



**PIONEER**

Pioneer Energy Services

**RADIAL BOND LOG  
WITH GAMMA RAY**

Comp. VERDAD RESOURCES		Company	<b>VERDAD RESOURCES</b>	
Well TIMBRO 9-59 #8B-9-8		Well	<b>TIMBRO 9-59 #8B-9-8</b>	
Field WILDCAT		Field	<b>WILDCAT</b>	
Co. WELD		County	<b>WELD</b>	
State COLORADO		State	<b>COLORADO</b>	
Location:		API # : 05-123-47572		Other Services
1383' FSL & 600' FWL SW SW		NONE		
SEC 8 TWP 9N RGE 59W				
Permanent Datum	GL	Elevation	5046'	Elevation
Log Measured From	KB	24'	Above Perm. Datum	K.B. 5070'
Drilling Measured From	KB			D.F. N/A
				G.L. 5046'
Date of Service	06 JULY 2019			
Run Number	ONE			
Depth Driller or P8TD	16189'			
Depth Logger	6440'			
Bottom Log Interval	6440'			
Top Log Interval	SURFACE			
Open Hole Size	8.5"			
Type Fluid	WATER			
Fluid Level	FULL			
Fluid Density	N/A			
Max. Recorded Temperature	N/A			
Max. Wellhead Pressure	ZERO			
Wellhead Connection	5.125" 10K			
Estimated Cement Top	1925'			
Unit Number	P-57			
Wireline Size	9/32"			
Location	FORT MORGAN			
Recorded By	SCHOENROGGE			
Witnessed By	MR. DAMRON			
Size		Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing		9.625"	36#	SURFACE
Production Casing		5.5"	20#	SURFACE
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.  
CORRELATED TO CUSTOMER MARKER JOINT

THANK YOU FOR USING PIONEER ENERGY SERVICES!

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



Top - Bottom

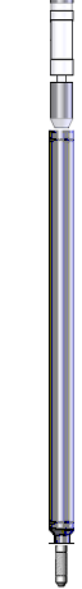
BOREID in 8.5	BOTTEMP degF 200	CASEOD in 5.5	CASETHCK in 0.361	CASEWGHT lb/ft 20	MAXAMPL mV 71.9	MINAMPL mV 2.2
MINATTN db/ft 0.8	PERFS 0	PPT usec 261	SRFTEMP degF 50	TDEPTH ft 6500		


Variable Description

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)
CCL	13.13		Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			CCL_Logging-275 TekCo_2 (TekCo-275) 2 3/4"	1.83	2.75	15.00
WVFS8	7.88		PROBE-RBT-DIGITAL-RBL-DC (FW1304-38.75) Probe 2 3/4" Radii Bond-Corrosion Package	38.75	2.75	100.00
WVFS7	7.88					
WVFS6	7.88					
WVFS5	7.88					
WVFS4	7.88					
WVFS3	7.88					
WVFS2	7.88					
WVFS1	7.88					
WVFCAL	7.88					
WVF3FT	7.88					
WVF5FT	6.88					

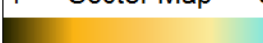
HEADVOLT	3.69					
			GR-275 Probe (080630) Probe 2.75" Gamma Ray	3.36	2.75	40.00
GR	1.15					
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00
Dataset: verdad_timbro9-59#8b-9-8_0512347572_20190706_scbl.db: field/well/run1/pass5 Total length: 15.31 ft Total weight: 158.00 lb O.D.: 2.75 in						

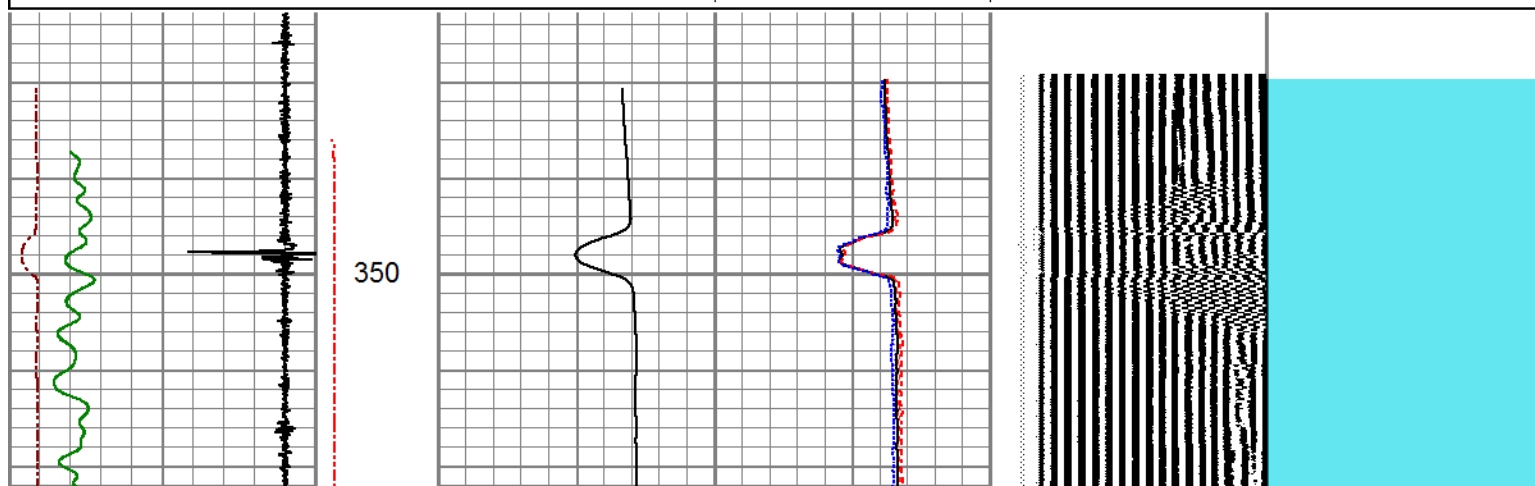


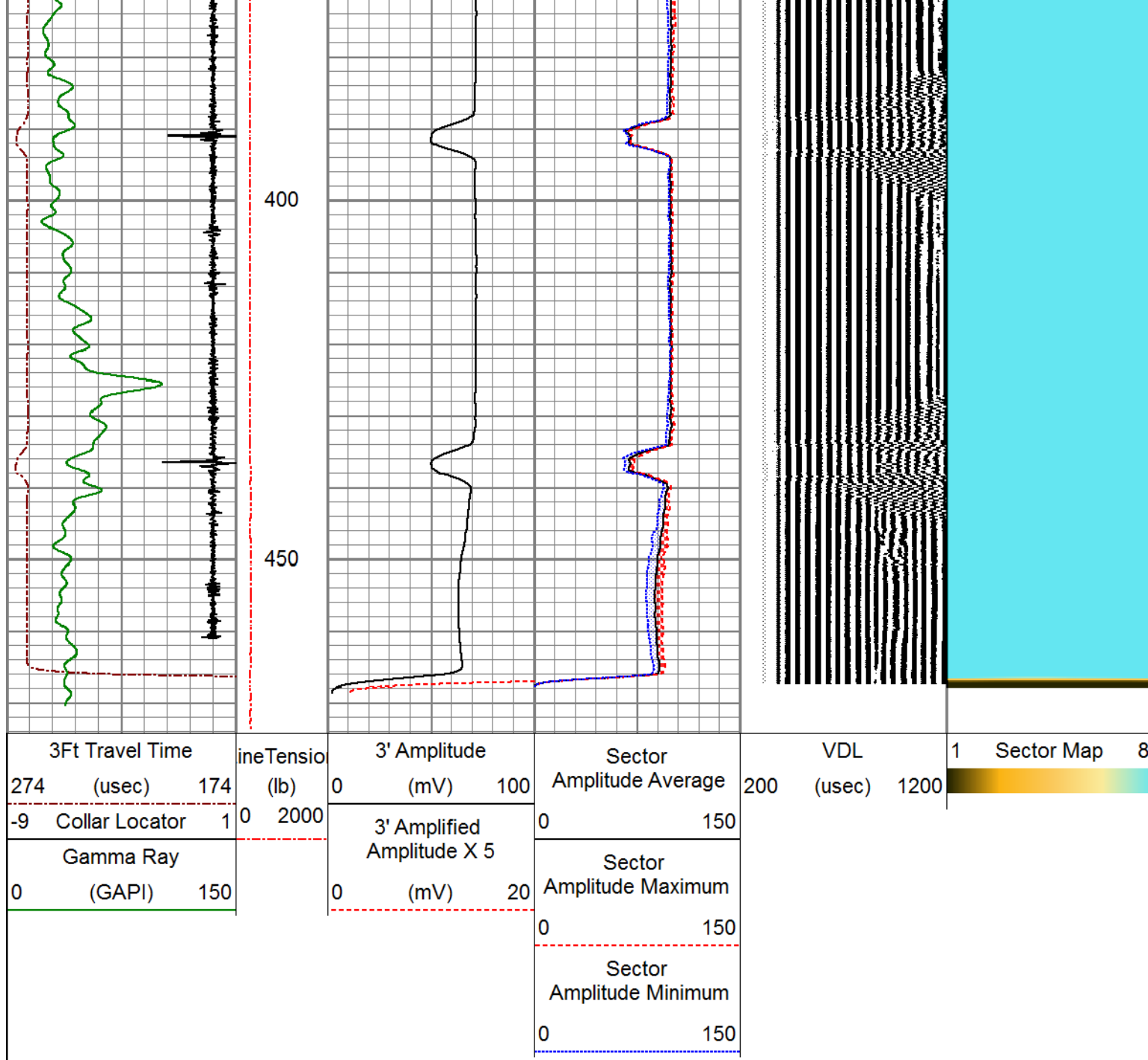
## FREE PIPE SECTION


### ZERO PSI APPLIED AT SURFACE

Database File	verdad_timbro9-59#8b-9-8_0512347572_20190706_scbl.db
Dataset Pathname	pass2
Presentation Format	pinr_scbl
Dataset Creation	Sat Jul 06 16:01:05 2019
Charted by	Depth in Feet scaled 1:240

3Ft Travel Time	ineTensio	3' Amplitude	Sector	VDL	1	Sector Map	8
274 (usec) 174	(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				
			Sector Amplitude Minimum				
			0 150				





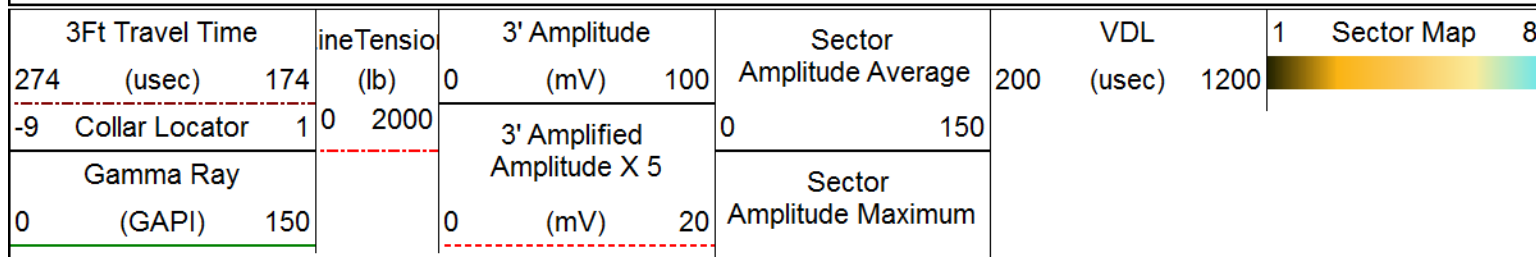


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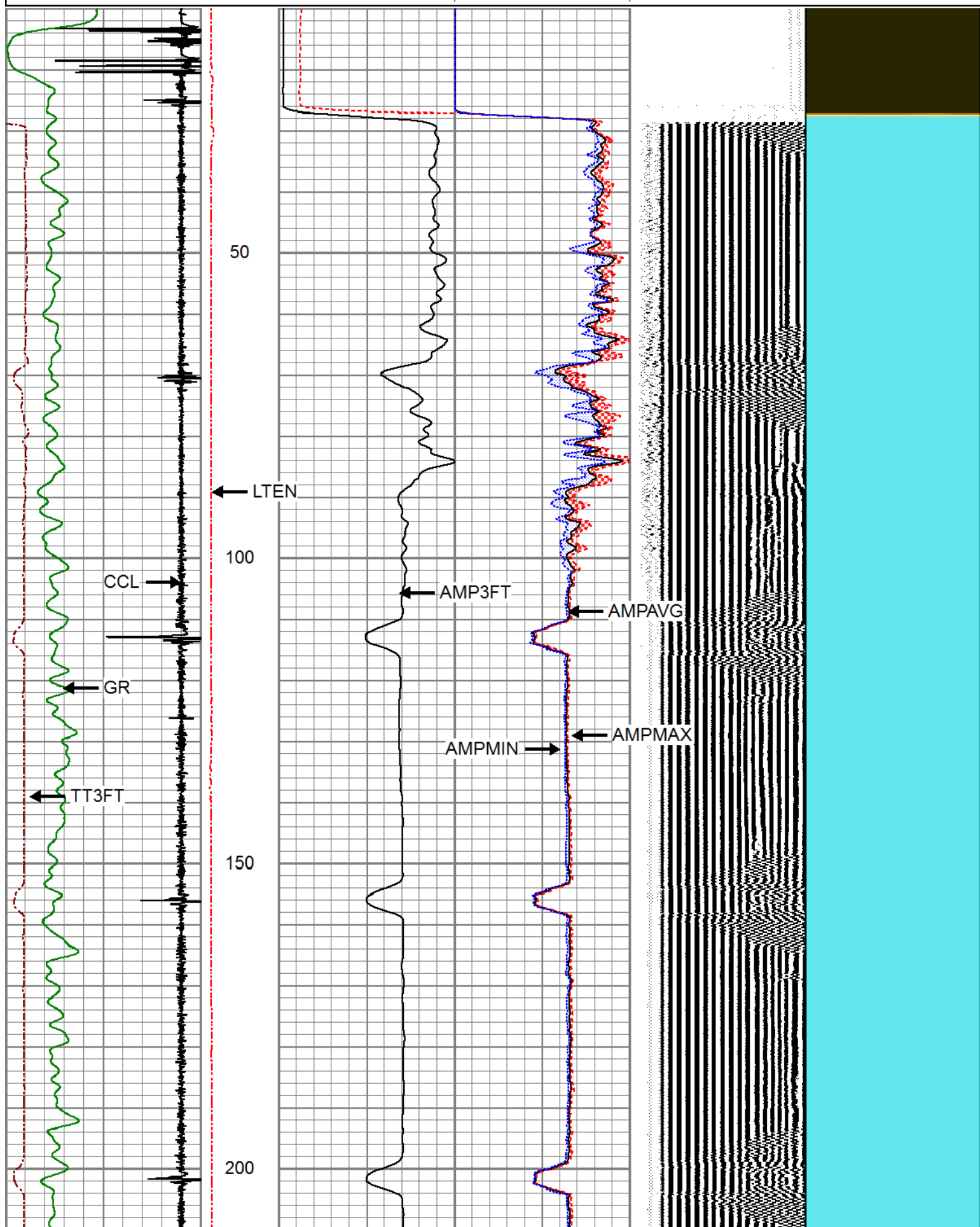
## MAIN LOG

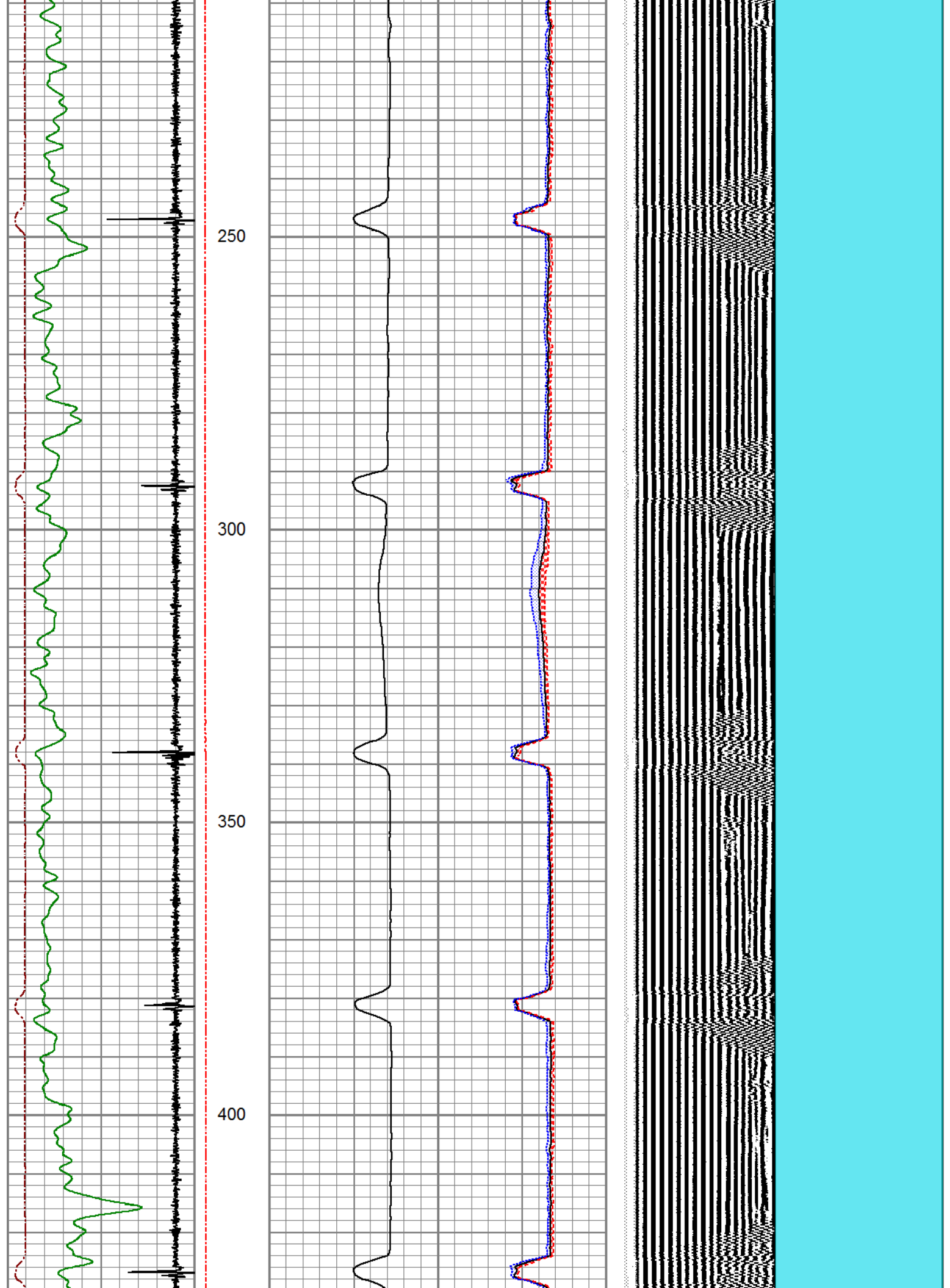
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Dataset Pathname	pass5
Presentation Format	pinr_scbl
Dataset Creation	Sat Jul 06 16:27:24 2019
Charted by	Depth in Feet scaled 1:240

