



**PIONEER**

Pioneer Energy Services

**RADIAL BOND LOG  
WITH GAMMA RAY**

Company **MAGPIE OPERATING INC.**

Well **CAMPION 5-6 #1-H**

Field **LOVELAND**

County **WELD** State **COLORADO**

Location: API #: 05-123-50139

386' FNL & 1880' FWL

NE NW

SEC 5 TWP 4N RGE 68W

NONE

NONE

Permanent Datum GL  
Log Measured From KB 19.5' Above Perm. Datum  
Drilling Measured From KB

Elevation 5068'  
K.B. 5087.5'  
D.F. N/A  
G.L. 5068'

Date of Service 13 AUGUST 2019

Run Number

Depth Driller or P8TD

Depth Logger

Bottom Log Interval

Top Log Interval

Open Hole Size

Type Fluid

Fluid Level

Fluid Density

Max. Recorded Temperature

Max. Wellhead Pressure

Wellhead Connection

Estimated Cement Top

Unit Number

Wireline Size

Location

Recorded By

Witnessed By

Size

Wt/Ft

Top

Bottom

9.625"

36#

SURFACE

1520'

7"

23 & 26#

SURFACE

5865'

Production Casing

Liner Record

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.  
CORRELATED TO CUSTOMER MARKER JOINT  
NO FREE PIPE. CALIBRATION FROM FILE

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew

Tool Data - Services

Serial Number

Engineer: SCHOENROGGE  
Operator: MACIAS  
Operator:  
Operator:

SEE DIAGRAM  
PLUS OVERBODIES



Top - Bottom

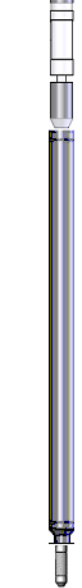
BOREID in 8.75	BOTTEMP degF 180	CASEOD in 7	CASETHCK in 0.317	CASEWGHT lb/ft 23	MAXAMPL mV 62.2	MINAMPL mV 1
MINATTN db/ft 0.08	PERFS 0	PPT usec 287	SRFTEMP degF 50	TDEPTH ft 5800		


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	13.13		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	7.88		PROBE-RBT-DIGITAL-RBL-DC (FW1304-38.75) Probe 2 3/4" Radii Bond-Corrosion Package		2.75	100.00
WVFS7	7.88					
WVFS6	7.88					
WVFS5	7.88					
WVFS4	7.88					
WVFS3	7.88					
WVFS2	7.88					
WVFS1	7.88					
WVFCAL	7.88					
WVF3FT	7.88					
WVF5FT	6.88					

HEADVOLT	3.69					
			GR-275 Probe (080629) Probe 2.75" Gamma Ray	3.36	2.75	40.00
GR	1.15					
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00
Dataset: magpie_campion 5-6#1-h_0512350139_20190813_scbl.db: field/well/run1/pass5 Total length: 15.31 ft Total weight: 158.00 lb O.D.: 2.75 in						

