

CEMENT BOND LOG
GAMMA RAY

COMPANY WEXPRO COMPANY		WELL CARL ALLEN # 27		FIELD POWDER WASH		CNTY MOFFAT STATE CO	
COMPANY WEXPRO COMPANY		WELL CARL ALLEN # 27		FIELD POWDER WASH		COUNTY MOFFAT STATE COLORADO	
LOCATION:		368' FNL & 1516' FWL NE/NW		OTHER SERVICES:			
API # 05-081-07409-00		SEC.33 TWP.12N RGE97W		CRANE PND			
PERM. DATUM GROUND LEVEL		LOG MEASURED FROM 13.5 FT. ABOVE PERMANENT DATUM		ELEV. 6575.4'		ELEV.: K.B. 6588.9 D.F. G.L. 6575.4	
DRILLING MEASURED FROM KELLY BUSHING							
DATE		22-FEB-2008					
RUN NO.		ONE					
DEPTH DRILLER		8808.1'					
DEPTH LOGGER		8779'					
BTM. LOG INTERVAL		8773'					
TOP LOG INTERVAL		450'					
OPEN HOLE SIZE		7"					
TYPE FLUID		KCL WATER					
DENS.		VISC.					
MAX. REC. TEMP. F		N/A					
EST. CEMENT TOP		SURFACE					
TIME WELL READY		ROA					
TIME LOGGER ON BTM.		08:15					
EQUIP. NO.		14115					
LOCATION		CASPER					
RECORDED BY		PARKER					
WITNESSED BY		FOOS					
BOREHOLE RECORD				TUBING RECORD			
RUN NO.		BIT FROM TO		SIZE WGT. FROM TO			
CASING RECORD		SIZE WT/FT GRADE TYPE JOINT TOP BOTTOM					
SURFACE STRING		9.625" 36 K-55		SURF		483.72	
PROT. STRING							
PROD. STRING		4.5" 13.5 P-110		SURF		8808.1	
LINER							

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

REMARKS Rig: WFT # 15058 Service Order # 142871
WELL LOGGED WITHOUT PRESSURE USING WIRELINE MEASUREMENTS BHT N/A °F
ESTIMATED CEMENT TOP IS SURFACE
SHORT JOINT AT 8200' AND 7485'

Prints: 5

EQUIPMENT DATA			
Bit Size	7 "	Run No.	Tool Type
Well Status	NEW	ONE	SECTOR BOND
Surface Pressure			
Shut In	Flowing		
N/A	N/A		

REMARKS

MAIN PASS LOGGED WITHOUT PRESSURE

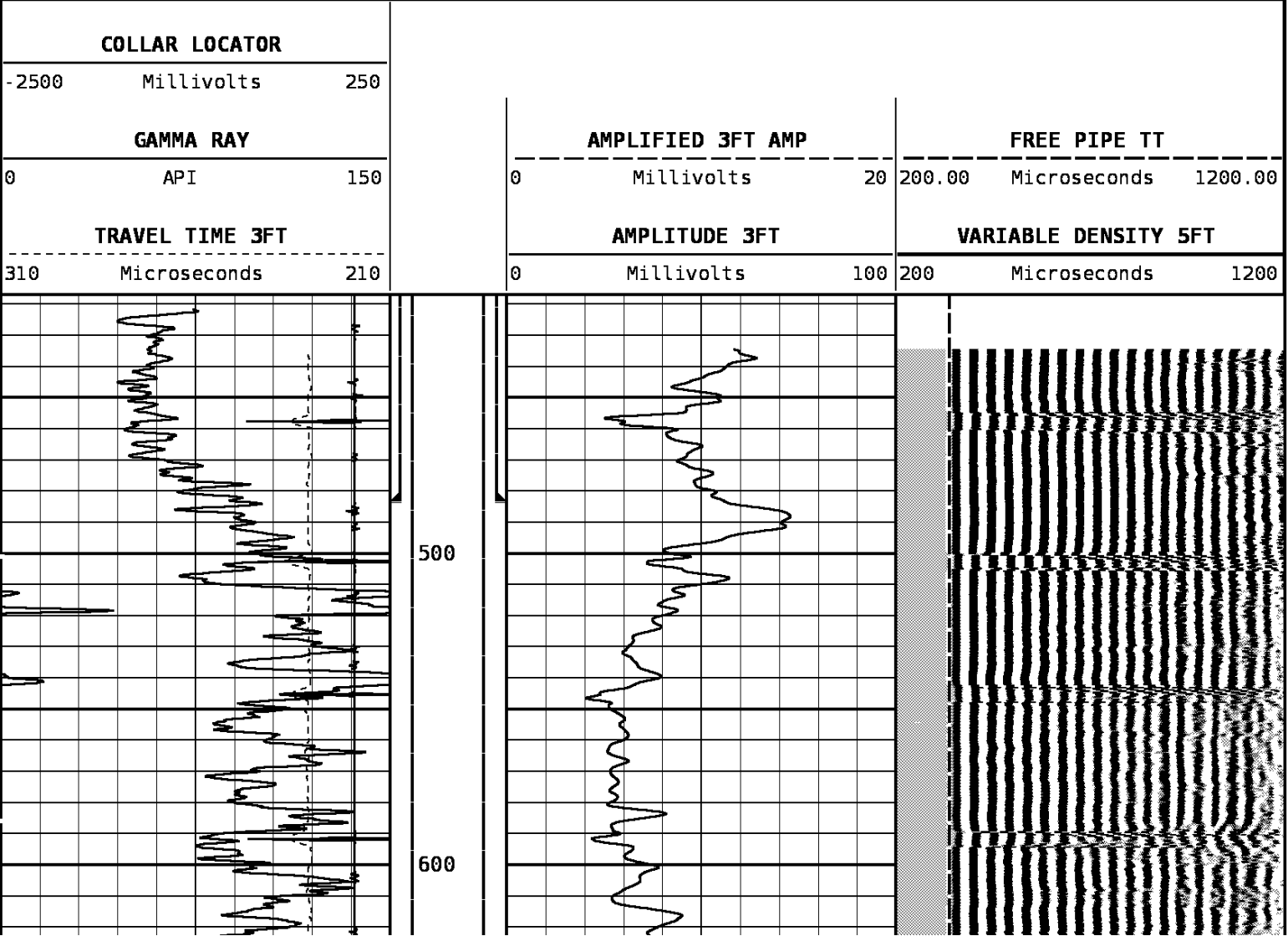
DEPTH SCALE: 2":100'

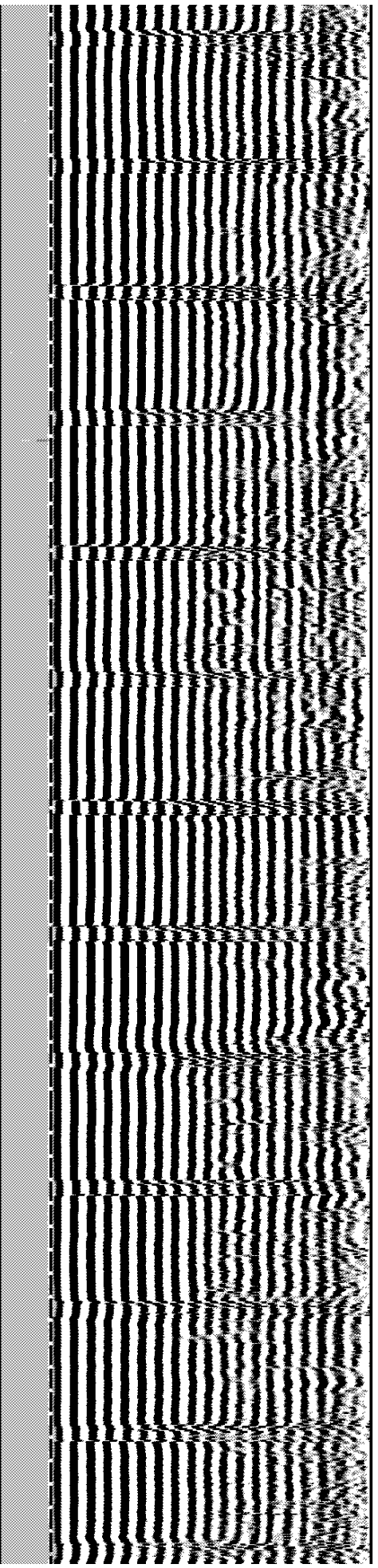
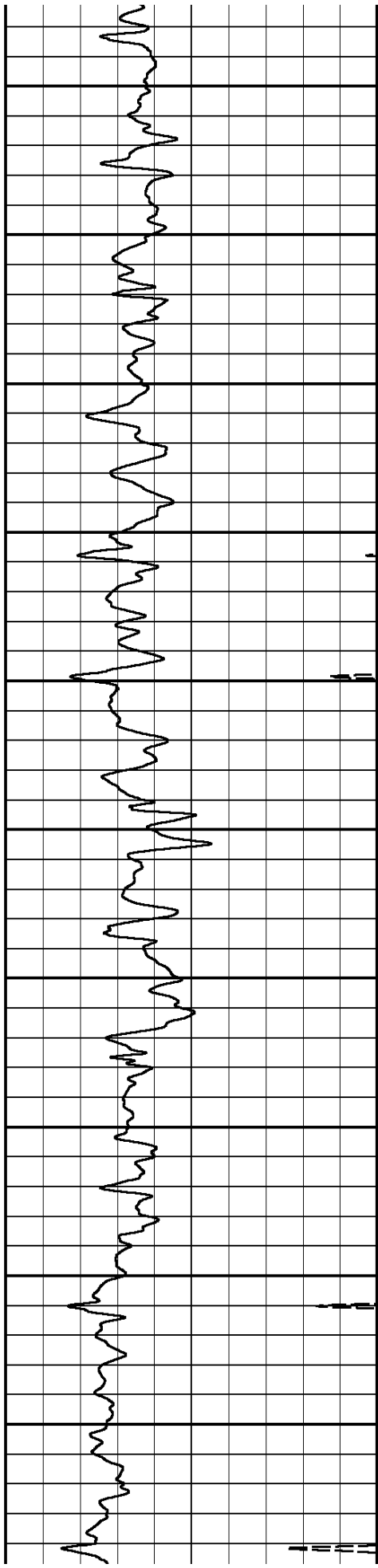
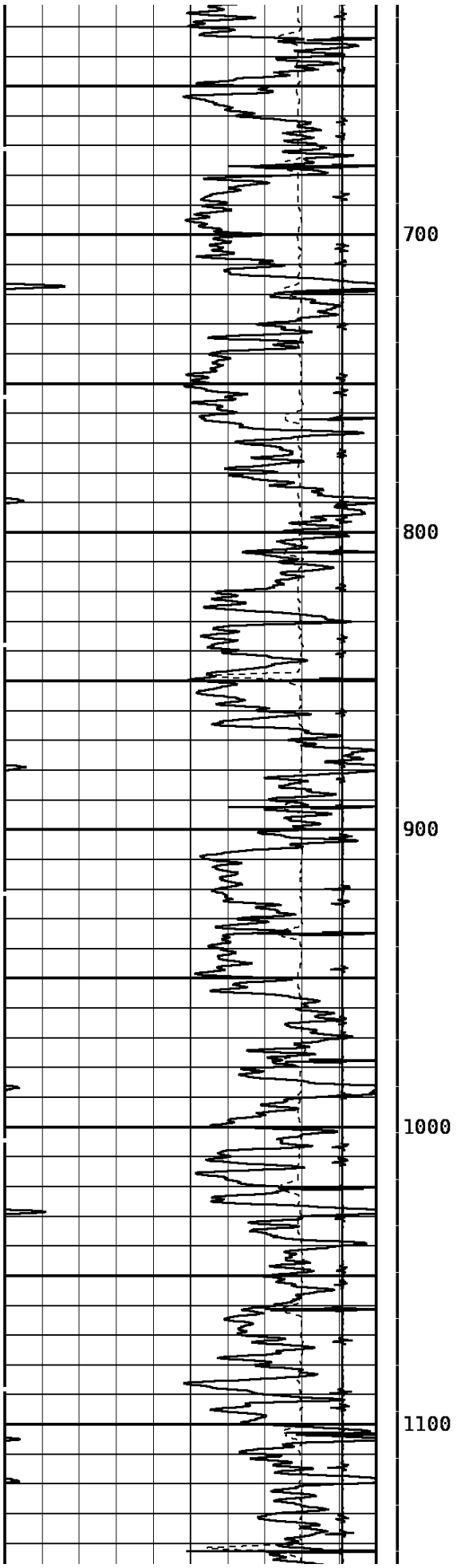
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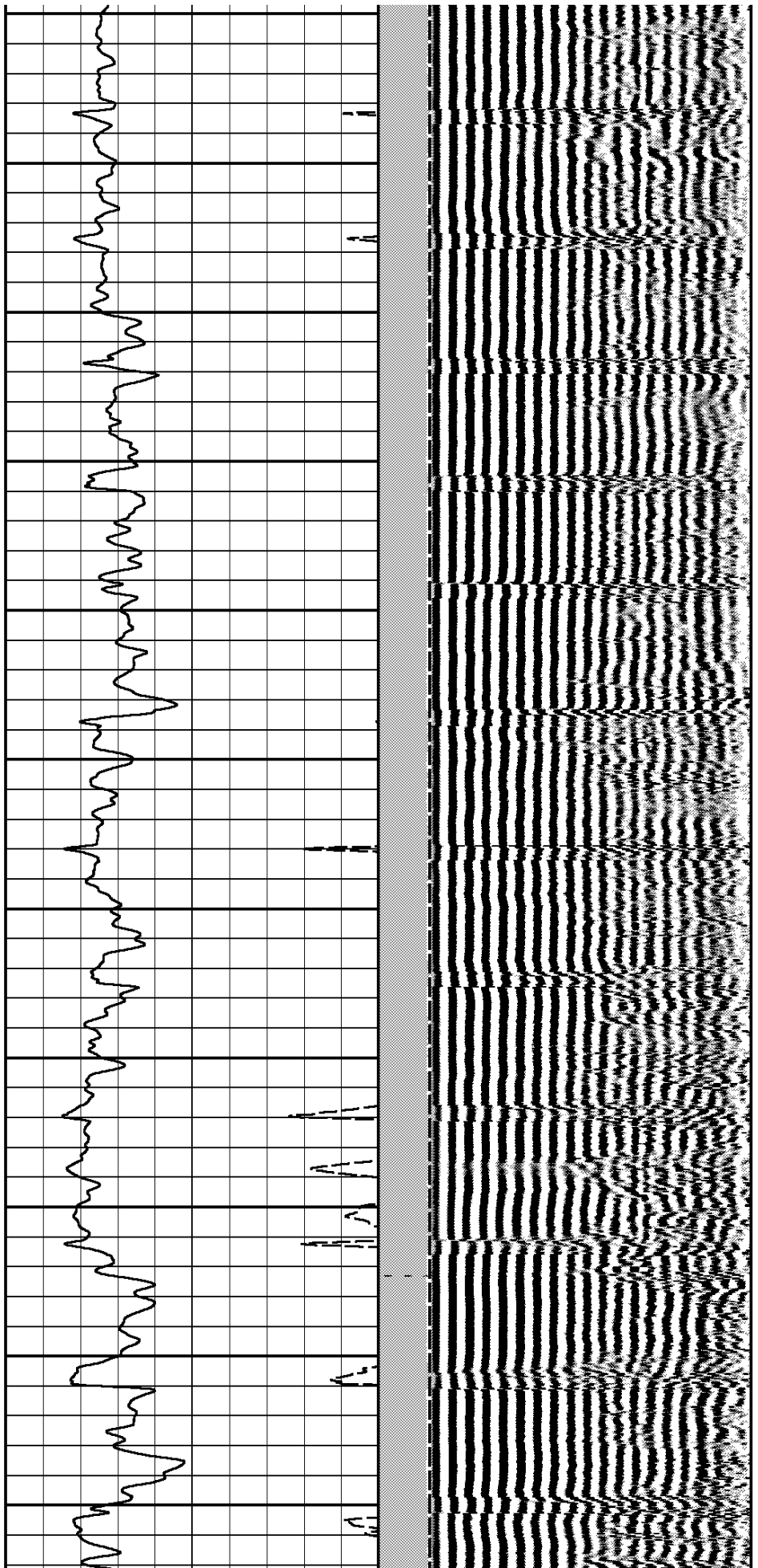
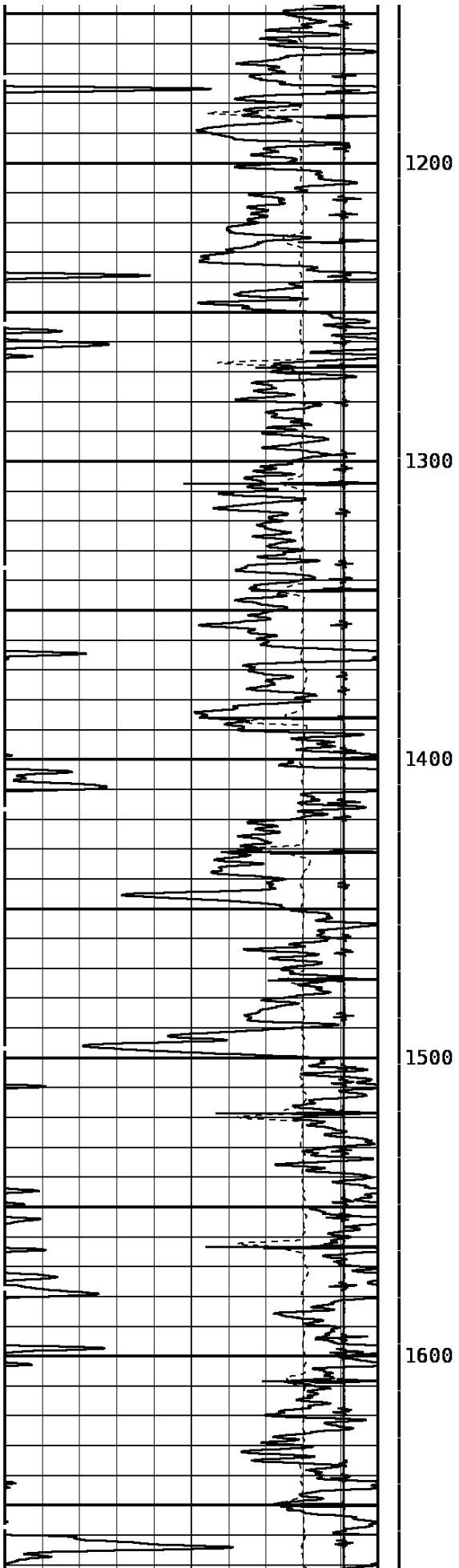
MAIN PASS

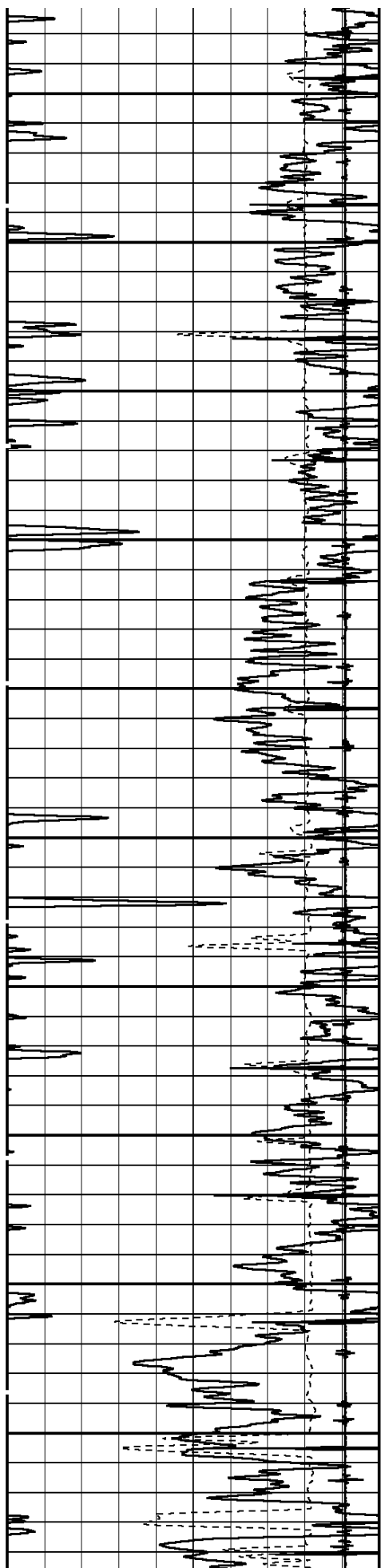
142871 CBLMAINFIN

FINISH DEPTH: 440.8 Feet DIRECTION: UP DATE: 02/22/2008 TIME: 09:58 MODE: ORIGINAL









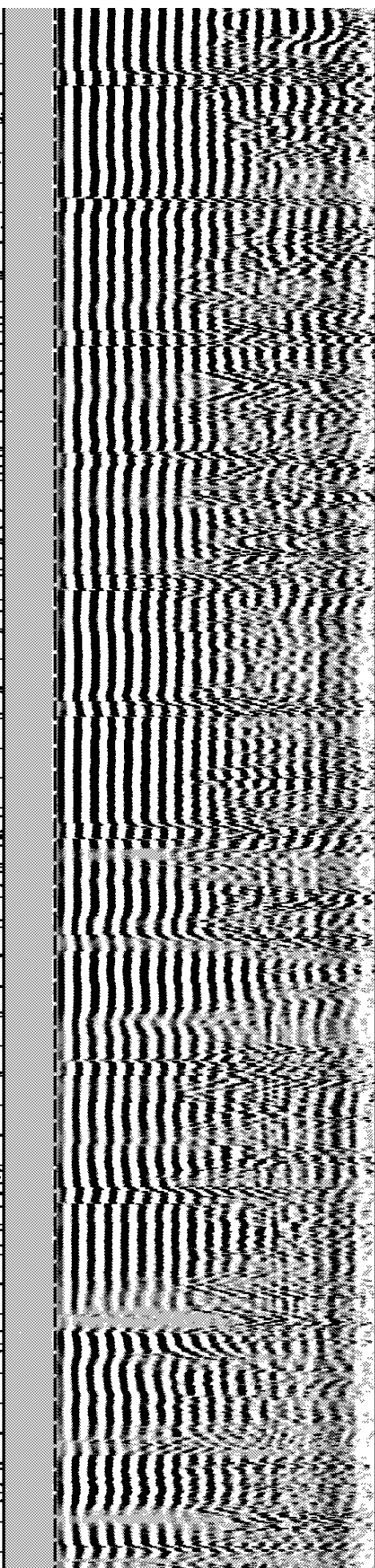
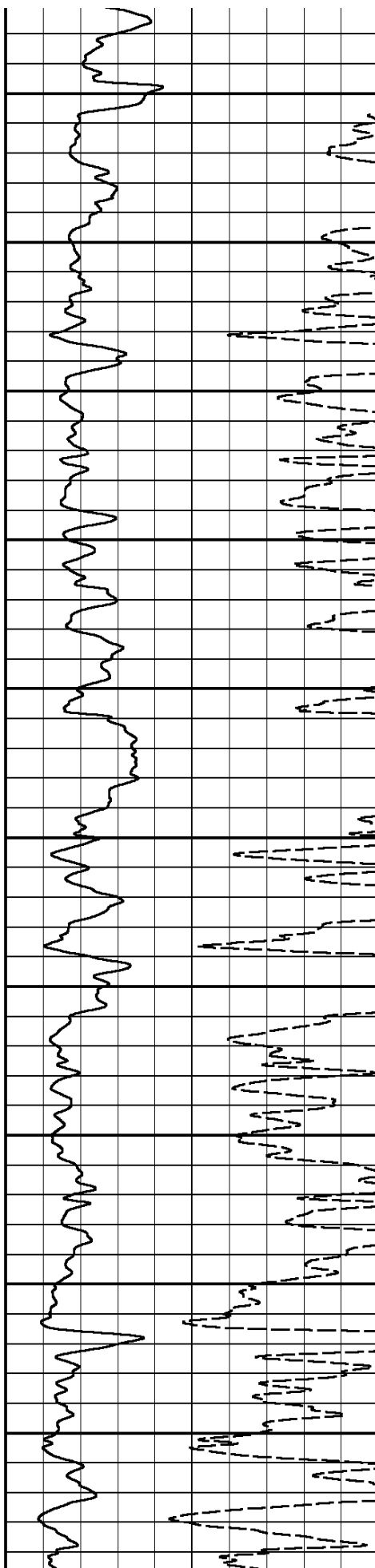
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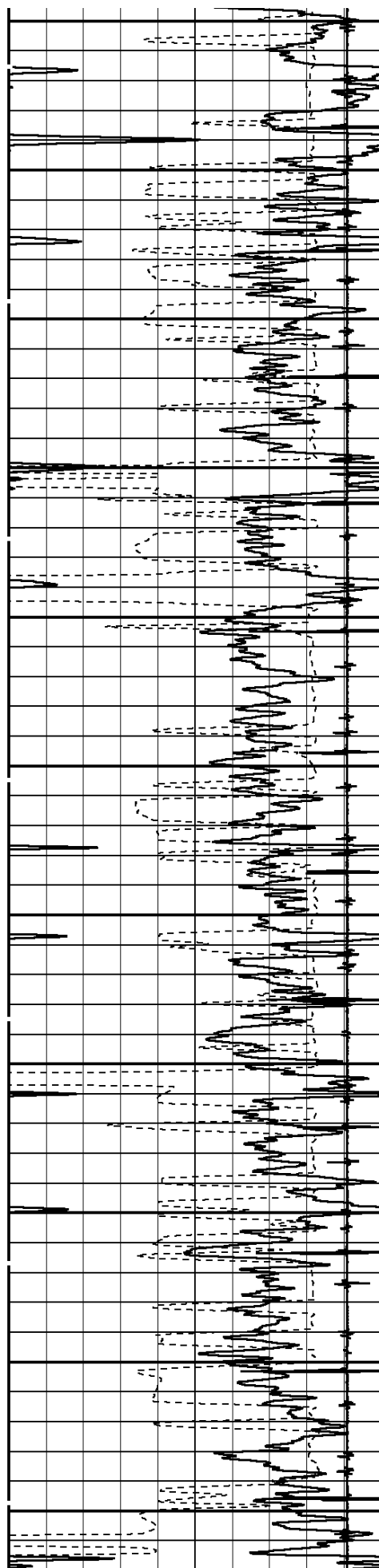
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1900

2000

2100





2200

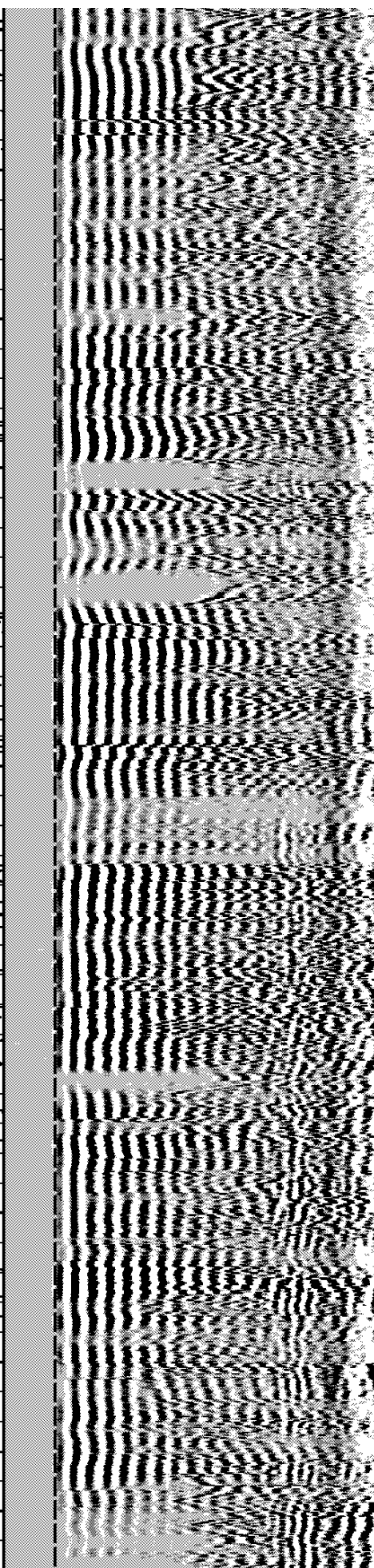
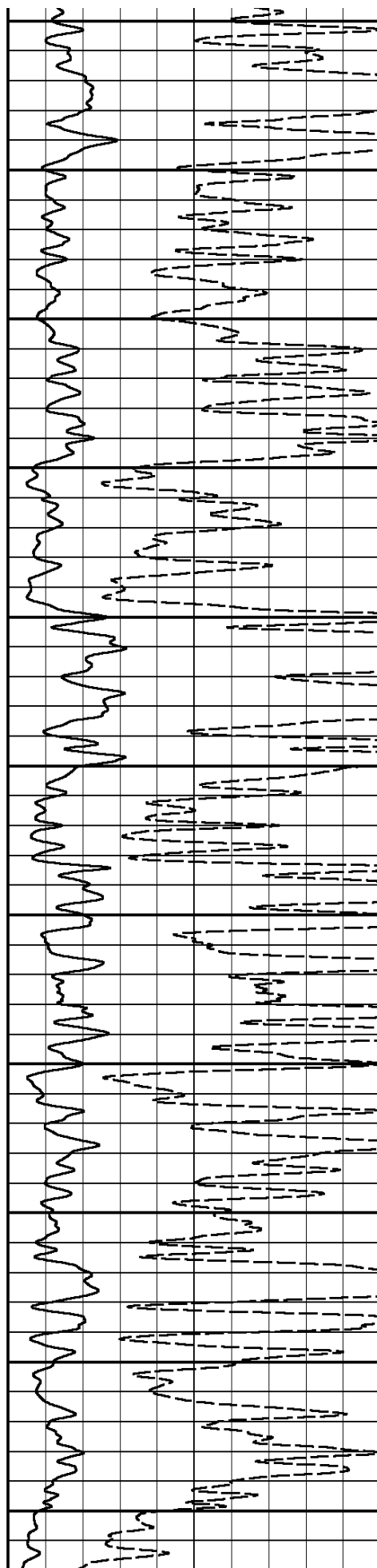
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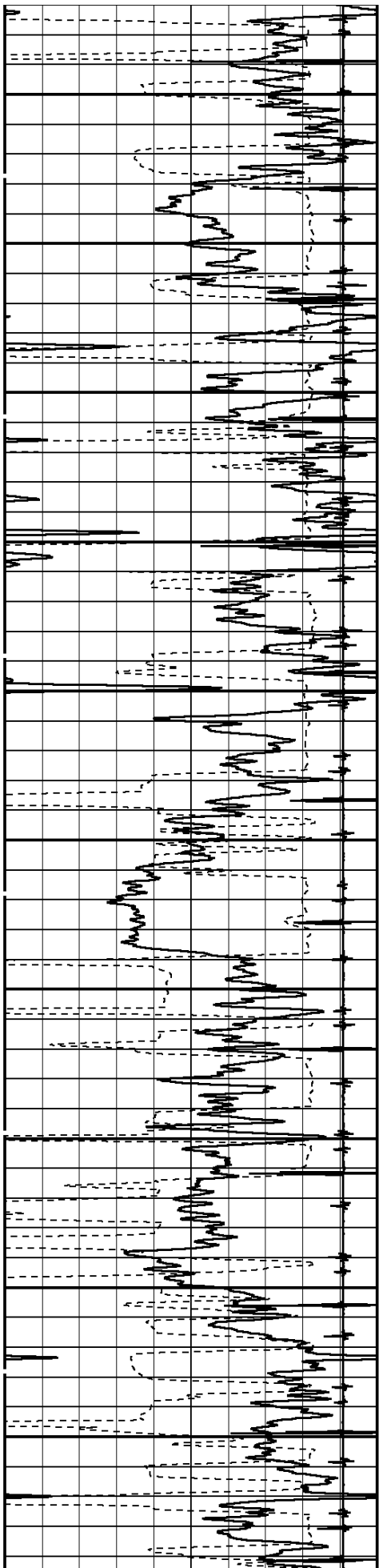
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2700





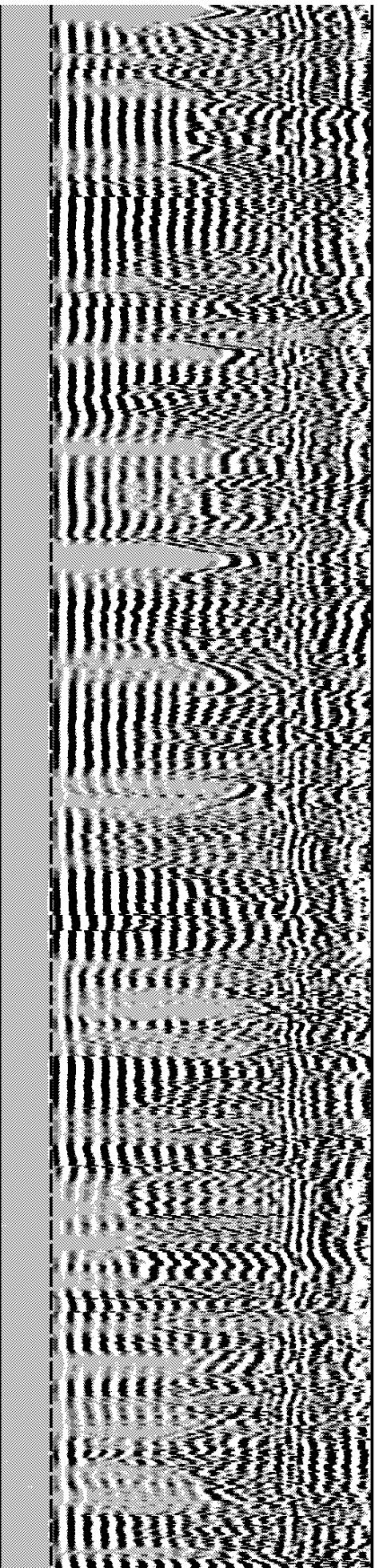
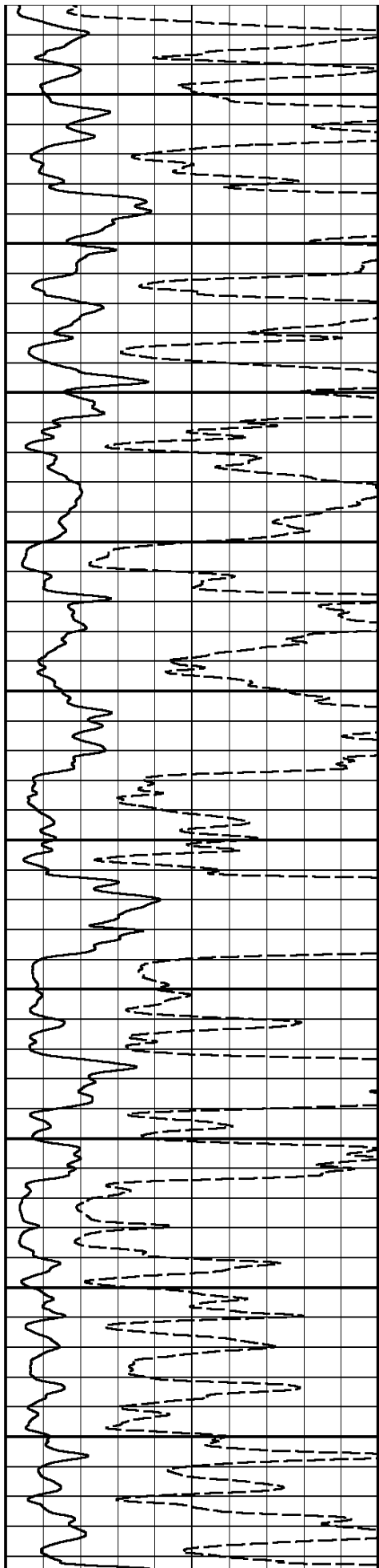
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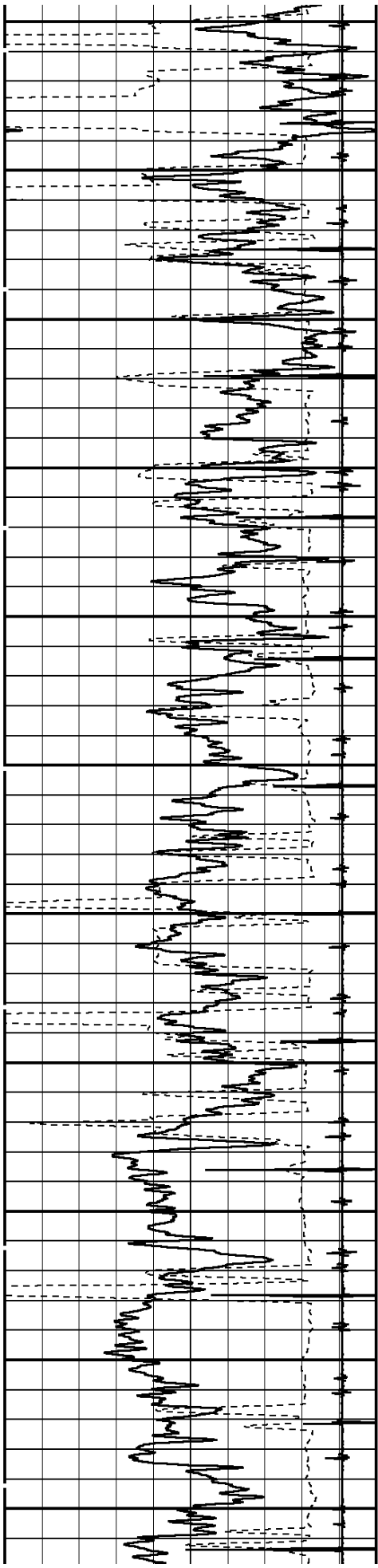
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3000

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3200





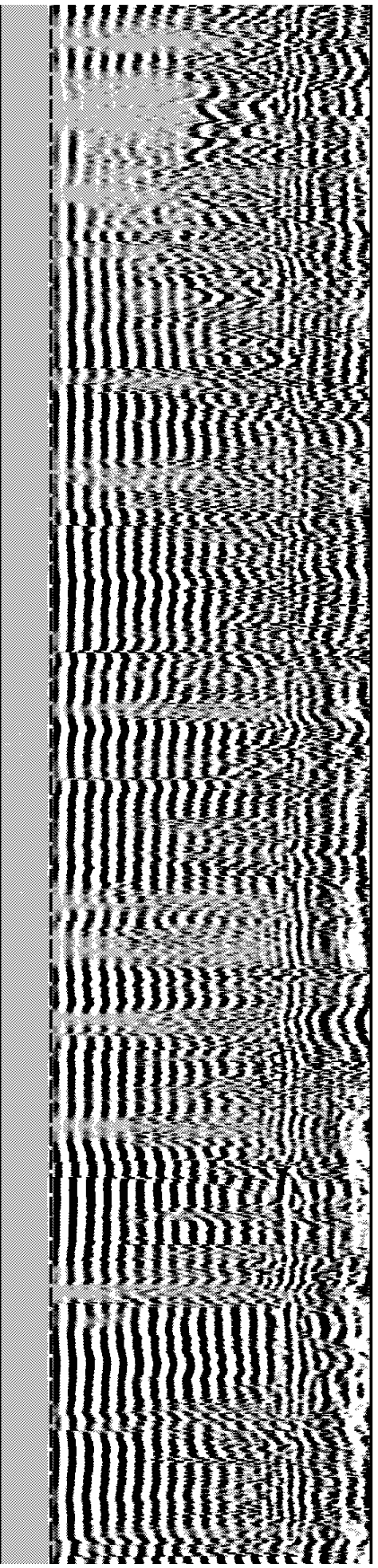
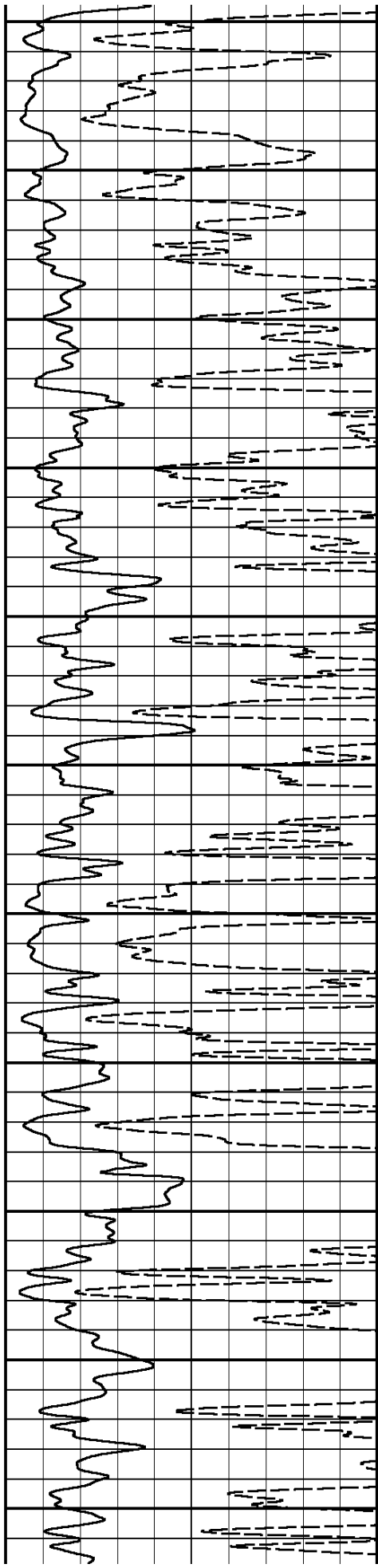
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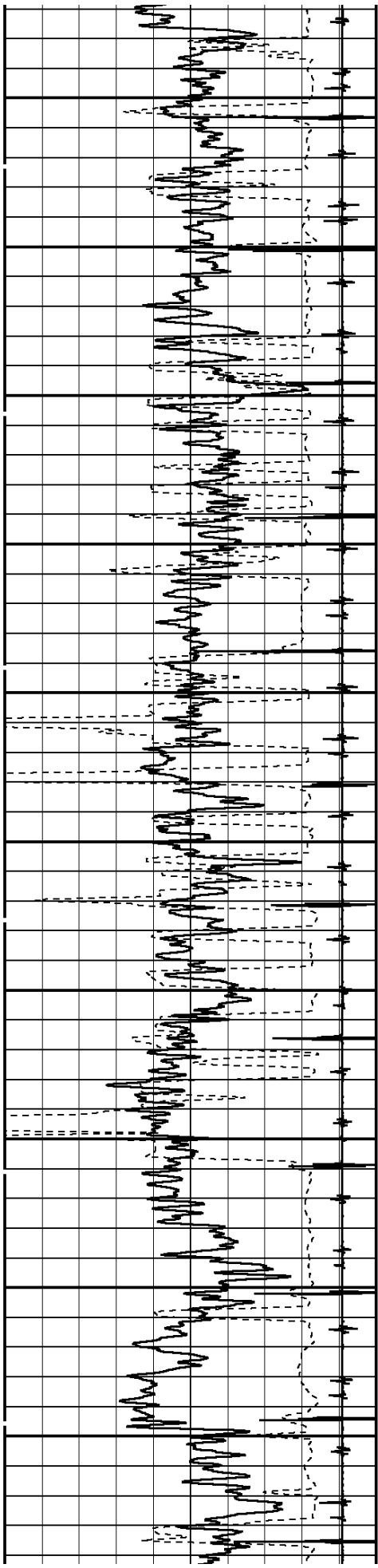
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3700





