

Onyskiw, Denise

Doc # 1905631

Fax # 159301

**From:** King, Kevin  
**Sent:** Wednesday, February 03, 2010 2:27 PM  
**To:** Onyskiw, Denise  
**Subject:** FW: CBL for Kokopelli SWD 9-12D  
**Attachments:** Kokopelli SWD 9-12D Bond Log (for email).pdf

Kevin J. King  
NW Area Engineer  
Colorado Oil & Gas Conservation Commission  
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Rifle, CO 81650

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970.379.1035 cell

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**From:** Conger, Jeremy [mailto:Jeremy.Conger@Williams.com]  
**Sent:** Thursday, October 22, 2009 11:50 AM  
**To:** King, Kevin  
**Subject:** CBL for Kokopelli SWD 9-12D

Kevin,

Here is the CBL that goes along with the Request to Complete Sundry.

The data upload for this well is still not recognizing Williams as operator, so we are unable to upload any data through normal channels.

Let me know if you need anything else,

Jeremy

**Jeremy Conger**  
Williams Production RMT Co.  
Staff Petroleum Engineer -  
Piceance Valley  
303-606-4285 (Office)  
303-888-4515 (Mobile)



# RADIAL ANALYSIS BOND LOG

**Baker Atlas**

File No: 1387	Company: WILLIAMS PRODUCTION COMPANY
API No: 06-046-18532	Well: KOKOPPELLI SMD 9-12D
	Field: JOLLEY
	County: GARFIELD
	State: COLORADO
6 6S 81W JOLLEY B-1 PAD	Location: SHA: NOT PROVIDED BLL: NOT PROVIDED
	SEC 8 TWP 8S RGE 9W
Permanent Datum Log Measured From Drill Measured From	GL: _____ Elevation: 8555 ft KB: _____ 20 ft Above P. D. KELLY BUSHING
	Other Services: TEMP: _____ RPA: _____
Date: 28/SEP/08	Run: ONE
Service Order: 576485	Depth Driller: 8305 ft
Depth Logger: 8305 ft	Bottom Logged Interval: 8248 ft
Top Logged Interval: SURFACE	Time Started: 14:00
Time Finished: 18:00	Operator Rig Time: 4 hrs
Type of Fluid in Hole: WATER	Fluid Density: N/A
Salinity: N/A	Fluid Level: FULL
Logged Cement Top: N/A	Wellhead Pressure: 0 psi
Maximum Hole Deviation: N/A	Nominal Logging Speed: 45 fpm
Maximum Recorded Temperature: 184 degf	Reference Log: SCHLUMBERGER ARRAY INDUCTION LOG
Equipment No.: 28/AUG/08	Recorded By: 4214
Location: VERNAL, UT	Witnessed By: J. J. ESTER
	VERNAL, UT
	VERNAL, UT

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Borehole Record		
Bit Size	From	To
8.75 in	SURFACE	8305 ft

Casing Record				
Size	Weight	Grade	From	To
5.5 in	15.5 lbm/ft	P-110	SURFACE	8305 ft

## Remarks

LOG WAS TIED INTO SCHLUMBERGER ARRAY INDUCTION LOG.  
WELL WAS LOGGED WITH 0 psi.  
SHORT JOINTS @ 4060'-4082' AND 6062'-6084'  
BHT=184°F  
SOFTWARE ISSUES CAUSED PROBLEMS WITH THE CEMENT MAP.  
CEMENT MAP WAS NOT PRESENTED DUE TO THIS ISSUE.



## Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1428XA	10417451	CENTRALIZED
1	1	GR/OCL/TEL	2459XA	10218503	CENTRALIZED

## MAIN SECTION PRIMARY PRESENTATION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	332.187	usec	20.563	8264.000
RAL	Amp Gate Start Near	215.678	usec	20.563	8264.000
RAL	Amp Gate Start Radial	215.678	usec	20.563	8264.000
RAL	Amp Gate Width Far	25.000	usec	20.563	8264.000
RAL	Amp Gate Width Near	25.000	usec	20.563	8264.000
RAL	Amp Gate Width Radial	25.000	usec	20.563	8264.000
RAL	casing od	6.500	inches	20.563	8264.000
RAL	casing wt	15.500	lbm/ft	20.563	8264.000
RAL	FB Start Far	307.187	usec	20.563	8264.000
RAL	FB Start Near	190.678	usec	20.563	8264.000
RAL	FB Start Radial	190.678	usec	20.563	8264.000
RAL	FB Thresh Far	10.000	mv	20.563	8264.000
RAL	FB Thresh Near	4.000	mv	20.563	8264.000
RAL	FB Thresh Radial	4.000	mv	20.563	8264.000
RAL	Fluid Travel Time	200.000	usec/ft	20.563	8264.000

### DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1428XA	-15.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-14.360	AFAR	SIG	TT5			

1426XA  
1426XA  
1426XA

-7.25U  
-5.390  
0.000

CCL  
GR  
NEU

Created by : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : WILLIAMS PRODUCTION COMPANY

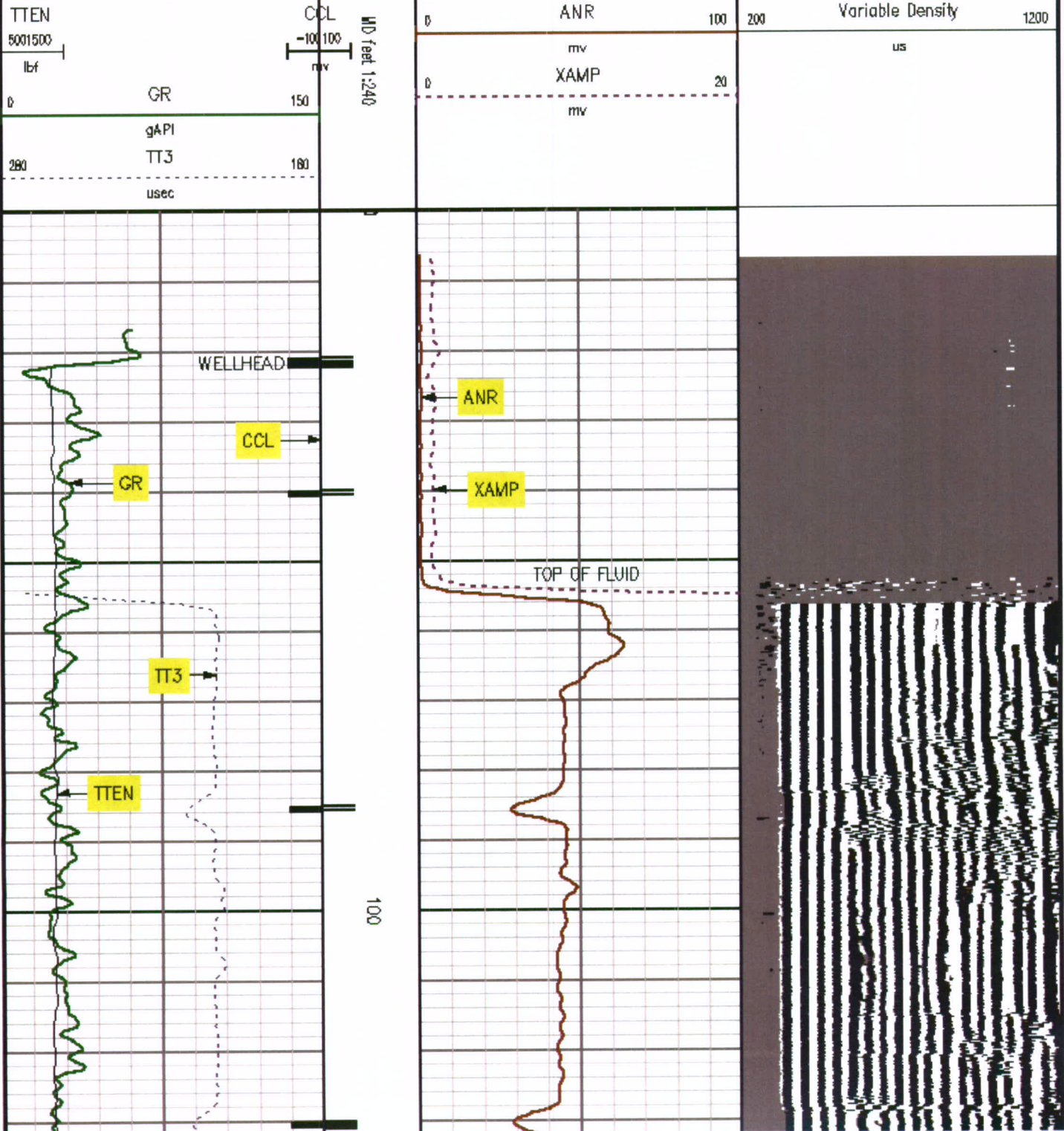
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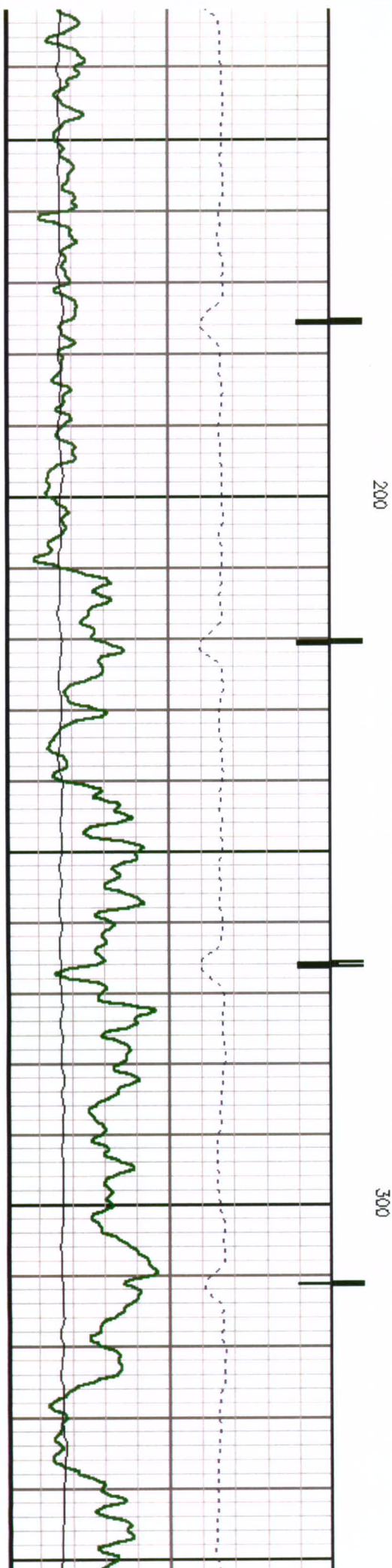
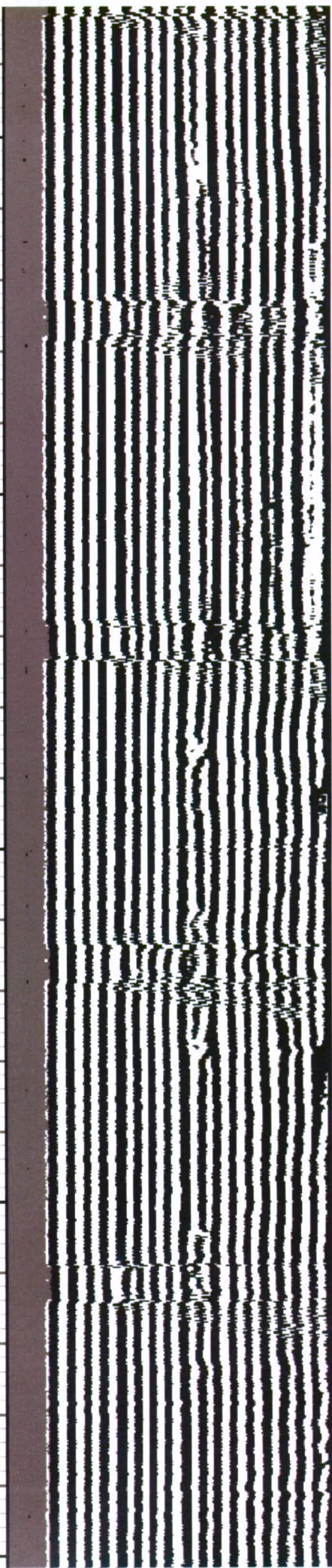
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Interval : 0.00 - 8250.00 feet UP

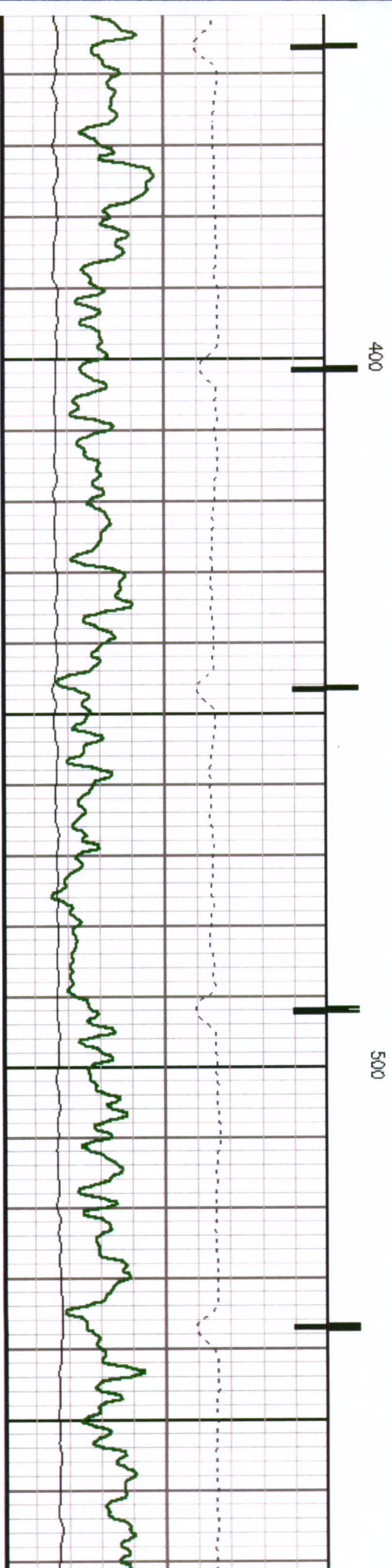
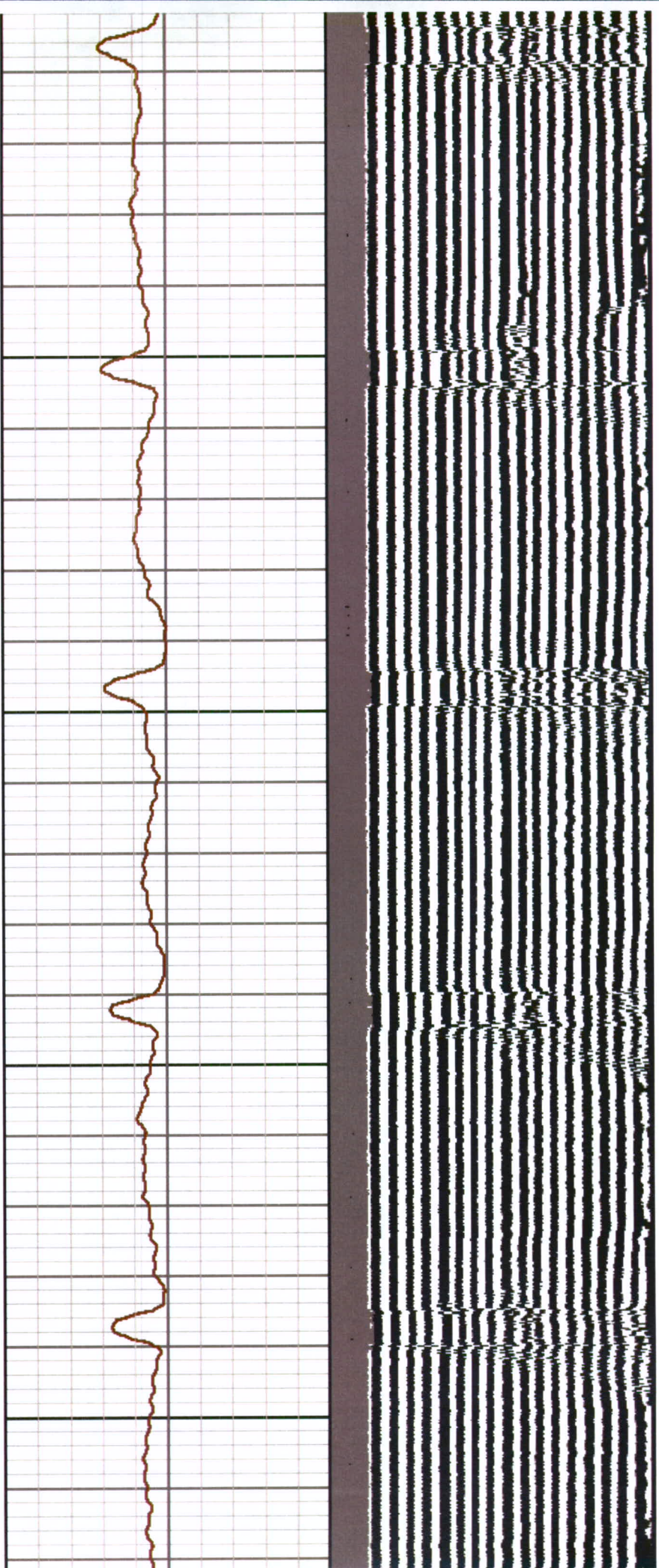
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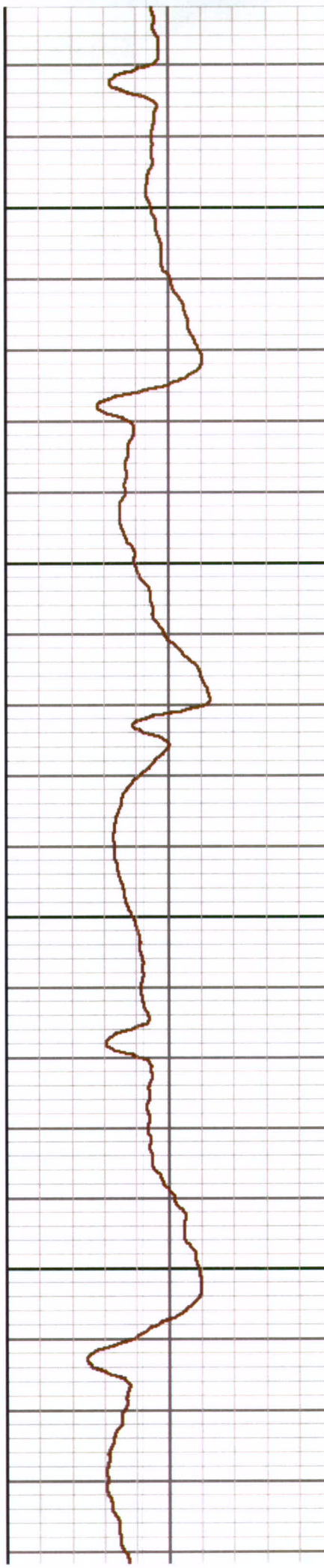
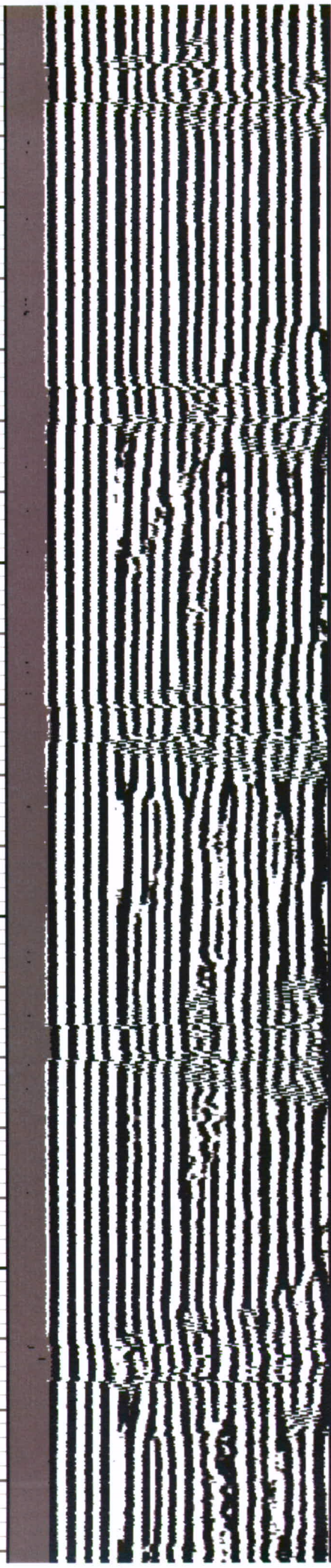




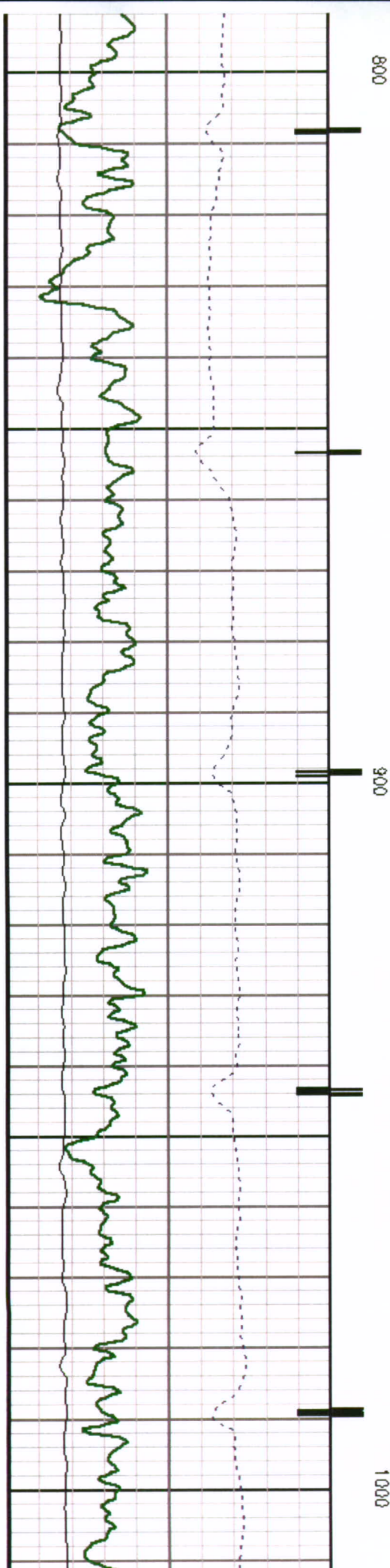
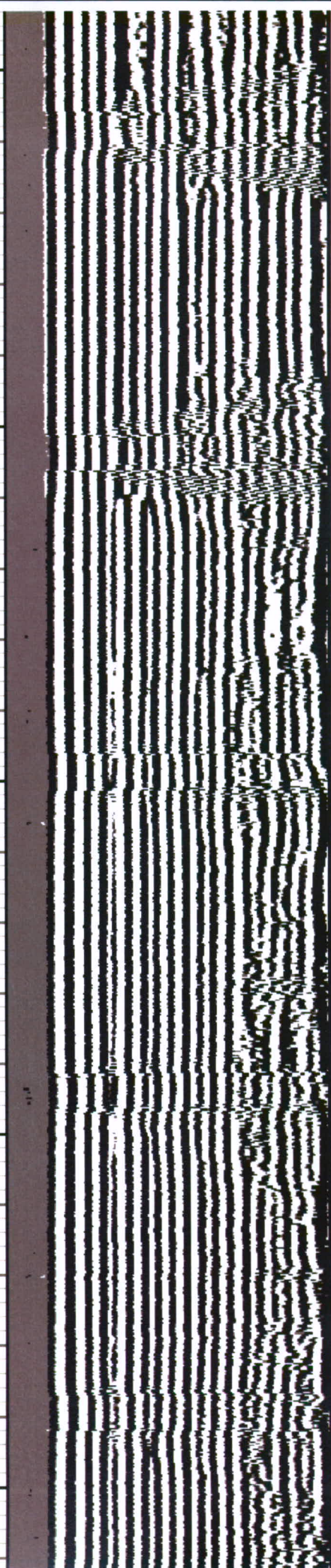




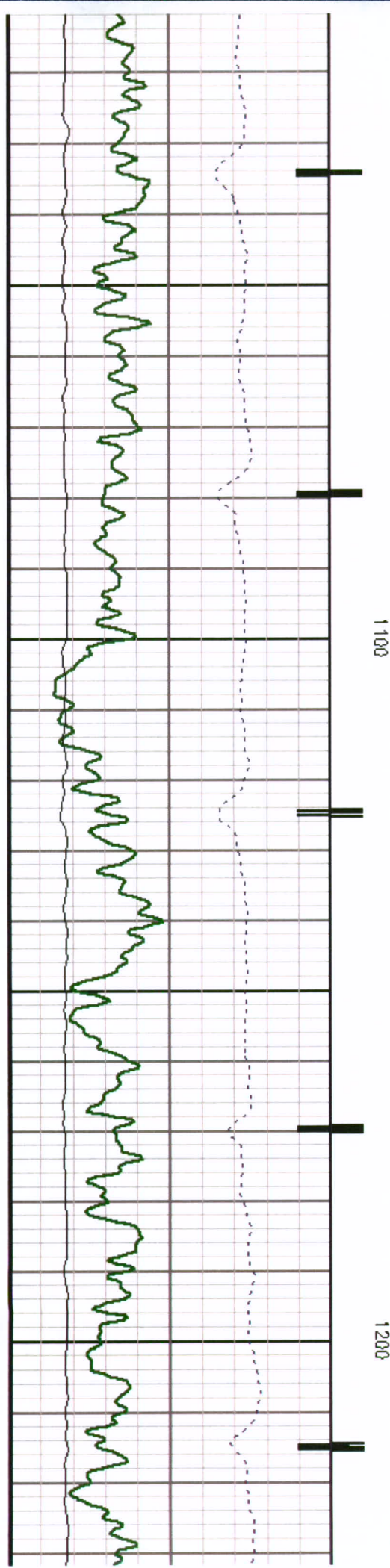
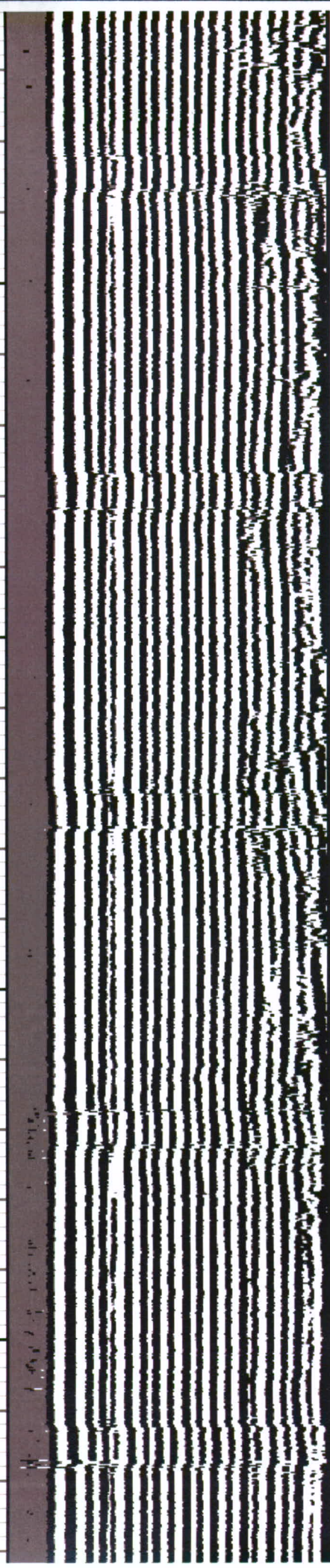




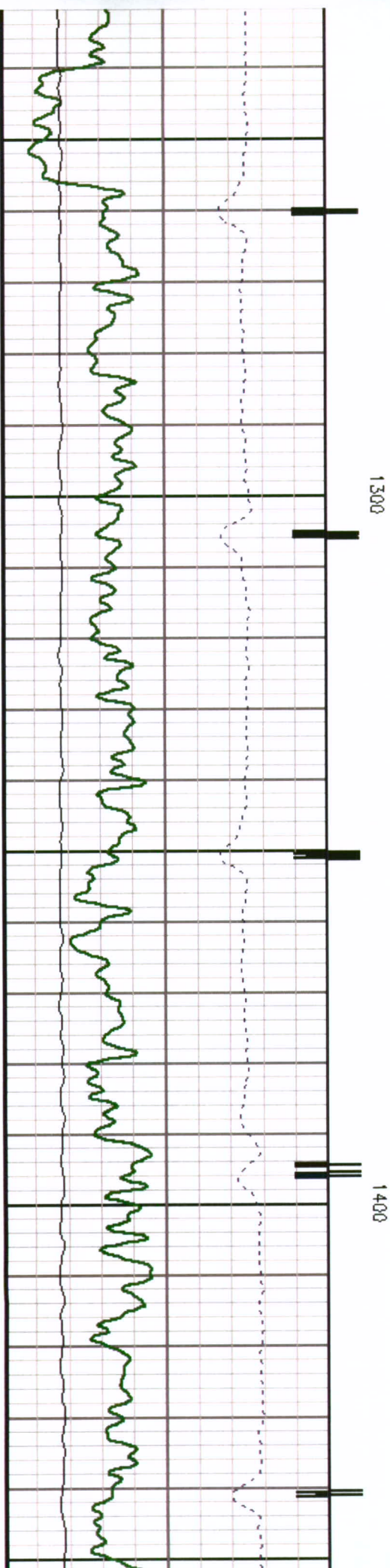
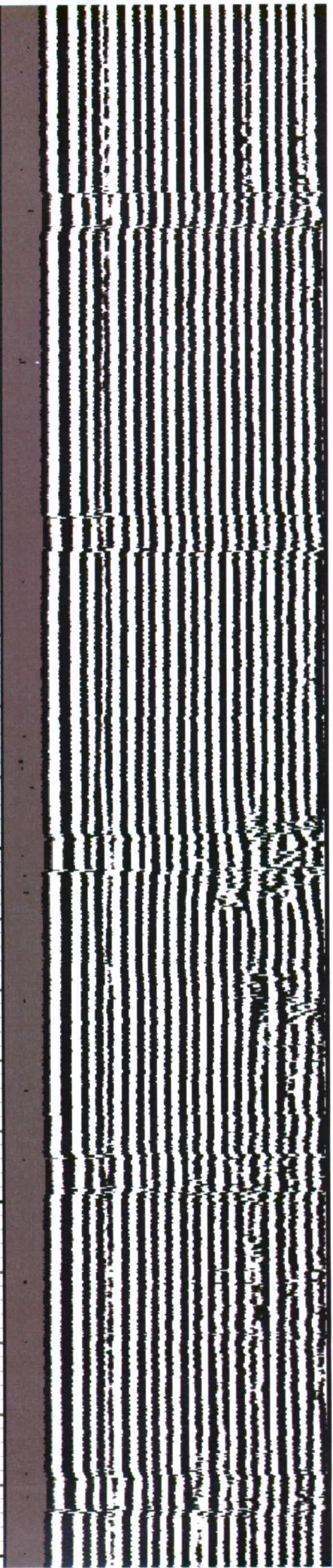




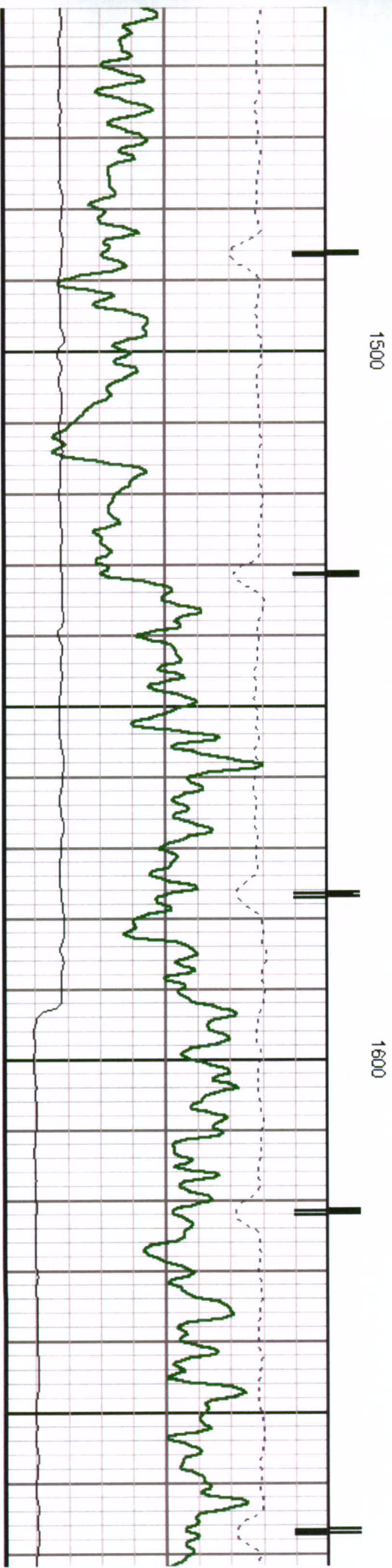
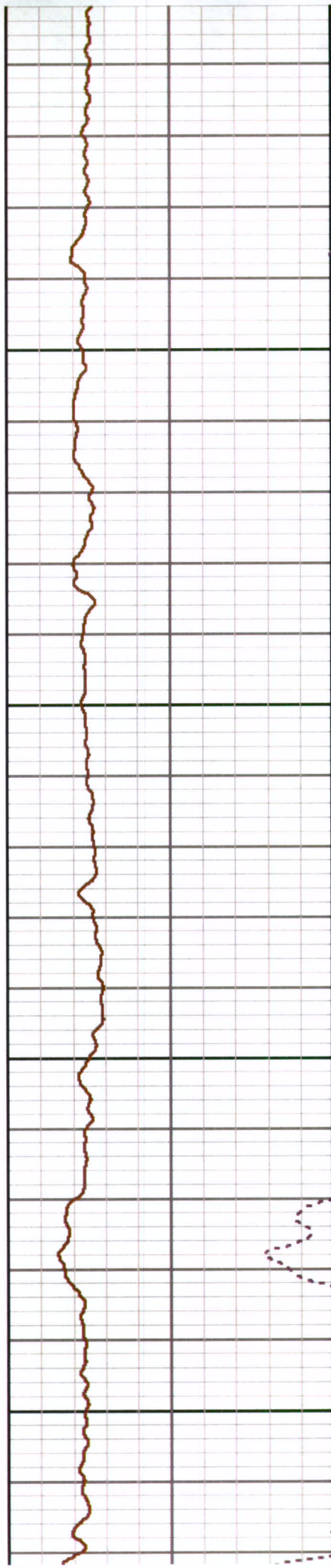
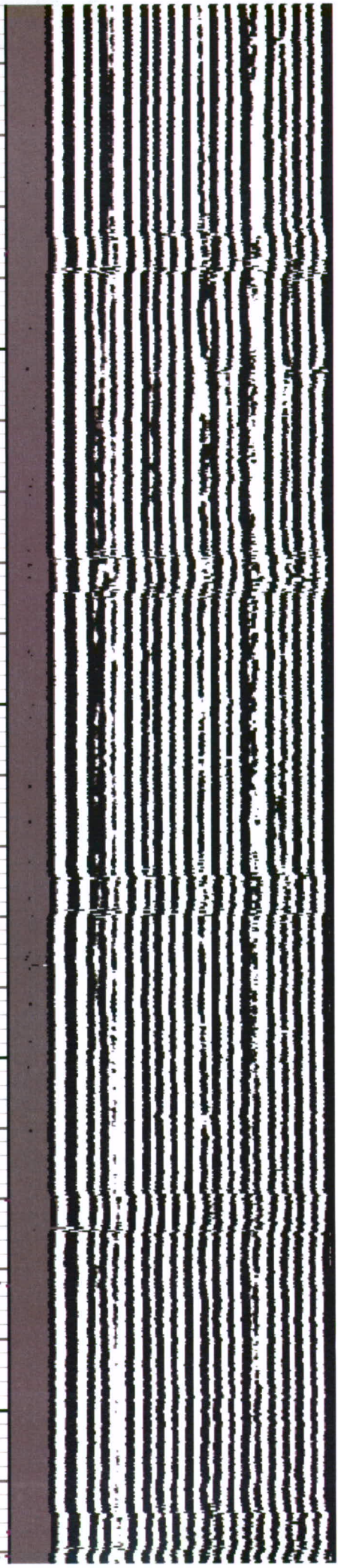




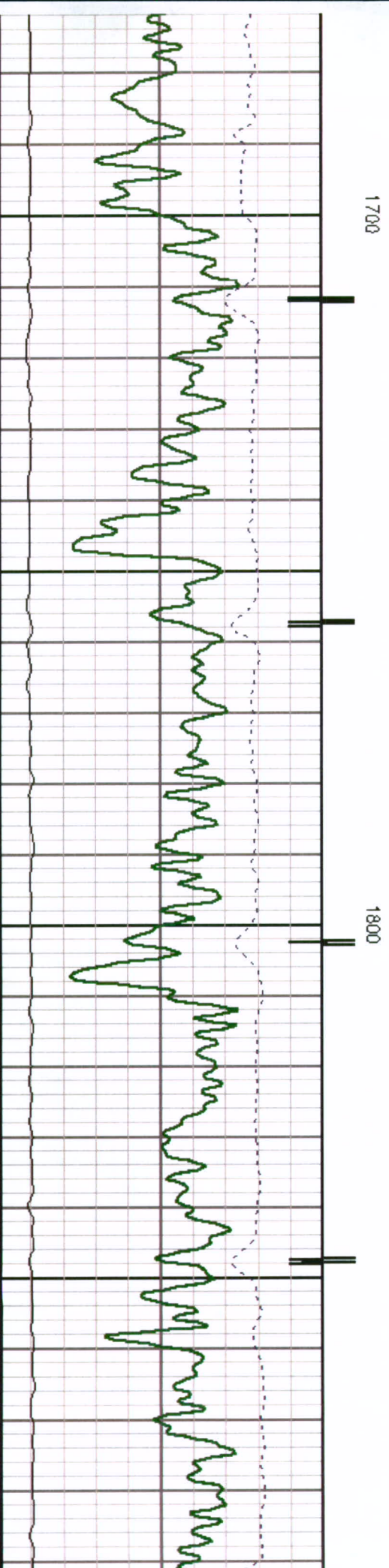
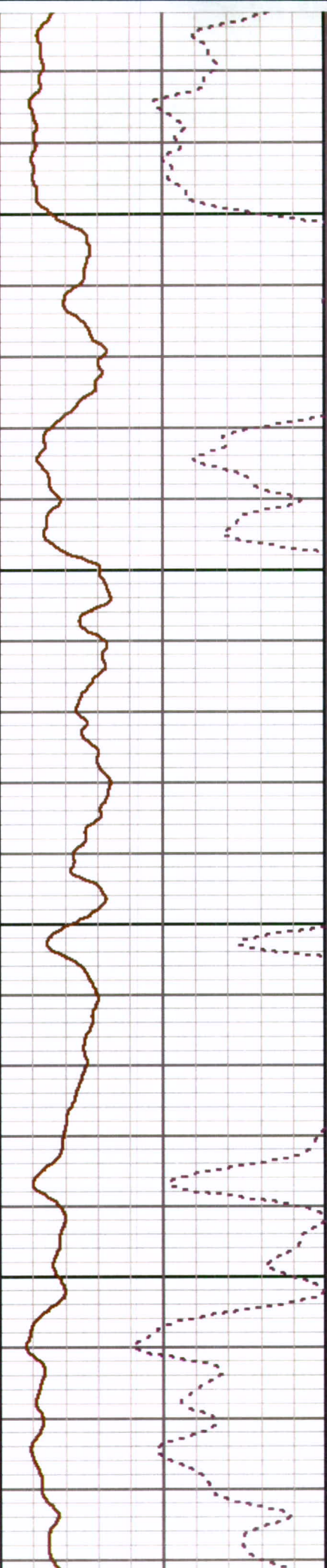
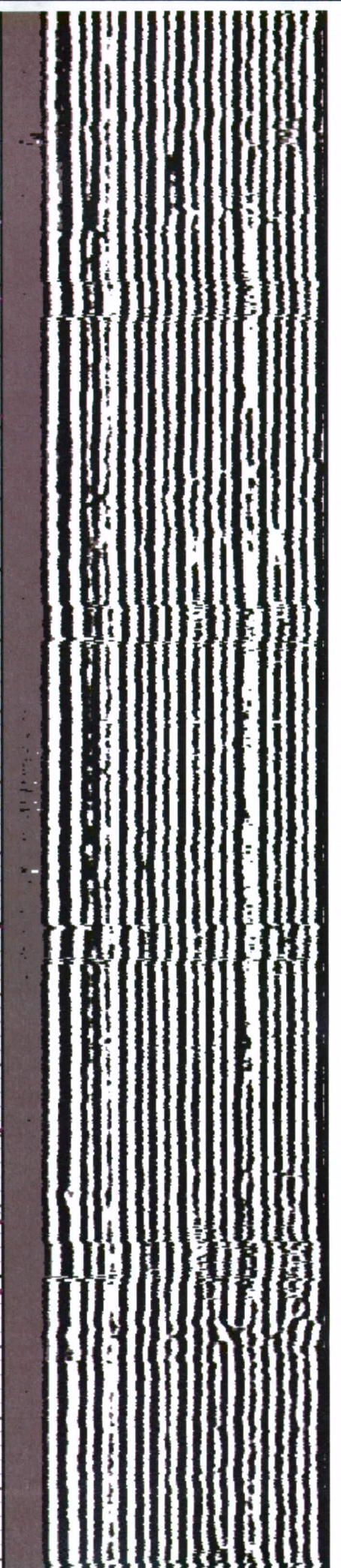




