

**VDL CCL  
GAMMA RAY  
CEMENT BOND LOG**

**Company** CHEVRON CORPERATION  
**Well** WEBSTER 14-32  
**Field** WATTENBERG  
**County** WELD  
**State** COLORADO

**Location:** API # : 05-123-13572  
LAT/LONG: 40.436555/-104.575876  
LAT/LONG: 40.436478/-104.576478  
SEC 32 TWP 6 RGE 64  
**Permanent Datum** GL  
**Log Measured From** KB  
**Drilling Measured From** KB  
**Other Services** CIBP  
**Elevation** 4623'  
K.B. 4633'  
D.F. 4632'  
G.L. 4623'

**Date** 12-8-20

**Run Number** 1  
**Depth Driller** 7090'  
**Depth Logger** 6563'  
**Bottom Logged Interval** 6563'  
**Top Log Interval** SURFACE  
**Open Hole Size** 8.265"  
**Type Fluid** WATER  
**Density / Viscosity** N/A  
**Max. Recorded Temp.** N/A  
**Estimated Cement Top** N/A  
**Time Well Ready** 14:05  
**Time Logger on Bottom** 15:15  
**Equipment Number** 473  
**location** EATON, CO.  
**Recorded By** JAKE BAILEY  
**Witnessed By** MARK ABBOTT

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.265"	26#	SURFACE	319'
Prot. String				
Production String	4.5"	15.1#	SURFACE	7090'
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**

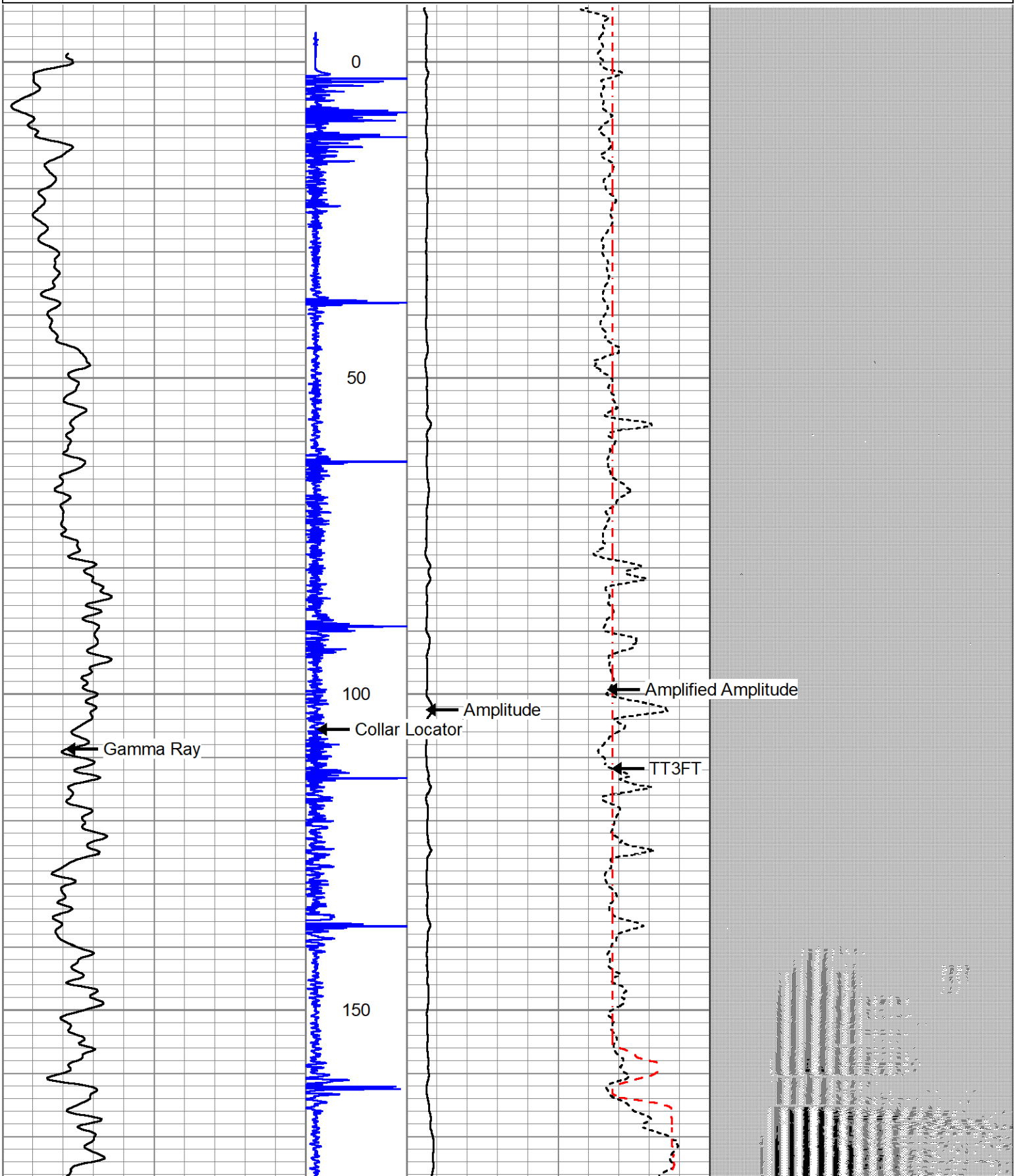
**LOG RAN PER CUSTOMERS REQUEST  
DEPTH REFERENCED TO KB  
ZERO PRESSURE APPLIED**

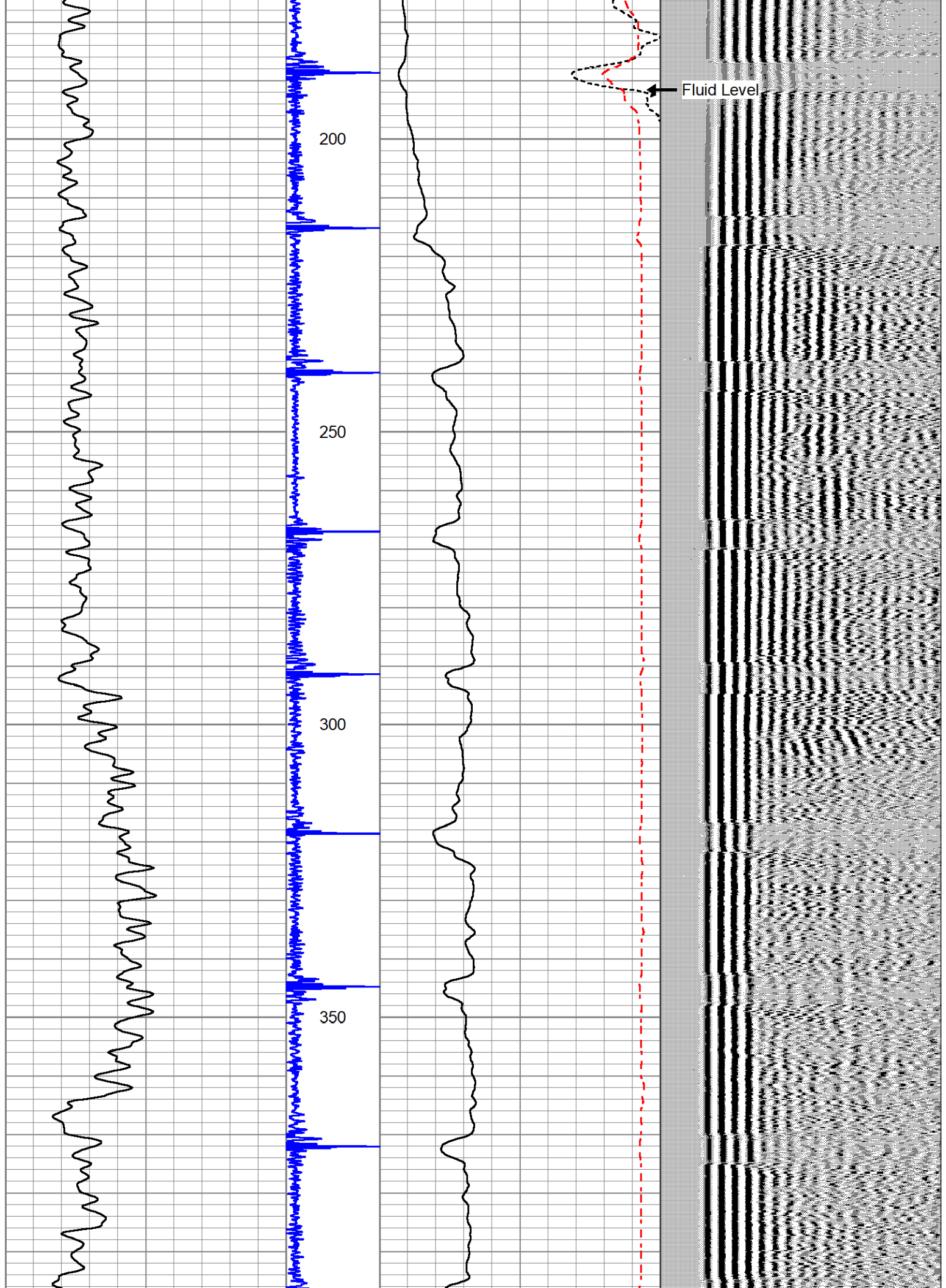
**MAIN PASS 6563' TO SURFACE  
THANK YOU FOR USING A-PLUS WELL SOLUTIONS**



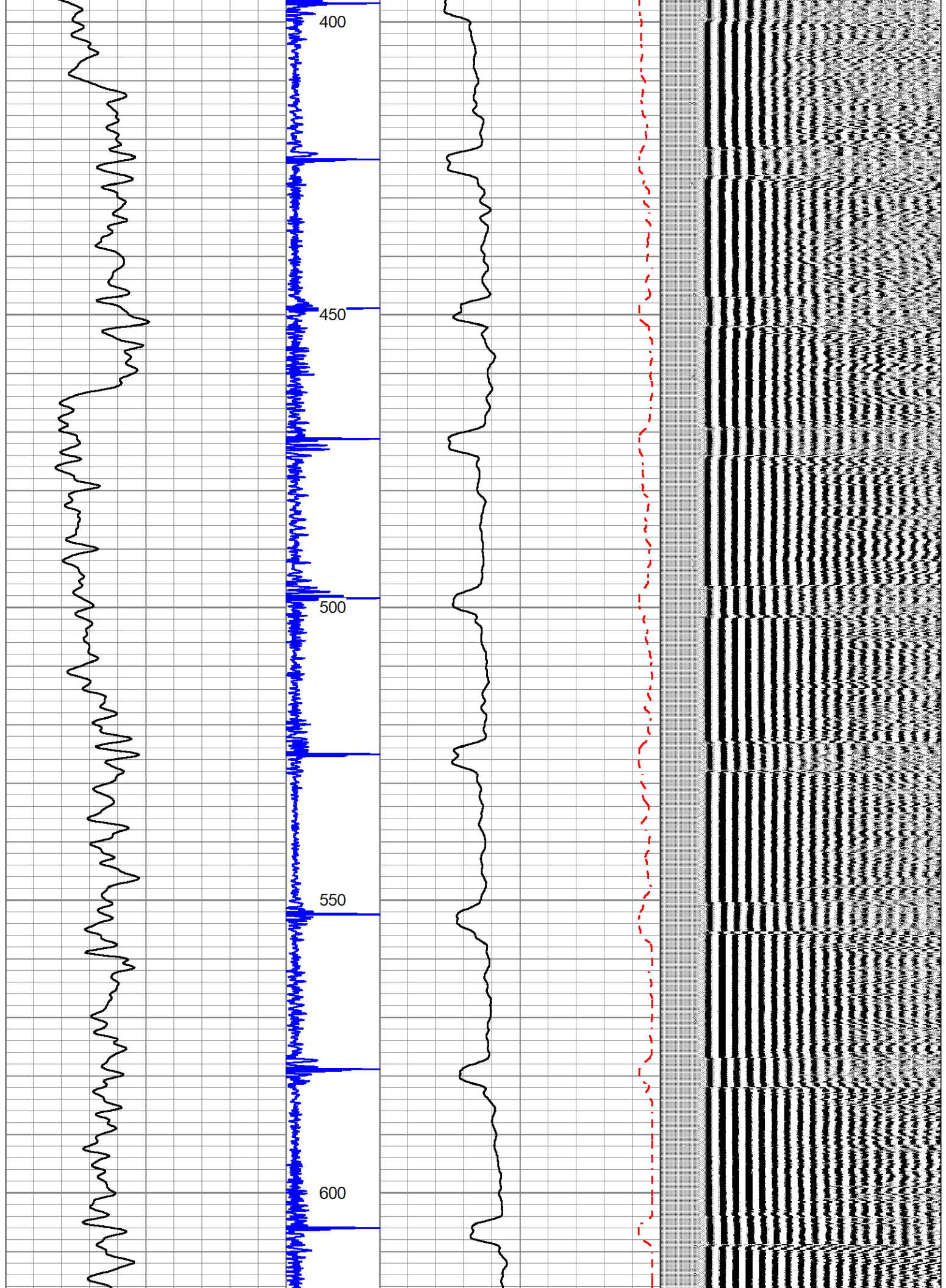
**MAIN PASS**

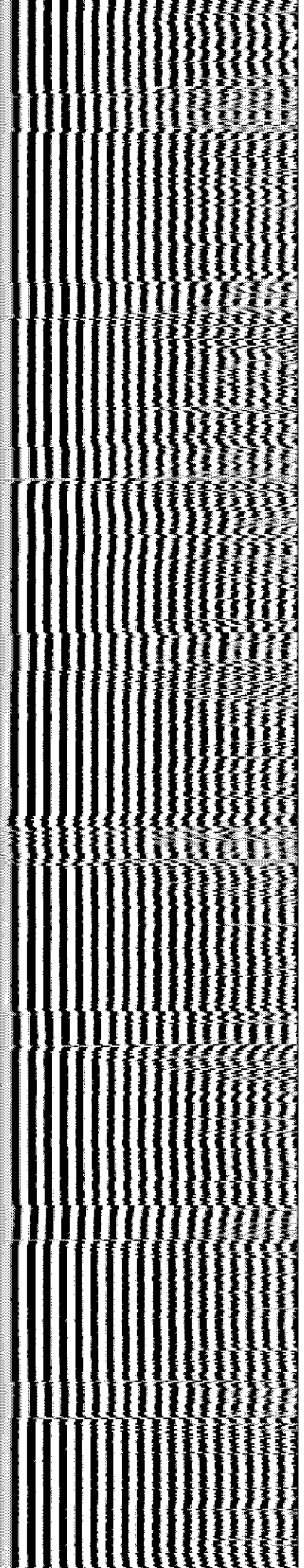
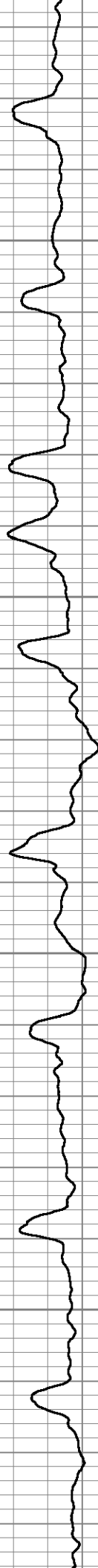
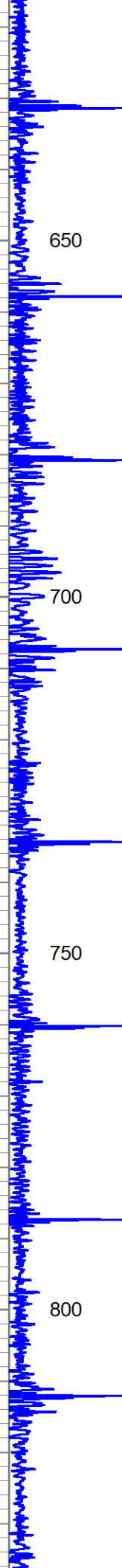
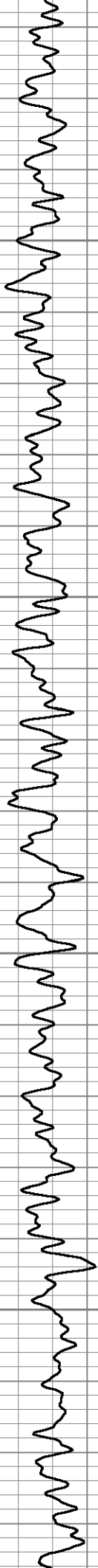
0	Gamma Ray (GAPI)	250	Collar Locator	0	Amplified Amplitude (mV)	10	200	VDL (usec)	1200
0	Line Speed (ft/min)	-100	-1	9	0	Amplitude (mV)	100		
					1200	TT3FT (usec)	200		