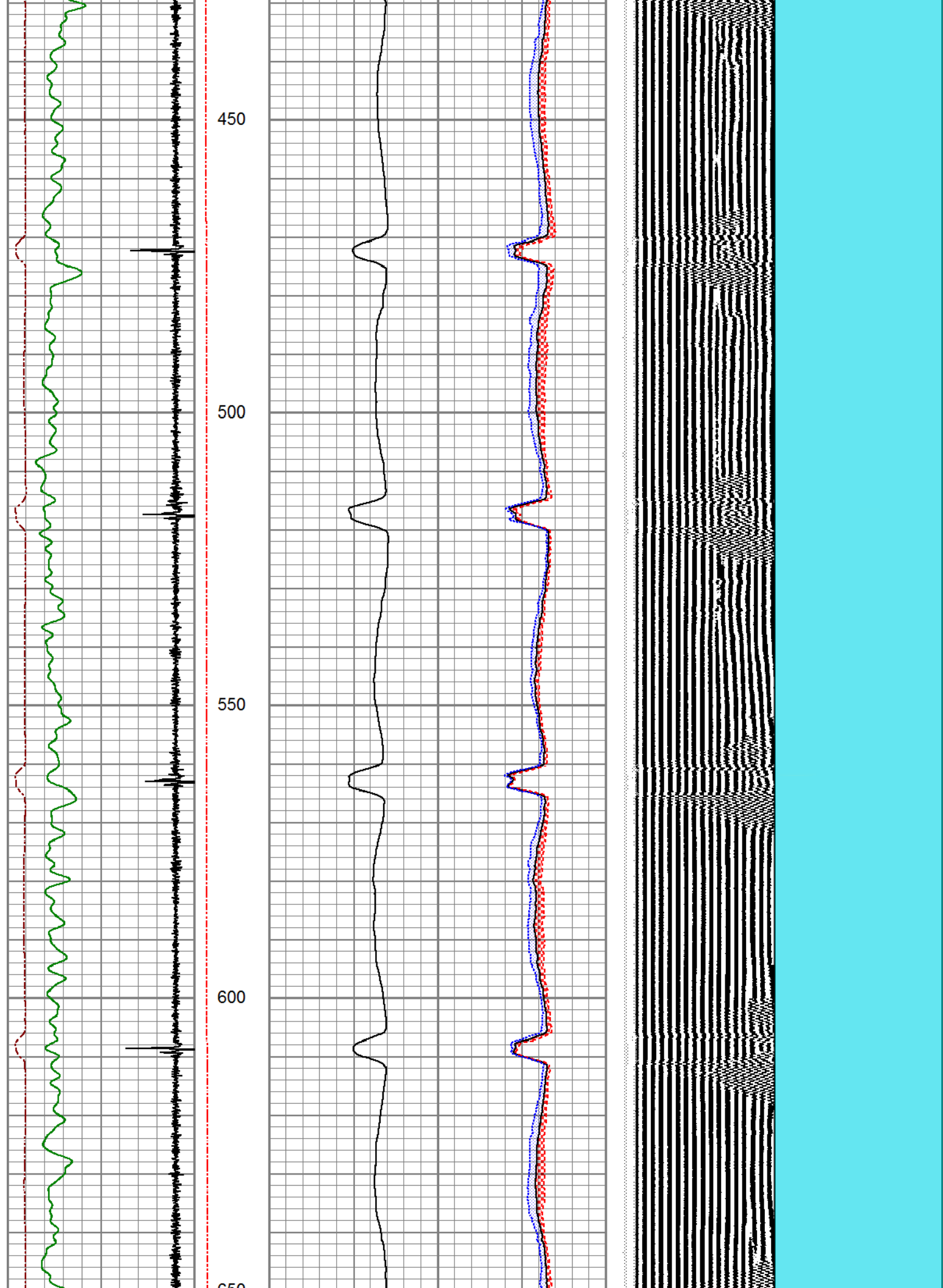


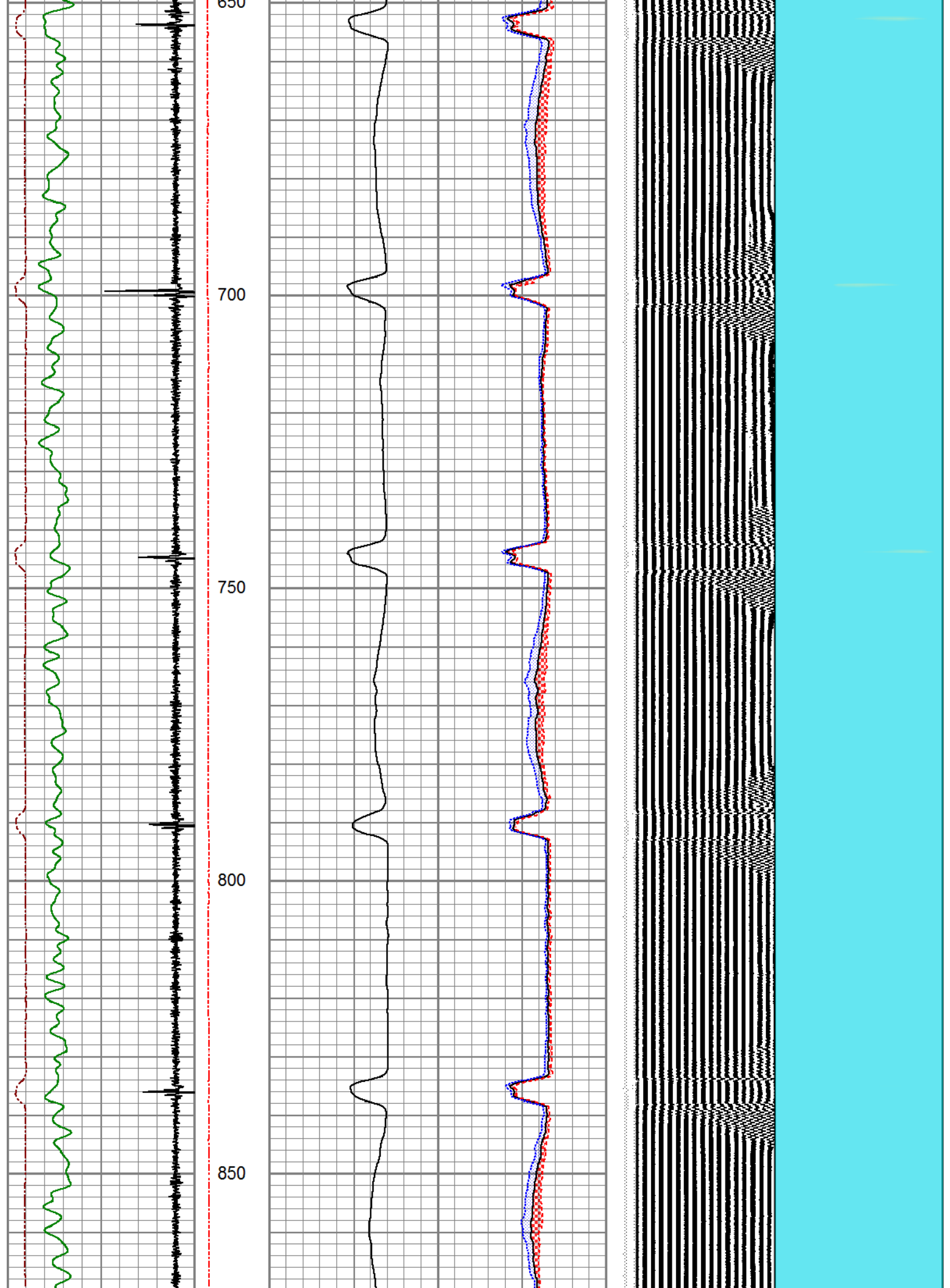
0	150
Sector Amplitude Minimum	
0	150



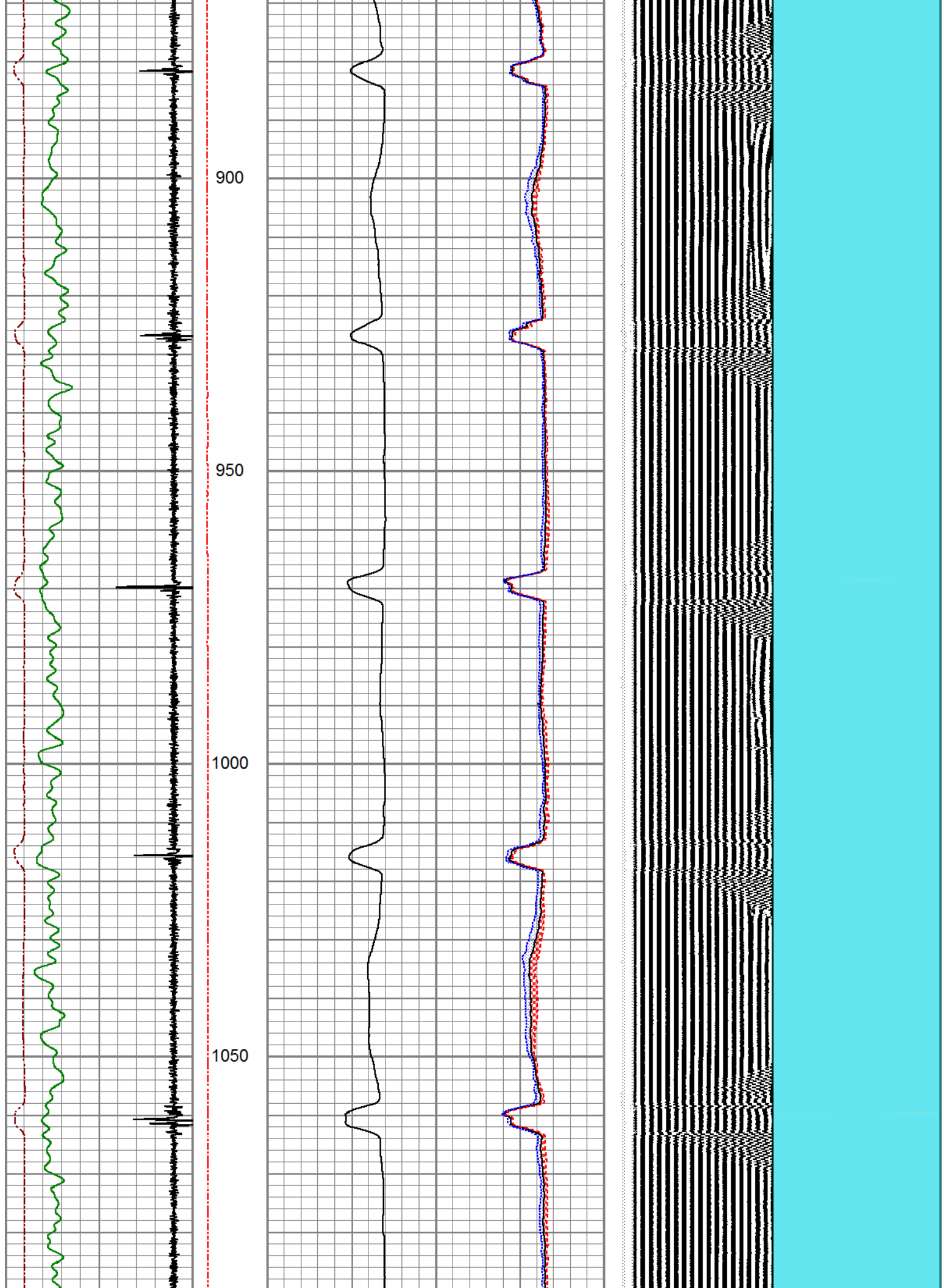


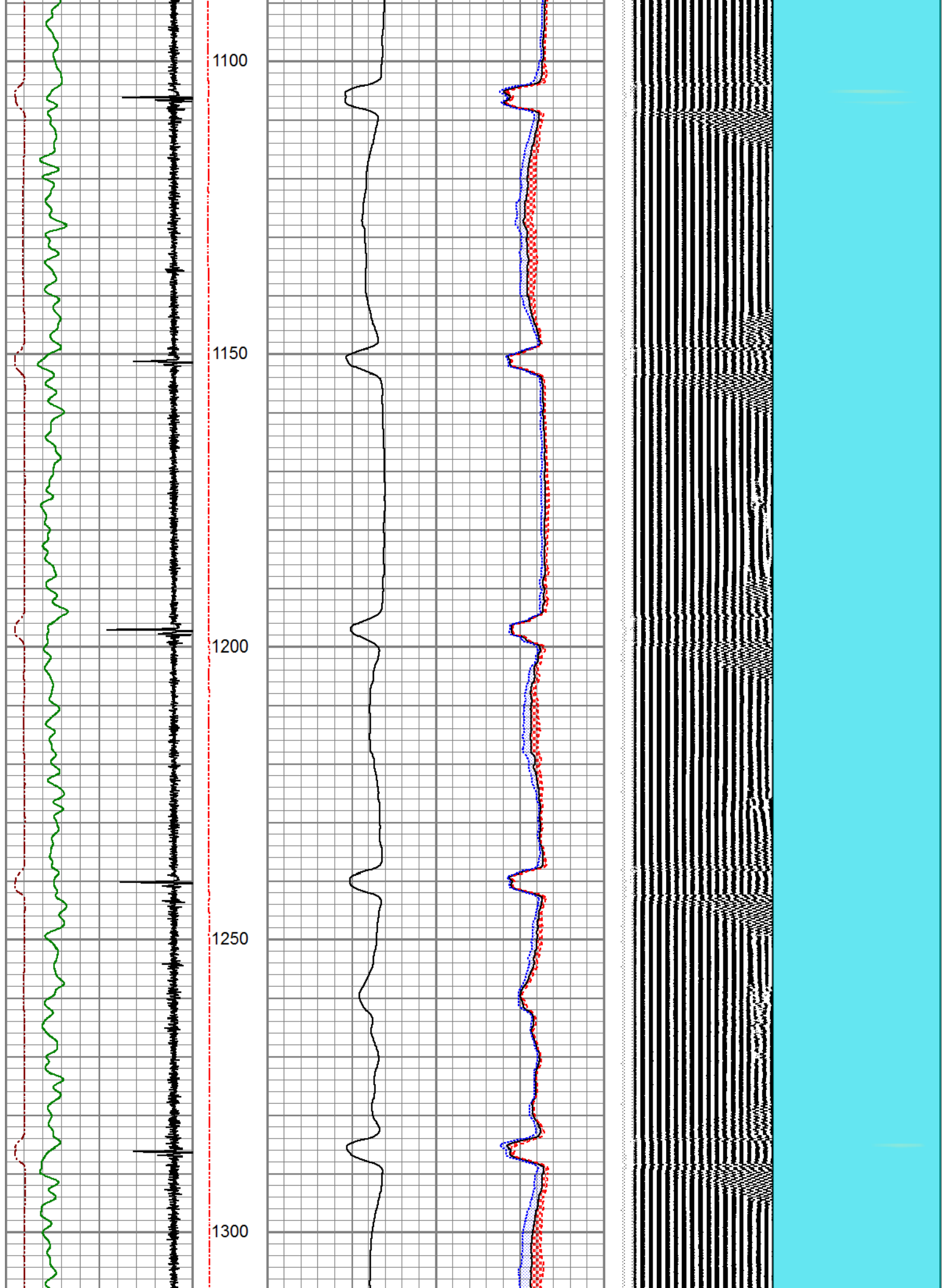


