



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
C SW
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'**
G.L. **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'

Tubing Record

Surface Casing

Production Casing

Liner Record

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew

Tool Data - Services

Serial Number

Engineer: **M.FARRIS/ C.BURNS**

Operator: **G.SOTO**

Operator: **P.LEUHOLD**

Operator:

Top - Bottom

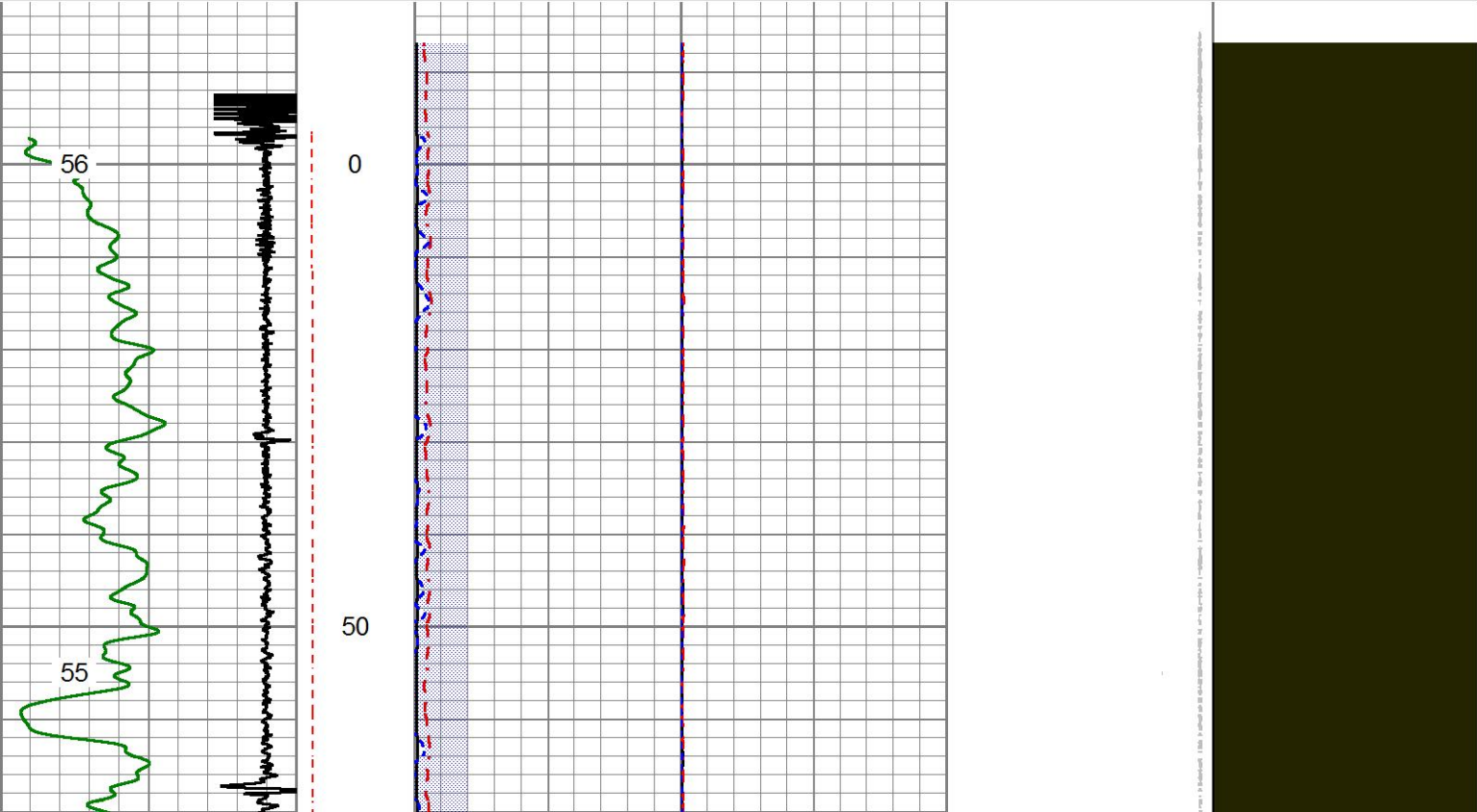
BHTEMP_Src TEMP	PPT usec 0	CASEWGHT lb/ft 26	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08	SRFTEMP degF 0	CASETHCK in 0
CASEOD in 7	PERFS 0	TDEPTH ft 0	BOTTEMP degF 100	BOREID in 7.875			

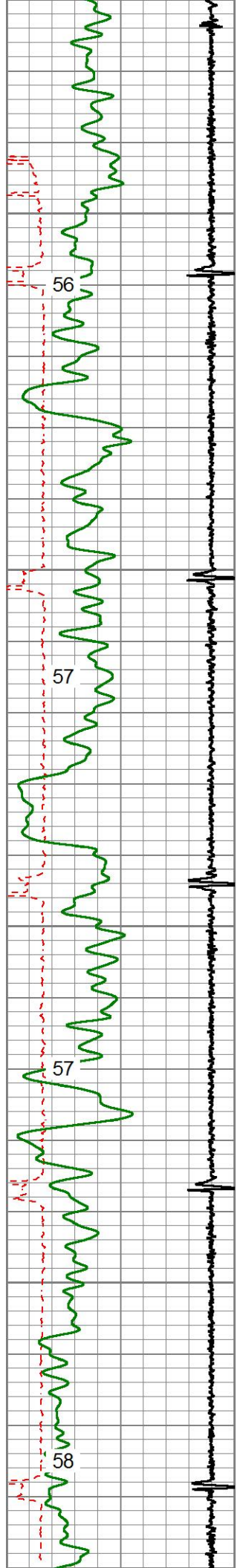


MAIN PASS

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 0 (I2000)	3' Amplitude (mV)		Sector Amplitude Average 0 150	200 VDL 1200	1 Sector Map 8 10 60
300 (usec)		200		0	100			
-9 Collar Locator 1				3' Amplified Amplitude X 5				
Gamma Ray				(mV)				
0 (GAPI)		150		0	20			
Temp (degF)			Bond Index		Sector Amplitude Maximum 0 150			
			1	0				
					Sector Amplitude Minimum 0 150			



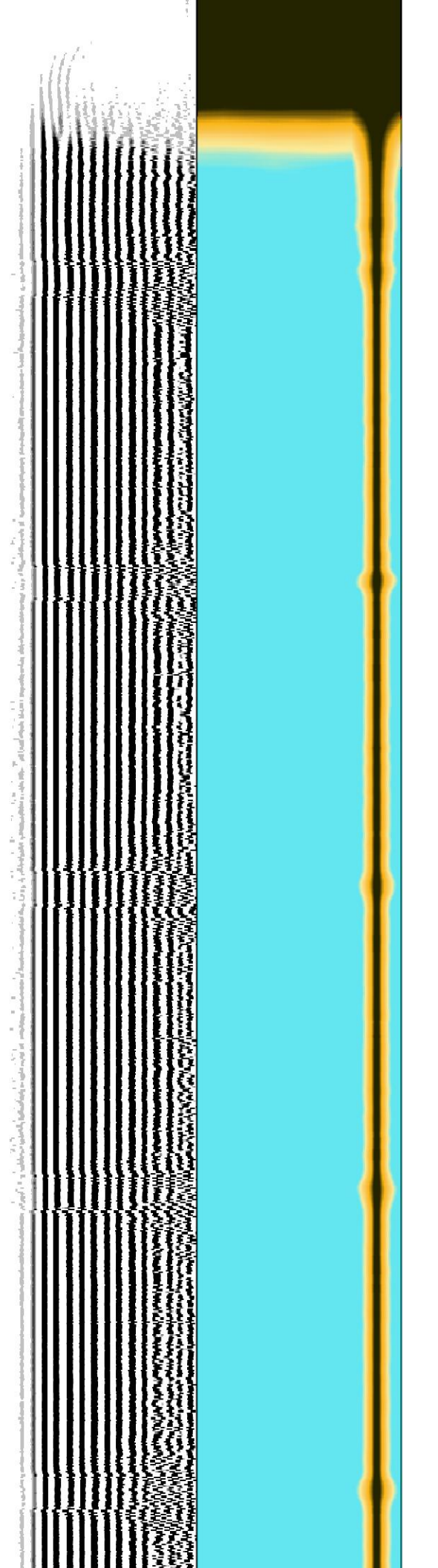
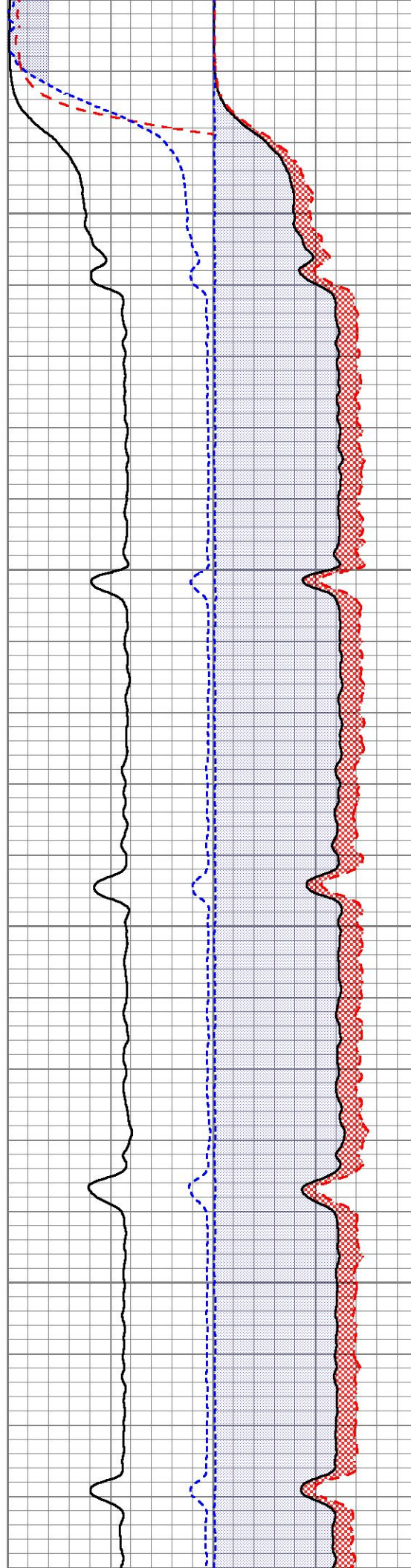