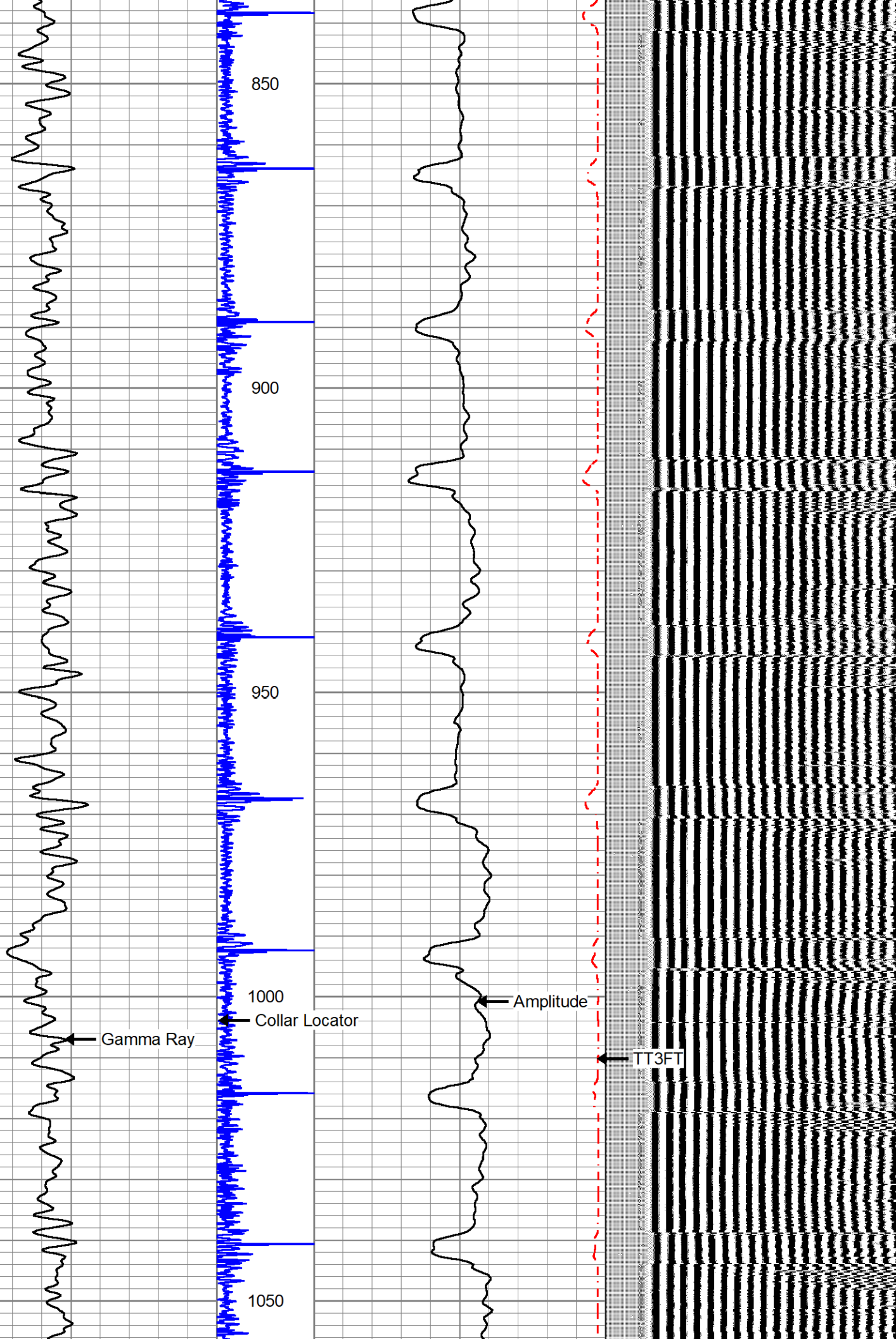




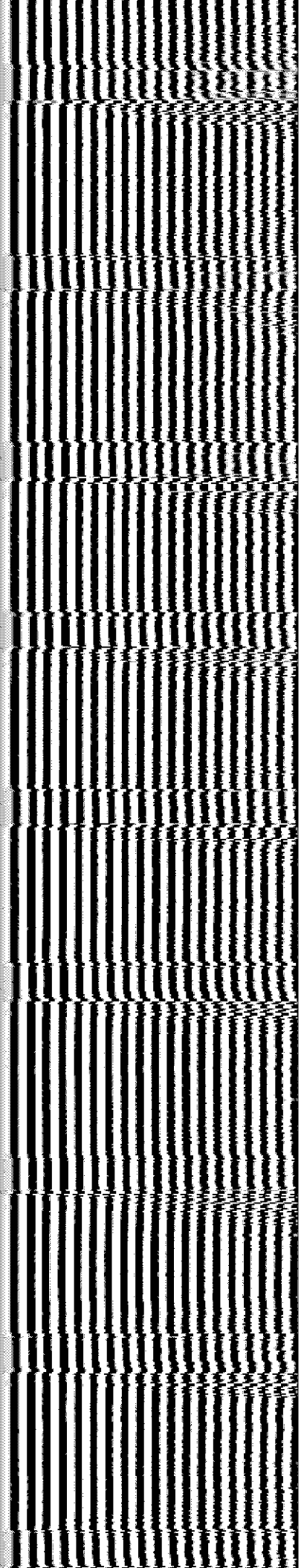
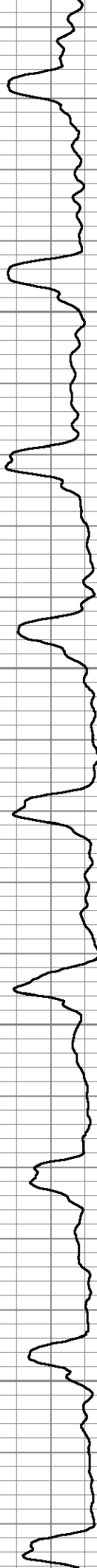
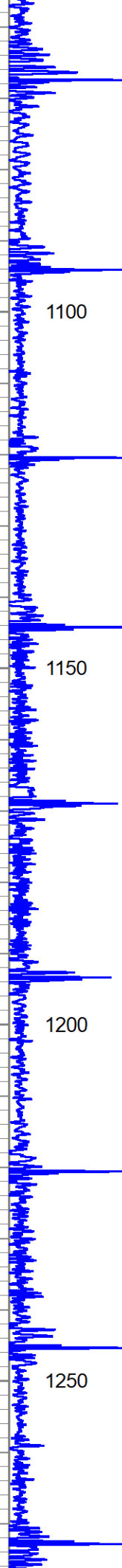


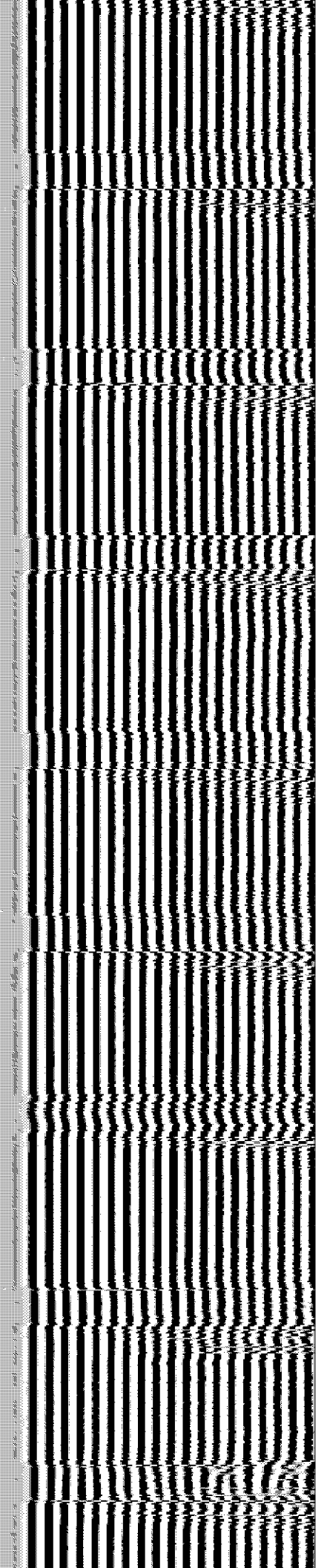
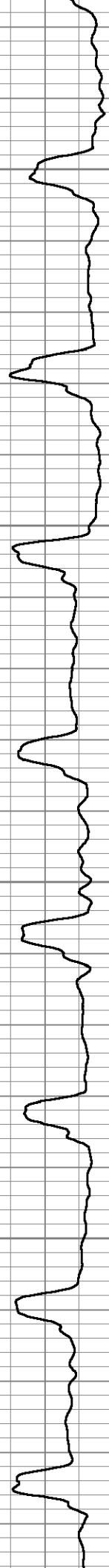
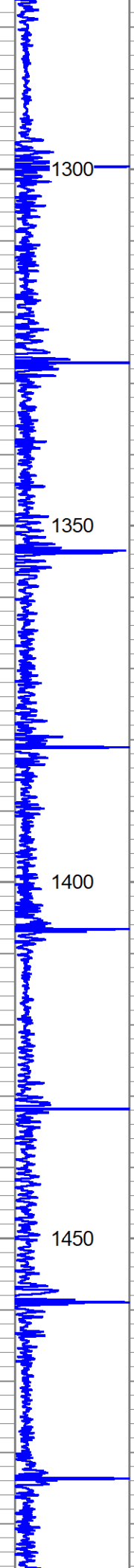




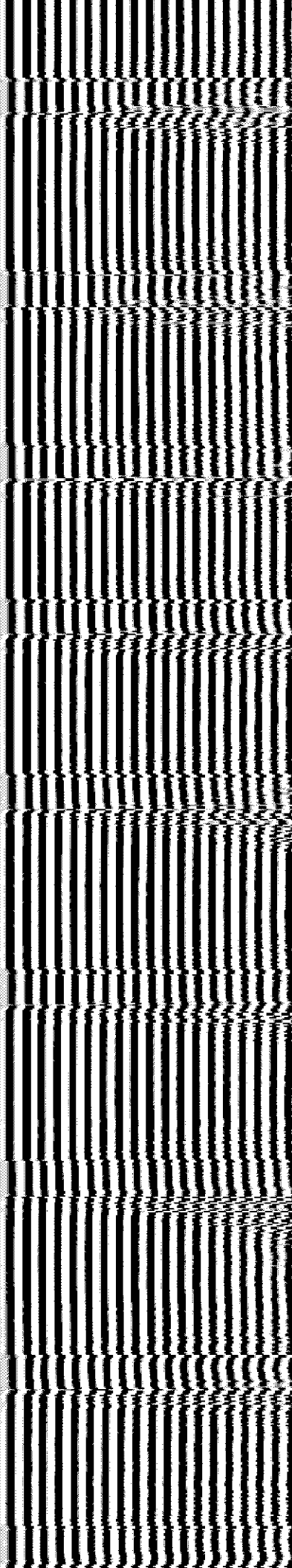
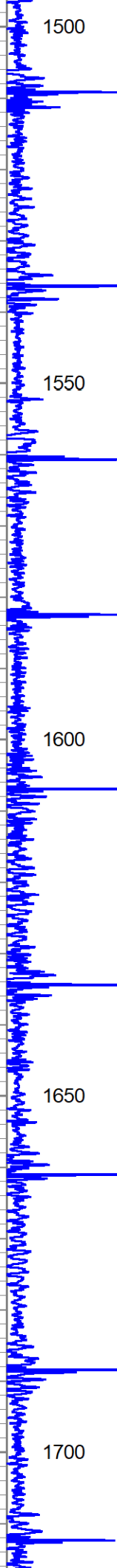
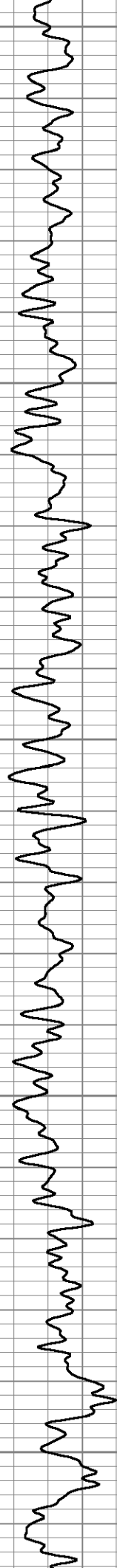


