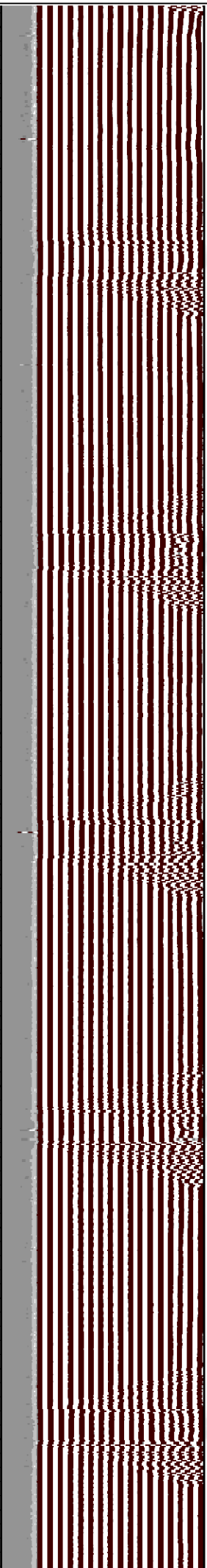
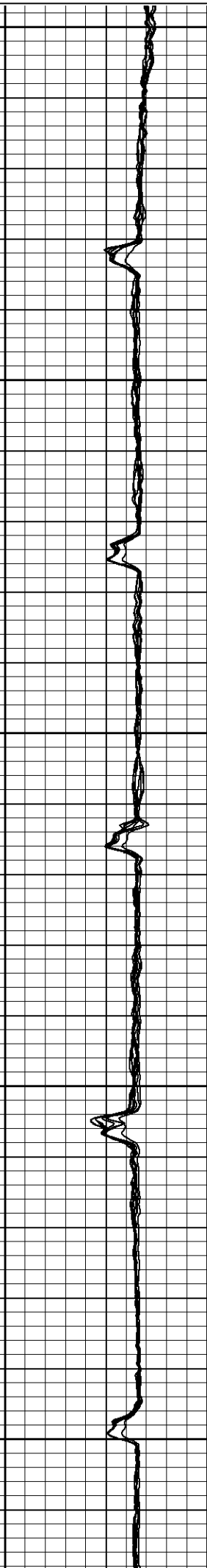
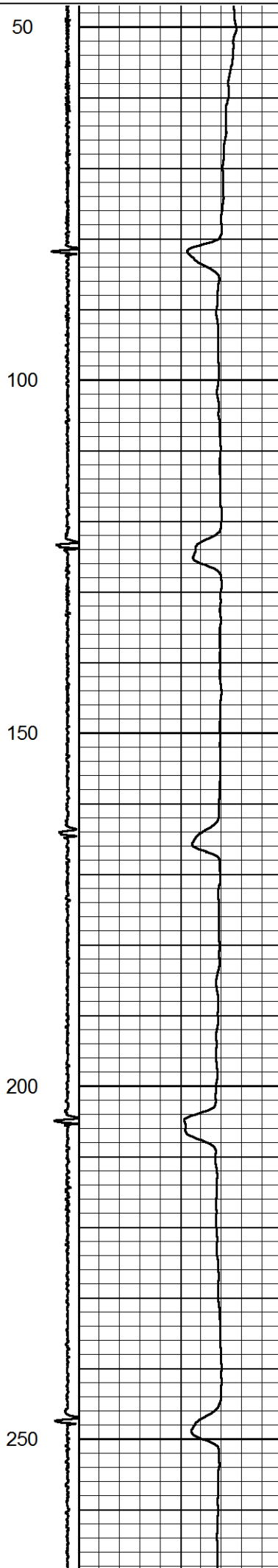
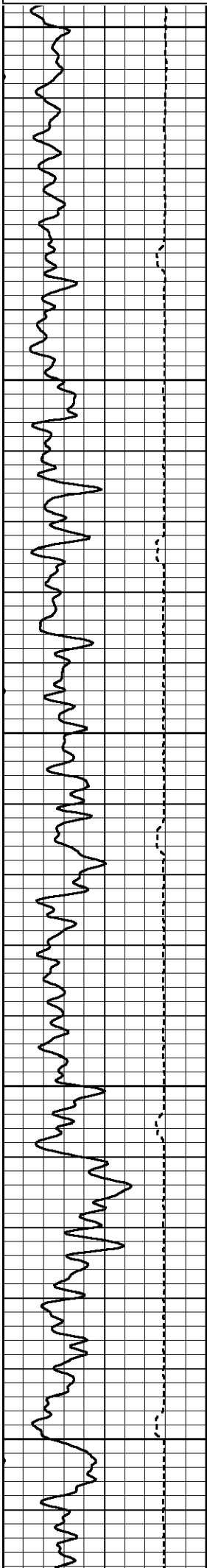
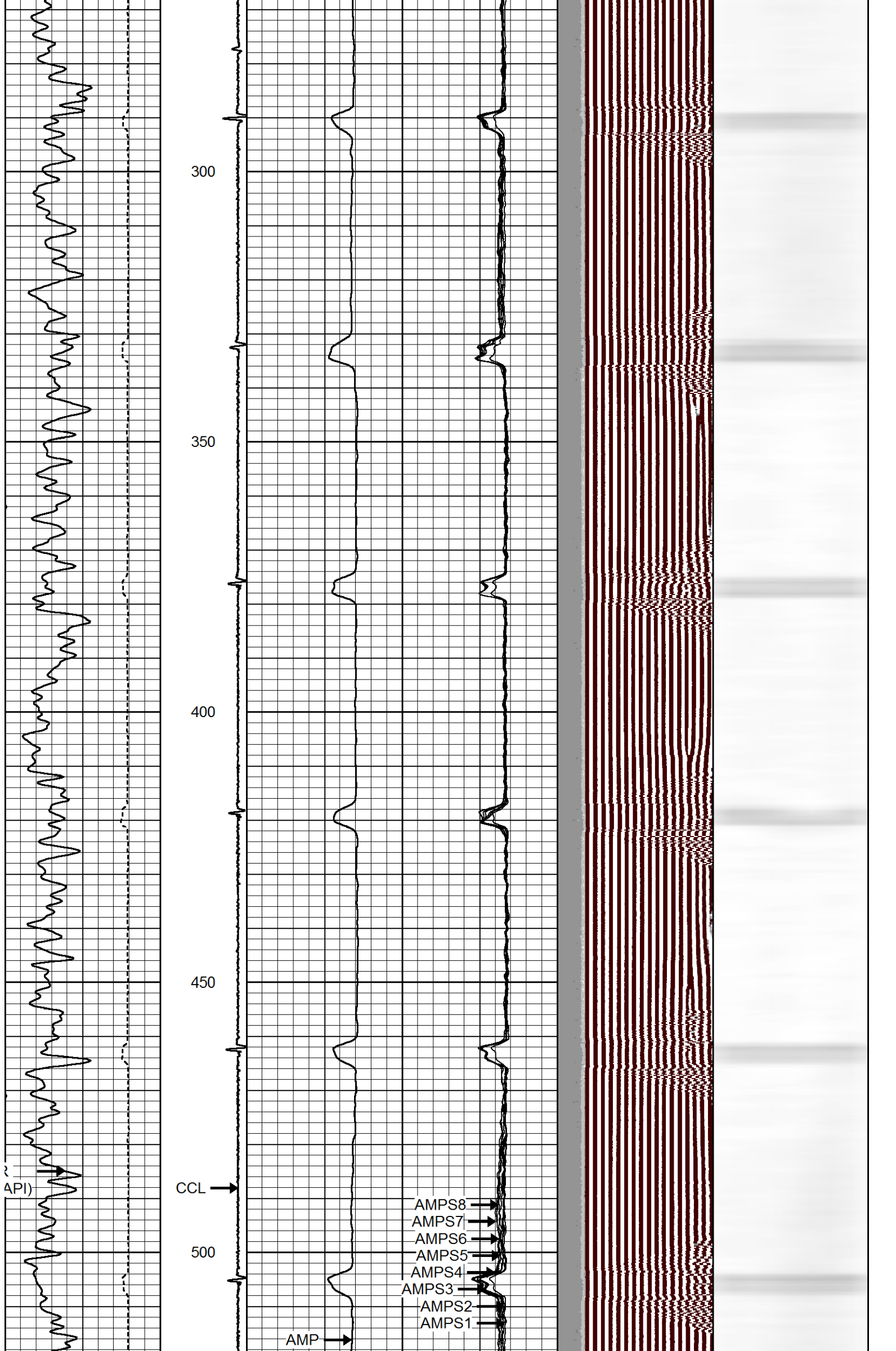


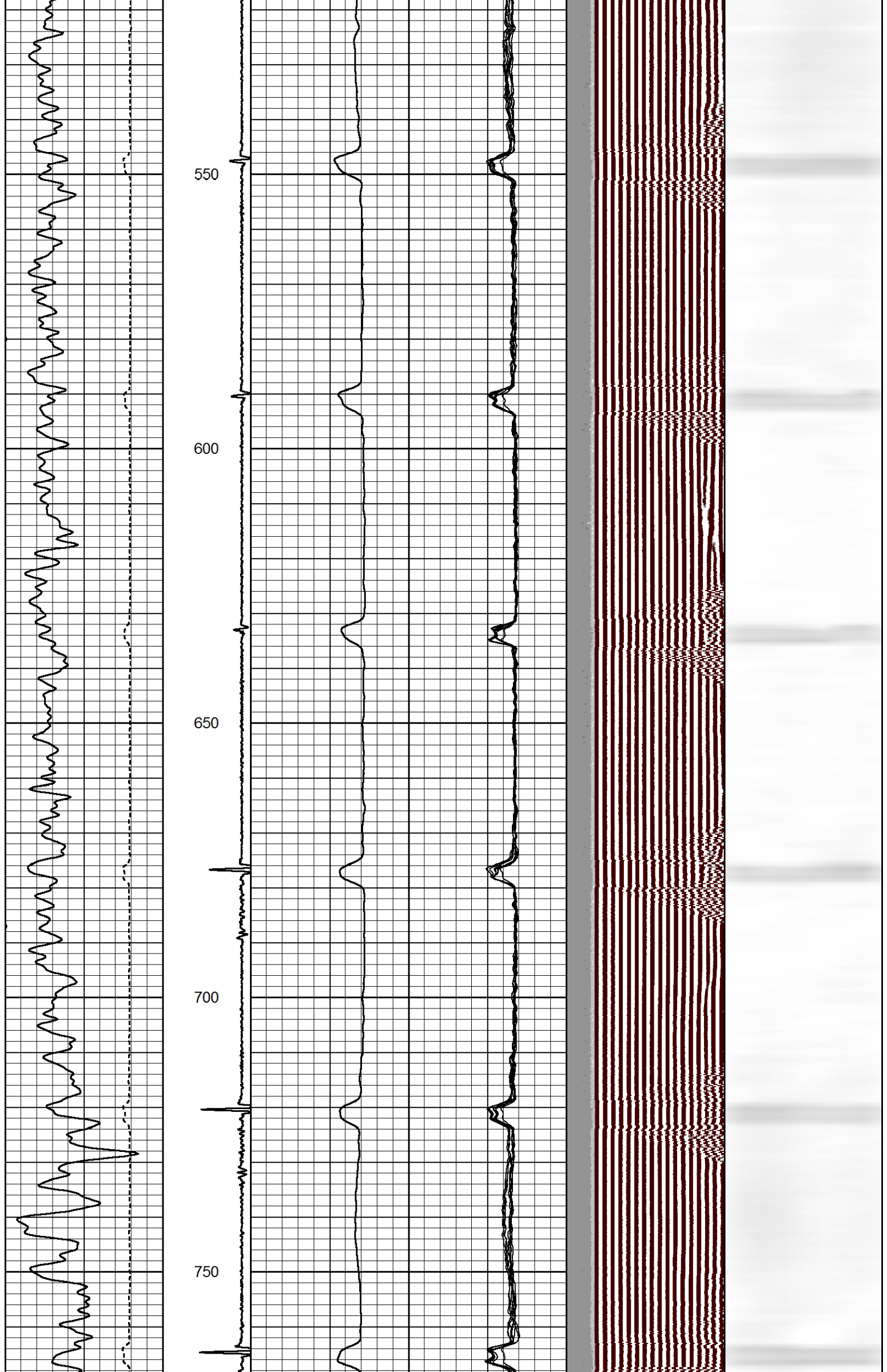
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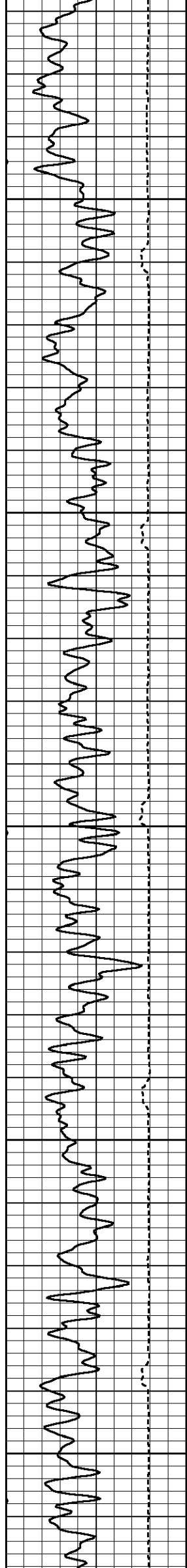
0 MINMK 100

-5	AMPS3	150
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-5	AMPS5	150
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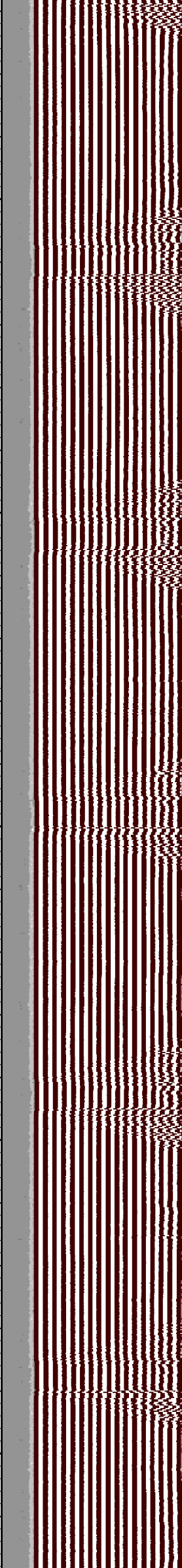
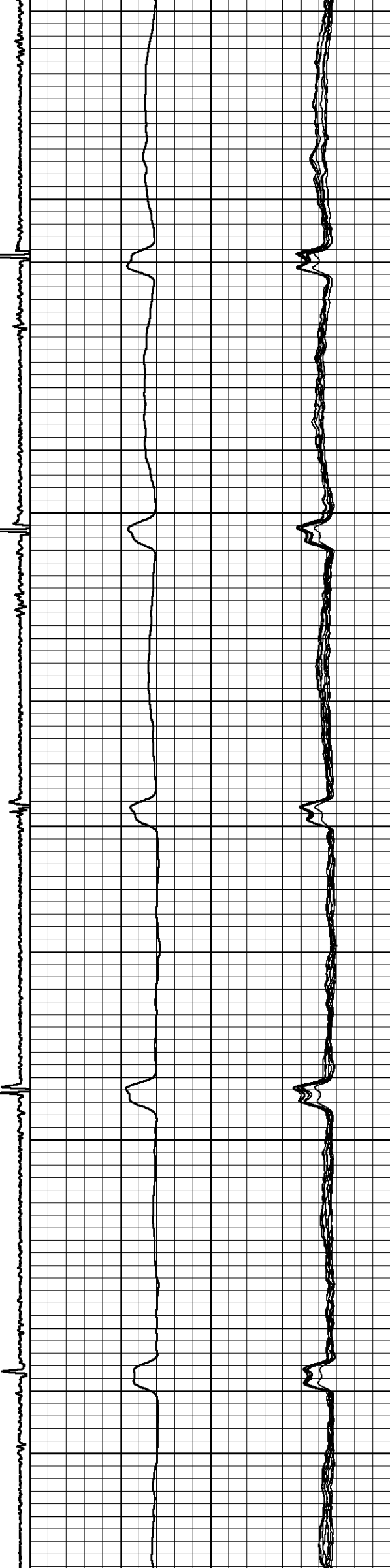
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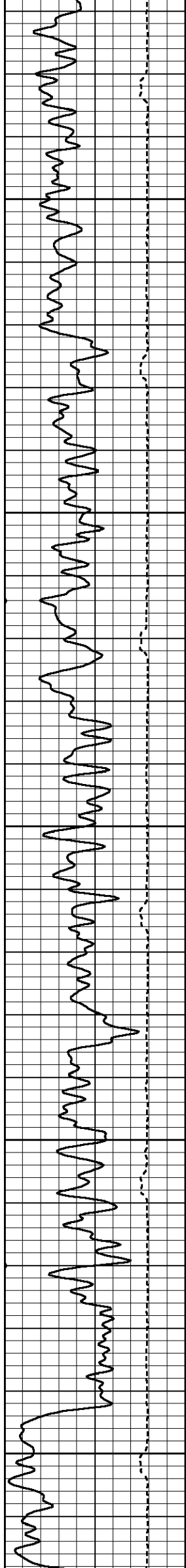
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950