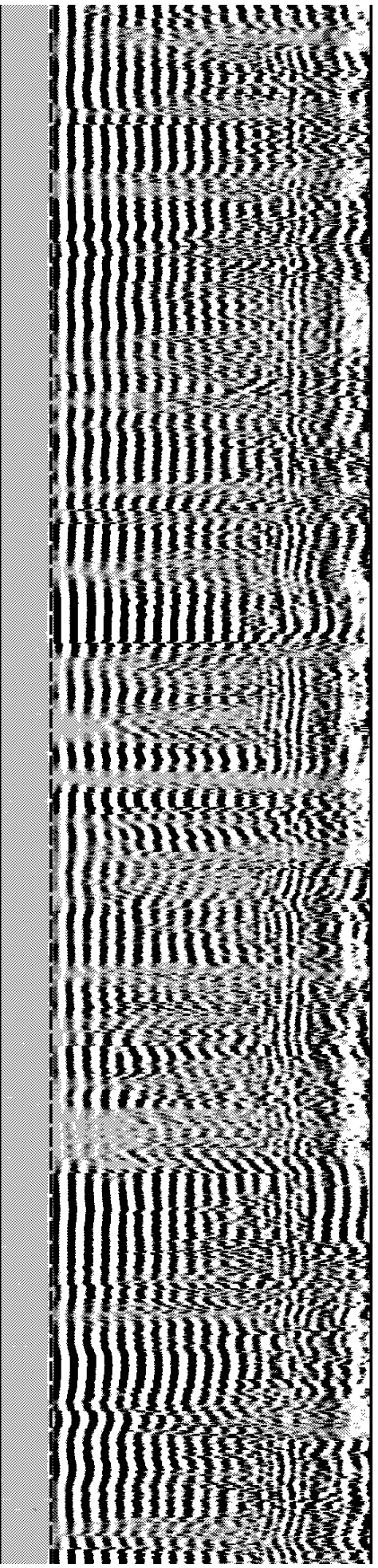
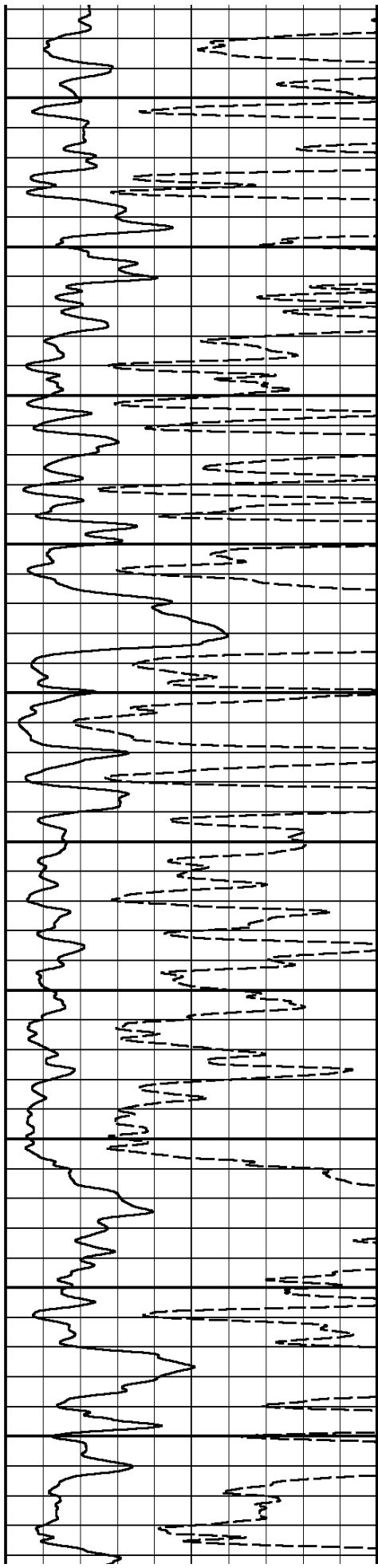
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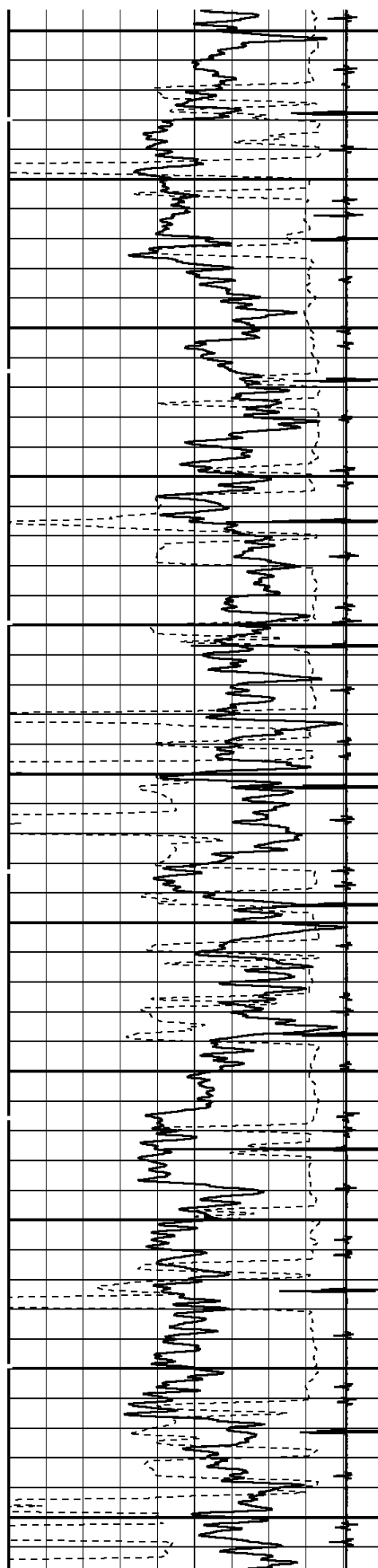
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4200





4300

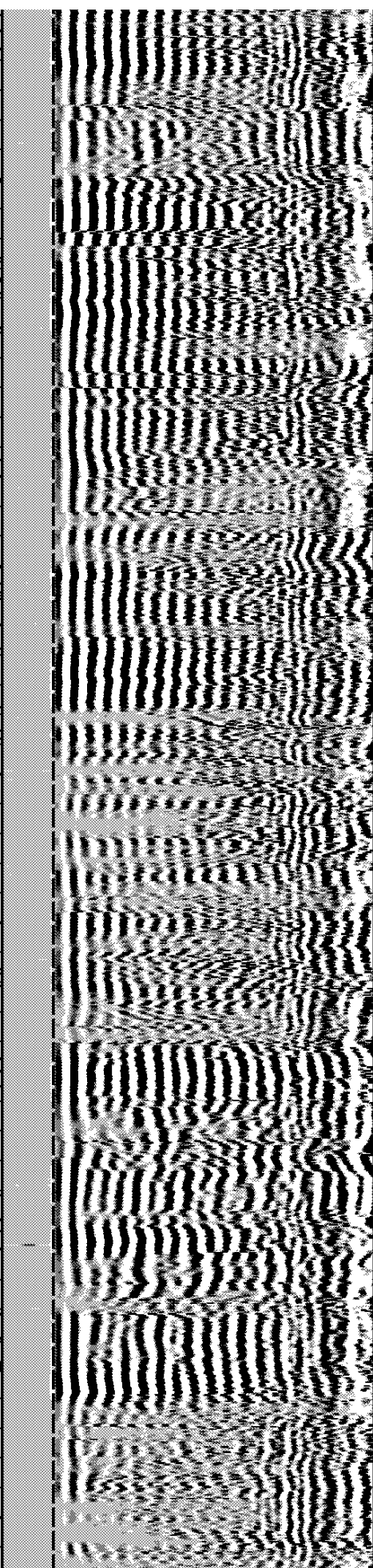
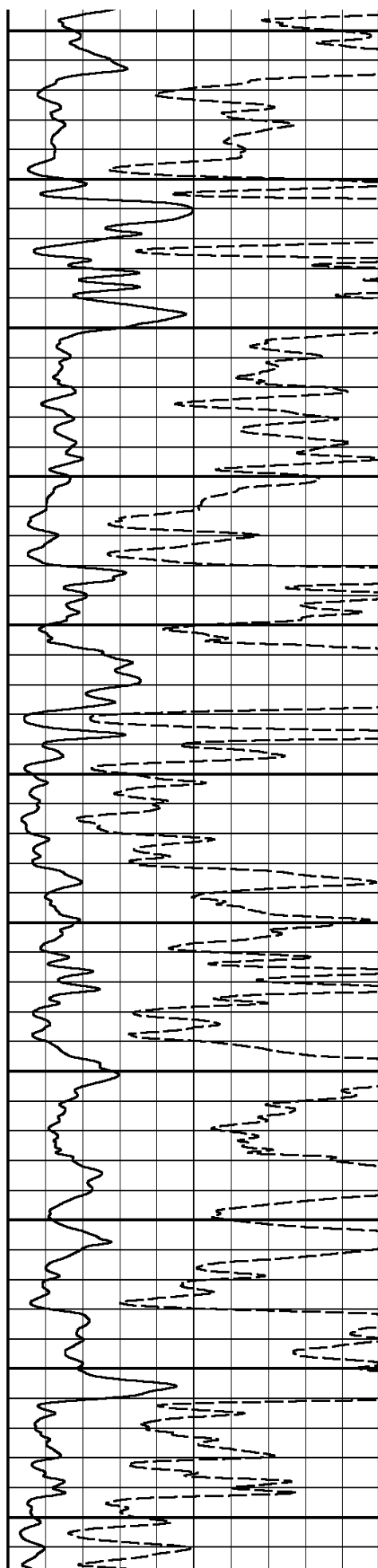
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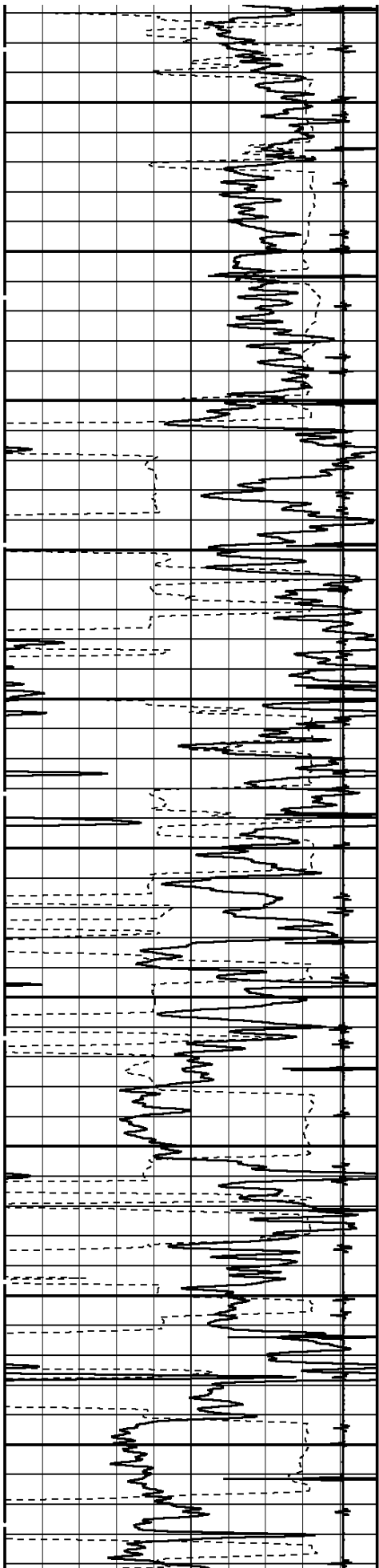
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4800





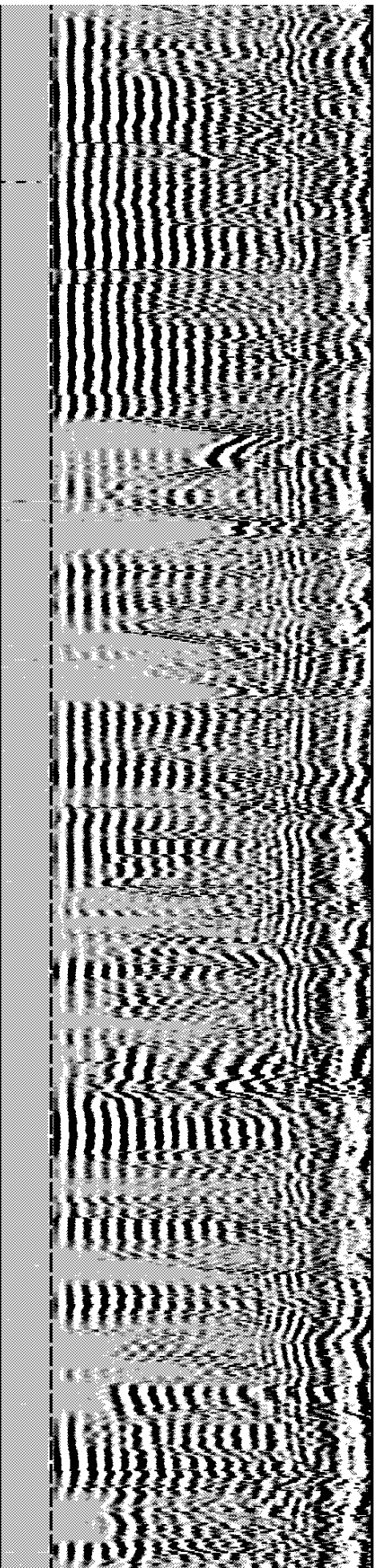
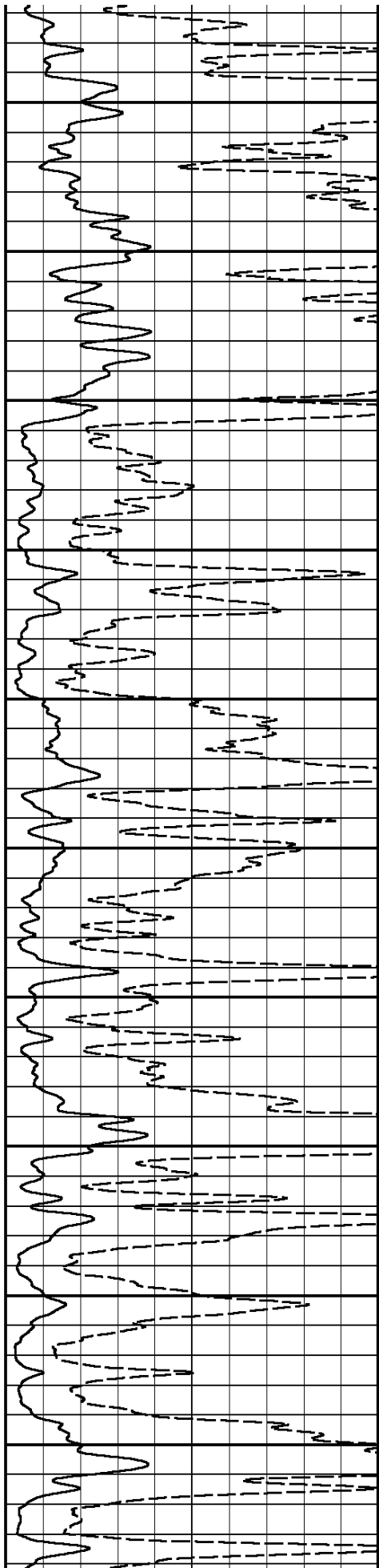
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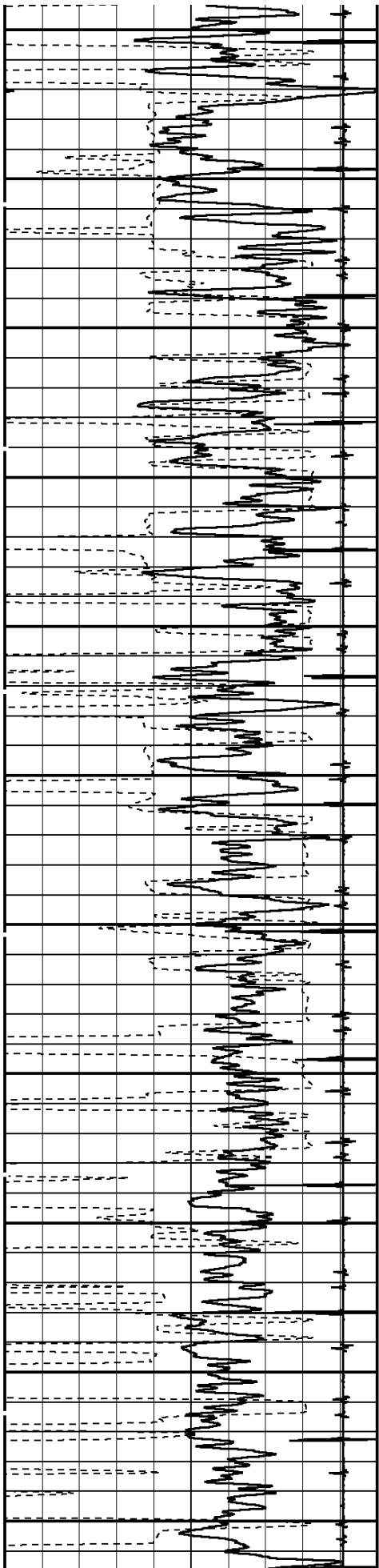
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5200

5300





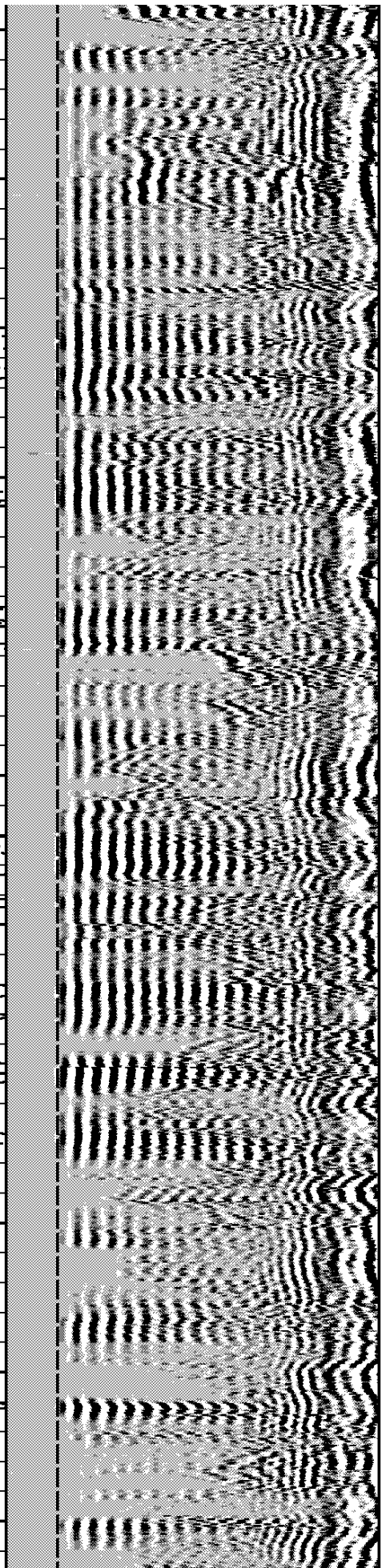
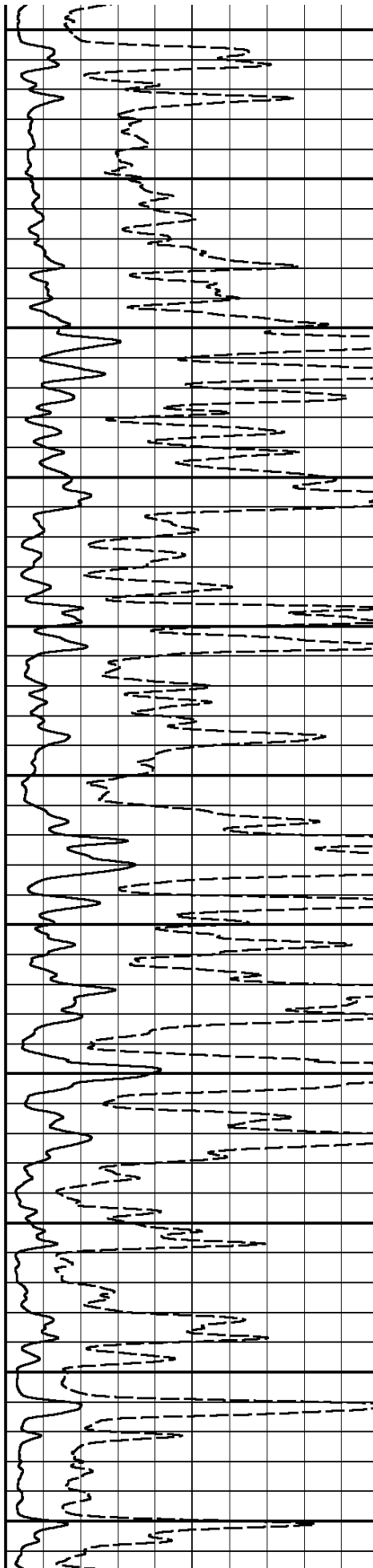
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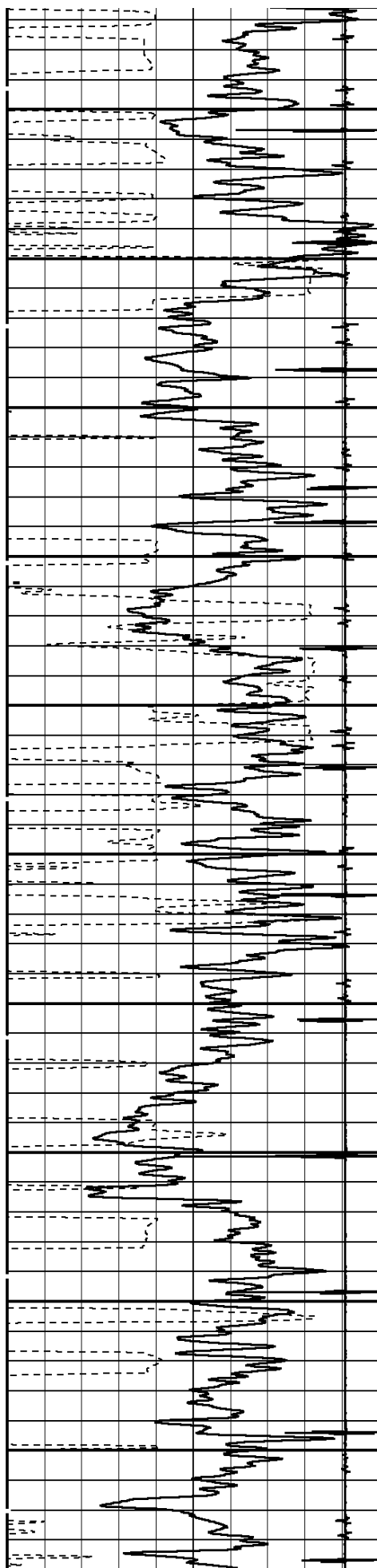
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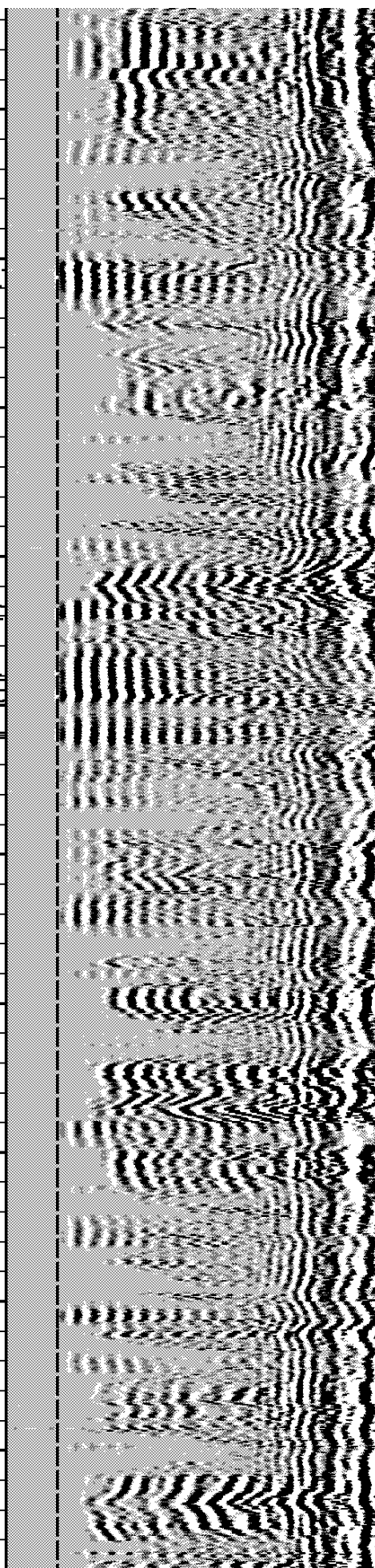
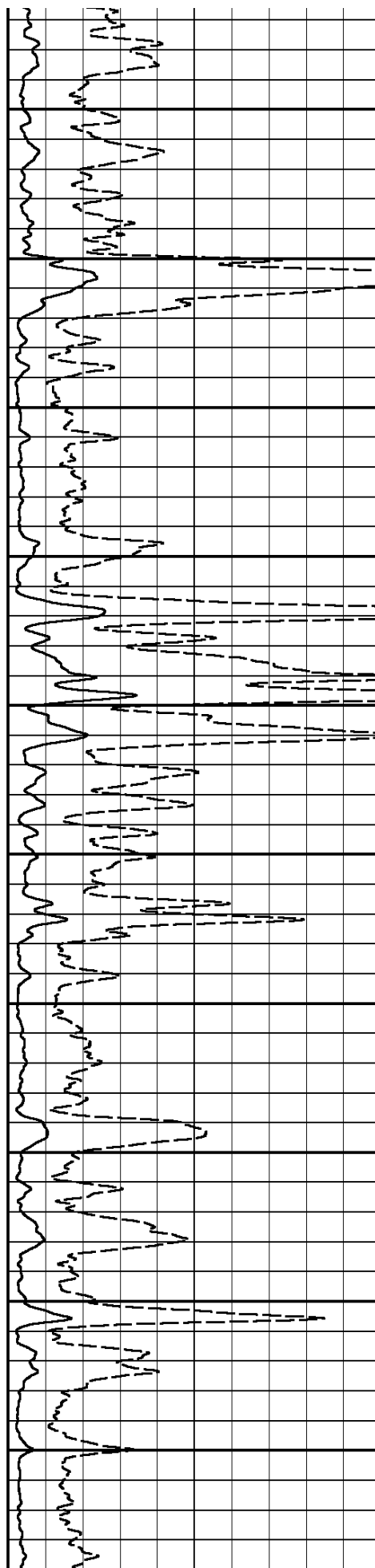
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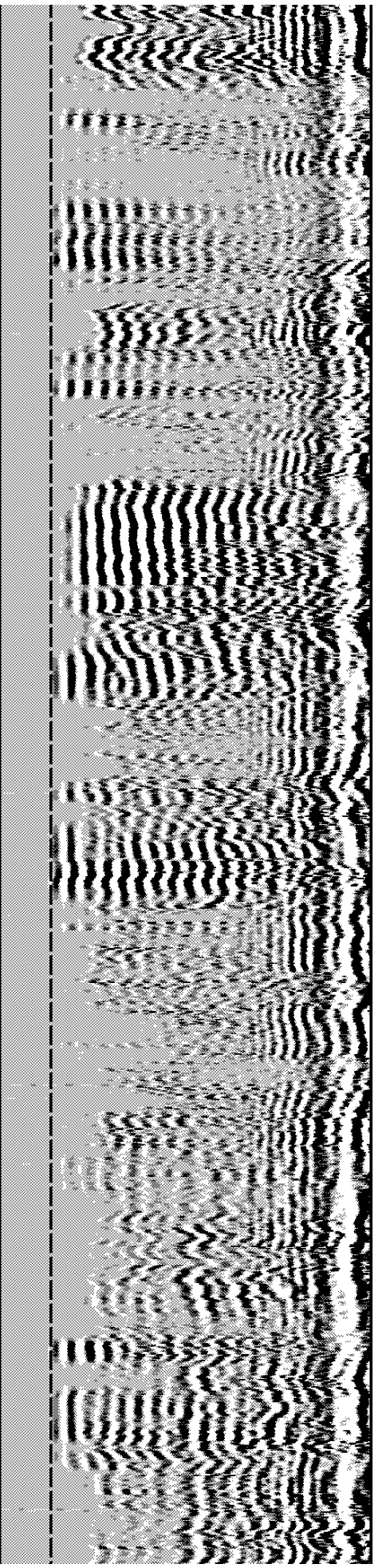
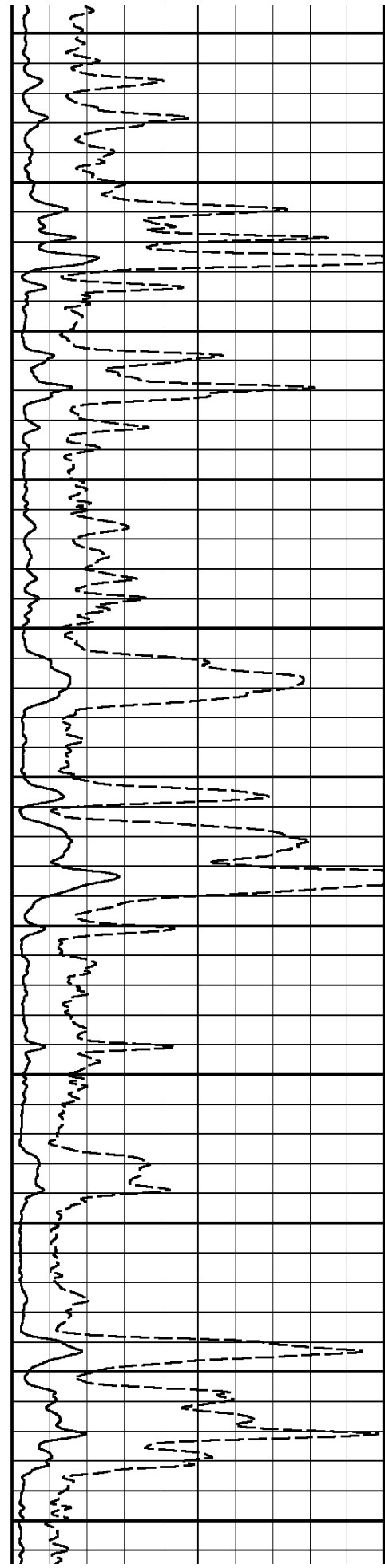
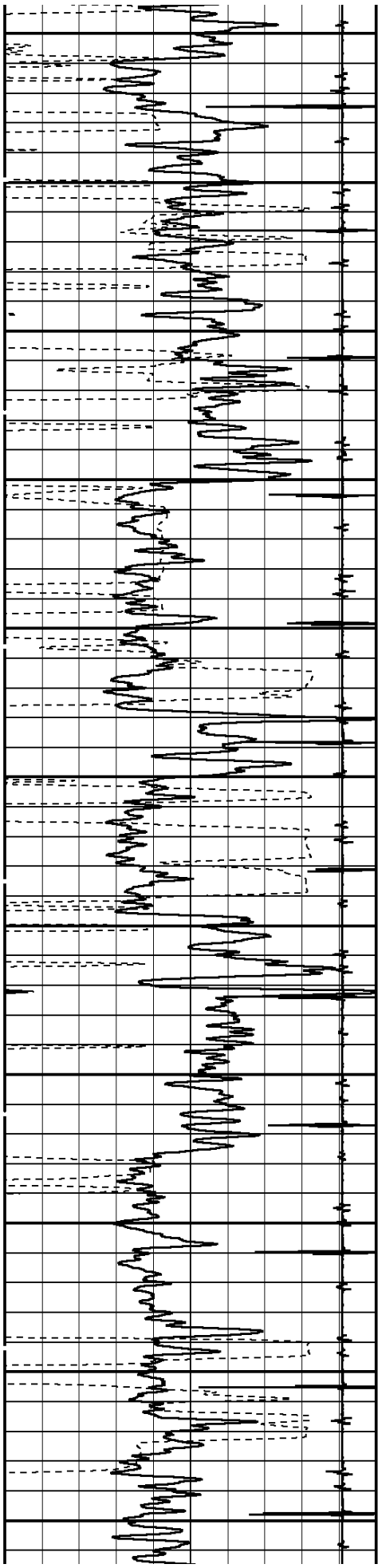
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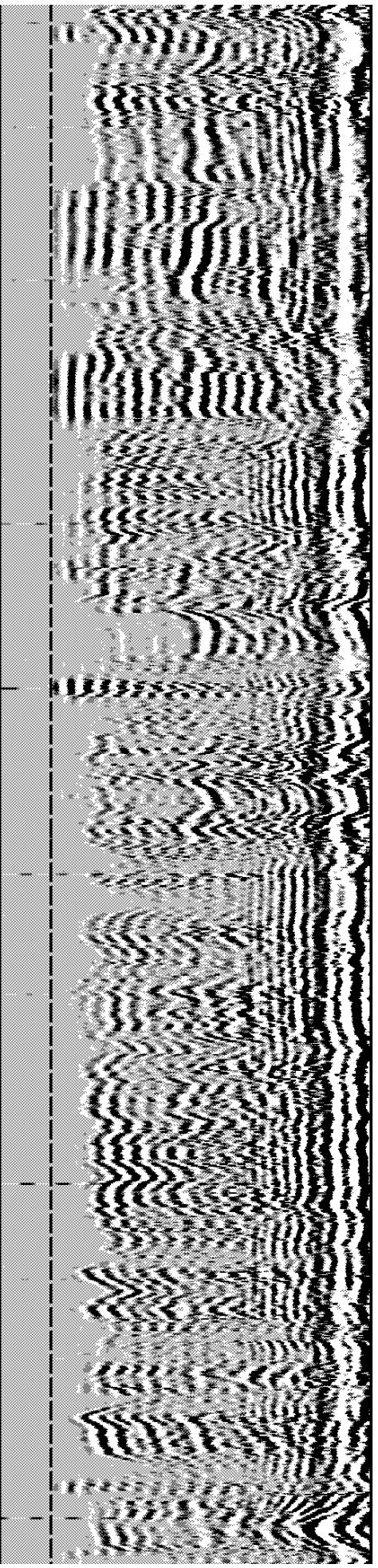
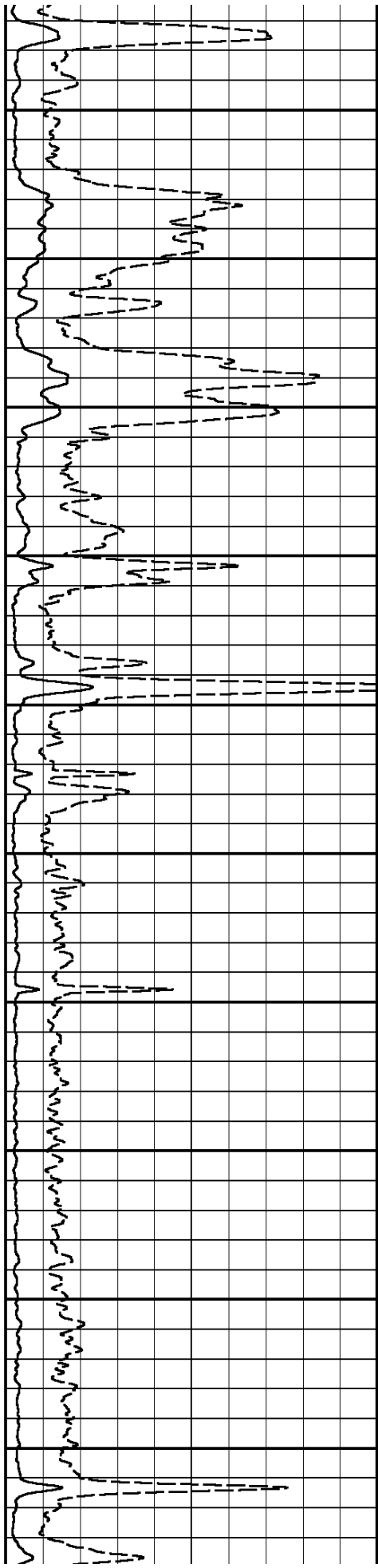
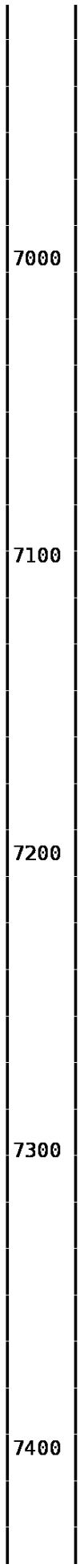
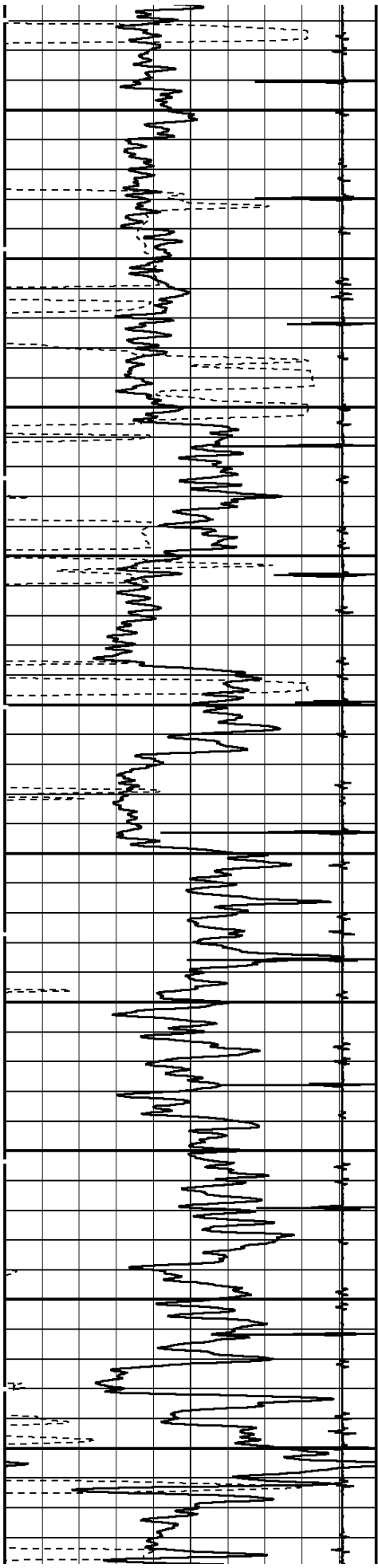
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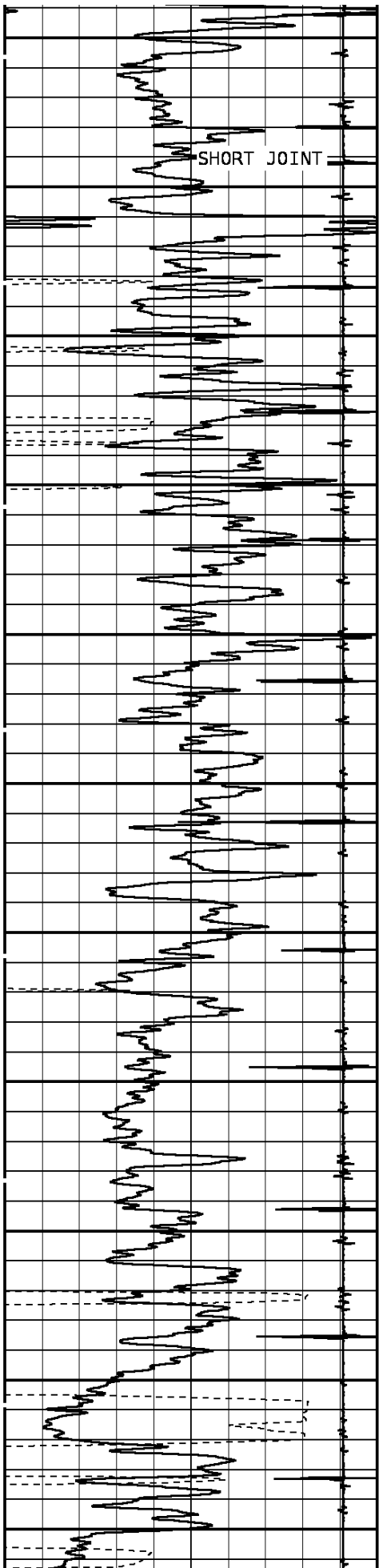
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6300









