



SECTOR BOND LOG

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 CRANE #15002	Service Order # 103089986
LOG WAS CORRELATED TO WEATHERFORD PULSED NEUTRON DECAY LOG DATED 14-NOV-2014		BHT 182 °F
ALL LOGGED INTERVALS PER CUSTOMER REQUEST		

Prints: 2

THANK YOU FOR CHOOSING WEATHERFORD WIRELINE SERVICES CASPER, WY

		EQUIPMENT DATA			
Bit Size	7.875	Run No.	Tool Type	Tool No.	Other
Well Status	NEW DRILL	ONE	CENA	229	
Surface Pressure		ONE	CTBA	323	
Shut In	Flowing	ONE	GRBA	317	
		ONE	CENB	153	
		ONE	SBTA	237	
		ONE	CENA	220	

DEPTH SCALE: 5":100'

PROCESSED VERSION: 2012.07.18.162"

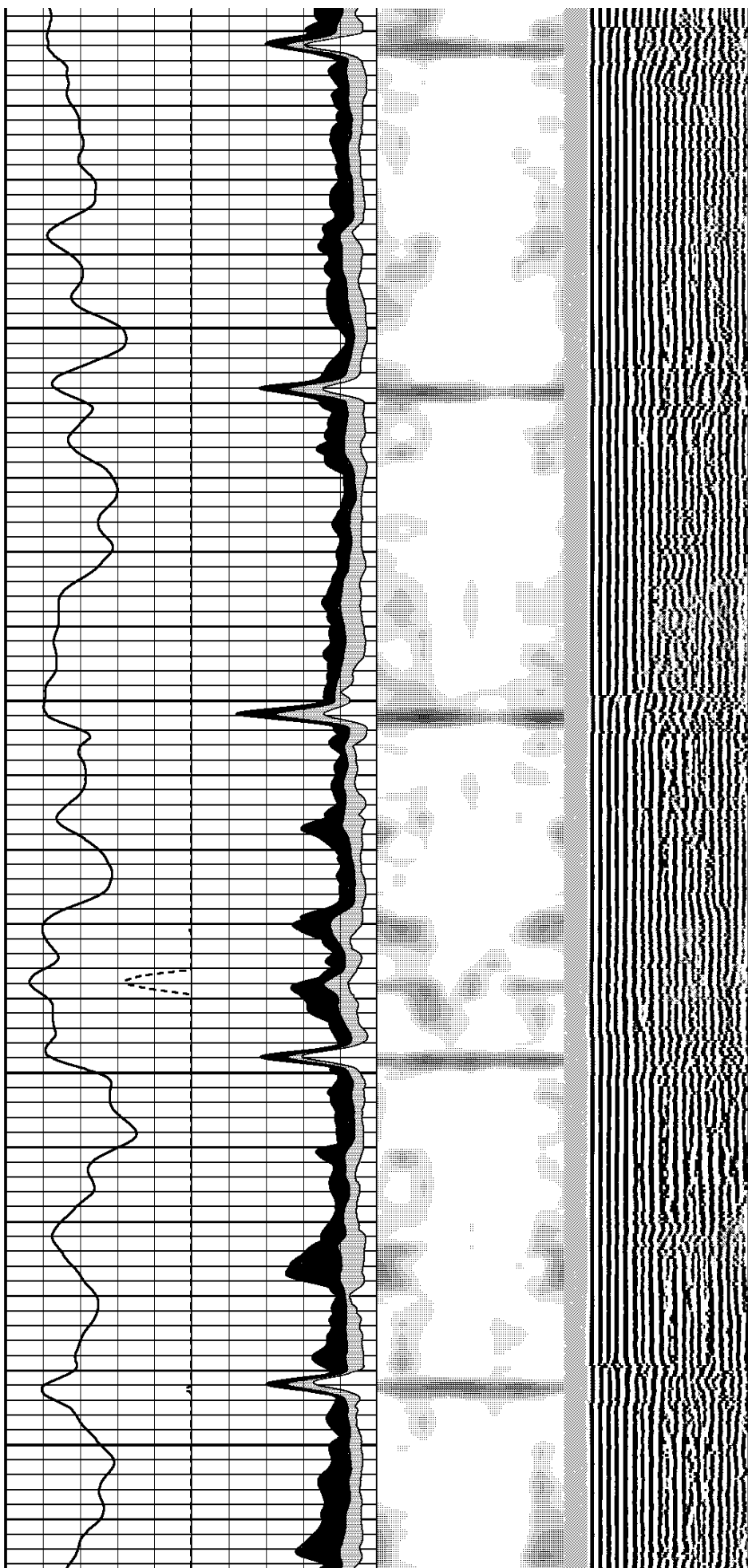
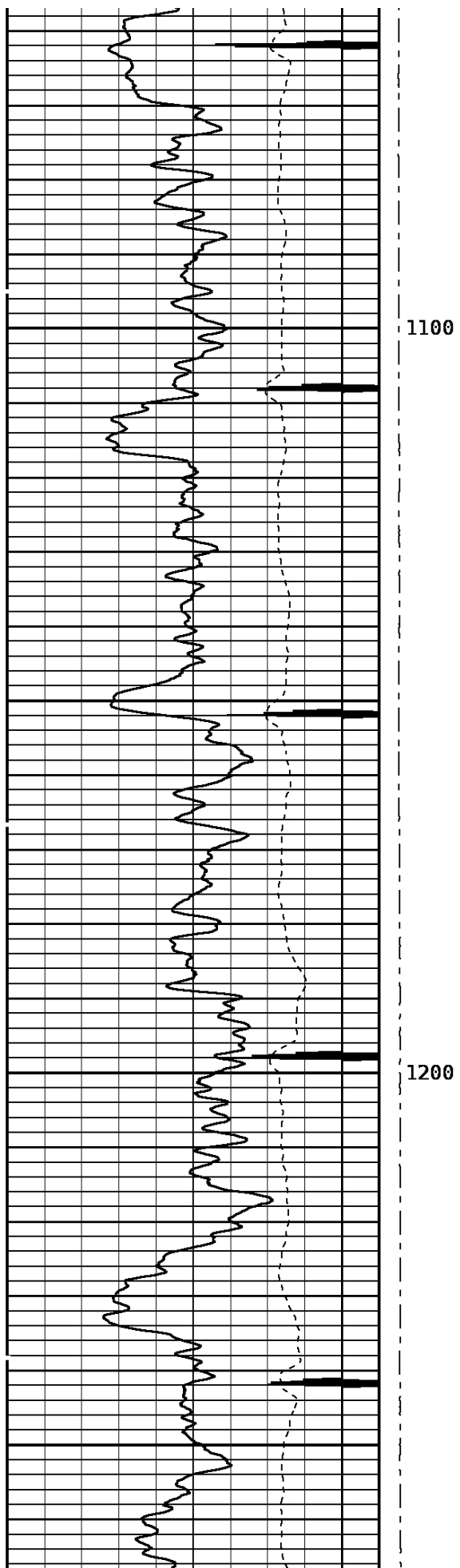
MAIN PASS

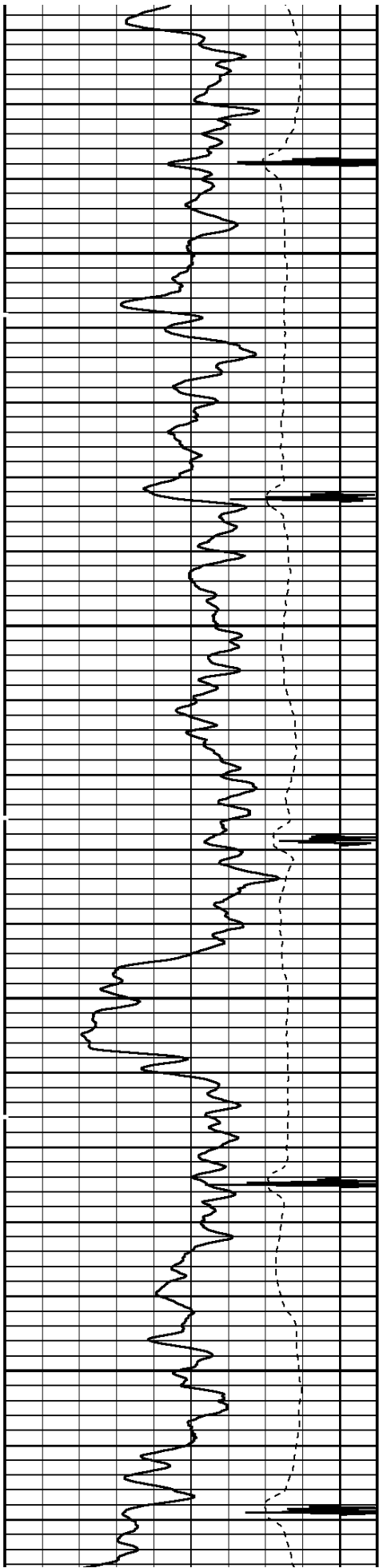
103089654 CBLMAIN

FINISH DEPTH: 979.8 Feet DIRECTION: UP DATE: 11/13/2014 TIME: 16:48 MODE: ORIGINAL

CCL			MAX ENERGY					
-3600	Millivolts	400	0	mv	100			
GAMMA RAY			AVG ENERGY					
0	API	150	0	mv	100			
TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT	MIN ENERGY	VARIABLE ENERG	VARIABLE DENSI	
305	Microseconds	205	0 2500	0 mv 100	0 mv 100	0 mv 80	200 us	1200

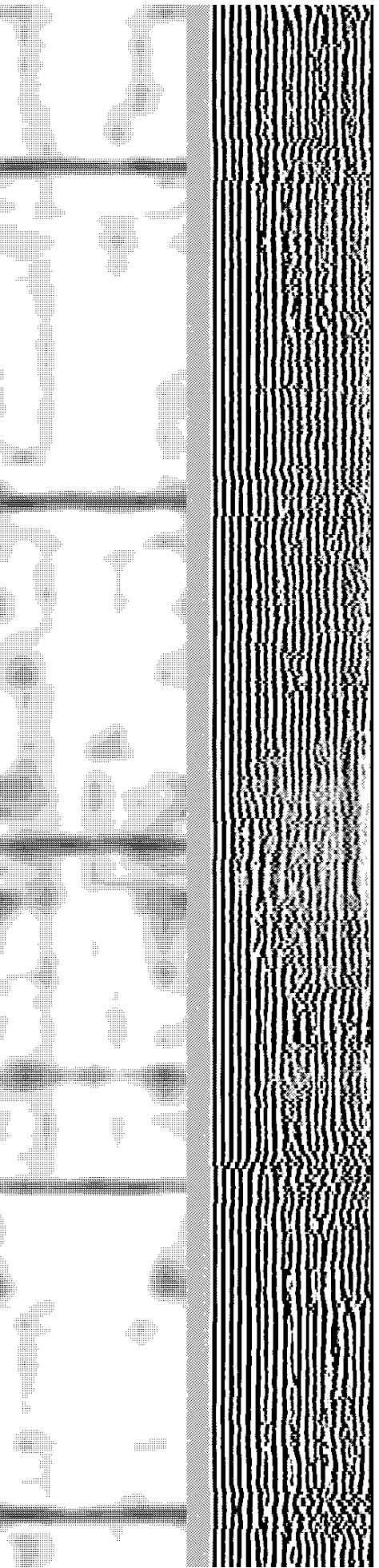
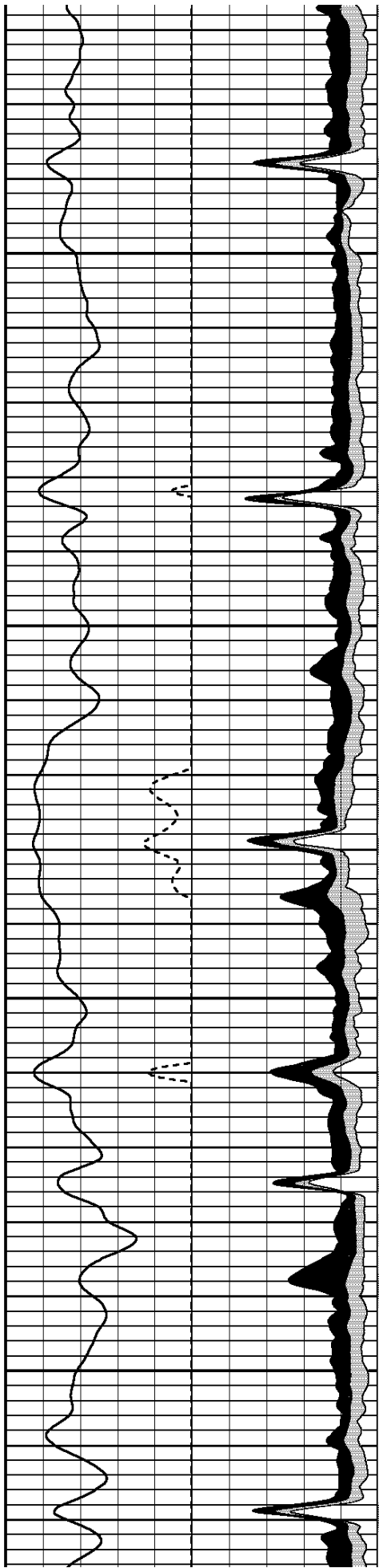


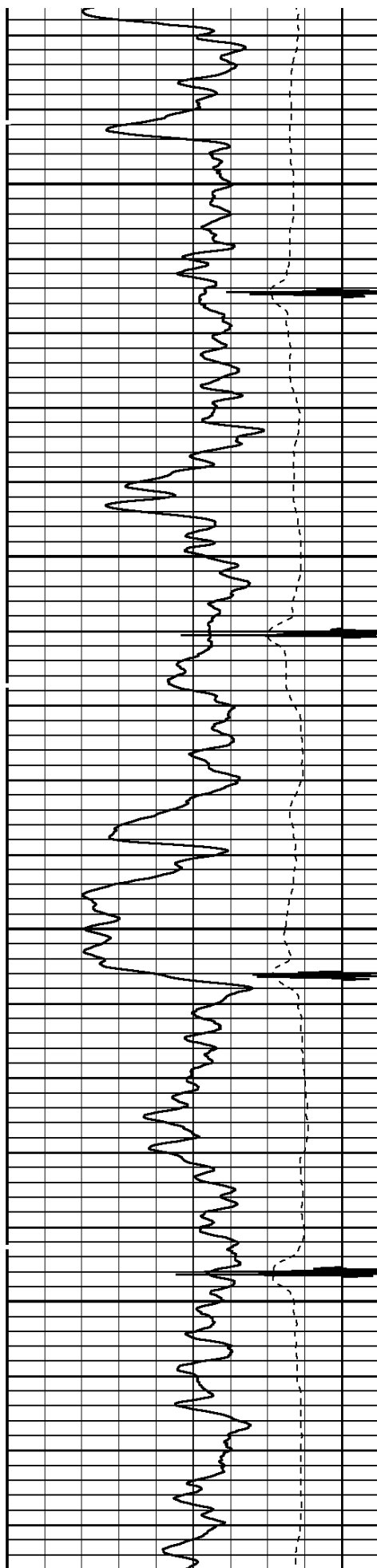




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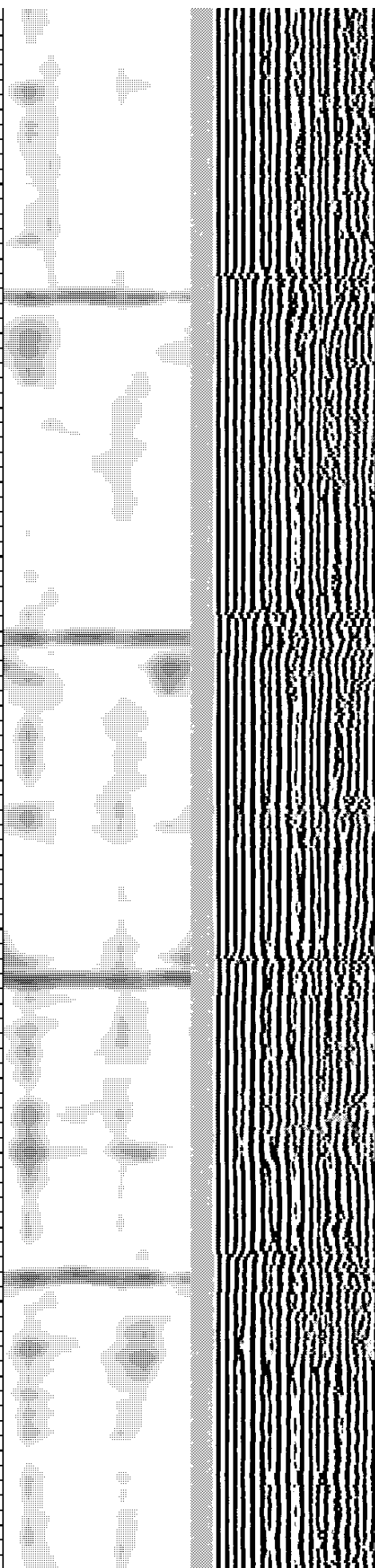
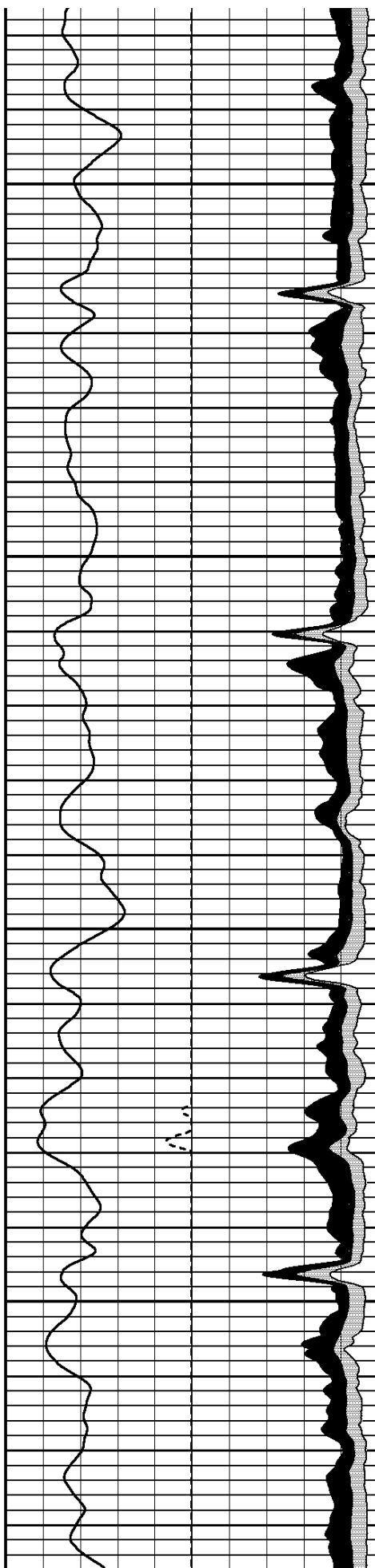
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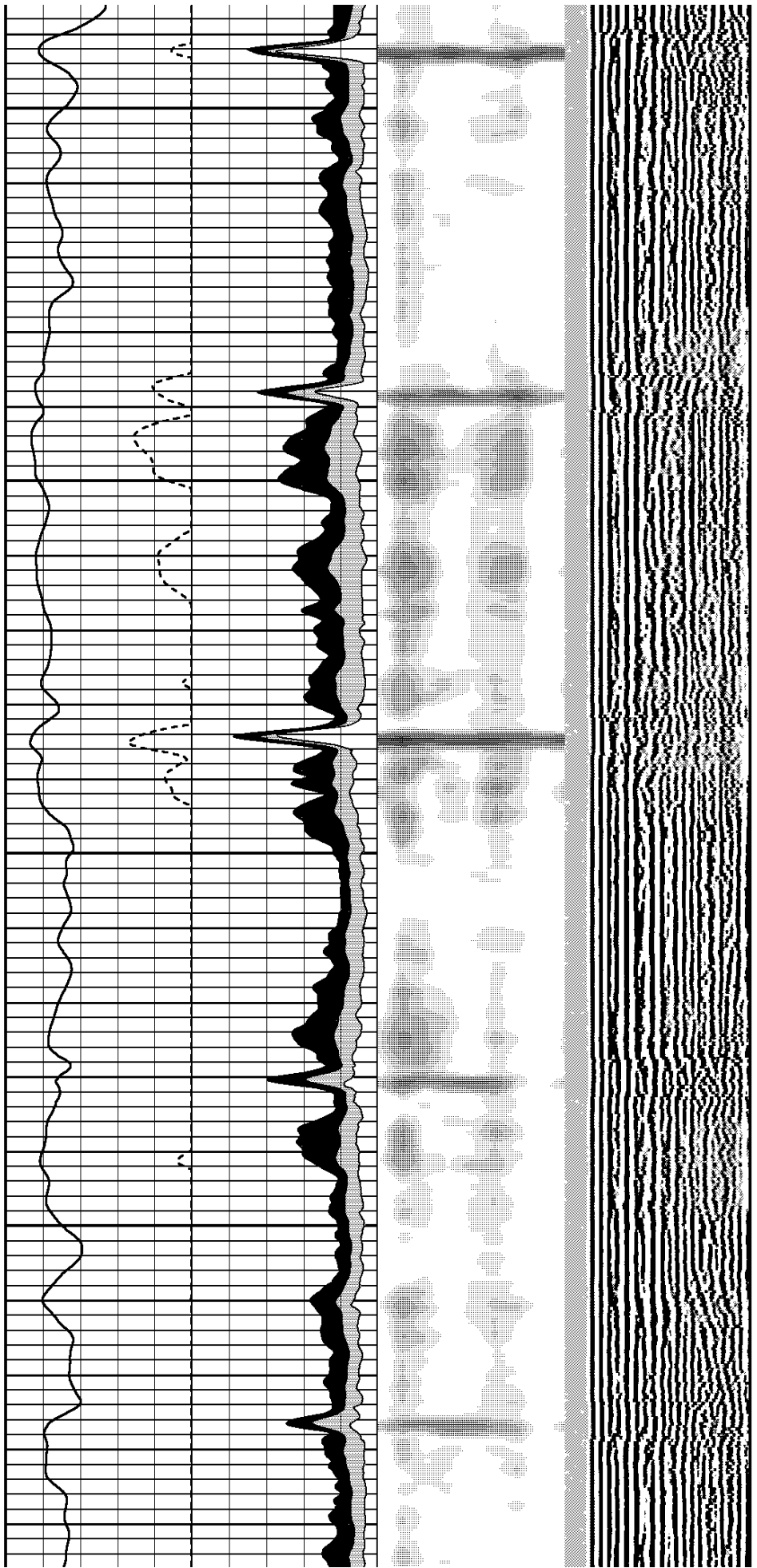
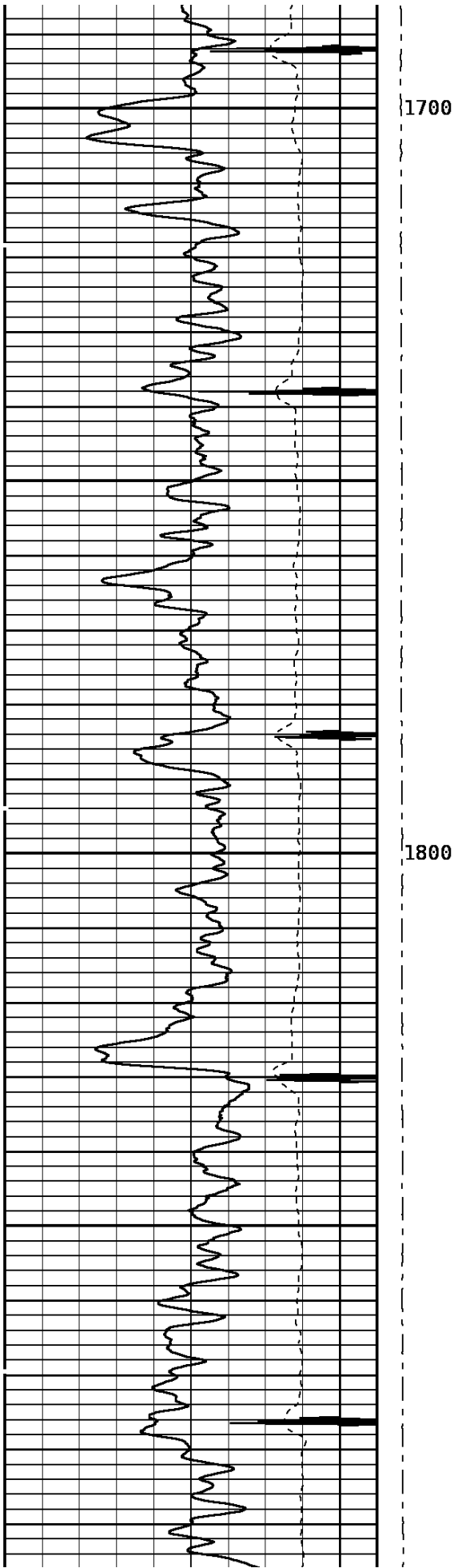


