

045-14366

GA

BAKER HUGHES

Baker Atlas

**RADIAL ANALYSIS
BOND LOG**

File No: 13794
 API No: 02-046-14395
 Company: CONOCOPHILLIPS
 Well: NPM #CP08A-05 A05 596
 Field: NORTH PARACHUTE CREEK
 County: GARFIELD State: COLORADO

Location: S41: 470' N14 & 499' FEL NE/NE
 B14: 1860' N14 & 330' FEL SE/NE
 SEC 5 TWP 55 RGE 98E
 Other Services: NONE

Permanent Datum: G.L. Elevation: 8402 ft
 Log Measured From: K.B. 18 ft Above P.D.
 Drill Measured From: KELLY BUSHING
 Elevations: KB 8420 ft, DF 8419 ft, GL 8402 ft

Date	06-FEB-2008	Run	ONE
Service Order	S47257	Depth Driller	10881 ft
Depth Logger	10853 ft	Bottom Logged Interval	10853 ft
Top Logged Interval	5458 ft	Time Started	13:30
Time Finished	16:30	Operator Rig Time	4 hrs
Type of Fluid in Hole	WATER	Fluid Density	N/A
Fluid Density	N/A	Safety	N/A
Fluid Level	NULL	Logged Cement Top	8830 ft
Wellhead Pressure	0 psi	Maximum Hole Deviation	N/A
Maximum Logging Speed	40 fpm	Maximum Recorded Temperature	278 degF
Reference Log	BY GR-OH-DEU	Reference Log Date	29-SEPT-07
Equipment No.	9054	Location	GRAVY JCT, CO
Recorded By	TIM KAULT	Witnessed By	MR. DON CARLSON

- RZD HERE

RECEIVED
 SEP 02 2008
 COGCC

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.

Bit Size	From	To
8.125 in		

Size	Weight	Grade	From	To
4.5 in	11.8 lbm/ft	P-110	SURFACE	10881 ft

Remarks
 TO COME BACK TO SURFACE WITH BAILING WIRE RAPPED IN CENTRALIZERS
 SAT DOWN WITH SBT @ 4990
 THE CREW OF 8054 THANKS YOU.

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	WANDRAL	1426XA	1012402B	CENTRALIZED