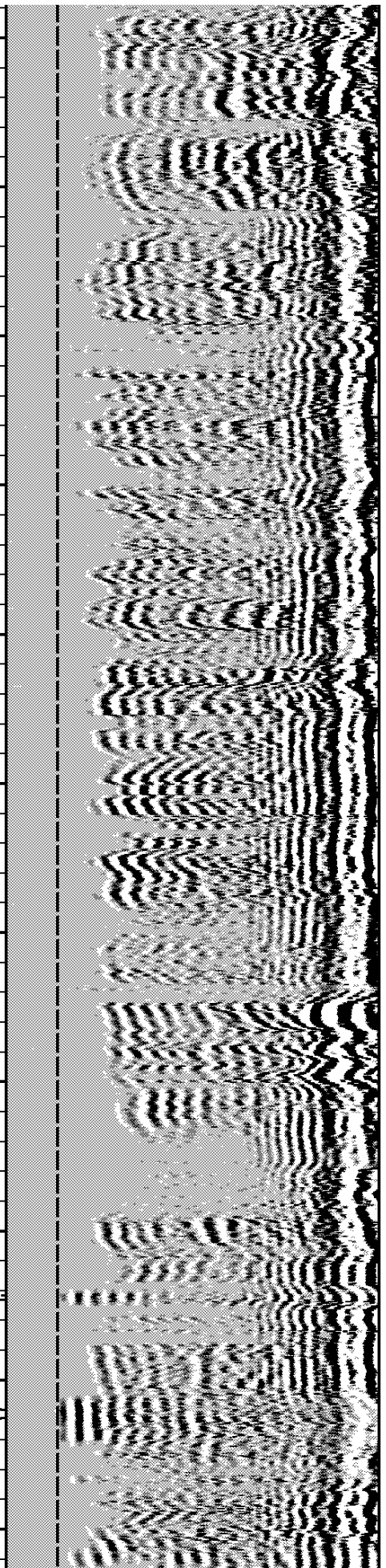
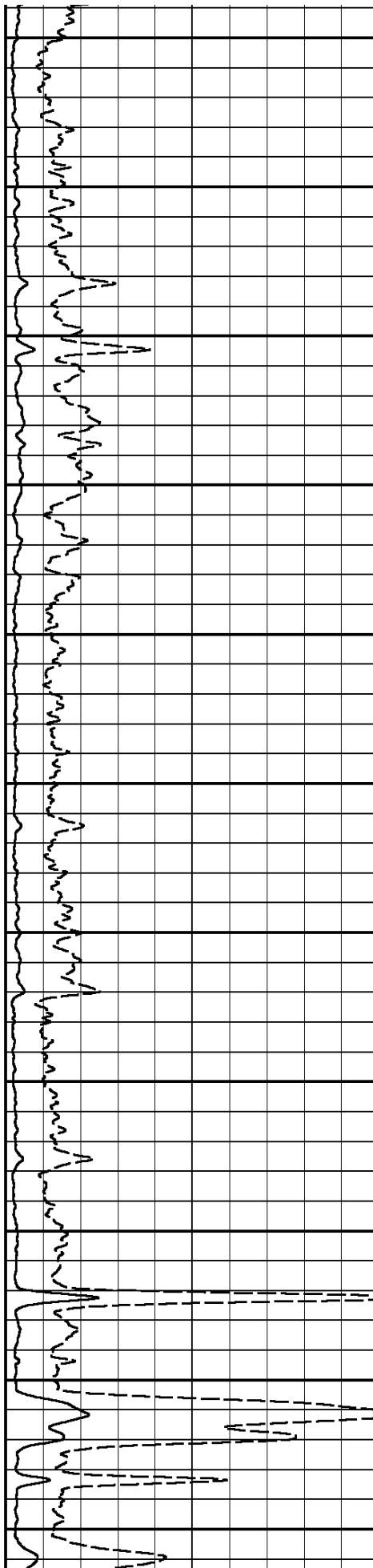
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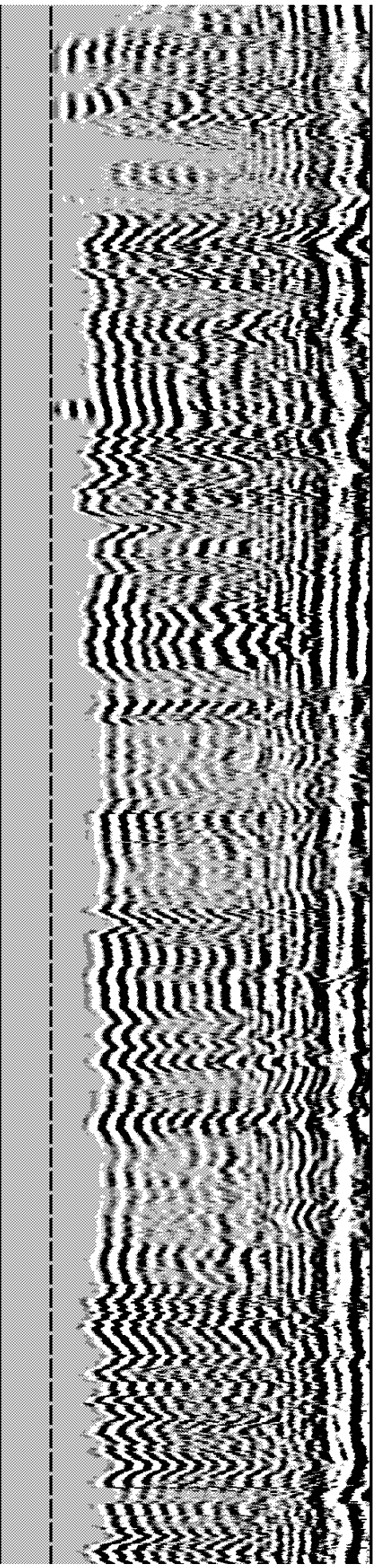
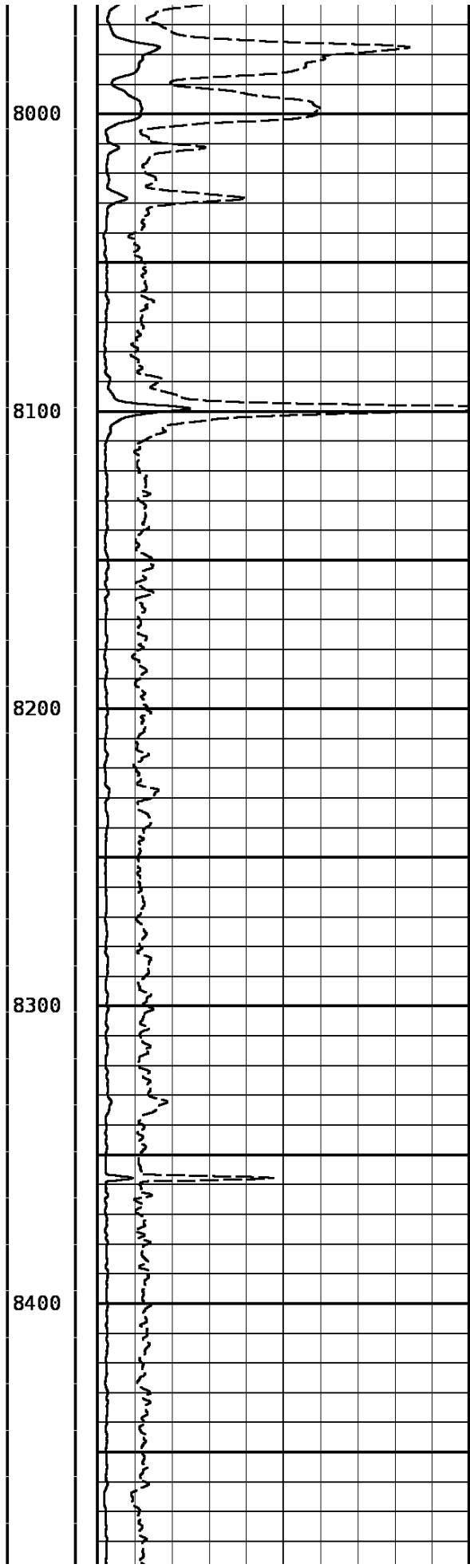
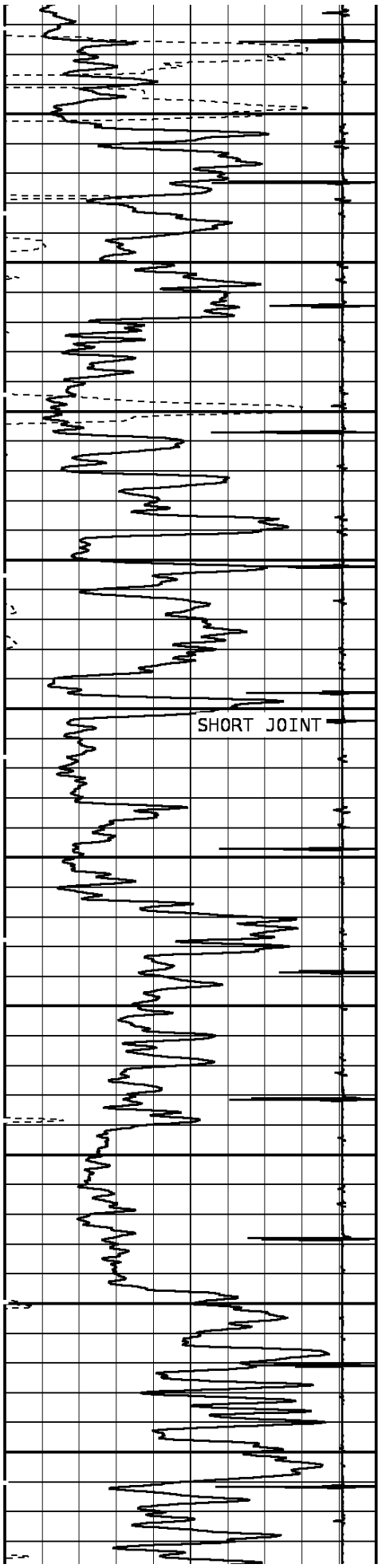
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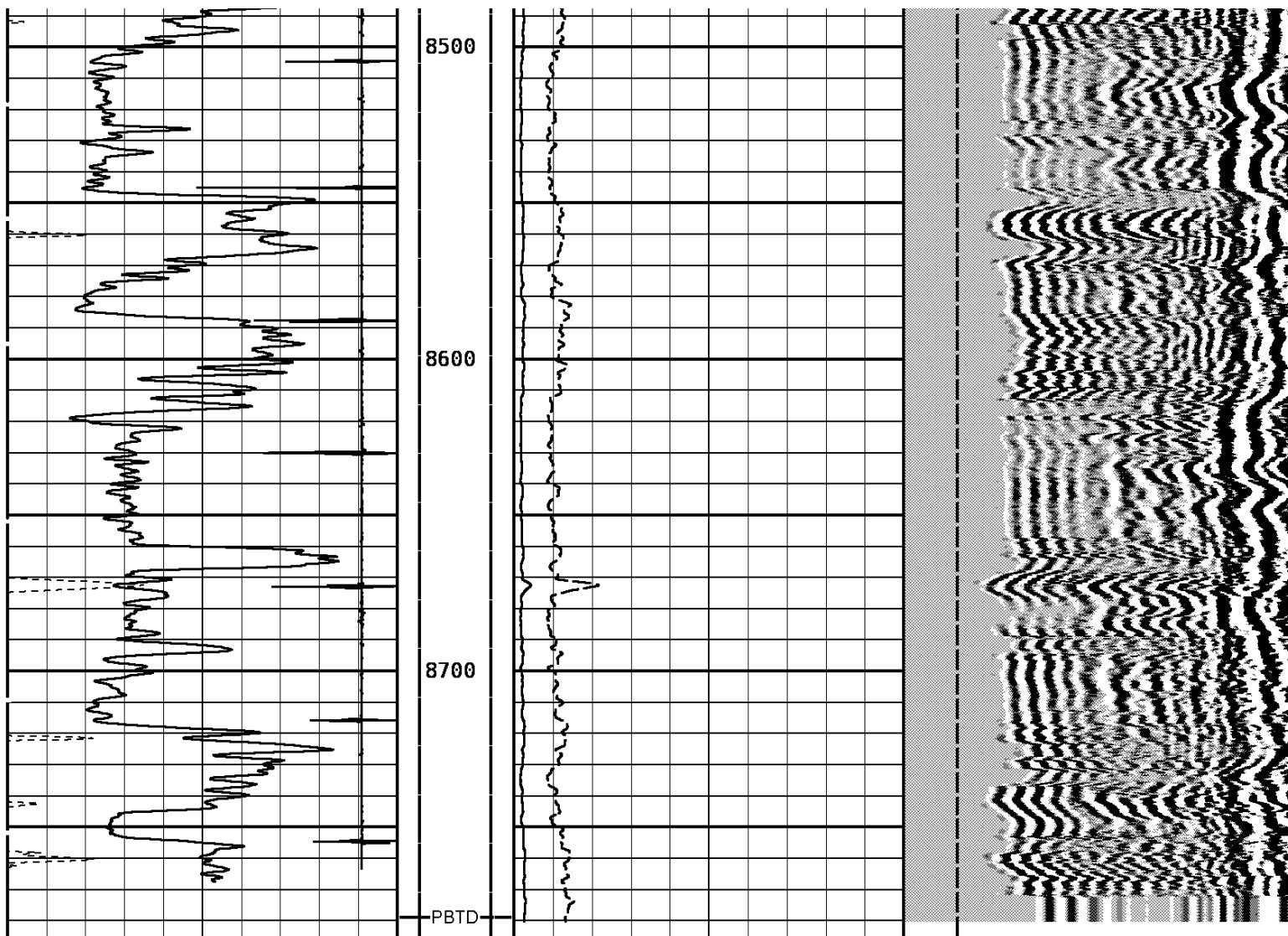
7700

7800

7900







TRAVEL TIME 3FT			AMPLITUDE 3FT			VARIABLE DENSITY 5FT		
310	Microseconds	210	0	Millivolts	100	200	Microseconds	1200
GAMMA RAY			AMPLIFIED 3FT AMP			FREE PIPE TT		
0	API	150	0	Millivolts	20	200.00	Microseconds	1200.00
COLLAR LOCATOR								
-2500	Millivolts	250						

START DEPTH: 8786.8 DIRECTION: UP DATE: 02/22/2008 TIME: 09:30 MODE: ORIGINAL								
142871 CBLMAINFIN								

MAIN PASS								
DEPTH SCALE: 2":100'						VERSION: 71217543Q"		

REMARKS	
MAIN PASS LOGGED WITHOUT PRESSURE	

MAIN PASS	
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142871 CBLMAINFIN

FINISH DEPTH: **440.8** Feet DIRECTION: **UP** DATE: **02/22/2008** TIME: **09:58** MODE: **RECOMPUTE**

RECOMPUTED DATE: **02/22/2008** TIME: **09:58**

COLLAR LOCATOR	
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-2500	Millivolts	250
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0	API	150
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310 Microseconds 210

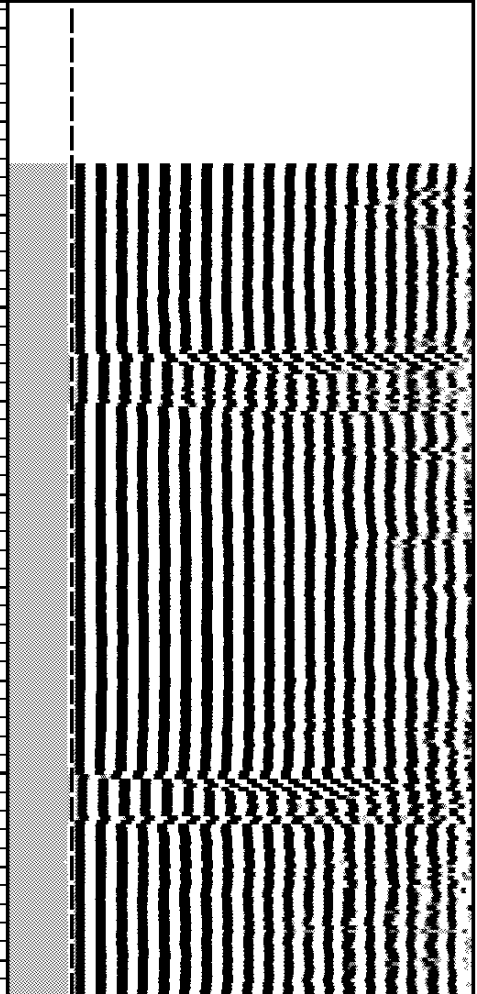
0 Millivolts 20

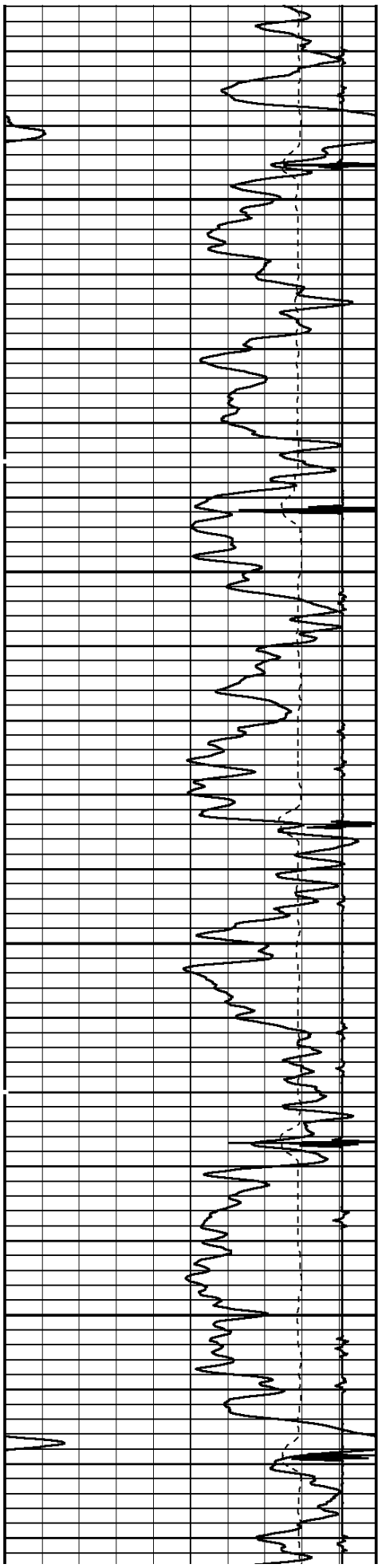
0	Millivolts	100
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200.00	Microseconds	1200.00
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200	Microseconds	1200
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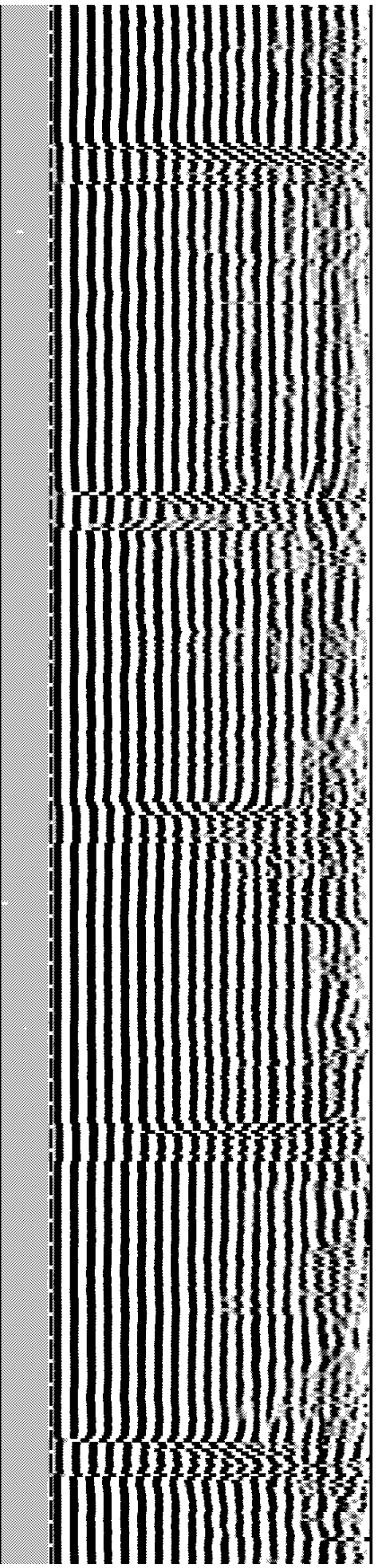
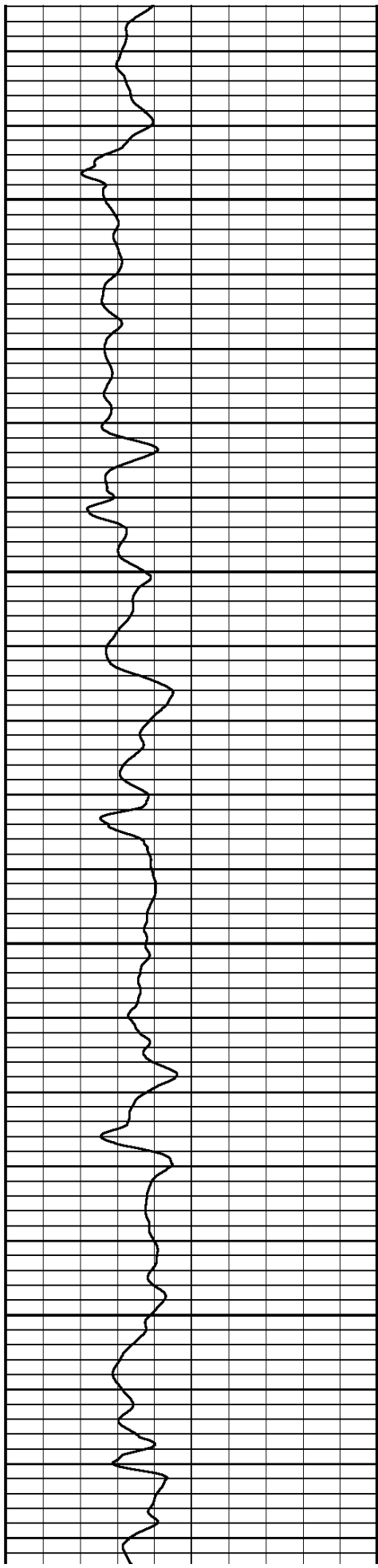
The graph shows a line that starts at the bottom left, rises to a peak, and then fluctuates at a higher level. The line is drawn on a grid with a vertical axis on the left and a horizontal axis at the bottom. The line starts at the bottom left, rises to a peak, and then fluctuates at a higher level.

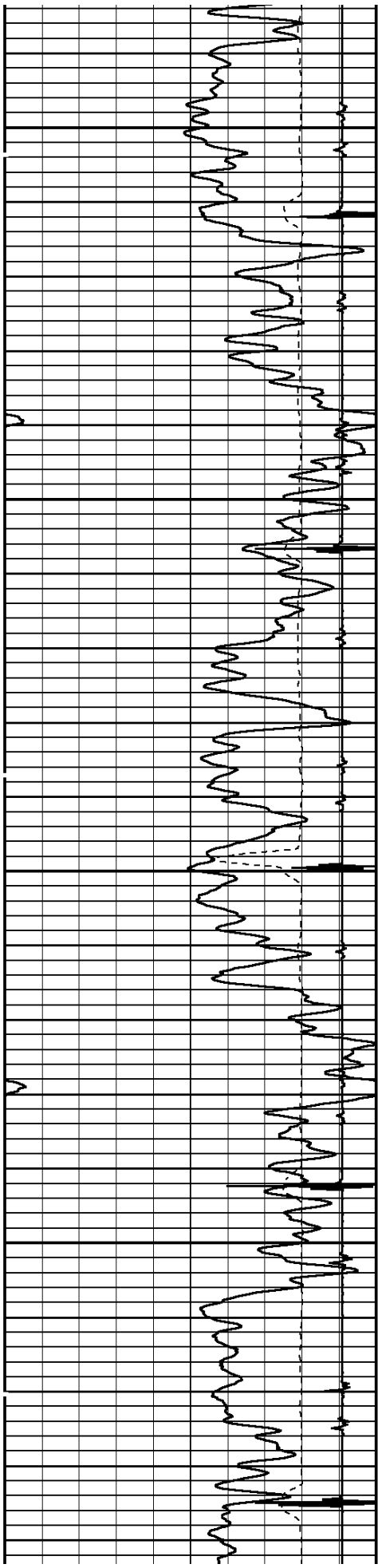




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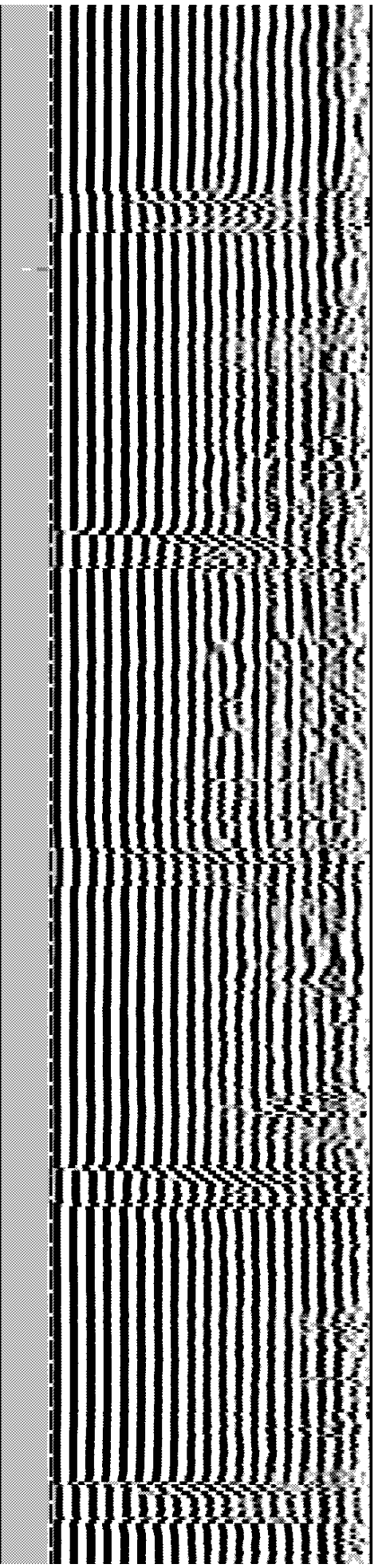
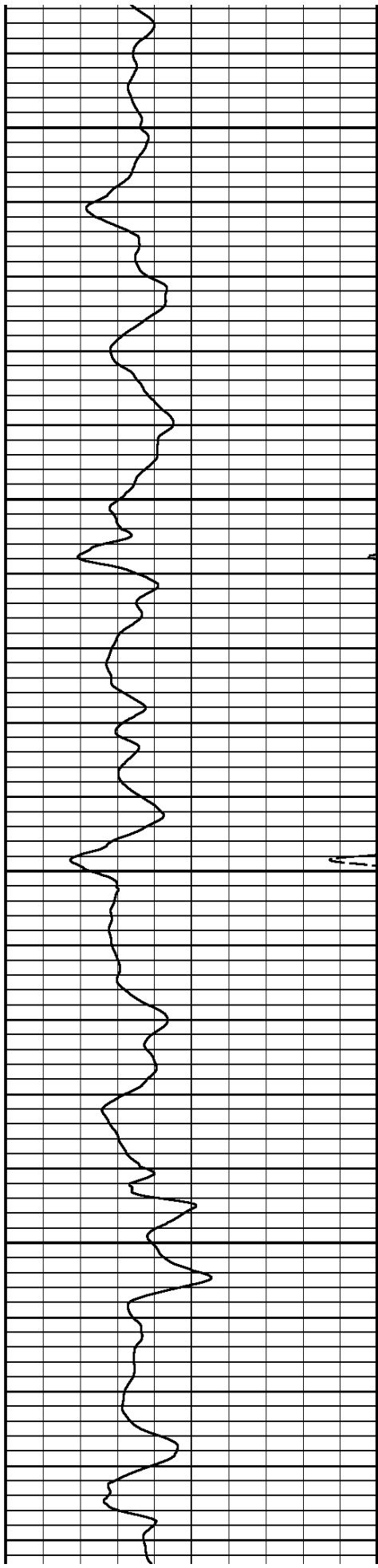
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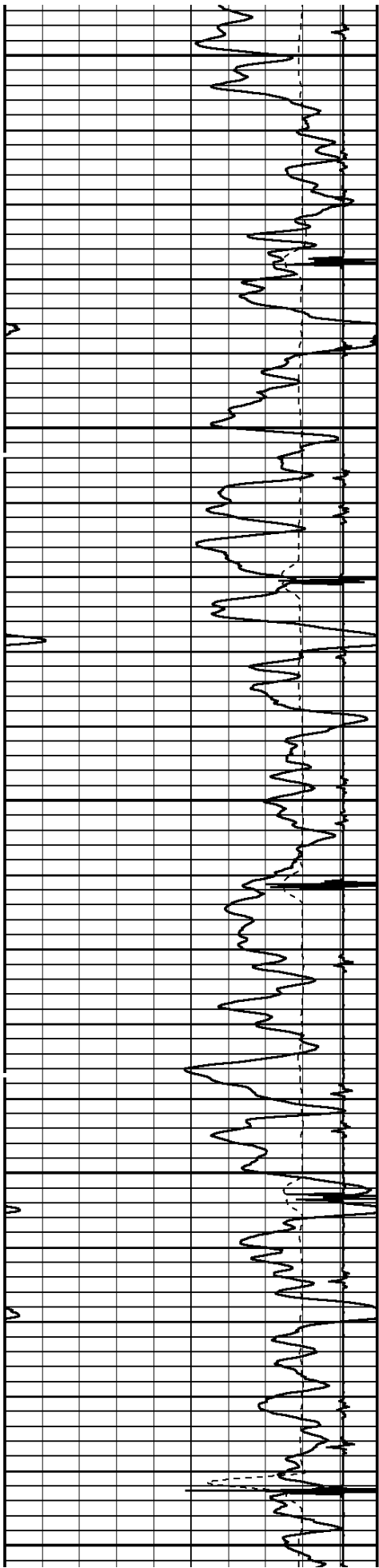




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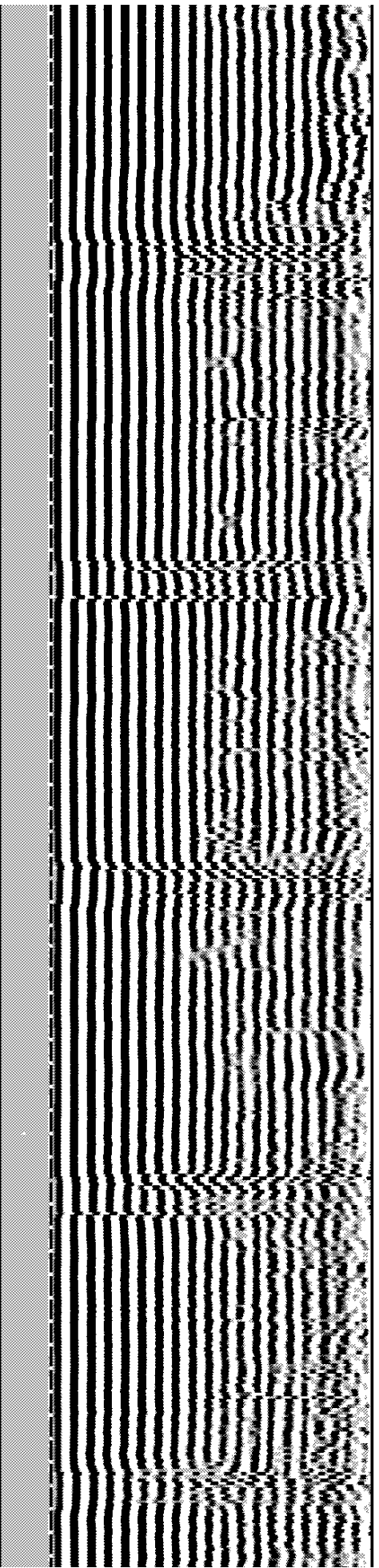
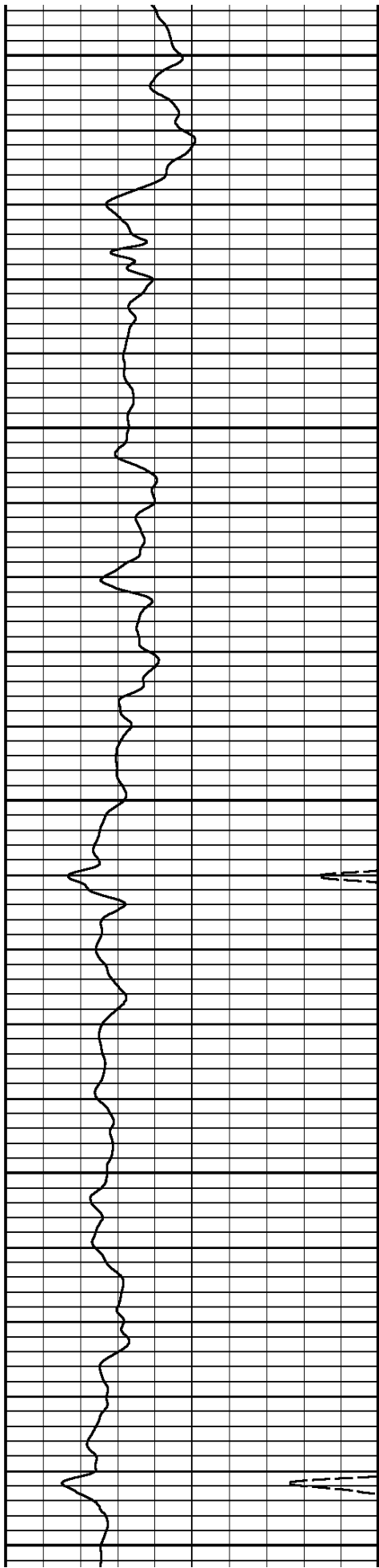
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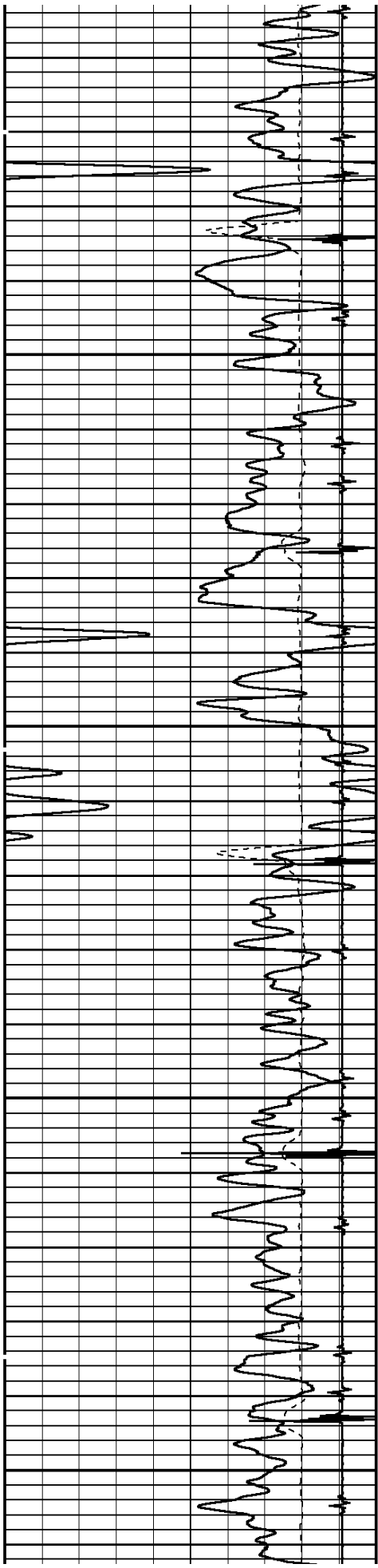




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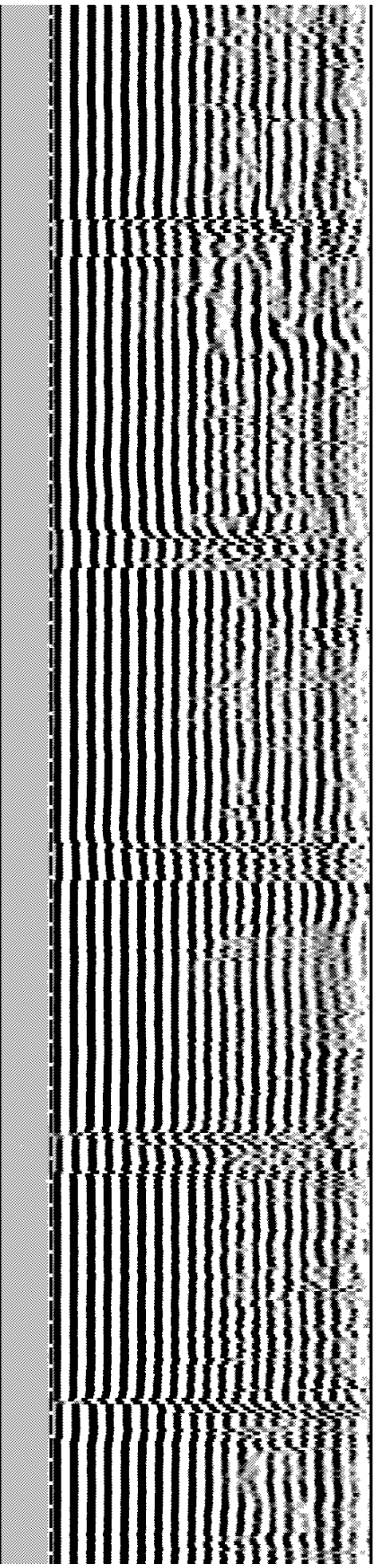
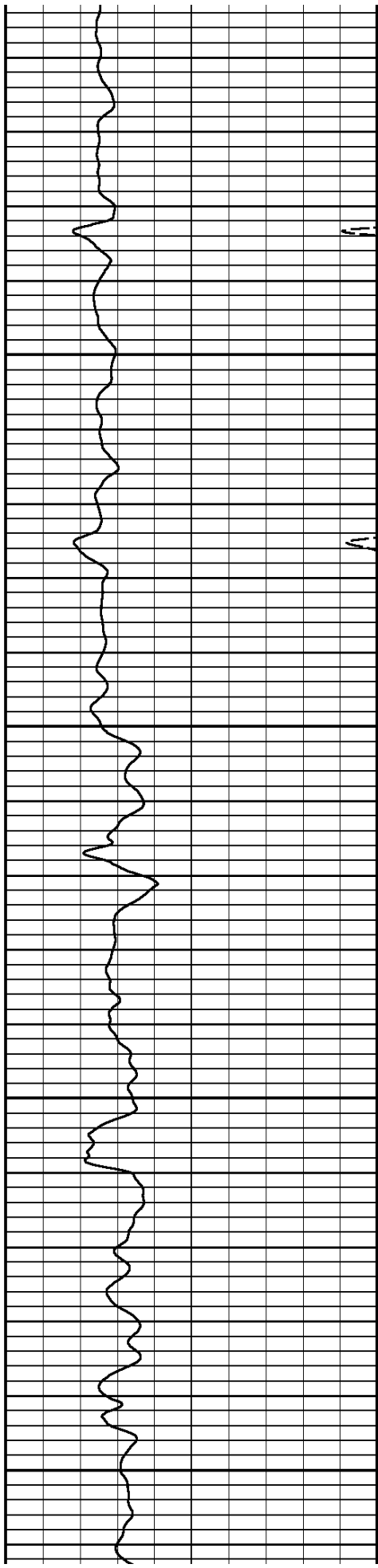
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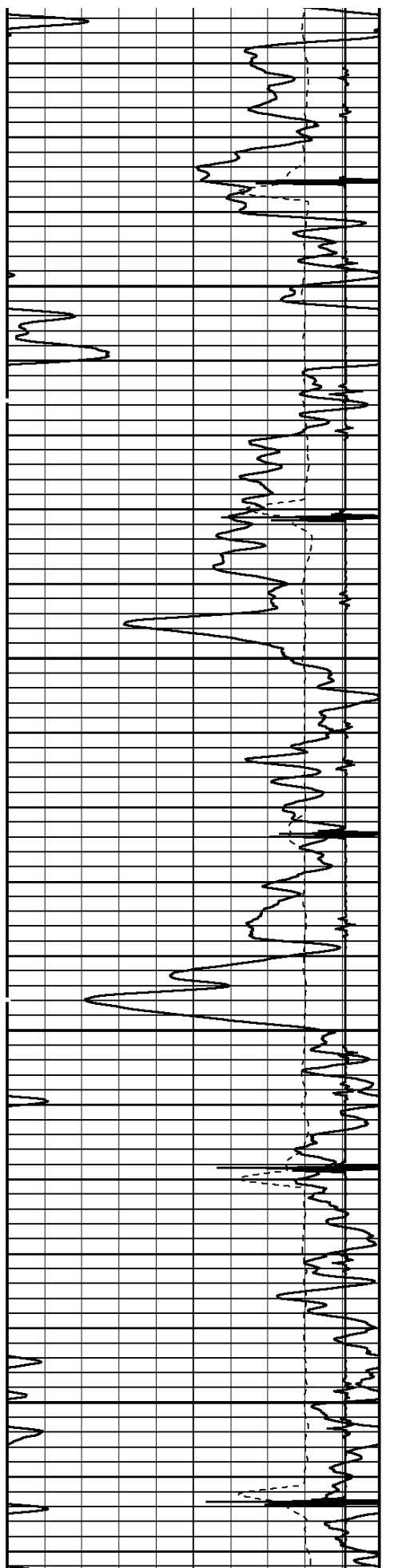