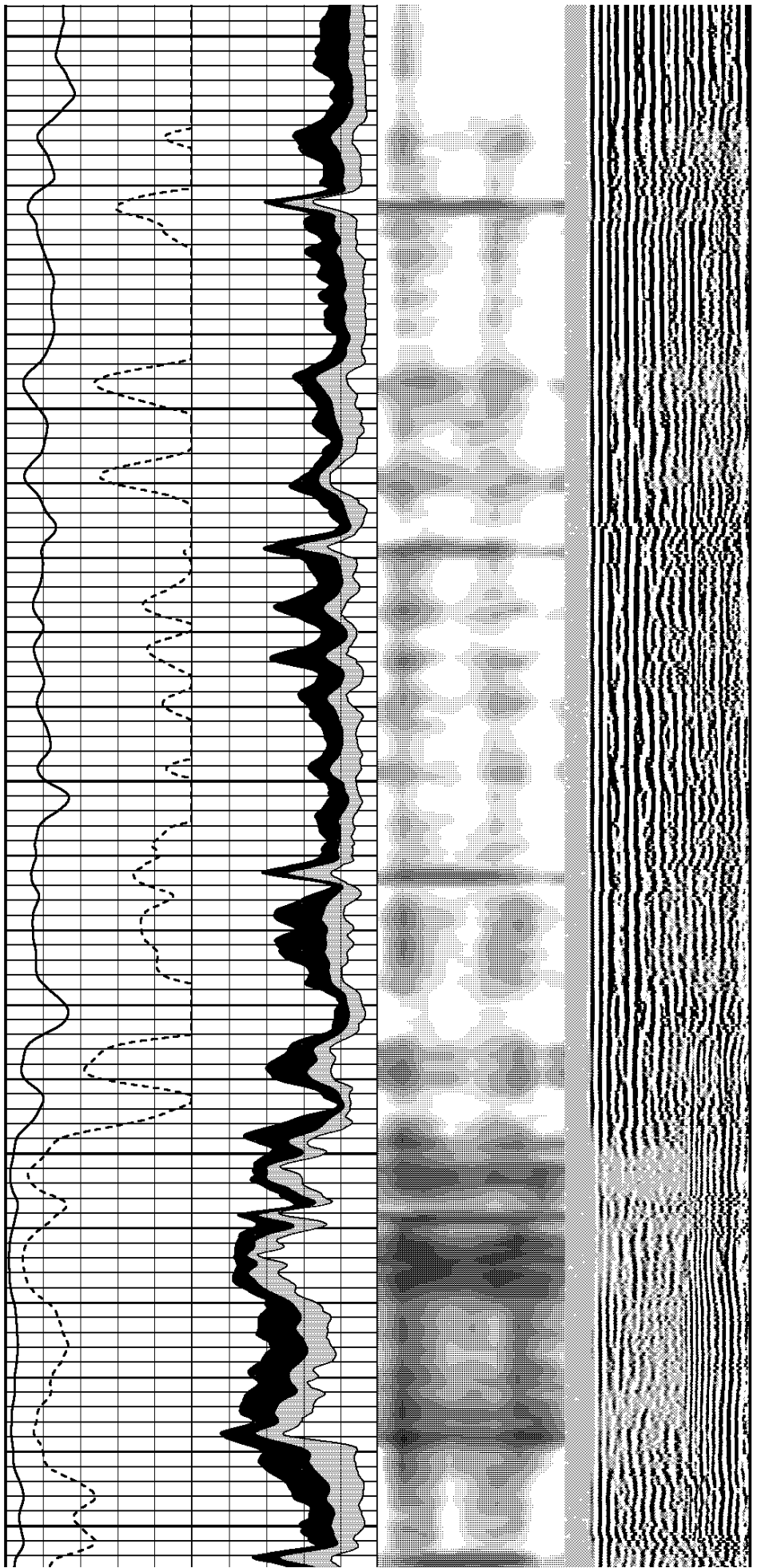
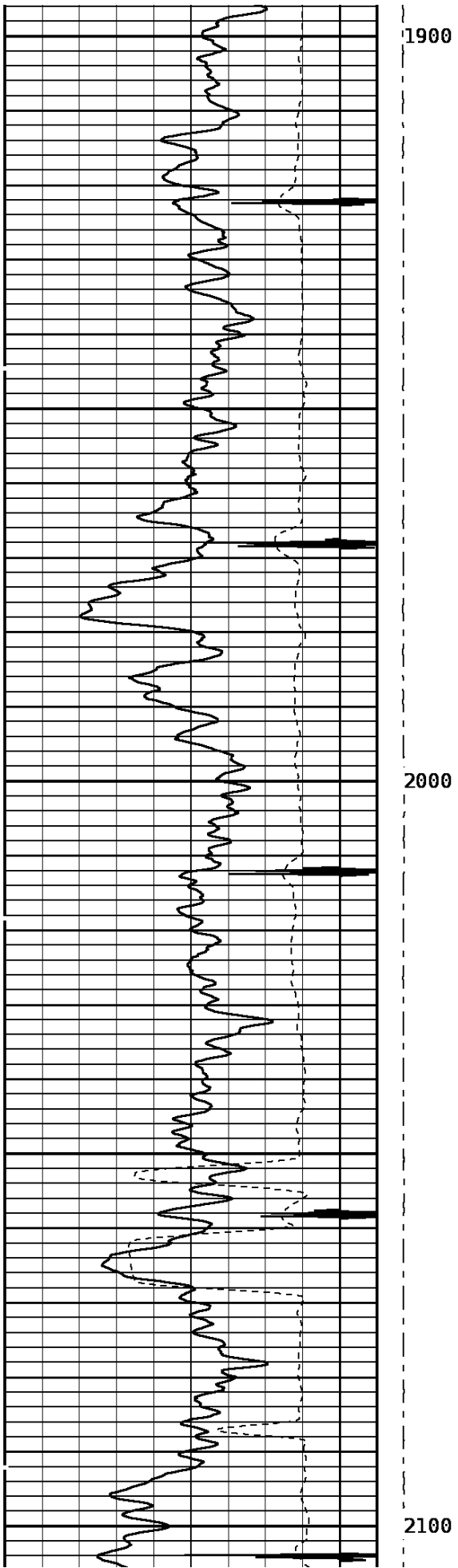


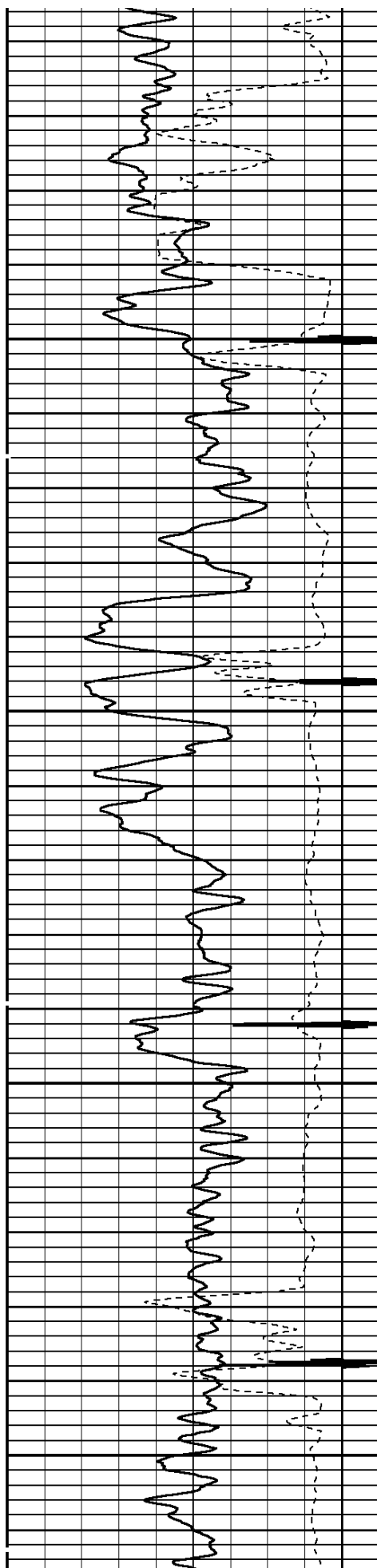
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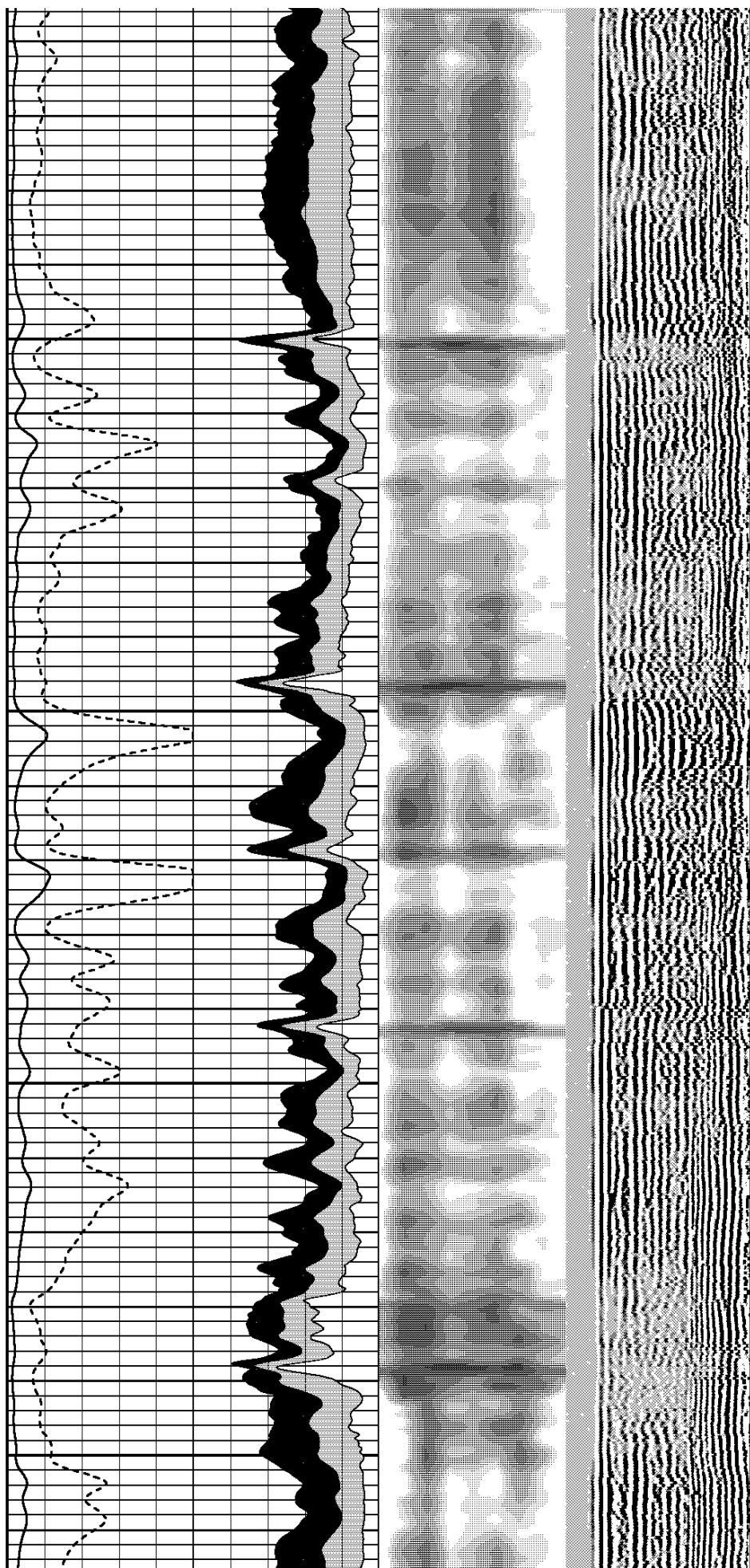


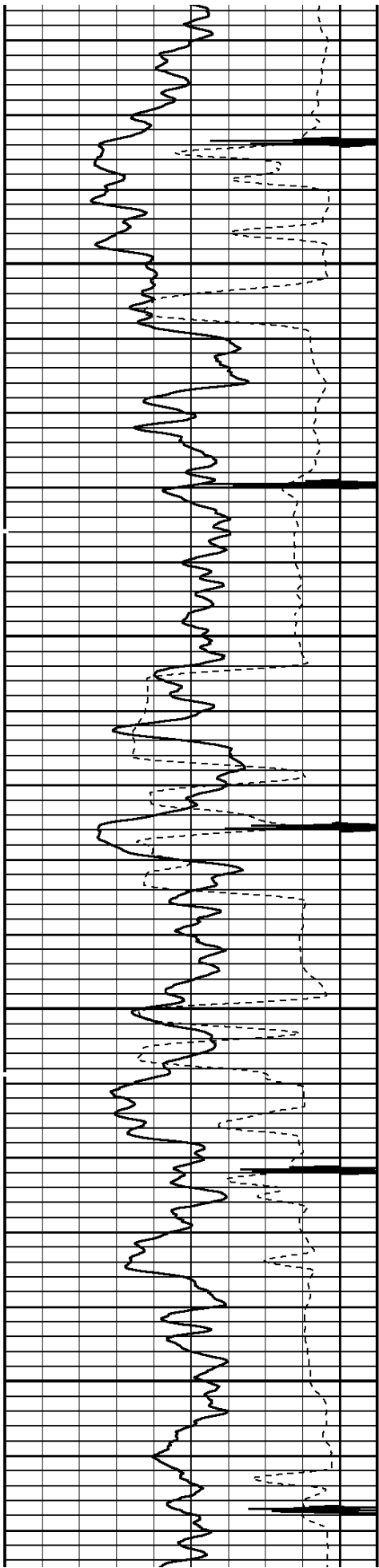




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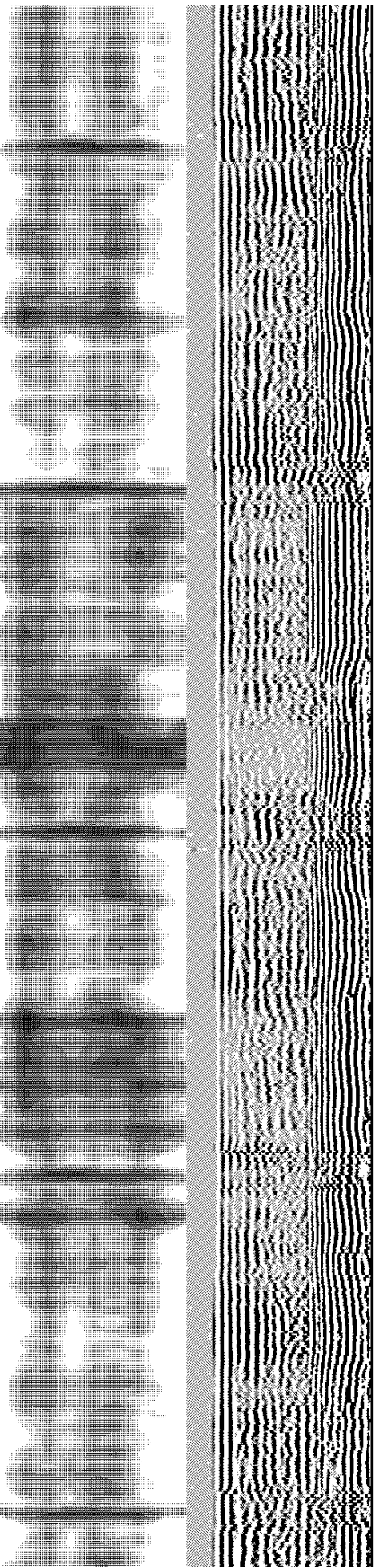
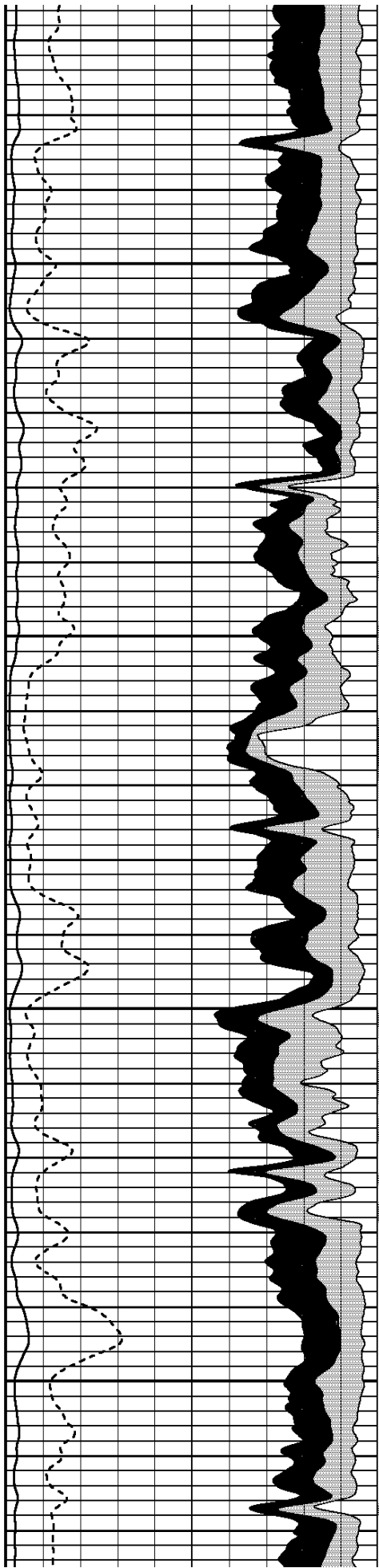
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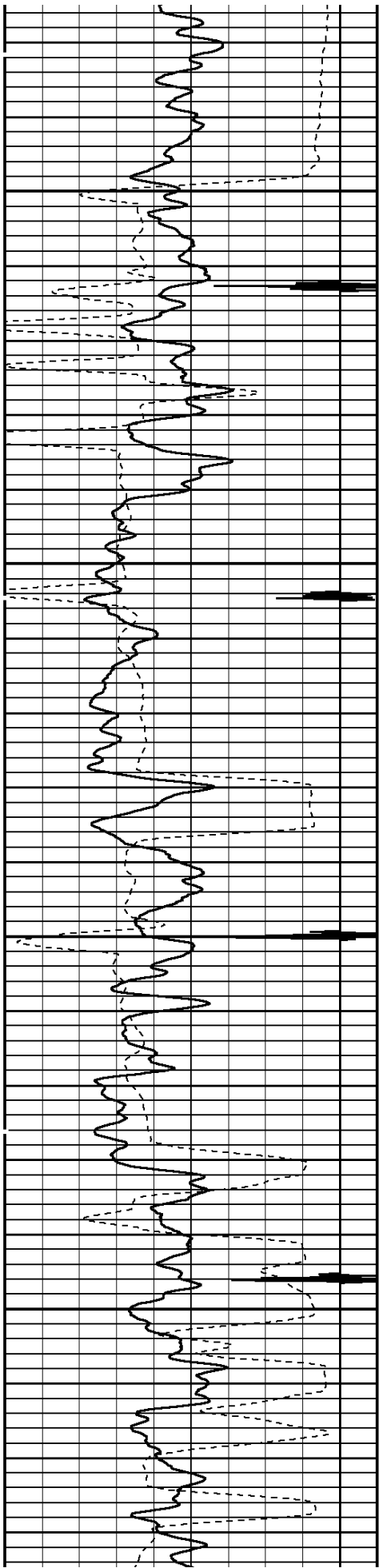




