

ACOUSTIC CEMENT  
BOND LOG  
4.5"/11.6# CASING

COMPANY BILL BARRETT  
CORPORATION  
WELL JCJ 21C-21-692

FIELD MAMM CREEK  
CNTY GARFIELD STATE CO

COMPANY BILL BARRETT CORPORATION

WELL JCJ 21C-21-692

FIELD MAMM CREEK

COUNTY GARFIELD

STATE COLORADO

LOCATION:

SHL: 1566' FNL & 1329' FWL  
BHL: 0530' FNL & 1980' FWL

OTHER SERVICES:  
JB/GR 3.781"  
@ 7797'

SEC. 21

TWP. 6S

RGE. 92W

PERM. DATUM GROUND LEVEL  
LOG MEASURED FROM K.B. 17 FT. ABOVE PERMANENT DATUM  
DRILLING MEASURED FROM KELLY BUSHING

ELEV. 5680'  
ELEV.: K.B. 5697'  
D.F. 5696'  
G.L. 5680'

DATE 14-JAN-2009

API#:

05-045-16868

RUN NO.

ONE

DEPTH DRILLER

7956'

DEPTH LOGGER

7797'

BITM. LOG INTERVAL

7791'

TOP LOG INTERVAL

3300'

OPEN HOLE SIZE

7.875"

TYPE FLUID

Water Based

DENS.

8.3

W/A

MAX. REC. TEMP. F

190 DEG FHT.

EST. CEMENT TOP

4014'

TIME WELL READY

ROA

TIME LOGGER ON BITM.

SEE LOG

EQUIP. NO.

14113

LOCATION

GRAND JUNCTION

RECORDED BY

BRUCE MILLER

WITNESSED BY

GARY EITER

BOREHOLE RECORD

BIT

FROM

TO

SIZE

WGT.

FROM

TO

CASING RECORD

SIZE

WT/FT

GRADE

TYPE JOINT

TOP

BOTTOM

SURFACE STRING

9.625"

36#

PROD. STRING

4.500"

11.6

I-80

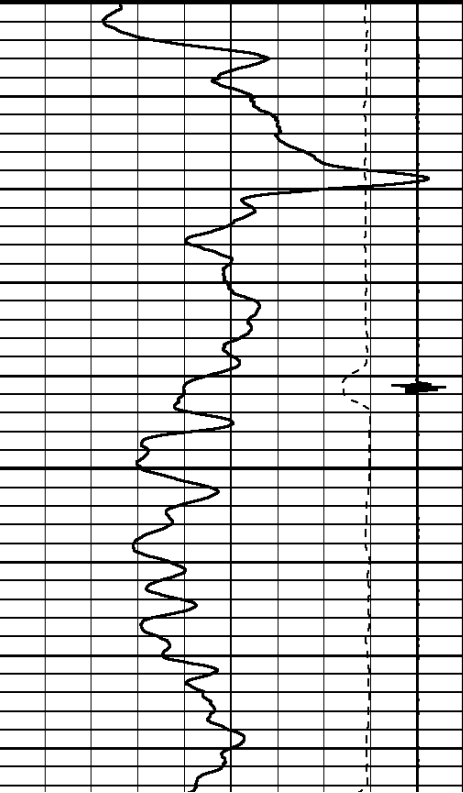
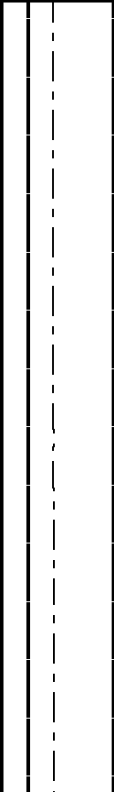
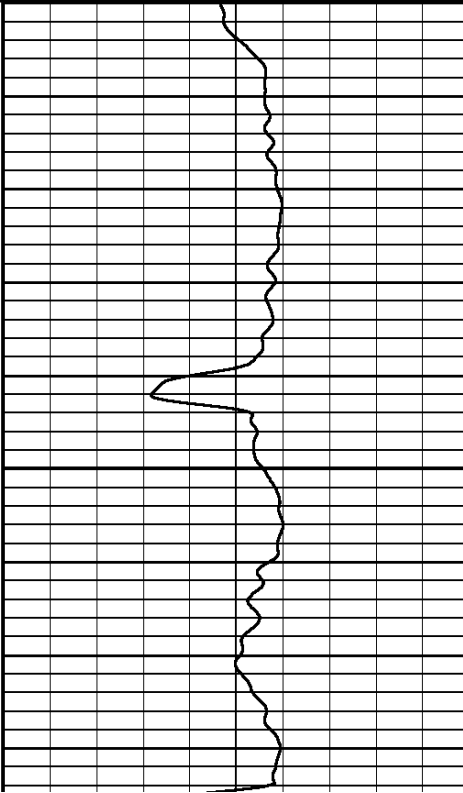
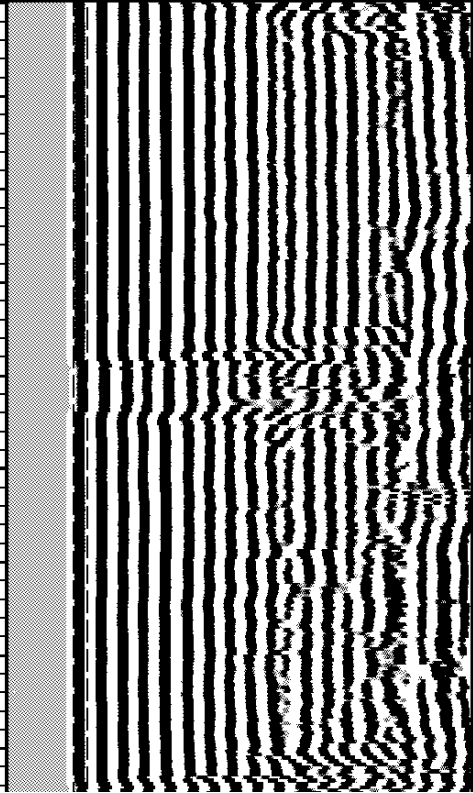
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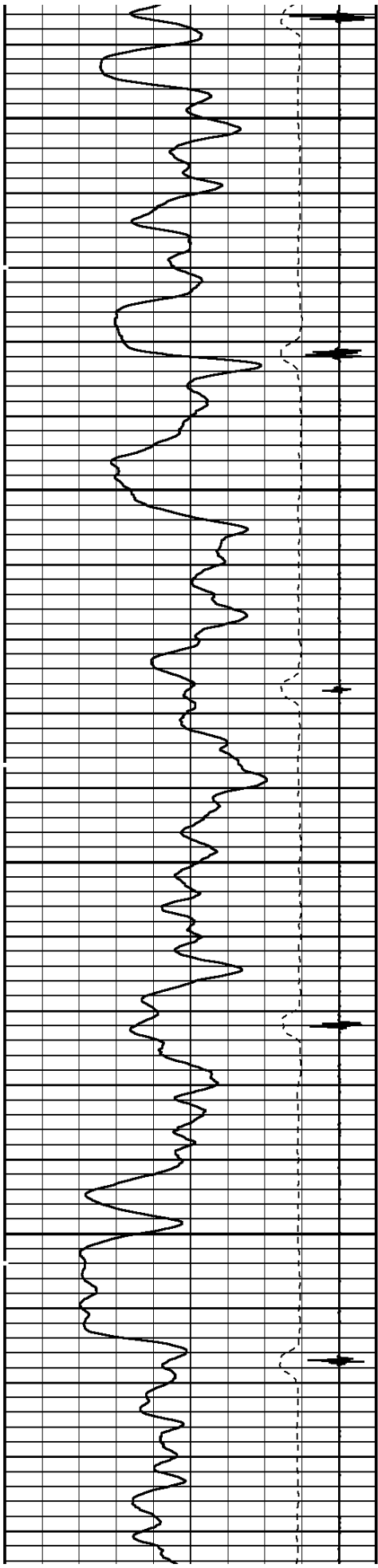
SEE REMARKS

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: CRANE #15062 Service Order # 156895  
LOG WAS CORRELATED -8' TO WEATHERFORD TRIPLE COMBO LOG DATED 23-NOV-2008. BHT 190 °F  
SHORT JOINTS WERE FOUND @ 5719.5'-5748'. AND 7500'-7529'.  
EST. TOP OF CEMENT WAS FOUND @ 4014'. LOG WAS DEPTH ADJUSTED TO THE ABOVE  
MENTIONED OPEN HOLE LOG. WELL WAS LOGGED WITH 0 PSI @ SURFACE. Prints: 4  
YOUR CREW TODAY IS: JOHN YANC AND PAUL KRUGER.  
THANK YOU FOR CHOOSING WEATHERFORD WIRELINE, GRAND JUNCTION, CO. 970-263-8501.

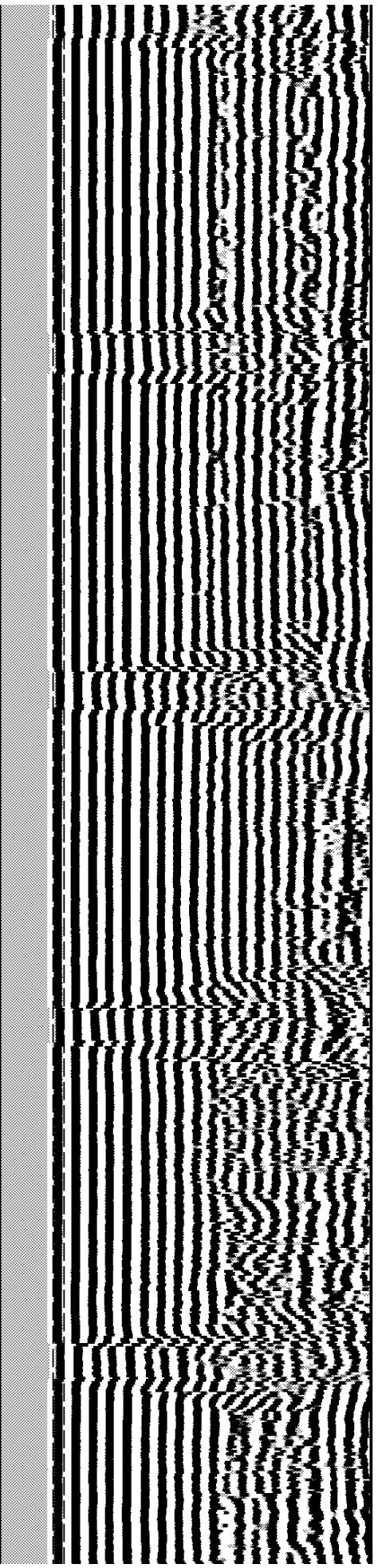
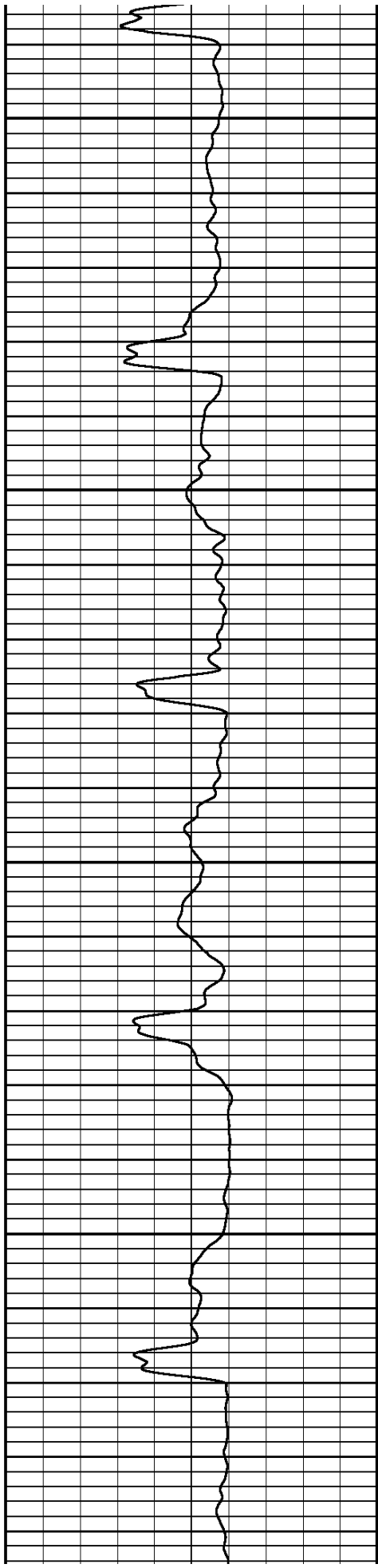
		EQUIPMENT DATA			
Bit Size	7.875"	Run No.	Tool Type	Tool No.	Other
Well Status	NEW DRILL	ONE	CTBA	172	
Surface Pressure		ONE	GRBA	172	
Shut In	Flowing	ONE	CENB	257	
0 PSI	NO	ONE	SBTA	339	
		ONE	CENC	210	

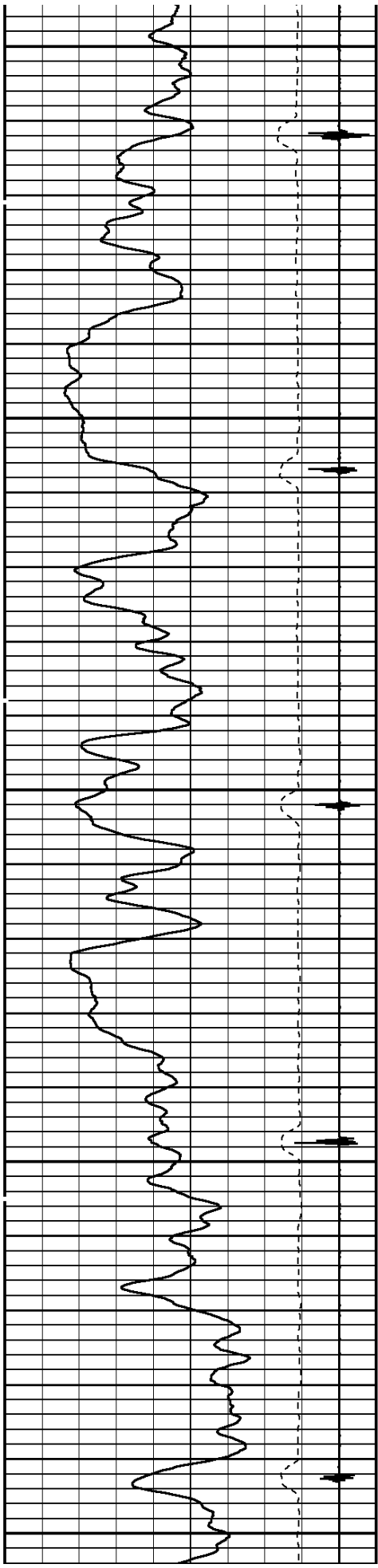

<div style="text-align: center;">REMARKS</div> <div style="text-align: center; margin-top: 20px;">LOGGED WITH 0 PSI @ SURFACE</div>									
<div style="text-align: center;">DEPTH SCALE: 5":100'</div>					<div style="text-align: center;">VERSION: 80214133R"</div>				
<div style="text-align: center;">MAIN PASS</div>									
<div style="text-align: center;">156895 CBLMAIN</div>									
<div>FINISH DEPTH: 3300.0 Feet    DIRECTION: UP    DATE: 01/14/2009    TIME: 13:01    MODE: ORIGINAL</div>									
Collar Locator							FREE PIPE GATE		
<div style="display: flex; justify-content: space-between;"> <span>-4000</span> <span>Millivolts</span> <span>440</span> </div>							<div style="display: flex; justify-content: space-between;"> <span>200</span> <span>Microseconds</span> <span>1200</span> </div>		
Gamma Ray							FREE PIPE GATE		
<div style="display: flex; justify-content: space-between;"> <span>0</span> <span>API</span> <span>150</span> </div>							<div style="display: flex; justify-content: space-between;"> <span>200</span> <span>Microseconds</span> <span>1200</span> </div>		
TRAVEL TIME 3FT			Tension		AMPLITUDE 3FT		VARIABLE DENSITY 5FT		
<div style="display: flex; justify-content: space-between;"> <span>310</span> <span>Microseconds</span> <span>210</span> </div>			<div style="display: flex; justify-content: space-between;"> <span>0</span> <span>2400</span> </div>		<div style="display: flex; justify-content: space-between;"> <span>0</span> <span>Millivolts</span> <span>100</span> </div>		<div style="display: flex; justify-content: space-between;"> <span>200</span> <span>Microseconds</span> <span>1200</span> </div>		
									



