



PATRIOT

WELL SOLUTIONS

RADIAL BOND LOG

Company	HIGH POINT RESOURCES	Country	USA
Well	ANSCHUTZ EQ FARMS 4-62-33-1724C		
Field	WATTENBERG		
County	WELD		
State	CO		
Location:	API # : 05-123-39732	Other Services	
Permanent Datum	SEC 33 TWP 4N RGE 62W	Elevation	
Log Measured From	GROUND LEVEL	K.B. 4673	
Drilling Measured From	KB 16.5' ABOVE GL	D.F. 4673	
		G.L. 4657	
Date	02-APR-2018		
Run Number	ONE		
Depth Driller	16315		
Depth Logger	6310		
Bottom Logged Interval	6290		
Top Log Interval	0		
Open Hole Size	NA		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	207		
Estimated Cement Top	SEE LOG		
Time Well Ready	12:50		
Time Logger on Bottom	13:15		
Equipment Number	1007		
Location	BRIGHTON		
Recorded By	C. LOFGREN		
Witnessed By	BRUCE KILSCH		
Run Number	Bit	From	To
Casing Record	Size	Wgt/Ft	Top
Surface String	9.625	36	0
Prot. String			
Production String	7	26	0
Liner	4.5	11.6	5096
			16315

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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.

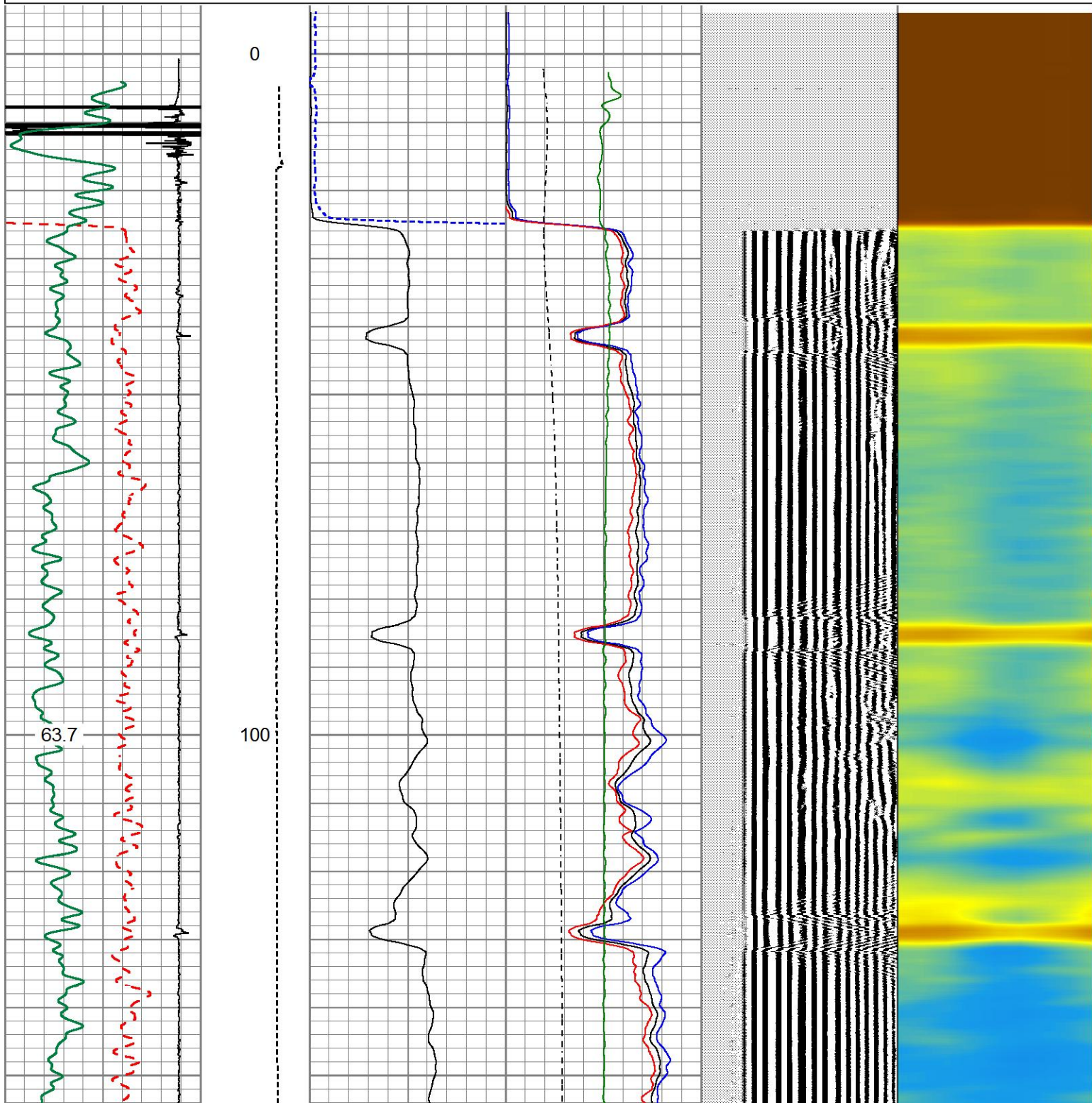
Comments

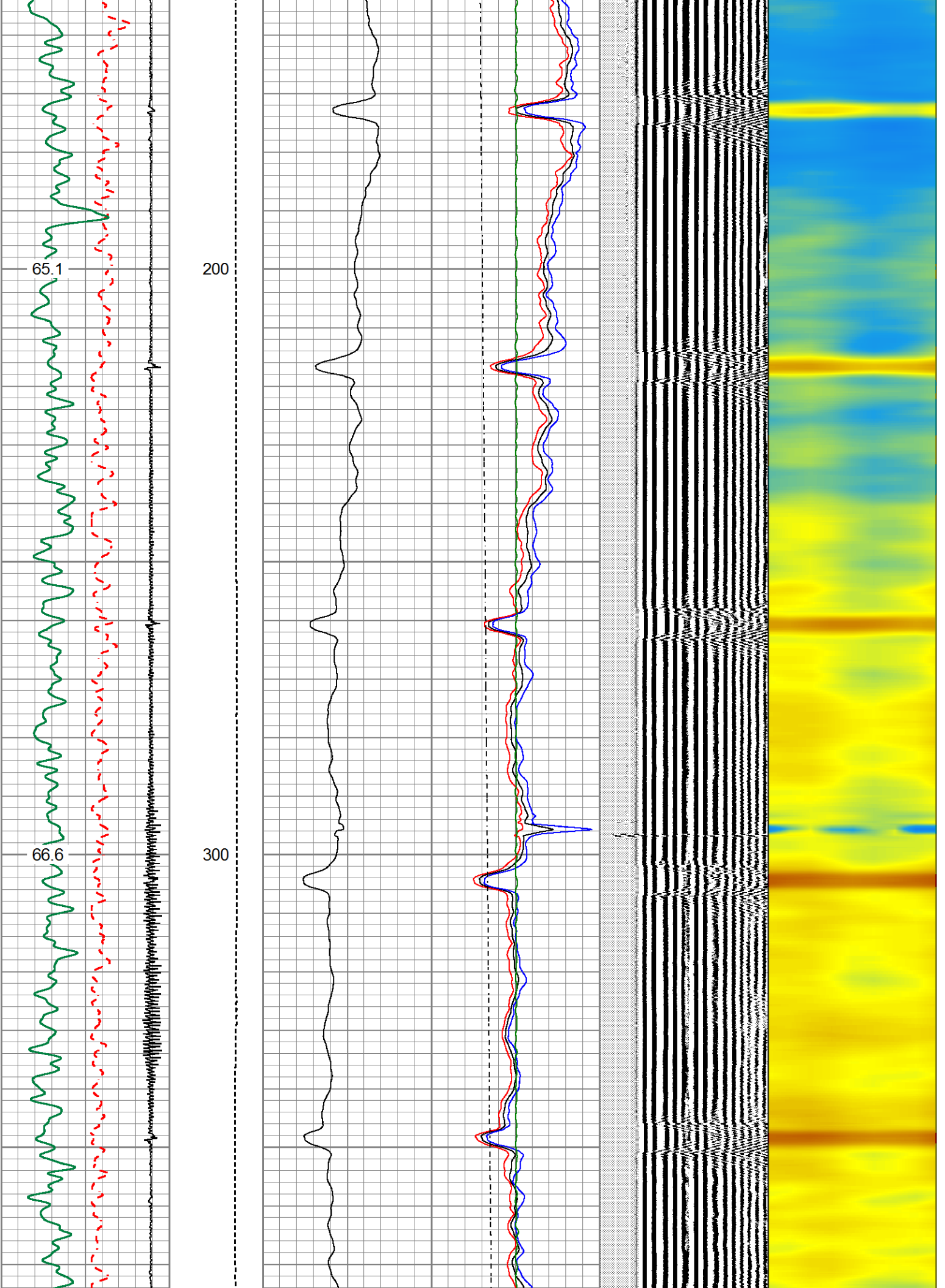
NO CORRELATION LOGS AVAILABLE. KB USED AS CORRELATION.

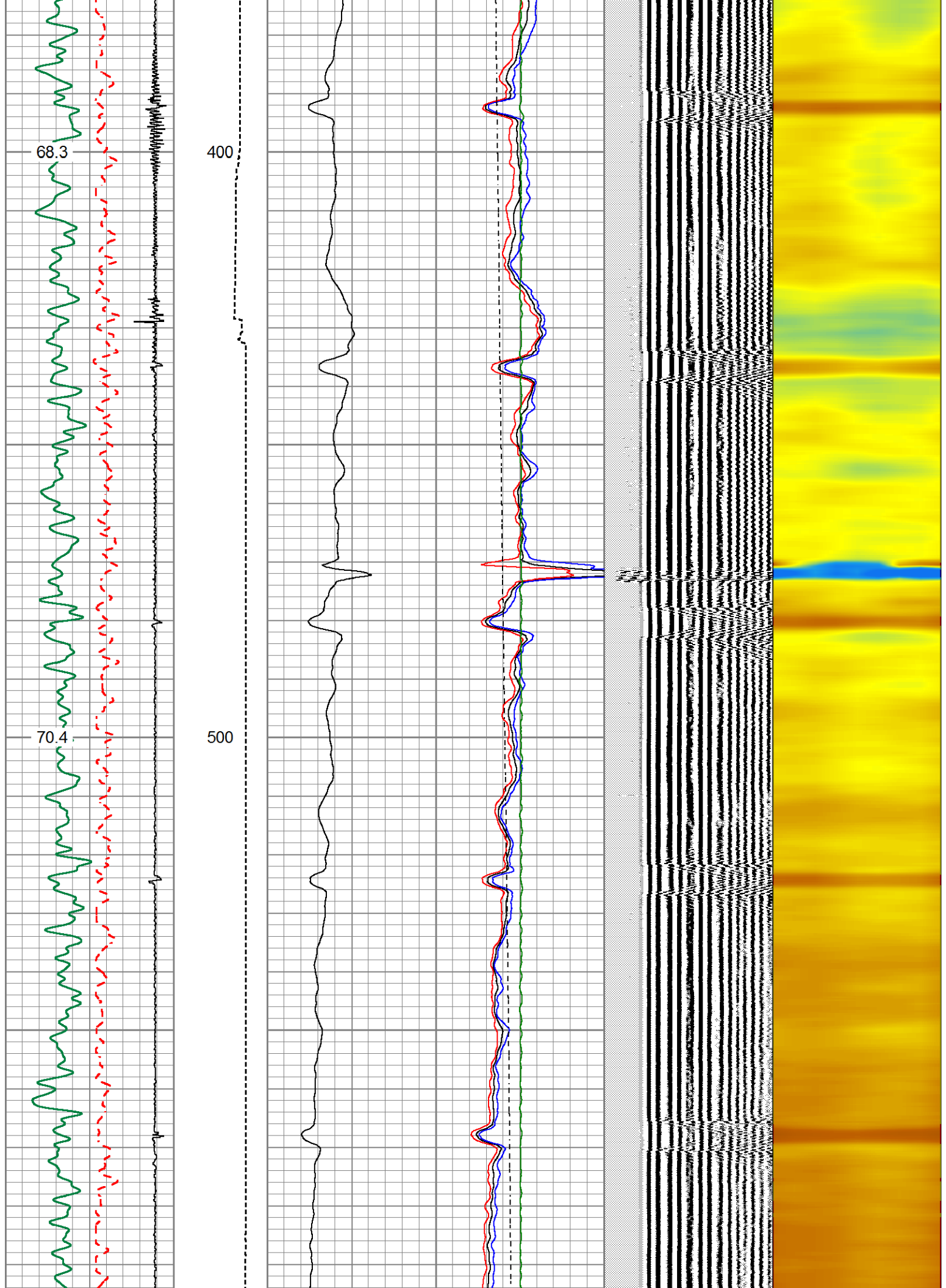
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-PTS275	2.75	2.75	

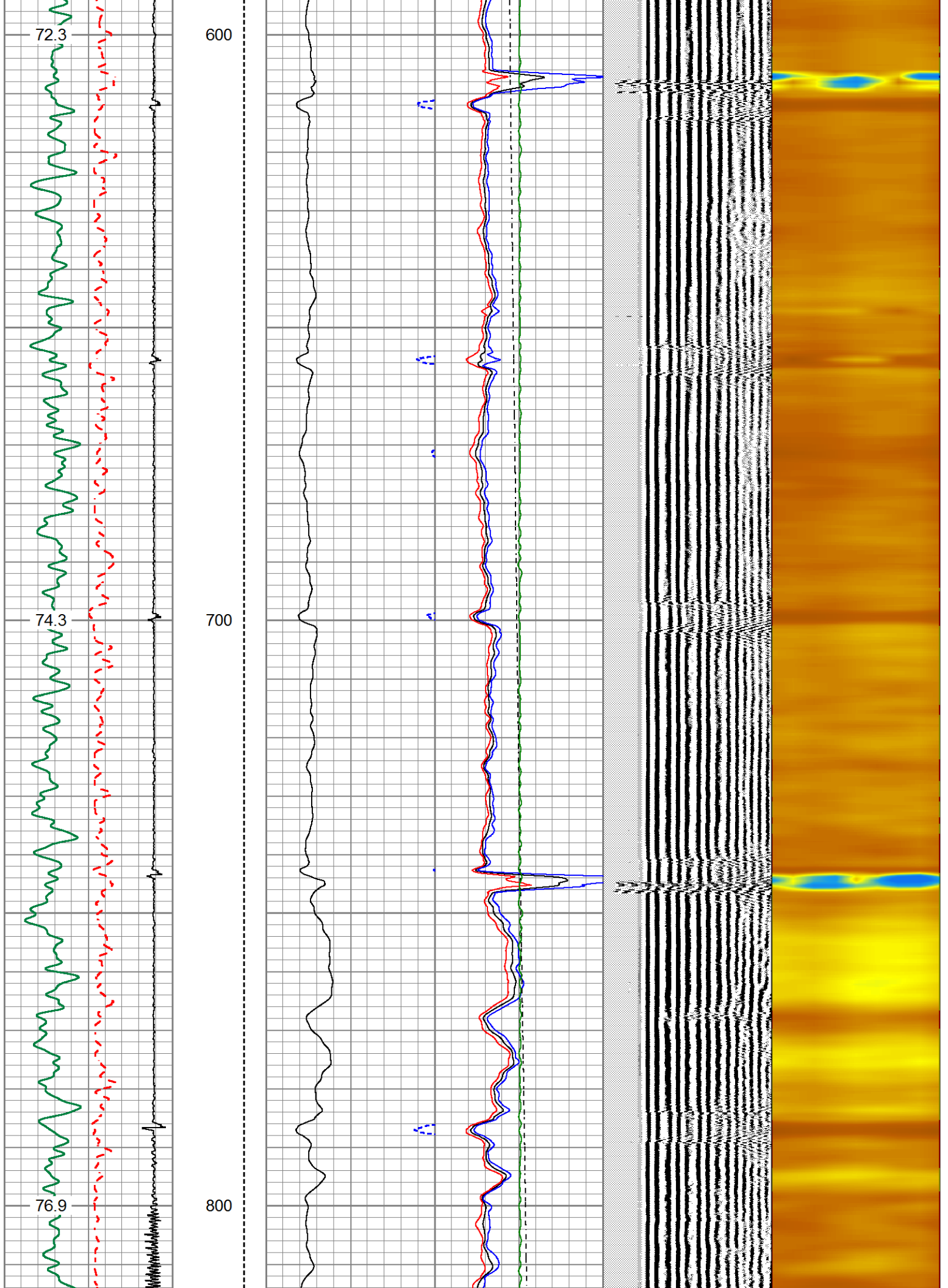
Database File anschutz eq farms 4-62-33-1724c.db
Dataset Pathname merge6
Presentation Format 1patriotradi
Dataset Creation Tue Apr 03 15:22:31 2018
Charted by Depth in Feet scaled 1:240

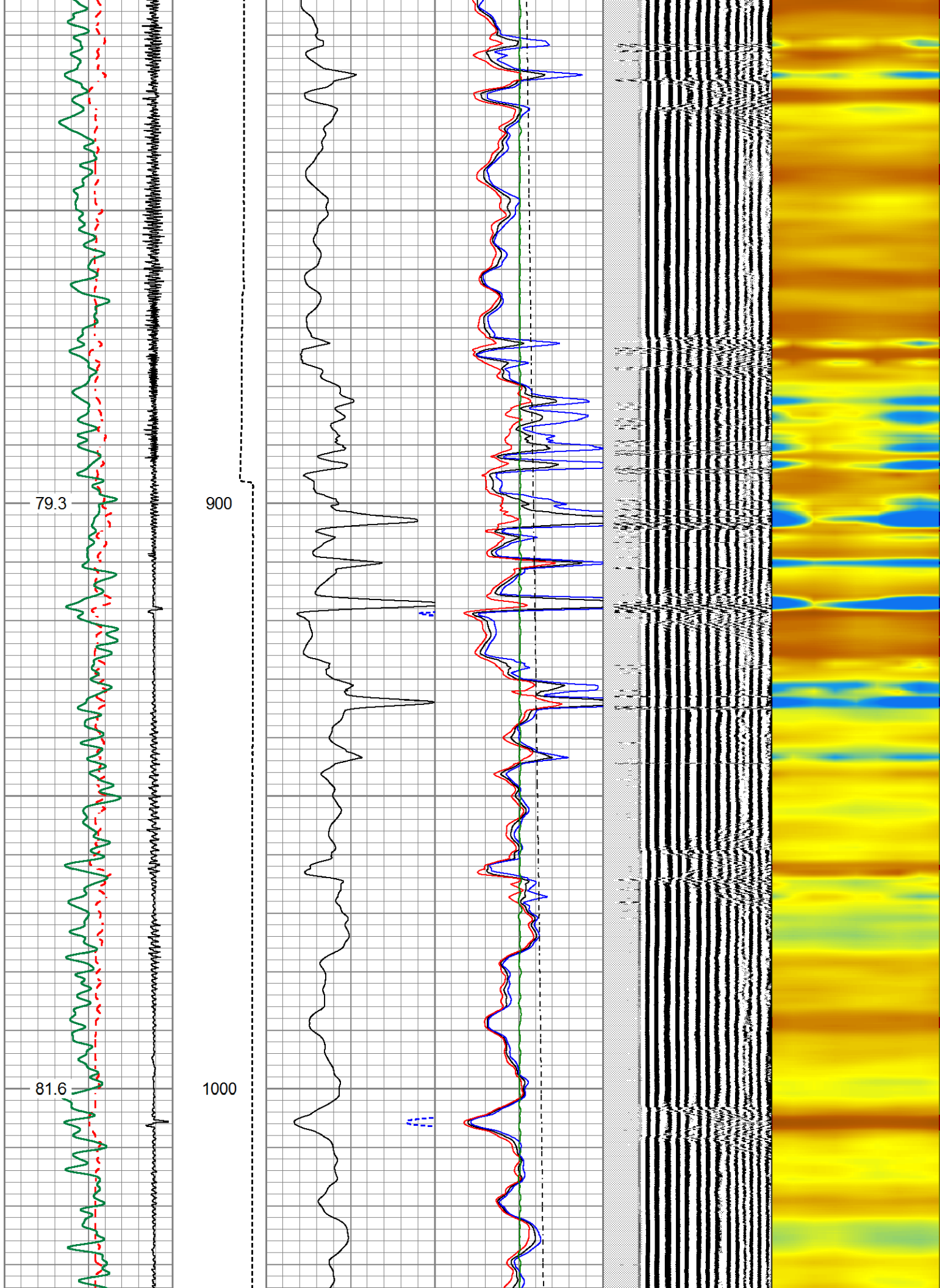
400	TT (usec)	200	LTEN	0	AMP (mV)	100	0	AMPAVG	100	200	VDL	1200	1	RADIAL MAP	8
13	DCCL	3	0 (lb/1000)	0	3FT X 5 (mV)	20	0	AMPMAX	100				1		100
0	GR (GAPI)	200					0	AMPMIN	100						
GCT_TEMP					GCT_Temp										
(degF)					(degF)										
					DGCT_Temp										
					(degF)										
					-2										
					2										

