



**RADIAL BOND LOG  
WITH GAMMA RAY**

Comp. ANADARKO PETROLEUM CORP  
Well MEGAN H 16-6  
Field WATTENBERG  
Co. WELD  
State CO

Company **ANADARKO PETROLEUM CORP**  
Well **MEGAN H 16-6**  
Field **WATTENBERG**  
County **WELD** State **CO**

Location: API #: 05-123-15112 Other Services  
SE/NW GR CCL  
SEC 16 TWP 3N RGE 65W  
Permanent Datum GL Elevation 4840'  
Log Measured From KB 10' Above Perm. Datum  
Drilling Measured From KB G.L. 4850'  
D.F. 4849'  
G.L. 4840'

Date of Service	APRIL 17TH, 2023
Run Number	ONE
Depth Driller or P8TD	7356'
Depth Logger	7090'
Bottom Log Interval	7085
Top Log Interval	SURFACE
Open Hole Size	7.88"
Type Fluid	WATER
Fluid Level	SURFACE
Fluid Density	8.3#
Max. Recorded Temperature	193° F
Max. Wellhead Pressure	ZERO
Wellhead Connection	7 1/16" 5K
Estimated Cement Top	SEE LOG
Unit Number	5074
Wireline Size	9/32"
Location	FORT MORGAN
Recorded By	G. JACKSON
Witnessed By	P. CHAVIRA

Tubing Record	Size	WV/Ft	Top	Bottom
Surface Casing	8.625"	24#	SURFACE	484'
Production Casing	3.5"	9.3#	SURFACE	7325'
Liner Record				

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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.  
LOG CORRELATED TO 10' KB

THANK YOU FOR USING PIONEER ENERGY SERVICES!

<p>Your Pioneer Energy Services Crew</p> <p>Engineer: G. JACKSON Operator: T. RITER Operator: M. LLAMAS Operator:</p>	<p>Tool Data - Services</p> <p>BOND GAMMA RAY/CCL</p>	<p>Serial Number</p>
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
			Cable Head-Titan_169 1 11/16" Titan Cable Head	1.03	1.69	2.00	
			Centralizer-275 Titan ADJ Titan 2 3/4" Adjustable Centralizer	2.75	2.75	28.00	
TEMP	14.67						
WVFCAL	14.00						
WVFS6	13.25			TekCo-SCBL-169-169 TekCo w Temp (ICE-J4-03) 1 11/16" RIB w/ Temp 400 Deg. F	9.75	1.69	63.00
WVFS5	13.25						
WVFS4	13.25						
WVFS3	13.25						
WVFS2	13.25						
WVFS1	13.25						
WV3FT	12.50						
WV5FT	11.50						
WVTEMP	8.17		Centralizer-169 Titan ADJ Titan 1 11/16" Adjustable Centralizer	2.75	1.69	22.00	
CCL	4.70		CCL_Logging-169 TekCo (IRX07-04) TekCo 1 11/16" Rare Earth	1.33	1.69	5.00	
GR	1.27		GR-169 TekCo (IDG07-04) TEKCO 1 11/16" 400 Deg. F Logging Gamma Ray	3.82	1.68	40.00	
			Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00	

Dataset: oxy\_megan h 16-6\_rcbl\_4-14-23.db: field/well/run1/pass9  
 Total length: 21.70 ft  
 Total weight: 161.00 lb  
 O.D.: 2.75 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\oxy\_megan h 16-6\_rcbl\_4-14-23.db  
 Dataset field/well/run1/pass9/\_vars\_

## Top - Bottom

BHTEMP_Src TEMP	BOREID in 7.875	BOTTEMP degF 100	CASEOD in 3.5	CASETHCK in 0	CASEWGHT lb/ft 9.3	MAXAMPL mV 0
MINAMPL mV 1	MINATTN db/ft 0.08	PERFS No	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0	

## Variable Description

BHTEMP\_Src : BHTEMP Input Source Selector  
 BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness  
 CASEWGHT : Casing Weight  
 MAXAMPL : Maximum Amplitude

MINAMPL : Minimum Amplitude  
 MINATTN : Minimum Attenuation  
 PERFS : Perforation Flag  
 PPT : Predicted Pipe Time  
 SRFTEMP : Surface Temperature  
 TDEPTH : Total Depth

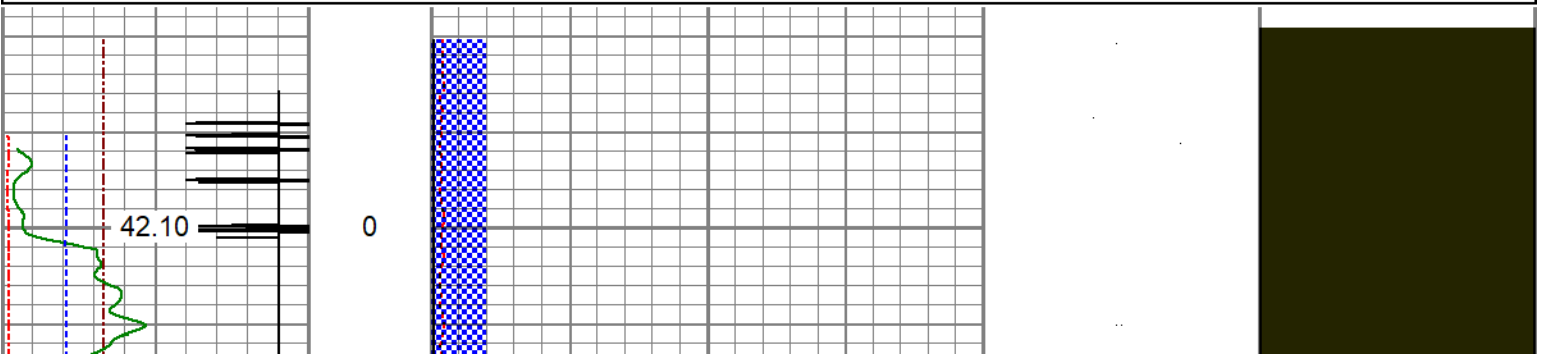


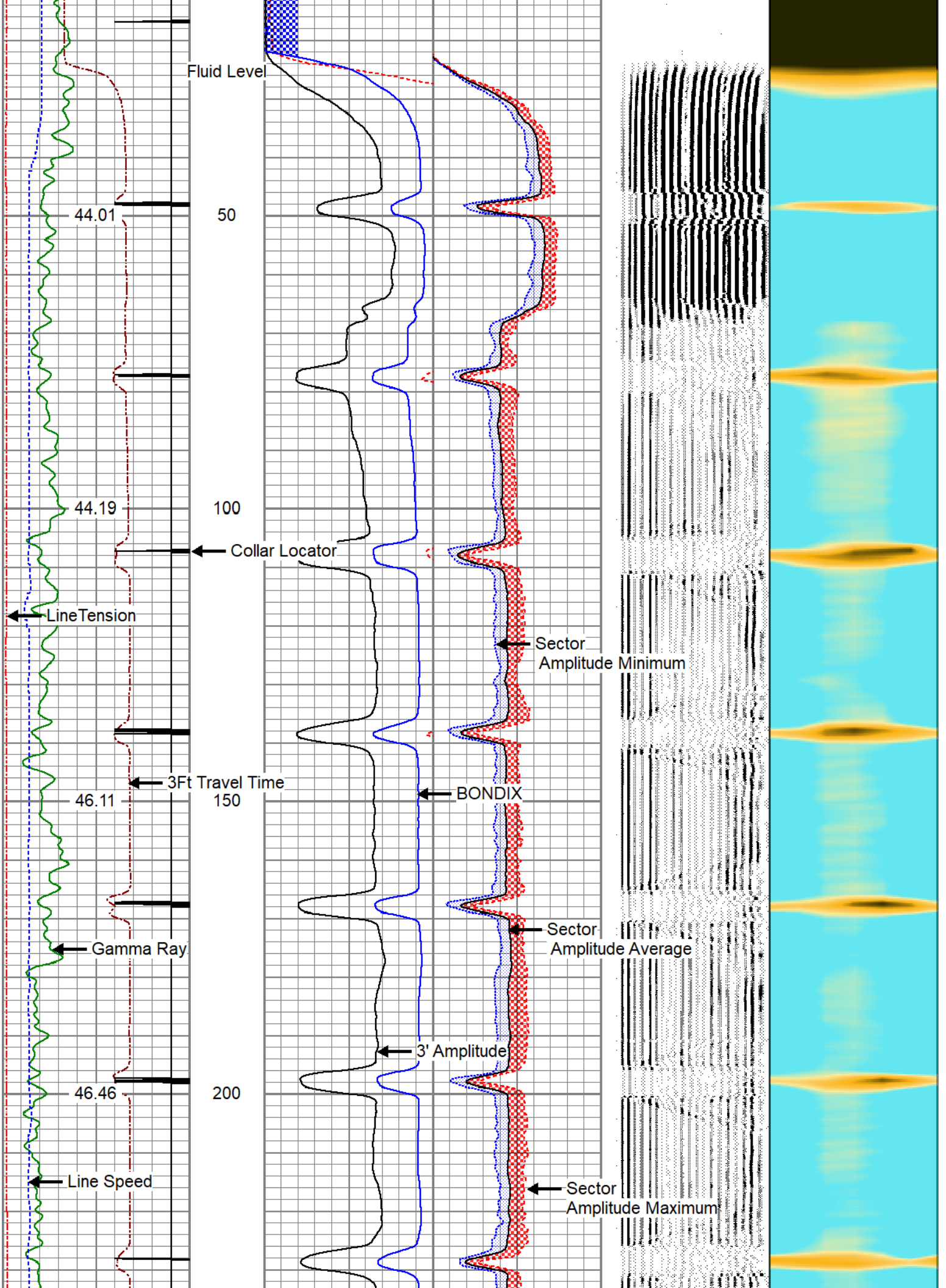
## MAIN LOG

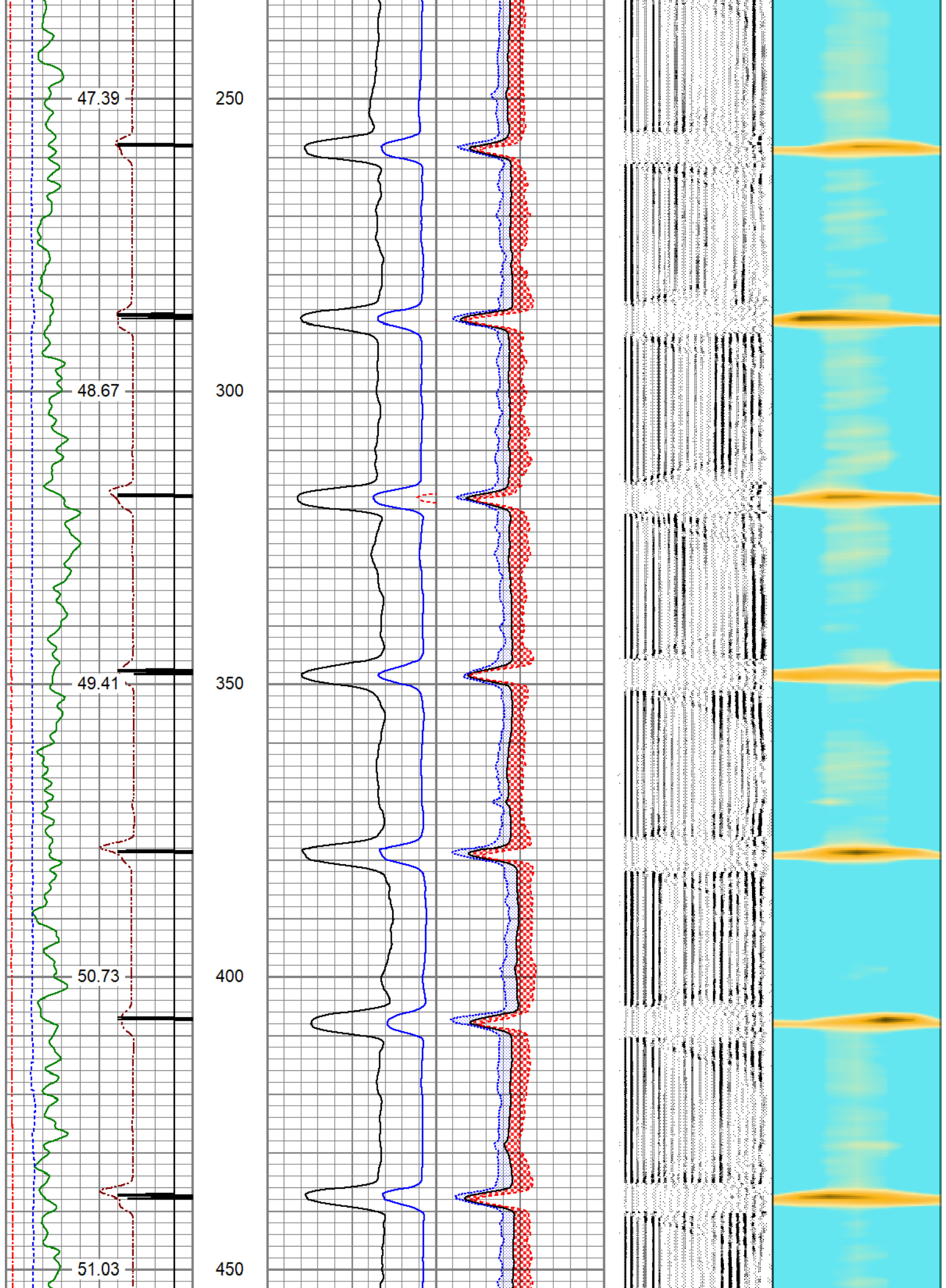
ZERO PSI APPLIED AT SURFACE

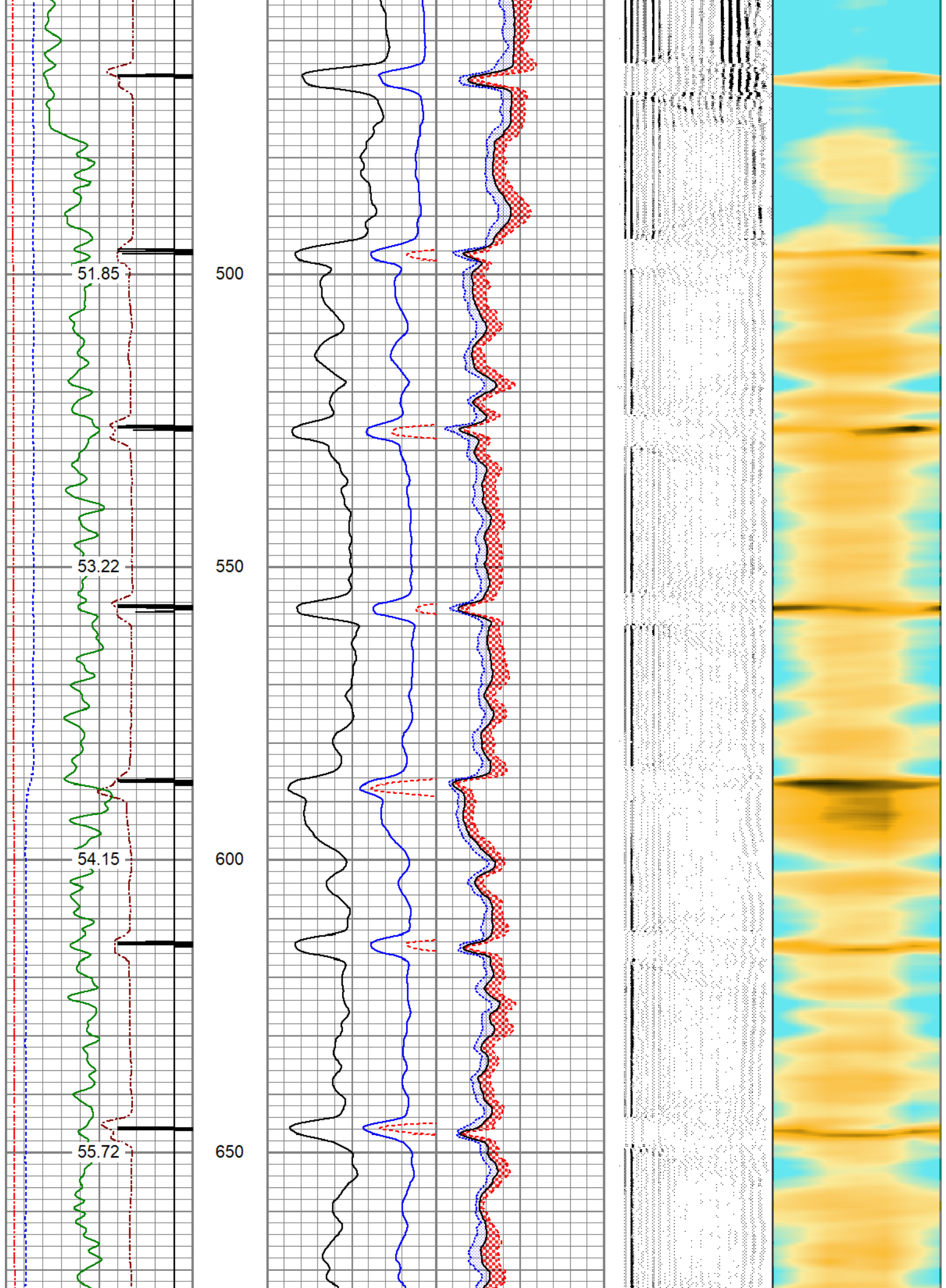
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 Dataset Pathname pass9  
 Presentation Format pinr\_scbl  
 Dataset Creation Mon Apr 17 08:34:09 2023  
 Charted by Depth in Feet scaled 1:240

