



SECTOR BOND LOG

COMPANY URSA OPERATING COMPANY	
WELL	MCLIN B6
FIELD	SILT
COUNTY	GARFIELD
LOCATION:	
SHL: 1265'	FNL & 0406' FEL
BHL: 0885'	FNL & 0742' FWL
SEC.13	TWP.6S RGE92W

TE COLORADO
OTHER SERVICES:

PERM. DATUM GROUND LEVEL	ELEV. 5648'
LOG MEASURED FROM K.B. 13 FT. ABOVE PERMANENT DATUM	
DILLING MEASURED FROM K.B.	

ELEV.: K.B. 5661
D.F. 5661
G.L. 5648

DATE	13-NOV-2014
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RUN NO. ONE

DEPTH DRILLER	7258'
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DEPTH	7081'
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BIM. LOG INTERVAL	10/16'
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10P LOG INTERVAL	1000
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OPEN HOLE SIZE	1.815
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TYPE FLOOD	WALKER
REMARKS	NO. 3

DENS.	VISC.	0.03
MAY REC TEMP	'F	176 REC F

EST CEMENT TOP	SEE 10C
FINA. REC. 1E11 :	1/2 BLO 1 :

EST. 1	CEMENT 101	CELL 100
TIME WELL	READY	BNA

TIME	LOGGER ON BTM	SEE LOG
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EQUTP. NO.	14247
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LOCATION	CASPER
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RECORDED BY P. MAZUR

WITNESSED BY	L. GREGGER
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BOREHOLE RECORD

RUN NO.	BIT	FROM	TO
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[illegible]

CASING RECORD	SIZE	W/I/I	G
CUMULATIVE STRETCH	0.03%		

30MACE STKING	0.023	
BPOT STPTNC		

PROD STRING	4 5"	11 6
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1	TNEB		
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[illegible][illegible]

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 # 103088681
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

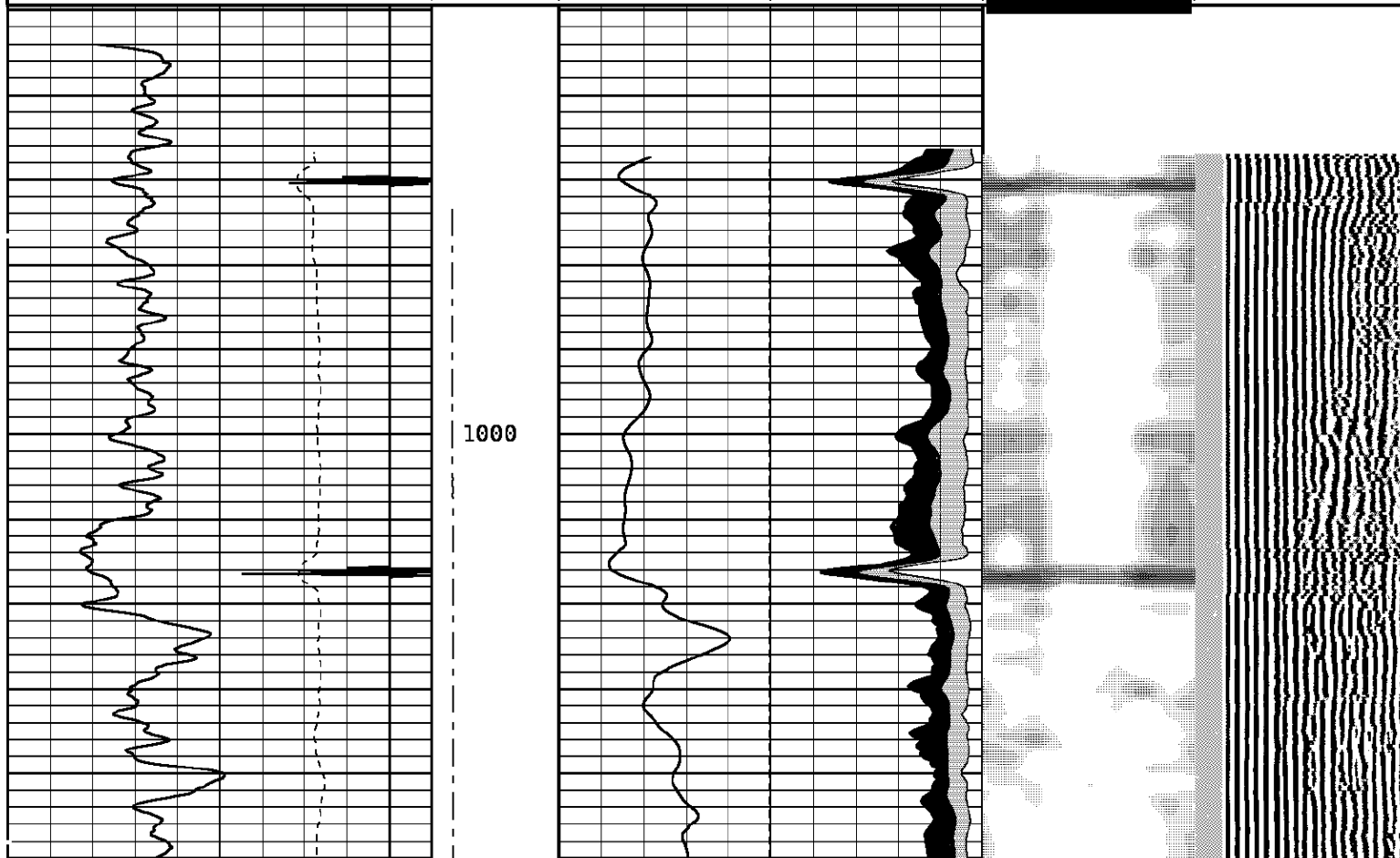
Bit Size	7.875	Run No.	Tool Type	Tool No.	Other
Well Status	NEW DRILL	ONE	CENA	229	
Surface Pressure		ONE	CTBA	323	
Shut In	Flowing	ONE	GRBA	317	
		ONE	CENB	153	
		ONE	SBTA	237	
		ONE	CENC	220	

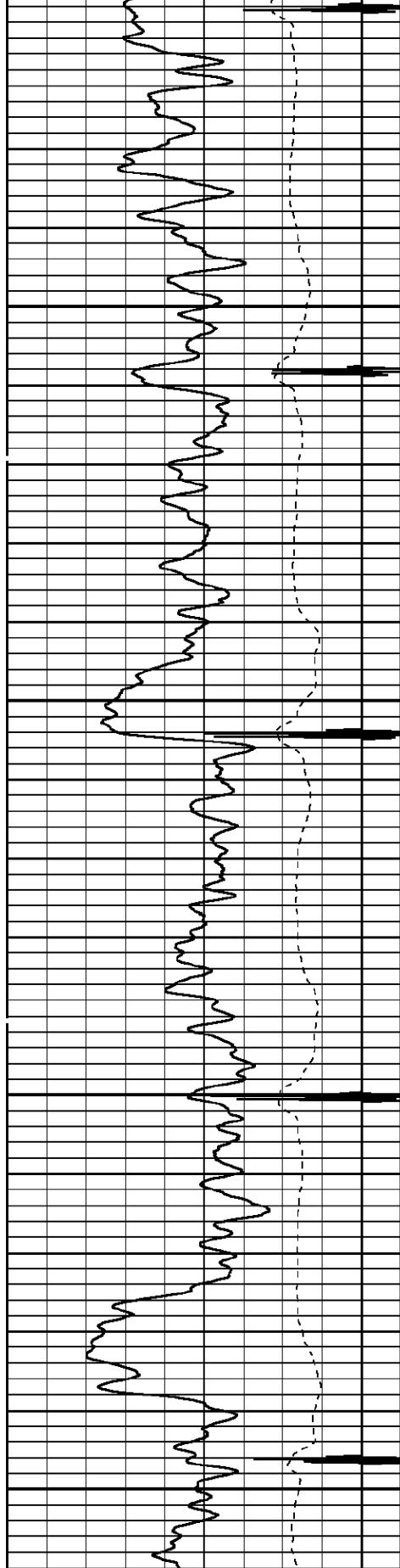
PROCESSED VERSION: 2012.07.18.162"

103088681 CBLMAIN

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

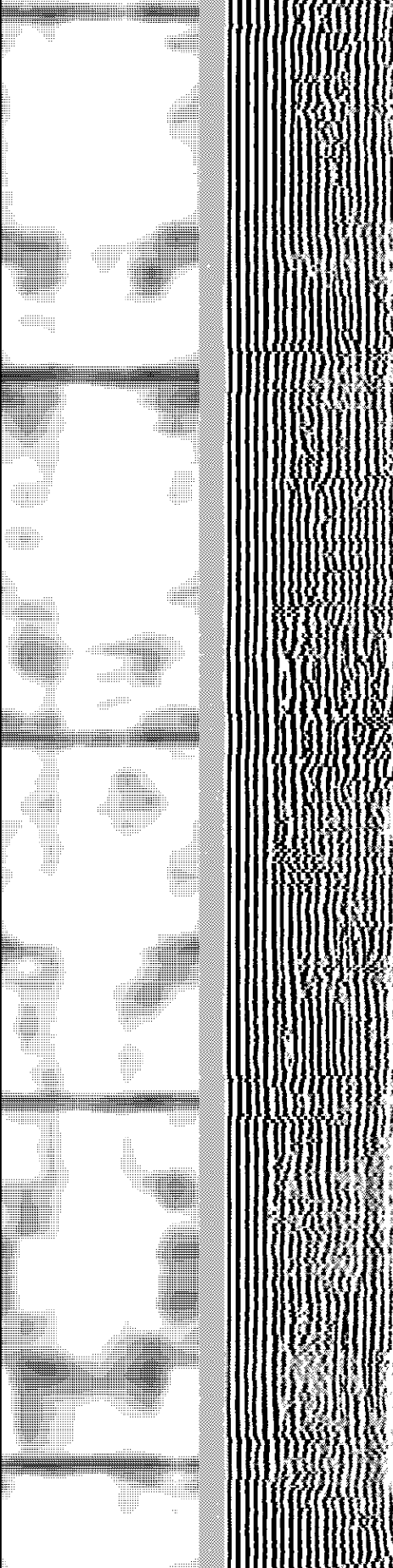
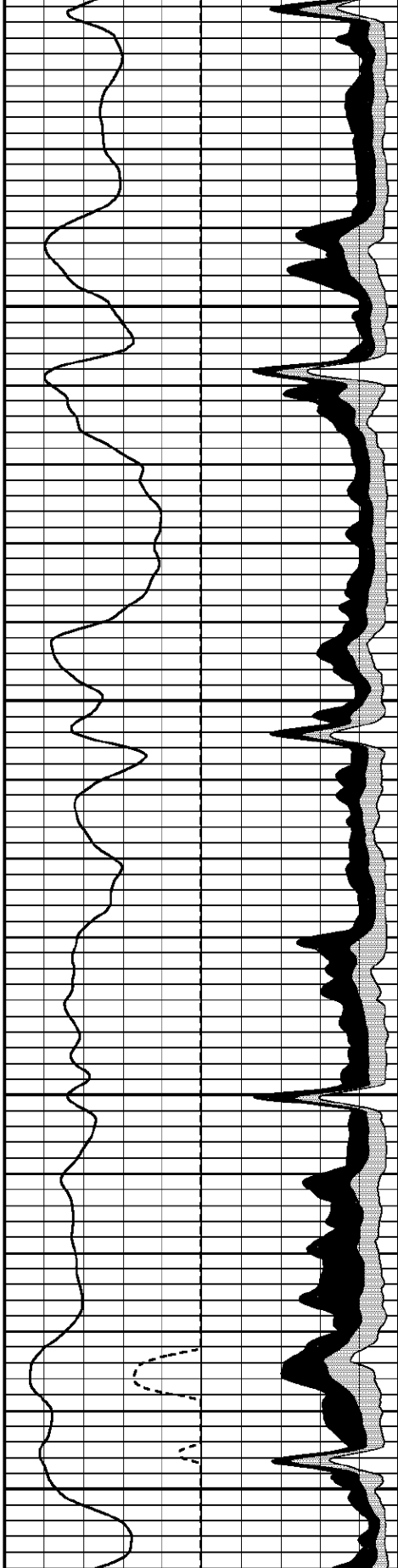
CCL						MAX ENERGY										
-3600	Millivolts	400				0	mv	100								
GAMMA RAY						AMP X 5									AVG ENERGY	
0	API	150		0	mv	20	0	mv	100							
TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT			MIN ENERGY									VARIABLE ENERGY
305	Microseconds	205	0	2500	0	mv	100	0	mv	100	0	mv	80	200	us	1200

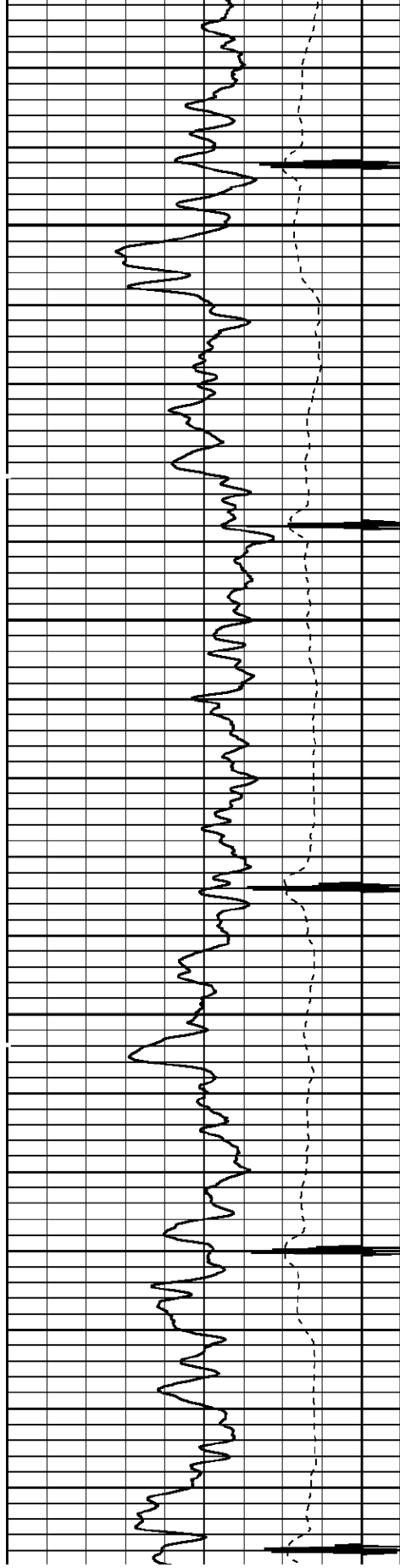




1100

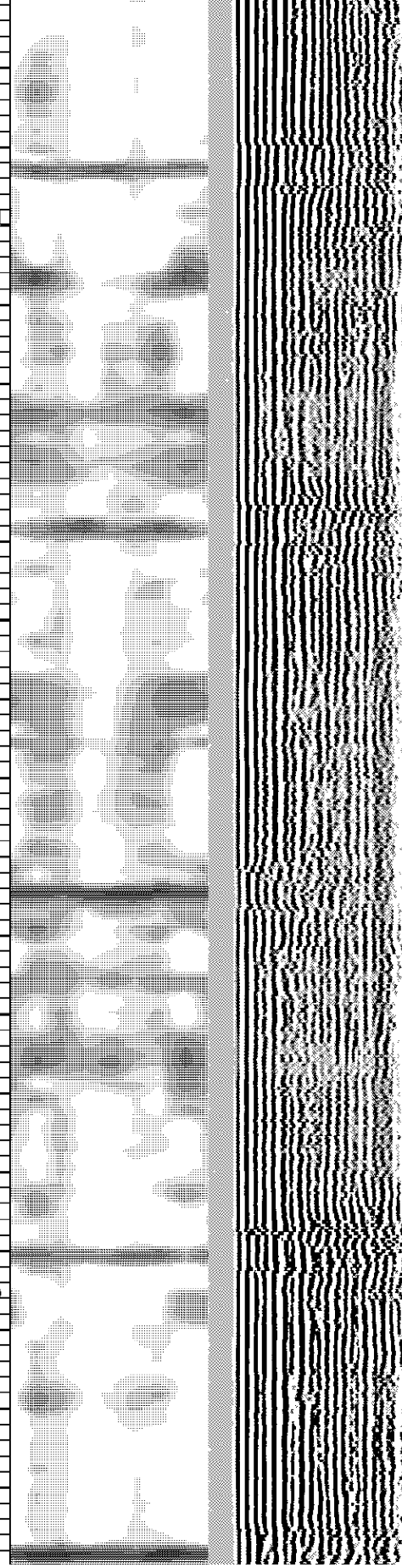
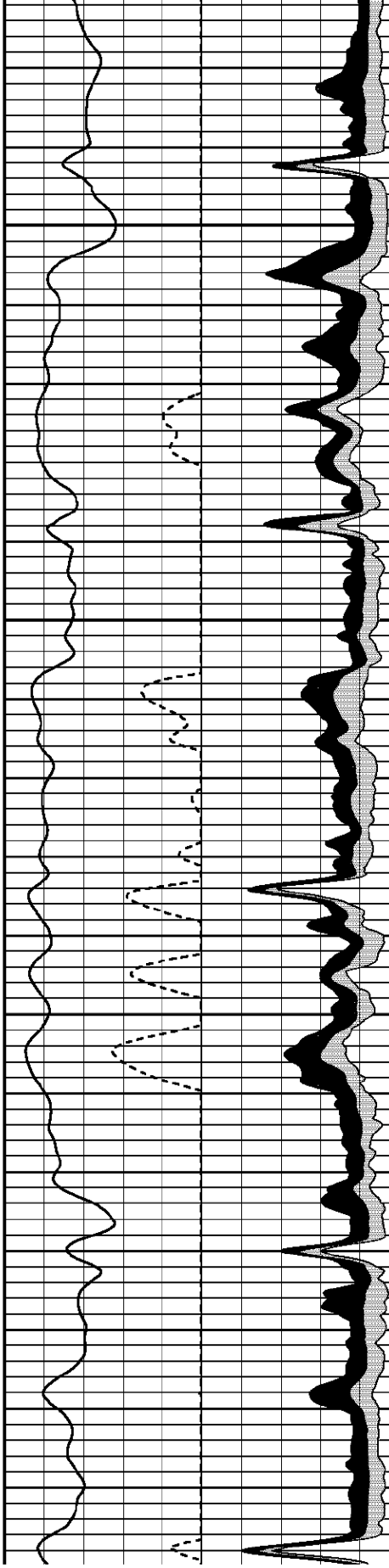
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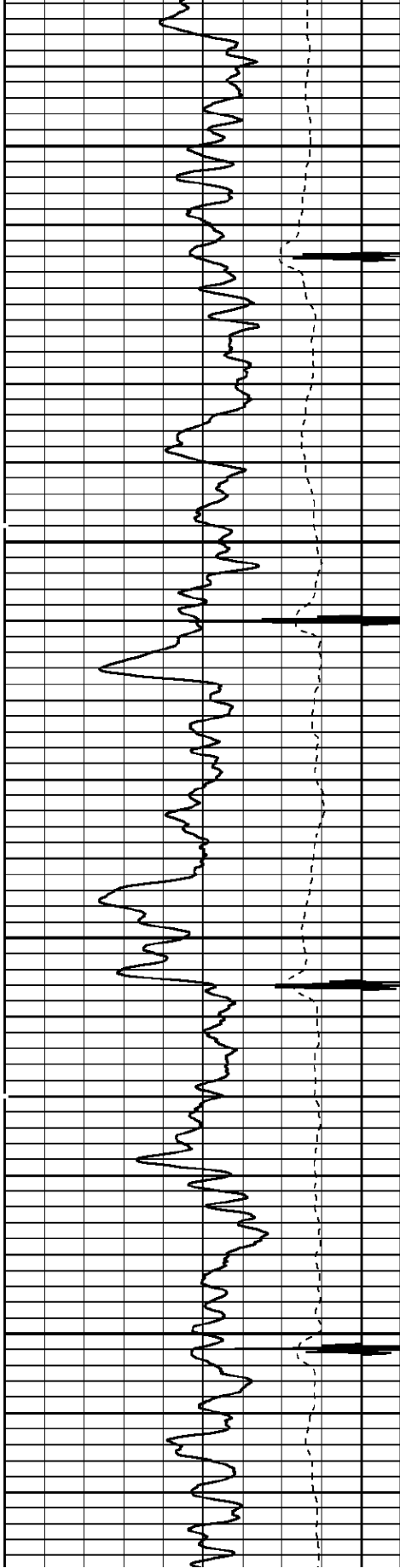




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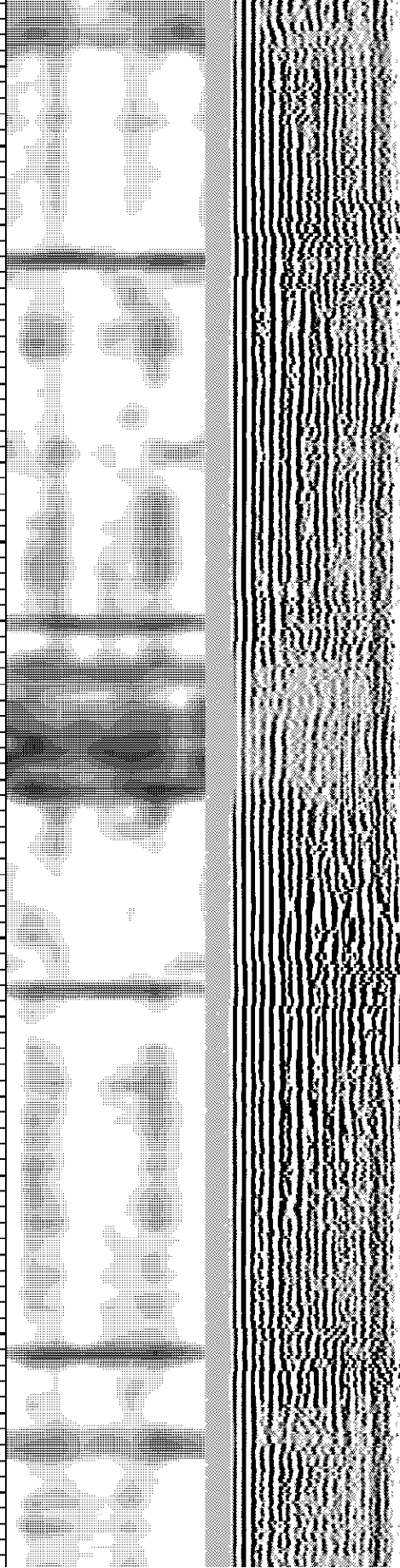
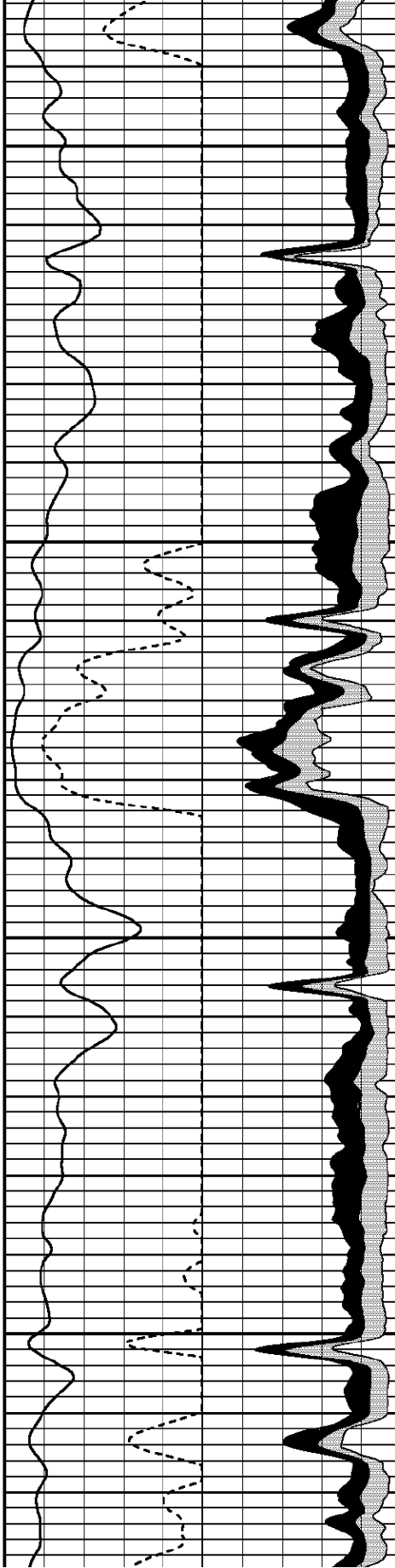
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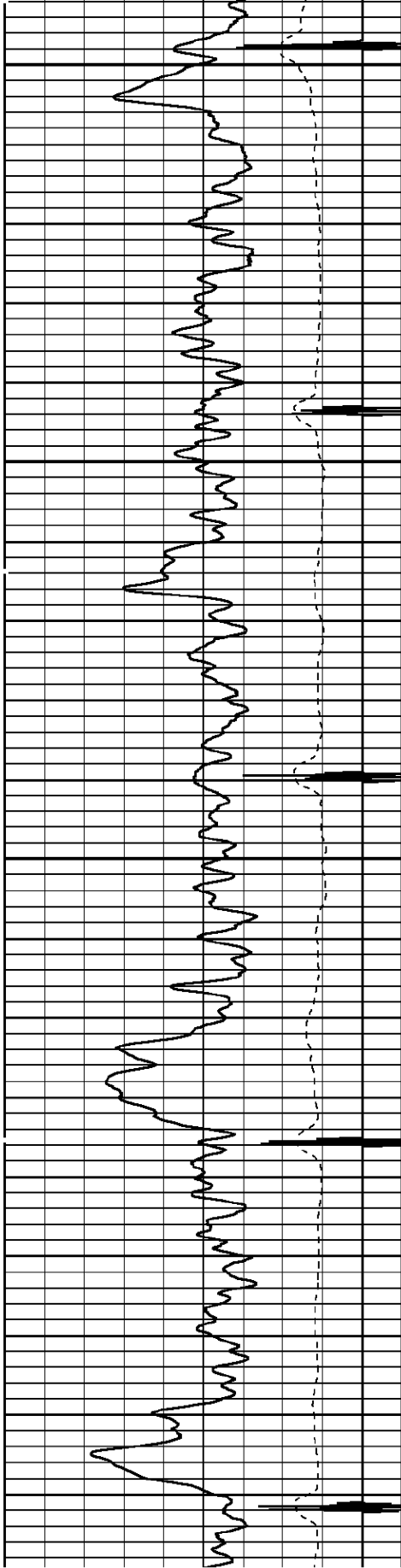




