



Weatherford

SECTOR BOND LOG

COMPANY URSA OPERATING RESOURCES
WELL McLIN B6
FIELD SILT
CNTY GARFIELD STATE CO

COMPANY URSA OPERATING COMPANY
WELL McLIN B6
FIELD SILT
COUNTY GARFIELD
STATE COLORADO

LOCATION:
SHL: 1265' FNL & 0406' FEL
BHL: 0885' FNL & 0742' FWL
SEC.13 TWP.6S RGE92W

OTHER SERVICES:
GR/ JB
PND

PERM. DATUM GROUND LEVEL ELEV. 5648'
LOG MEASURED FROM K.B. 13 FT. ABOVE PERMANENT DATUM ELEV.: K.B. 5661
D.F. 5661
DRILLING MEASURED FROM K.B. G.L. 5648

DATE 13-NOV-2014

RUN NO. ONE

DEPTH DRILLER 7258'

DEPTH LOGGER 7081'

BIT. LOG INTERVAL 7076'

TOP LOG INTERVAL 1000'

OPEN HOLE SIZE 7.875"

TYPE FLUID WATER

DENS. VISC. 8.3 0.00

MAX. REC. TEMP. F 176 DEG F.

EST. CEMENT TOP SEAL LOG

TIME WELL READY ROA

TIME LOGGER ON BIT. SEE LOG

EQUIP. NO. 14247

LOCATION CASPER

RECORDED BY P. MAZUR

WITNESSED BY L. GREGGER

BOREHOLE RECORD

RUN NO. BIT FROM TO

SIZE FROM TO

WT/FT GRADE

TYPE JOINT

TOP

BOTTOM

TUBING RECORD

SIZE WGT. FROM TO

TYPE JOINT

TOP

BOTTOM

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 176 °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	CENC	220	

DEPTH SCALE: 5":100'

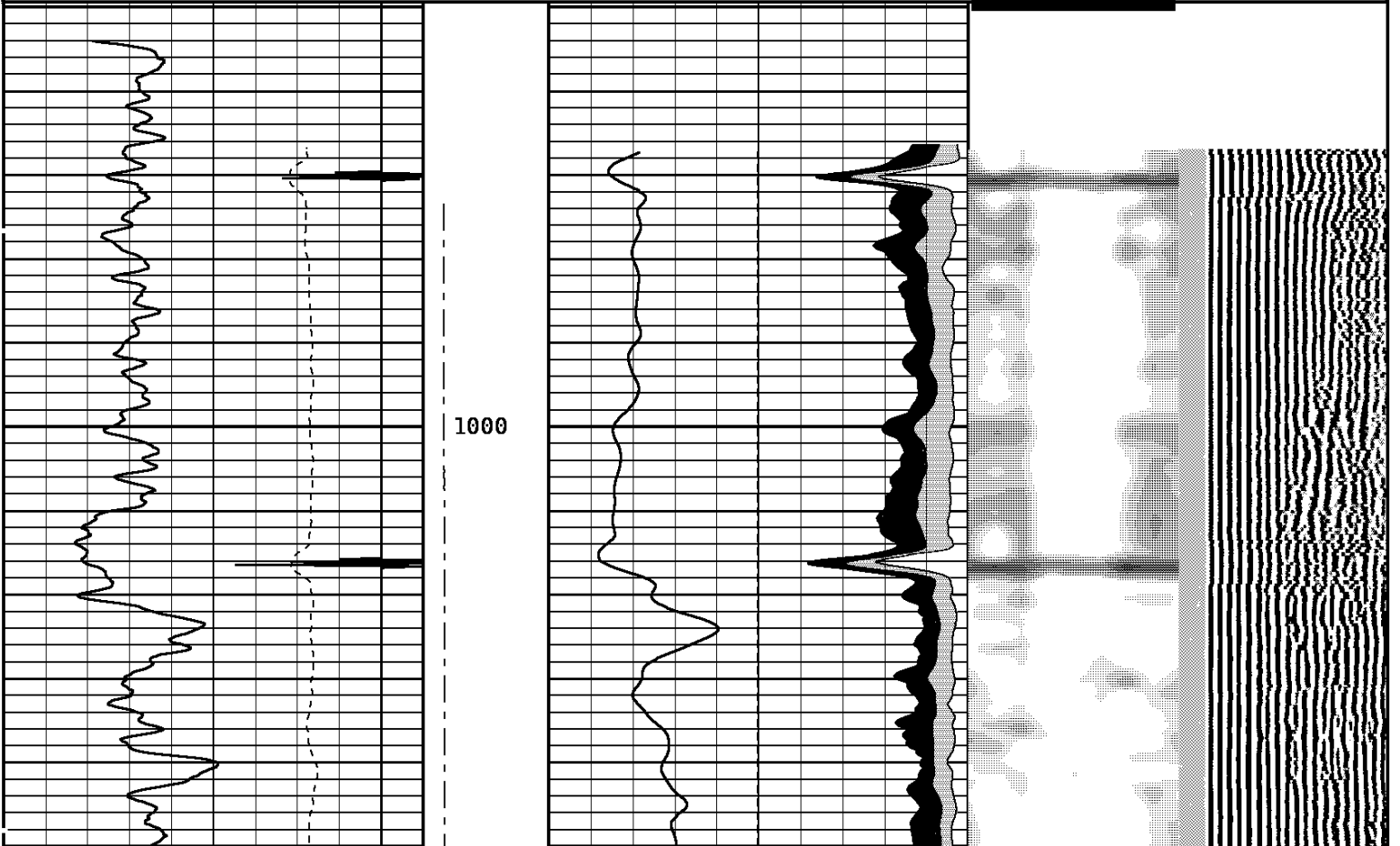
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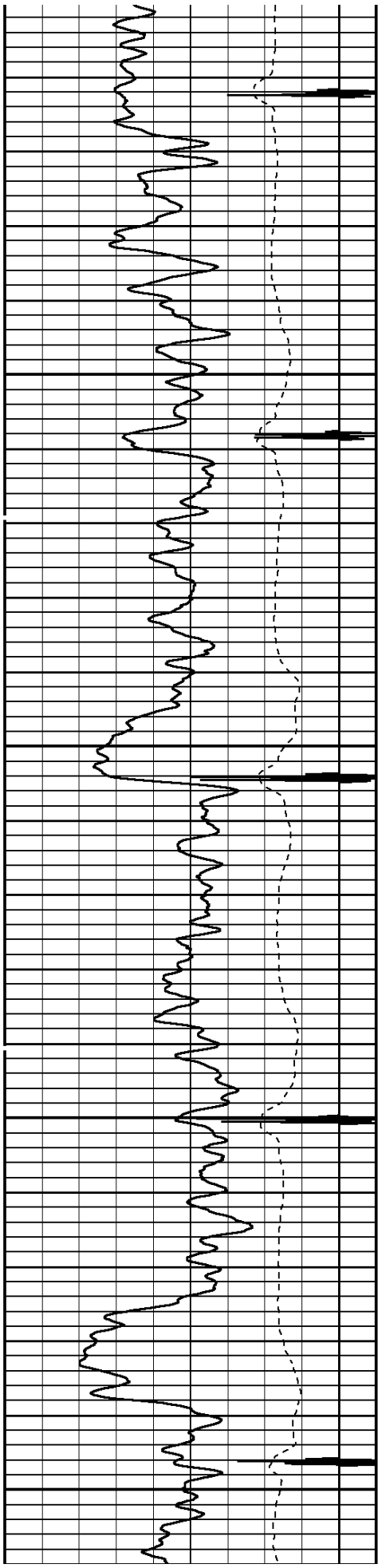
MAIN PASS

103088681 CBLMAIN

FINISH DEPTH: 973.1 Feet DIRECTION: UP DATE: 11/14/2014 TIME: 03:02 MODE: ORIGINAL

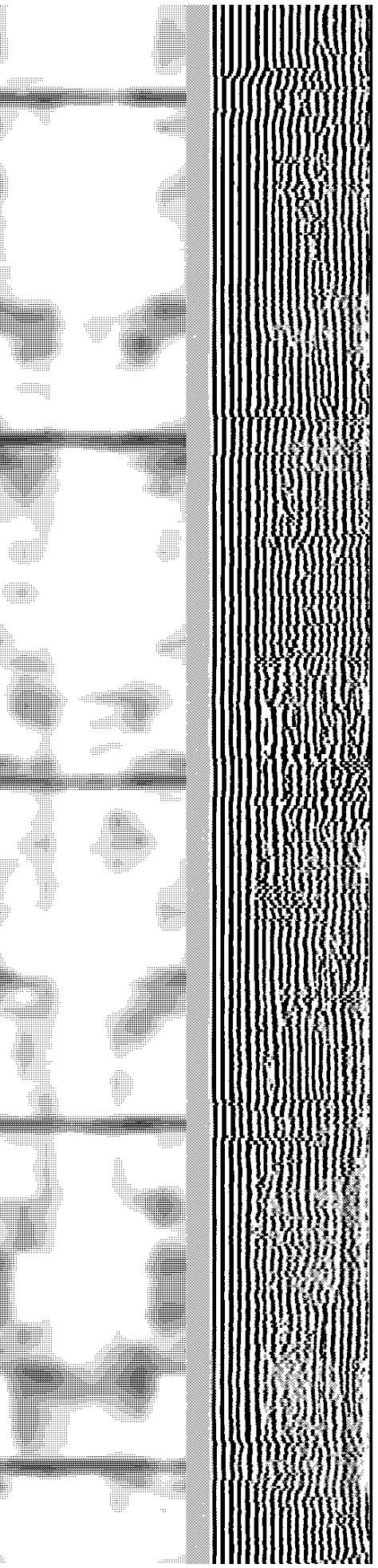
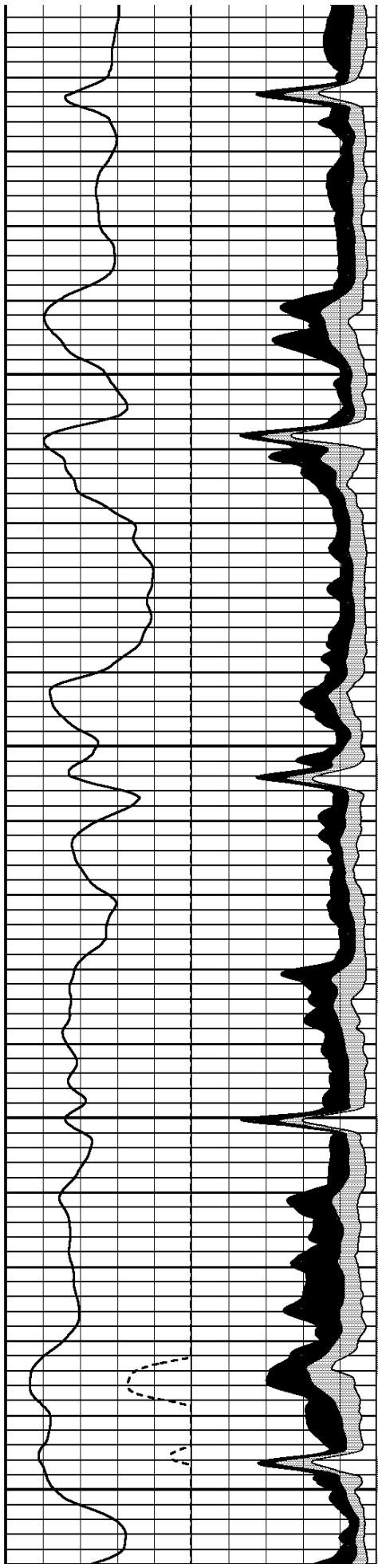
CCL			MAX ENERGY			GAMMA RAY			AMP X 5			AVG ENERGY			TRAVEL TIME 3FT			Tension			AMPLITUDE 3FT			MIN ENERGY			VARIABLE ENERGY			VARIABLE DENSI		
-3600	Millivolts	400	0	mv	100	0	API	150	0	mv	20	0	mv	100	305	Microseconds	205	0	2500	0	mv	100	0	mv	100	0	mv	80	200	us	1200	

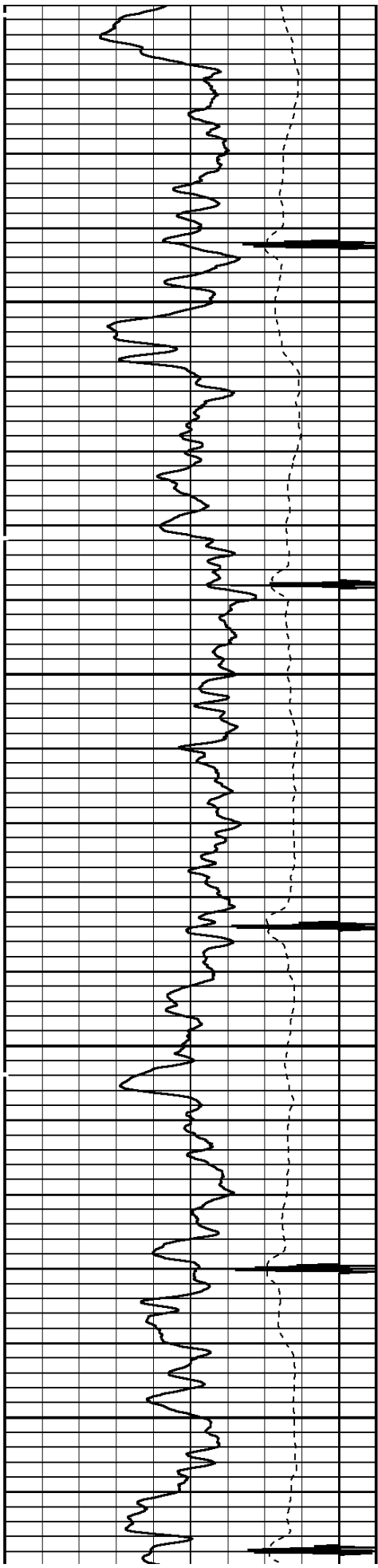




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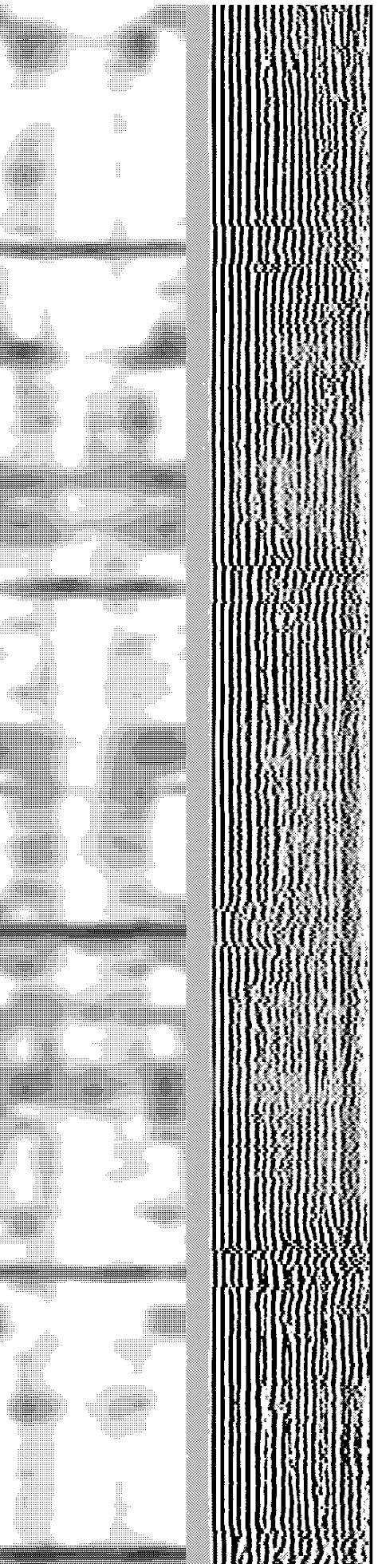
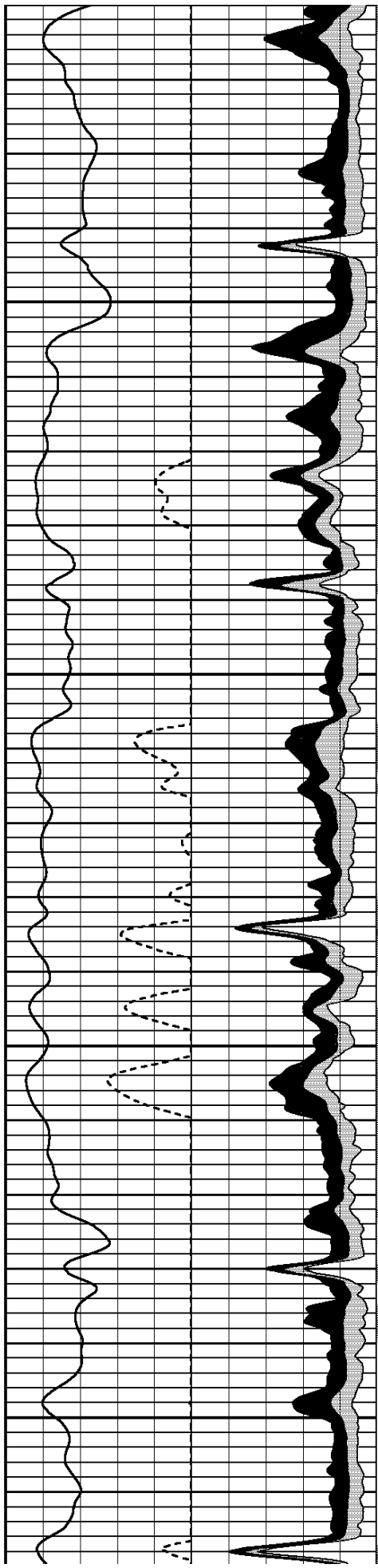
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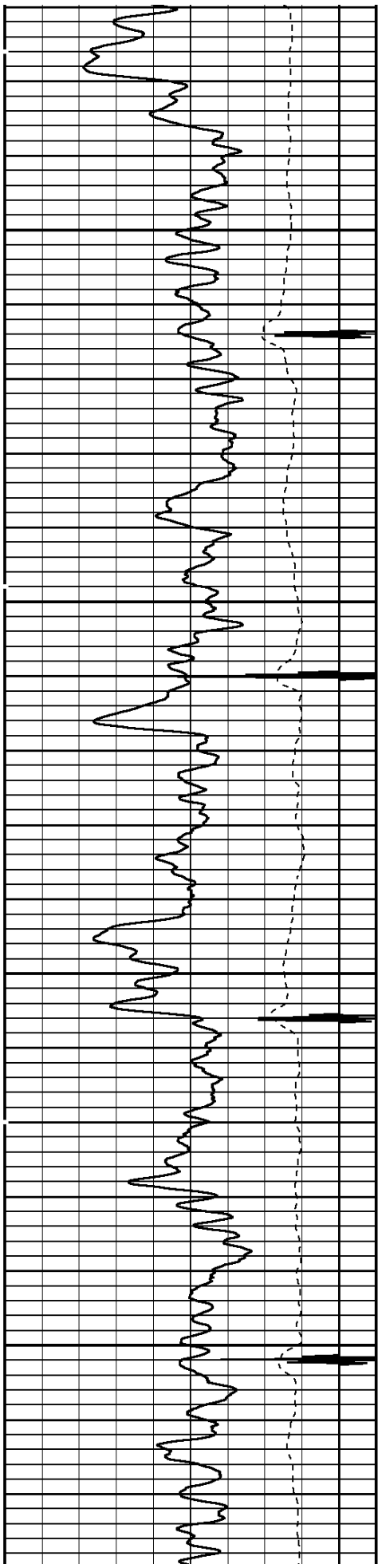




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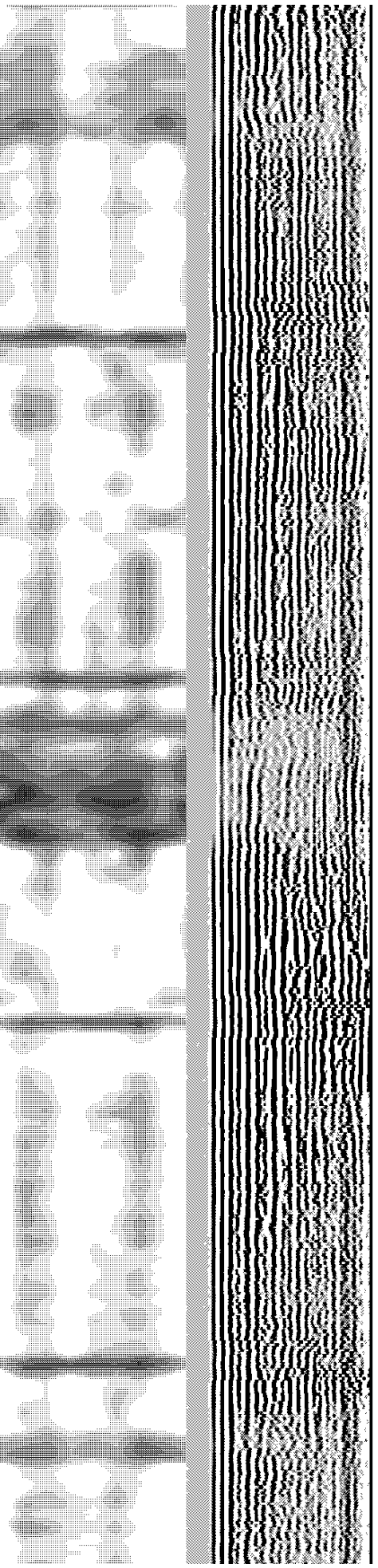
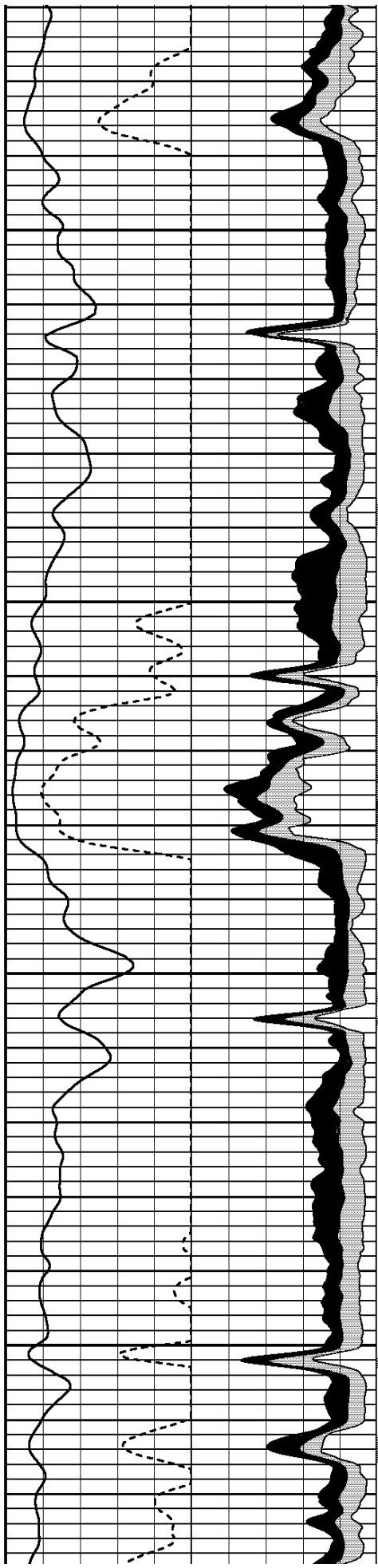
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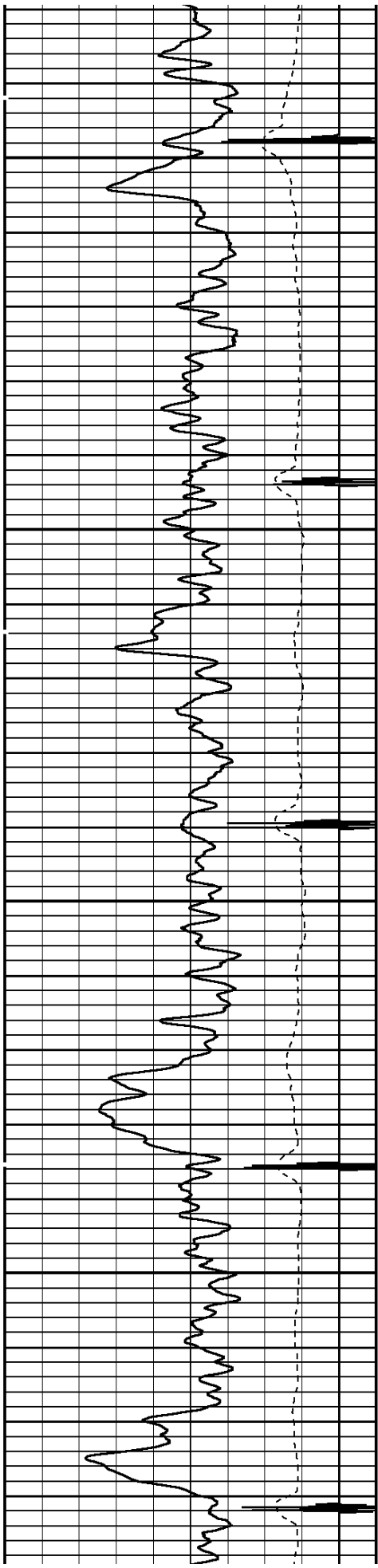




