



PIONEER

Pioneer Energy Services

RADIAL BOND LOG WITH GAMMA RAY

Comp. HIGHPOINT OPERATING CORP.
Well RSU ANSCHUTZ FED 4-61-04-0909C
Field WATTENBERG
Co. WELD
State COLORADO

Company **HIGHPOINT OPERATING CORP.**
Well **RSU ANSCHUTZ FED 4-61-04-0909CN**
Field **WATTENBERG**
County **WELD** State **COLORADO**

Location: API # : 05-123-46730
1442' FNL & 205' FWL
LOT 4
SEC 4 TWP 4N RGE 61W
Permanent Datum GL Elevation 4502'
Log Measured From KB 16.5' Above Perm. Datum
Drilling Measured From KB
Other Services
NONE
K.B. 4518.5'
D.F. N/A
G.L. 4502

Date of Service	05 JULY 2019		
Run Number	ONE		
Depth Driller or P8TD	6405'		
Depth Logger	6288'		
Bottom Log Interval	6288'		
Top Log Interval	SURFACE		
Open Hole Size	8.75"		
Type Fluid	WATER		
Fluid Level	FULL		
Fluid Density	N/A		
Max. Recorded Temperature	N/A		
Max. Wellhead Pressure	ZERO		
Wellhead Connection	OPEN		
Estimated Cement Top	N/A		
Unit Number	P-133		
Wireline Size	9/32"		
Location	FORT MORGAN		
Recorded By	SCHOENROGGE		
Witnessed By	MR. BECKSTEAD		
	Size	Wt/Ft	Top
Tubing Record			Bottom
Surface Casing	9.625"	36#	SURFACE 869'
Production Casing	7"	23#	SURFACE 6452'
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

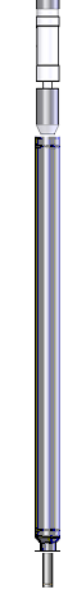
BOREID in 8.75	BOTTEMP degF 200	CASEOD in 7	CASETHCK in 0.317	CASEWGHT lb/ft 23	MAXAMPL mV 62.2	MINAMPL mV 1.7
MINATTN db/ft 0.8	PERFS 0	PPT usec 287	SRFTEMP degF 50	TDEPTH ft 6300		


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	13.07		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	7.82		PROBE-RBT-DIGITAL-RBL-DC (FW1401) Probe 2 3/4" Radii Bond-Corrosion Package	48.75	2.75	100.00
WVFS7	7.82					
WVFS6	7.82					
WVFS5	7.82					
WVFS4	7.82					
WVFS3	7.82					
WVFS2	7.82					
WVFS1	7.82					
WVFCAL	7.82					
WVF3FT	7.82					
WVF5FT	6.82					

HEADVOLT	3.63					
			GR-275 Probe (080629) Probe 2.75" Gamma Ray	3.36	2.75	40.00
GR	1.08		Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00
		Dataset:	highpoint_rsu_05123_20190705.db: field/well/run1/pass6			
		Total length:	15.24 ft			
		Total weight:	158.00 lb			
		O.D.:	2.75 in			

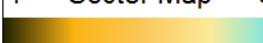


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Pioneer Energy Services

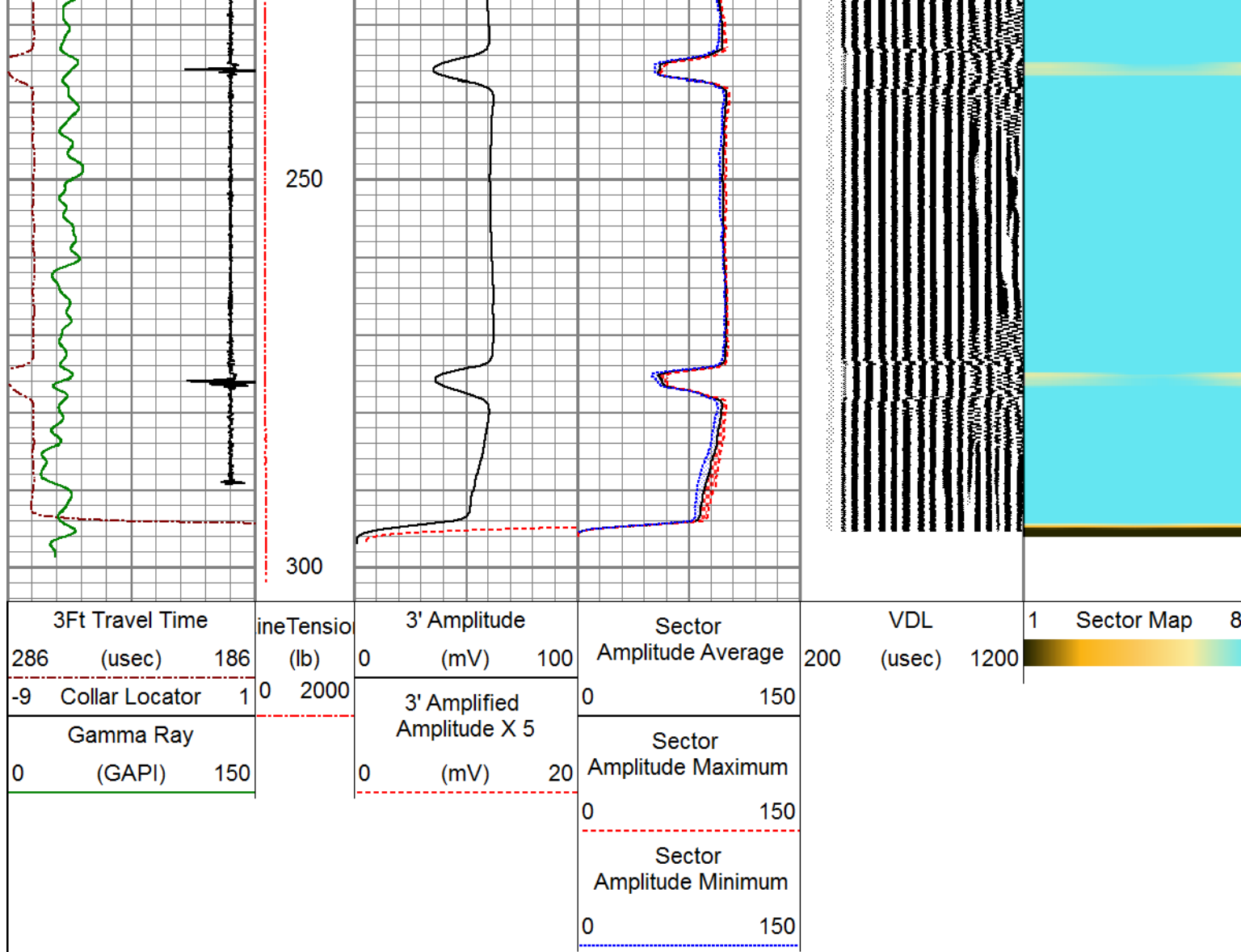
FREE PIPE SECTION


ZERO PSI APPLIED AT SURFACE

Database File	highpoint_rsu_05123_20190705.db
Dataset Pathname	pass2
Presentation Format	pinr_scbl
Dataset Creation	Fri Jul 05 12:40:10 2019
Charted by	Depth in Feet scaled 1:240

3Ft Travel Time	ineTensio	3' Amplitude	Sector Amplitude Average	VDL	1 Sector Map 8
286 (usec) 186	(lb)	0 (mV) 100	0 150	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			Sector Amplitude Minimum		