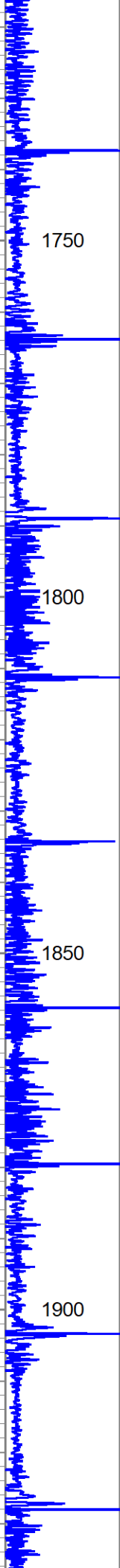










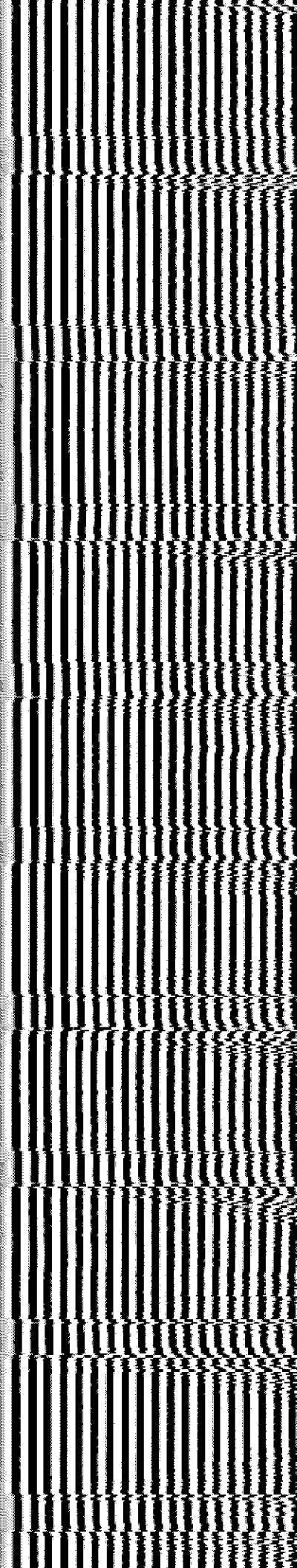
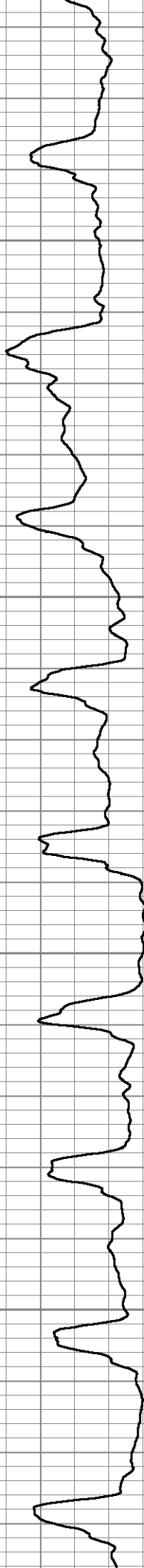


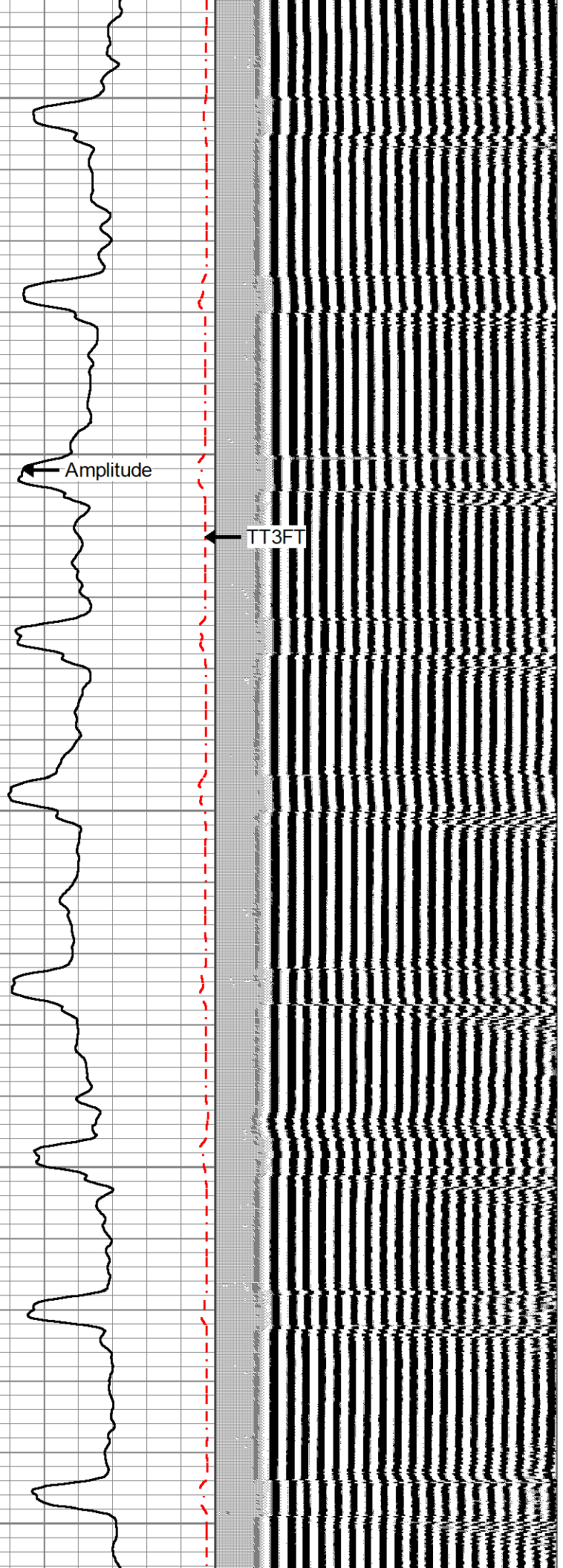
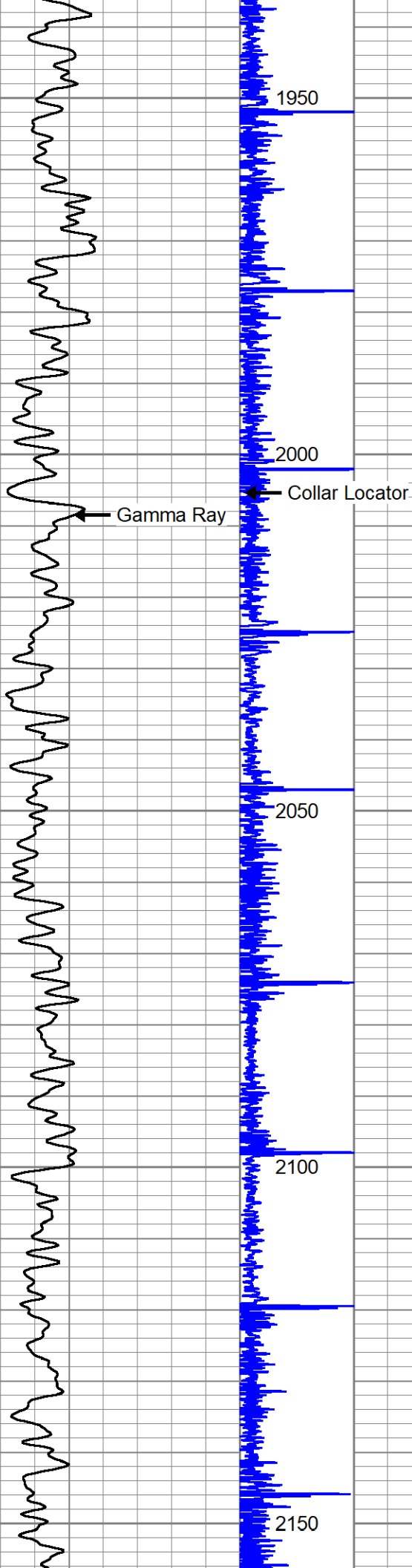
1750

1800

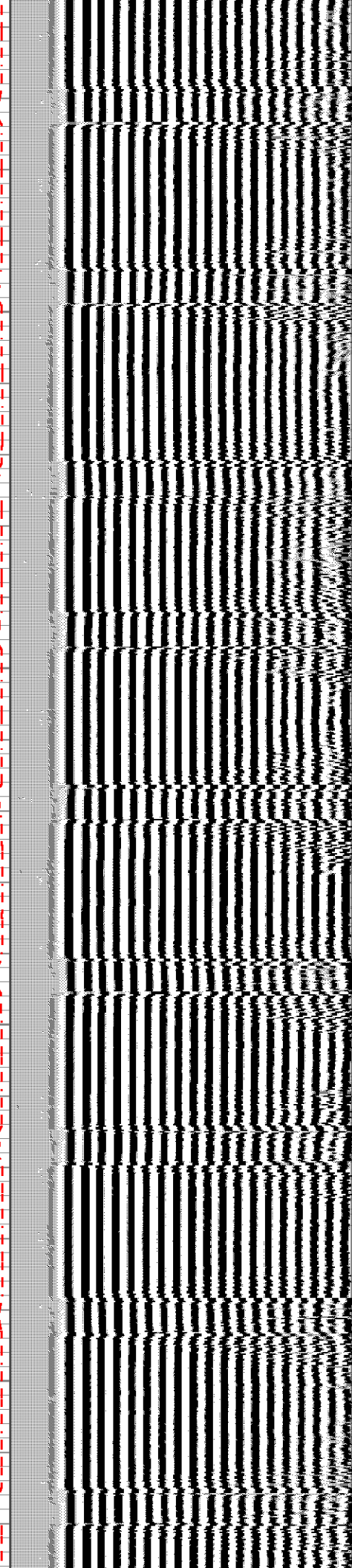
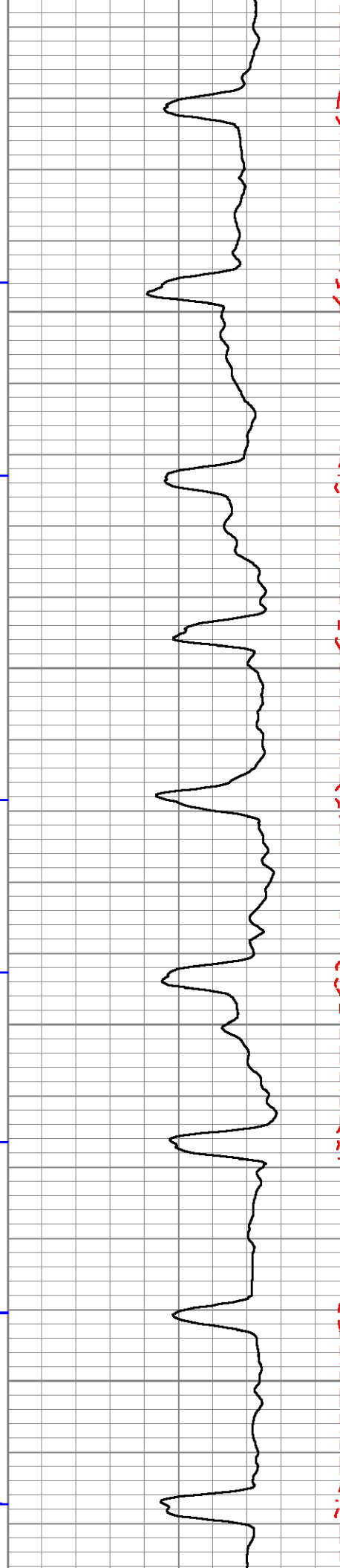
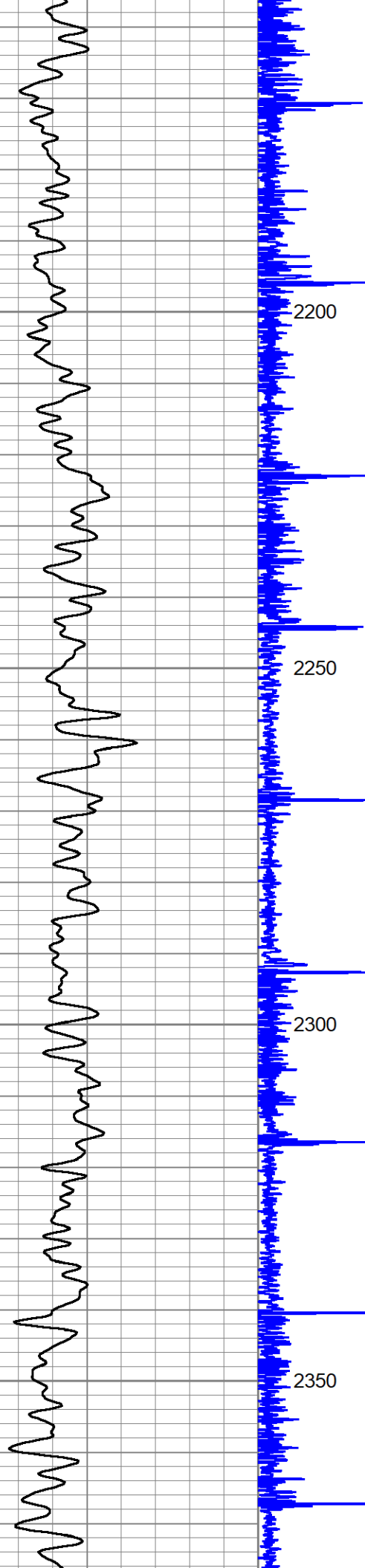
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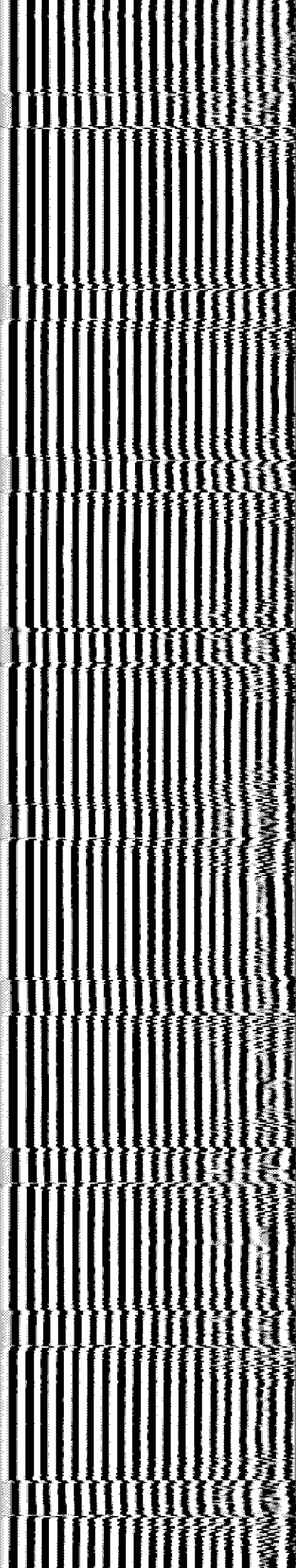
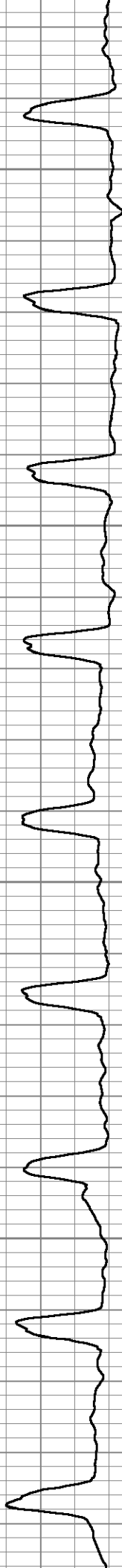
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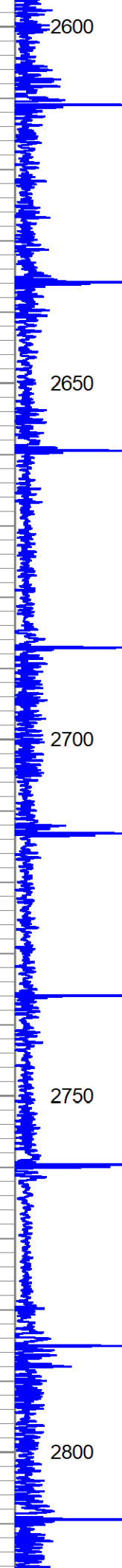