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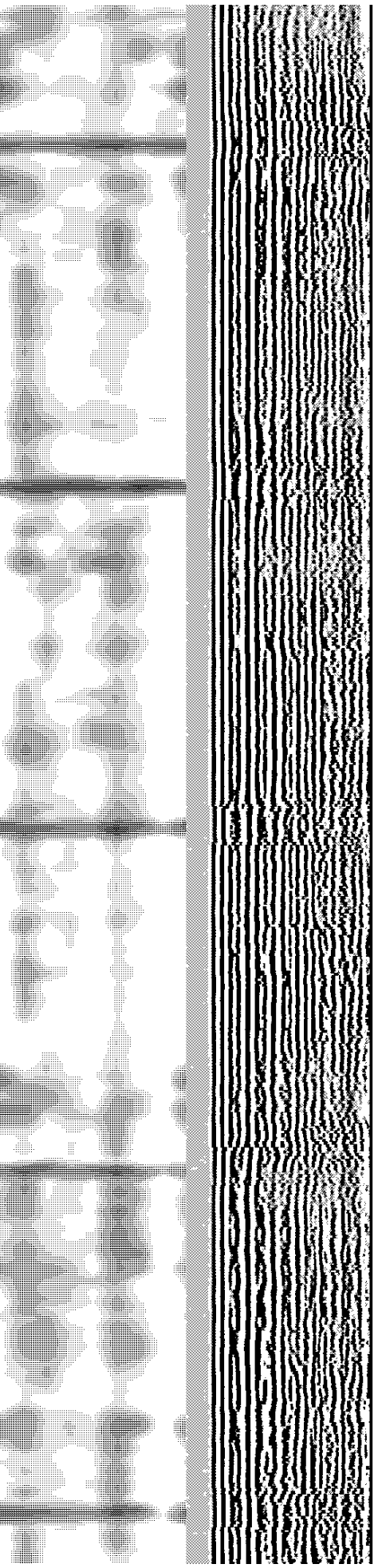
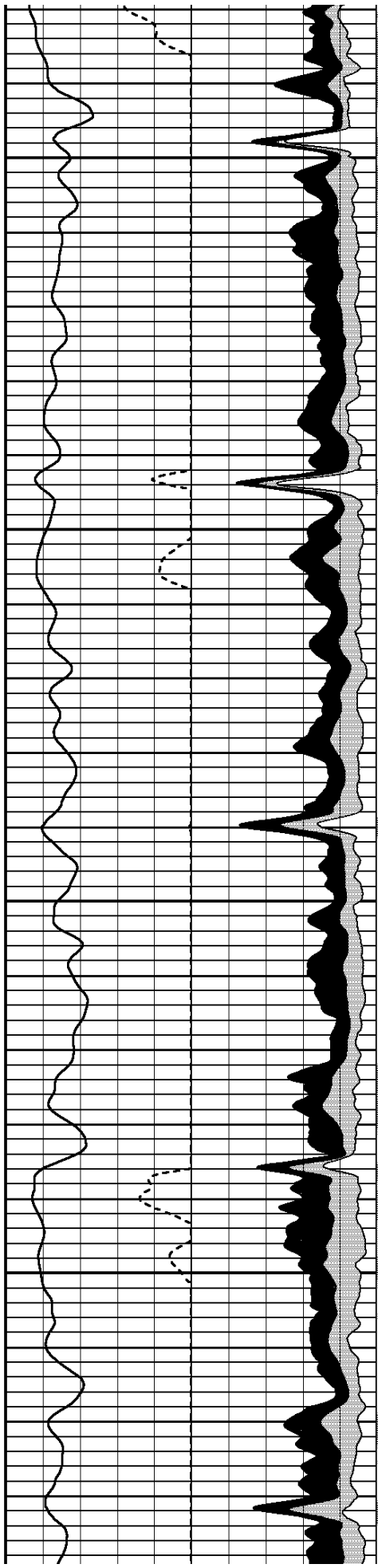
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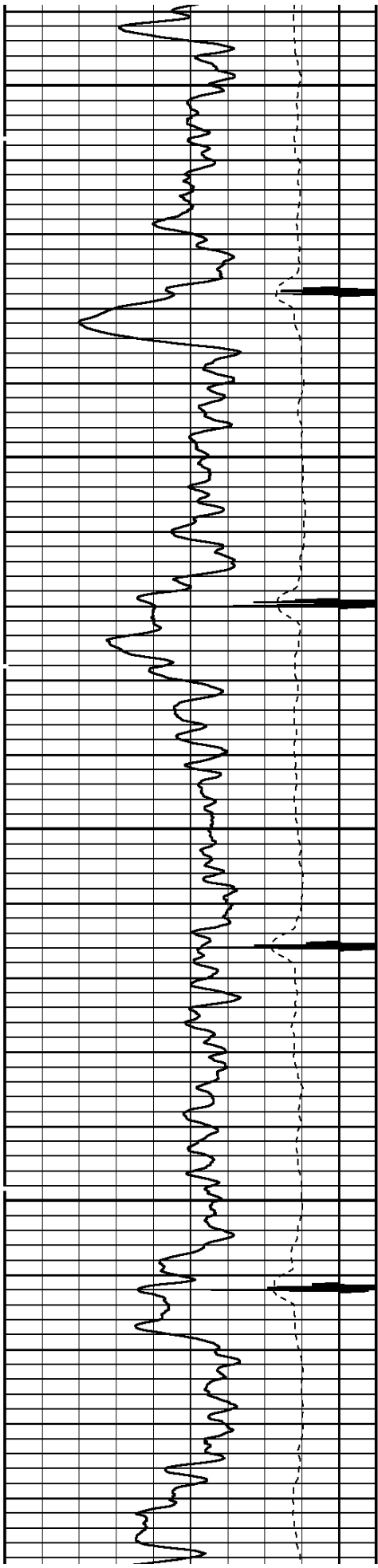




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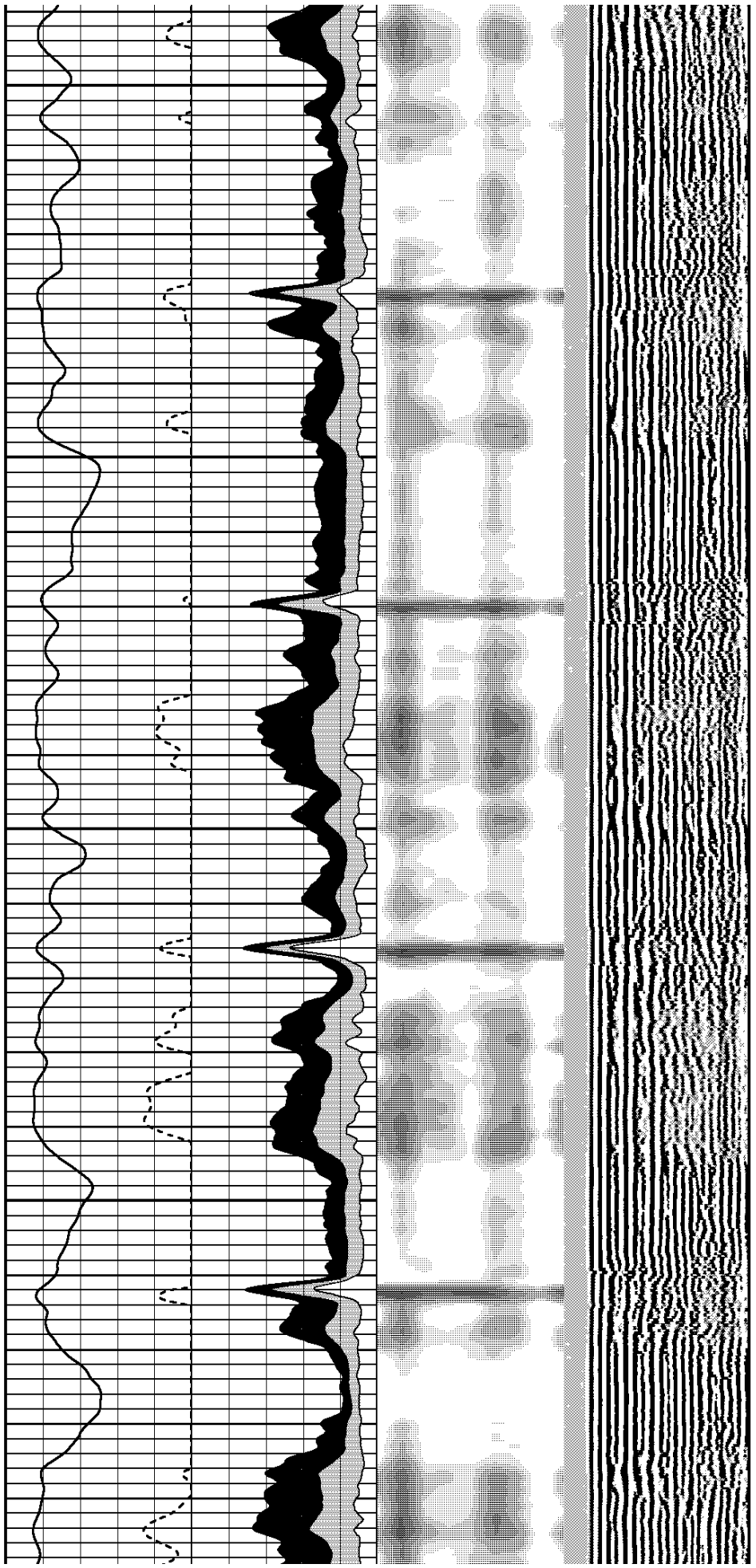
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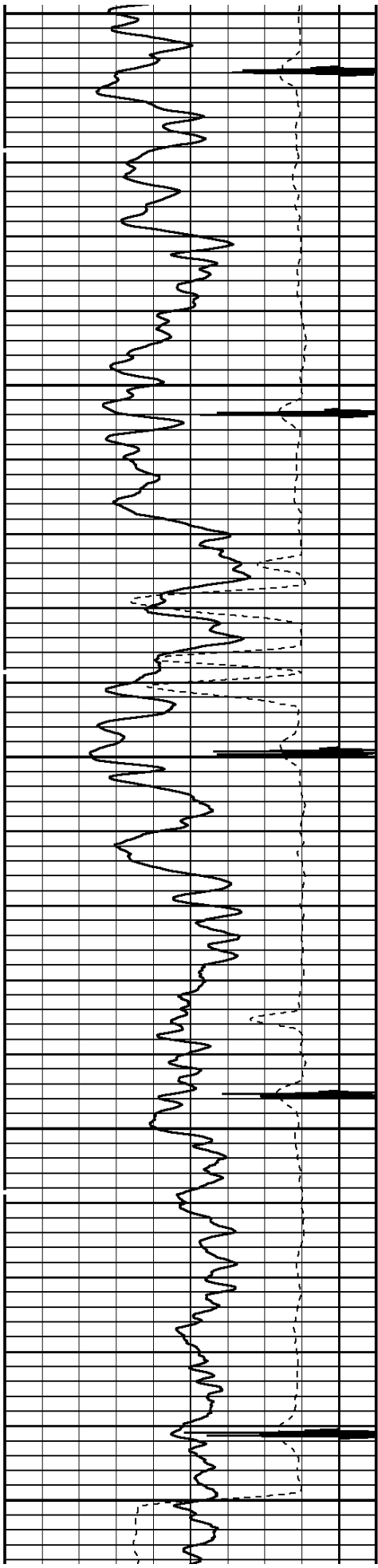




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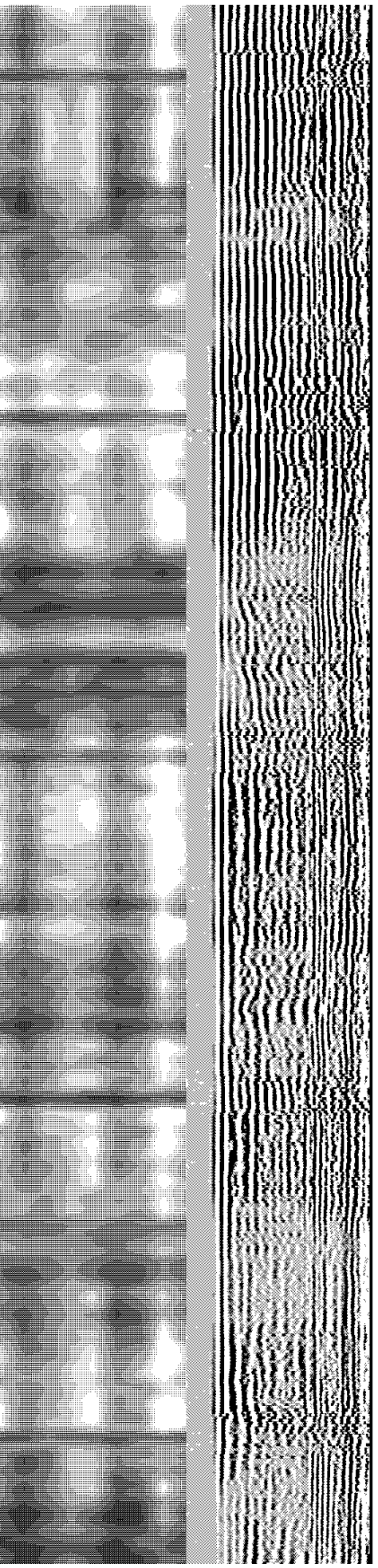
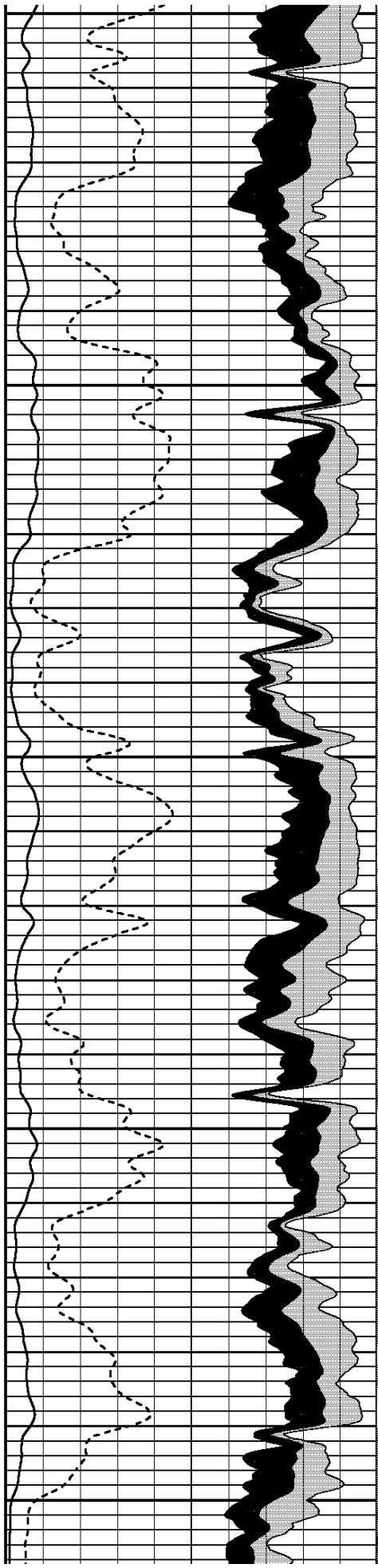


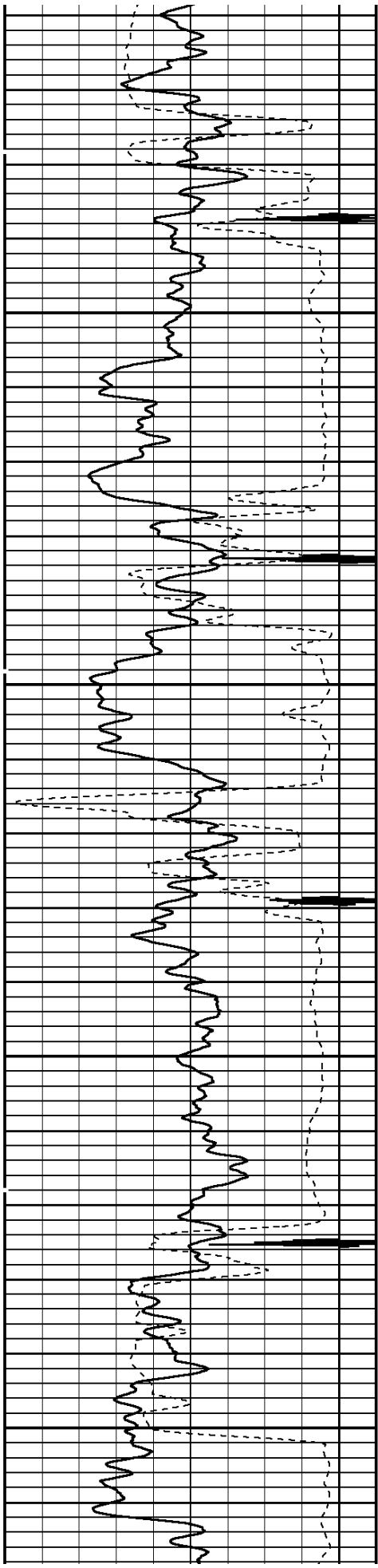


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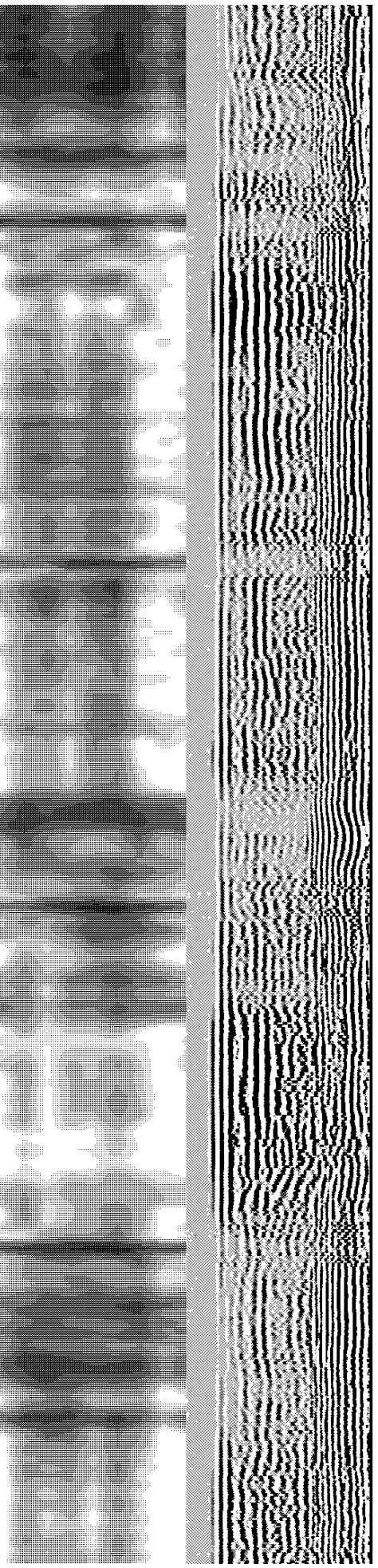
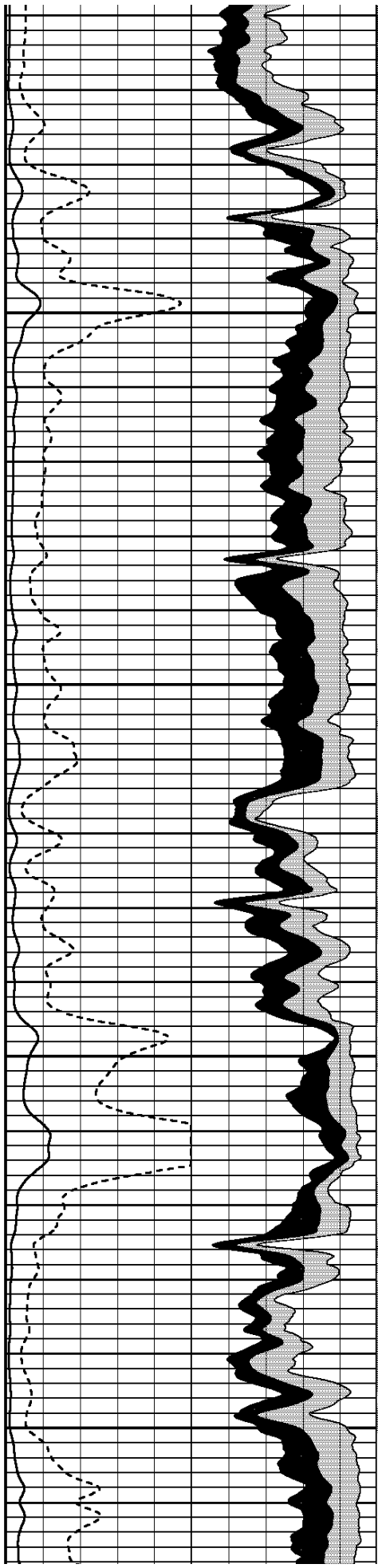
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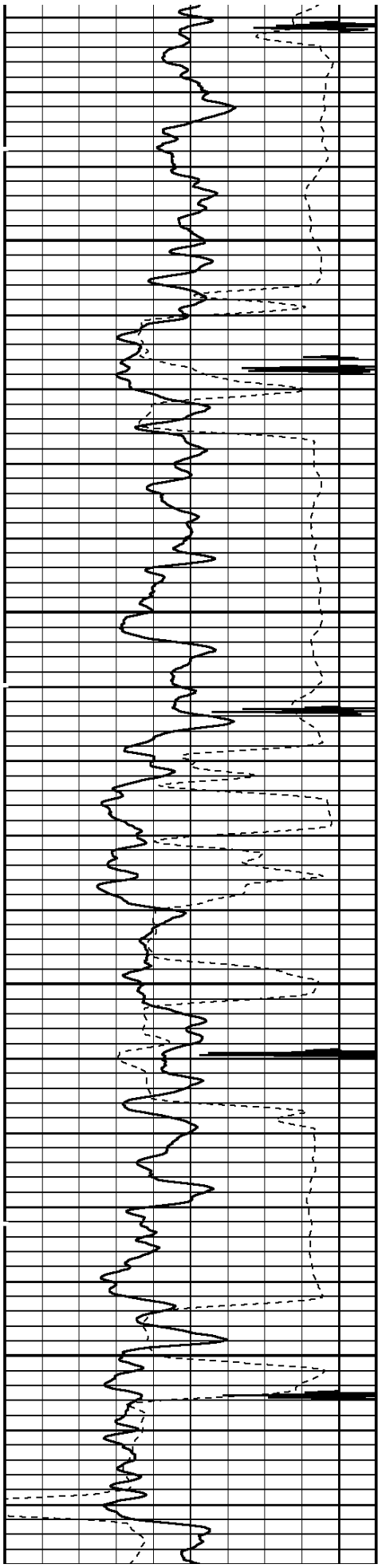




