



COMPLETION SOLUTIONS

**RADIAL CEMENT BOND
GAMMA RAY C.C.L/V.D.L.
LOG**

Company CIVITAS RESOURCES
Well KING 03-65 # 28-29 02AH
Field DJ HORIZONTAL NIOBRARA
County ADAMS State COLORADO

Location
API# 05-001-10565
(NE/SE) SEC 28 TWN 3S RNG 65W
1798 FSL 435' FEL

Permanent Datum GROUND LEVEL Elevation 5585'
Log Measured From KELLY BUSHING (25' A.G.L.)
Drilling Measured From KELLY BUSHING

Other Services
NONE
Elevation
K.B. 5610'
D.F. 5609'
G.L. 5585'

Date 8 JUNE, 2024

Run Number	ONE	
Depth Driller	18345'	
Depth Logger	7850'	
Bottom Logged Interval	7847'	
Top Log Interval	SURFACE	
Casing Size	5.5"	
Type Fluid	WATER	
Density / Viscosity	N/A	
Max. Recorded Temp.	N/A	
Estimated Cement Top	EST CEM @ 200'	
Time Well Ready	R.O.A.	
Time Logger on Bottom	9:46A.M.	
Equipment Number	200128	
location	STERLING, CO	
Recorded By	ADAM GARDNER	
Witnessed By	JOSH JOHNSON	

Vehicle Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36#	0'	3369'
Prot. String				
Production String	5.5"	20#	0'	18339'
Liner				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

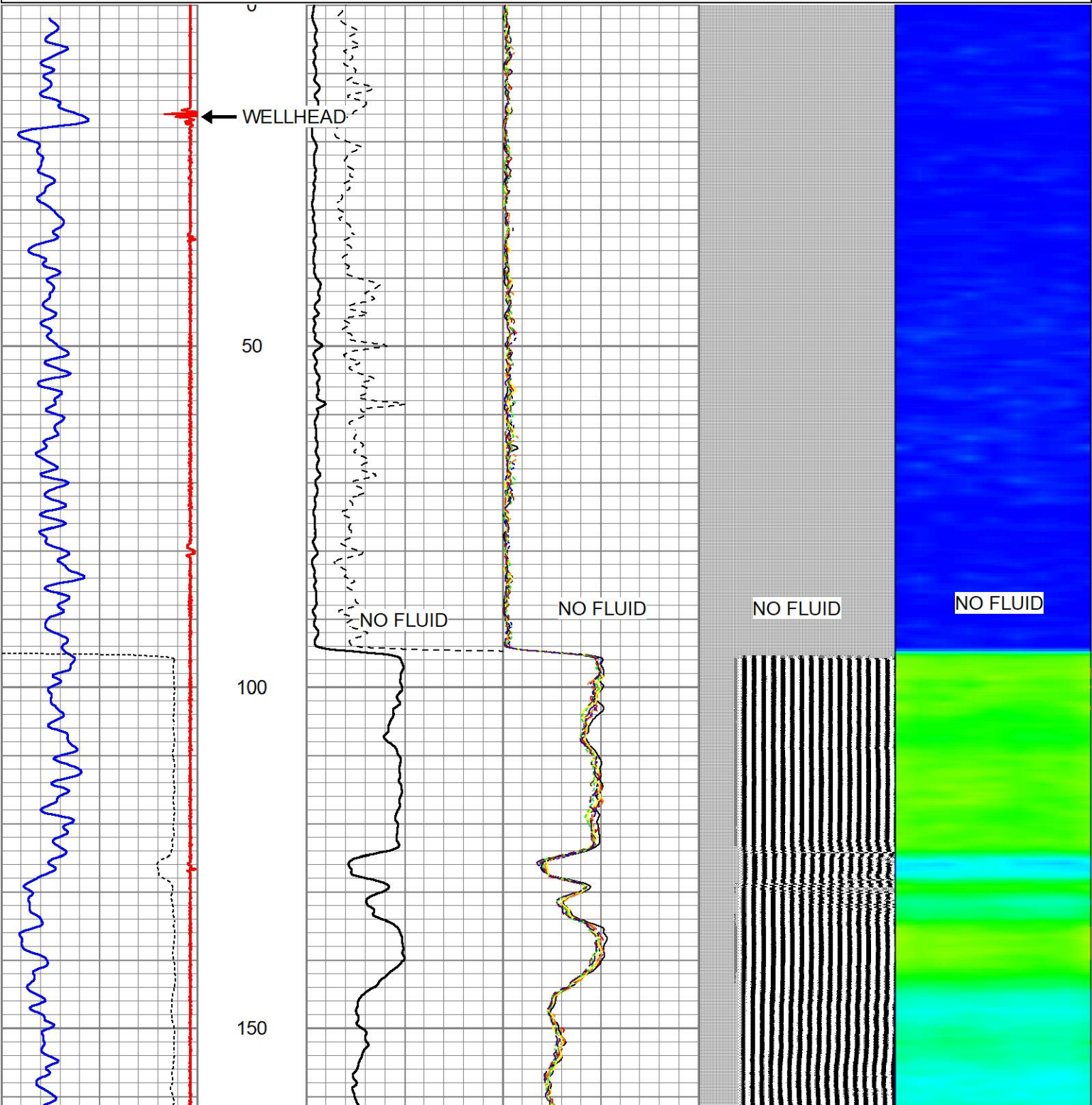
Comments

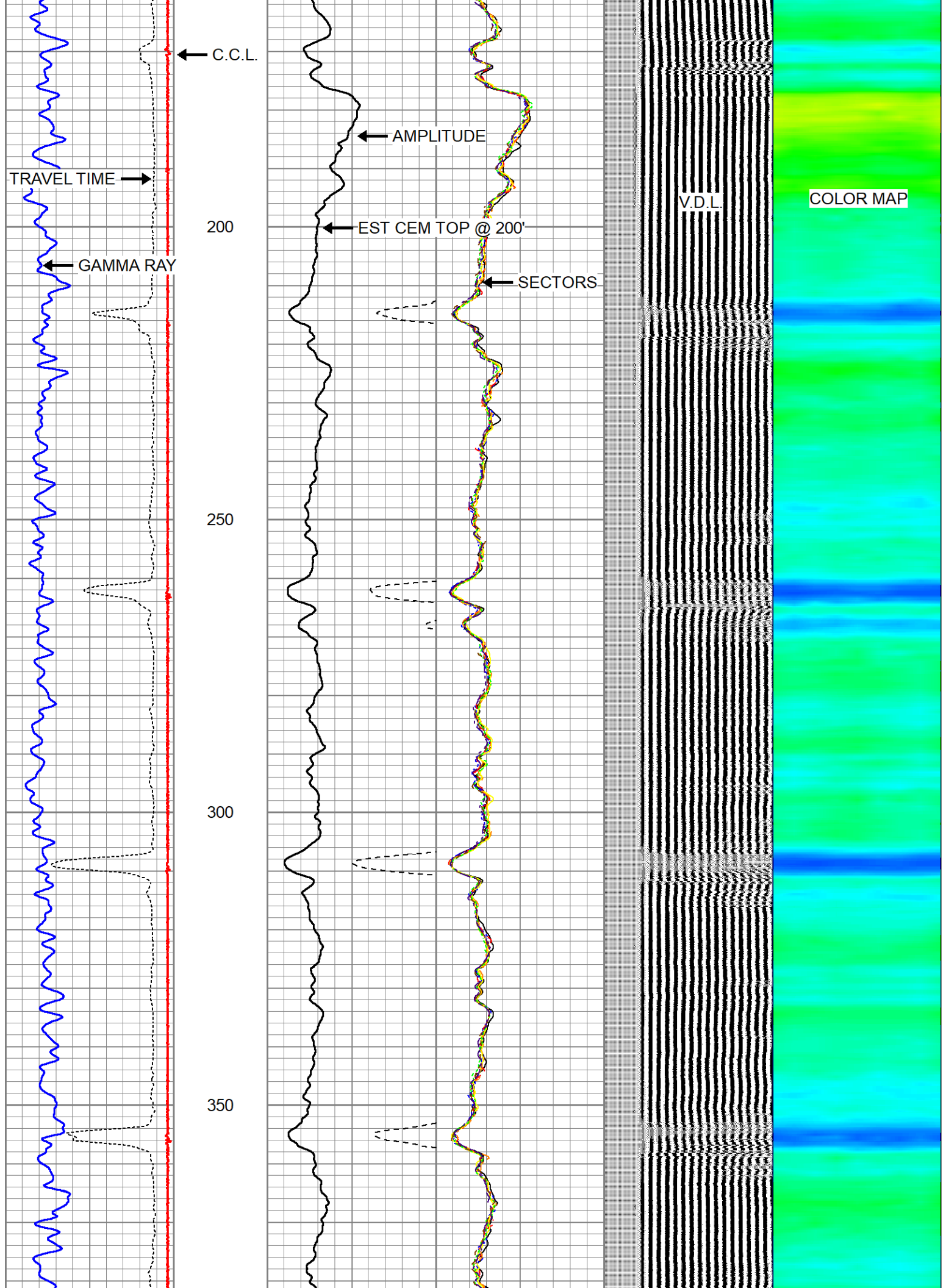
LOG RAN WITH 25' K.B.
LOG RAN WITH 0 P.S.I.
EST CEM @ 200'
MARKER JOINT @ 7453'-7476'
THANK YOU FOR USING NEXTIER SOLUTIONS!!

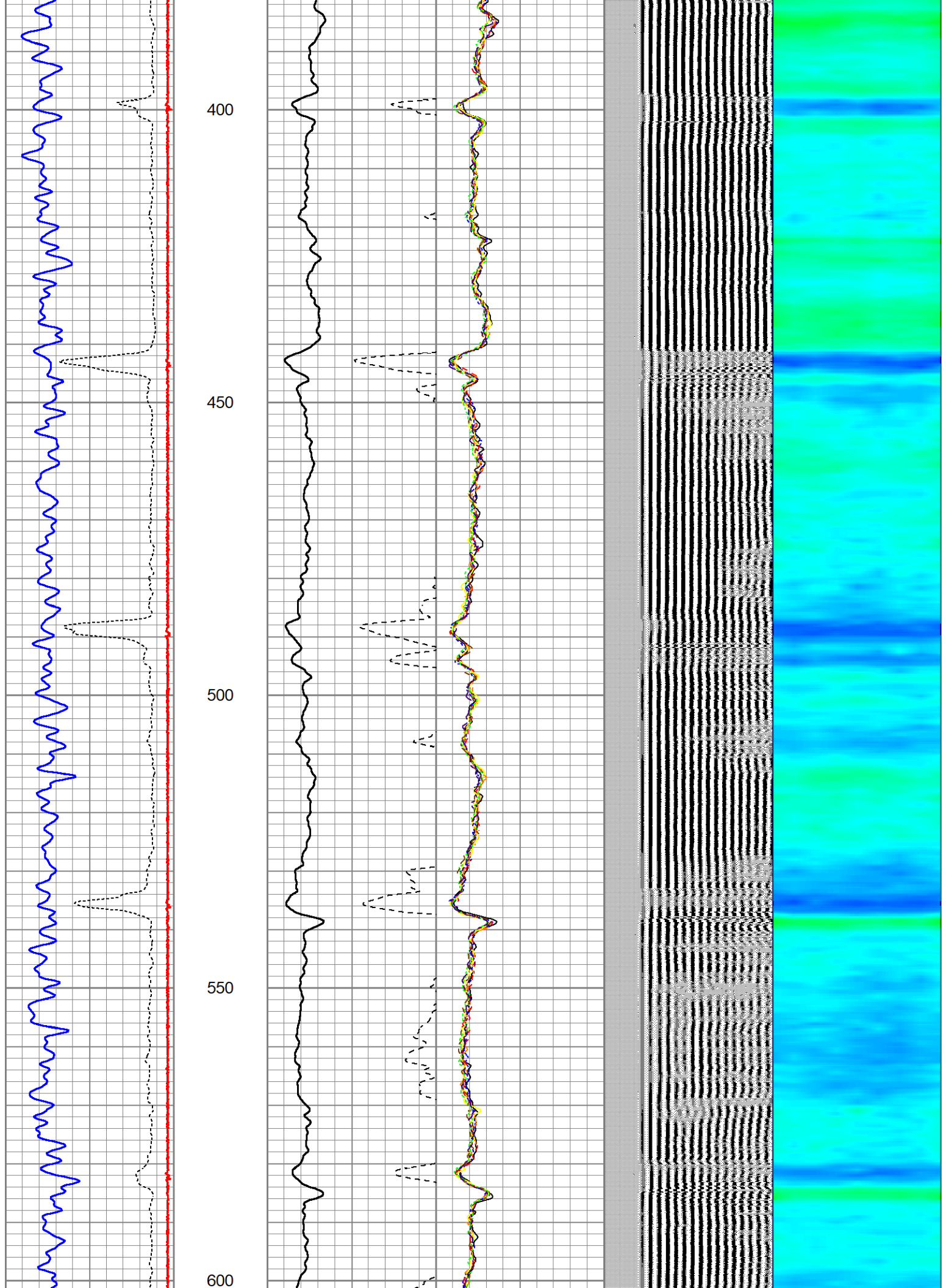


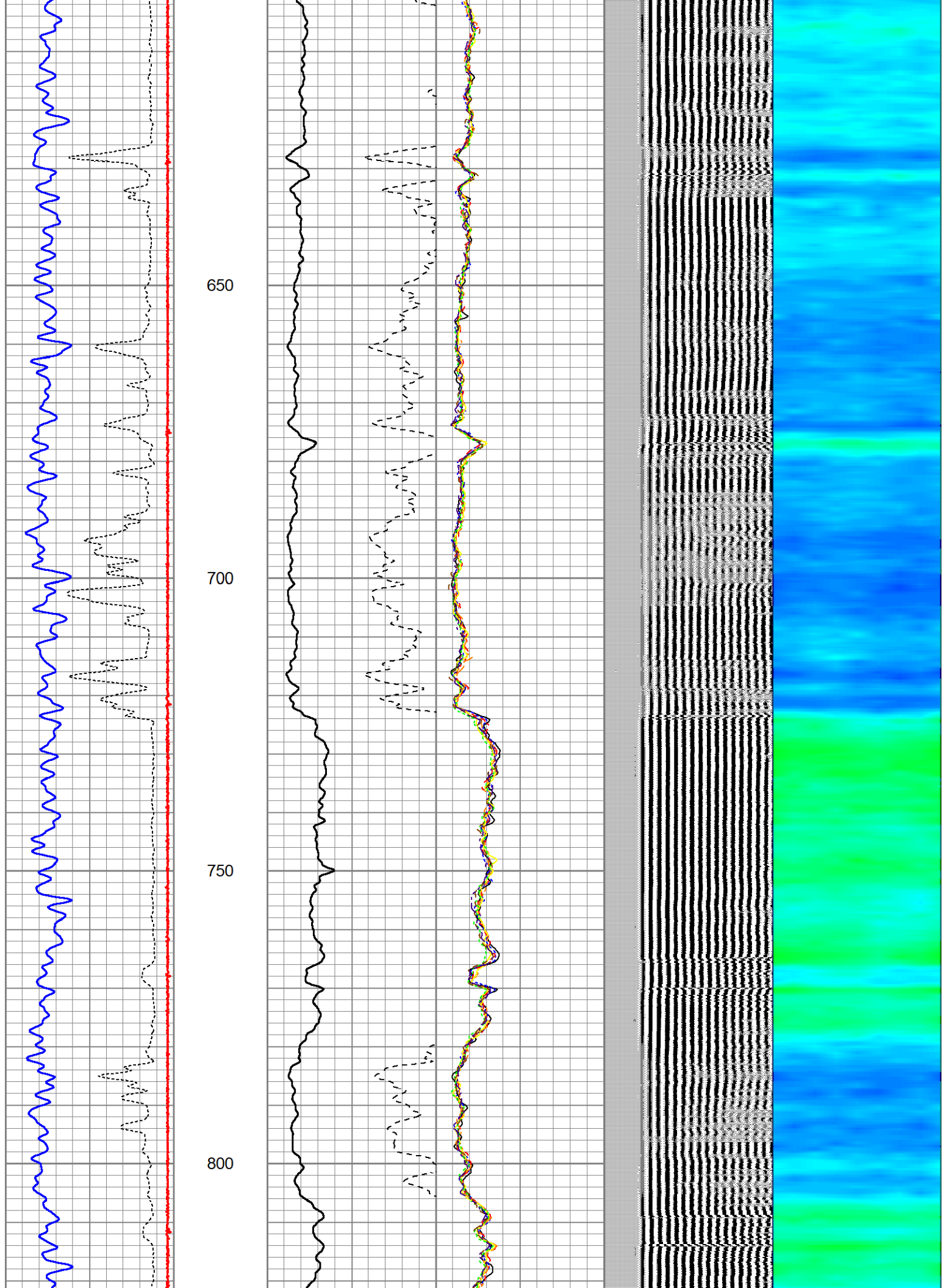
MAIN PASS

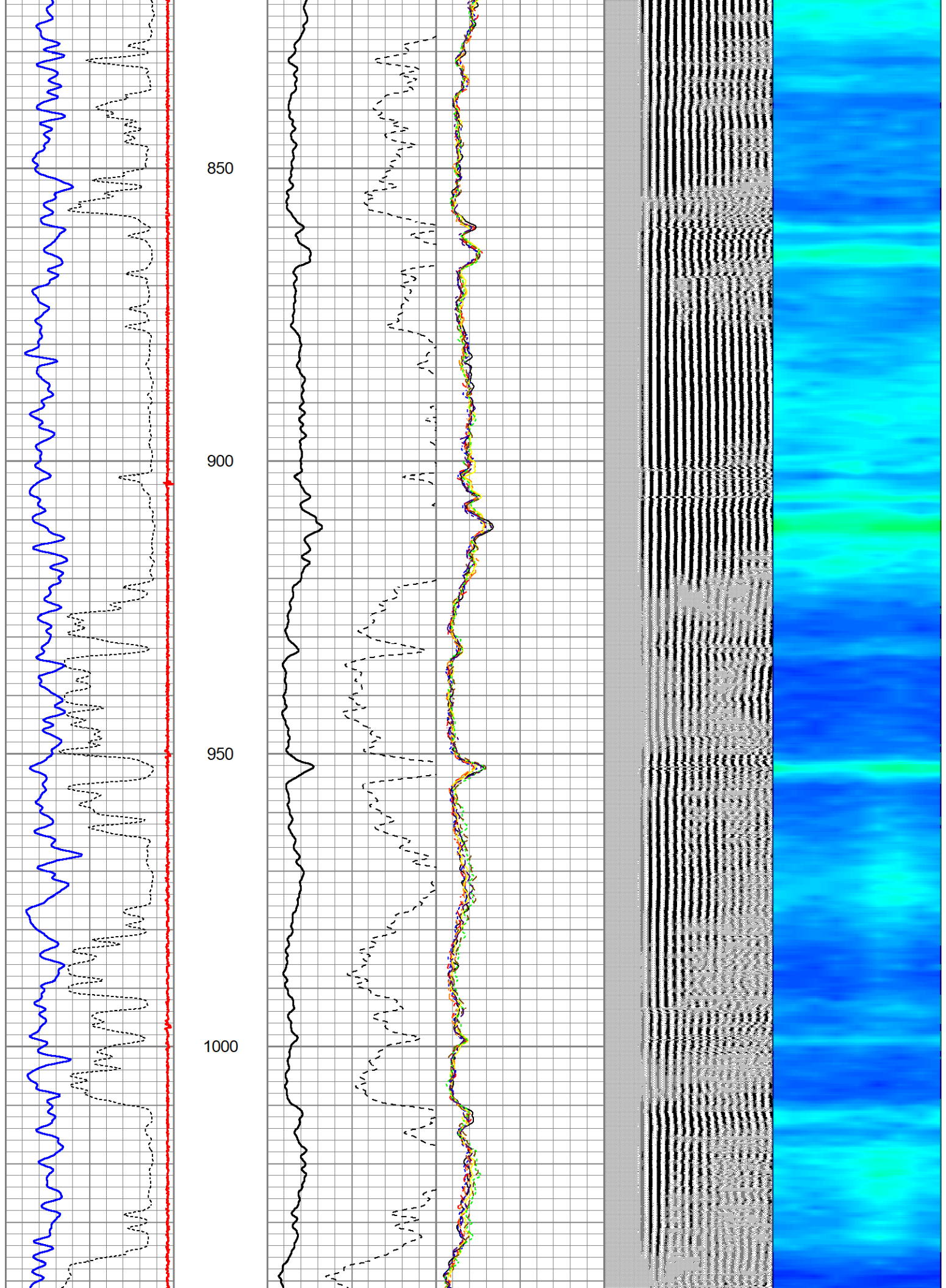
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0	GR (GAPI)	150	AMPLIFIED AMP3			0	AMPS2	100						
340	TT3 (usec)	260	0	(mV)	20	0	AMPS3	100						
						0	AMPS4	100						
						0	AMPS5	100						
						0	AMPS6	100						
						0	AMPS7	100						
						0	AMPS8	100						

