

Top - -28.00 ft

BOREID in 0	BOTTEMP degF 0	CASEOD in 0	CASETHCK in 0	CASEWGHT lb/ft 0	MAXAMPL mV 0	MINAMPL mV 0	MINATTN db/ft 0
PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0				

-28.00 ft - 2900.00 ft

BOREID in 7.875	BOTTEMP degF 150	CASEOD in 4.5	CASETHCK in 0	CASEWGHT lb/ft 11.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0				

2900.00 ft - 4988.80 ft

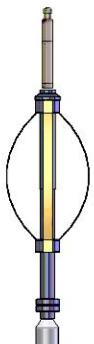
BOREID in 7.875	BOTTEMP degF 150	CASEOD in 4.5	CASETHCK in 0	CASEWGHT lb/ft 11.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0				

4988.80 ft - Bottom

BOREID in 0	BOTTEMP degF 0	CASEOD in 0	CASETHCK in 0	CASEWGHT lb/ft 0	MAXAMPL mV 0	MINAMPL mV 0	MINATTN db/ft 0
PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0				

Variable Description

BOREID : Borehole I.D.	CASEWGHT : Casing Weight	PERFS : Perforation Flag
BOTTEMP : Bottom Hole Temperature	MAXAMPL : Maximum Amplitude	PPT : Predicted Pipe Time
CASEOD : Casing O.D.	MINAMPL : Minimum Amplitude	SRFTEMP : Surface Temperature
CASETHCK : Casing Thickness	MINATTN : Minimum Attenuation	TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00

WVFS8	15.11		PROBE-RBT-DIGITAL-RBL-DC (FW1304-8.75) Probe 2 3/4" Radii Bond-Corrosion Package	2.75	100.00		
WVFS7	15.11						
WVFS6	15.11						
WVFS5	15.11						
WVFS4	15.11						
WVFS3	15.11						
WVFS2	15.11						
WVFS1	15.11						
WVFCAL	15.11						
WVF3FT	15.11						
WVF5FT	14.11						
HEADVOLT	10.92						
				Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
CCL	7.13						
GR	5.80		PROBE-GR/CCL-DIGITAL-275_6-PIN (07C4.83) Probe 2 3/4" Gamma CCL 6-pin Bottom for CNT	2.75	50.00		
			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: anadarko_warner 16-14_0512322103_20180502_scbl.db: field/well/run1/merge1
 Total length: 23.58 ft
 Total weight: 198.00 lb
 O.D.: 2.75 in



FREE PIPE SECTION

ZERO PSI APPLIED AT SURFACE

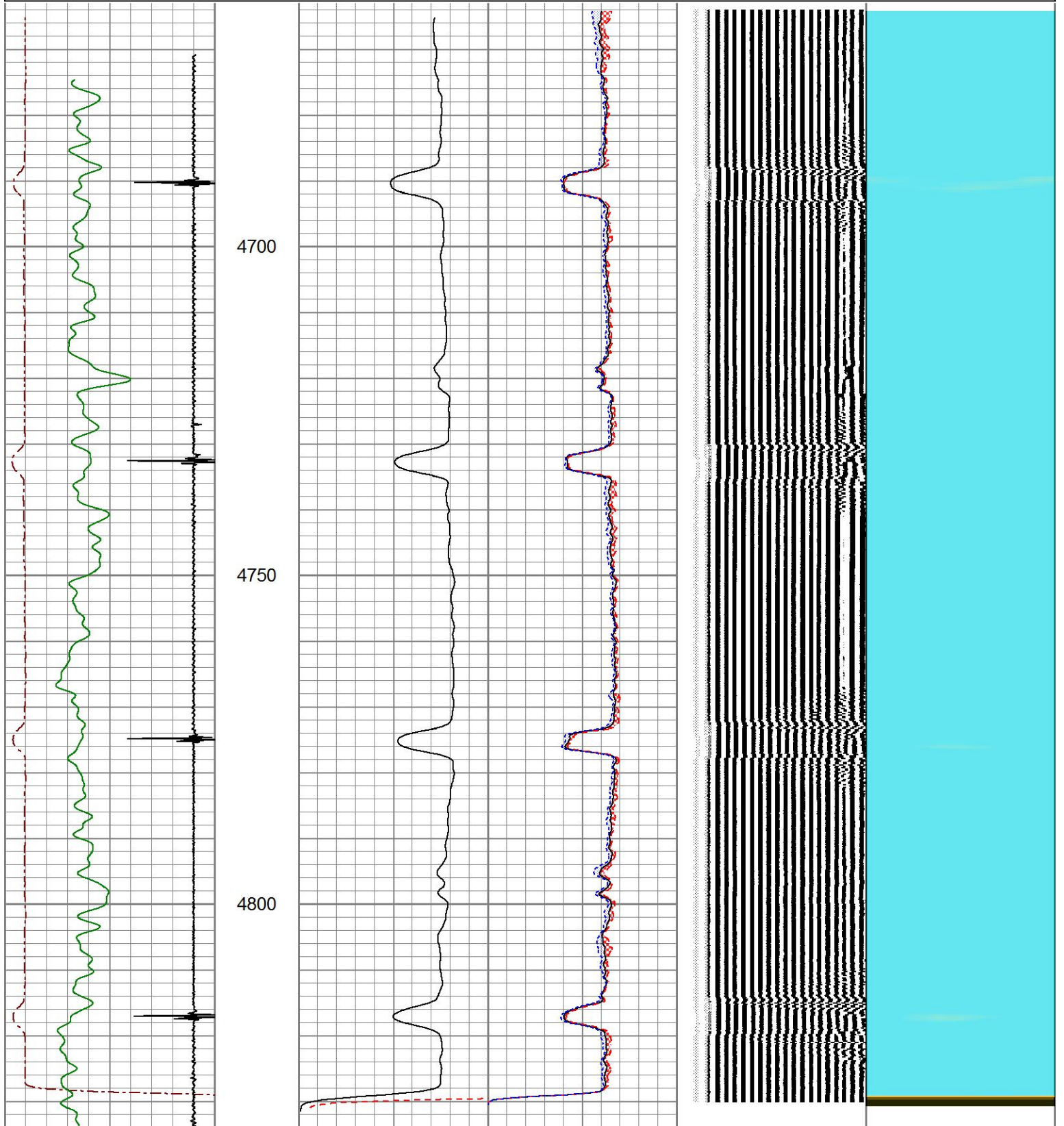
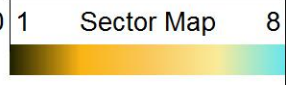
Database File: anadarko_warner 16-14_0512322103_20180502_scbl.db
 Dataset Pathname: pass9
 Presentation Format: pinr_scbl
 Dataset Creation: Wed May 02 12:04:29 2018
 Charted by: Depth in Feet scaled 1:0.10

3Ft Travel Time		
259	(usec)	149
-9	Collar Locator	1
Gamma Ray		
0	(GAPI)	130

3' Amplitude		
0	(mV)	100
3' Amplified Amplitude X 5		
0	(mV)	20

Sector Amplitude Average	
0	150
Sector Amplitude Maximum	
0	150
Sector Amplitude Minimum	
0	150

200 VDL (usec) 1200 1 Sector Map 8



3Ft Travel Time 259 (usec) 149	3' Amplitude 0 (mV) 100	Sector Amplitude Average 0 150	200 VDL (usec) 1200	1	Sector Map	8
-9 Collar Locator 1	3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Maximum 0 150				
Gamma Ray 0 (GAPI) 130		Sector Amplitude Minimum 0 150				

