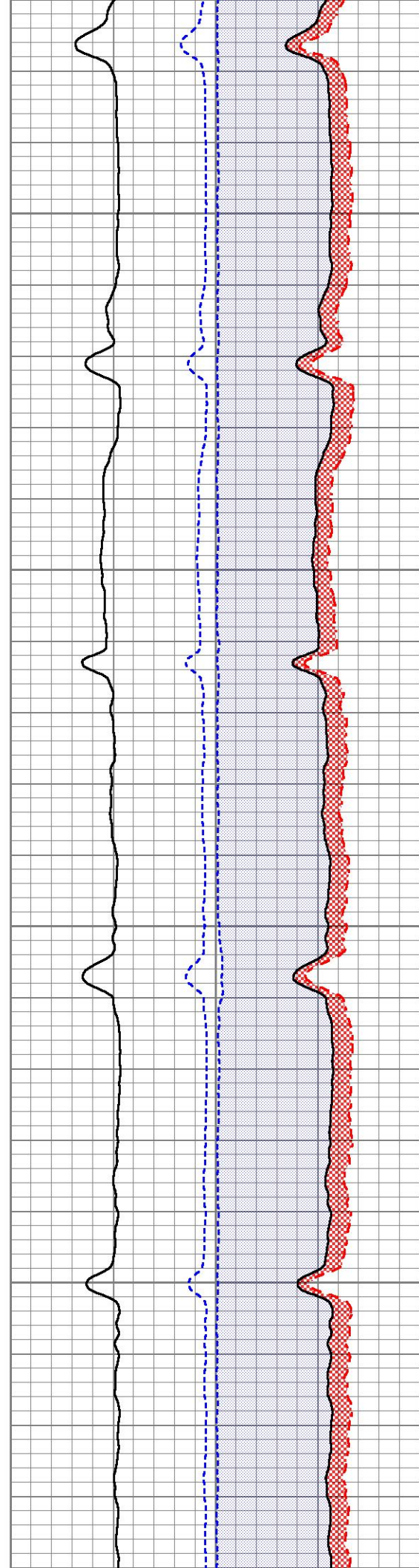


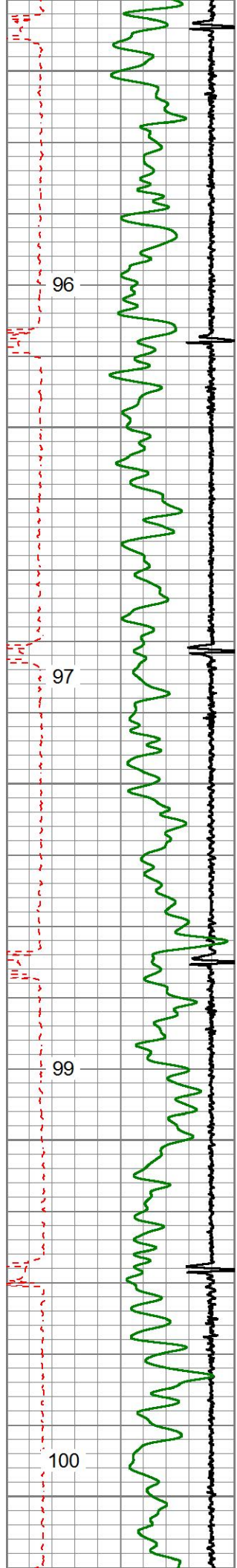
2300

2350

2400

2450





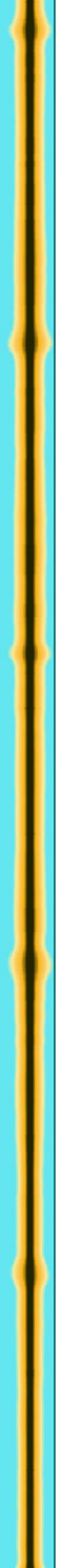
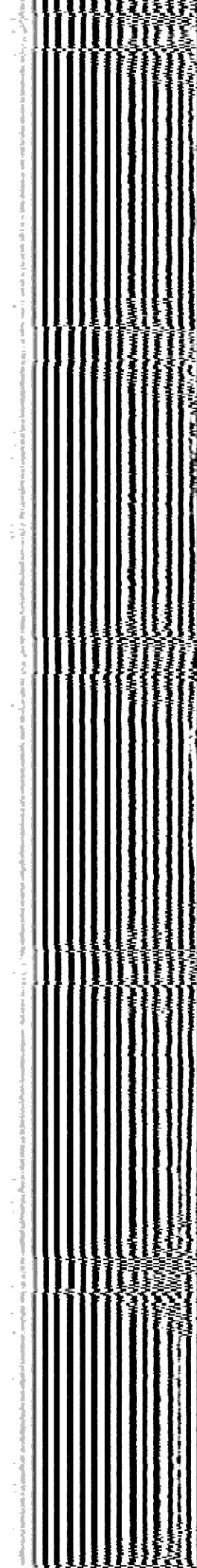
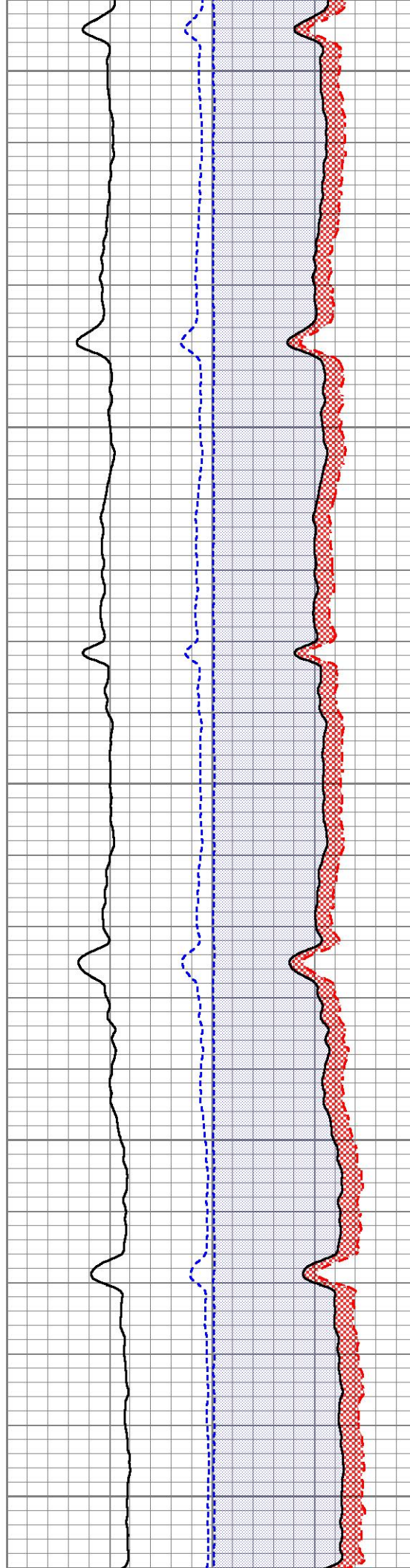
2500

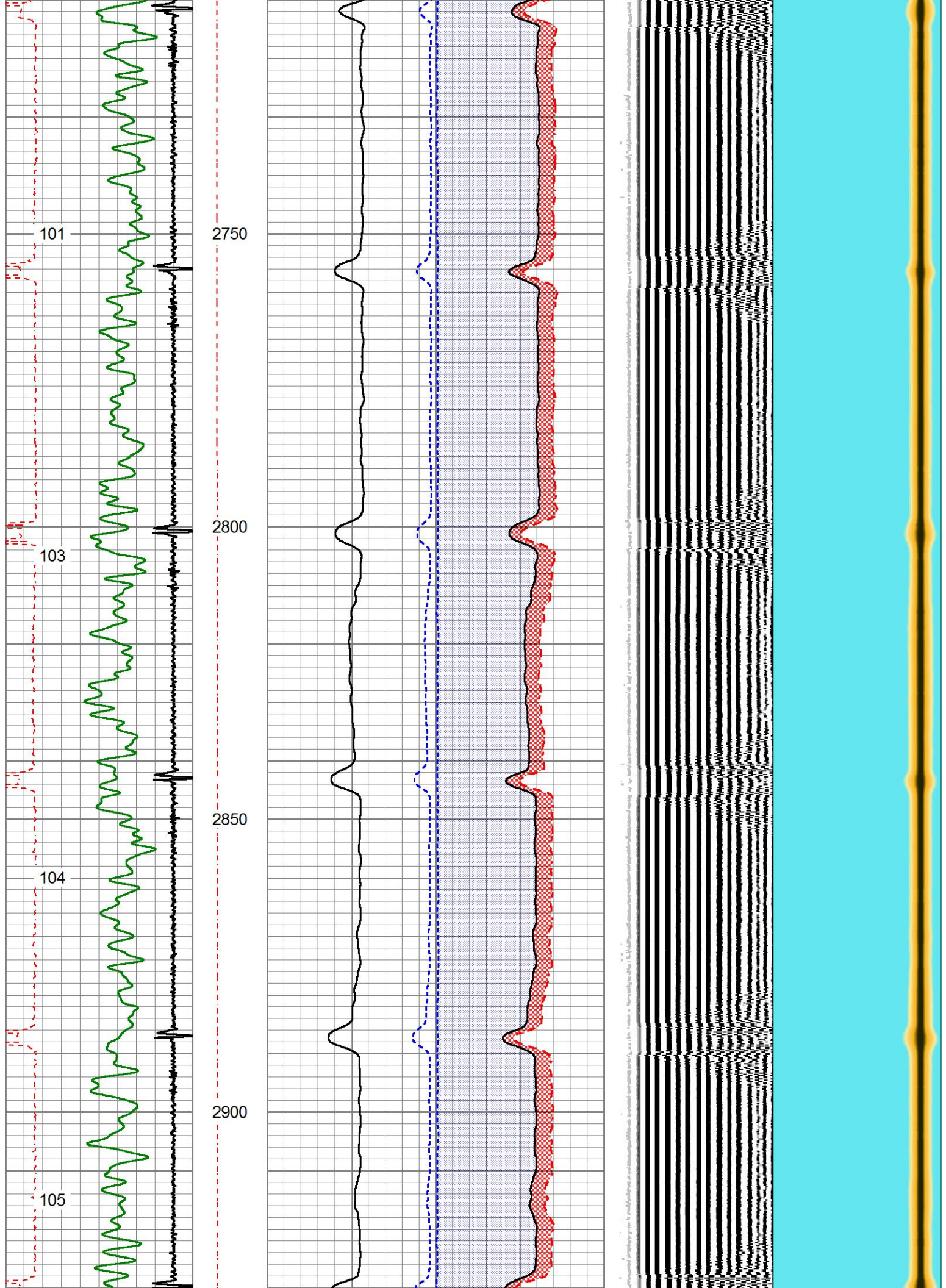
2550

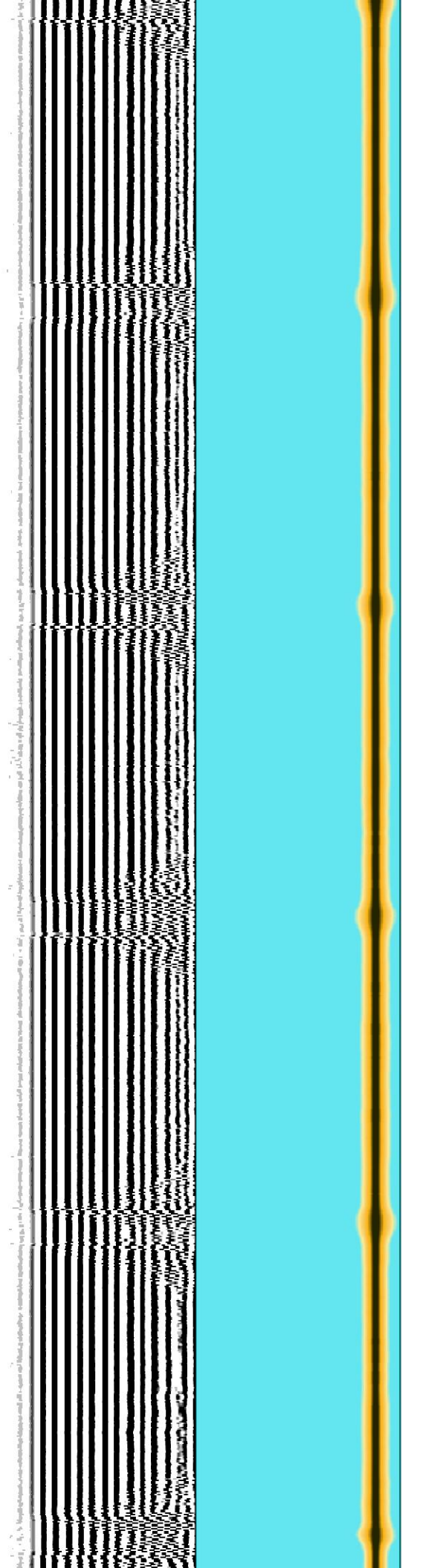
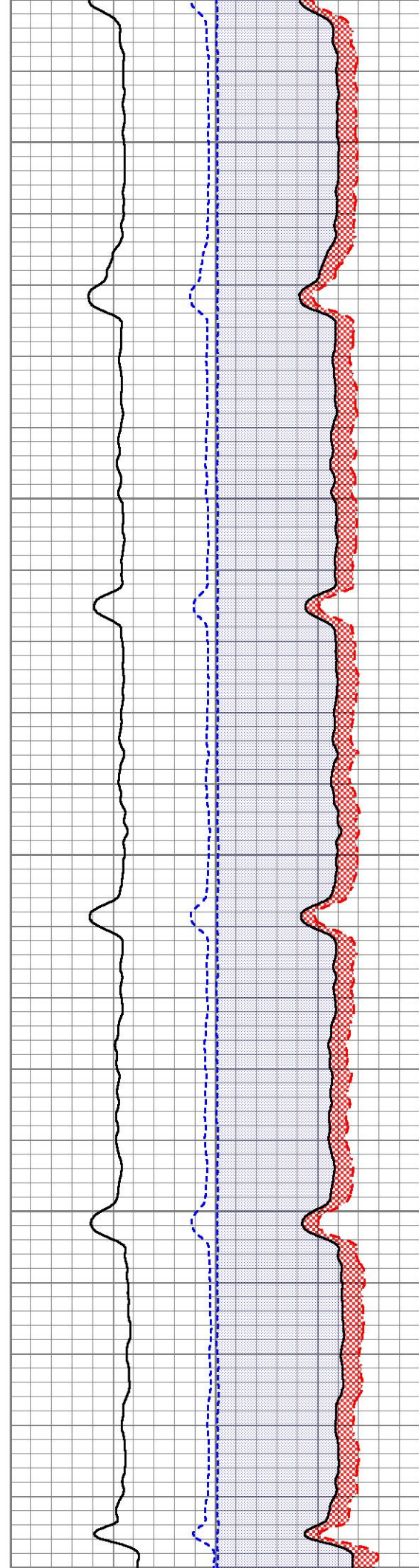
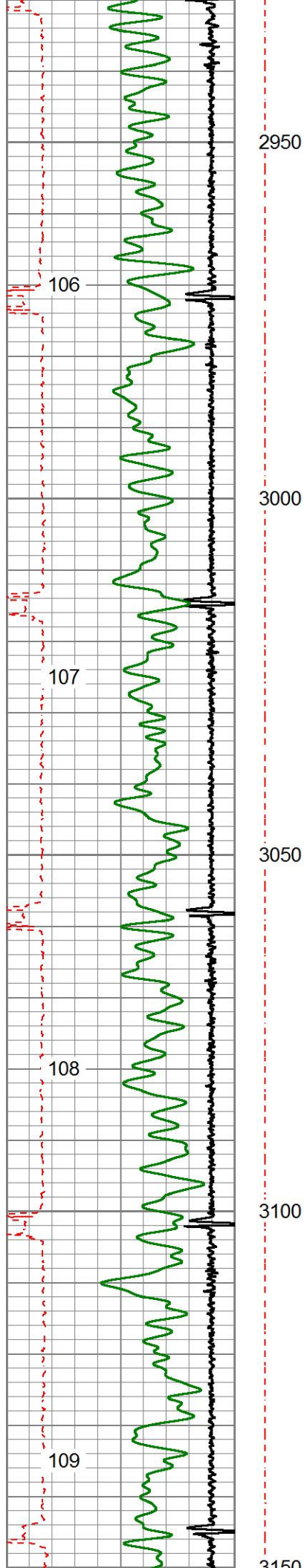
2600