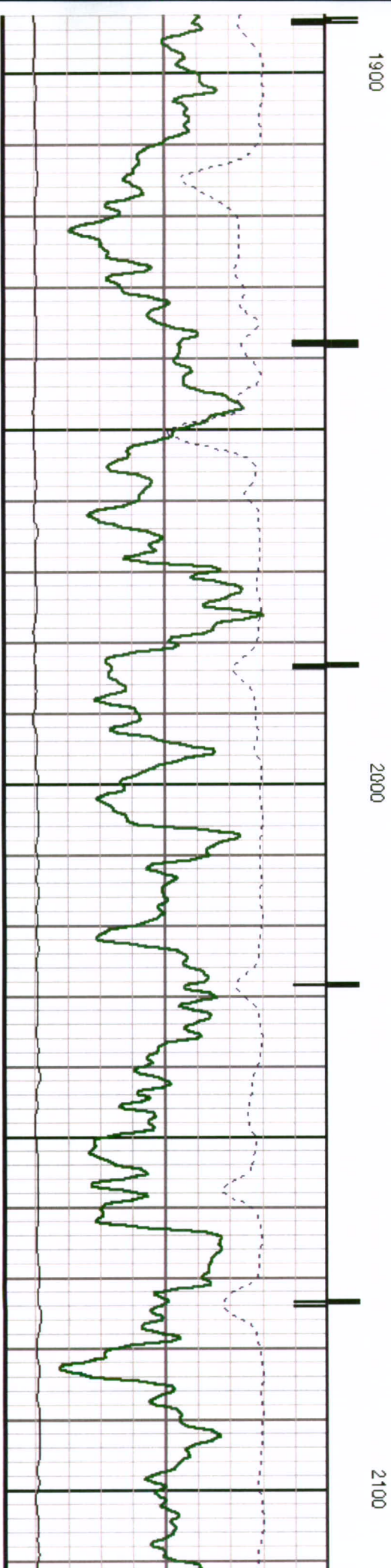




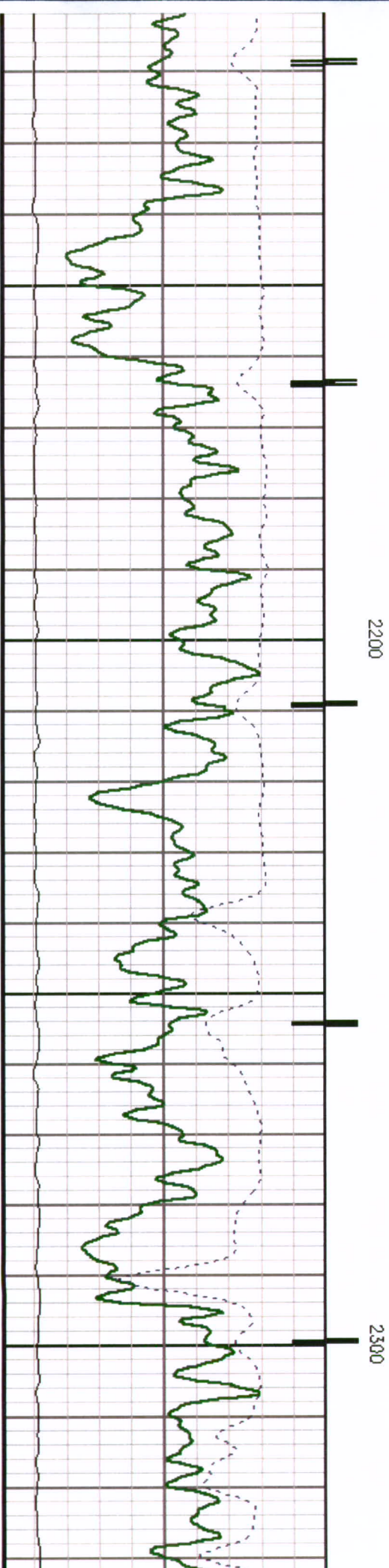
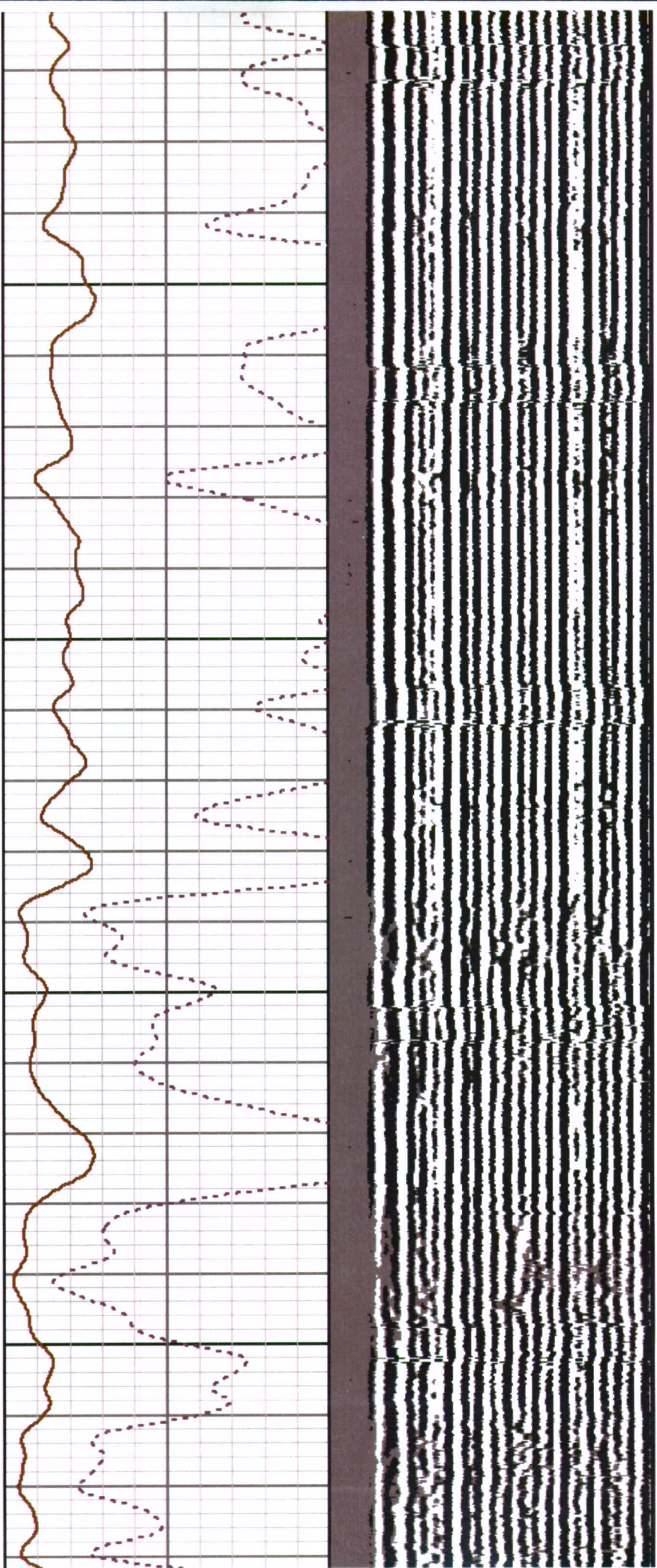




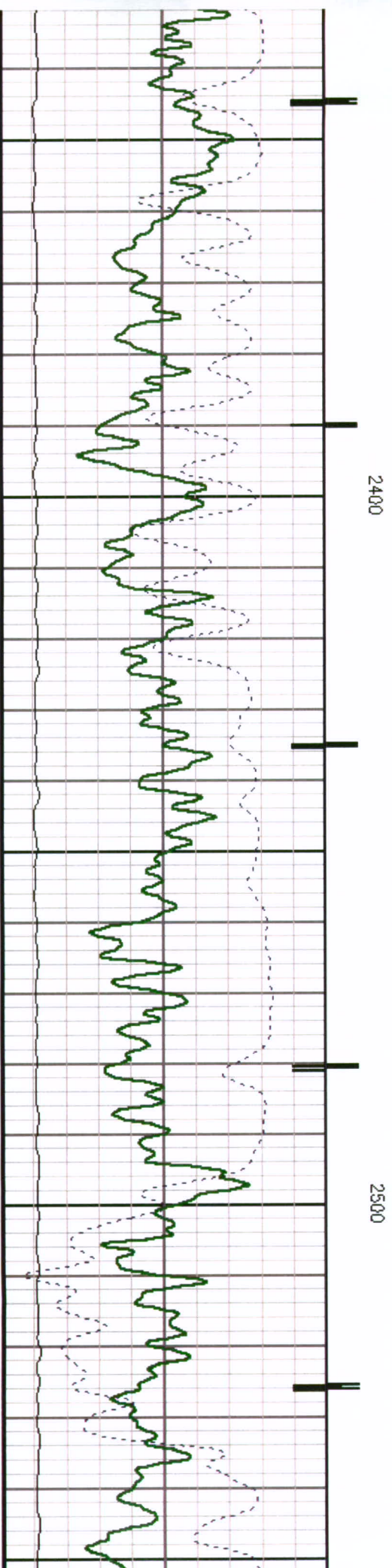
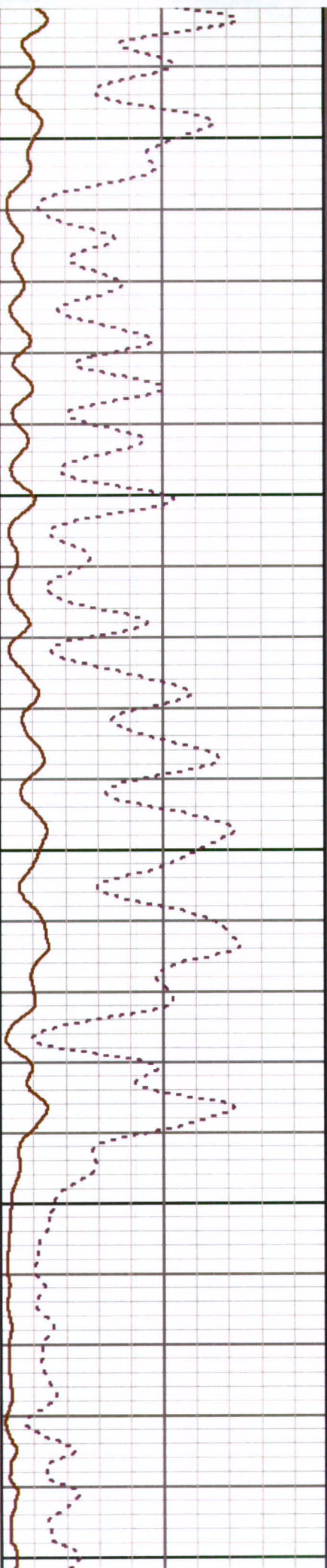
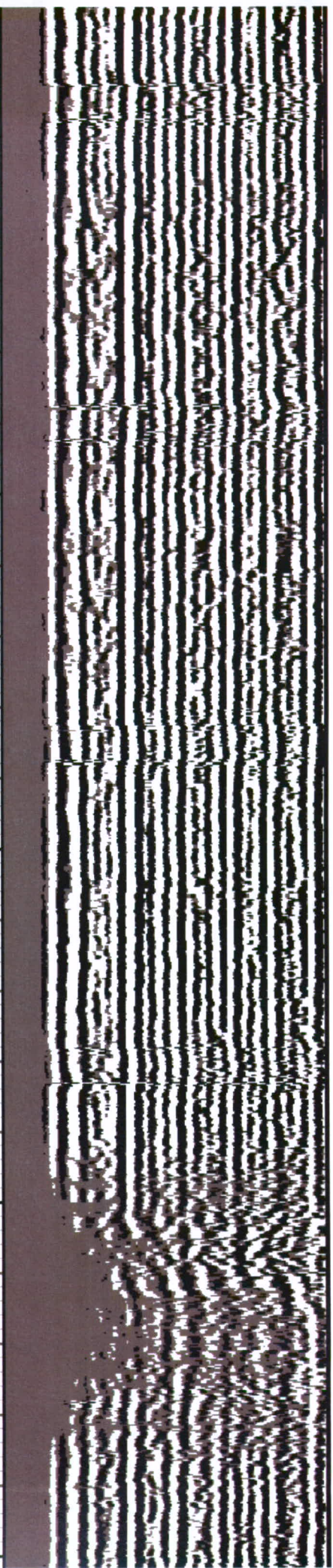




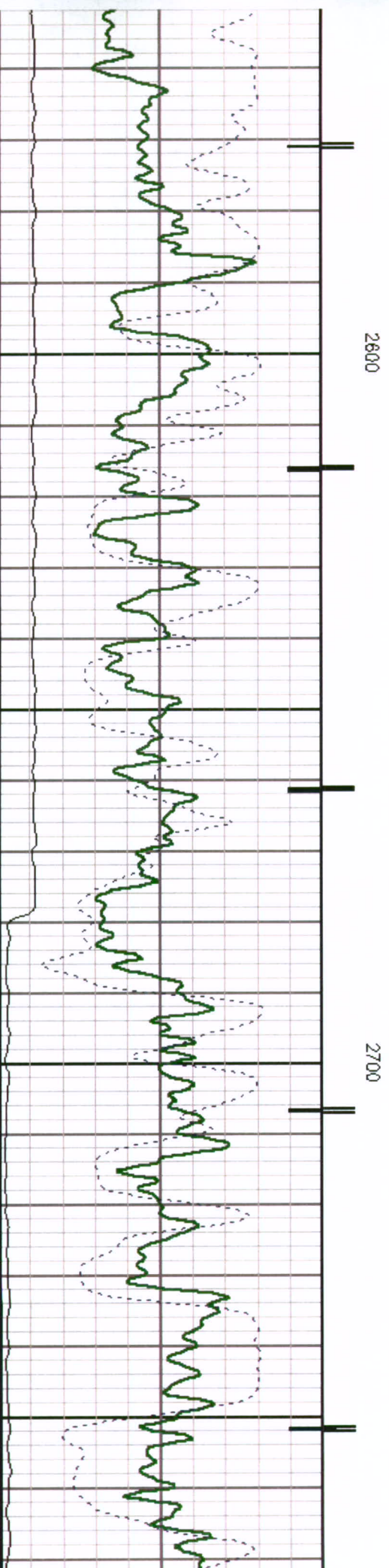
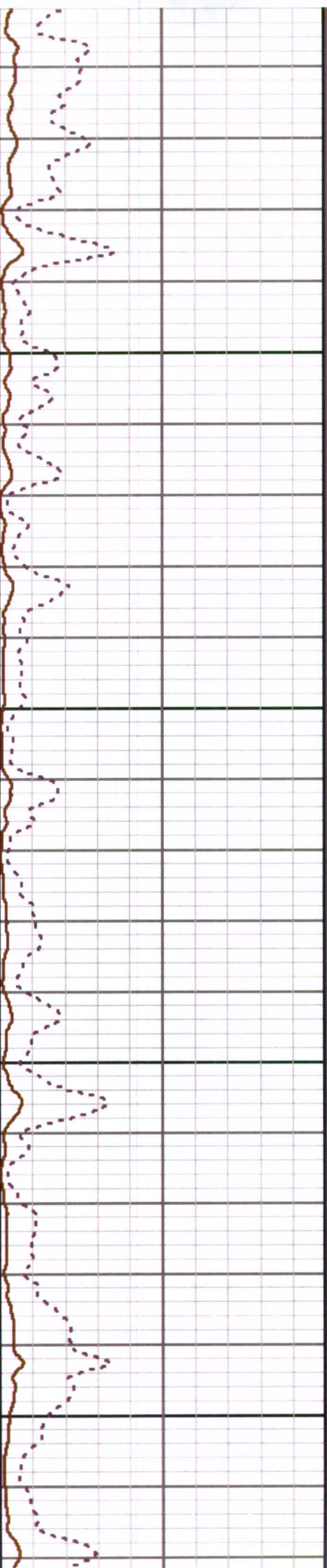
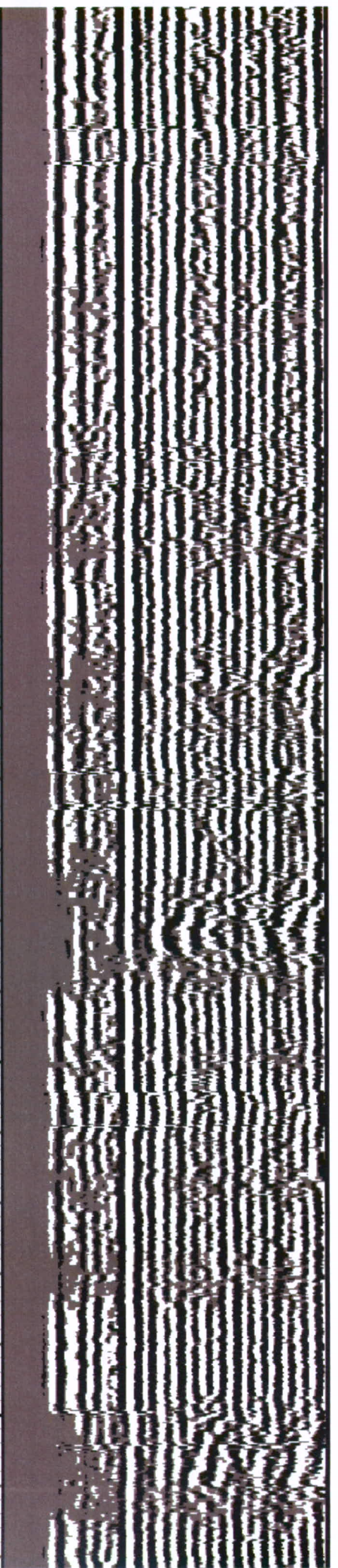




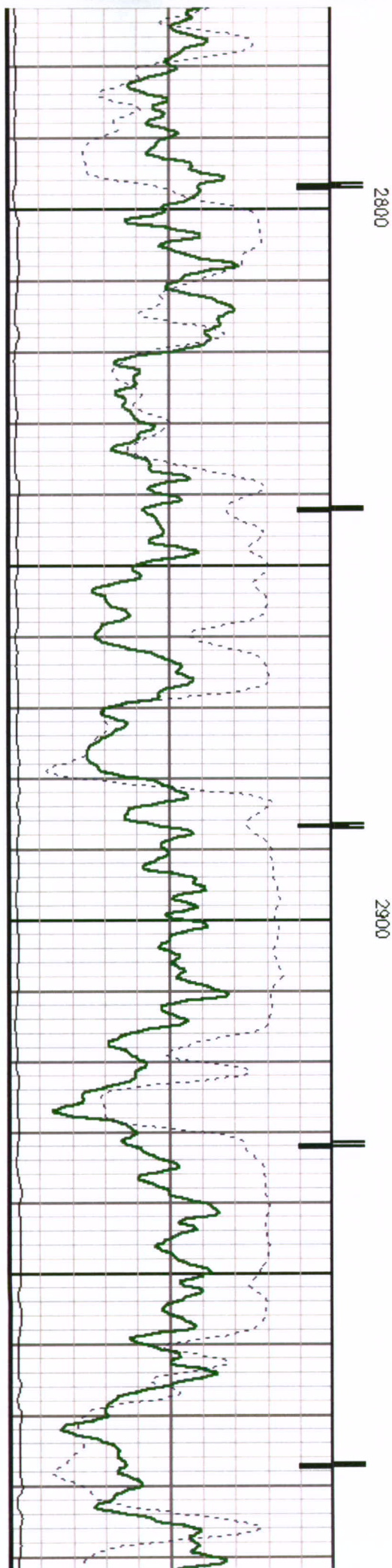
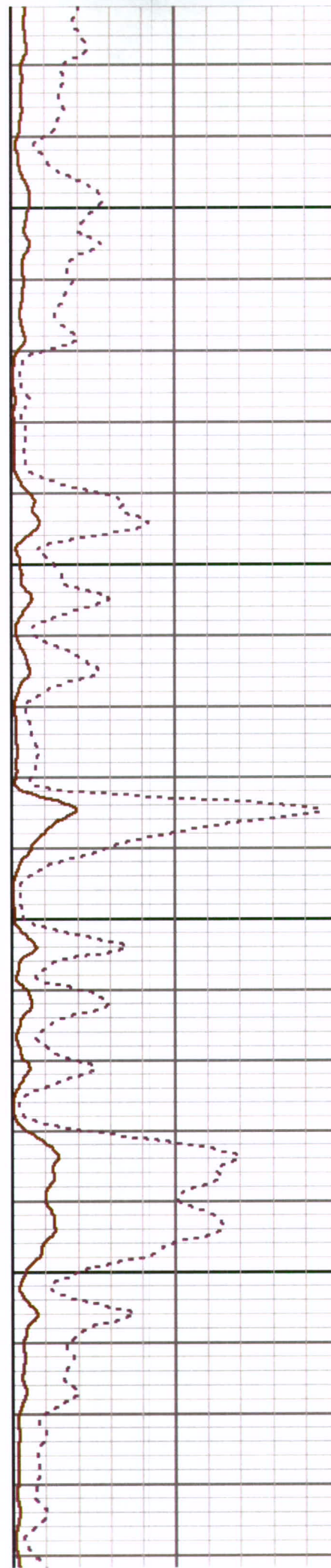
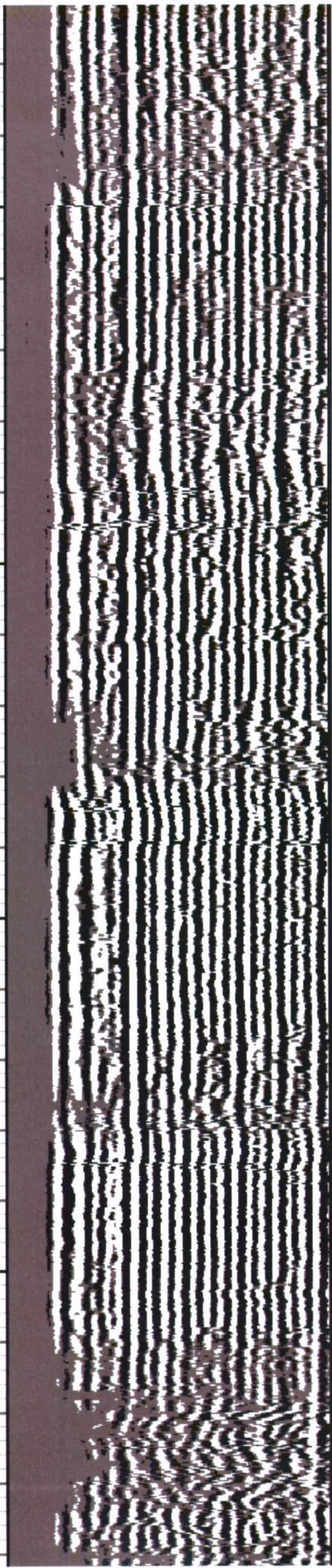




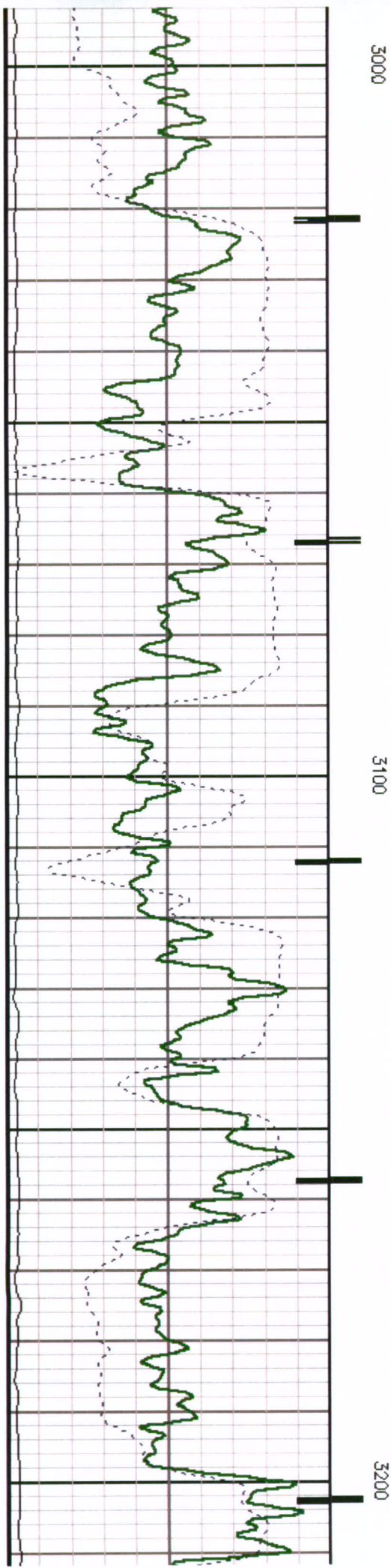
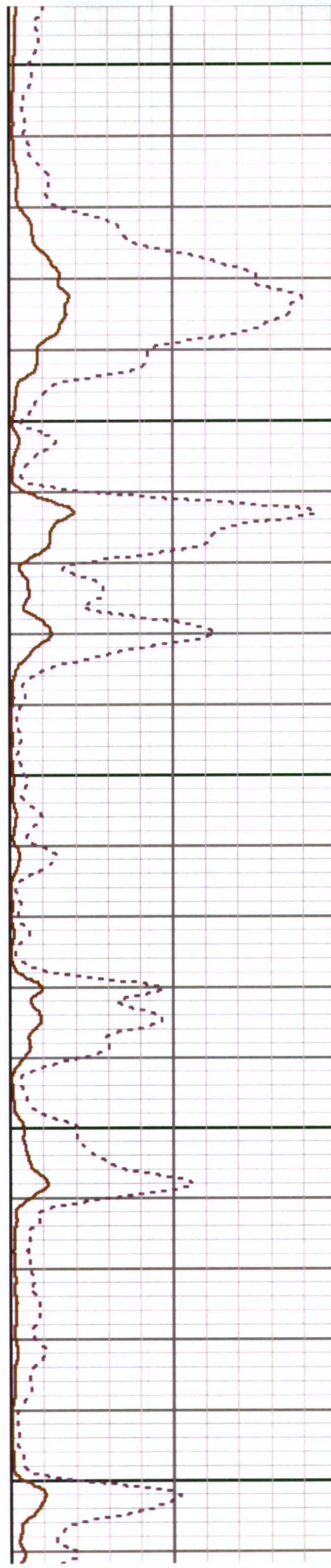




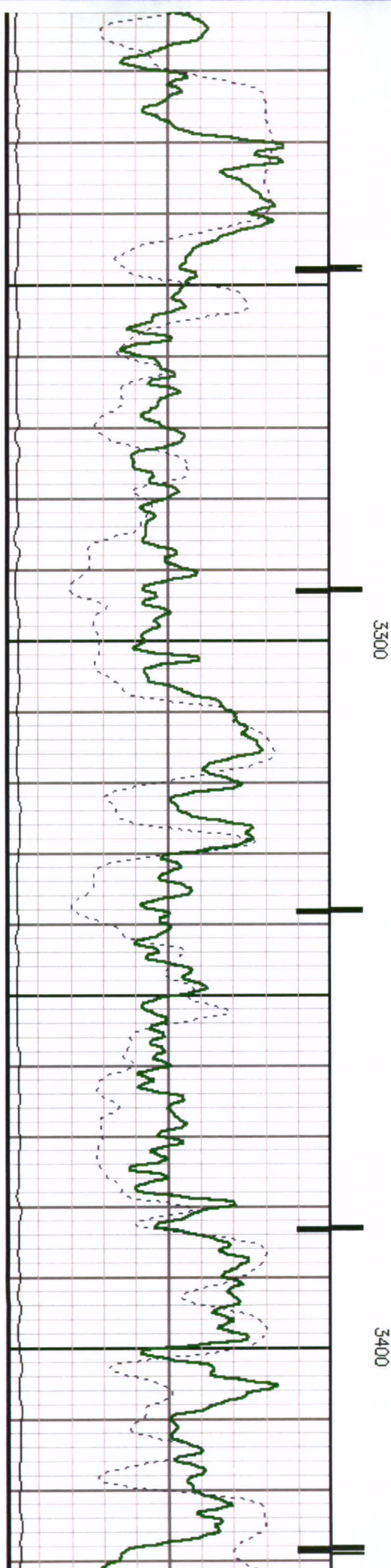
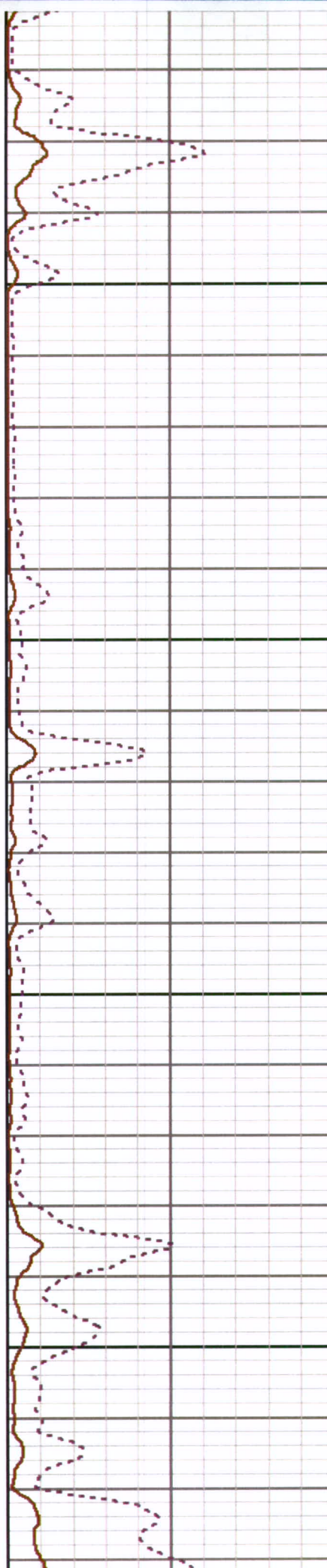
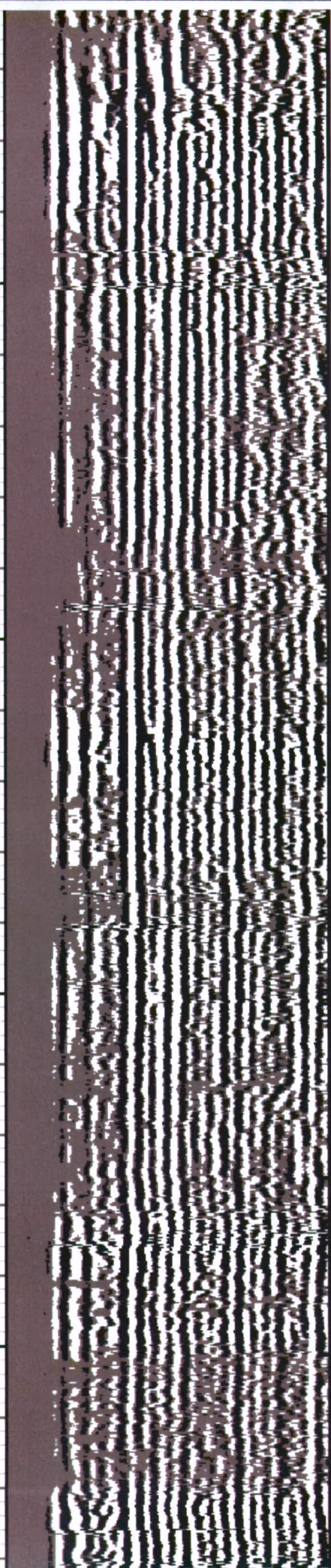




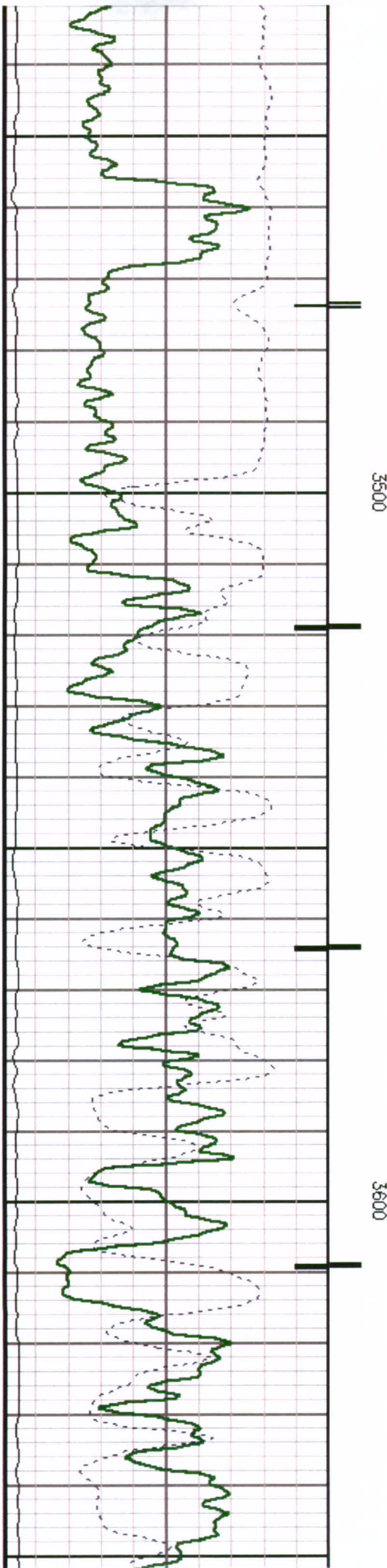
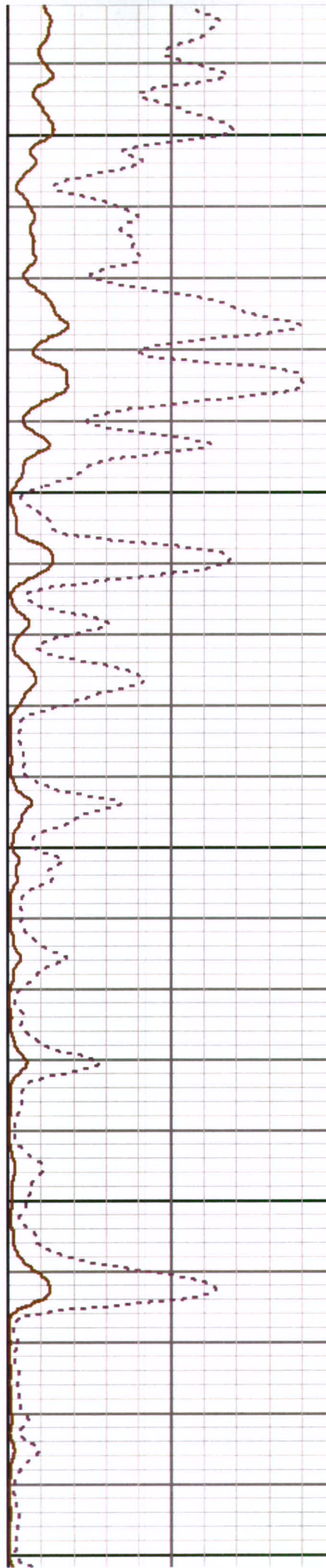
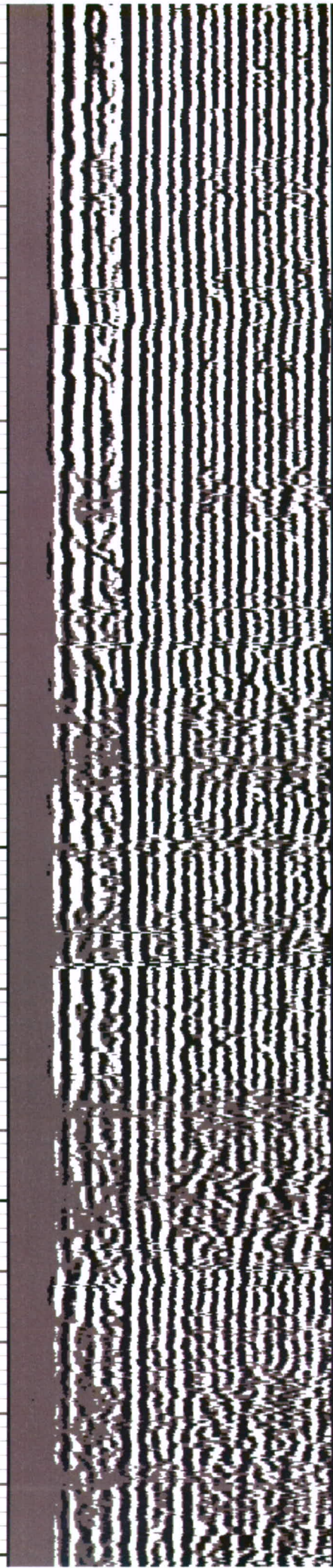




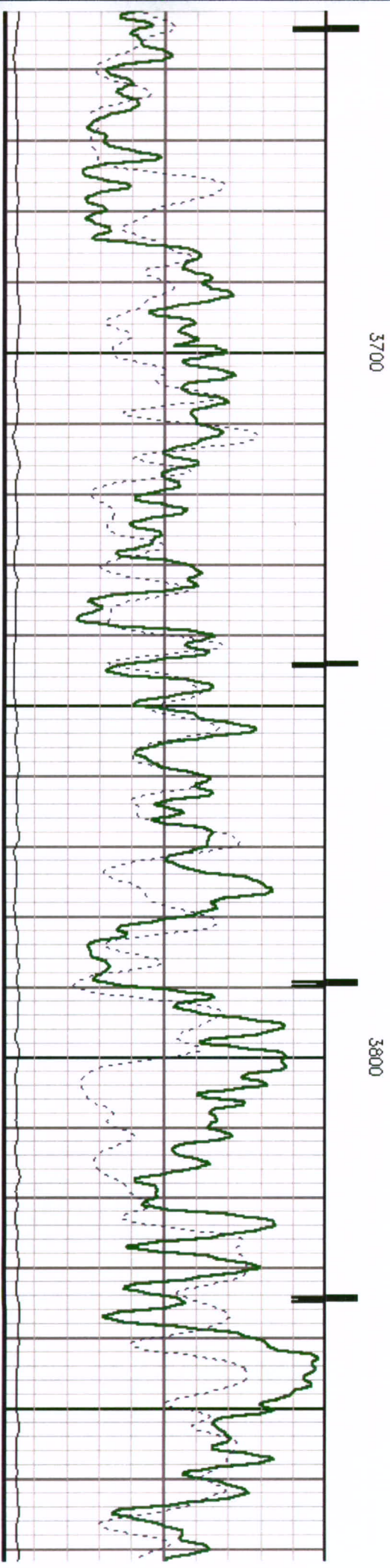
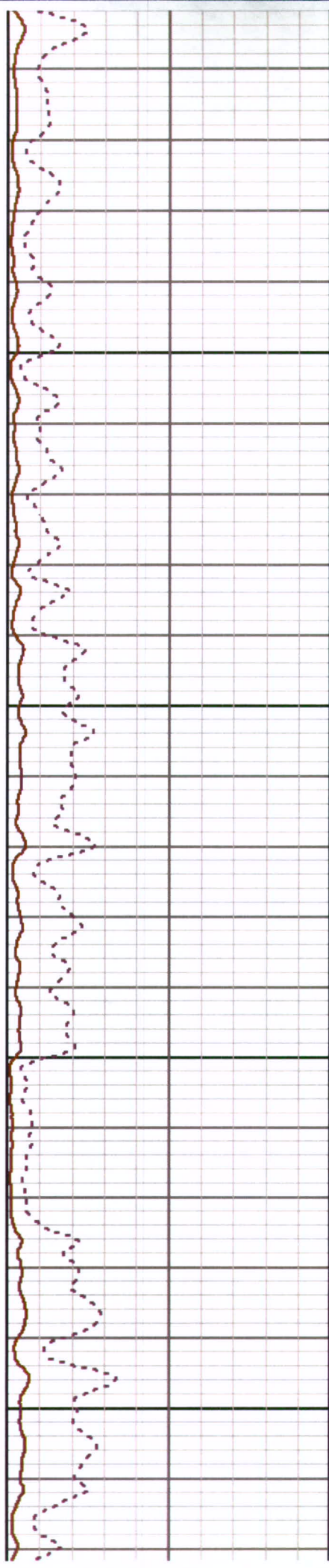
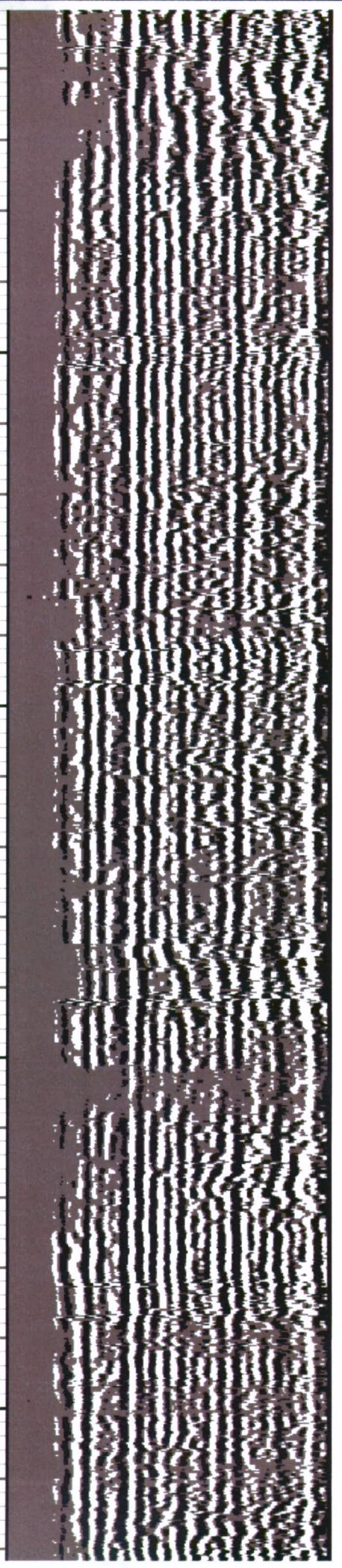




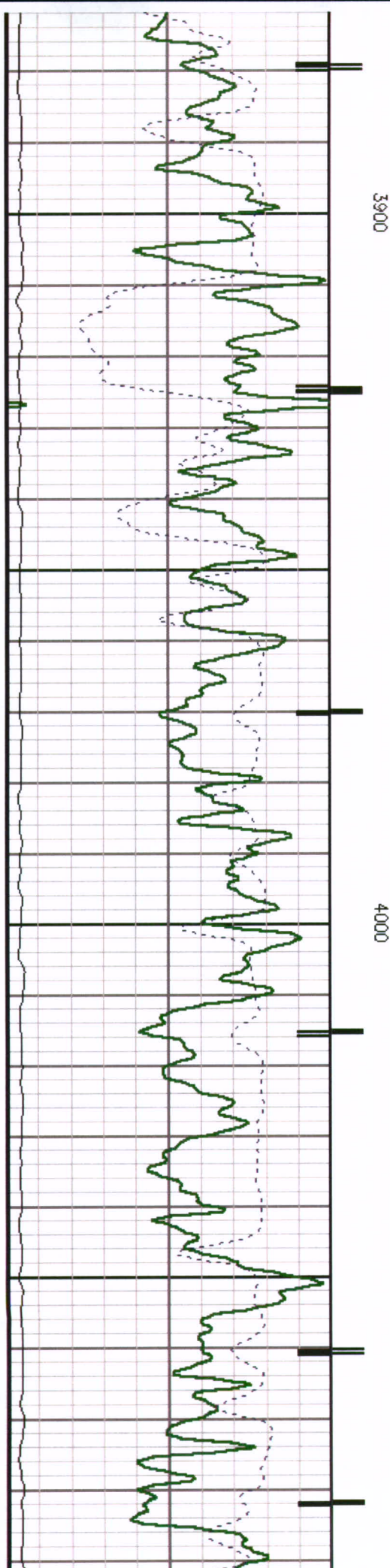
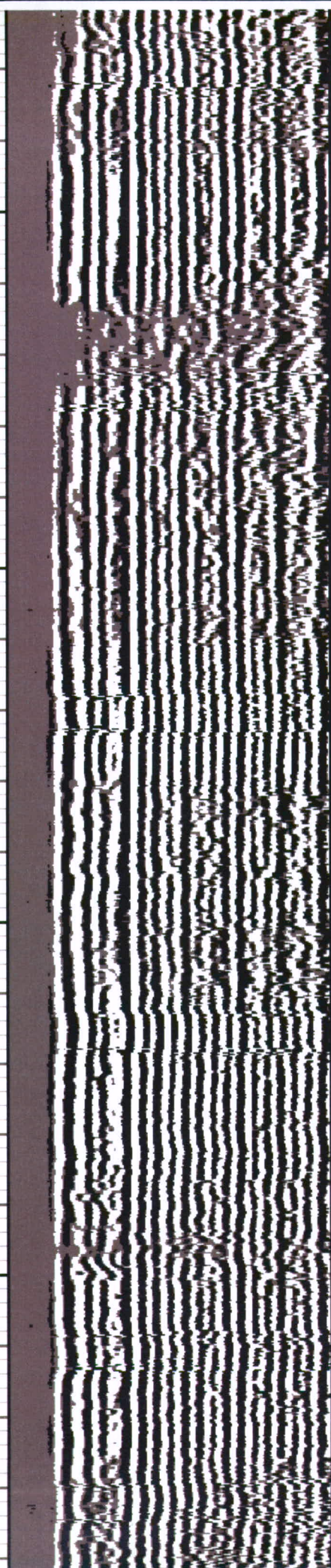




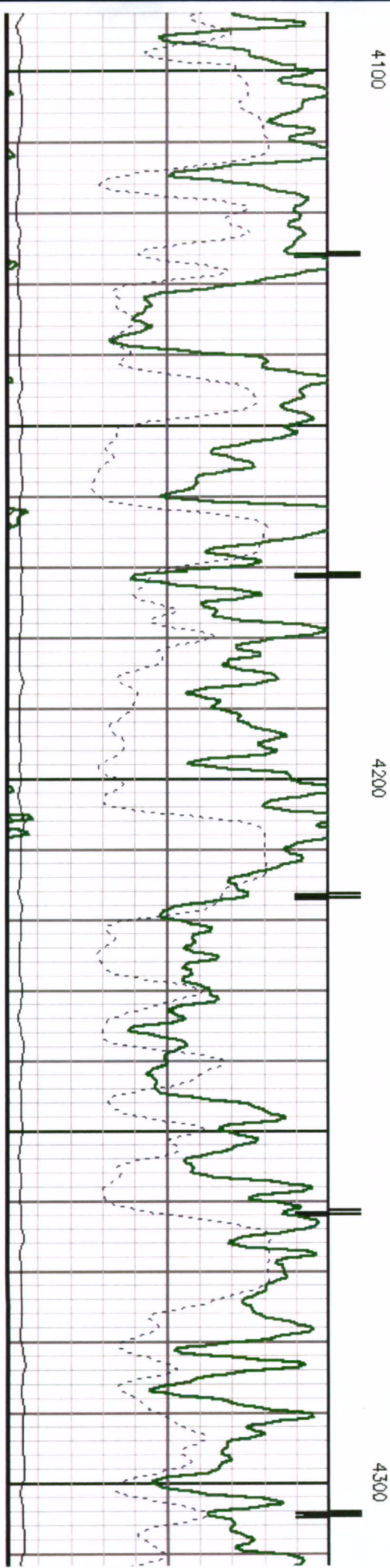
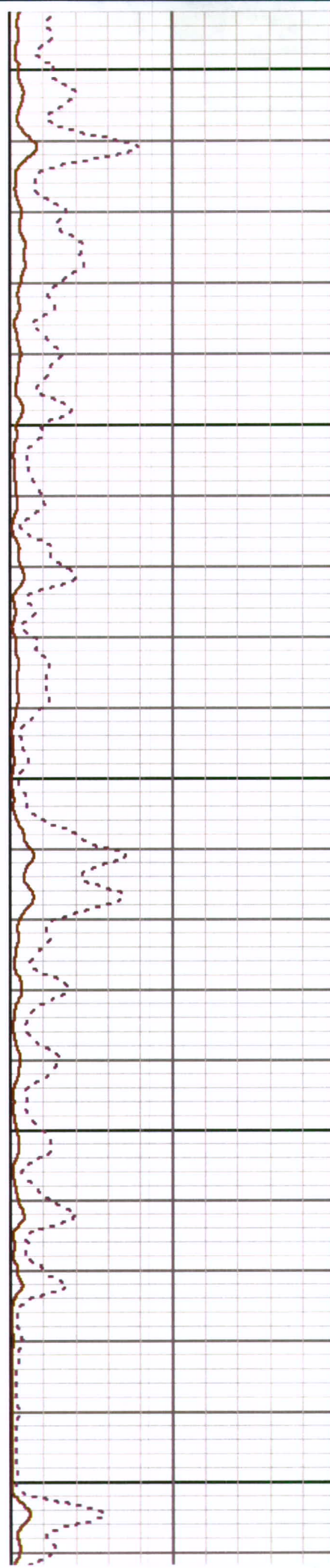
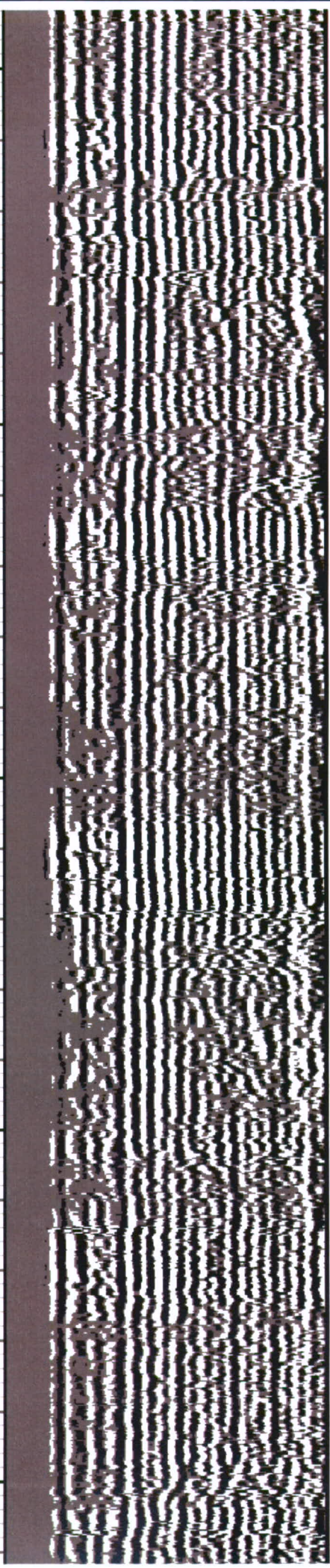