PIONEER

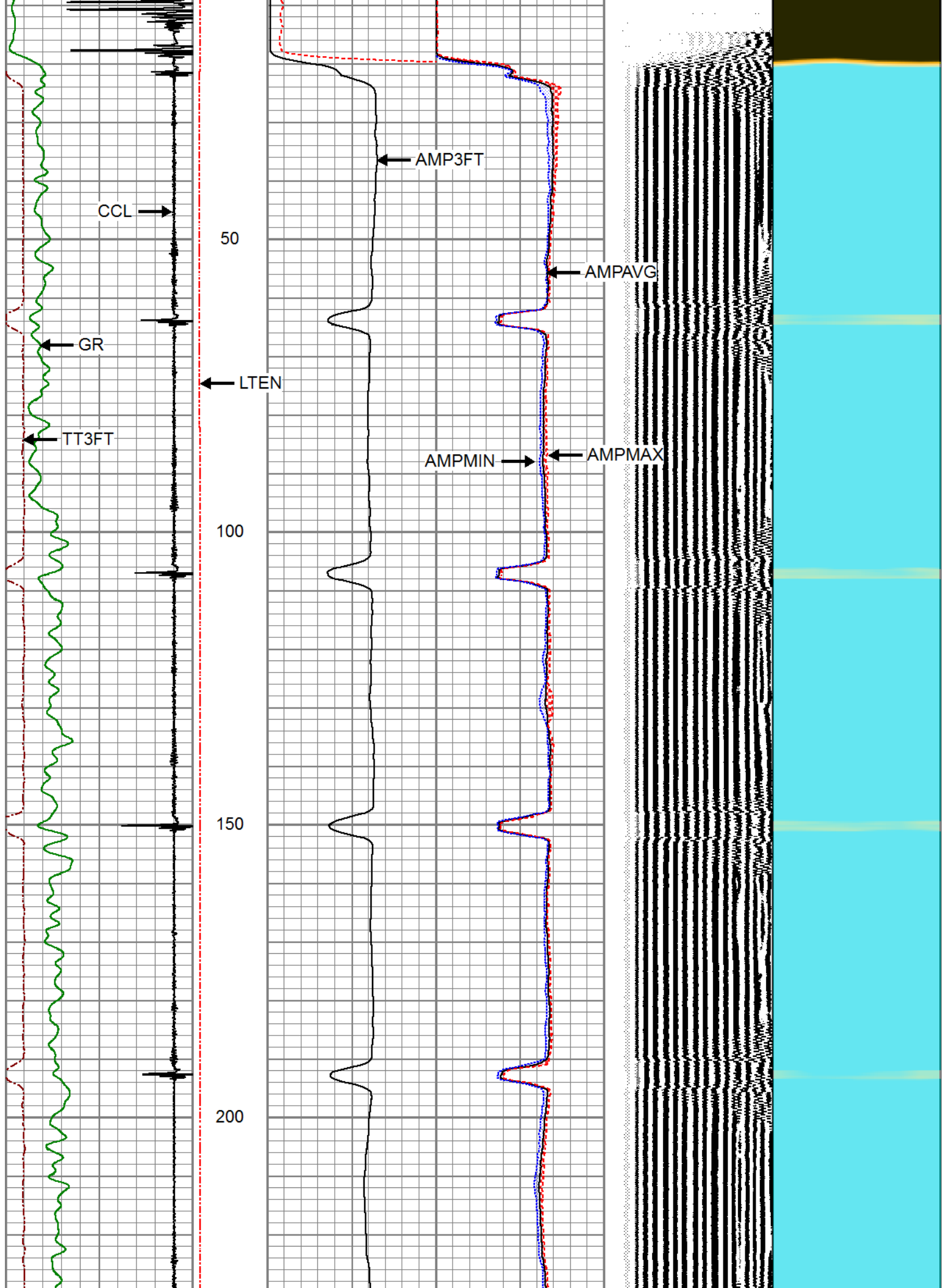
Pioneer Energy Services

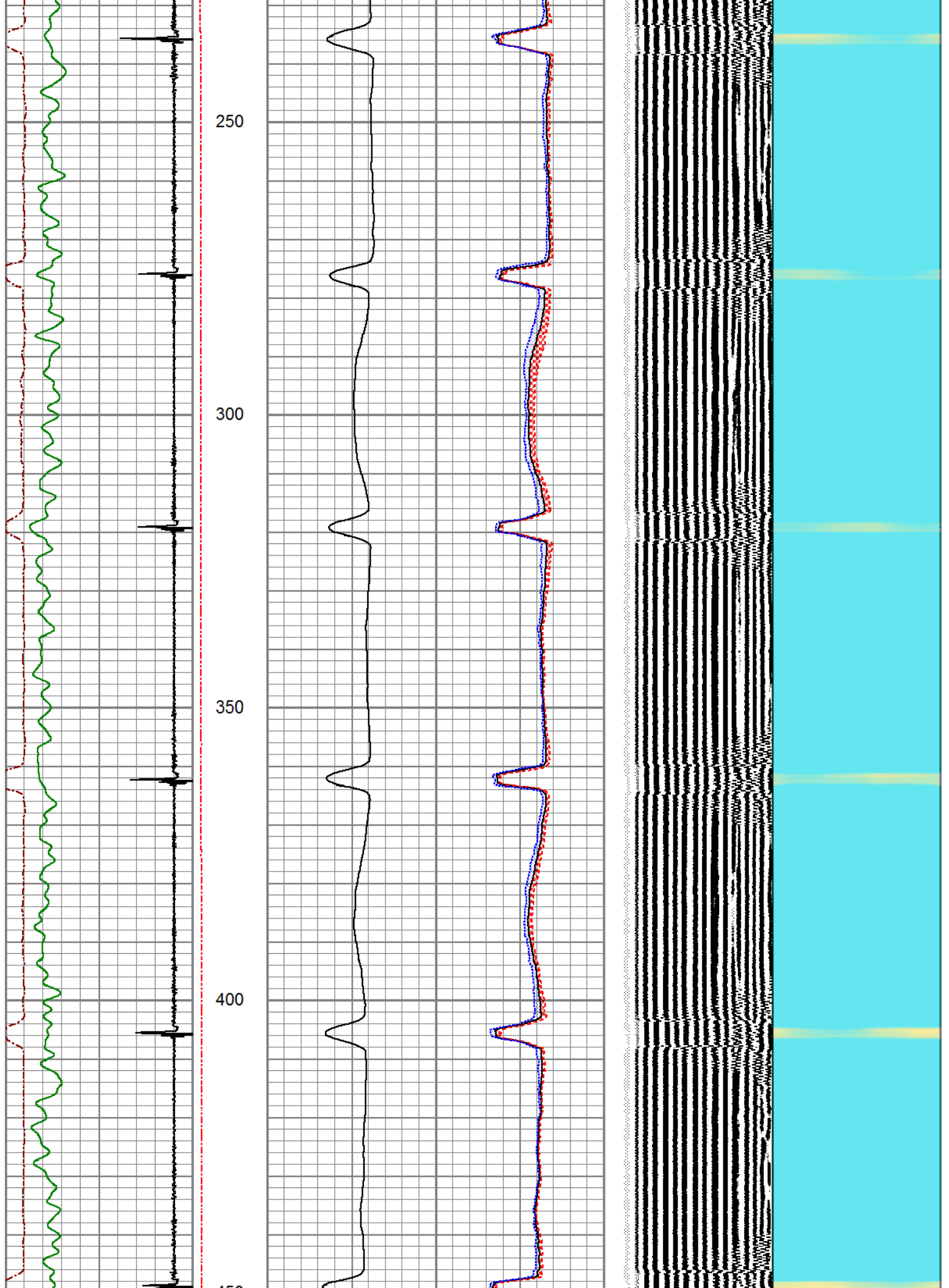
MAIN LOG

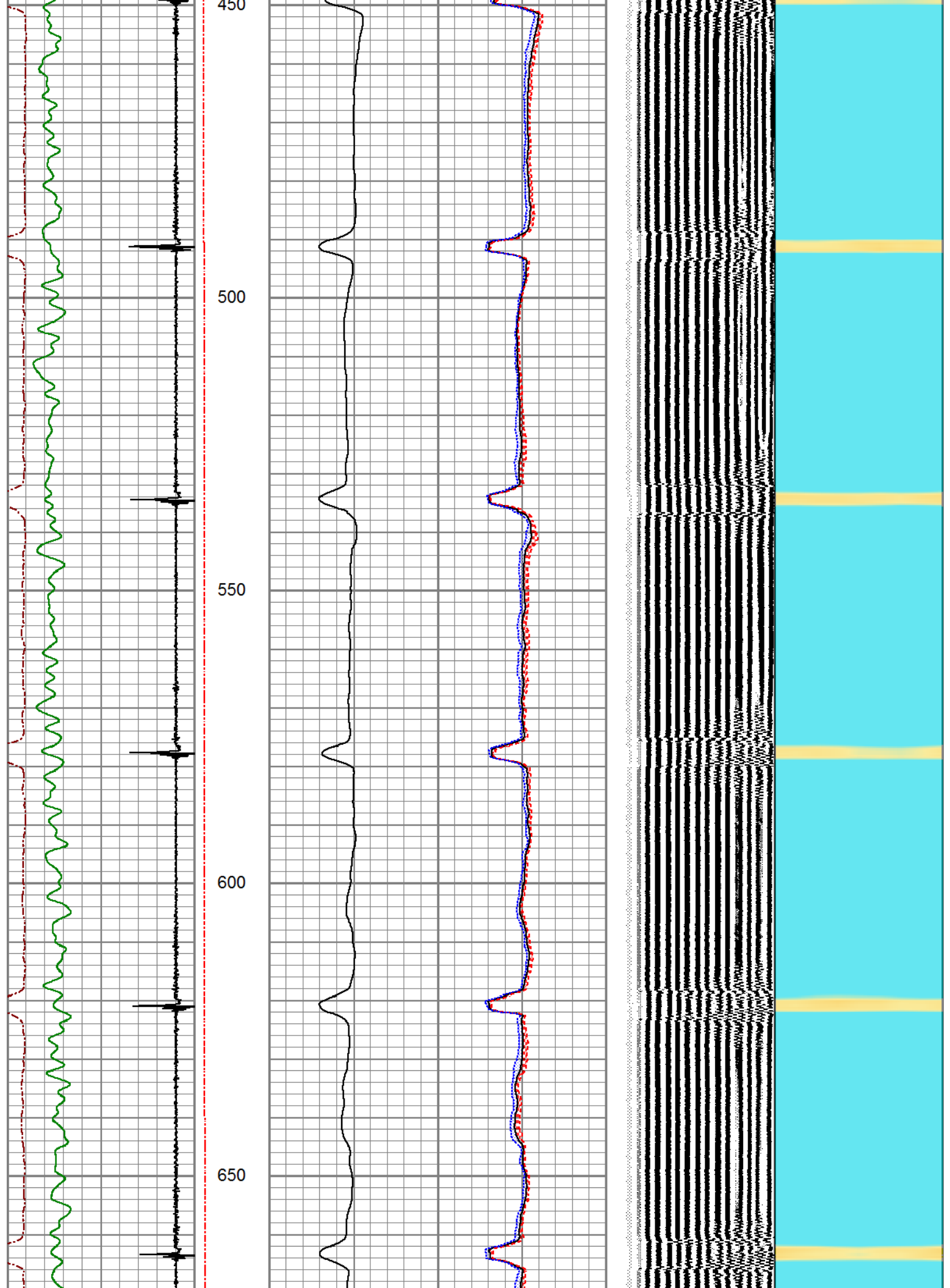
ZERO PSI APPLIED AT SURFACE

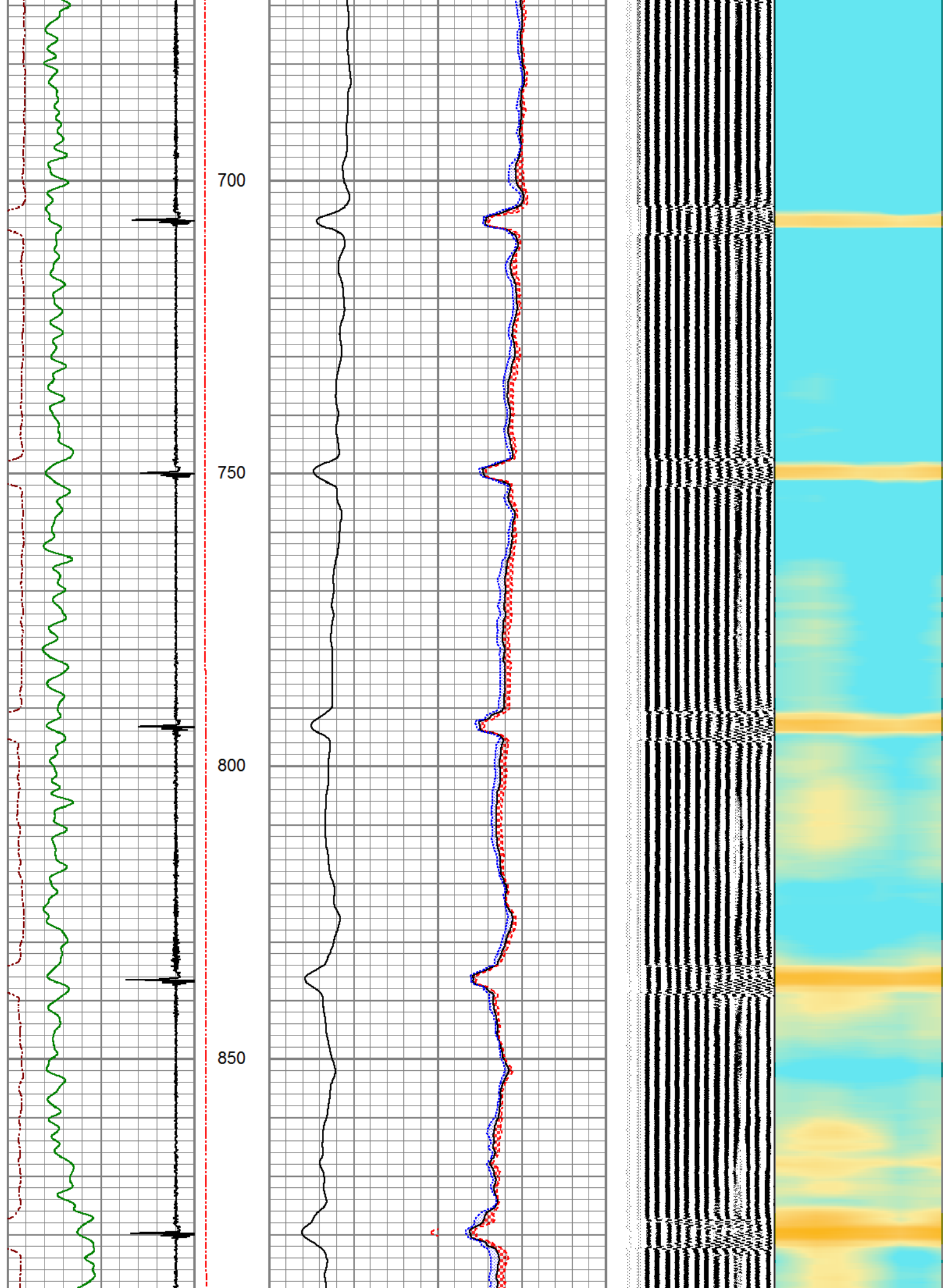
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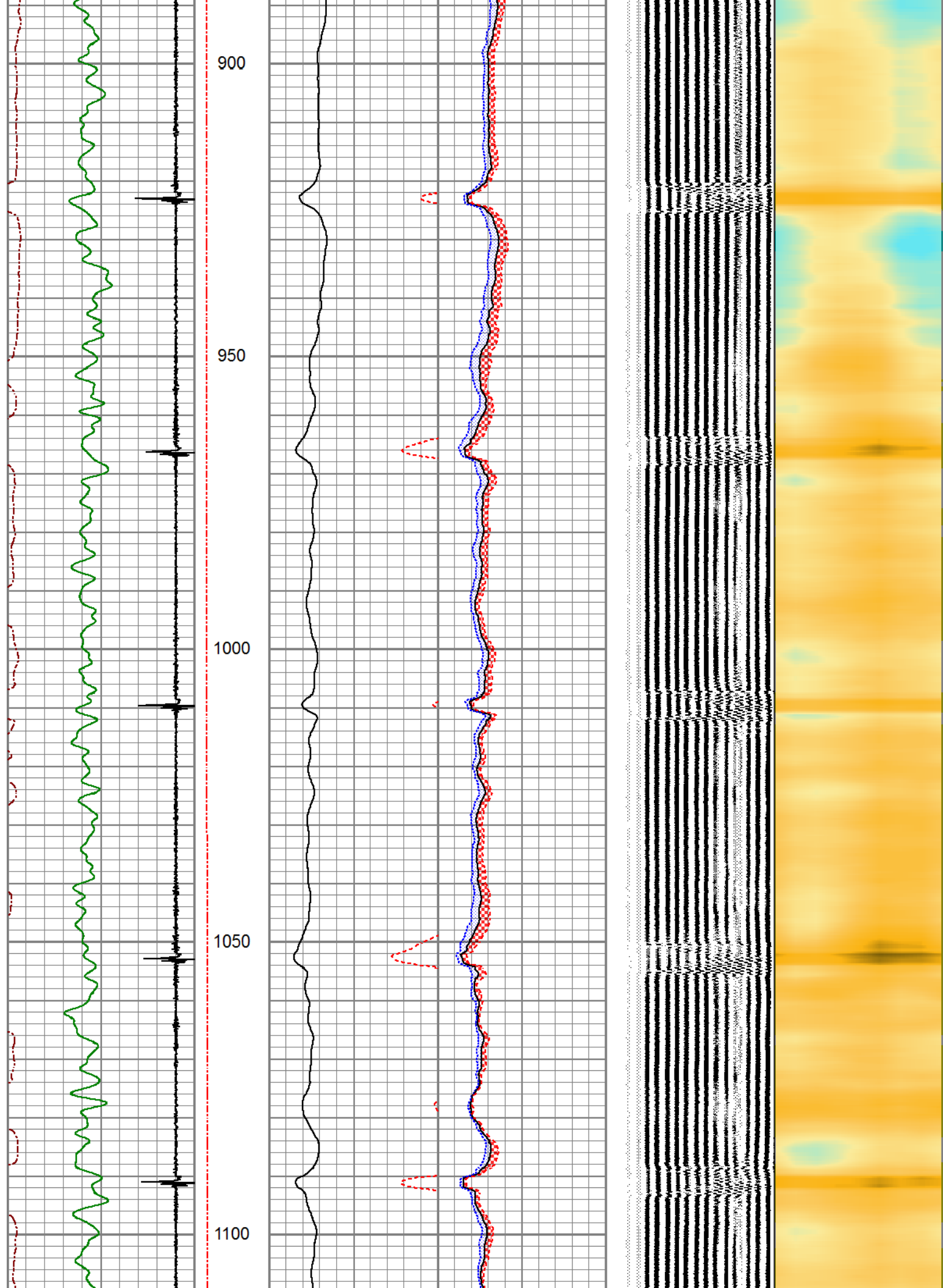
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286 (usec) 186	(lb)	0 (mV) 100	Amplitude Average	200 (usec) 1200			
-9 Collar Locator 1	0 2000	3' Amplified Amplitude X 5	0 150				
Gamma Ray			Sector Amplitude Maximum				
0 (GAPI) 150		0 (mV) 20	0 150				
			Sector Amplitude Minimum				
			0 150				