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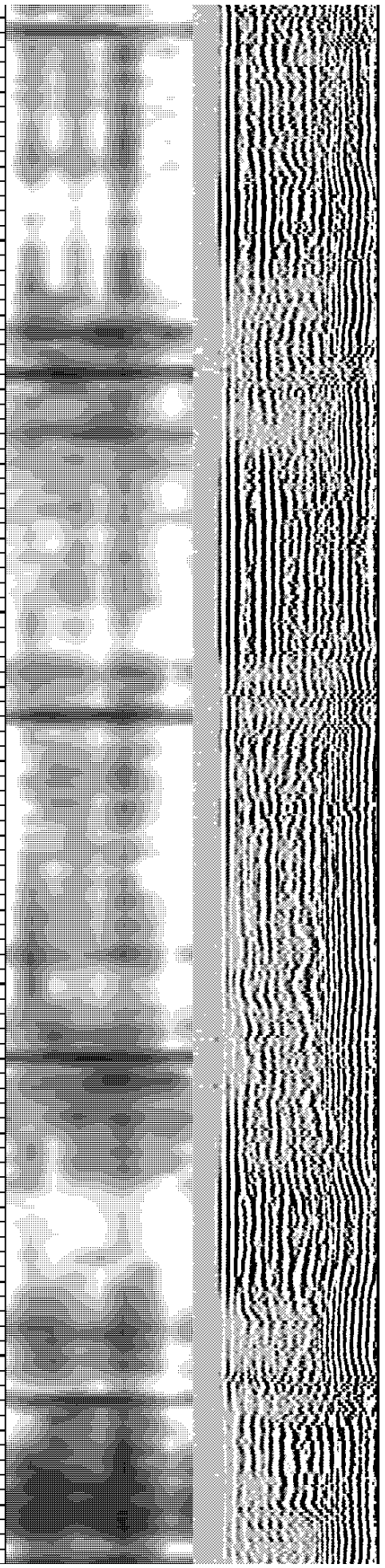
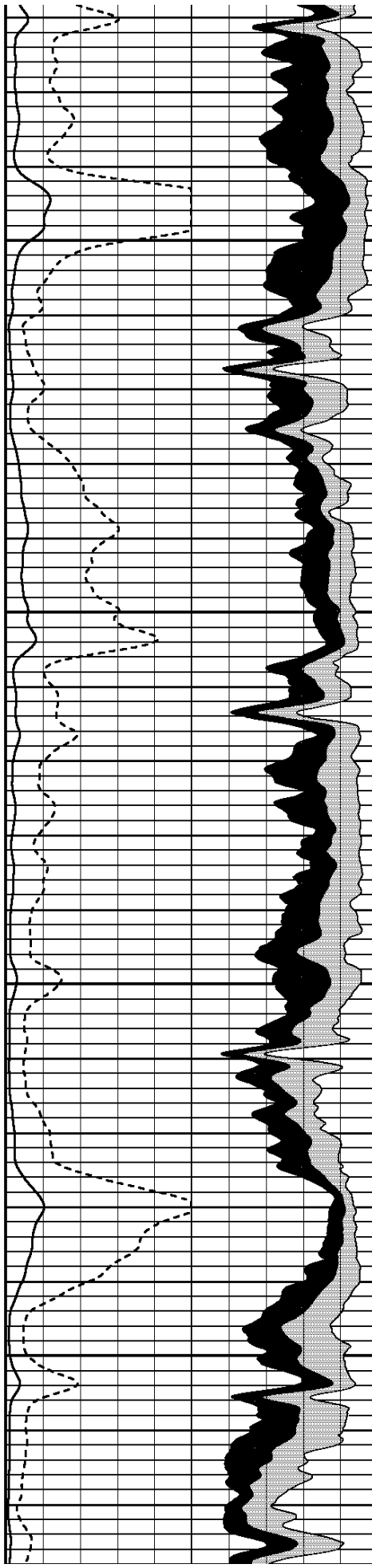
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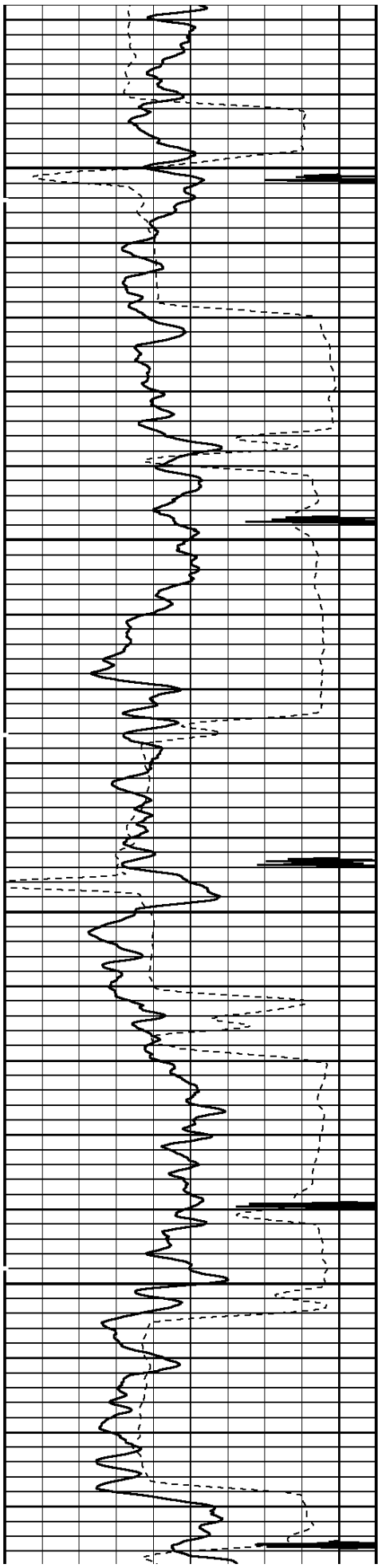




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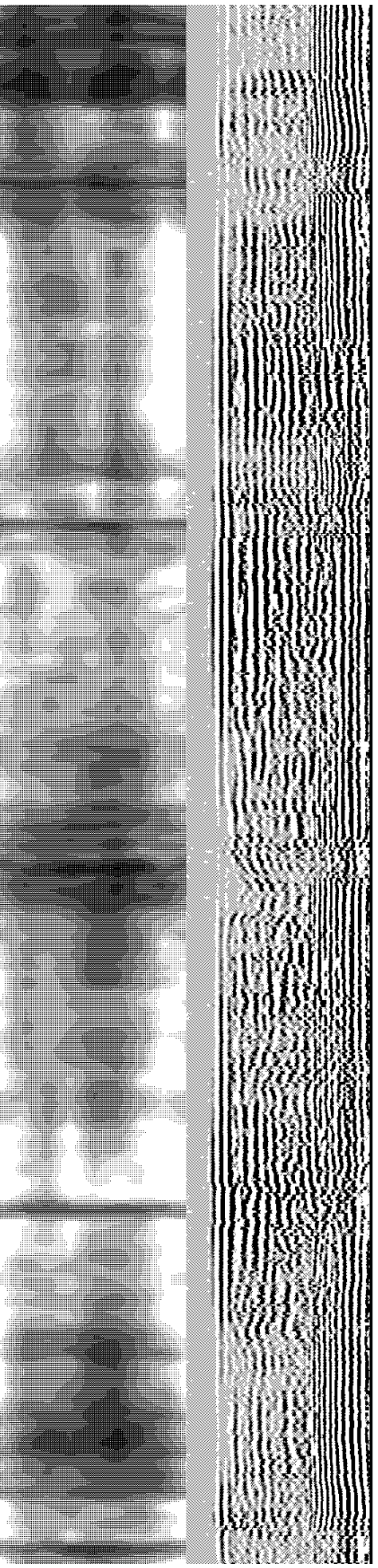
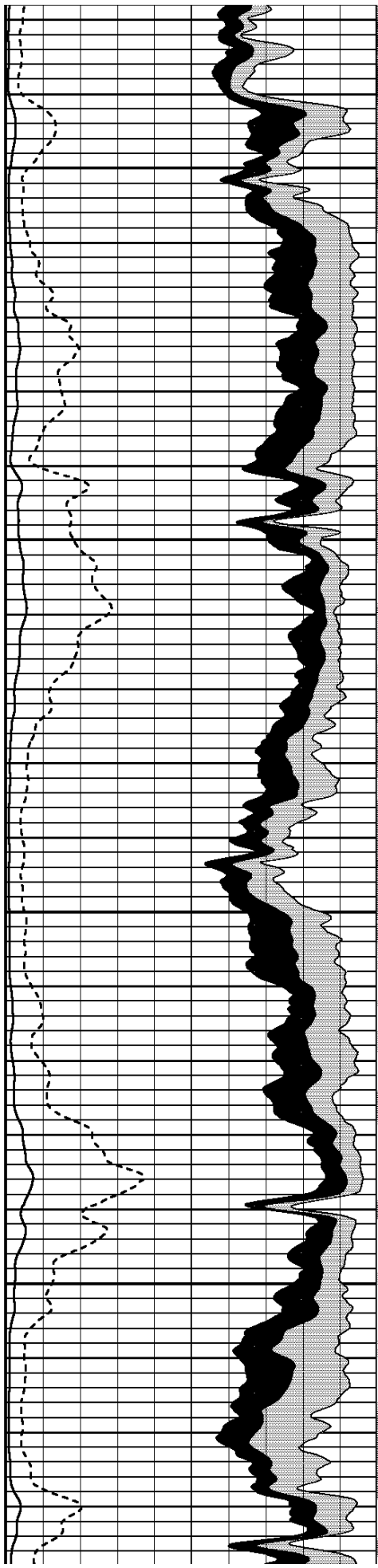
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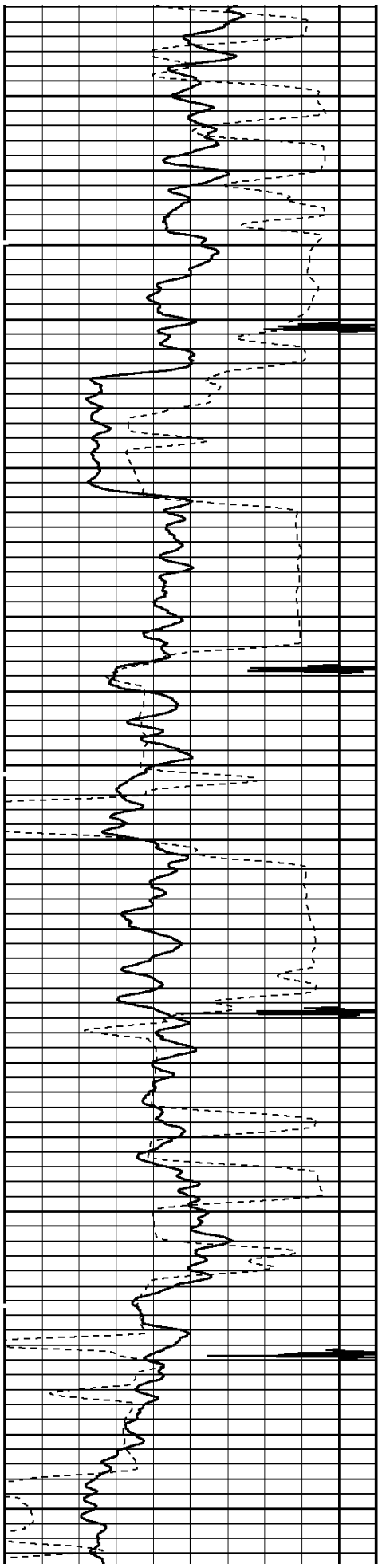




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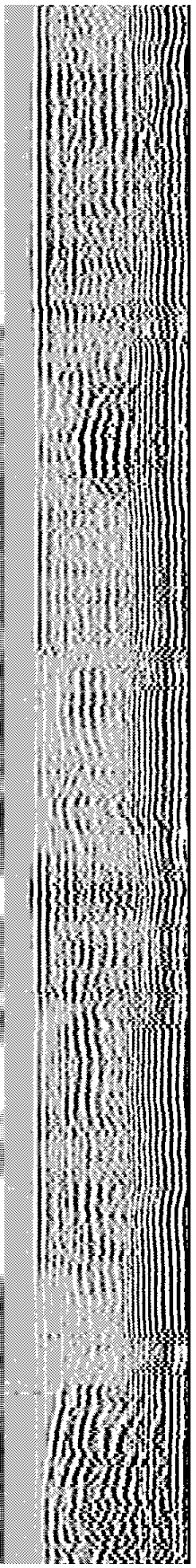
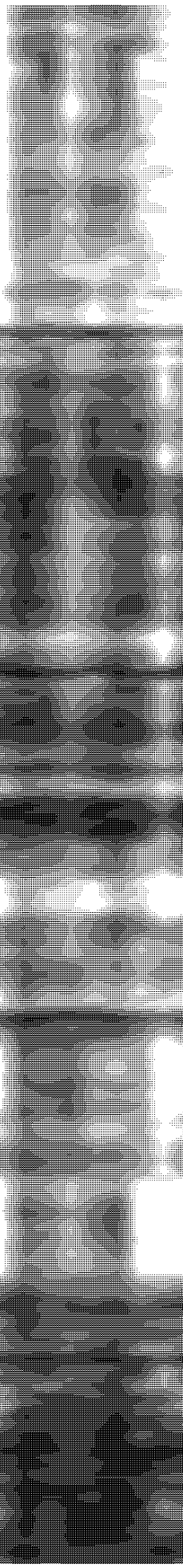
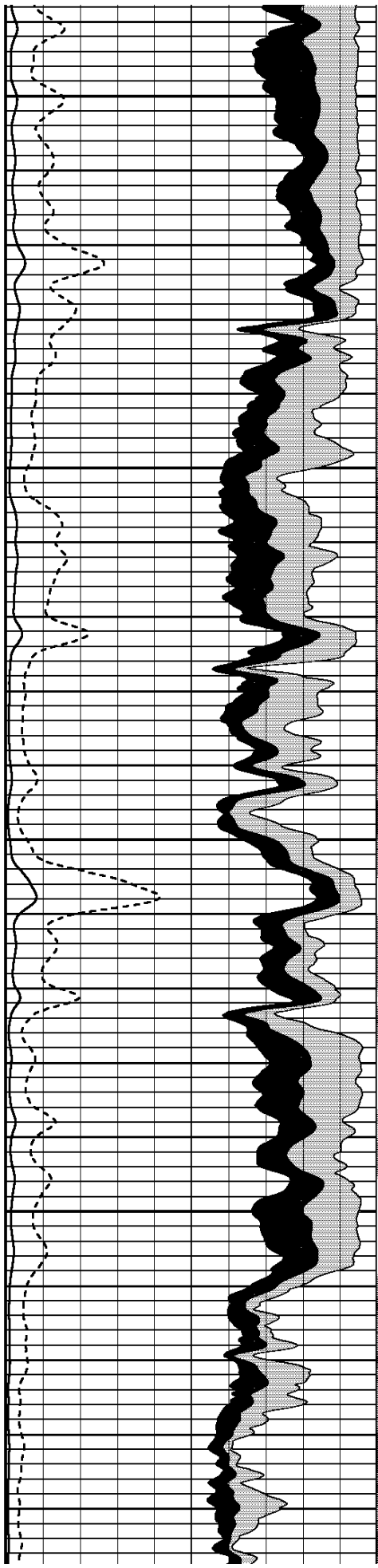
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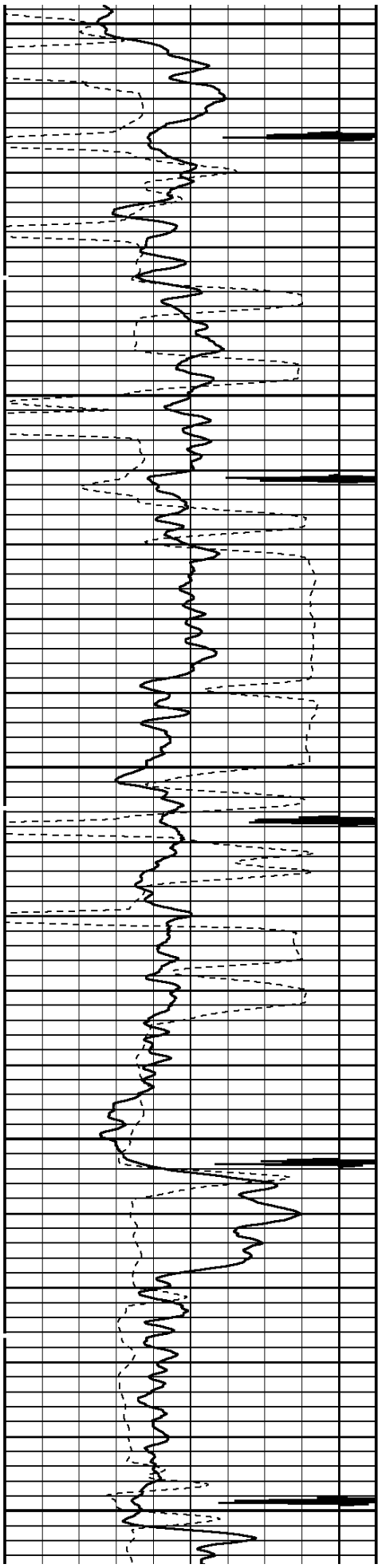




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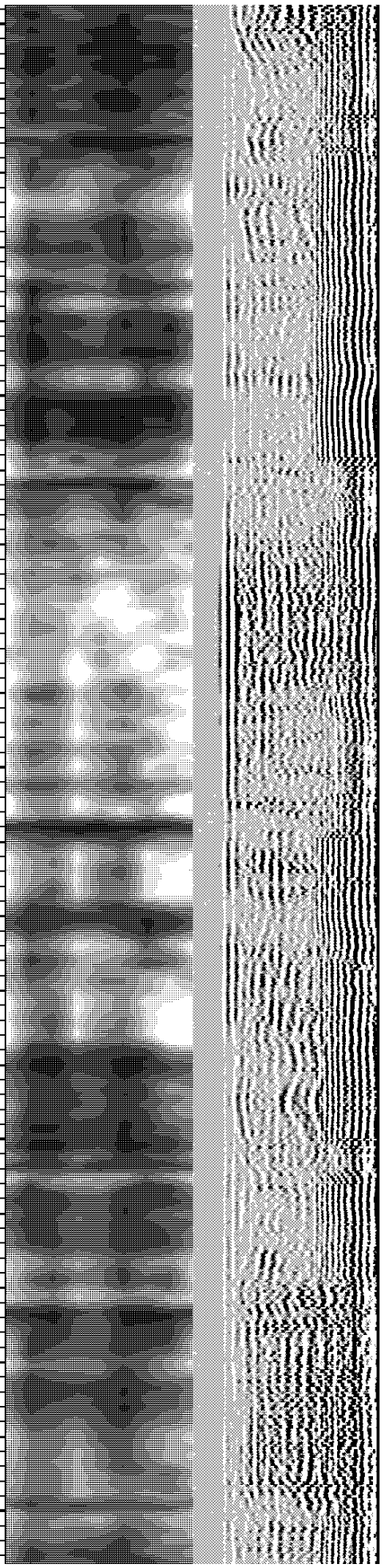
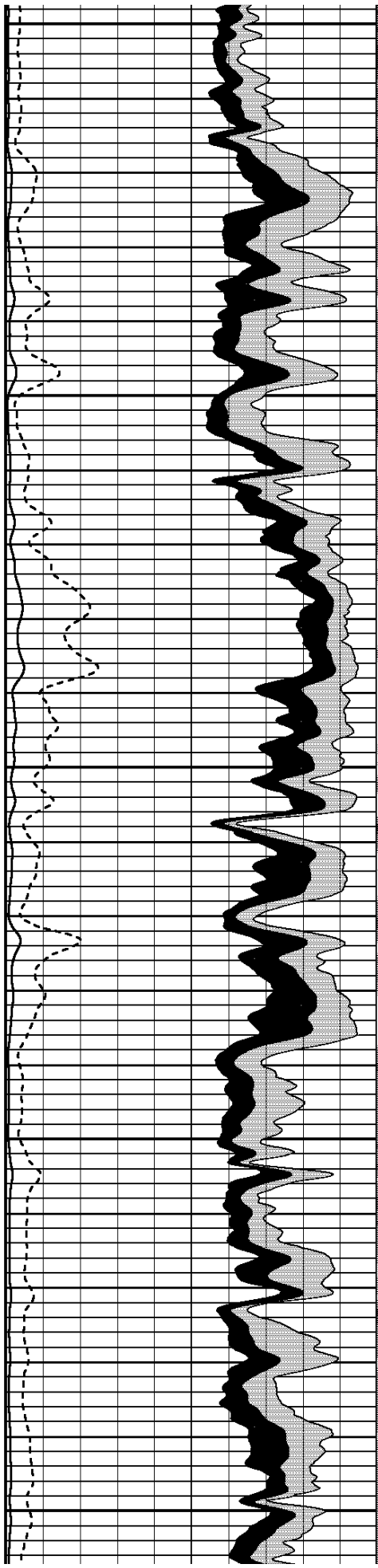
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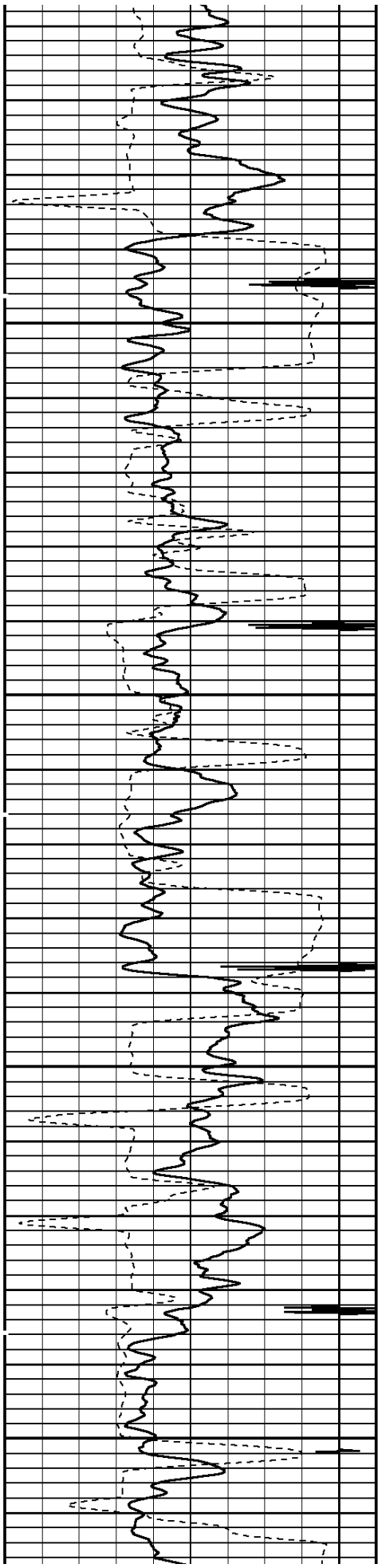