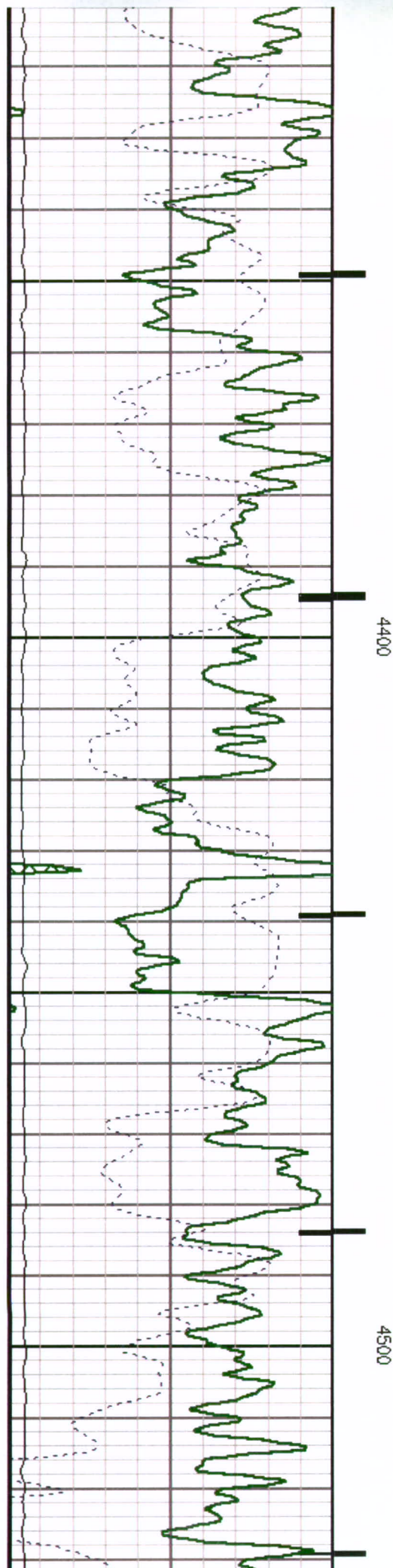
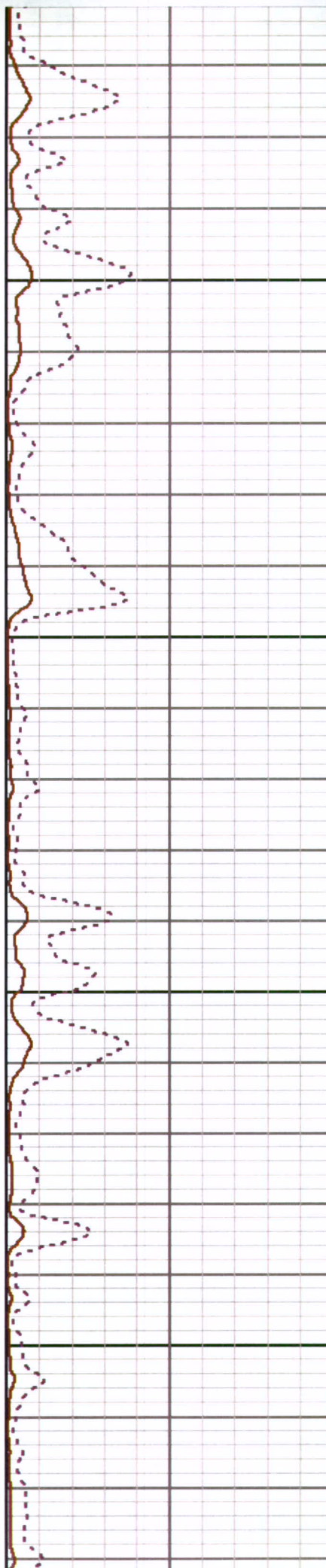
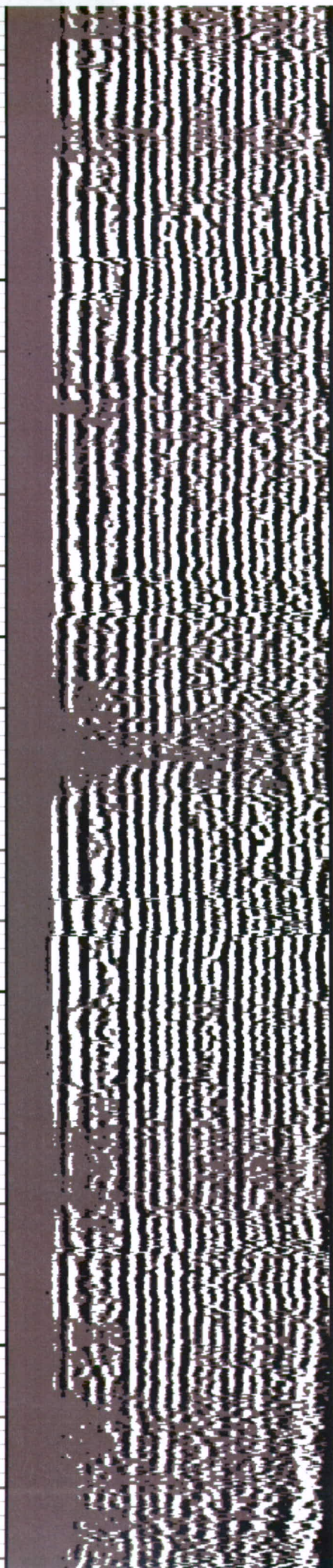




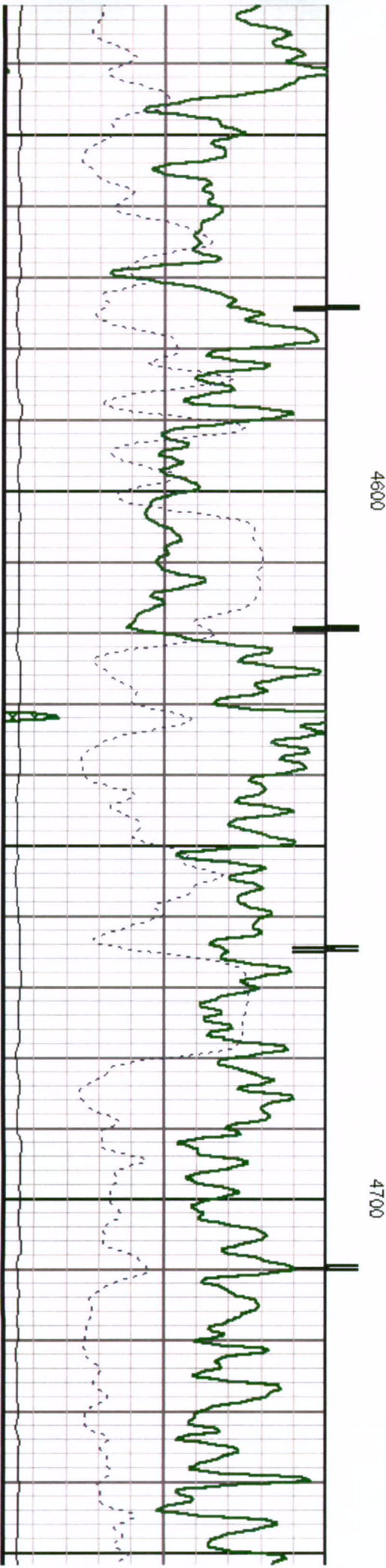
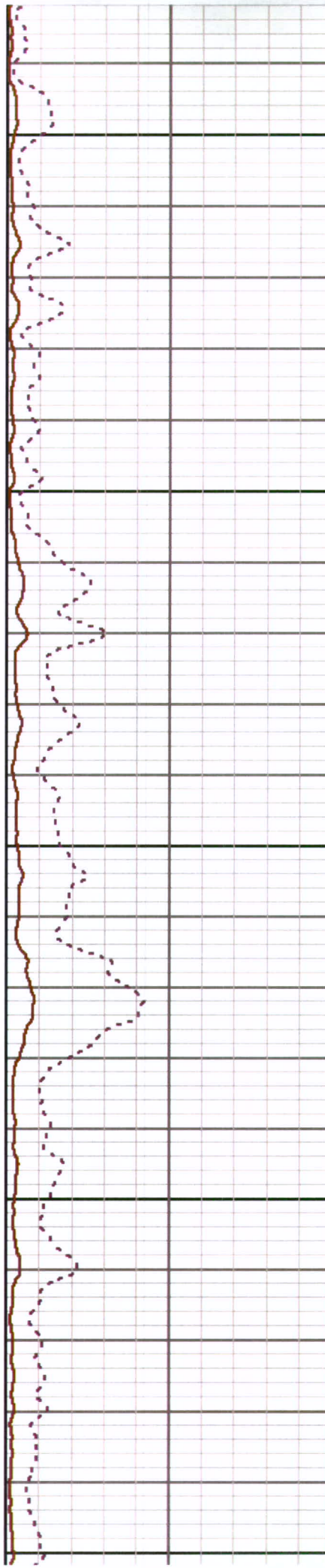
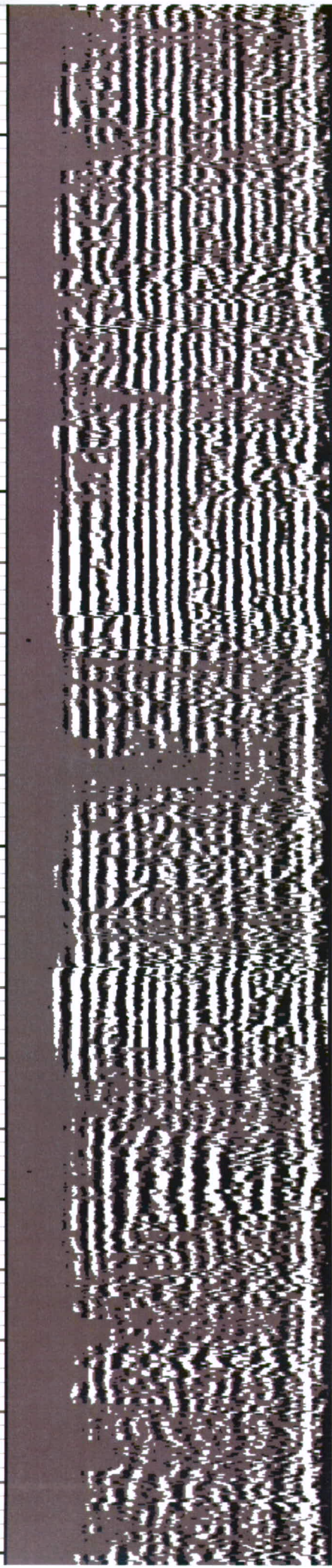




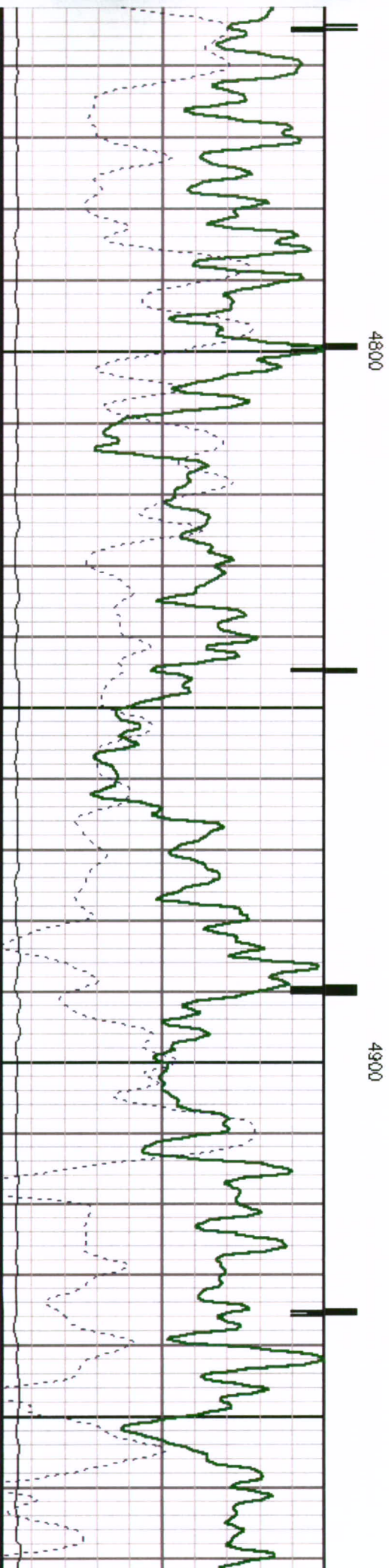
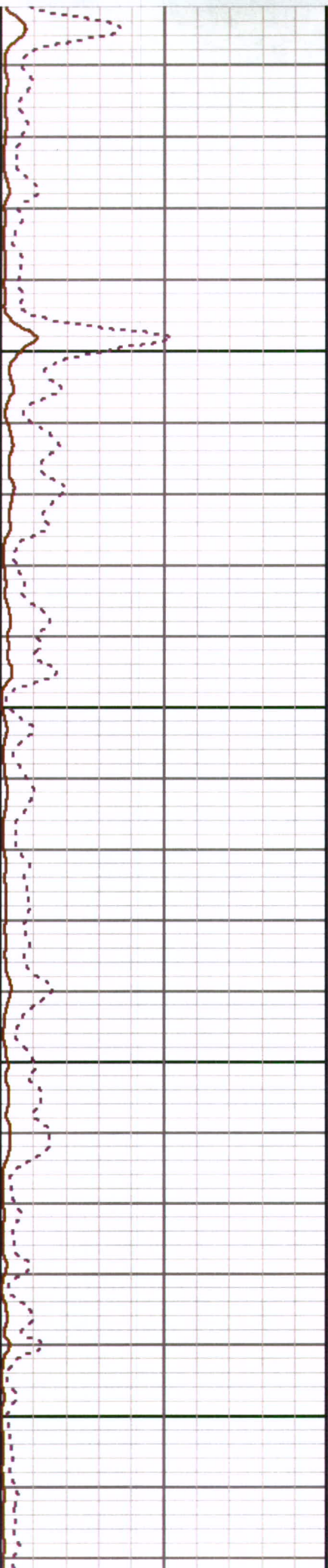
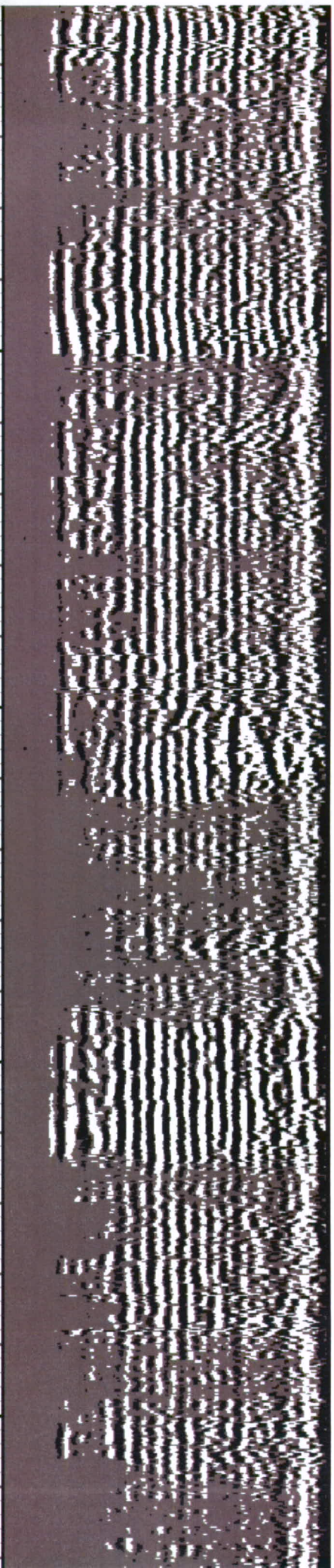




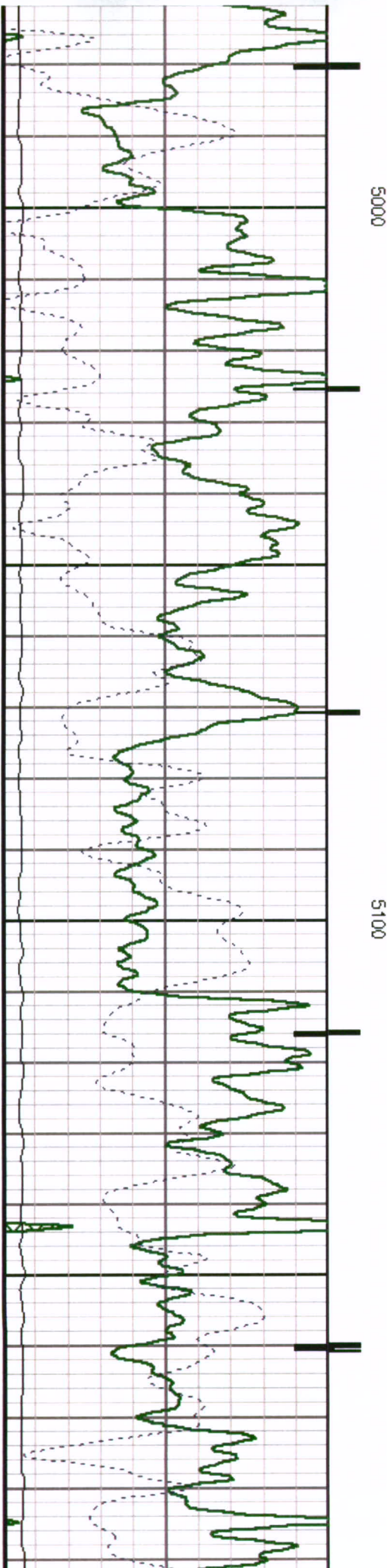
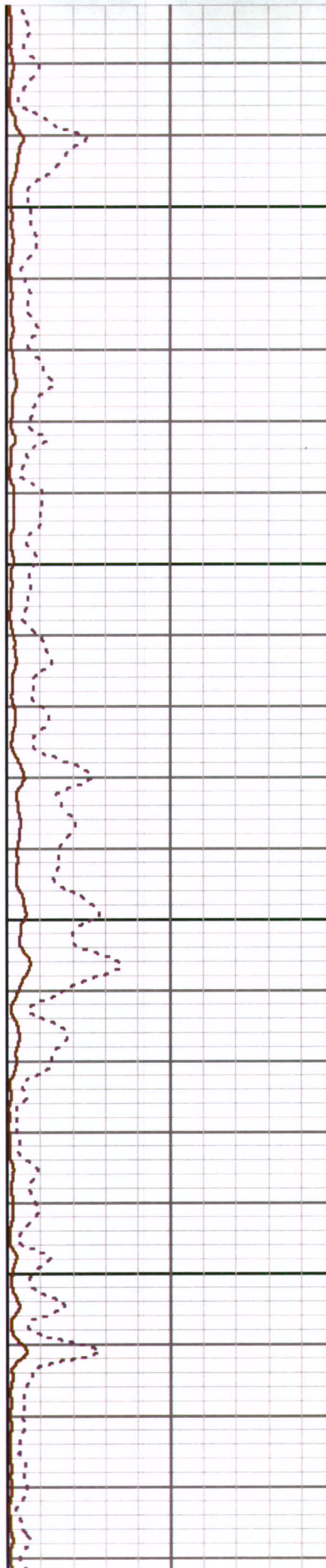
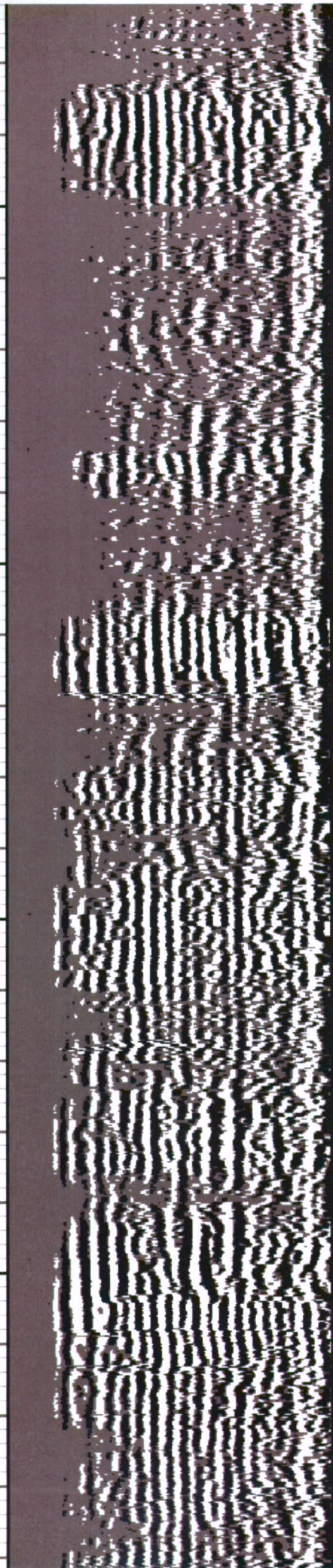




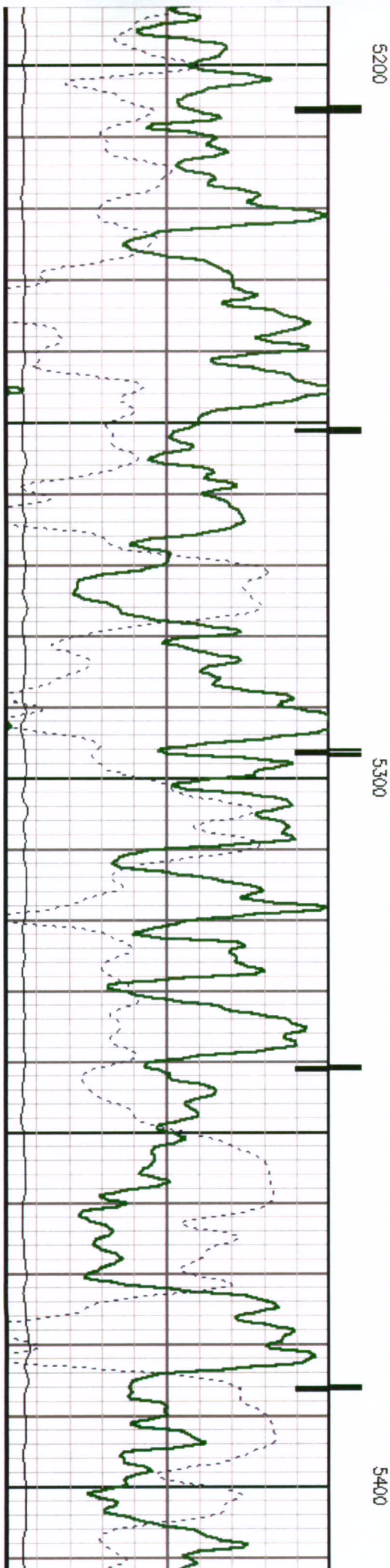
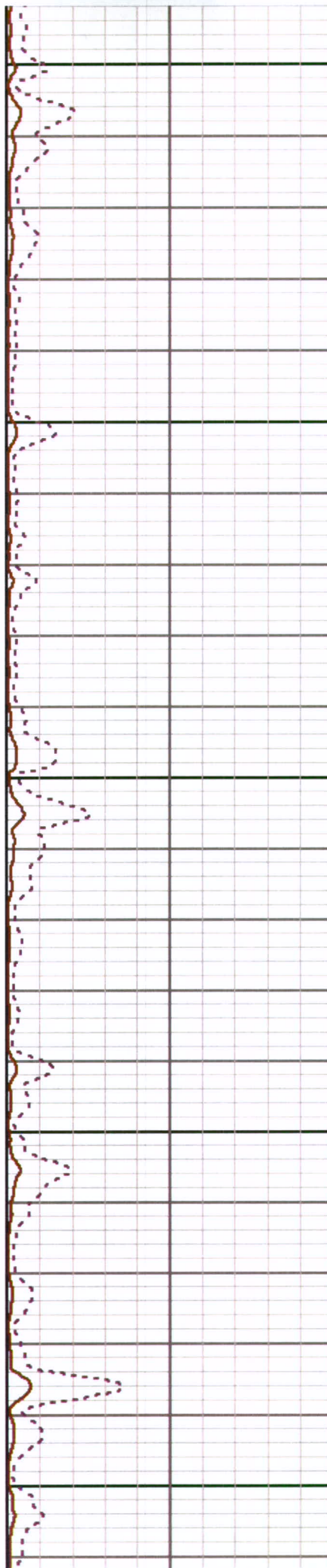
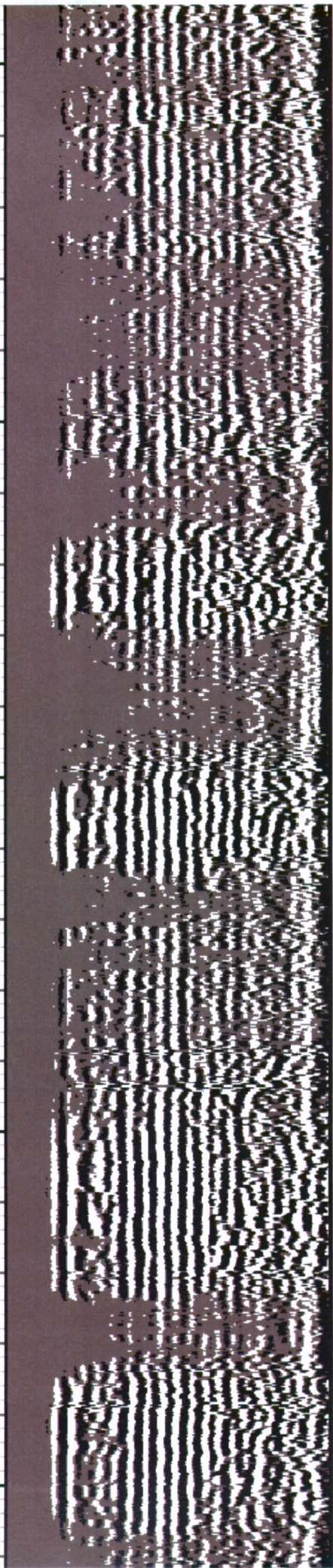




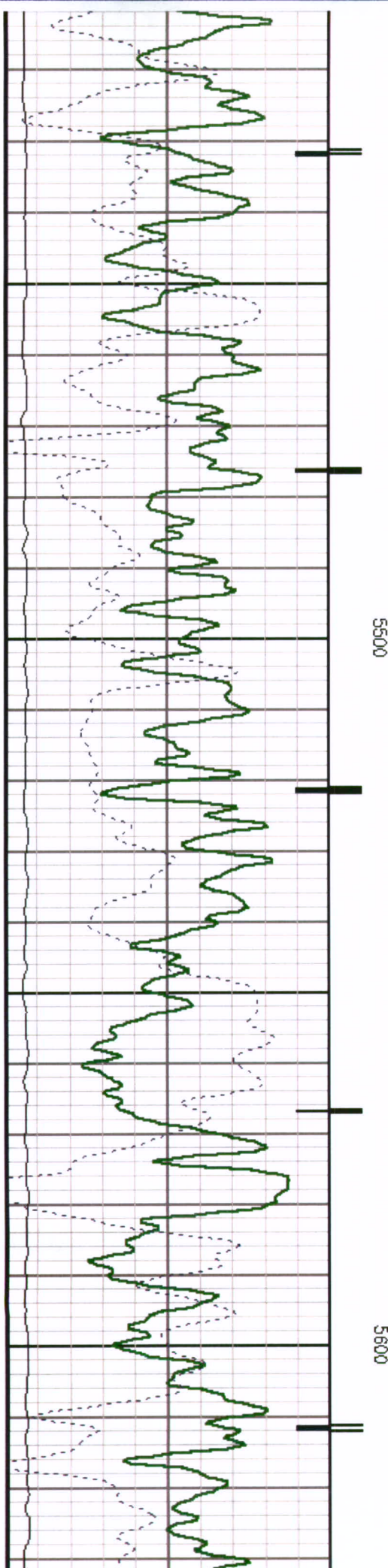
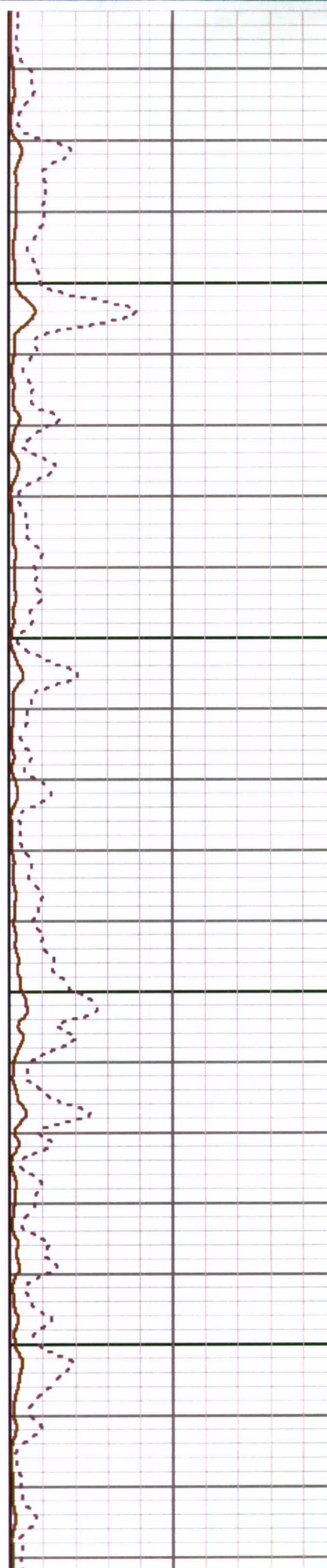
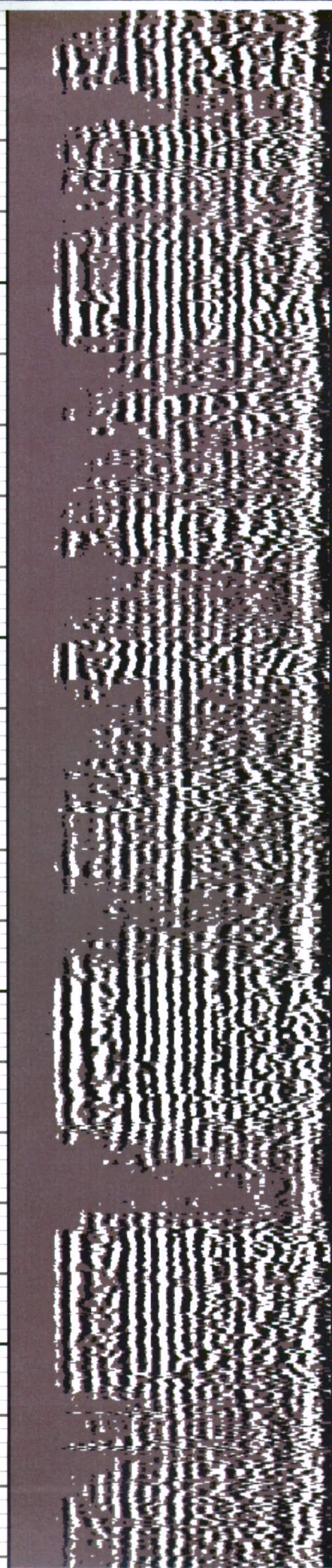




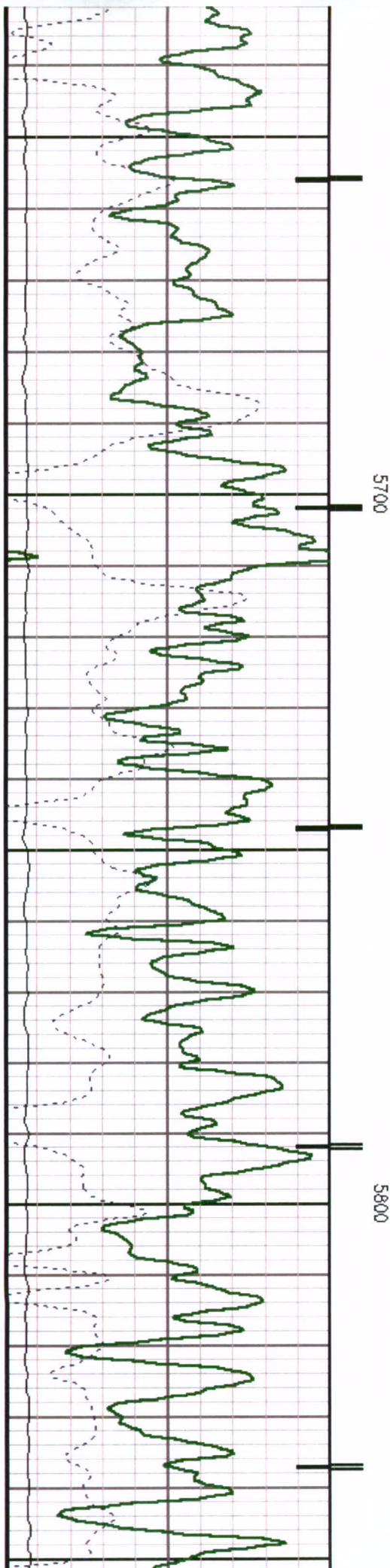
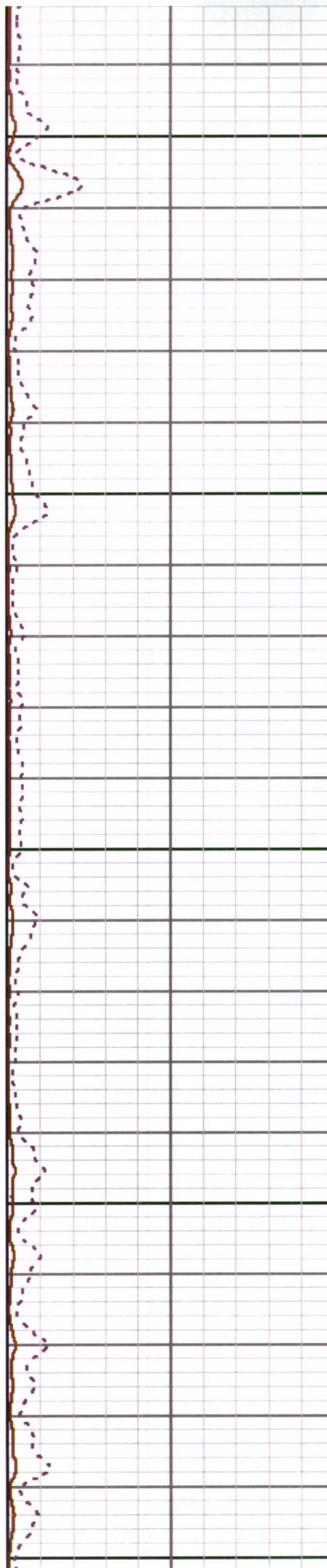
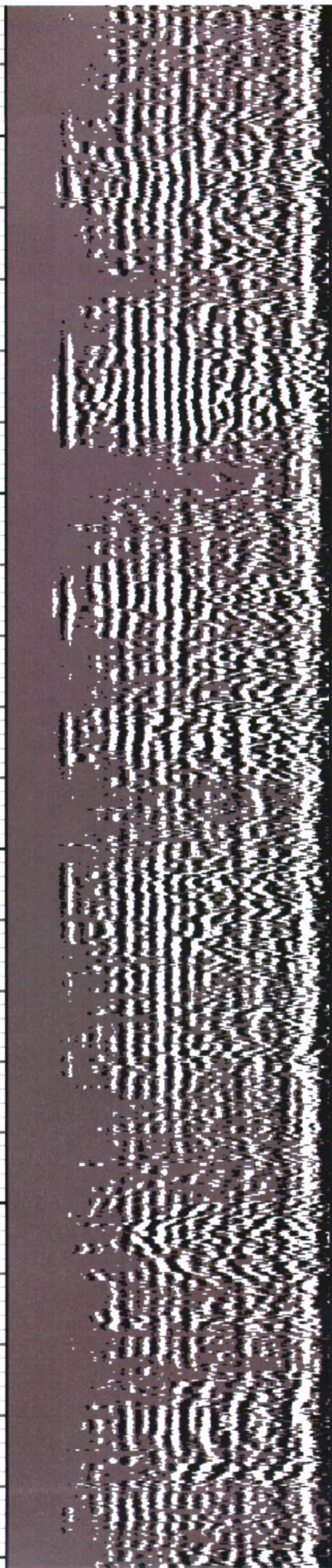




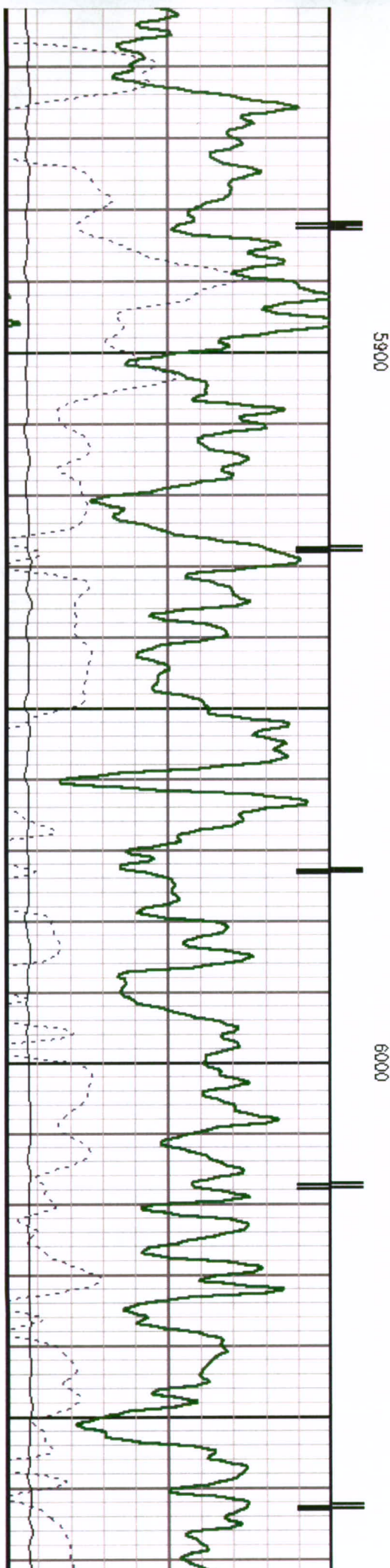
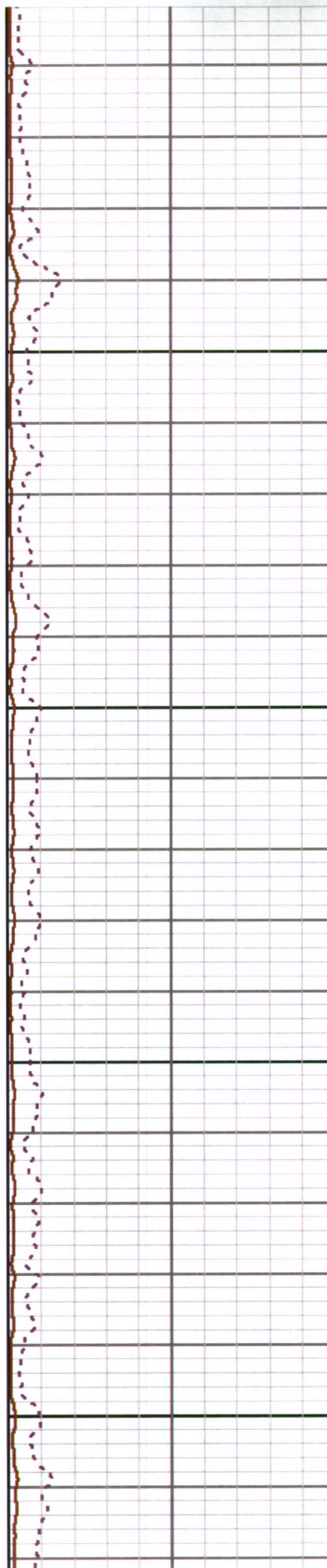
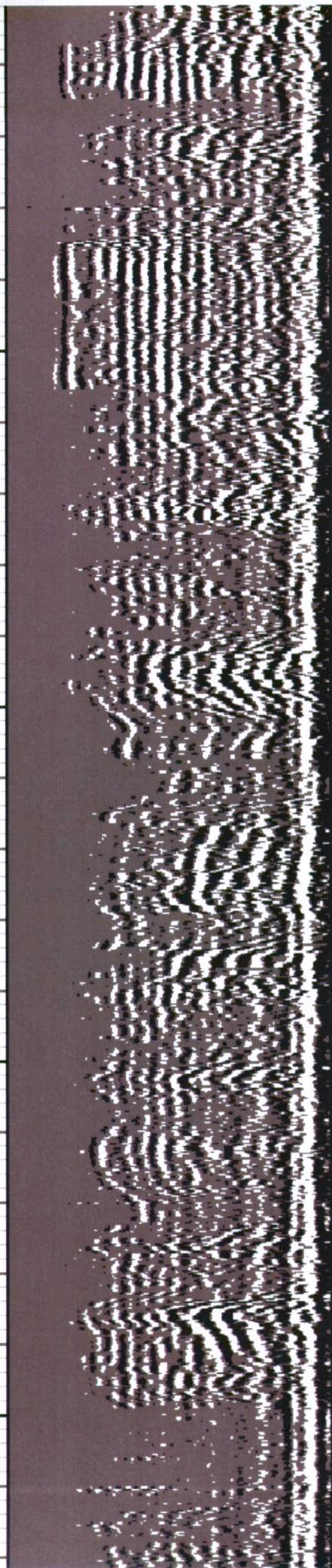