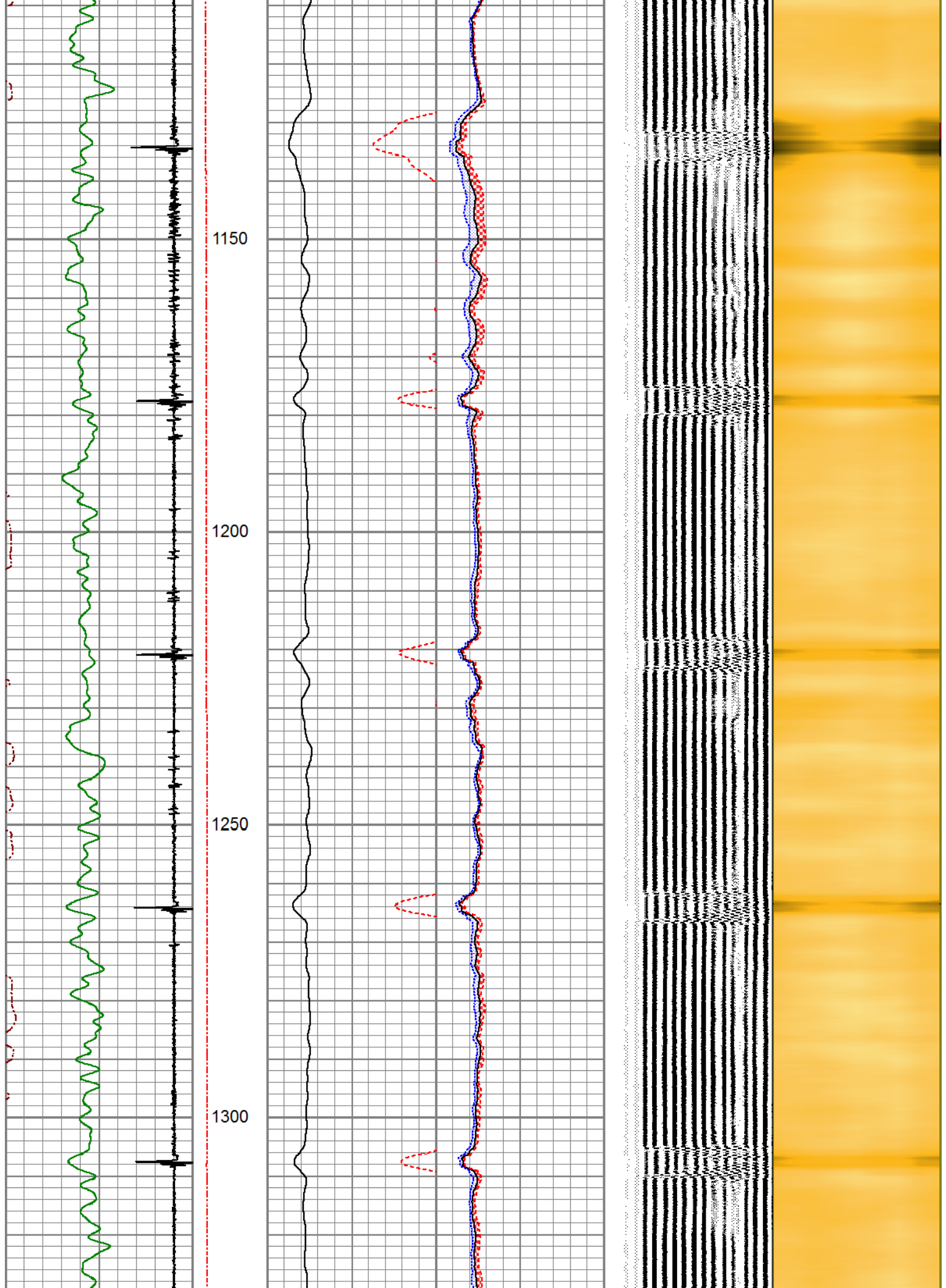


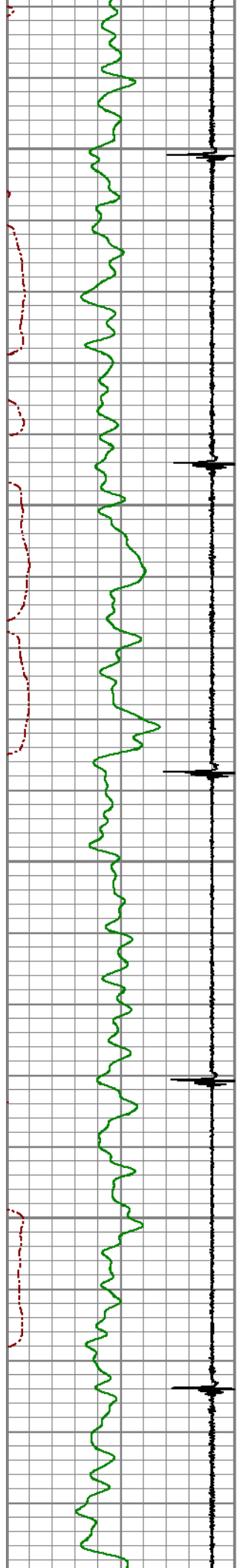












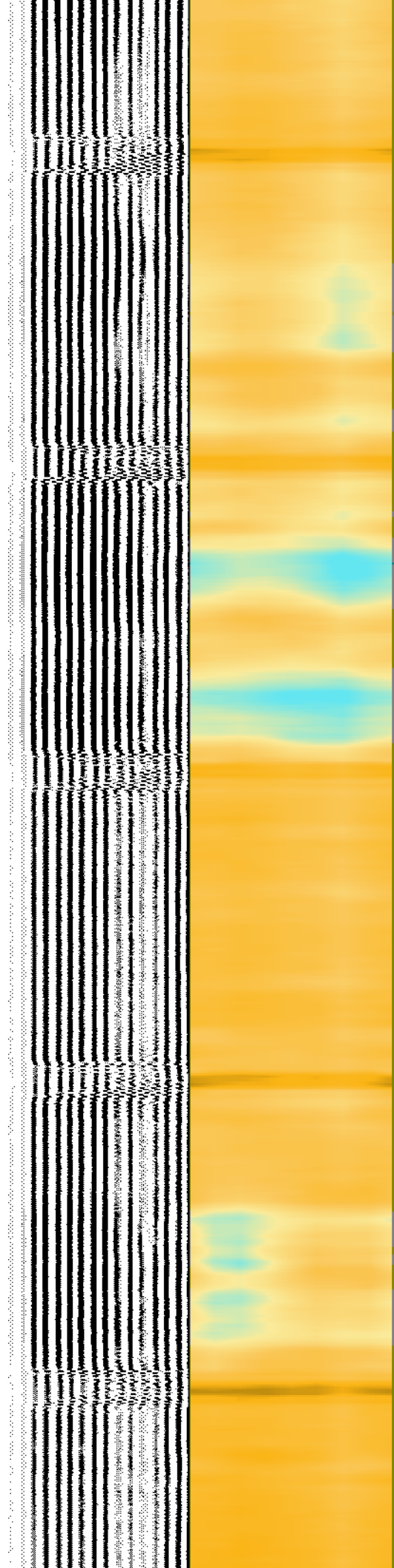
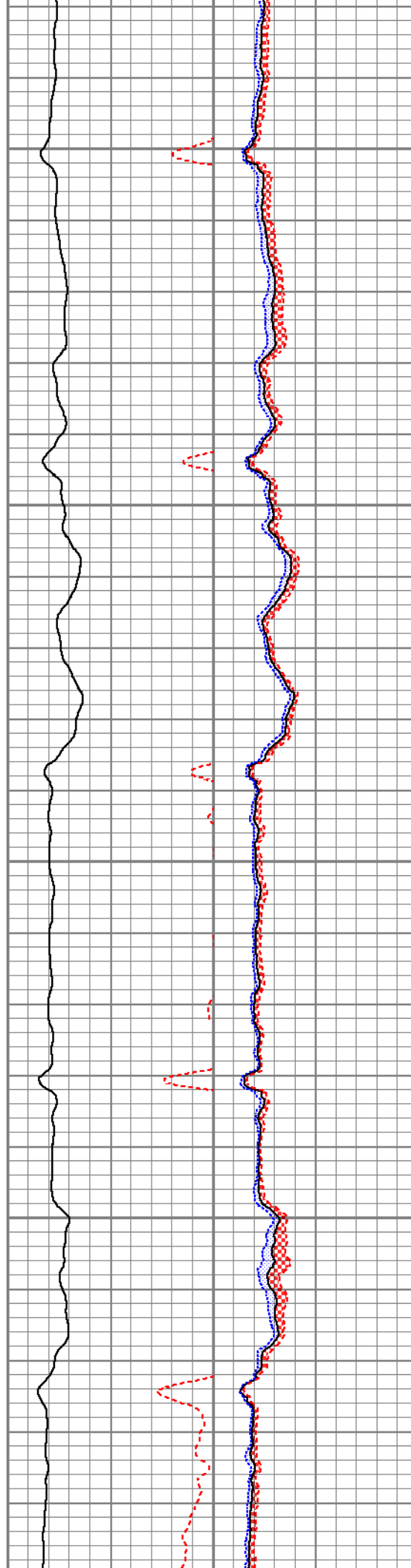
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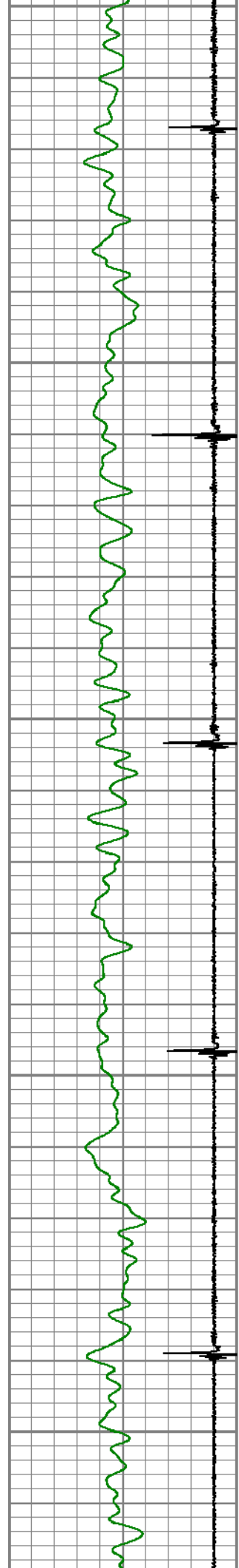
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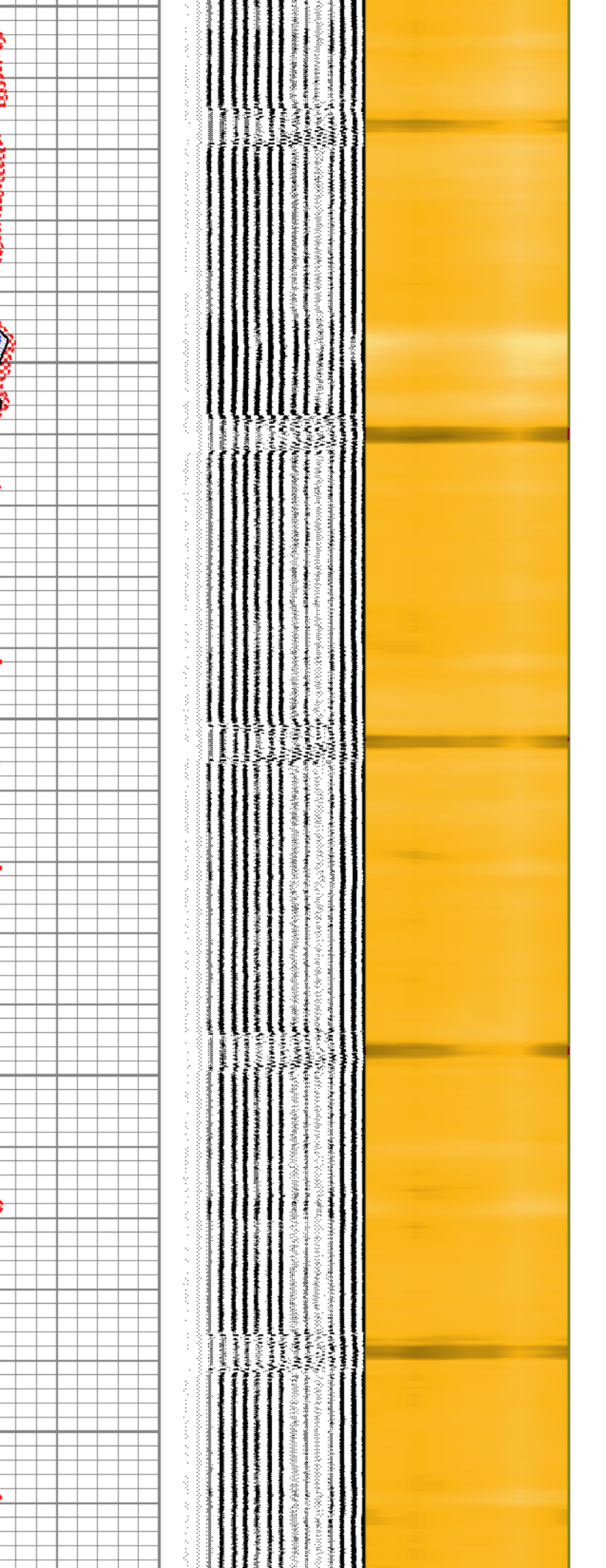
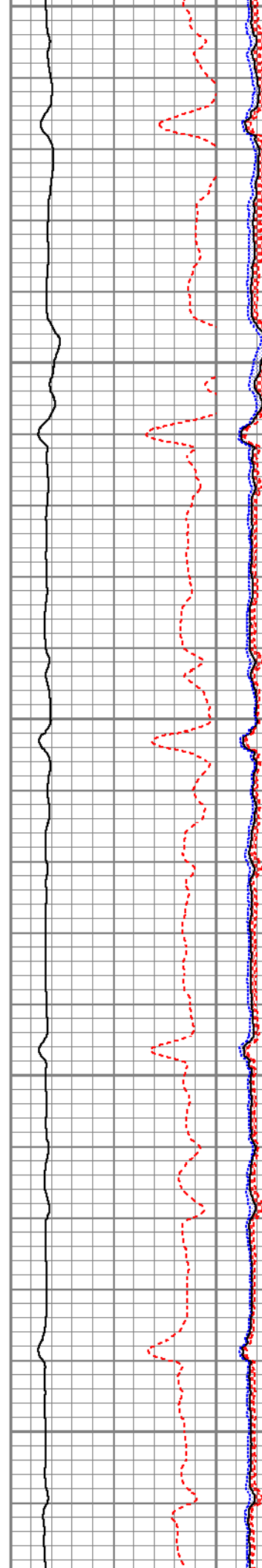
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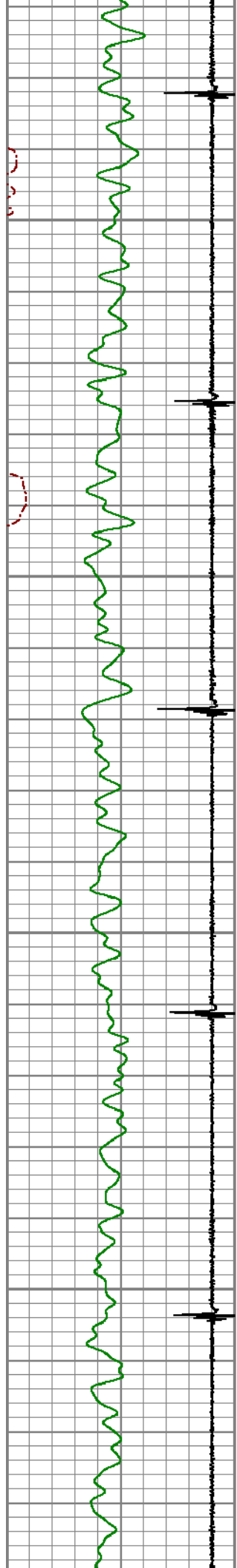
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1550
1600
1650
1700
1750



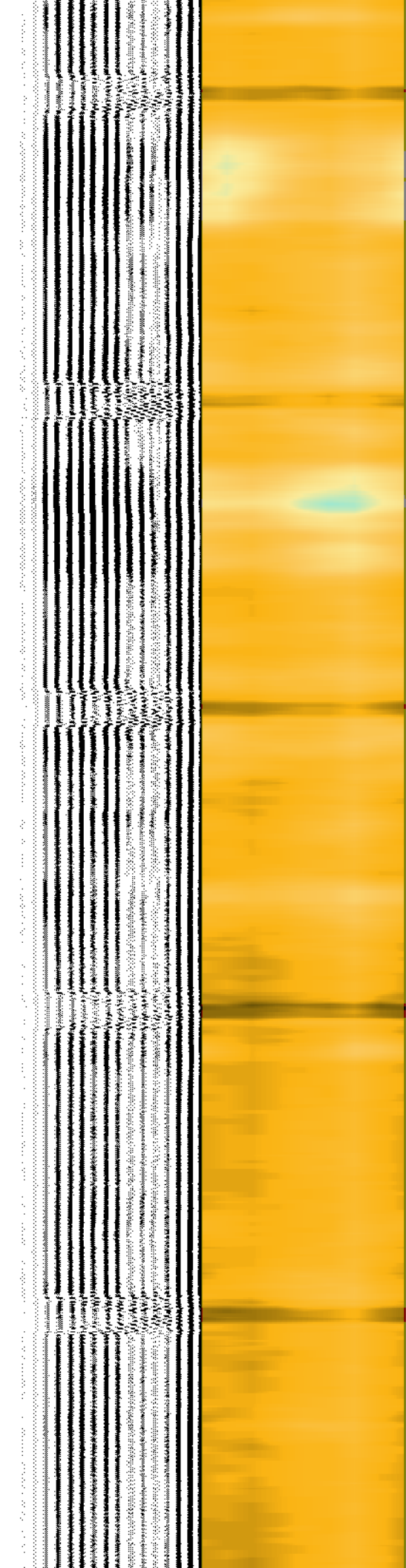
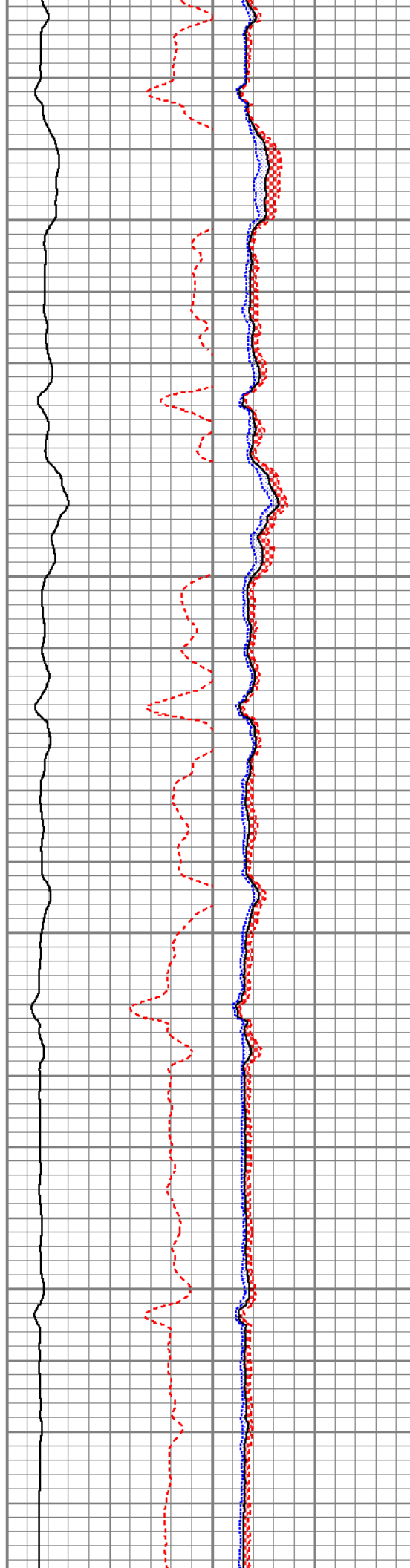