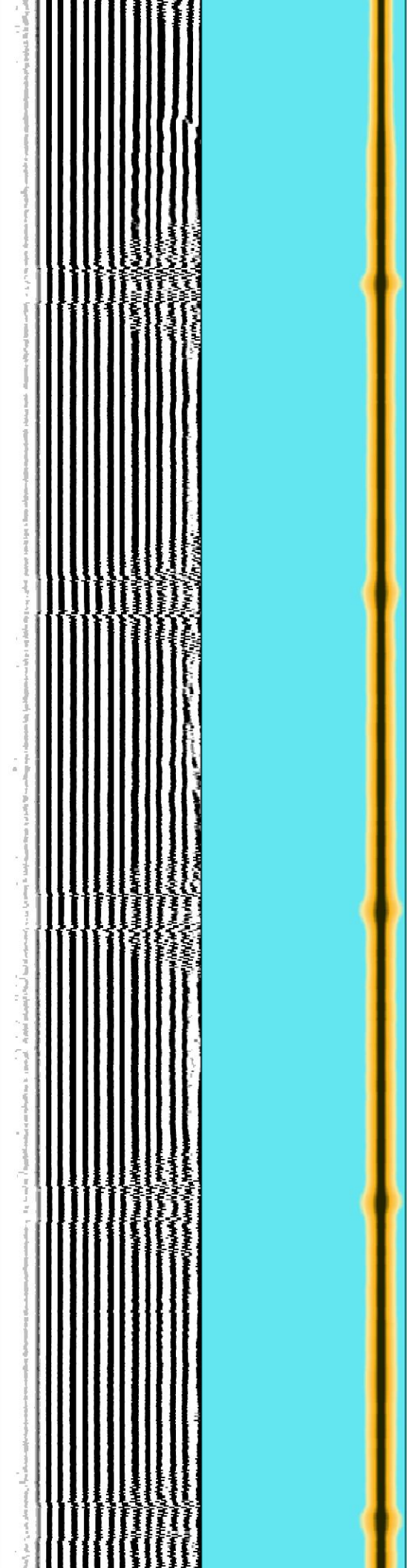
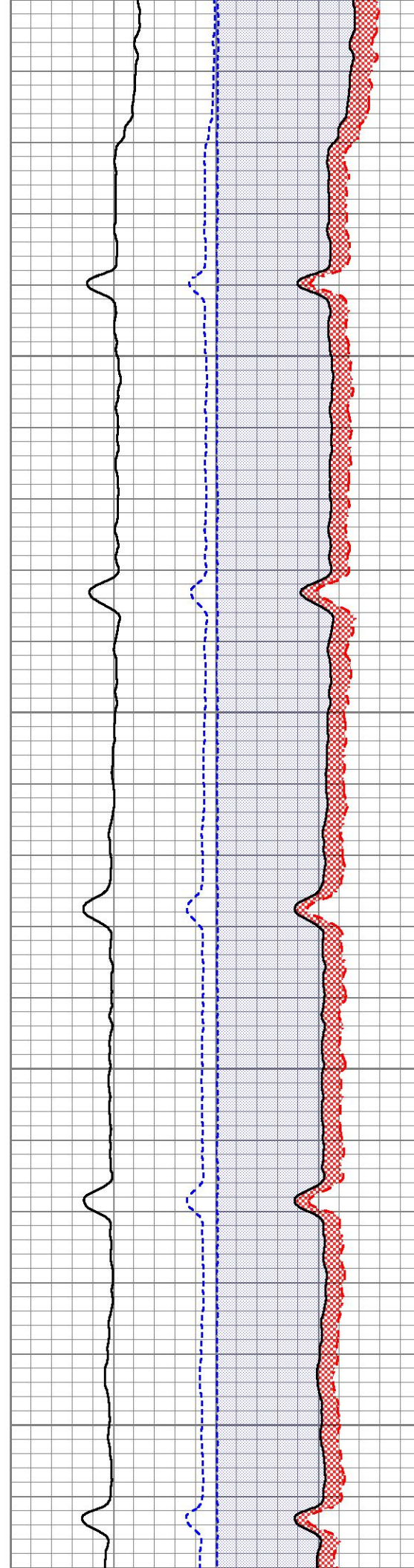
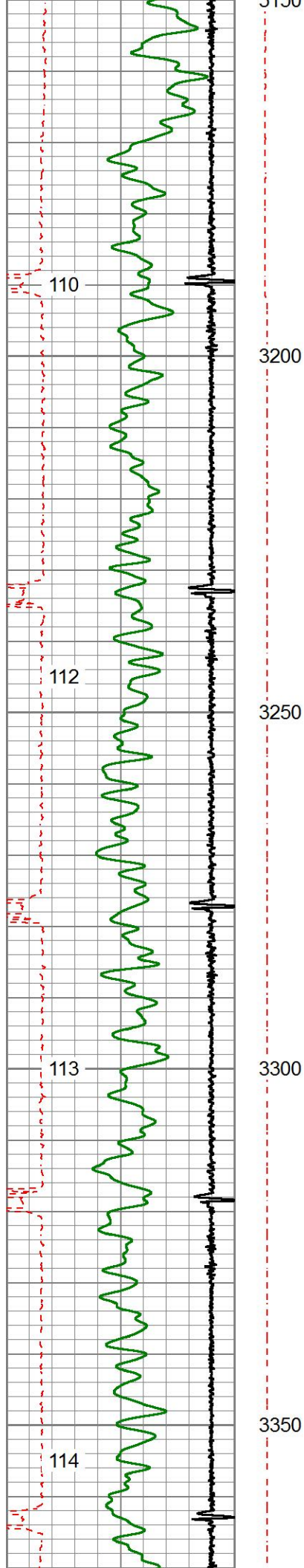
2650