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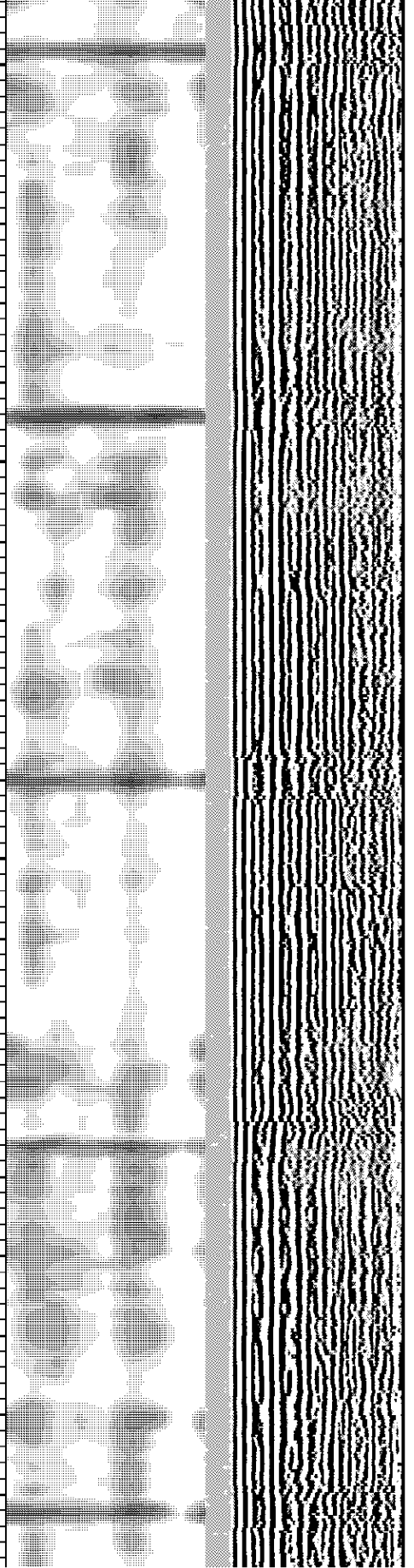
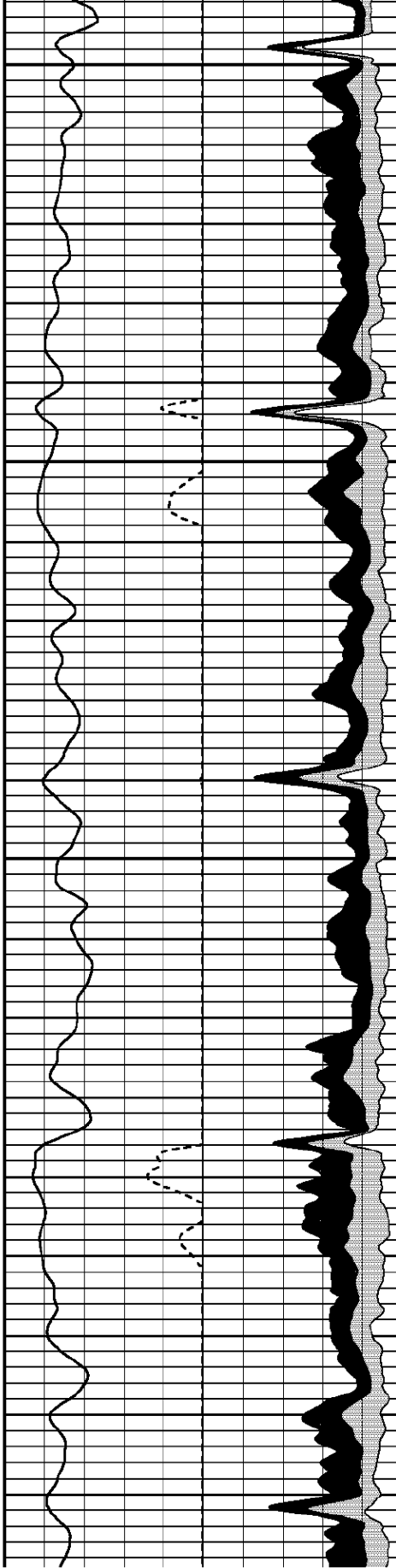
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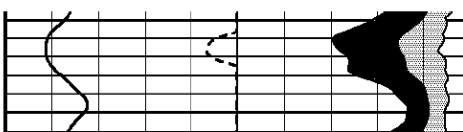


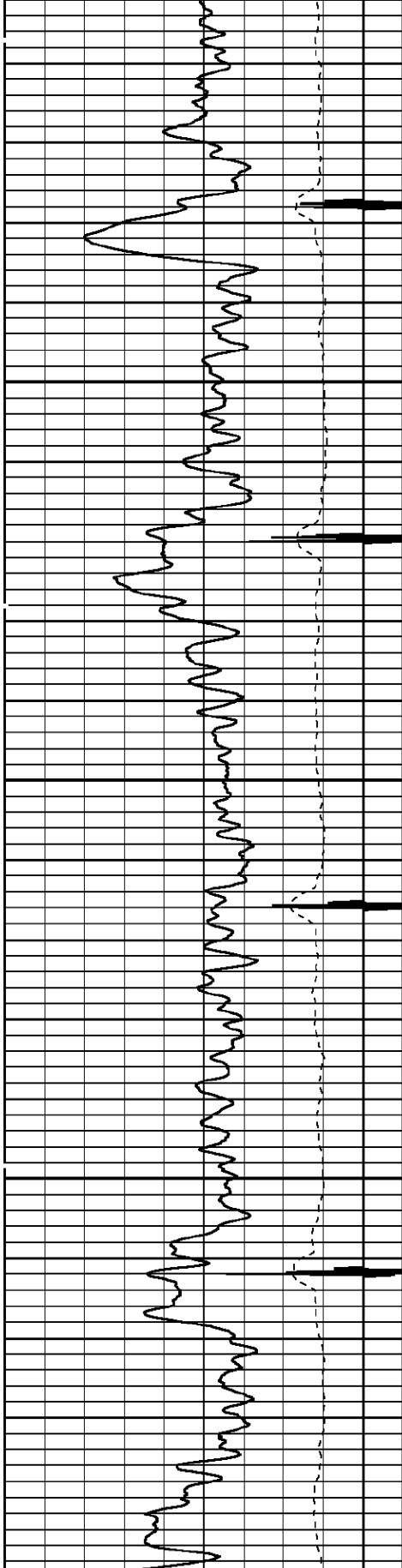
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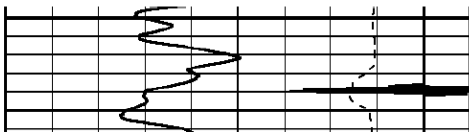
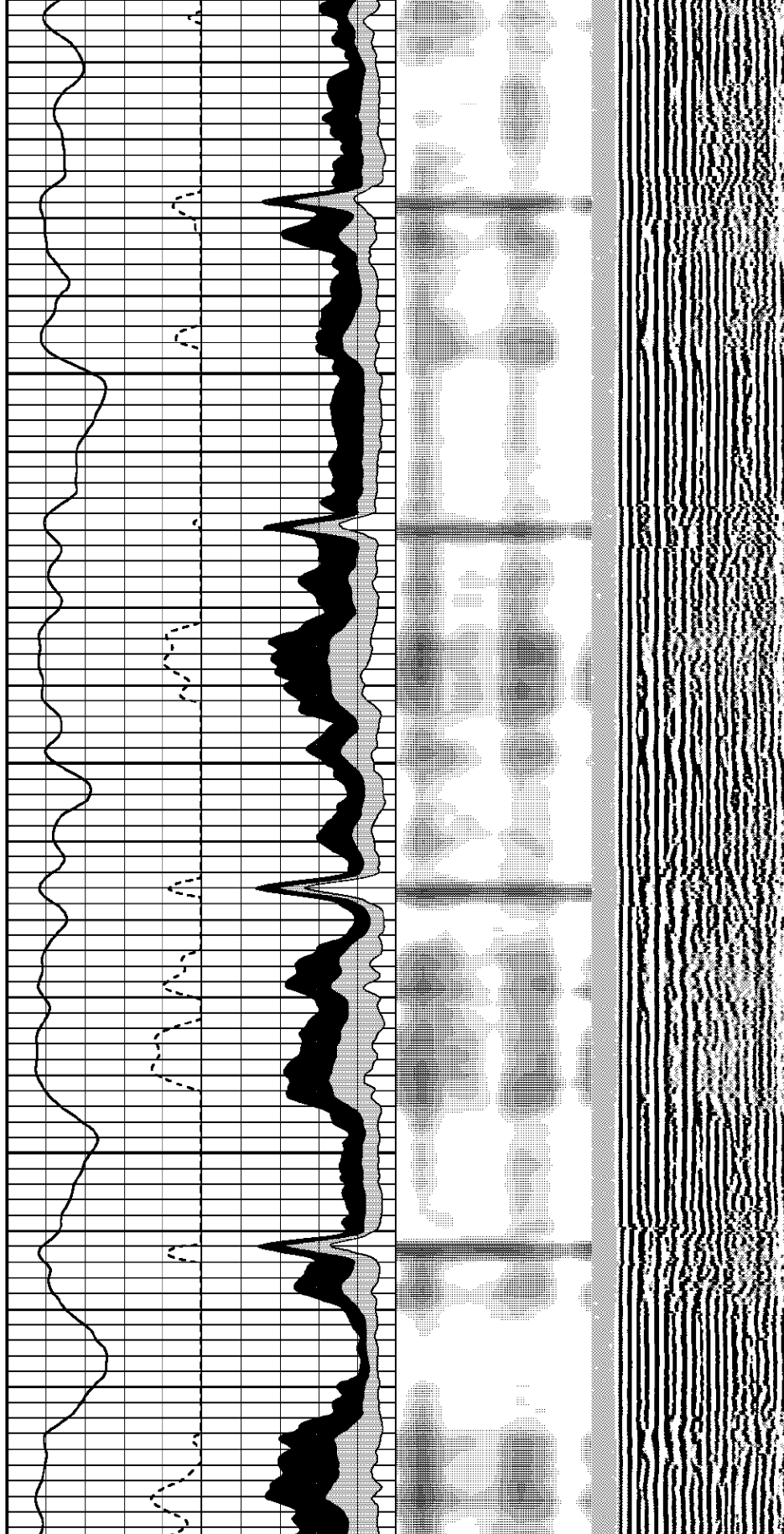


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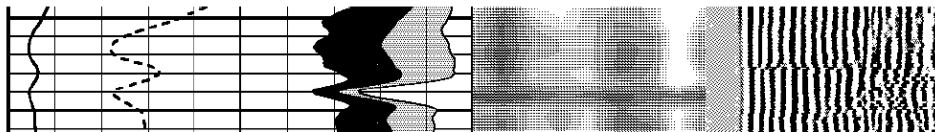


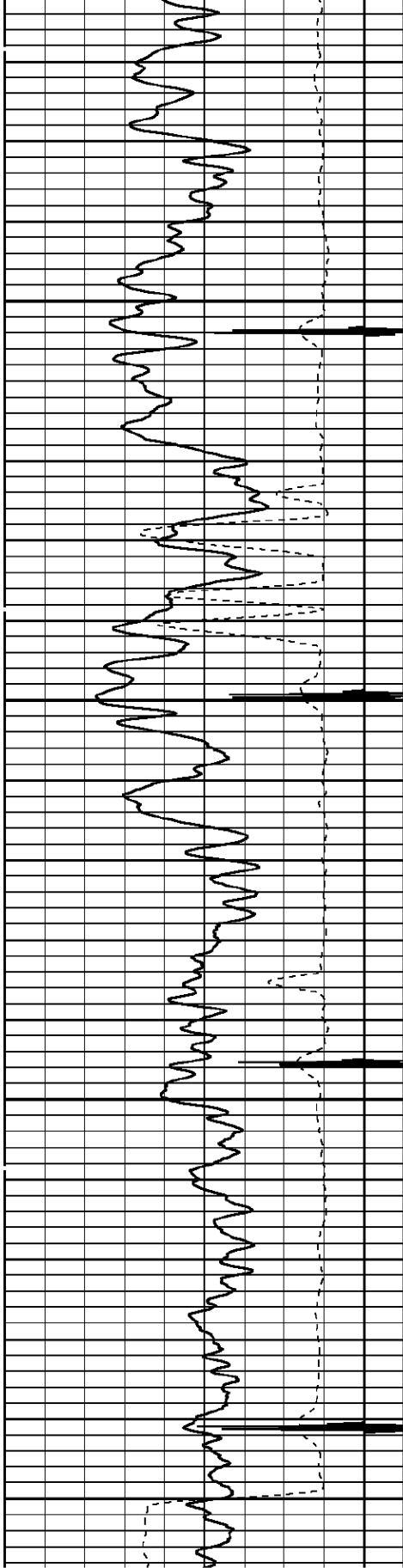


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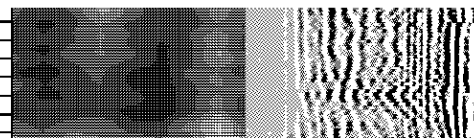
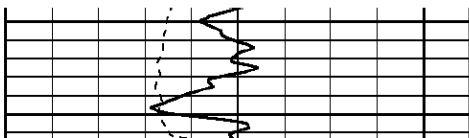
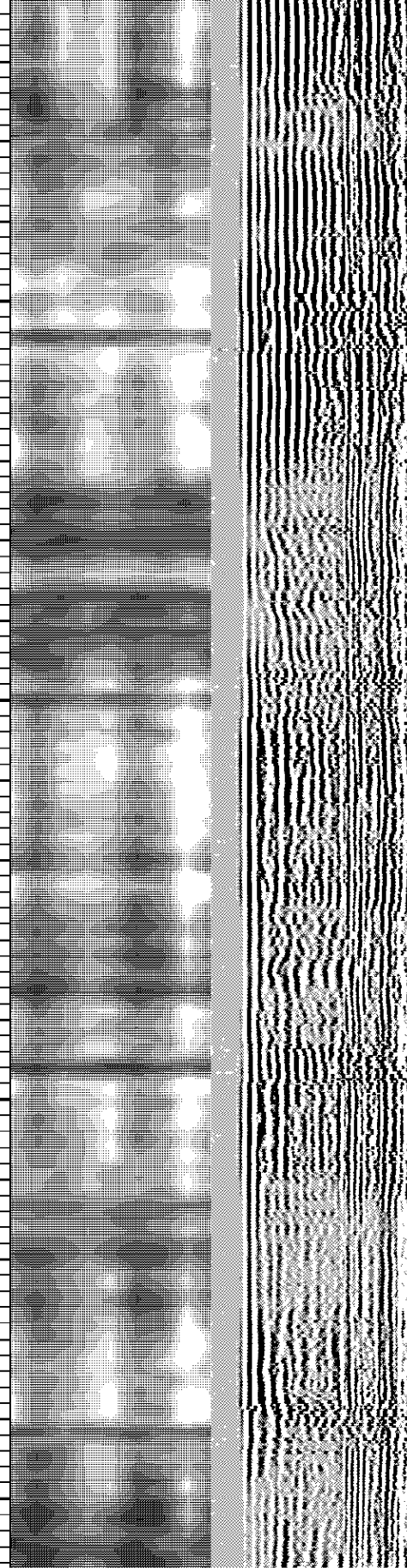
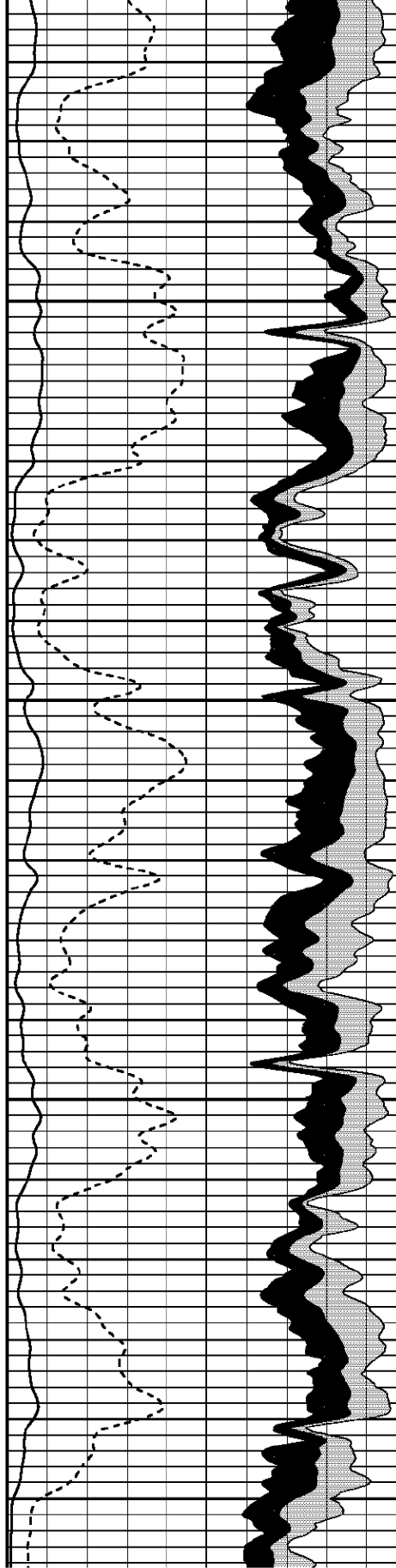
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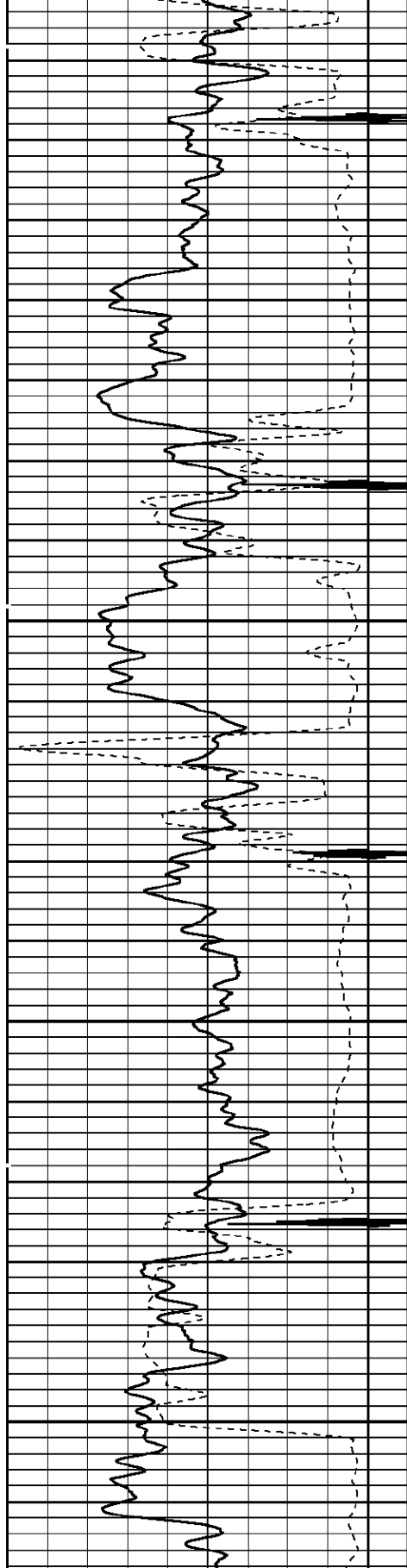




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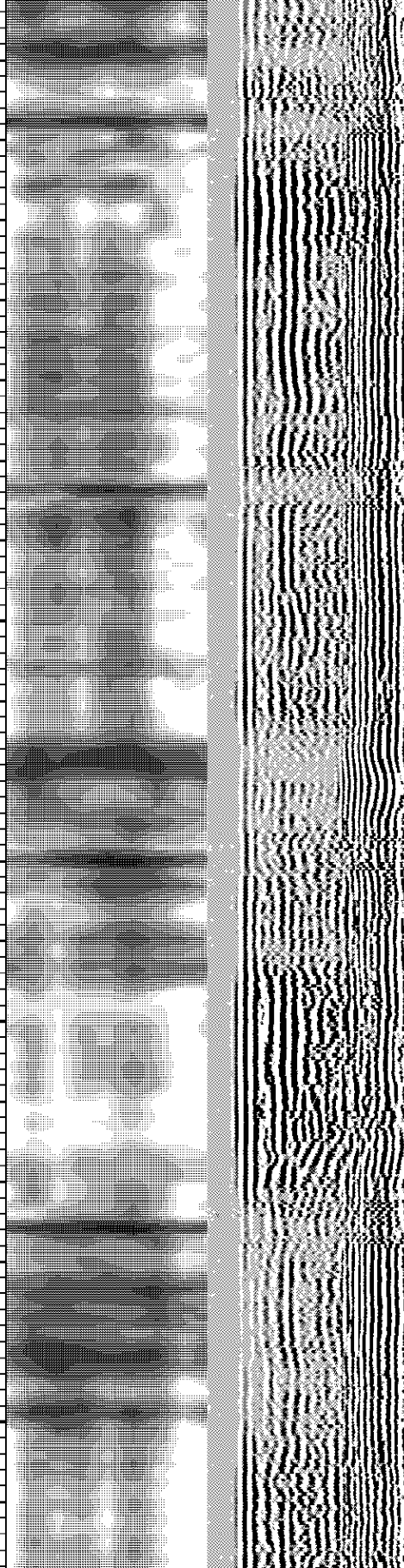
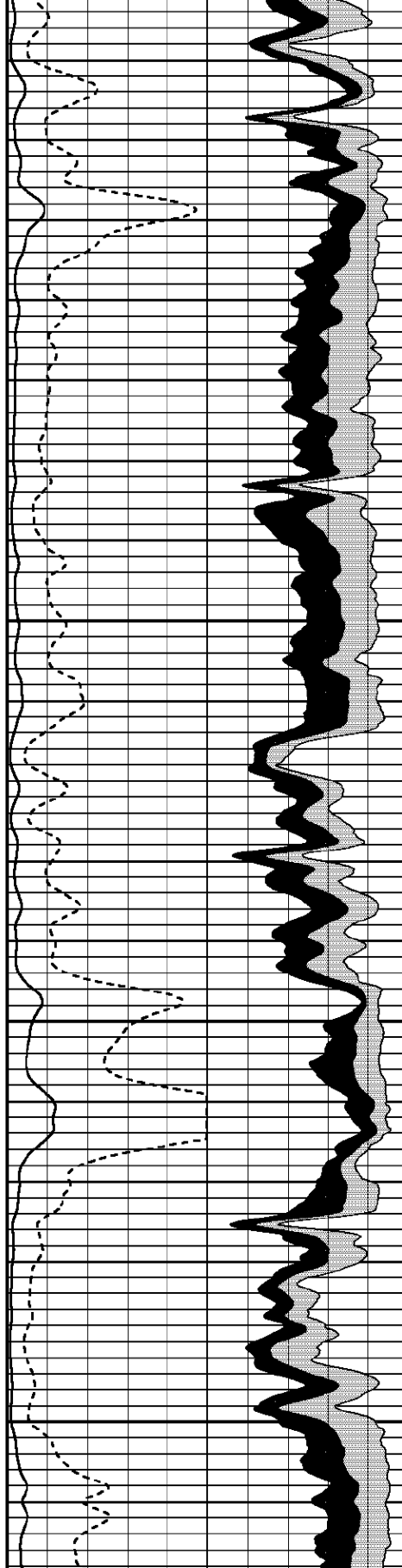
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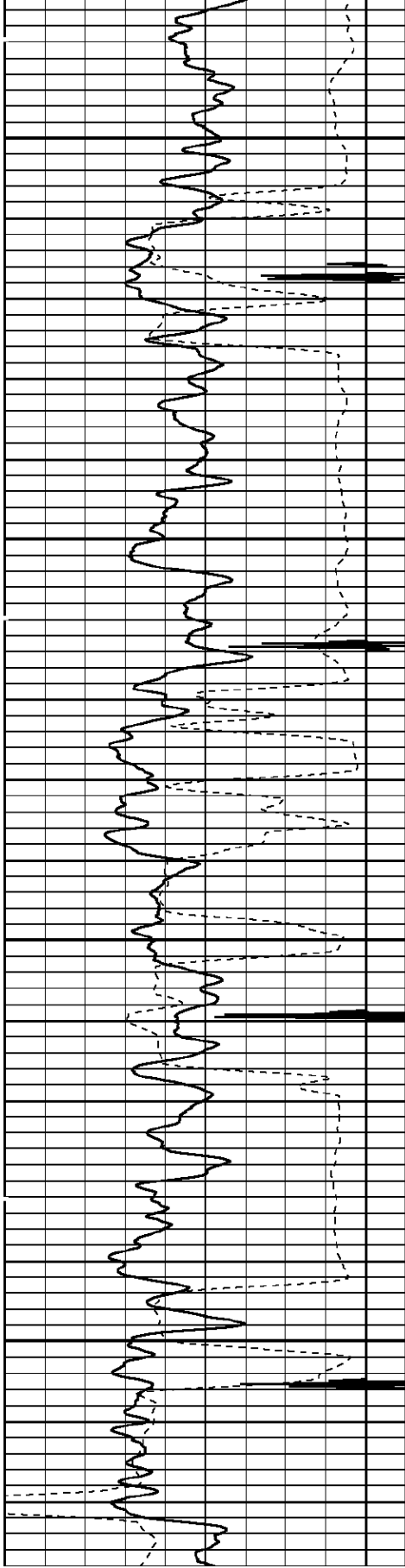