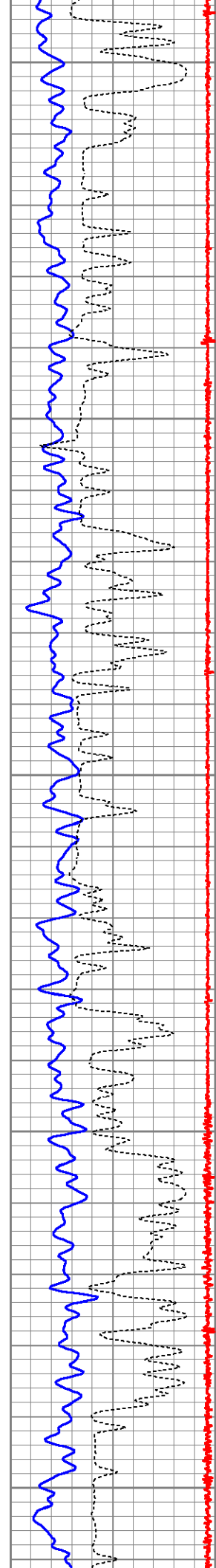












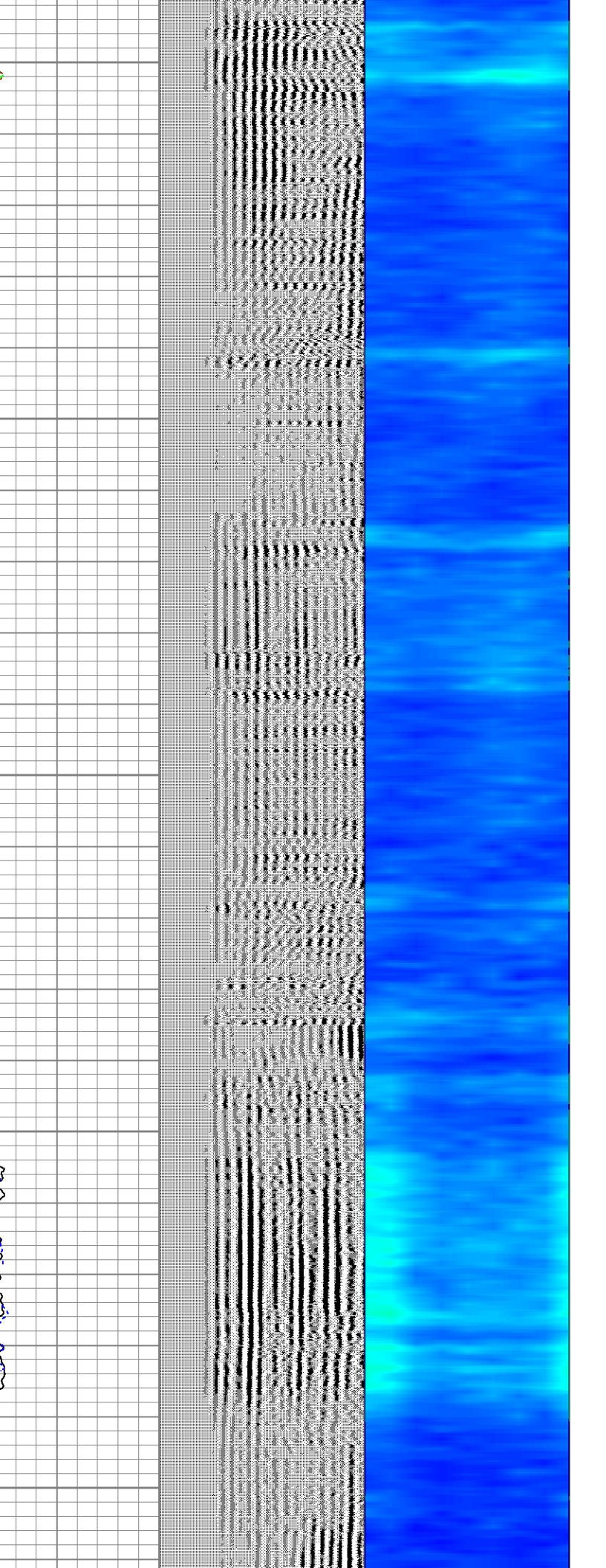
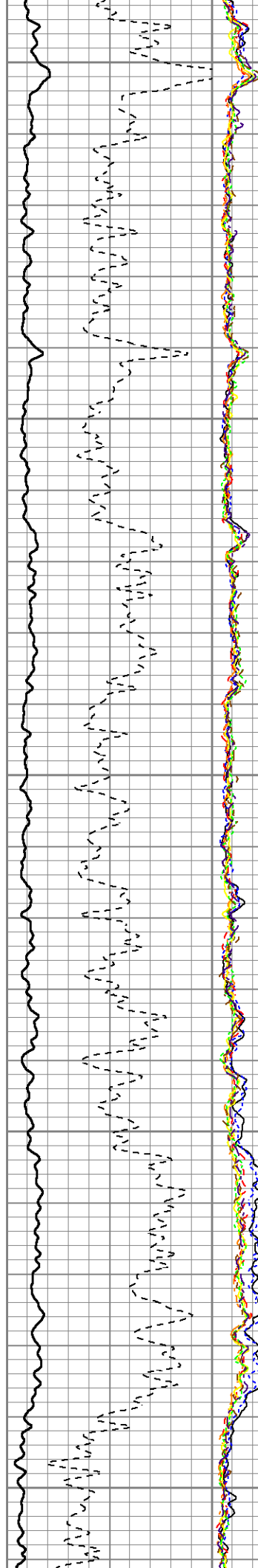
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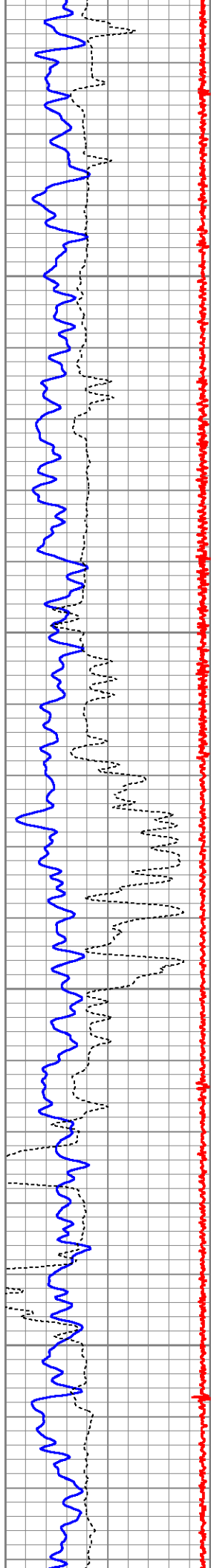
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1150

1200

1250



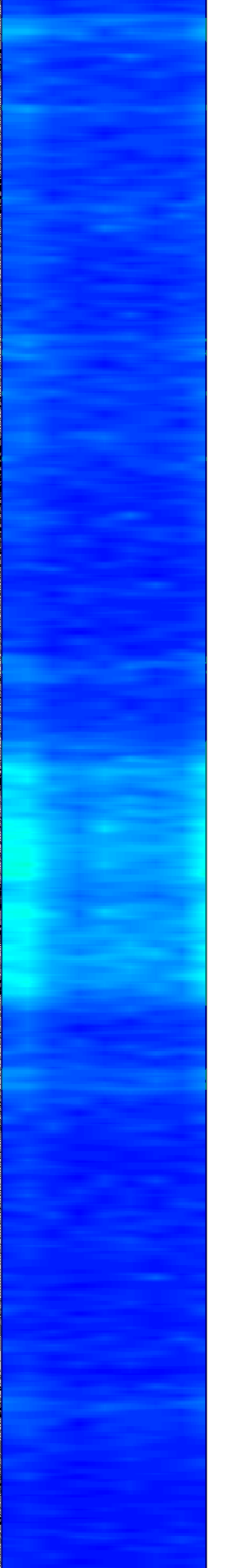
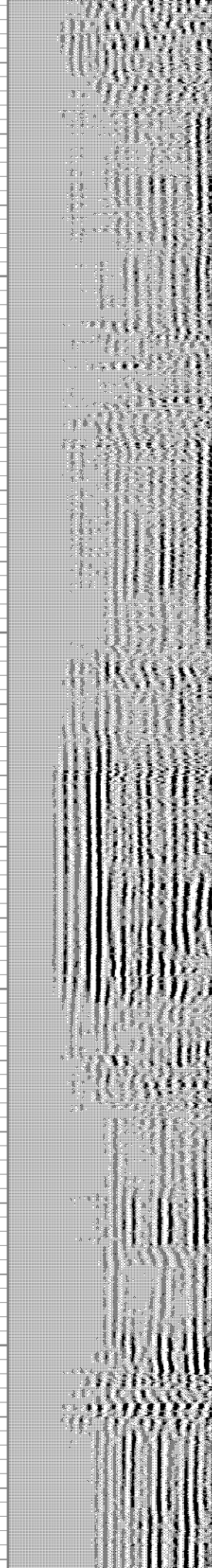
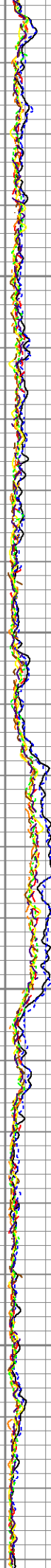
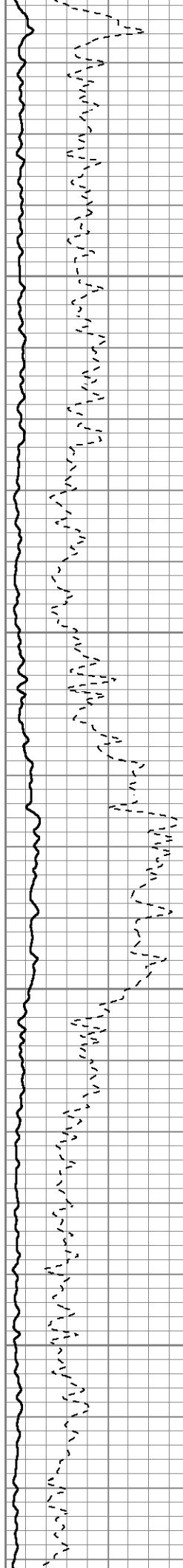


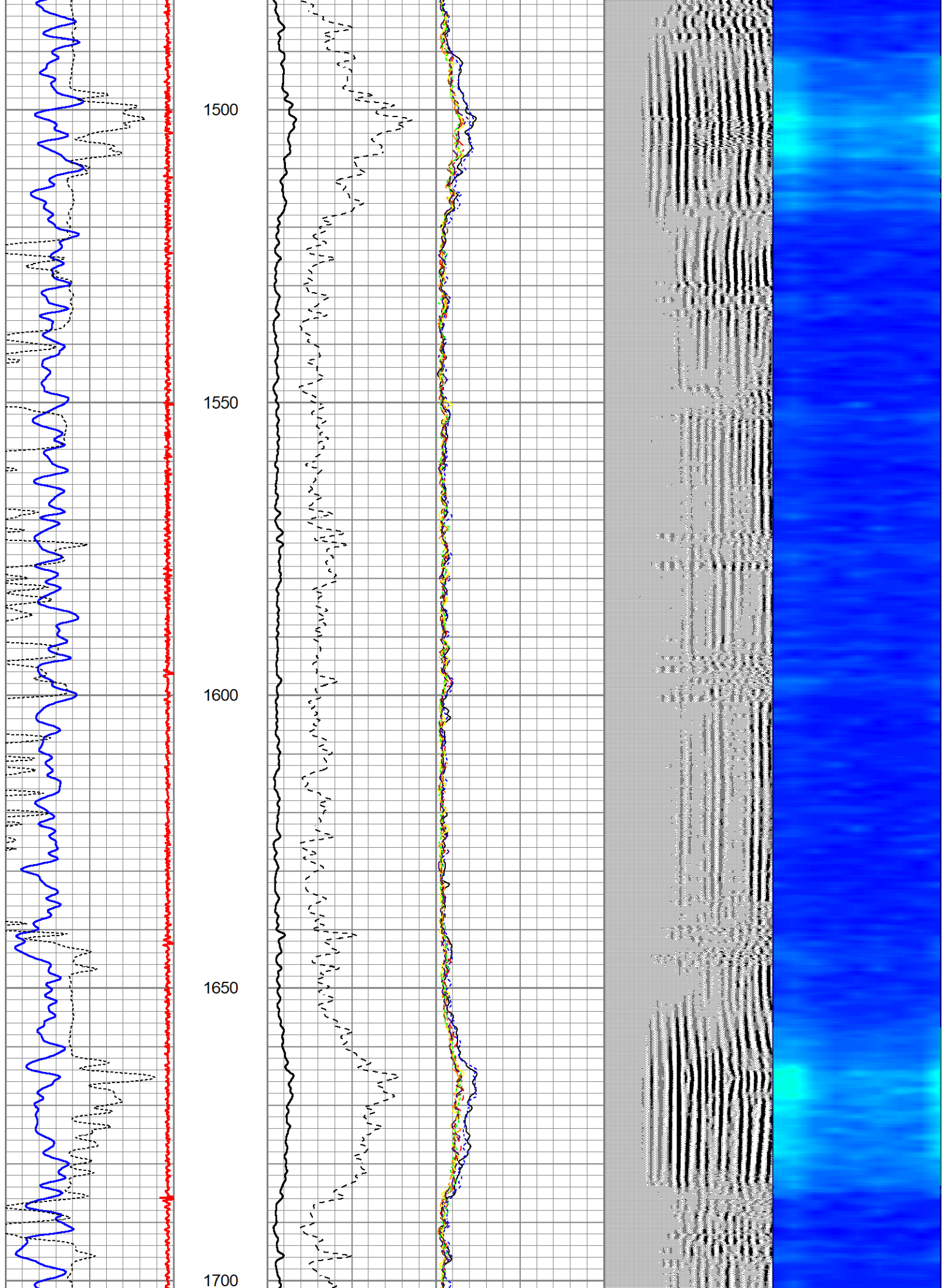
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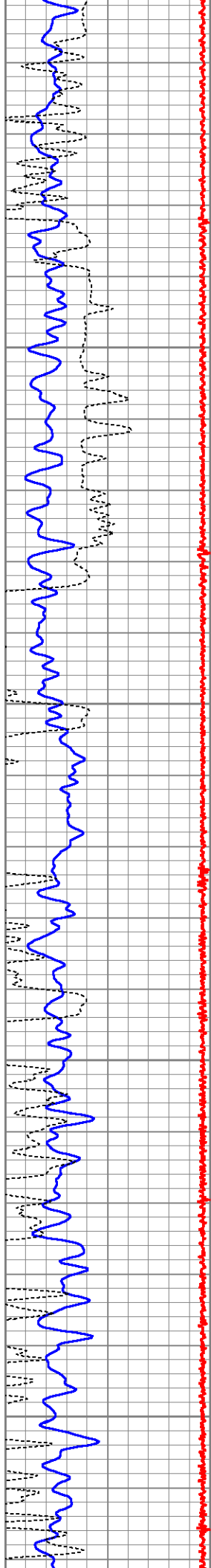
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1450





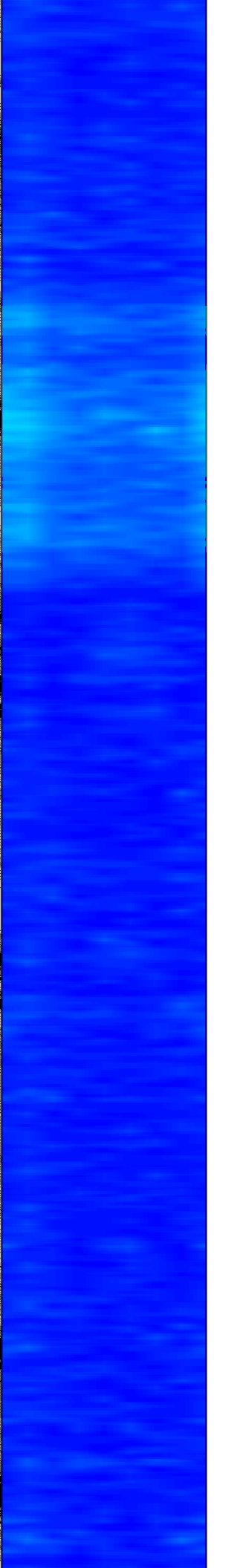
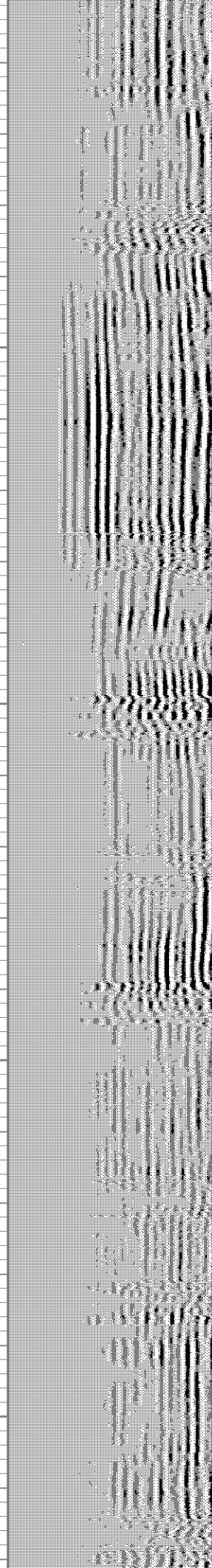
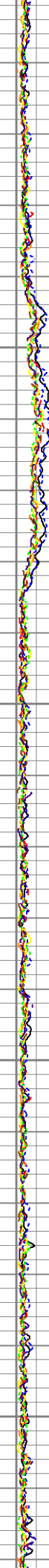
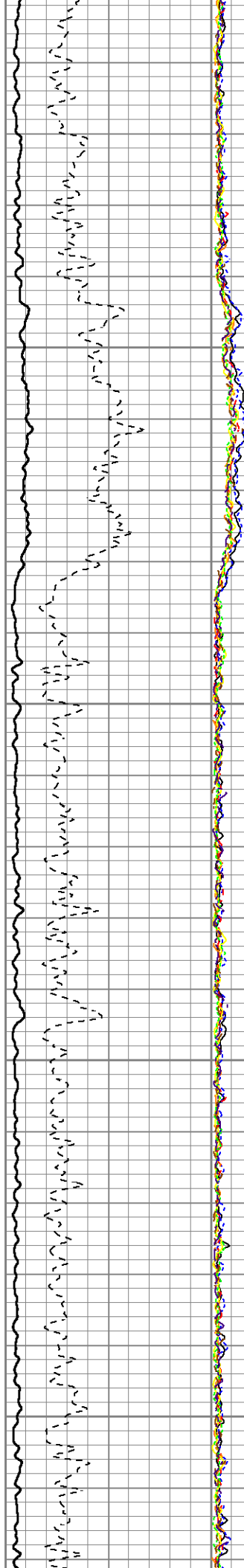