1200

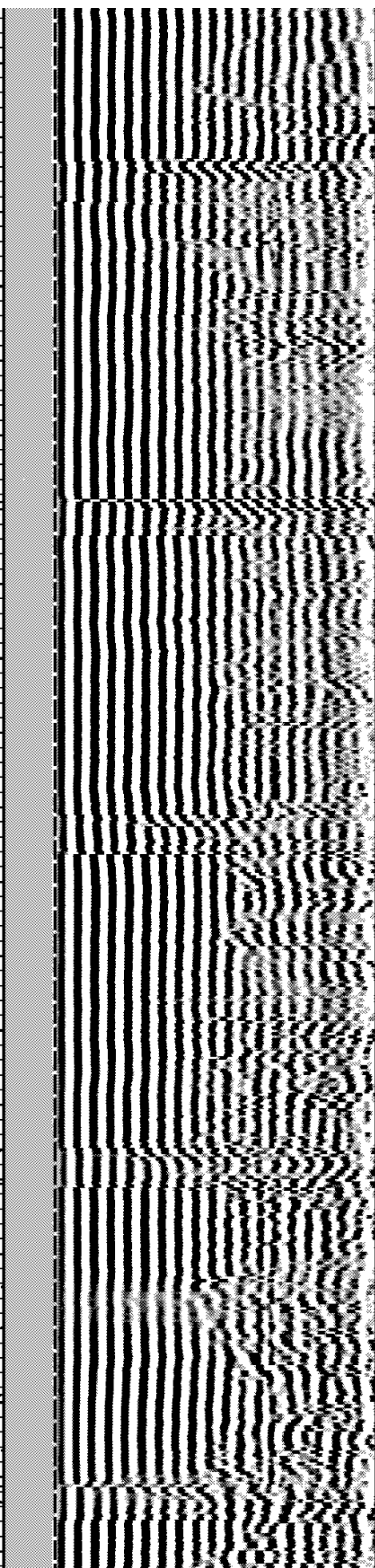
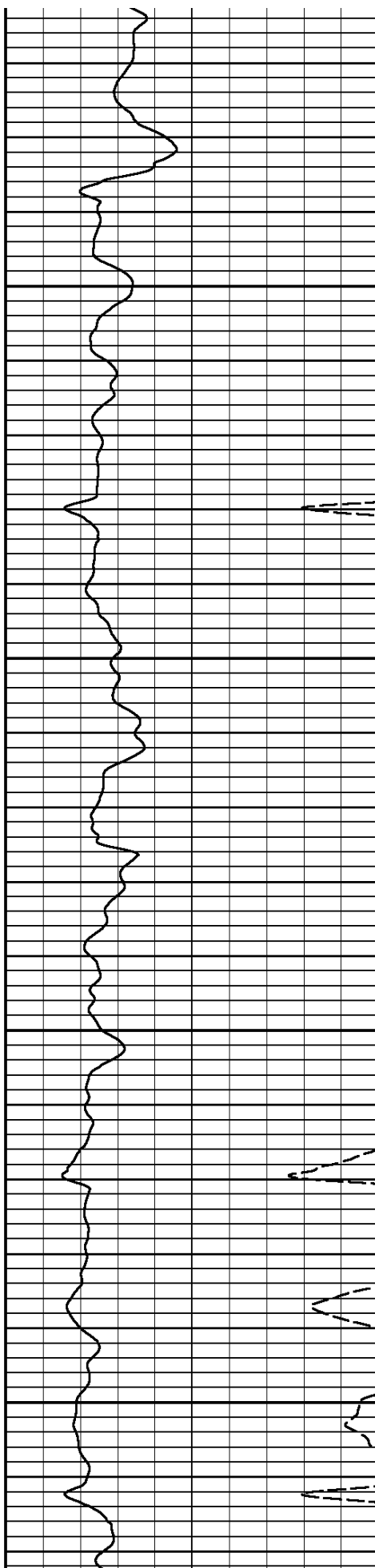
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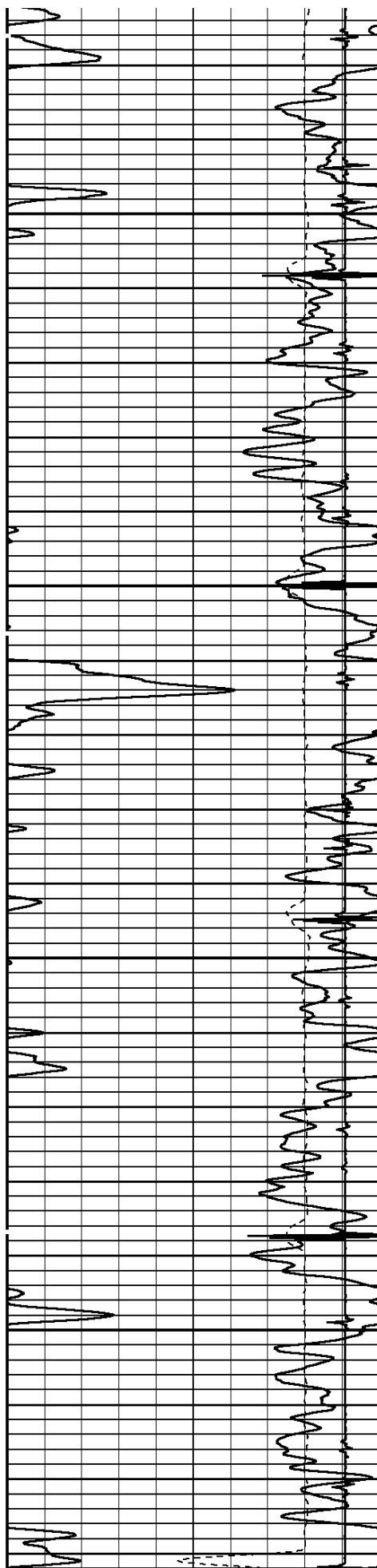




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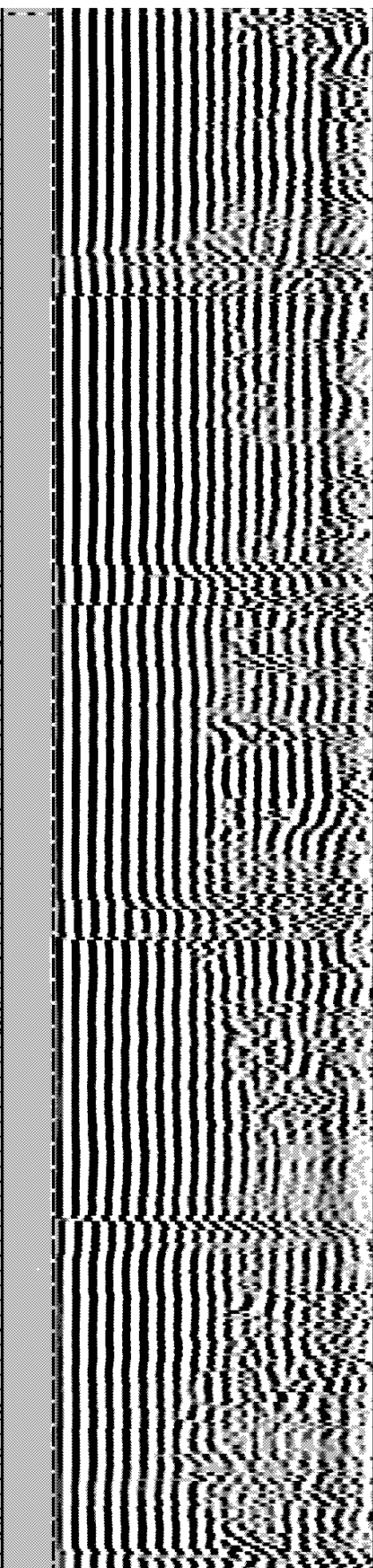
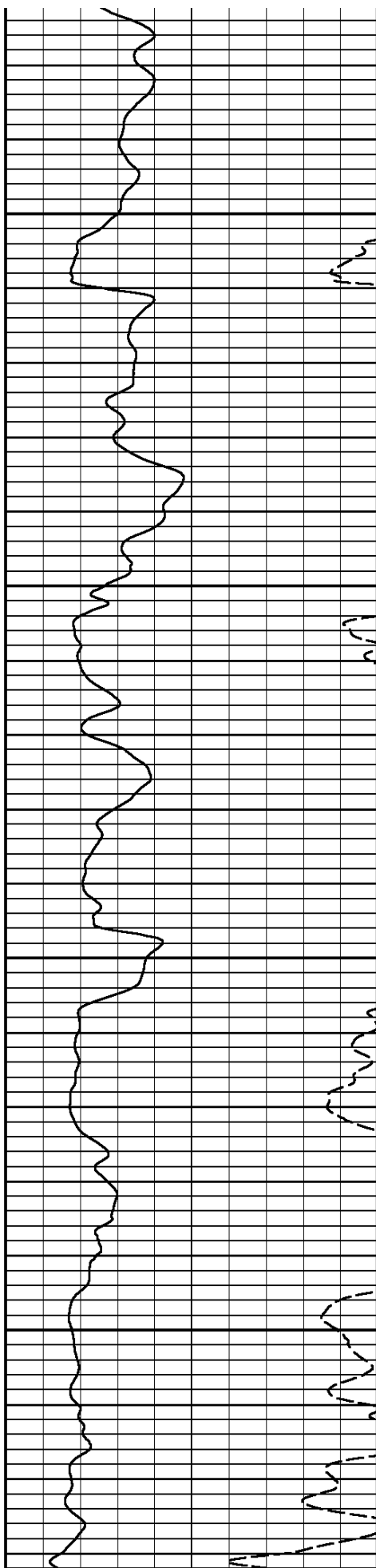
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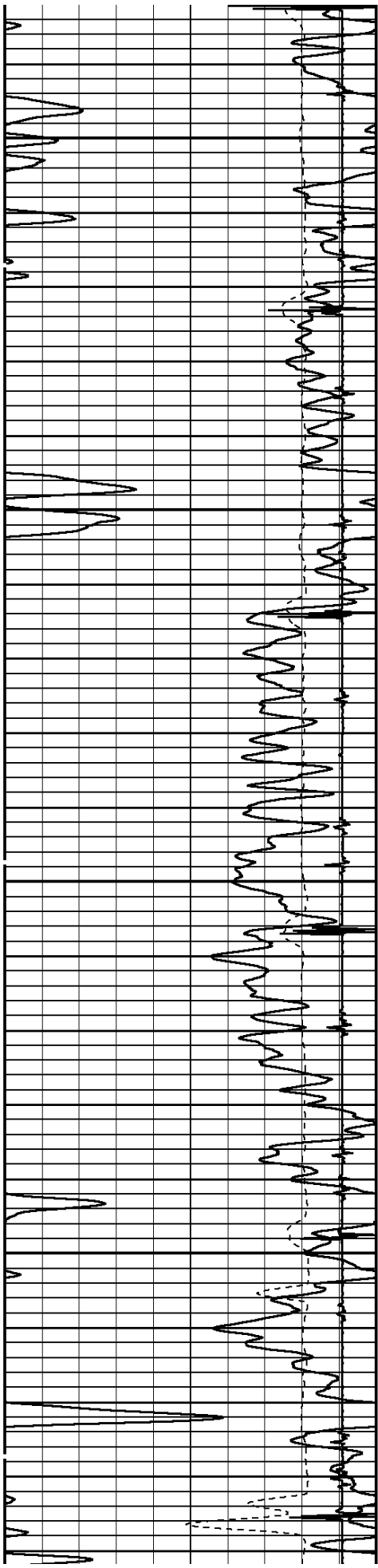




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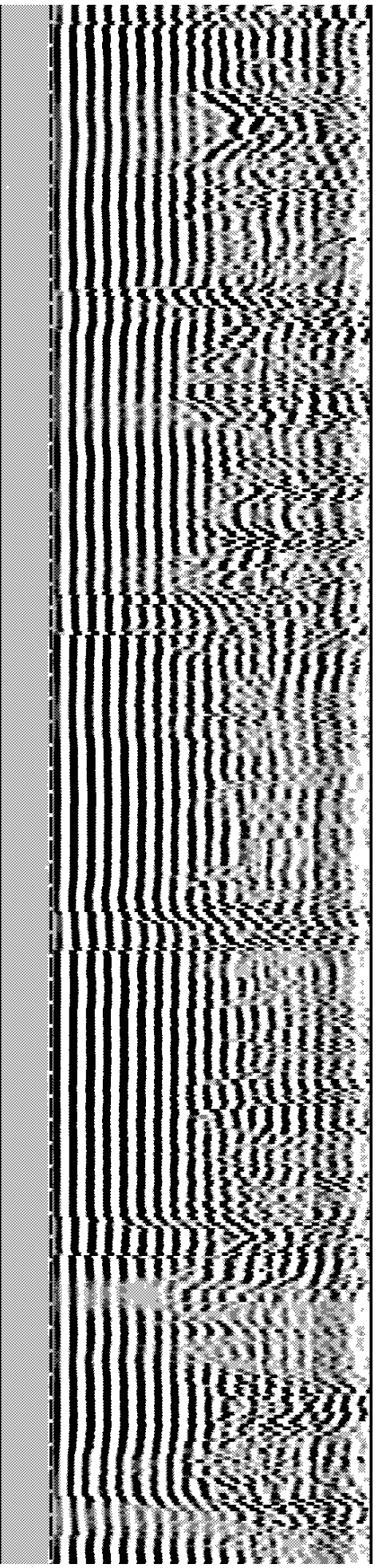
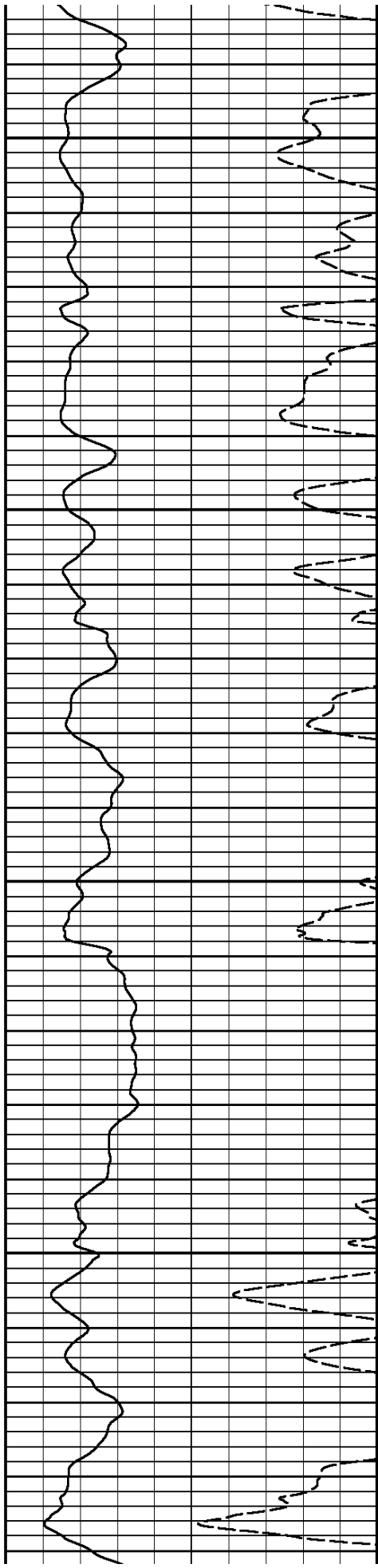
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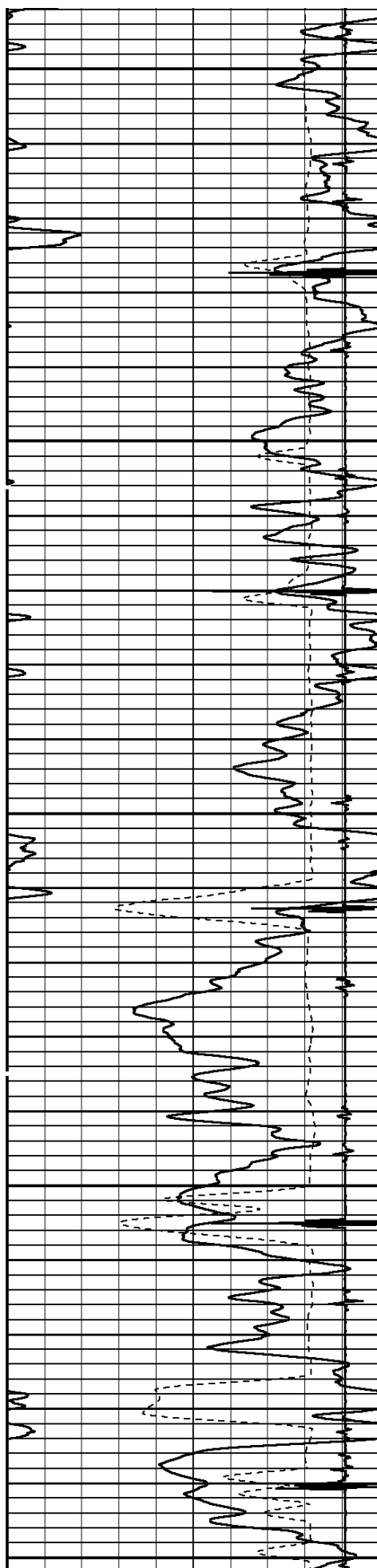




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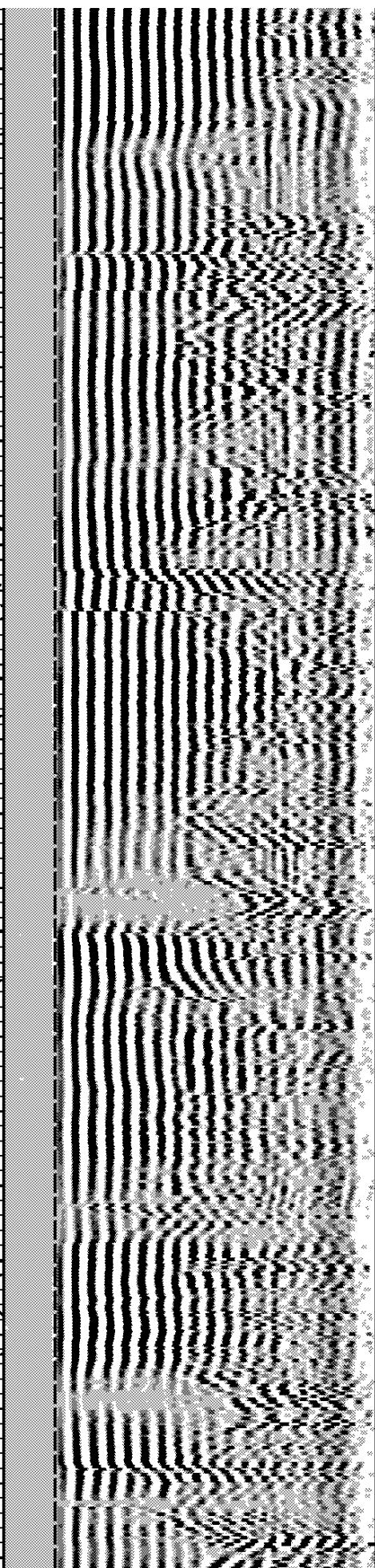
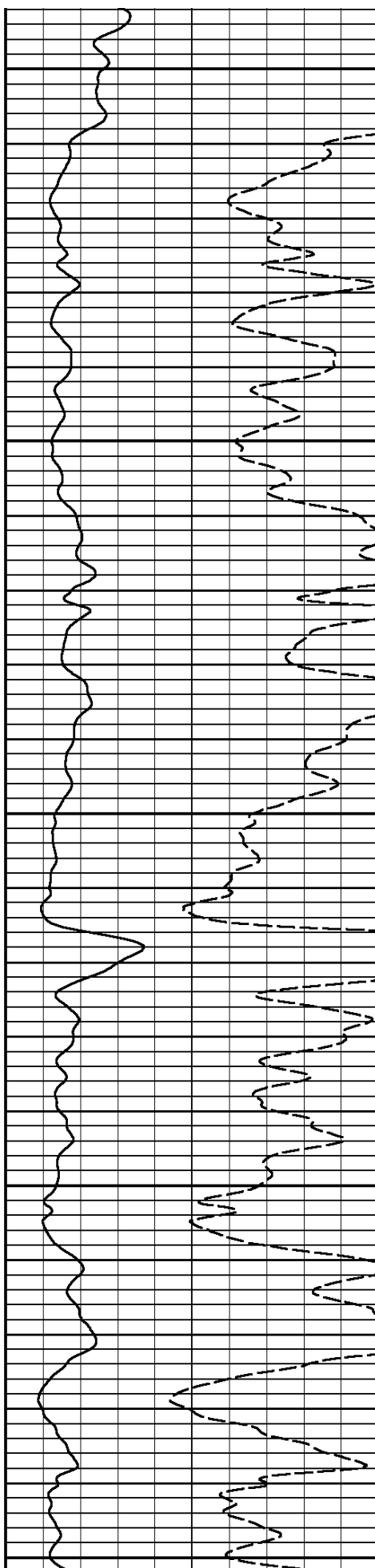


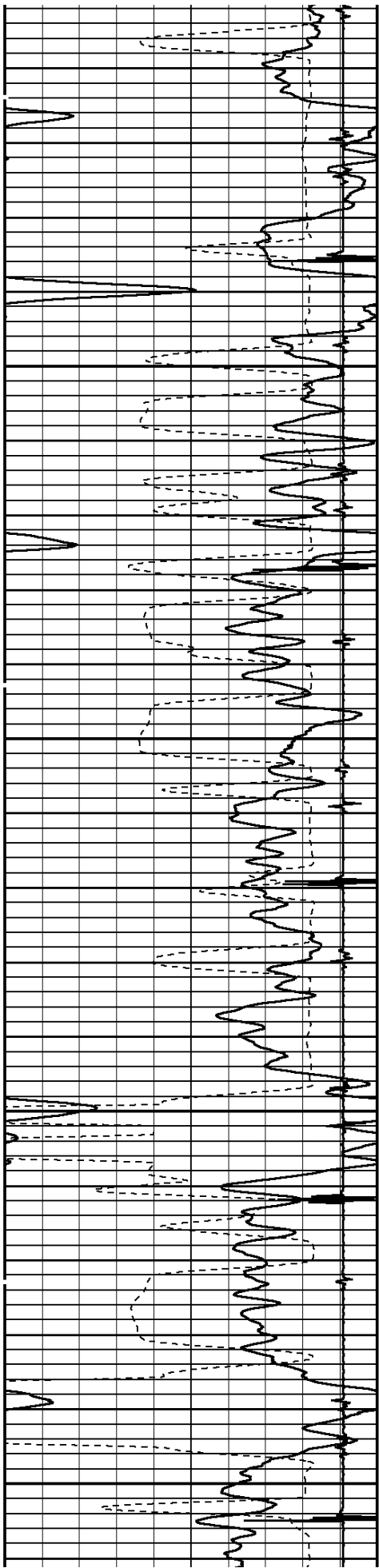


2000

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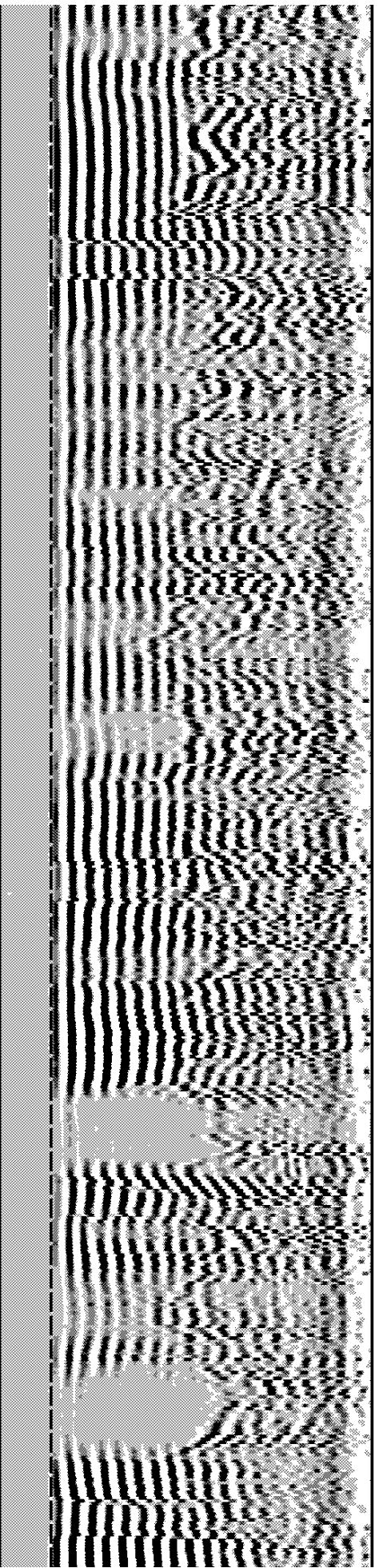
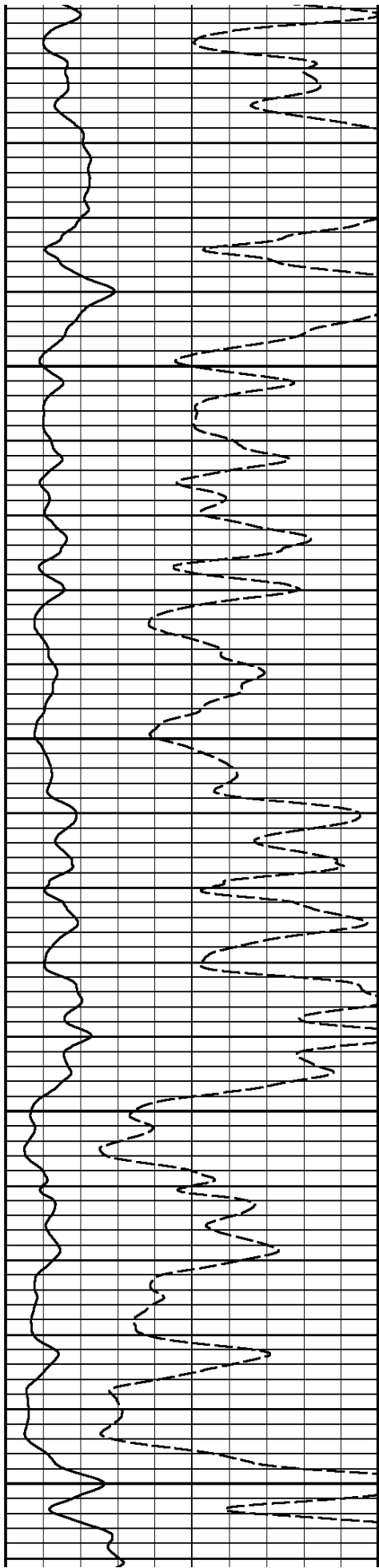
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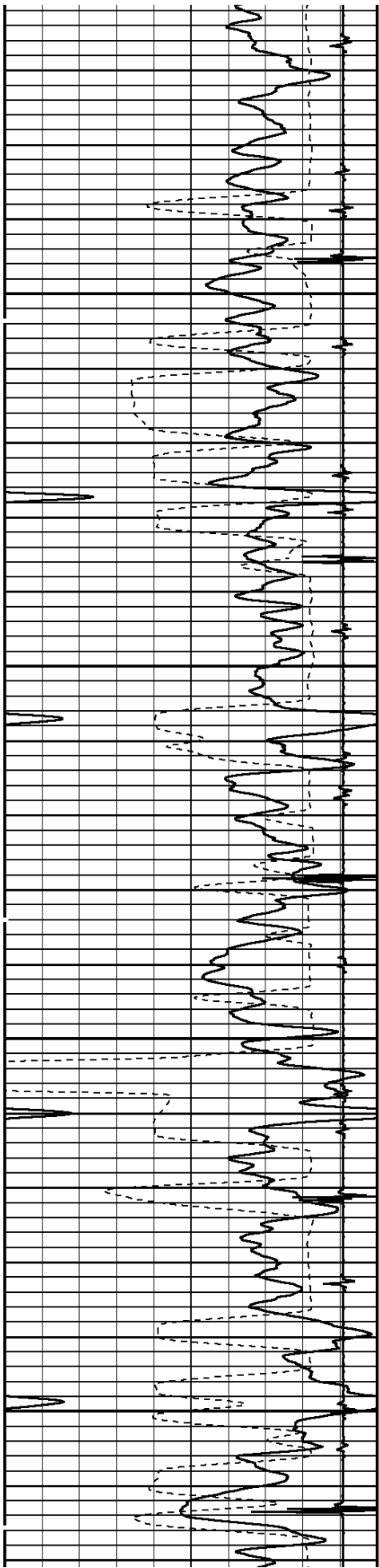




2300

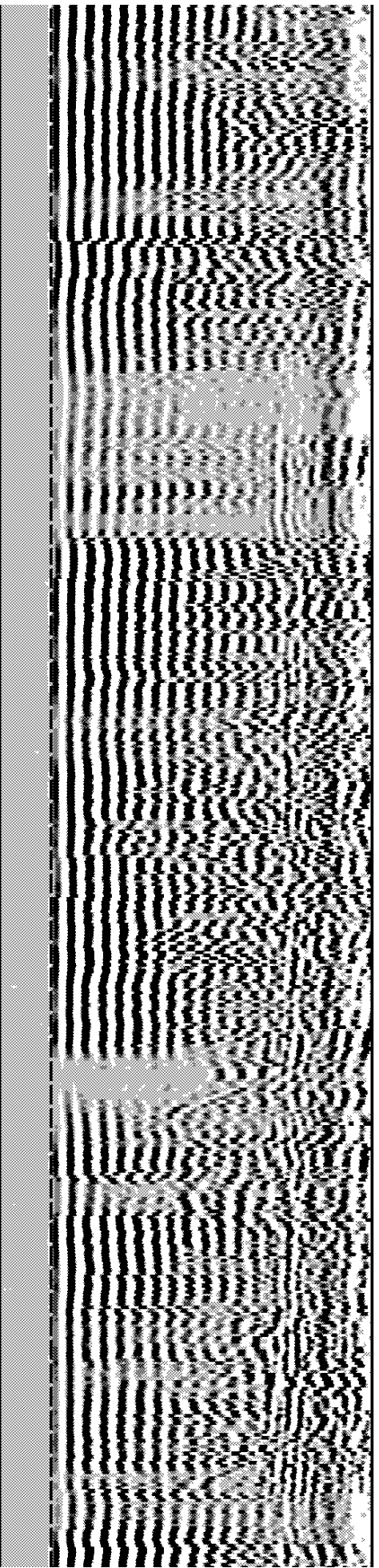
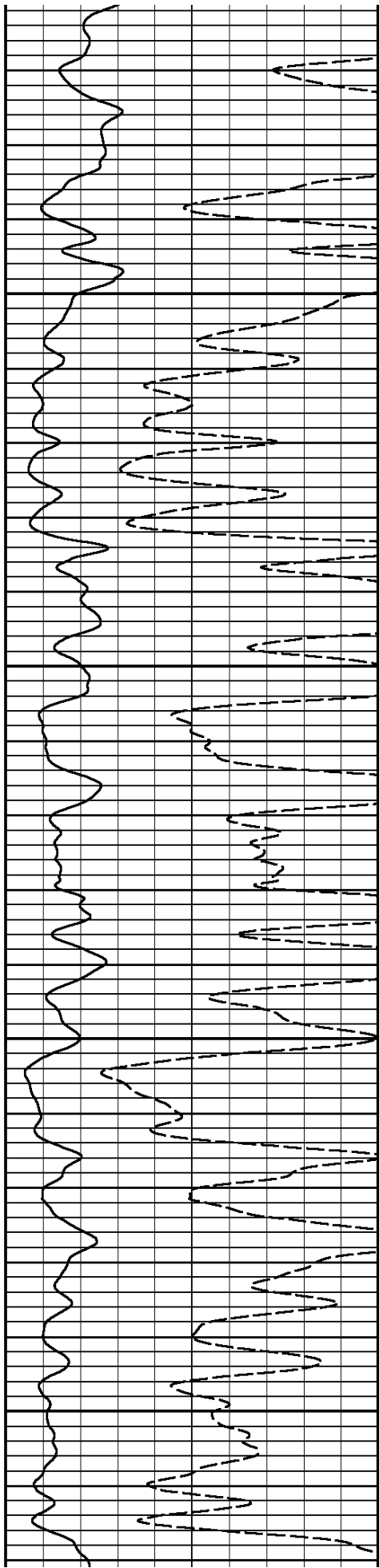
2400

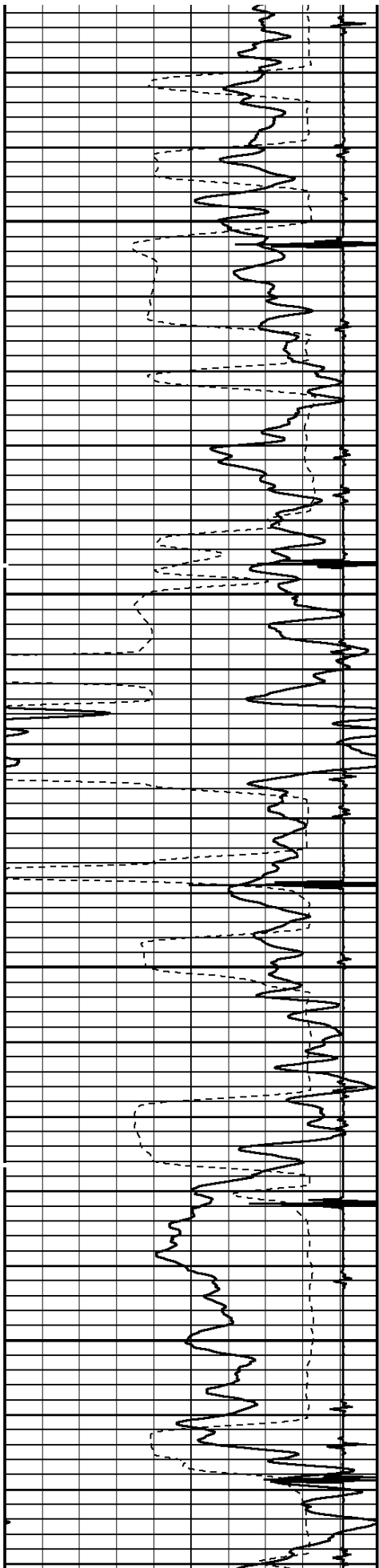




2500

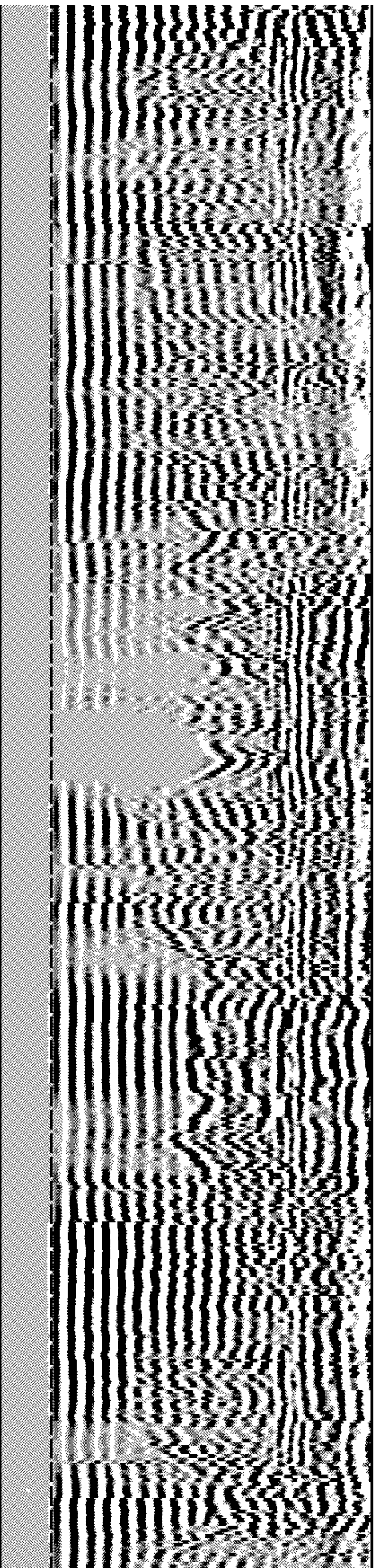
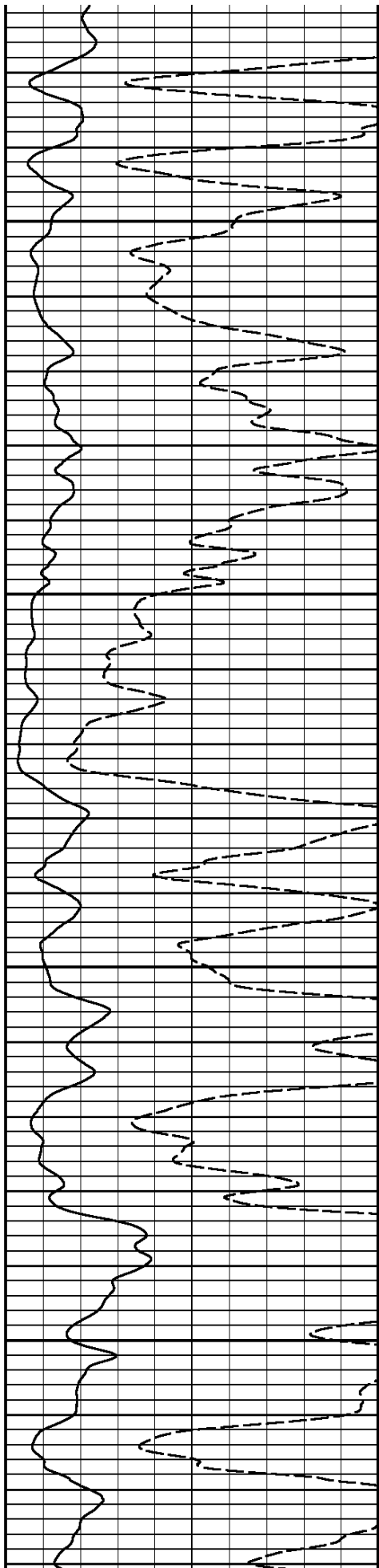
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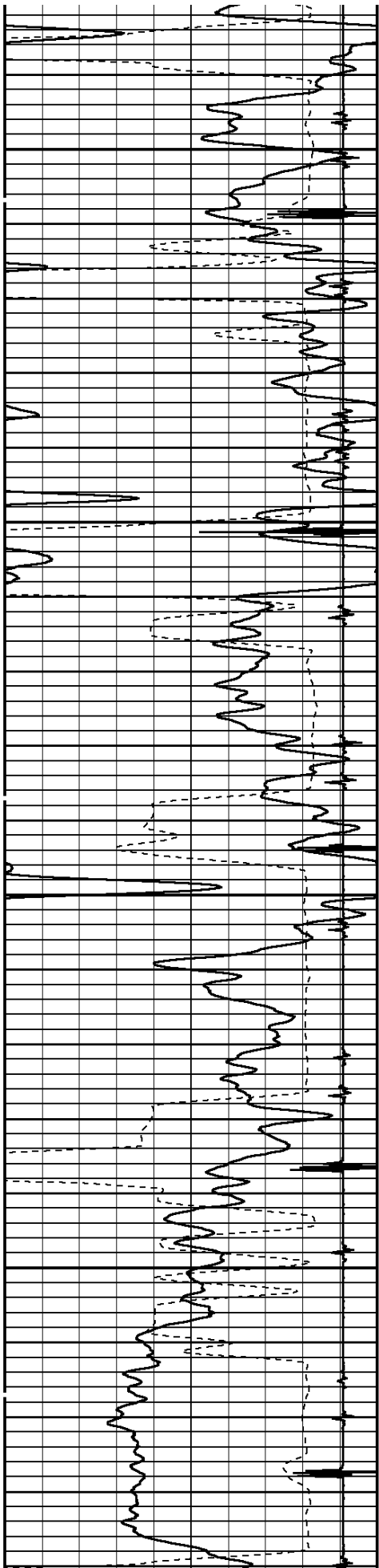




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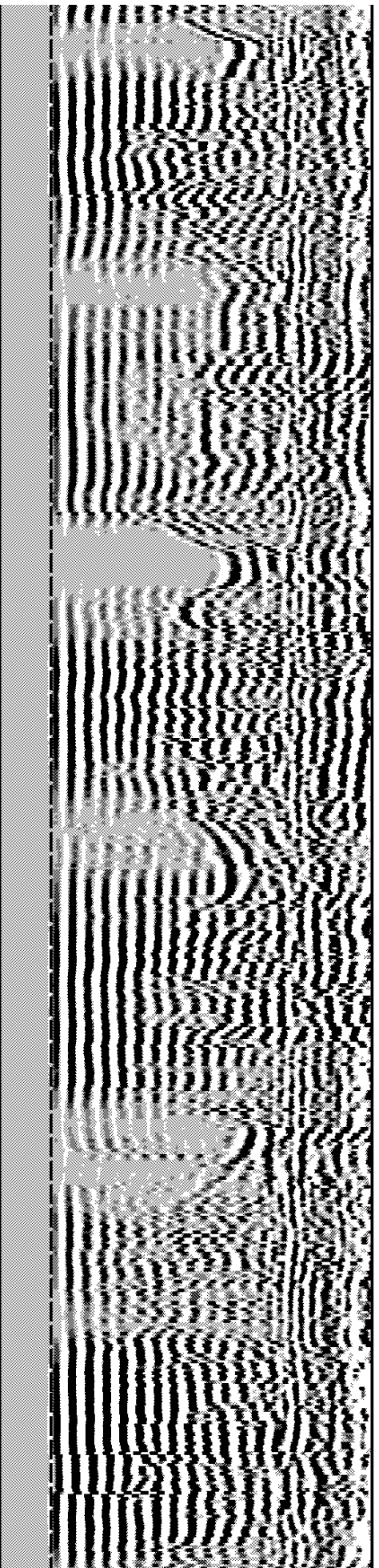
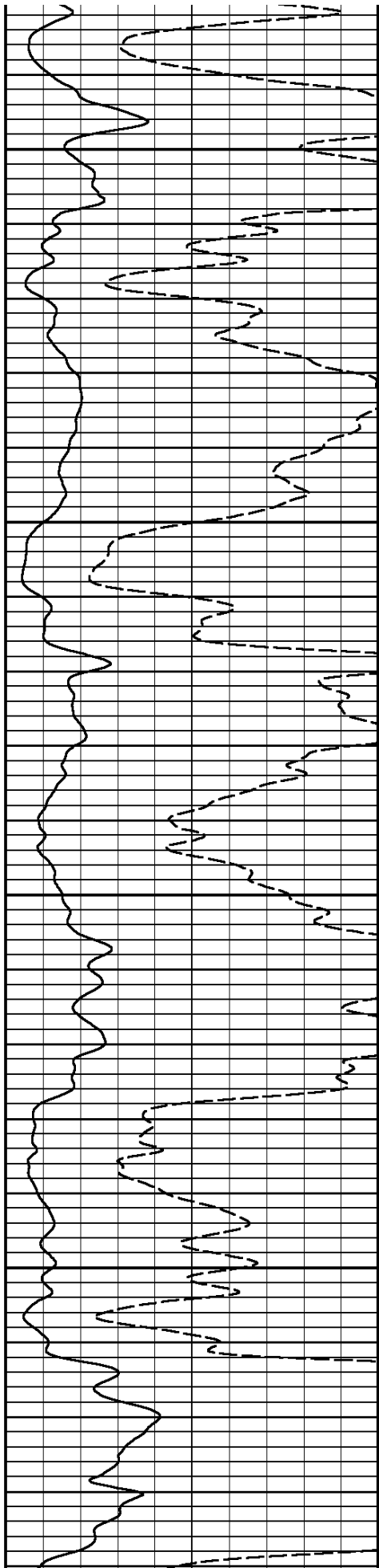
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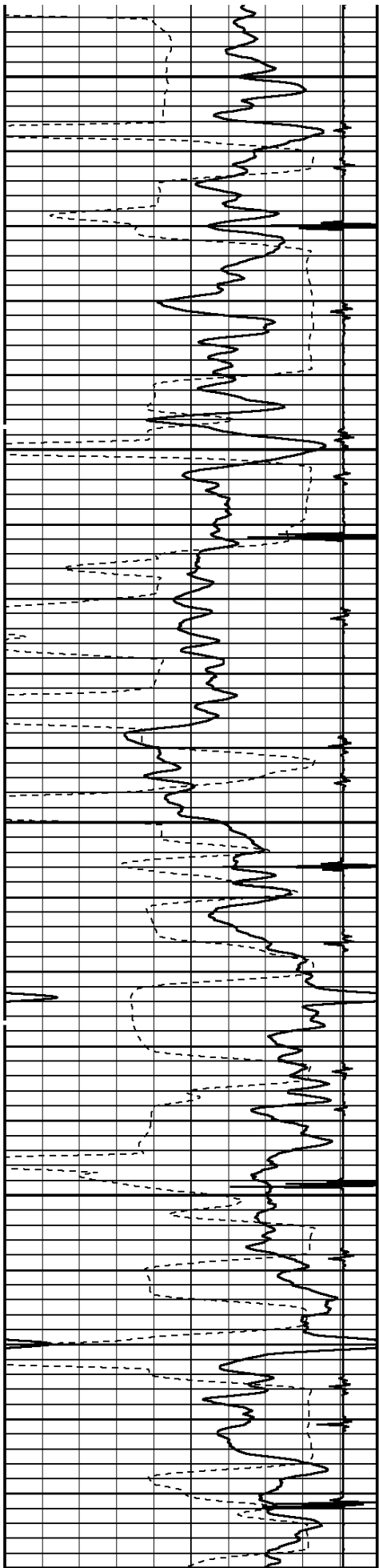




