



**Weatherford**

SECTOR CEMENT  
BOND LOG

COMPANY URSA OPERATING  
COMPANY  
WELL FREI A-10

FIELD GRAVEL TREND  
CNTY GARFIELD STATE CO

COMPANY URSA RESOURCES OPERATING COMPANY

WELL FREI A-10

FIELD GRAVEL TREND

COUNTY GARFIELD STATE COLORADO

LOCATION:

SHL 594' FSL & 911' FWL

API# 05-045-19961

SEC. 07 TWP. 6S RGE. 91W

OTHER SERVICES:

JB-GR

PND

PERM. DATUM GROUND LEVEL

LOG MEASURED FROM K.B. 15 FT. ABOVE PERMANENT DATUM

DRILLING MEASURED FROM KELLY BUSHING

ELEV. 5596.5'

ELEV.: K.B. 5611.9

D.F. 5610.9

DATE 21-APR-2014

RUN NO. ONE

DEPTH DRILLER 6954'

DEPTH LOGGER 6894'

BITM. LOG INTERVAL 6888'

TOP LOG INTERVAL 1017'

OPEN HOLE SIZE 7.875"

TYPE FLUID WATER

DENS. VISC. N/A

MAX. REC. TEMP. F 190

EST. CEMENT TOP SEE LOG

TIME WELL READY ROA

TIME LOGGER ON BITM. SEE LOG

EQUIP. NO. 14247

LOCATION FARMINGTON

RECORDED BY C. CALIENDO

WITNESSED BY L. GARDNER

BOREHOLE RECORD

RUN NO. BIT FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

TUBING RECORD

RUN NO. BIT FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

SIZE WGT. FROM TO

CASING RECORD SIZE WT/FT GRADE TYPE JOINT TOP BOTTOM

SURFACE STRING 8-5/8" 32 SURF 1017'

PROD. STRING 4.5" 13.5 SURF 7079'

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.

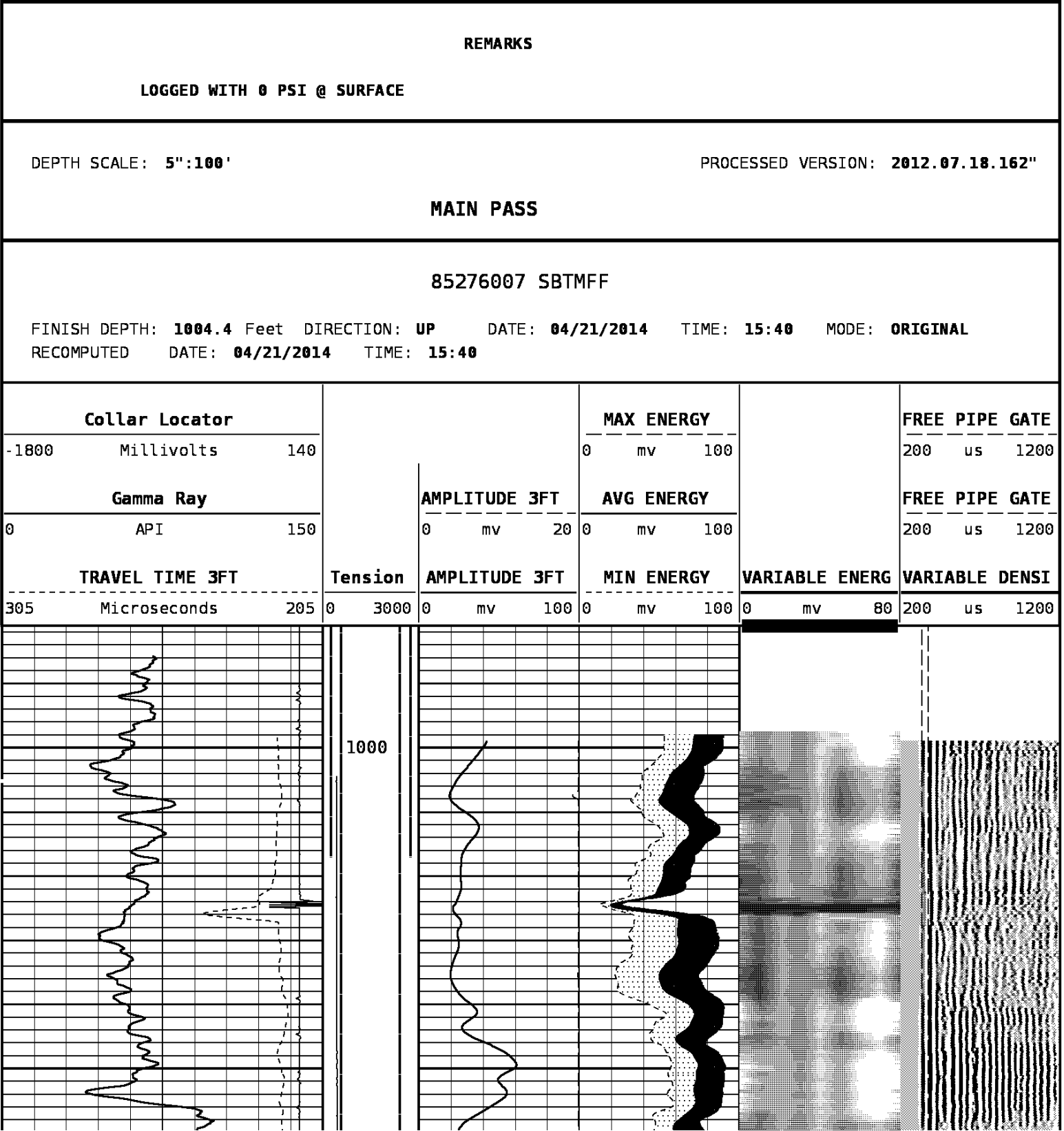
REMARKS Rig: CRANE 15002 Service Order # 85276007  
LOG WAS RAN WITH A 15' K.B. BHT 190 °F  
LOGGED WITH 0 PSI @ SURFACE

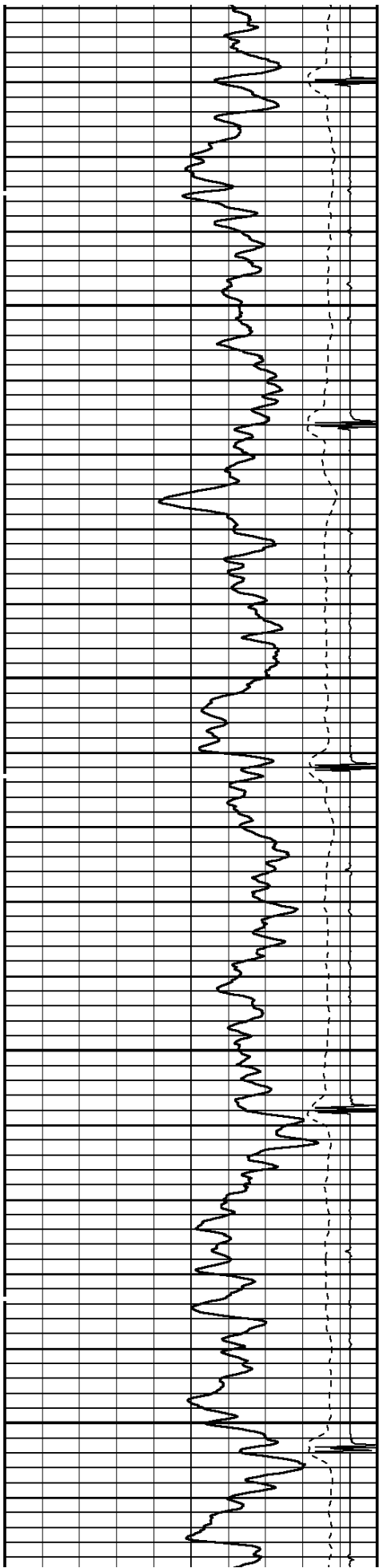
Prints: 2

THANK YOU FOR CHOOSING WEATHERFORD WIRELINE SERVICES FARMINGTON, NM (505)564-9131

EQUIPMENT DATA

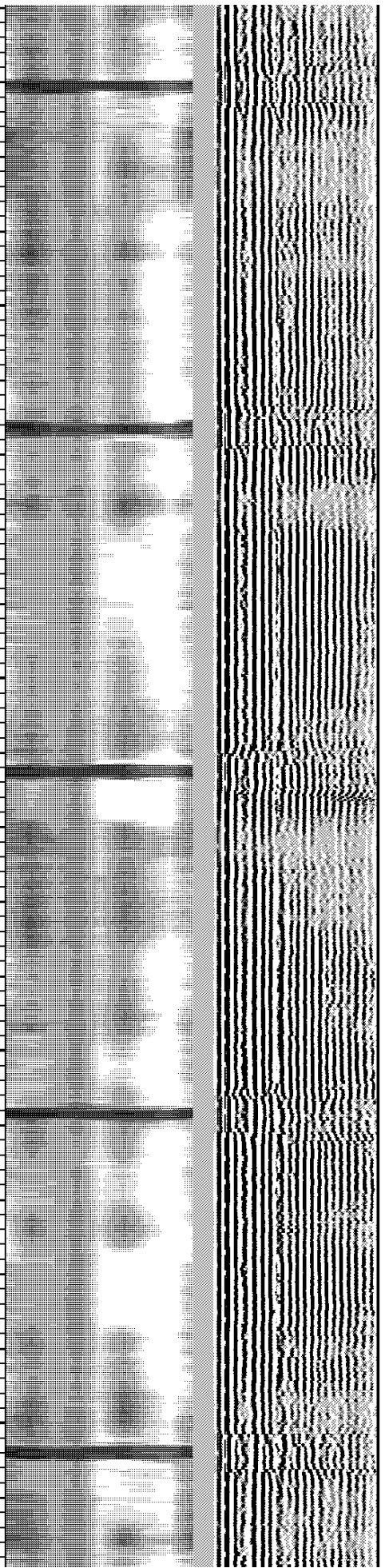
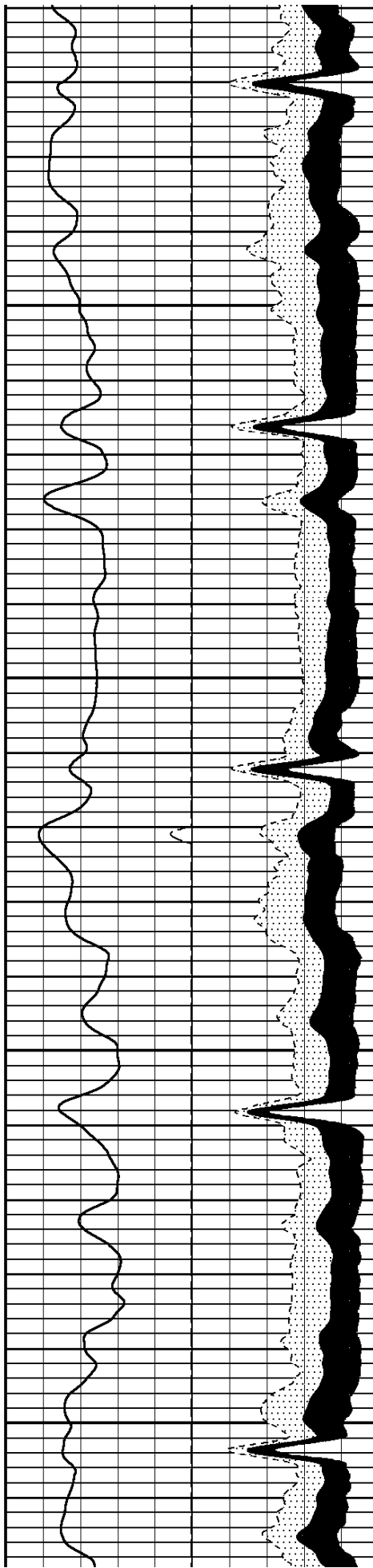
Bit Size	7.875"	Run No.	Tool Type	Tool No.	Other
Well Status	NEW DRILL	ONE	CENA	400	
Surface Pressure		ONE	CTBA	170	
Shut In	Flowing	ONE	GRBA	232	
		ONE	CENB	256	
		ONE	SBTA	238	
		ONE	CENA	258	

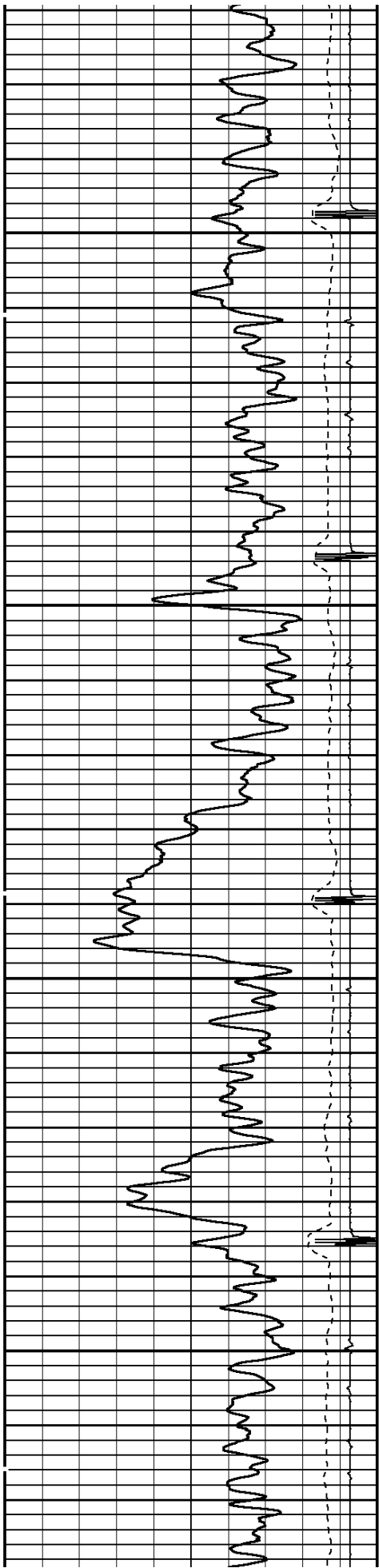





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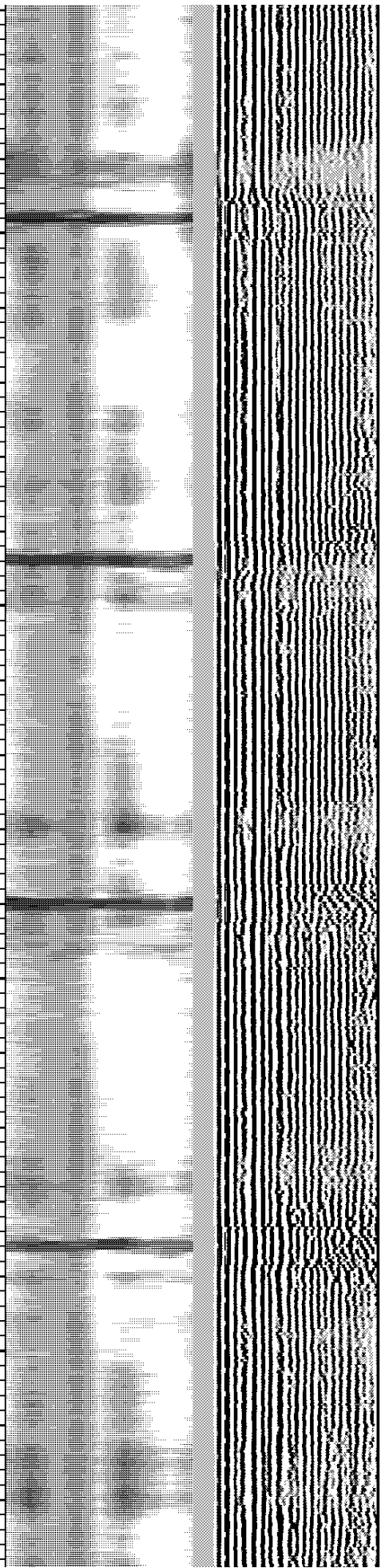
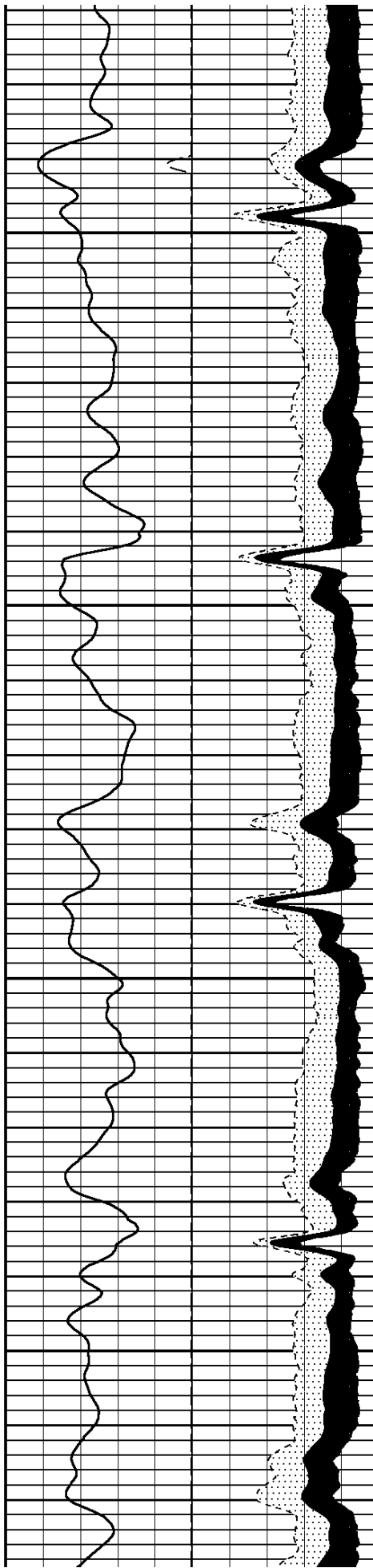
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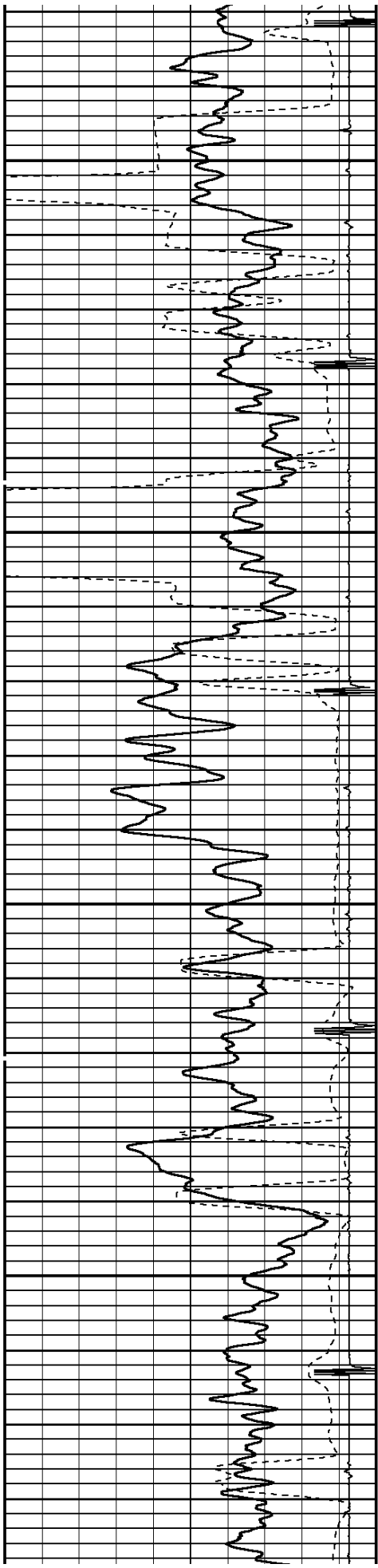




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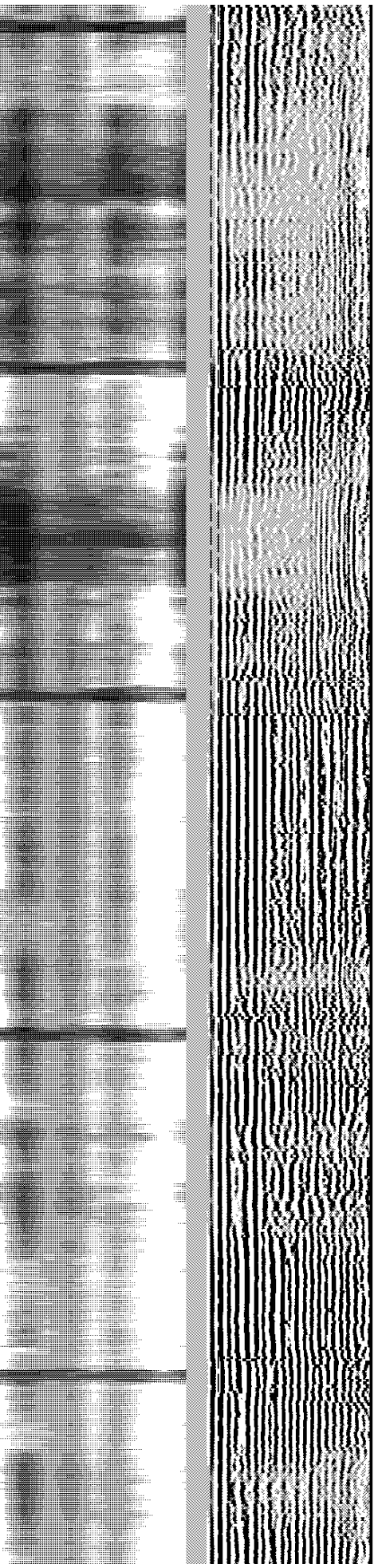
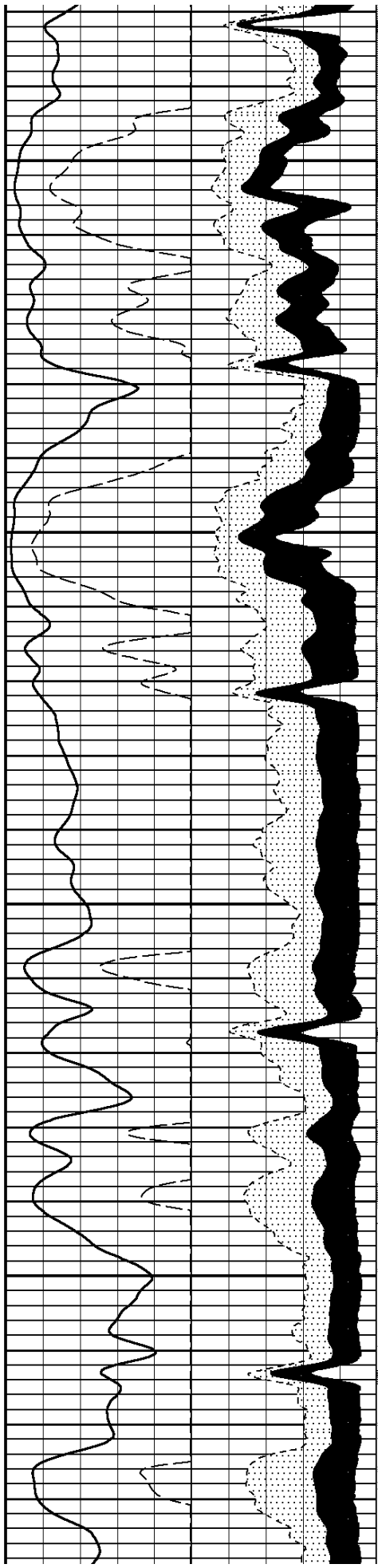
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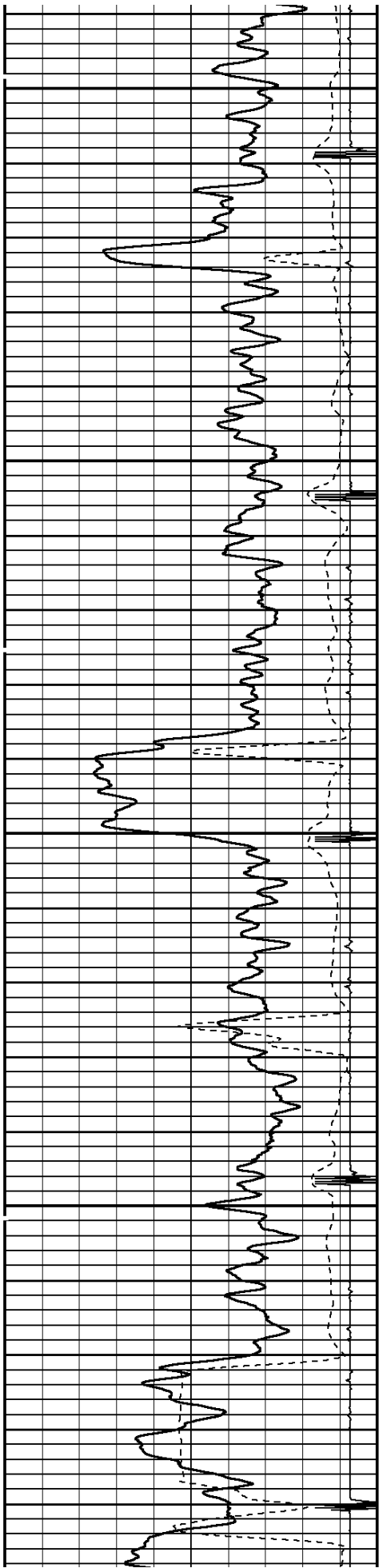




