



# PIONEER

Pioneer Energy Services

## RADIAL BOND LOG WITH GAMMA RAY

Comp. HIGHPOINT OPERATING CORP.  
Well WETCO 4-63-05-4033CB  
Field WATTENBERG  
Co. WELD  
State COLORADO

Company **HIGHPOINT OPERATING CORP.**  
Well **WETCO 4-63-05-4033CB**  
Field **WATTENBERG**  
County **WELD** State **COLORADO**

Location: API #: 05-123-48495  
2244 FSL & 779 FWL  
NW SW  
SEC 4 TWP 4N RGE 63W  
Permanent Datum GL Elevation 4623'  
Log Measured From KB 16.5 Above Perm. Datum  
Drilling Measured From KB  
Other Services  
NONE  
K.B. 4639.5  
D.F. N/A  
G.L. 4623'

Date of Service	14 JANUARY 2018		
Run Number	ONE		
Depth Driller or PBTD	6867'		
Depth Logger	6736'		
Bottom Log Interval	6736'		
Top Log Interval	SURFACE		
Open Hole Size	8.75"		
Type Fluid	WATER		
Fluid Level	214'		
Fluid Density	N/A		
Max. Recorded Temperature	226 F		
Max. Wellhead Pressure	ZERO		
Wellhead Connection	OPEN		
Estimated Cement Top	N/A		
Unit Number	P-135		
Wireline Size	9/32"		
Location	FORT MORGAN		
Recorded By	SCHOENROGGE		
Witnessed By	MR.BECKSTEAD		
	Size	Wt/Ft	Top
Tubing Record			Bottom
Surface Casing	9.625"	36#	SURFACE 839'
Production Casing	7"	23#	SURFACE 6903'
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.  
DEPTHS ARE WIRELINE  
NO FREE PIPE PASS. CUSTOMER REPORTED CEMENT RETURNS.  
RAN SHOP CALIBRATIONS.

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: SCHOENROGGE Operator: ELSENPETER Operator: COBIAN Operator:	SEE DIAGRAM PLUS	OVERBODIES

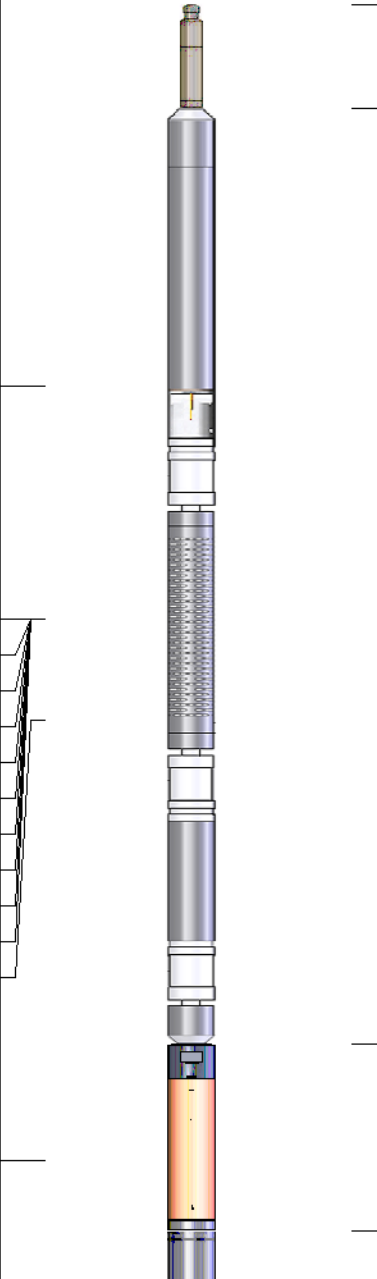
Top - Bottom

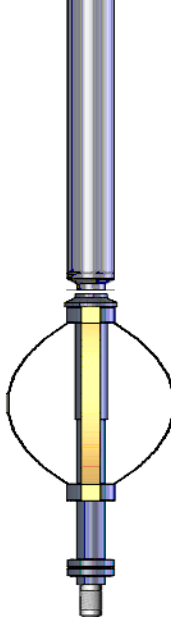
BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL
TEMP	in 8.75	degF 200	in 7	in 0.317	lb/ft 23	mV 62.2
MINAMPL	MINATTN	PERFS	PPT	SRFTEMP	TDEPTH	
mV 1	db/ft 0.8	0	usec 287	degF 50	ft 6900	


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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	14.89		Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			PROBE-RBT-DIGITAL-RBL-DCT (FW1411-9.21) Probe 2 3/4" Radii Bond with Temp-Corrosion Package	11-9.21)	2.75	105.00
			CCL_Logging-275 TekCo_2 (TekCo-275) 2 3/4"	1.83	2.75	15.00
WVFS8	12.59					
WVFS7	12.59					
WVFS6	12.59					
WVFS5	12.59					
WVFS4	12.59					
WVFS3	12.59					
WVFS2	12.59					
WVFS1	12.59					
WVFCAL	12.59					
WVF3FT	12.59					
WVF5FT	11.59					
CCL	7.26					


GR	4.03		GR-275 Probe (080629) Probe 2.75" Gamma Ray	3.36	2.75	40.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00
Dataset:		highpoint_wetco 4-63-5-4033cb_0512348495_20180114_scbl.db: field/well/run1/MAIN				
Total length:		18.65 ft				
Total weight:		178.00 lb				
O.D.:		2.75 in				

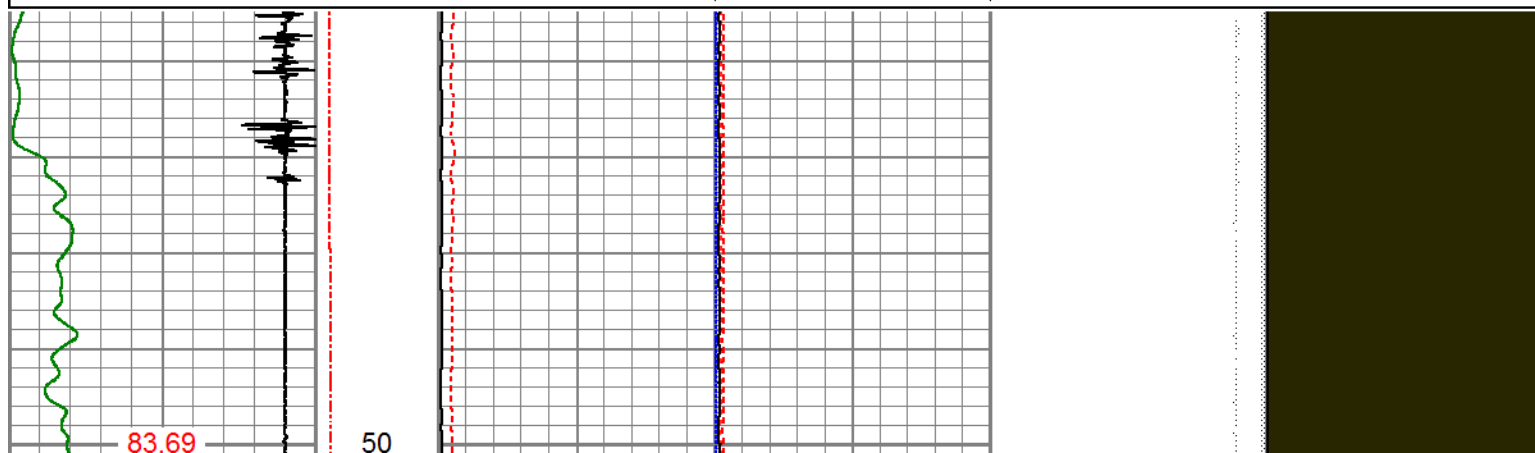


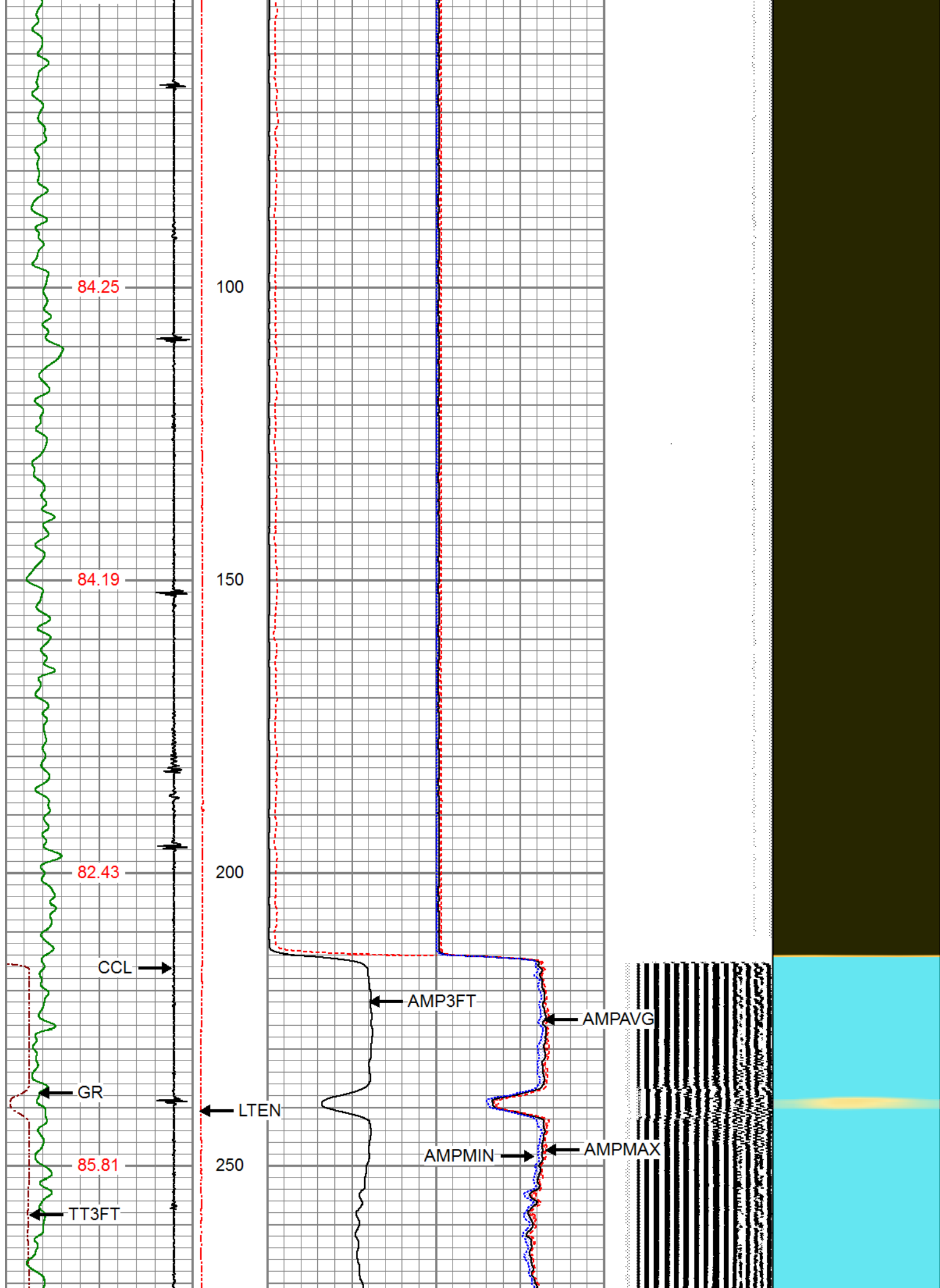
# MAIN LOG

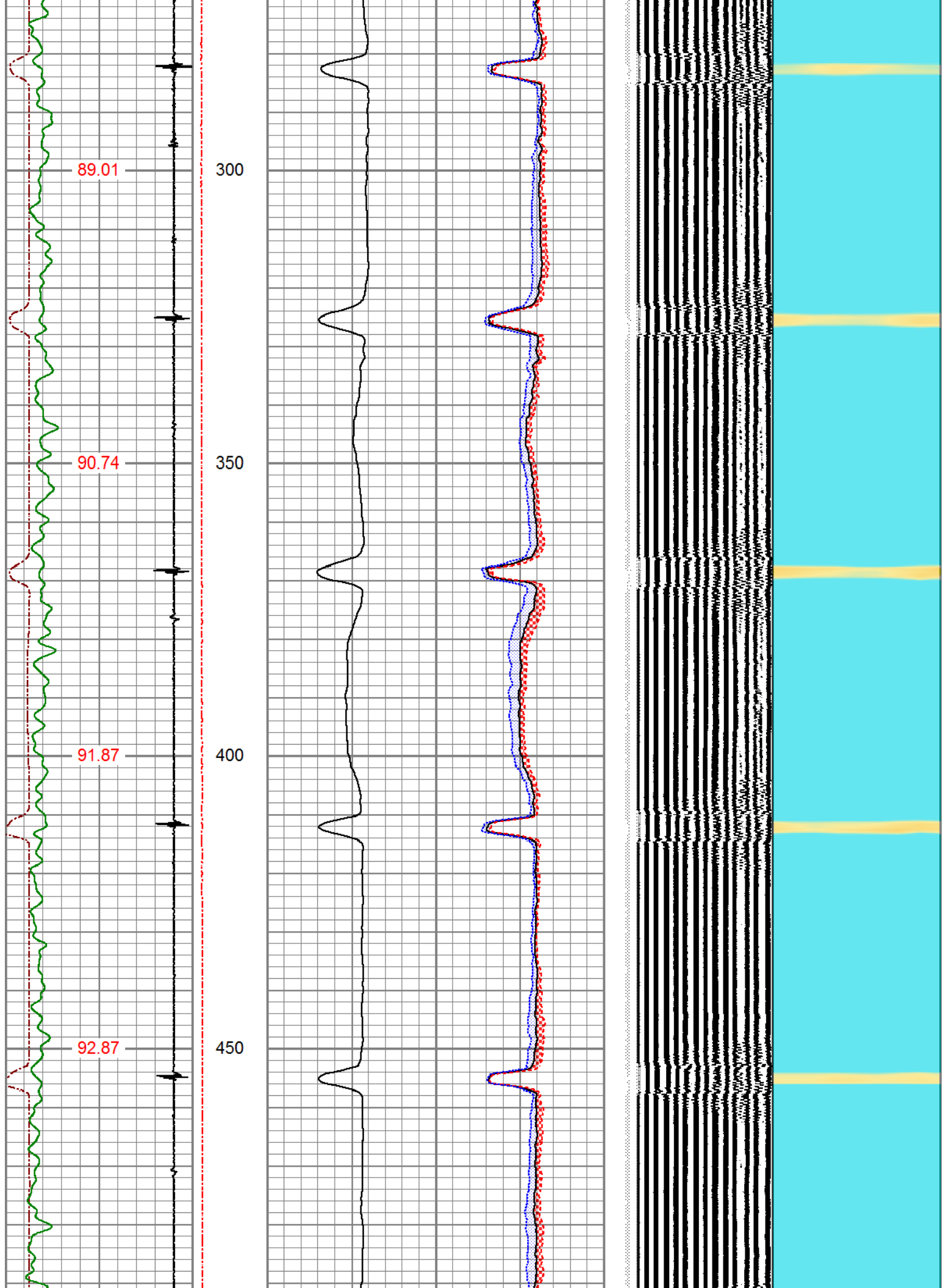
## ZERO PSI APPLIED AT SURFACE

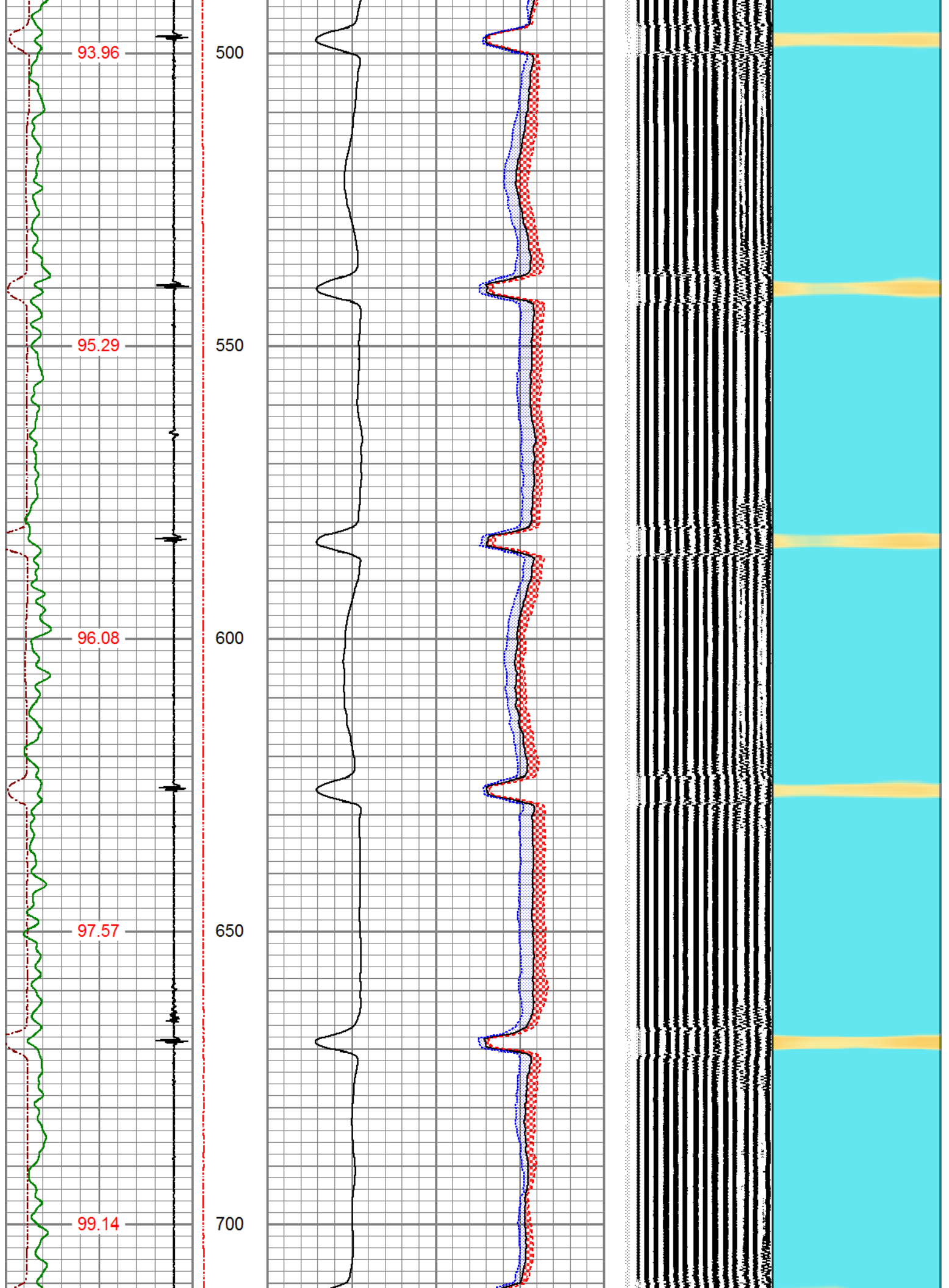
Database File	highpoint_wetco 4-63-5-4033cb_0512348495_20180114_scbl.db
Dataset Pathname	MAIN
Presentation Format	pinr_scbl
Dataset Creation	Mon Jan 14 10:35:45 2019
Charted by	Depth in Feet scaled 1:240