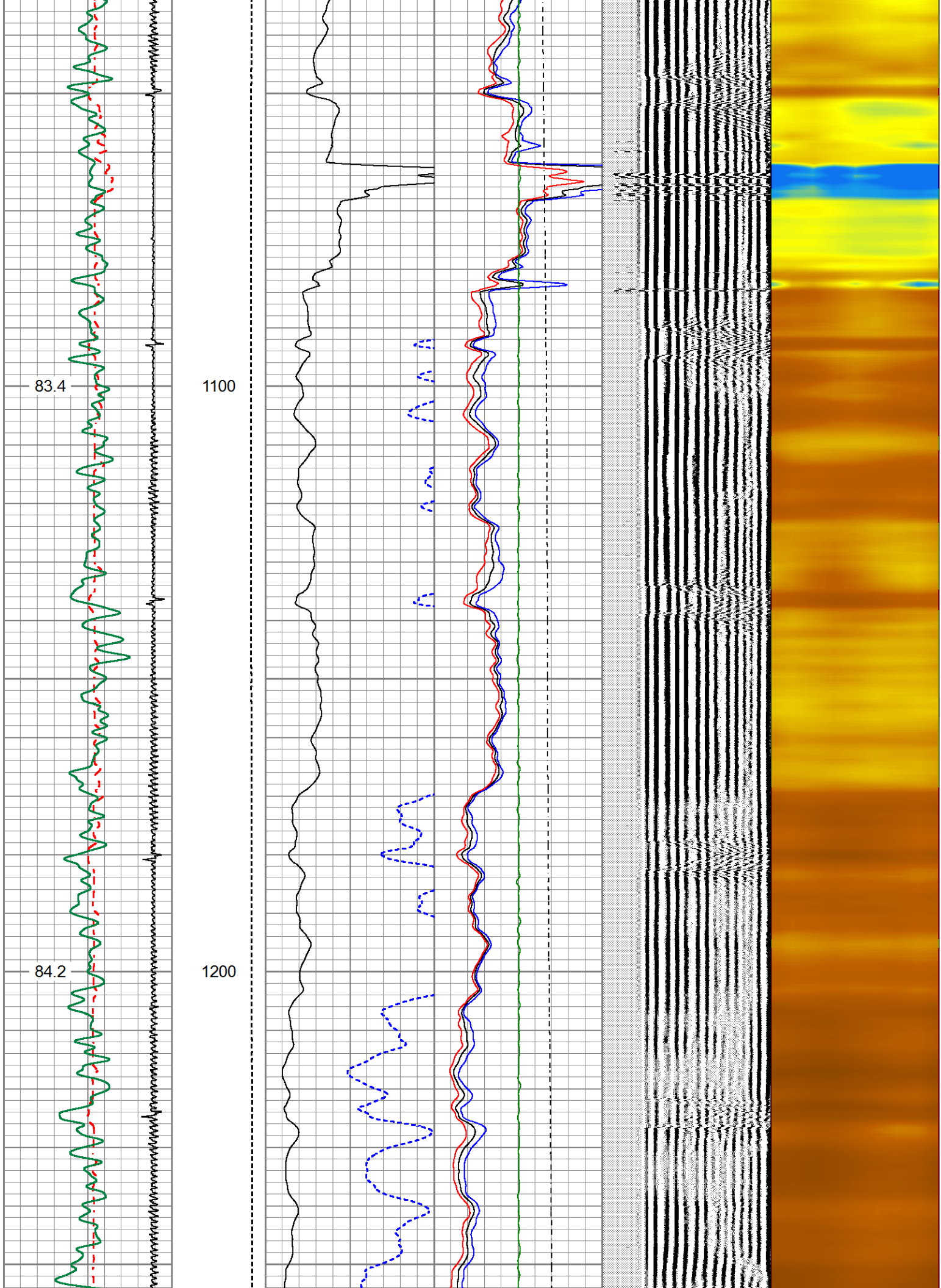


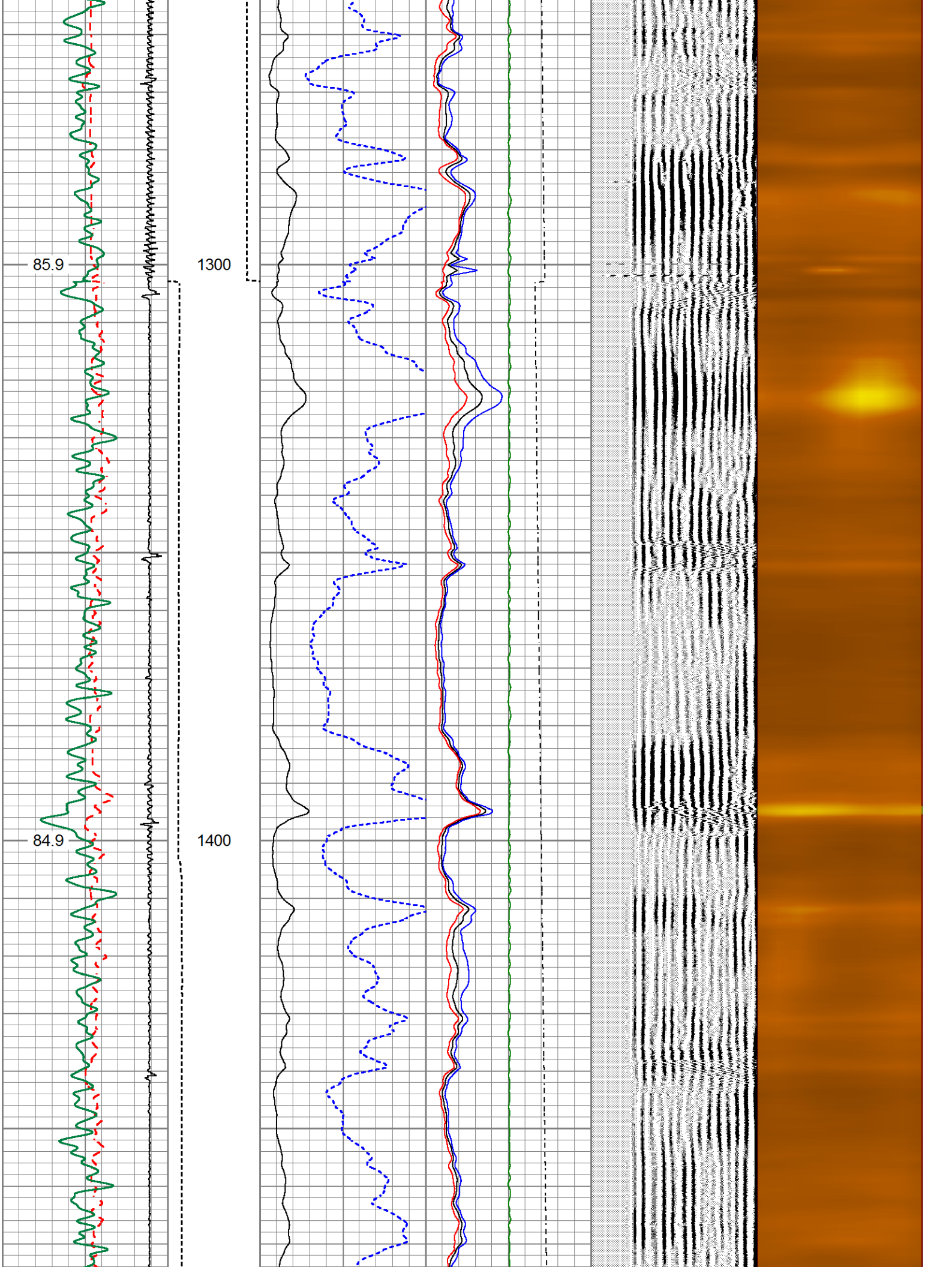


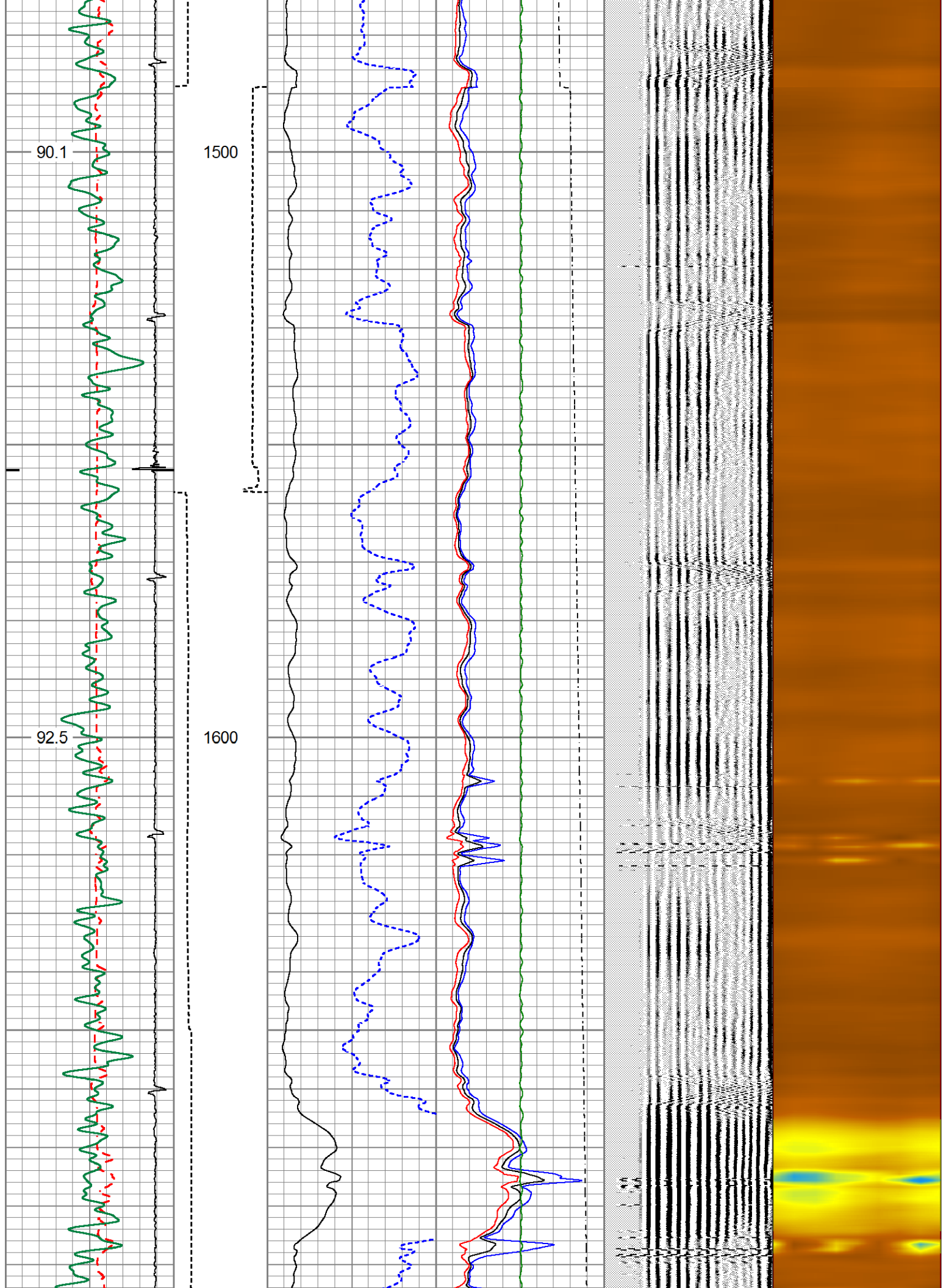


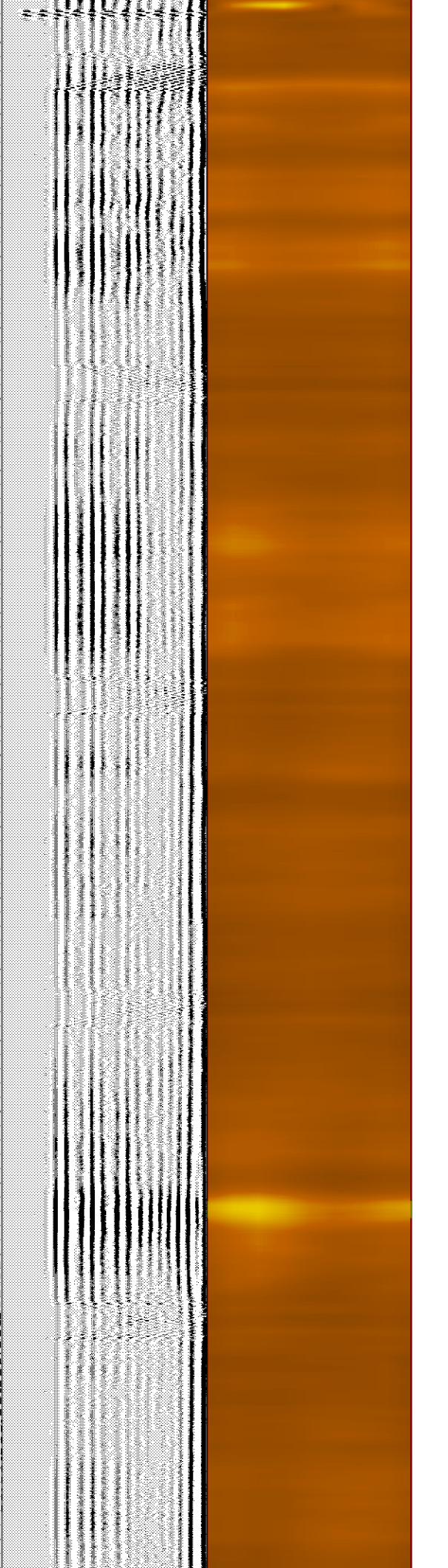
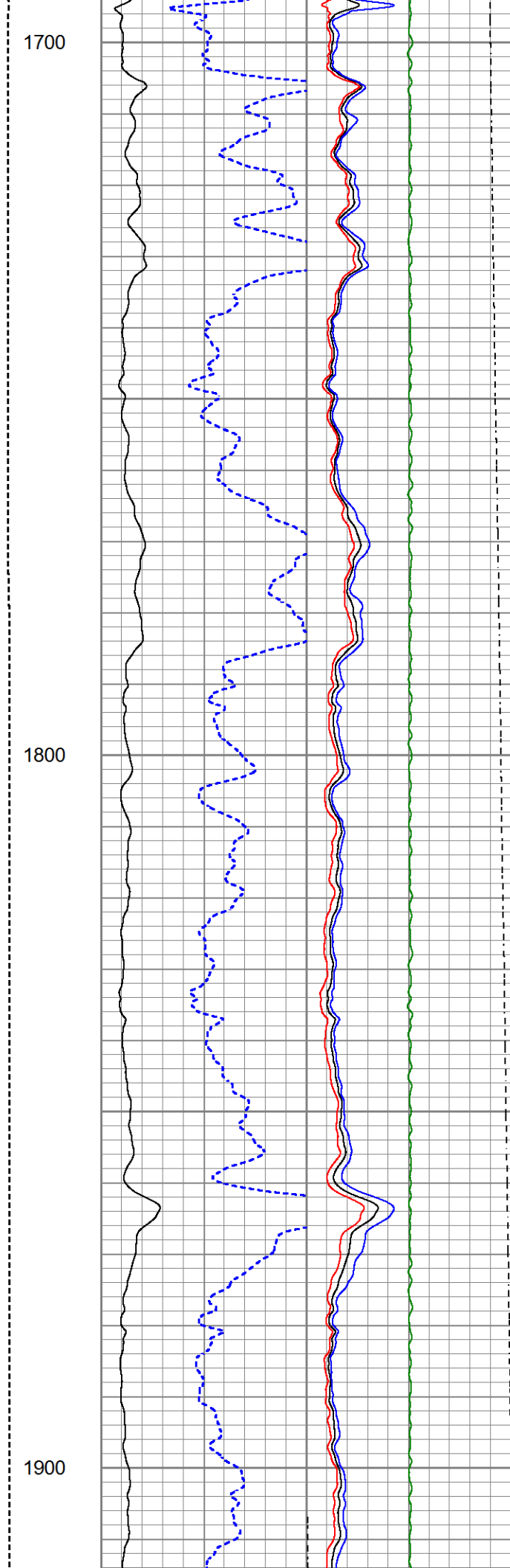
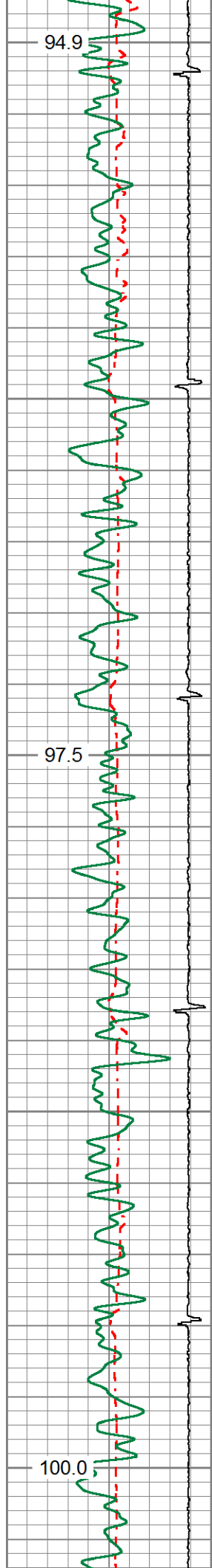