1000





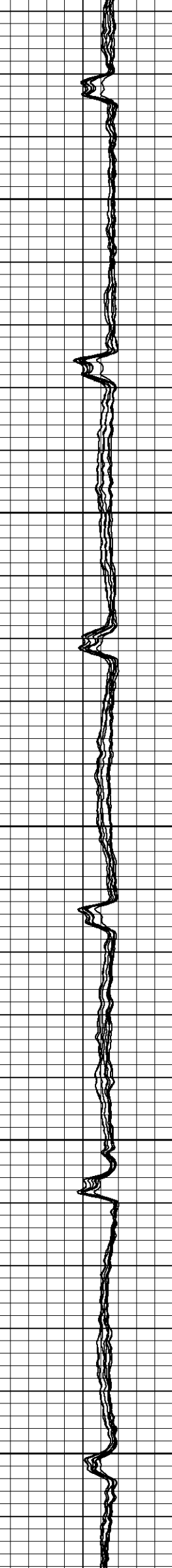
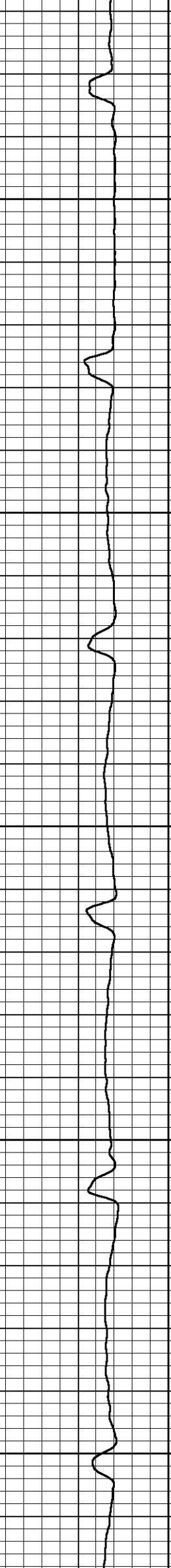
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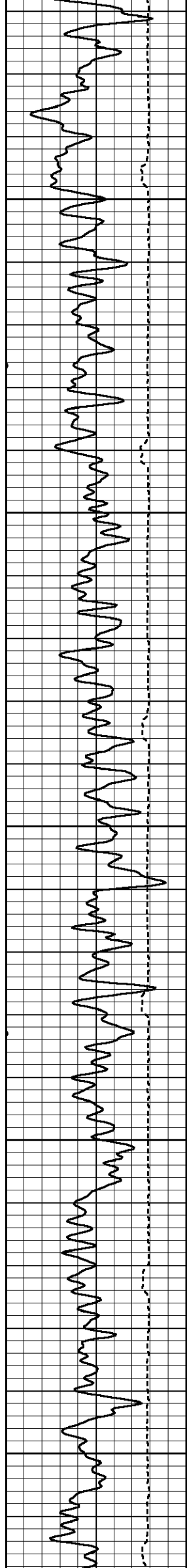
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1150

1200

1250





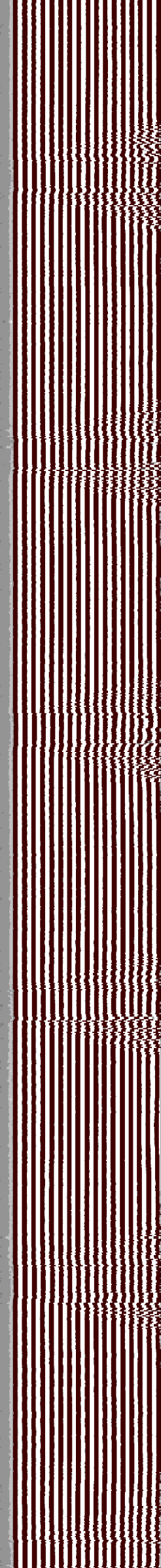
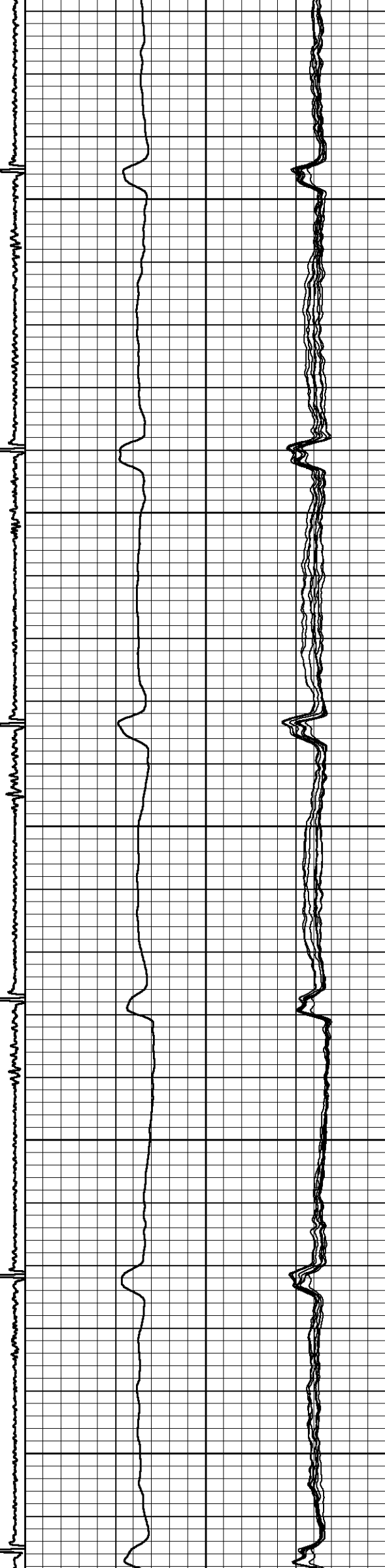
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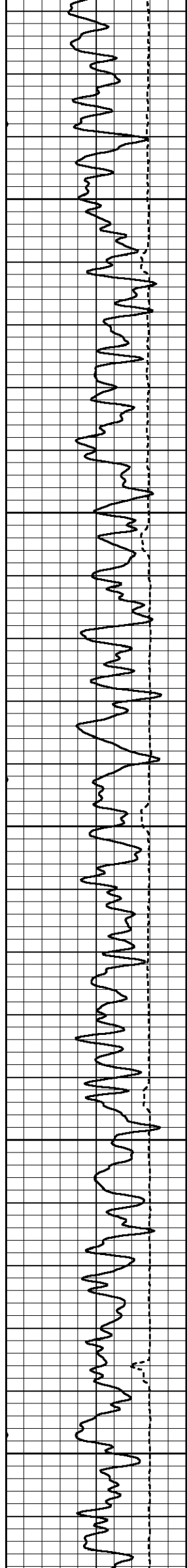
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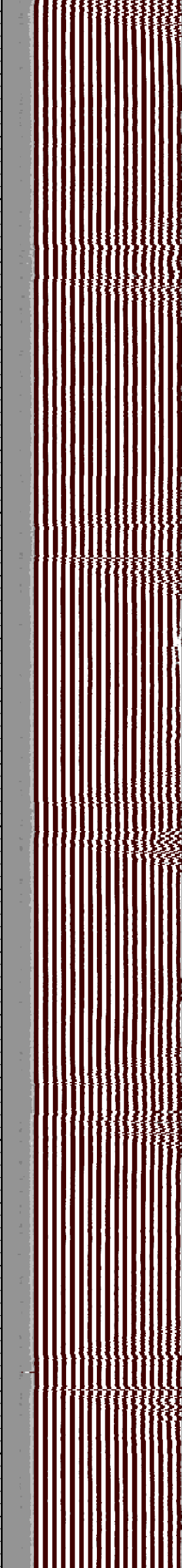
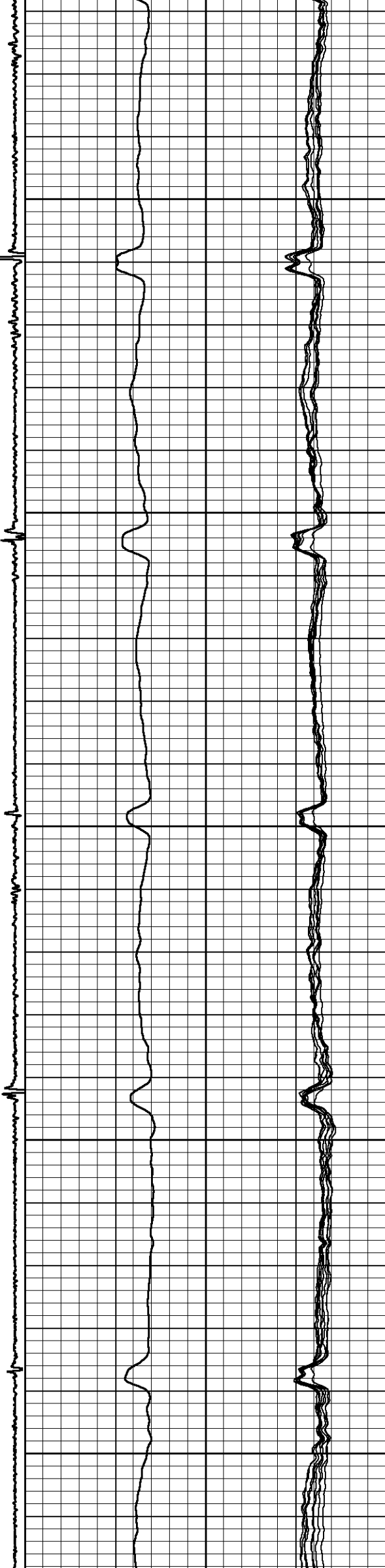
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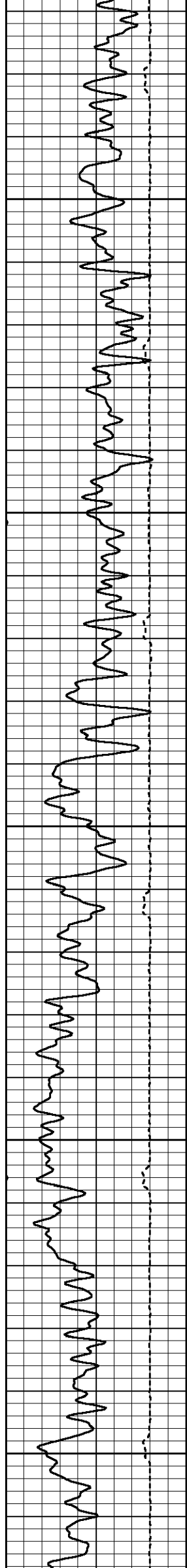
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1650

1700

1750





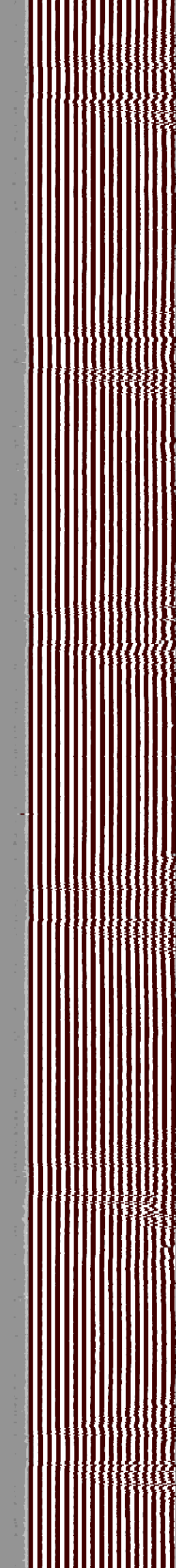
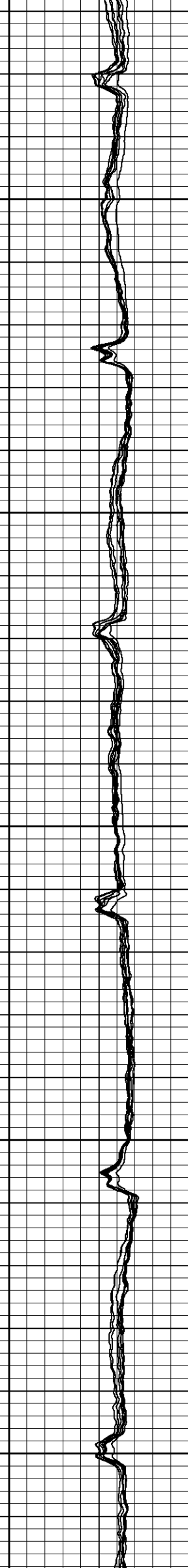
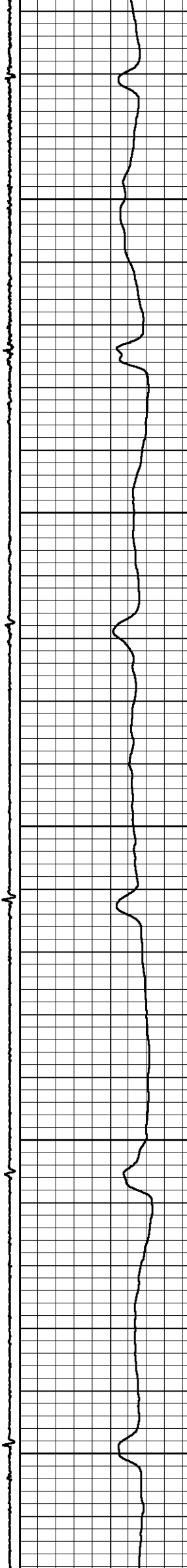
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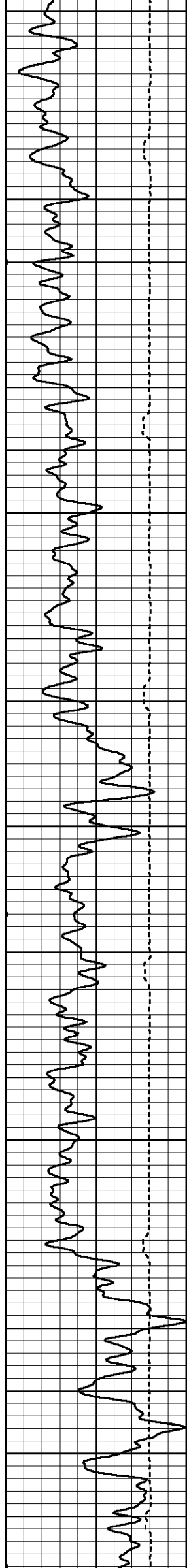
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1900