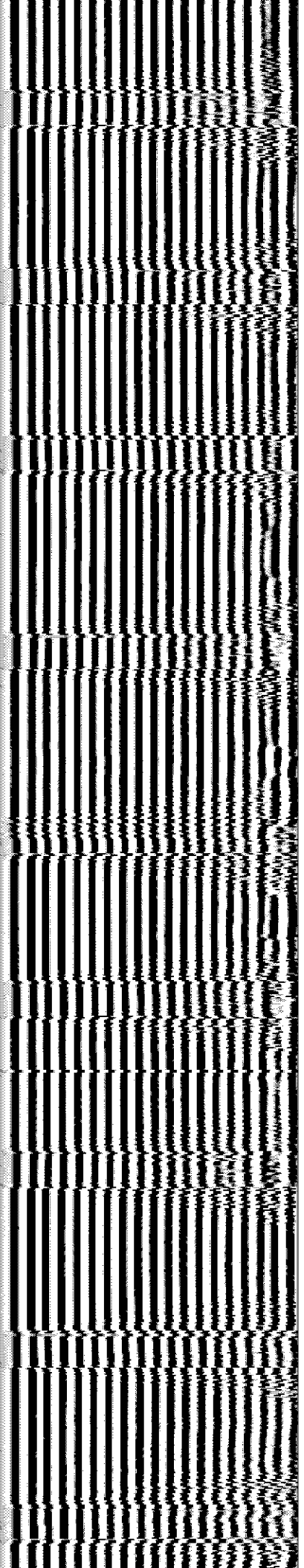
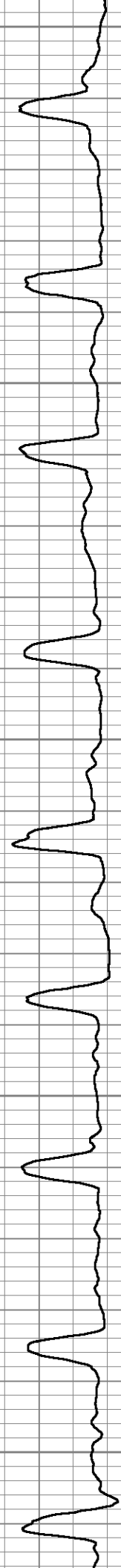
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2650

2700

2750

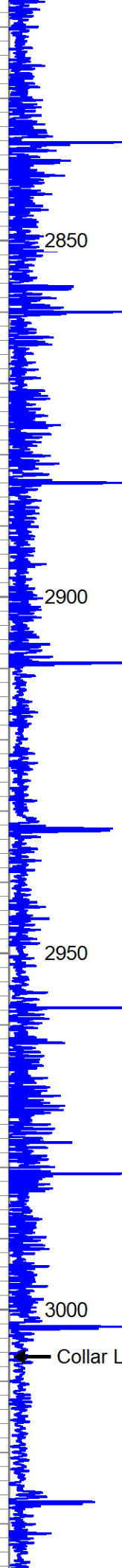
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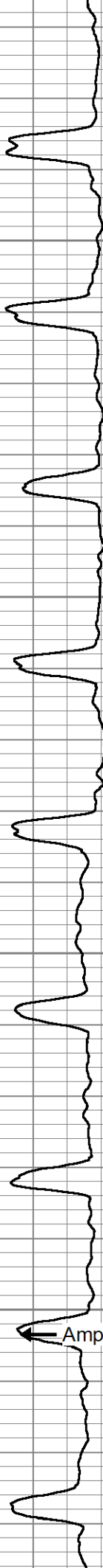




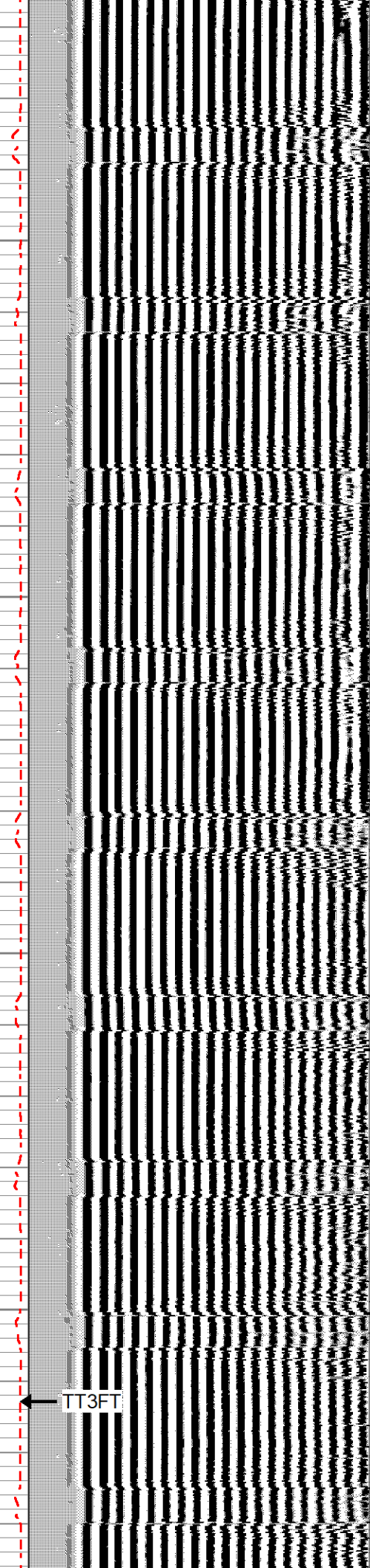
Gamma Ray



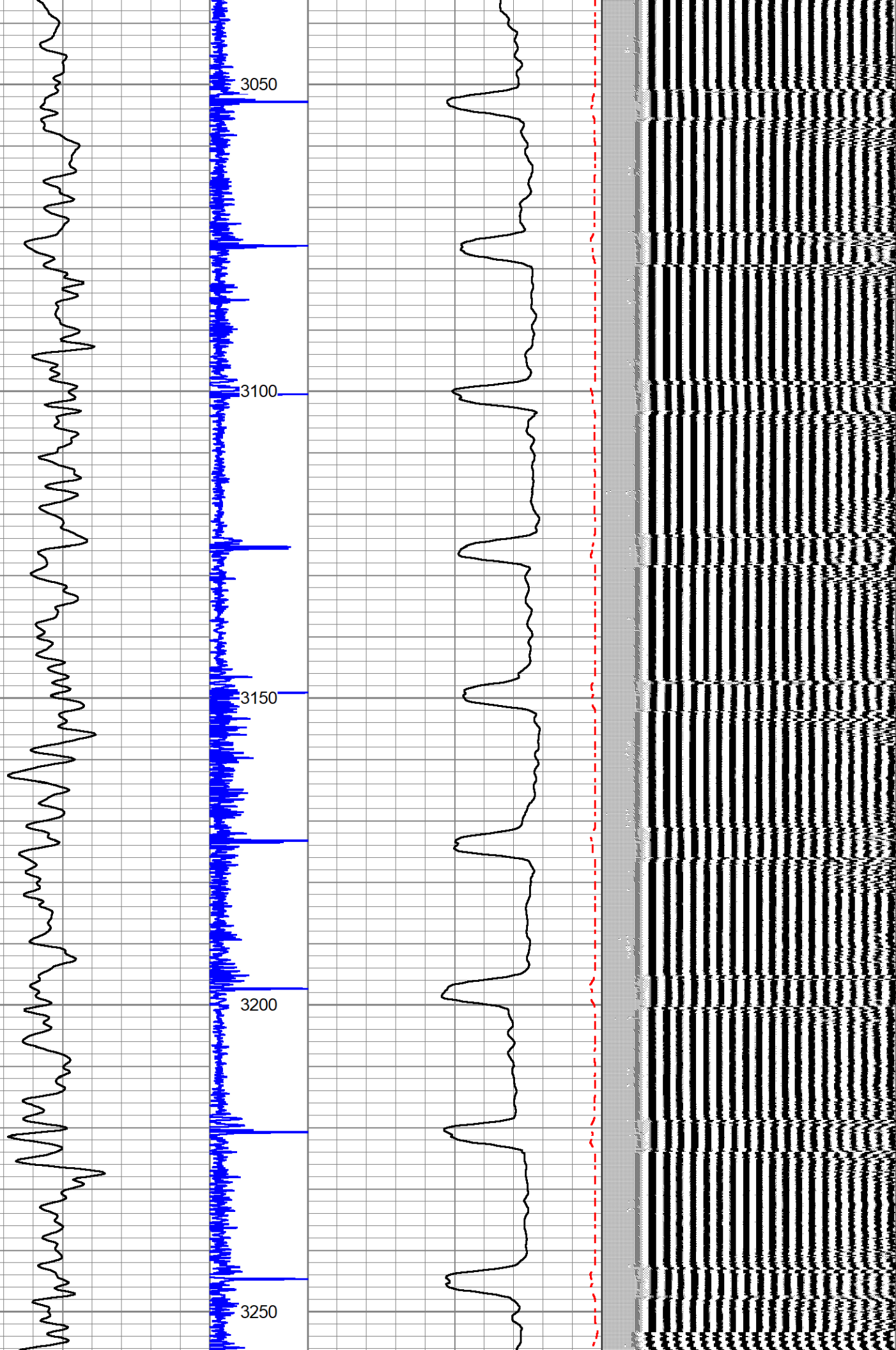
Collar Locator



Amplitude



TT3FT



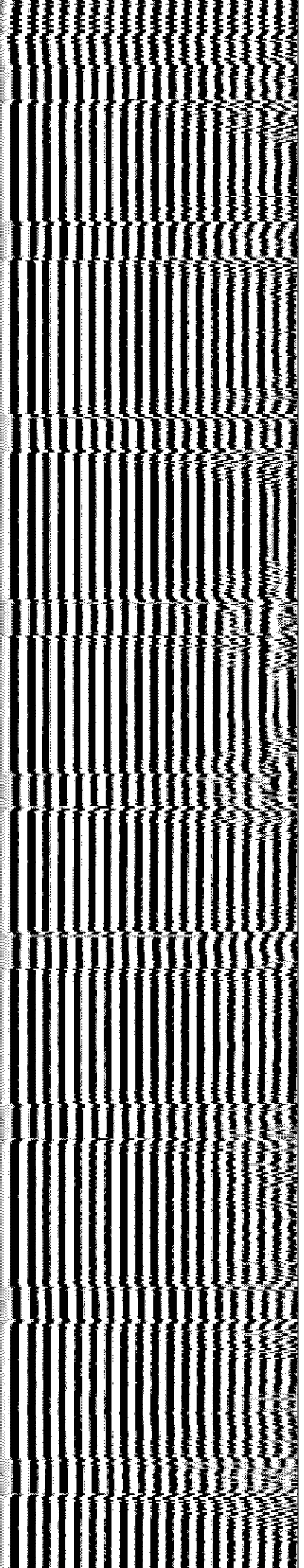
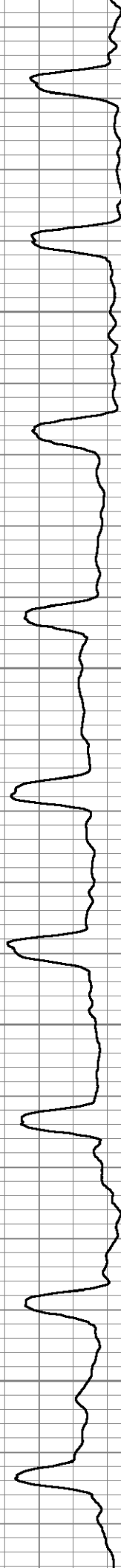


