

RADIAL CEMENT BOND LOG

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Comments

BOND INDEX CALCULATED FOR 3000 PSI COMPRESSIVE STRENGTH CEMENT

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES.
YOUR CREW TODAY WAS:
A.NICCOLI, R.MATHE, C.COOPER, J.SCHMIDT

Service Ticket No.	905846292	API No.	051234991200	PGM Ver	WARRIOR 8
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
RCBL		GAMMA CCL			
Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	11577056	Serial No.	11021927	Serial No.	
Model No.	PROBE	Model No.	PROBE	Model No.	
Diameter	2.75	Diameter	2.75	Diameter	
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

ONE	KOP	1500'	0 PSI	80	MINIMAL FREE PIPE			
	GAMMA RAY		AMPLITUDE		VDL		RADIAL MAP	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	100	0	100	200	1200	1	8
DIRECTIONAL INFORMATION								
Maximum Deviation		90	deg. @		KOP	8600'		

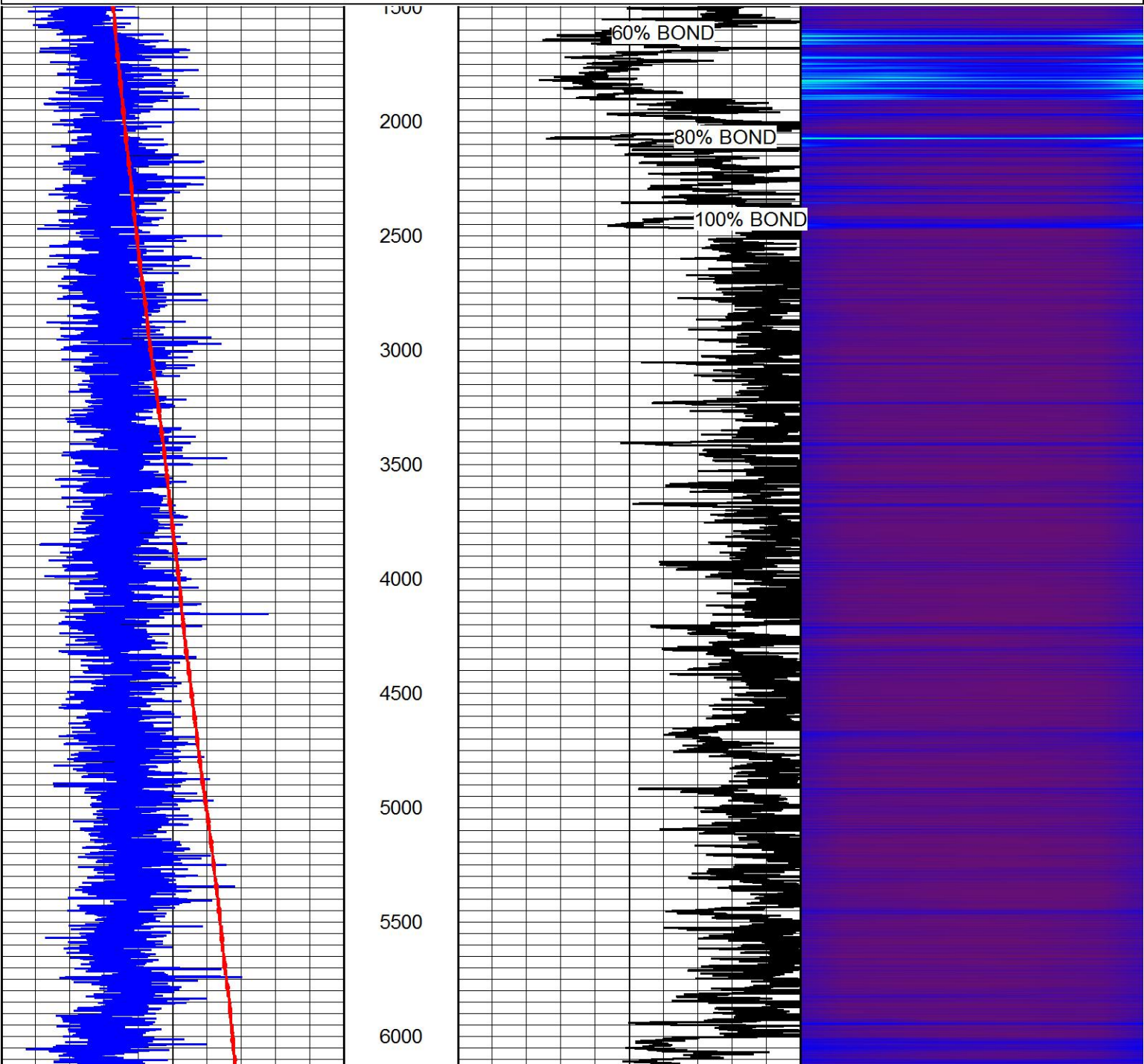
HALLIBURTON

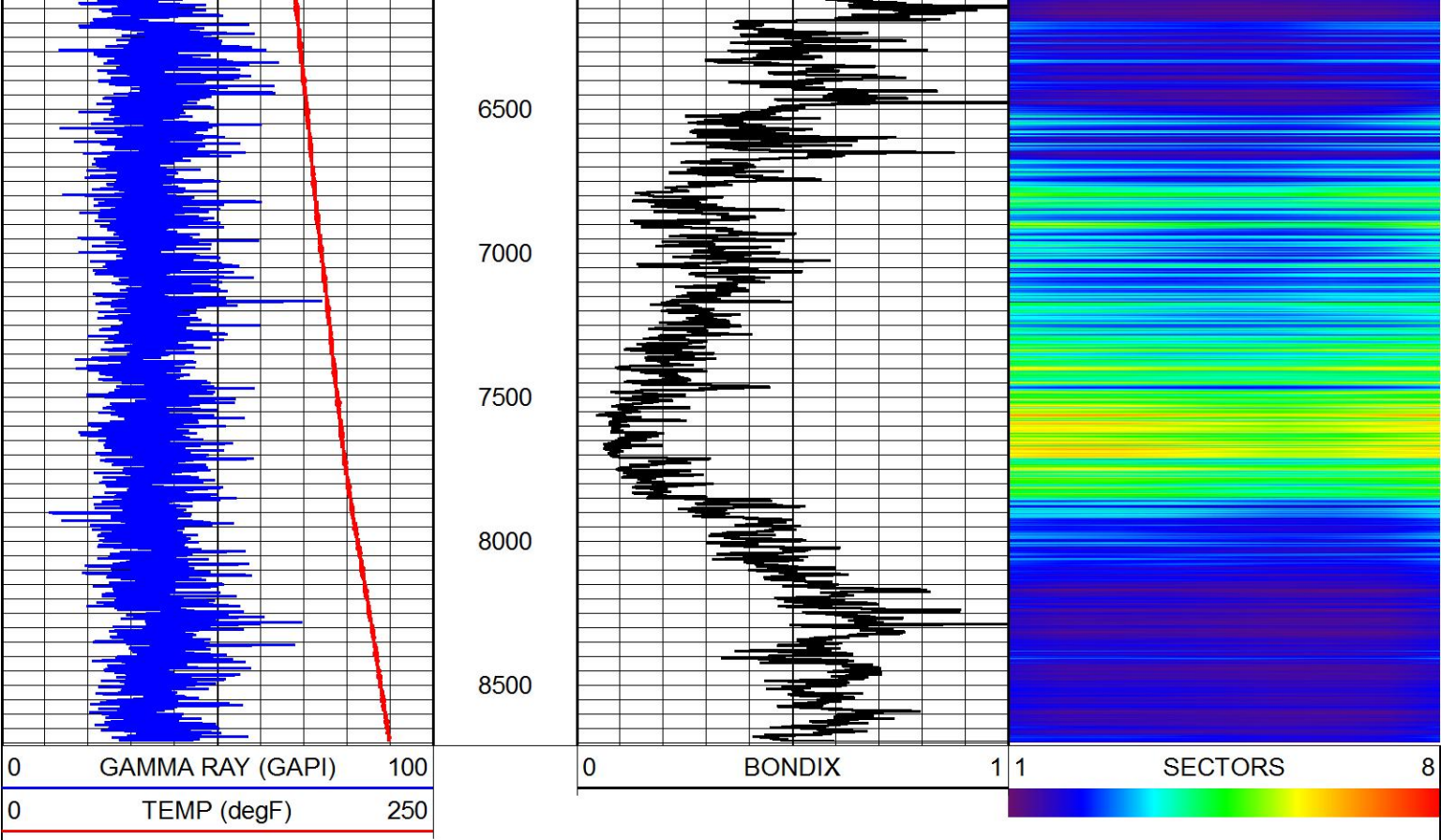
BOND INDEX

1 : 7500

Database File	extraction coyote trails 33w_15_11n.db
Dataset Pathname	Coyote_Trails/33W-15-11N/run1/MAIN1.1
Presentation Format	!BONDI~1
Dataset Creation	Mon Jul 22 23:05:54 2019
Charted by	Depth in Feet scaled 1:7500

0	GAMMA RAY (GAPI)	100	0	BONDIX	1	1	SECTORS	8
0	TEMP (degF)	250						

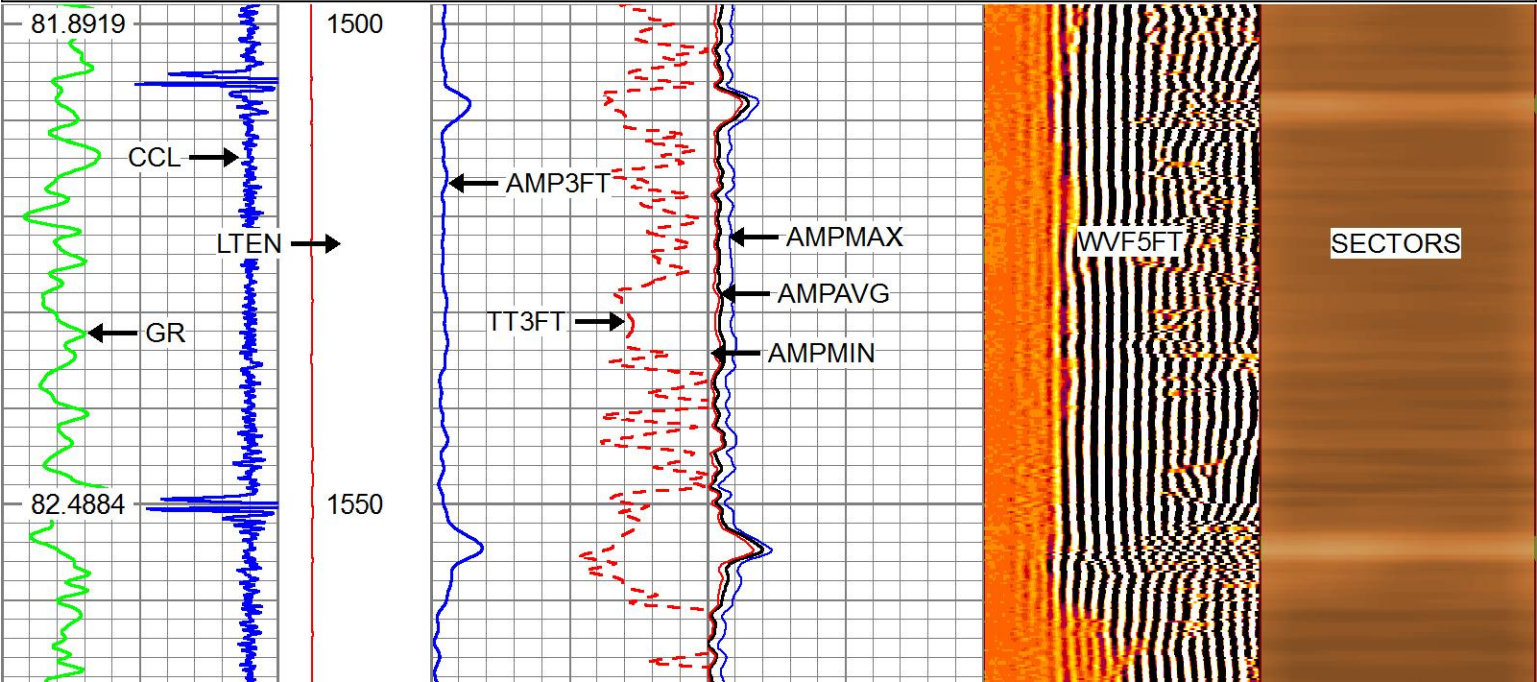
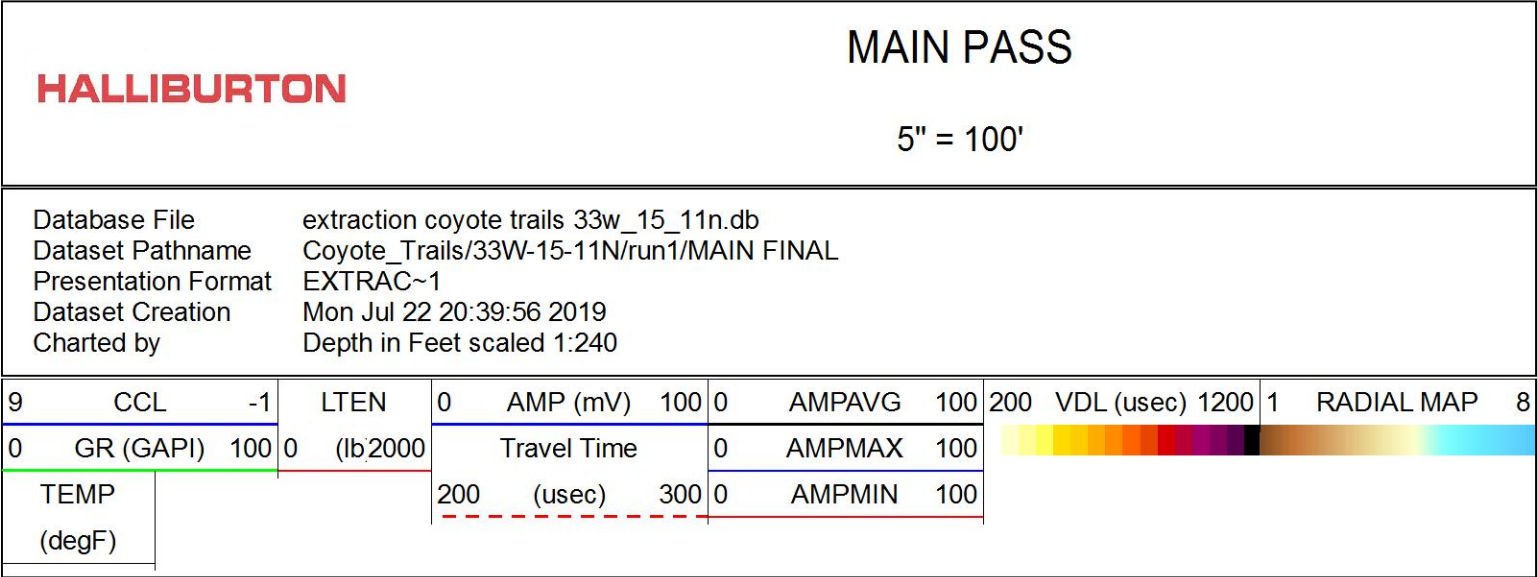