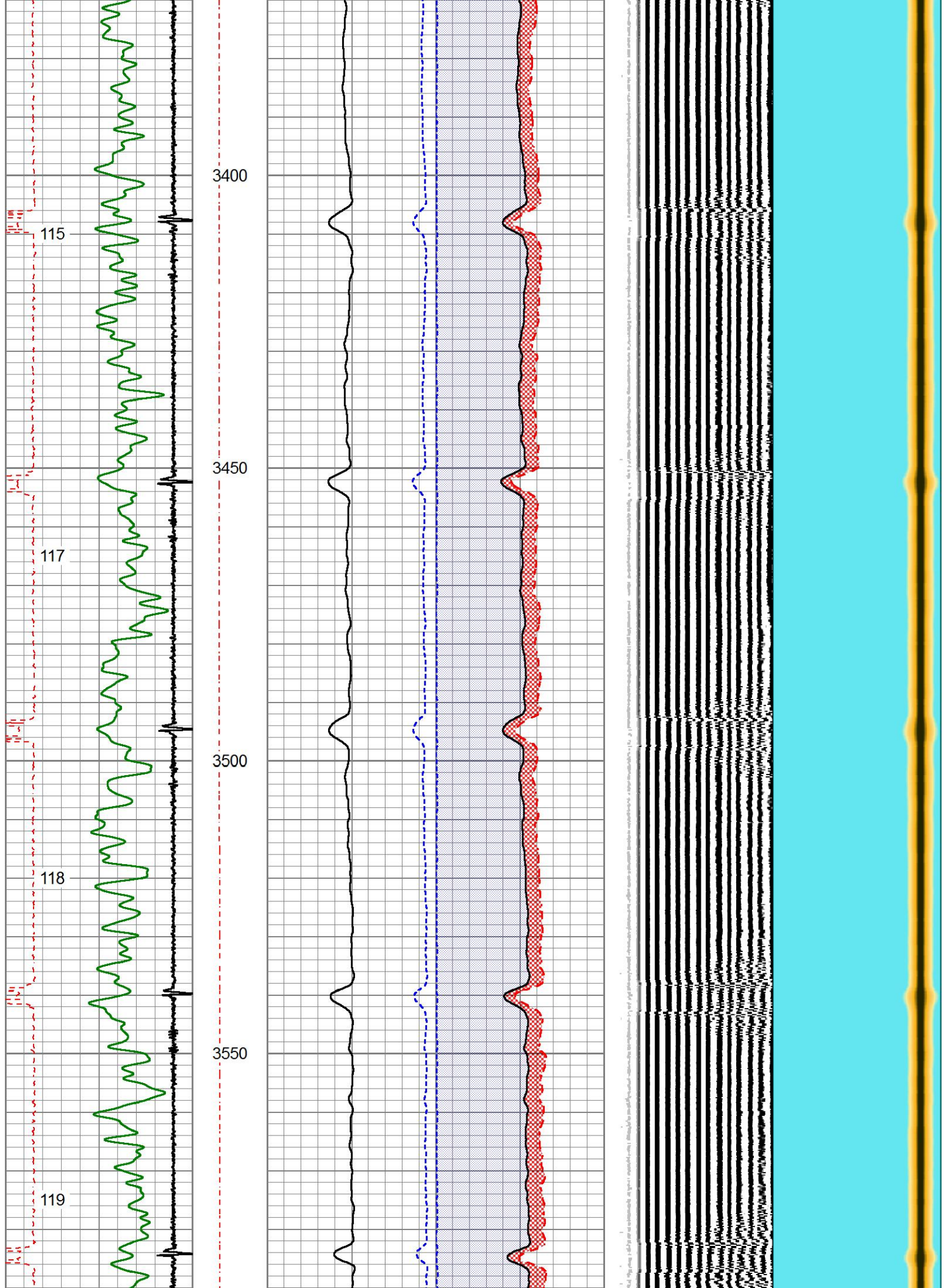
2700

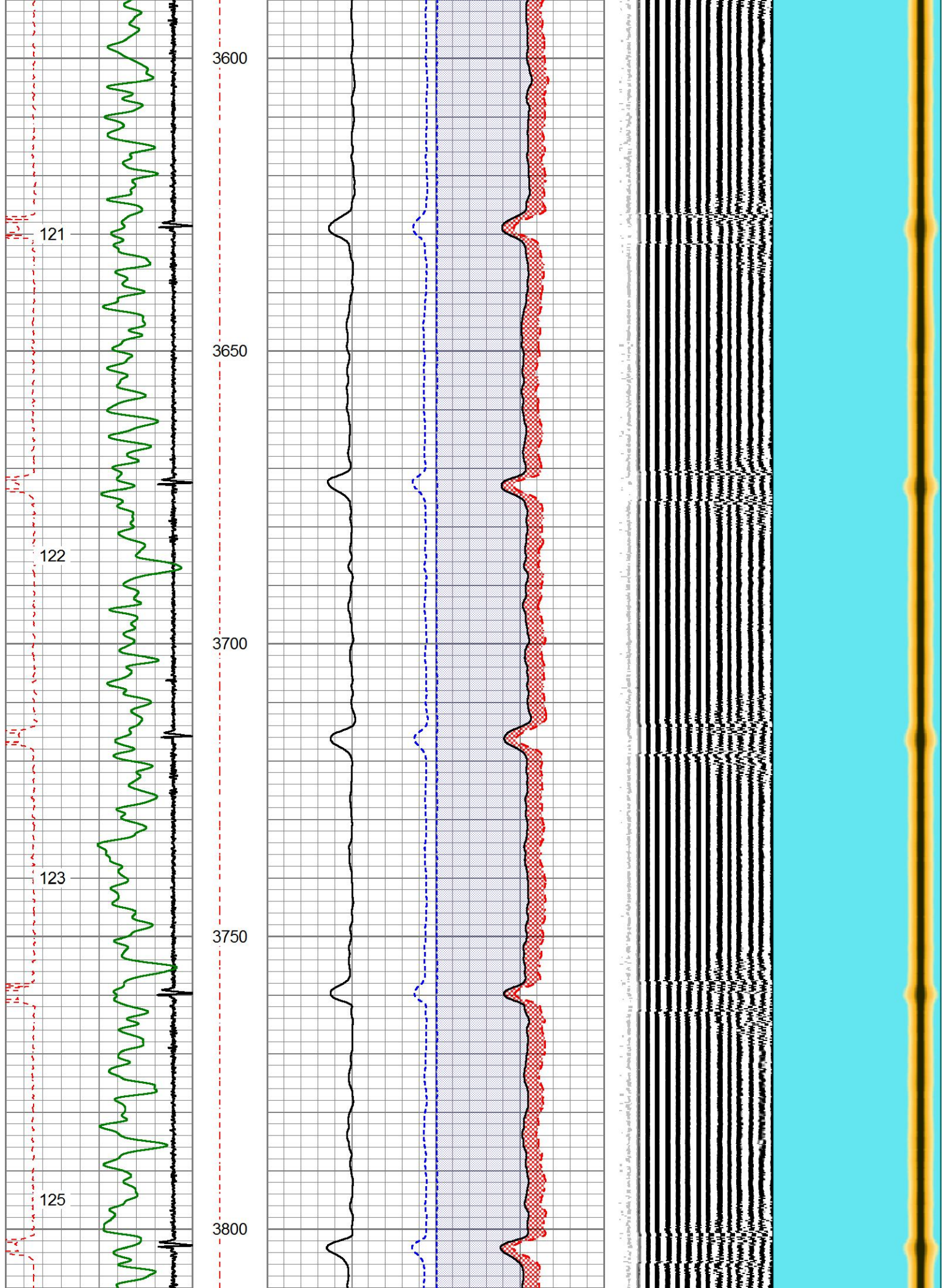


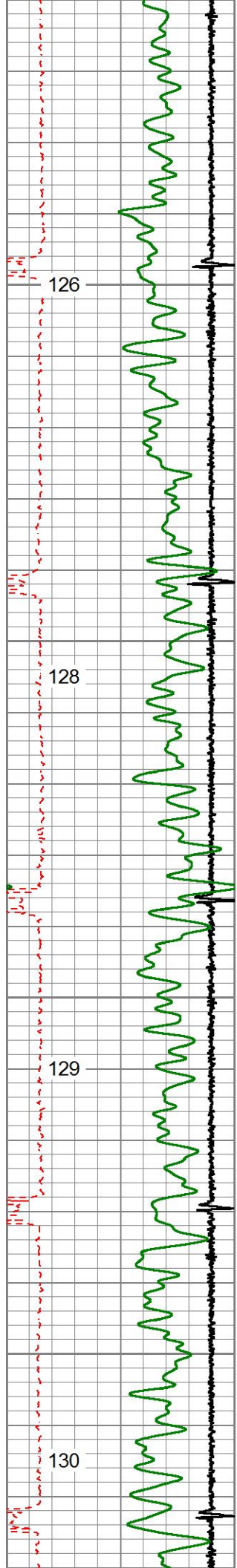










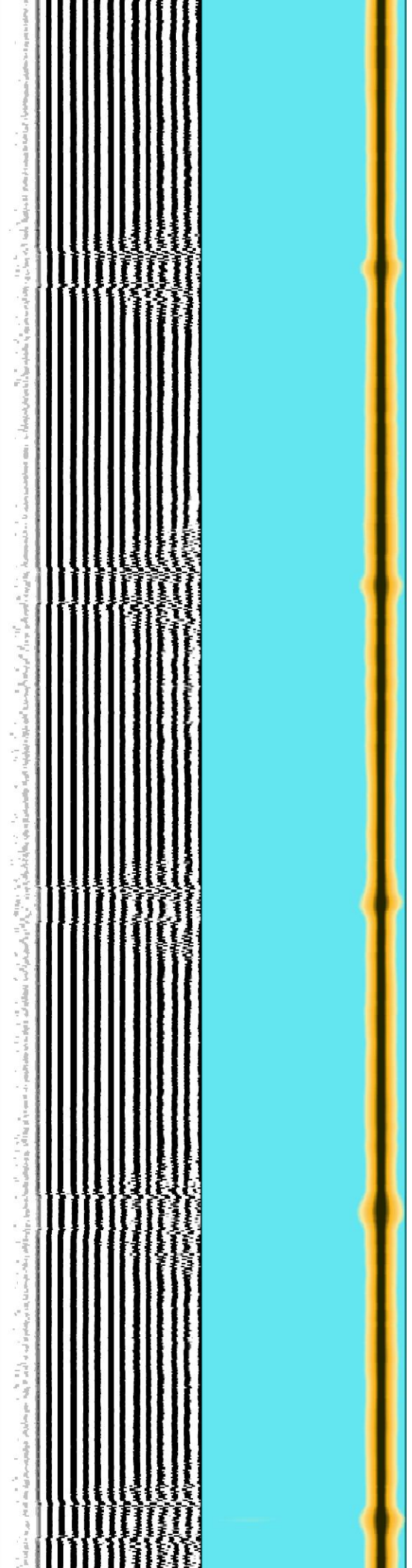
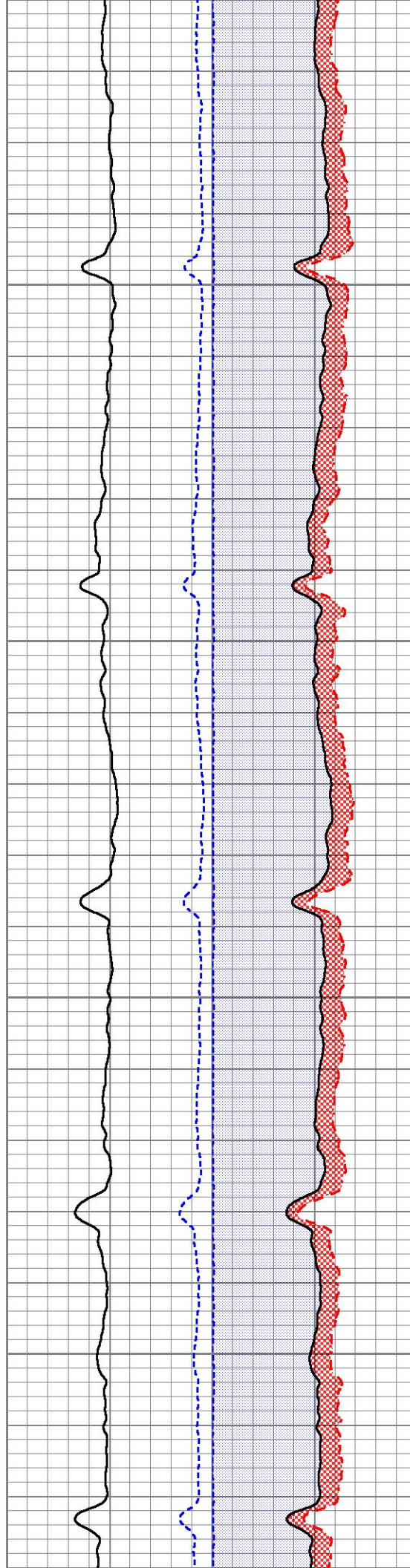


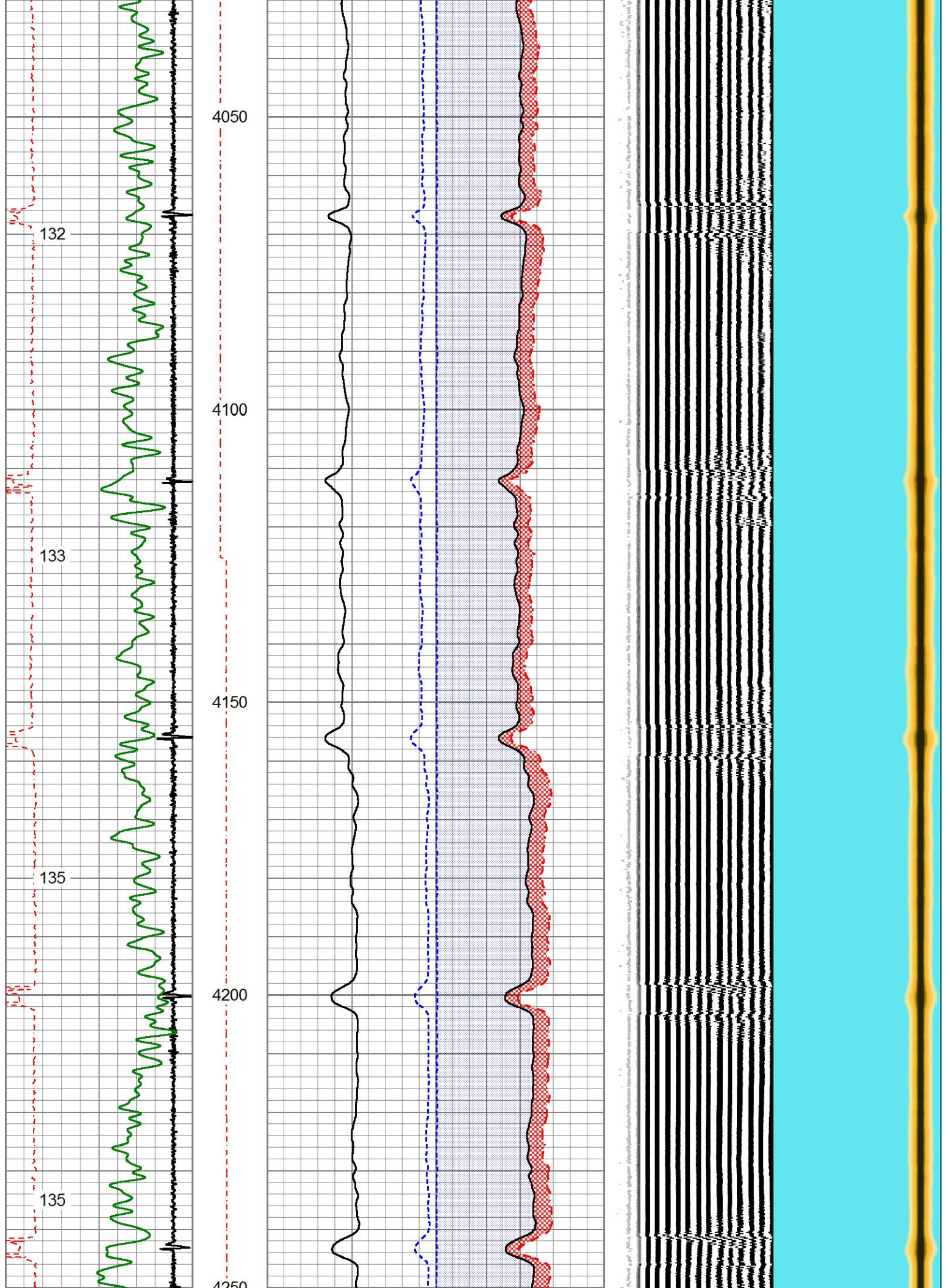
3850

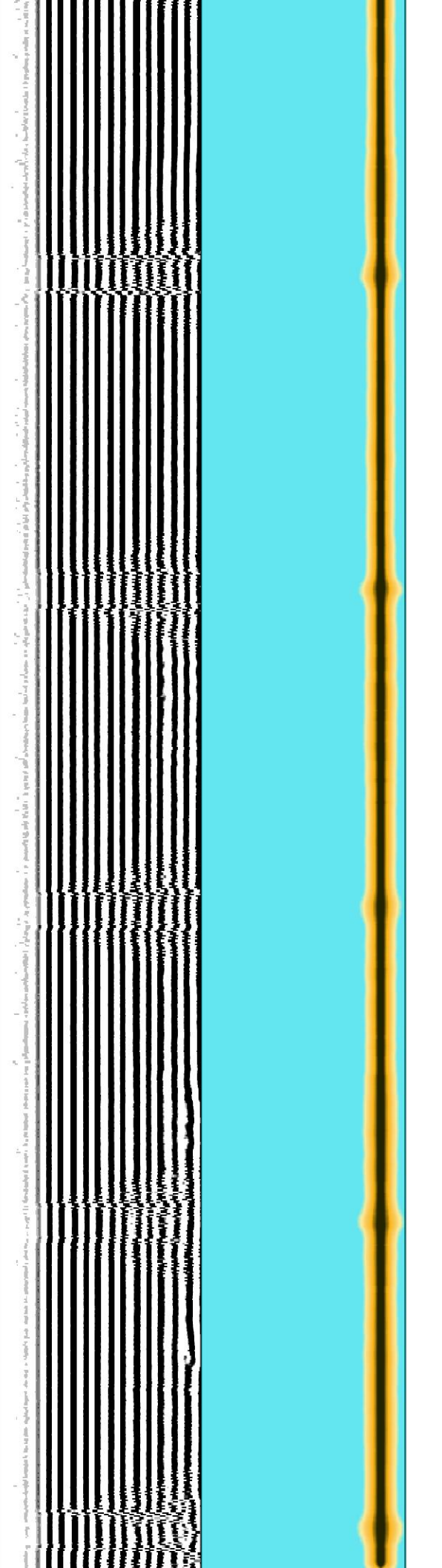
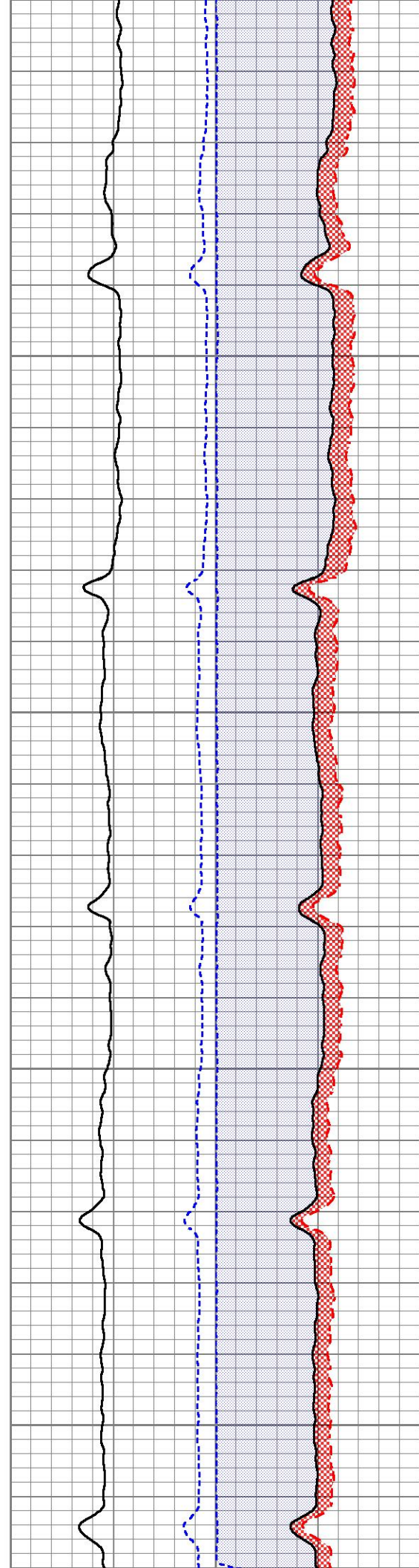
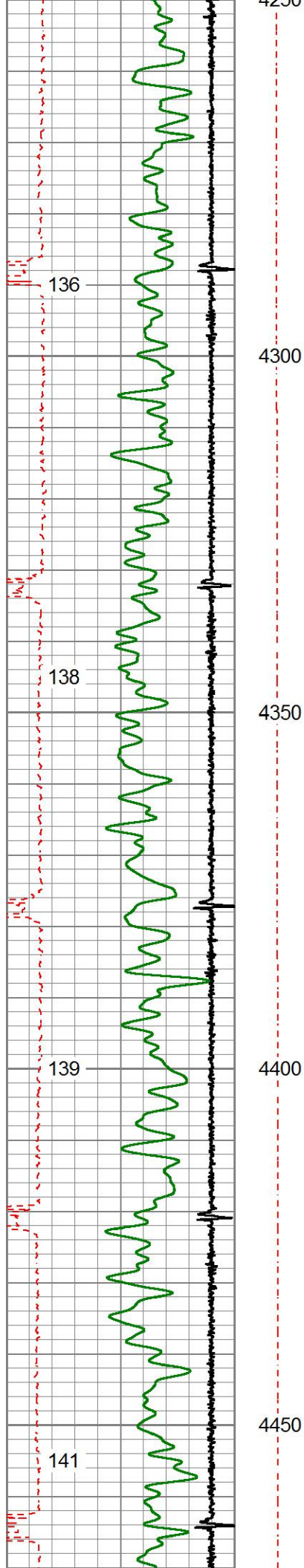
3900