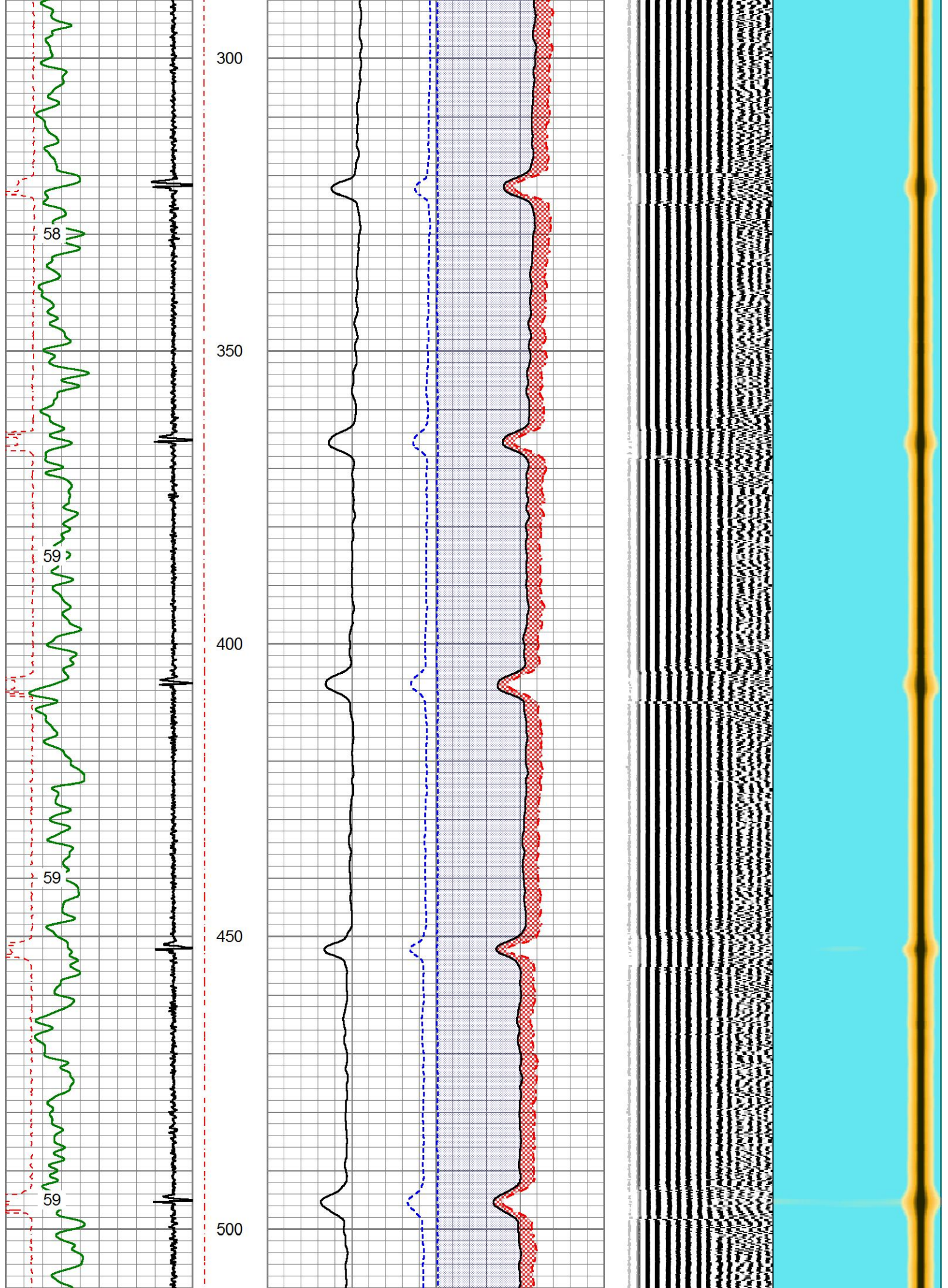
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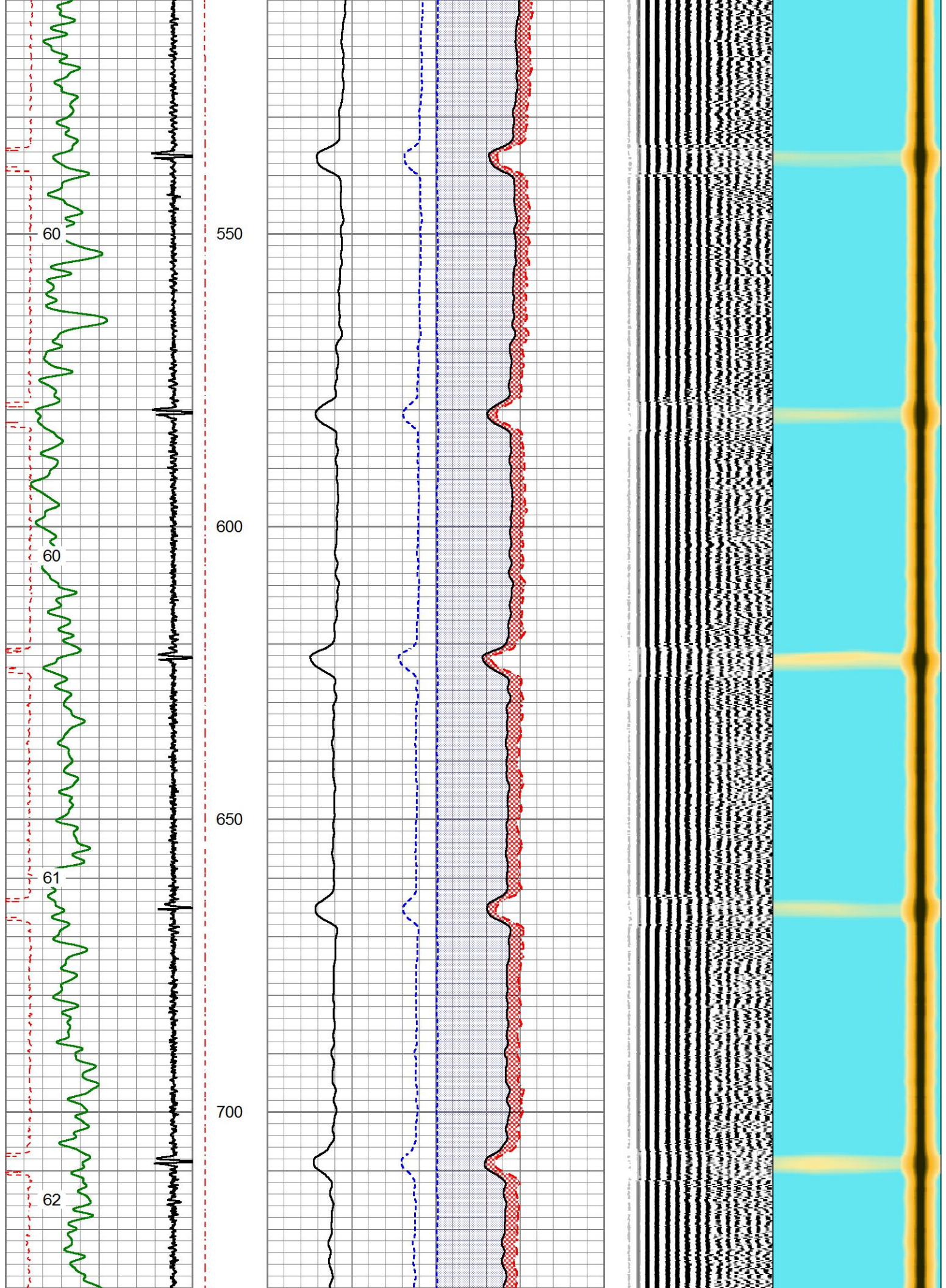
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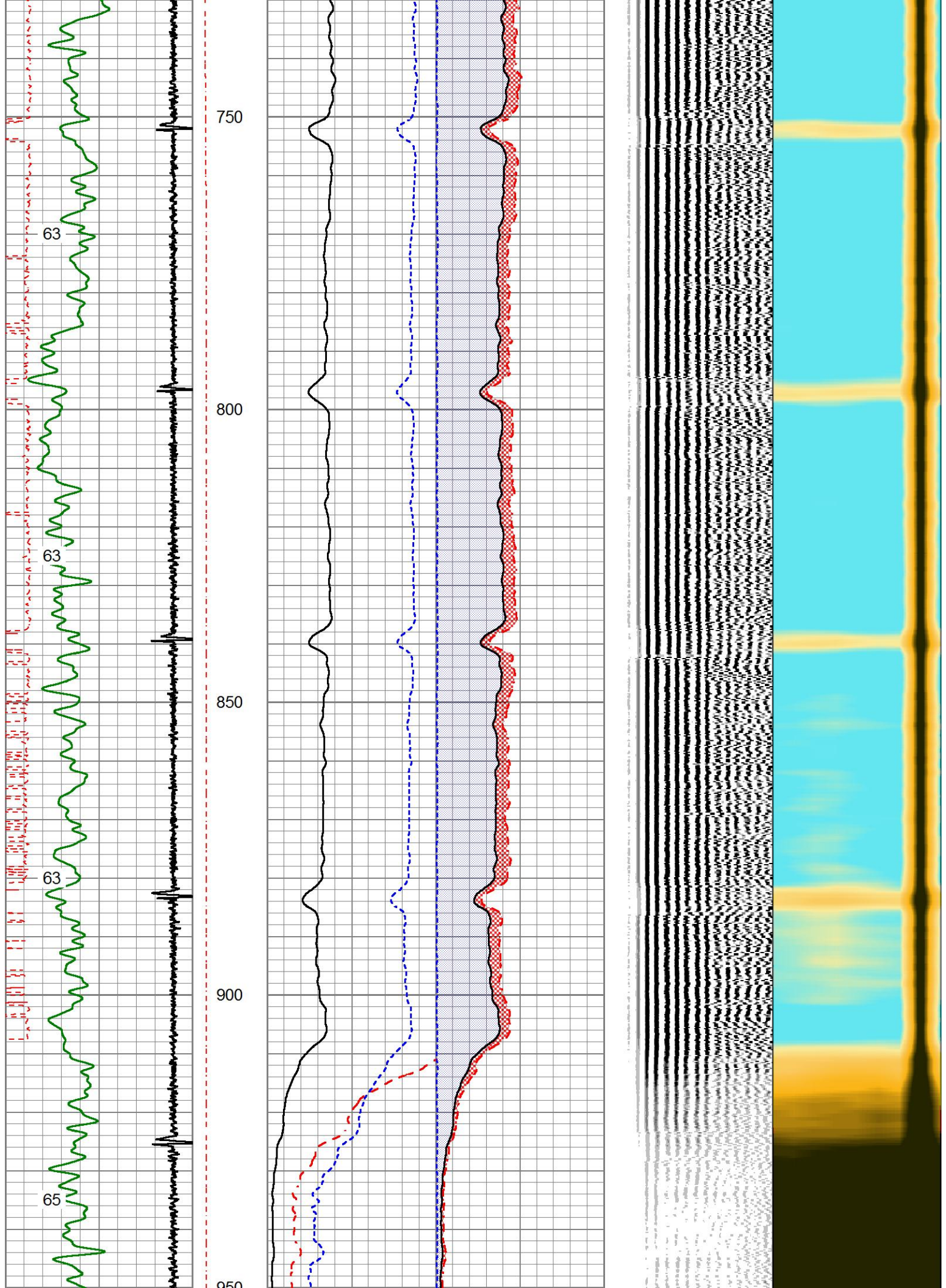
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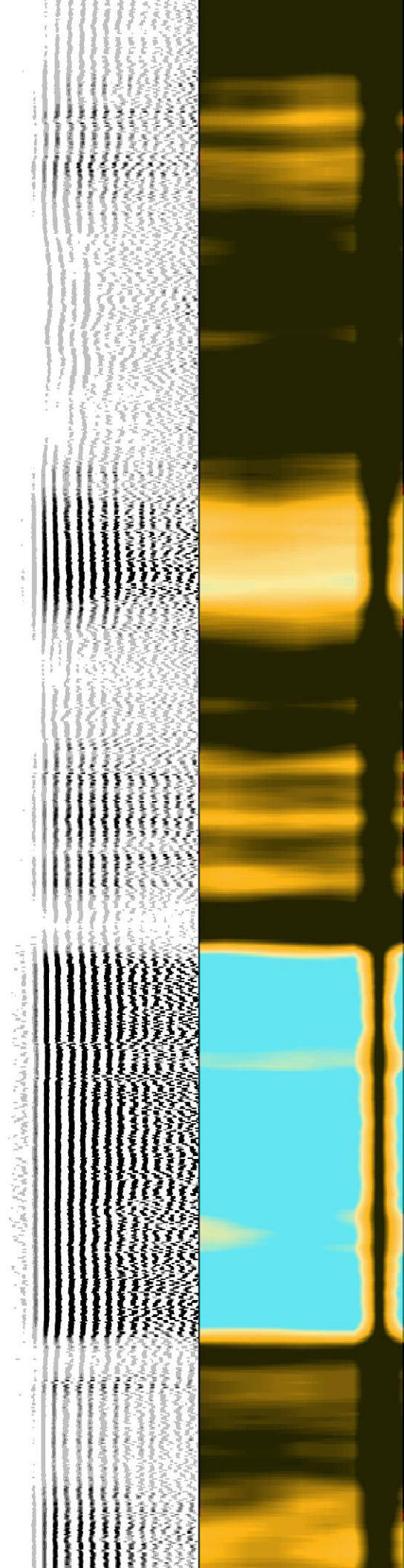
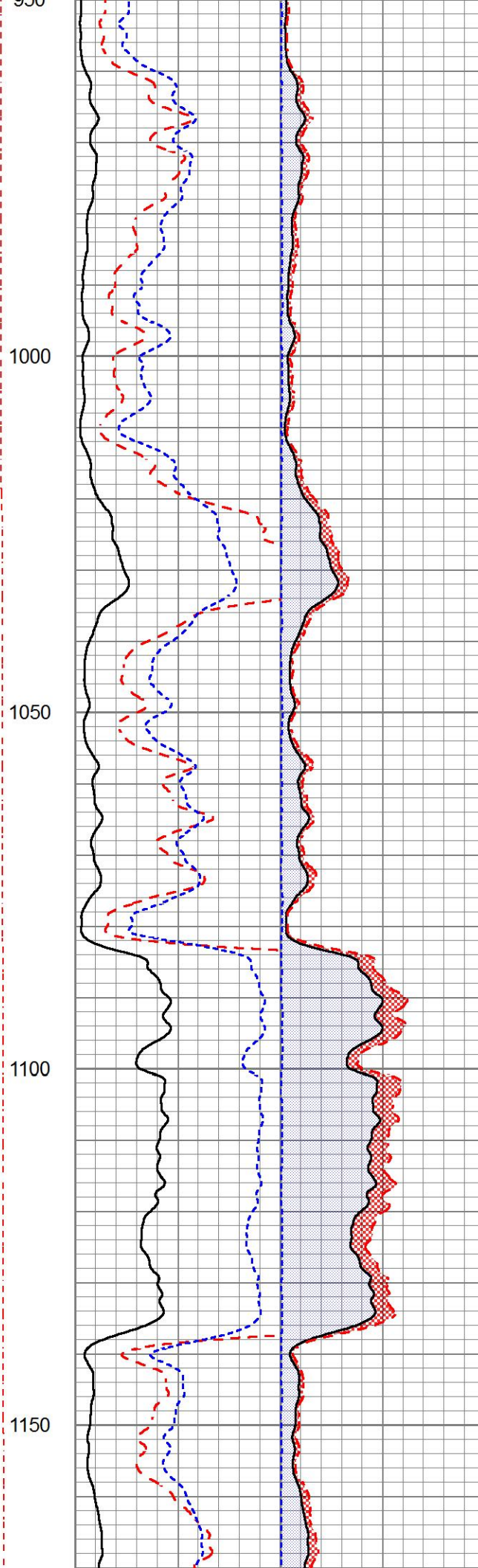
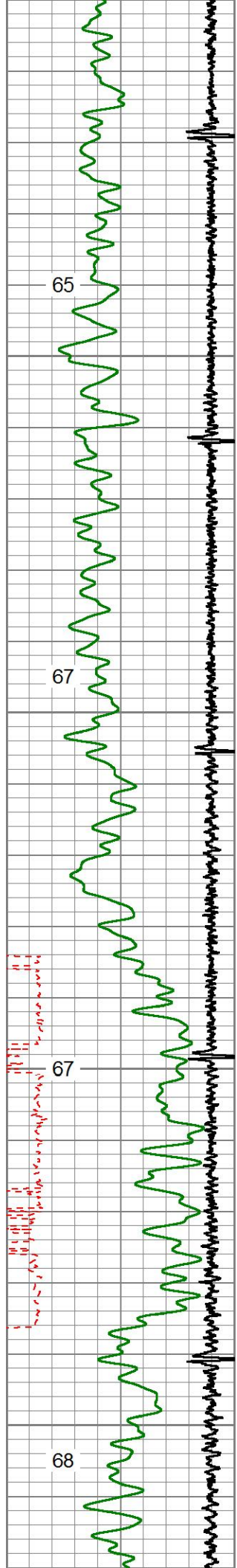
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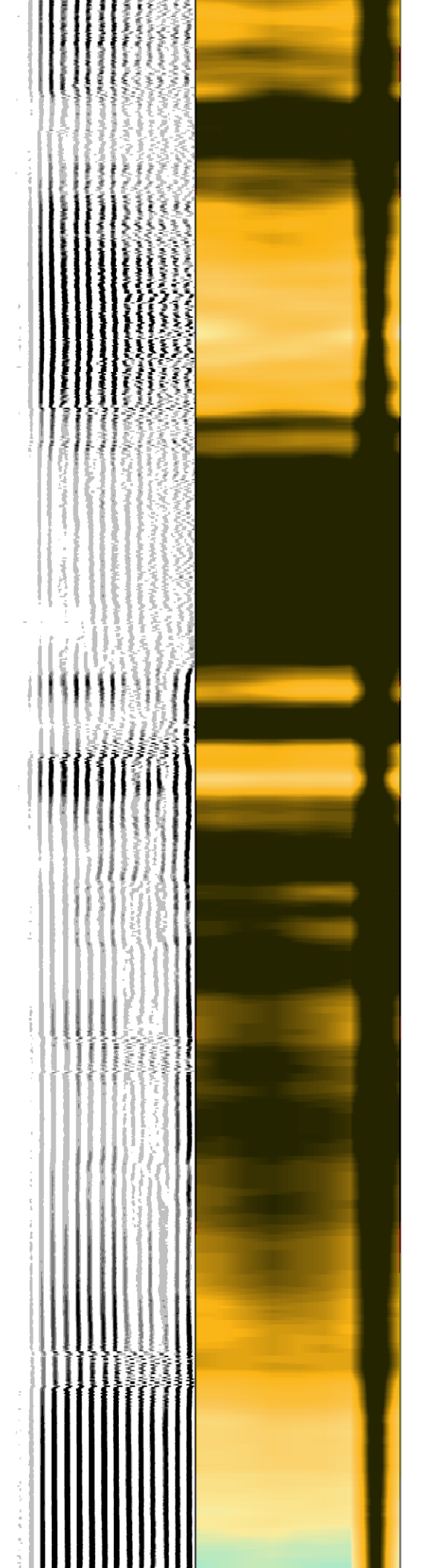
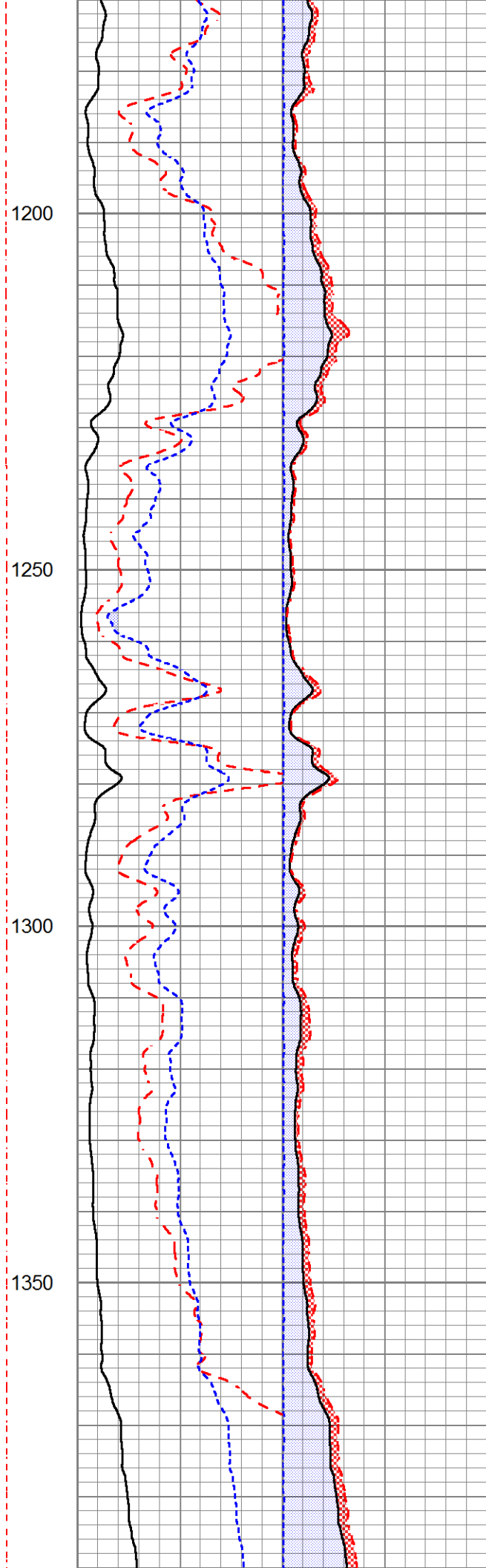
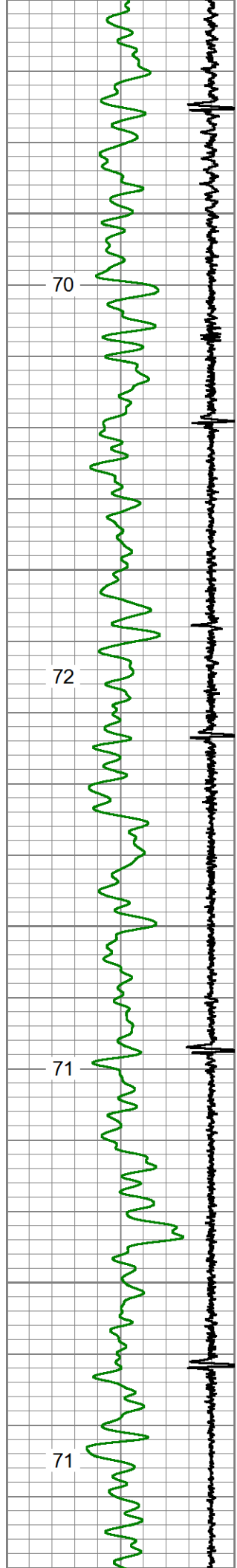