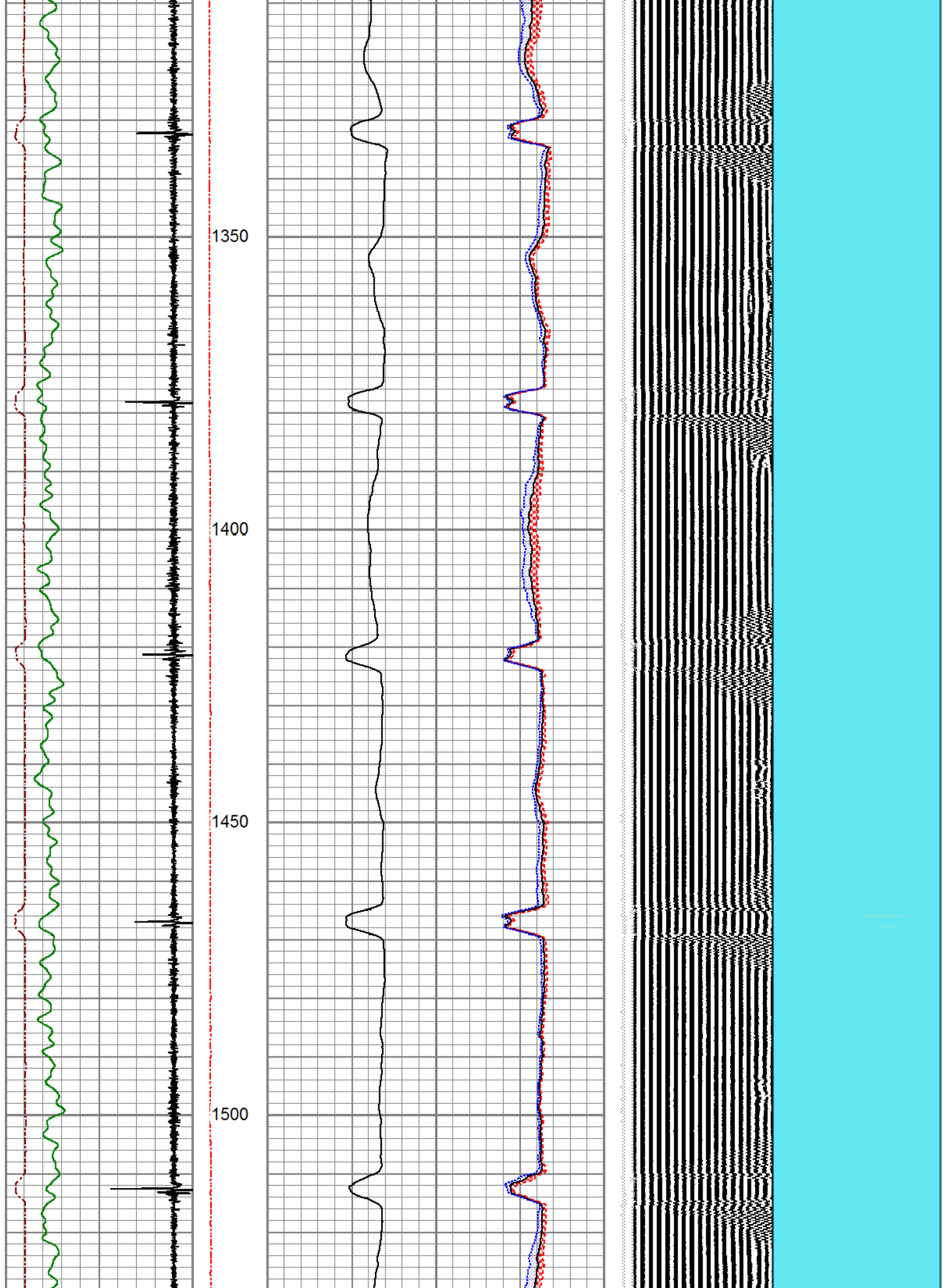


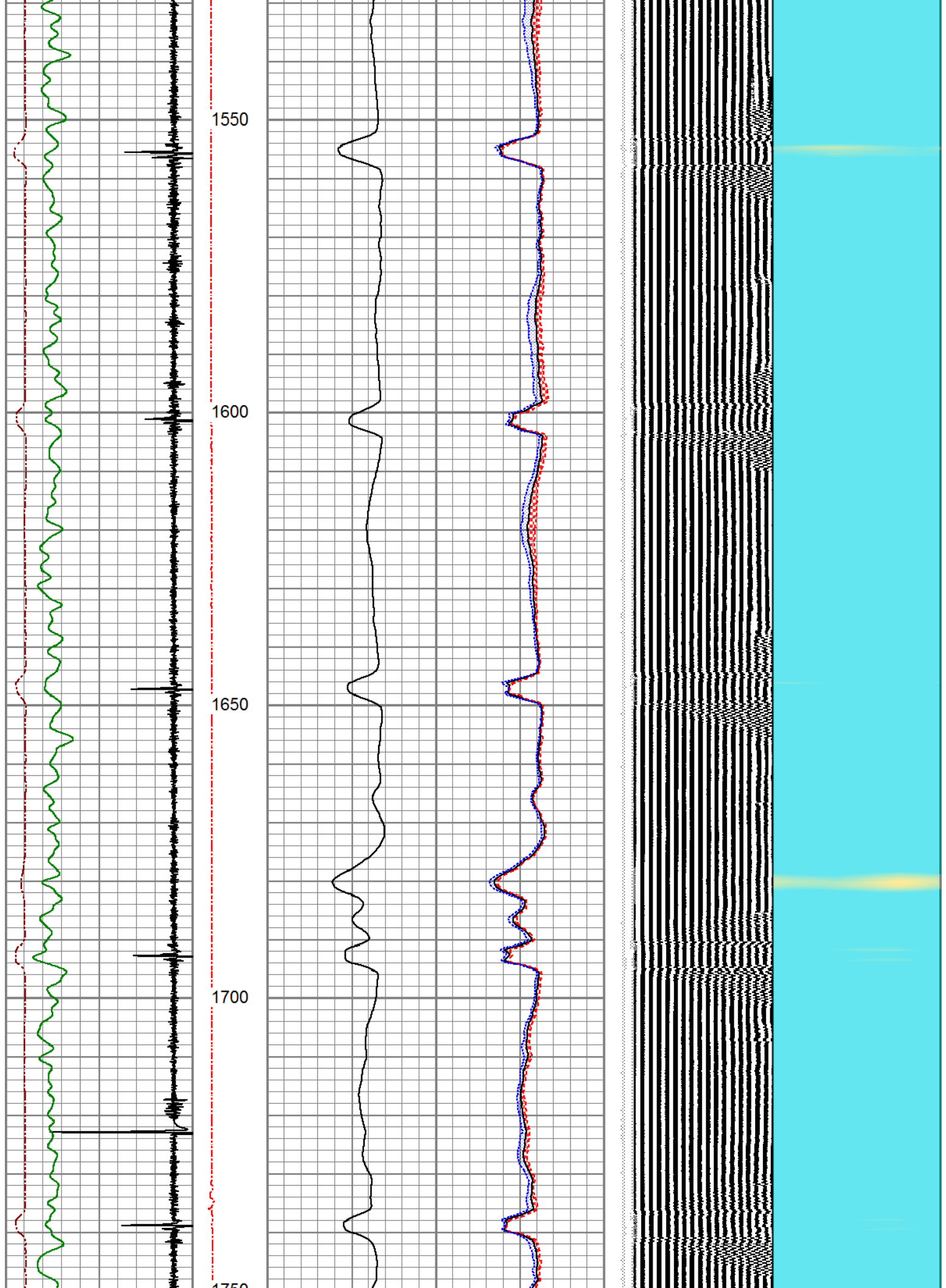


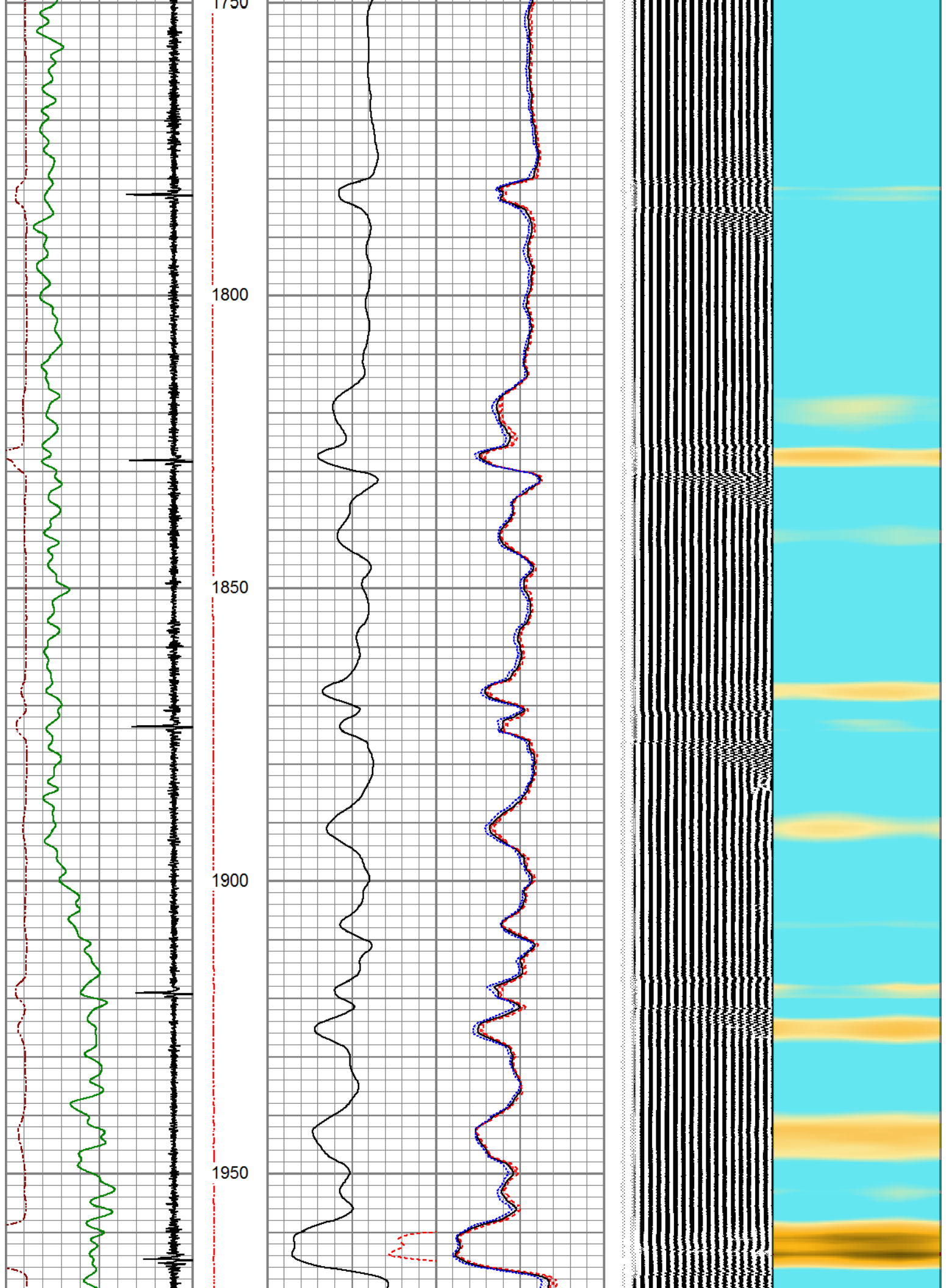


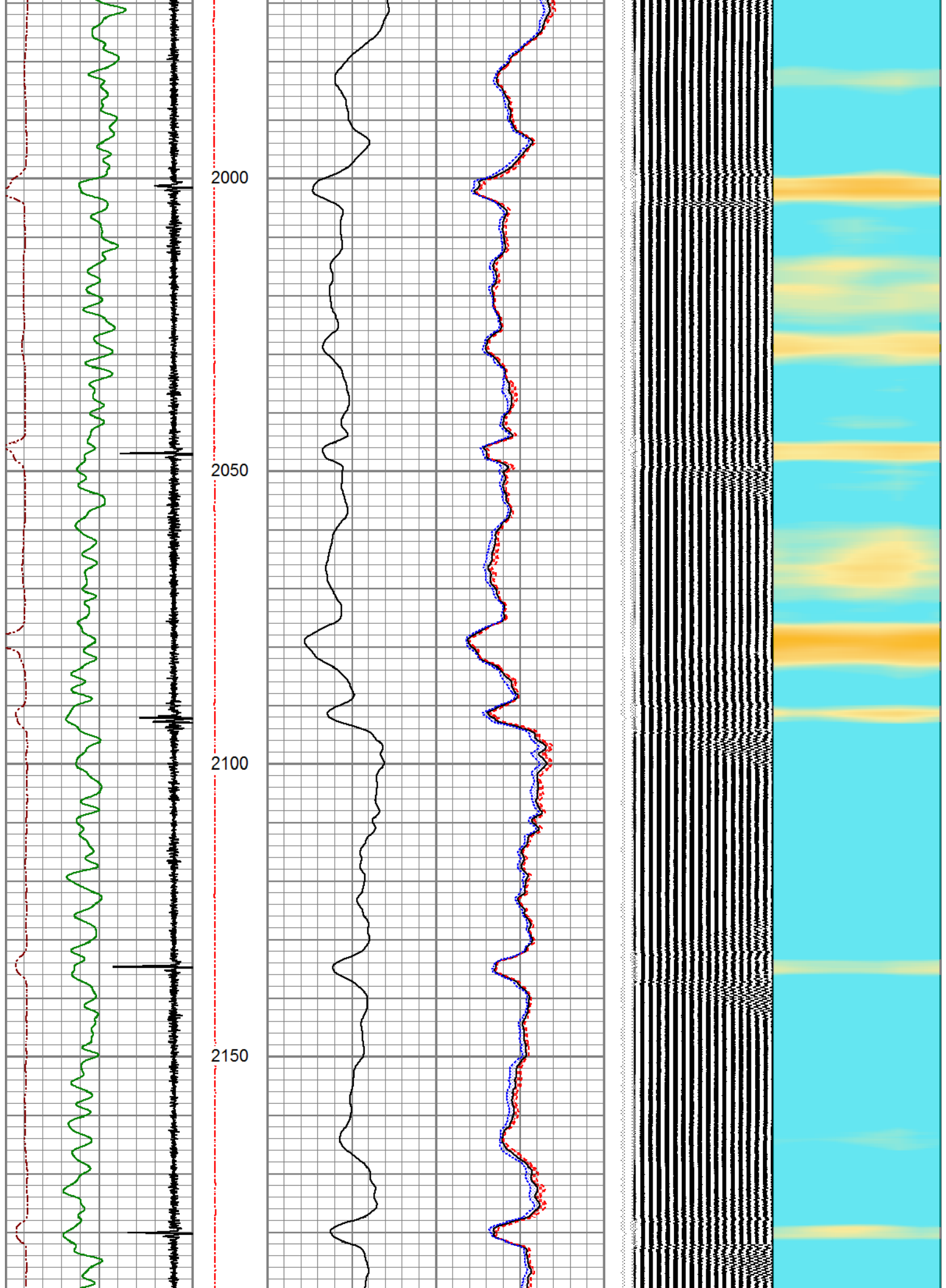




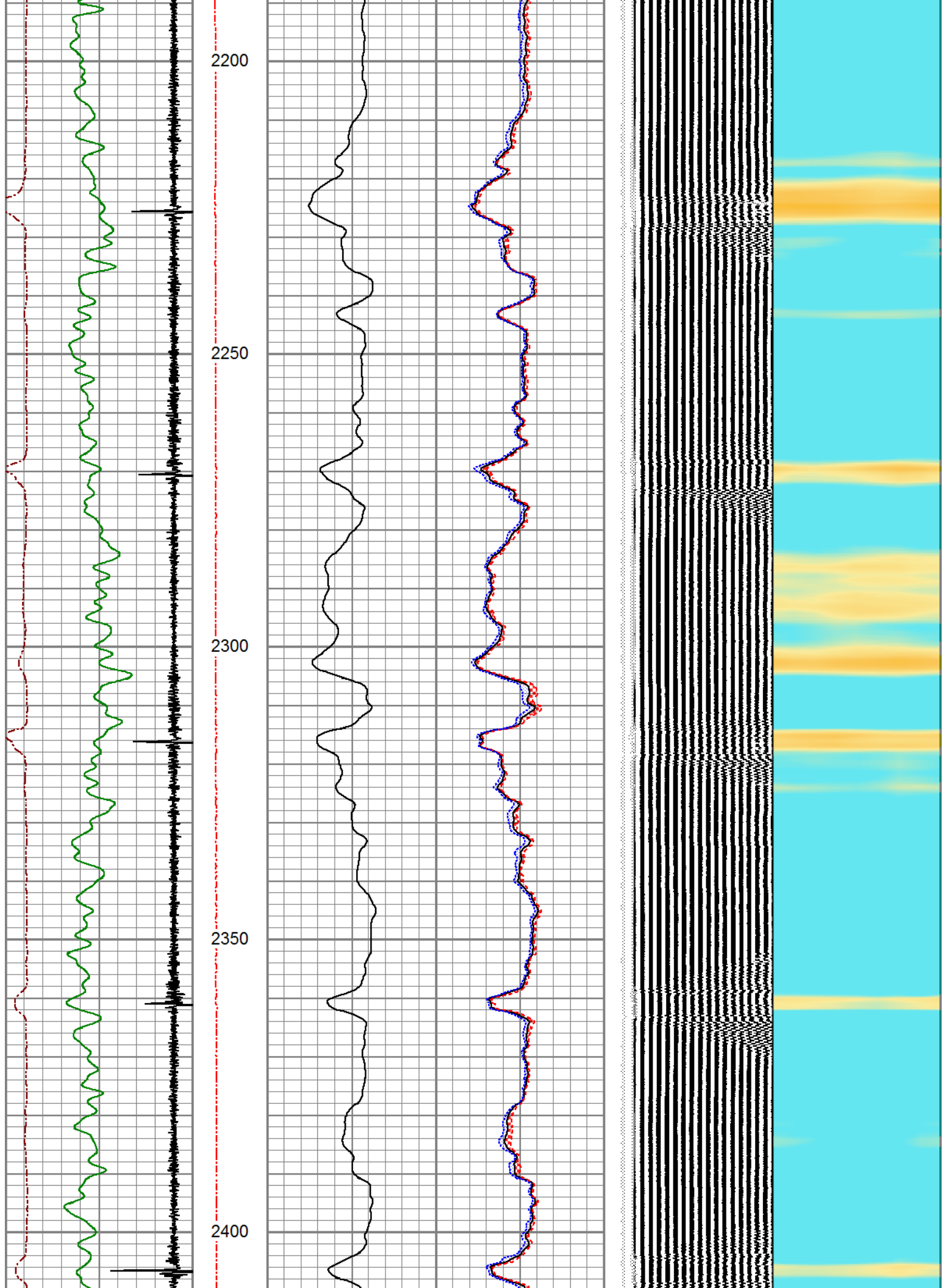