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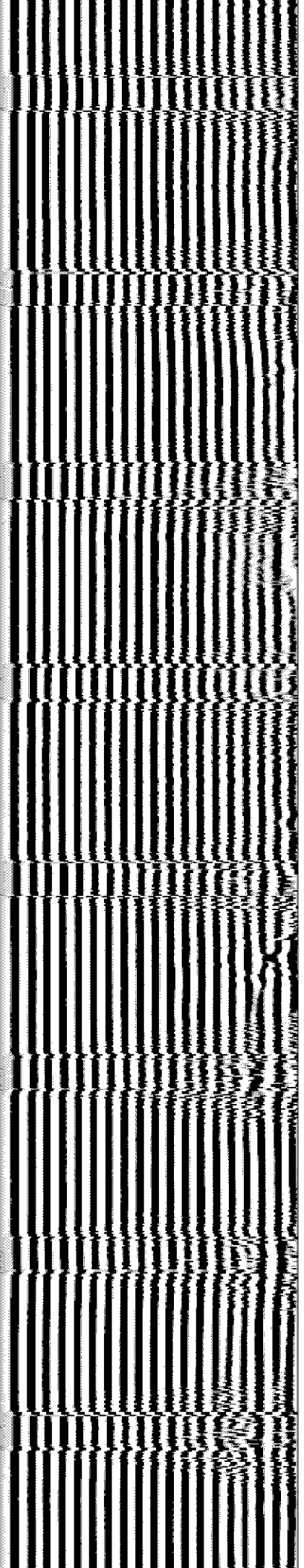
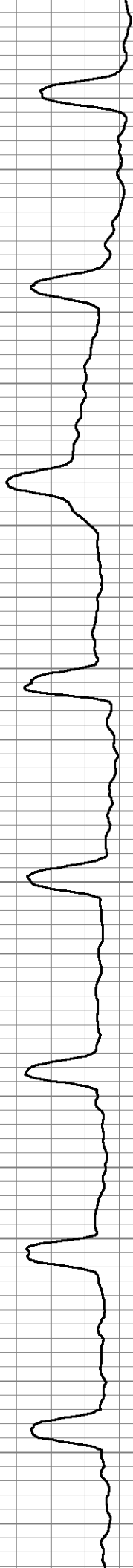
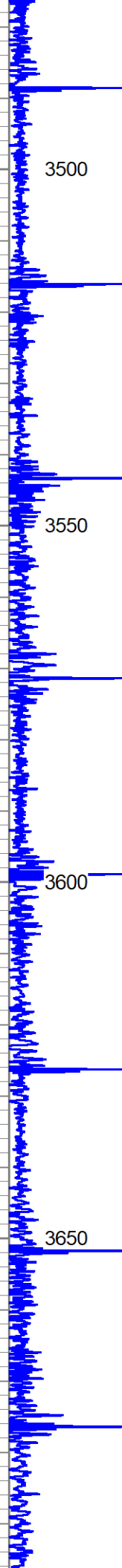
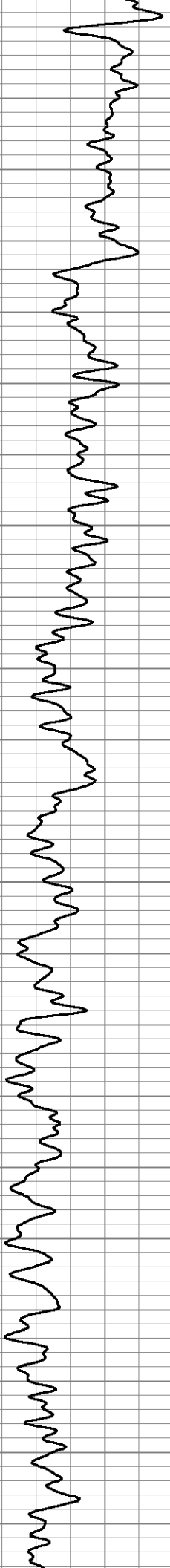
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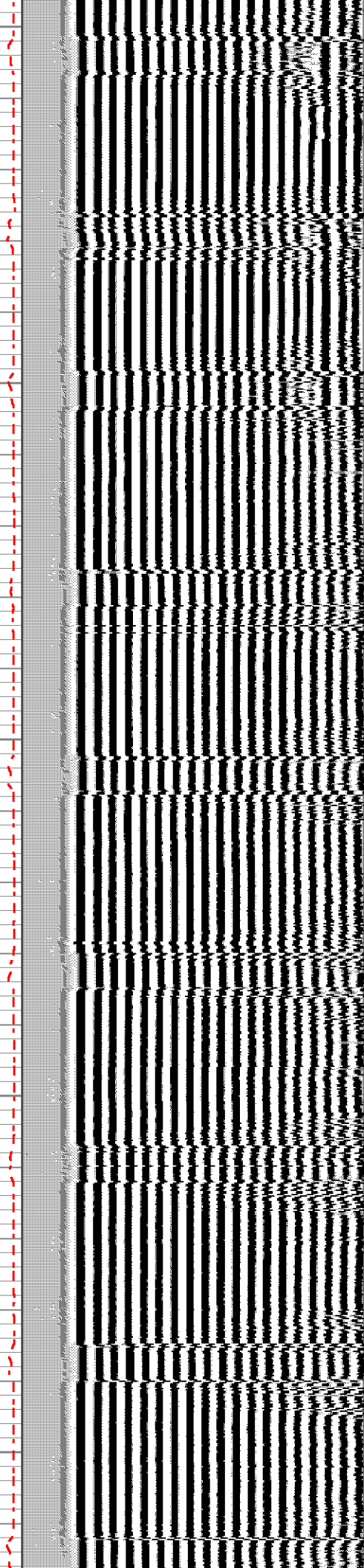
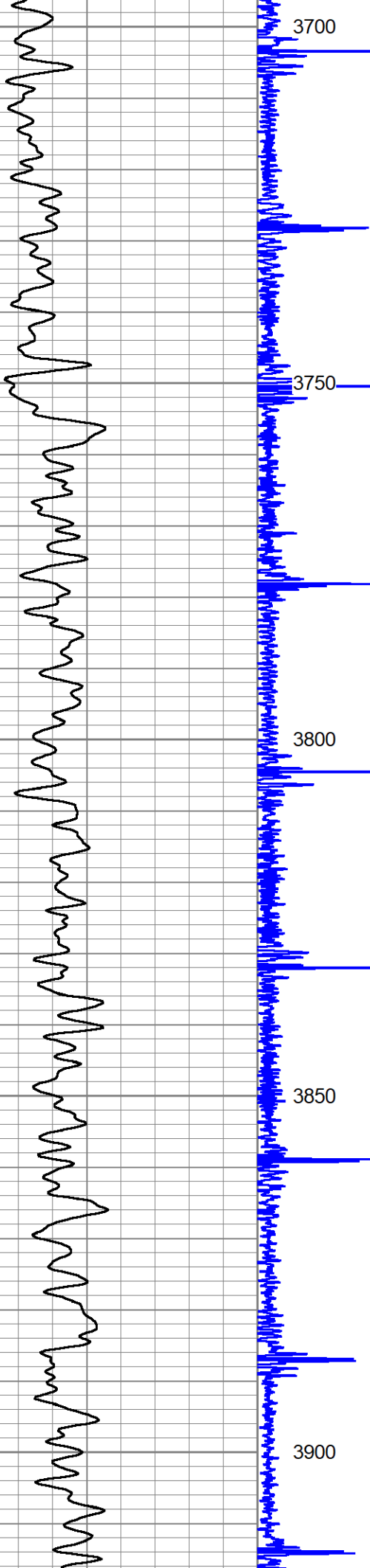
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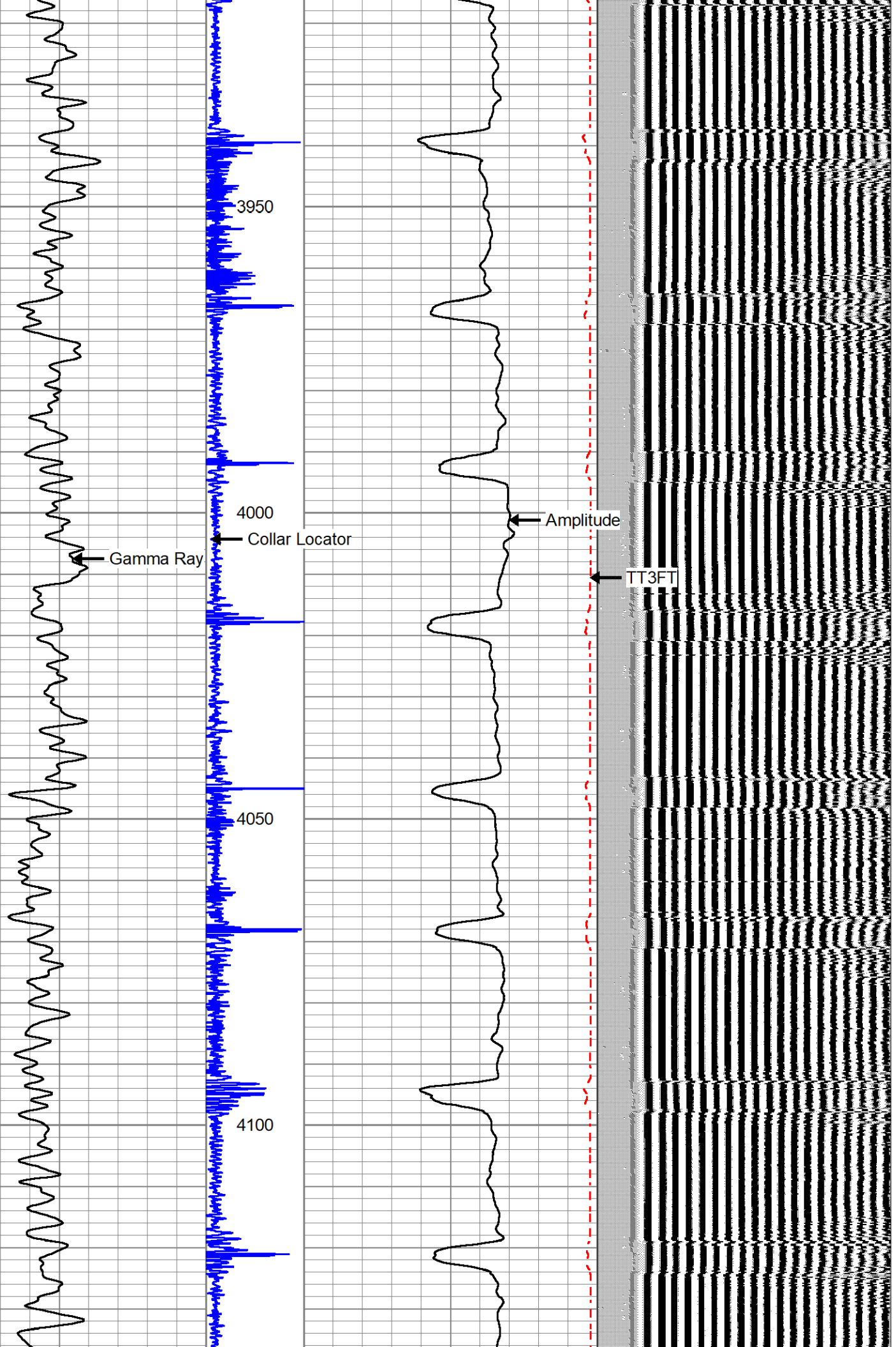
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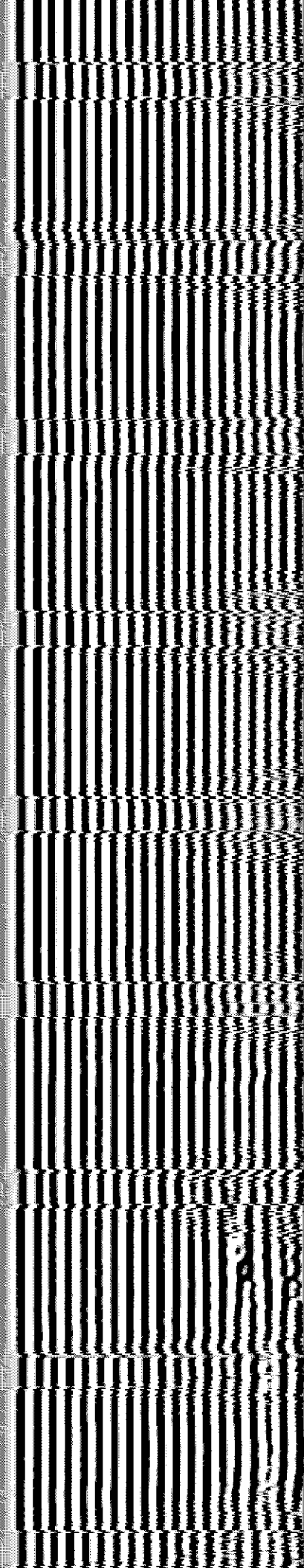
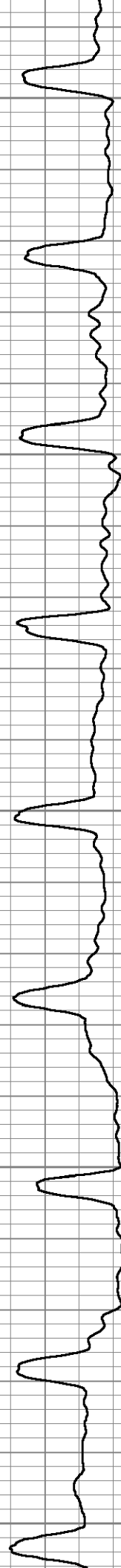
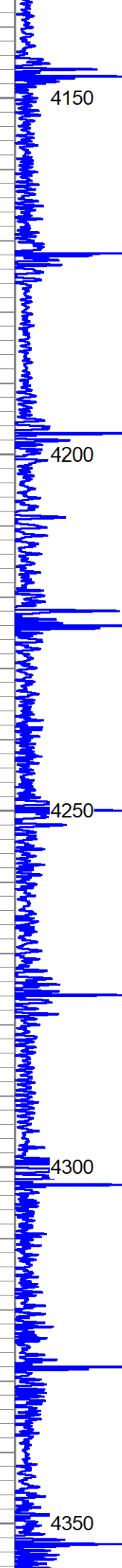


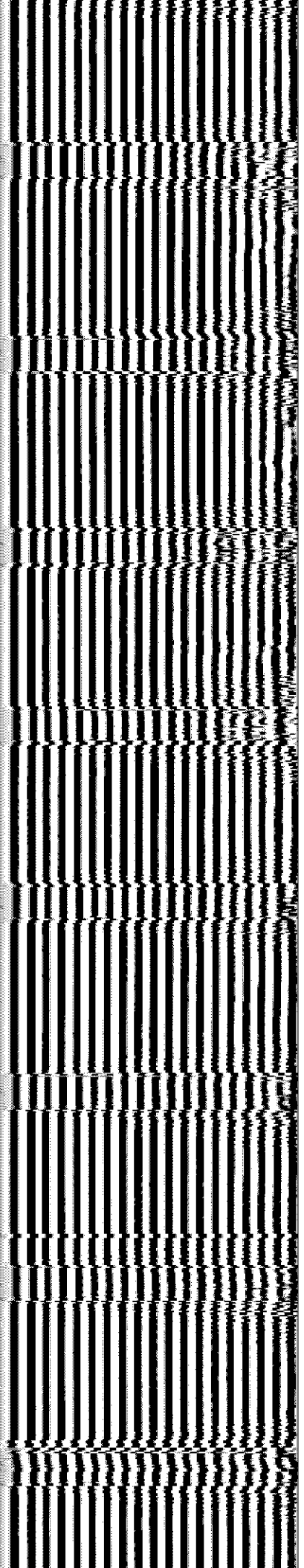
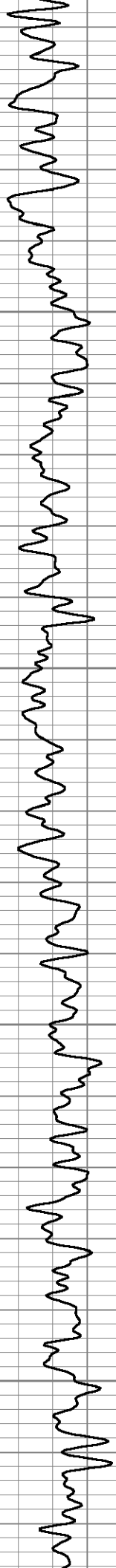