MAIN SECTION
 SECONDARY PRESENTATION
 0 # PSI

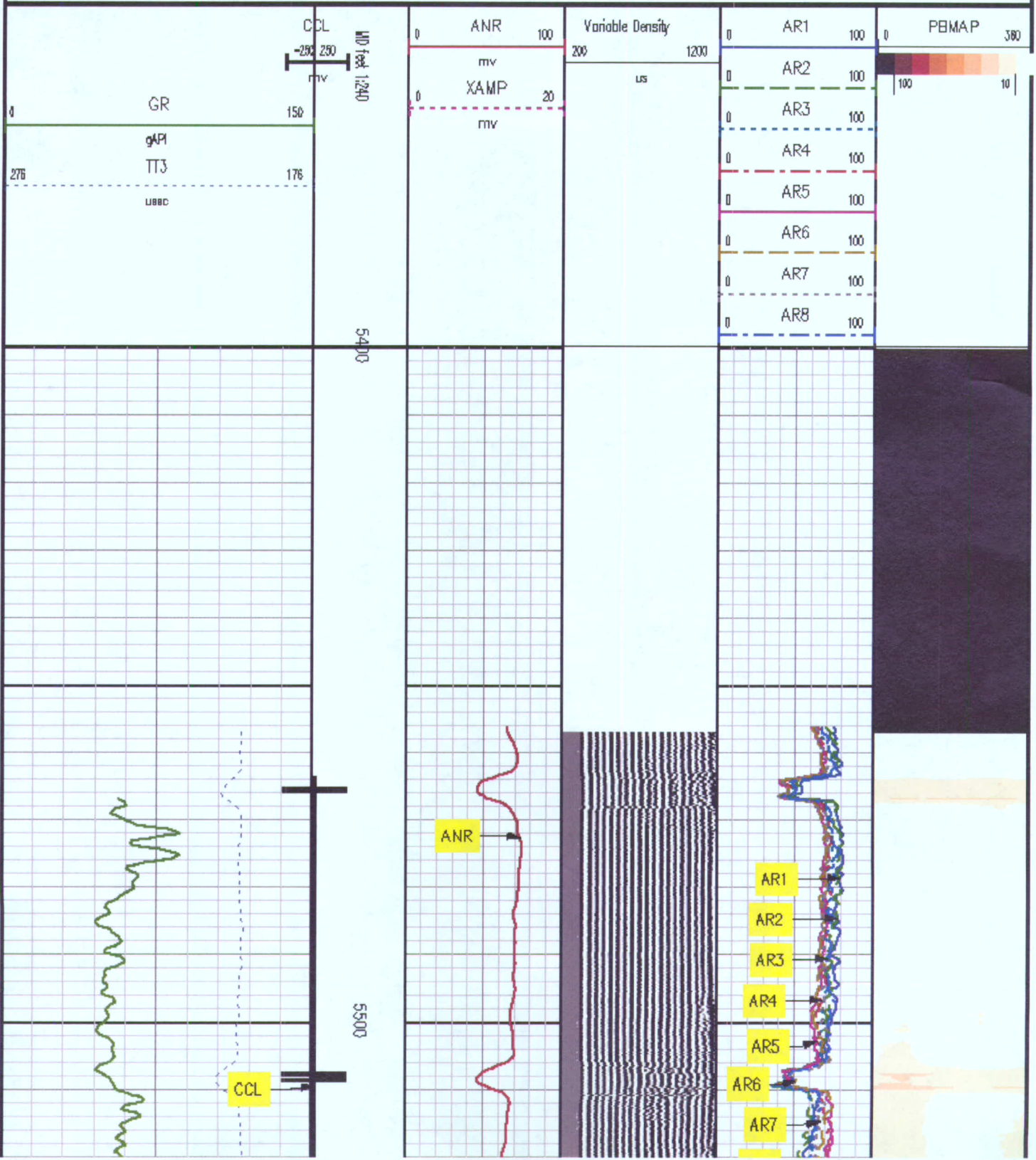
RECEIVED
 SEP 02 2008
 COGCC

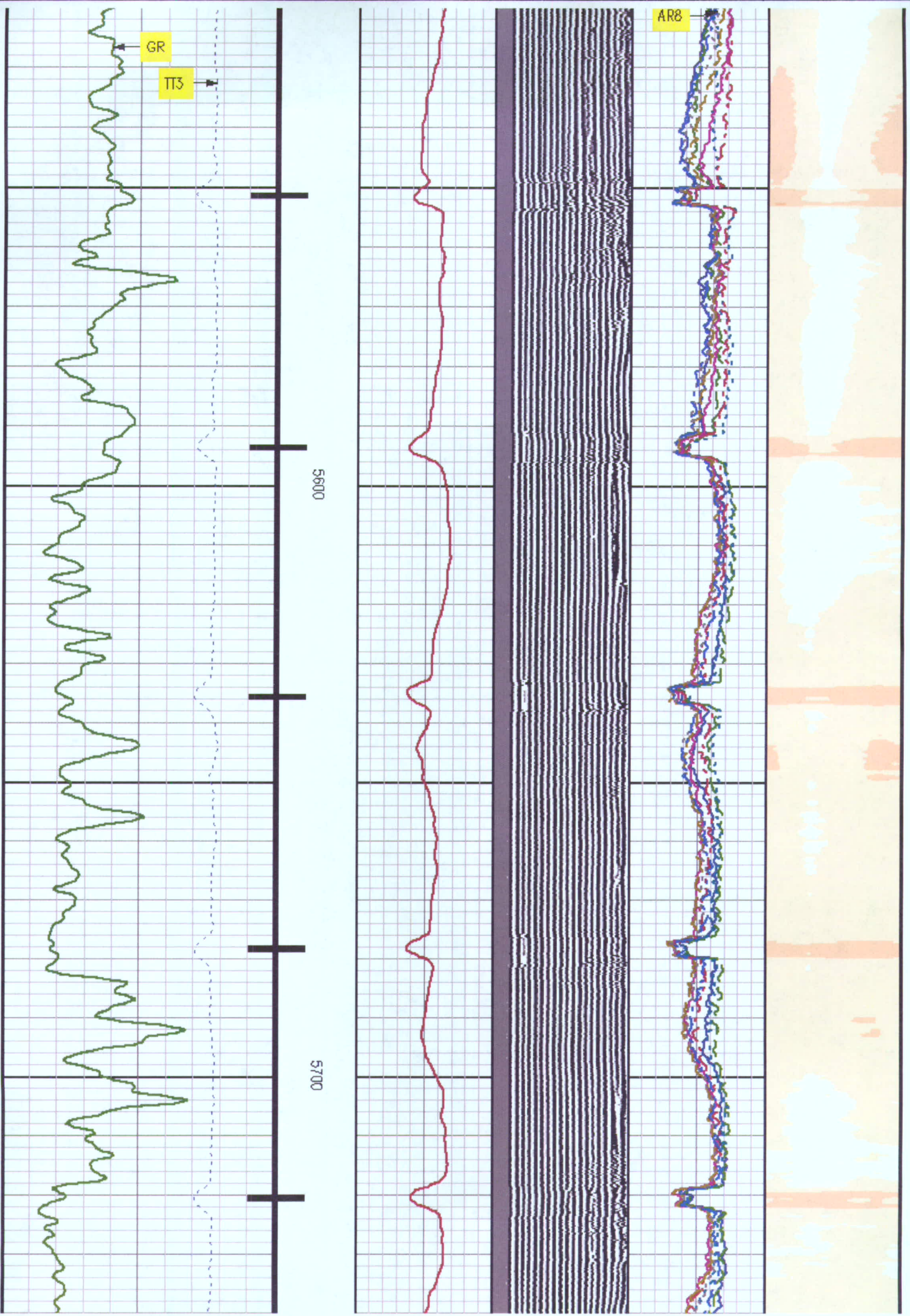
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	316.900	usec	5470.750	7579.000
RAL	Amp Gate Start Near	200.391	usec	5470.750	7579.000
RAL	Amp Gate Start Radial	200.391	usec	5470.750	7579.000
RAL	Amp Gate Width Far	25.000	usec	5470.750	7579.000
RAL	Amp Gate Width Near	25.000	usec	5470.750	7579.000
RAL	Amp Gate Width Radial	25.000	usec	5470.750	7579.000
RAL	casing od	4.500	inches	5470.750	7579.000
RAL	casing wt	11.600	lbm/ft	5470.750	7579.000
RAL	FB Start Far	291.900	usec	5470.750	7579.000
RAL	FB Start Near	175.391	usec	5470.750	7579.000
RAL	FB Start Radial	175.391	usec	5470.750	7579.000
RAL	FB Thresh Far	15.000	mv	5470.750	7579.000
RAL	FB Thresh Near	10.000	mv	5470.750	7579.000
RAL	FB Thresh Radial	10.000	mv	5470.750	7579.000
RAL	Fluid Travel Time	200.000	usec/ft	5470.750	7578.869

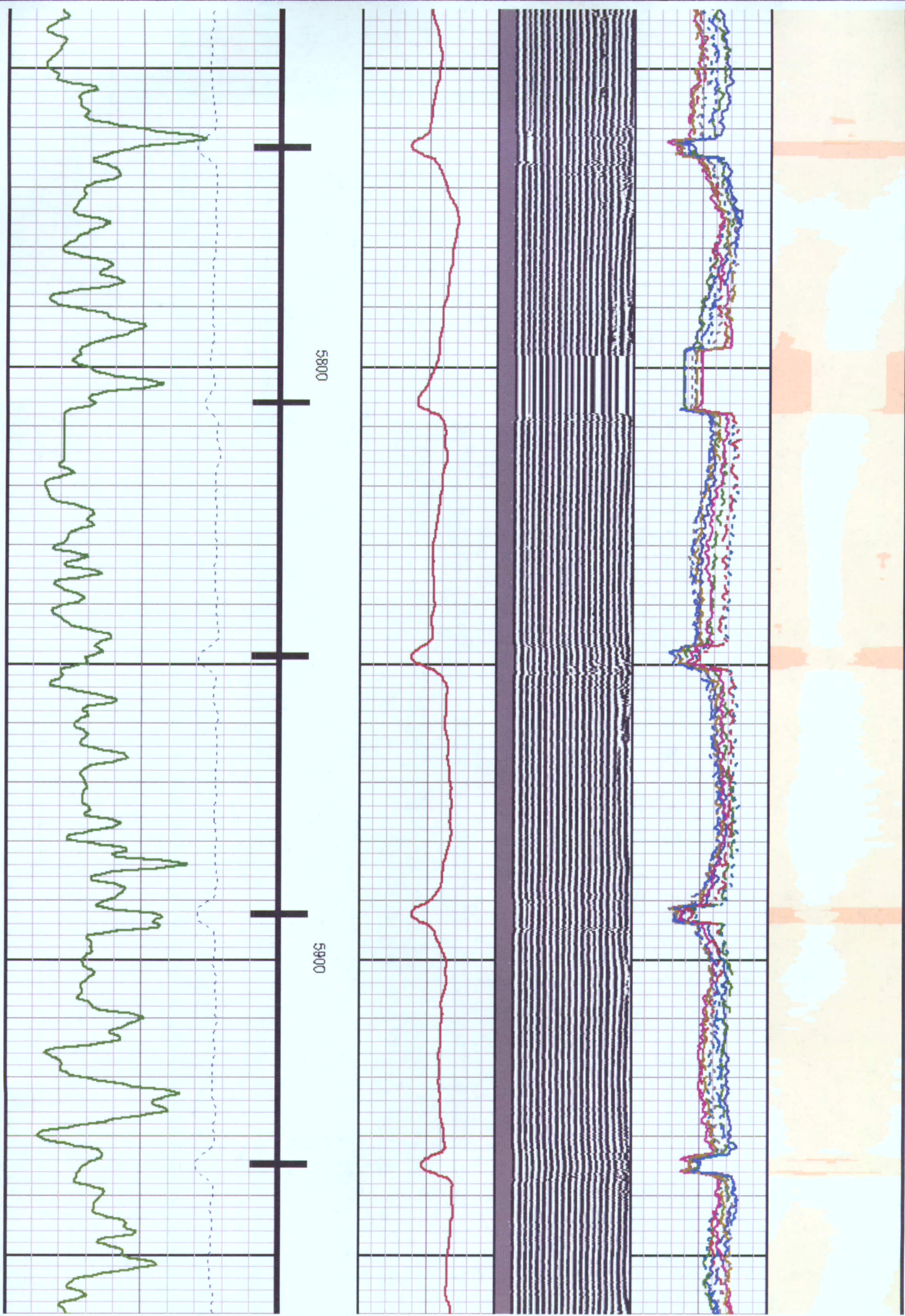
DEPTH OFFSETS
 (for Acquired Curves)