1950

2000





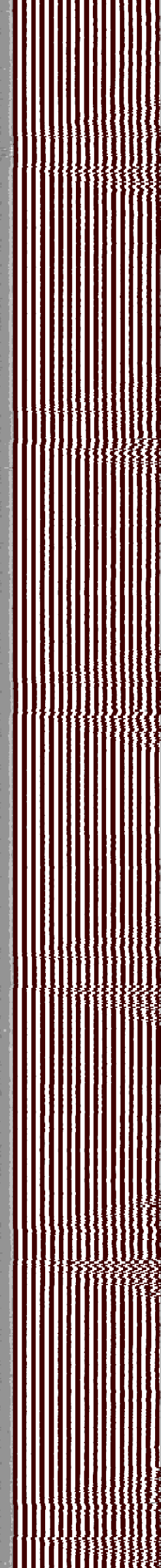
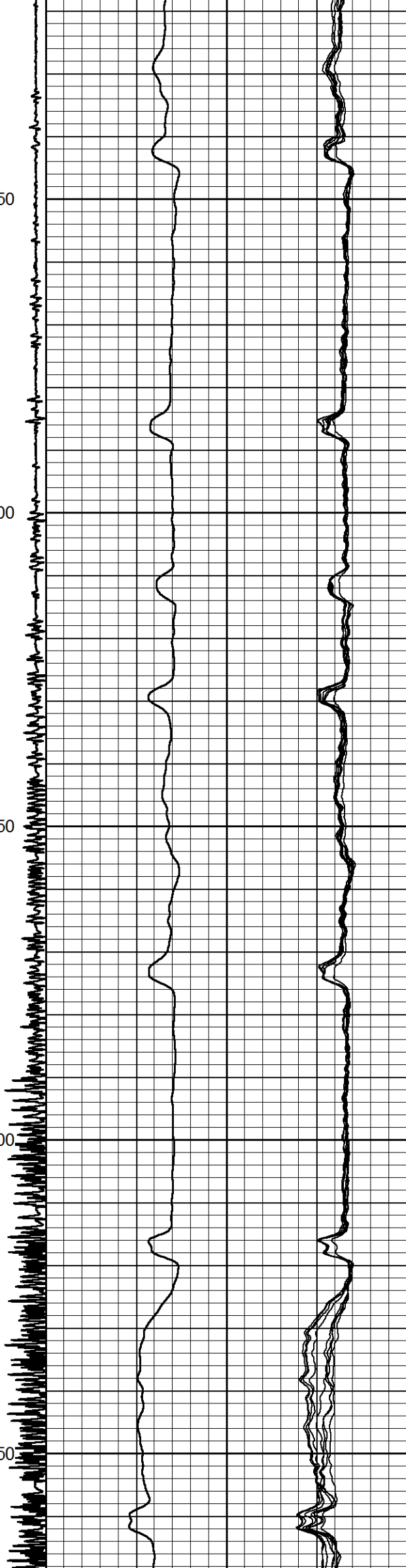
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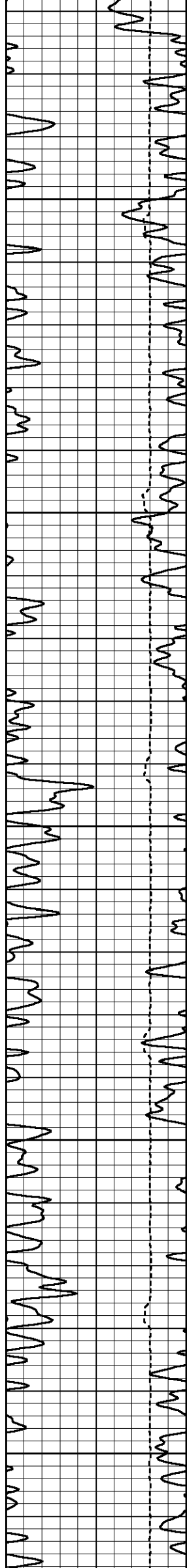
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2150

2200

2250





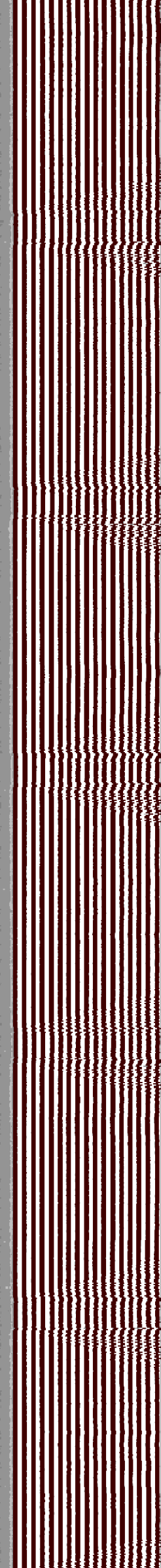
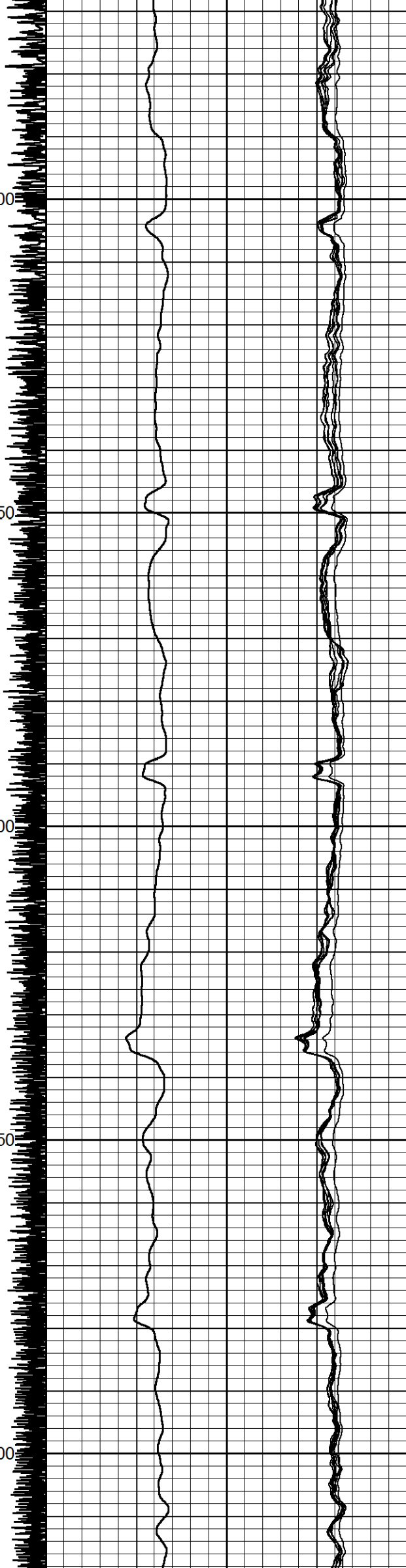
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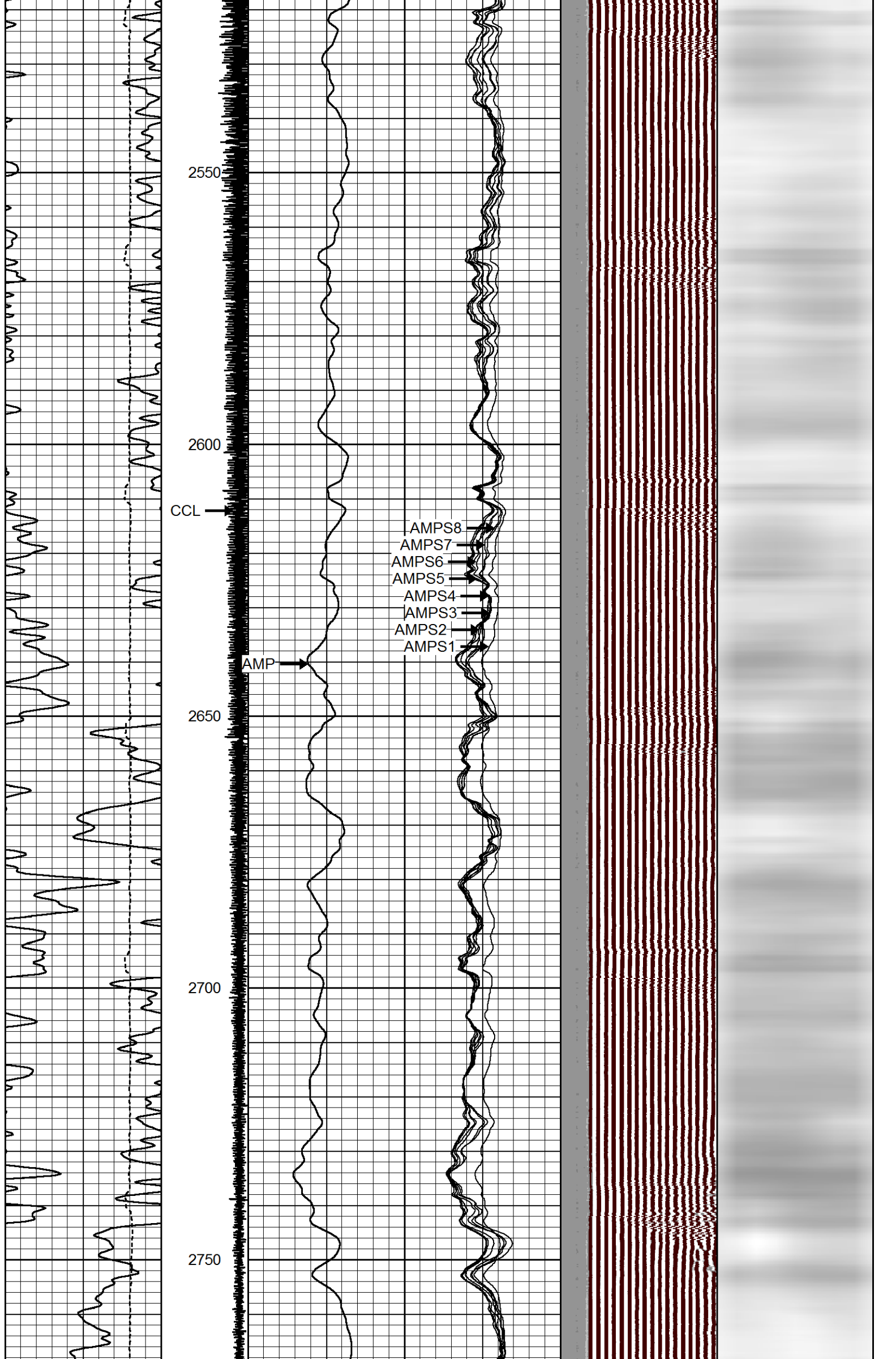
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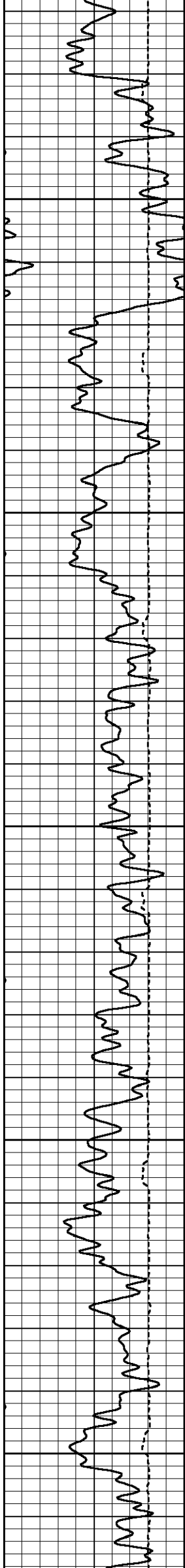
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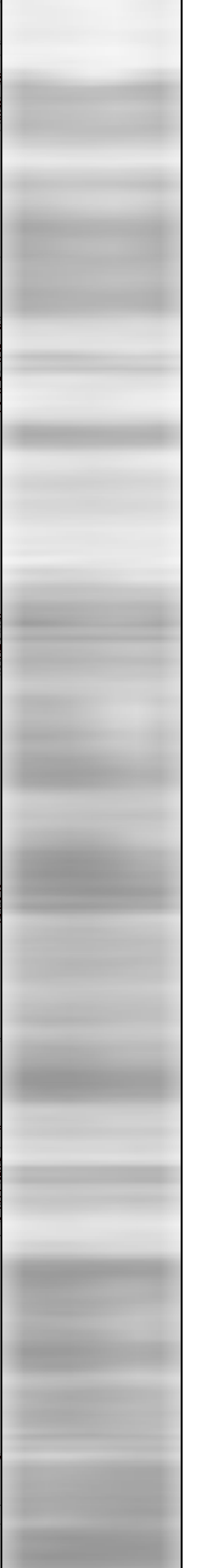
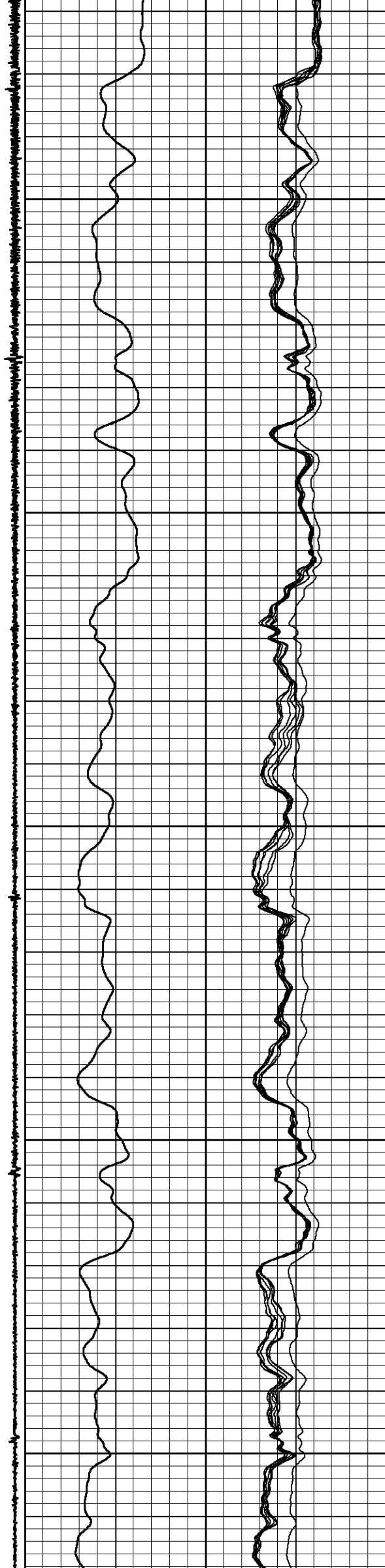
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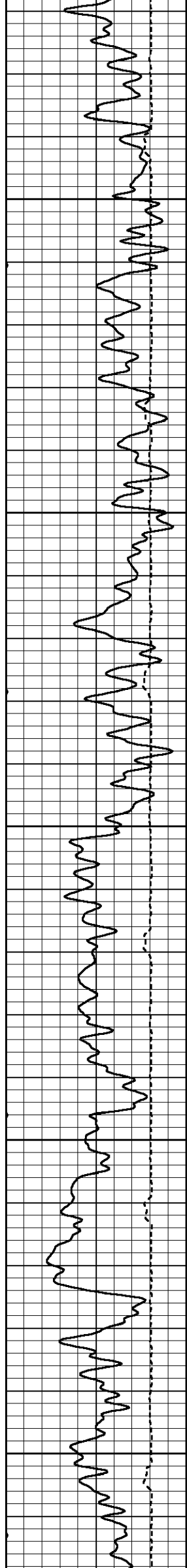
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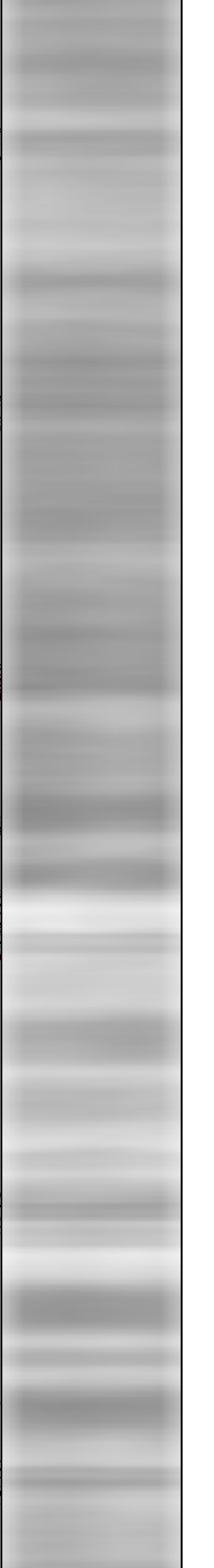
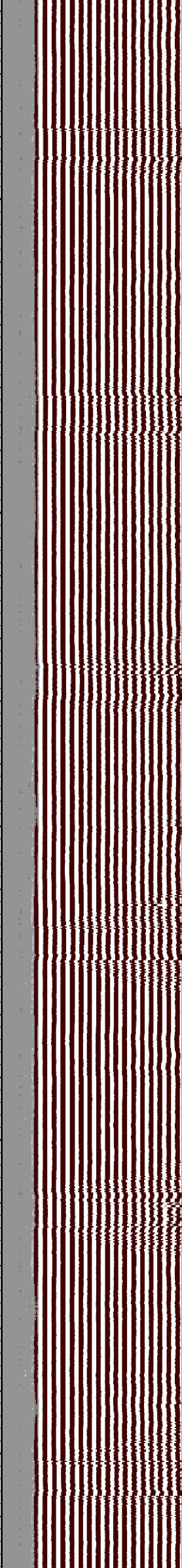
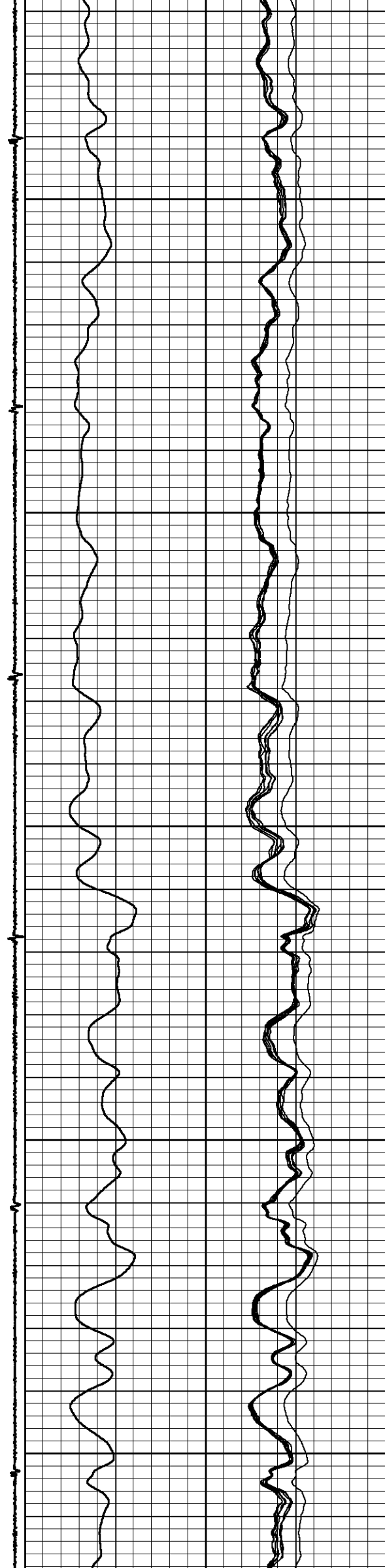
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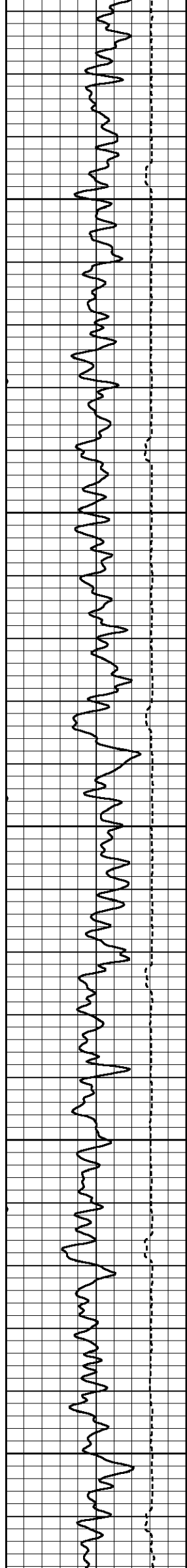
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3050
3100
3150
3200
3250