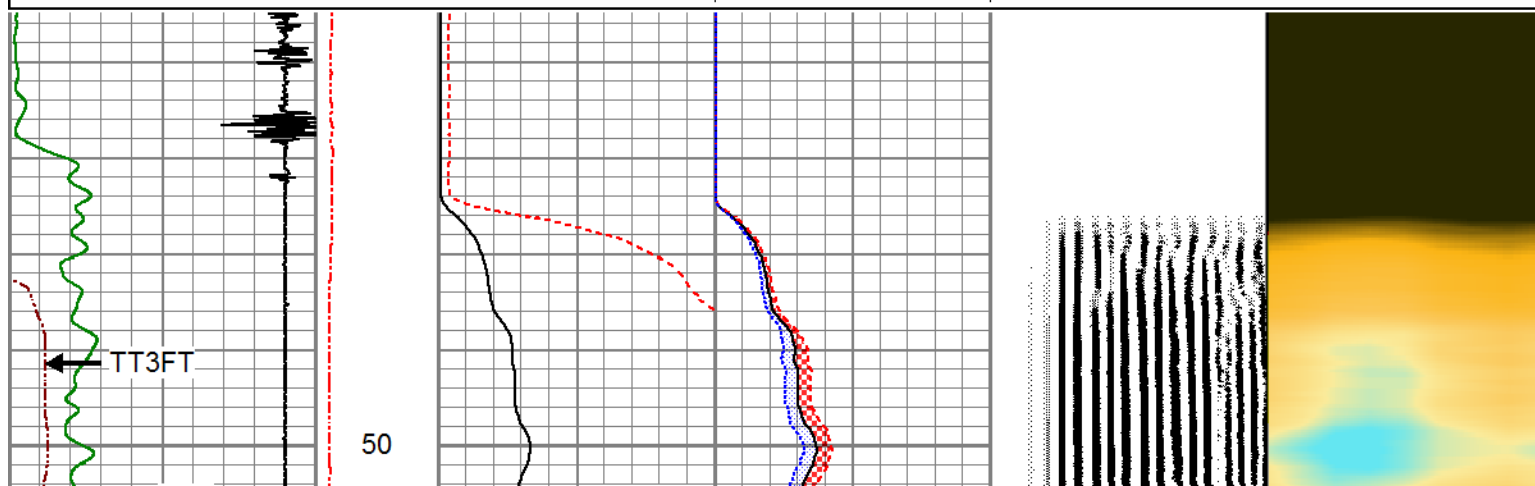


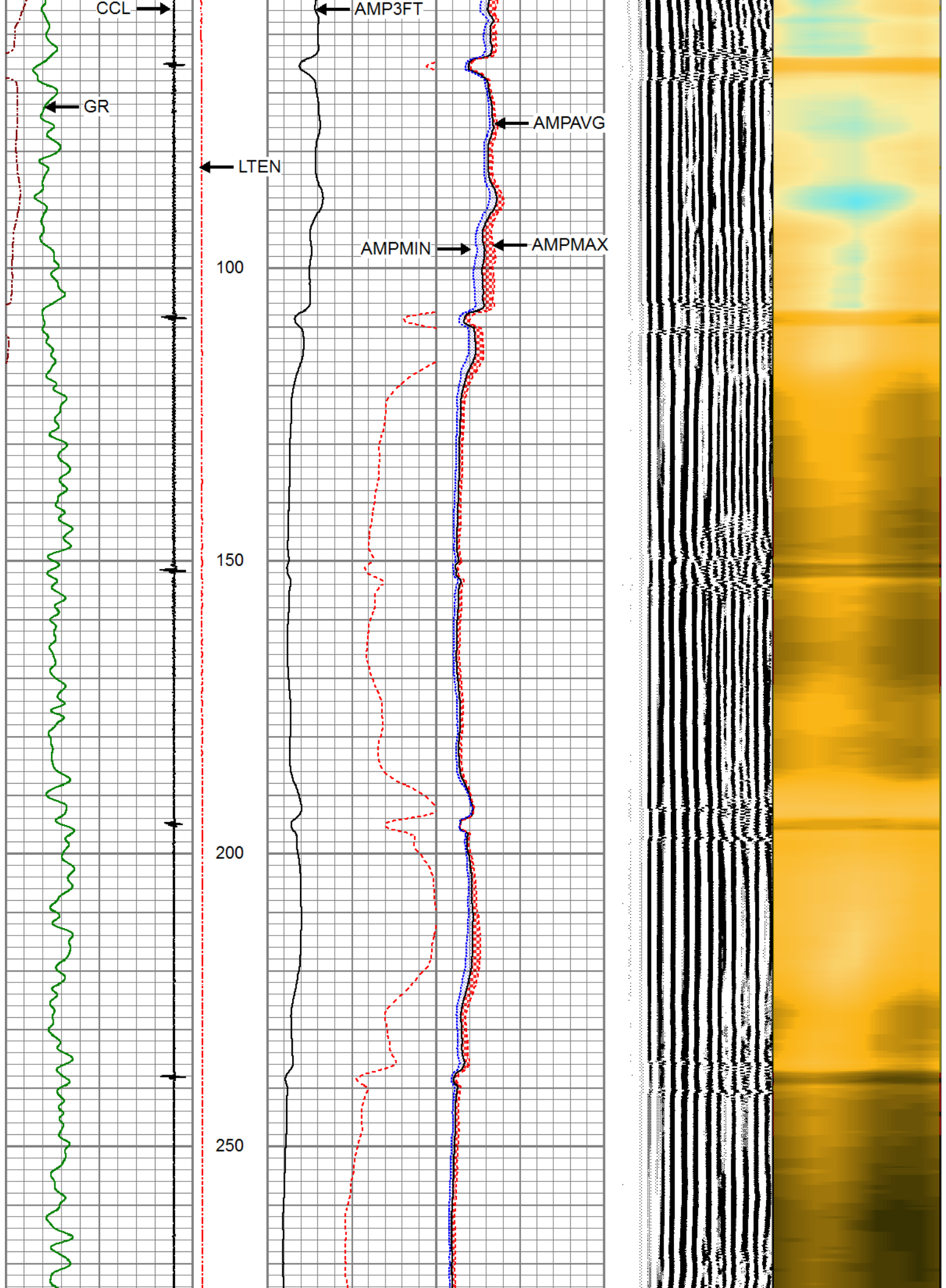
# MAIN LOG

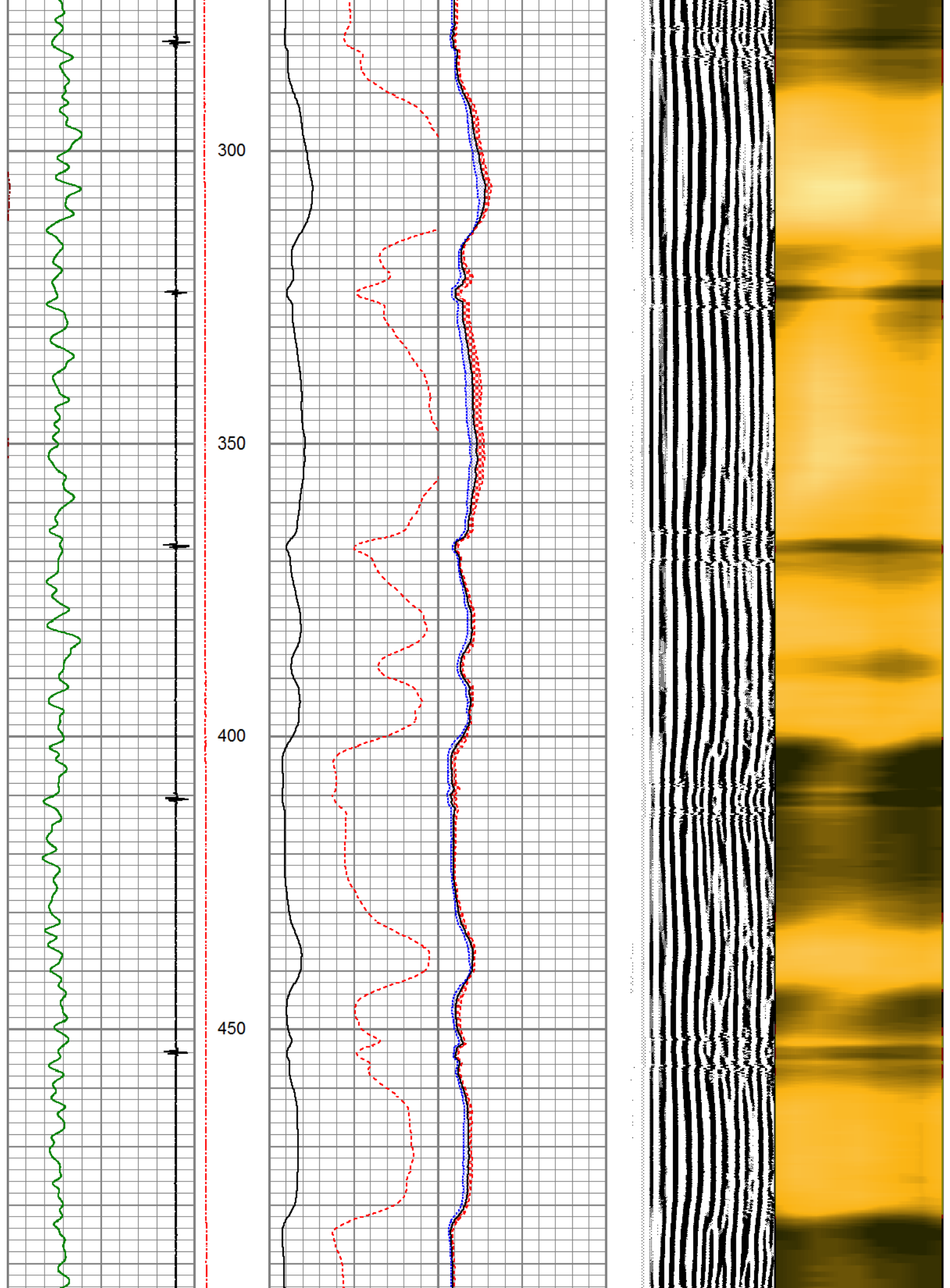
## ZERO PSI APPLIED AT SURFACE

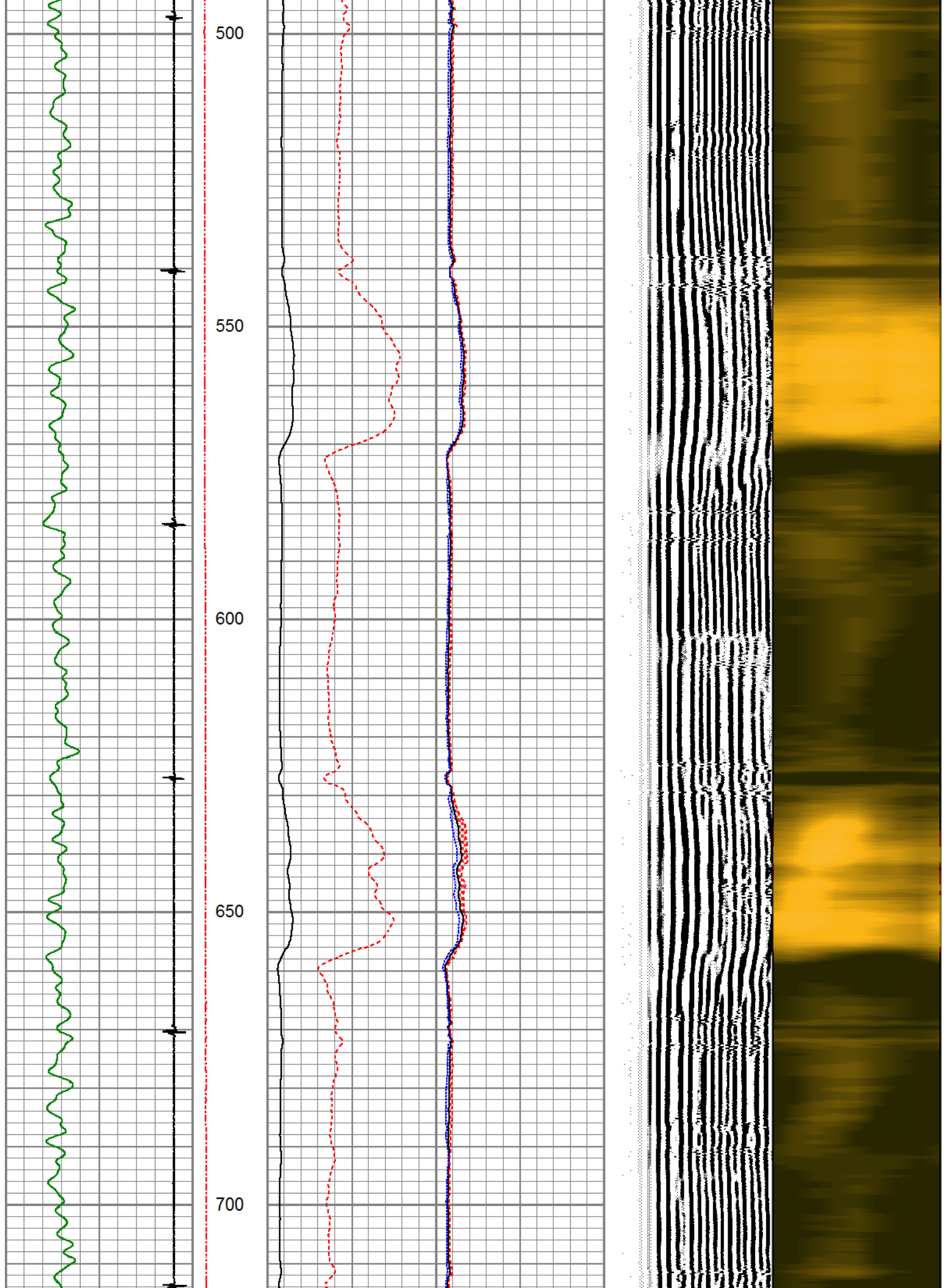
Database File	magpie_campion 5-6#1-h_0512350139_20190813_scbl.db
Dataset Pathname	pass5
Presentation Format	pinr_scbl
Dataset Creation	Tue Aug 13 10:23:45 2019
Charted by	Depth in Feet scaled 1:240

3Ft Travel Time	ineTensio	3' Amplitude	Sector	VDL	1	Sector Map	8
307 (usec) 207	(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				