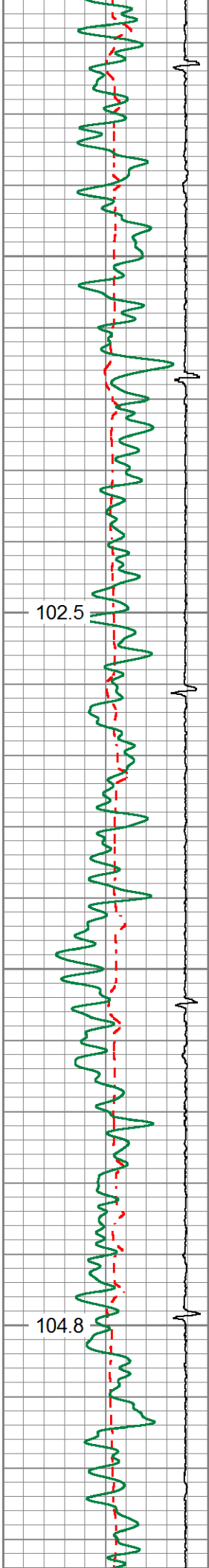












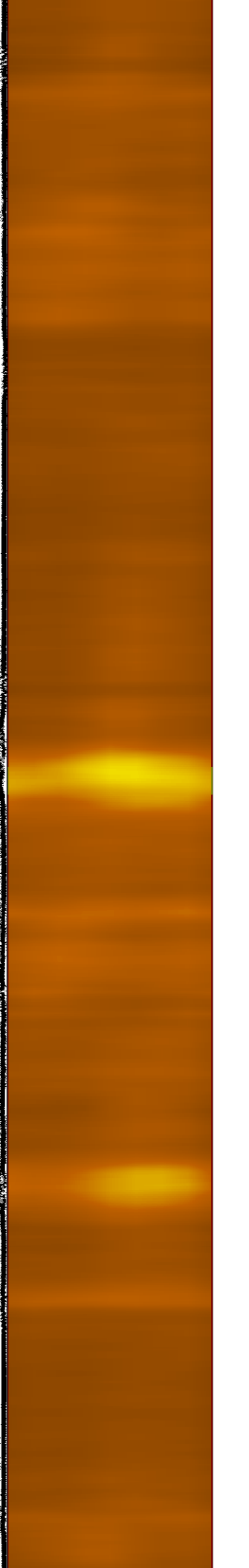
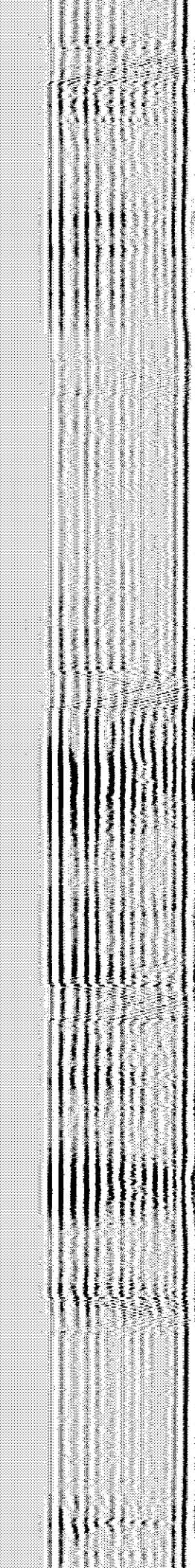
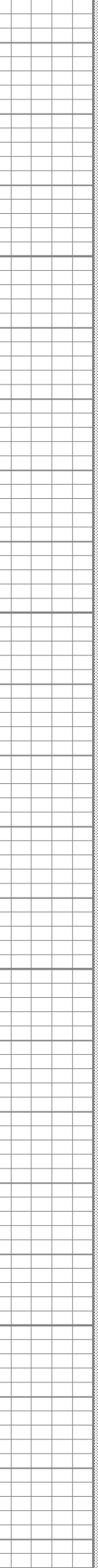
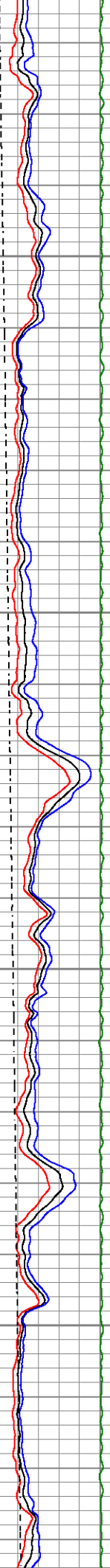
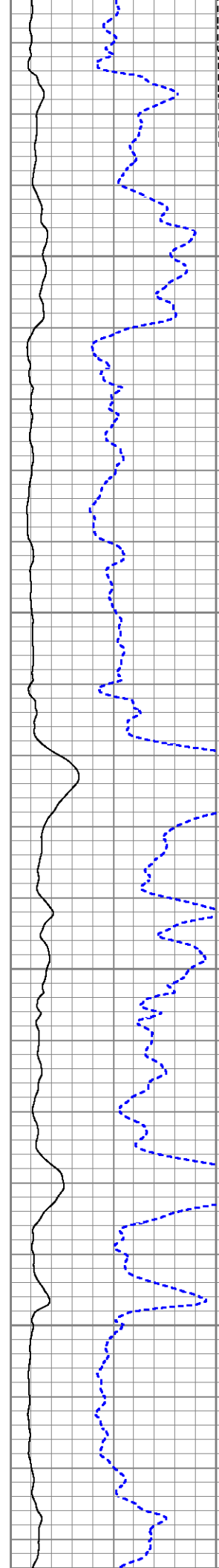
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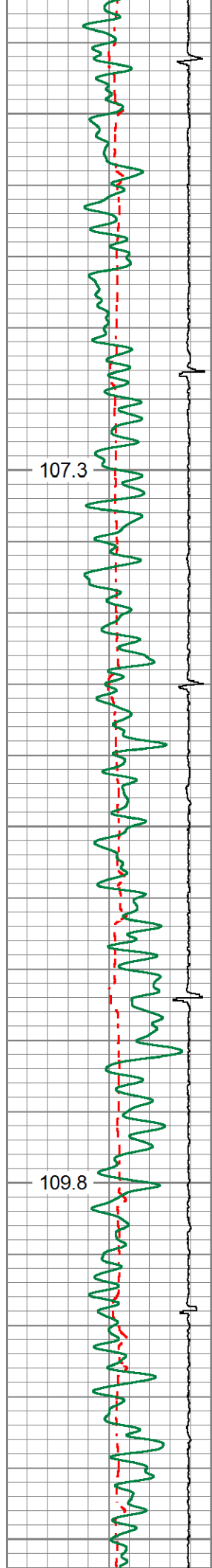
104.8



2000

2100



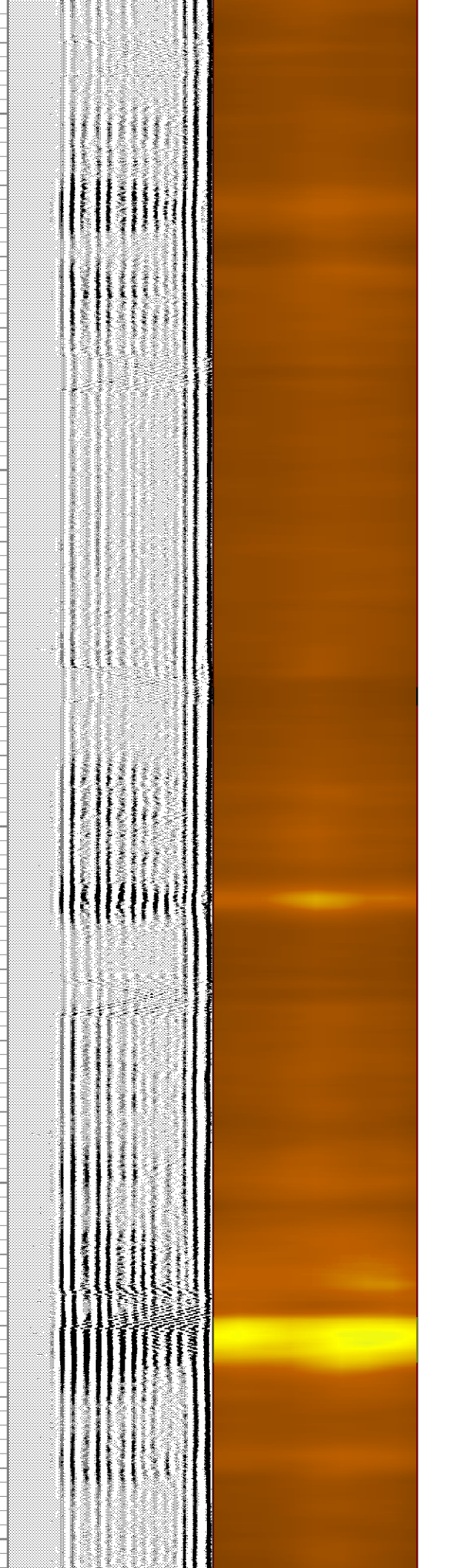
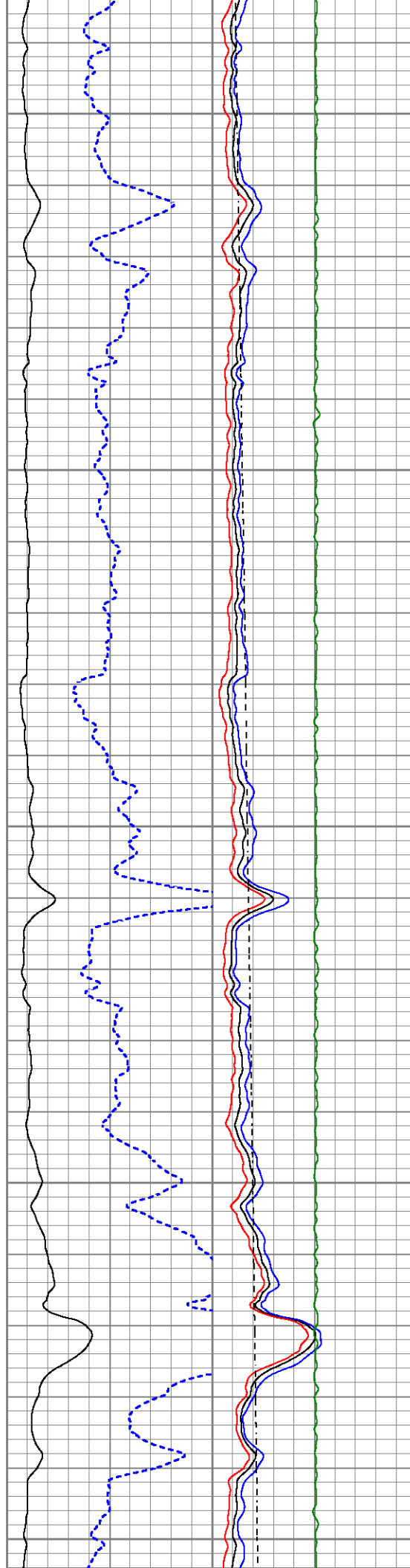


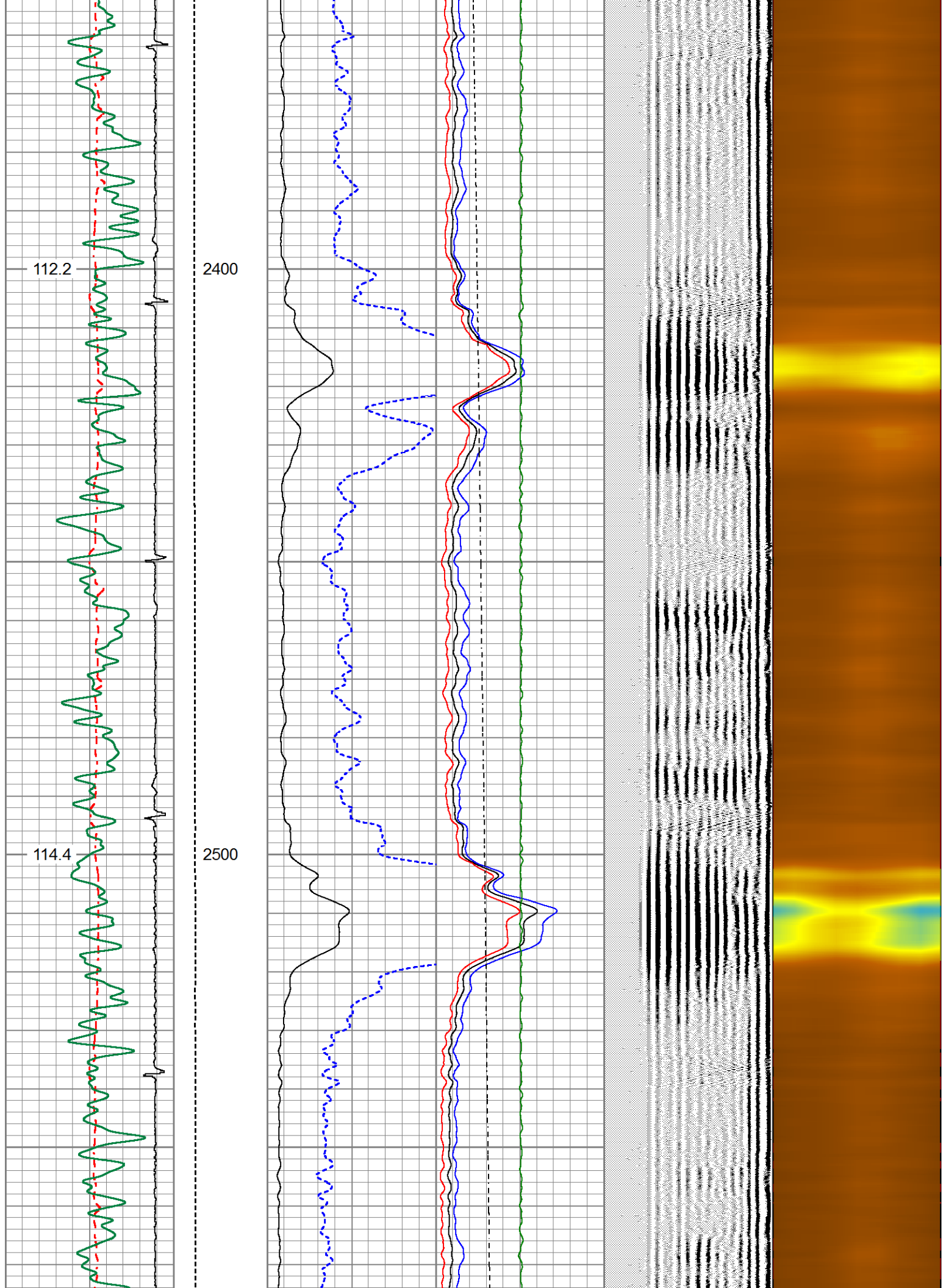
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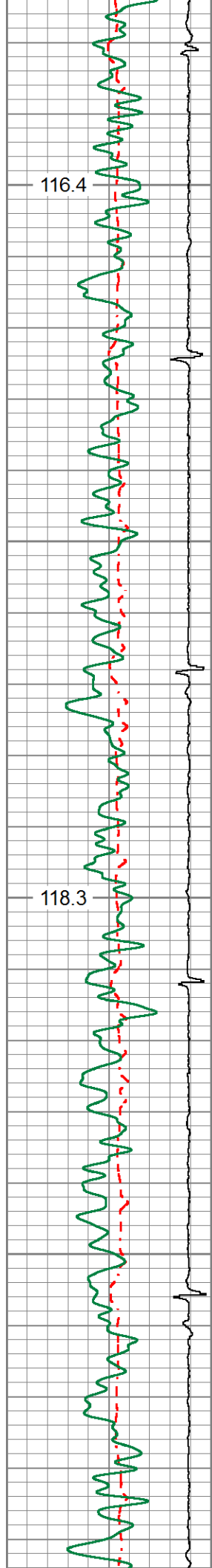
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2200

2300

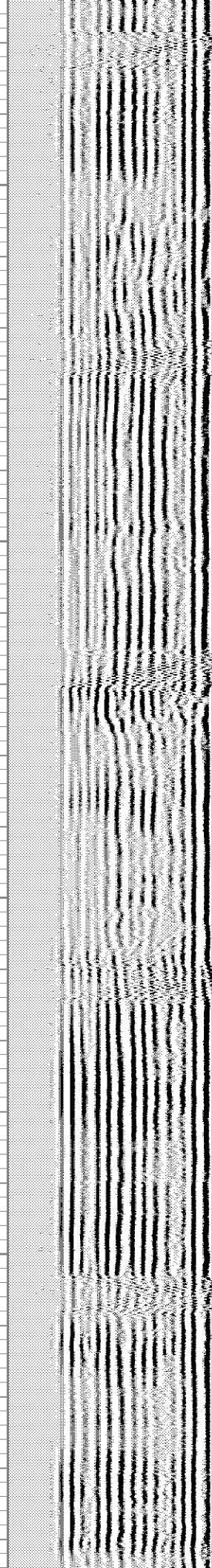
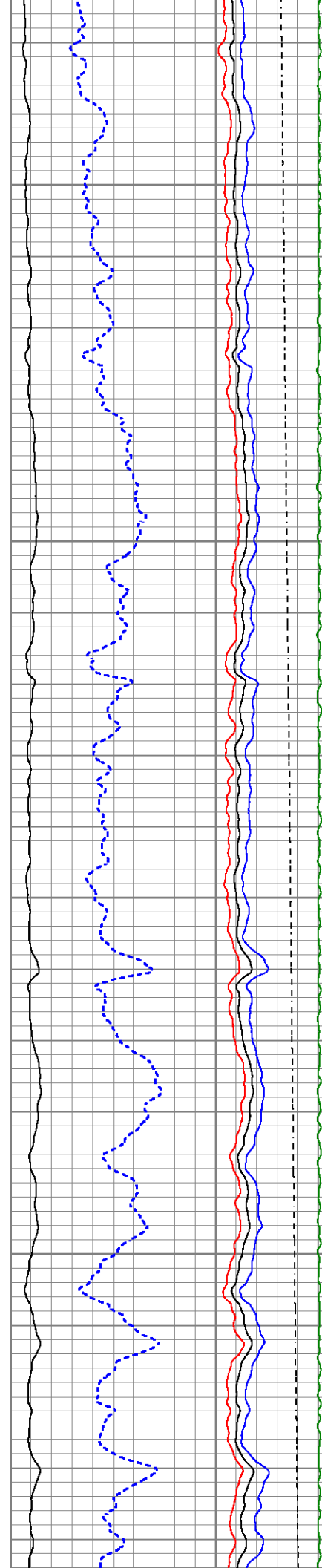


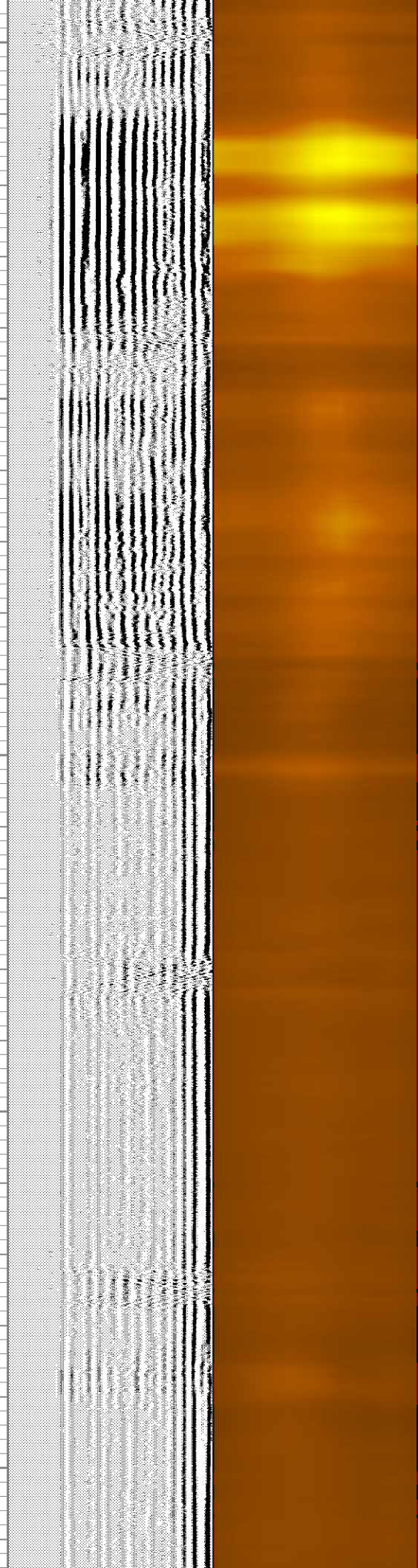
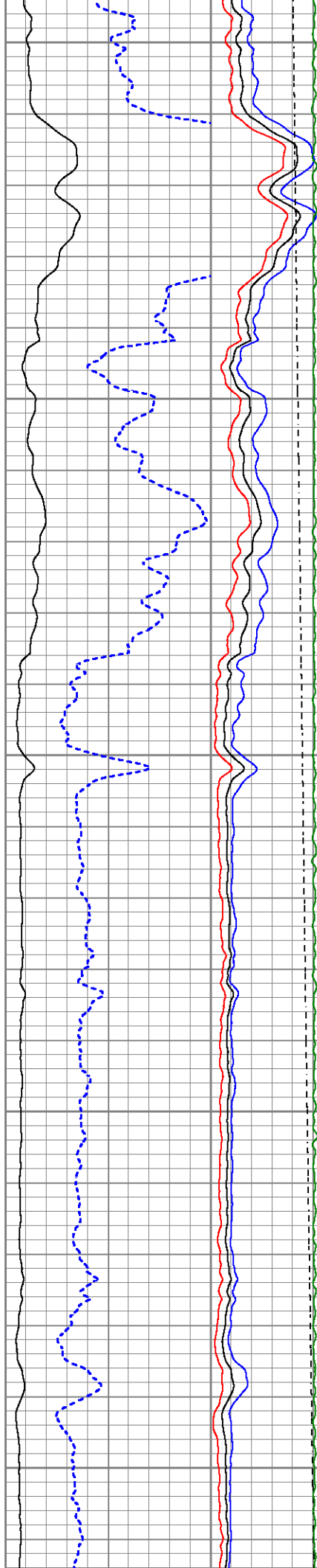
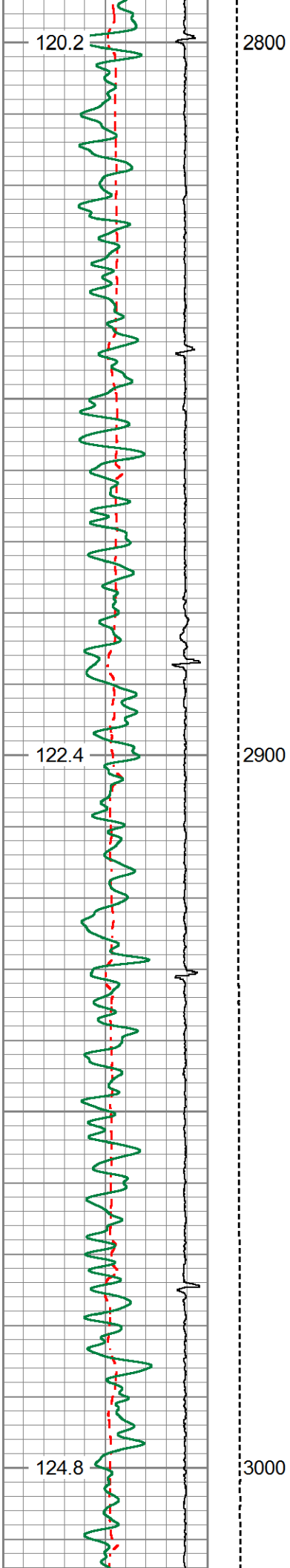