3400

3500

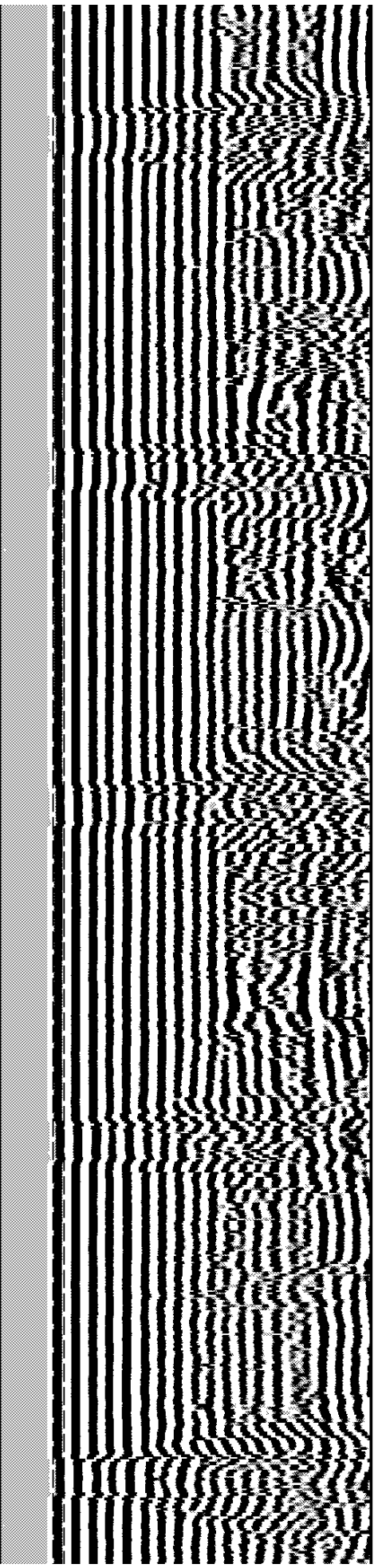
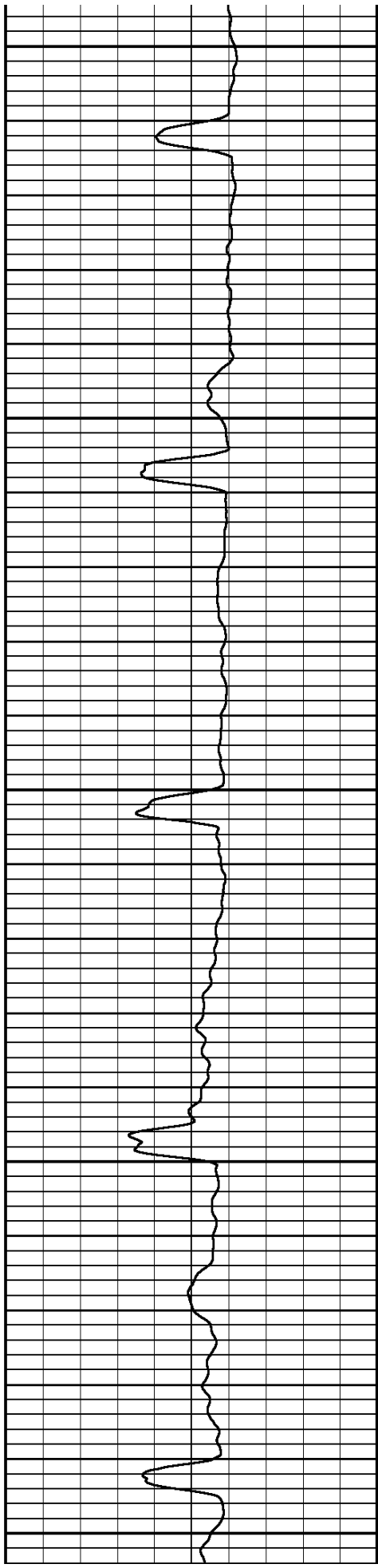


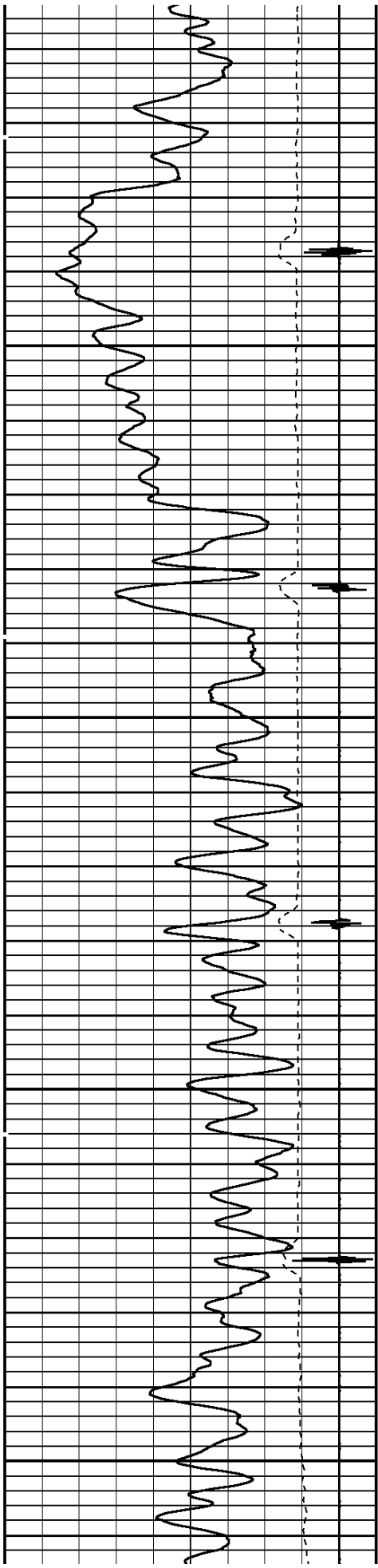


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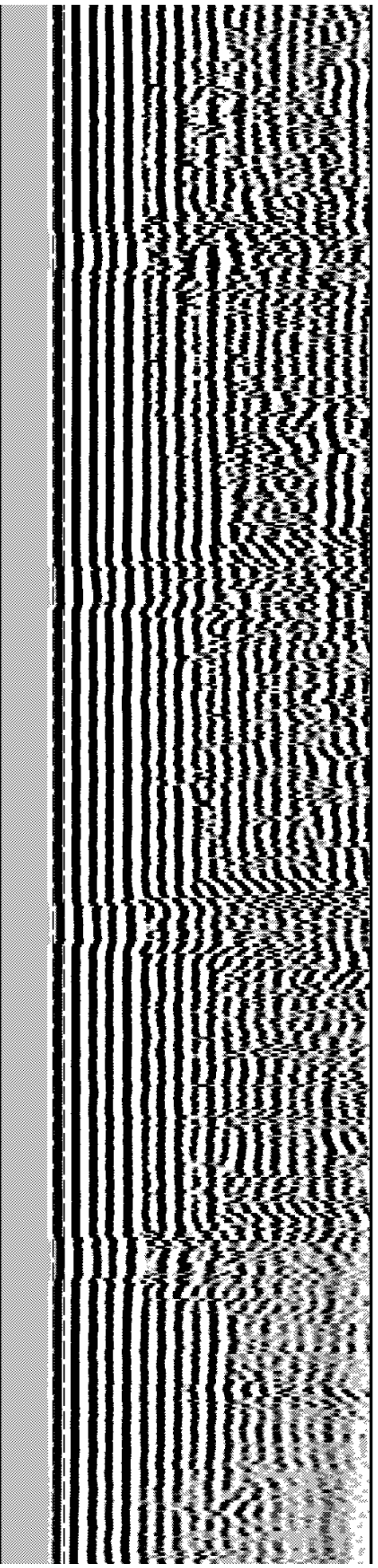
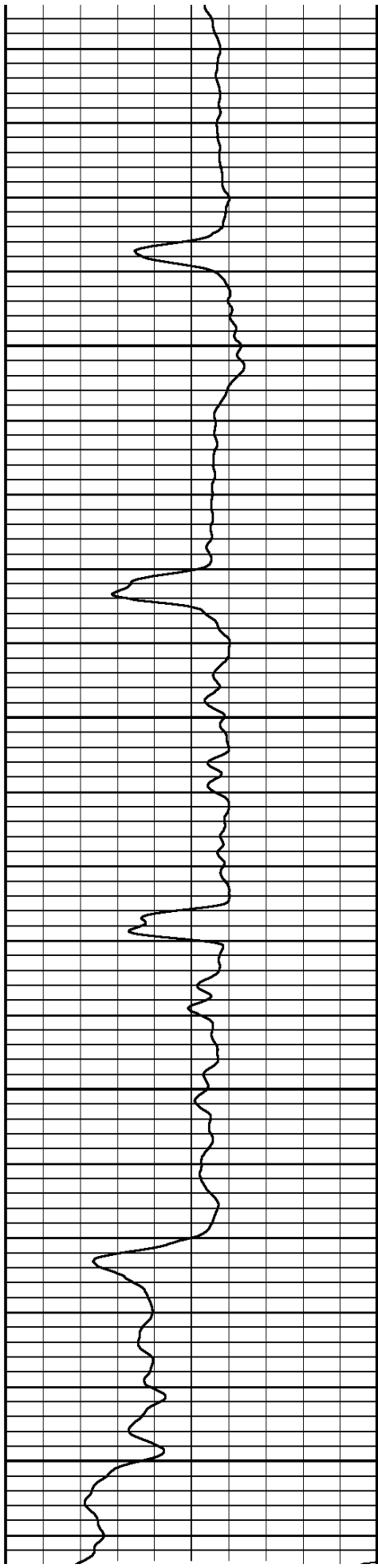
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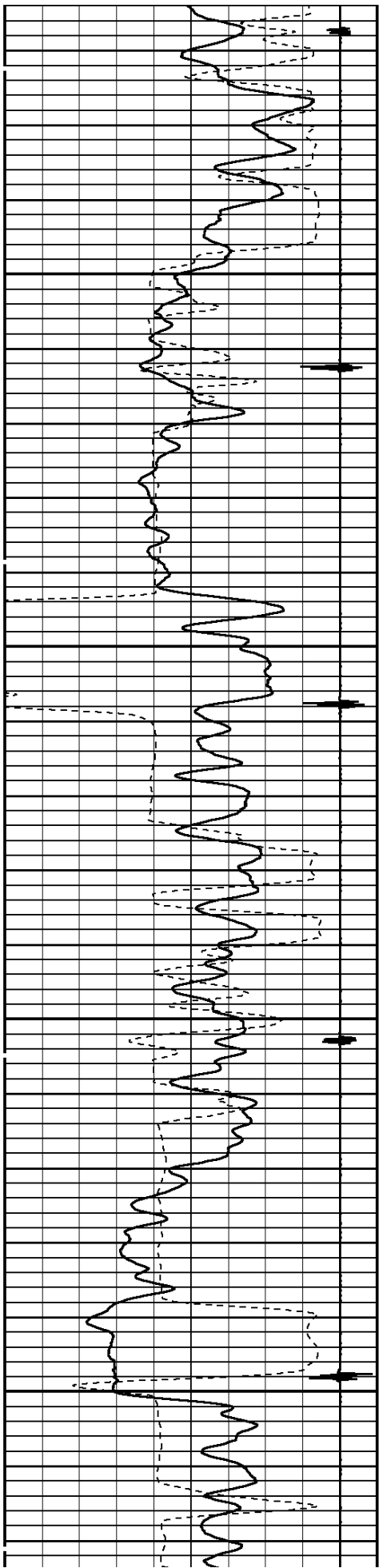




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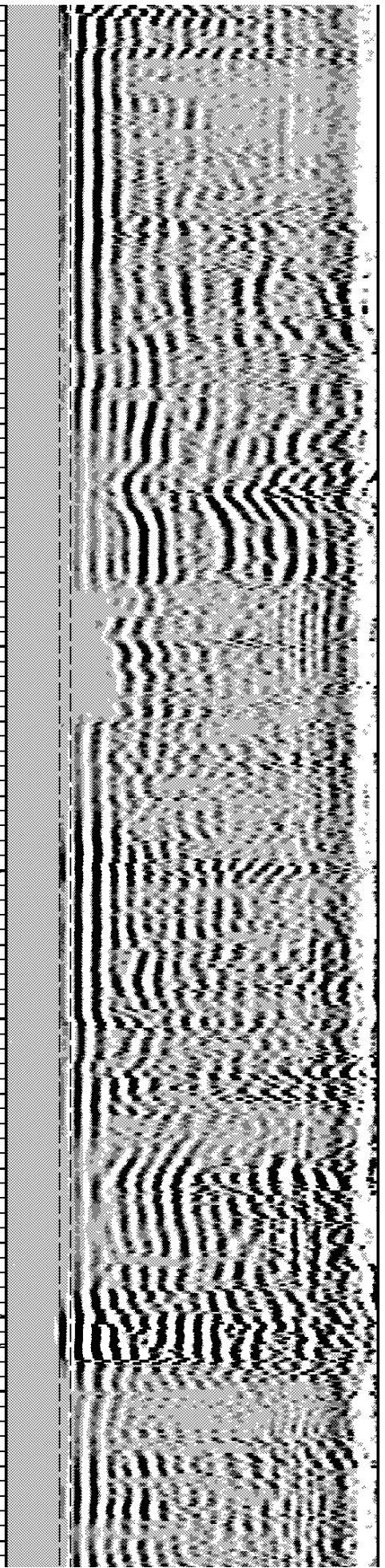
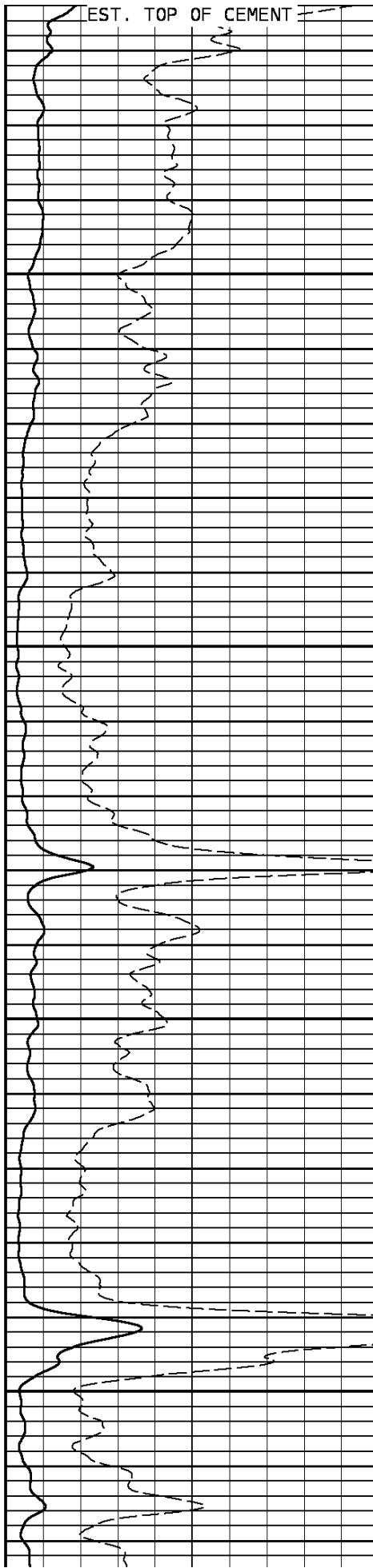
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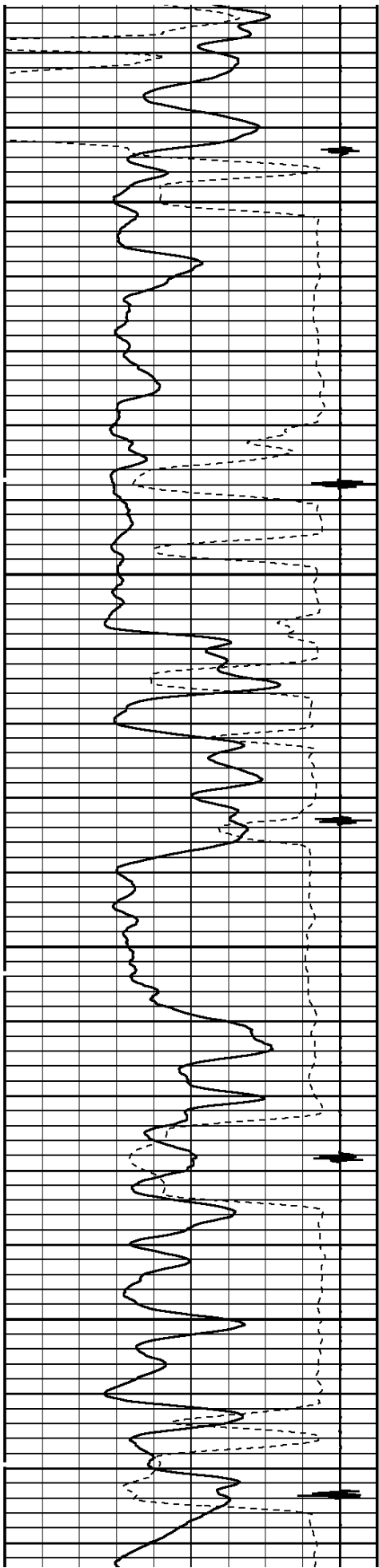