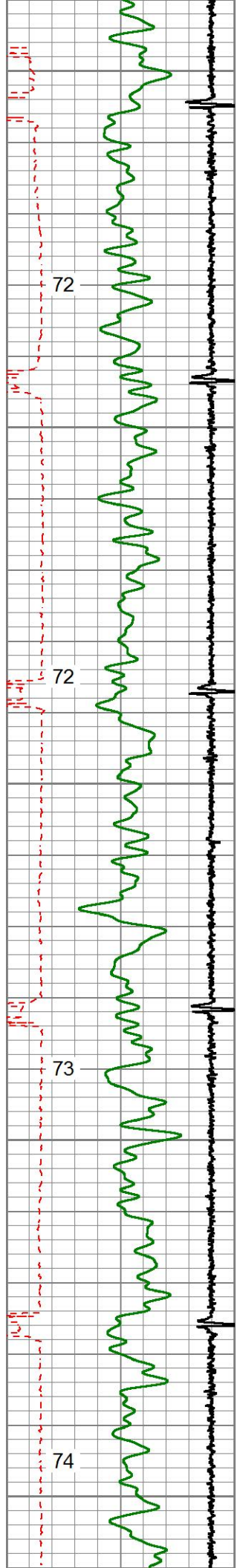












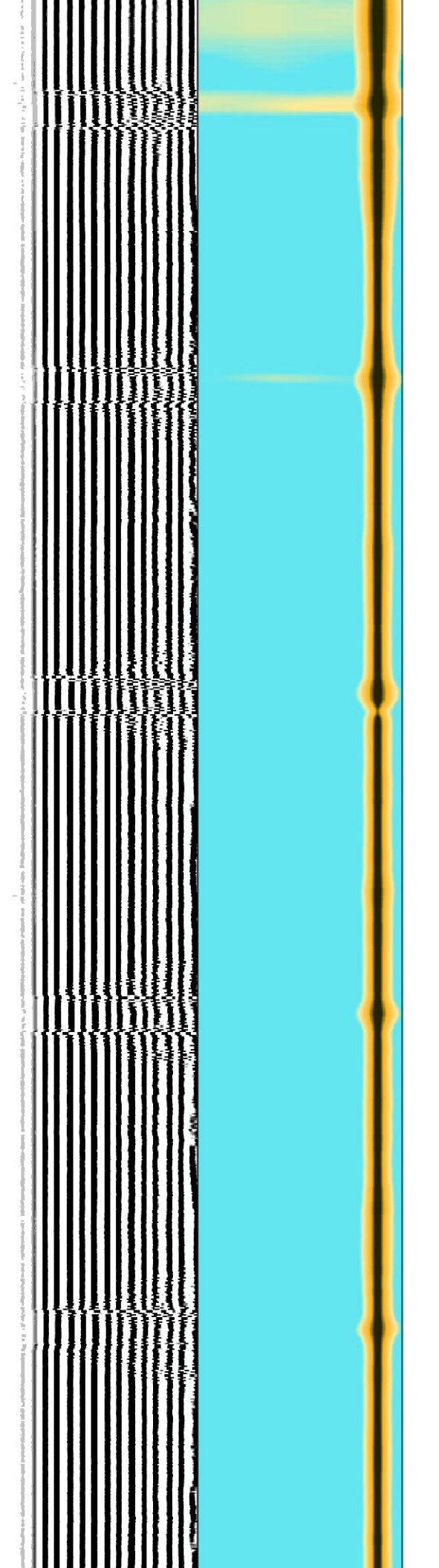
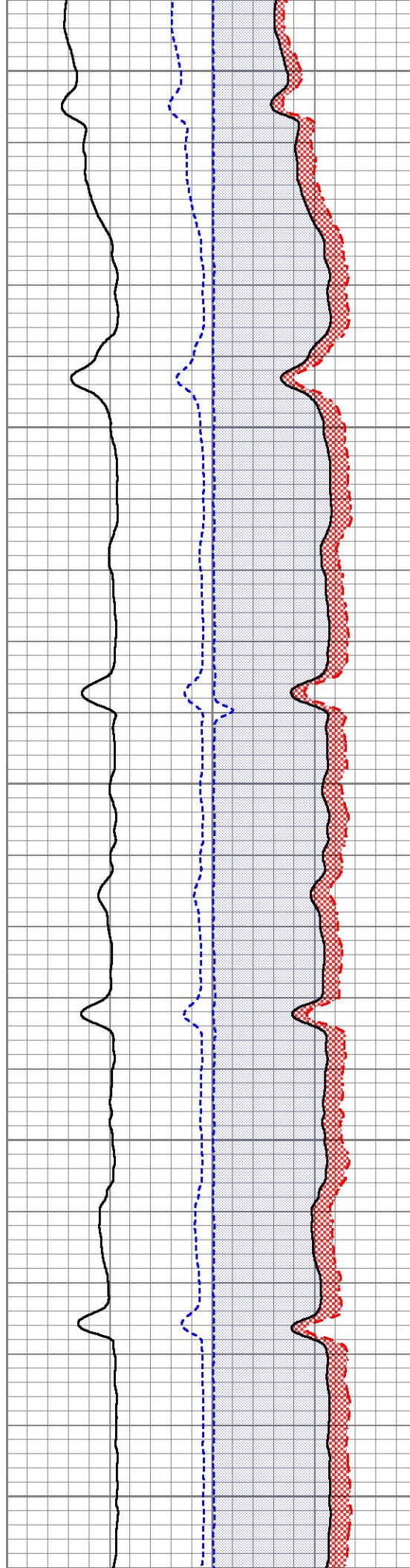
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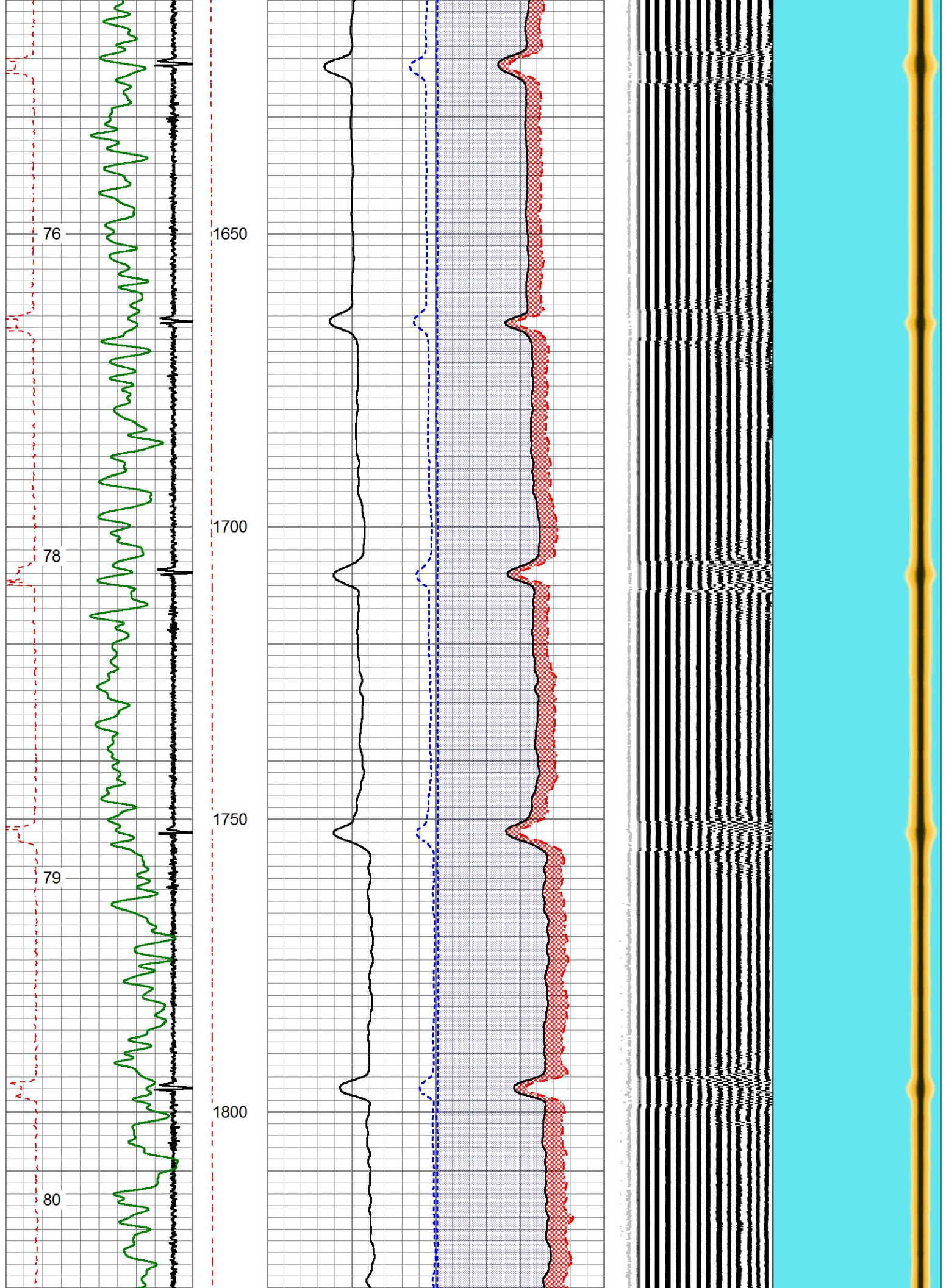
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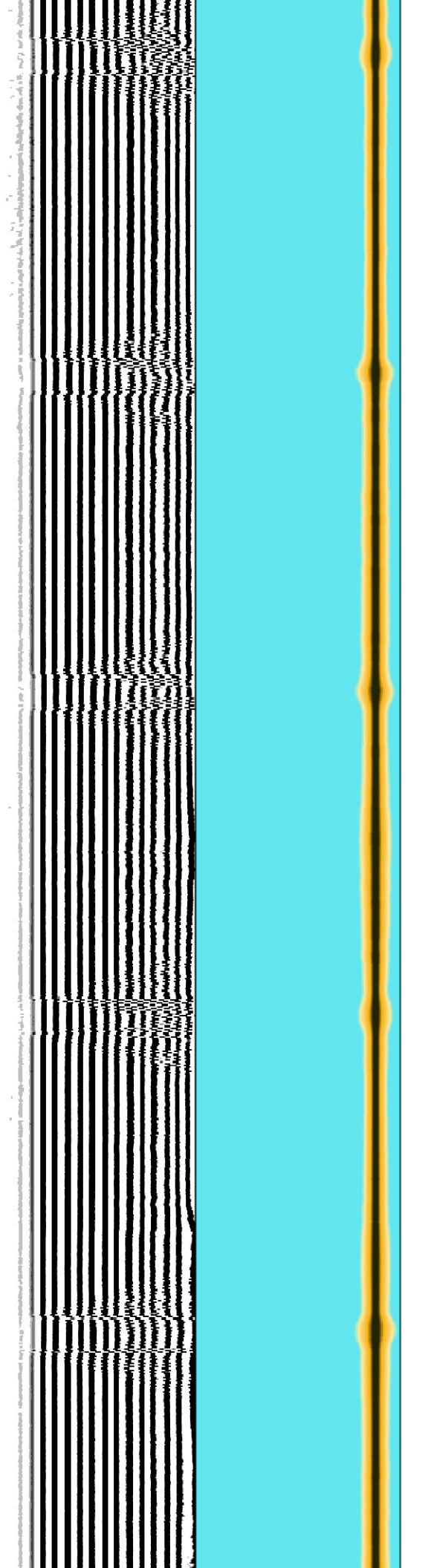
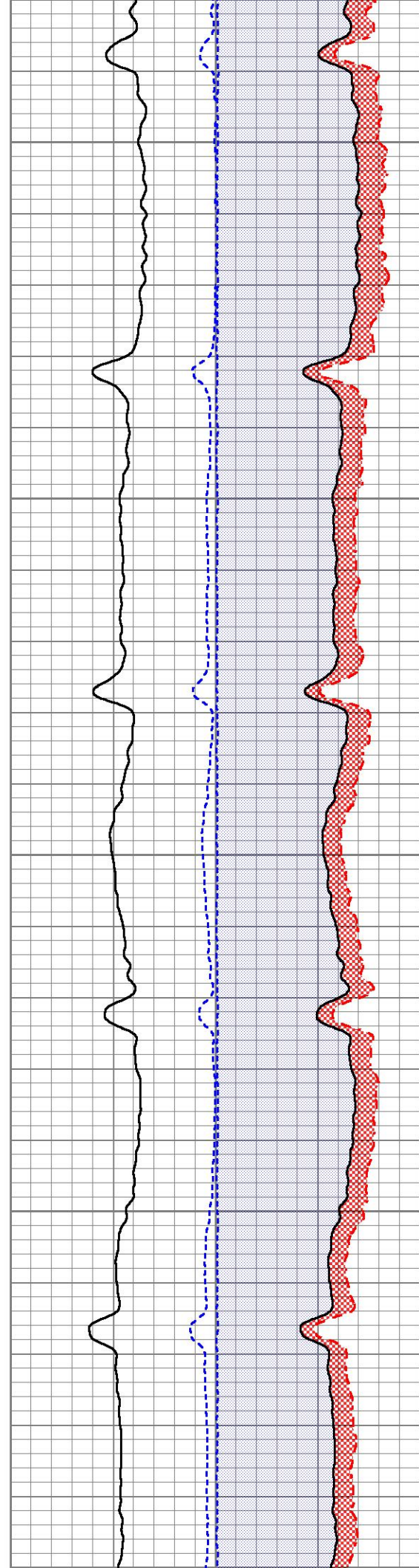
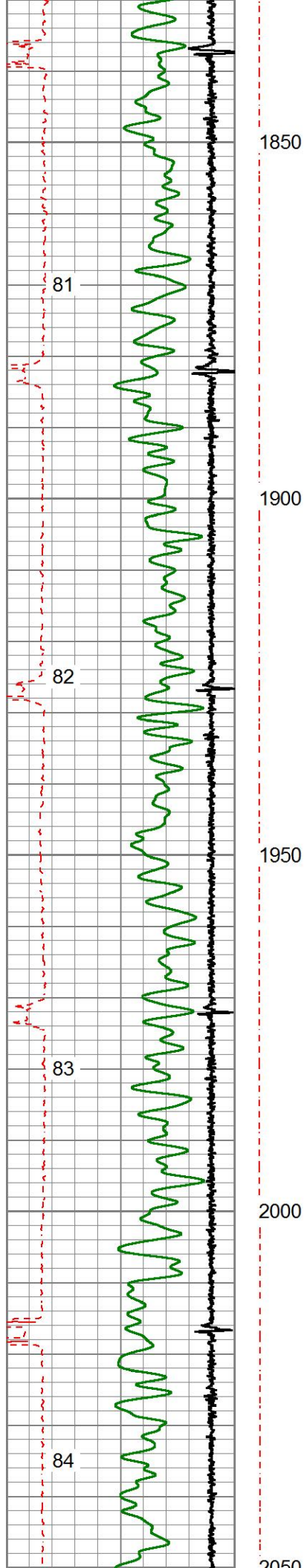
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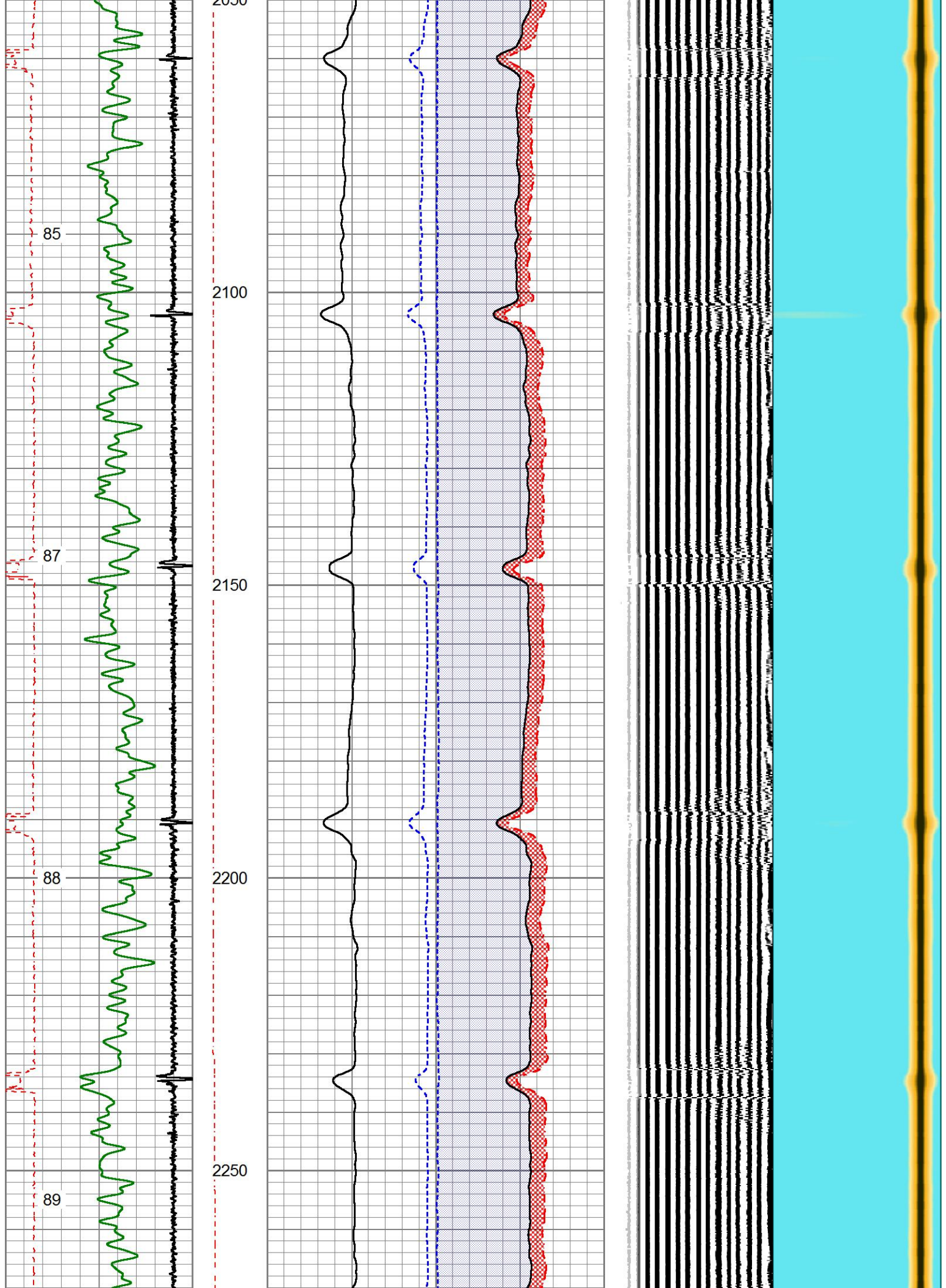
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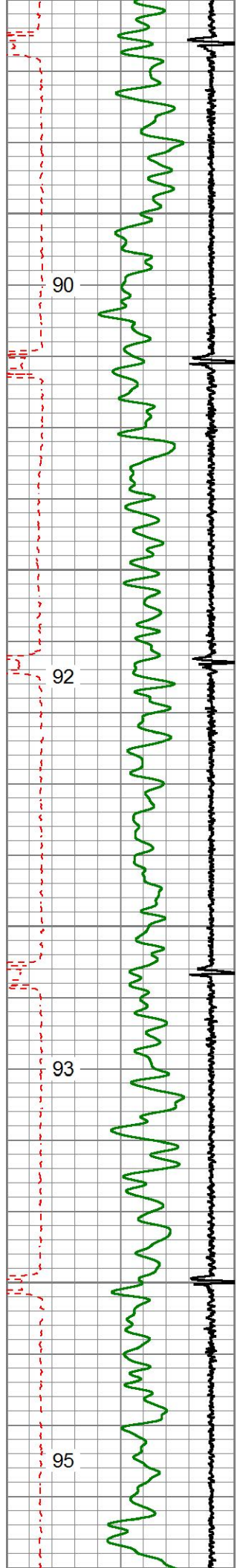
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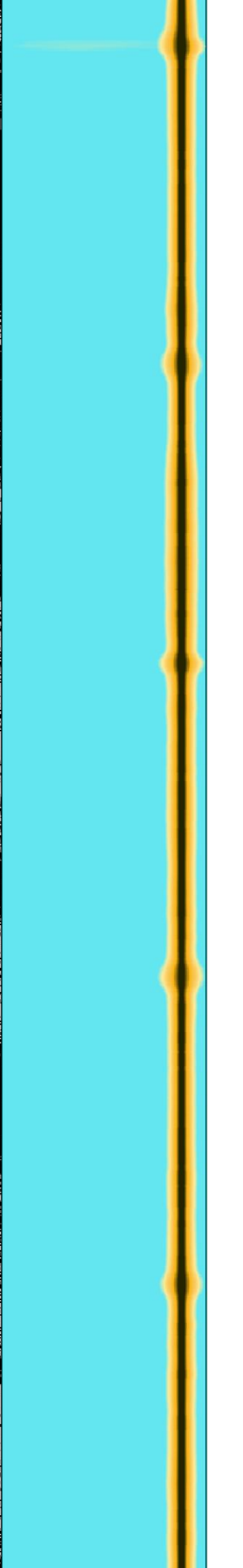
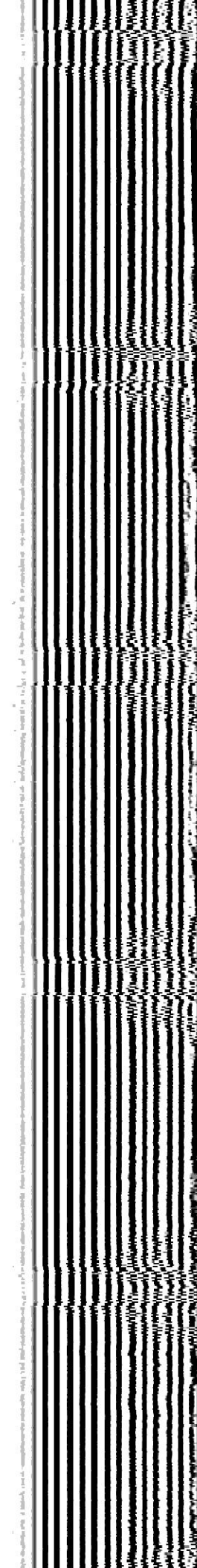
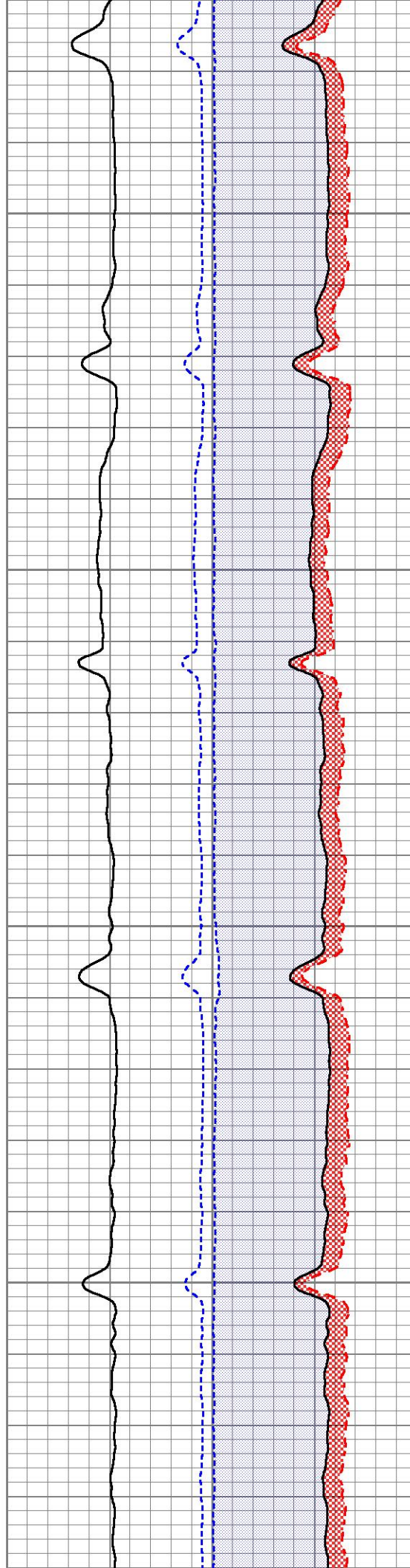


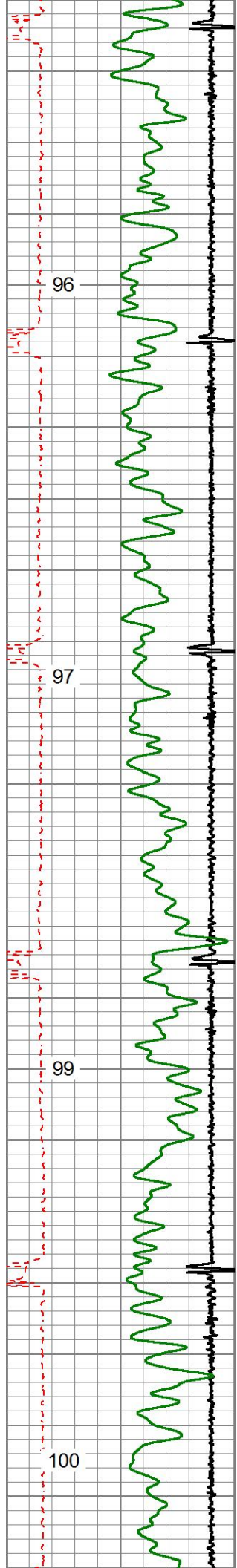
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2350