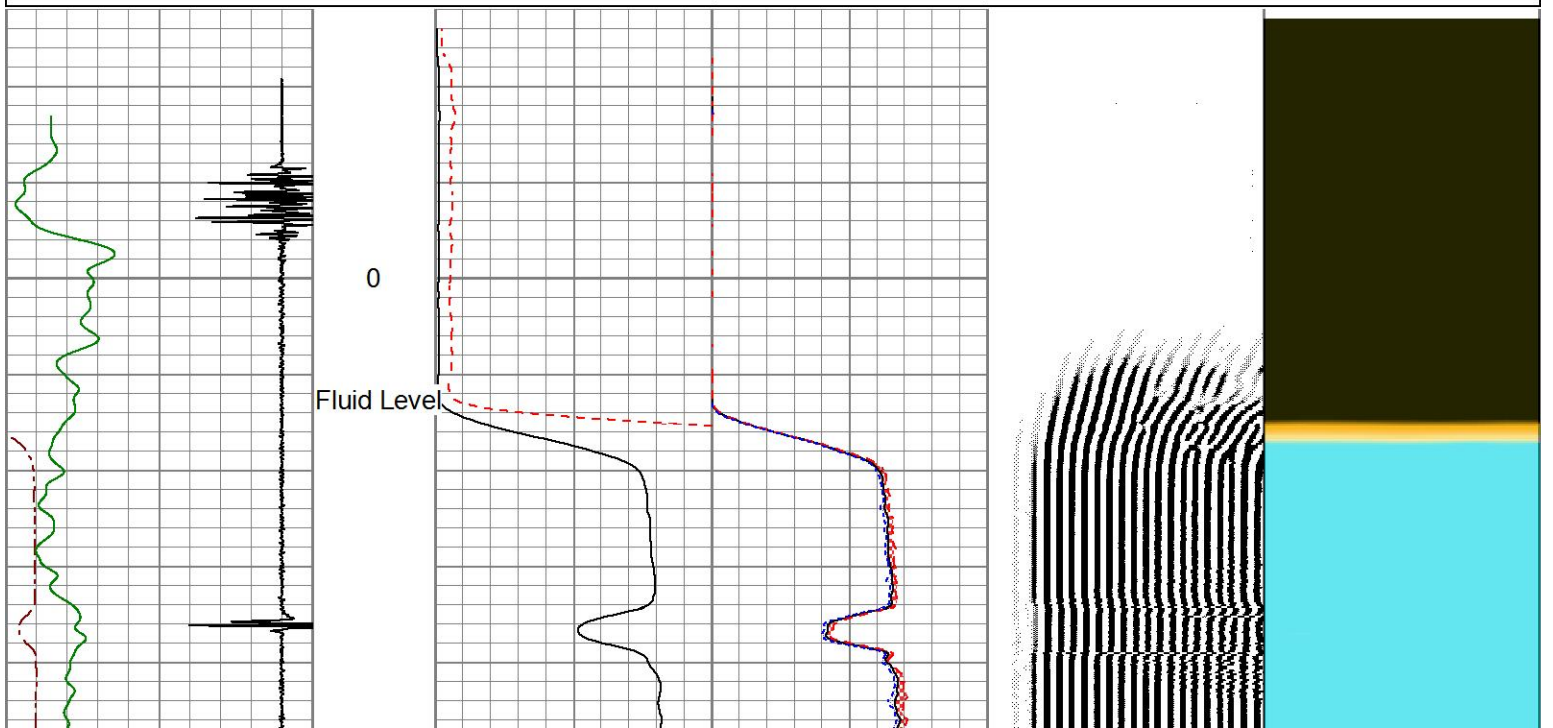


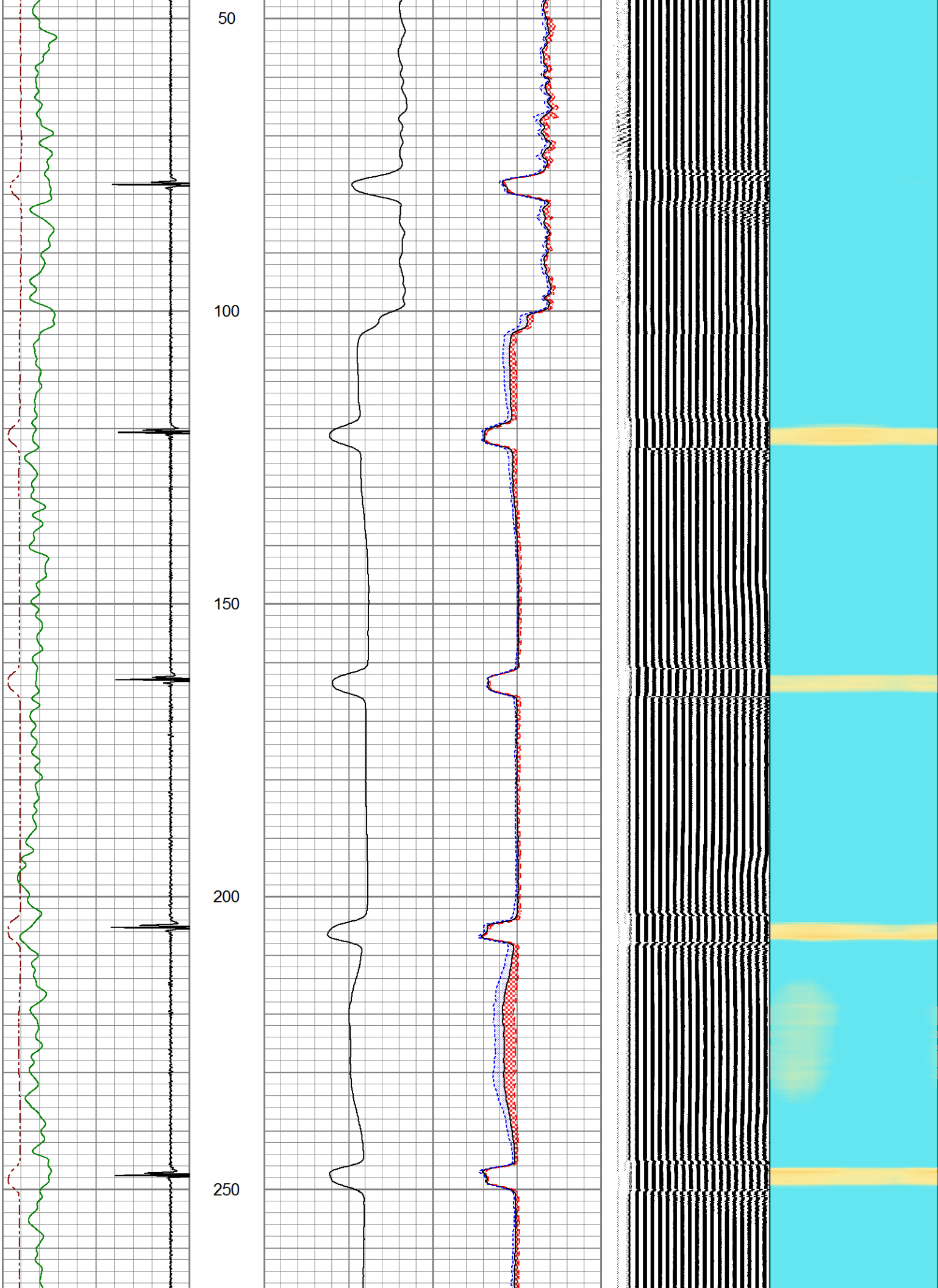
MAIN LOG

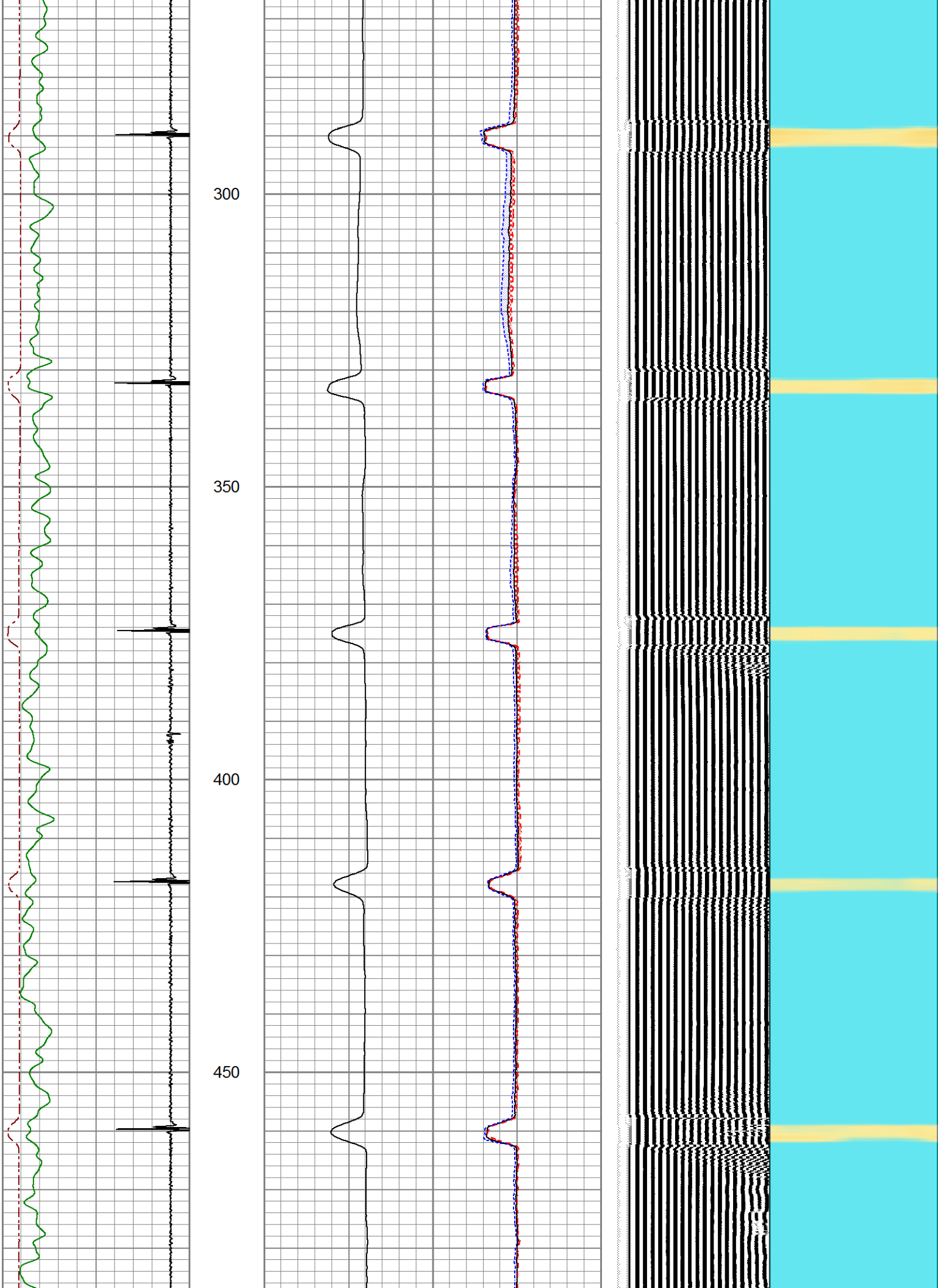
ZERO PSI APPLIED AT SURFACE

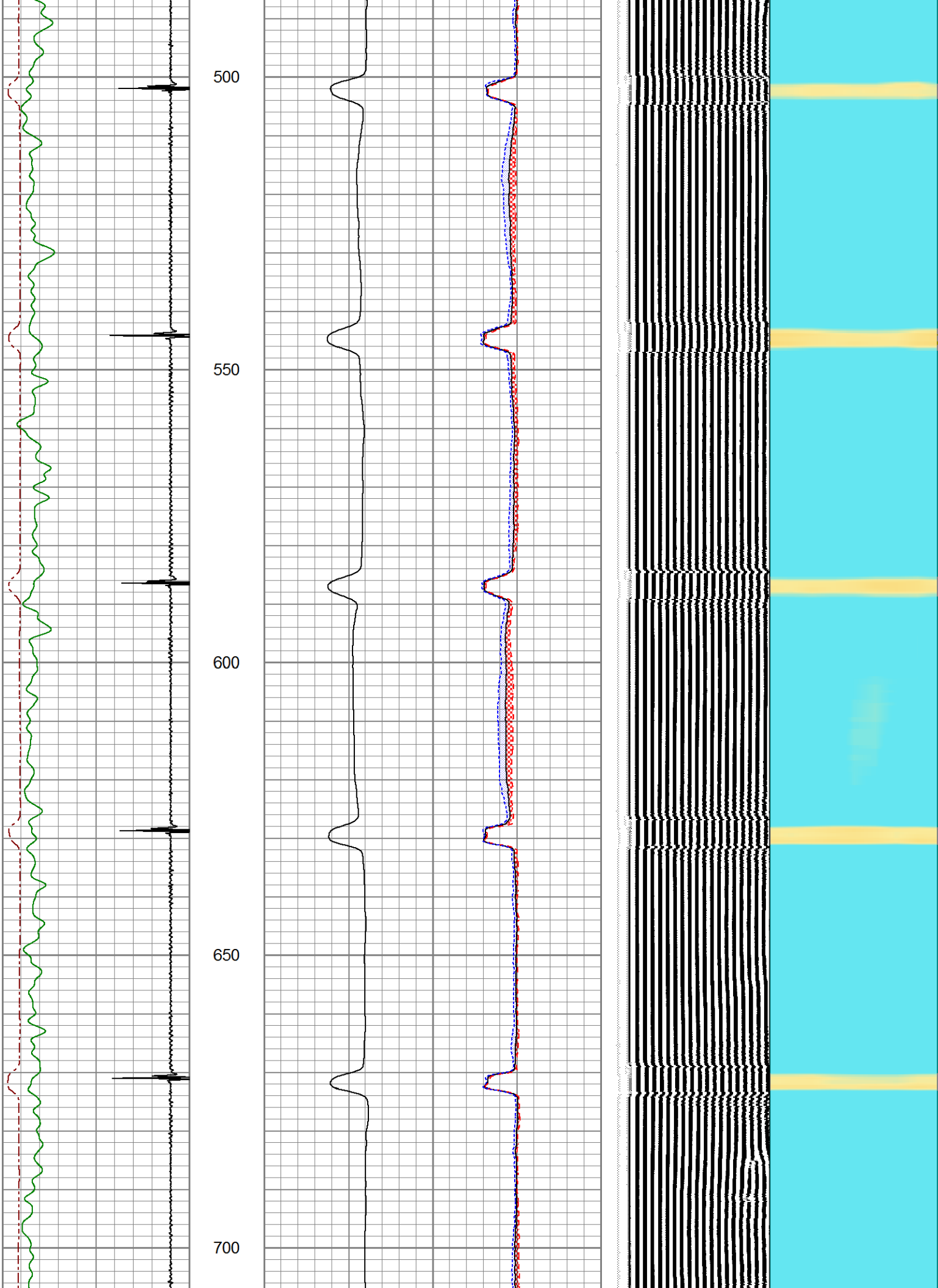
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Dataset Pathname	merge1
Presentation Format	pinr_scbl
Dataset Creation	Wed May 02 13:28:20 2018
Charted by	Depth in Feet scaled 1:240

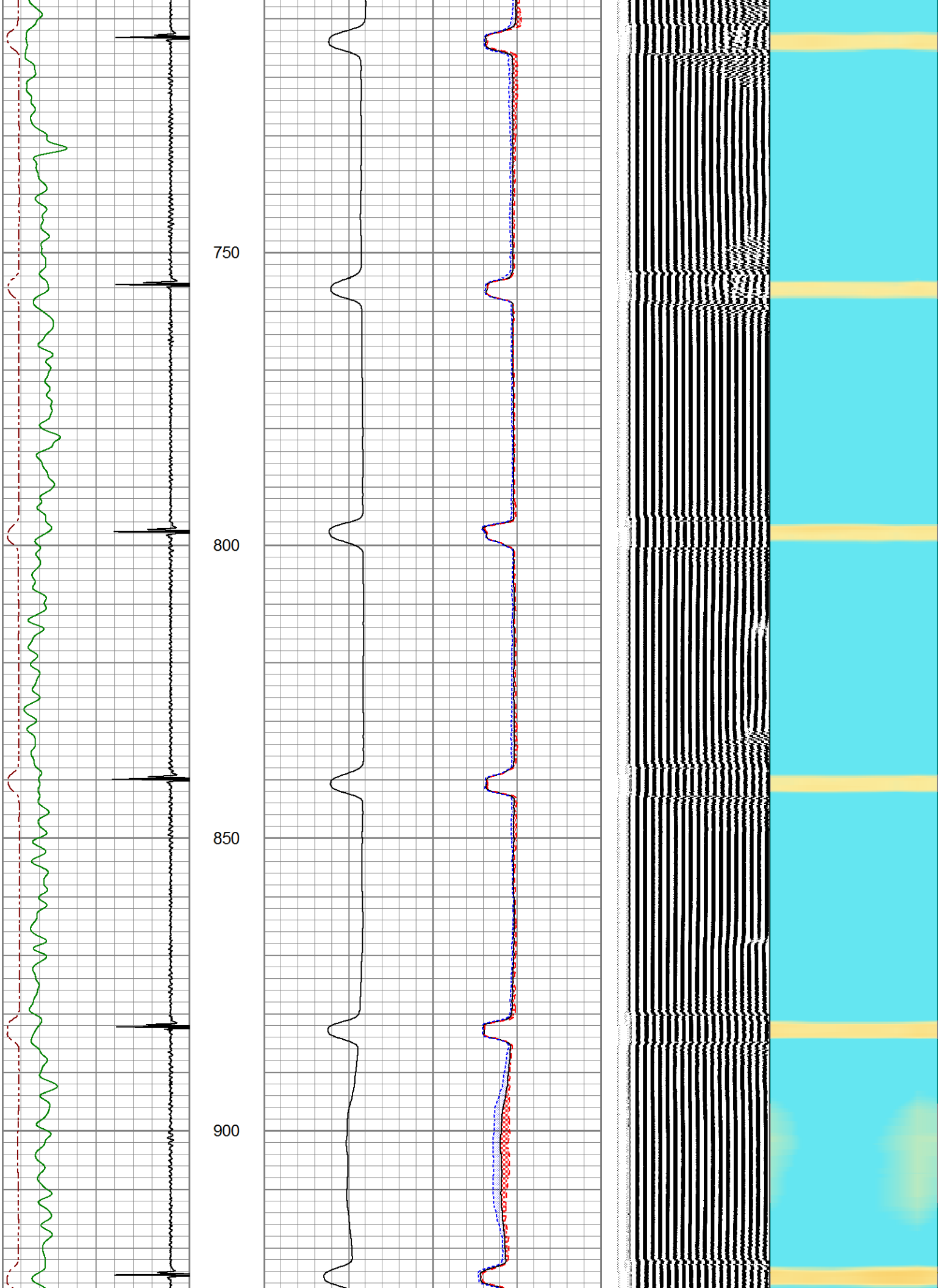
3Ft Travel Time 259 (usec) 149	3' Amplitude 0 (mV) 100	Sector Amplitude Average 0 150	200 VDL (usec) 1200	1	Sector Map	8
-9 Collar Locator 1	3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Maximum 0 150				
Gamma Ray 0 (GAPI) 130		Sector Amplitude Minimum 0 150				