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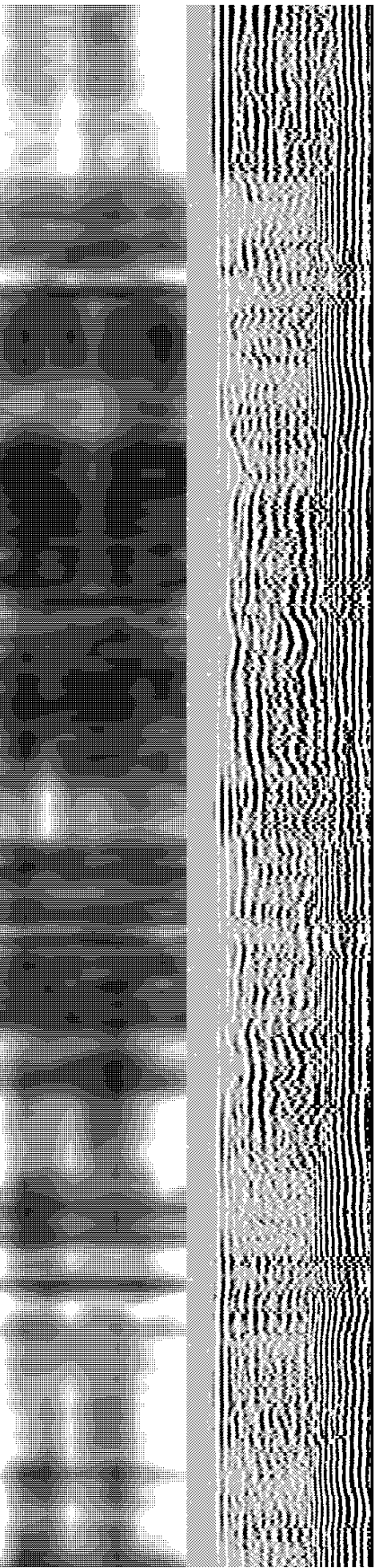
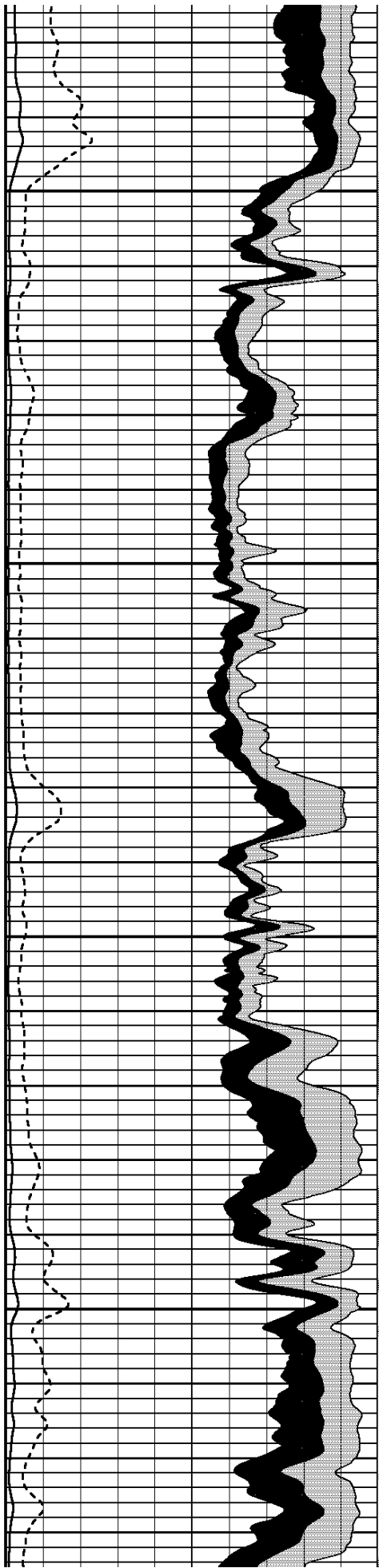
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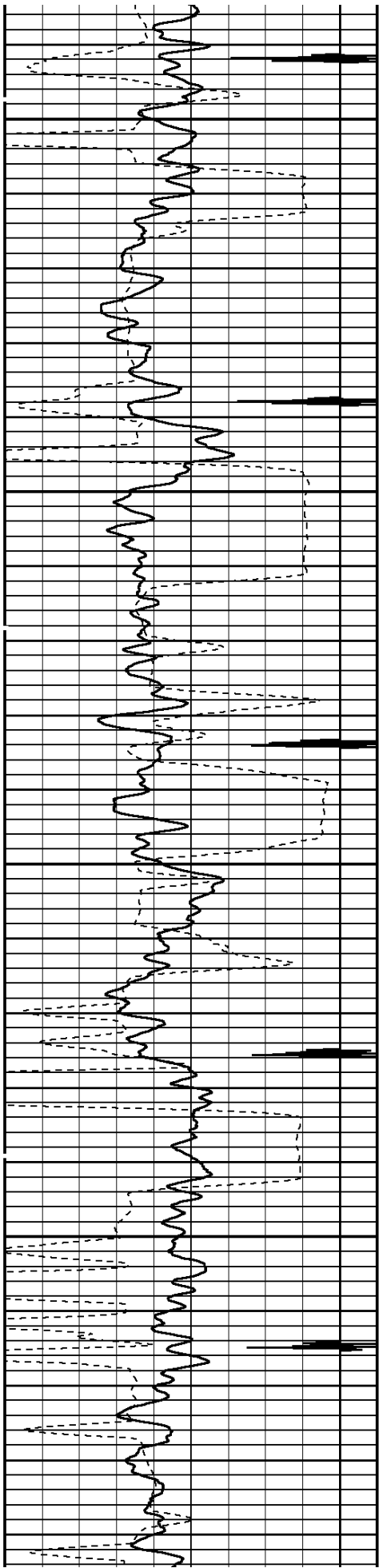




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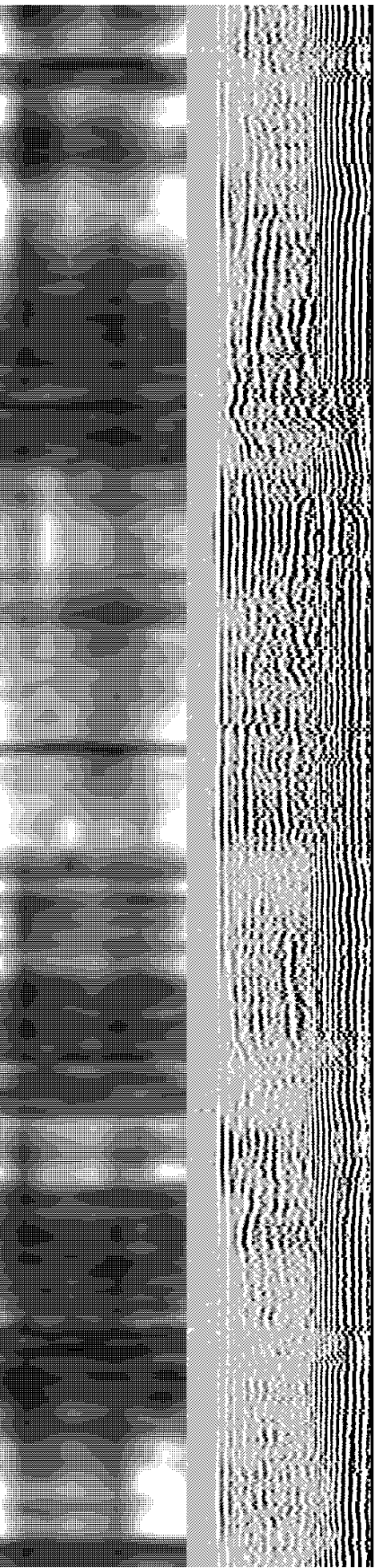
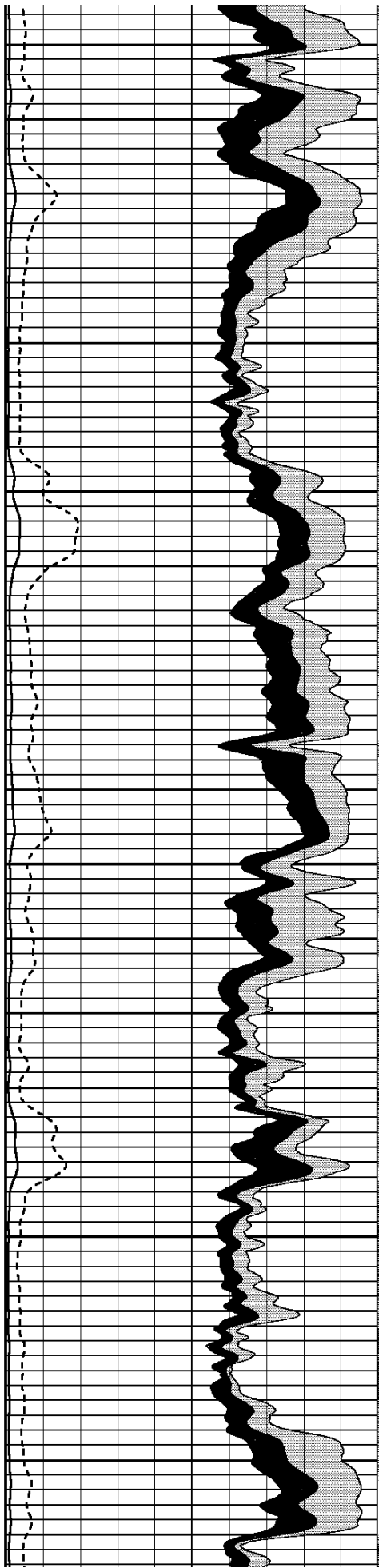
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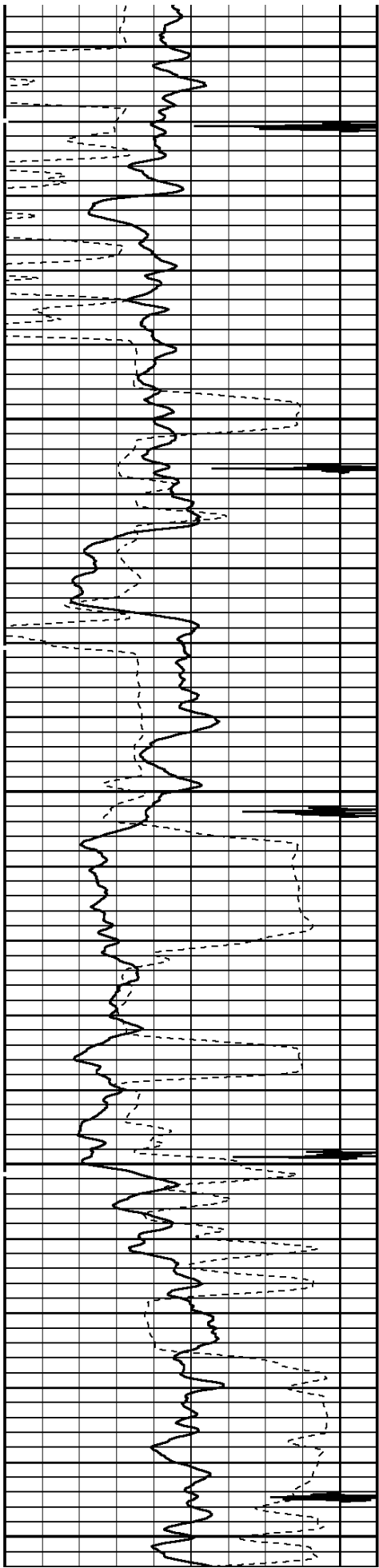




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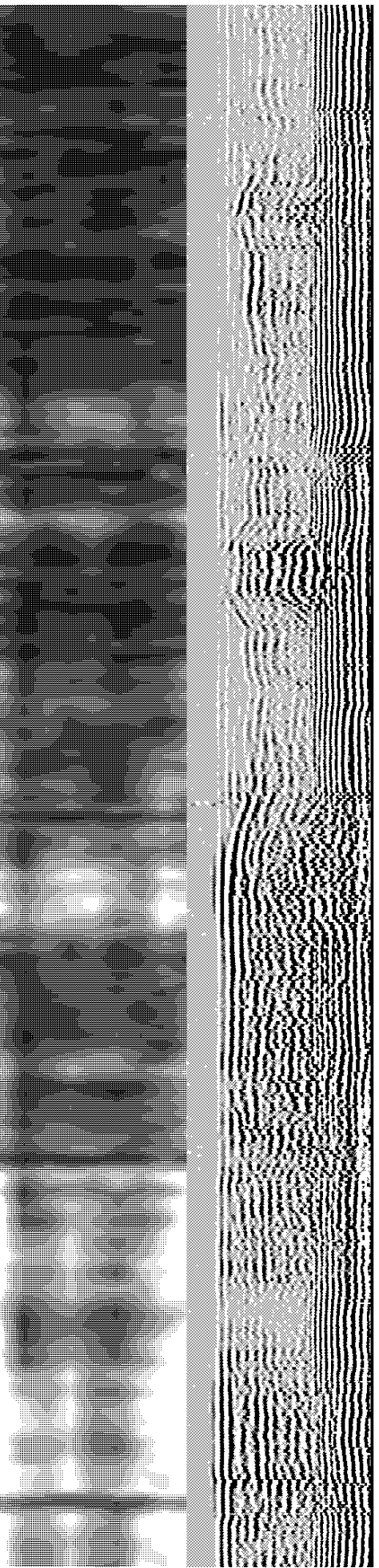
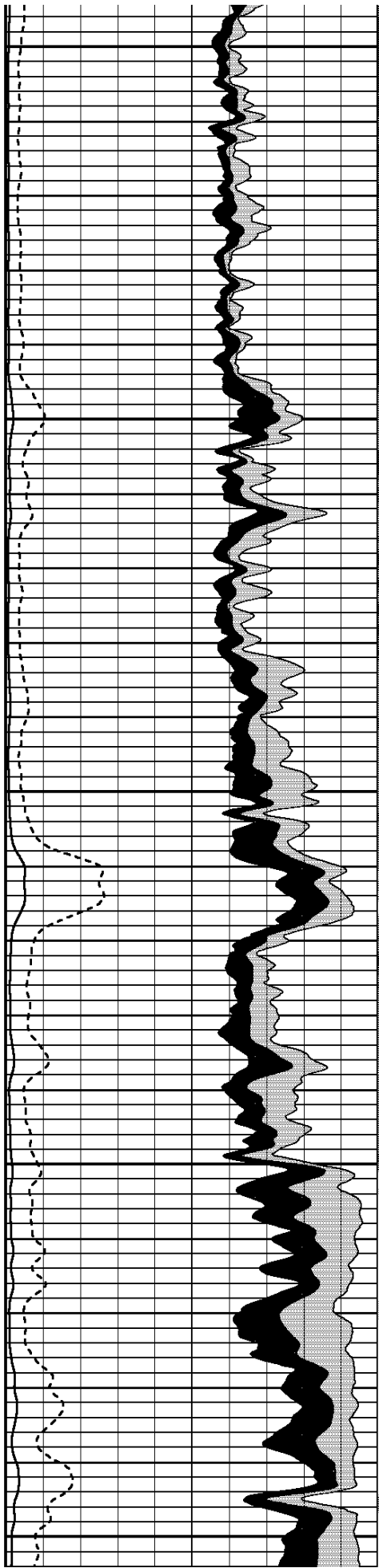
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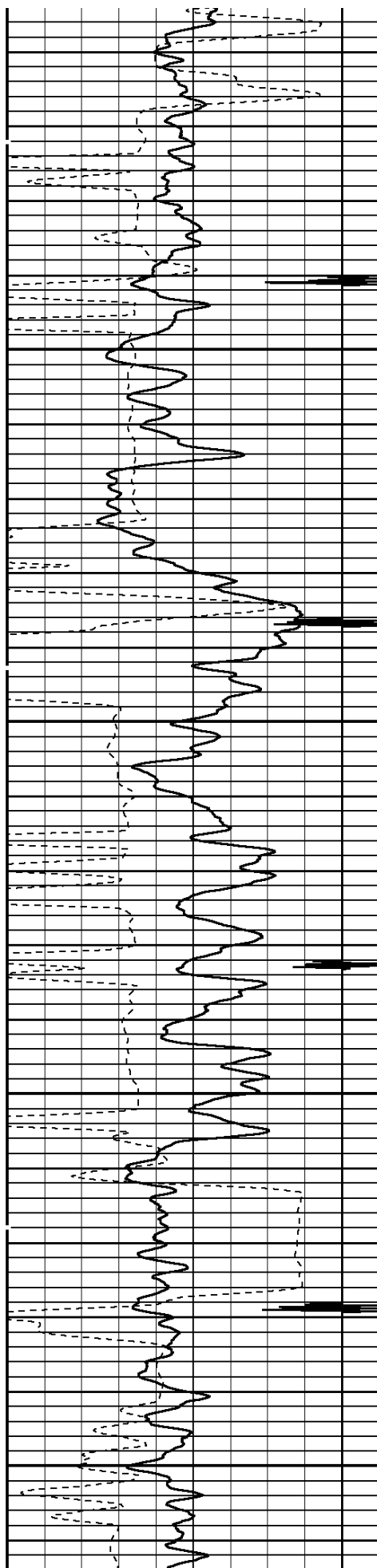




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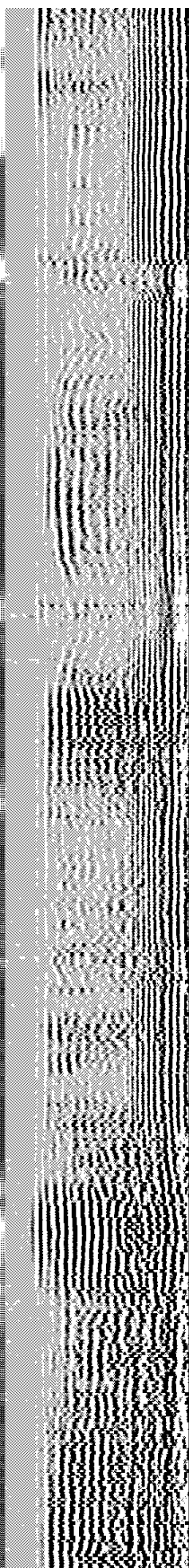
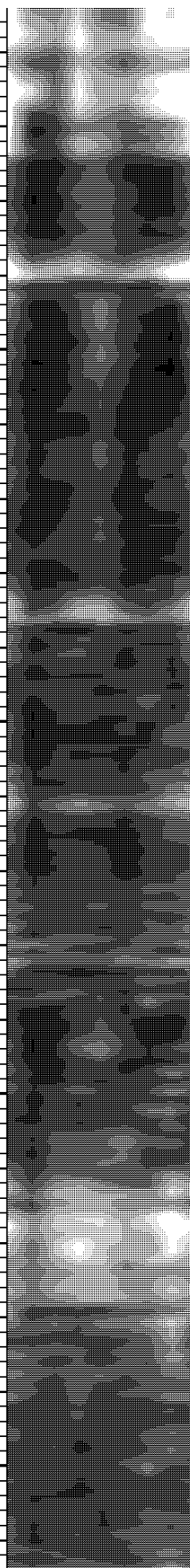
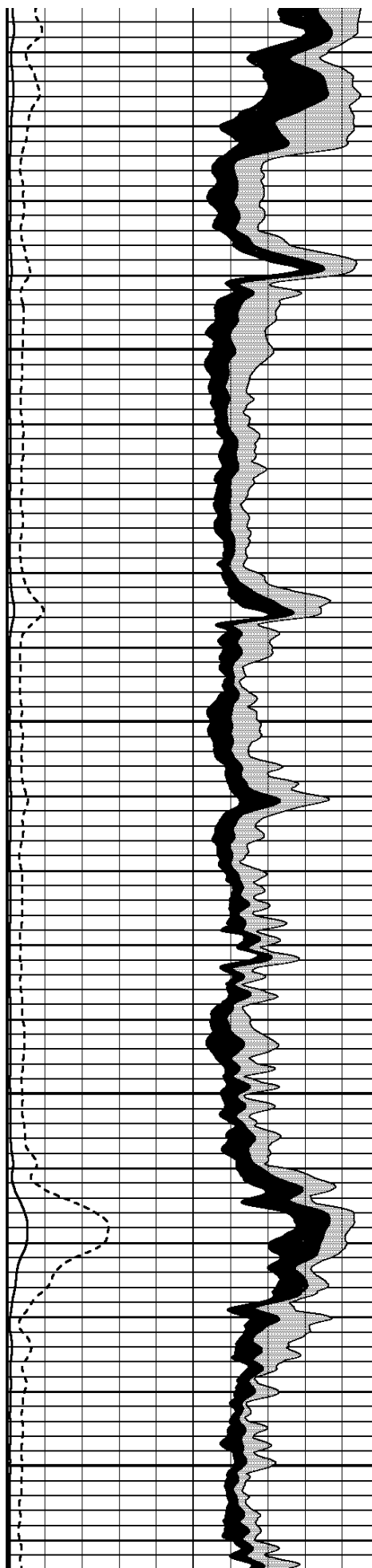
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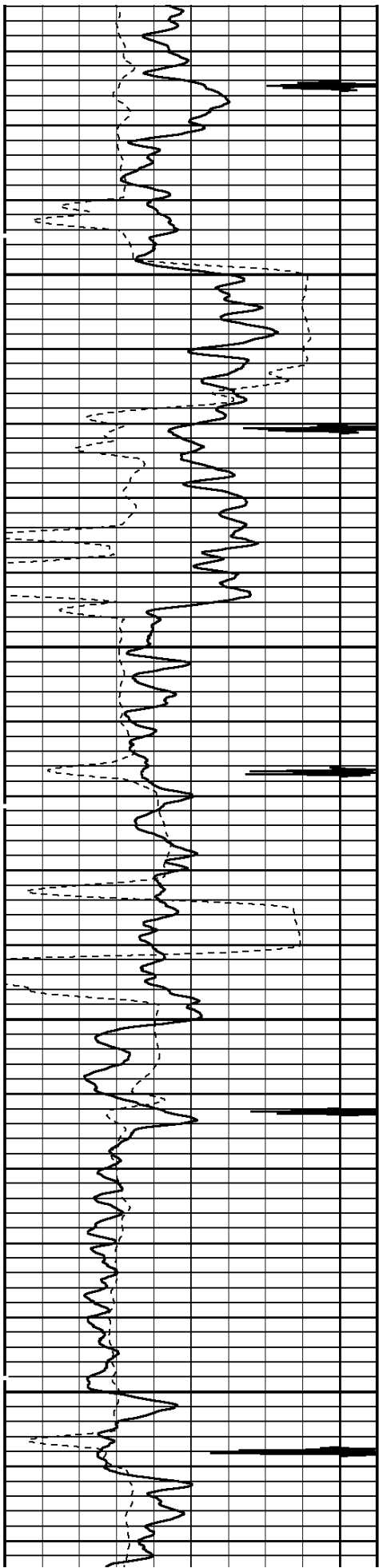