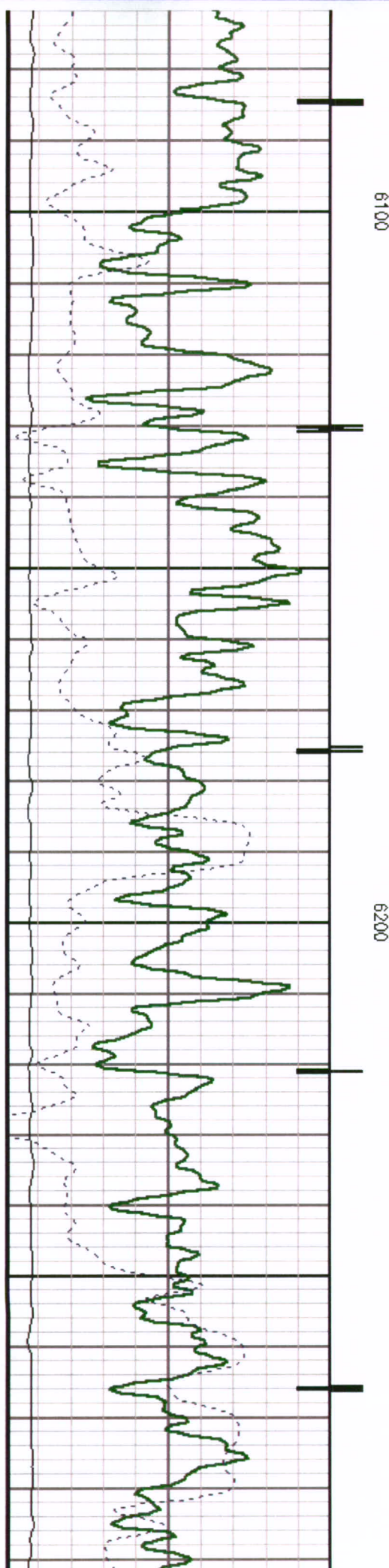
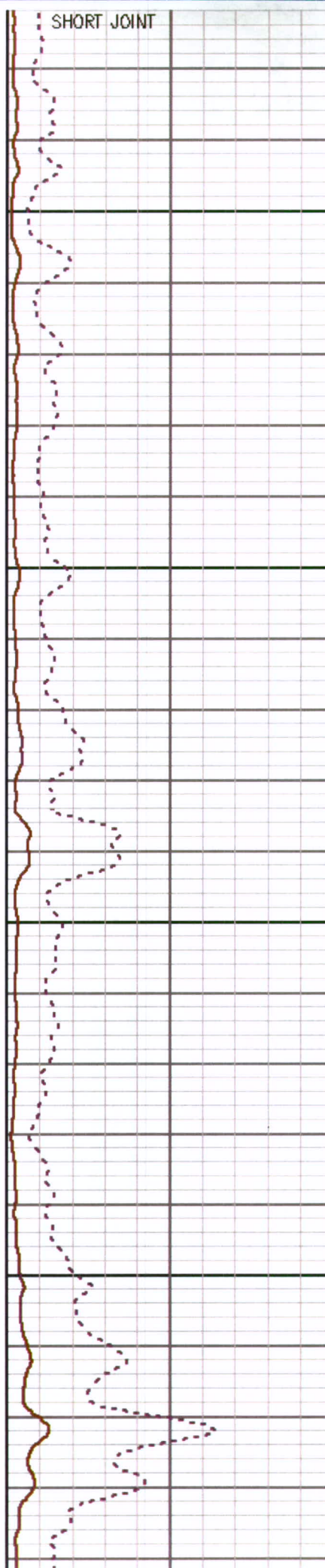
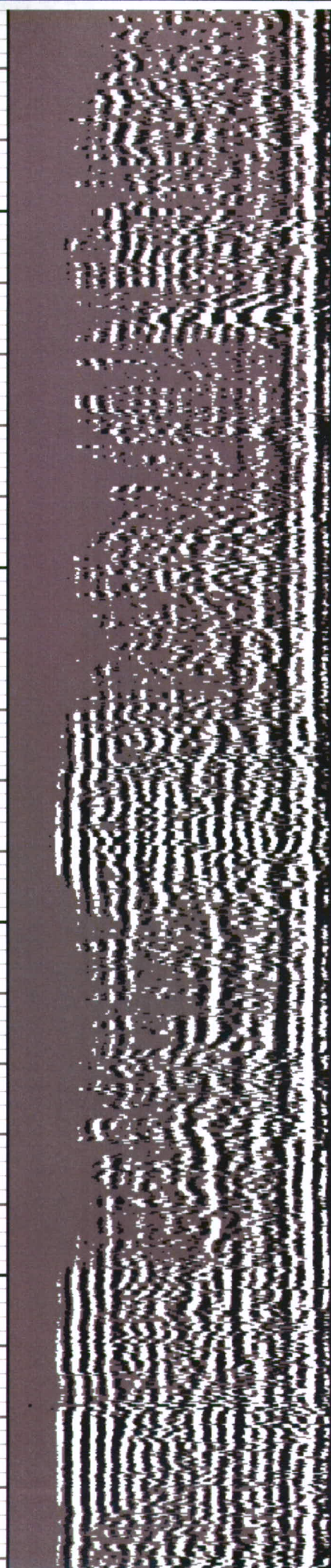




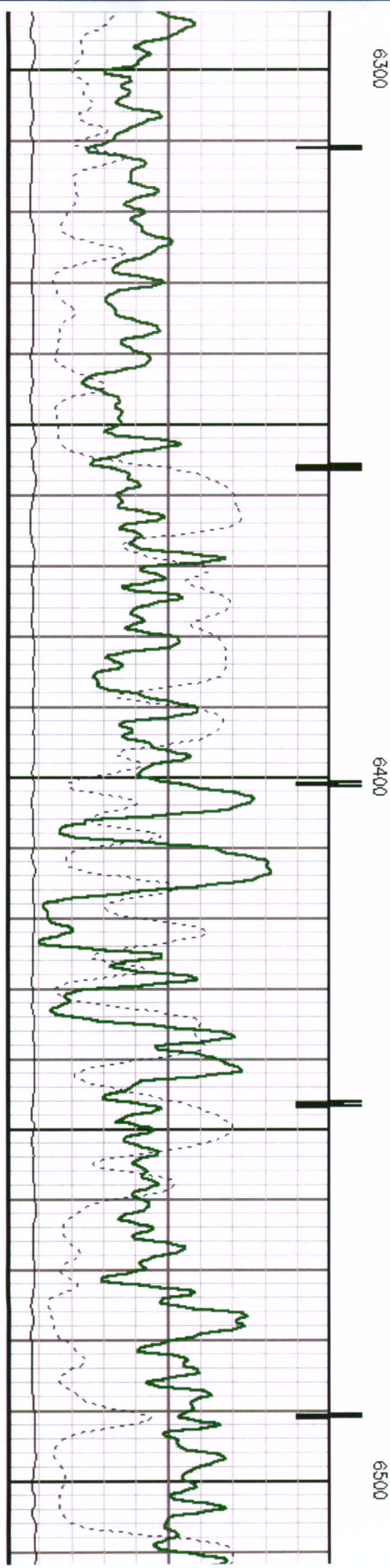
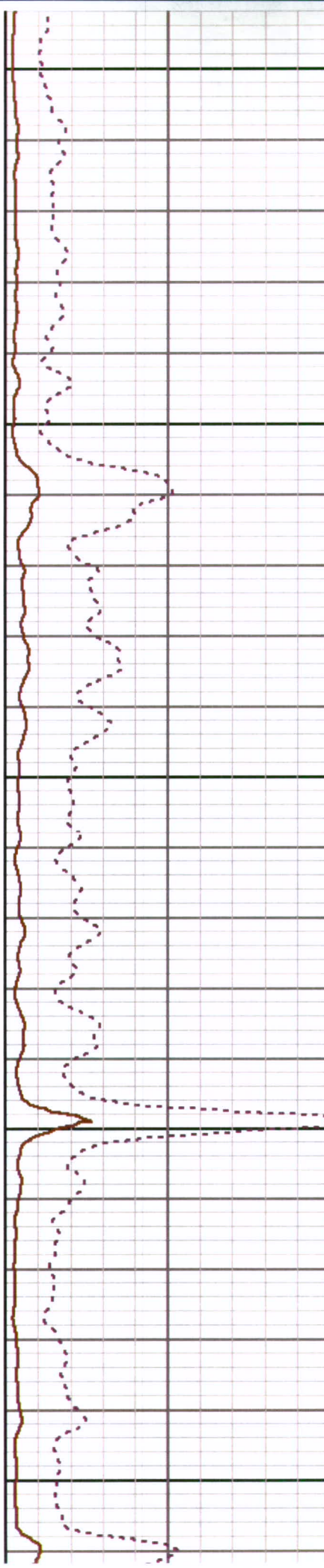
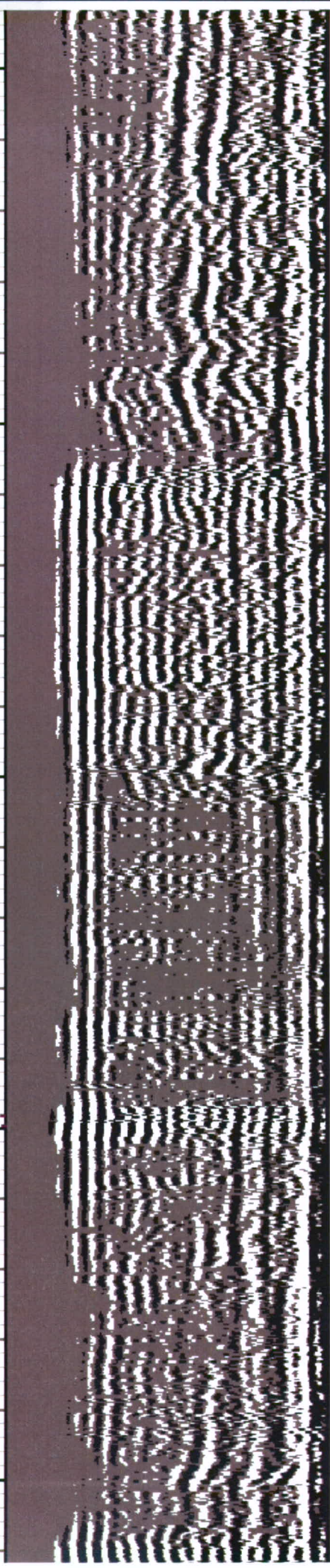




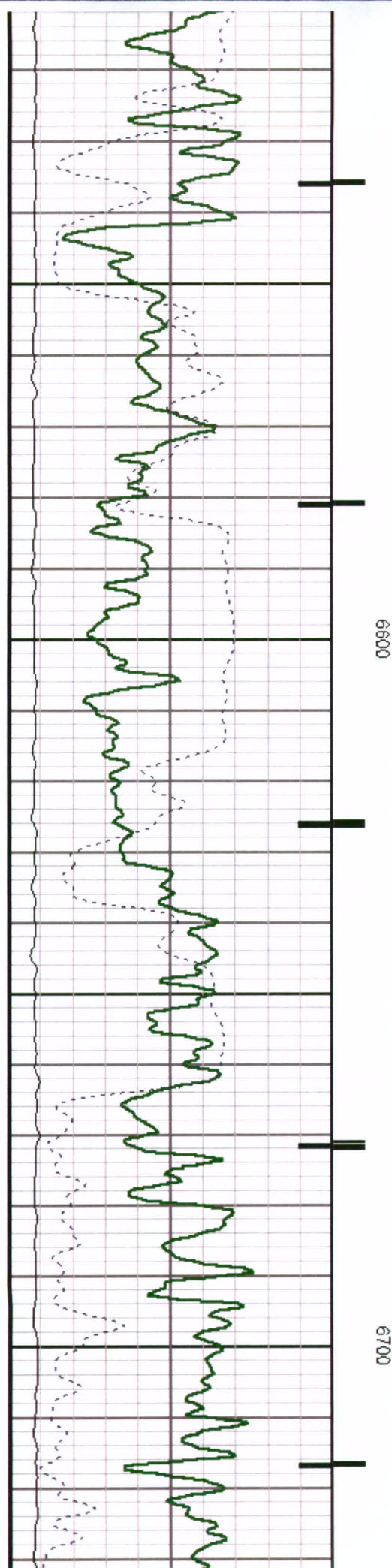
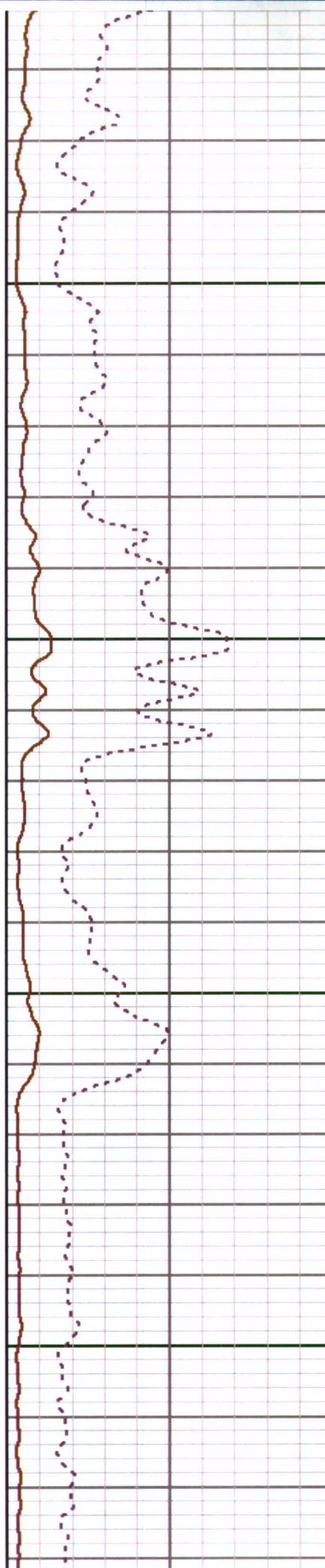
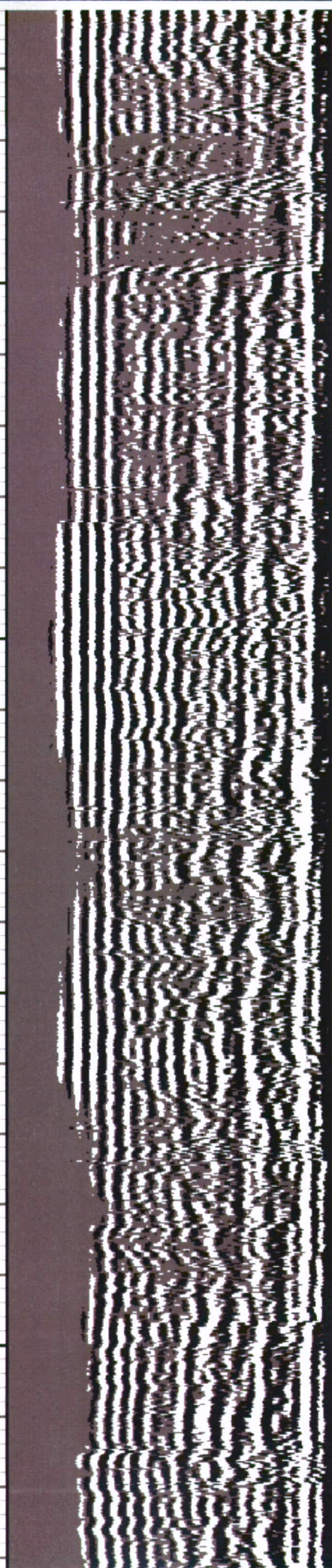




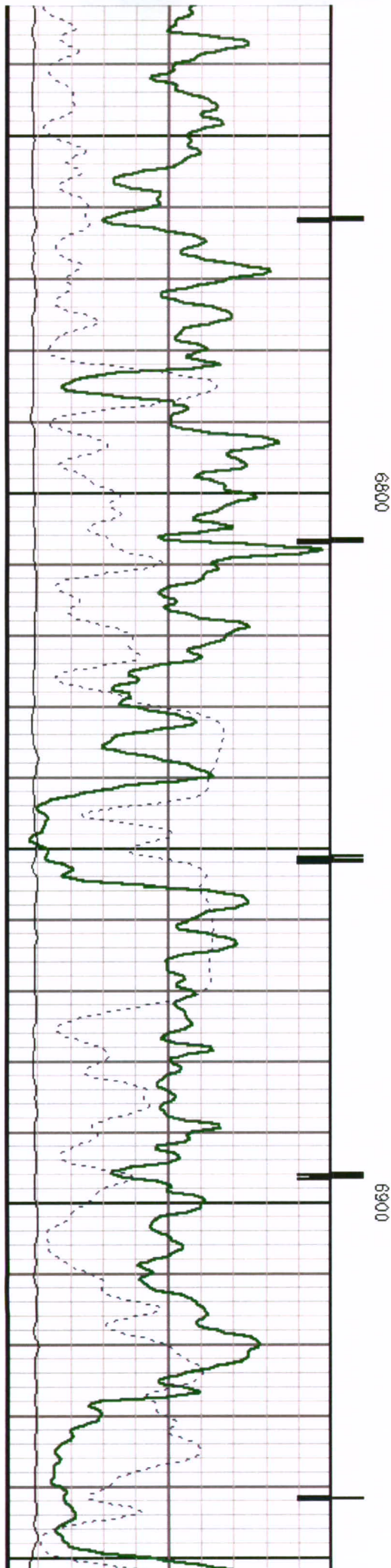
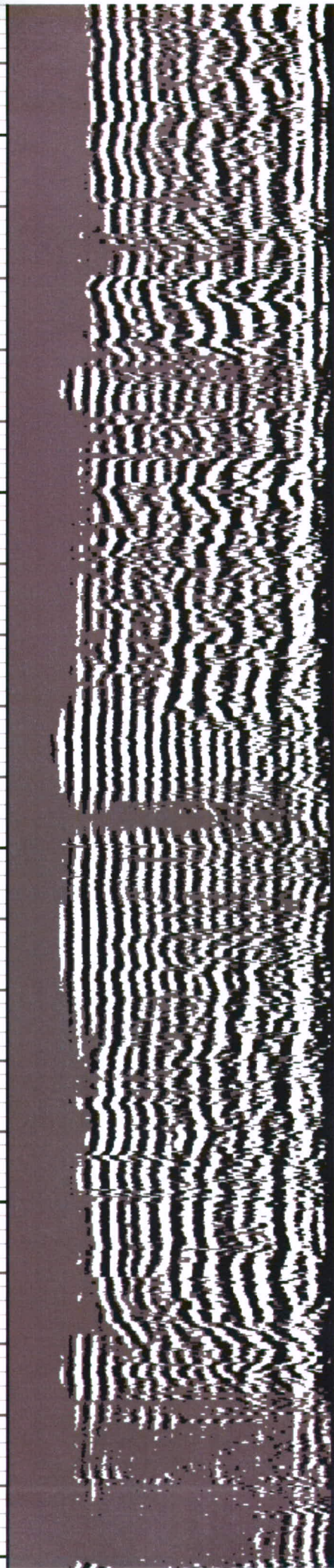




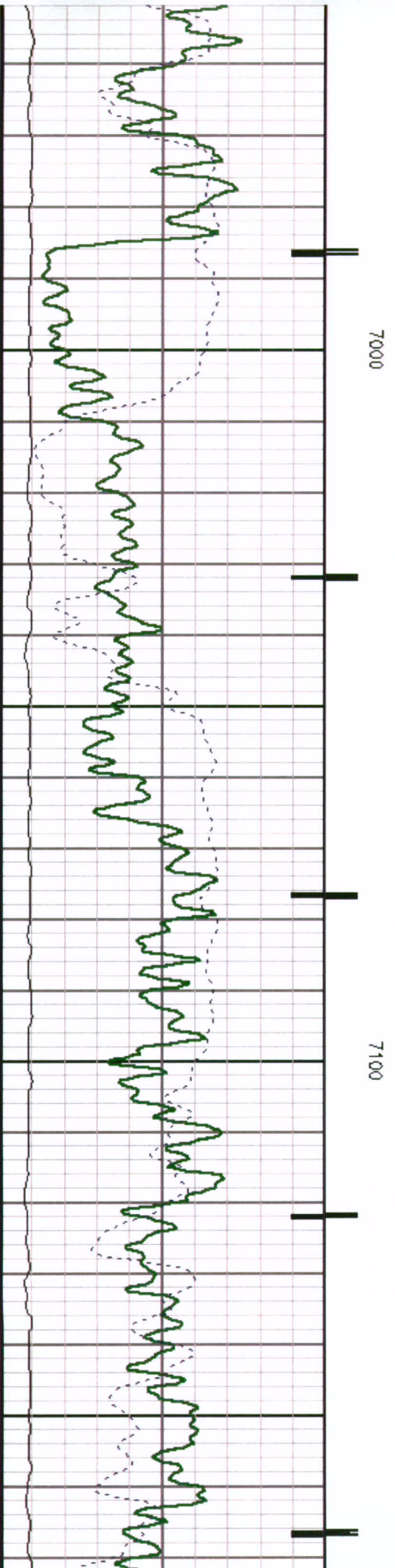
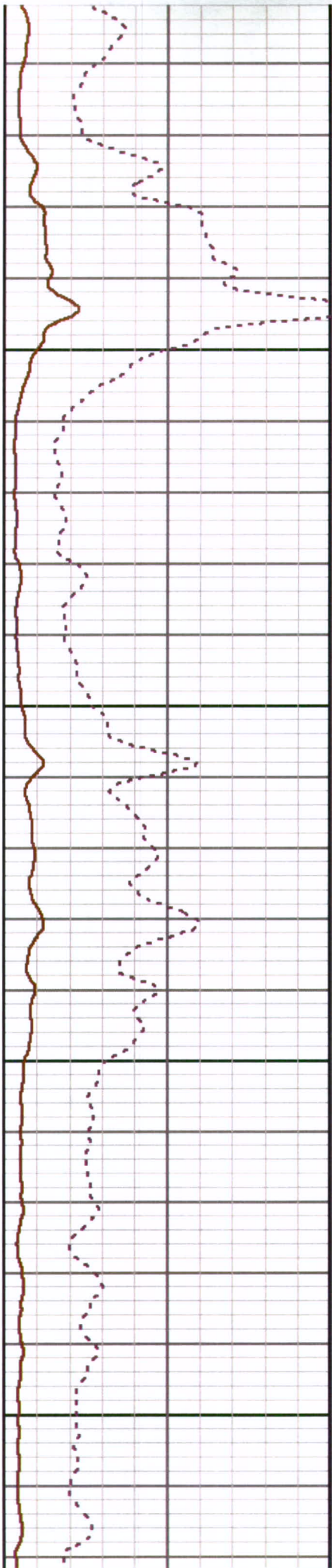
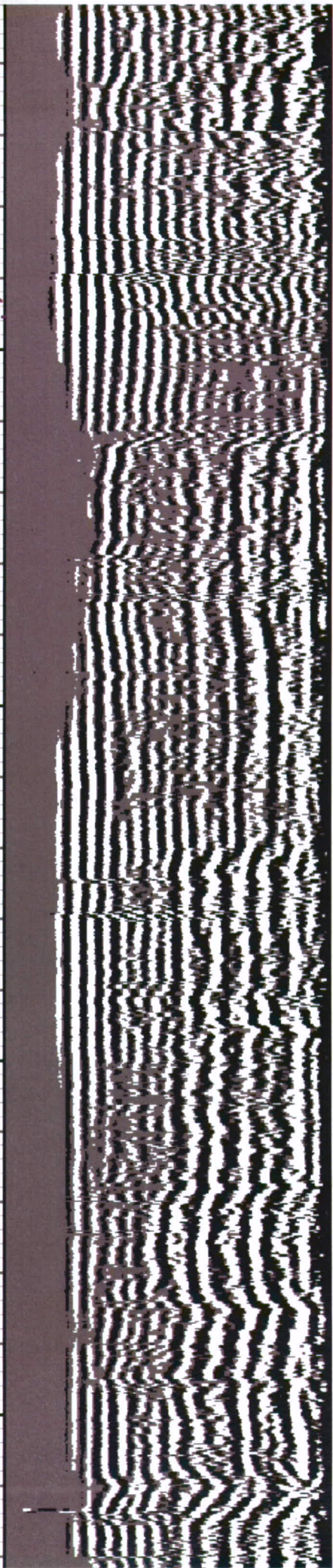




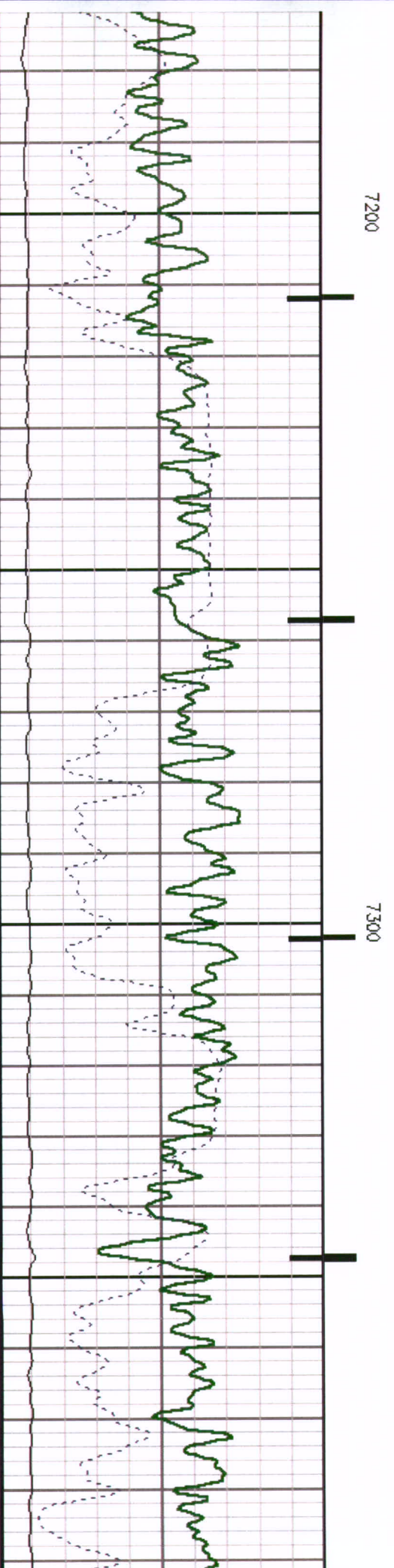
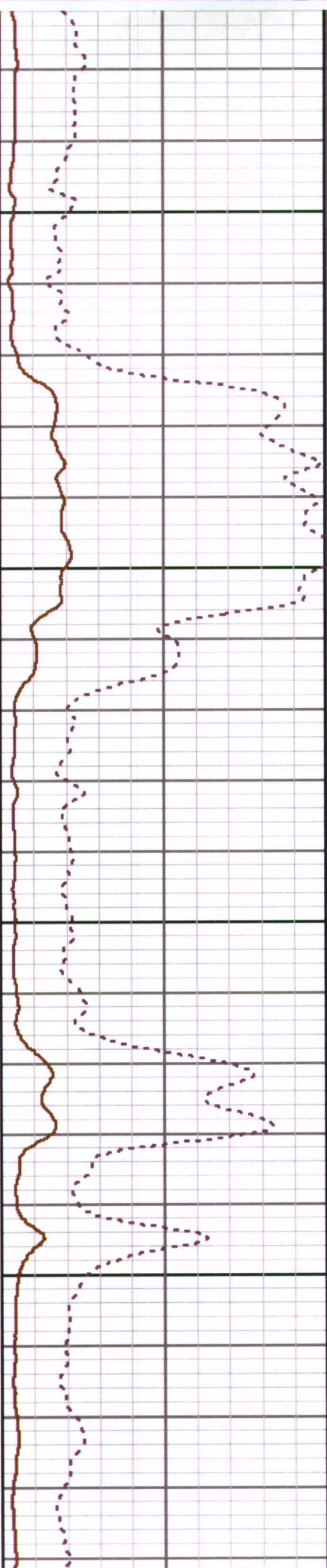
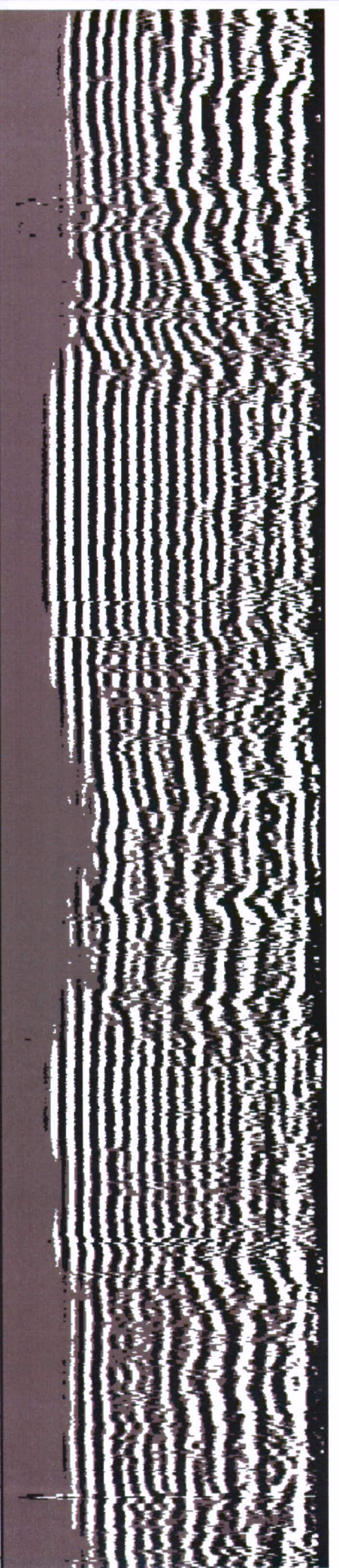




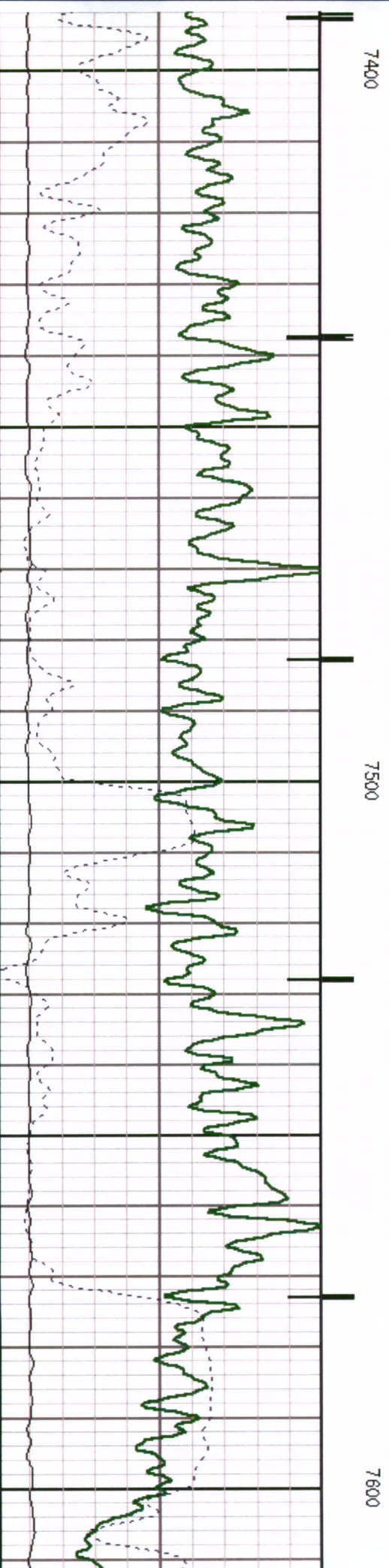
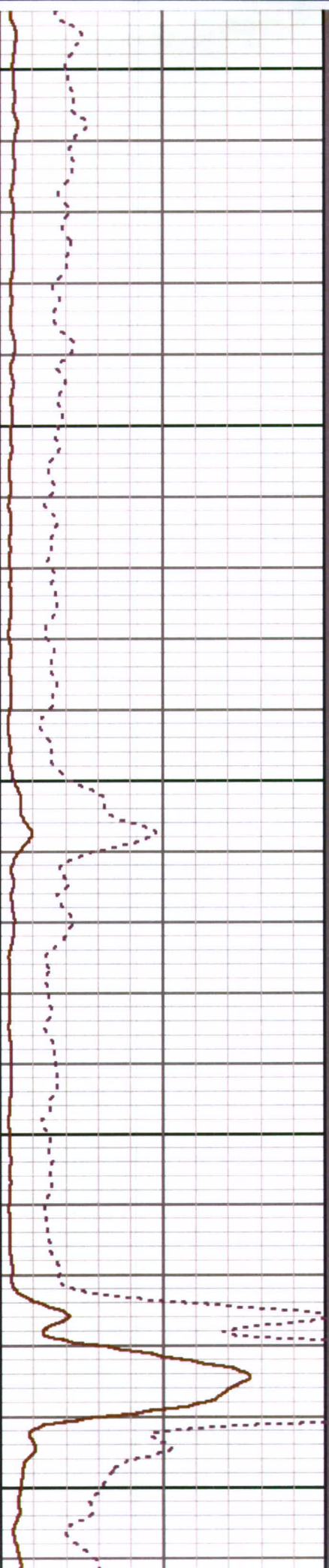
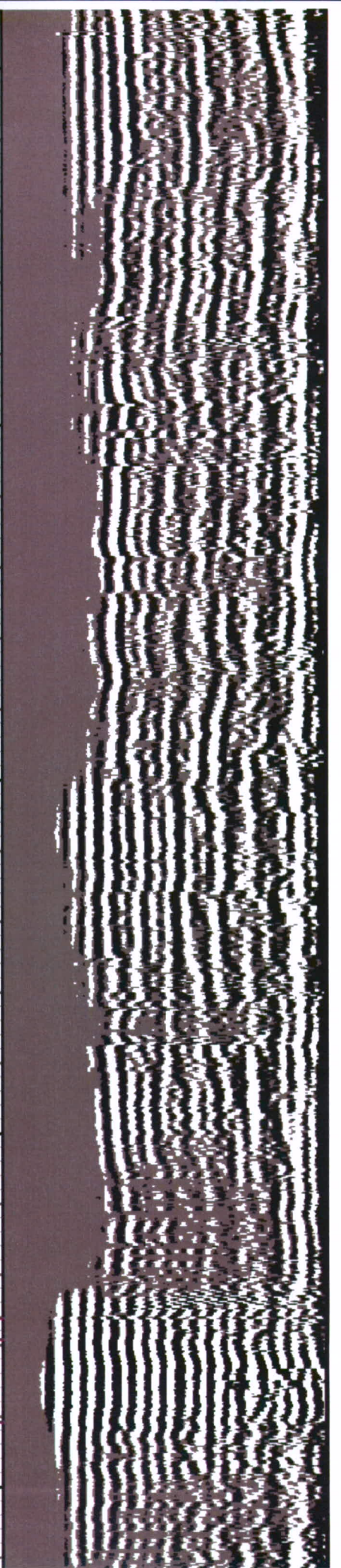




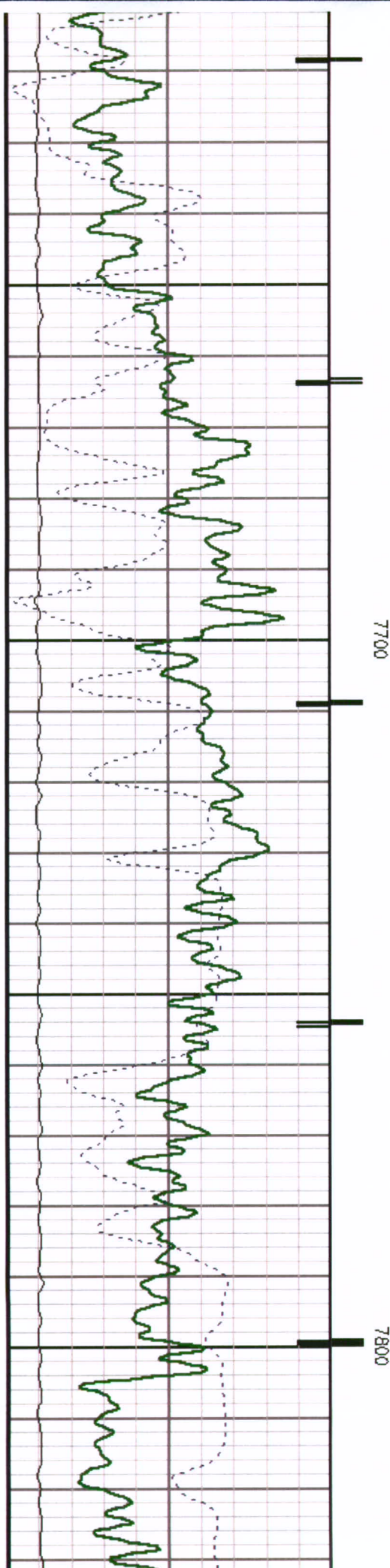
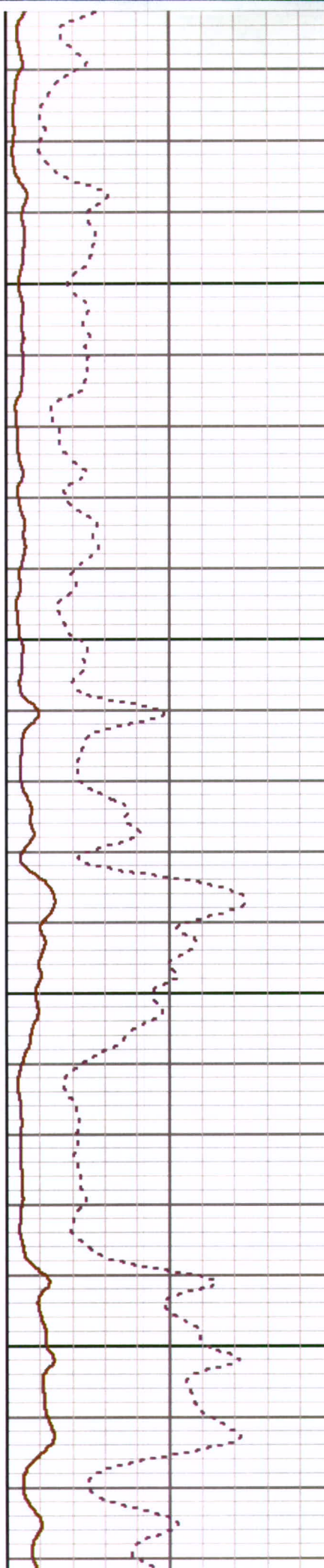
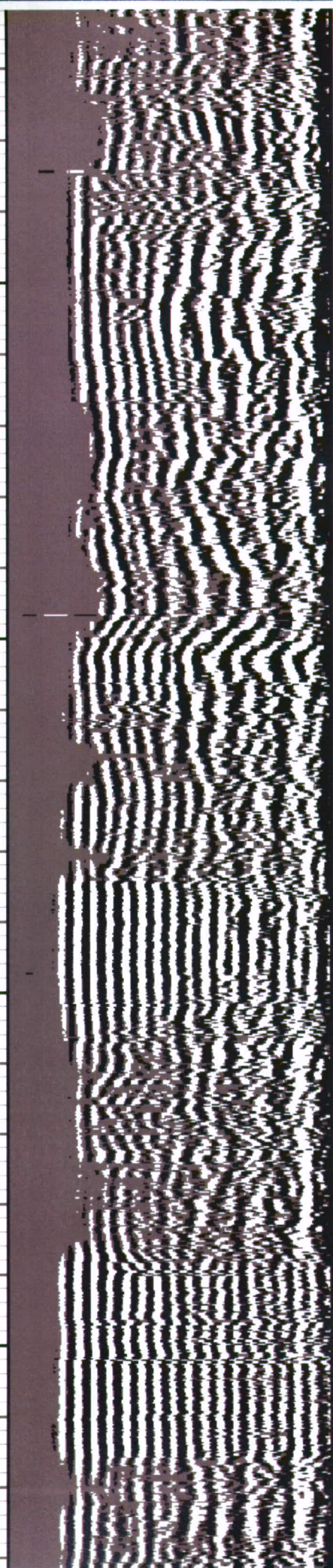




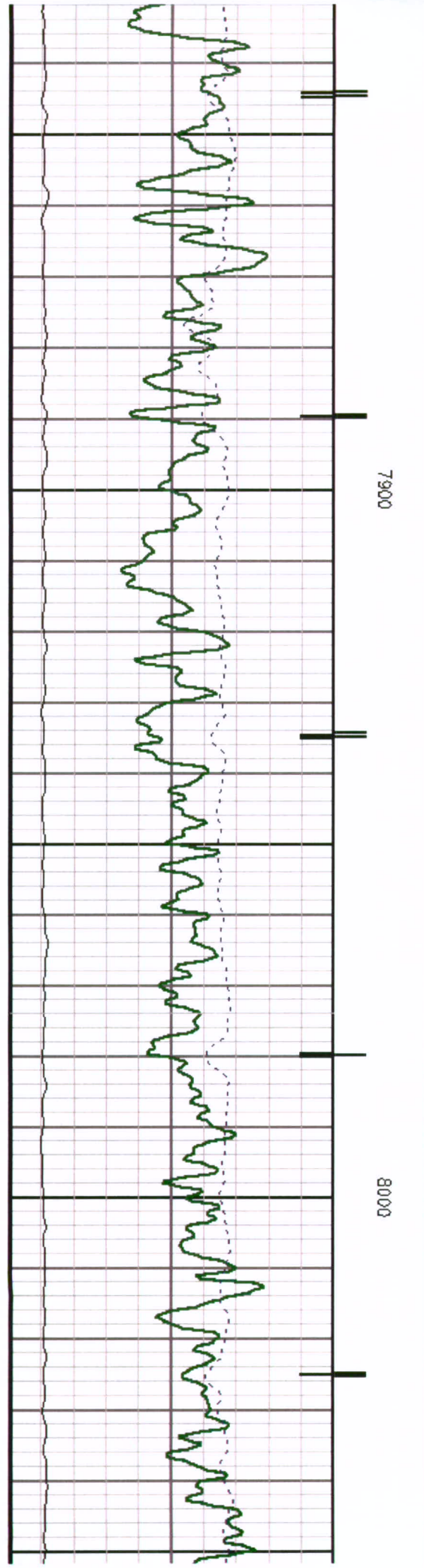
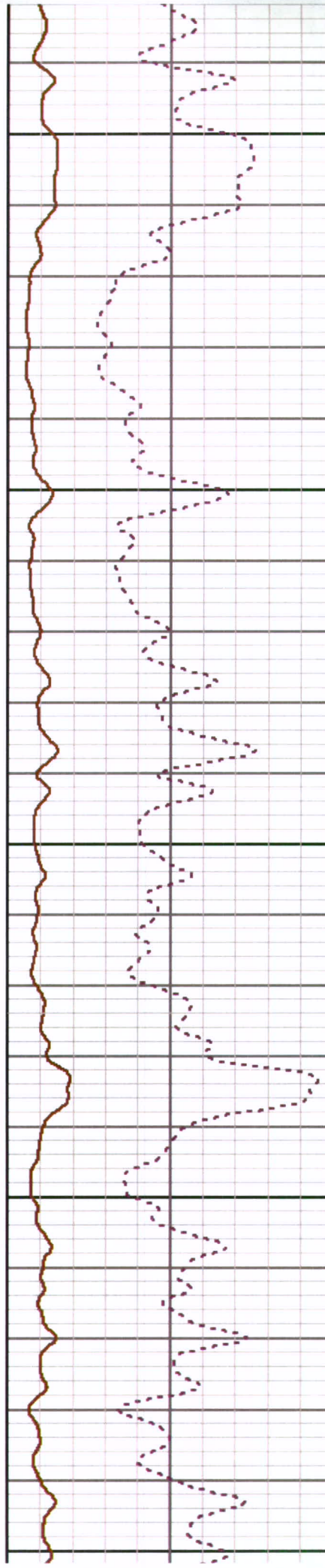
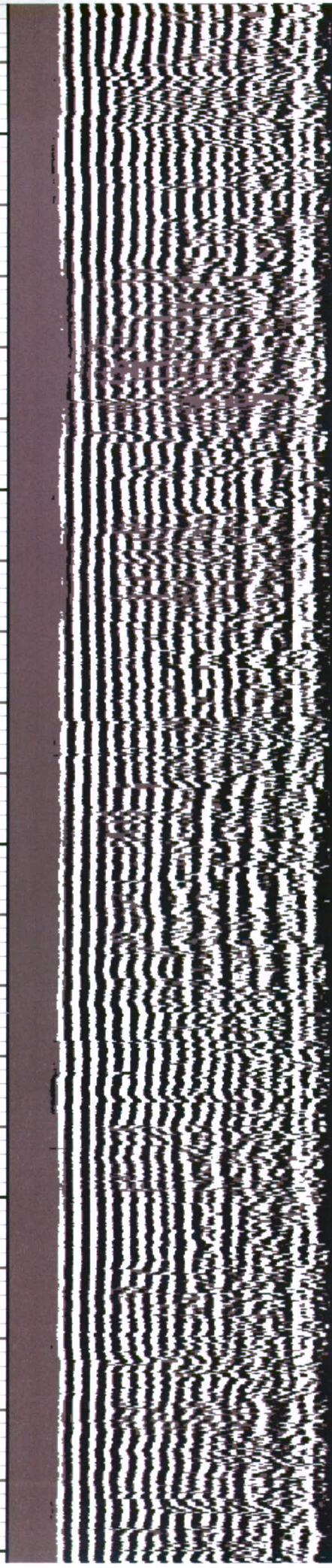