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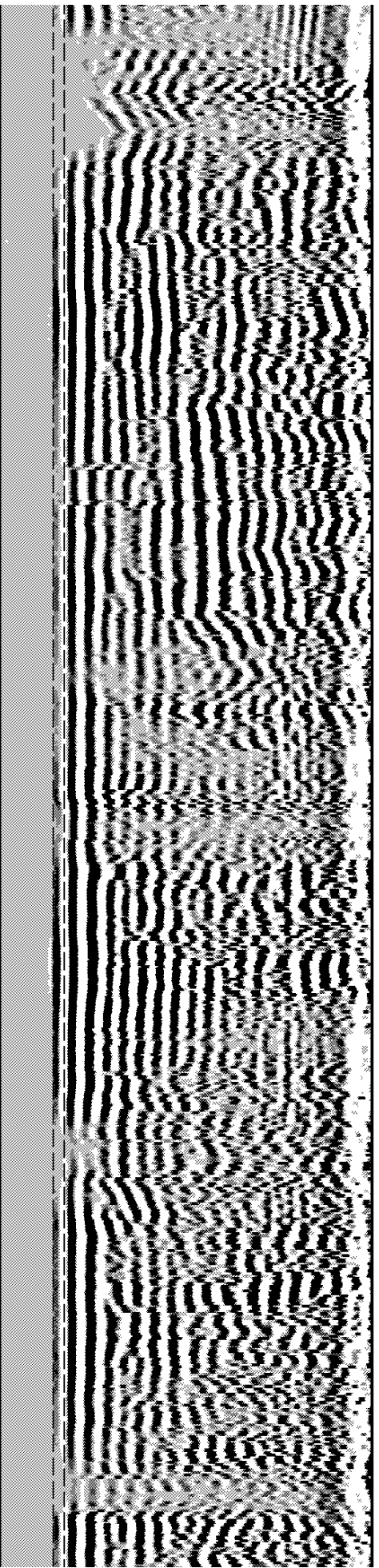
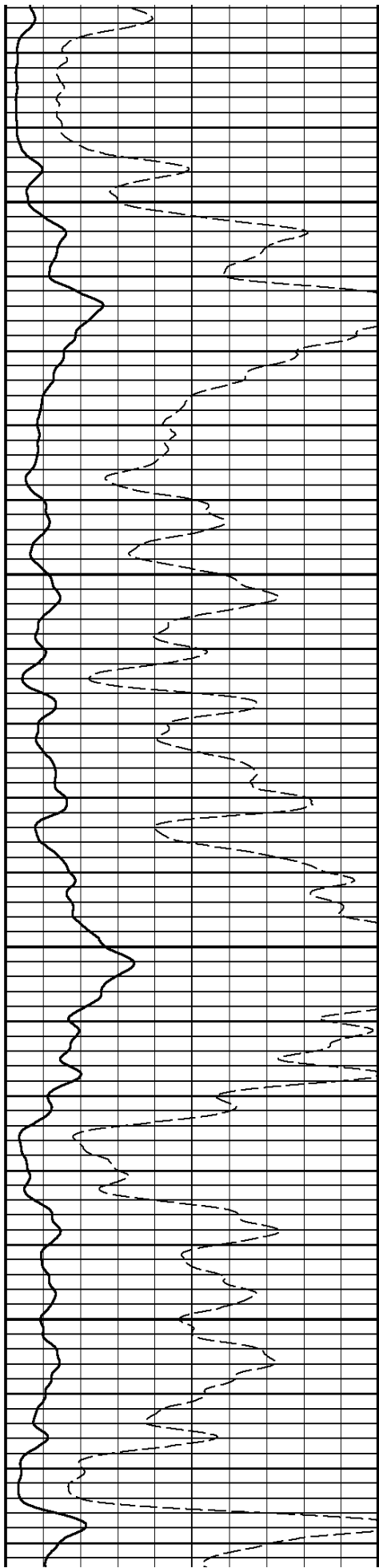
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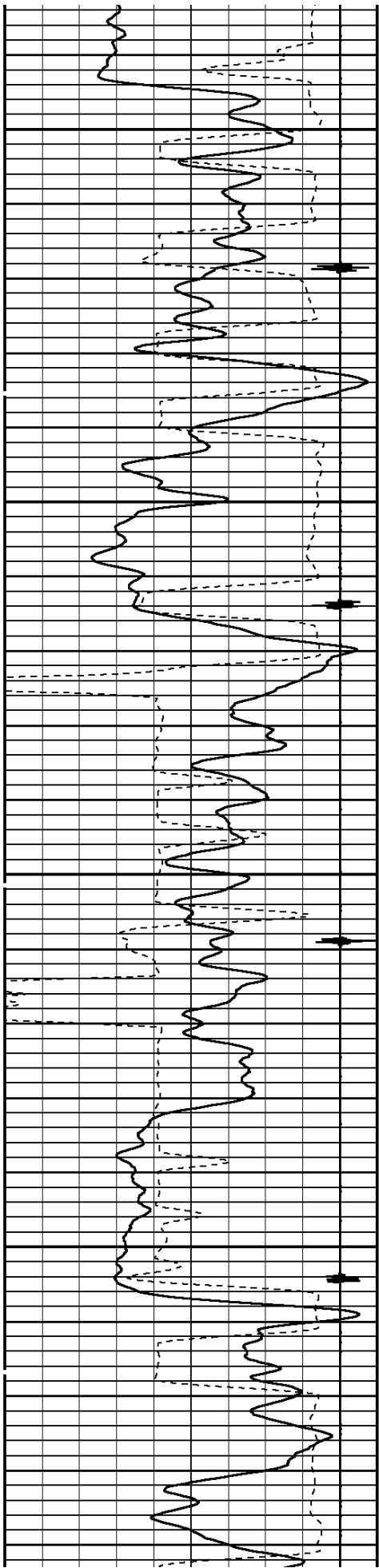




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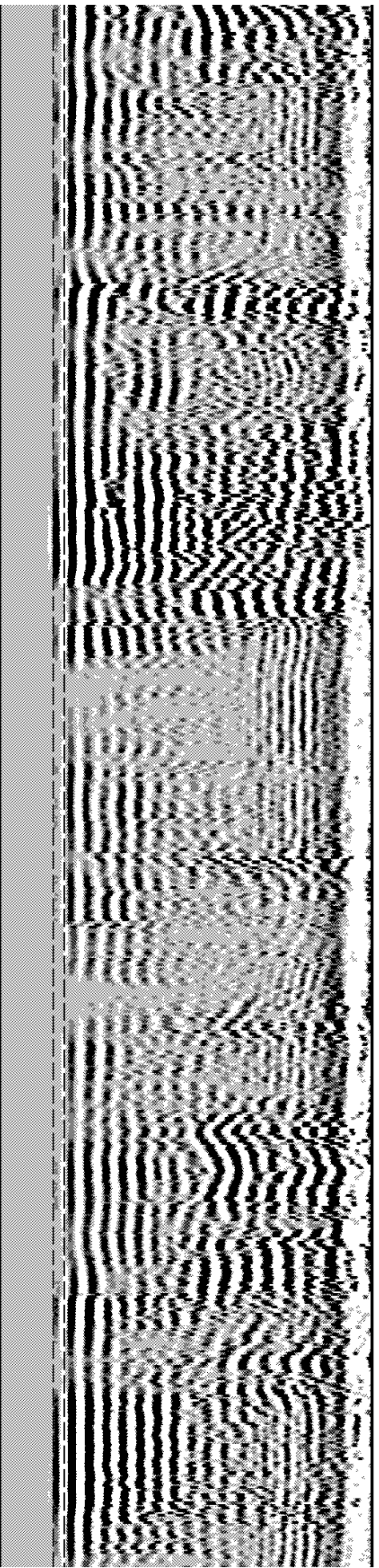
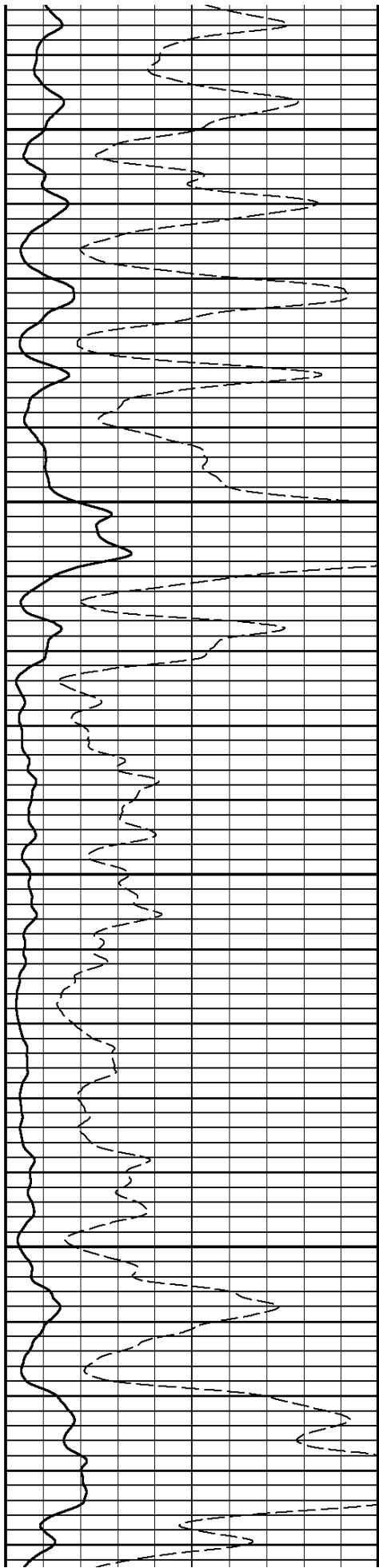
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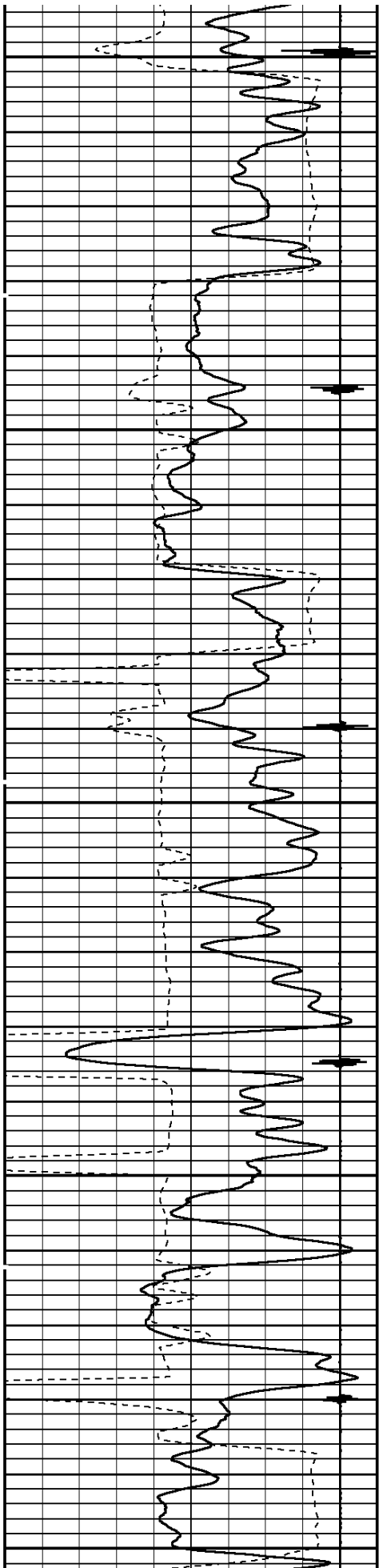


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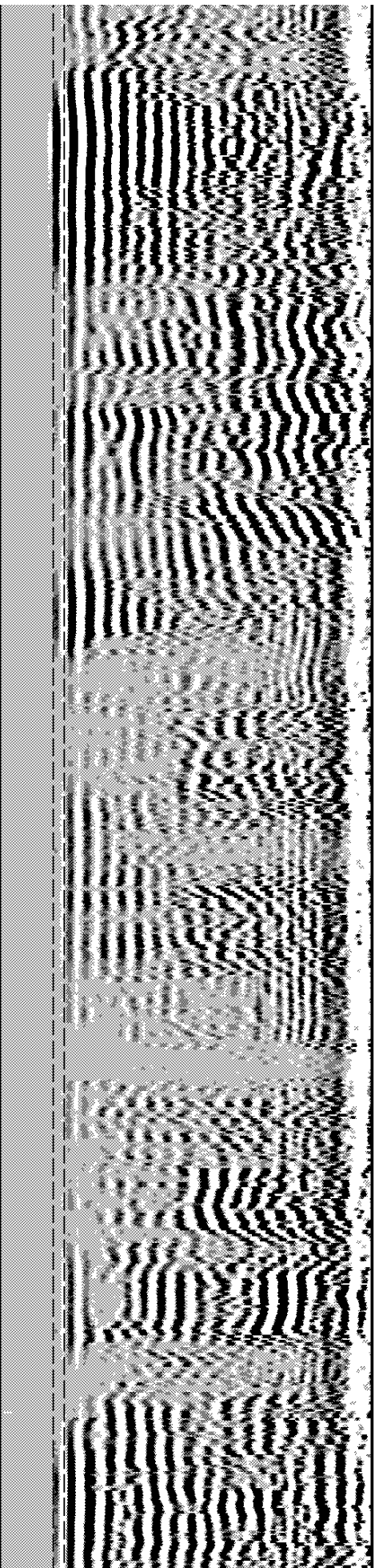
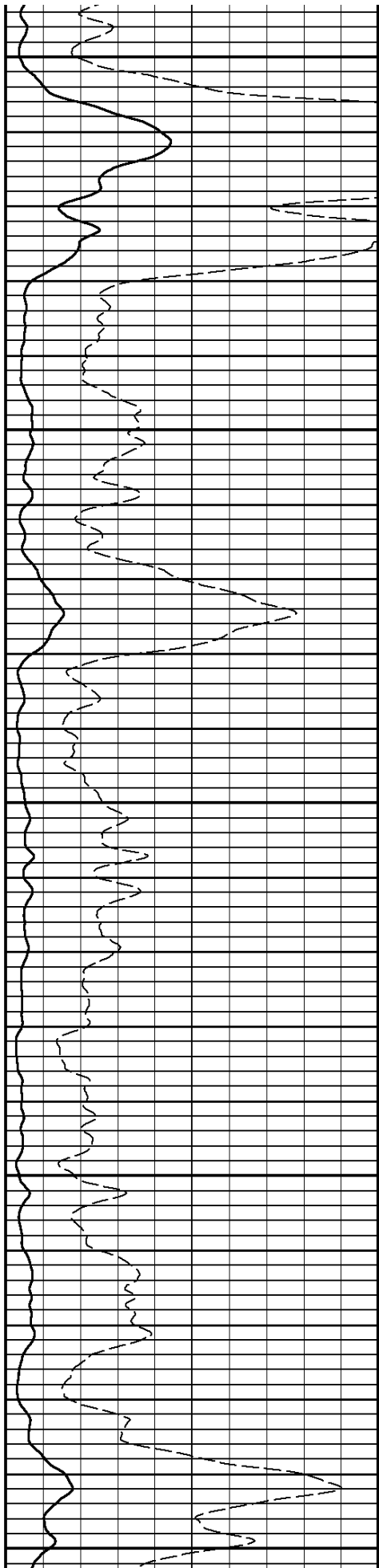


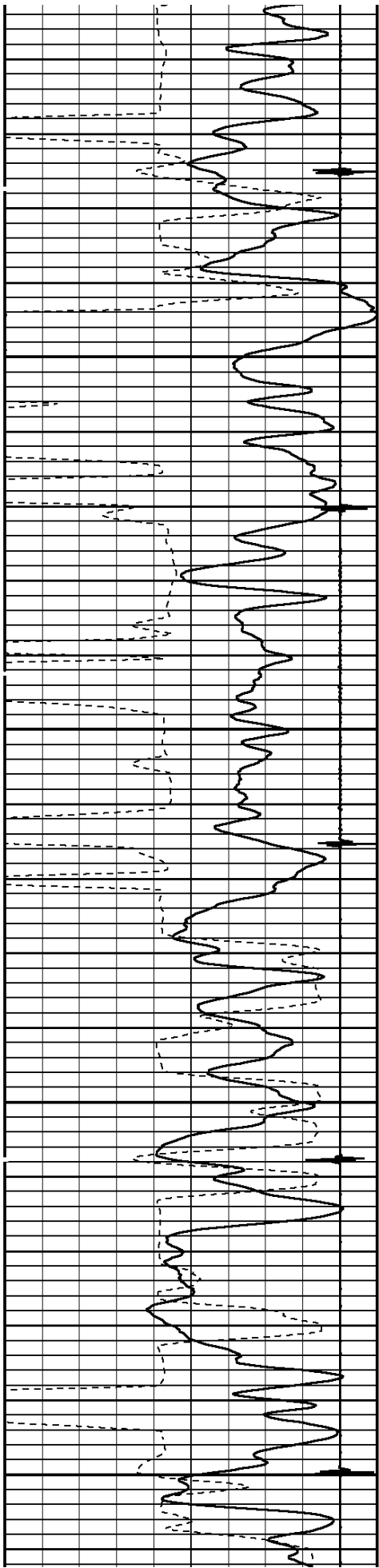




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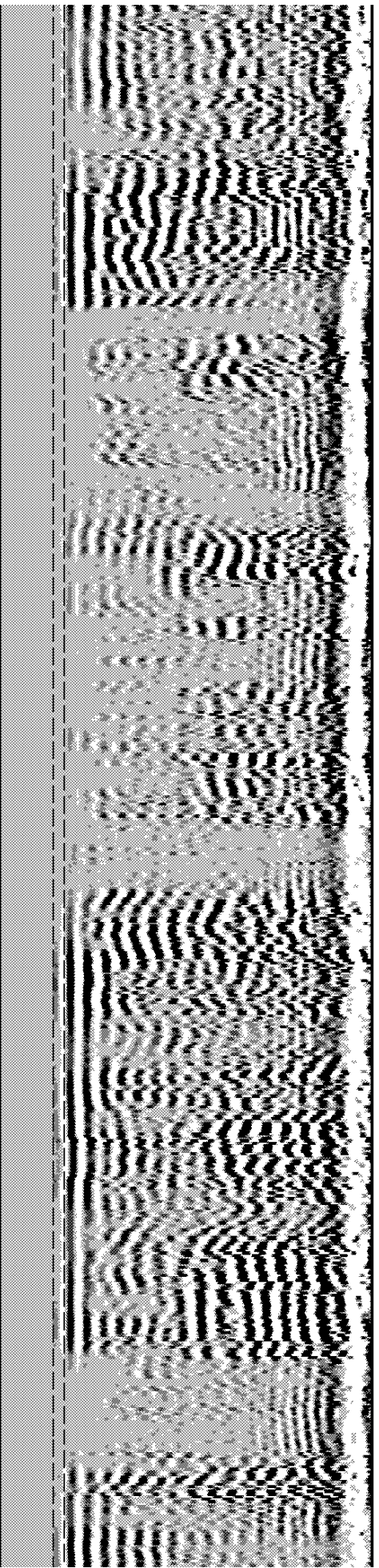
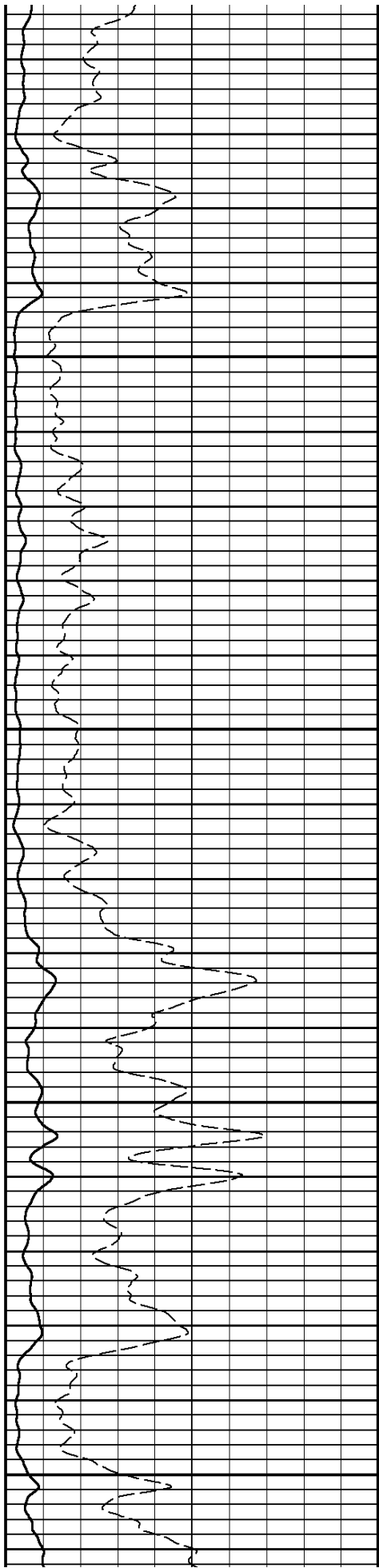
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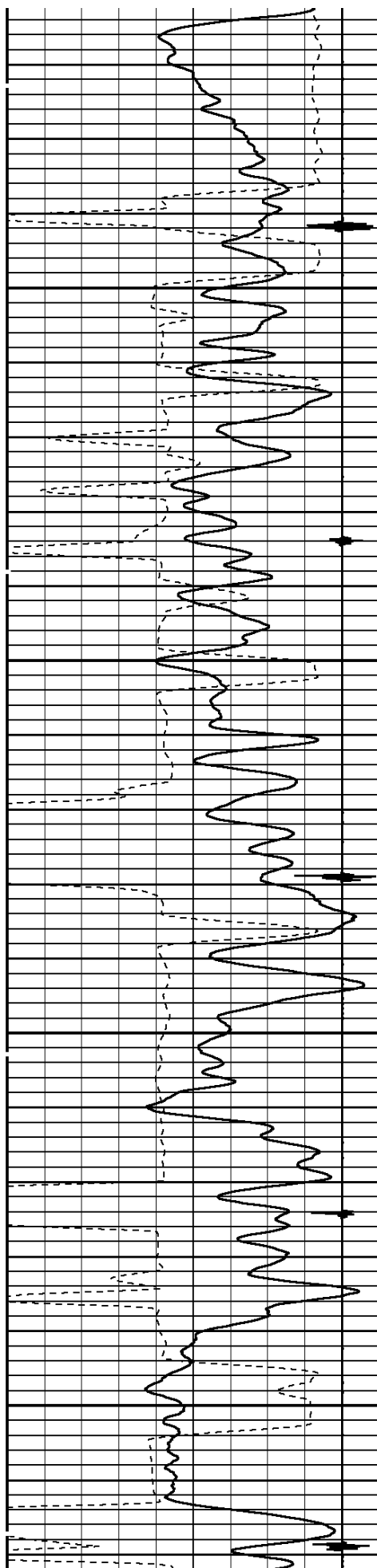