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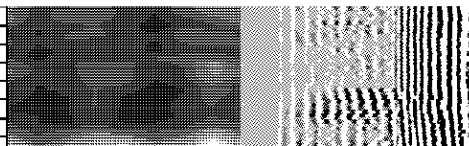
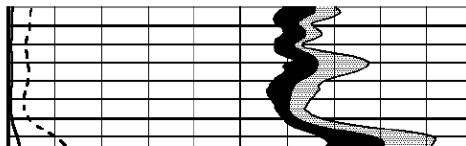
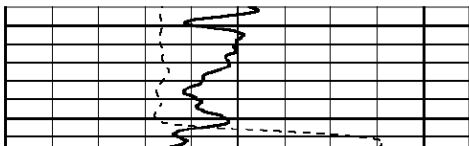
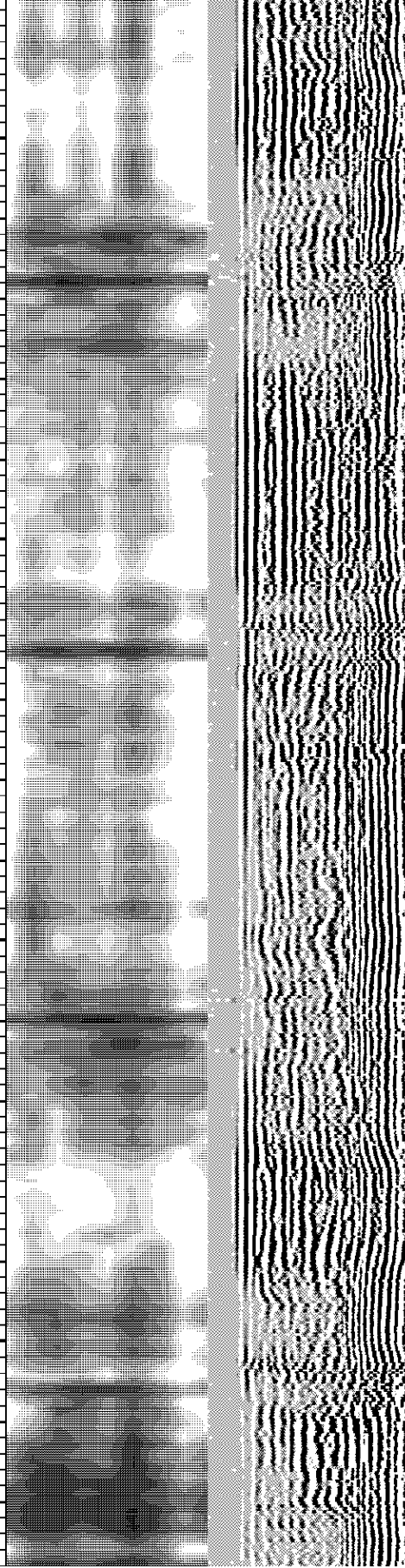
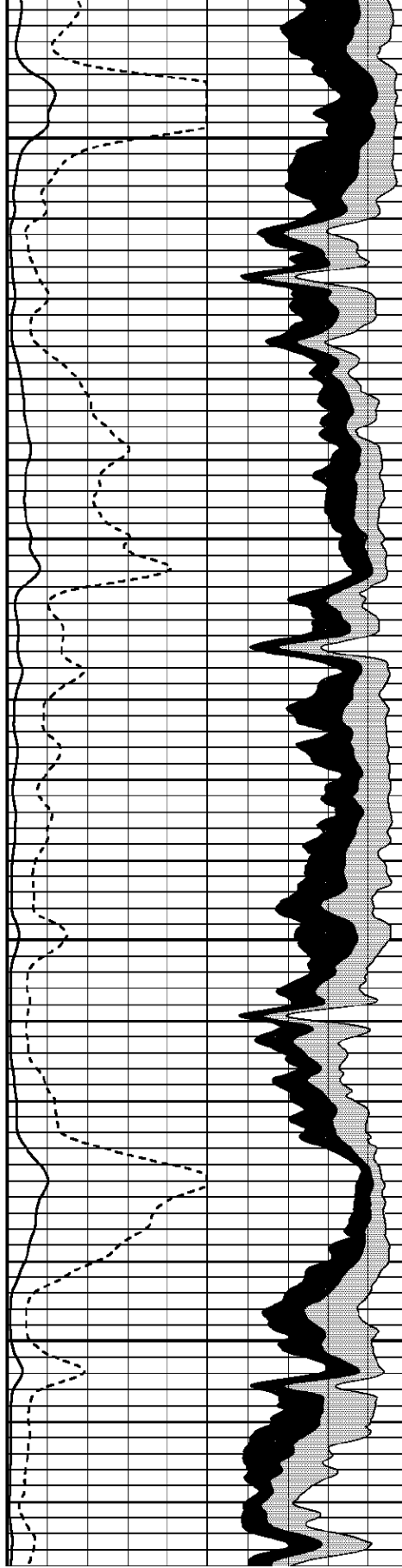
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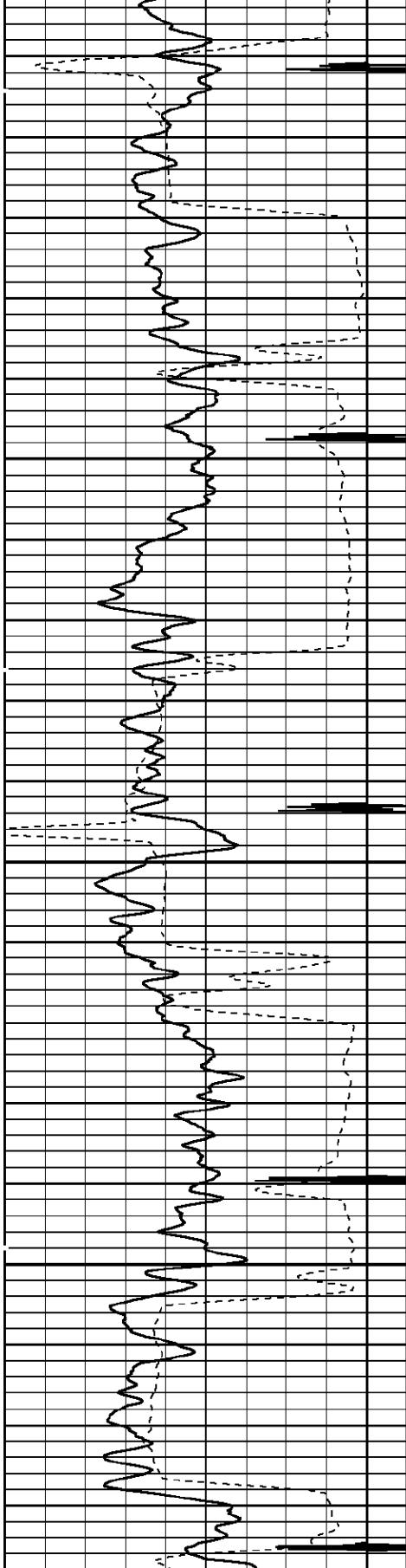




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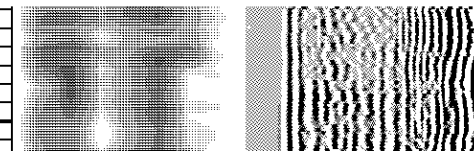
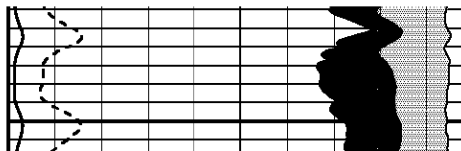
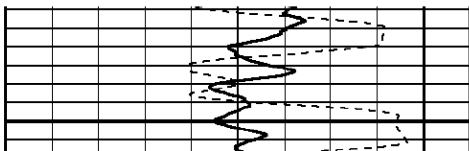
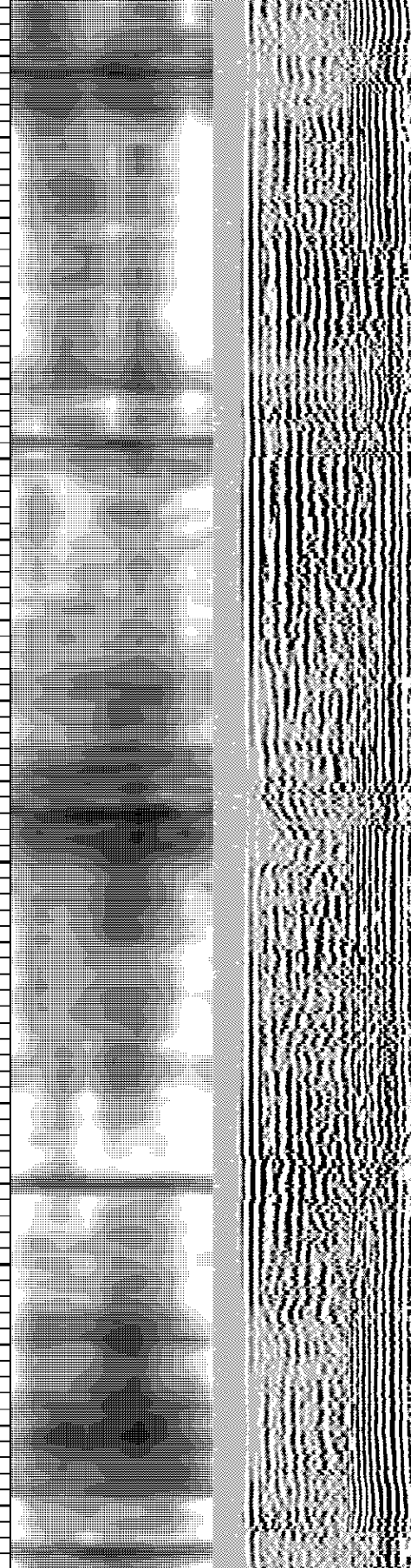
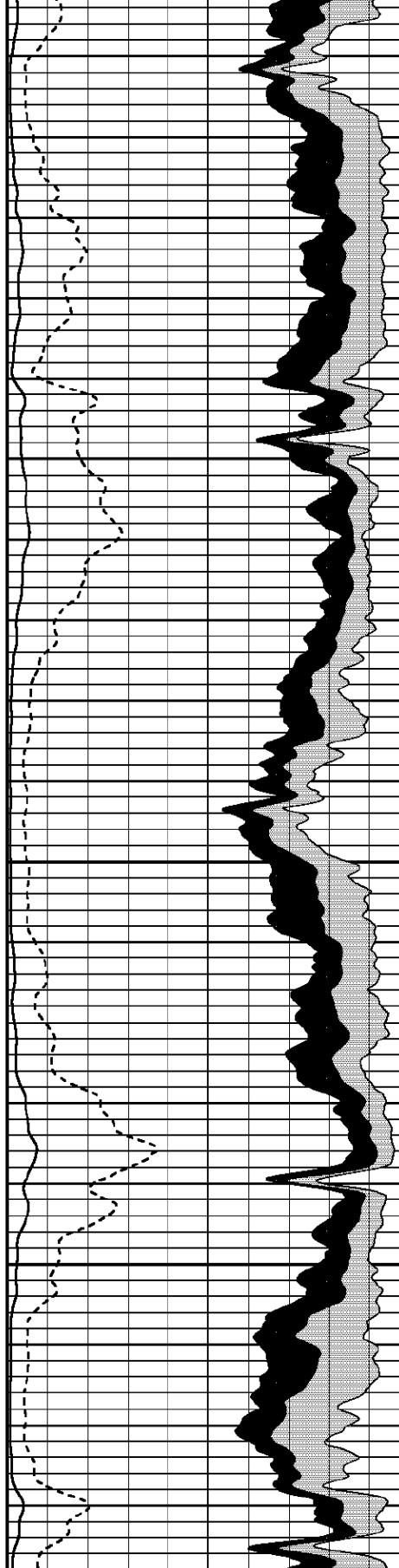
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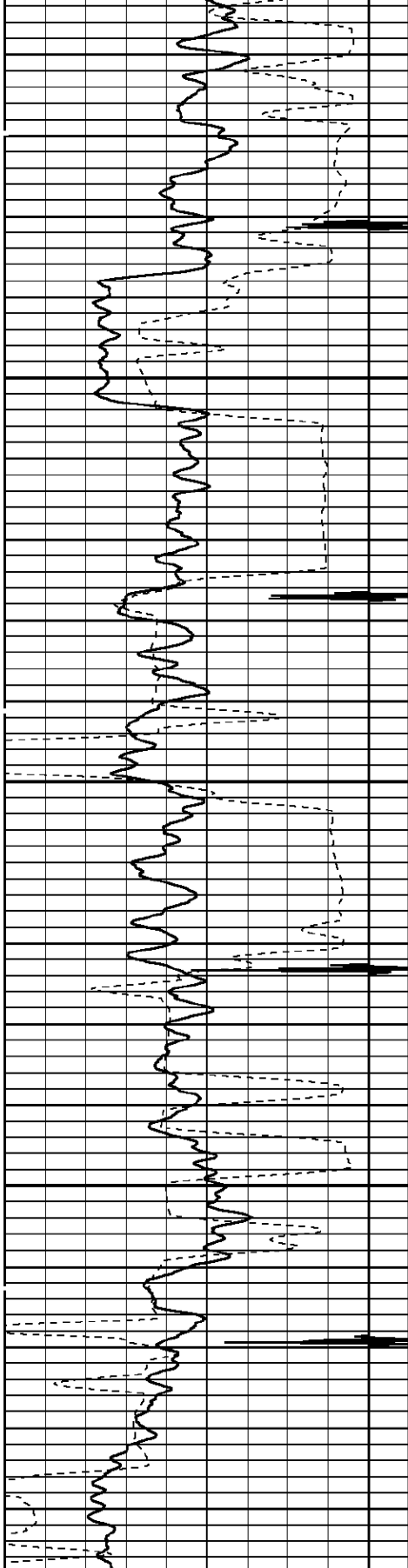




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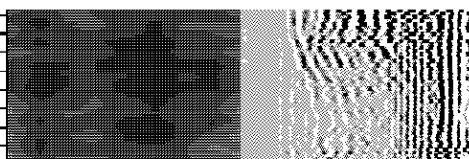
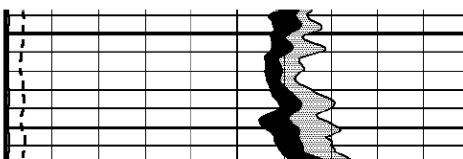
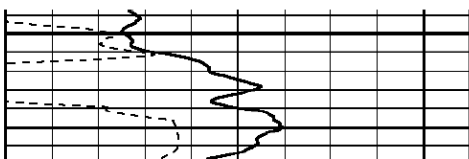
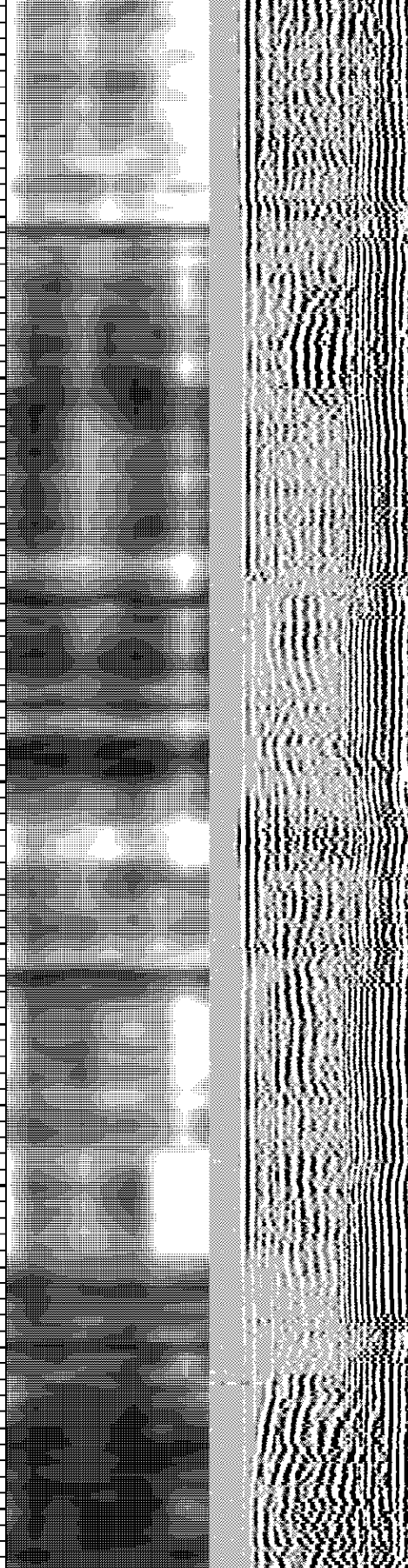
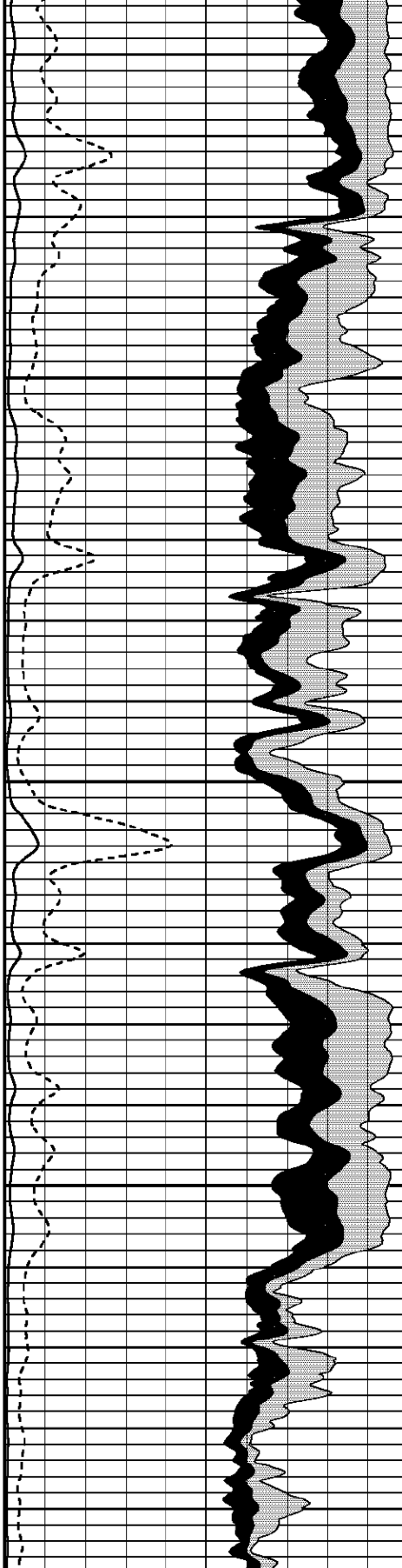
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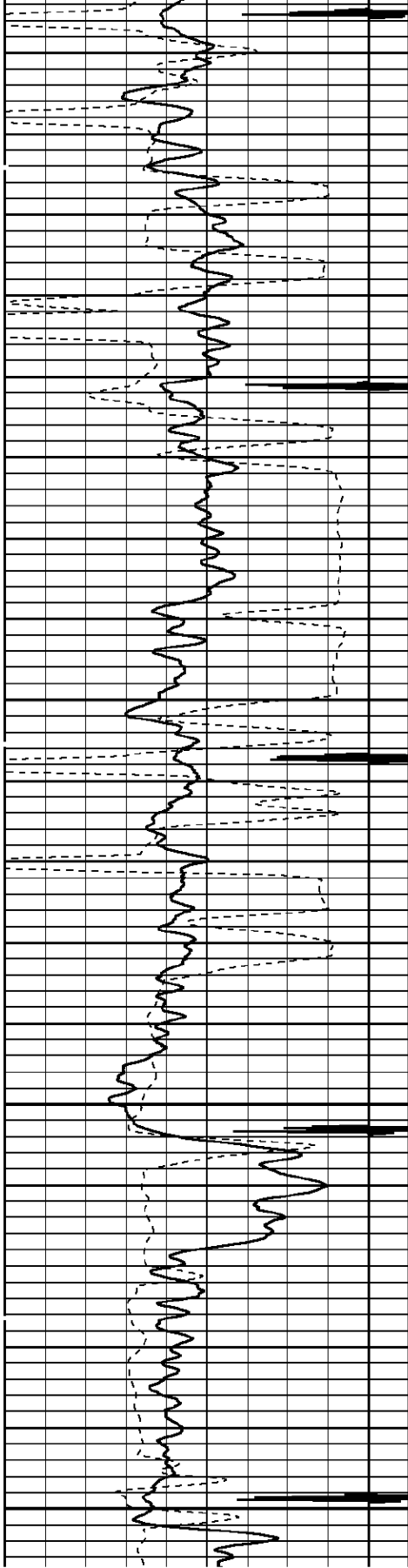




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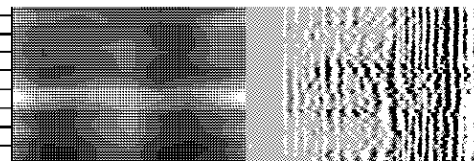
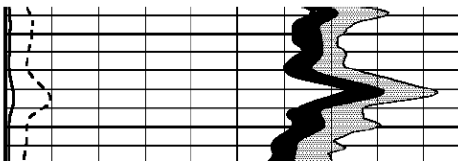
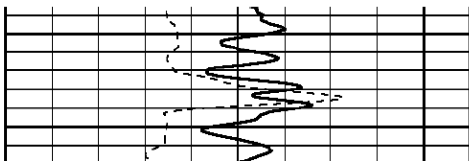
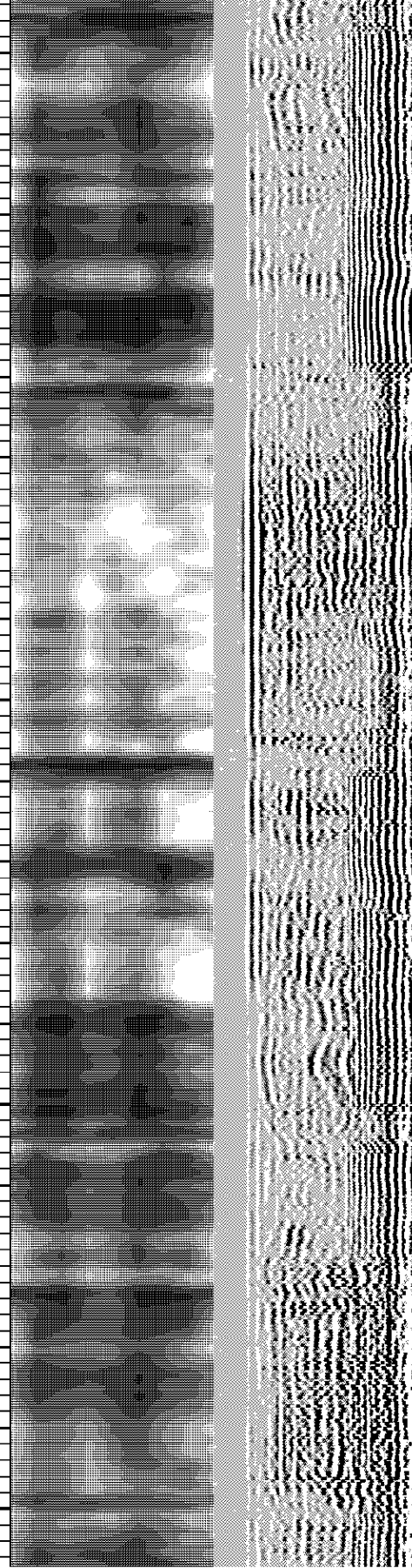
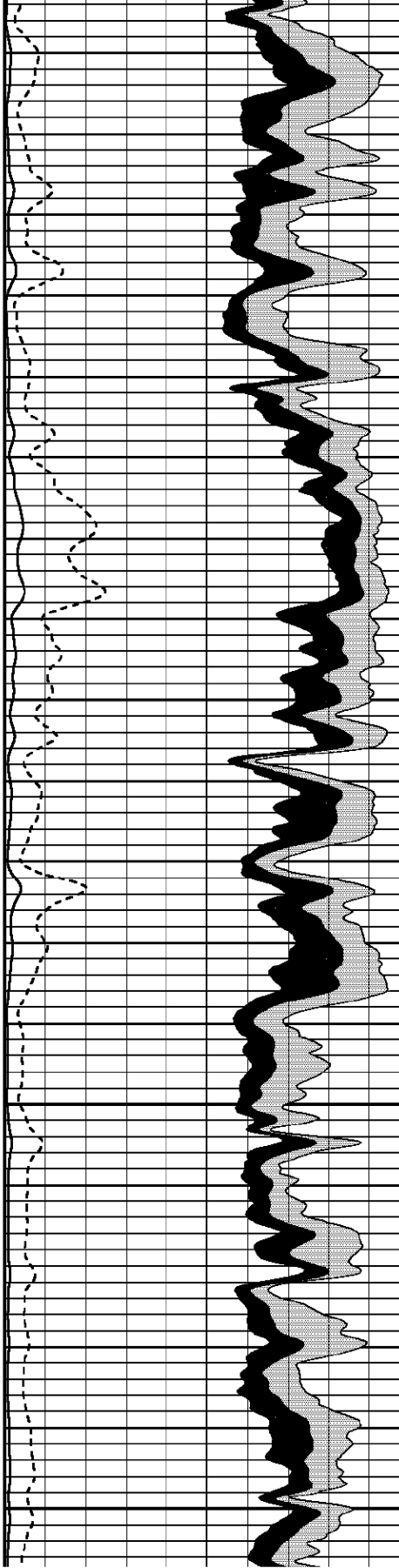
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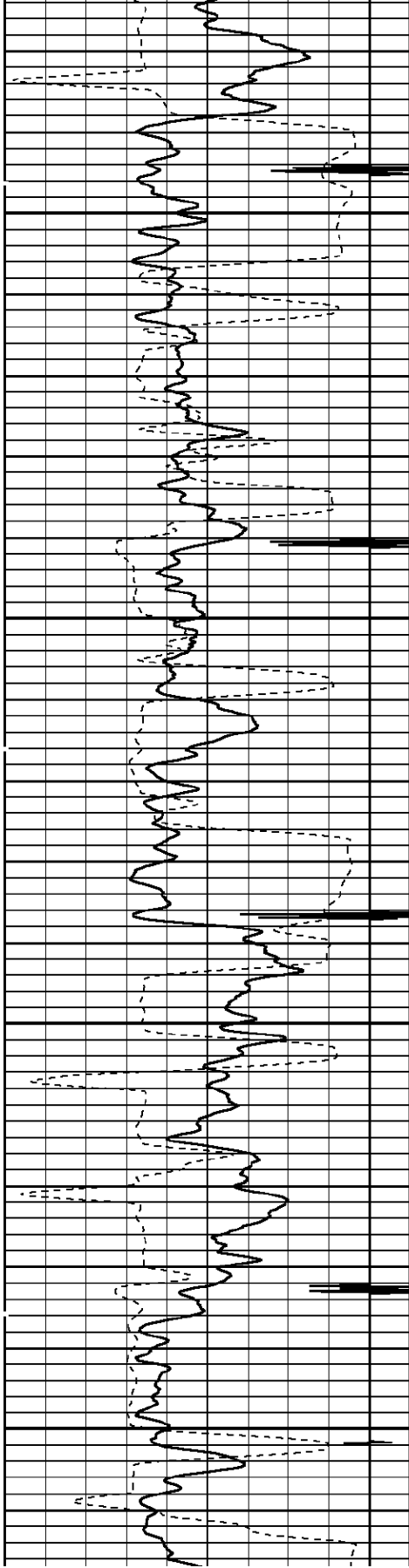




