



**CEMENT  
BOND LOG  
WITH GAMMA RAY**

**Company** CASILLAS PETROLEUM CORP.  
**Well** PLEASANT PRAIRE UNIT #97  
**Field** PLEASANT PRAIRE  
**County** FINNEY  
**State** Kansas

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**Location:** 525' FSL & 1918' FWL  
 SEC 33 TWP 26S RGE 34W  
**API #:** 15-055-22378-00-00  
**Other Services** Perforate

**Permanent Datum** Ground Level  
**Log Measured From** Kelly Bushing 9'  
**Drilling Measured From** Kelly Bushing  
**Elevation** 2957'  
**K.B.** 2966'  
**D.F.** N/A  
**G.L.** 2957'

<b>Date of Service</b>	03-04-2015
<b>Run Number</b>	One
<b>Depth Driller or PBTD</b>	5290'
<b>Depth Logger</b>	5232'
<b>Bottom Log Interval</b>	5229'
<b>Top Log Interval</b>	2020'
<b>Open Hole Size</b>	7.875"
<b>Type Fluid</b>	Water
<b>Fluid Level</b>	2000'
<b>Fluid Density</b>	8.3
<b>Max. Recorded Temperature</b>	122 DEG F
<b>Max. Wellhead Pressure</b>	0 PSI
<b>Wellhead Connection</b>	BOP
<b>Estimated Cement Top</b>	2274'
<b>Unit Number</b>	P65
<b>Wireline Size</b>	.288
<b>Location</b>	LIBERAL,KS.
<b>Recorded By</b>	K.COLEMAN
<b>Witnessed By</b>	MR. PENDERGRAFT

	Size	Wt/Ft	Top	Bottom
<b>Tubing Record</b>				
<b>Surface Casing</b>	8.625"	24#	SURFACE	1653'
<b>Production Casing</b>	5.5	15.5	Surface	5290'
<b>Liner Record</b>				

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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 RECON NEUTRON LOG DATED  
CORRECTED +9.5'  
MARKER JOINT @ 5008 - 5038'**

**THANK YOU FOR USING PIONEER ENERGY SERVICES  
YOUR CREW FOR TODAY: K.COLEMAN, M.PAGE, & D.LANIER  
QUESTIONS AND/OR COMMENTS PLEASE CALL 1-620-626-4466.  
THANK YOU FOR USING PIONEER ENERGY SERVICES**

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
<b>Engineer:</b> K.COLEMAN	<b>RBT-PROBE</b>	<b>120507</b>
<b>Operator:</b> M.PAGE	<b>GR-PROBE</b>	<b>275</b>
<b>Operator:</b> D.LANIER		
<b>Operator:</b>		

Sensor	Onset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
			CHD-Titan 1 7/16" Titan Cable Head	1.00	1.44	2.00	
			CENT-Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00	
			RBT-Probe (120507) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00	
WWFS8	11.40						
WWFS7	11.40						
WWFS6	11.40						
WWFS5	11.40						
WWFS4	11.40						
WWFS3	11.40						
WWFS2	11.40						
WWFS1	11.40						
WWFCAL	11.40						
WVF3FT	11.40						
WVF5FT	10.40						
CCL	6.51						
			GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00	
GR	3.77						
			CENT-Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00	

Dataset: ppu 97cbl.db: field/well/run1/pass1.7  
 Total length: 19.83 ft  
 Total weight: 152.00 lb  
 O.D.: 2.75 in

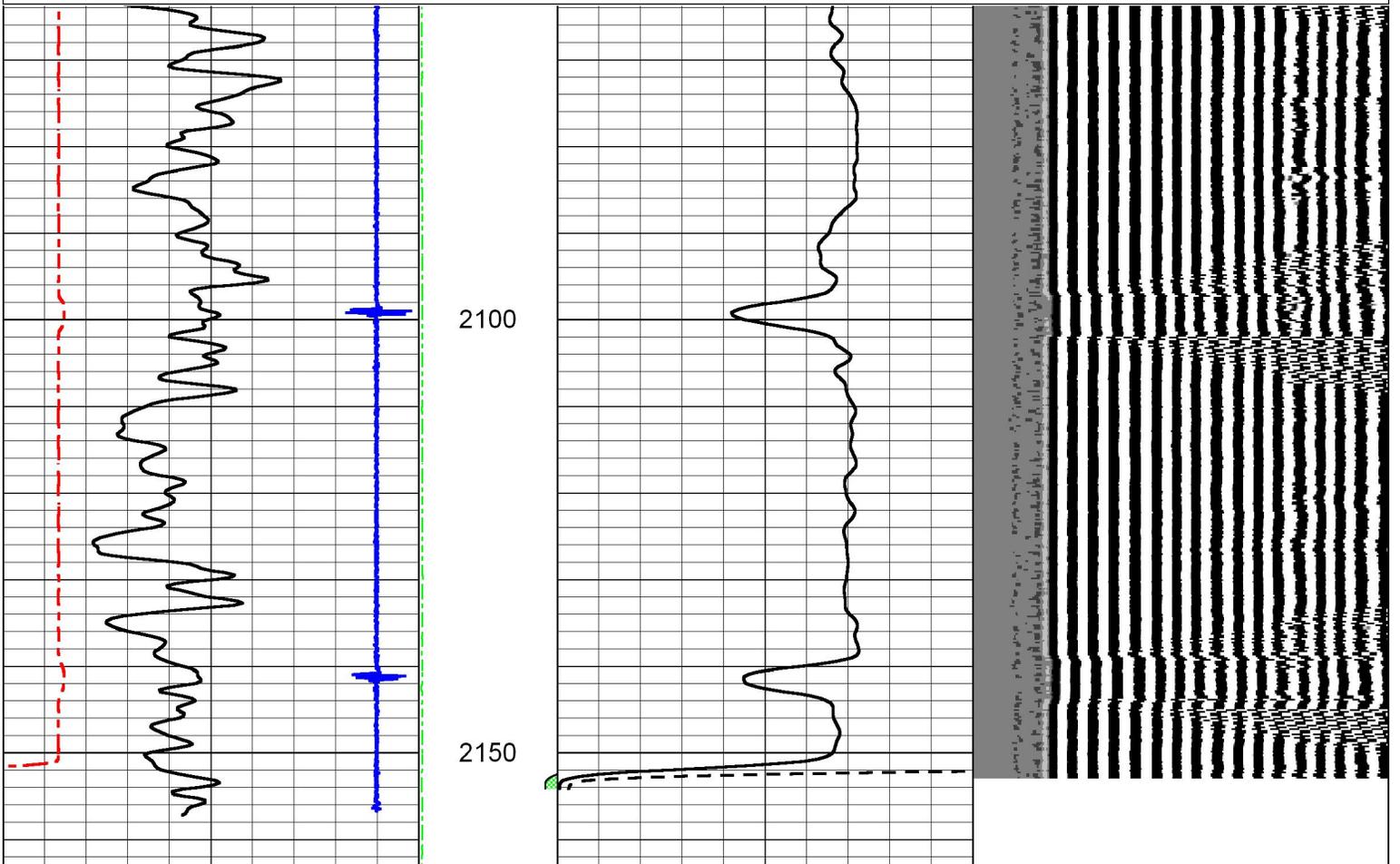


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# FREE PIPE SECTION

Database File ppu 97cbl.db  
 Dataset Pathname pass1.4  
 Presentation Format cbltrk  
 Dataset Creation Wed Mar 04 09:47:28 2015  
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	amp3ft	0	Pipe Amplitude (mV)	100	200	MSG	1200
9	Casing Collars	-1	(mV)	0	Amplified Amplitude (mV)	20			
200	TT3FT1 (usec)	700	-100 10	-----					
			LTEN (lb)						
			0 3000	-----					