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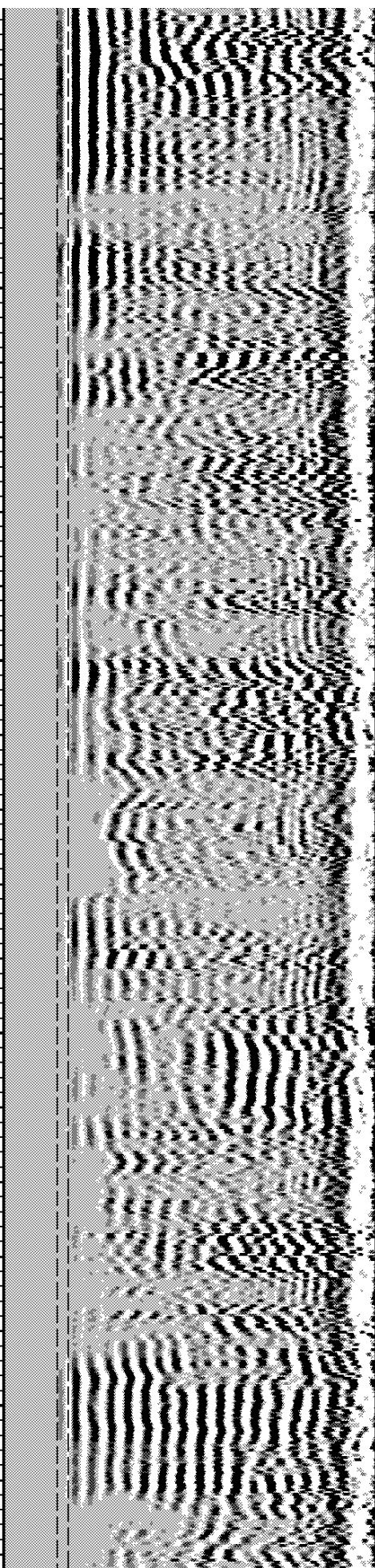
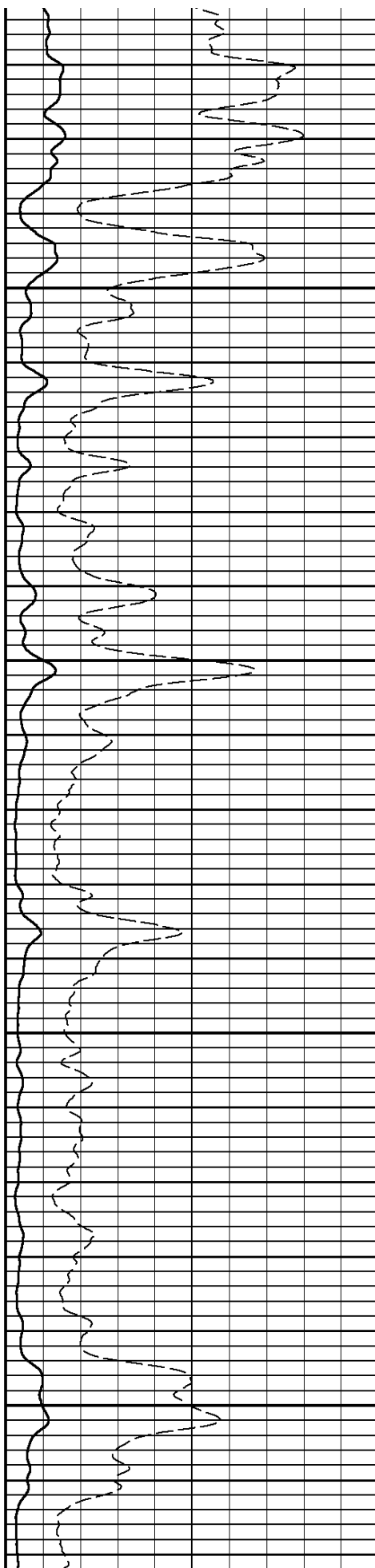
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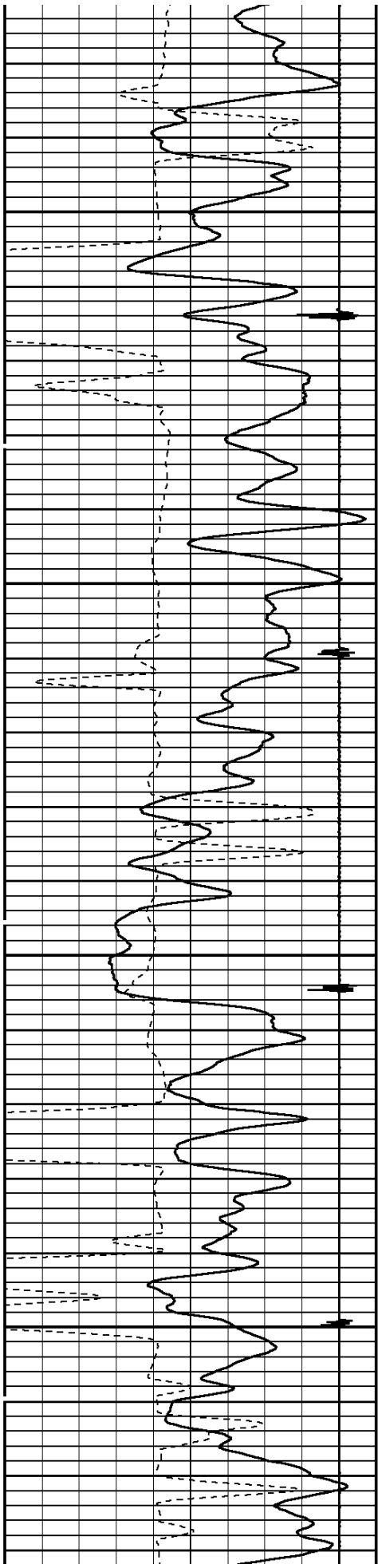




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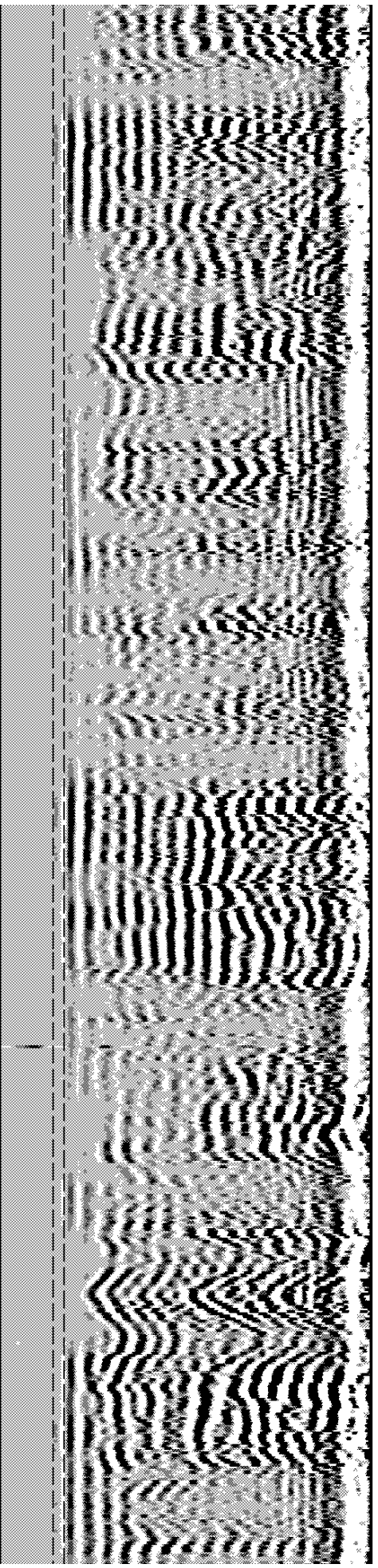
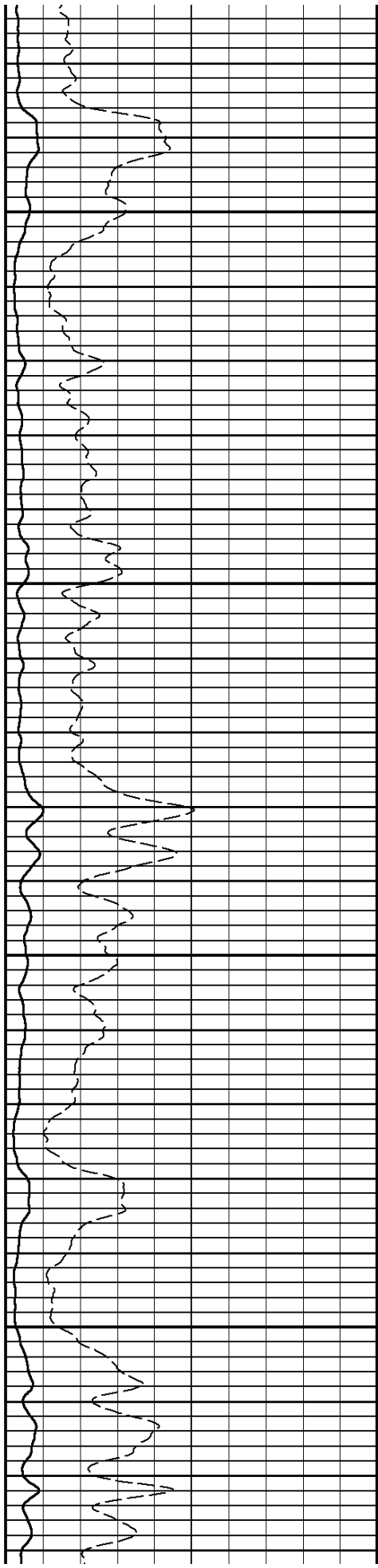
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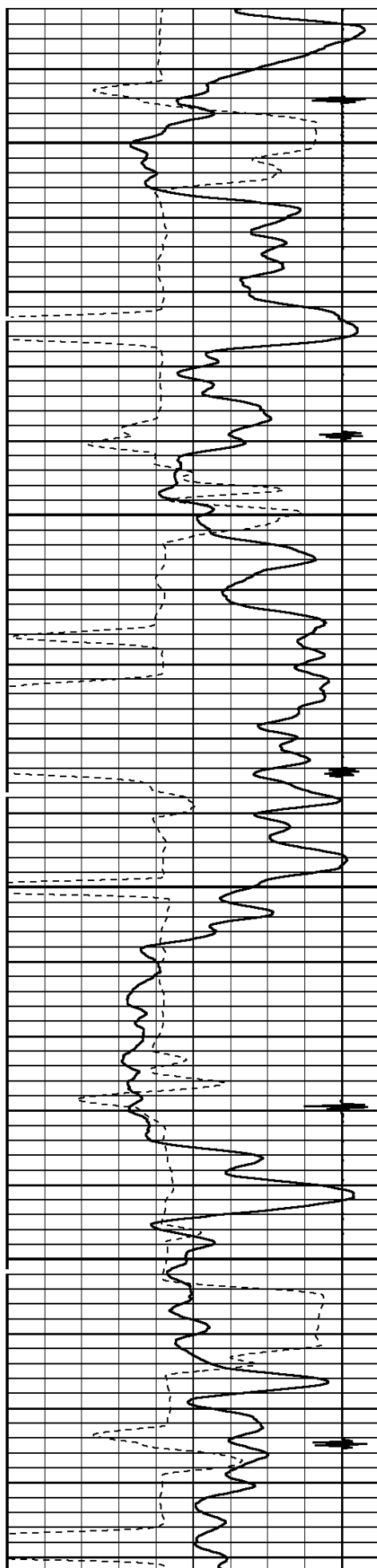




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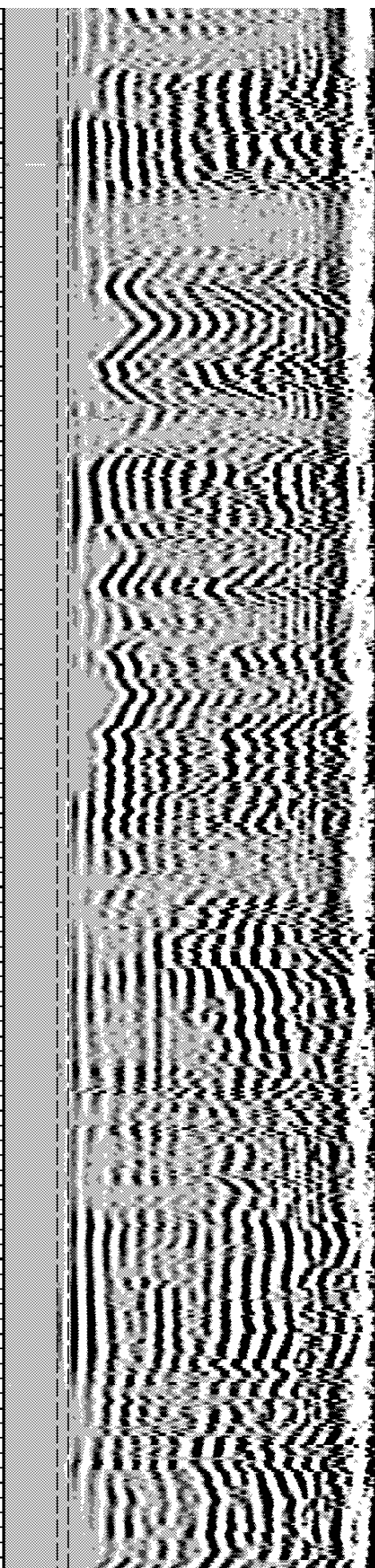
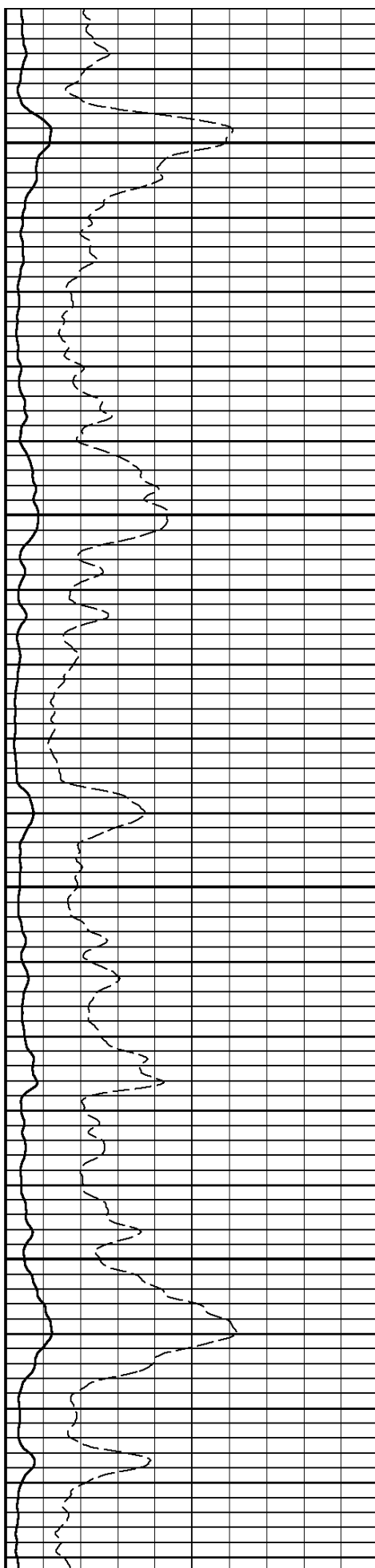
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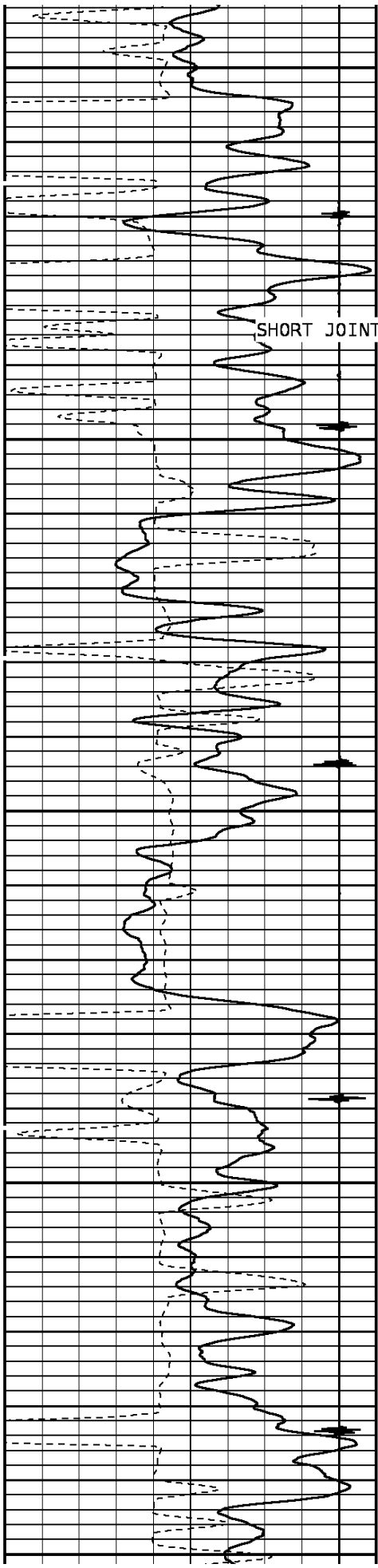