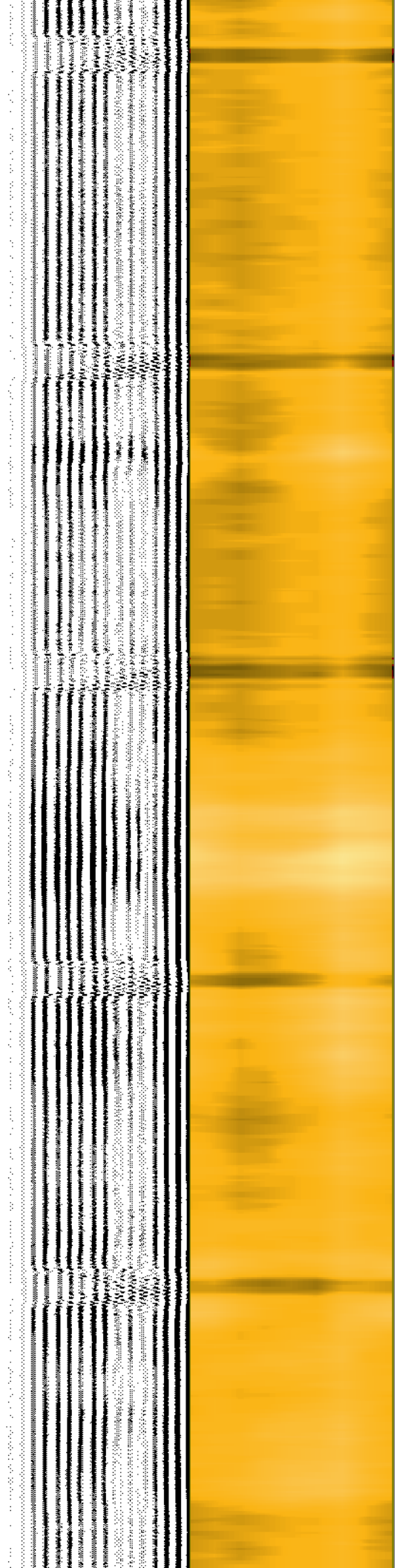
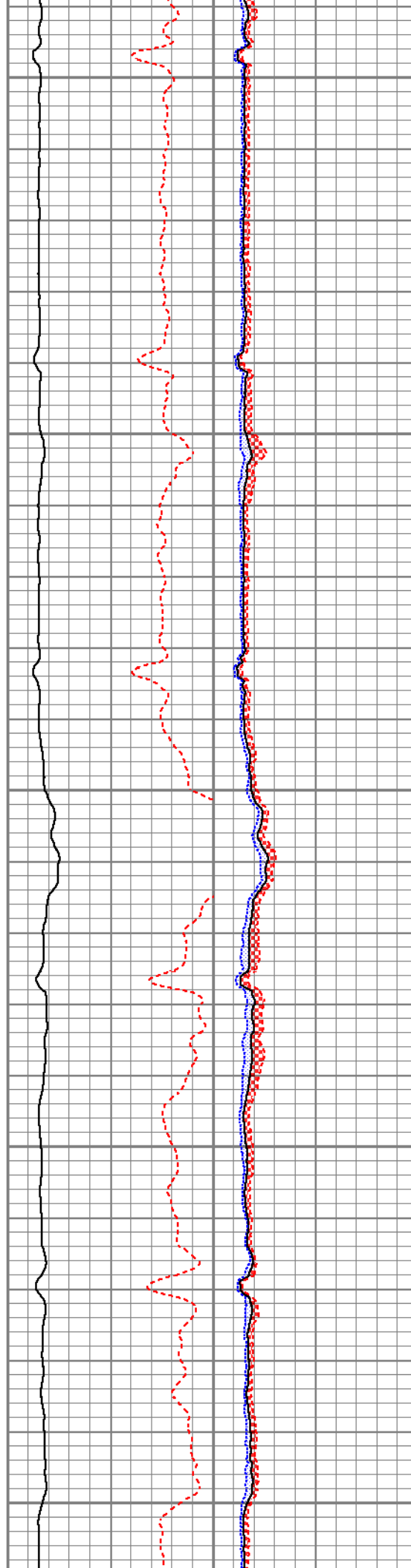
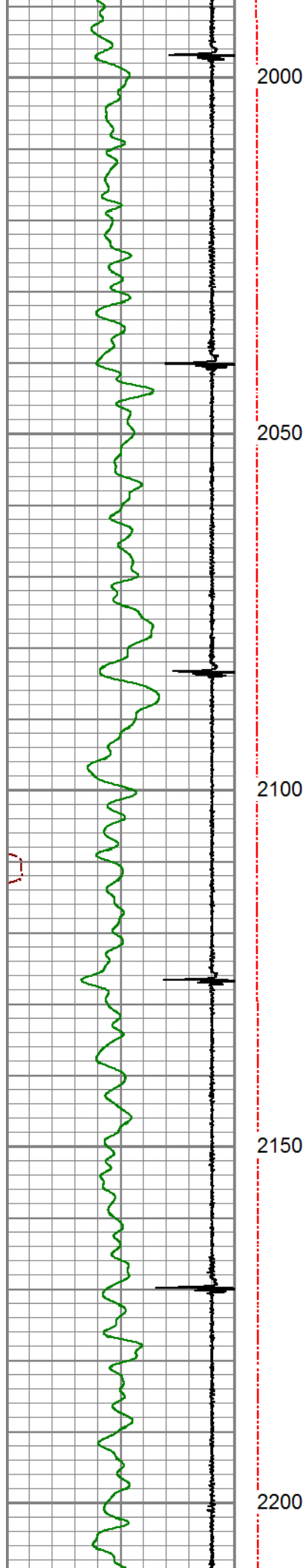
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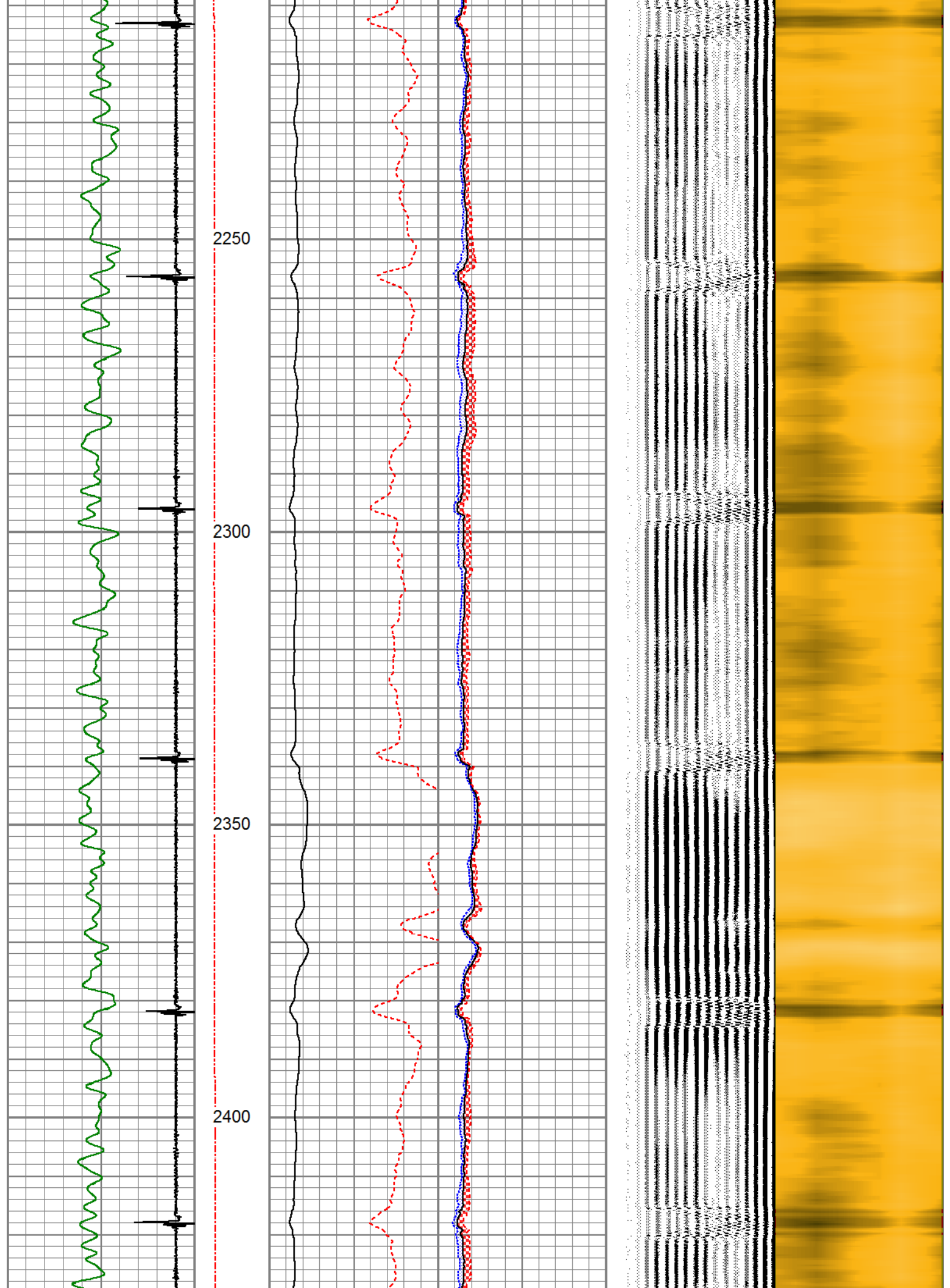
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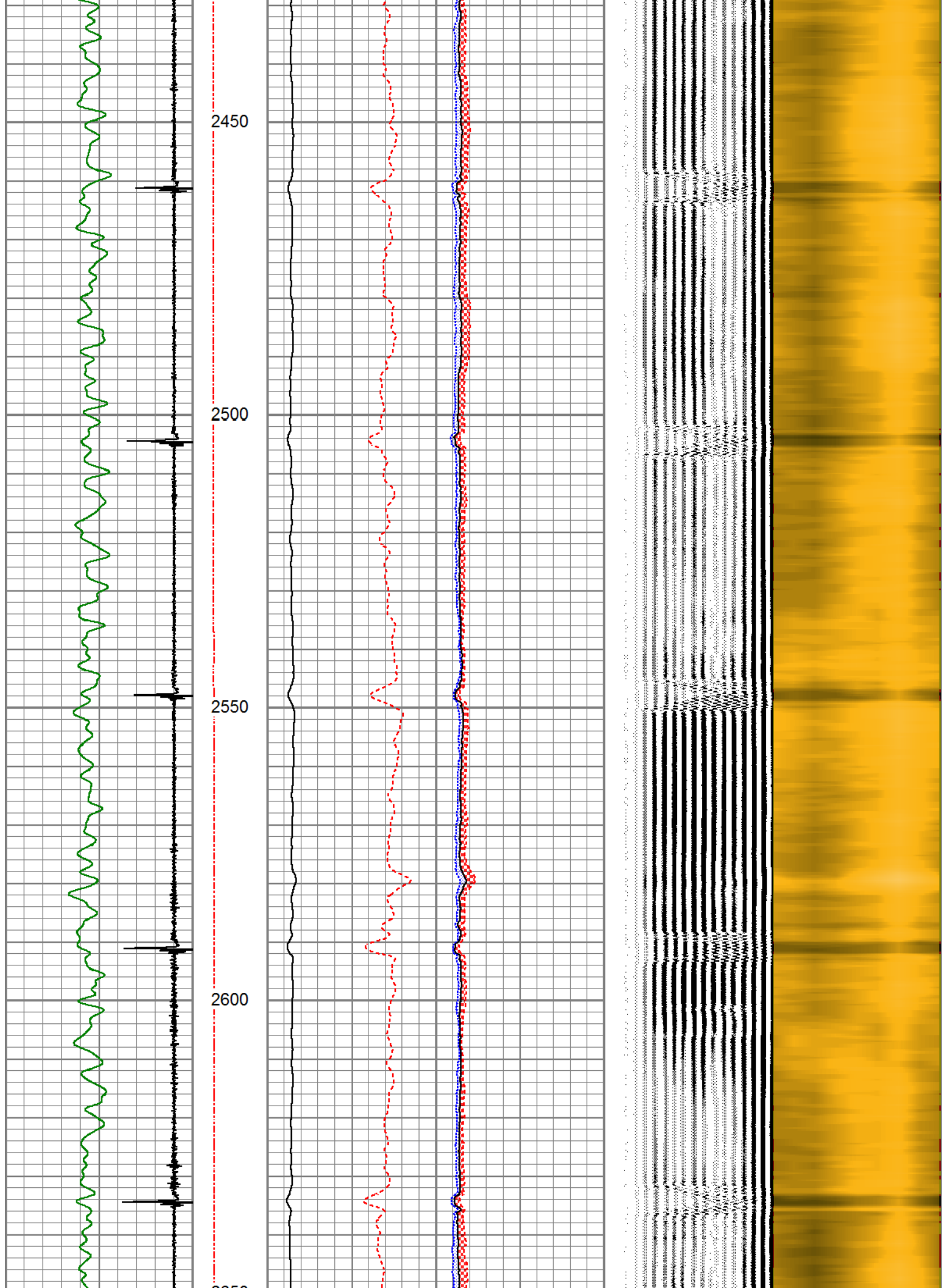
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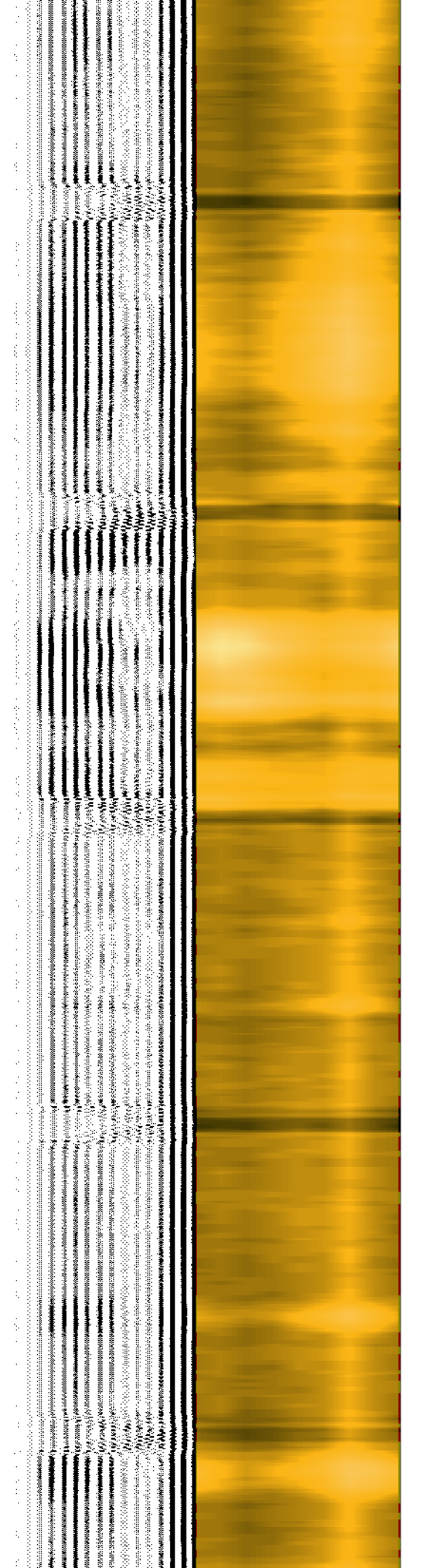
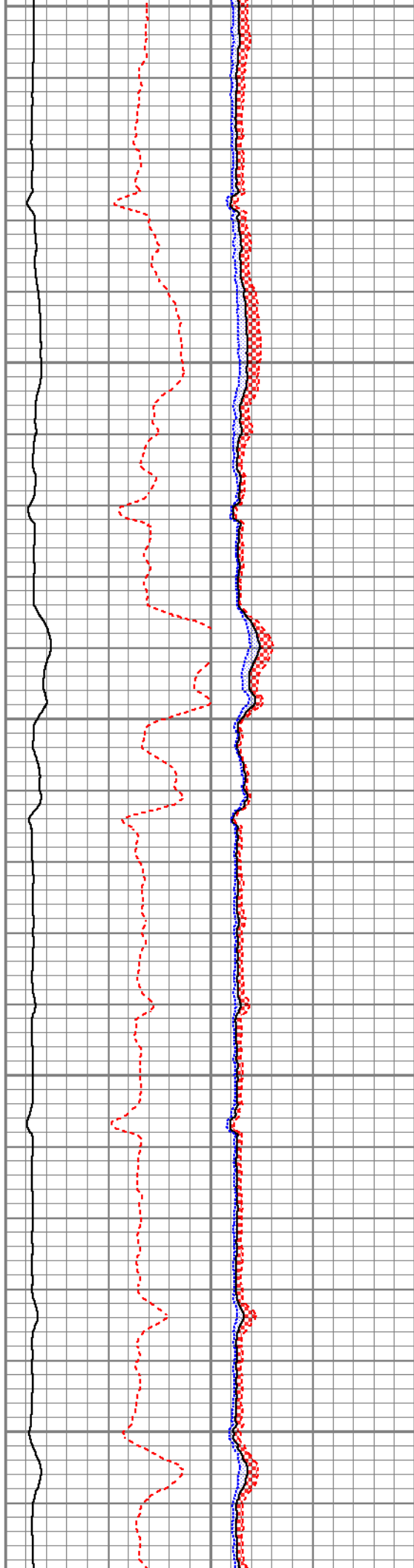
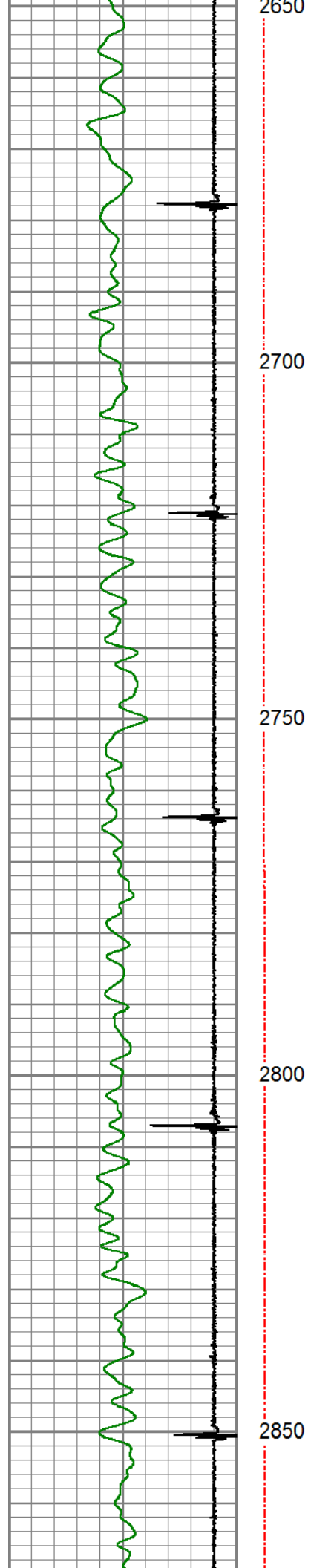
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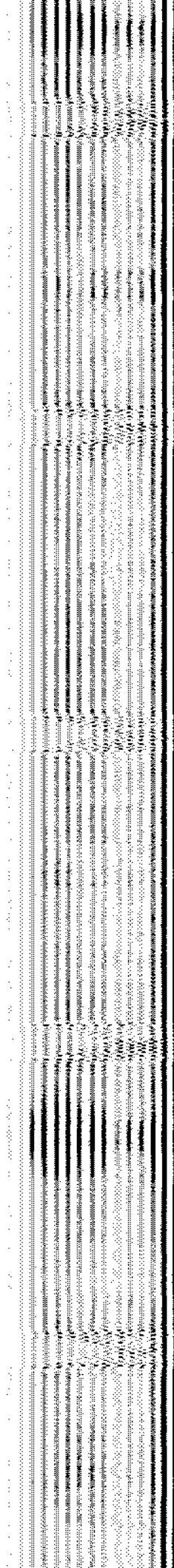
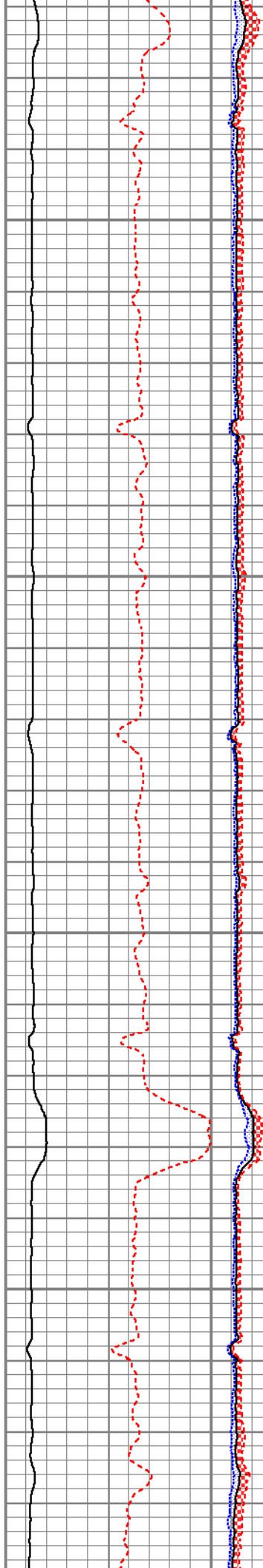
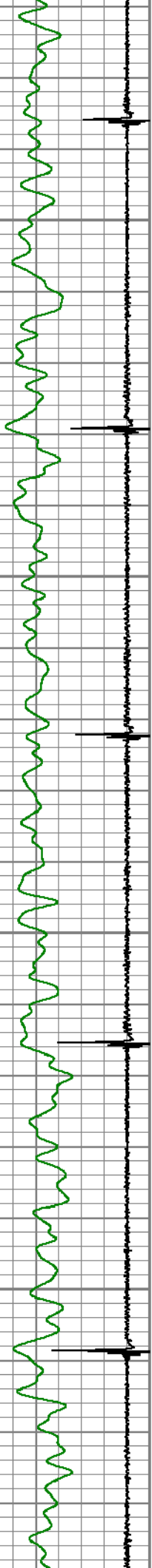