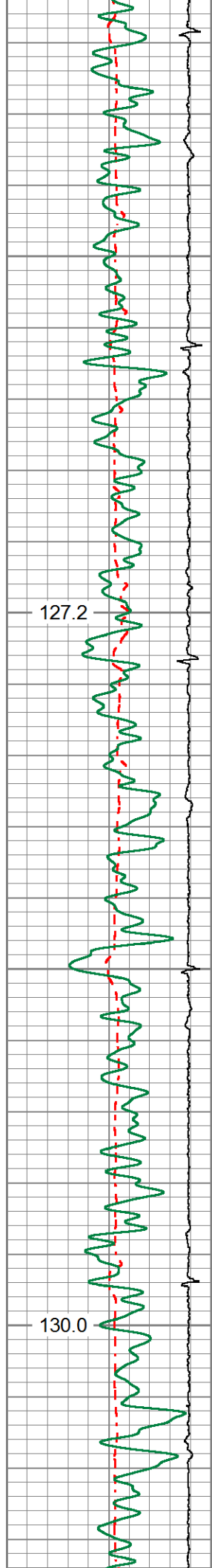


2600

2700

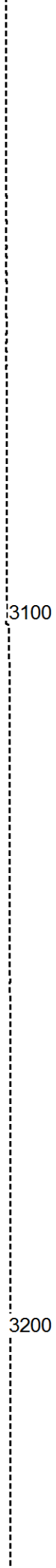






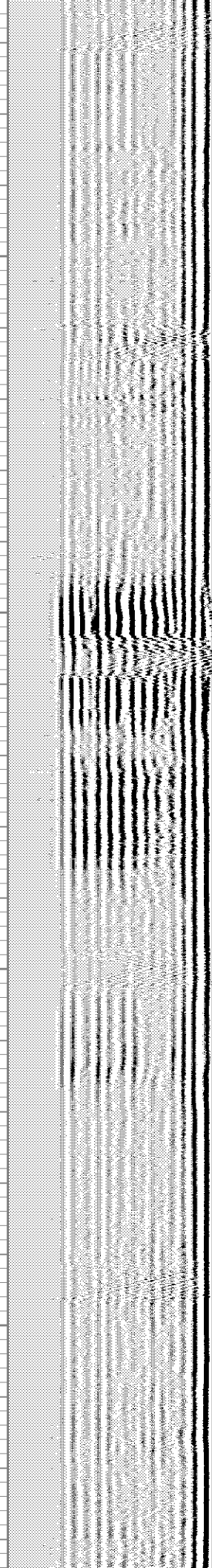
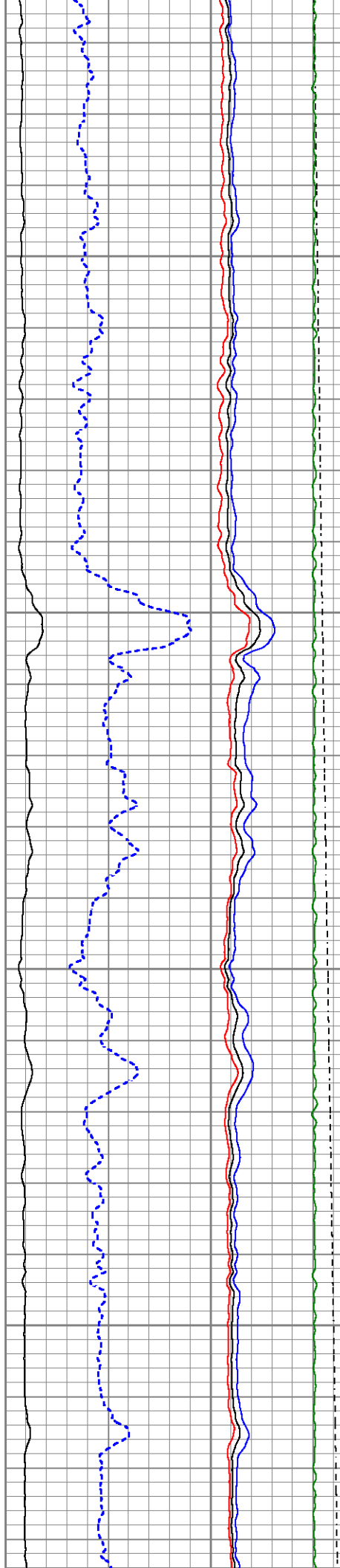
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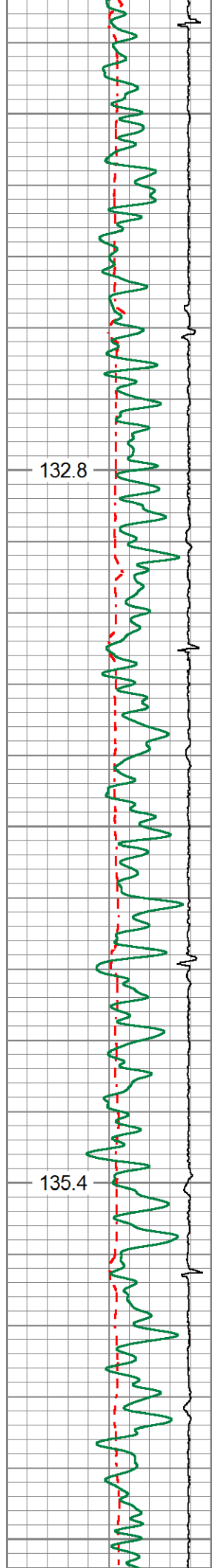
130.0



3100

3200





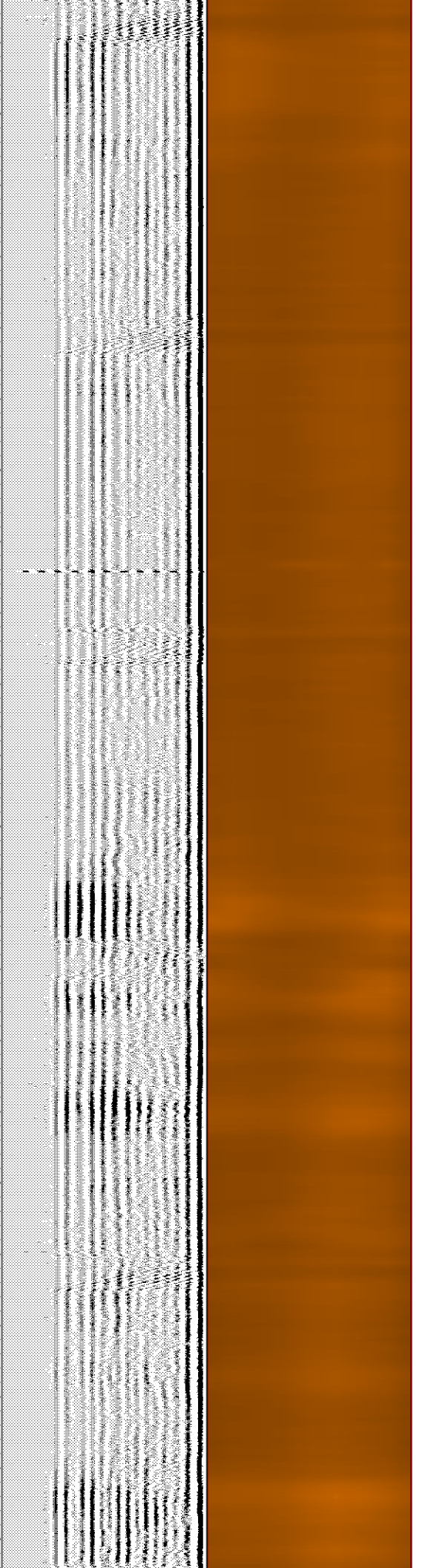
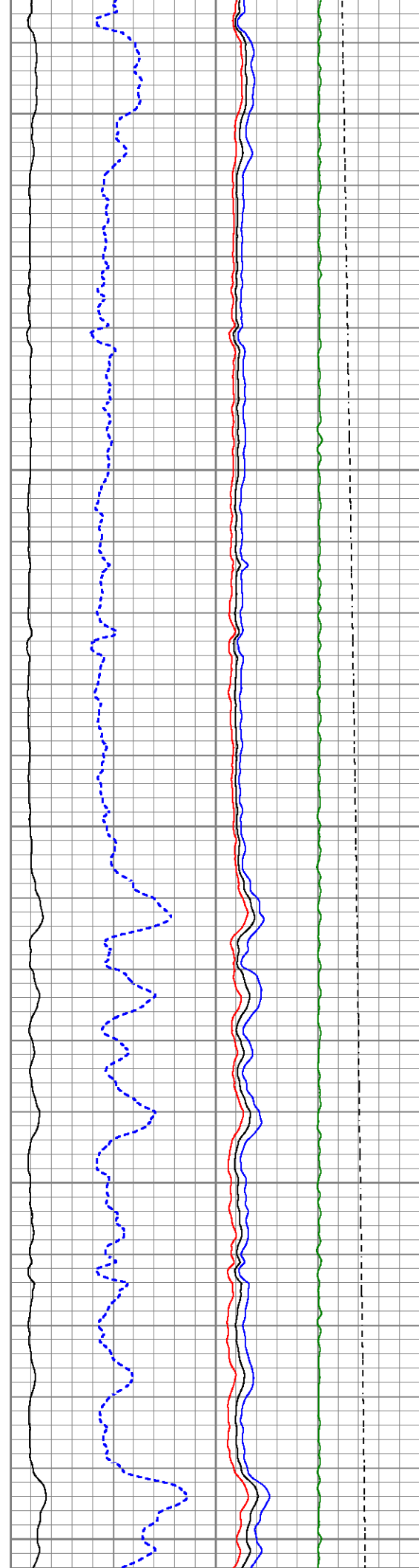
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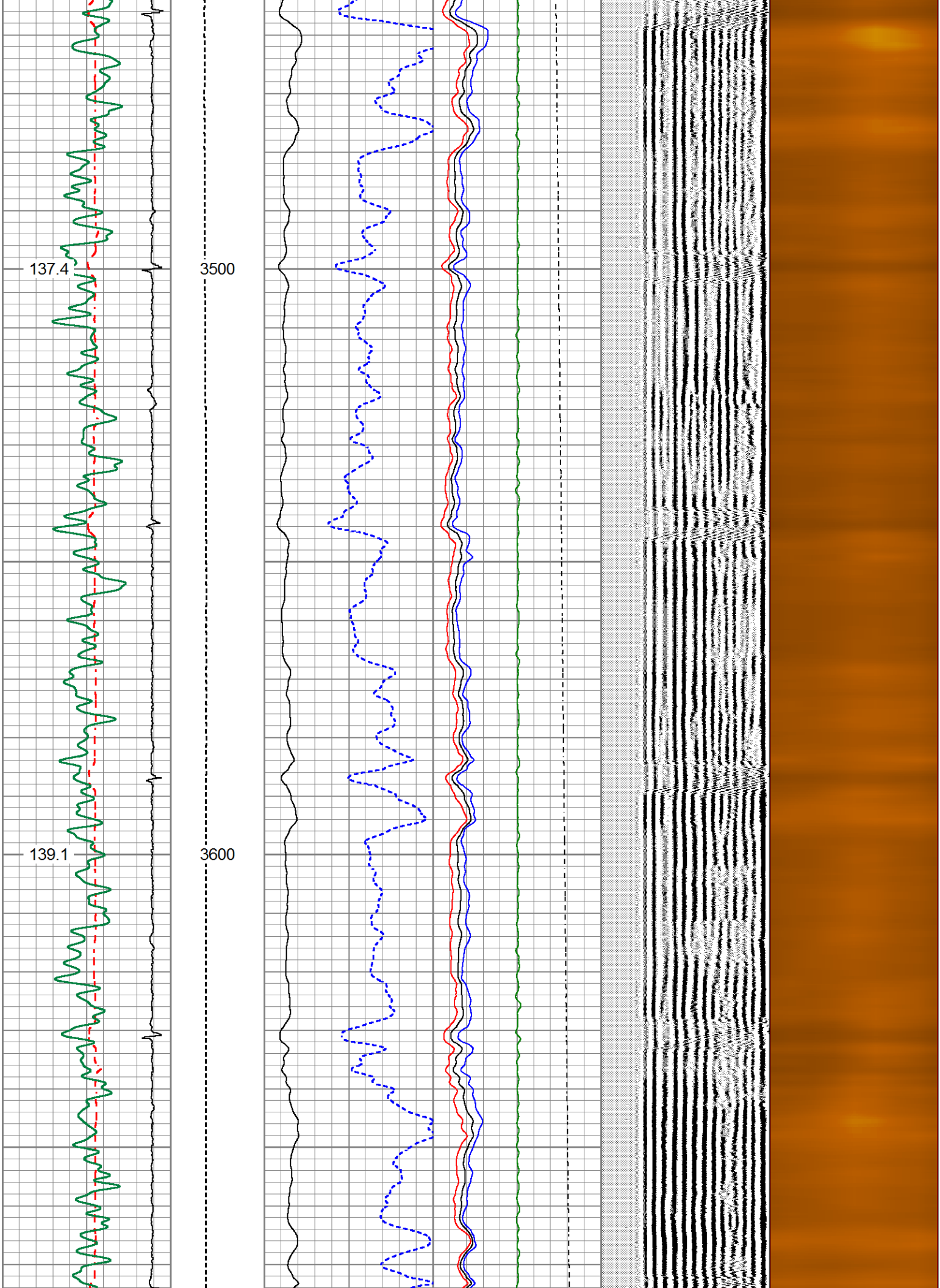
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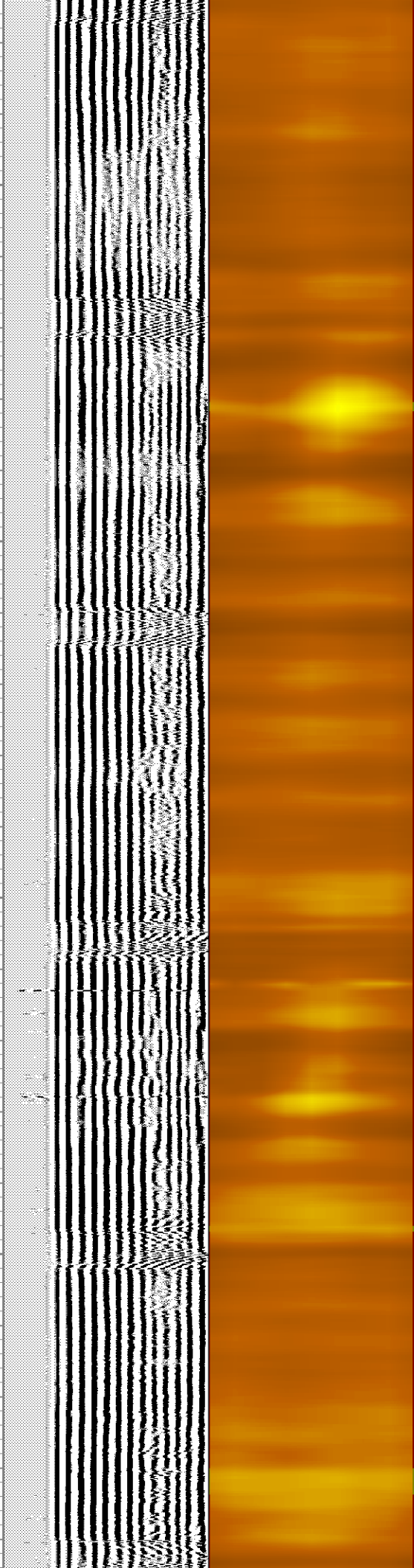
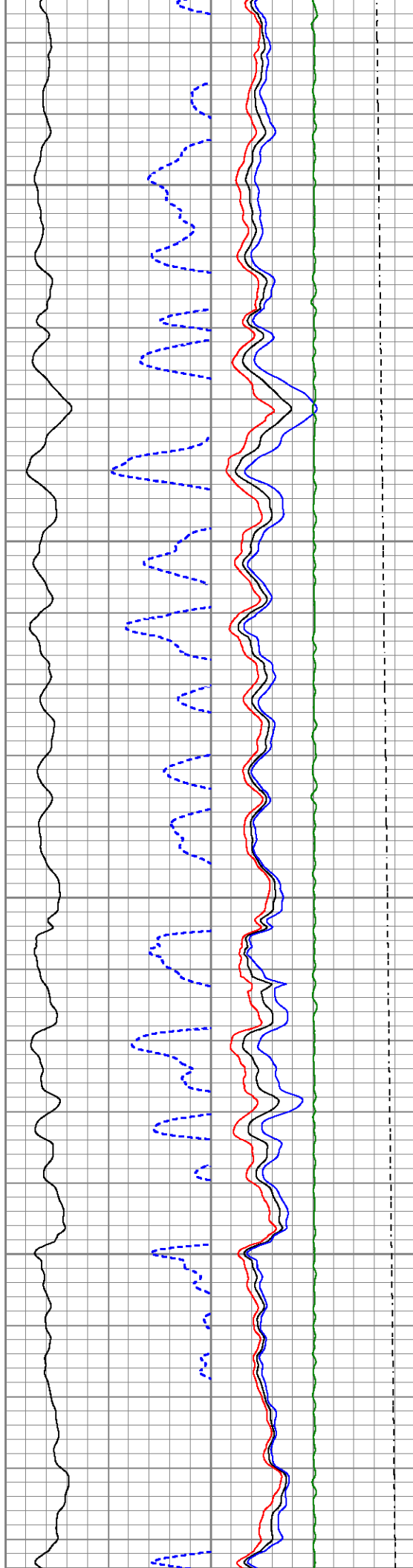
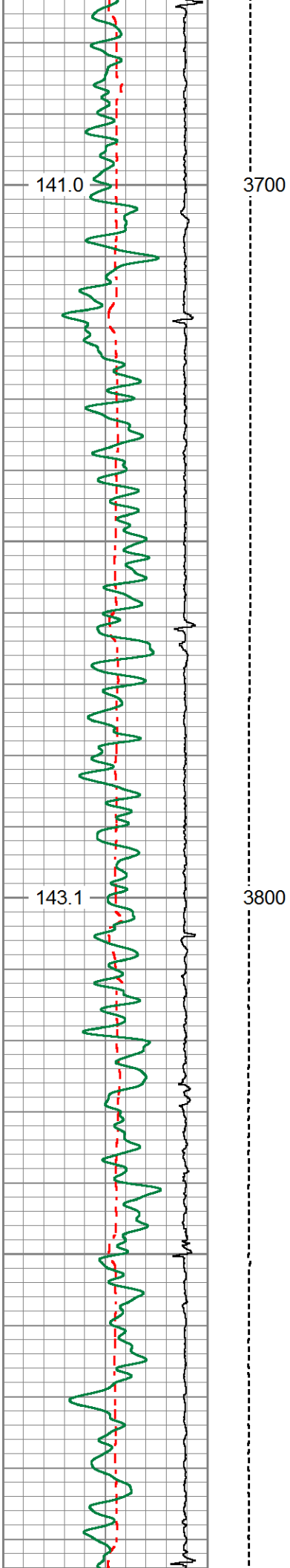