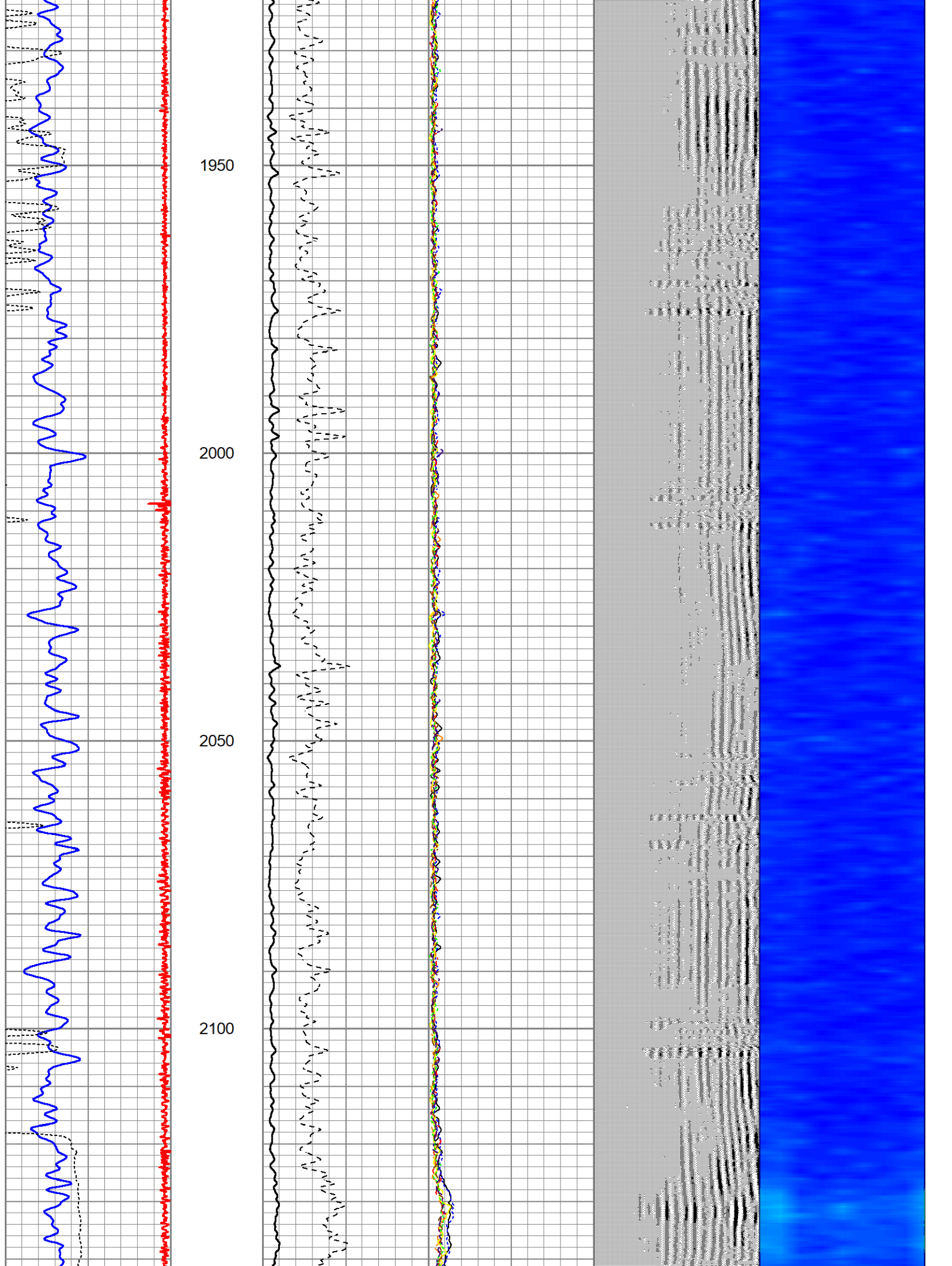
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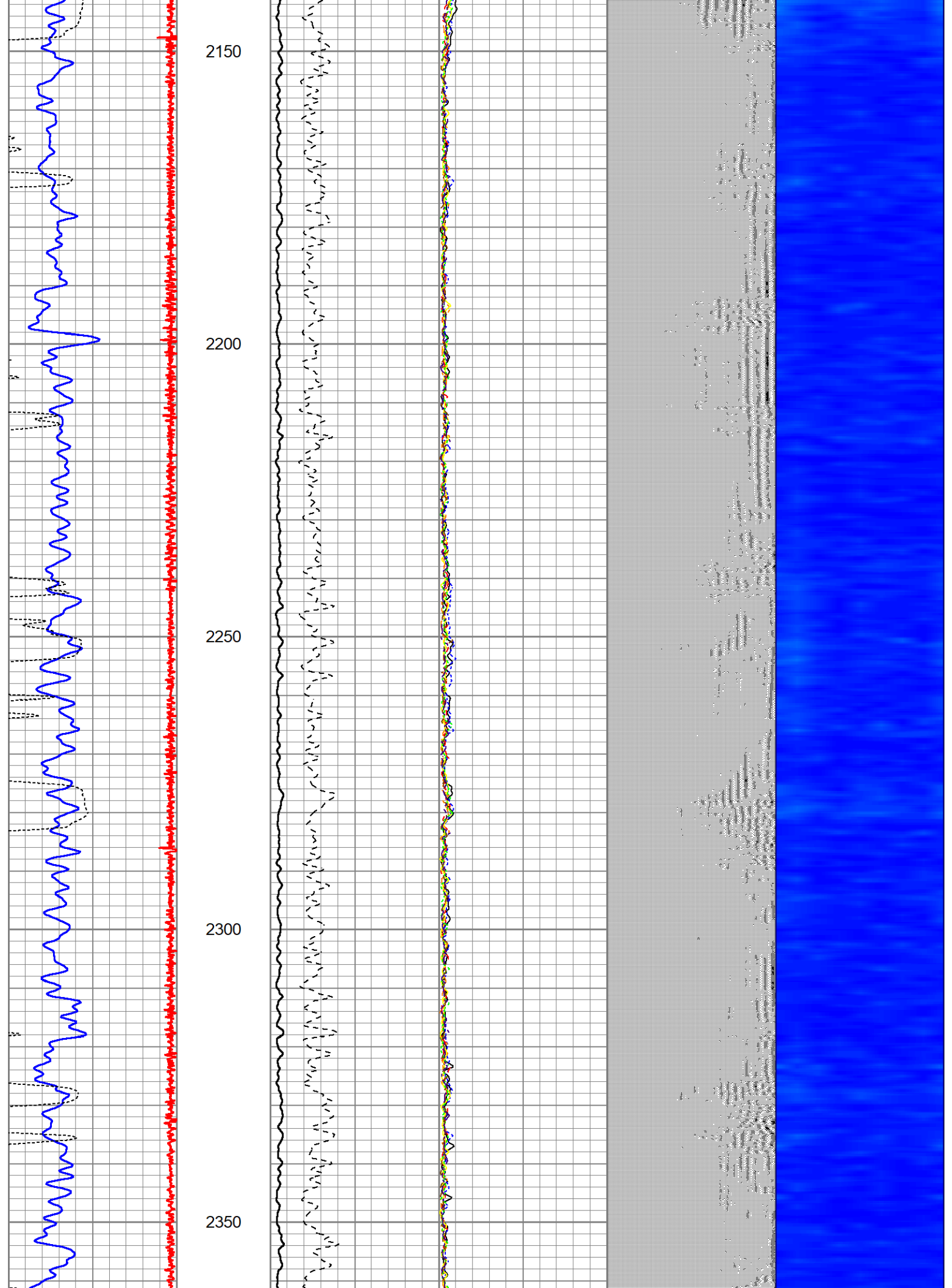
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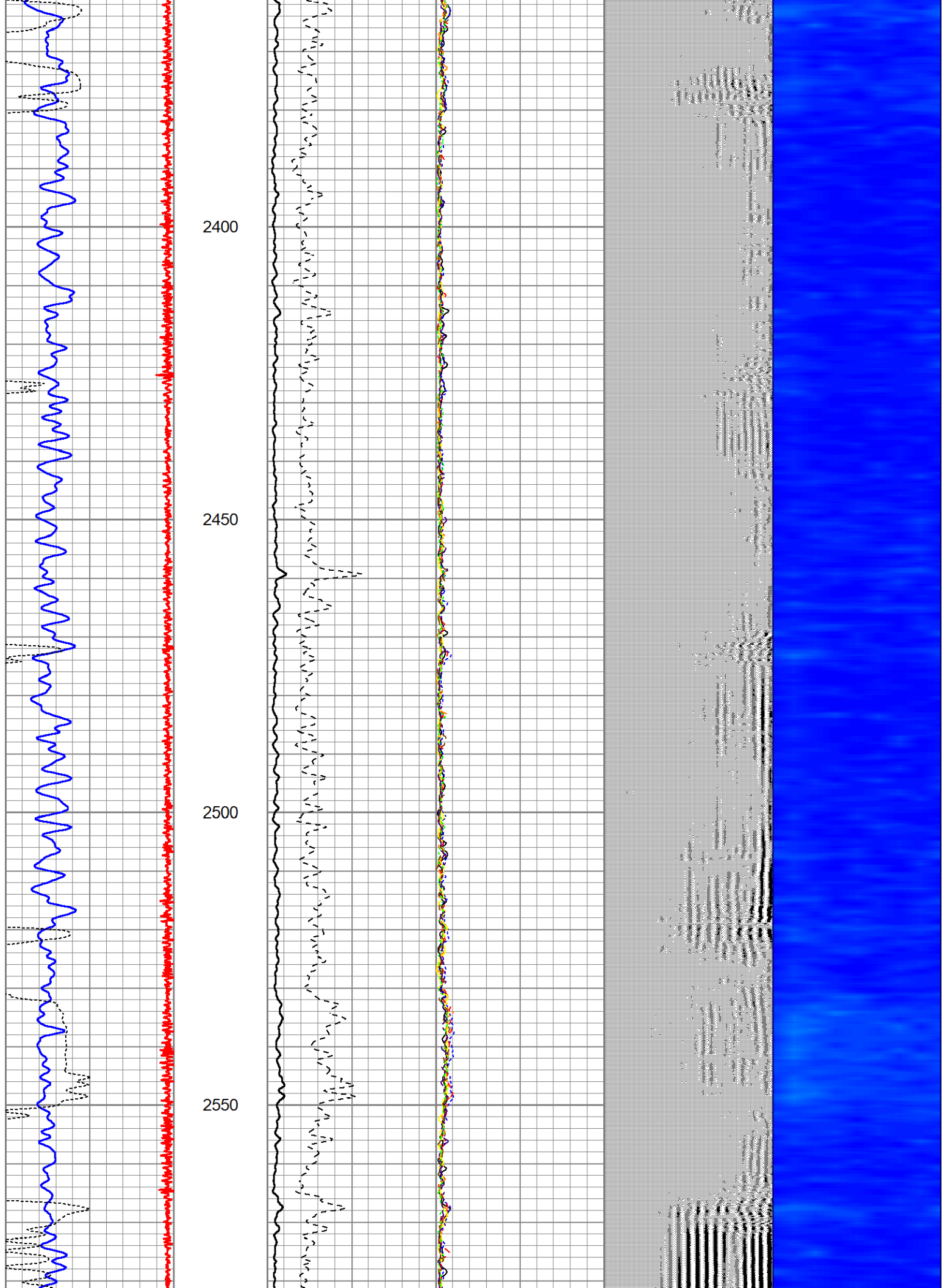
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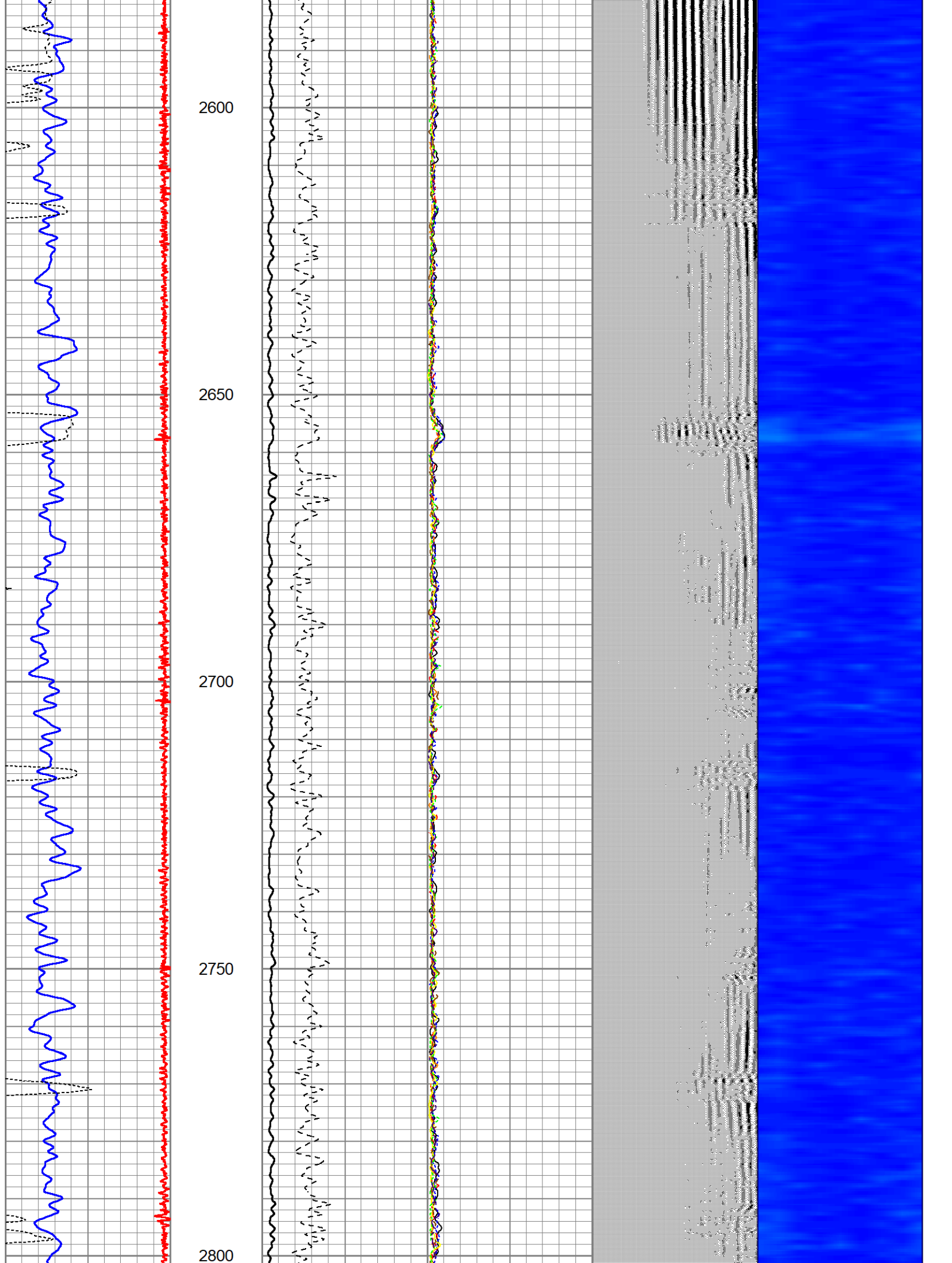
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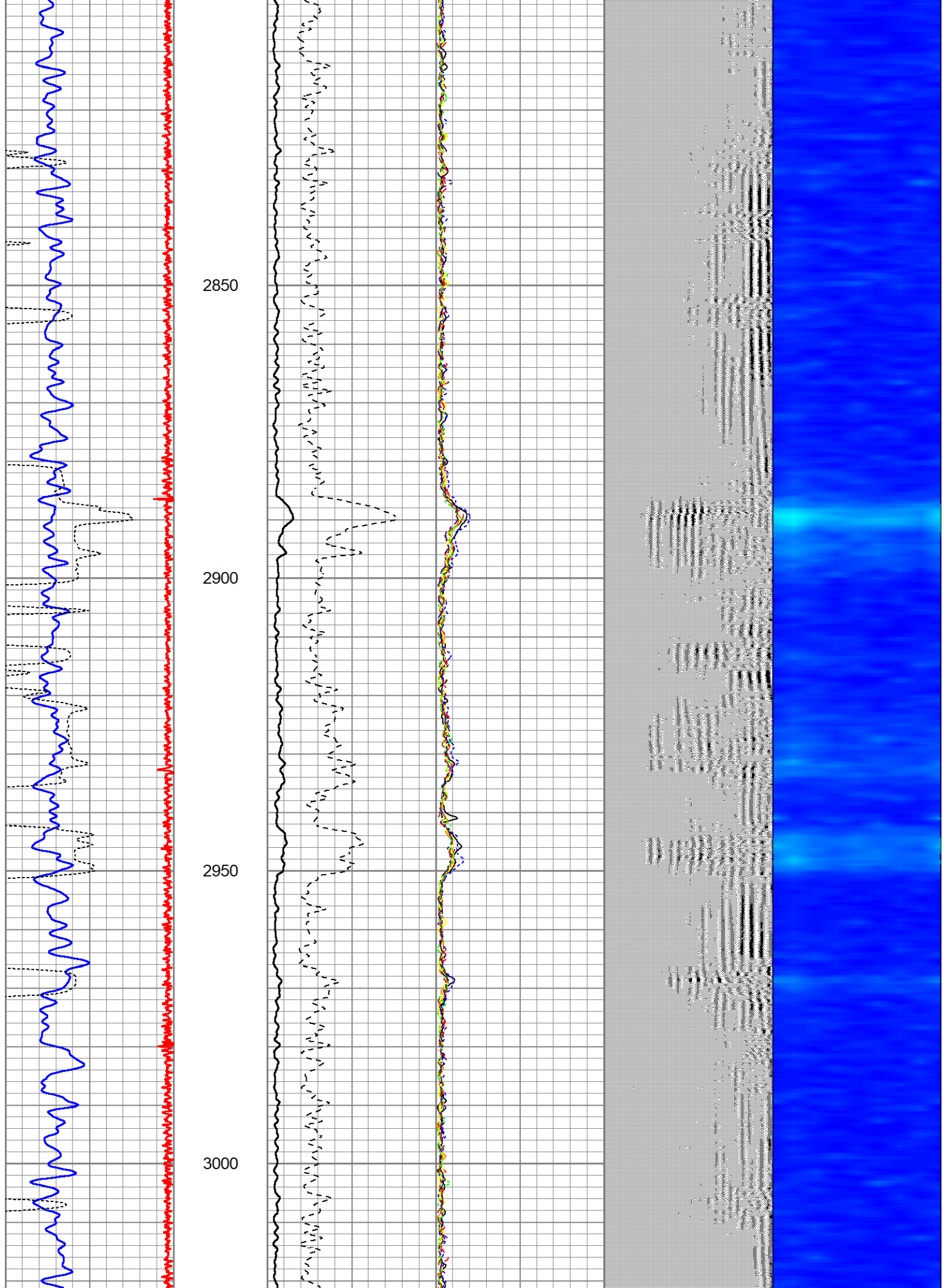