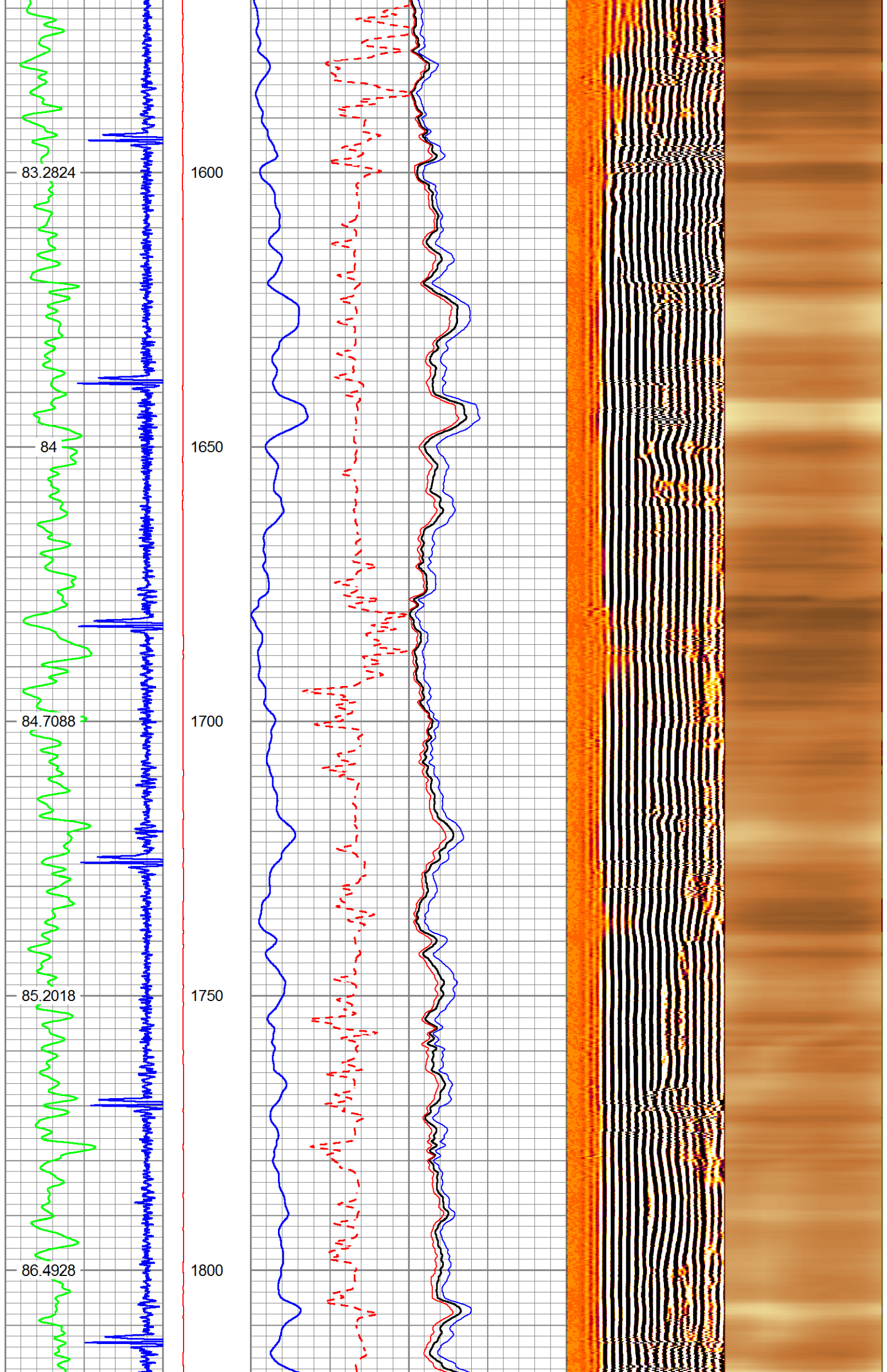


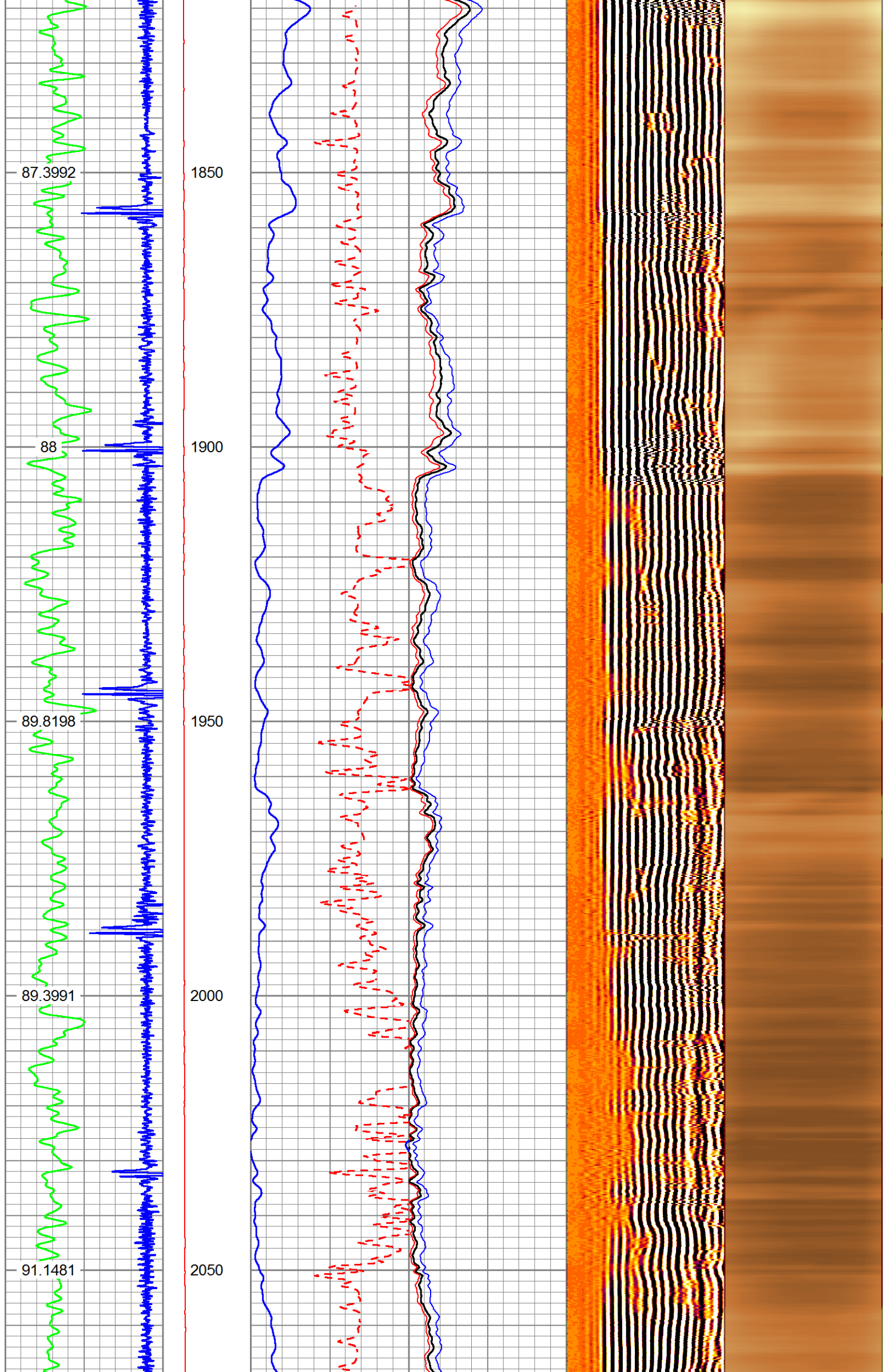
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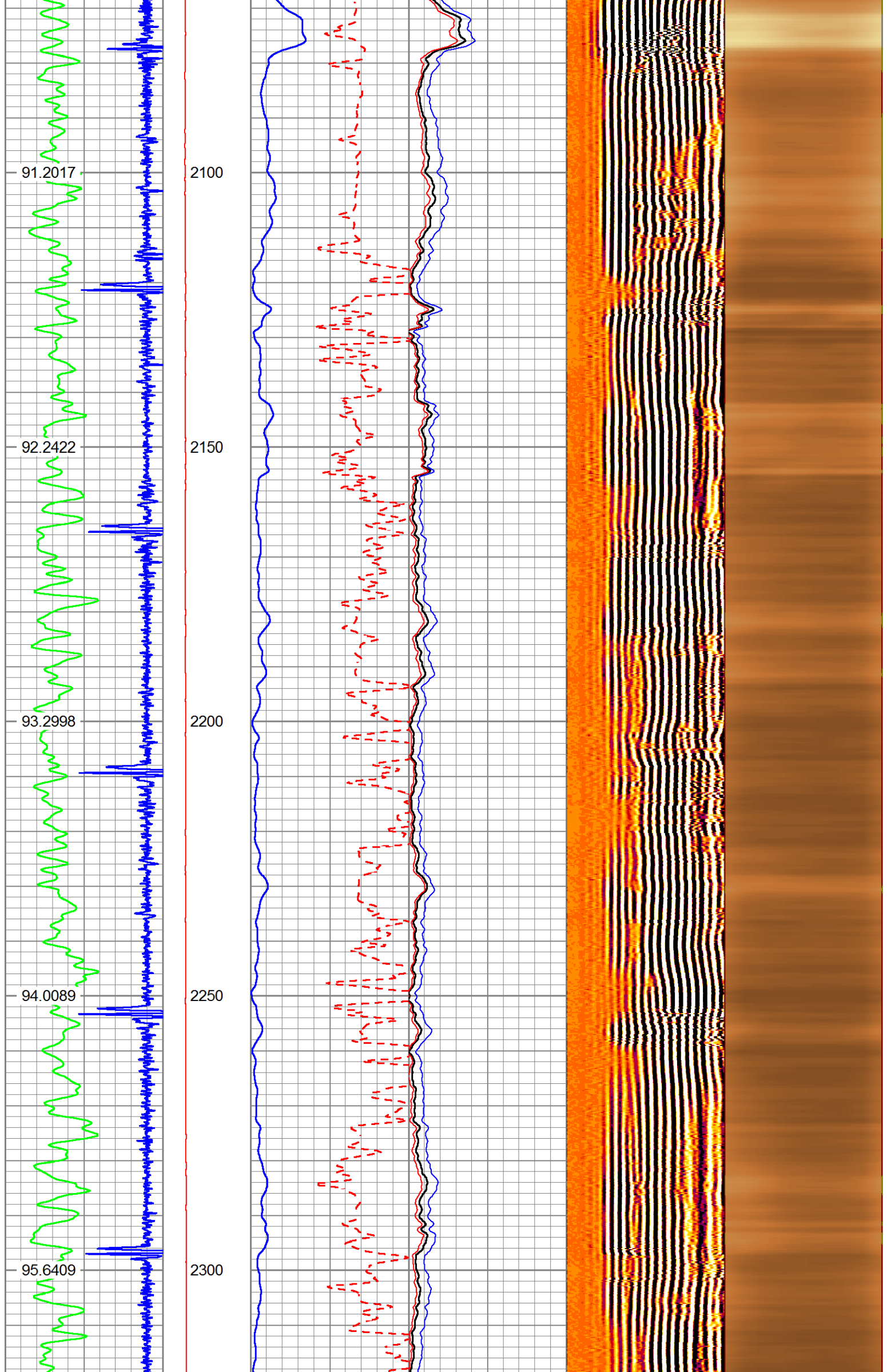
BOND INDEX

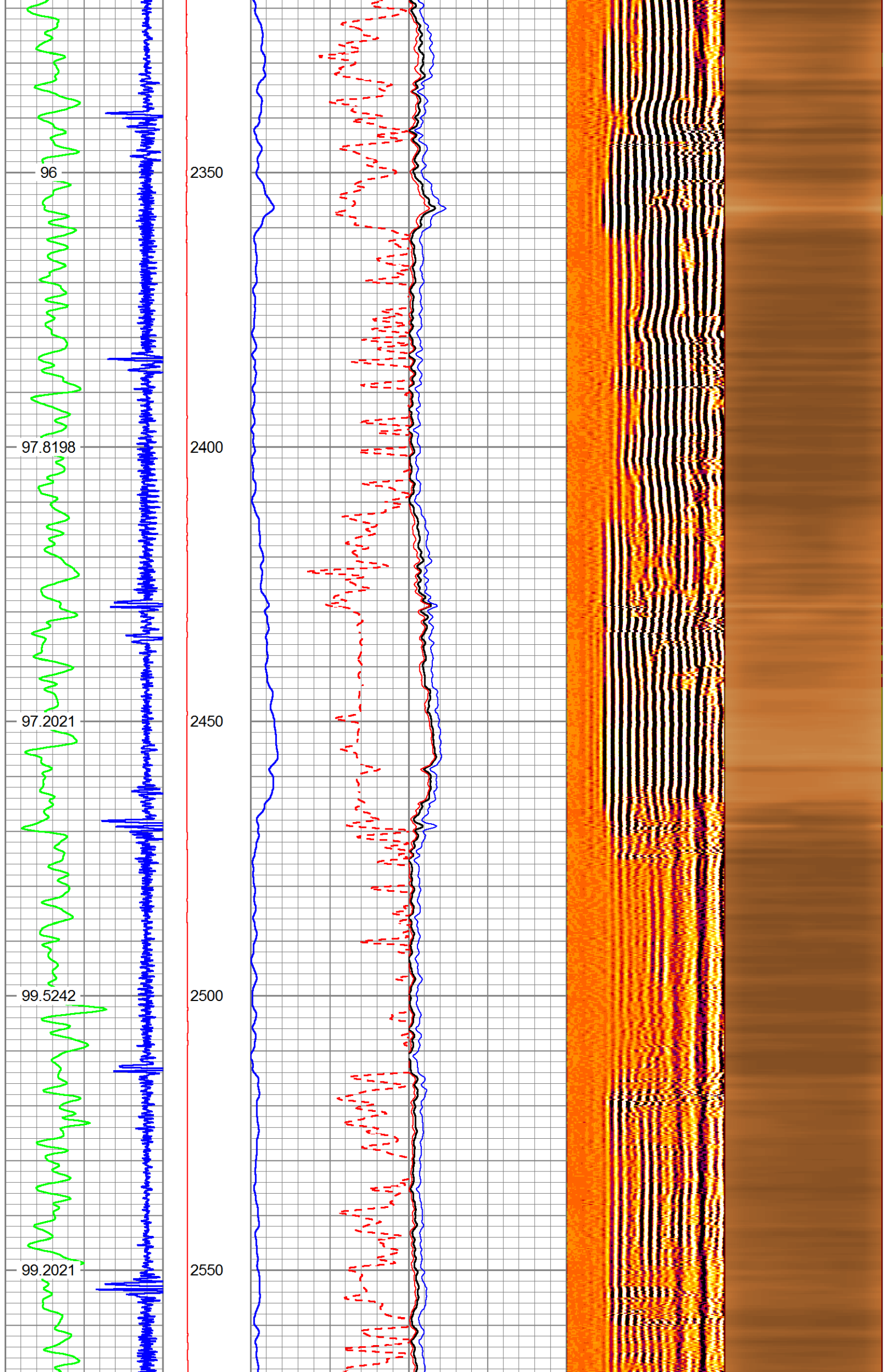
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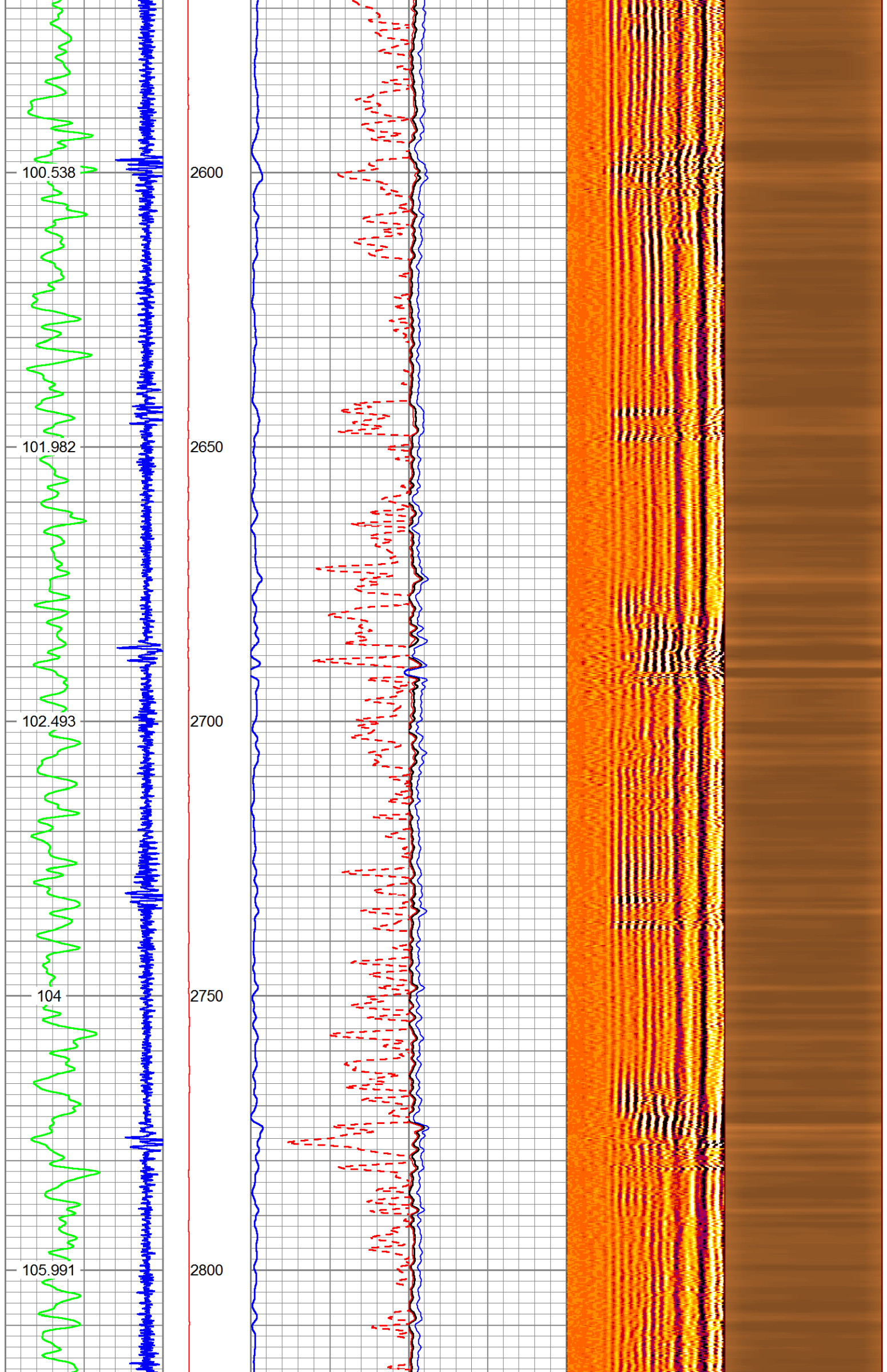