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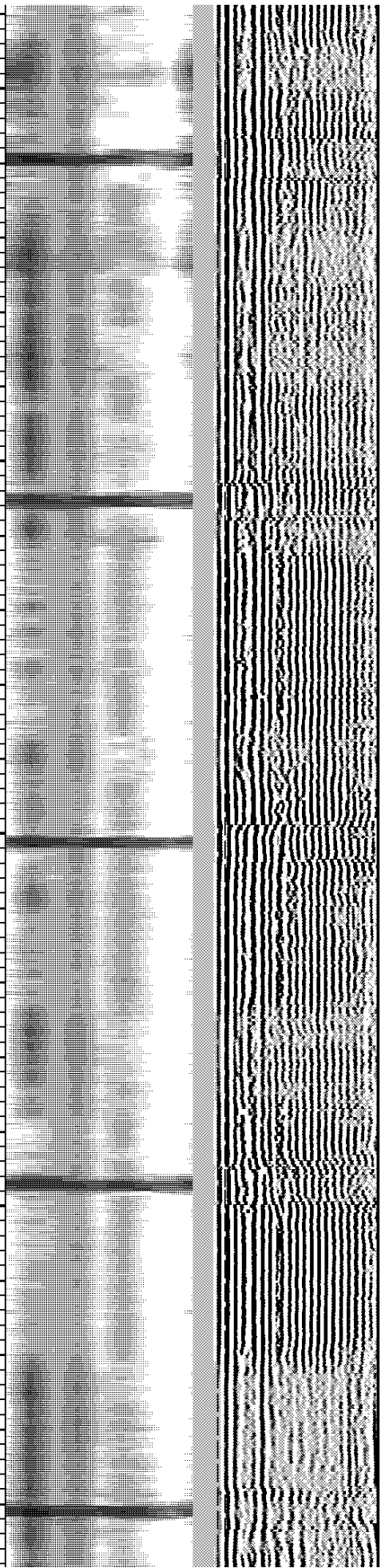
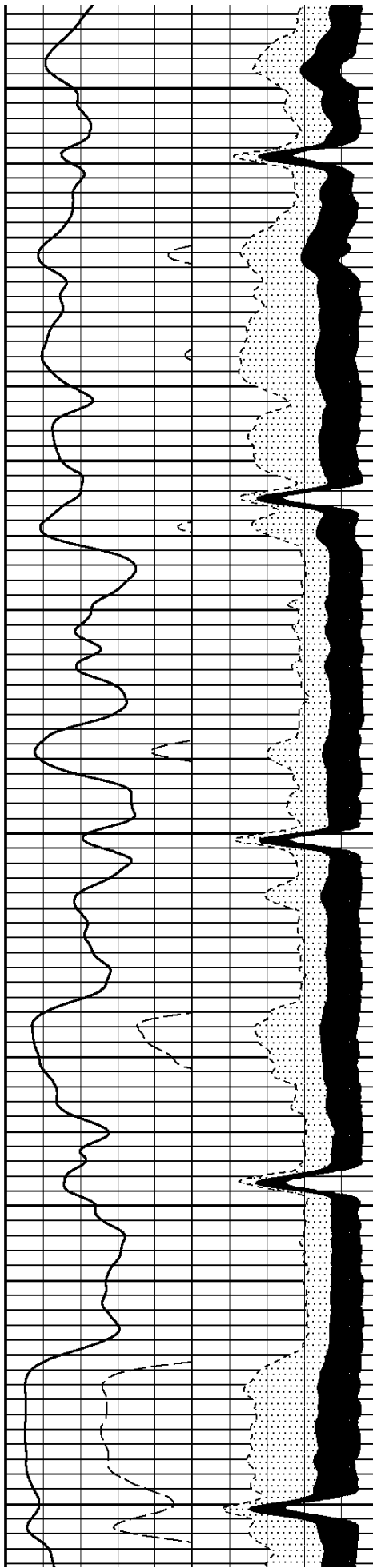
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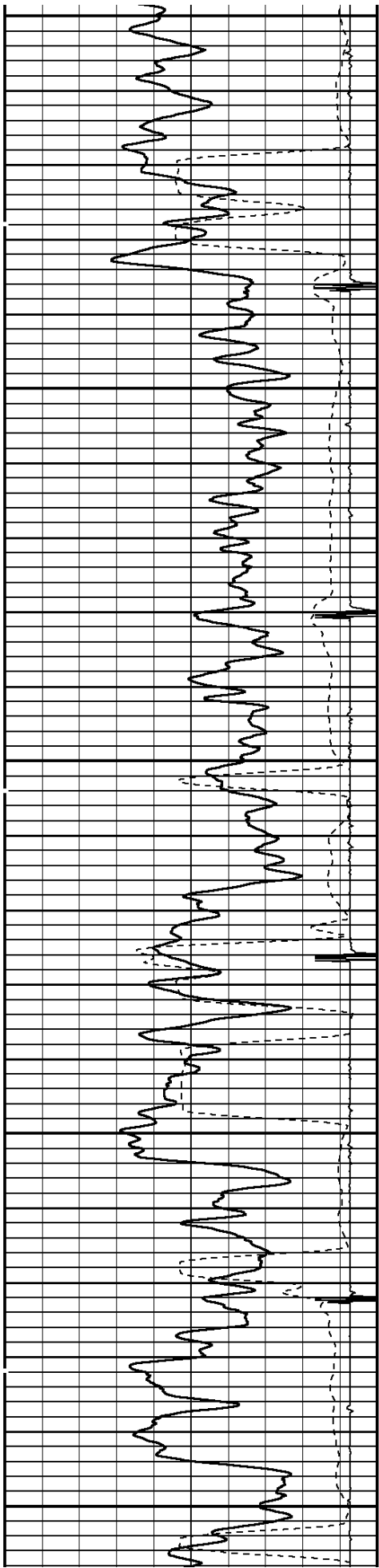




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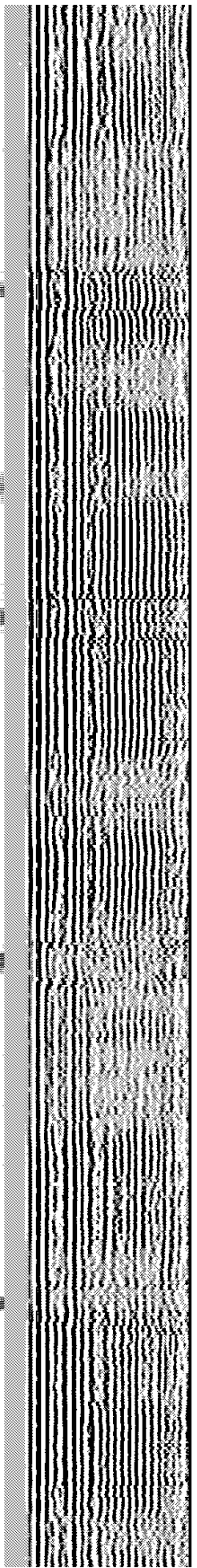
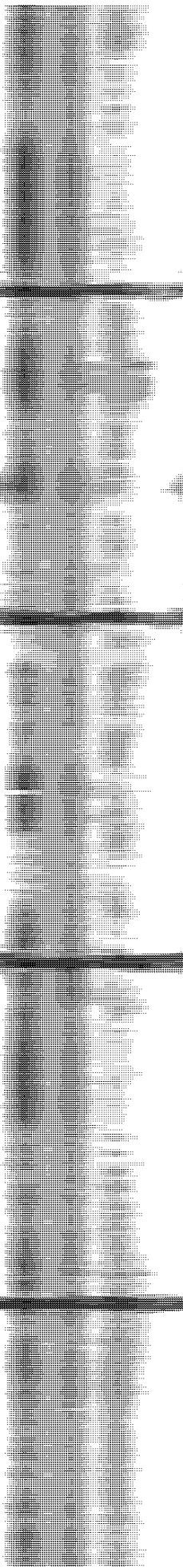
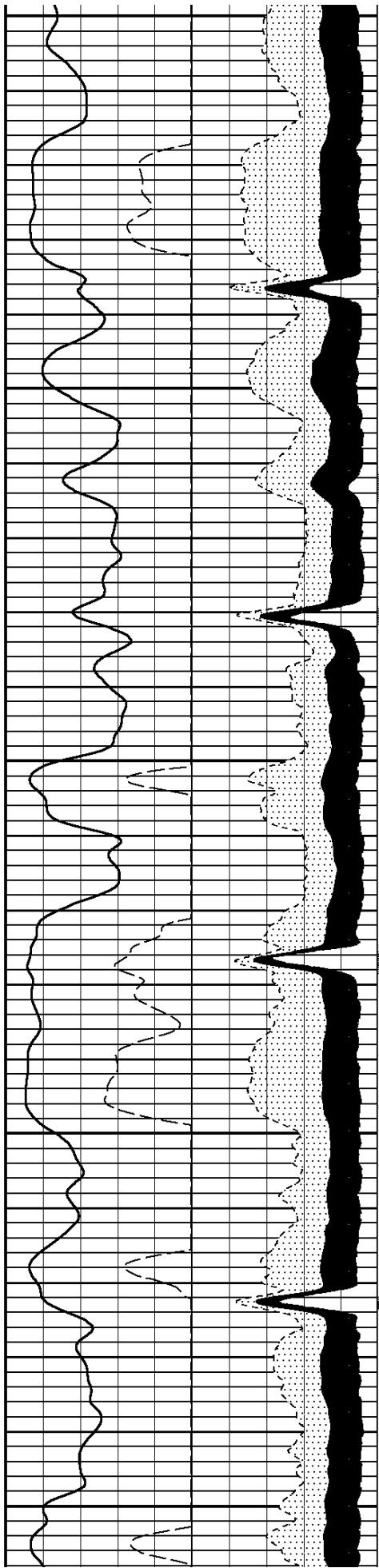


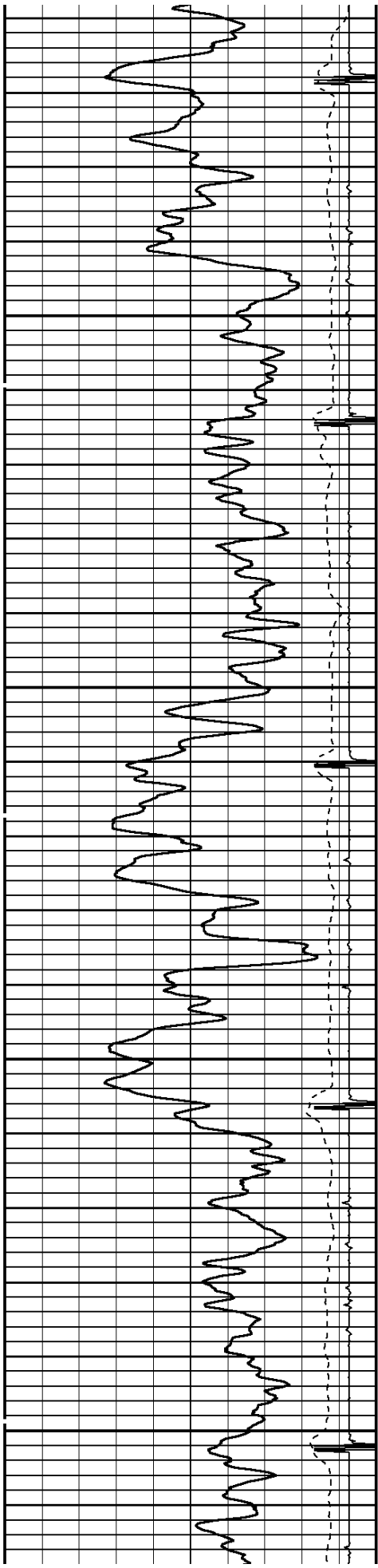


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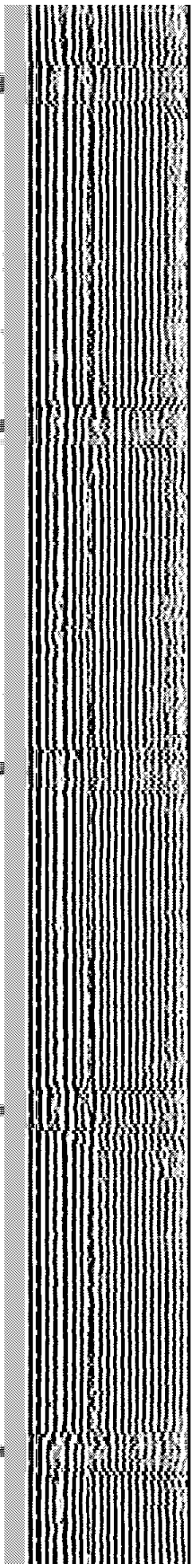
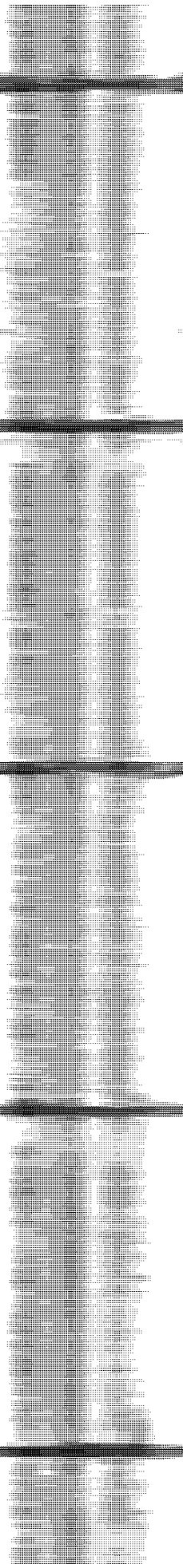
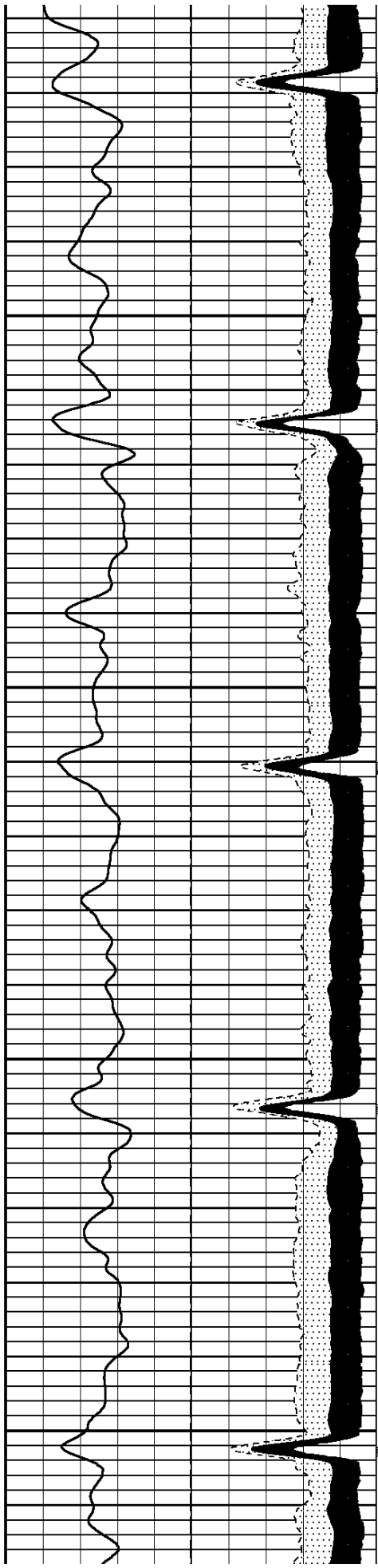
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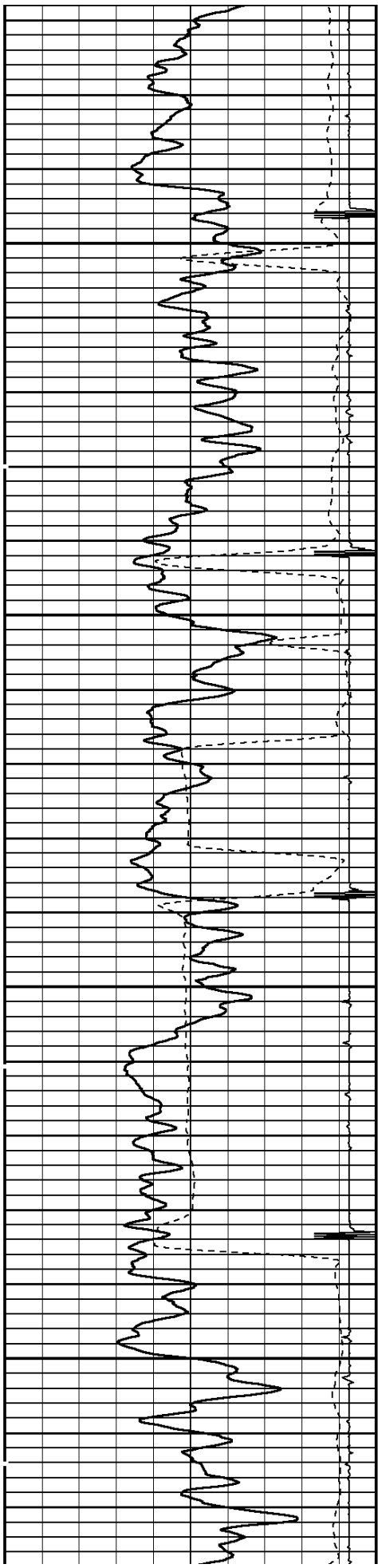


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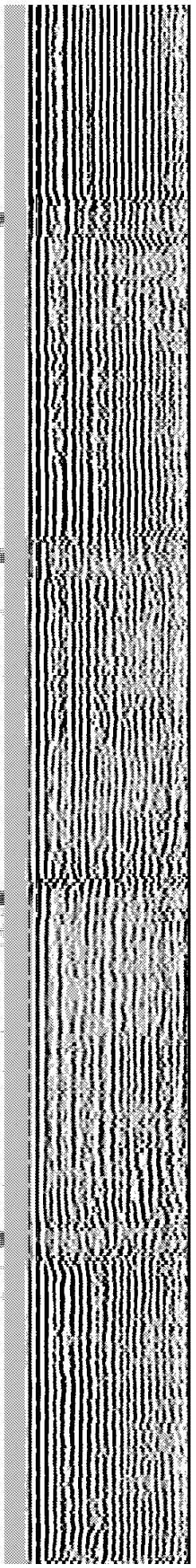
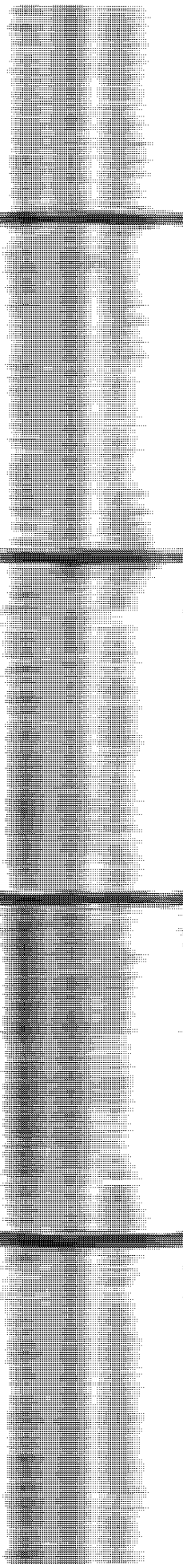
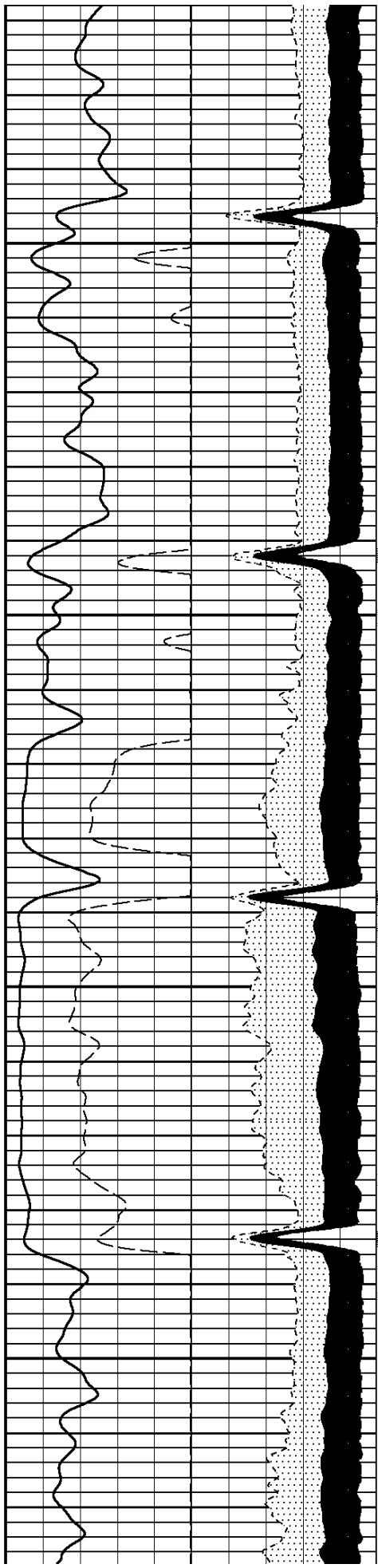