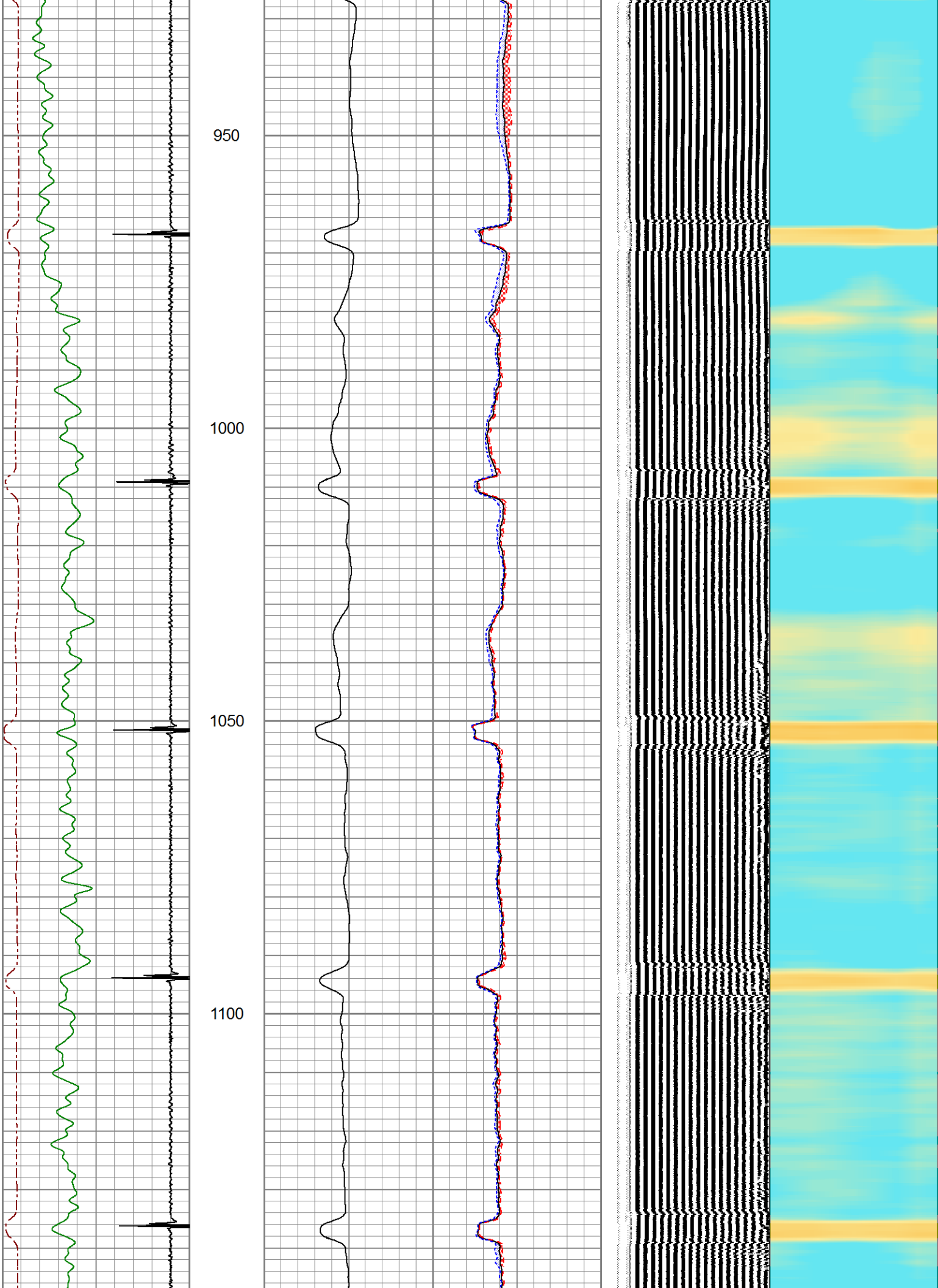


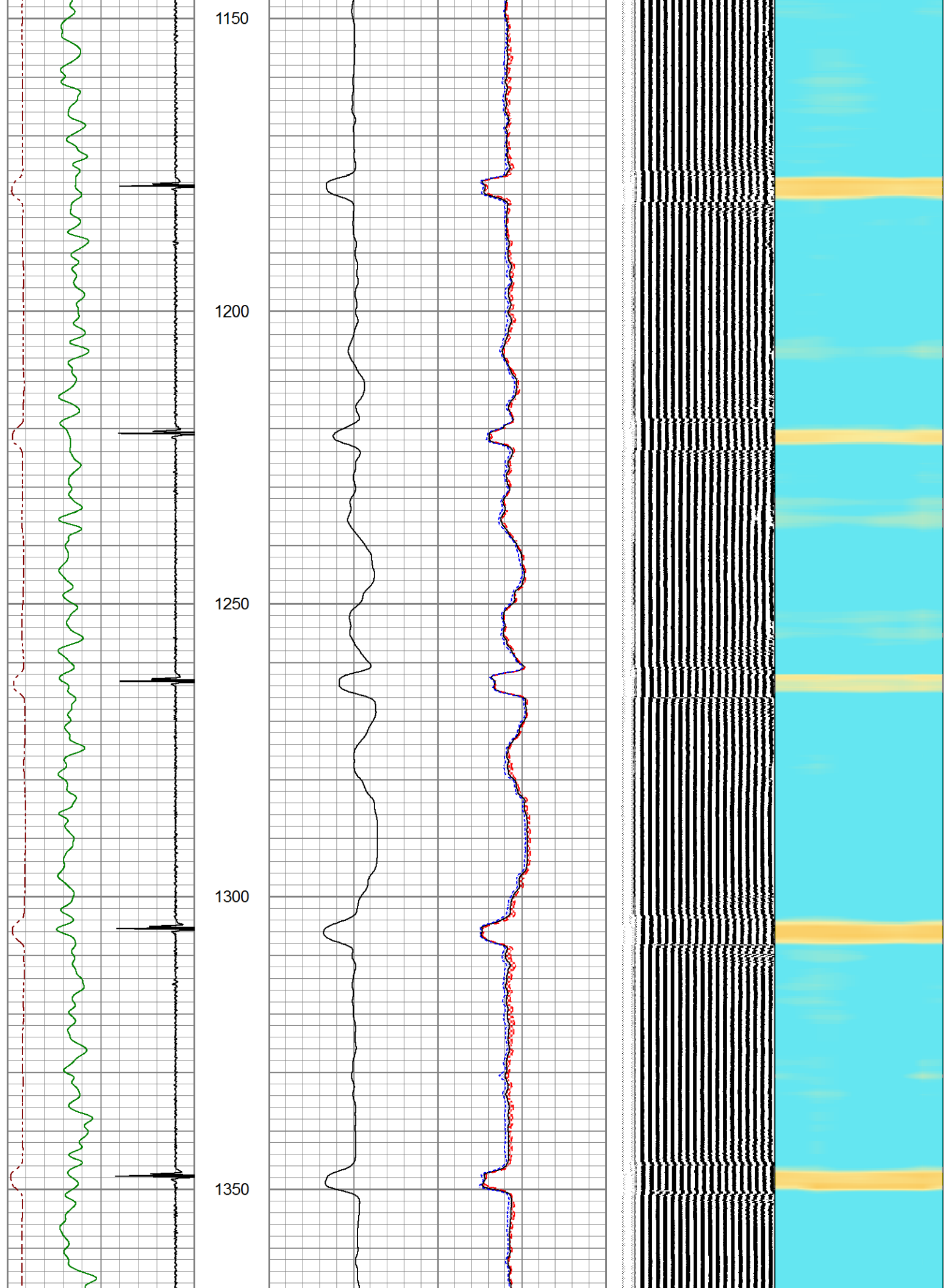


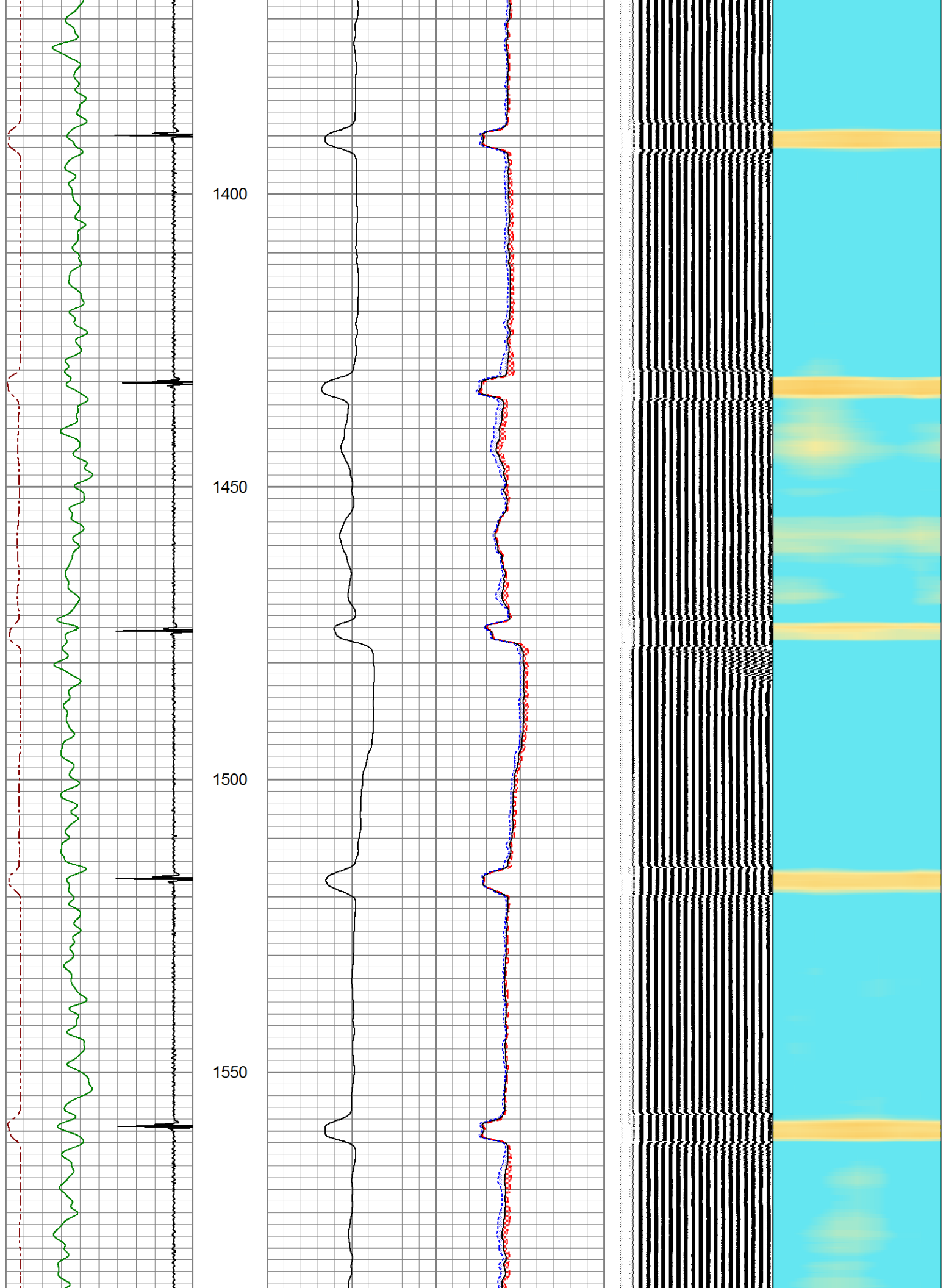


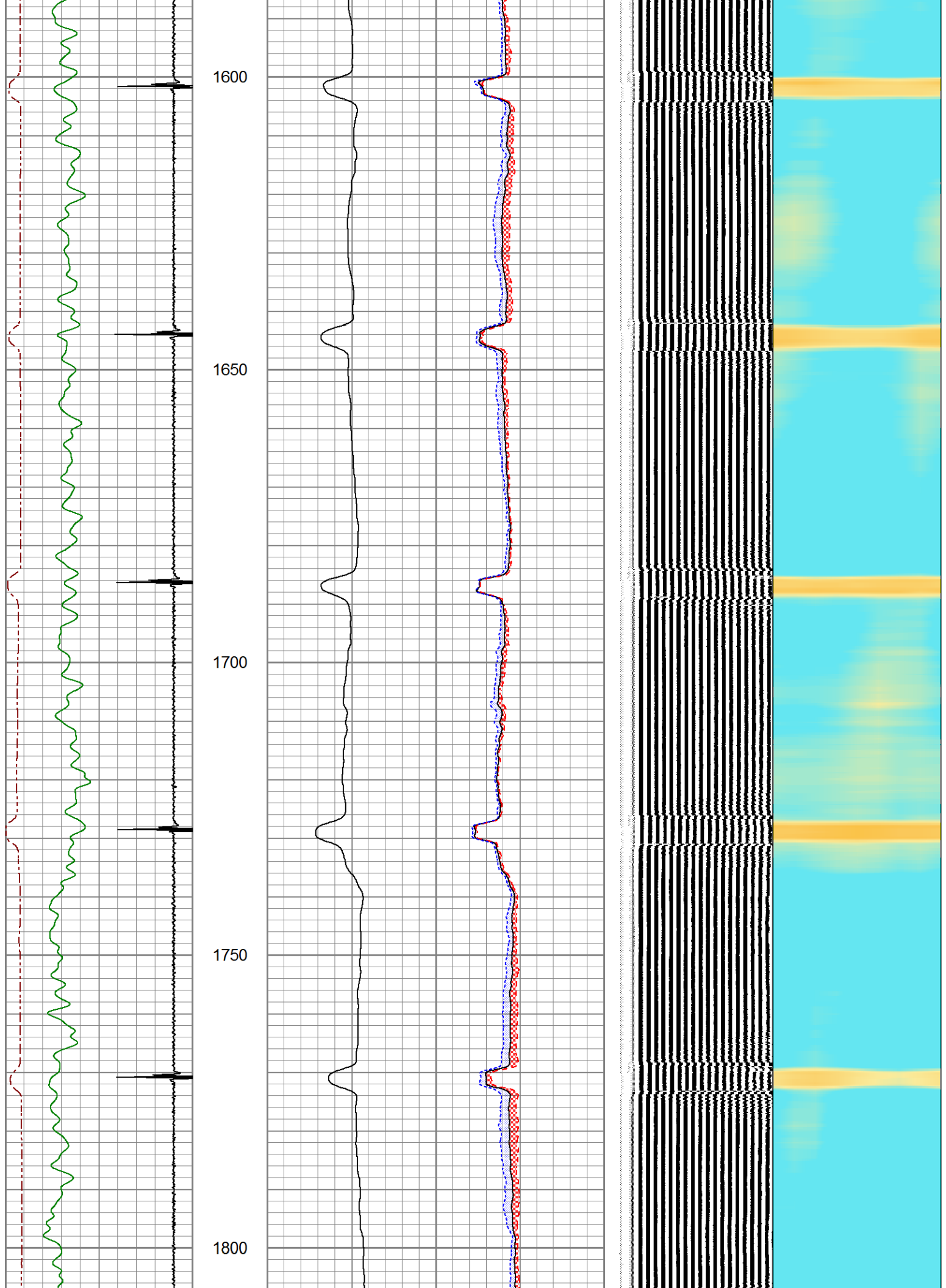


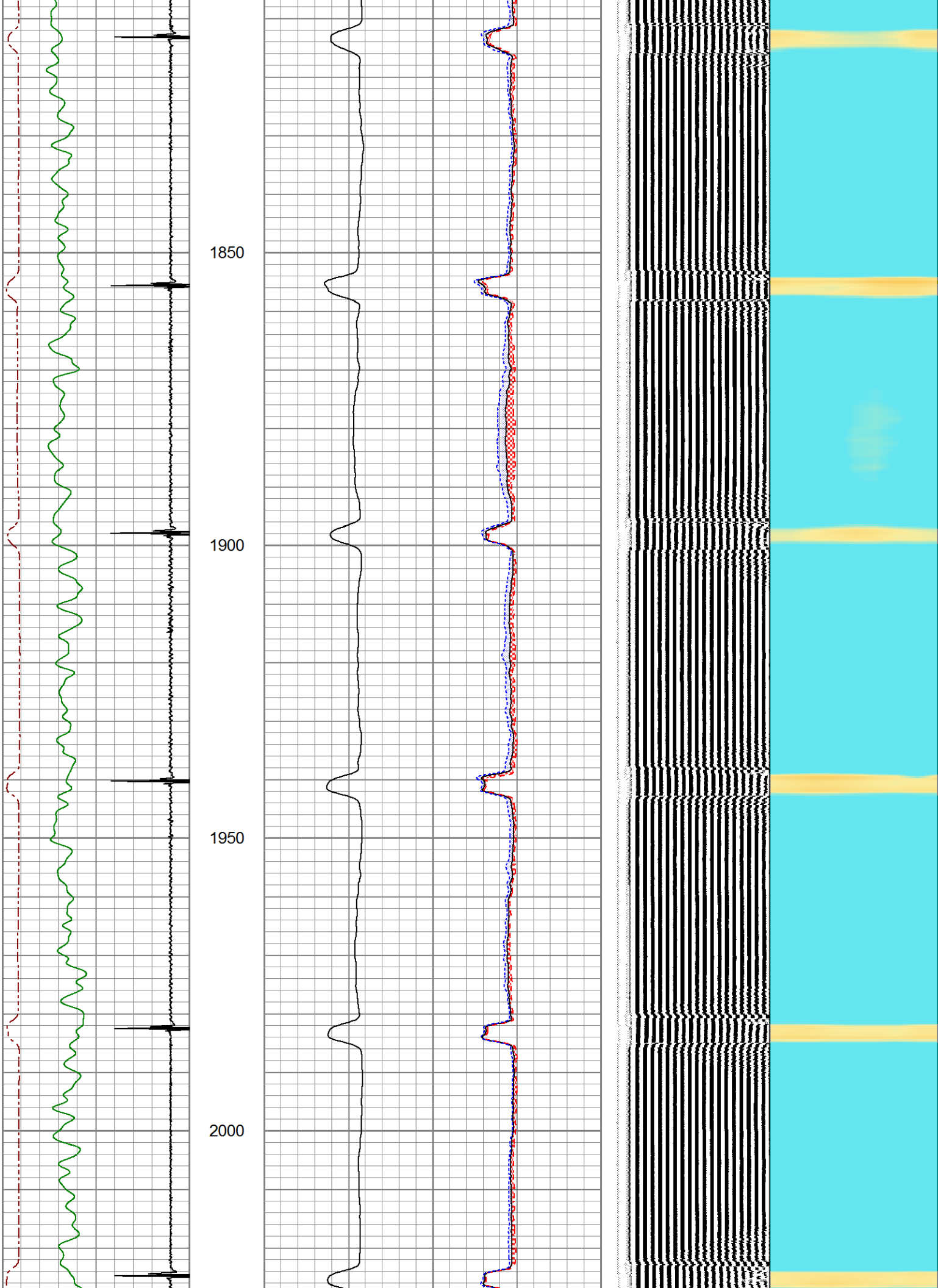