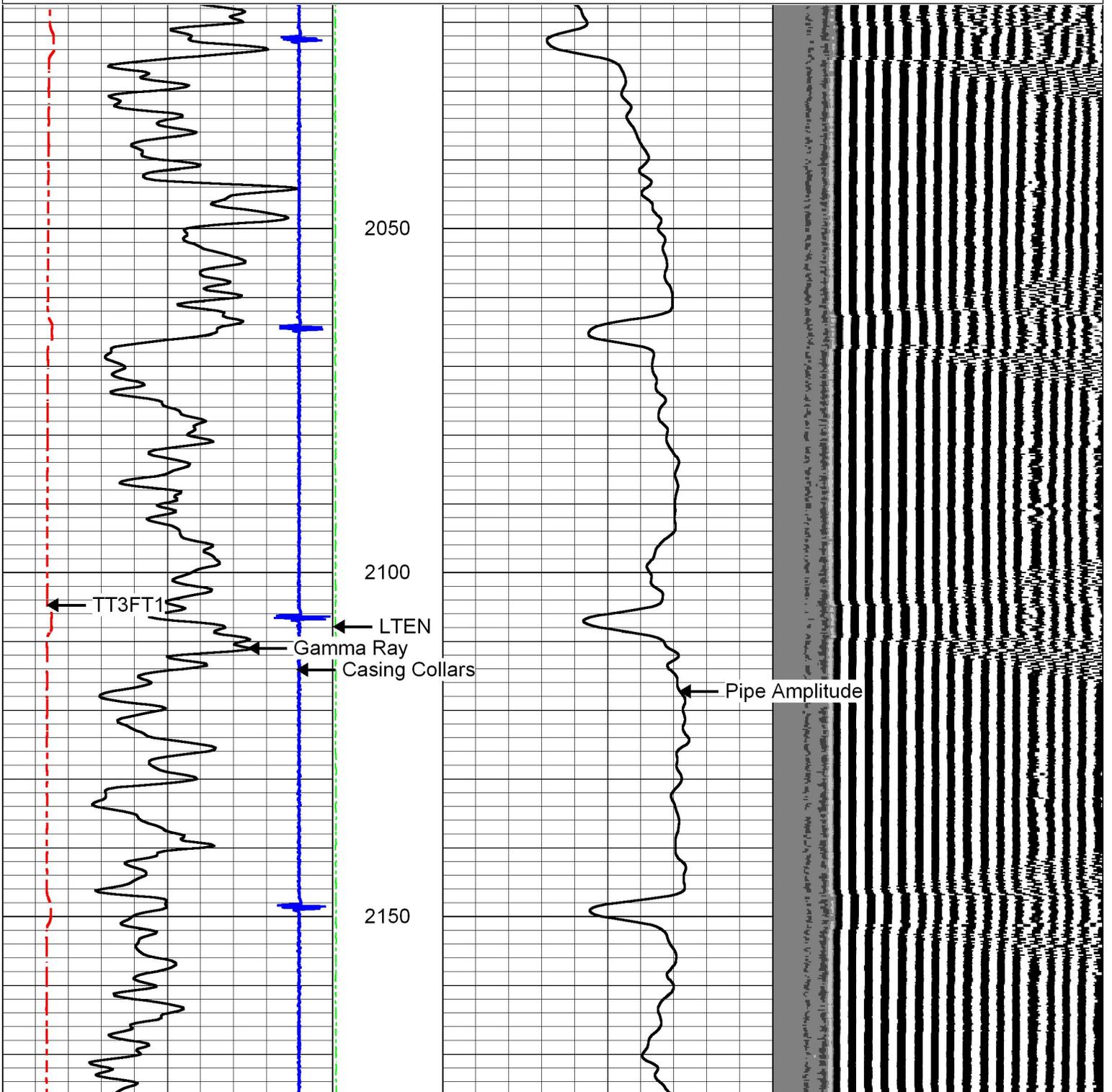
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9	Casing Collars	-1	(mV)	0	Amplified Amplitude (mV)	20			
200	TT3FT1 (usec)	700	-100 10	-----					
			LTEN (lb)						
			0 3000	-----					

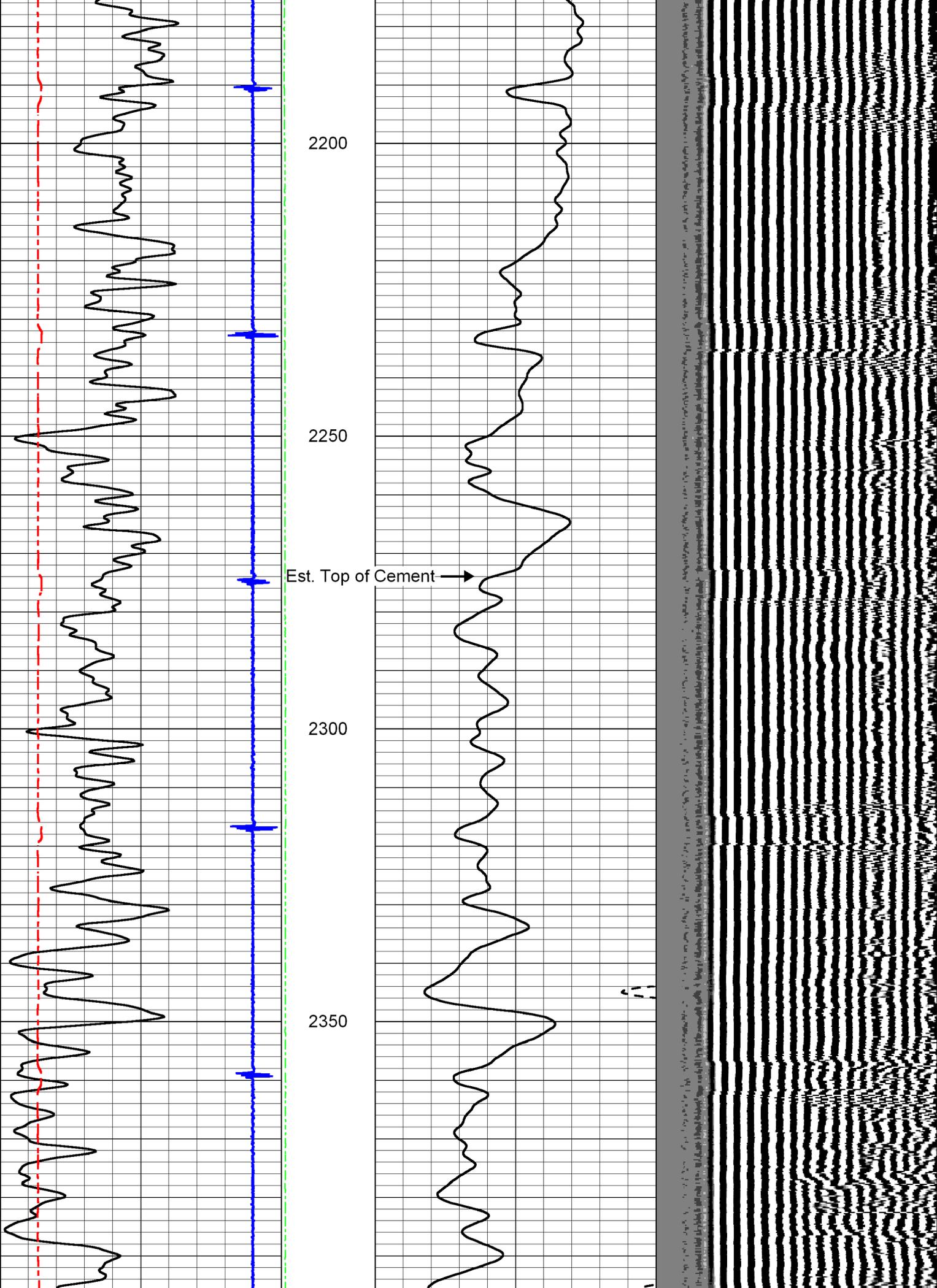


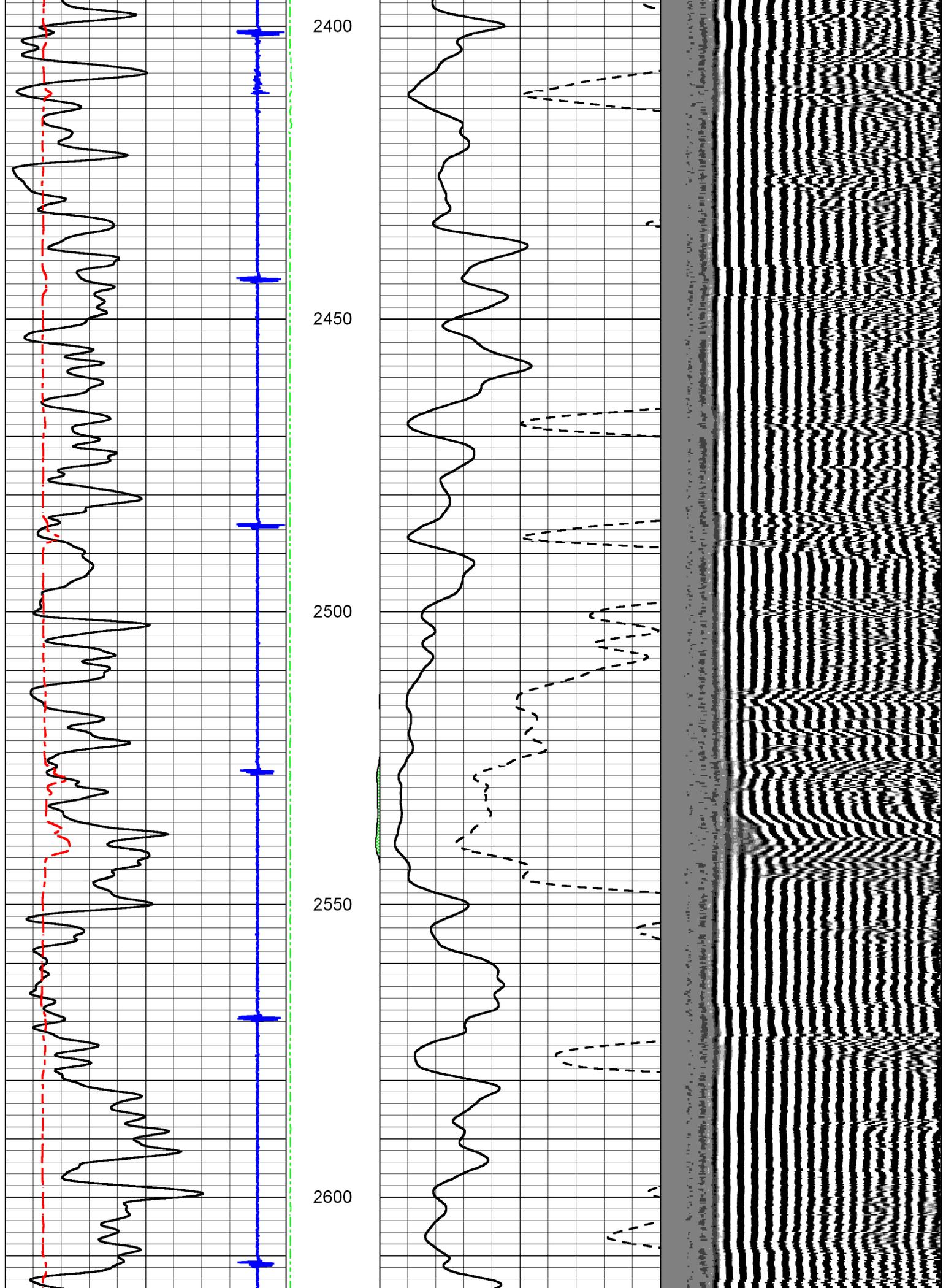
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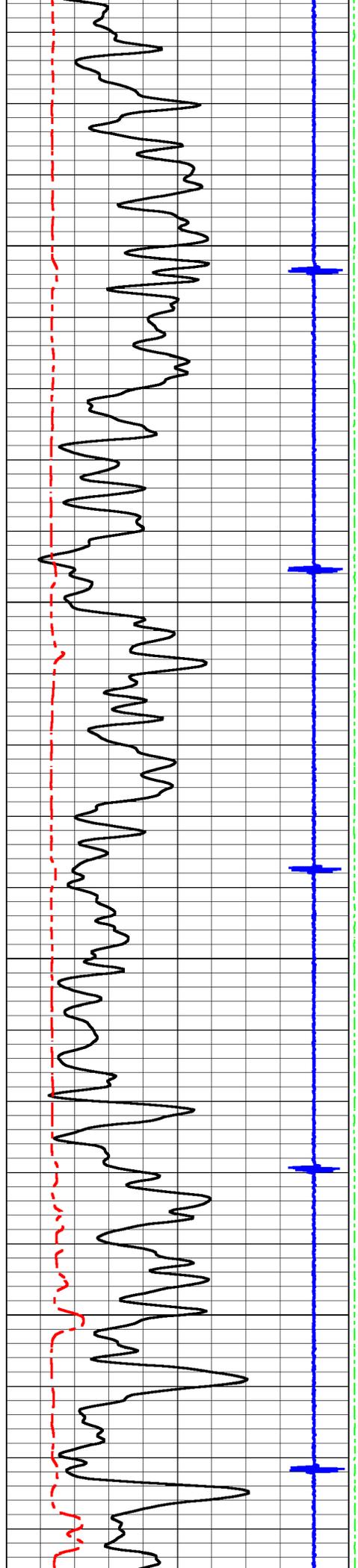
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Dataset Pathname pass1.7  
Presentation Format cbldrkc  
Dataset Creation Wed Mar 04 10:13:15 2015  
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	amp3ft	0	Pipe Amplitude (mV)	100	200	MSG	1200
9	Casing Collars	-1	(mV)	0	Amplified Amplitude (mV)	20			
200	TT3FT1 (usec)	700	-100 10	-----					
			LTEN (lb)						
			0 3000						