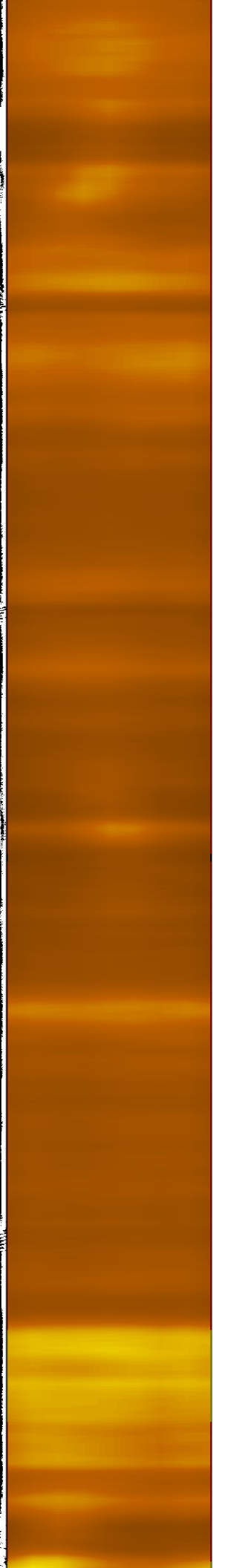
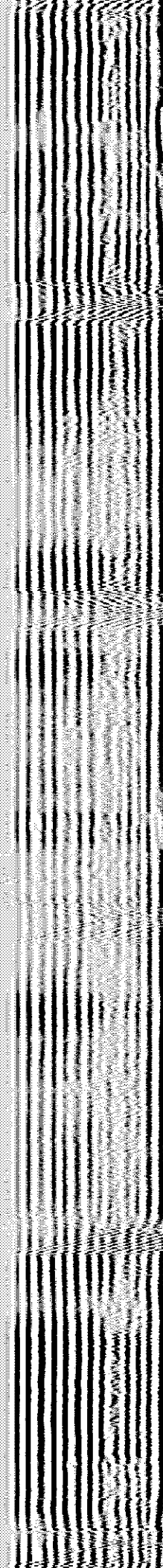
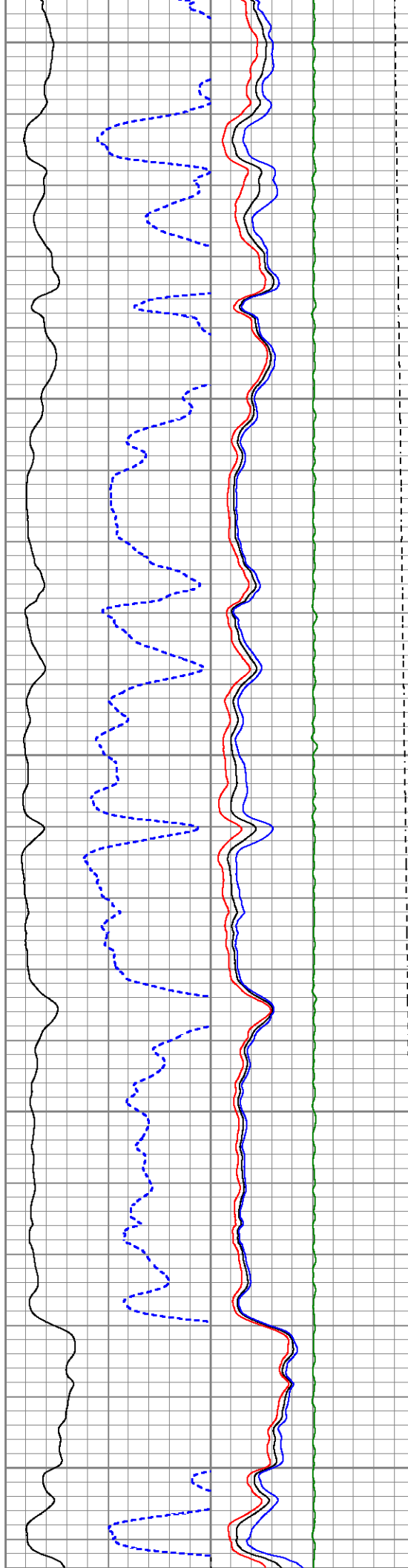
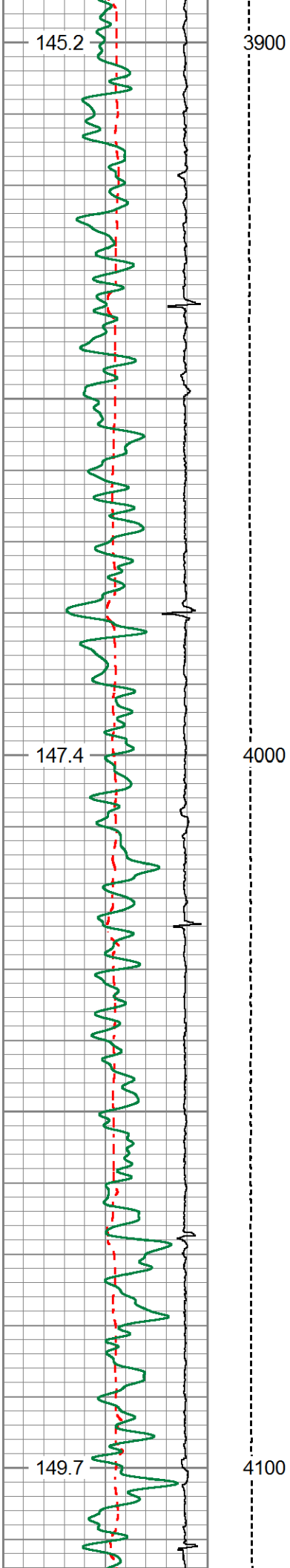
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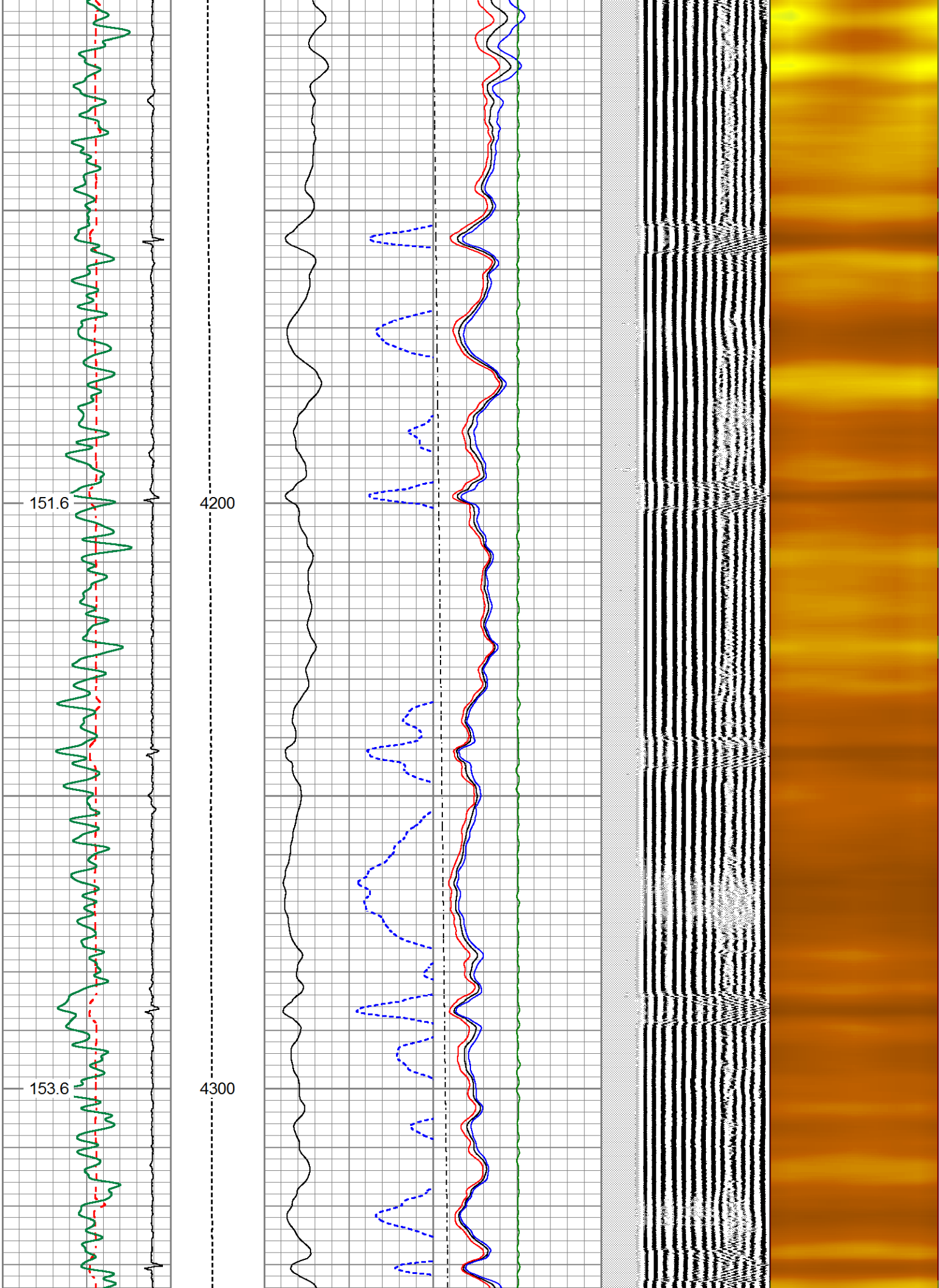
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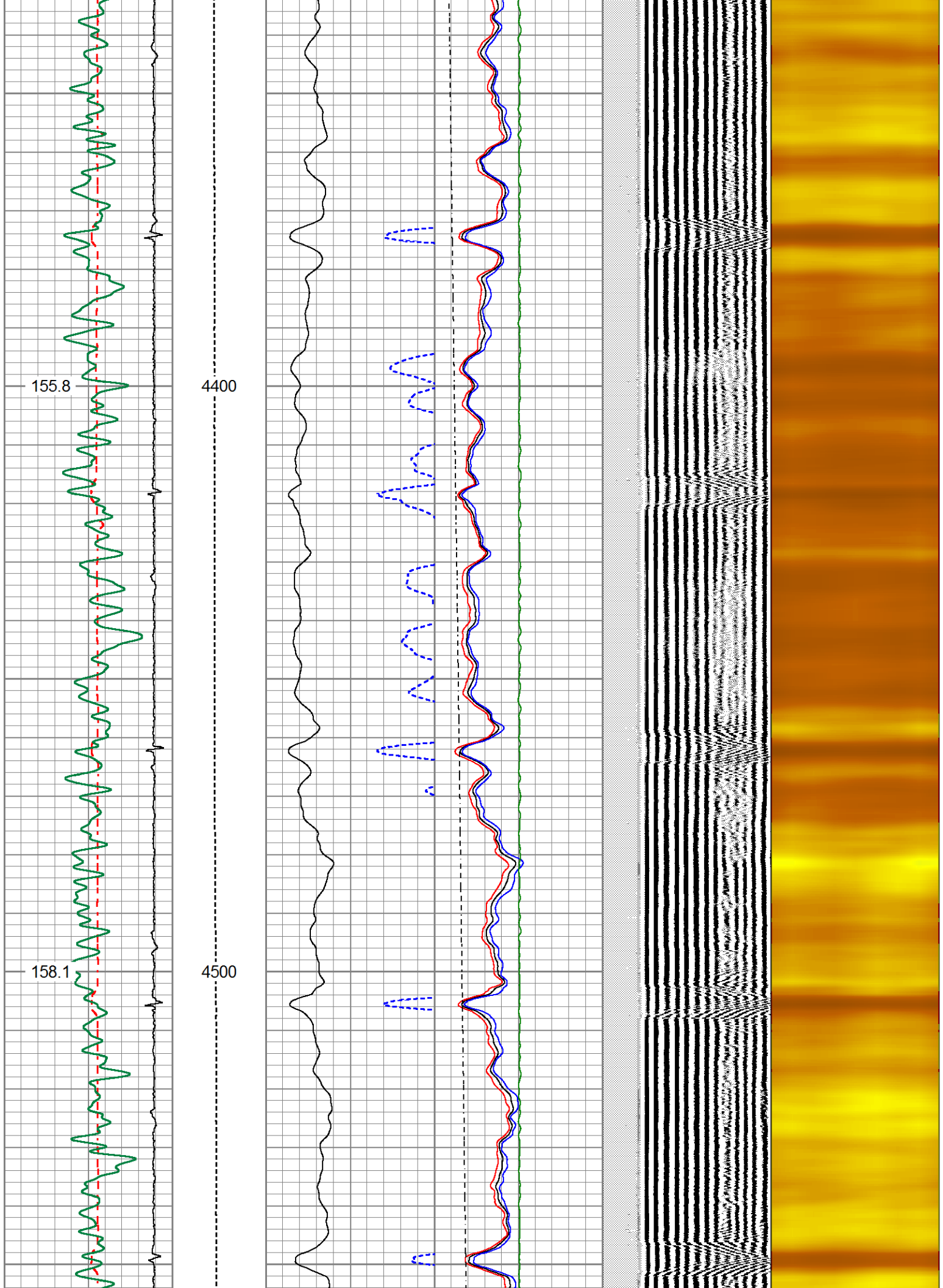