2400

2450





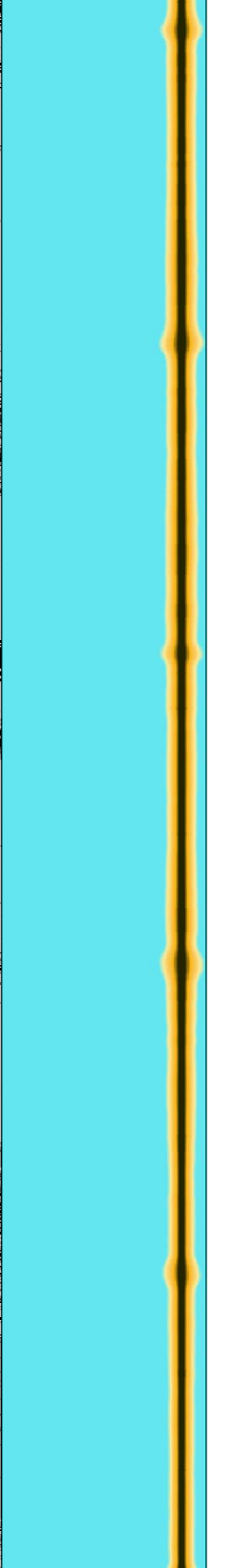
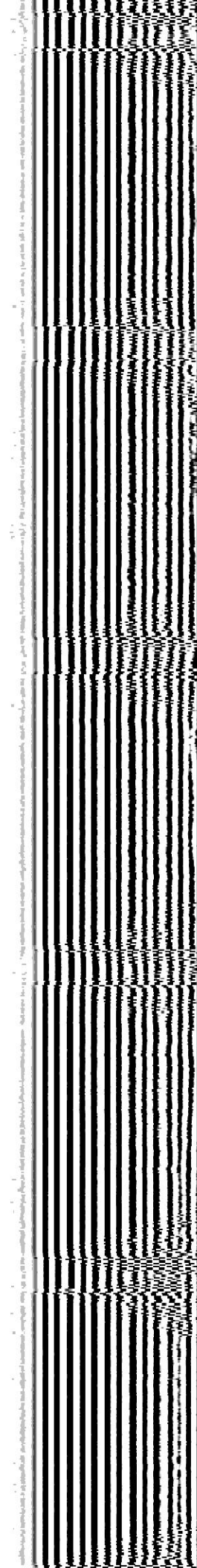
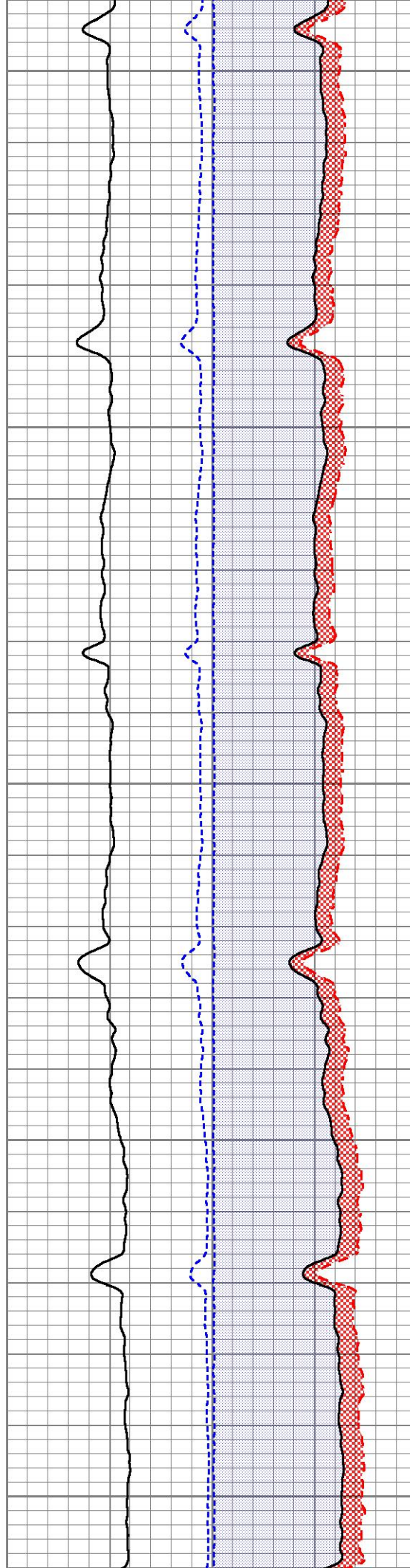
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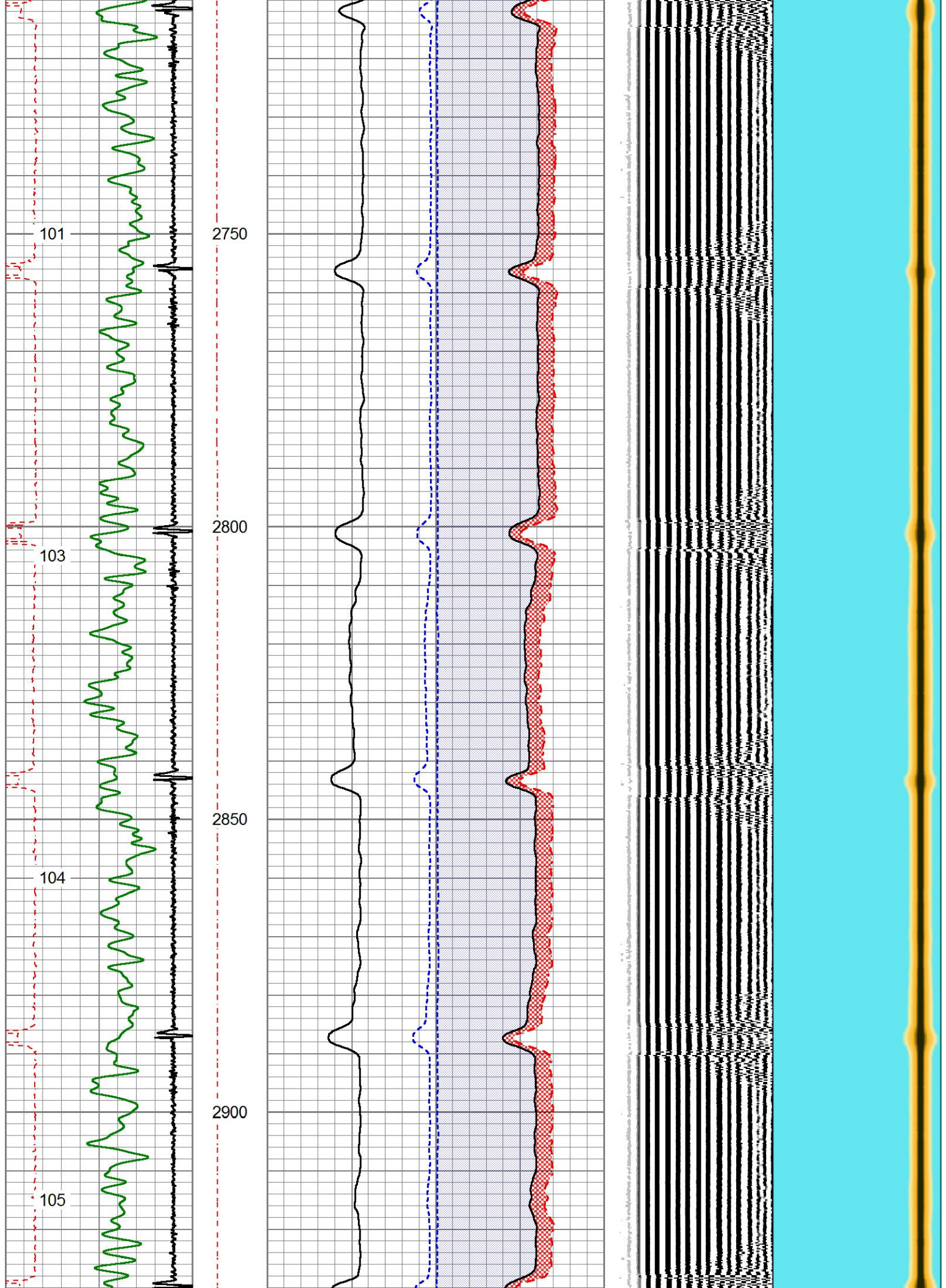
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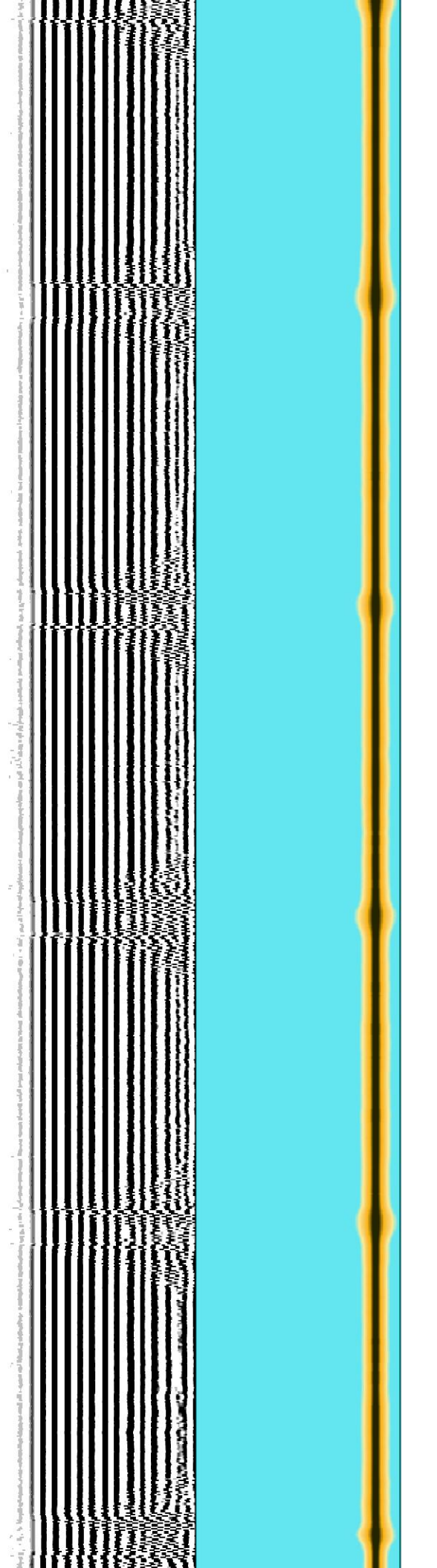
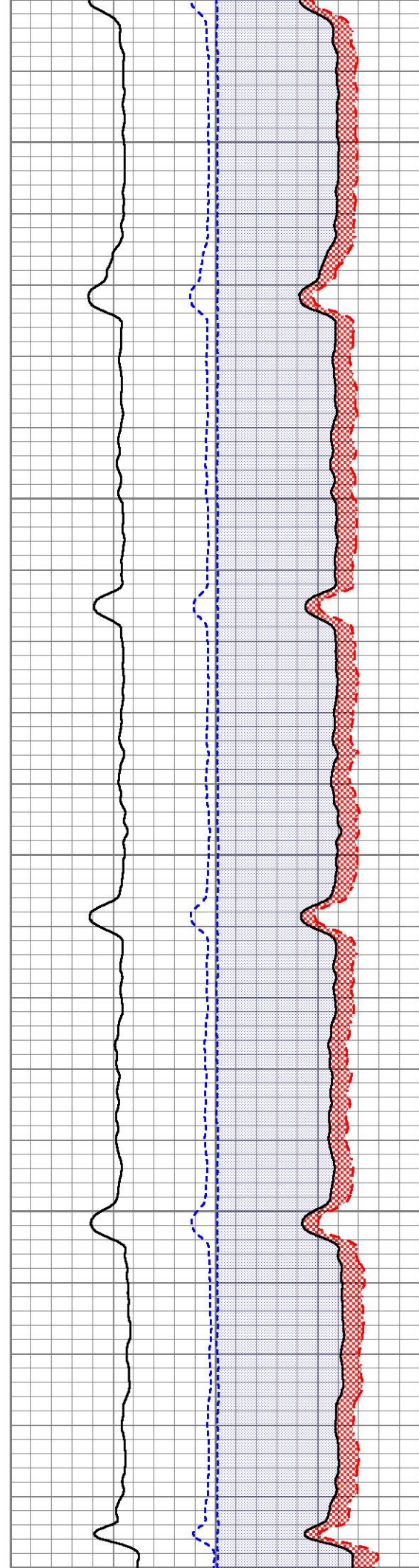
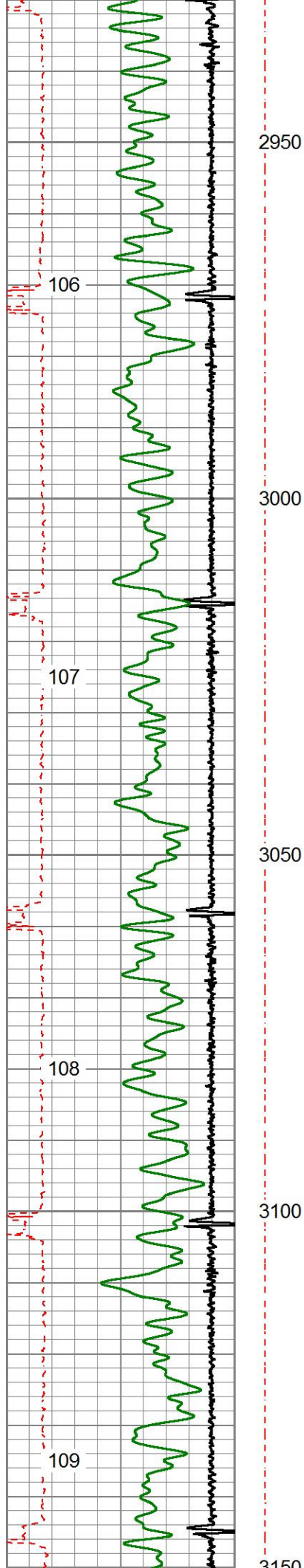
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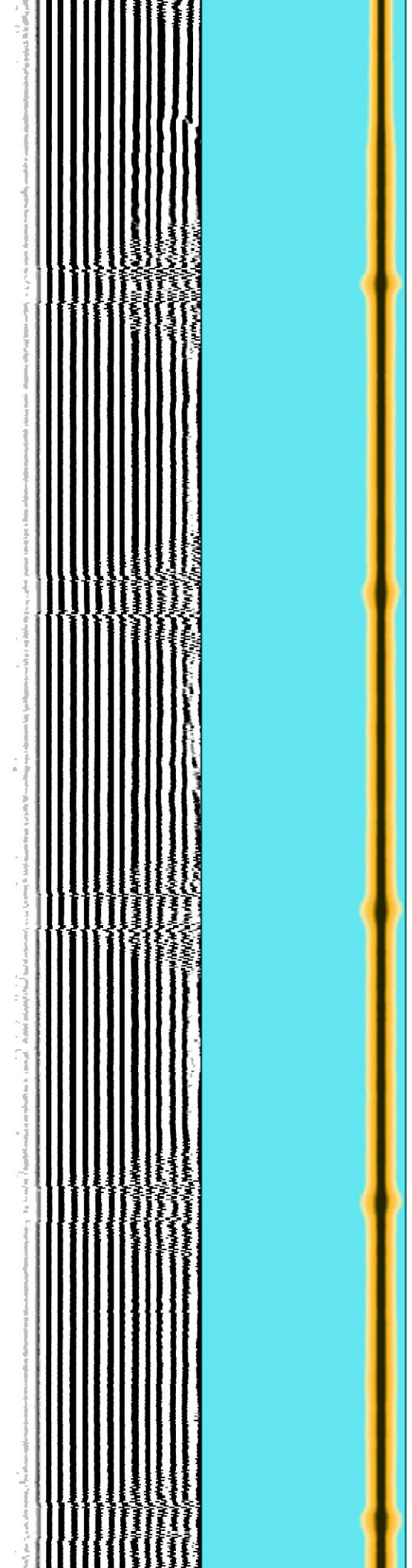
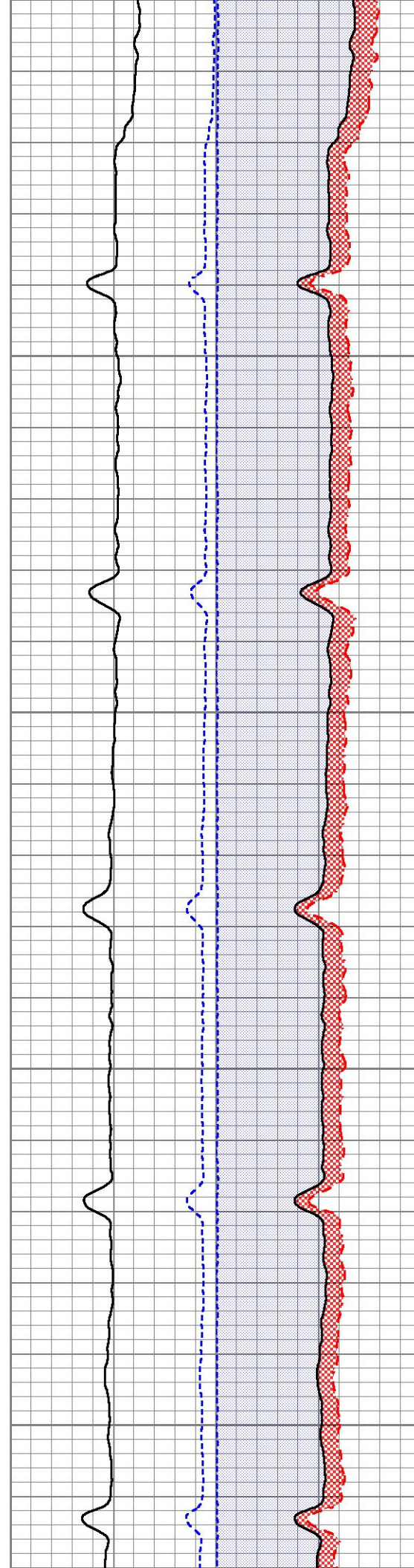
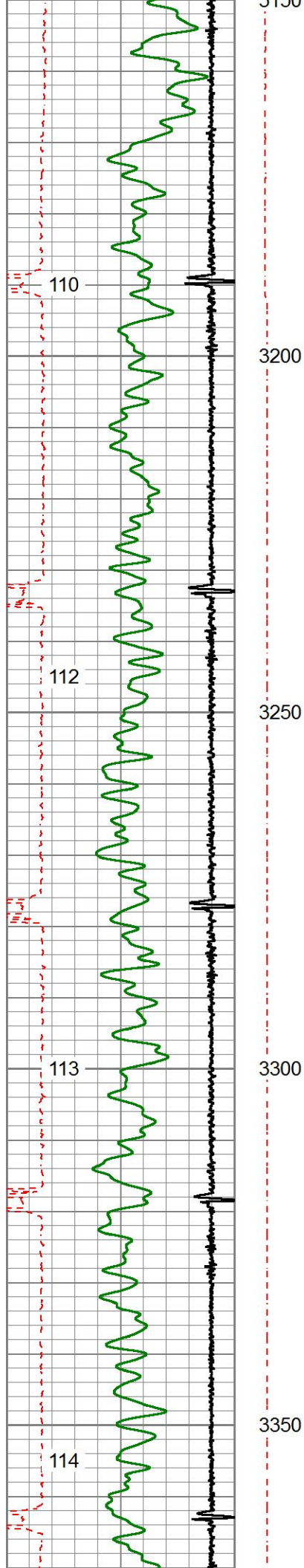
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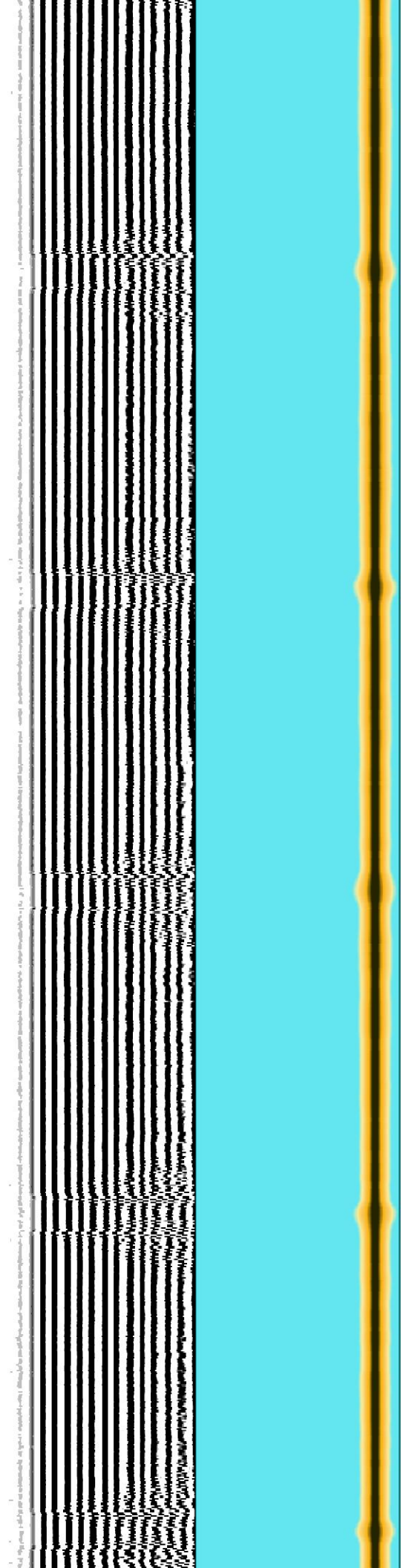
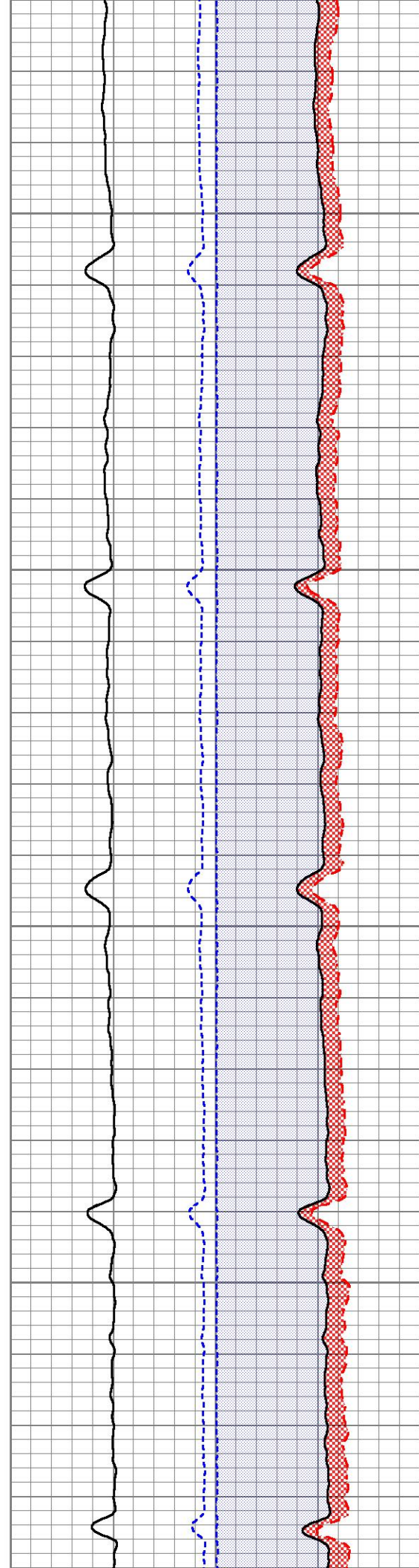
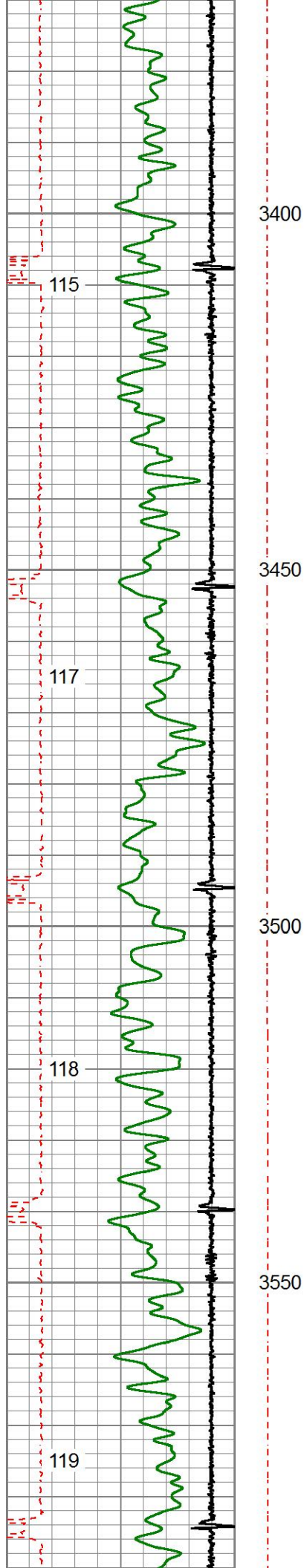
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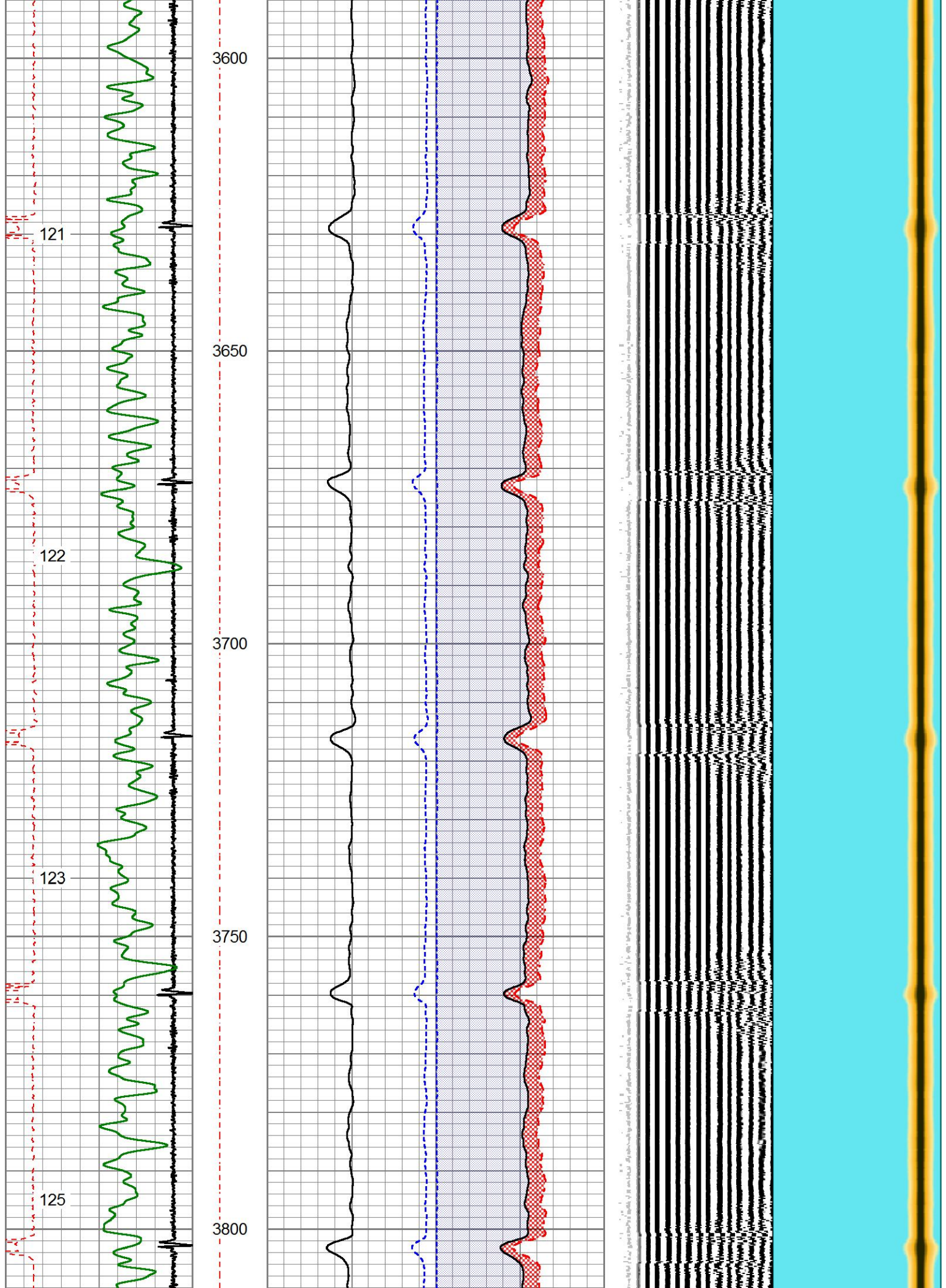