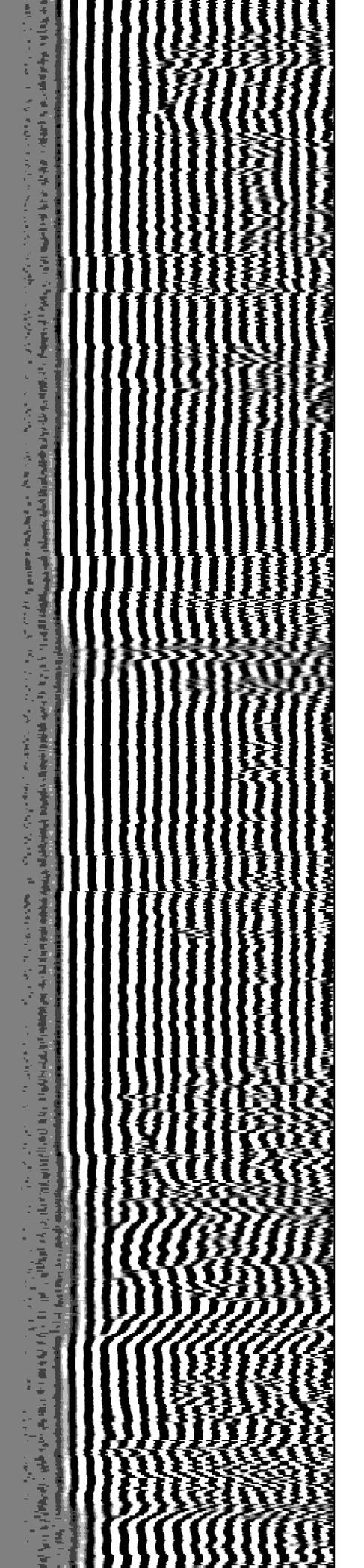
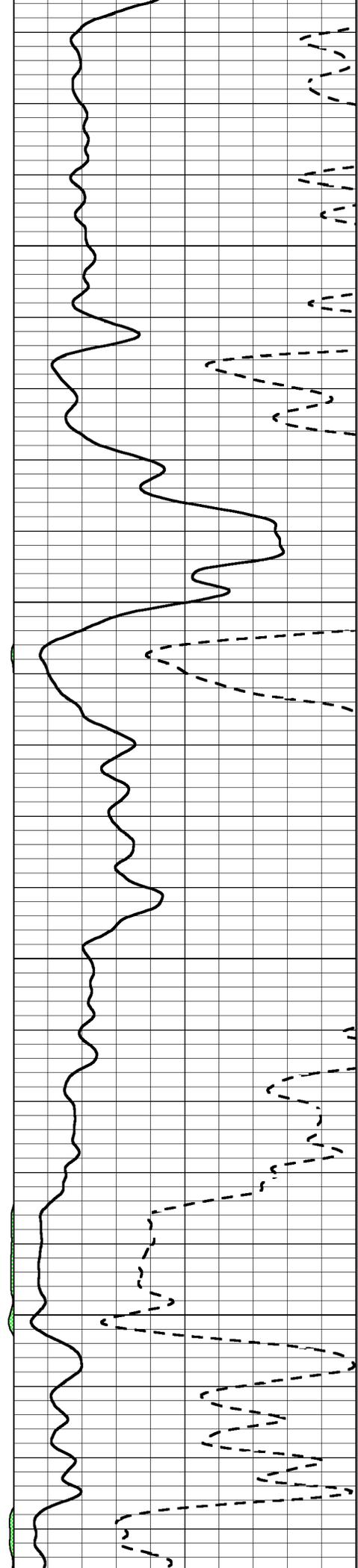