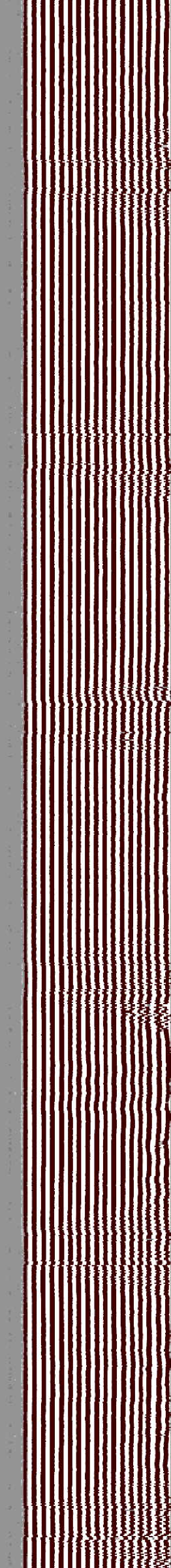
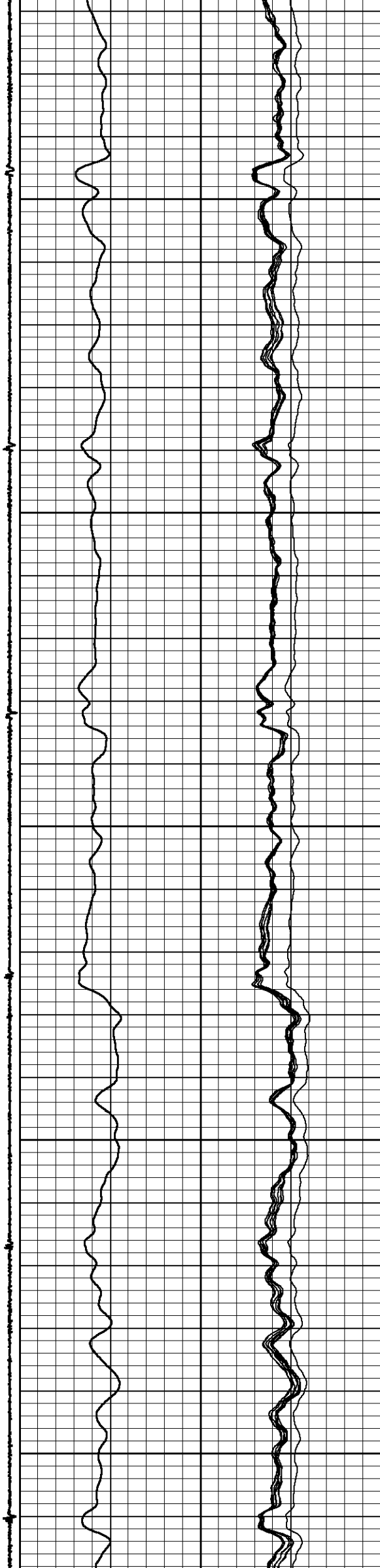
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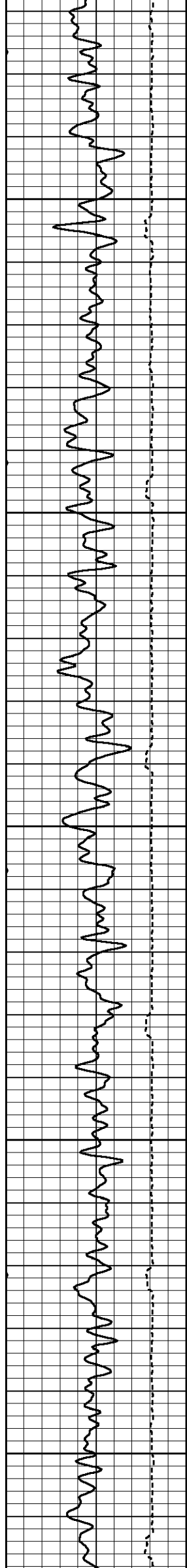
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3500





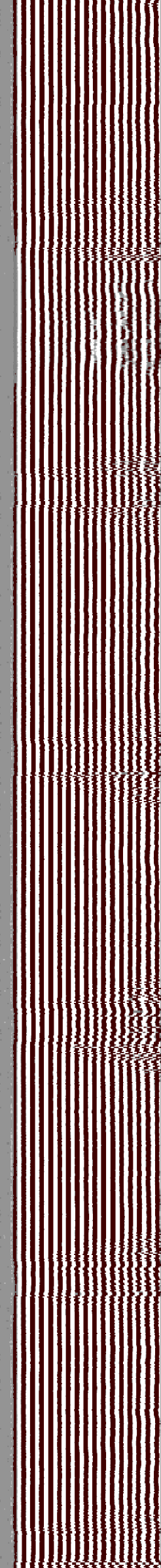
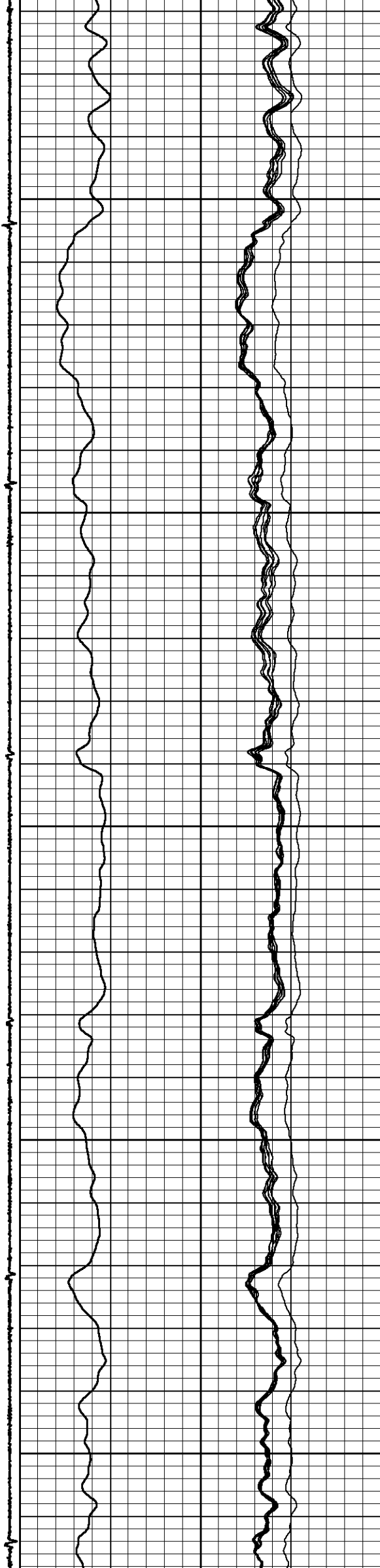
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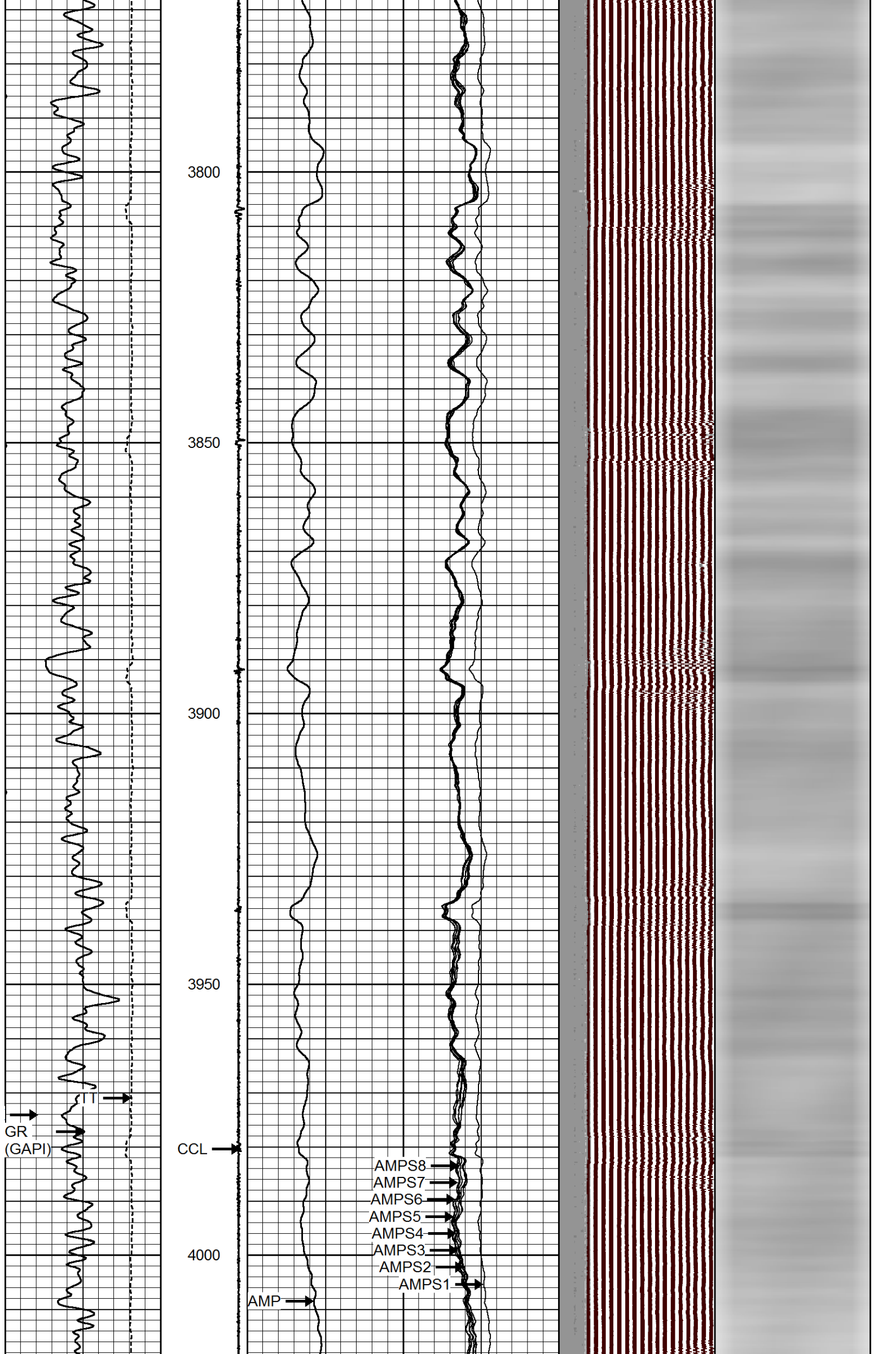
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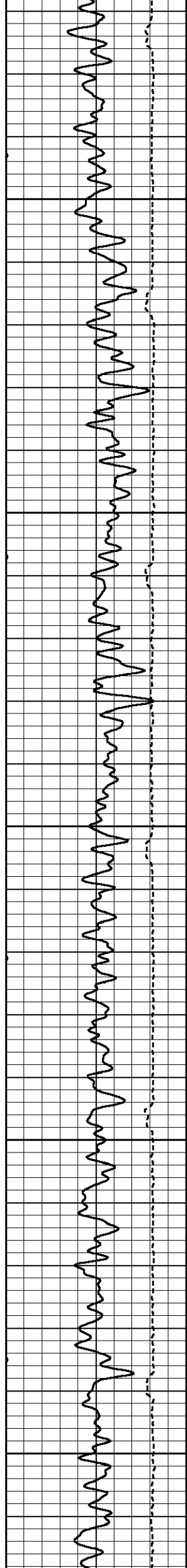
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3750







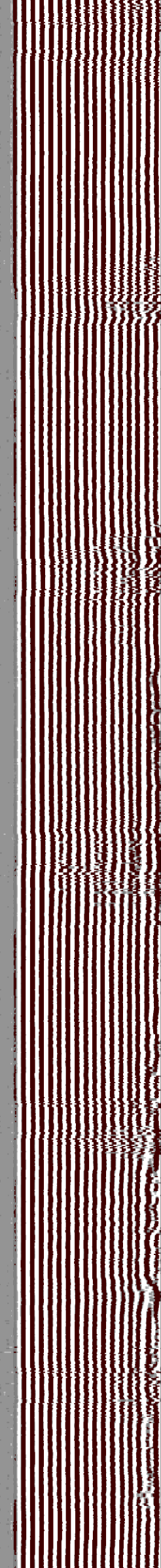
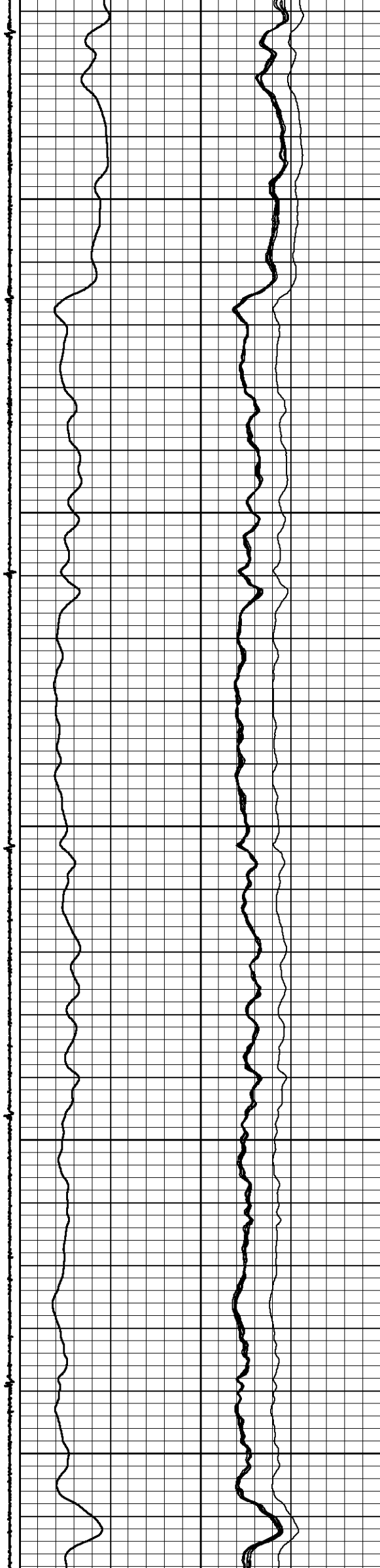
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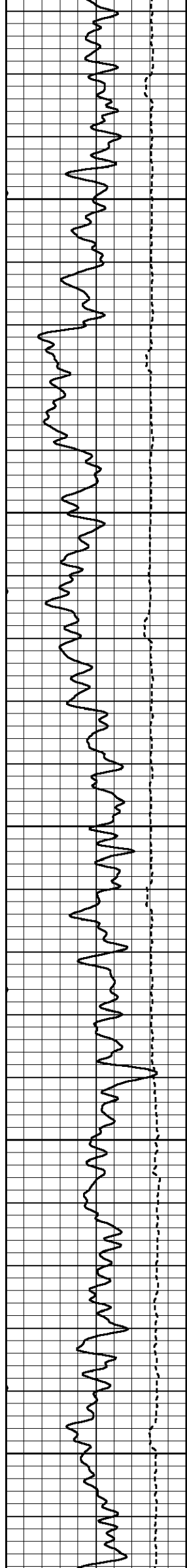
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4150