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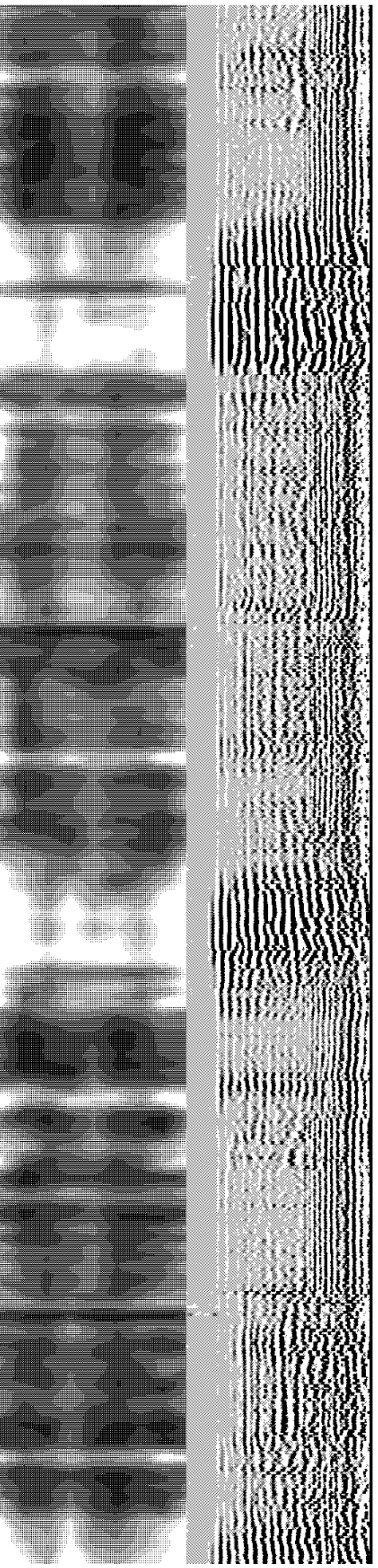
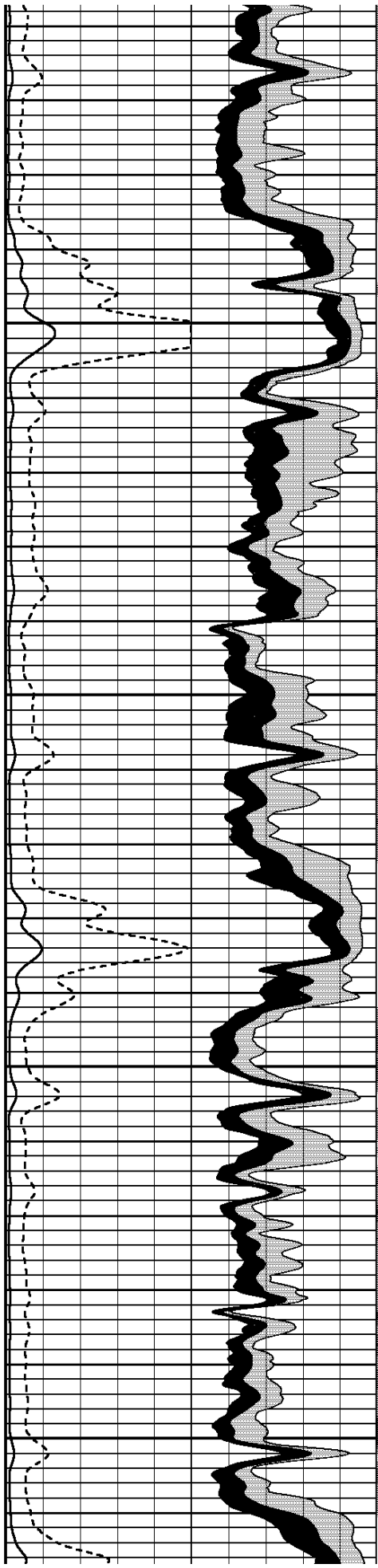
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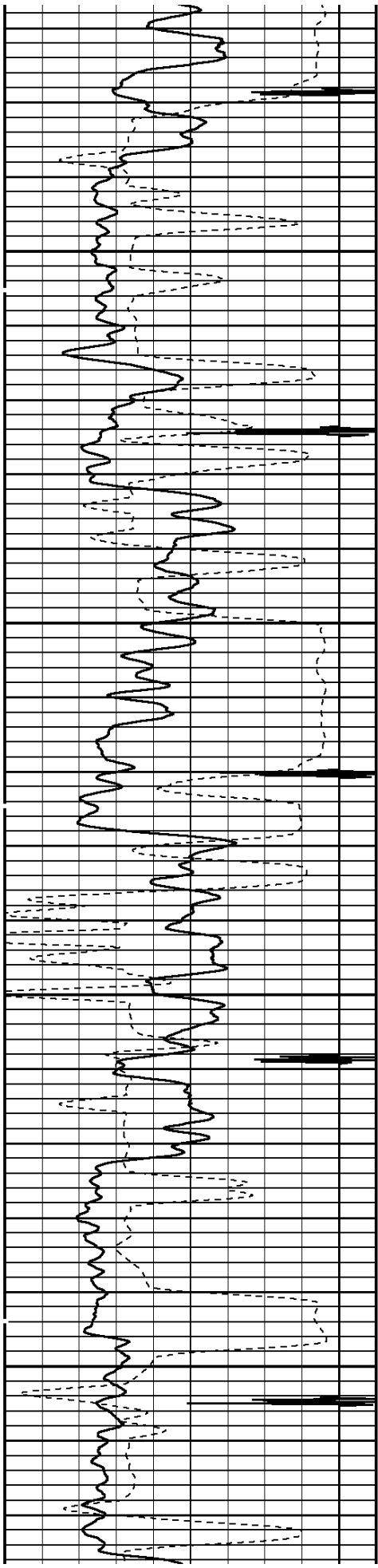




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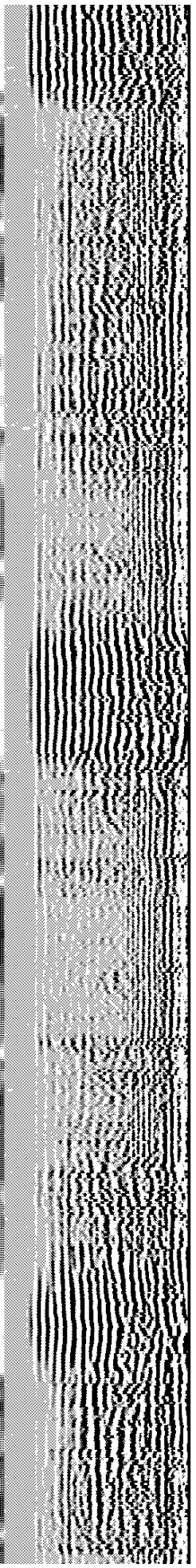
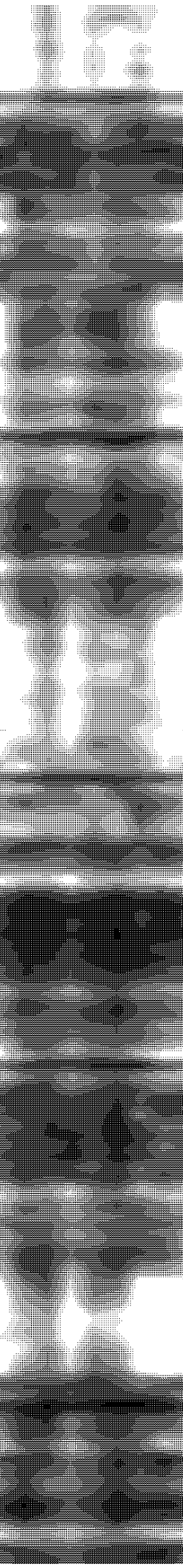
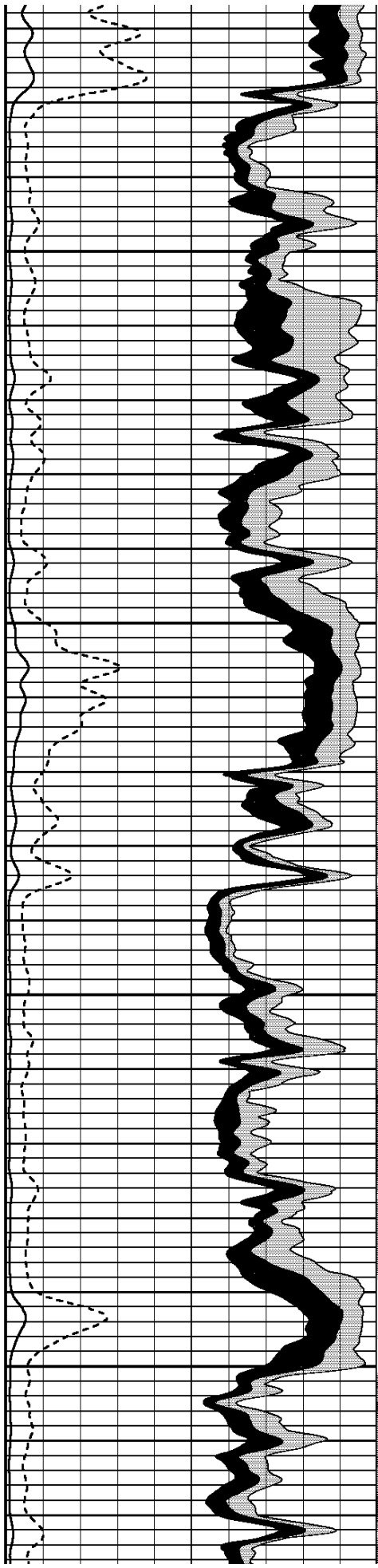
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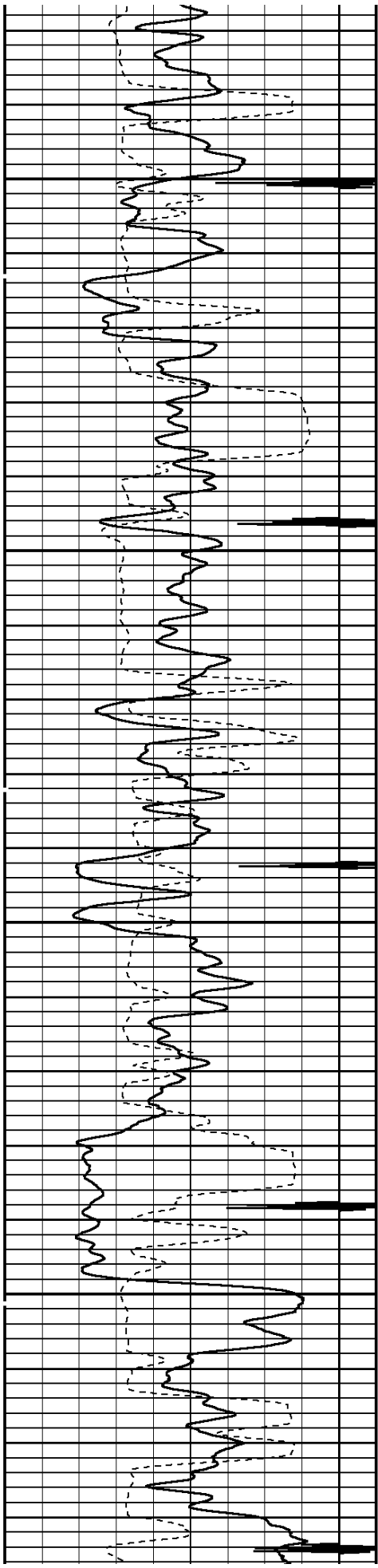




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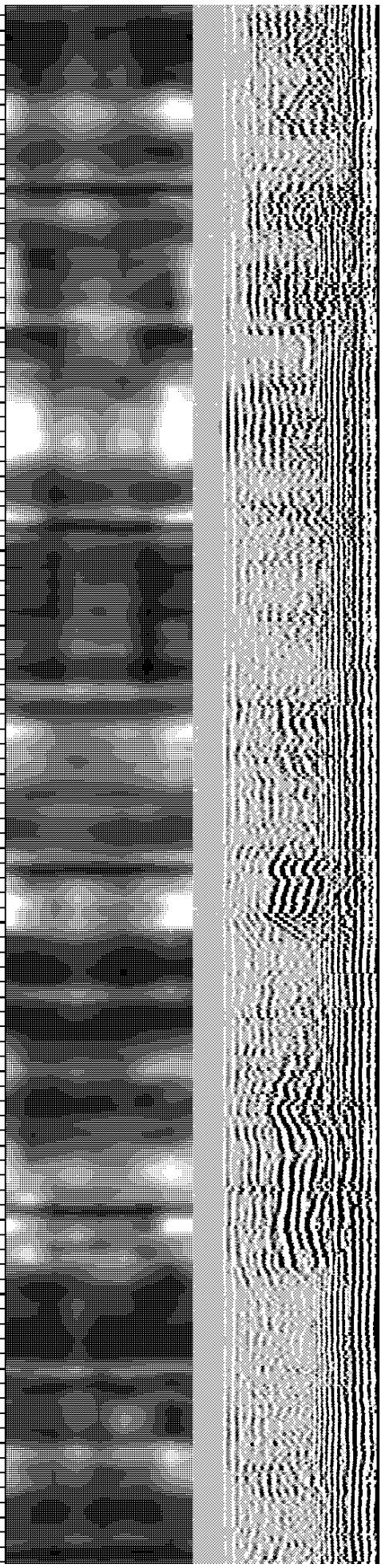
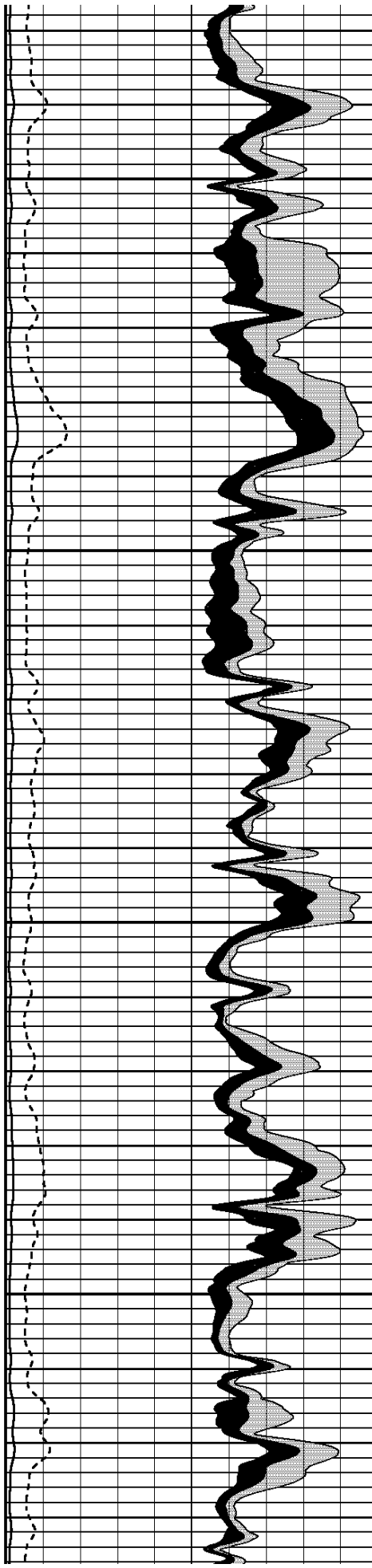
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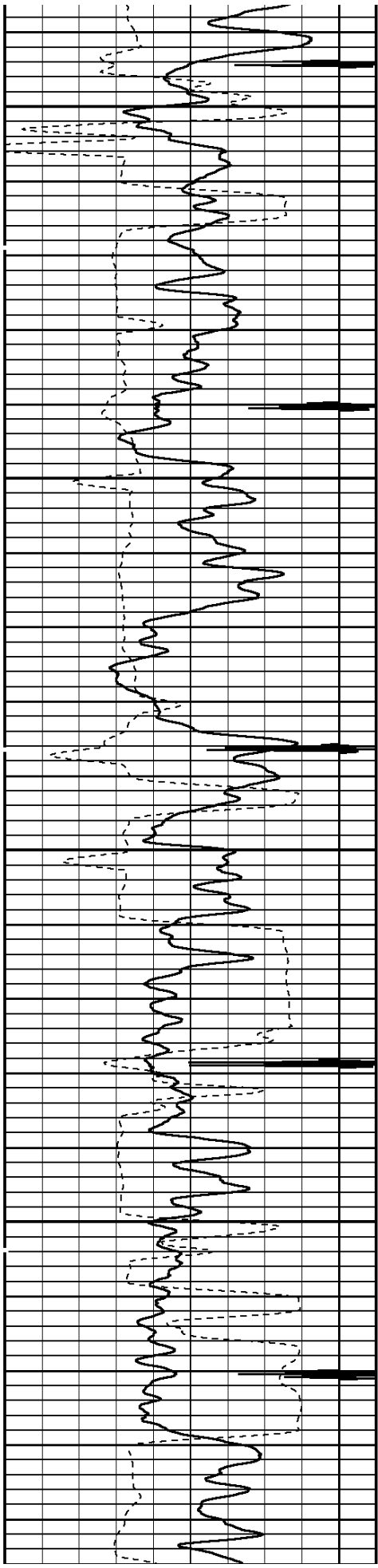




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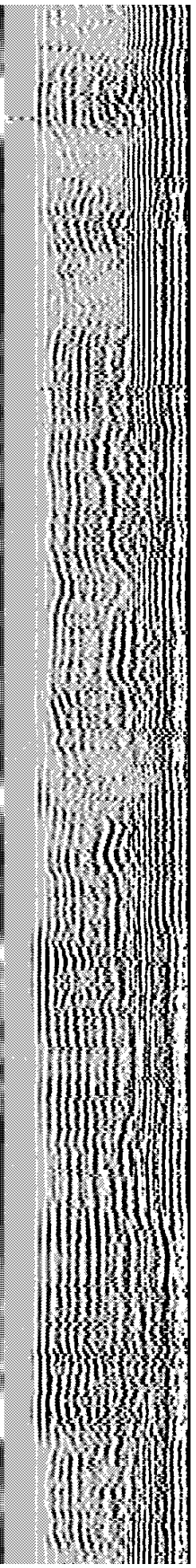
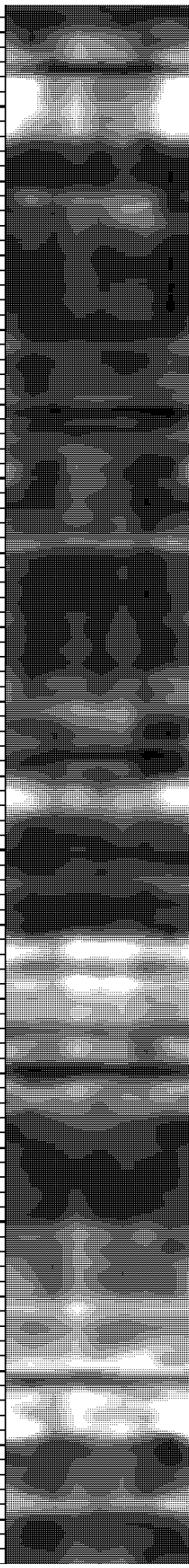
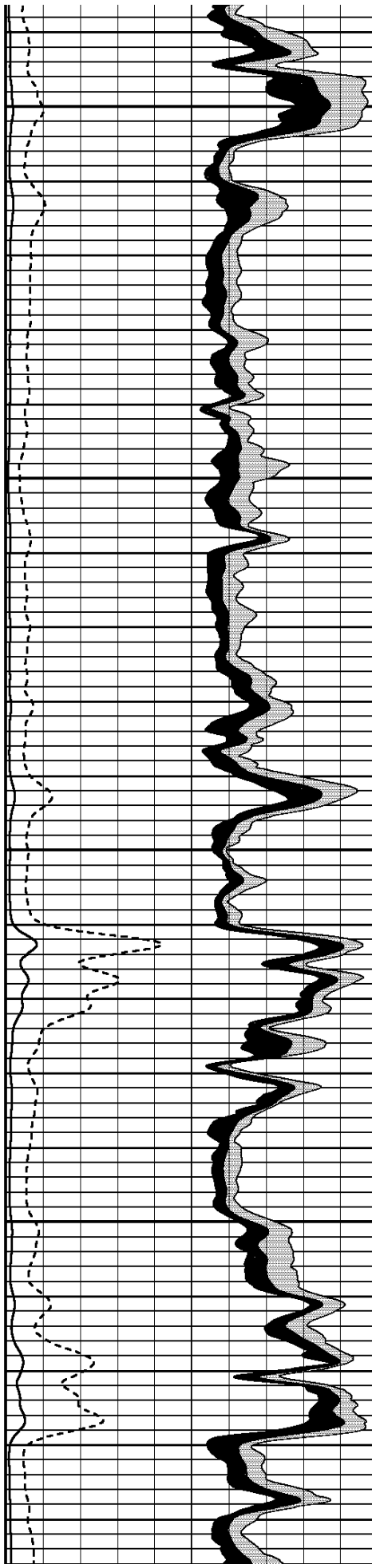
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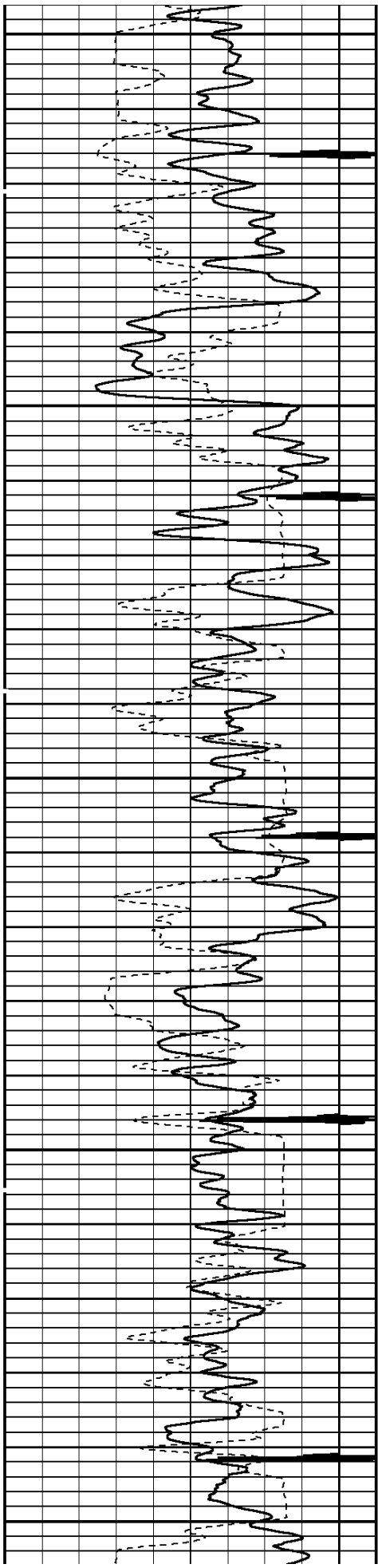