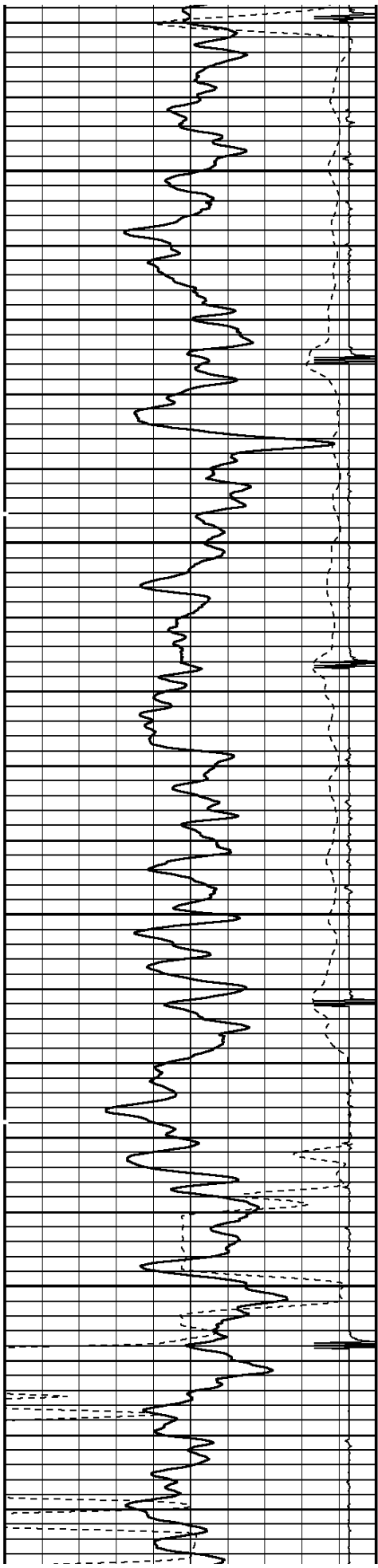




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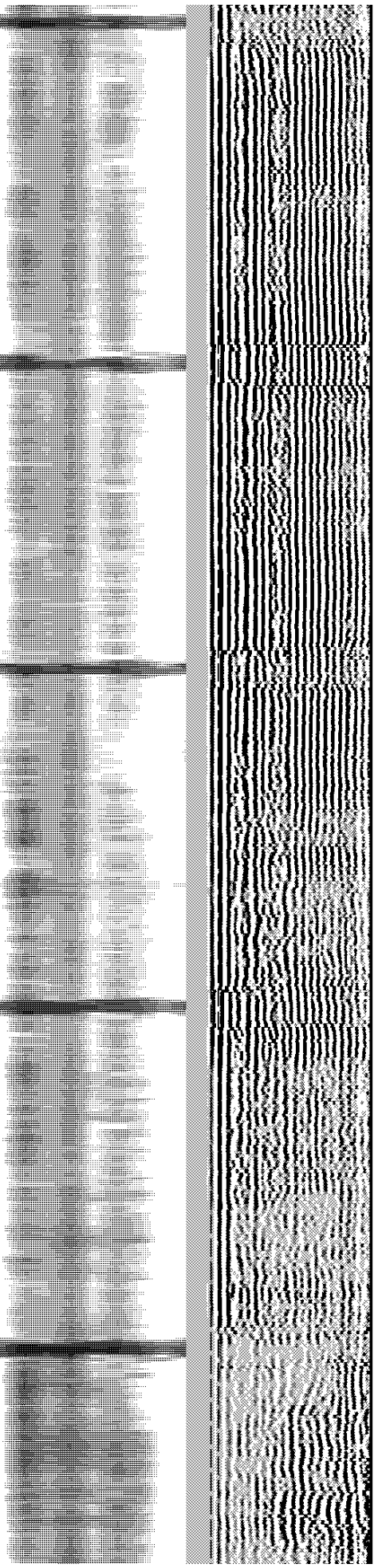
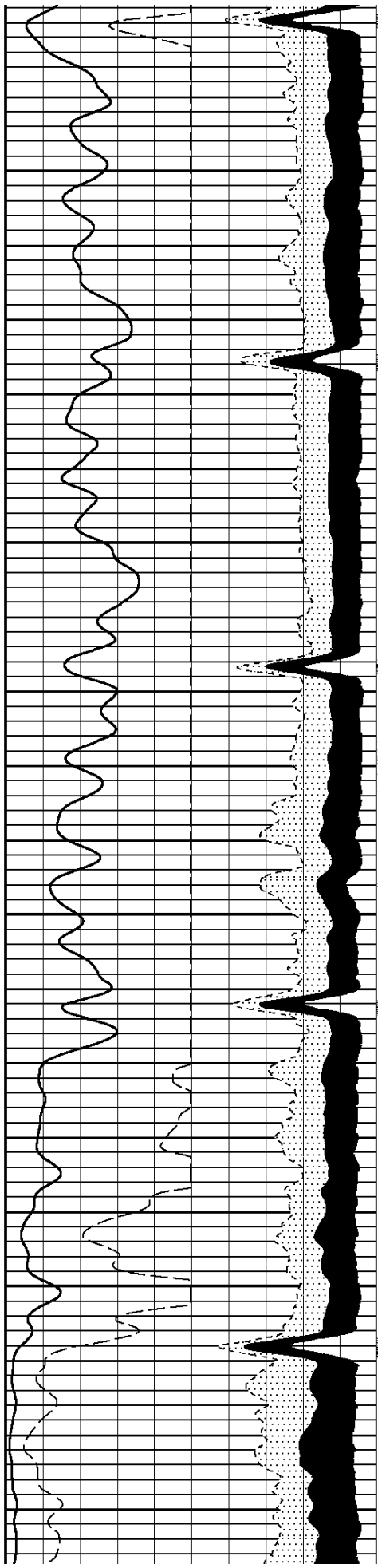
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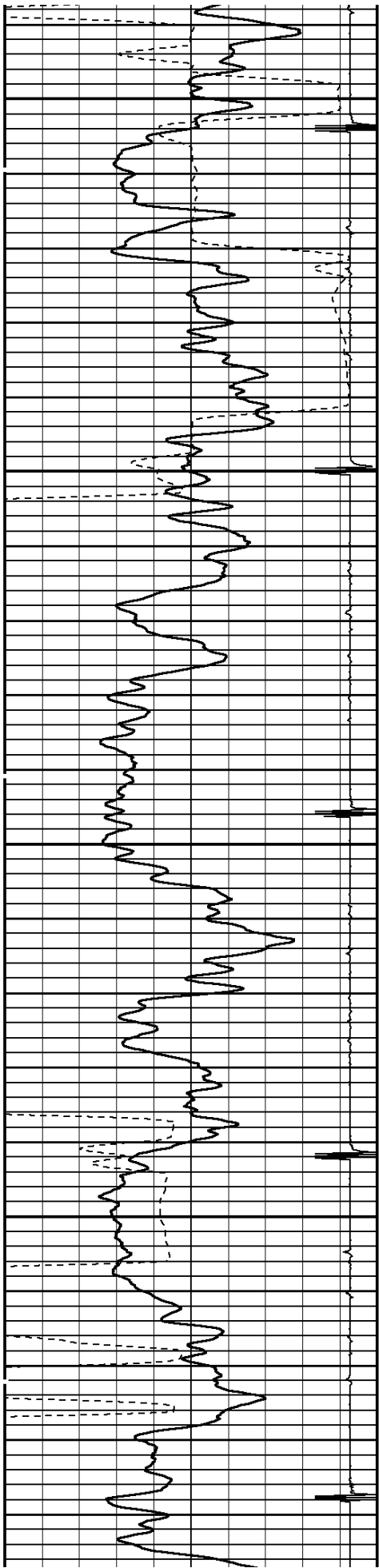




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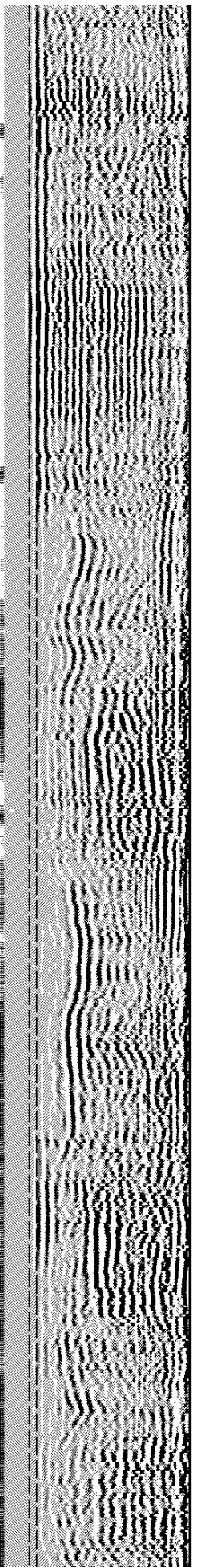
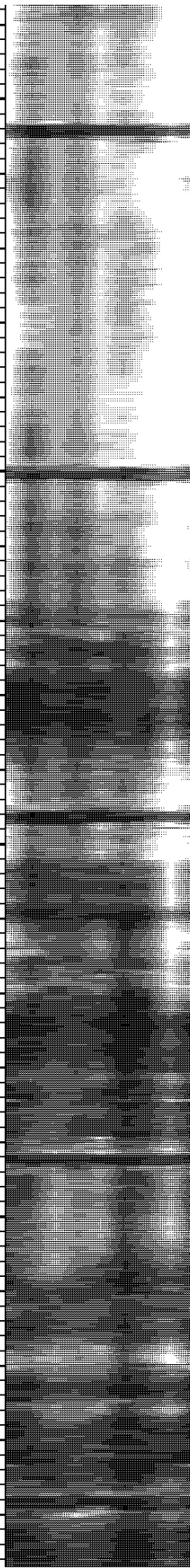
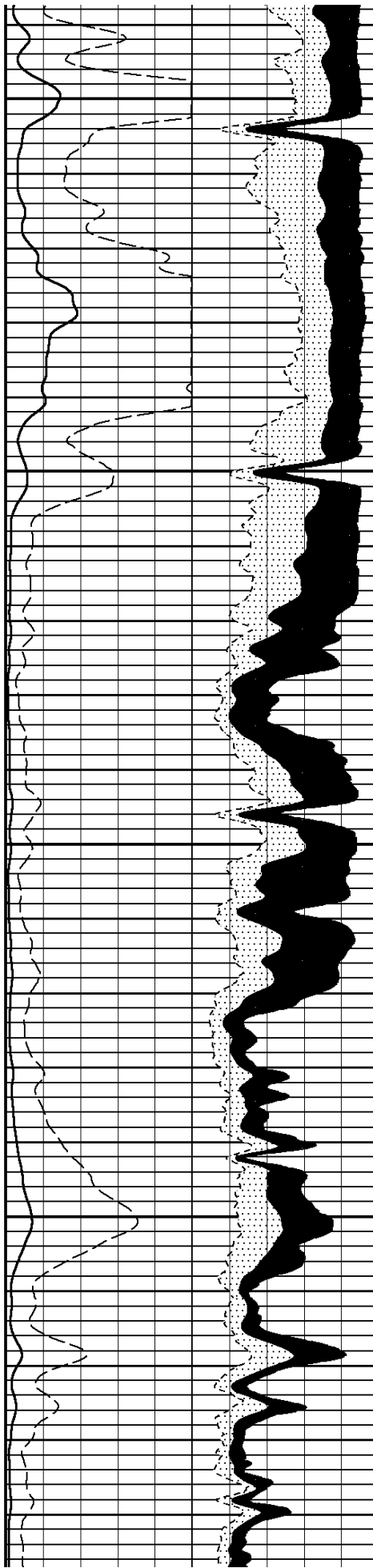
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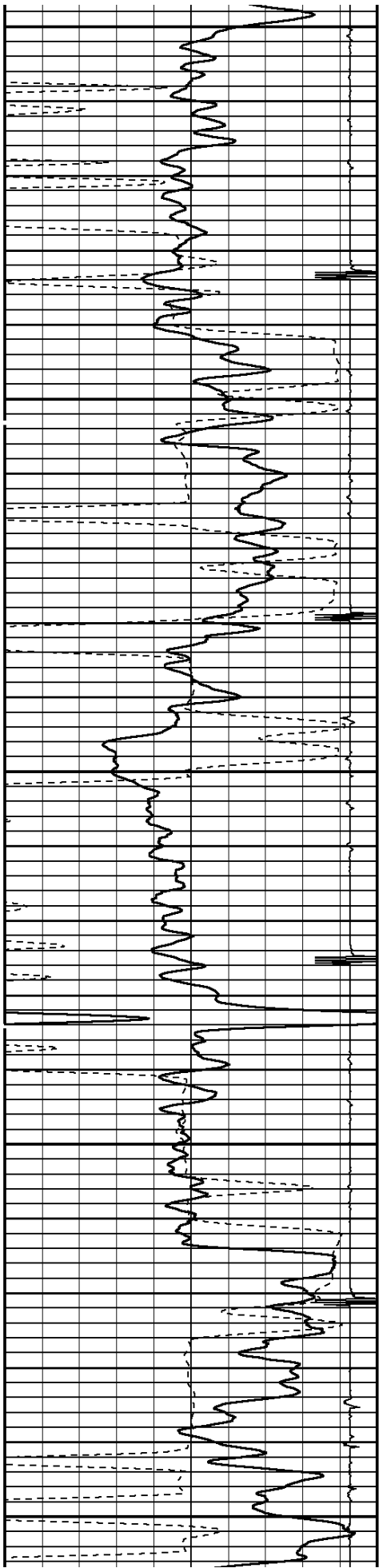




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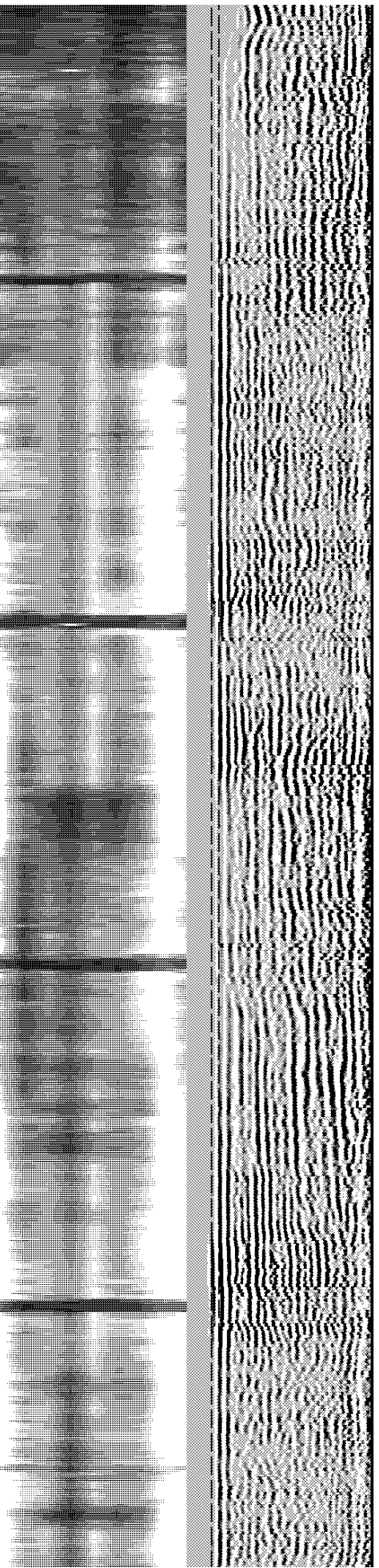
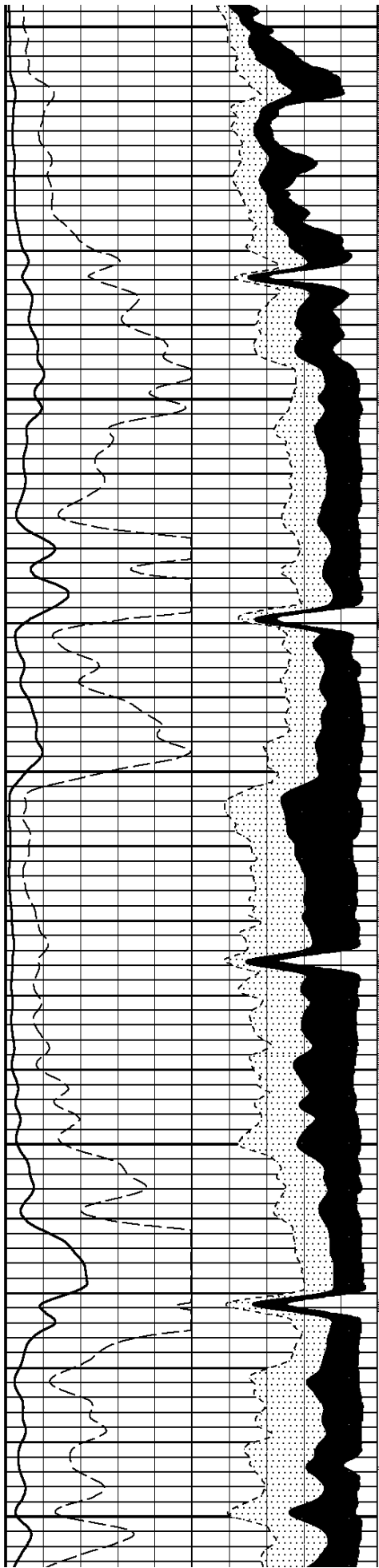
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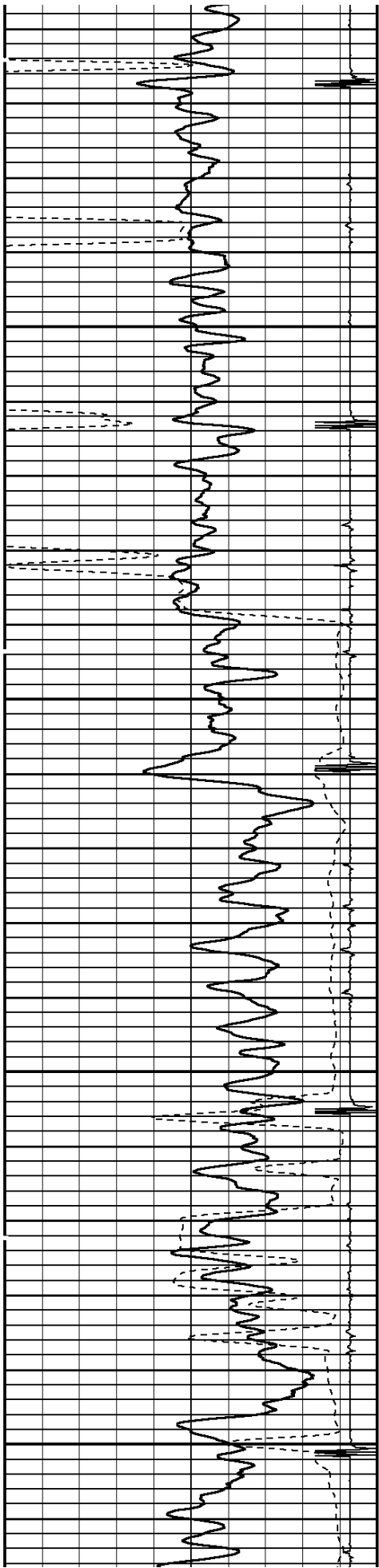




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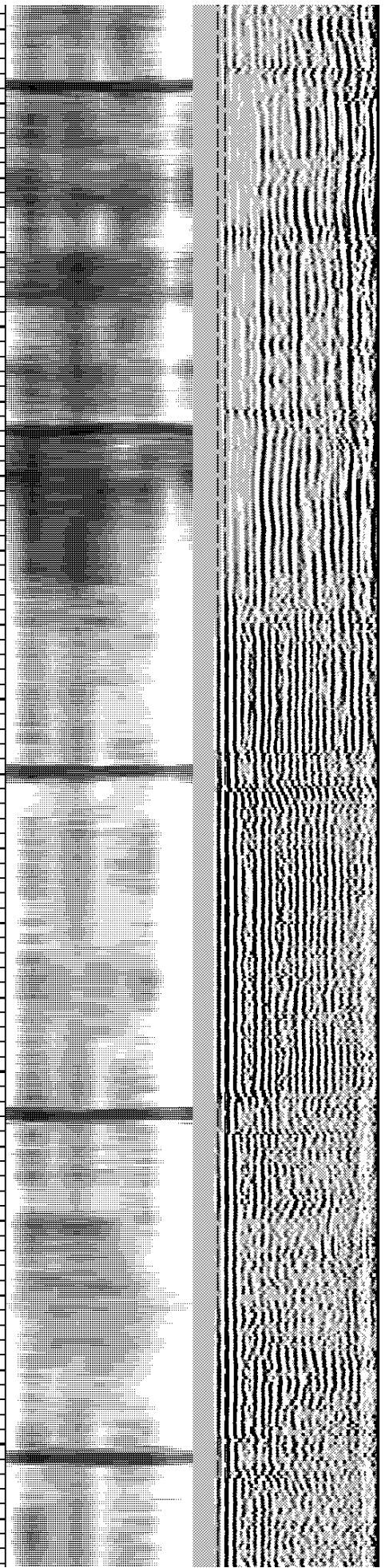
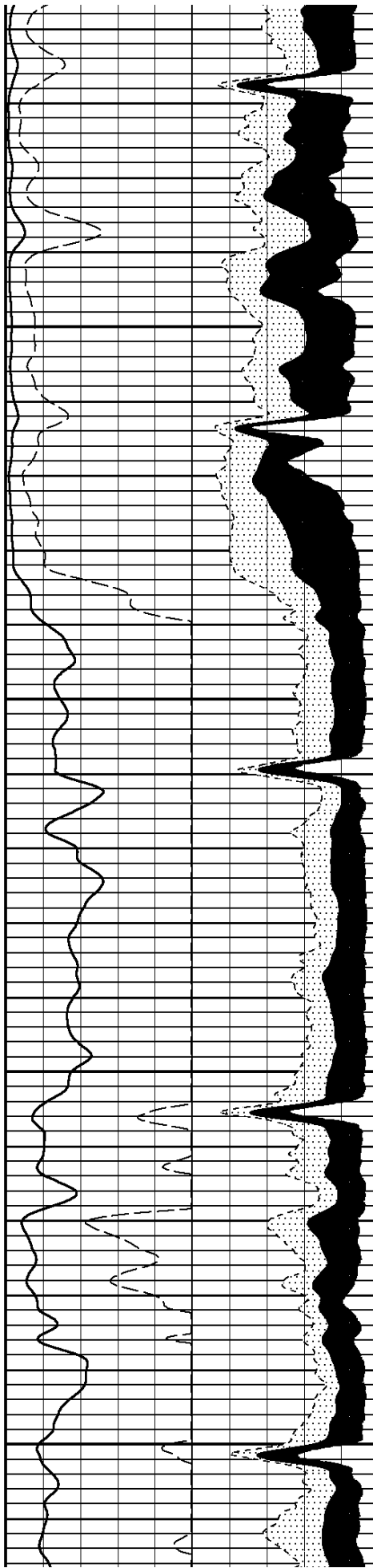
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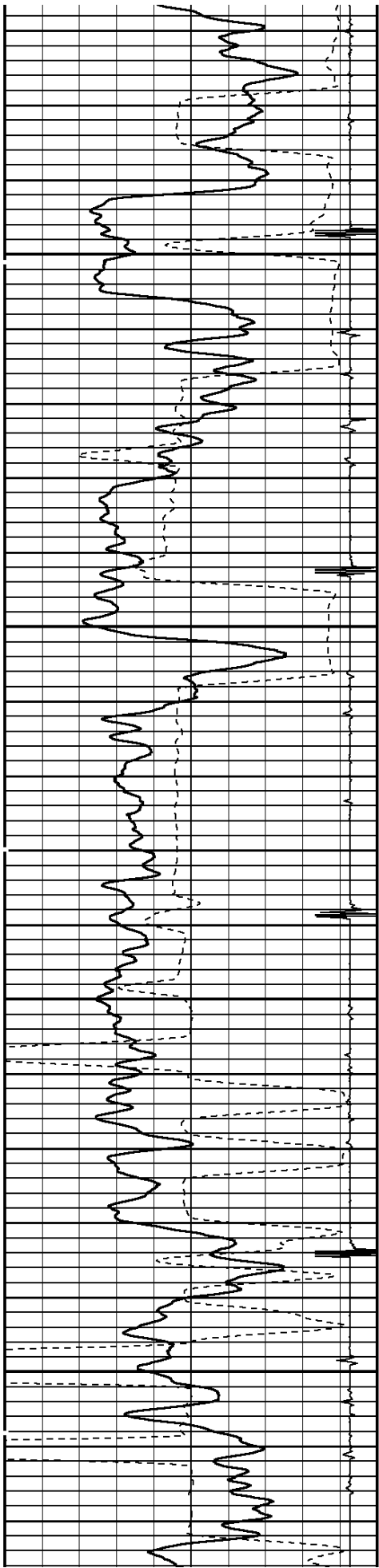