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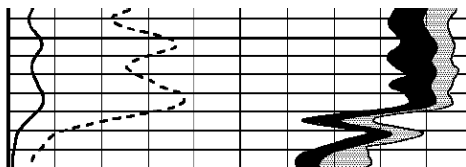
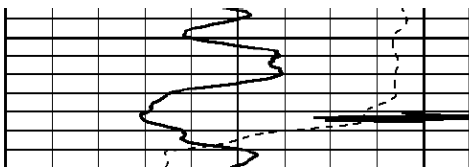
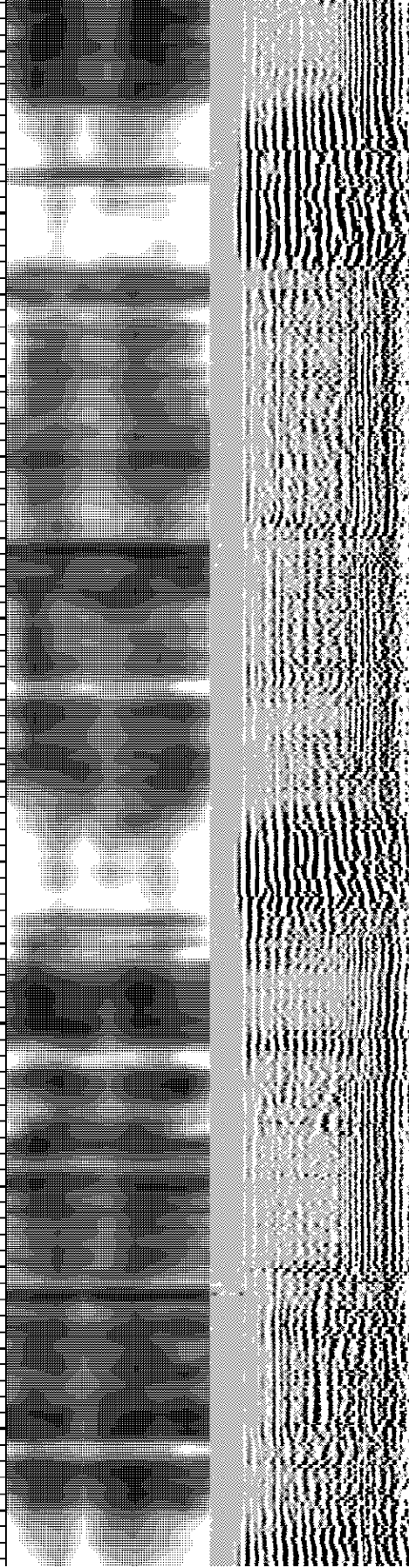
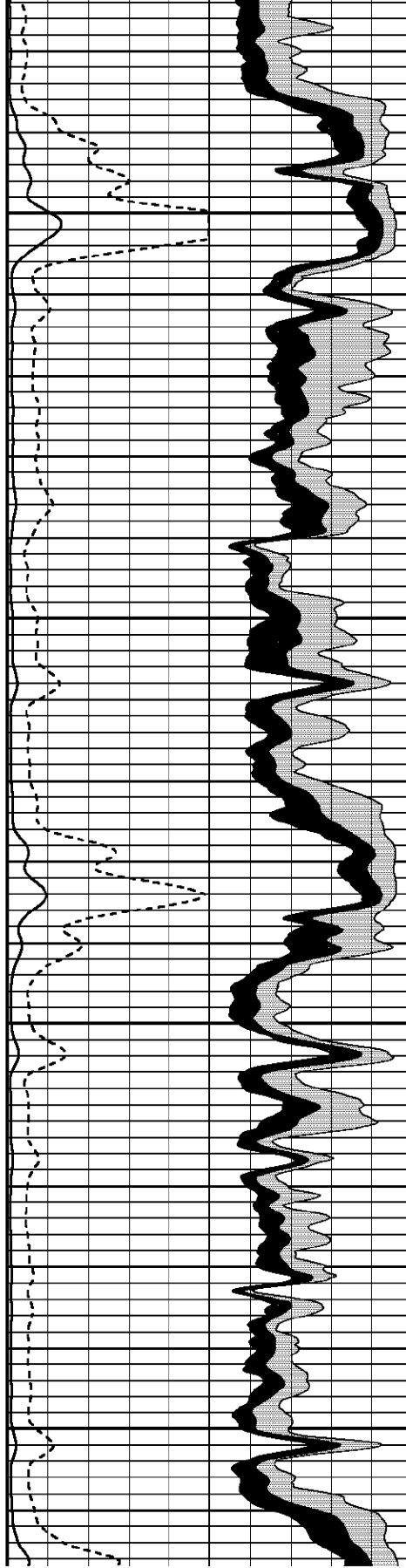
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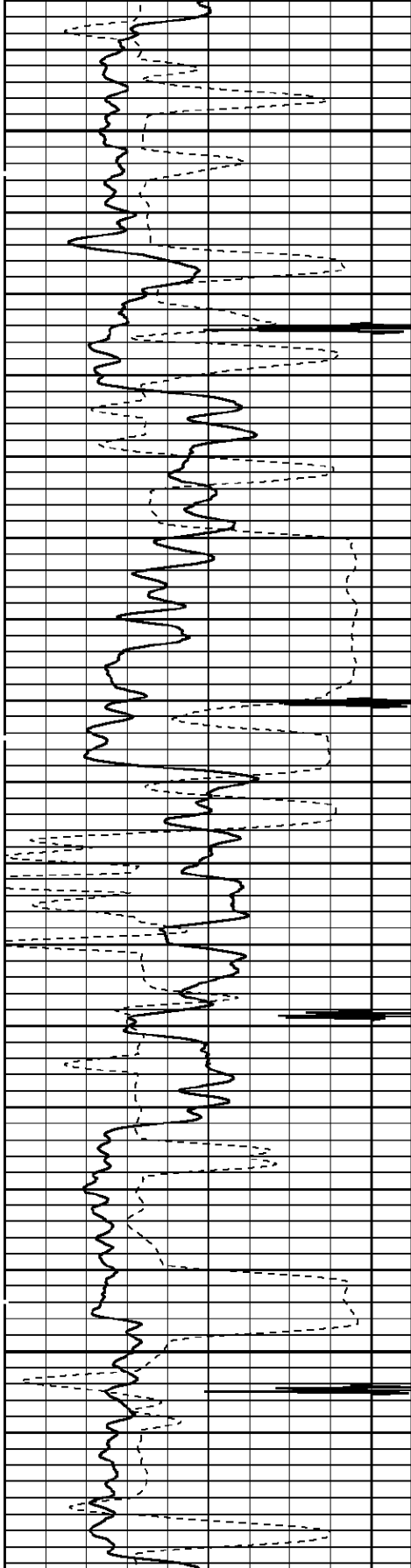




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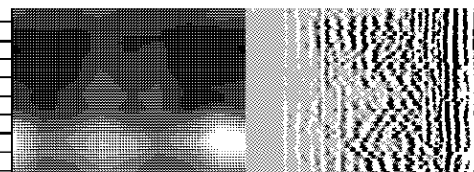
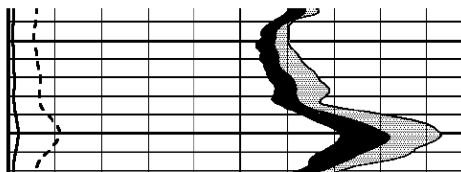
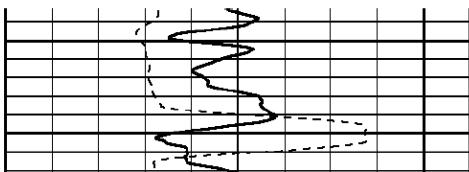
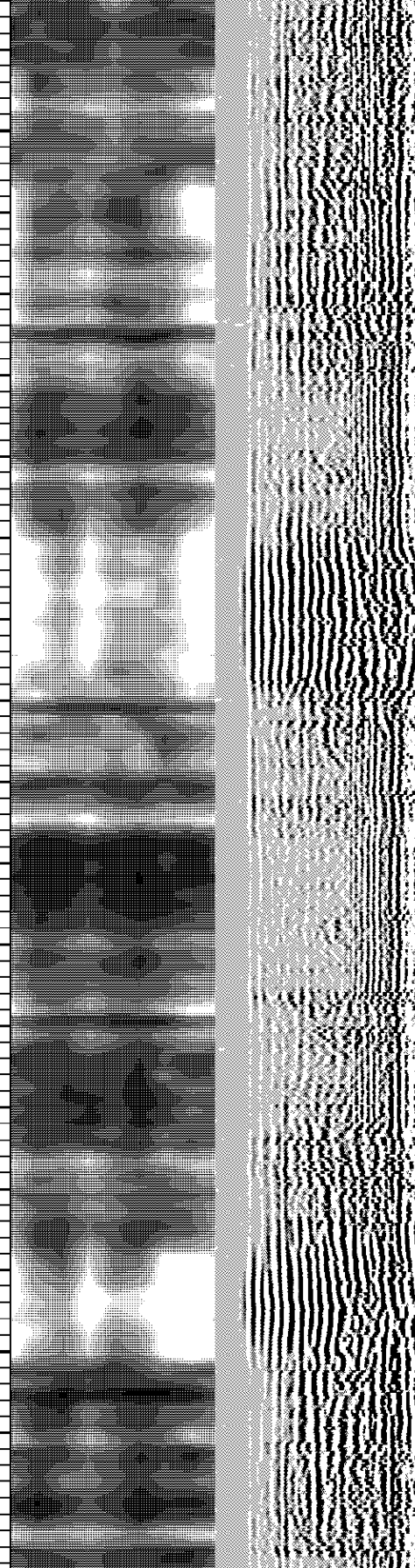
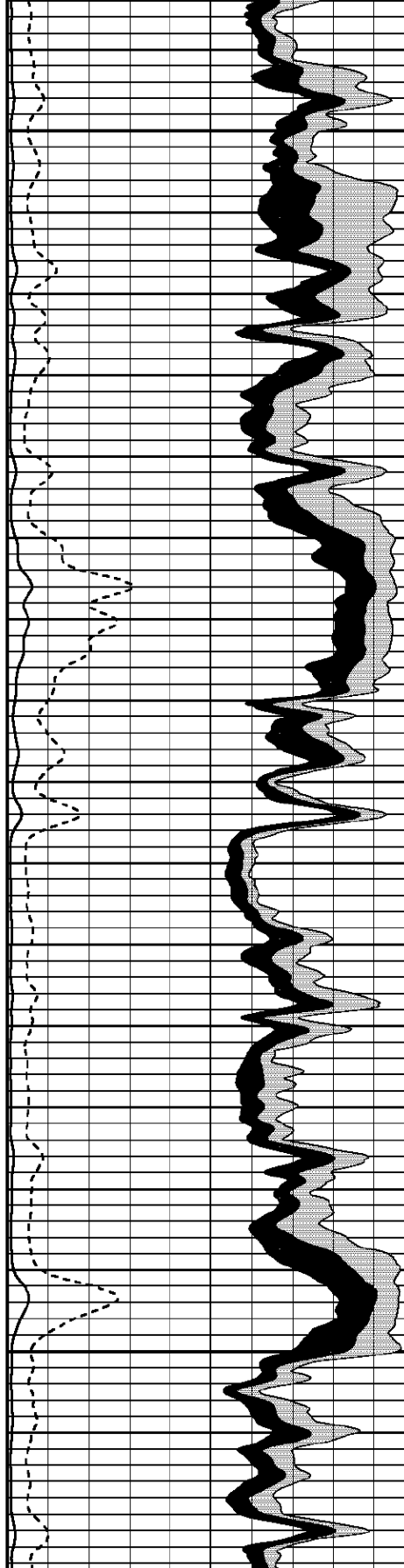
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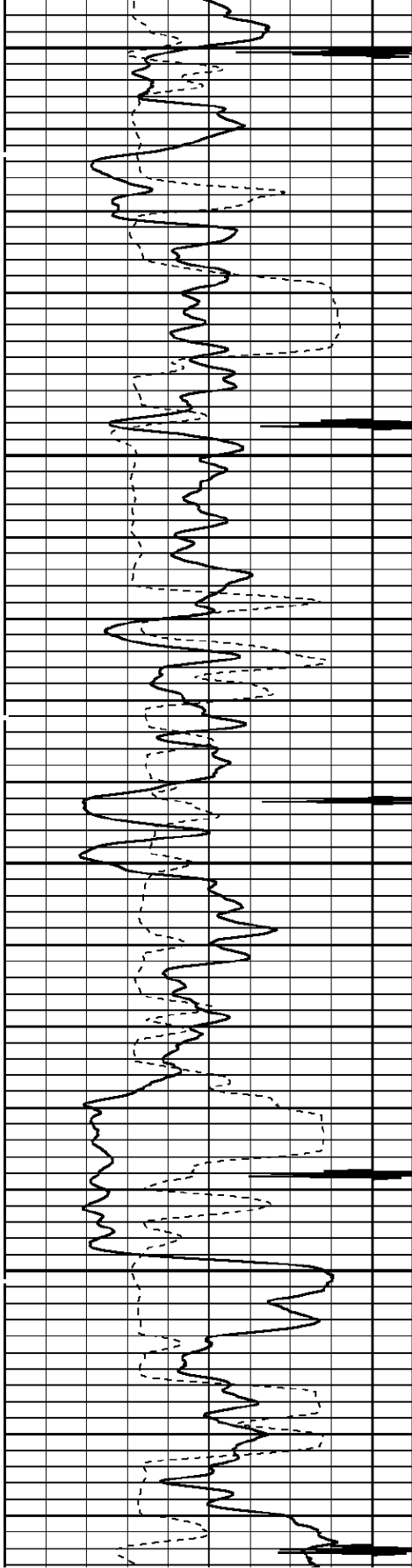




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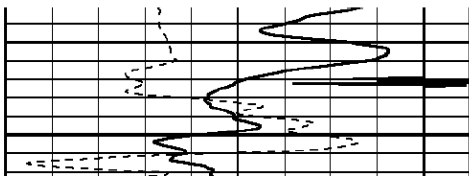
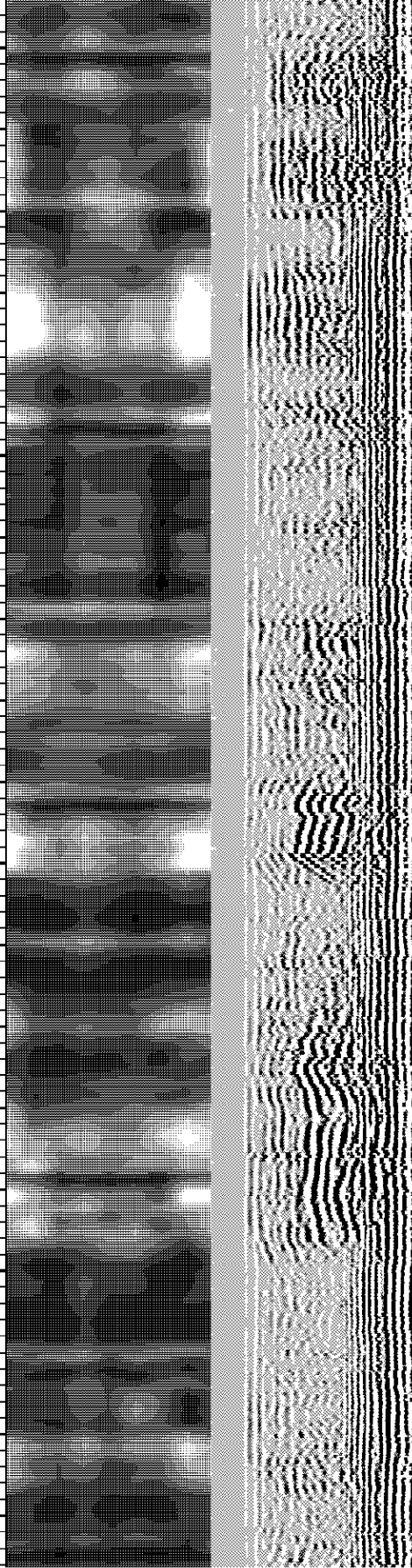
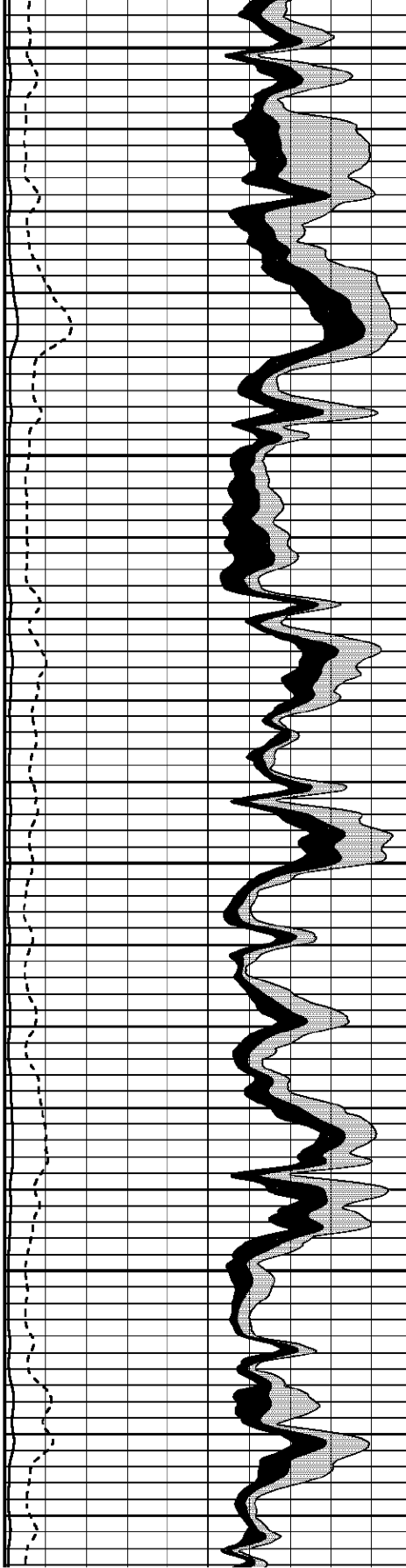
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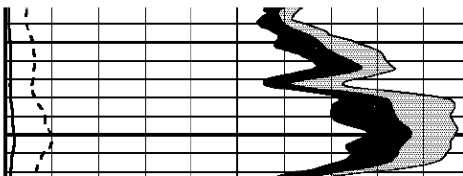


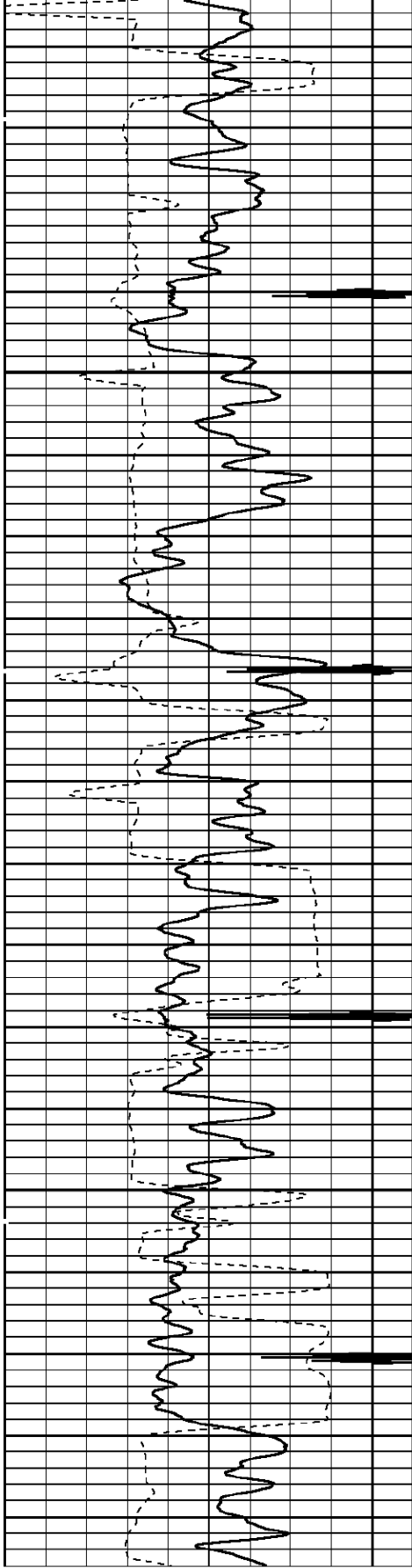
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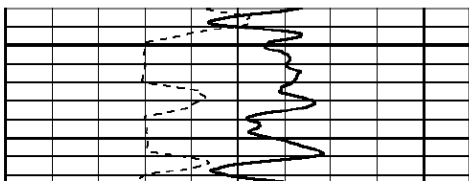
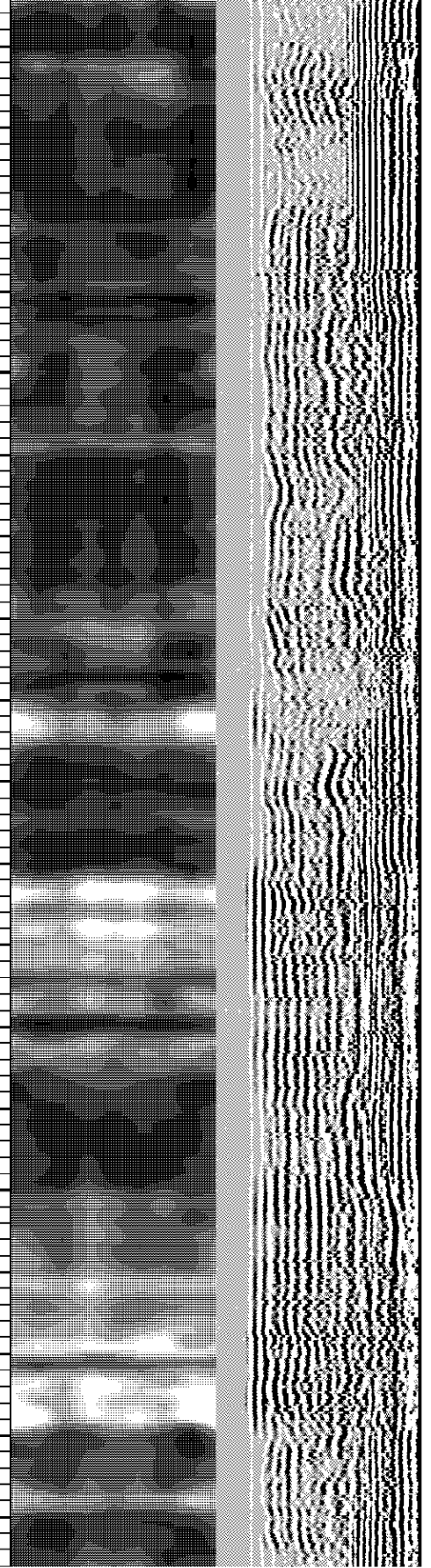
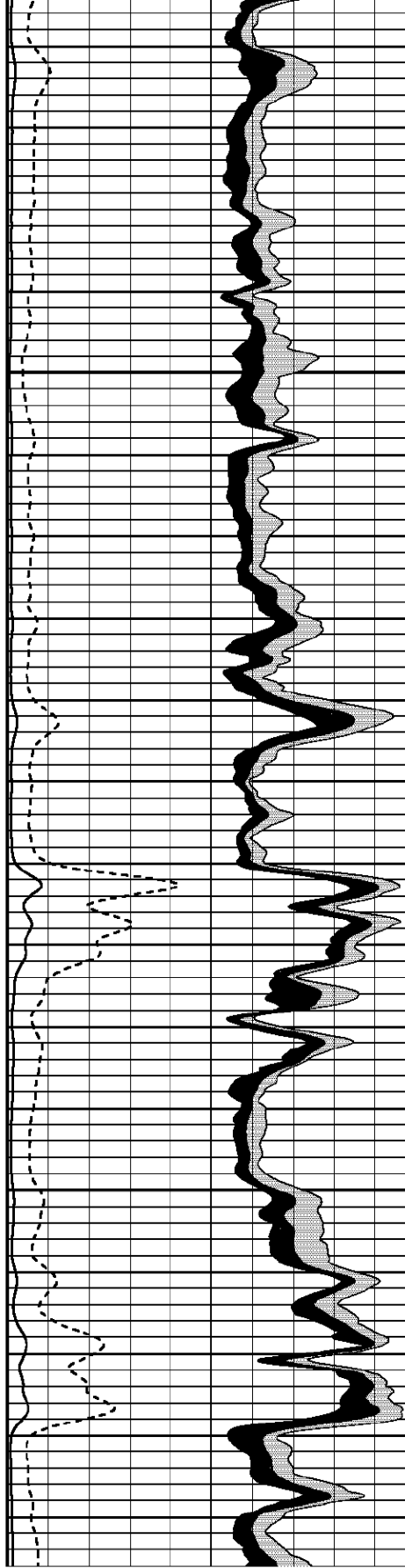


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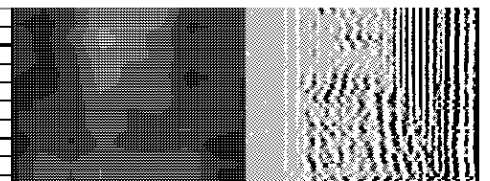
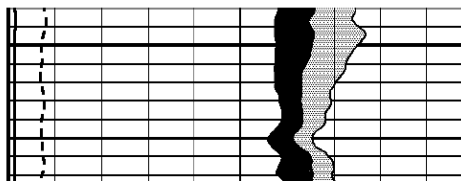