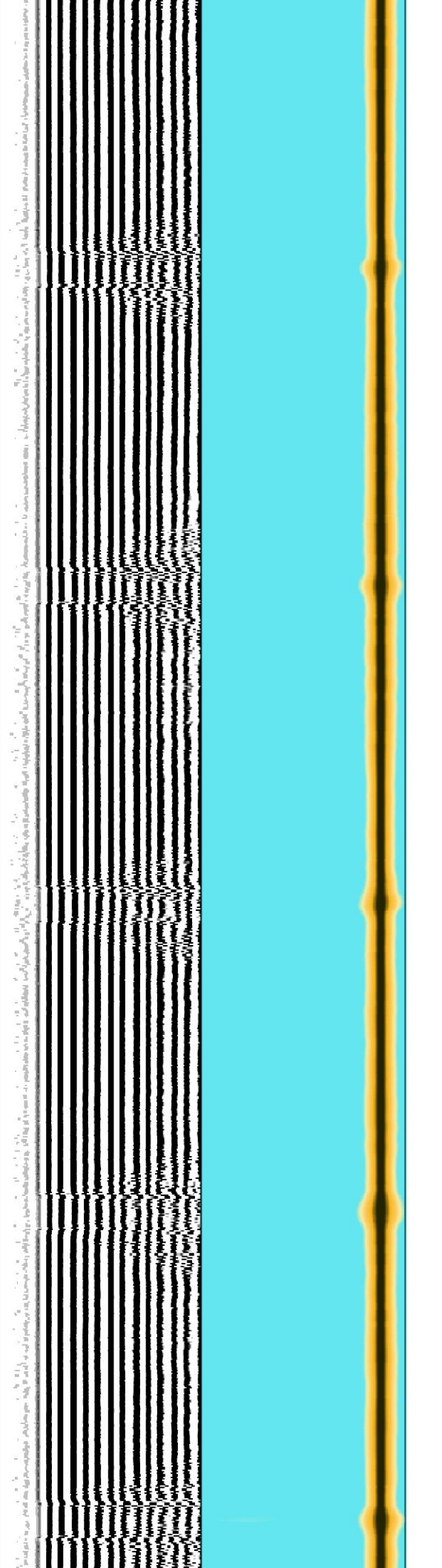
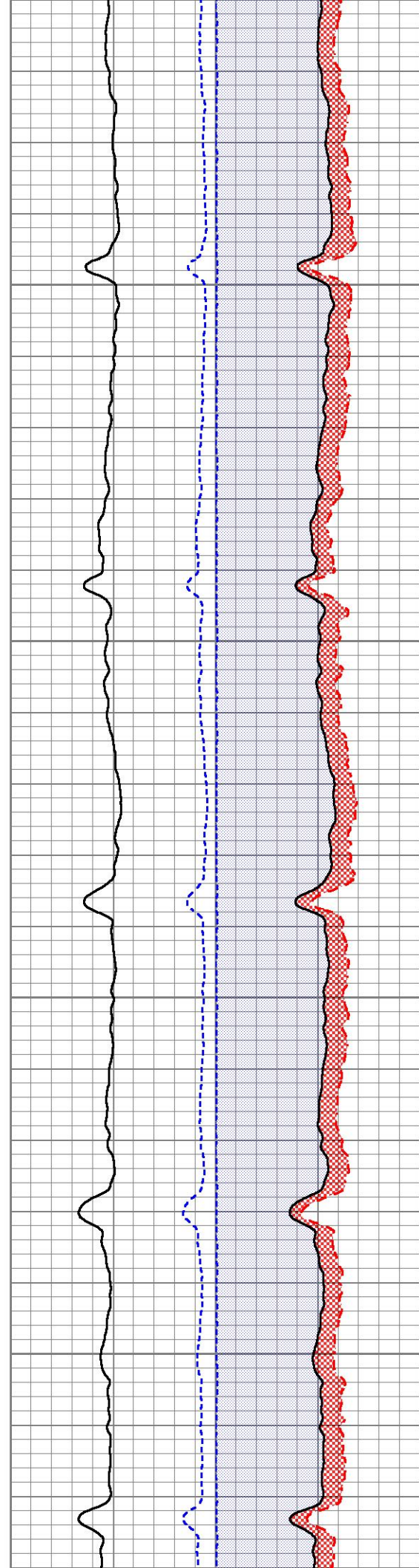
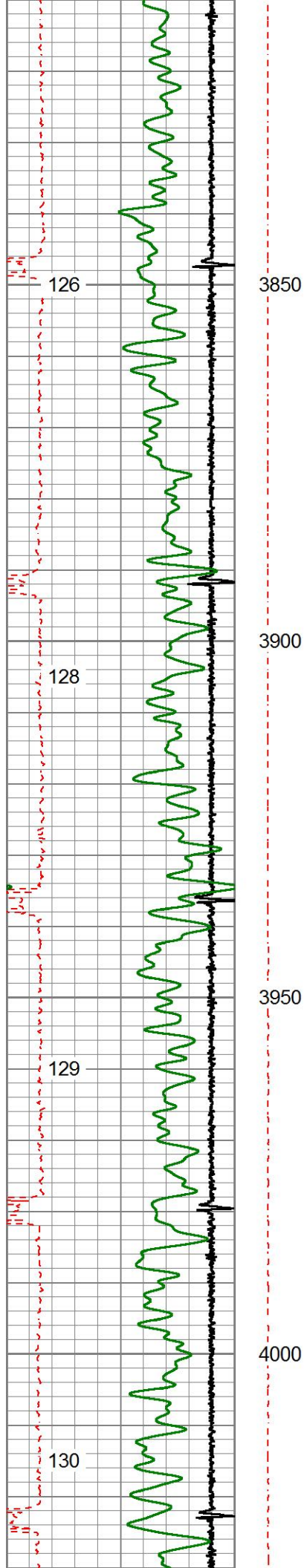


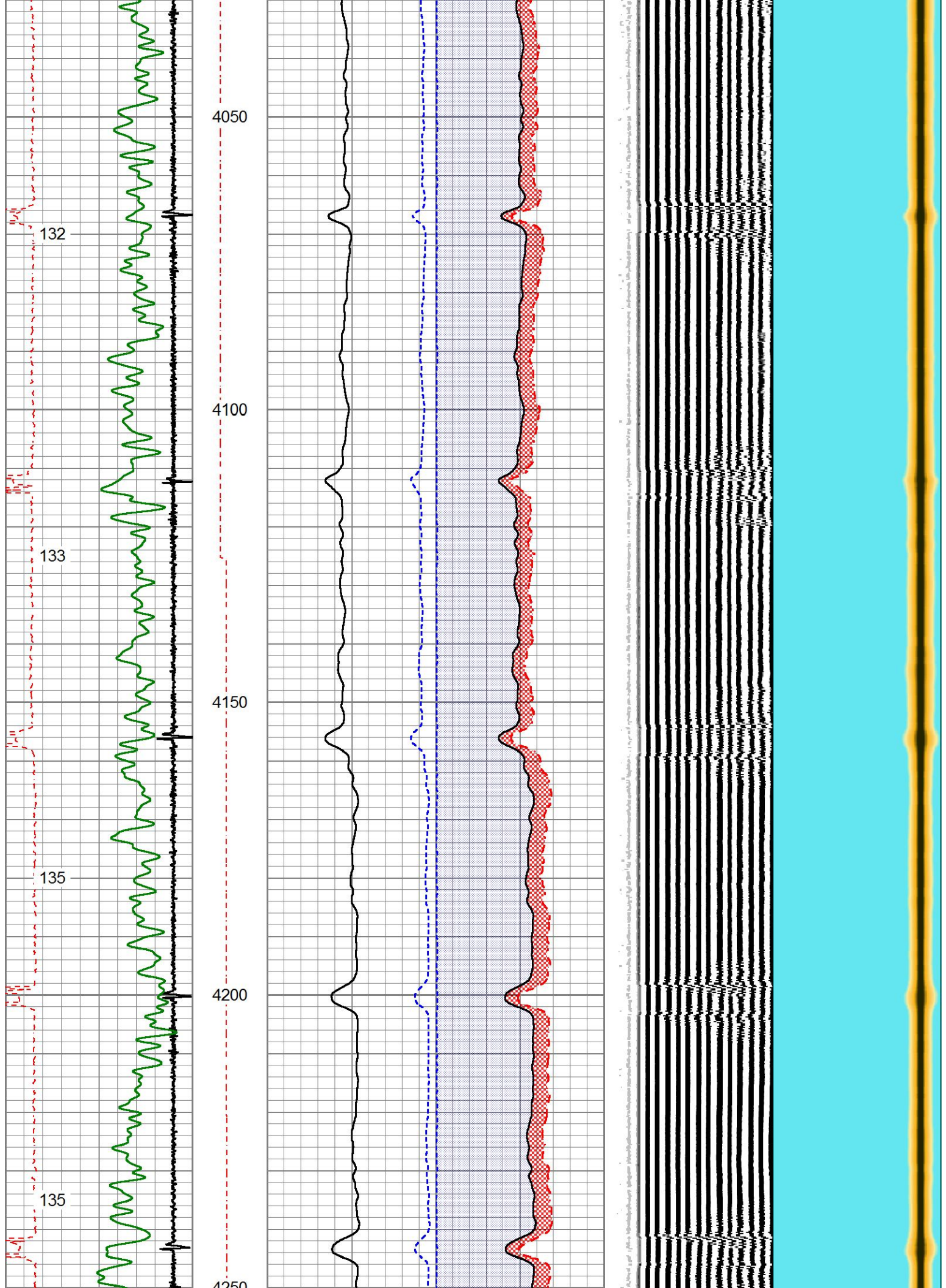


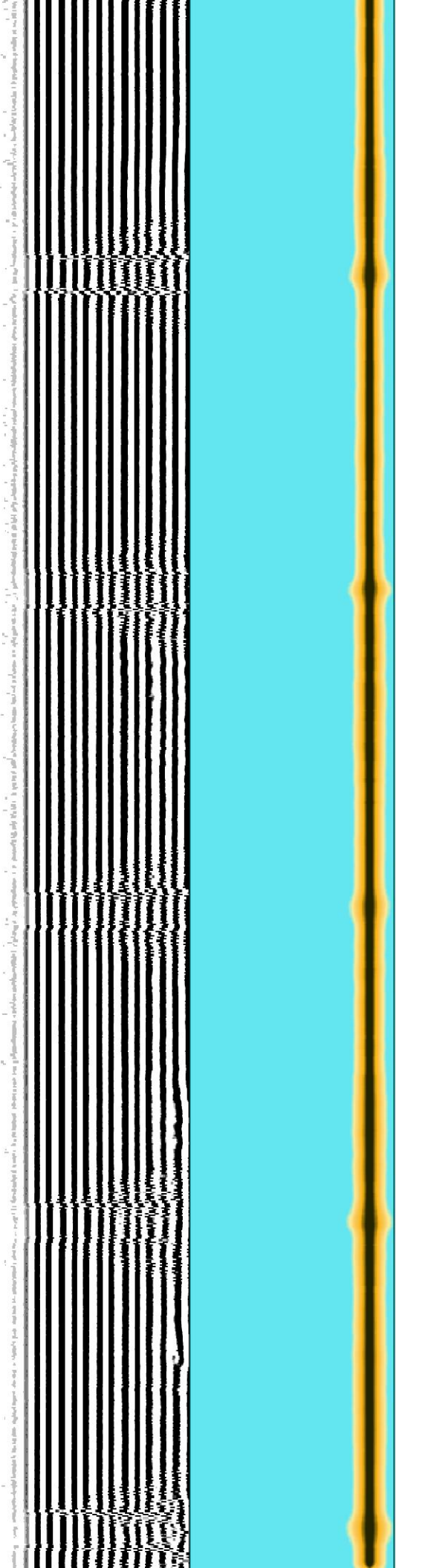
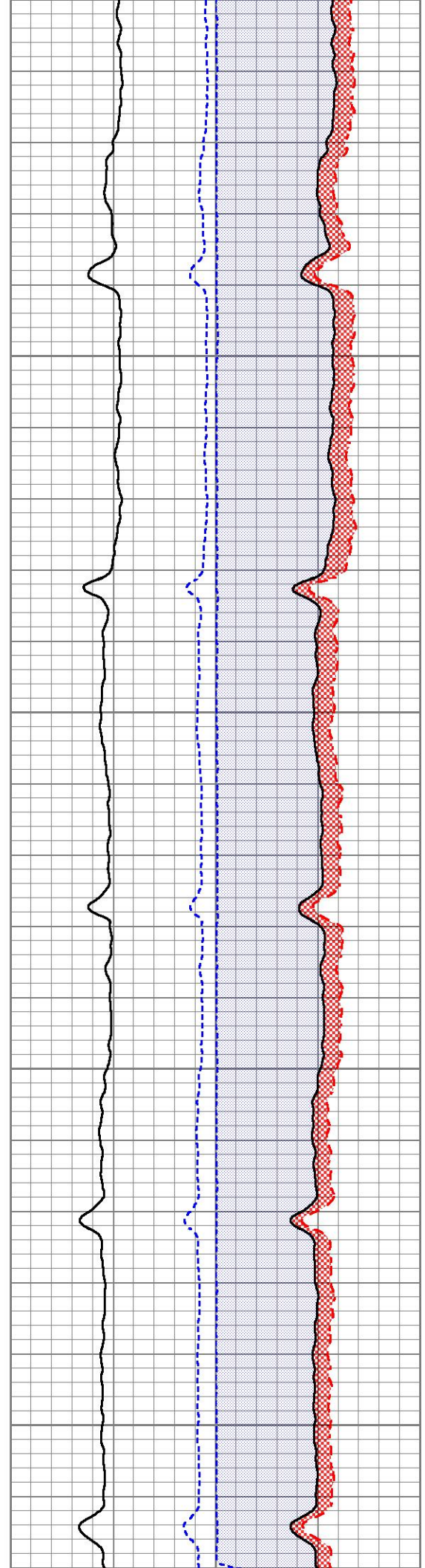
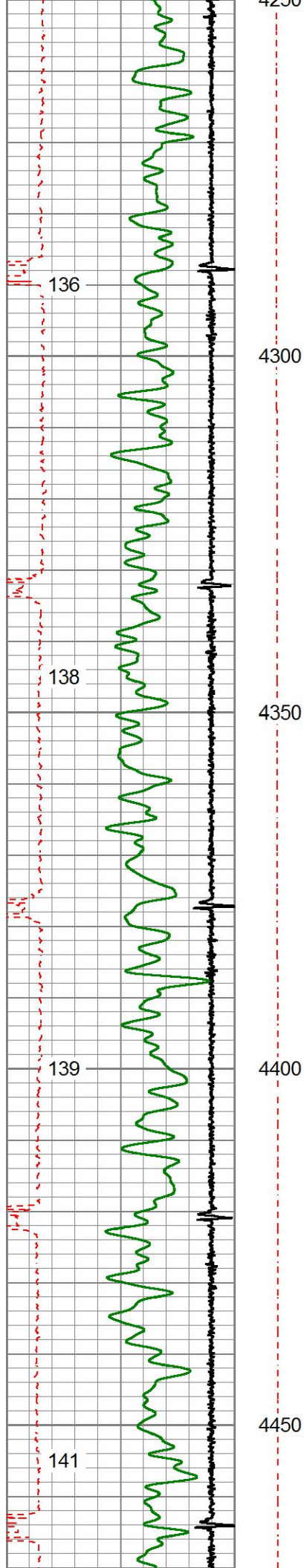