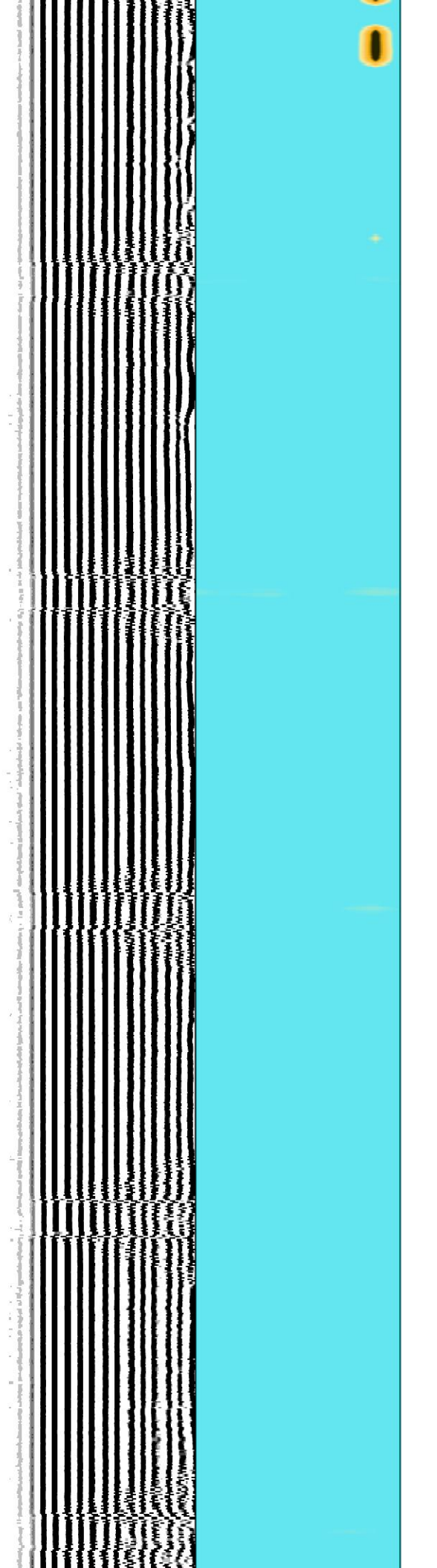
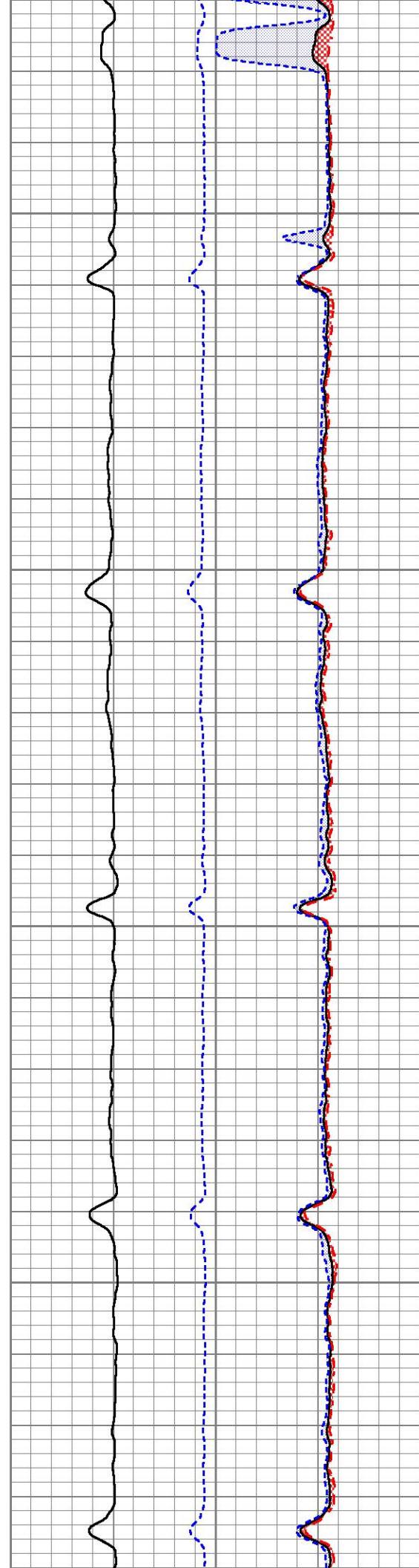
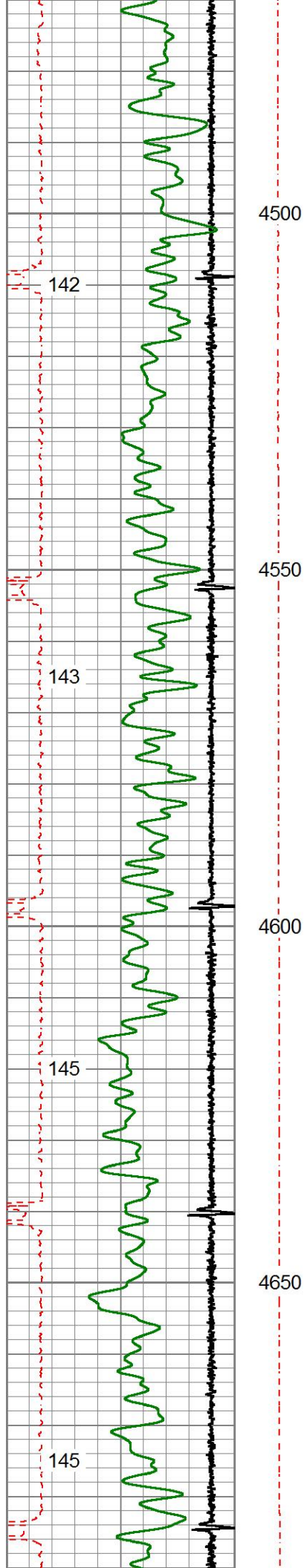
3950

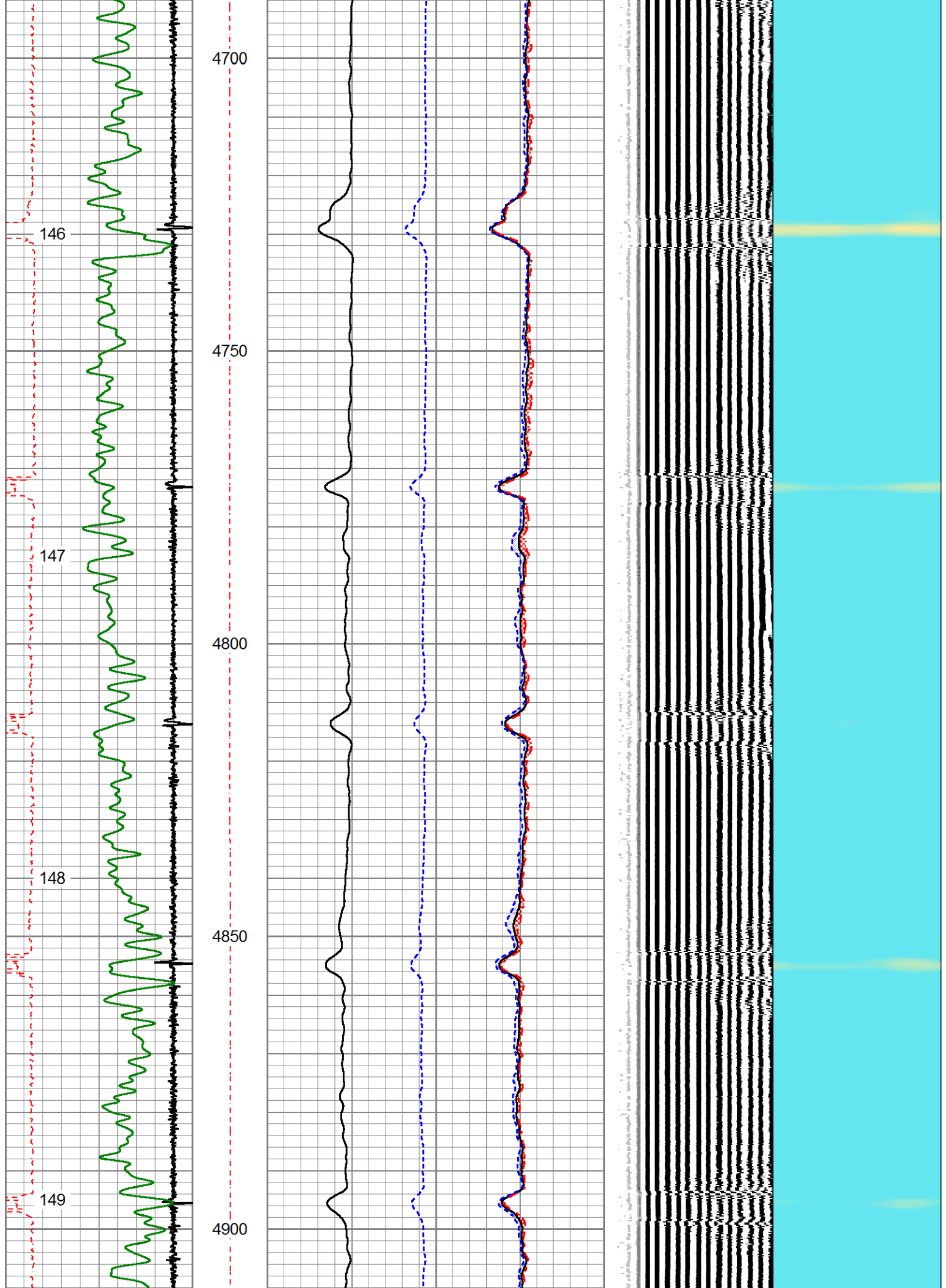
4000

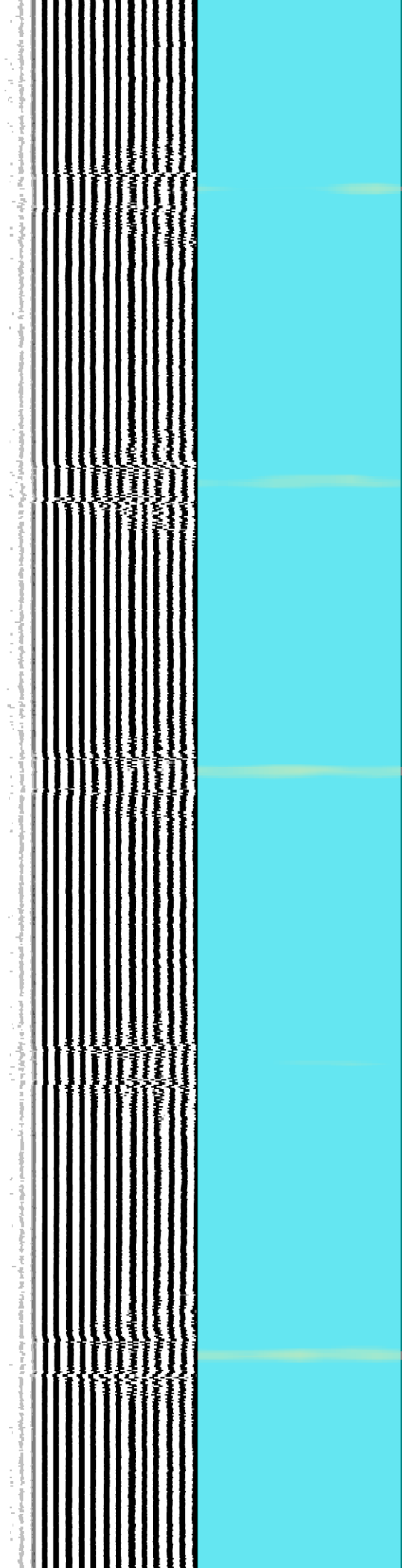
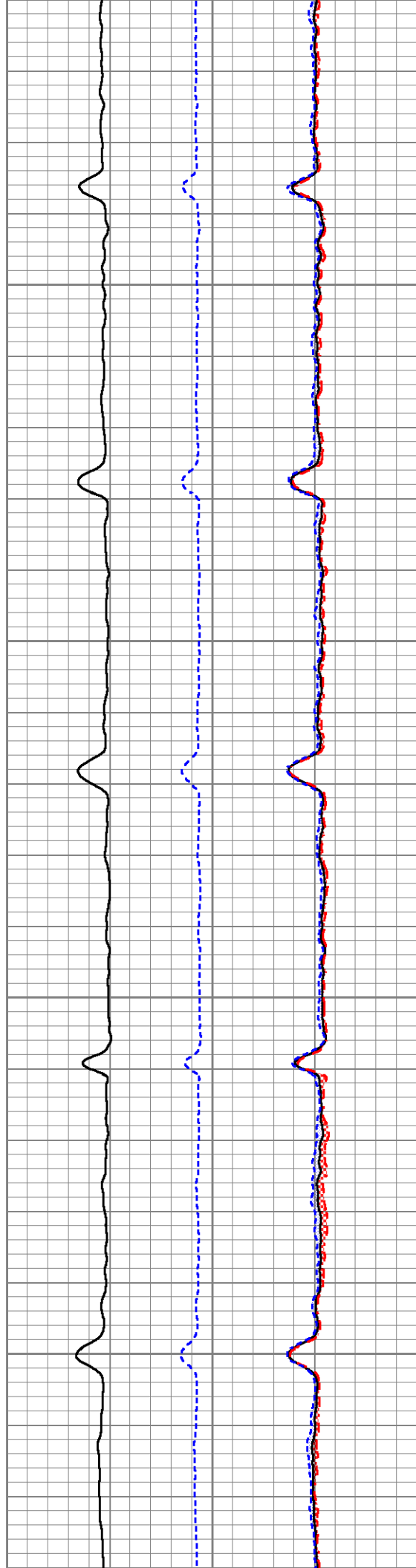
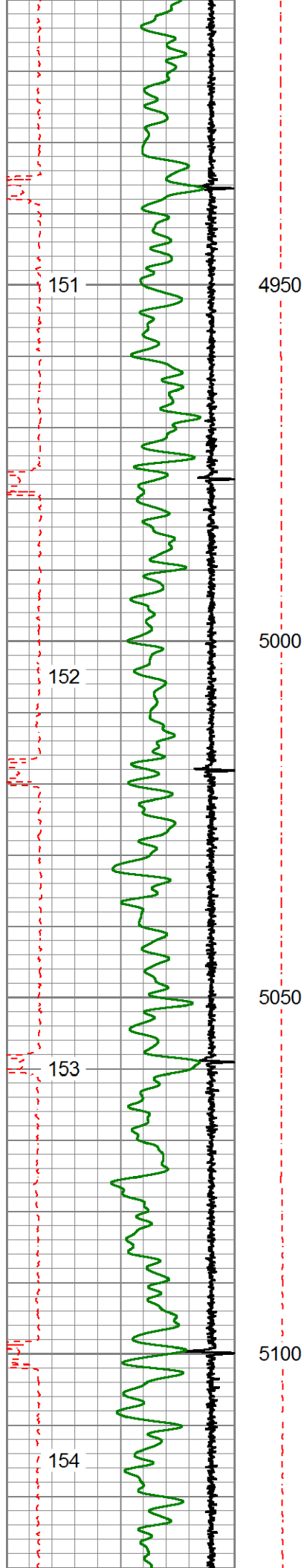