3Ft Travel Time	ineTensio	3' Amplitude	Sector	VDL	1	Sector Map	8
297 (usec) 197	(lb)	0 (mV) 100	Amplitude Average	200 (usec) 1200			
-9 Collar Locator 1	0 2000	3' Amplified Amplitude X 5	0 150				
Gamma Ray		0 (mV) 20	Sector Amplitude Maximum				
0 (GAPI) 150			0 150				
TEMP (degF)			Sector Amplitude Minimum				
			0 150				

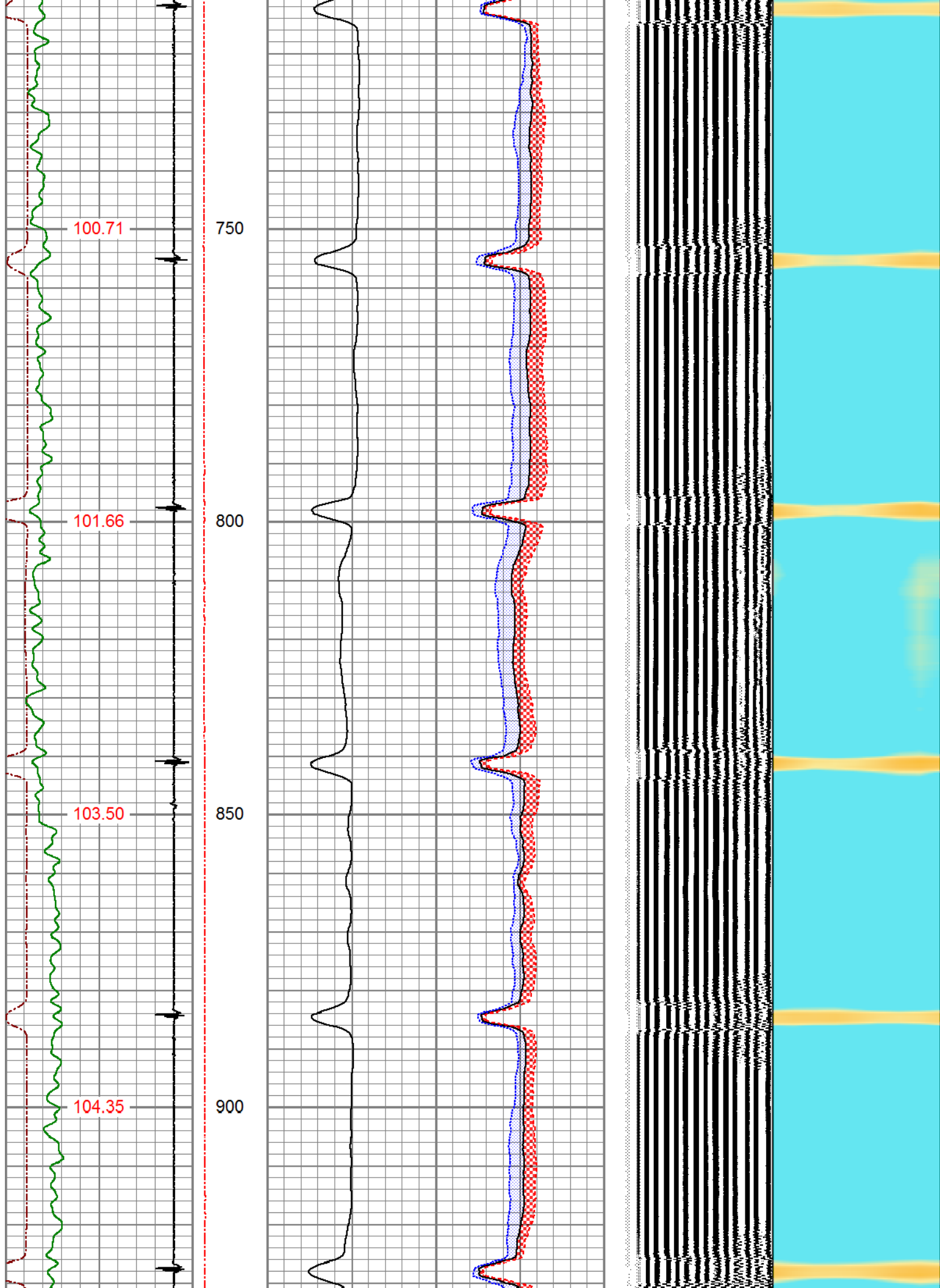


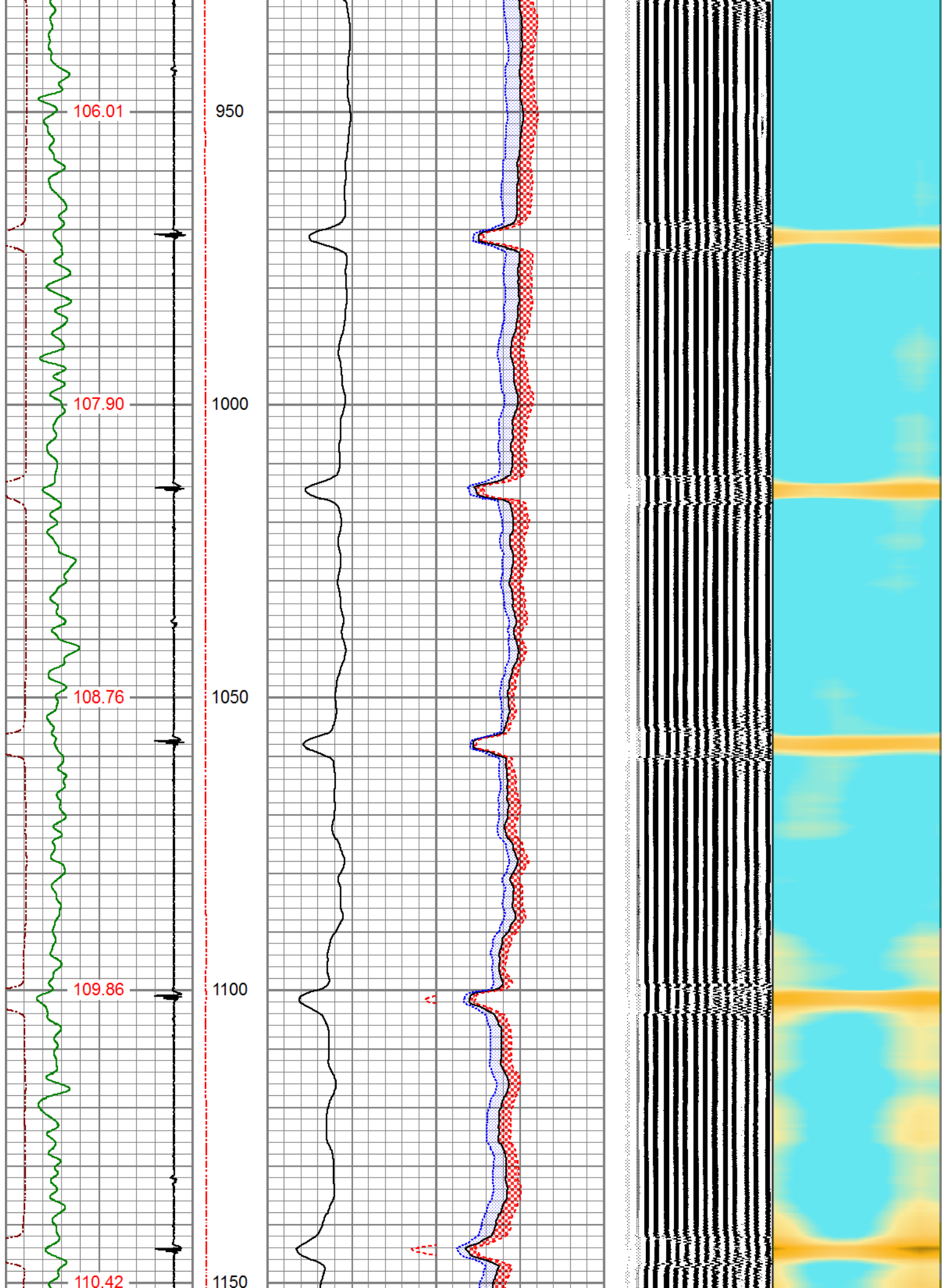




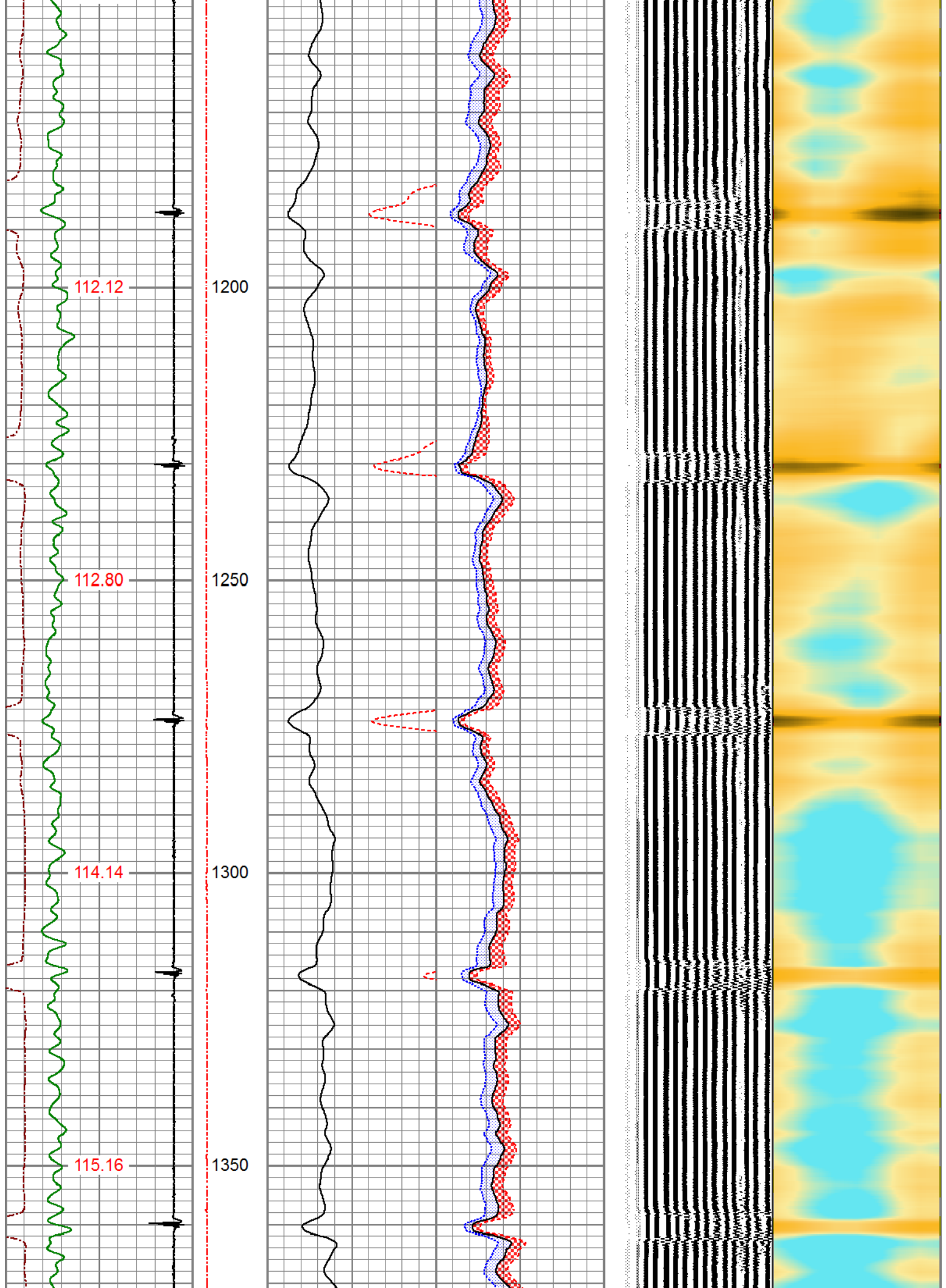


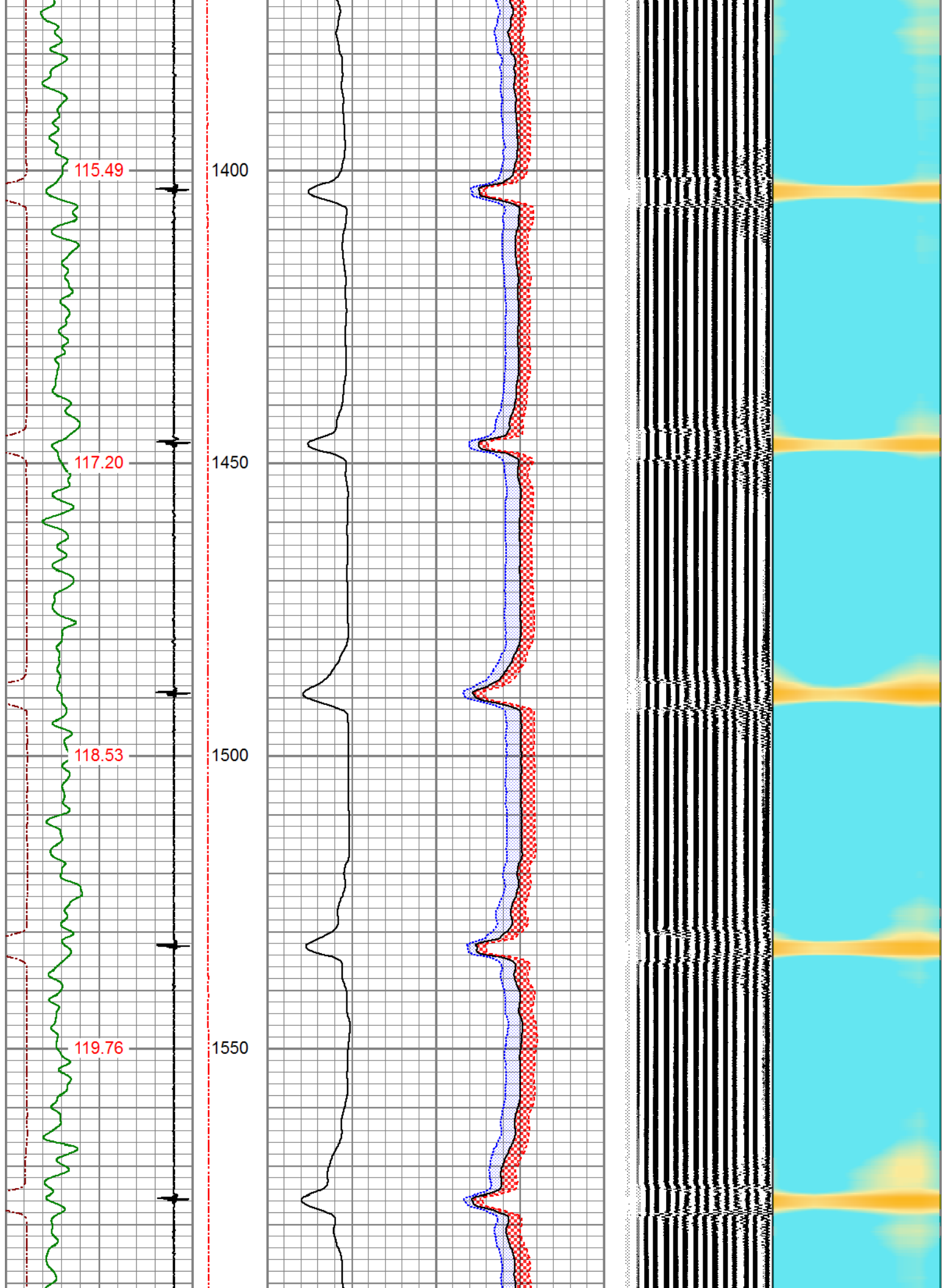