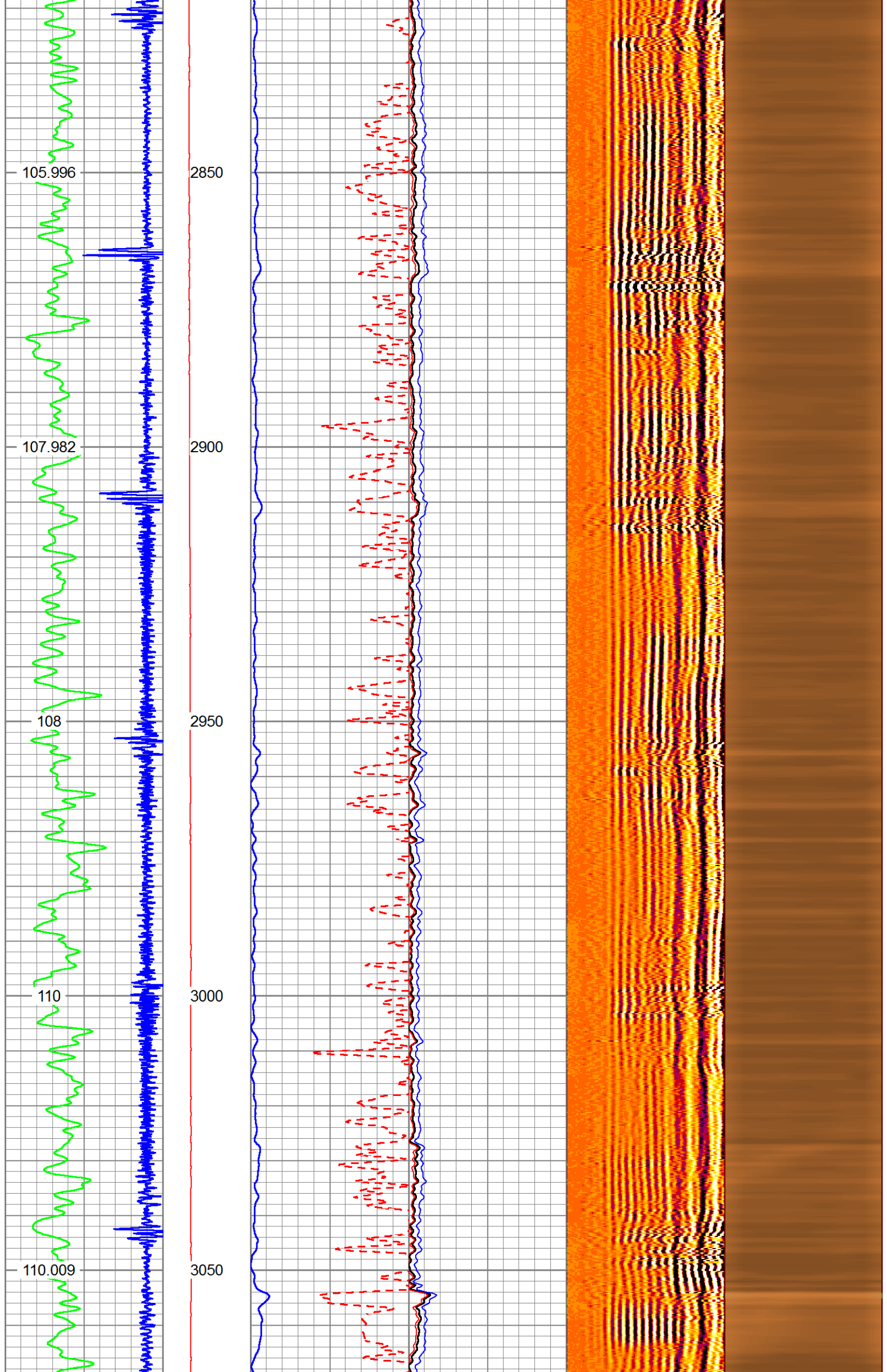


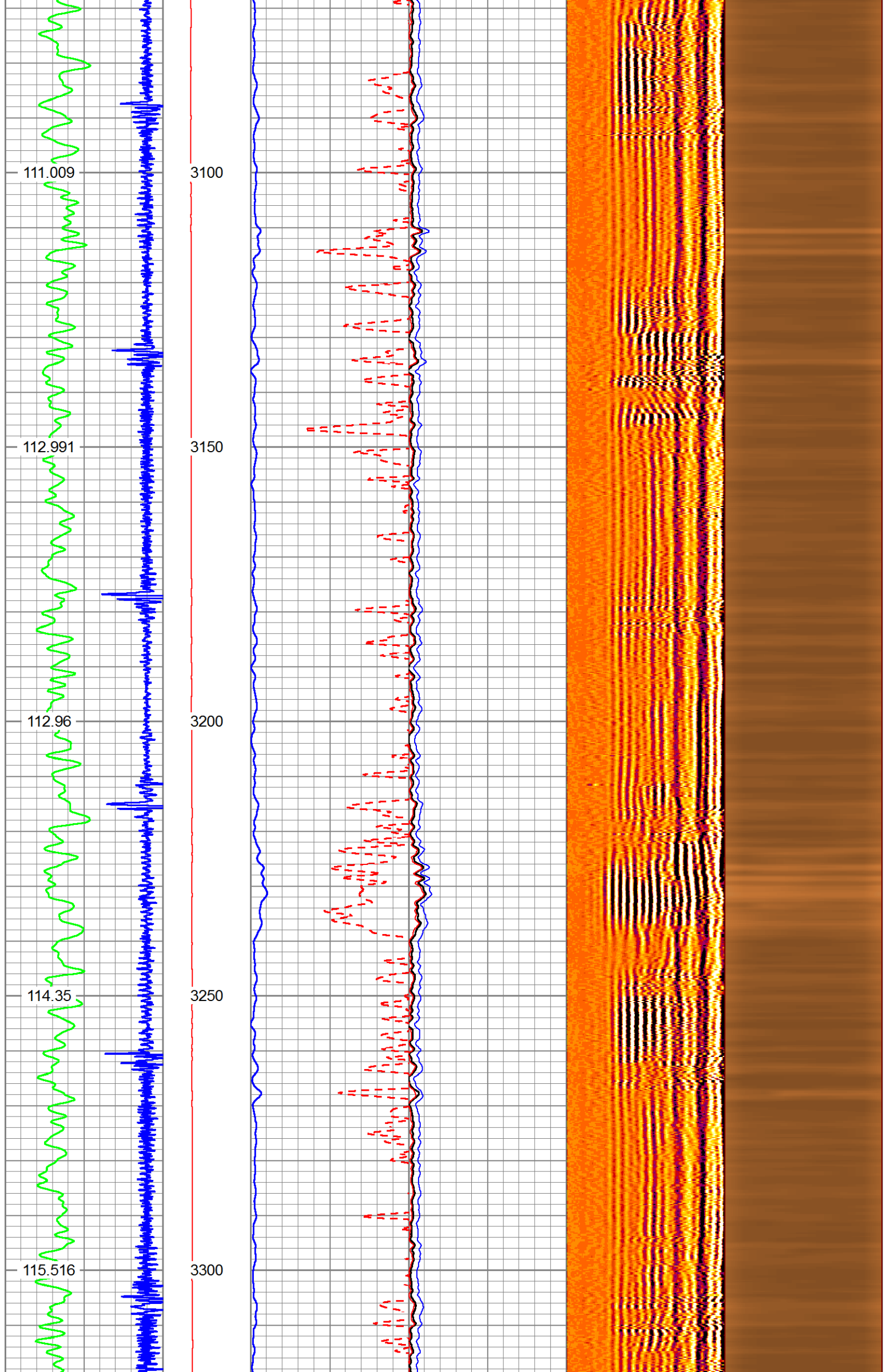


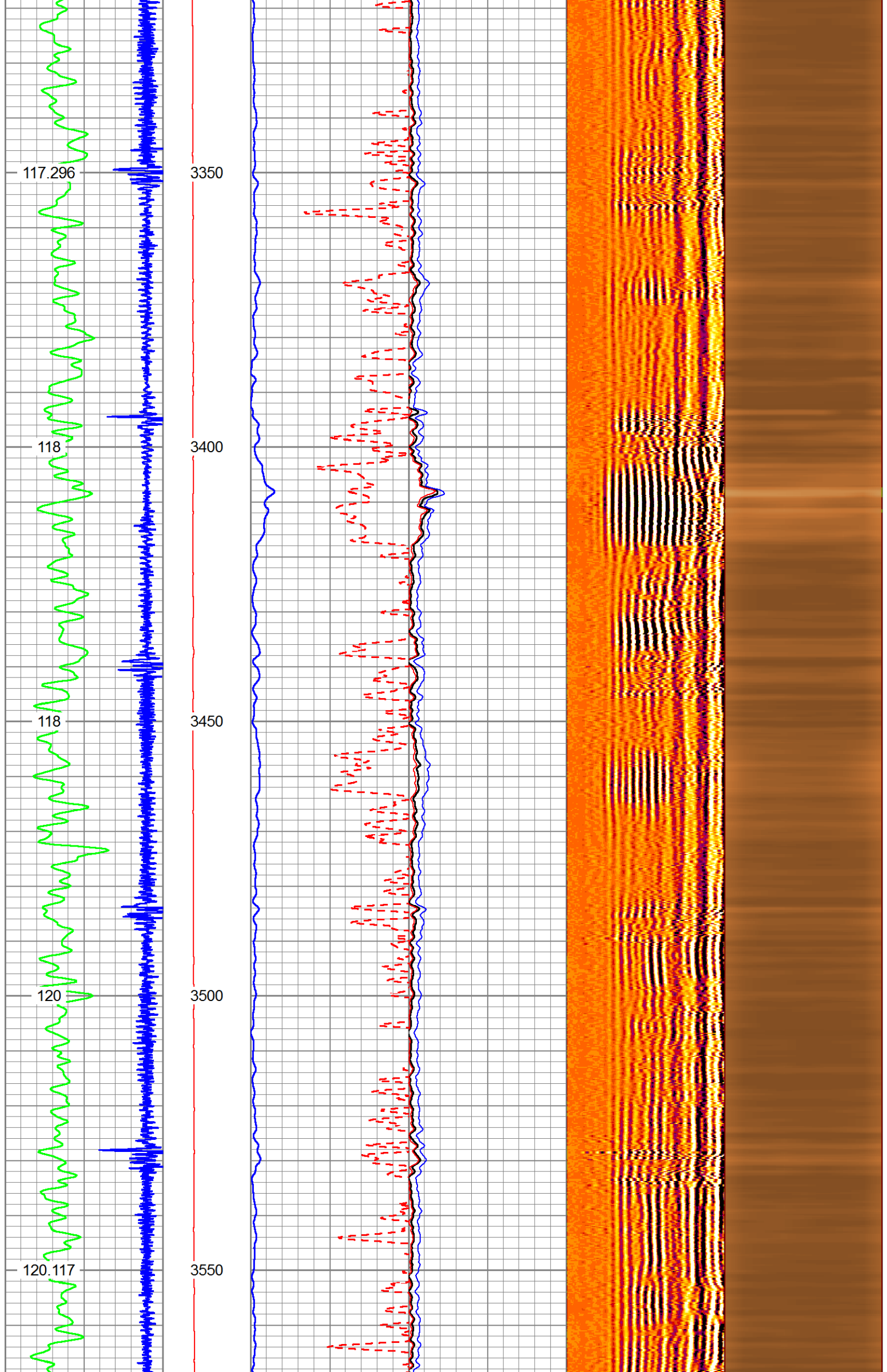


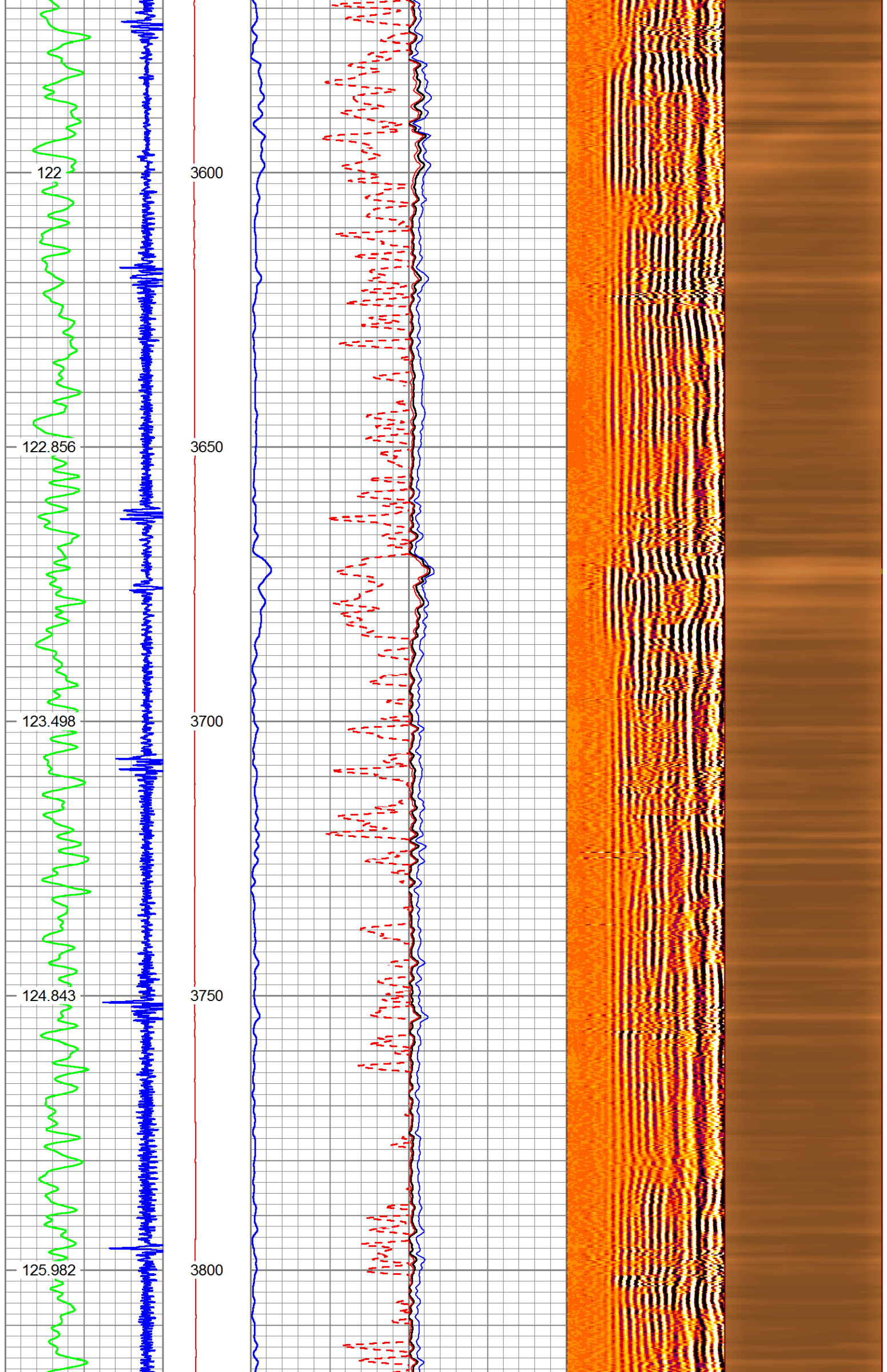


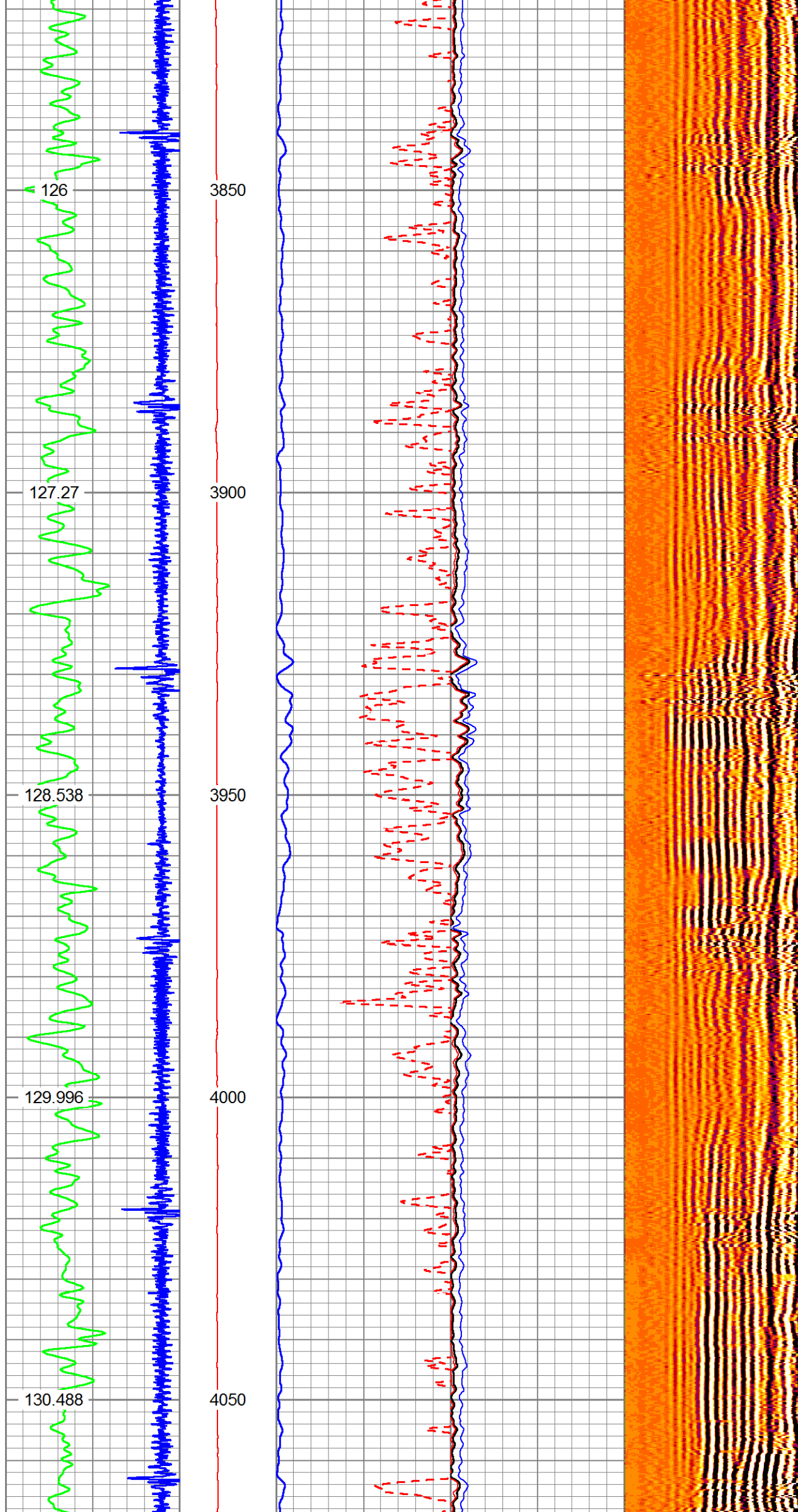


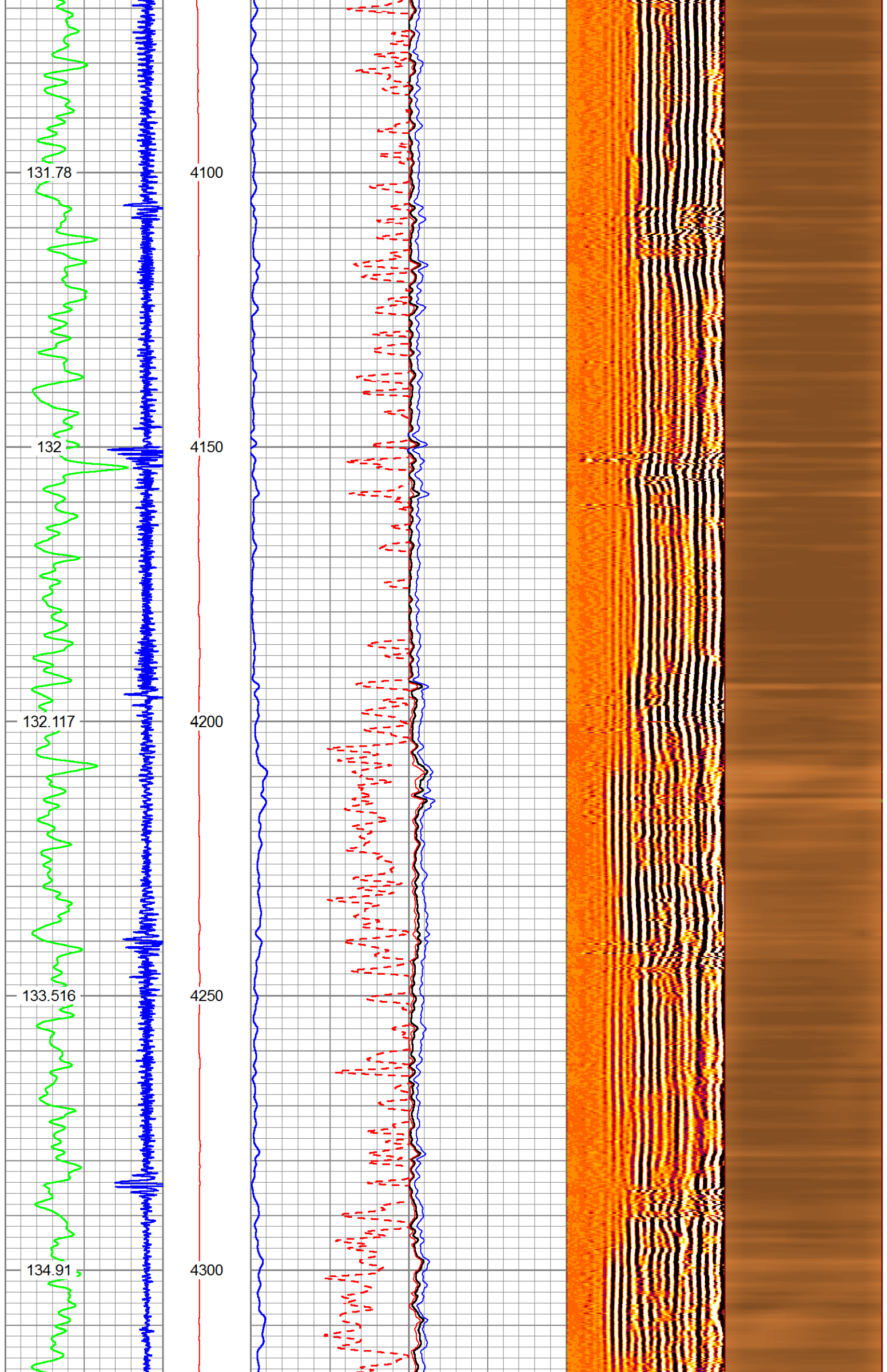


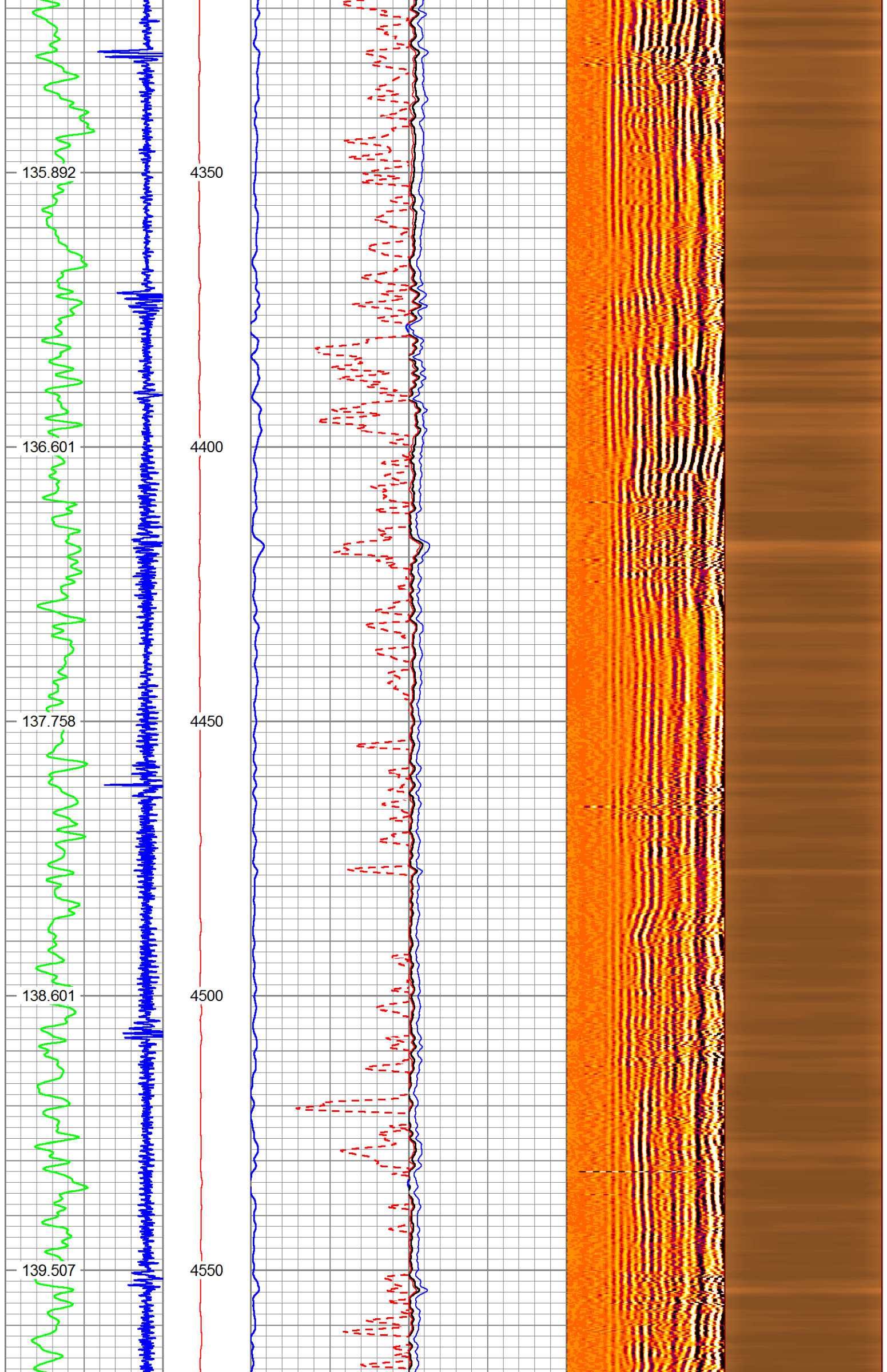


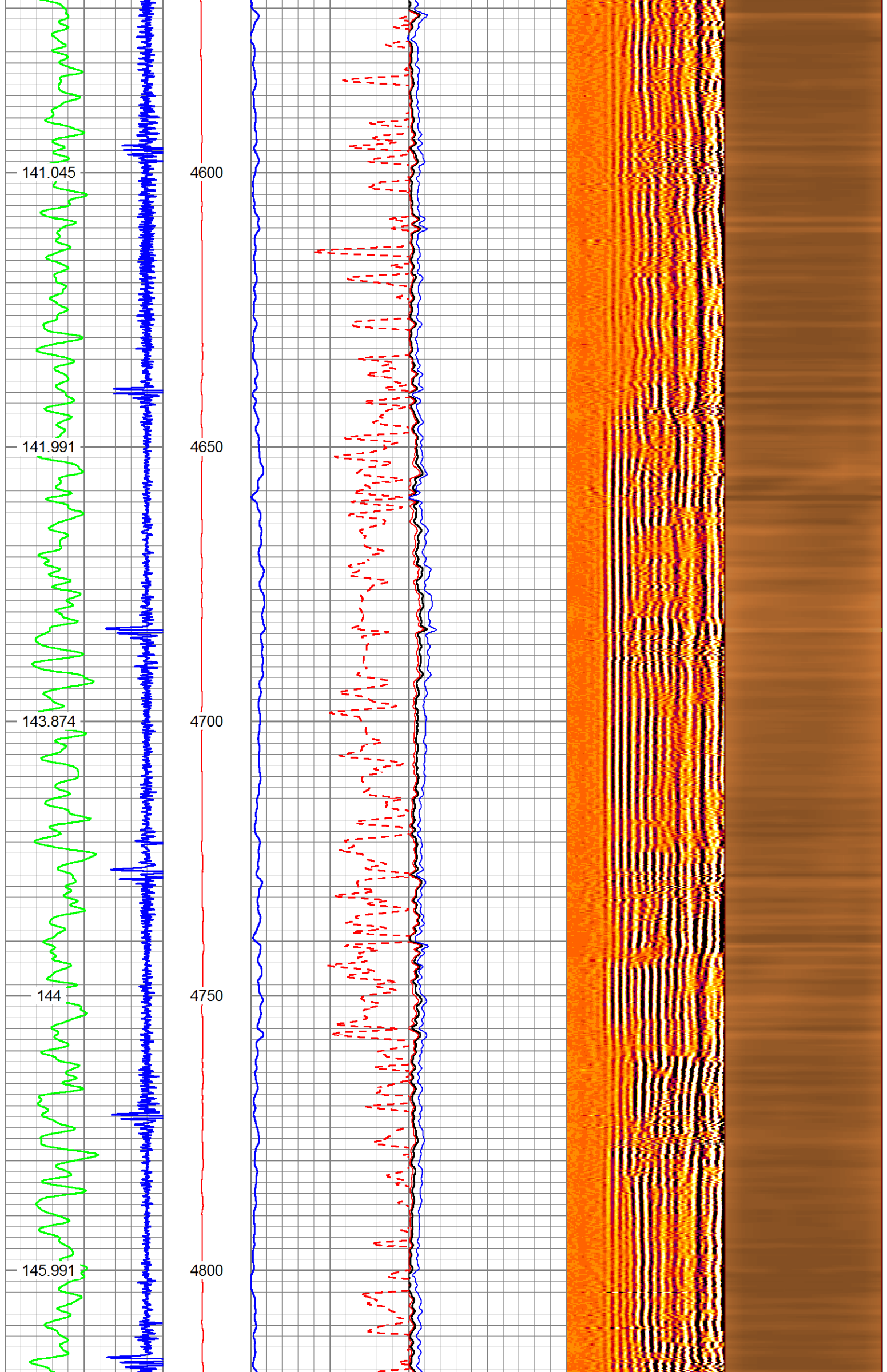


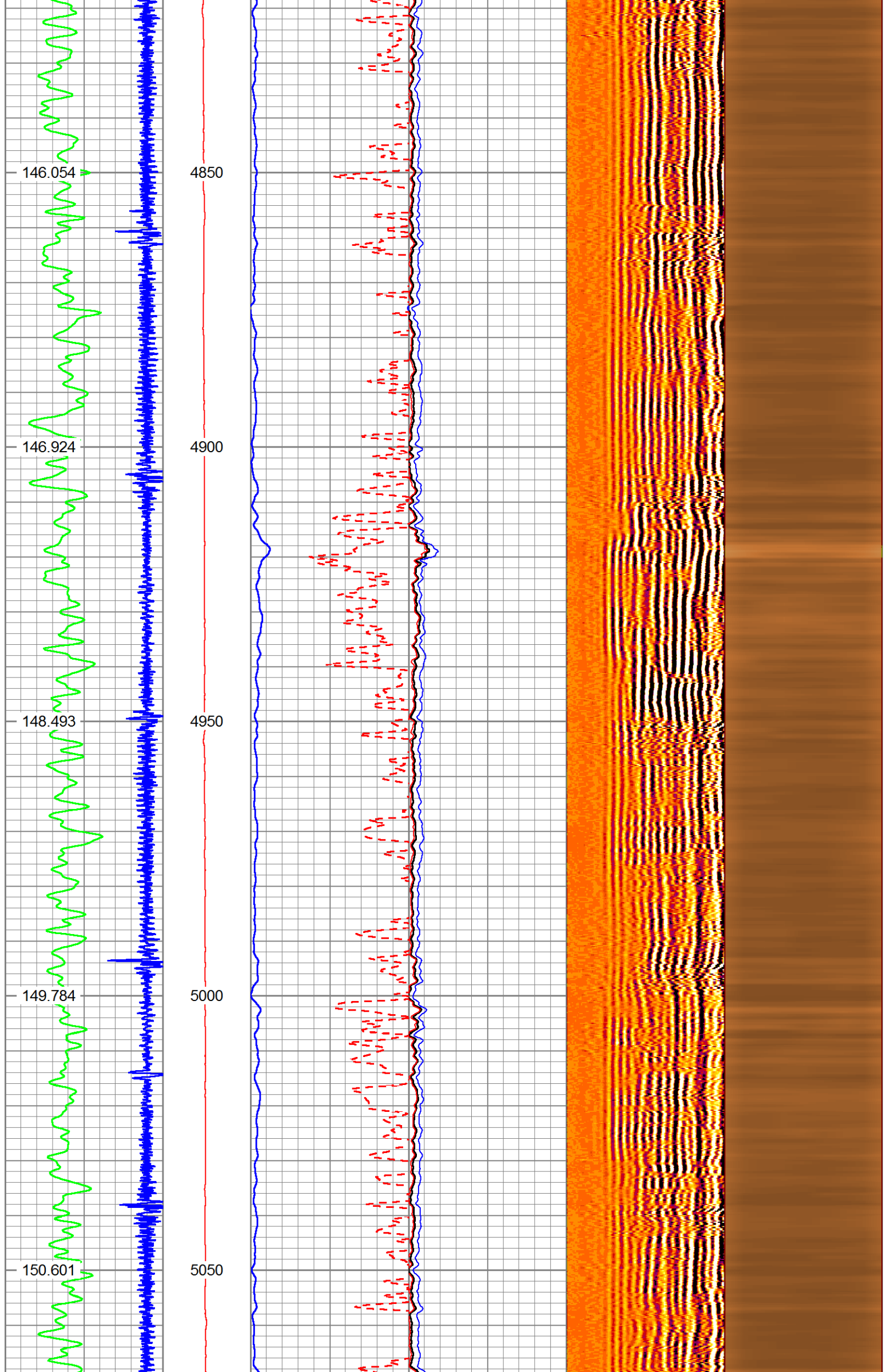


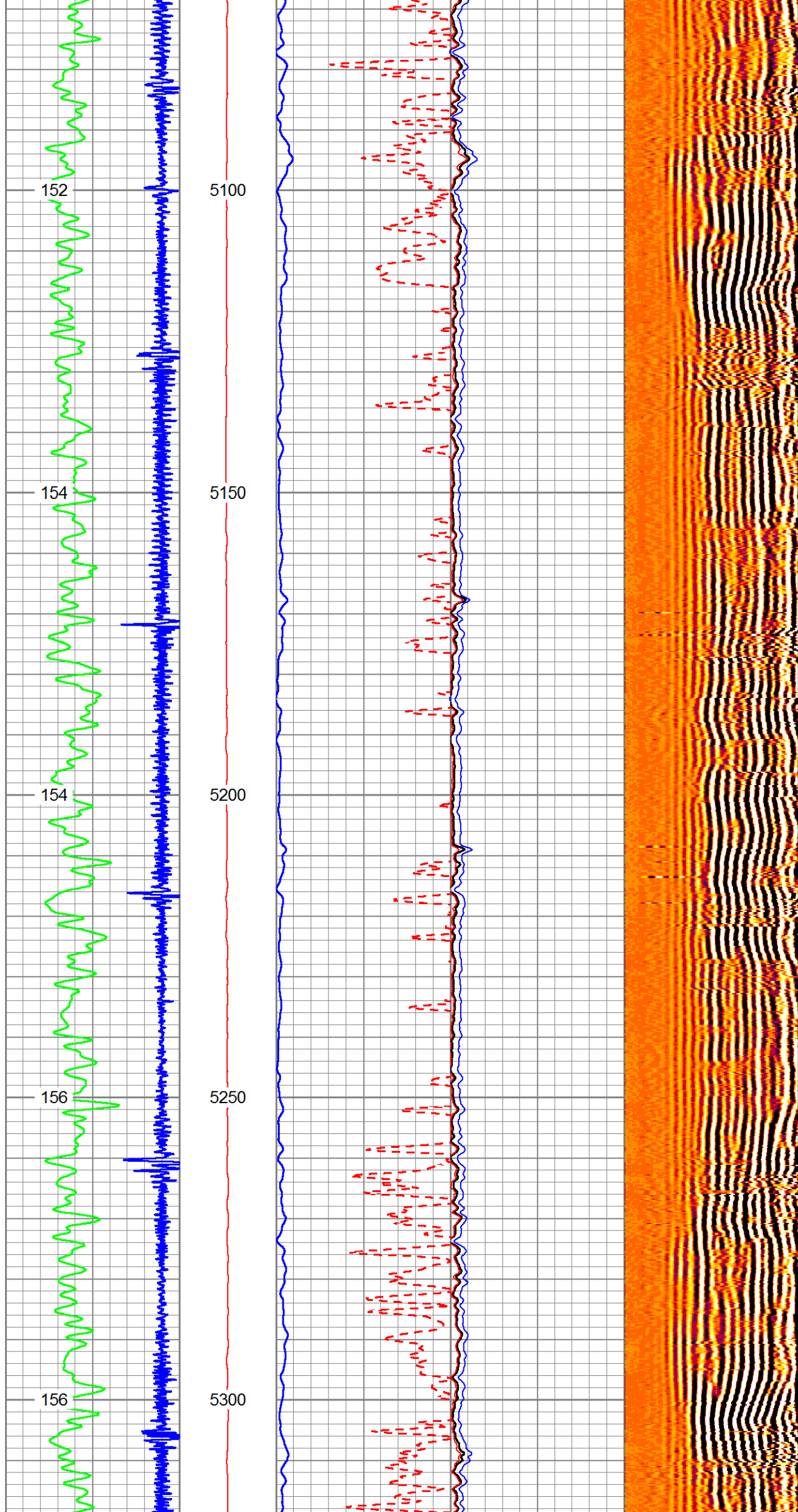


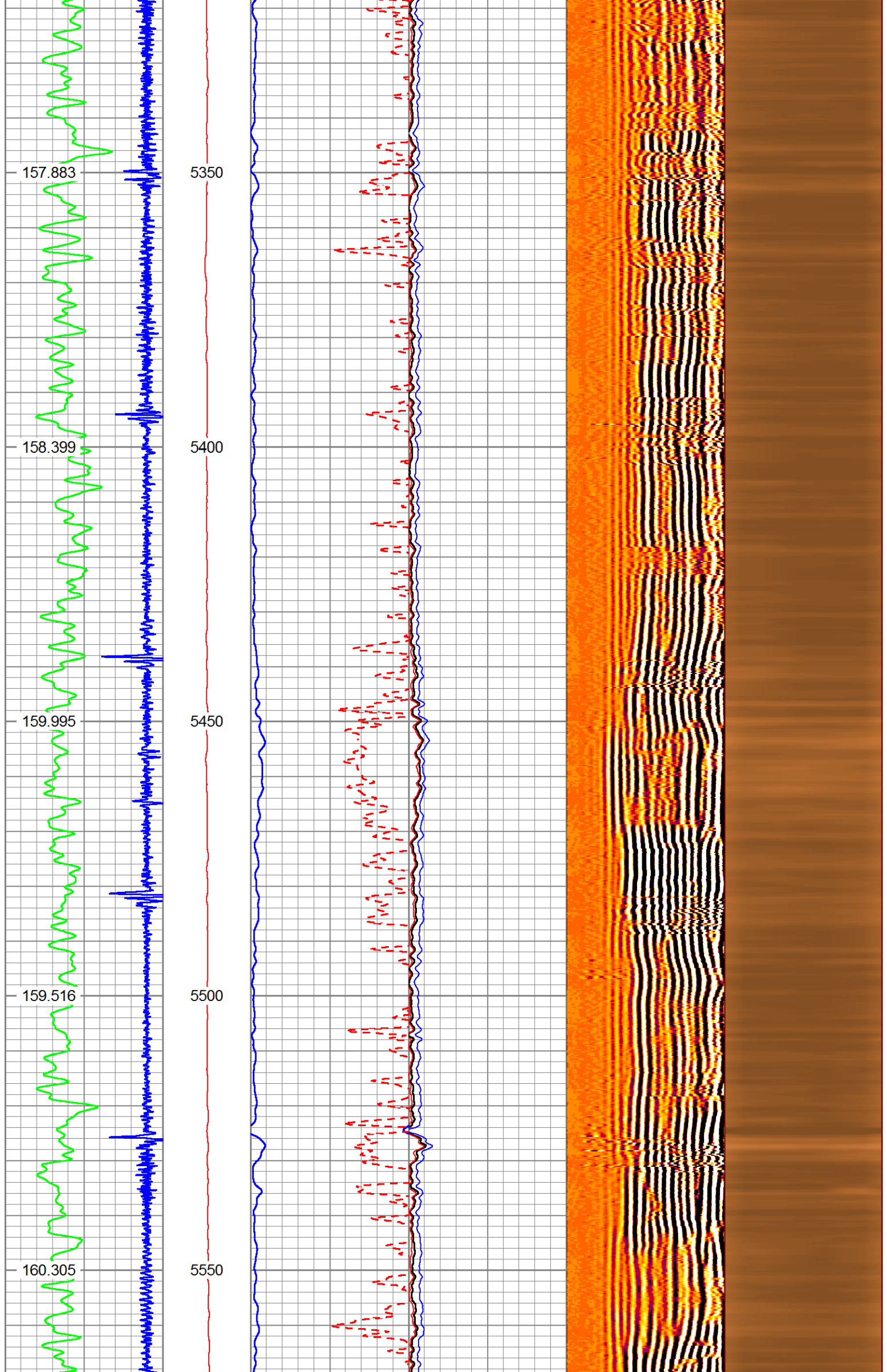


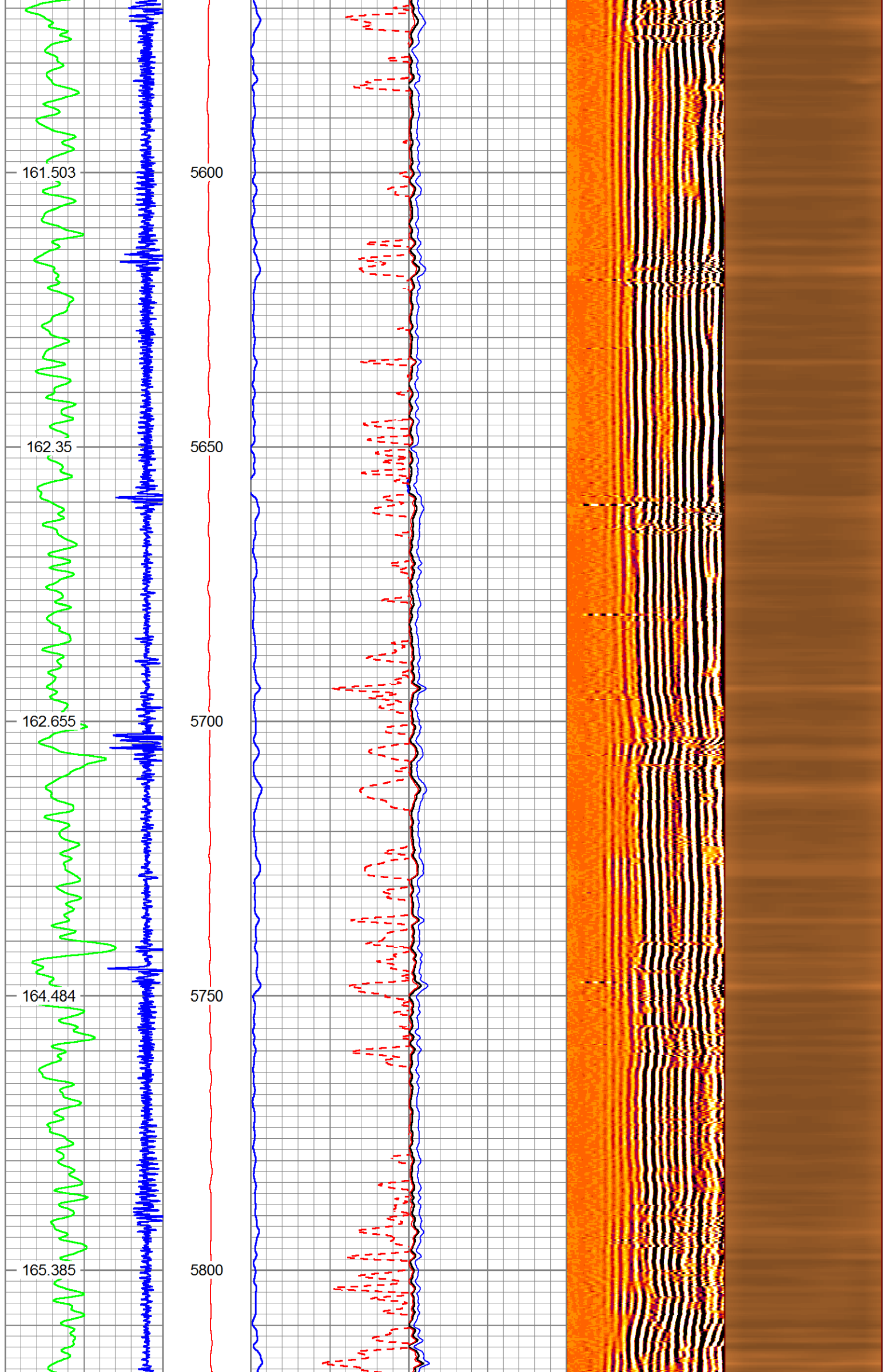


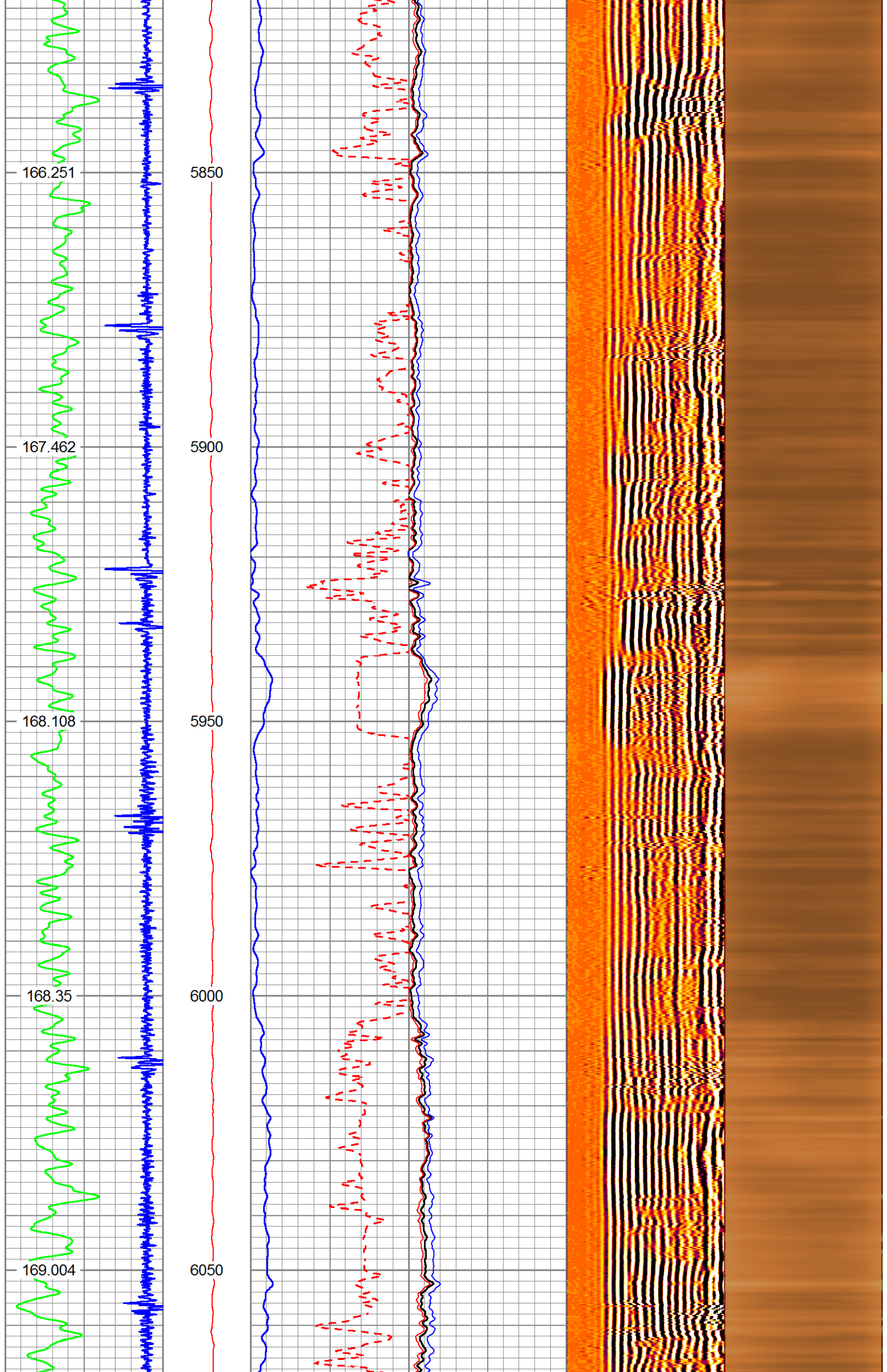


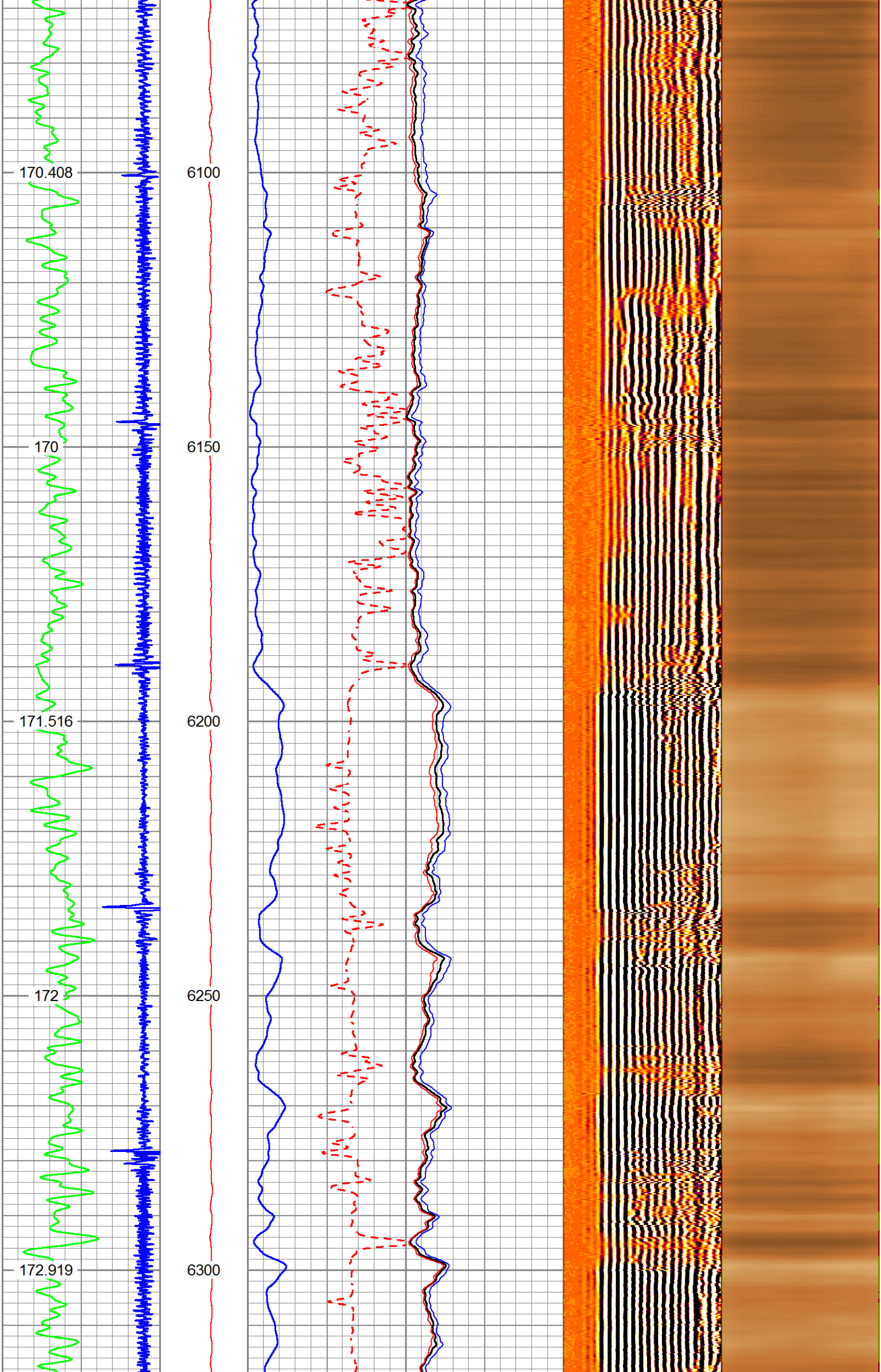


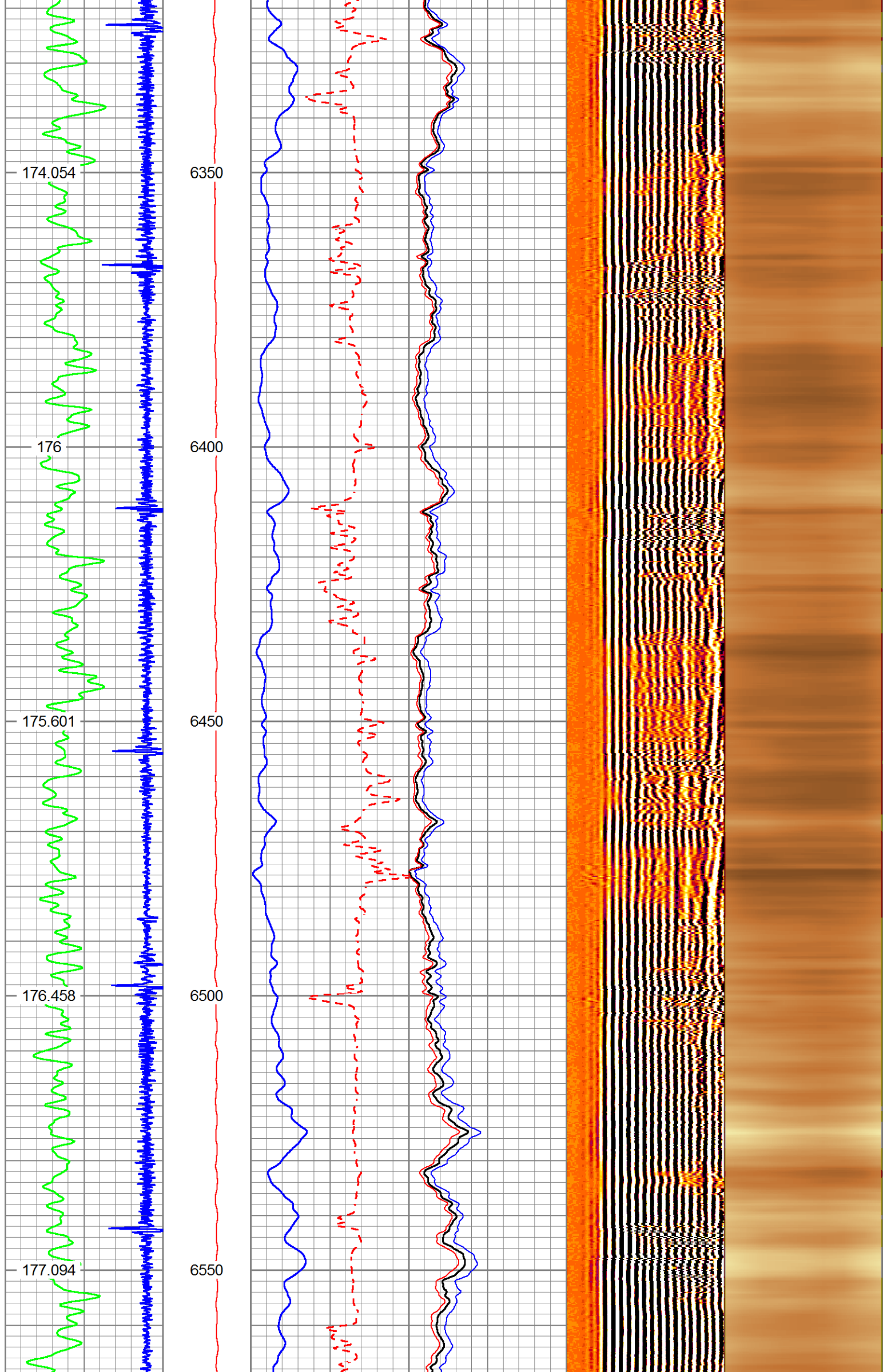


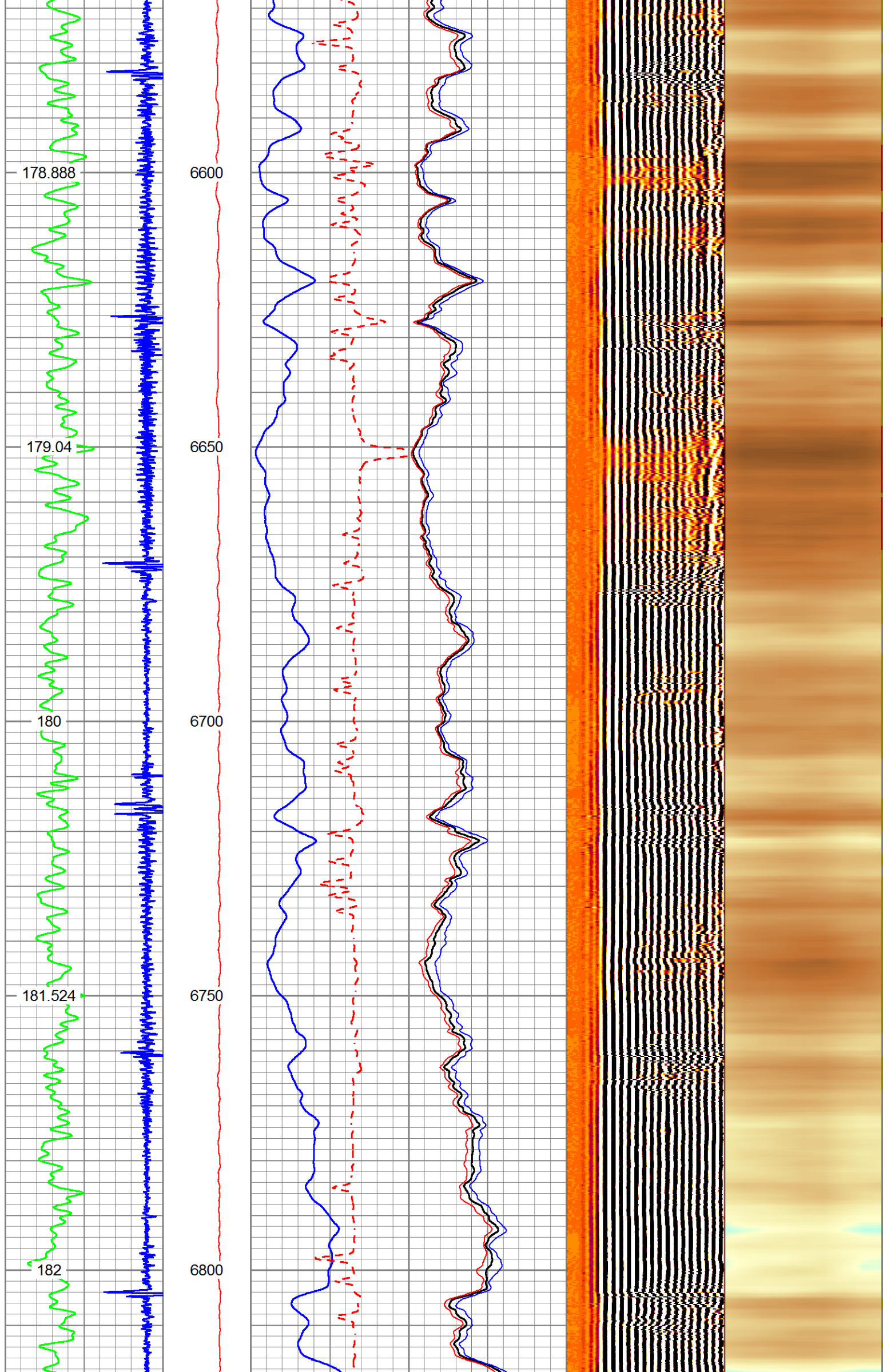


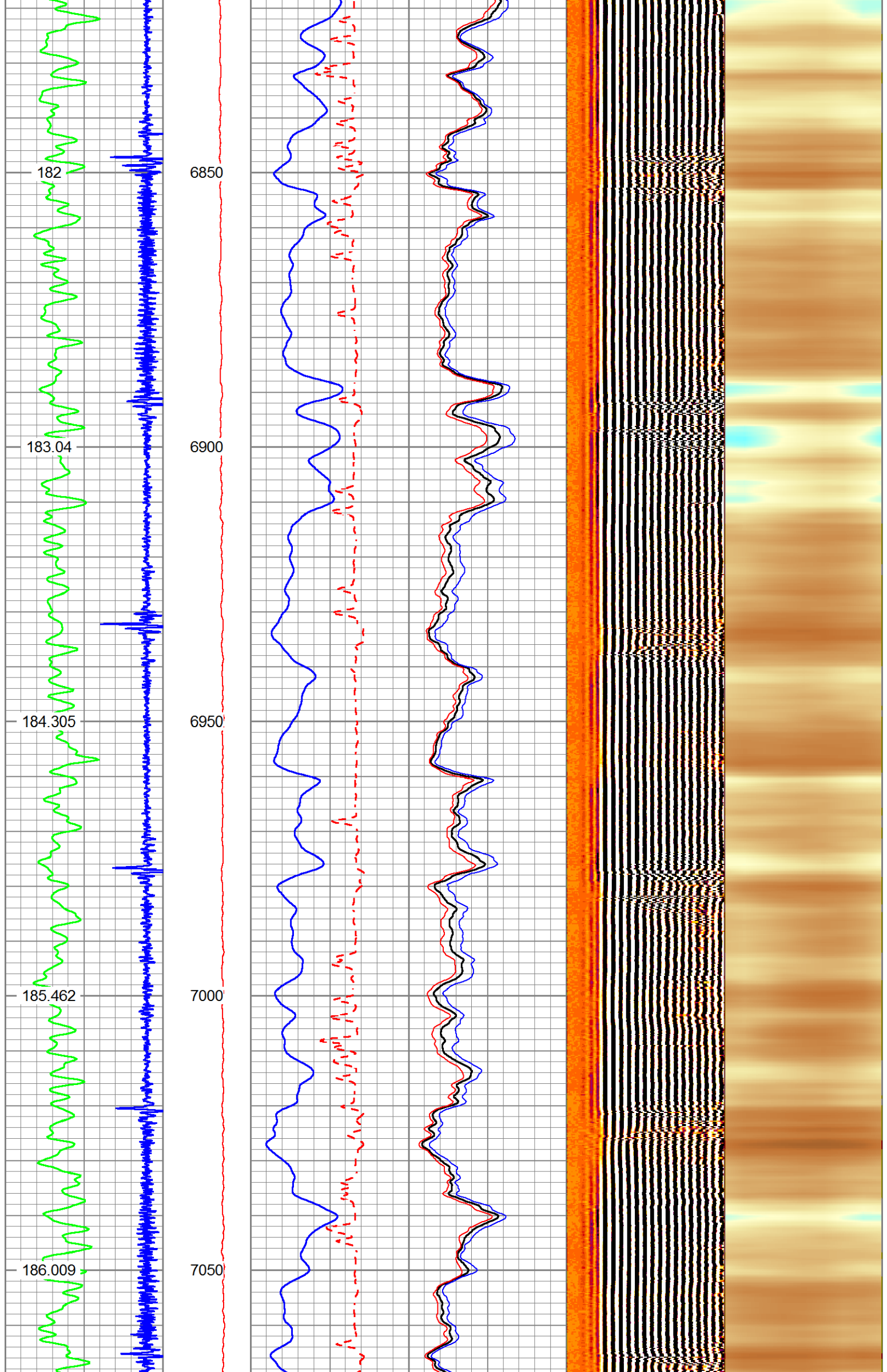


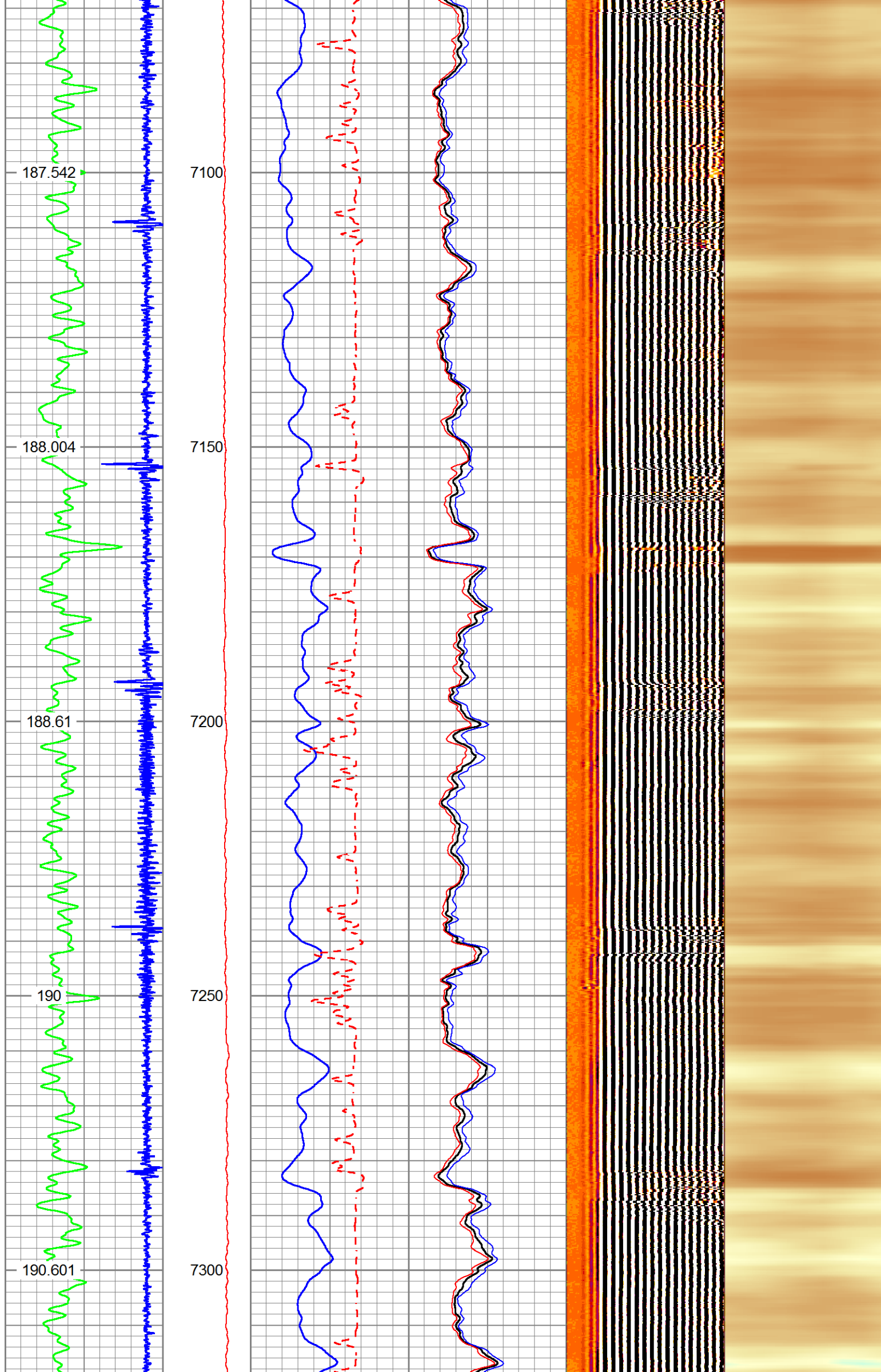


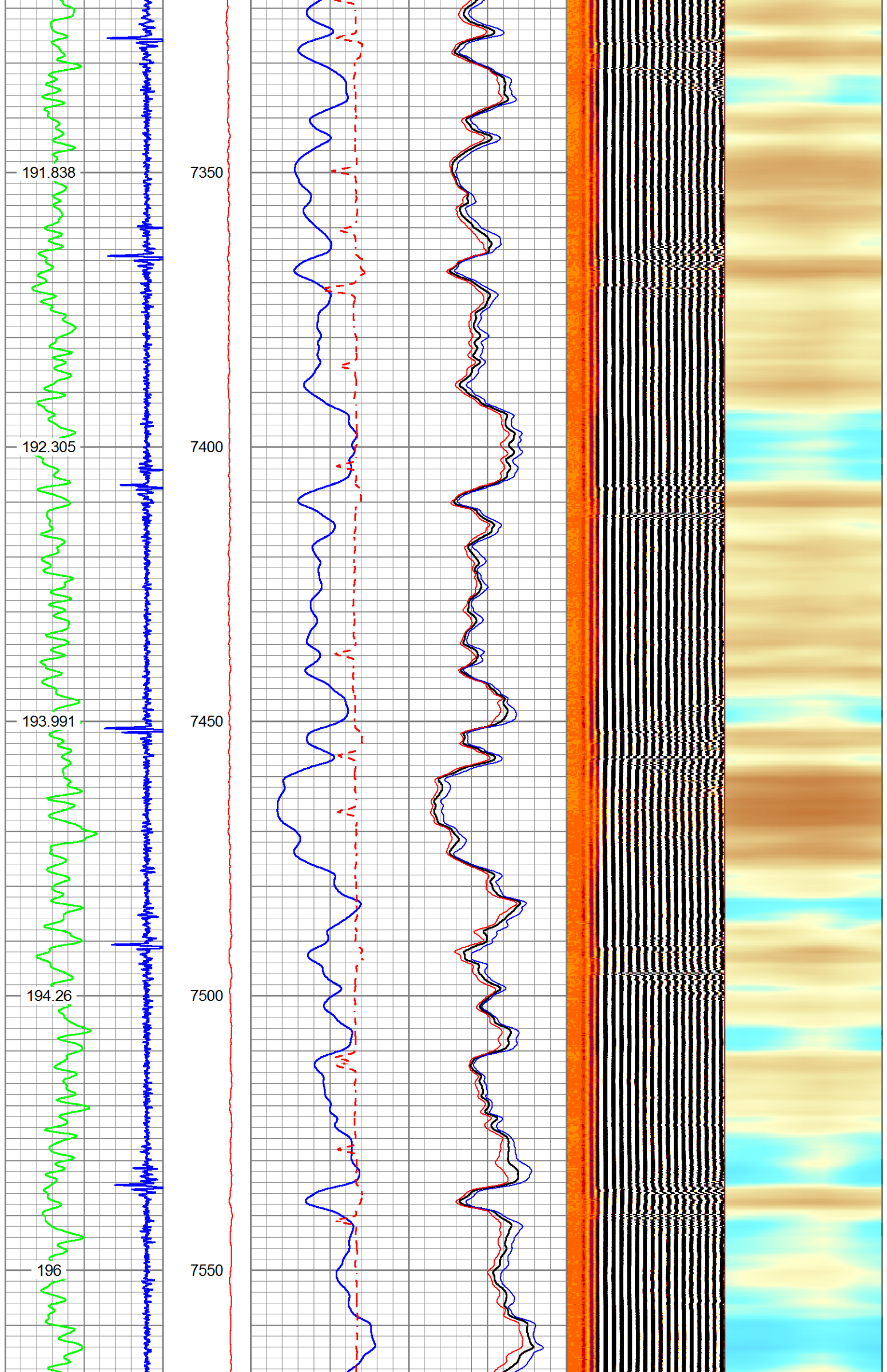