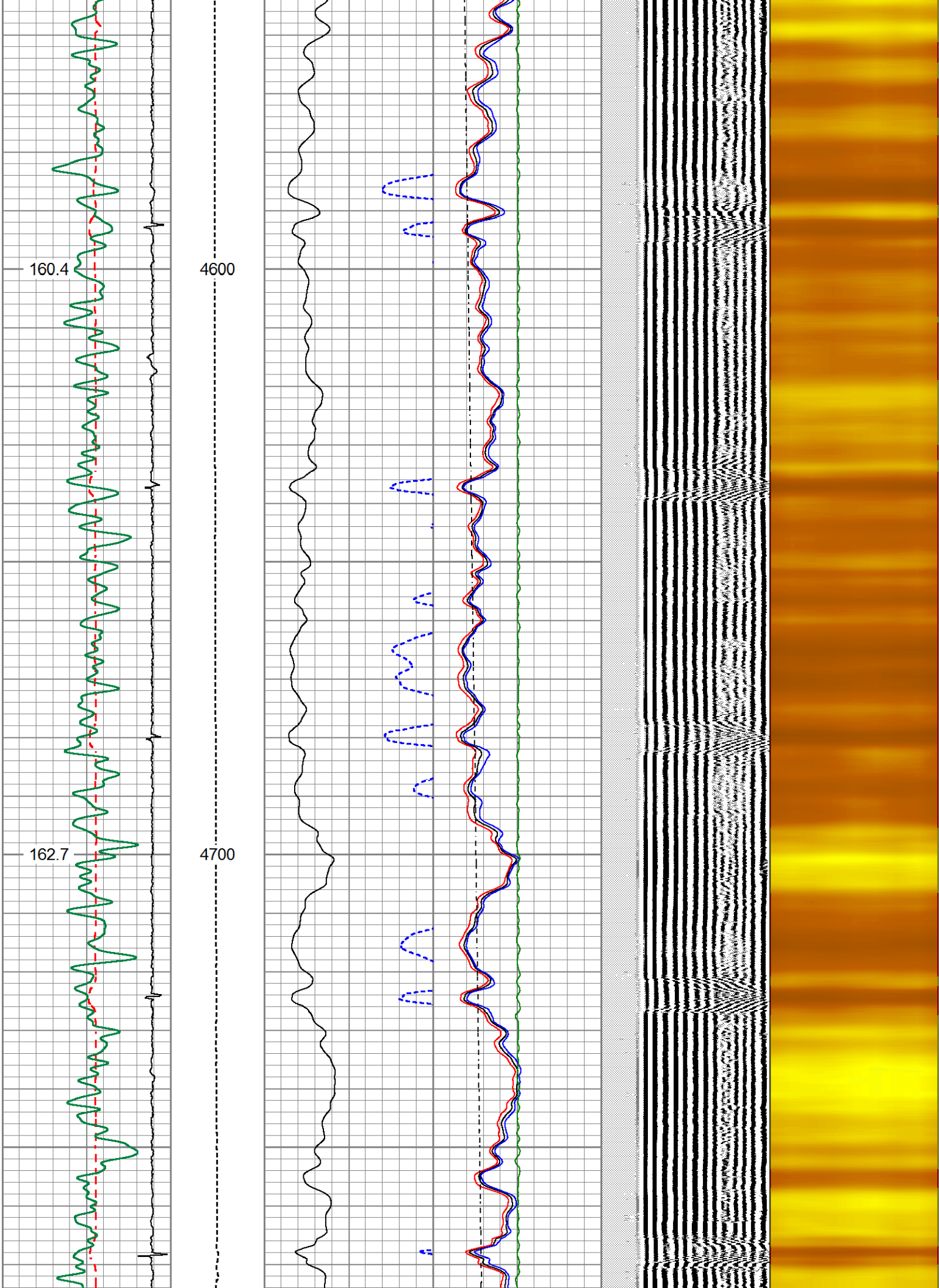


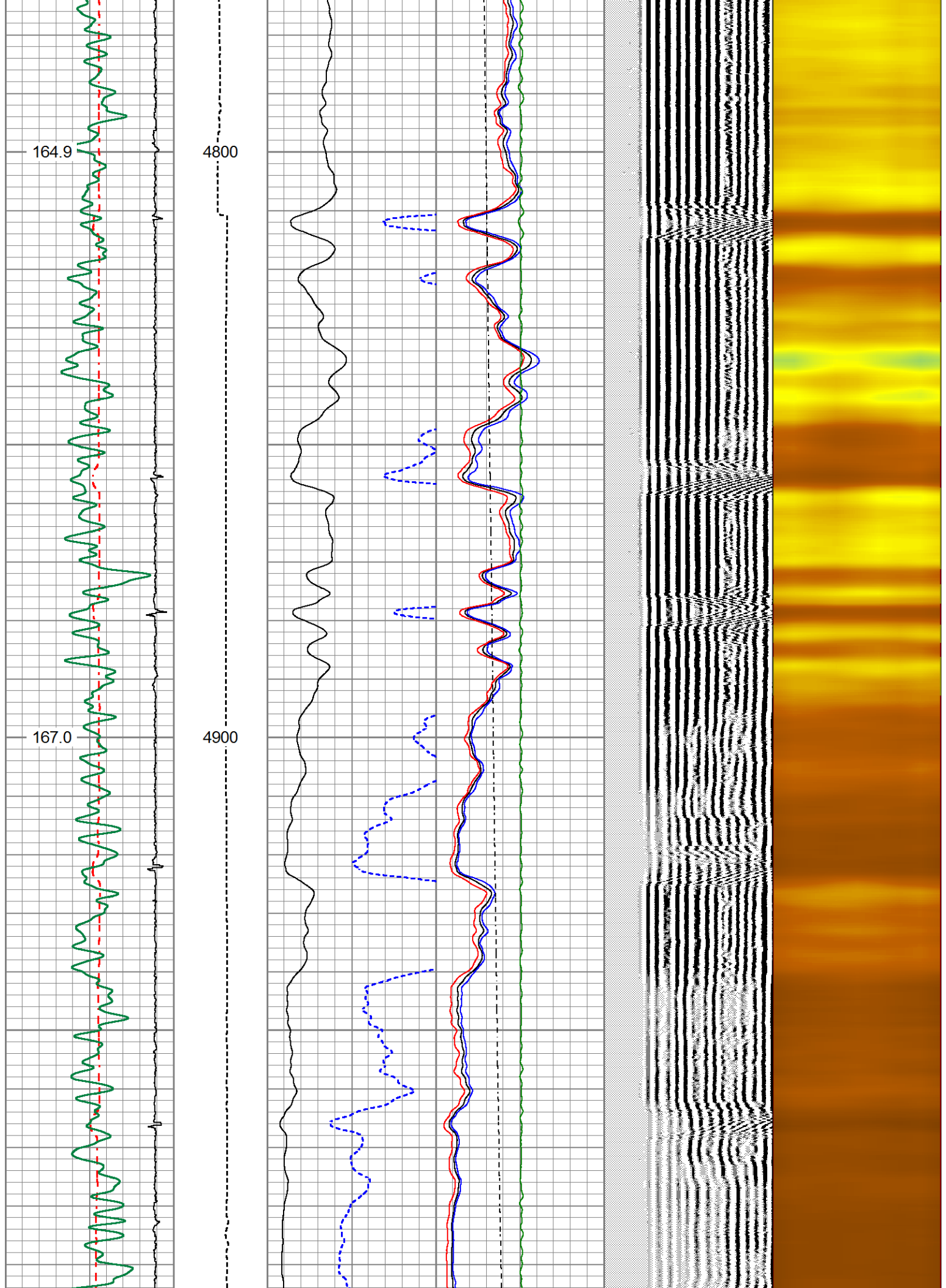


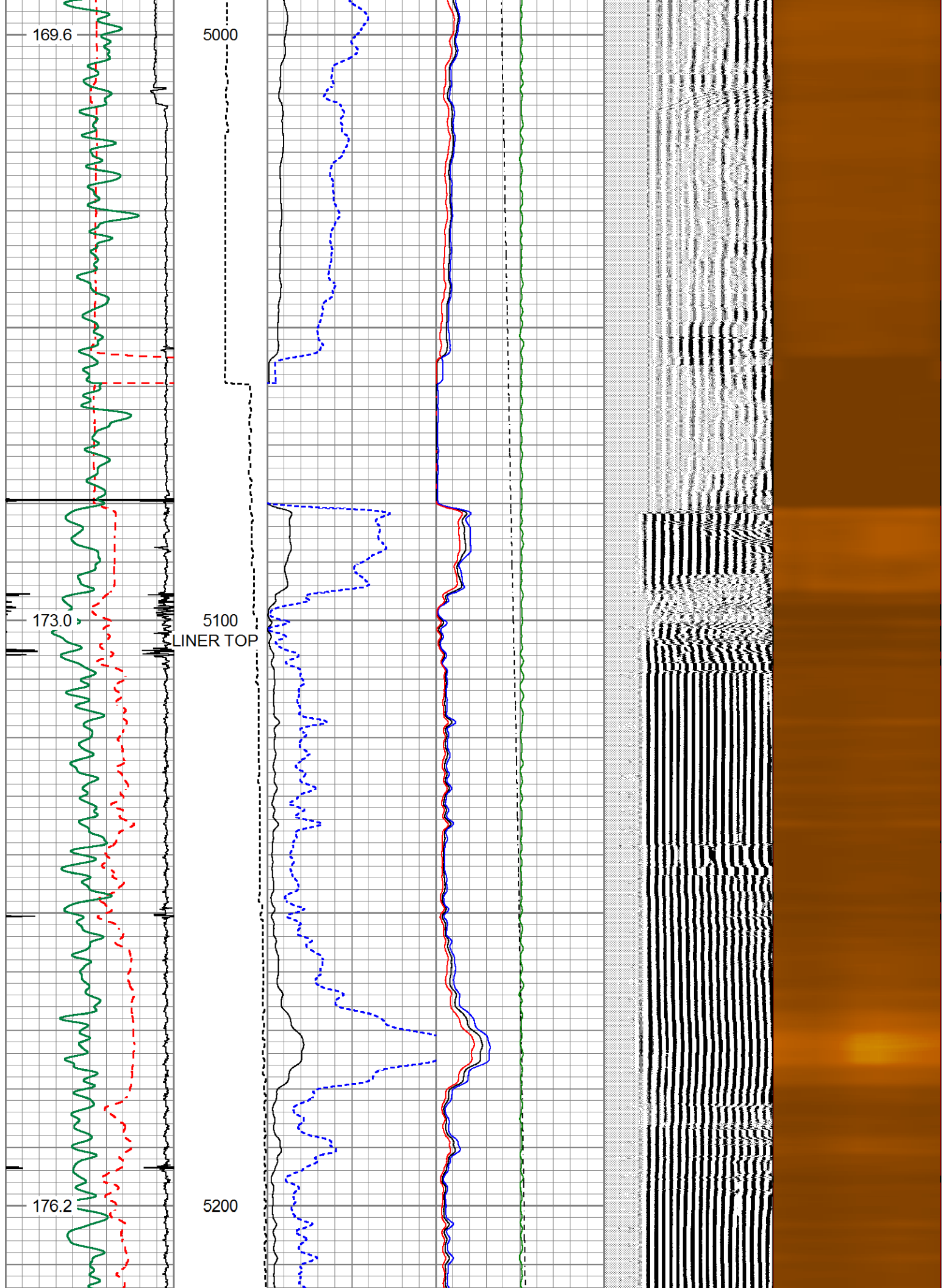


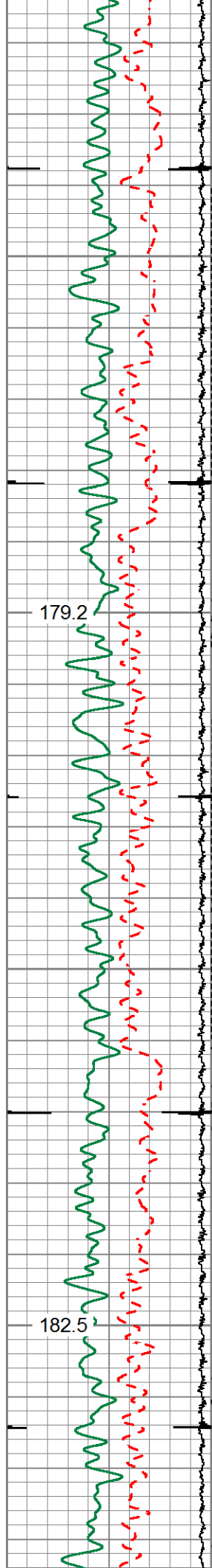










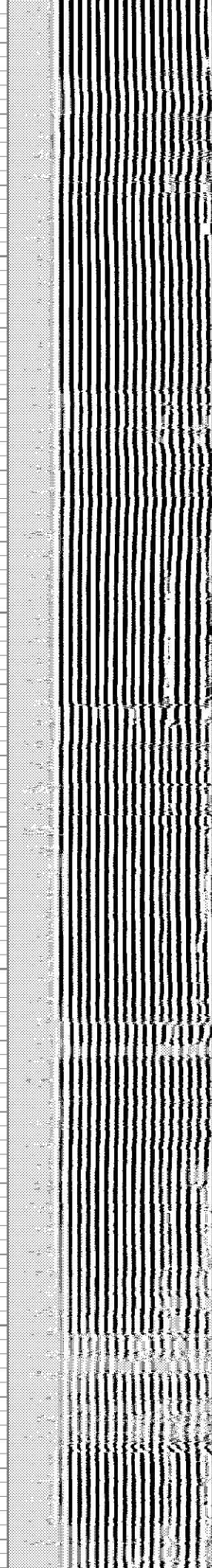
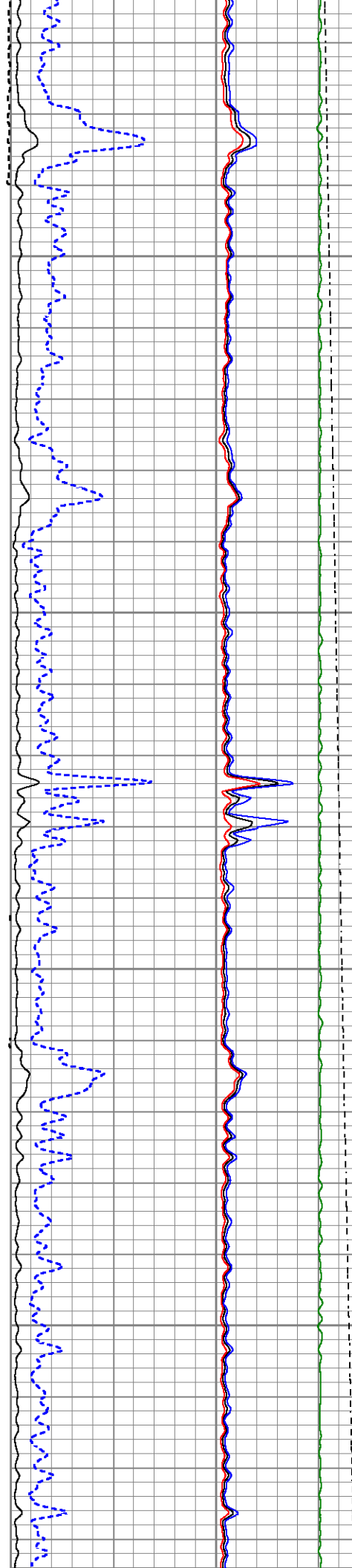


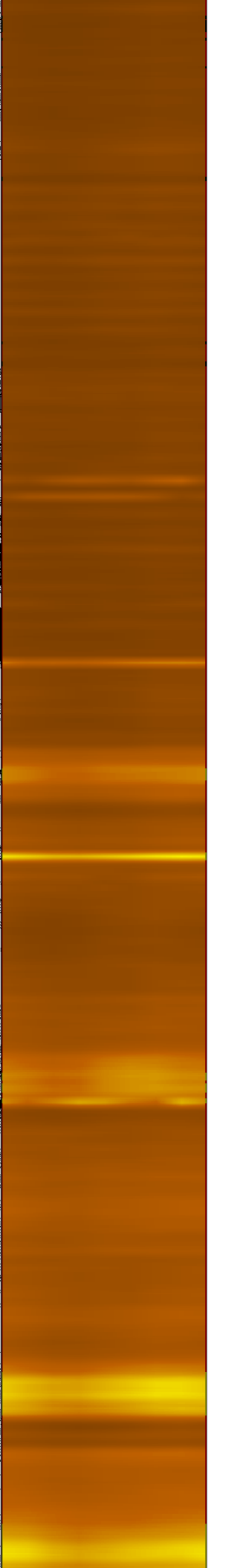
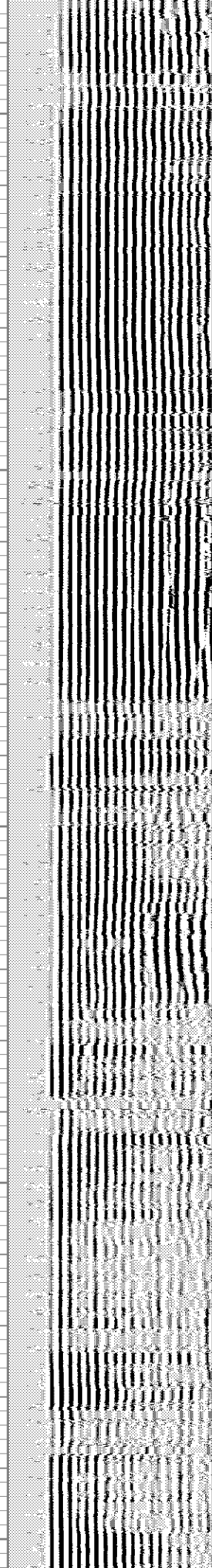
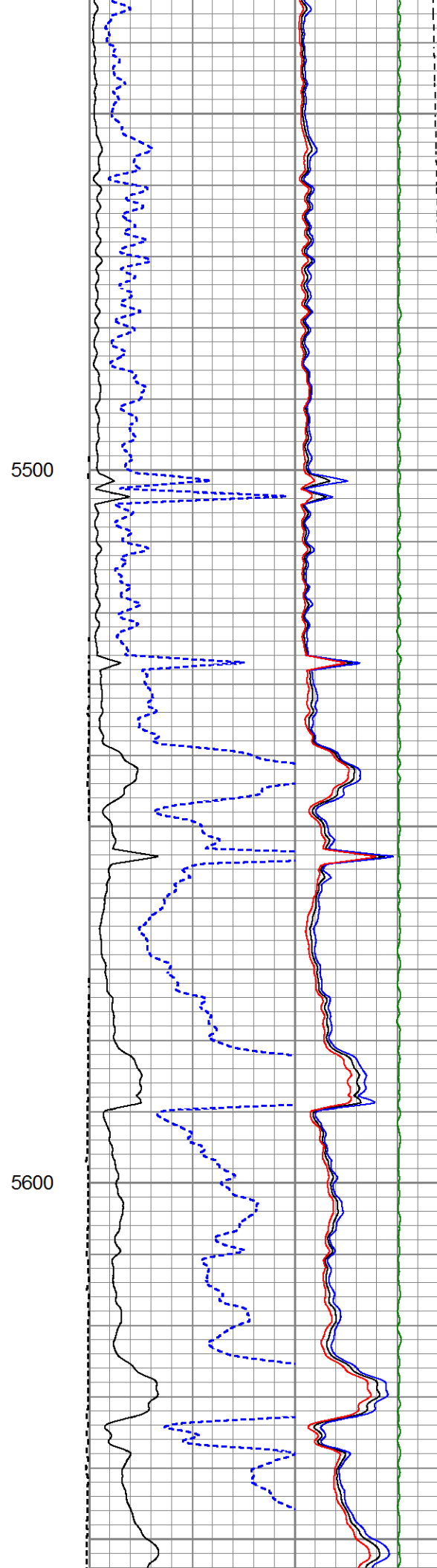
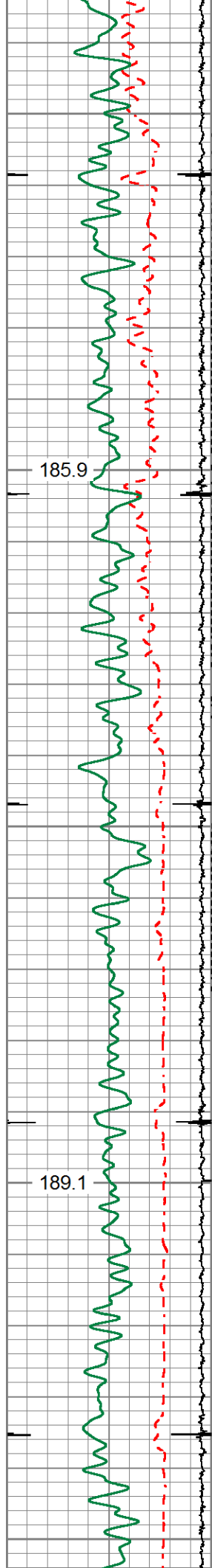
179.2

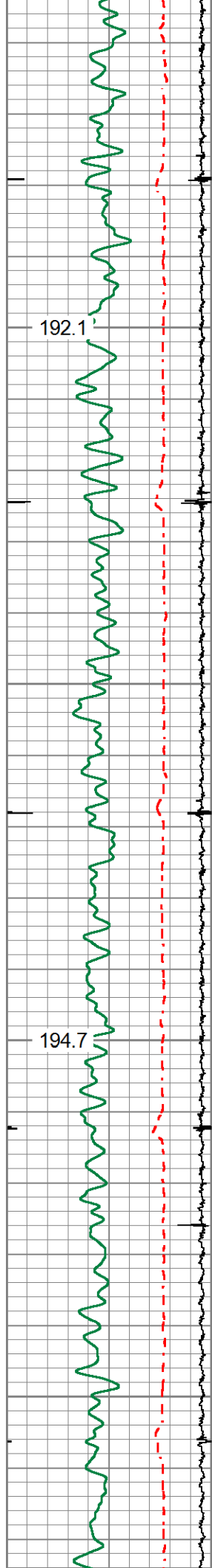
182.5

5300

5400

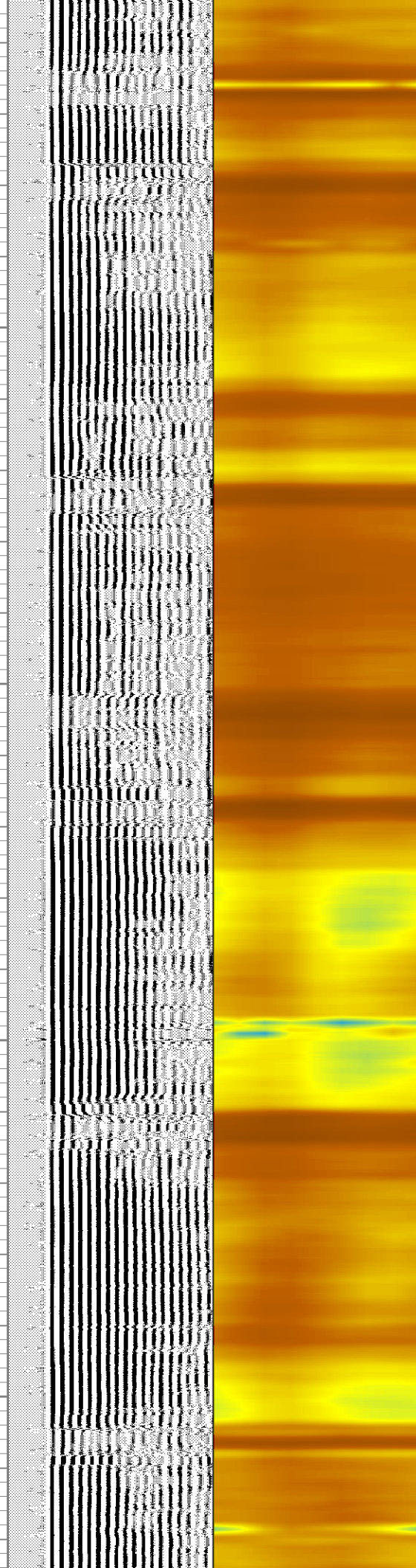
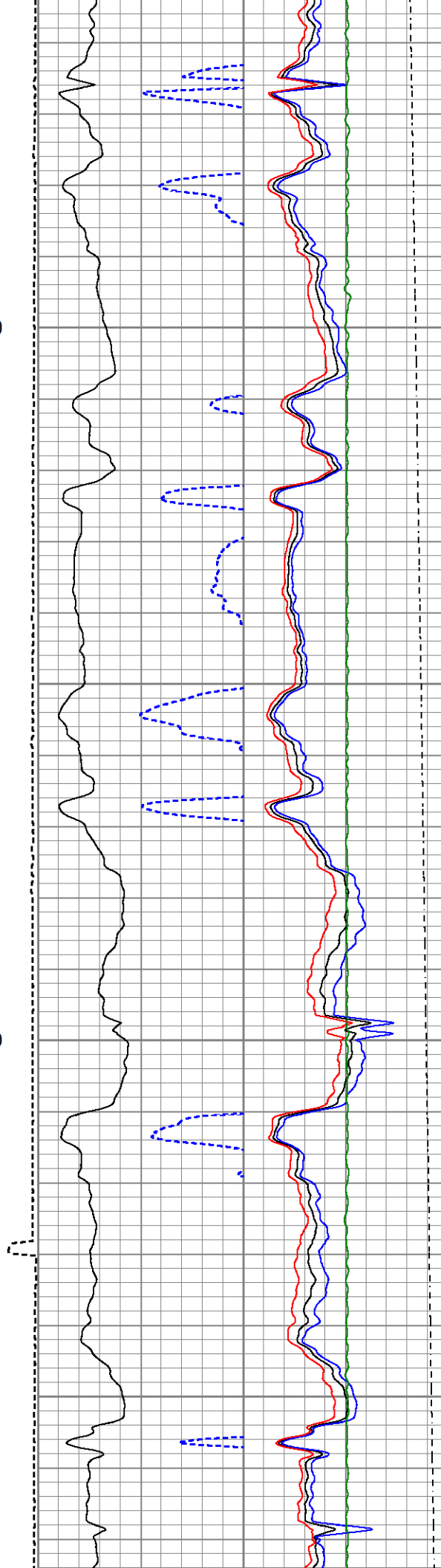