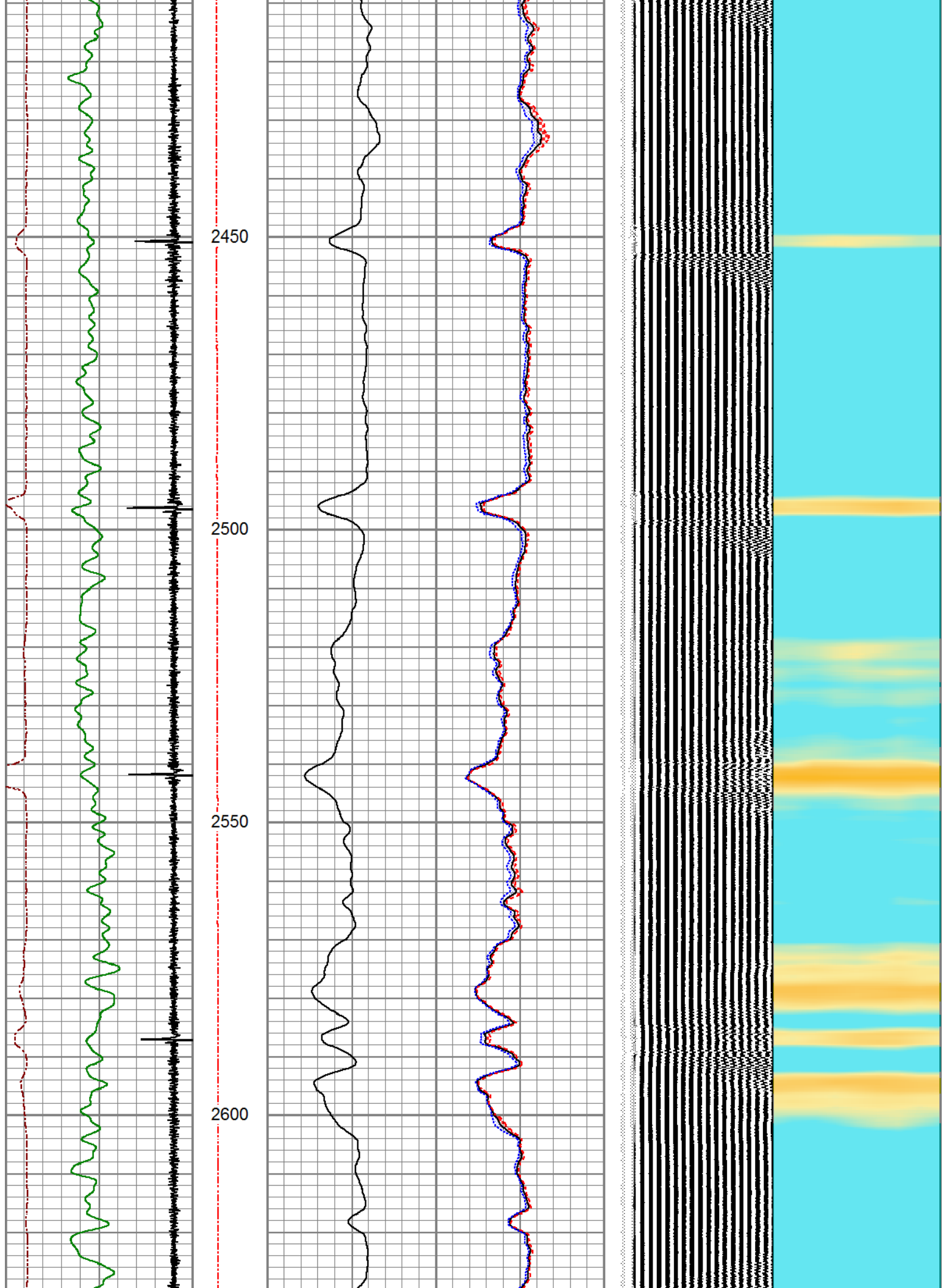


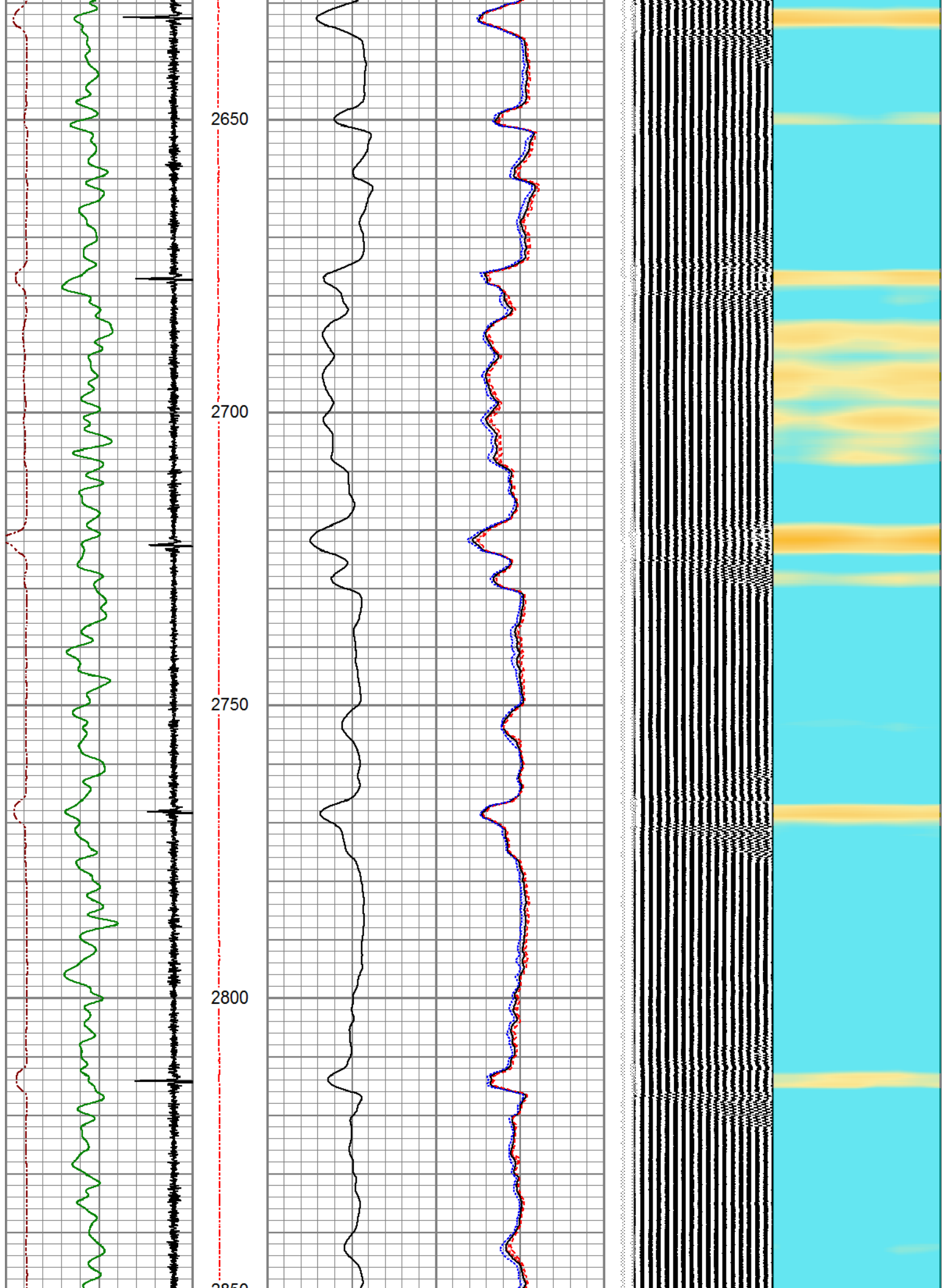


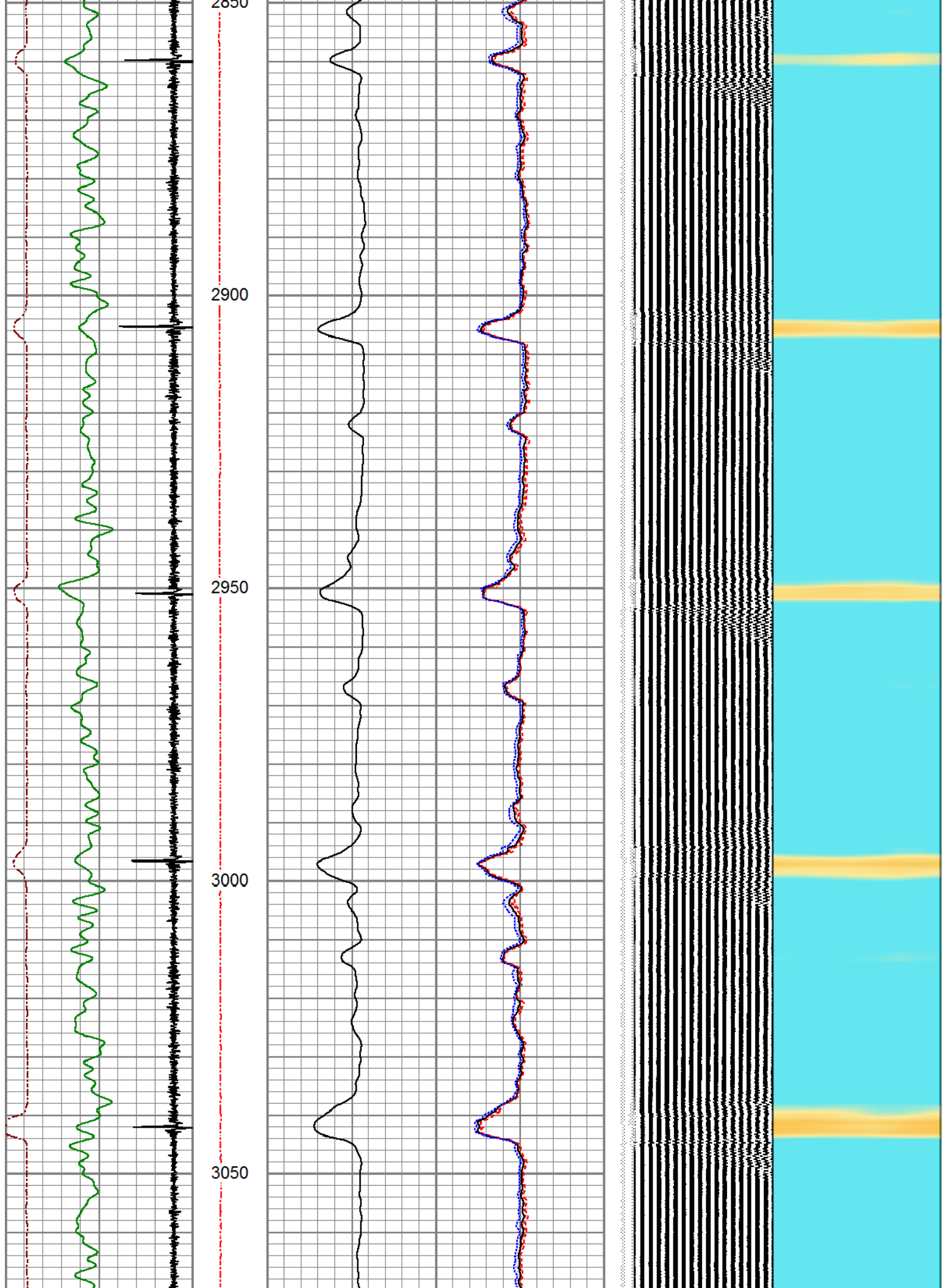


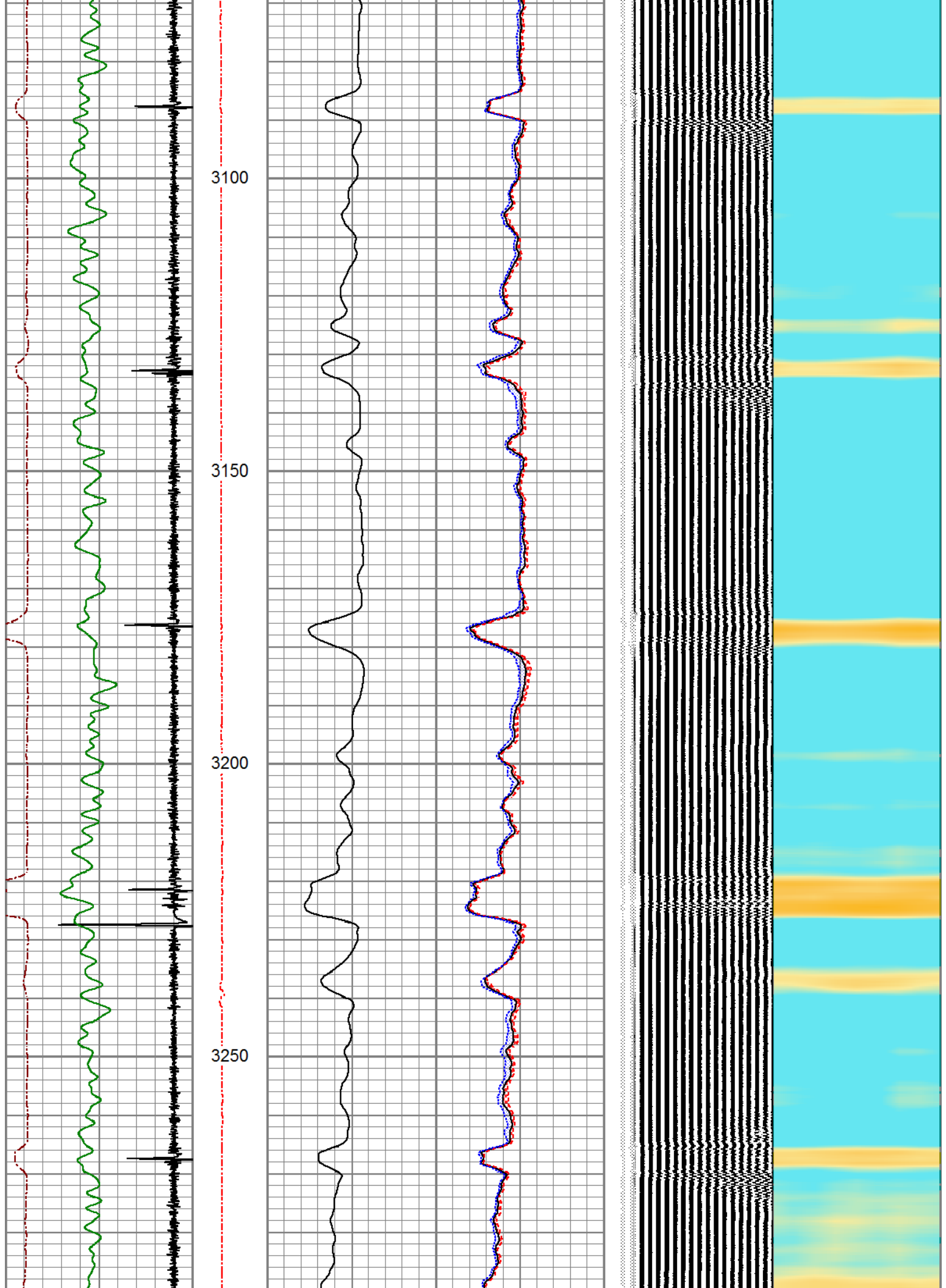




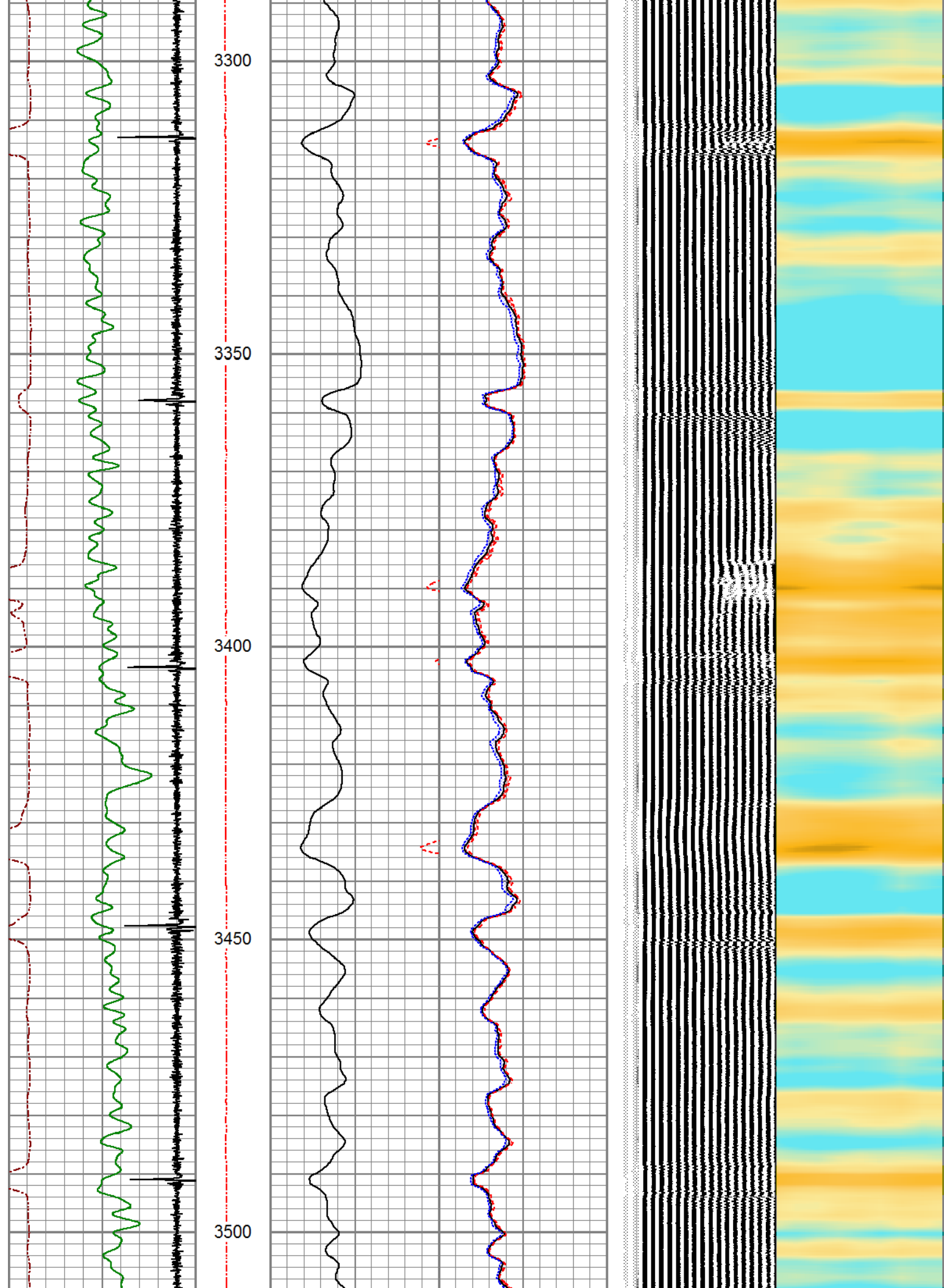