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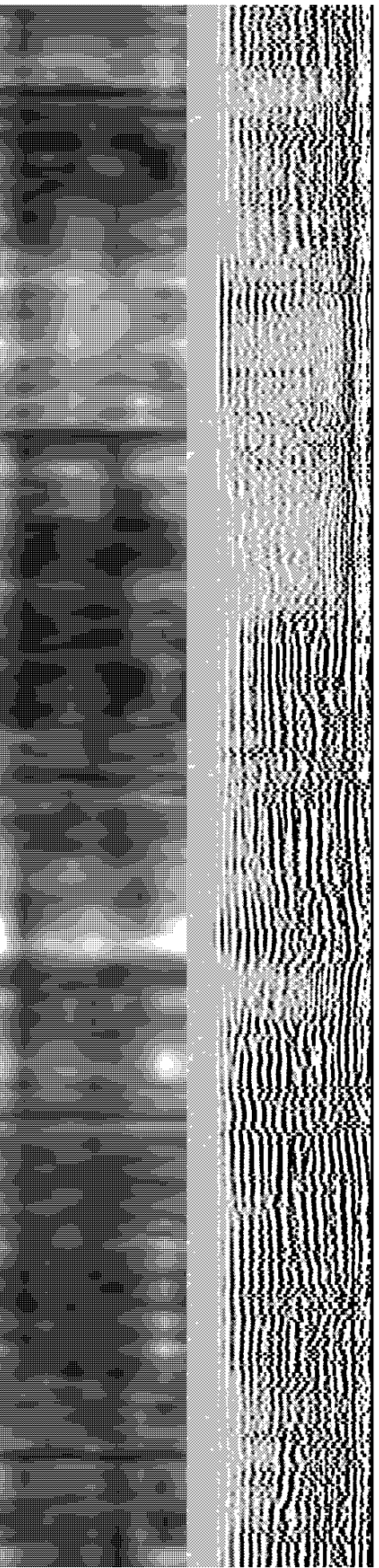
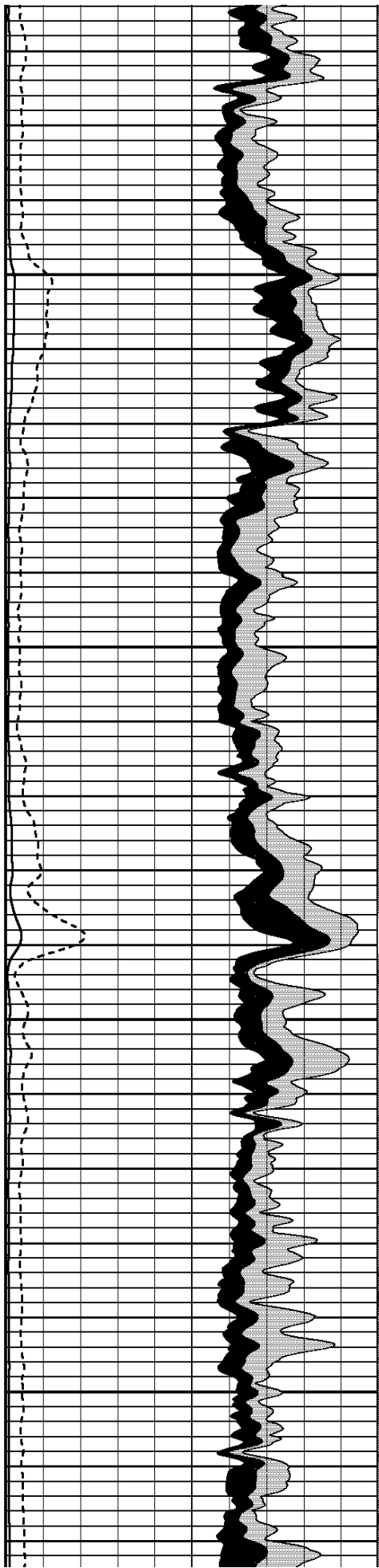
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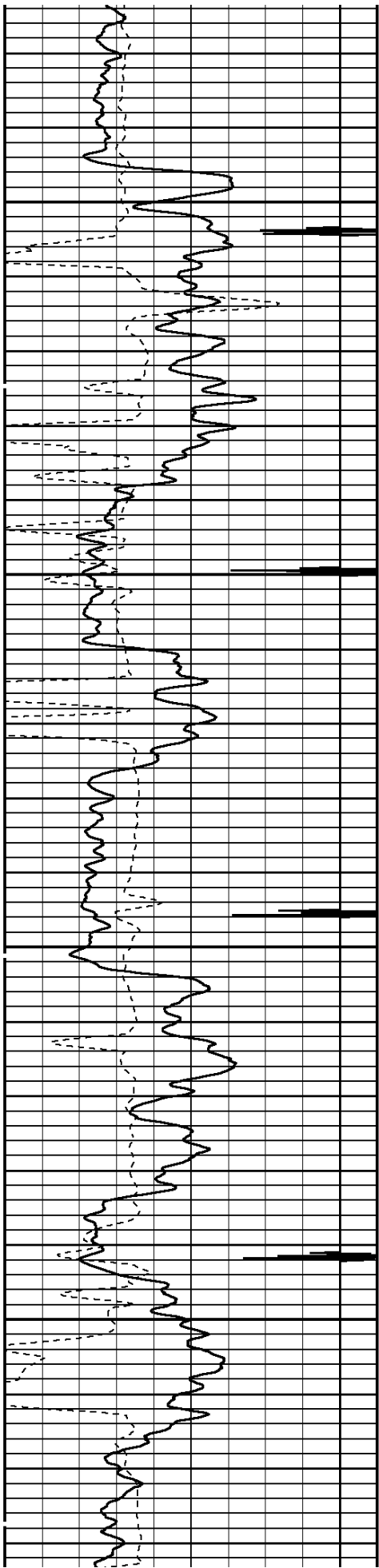




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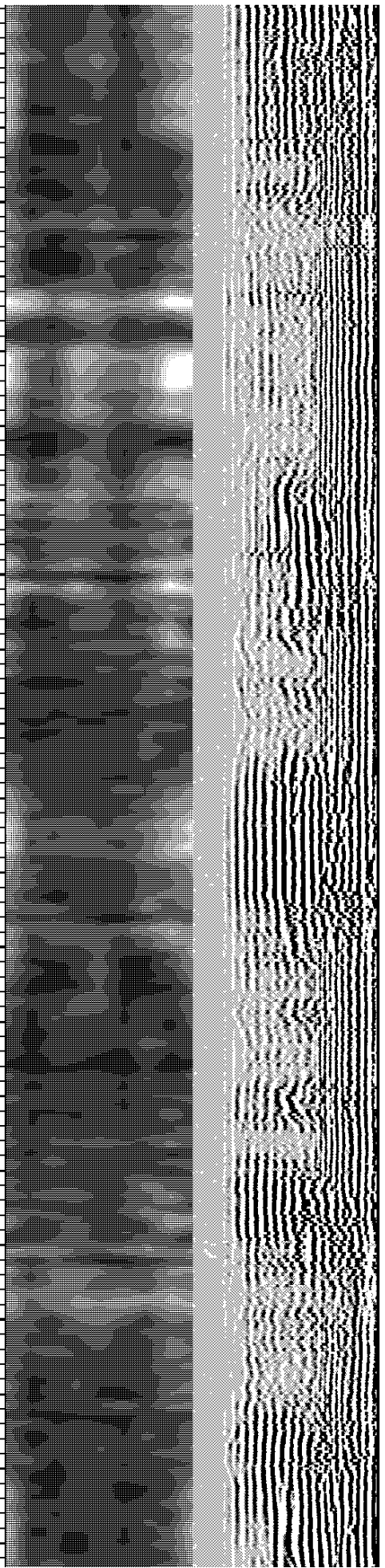
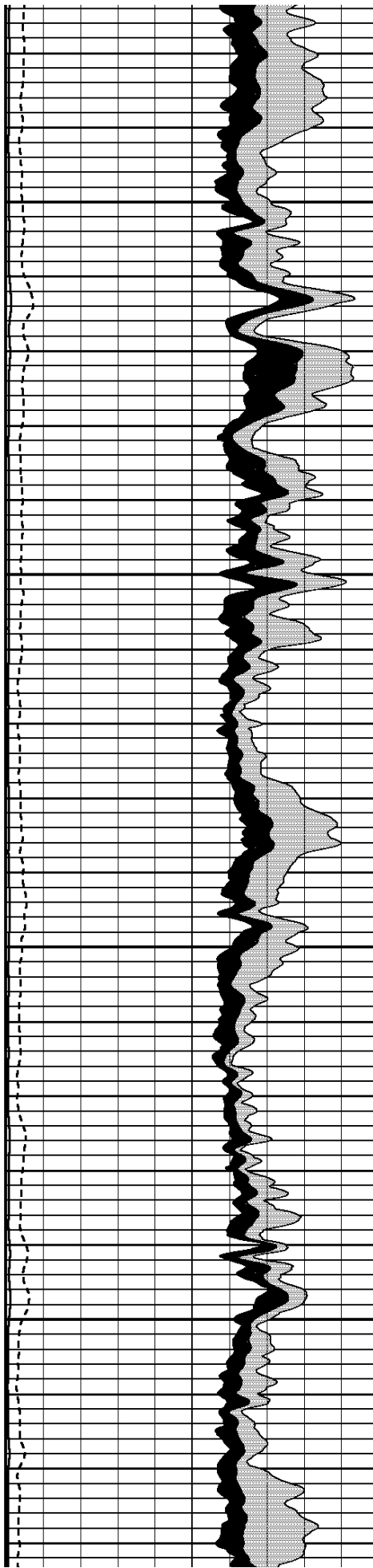
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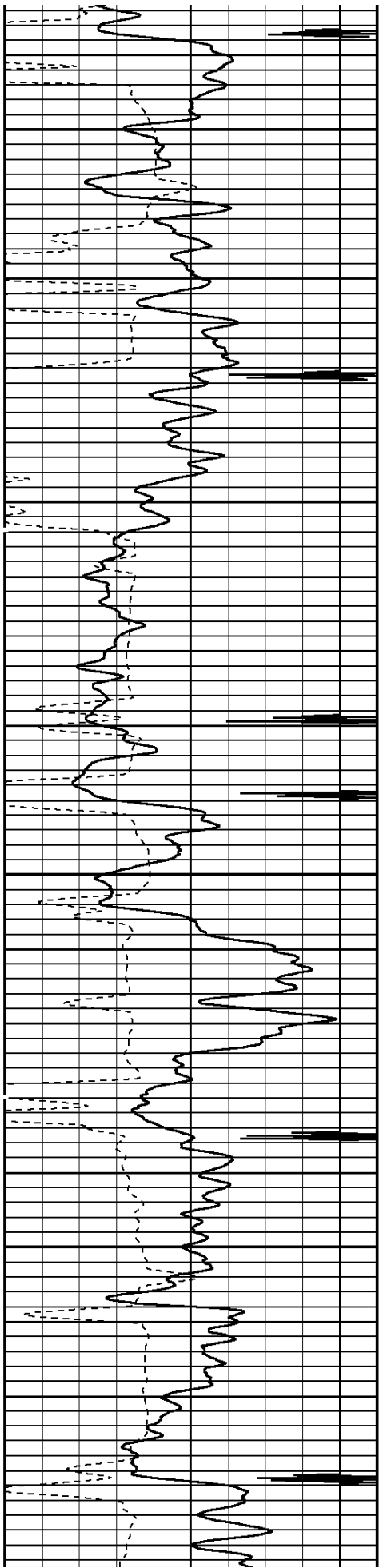




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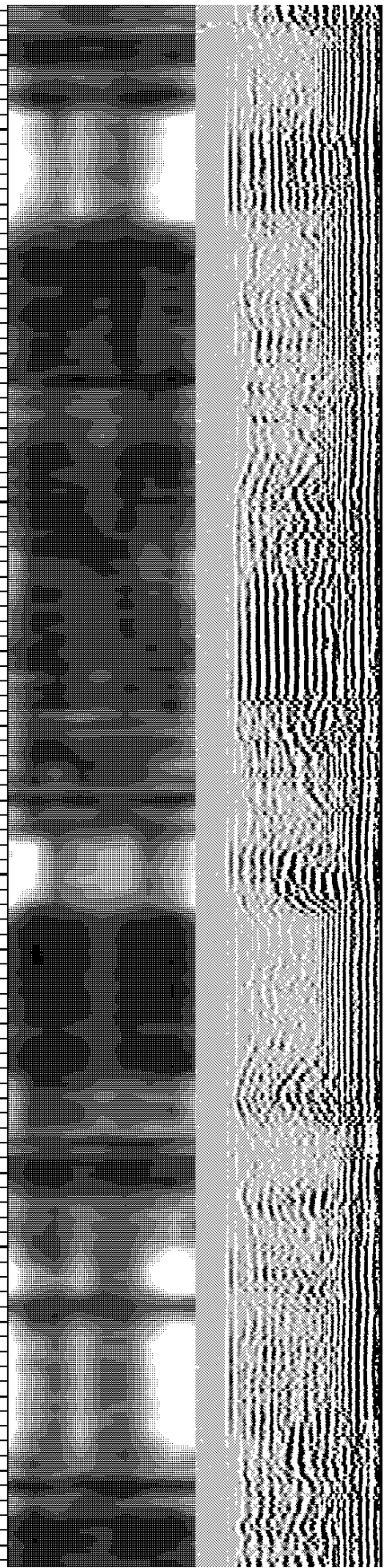
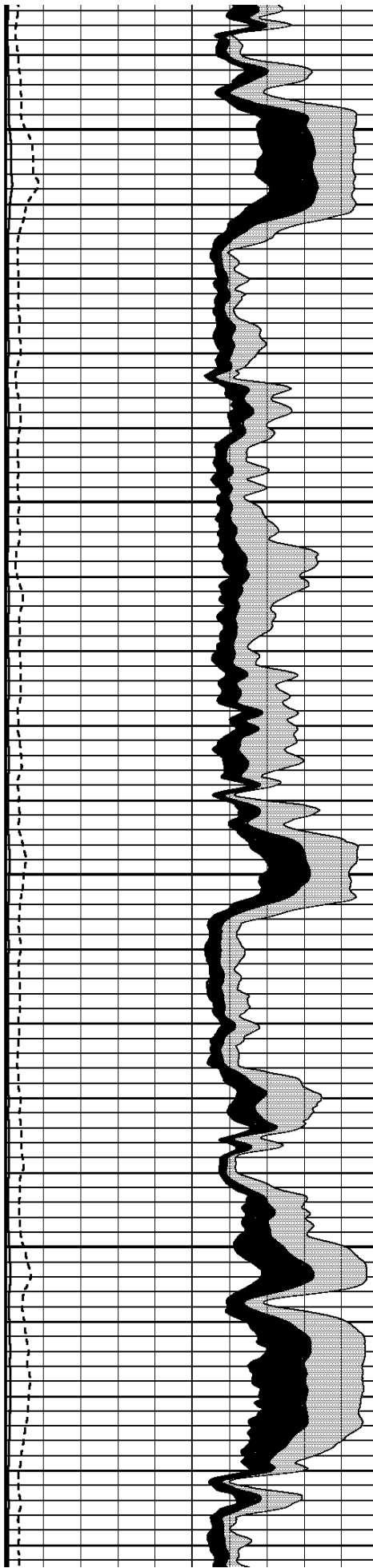
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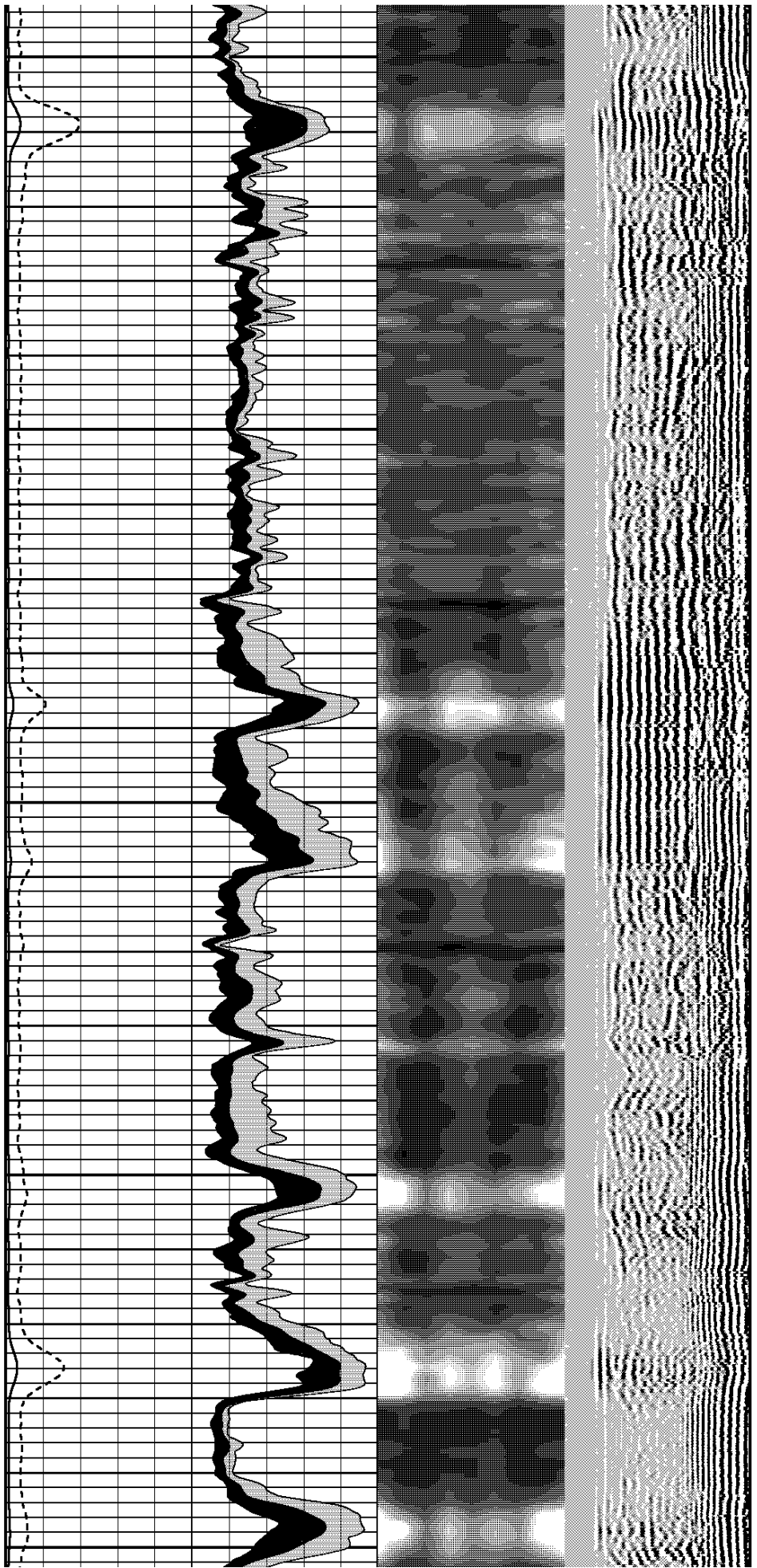
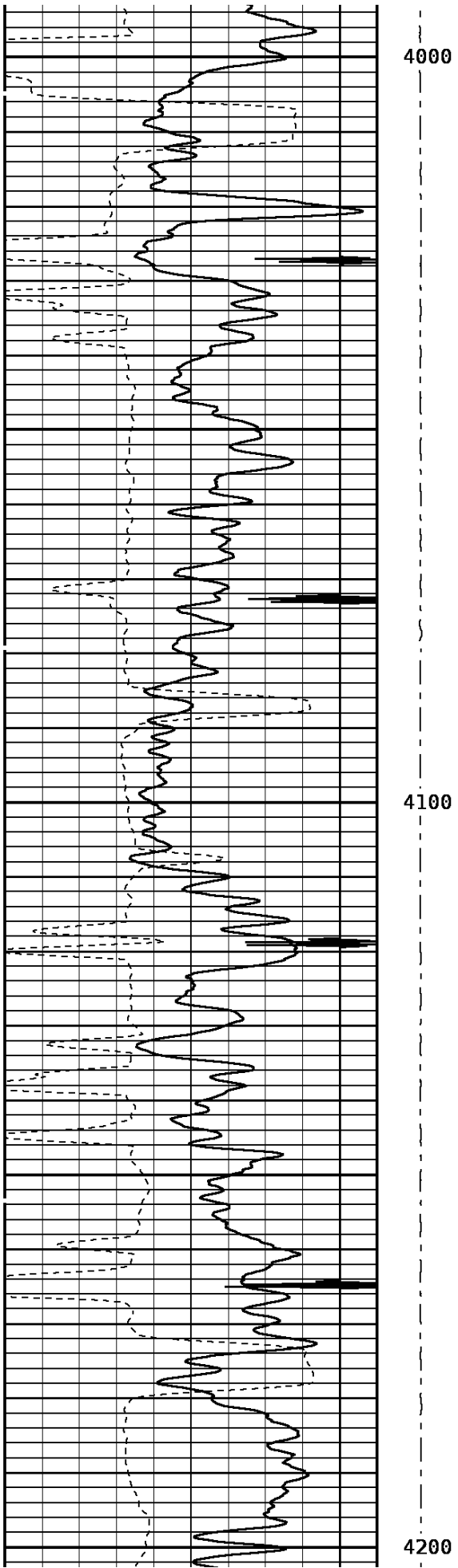