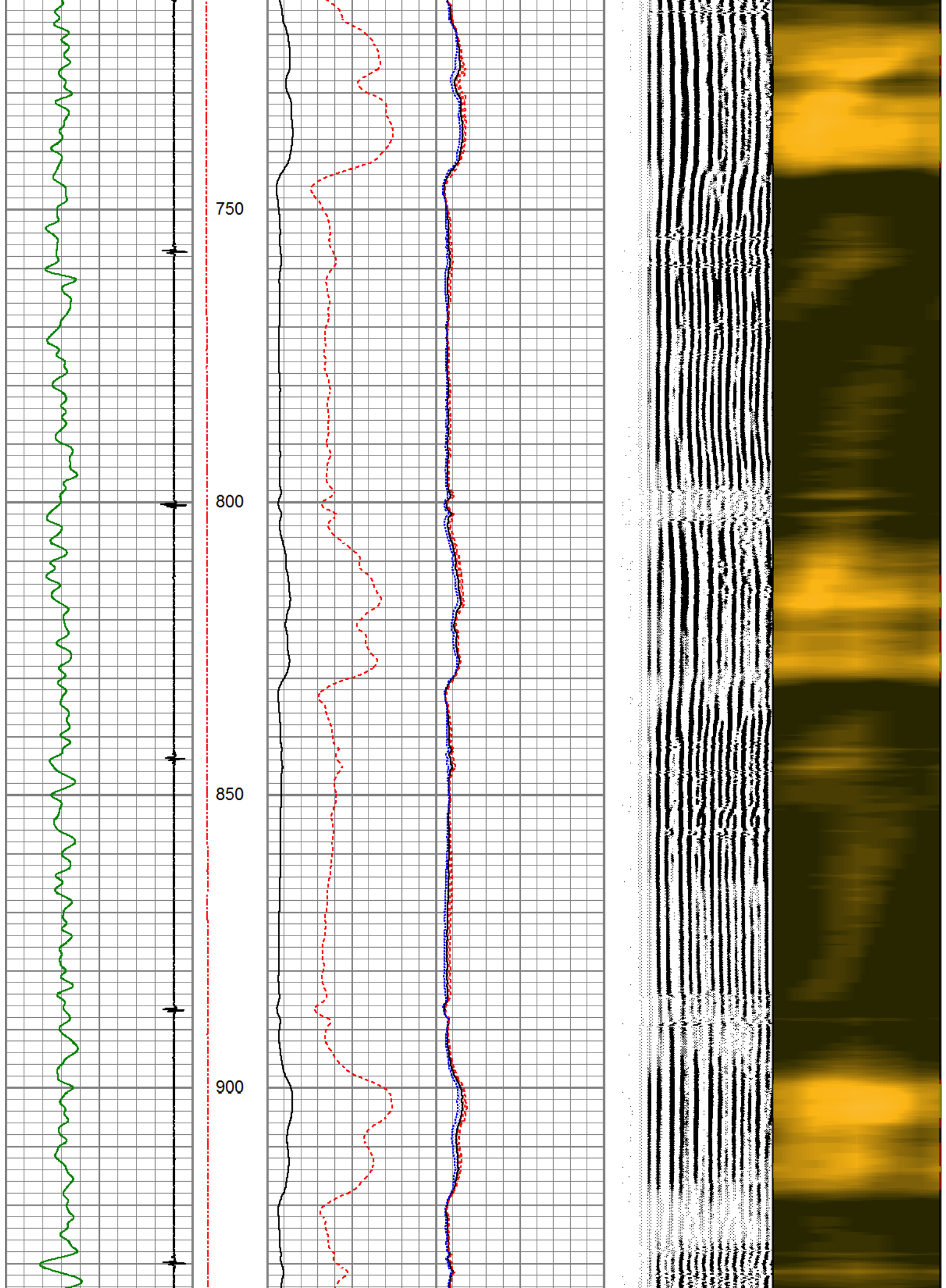


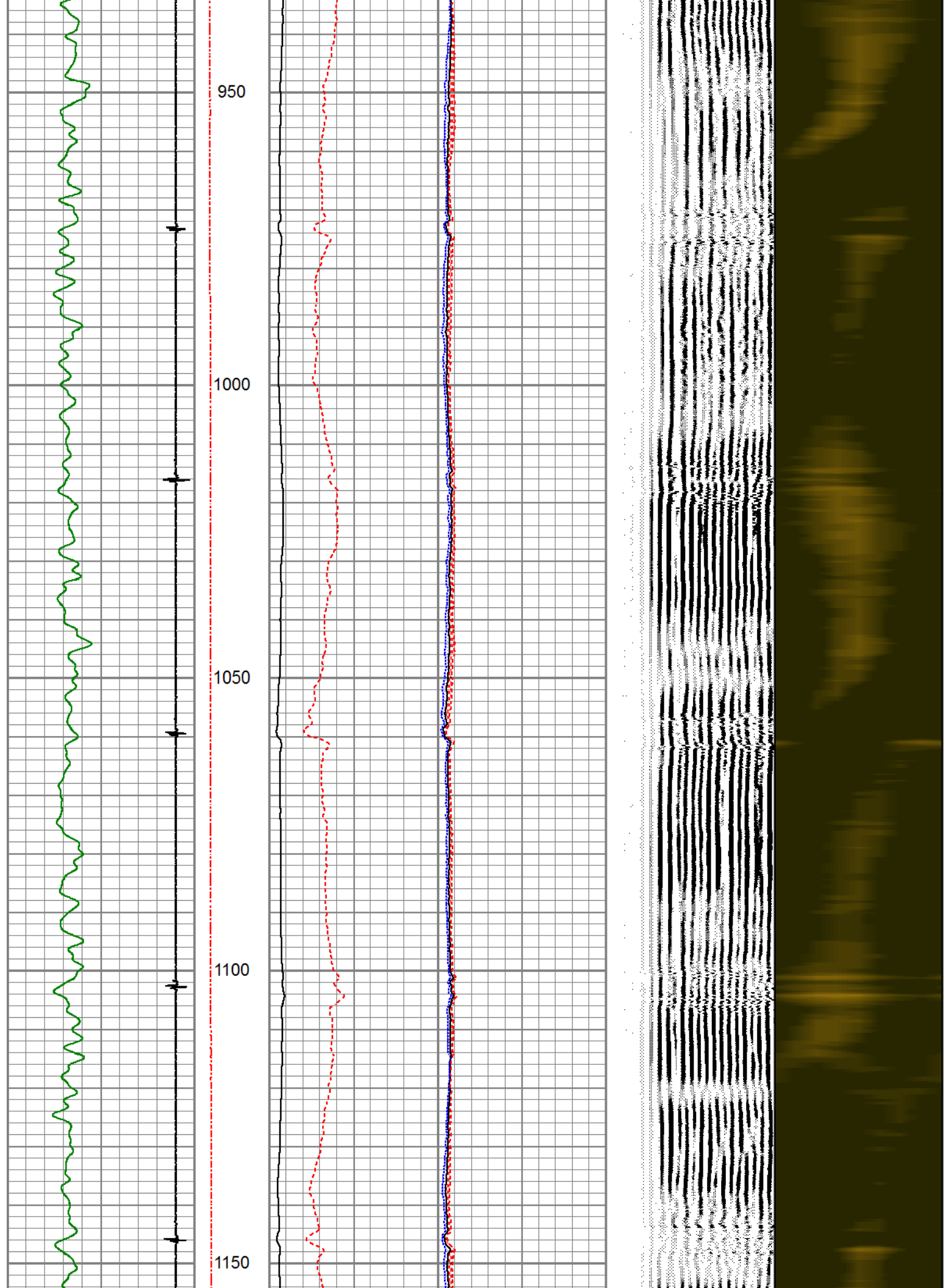




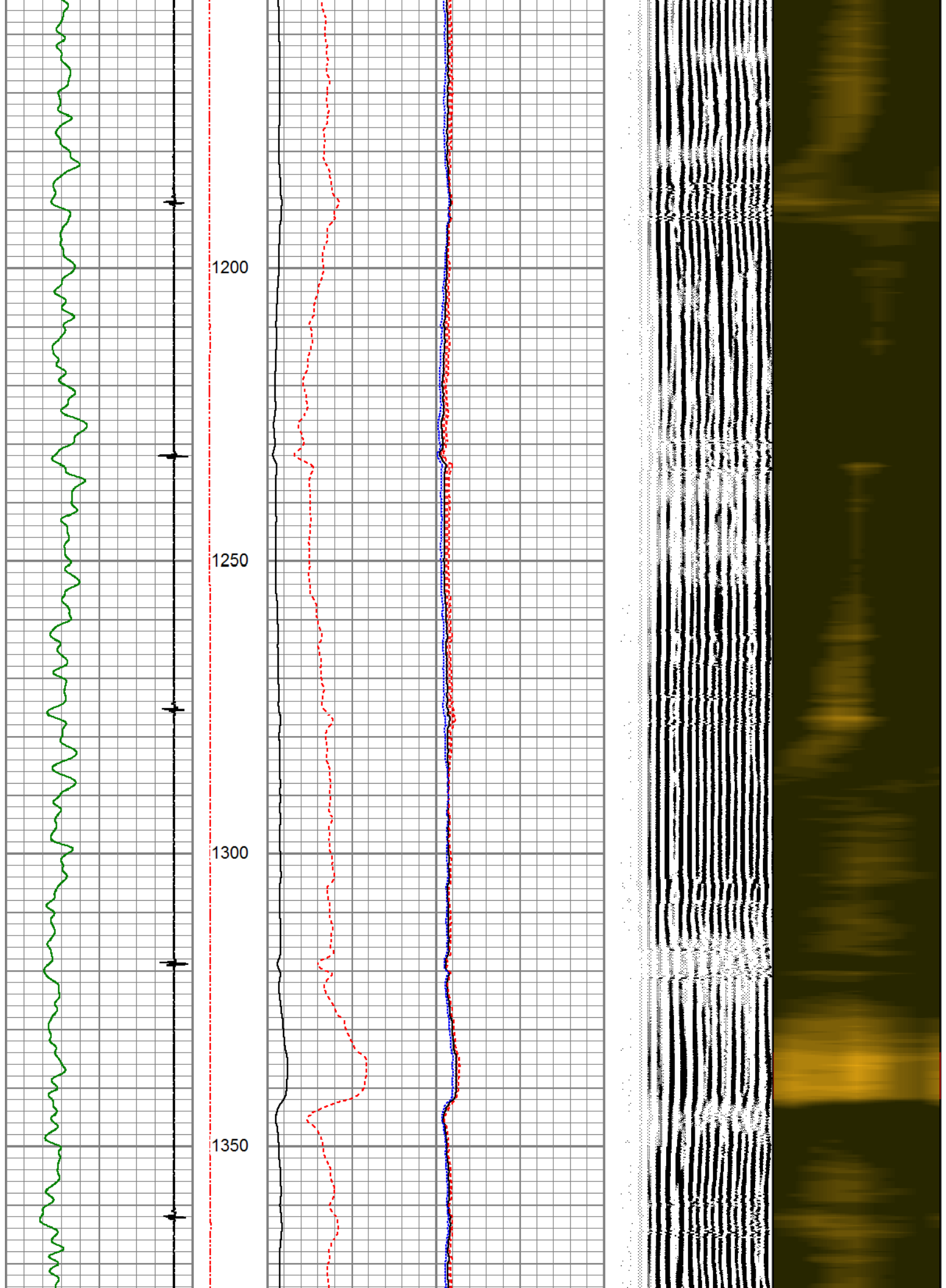


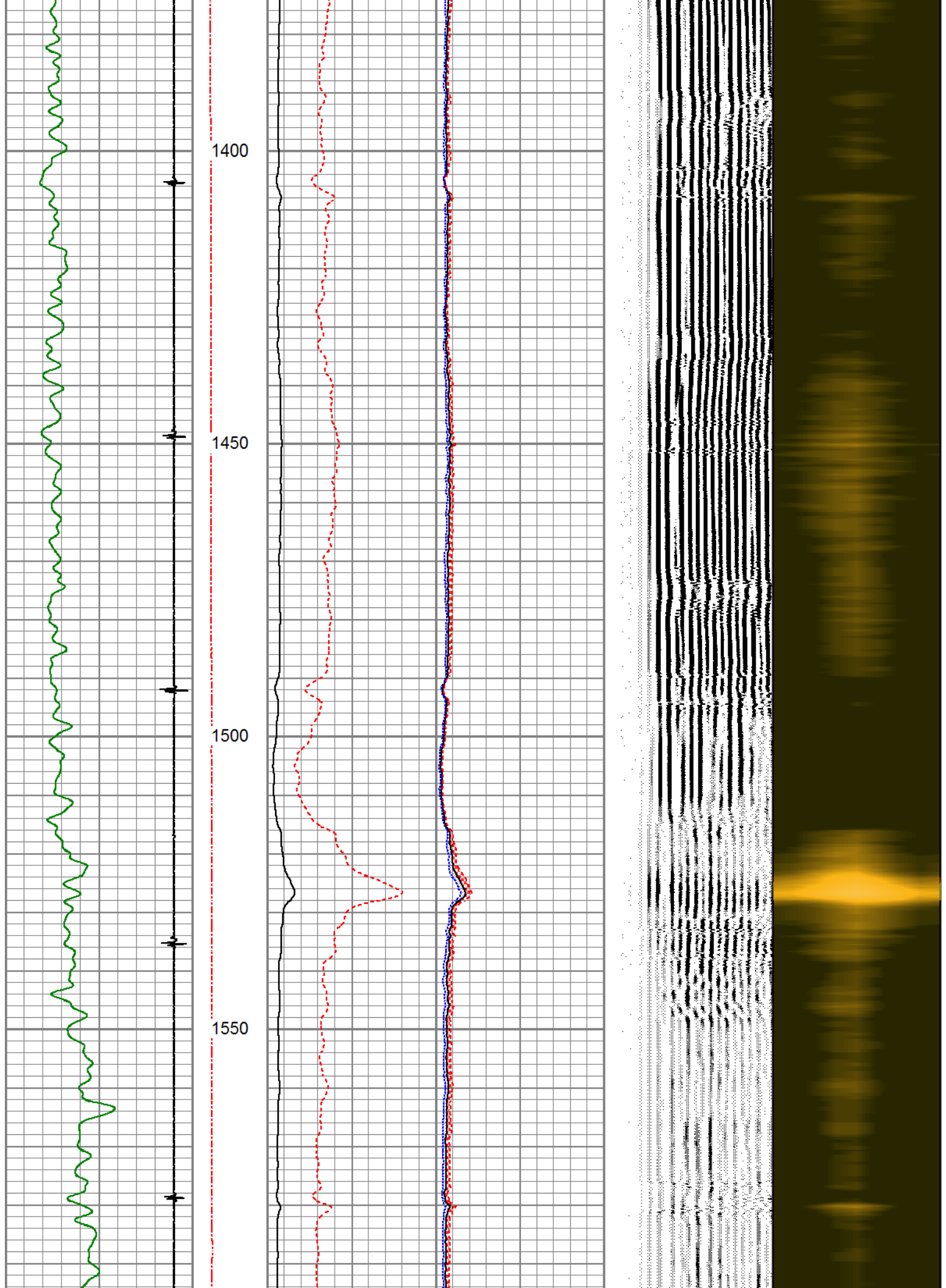


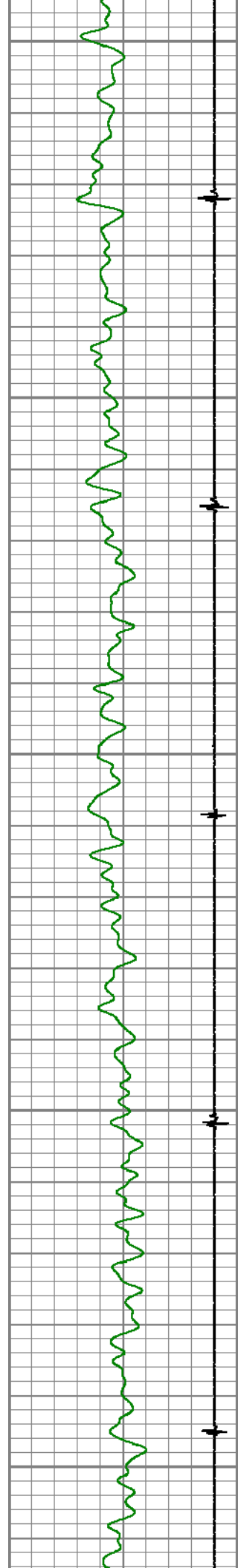












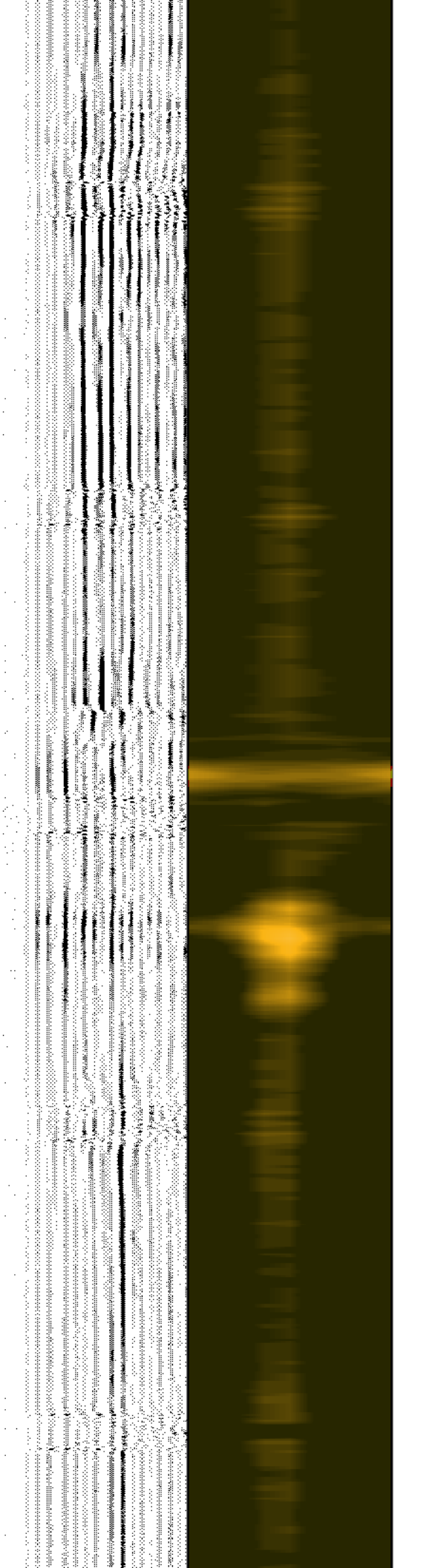
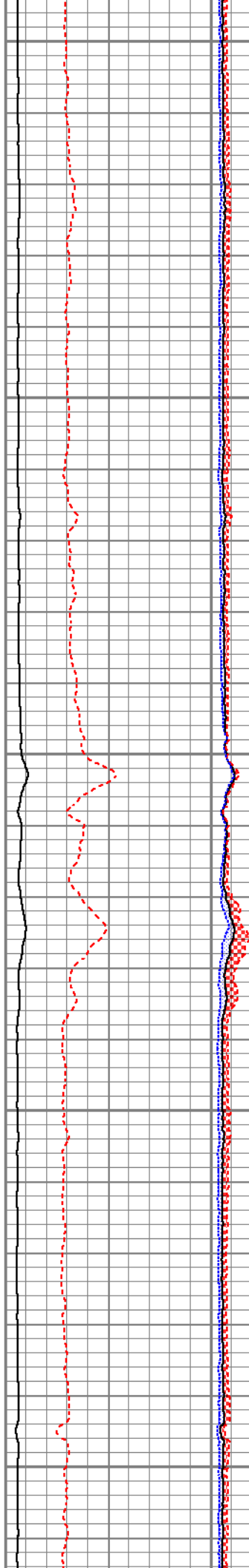
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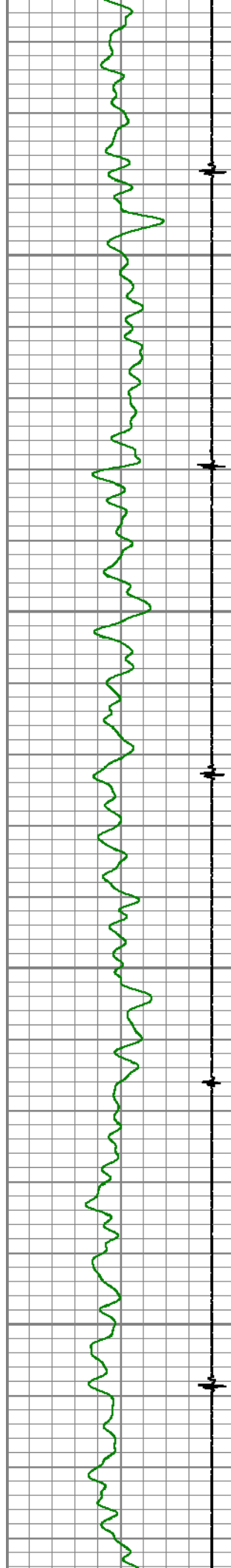
1650

1700

1750

1800



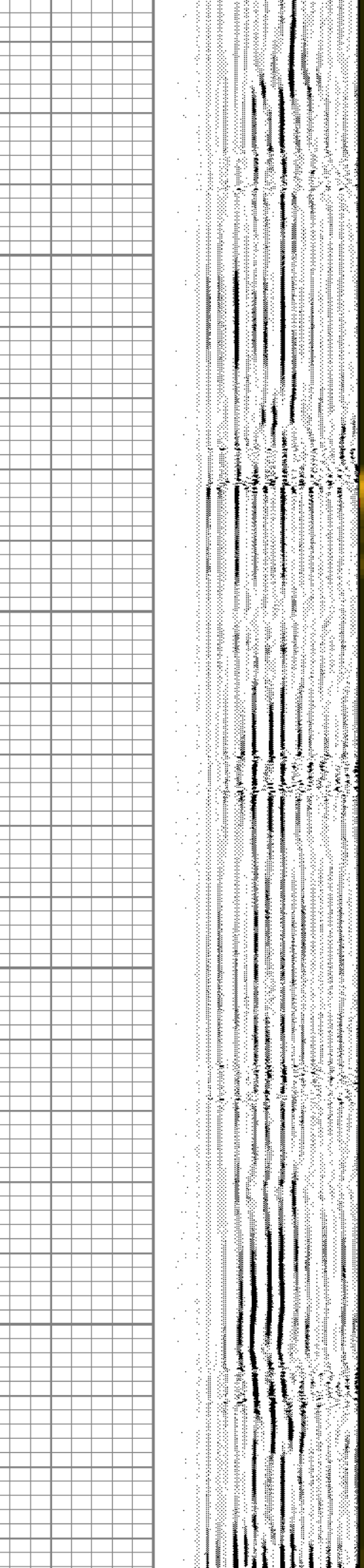
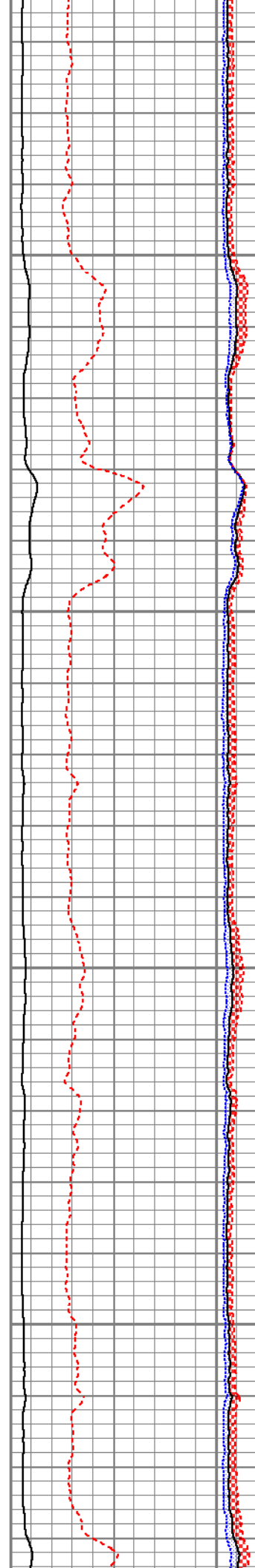