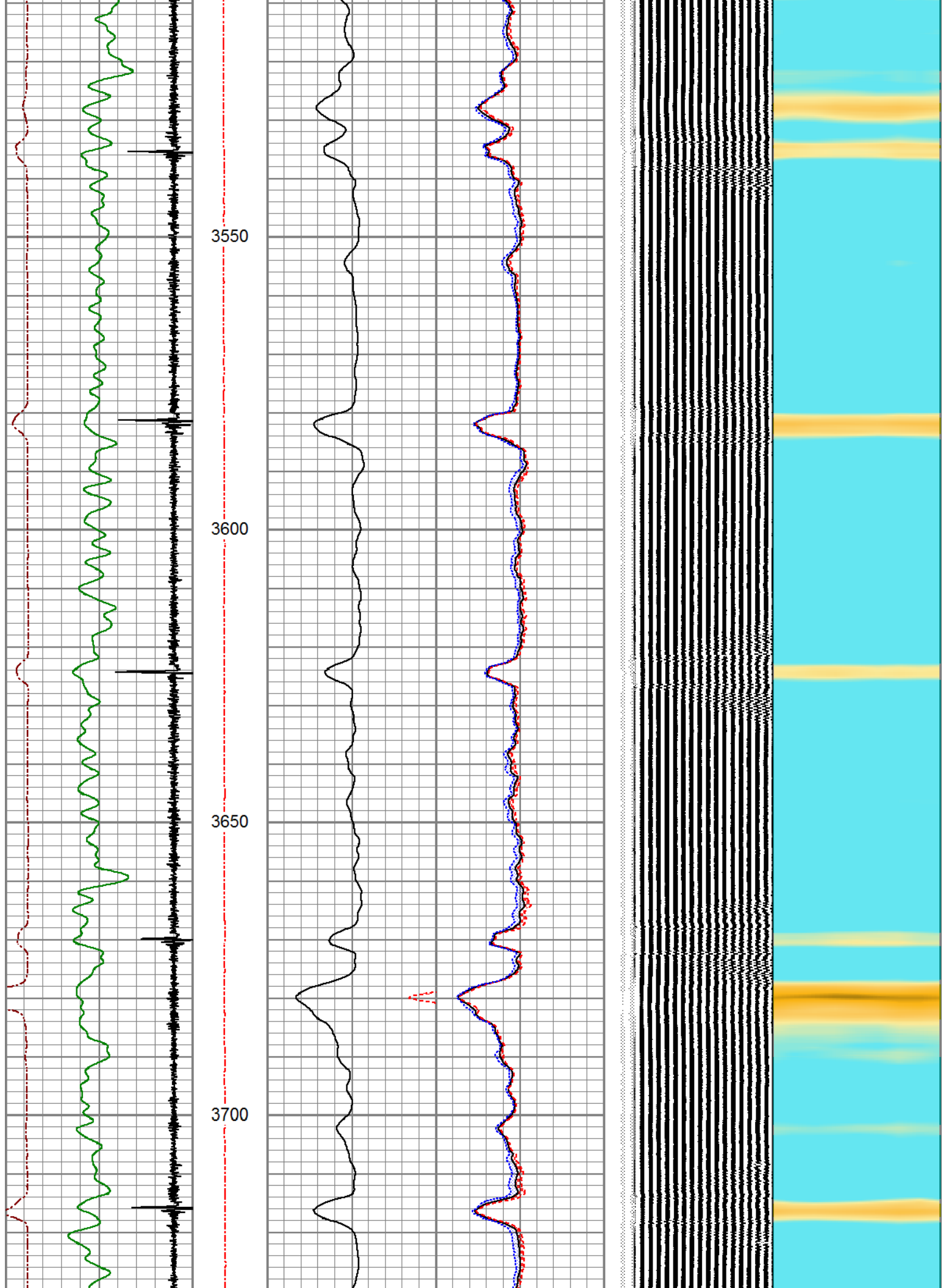


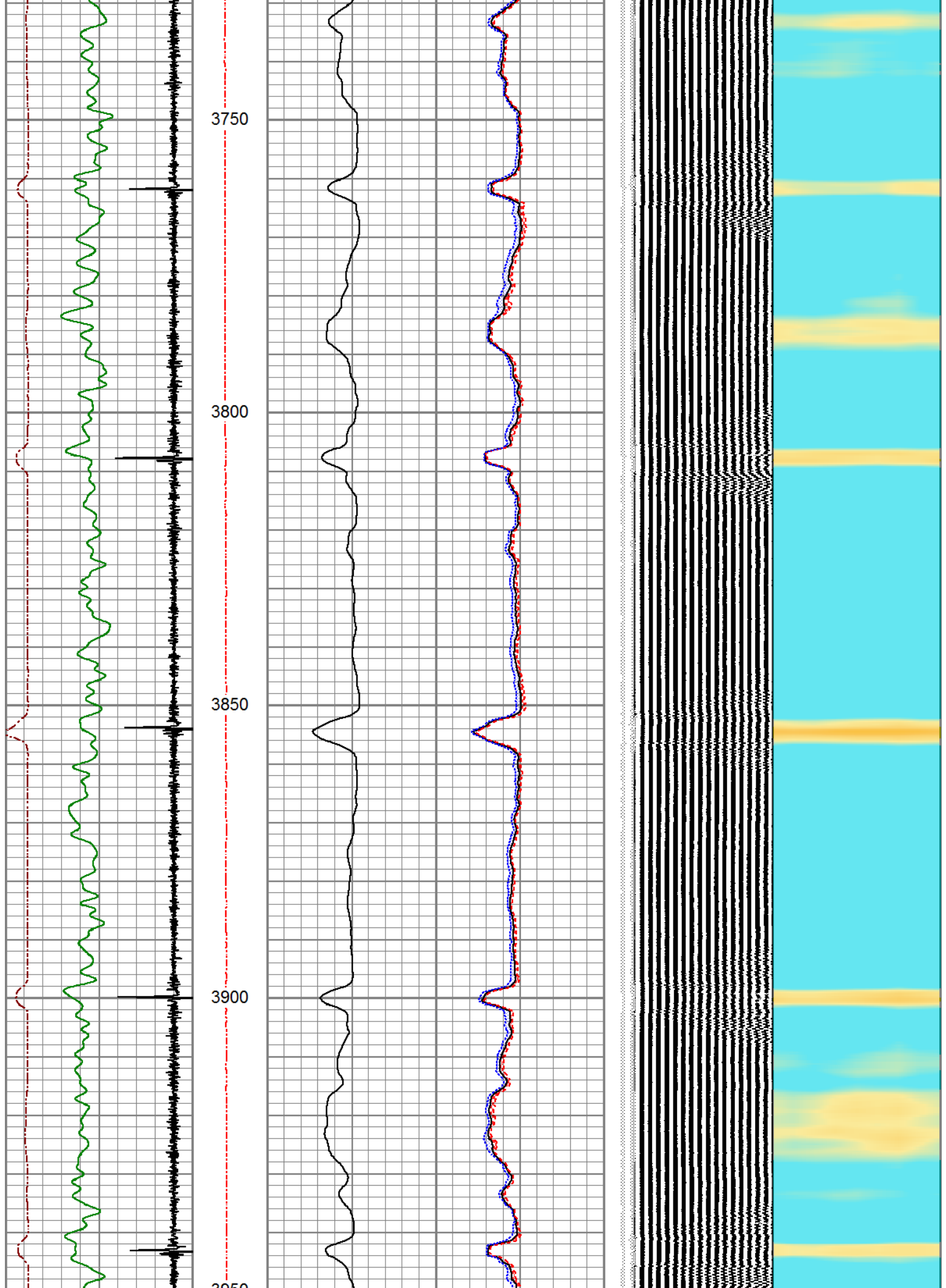


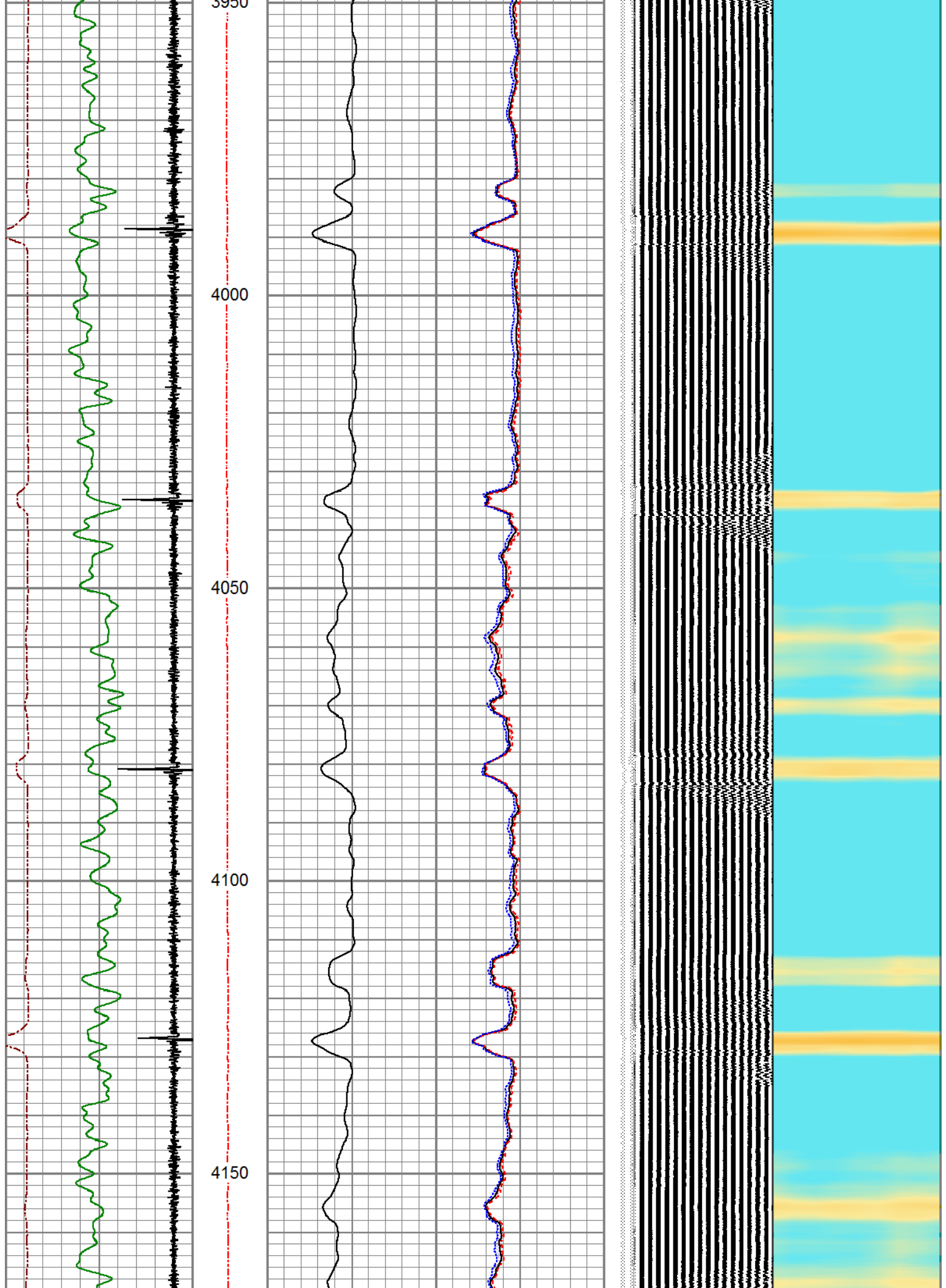


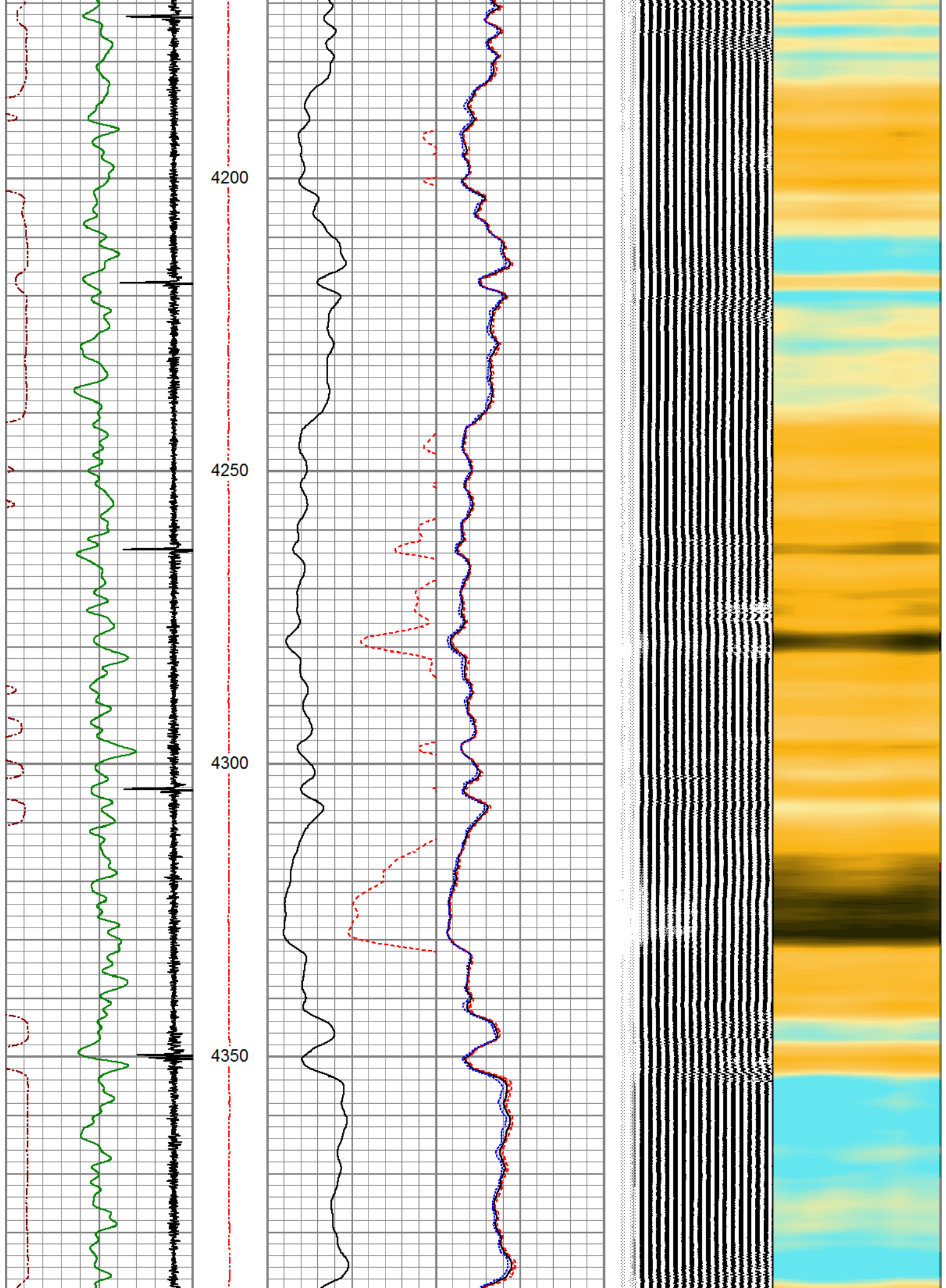


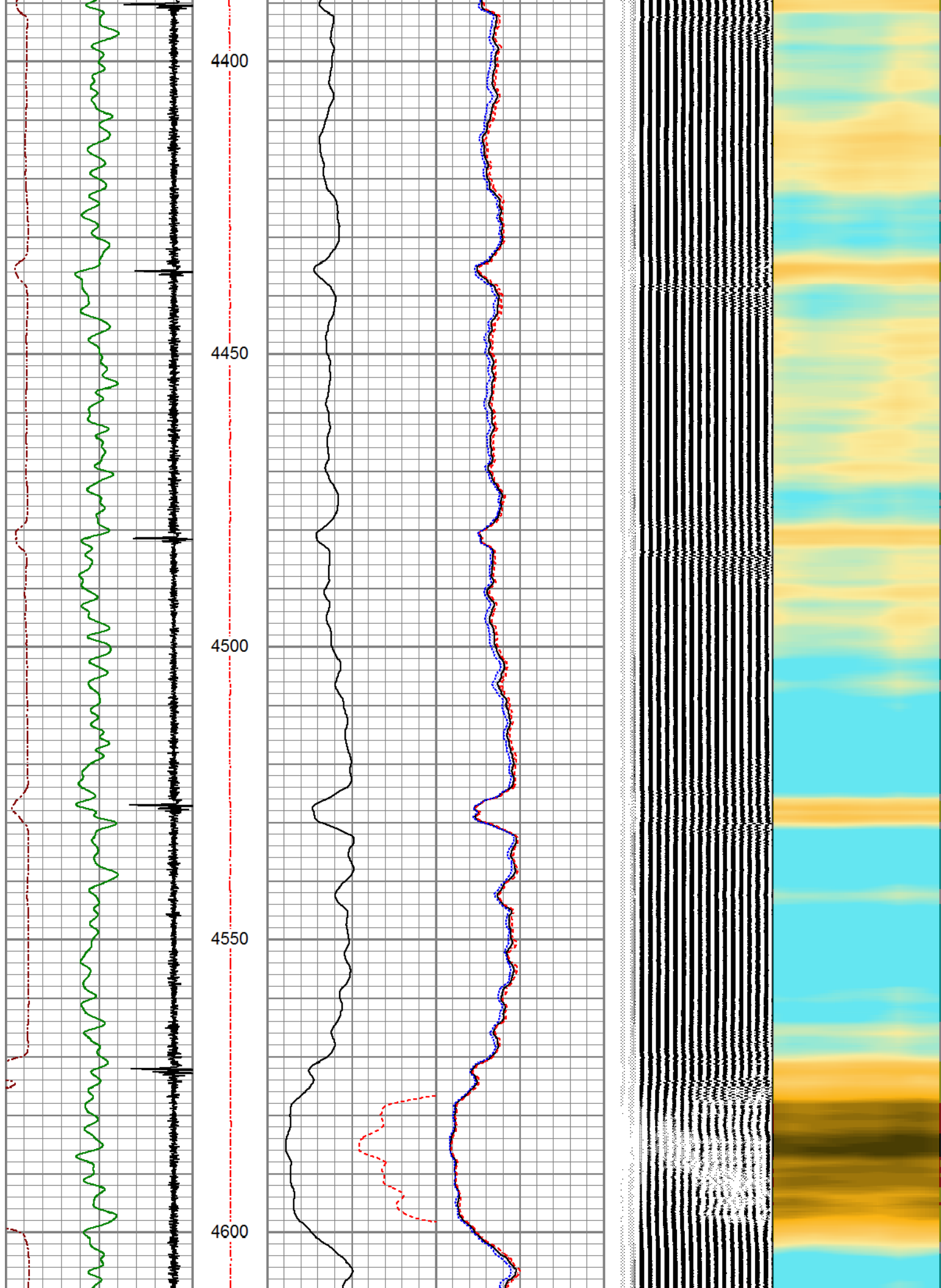