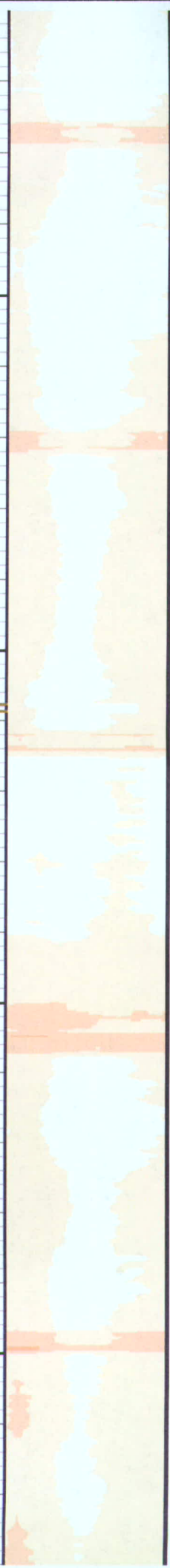
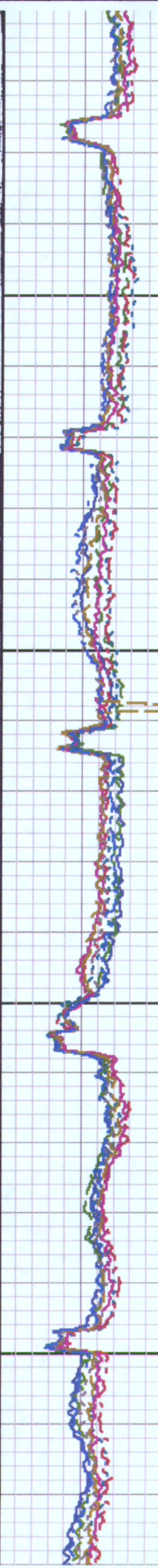
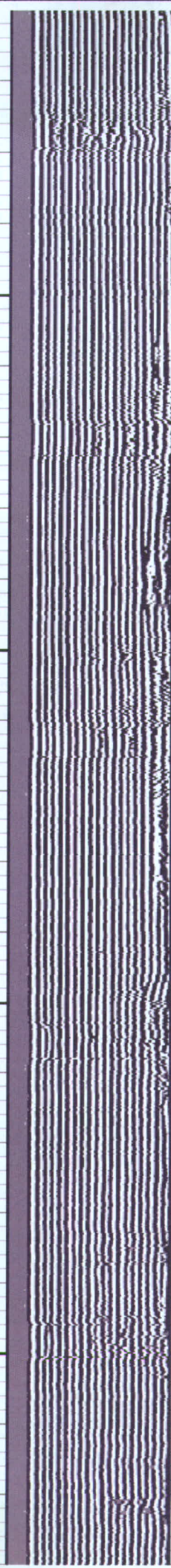
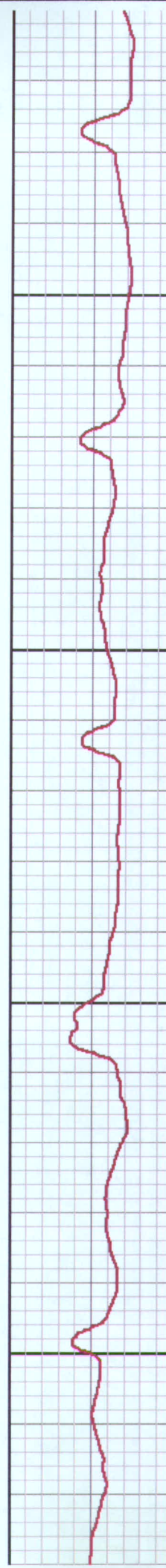
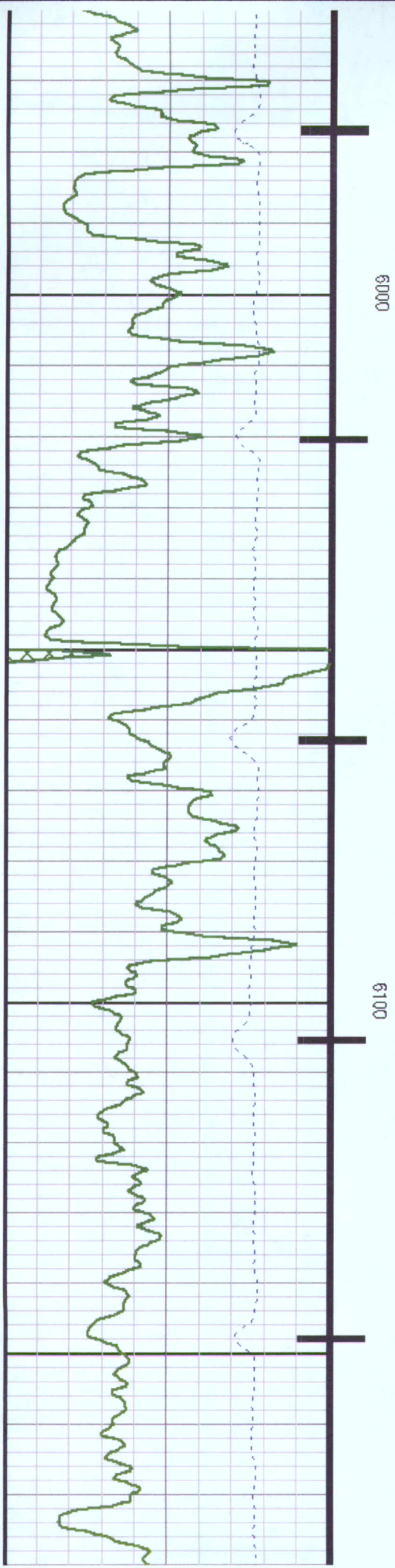
SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-15.360	ACAL	ANR	AR1	AR2	AR3	AR4		
		AR5	AR6	AR7	AR8	CHV	FPR2		
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3		
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP		
		AFAR	SIG	TT5					
1426XA	-14.360								
1426XA	-7.250	OCL							
1426XA	-5.390	GR							