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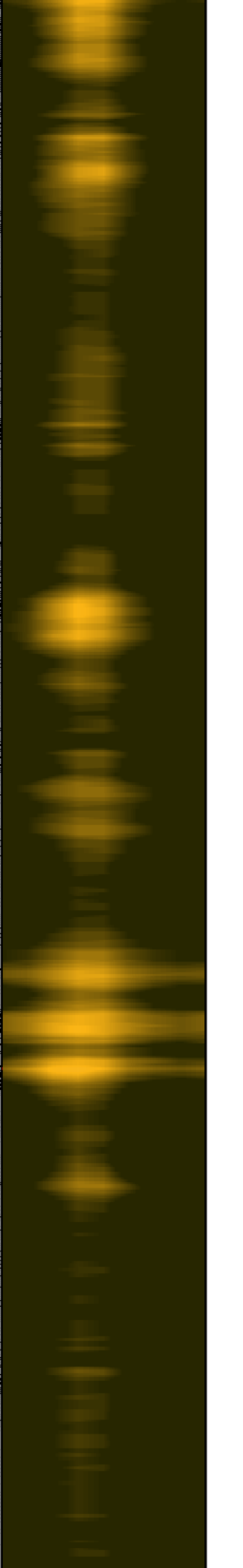
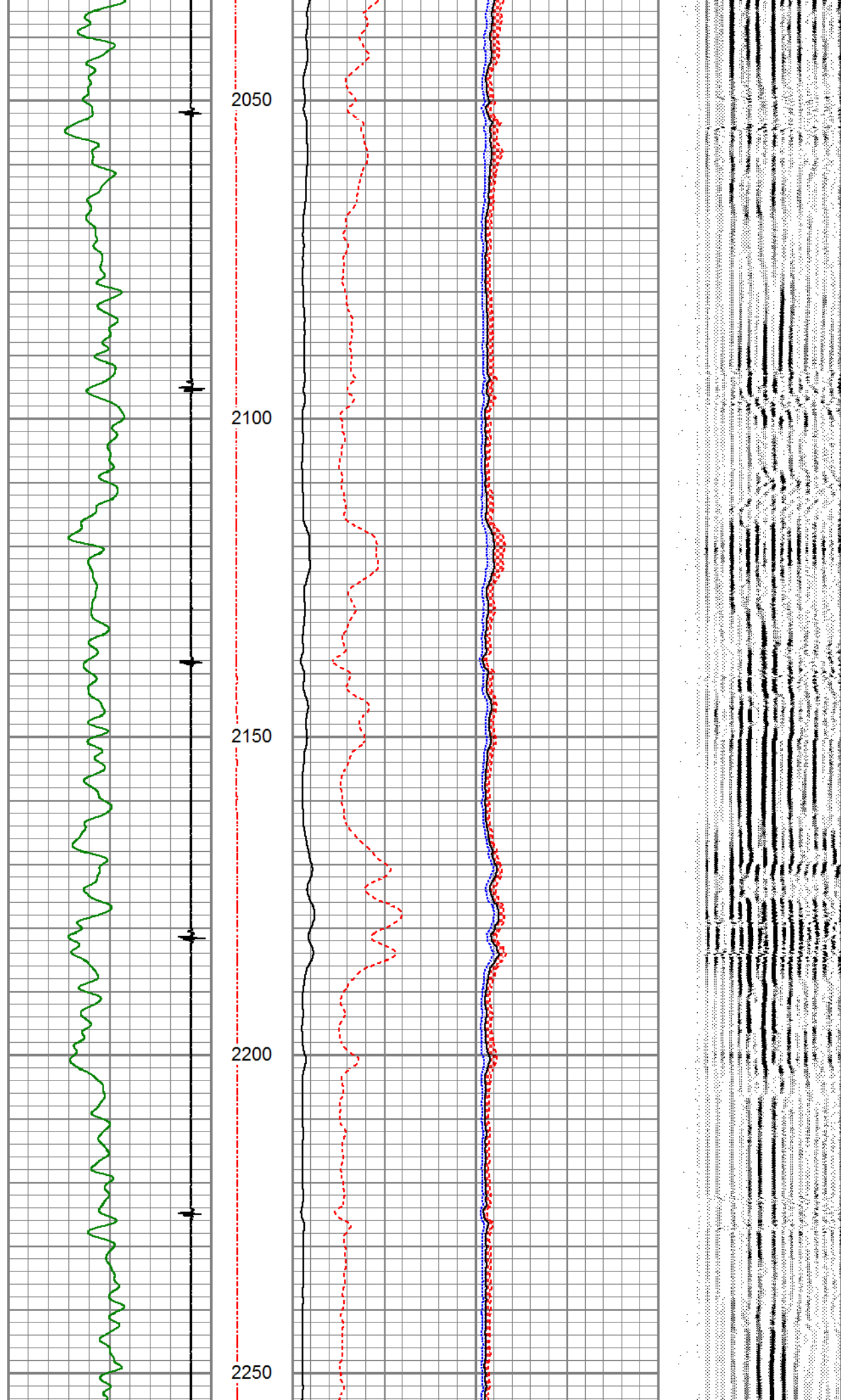
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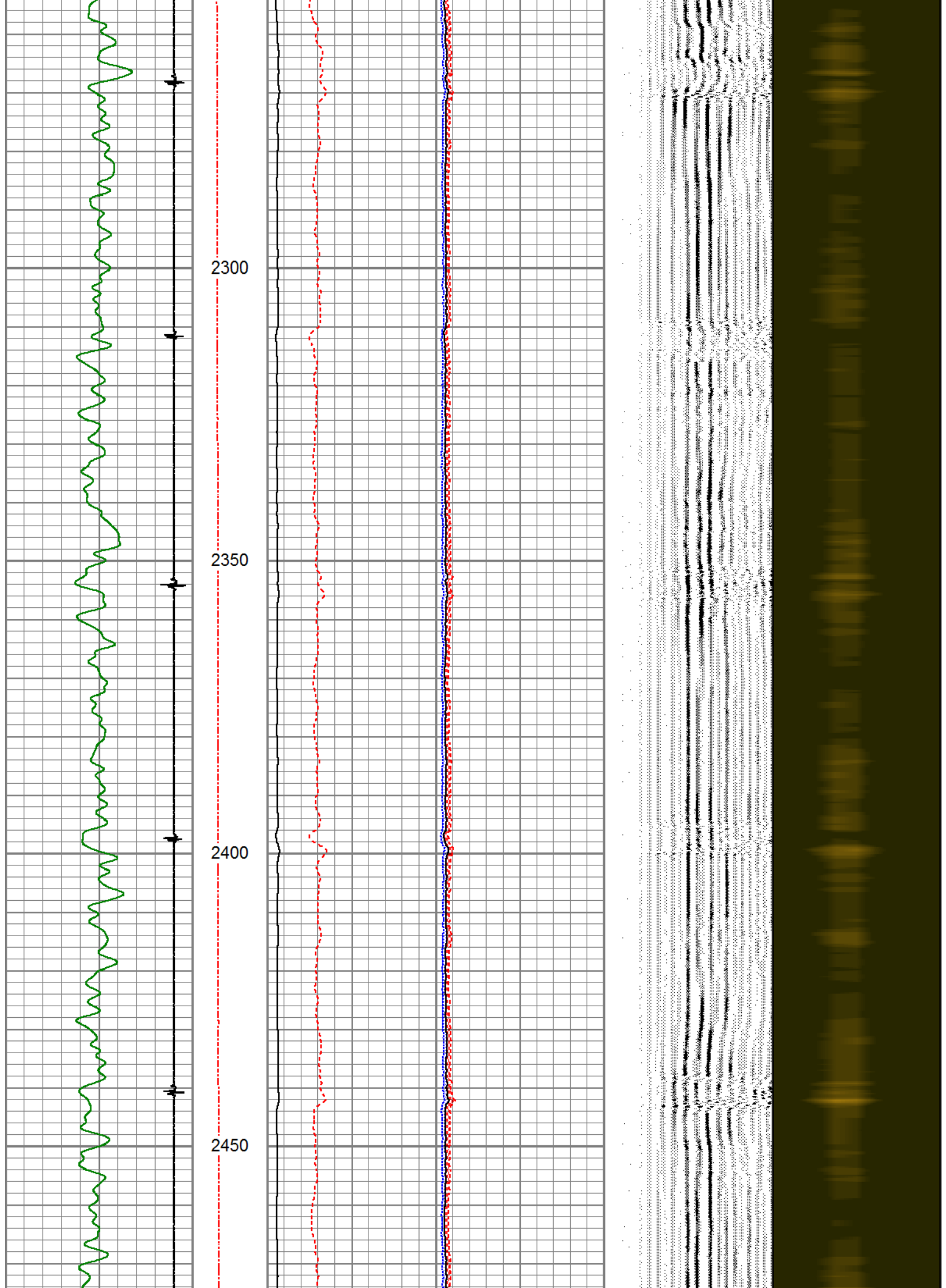
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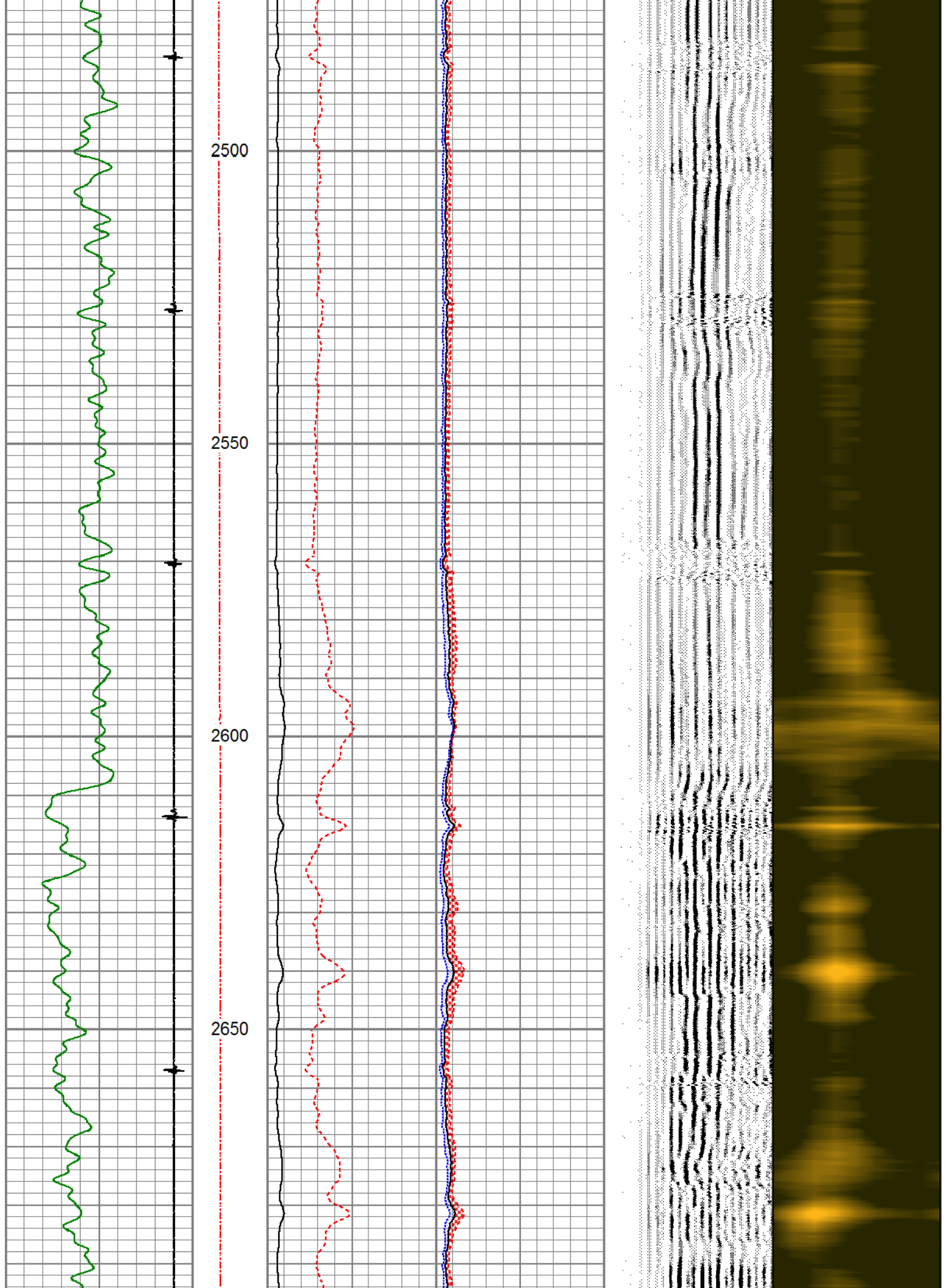


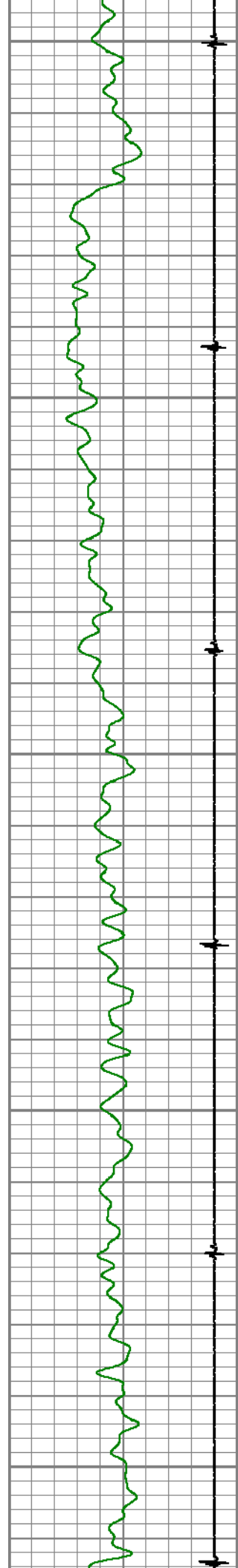












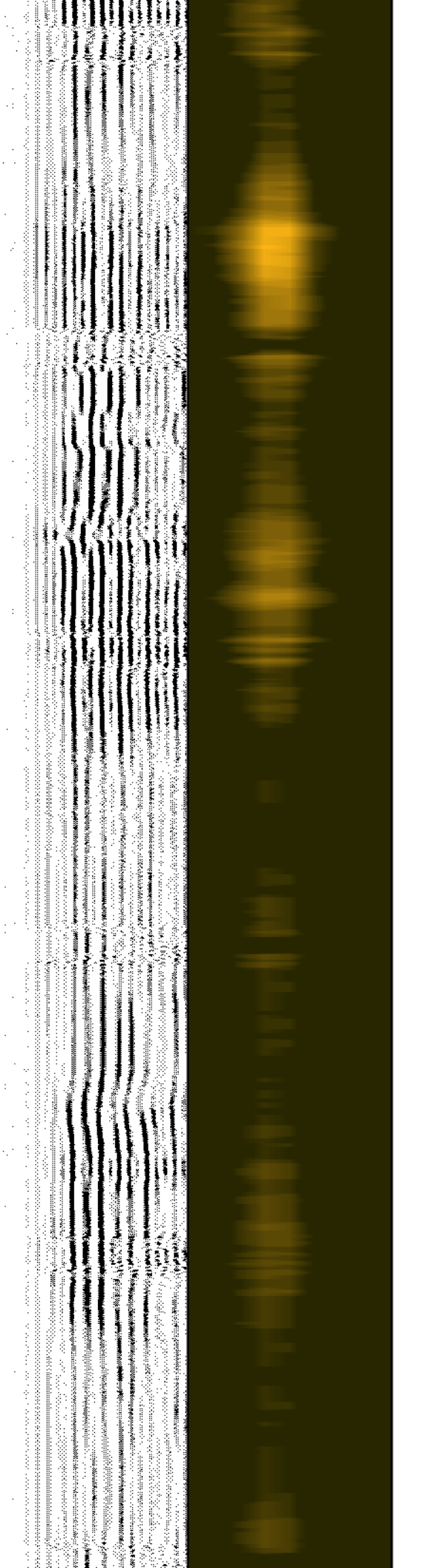
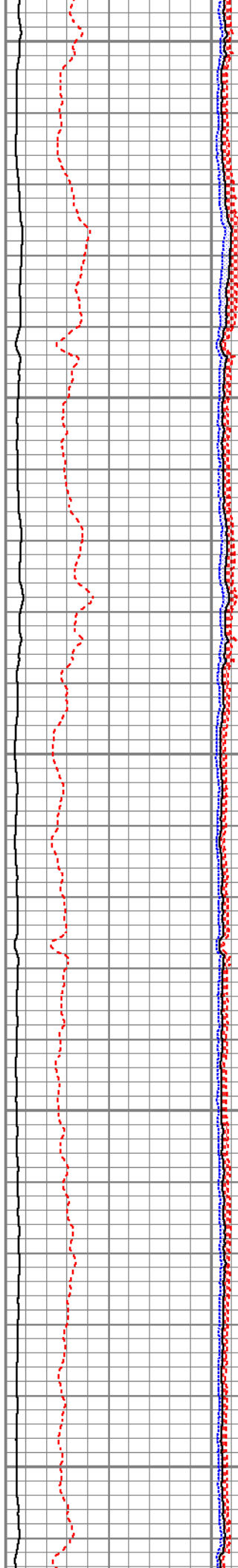
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2750