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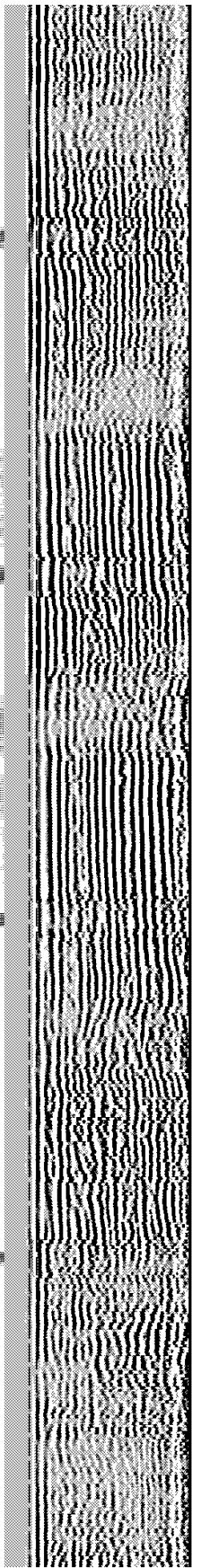
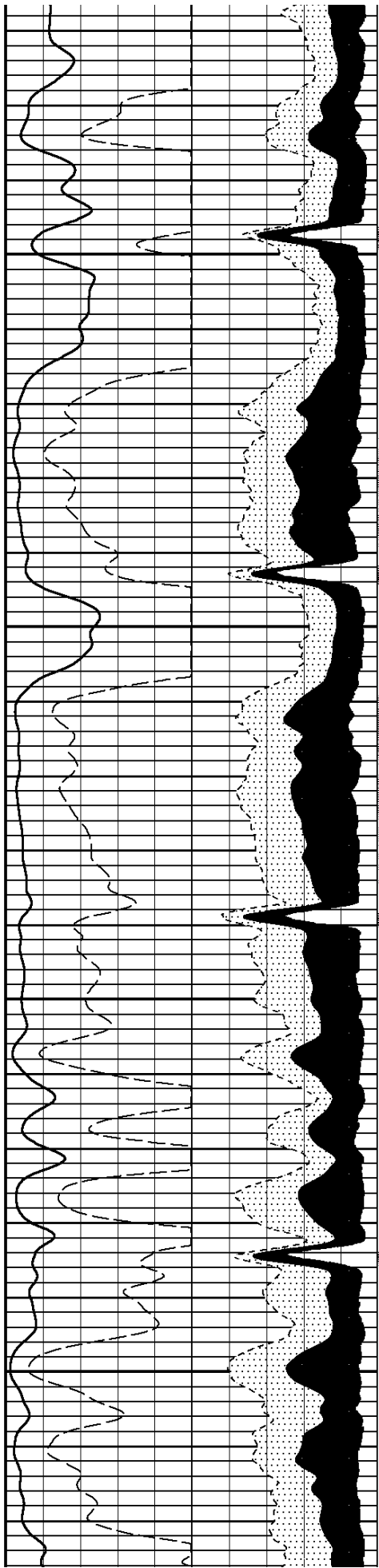
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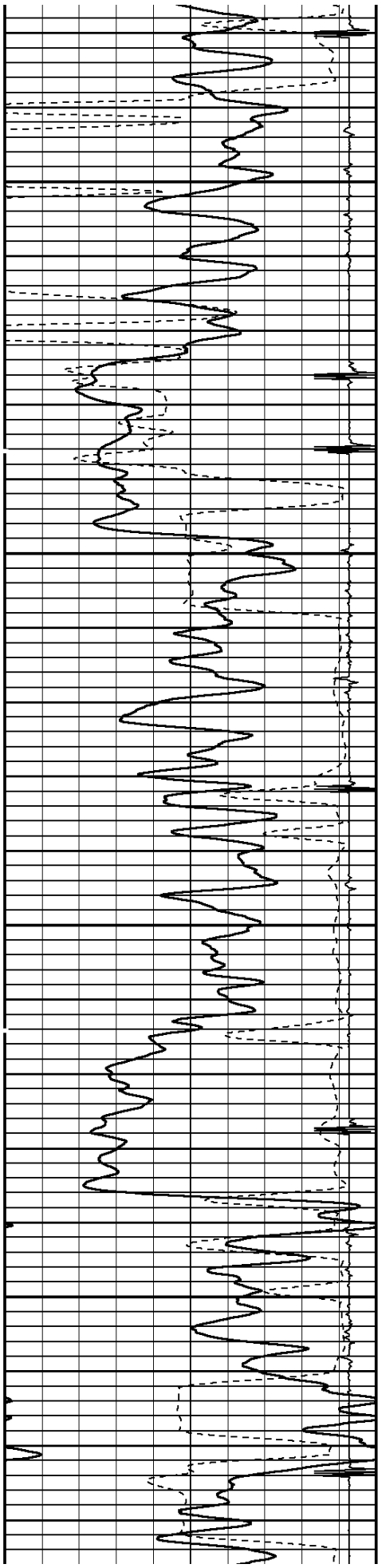




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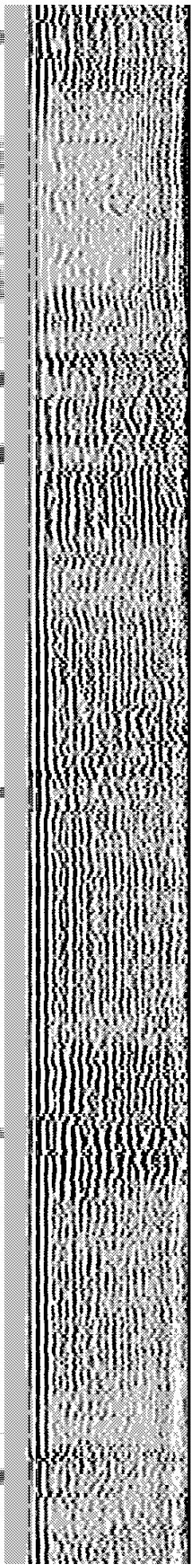
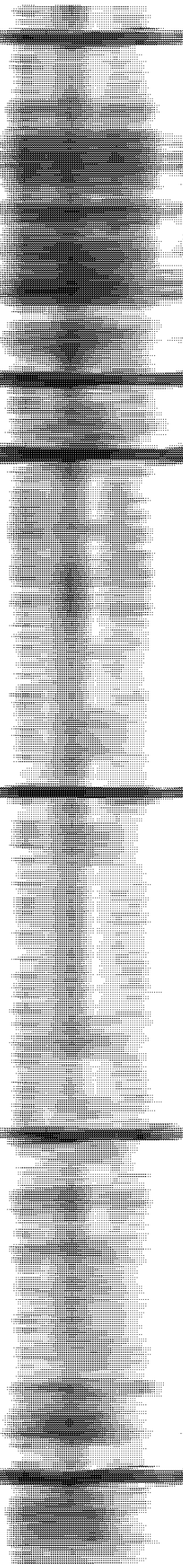
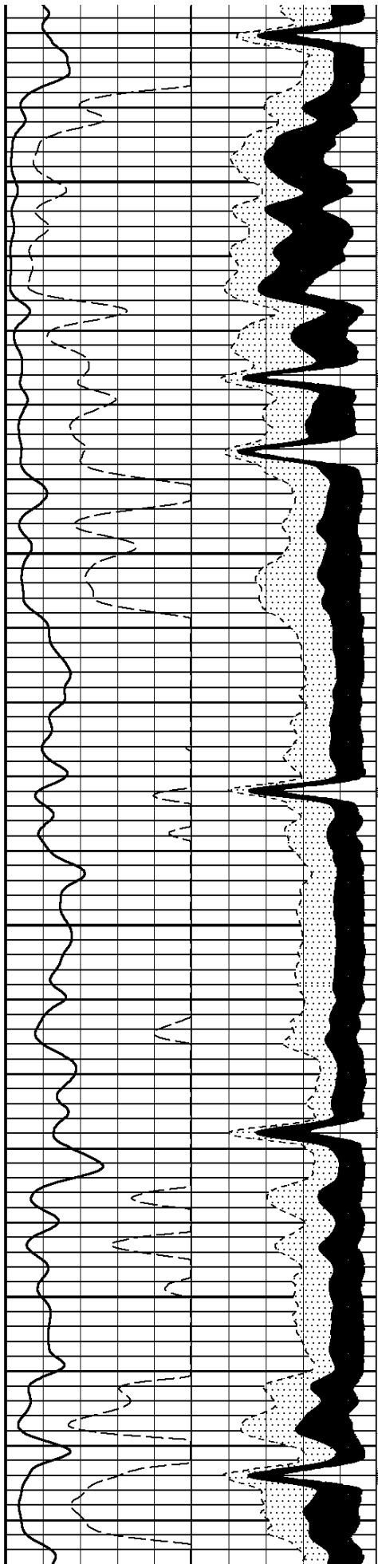
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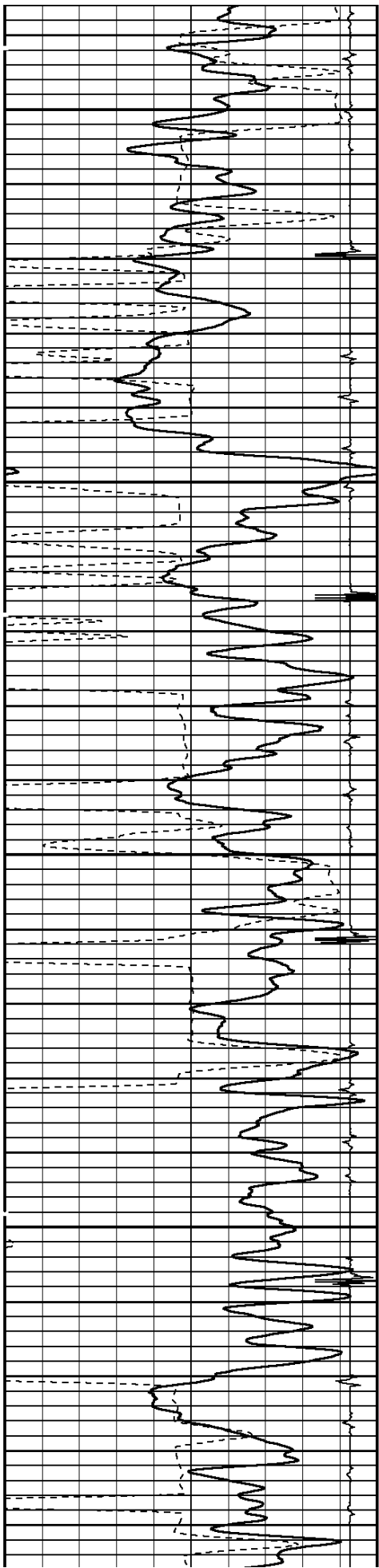


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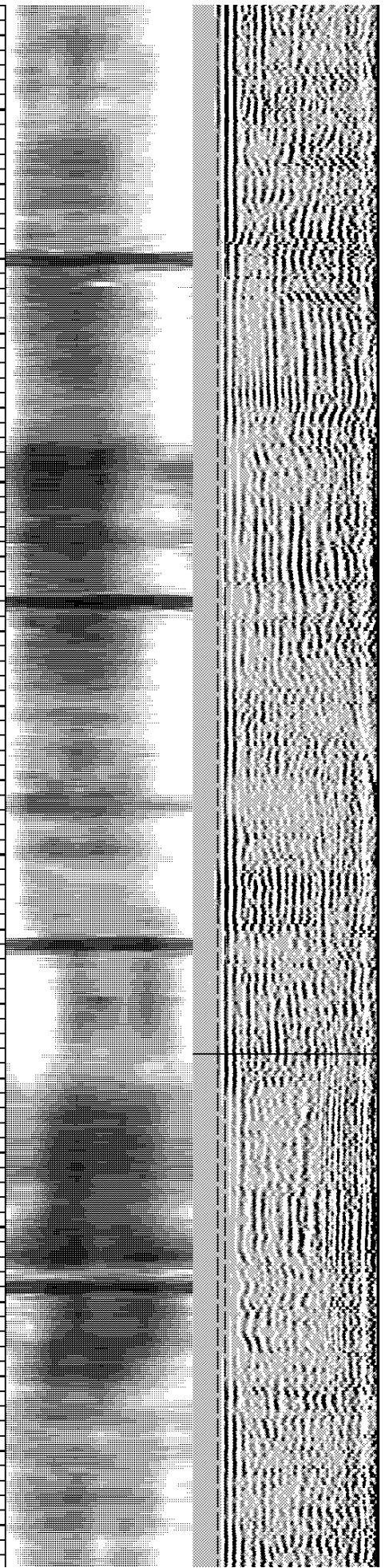
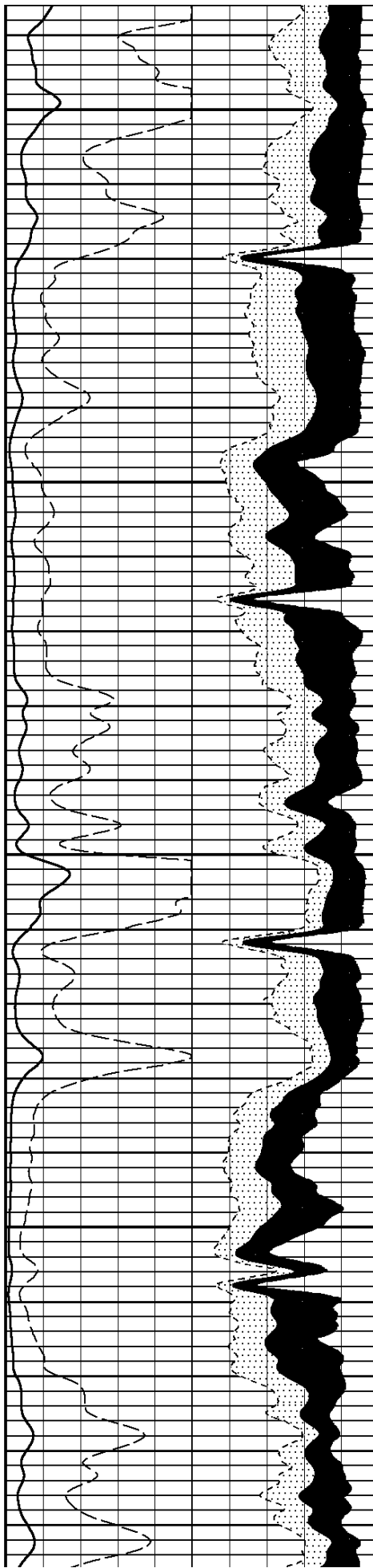




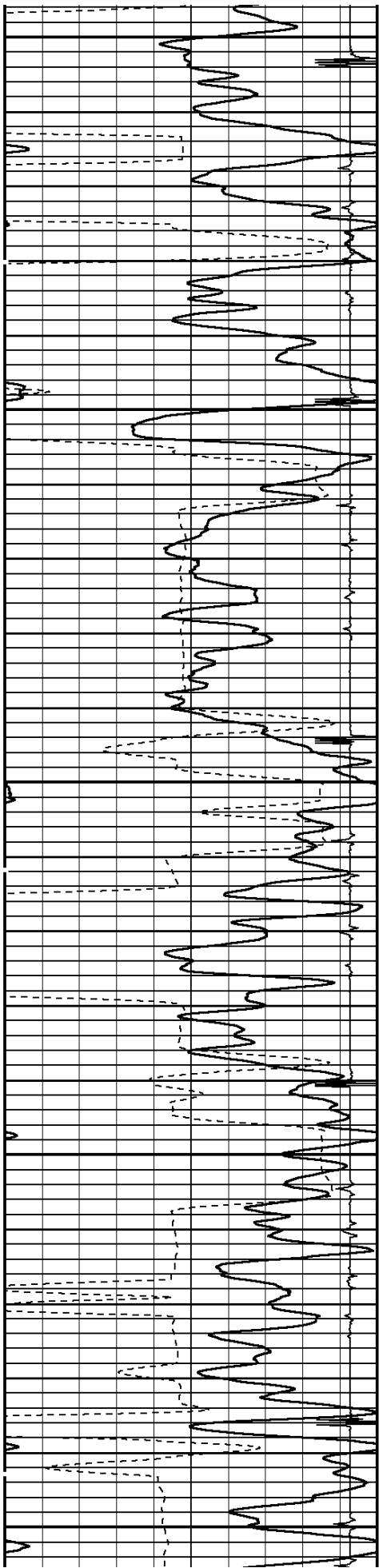


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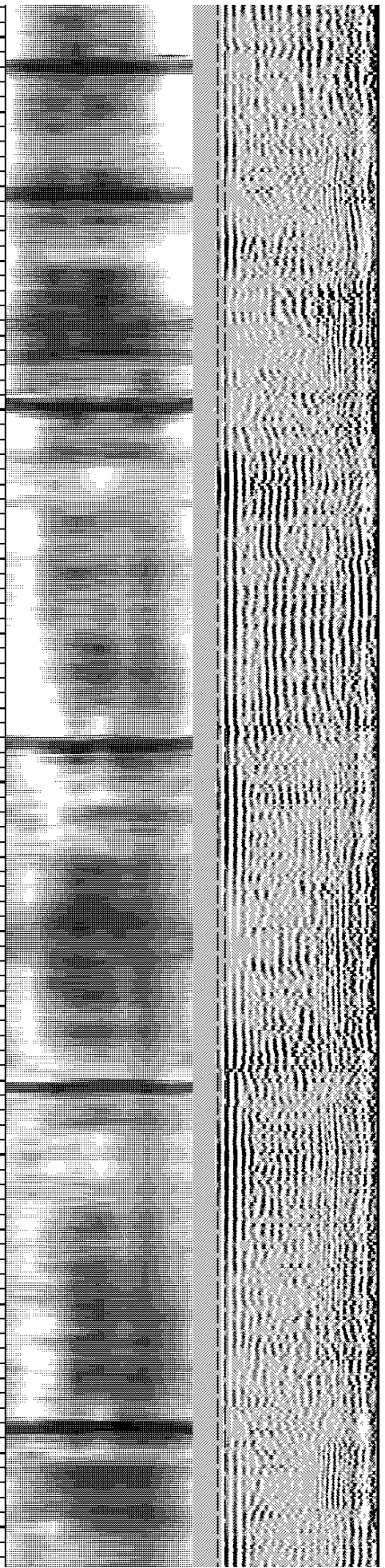
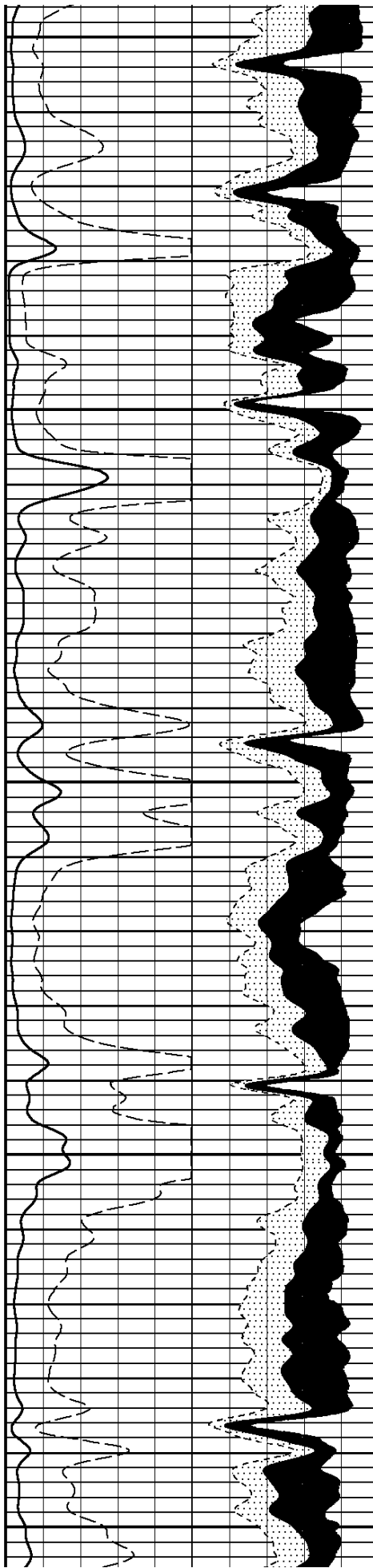