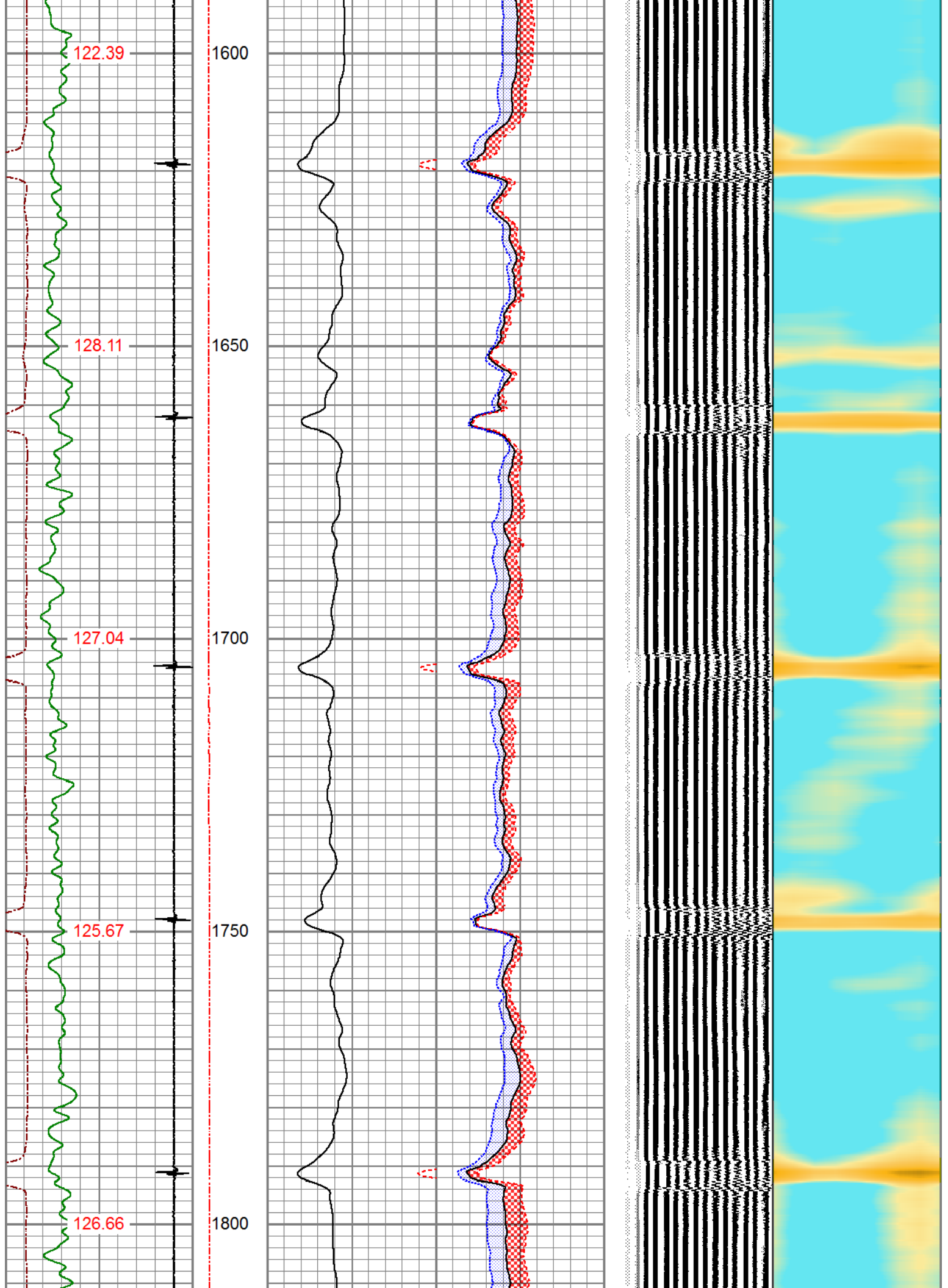


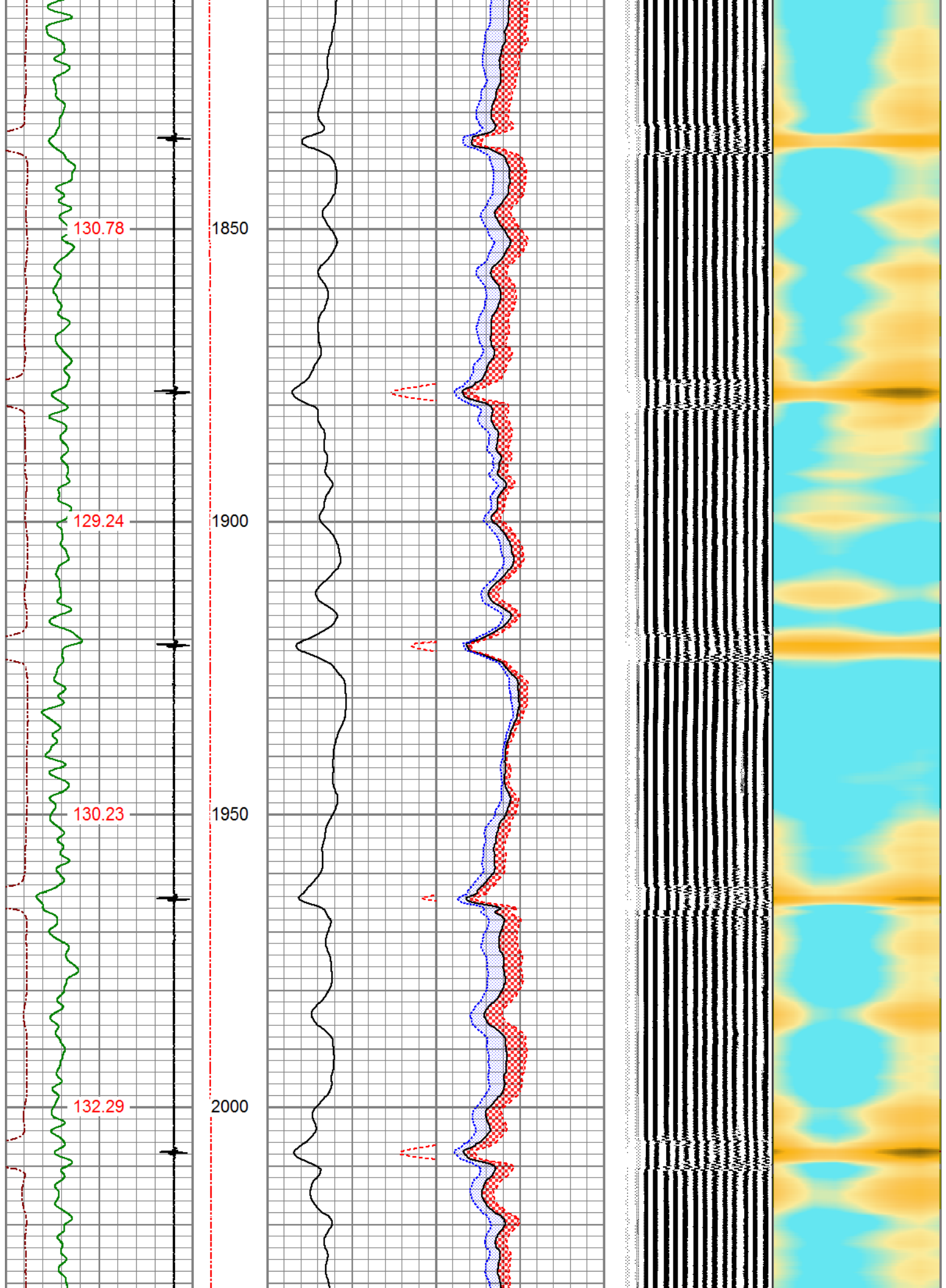




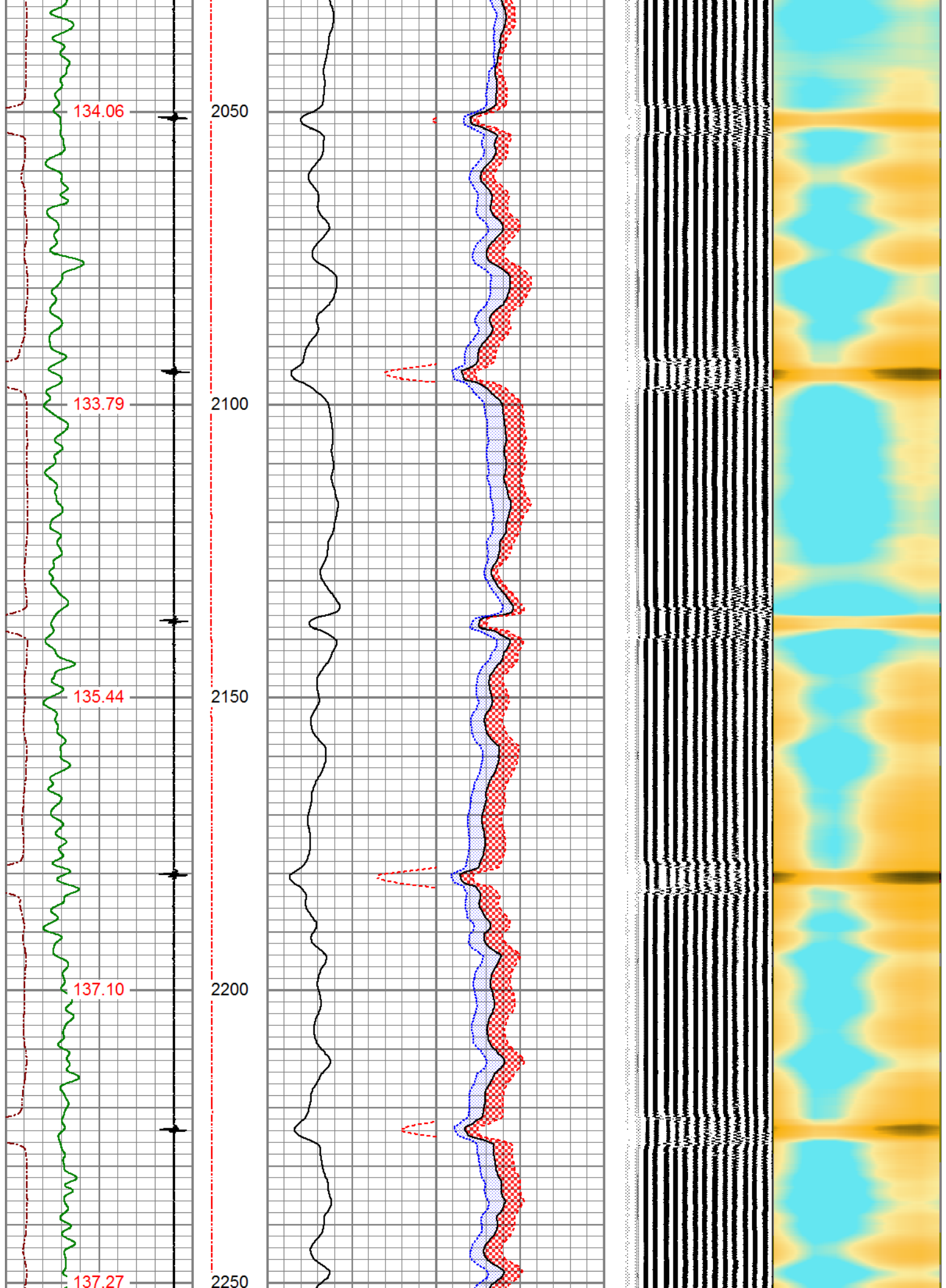


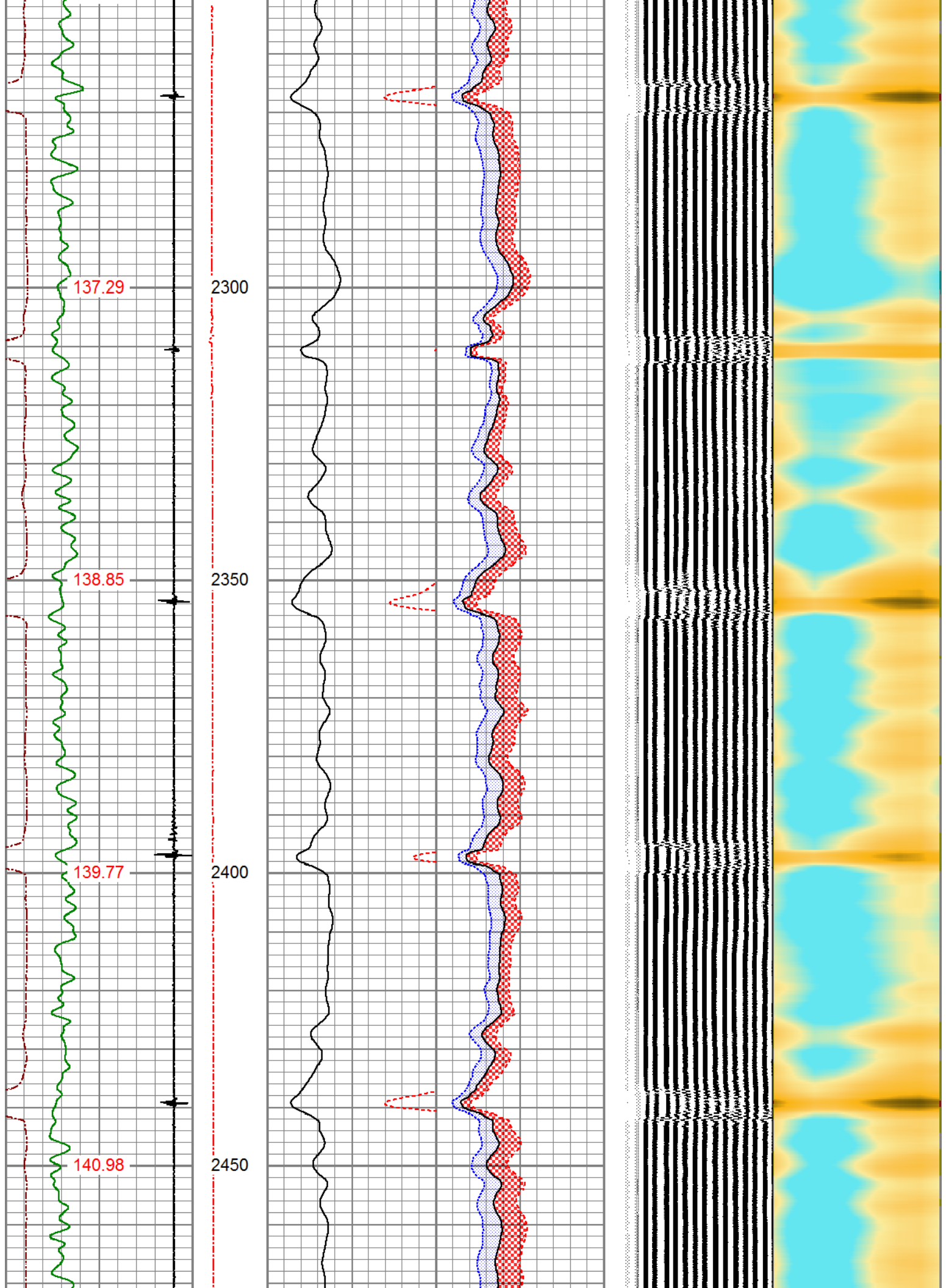




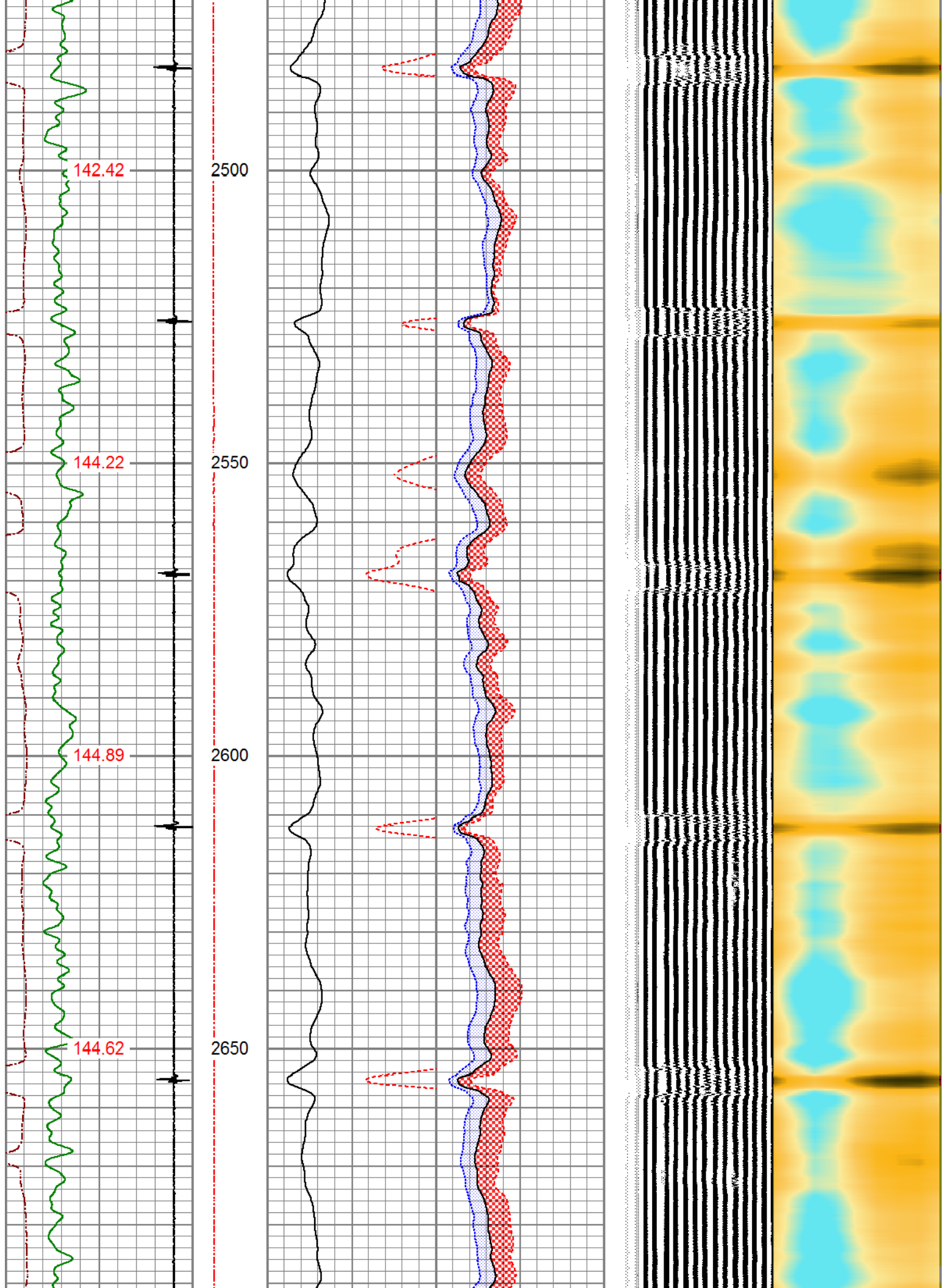


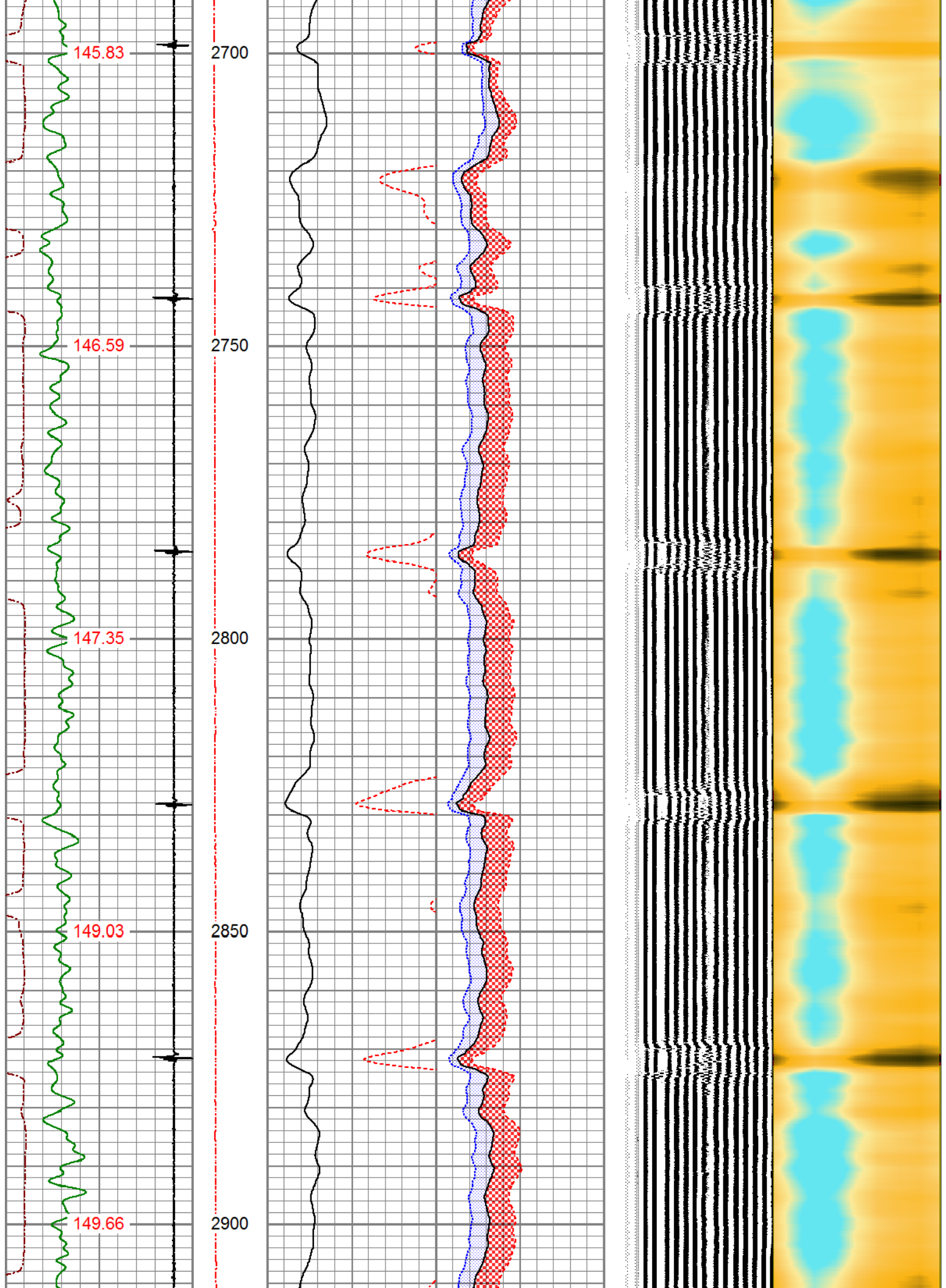