2800

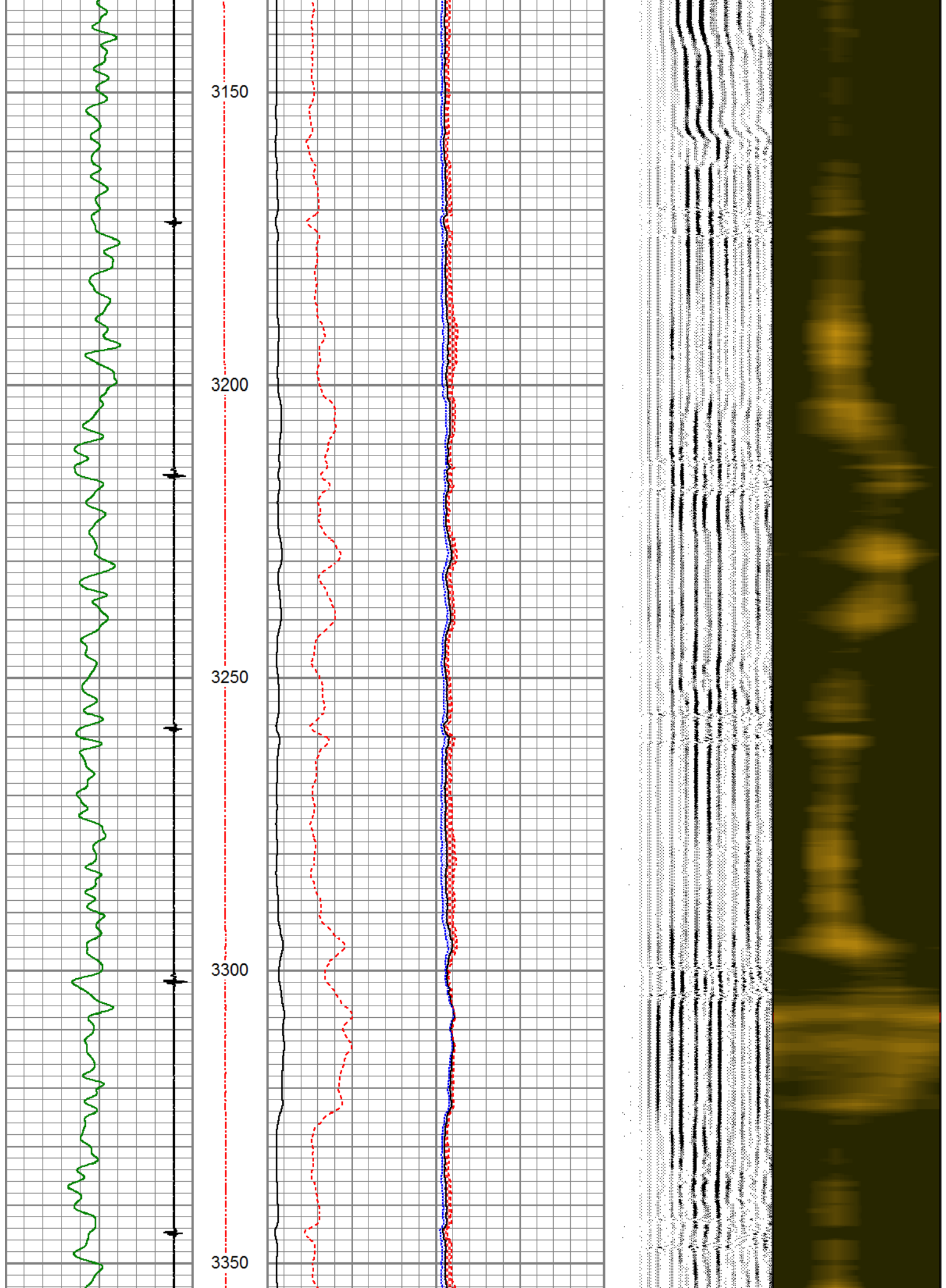
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2900

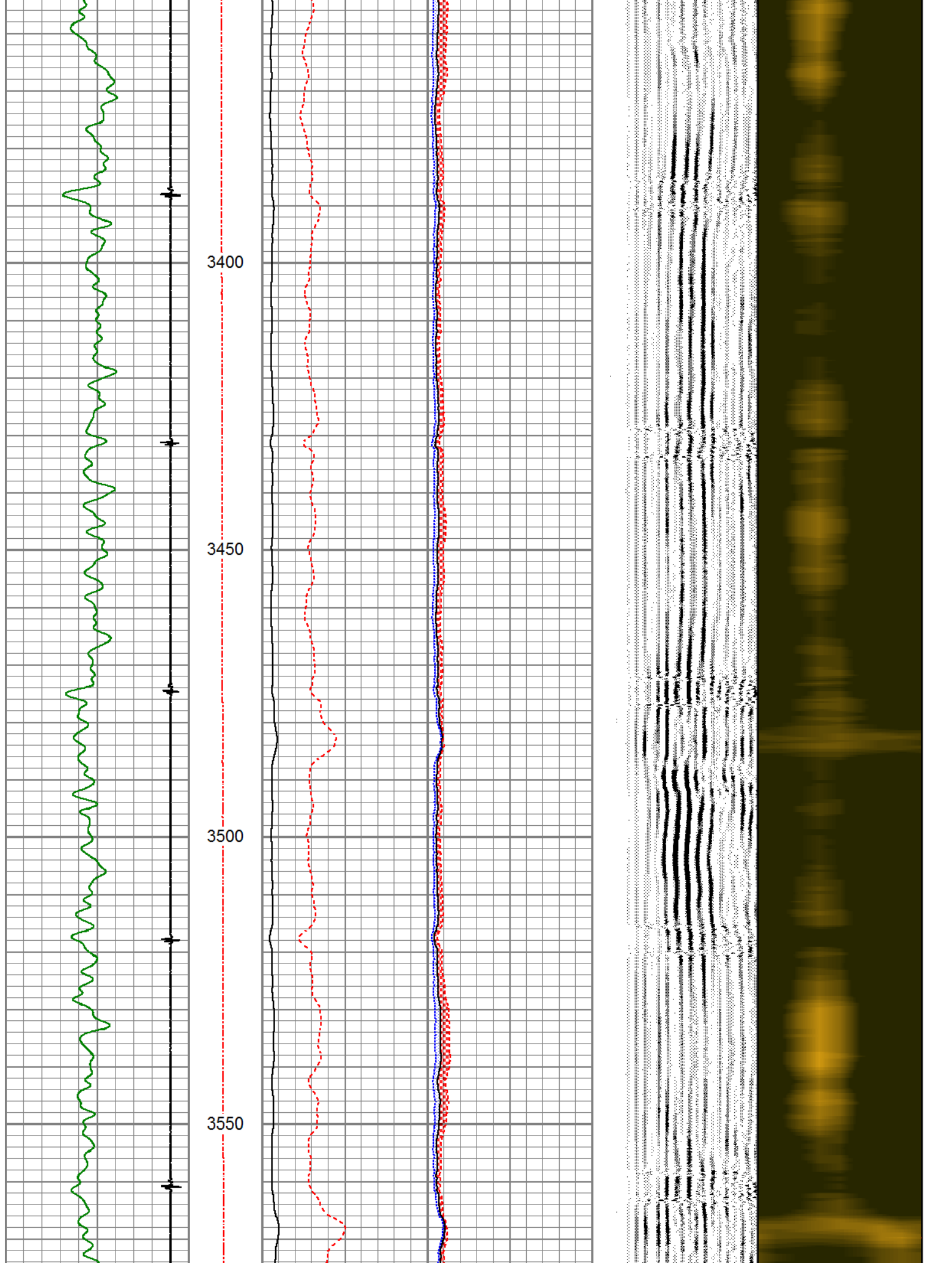


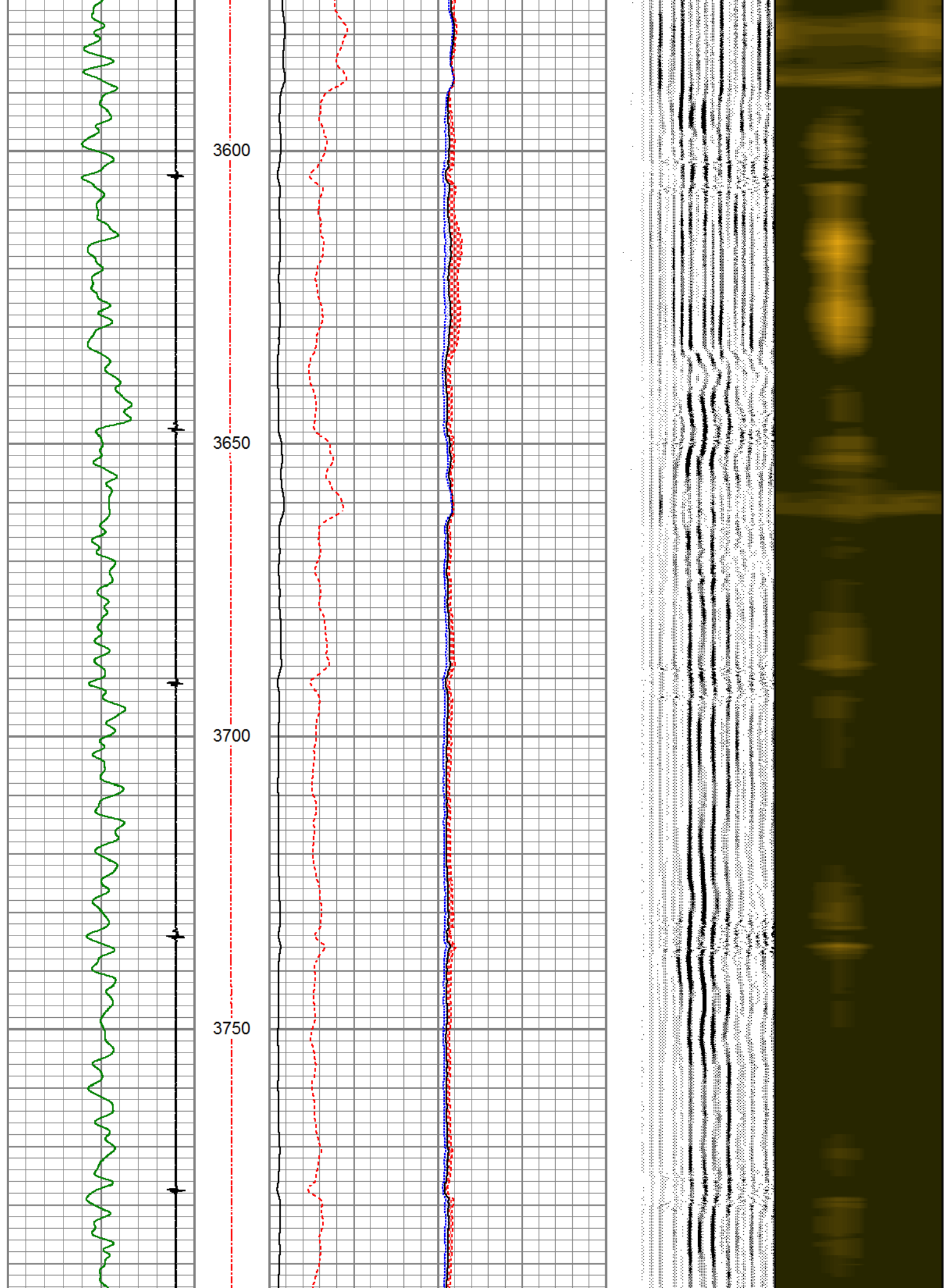


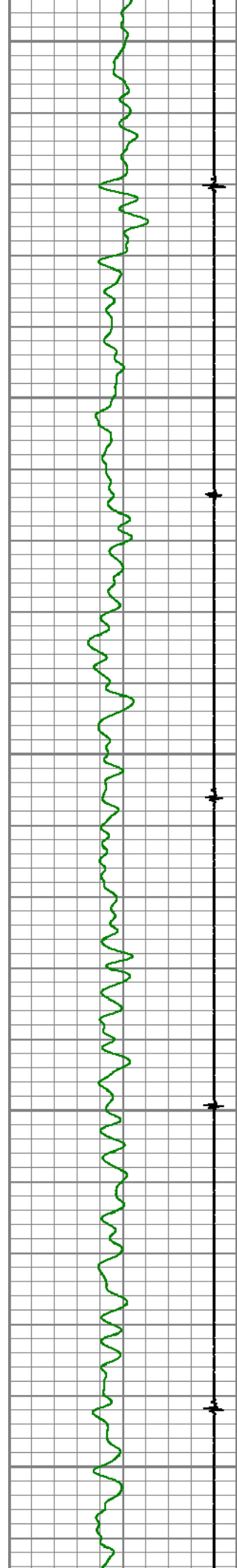












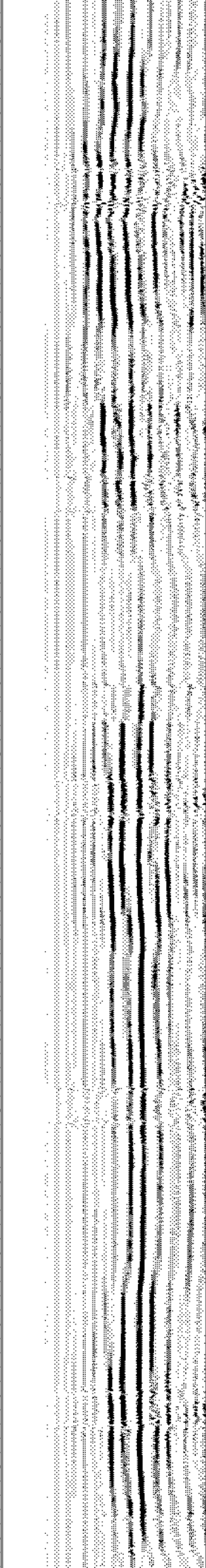
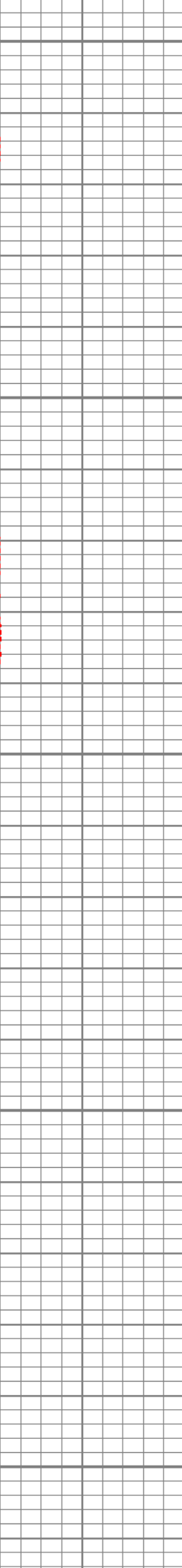
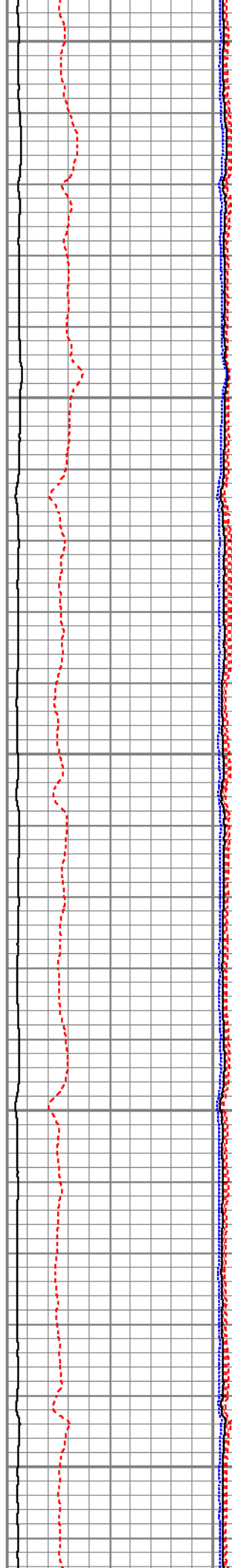
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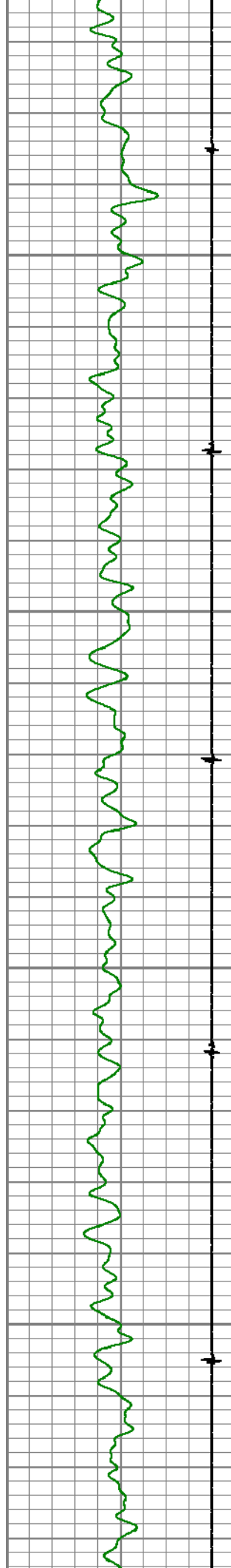
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3950