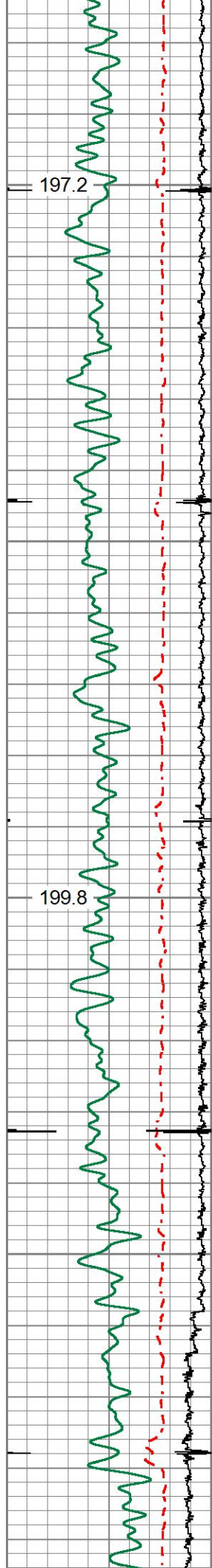




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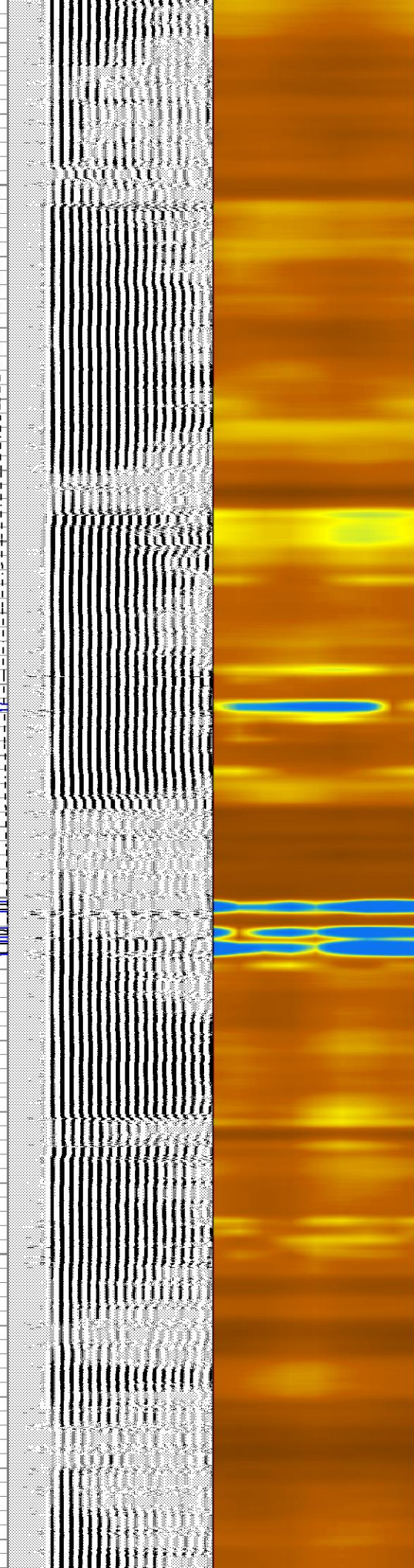
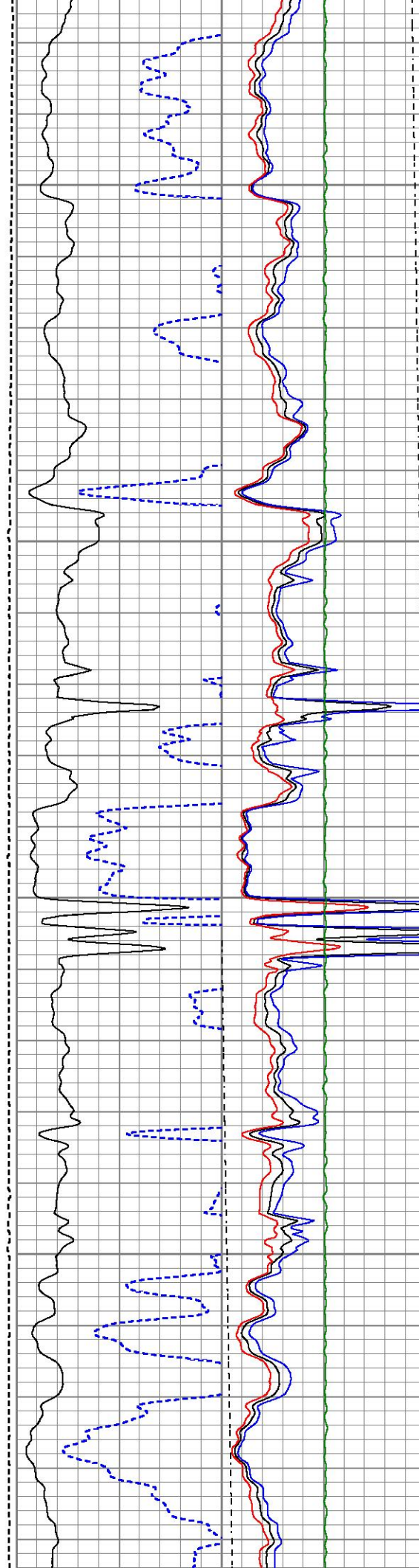
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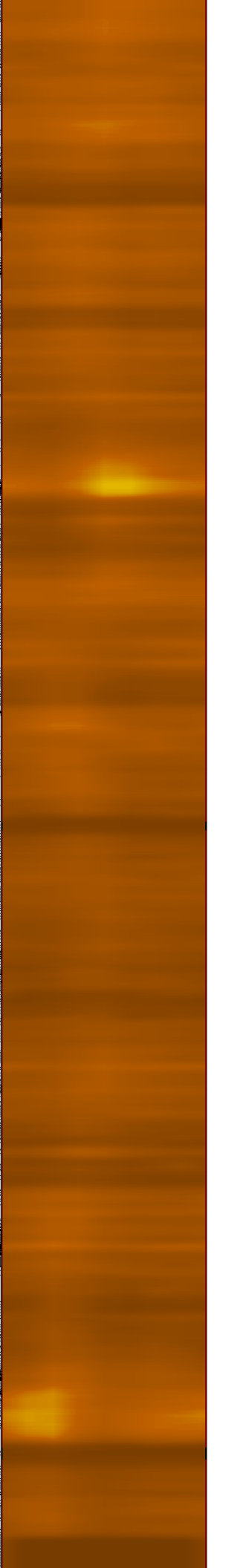
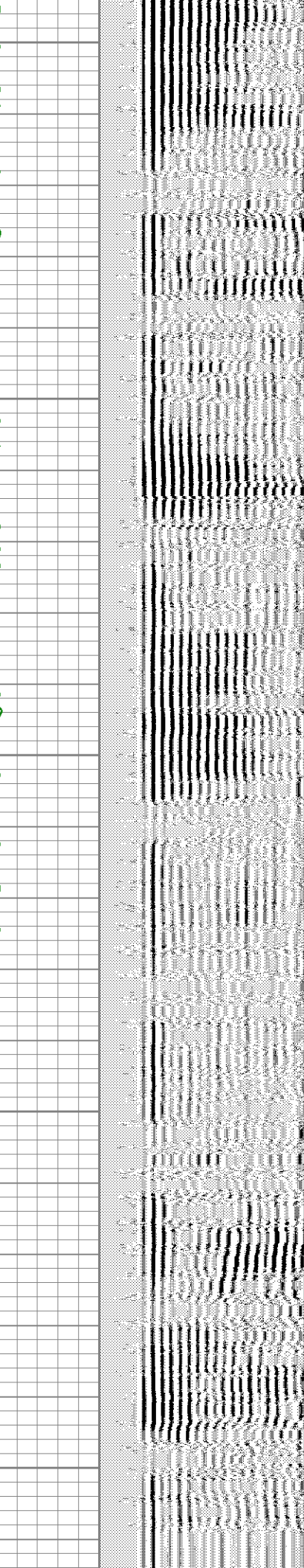
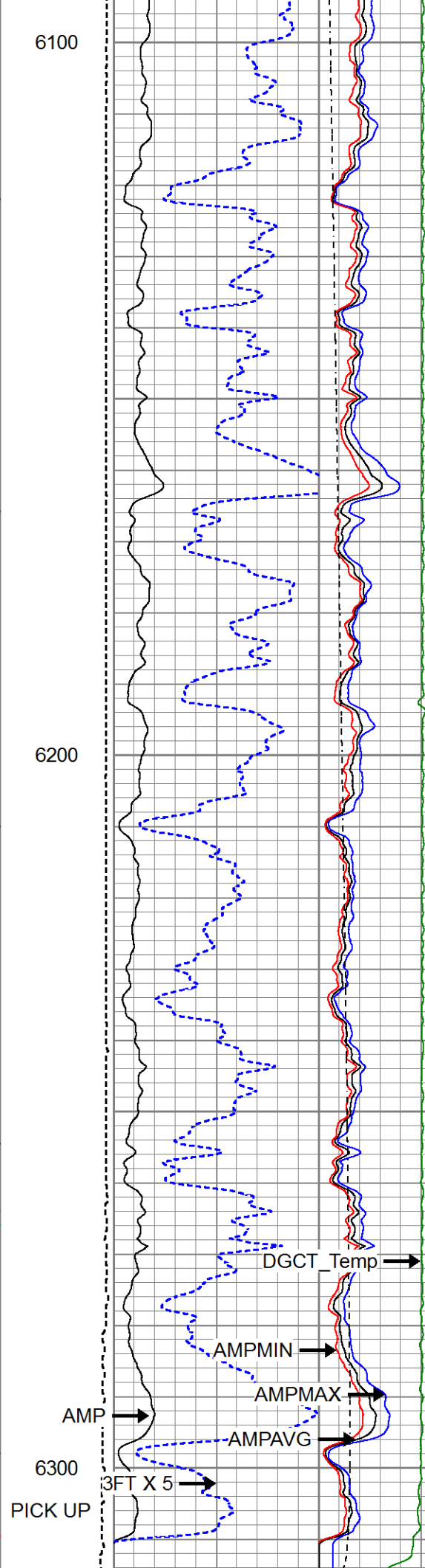
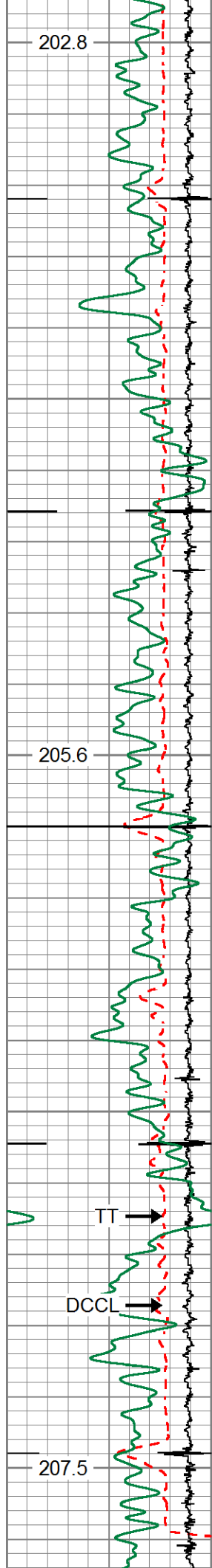


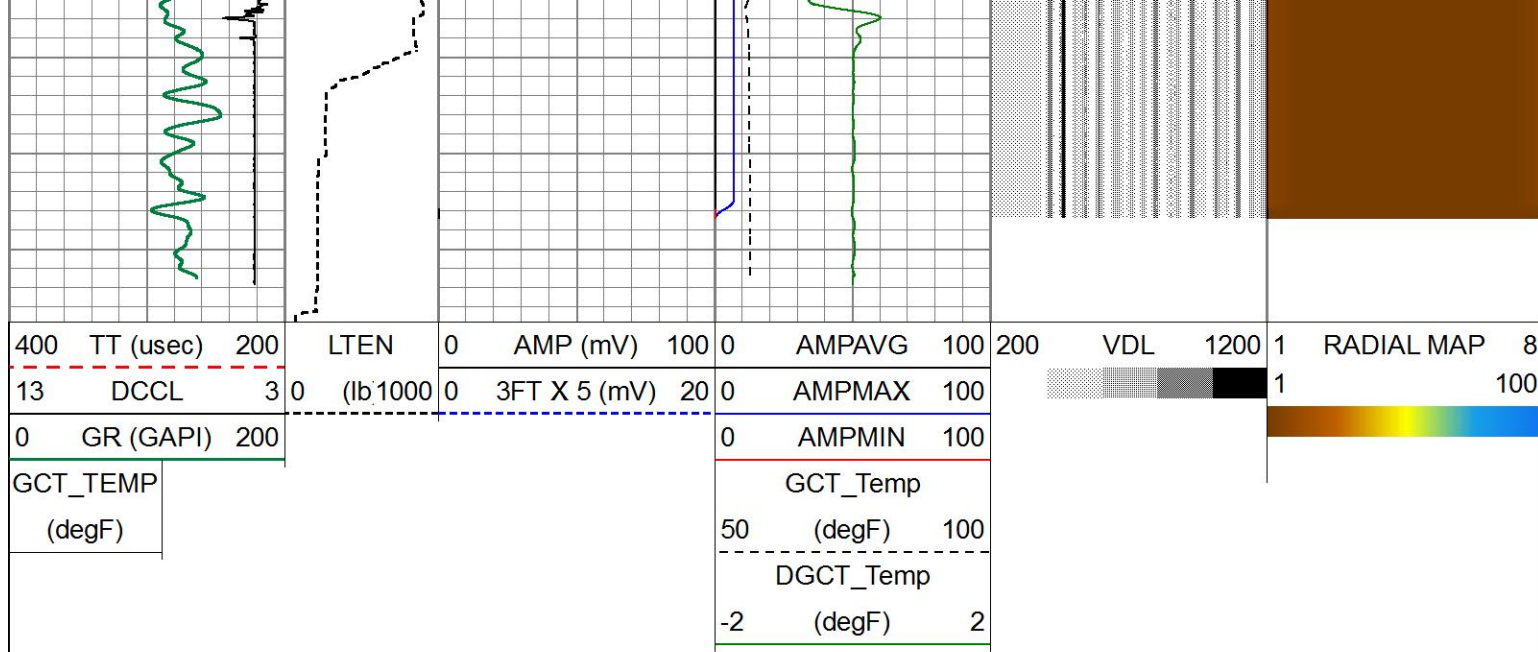


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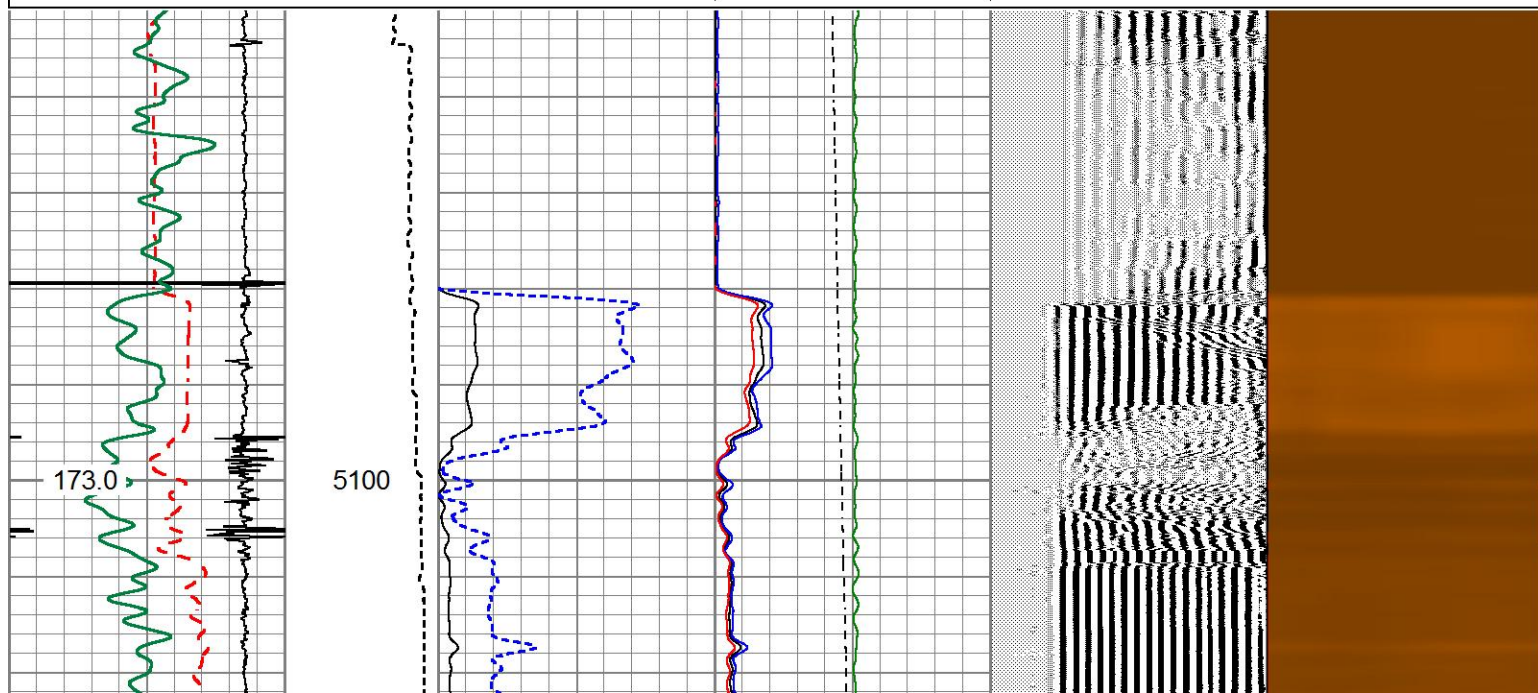
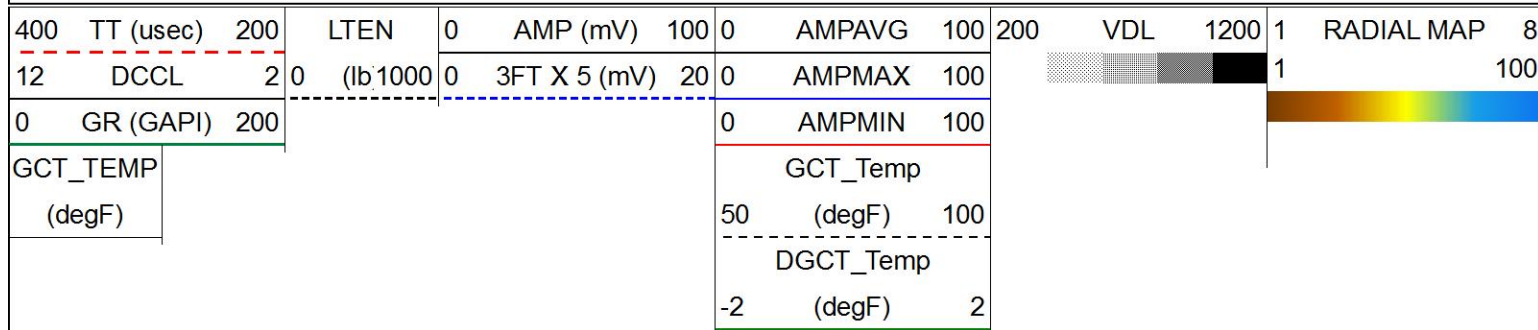


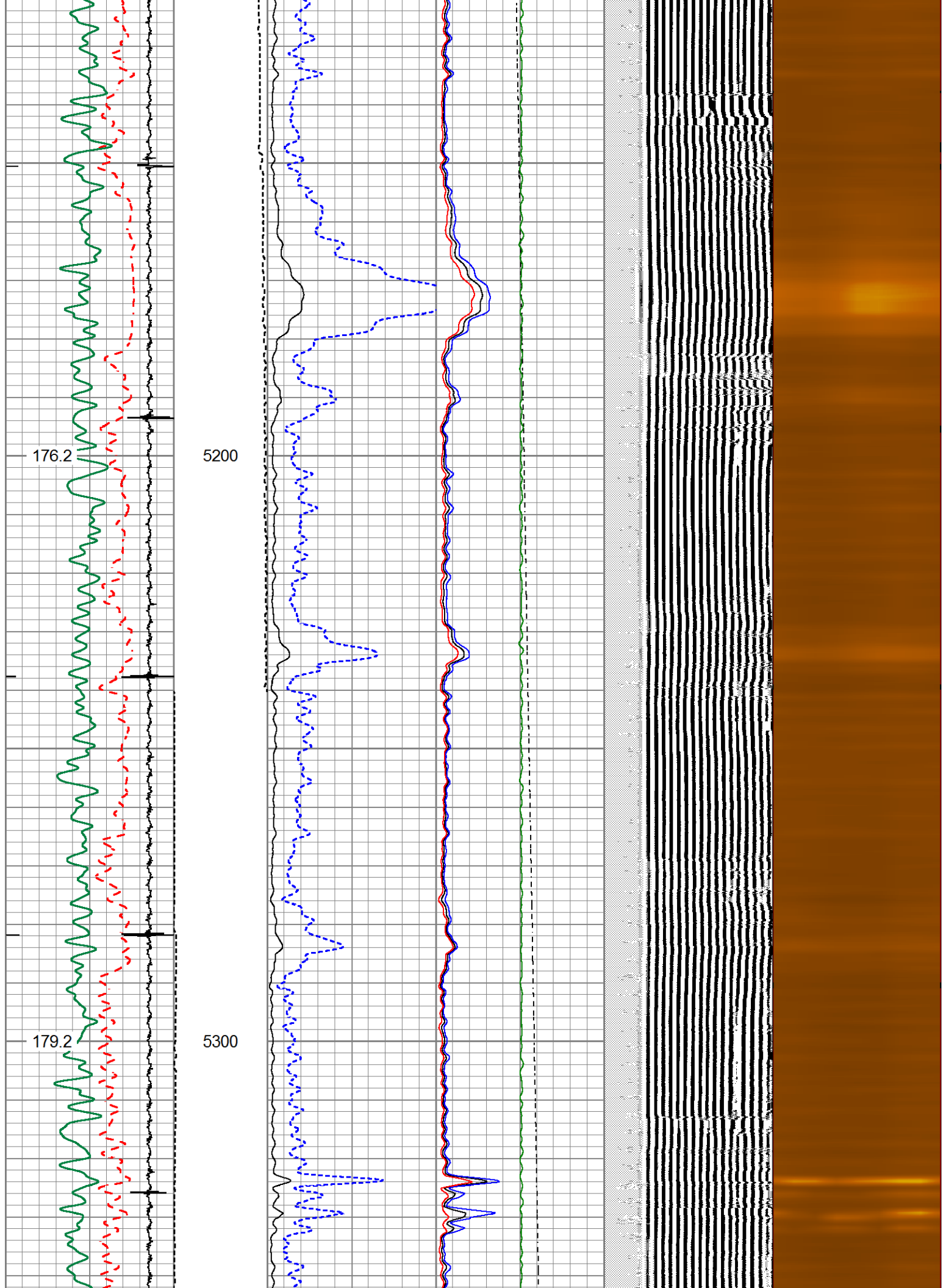


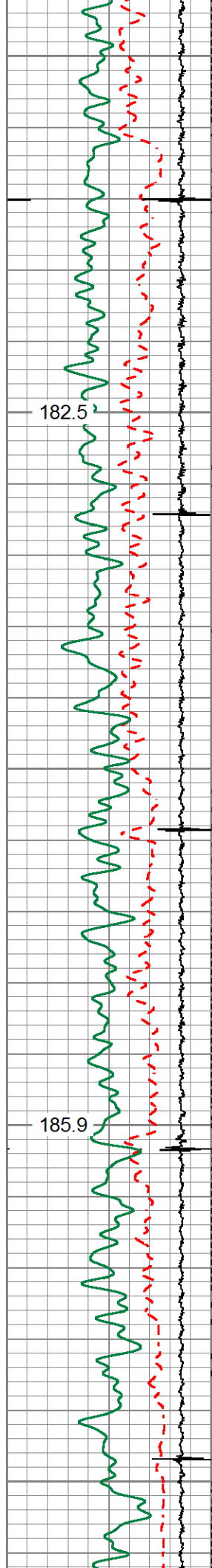


MAIN PASS

Database File: anschutz eq farms 4-62-33-1724c.db
 Dataset Pathname: pass2
 Presentation Format: 1patriotradii
 Dataset Creation: Mon Apr 02 13:12:41 2018
 Charted by: Depth in Feet scaled 1:240