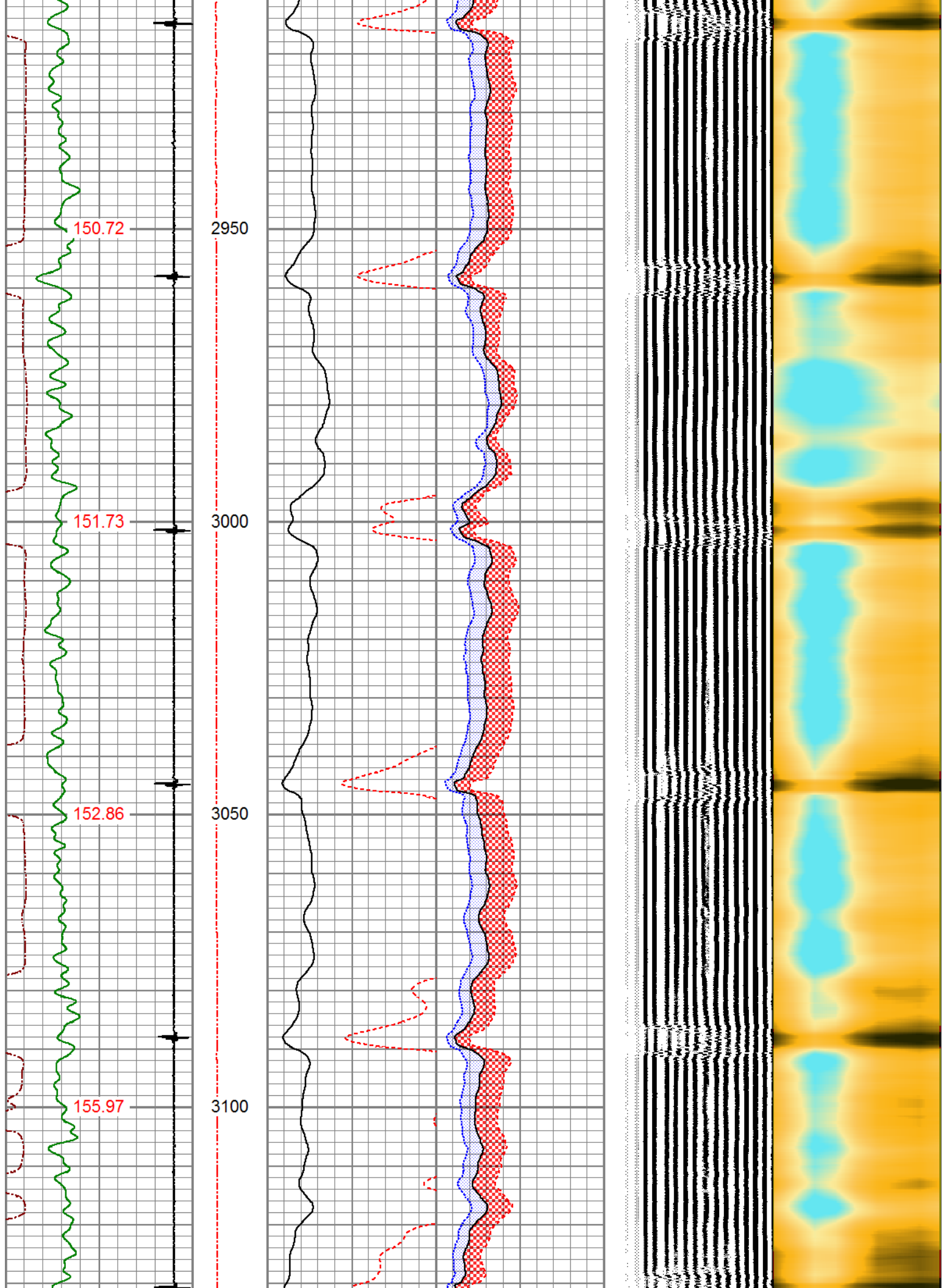


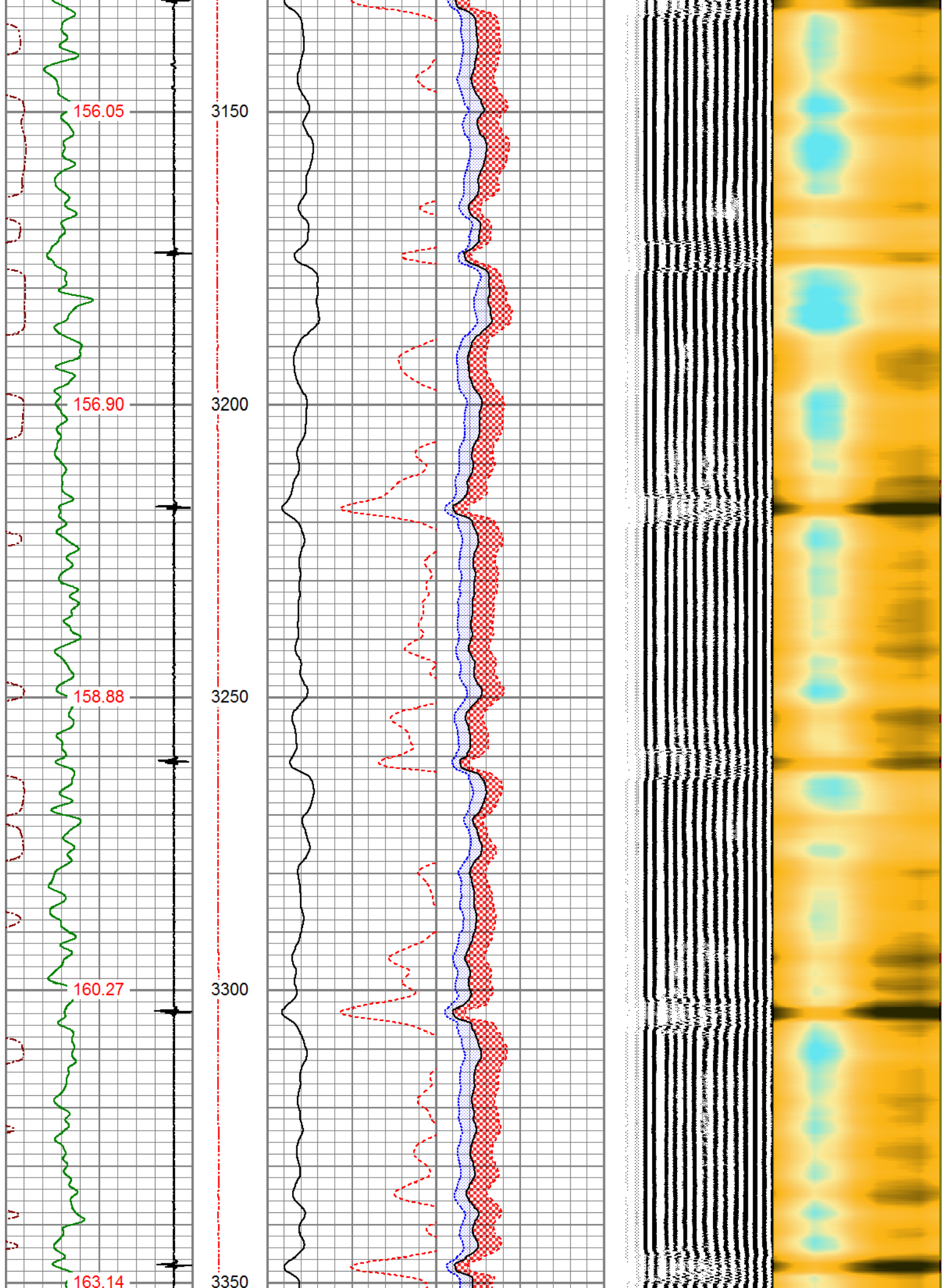




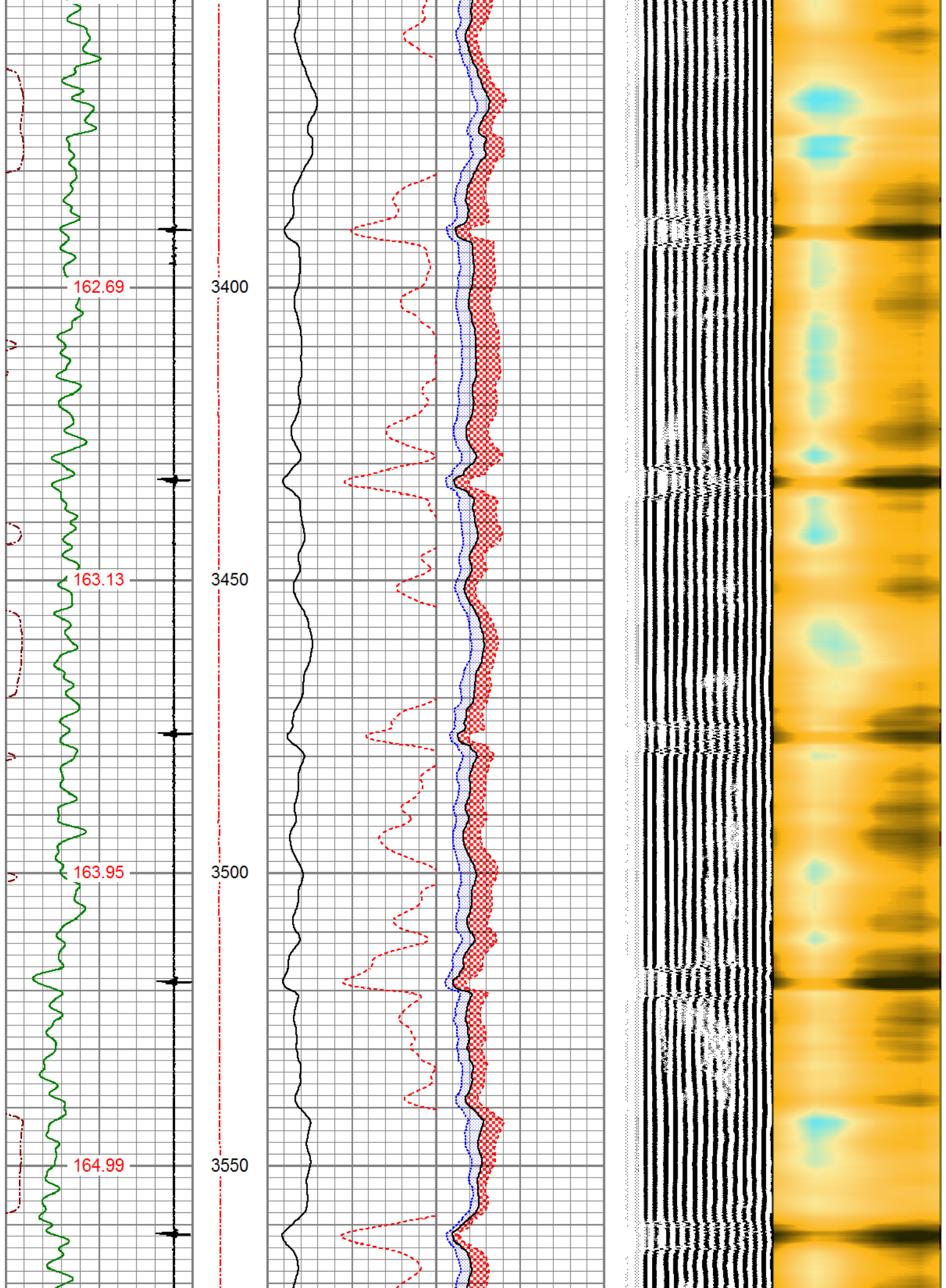


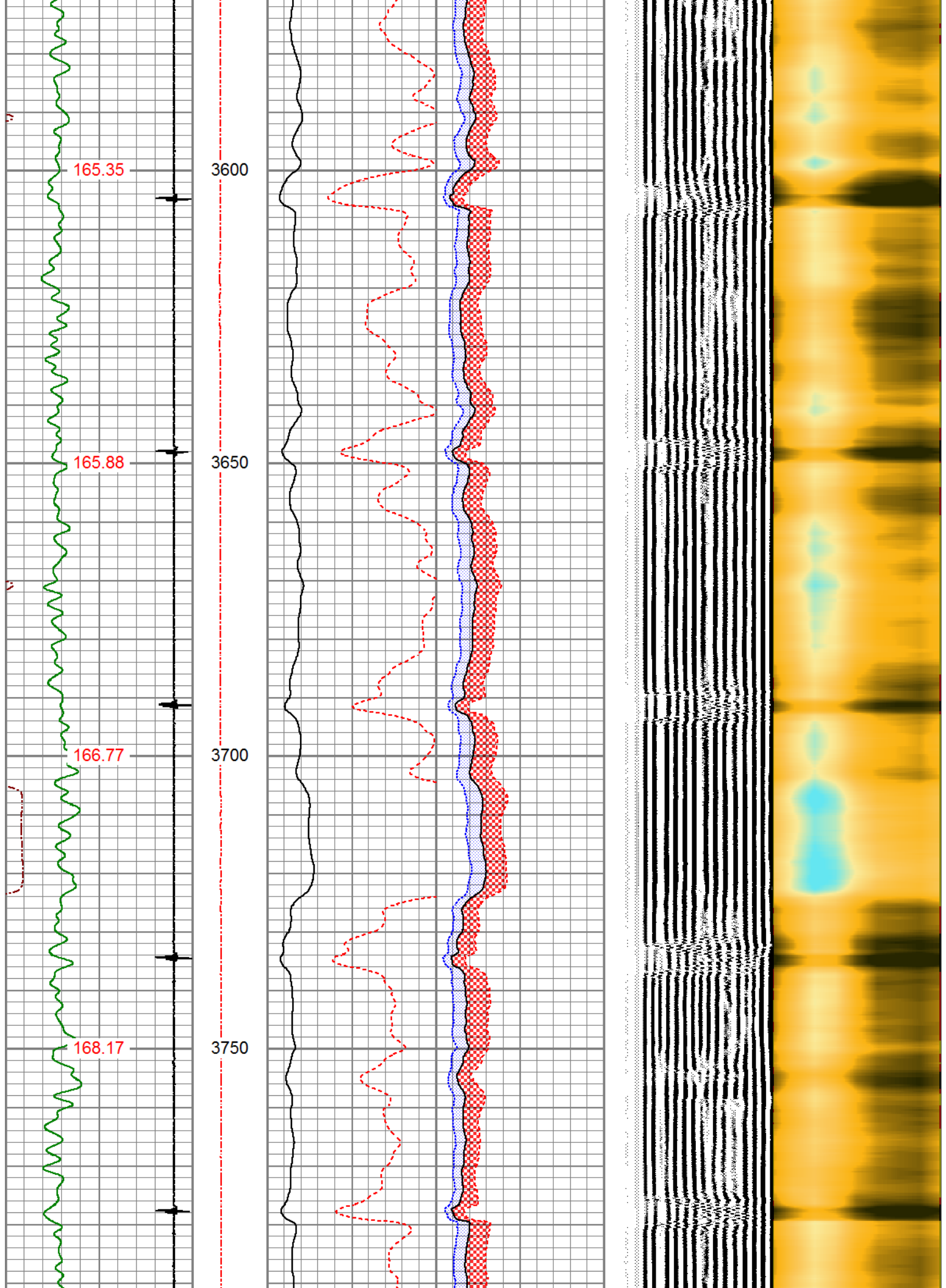




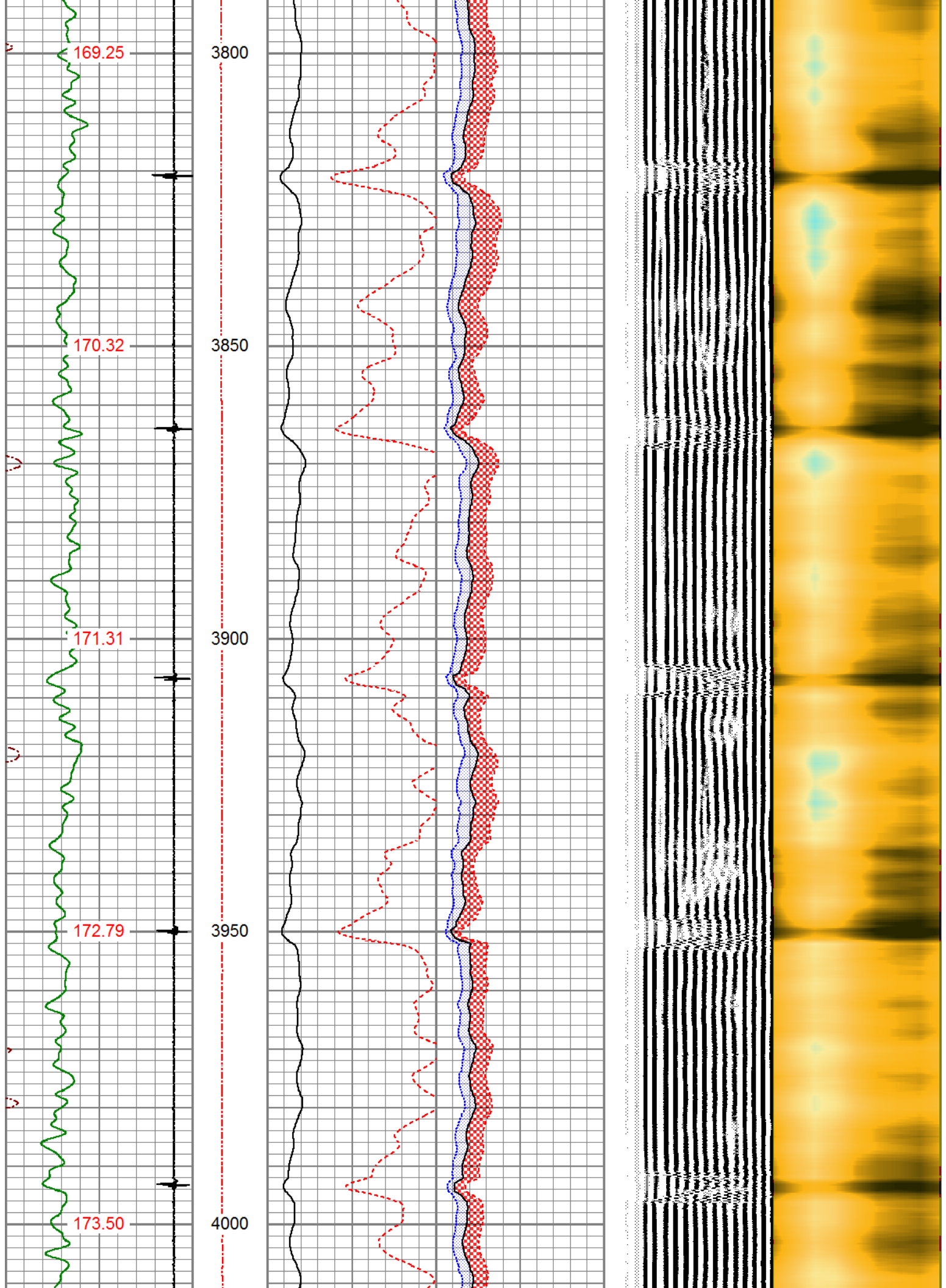


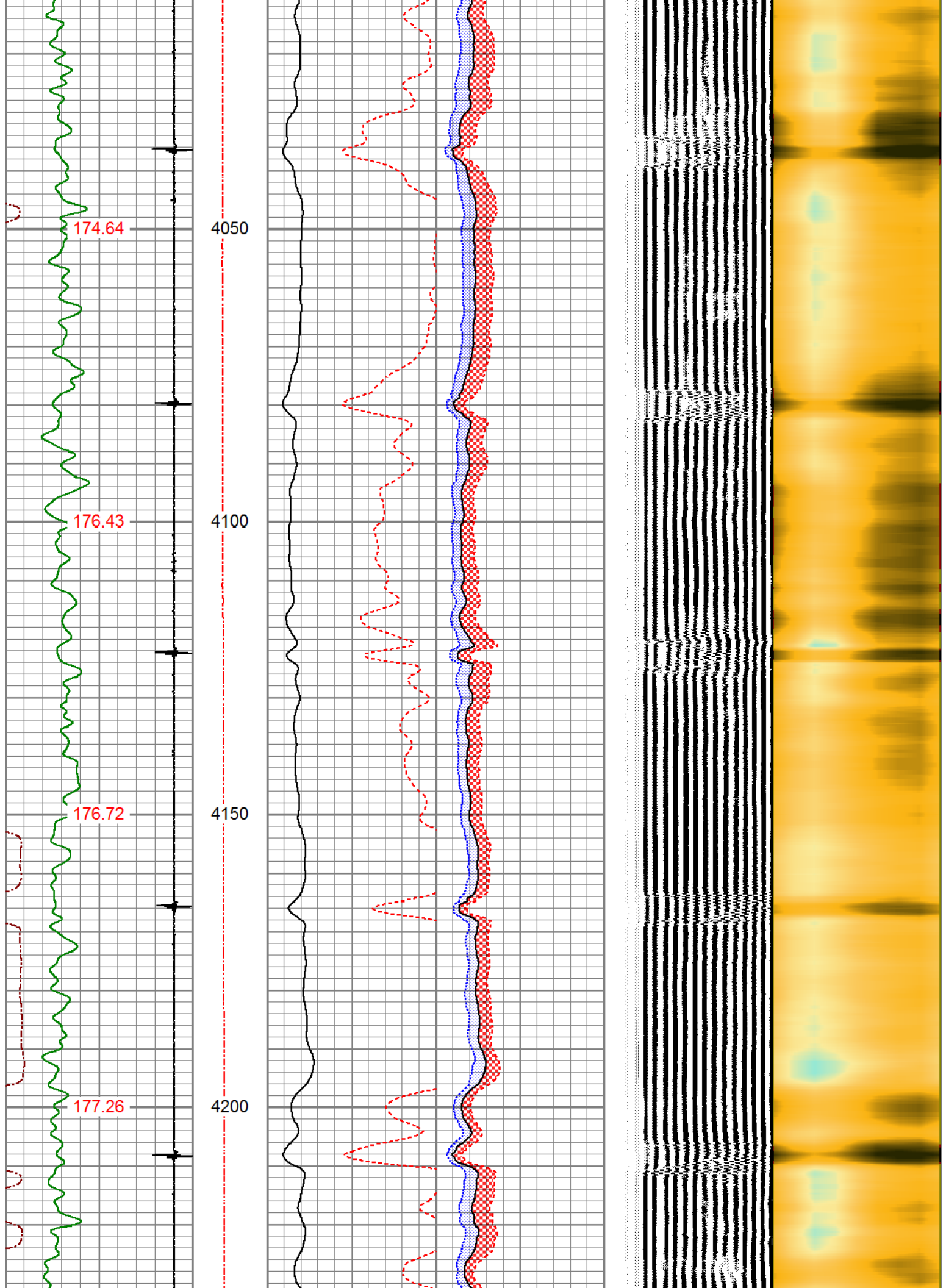