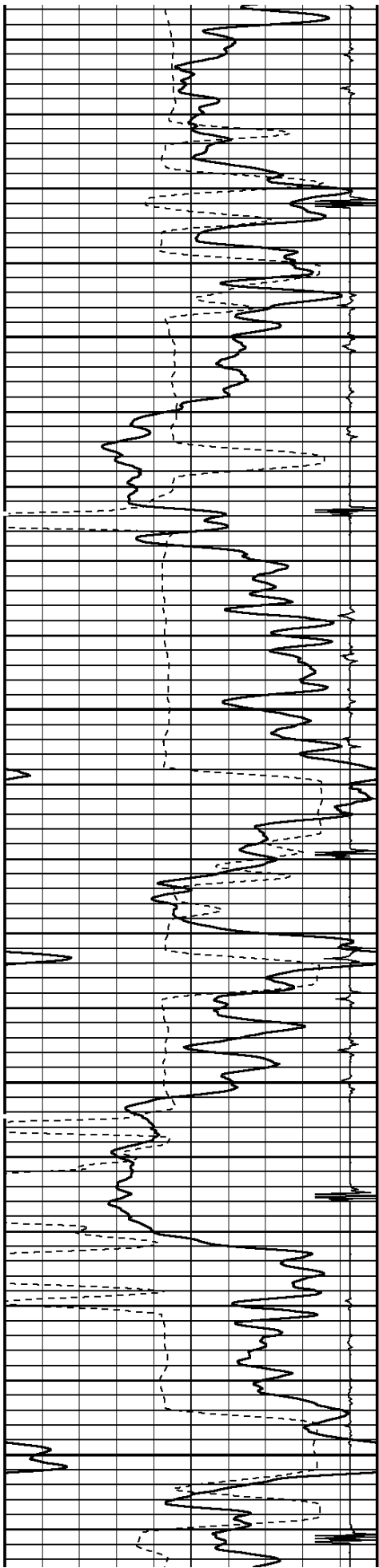


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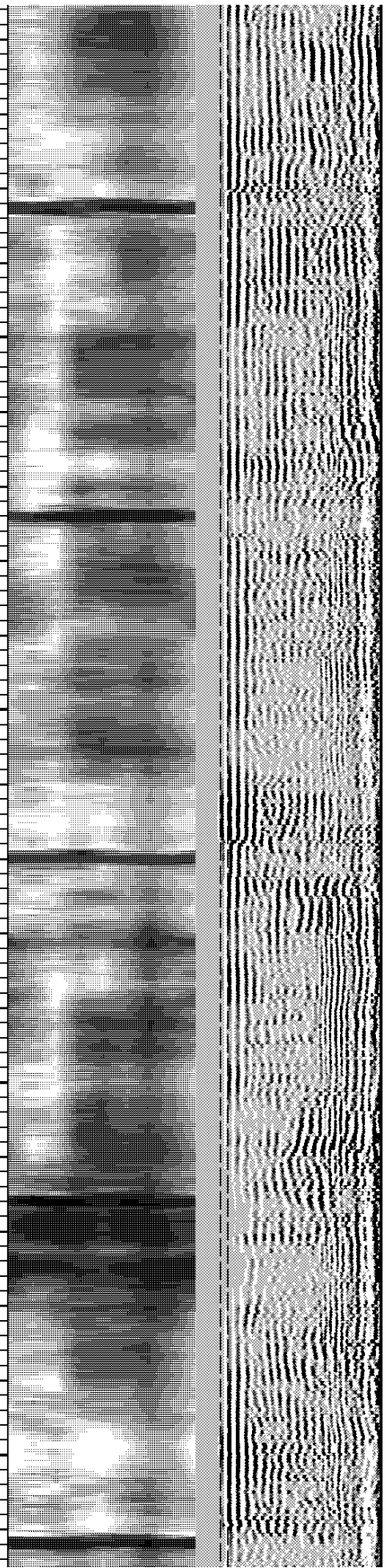
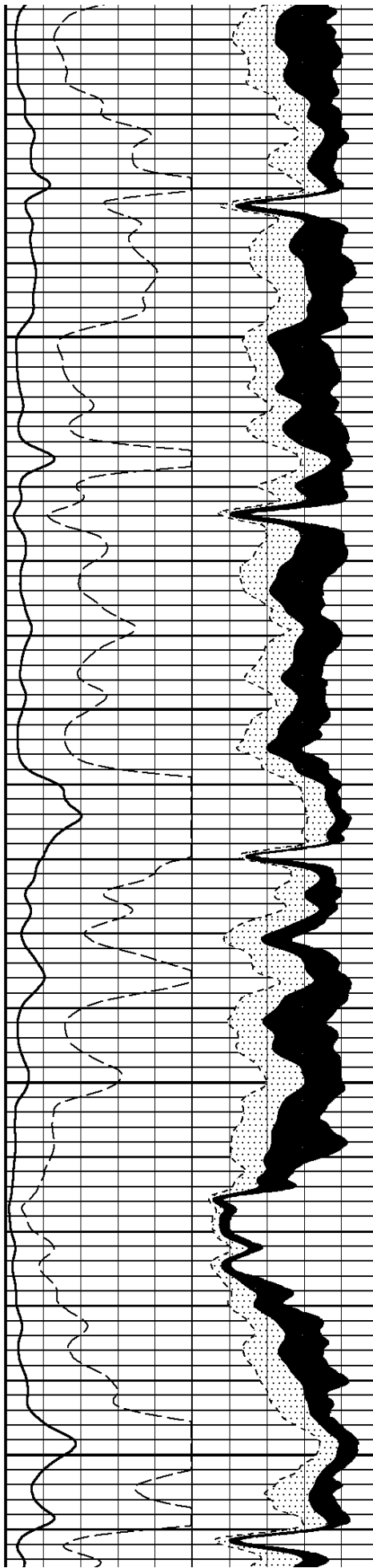
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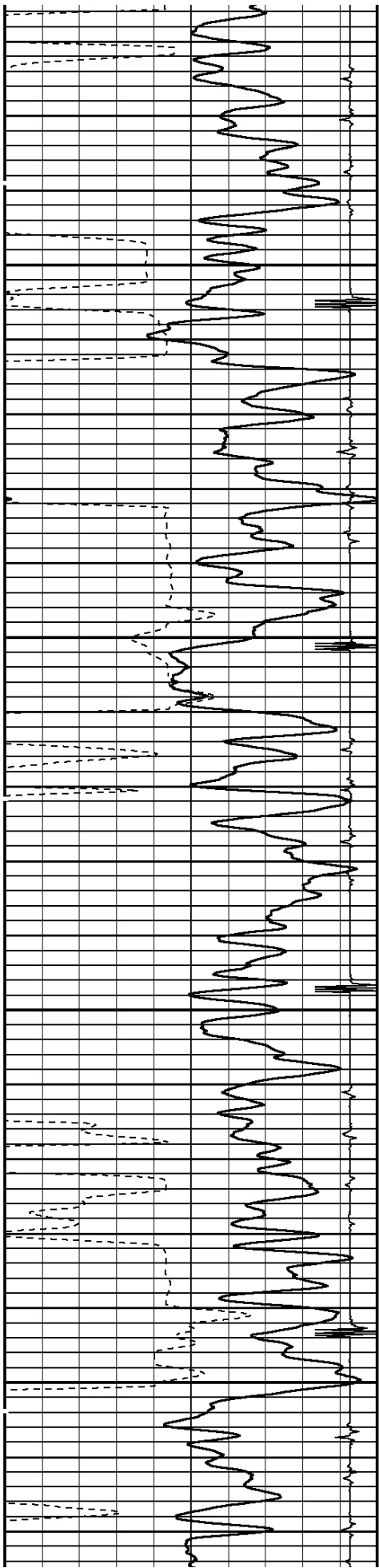




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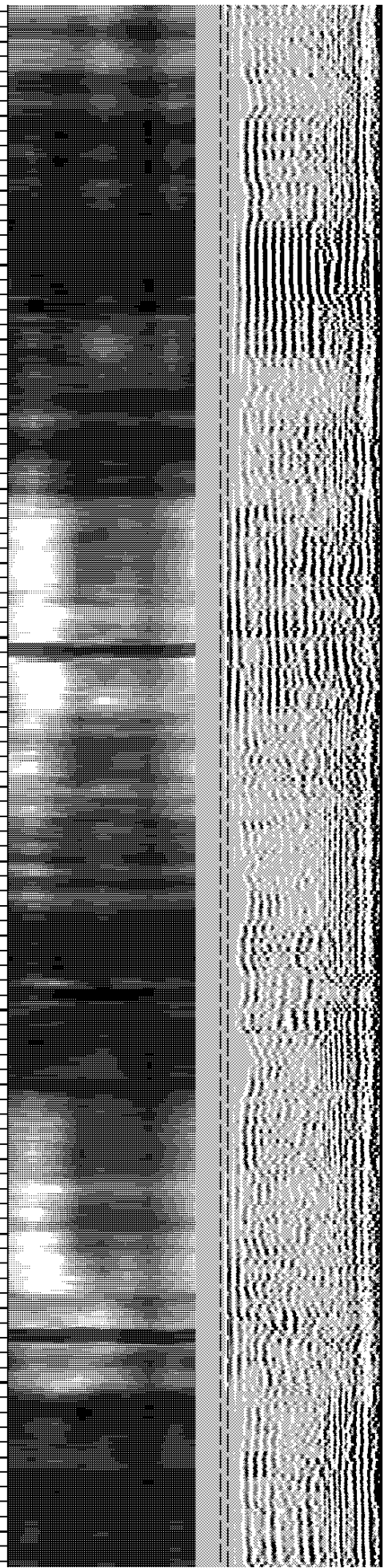
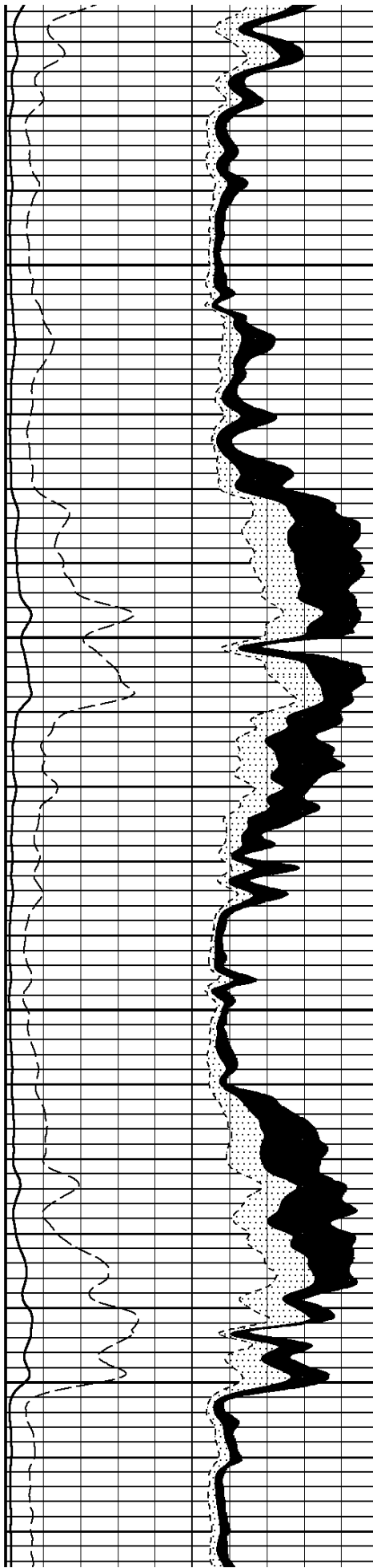
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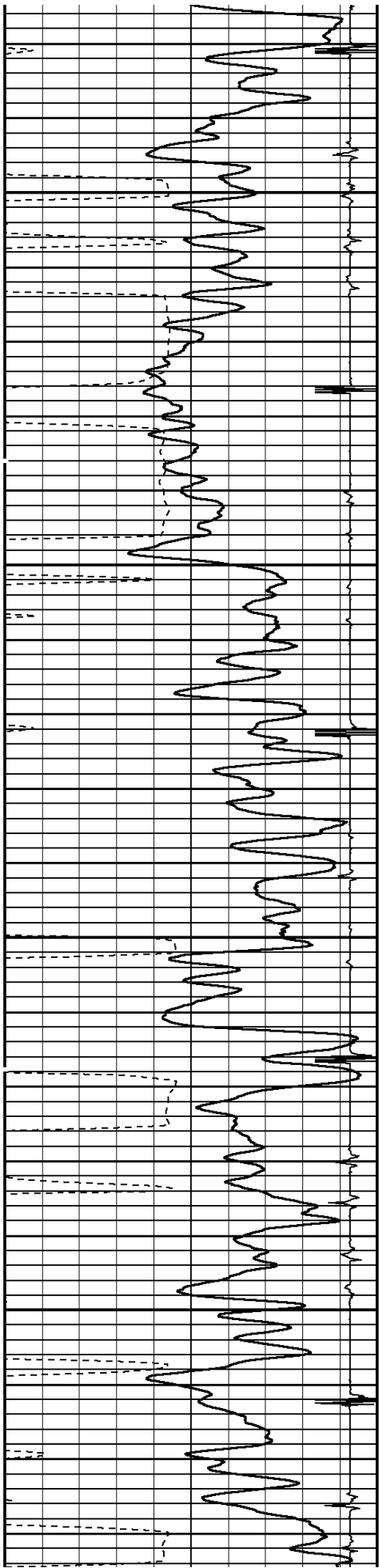




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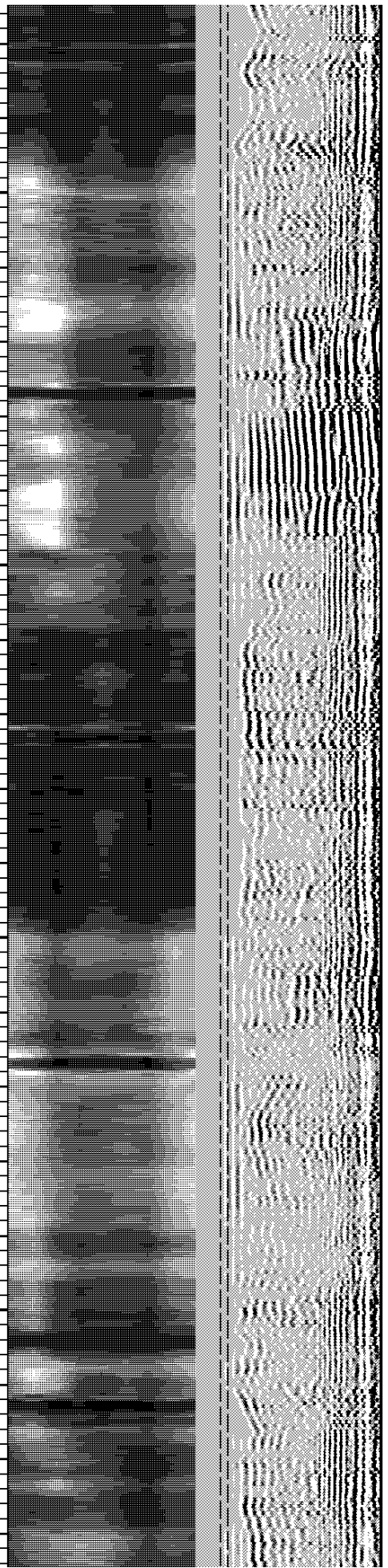
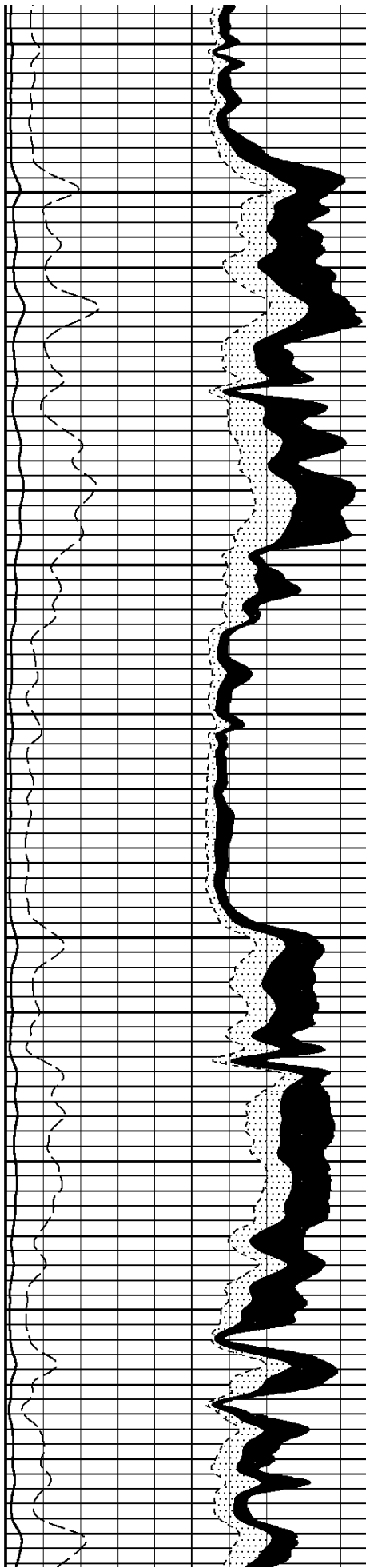
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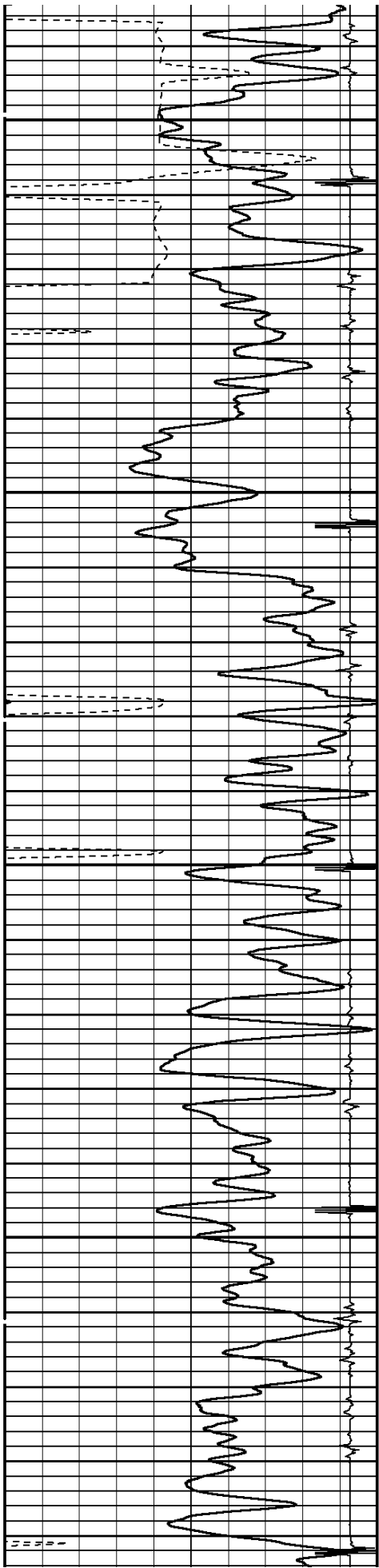




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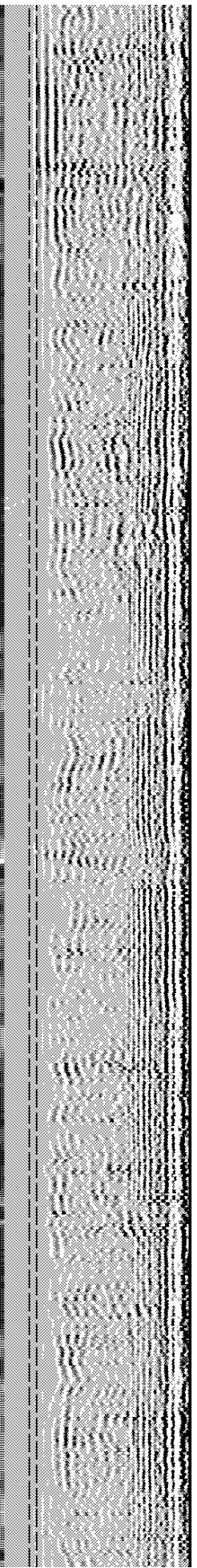
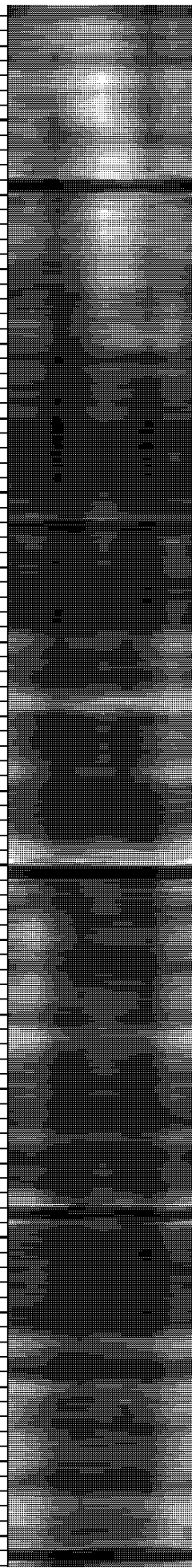
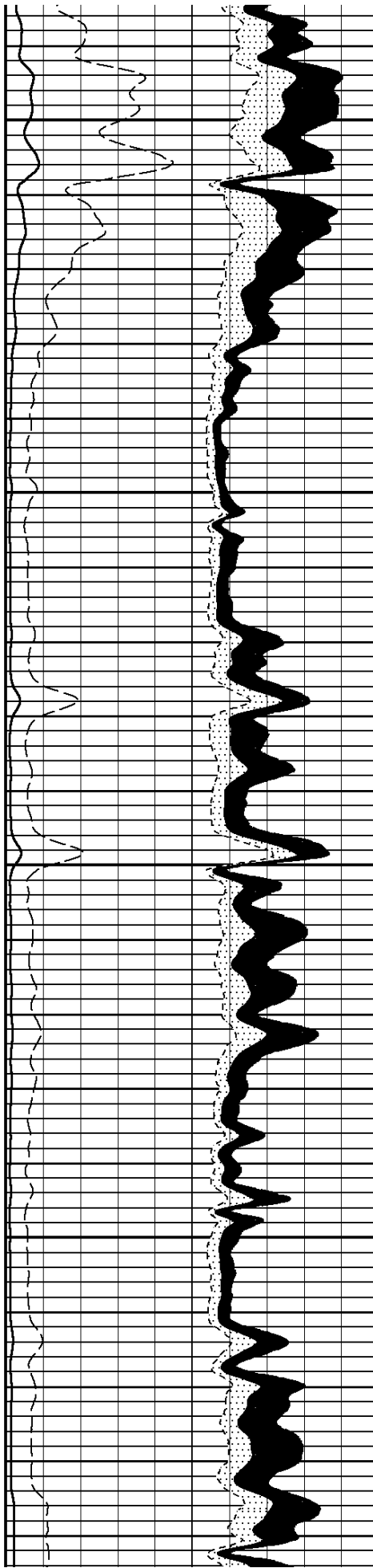
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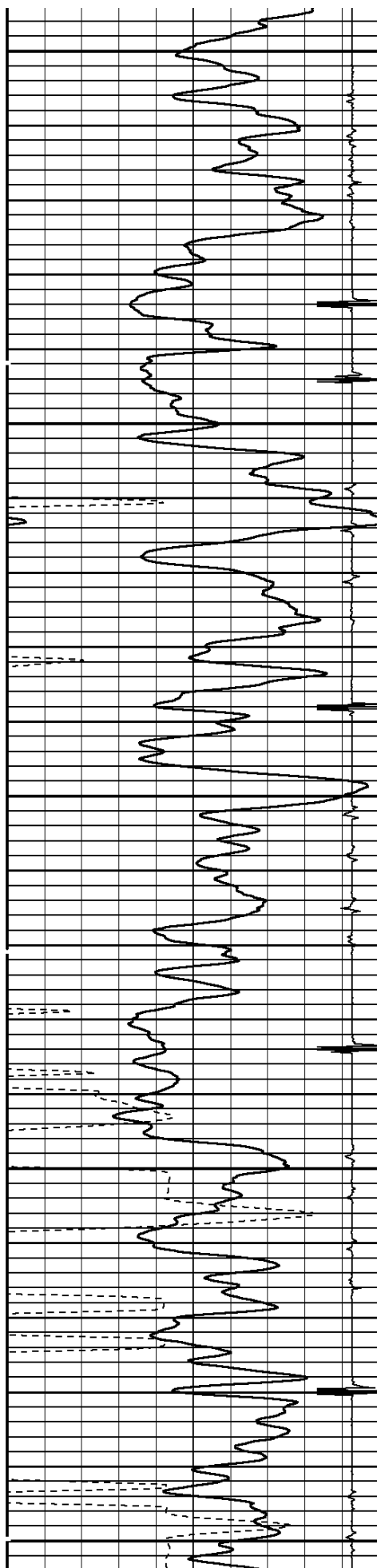