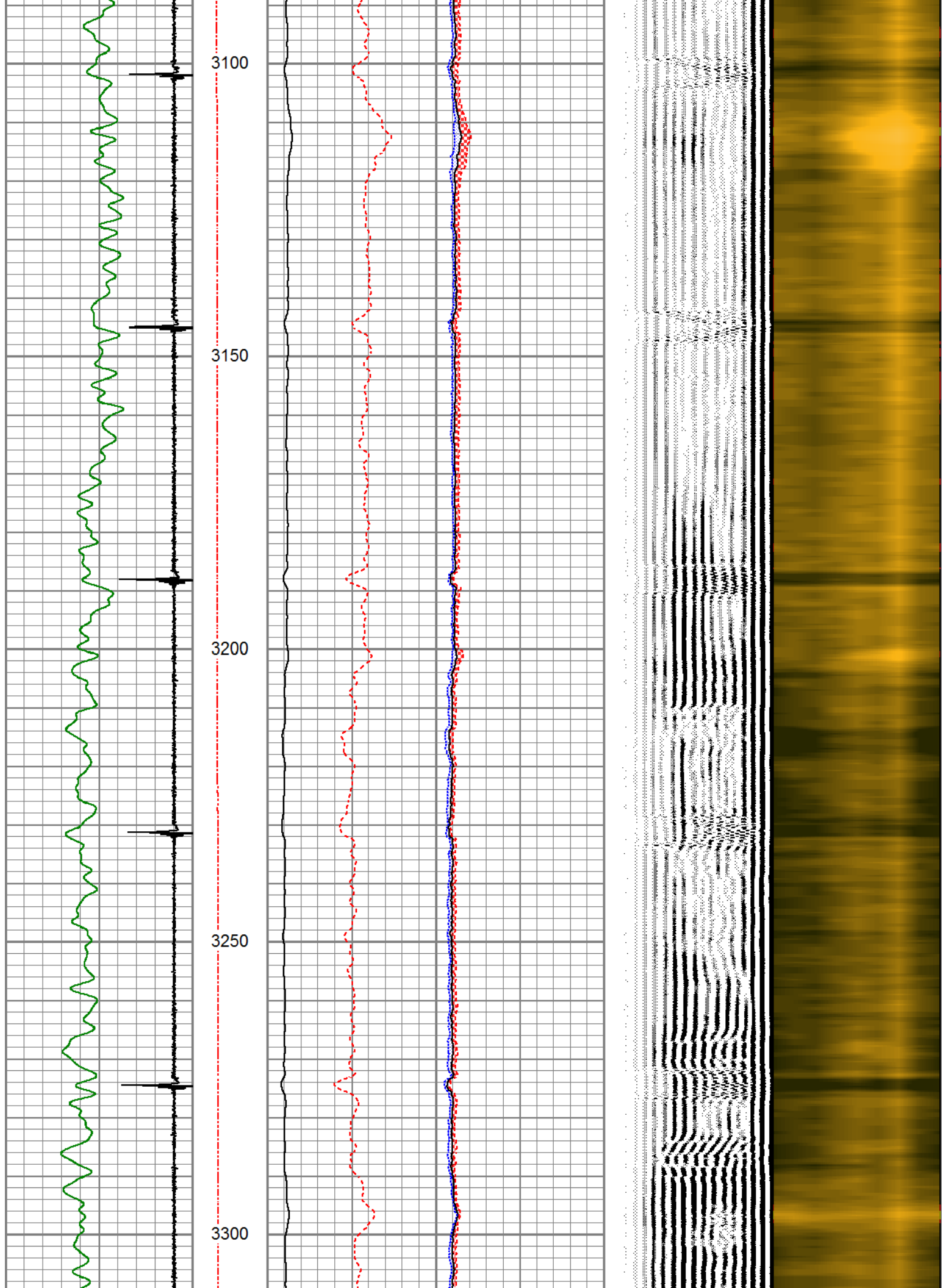
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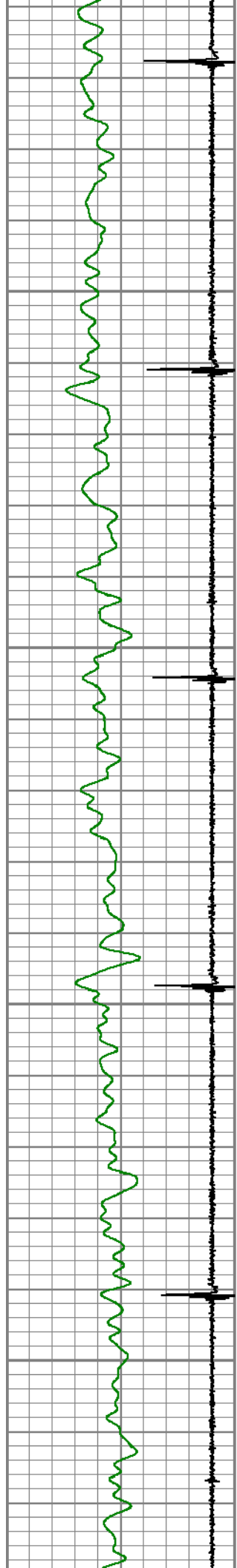
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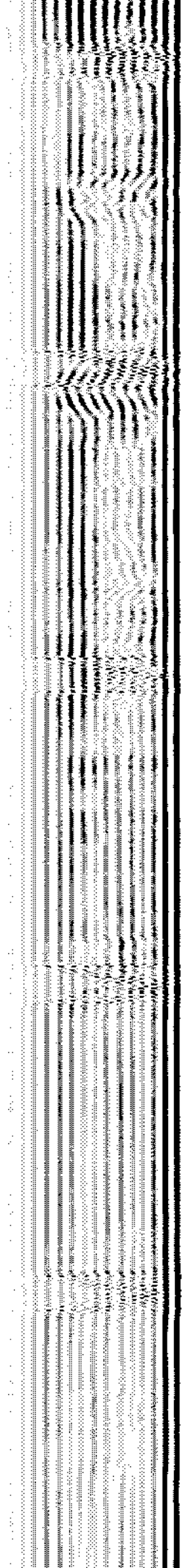
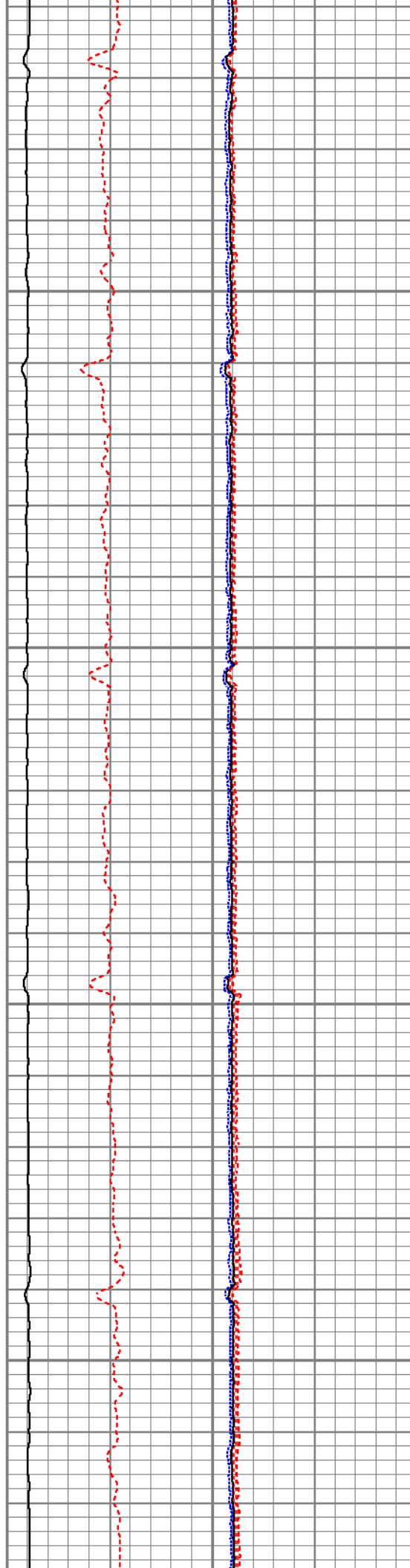


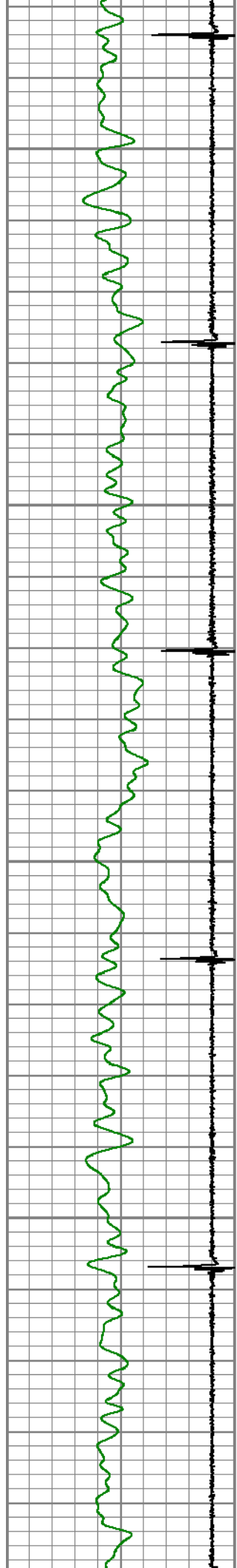
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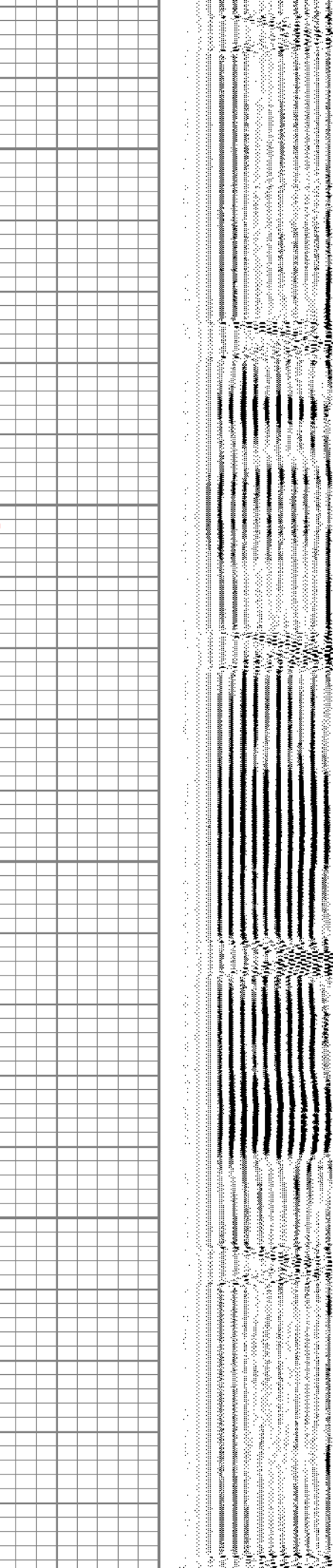
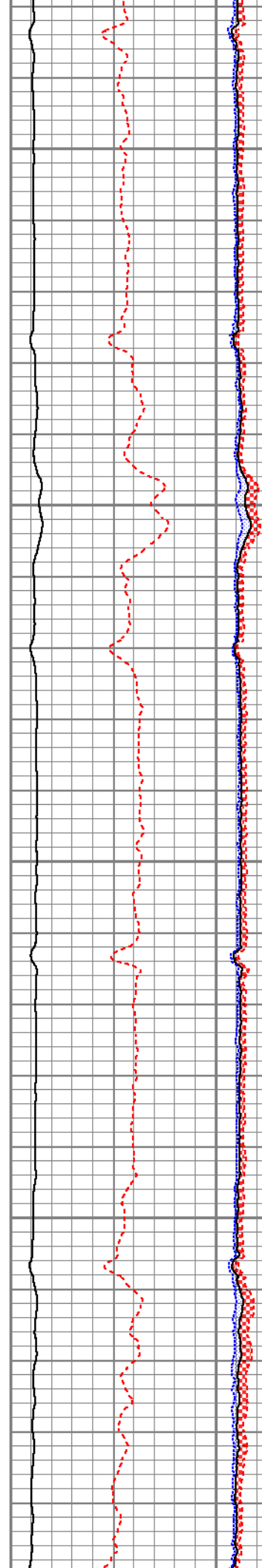


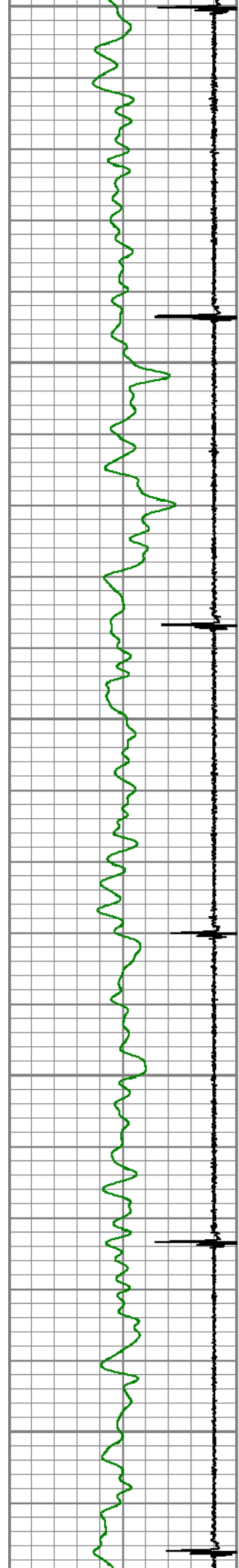
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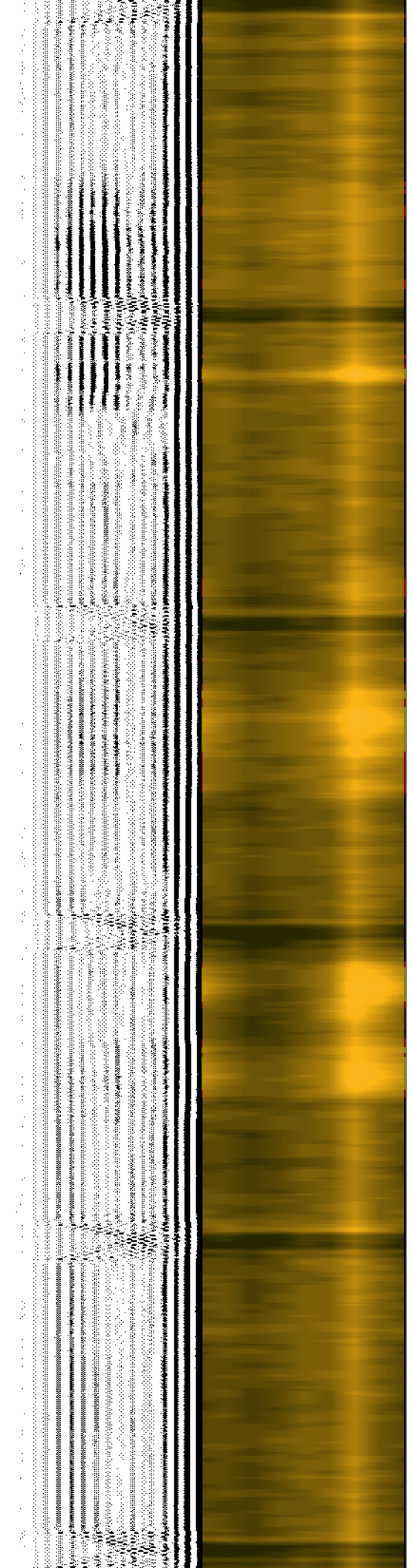
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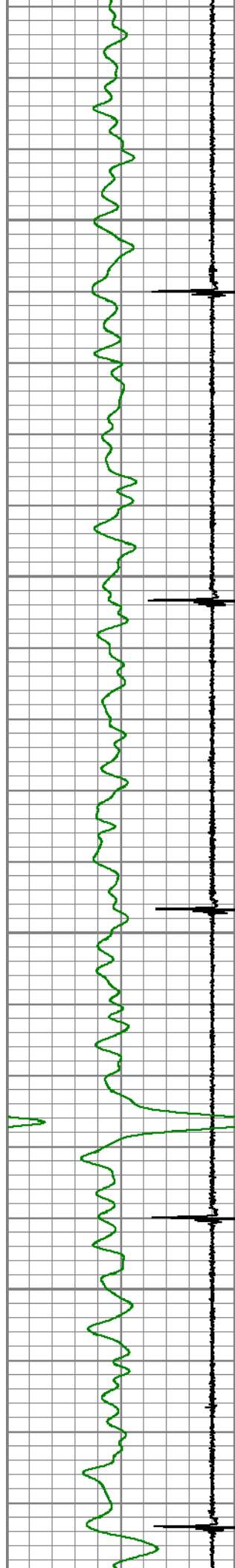
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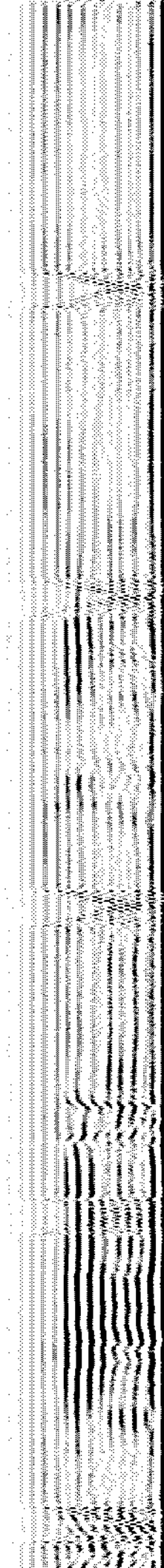
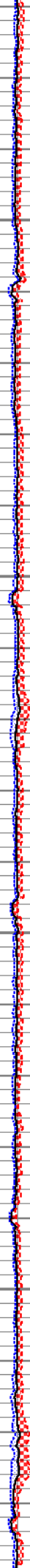
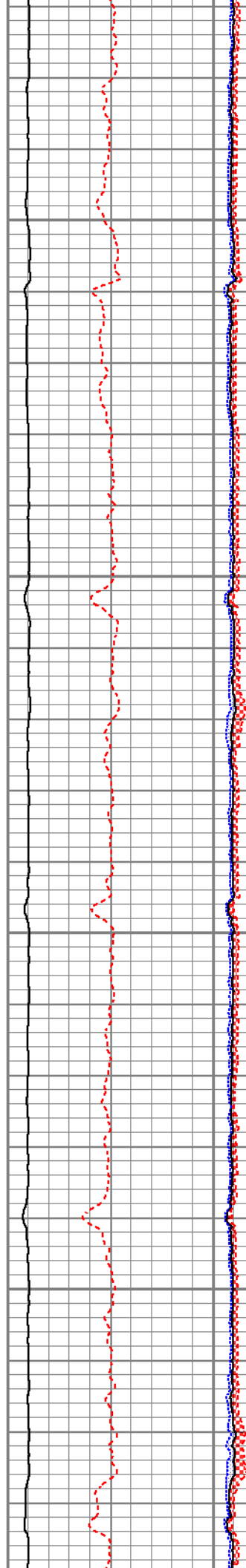