4200

4250





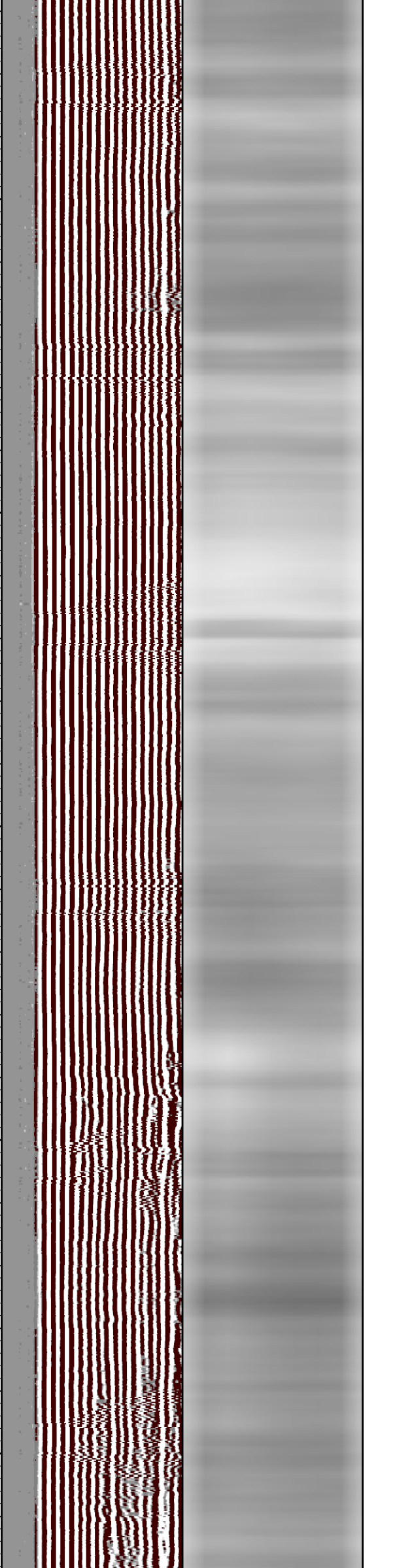
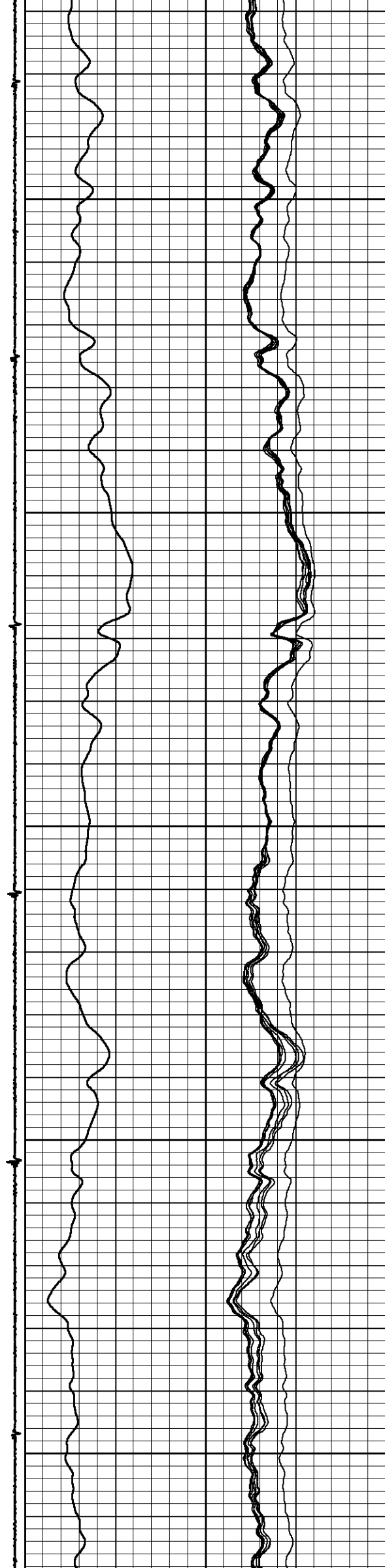
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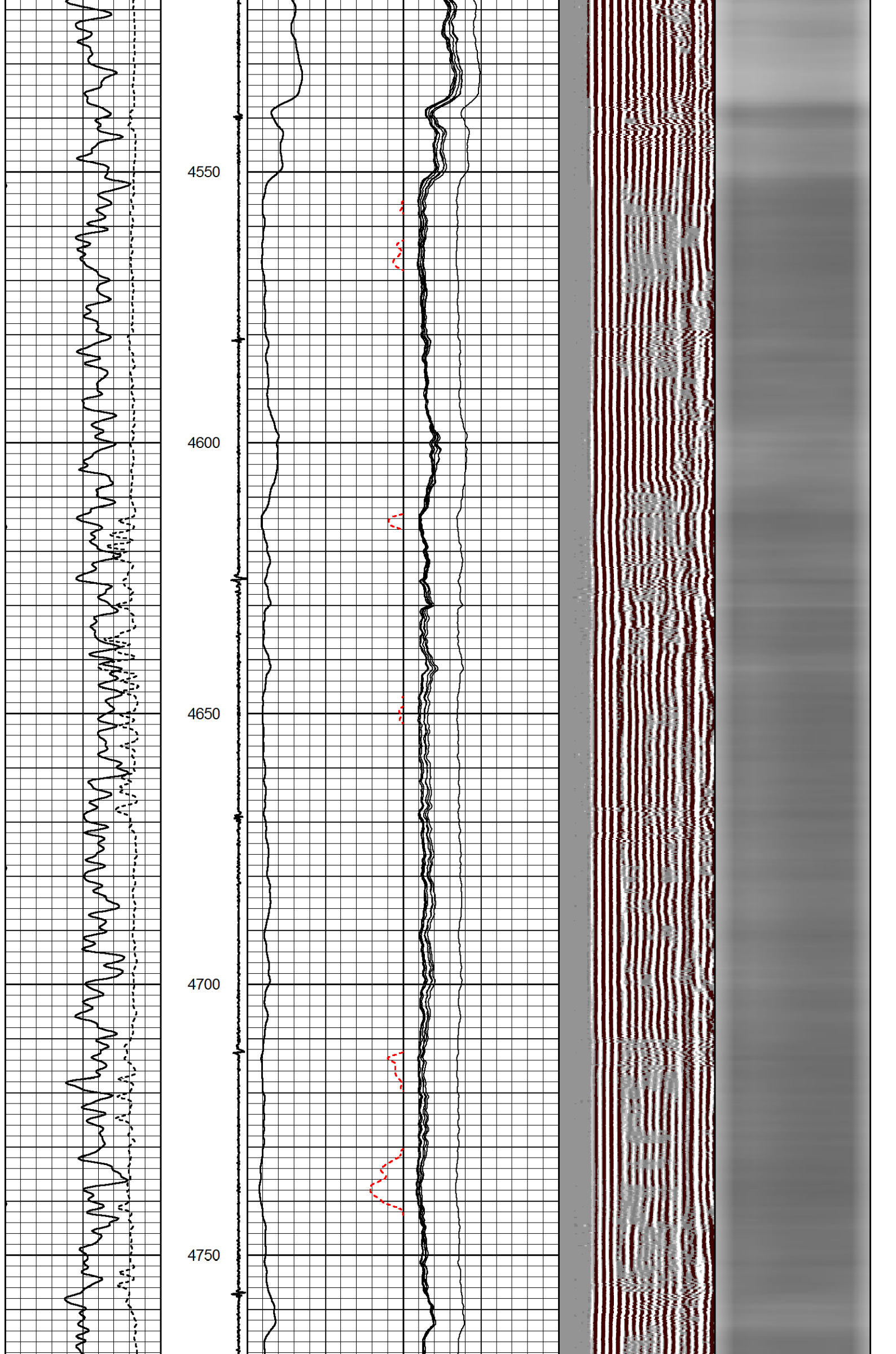
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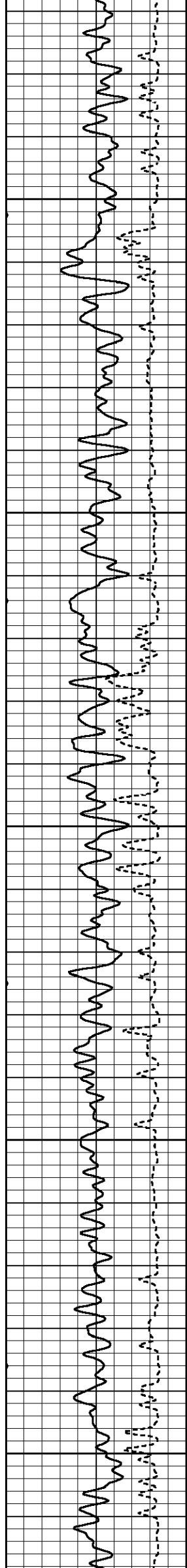
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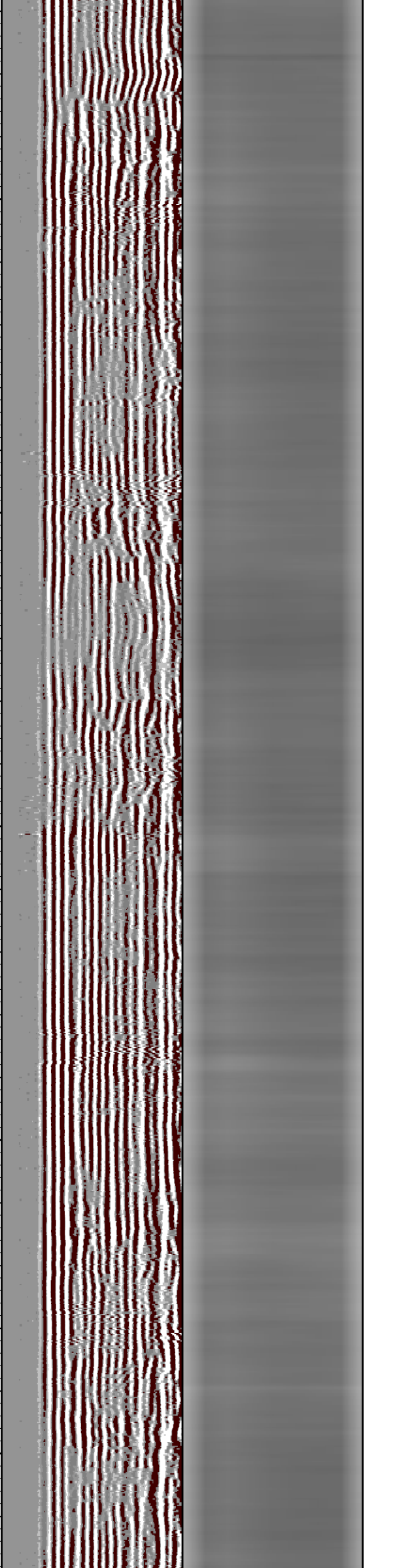
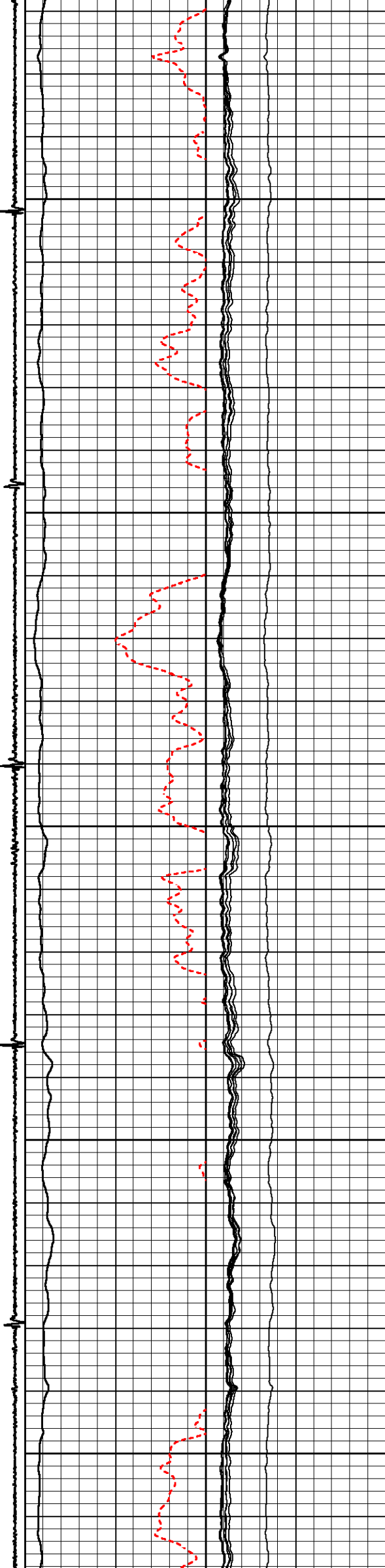
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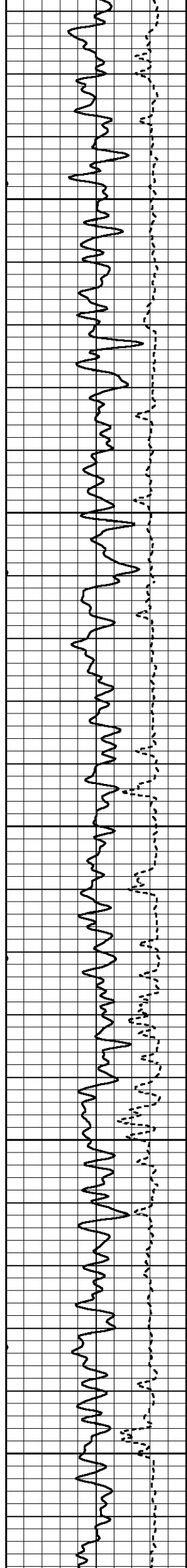
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4950

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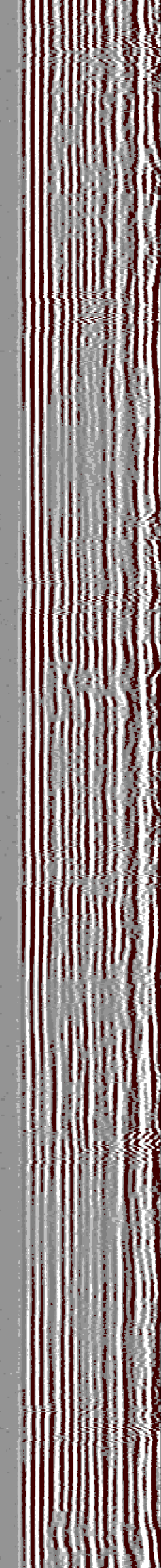
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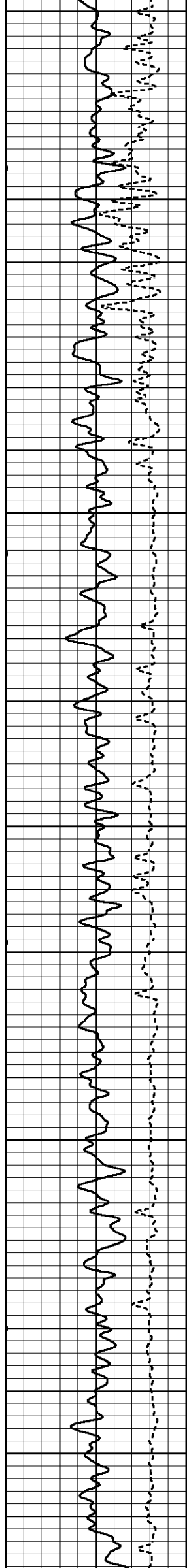
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5150