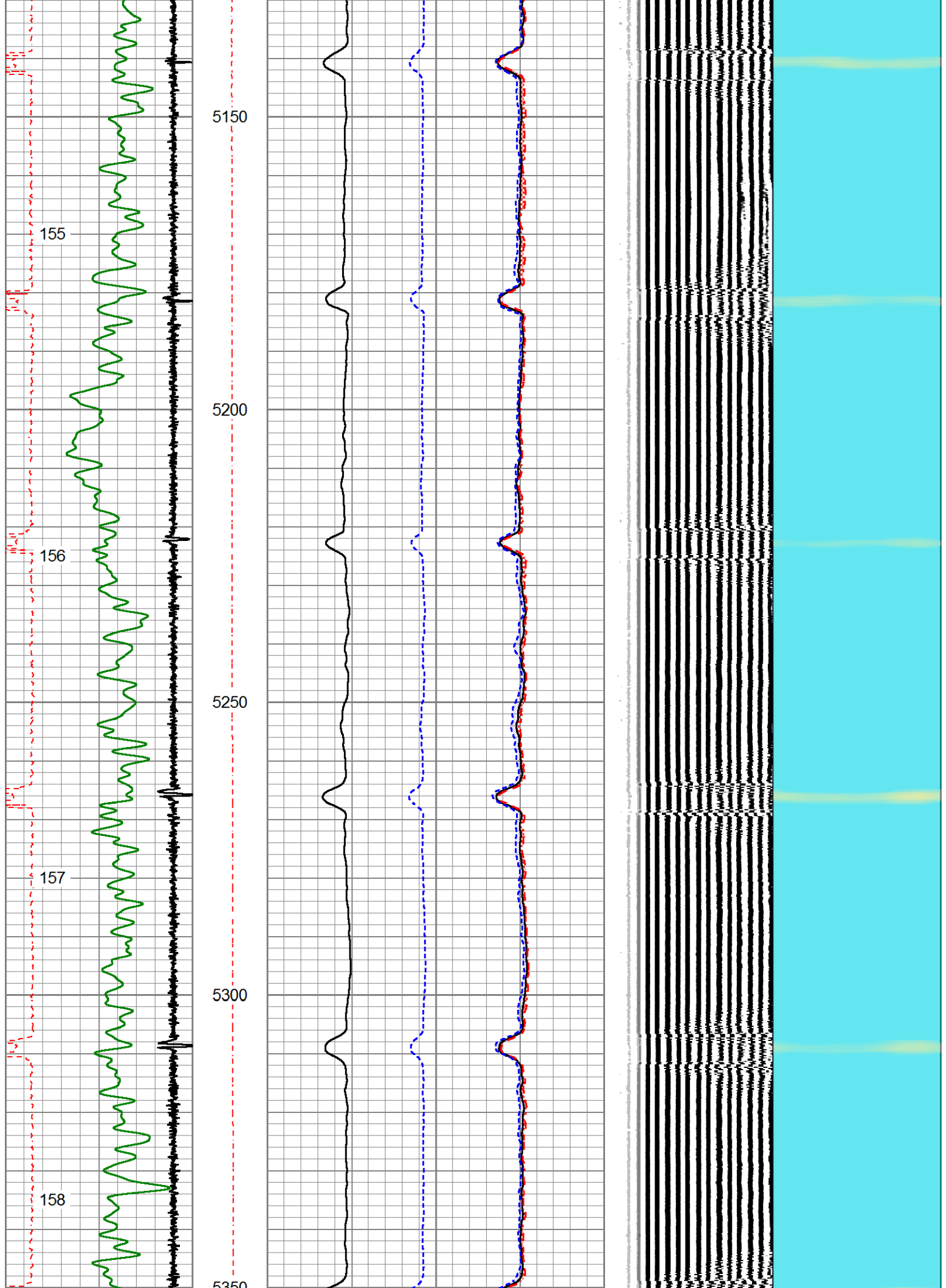


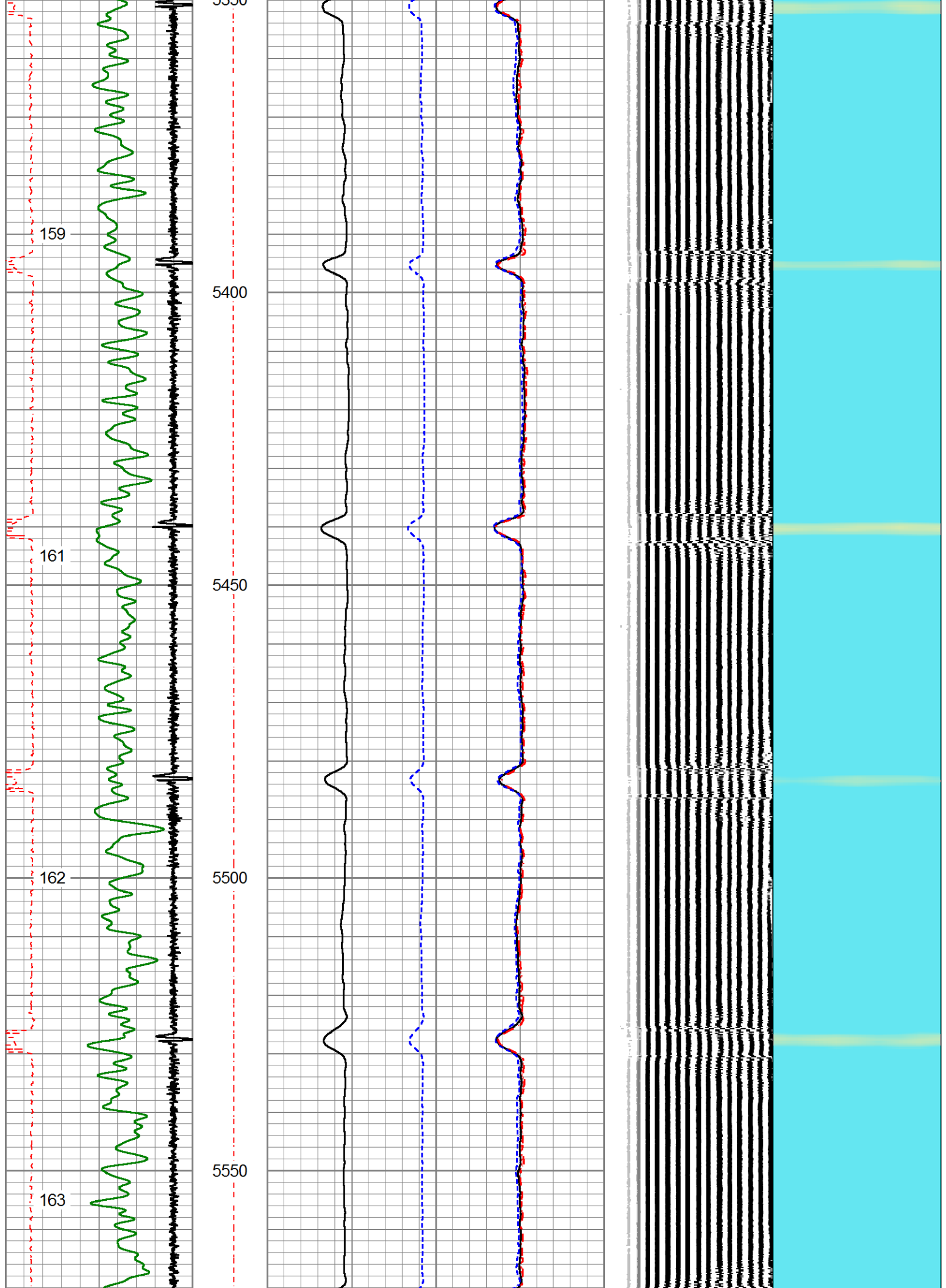


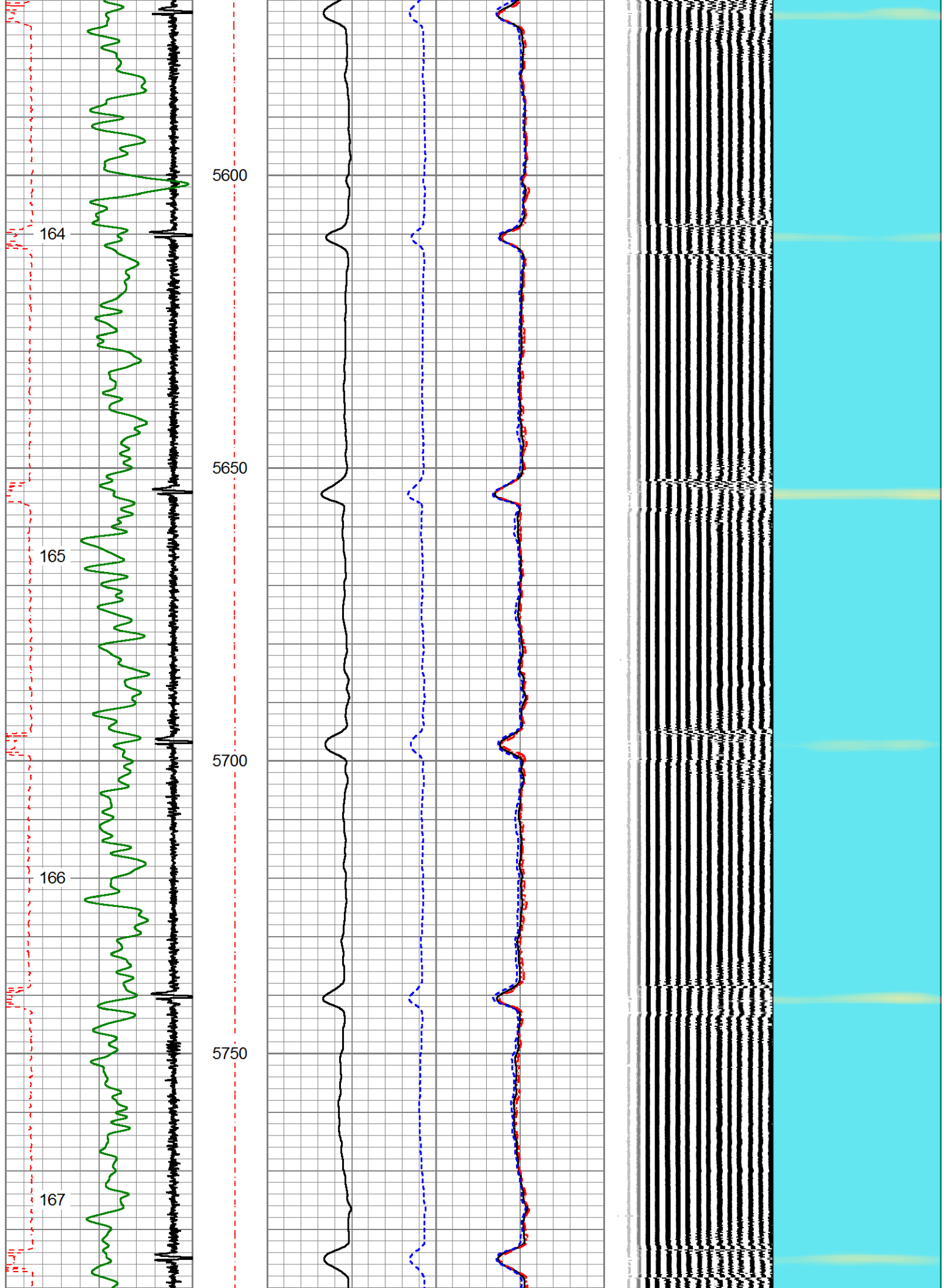


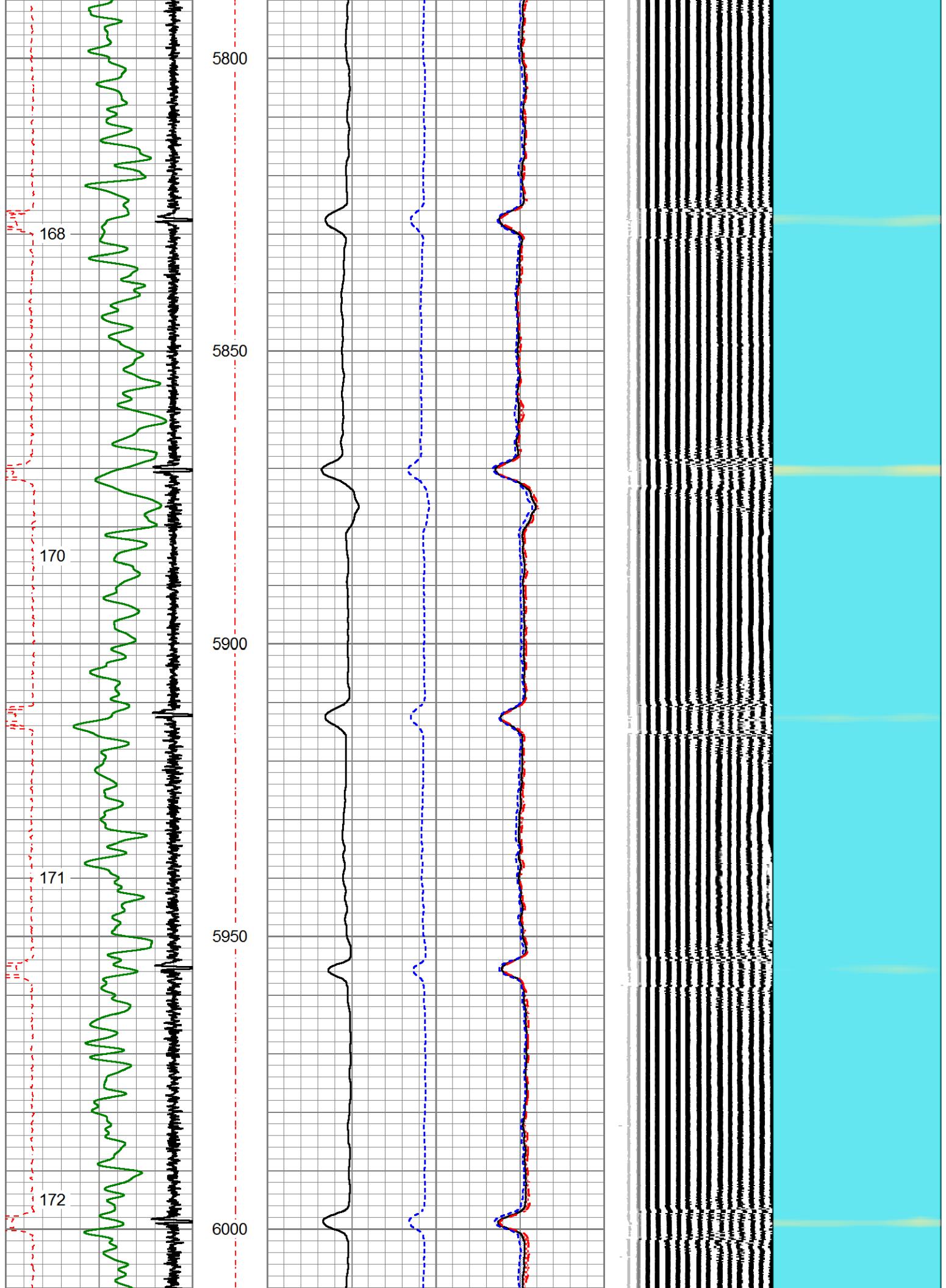


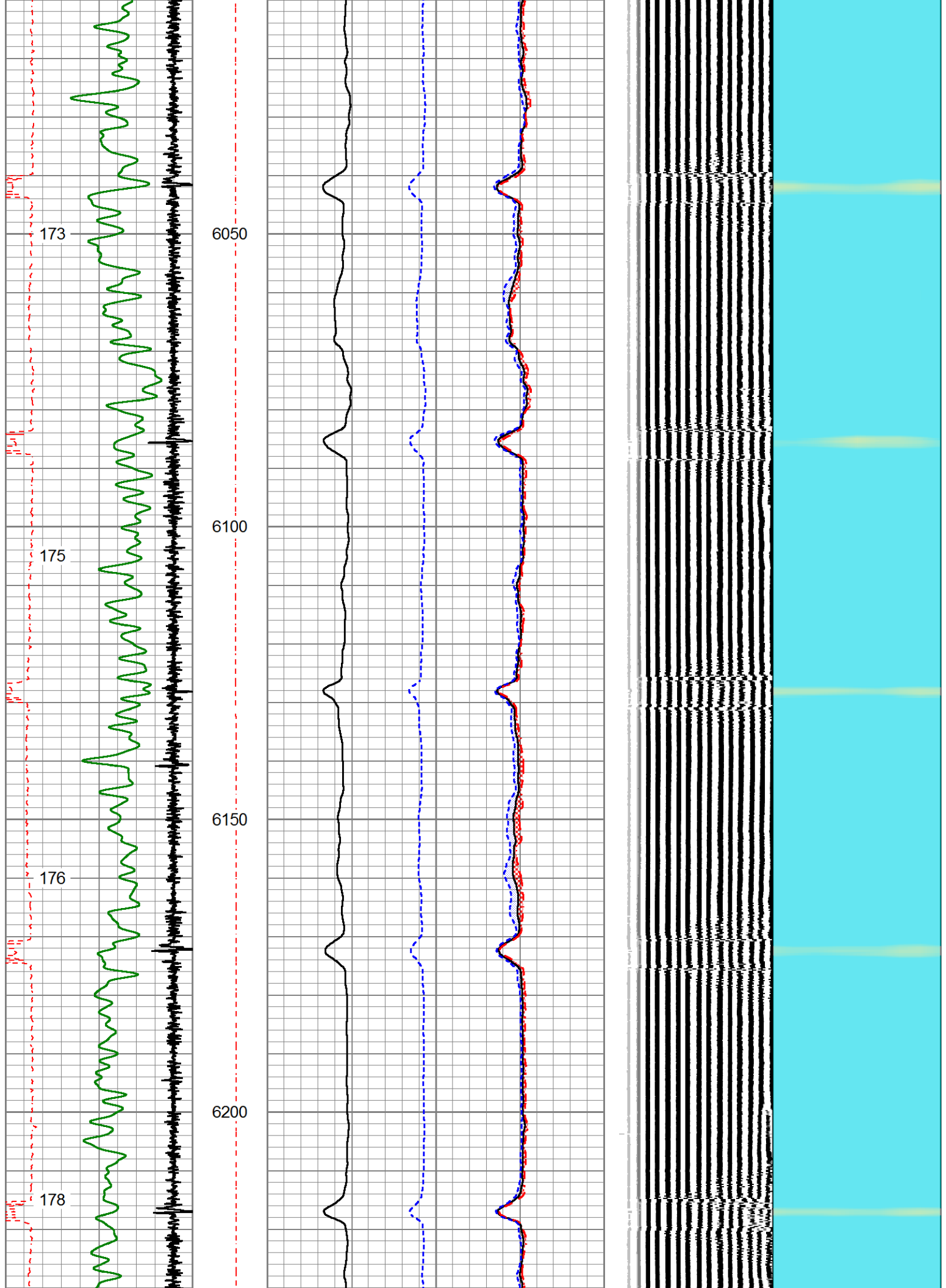