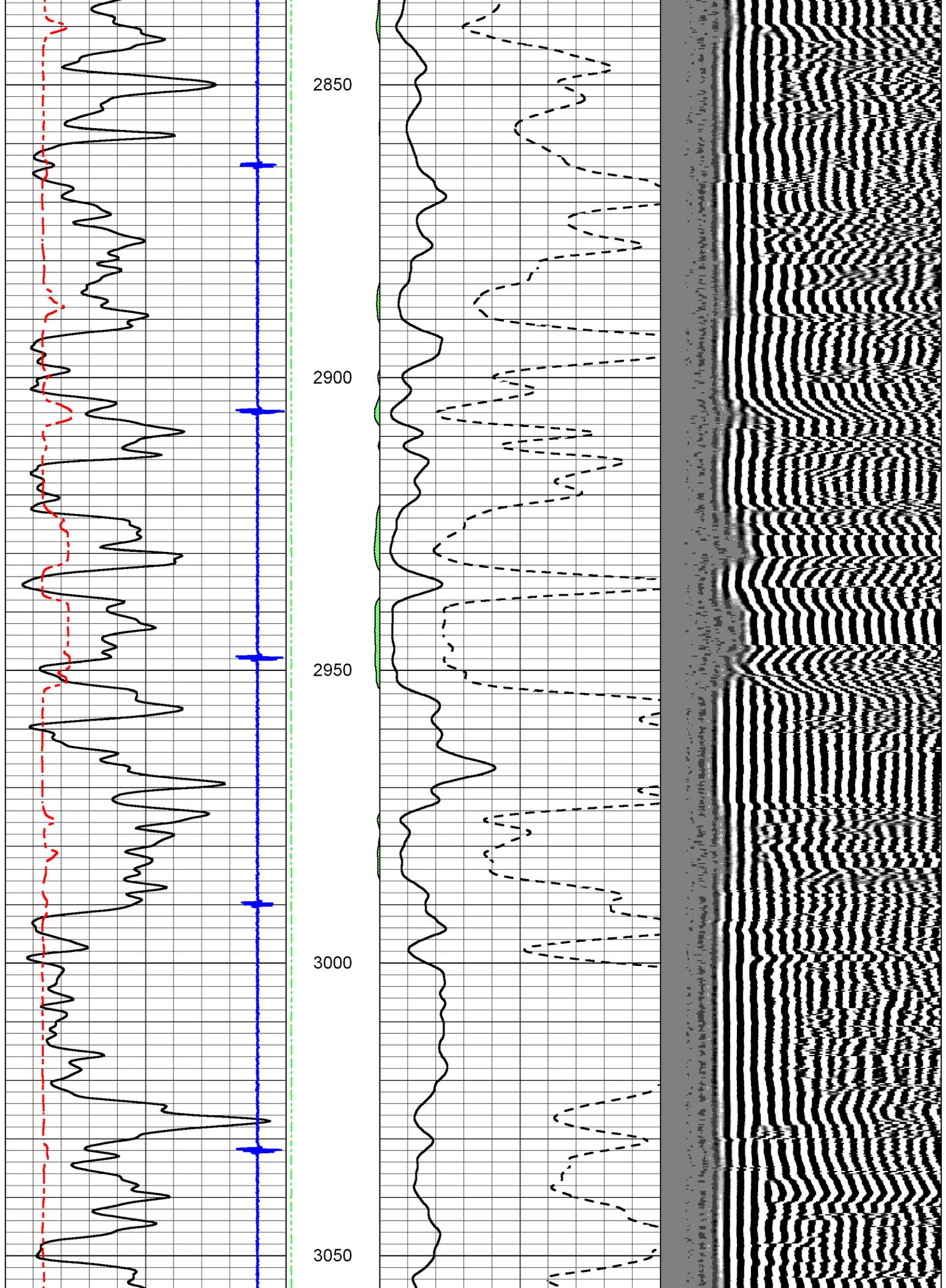
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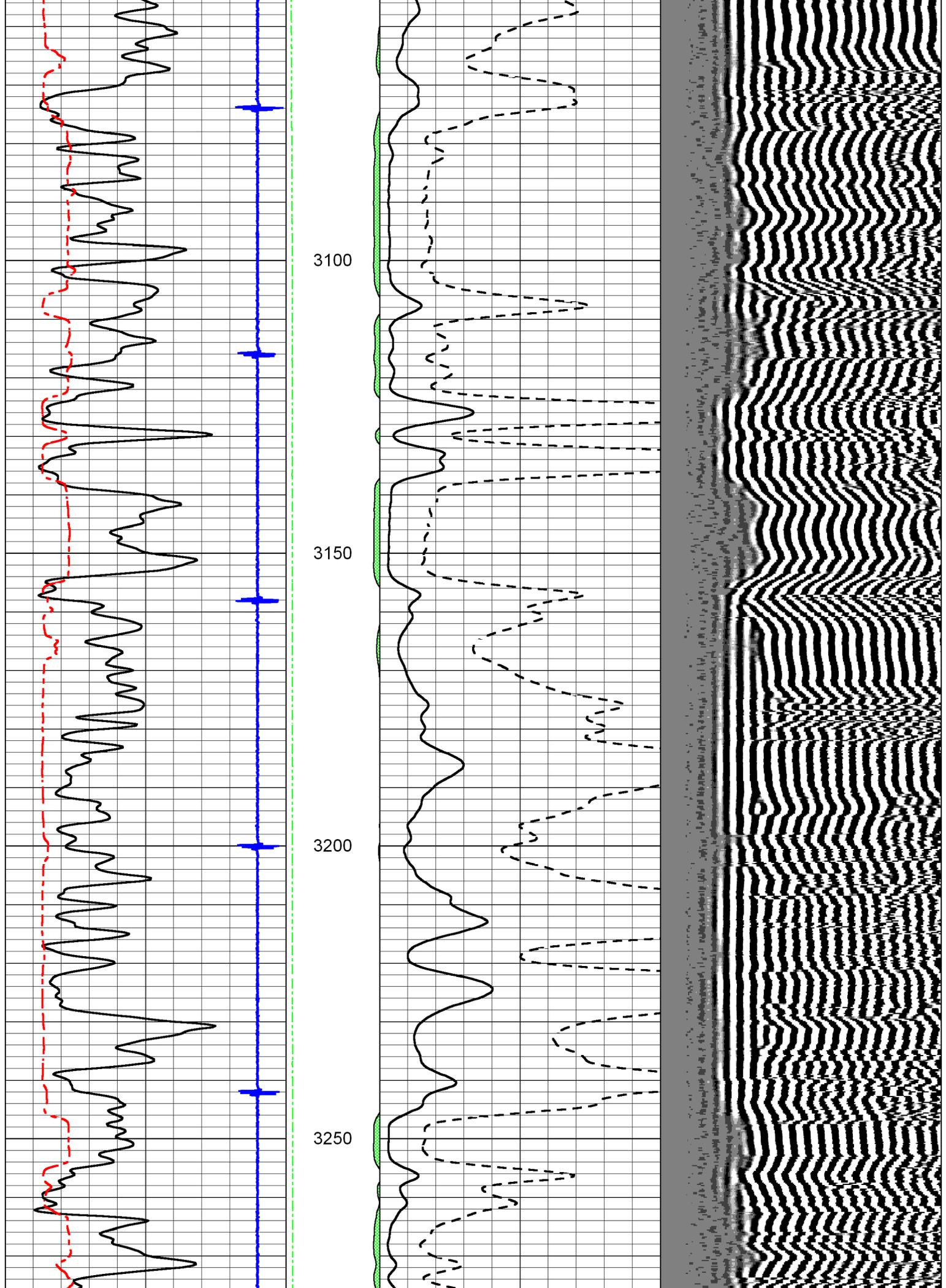
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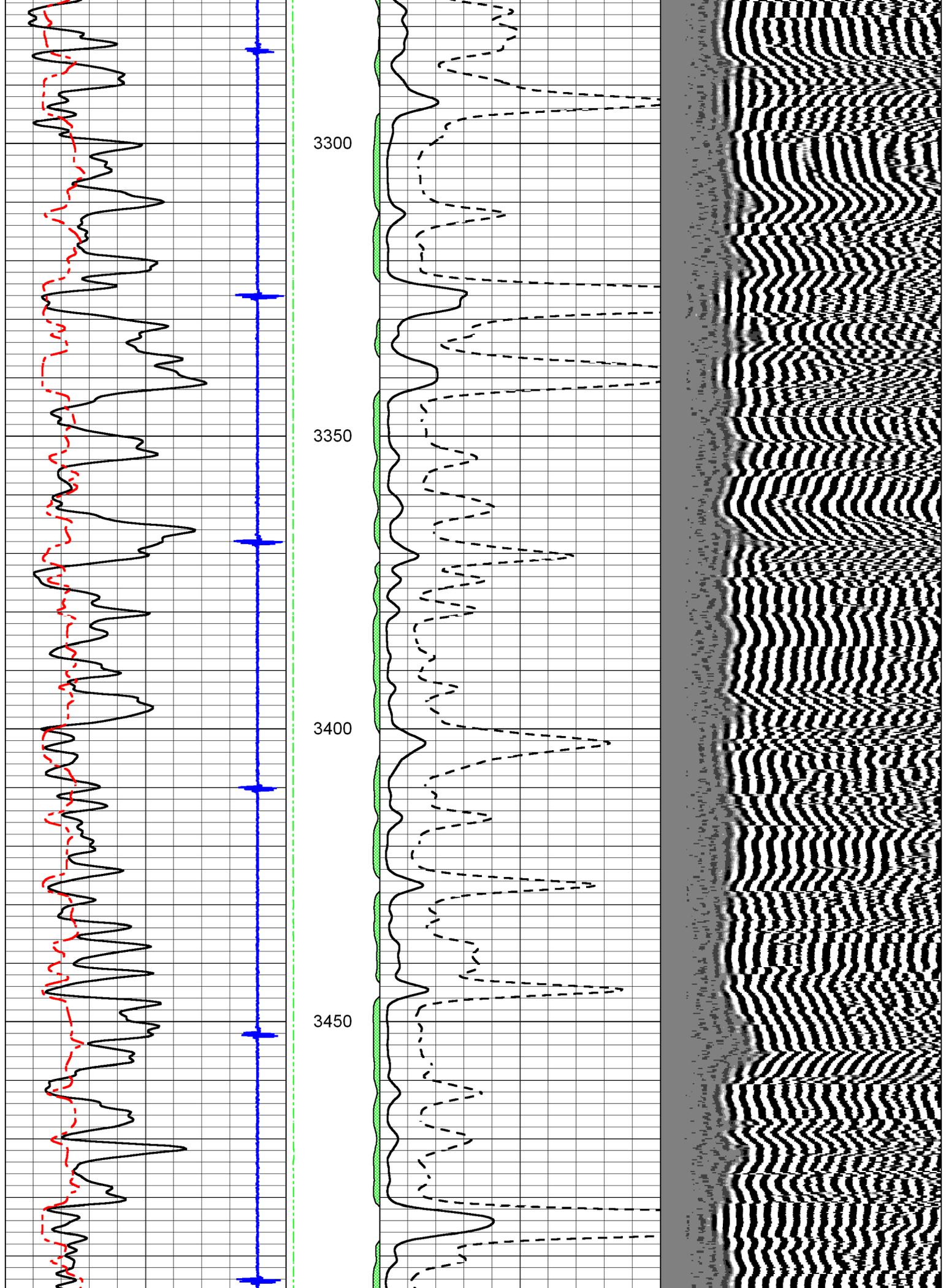
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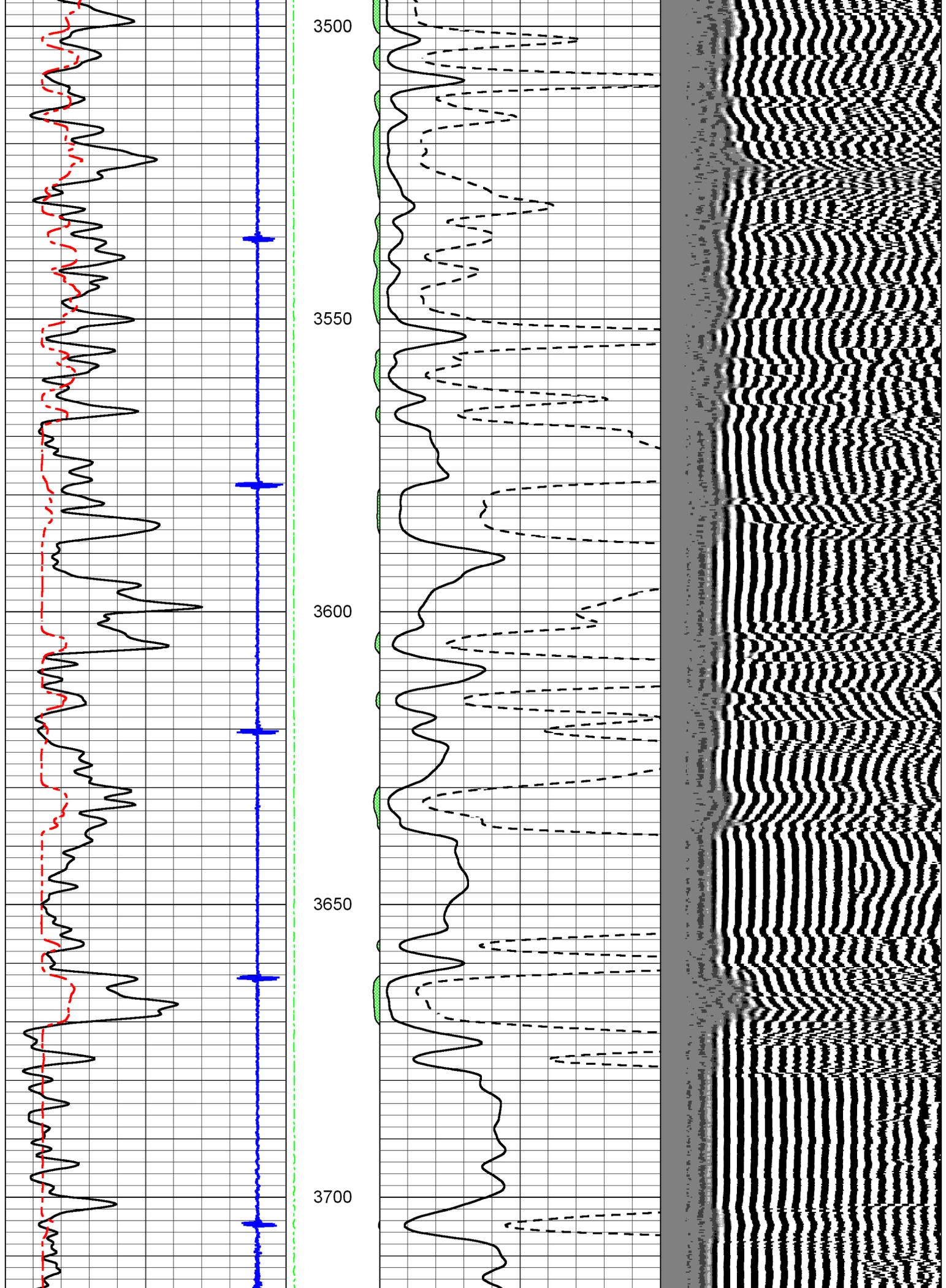
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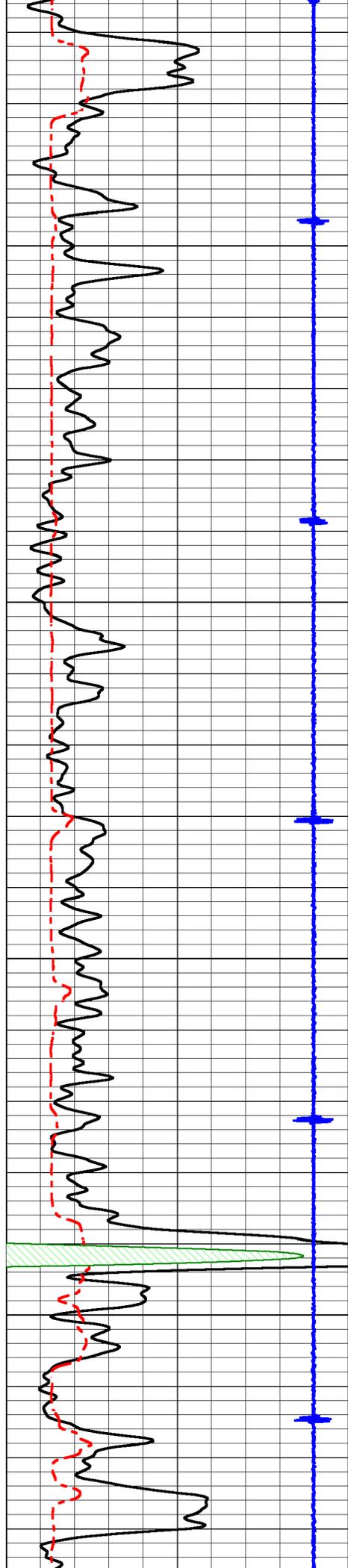