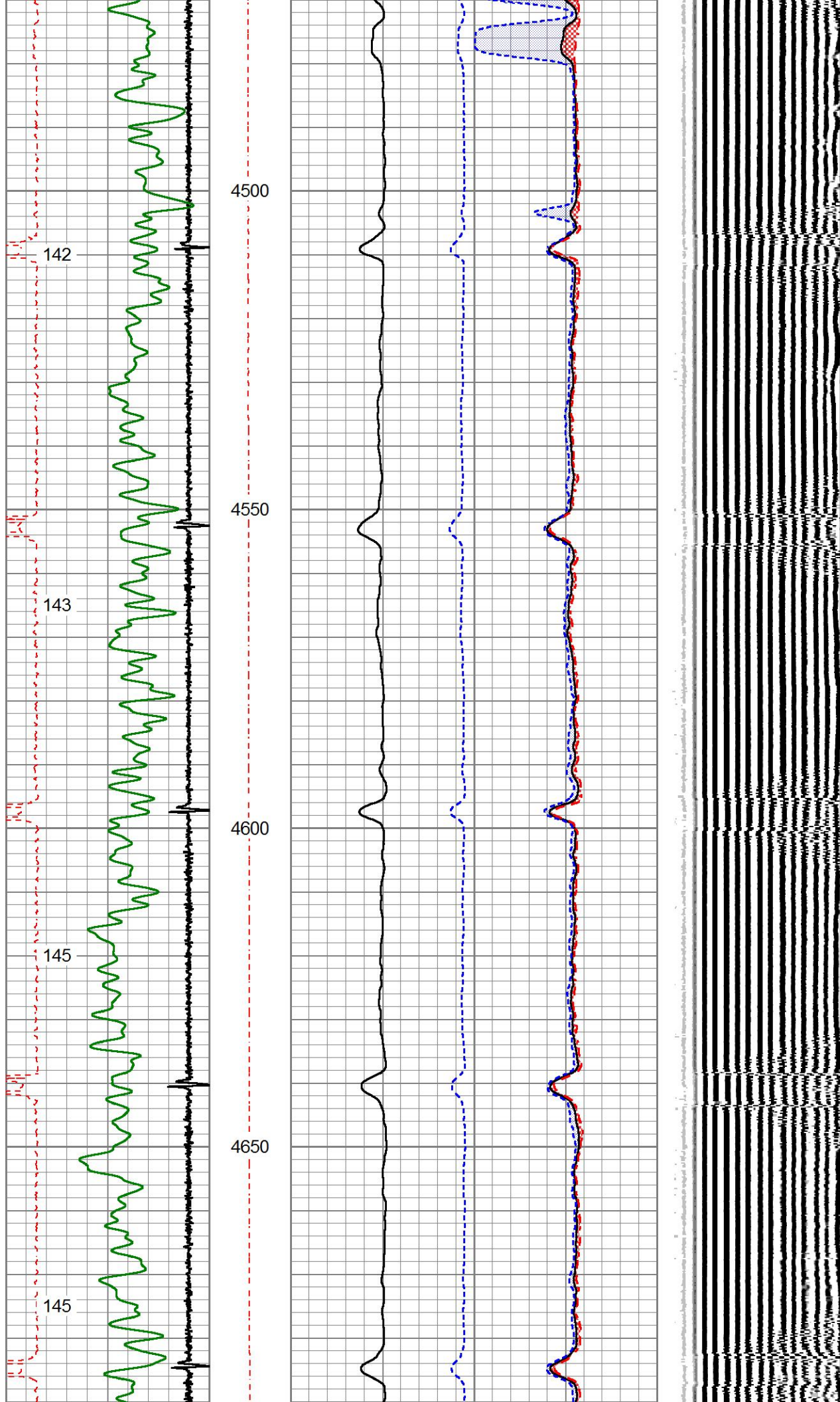


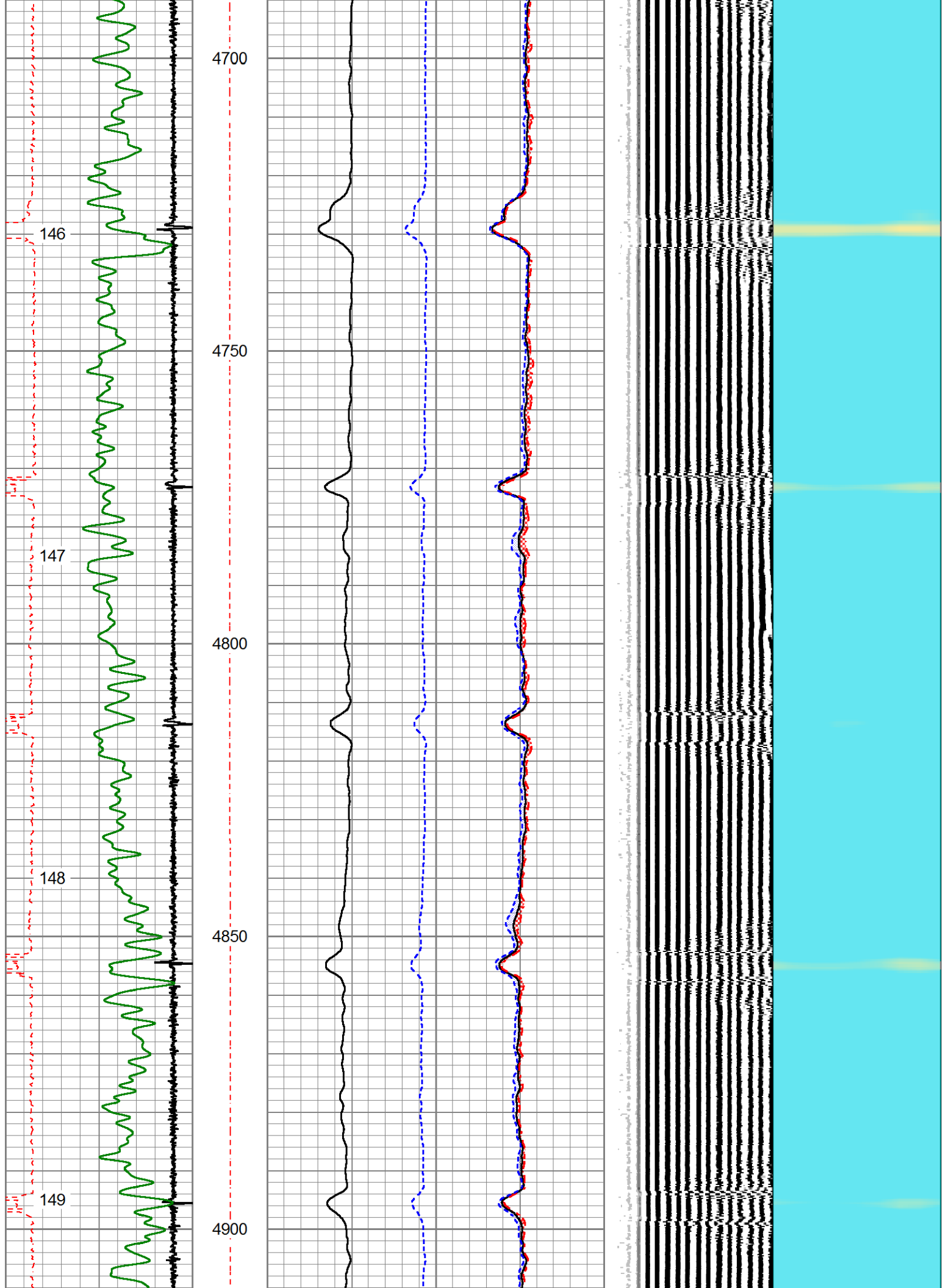


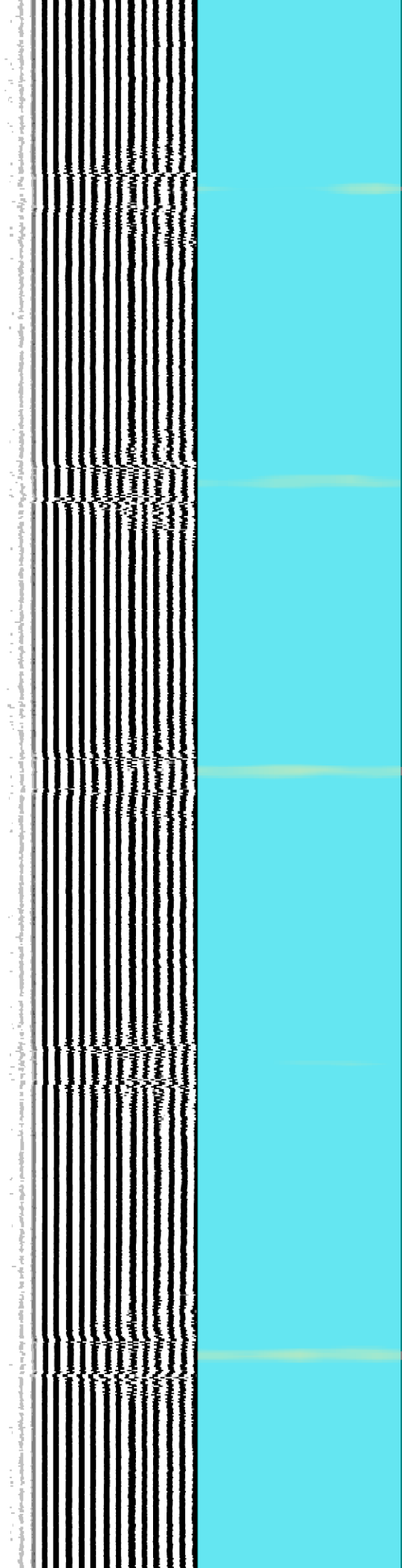
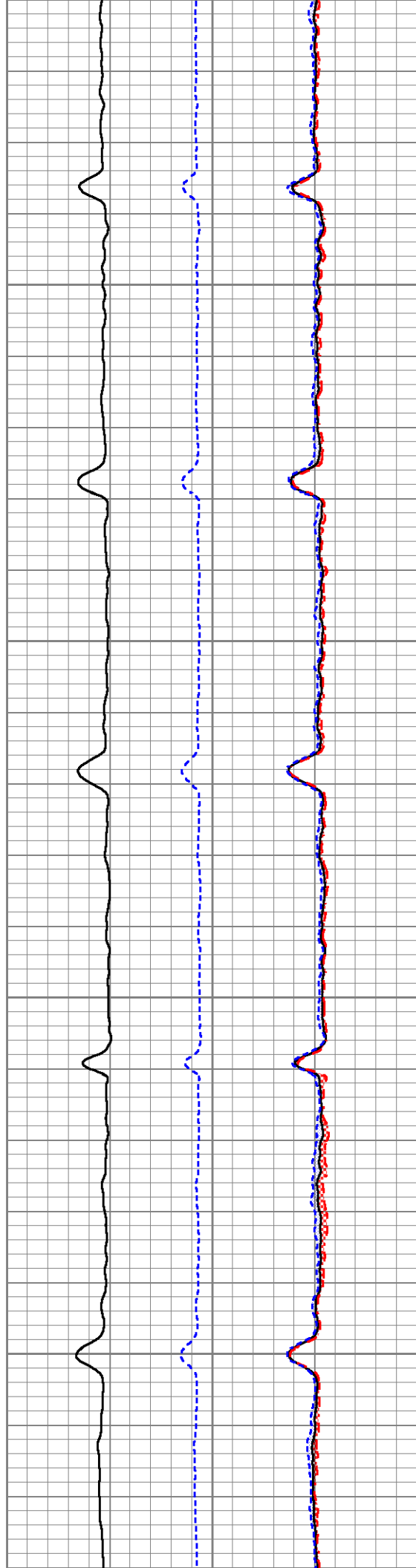
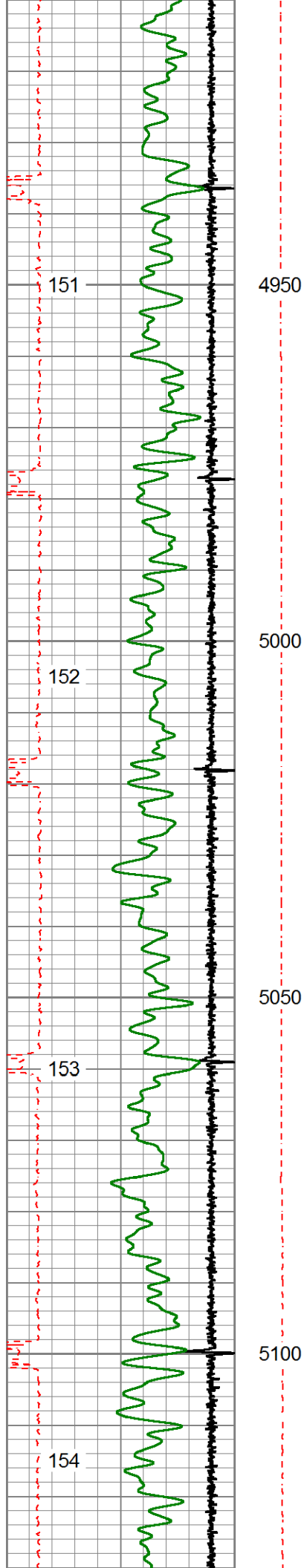