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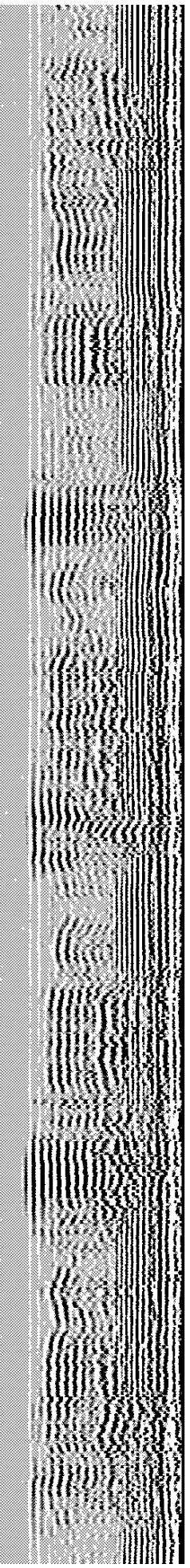
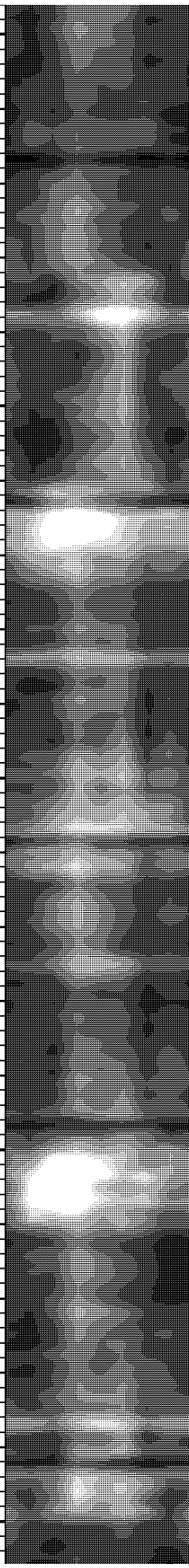
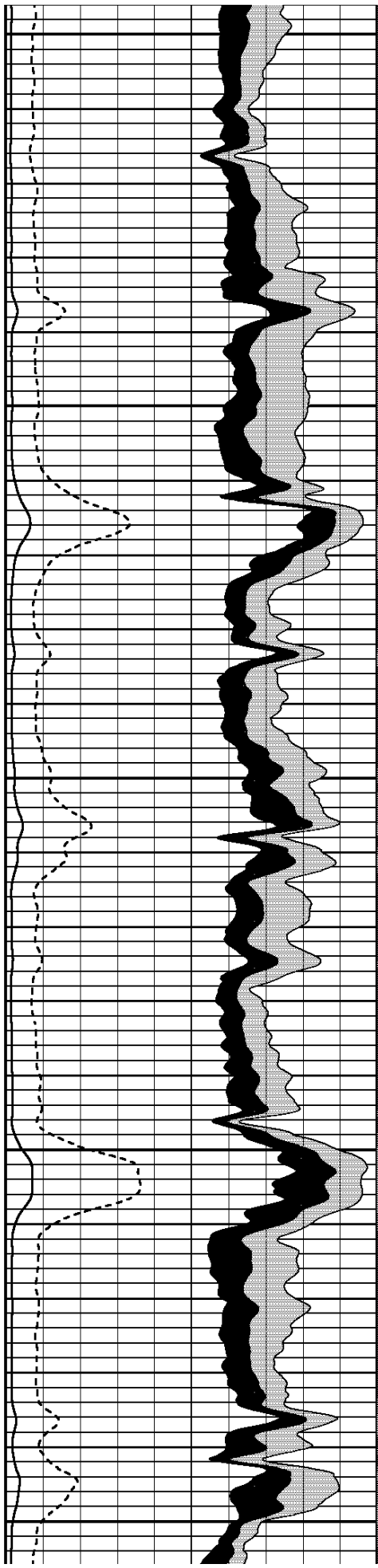


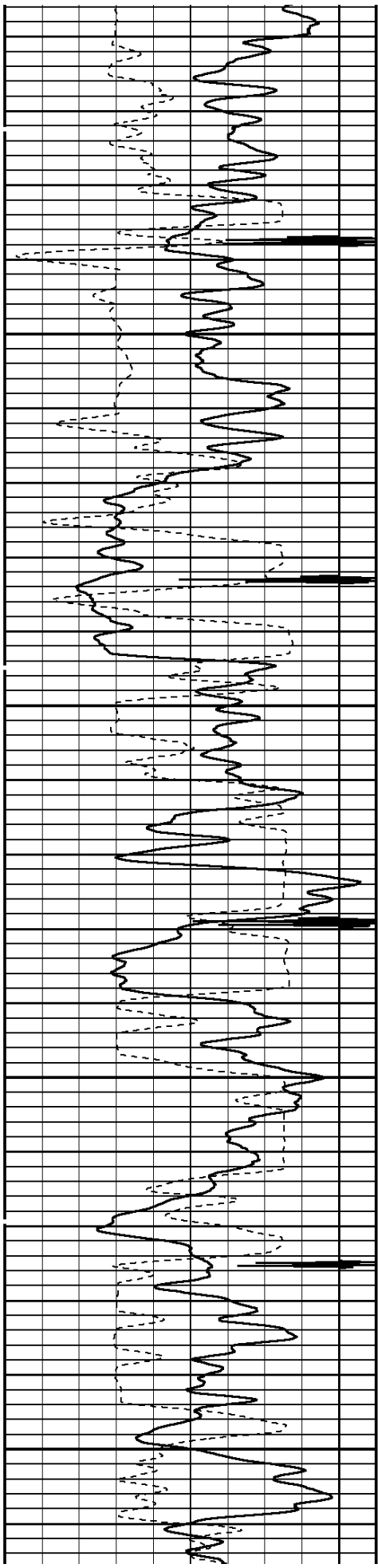


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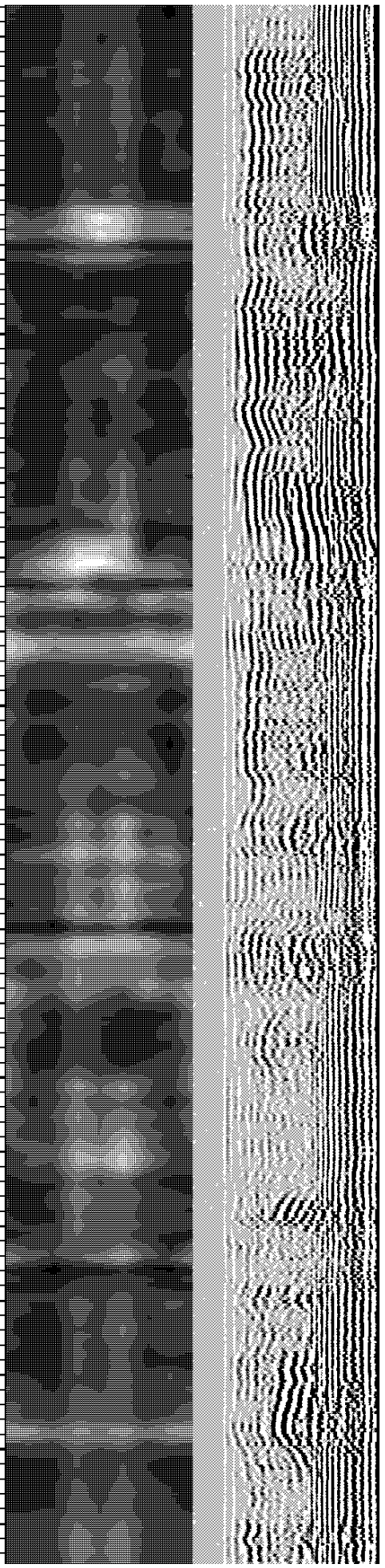
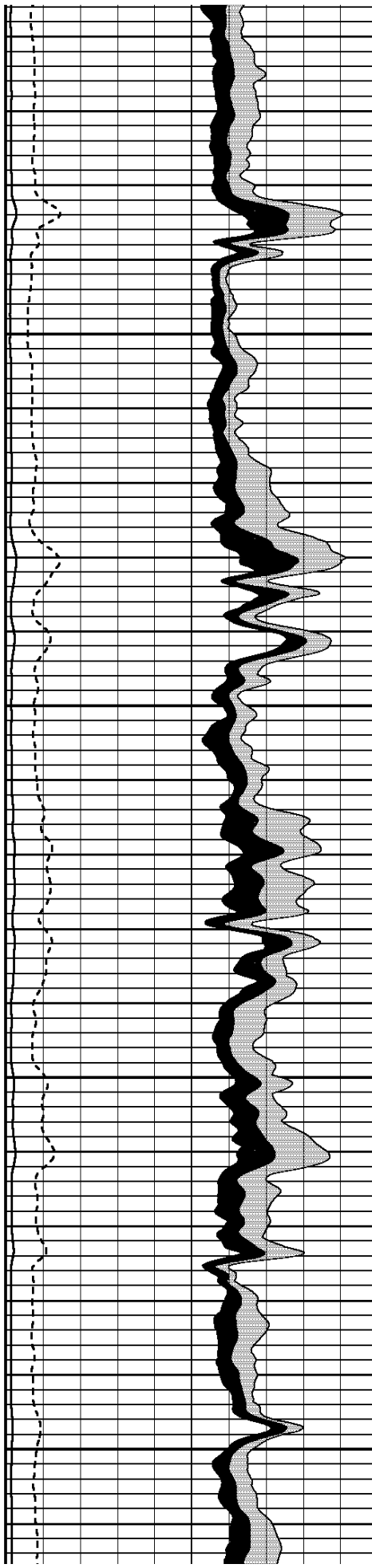
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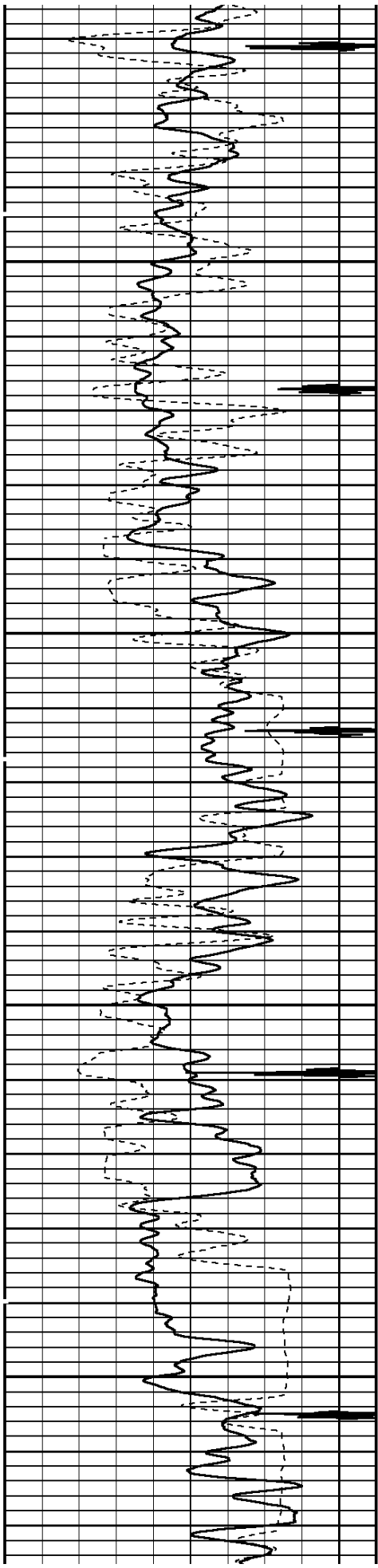




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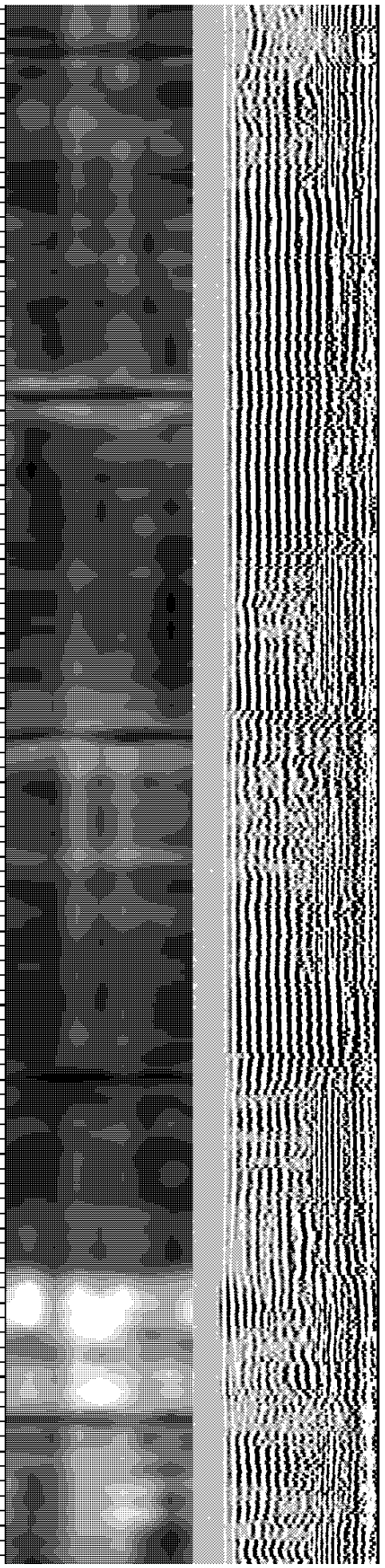
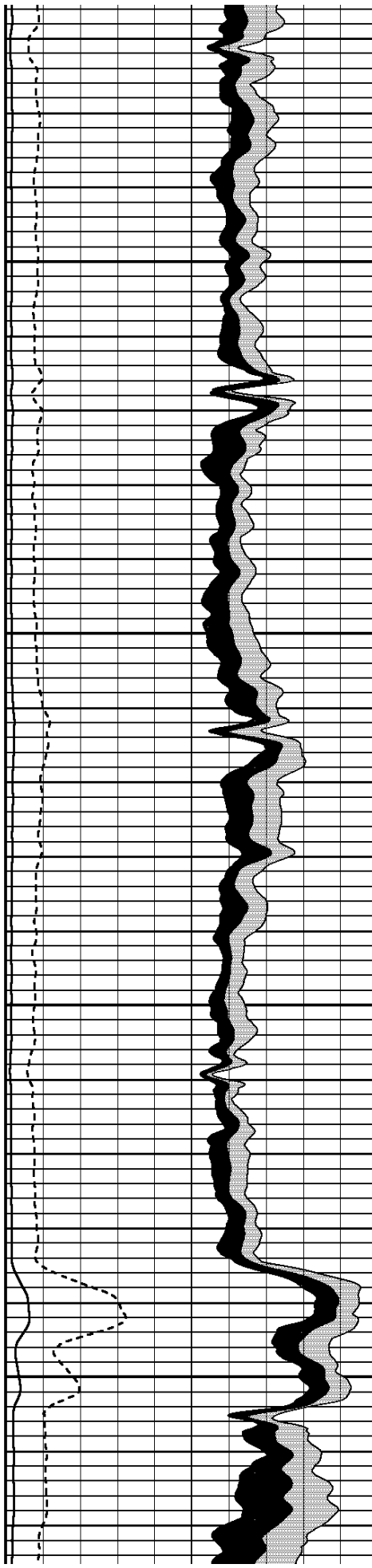
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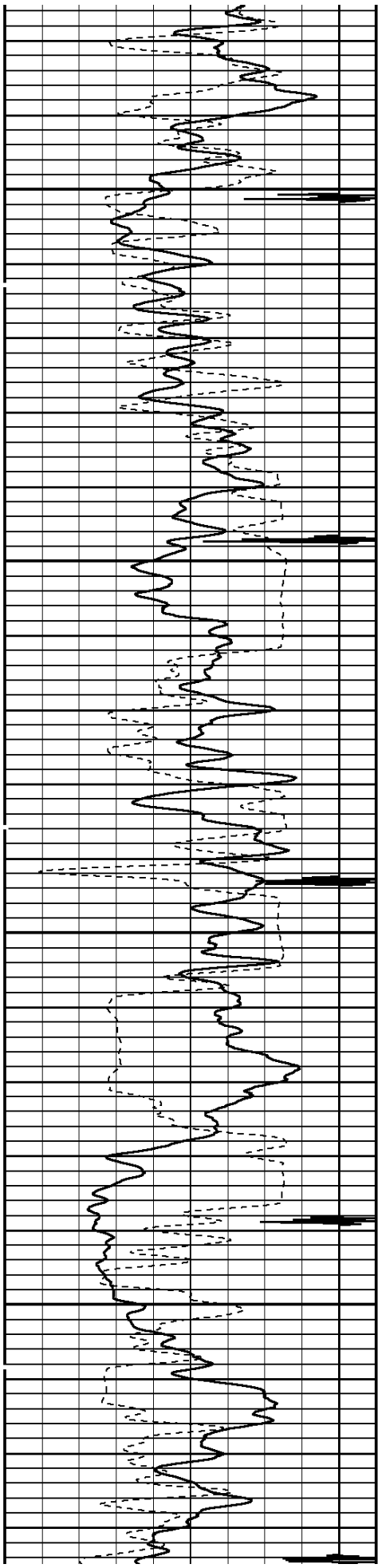




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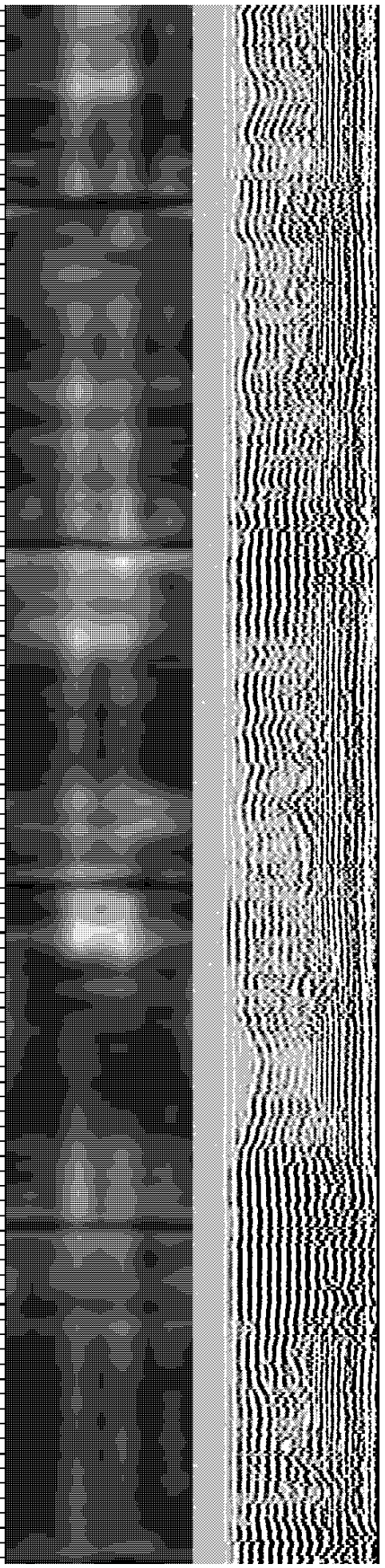
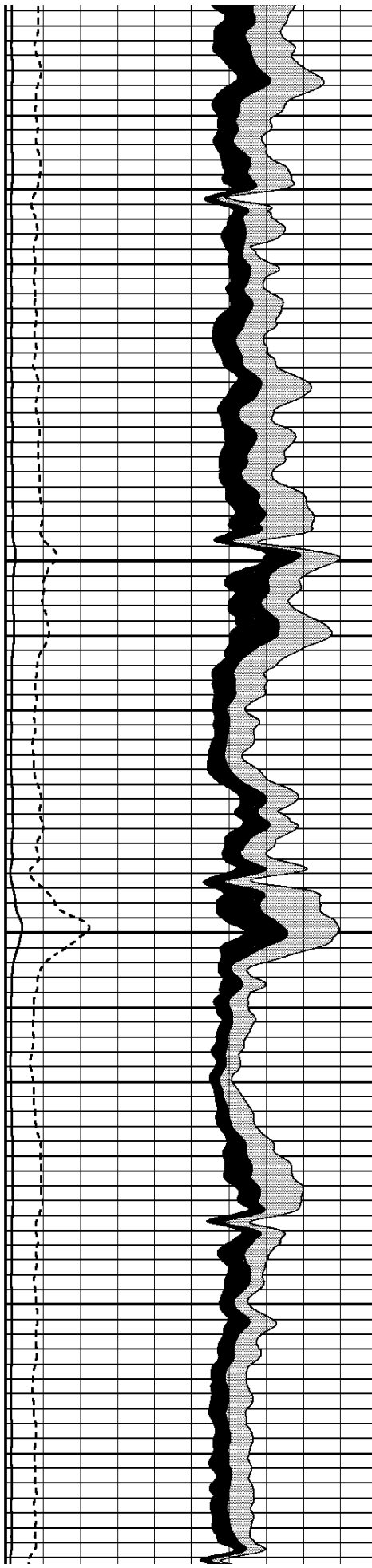
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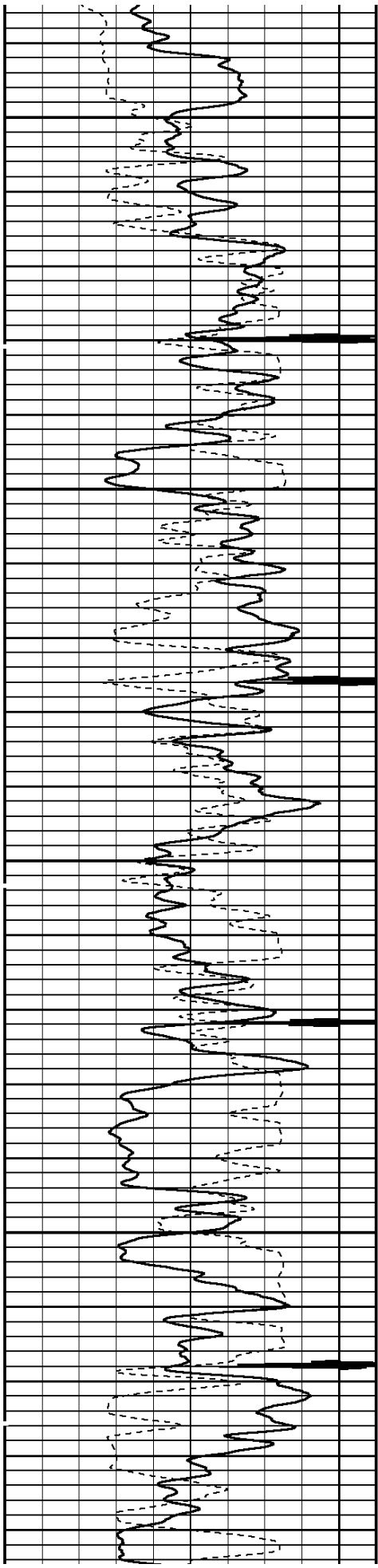