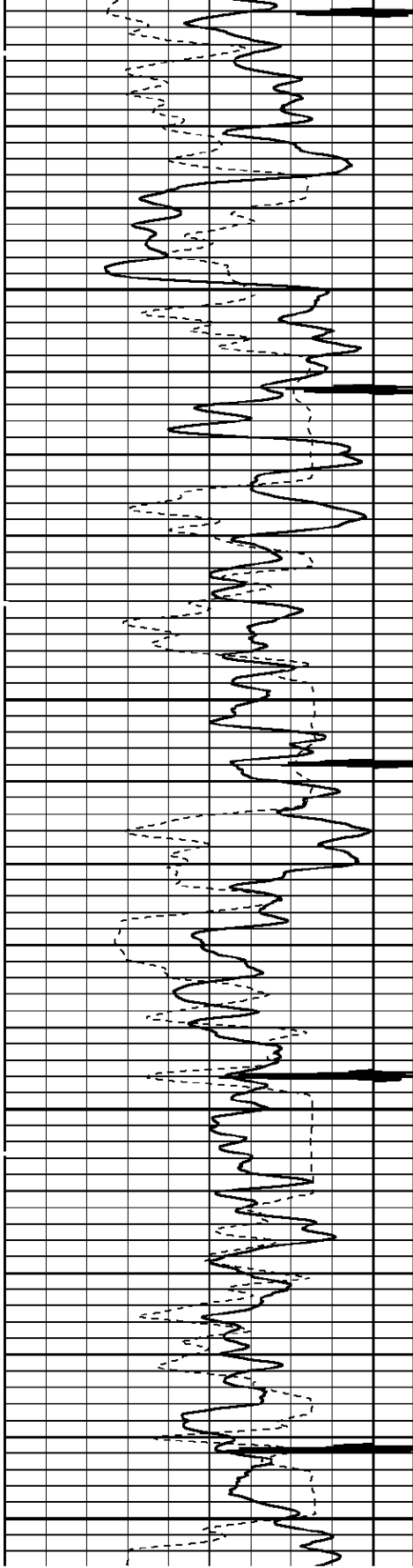


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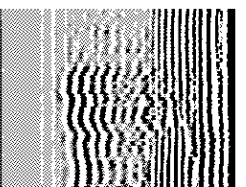
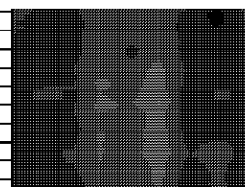
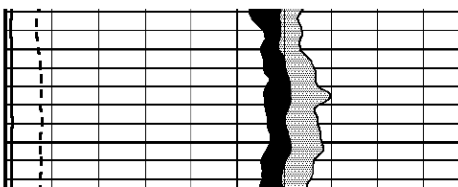
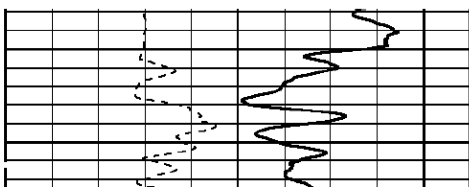
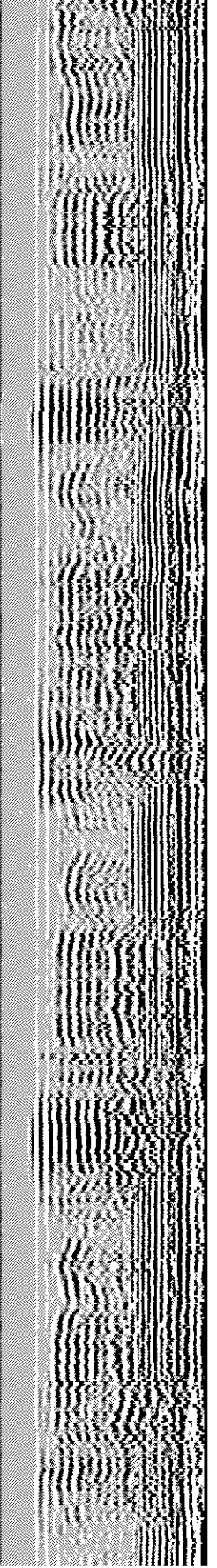
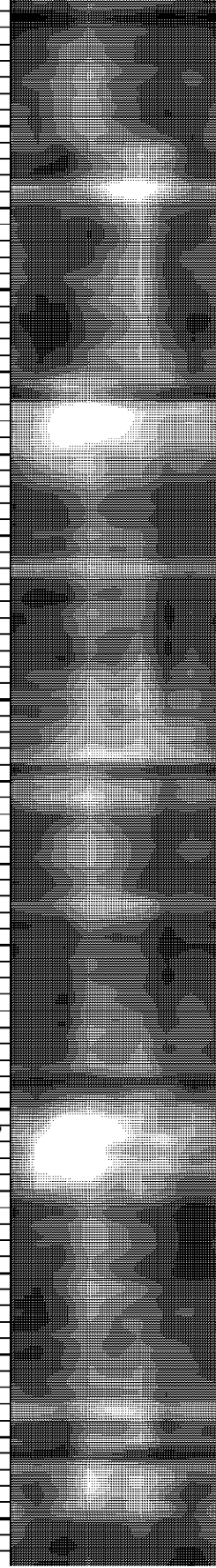
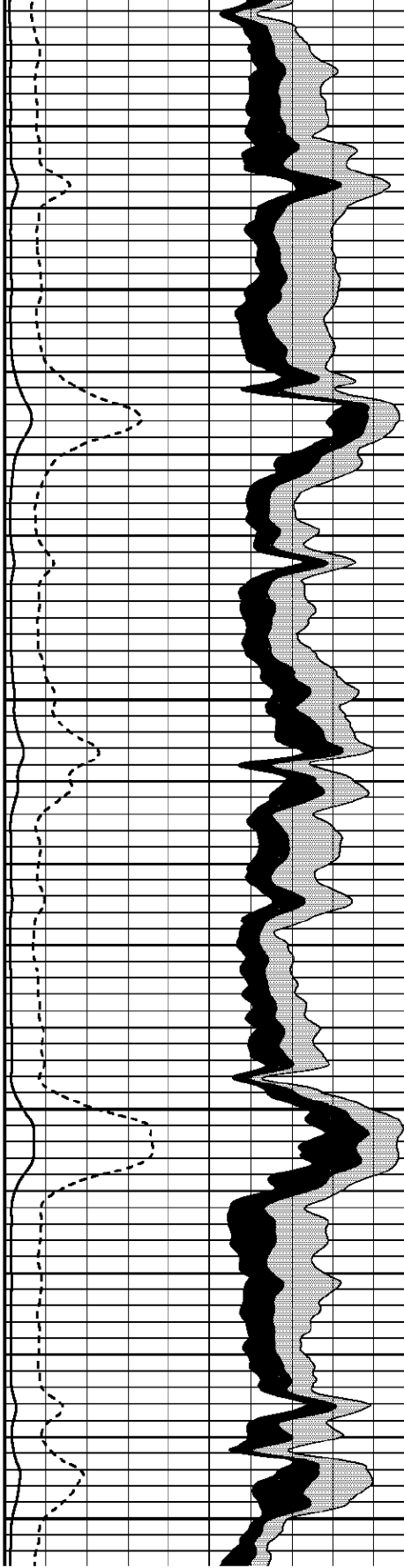
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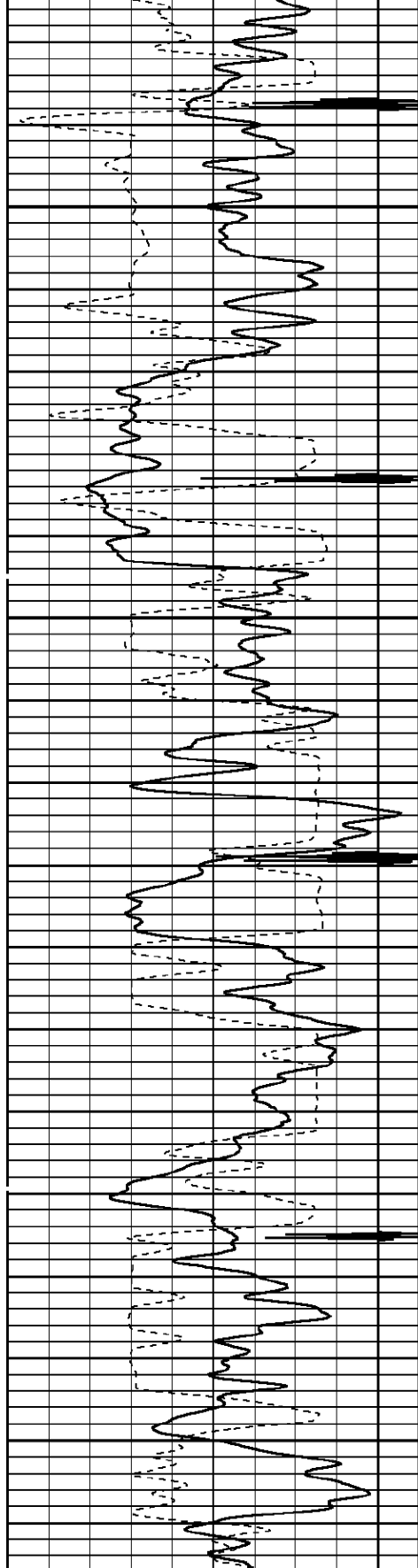




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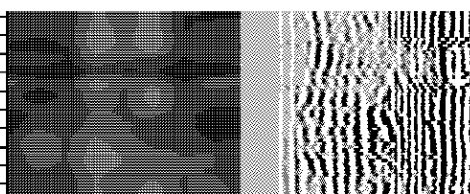
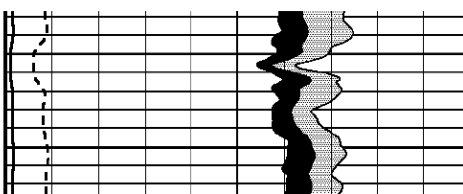
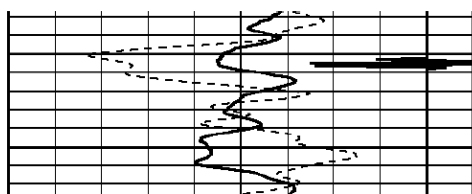
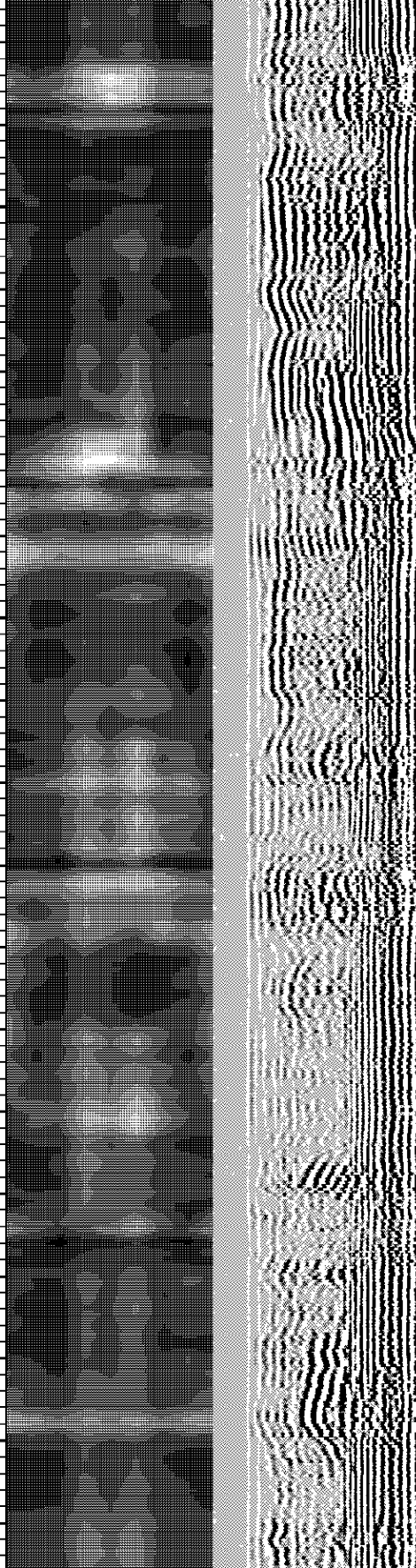
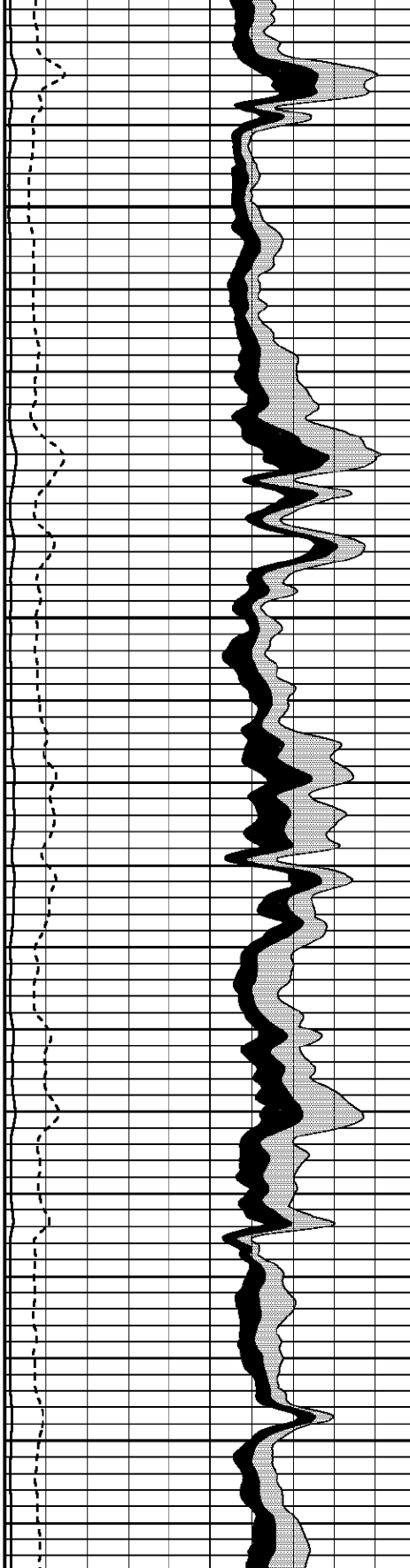
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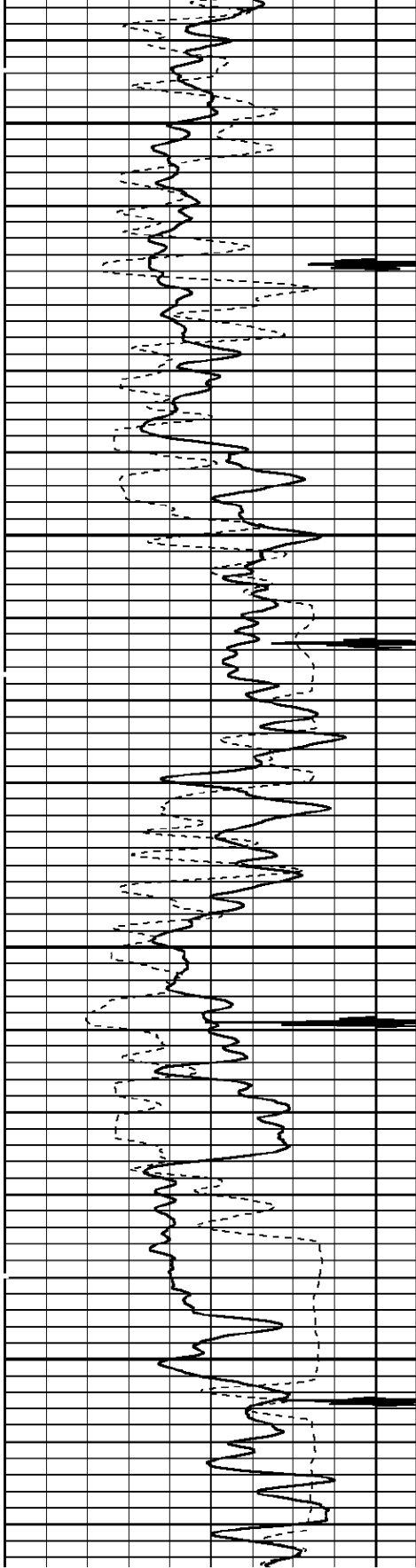




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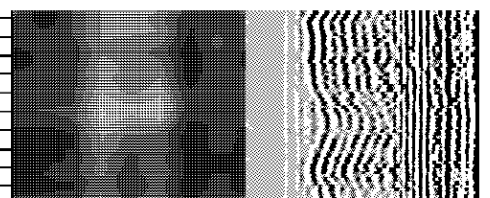
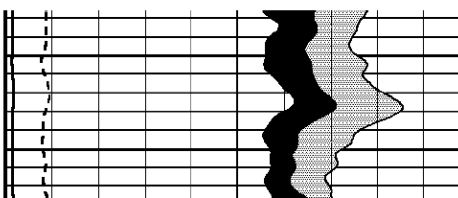
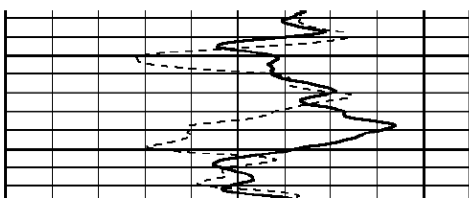
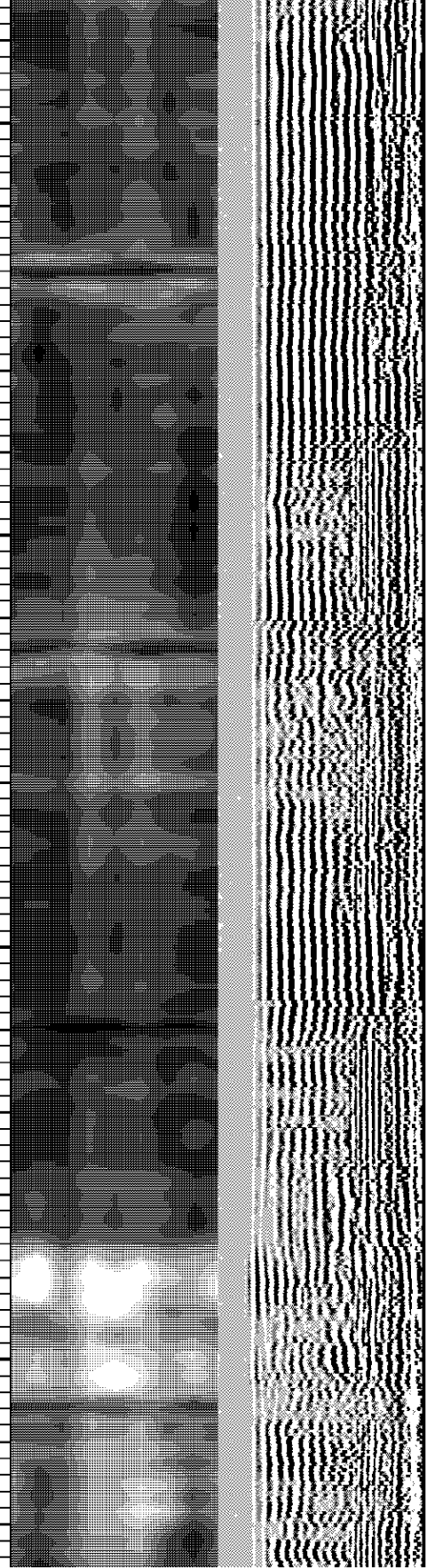
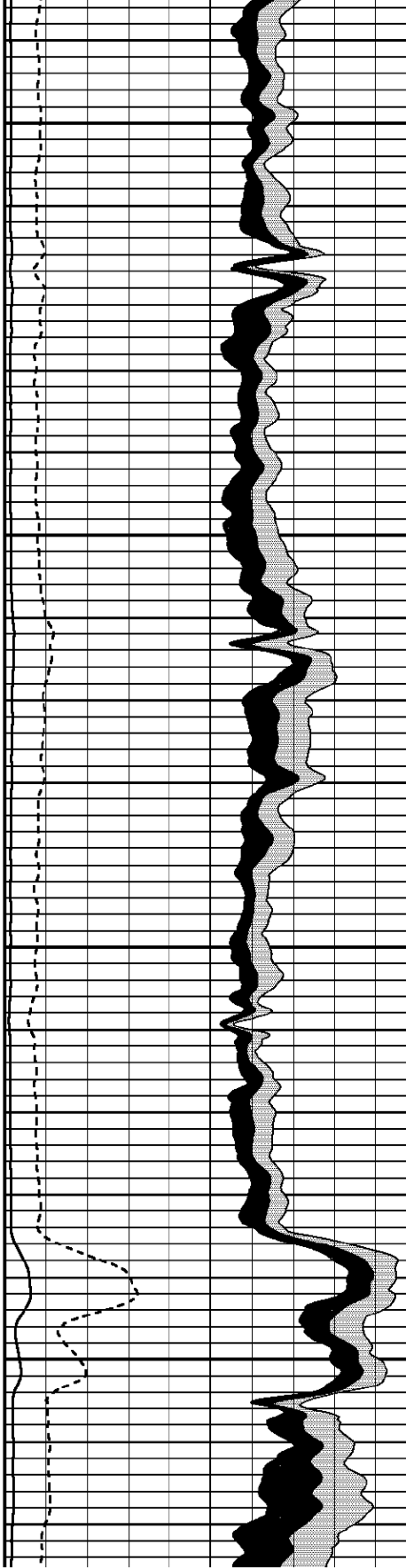
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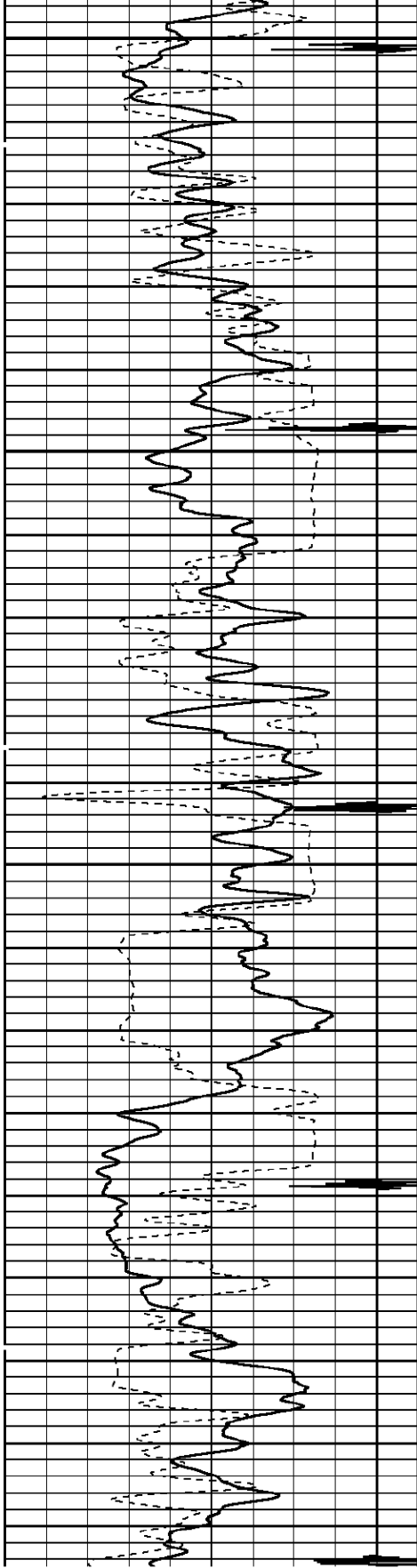




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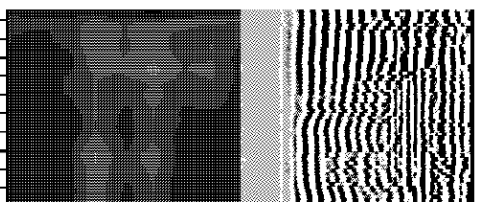
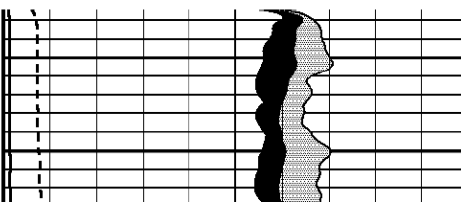
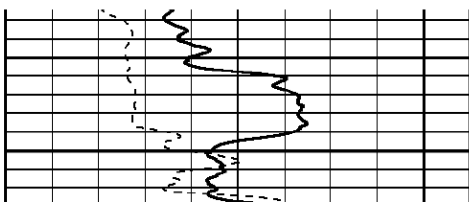
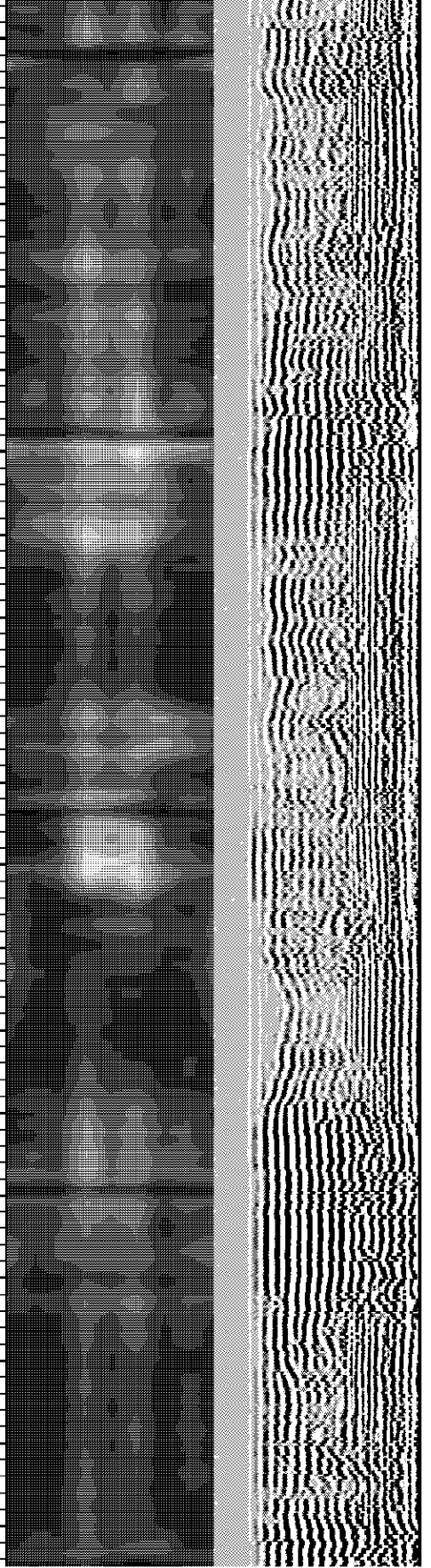
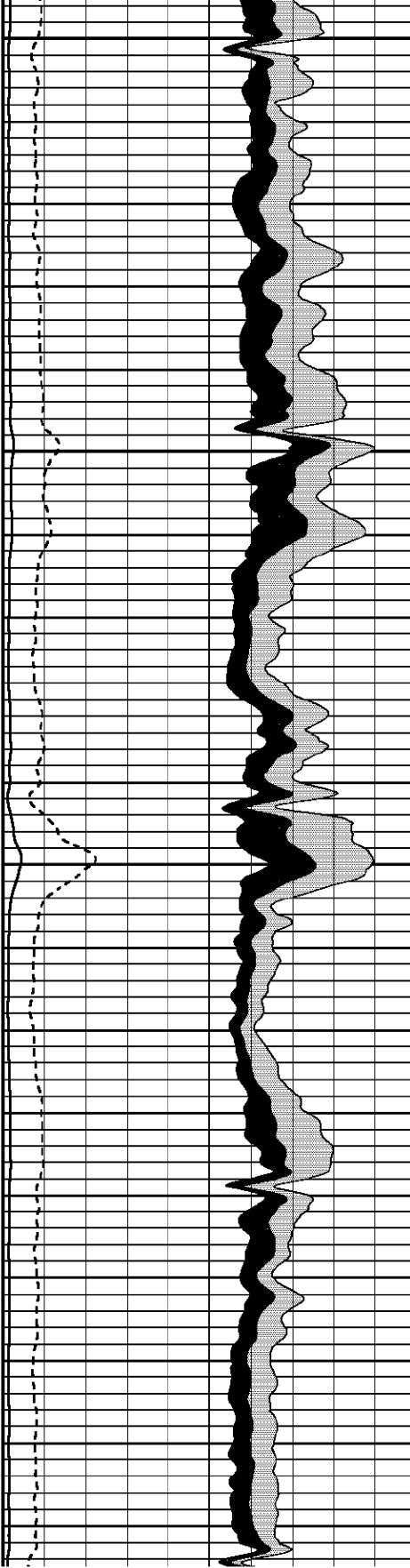
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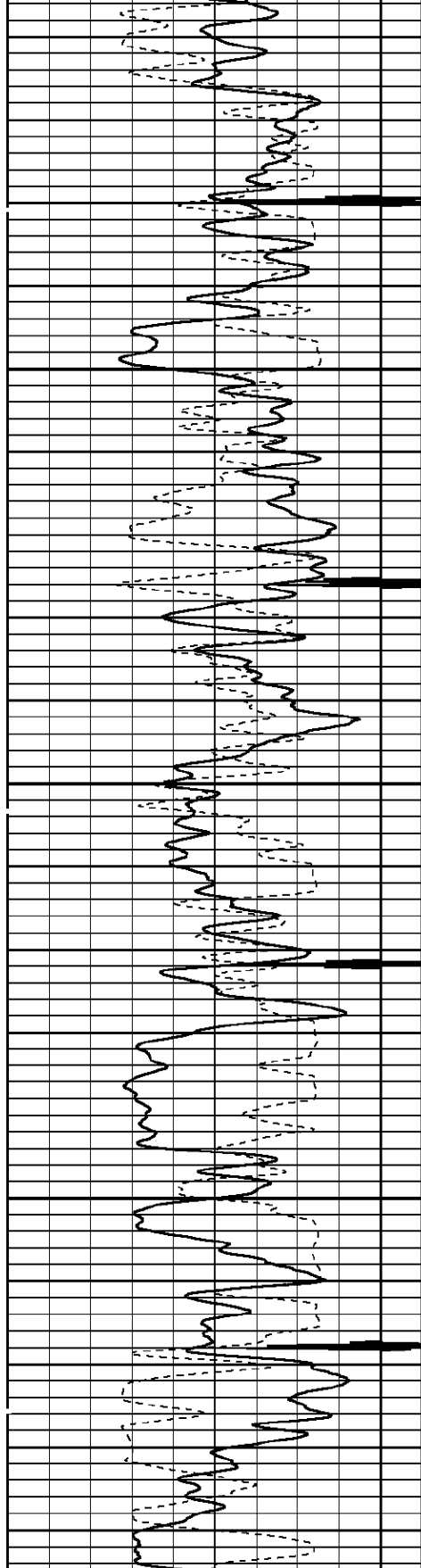