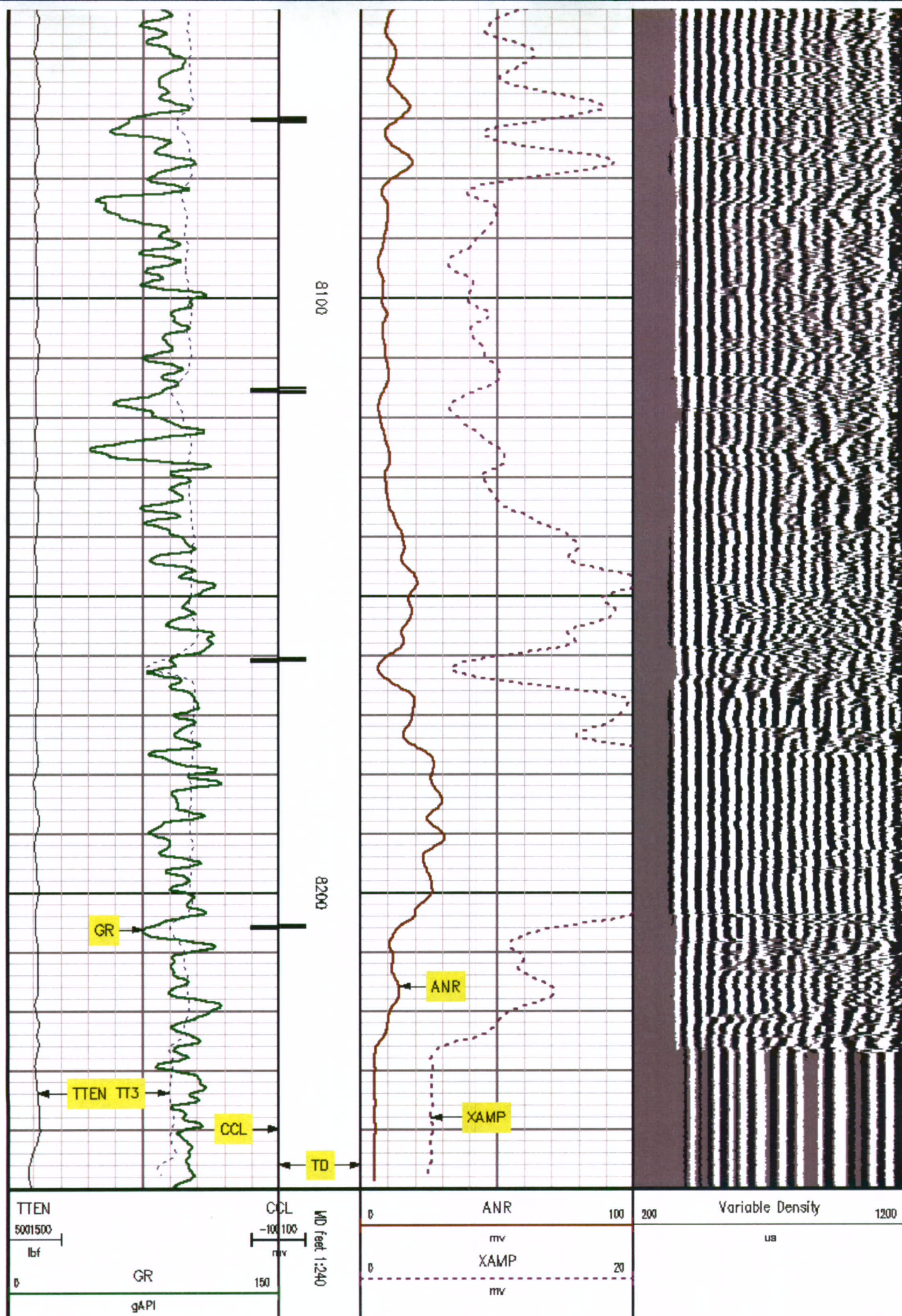














280	TT3	180		
	u sec			

## MAIN SECTION SECONDARY PRESENTATION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	332.187	u sec	20.563	8264.000
RAL	Amp Gate Start Near	215.678	u sec	20.563	8264.000
RAL	Amp Gate Start Radial	215.678	u sec	20.563	8264.000
RAL	Amp Gate Width Far	25.000	u sec	20.563	8264.000
RAL	Amp Gate Width Near	25.000	u sec	20.563	8264.000
RAL	Amp Gate Width Radial	25.000	u sec	20.563	8264.000
RAL	casing od	5.500	inches	20.563	8264.000
RAL	casing wt	15.500	lbm/ft	20.563	8264.000
RAL	FB Start Far	307.187	u sec	20.563	8264.000
RAL	FB Start Near	190.678	u sec	20.563	8264.000
RAL	FB Start Radial	190.678	u sec	20.563	8264.000
RAL	FB Thresh Far	10.000	mv	20.563	8264.000
RAL	FB Thresh Near	4.000	mv	20.563	8264.000
RAL	FB Thresh Radial	4.000	mv	20.563	8264.000
RAL	Fluid Travel Time	200.000	u sec/ft	20.563	8264.000

### DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-15.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-14.380	AFAR	SIG	TT5			
1426XA	-7.250	OCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					



Created by : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : WILLIAMS PRODUCTION COMPANY

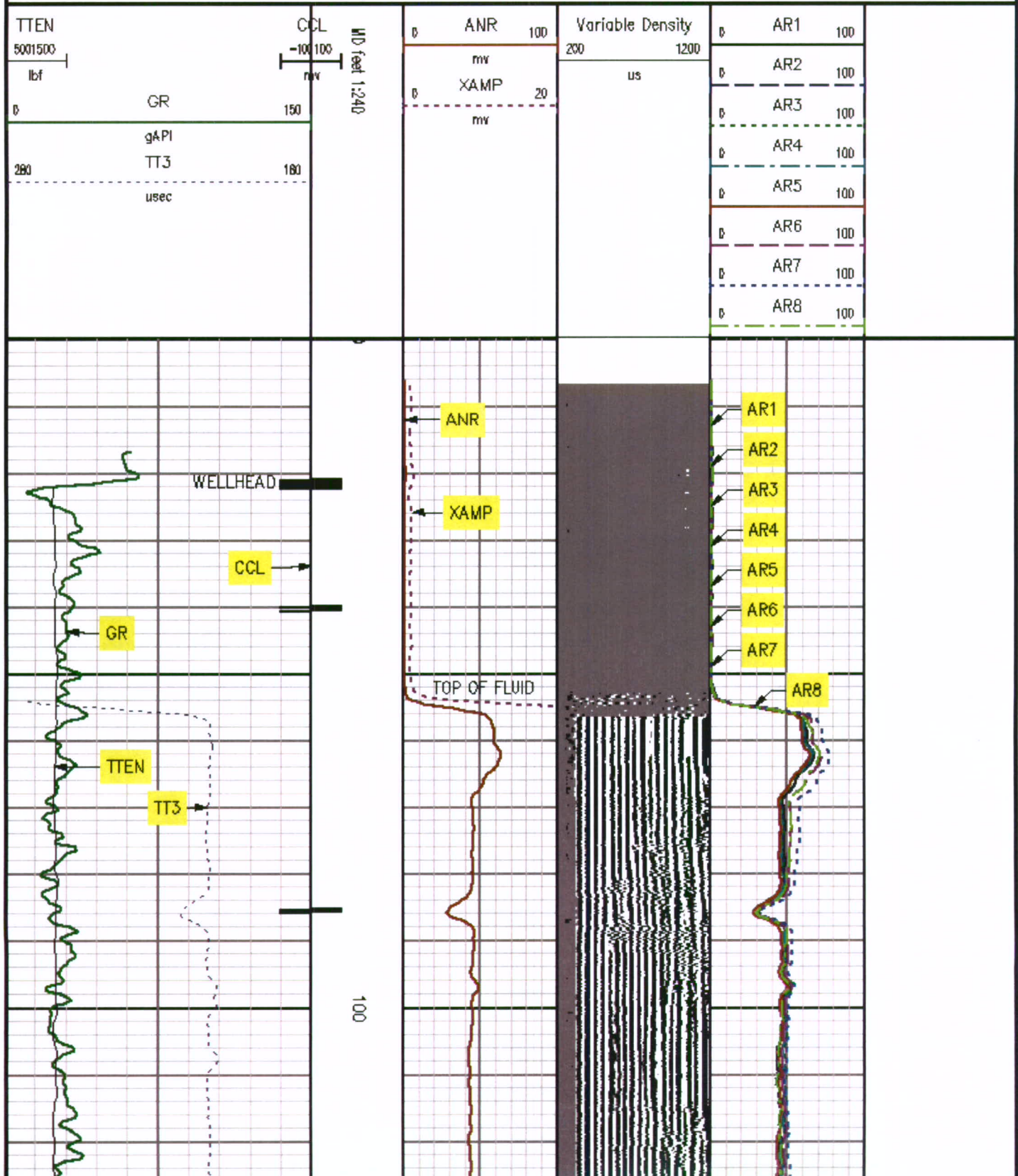
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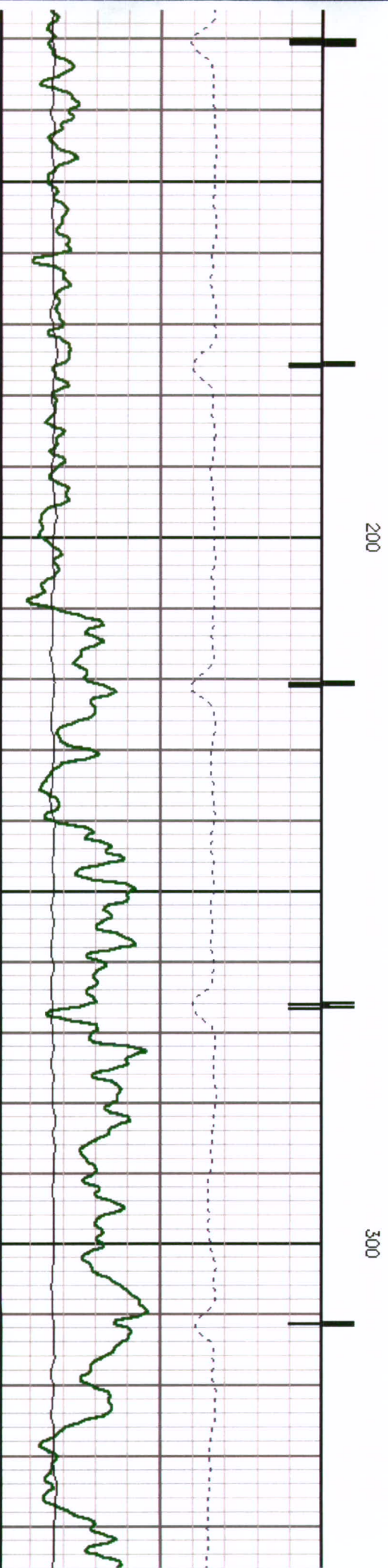
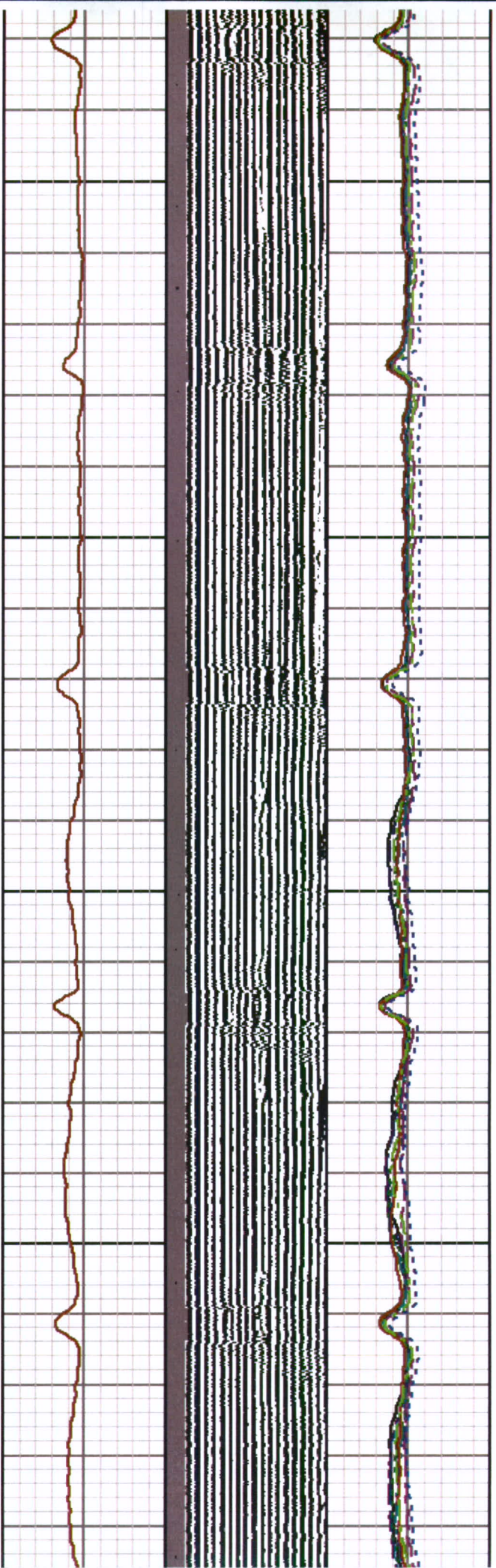
Mode : PlotMgr 5.4.504

Interval : 0.00 - 8250.00 feet UP

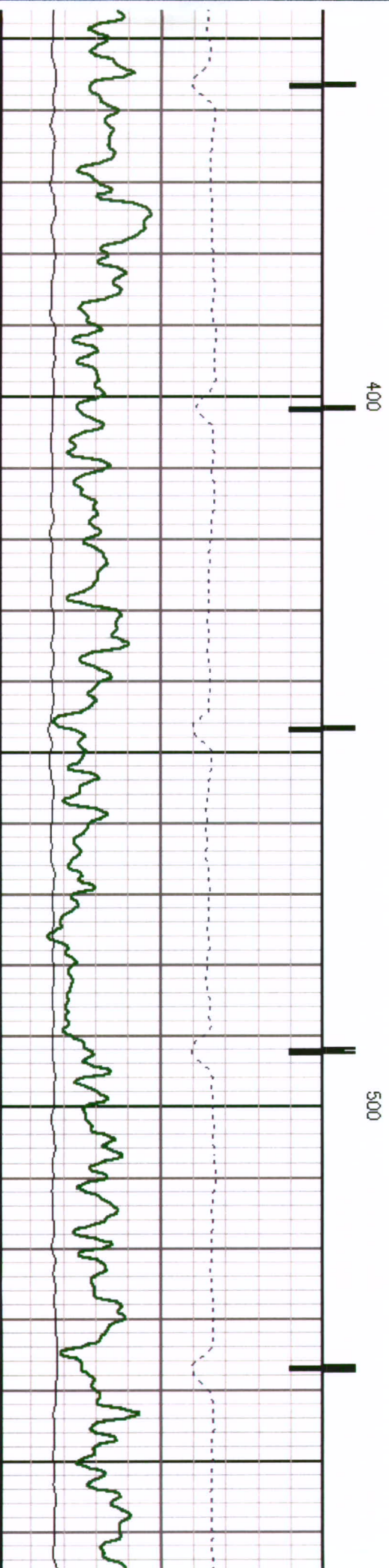
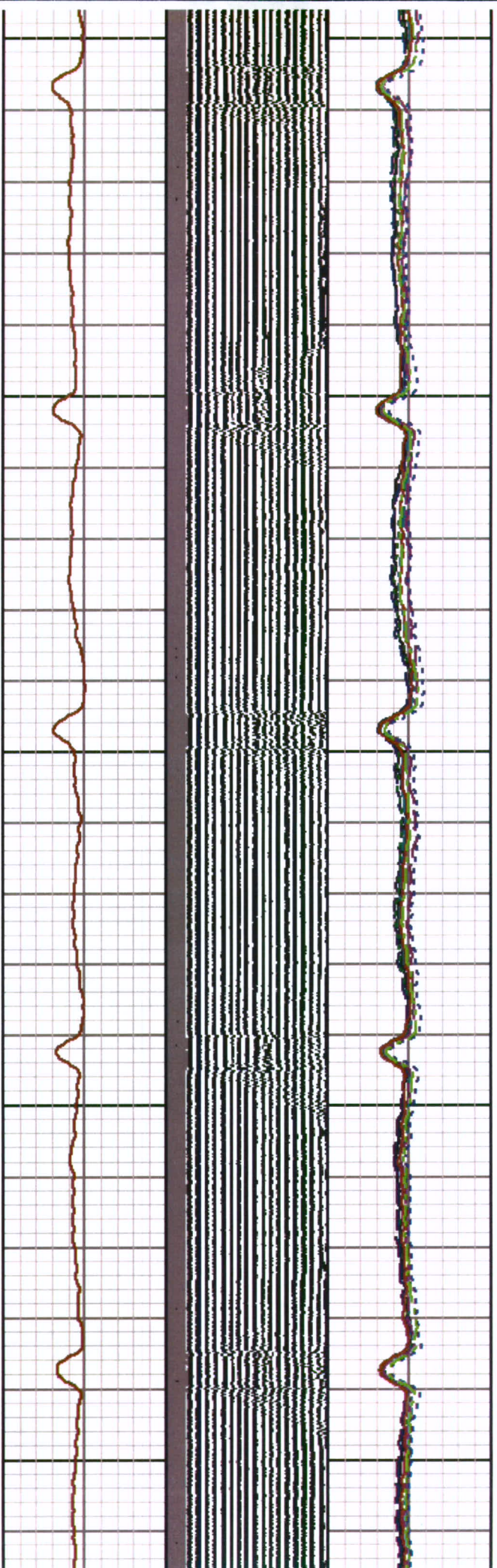
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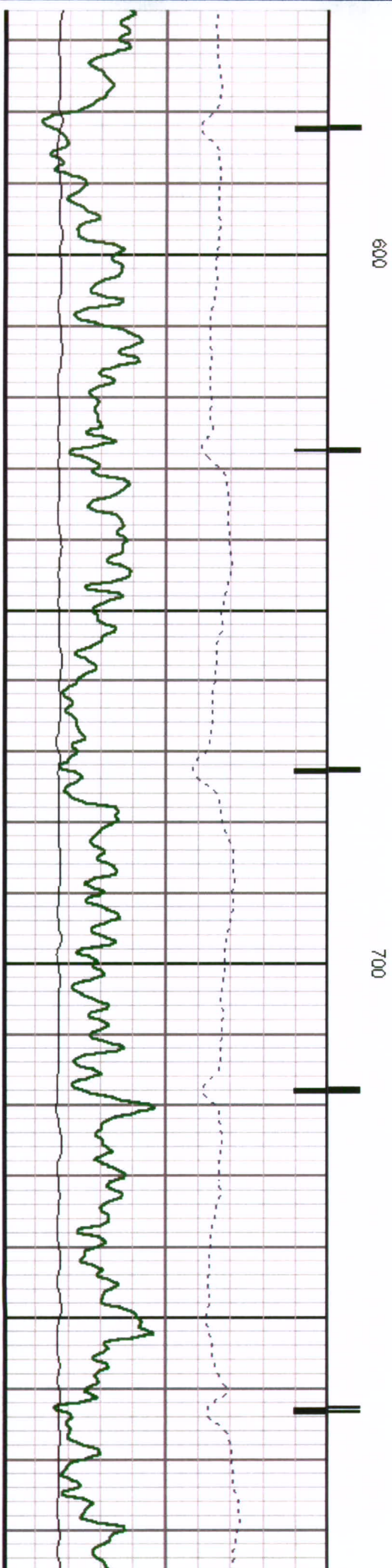
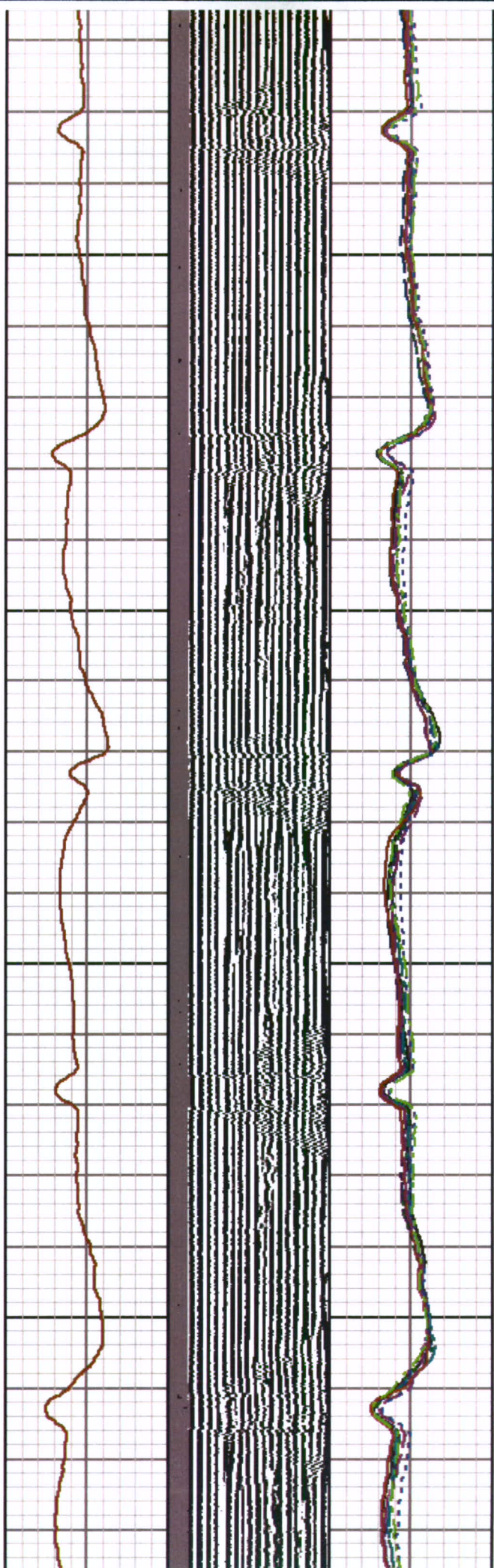




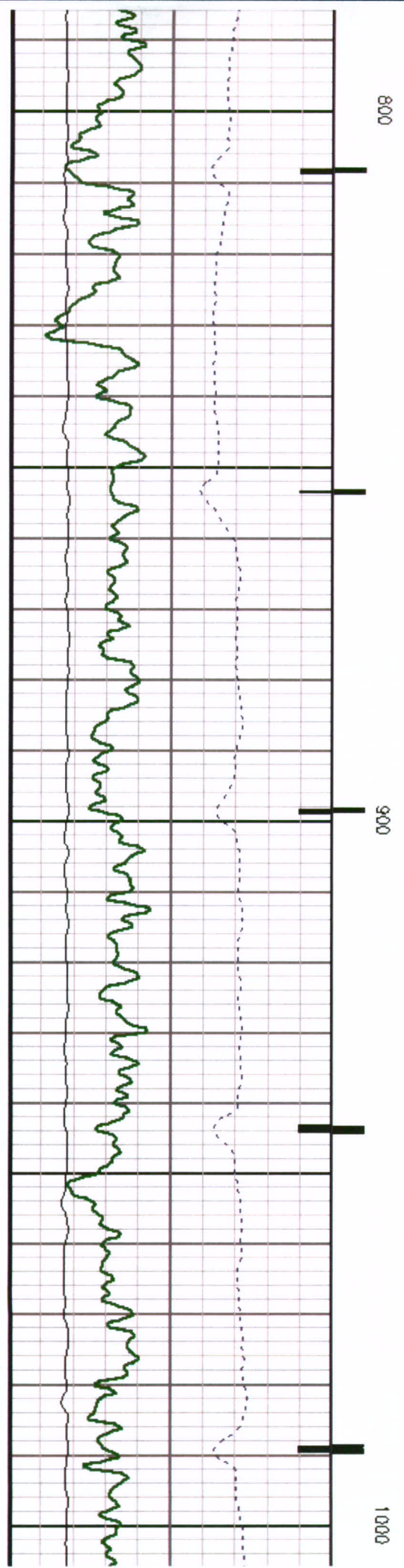
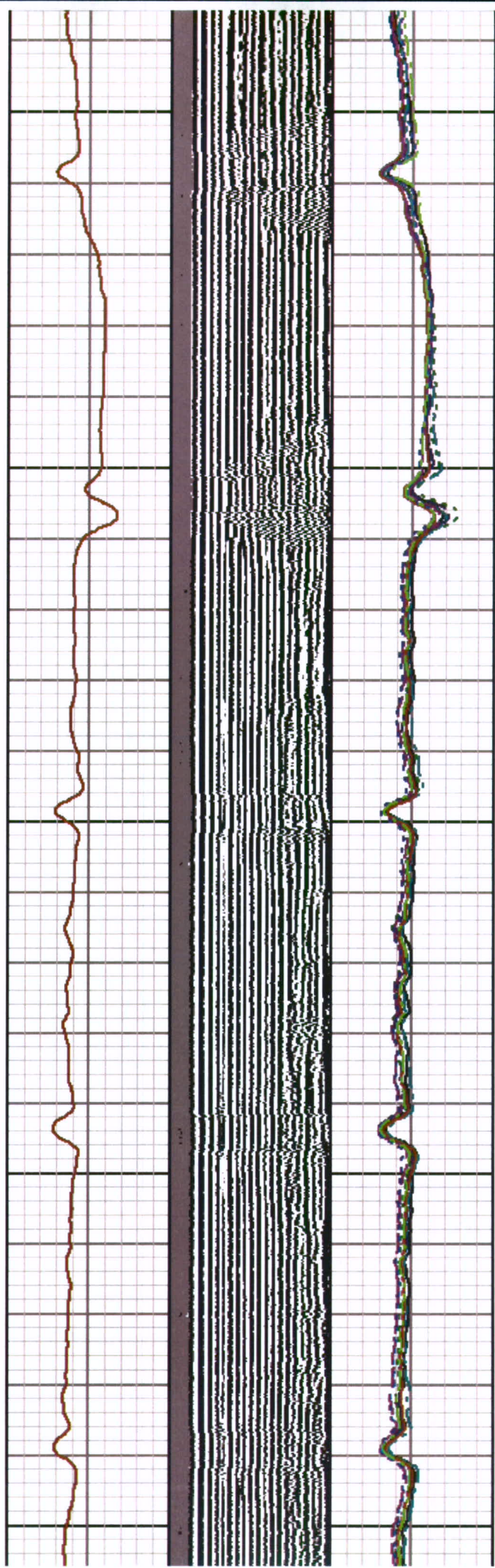




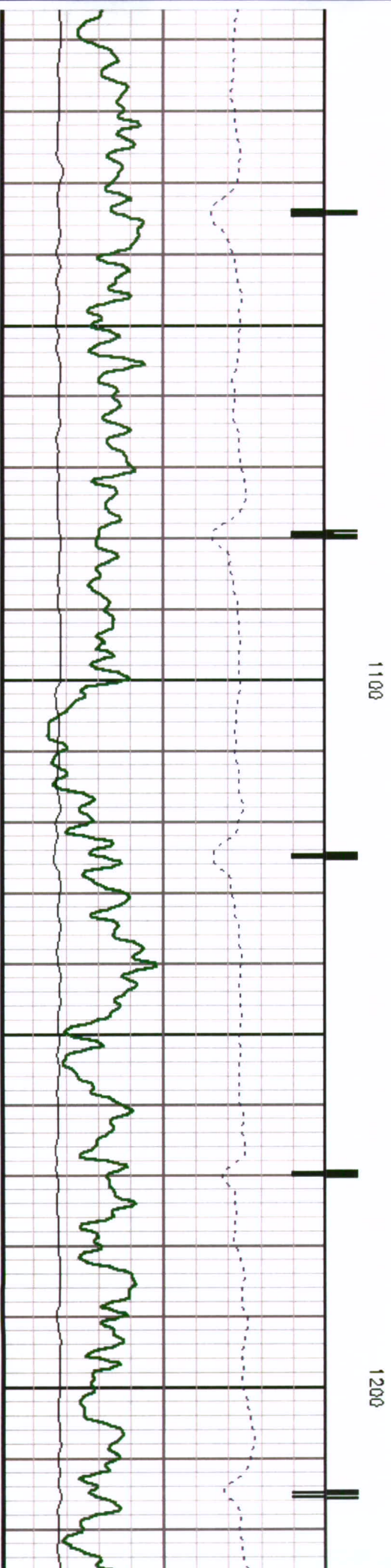
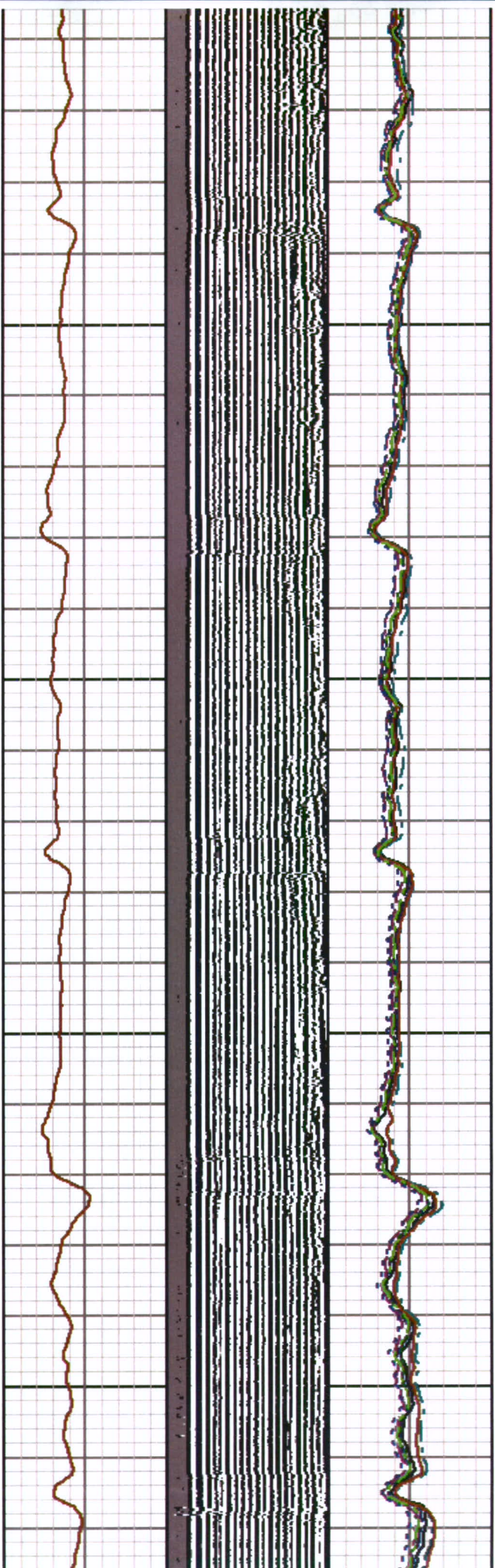




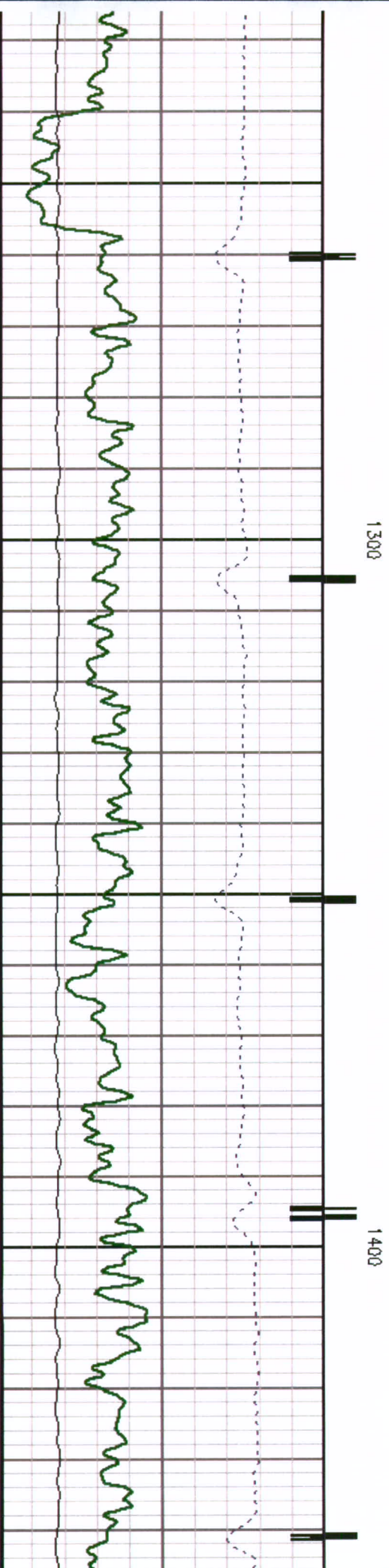
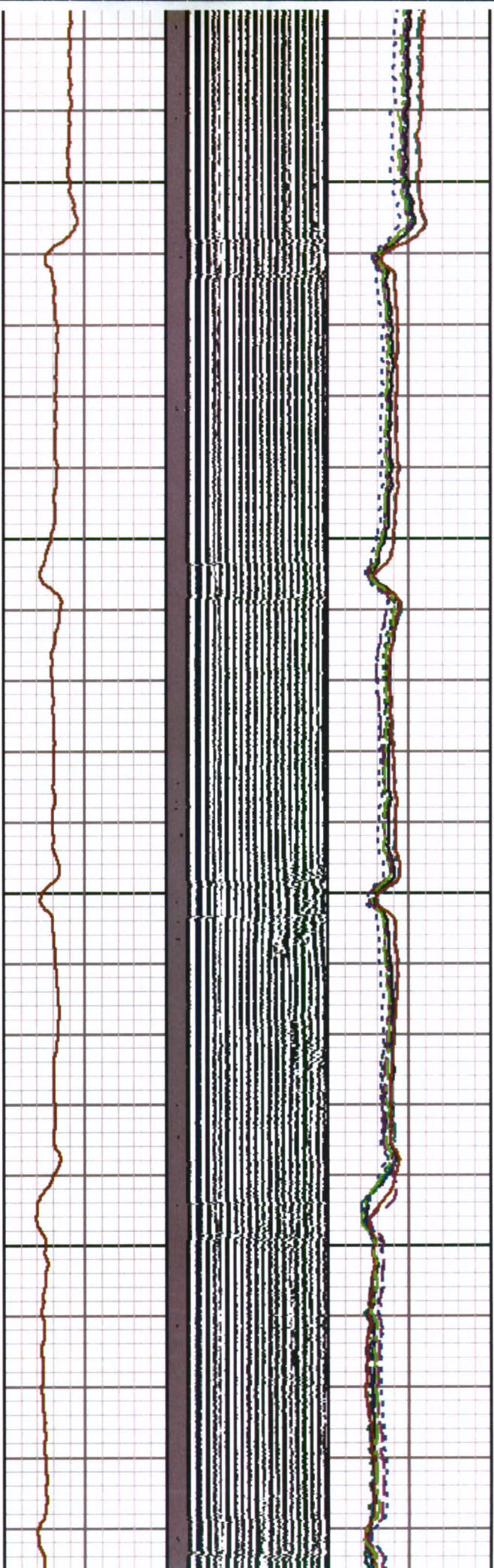




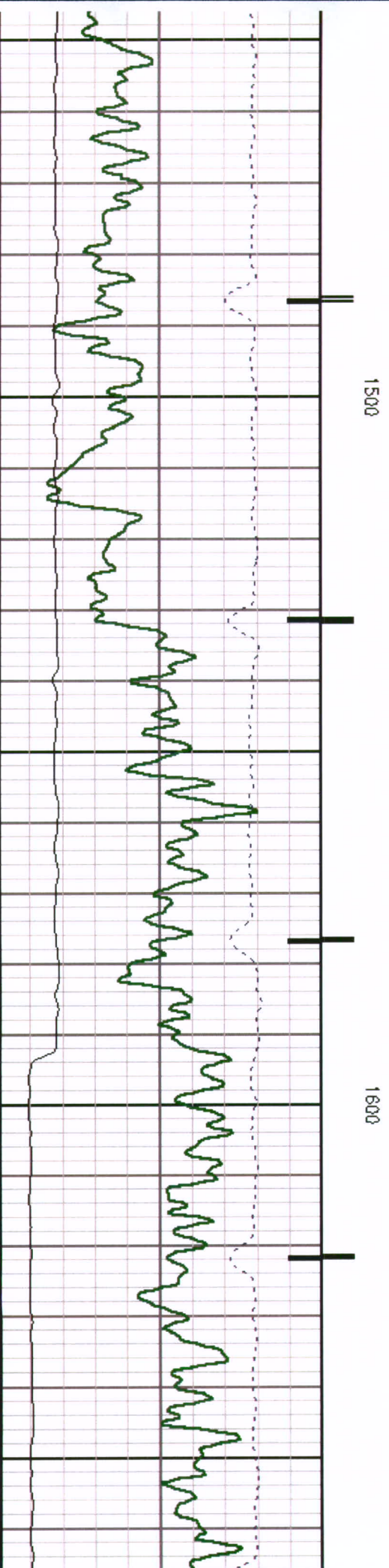
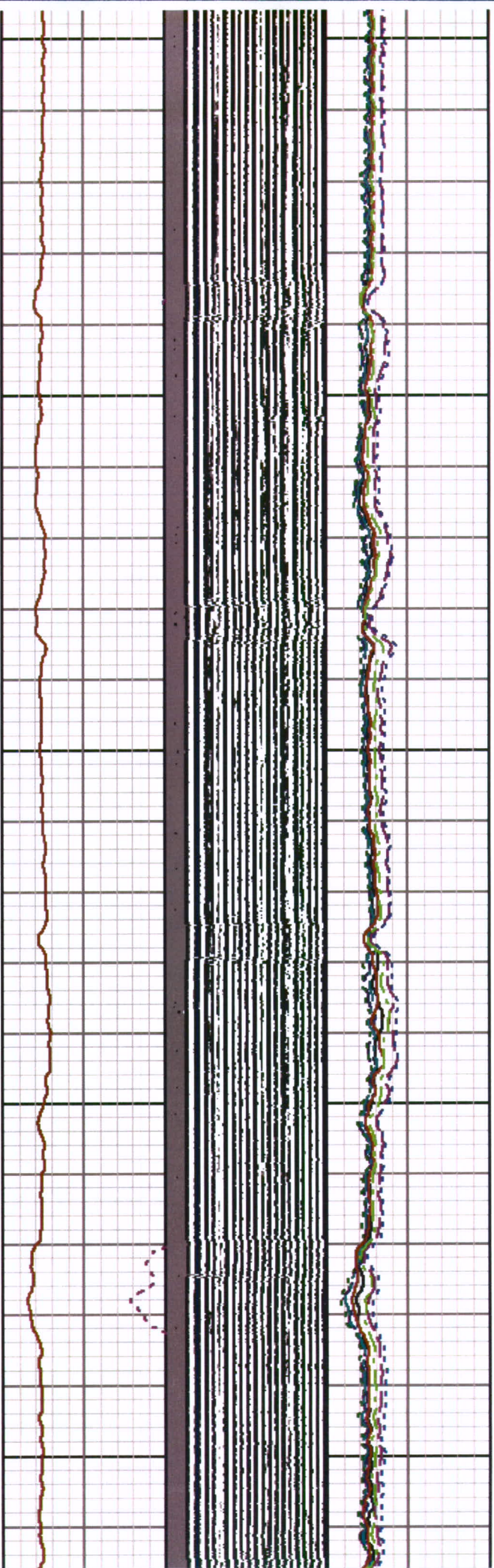




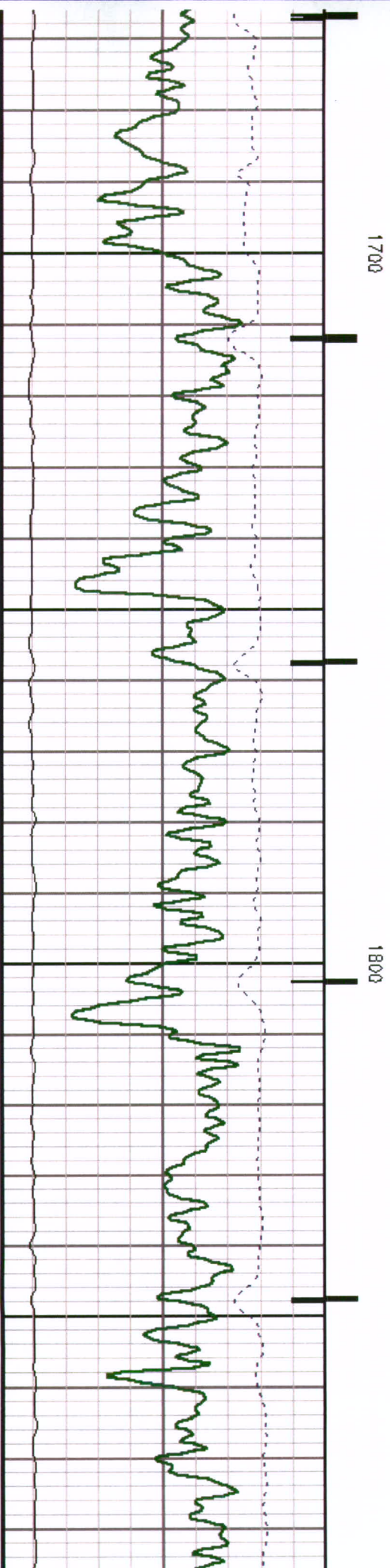
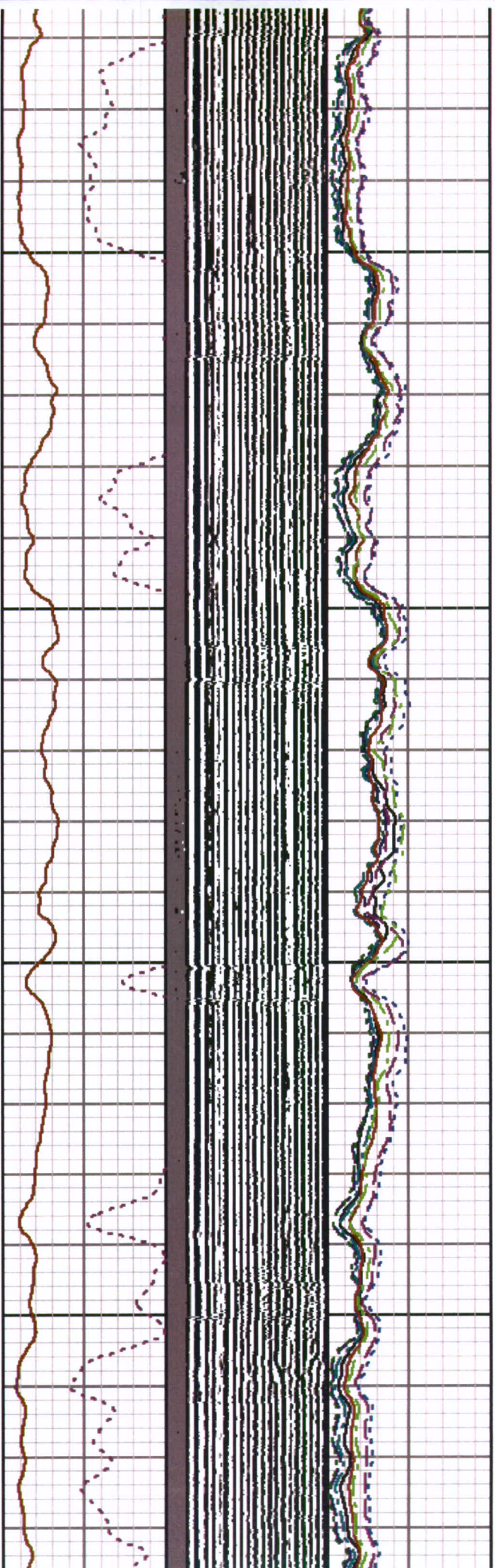