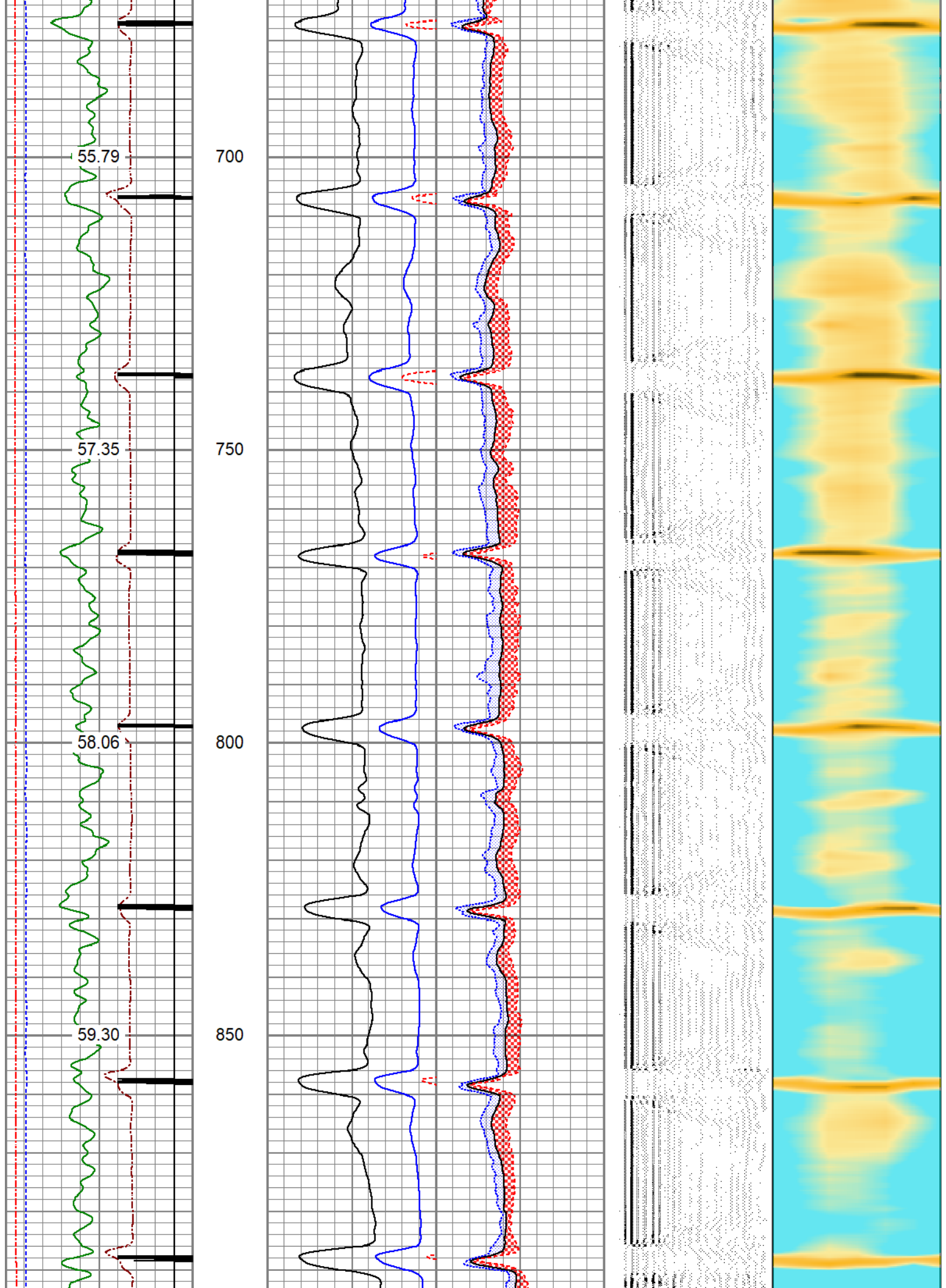
3Ft Travel Time 275 (usec) 175	3' Amplitude 0 (mV) 100	Sector Amplitude Average	VDL (usec) 1200	1 Sector Map 6
-9 Collar Locator 1	3' Amplified Amplitude X 5	0 150		
Gamma Ray 0 (cps) 150	0 (mV) 20	Sector Amplitude Maximum		
LineTension 0 (lb) 2000	1 BONDIX 0	0 150		
Line Speed -100 (ft/min) 100		Sector Amplitude Minimum		
TEMP (degF)		0 150		