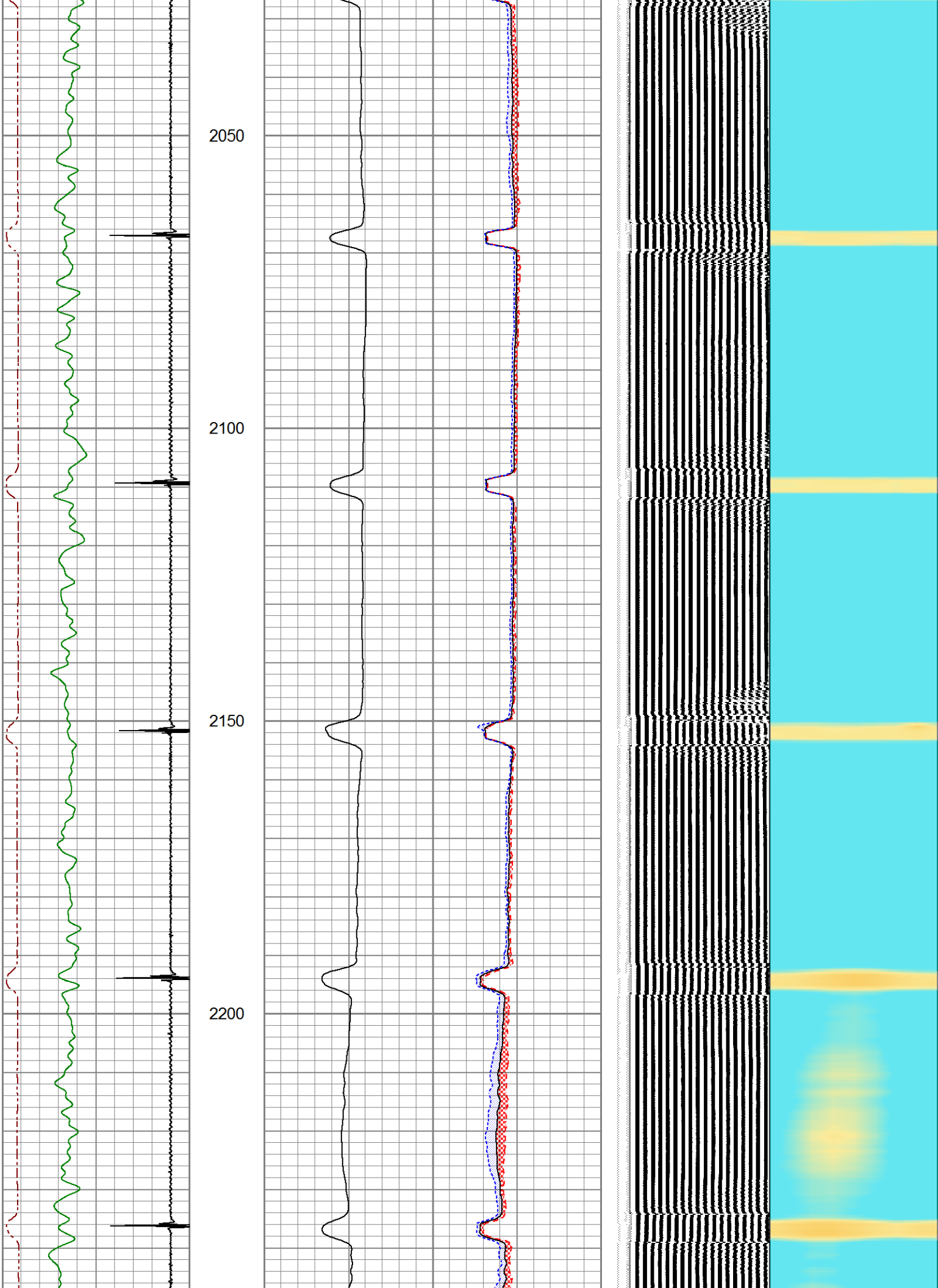












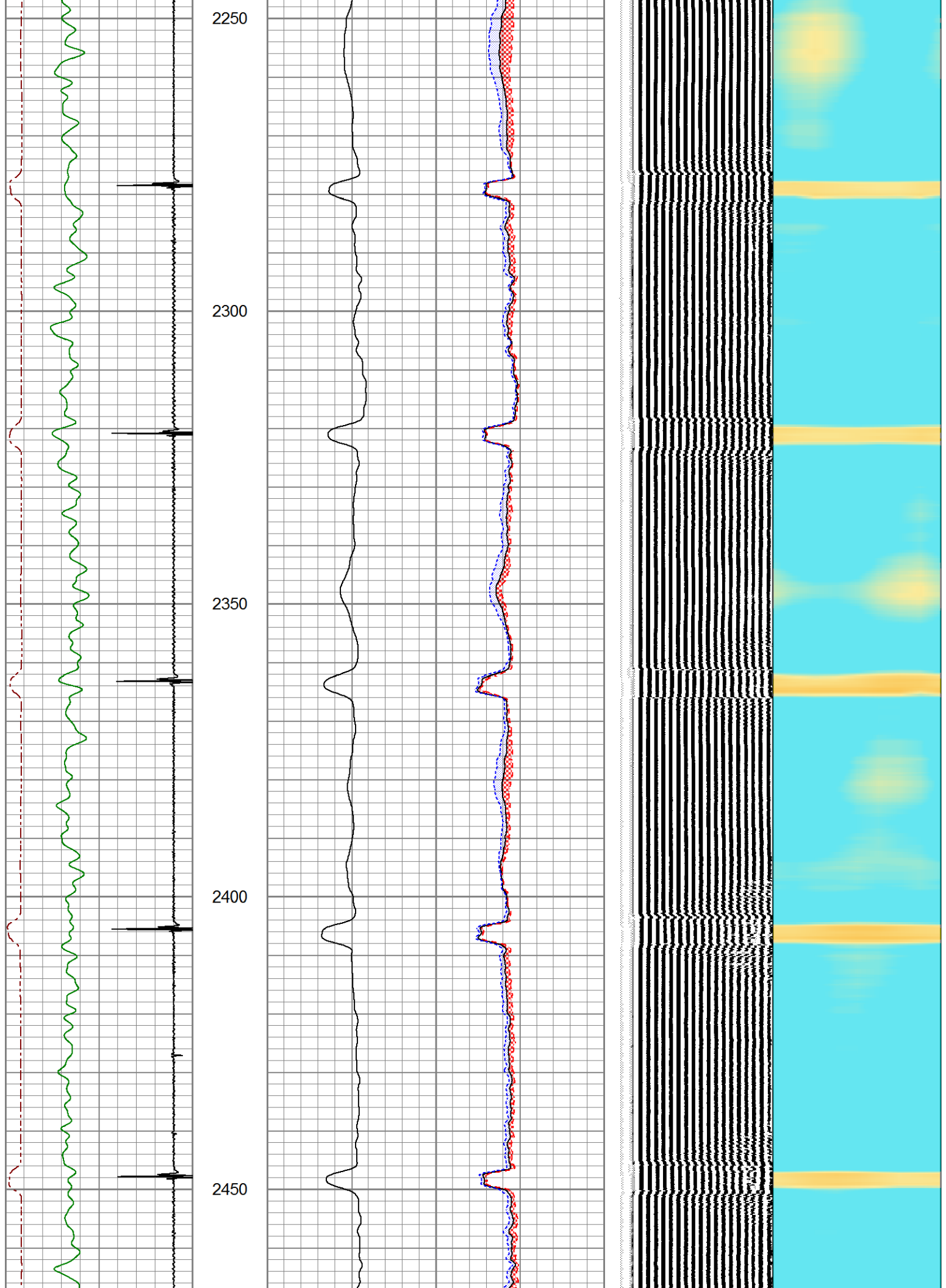
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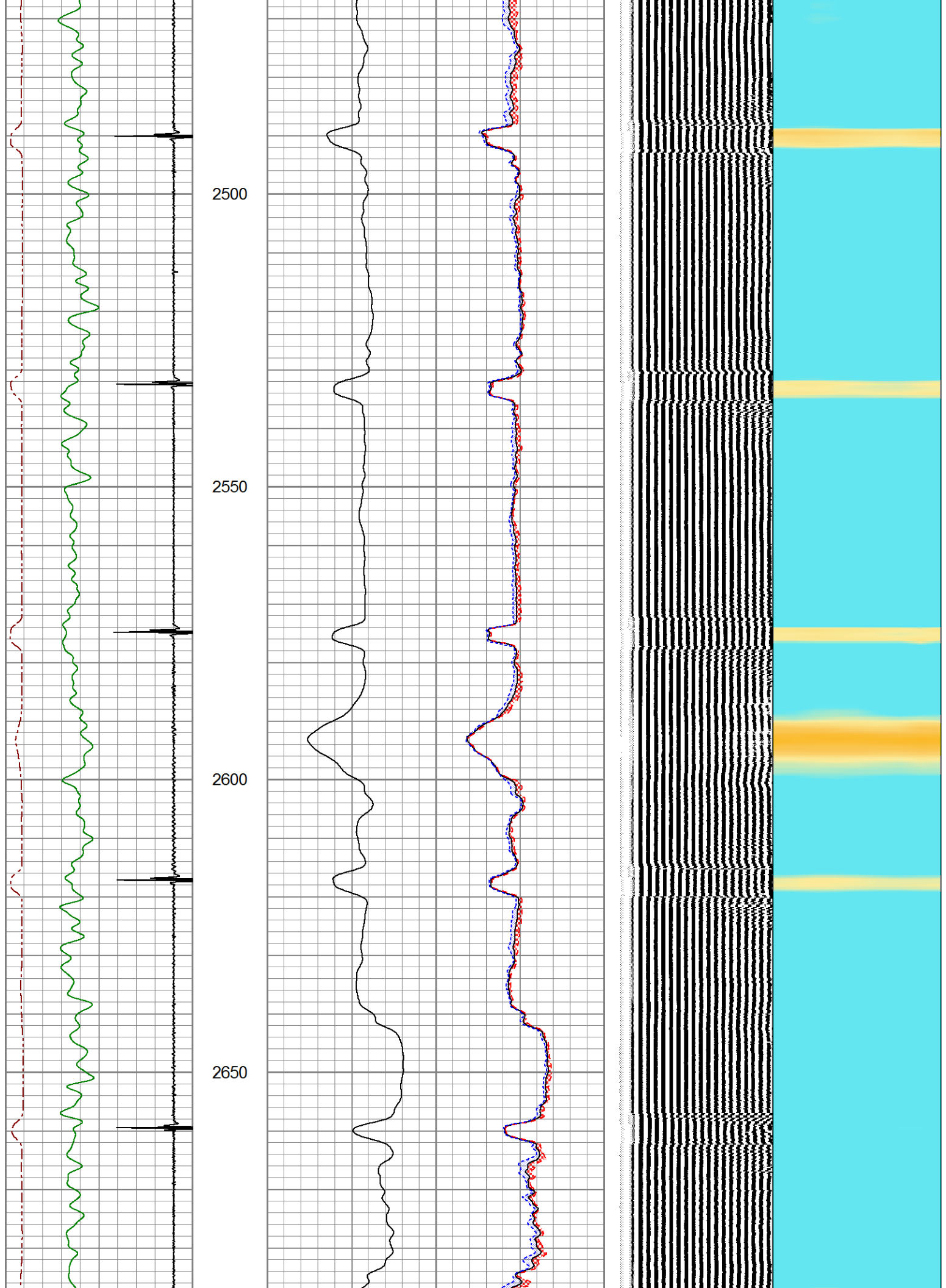