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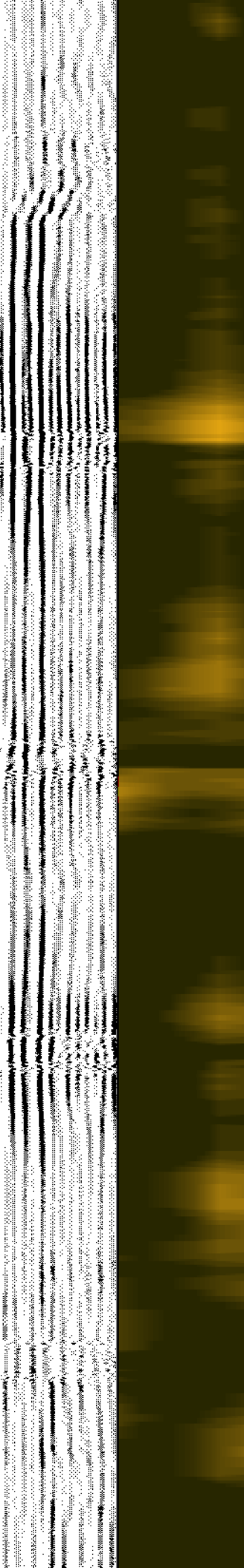
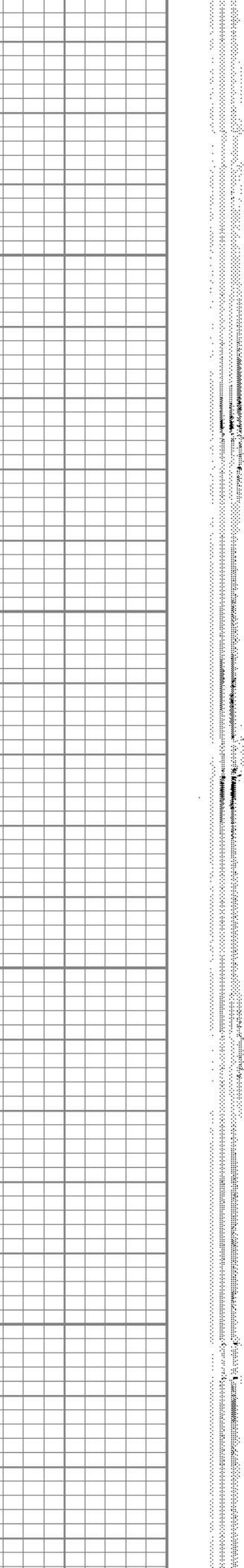
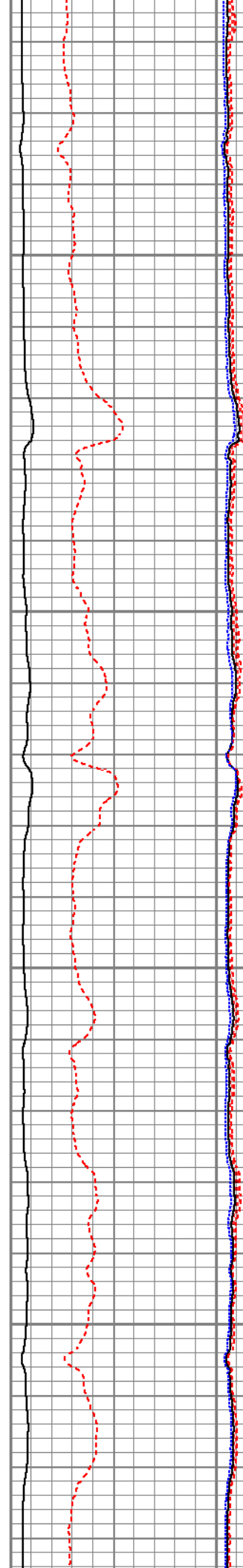


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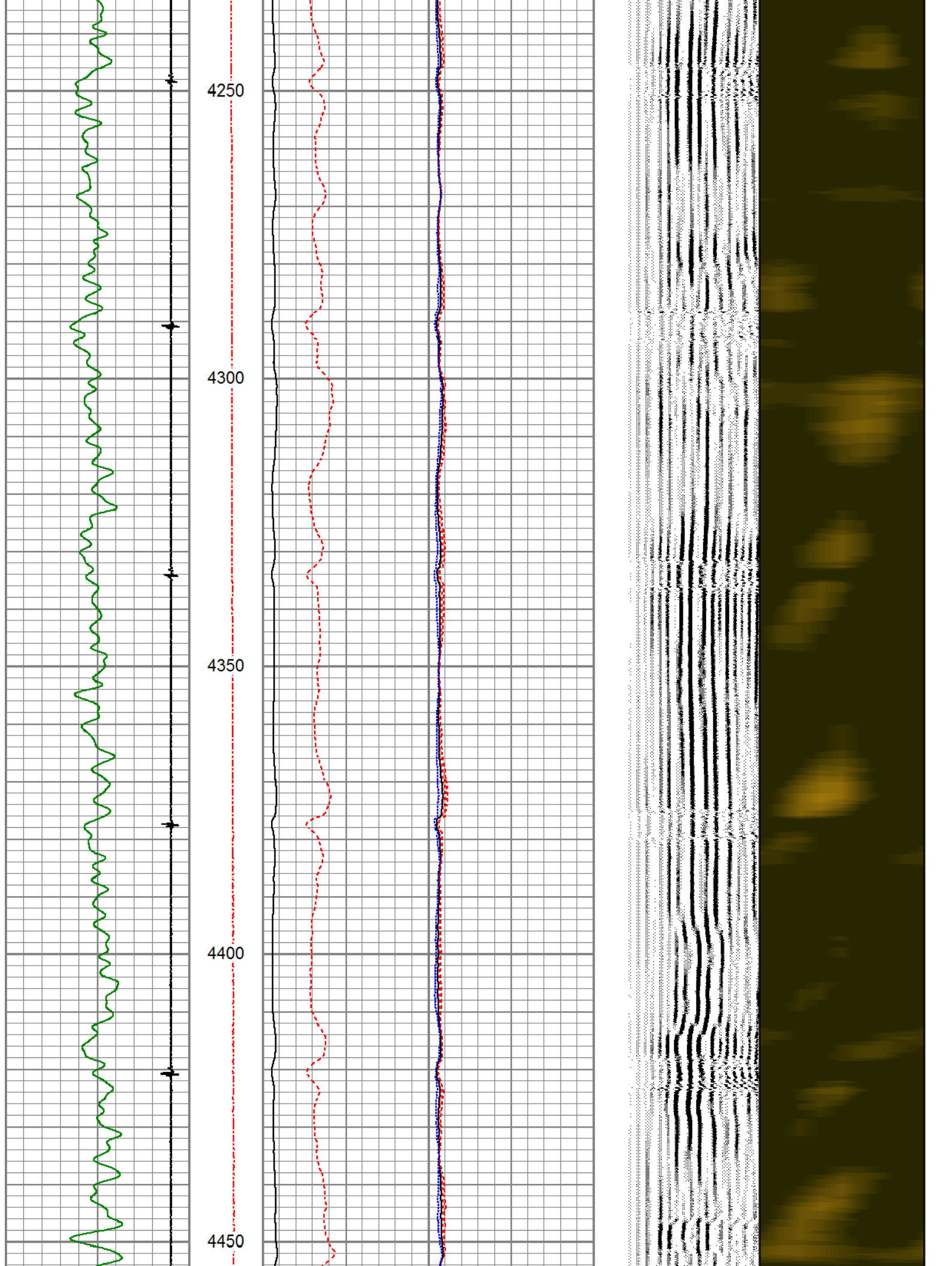
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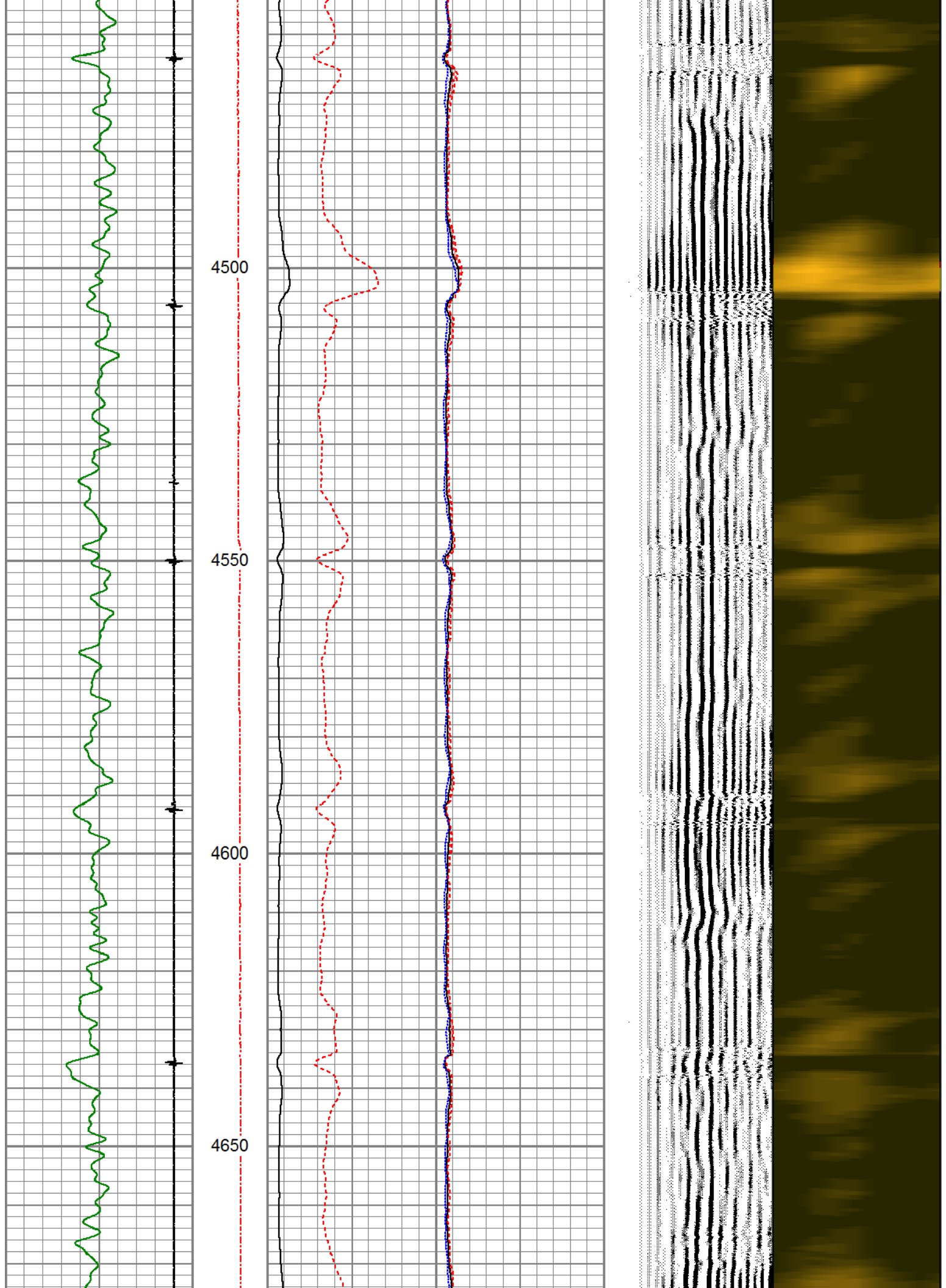
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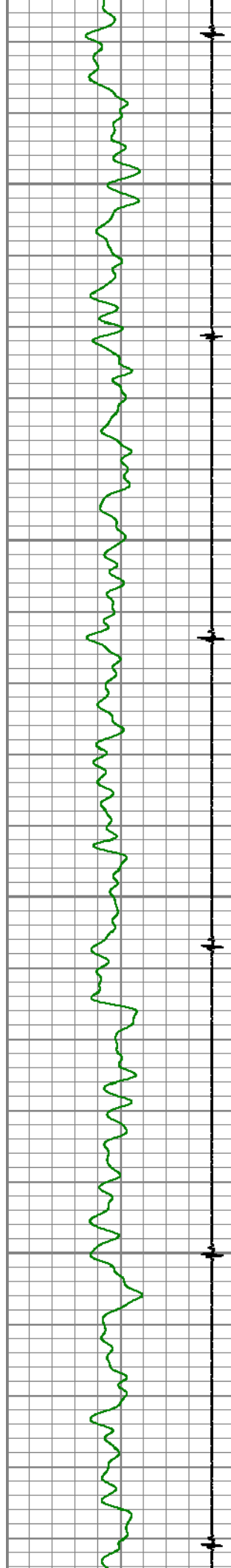