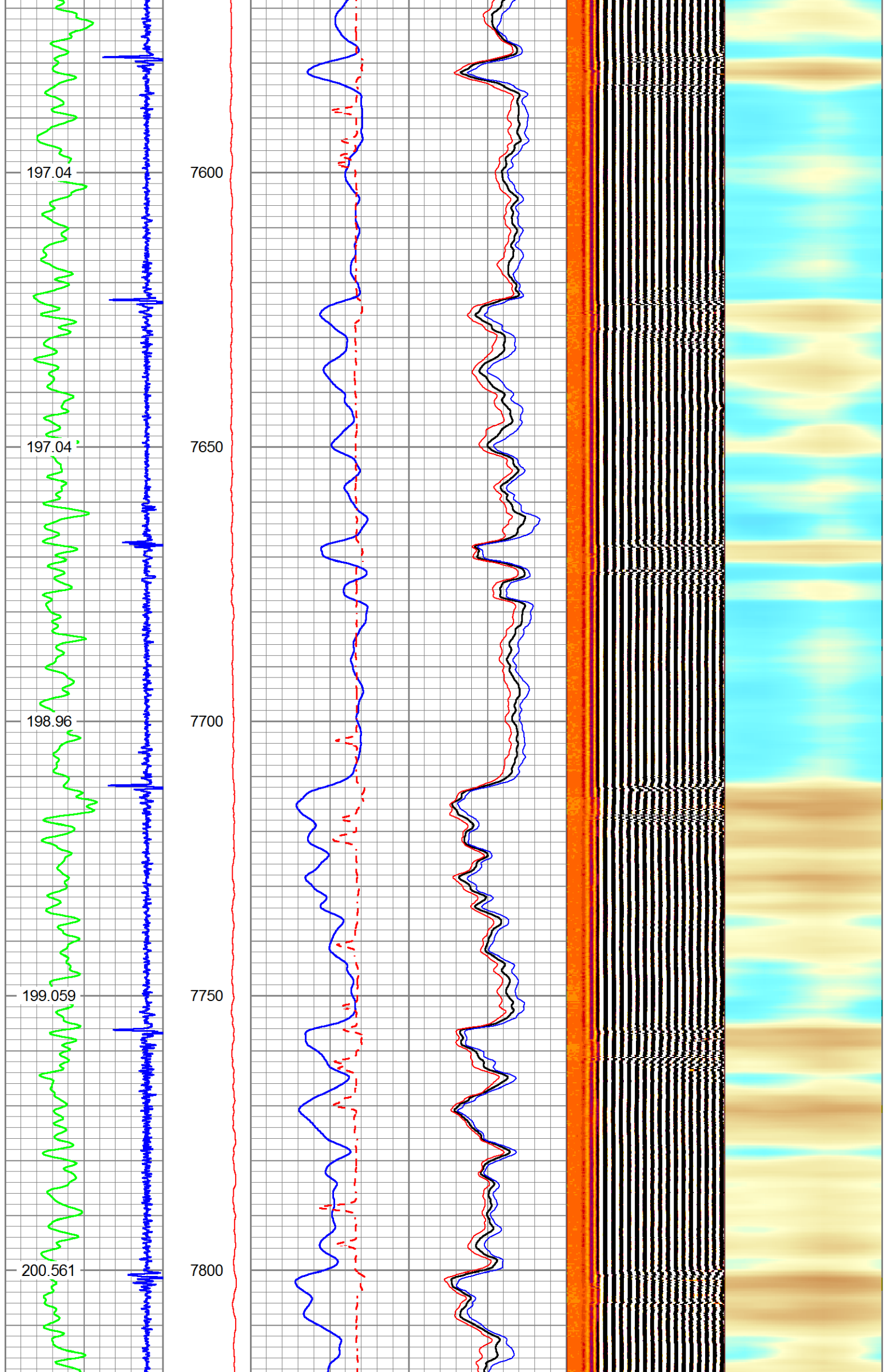


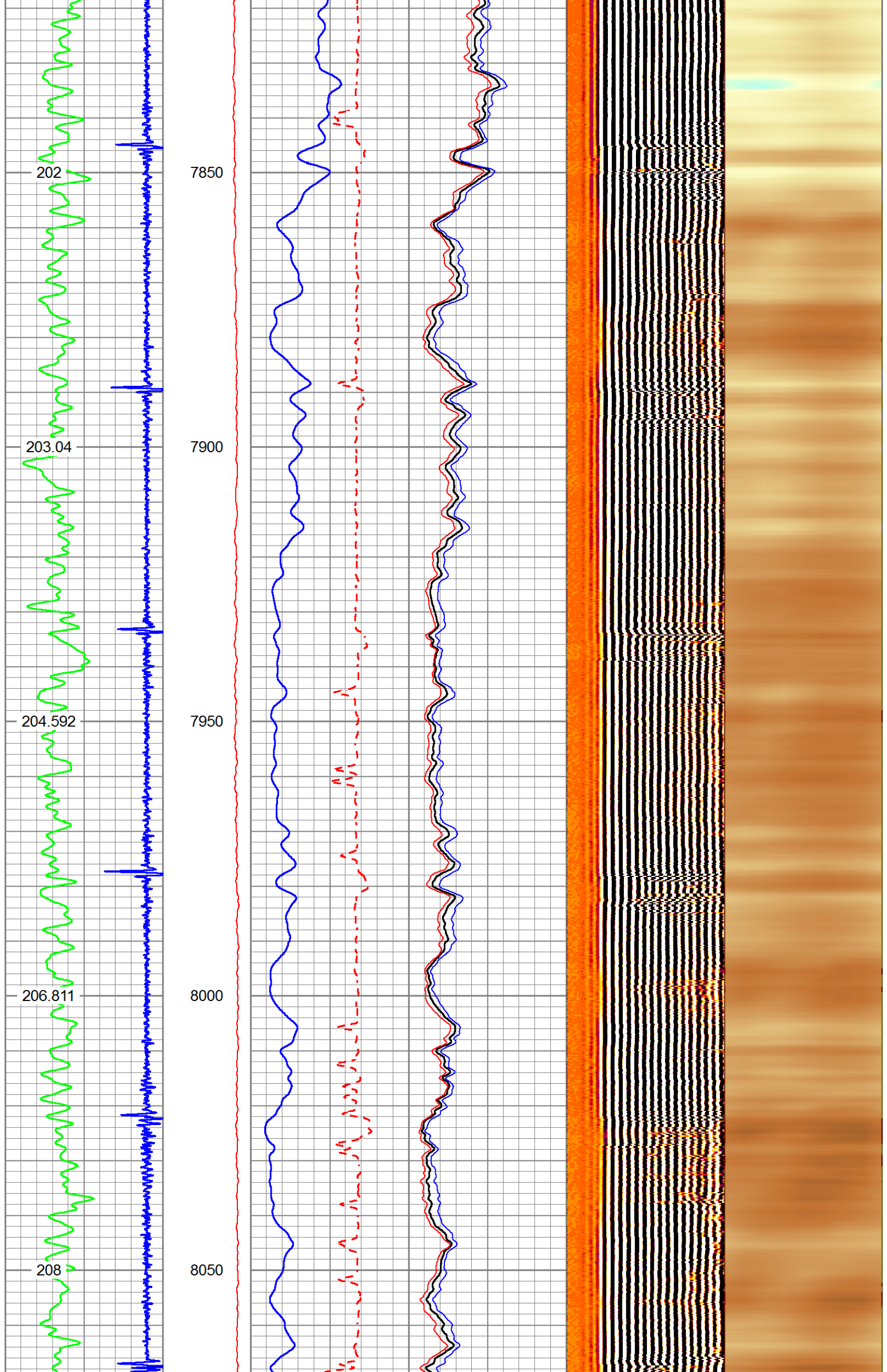


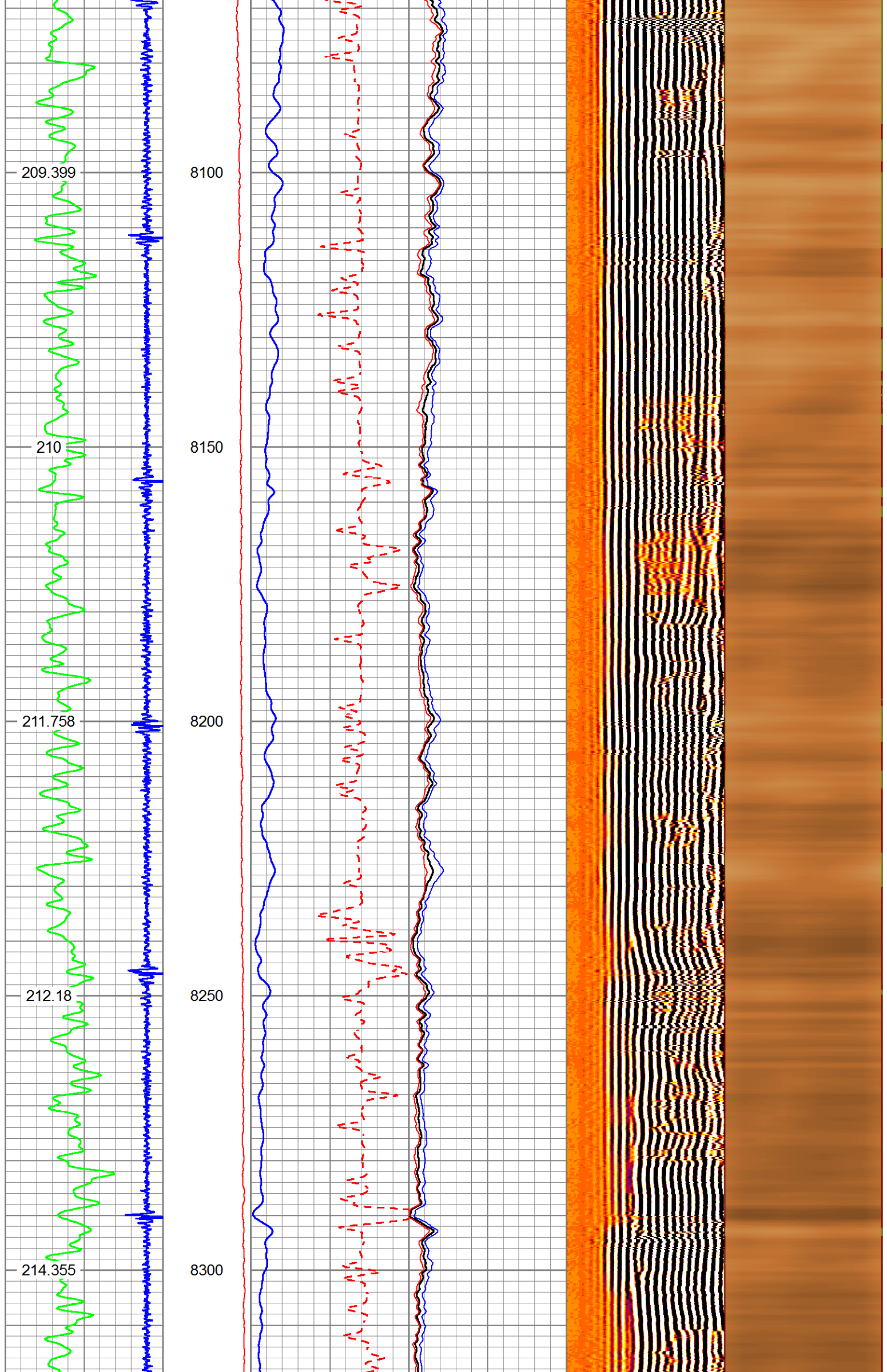


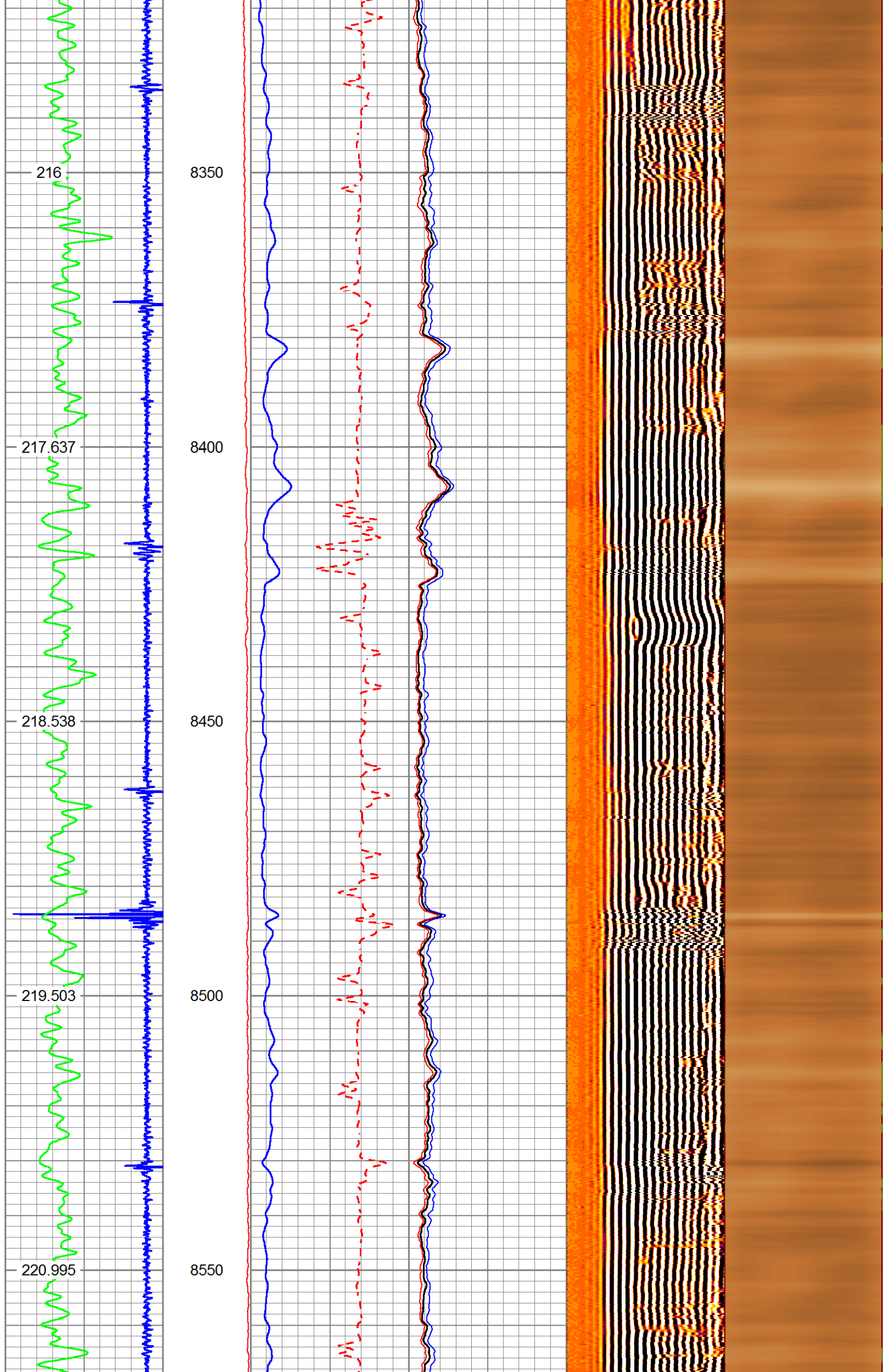


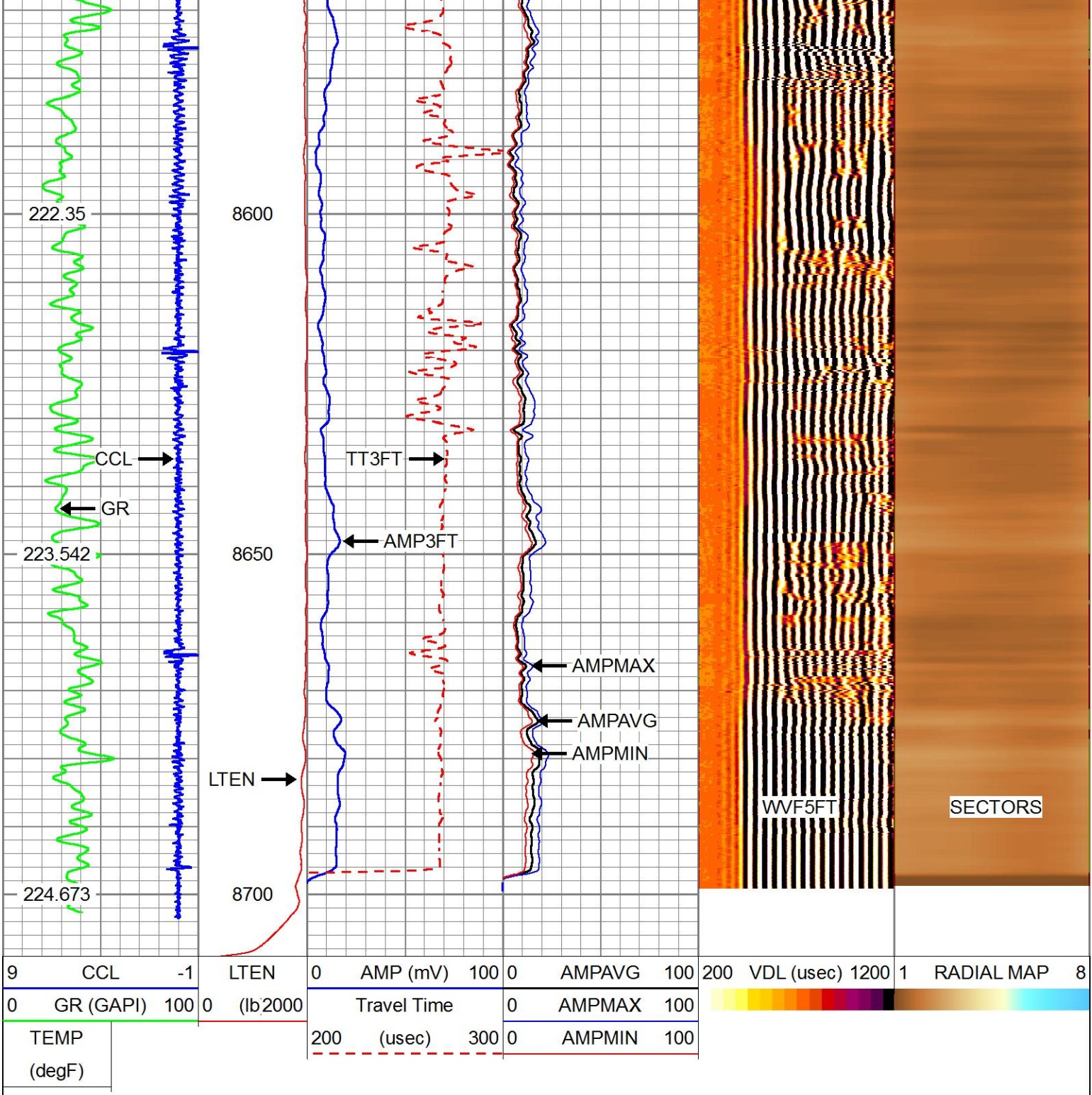












MAIN PASS

5" = 100'

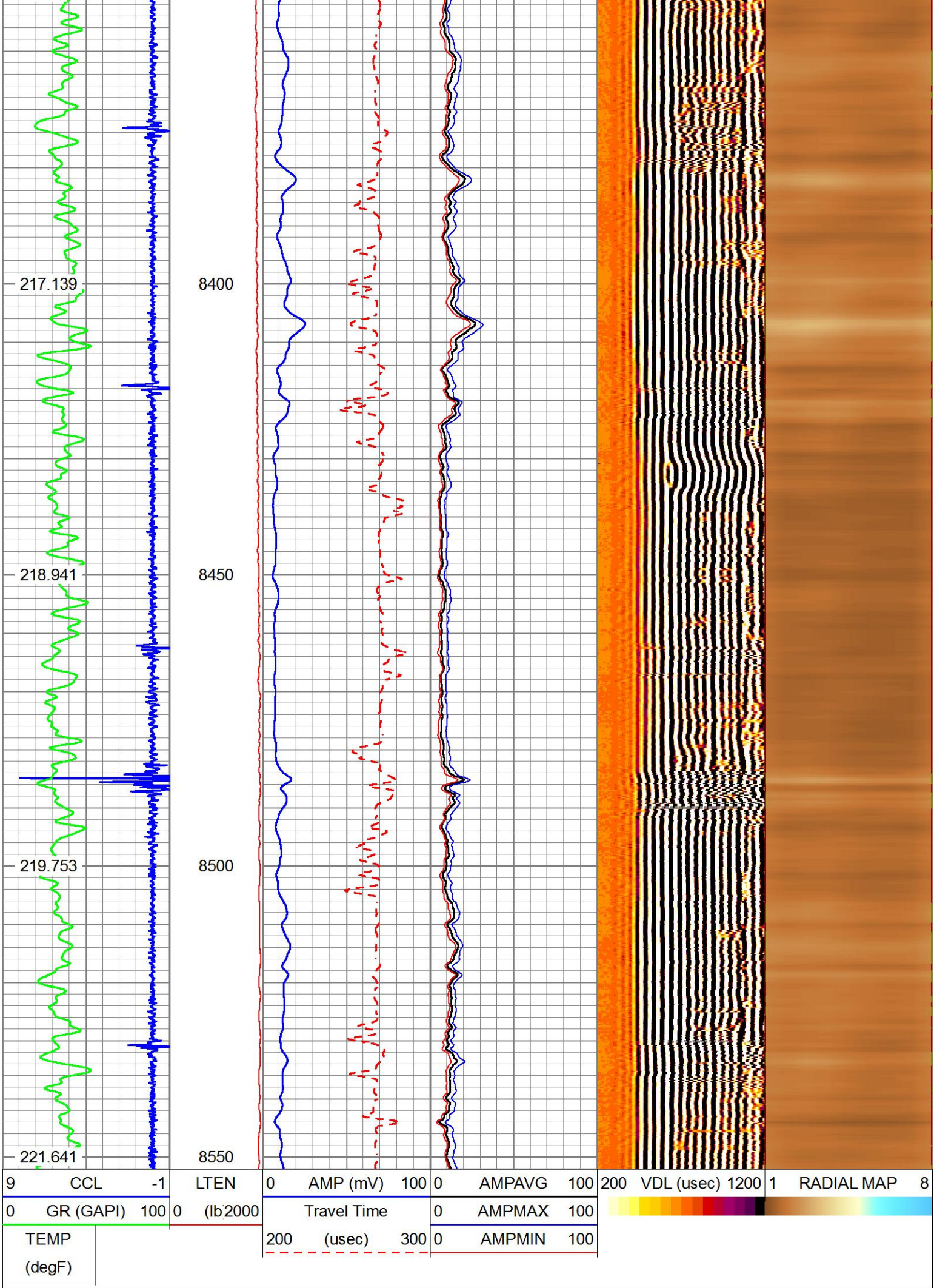
REPEAT PASS

5" = 100'

Database File	extraction coyote trails 33w_15_11n.db
Dataset Pathname	Coyote_Trails/33W-15-11N/run1/RPT1.1
Presentation Format	EXTRAC~1
Dataset Creation	Mon Jul 22 20:49:02 2019
Charted by	Depth in Feet scaled 1:240

9	CCL	-1	LTEN	0	AMP (mV)	100	0	AMPAVG	100	200	VDL (uSec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	100	0	(lb/2000)	Travel Time		0	AMPMAX	100						
	TEMP				200	(uSec)	300	0	AMPMIN	100					
	(degF)														

216	8350
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REPEAT PASS