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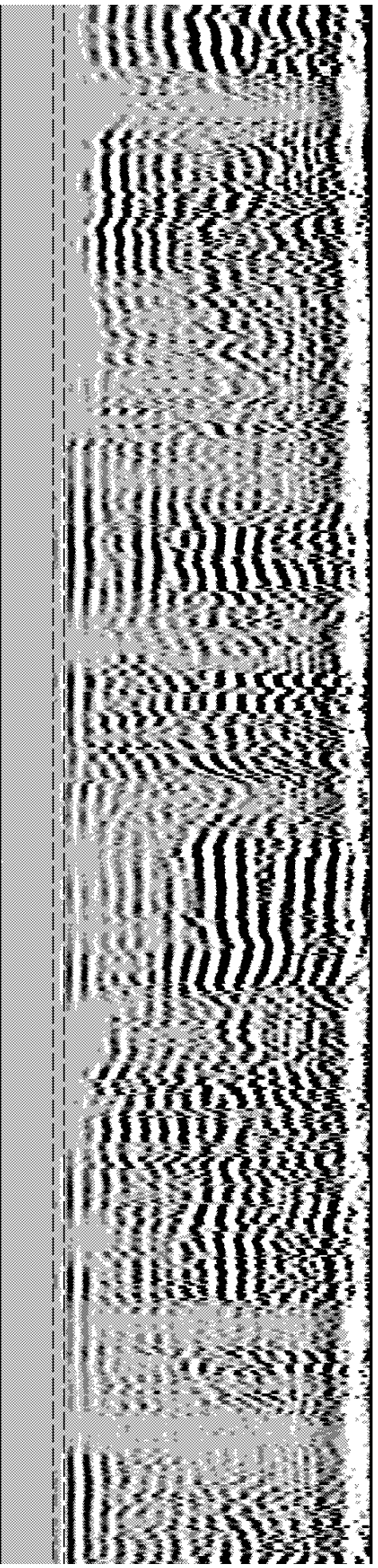
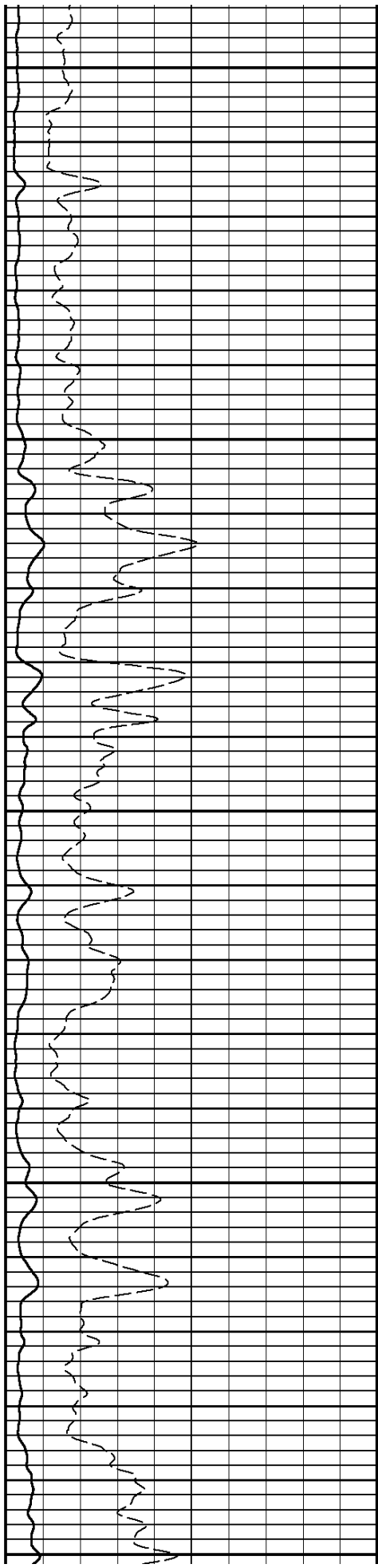


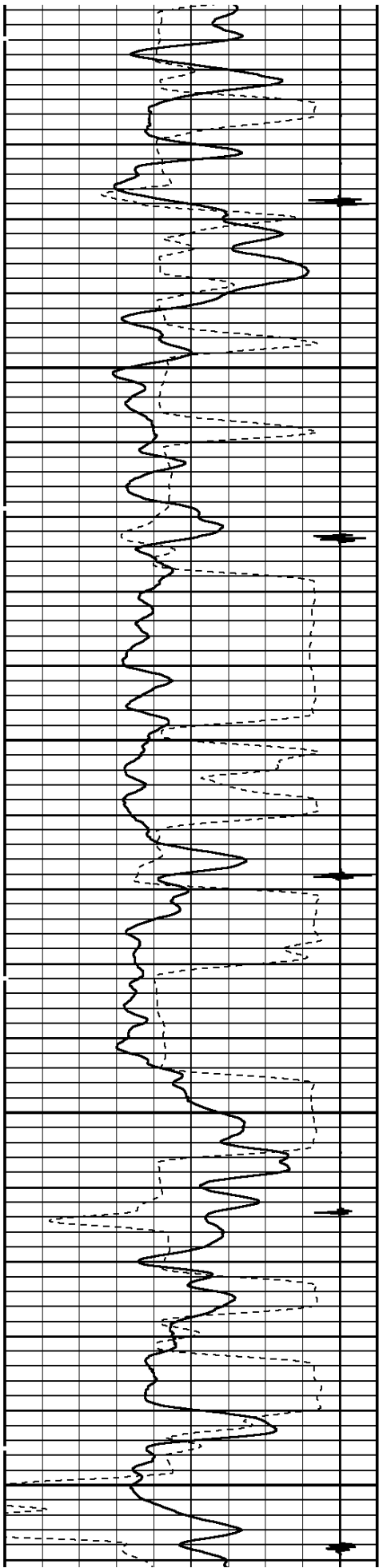


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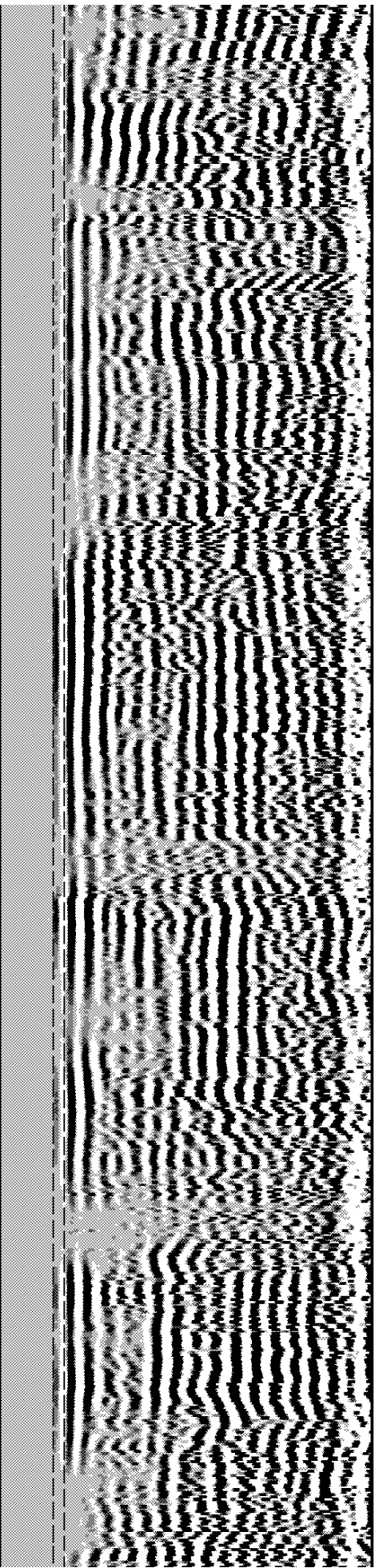
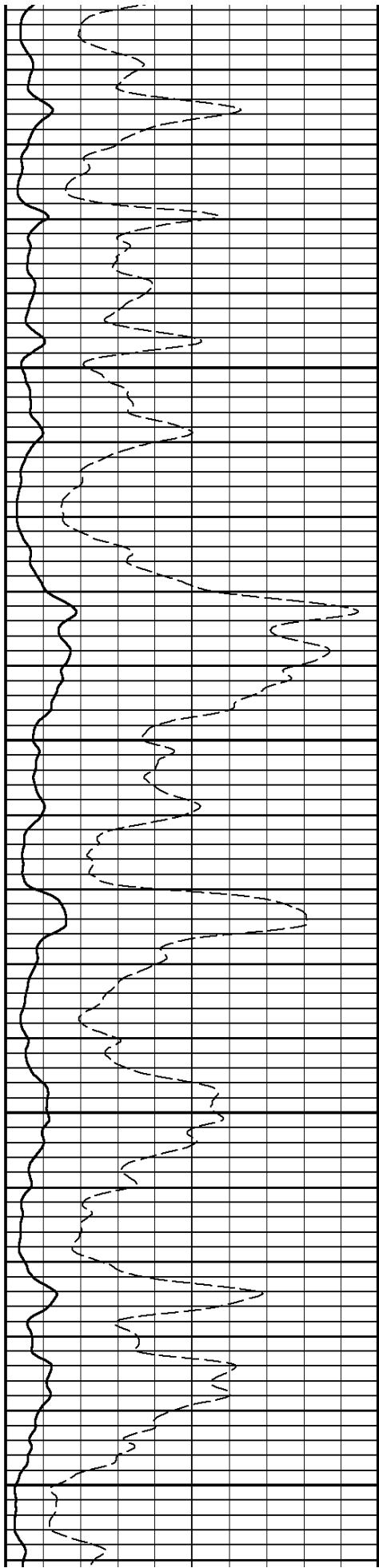
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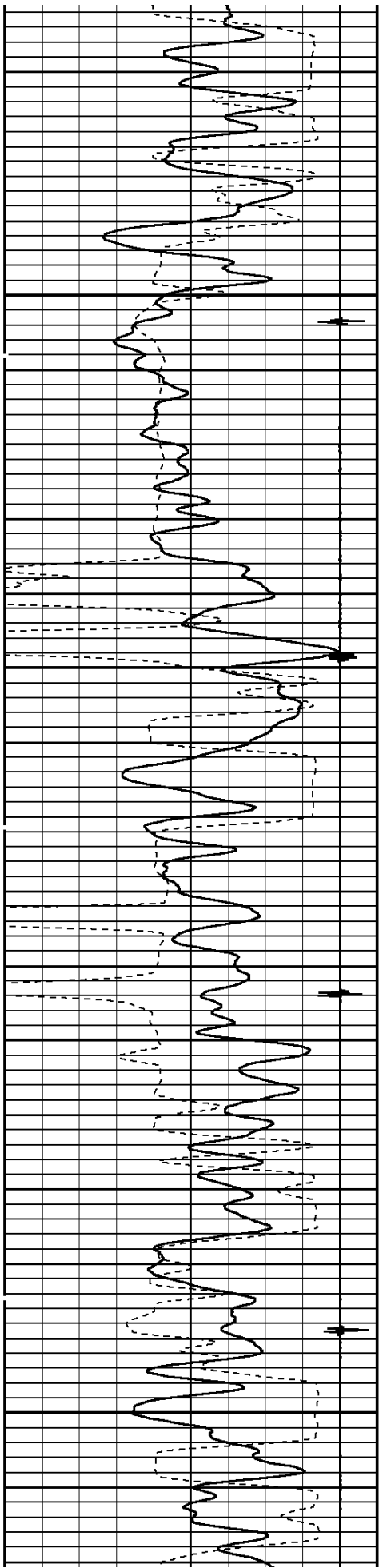


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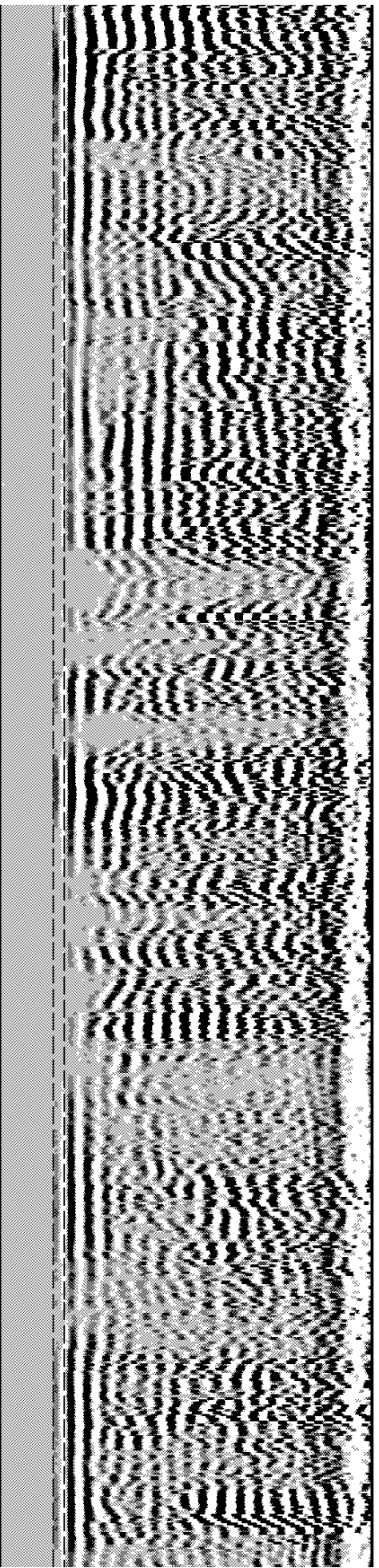
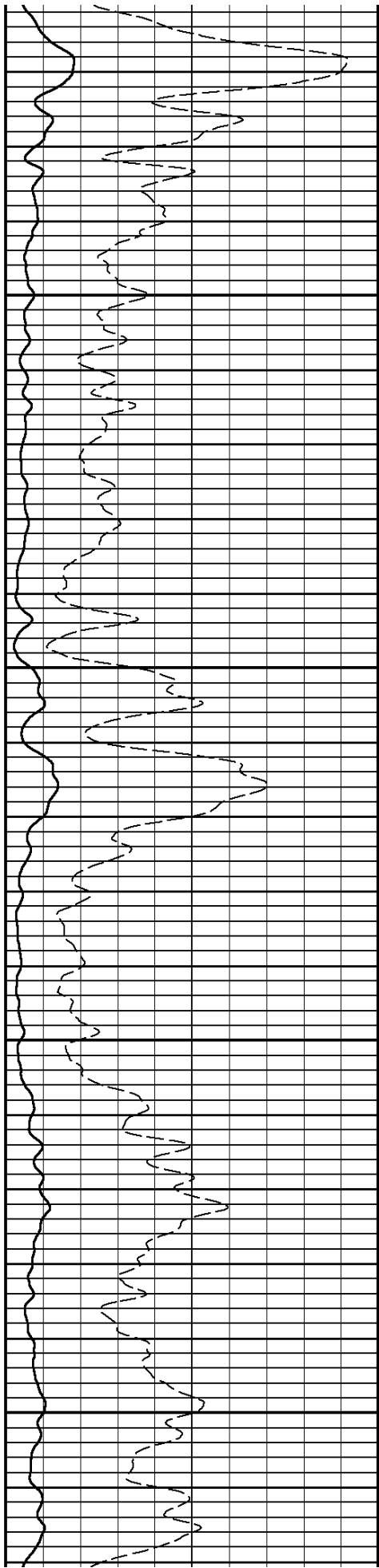