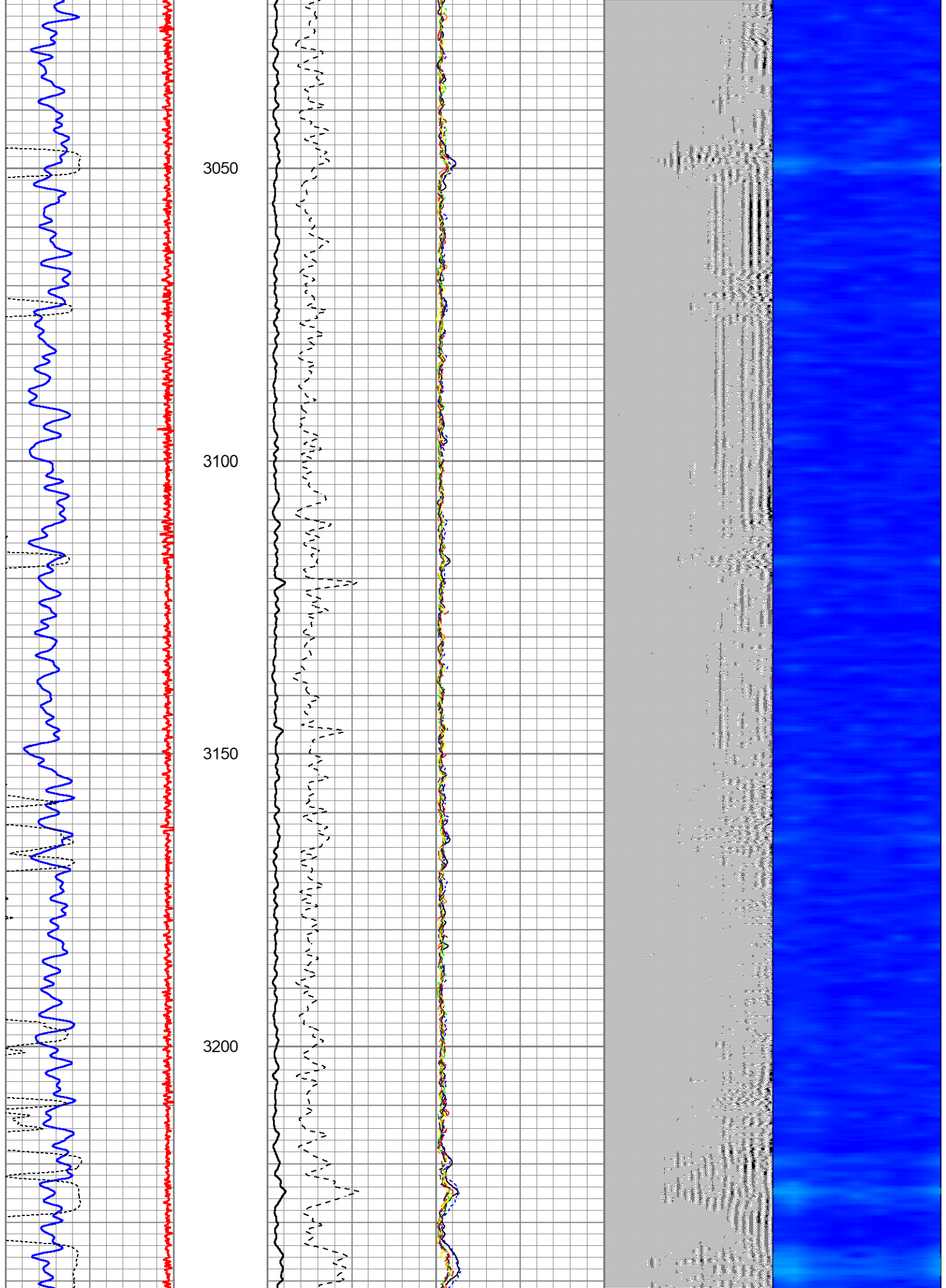


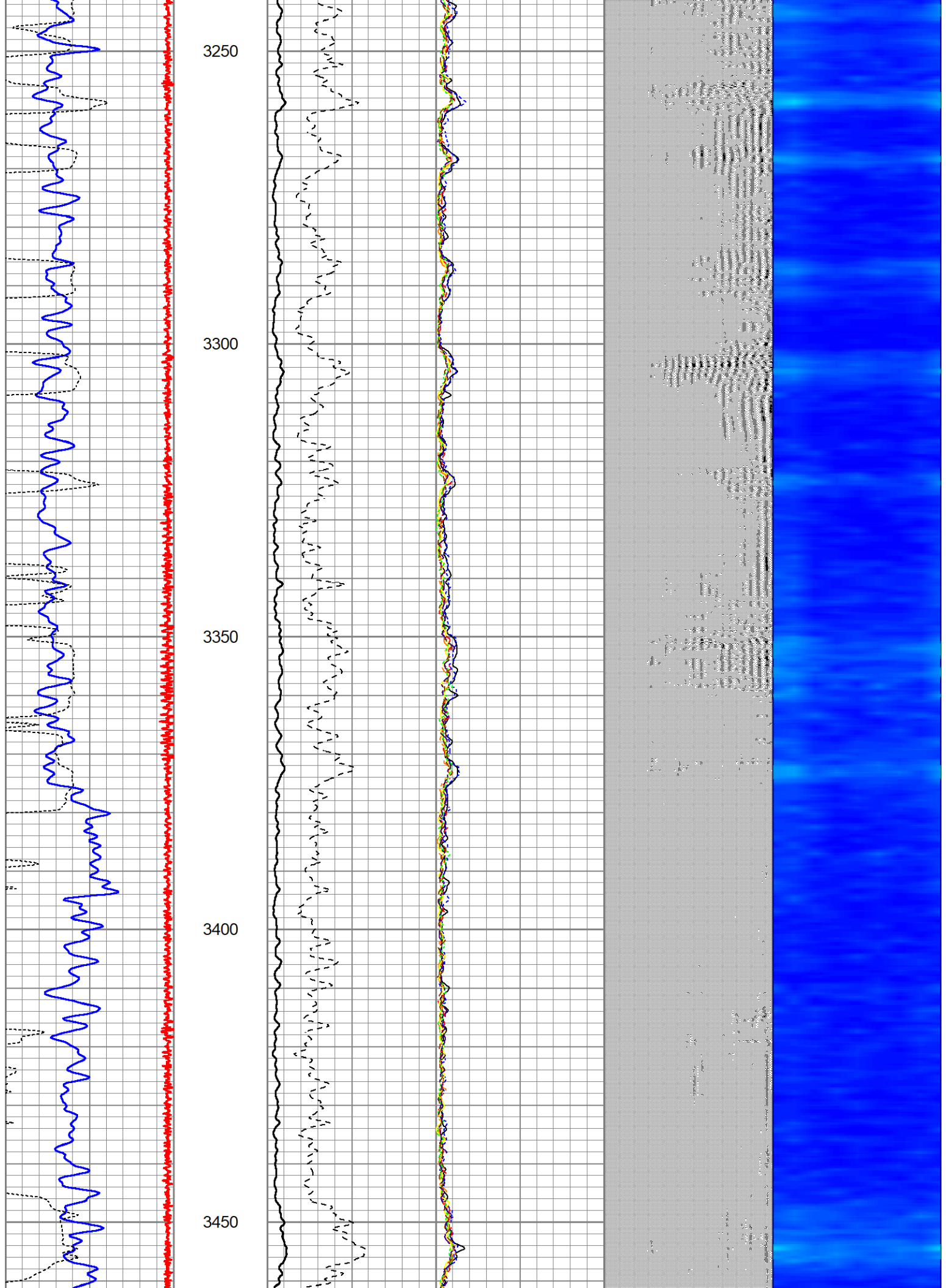


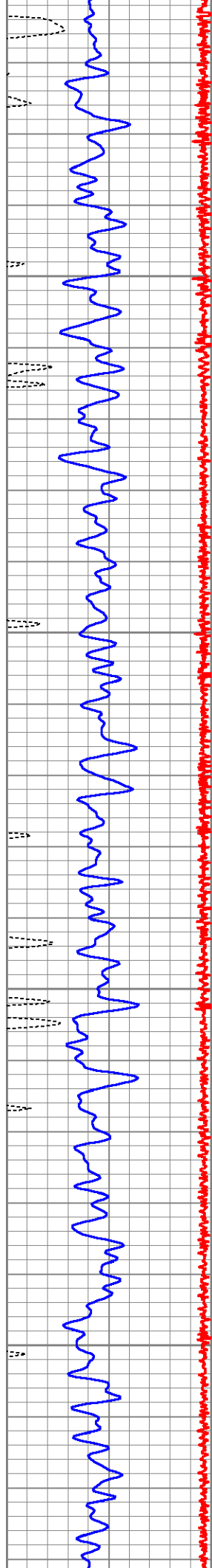










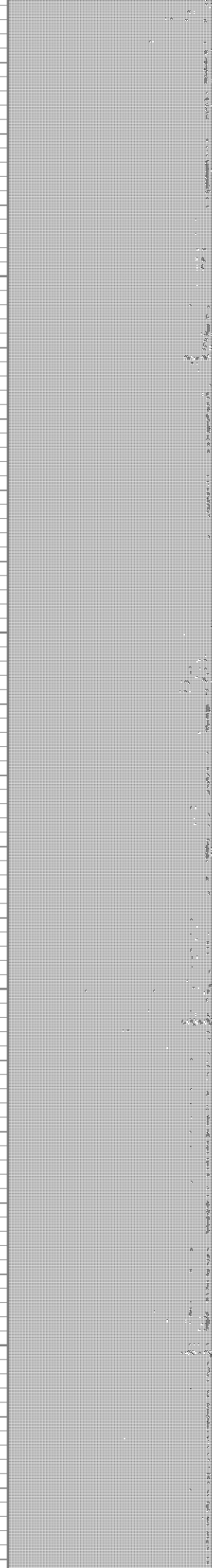
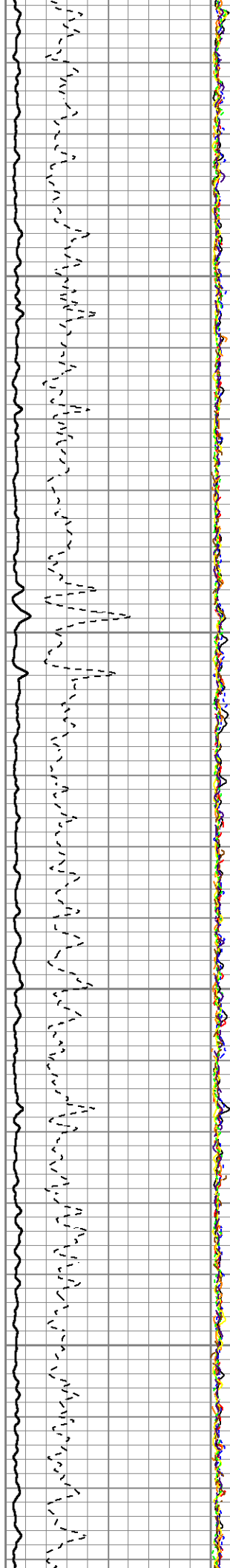