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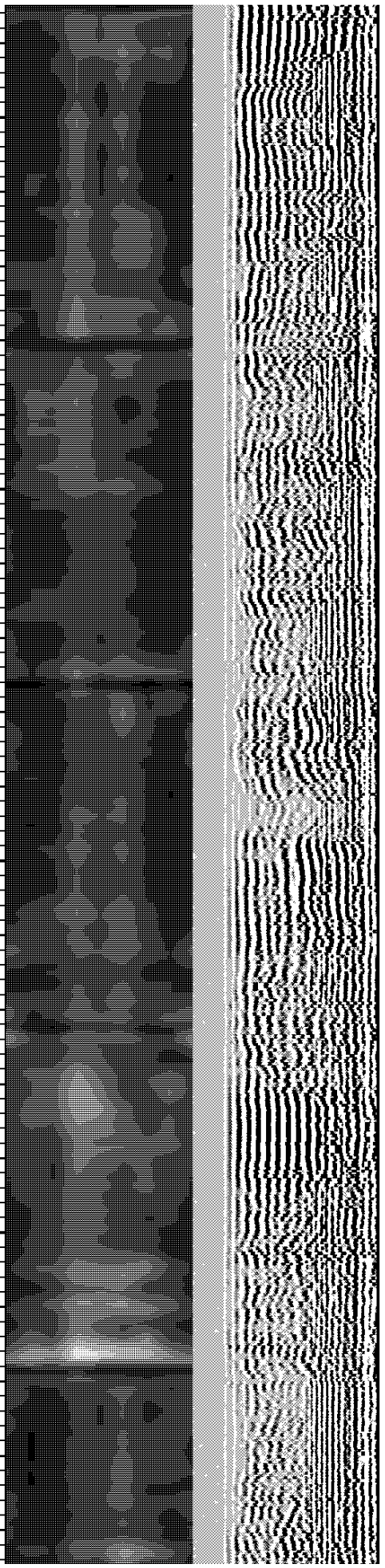
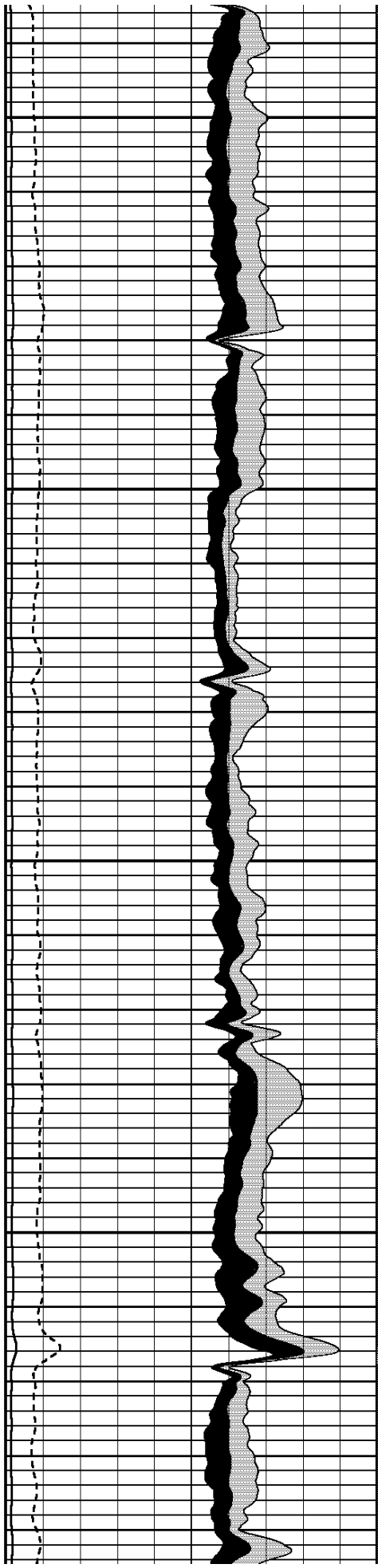
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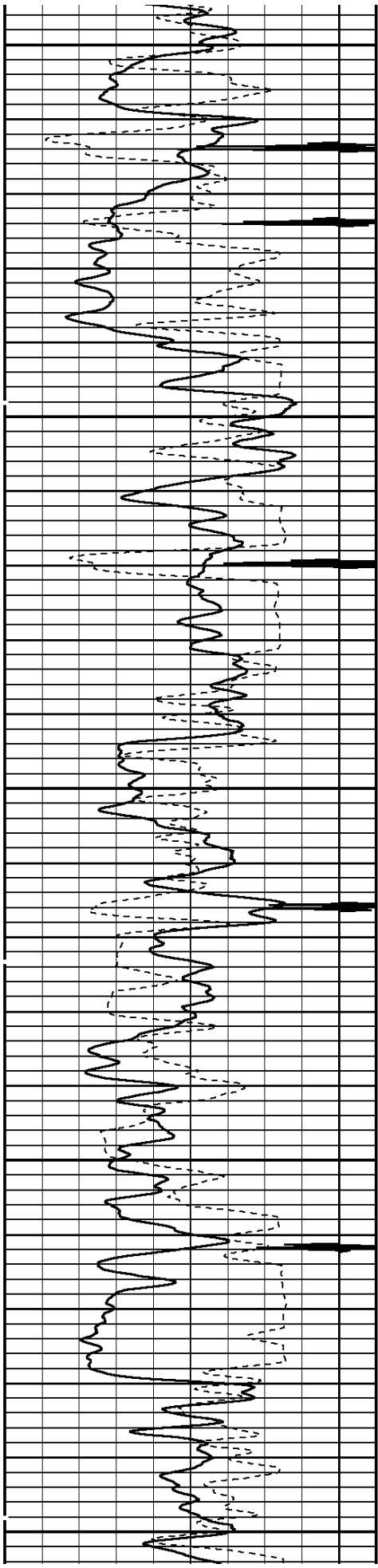




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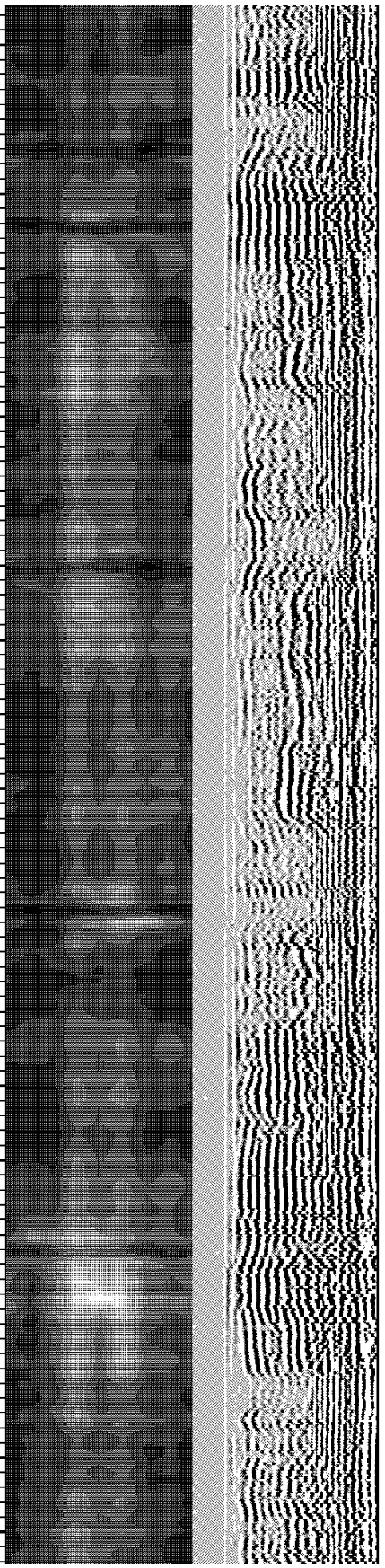
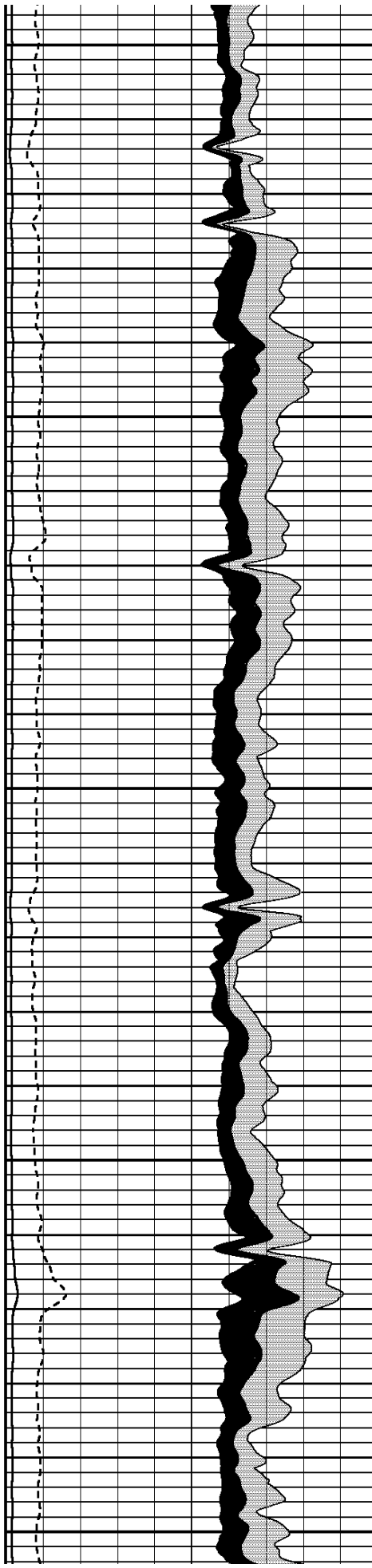
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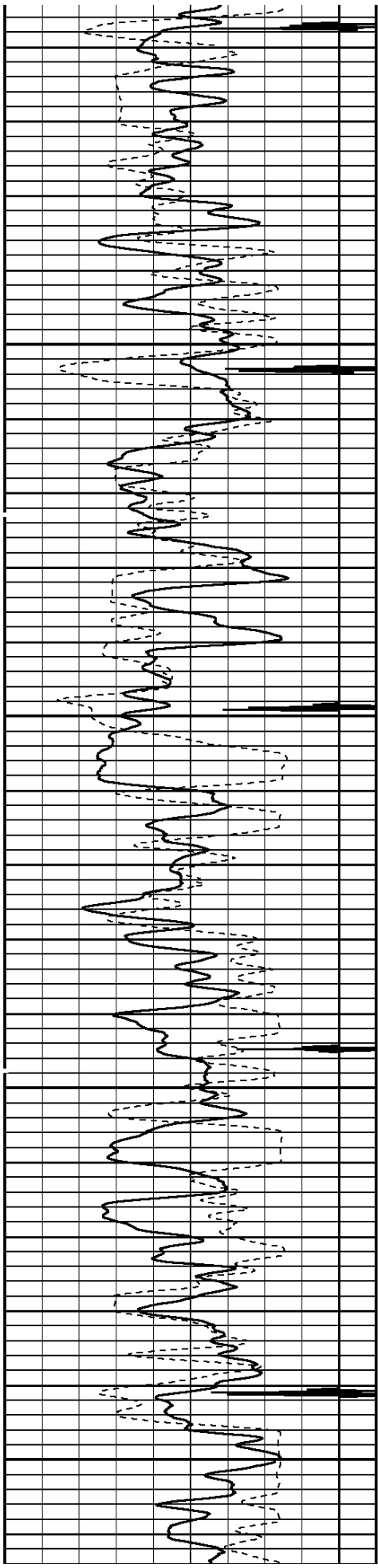




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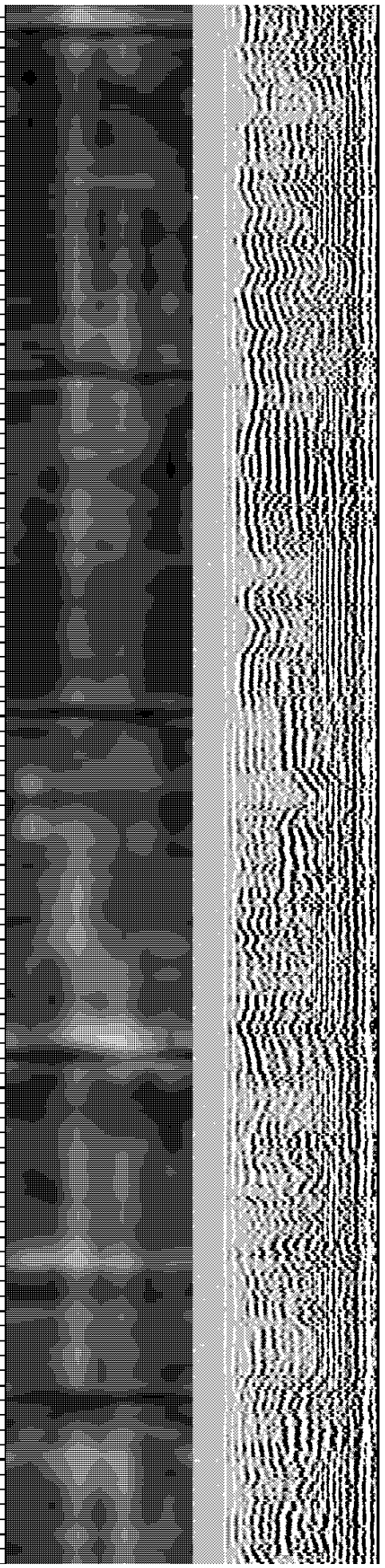
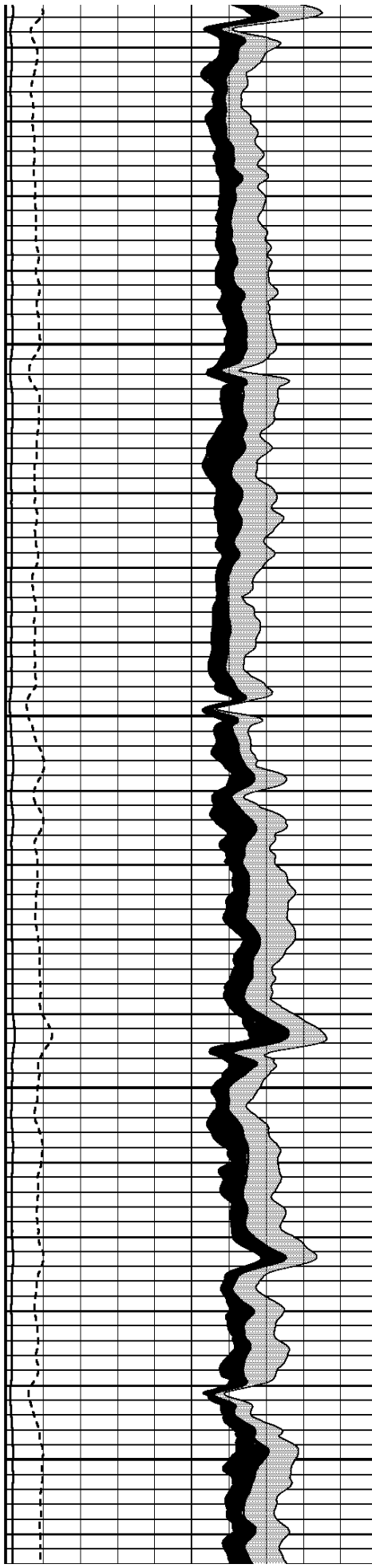
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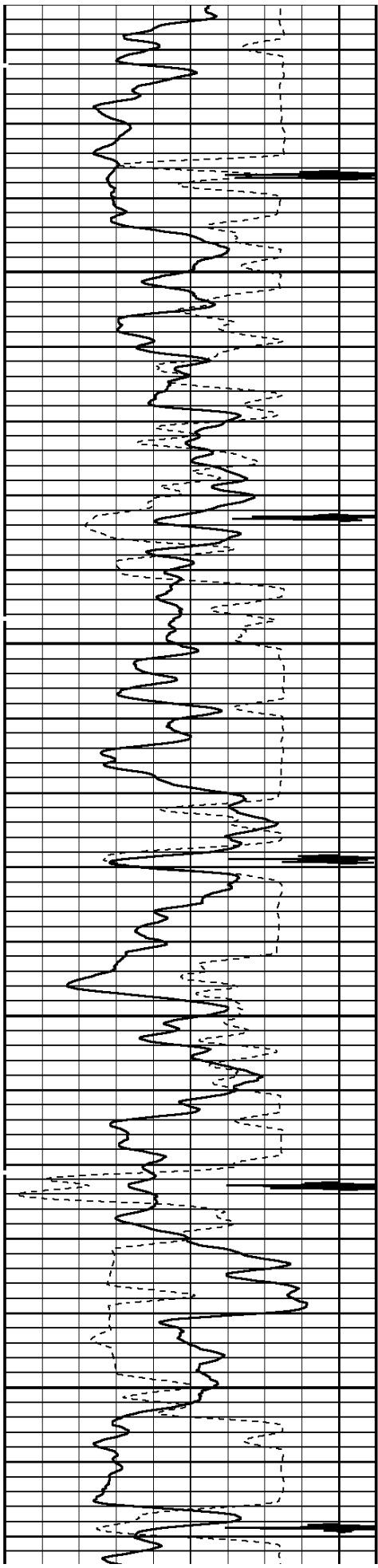




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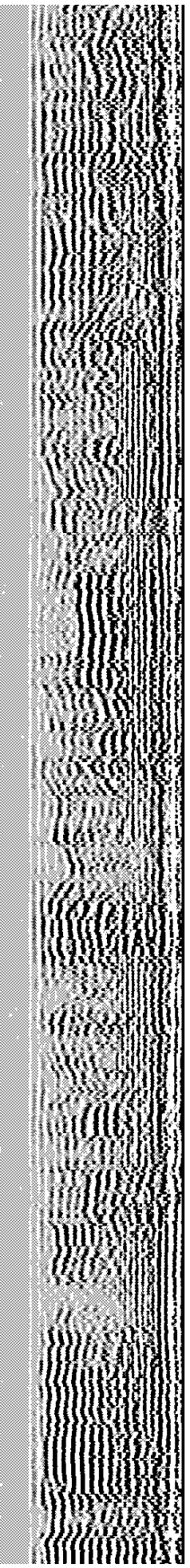
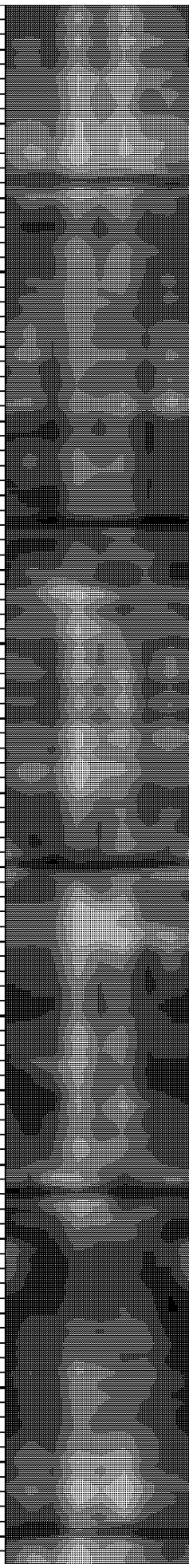
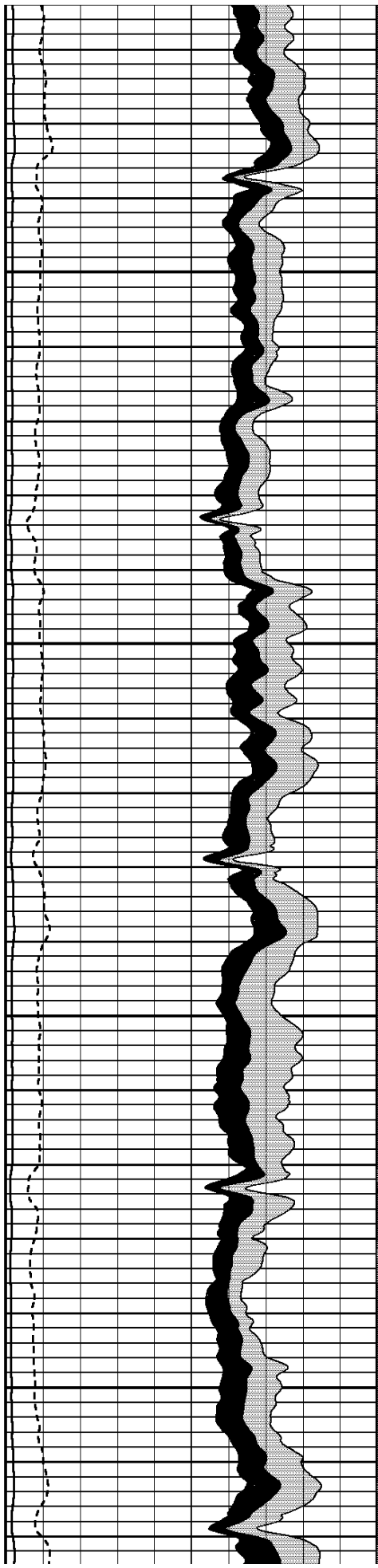
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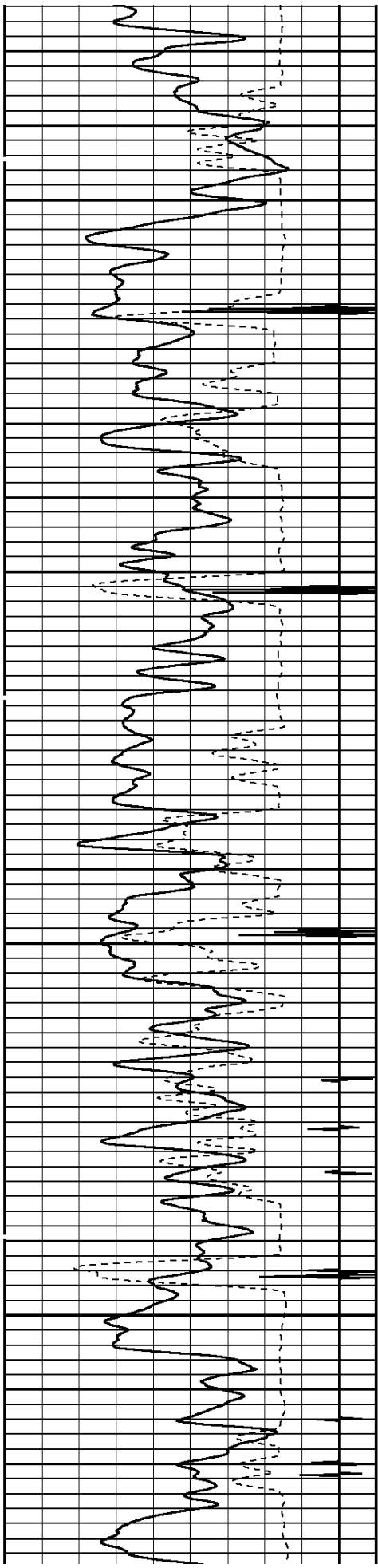




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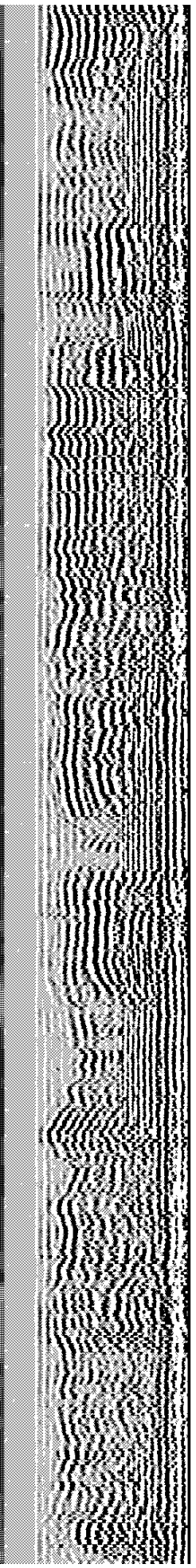
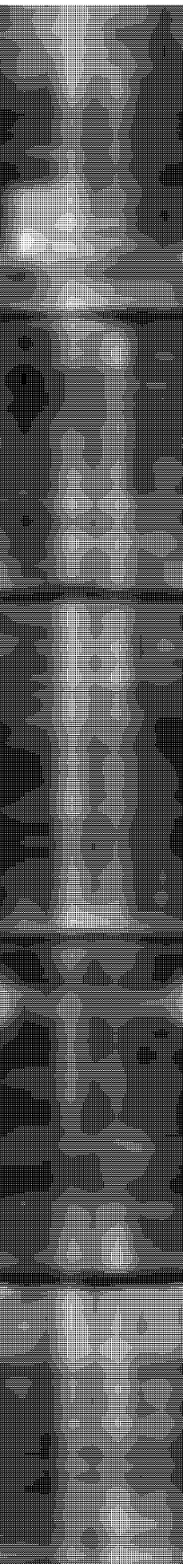
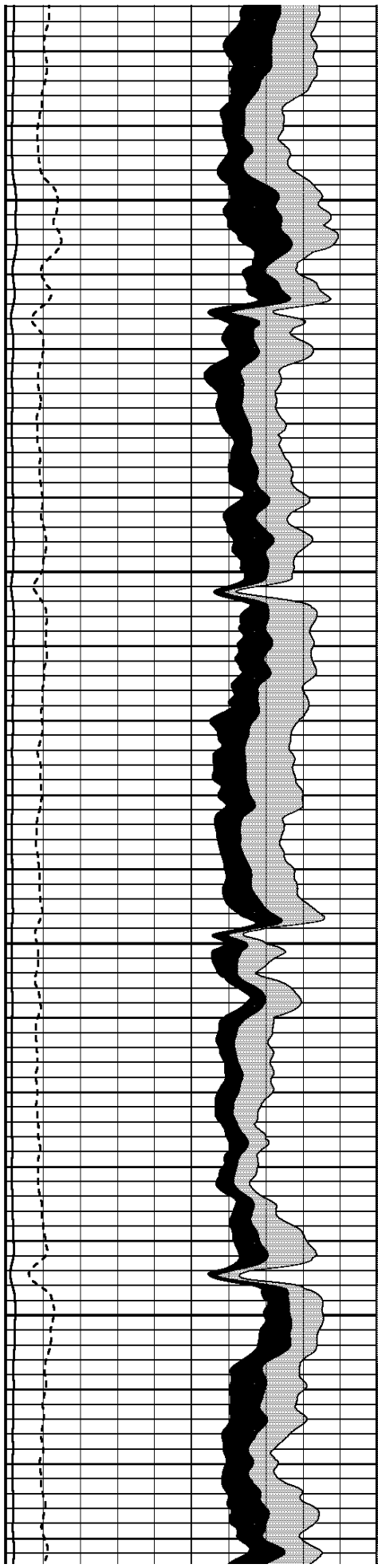
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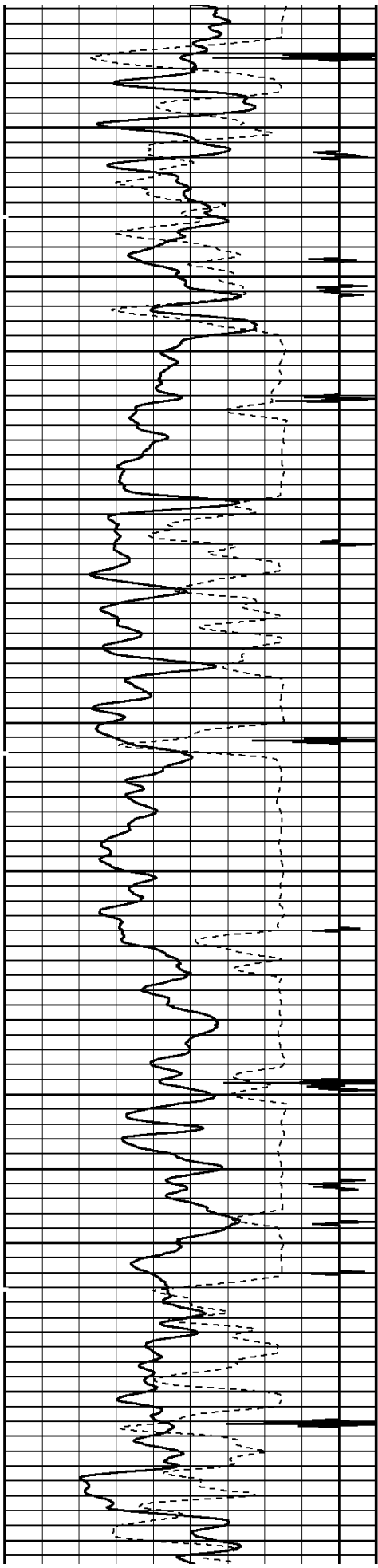