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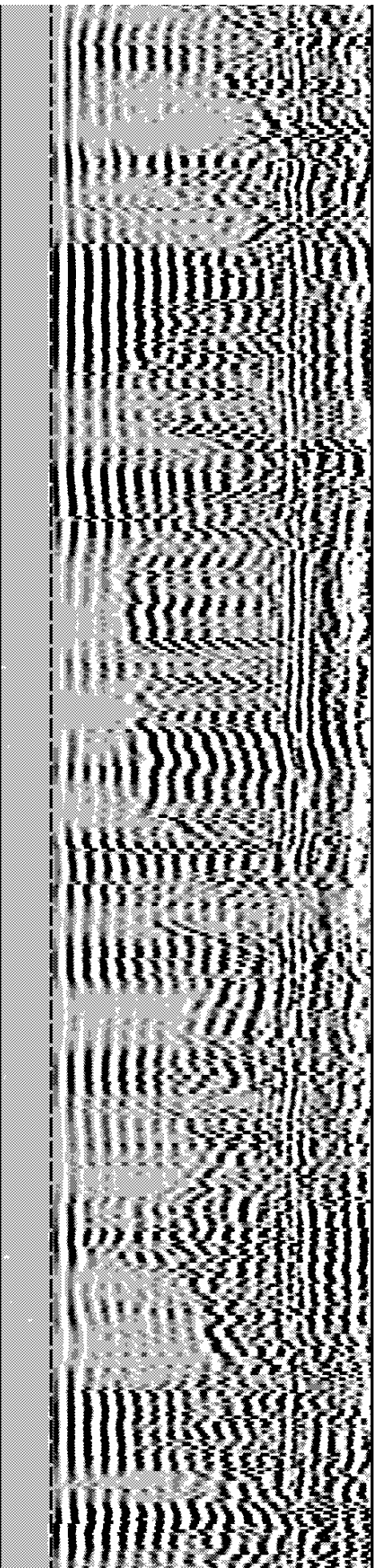
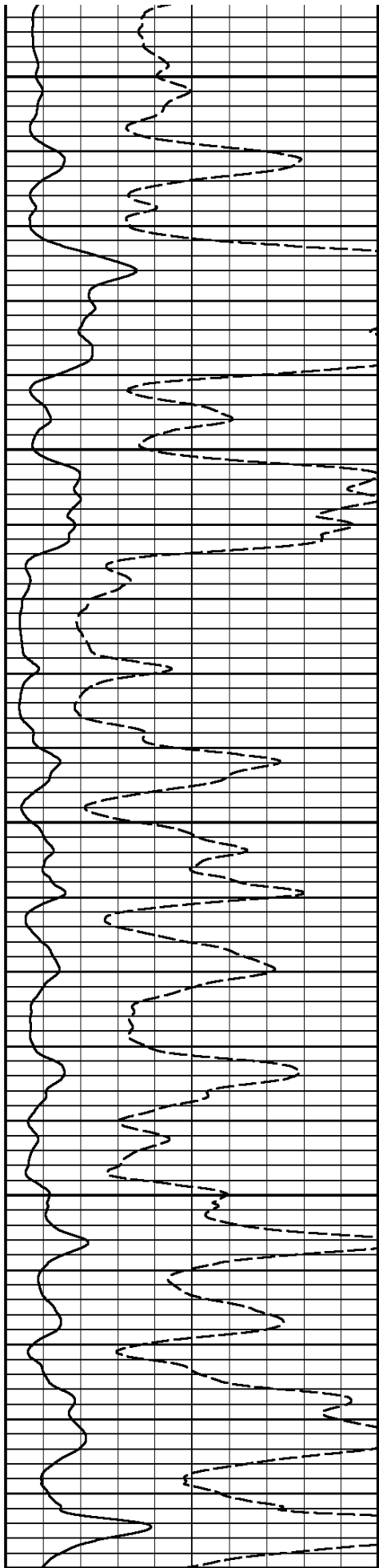
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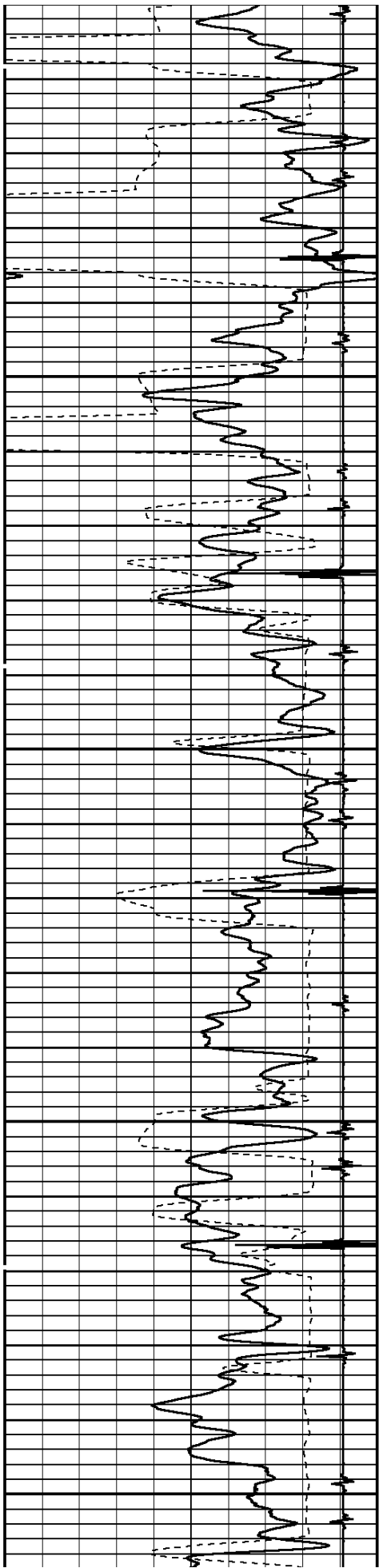




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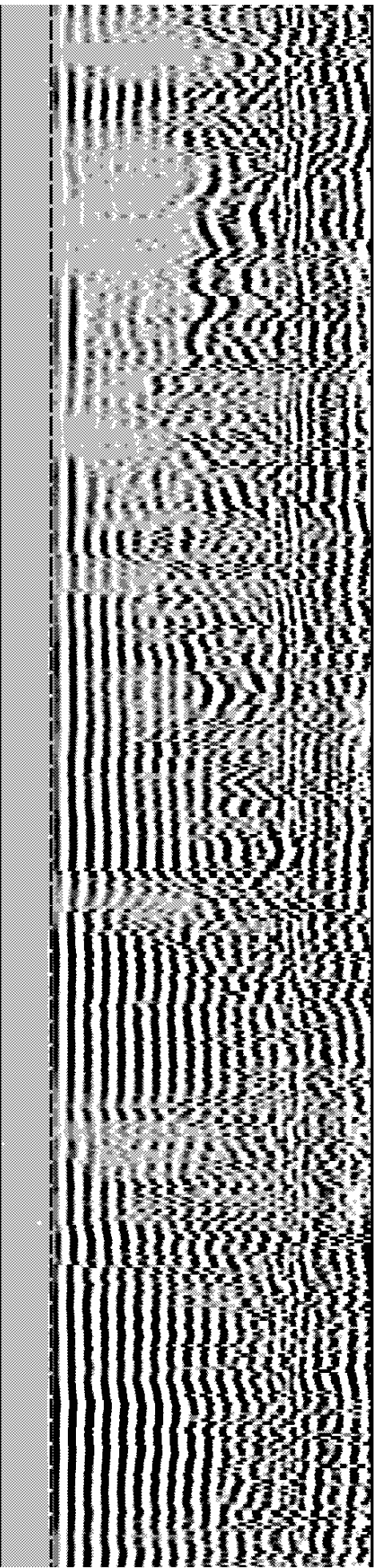
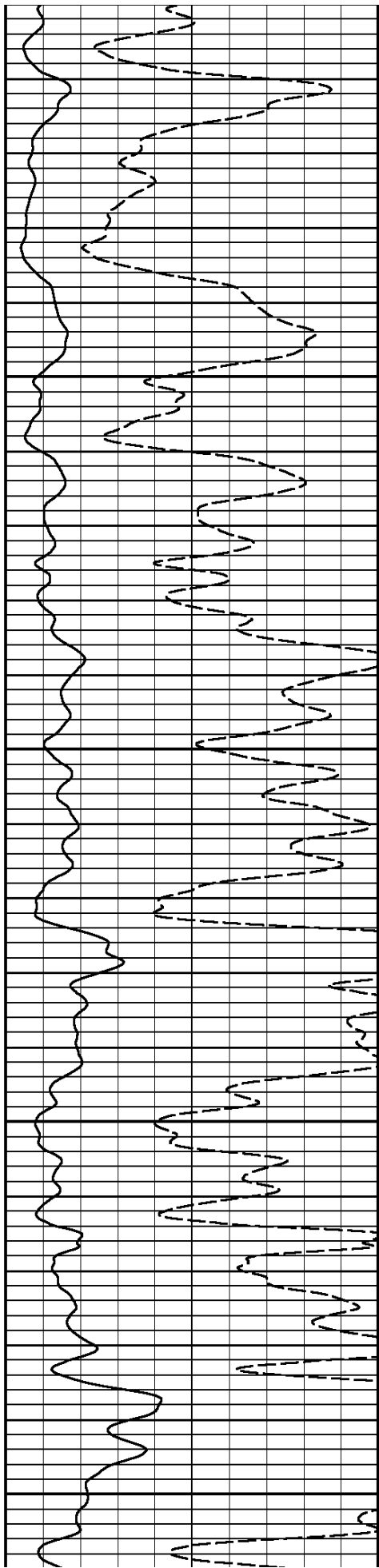
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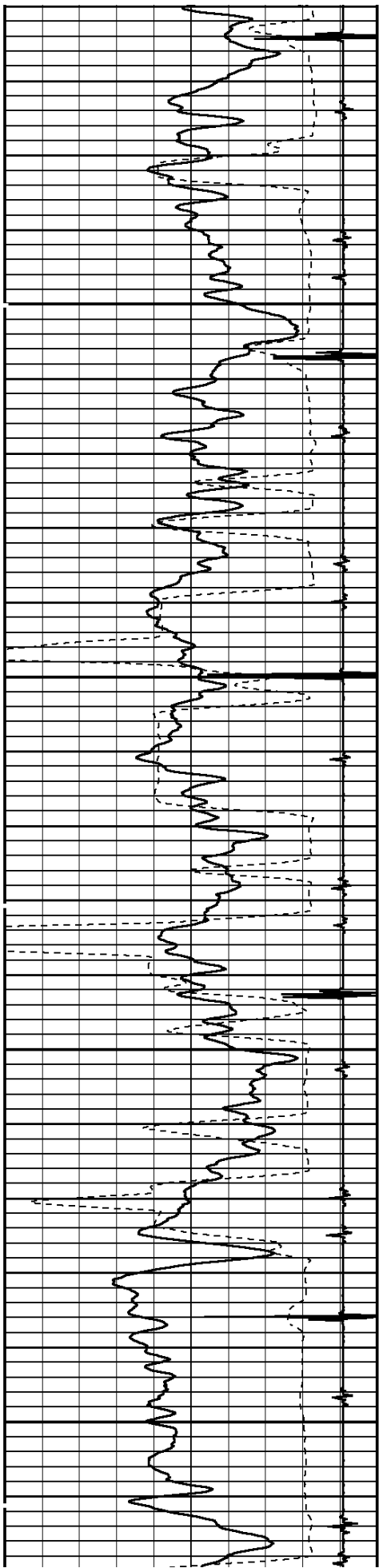




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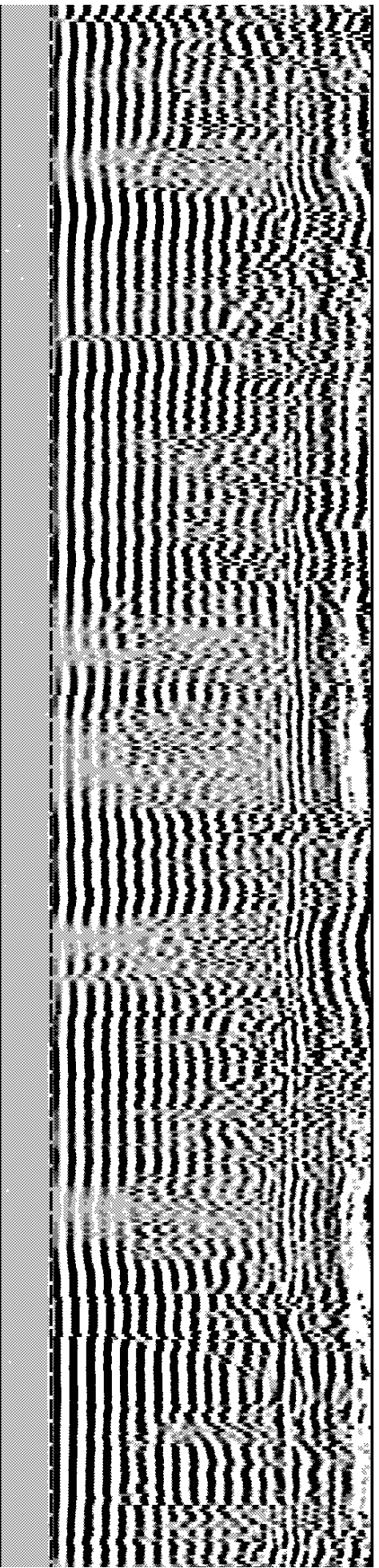
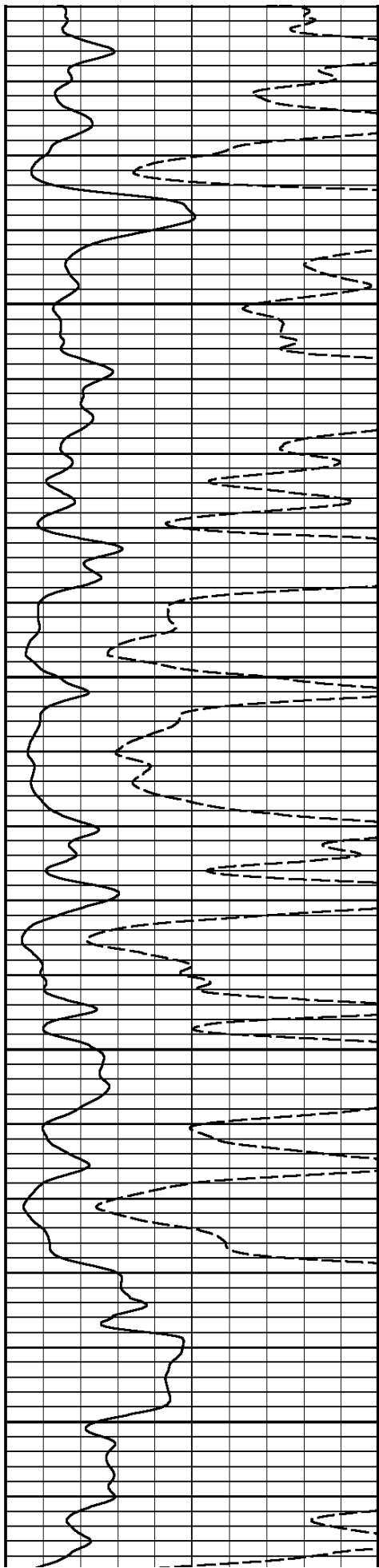
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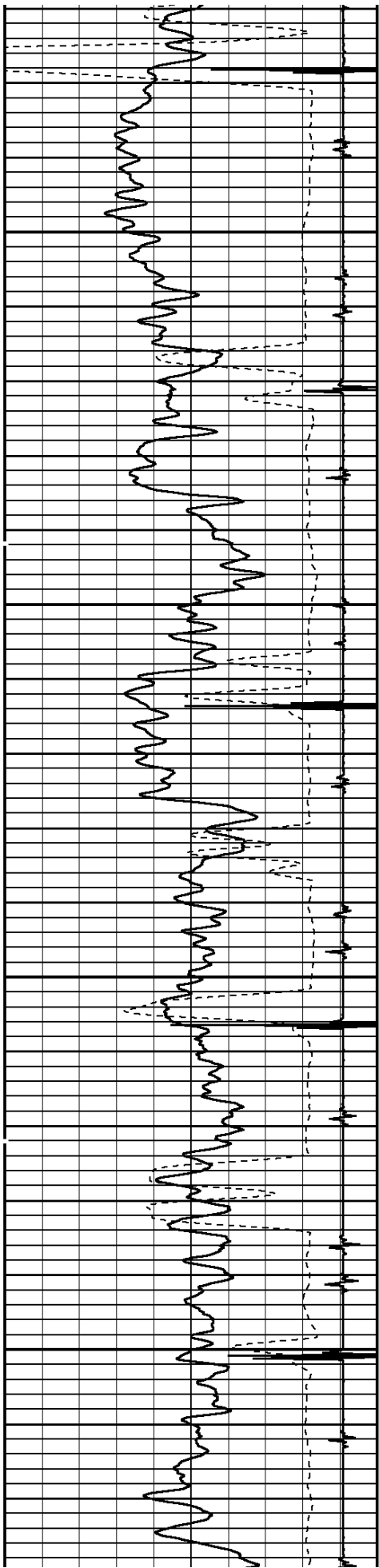




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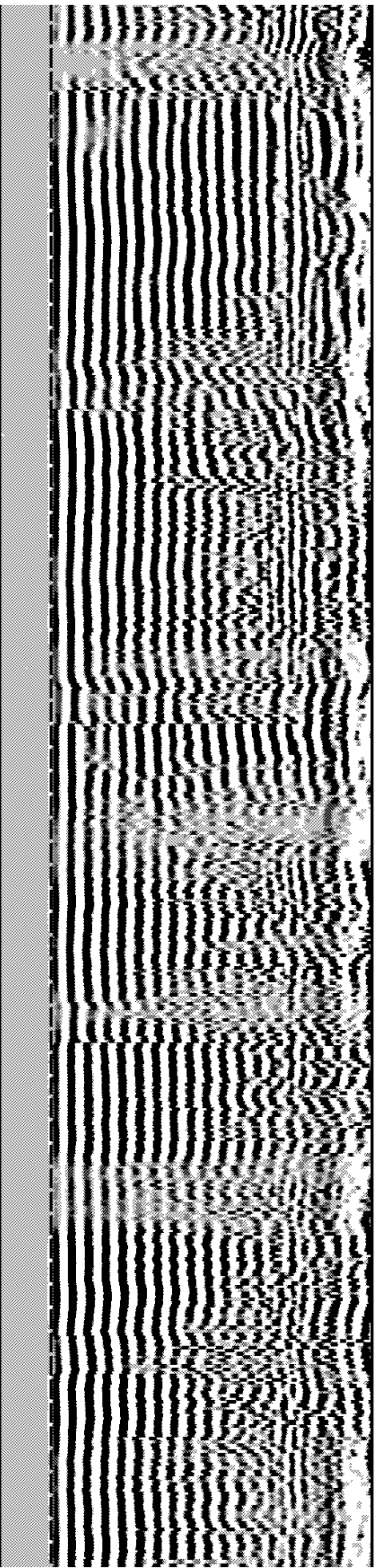
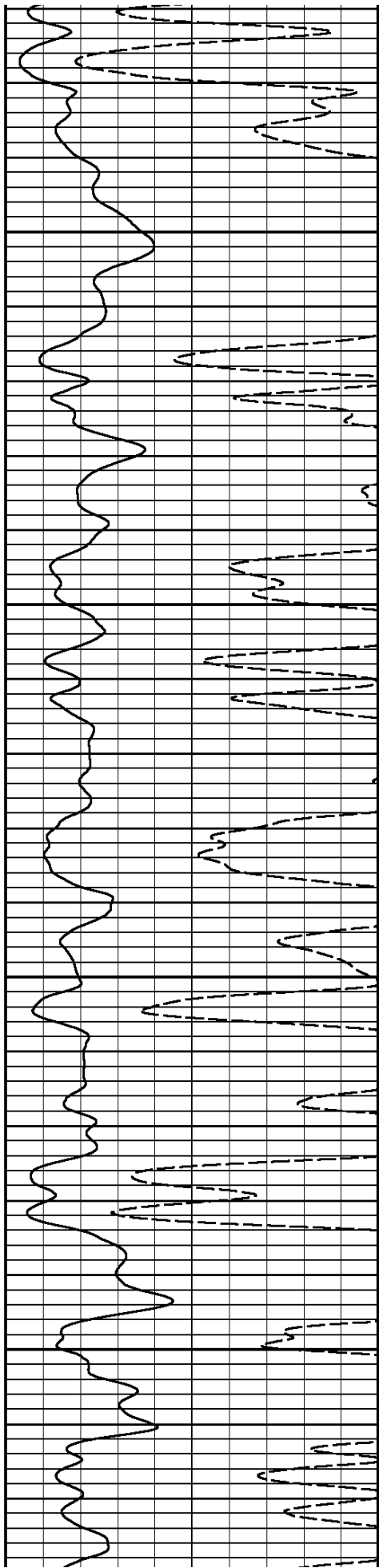
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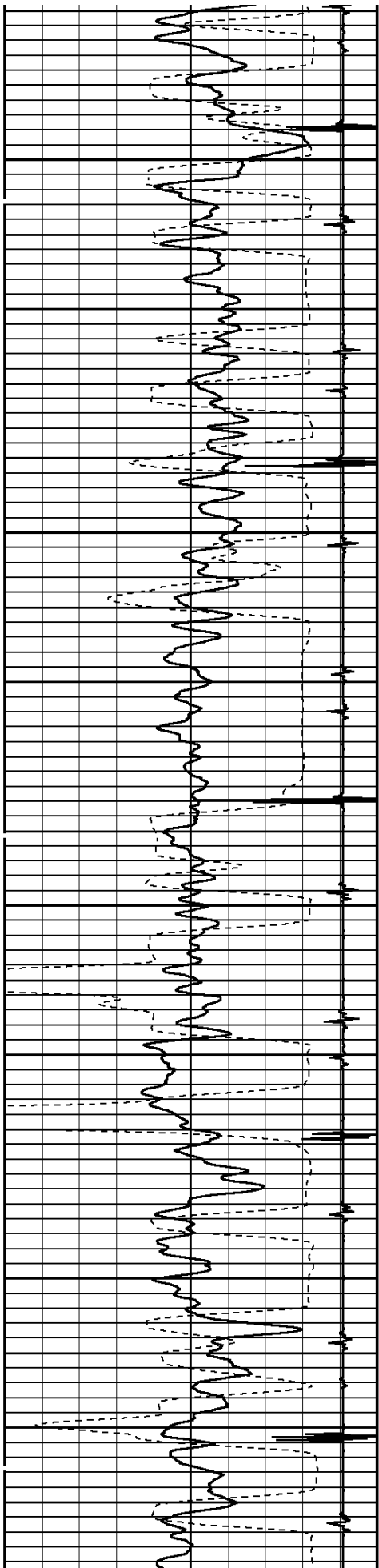




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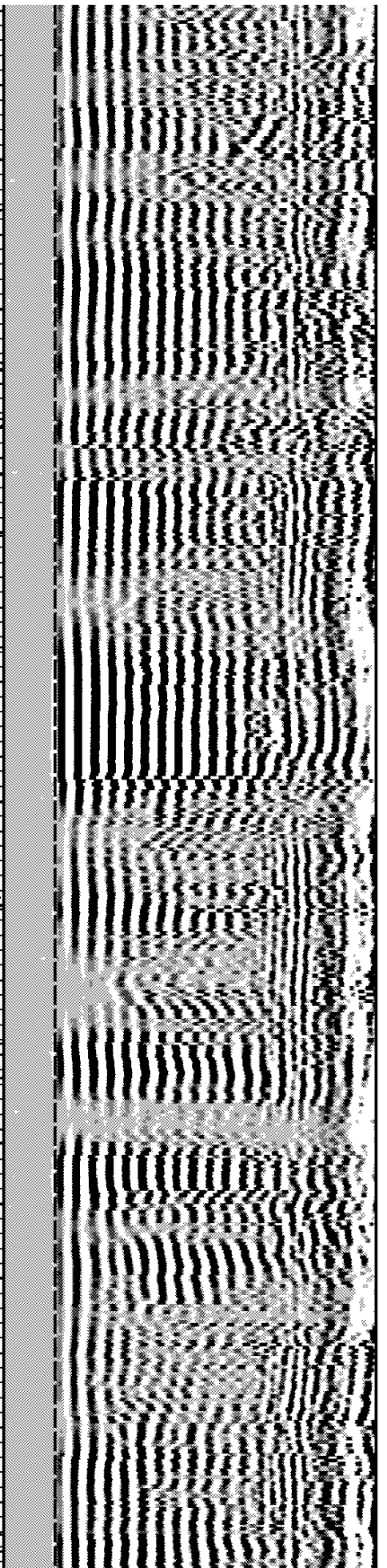
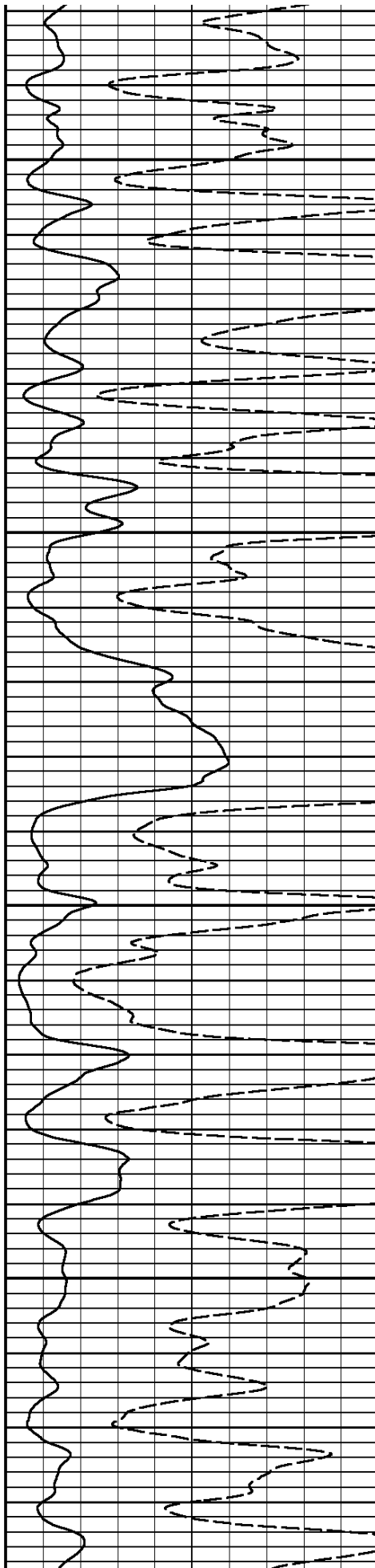
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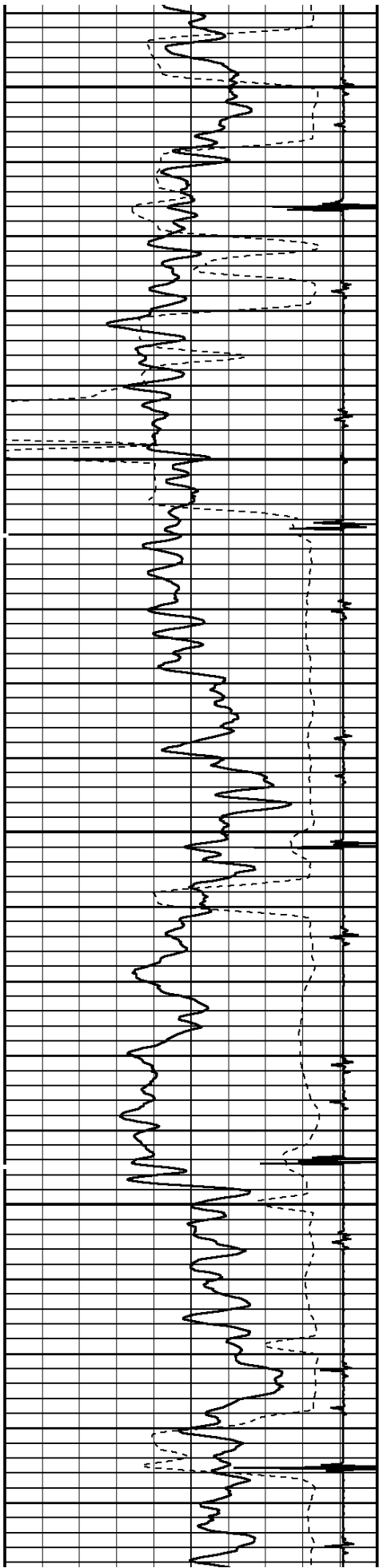




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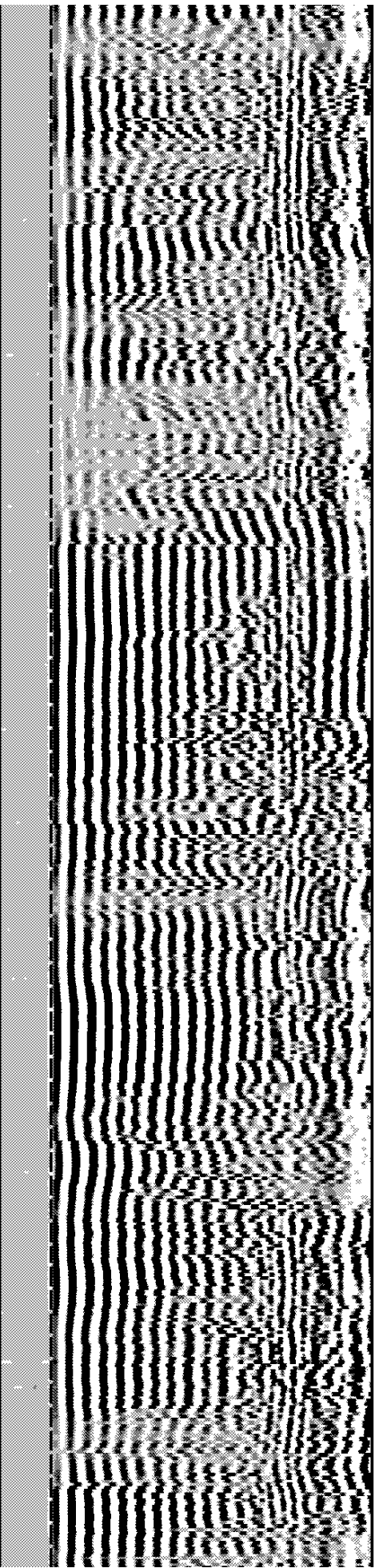
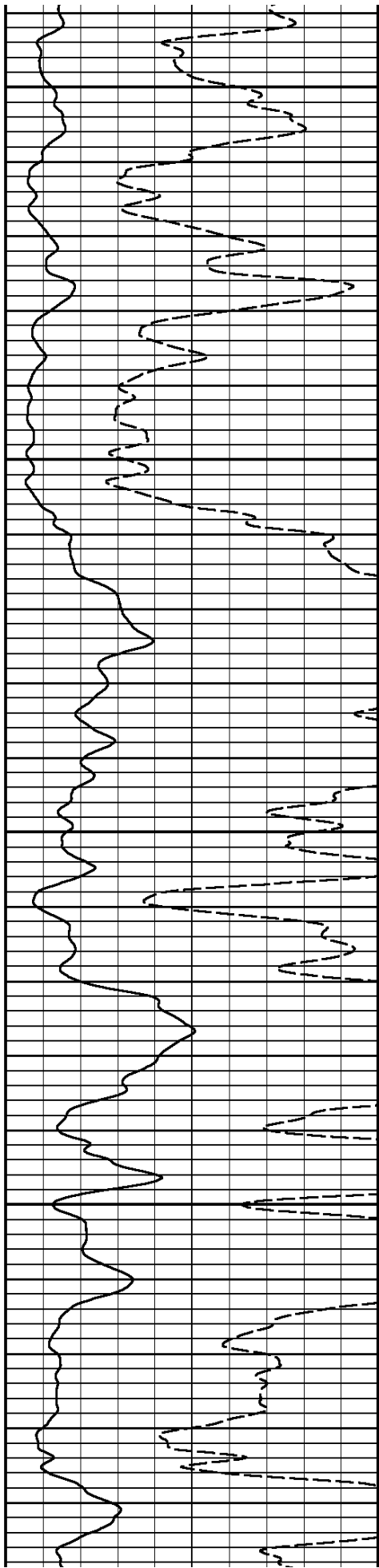
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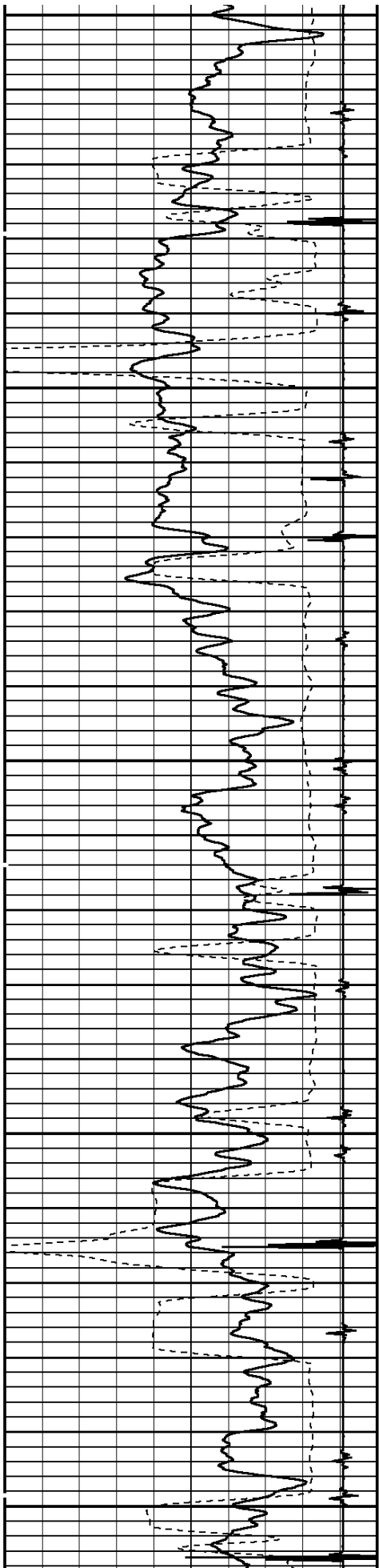




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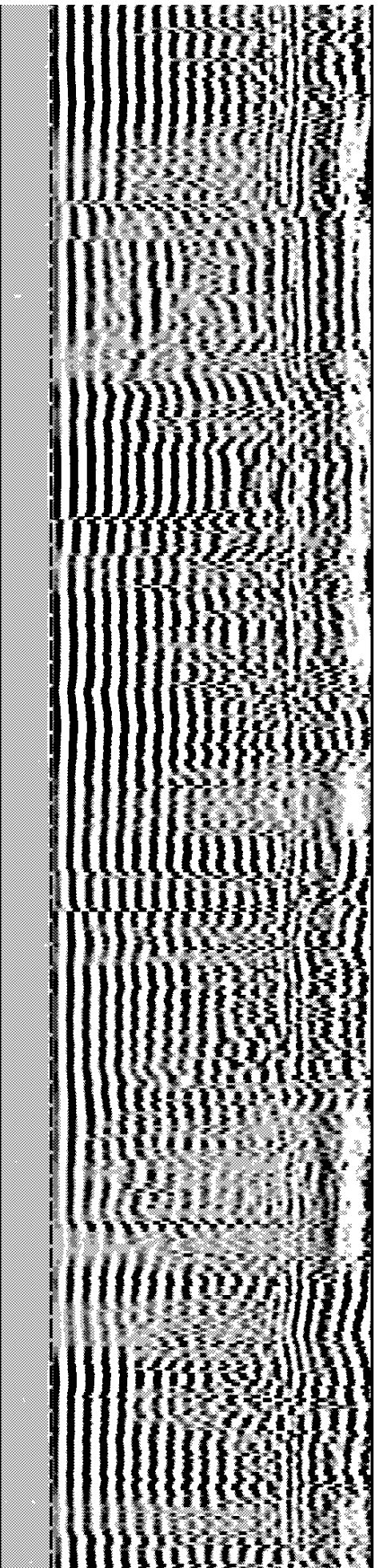
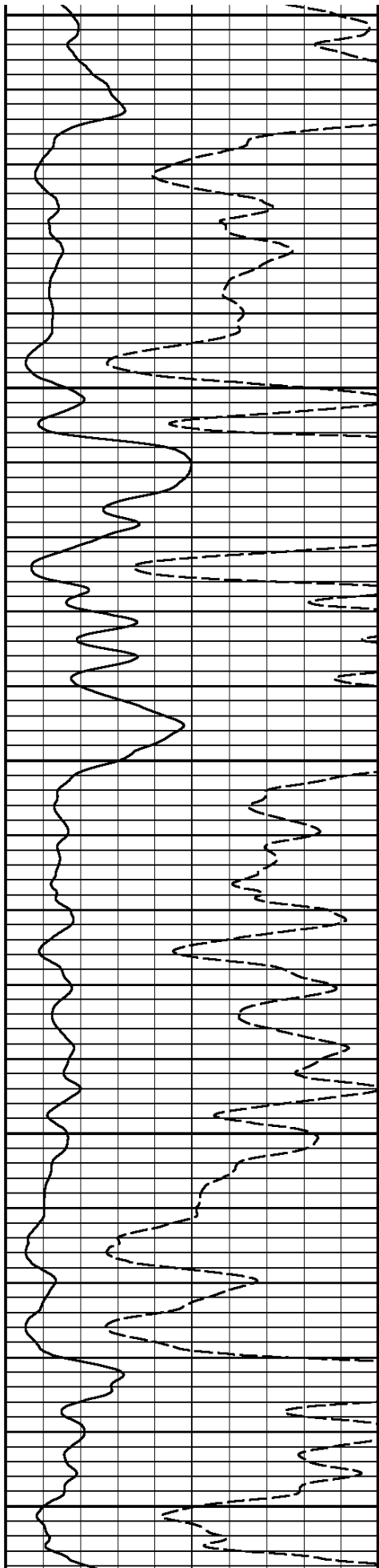