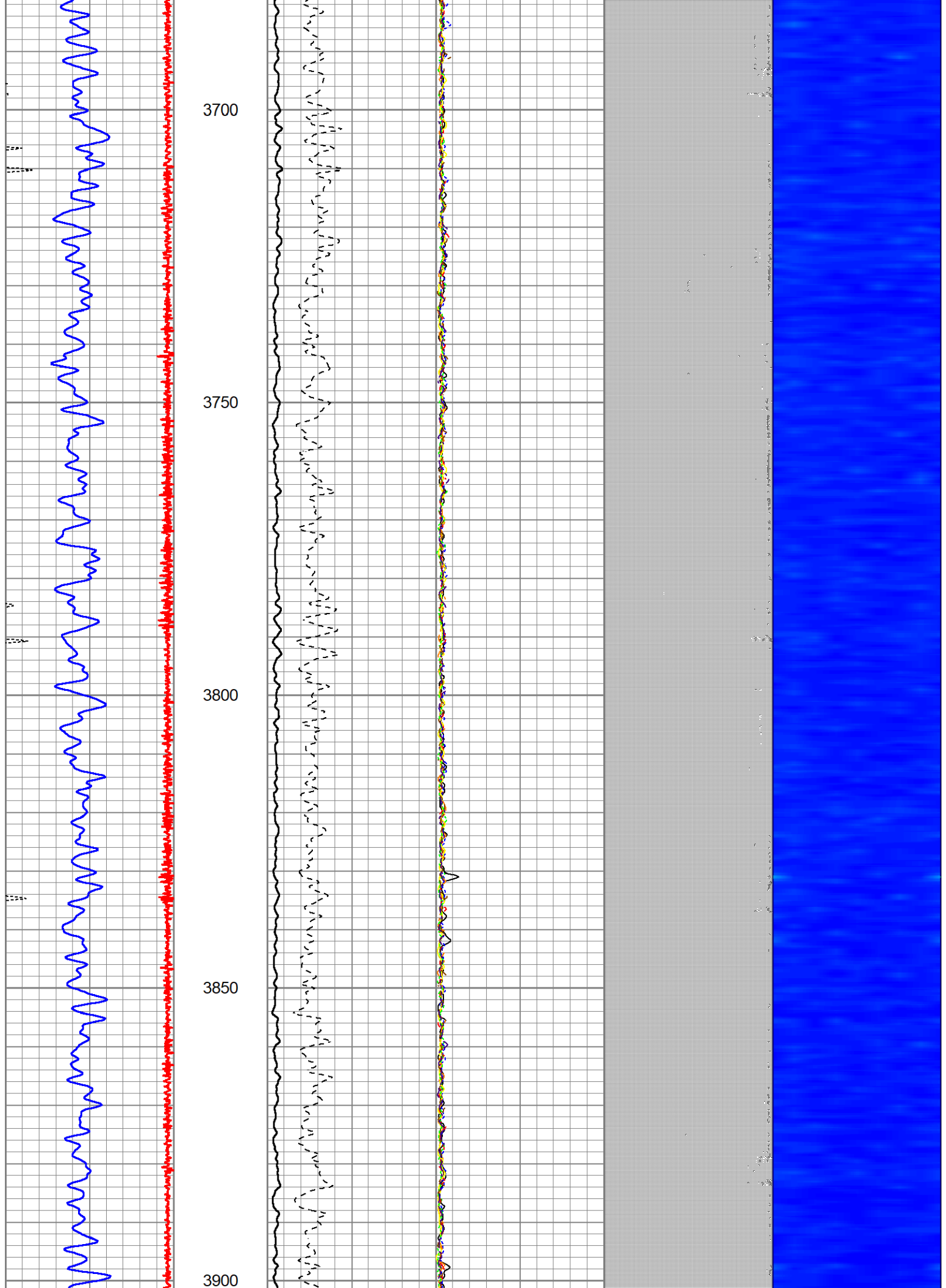
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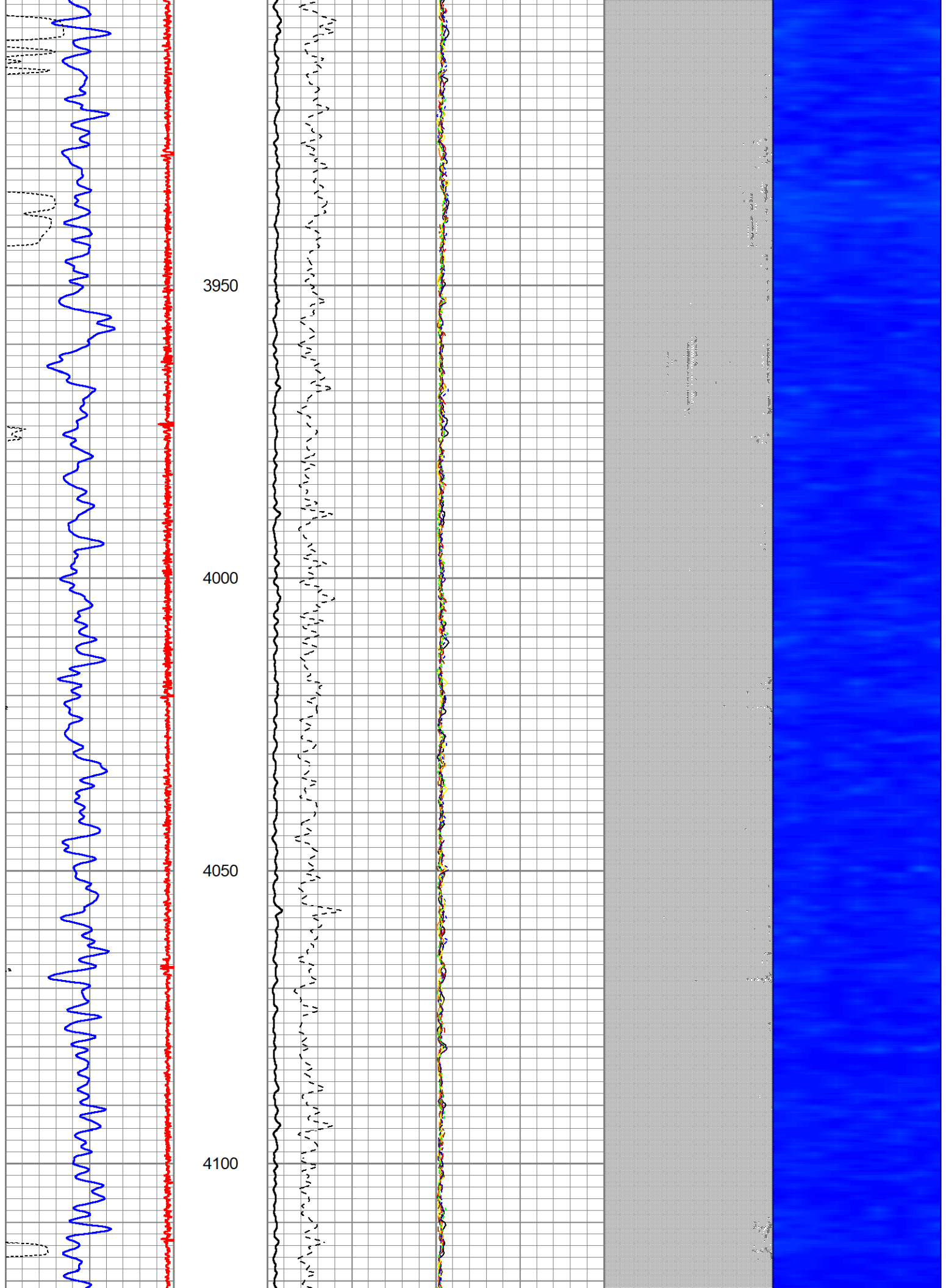
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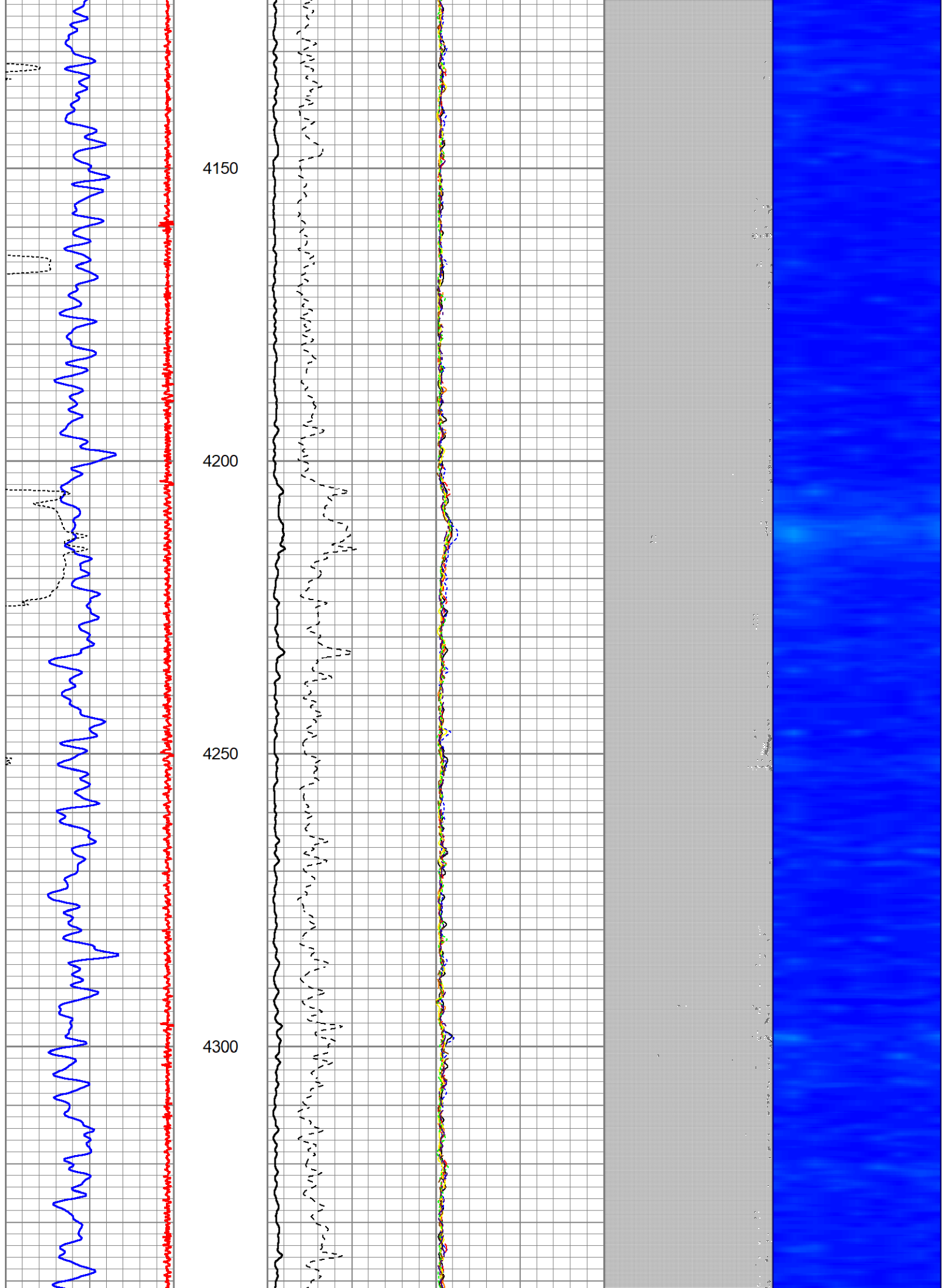
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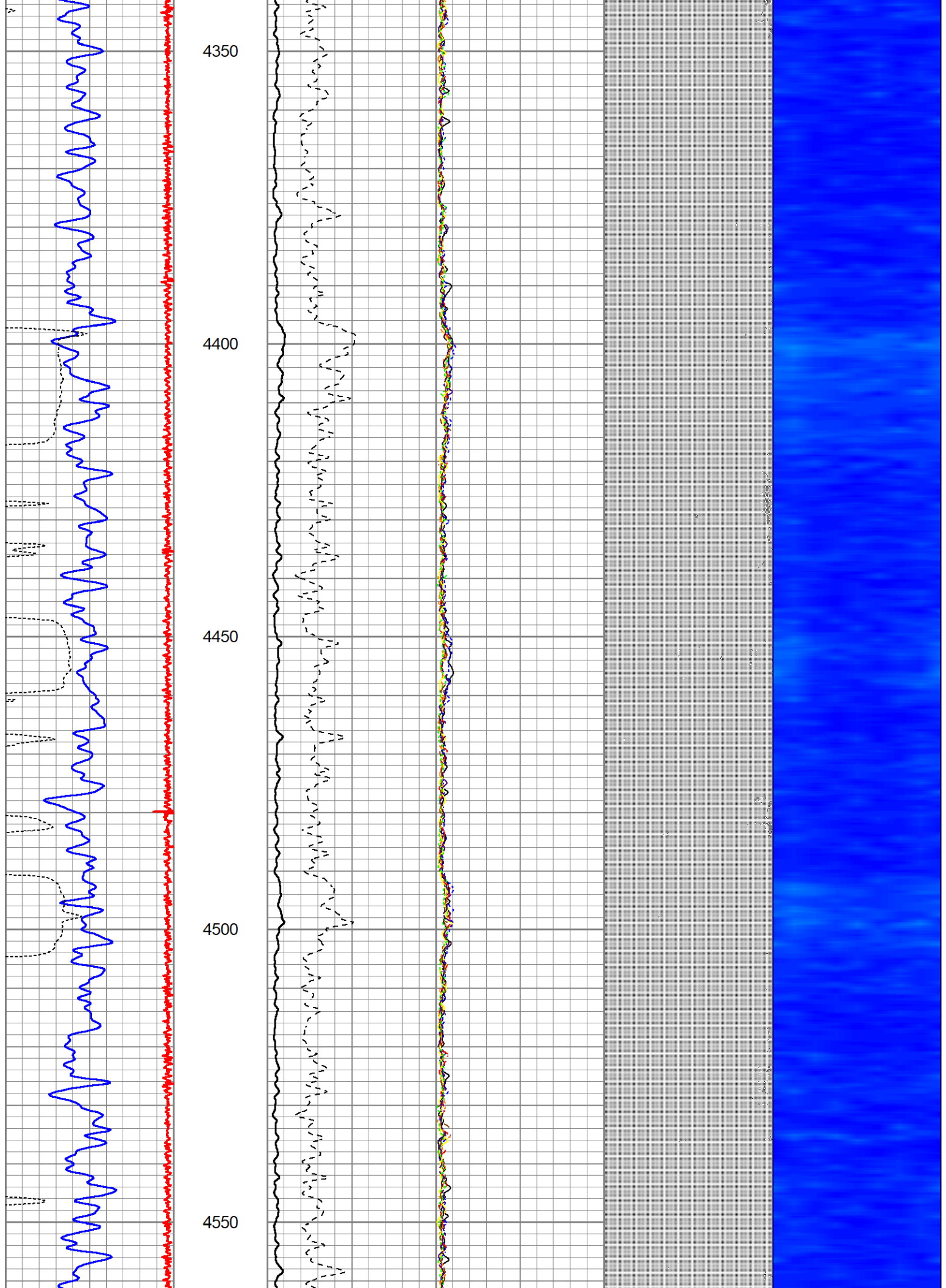
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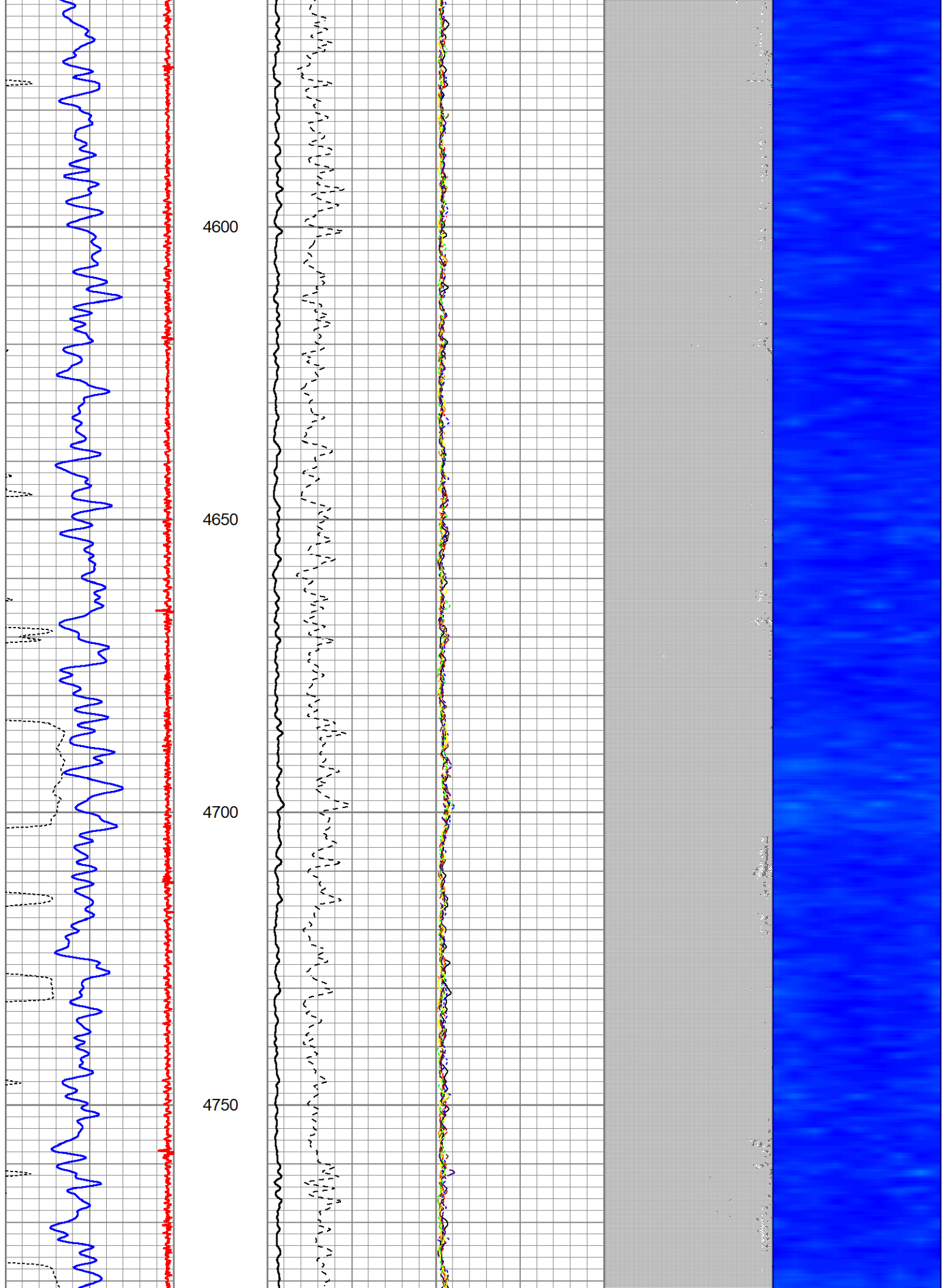