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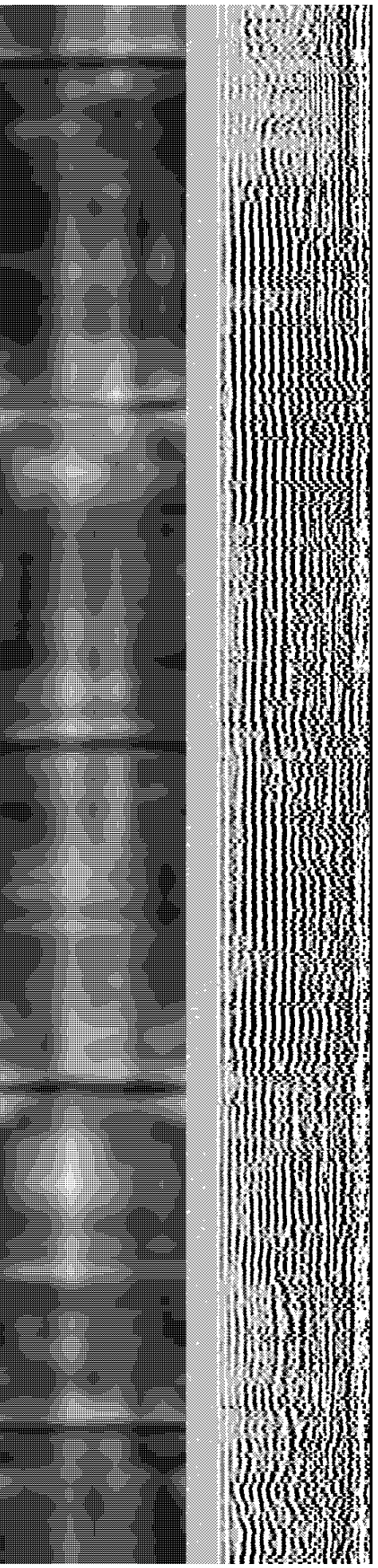
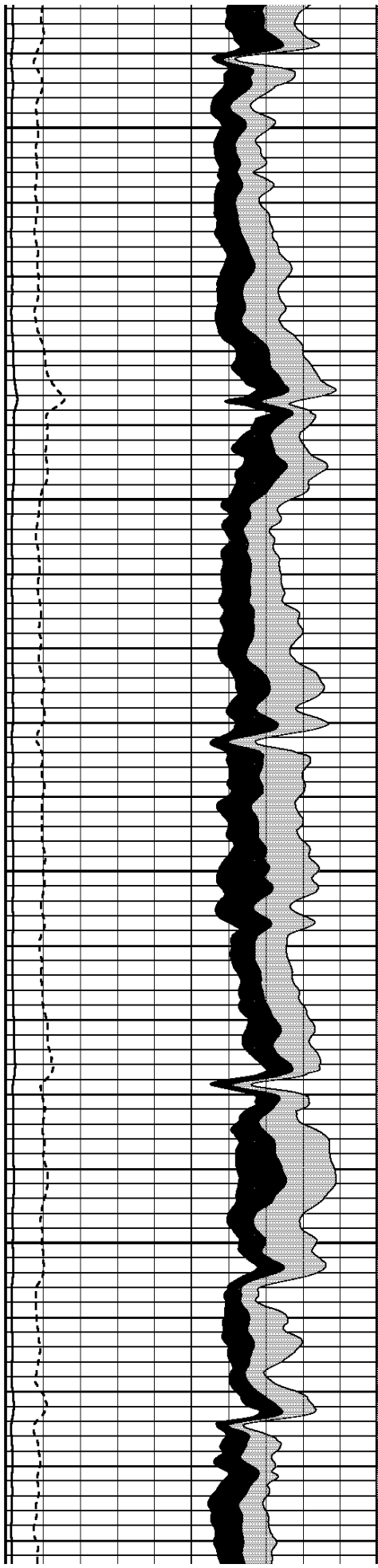
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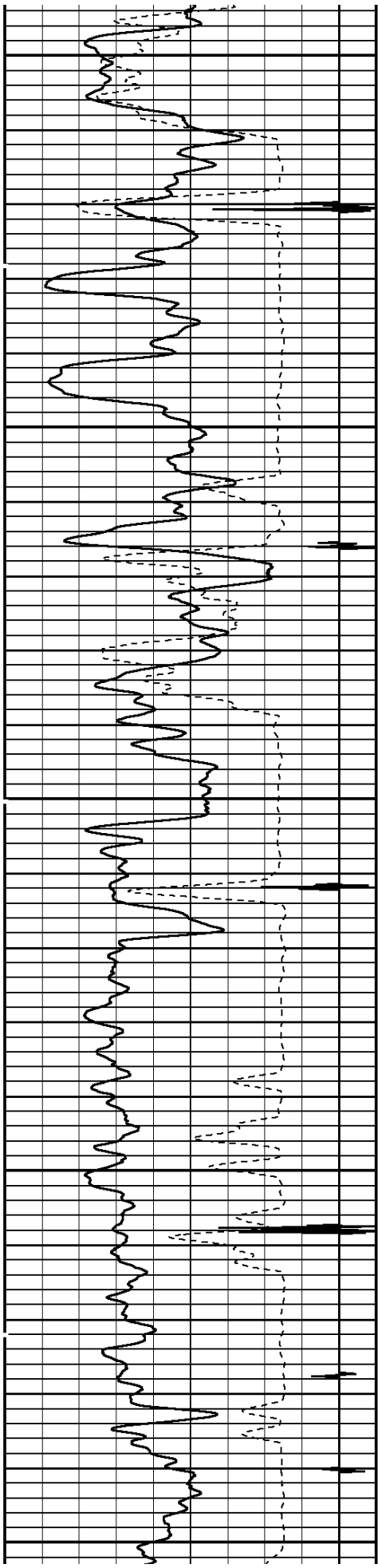




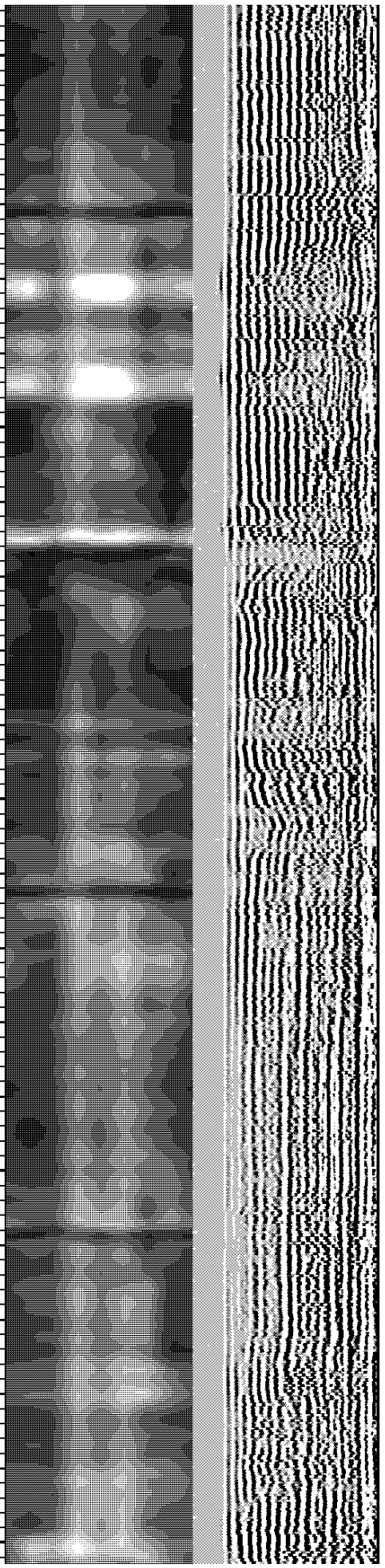
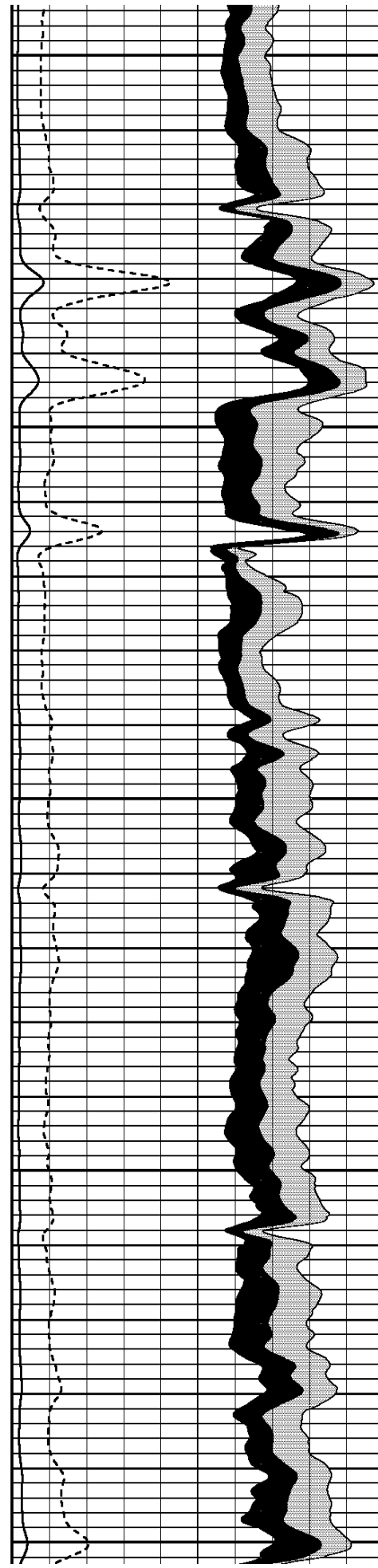
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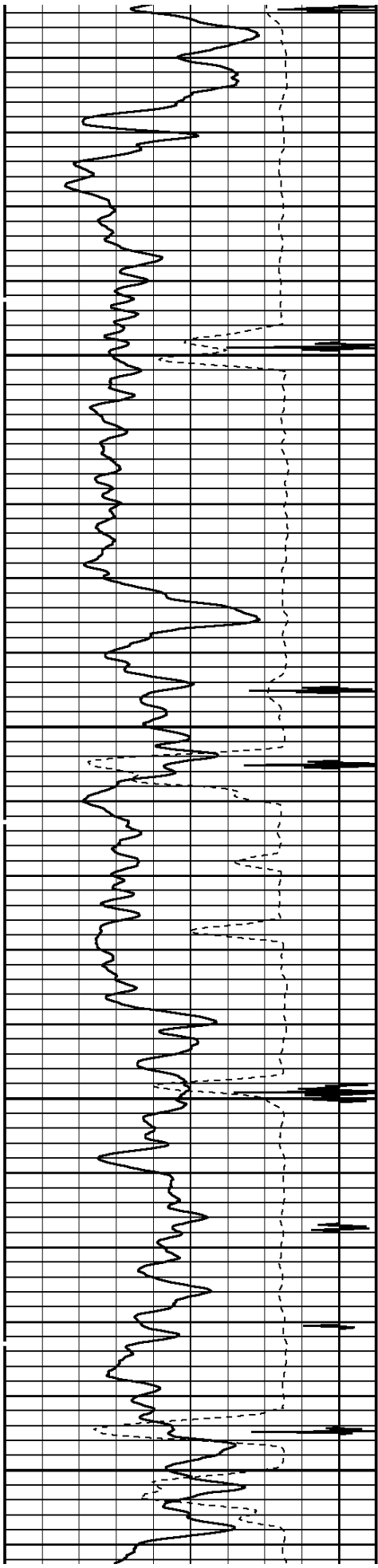
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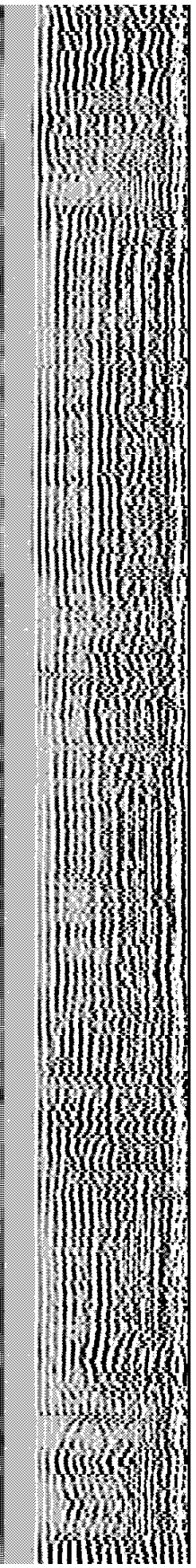
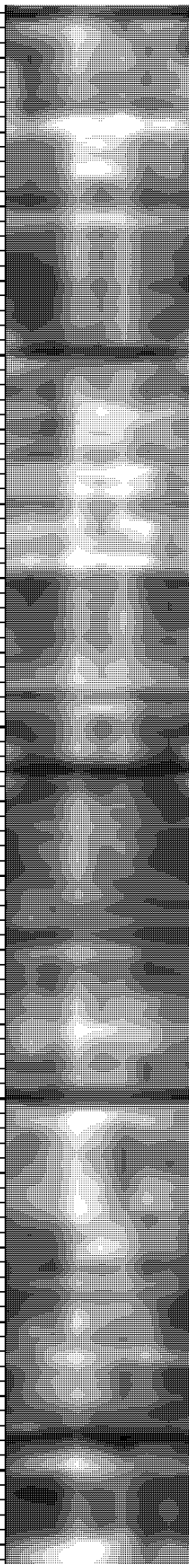
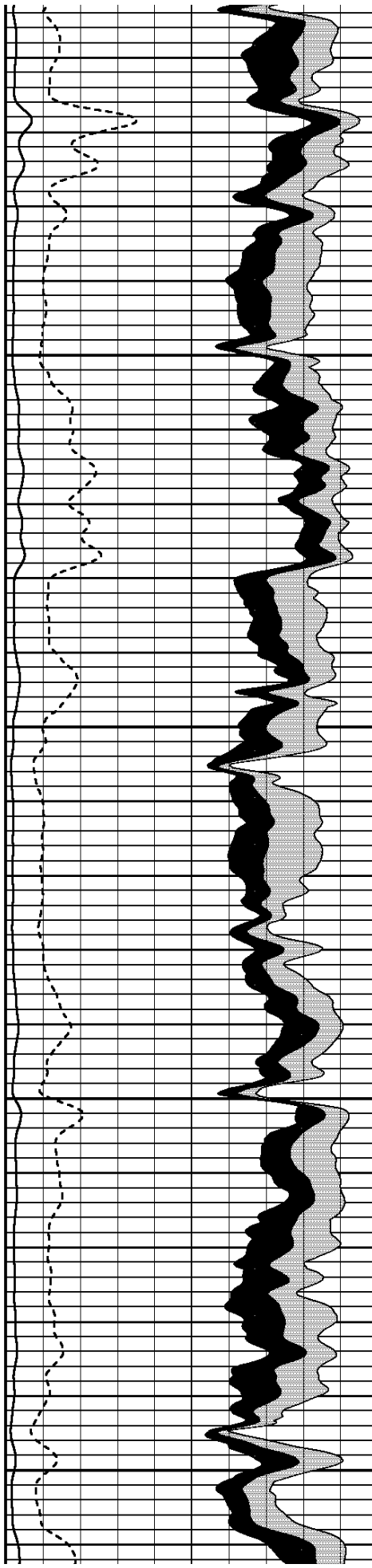
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6400
6500

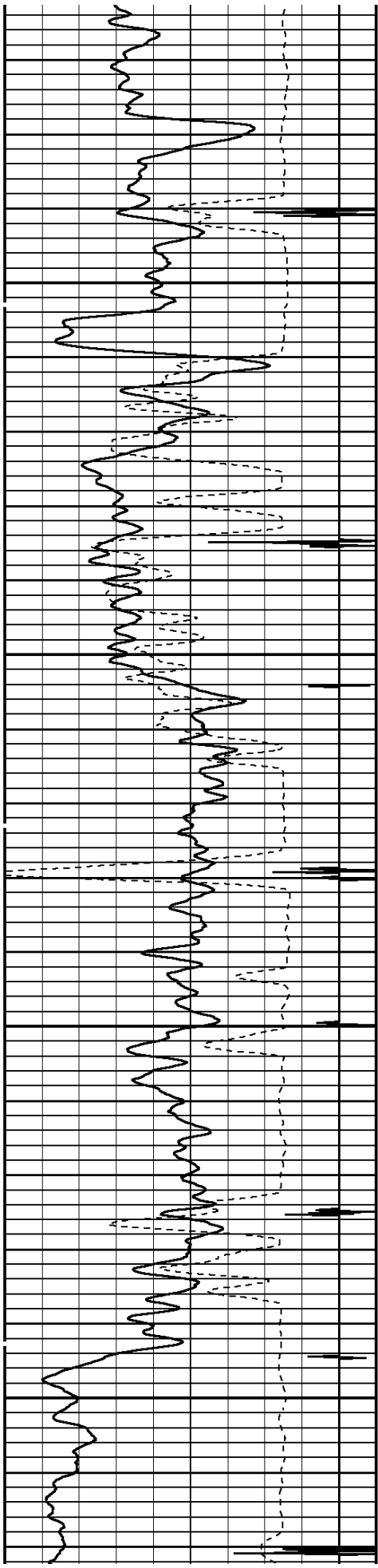




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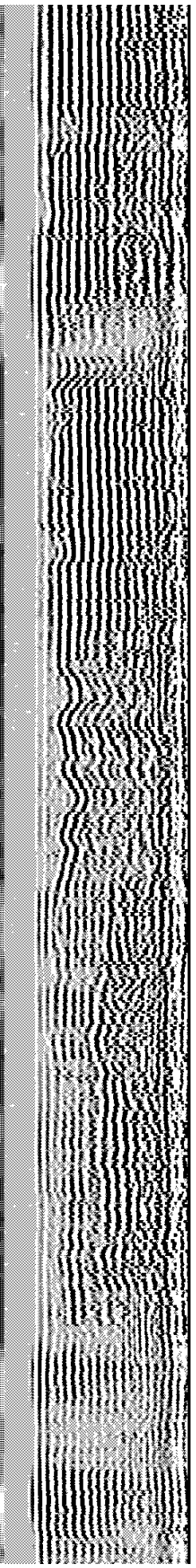
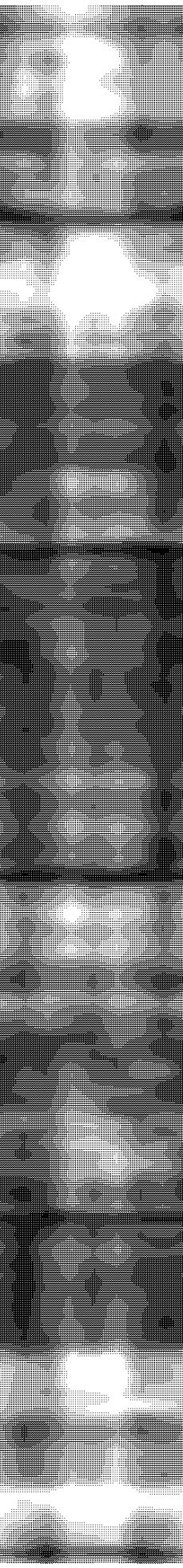
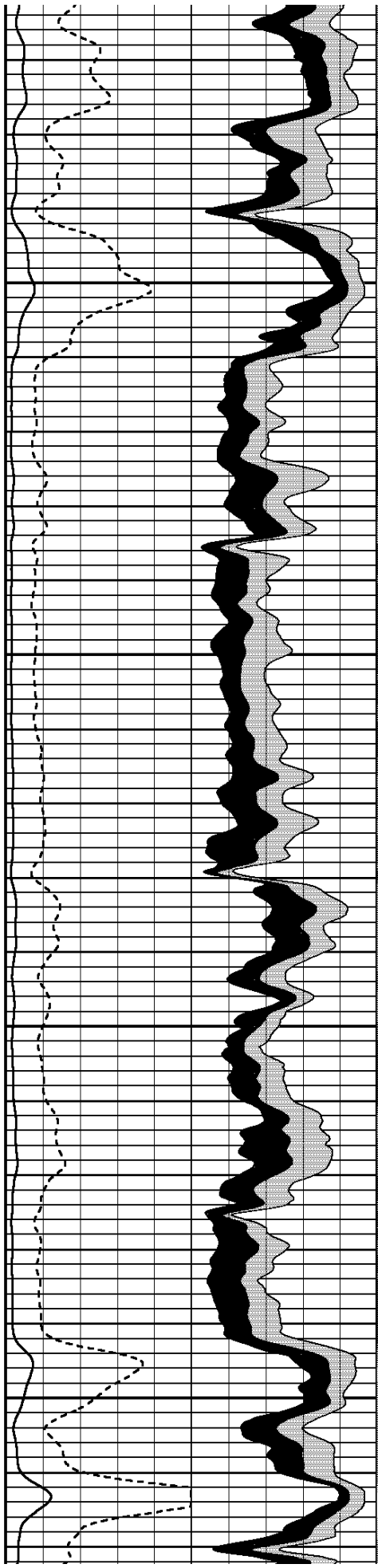
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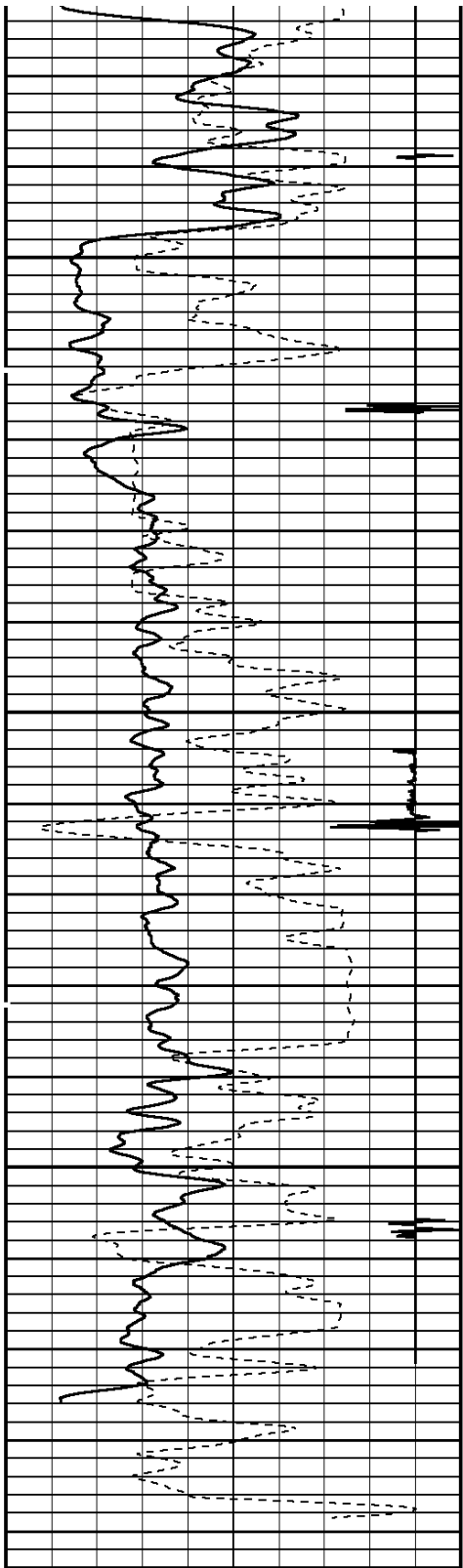