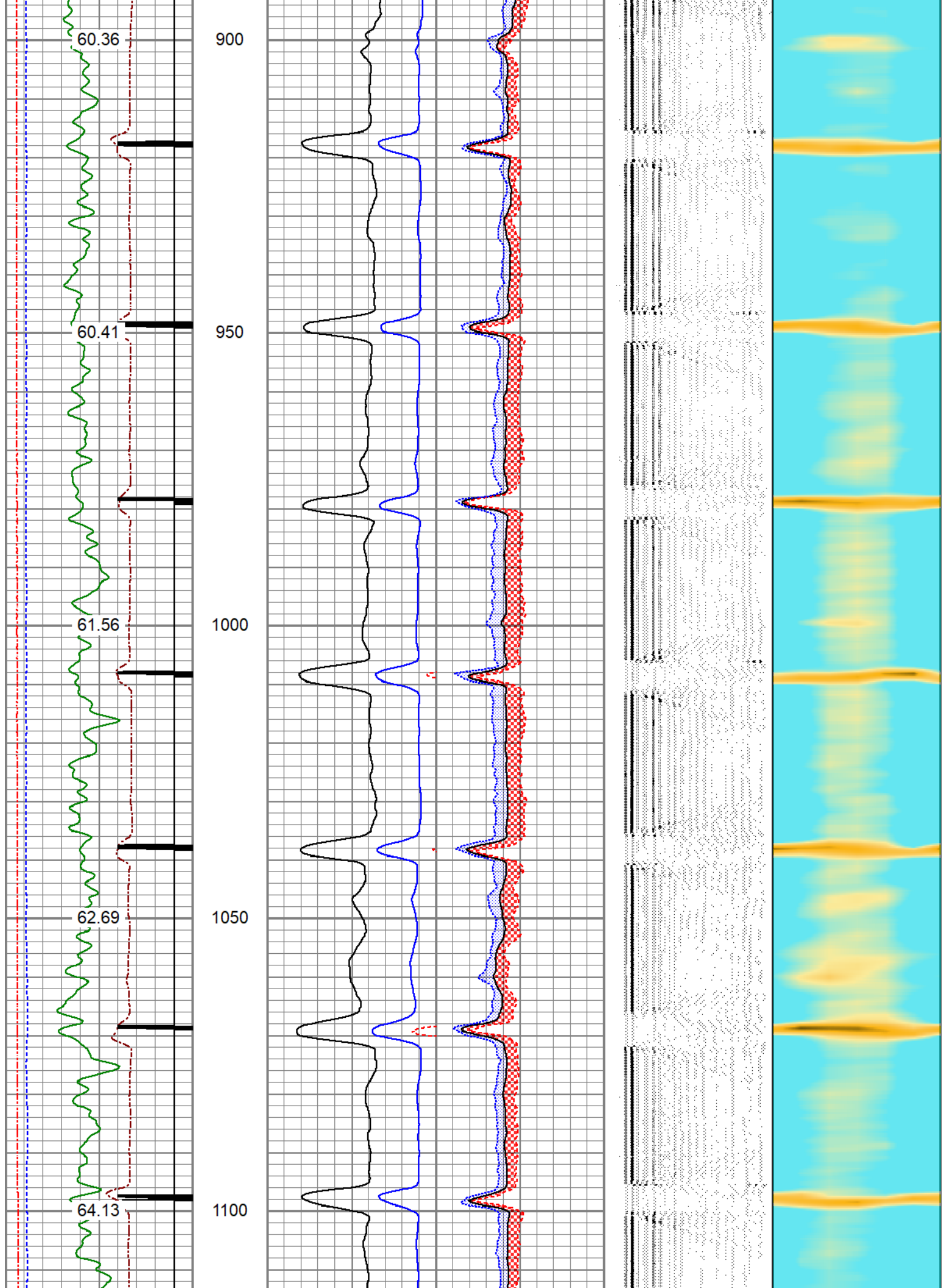


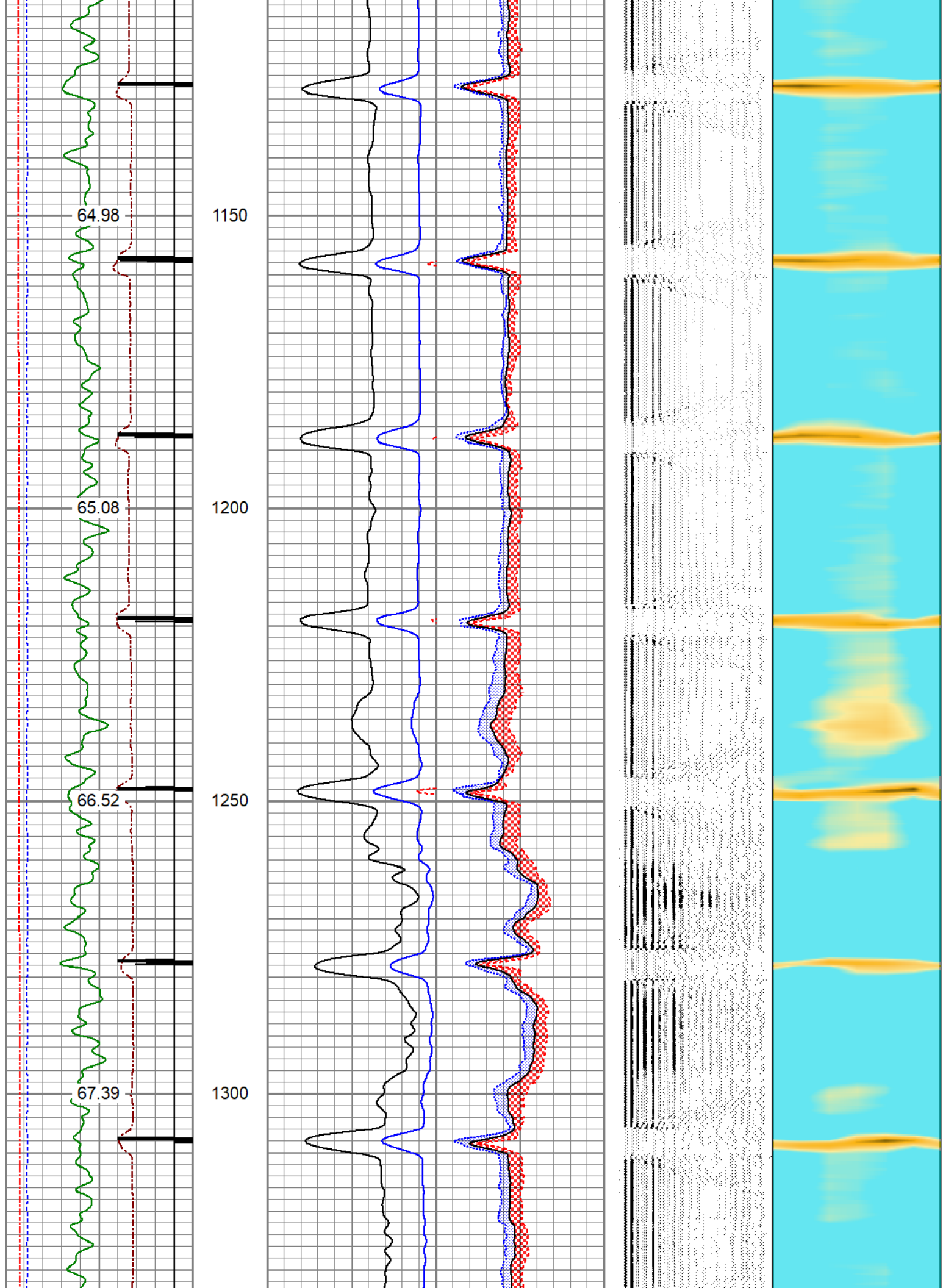


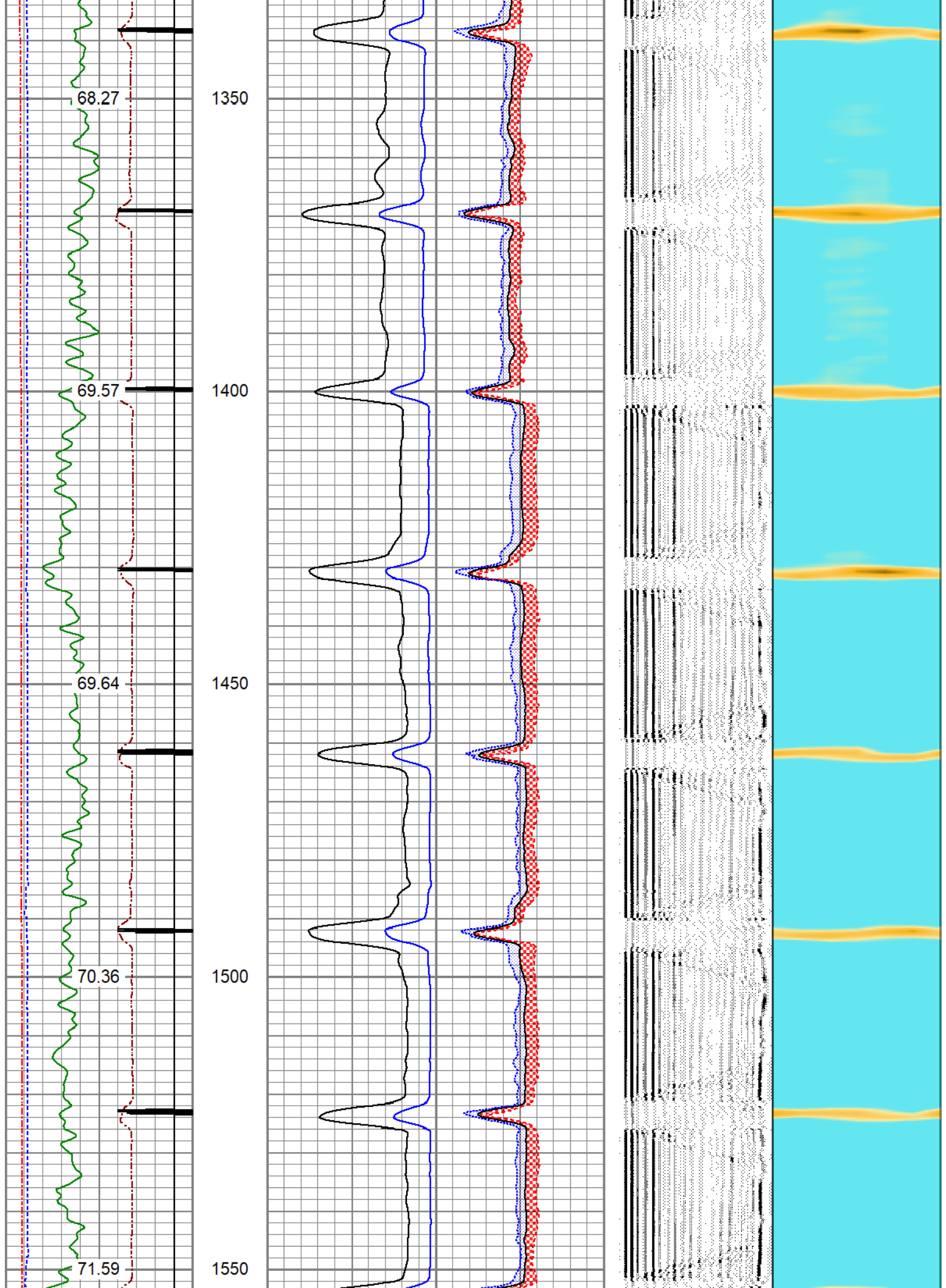


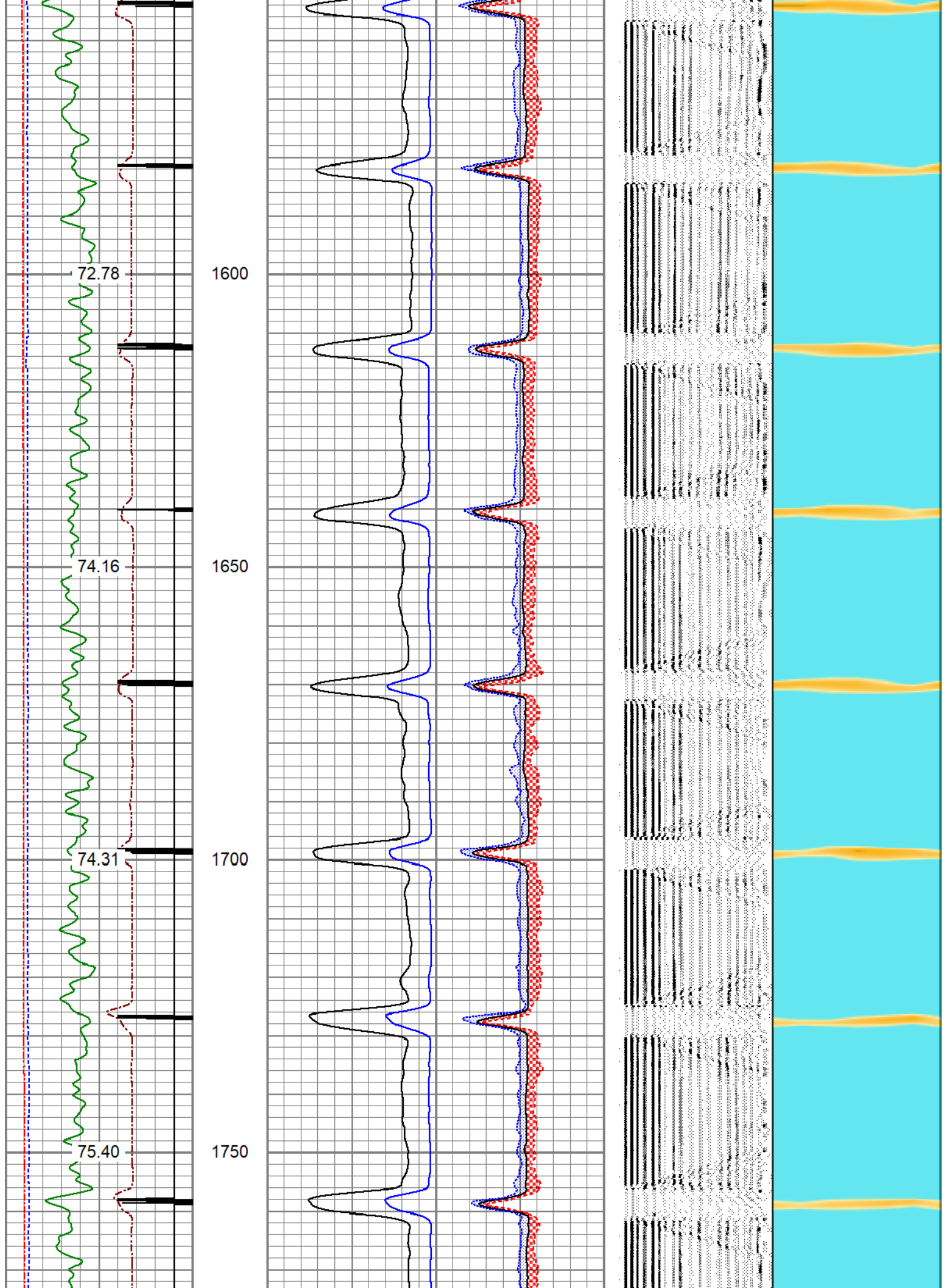


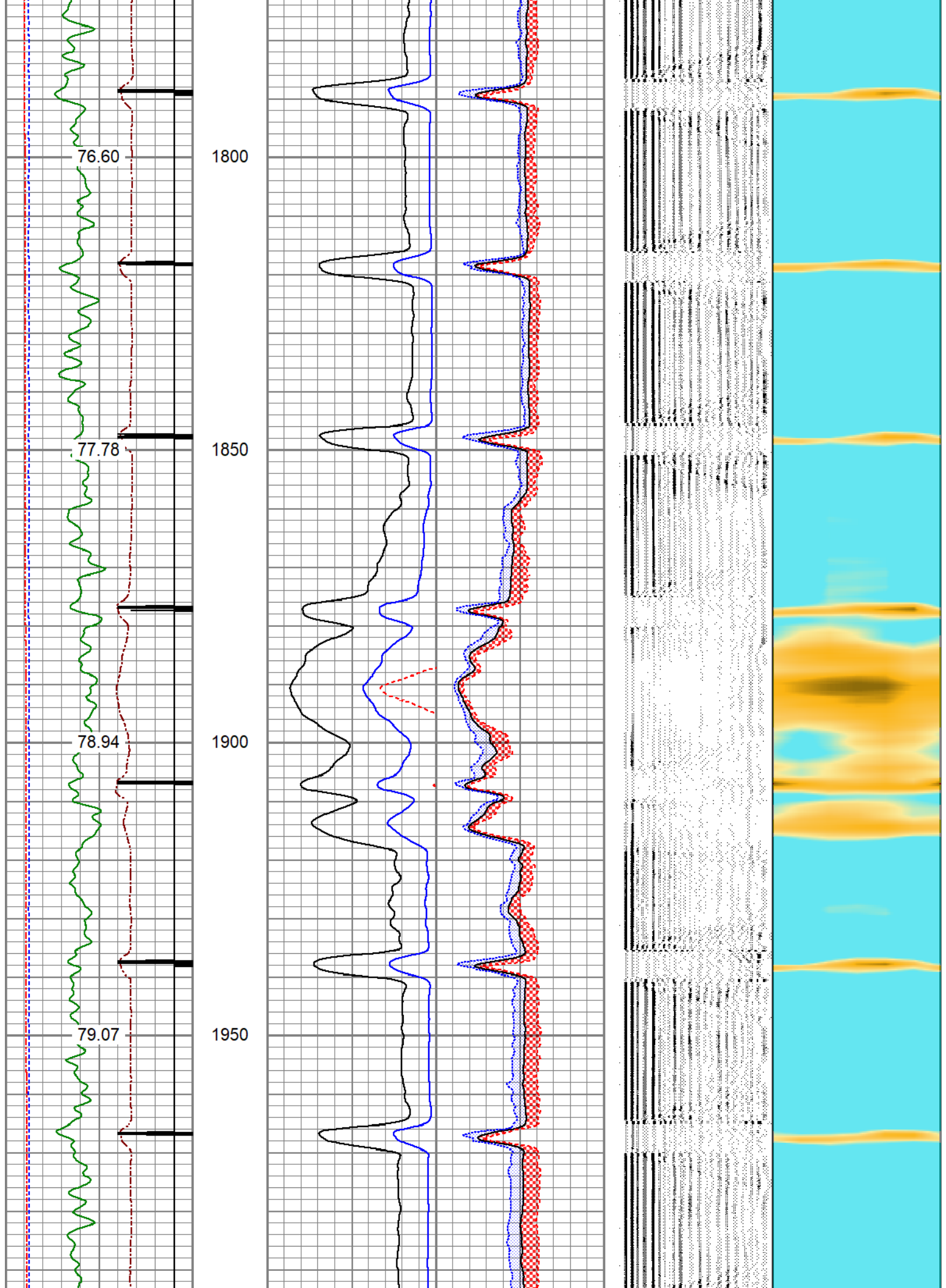


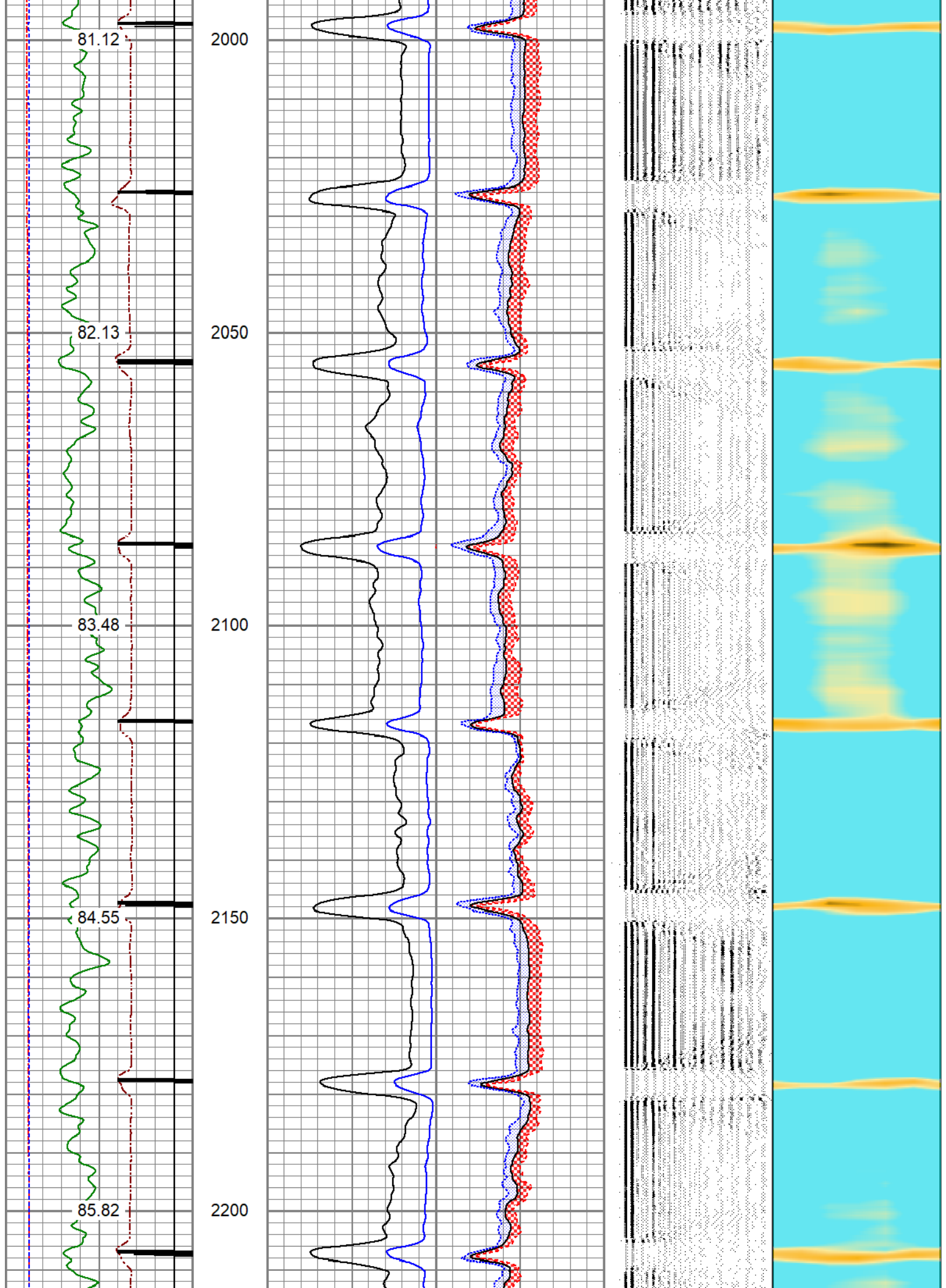