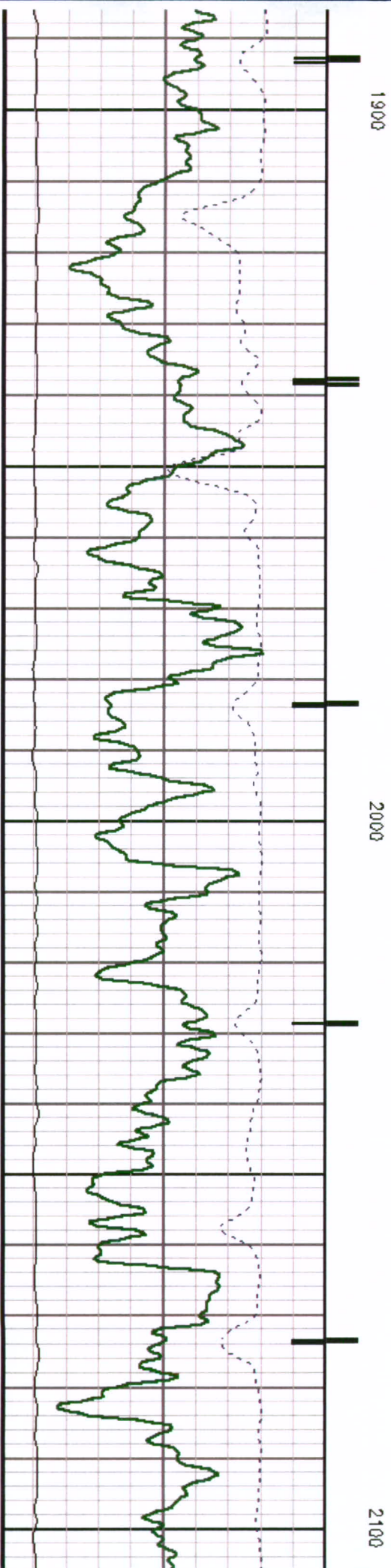
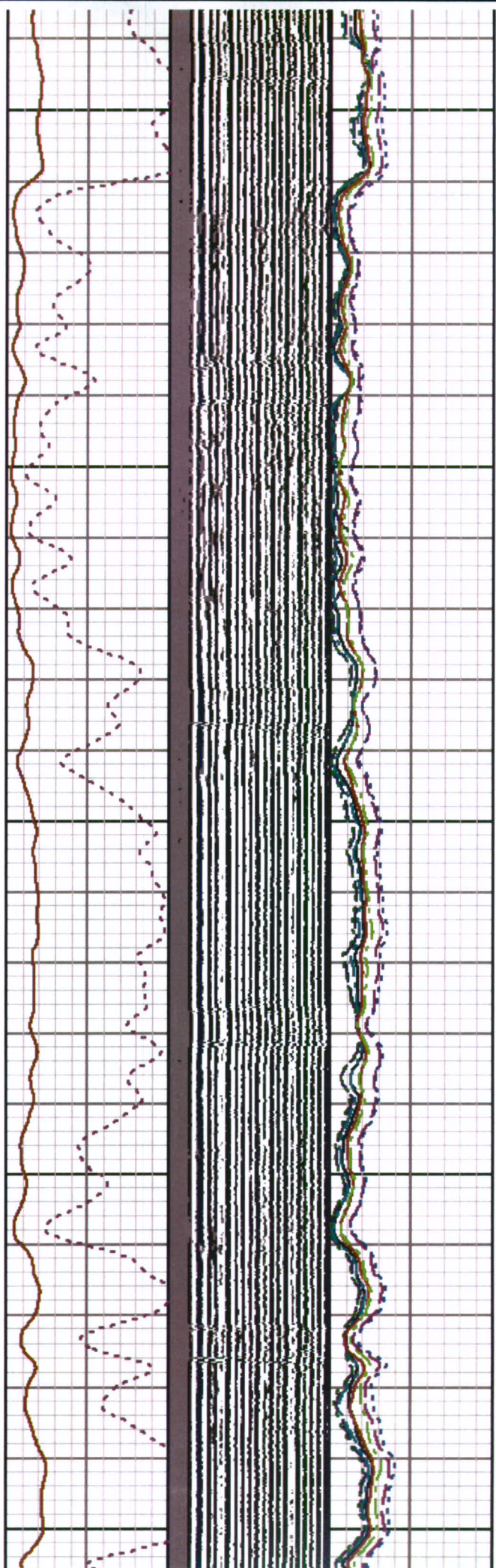




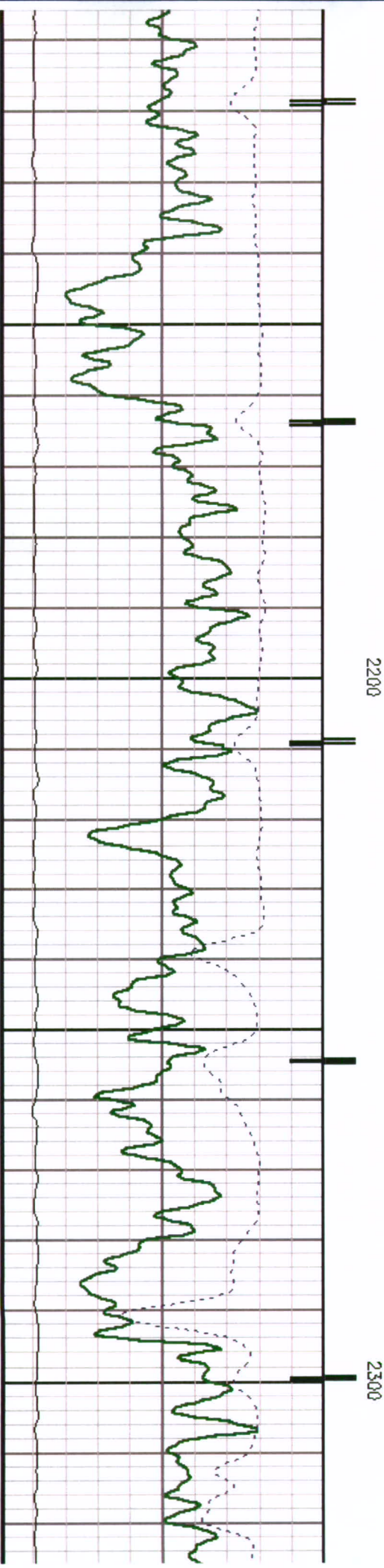
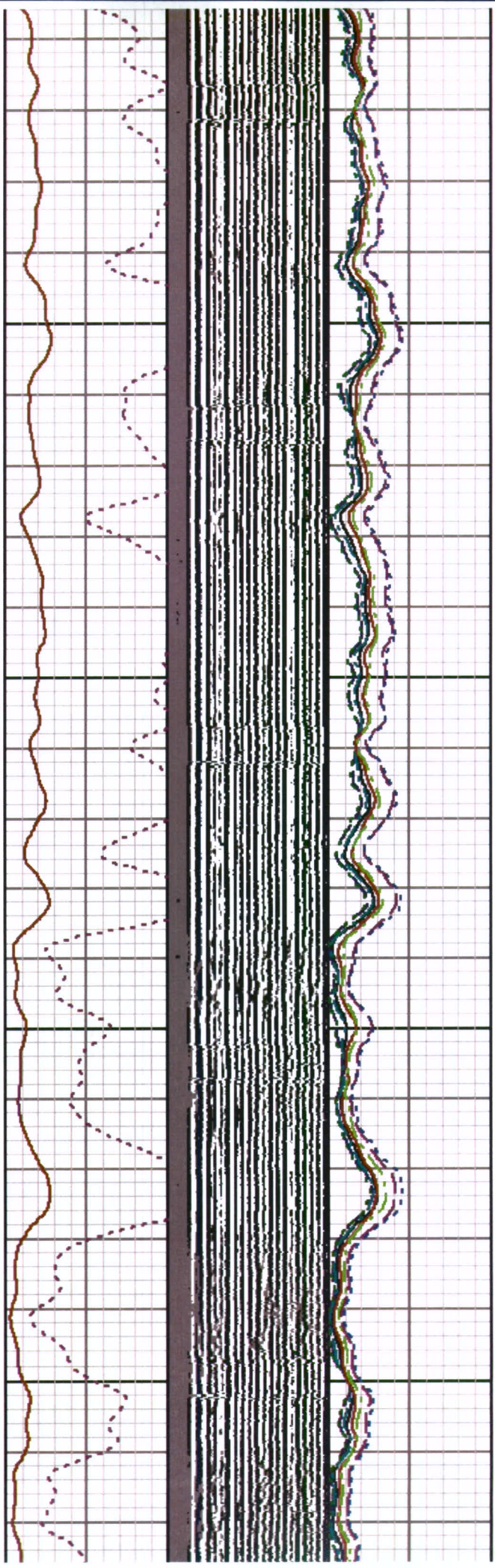




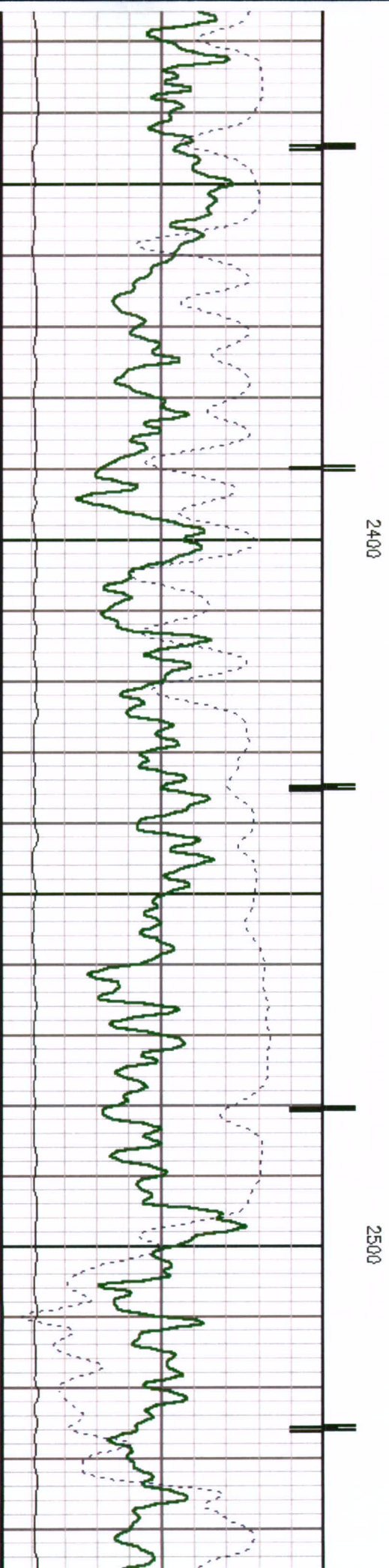
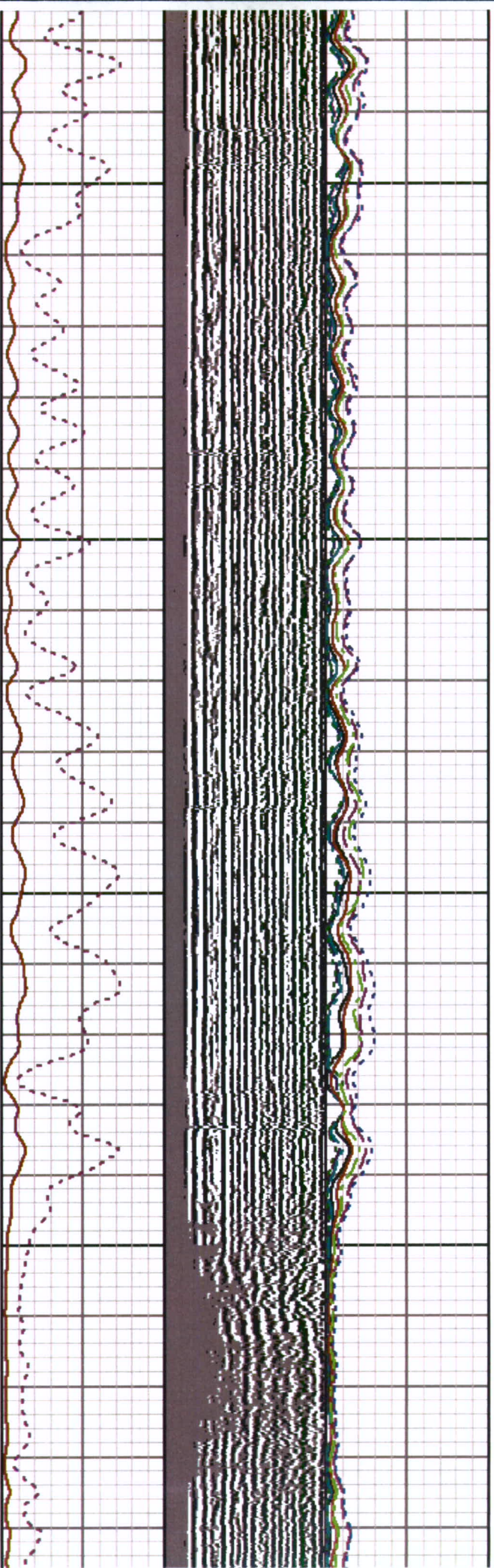




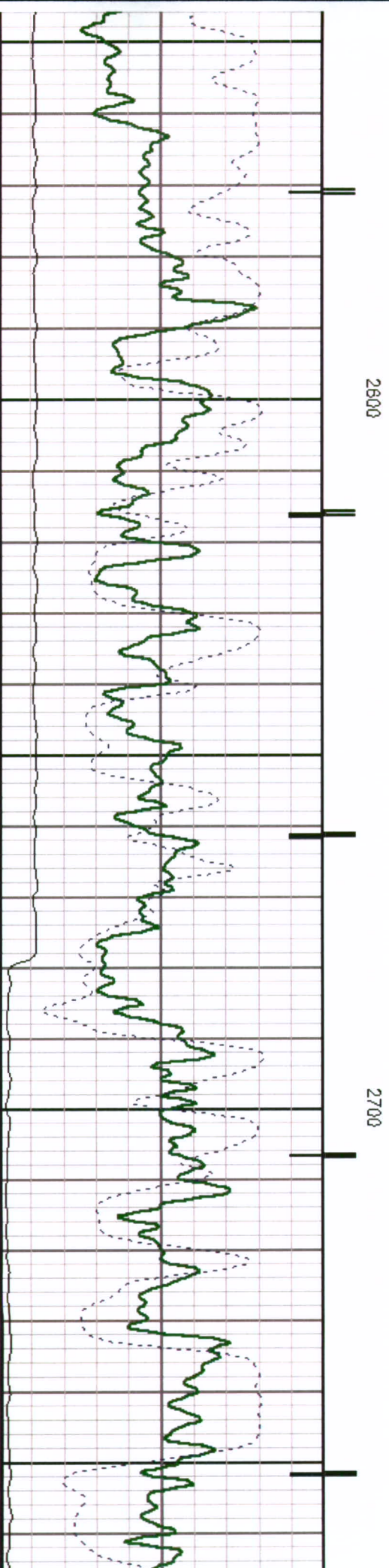
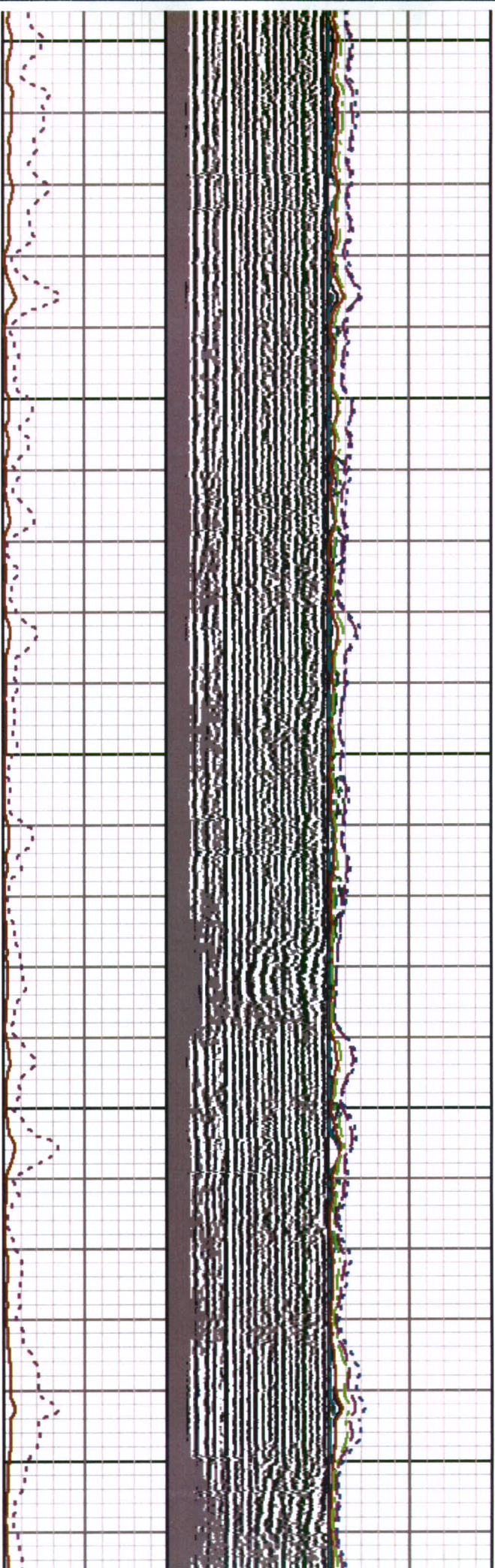




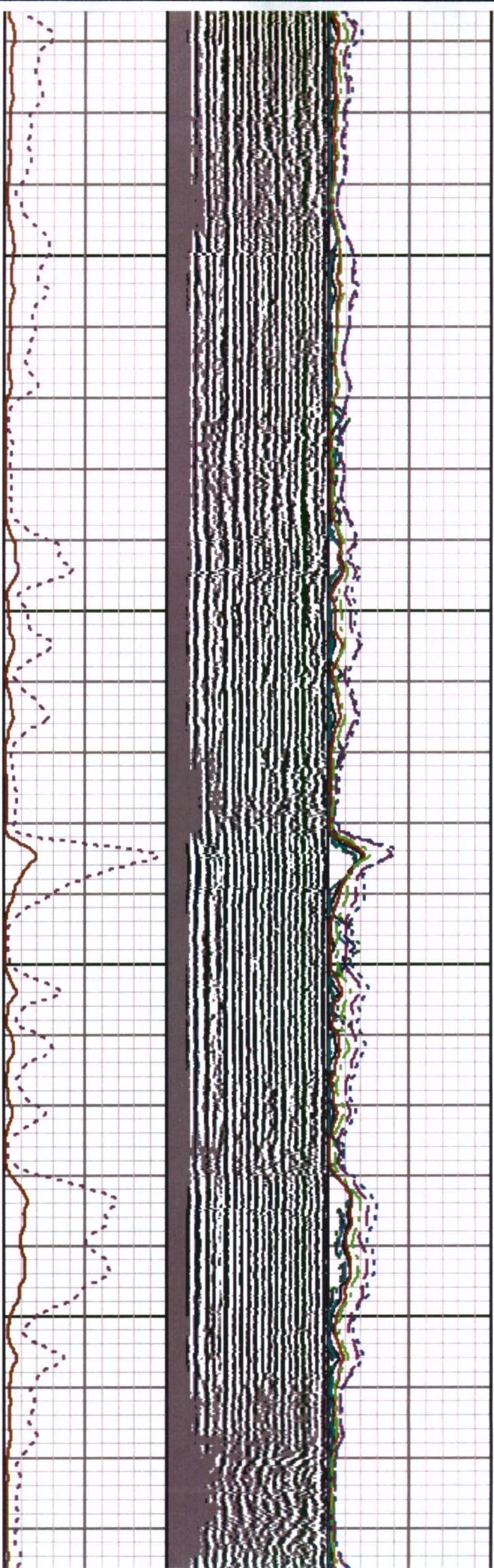




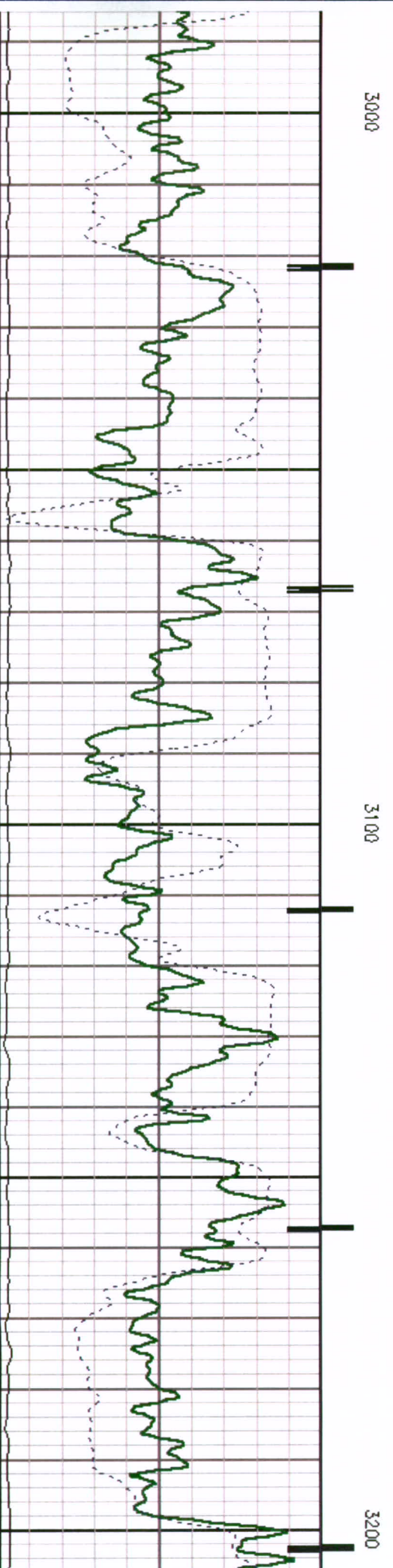
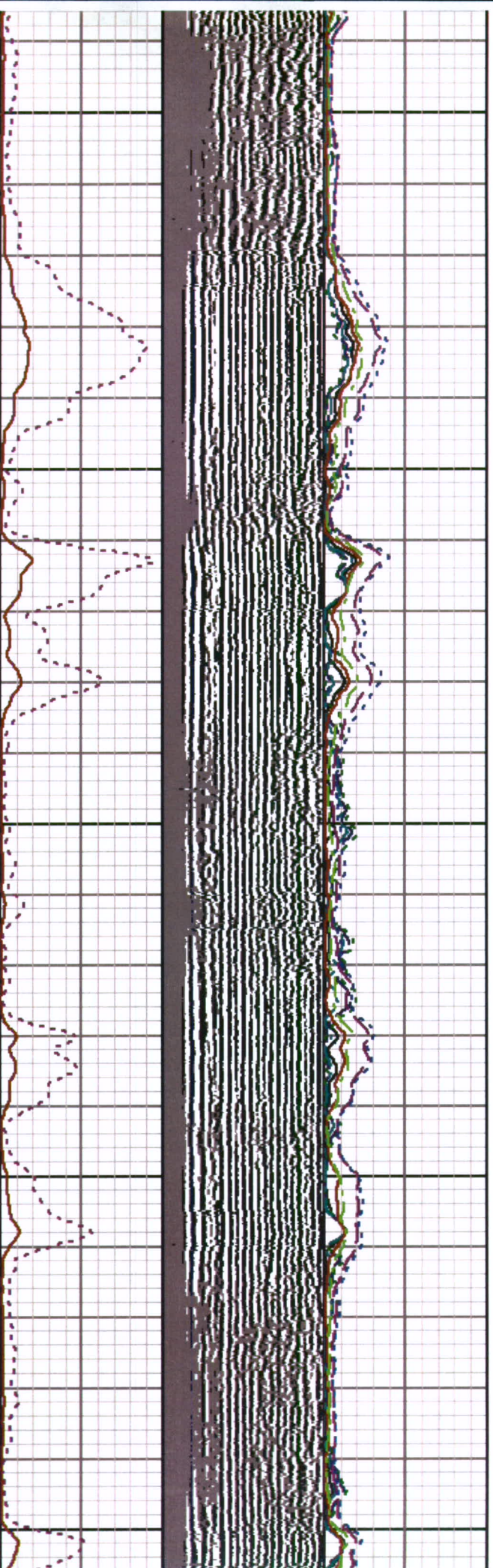




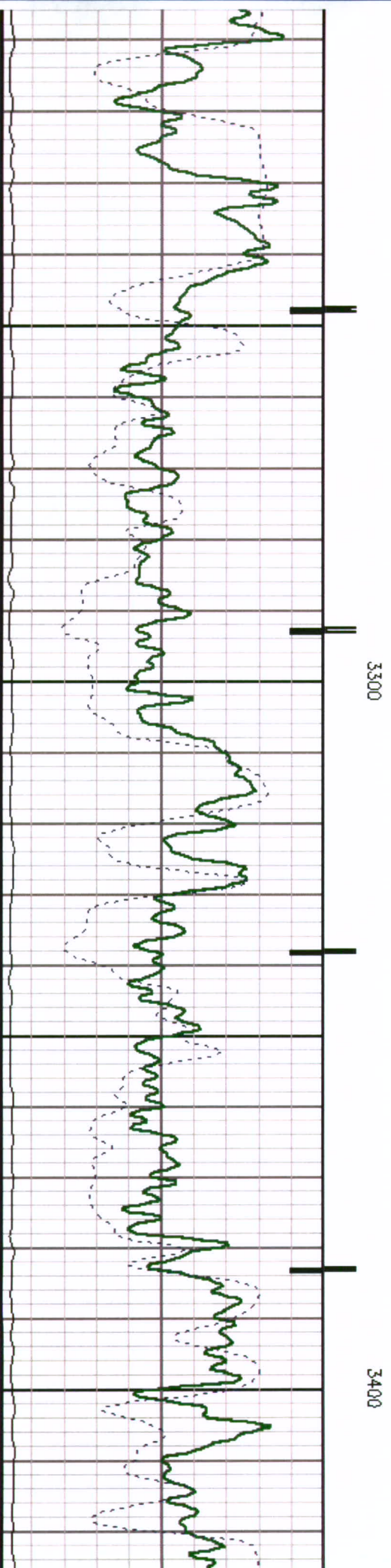
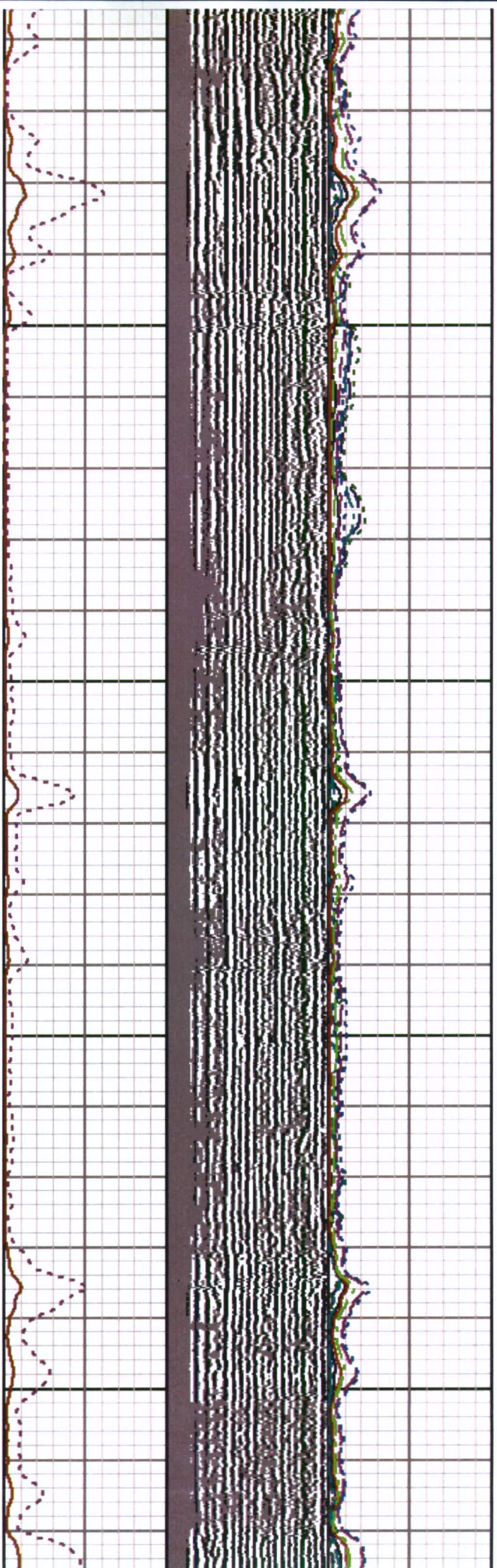




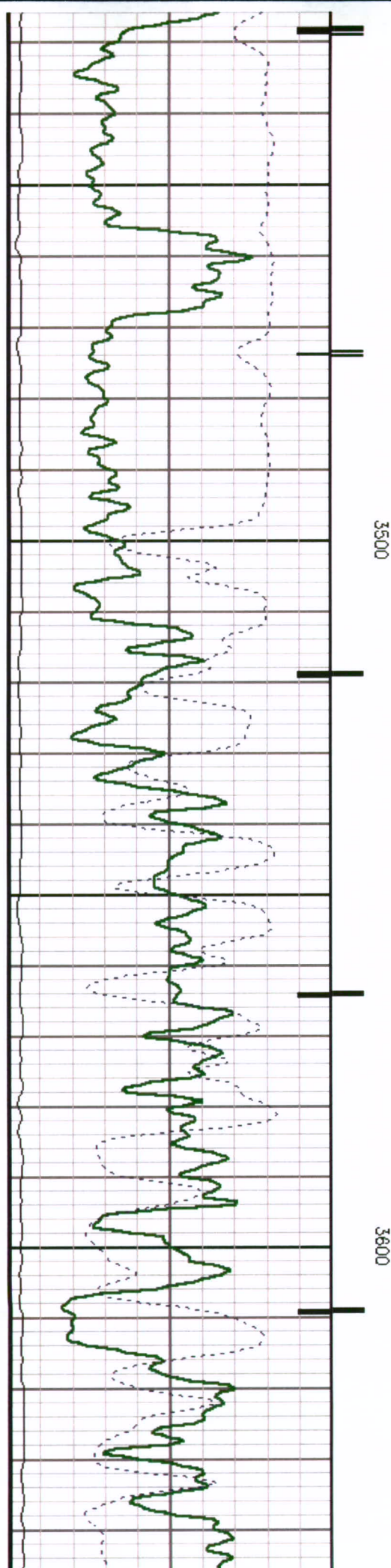
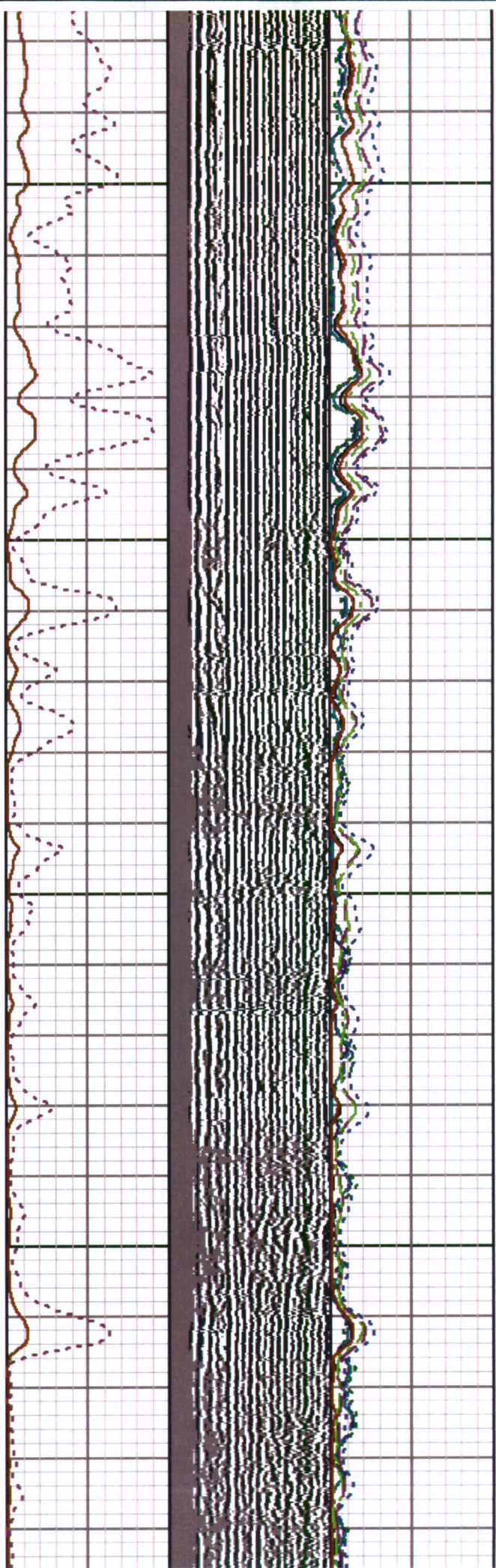




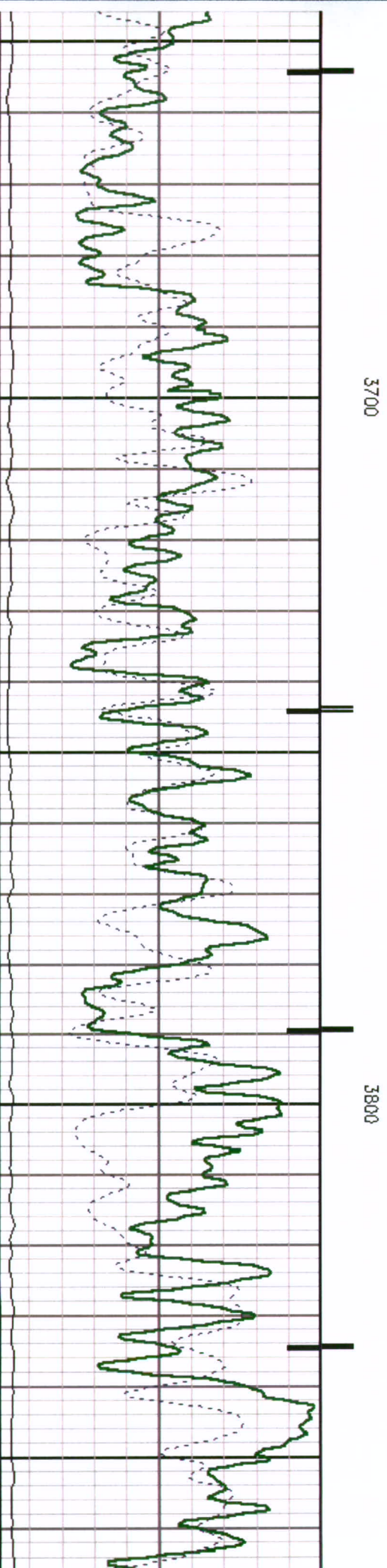
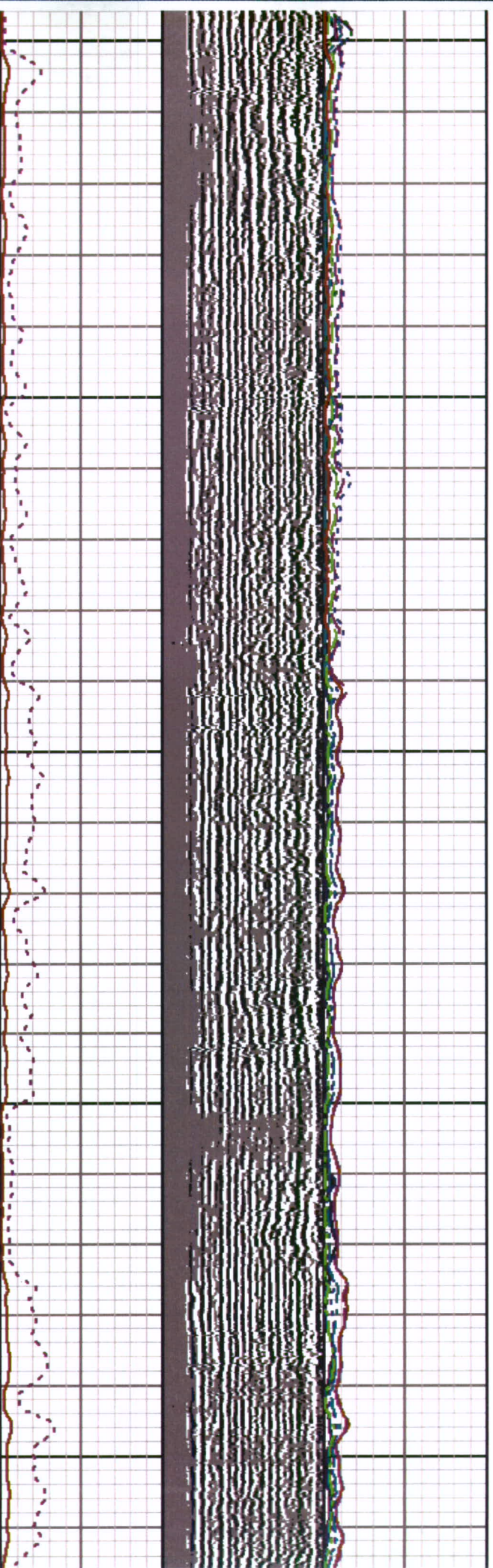




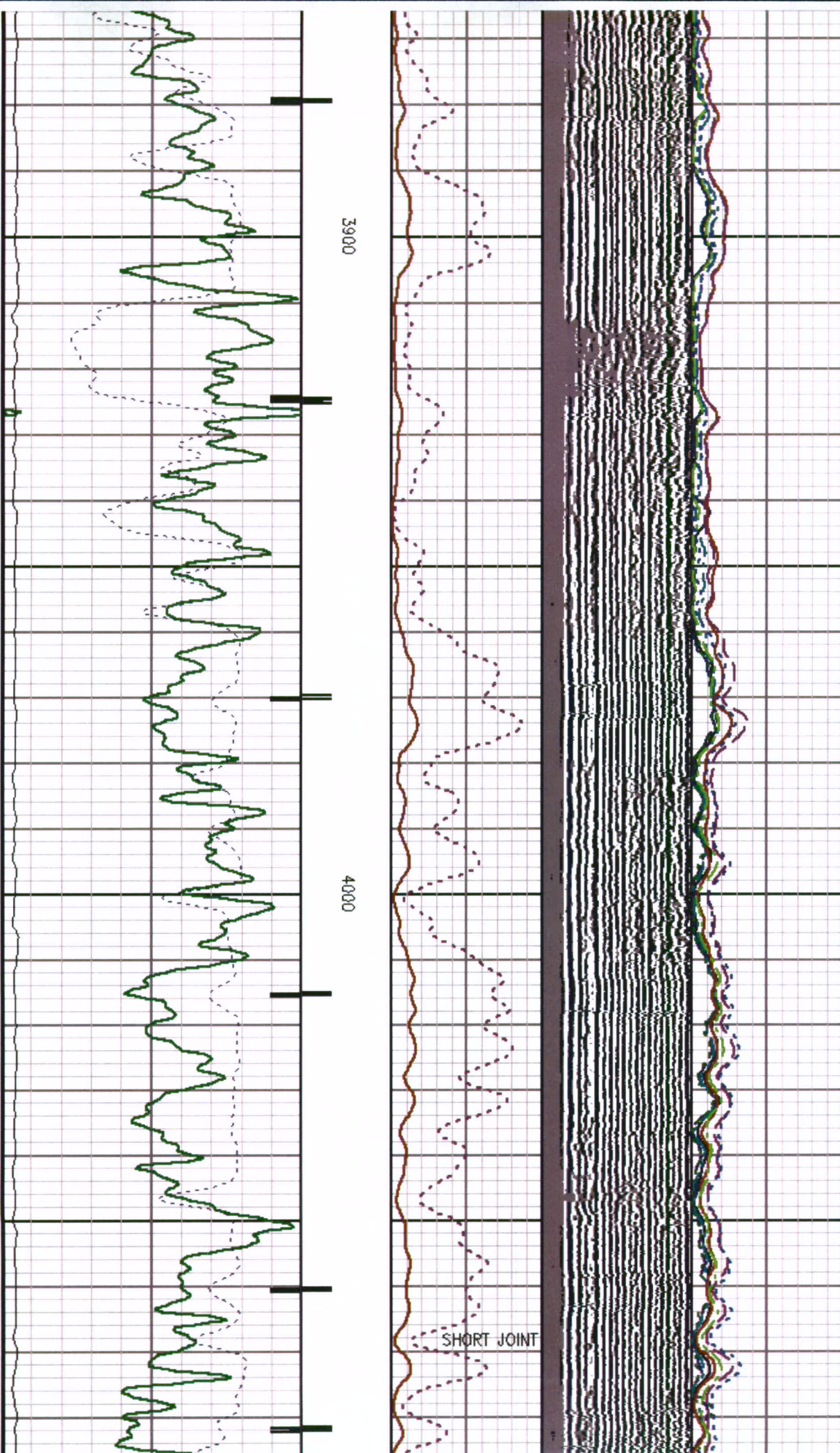




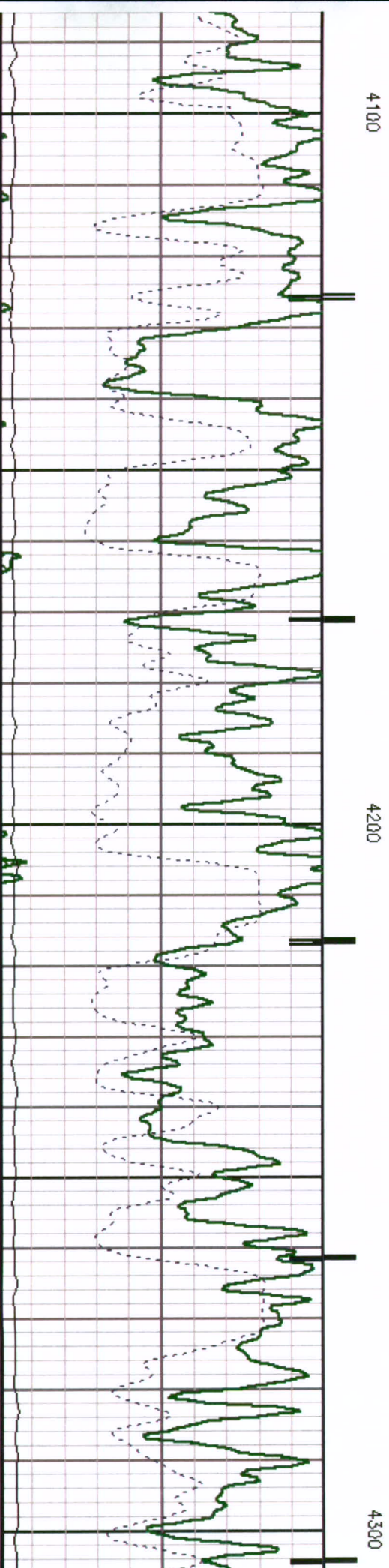
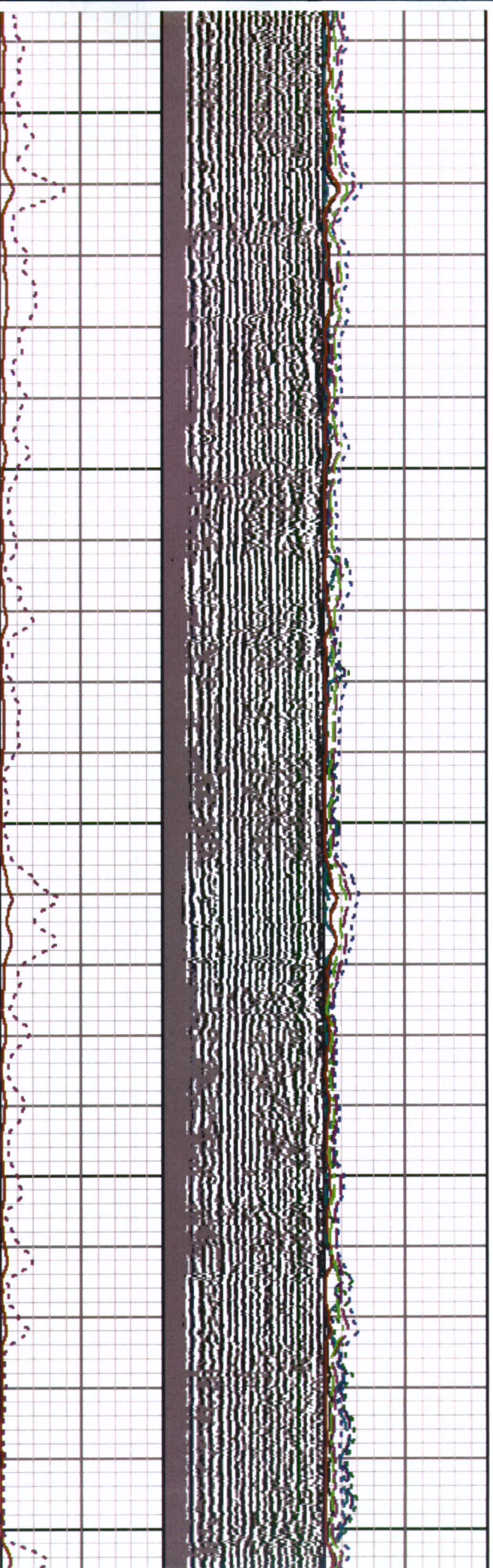