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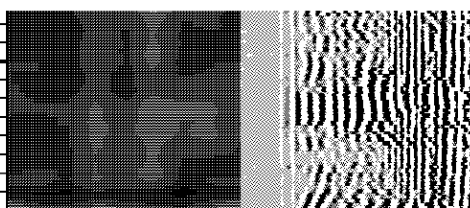
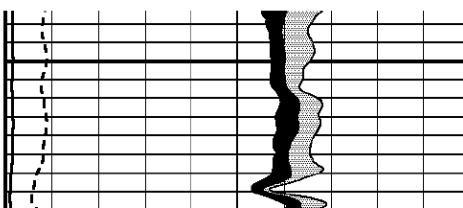
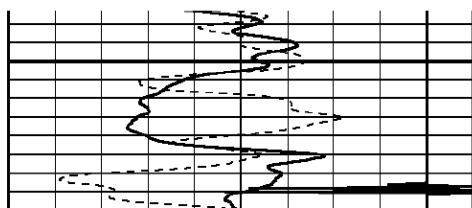
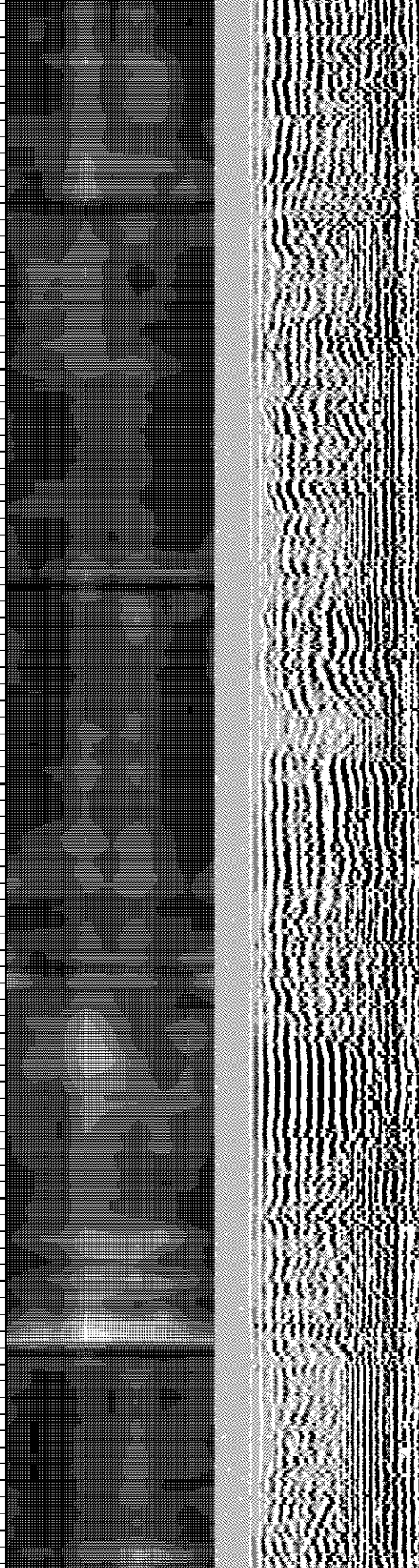
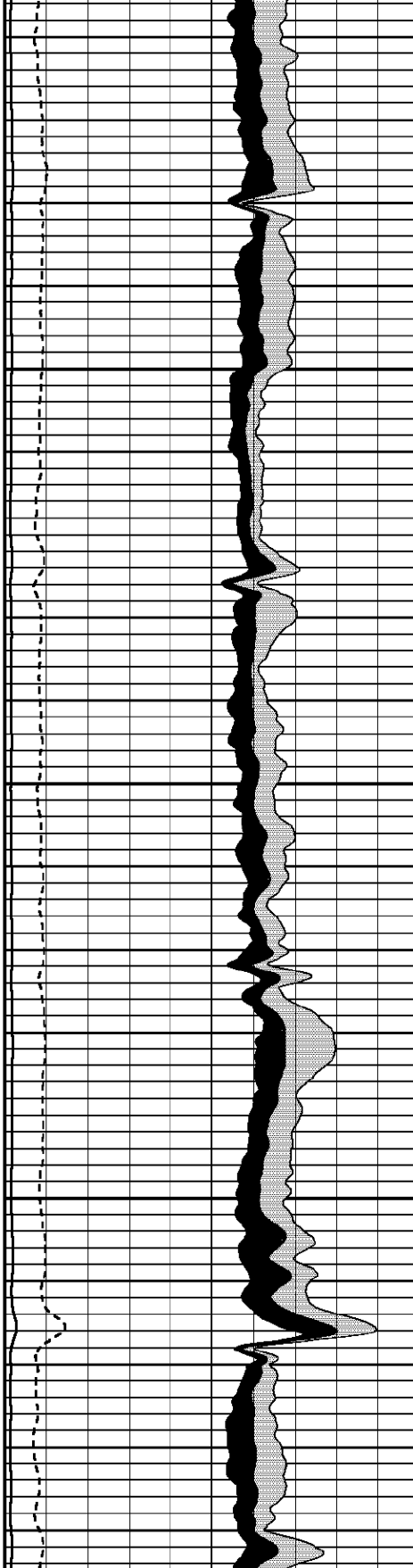
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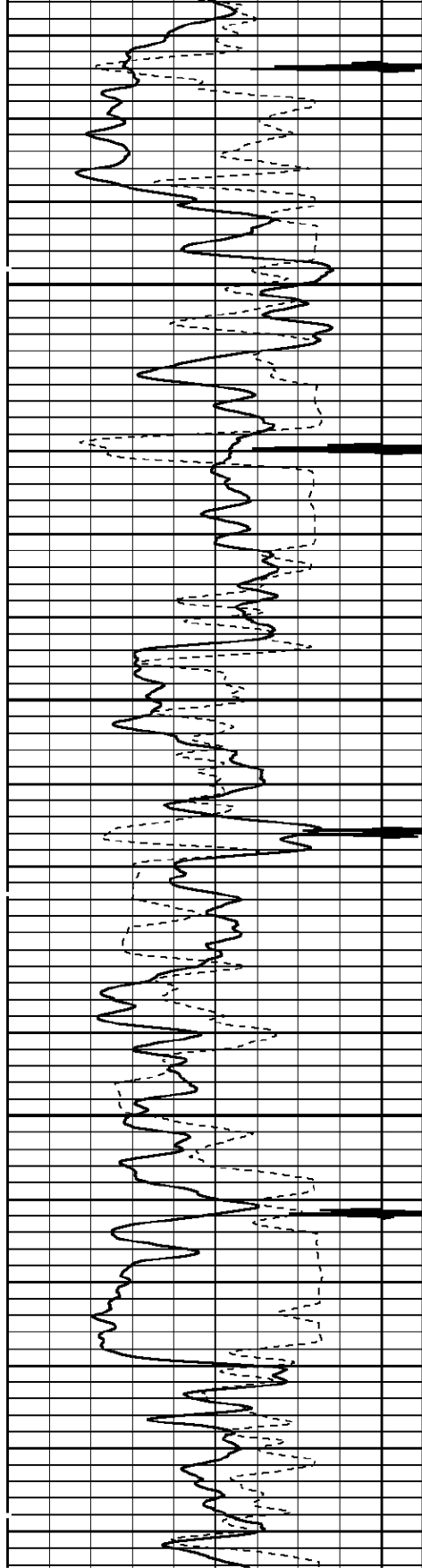




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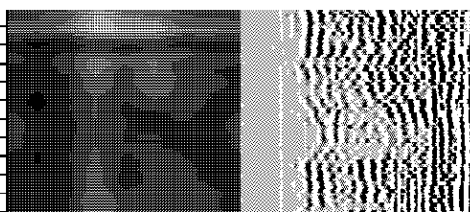
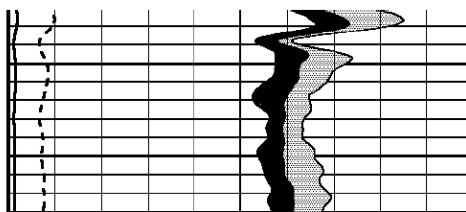
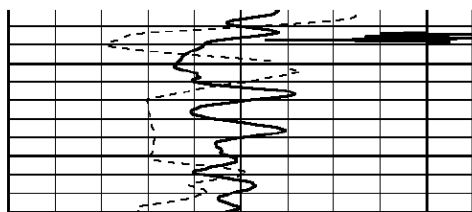
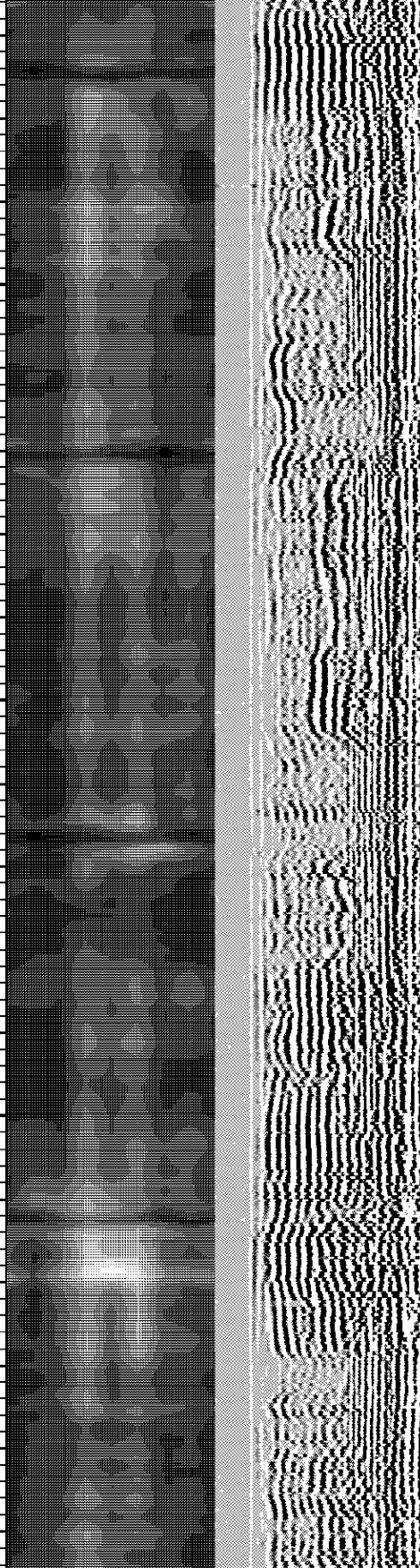
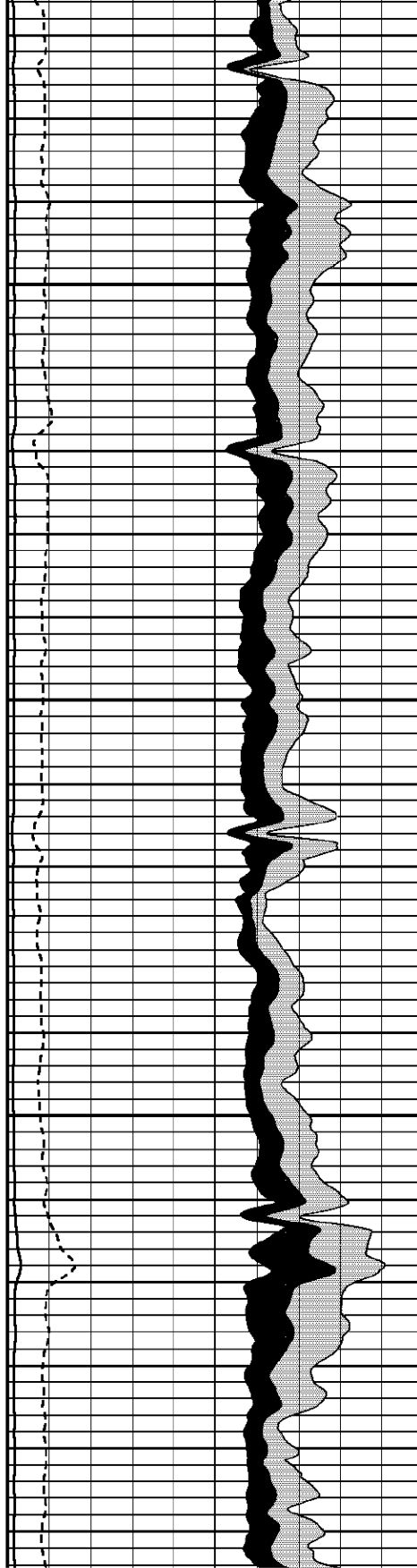
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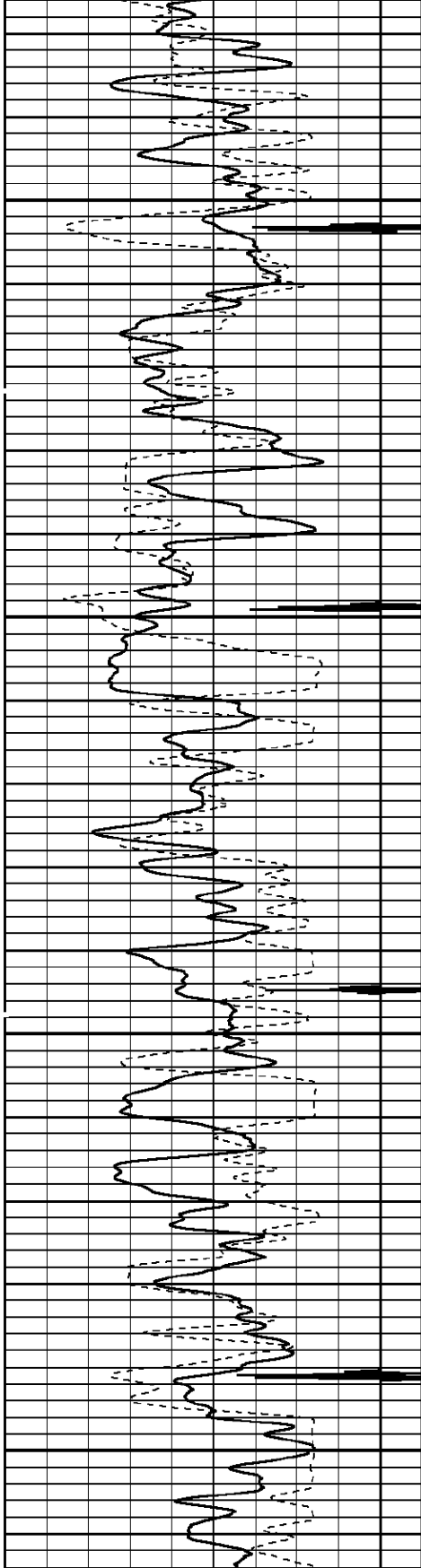




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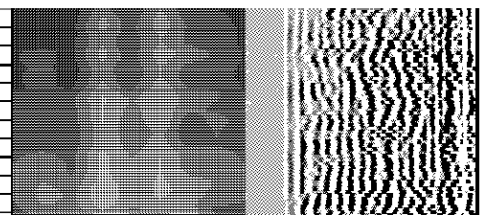
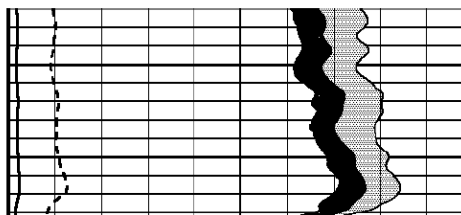
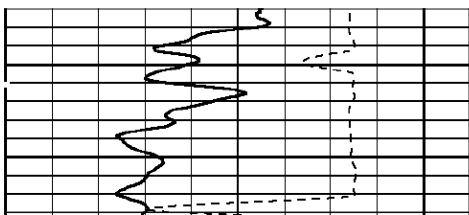
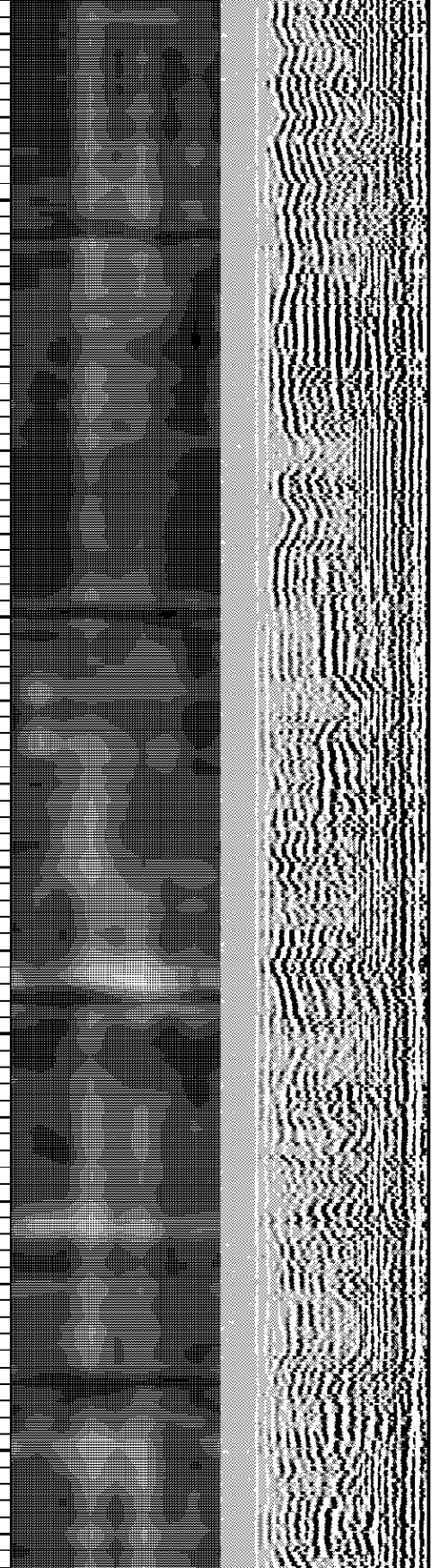
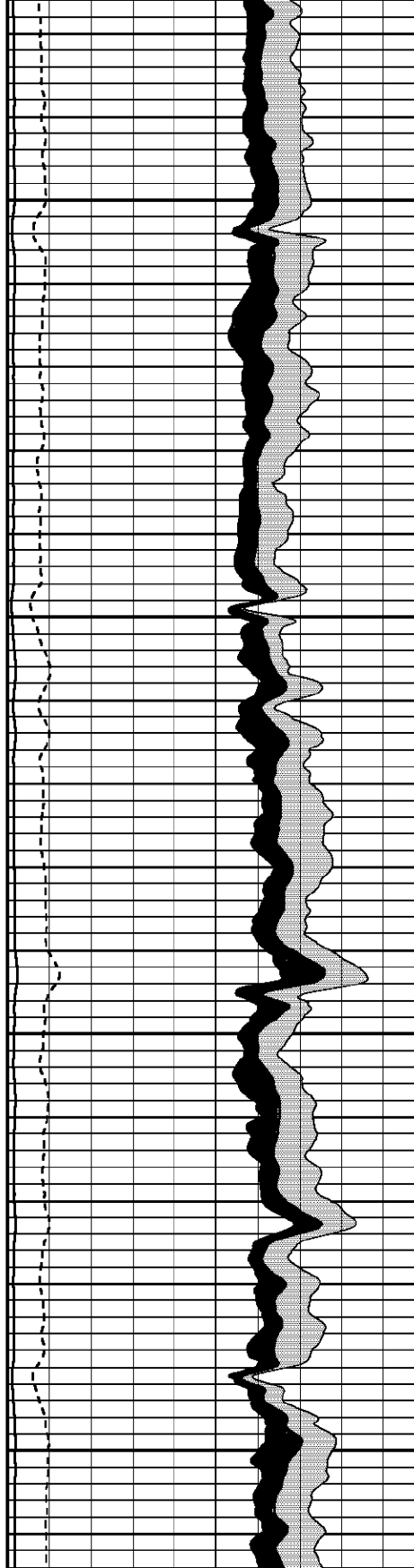
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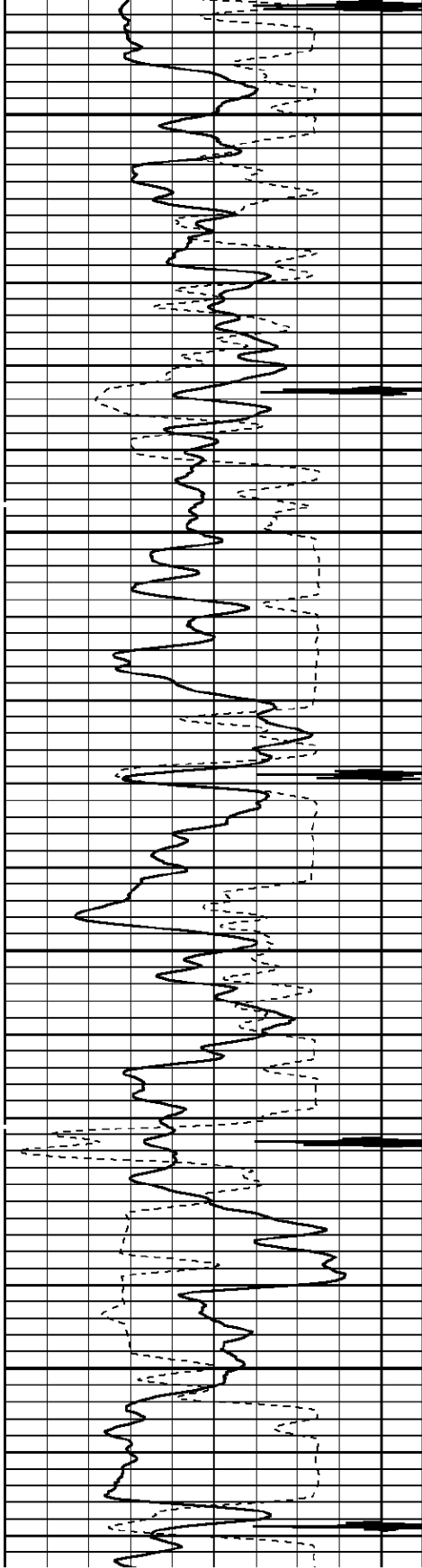