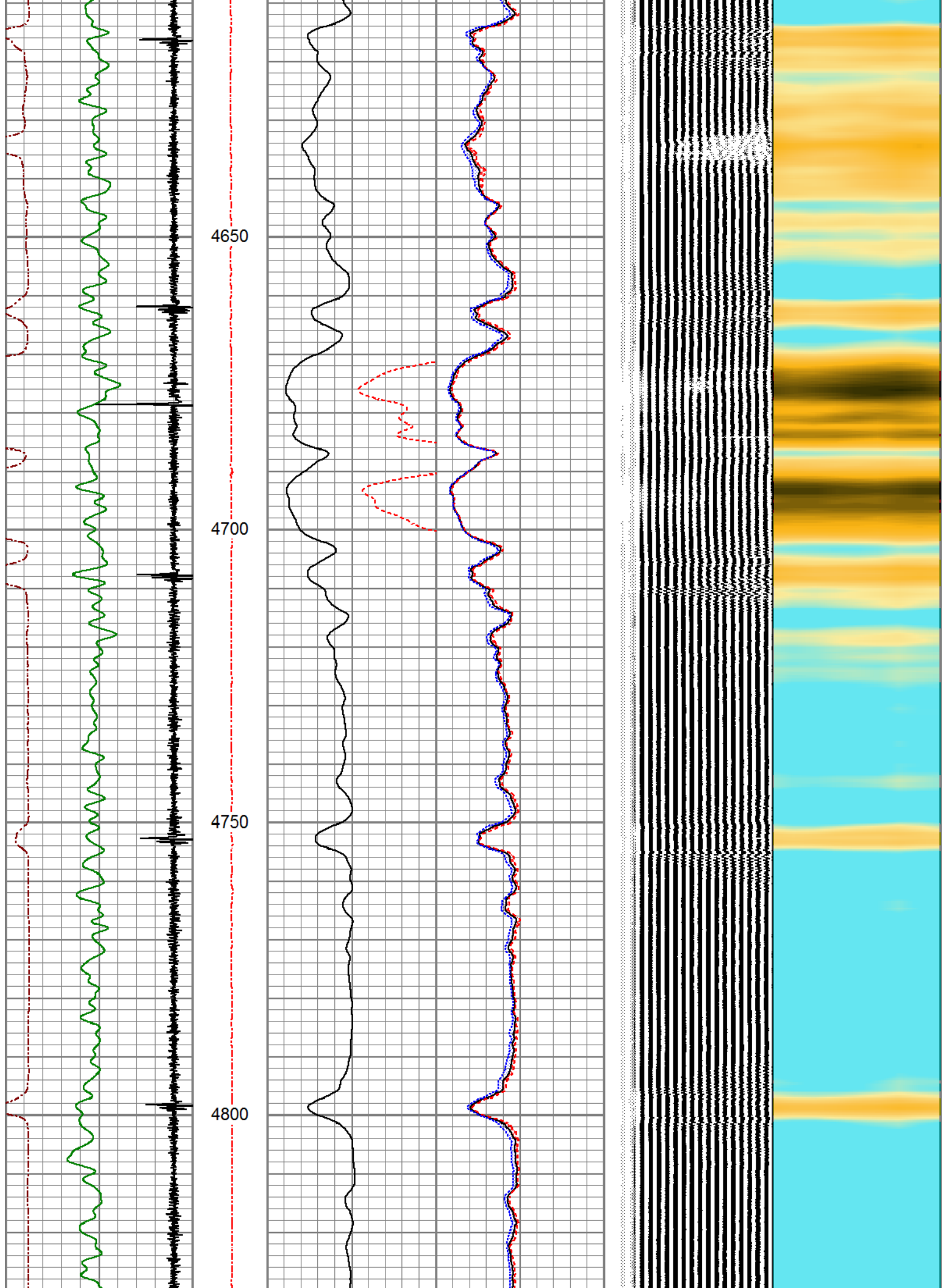




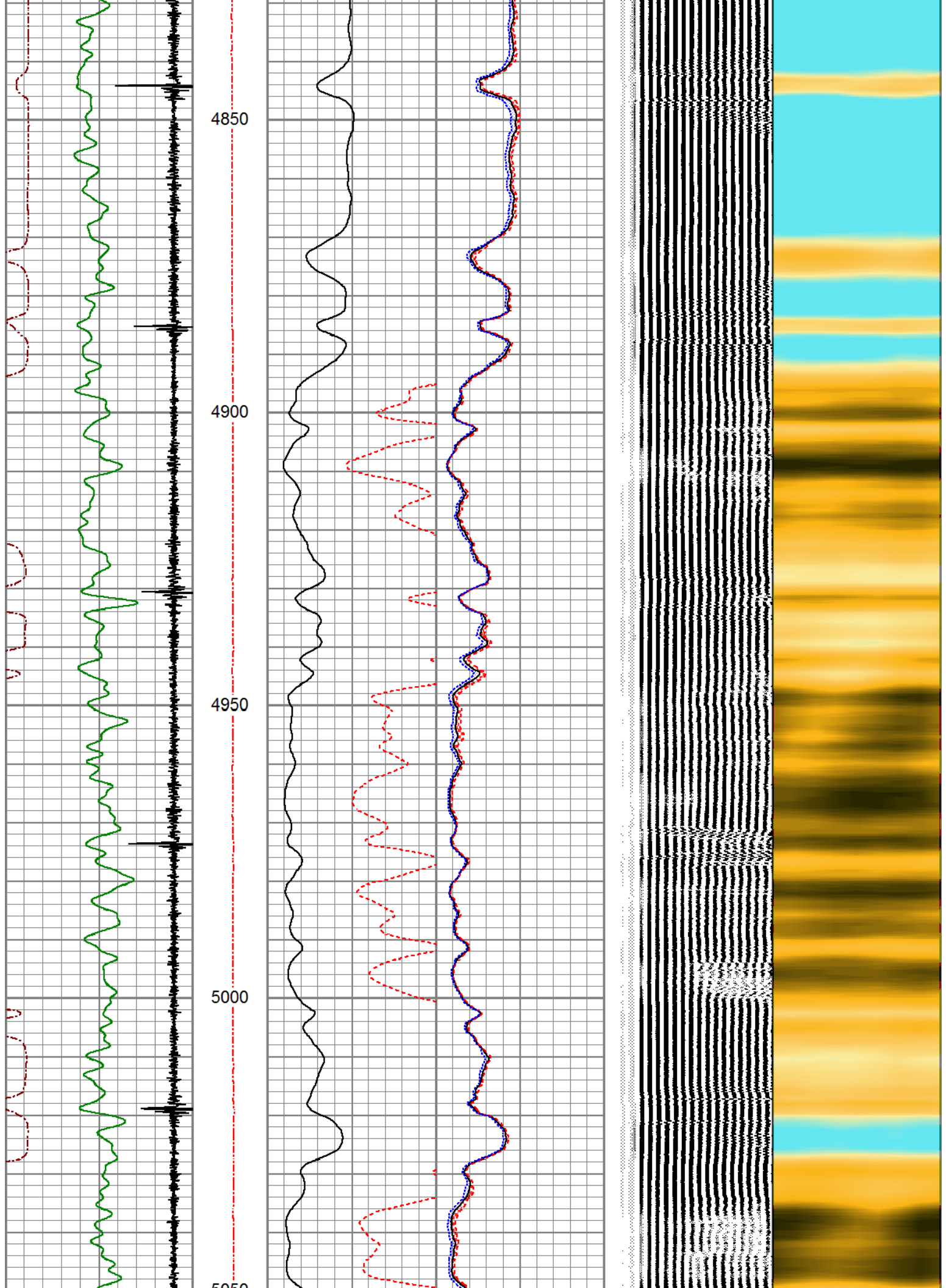


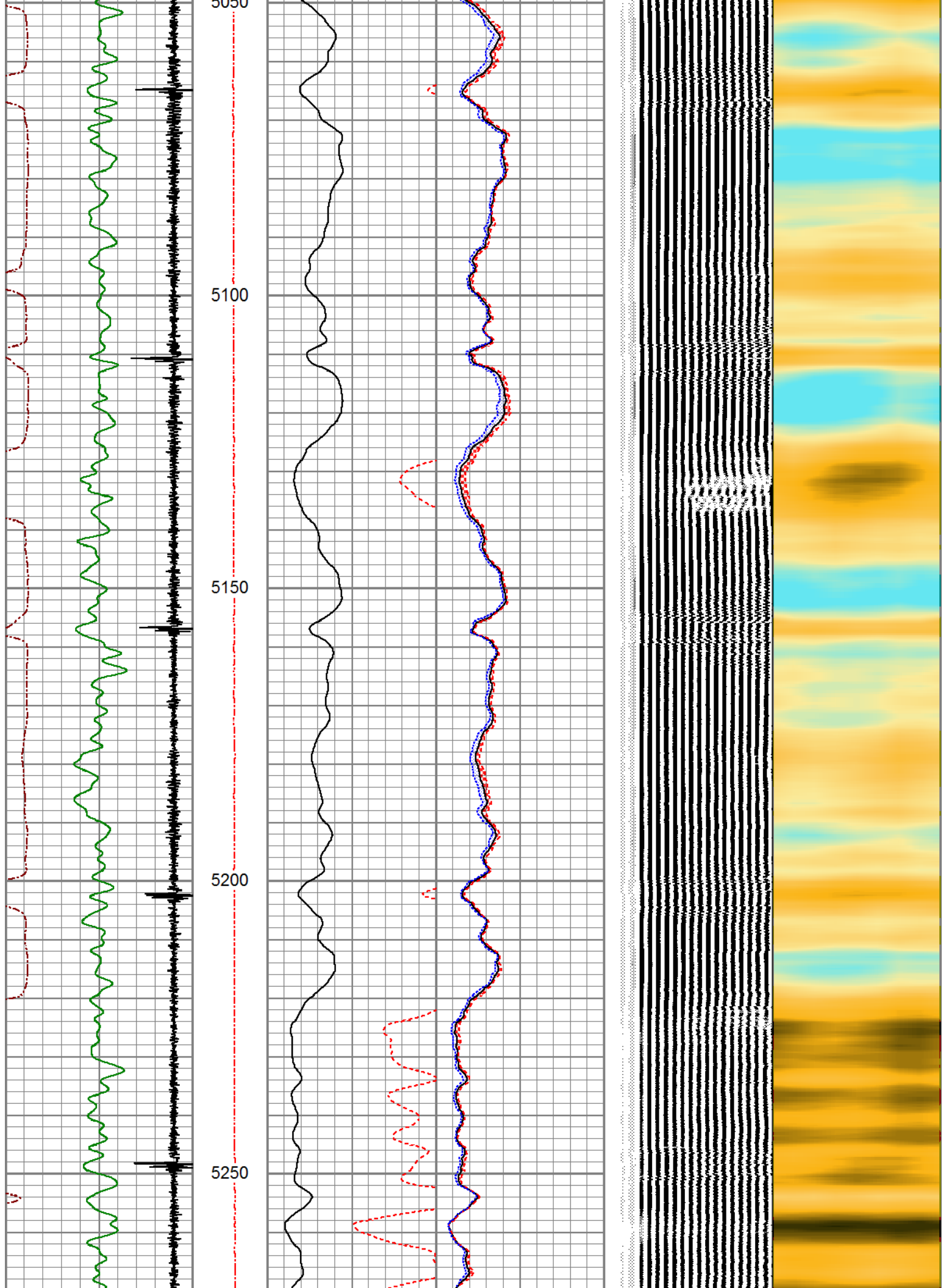


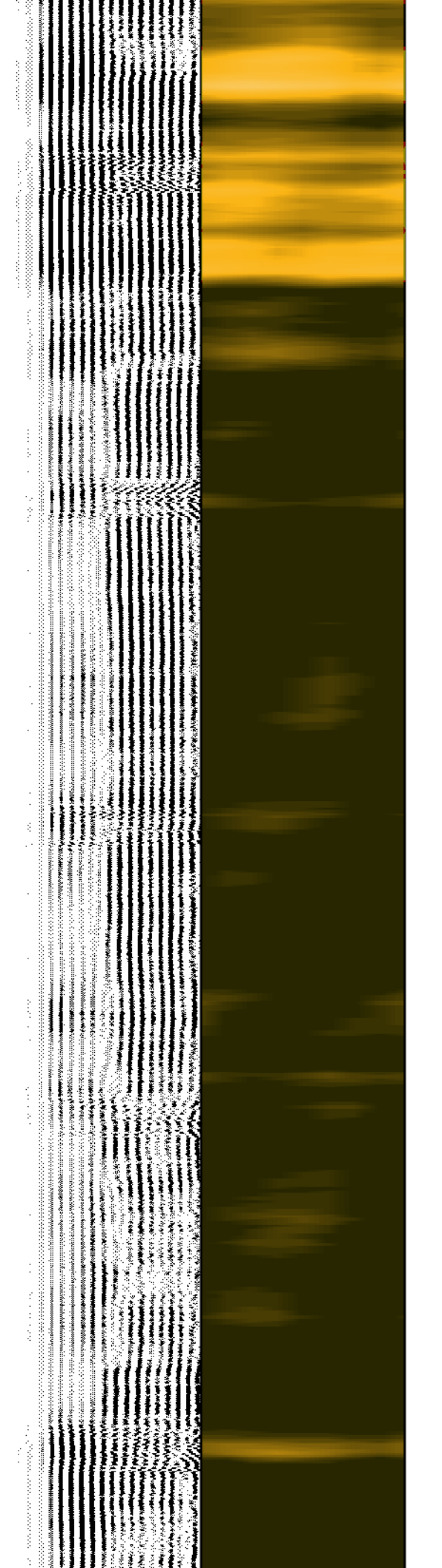
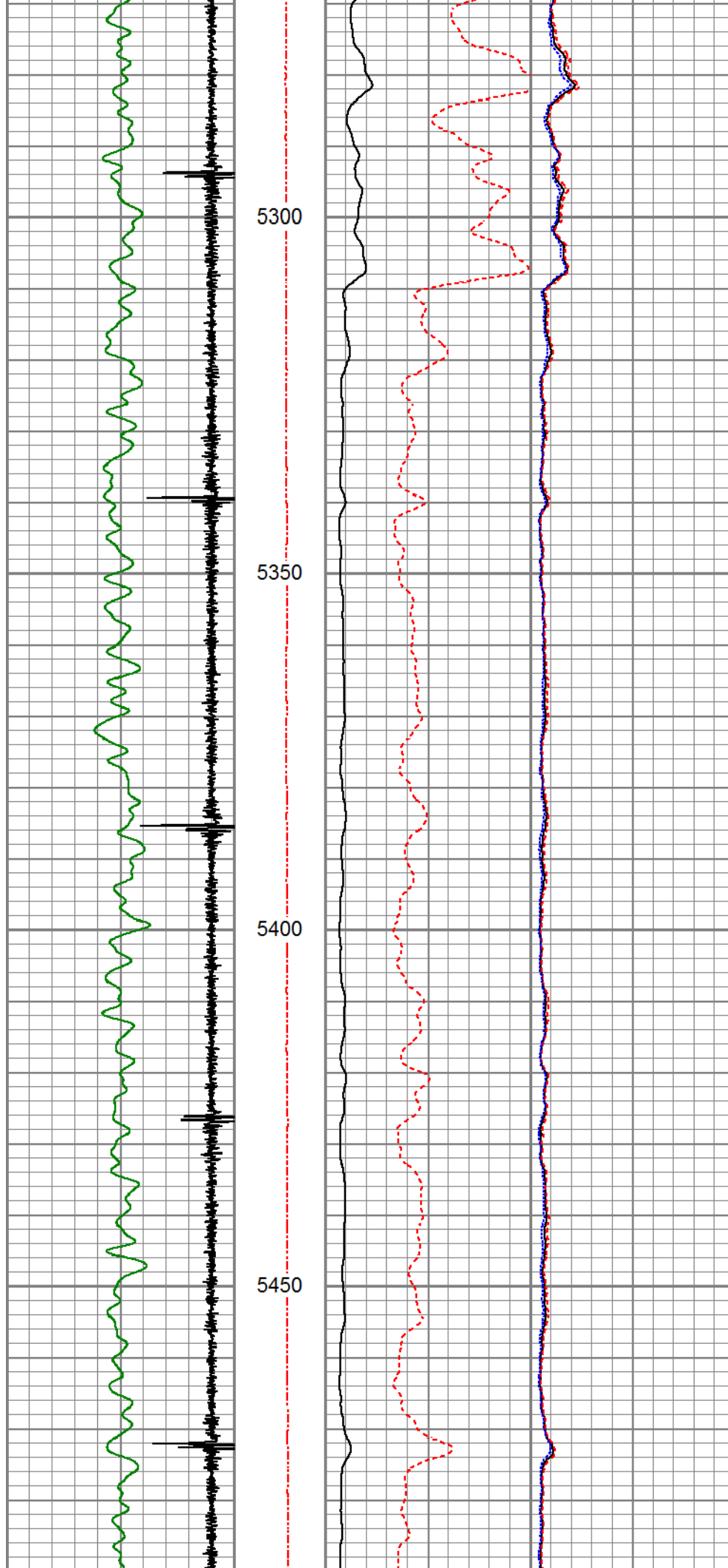