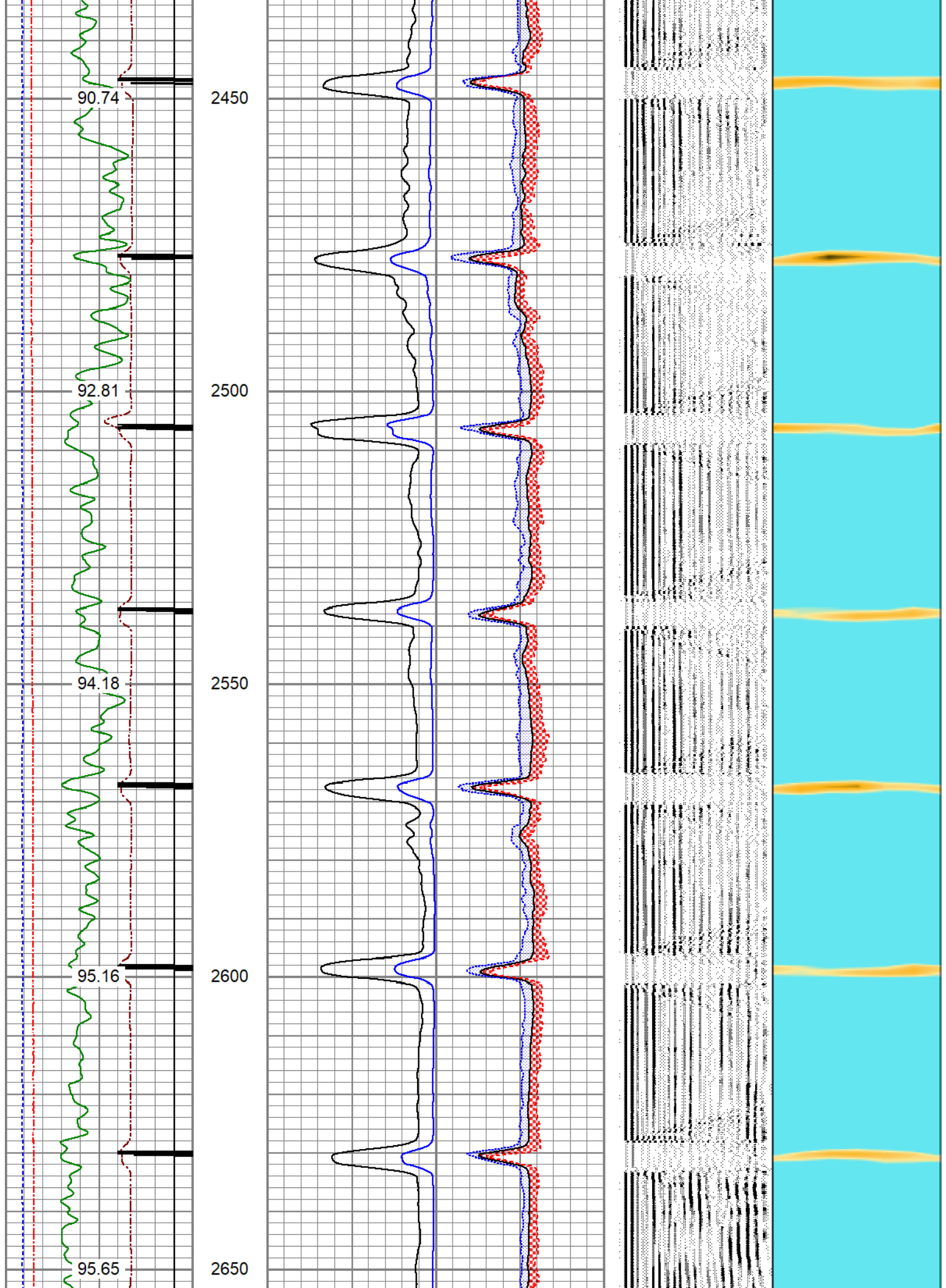


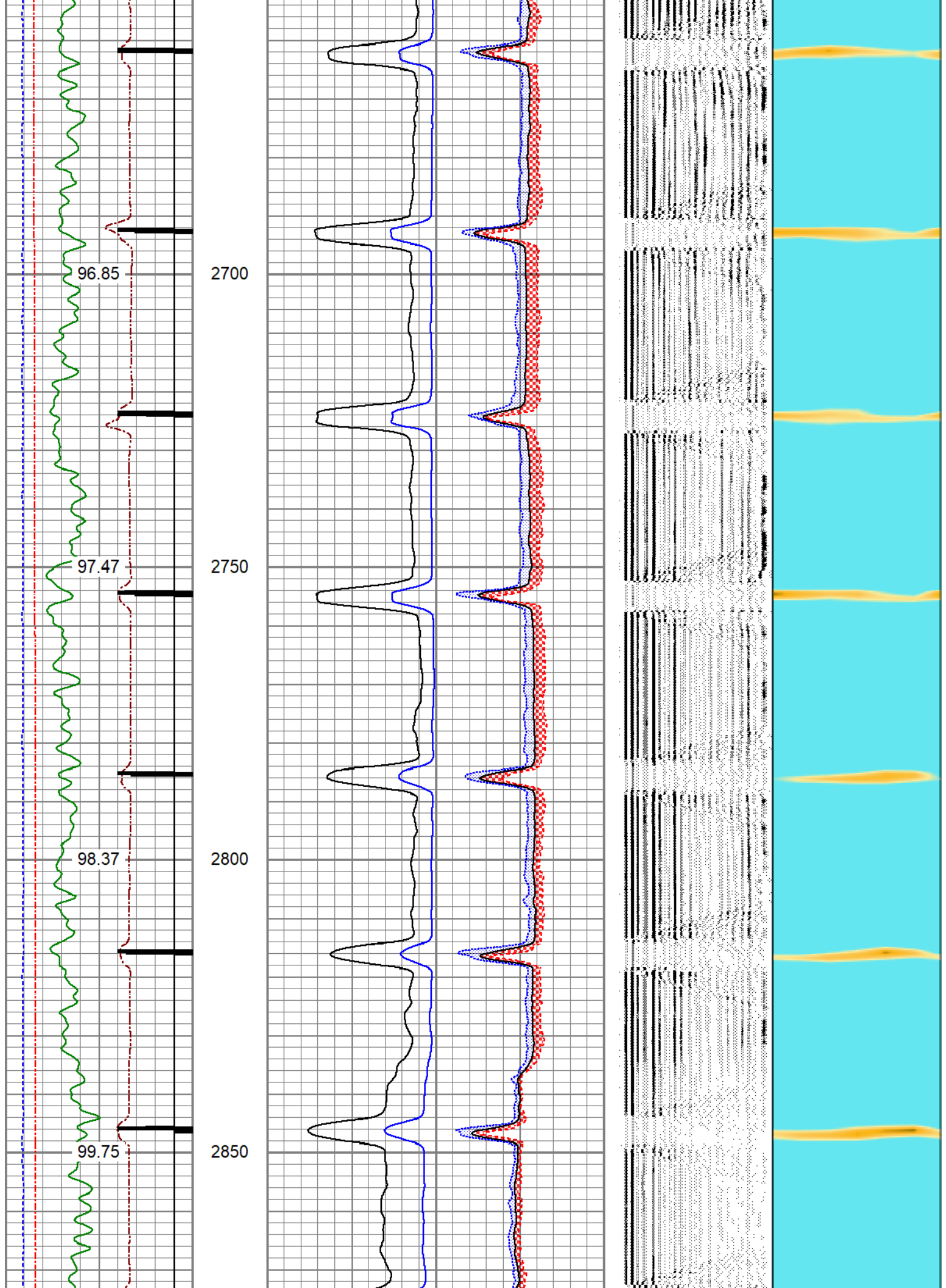


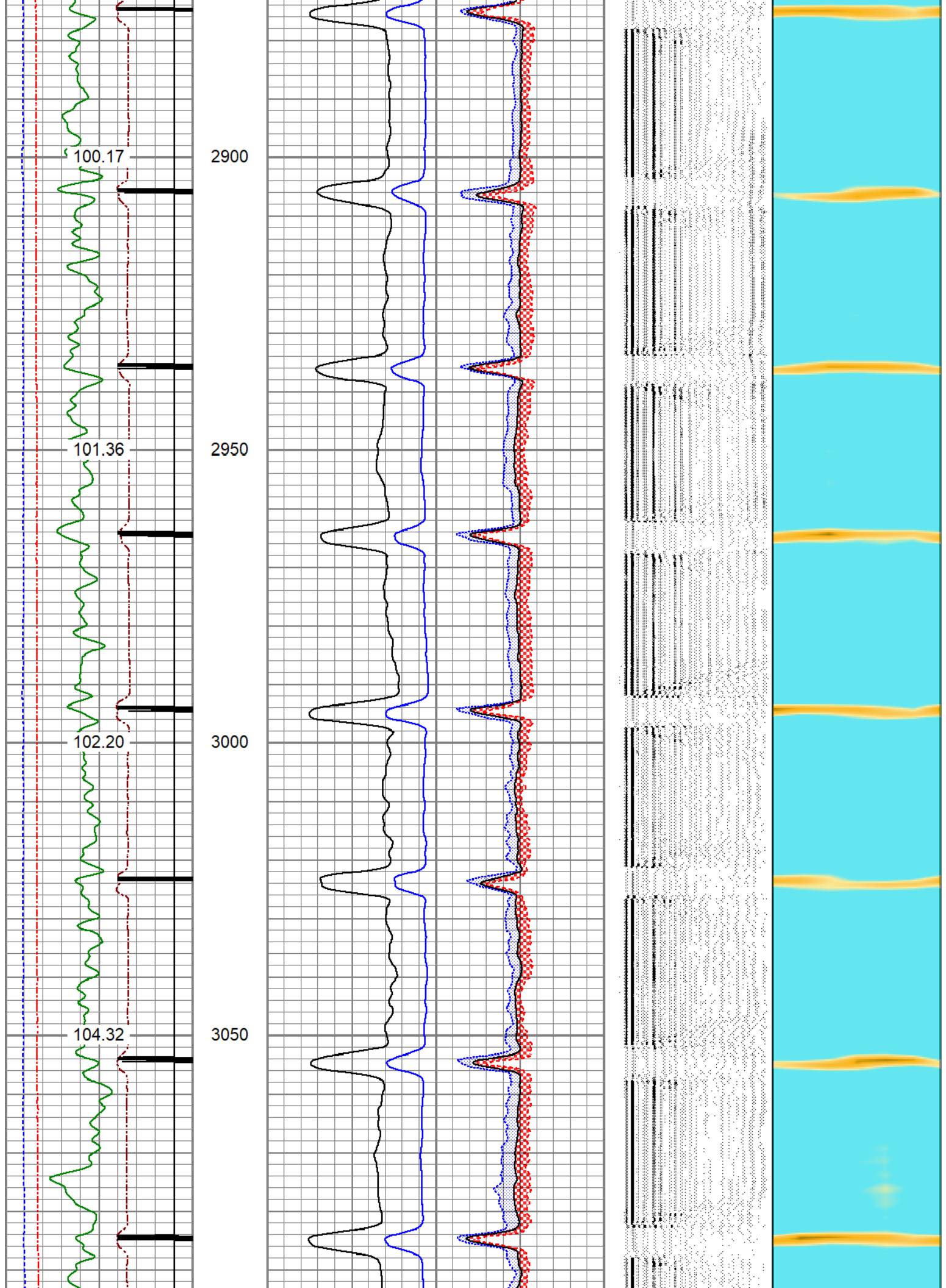


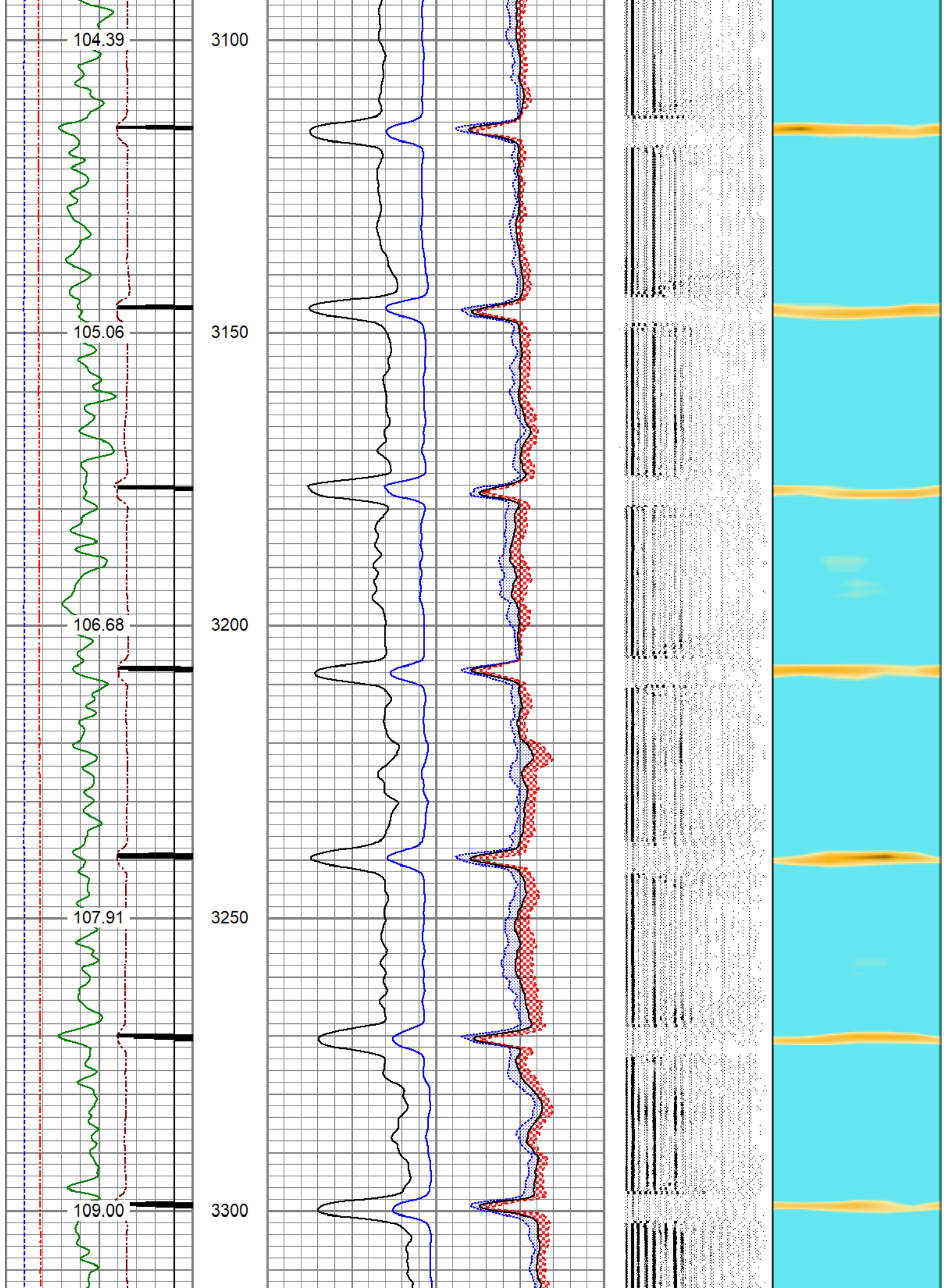


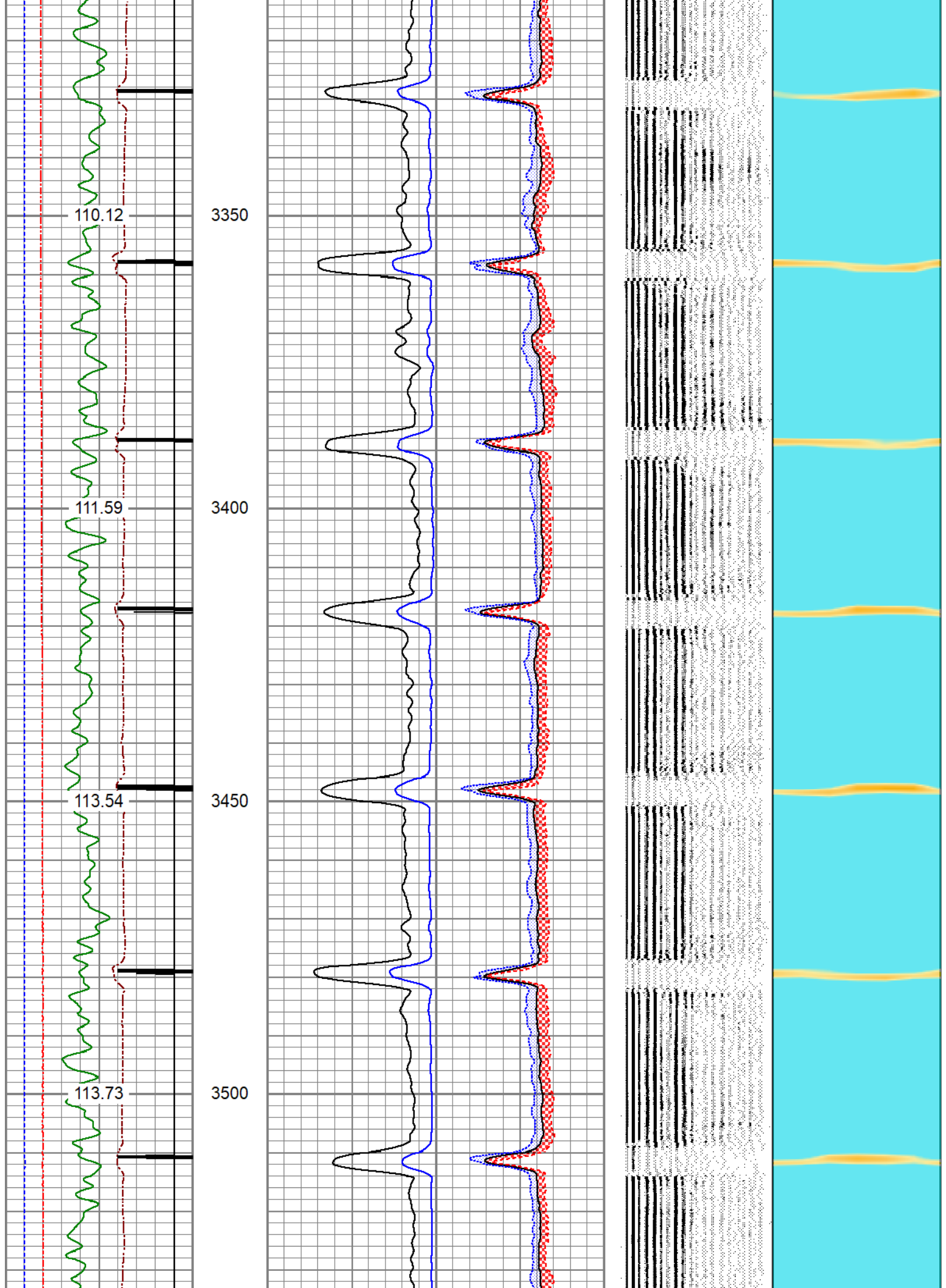


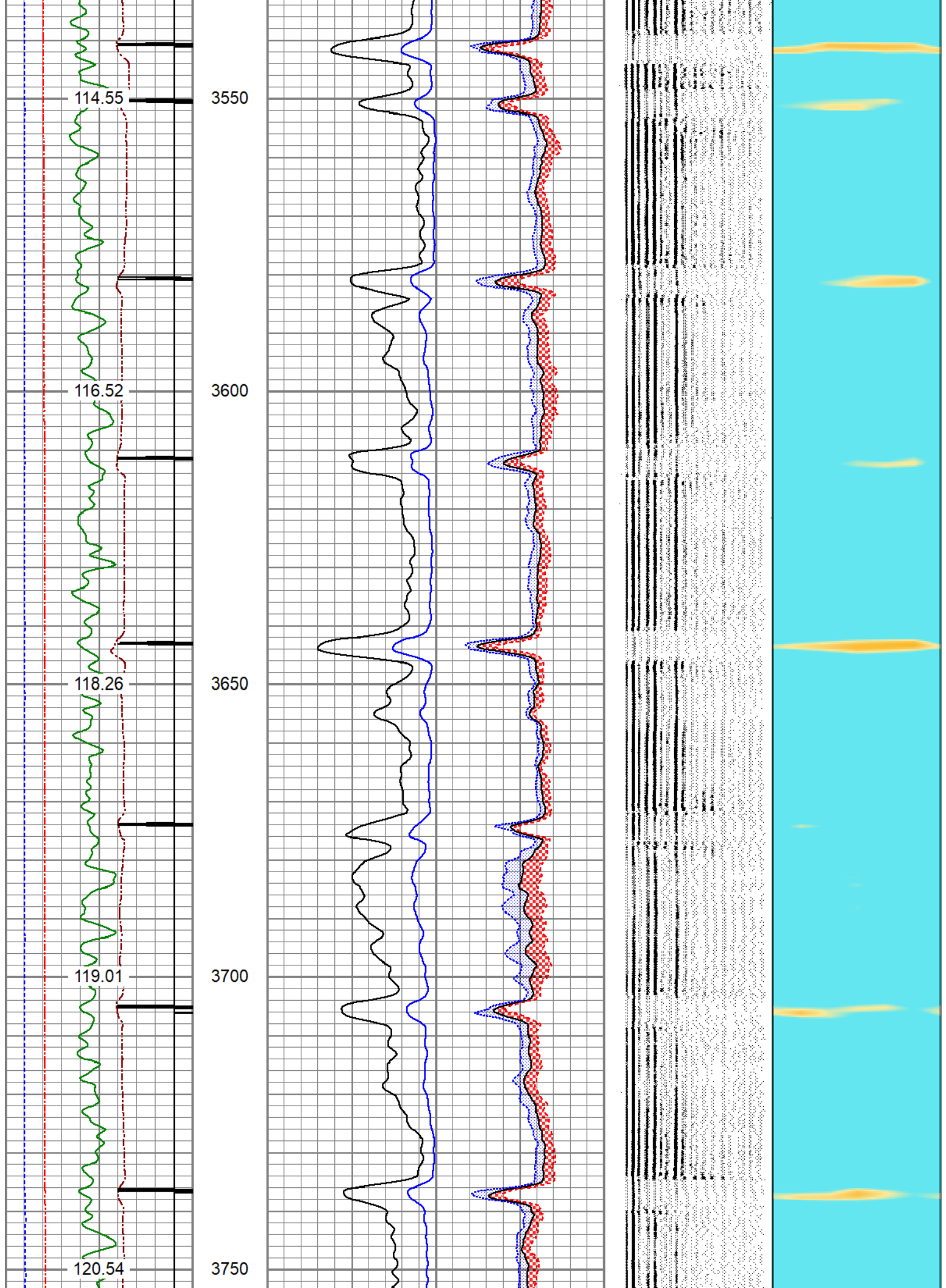