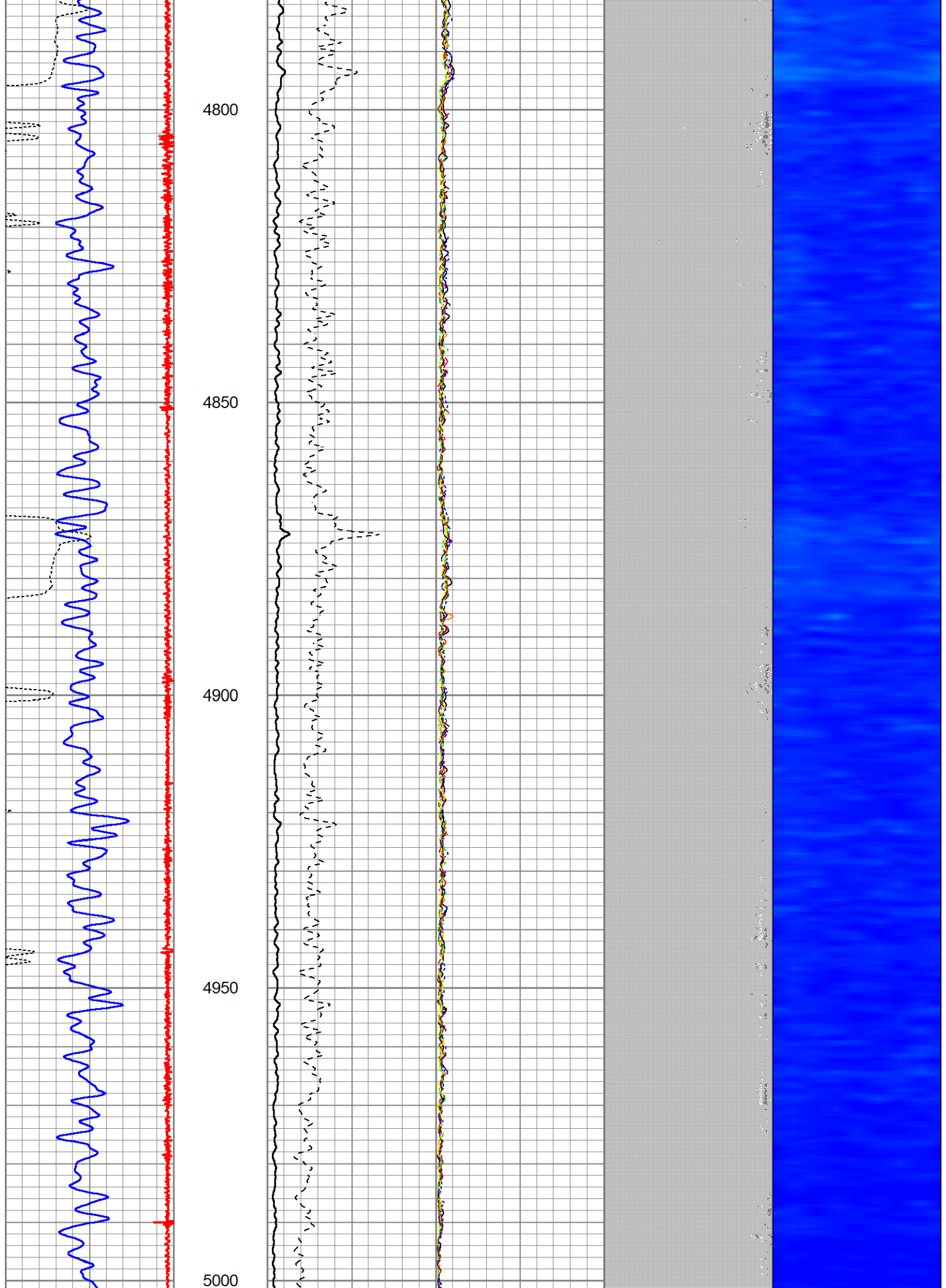


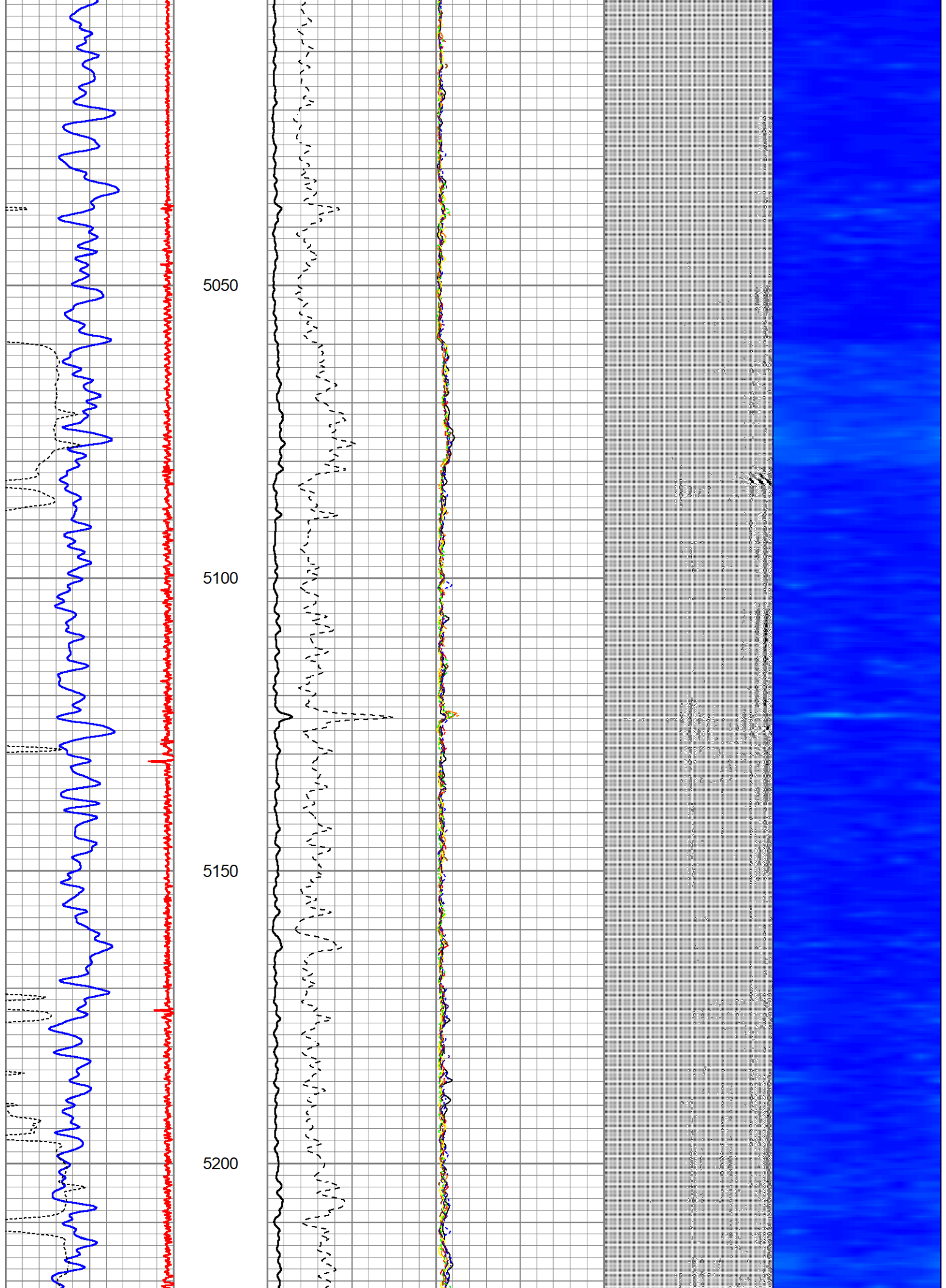


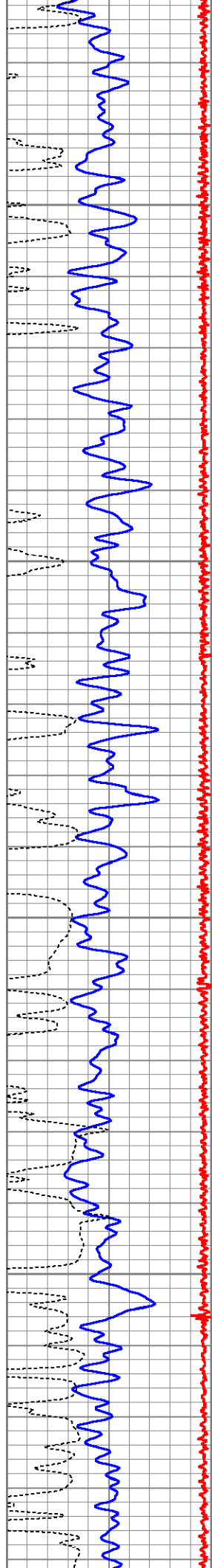










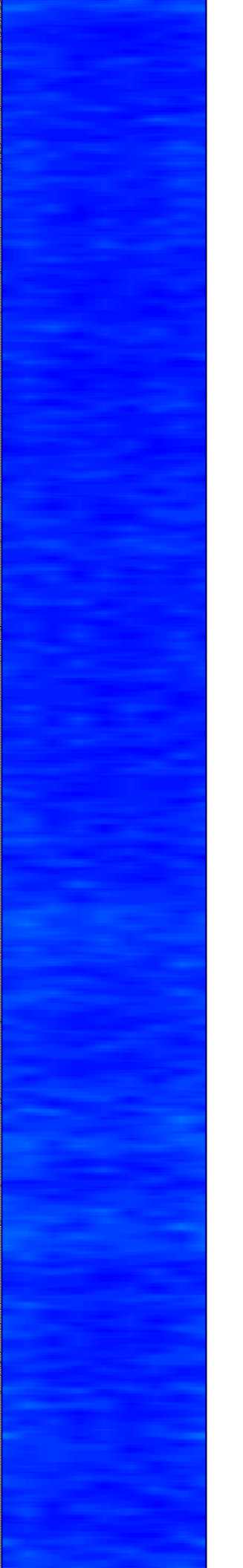
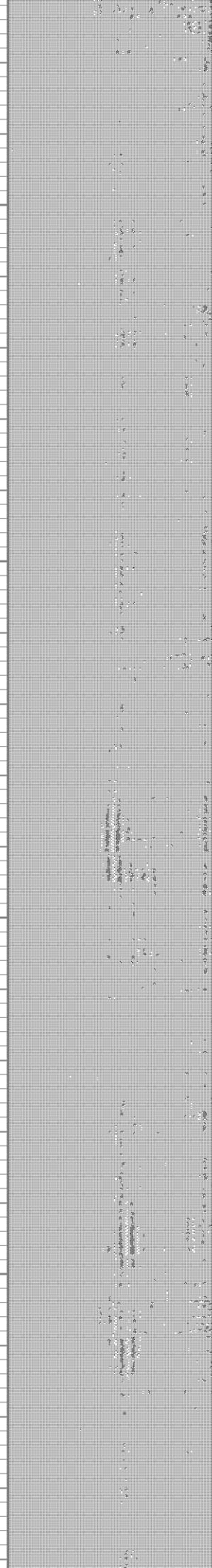
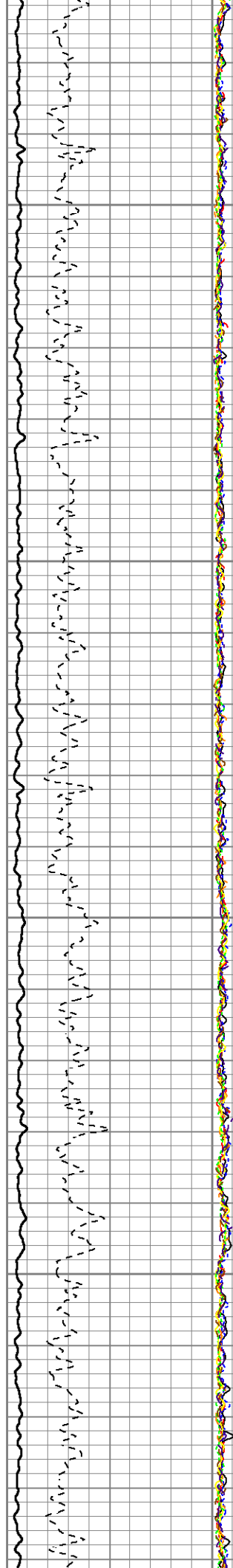


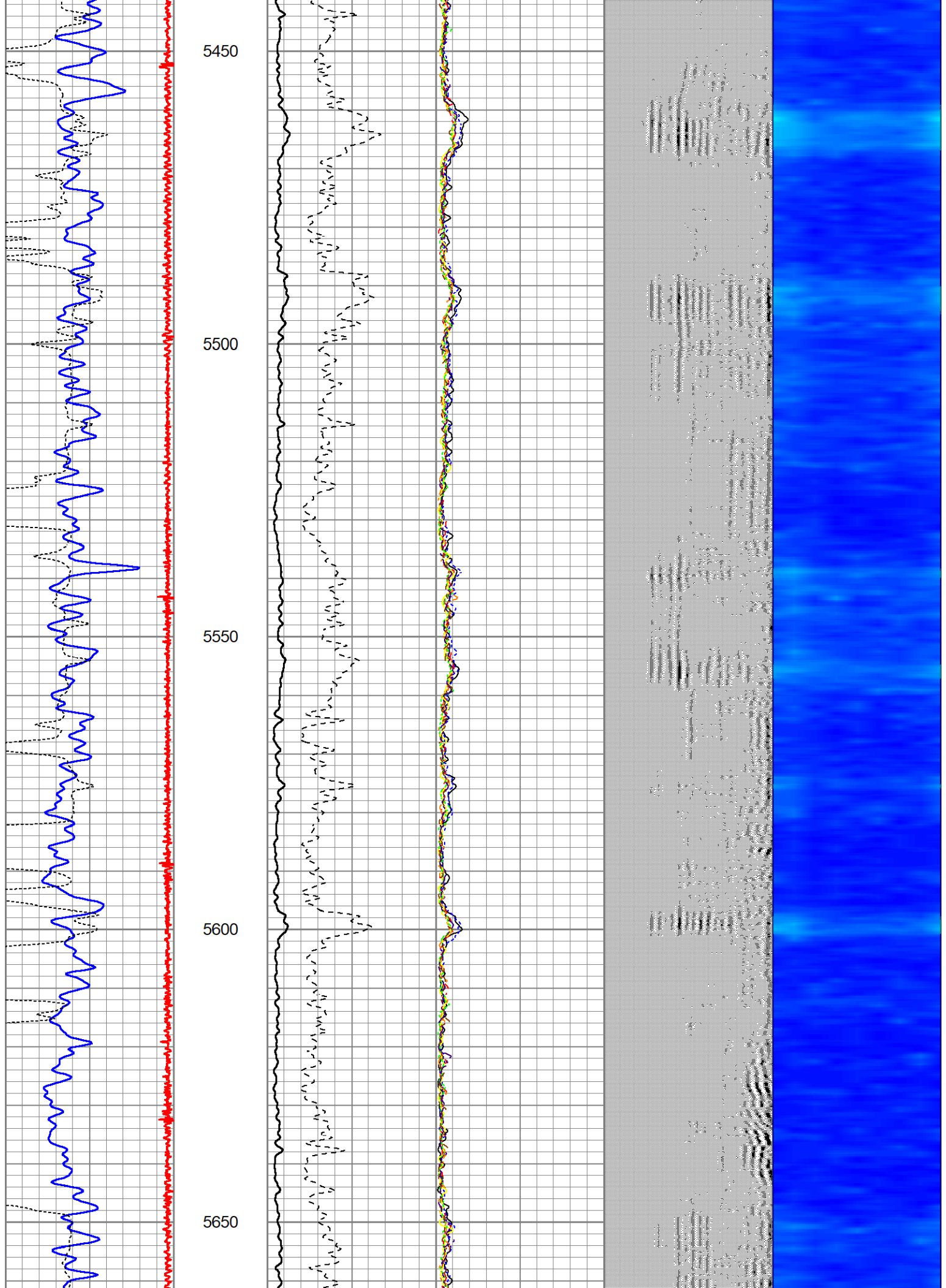
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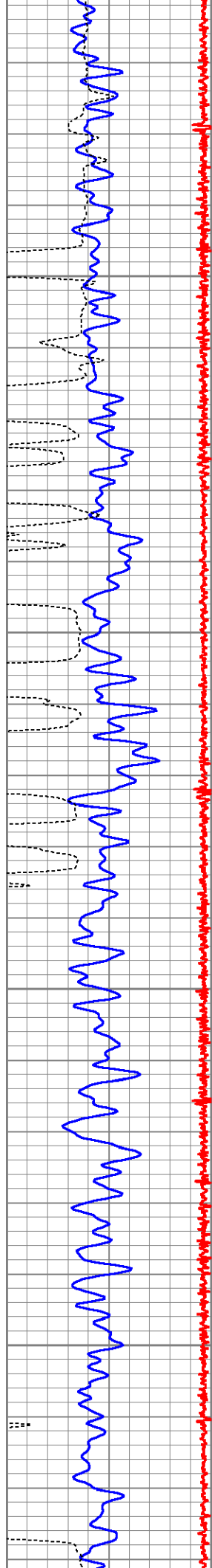
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5400





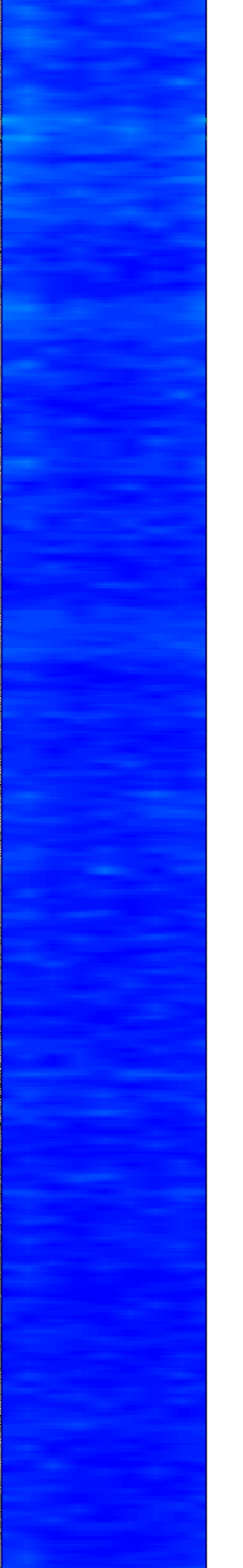
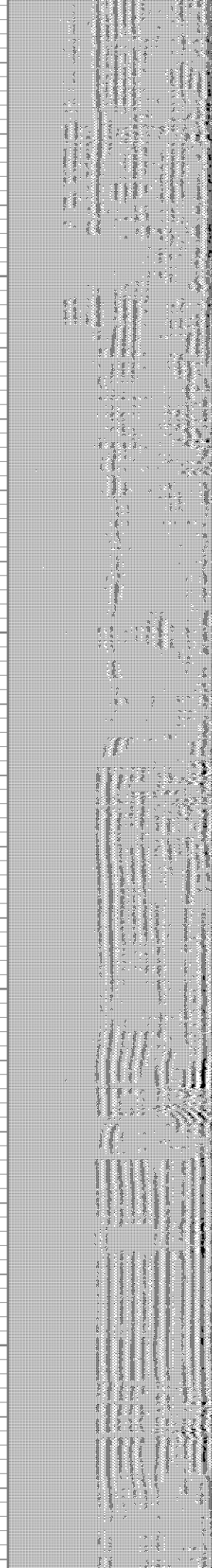
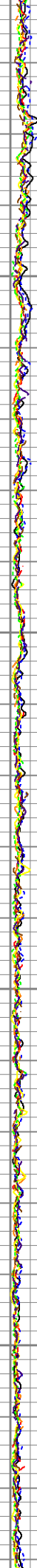
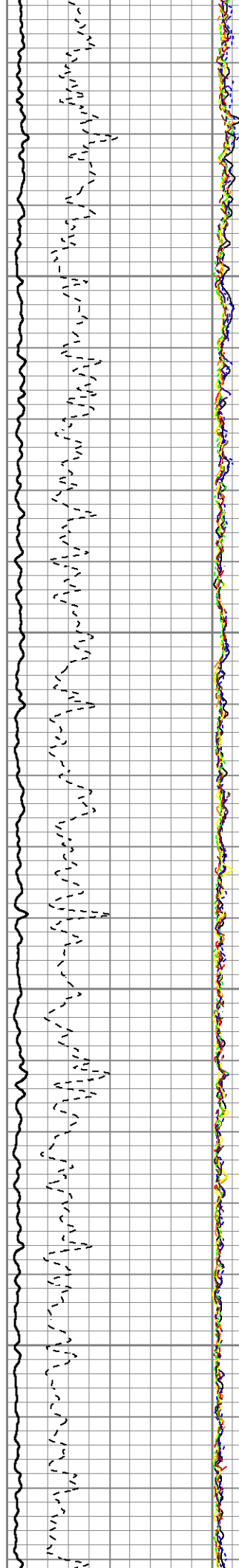


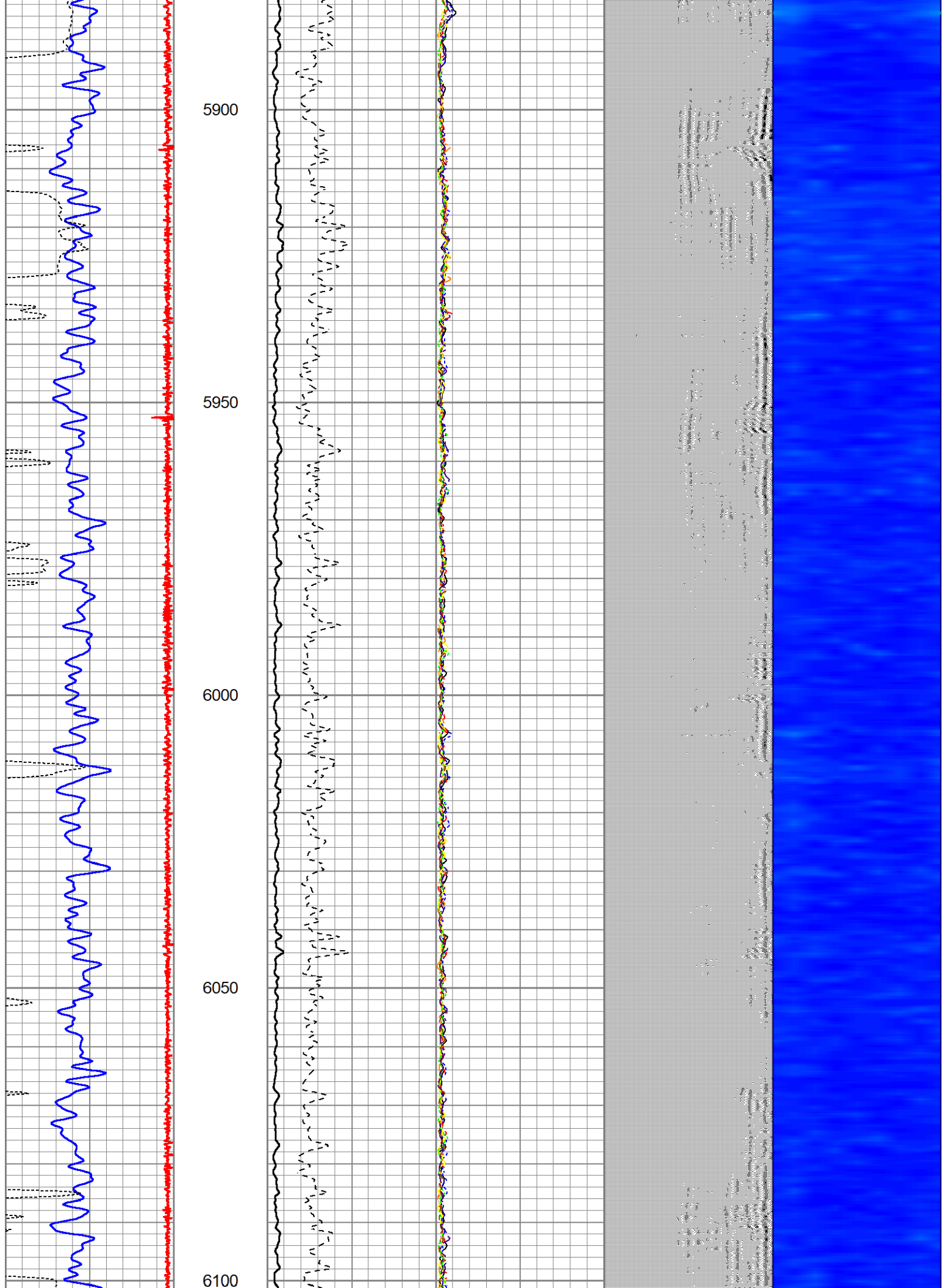
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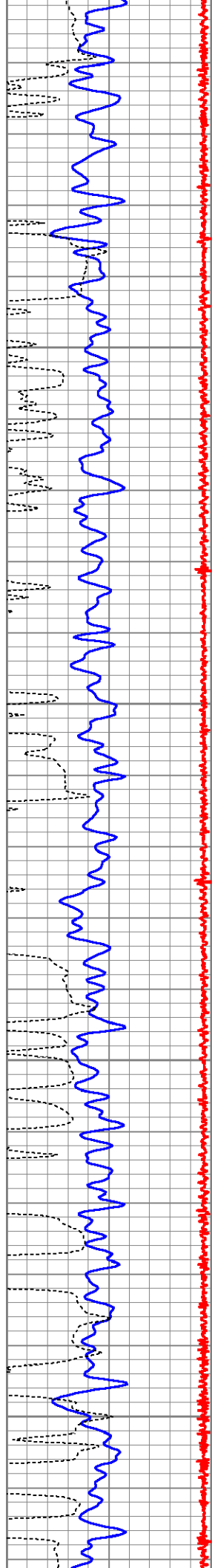
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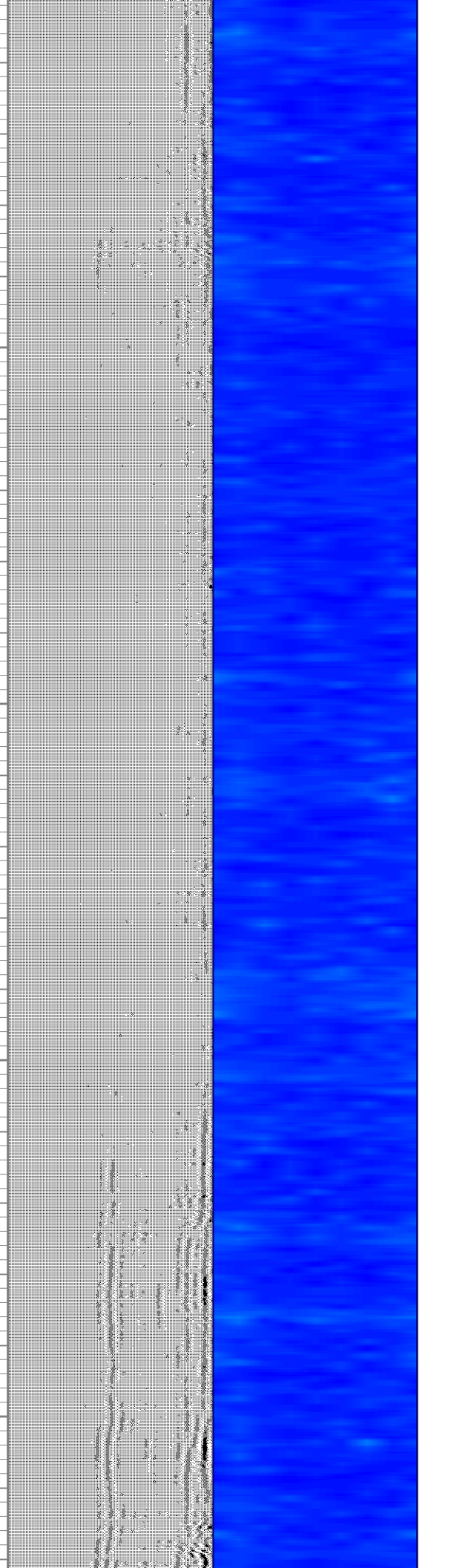
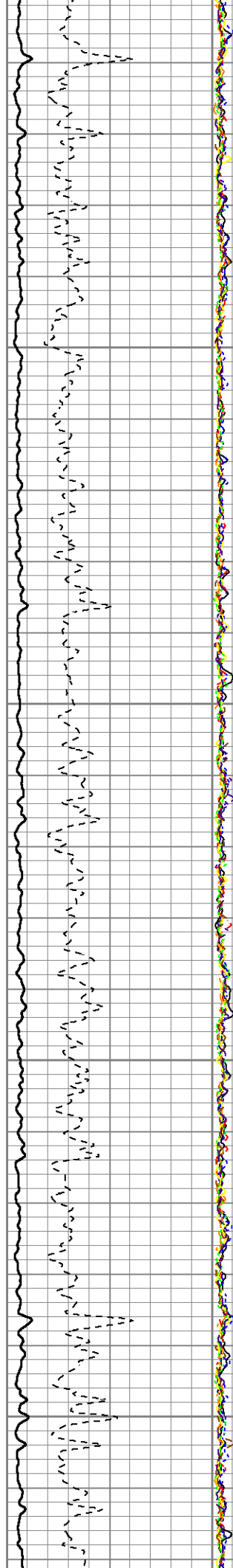