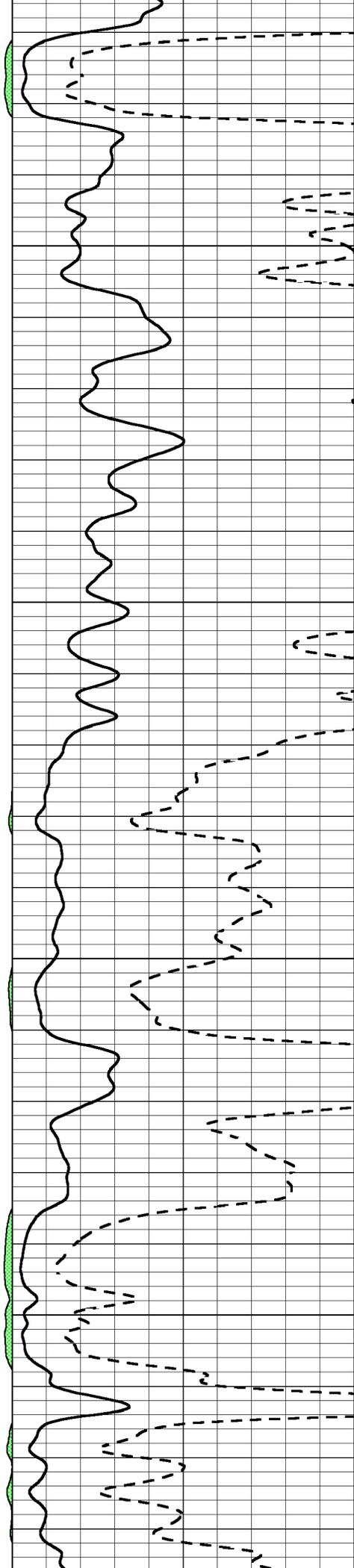


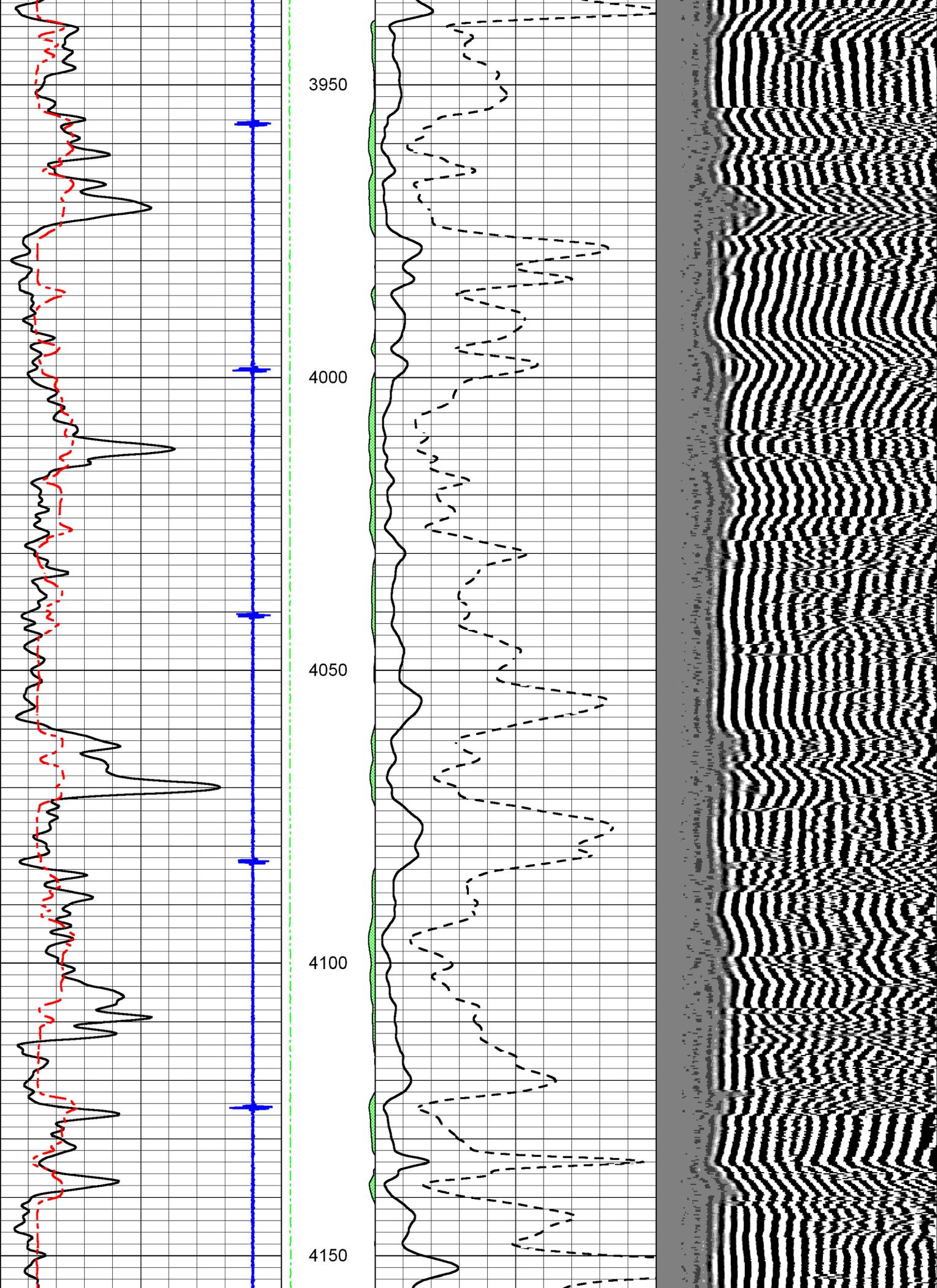
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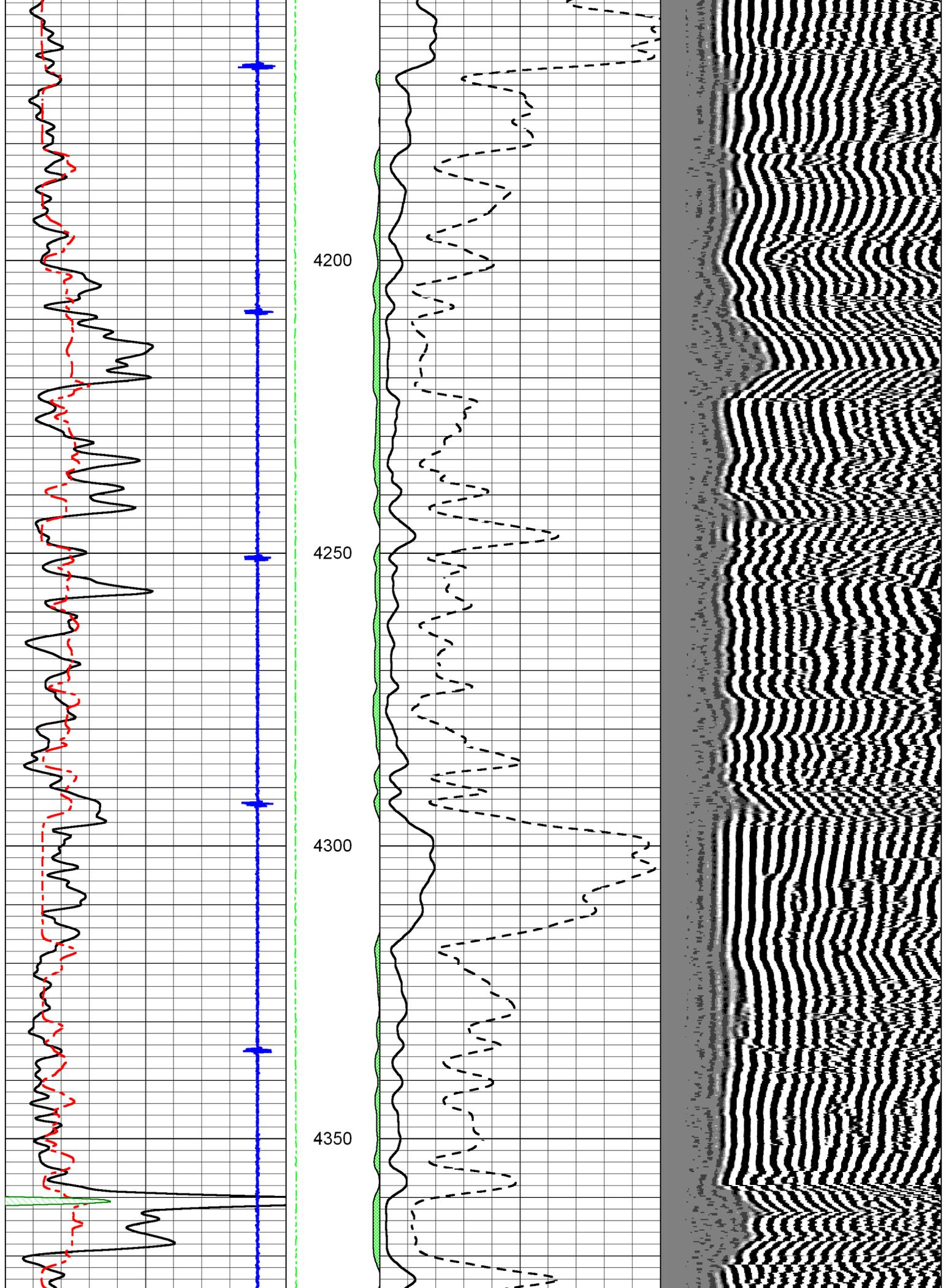
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