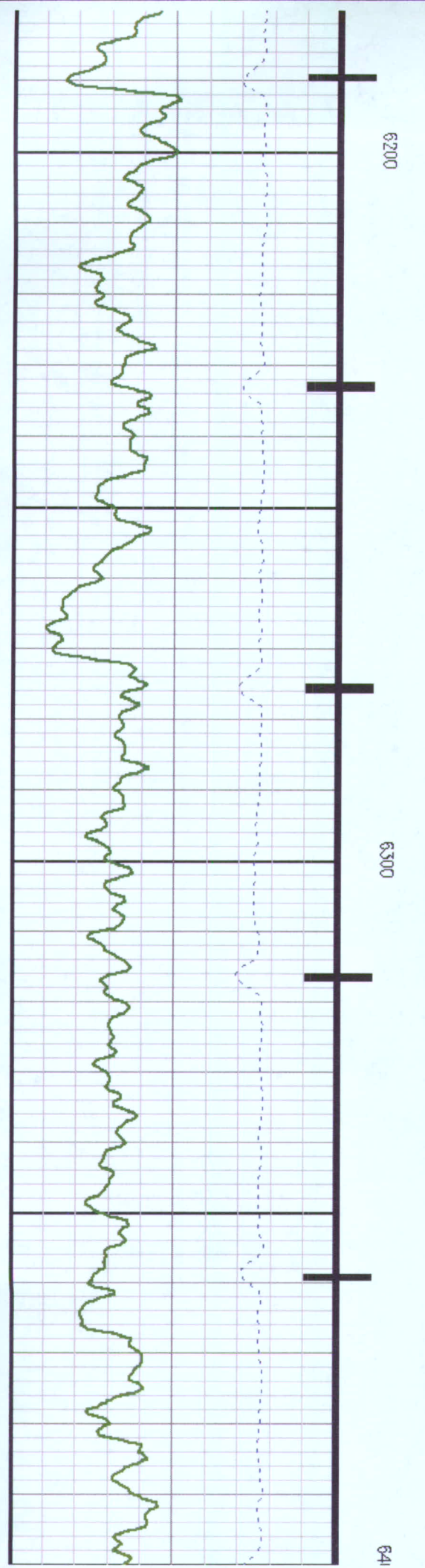
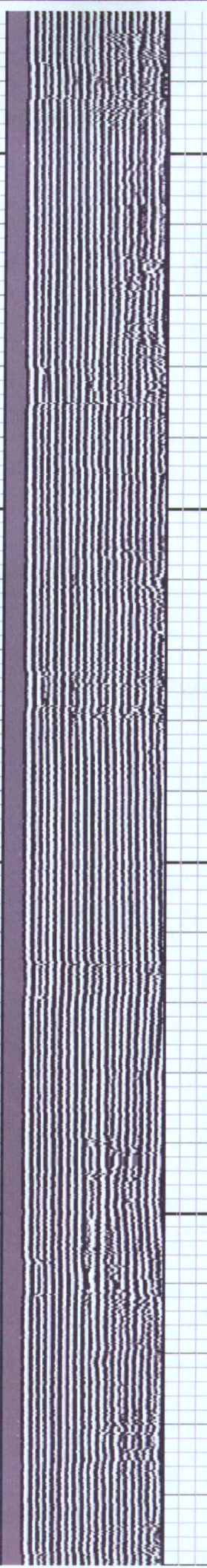
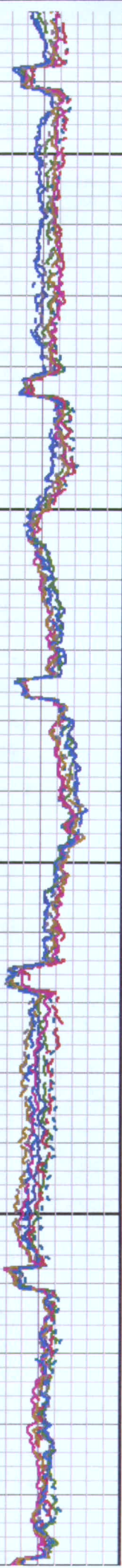
Created by : RAL, v4.8.007
 Plotted by : PlotMgr, v5.4.504
 Company : CONOCOPhillips
 Well : NPM #CP08A-05 A05 596
 File Name : d:\well\data\Brad\main2.xtf
 Mode : PlotMgr 5.4.504
 Interval : 5400.00 - 10869.50 feet UP
 Created : 2/6/2008 3:46:33 PM