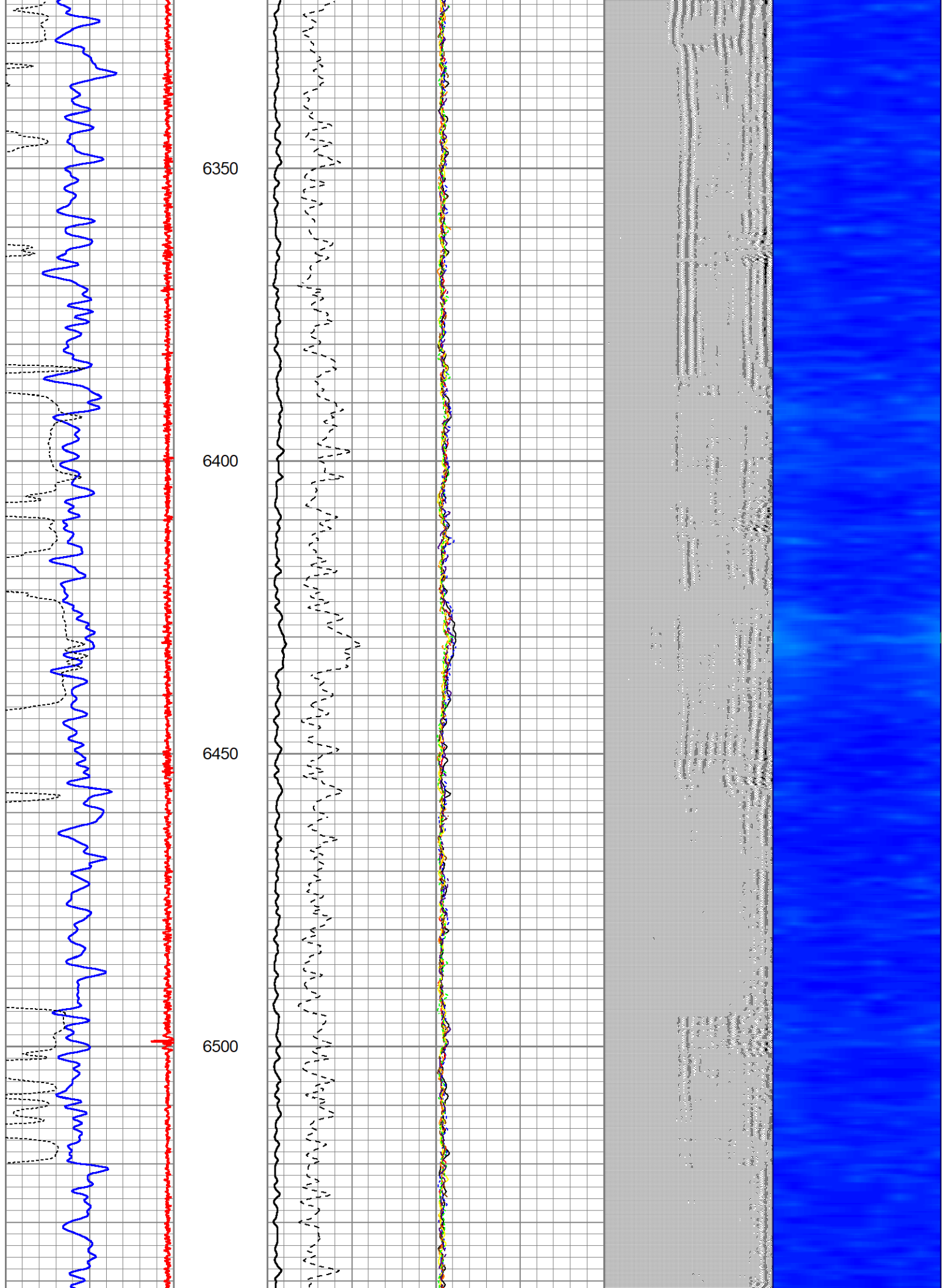
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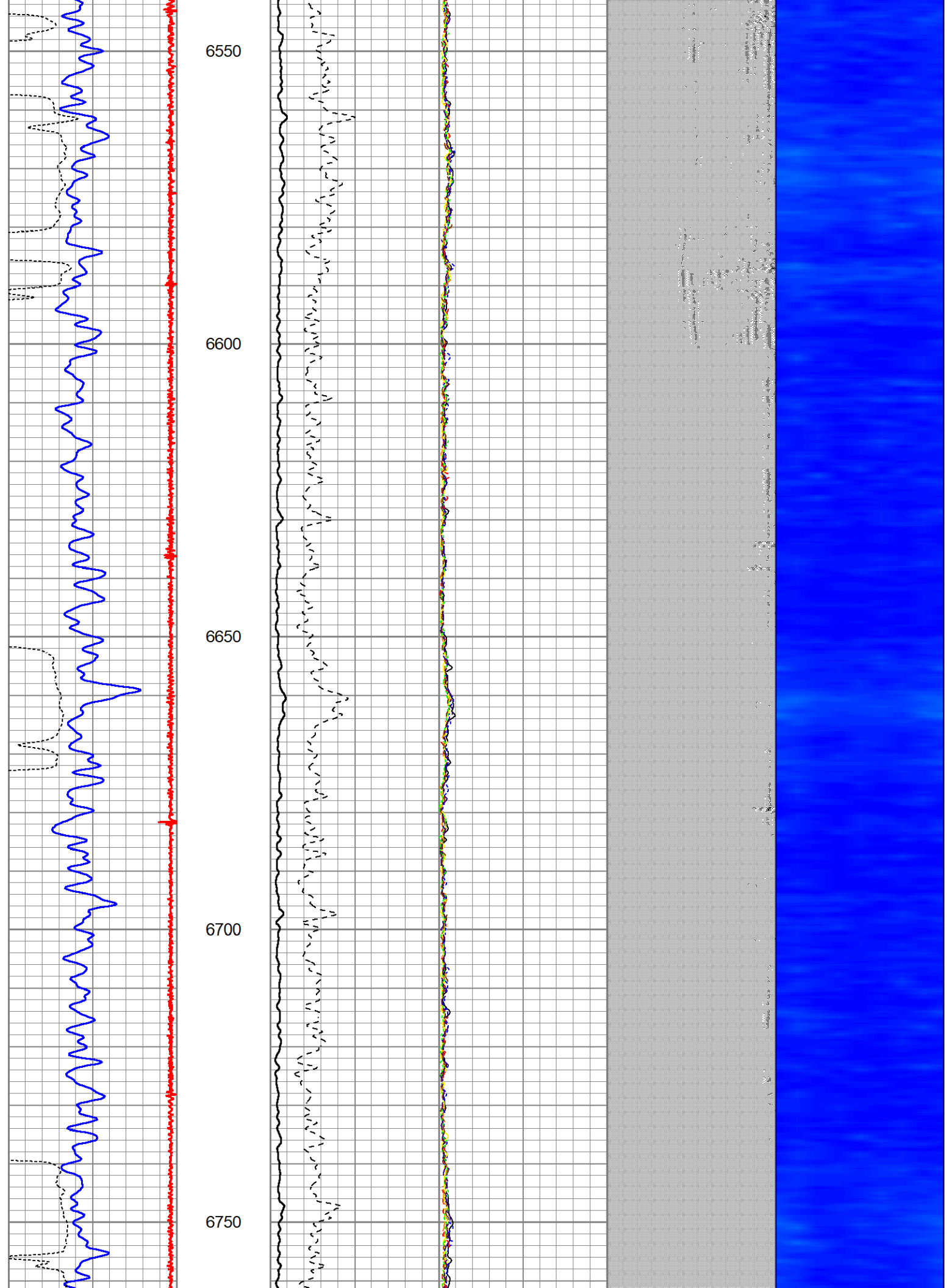
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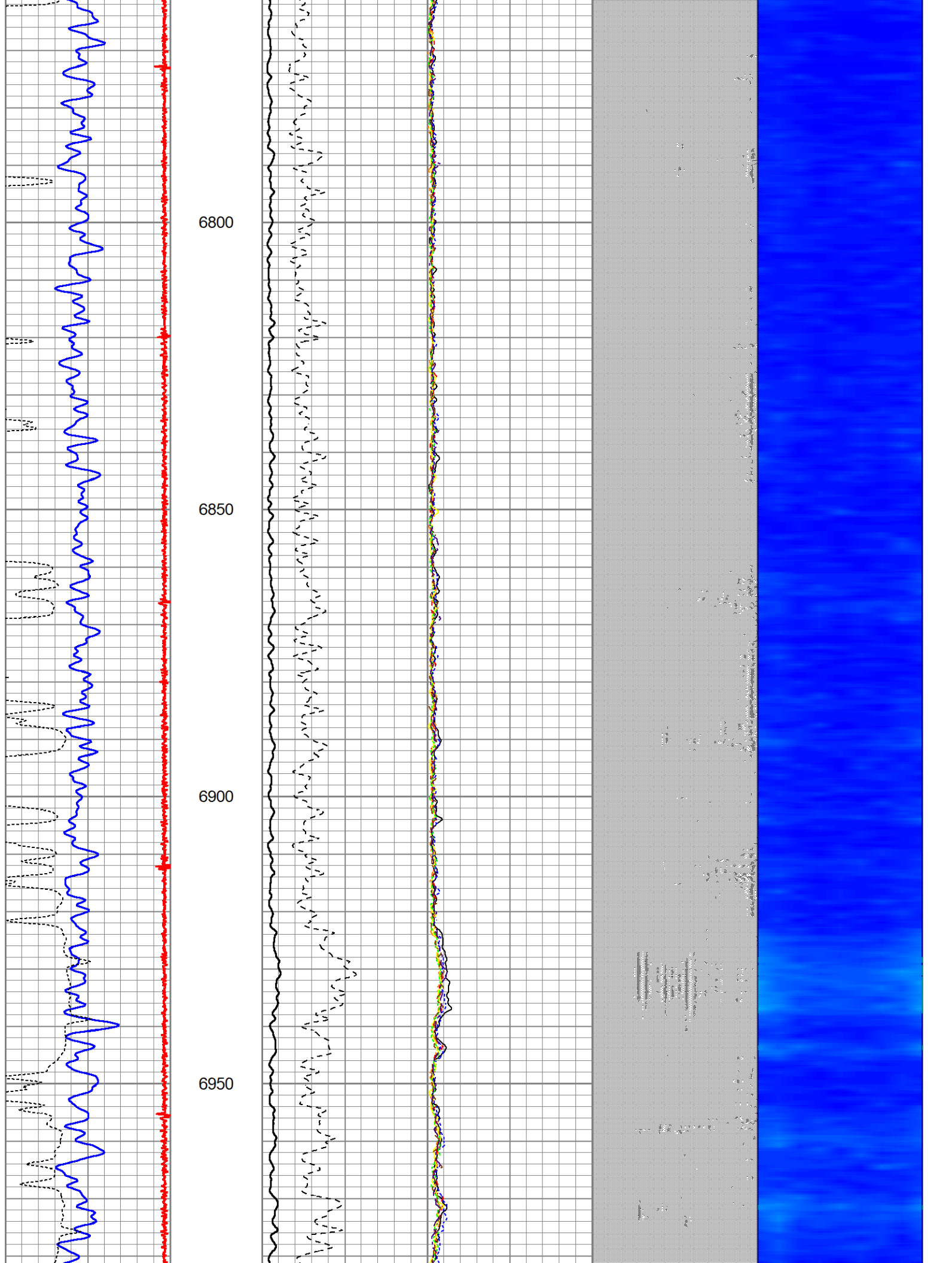
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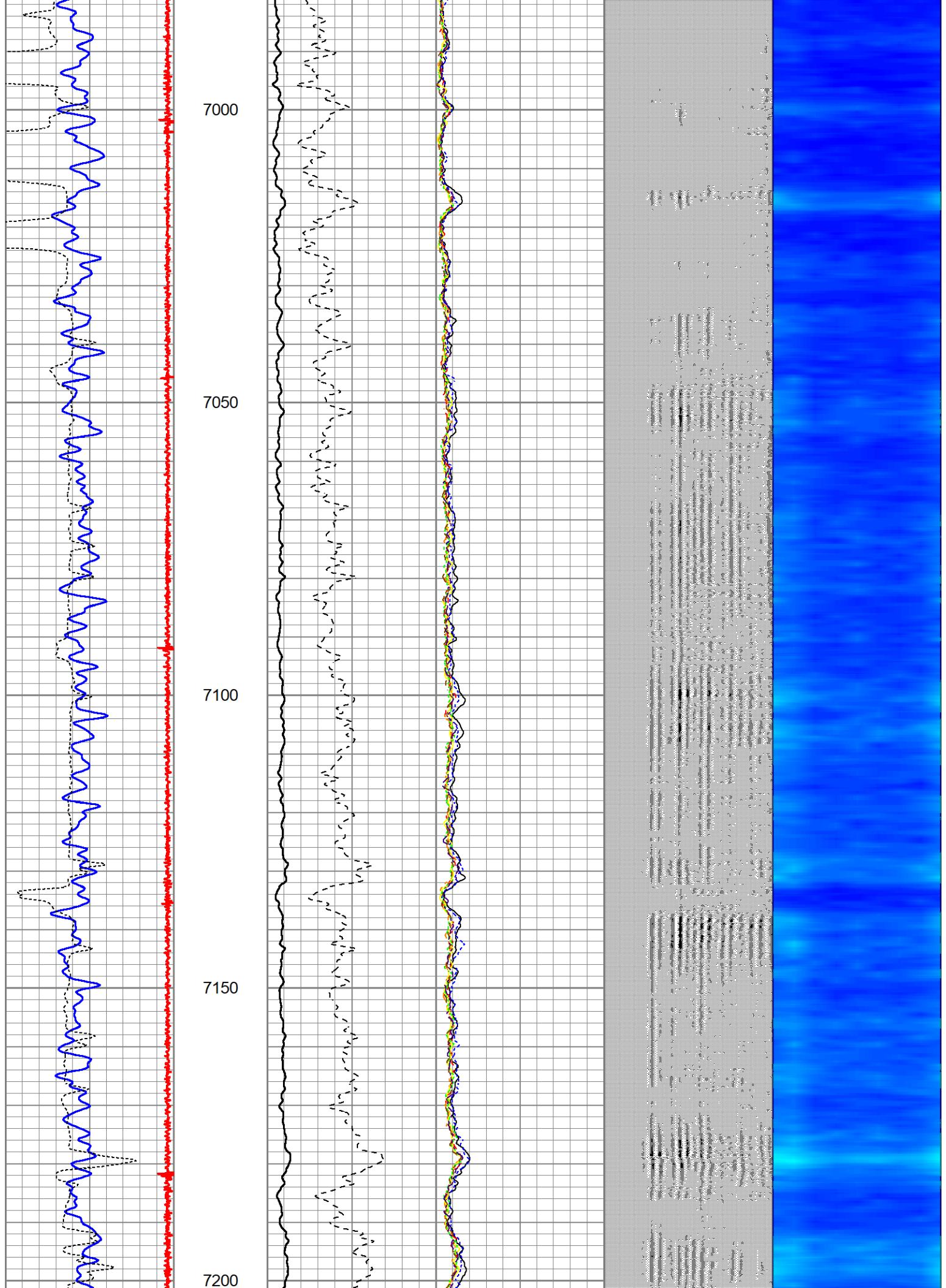
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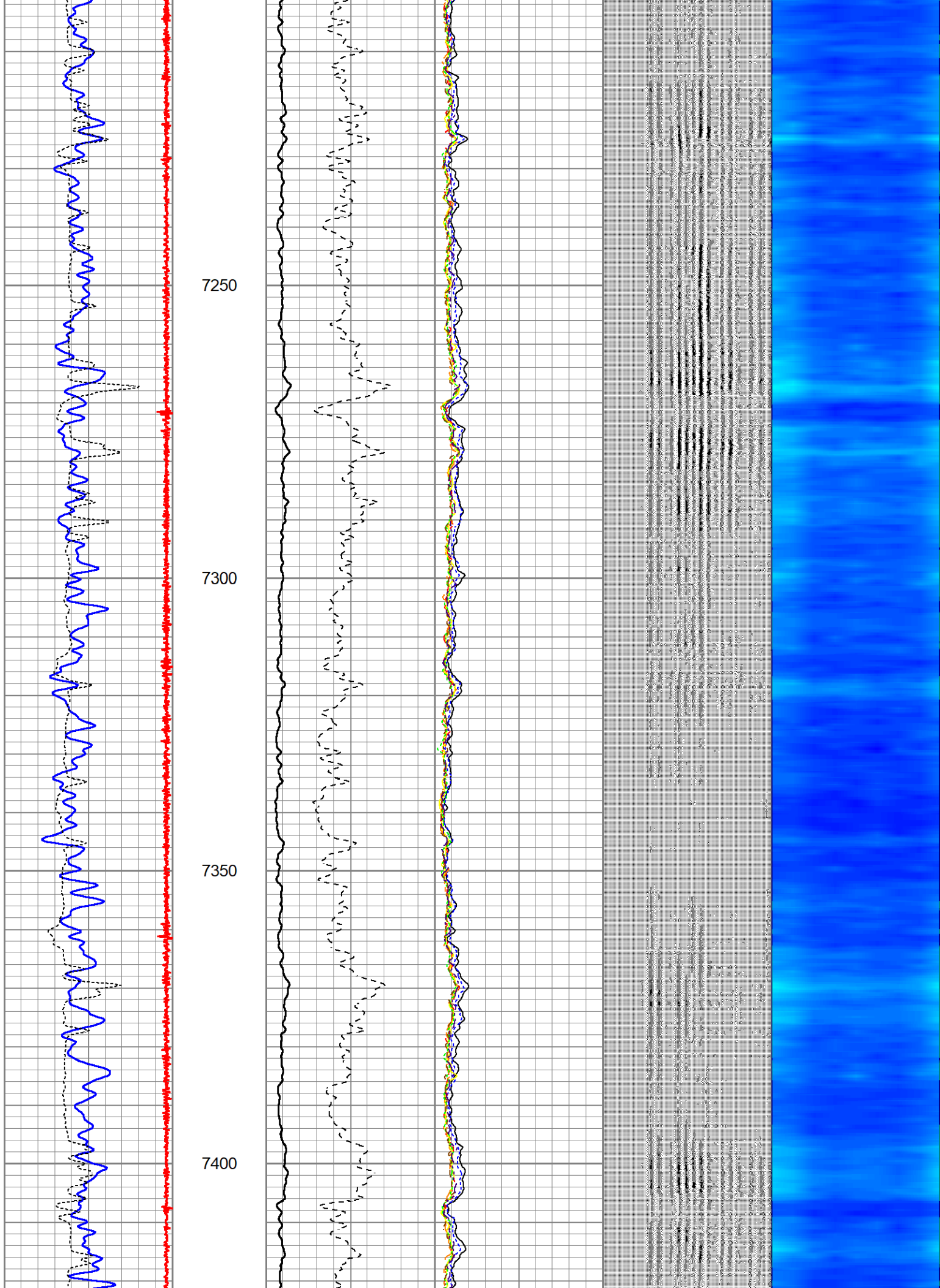