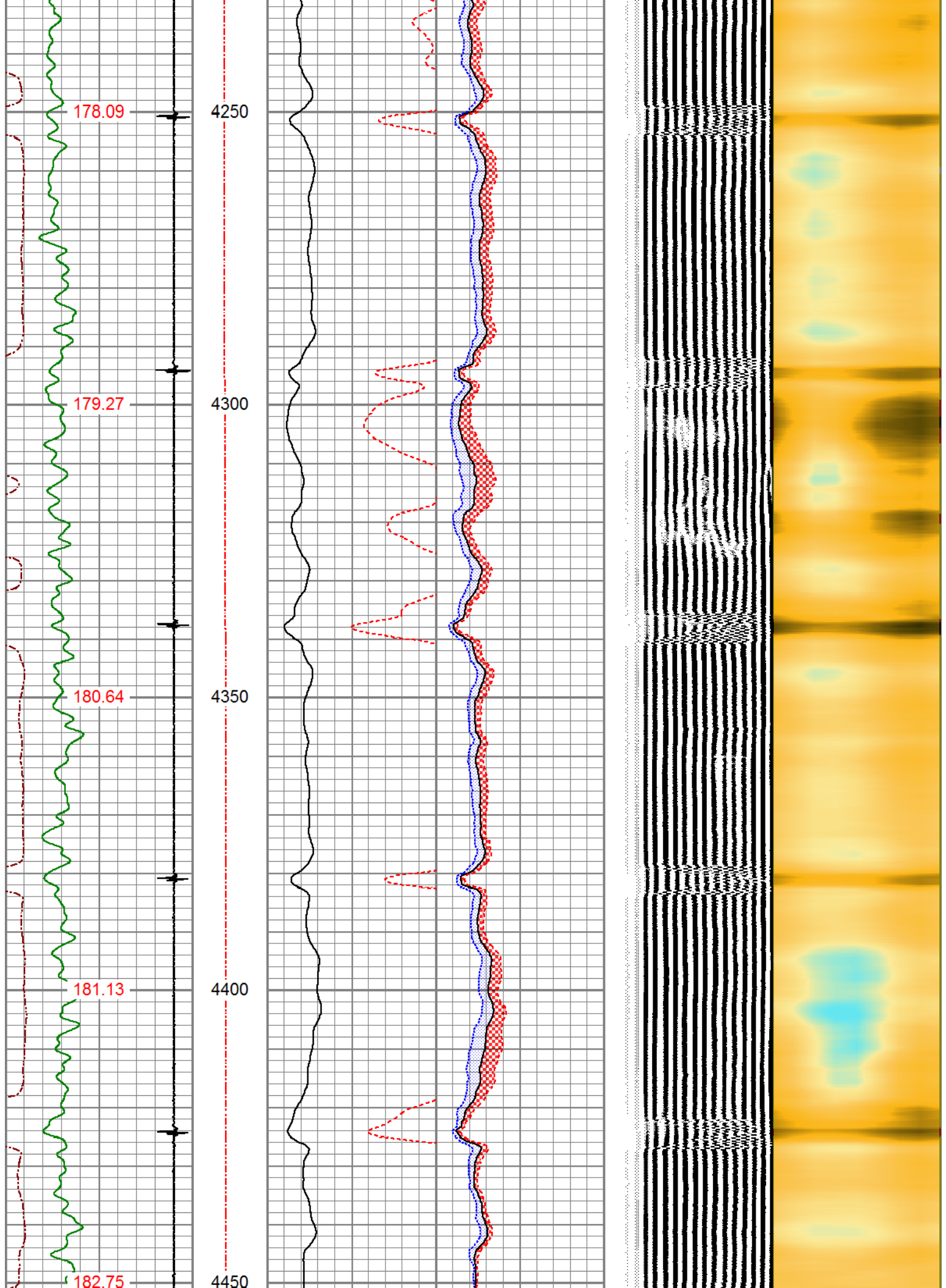


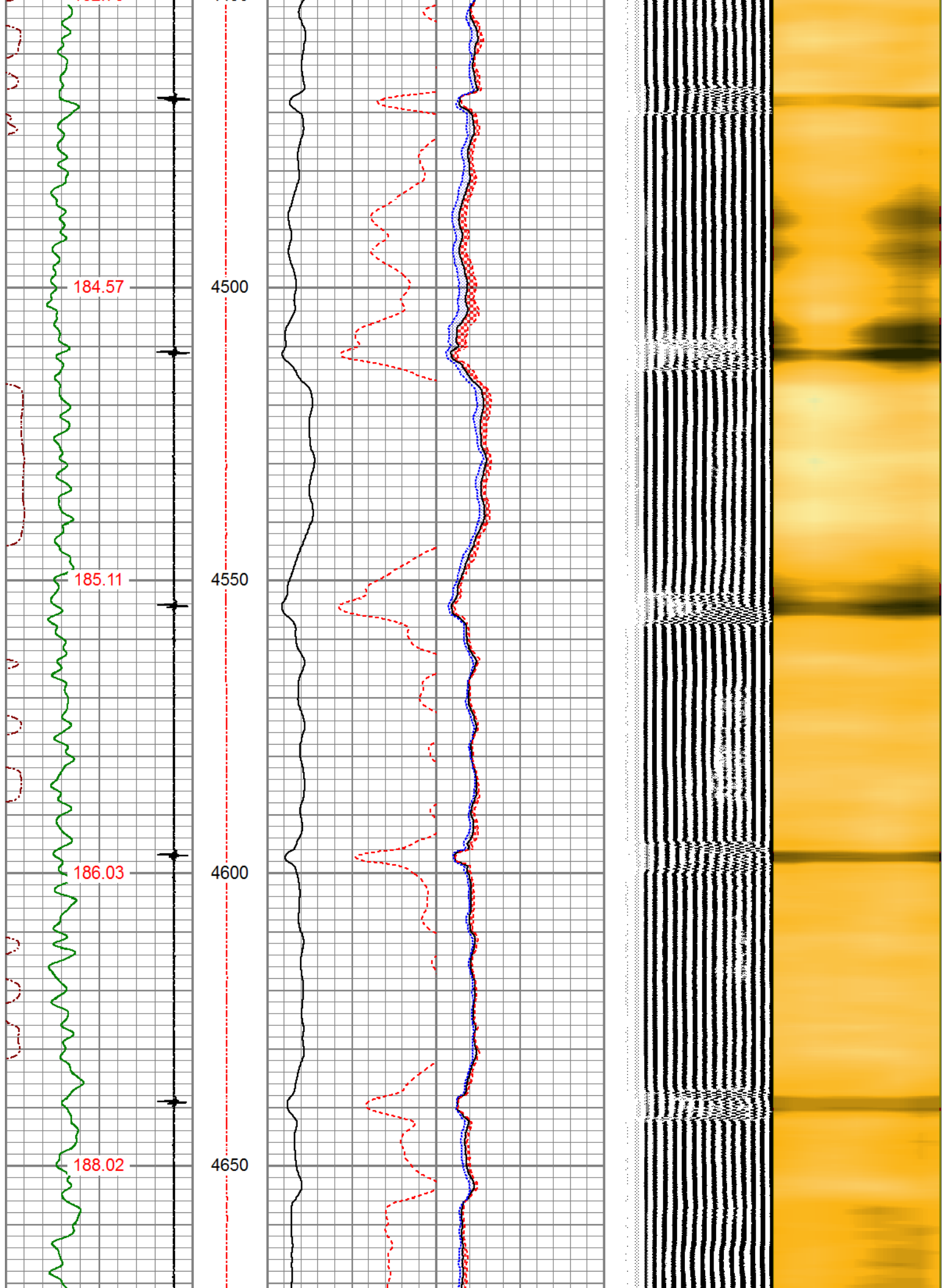




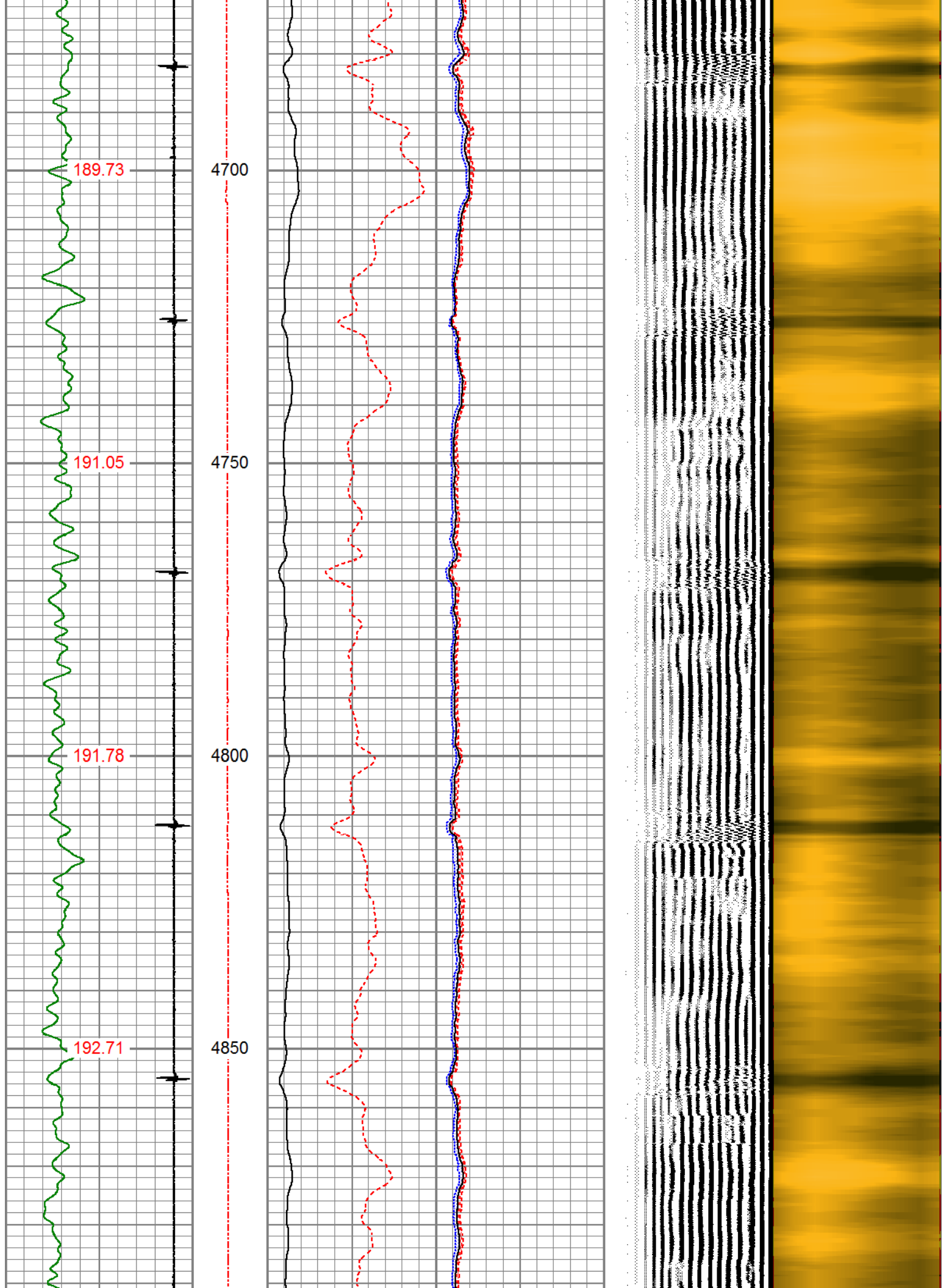


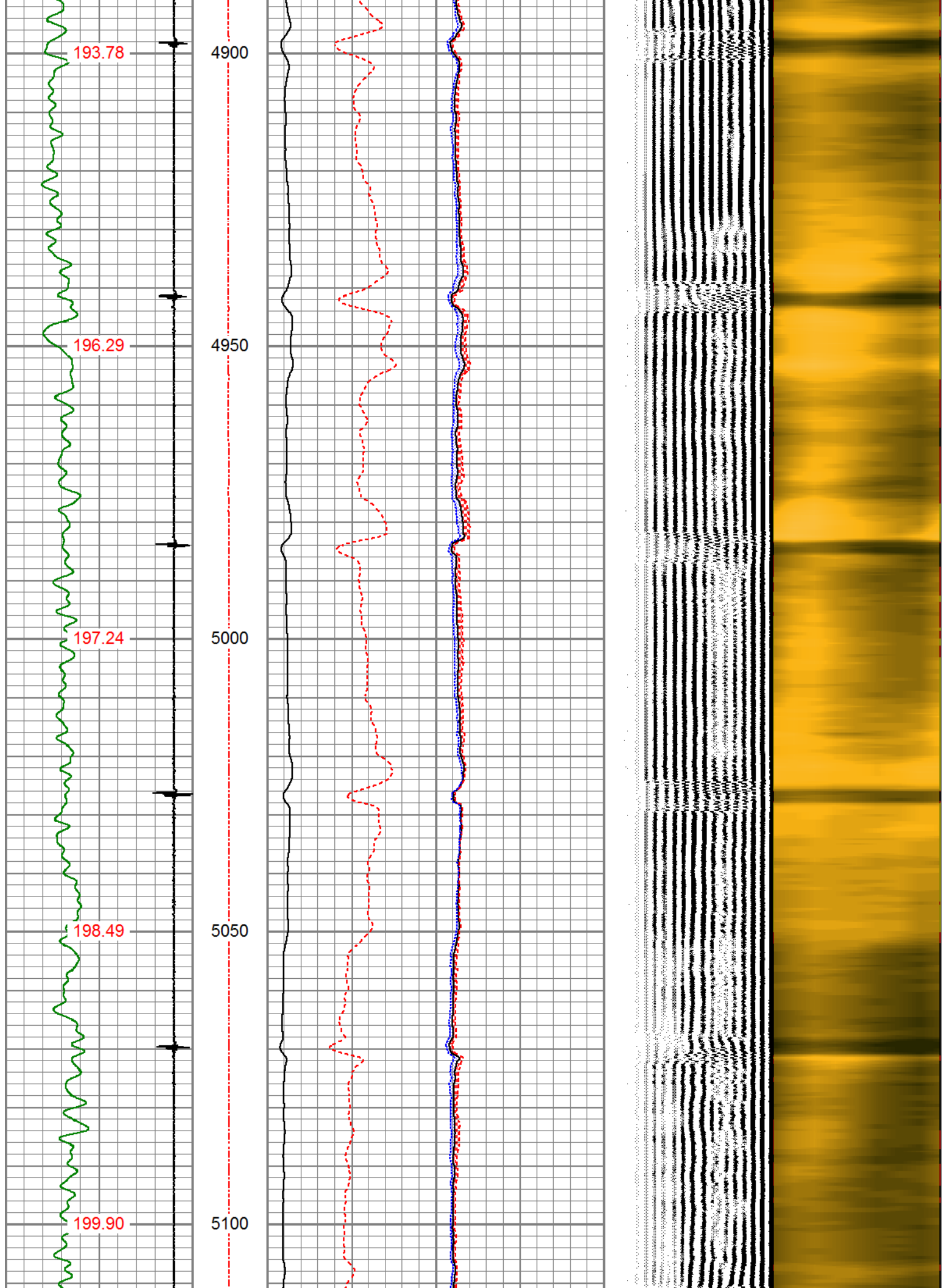




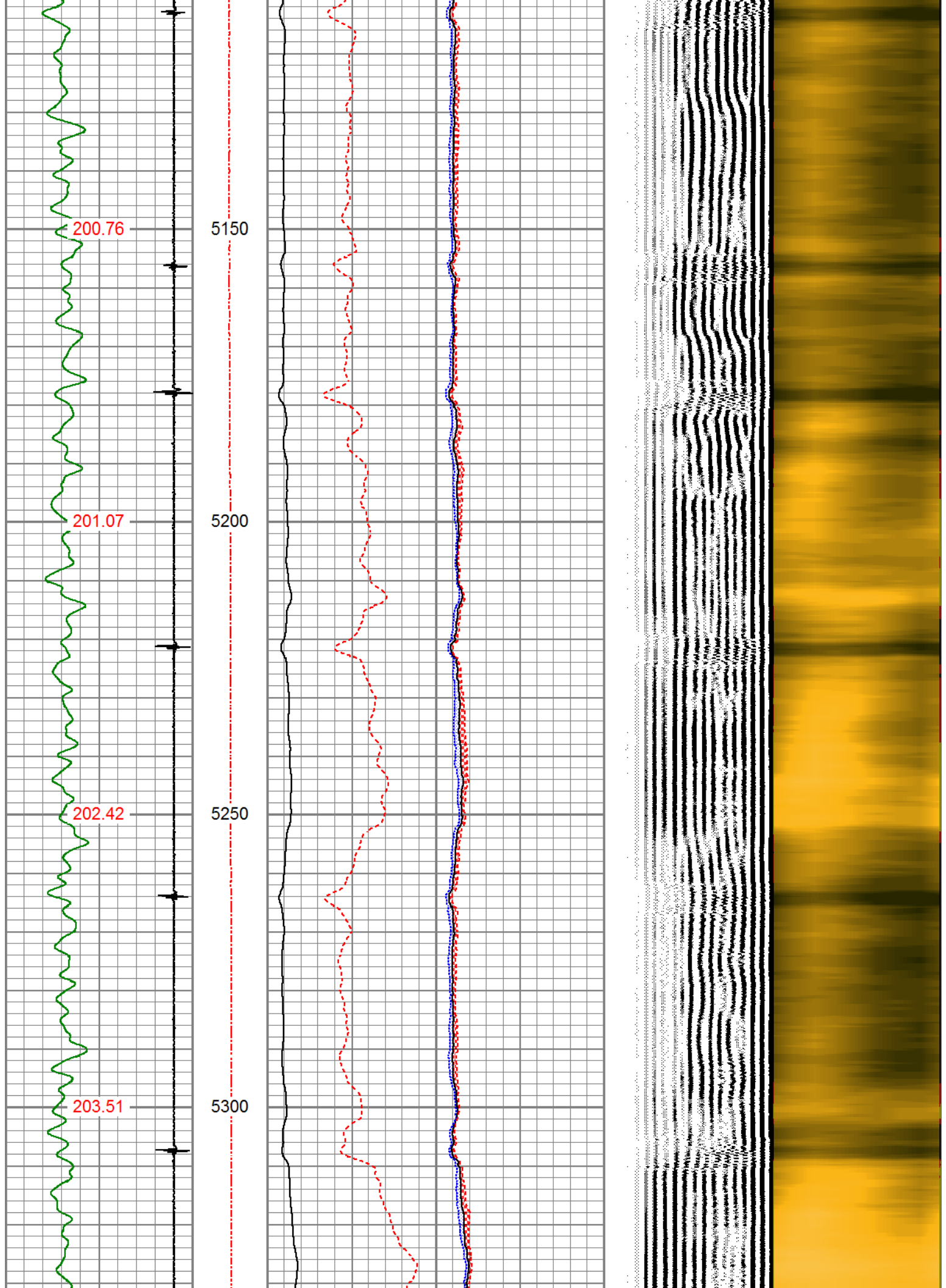


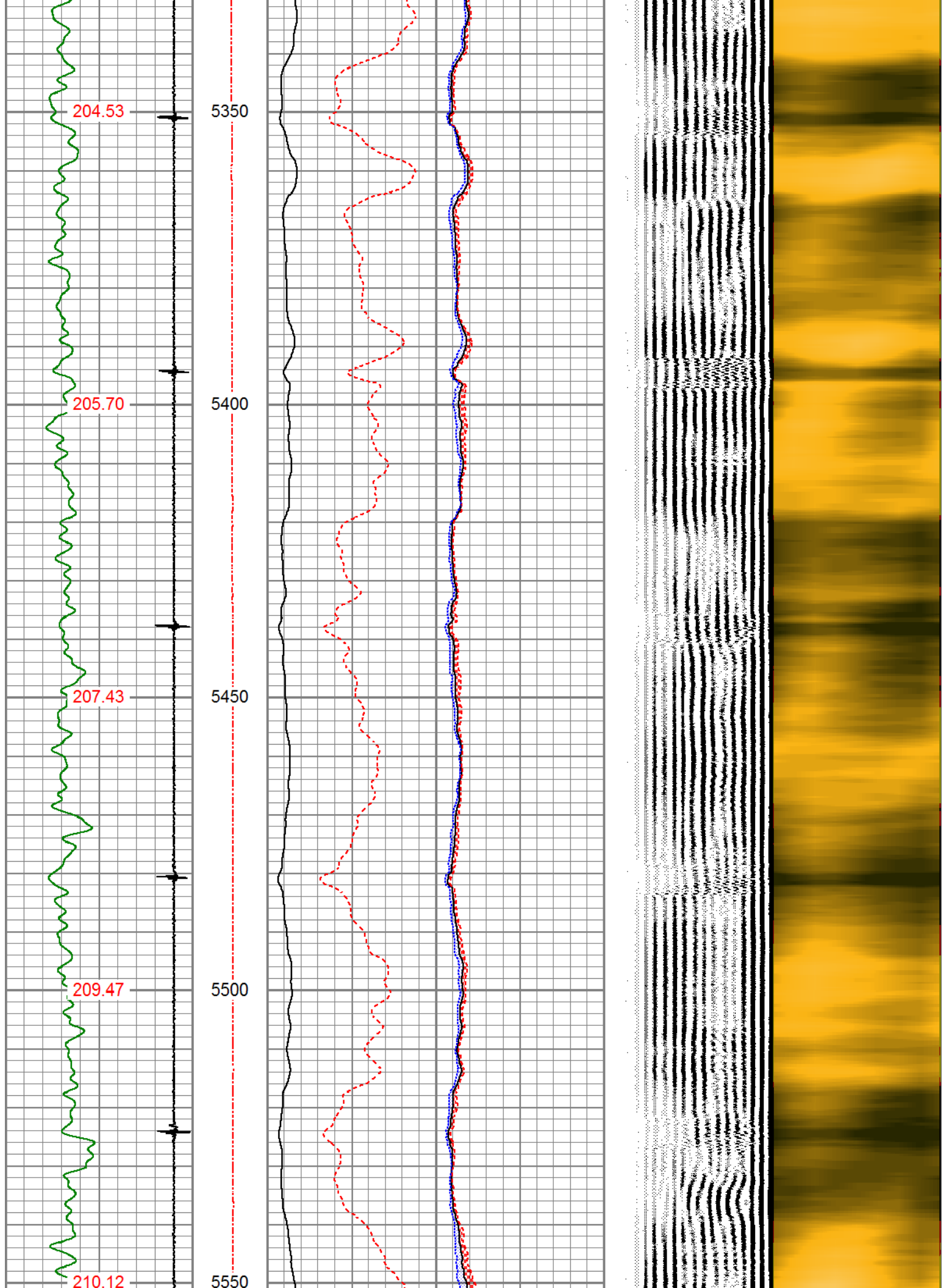