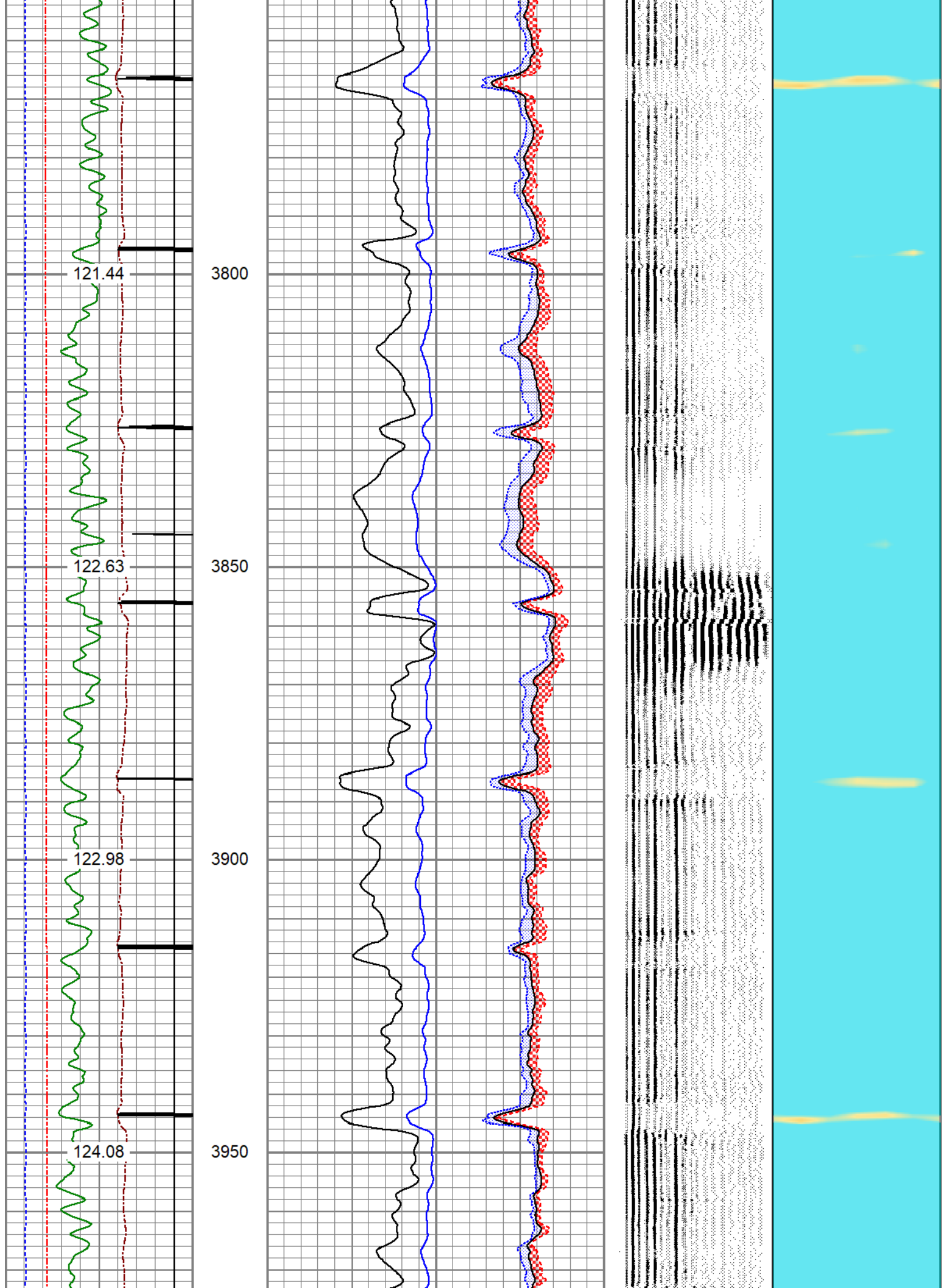


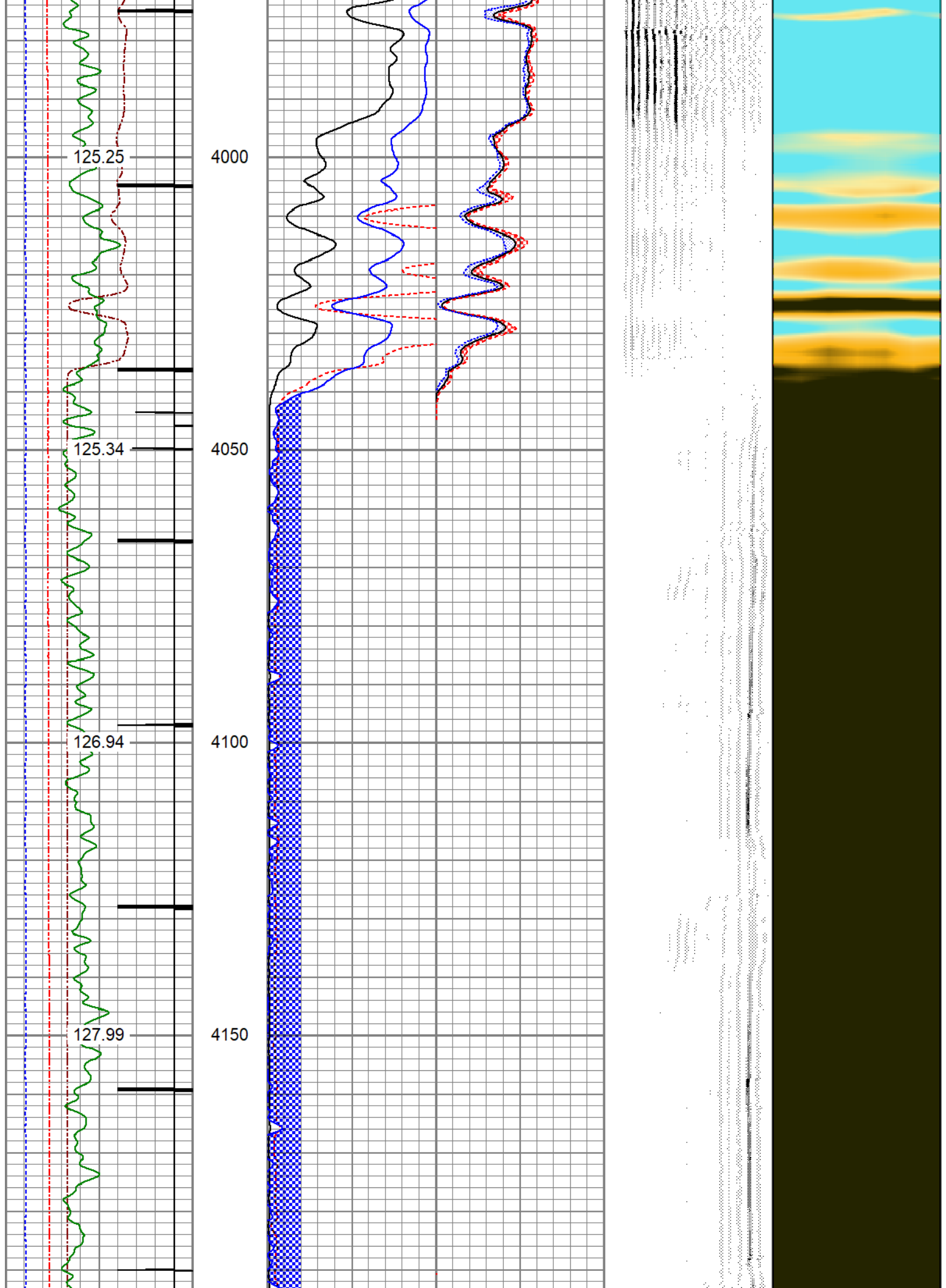


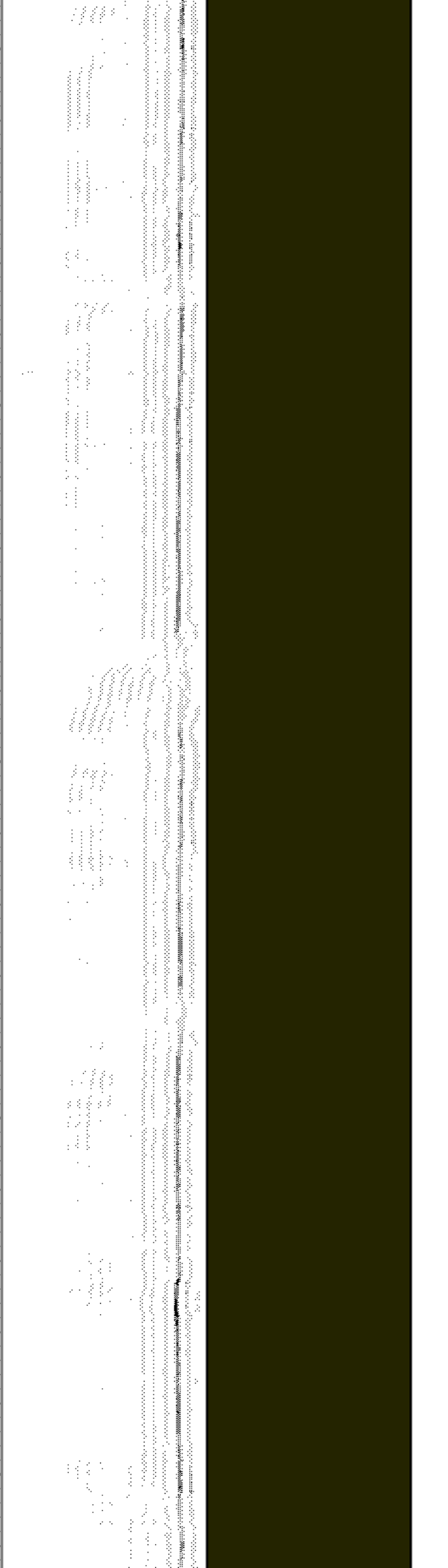
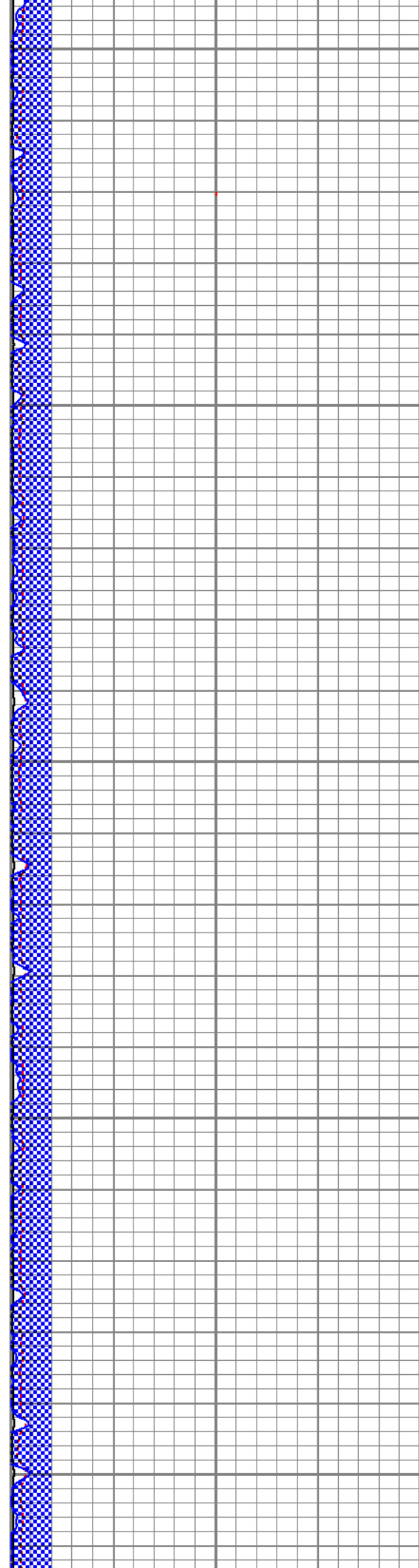
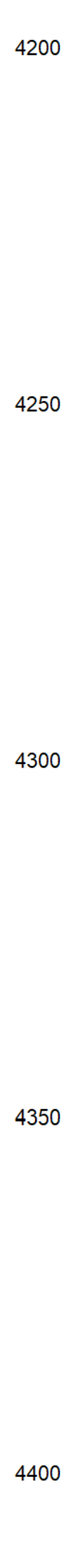
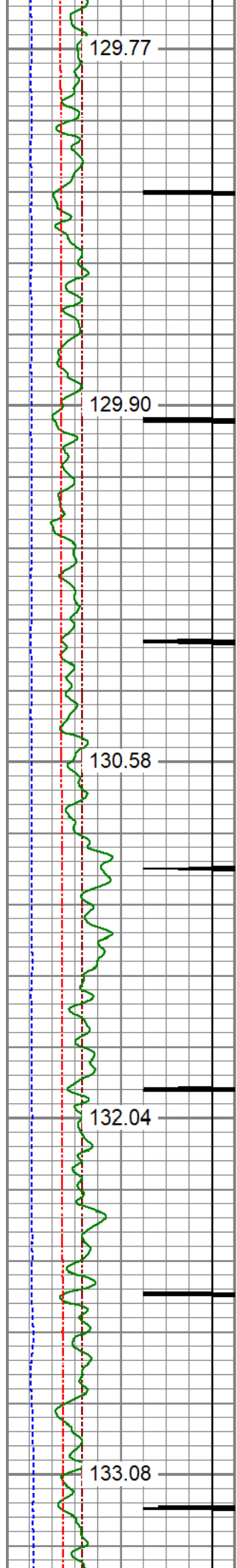