5200

5250





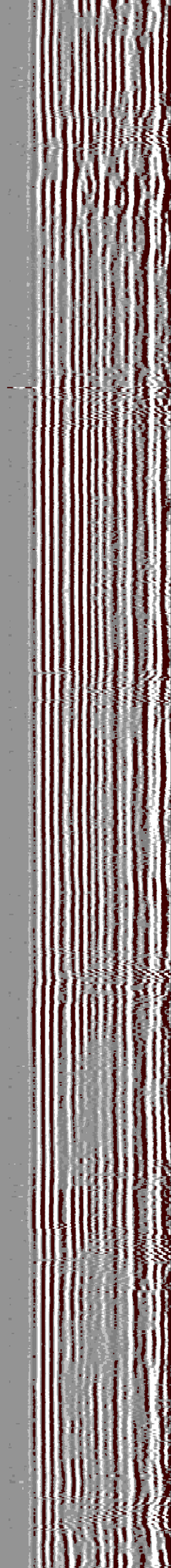
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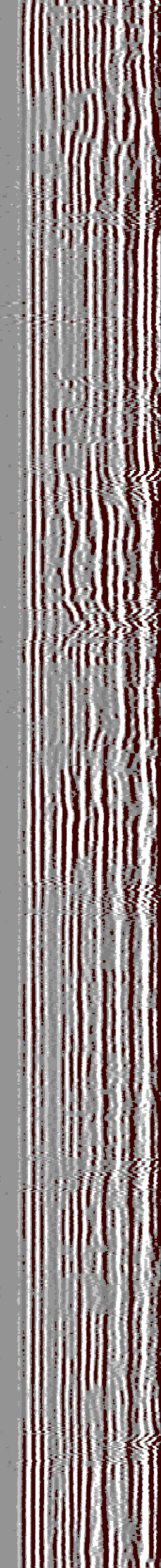
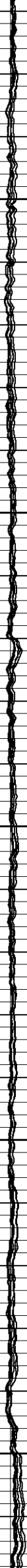
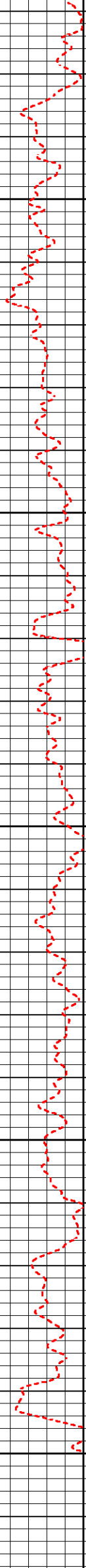
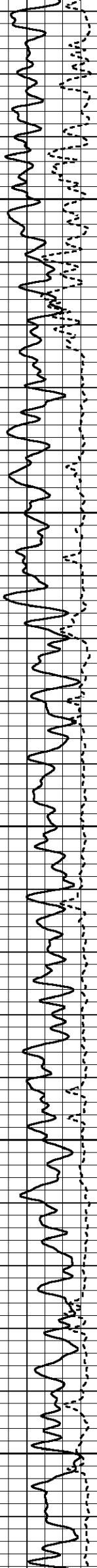
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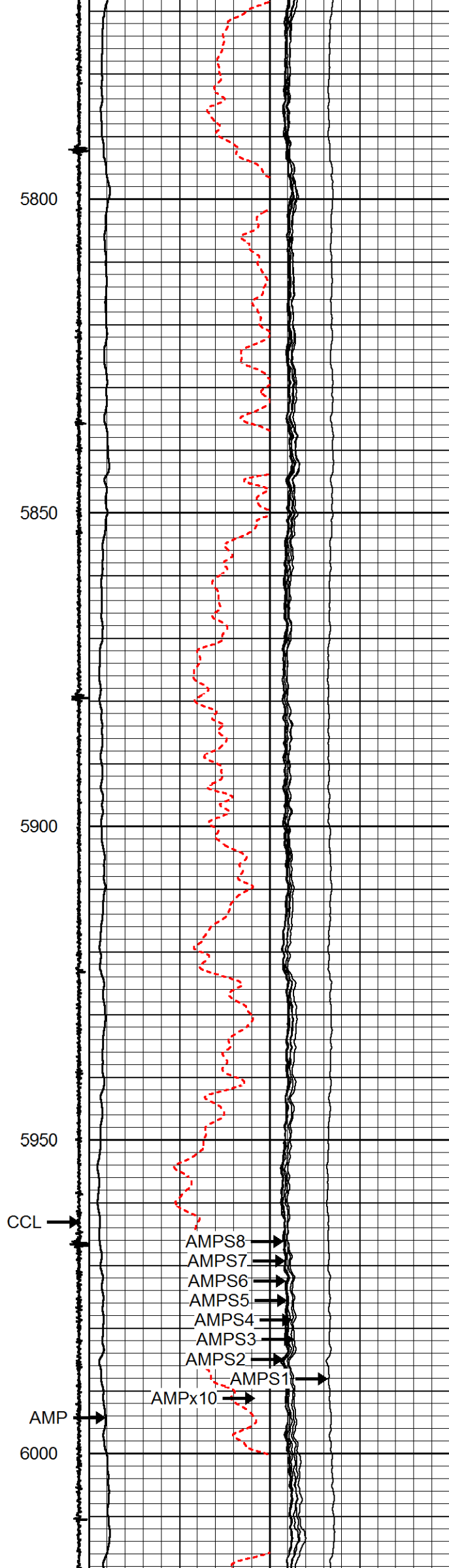
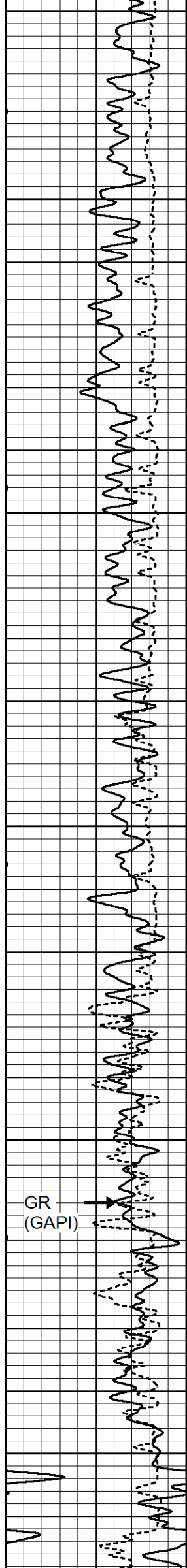
SHORT JOINT

5650

5700

5750





5800

5850

5900

5950

CCL

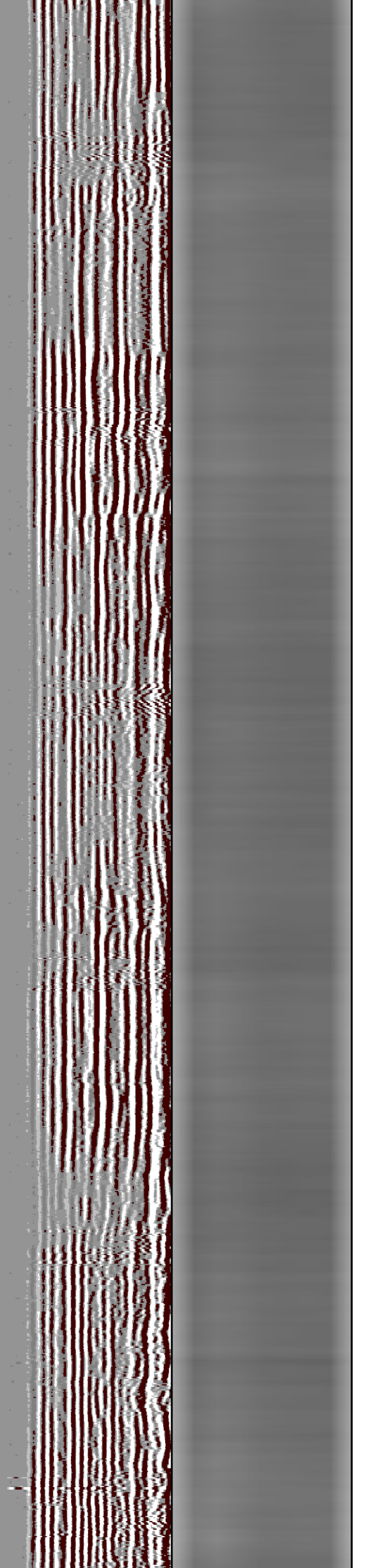
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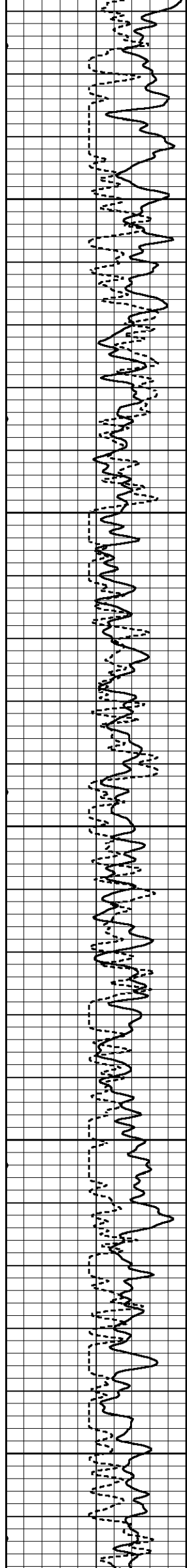
6000

GR
(GAPI)

AMPS8
AMPS7
AMPS6
AMPS5
AMPS4
AMPS3
AMPS2
AMPS1

AMPx10





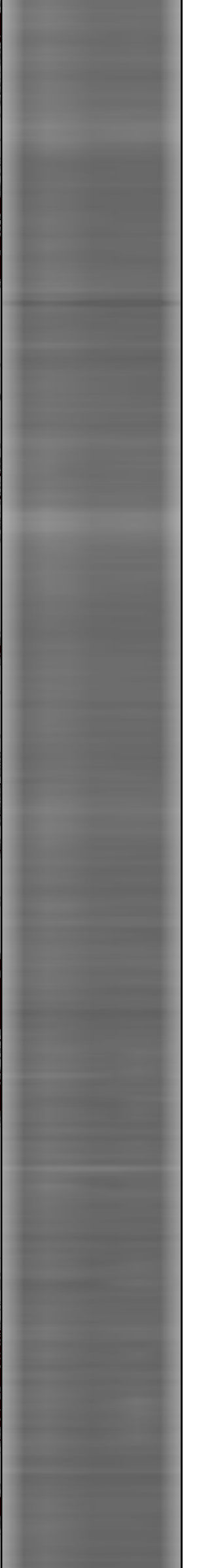
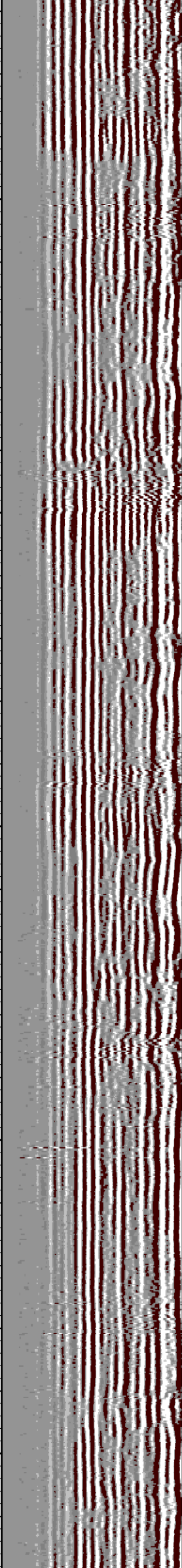
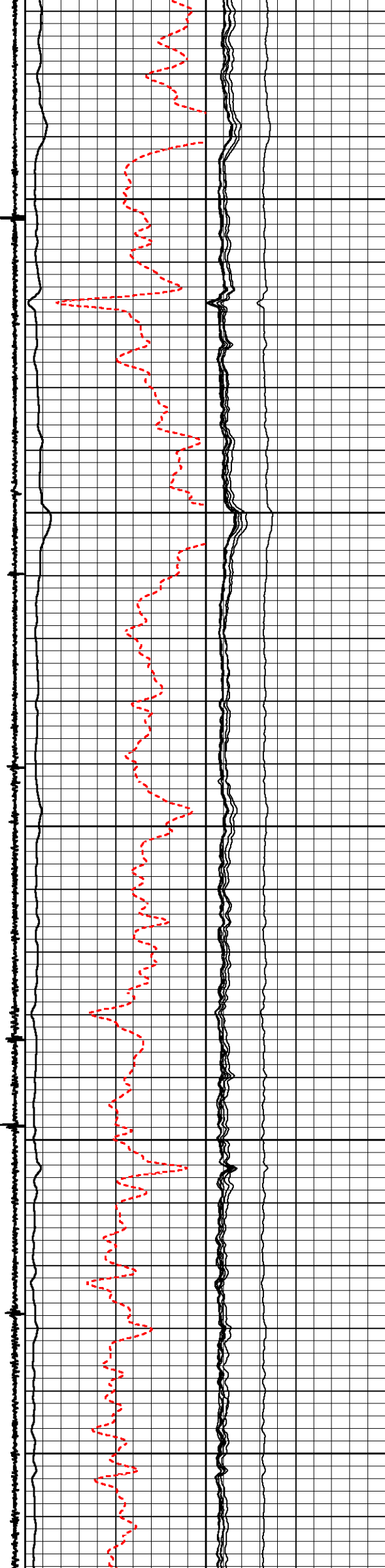
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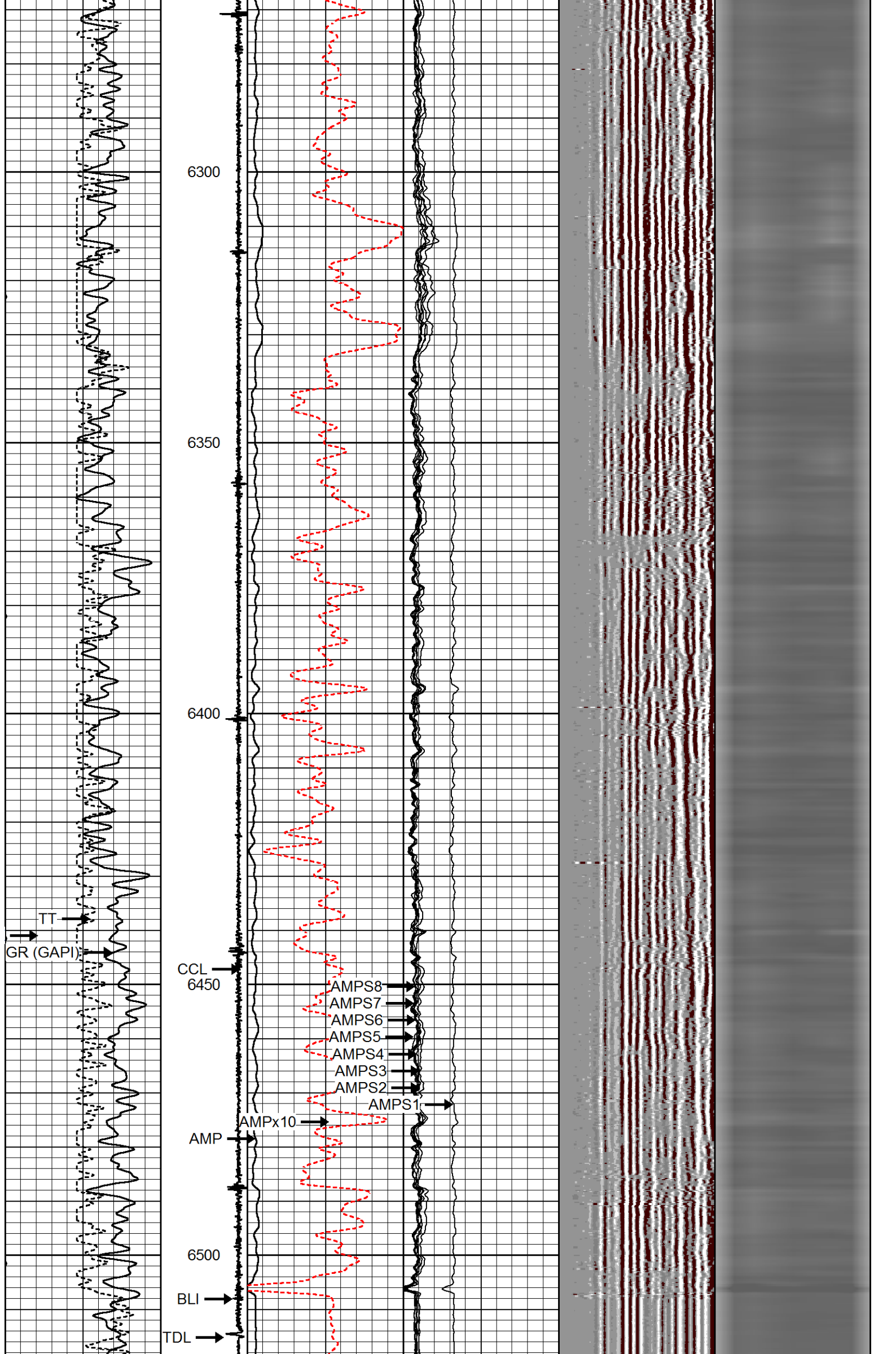
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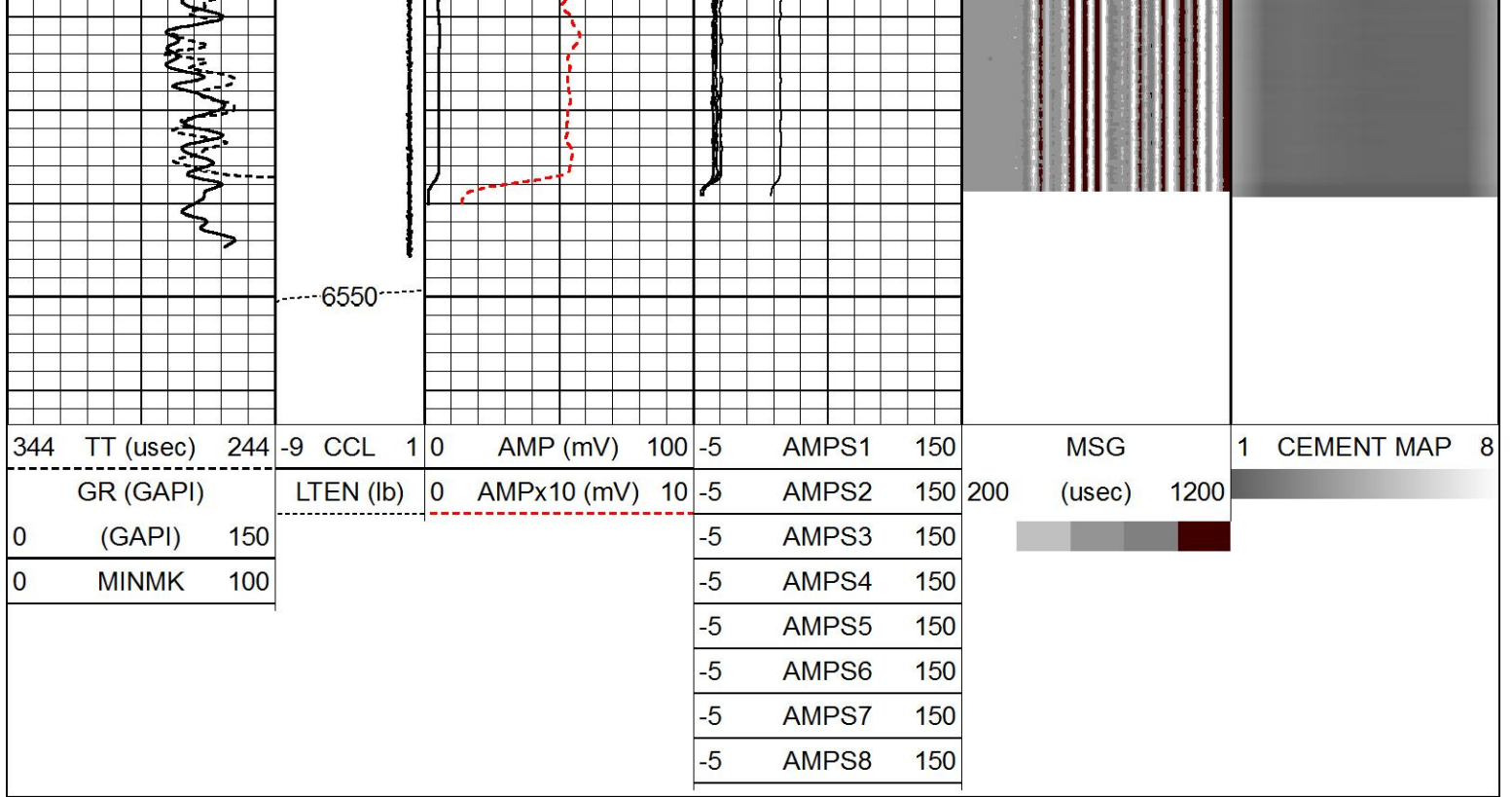
6150