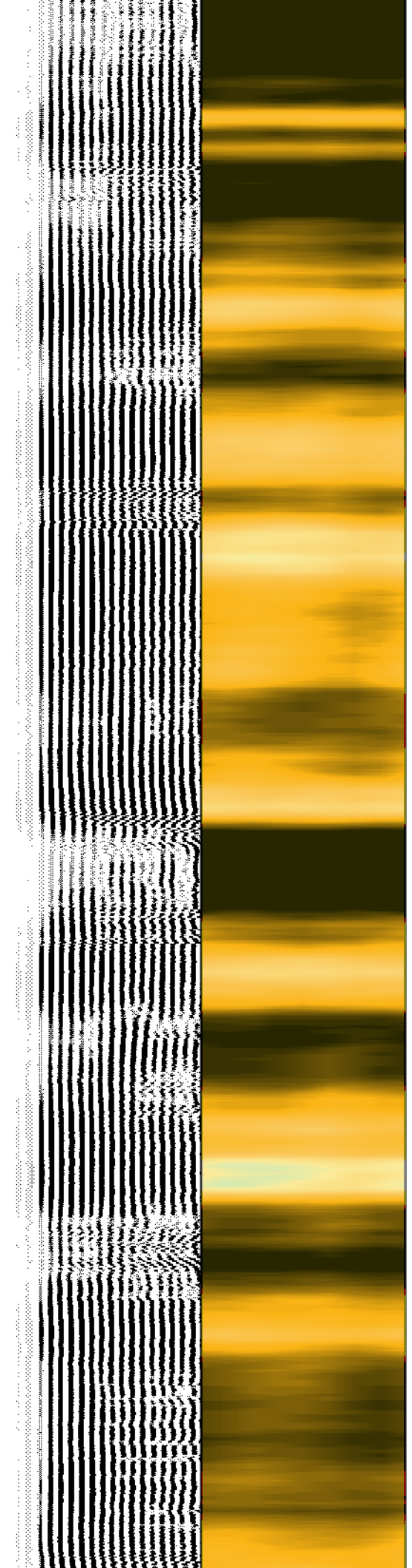
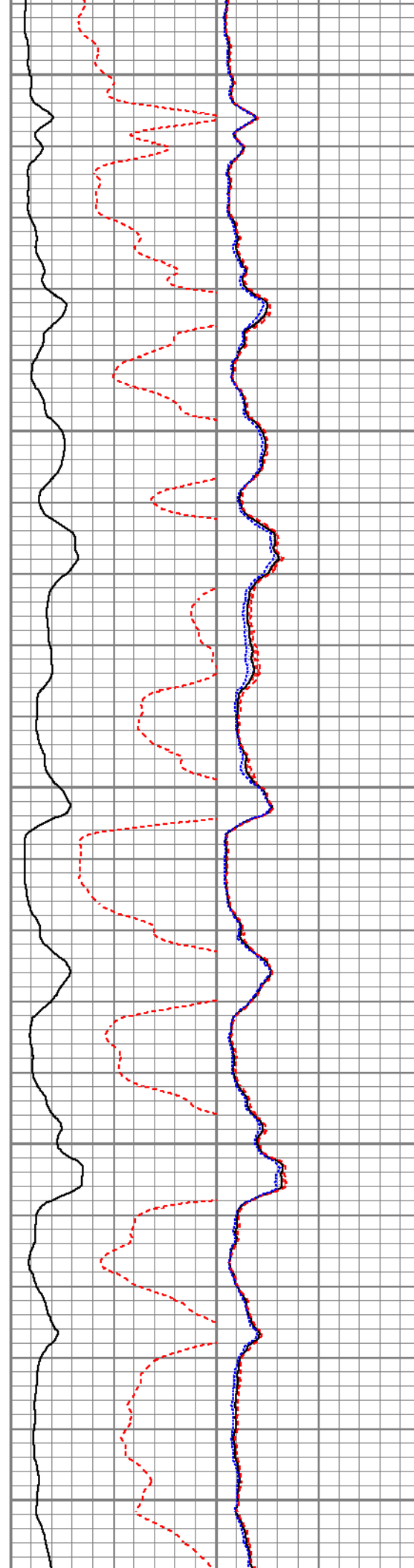
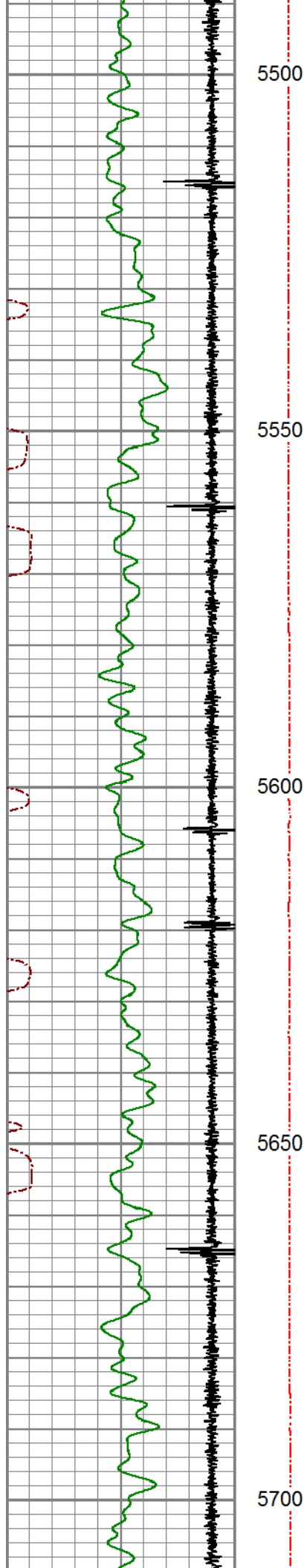




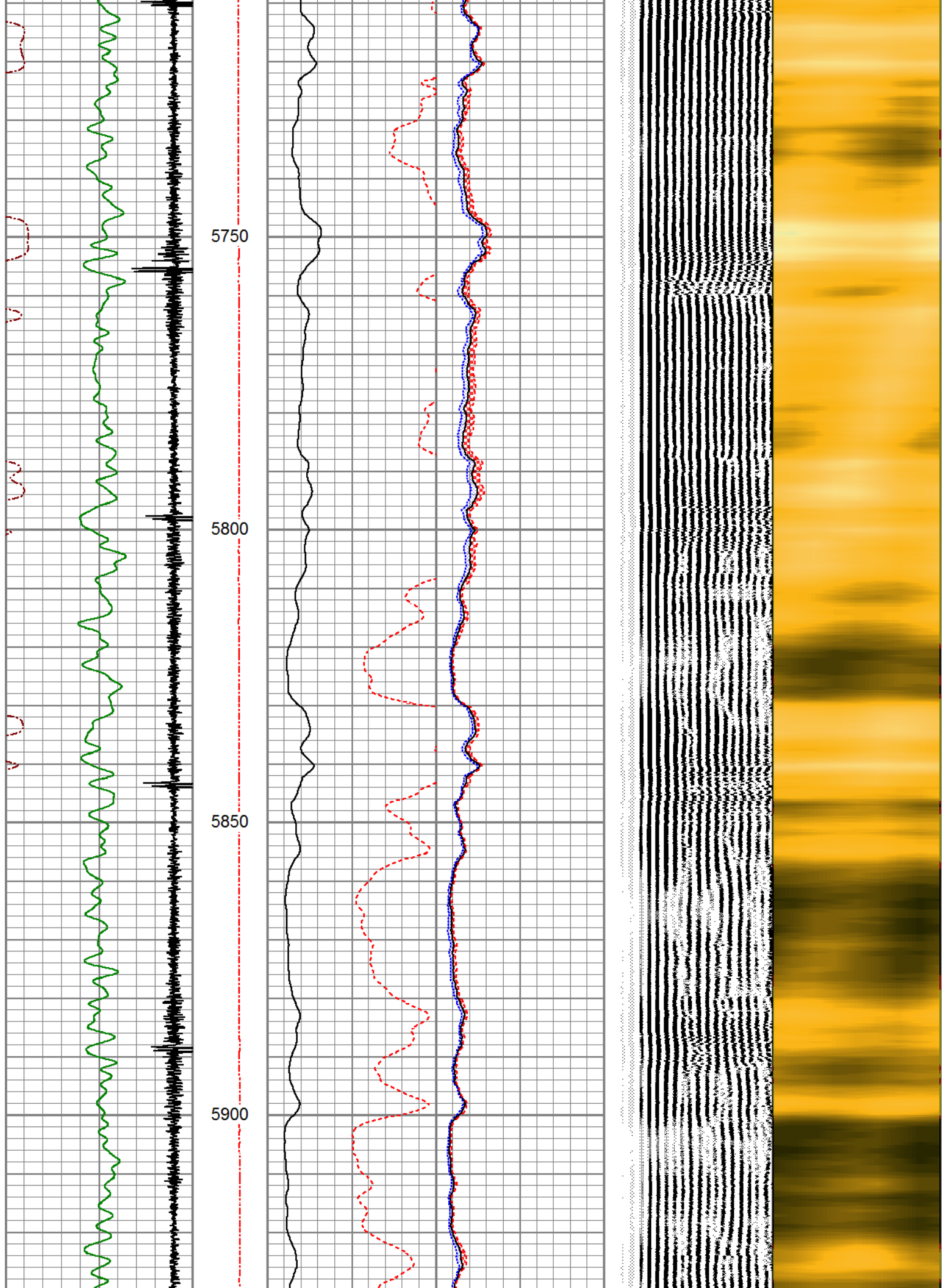


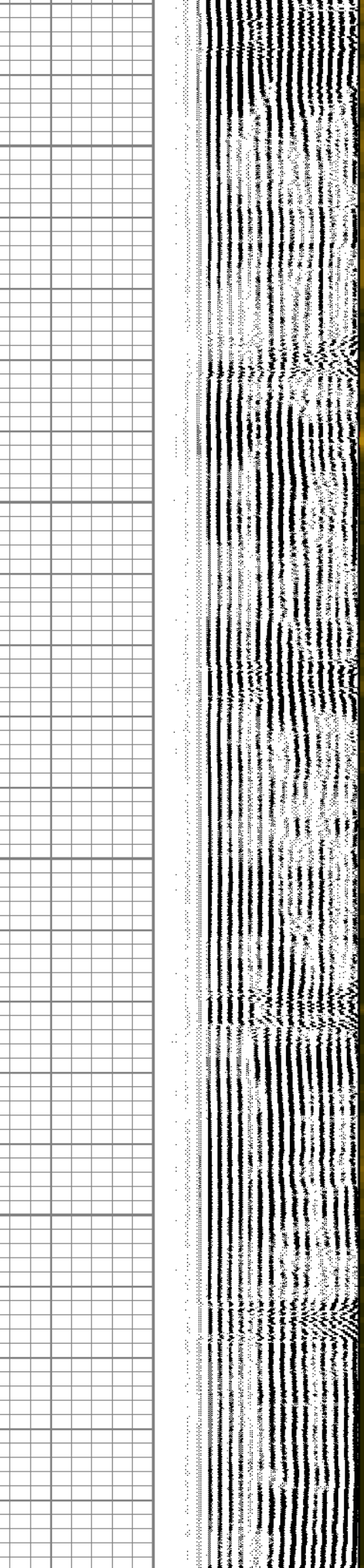
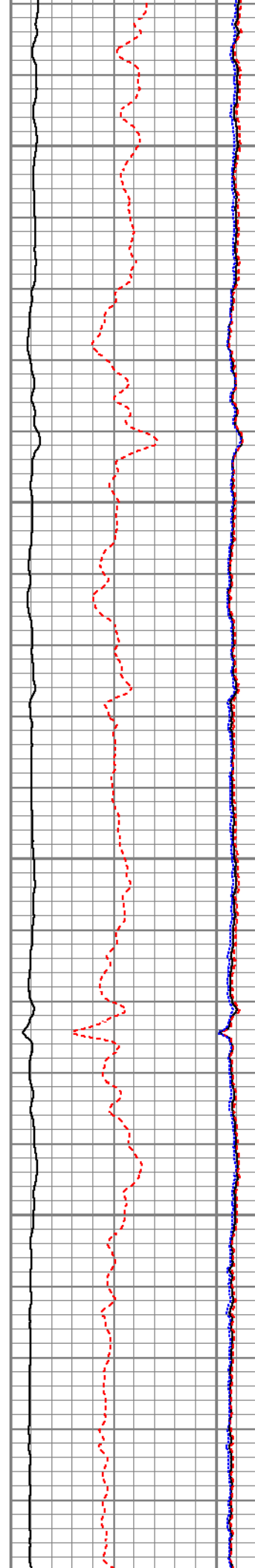
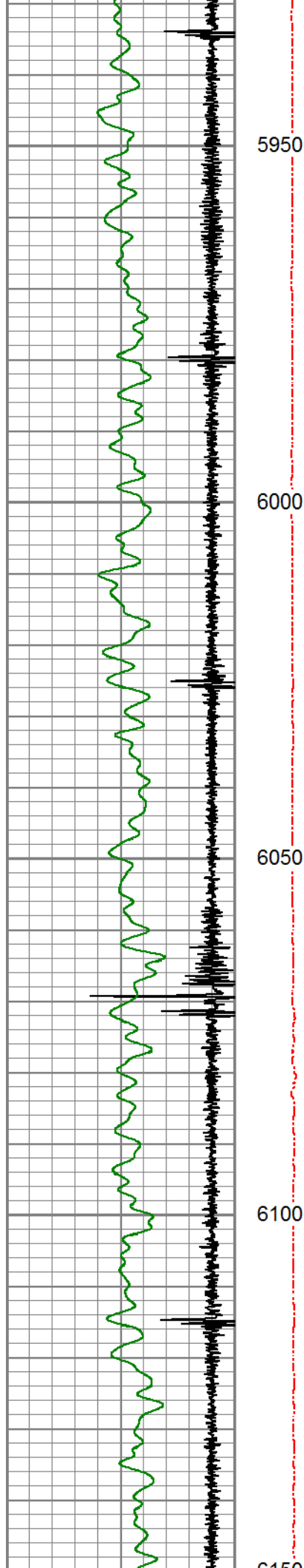