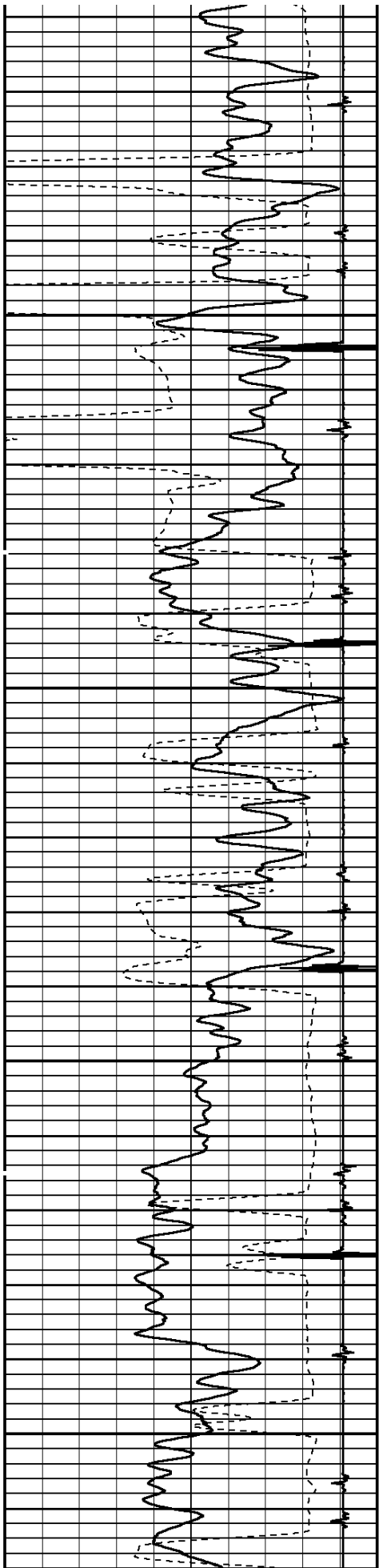


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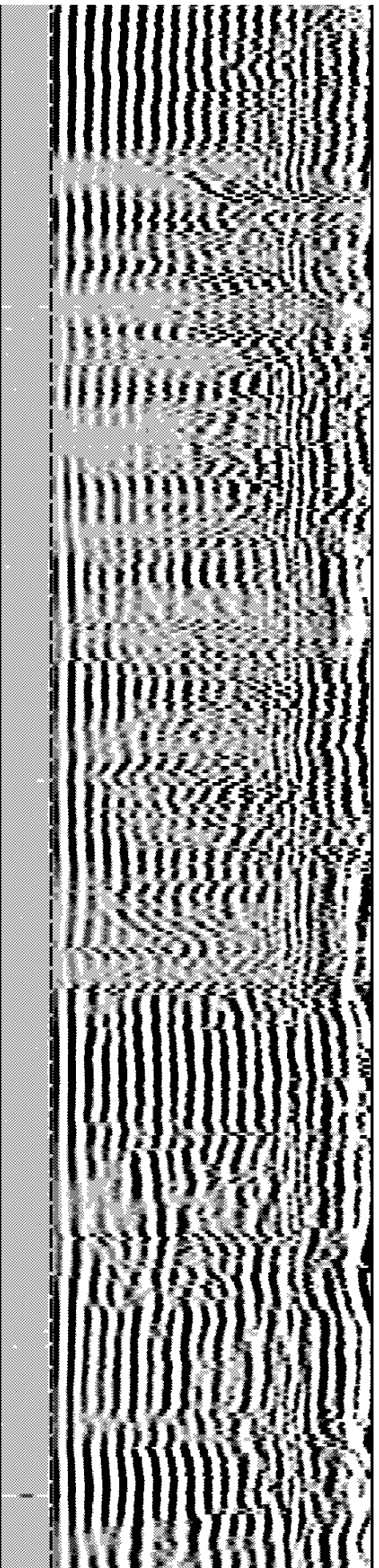
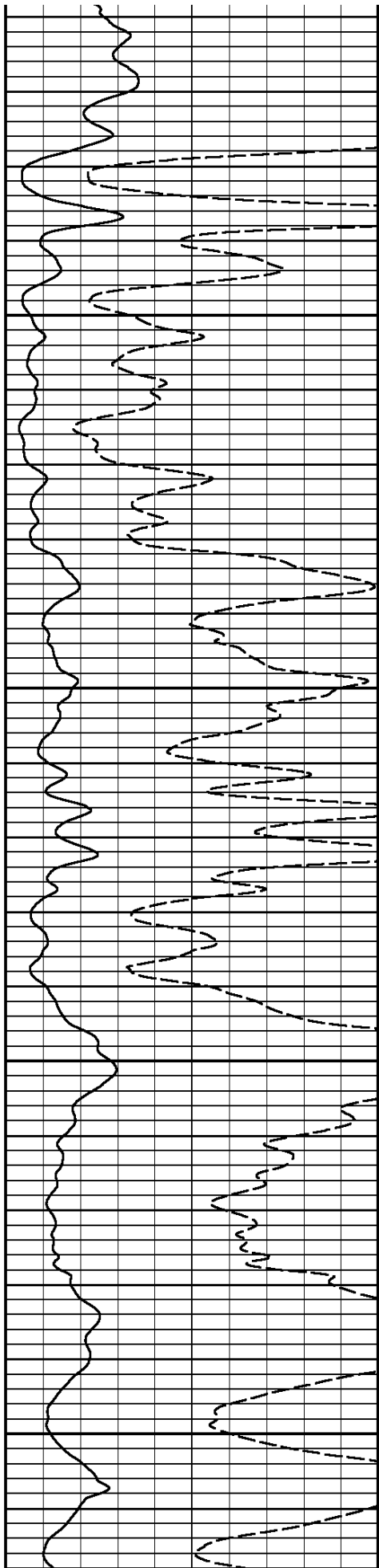
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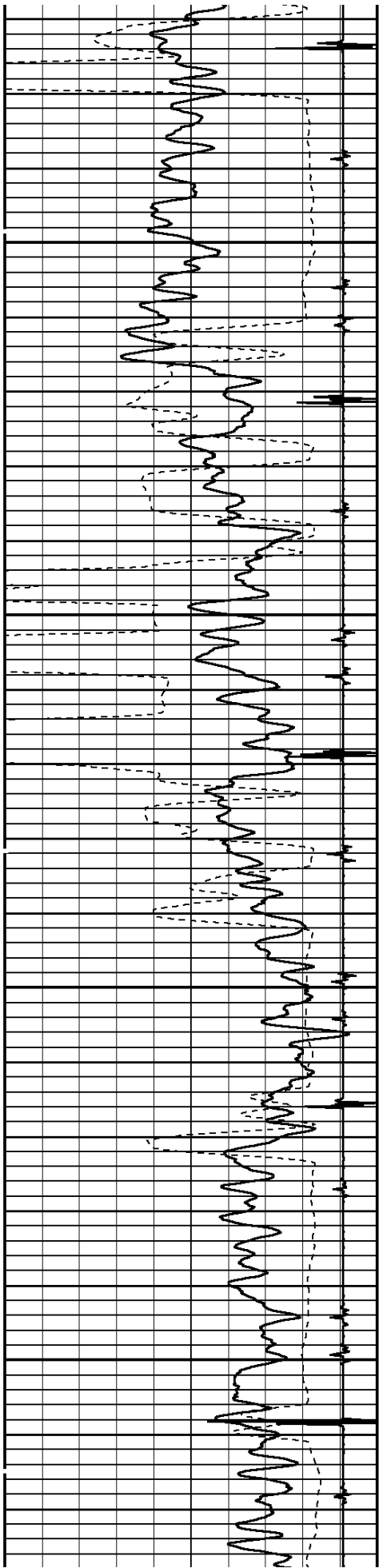




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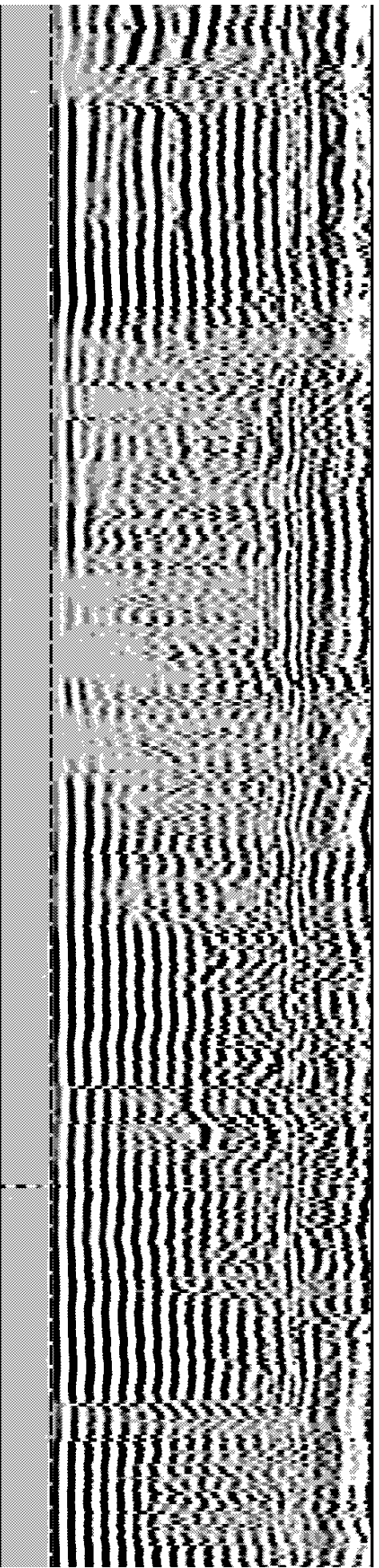
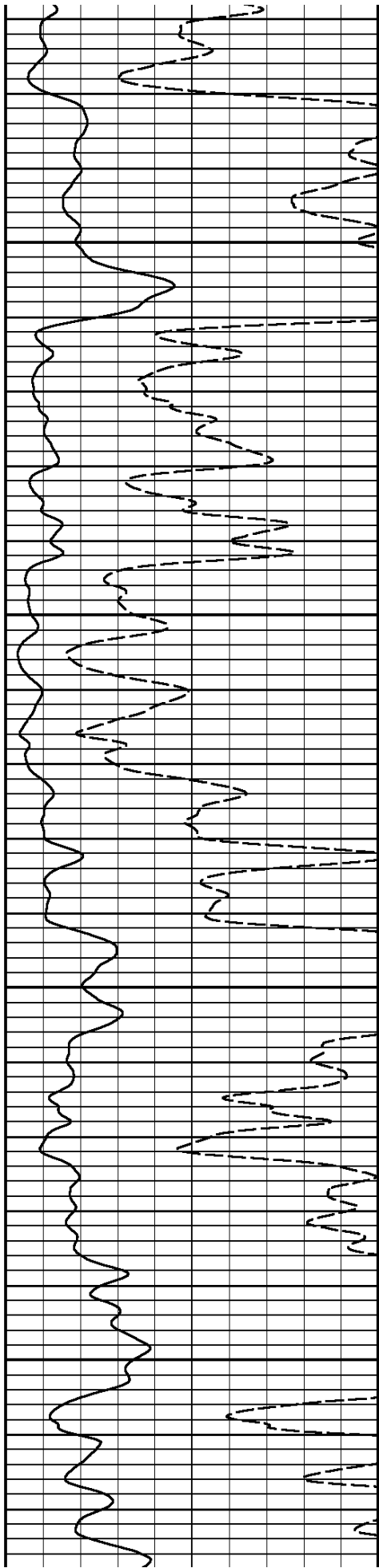
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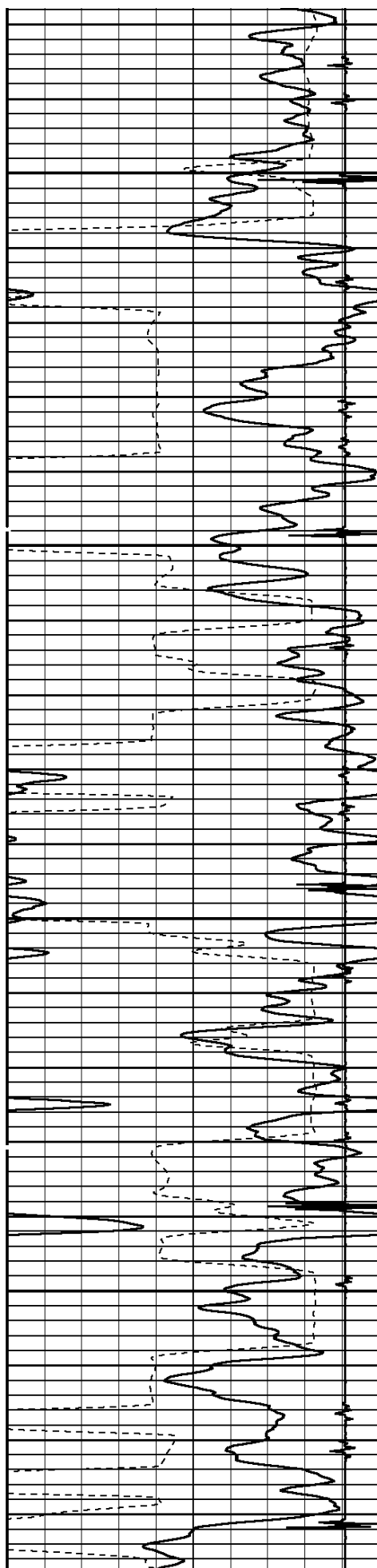




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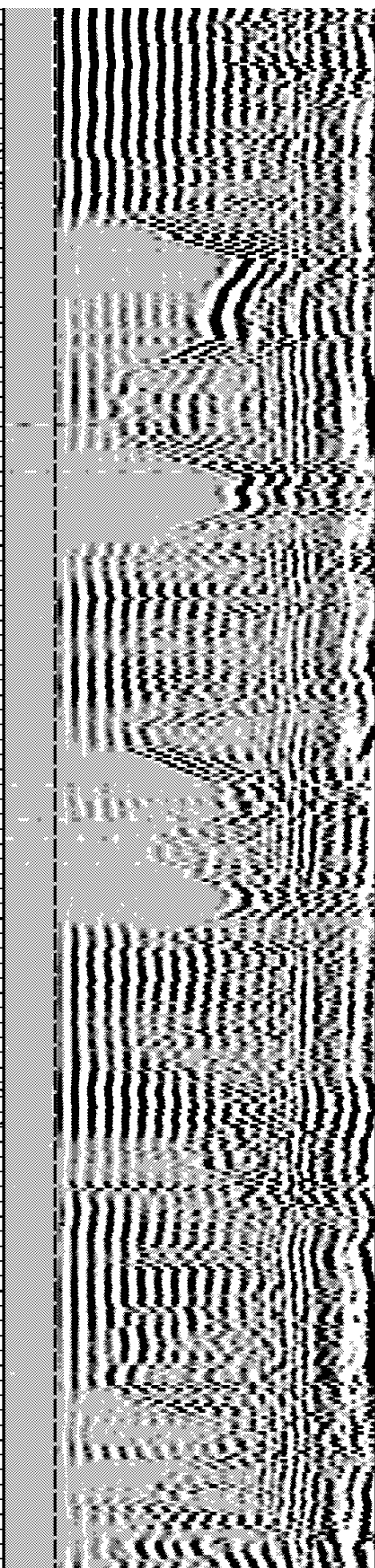
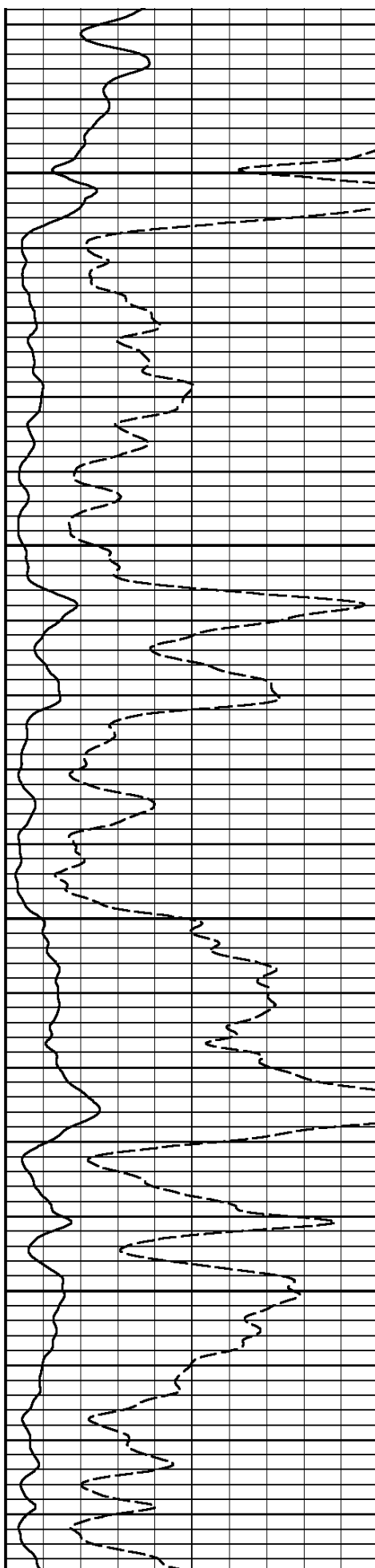
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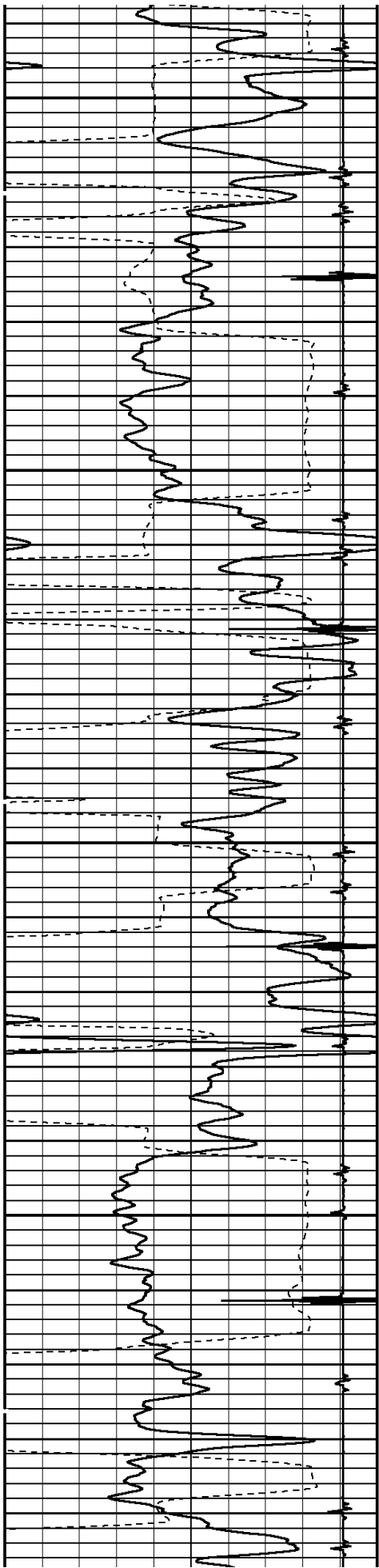




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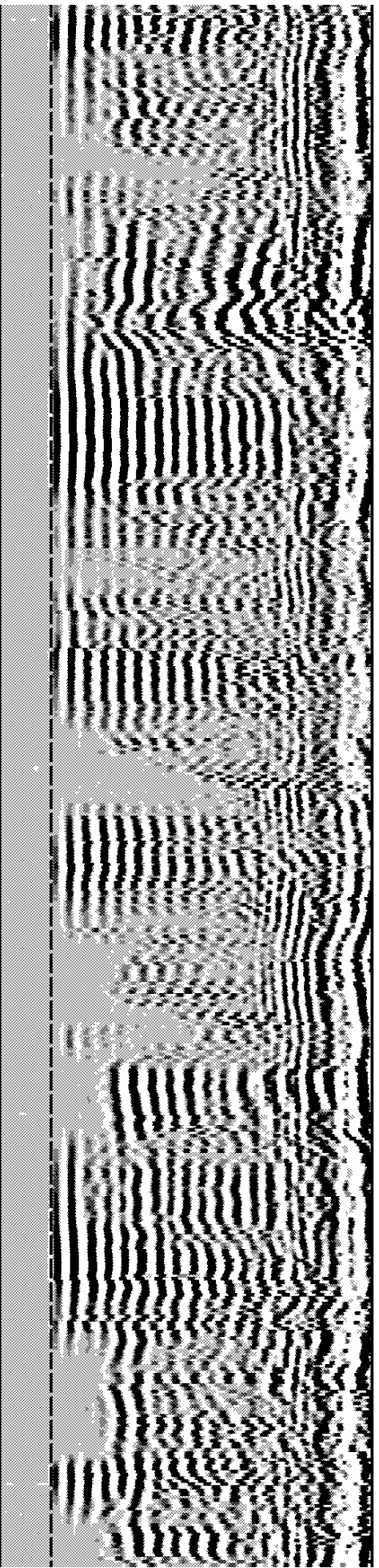
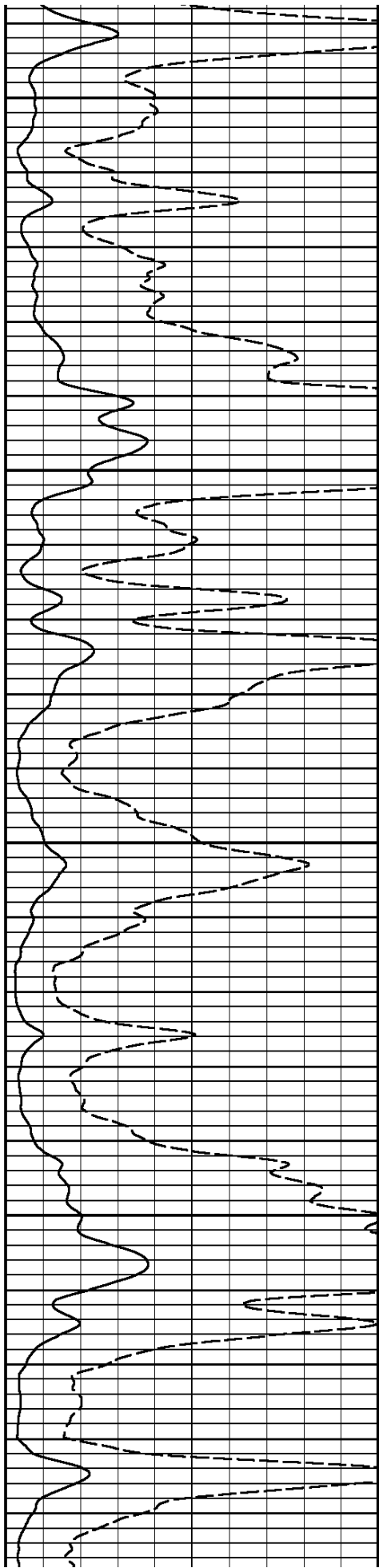
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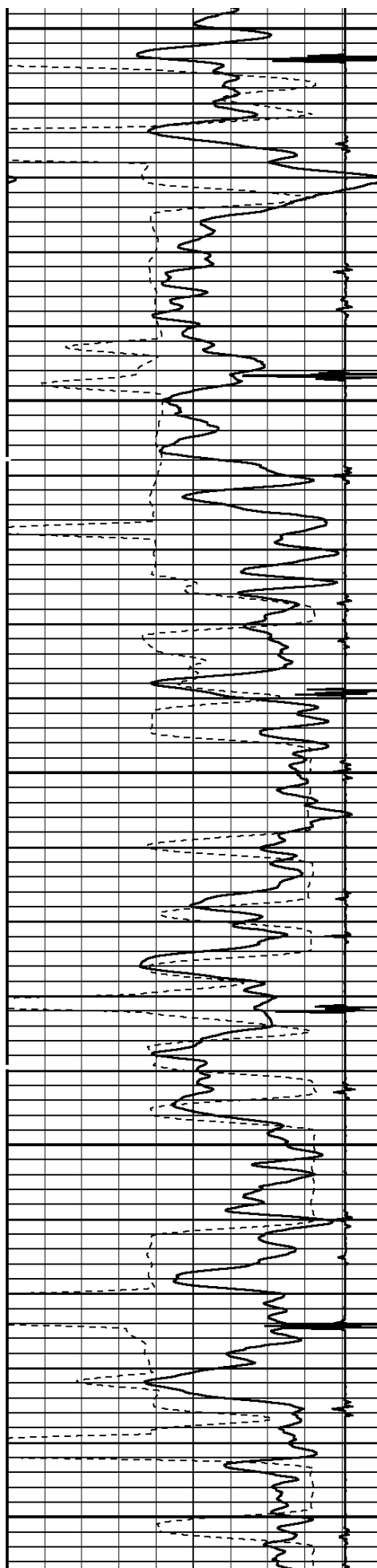




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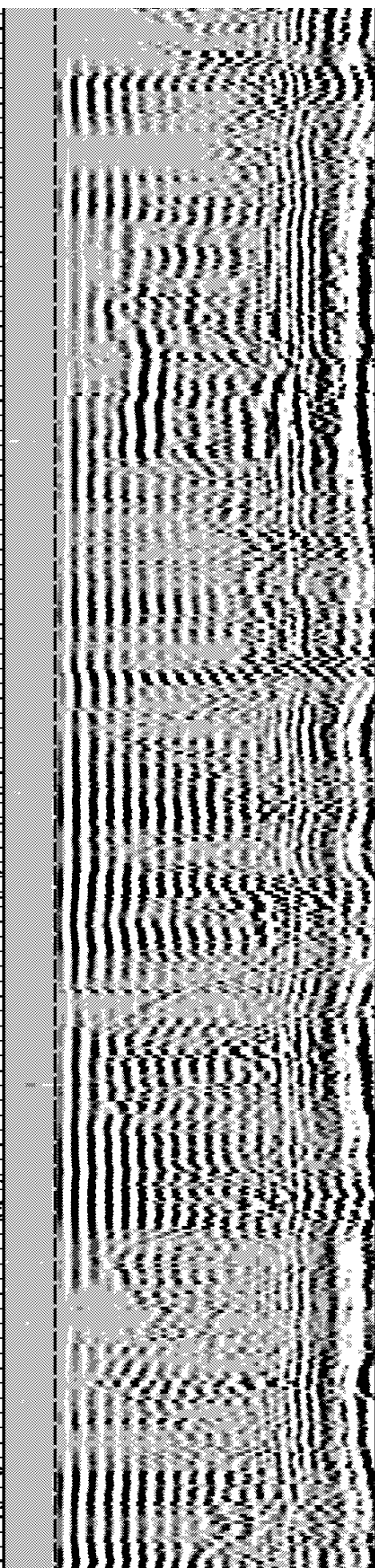
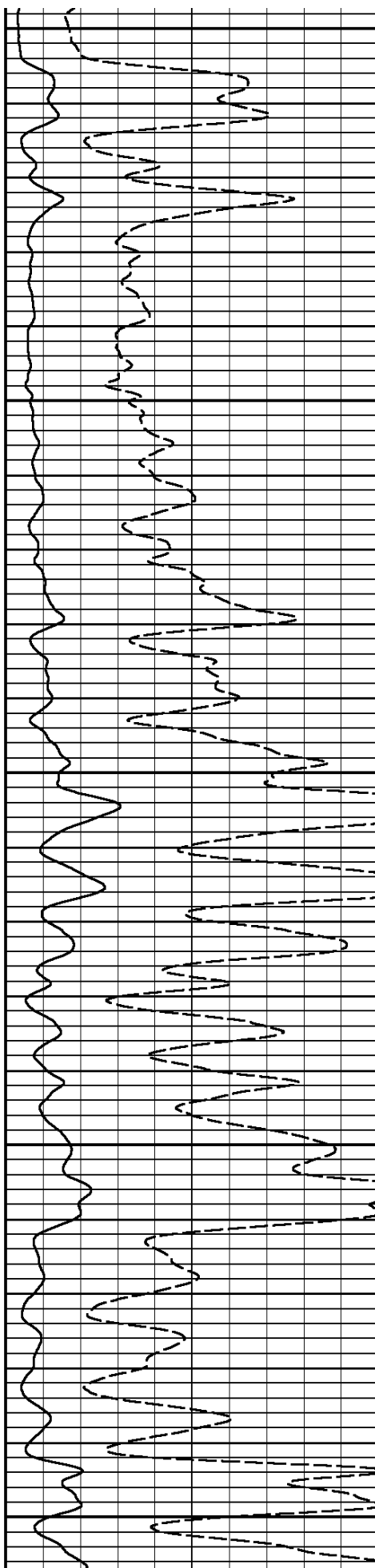
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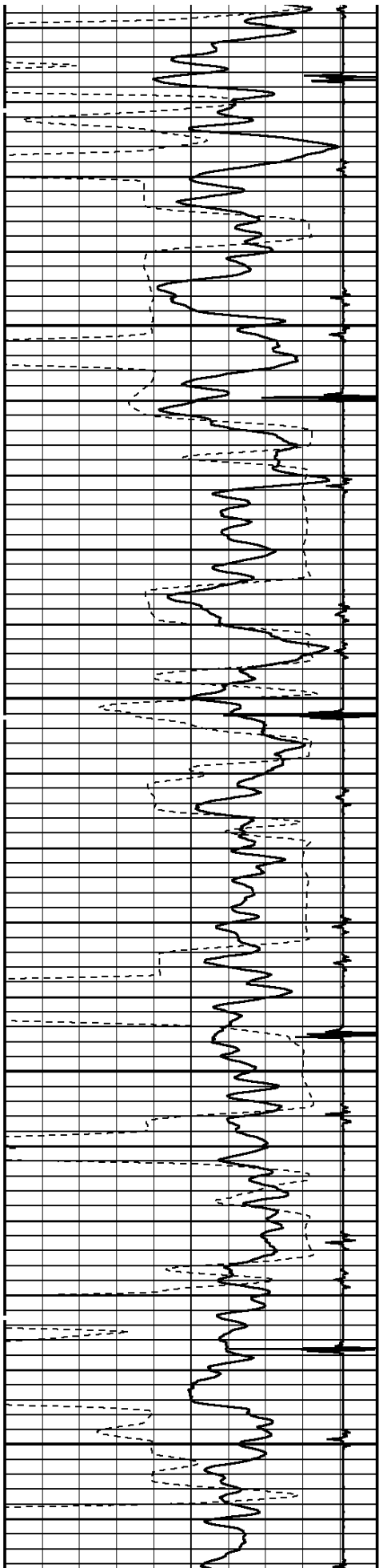




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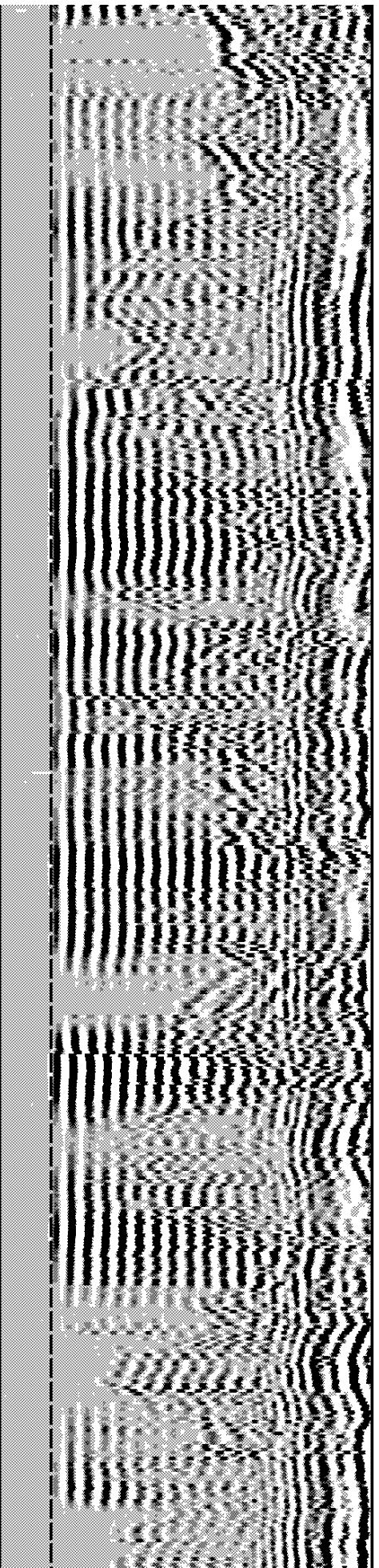
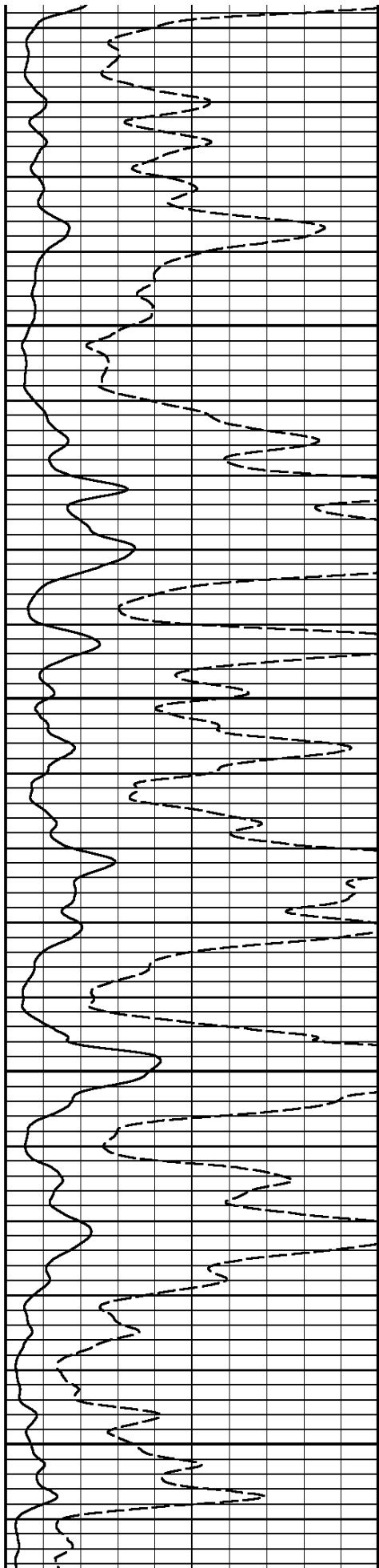
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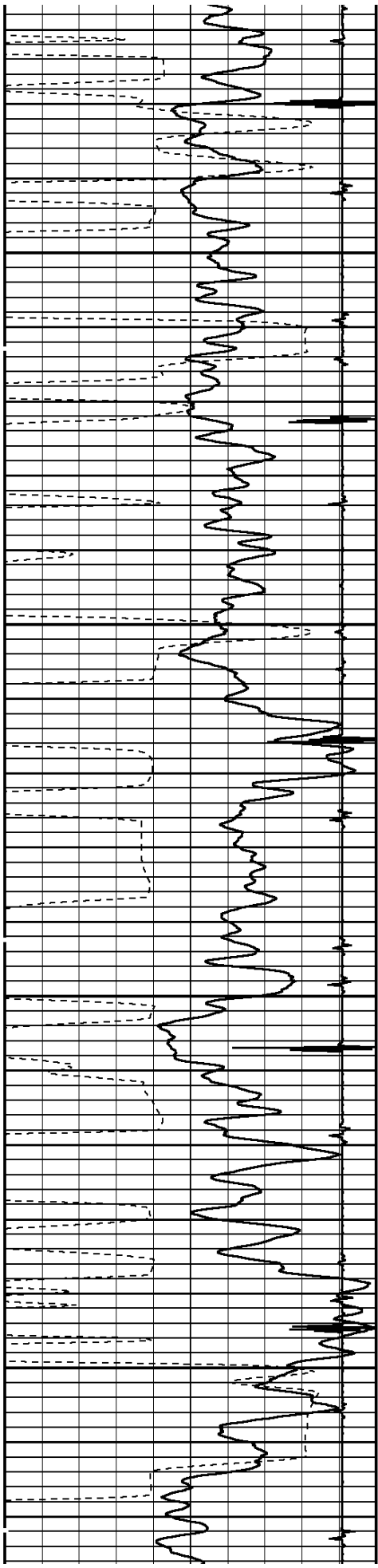




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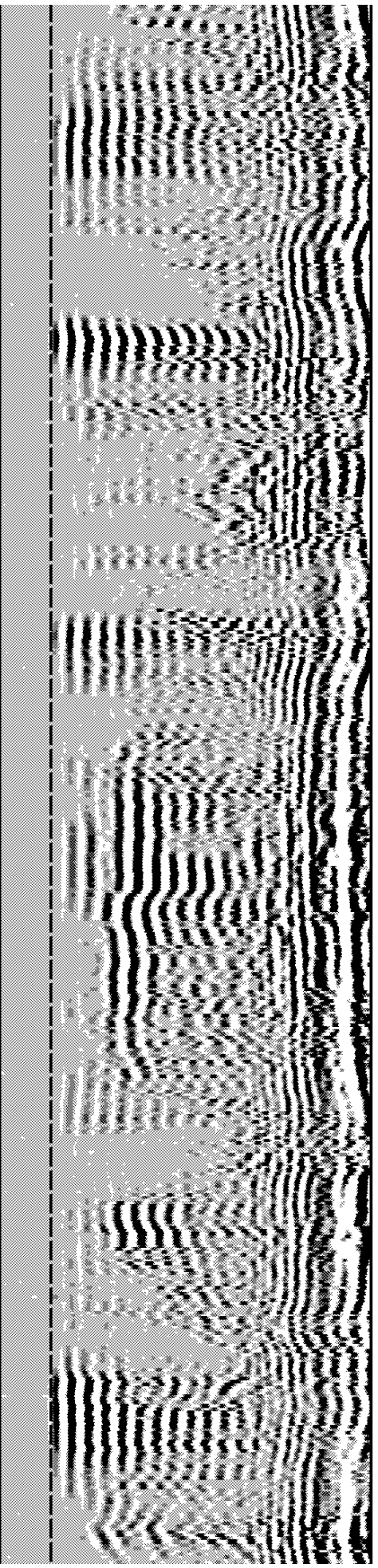
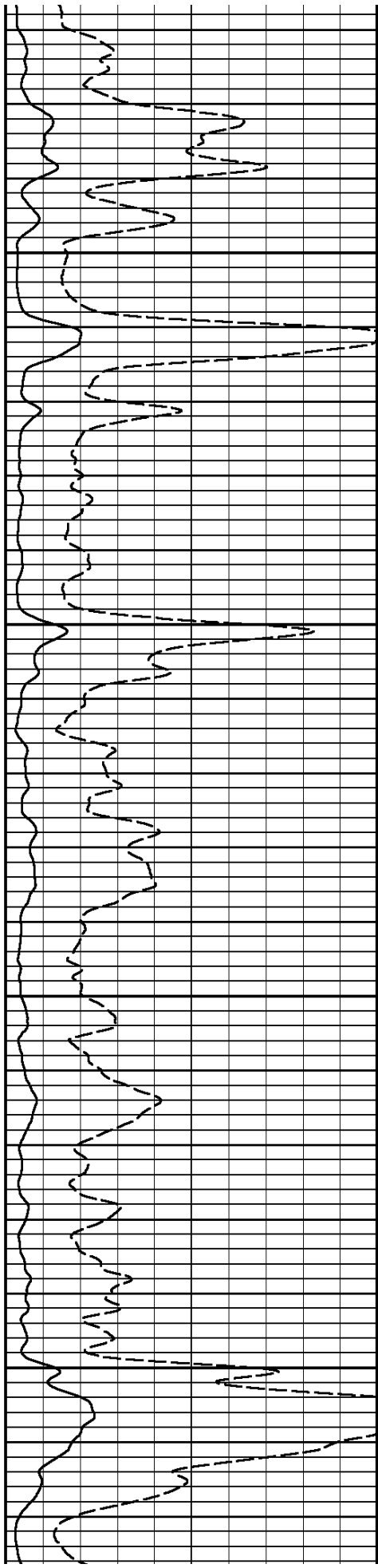
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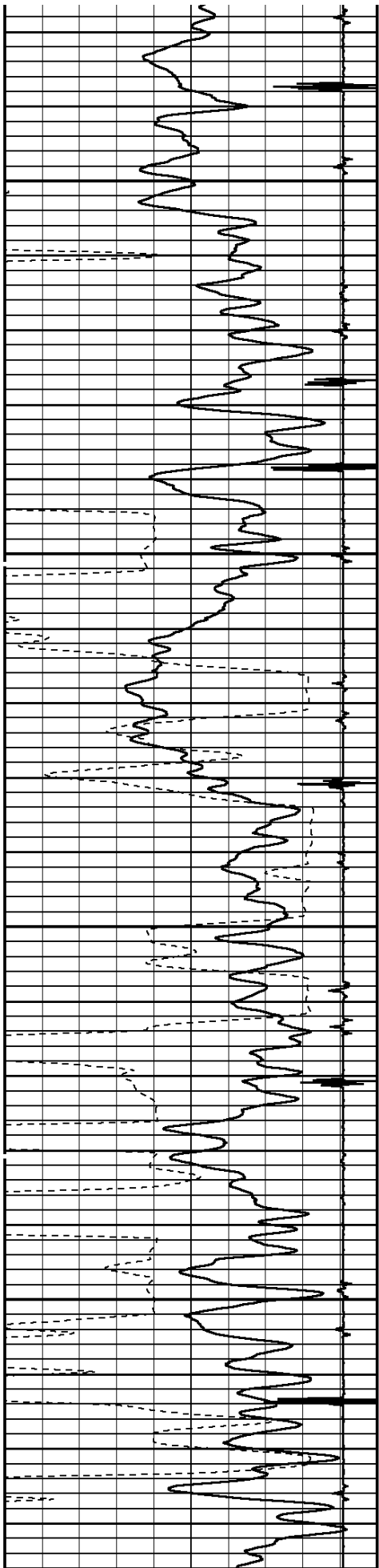




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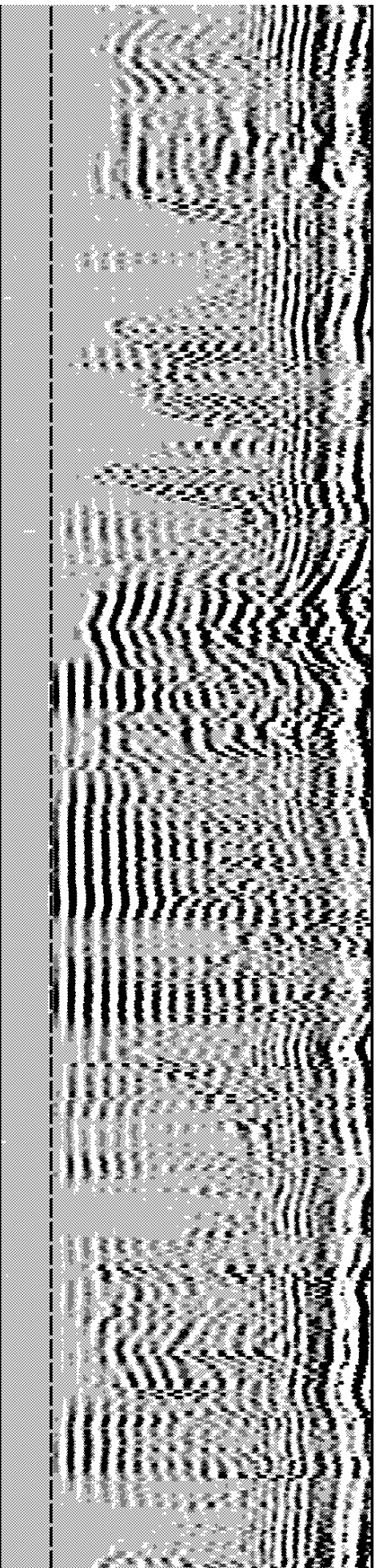
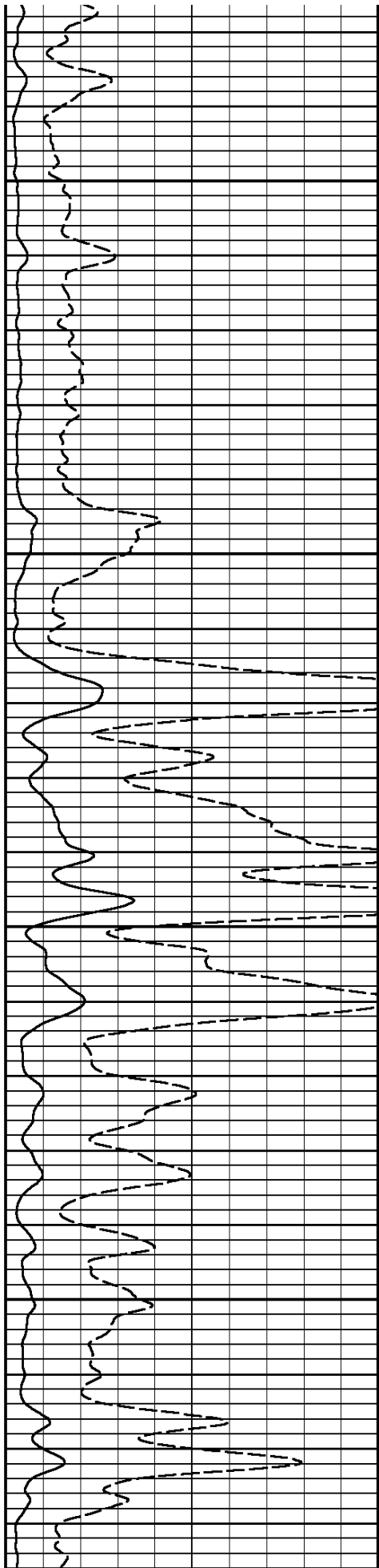
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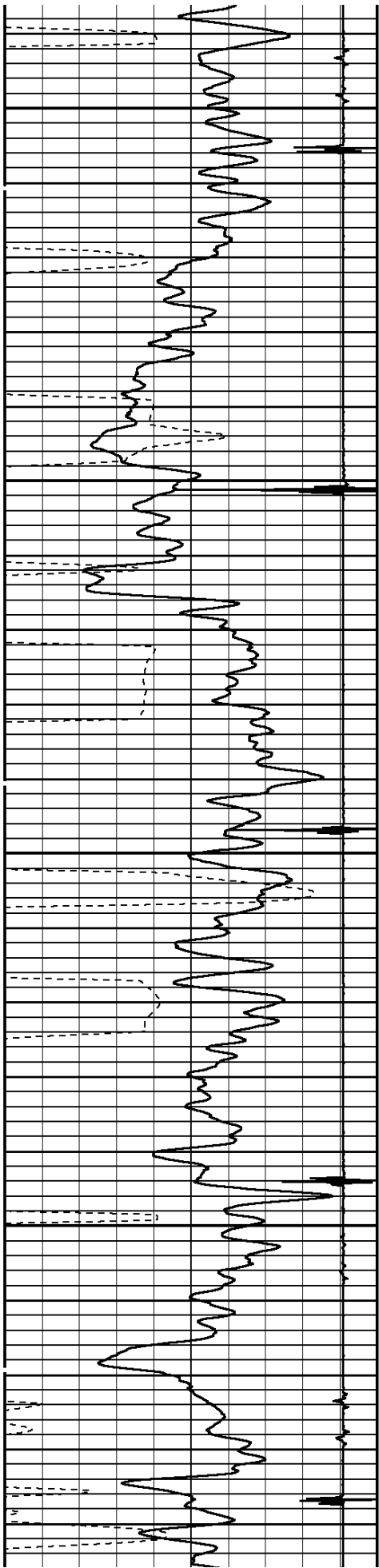