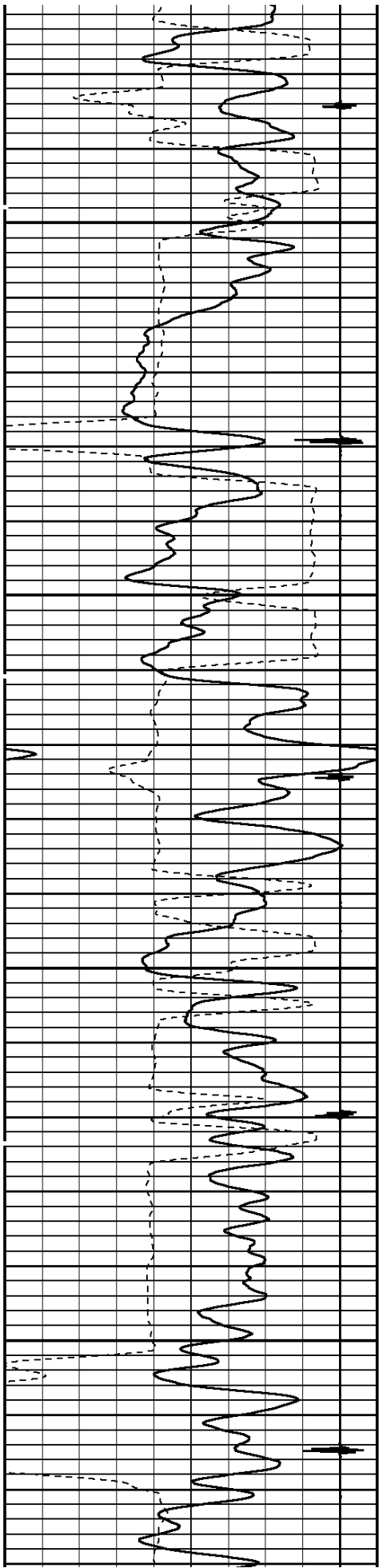


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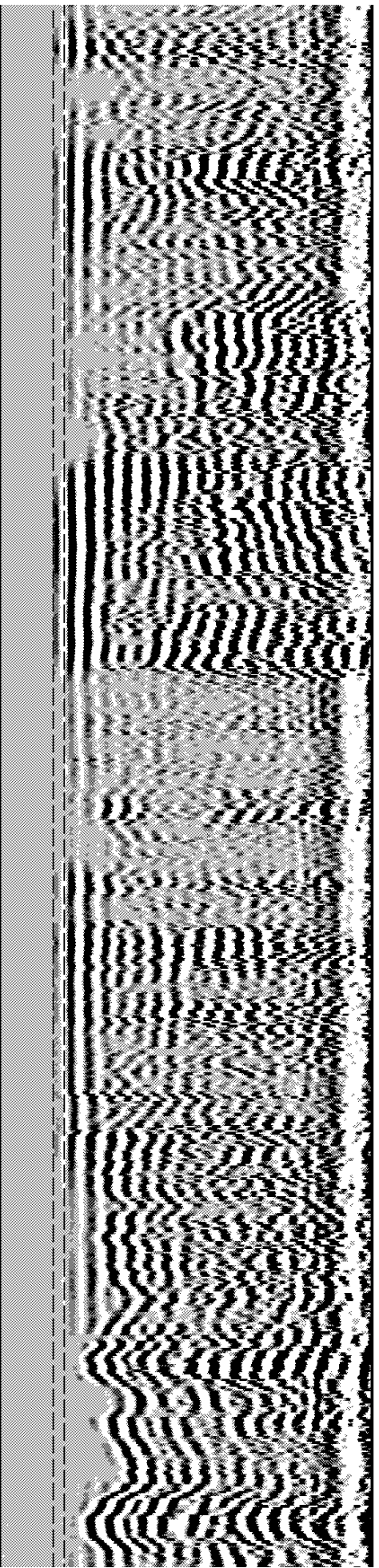
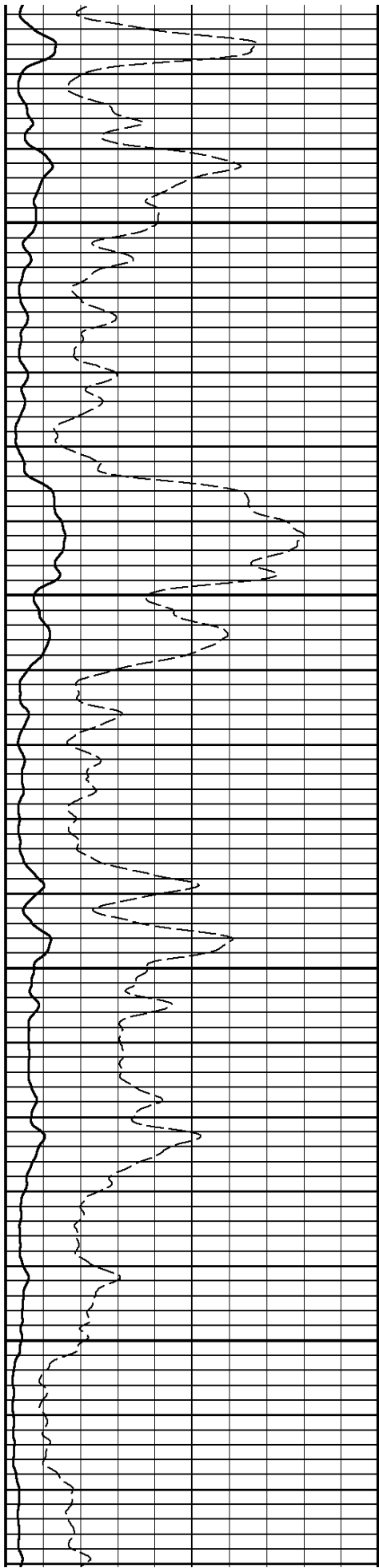


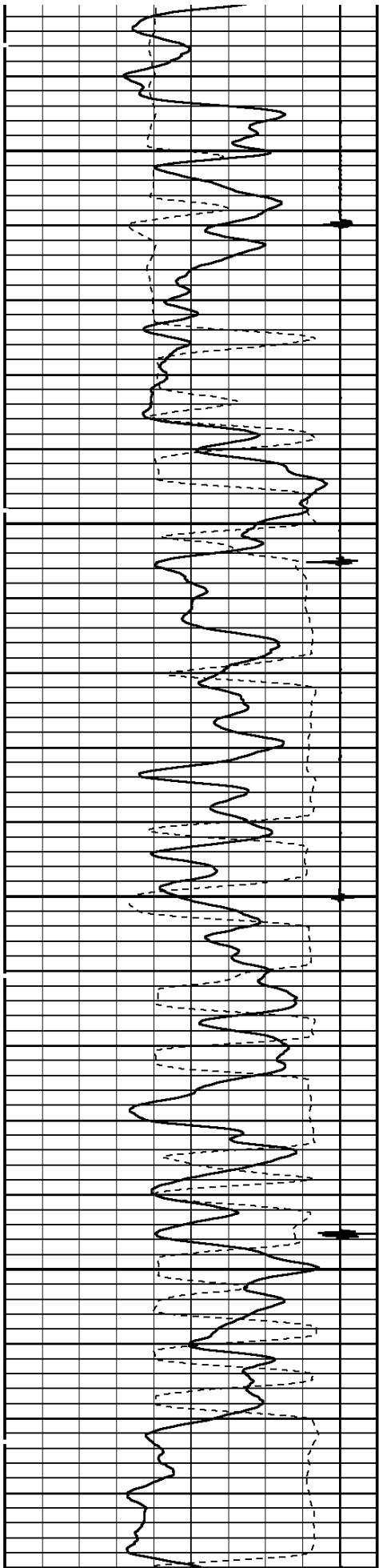




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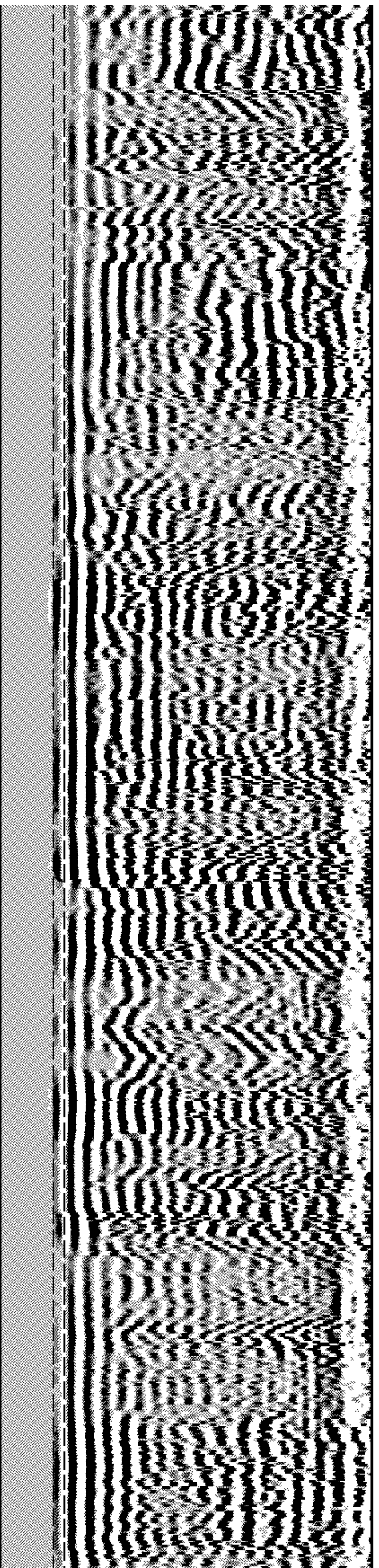
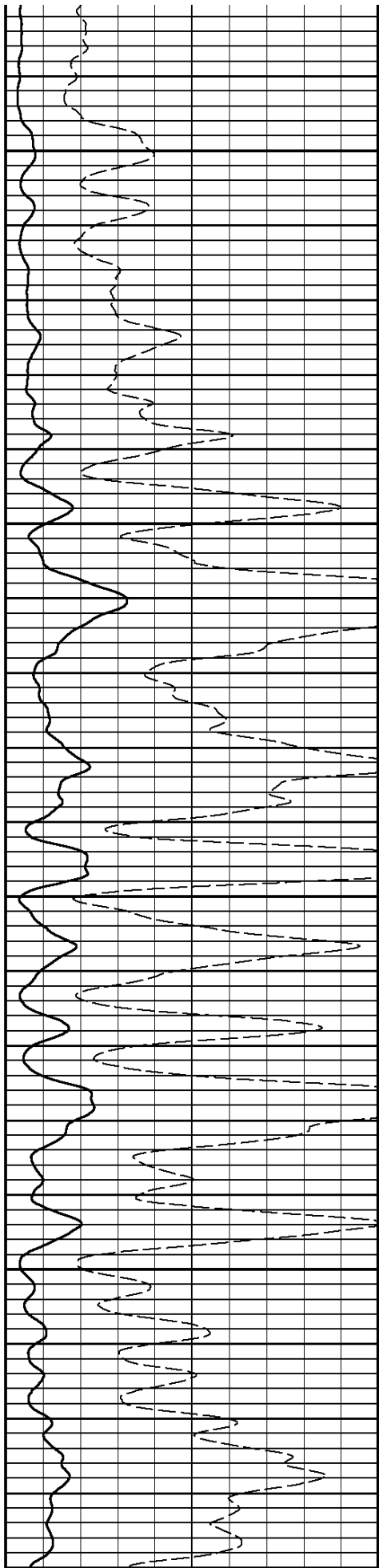
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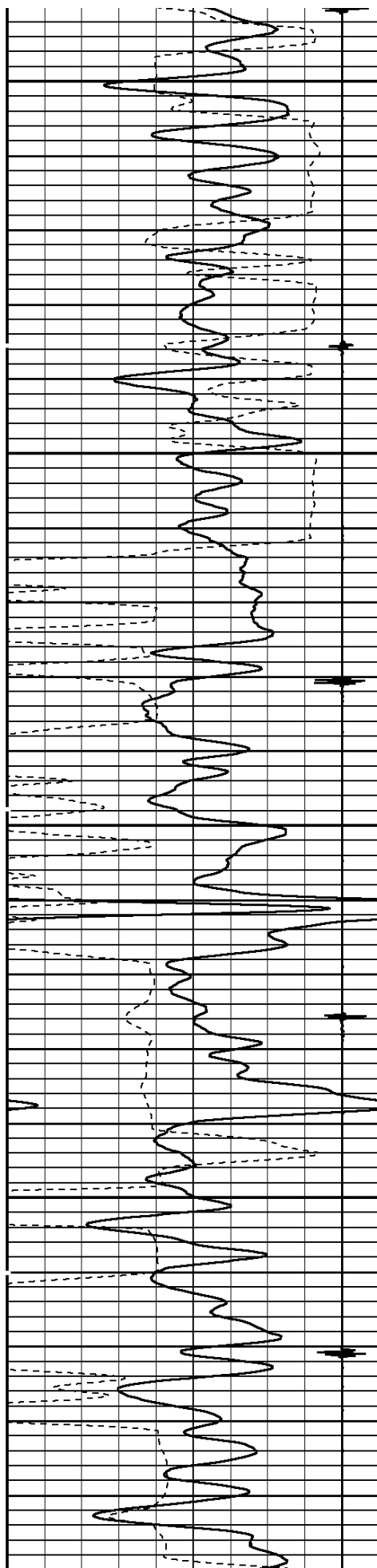




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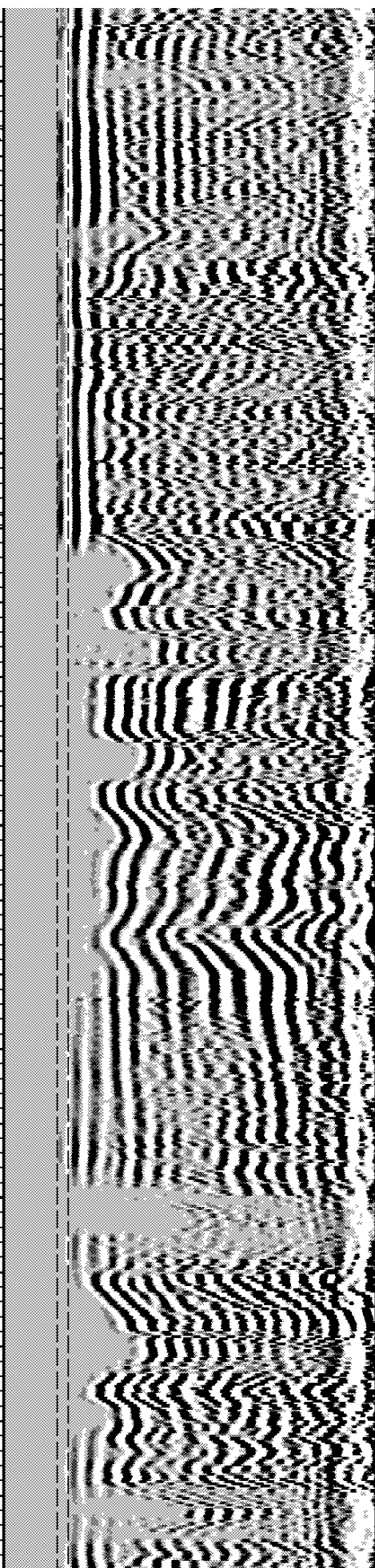
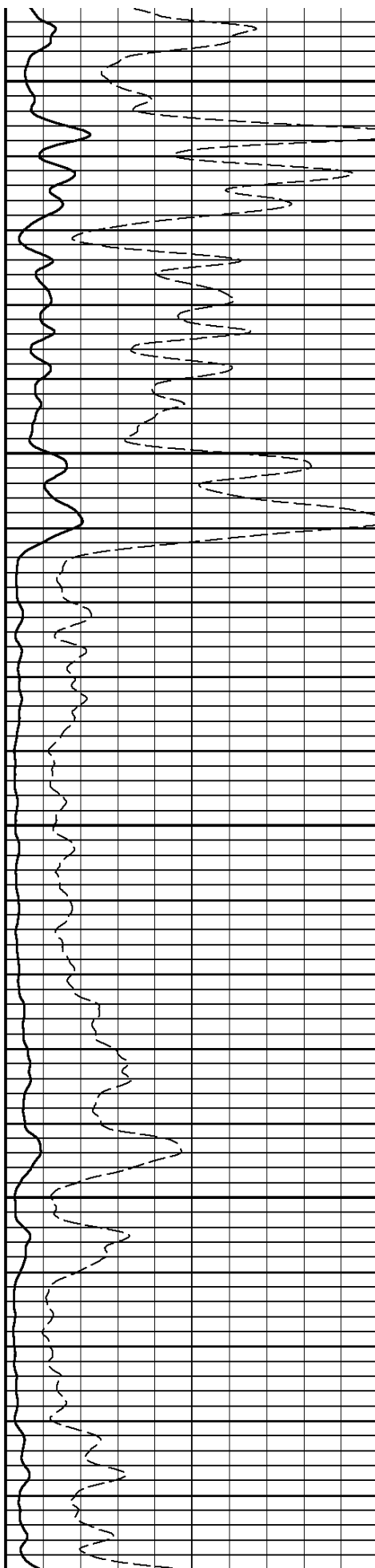
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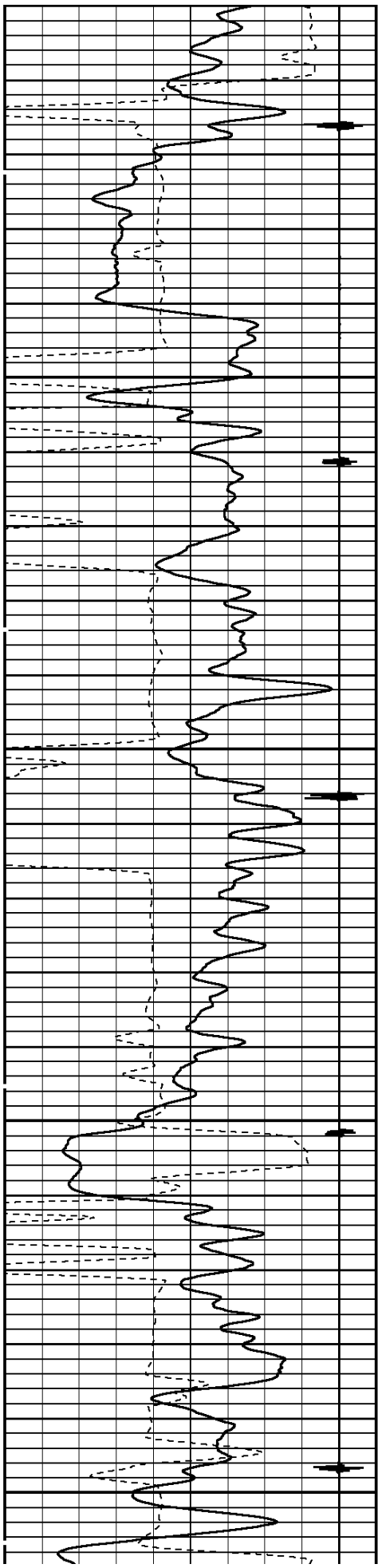