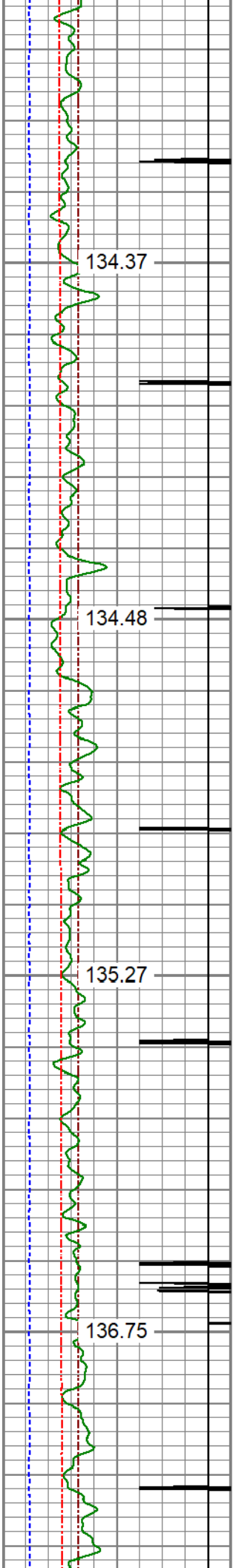










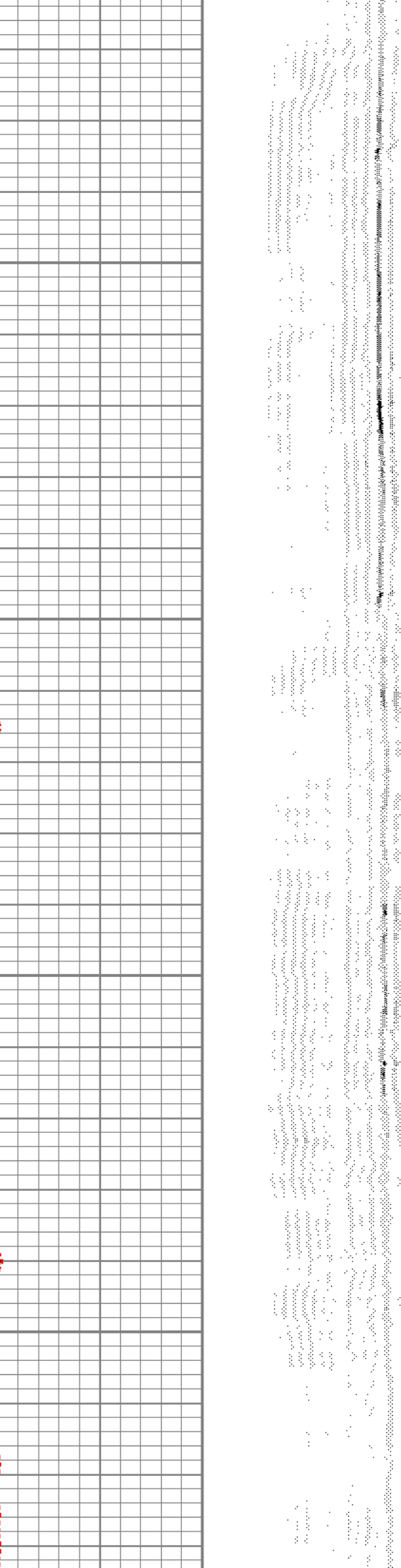


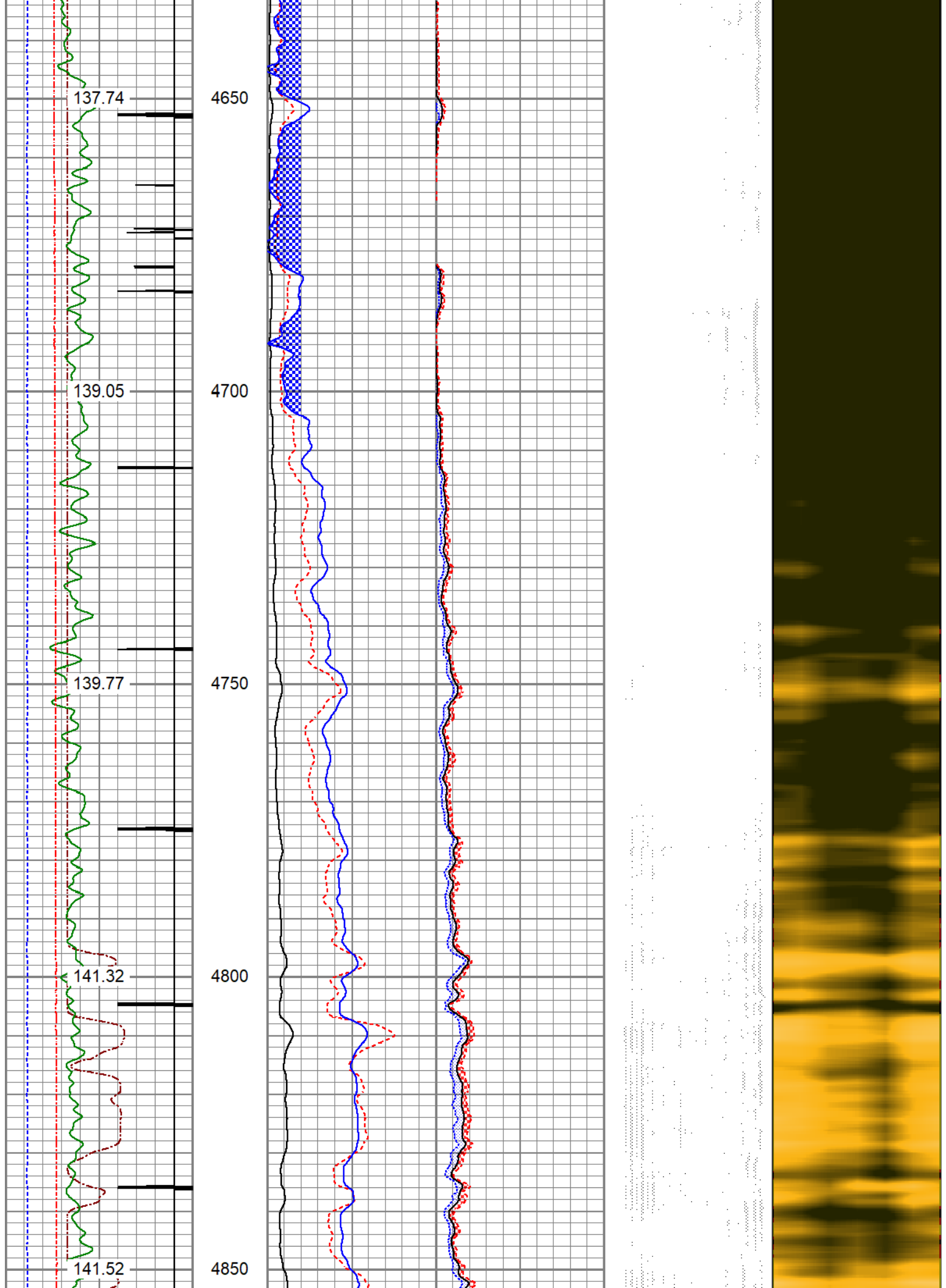
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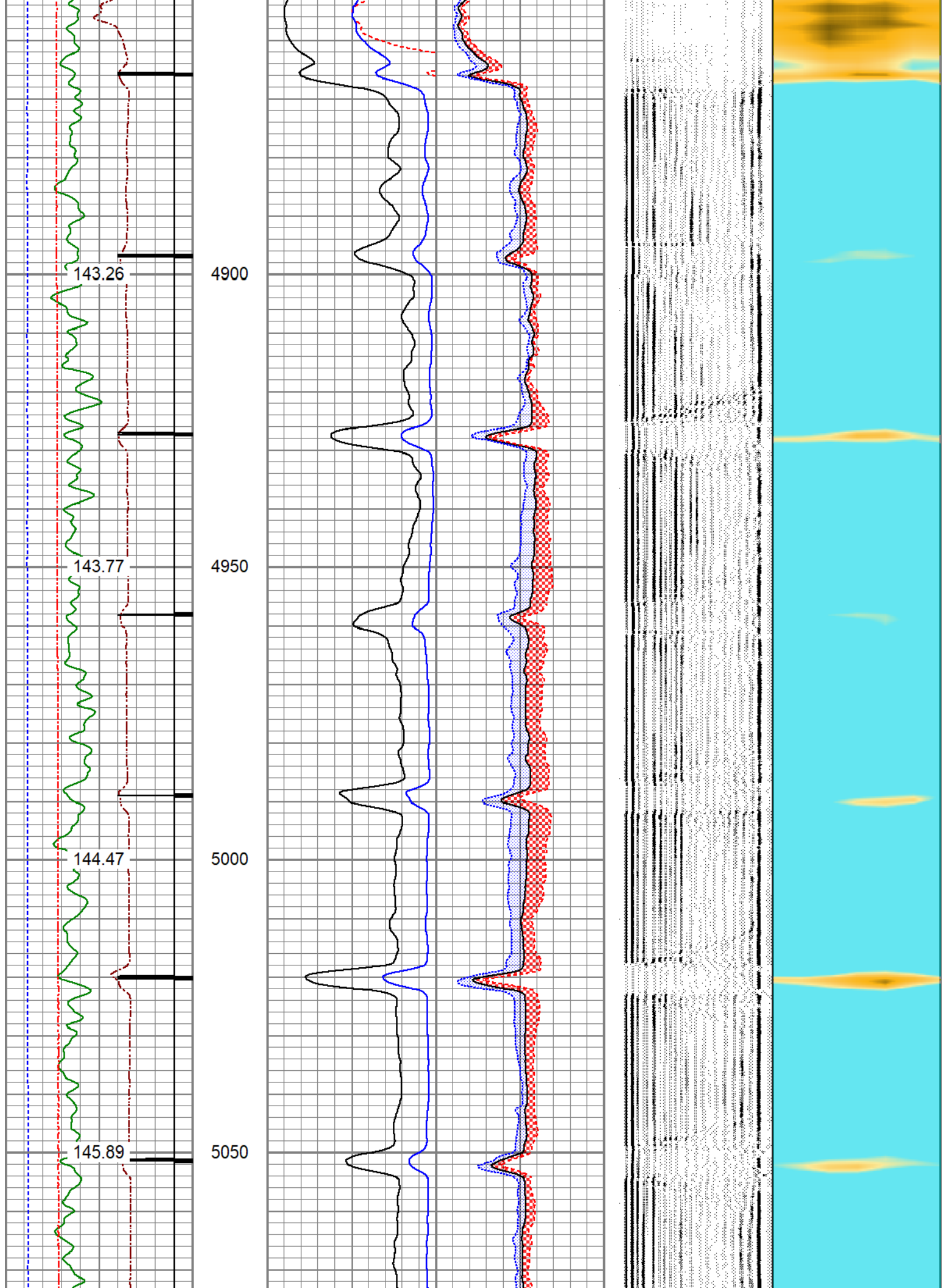
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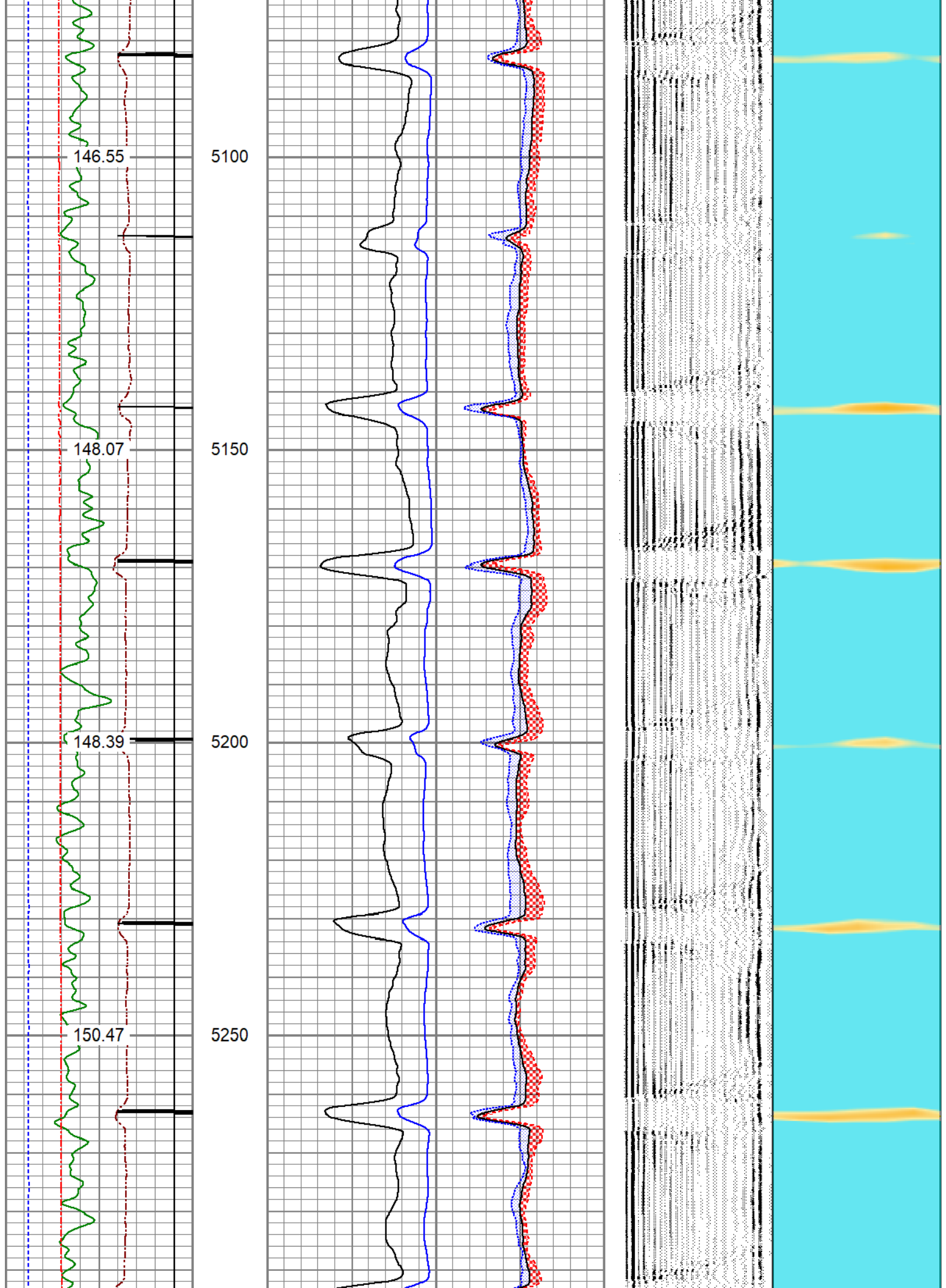
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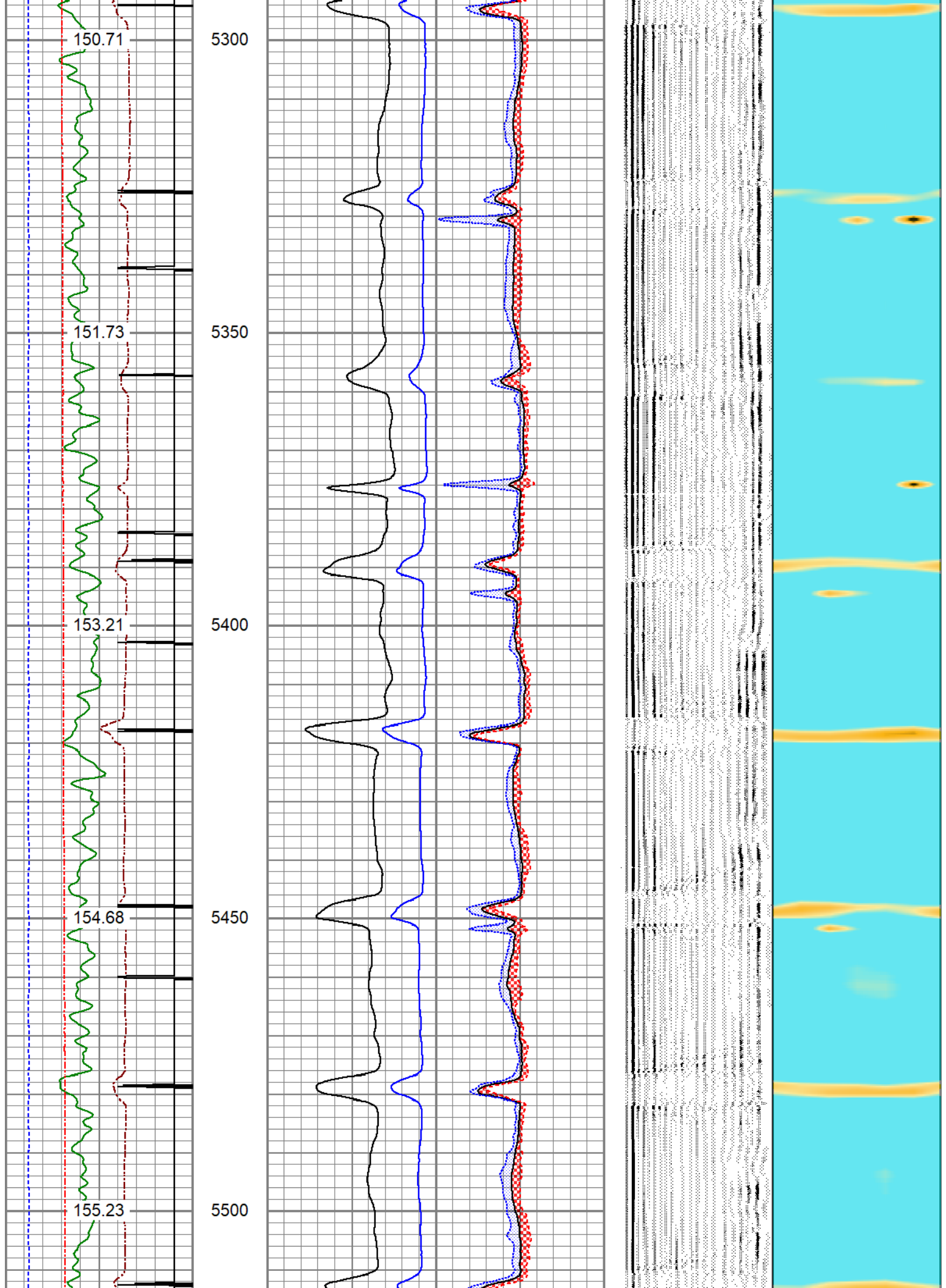
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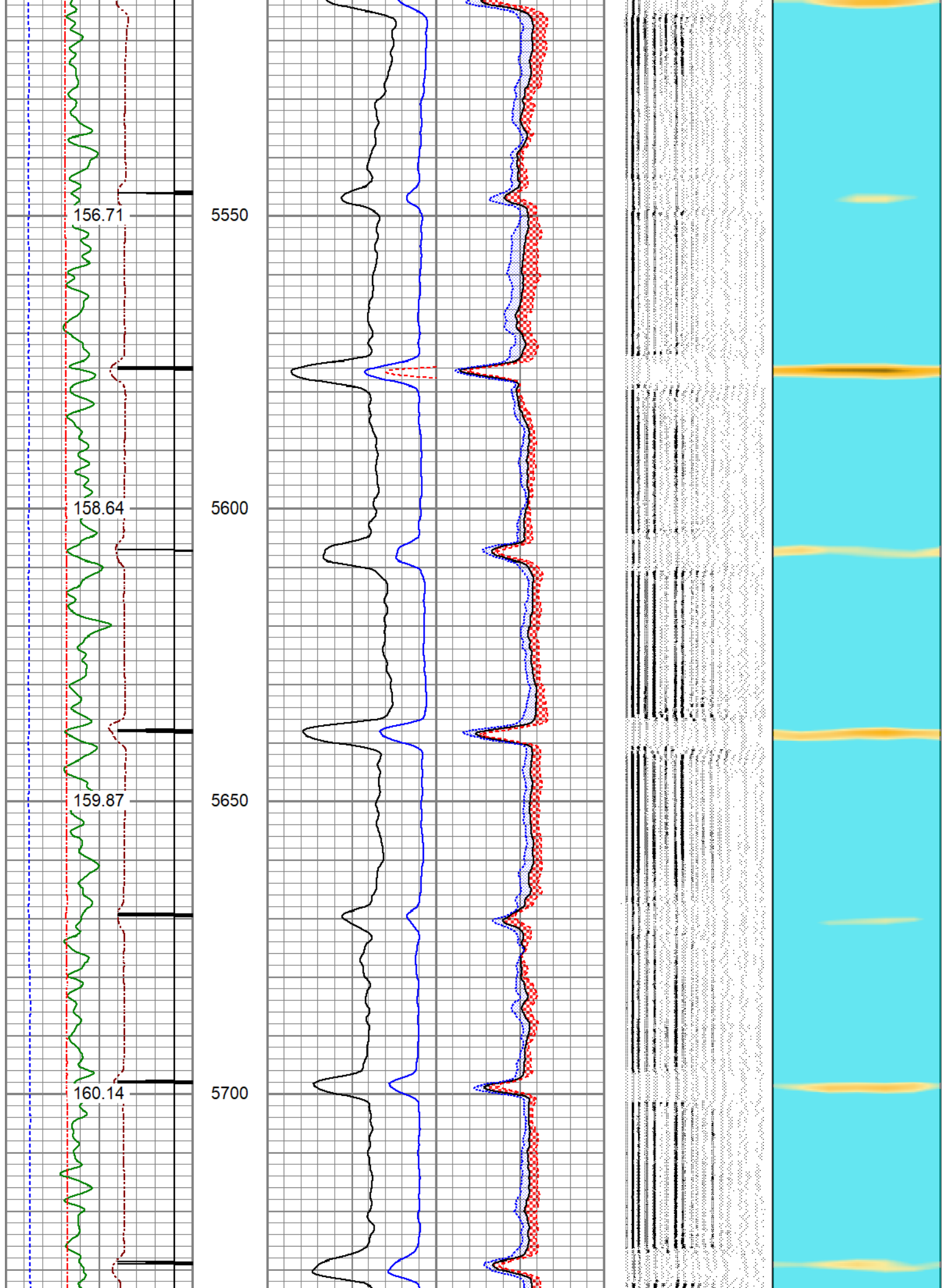