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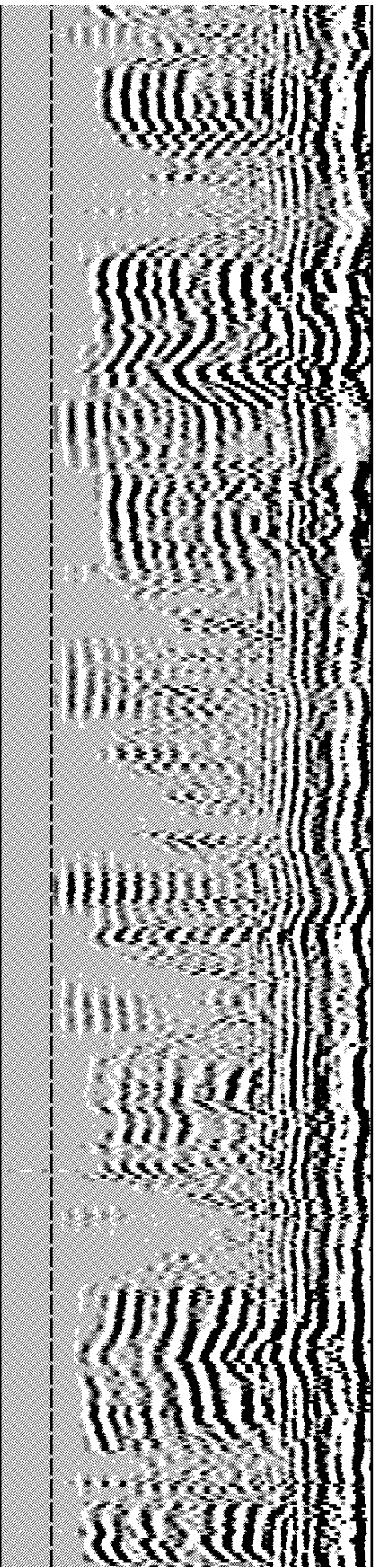
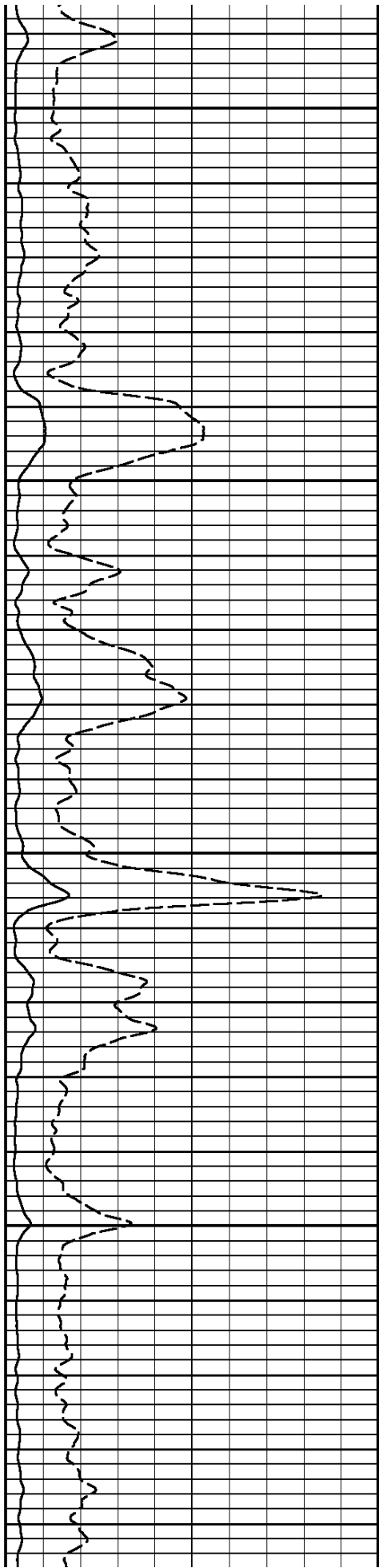
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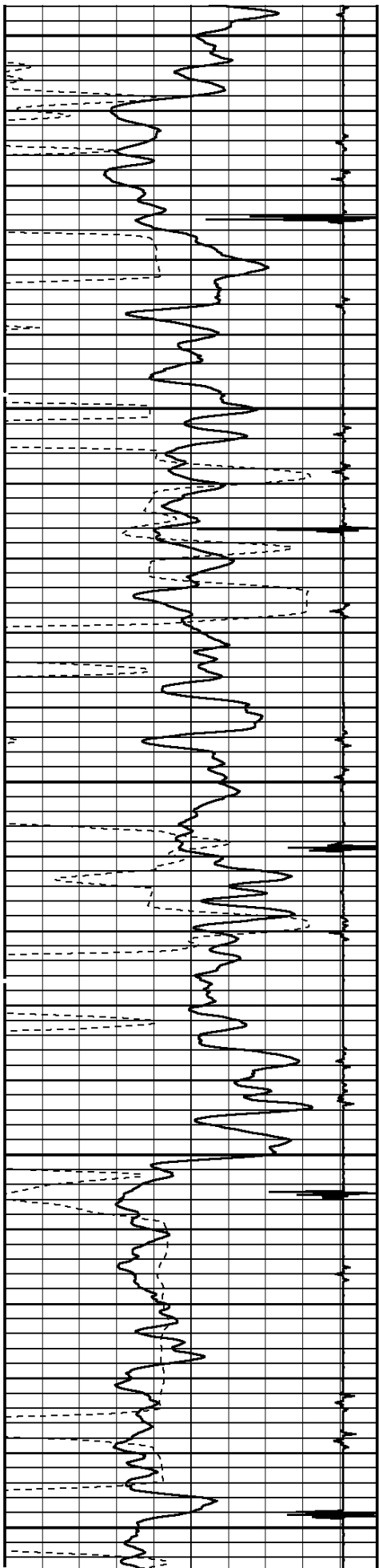




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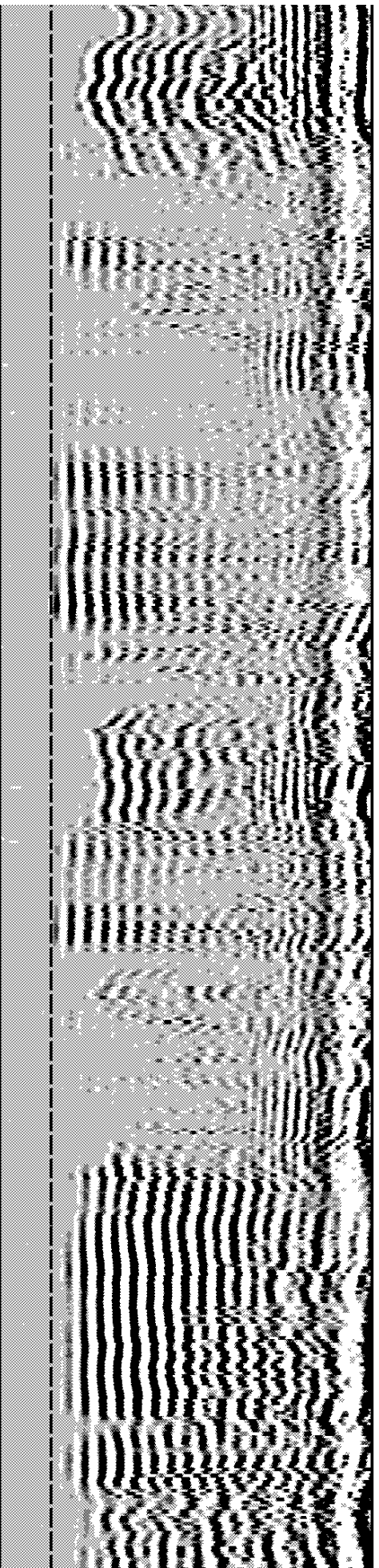
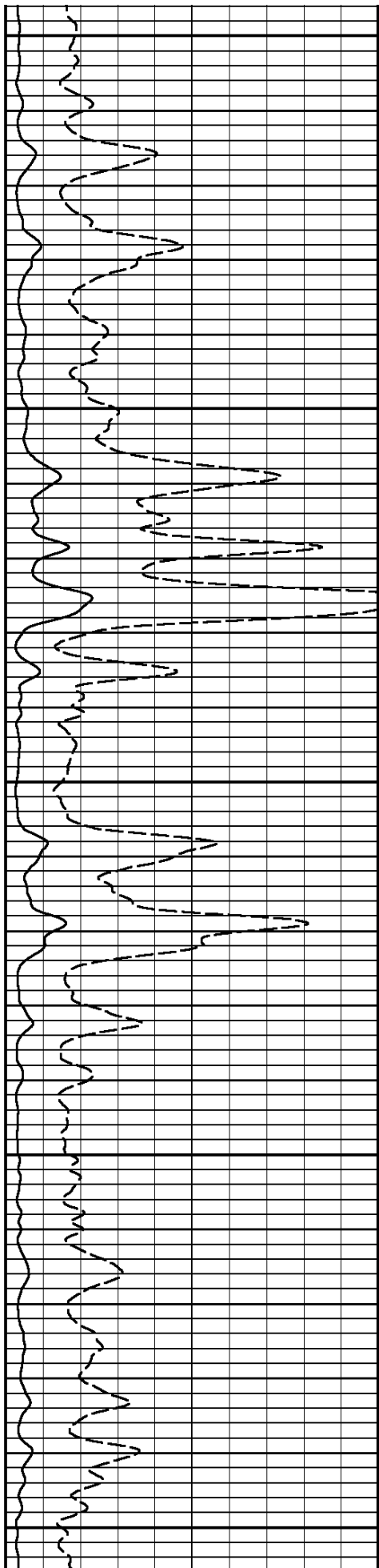


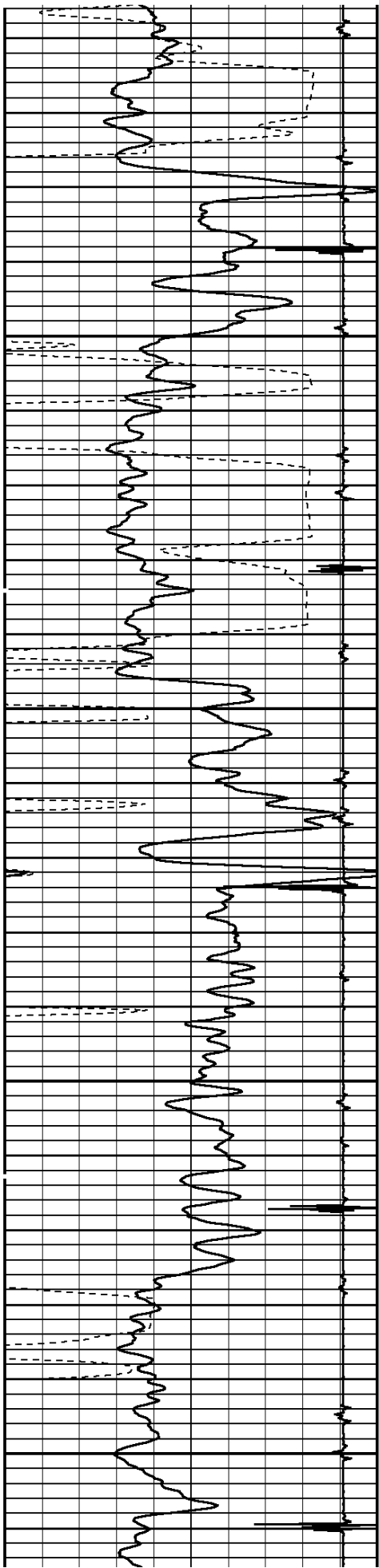


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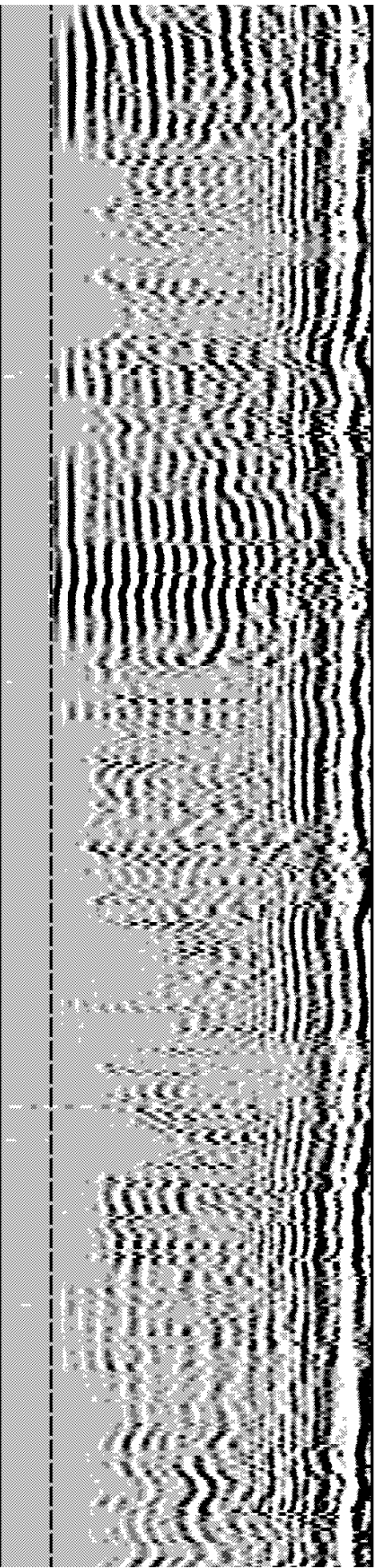
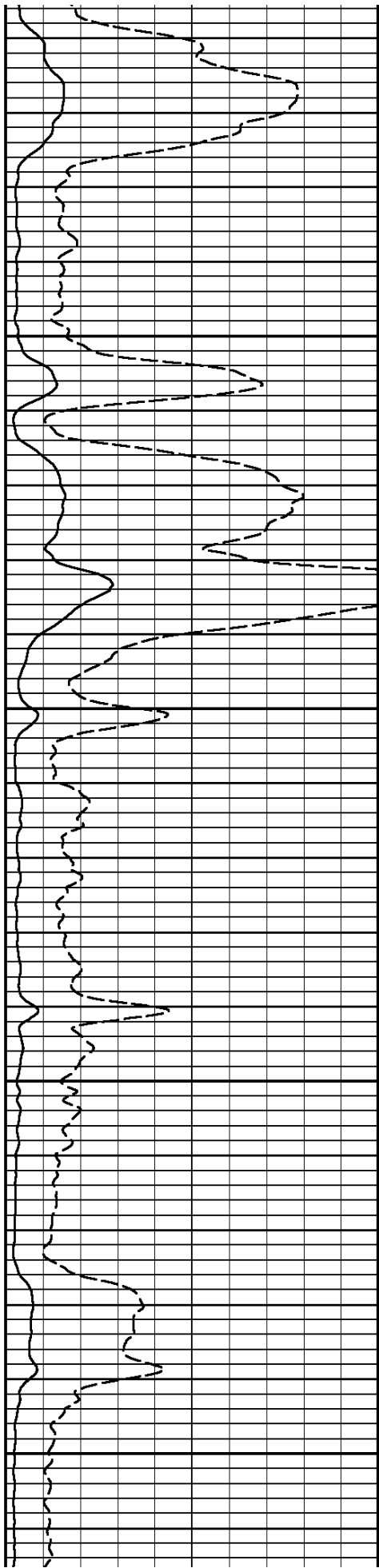
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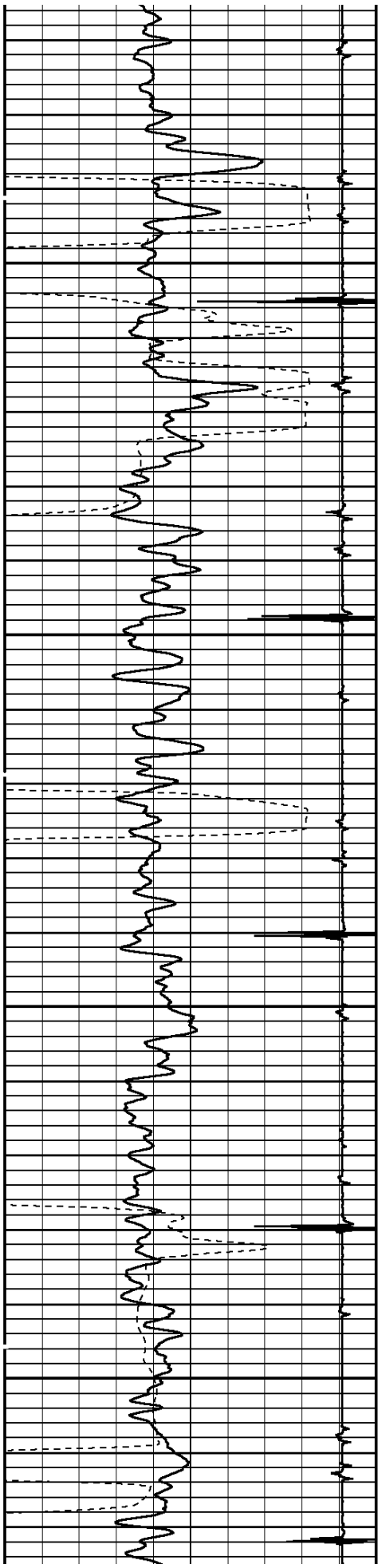




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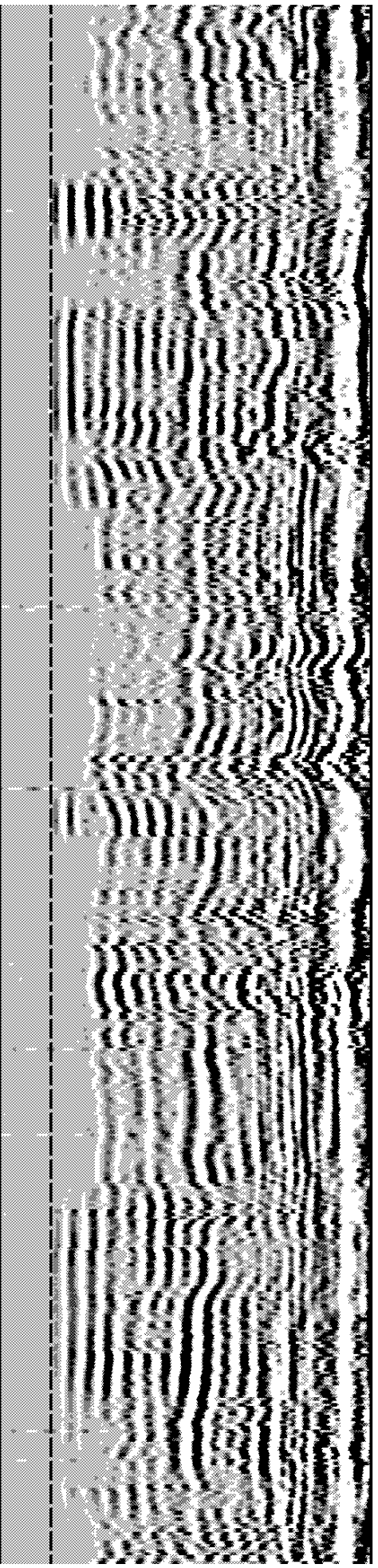
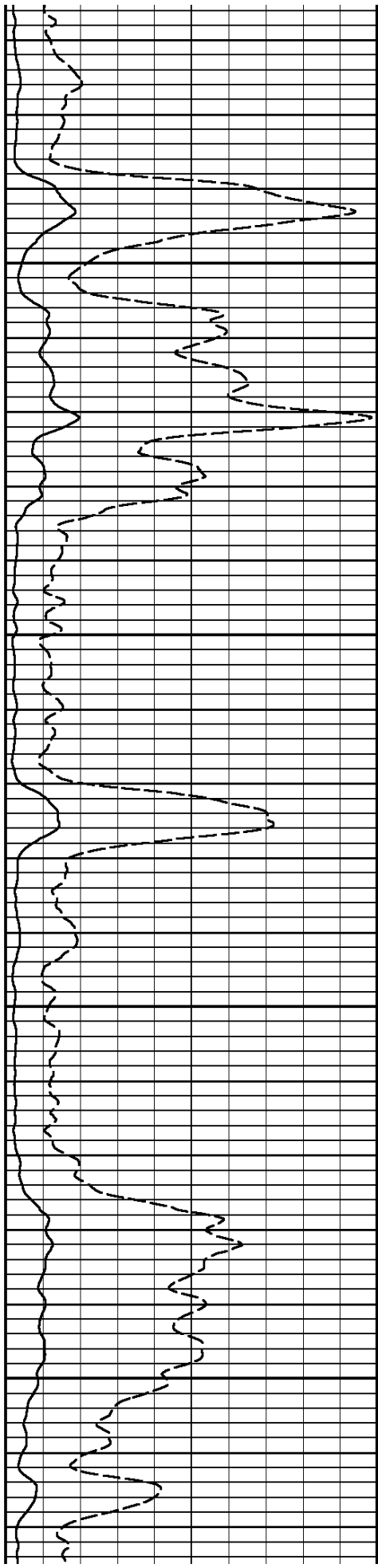
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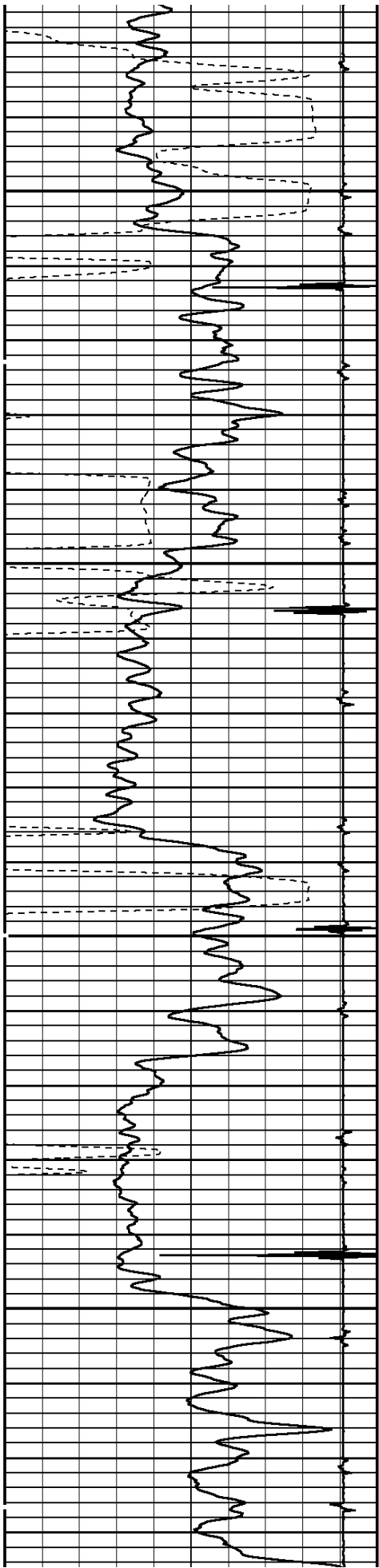




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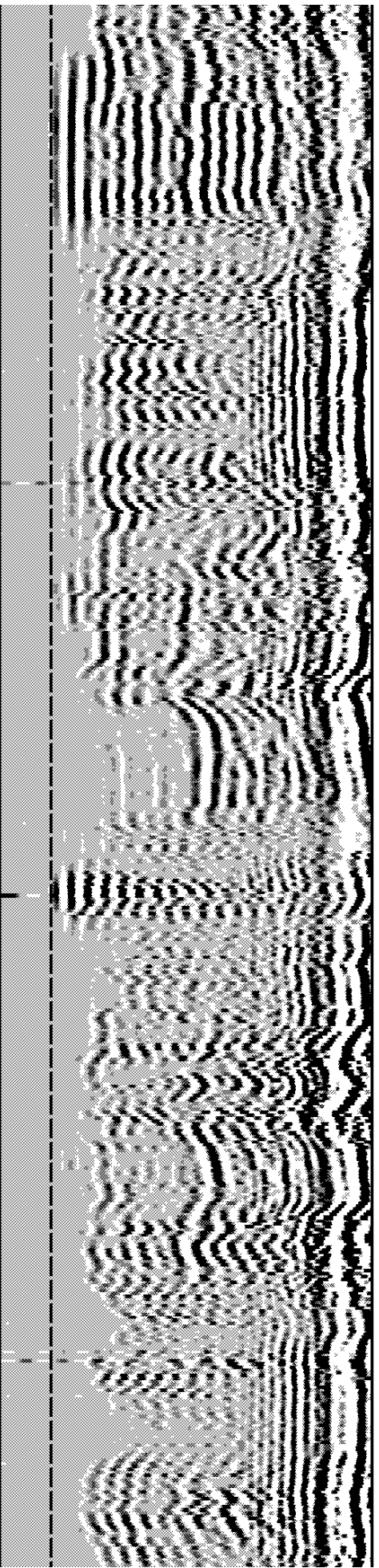
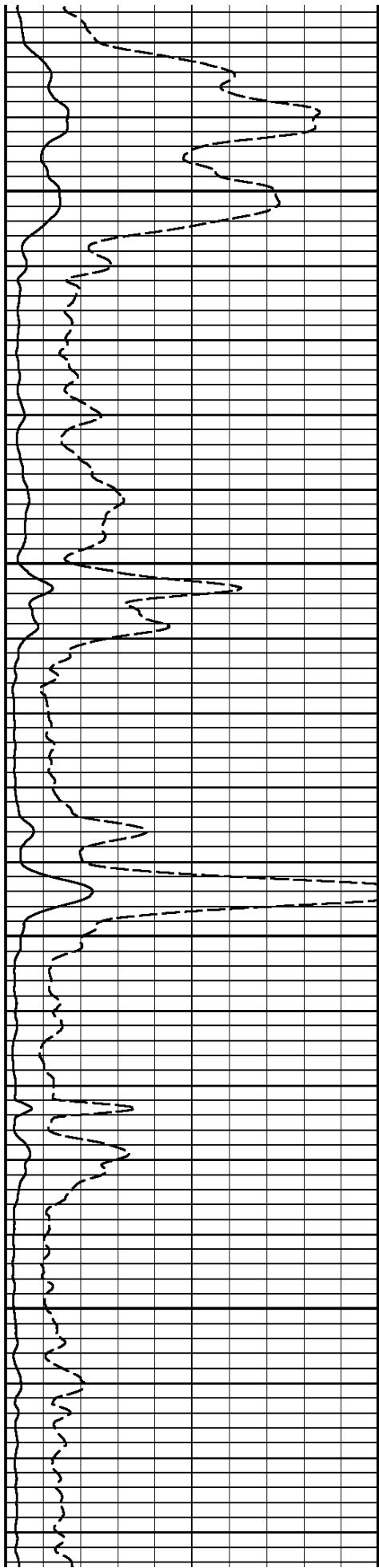
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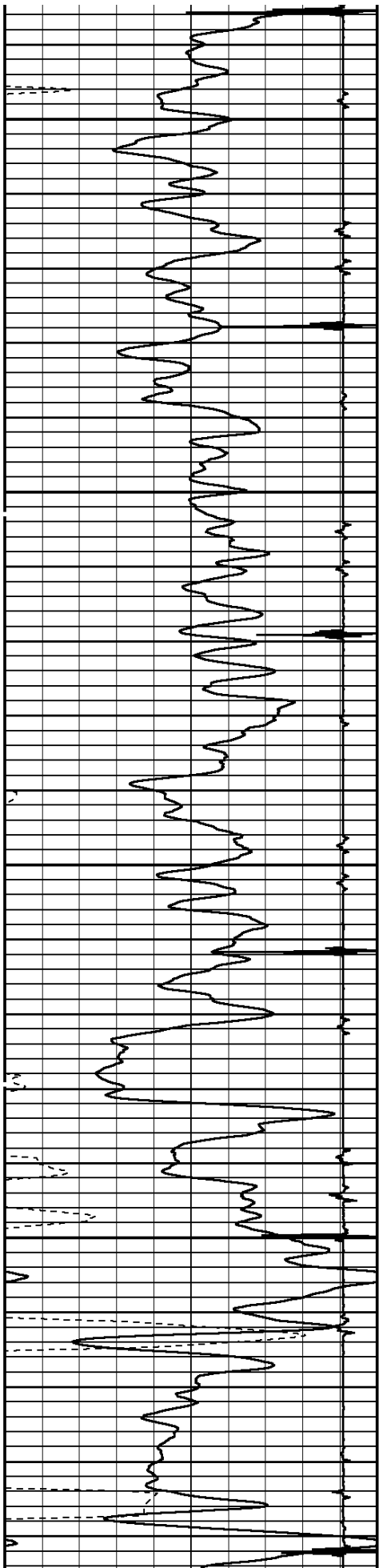




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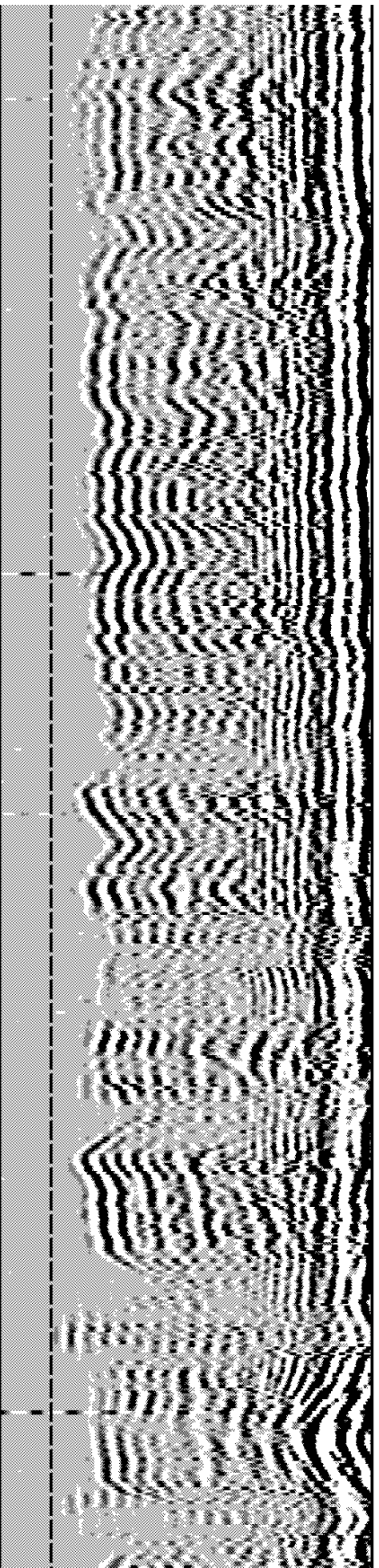
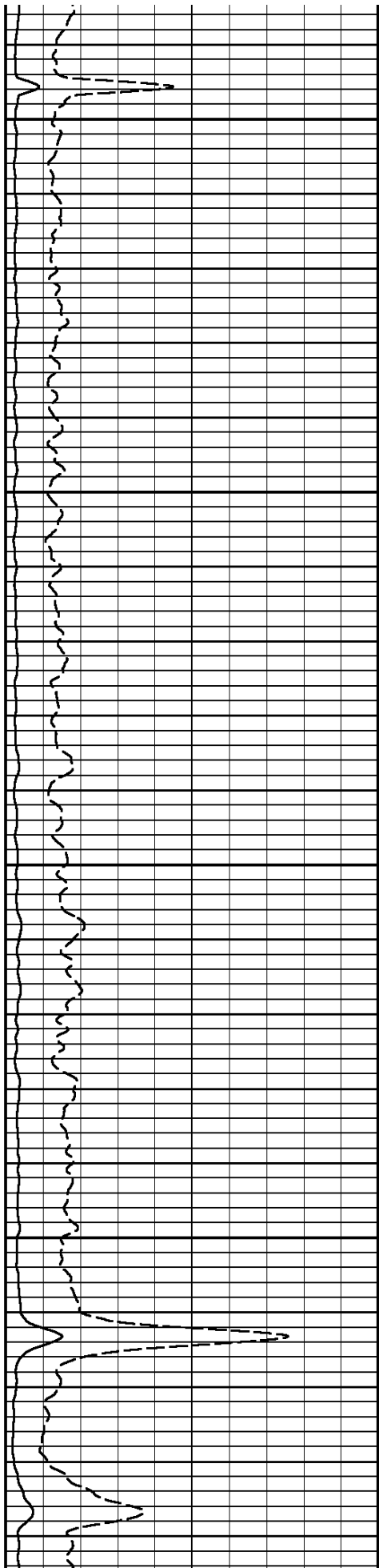
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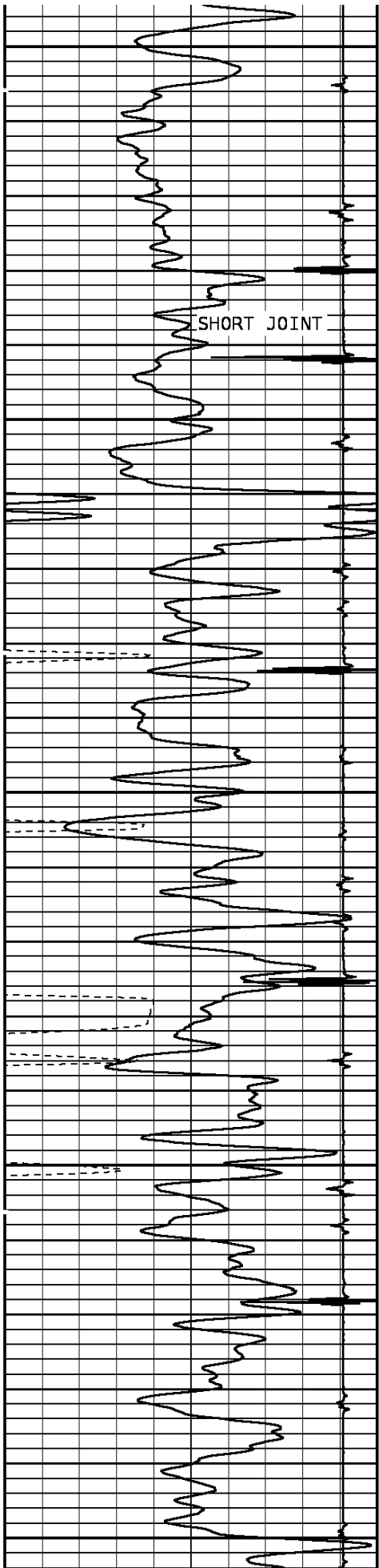




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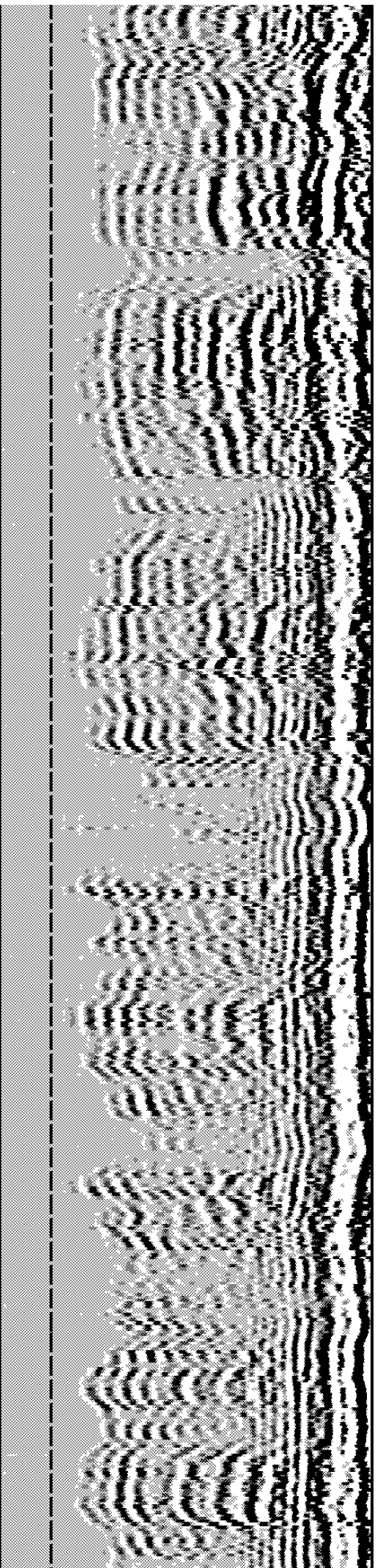
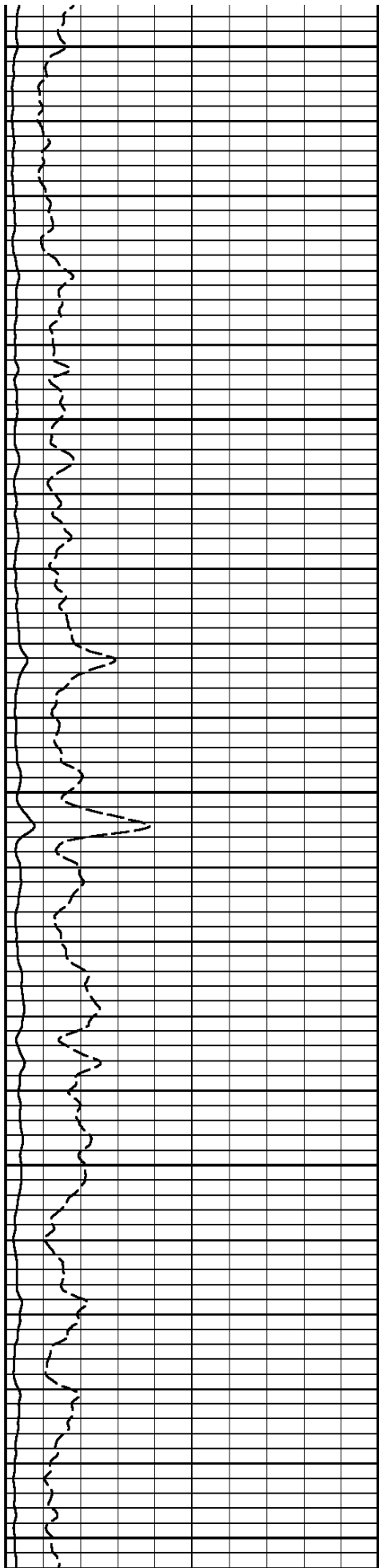
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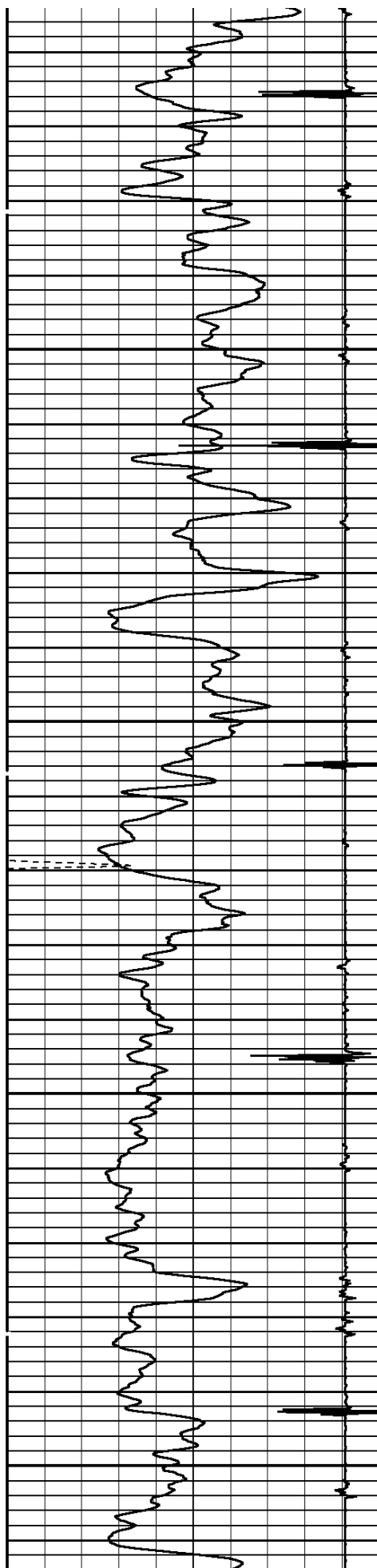