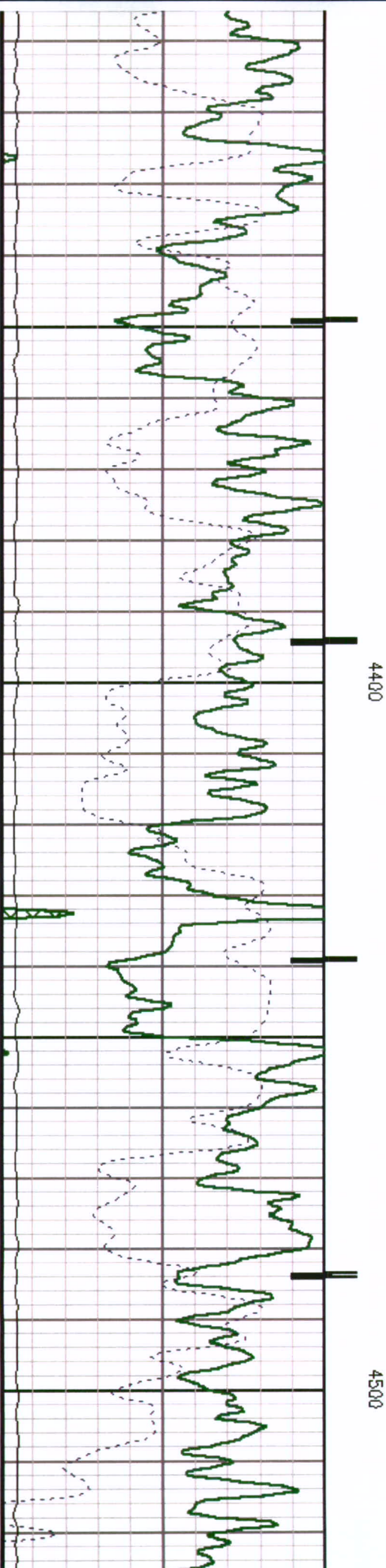
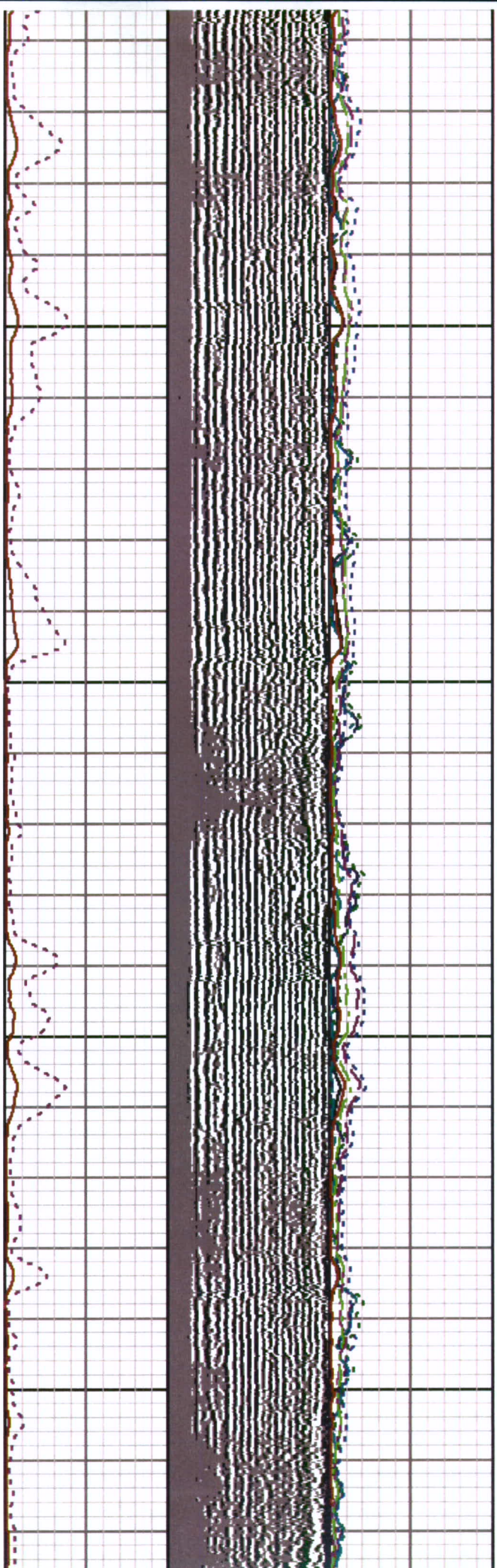




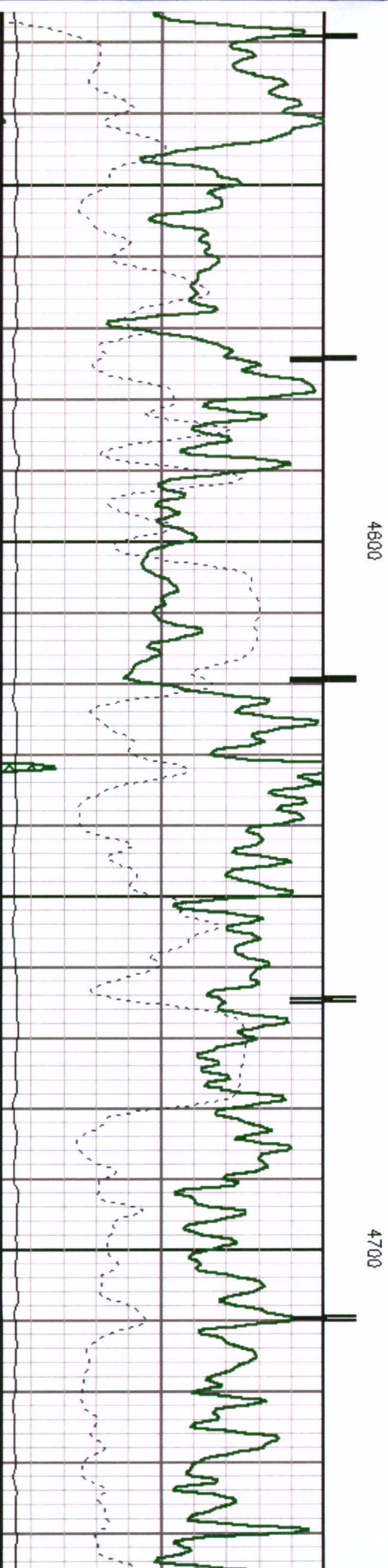
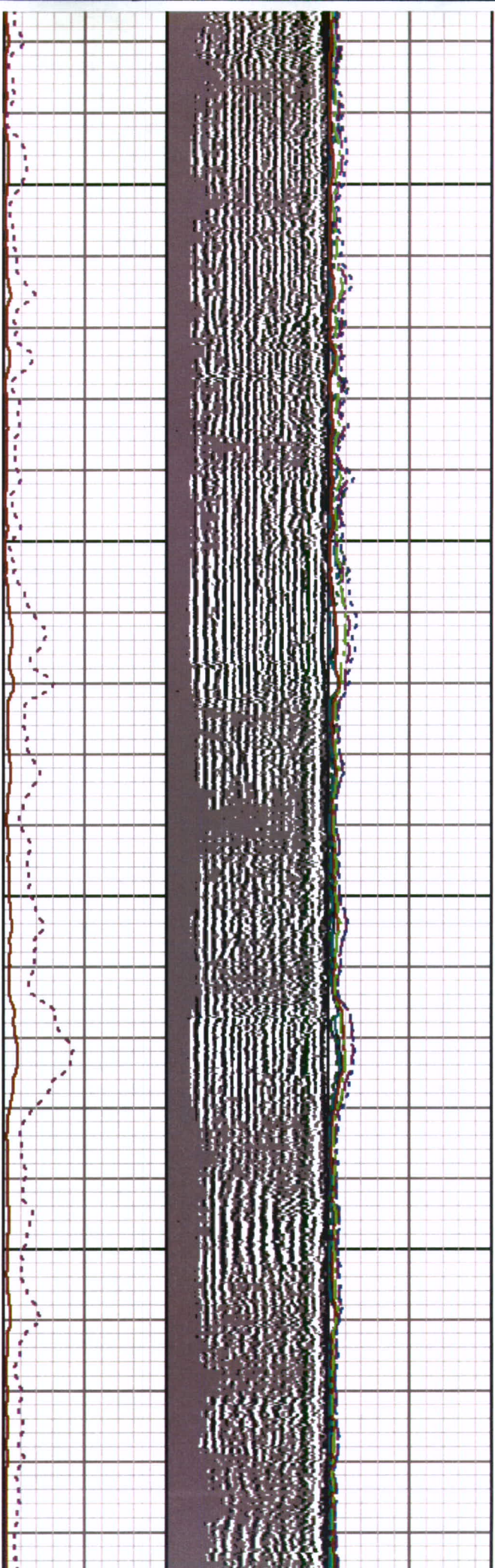




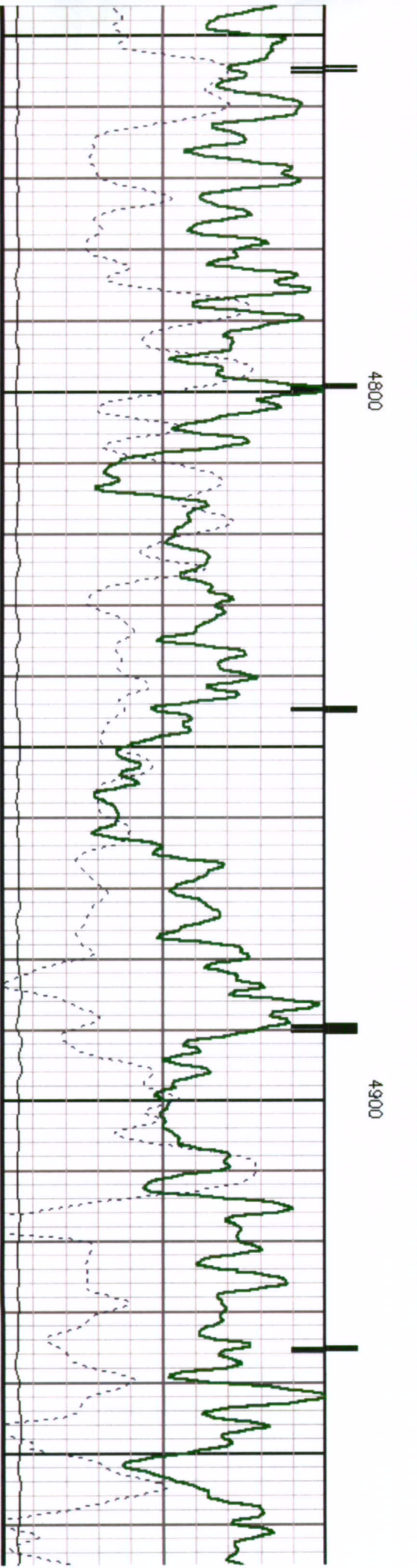
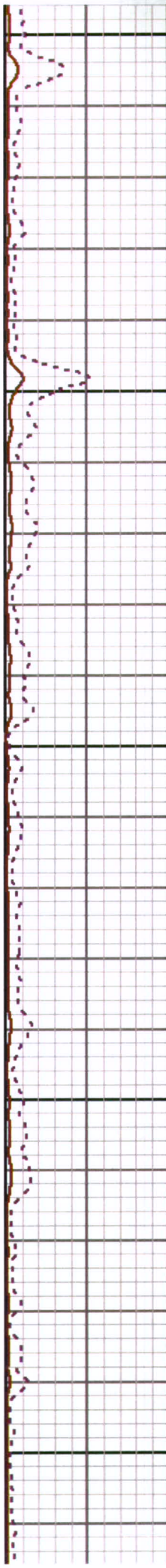
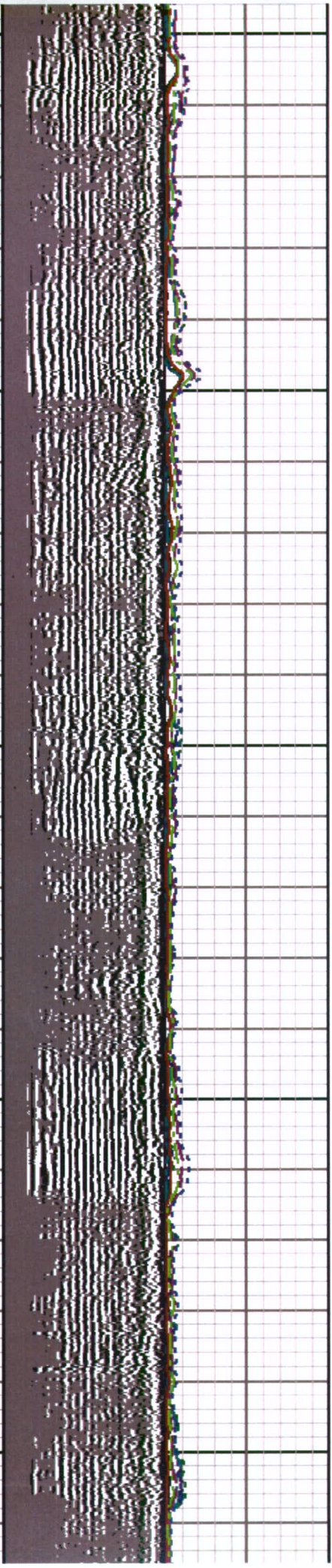




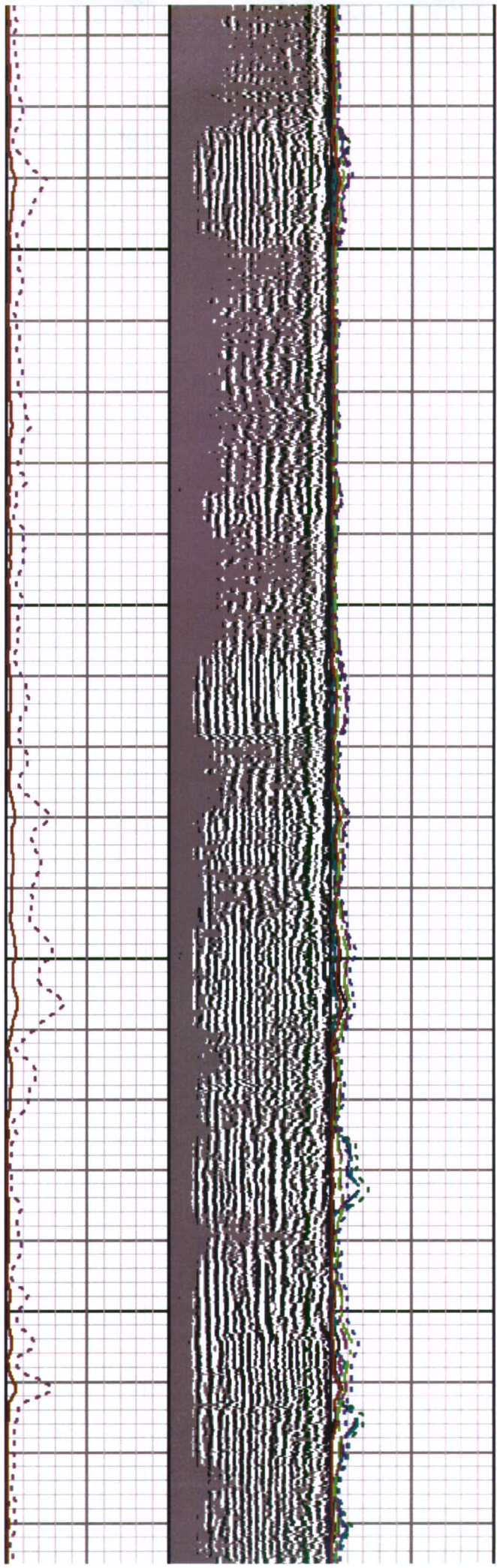






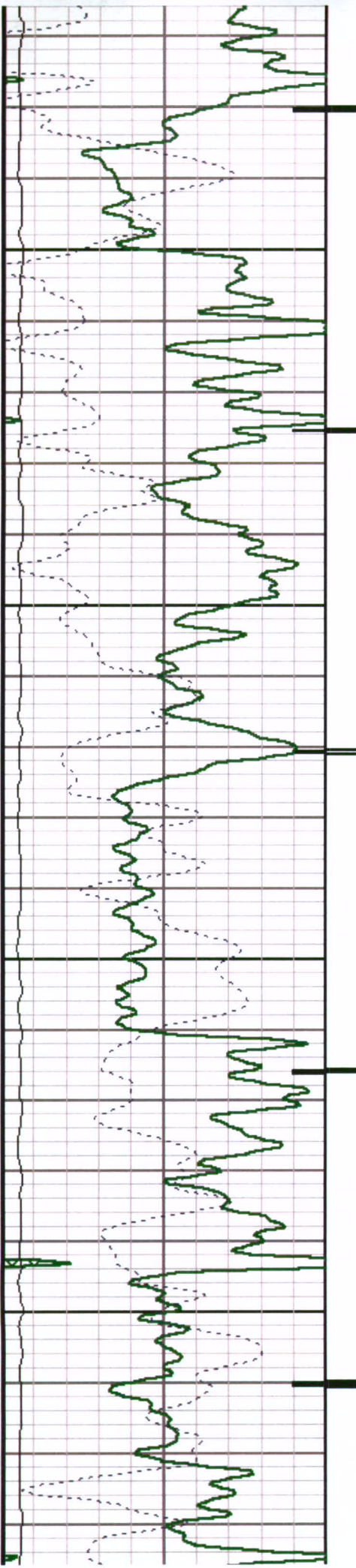




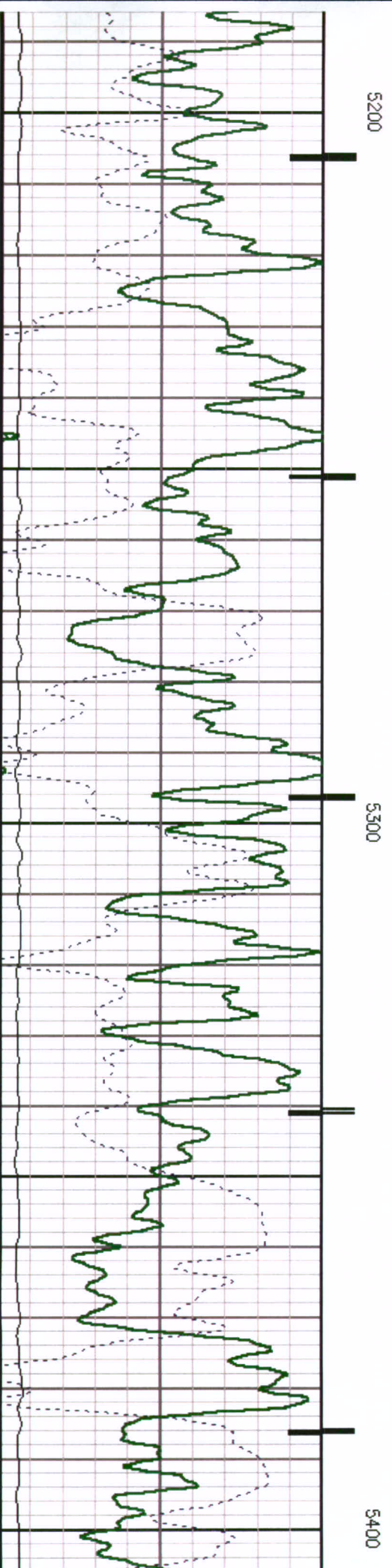
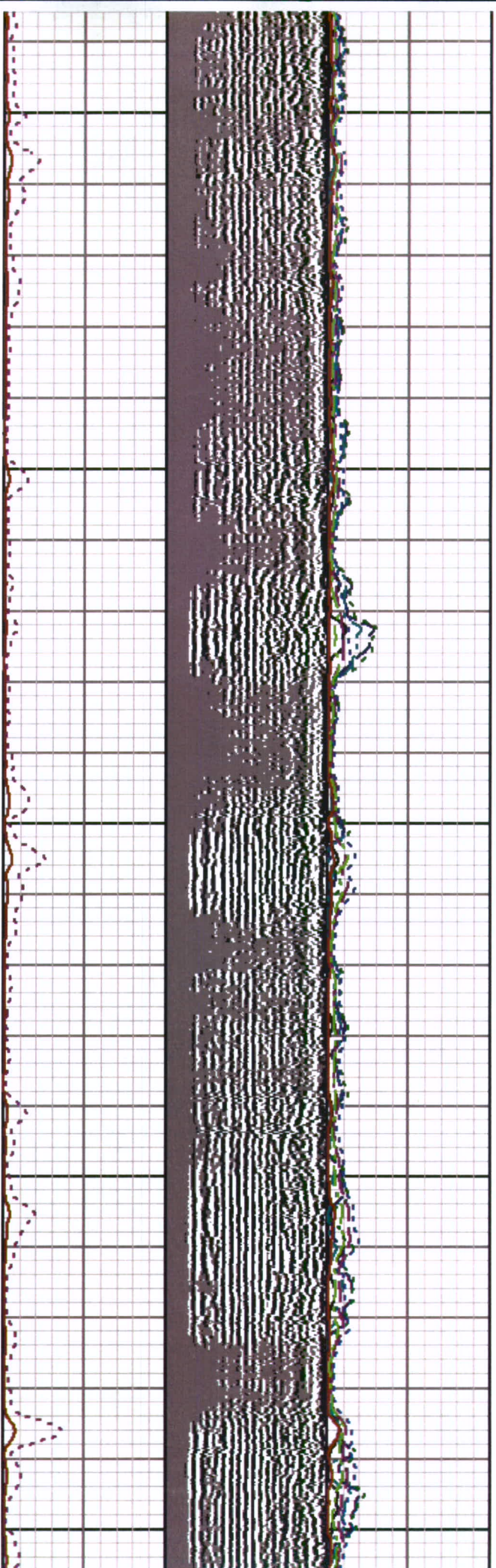


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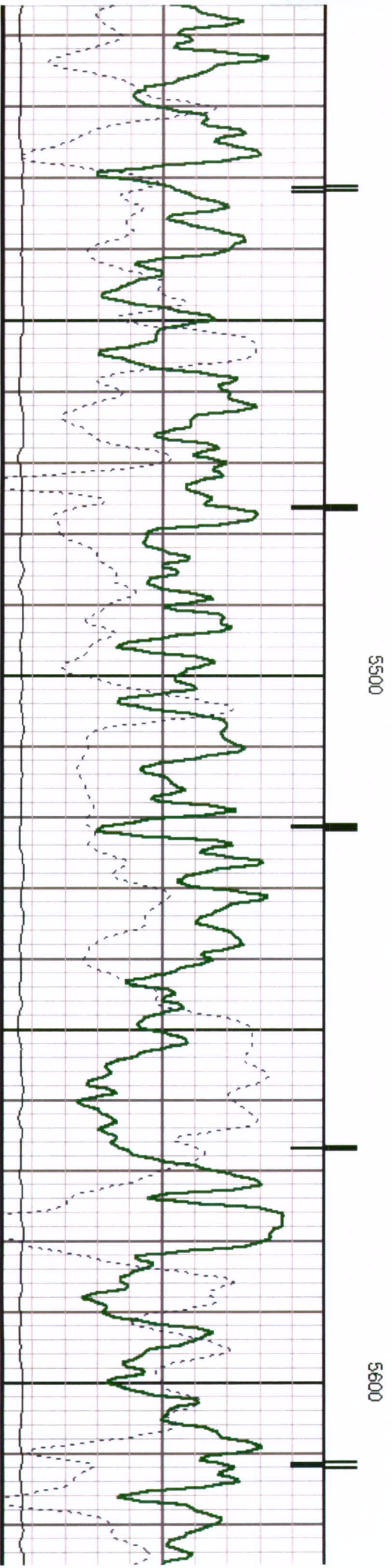
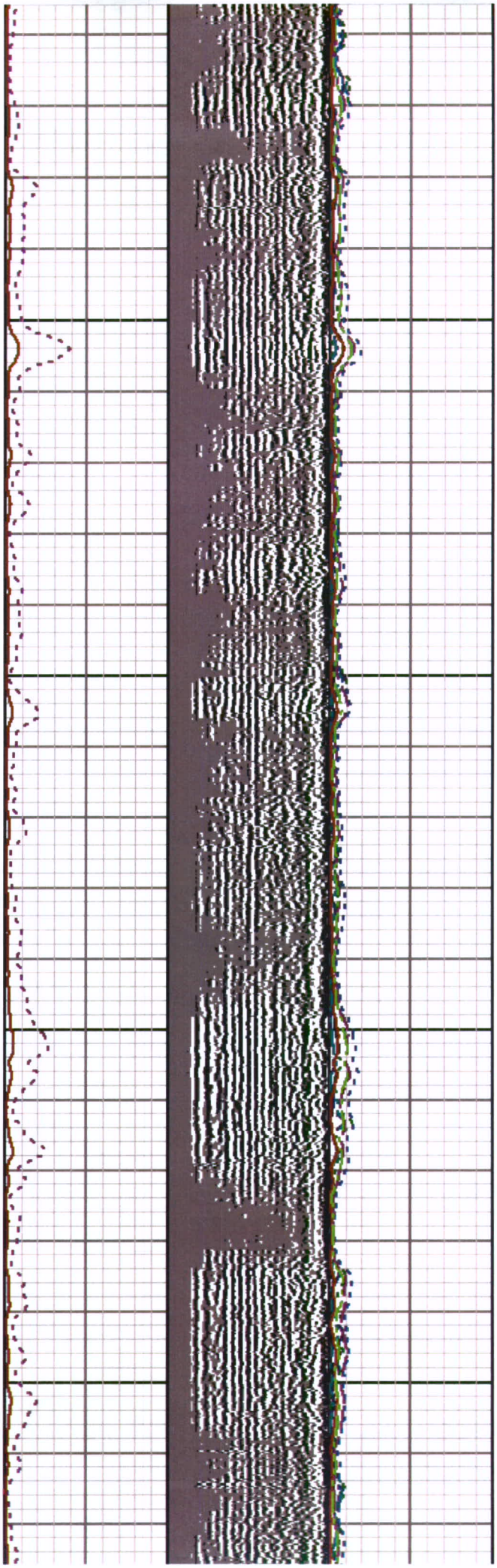
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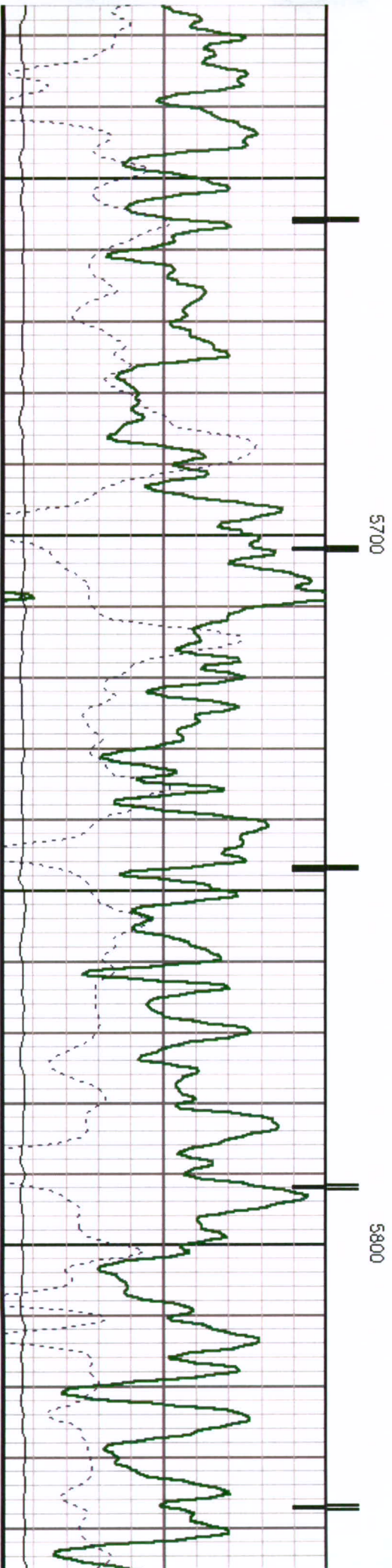
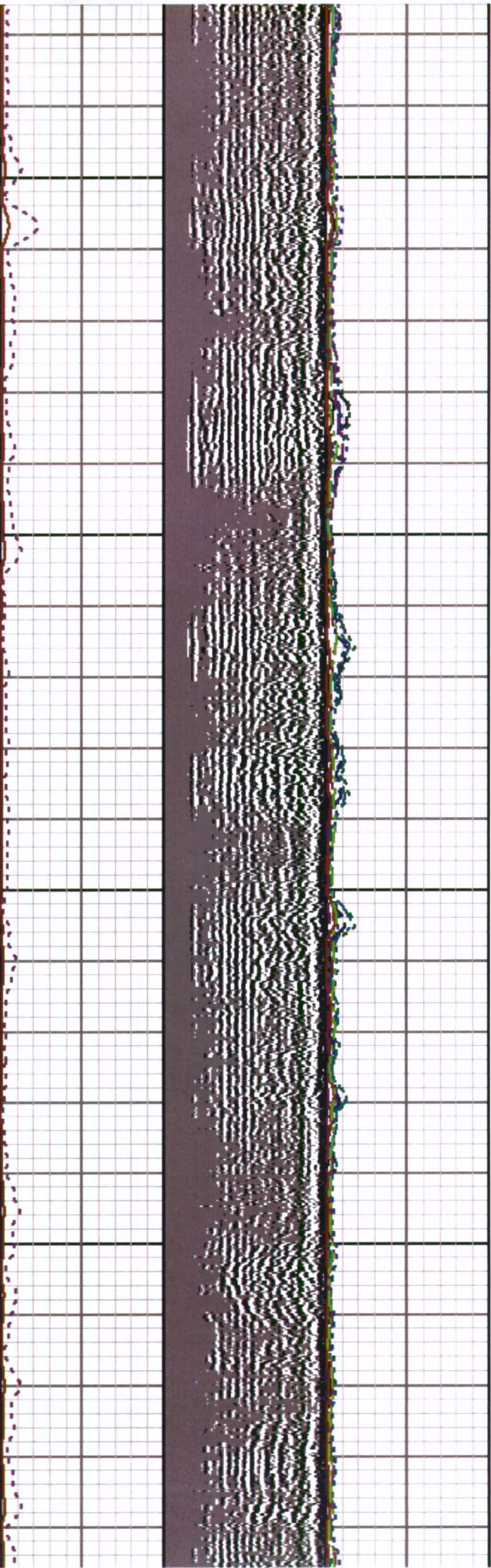




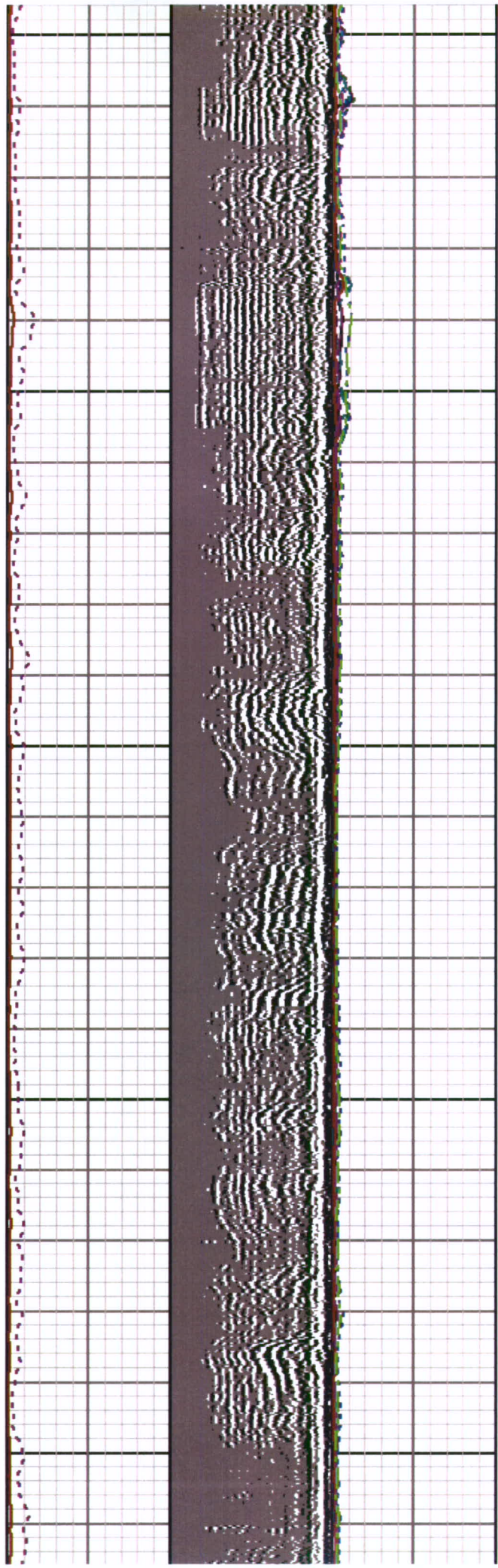
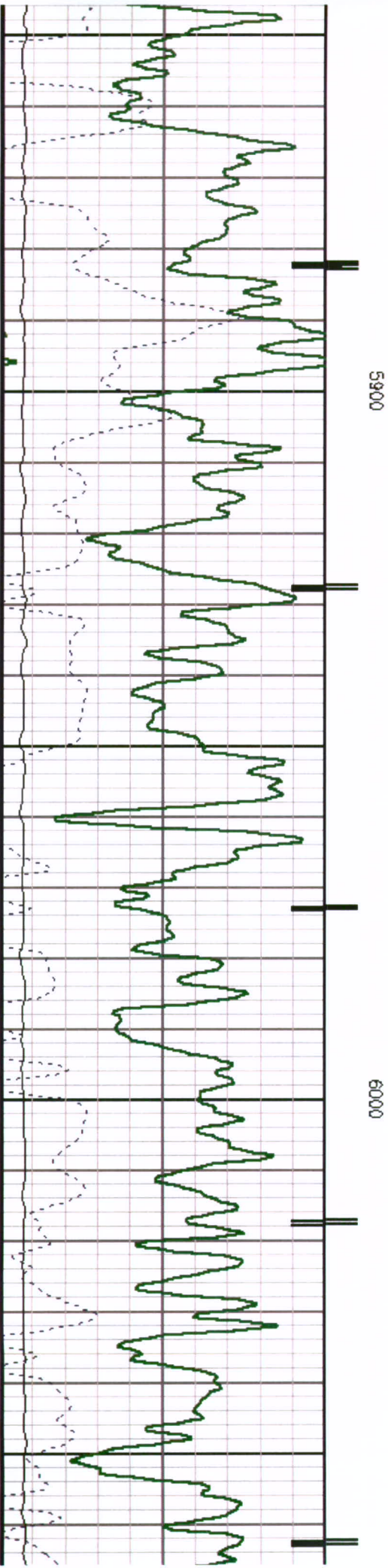
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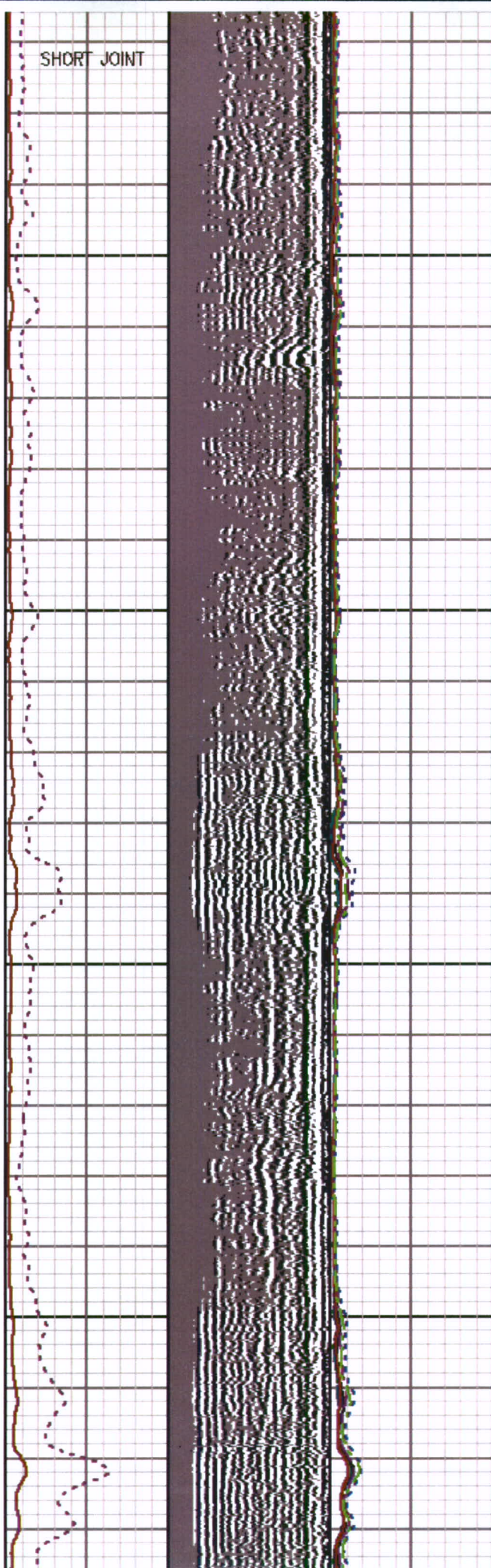
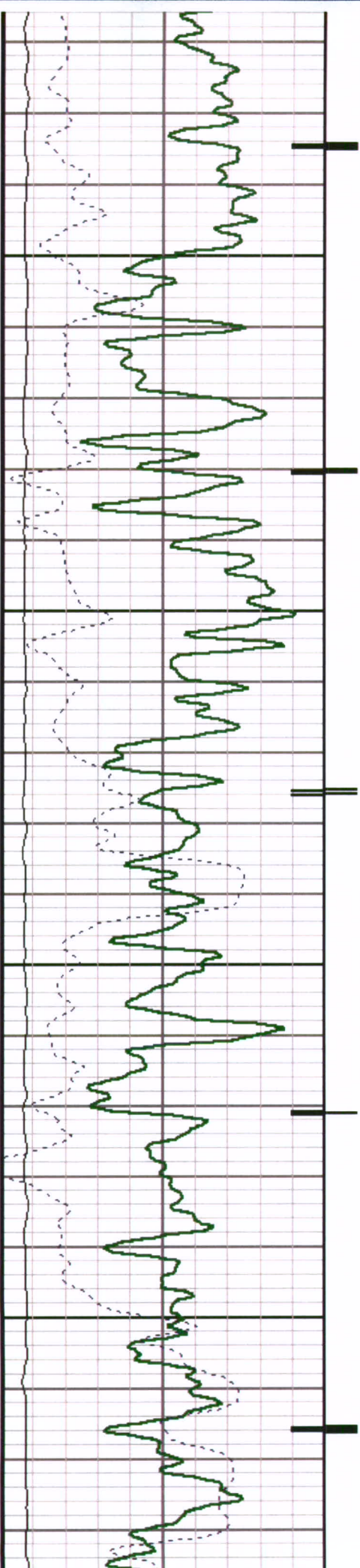




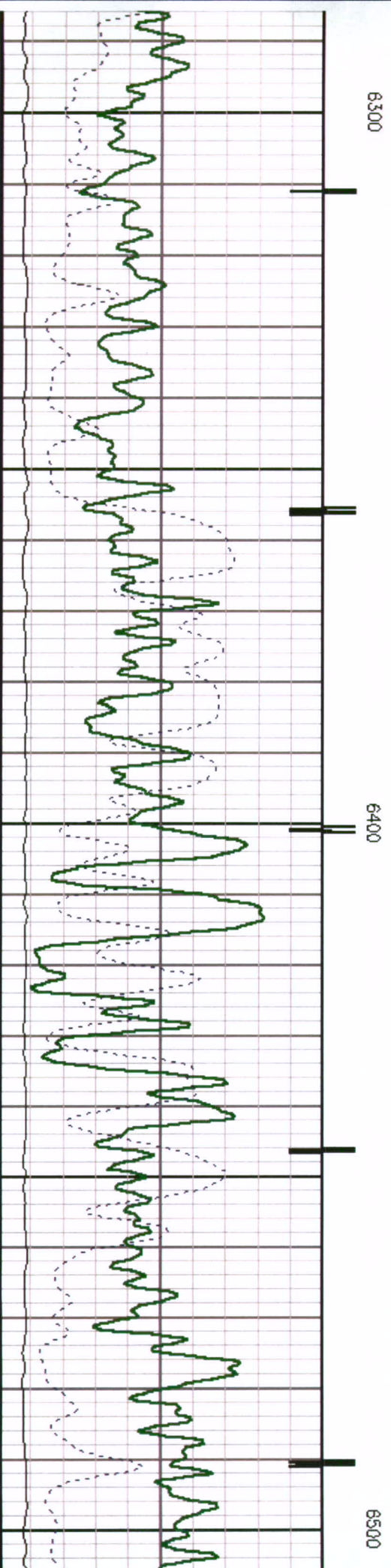
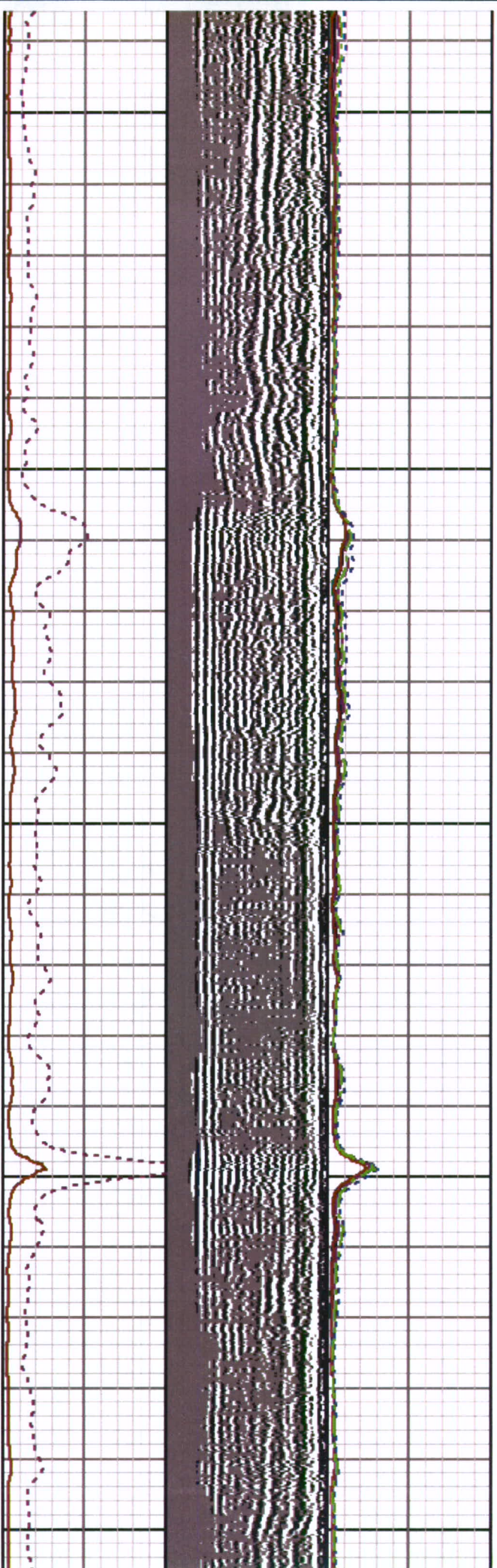
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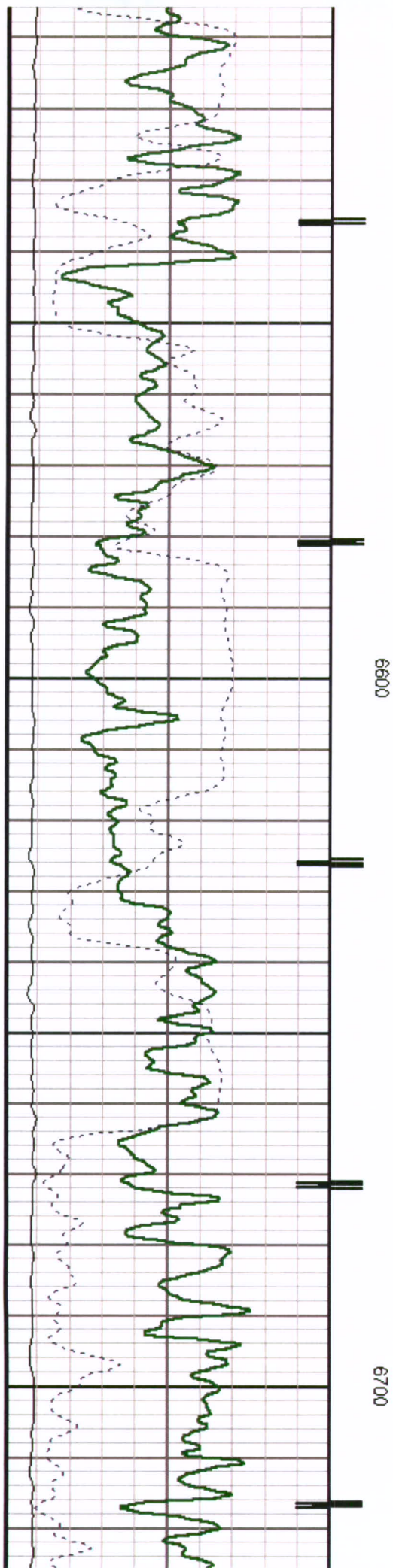
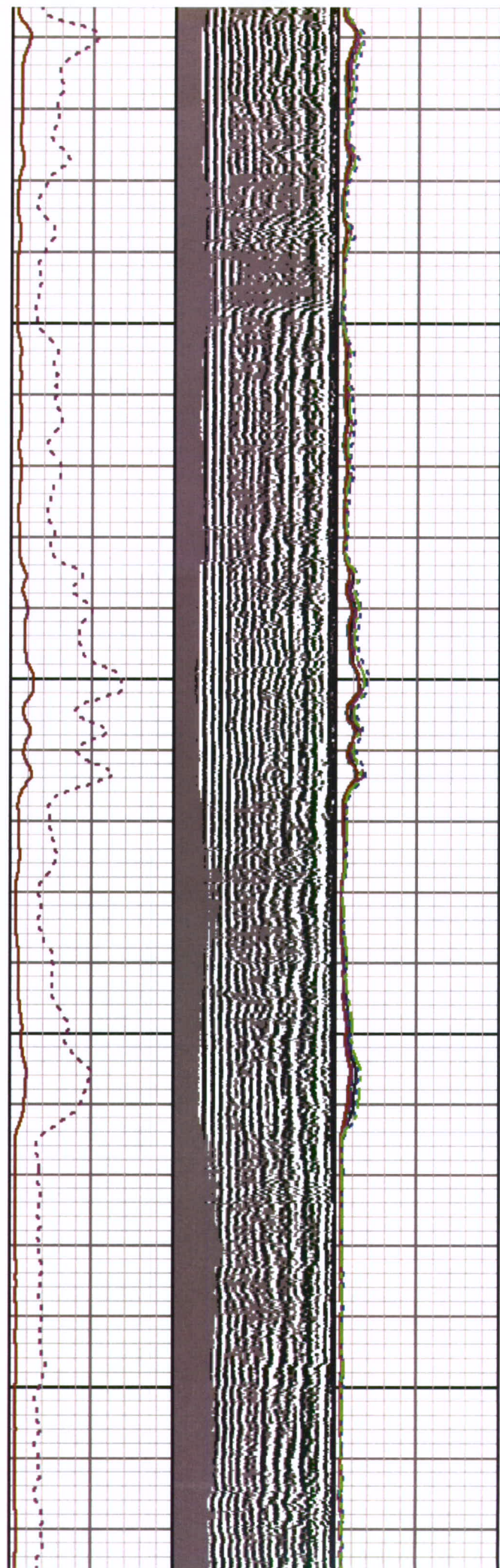
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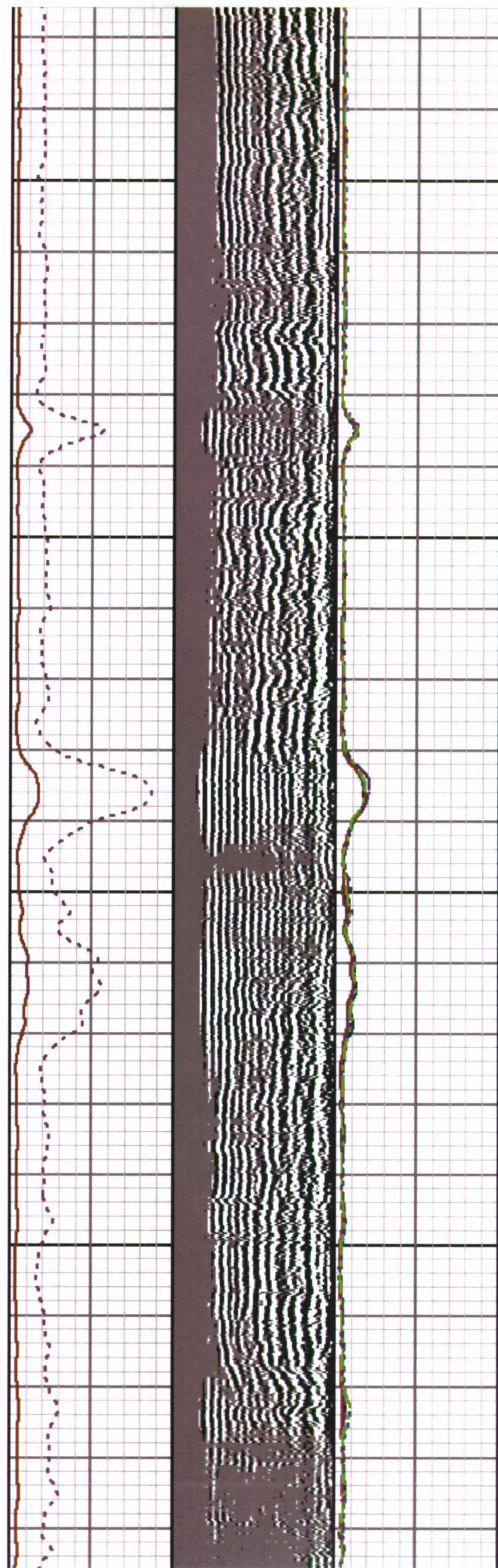
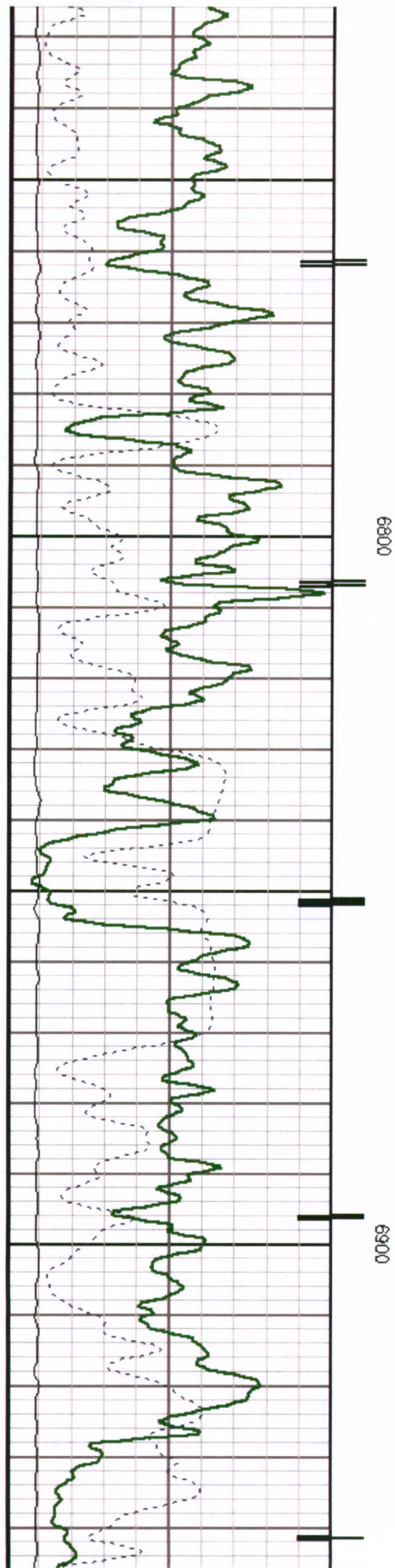