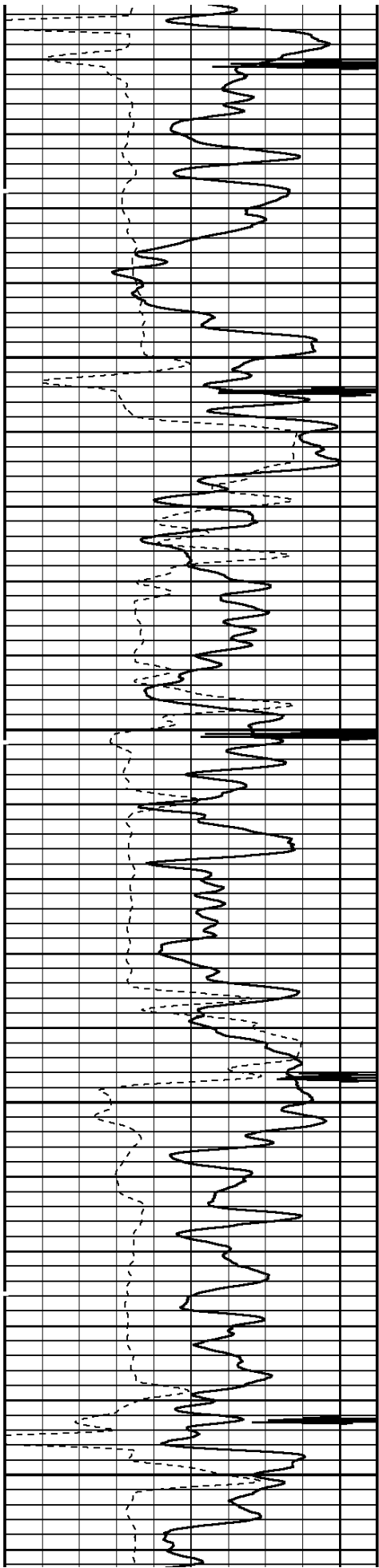


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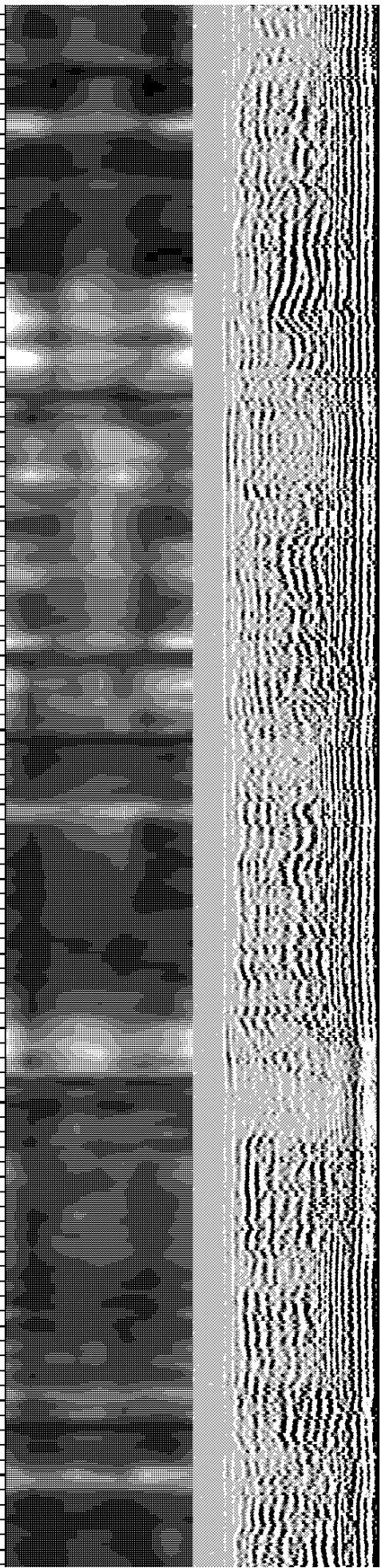
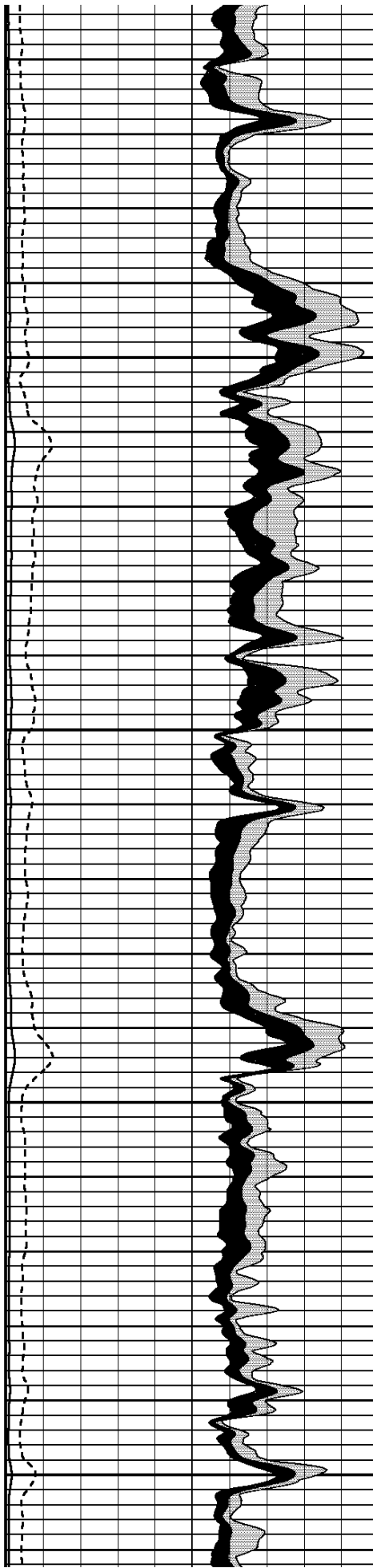


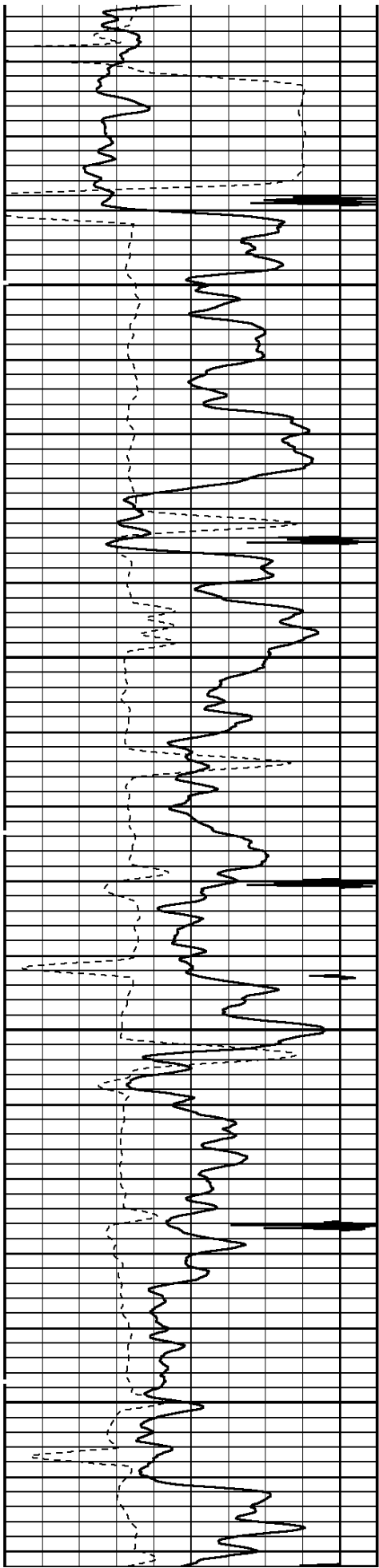




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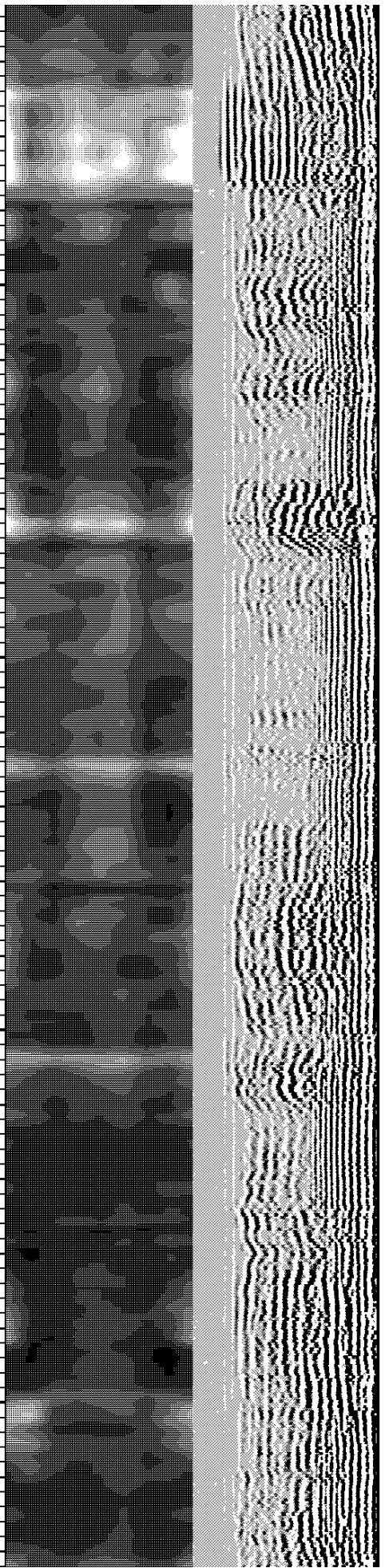
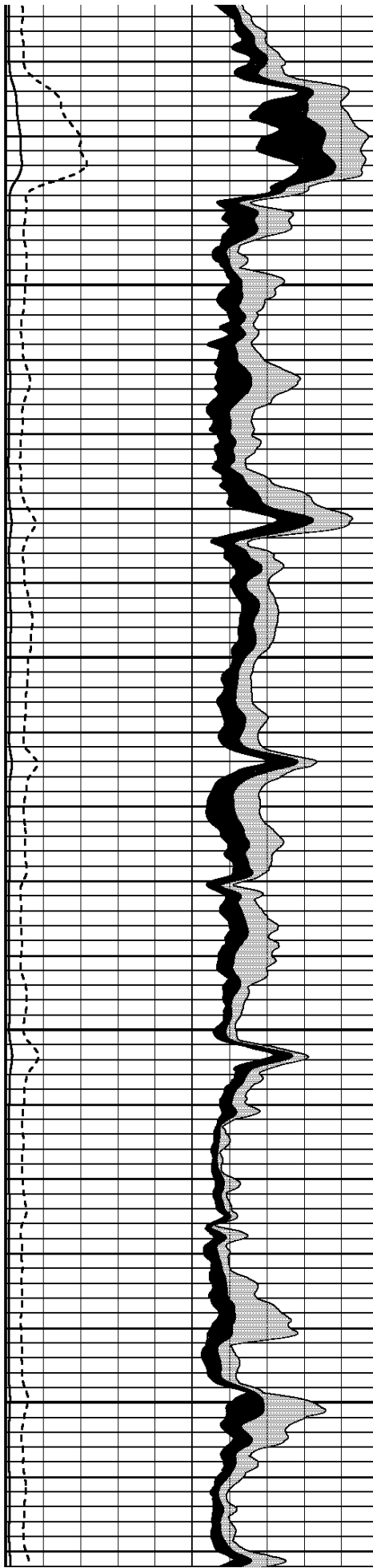
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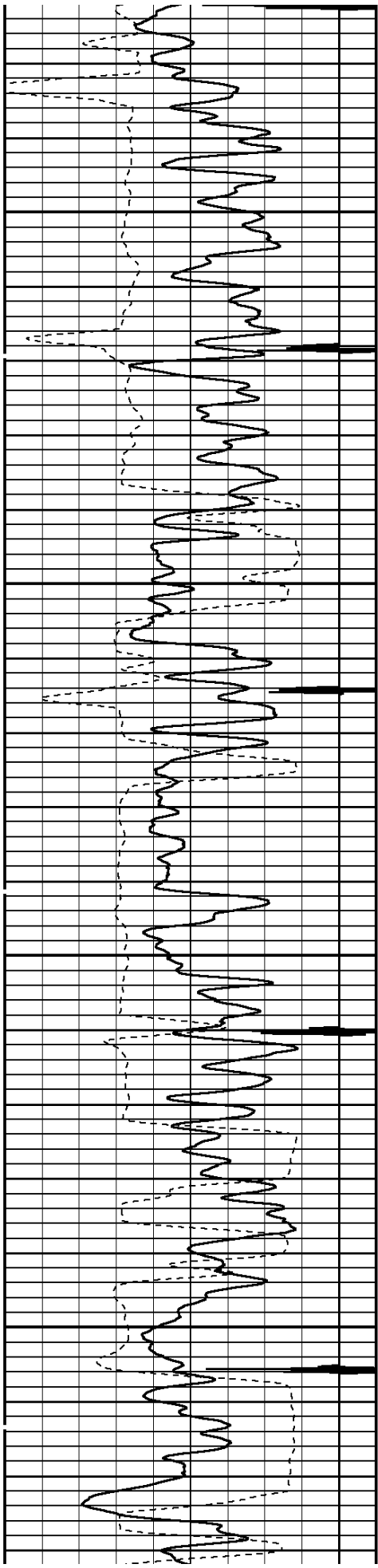




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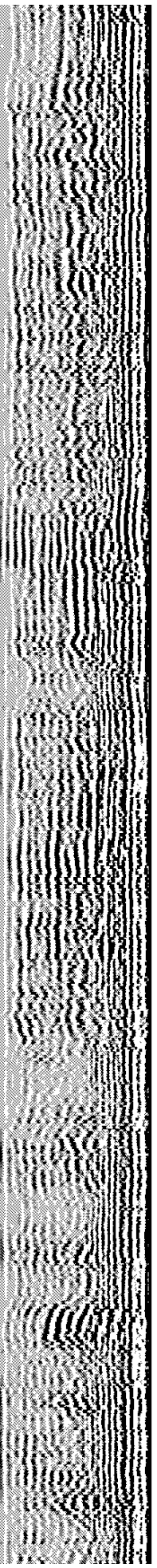
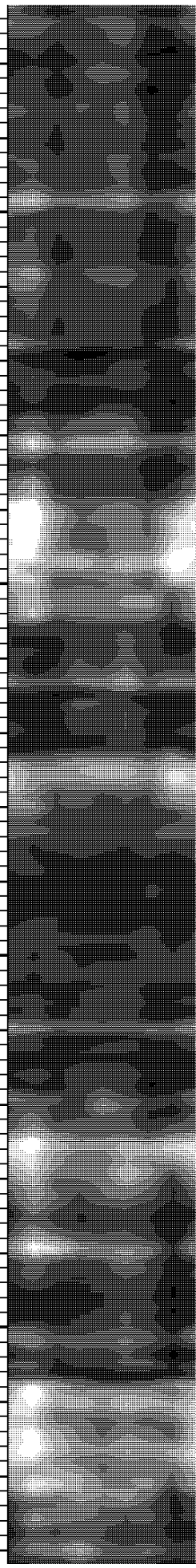
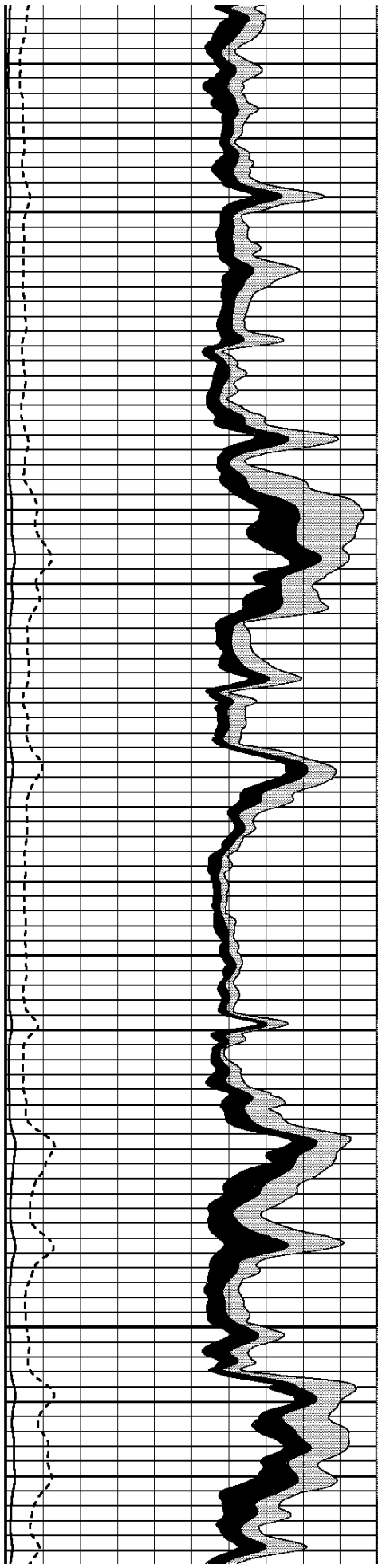
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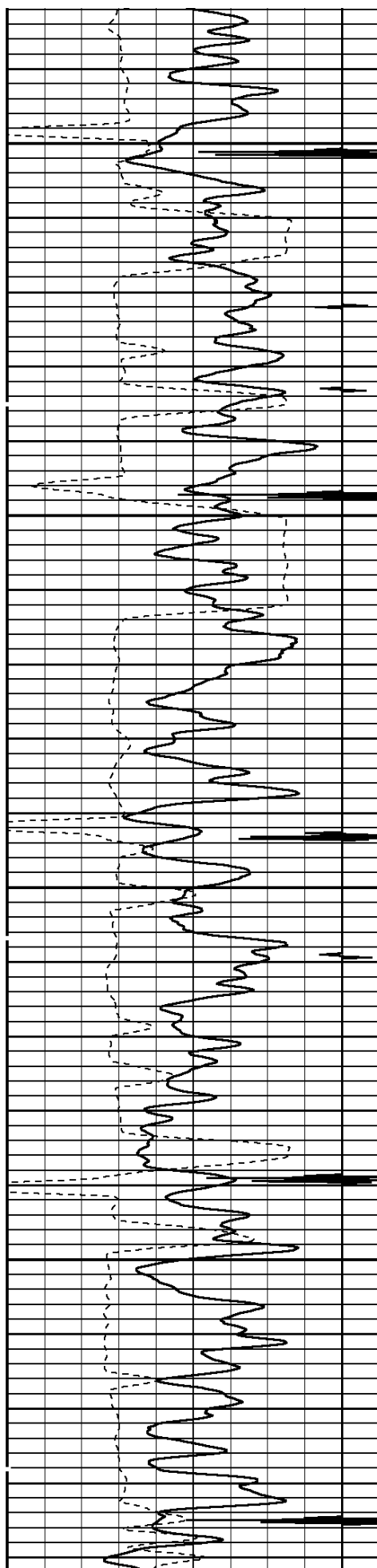




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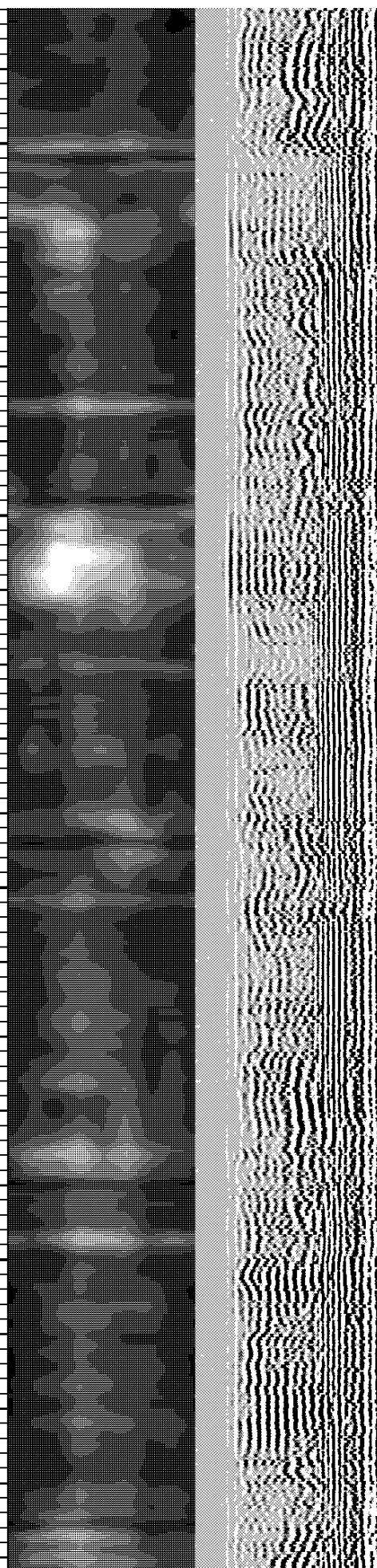
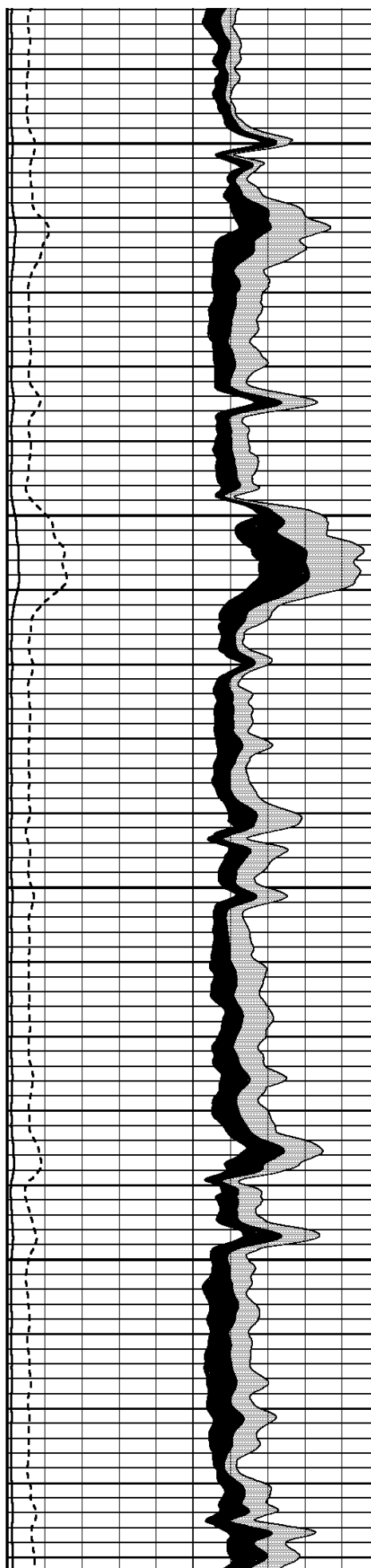
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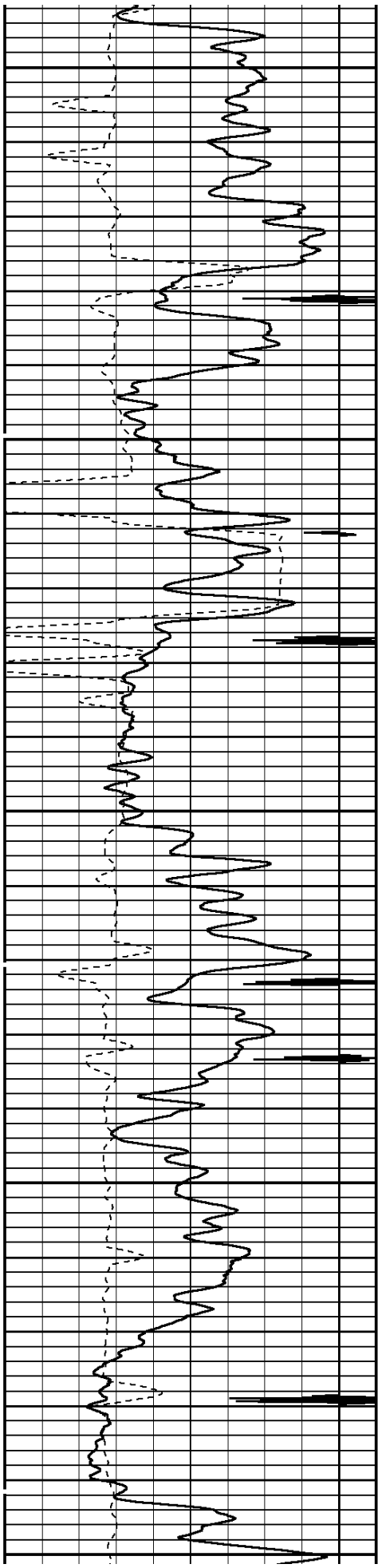