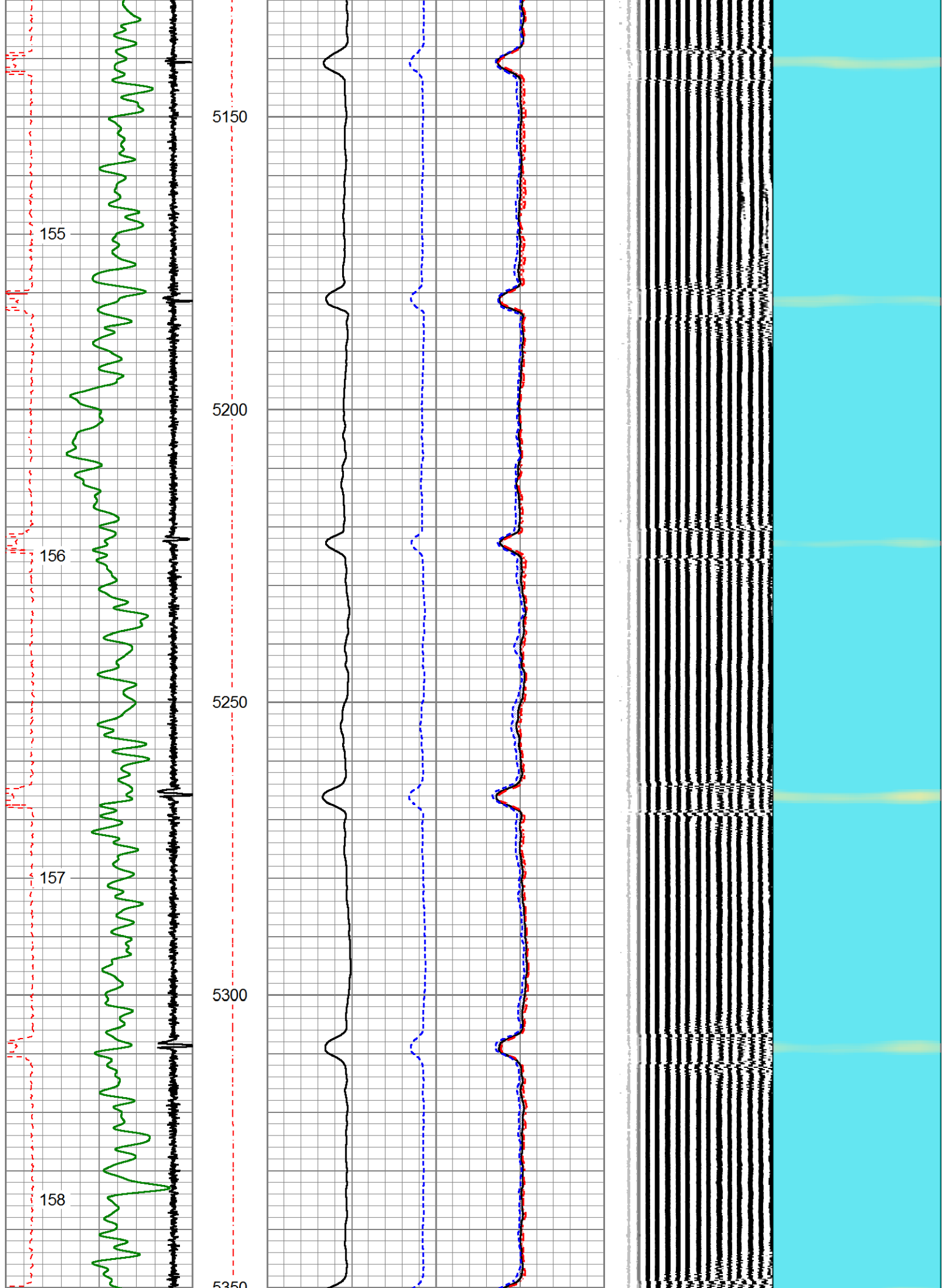


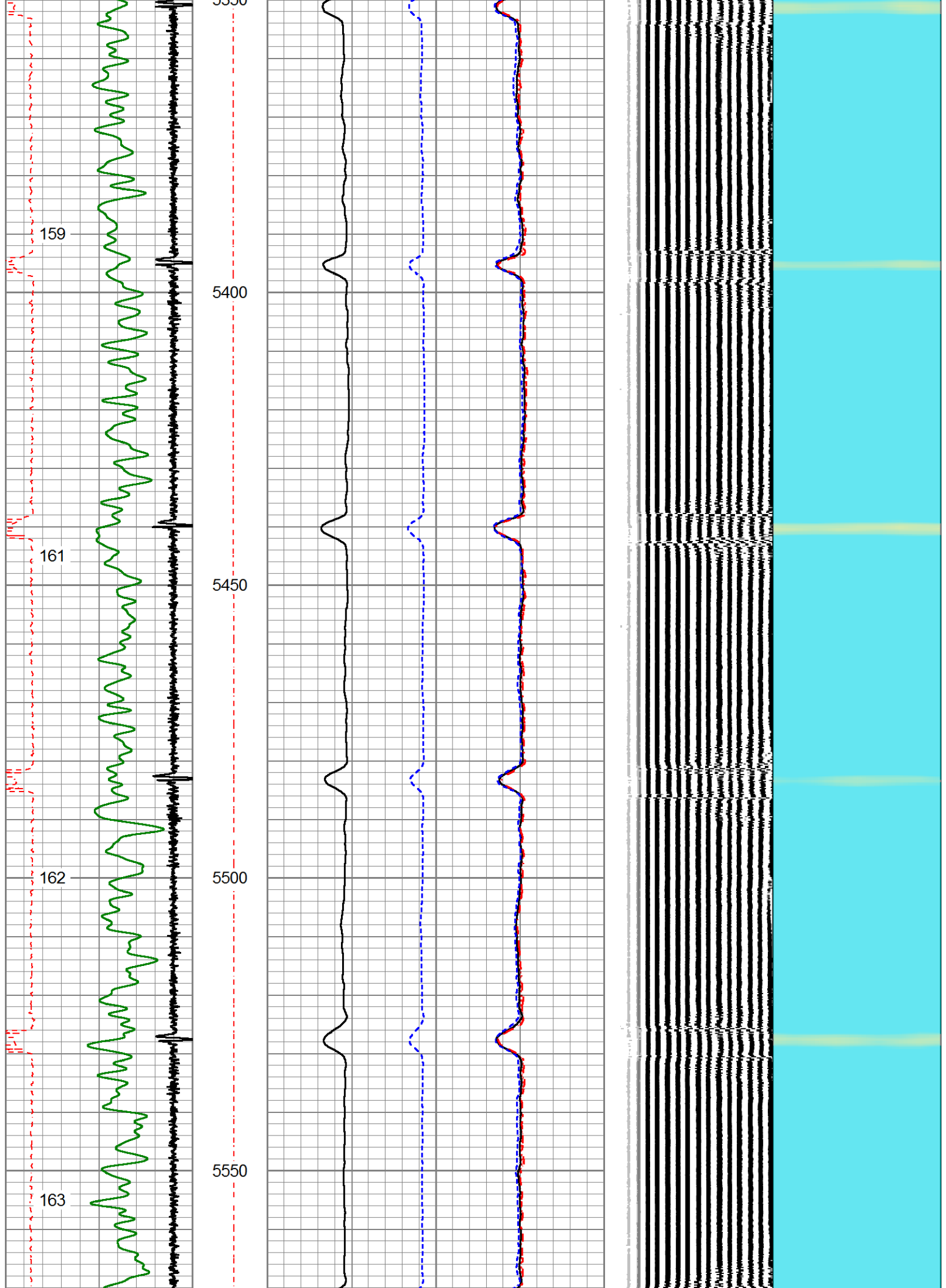


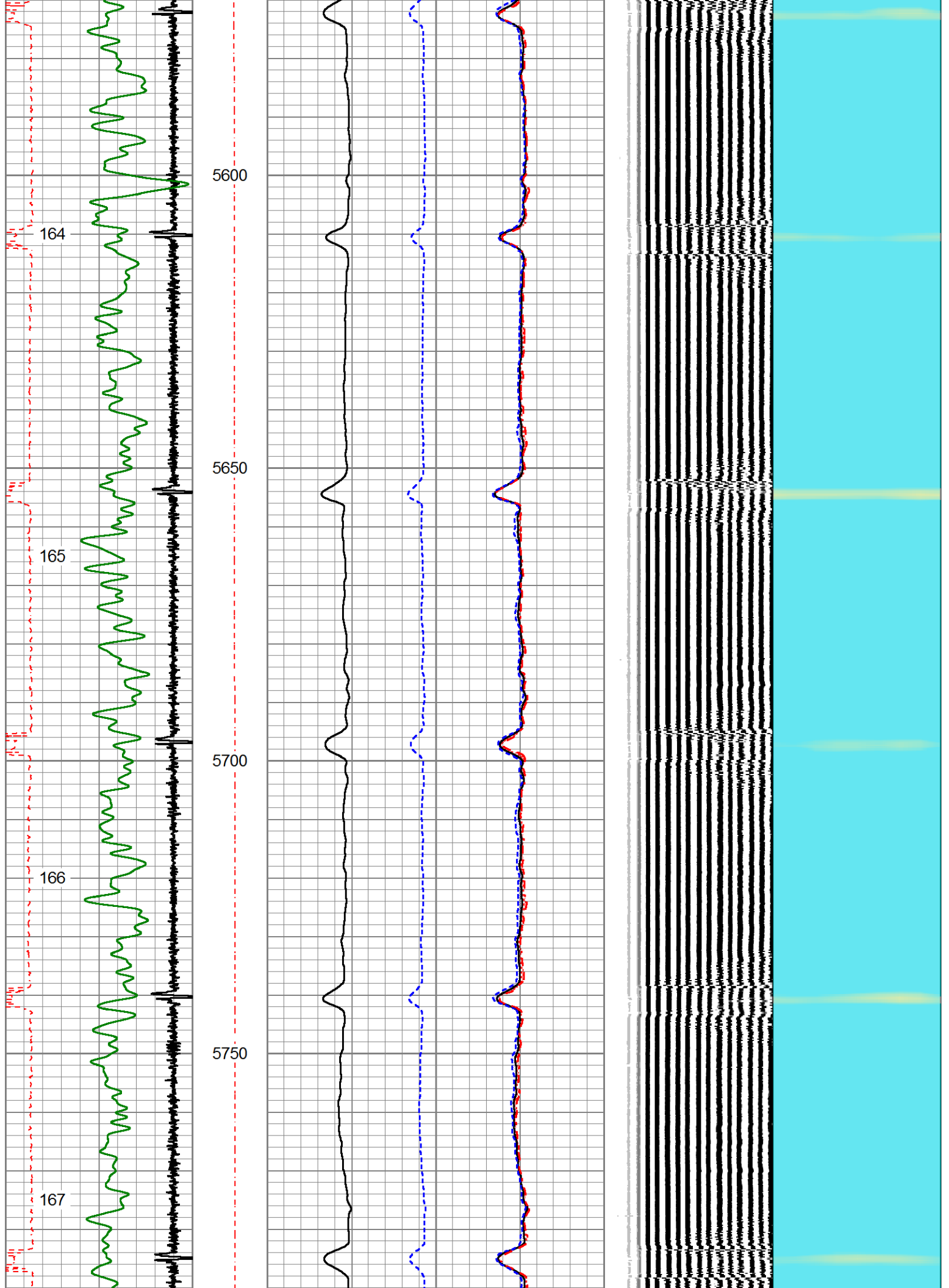


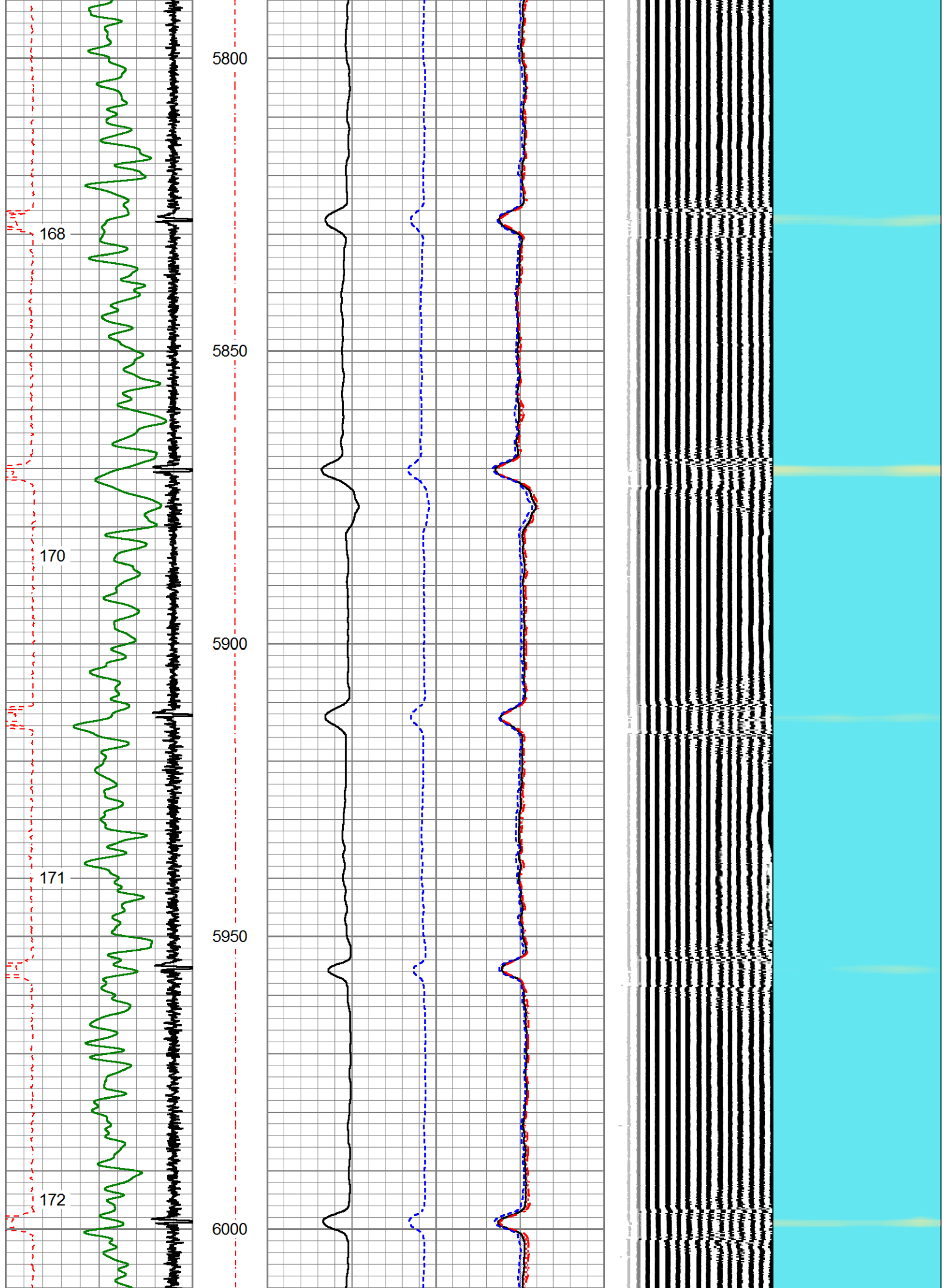


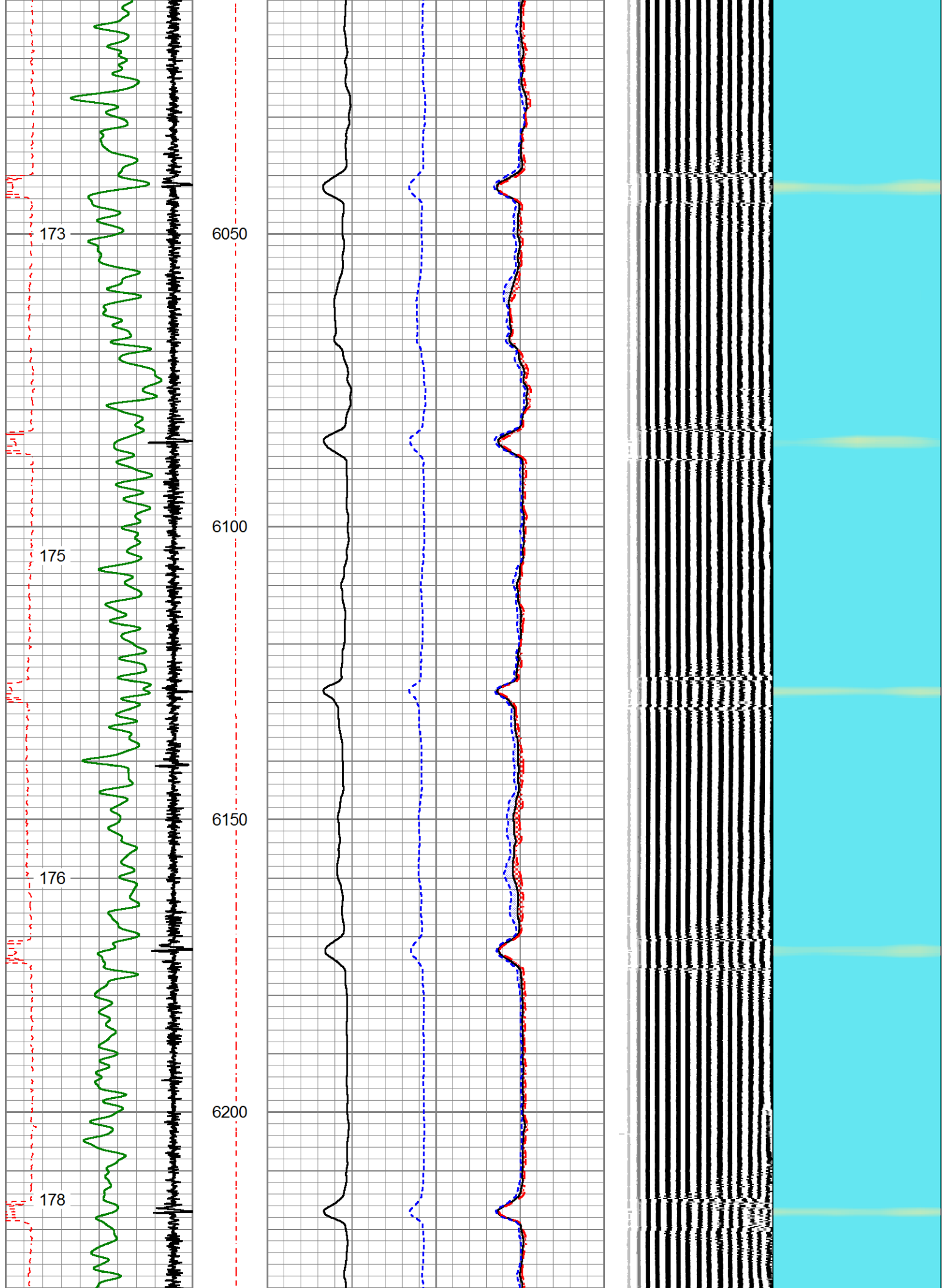


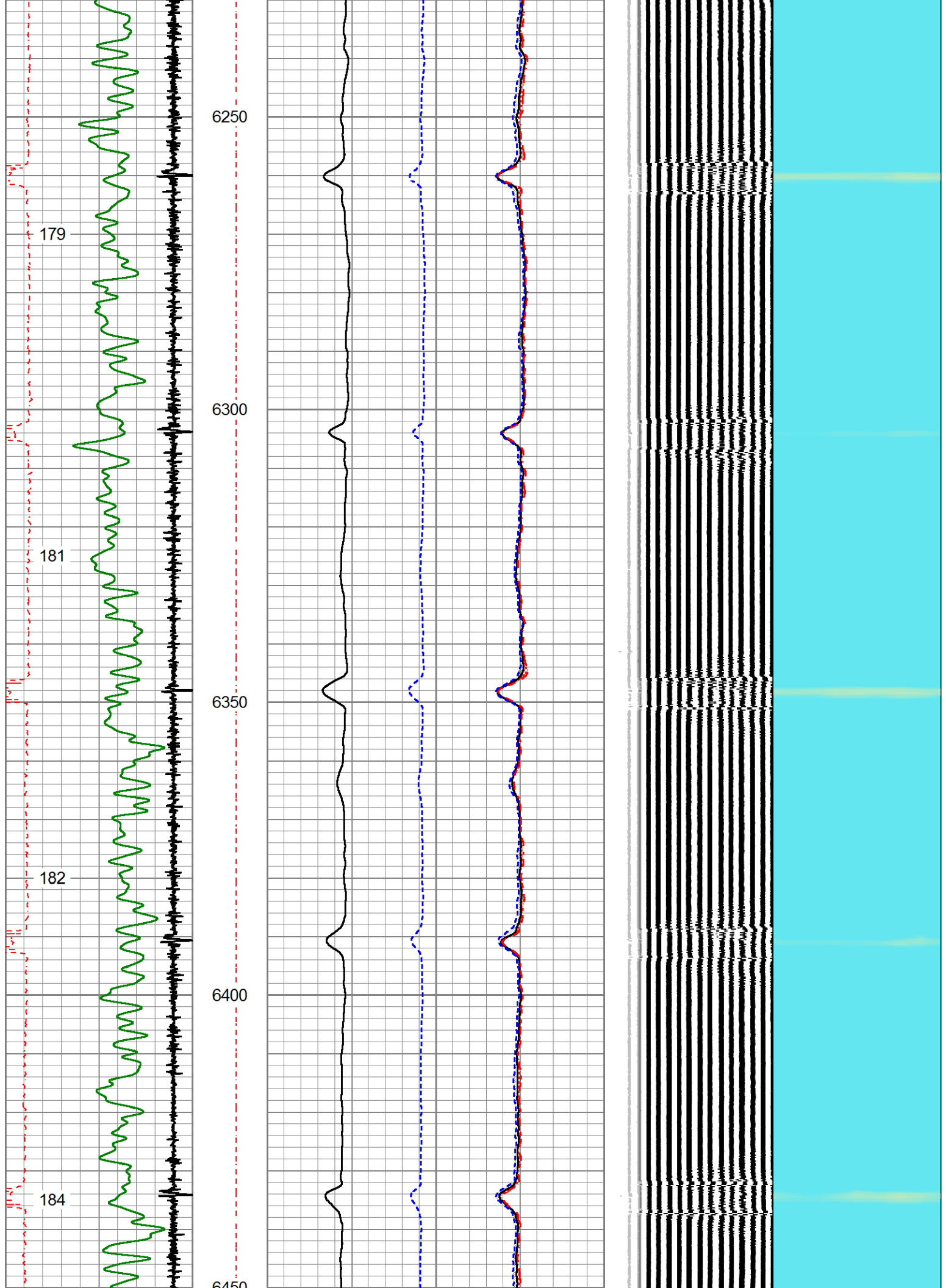


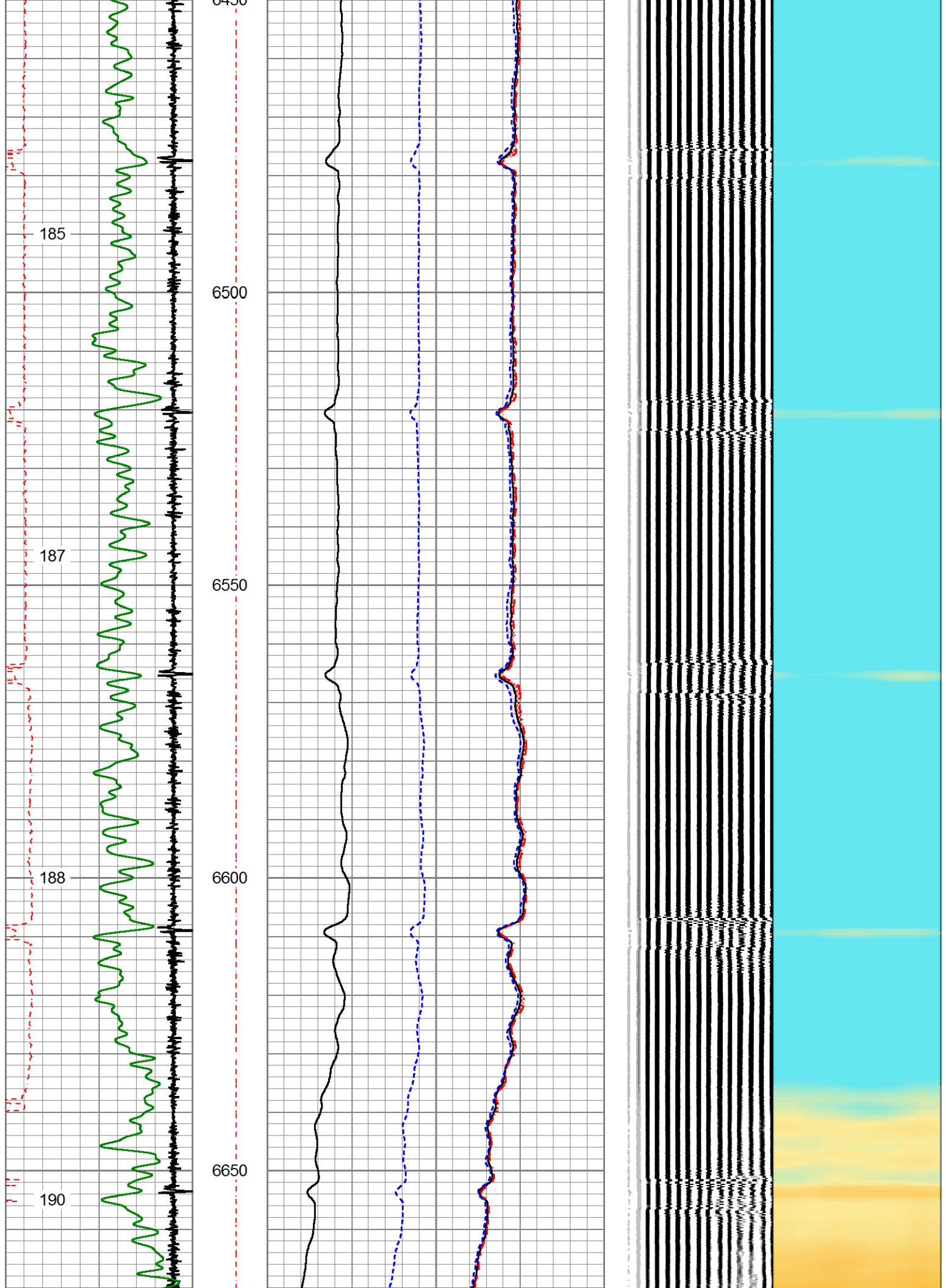


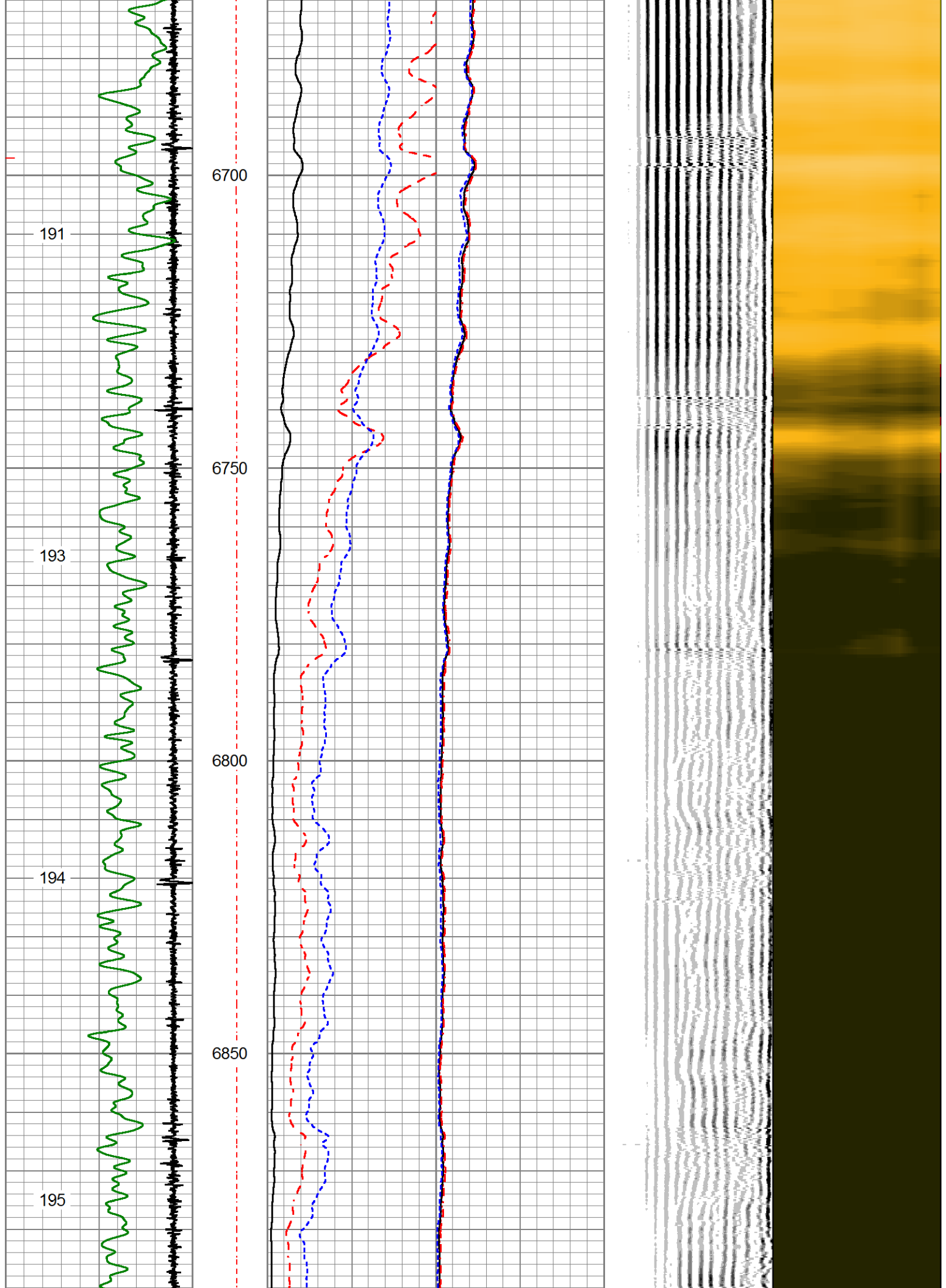


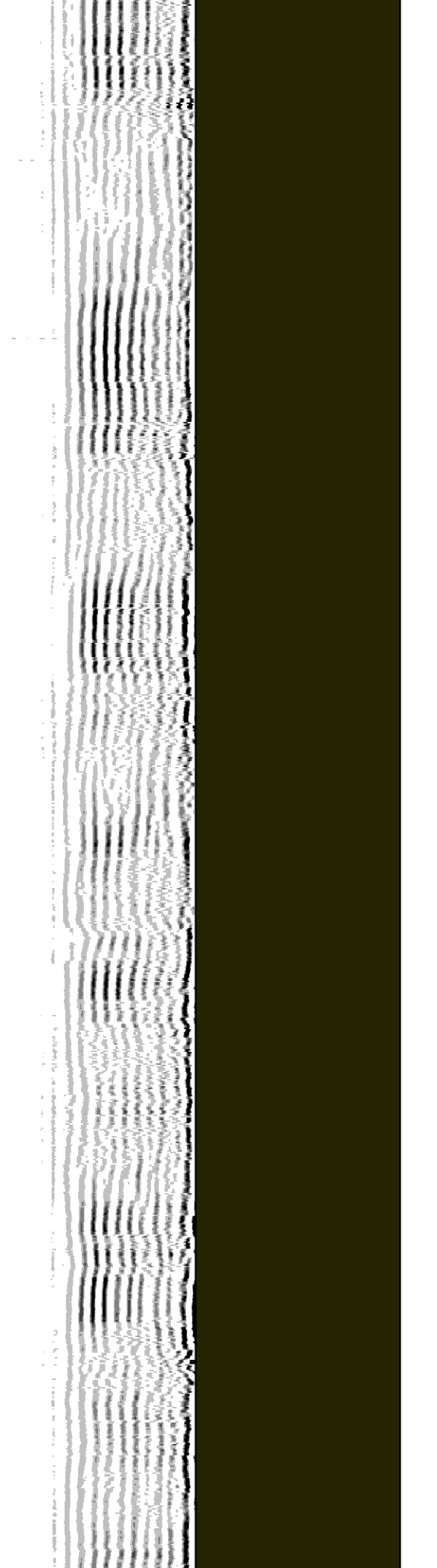
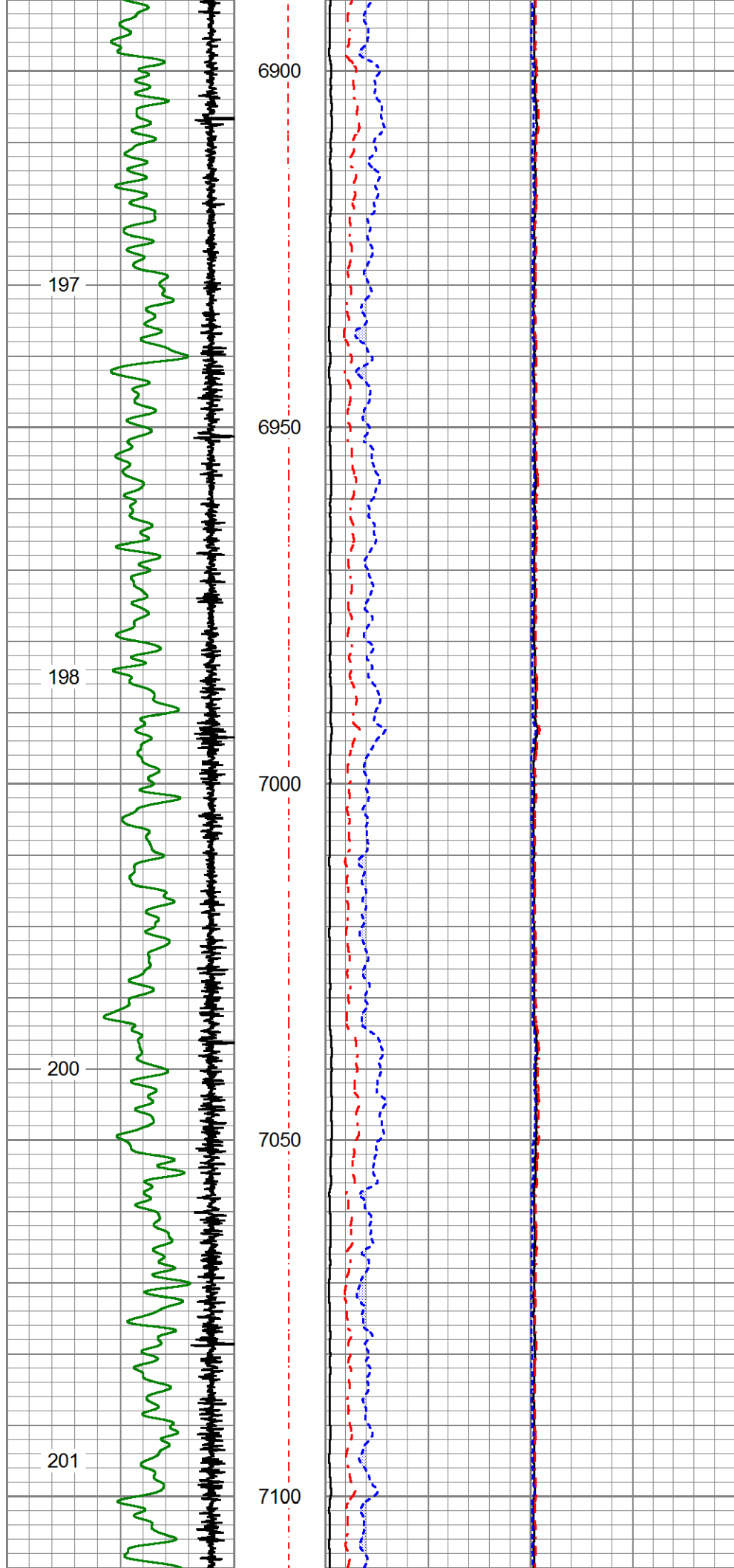


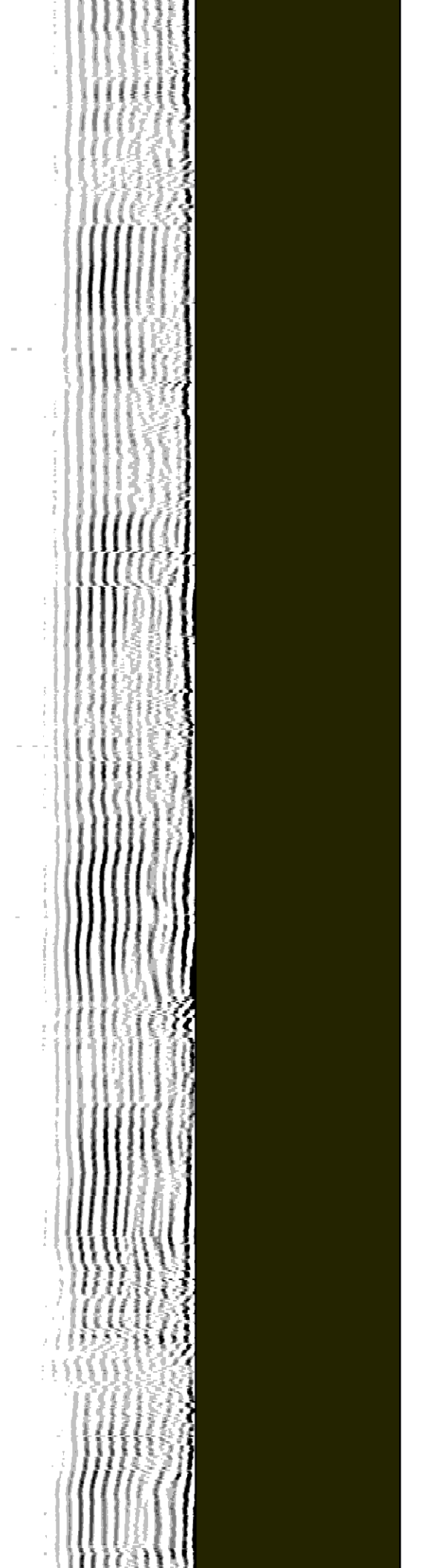
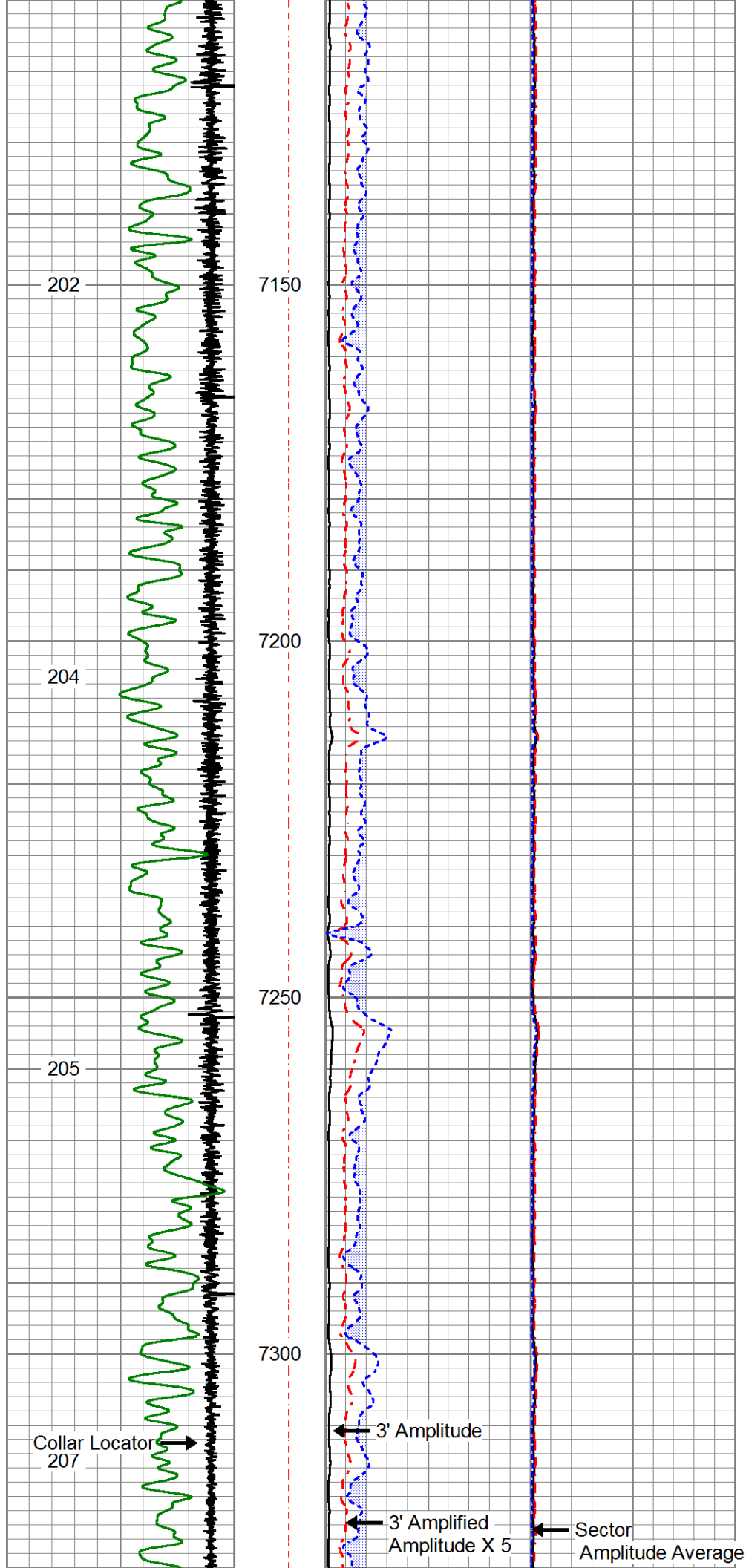


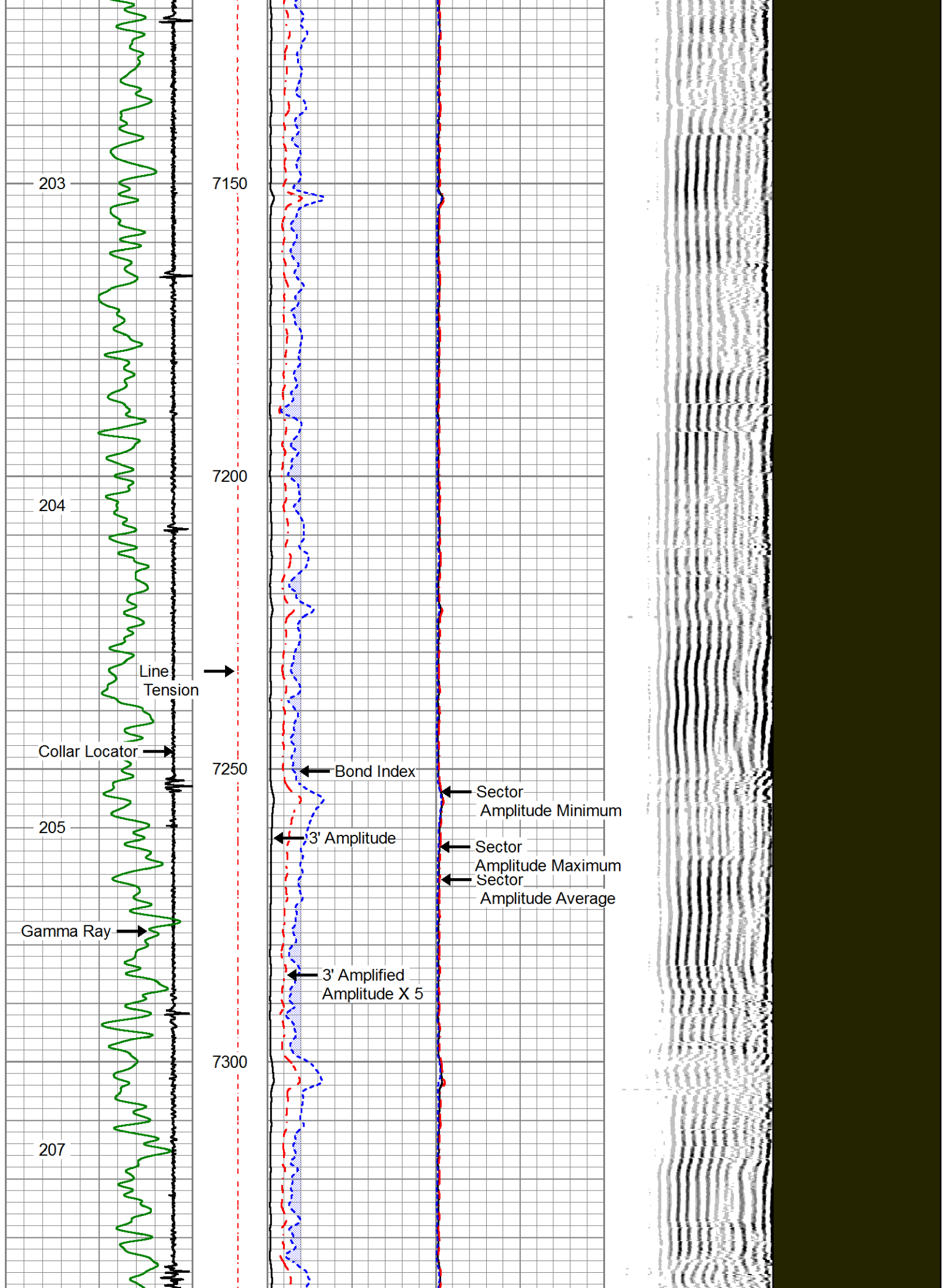


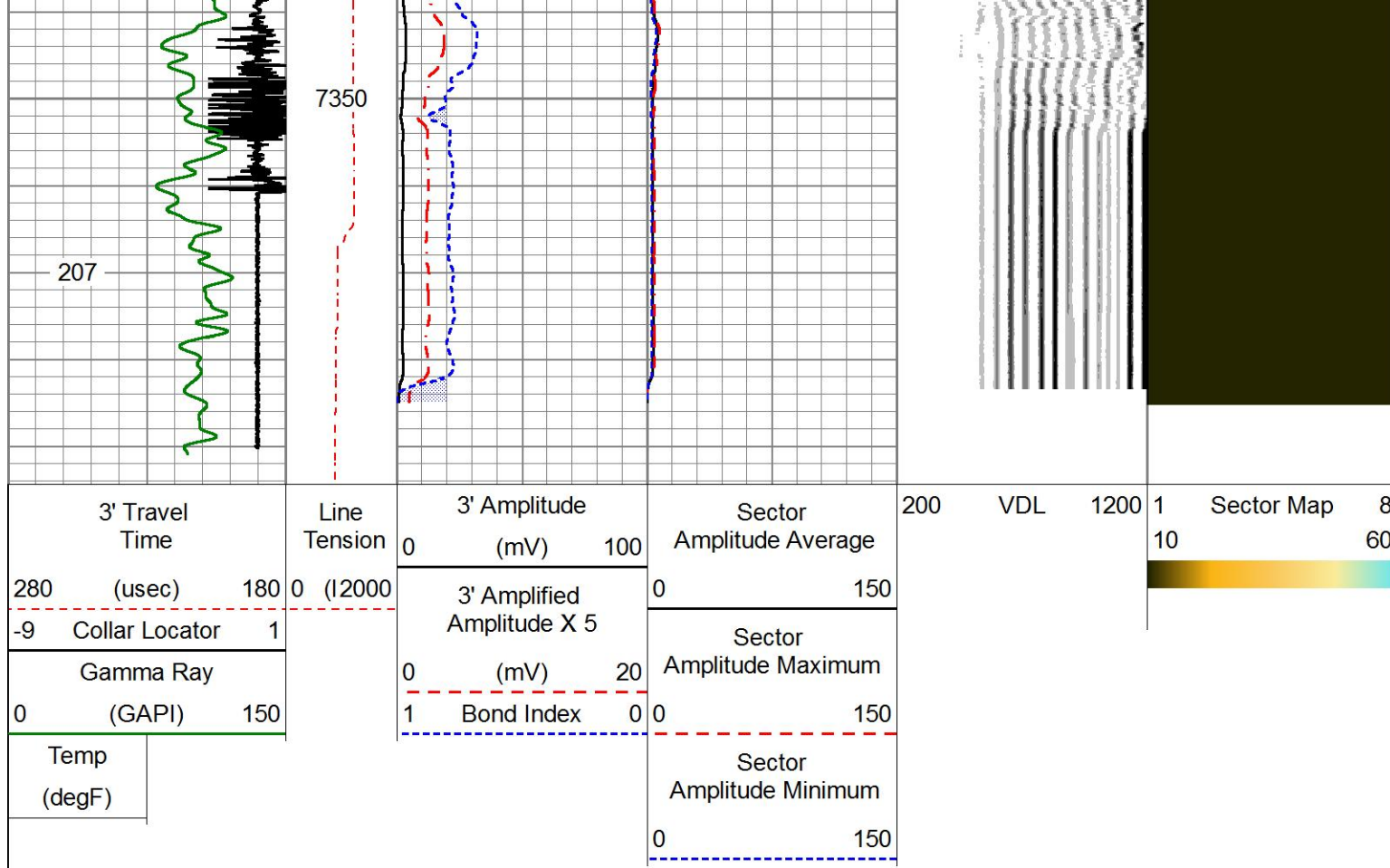












Calibration Report		
Database File	champlin 86.db	
Dataset Pathname	pass8	
Dataset Creation	Tue Apr 11 17:16:28 2017	

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