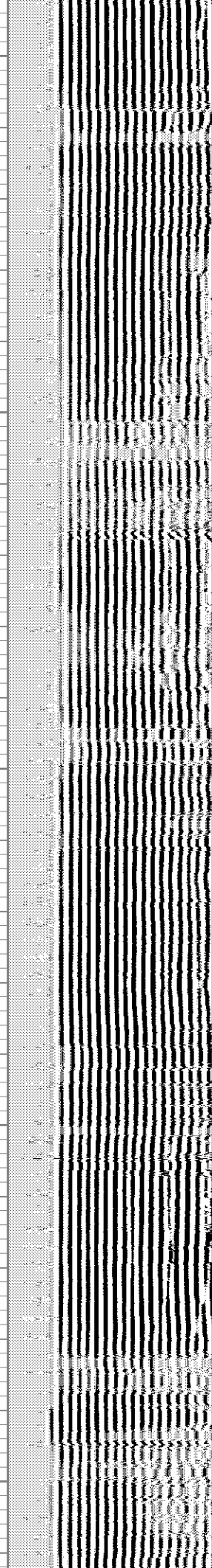
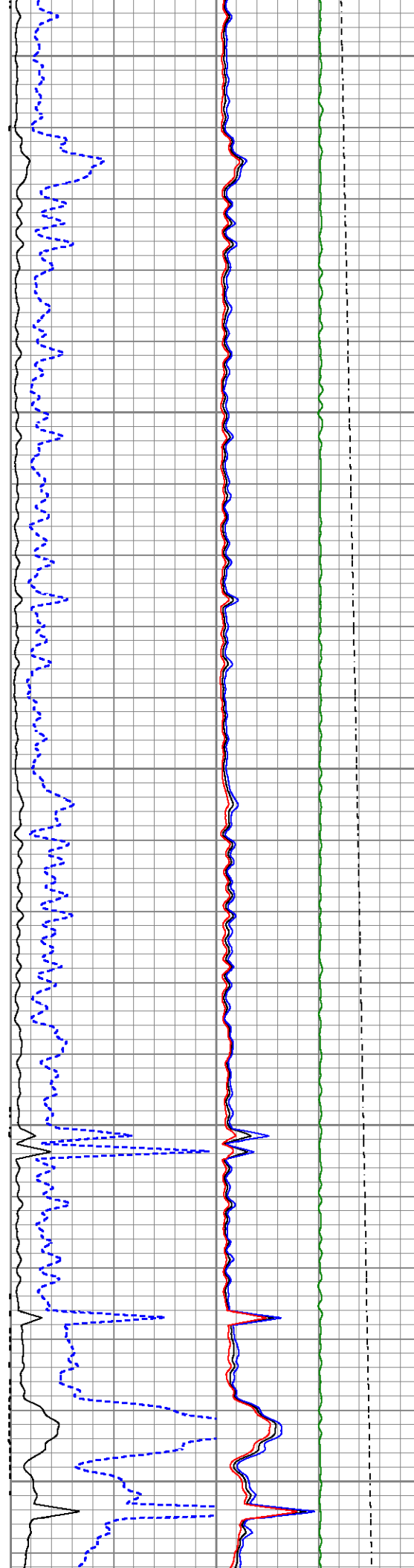


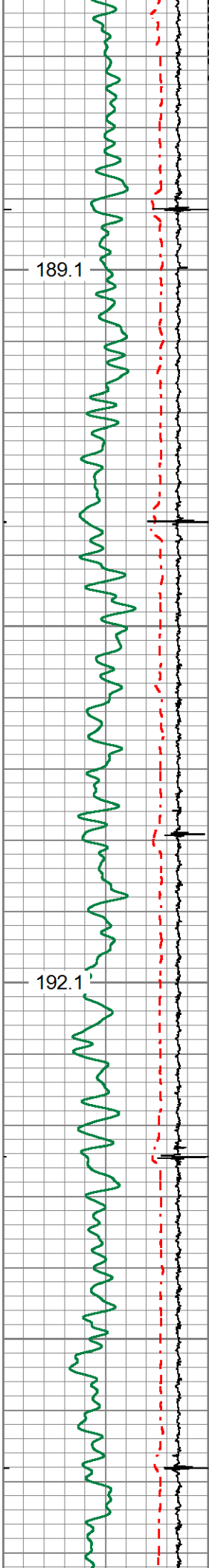




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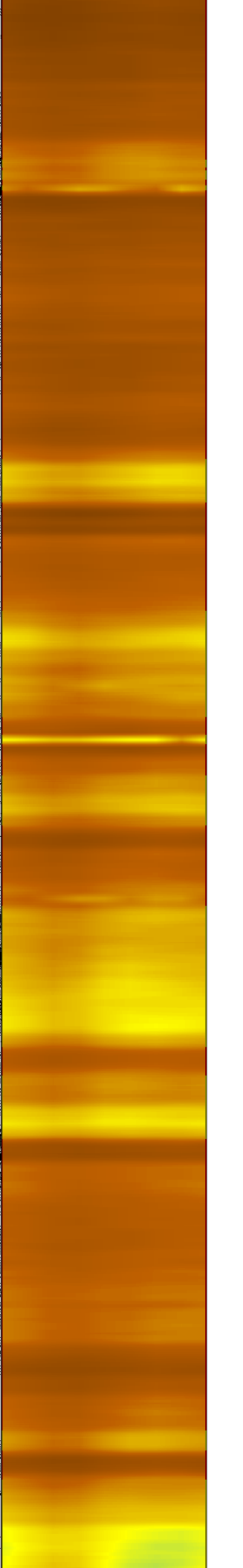
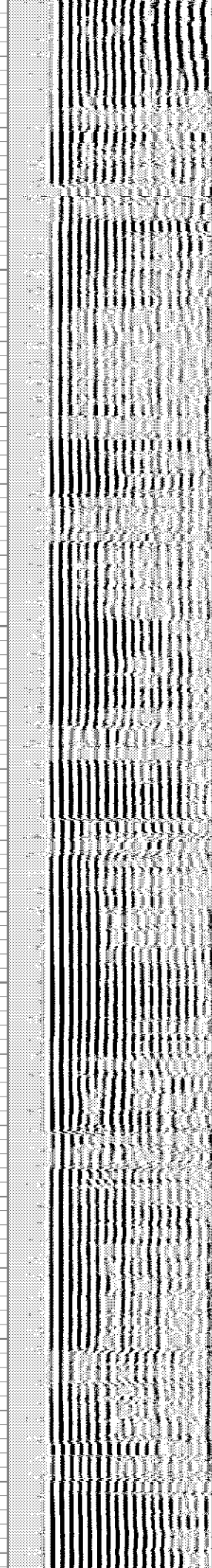
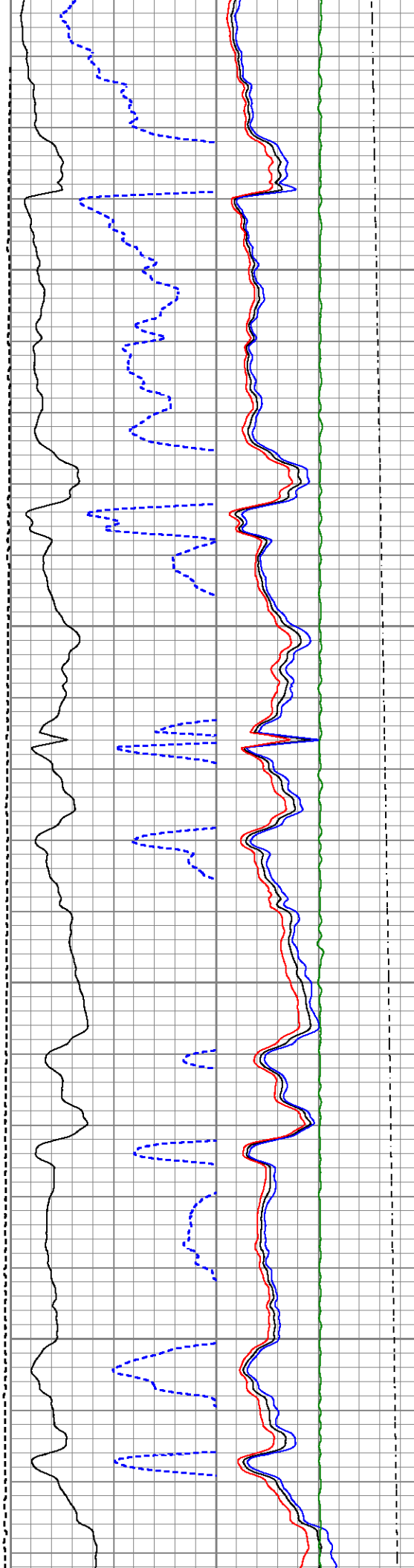
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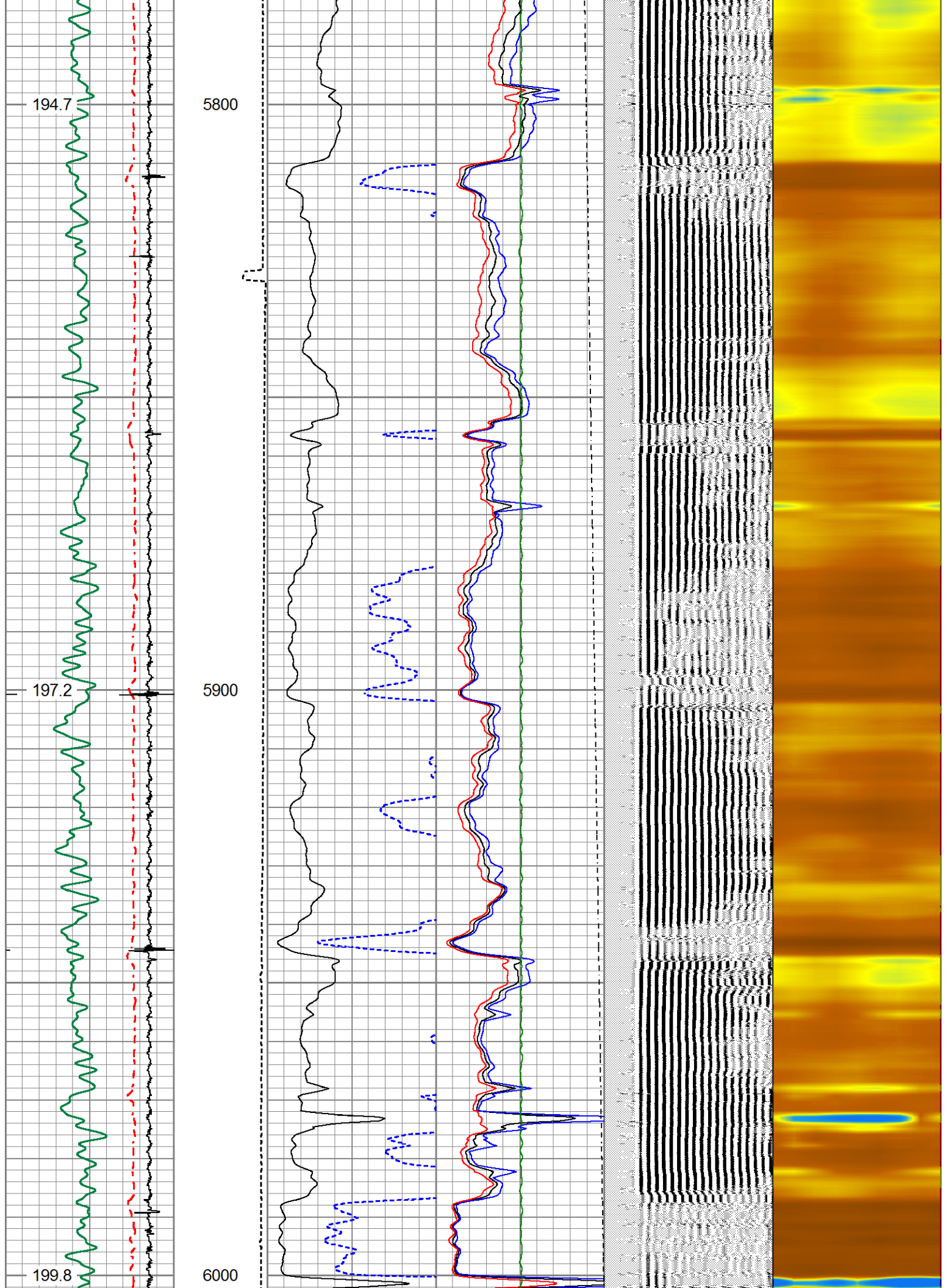


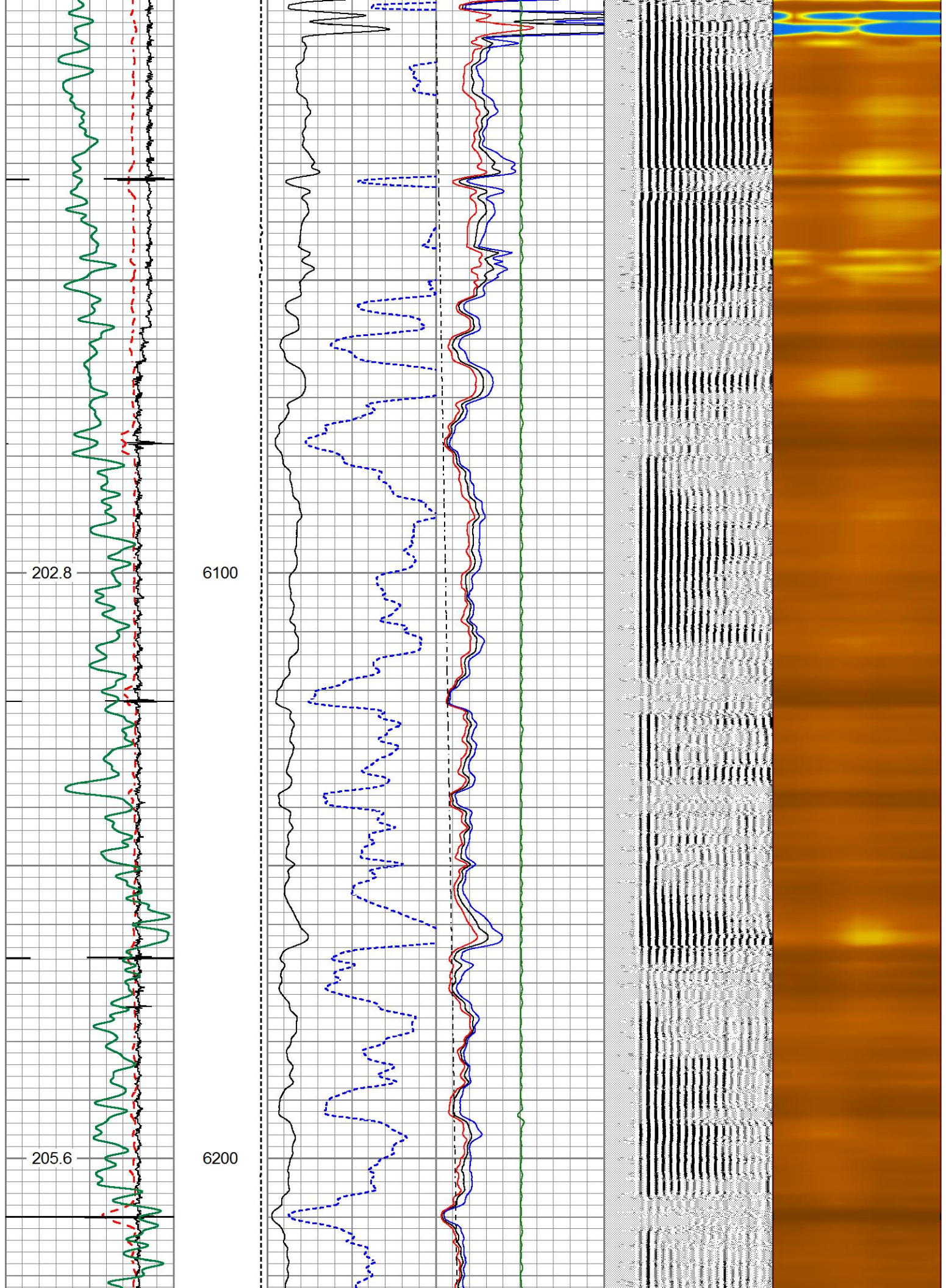


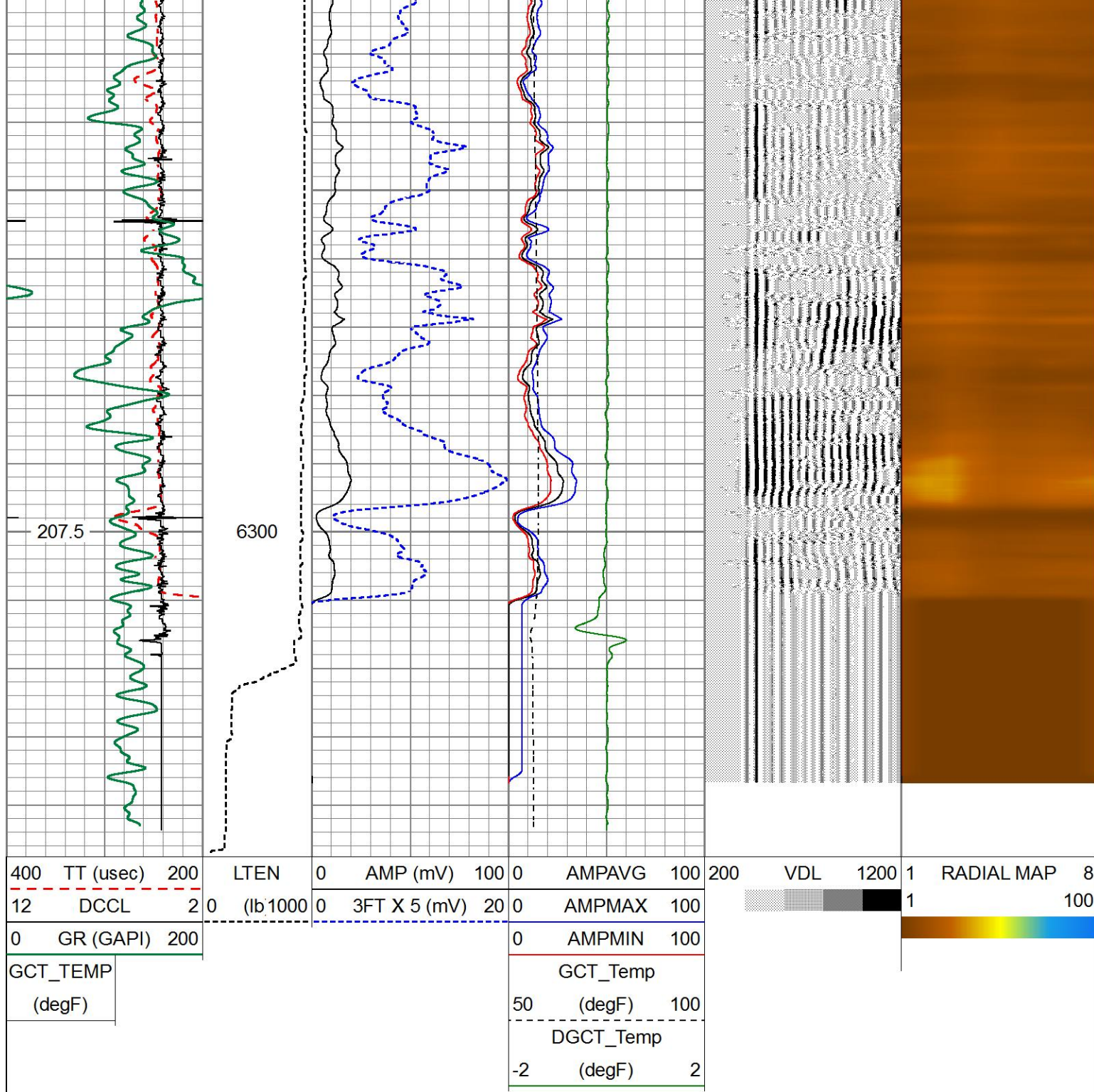
5600

5700









Calibration Report

Database File anschutz eq farms 4-62-33-1724c.db
 Dataset Pathname merge6
 Dataset Creation Tue Apr 03 15:22:31 2018

Gamma Ray Calibration Report

Serial Number: FW1709-17
 Tool Model: GCT275
 Performed: Mon Apr 02 08:13:53 2018

Calibrator Value: 3.0 GAPI

Background Reading: 1.0 cps
 Calibrator Reading: 3.0 cps

Calibrator 1.0000 GAPI

Sensitivity:

1.0000

GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1708-20
 Tool Model: RBTC3
 Calibration Casing Diameter: 7.000 in
 Calibration Depth: 303.638 ft

Master Calibration, performed Mon Apr 02 10:45:23 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.680	1.000	62.165	89.278	1.440
CAL	1.004	1.062				
5'	-0.007	0.719	1.000	62.165	84.217	1.598
SUM						
S1	0.016	0.680	0.000	100.000	150.386	-2.335
S2	-0.005	0.729	0.000	100.000	136.234	0.710
S3	-0.007	0.778	0.000	100.000	127.460	0.850
S4	-0.004	0.783	0.000	100.000	126.982	0.518
S5	-0.007	0.730	0.000	100.000	135.672	0.898
S6	-0.007	0.666	0.000	100.000	148.635	0.991
S7	-0.006	0.646	0.000	100.000	153.477	0.854
S8	-0.007	0.647	0.000	100.000	152.879	1.015

Internal Reference Calibration, performed Mon Oct 09 14:03:40 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.004	1.062	1.000	0.000

Air Zero Calibration, performed Mon Apr 02 08:02:29 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



PATRIOT
WELL SOLUTIONS

Company HIGH POINT RESOURCES
 Well ANSCHUTZ EQ FARMS 4-62-33-1724C
 Field WATTENBERG
 County WELD
 State CO

Country USA