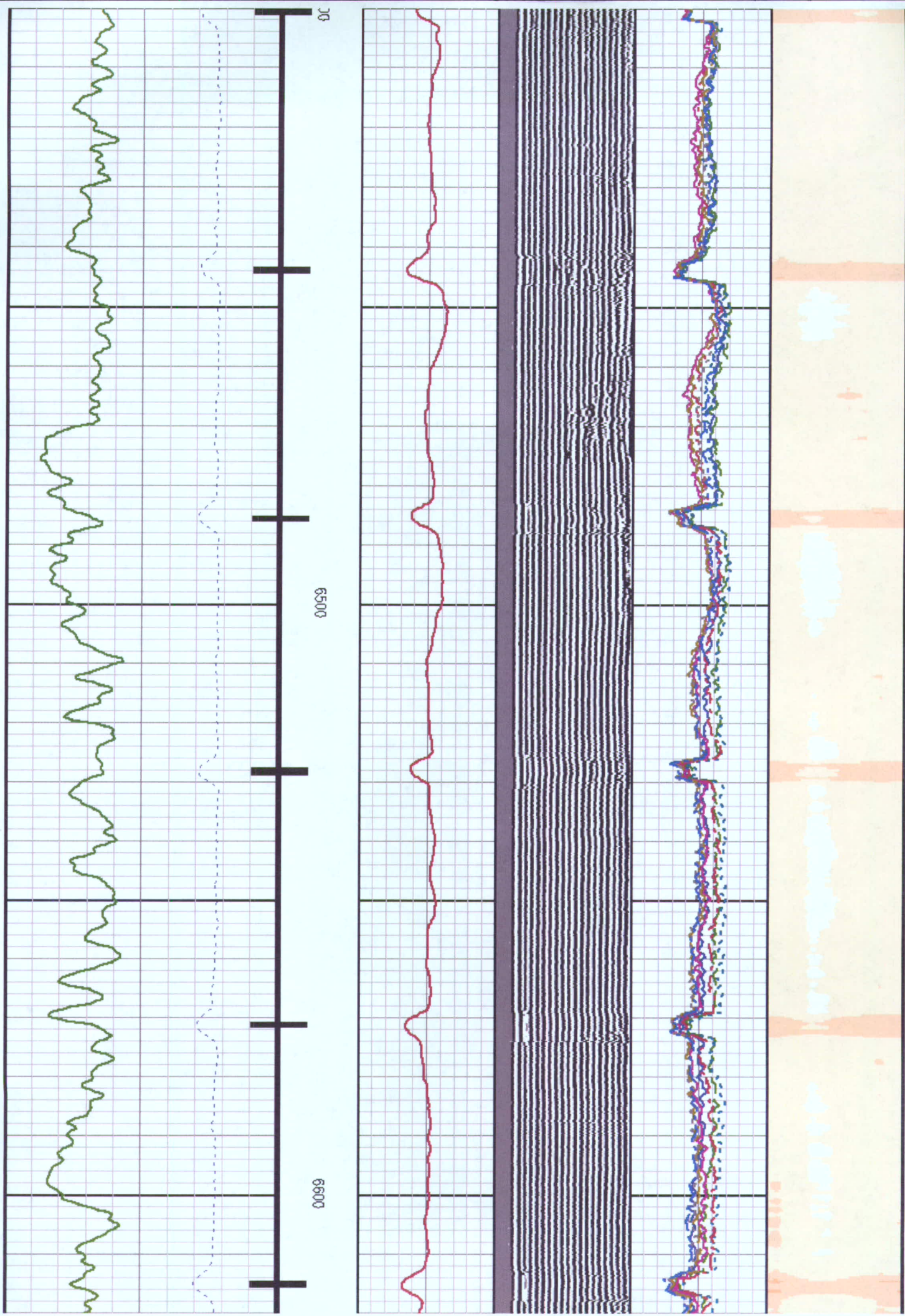


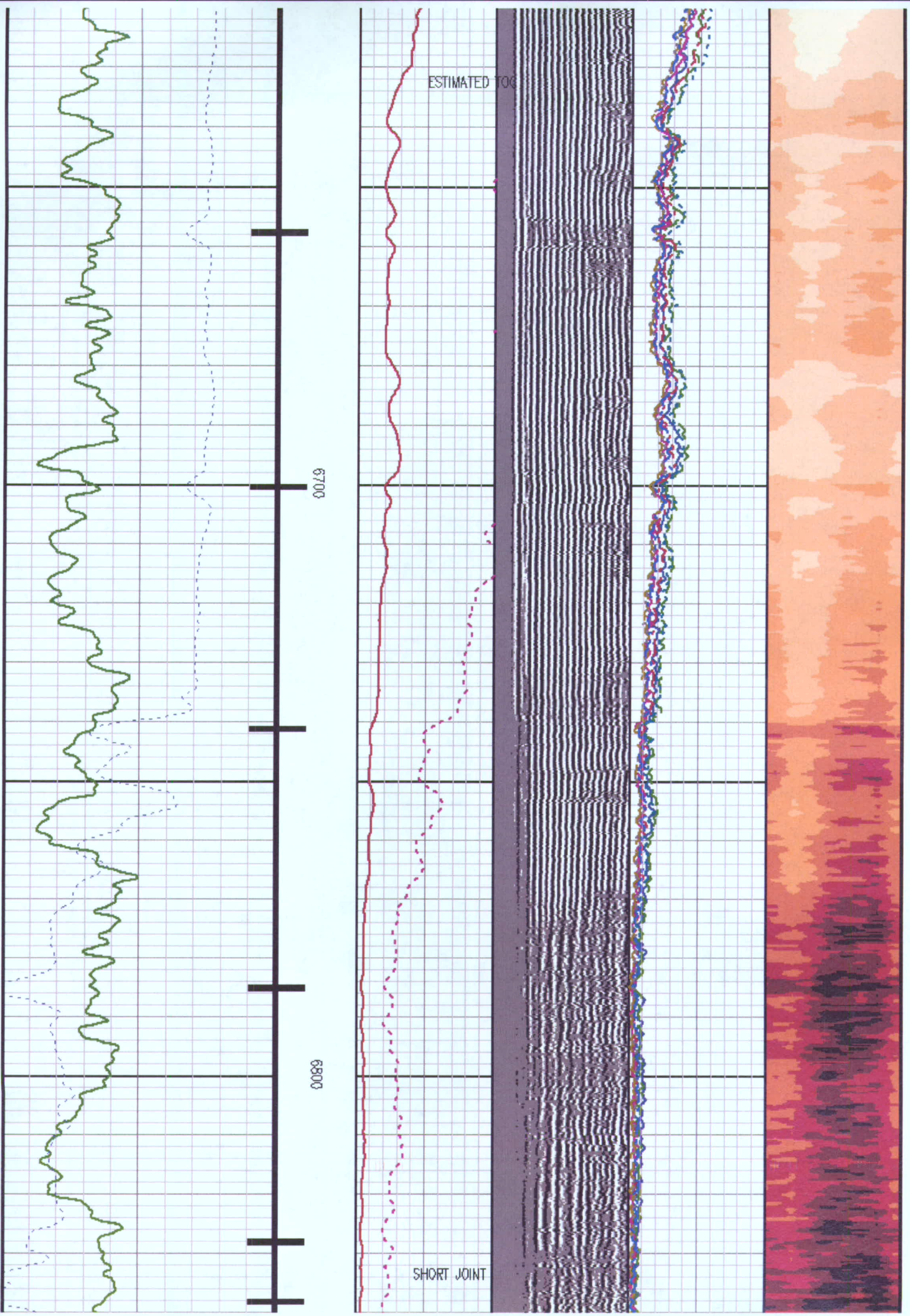