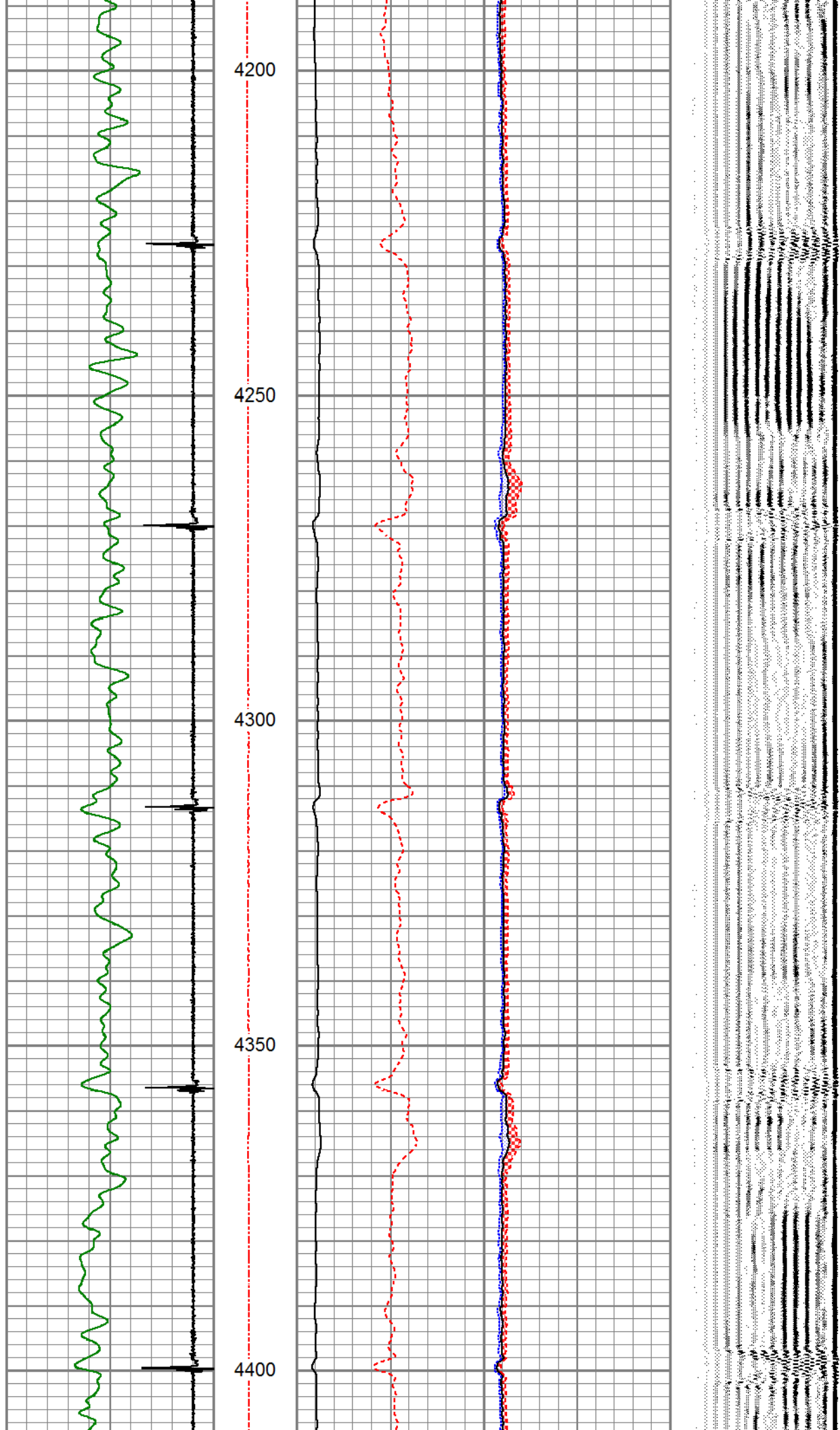
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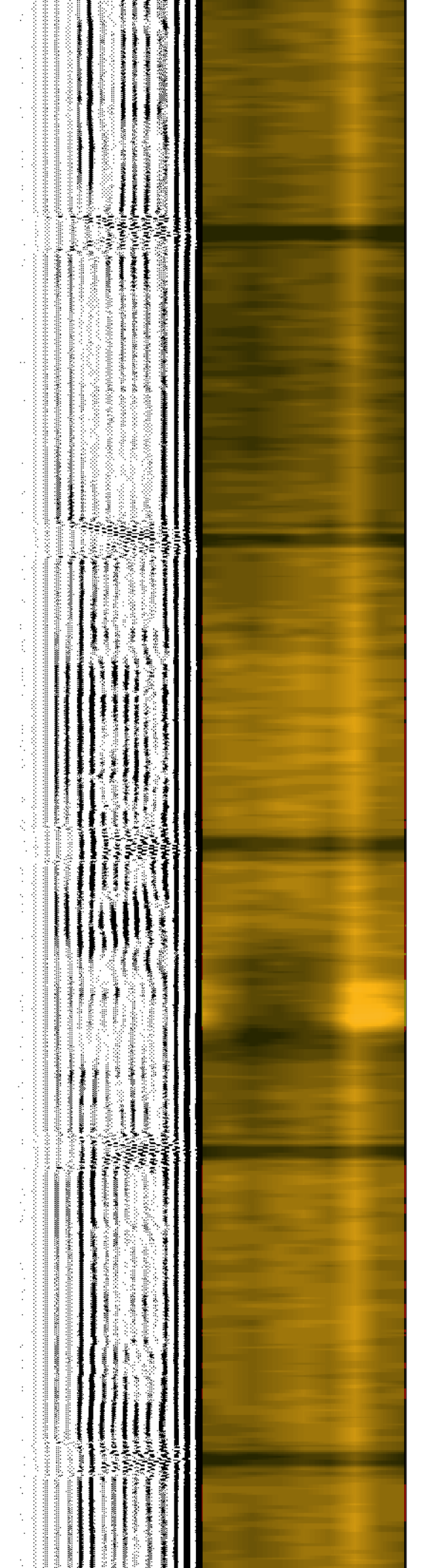
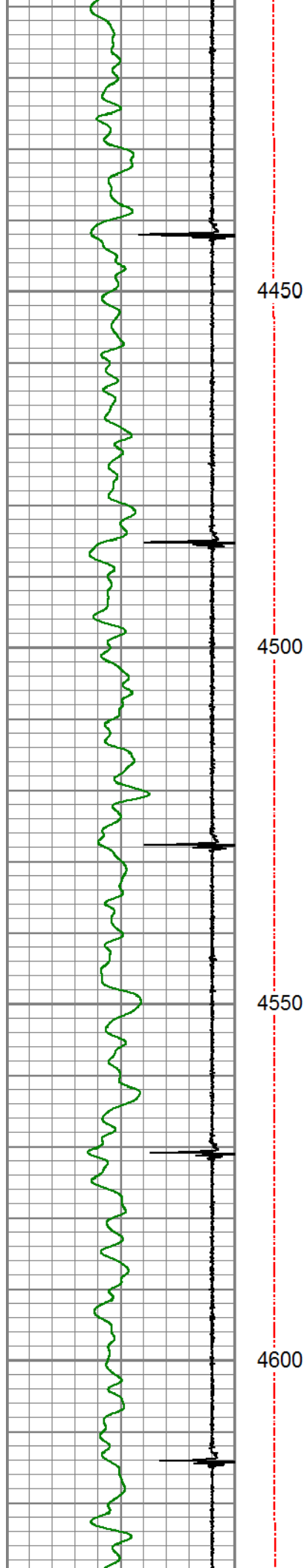
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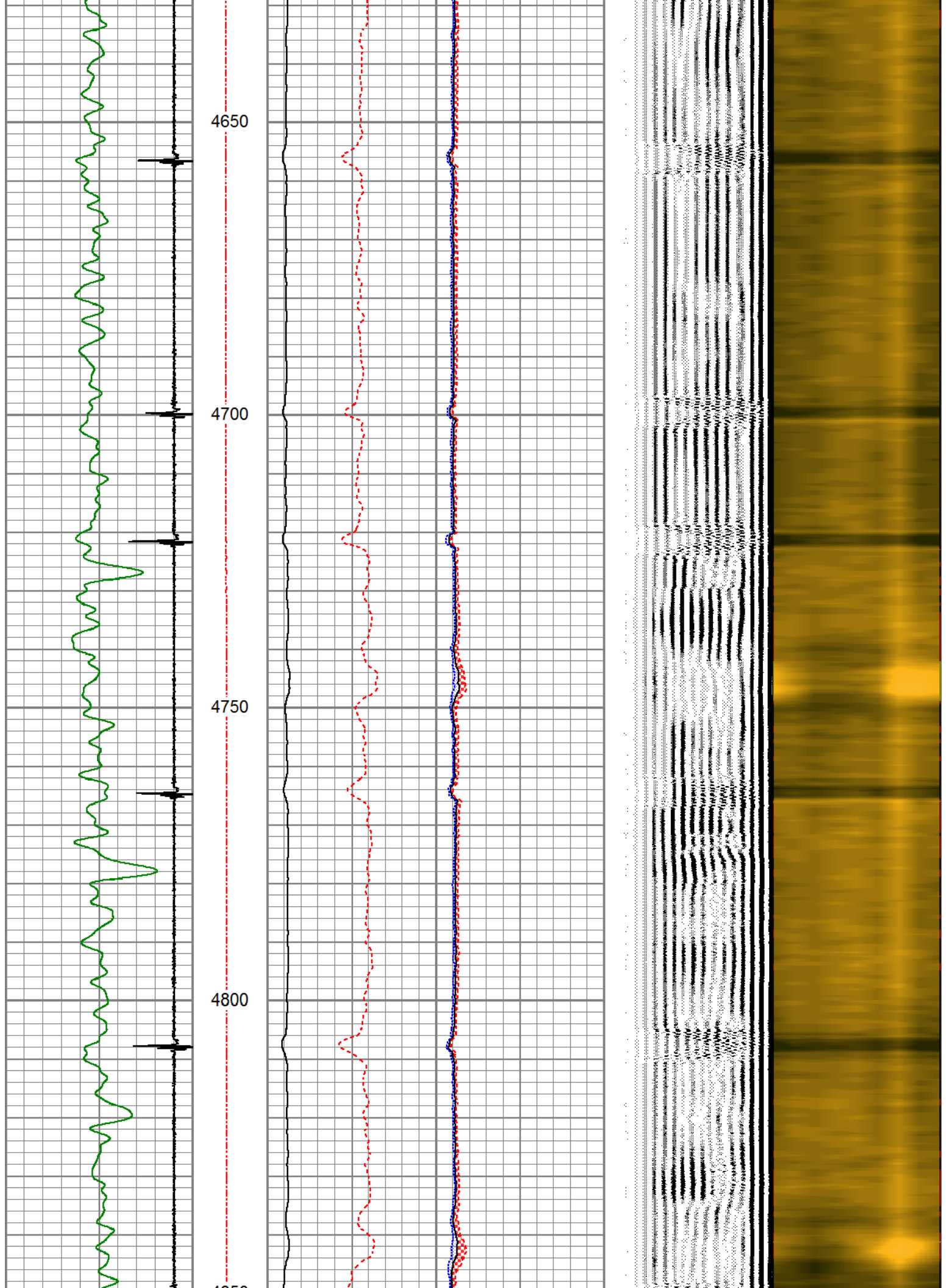
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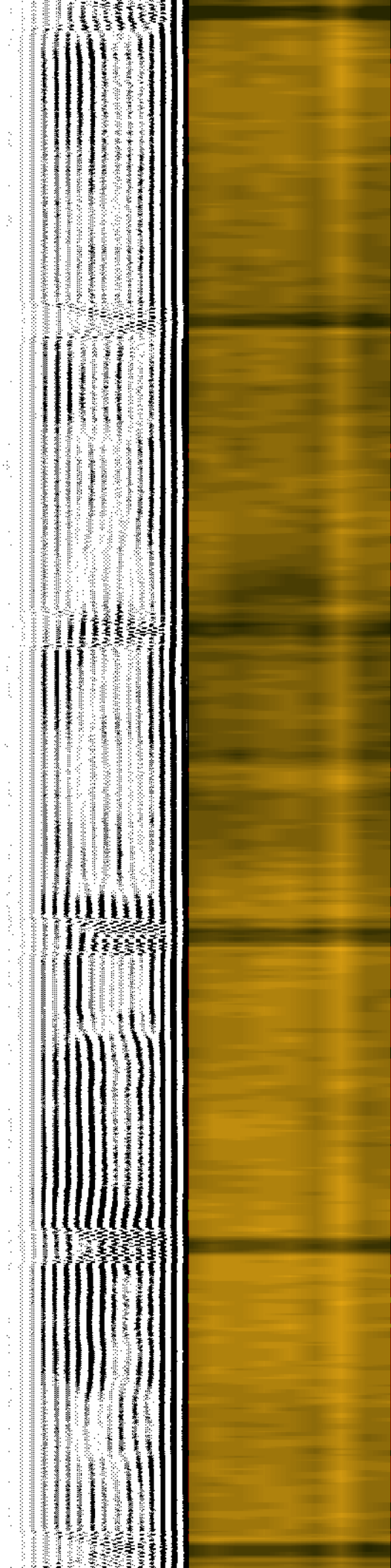
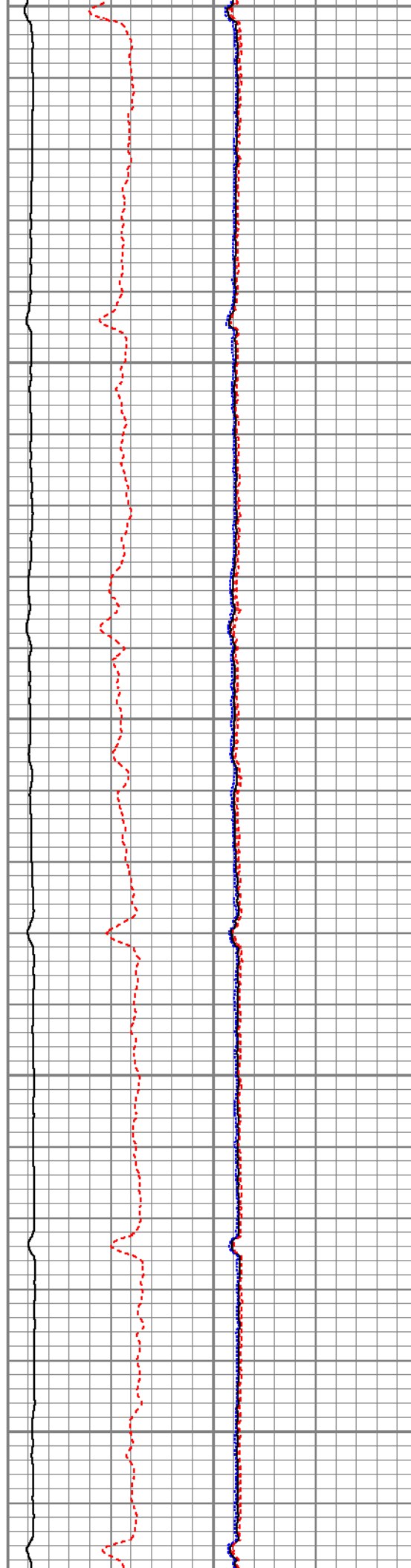
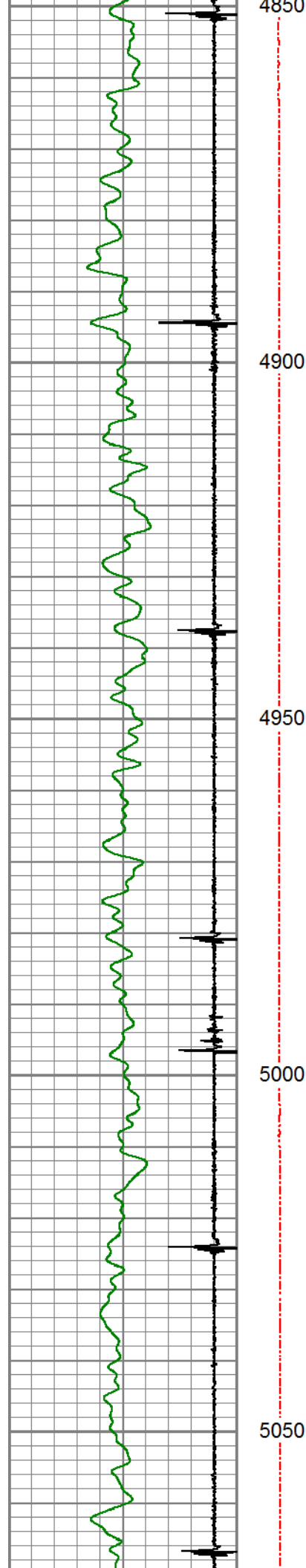
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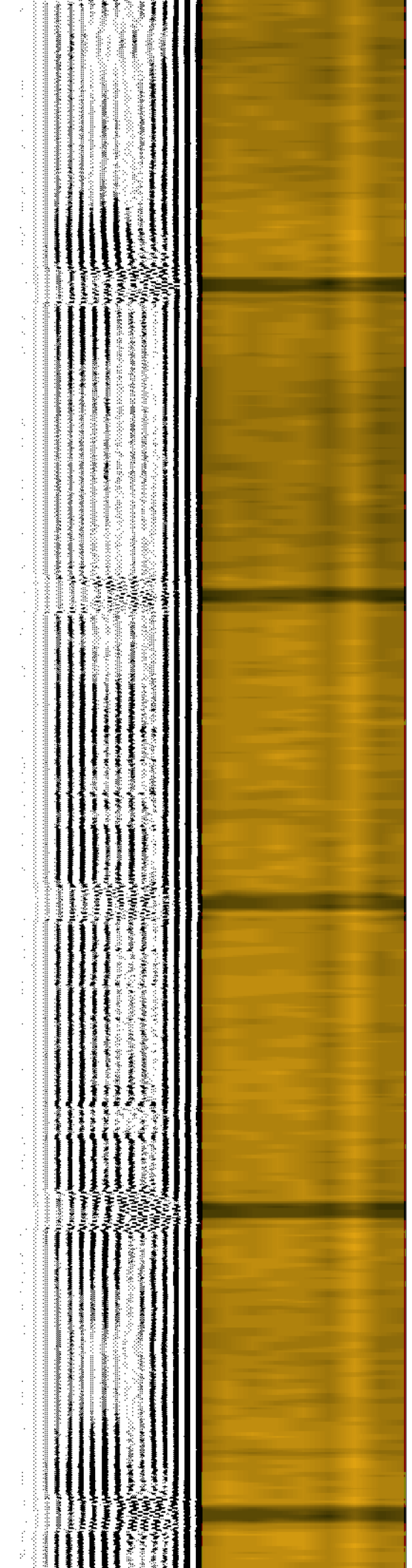
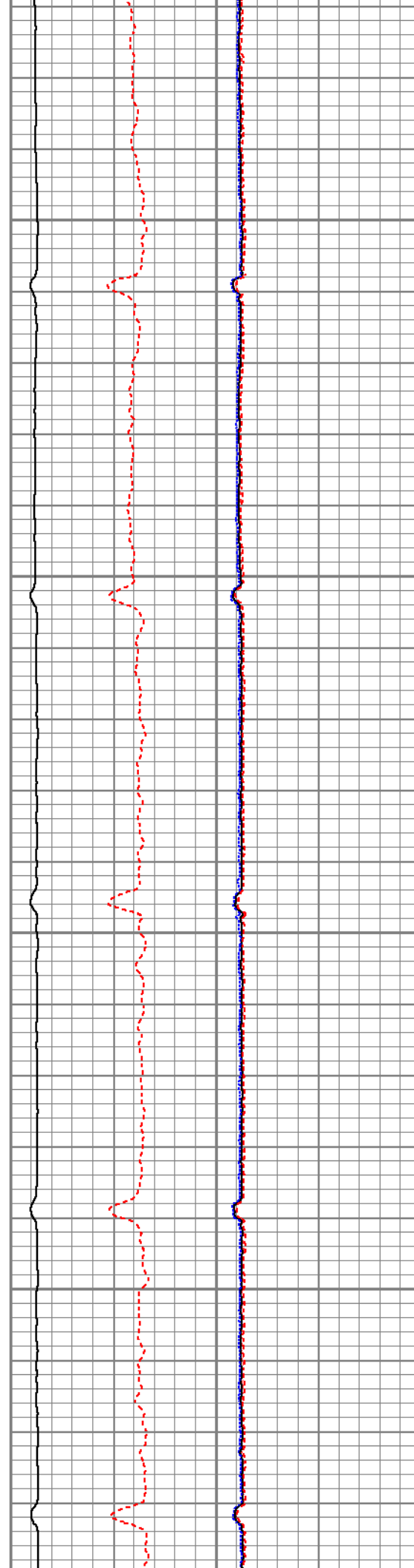
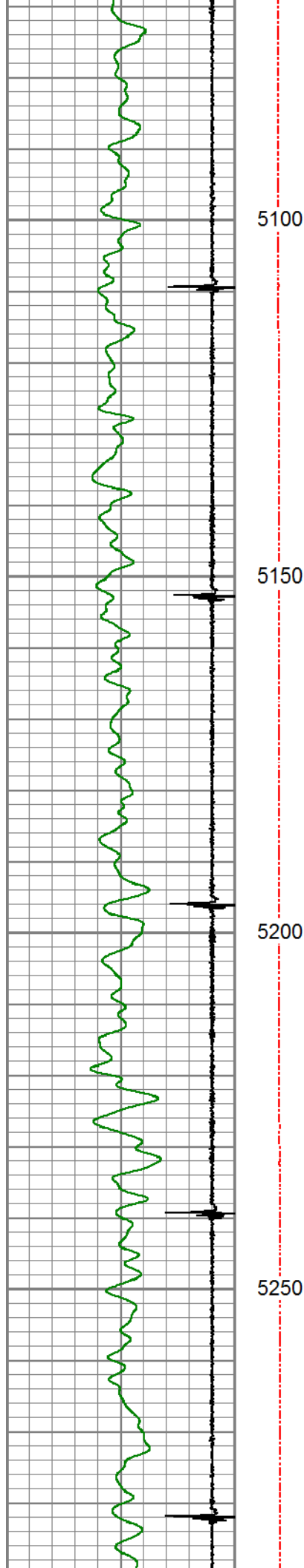