HALLIBURTON

5" = 100'

Top - Bottom							
BHTEMP_Src	BITSIZE	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MINAMPL
TEMP	in	degF	in	in	lb/ft	mV	mV
	7.875	100	5.5	0.361	20	72	2
MINATTN	MudWgt	PERFS	PPT	SRFTEMP	TDEPTH		
db/ft	lb/gal		usec	degF	ft		
0.8	8.3	0	212	0	0		

Calibration Report	
Database File	extraction coyote trails 33w_15_11n.db
Dataset Pathname	Coyote_Trails/33W-15-11N/run1/RPT1
Dataset Creation	Mon Jul 22 17:27:05 2019

Temperature Calibration Report					
Serial Number:		001			
Tool Model:		T_Temp			
Performed:		Mon Apr 04 13:27:25 2011			
		Reference		Reading	
Low Reference:		0.00	degF	0.00	cps
High Reference:		1.00	degF	1.00	cps
Gain:		0.10			
Offset:		0.00			
Delta Spacing		1			

Gamma Ray Calibration Report	
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Type / Serial:		probe275dig / pr050806			
SHOP CALIBRATION		Tue Nov 01 09:40:24 2005			
Background Calibrator	Counts/Sec.	Gain	Offset	Jig	Units
	79.3				cps
	459.5	0.6312			cps GAPI/cps
PRIMARY VERIFICATION		00:00:00			
Background Calibrator Difference	48.3				cps
	288.5				cps
				240.2	GAPI
BEFORE SURVEY VERIFICATION		00:00:00			
Background Calibrator Difference	47.8				cps
	290.6				cps
				242.8	GAPI
AFTER SURVEY VERIFICATION		00:00:00			
Background Calibrator Difference	35.8				cps
	286.1				cps
				250.2	GAPI

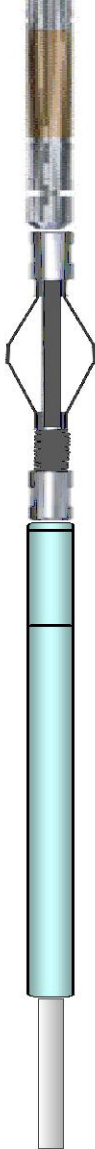
Segmented Cement Bond Log Calibration Report	
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Serial Number:		051010			
Tool Model:		Probe			
Calibration Casing Diameter:		5.500		in	
Calibration Depth:		7684.985		ft	

Master Calibration, performed Mon Jul 22 17:24:06 2019:							