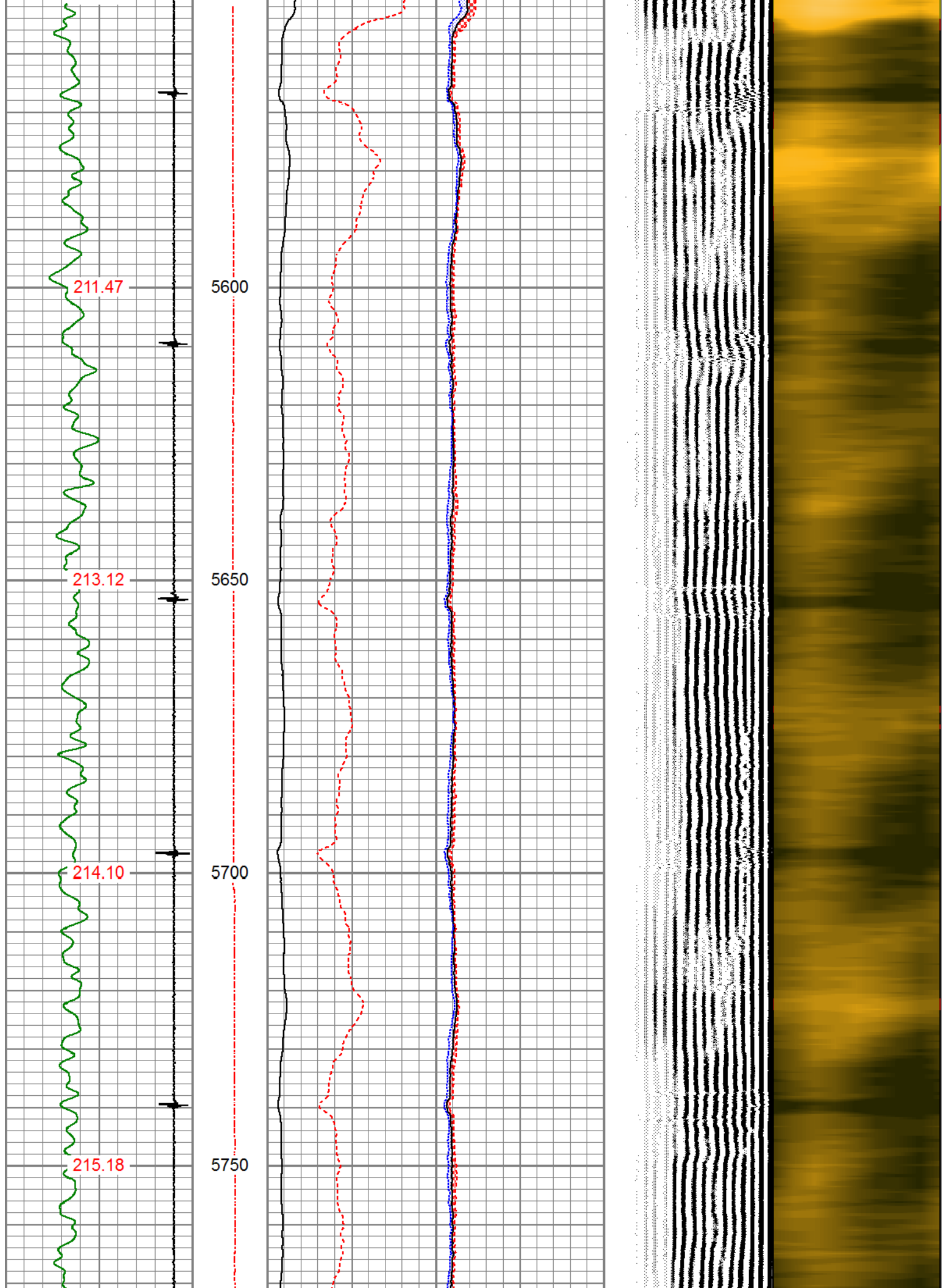


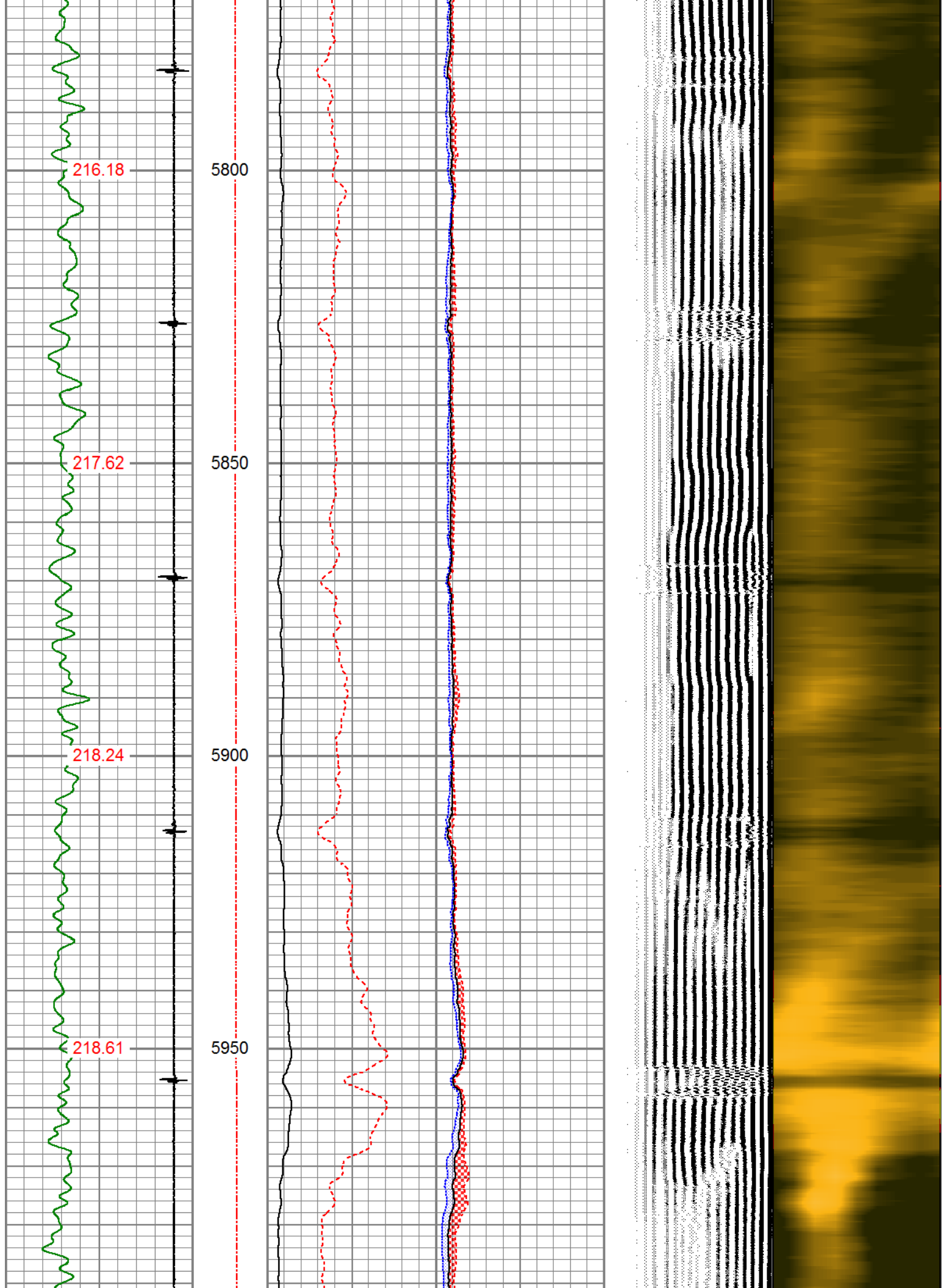




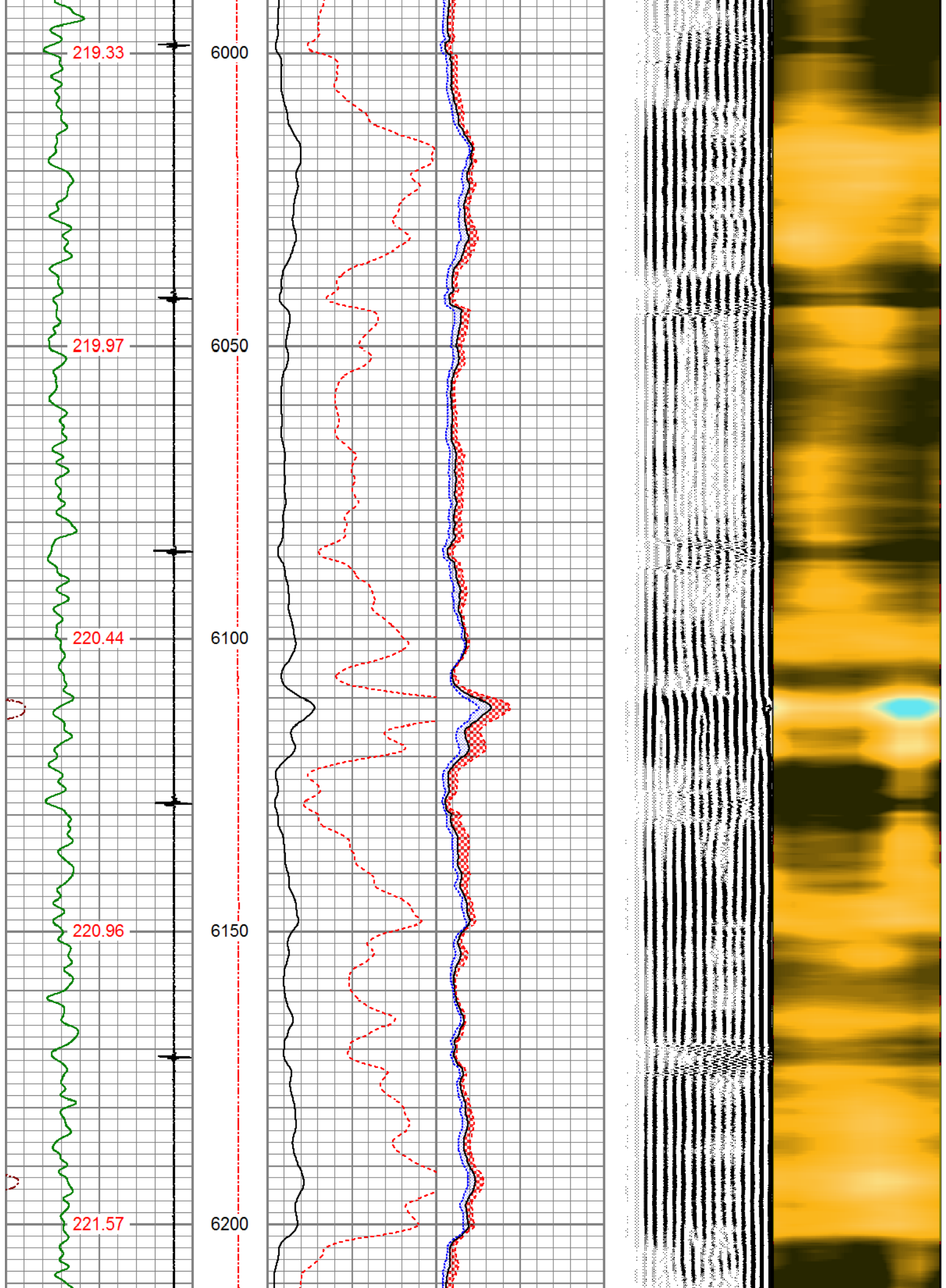


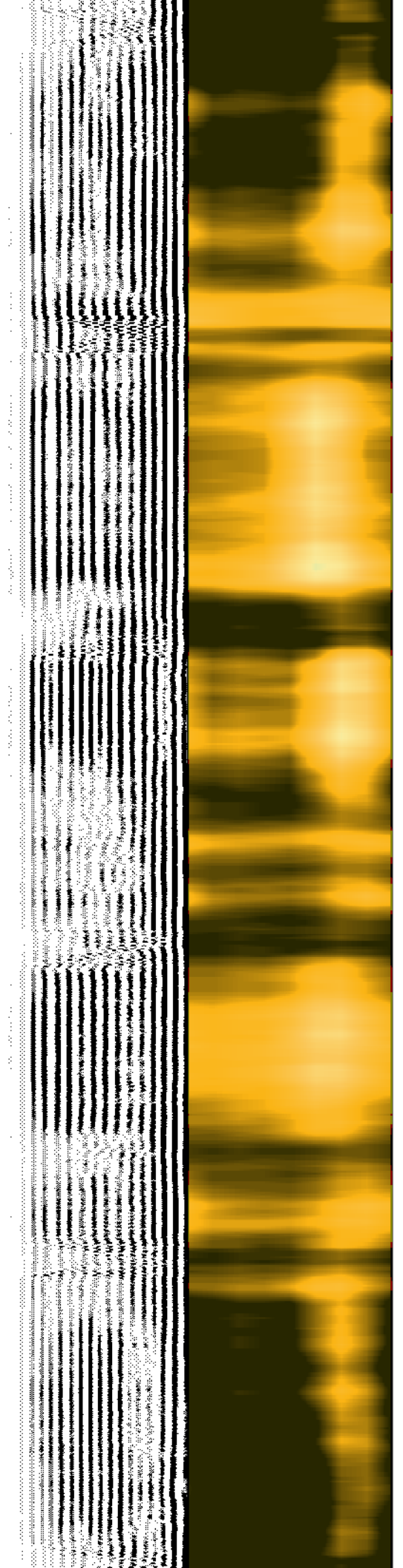
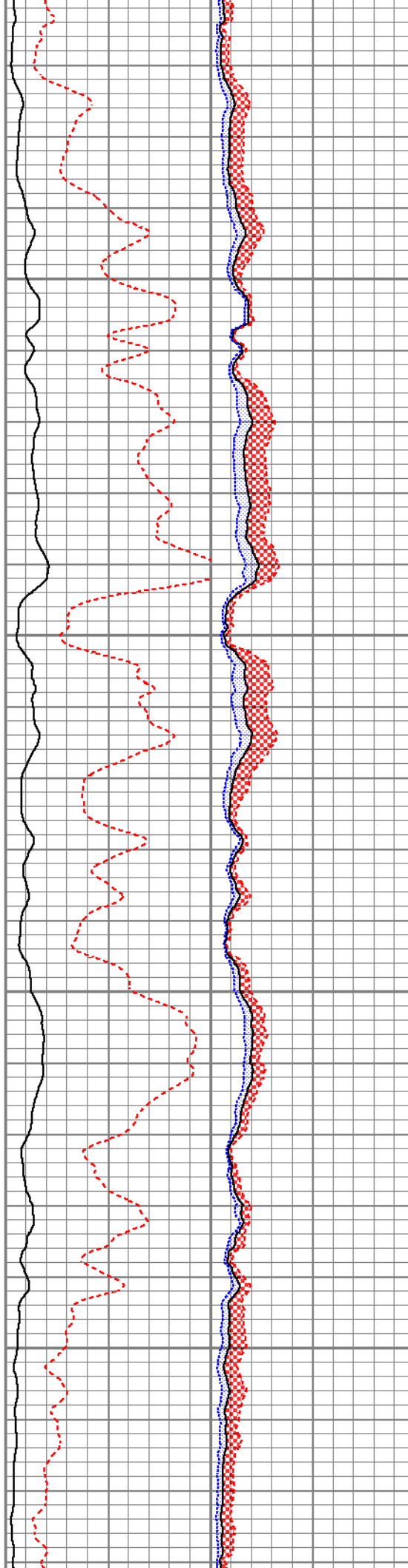
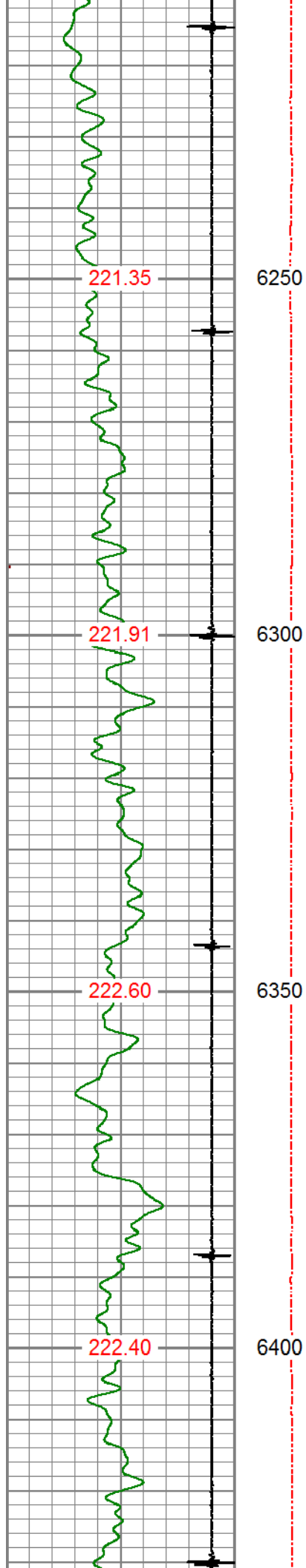