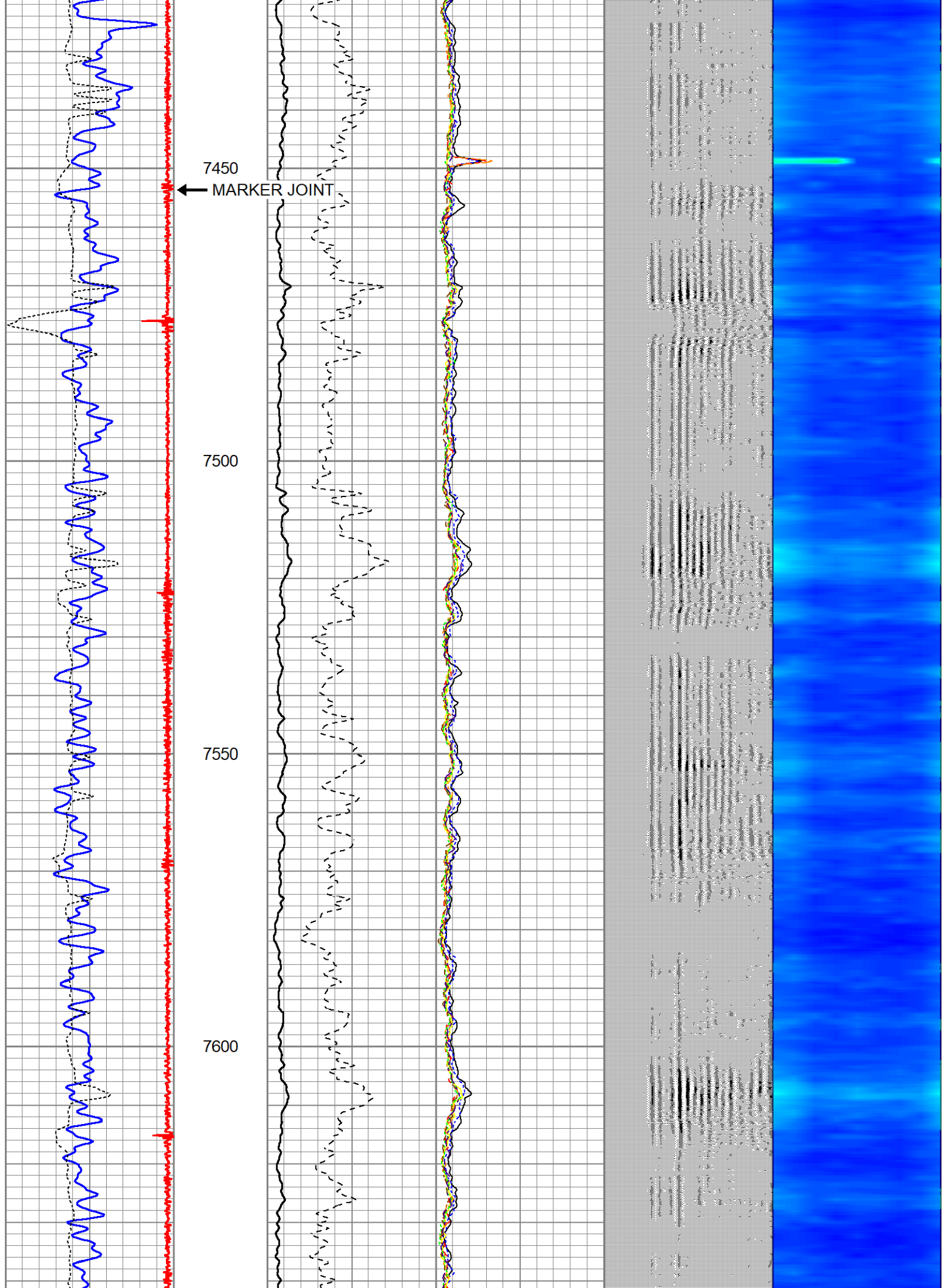


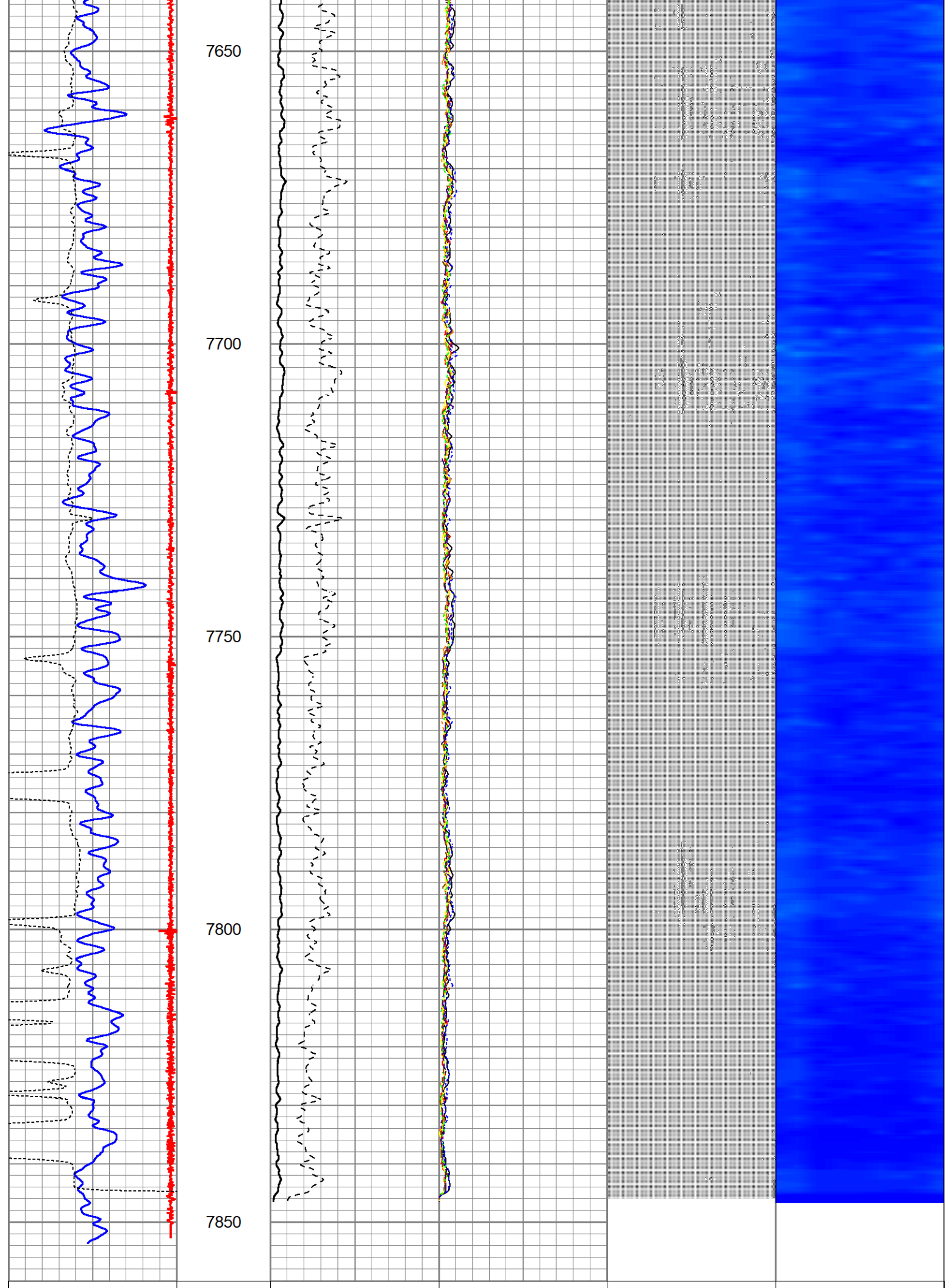













40	CCL	-1.5	0	AMP (mV)	100	0	AMPS1	100	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	150	AMPLIFIED AMP3		0	0	AMPS2	100						
340	TT3 (usec)	260	0	(mV)	20	0	AMPS3	100						
						0	AMPS4	100						
						0	AMPS5	100						
						0	AMPS6	100						
						0	AMPS7	100						
						0	AMPS8	100						



REPEAT PASS

Database File

king 03-65 28-29 02ah rcbl.db

Dataset Pathname

pass1.3

Presentation Format

zwag (2)

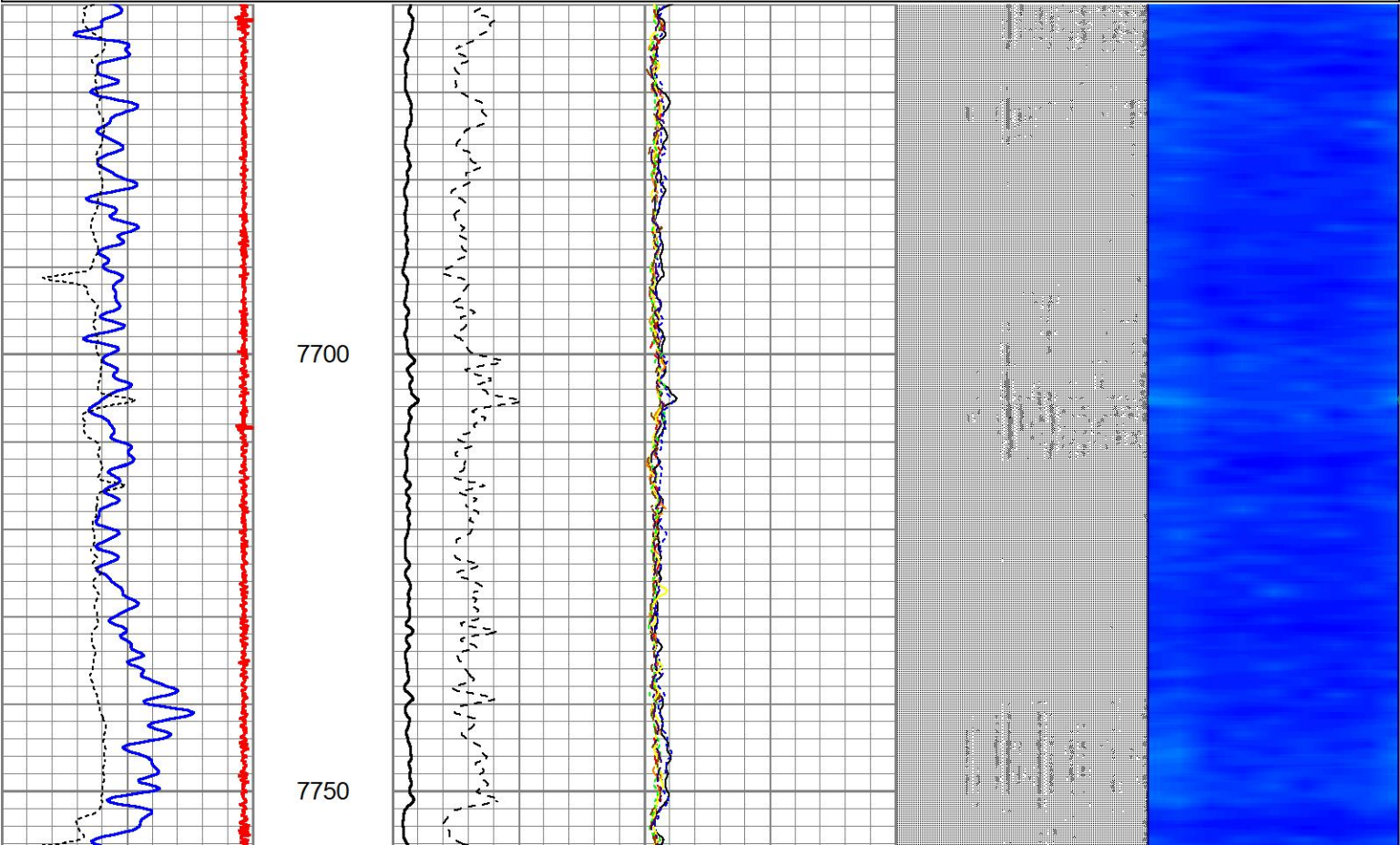
Dataset Creation

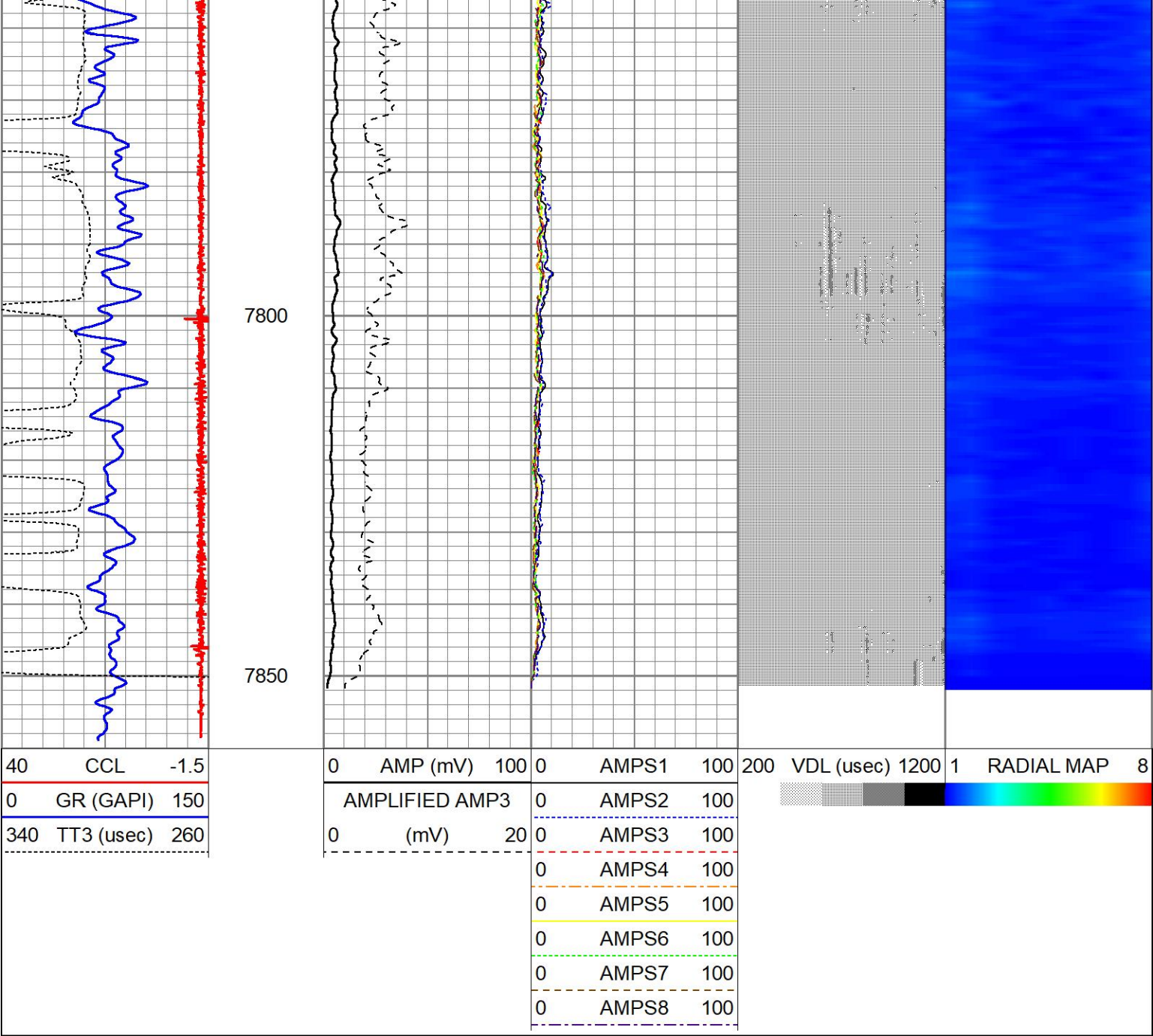
Sat Jun 08 09:47:02 2024

Charted by

Depth in Feet scaled 1:240

40	CCL	-1.5	0	AMP (mV)	100	0	AMPS1	100	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	150	AMPLIFIED AMP3		0	0	AMPS2	100						
340	TT3 (usec)	260	0	(mV)	20	0	AMPS3	100						
						0	AMPS4	100						
						0	AMPS5	100						
						0	AMPS6	100						
						0	AMPS7	100						
						0	AMPS8	100						





Calibration Report						
Database File	king 03-65 28-29 02ah rcbl.db					
Dataset Pathname	pass1.4					
Dataset Creation	Sat Jun 08 09:51:16 2024					
Gamma Ray Calibration Report						
Type / Serial:			Probe275dig / 101010			
SHOP CALIBRATION		Mon Feb 26 13:29:31 2024				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	0.0				cps	
Calibrator	1.0				cps	
		0.6000			GAPI/cps	
PRIMARY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	

BEFORE SURVEY VERIFICATION

Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	101020	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	189.017	ft

Master Calibration, performed Sat Jun 8 07:03:45 2024:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.794	2.200	71.921	87.938	2.058
CAL	0.002	0.800				
5'	0.002	0.786	2.200	71.921	88.867	2.033
SUM						
S1	0.002	0.713	0.000	72.000	101.316	-0.205
S2	0.002	0.803	0.000	72.000	89.831	-0.162
S3	0.002	0.810	0.000	72.000	89.107	-0.150
S4	0.002	0.810	0.000	72.000	89.131	-0.160
S5	0.001	0.805	0.000	72.000	89.632	-0.133
S6	0.002	0.807	0.000	72.000	89.389	-0.158
S7	0.002	0.795	0.000	72.000	90.703	-0.142
S8	0.002	0.793	0.000	72.000	90.946	-0.159

Internal Reference Calibration, performed Tue Feb 12 13:45:01 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.002	0.800	1.000	0.000

Air Zero Calibration, performed Thu Feb 21 14:40:31 2013:

	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	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\king 03-65 28-29 02ah rcbl.db
Dataset field/well/run1/pass1.4/_vars_

Top - Bottom

BOREID in 9.625	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 20	MAXAMPL mV 72	MINAMPL mV 2.2	MINATTN db/ft 0.8
PERFS No	PPT usec 370	SRFTEMP degF 69	TDEPTH ft 0				

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)	
			CHD-STNDRD Standard Cable Head	1.00	1.69	10.00	
			CENT-PTS1.70 (PT0934) Probe 1.70 Centalizer	3.08	1.70	10.00	
WVFS8	11.88			RBT-Probe (101020) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFS7	11.88						
WVFS6	11.88						
WVFS5	11.88						
WVFS4	11.88						
WVFS3	11.88						
WVFS2	11.88						
WVFS1	11.88						
WVFCAL	11.88						
WVF3FT	11.88						
WVF5FT	10.88						
			CENT-PTS1.70 (PT0936) Probe 1.70 Centalizer	3.08	1.70	10.00	