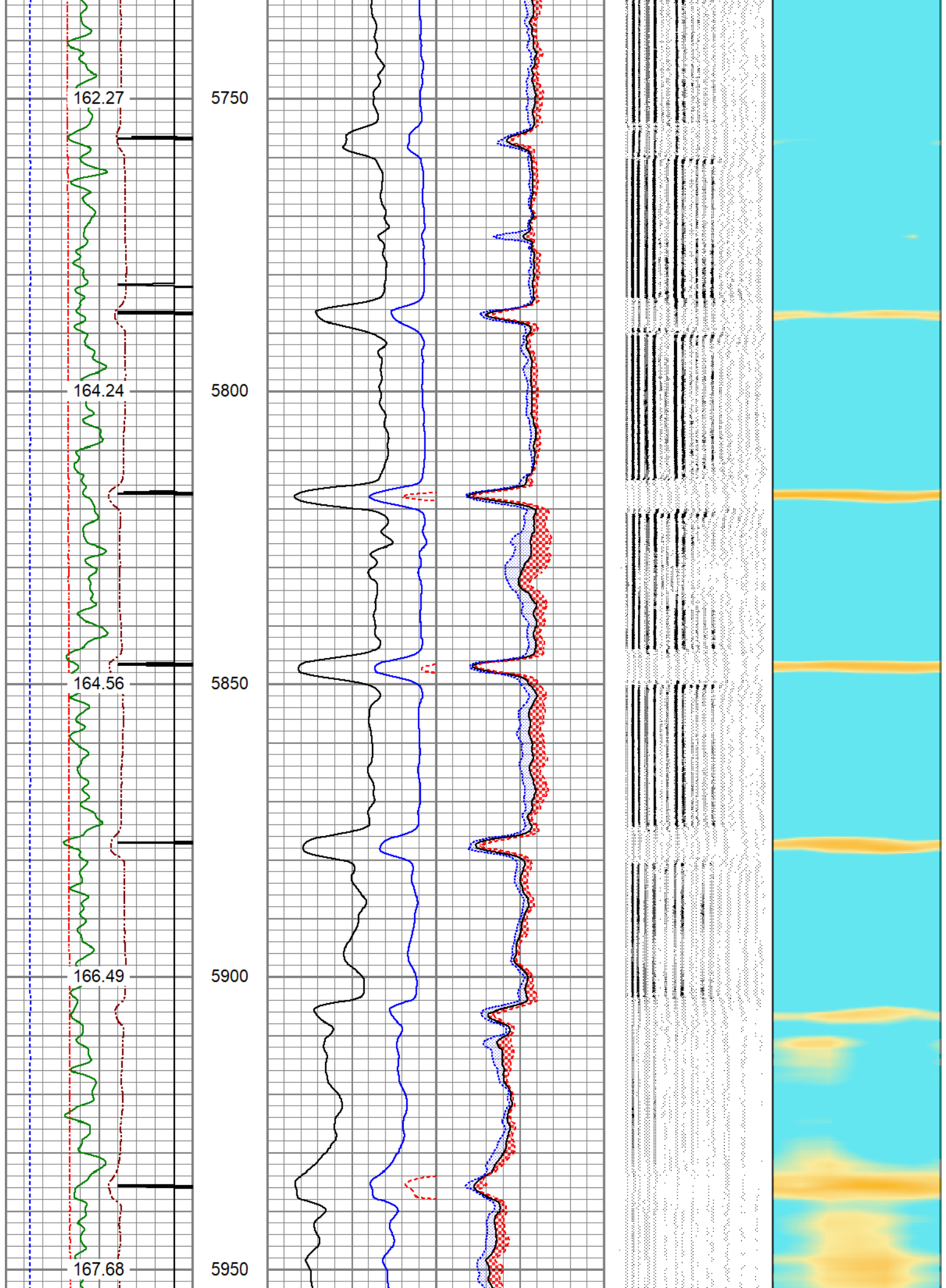


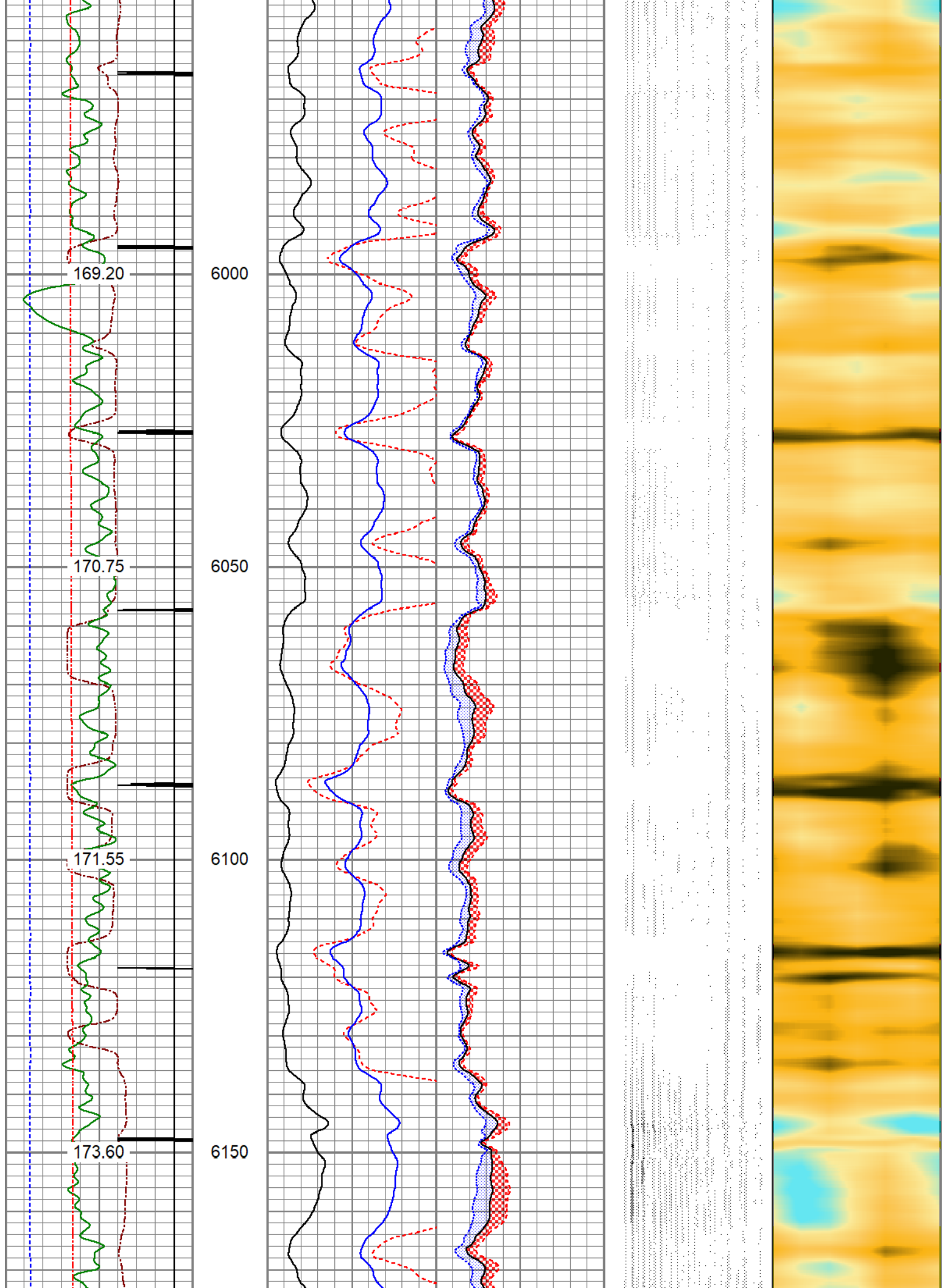


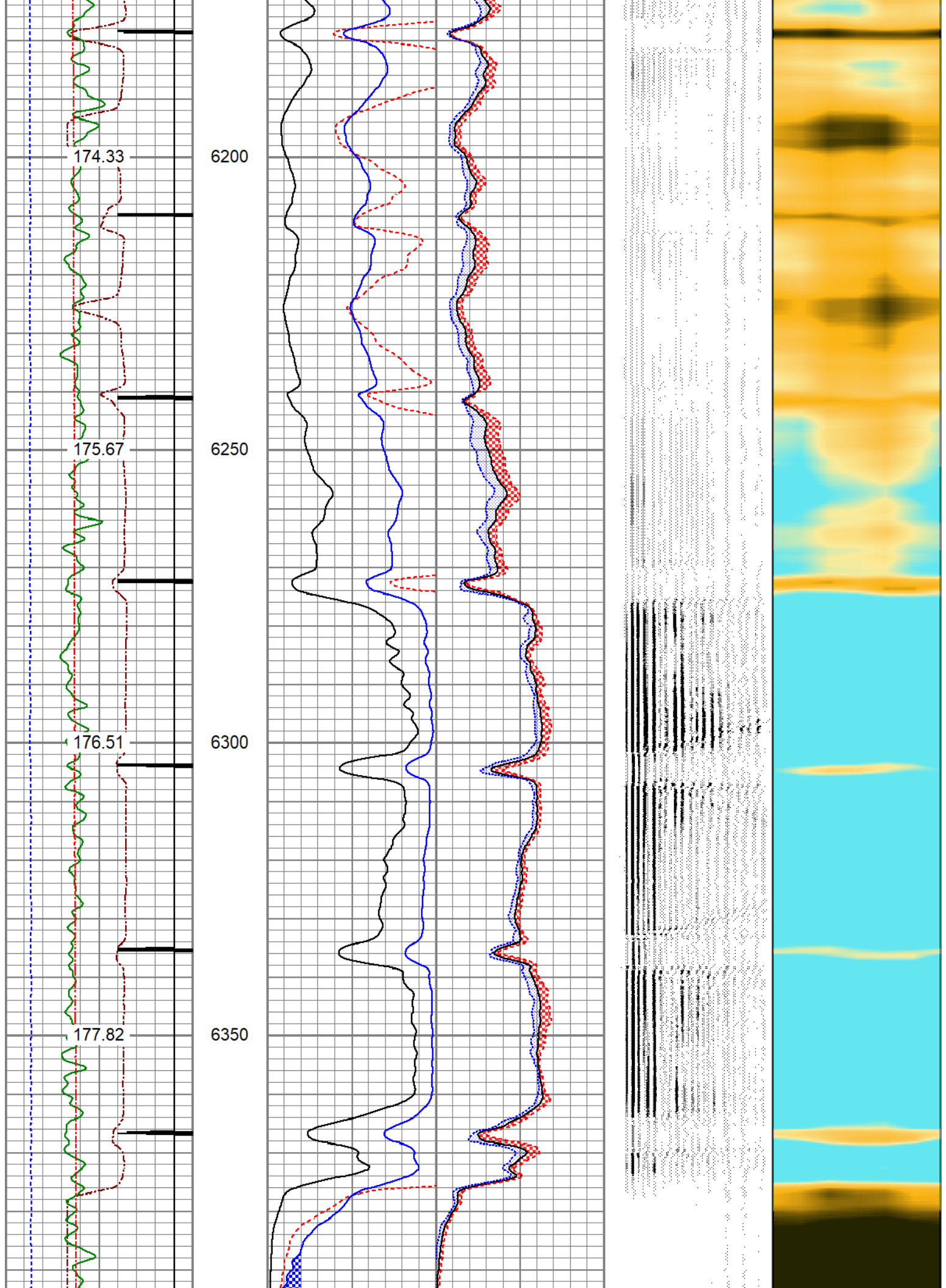


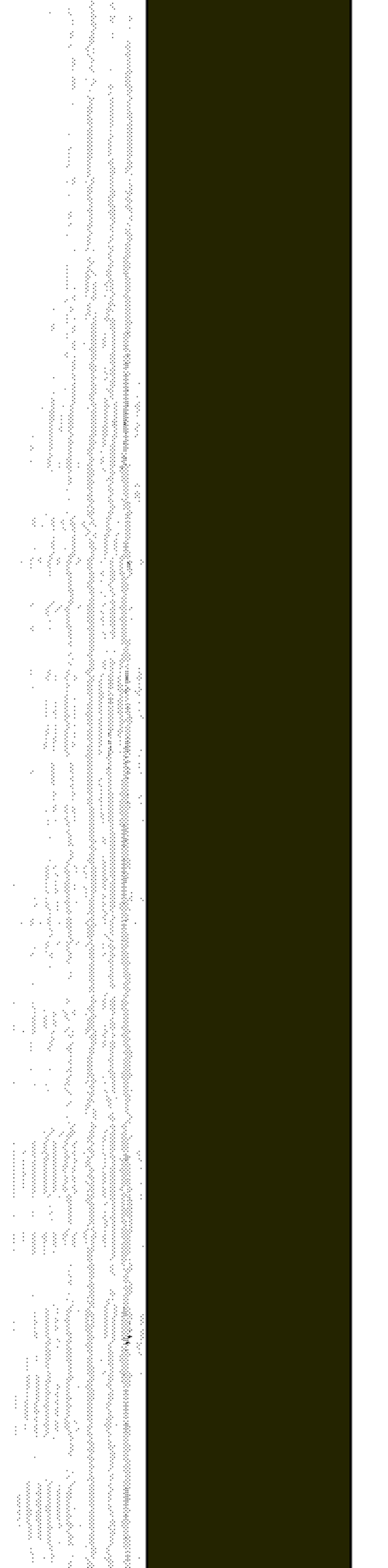
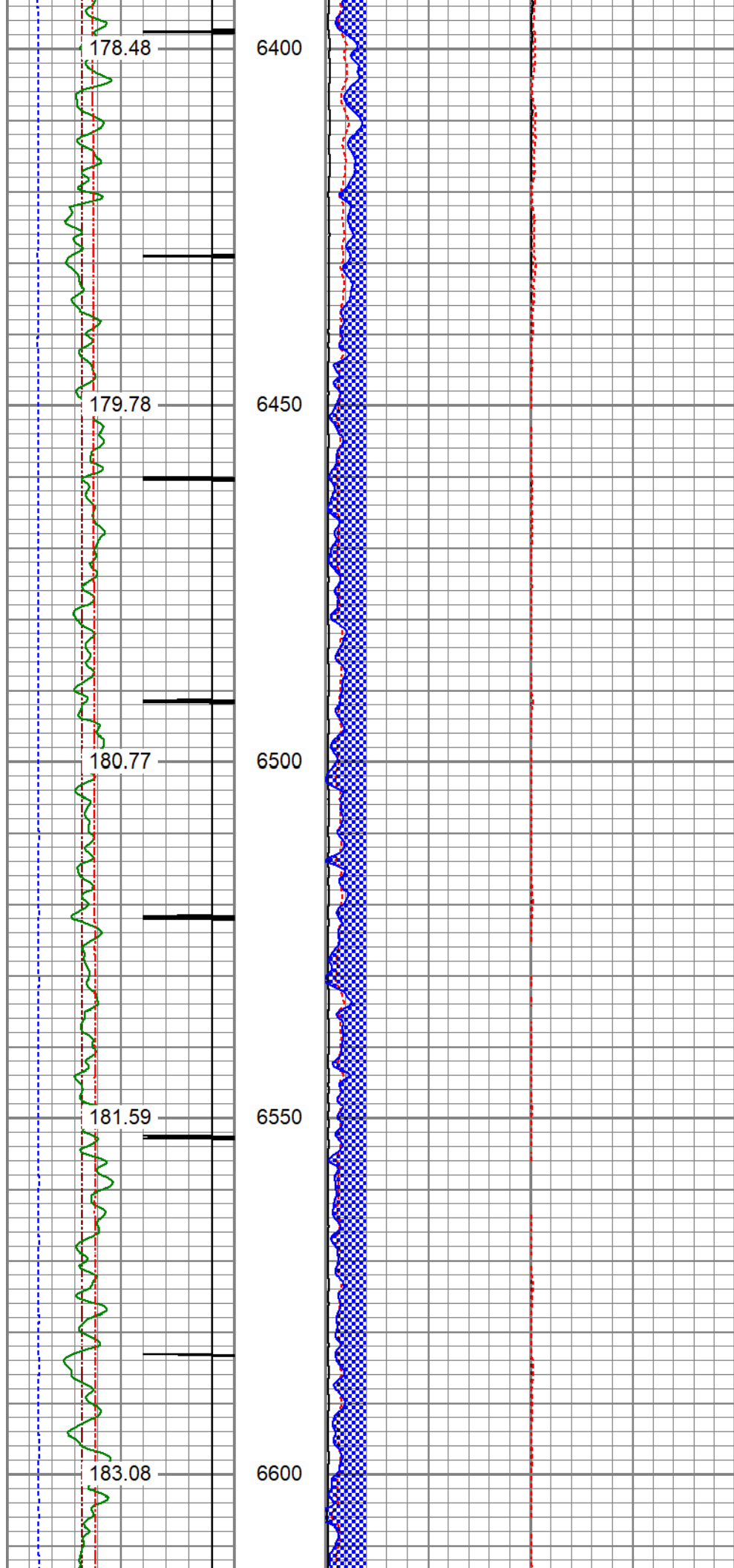


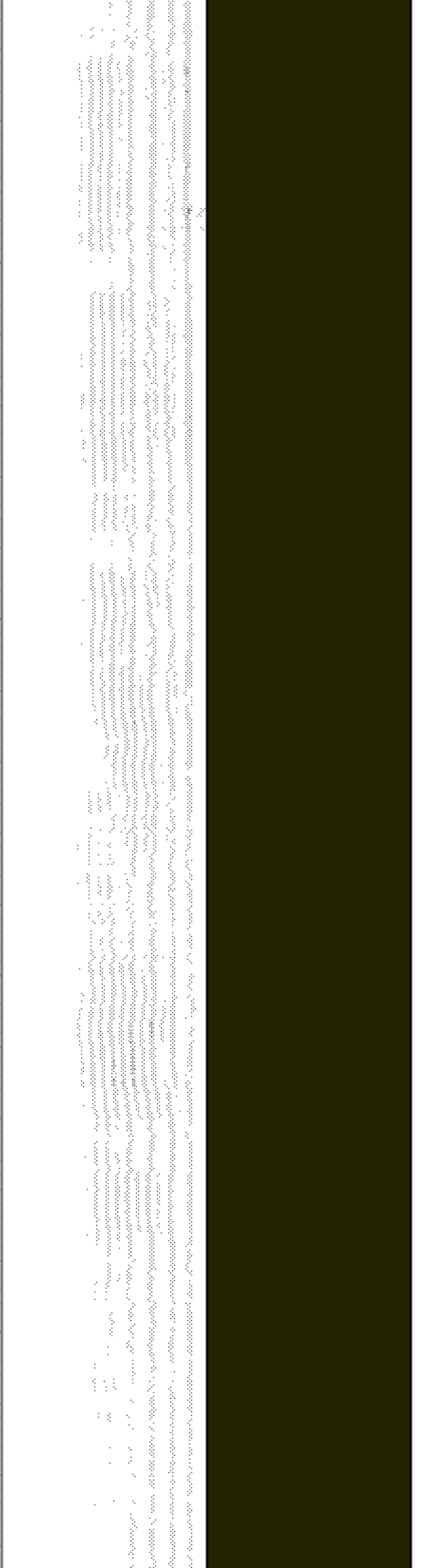
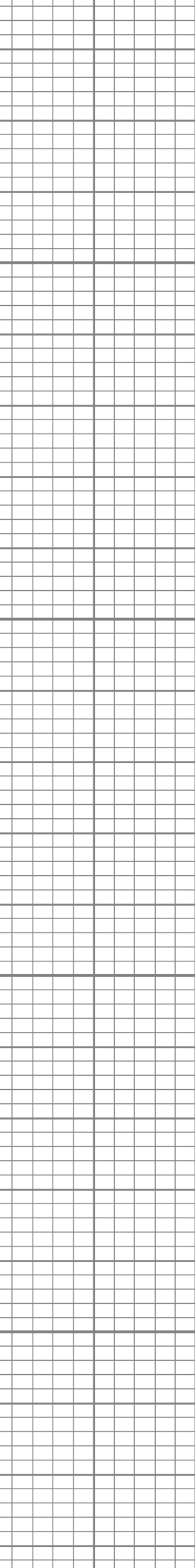
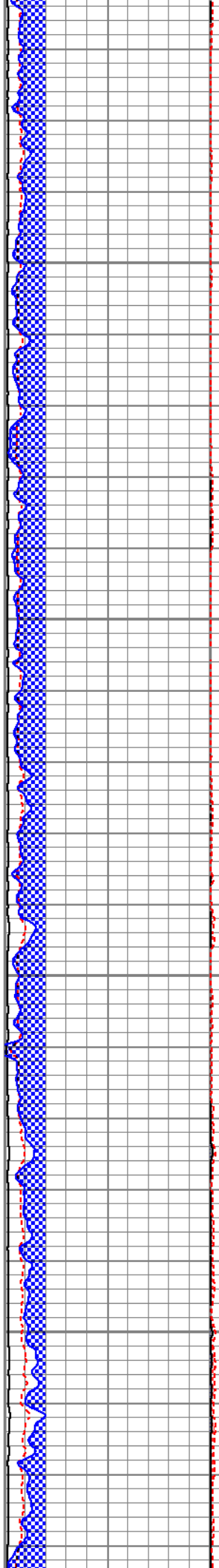
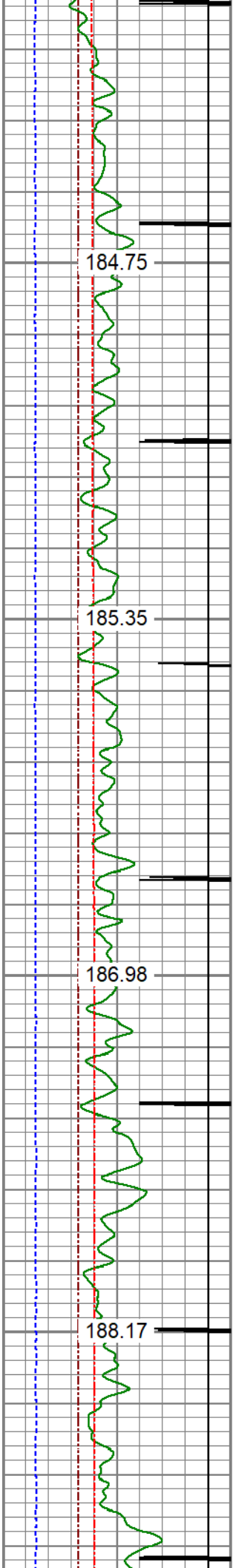