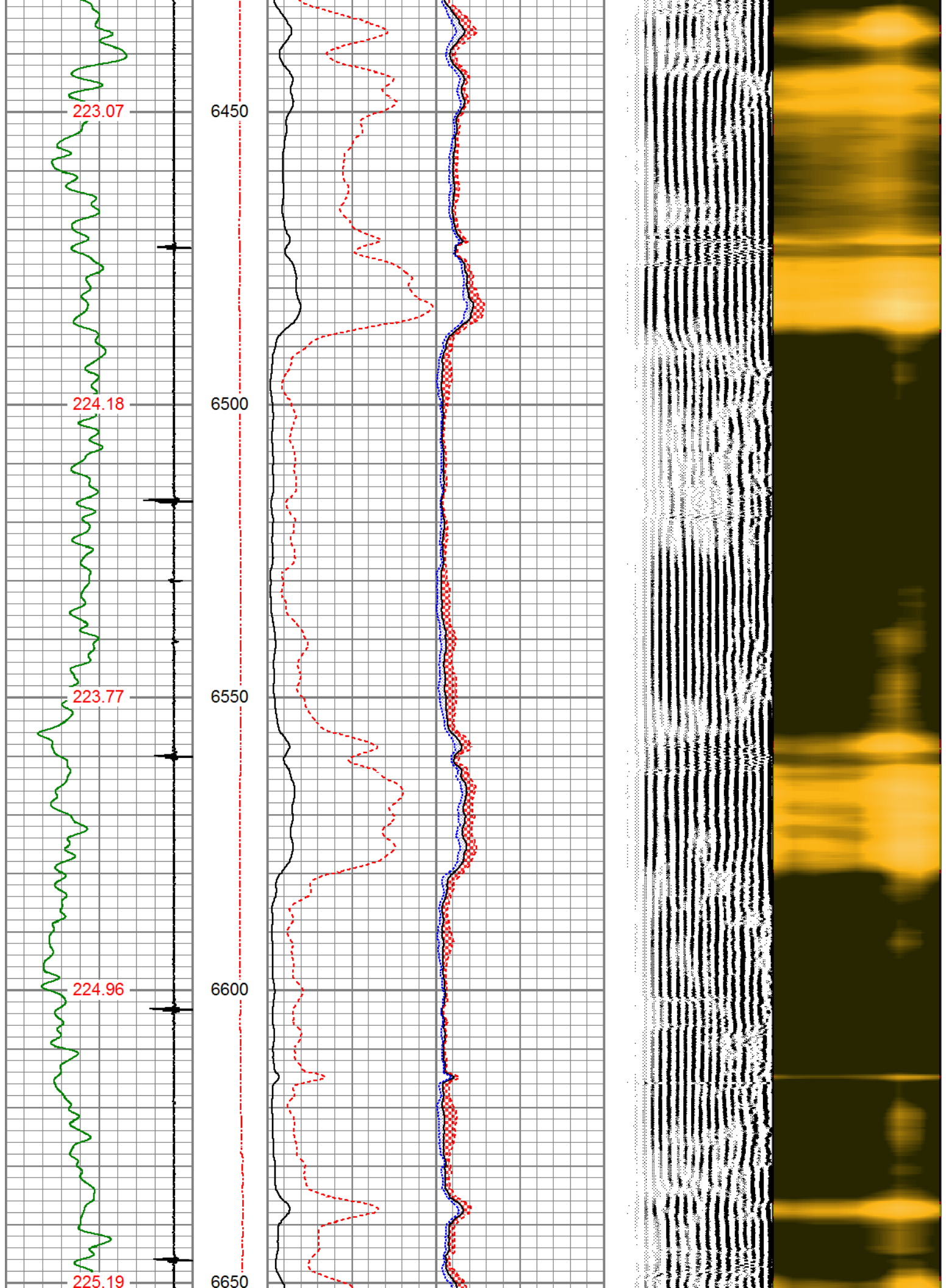


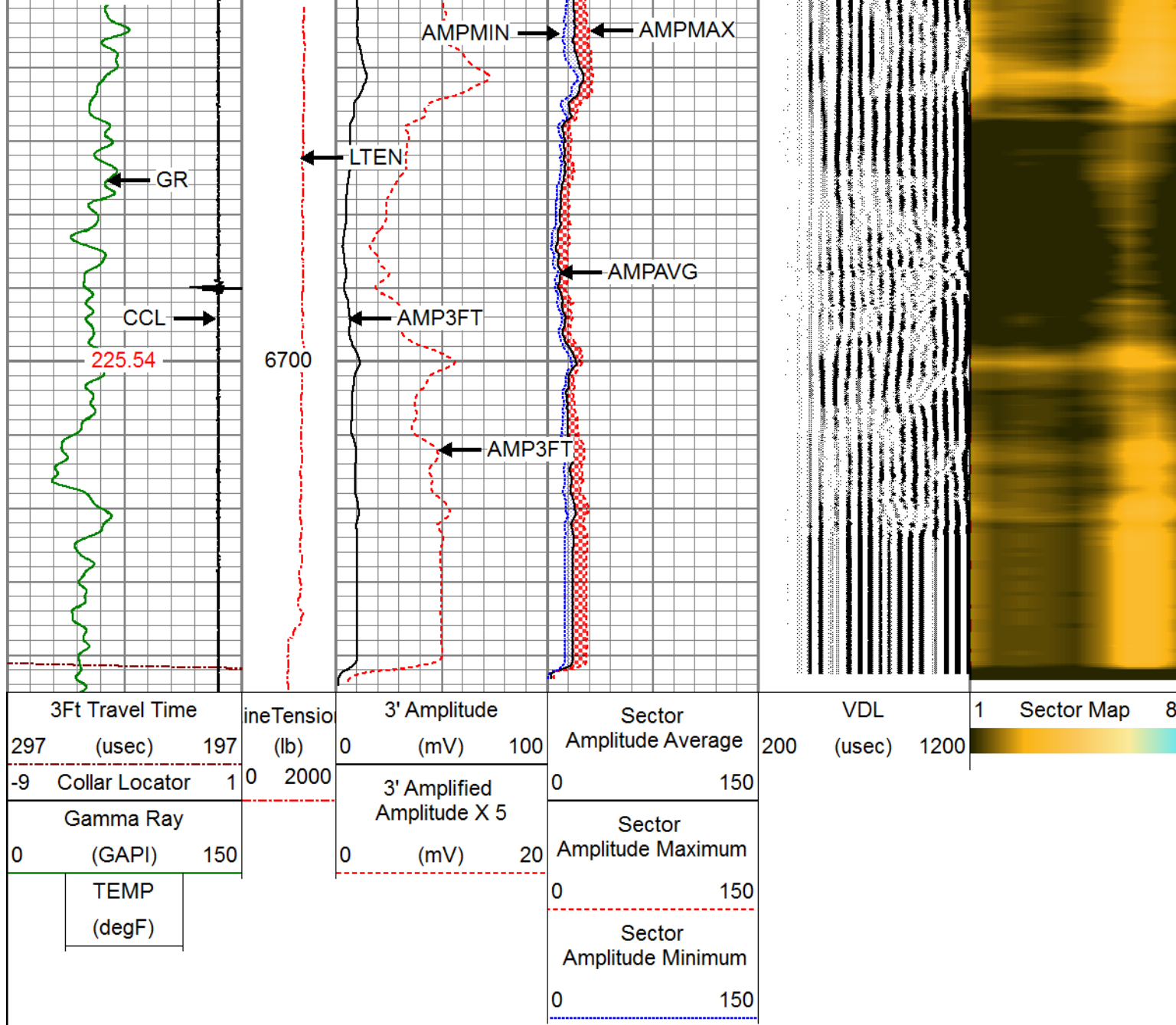
















**PIONEER**  
Pioneer Energy Services

## MAIN LOG

ZERO PSI APPLIED AT SURFACE

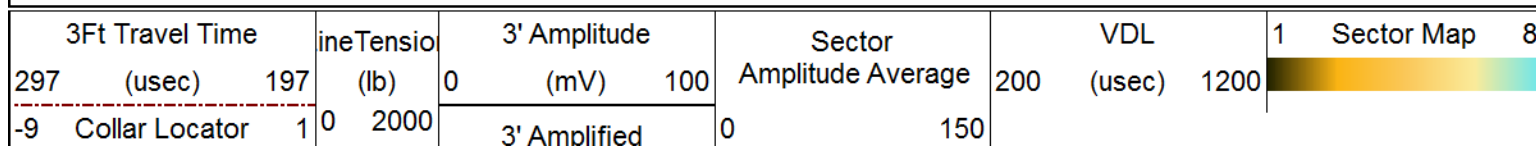


**PIONEER**  
Pioneer Energy Services

## REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

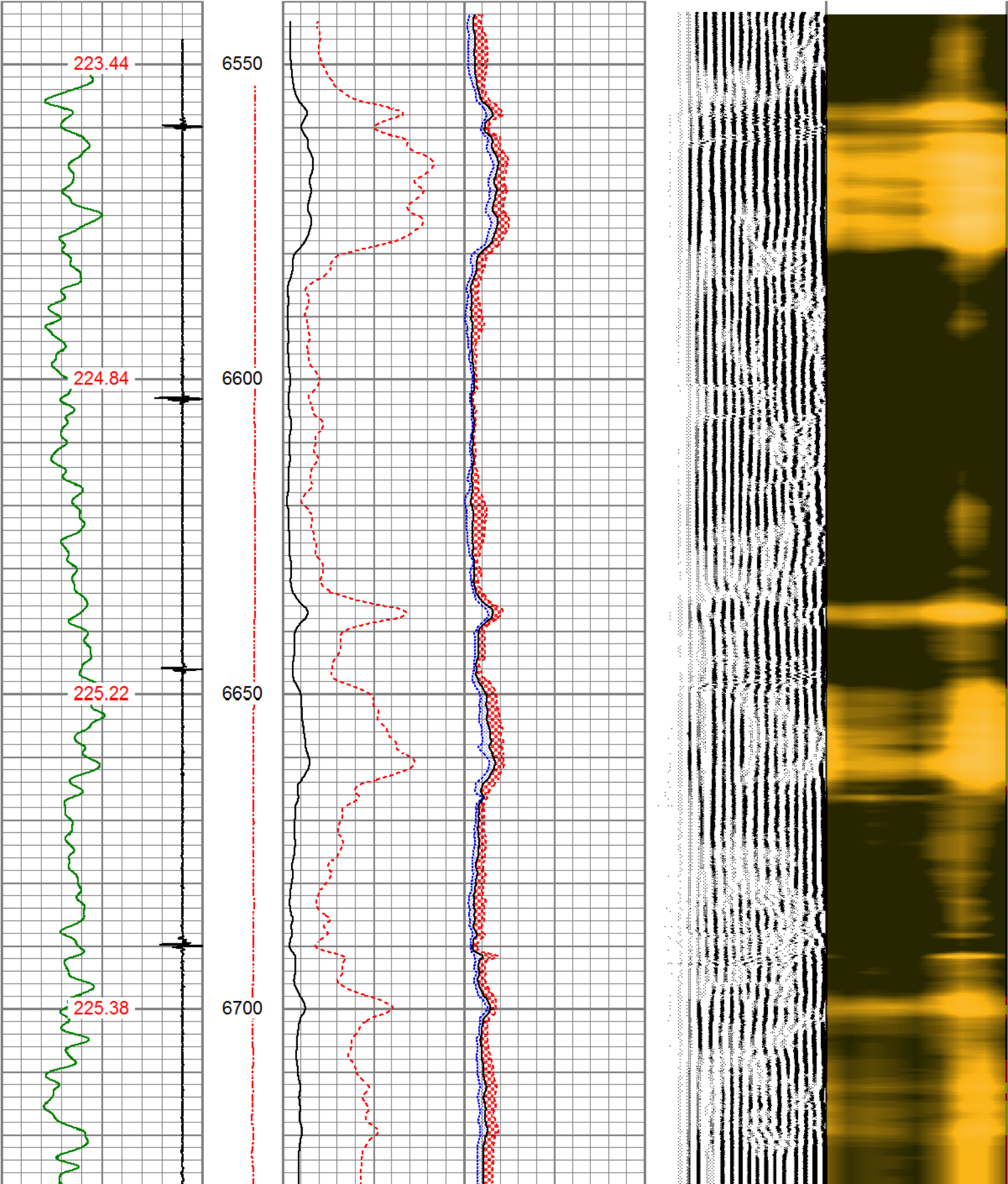
Database File	highpoint_wetco 4-63-5-4033cb_0512348495_20180114_scbl.db
Dataset Pathname	pass3.1
Presentation Format	pinr_scbl
Dataset Creation	Mon Jan 14 10:33:10 2019
Charted by	Depth in Feet scaled 1:240

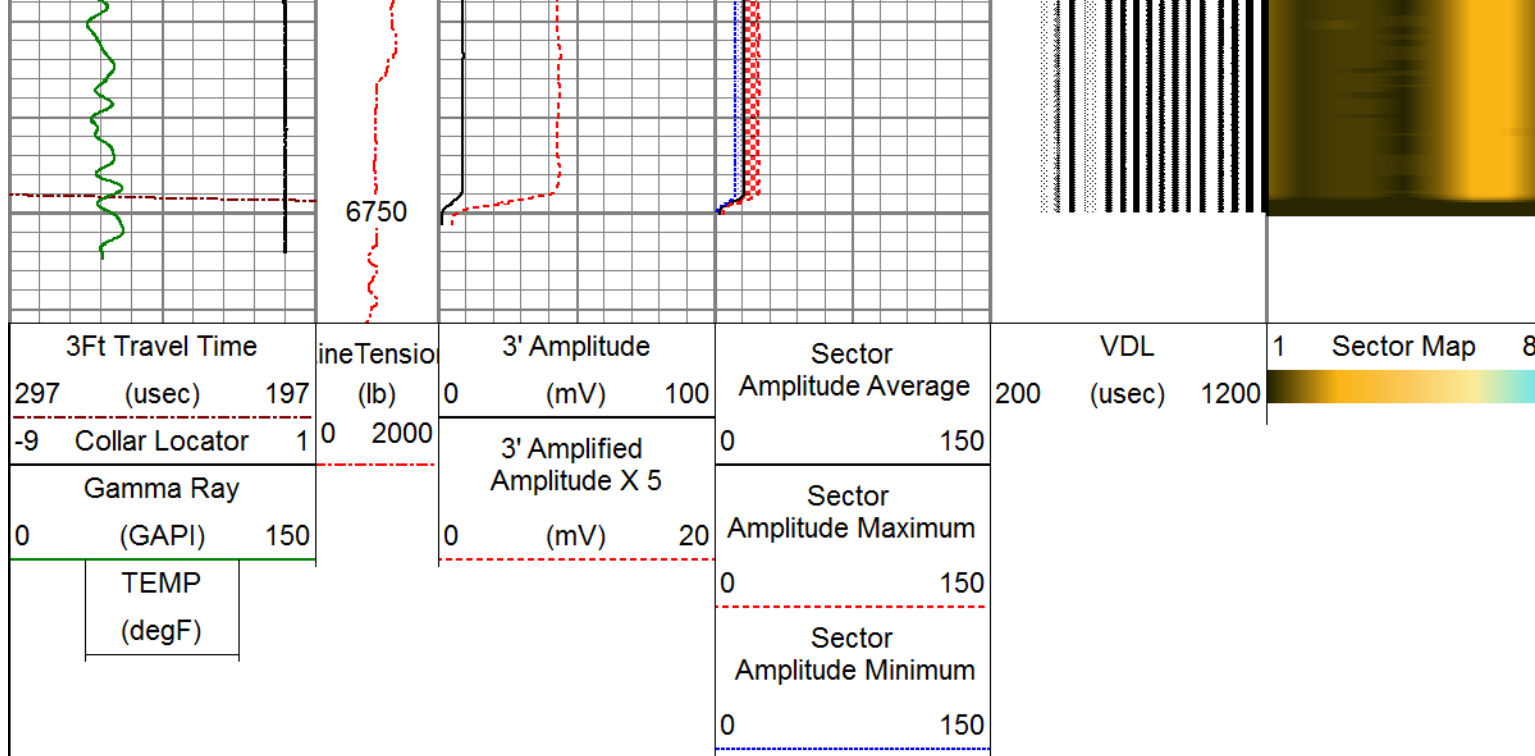


Gamma Ray		
0	(GAPI)	150
TEMP		
(degF)		

Amplitude X 5		
0	(mV)	20

Sector	
Amplitude Maximum	
0	150
Sector	
Amplitude Minimum	
0	150





Calibration Report		
Database File	highpoint_wetco 4-63-5-4033cb_0512348495_20180114_scbl.db	
Dataset Pathname	pass4	
Dataset Creation	Mon Jan 14 09:09:34 2019	

Gamma Ray Calibration Report		
Serial Number:	080629	
Tool Model:	275 Probe	
Performed:	Mon Jan 14 08:10:37 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6700	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1411-67-T	
Tool Model:	RBL-DCT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed Wed Jan 02 15:04:30 2019:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	1.194	0.700	71.921	59.742	0.597
CAL	0.011	1.509				
5'	0.133	1.145	0.700	71.921	70.399	-8.656
SUM						
S1	0.068	1.236	0.000	100.000	85.601	-5.830
S2	0.004	1.293	0.000	100.000	77.576	-0.327
S3	0.004	1.247	0.000	100.000	80.502	-0.351



S4	0.001	1.227	0.000	100.000	81.611	-0.112
S5	0.004	1.232	0.000	100.000	81.393	-0.314
S6	0.001	1.206	0.000	100.000	83.012	-0.098
S7	0.000	1.209	0.000	100.000	82.718	-0.039
S8	0.000	1.195	0.000	100.000	83.716	-0.036

Air Zero Calibration, performed Thu Nov 29 17:51:21 2018:

	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	0.000	0.000	0.000
S8	0.000	0.000	0.000

#### Temperature Calibration Report

Serial Number: FW1411-67-T  
Tool Model: RBL-DCT  
Performed: (Not Performed)

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



Company	HIGHPOINT OPERATING CORP.
Well	WETCO 4-63-05-4033CB
Field	WATTENBERG
County	WELD
State	COLORADO