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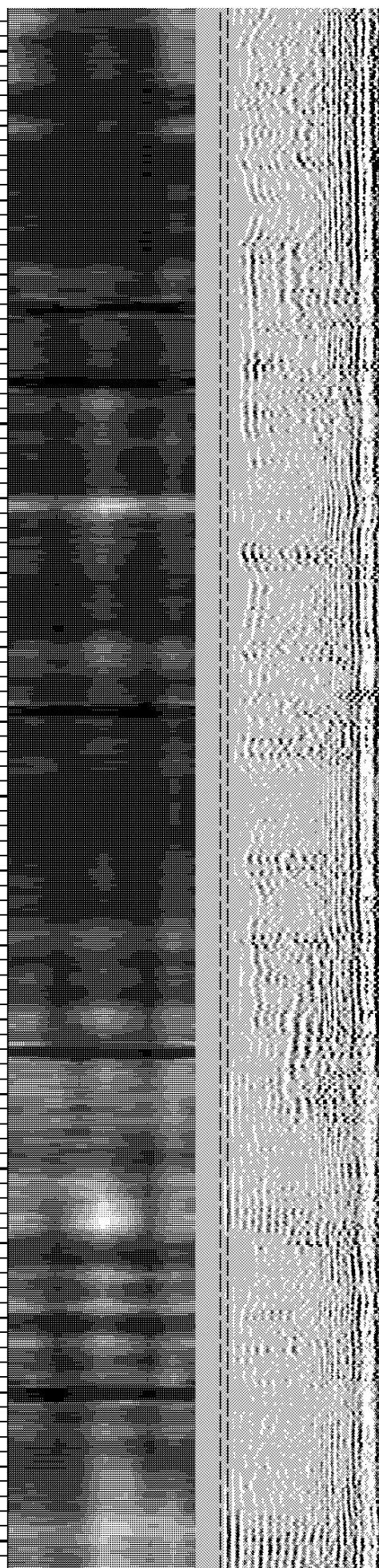
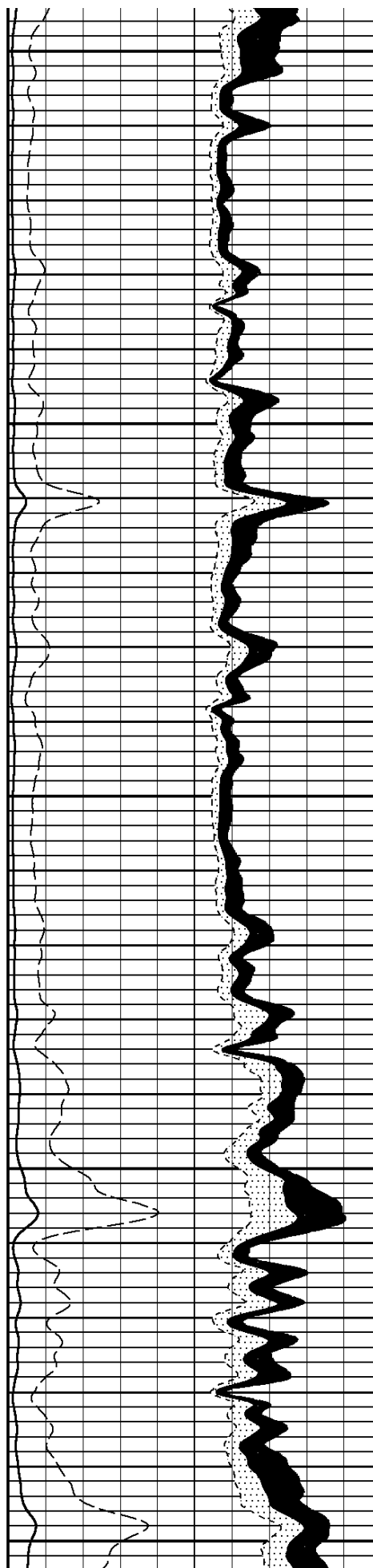
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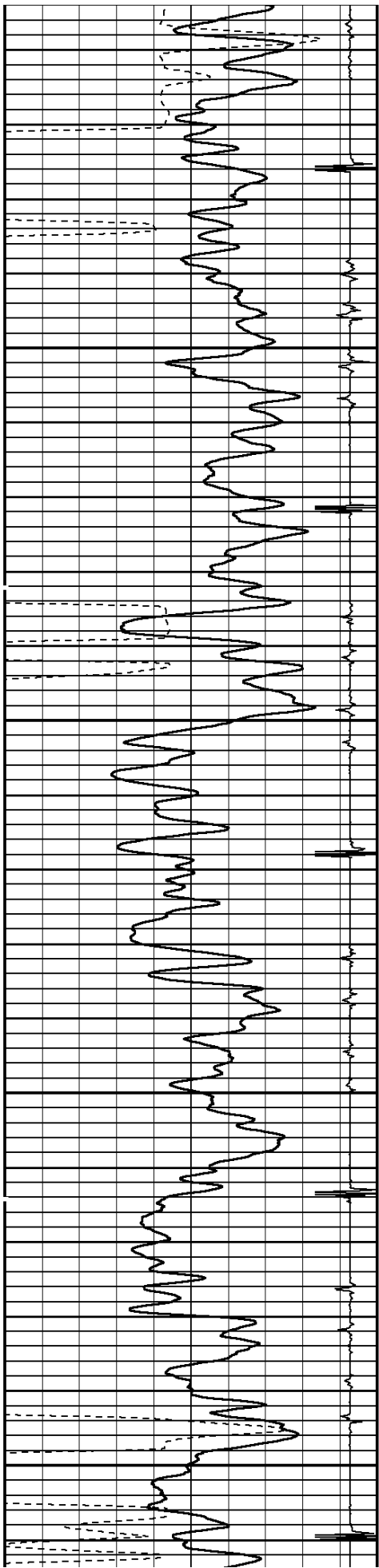




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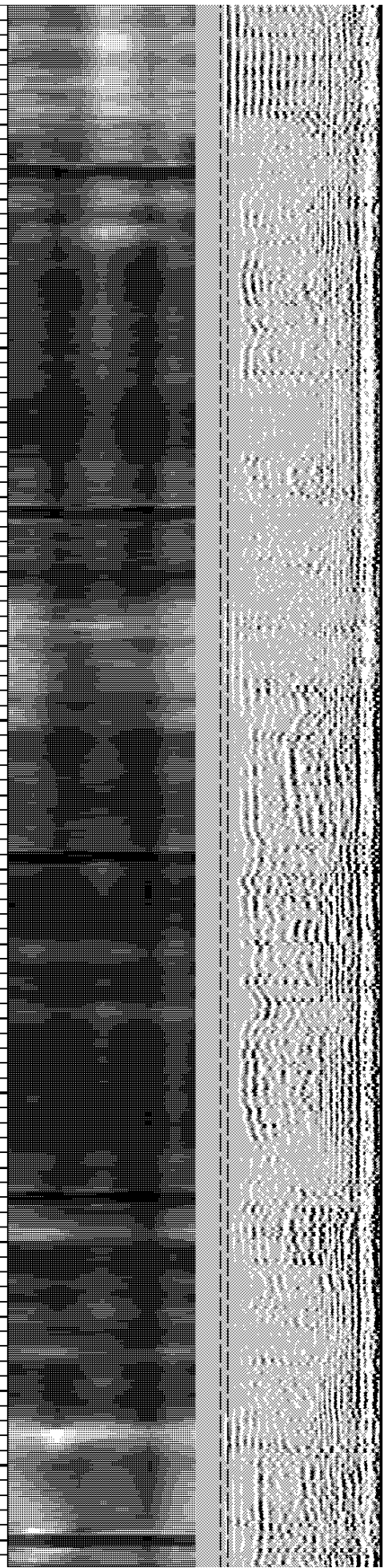
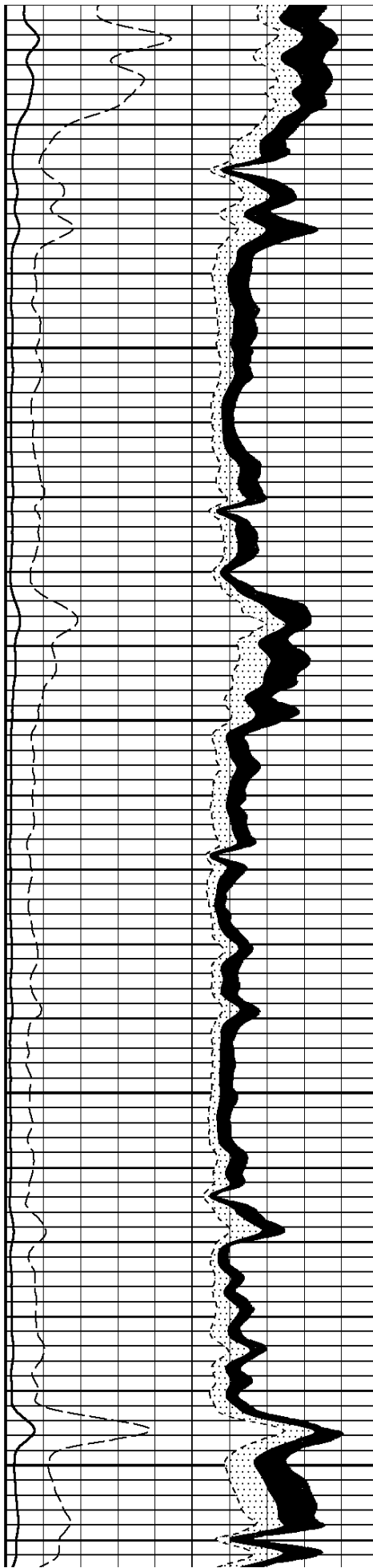
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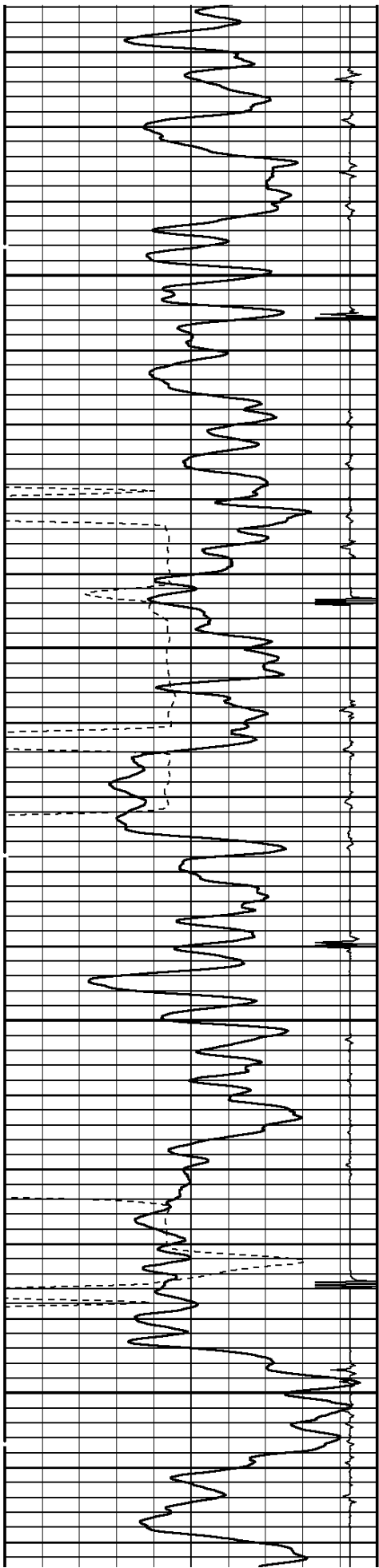




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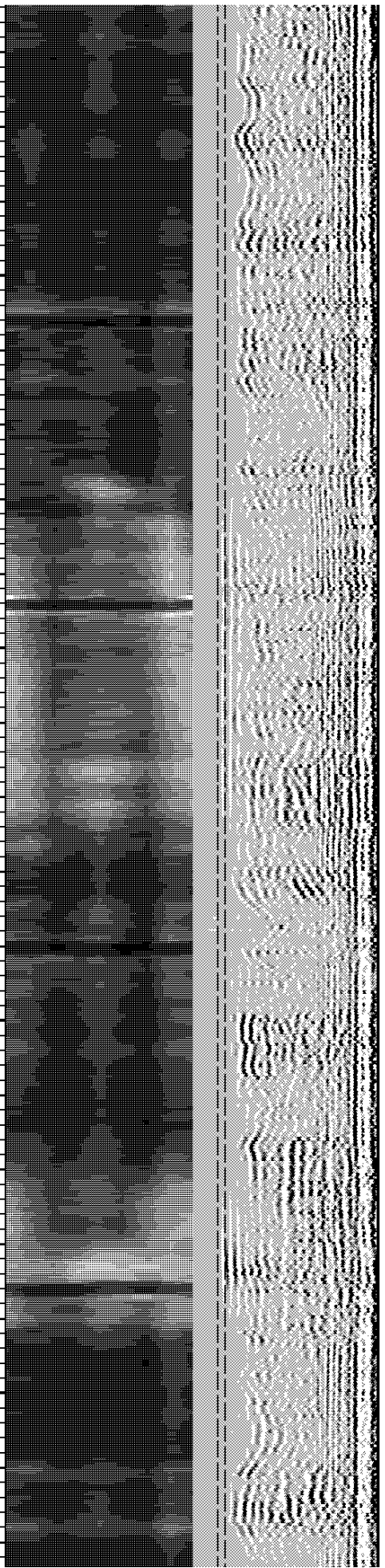
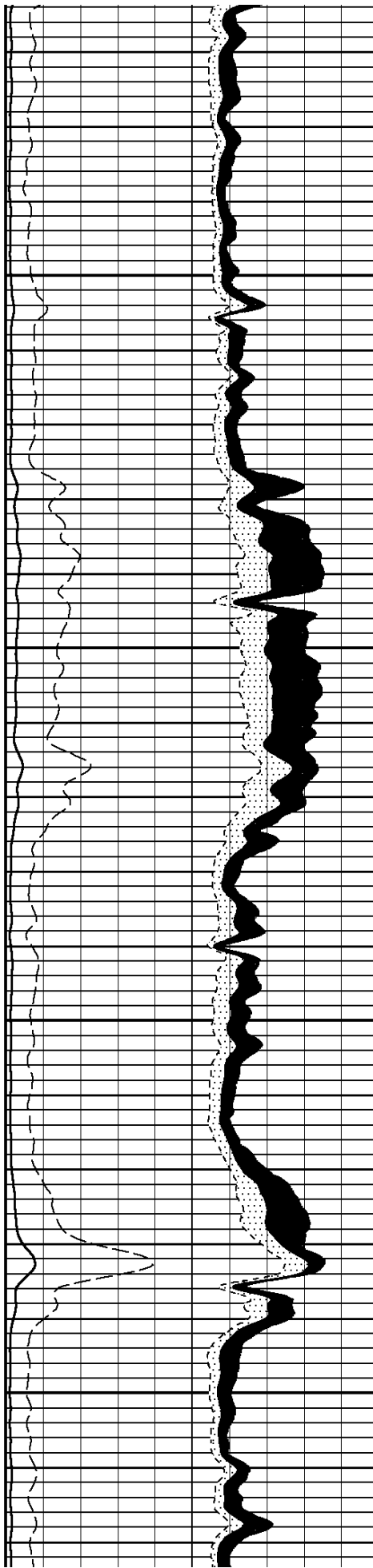
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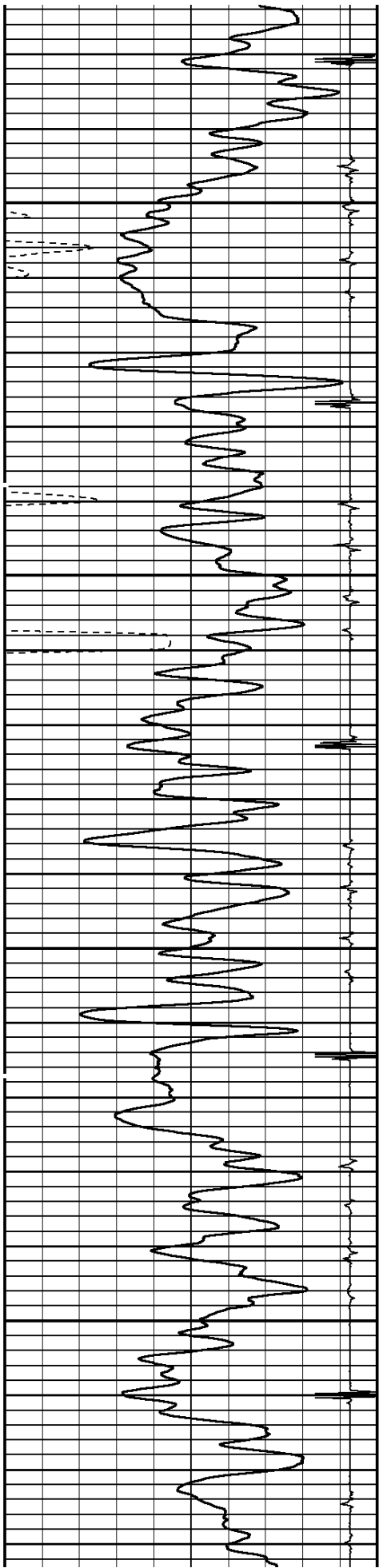


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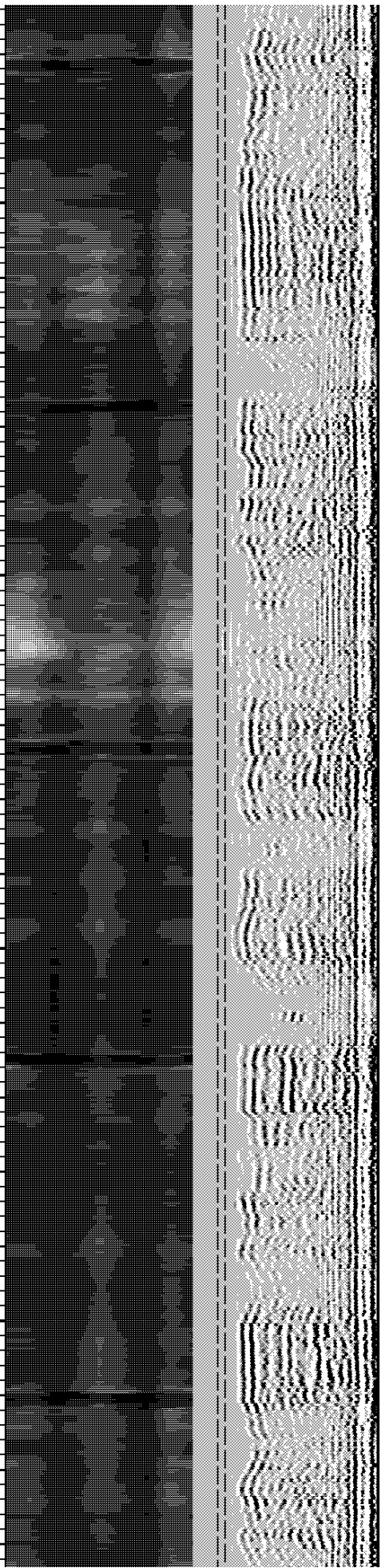
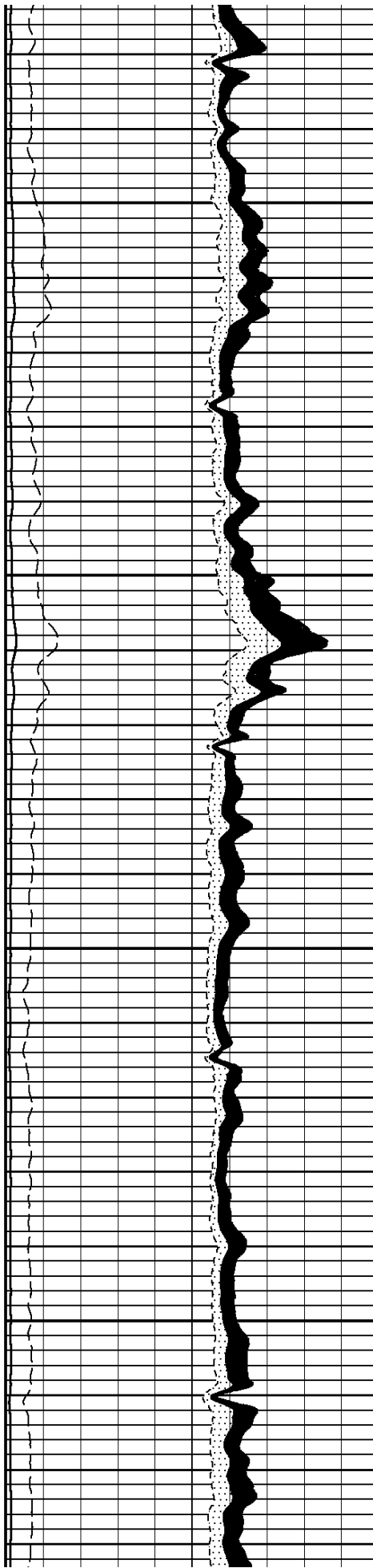