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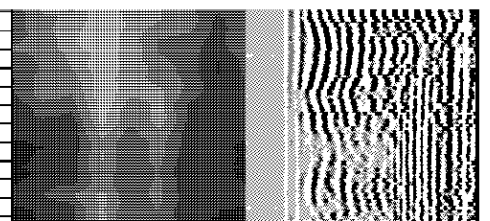
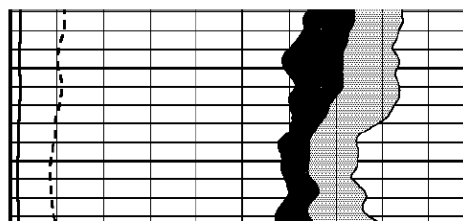
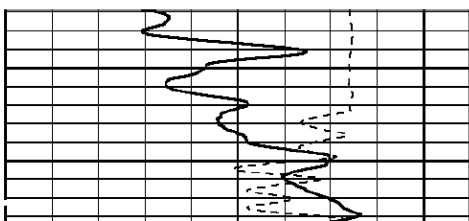
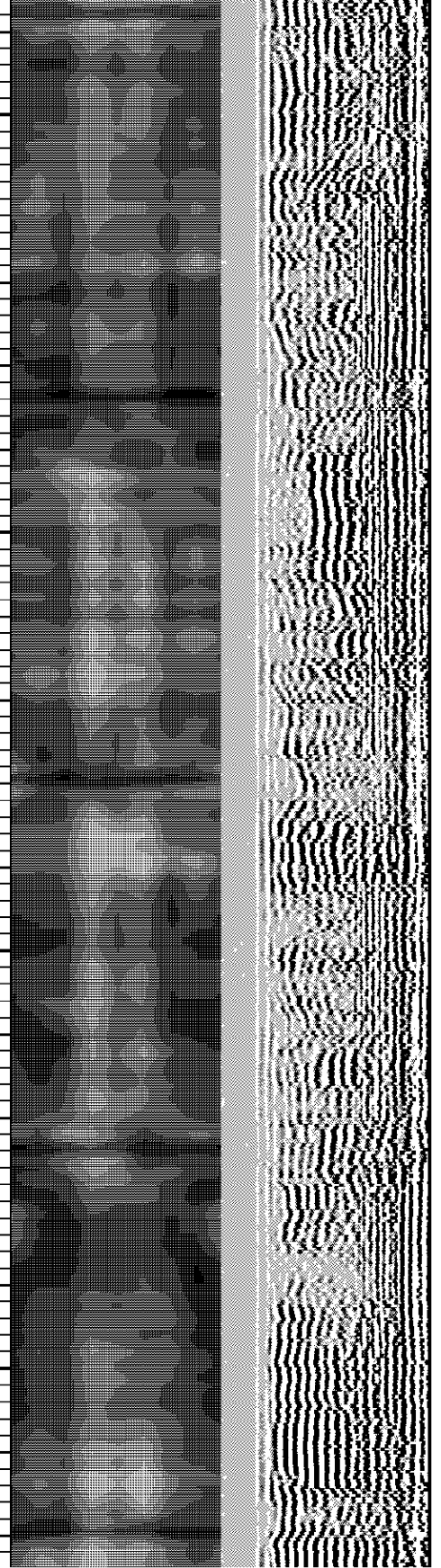
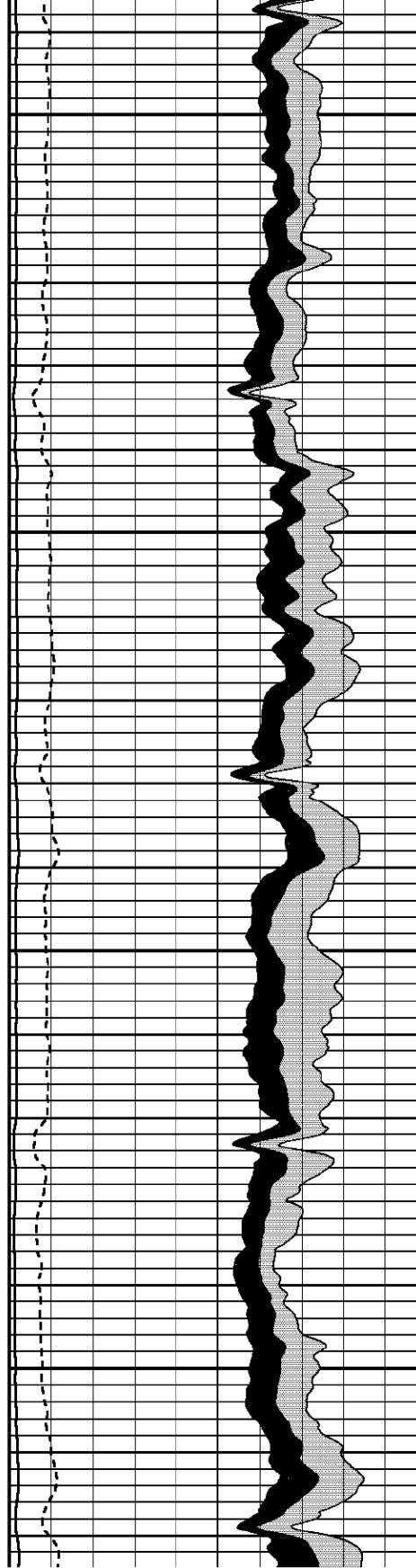
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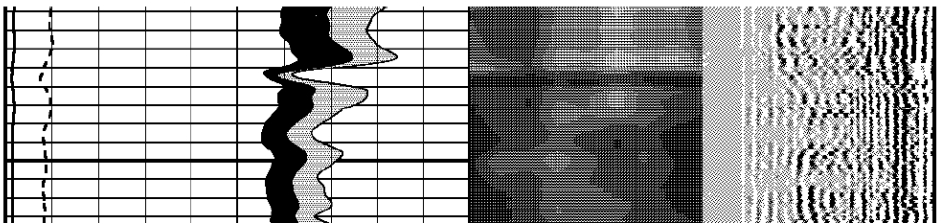
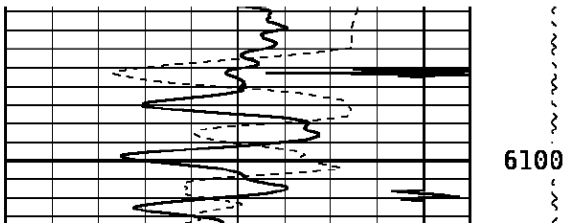
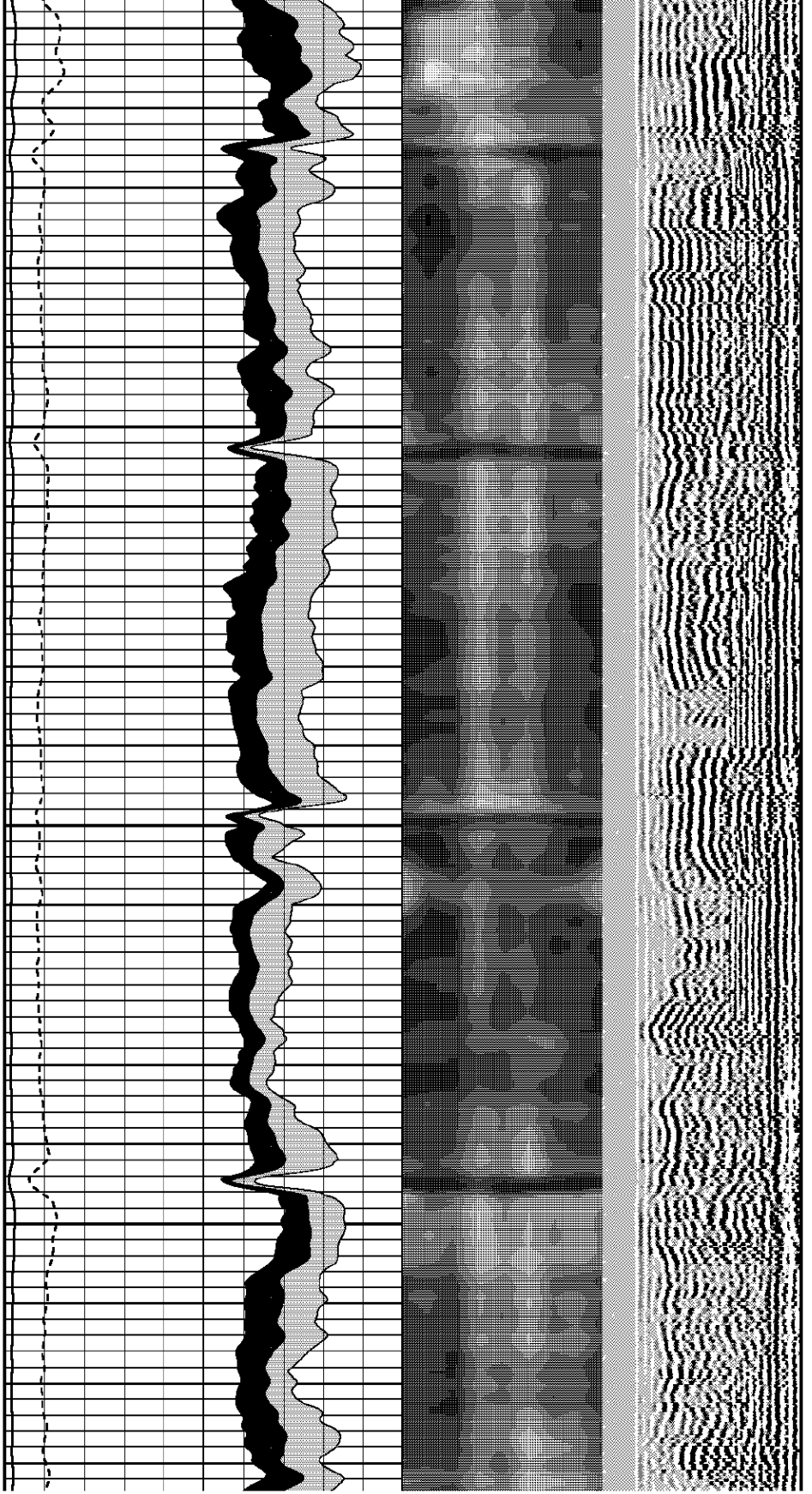
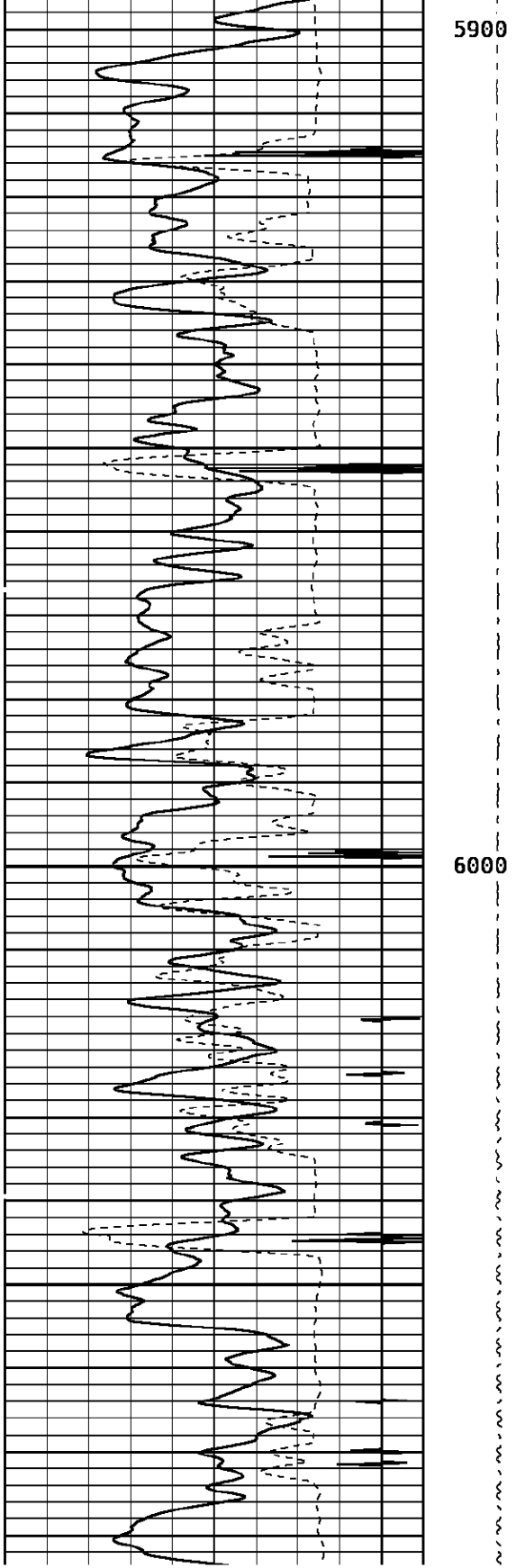


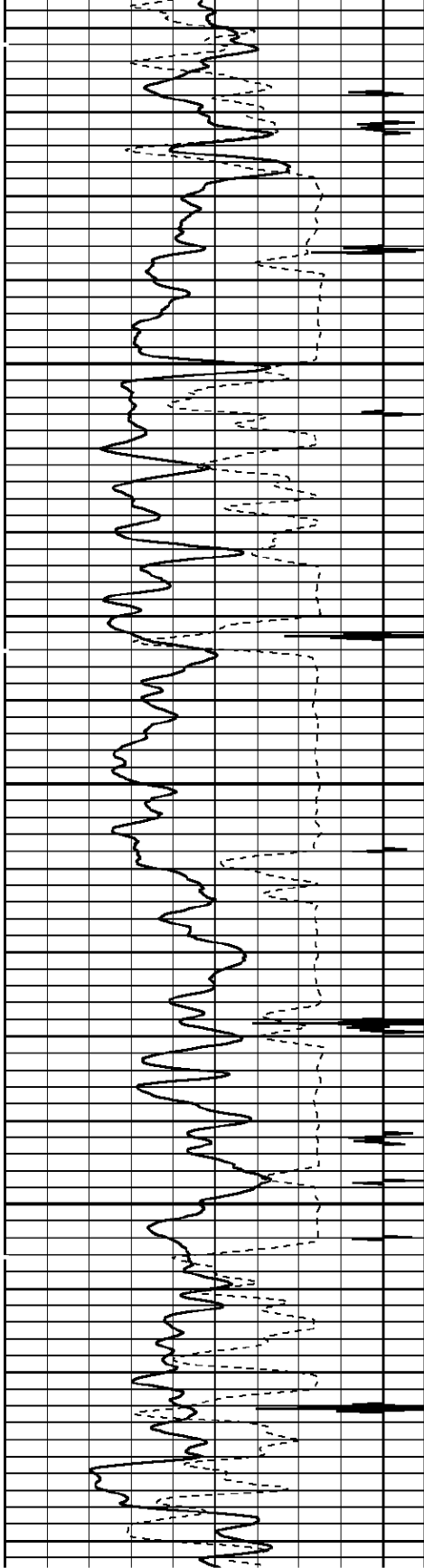


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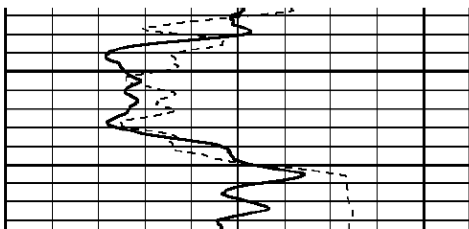
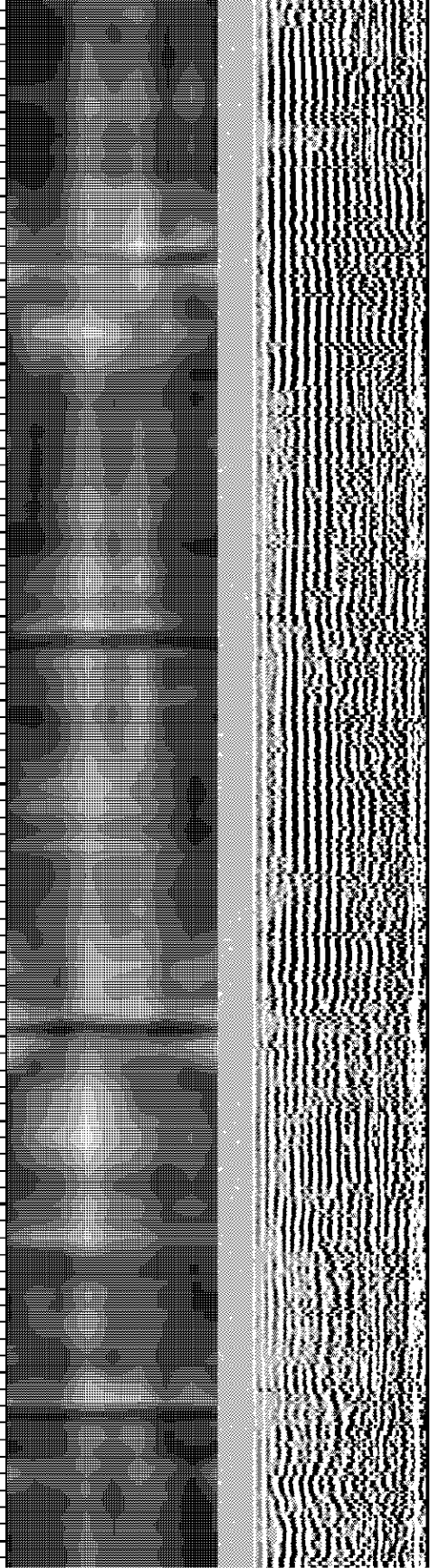
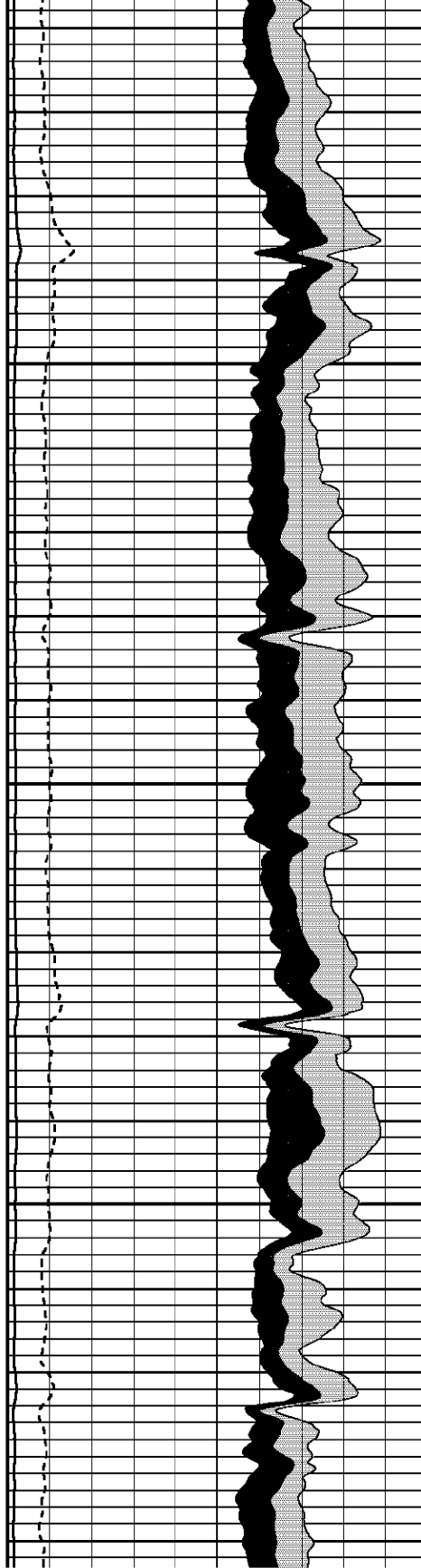
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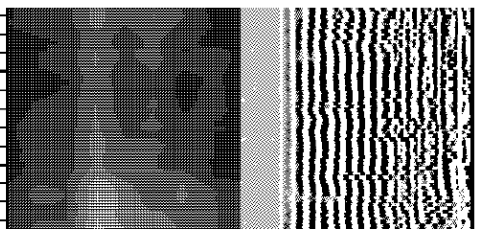
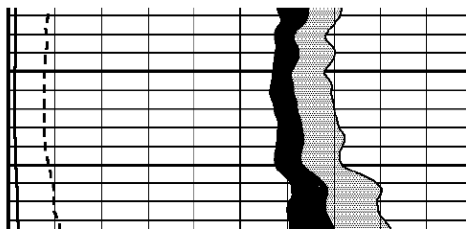


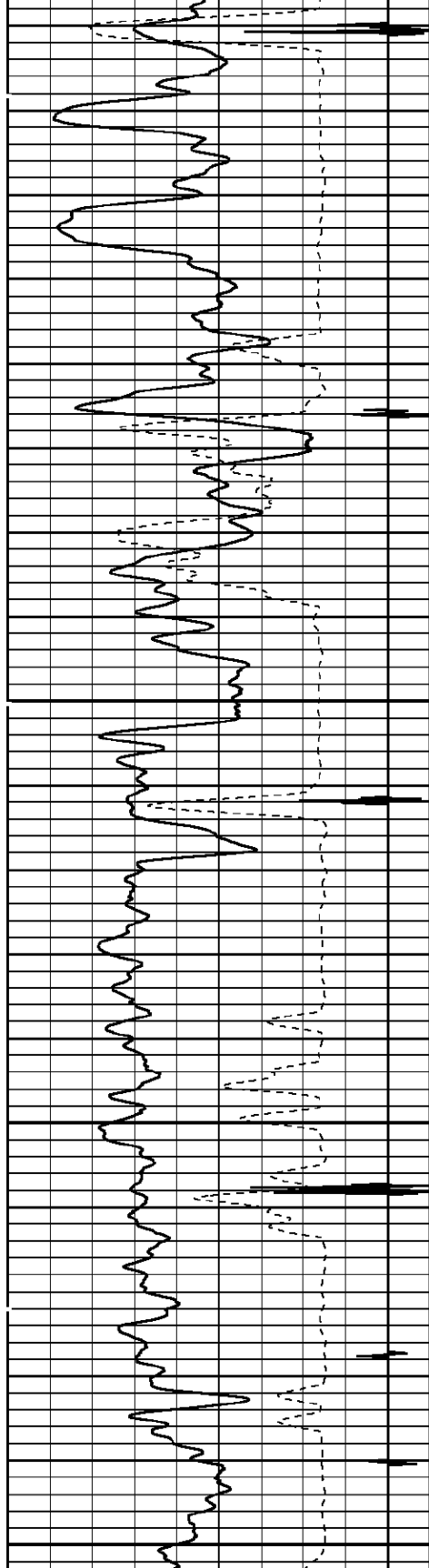


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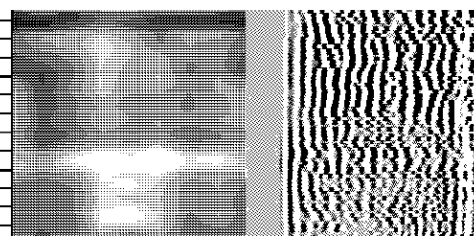
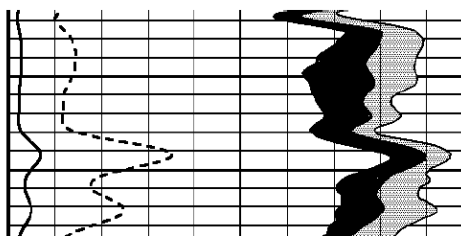
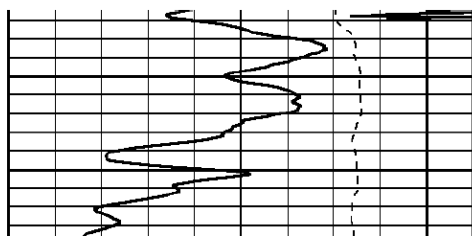
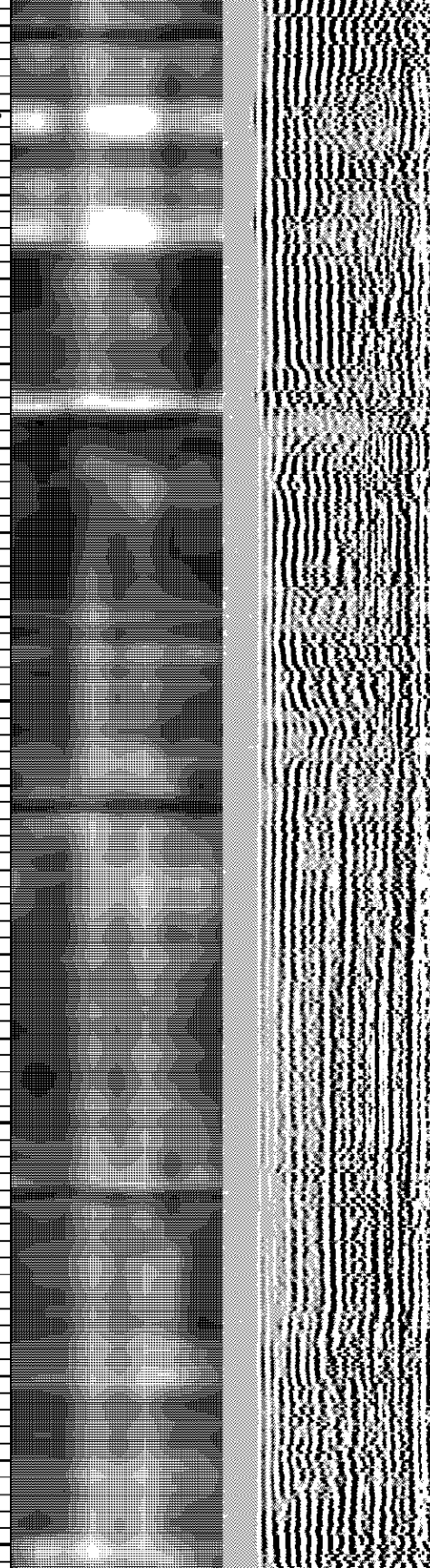
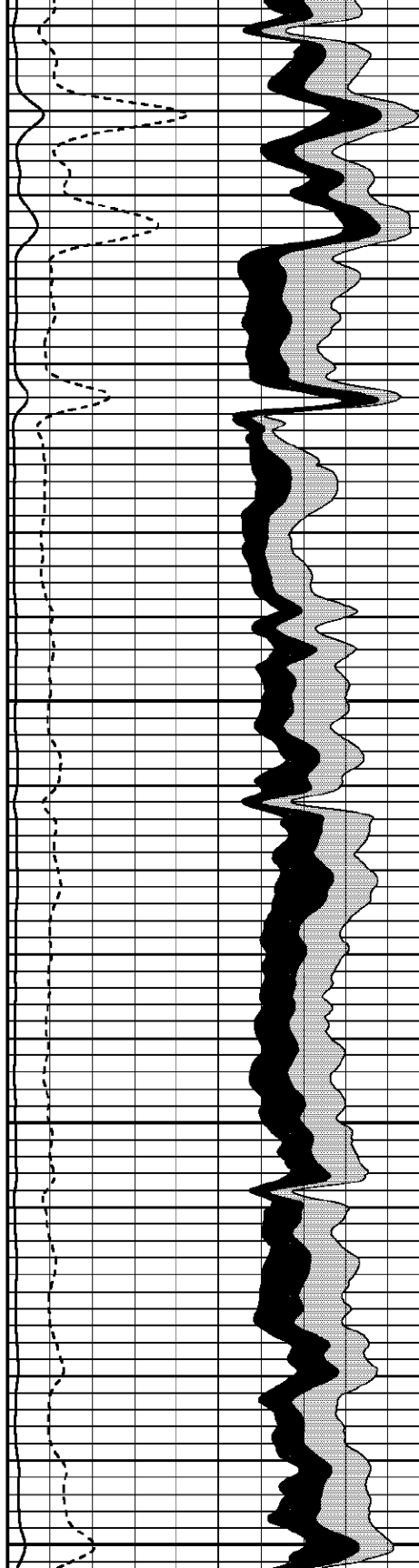
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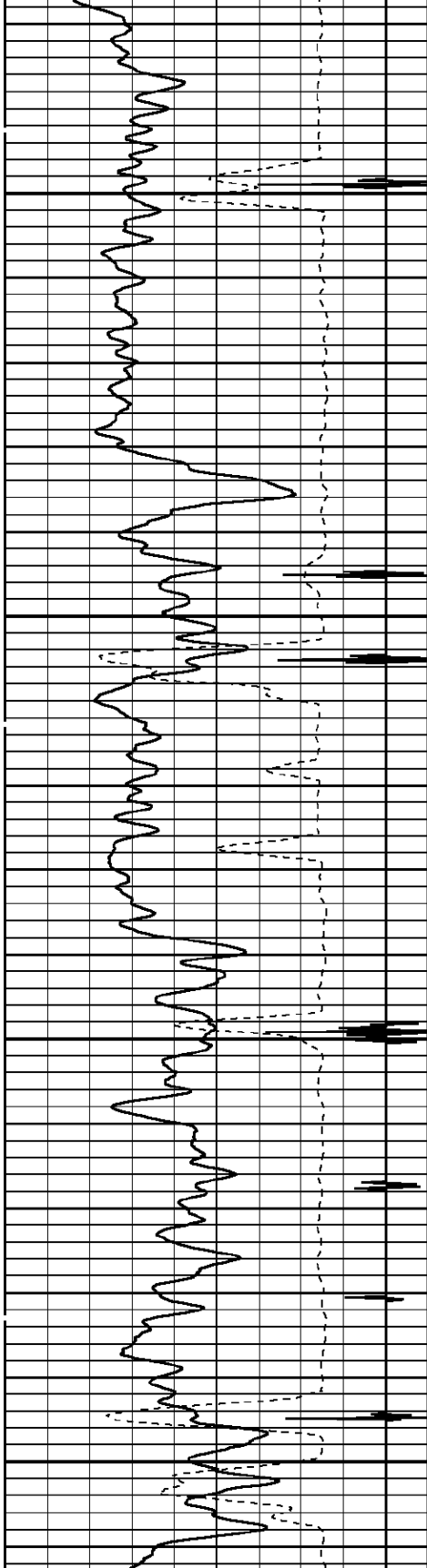