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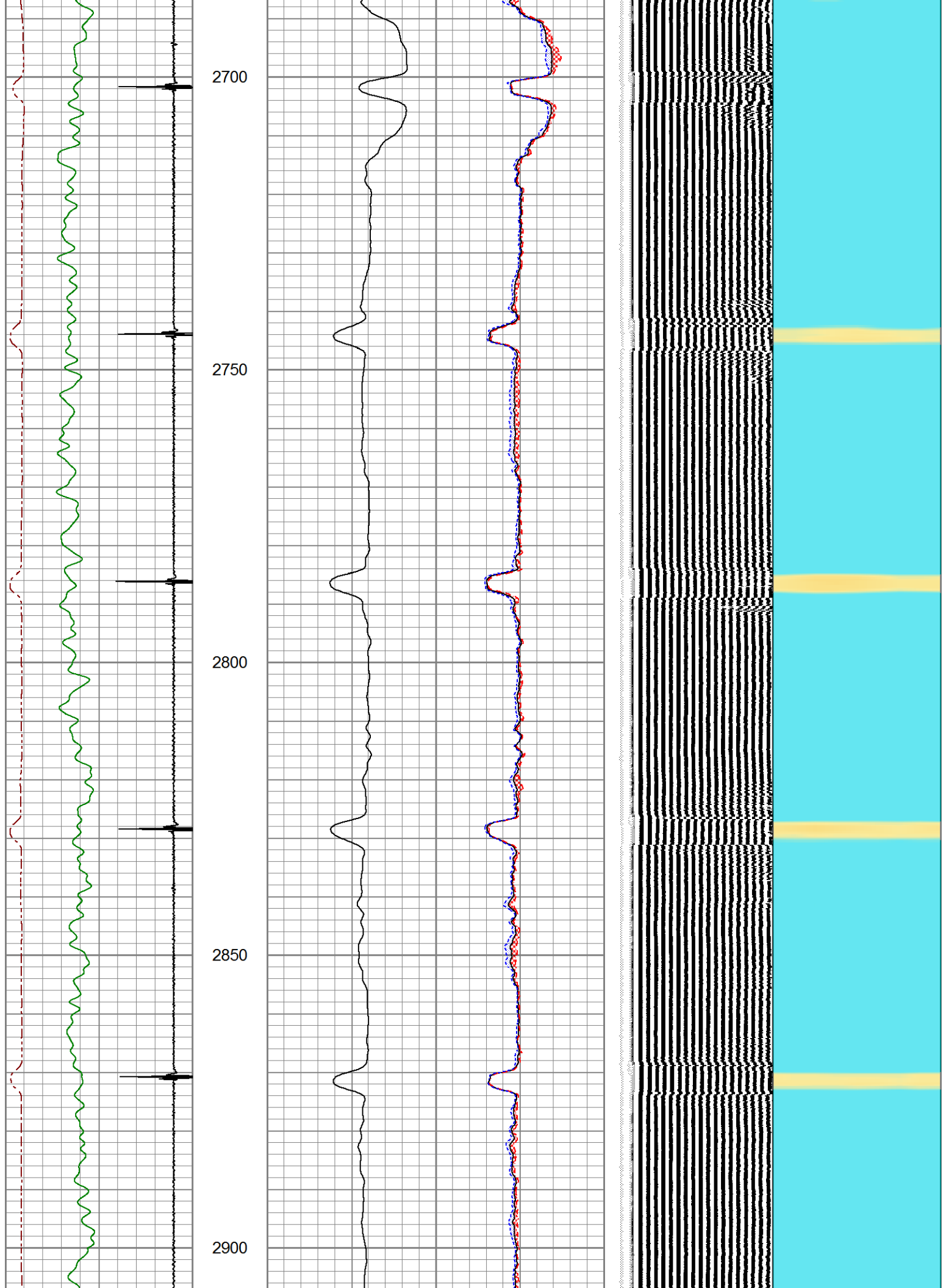
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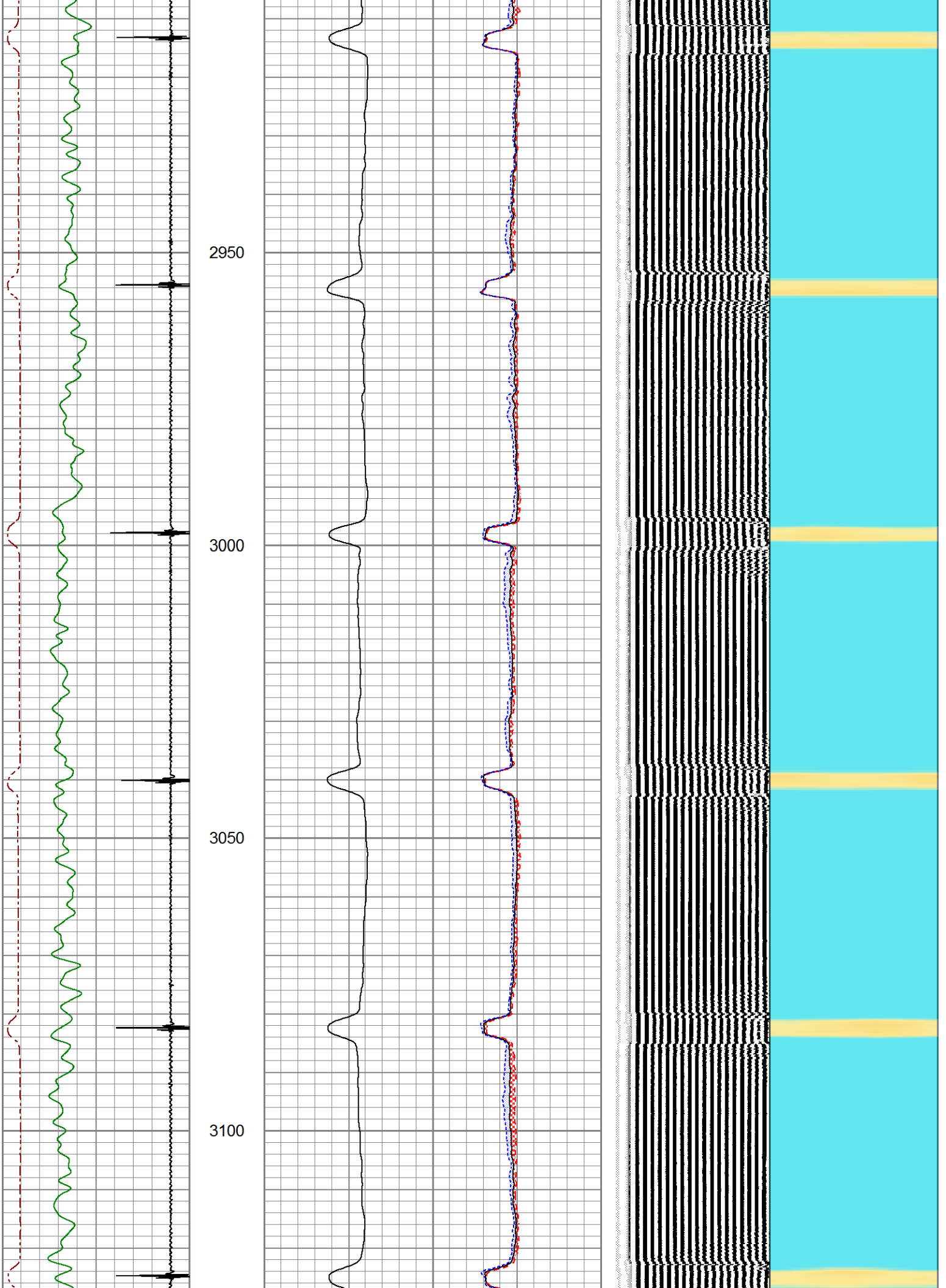