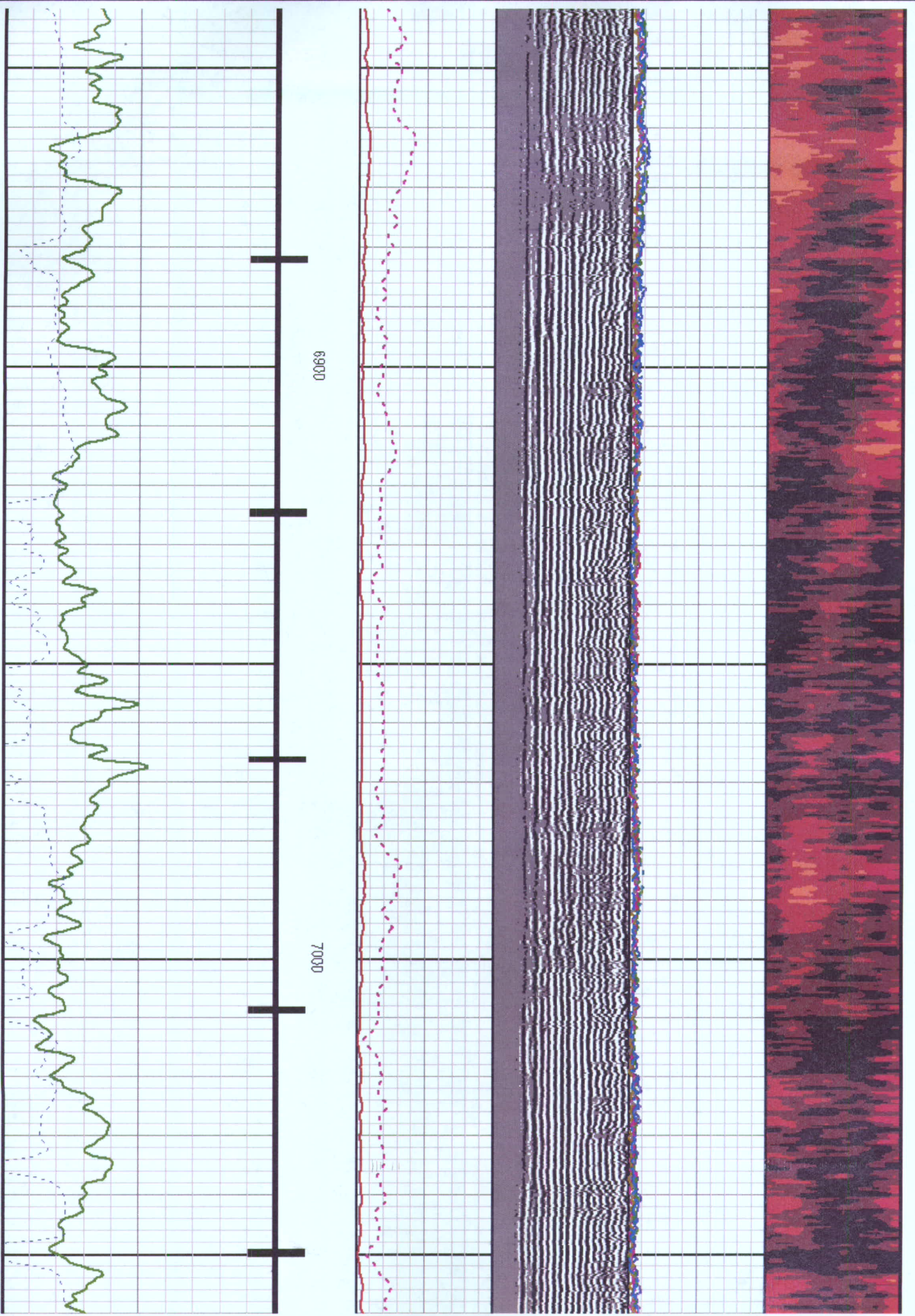


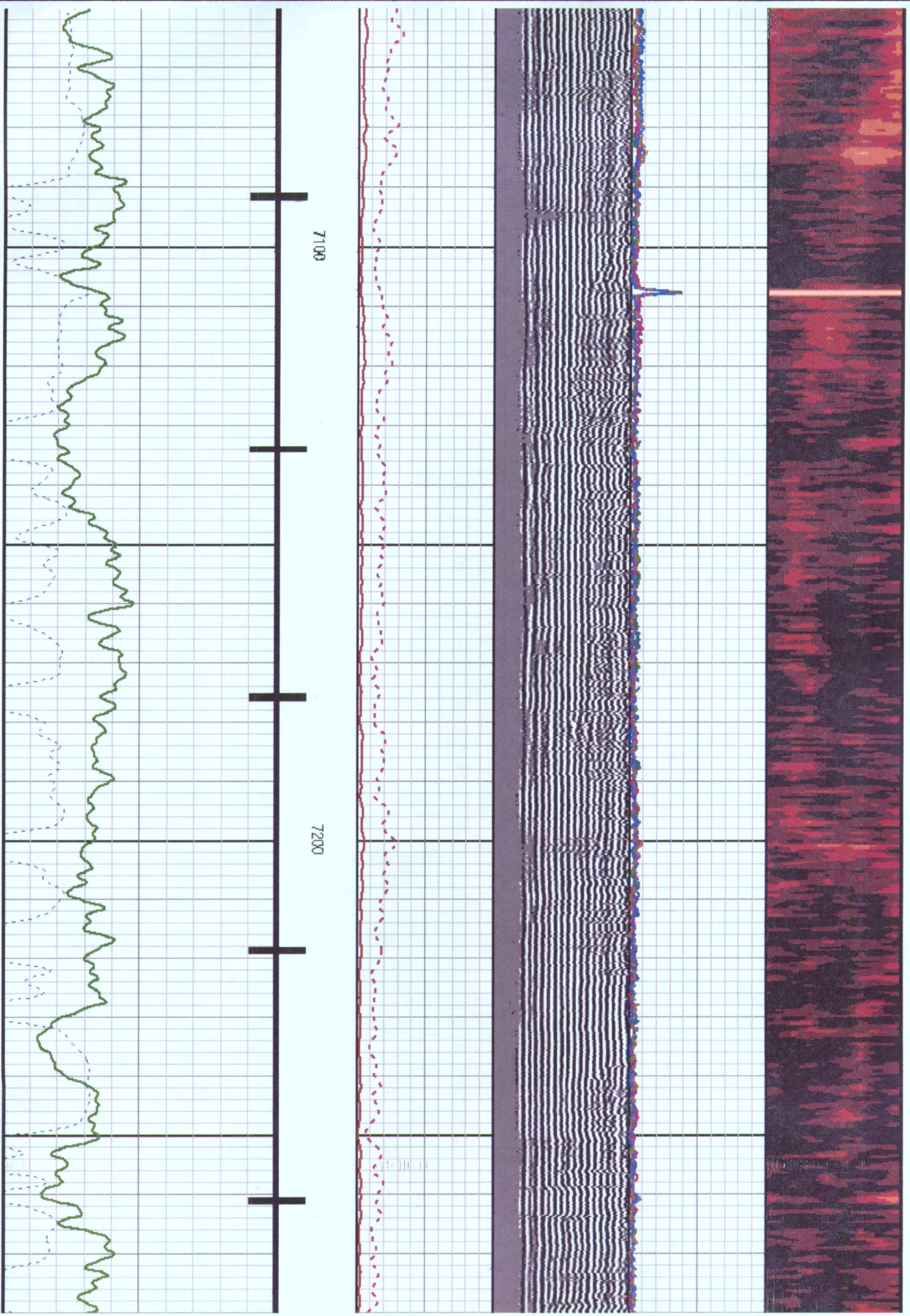