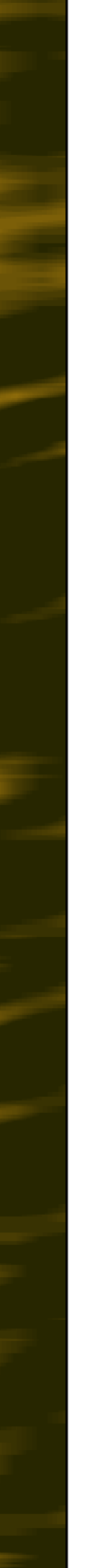
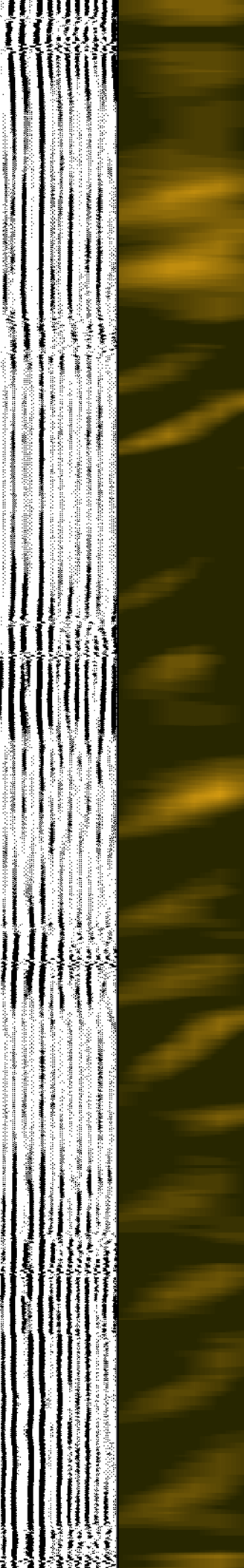
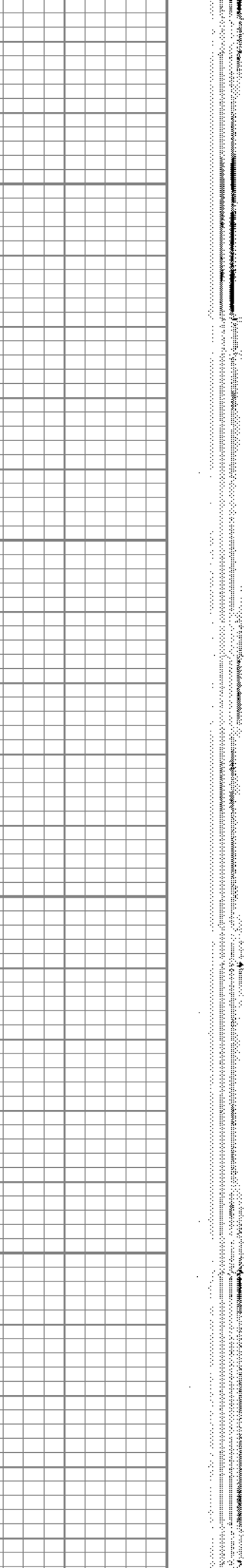
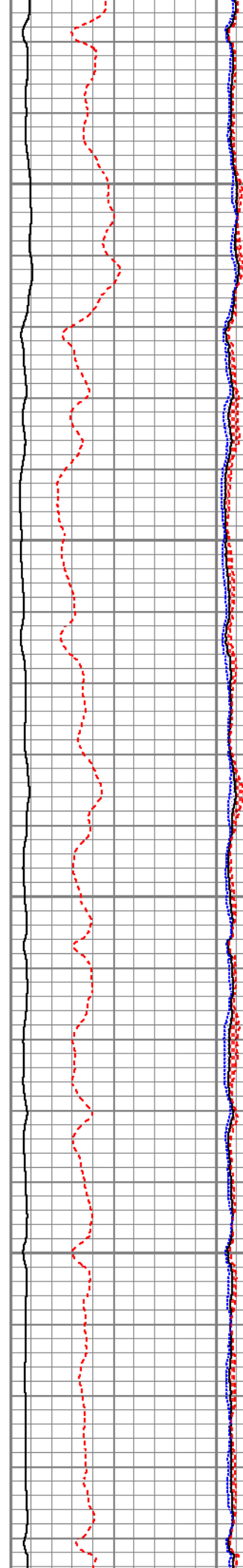


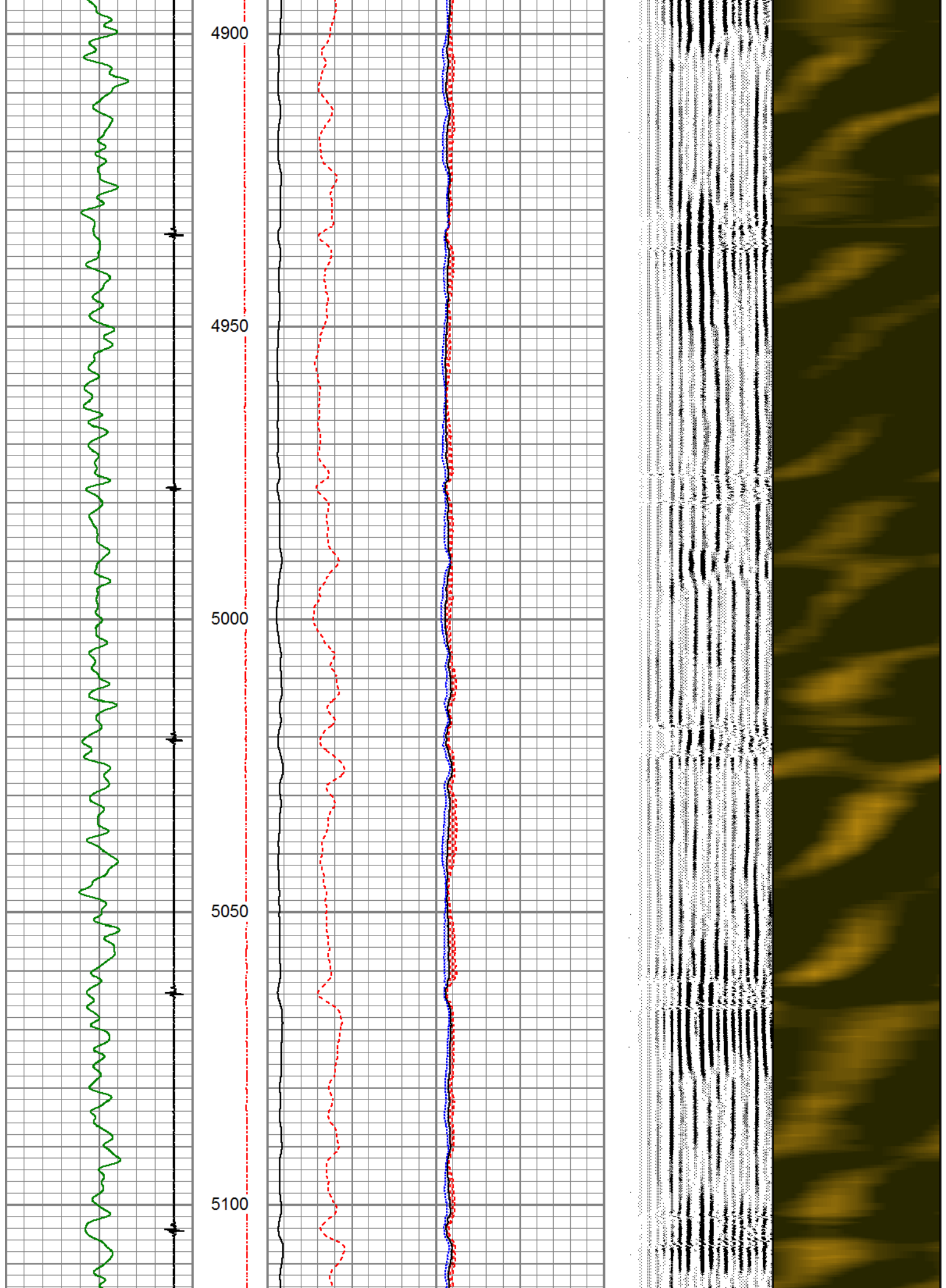
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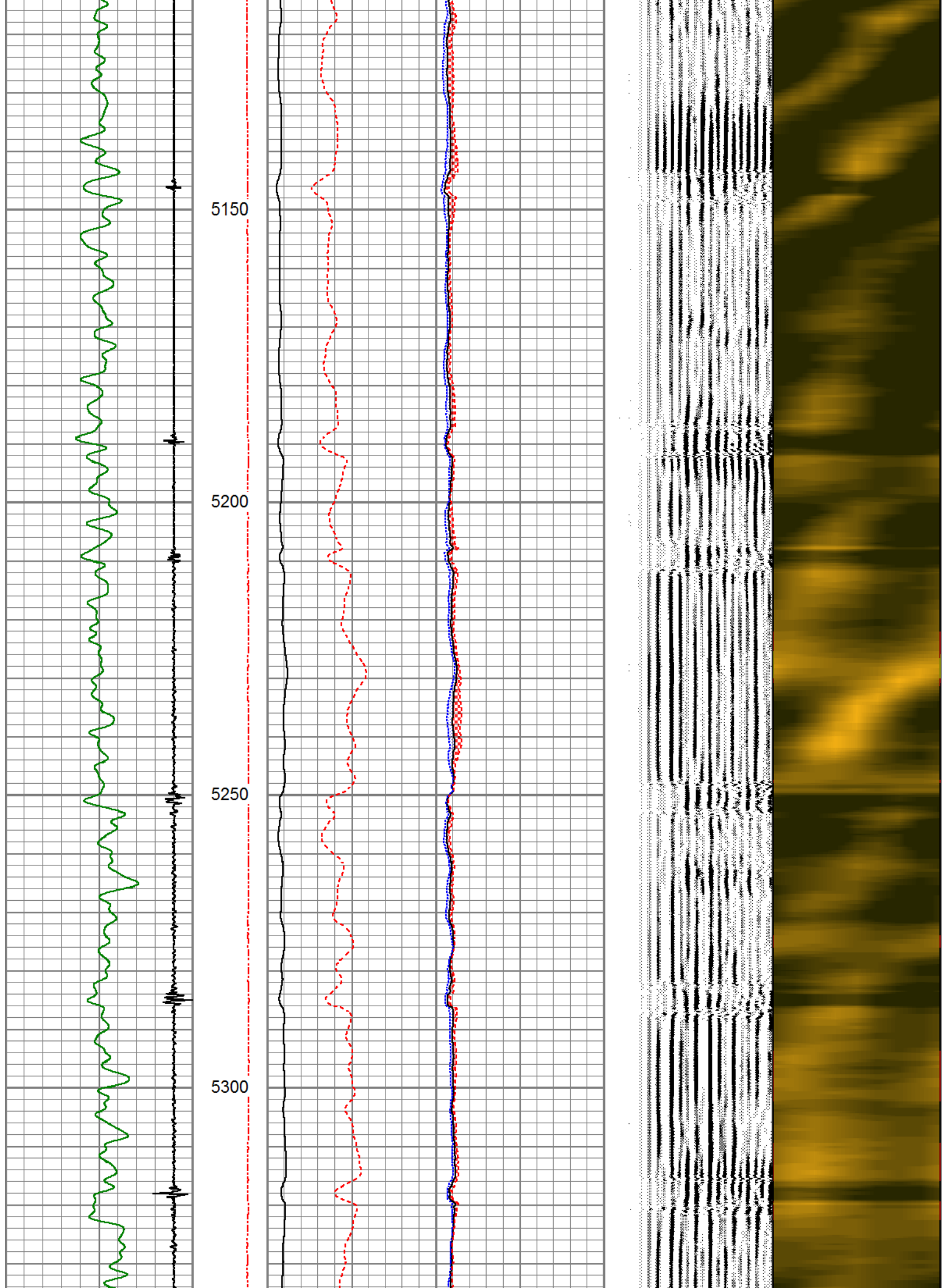
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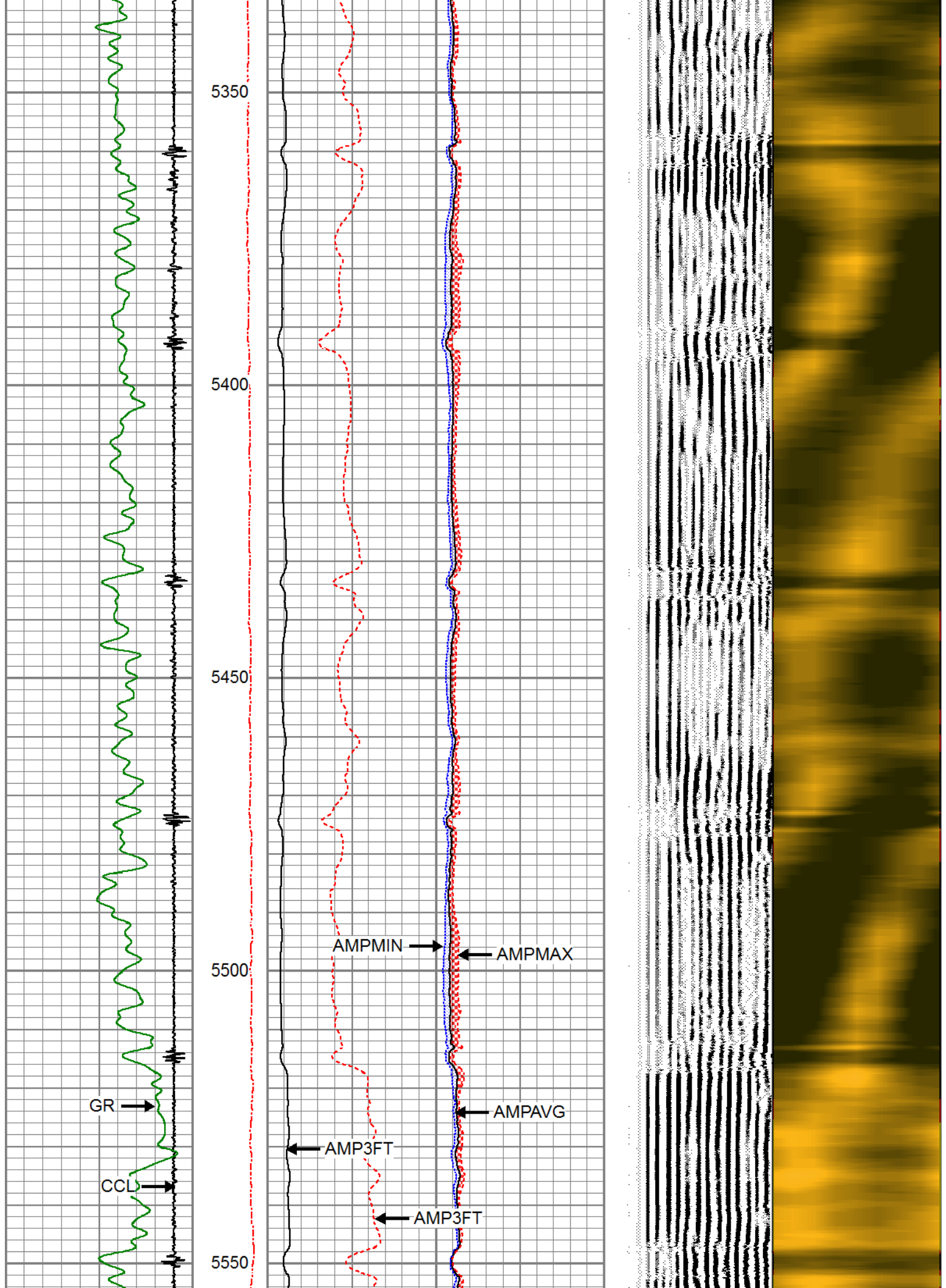
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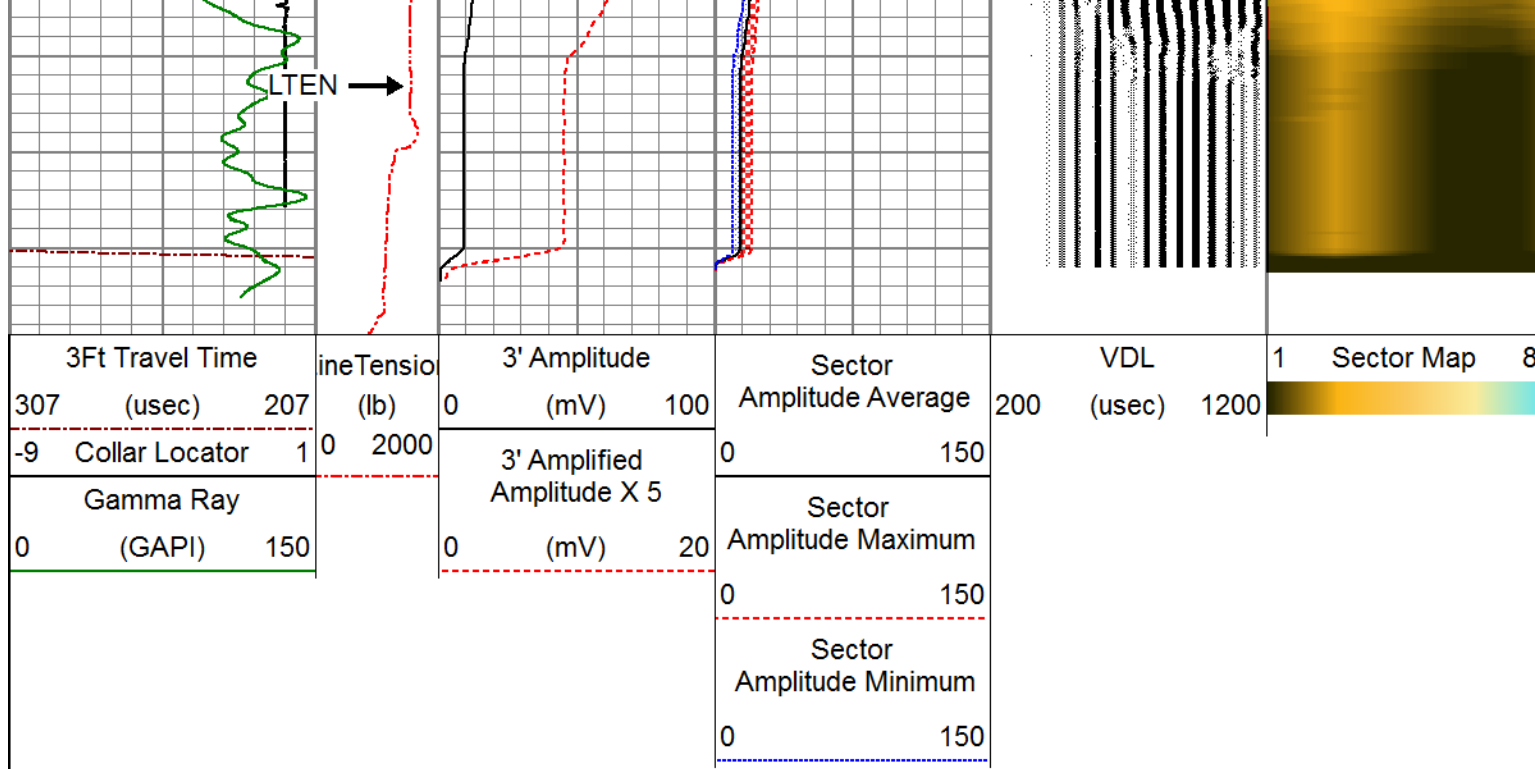