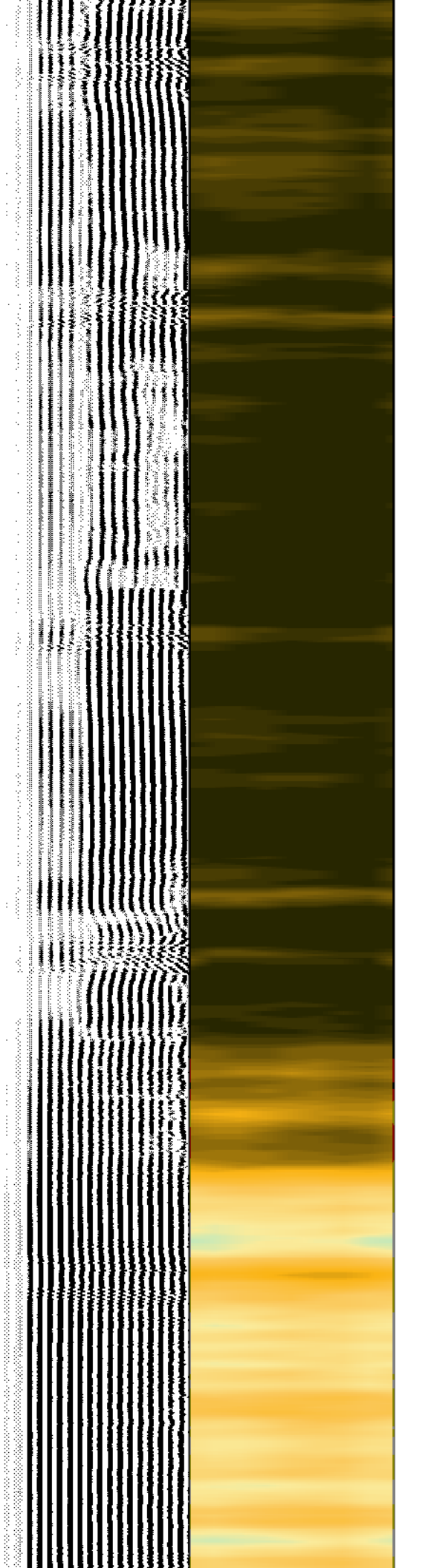
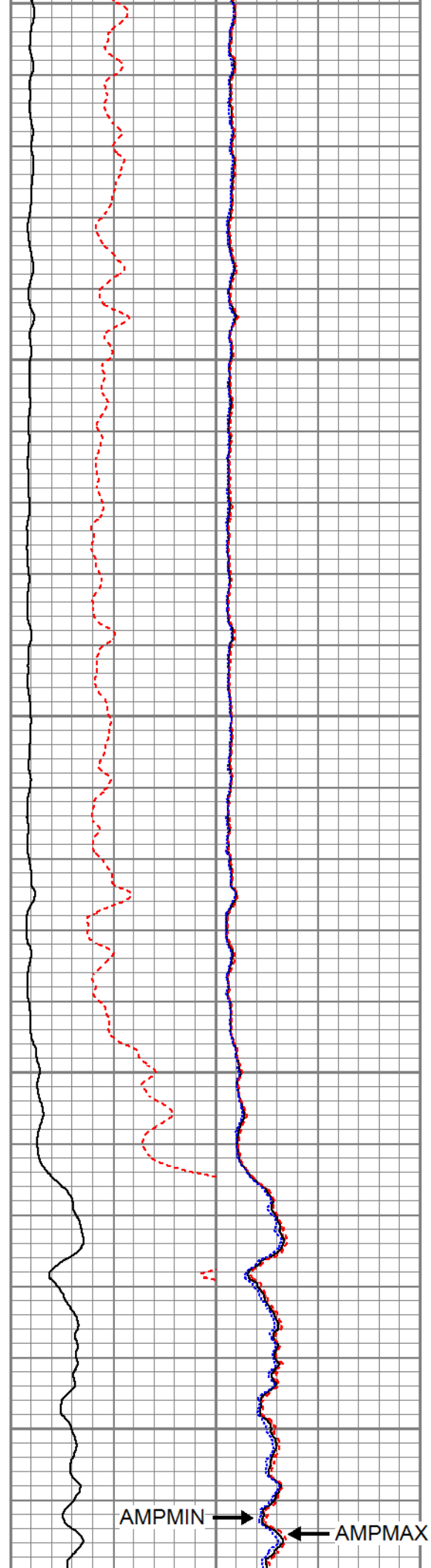
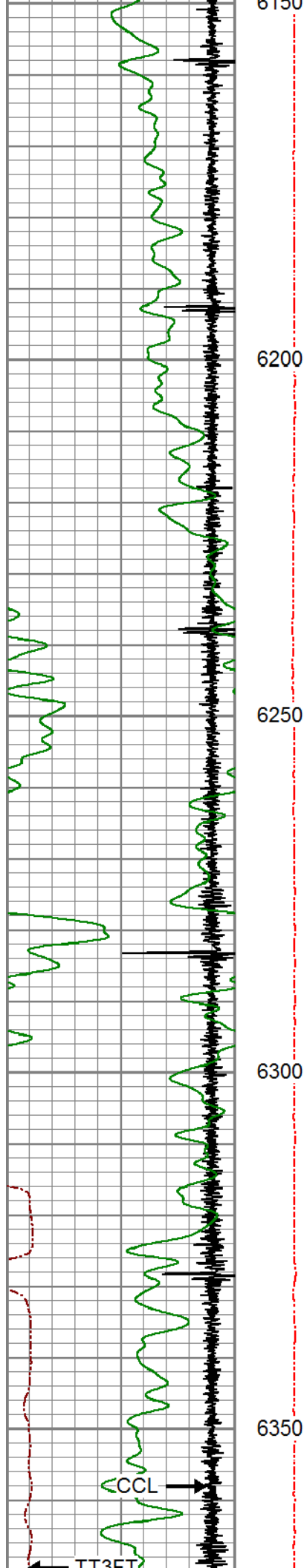


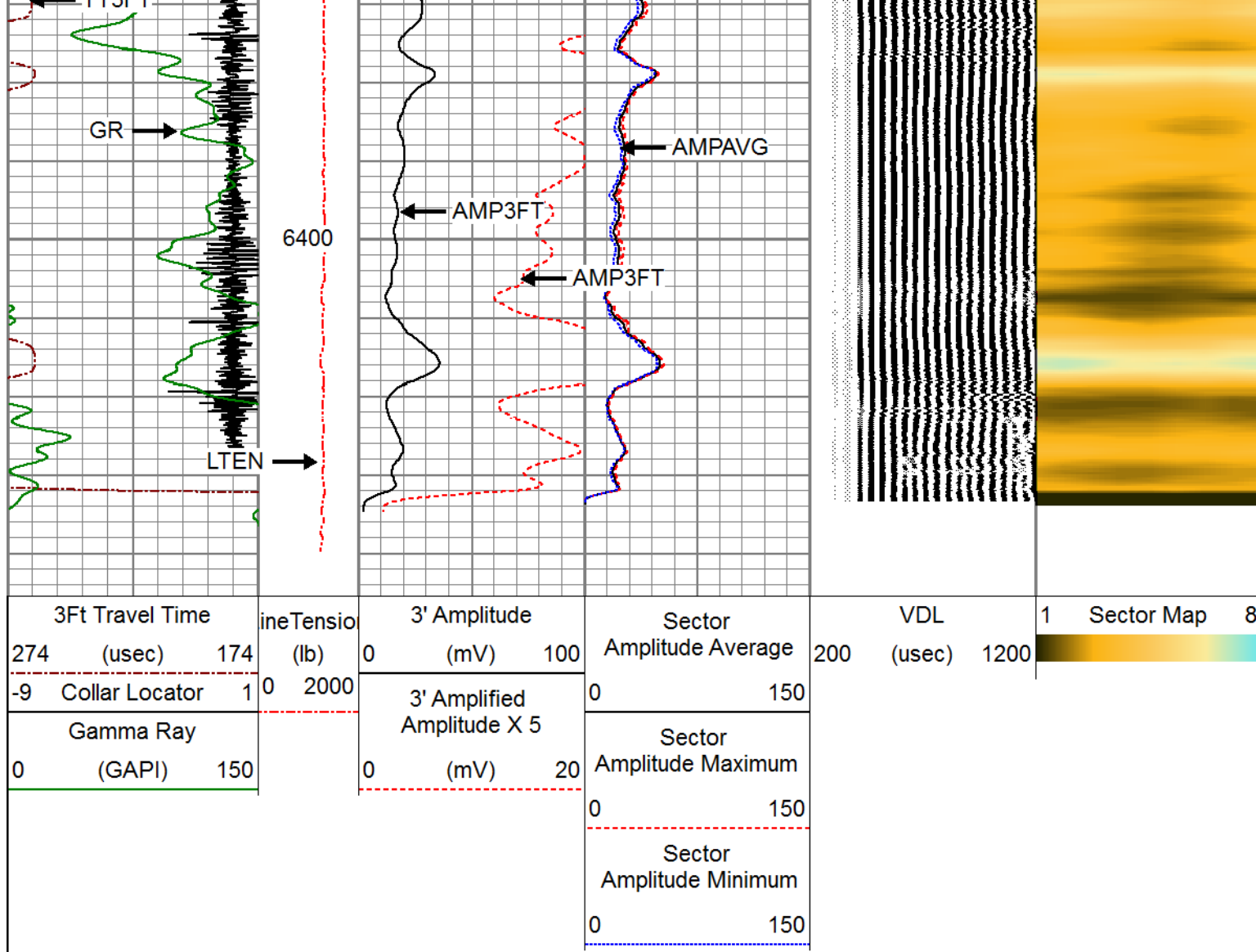
















## MAIN LOG

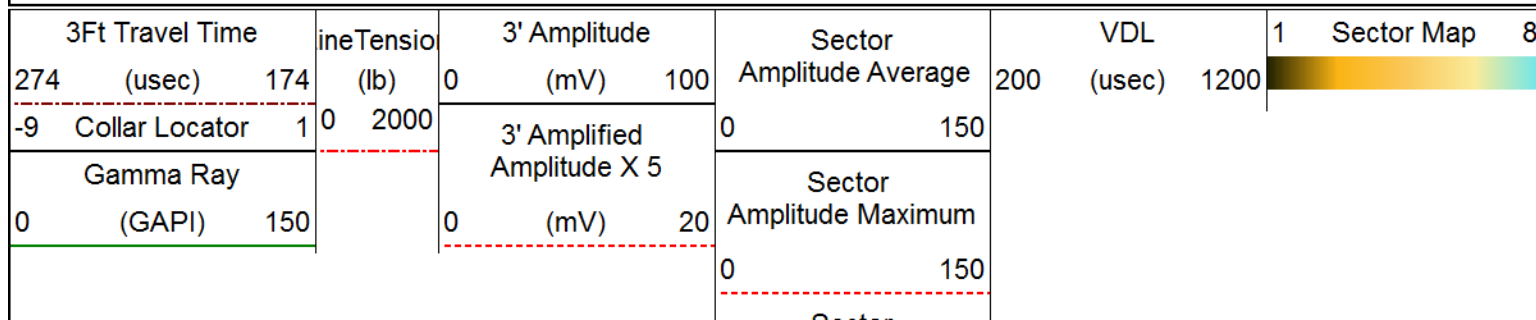
ZERO PSI APPLIED AT SURFACE



## REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

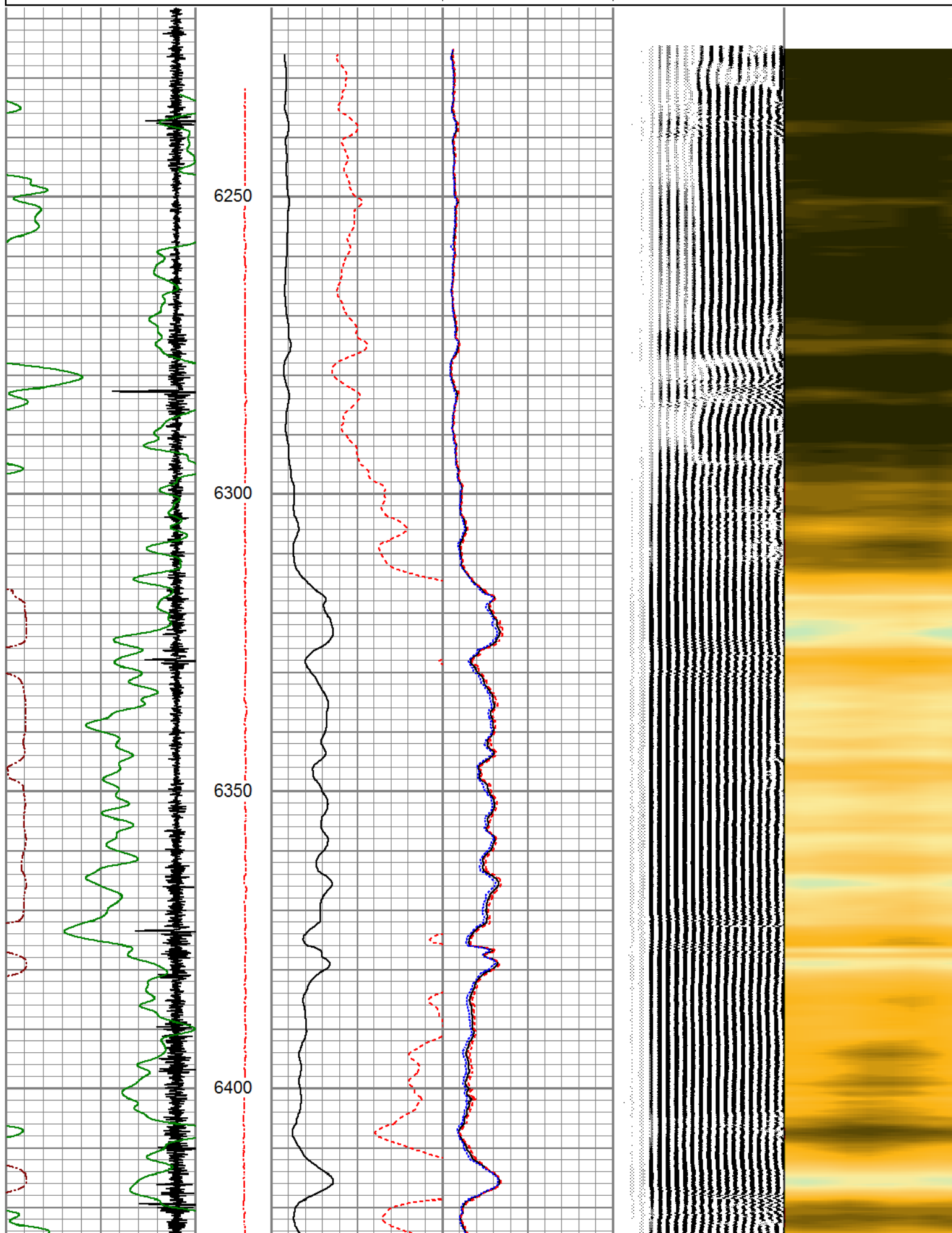
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Dataset Pathname	pass4
Presentation Format	pinr_scbl
Dataset Creation	Sat Jul 06 16:23:05 2019
Charted by	Depth in Feet scaled 1:240

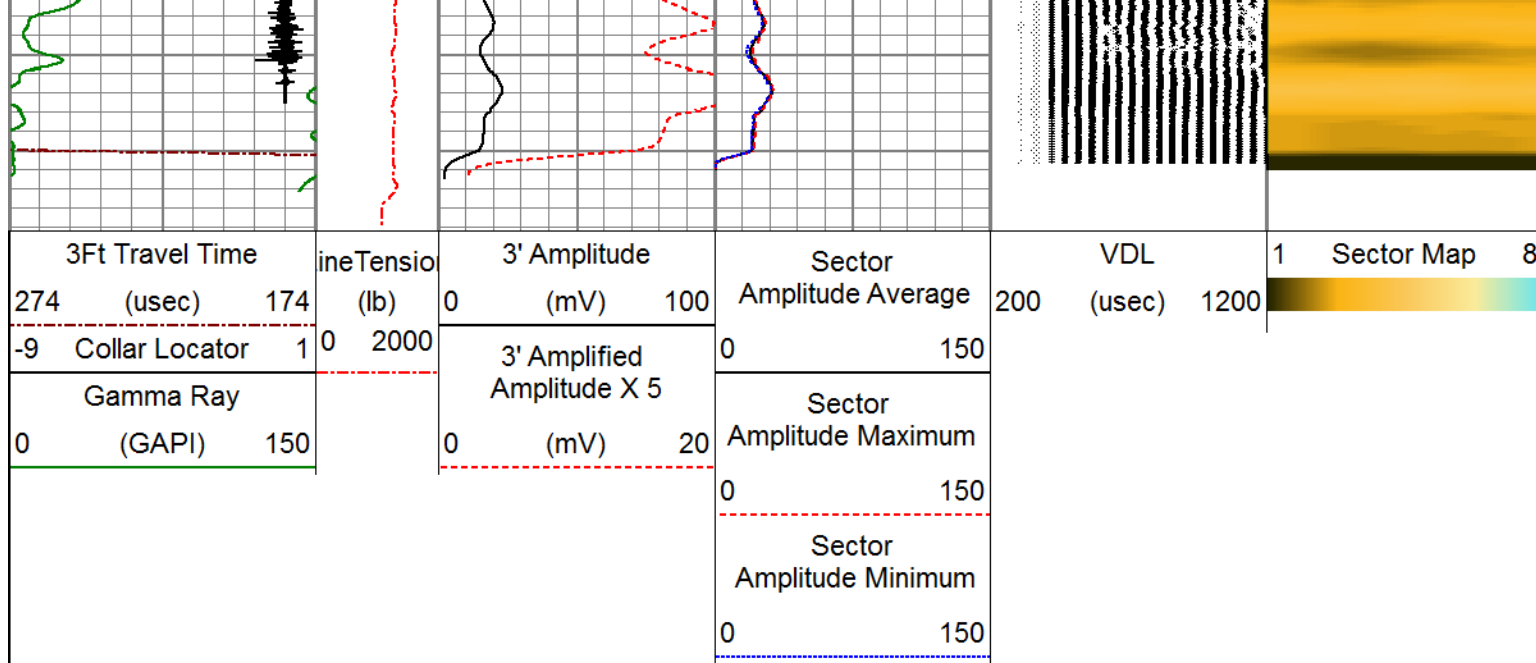


Sector  
Amplitude Minimum

0

150





Calibration Report		
Database File	verdad_timbro9-59#8b-9-8_0512347572_20190706_scbl.db	
Dataset Pathname	pass5	
Dataset Creation	Sat Jul 06 16:27:24 2019	

Gamma Ray Calibration Report		
Serial Number:	080630	
Tool Model:	275 Probe	
Performed:	Sat Jul 06 08:52:43 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7100	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1304-33-T	
Tool Model:	RBL-DC	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	420.797	ft

Master Calibration, performed Sat Jul 06 15:59:00 2019:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	1.363	2.200	71.921	51.195	2.136
CAL	0.001	1.486				
5'	0.012	1.378	2.200	71.921	51.019	1.592
SUM						
S1	-0.003	1.290	0.000	100.000	77.322	0.218
S2	0.007	1.353	0.000	100.000	74.247	-0.488
S3	0.007	1.313	0.000	100.000	76.559	-0.501
S4	0.006	1.339	0.000	100.000	75.036	-0.464
S5	0.007	1.328	0.000	100.000	75.693	-0.529
S6	0.006	1.338	0.000	100.000	75.080	-0.477

S7	0.006	1.286	0.000	100.000	78.091	-0.449
S8	0.009	1.329	0.000	100.000	75.710	-0.653

Air Zero Calibration, performed (Not Performed):

	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



Company	VERDAD RESOURCES
Well	TIMBRO 9-59 #8B-9-8
Field	WILDCAT
County	WELD
State	COLORADO