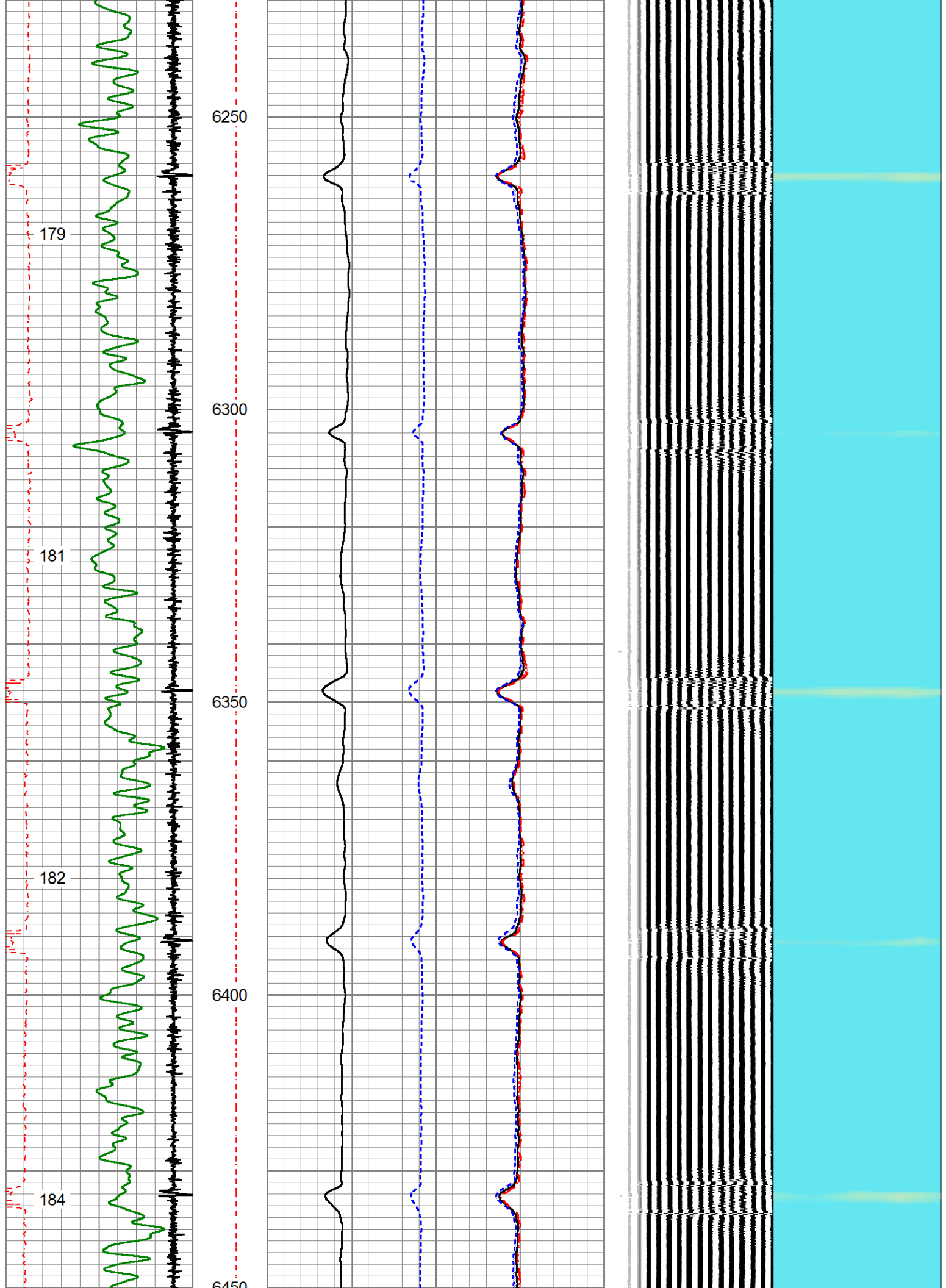


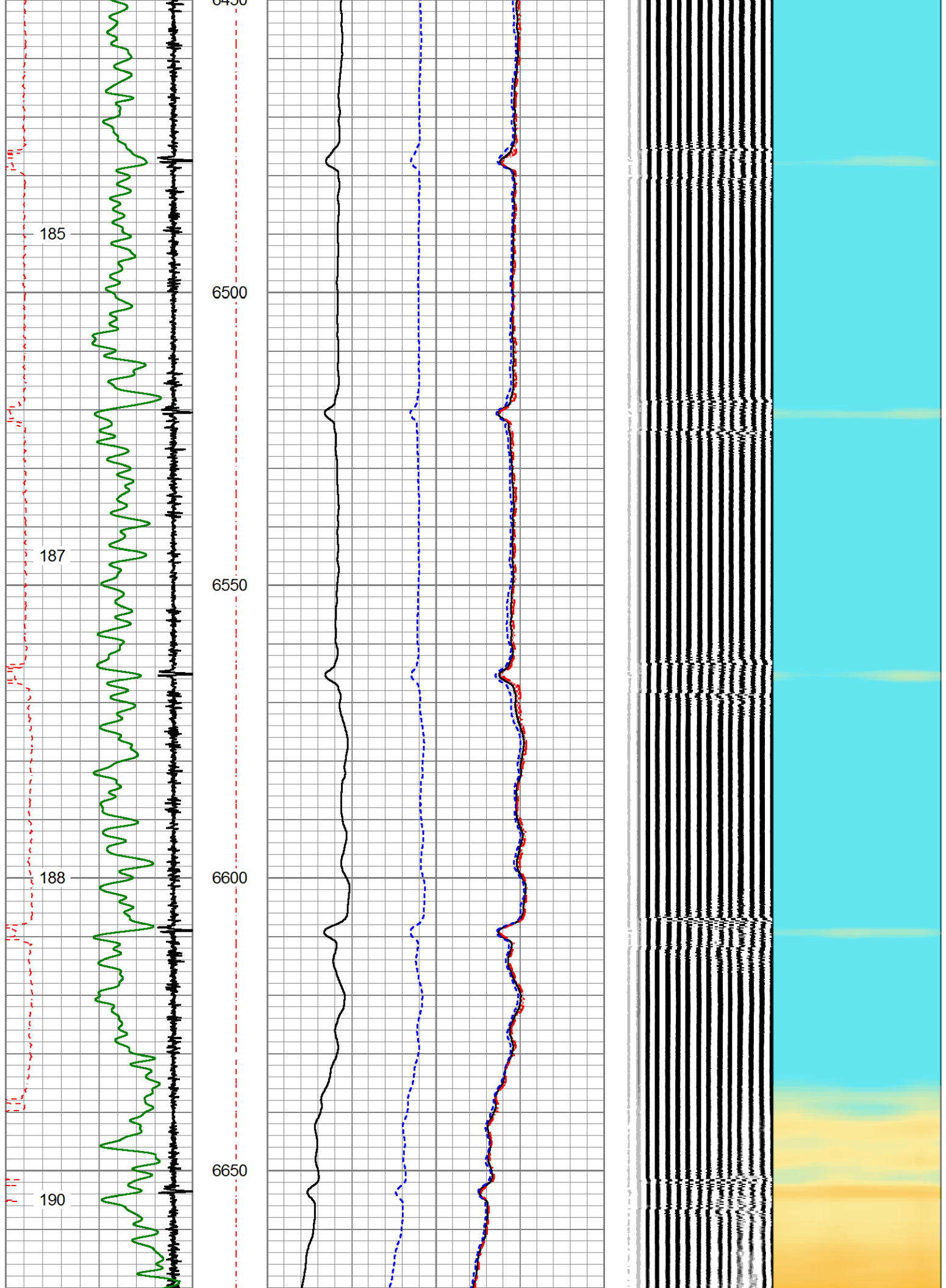


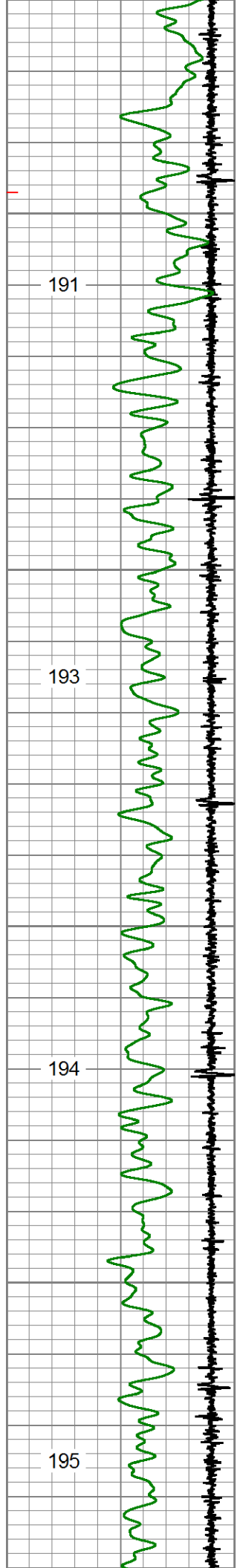










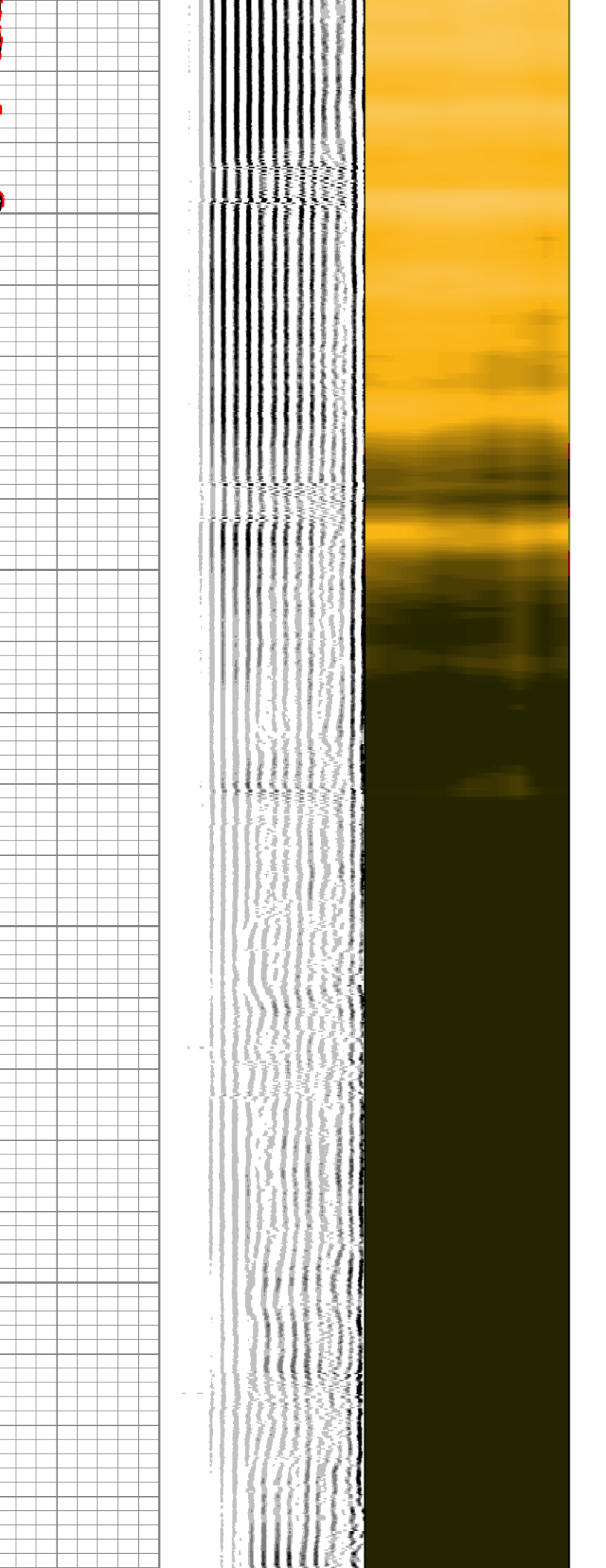
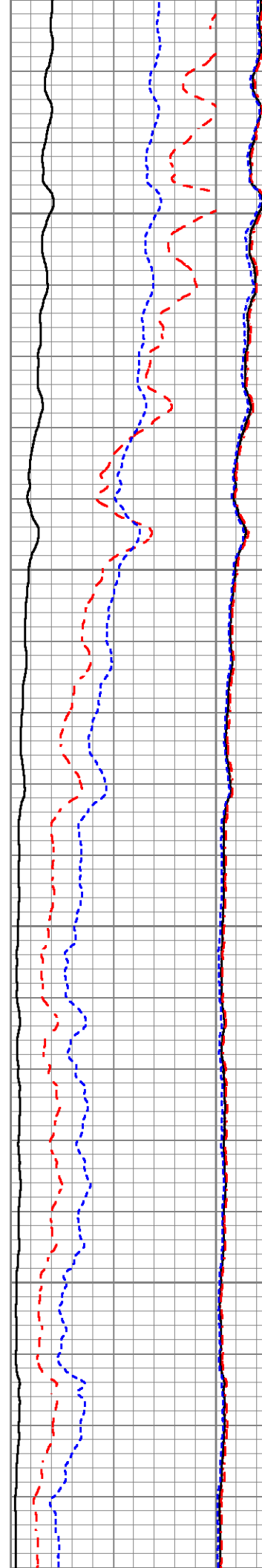