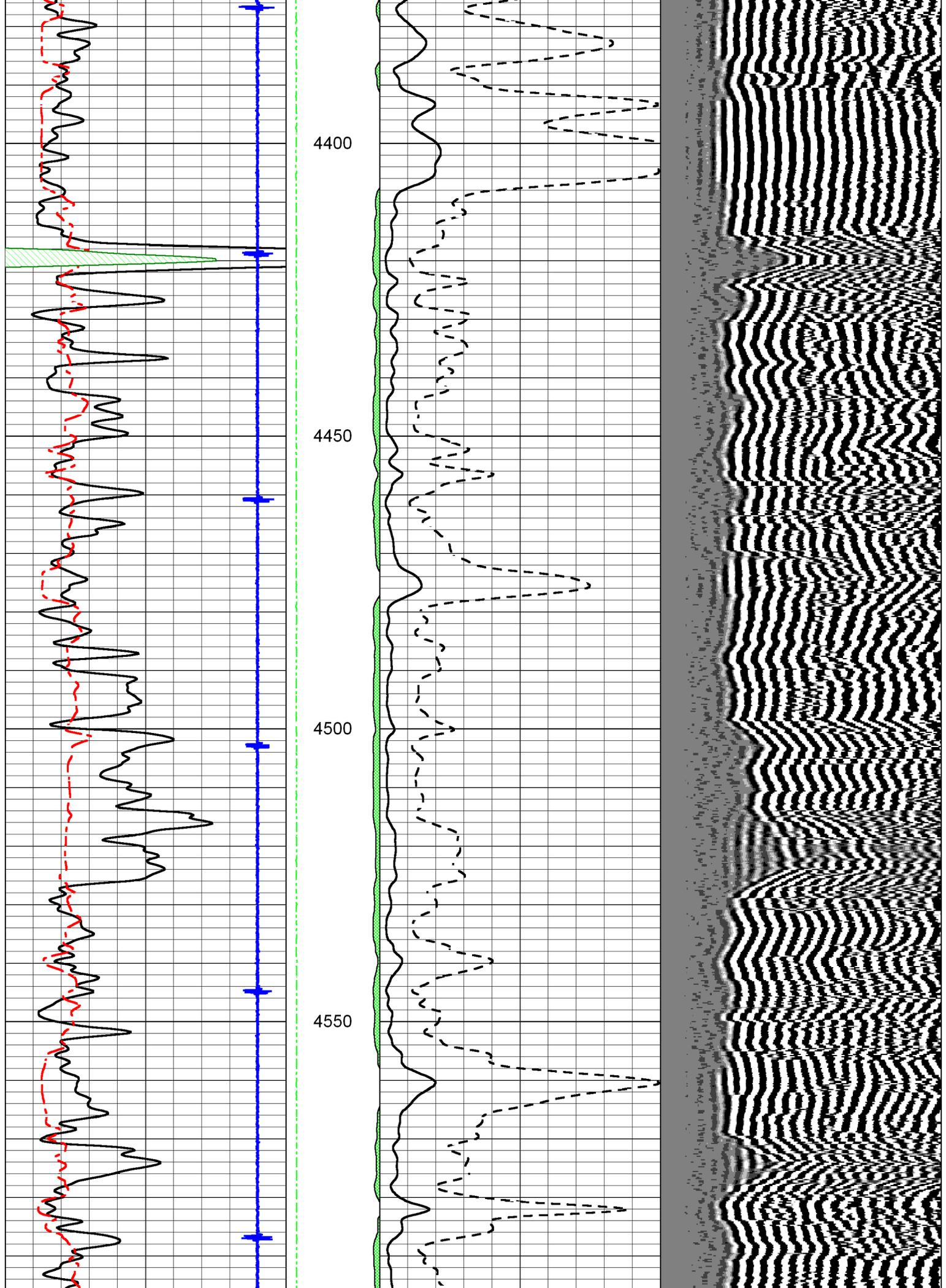
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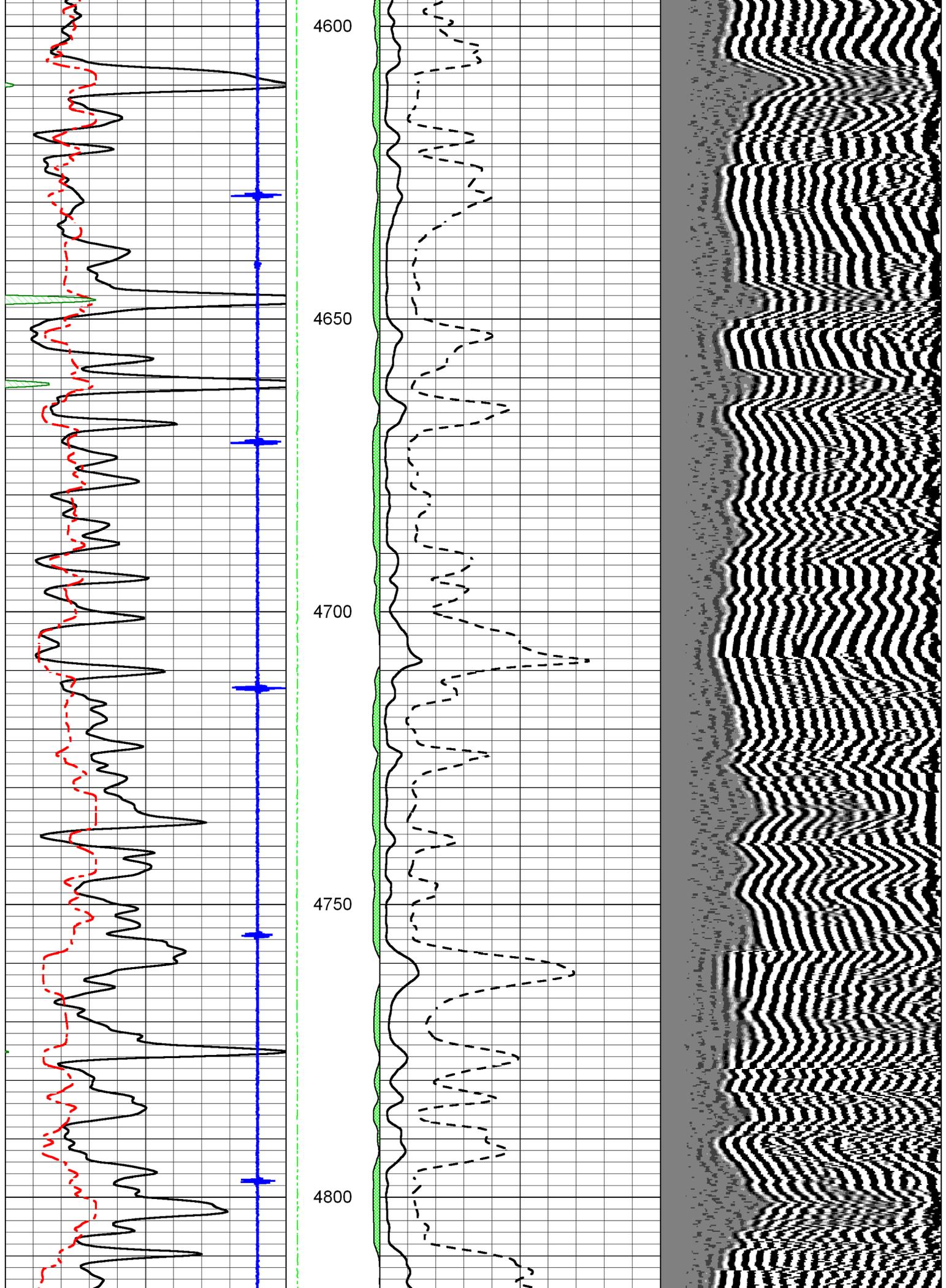
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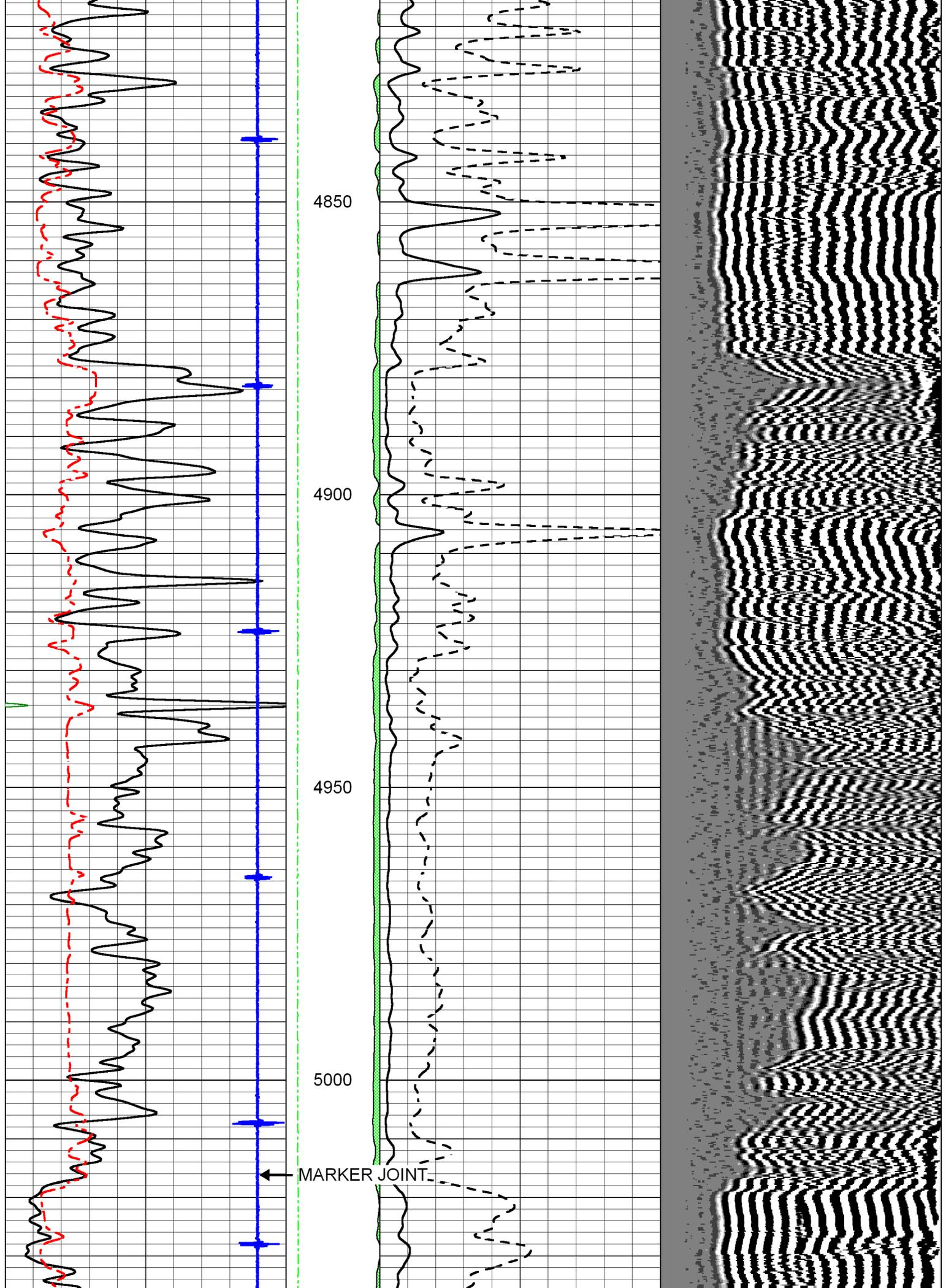