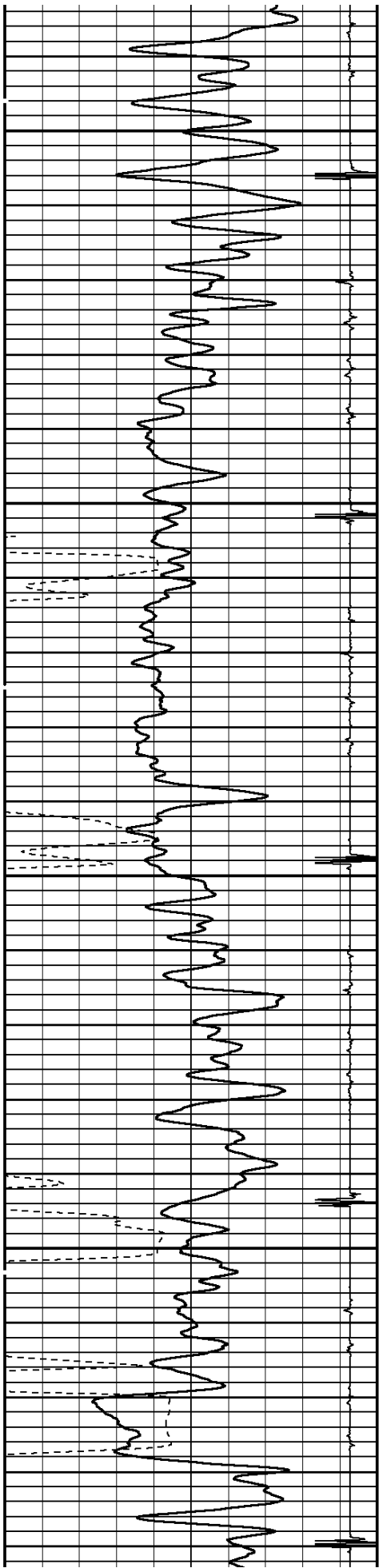




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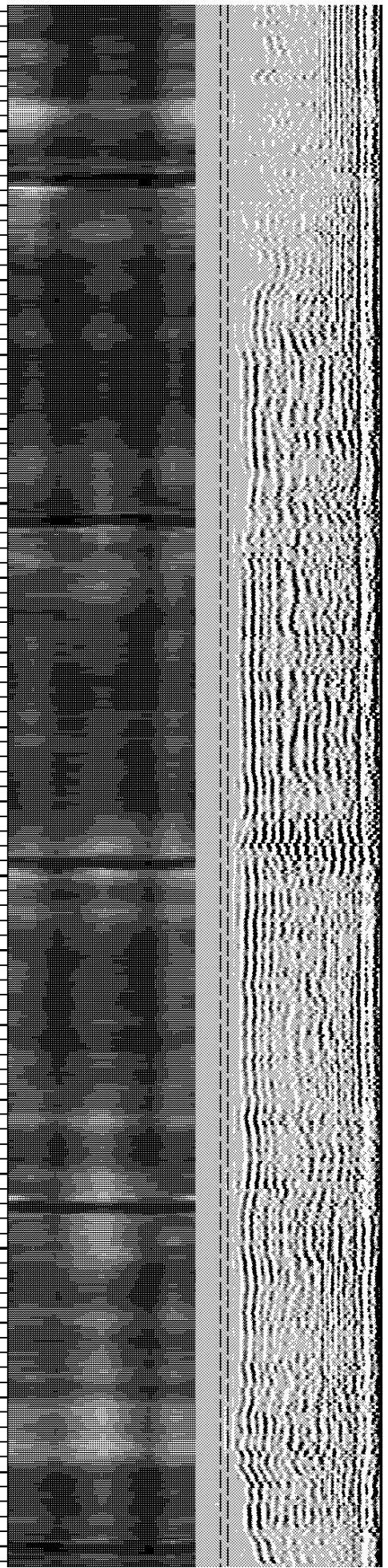
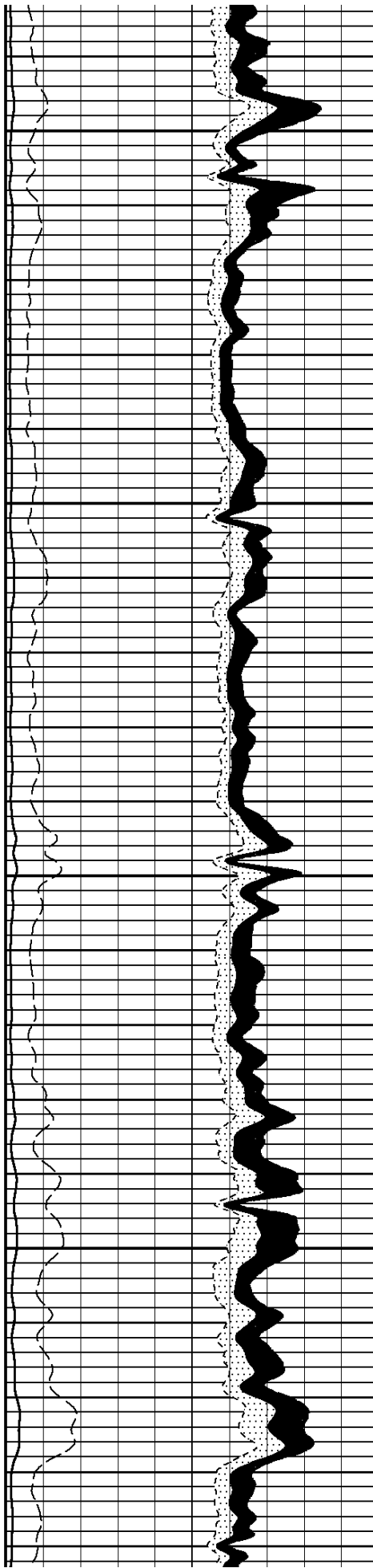
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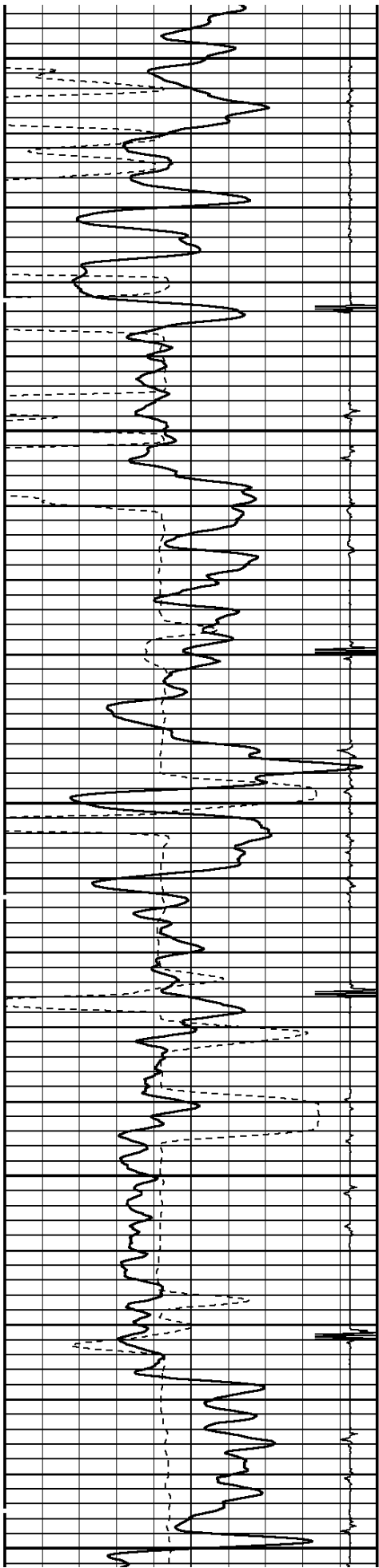




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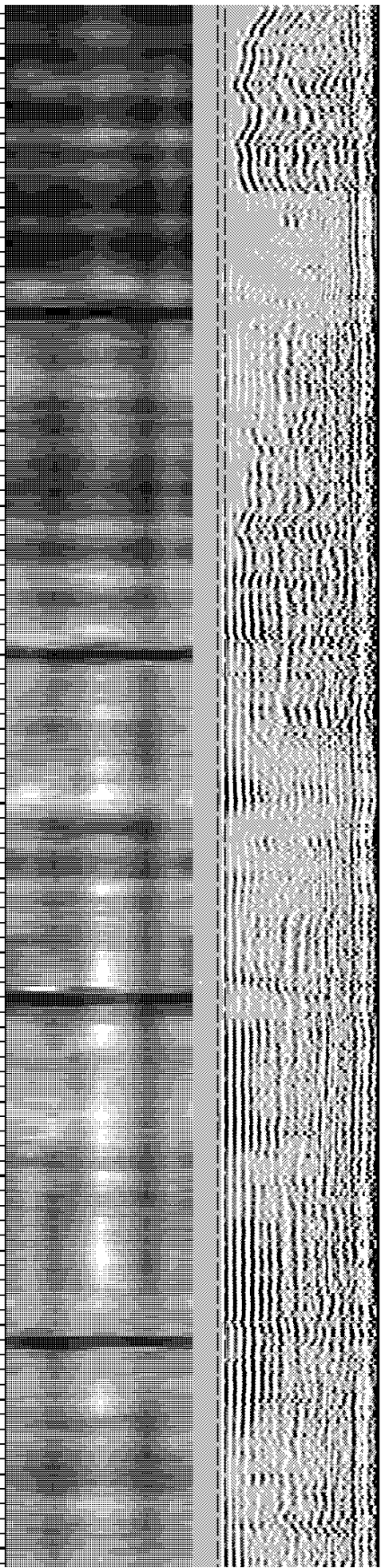
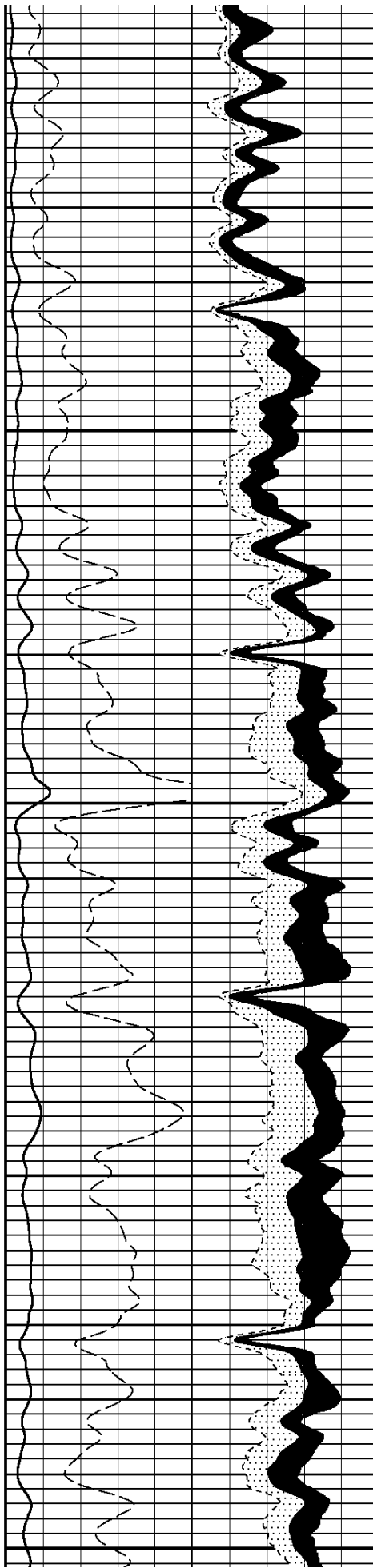


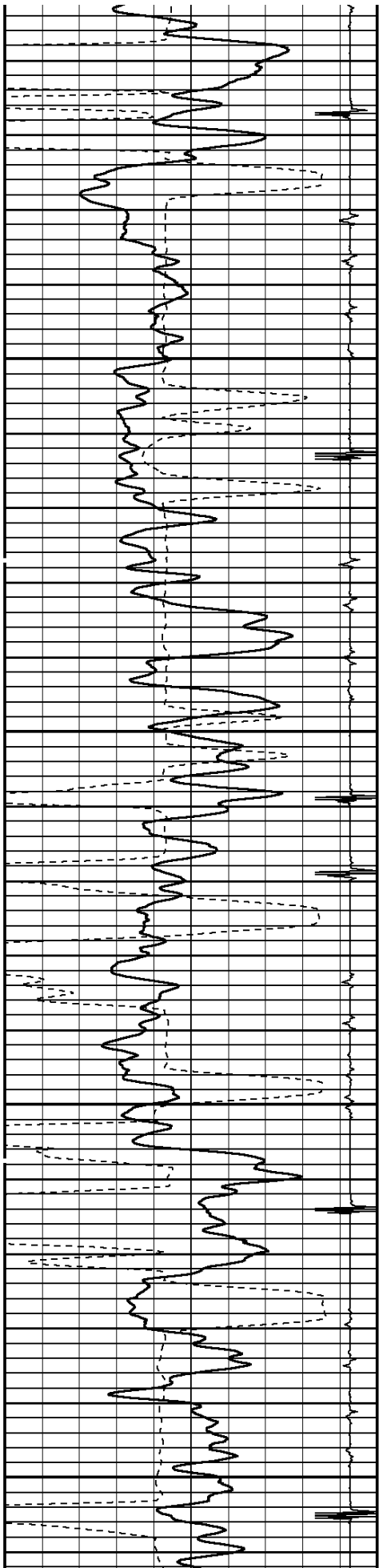


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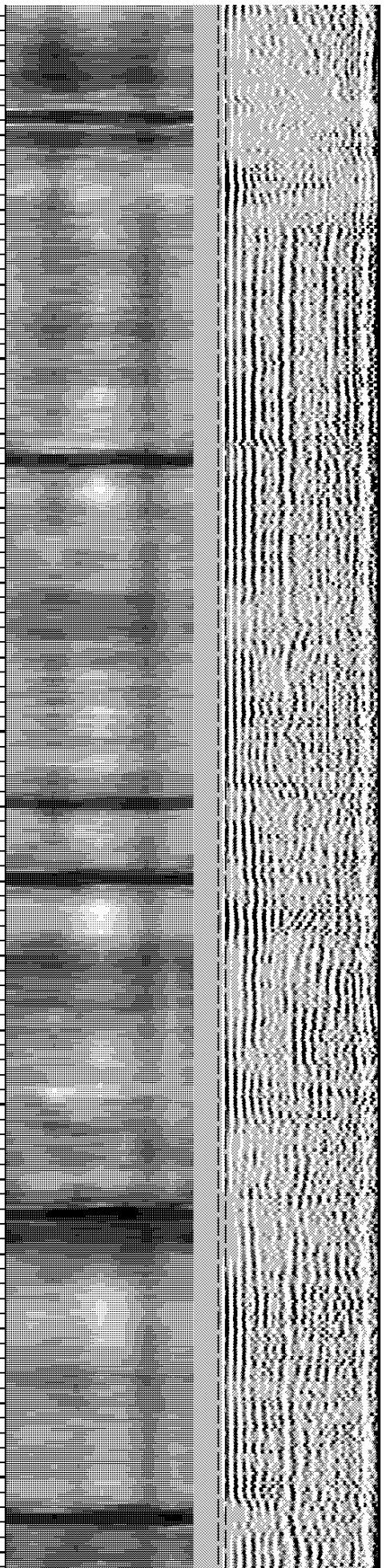
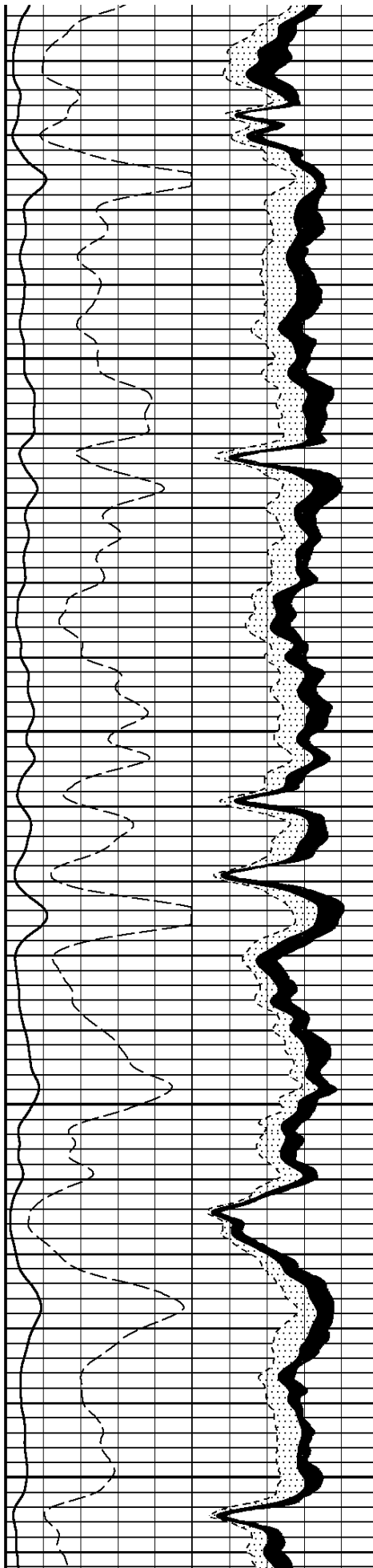
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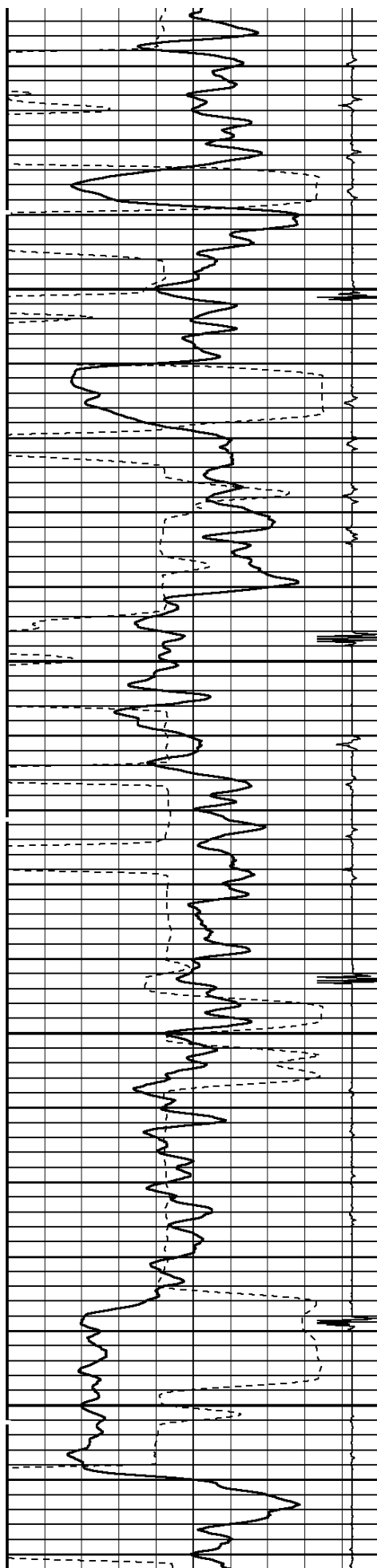




6400

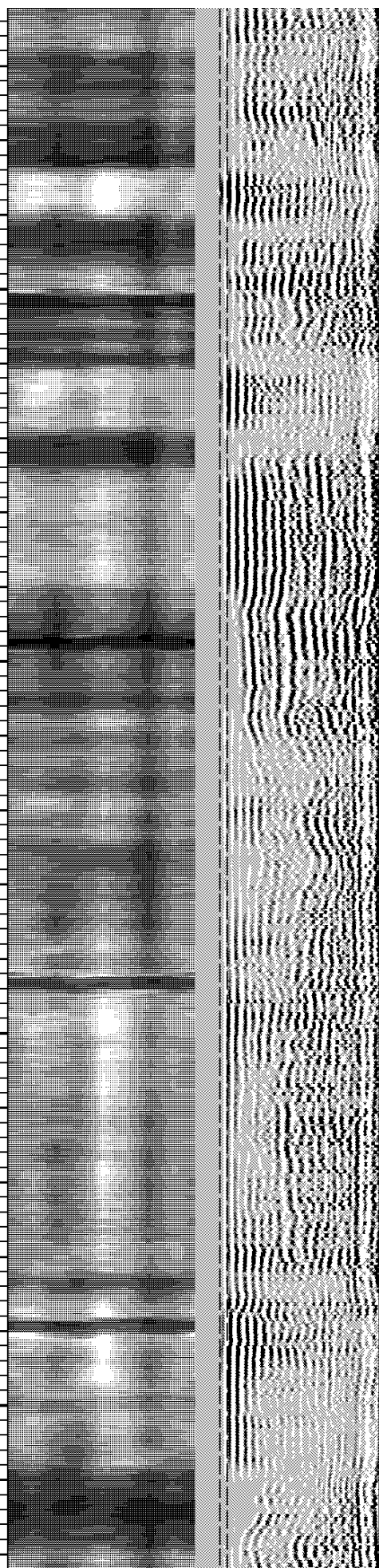
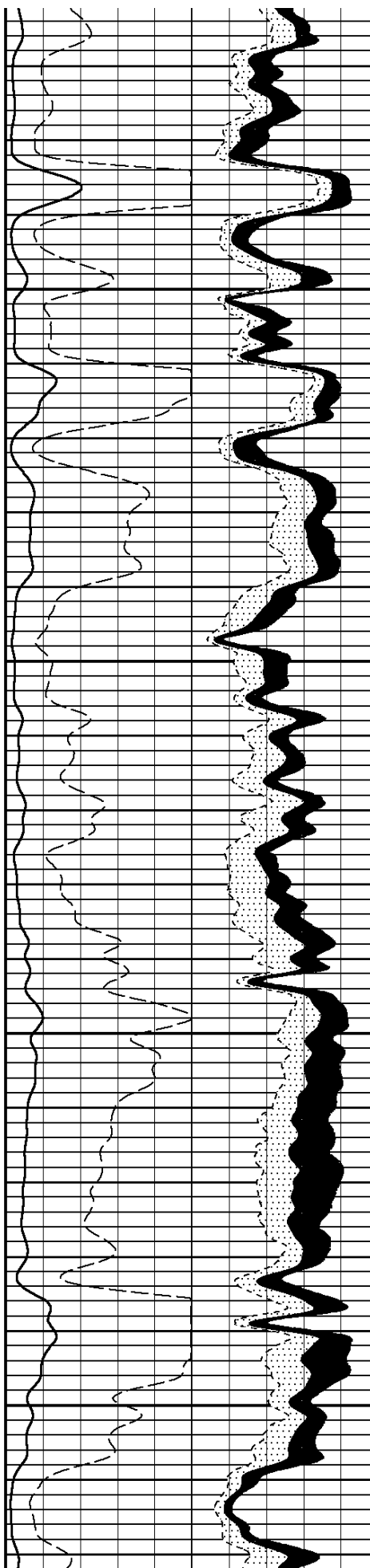
6500