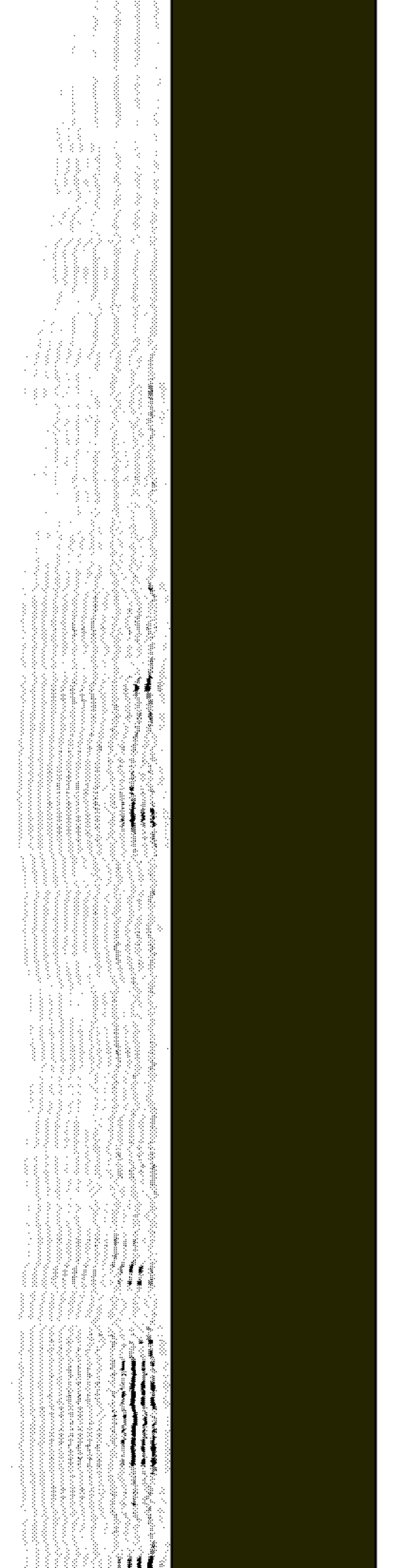
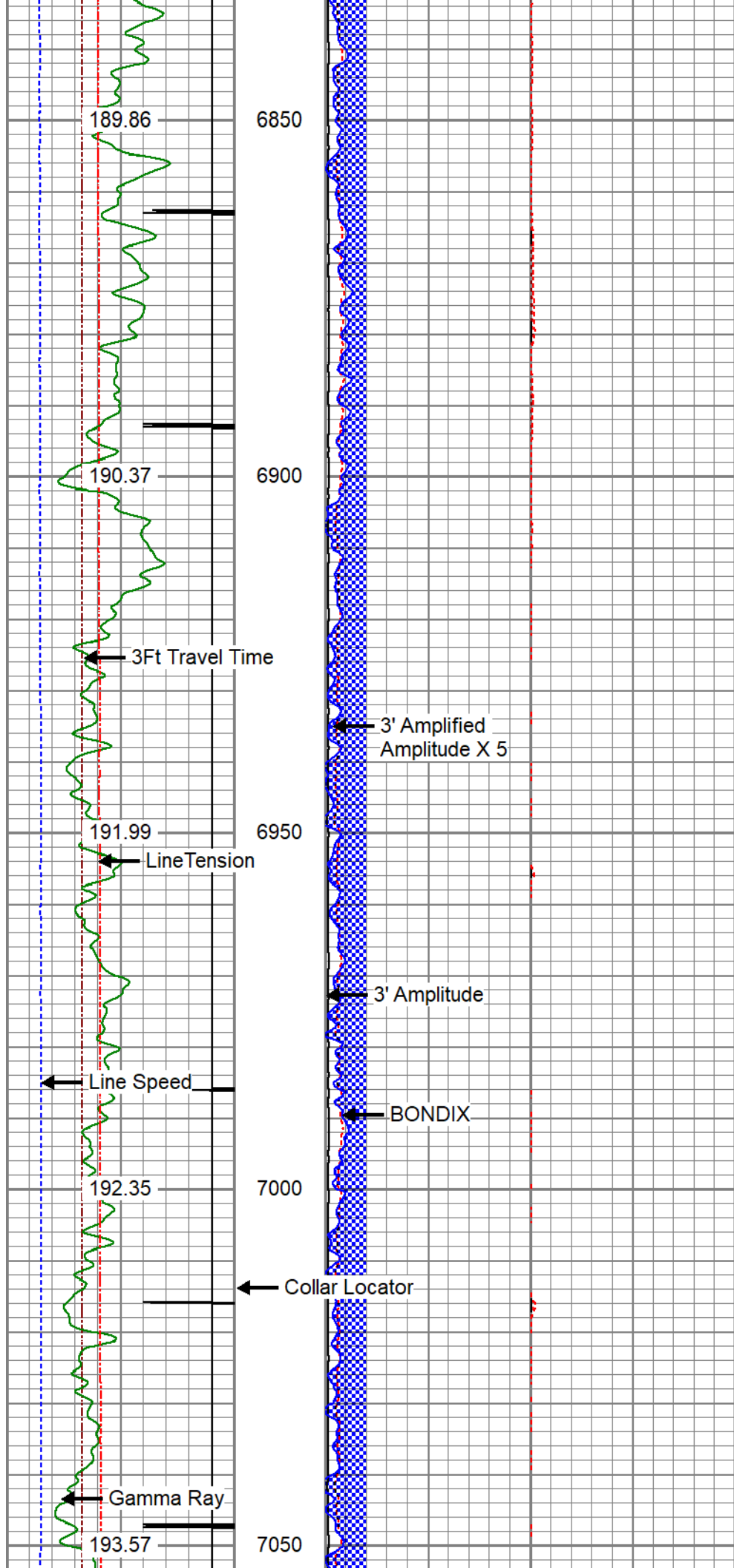


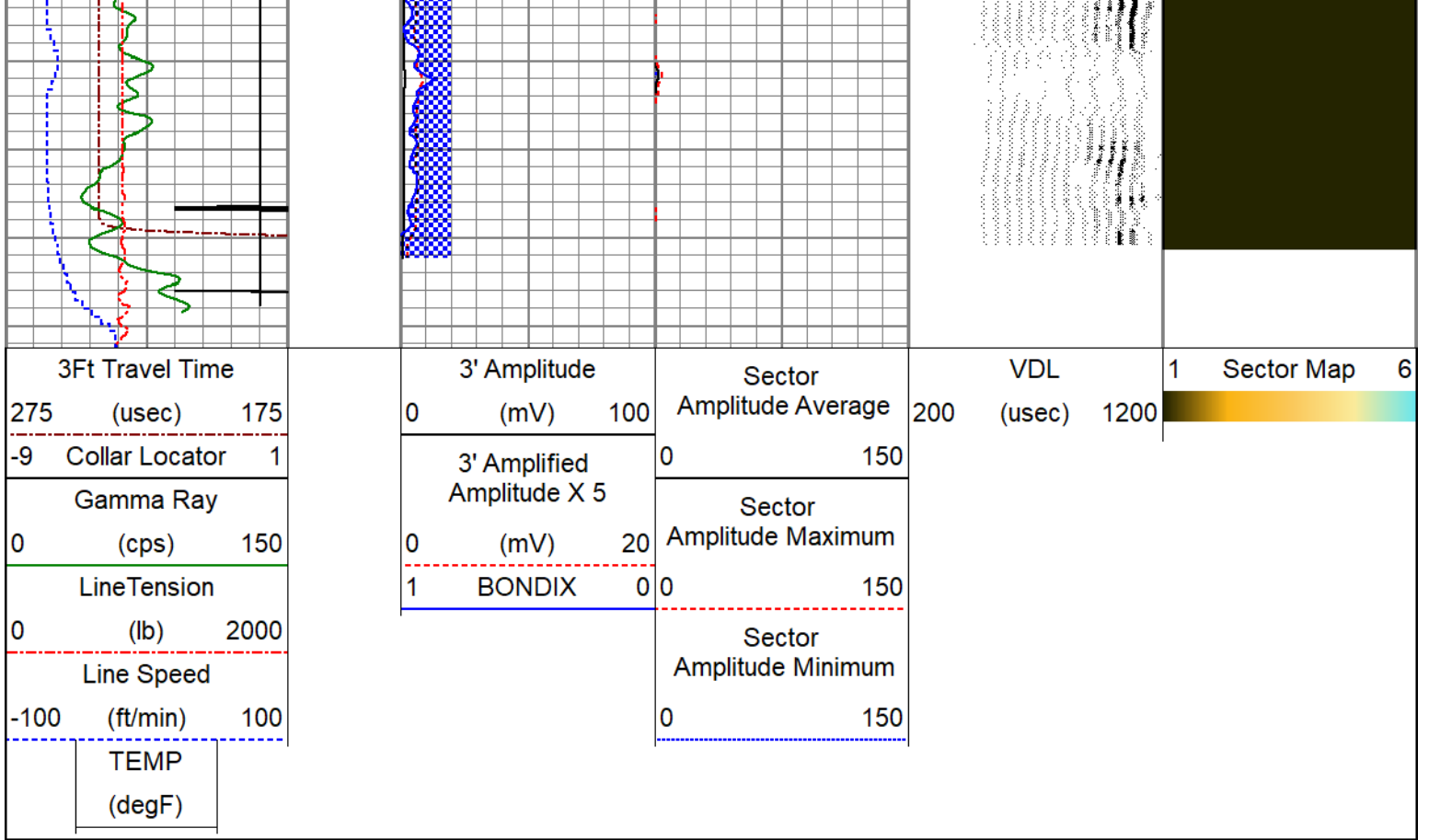










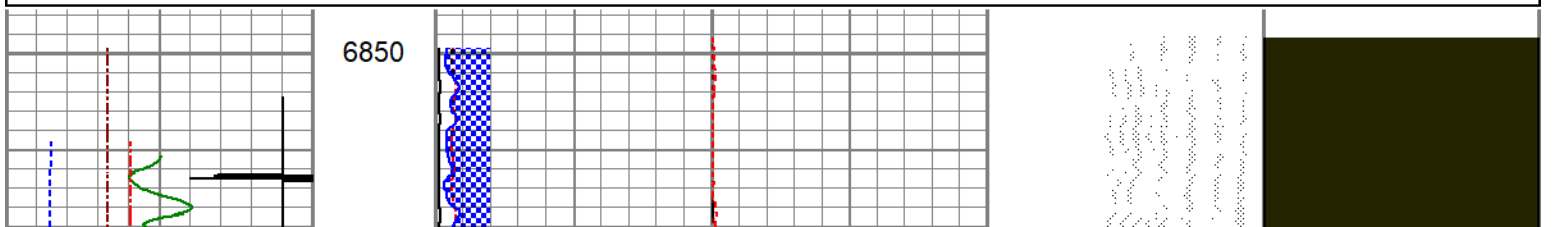
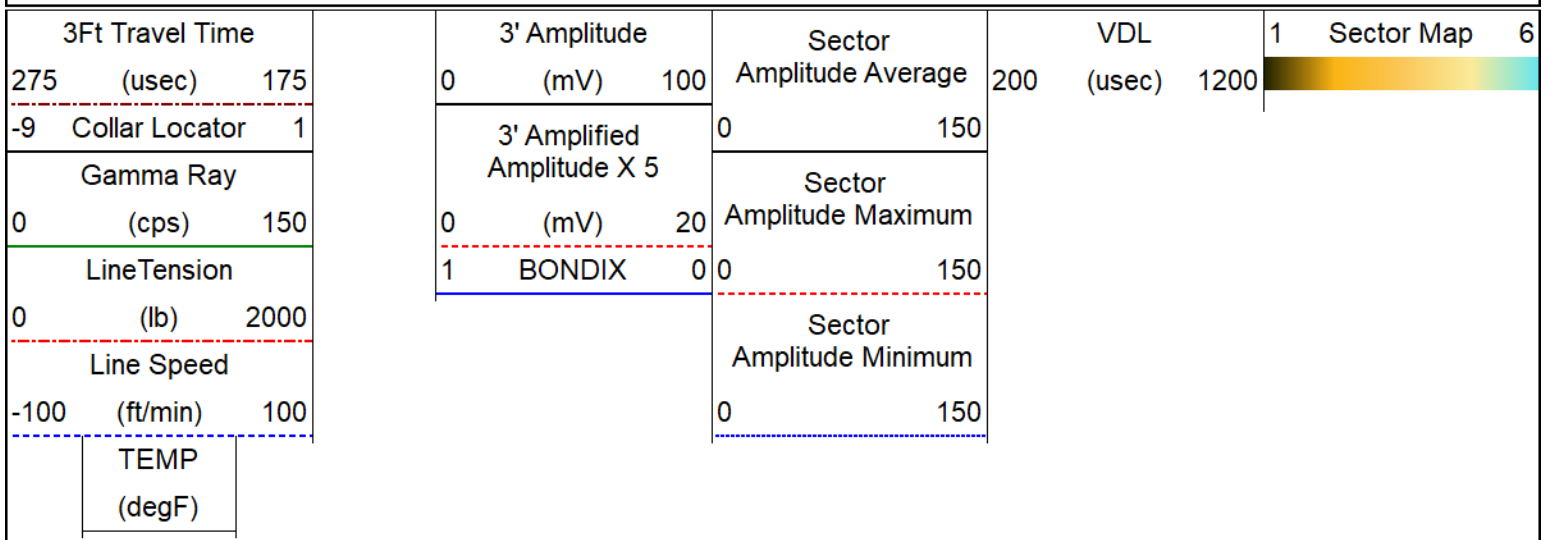


# AXIS ENERGY SERVICES

## REPEAT SECTION

### ZERO PSI APPLIED AT SURFACE

Database File oxy\_megan h 16-6\_rcbl\_4-14-23.db  
 Dataset Pathname pass8  
 Presentation Format pinr\_scbl  
 Dataset Creation Mon Apr 17 08:28:17 2023  
 Charted by Depth in Feet scaled 1:240



REPEAT SECTION

190.86 6900

REPEAT SECTION

192.23 6950

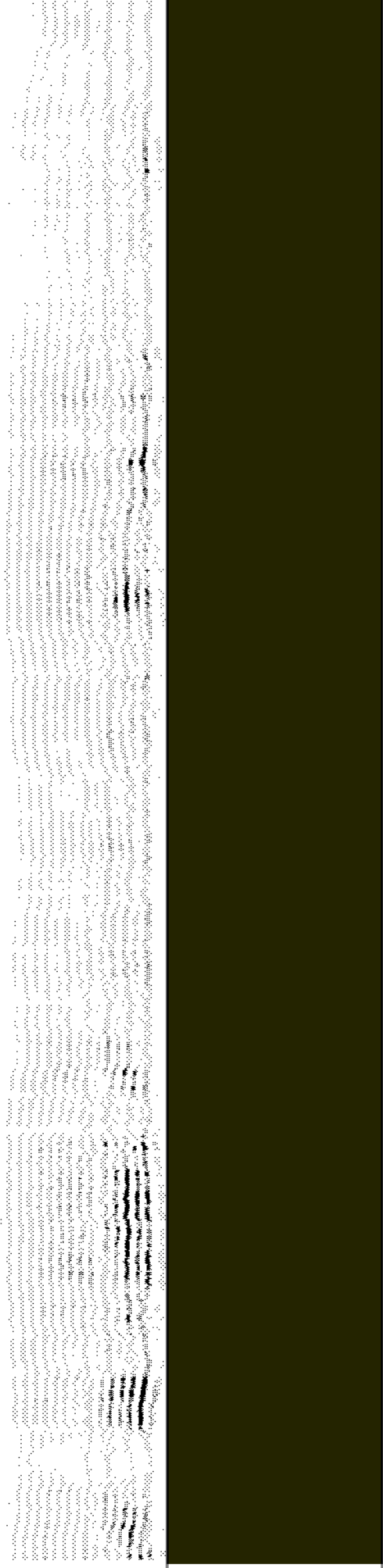
REPEAT SECTION

192.35 7000

REPEAT SECTION

193.89 7050

REPEAT SECTION



3Ft Travel Time	275 (usec)	175	3' Amplitude	0 (mV)	100	Sector Amplitude Average	200	VDL (usec)	1200	1	Sector Map	6
-9 Collar Locator		1	3' Amplified Amplitude X 5	0 (mV)	20	Sector Amplitude Maximum	0					
Gamma Ray	0 (cps)	150	1 BONDIX	0	0	Sector Amplitude Minimum	0					
Line Tension	0 (lb)	2000										
Line Speed	-100 (ft/min)	100										
TEMP (degF)												

### Calibration Report

Database File oxy\_megan h 16-6\_rcbl\_4-14-23.db  
 Dataset Pathname pass9  
 Dataset Creation Mon Apr 17 08:34:09 2023

### Gamma Ray Calibration Report

Serial Number: IDG07-04  
 Tool Model: 169 TekCo  
 Performed: Mon Apr 17 07:26:49 2023

Calibrator Value: 1.0 cps  
 Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 cps/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: ICE-J4-03  
 Tool Model: 169 TekCo w Temp

Calibration Casing Diameter: 3.500 in  
 Calibration Depth: 3876.245 ft

Master Calibration, performed Mon Apr 17 08:09:06 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	1.436	0.800	94.517	65.463	0.504
CAL	1.019	1.111				
5'	-0.003	0.714	0.800	94.517	130.591	1.245
SUM						
S1	0.136	2.256	0.000	100.000	47.174	-6.428
S2	0.106	2.001	0.000	100.000	52.775	-5.587
S3	0.162	2.186	0.000	100.000	49.400	-8.006
S4	0.156	2.363	0.000	100.000	45.315	-7.088
S5	0.209	2.485	0.000	100.000	43.938	-9.198
S6	0.155	2.463	0.000	100.000	43.324	-6.718
S7						
S8						

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.019	1.111	1.000	0.000

Air Zero Calibration, performed Mon Apr 17 07:25:53 2023:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7						
S8						

Temperature Calibration Report

Serial Number: ICE-J4-03  
 Tool Model: 169 TekCo w Temp  
 Performed: Fri Mar 17 12:08:20 2023

	Reference	Reading
Low Reference:	0.00 degF	0.00 usec
High Reference:	1.00 degF	1.00 usec
Gain:	0.25	
Offset:	0.00	
Delta Spacing	1	



Company ANADARKO PETROLEUM CORP  
 Well MEGAN H 16-6  
 Field WATTENBERG  
 County WELD  
 State CO