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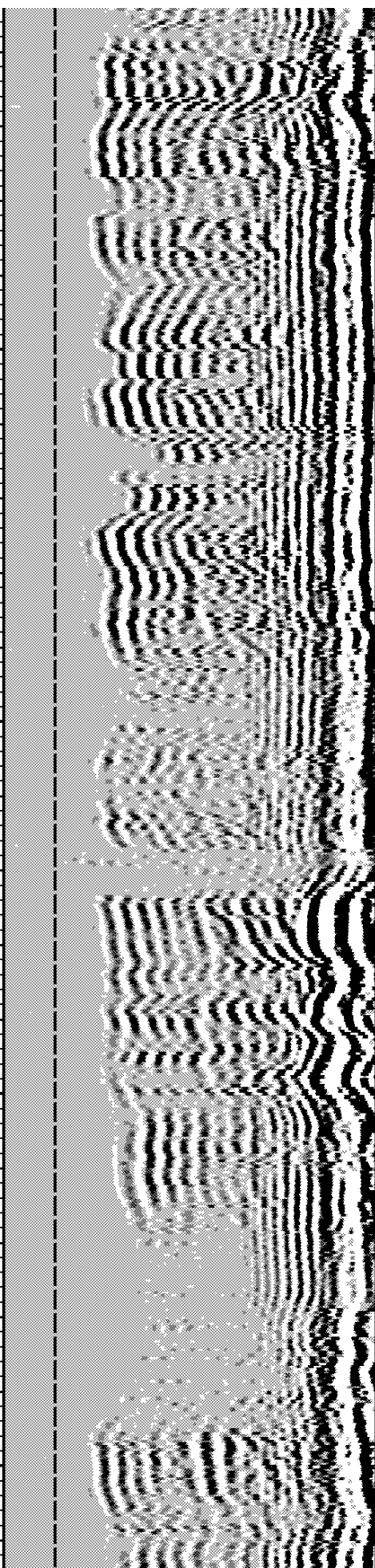
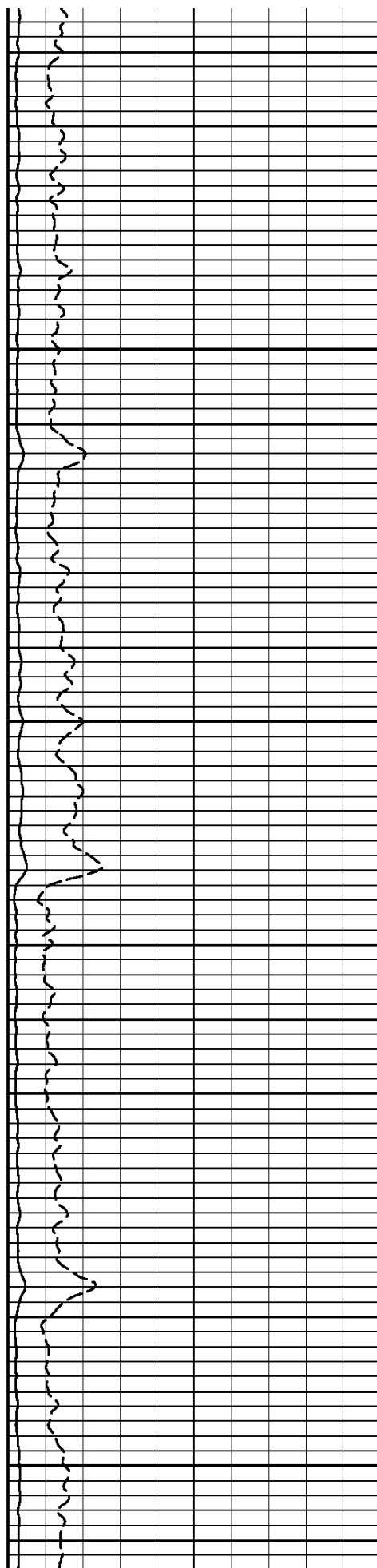
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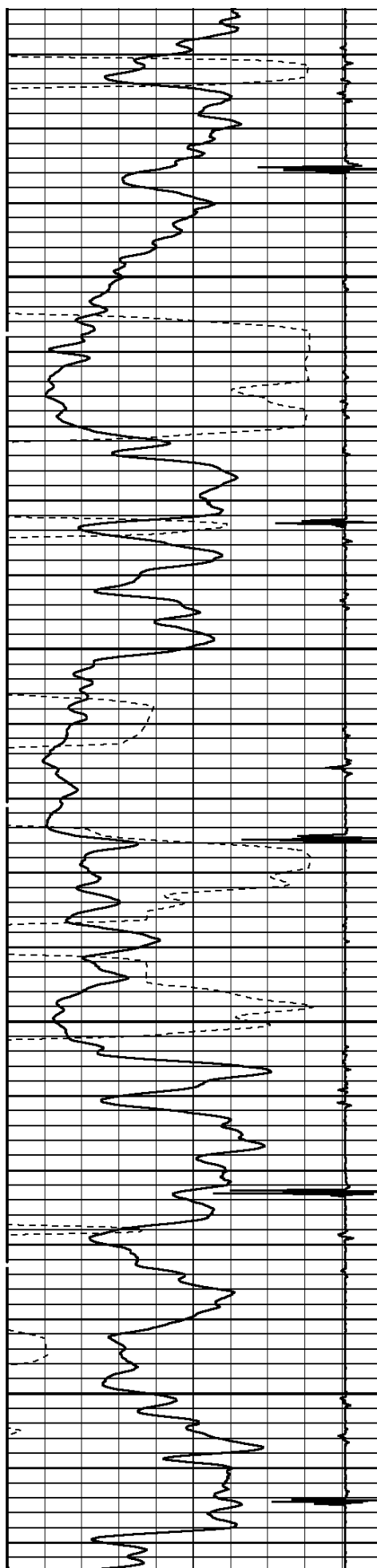




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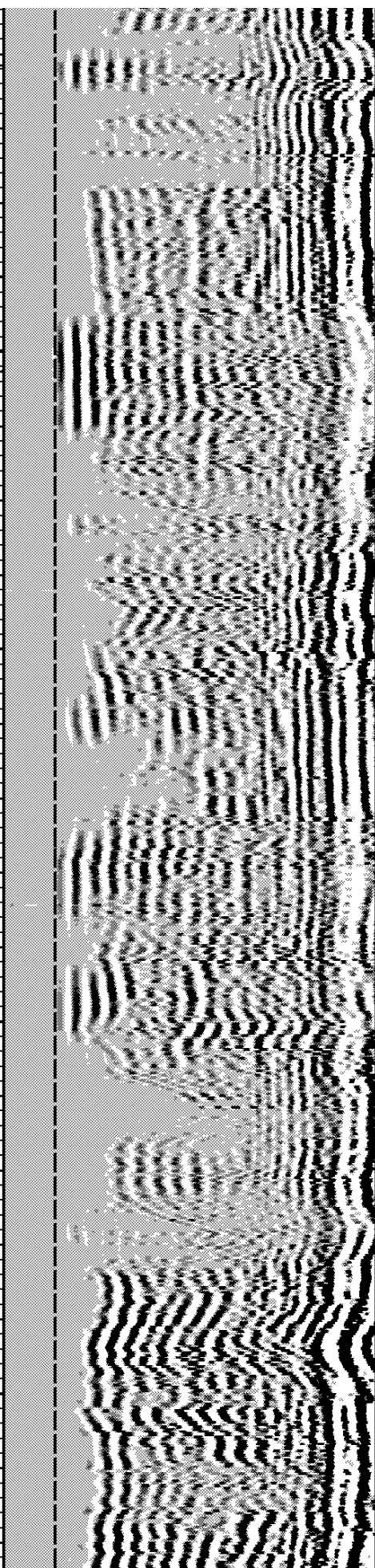
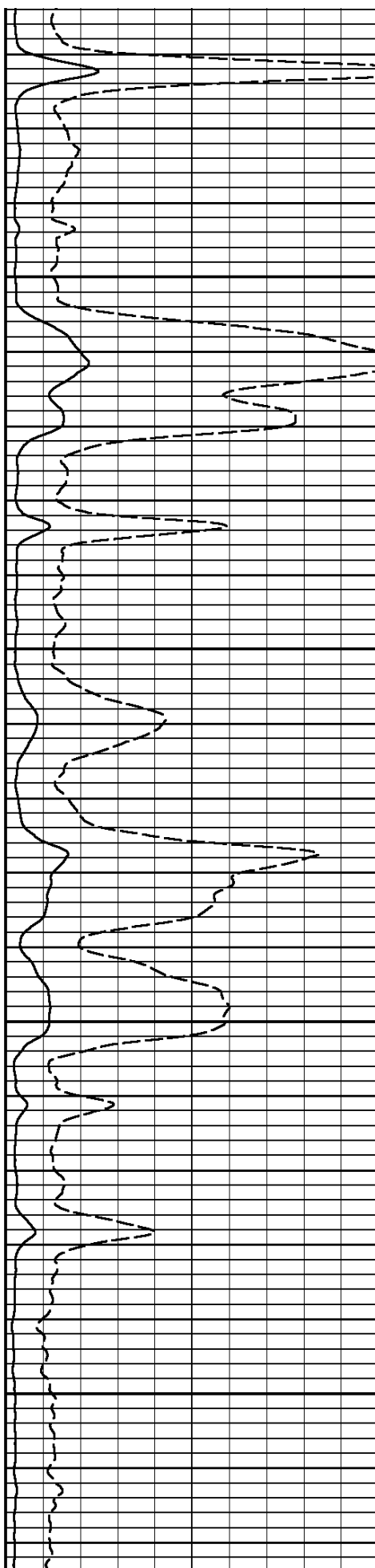
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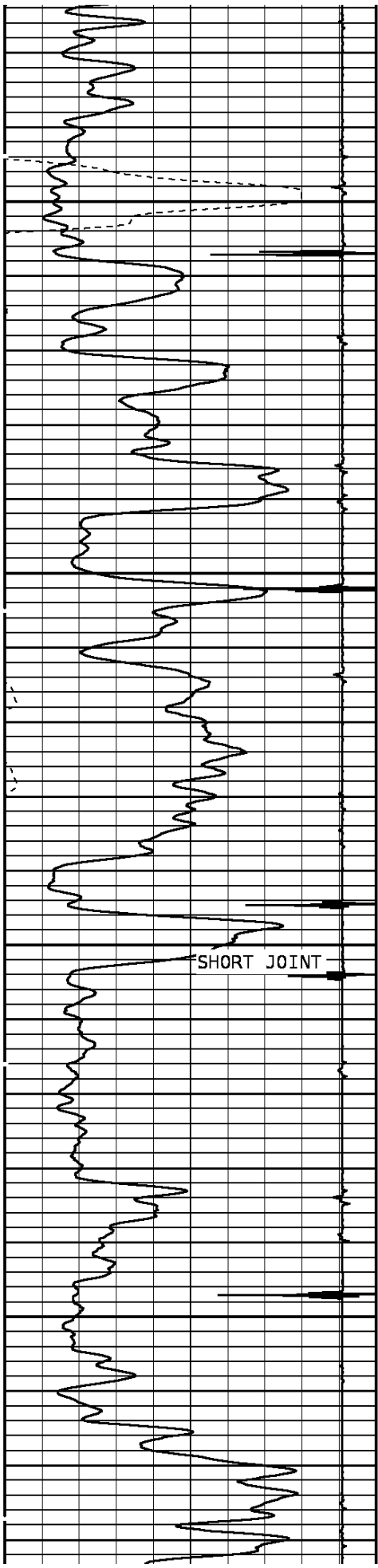




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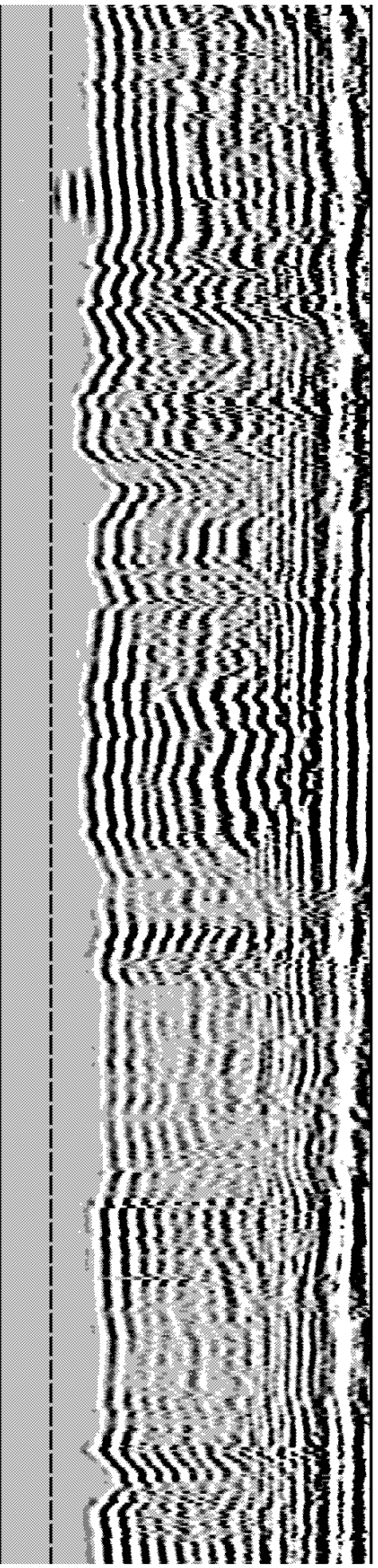
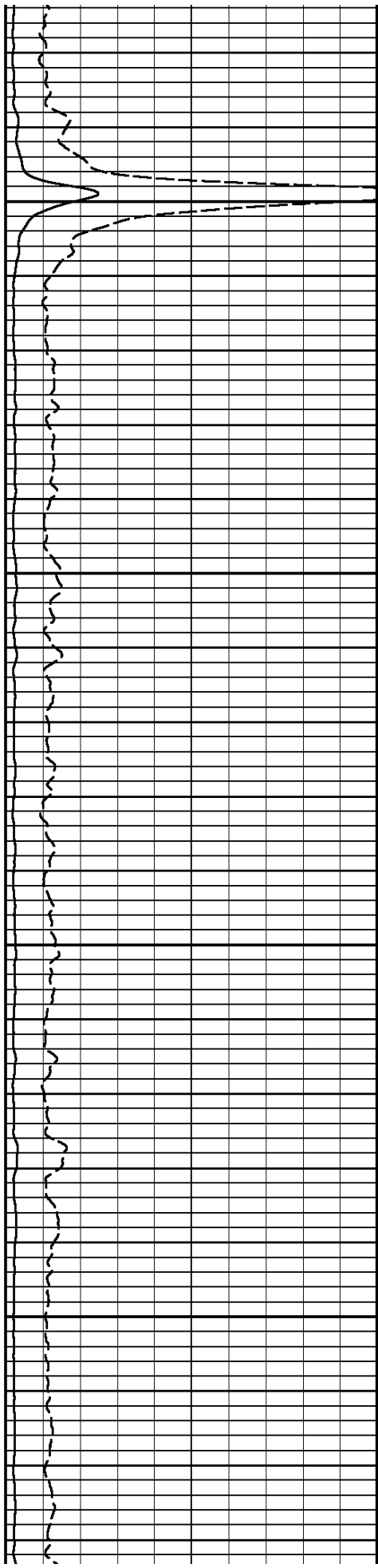
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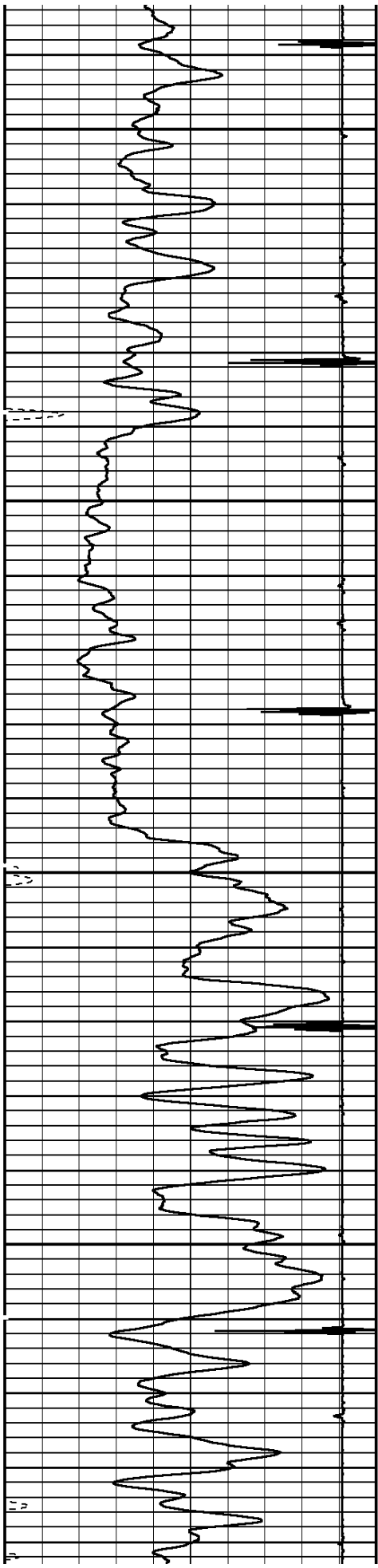




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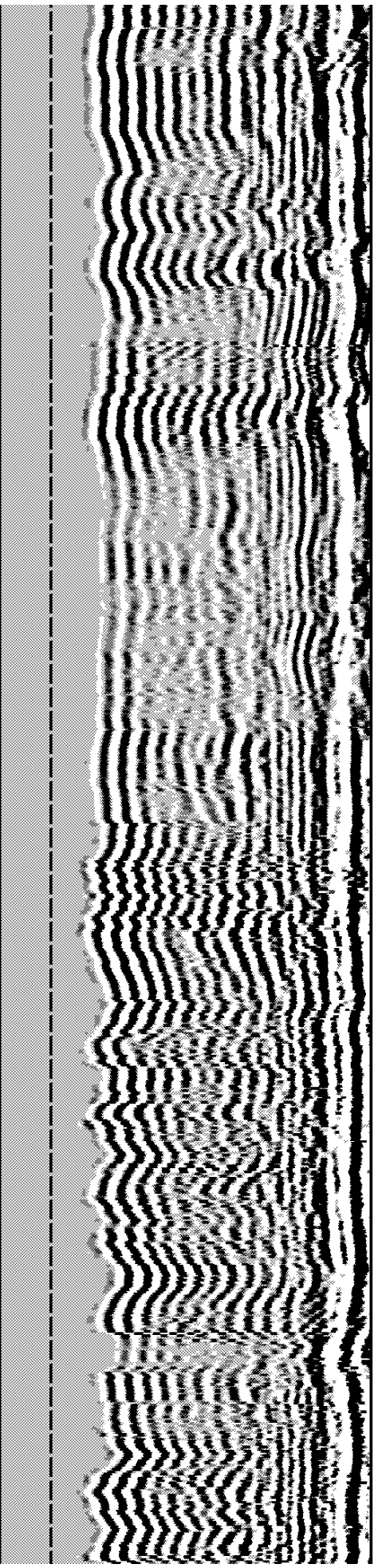
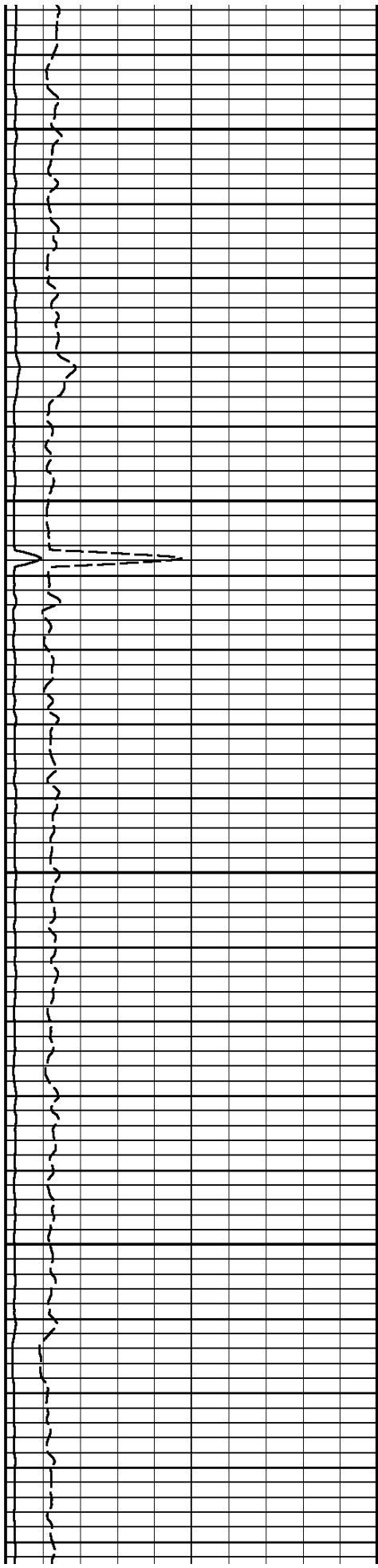
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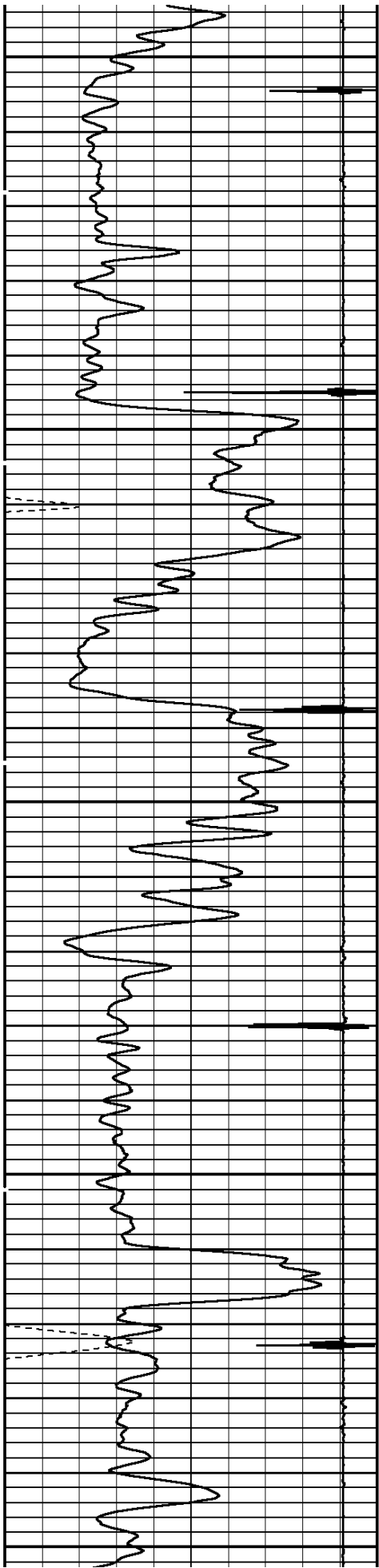




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8400

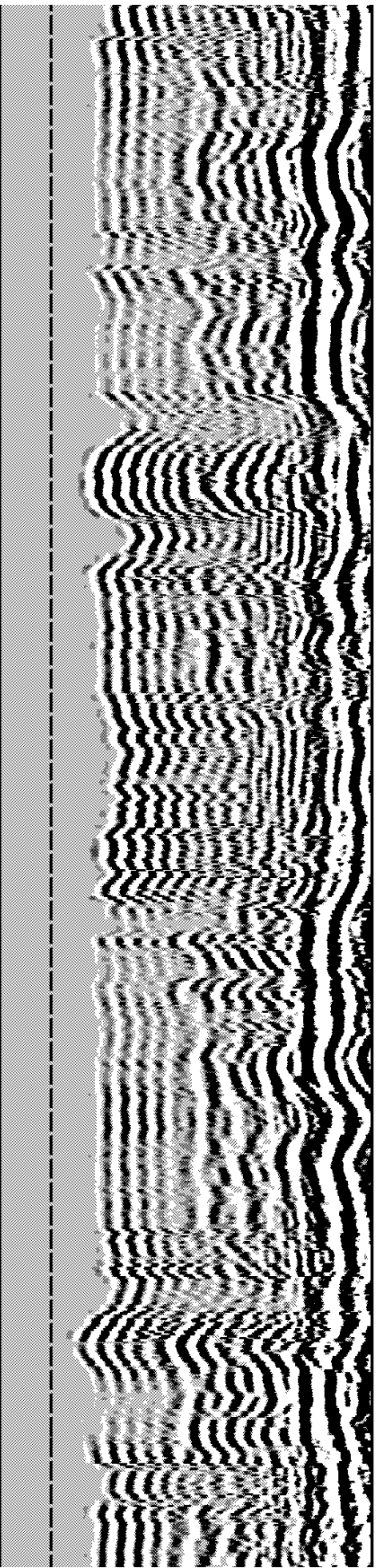
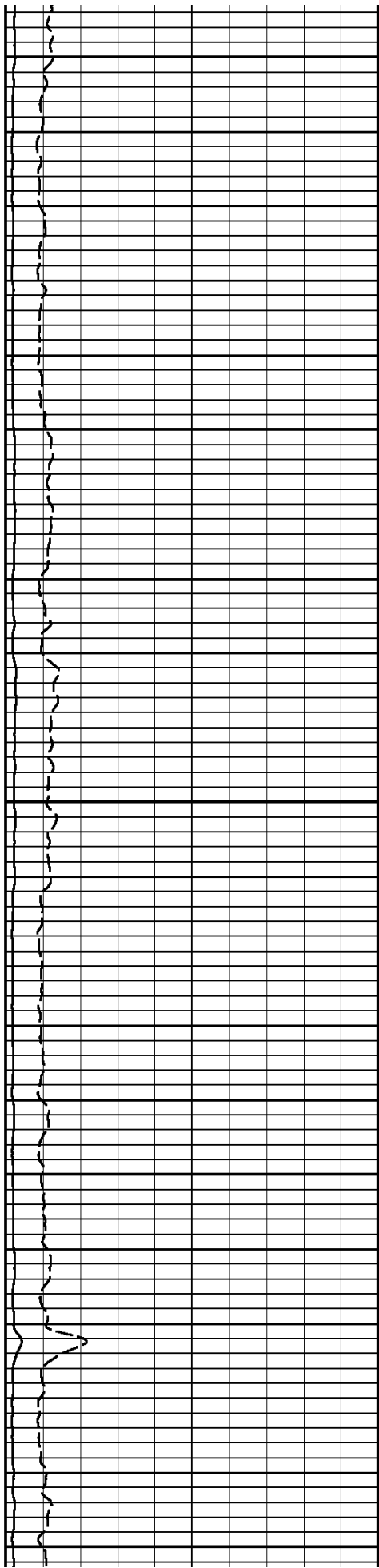


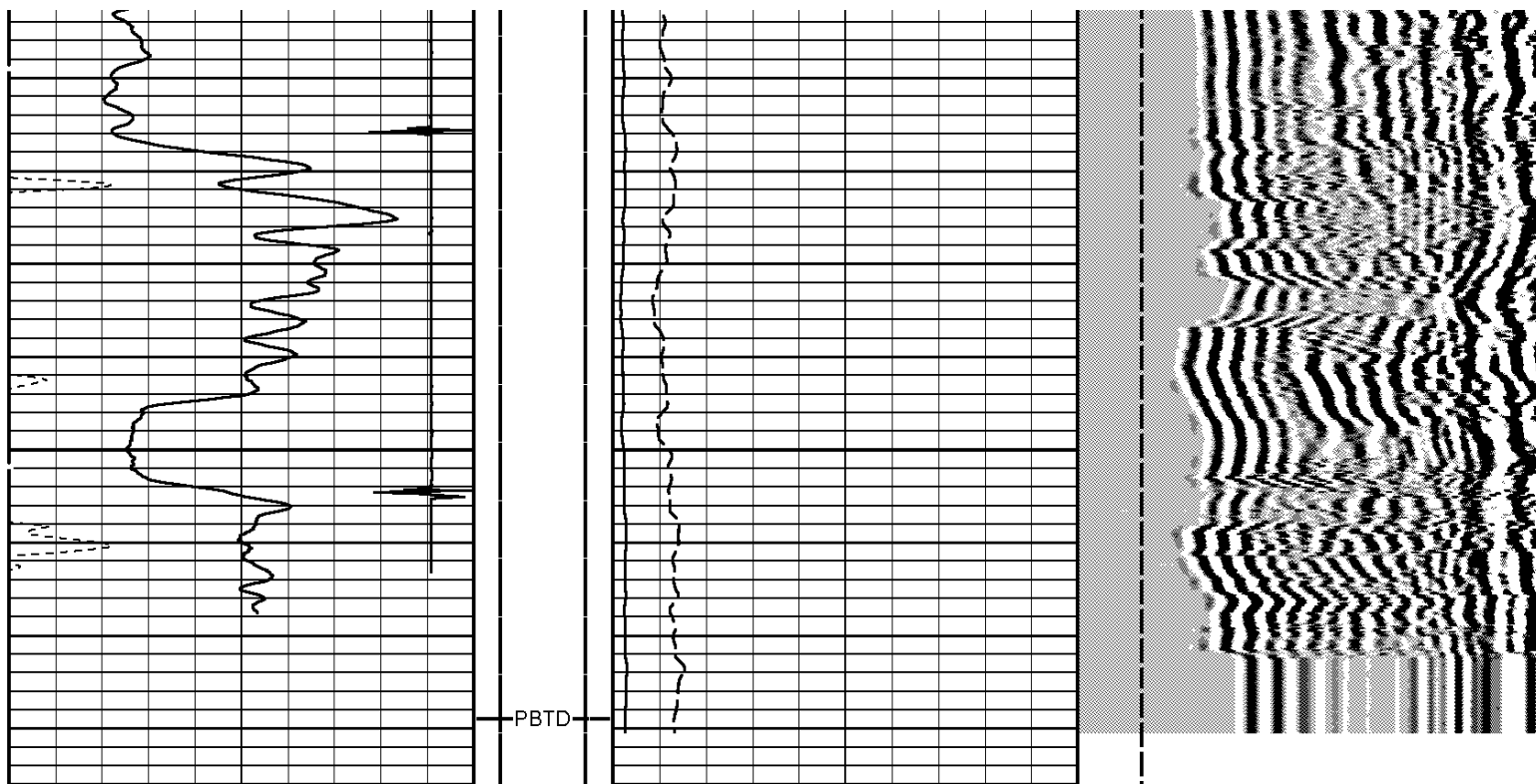


8500

8600

8700





TRAVEL TIME 3FT			AMPLITUDE 3FT			VARIABLE DENSITY 5FT		
310	Microseconds	210	0	Millivolts	100	200	Microseconds	1200
GAMMA RAY			AMPLIFIED 3FT AMP			FREE PIPE TT		
0	API	150	0	Millivolts	20	200.00	Microseconds	1200.00
COLLAR LOCATOR								
-2500	Millivolts	250						

START DEPTH: **8786.8** DIRECTION: **UP** DATE: **02/22/2008** TIME: **09:30** MODE: **RECOMPUTE**
 RECOMPUTED DATE: **02/22/2008** TIME: **09:30**

142871 CBLMAINFIN

MAIN PASS

 DEPTH SCALE: **5":100'** VERSION: **712175430"**

REMARKS

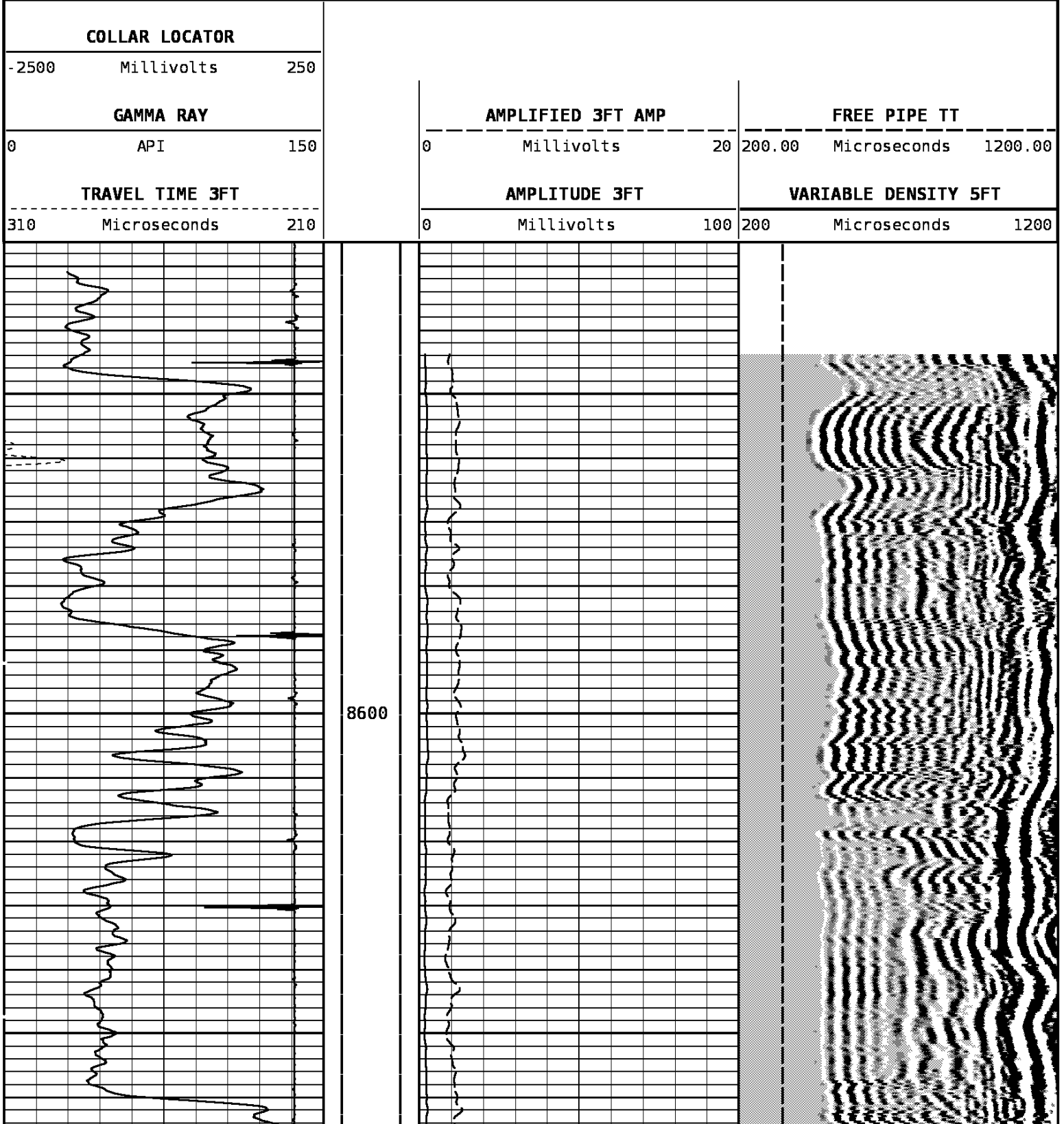
REPEAT PASS LOGGED WITHOUT PRESSURWE

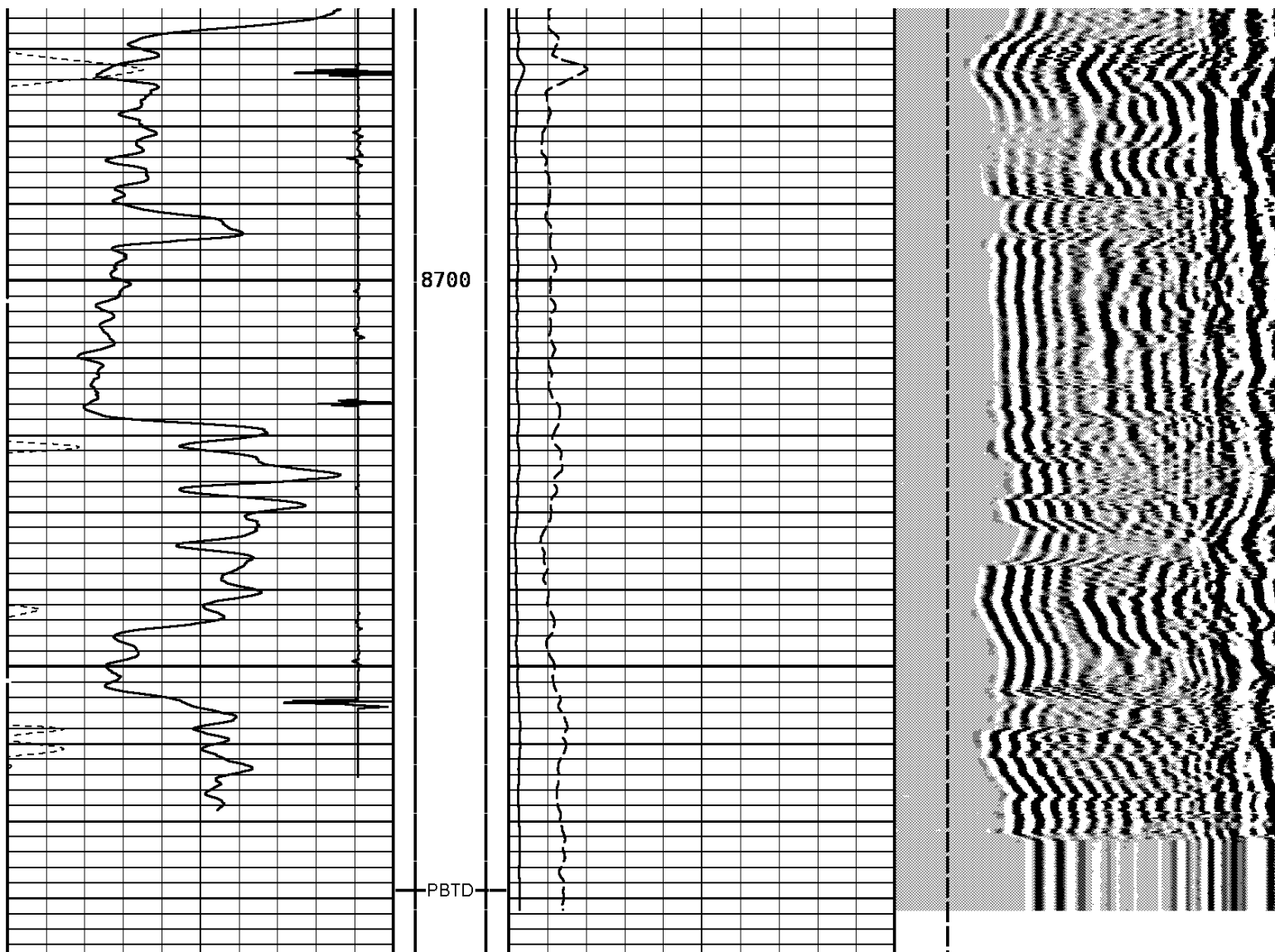
 DEPTH SCALE: **5":100'** VERSION: **712175430"**

REPEAT PASS

142871 CBLREPFIN

FINISH DEPTH: **8550.0** Feet DIRECTION: **UP** DATE: **02/22/2008** TIME: **08:35** MODE: **ORIGINAL**
 RECOMPUTED DATE: **02/22/2008** TIME: **08:35**





TRAVEL TIME 3FT			AMPLITUDE 3FT			VARIABLE DENSITY 5FT		
310	Microseconds	210	0	Millivolts	100	200	Microseconds	1200
GAMMA RAY			AMPLIFIED 3FT AMP			FREE PIPE TT		
0	API	150	0	Millivolts	20	200.00	Microseconds	1200.00
COLLAR LOCATOR								
-2500	Millivolts	250						

START DEPTH: **8787.8** DIRECTION: **UP** DATE: **02/22/2008** TIME: **08:35** MODE: **ORIGINAL**
 RECOMPUTED DATE: **02/22/2008** TIME: **08:35**

142871 CBLREPFIN

REPEAT PASS

DEPTH SCALE: **5":100'**

VERSION: **712175430"**

Cased Hole Cablehead

Weight	<u>2.2 lb</u>
Length	<u>1.0 ft</u>
Max. Diameter	<u>1.7 in</u>

Total Stack Weight 219.2 lb in air
Total Stack Length 27.83 ft

Slim Hole Centralizer

Weight	11.9 lb
Length	2.49 ft
Max. Diameter	2.7 in

Collar Locator

Weight	<u>39.8 lb</u>
Length	<u>3.40 ft</u>
Max. Diameter	<u>2.7 in</u>

Slim Hole Gamma Ray

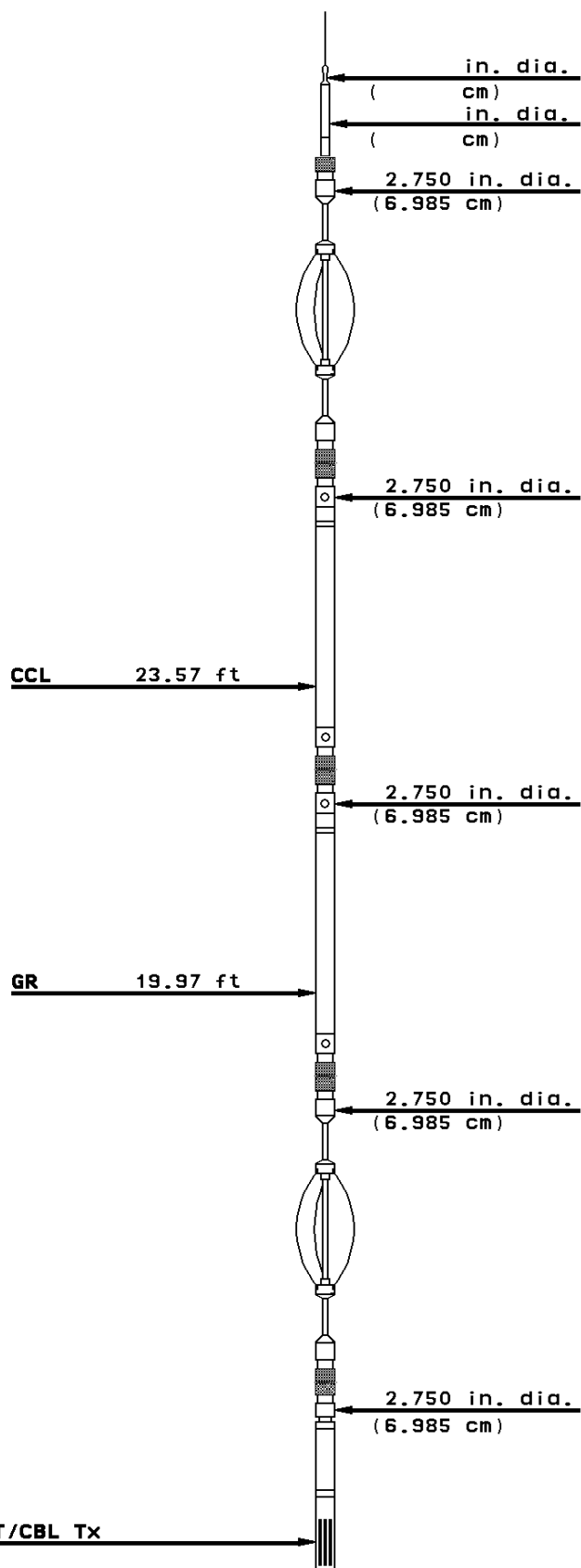
Weight	<u>39.8 lb</u>
Length	<u>4.71 ft</u>
Max. Diameter	<u>2.7 in</u>

Slim Hole Centralizer

Weight	<u>23.8 lb</u>
Length	<u>3.08 ft</u>
Max. Diameter	<u>2.7 in</u>

Sector Bond

Weight	<u>89.8 lb</u>
Length	<u>10.32 ft</u>



Max. Diameter 2.7 in

SBT Rx 7.77 ft

3' Rx 7.28 ft

5' Rx 6.28 ft

2.750 in. dia.
(6.985 cm)

Slim Hole Centralizer

Weight 11.9 lb
Length 2.82 ft
Max. Diameter 2.7 in

Tool Zero

COMPANY WEXPRO COMPANY

WELL CARL ALLEN # 27

FIELD POWDER WASH

COUNTY MOFFAT

STATE COLORADO



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