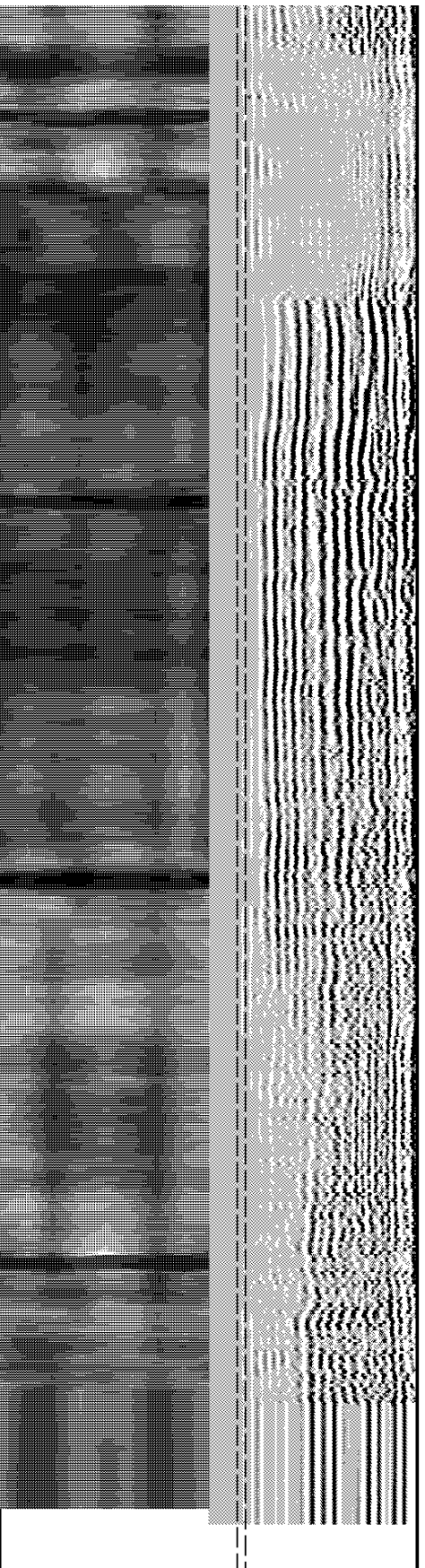
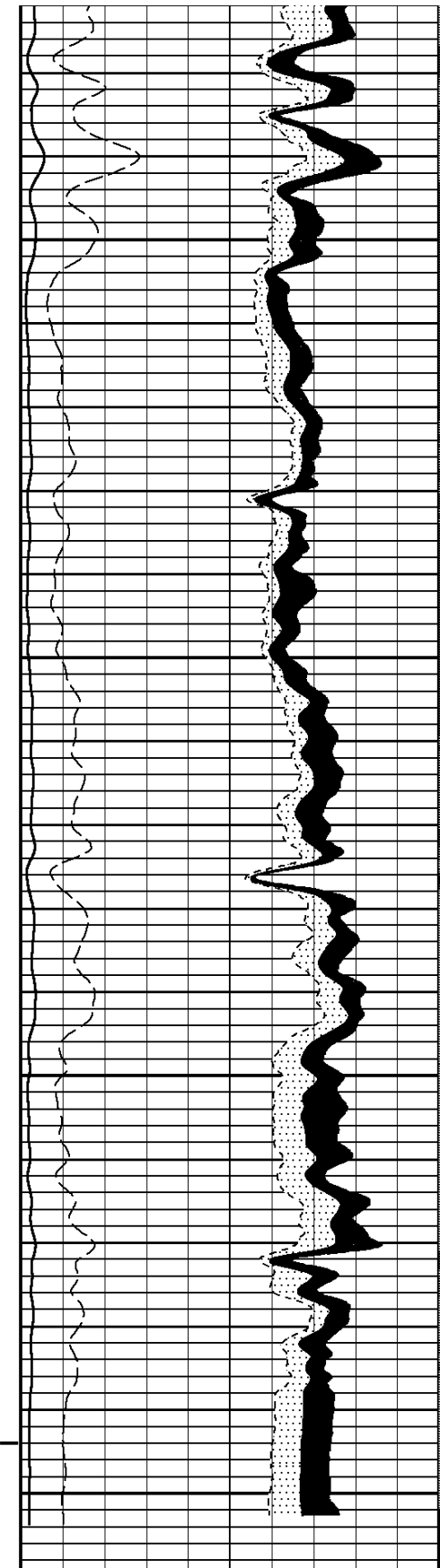
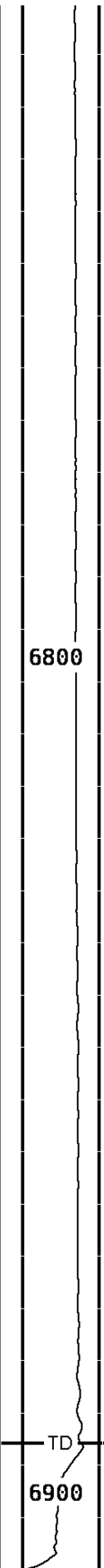
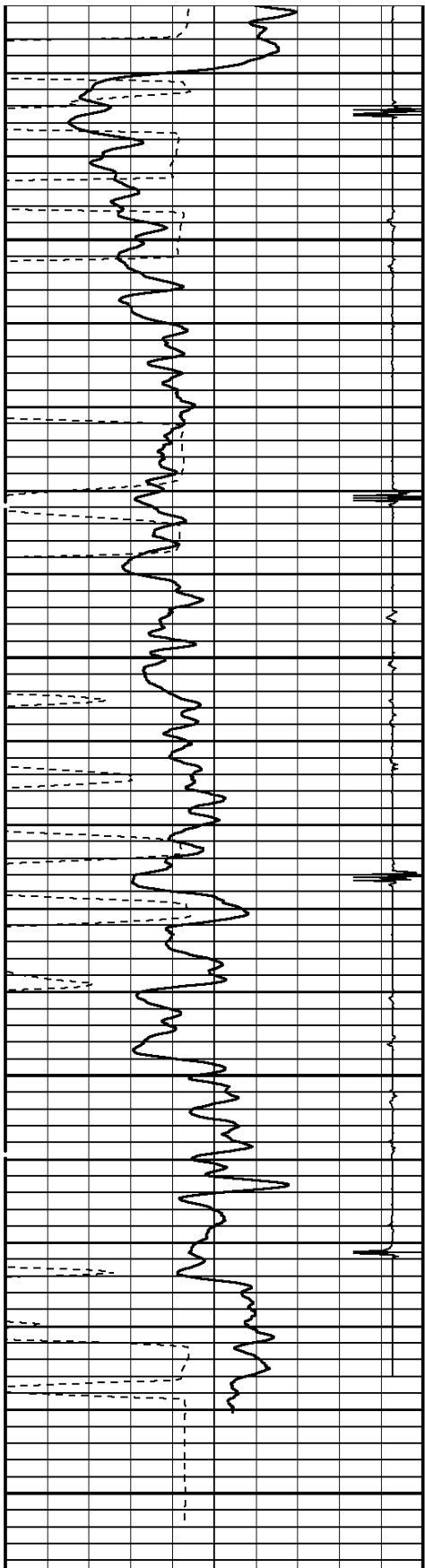




6600

6700





TRAVEL TIME 3FT			Tension		AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERG		VARIABLE DENSI					
305	Microseconds	205	0	3000	0	mv	100	0	mv	100	0	mv	80	200	us	1200
Gamma Ray					AMPLITUDE 3FT		AVG ENERGY						FREE PIPE GATE			
0	FT	150	0	500	0	mv	20	0	mv	100	0	mv	80	200	us	1200

0	API	150	0	mv	20	0	mv	100	200	us	1200
Collar Locator						MAX ENERGY			FREE PIPE GATE		
-1800	Millivolts	140				0	mv	100	200	us	1200

START DEPTH: **6909.2**    DIRECTION: **UP**    DATE: **04/21/2014**    TIME: **15:37**    MODE: **ORIGINAL**  
 RECOMPUTED    DATE: **04/21/2014**    TIME: **15:37**

85276007 SBTMFF

MAIN PASS

DEPTH SCALE: **5":100'** LOGGED VERSION: **2012.07.18.162"**

REMARKS

LOGGED WITH 0 PSI @ SURFACE

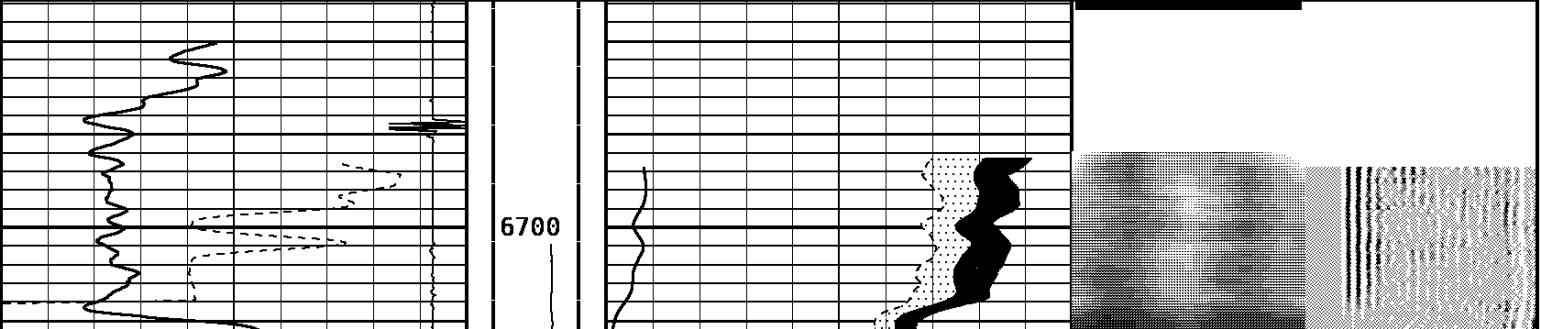
DEPTH SCALE: **5":100'** PROCESSED VERSION: **2012.07.18.162"**

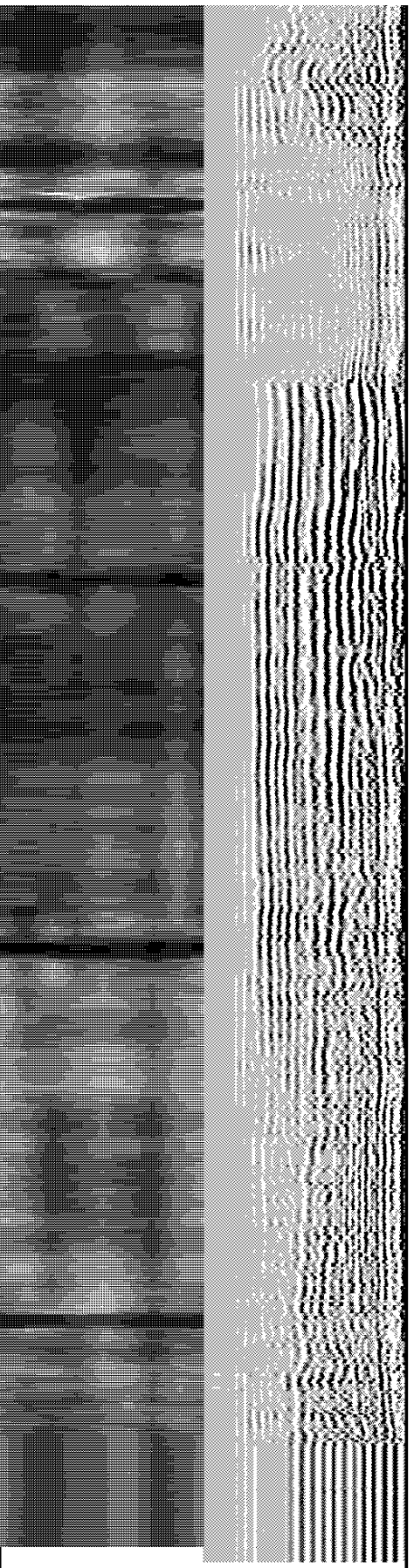
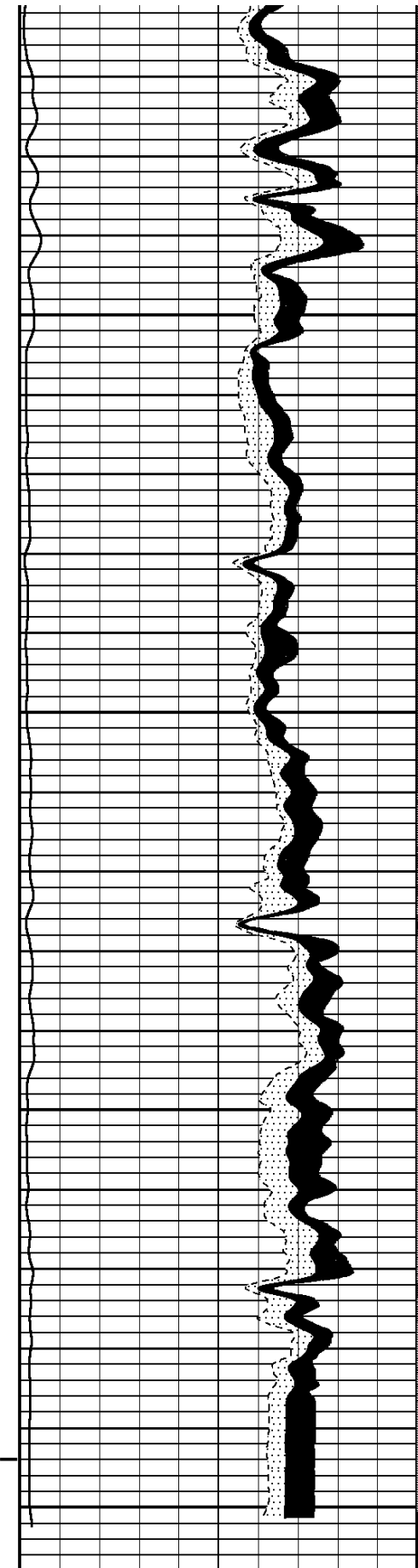
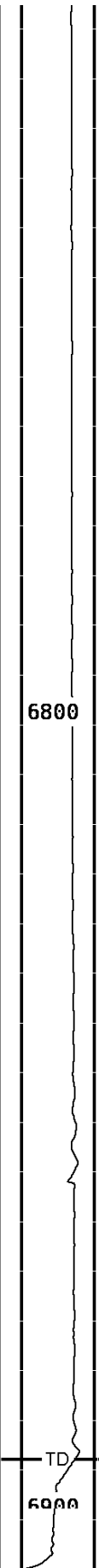
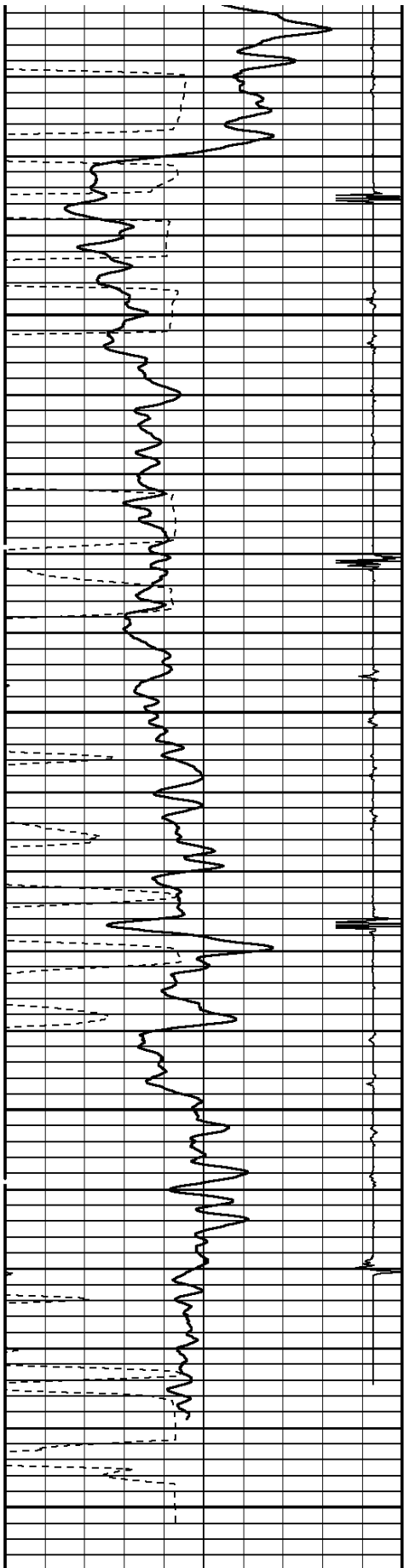
REPEAT PASS

85276007 SBTRF

FINISH DEPTH: **6699.0** Feet    DIRECTION: **UP**    DATE: **04/21/2014**    TIME: **15:34**    MODE: **ORIGINAL**  
 RECOMPUTED    DATE: **04/21/2014**    TIME: **15:34**

Collar Locator						MAX ENERGY					
-1800	Millivolts	140				0	mv	100			
Gamma Ray						AVG ENERGY					
0	API	150				0	mv	100			
TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT		MIN ENERGY			VARIABLE ENERGY	VARIABLE DENSI	
305	Microseconds	205	0	3000	0	mv	100	0	mv	80	200 us 1200





TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT			MIN ENERGY	VARIABLE ENER	VARIABLE DENSI						
305	Microseconds	205	0 3000	0	mv	100	0	mv	100	0	mv	80	200	us	1200



<b>Gamma Ray</b>			<b>AVG ENERGY</b>		
0	API	150	0	mv	100
<b>Collar Locator</b>			<b>MAX ENERGY</b>		
-1800	Millivolts	140	0	mv	100

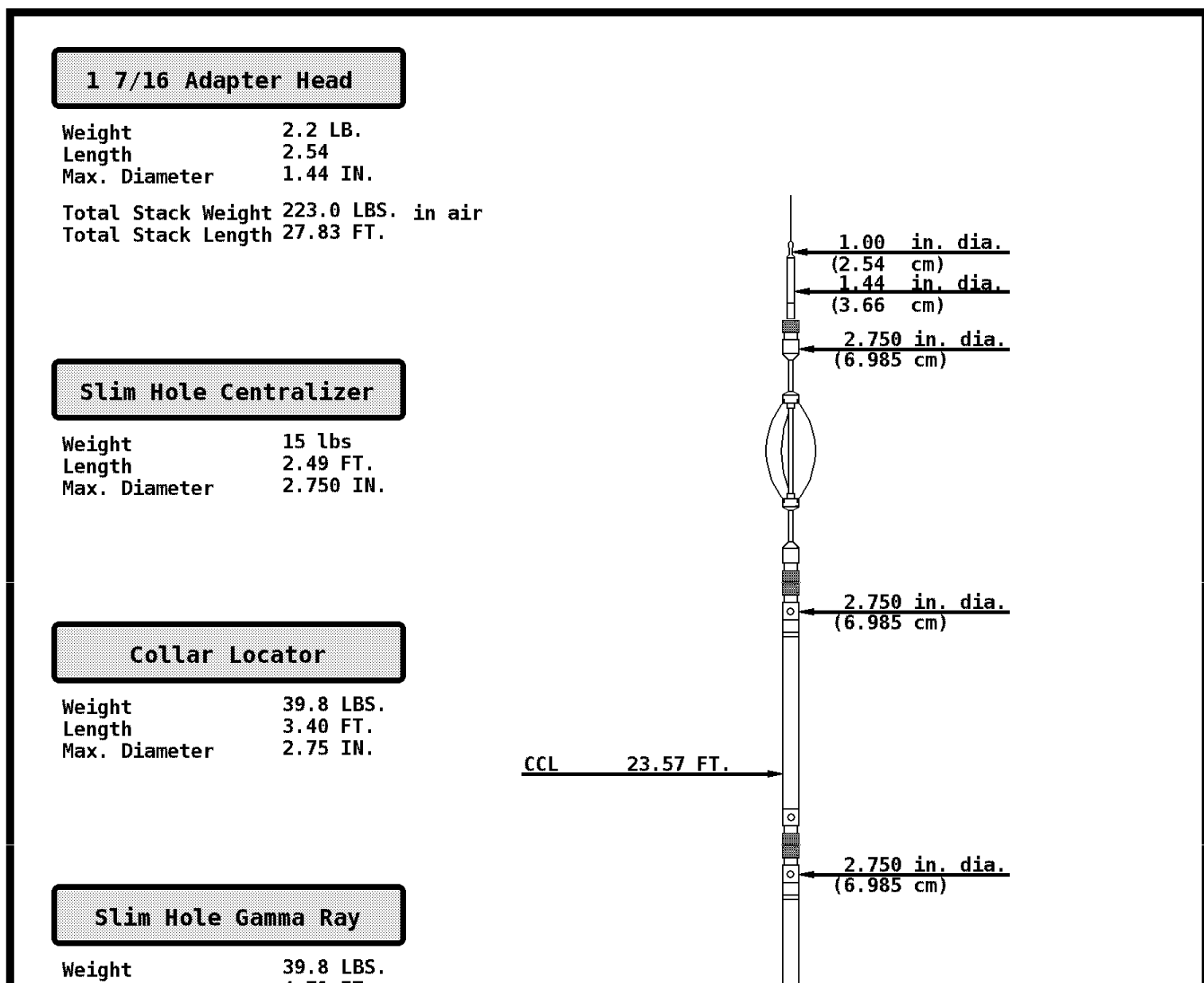
START DEPTH: **6907.9**    DIRECTION: **UP**    DATE: **04/21/2014**    TIME: **15:34**    MODE: **ORIGINAL**

RECOMPUTED    DATE: **04/21/2014**    TIME: **15:34**

**85276007 SBTRF**

**REPEAT PASS**

DEPTH SCALE: **5":100'** LOGGED VERSION: **2012.07.18.162"**



Length 4.71 FT.  
Max. Diameter 2.750 IN.

### Slim Hole Centralizer

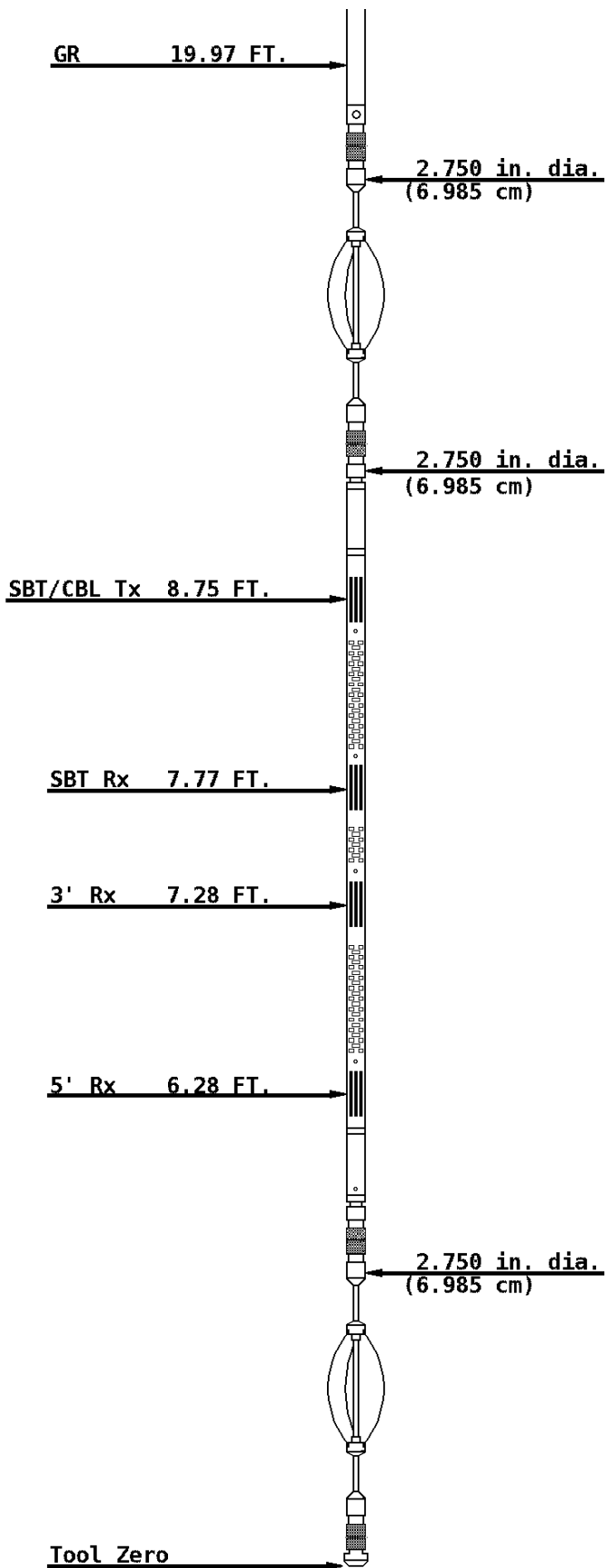
Weight 22 LBS.  
Length 3.08 FT.  
Max. Diameter 2.750 IN.

### 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.



WELL      FREI A-10

FIELD      GRAVEL TREND

COUNTY      GARFIELD

STATE      COLORADO



**Weatherford®**