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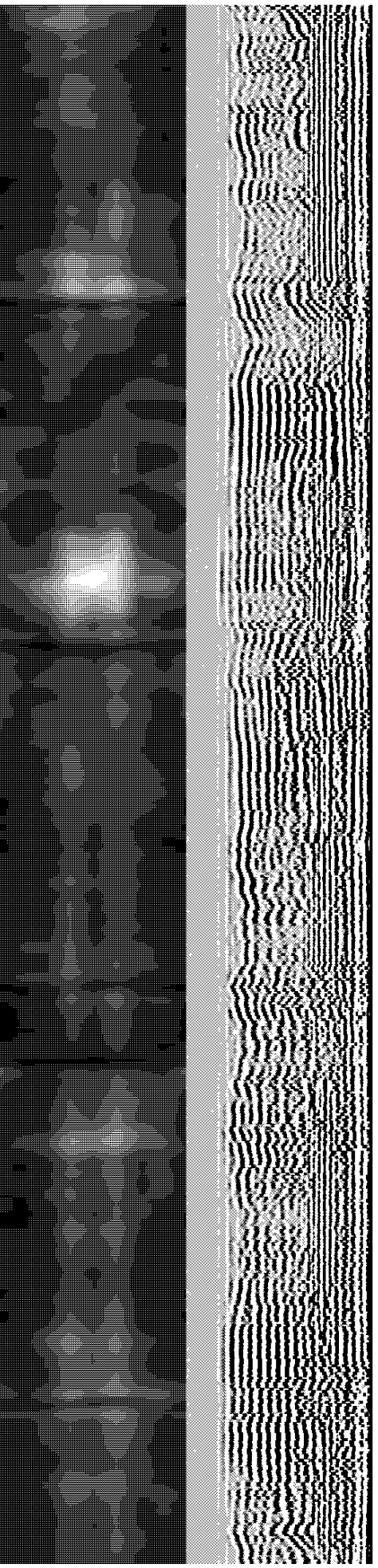
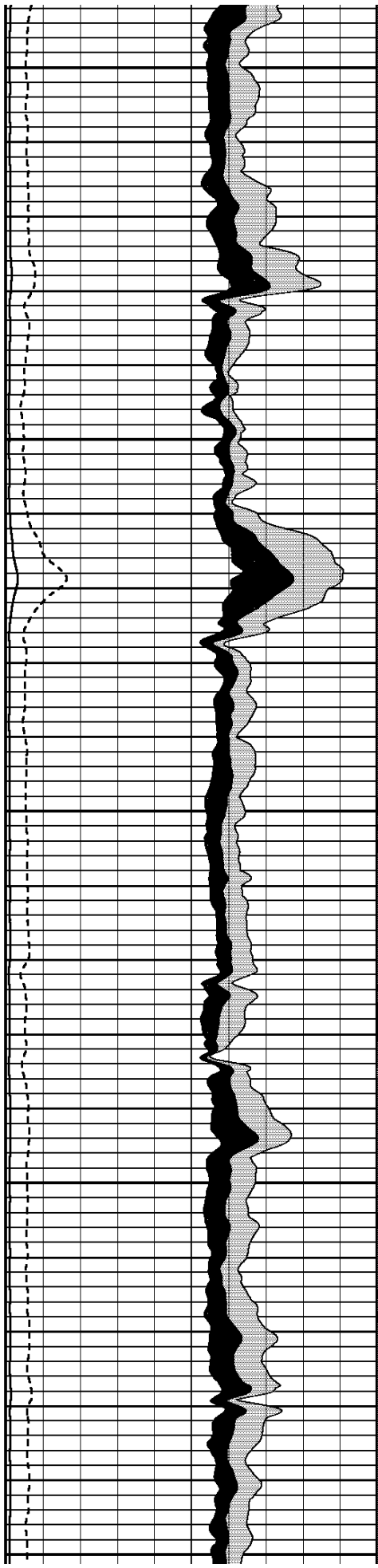
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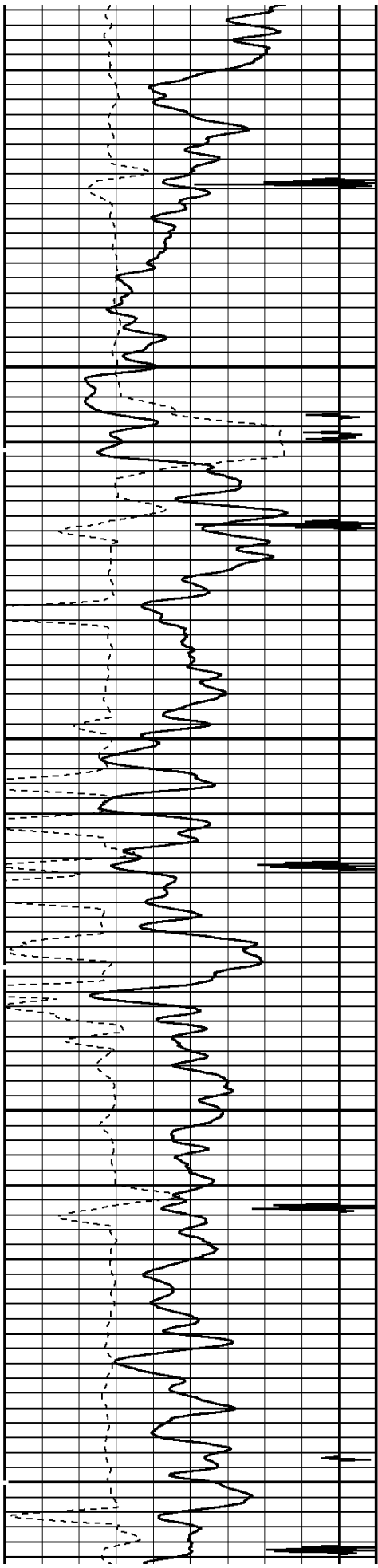




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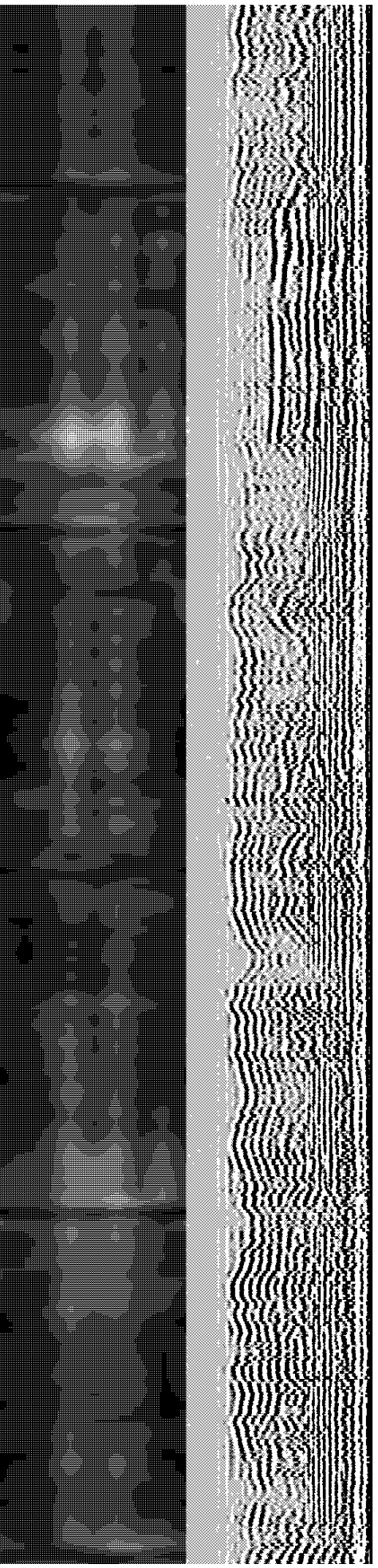
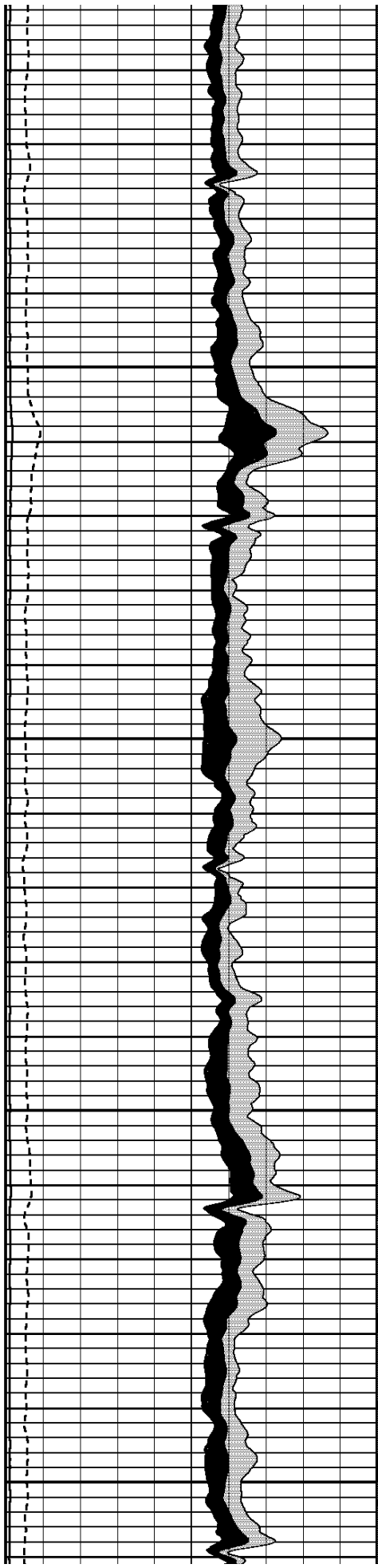
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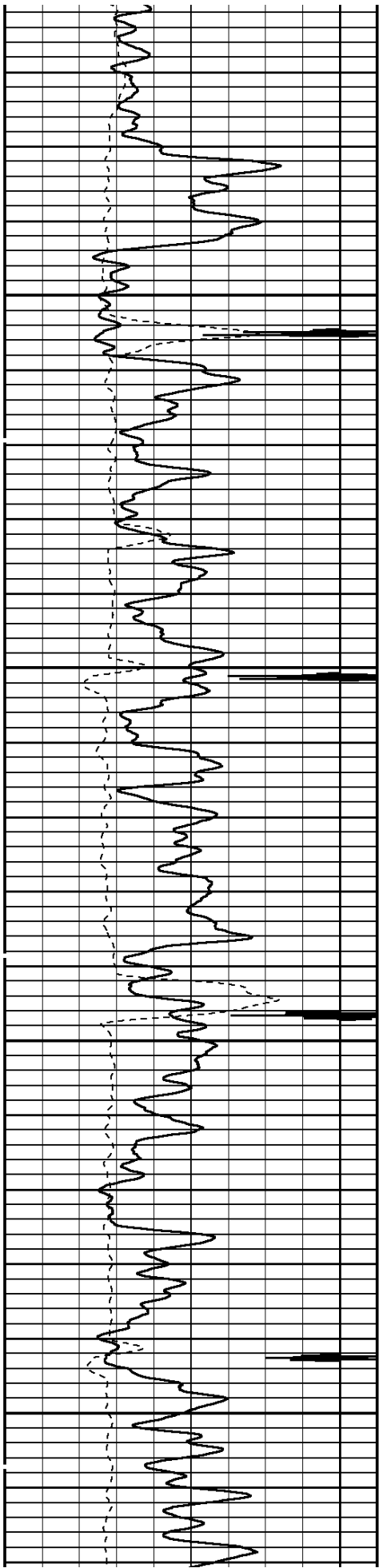




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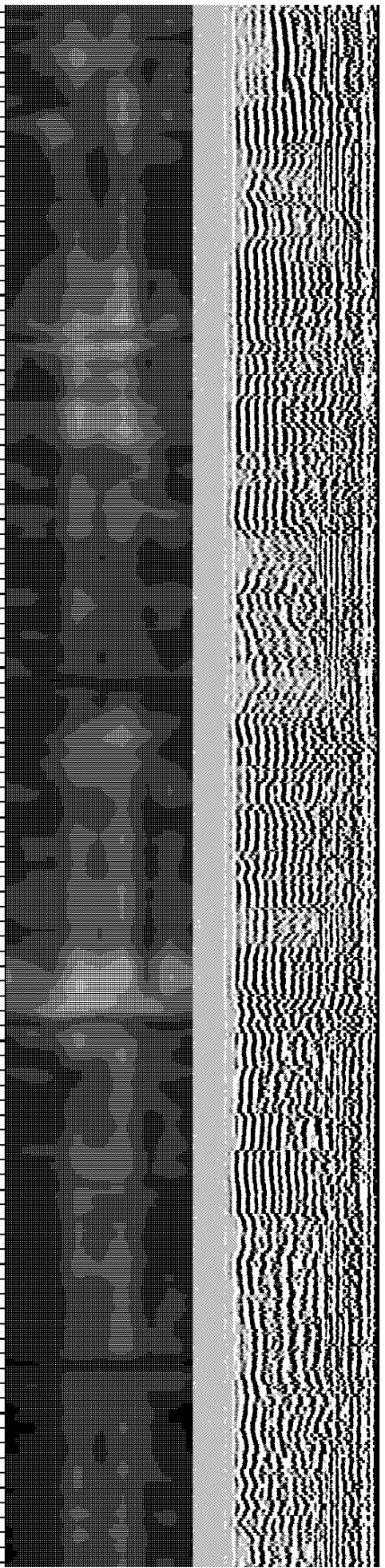
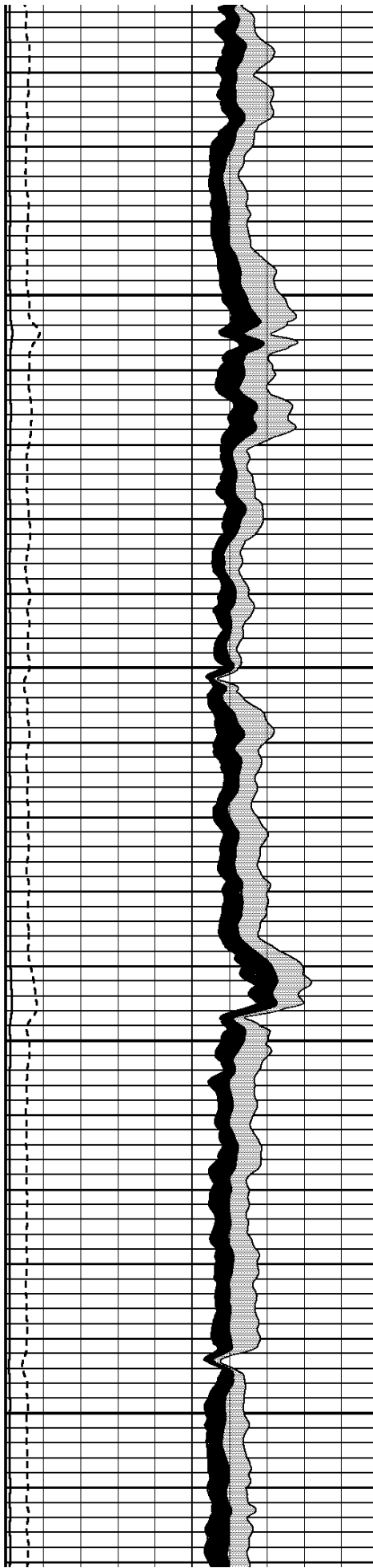
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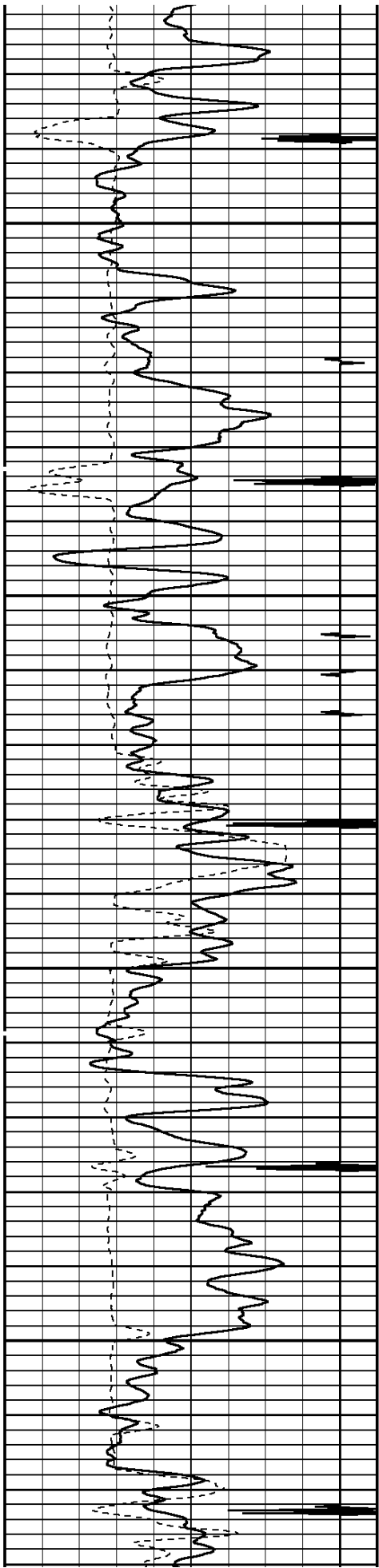




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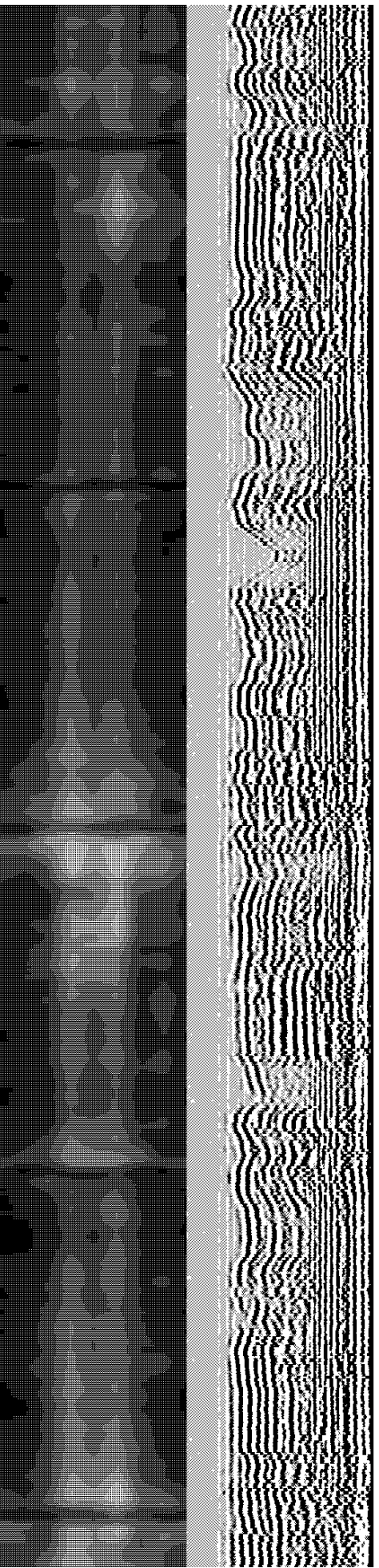
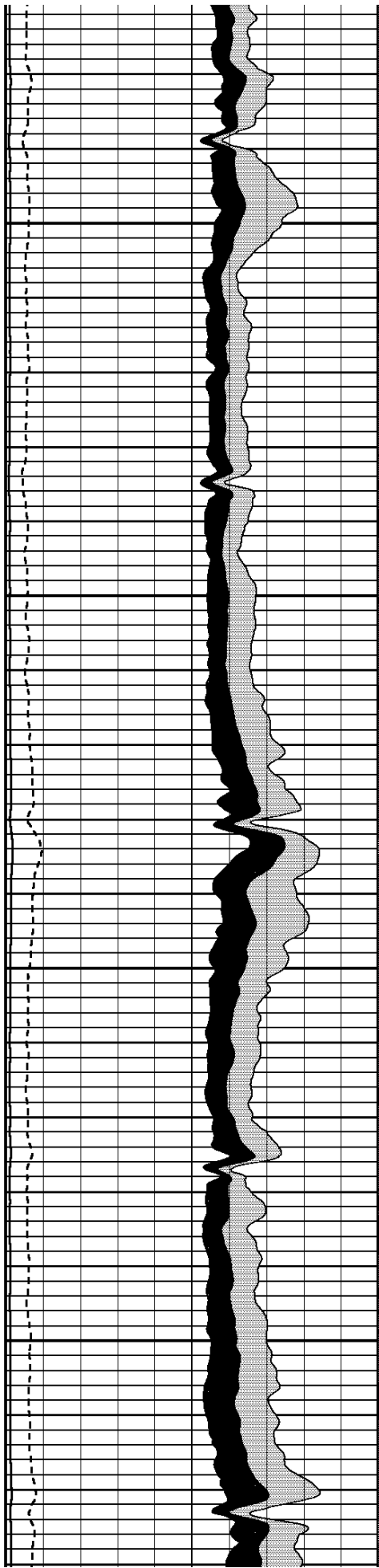
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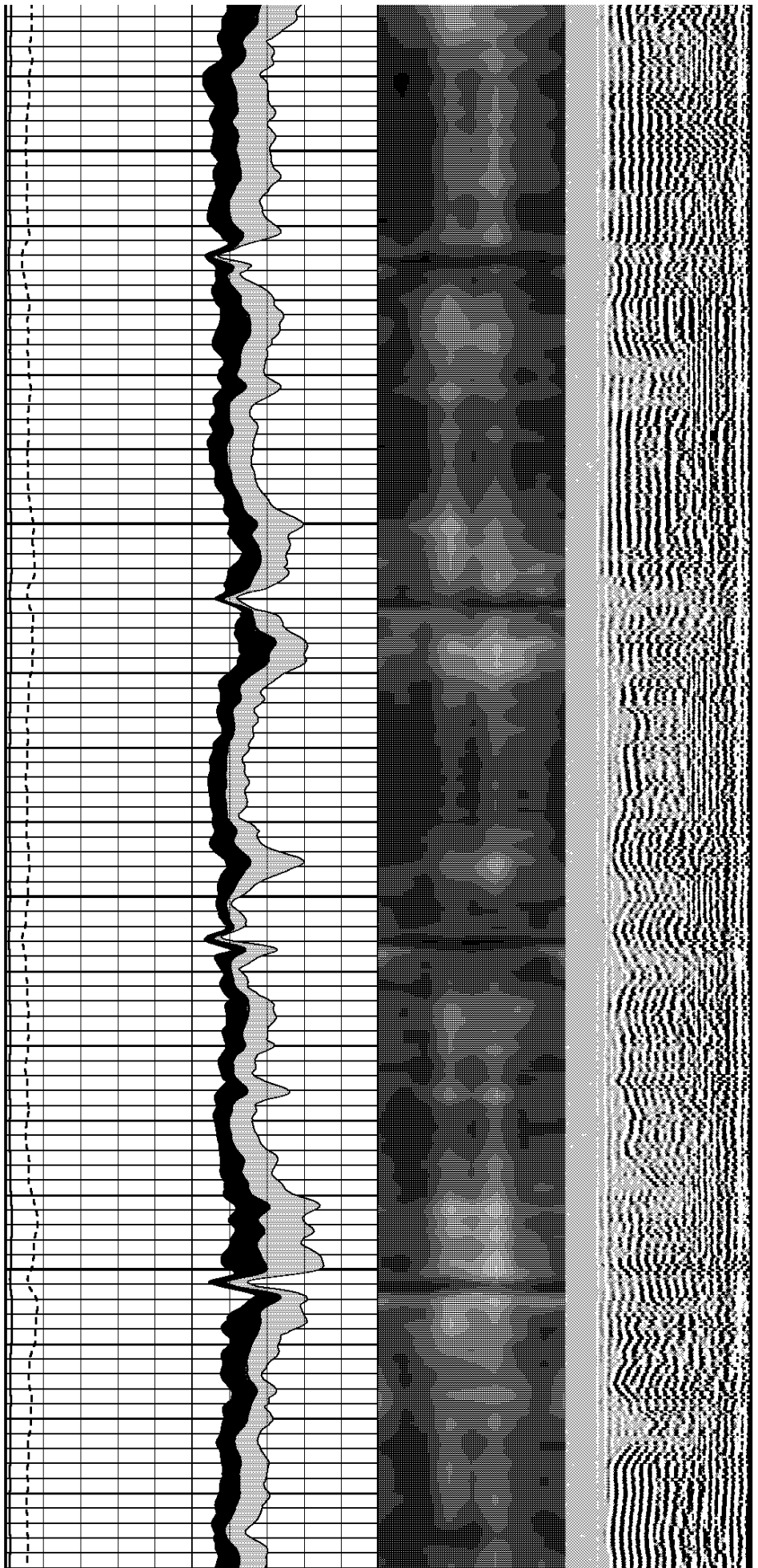
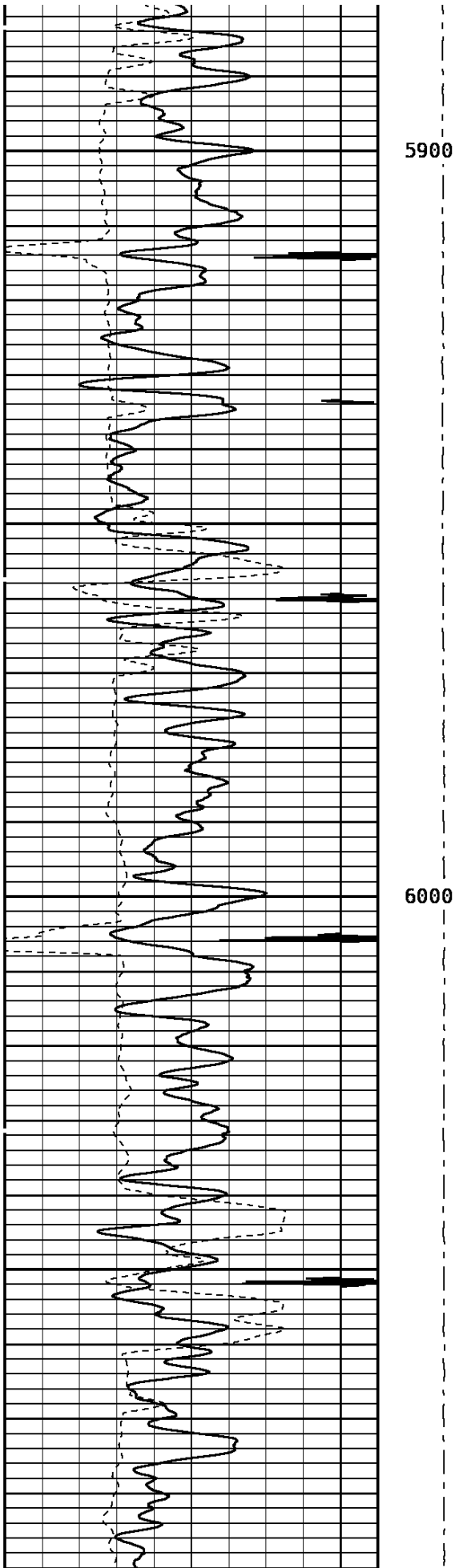