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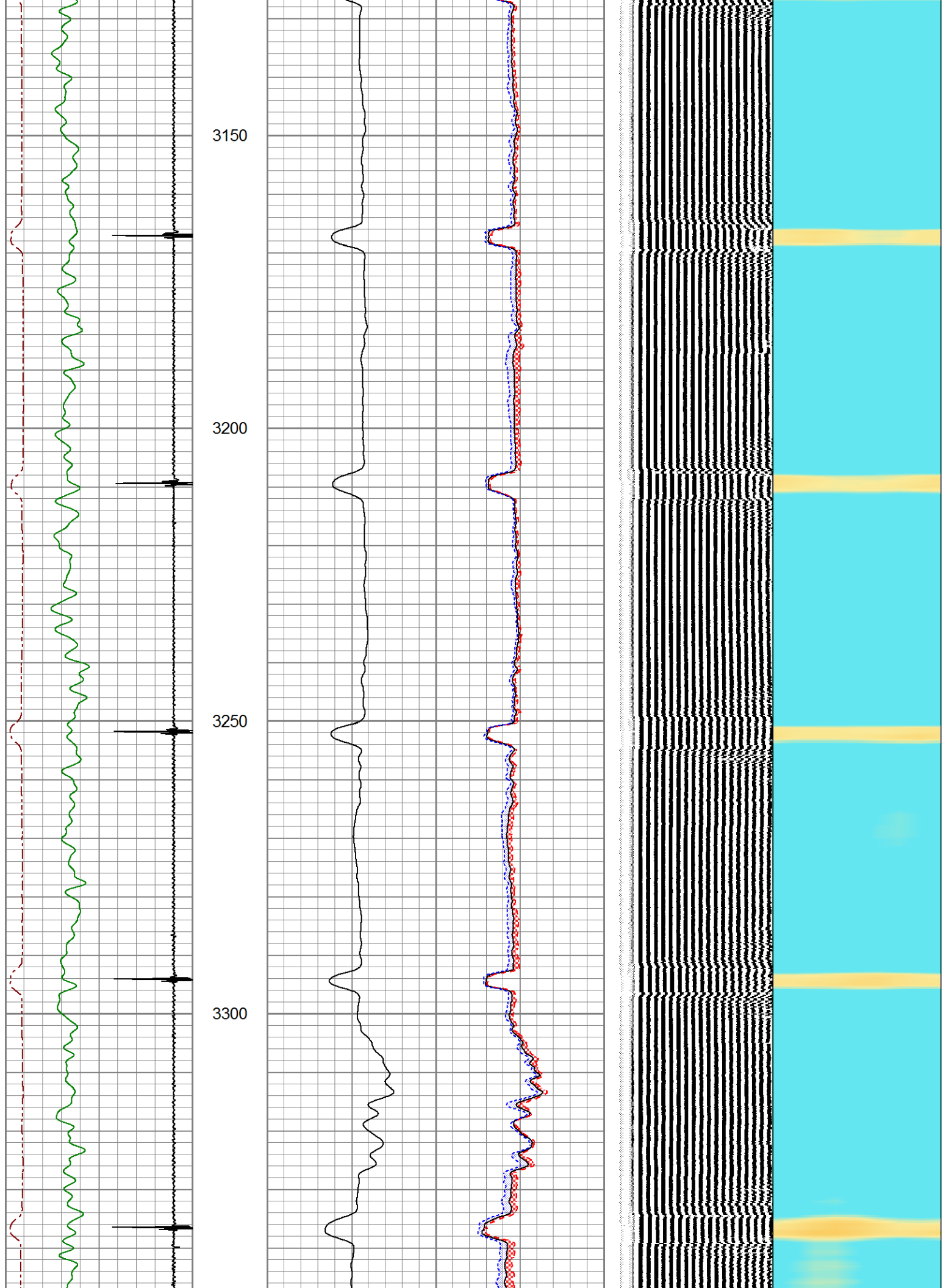
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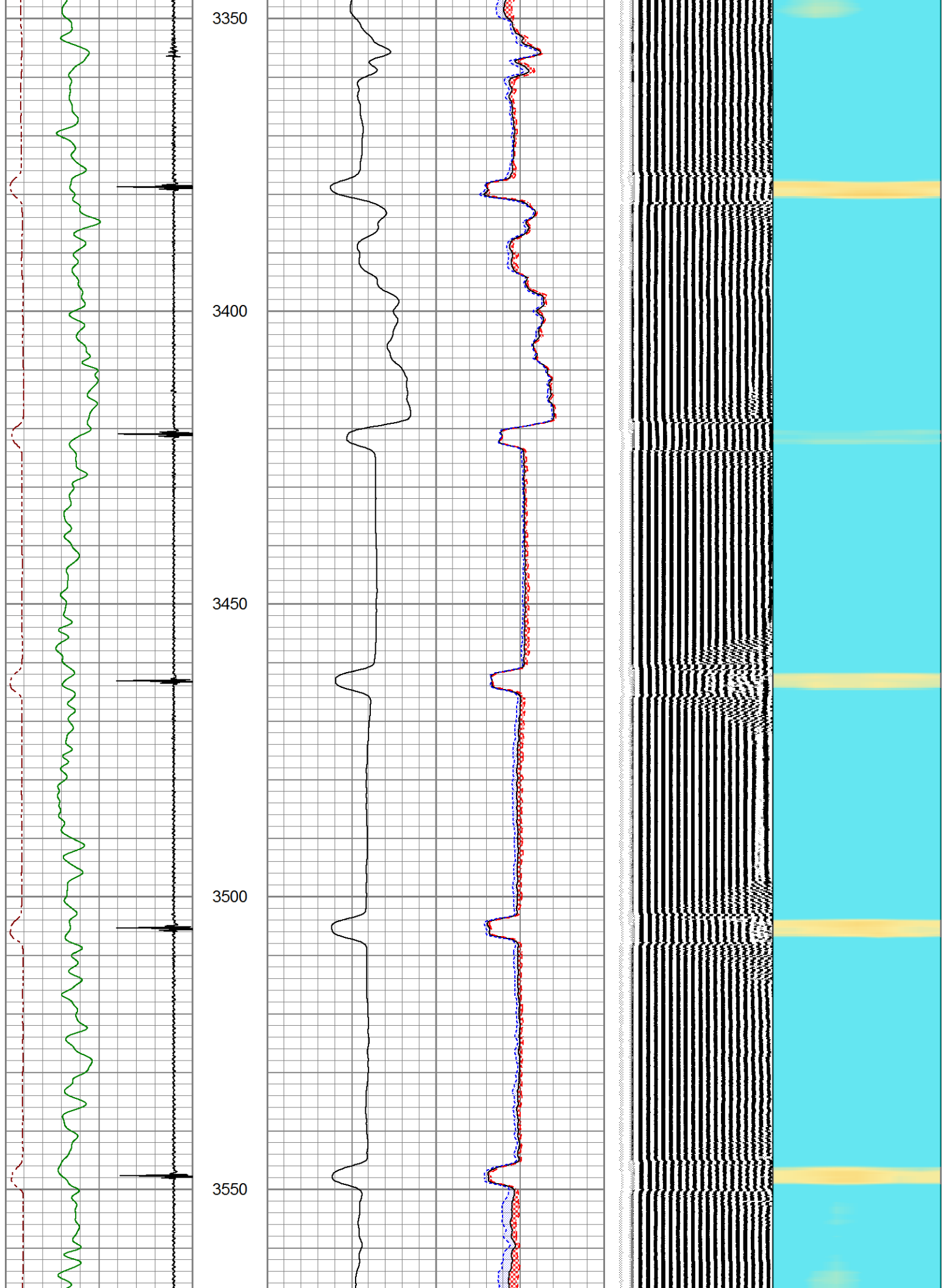