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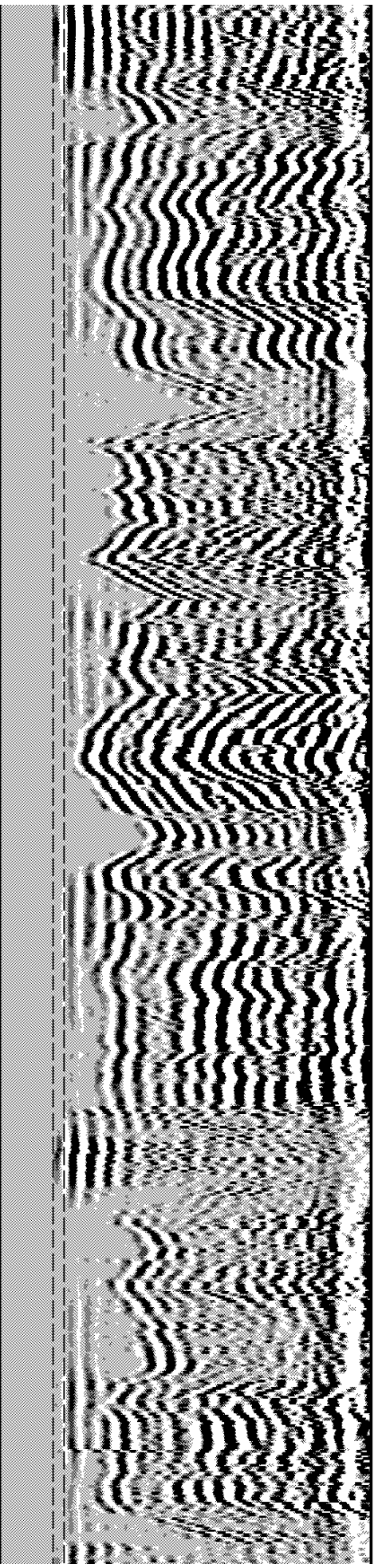
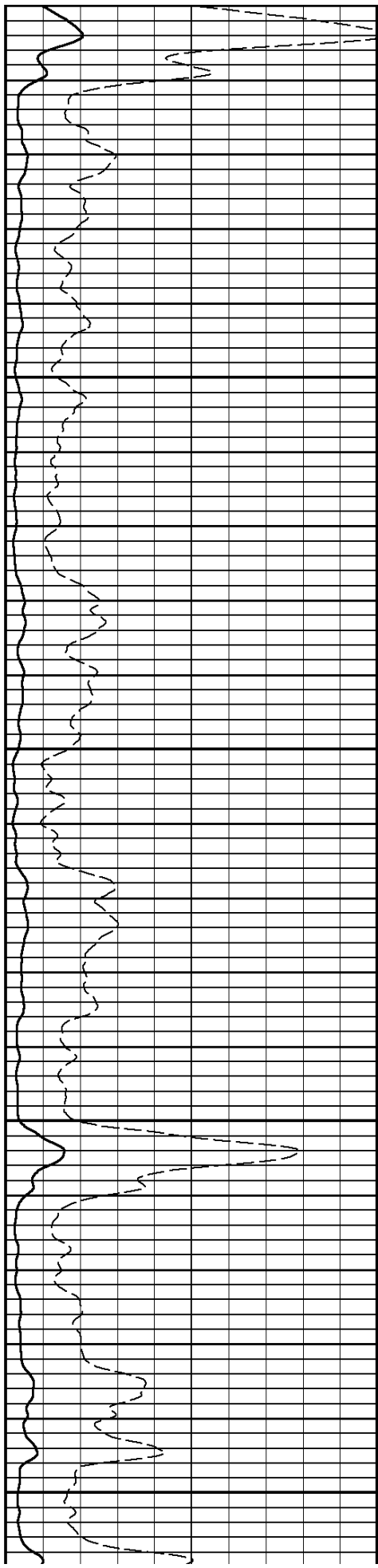
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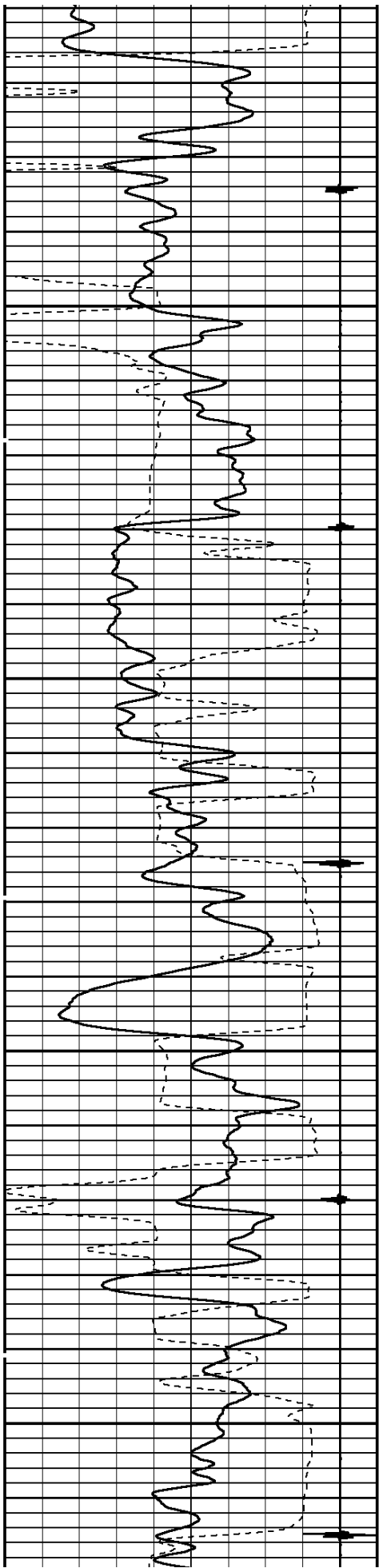




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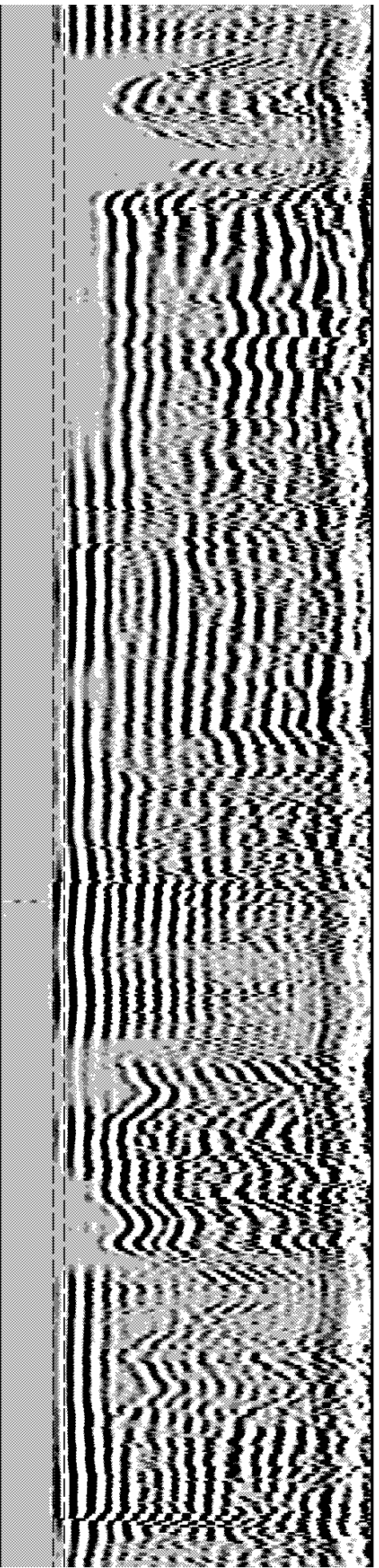
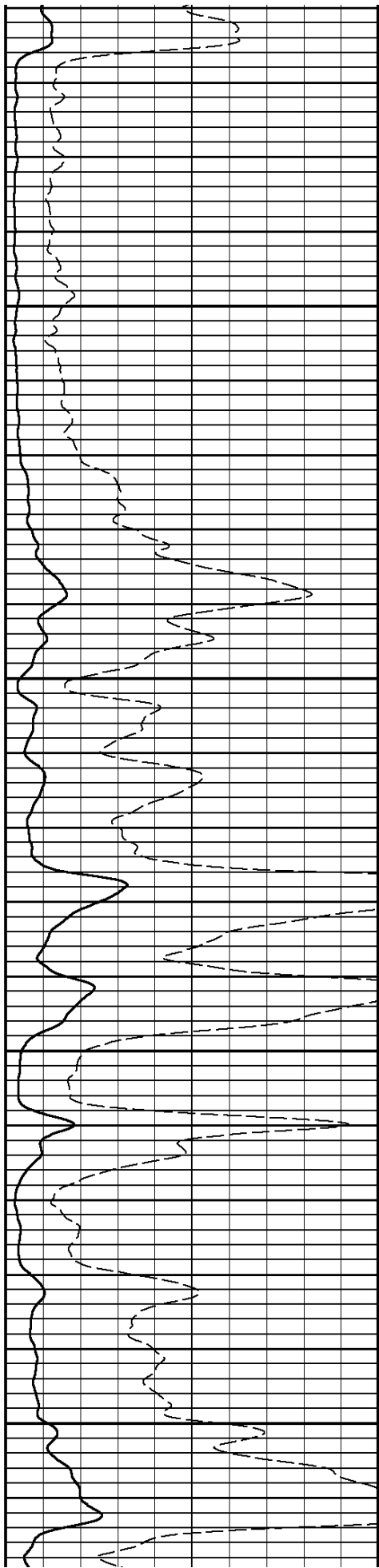
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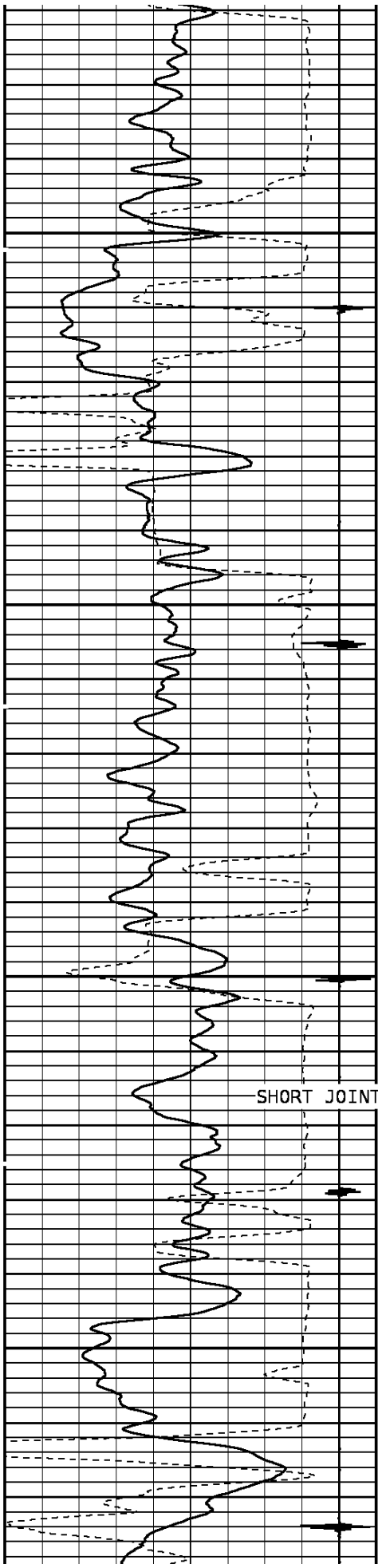




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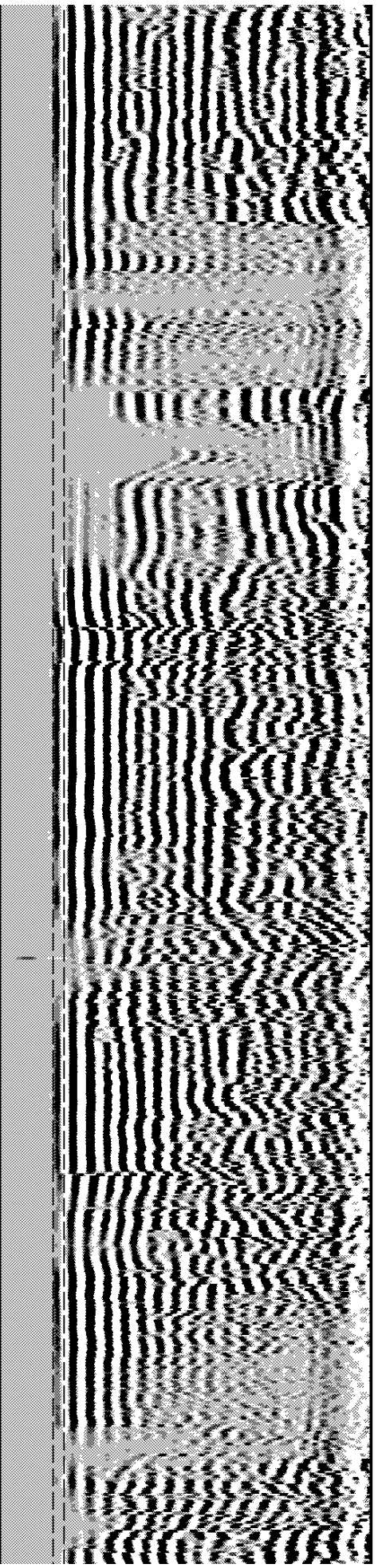
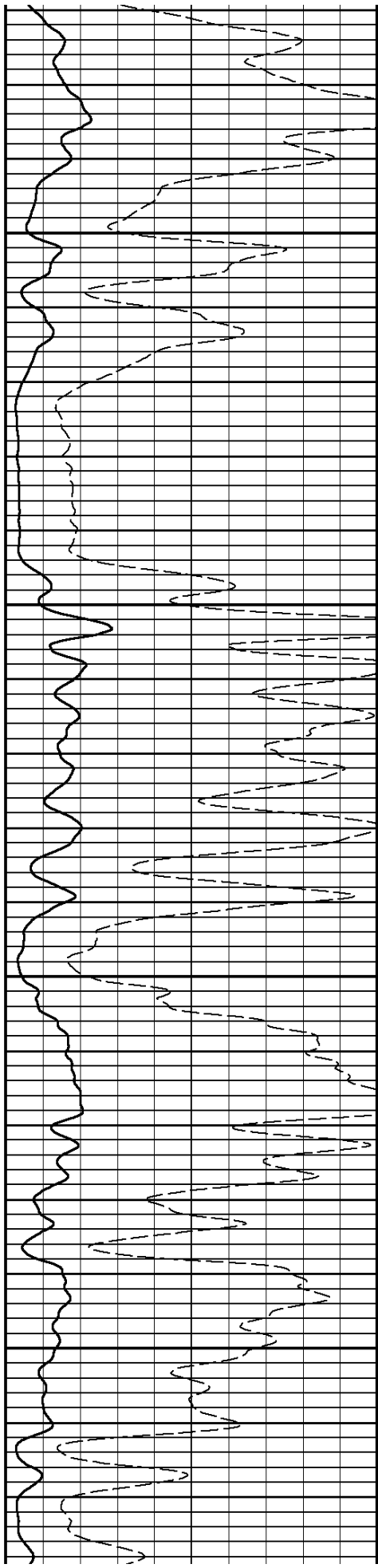
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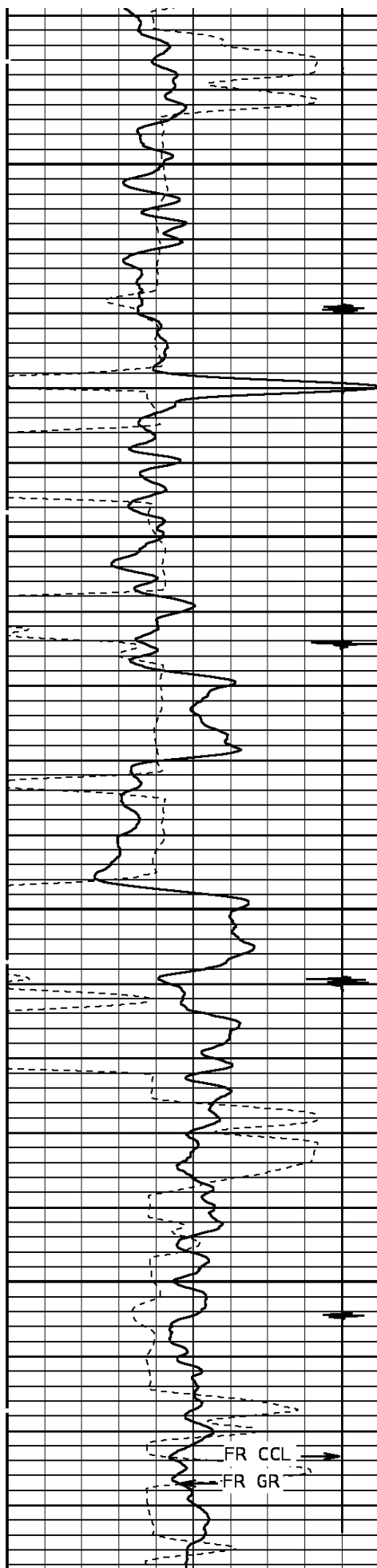




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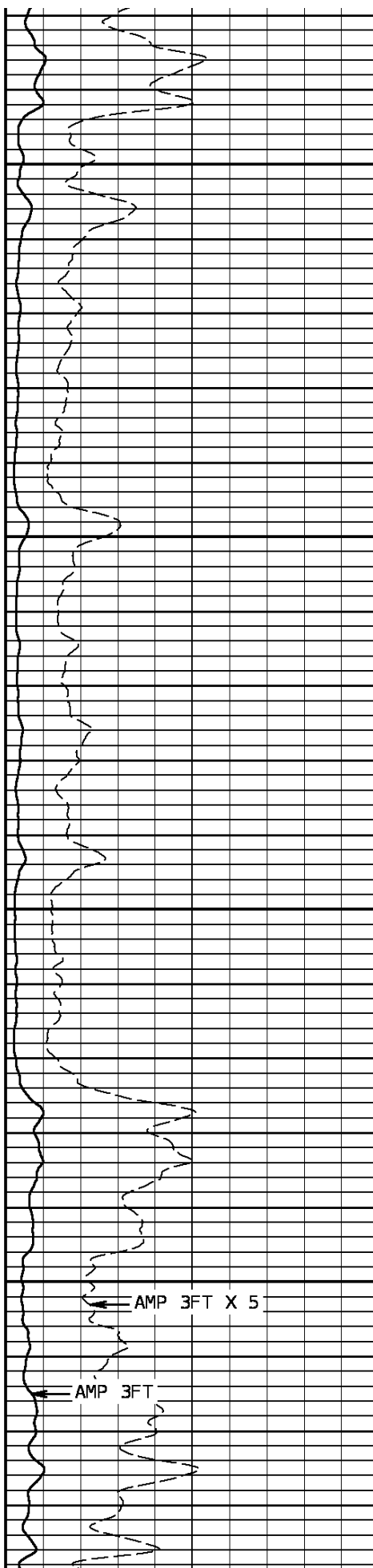
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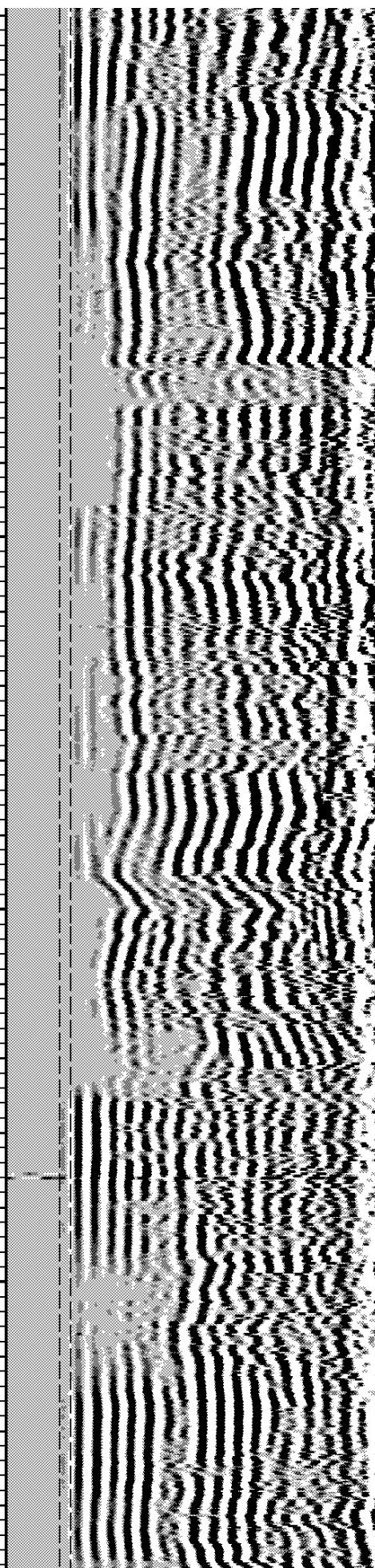
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7700