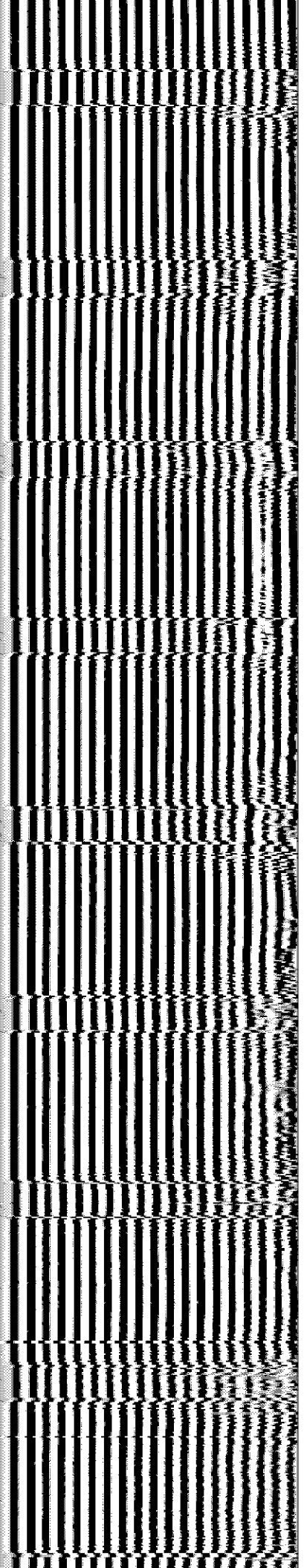
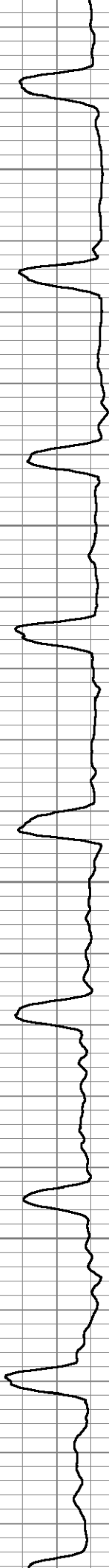


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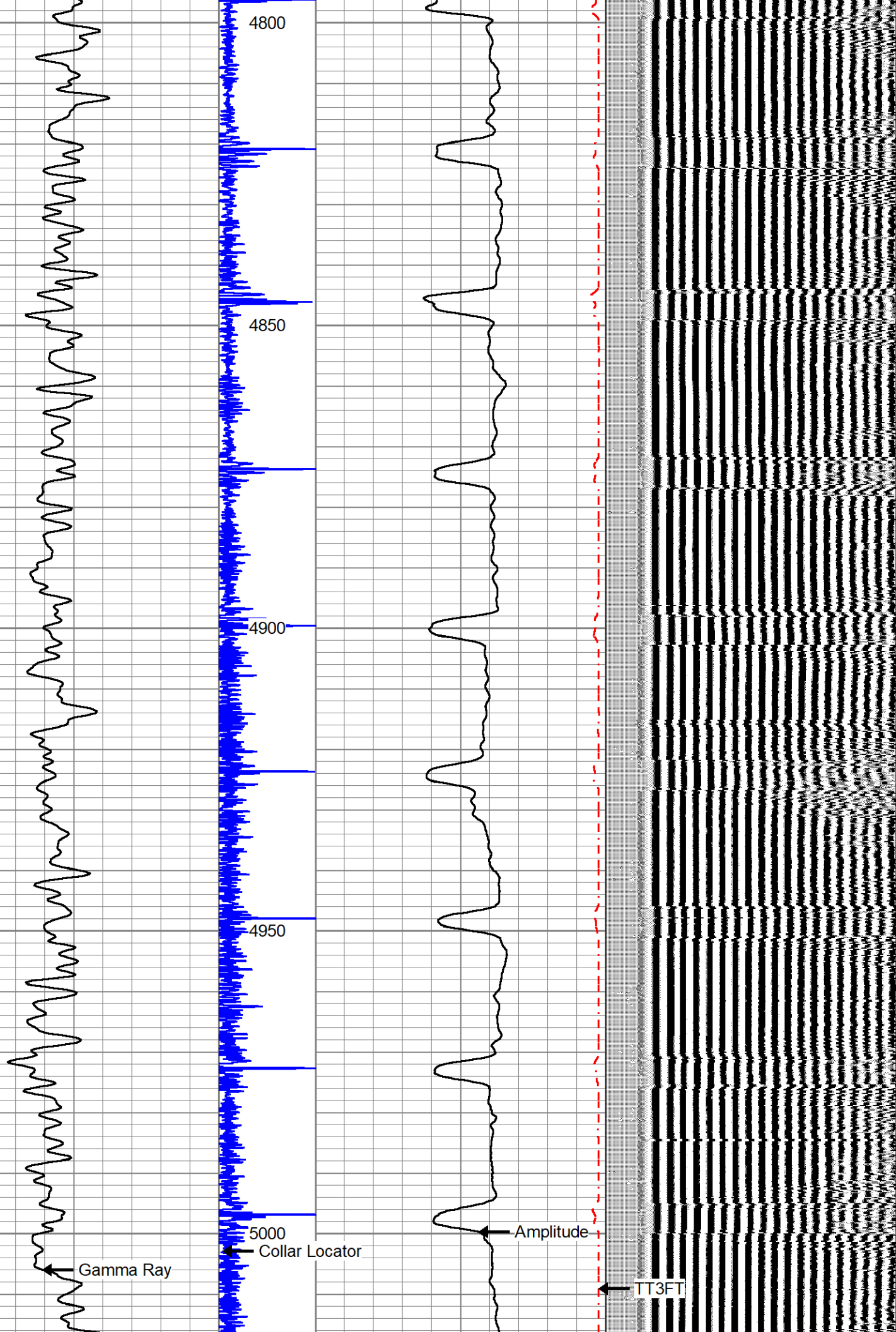
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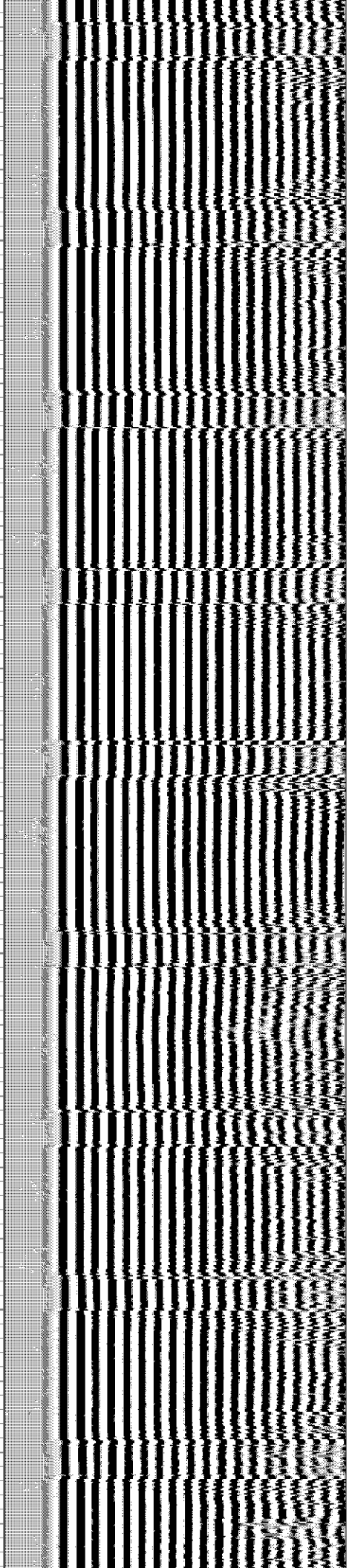
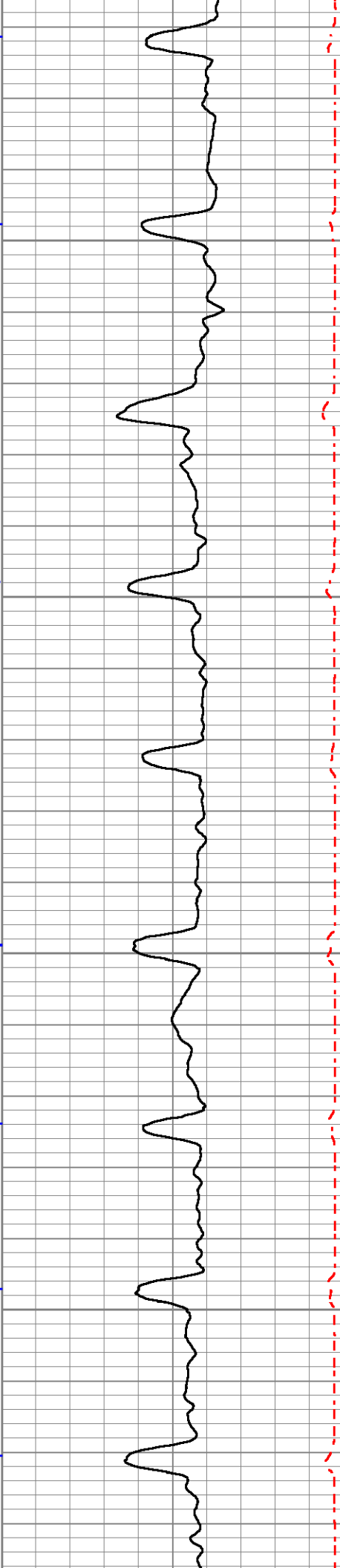
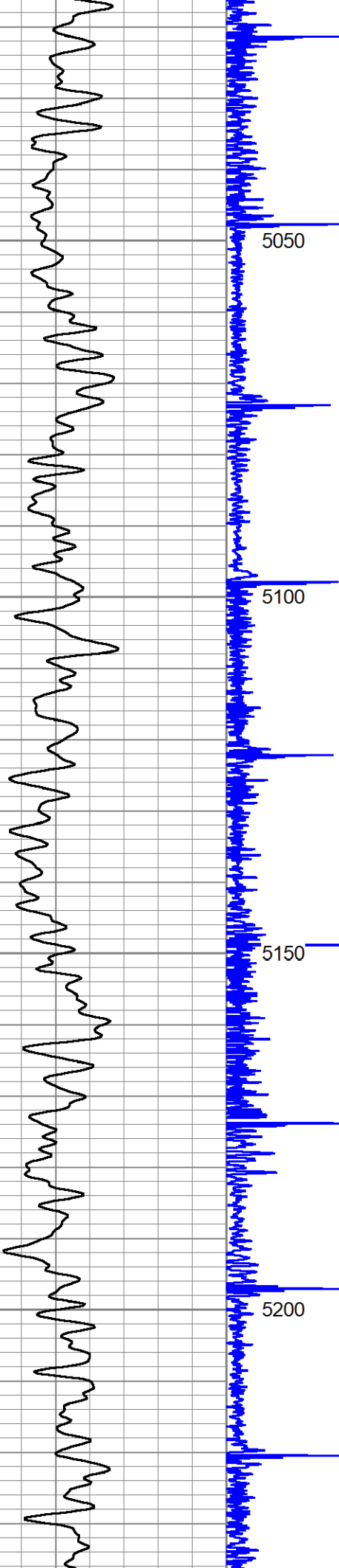
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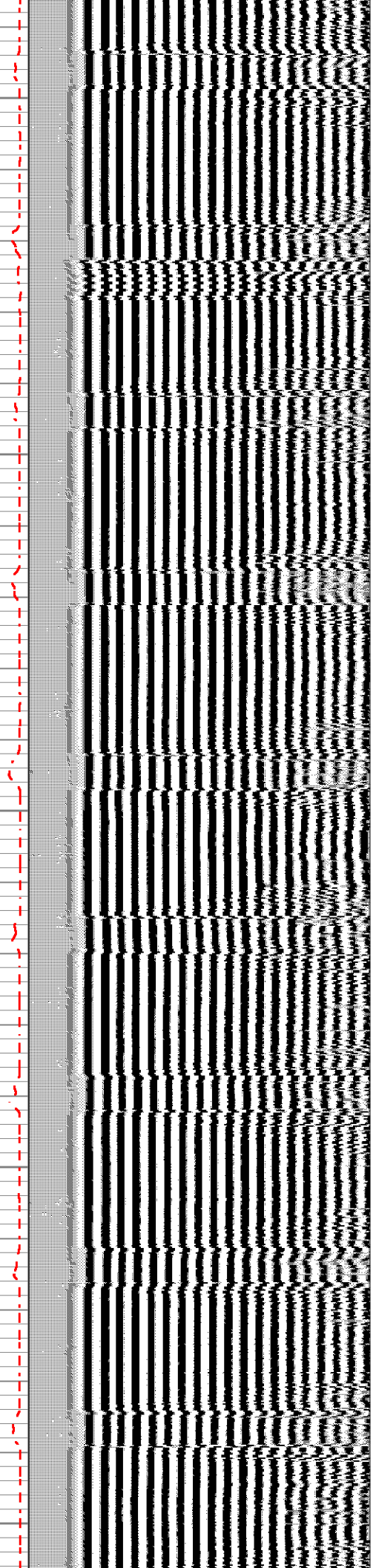
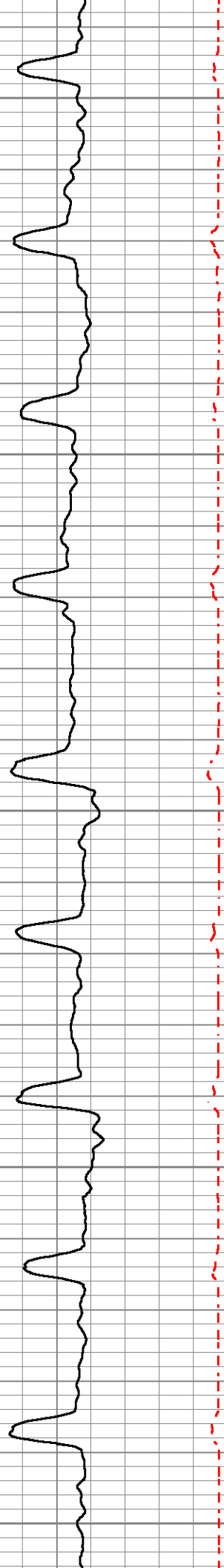
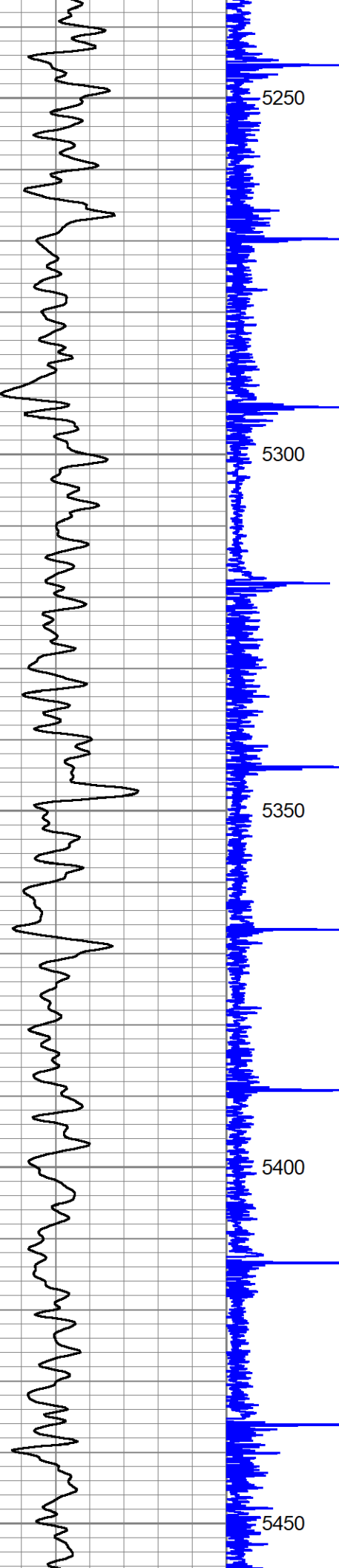
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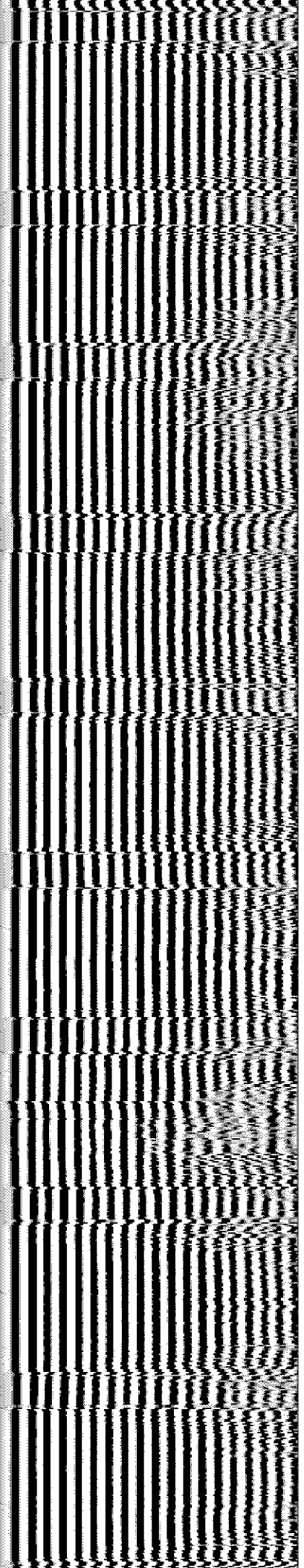
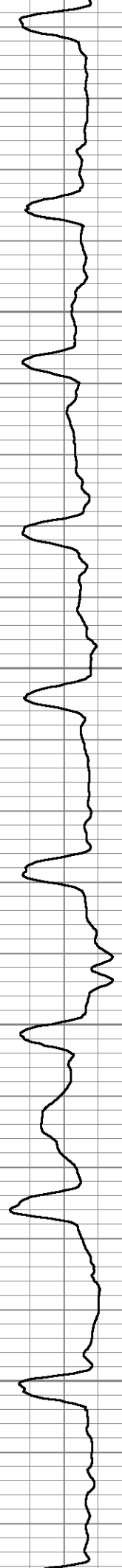