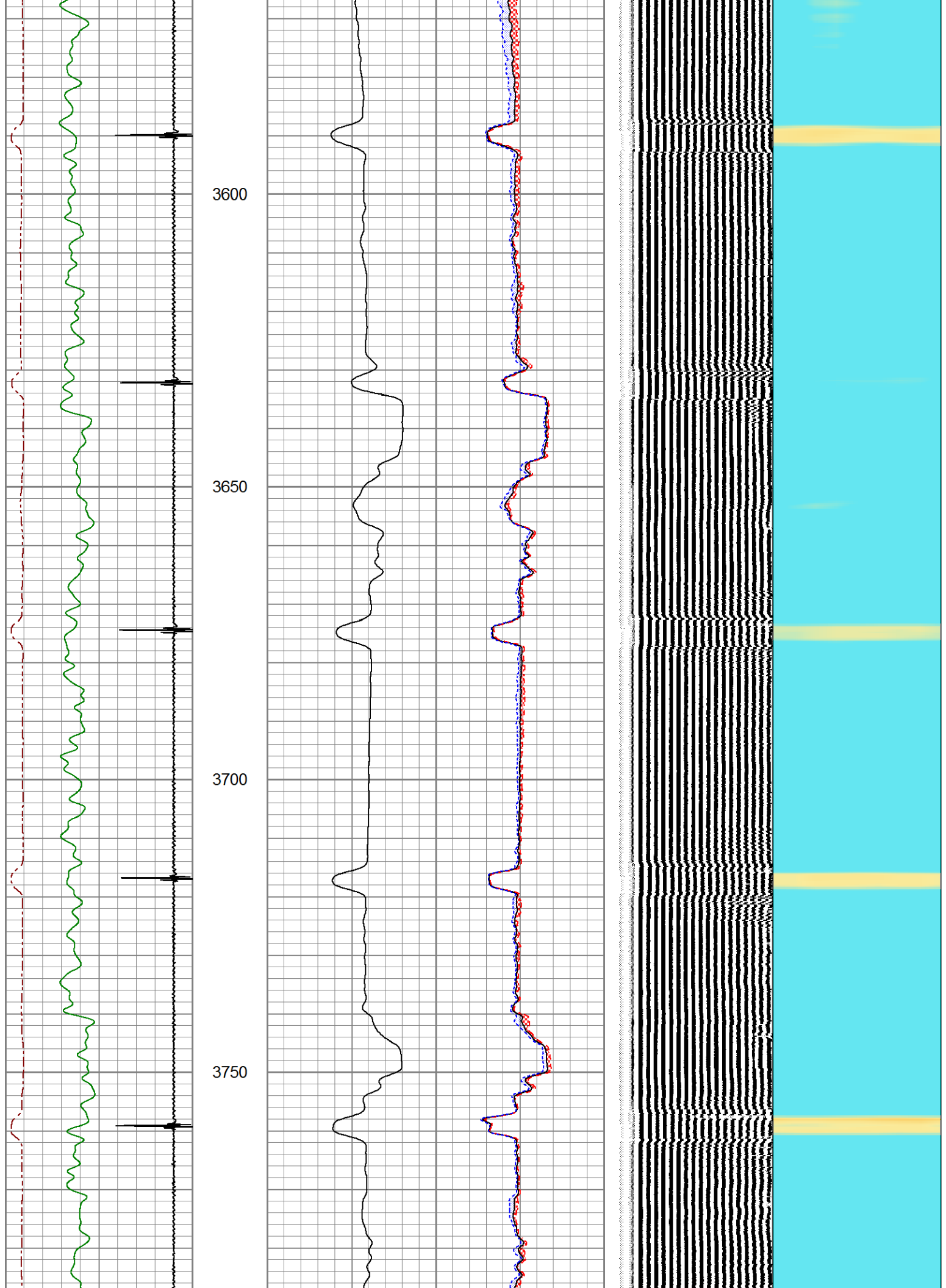


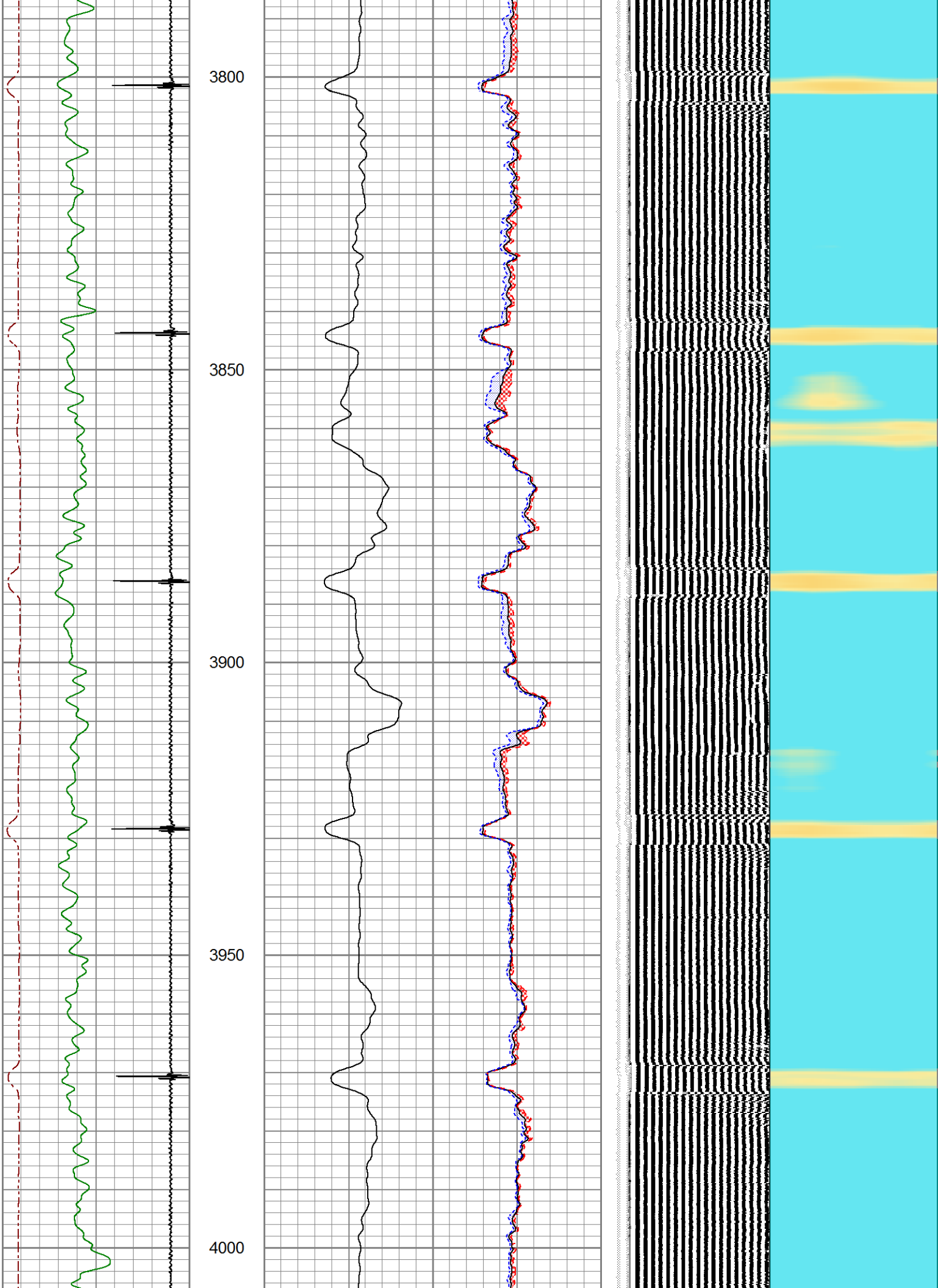


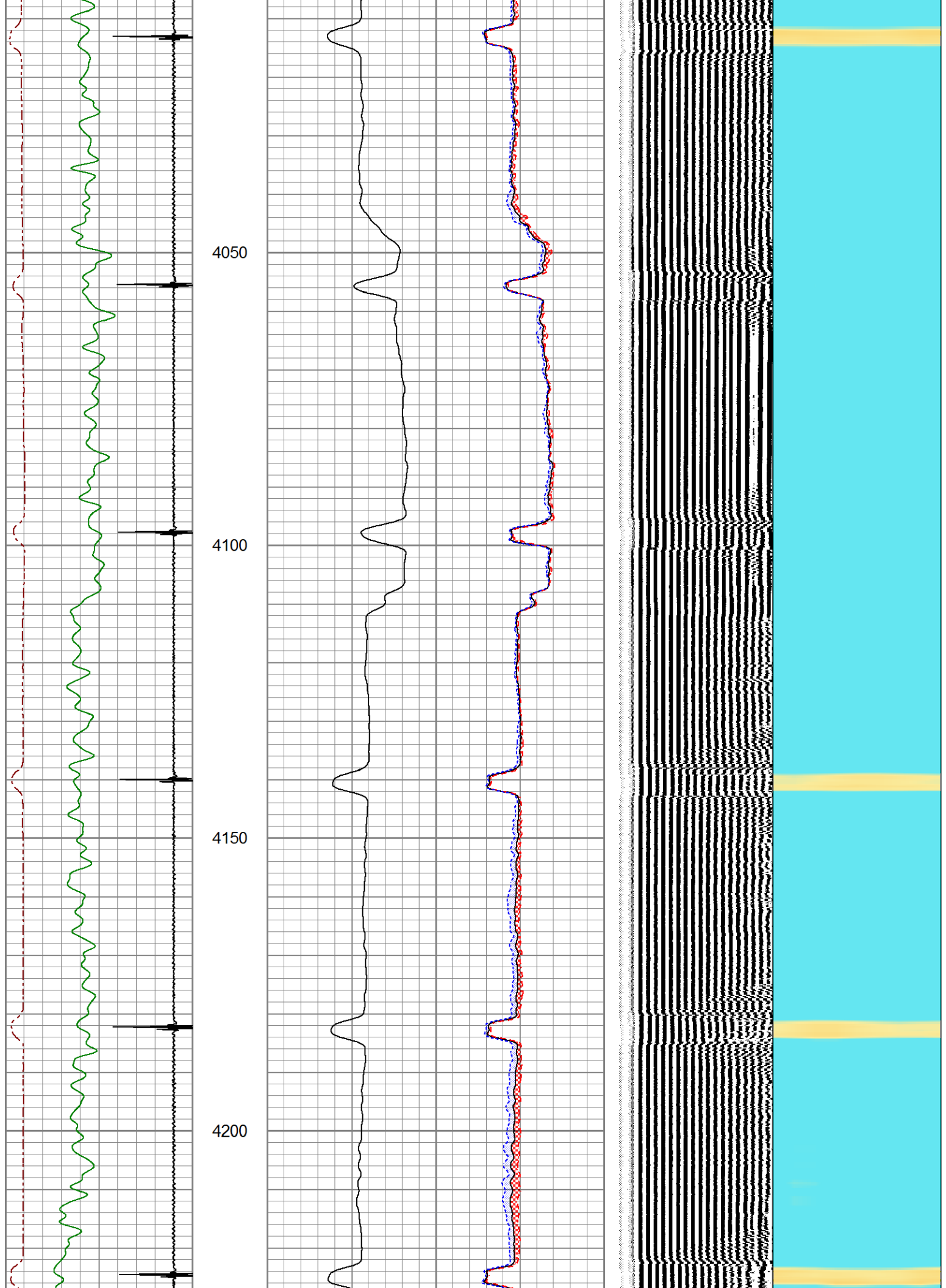


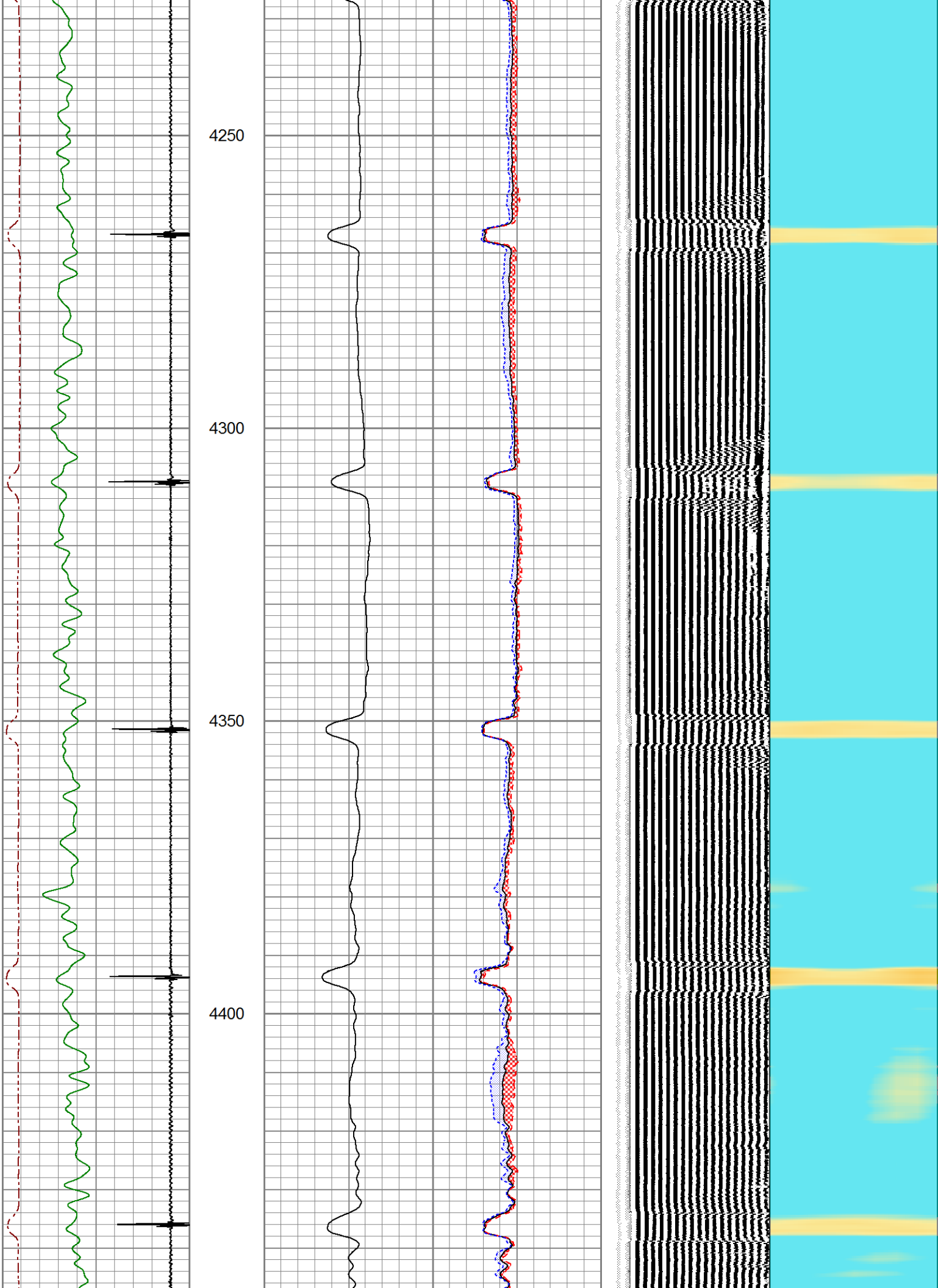












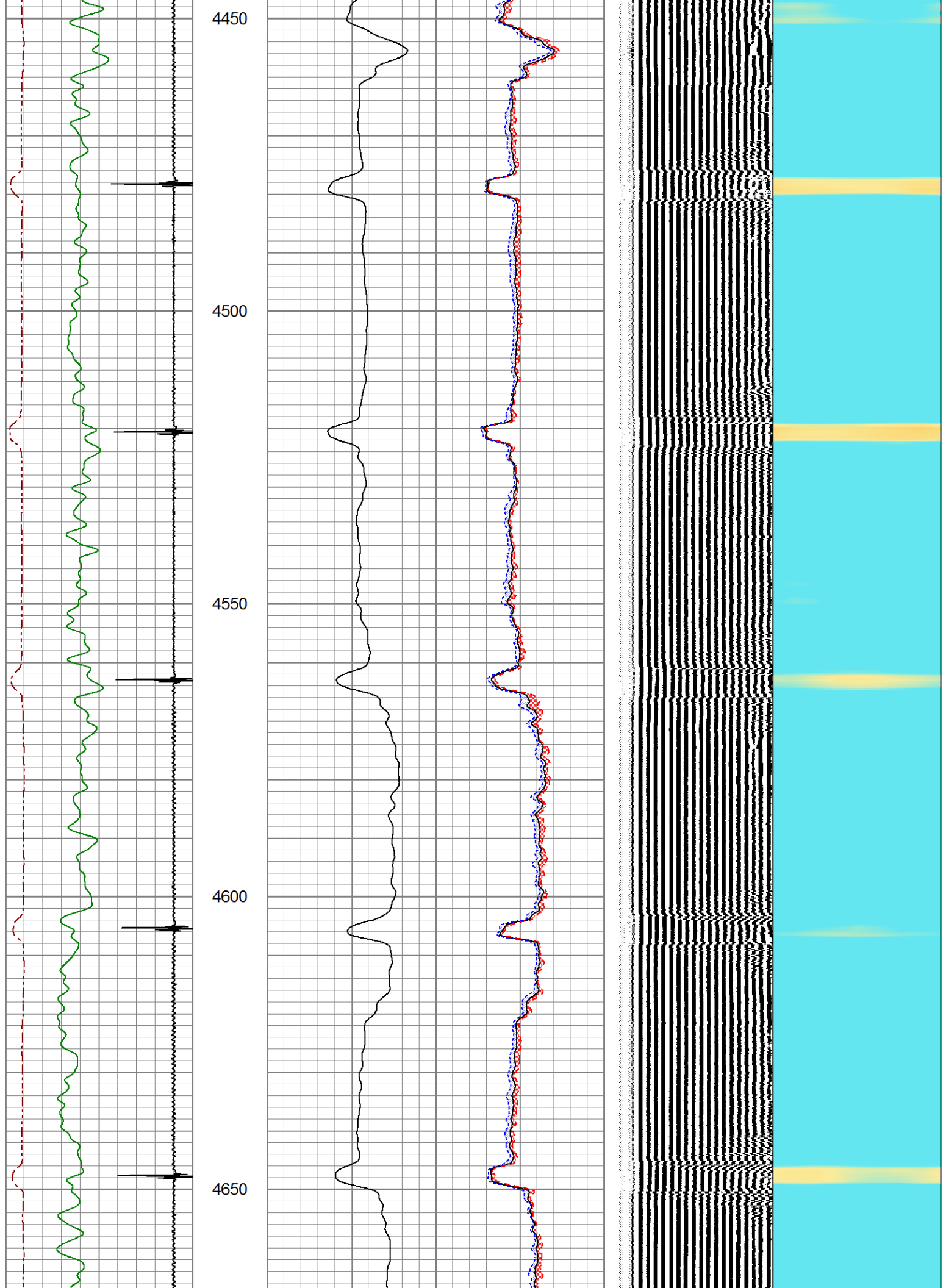
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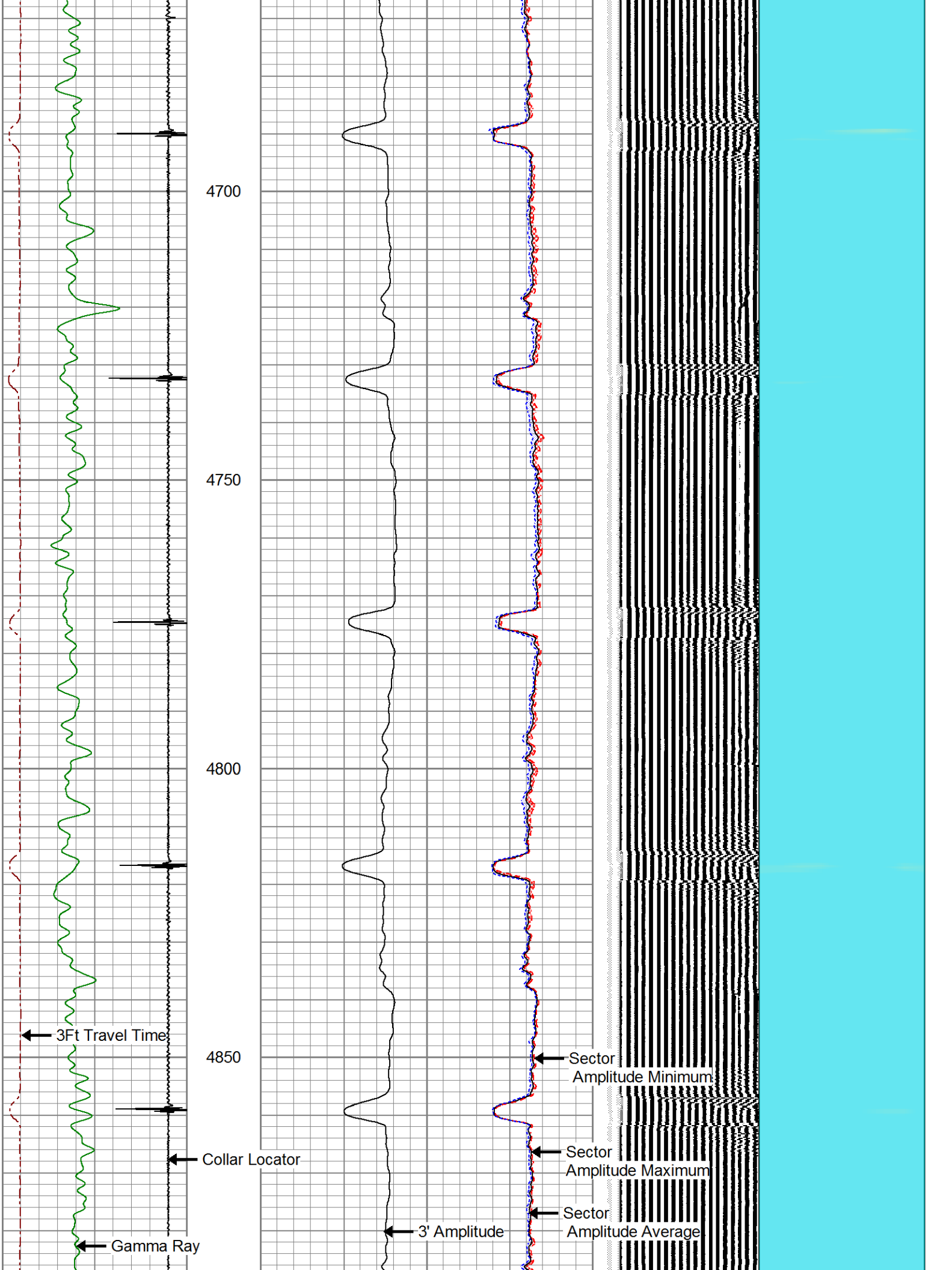
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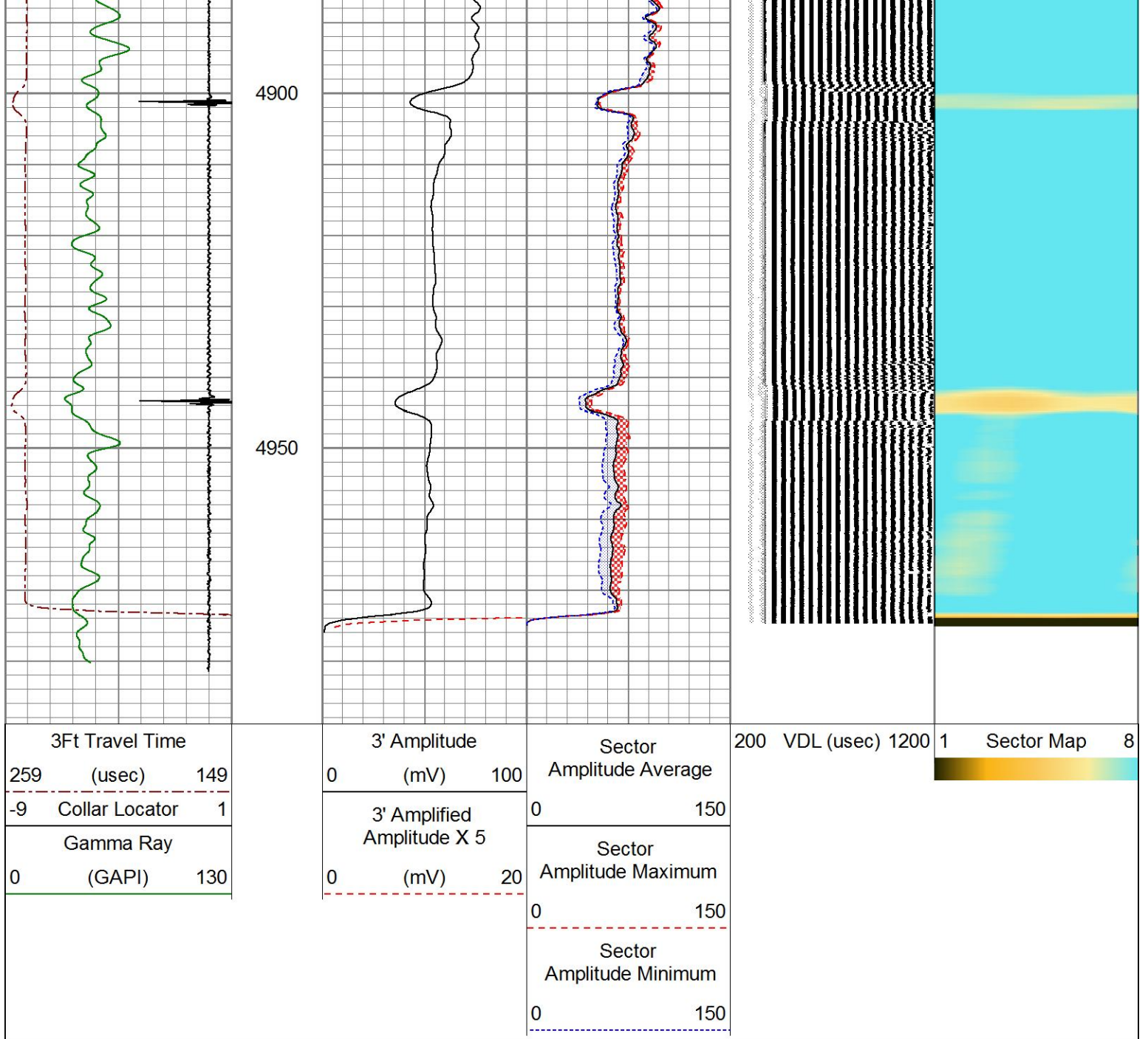
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4600

4650







Calibration Report

Database File anadarko_warner 16-14_0512322103_20180502_scbl.db
 Dataset Pathname merge1
 Dataset Creation Wed May 02 13:28:20 2018

Gamma Ray Calibration Report

Serial Number: 070237
 Tool Model: 275_6-PIN
 Performed: Fri Apr 27 14:50:42 2018

Calibrator Value: 270.0 GAPI

Background Reading: 43.8 cps
 Calibrator Reading: 414.0 cps

Sensitivity: 0.6482 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: EW1304 33

Serial Number: T W1504-55
 Tool Model: RBL-DC
 Calibration Casing Diameter: 4.500 in
 Calibration Depth: 4772.608 ft

Master Calibration, performed Wed May 02 12:03:58 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.218	1.000	81.196	65.829	1.000
CAL	0.000	1.503				
5'	0.000	1.005	1.000	81.196	79.771	1.000
SUM						
S1	0.000	1.124	0.000	100.000	88.961	0.000
S2	0.000	1.197	0.000	100.000	83.522	0.000
S3	0.000	1.184	0.000	100.000	84.425	0.000
S4	0.000	1.211	0.000	100.000	82.566	0.000
S5	0.000	1.220	0.000	100.000	81.957	0.000
S6	0.000	1.228	0.000	100.000	81.444	0.000
S7	0.000	1.131	0.000	100.000	88.423	0.000
S8	0.000	1.188	0.000	100.000	84.162	0.000

Air Zero Calibration, performed Fri Apr 27 14:35:04 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



Company ANADARKO PETROLEUM CORP.
 Well WARNER 16-14
 Field WATTENBERG
 County WELD
 State COLORADO