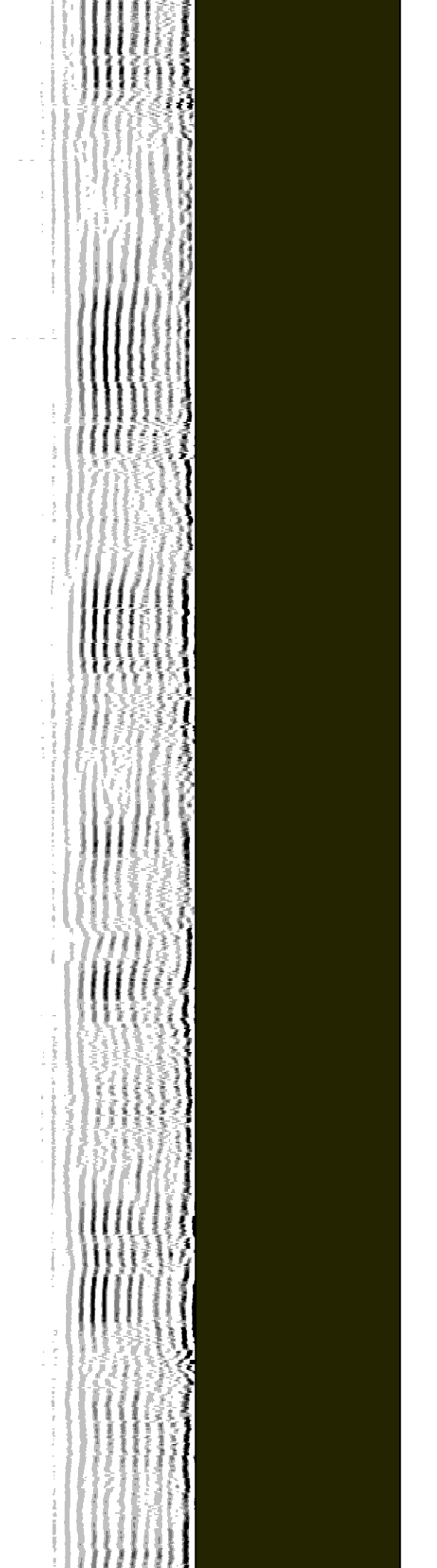
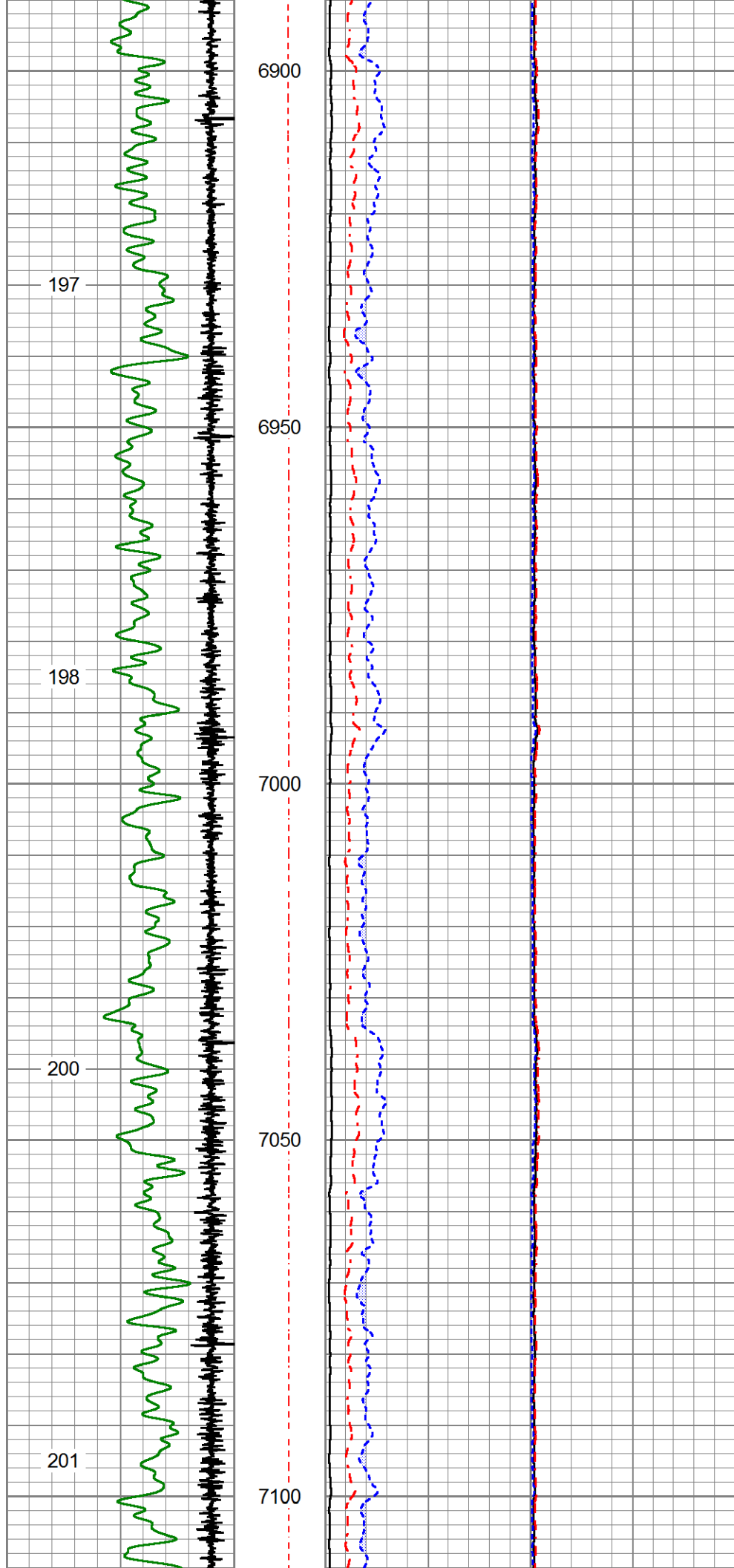
6700

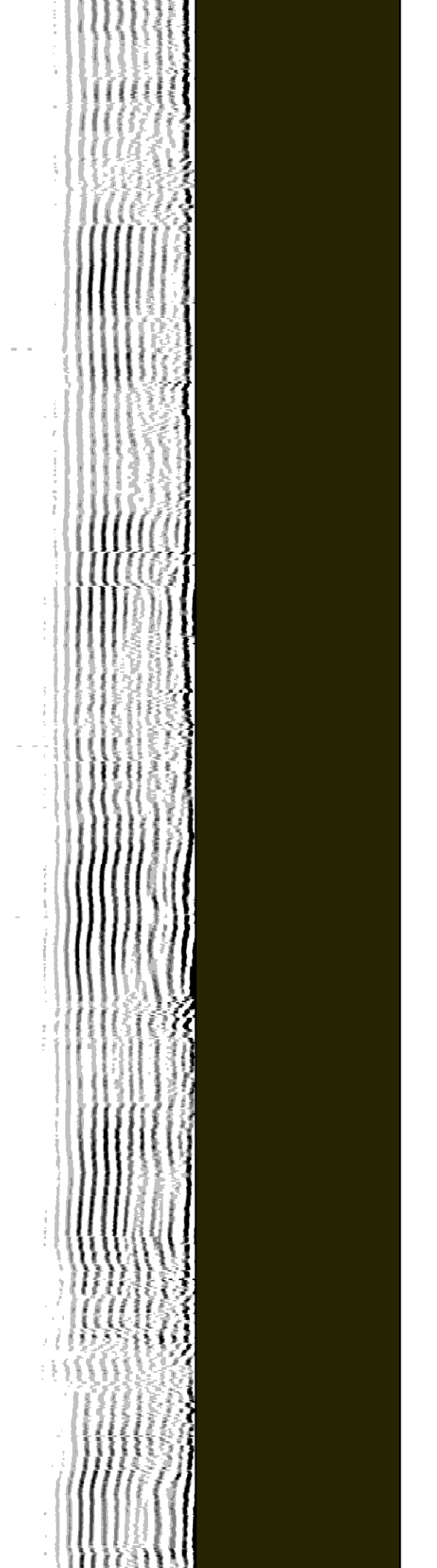
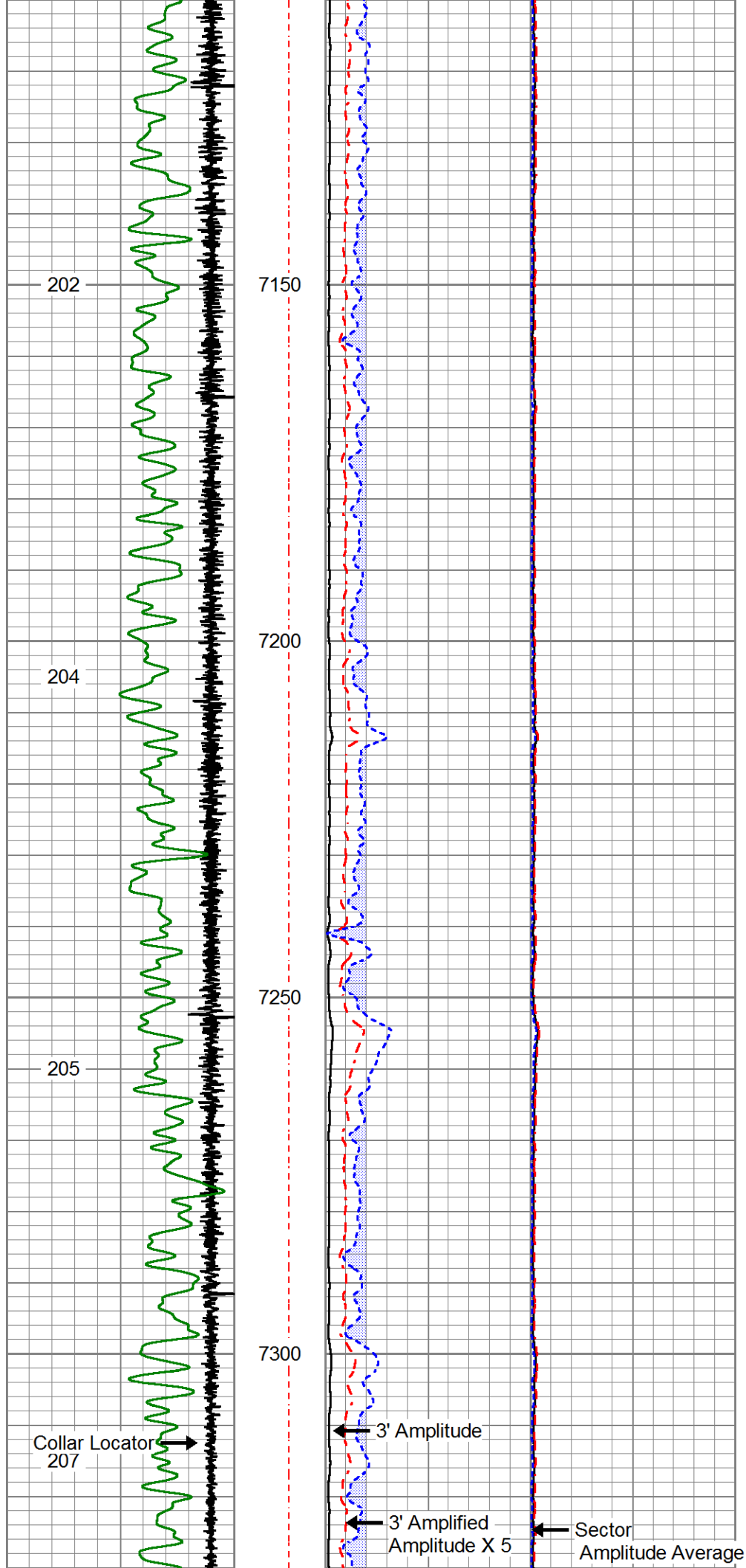
6750