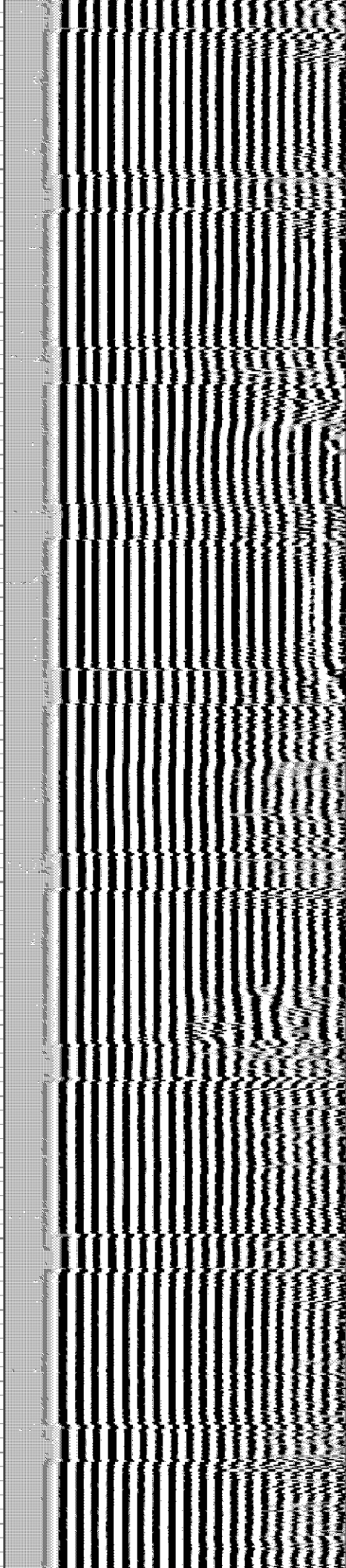
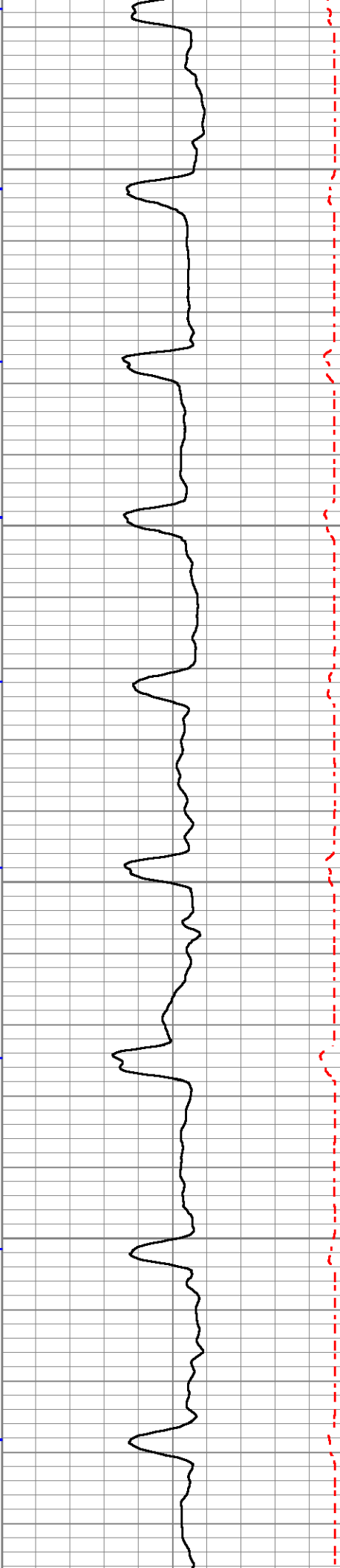
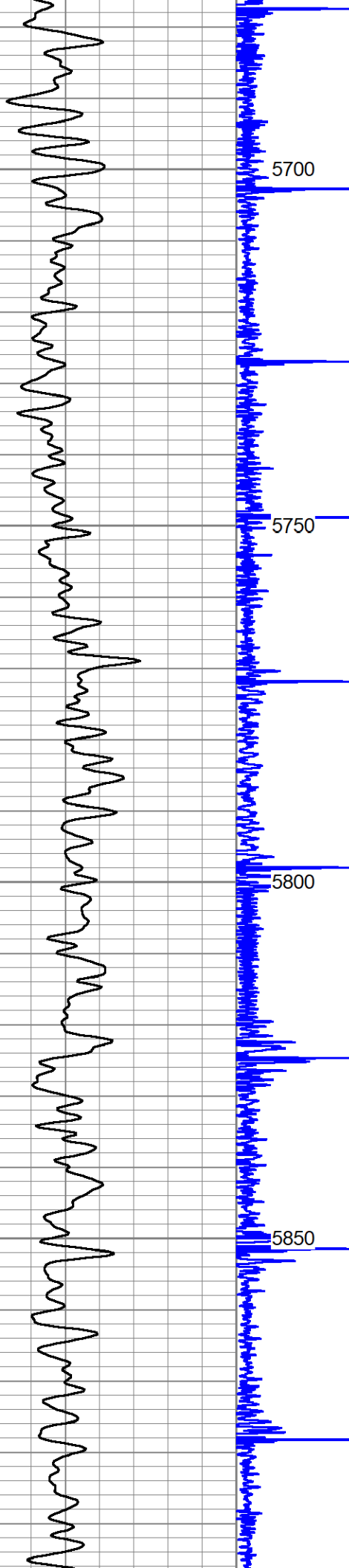