Raw (v)		Calibrated (mv)		Results			
Zero	Cal	Zero	Cal	Gain	Offset		

3'	0.012	0.541	1.000	72.000	134.177	-0.559
CAL	0.012	0.660				
5'	0.017	0.246	1.000	72.000	310.369	-4.372
SUM						
S1	0.011	0.641	0.000	72.000	114.296	-1.226
S2	0.010	0.610	0.000	72.000	120.105	-1.248
S3	0.011	0.576	0.000	72.000	127.397	-1.345
S4	0.011	0.554	0.000	72.000	132.482	-1.423
S5	0.011	0.542	0.000	72.000	135.567	-1.519
S6	0.011	0.534	0.000	72.000	137.748	-1.549
S7	0.011	0.538	0.000	72.000	136.752	-1.559
S8	0.011	0.564	0.000	72.000	130.115	-1.415
Internal Reference Calibration, performed Tue Oct 11 09:01:28 2005:						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	0.660	1.000	0.000
Air Zero Calibration, performed Mon Jul 22 15:56:42 2019:						
	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	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1-7/16 (12345678) Monocable Head Assembly	1.28	1.44	1.50
			CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
			RBT_PRB275-Probe (051010) Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00
WVFCAL	11.94					
WVF3FT	11.94					

WVF5FT	9.94		CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
CCL	5.40					
GR	4.02		GR_PRB275-probe275dig (pr050806) Probe Digital Gamma CCL	4.75	2.75	57.00
TEMP	0.42		TEMP-T_Temp (001) Titan 1.375 Temp Tool	1.48	1.38	5.00
Dataset: extraction coyote trails 33w_15_11n.db: Coyote_Trails/33W-15-11N/run1/MAIN1 Total length: 21.59 ft Total weight: 193.50 lb O.D.: 2.75 in						

Company	EXTRACTION OIL & GAS INC				
Well	COYOTE TRAILS 33W-15-11N				
Field	WATTENBERG				
County	WELD	State	CO		
HALLIBURTON		RADIAL CEMENT			BOND LOG