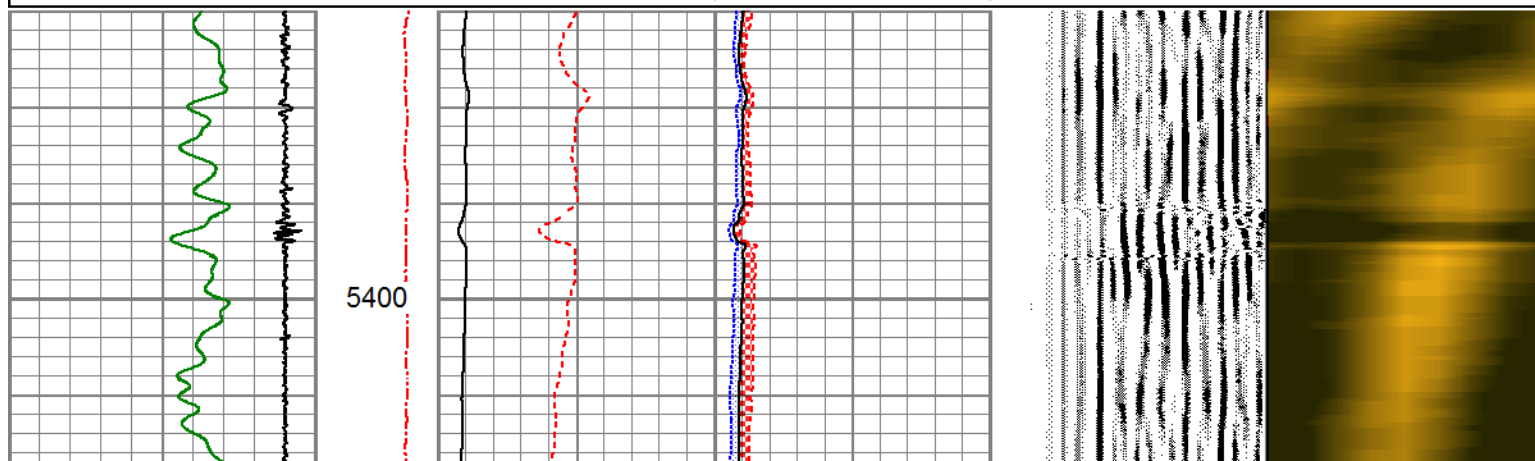
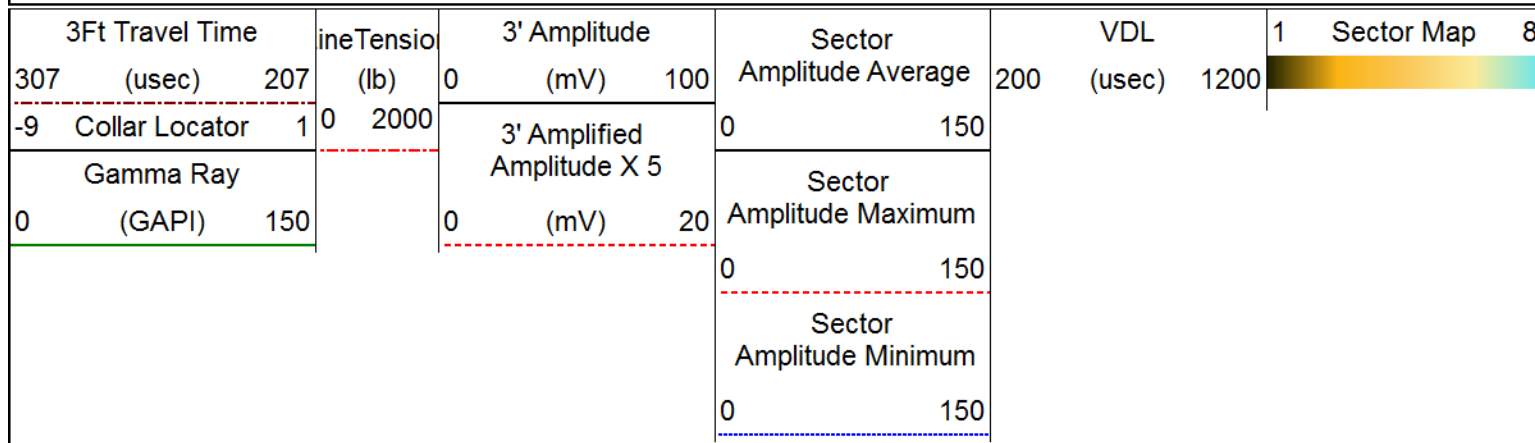


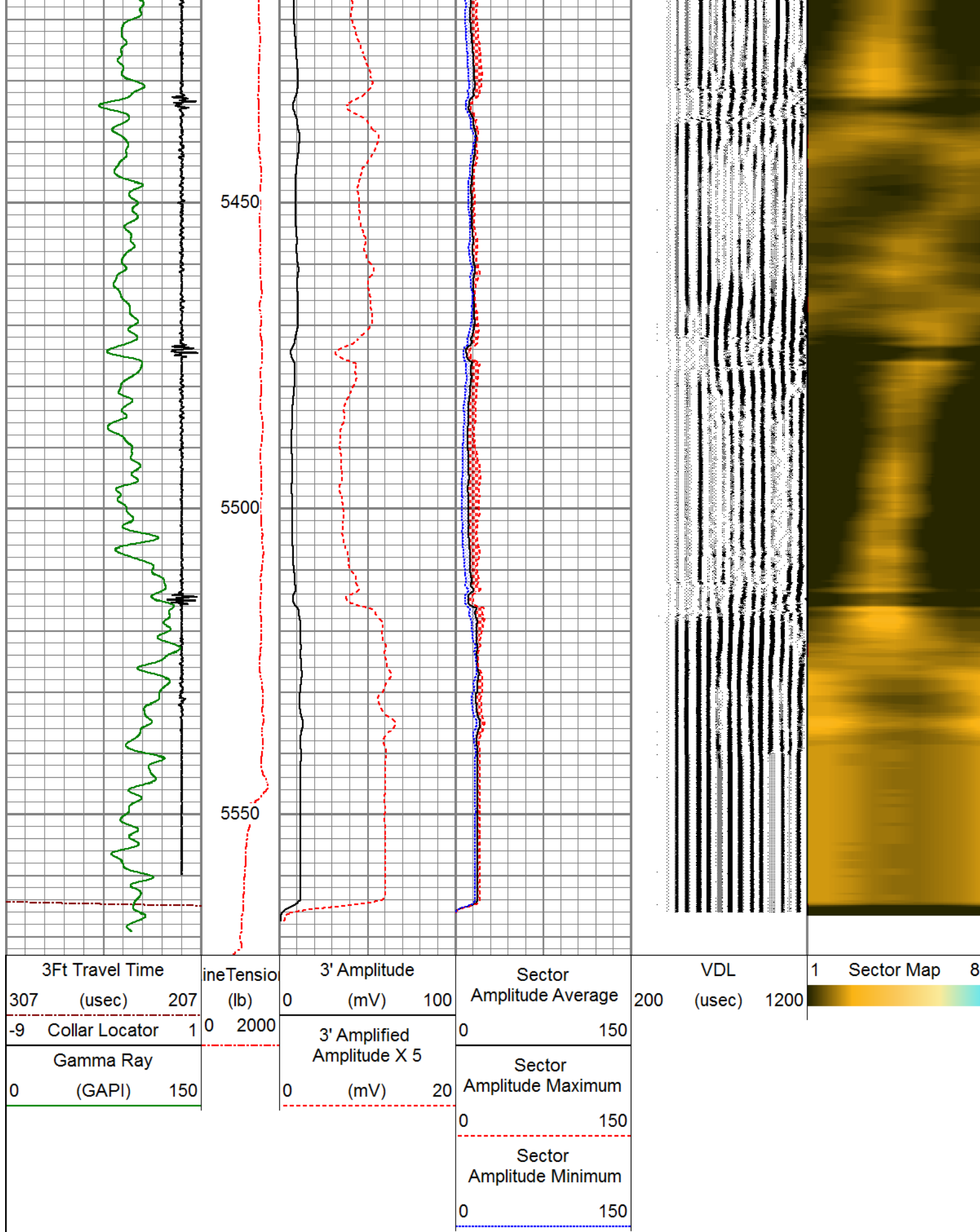
**PIONEER**  
Pioneer Energy Services

## REPEAT SECTION

### ZERO PSI APPLIED AT SURFACE

Database File	magpie_campion 5-6#1-h_0512350139_20190813_scbl.db
Dataset Pathname	pass4
Presentation Format	pinr_scbl
Dataset Creation	Tue Aug 13 10:12:01 2019
Charted by	Depth in Feet scaled 1:240





# Calibration Report

Database File magpie\_campion 5-6#1-h\_0512350139\_20190813\_scbl.db  
 Dataset Pathname pass4

## Gamma Ray Calibration Report

Serial Number: 080629  
 Tool Model: 275 Probe  
 Performed: Thu May 09 20:18:11 2019  
  
 Calibrator Value: 1.0 GAPI  
  
 Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps  
  
 Sensitivity: 0.6900 GAPI/cps

## Segmented Cement Bond Log Calibration Report

Serial Number: FW1304-34-T  
 Tool Model: RBL-DC  
  
 Calibration Casing Diameter: 7.000 in  
 Calibration Depth: 0.000 ft

Master Calibration, performed Tue Aug 13 08:50:16 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	1.529	1.000	62.165	40.303	0.552
CAL	0.012	1.498				
5'	0.004	1.603	1.000	62.165	38.270	0.836
SUM						
S1	-0.003	1.559	0.000	100.000	64.036	0.194
S2	0.006	1.551	0.000	100.000	64.721	-0.368
S3	0.006	1.483	0.000	100.000	67.683	-0.401
S4	0.006	1.505	0.000	100.000	66.715	-0.431
S5	0.008	1.502	0.000	100.000	66.918	-0.506
S6	0.007	1.563	0.000	100.000	64.231	-0.424
S7	0.006	1.570	0.000	100.000	63.932	-0.392
S8	0.005	1.604	0.000	100.000	62.522	-0.287

Air Zero Calibration, performed Tue Aug 13 08:49:29 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



Company MAGPIE OPERATING INC.

Well CAMPION 5-6 #1-H

**PIONEER**

Pioneer Energy Services

Well

Field

County

State

CAMPTON 3-0 #1-11

LOVELAND

WELD

COLORADO