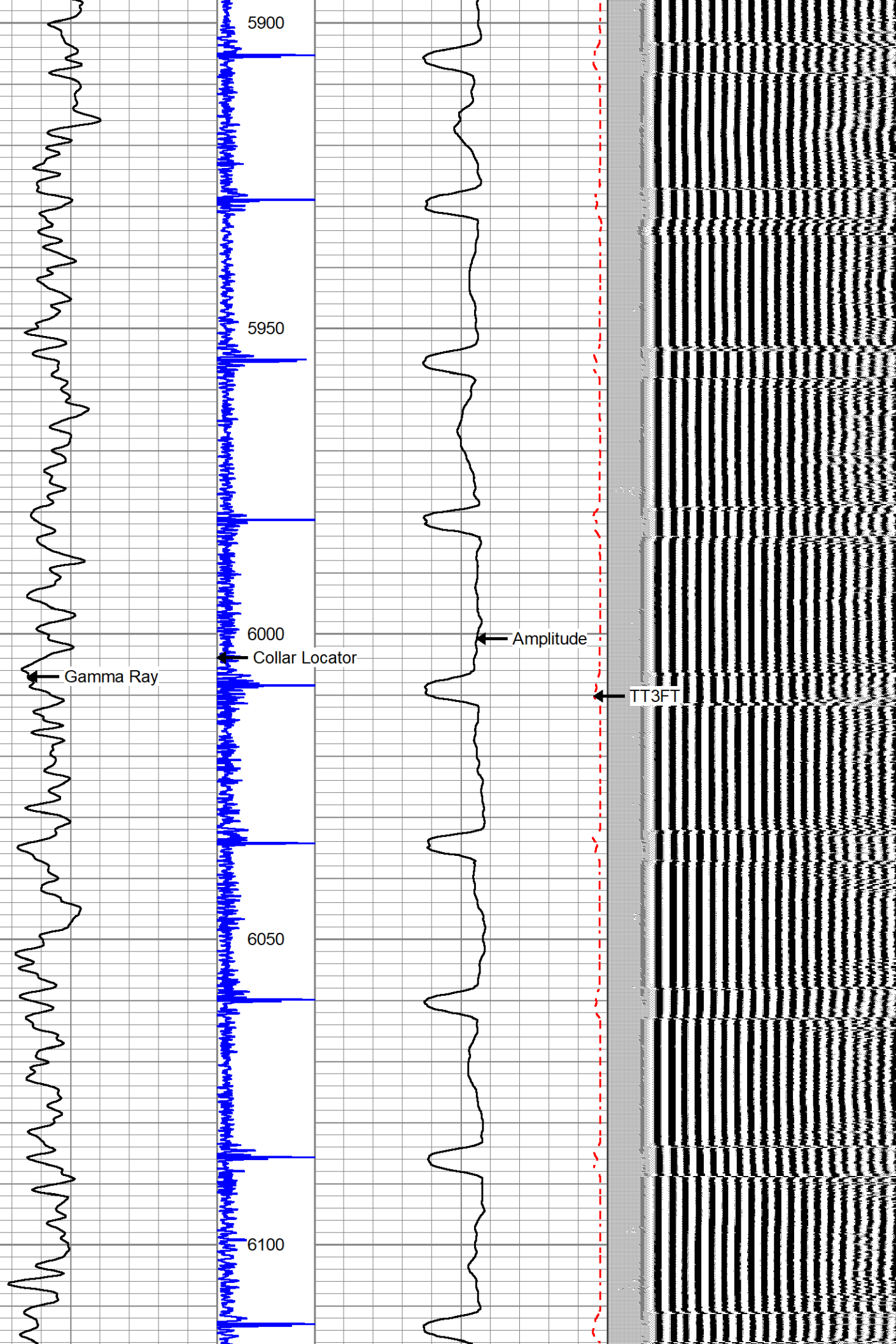




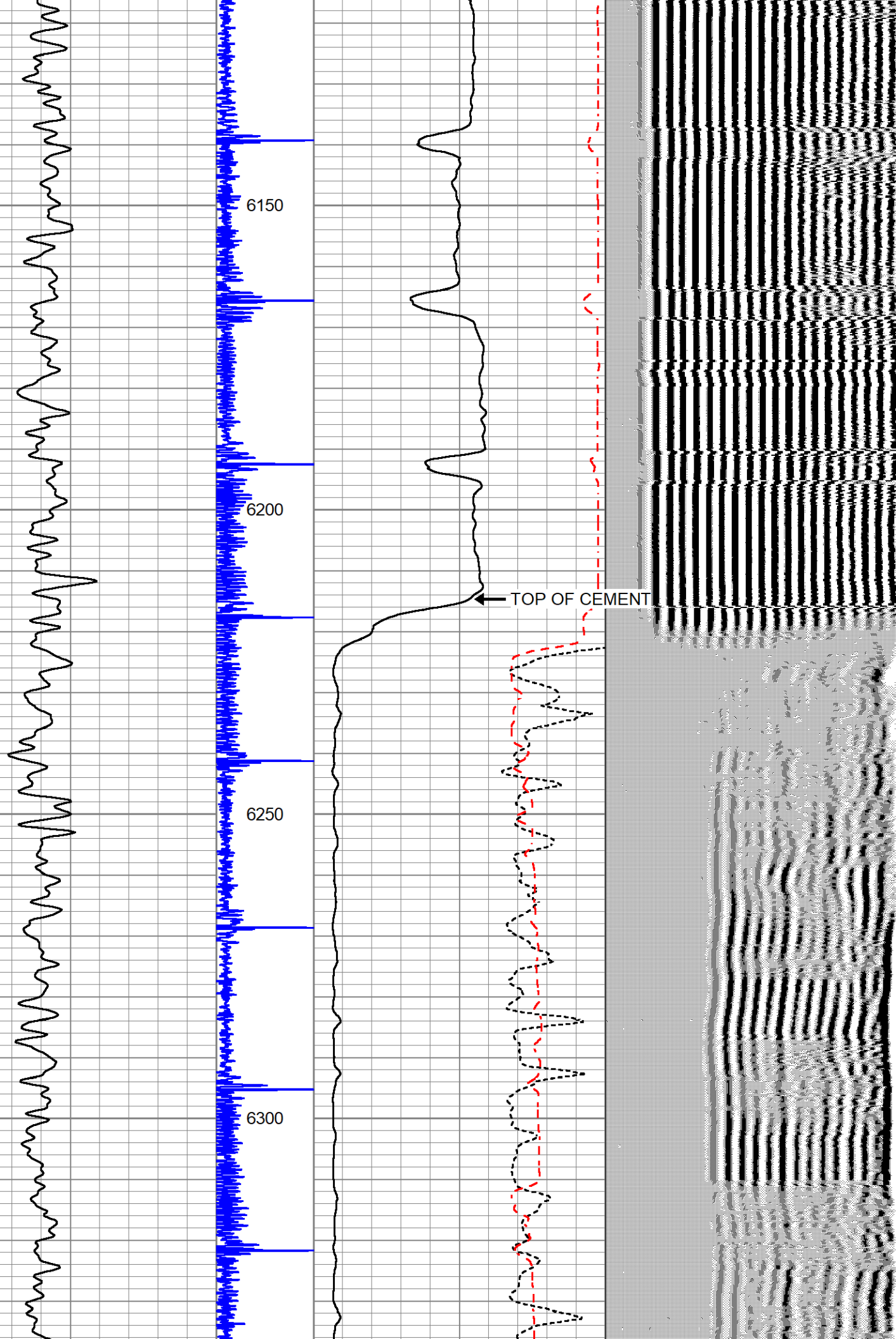


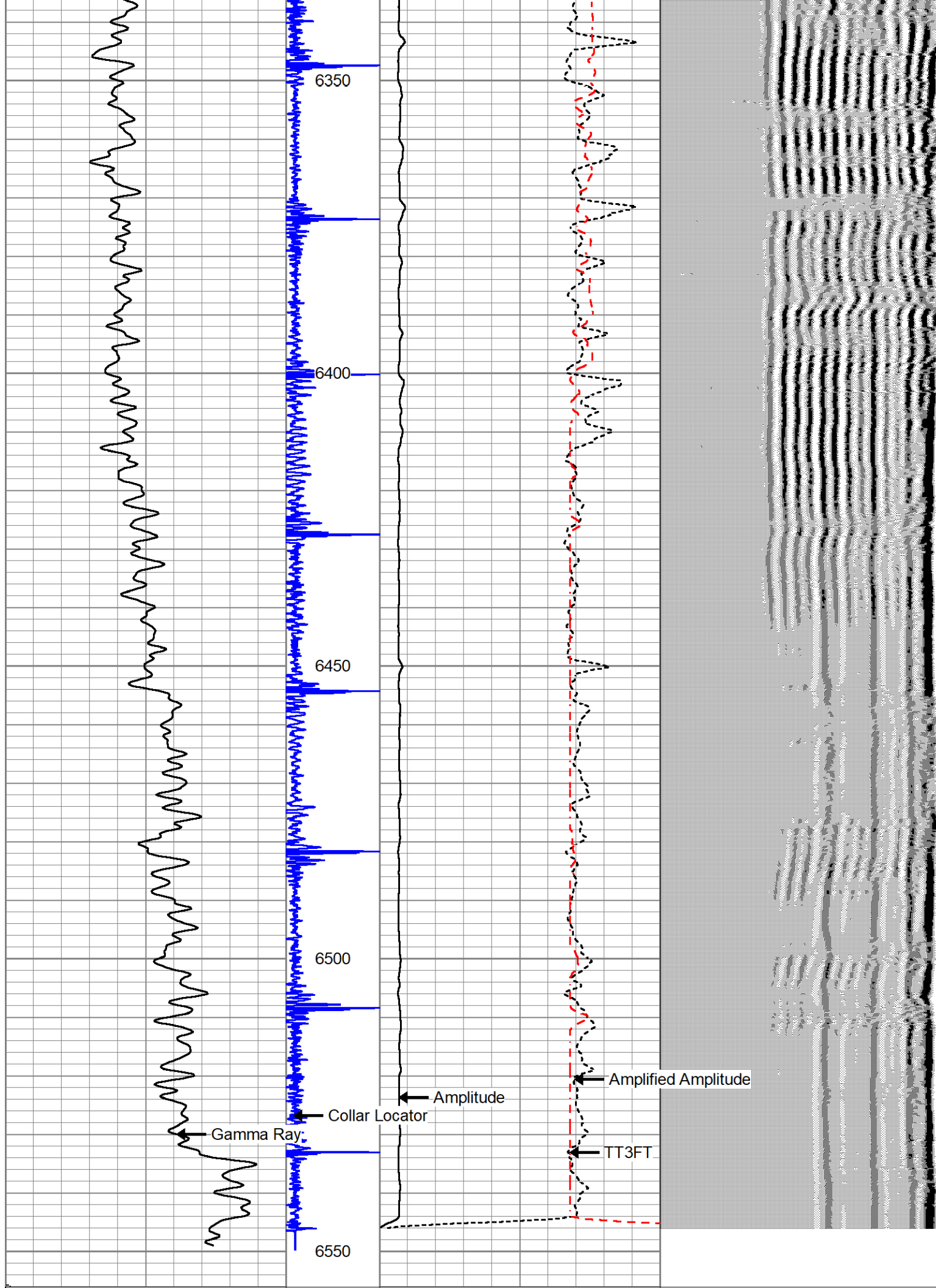














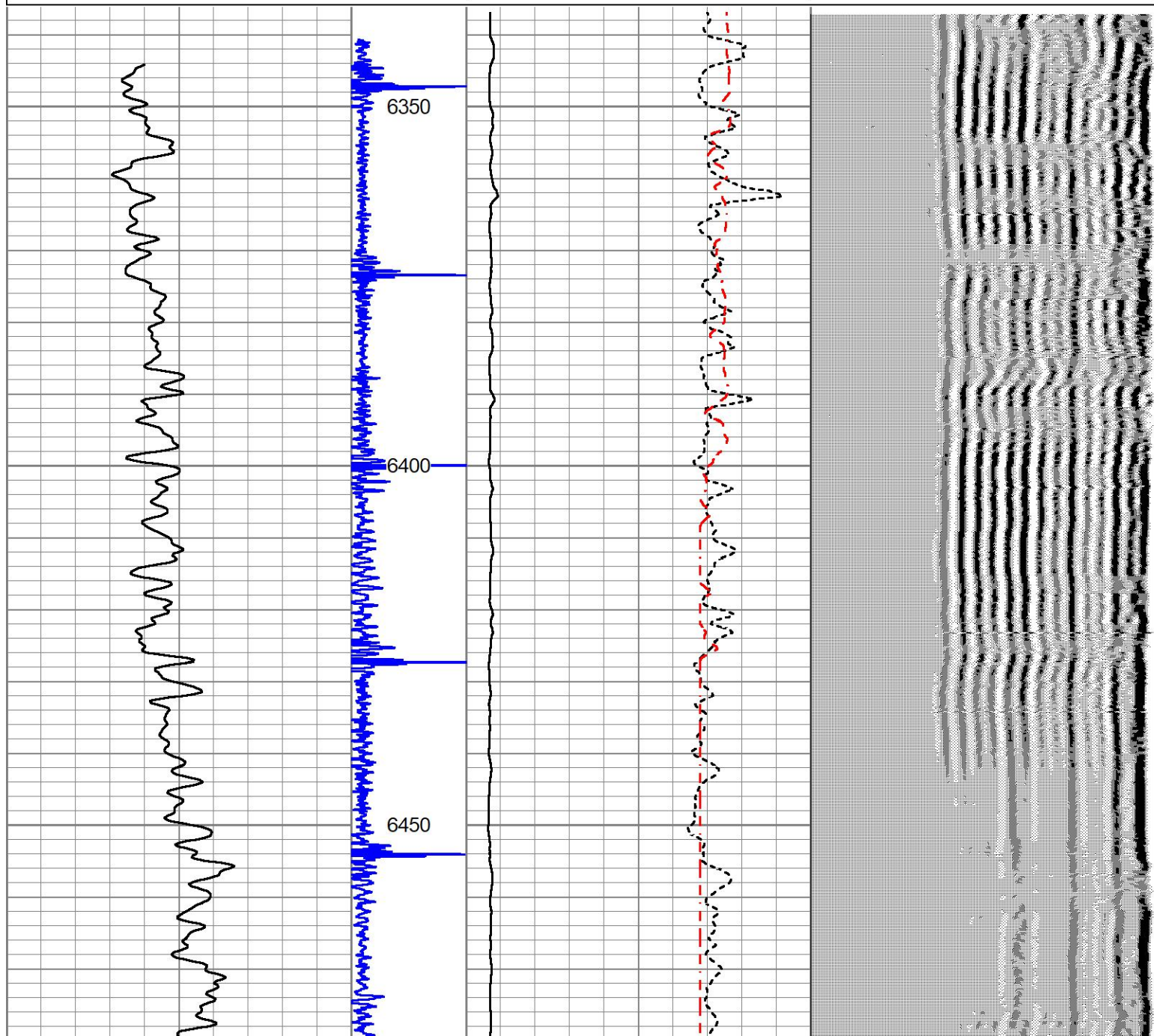
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0	Line Speed (ft/min)	-100	-1	9	0	Amplitude (mV)	100		
					1200	TT3FT (usec)	200		



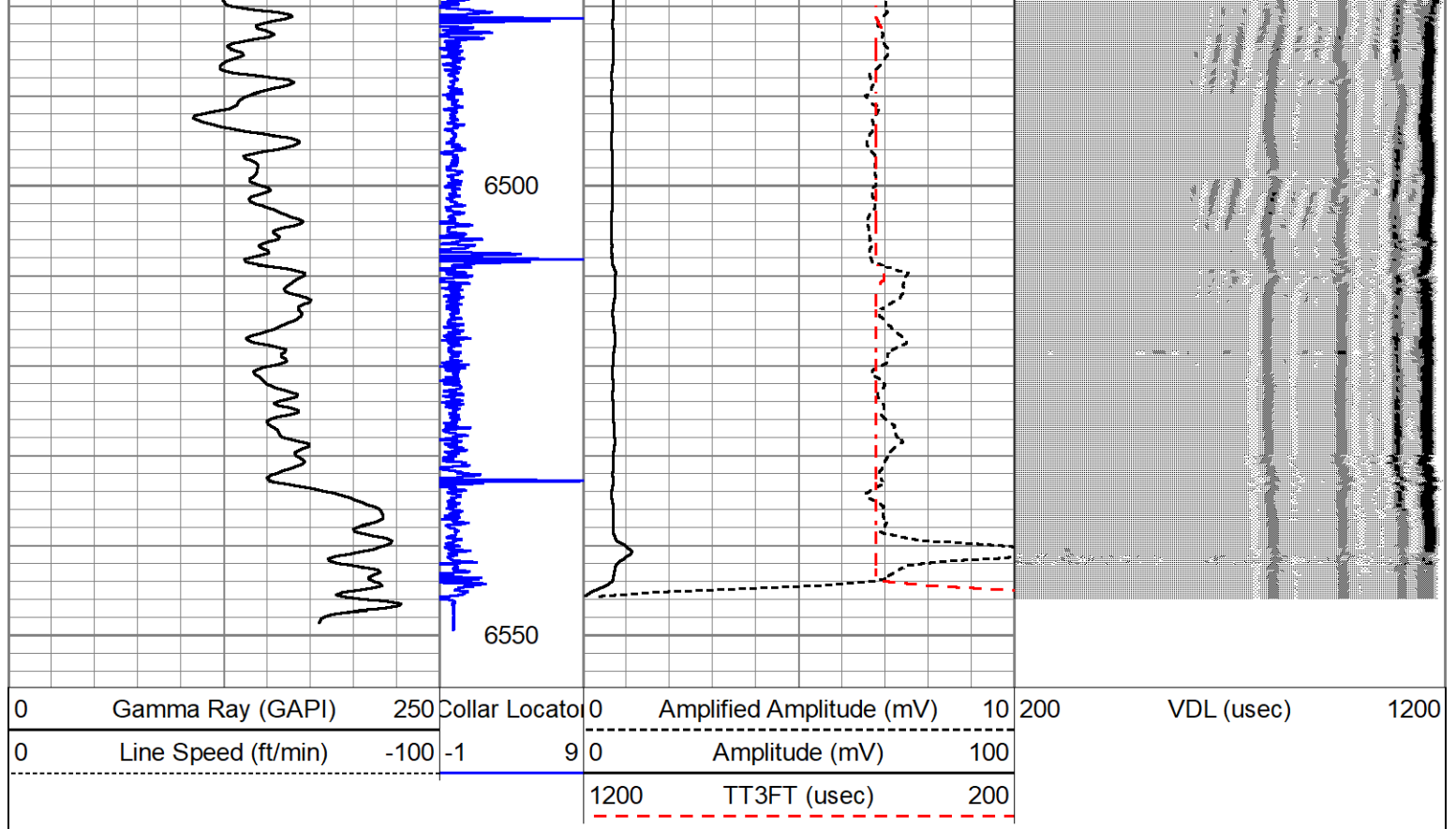
# REPEAT PASS

Database File: chevron webster 14-32 12-16-20 #2.db  
 Dataset Pathname: pass7  
 Presentation Format: cbl\_dr  
 Dataset Creation: Wed Dec 16 15:23:01 2020  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	250	Collar Location	0	Amplified Amplitude (mV)	10	200	VDL (usec)	1200
0	Line Speed (ft/min)	-100	-1	9	0	Amplitude (mV)	100		
					1200	TT3FT (usec)	200		







### Calibration Report

Database File chevron webster 14-32 12-16-20 #2.db  
 Dataset Pathname pass8  
 Dataset Creation Wed Dec 16 15:26:33 2020

### Gamma Ray Calibration Report

Type / Serial: Probe275dig / pr051113

#### SHOP CALIBRATION

Mon Oct 22 13:45:45 2018

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		1.0000			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: 275  
 Tool Model: Probe

Tool Model: Probe  
 Calibration Casing Diameter: 4.500 in  
 Calibration Depth: 2260.383 ft

Master Calibration, performed Wed Dec 16 15:00:51 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	1.003	0.450	81.196	80.913	0.005
CAL						
5'	0.033	0.580	0.450	81.196	147.541	-4.447
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed Thu Sep 03 12:21:26 2020:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

## Log Variables

DatabaseC:\ProgramData\Warrior\Data\chevron webster 14-32 12-16-20 #2.db  
 Dataset field/well/run1/pass8/\_vars\_

### Top - Bottom


BOREID in 7.875	BOTTEMP degF 100	CASEOD in 4.5	CASETHCK in 0	CASEWGHT lb/ft 15.1	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.8
PERFS No	PPT usec 0	SRFTEMP degF 0	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)
			CS6CENT-CSSROLLER	2.20	1.69	4.41
WVF3FT	10.97		CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.75	3.13	60.00
WVF5FT	9.97					
WVFSYNC	6.78					
HEADVOLT	6.78					
CCL	6.12					
GR	4.74		GR-Probe275dig (pr051113) Probe Digital Gamma CCL	4.58	3.13	57.00
			CS6CENT-CSSROLLER	2.20	1.69	4.41



					
<p>Dataset: chevron webster 14-32 12-16-20 #2.db: field/well/run1/pass8 Total length: 17.73 ft Total weight: 145.82 lb O.D.: 3.13 in</p>					