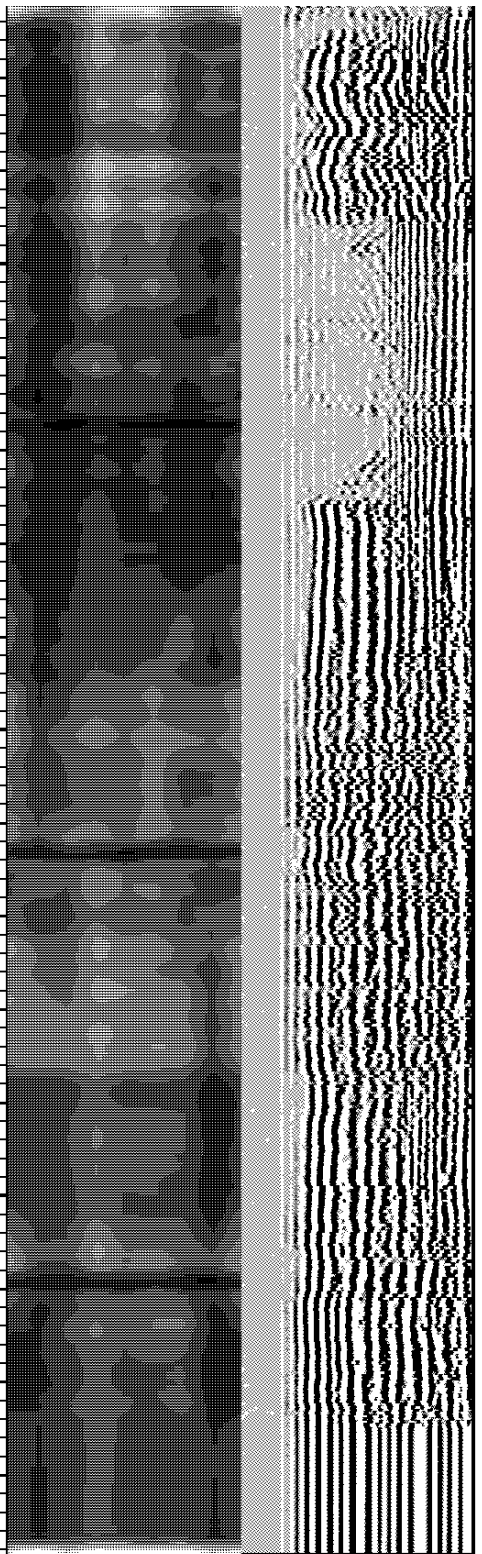
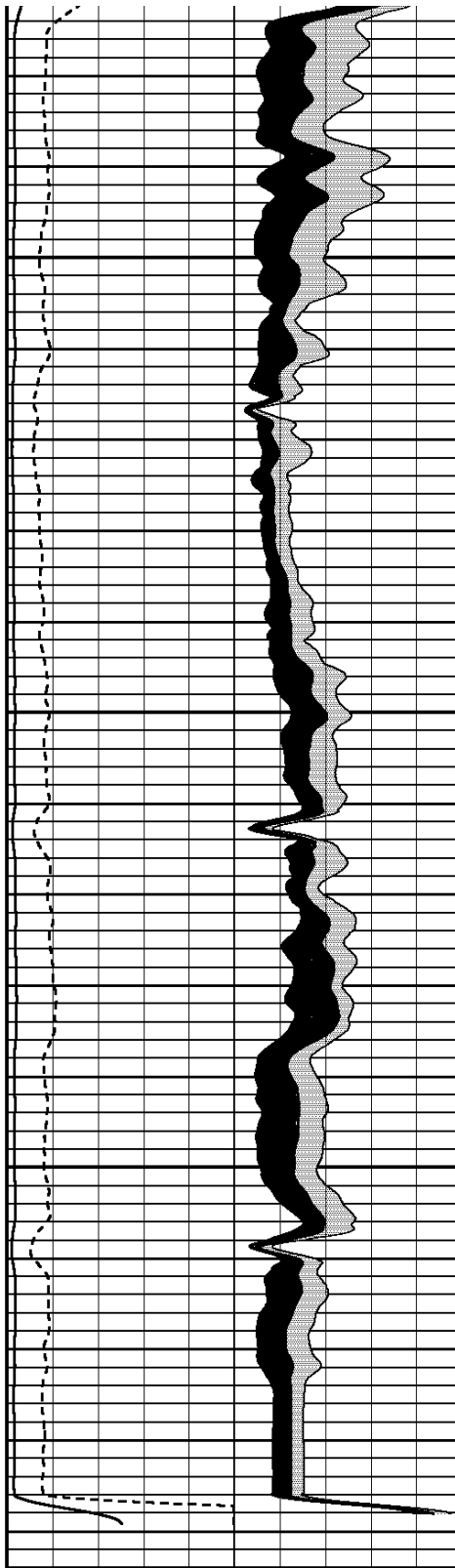
6800

6900





7000



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

START DEPTH: 7095.0 DIRECTION: UP DATE: 11/14/2014 TIME: 02:58 MODE: ORIGINAL

103088681 CBLMAIN

MAIN PASS

DEPTH SCALE: 5":100'

LOGGED VERSION: 2012.07.18.162"

DEPTH SCALE: 5":100'

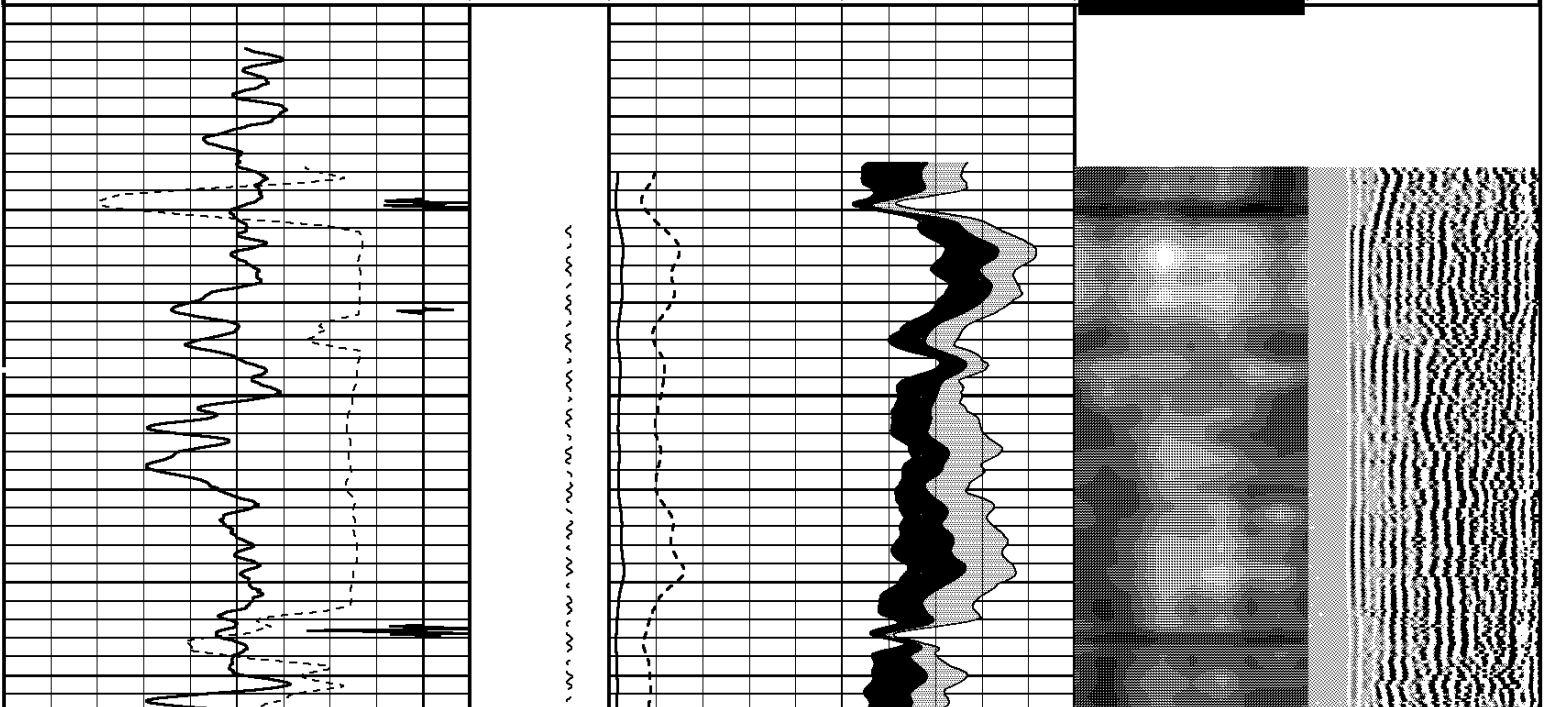
PROCESSED VERSION: 2012.07.18.162"

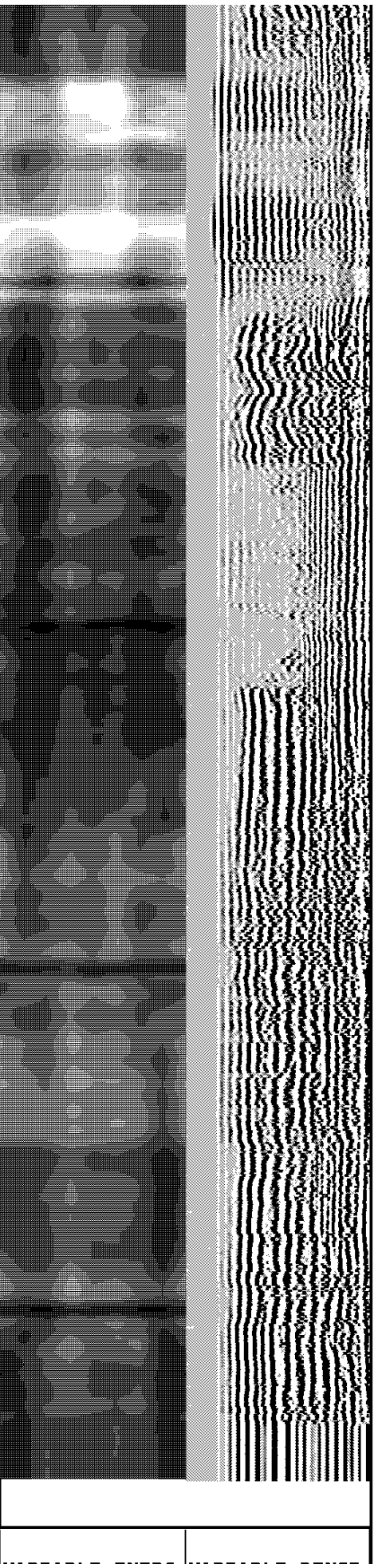
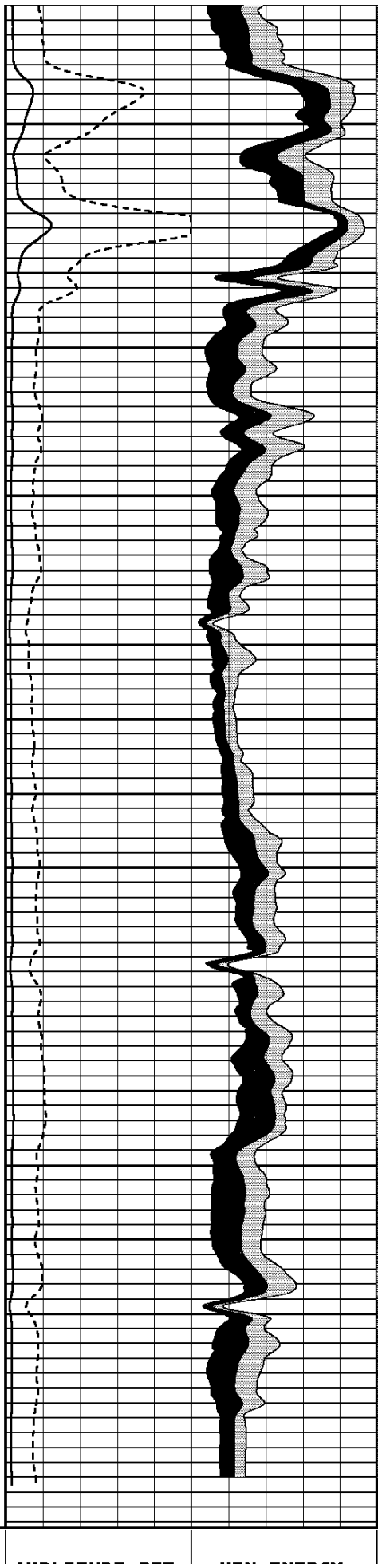
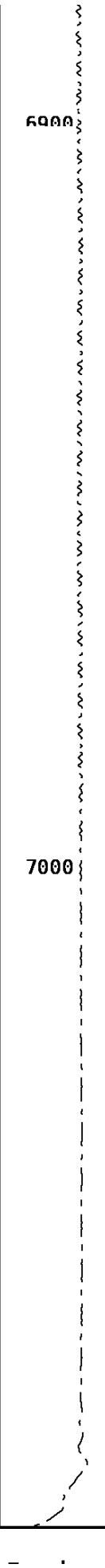
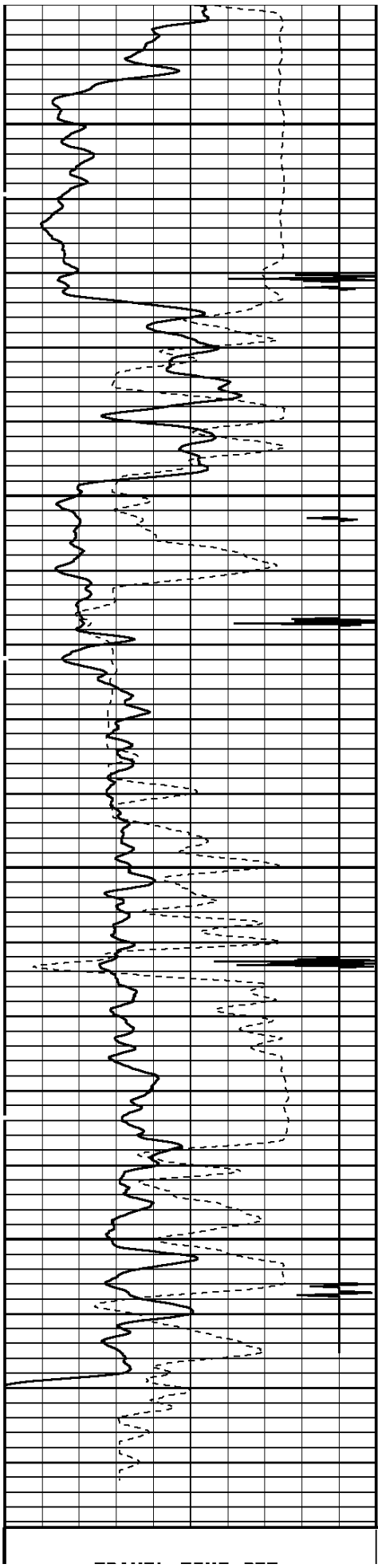
REPEAT PASS

103088681 CBLREPEAT

FINISH DEPTH: 6831.8 Feet DIRECTION: UP DATE: 11/14/2014 TIME: 03:15 MODE: ORIGINAL

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





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	
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: **7088.8** DIRECTION: **UP** DATE: **11/14/2014** TIME: **03:15** MODE: **ORIGINAL**

103088681 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	42.10
	PLUS	81.00	2389.20
AMP 5FT	ZERO	0.00	8.50
	PLUS	100.00	3161.00
1 SECTOR AMP	ZERO	5.00	193.90
	PLUS	95.00	1925.40
2 SECTOR AMP	ZERO	5.00	190.60
	PLUS	95.00	1928.10
3 SECTOR AMP	ZERO	5.00	152.40
	PLUS	95.00	1959.30
4 SECTOR AMP	ZERO	5.00	186.60
	PLUS	95.00	2050.30
5 SECTOR AMP	ZERO	5.00	184.60
	PLUS	95.00	1872.90

6 SECTOR AMP	ZERO	5.00	239.20
	PLUS	95.00	2059.80
7 SECTOR AMP	ZERO	5.00	172.40
	PLUS	95.00	1833.00
8 SECTOR AMP	ZERO	5.00	279.00
	PLUS	95.00	1899.20

1 7/16 Adapter Head

Weight 2.2 LB.
 Length 2.54
 Max. Diameter

Total Stack Weight 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

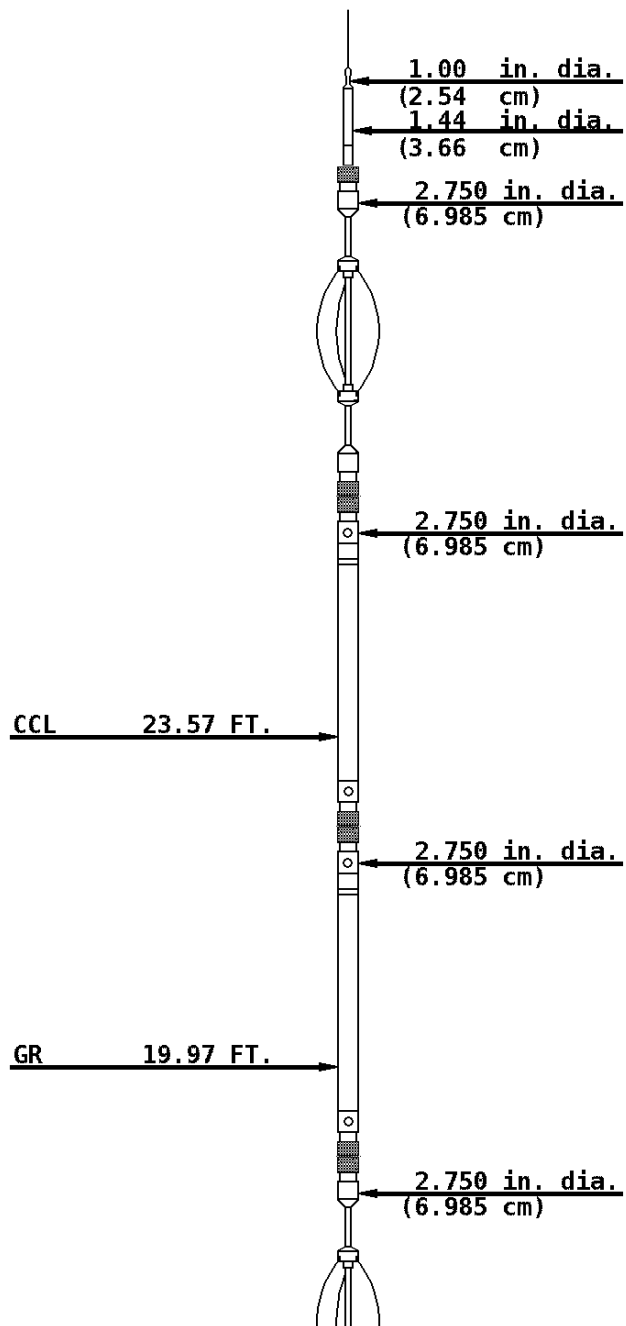
Weight 39.8 LBS.
 Length 3.40 FT.
 Max. Diameter 2.75 IN.

Slim Hole Gamma Ray

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

Slim Hole Centralizer

Weight 22 LBS.



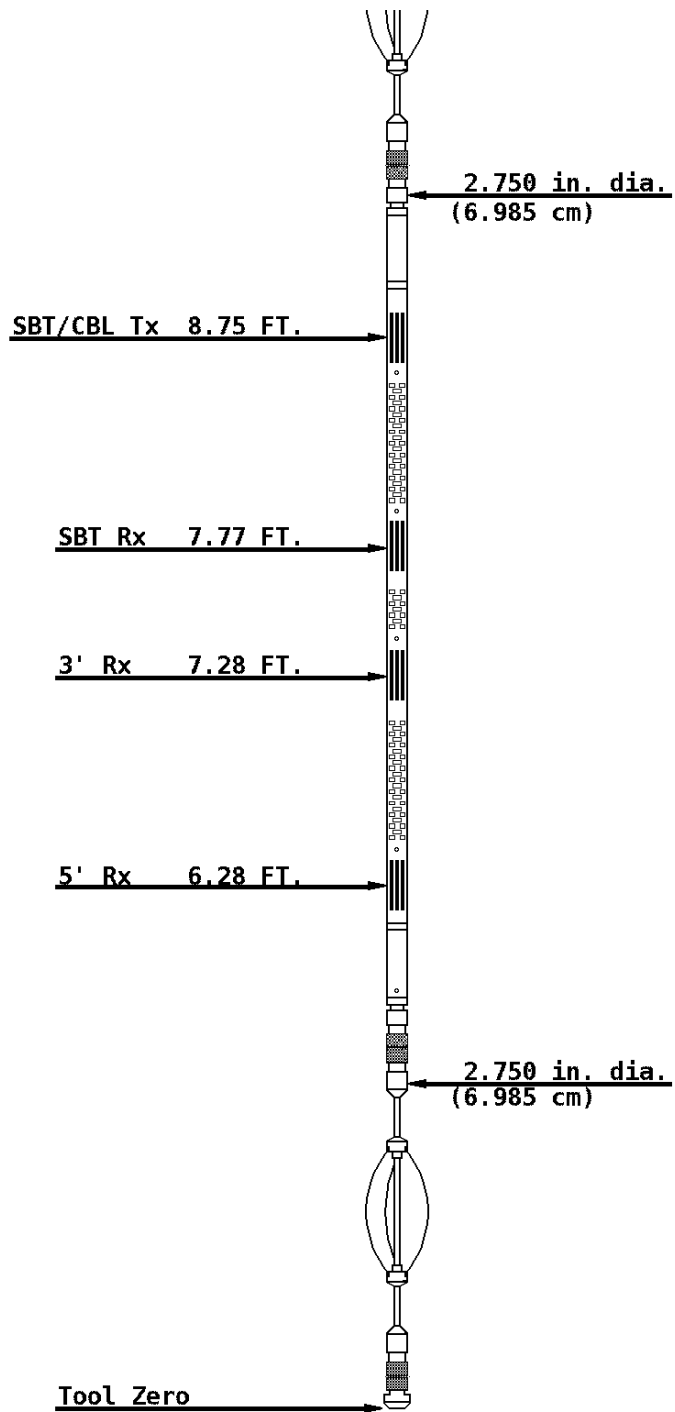
Length 3.08 FT.
Max. Diameter 2.750 IN.

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.



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FIELD SILT

COUNTY GARFIELD

STATE COLORADO



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