6200

6250







HALLIBURTON

MAIN PASS

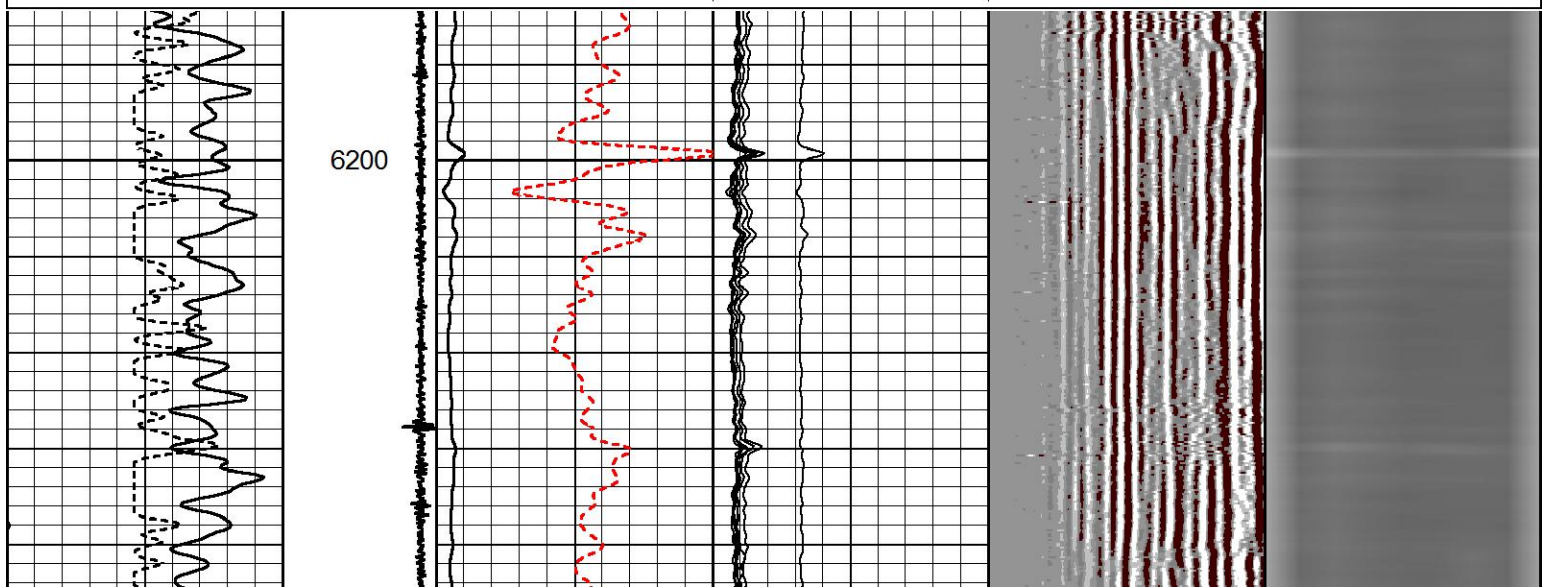
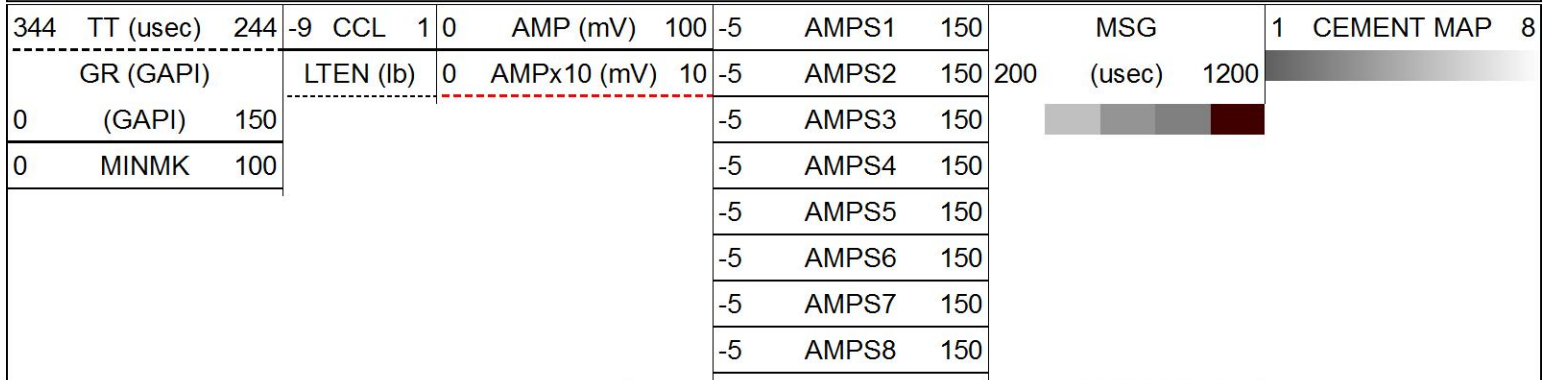
SCALE: 5"=100'

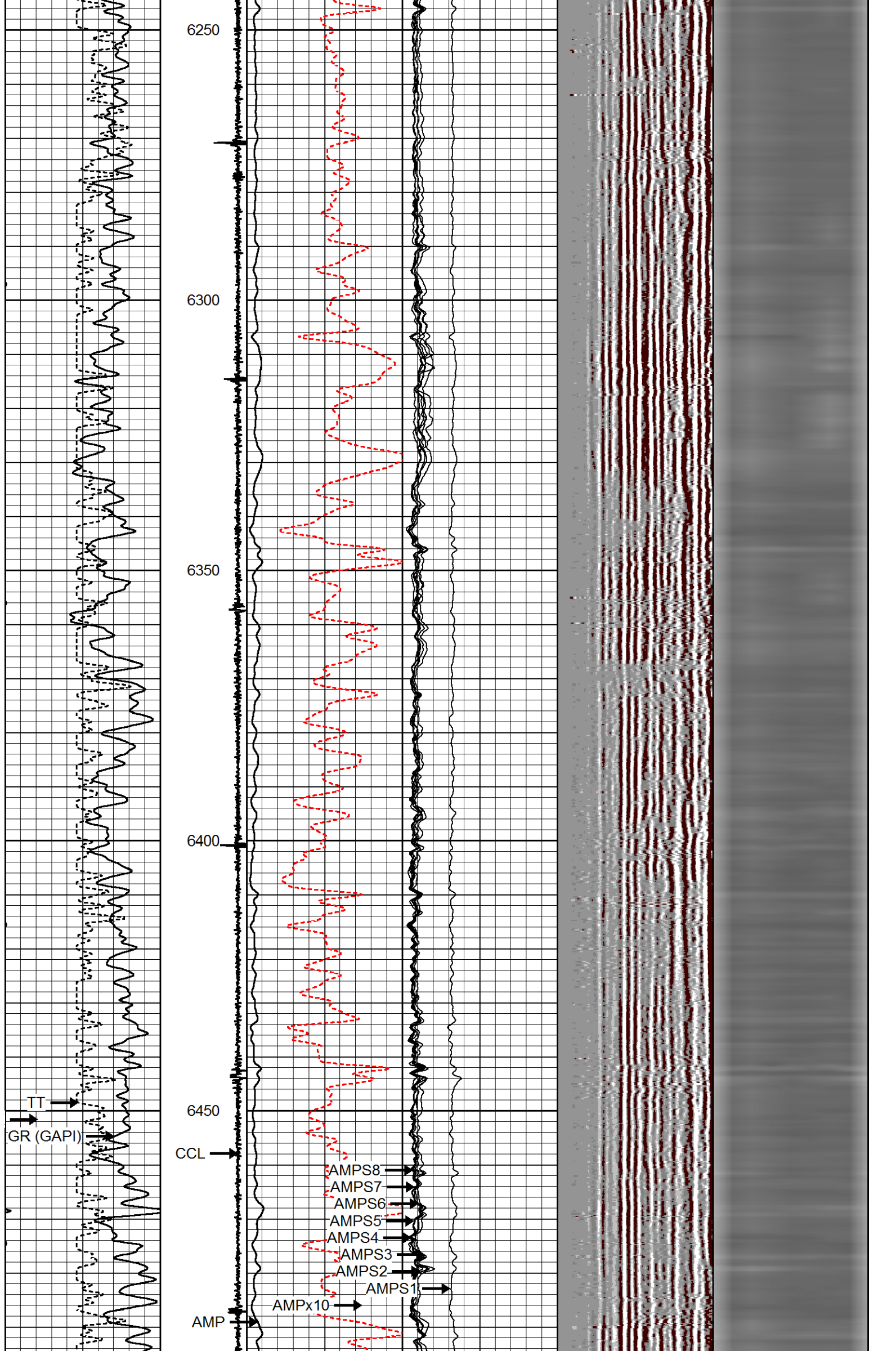
HALLIBURTON

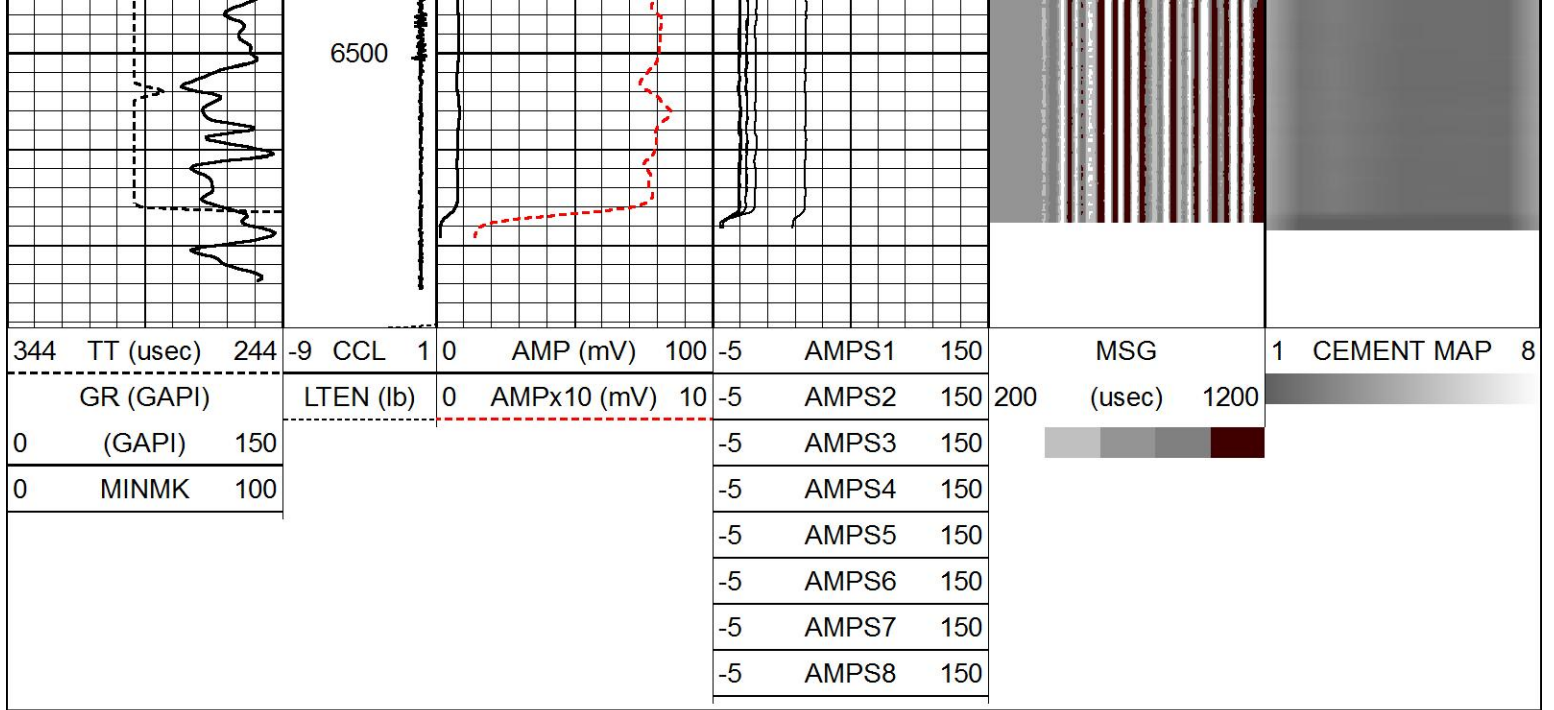
REPEAT PASS

SCALE: 5"=100'