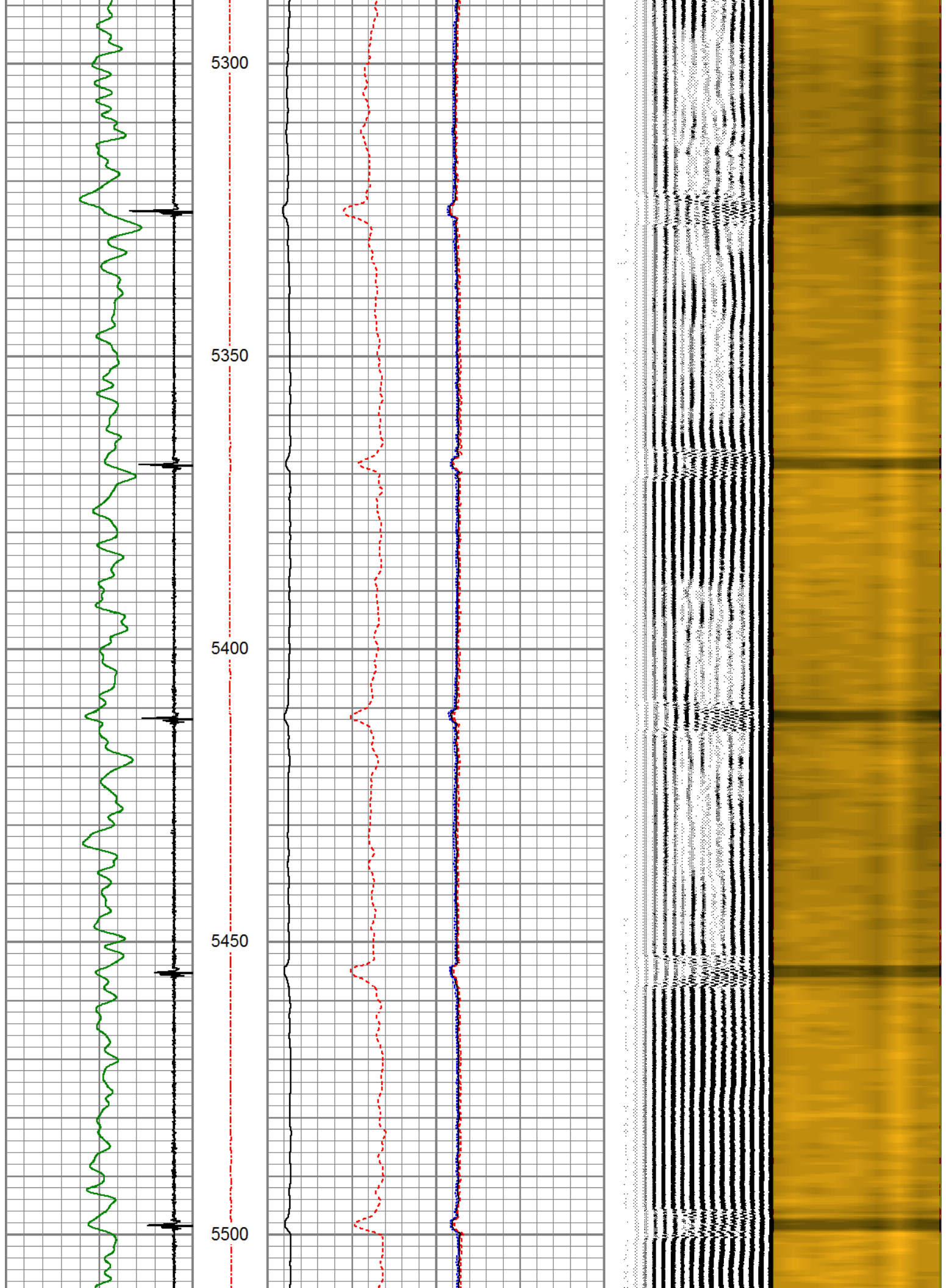


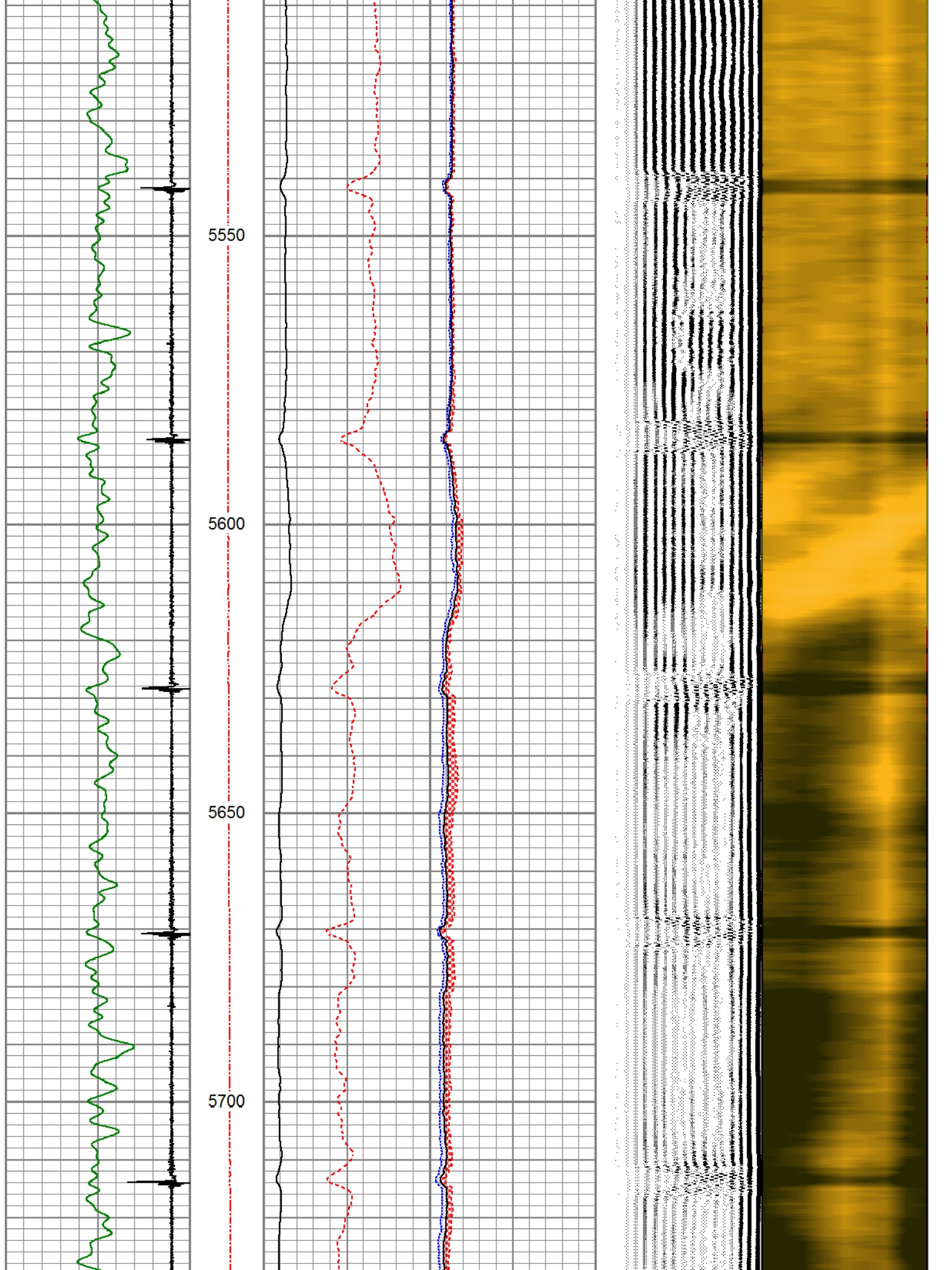


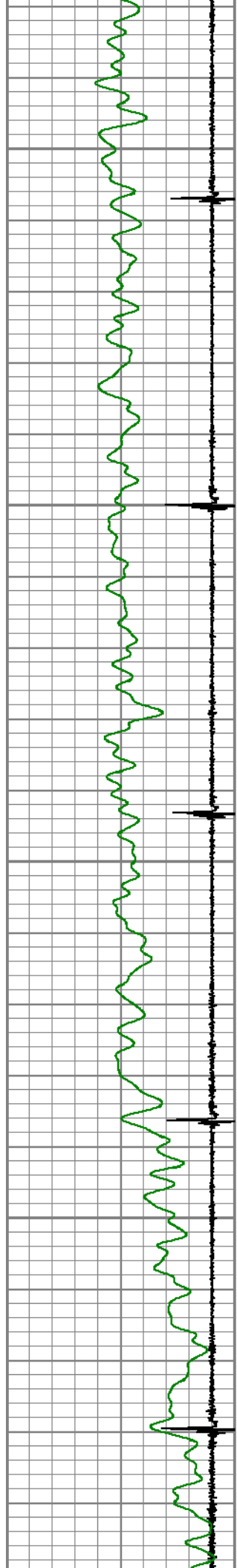




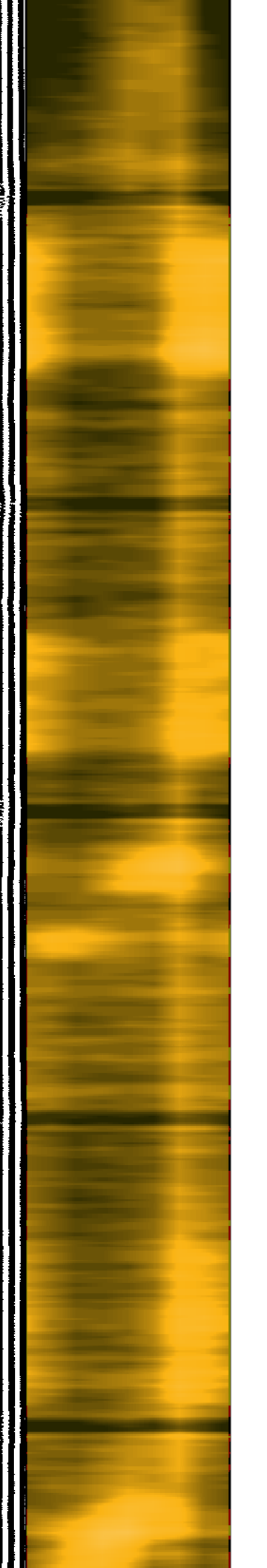
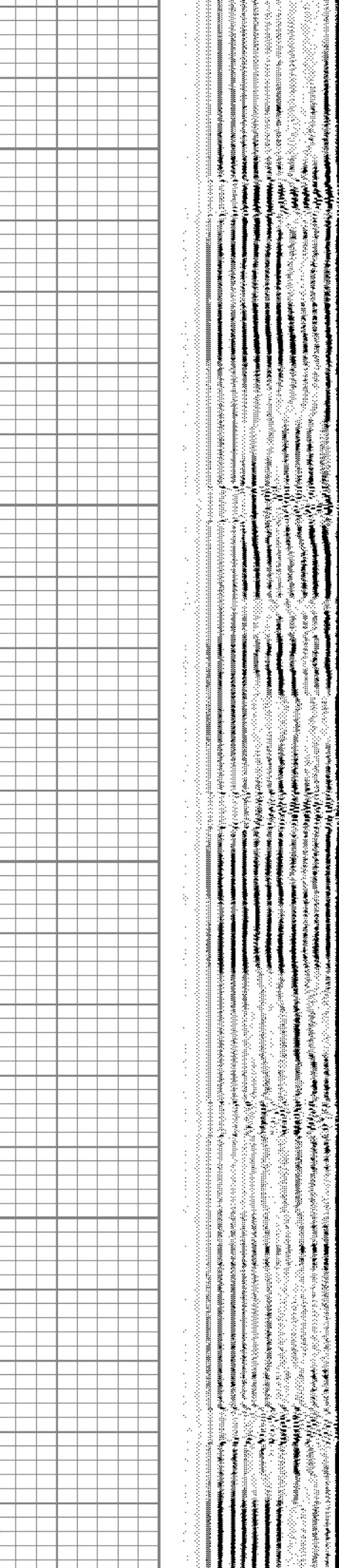
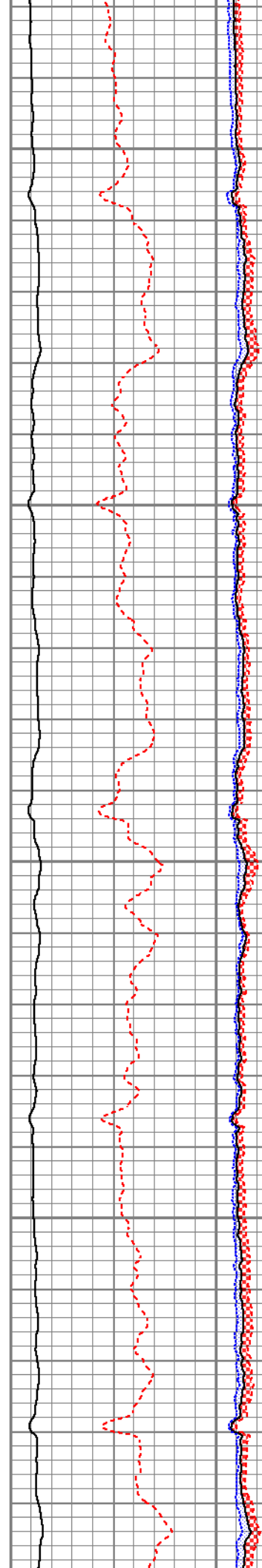