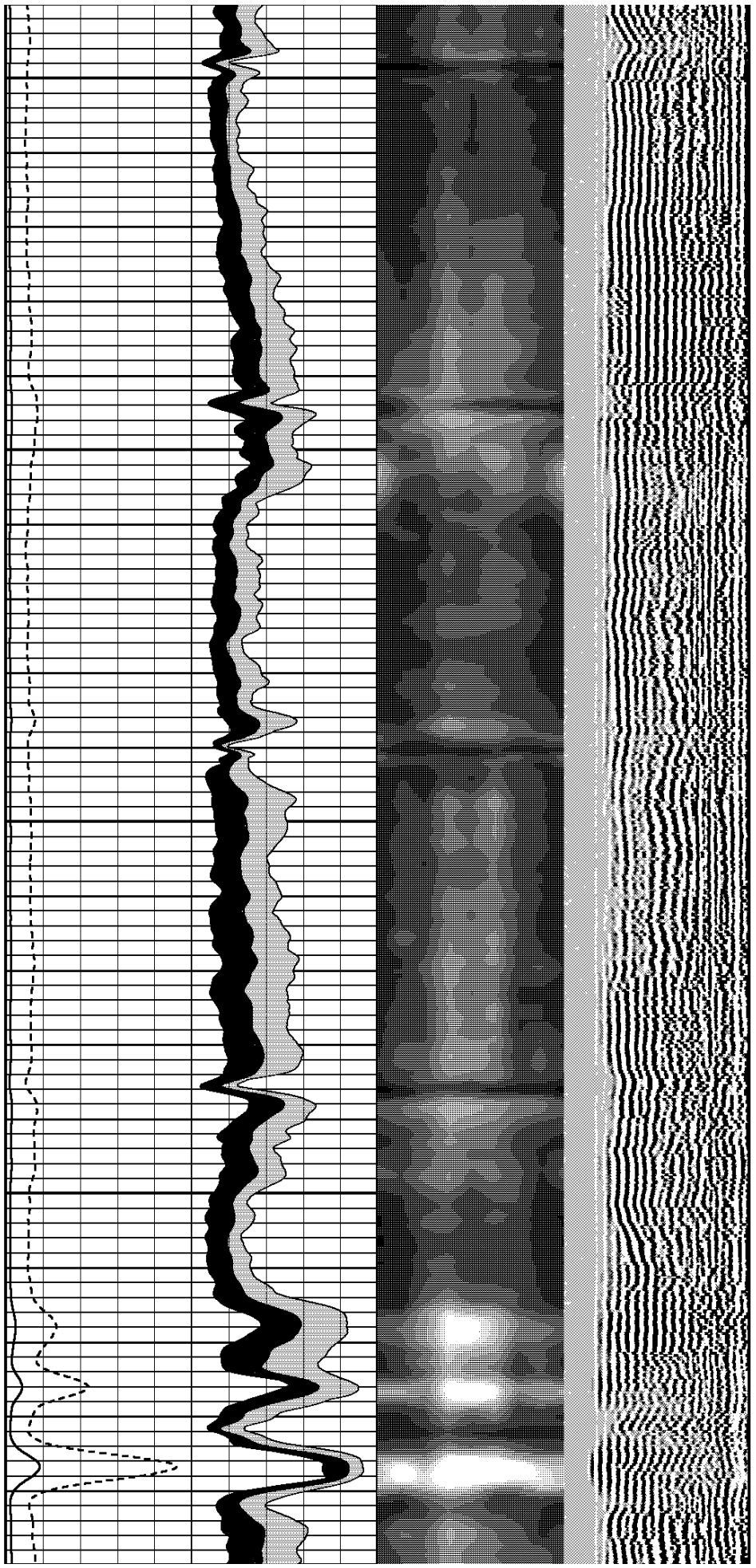
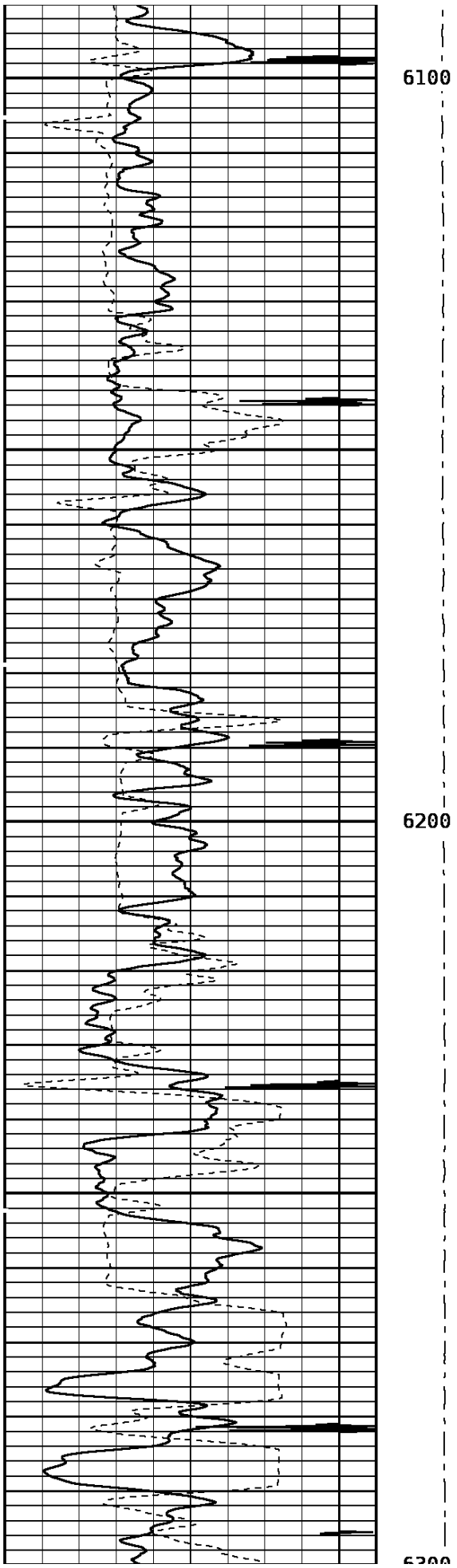


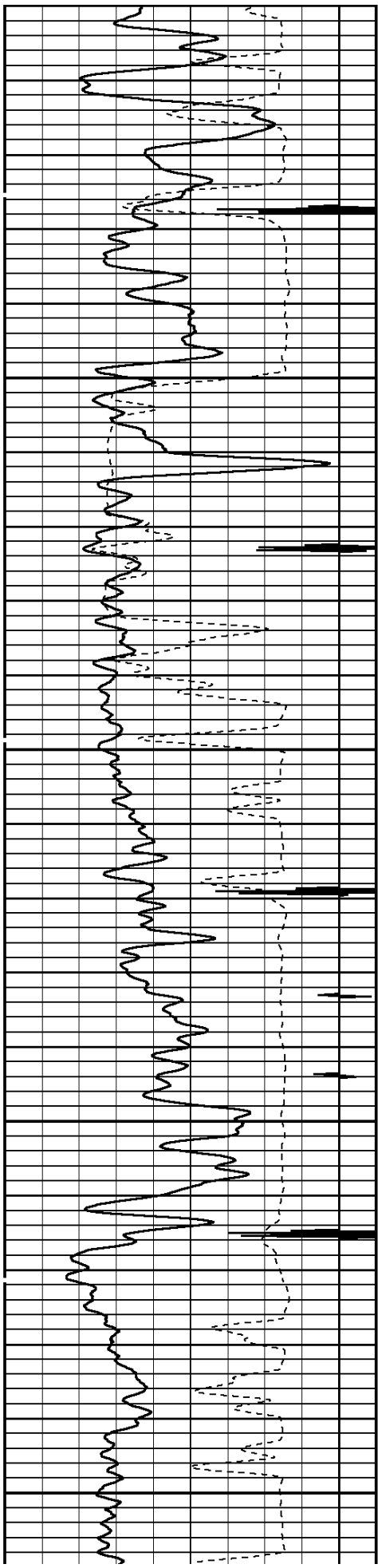
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5800





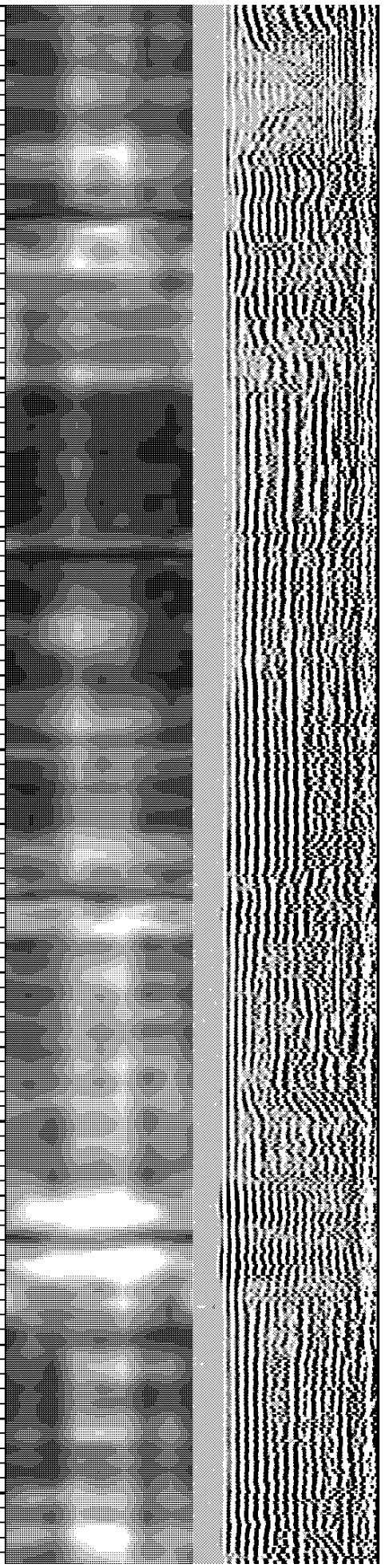
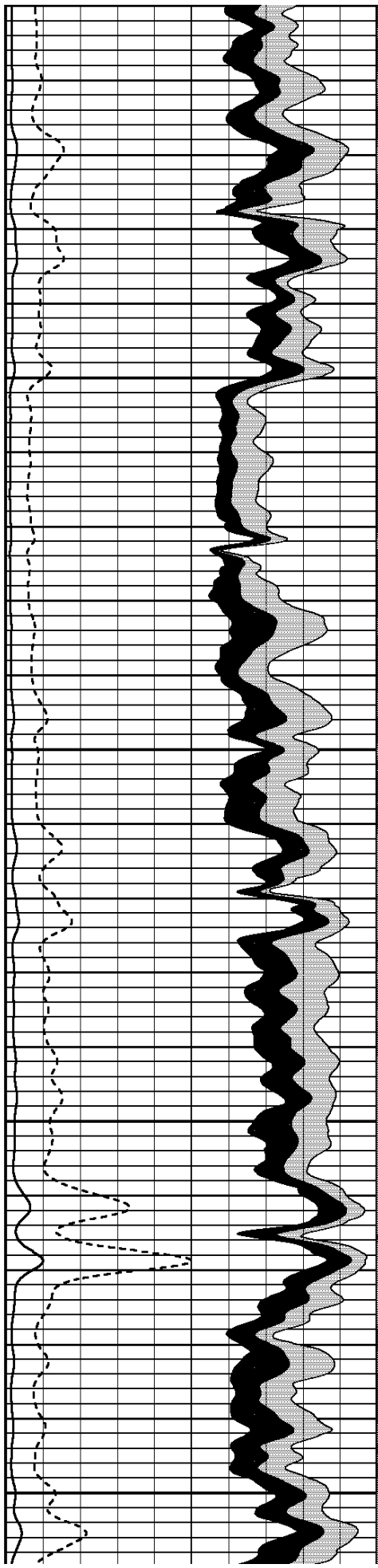


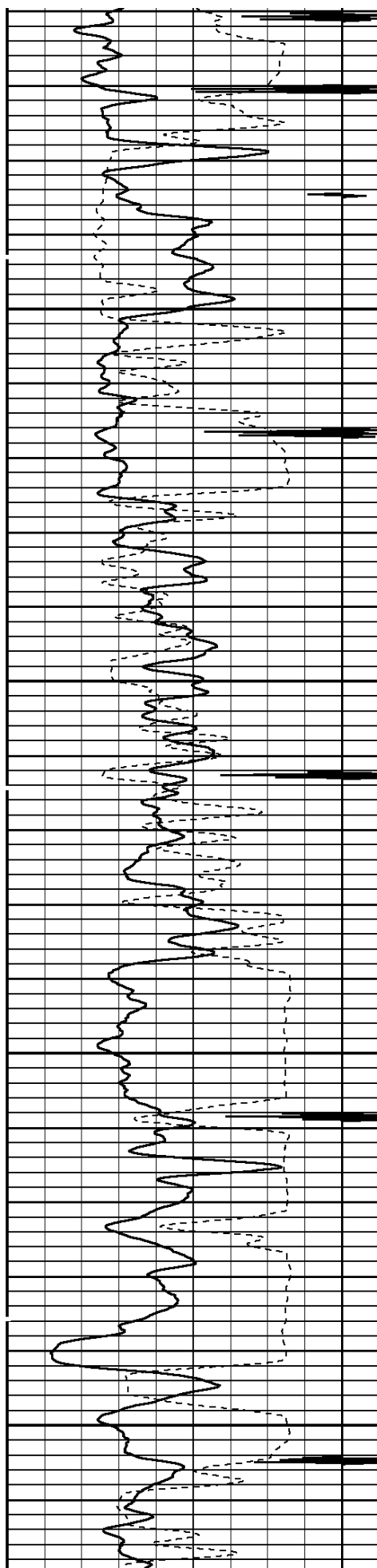


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6400

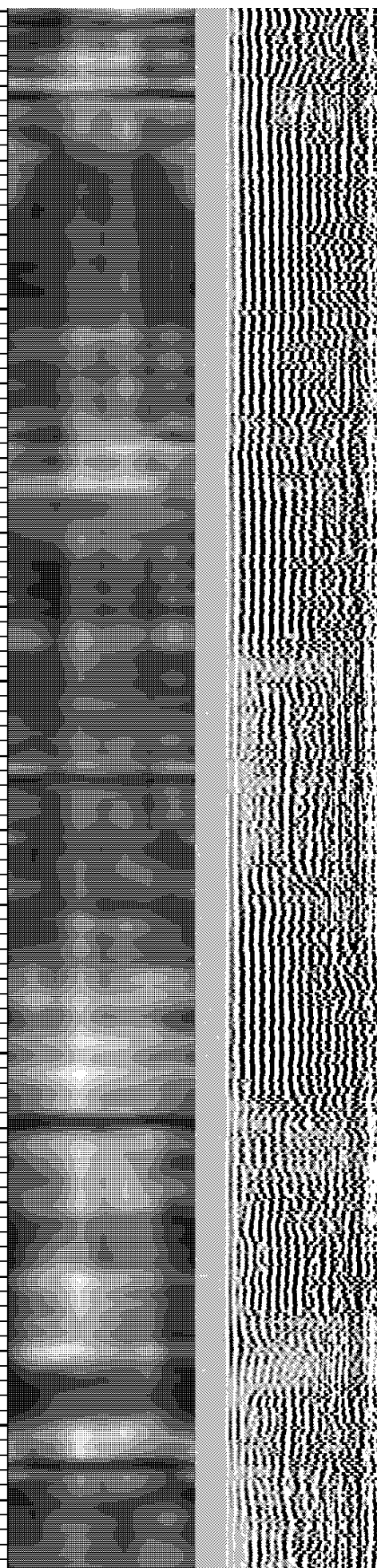
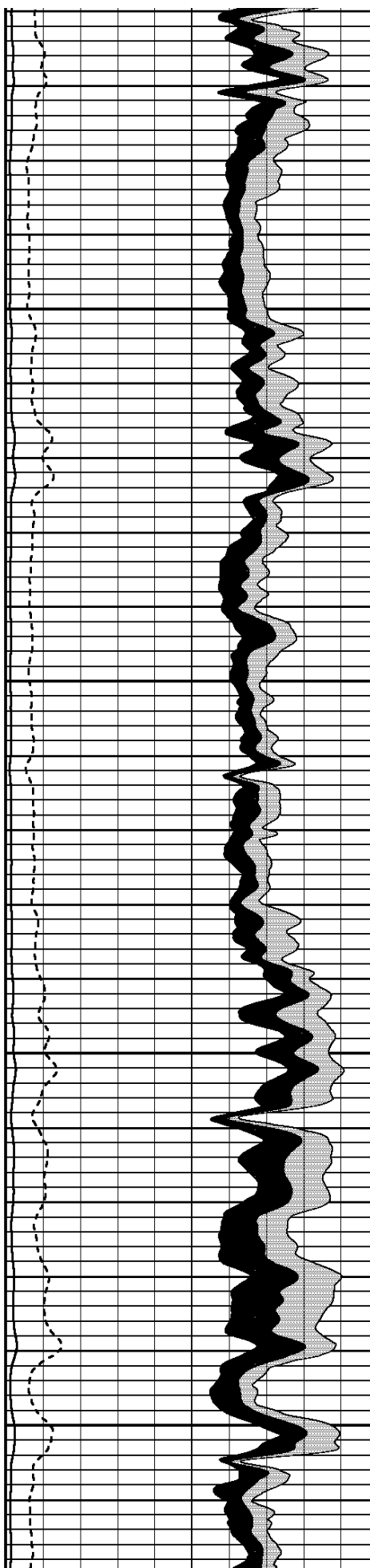
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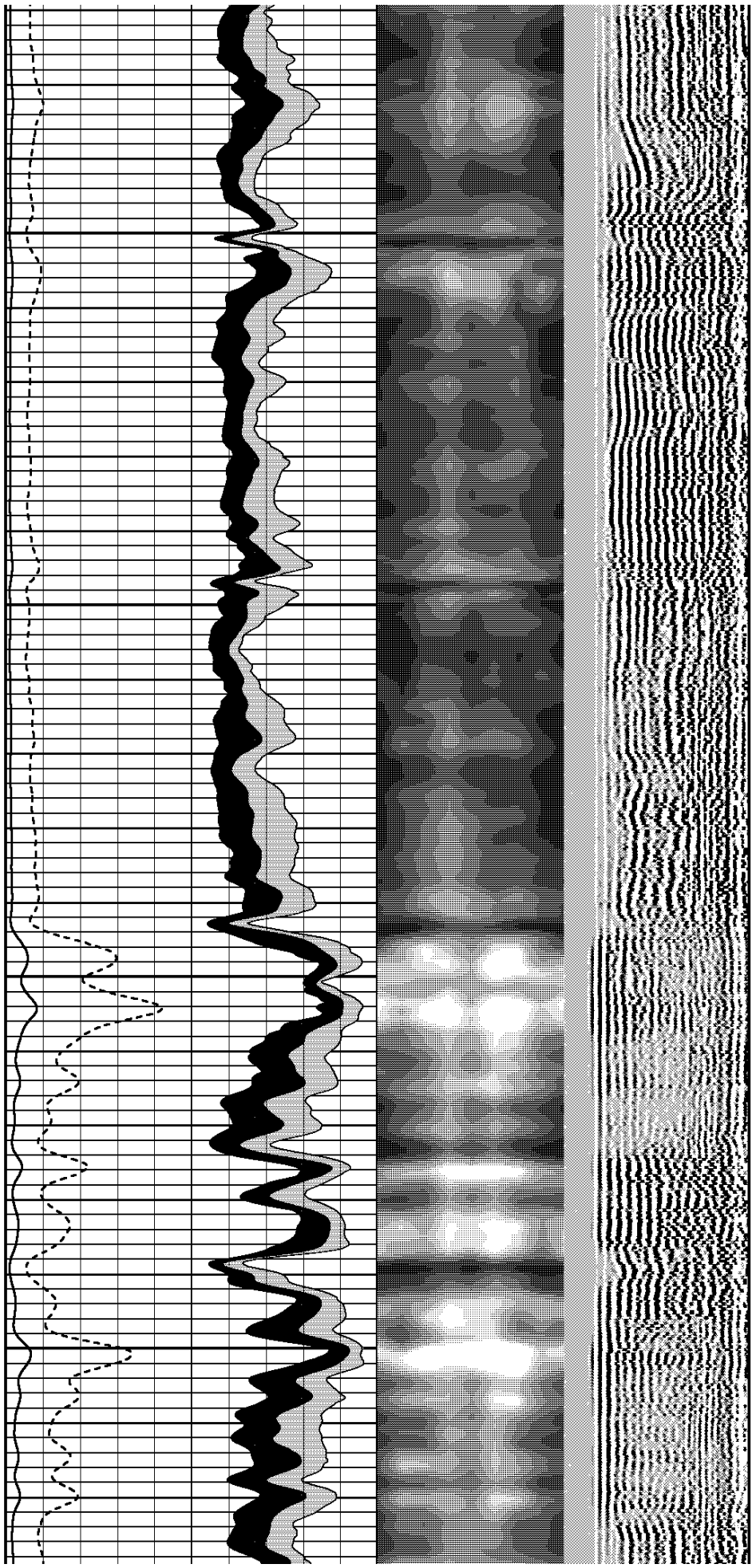
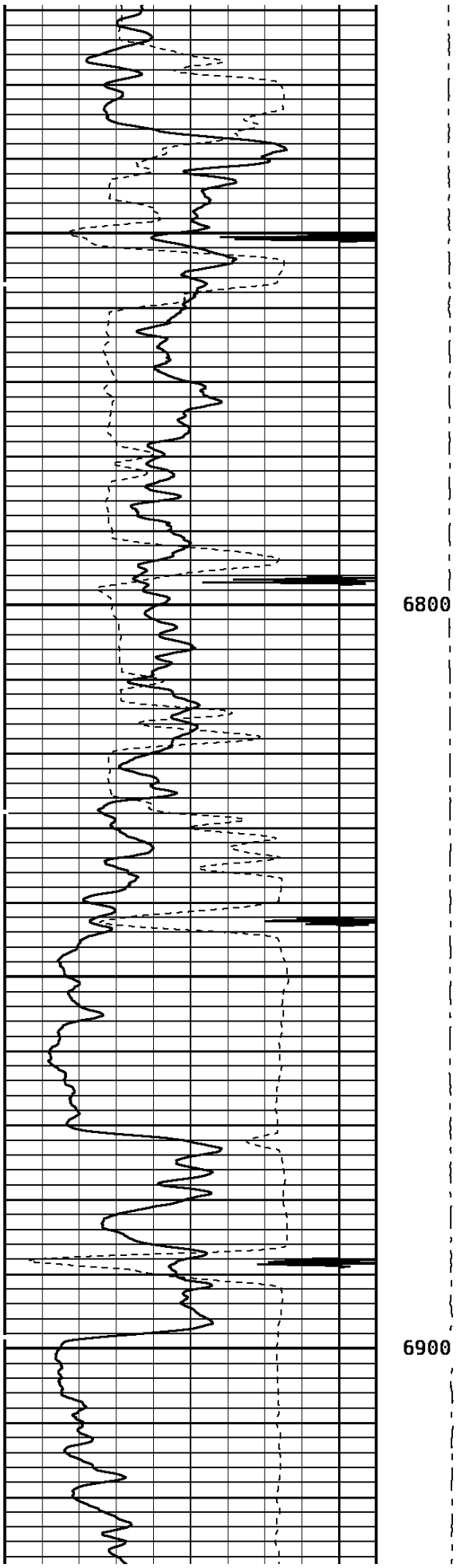