Database File sandridge_peters_0781_16-12h13.db
 Dataset Pathname NorthPark/12H13/RCBL_repeat/pass1
 Presentation Format _rcbl_sand3
 Dataset Creation Fri Apr 27 18:32:46 2018
 Charted by Depth in Feet scaled 1:240







REPEAT PASS

HALLIBURTON

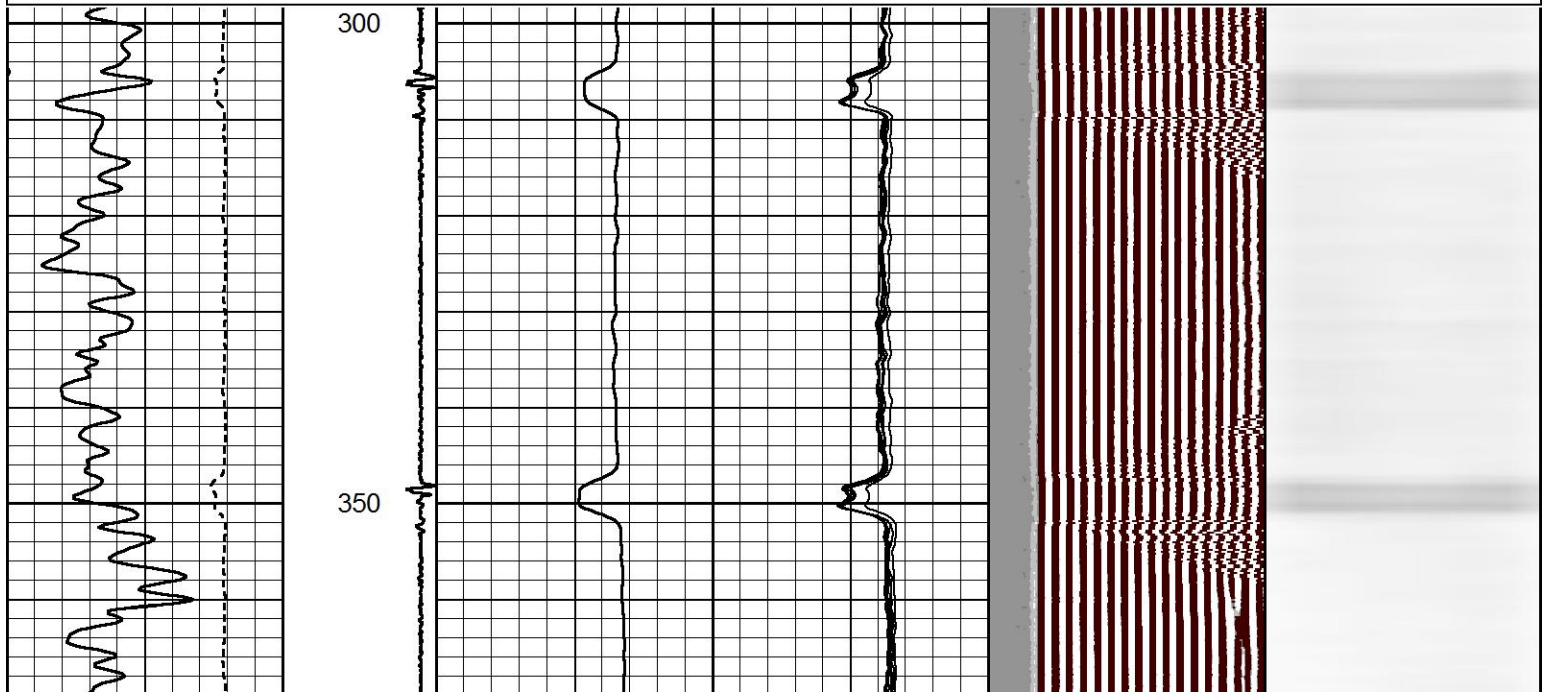
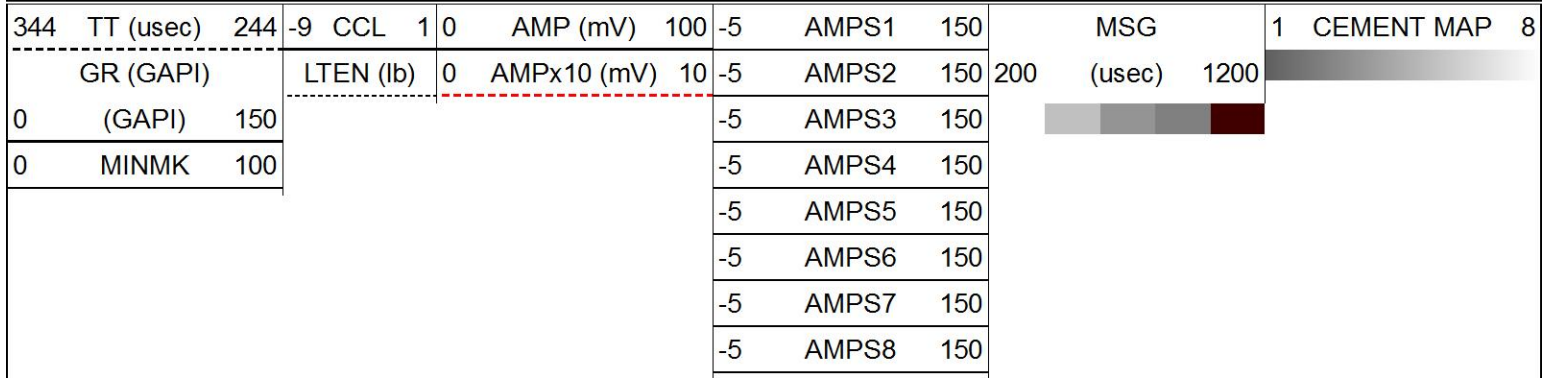
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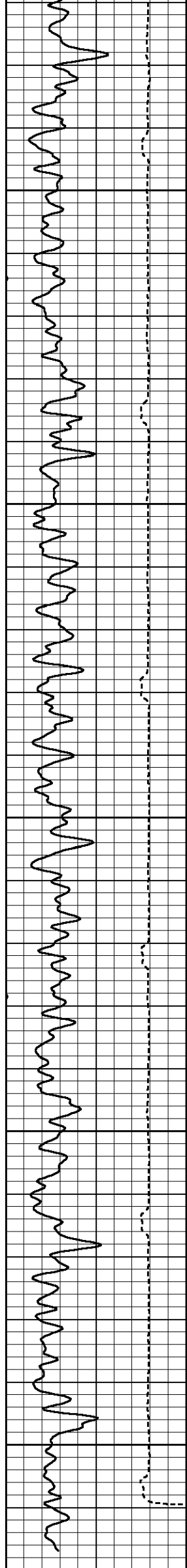
FREE PIPE PASS - PRE

HALLIBURTON

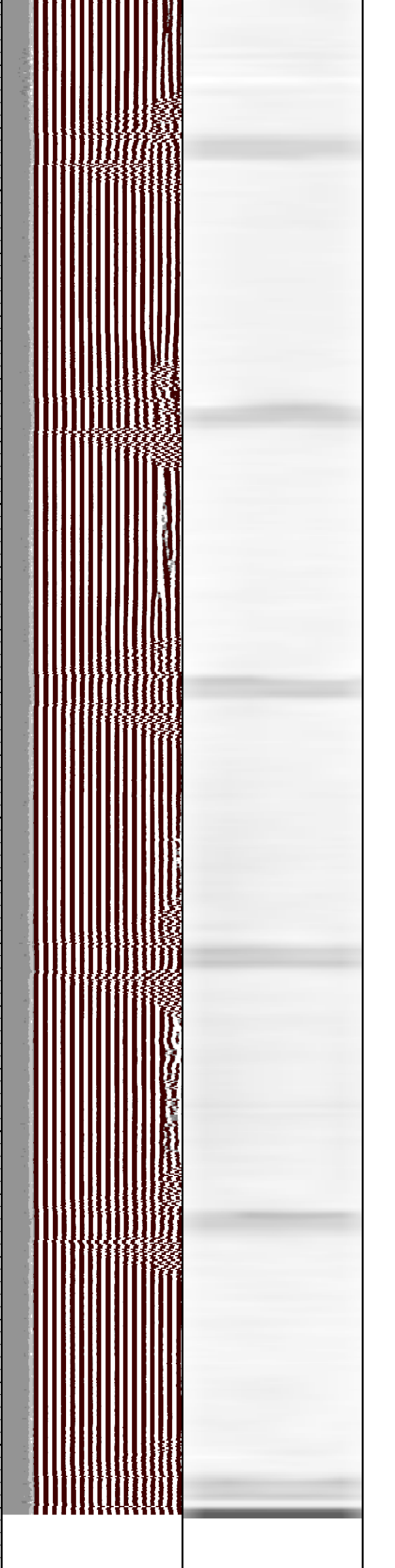
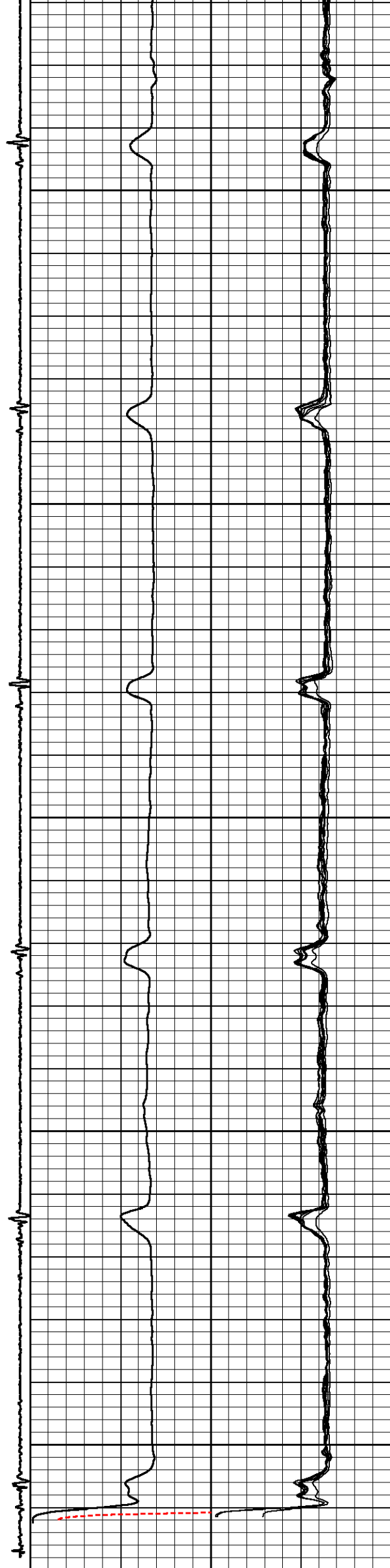
SCALE: 5"=100'

Database File sandridge_peters_0781_16-12h13.db
 Dataset Pathname NorthPark/12H13/RCBL/pass9
 Presentation Format _rcbl_sand3
 Dataset Creation Fri Apr 27 17:53:27 2018
 Charted by Depth in Feet scaled 1:240





400
450
500
550
600



344	TT (usec)	244	-9	CCL	1	0	AMP (mV)	100	-5	AMPS1	150	MSG	1	CEMENT MAP	8
	GR (GAPI)			LTEN (lb)		0	AMPx10 (mV)	10	-5	AMPS2	150	200	(usec)	1200	
0	(GAPI)	150							-5	AMPS3	150				
0	MINMK	100							-5	AMPS4	150				
									-5	AMPS5	150				
									-5	AMPS6	150				
									-5	AMPS7	150				
									-5	AMPS8	150				

FREE PIPE PASS - PRE

HALLIBURTON

SCALE: 5"=100'

Log Variables

Database: C:\ProgramData\Warrrior\Data\sandridge_peters_0781_16-12h13.db
 Dataset: NorthPark/12H13/RCBL_main/pass1/_vars_

Top - Bottom

BITSIZE in 7.875	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0	CASEWGHT lb/ft 20	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.8
MudWgt lb/gal 9.5	PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0			

Calibration Report

Database File: sandridge_peters_0781_16-12h13.db
 Dataset Pathname: NorthPark/12H13/RCBL_main/pass31
 Dataset Creation: Fri Apr 27 21:03:40 2018

Gamma Ray Calibration Report

Type / Serial: Probe275dig / pr050806

SHOP CALIBRATION

Thu Apr 26 16:54:43 2018

	Counts/Sec.	Gain	Offset	Jig	Units
Background	73.0				cps
Calibrator	329.9				cps
		0.9458			GAPI/cps

PRIMARY VERIFICATION

Thu Apr 26 16:58:19 2018

Background	73.2				cps
Calibrator	306.7				cps
Difference				233.6	GAPI

BEFORE SURVEY VERIFICATION

Fri Apr 27 16:06:52 2018

Background	80.2				cps
Calibrator	309.4				cps
Difference				229.2	GAPI

AFTER SURVEY VERIFICATION

Fri Apr 27 21:03:32 2018

Background	92.6				cps
Calibrator	333.1				cps
Difference				240.5	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 051010
 Tool Model: Probe
 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 621.875 ft

Master Calibration, performed Fri Apr 27 17:49:33 2018:



	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.006	1.008	1.000	71.921	69.934	1.417
CAL	-0.026	1.867				
5'	-0.001	0.930	1.000	71.921	76.136	1.096
SUM						
S1	-0.619	0.936	0.000	100.000	64.289	39.804
S2	0.008	0.912	0.000	100.000	110.703	-0.912
S3	-0.006	0.976	0.000	100.000	101.817	0.657
S4	-0.004	1.060	0.000	100.000	93.967	0.362
S5	-0.005	1.115	0.000	100.000	89.238	0.465
S6	-0.006	1.140	0.000	100.000	87.232	0.526
S7	-0.007	1.075	0.000	100.000	92.426	0.605
S8	-0.006	0.949	0.000	100.000	104.667	0.657

Internal Reference Calibration, performed Tue Oct 11 09:01:28 2005:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.026	1.867	1.000	0.000

Air Zero Calibration, performed Tue Oct 11 09:00:43 2005:

	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	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
WVECAL	11.81		RPT_DRR275_Probe (051010)	8.33	2.75	90.00

WVF3FT	11.81		RB1_PRB275-PRobe (051010) Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00	
WVF5FT	10.81						
				CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
CCL	3.92						
GR	2.54		GR_PRB275-probe275dig (pr050806) Probe Digital Gamma CCL	4.75	2.75	57.00	

Dataset: sandridge_peters_0781_16-12h13.db: NorthPark/12H13/RCBL_main/pass1
 Total length: 18.83 ft
 Total weight: 187.00 lb
 O.D.: 2.75 in

Company	SANDRIDGE ENERGY		
Well	PETERS 0781 16-12H13		
Field	NORTHPARK		
County	JACKSON	State	COLORADO
HALLIBURTON	CEMENT BONG LOG		
	SCALE 1:240		