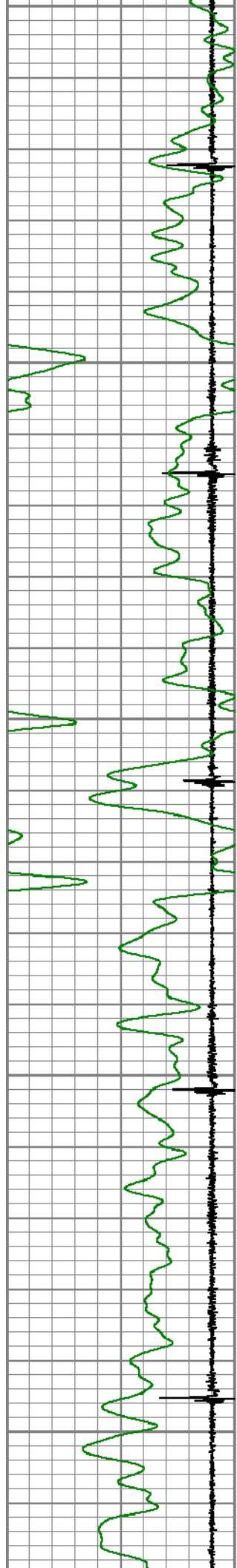




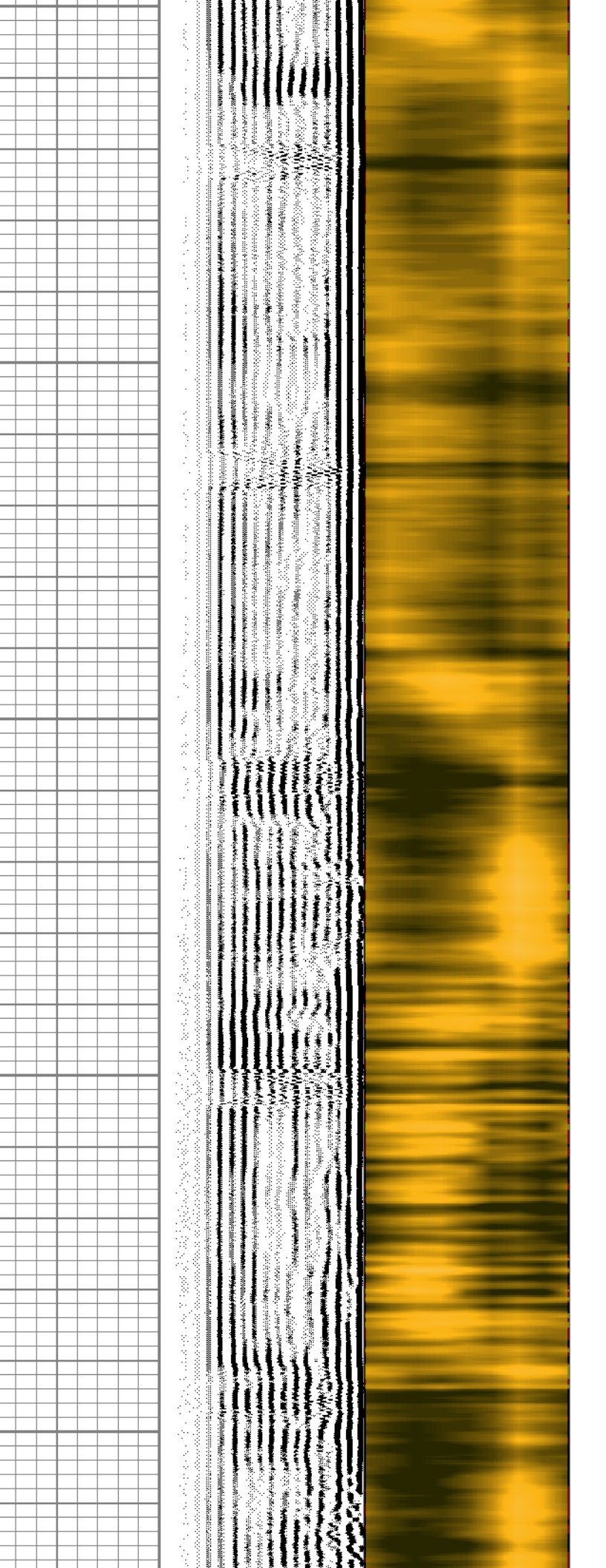
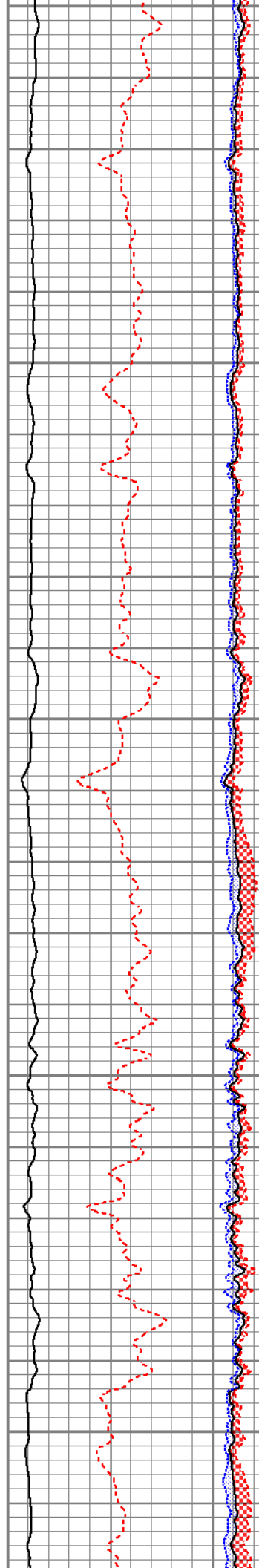


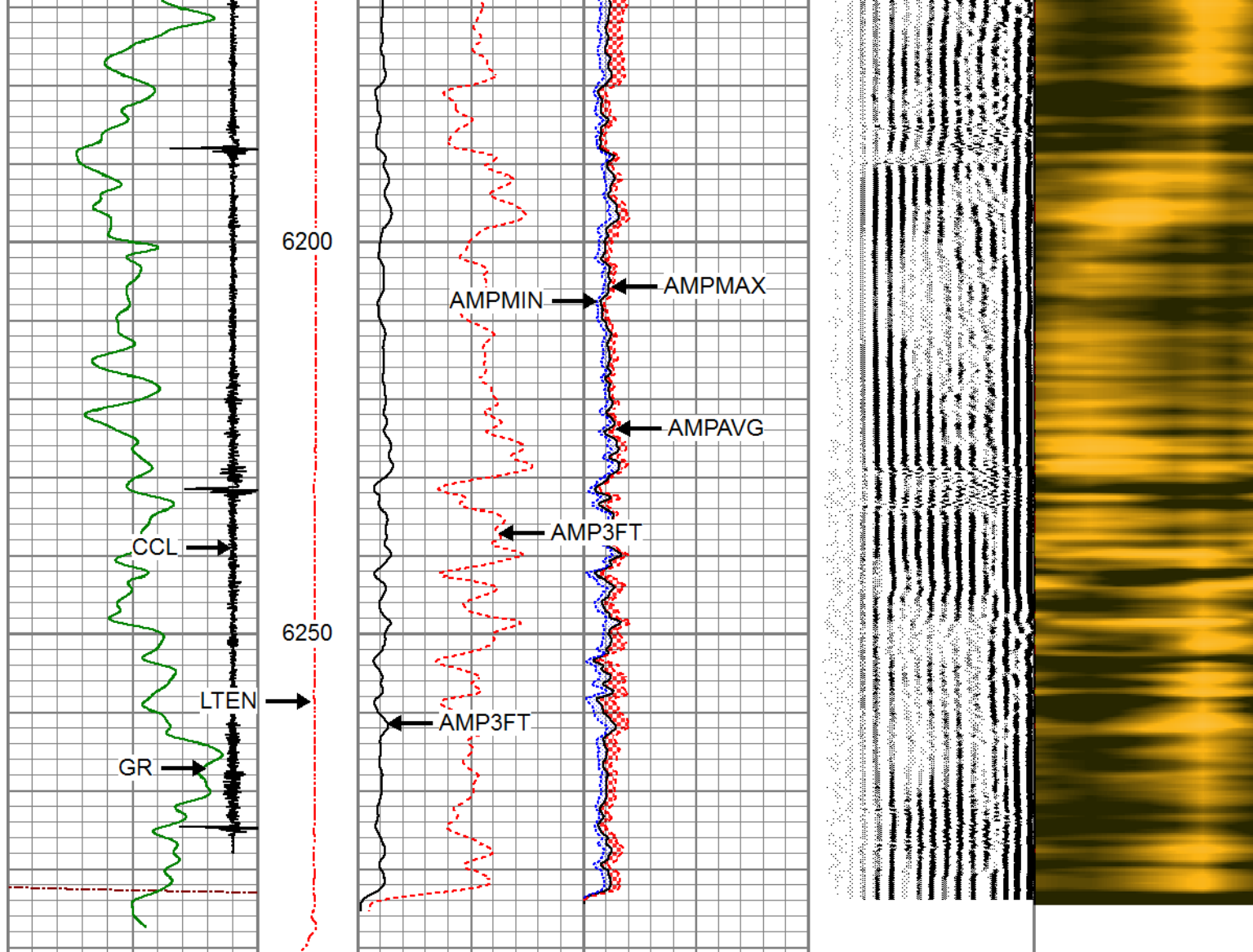
5750
5800
5850
5900
5950





5950
6000
6050
6100
6150





3Ft Travel Time	ineTensio	3' Amplitude	Sector	VDL	1	Sector Map	8
286 (usec) 186	(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				



MAIN LOG

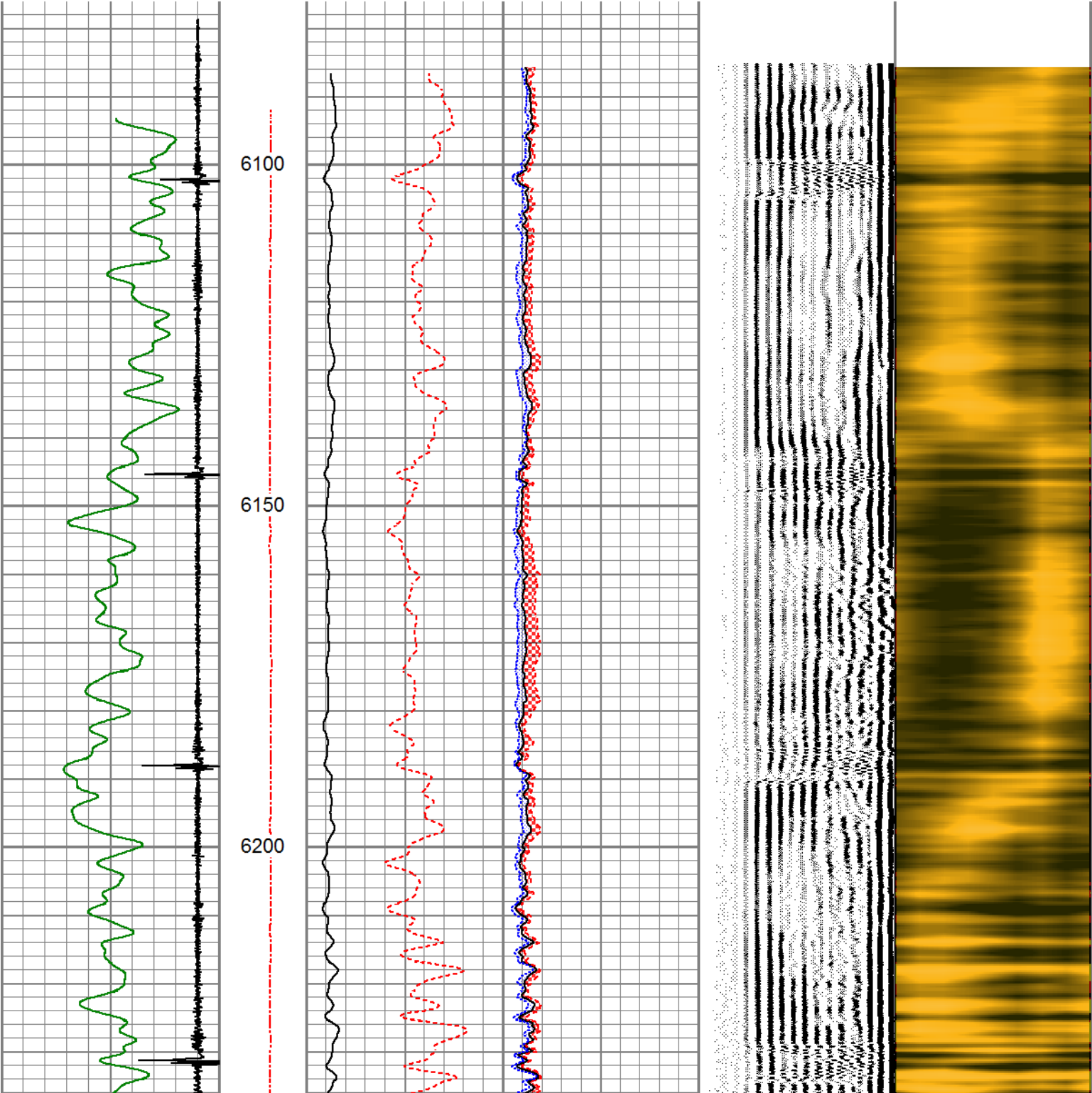
ZERO PSI APPLIED AT SURFACE

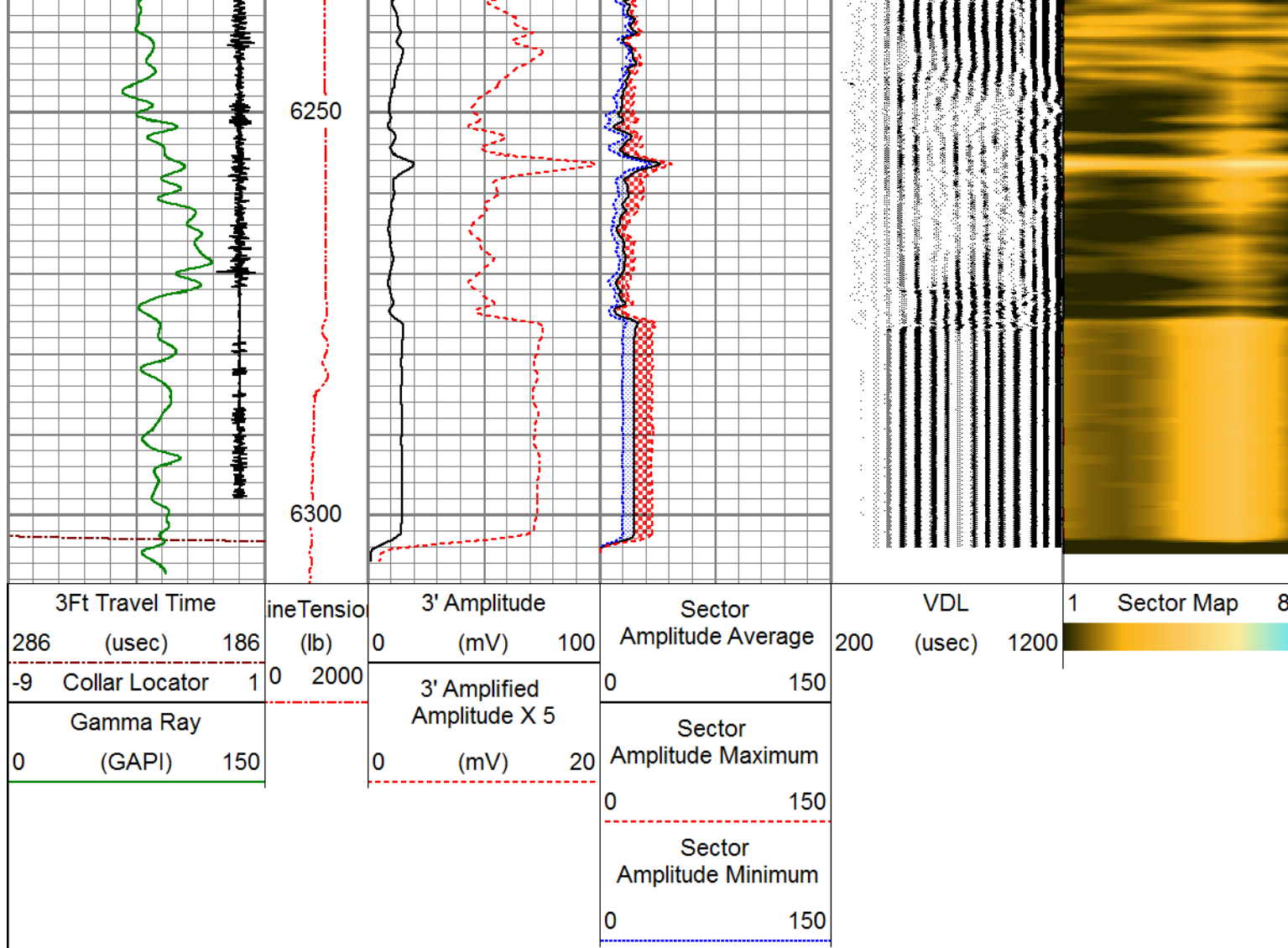


REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

3Ft Travel Time	ineTensio	3' Amplitude	Sector	VDL	Sector Map
286 (usec) 186	(lb)	0 (mV) 100	Amplitude Average	200 (usec) 1200	1 8
-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		





Calibration Report		
Database File	highpoint_rsu_05123_20190705.db	
Dataset Pathname	pass5	
Dataset Creation	Fri Jul 05 13:01:33 2019	

Gamma Ray Calibration Report		
Serial Number:	080629	
Tool Model:	275 Probe	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	FW1401-41-T	
Tool Model:	RBL-DC	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	272.525	ft

Master Calibration, performed Fri Jul 05 12:39:50 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.000	0.965	1.000	62.165	63.381	1.015
CAL	0.005	1.496				
5'	-0.005	1.059	1.000	62.165	57.472	1.291
SUM						
S1	0.014	0.958	0.000	100.000	105.948	-1.450
S2	0.005	0.979	0.000	100.000	102.711	-0.563
S3	0.004	0.971	0.000	100.000	103.393	-0.440
S4	0.002	0.954	0.000	100.000	105.097	-0.221
S5	0.001	0.935	0.000	100.000	107.117	-0.133
S6	0.005	0.924	0.000	100.000	108.828	-0.553
S7	0.001	0.942	0.000	100.000	106.253	-0.073
S8	0.008	0.964	0.000	100.000	104.593	-0.877

Air Zero Calibration, performed Thu Nov 29 15:24:07 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 HIGHPOINT OPERATING CORP.
 Well RSU ANSCHUTZ FED 4-61-04-0909CN
 Field WATTENBERG
 County WELD
 State COLORADO