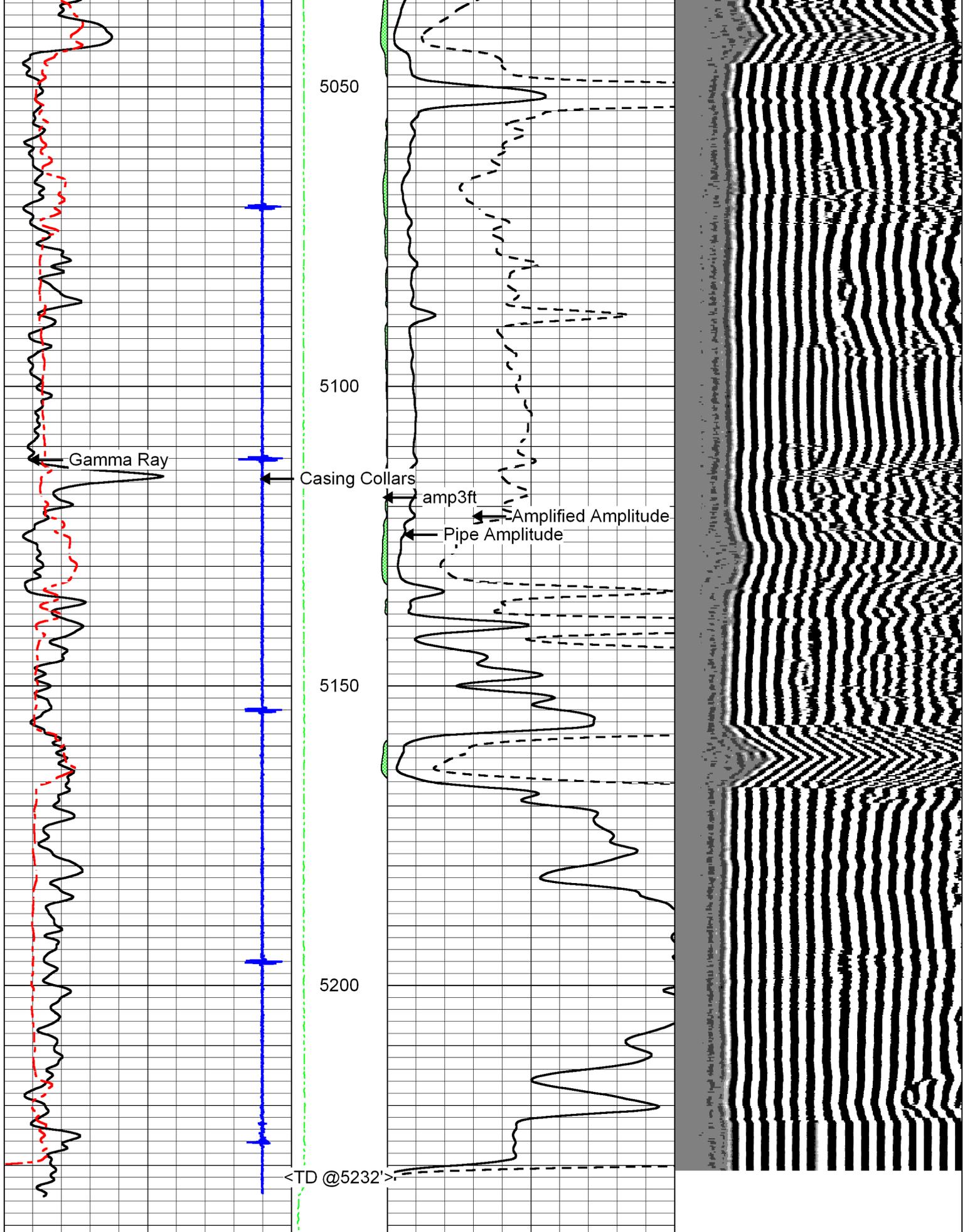












0	Gamma Ray (GAPI)	150	amp3ft	0	Pipe Amplitude (mV)	100	200	MSG	1200
9	Casing Collars	-1	(mV)	0	Amplified Amplitude (mV)	20			
200	TT3FT1 (usec)	700	-100 10						