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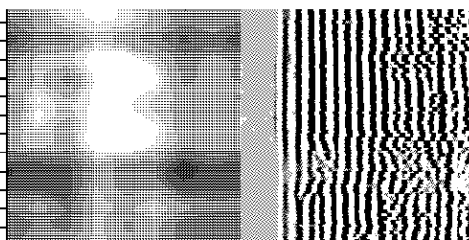
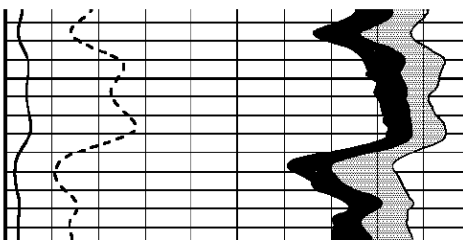
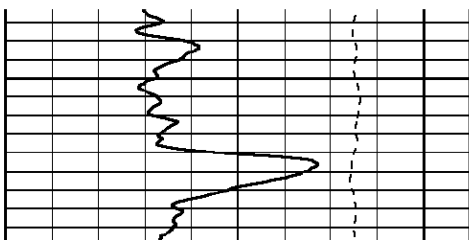
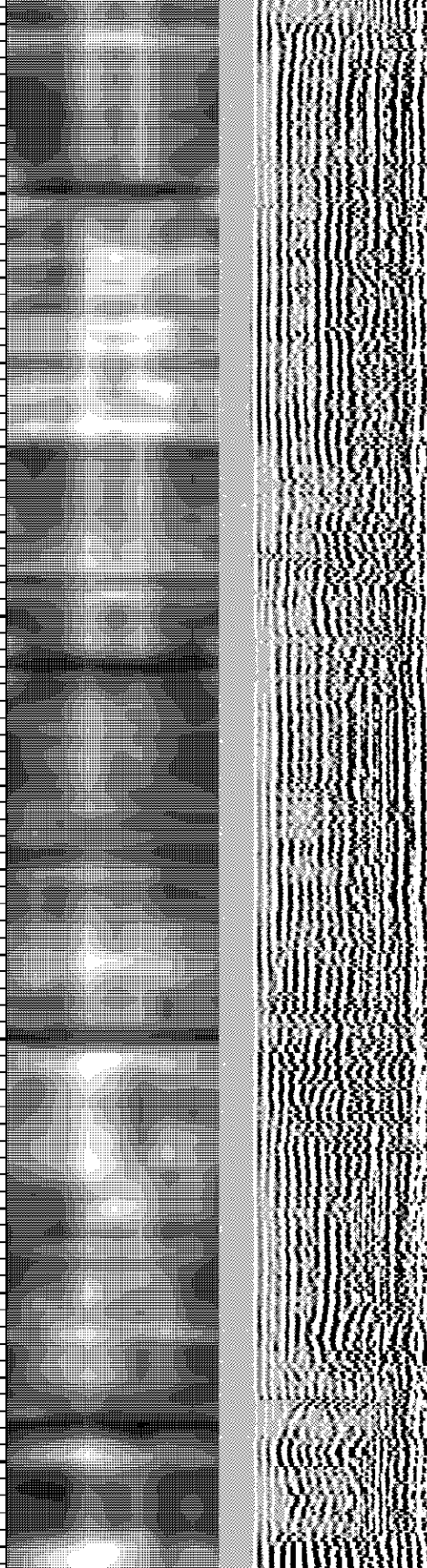
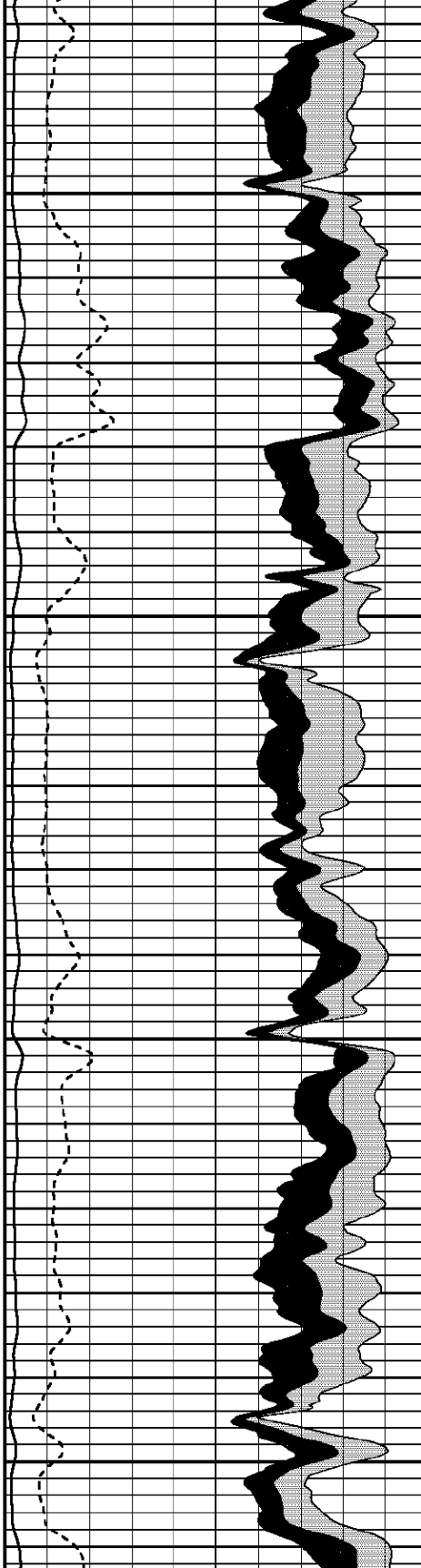
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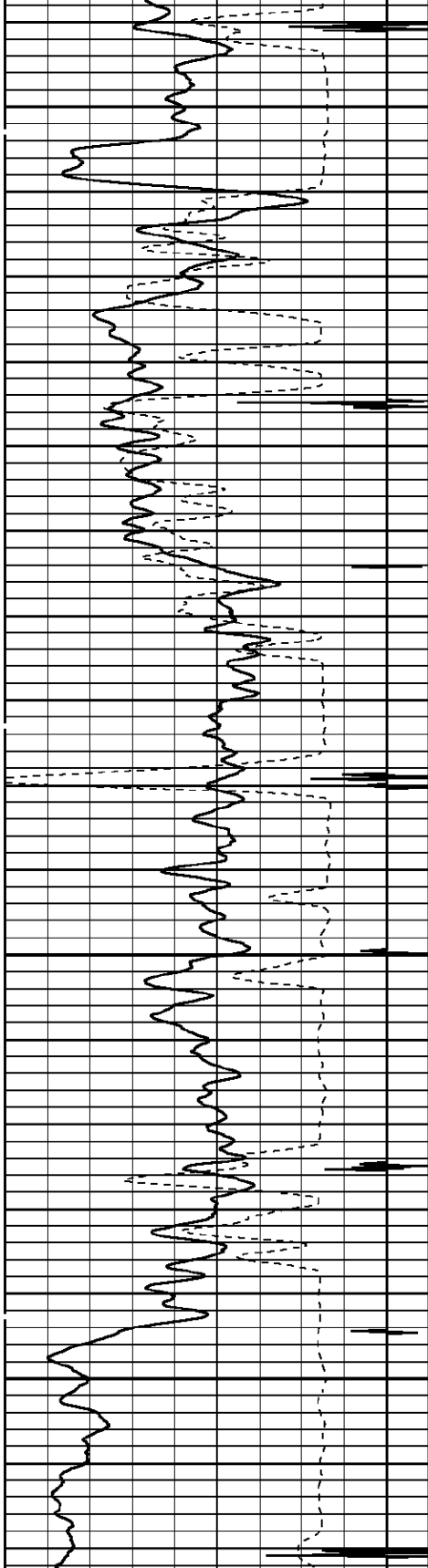




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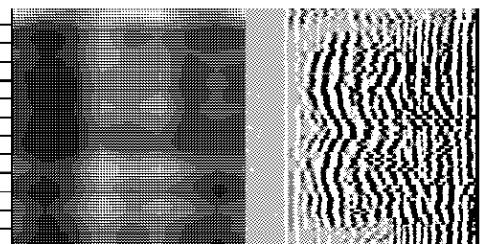
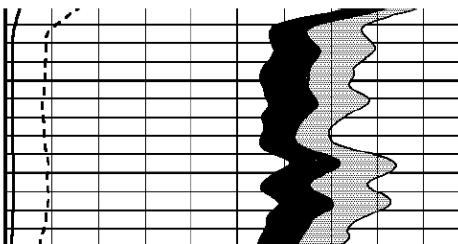
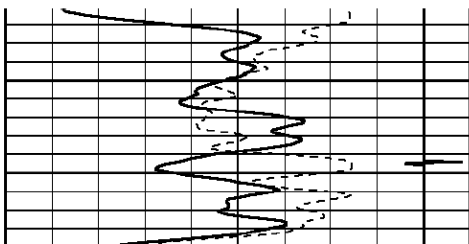
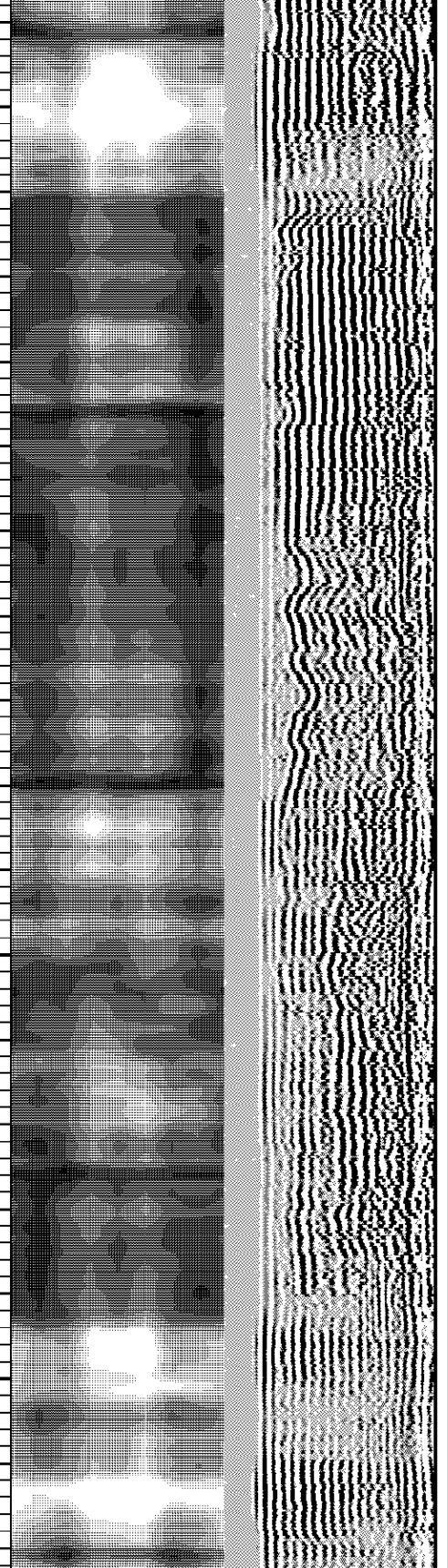
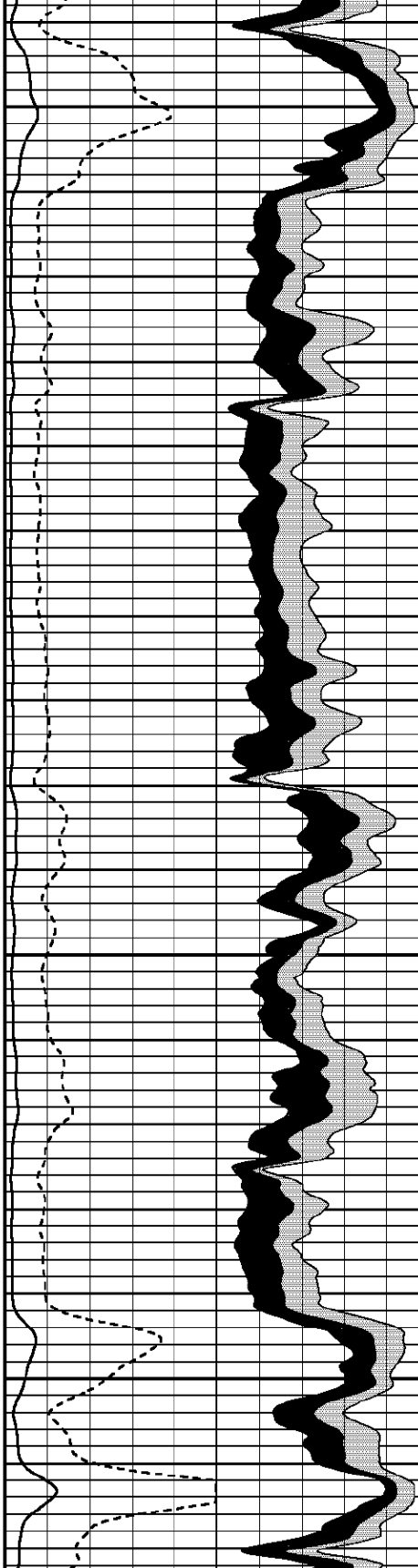
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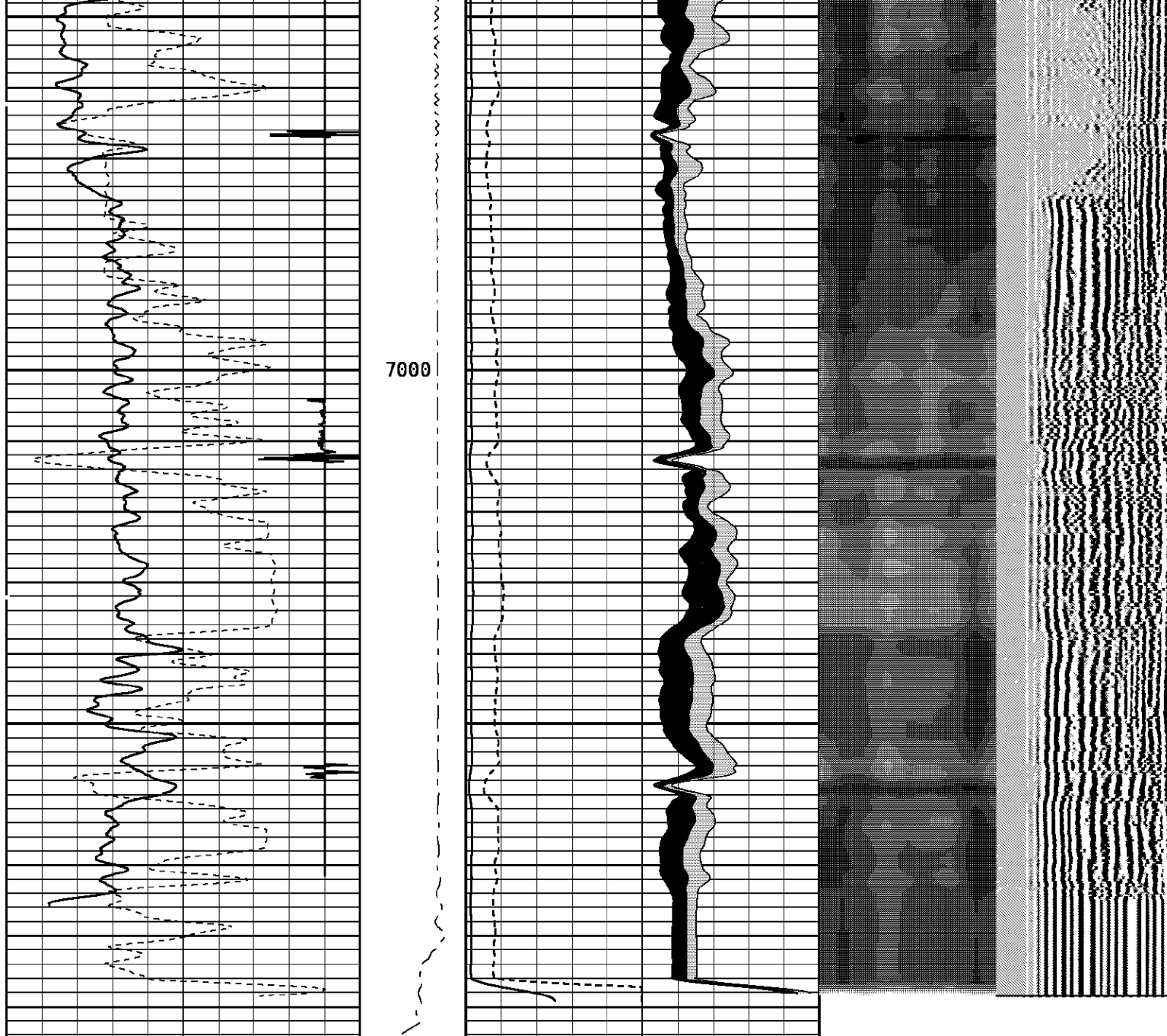




6800

6900





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	mv	20	0	mv 100	
CCL							MAX ENERGY		
-3600	Millivolts	400					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"

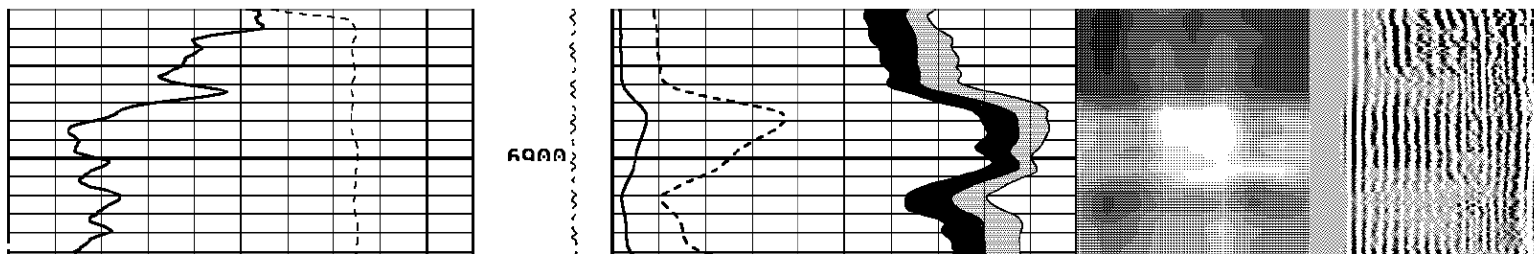
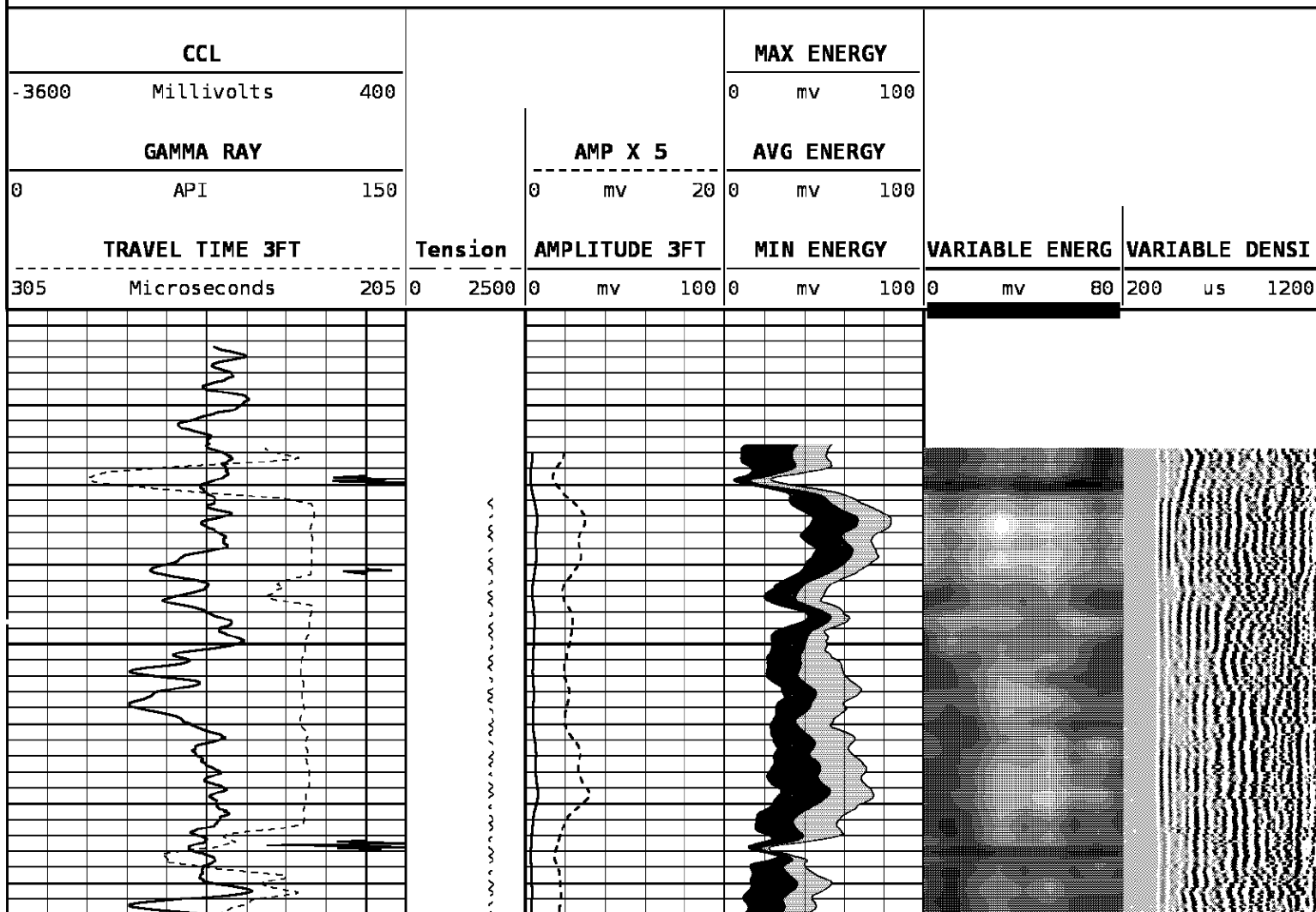
DEPTH SCALE: 5":100'

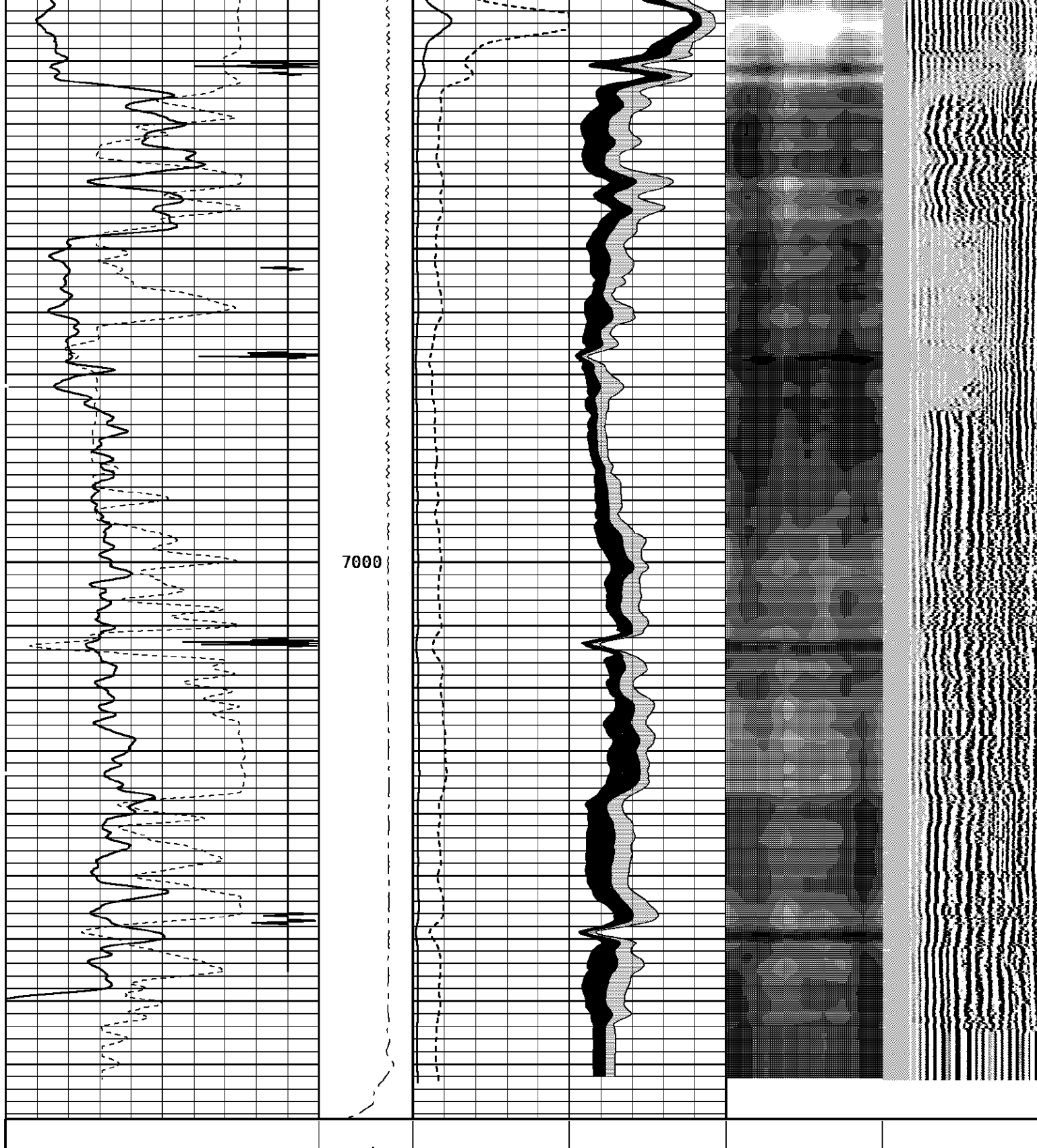
PROCESSED VERSION: 2012.07.18.162"

REPEAT PASS

103088681 CBLREPEAT

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



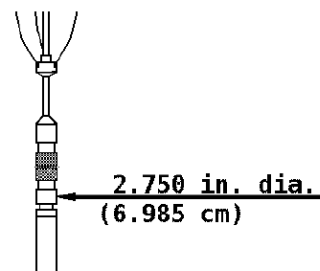


TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERGY	VARIABLE DENSI	
305	Microseconds	205	0 2500	0	mv 100	0	mv 100	0	mv 80	200 us 1200
GAMMA RAY				AMP X 5		AVG ENERGY				
0	API	150		0	mv 20	0	mv 100			
CCL						MAX ENERGY				

-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	1288.20	



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

SBT/CBL Tx 8.75 FT.

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

Tool Zero

COMPANY URSA OPERATING COMPANY

WELL McLIN B6

FIELD SILT

COUNTY GARFIELD

STATE COLORADO



Weatherford®