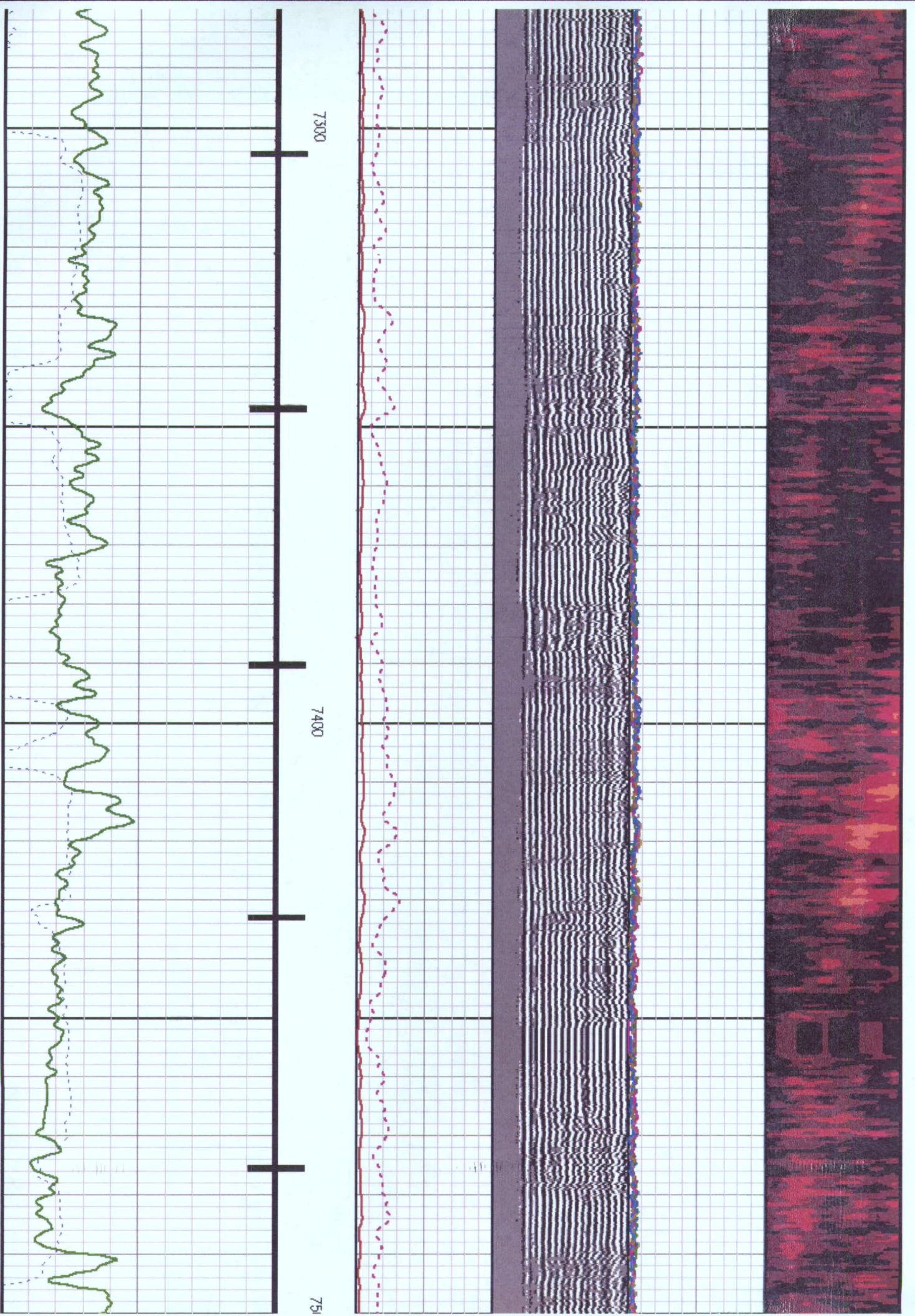