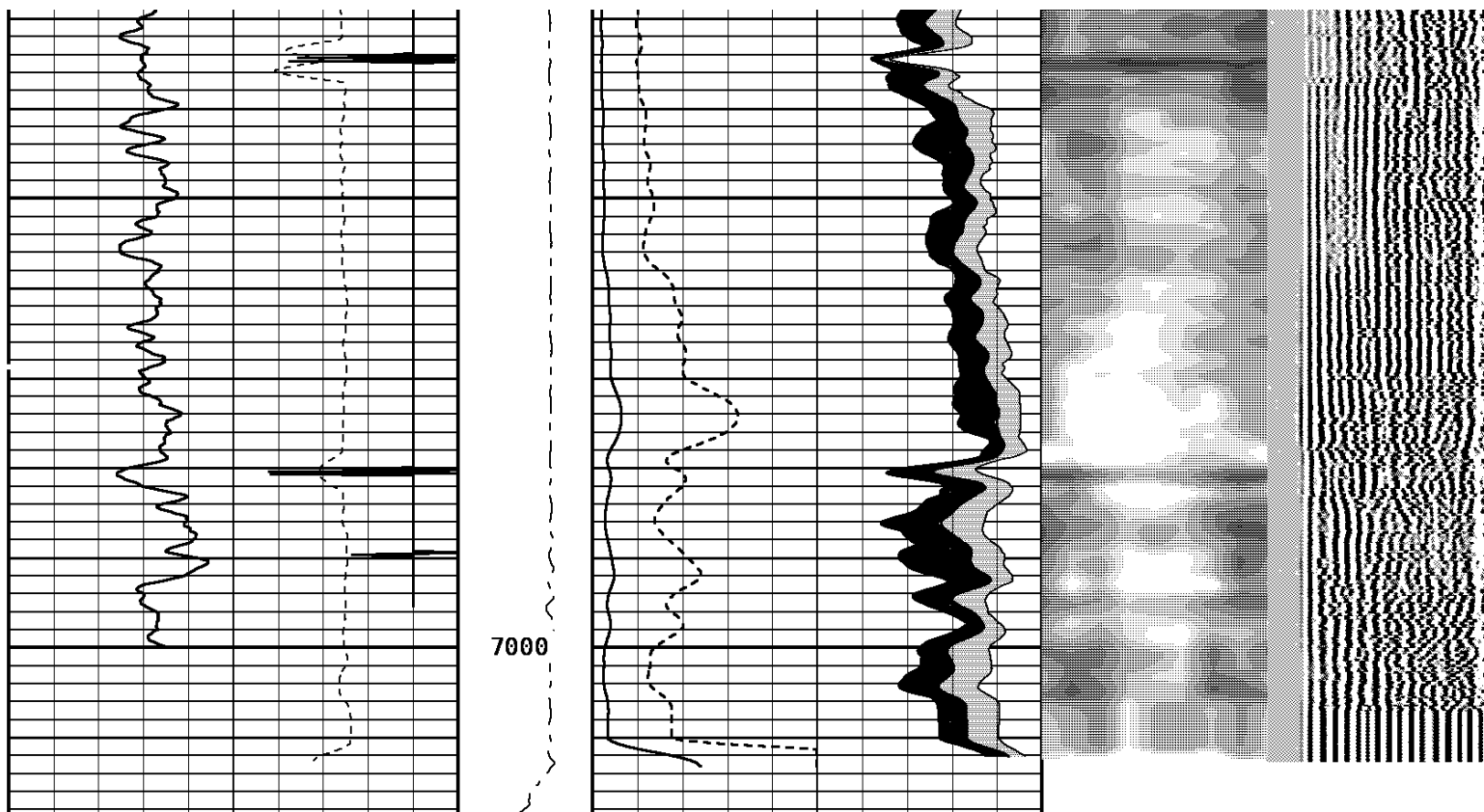


6600

6700







TRAVEL TIME 3FT			Tension		AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERG		VARIABLE DENSI				
305	Microseconds	205			0	mv	100	0	mv	100	0	mv	80	200	us
GAMMA RAY					AMP X 5		AVG ENERGY								
0	API	150			0	mv	20	0						mv	100
CCL							MAX ENERGY								
-3600	Millivolts	400					0	mv						100	

START DEPTH: **7019.0** DIRECTION: **UP** DATE: **11/13/2014** TIME: **16:43** MODE: **ORIGINAL**

103089654 CBLMAIN

MAIN PASS

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

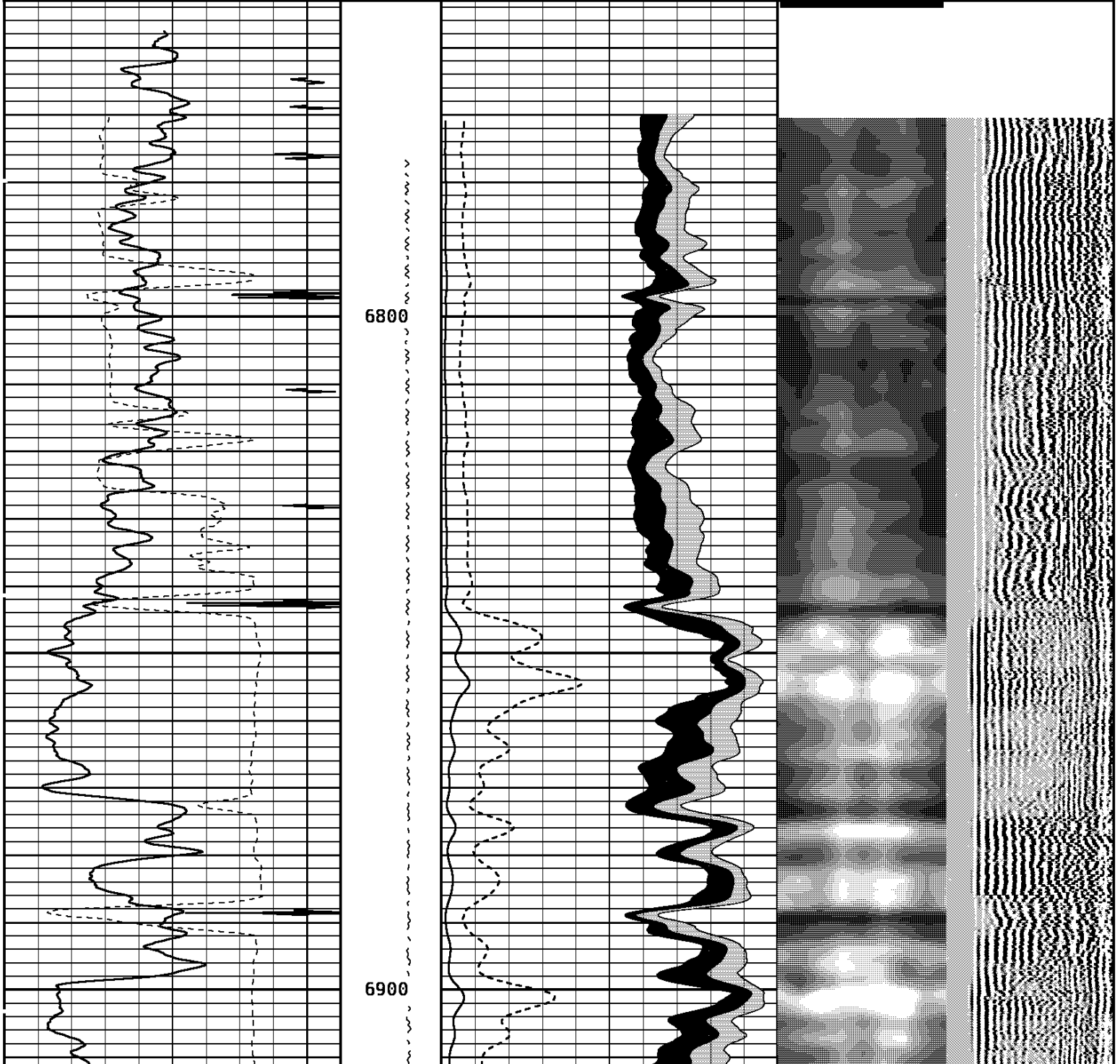
DEPTH SCALE: **5":100'** PROCESSED VERSION: **2012.07.18.162"**

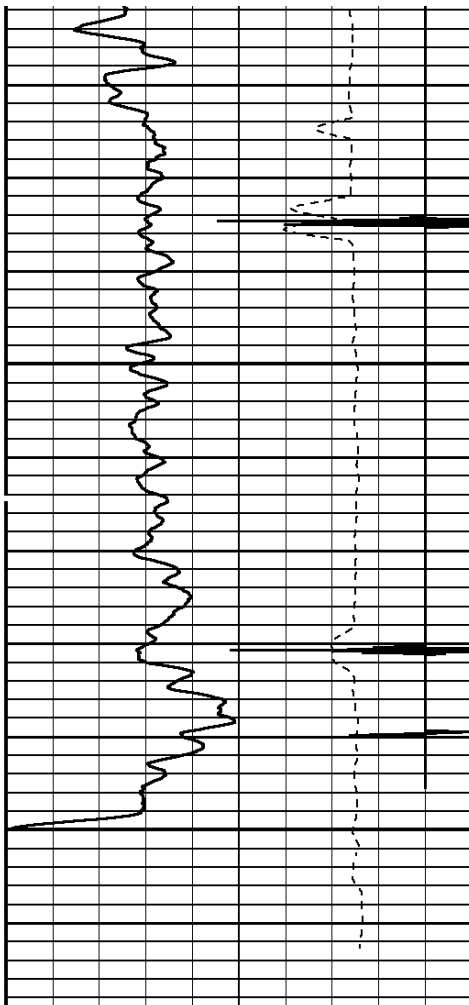
REPEAT PASS

103089654 CBLREPEAT

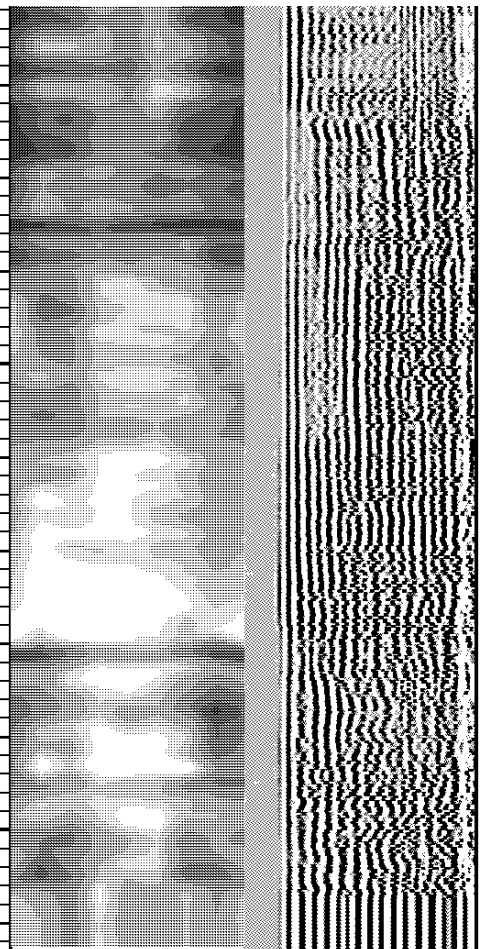
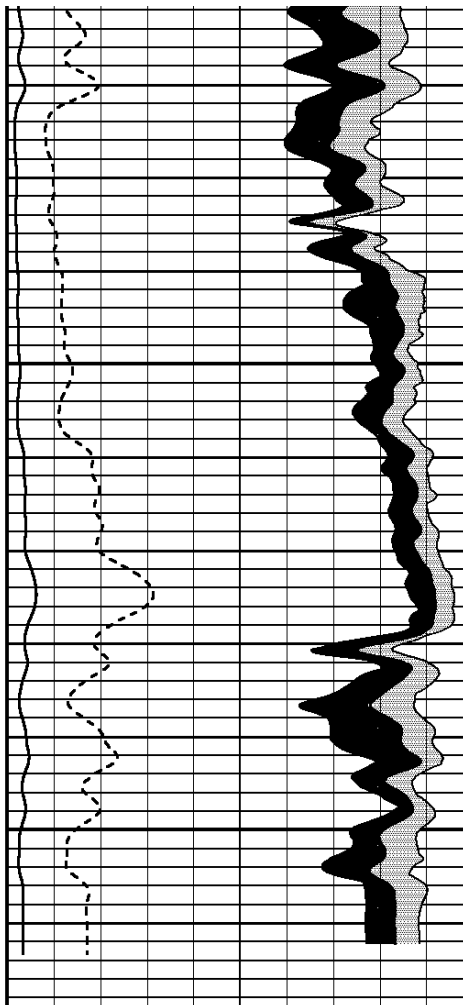
FINISH DEPTH: **6776.7** Feet DIRECTION: **UP** DATE: **11/13/2014** TIME: **16:55** MODE: **ORIGINAL**

CCL			MAX ENERGY		
-3600	Millivolts	400	0	mv	100
GAMMA RAY			AVG ENERGY		
0	API	150	0	mv	100
TRAVEL TIME 3FT			MIN ENERGY		
305	Microseconds	205	0	mv	100
Tension			AMPLITUDE 3FT		
0	2500		0	mv	100
			VARIABLE ENERGY		
			0	mv	80
			VARIABLE DENSI		
			200	us	1200





7000



TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERG		VARIABLE DENSI				
305	Microseconds	205		0	2500	0	mv	100	0	mv	80	200	us	1200
GAMMA RAY				AMP X 5		AVG ENERGY								
0	API	150		0		0	mv	20	0	mv	100			
CCL					MAX ENERGY									
-3600	Millivolts	400					0	mv	100					

START DEPTH: 7019.1 DIRECTION: UP DATE: 11/13/2014 TIME: 16:54 MODE: ORIGINAL

103089654 CBLREPEAT

REPEAT PASS

DEPTH SCALE: 5":100'

LOGGED VERSION: 2012.07.18.162"

11/13/14

11:57

967.8 F

Ver 162R 2.0b

Job 10308998

Sector Bond Before Calibration

Tool Type SBT-AA

Serial No

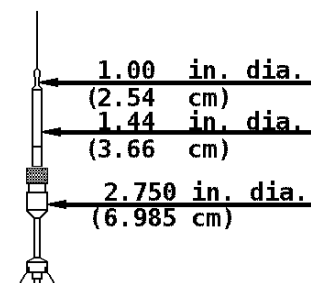
SBTA240

Sensor	Description	Standard	Measured
AMP 3FT	ZERO	1.00	36.70
	PLUS	81.00	3004.40
AMP 5FT	ZERO	0.00	5.90
	PLUS	100.00	4170.40
1 SECTOR AMP	ZERO	5.00	193.30
	PLUS	95.00	1930.20
2 SECTOR AMP	ZERO	5.00	159.00
	PLUS	95.00	1959.30
3 SECTOR AMP	ZERO	5.00	98.00
	PLUS	95.00	1917.10
4 SECTOR AMP	ZERO	5.00	169.30
	PLUS	95.00	2080.30
5 SECTOR AMP	ZERO	5.00	123.00
	PLUS	95.00	1885.60
6 SECTOR AMP	ZERO	5.00	131.80
	PLUS	95.00	2049.50
7 SECTOR AMP	ZERO	5.00	89.20
	PLUS	95.00	1834.40
8 SECTOR AMP	ZERO	5.00	221.90
	PLUS	95.00	1907.30

1 7/16 Adapter Head

Weight 2.2 LB.
 Length 2.54
 Max. Diameter 1.44 IN.

Total Stack Weight 223.0 LBS. in air
 Total Stack Length 27.83 FT.



Slim Hole Centralizer

Weight	15 lbs
Length	2.49 FT.
Max. Diameter	2.750 IN.

Collar Locator

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

Slim Hole Gamma Ray

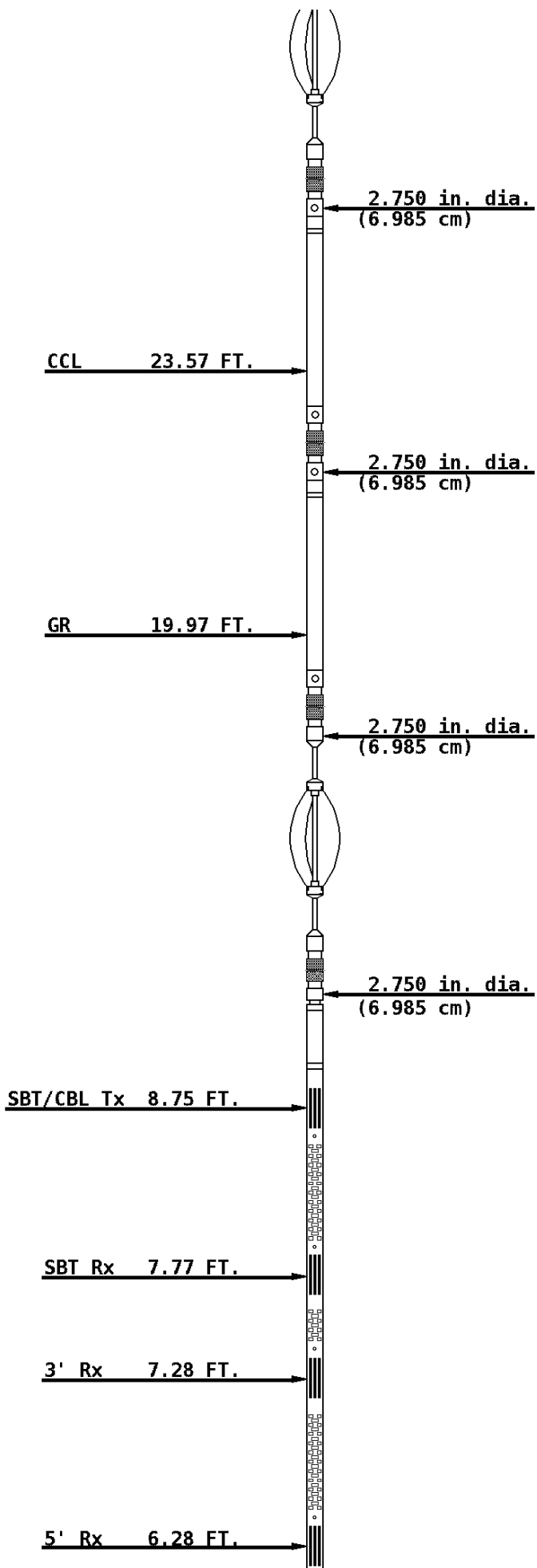
Weight	39.8 LBS.
Length	4.71 FT.
Max. Diameter	2.750 IN.

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.

Tool Zero

2.750 in. dia.
(6.985 cm)



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