AMP 3FT X 5

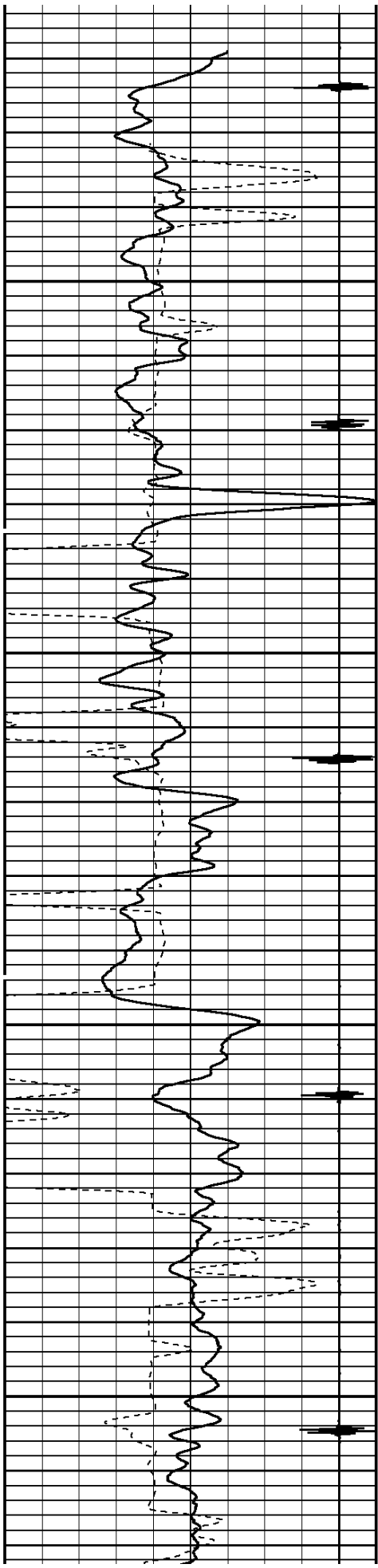
AMP 3FT



TT 3FT			PBD 7800			FR VDL			FREE PIPE GATE		
TENSION			TENSION			TENSION			FREE PIPE GATE		
TRAVEL TIME 3FT			Tension			AMPLITUDE 3FT			VARIABLE DENSITY 5FT		
310 Microseconds 210			0 2400			0 Millivolts 100			200 Microseconds 1200		
Gamma Ray						AMPLITUDE 3FT X5			FREE PIPE GATE		
0 API 150						0 Millivolts 20			200 Microseconds 1200		
Collar Locator									FREE PIPE GATE		
-4000 Millivolts 440									200 Microseconds 1200		
START DEPTH: 7807.1 DIRECTION: UP DATE: 01/14/2009 TIME: 13:00 MODE: ORIGINAL											
156895 CBLMAIN											
MAIN PASS											
DEPTH SCALE: 5":100' VERSION: 80214133R"											

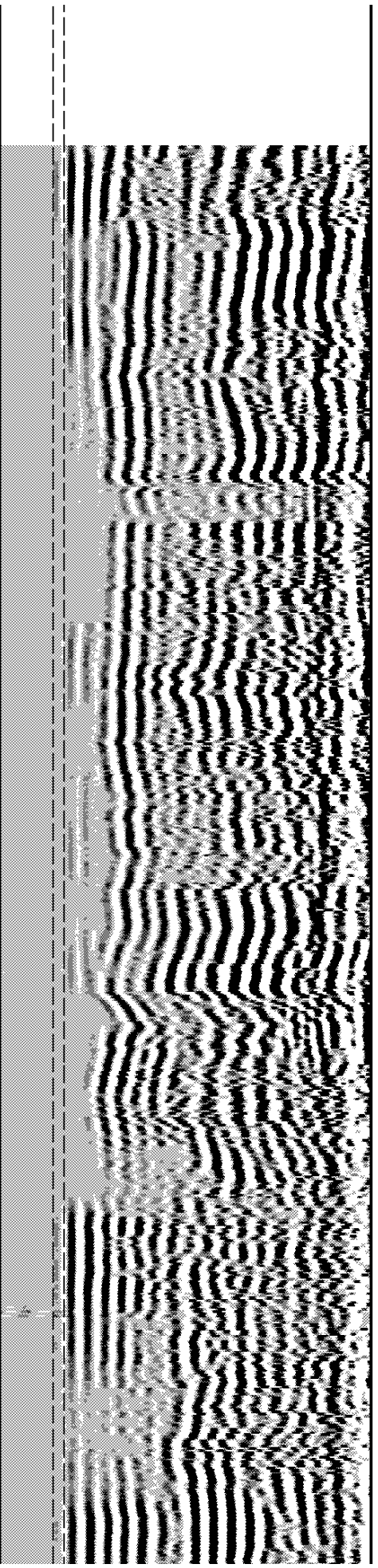
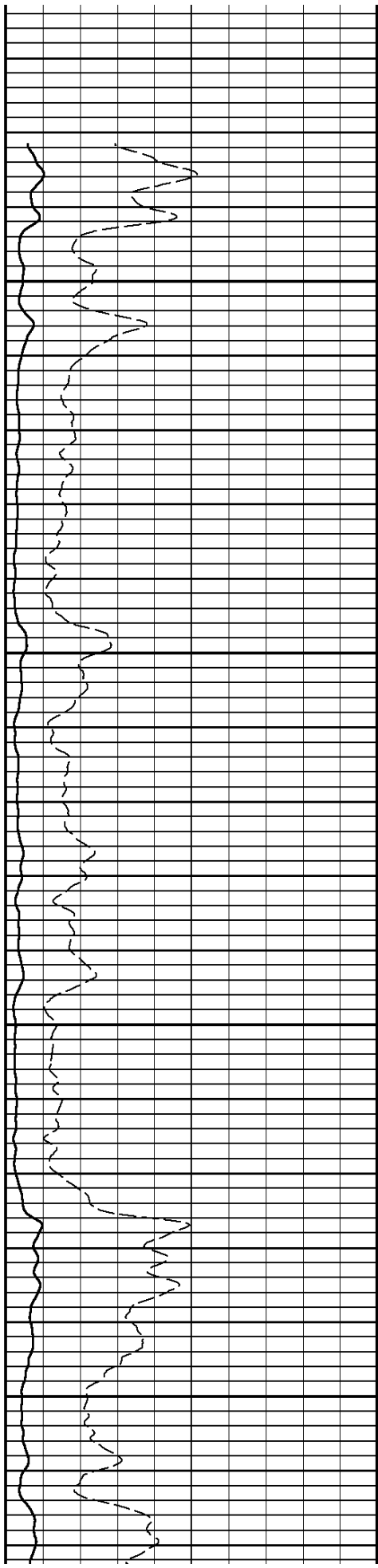
REMARKS											
LOGGED WITH 0 PSI @ SURFACE											
DEPTH SCALE: 5":100' VERSION: 80214133R"											
REPEAT PASS											
156895 CBLREPEAT											
FINISH DEPTH: 7561.2 Feet DIRECTION: UP DATE: 01/14/2009 TIME: 12:48 MODE: ORIGINAL											
Collar Locator									FREE PIPE GATE		
-4000 Millivolts 440									200 Microseconds 1200		
Gamma Ray									FREE PIPE GATE		
0 API 150						0 Millivolts 20			200 Microseconds 1200		
TRAVEL TIME 3FT			Tension			AMPLITUDE 3FT			VARIABLE DENSITY 5FT		
310 Microseconds 210			0 2400			0 Millivolts 100			200 Microseconds 1200		

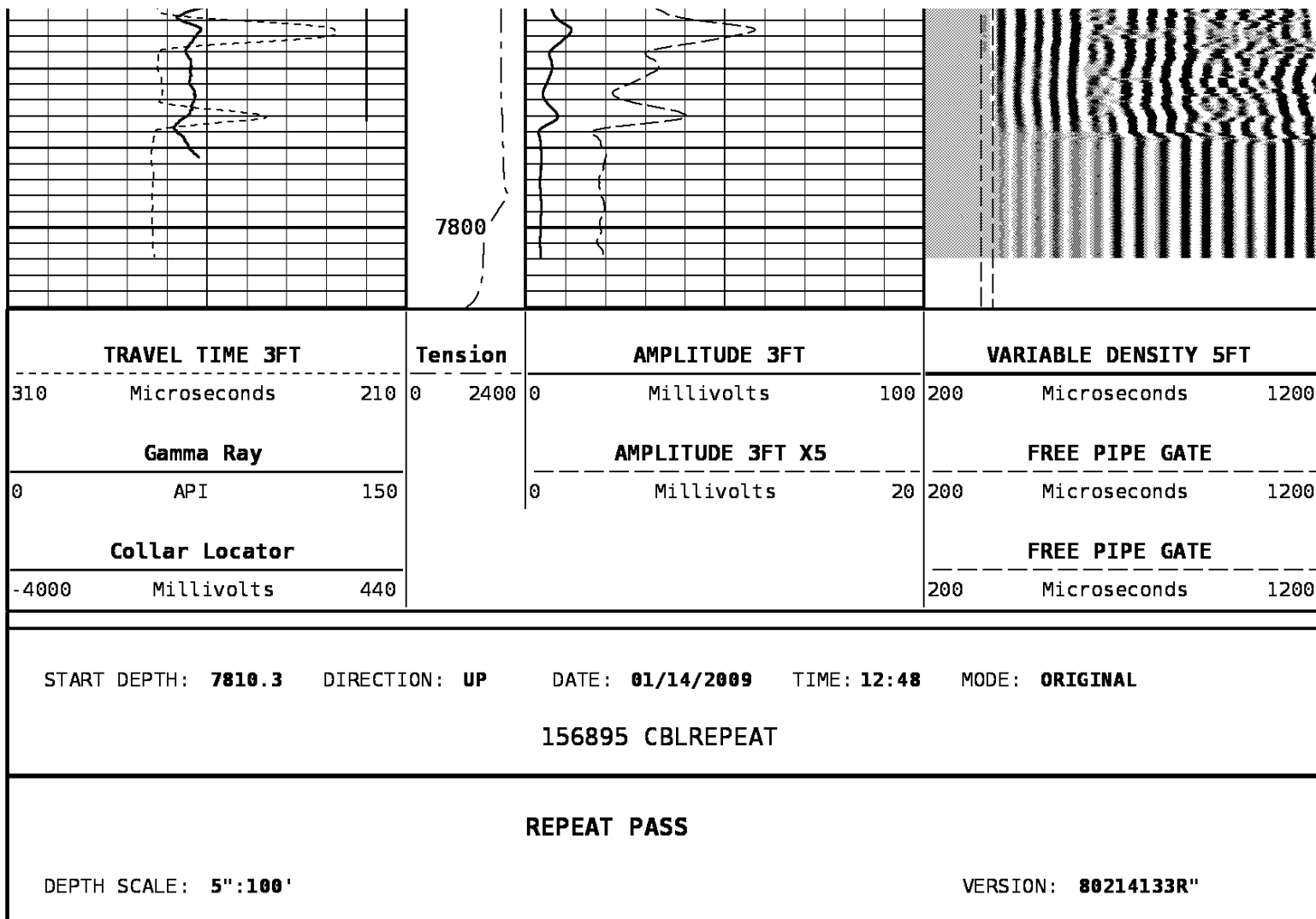




7600

7700





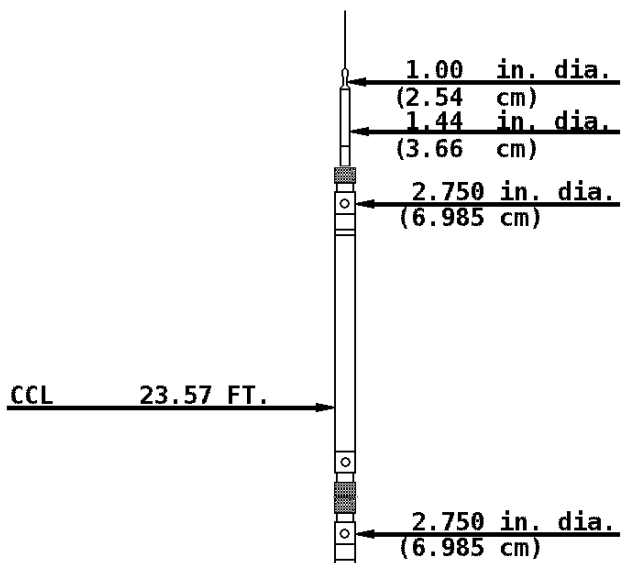
### 1 7/16 Adapter Head

Weight 2.2 LB.  
 Length 12 IN.  
 Max. Diameter 1.44 IN.

Total Stack Weight 208.0 LBS. in air  
 Total Stack Length 25.34 FT.

### Collar Locator

Weight 39.8 LBS.  
 Length 3.40 FT.  
 Max. Diameter 2.75 IN.



### Slim Hole Gamma Ray

Weight 39.8 LBS.  
Length 4.71 FT  
Max. Diameter 2.750 IN.

### Slim Hole Centralizer

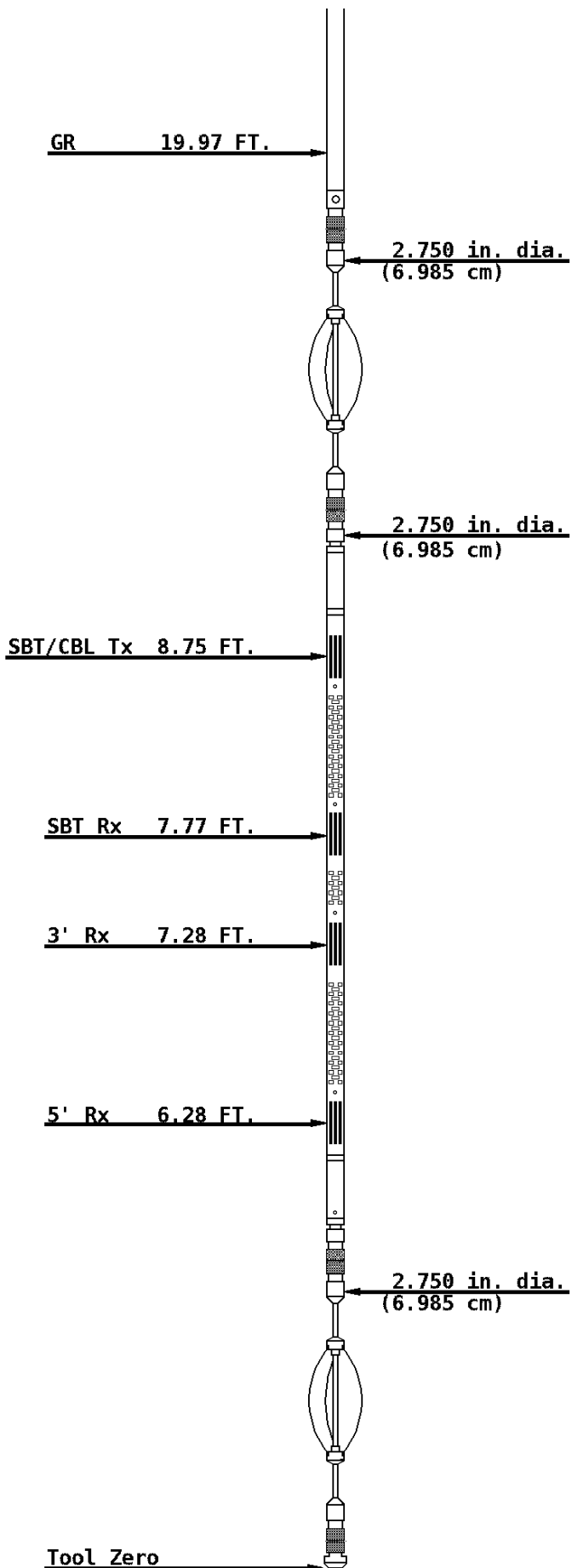
Weight 22 LBS.  
Length 3.08 FT.  
Max. Diameter 2.750 IN.

### Sector Bond

Weight 89.2 LBS>  
Length 10.32 FT.  
Max. Diameter 2.750 IN.

### Slim Hole Centralizer

Weight 15.0 LBS.  
Length 2.82 FT.  
Max. Diameter 2.750 IN.



**COMPANY**   **BILL BARRETT CORPORATION**

**WELL**        **JCJ 21C-21-692**

**FIELD**      **MAMM CREEK**

**COUNTY**    **GARFIELD**                      **STATE**   **COLORADO**



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