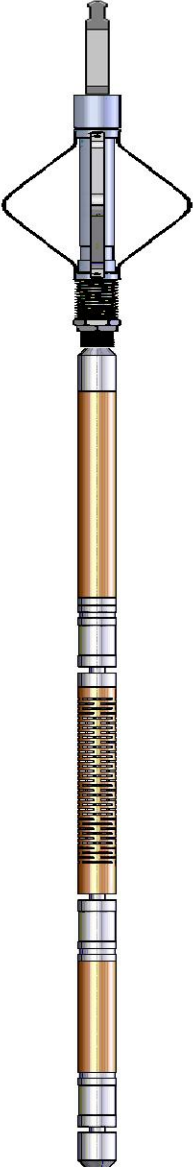

Master Calibration, performed Tue Apr 11 16:55:16 2017:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.590	1.000	62.165	103.648	1.000
CAL	0.000	0.833				

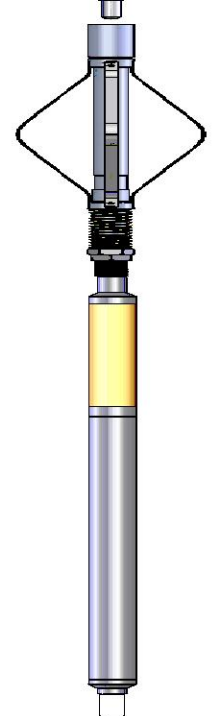
5'	0.000	0.650	1.000	62.165	94.049	1.000
SUM						
S1	0.000	0.565	0.000	100.000	177.098	0.000
S2	0.000	0.577	0.000	100.000	173.324	0.000
S3	0.000	0.614	0.000	100.000	162.856	0.000
S4	0.000	0.648	0.000	100.000	154.353	0.000
S5	0.000	0.651	0.000	100.000	153.526	0.000
S6	0.000	0.626	0.000	100.000	159.707	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 (F4.54:12- Probe 2 3/4" Gamma Ray / CCL Corrosion Digital	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
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