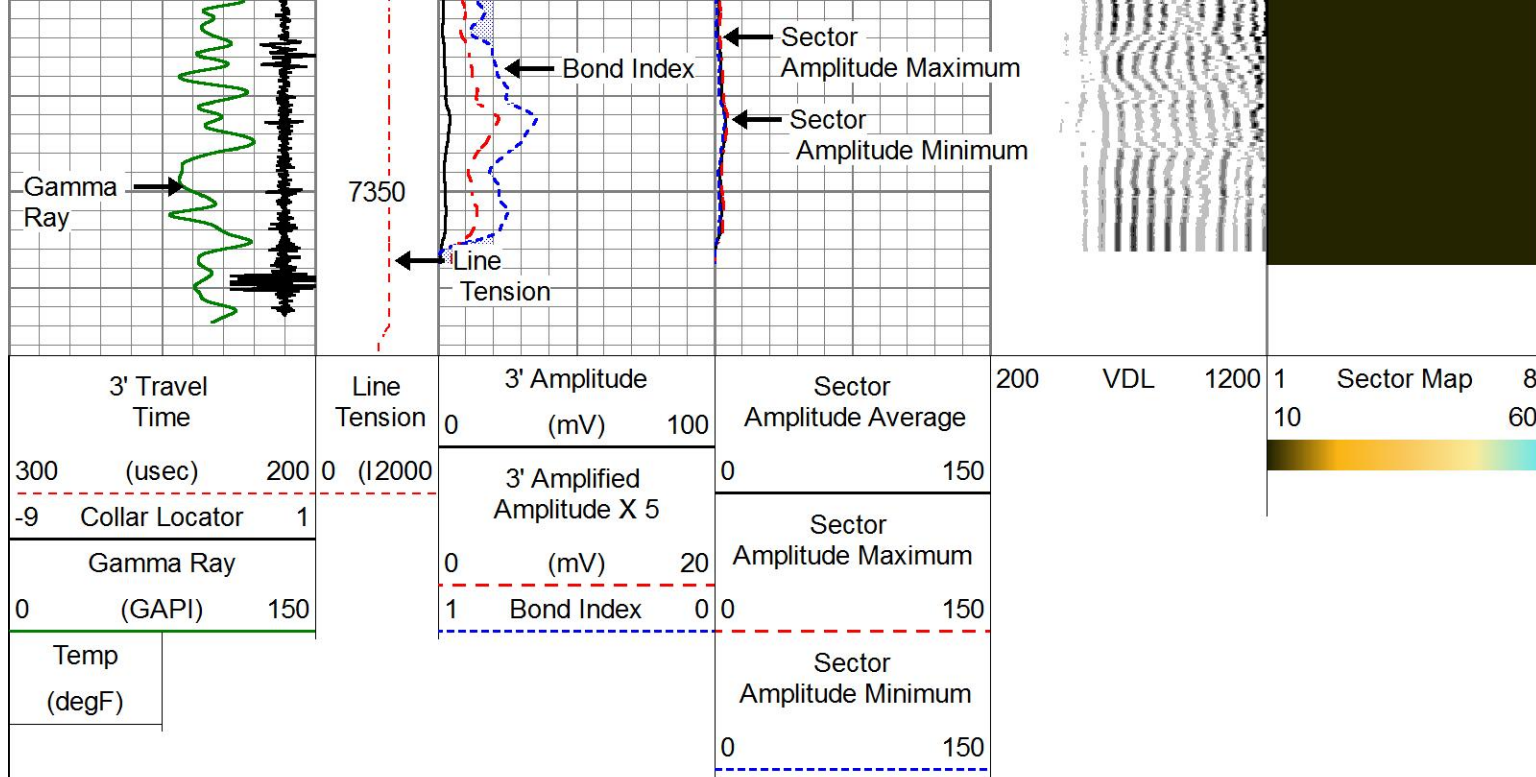
6800

6850







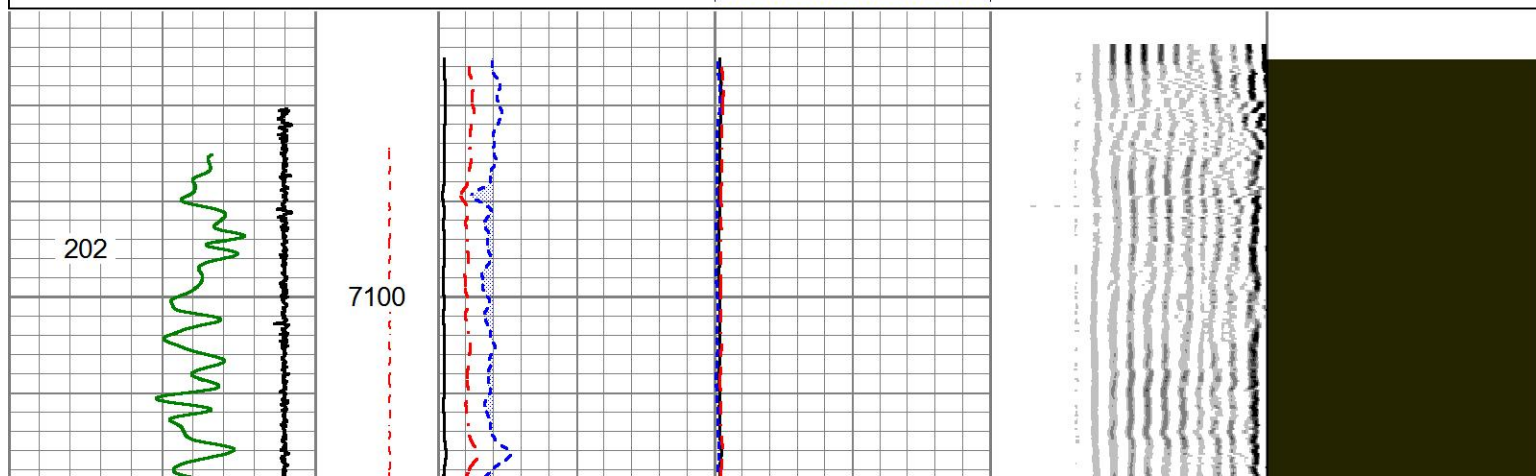
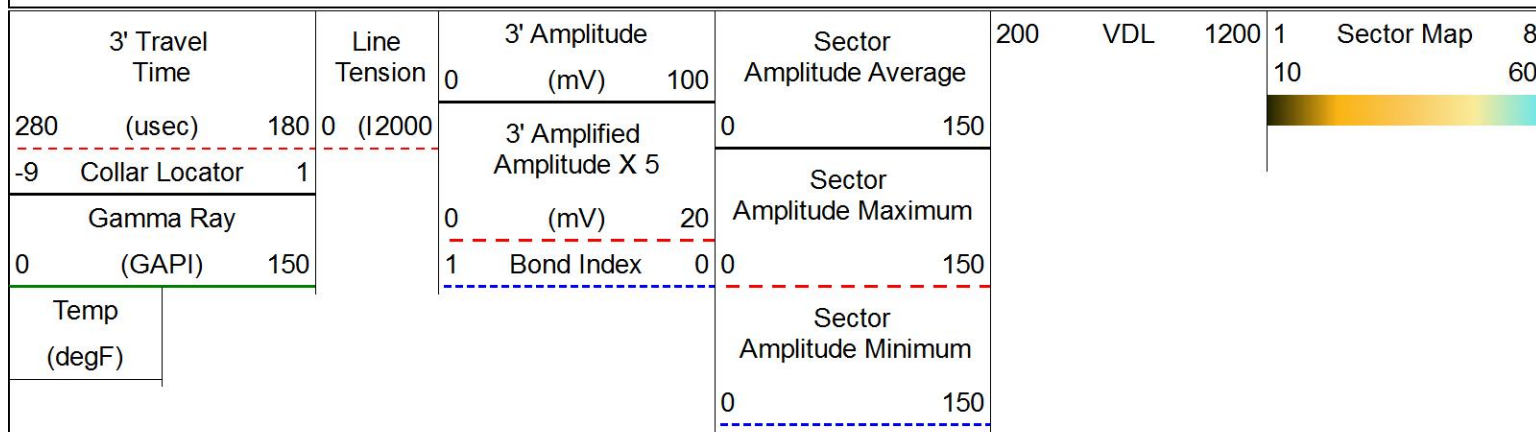


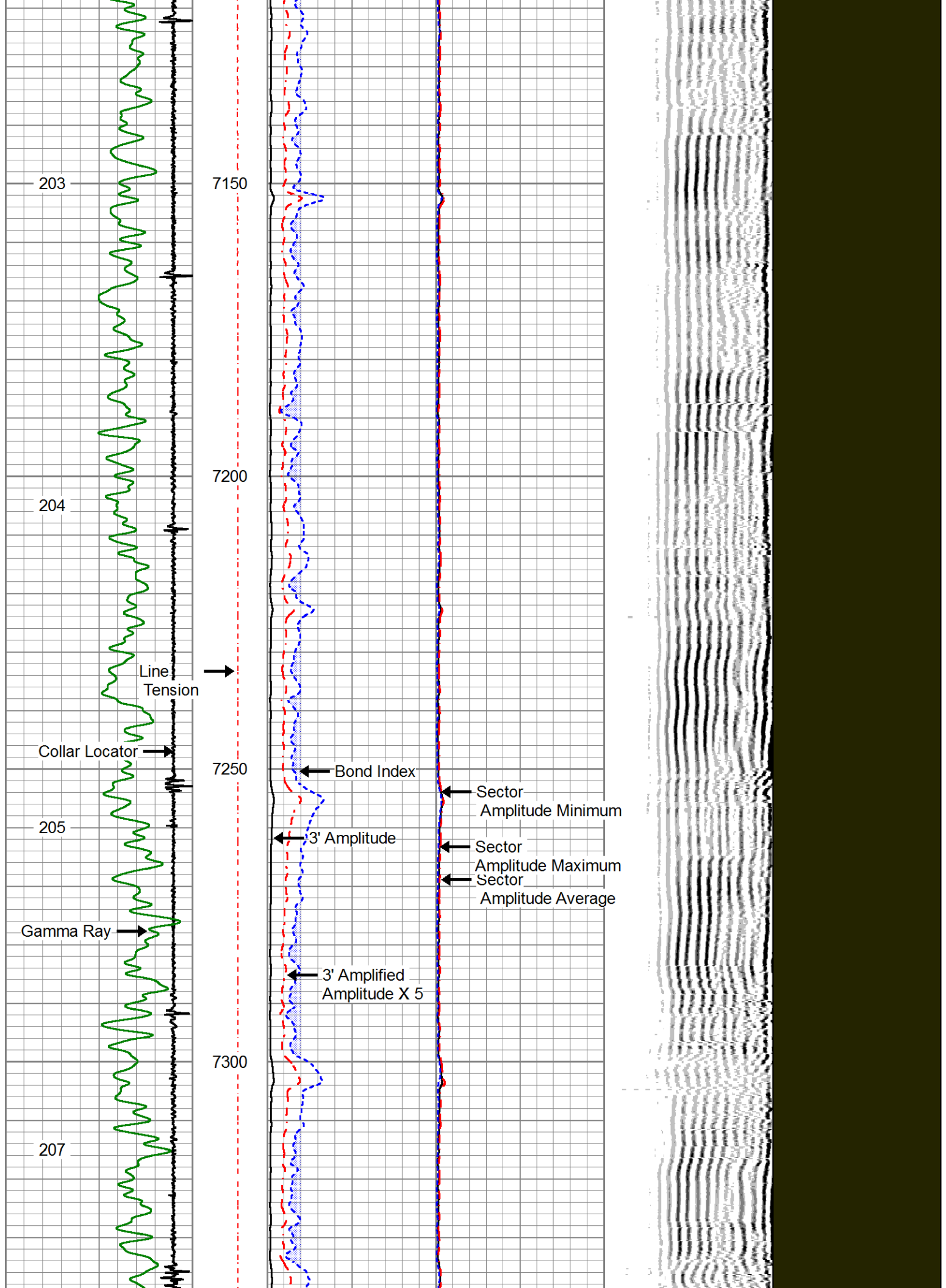


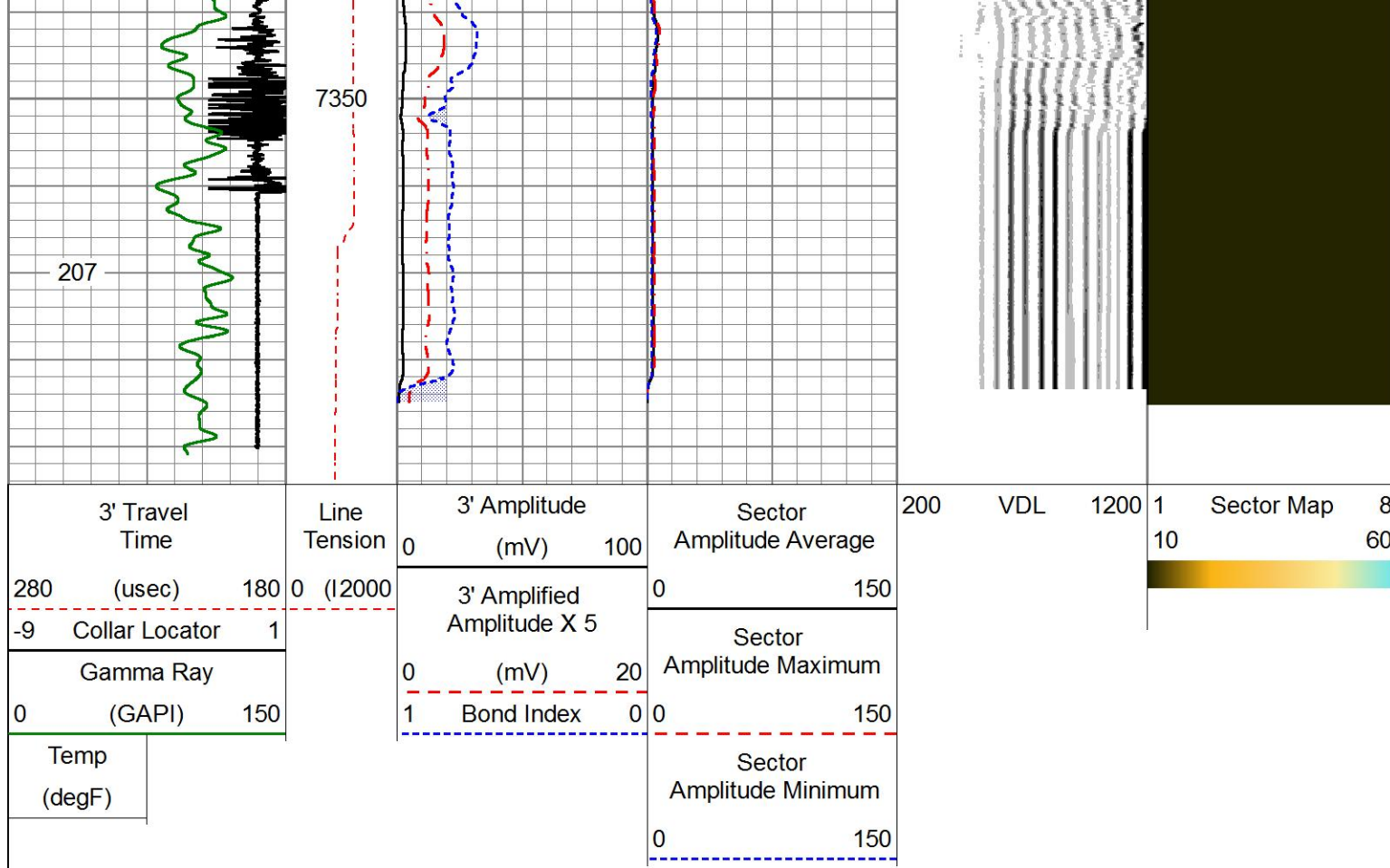
PIONEER
Pioneer Energy Services

REPEAT PASS

Database File	champlin 86.db
Dataset Pathname	pass8
Presentation Format	pinr_scbl
Dataset Creation	Tue Apr 11 17:16:28 2017
Charted by	Depth in Feet scaled 1:240







Calibration Report		
Database File	champlin 86.db	
Dataset Pathname	pass8	
Dataset Creation	Tue Apr 11 17:16:28 2017	

Gamma Ray Calibration Report		
Serial Number:	FW1212-24	
Tool Model:	275 Probe GR-CCL Corrosion	
Performed:	Tue Apr 11 16:52:15 2017	
Calibrator Value:	320.0	GAPI
Background Reading:	14.0	cps
Calibrator Reading:	1153.0	cps
Sensitivity:	0.9000	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	141166	
Tool Model:	275 Probe w Temp New Mod	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1776.850	ft

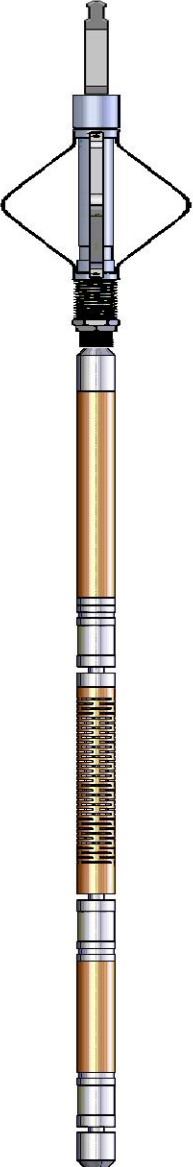
Master Calibration, performed Tue Apr 11 16:55:16 2017:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.590	1.000	62.165	103.648	1.000
CAL	0.000	0.833				

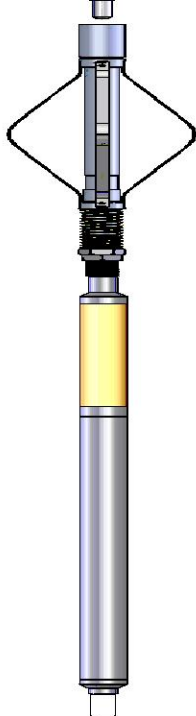
5'	0.000	0.650	1.000	62.165	94.049	1.000
SUM						
S1	0.000	0.565	0.000	100.000	177.098	0.000
S2	0.000	0.577	0.000	100.000	173.324	0.000
S3	0.000	0.614	0.000	100.000	162.856	0.000
S4	0.000	0.648	0.000	100.000	154.353	0.000
S5	0.000	0.651	0.000	100.000	153.526	0.000
S6	0.000	0.626	0.000	100.000	159.707	0.000
S7	0.000	0.603	0.000	100.000	165.948	0.000
S8	0.000	0.586	0.000	100.000	170.770	0.000

Temperature Calibration Report

Serial Number: 141166
 Tool Model: 275 Probe w Temp New Mod
 Performed: Thu Oct 27 08:20:08 2016

	Reference	Reading
Low Reference:	35.00 degF	0.25 degF
High Reference:	210.00 degF	1.31 degF
Gain:	0.76	
Offset:	6.00	
Delta Spacing	1	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	14.02		Cable Head-Titan 143 1 7/16" Titan Cable Head	1.03	1.43	2.00
			Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.73	2.75	20.00
			SCBL-275 Probe w Temp New Mod (141169.17) Probe Radii Bond Tool with Temperature		2.75	95.00
WVFS8	11.79					
WVFS7	11.79					
WVFS6	11.79					
WVFS5	11.79					
WVFS4	11.79					
WVFS3	11.79					
WVFS2	11.79					
WVFS1	11.79					
WVFCAL	11.79					
WVF3FT	11.79					

WVF5FT HEADVOLT	10.79 7.54		Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.73	2.75	20.00
CCL	3.91		GR_CCL-275 Probe GR-CCL Corrosion Probe 2 3/4" Gamma Ray / CCL Corrosion Digital	(F4.54:12-242.75		60.00
GR	1.17		Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00
Dataset: champlin 86.db: field/well/run1/pass8 Total length: 20.47 ft Total weight: 198.00 lb O.D.: 2.75 in						

 PIONEER Pioneer Energy Services			Company ANADARKO Well CHAMPLIN 86 AMOCO G1 Field WATTENBURG County WELD State COLORADO	Country
---	--	--	---	----------------