LTEN  
(lb)  
0 3000

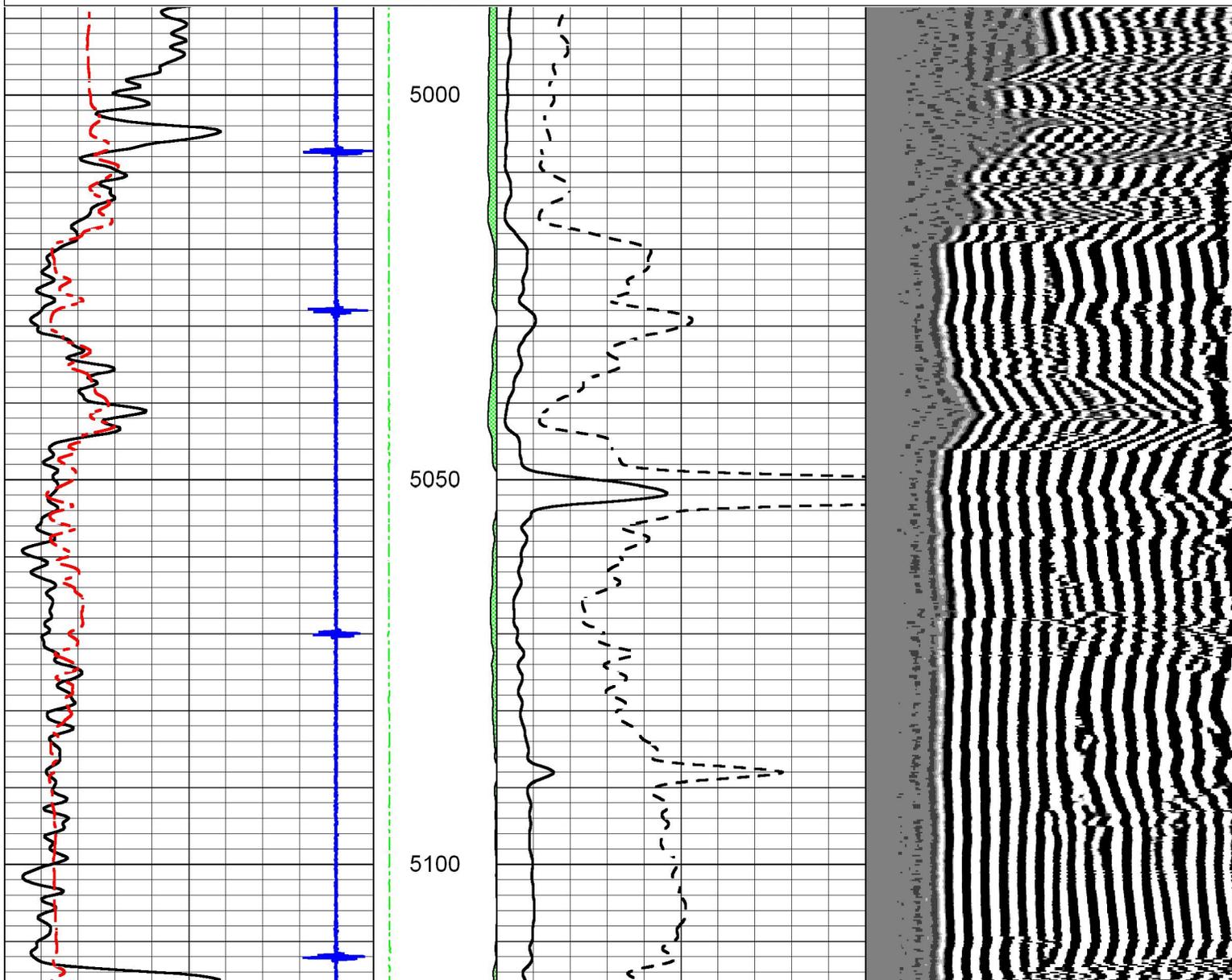


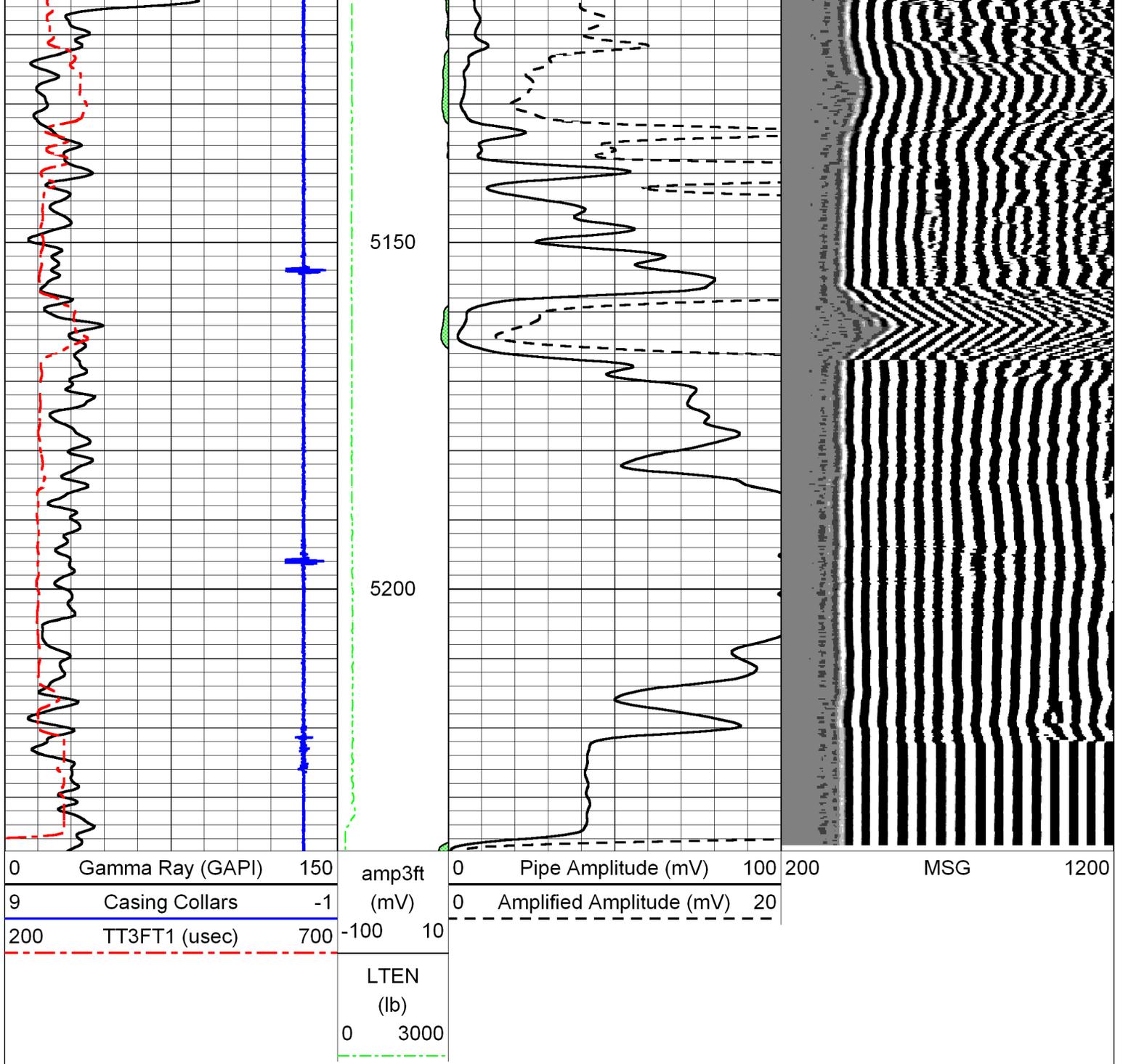
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# REPEAT SECTION

Database File ppu 97cbl.db  
 Dataset Pathname pass1.6  
 Presentation Format cbldrkc  
 Dataset Creation Wed Mar 04 10:05:13 2015  
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	amp3ft	0	Pipe Amplitude (mV)	100	200	MSG	1200
9	Casing Collars	-1	(mV)	0	Amplified Amplitude (mV)	20			
200	TT3FT1 (usec)	700	-100 10						
			LTEN (lb) 0 3000						





### Calibration Report

Database File ppu 97cbl.db  
 Dataset Pathname pass1.7  
 Dataset Creation Wed Mar 04 10:13:15 2015

### Gamma Ray Calibration Report

Serial Number: 275  
 Tool Model: Probe  
 Performed: Wed Mar 04 09:55:44 2015

Calibrator Value: 100.0 GAPI

Background Reading: 35.0 cps  
 Calibrator Reading: 160.0 cps

Sensitivity: 1.0000 GAPI/cps

## Segmented Cement Bond Log Calibration Report

Serial Number: 120507  
 Tool Model: Probe  
 Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 2133.449 ft

Master Calibration, performed Wed Mar 04 09:47:12 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.174	1.000	71.921	60.779	0.541
CAL	0.007	1.603				
5'	0.007	1.060	1.000	71.921	67.330	0.556
SUM						
S1	0.457	1.122	0.000	100.000	150.359	-68.704
S2	0.006	1.121	0.000	100.000	89.668	-0.546
S3	0.006	1.132	0.000	100.000	88.816	-0.549
S4	0.007	1.161	0.000	100.000	86.620	-0.567
S5	0.006	1.157	0.000	100.000	86.921	-0.550
S6	0.007	1.136	0.000	100.000	88.553	-0.609
S7	0.007	1.146	0.000	100.000	87.807	-0.592
S8	0.007	1.151	0.000	100.000	87.353	-0.585

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	1.603	1.000	0.000

Air Zero Calibration, performed Tue Mar 03 12:52:48 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Gain	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



Pioneer Energy Services

**Company** CASILLAS PETROLEUM CORP.  
**Well** PLEASANT PRAIRE UNIT #97  
**Field** PLEASANT PRAIRE  
**Parish** FINNEY  
**State** Kansas