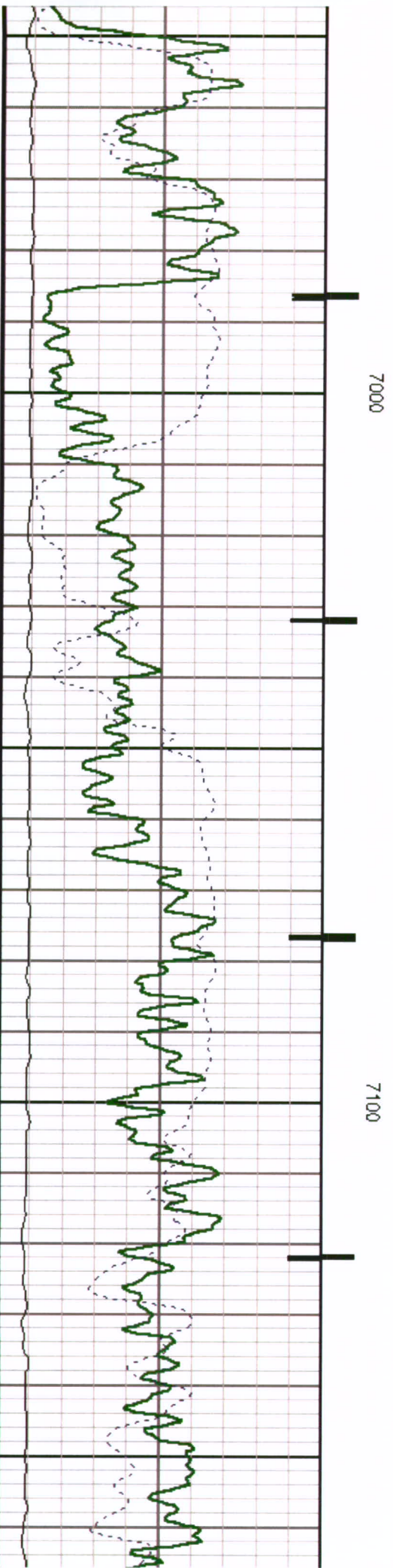
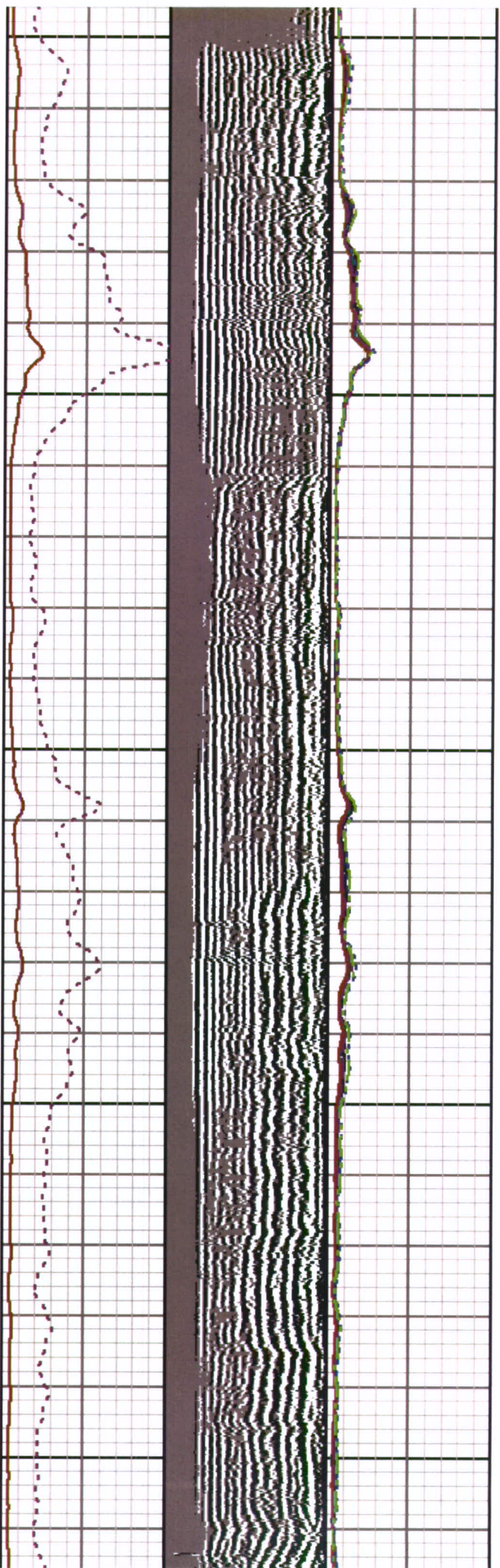




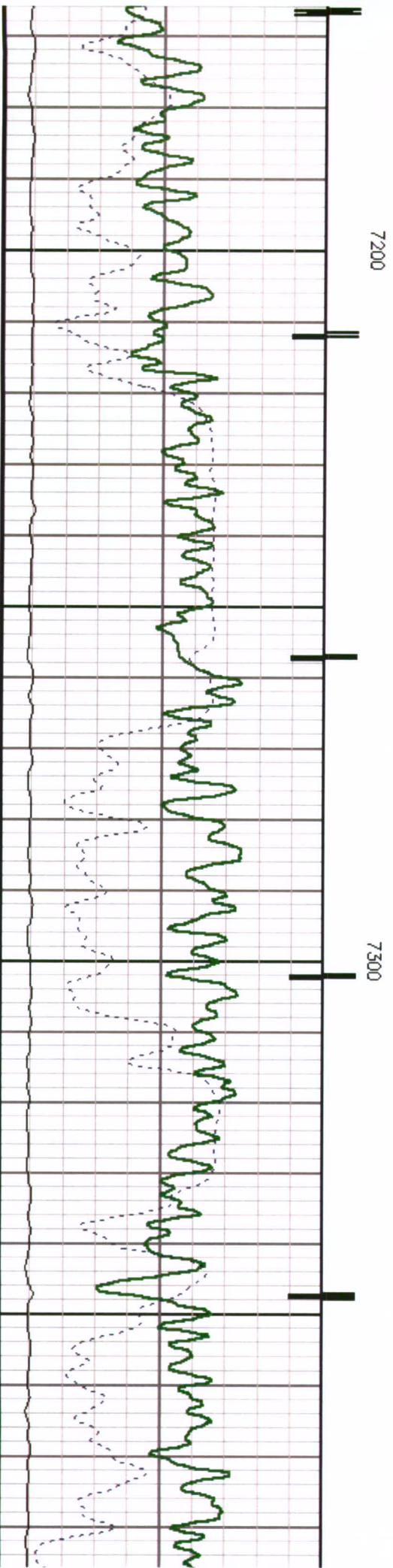
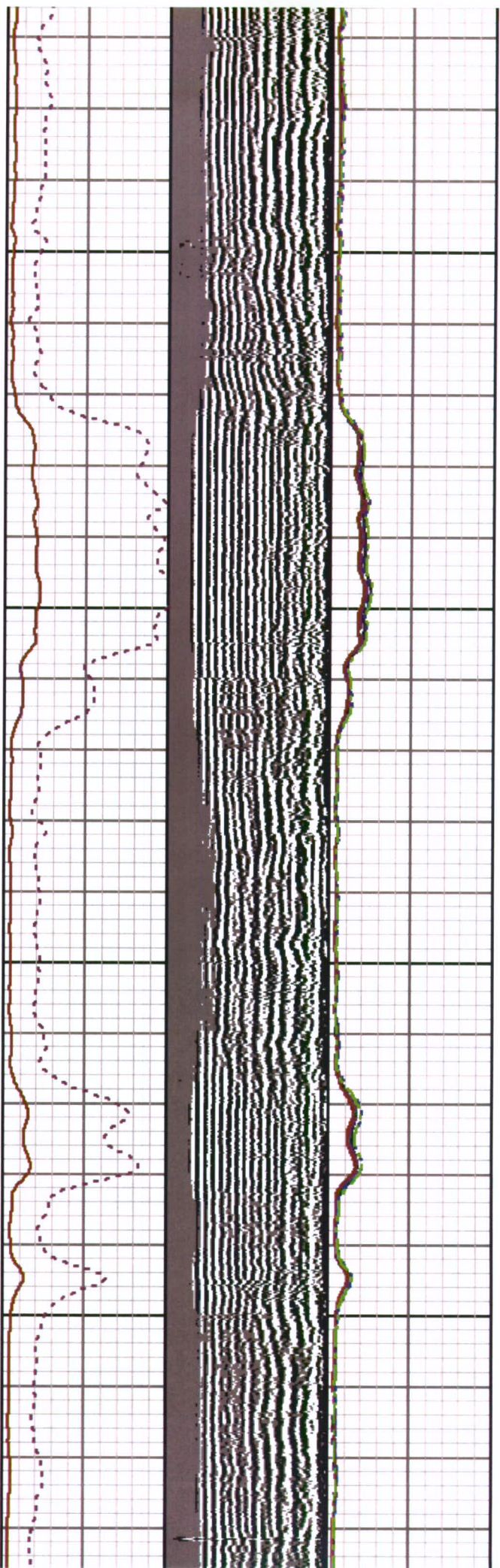




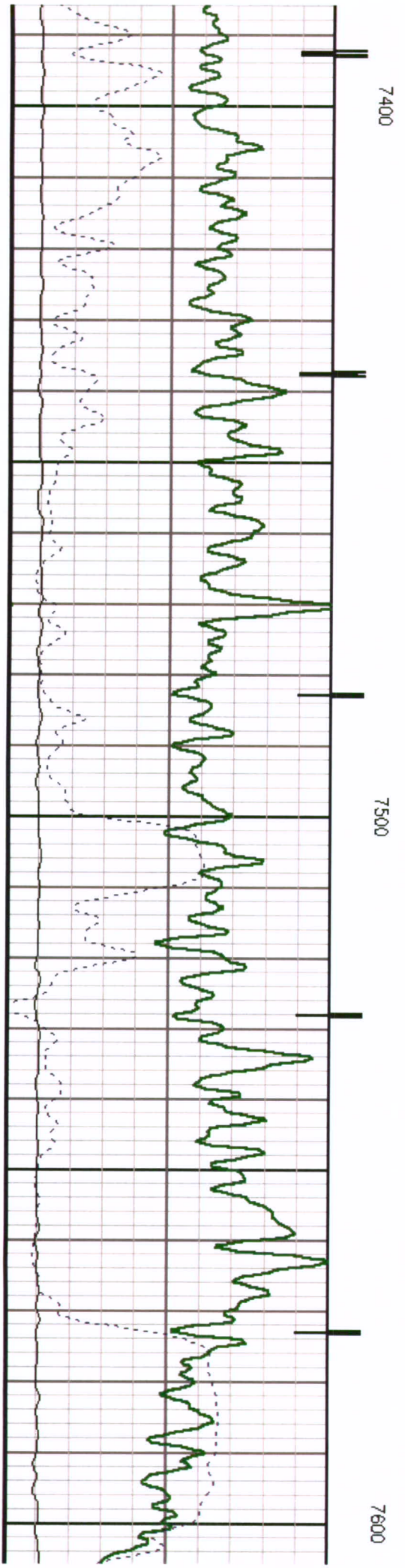
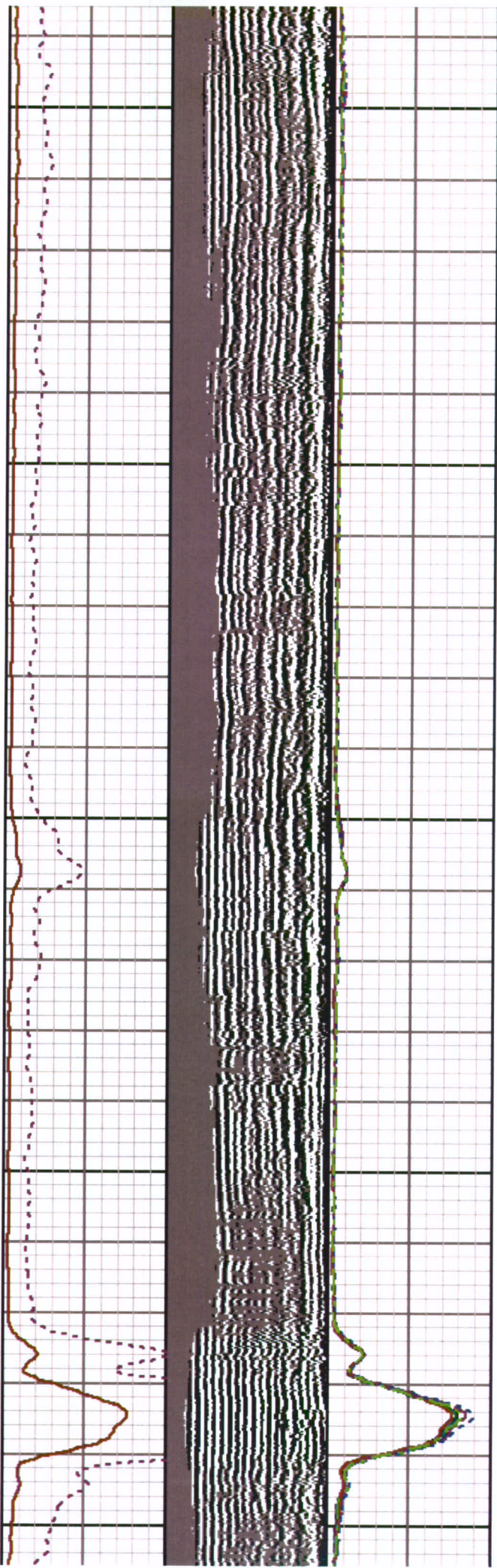




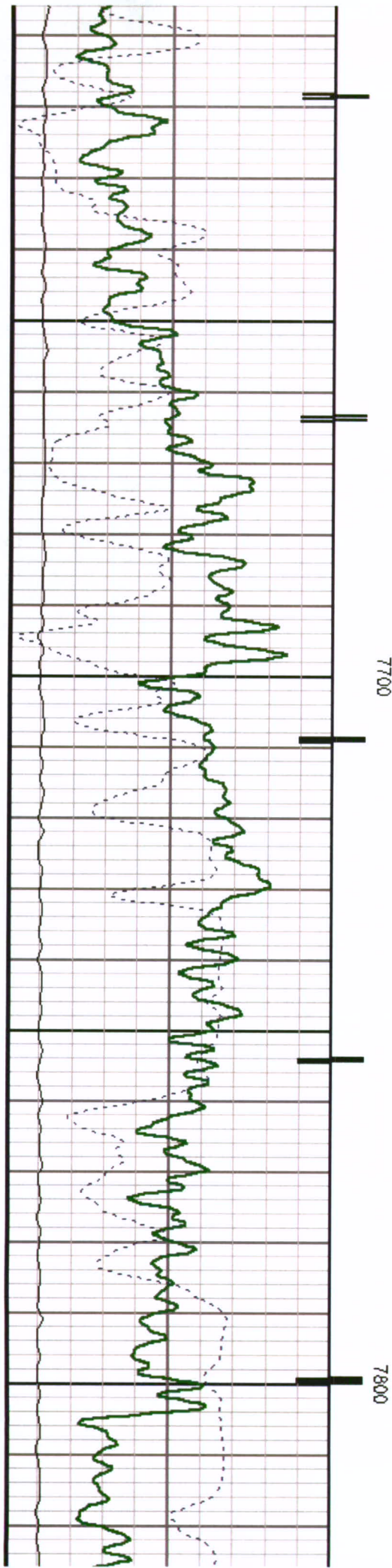
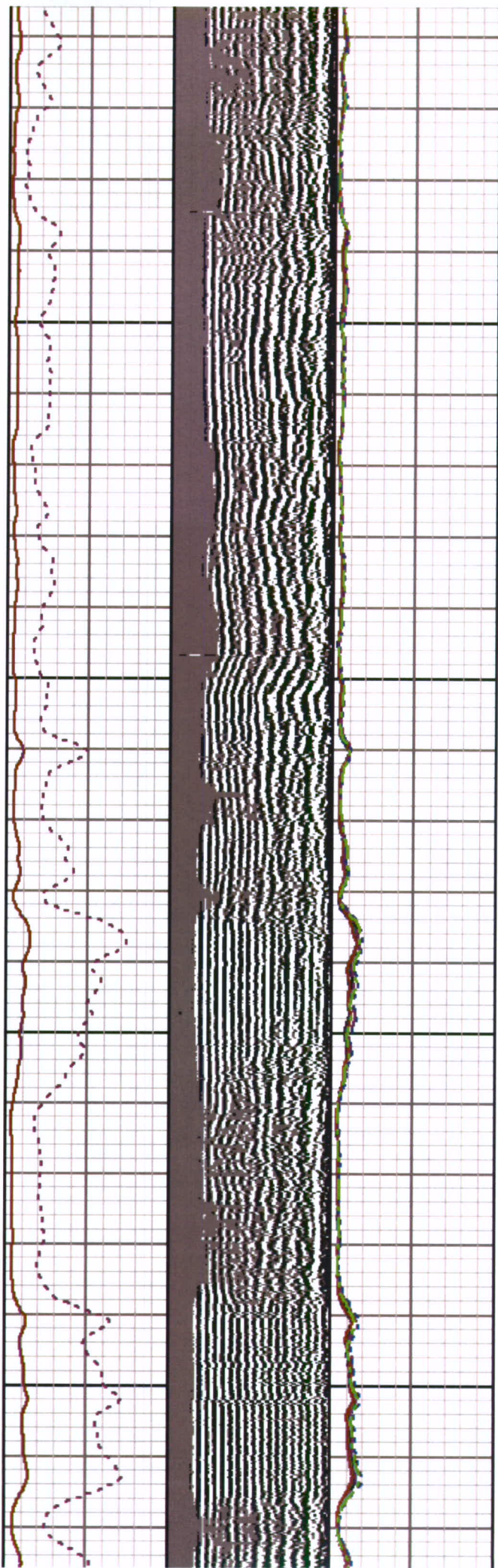




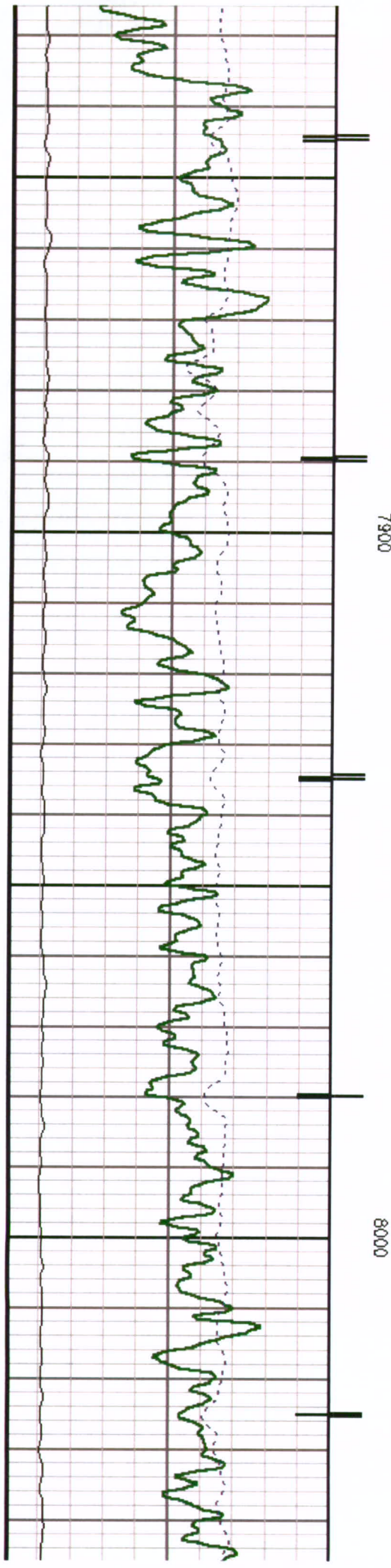
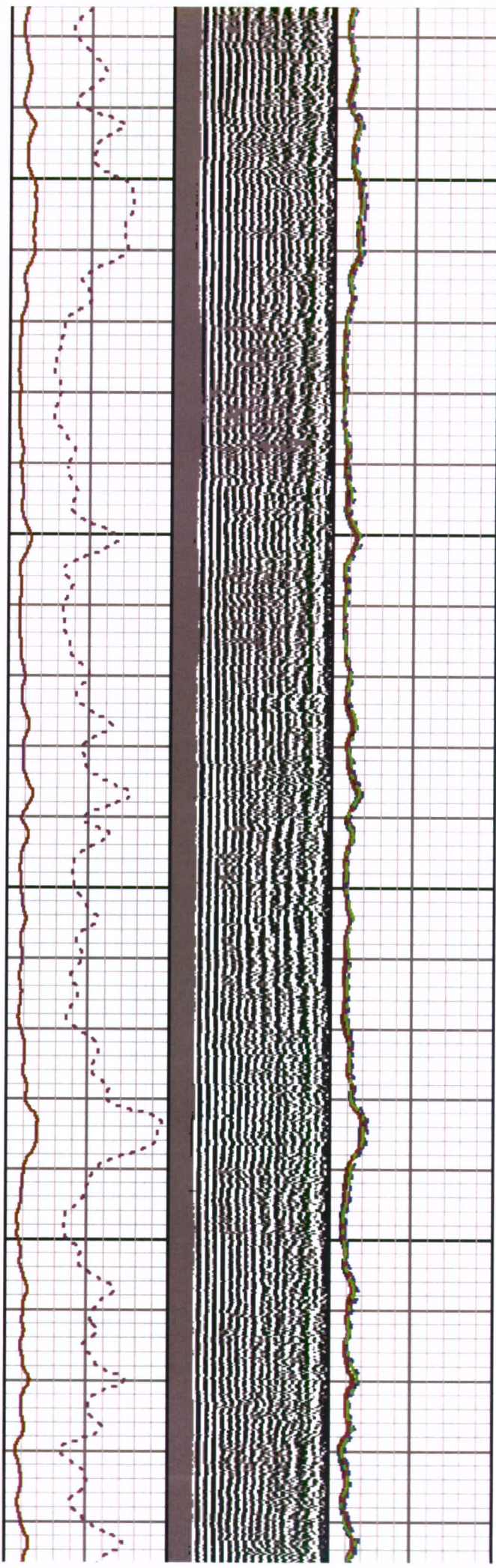




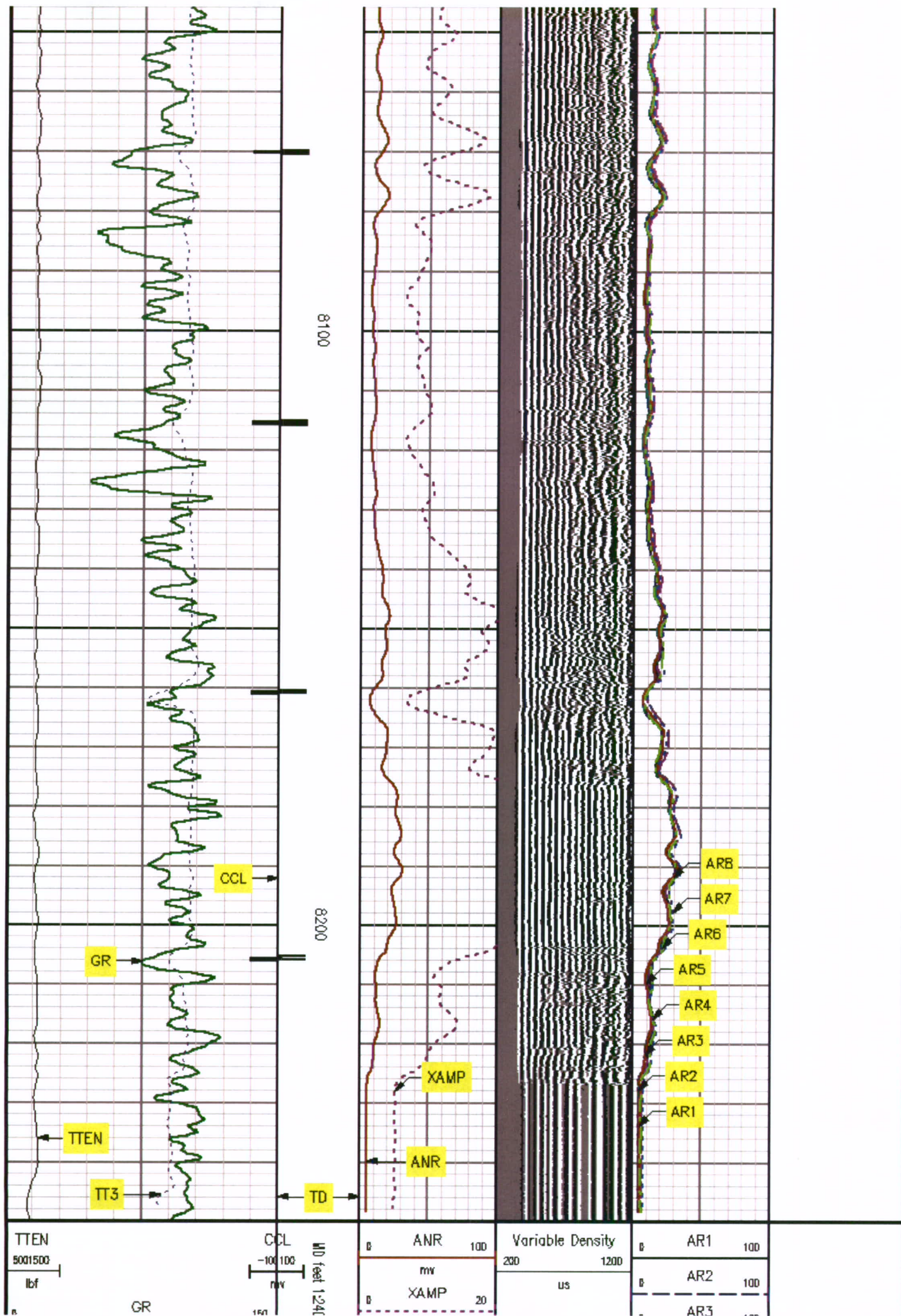














gAPI		mv	100	
280	TT3		100	
u sec			100	
			100	
			100	
			100	
			100	
			100	

## REPEAT SECTION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	332.187	u sec	7913.750	8261.000
RAL	Amp Gate Start Near	215.678	u sec	7913.750	8261.000
RAL	Amp Gate Start Radial	215.678	u sec	7913.750	8261.000
RAL	Amp Gate Width Far	25.000	u sec	7913.750	8261.000
RAL	Amp Gate Width Near	25.000	u sec	7913.750	8261.000
RAL	Amp Gate Width Radial	25.000	u sec	7913.750	8261.000
RAL	casing od	5.500	inches	7913.750	8261.000
RAL	casing wt	15.500	lbm/ft	7913.750	8261.000
RAL	FB Start Far	307.187	u sec	7913.750	8261.000
RAL	FB Start Near	190.678	u sec	7913.750	8261.000
RAL	FB Start Radial	190.678	u sec	7913.750	8261.000
RAL	FB Thresh Far	10.000	mv	7913.750	8261.000
RAL	FB Thresh Near	4.000	mv	7913.750	8261.000
RAL	FB Thresh Radial	4.000	mv	7913.750	8261.000
RAL	Fluid Travel Time	200.000	u sec/ft	7913.750	8260.968

## DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-15.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
		AFAR	SIG	TT5			
1426XA	-14.380						



1426XA

-7.250

OCL

1426XA

-5.390

GR

1426XA

0.000

NEU

Created by : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : WILLIAMS PRODUCTION COMPANY

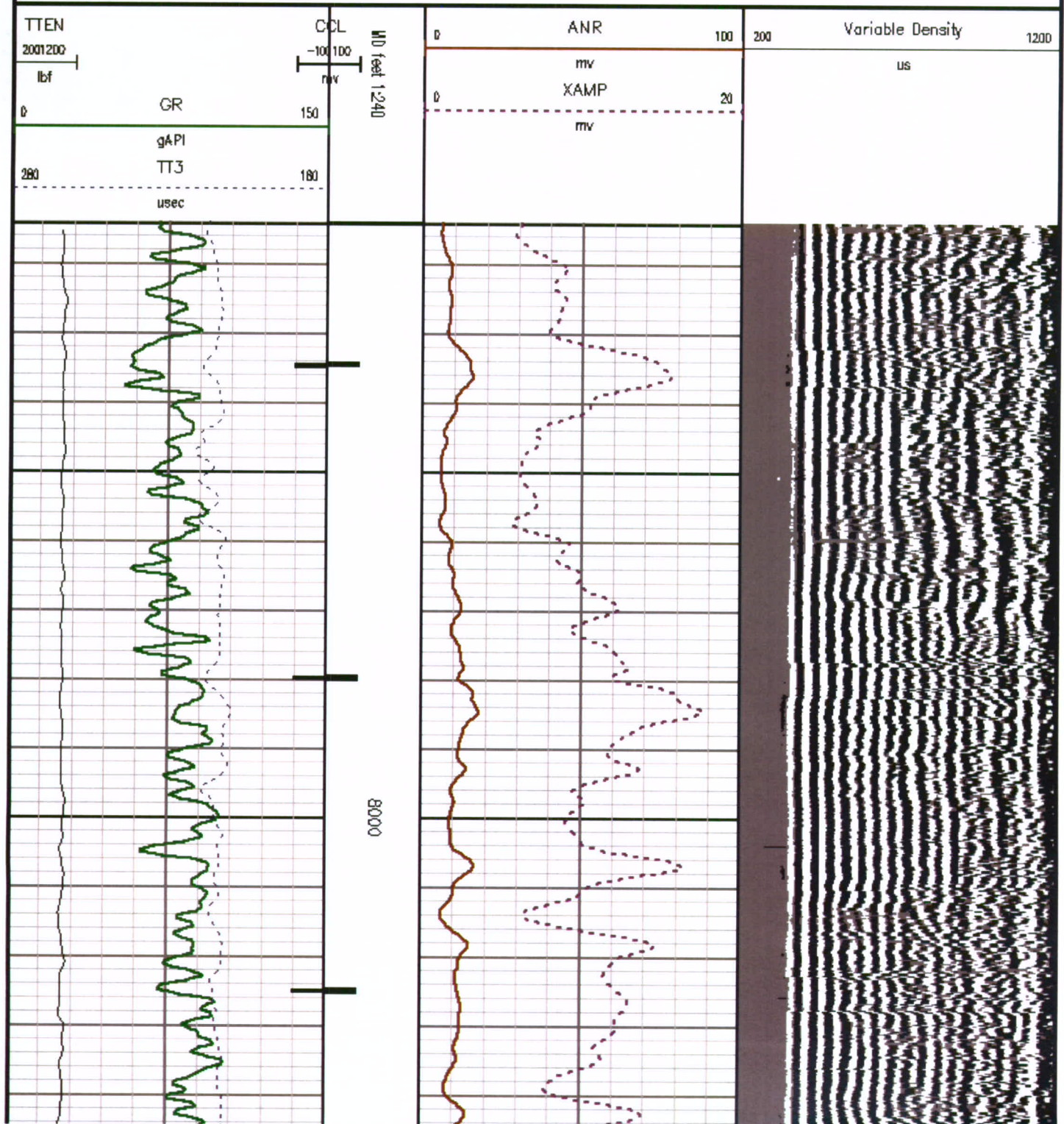
Well : KOKOPELLI SWD 9-12D

File Name : d:\welldata\12drad\repeat.xtf

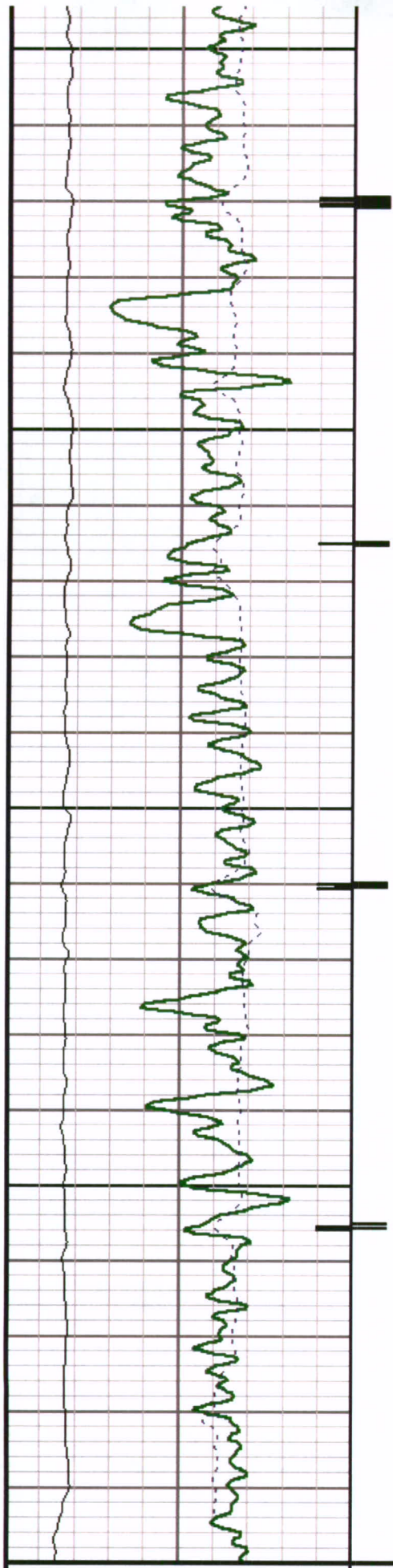
Mode : PlotMgr 5.4.504

Interval : 7914.00 - 8250.00 feet UP

Created : 9/22/2009 5:18:15 PM







8100

8200

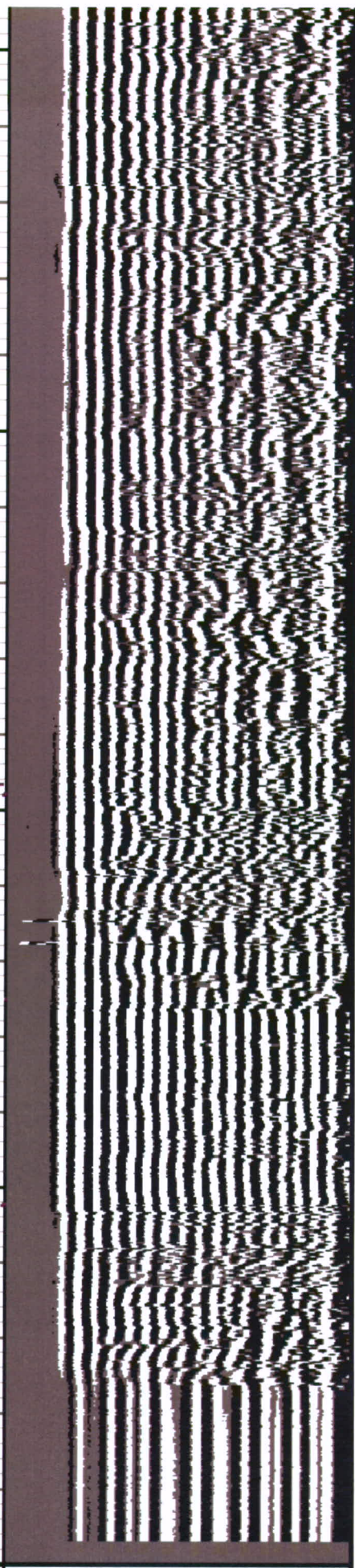
TEN  
2001200  
lb

CCL  
-100 100  
mv

MD feet 1:2



0 ANR 100  
mv  
0 XAMP 20



200 Variable Density 1200  
ua



0	gAPI	150	5	mv
280	TT3	180		
	uSec			

## CALIBRATION SUMMARY

## GAMMA RAY

Calibration File: C:\case\calver\GR\503SP.cal

### CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Sep 07 11:48:42 2009 TOOL SERIES: 1426XA ASSET: 503 SEQ: SP

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
BAKER BA-905	32.09	206.98	1.058	33.94	218.94	185.00

Verification File: C:\case\calver\GR\503SP.VP

### PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Mon Sep 07 11:50:49 2009 TOOL SERIES: 1426XA ASSET: 503 SEQ: SP

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
BAKER BA-905	33.91	206.18	1.058	35.87	218.10	182.23

## RALSHP

Shop Calibration: C:\case\calver\RAISHP\461529.shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Sep 22 16:24:15 2009 TOOL SERIES: 1426XA ASSET: 461 SEQ: 529

Tool Delay [uSec] -52.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER	Travel Time [uSec]	Amp. Gate Start [uSec]	Amp. Gate Width [uSec]	Zero Gate Start [uSec]	Zero Gate Width [uSec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	219	216	30	155	25	-0.217	100.00	0.14
3 Ft. Receiver	219	216	30	160	25	12.603	100.00	0.14
5 Ft. Receiver	327	325	30	196	30	0.445	150.00	0.14
Radial #1	220	217	30	157	25	8.933	100.00	0.14
Radial #2	219	217	30	157	25	8.439	100.00	0.13



Radial #3	219	217	30	157	25	11.261	100.00	0.14
Radial #4	219	217	30	157	25	13.508	100.00	0.14
Radial #5	219	217	30	157	25	10.933	100.00	0.14
Radial #6	219	217	30	157	25	11.353	100.00	0.14
Radial #7	219	217	30	157	25	9.111	100.00	0.14
Radial #8	221	217	30	157	25	5.844	100.00	0.14

## RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\451S29 fld.cal

### WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Sep 22 16:32:43 2009 TOOL SERIES: 1426XA ASSET: 451 SEQ: S29

Tool Delay [usec] -52.00 Casing OD in 5.50 Casing Wt lbm/ft 15.50 Casing ID in 4.95

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	155	25	-0.003	0.000	1.00	100.000
3 Ft. Receiver	216	25	0.106			
5 Ft. Receiver	332	25	0.350			
Radial #1	216	25	0.178			
Radial #2	216	25	0.217			
Radial #3	216	25	0.230			
Radial #4	216	25	0.176			
Radial #5	216	25	0.157			
Radial #6	216	25	0.168			
Radial #7	216	25	0.208			
Radial #8	216	25	0.149			

## TOOL DIAGRAM

OTA SHORT CABLE HEAD

### CENTRALIZER

Series RALCENT  
Mnemonic CENT  
Diameter 3.12"  
Weight 20.00 lb



30.09'



**PROBE 2 3/4 DUAL RECEIVER RADII**

Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

**CENTRALIZER**

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

**Probe GR/CCL/NEU**

Series	2459XA
Mnemonic	PROB
Diameter	2.75"
Length	9.42'
Measure Point	1.21' NEU
Measure Point	6.60' GR
Measure Point	8.46' CCL

**CENTRALIZER**

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

Total Length: 30.09'  
Total Weight: Not Available  
Max Diameter: 0' 3.12"

XMIT	21.02'
NEAR RCVR	17.94'
FAR RCVR	16.02'
CCL	11.43'
GR	9.57'
NEU	4.18'
	0.00'



Baker Atlas



Company **WILLIAMS PRODUCTION COMPANY**

Well **KOKOPELLI SWD 9-12D**

Field **JOLLEY**

County **GARFIELD** State **COLORADO**

Location

SHL: NOT PROVIDED

BHL: NOT PROVIDED

SEC **8** TWP **6S** RGE **91W**

Elevations

KB 6573 ft

DF 6574 ft

GL 6556 ft

File No:

1397

API No:

06-046-18532

8 6S 91W

JOLLEY 8-1 PAD