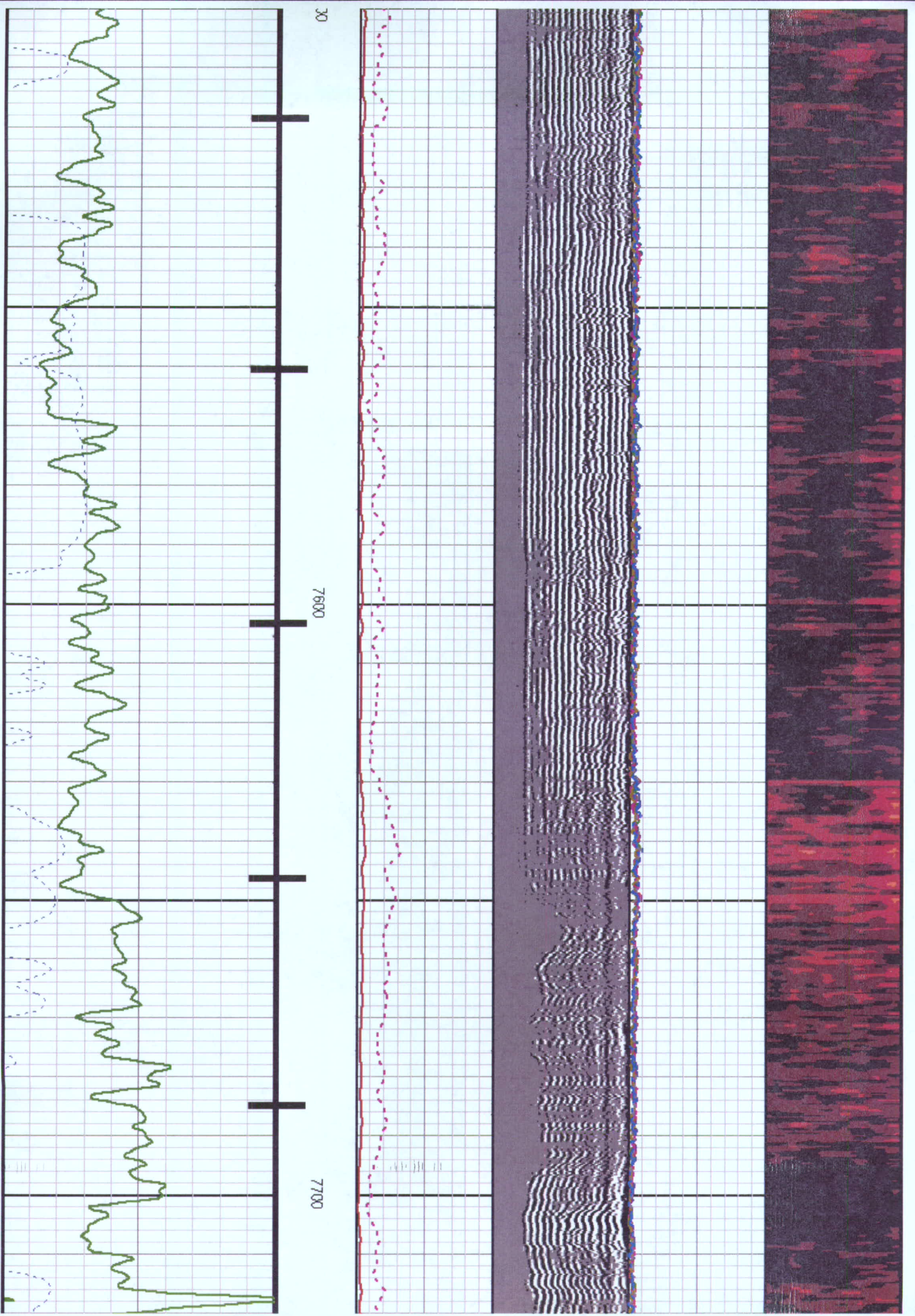


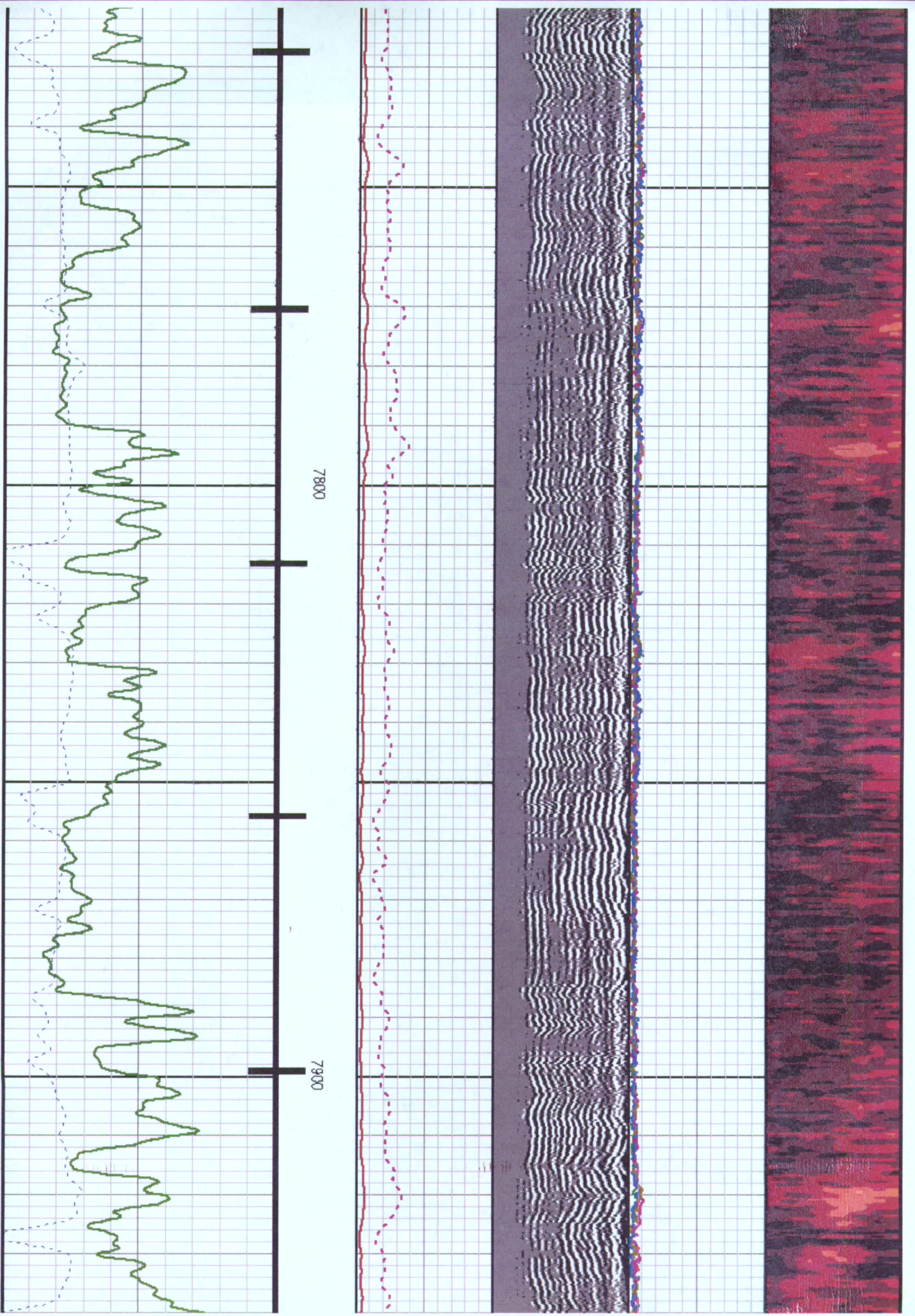


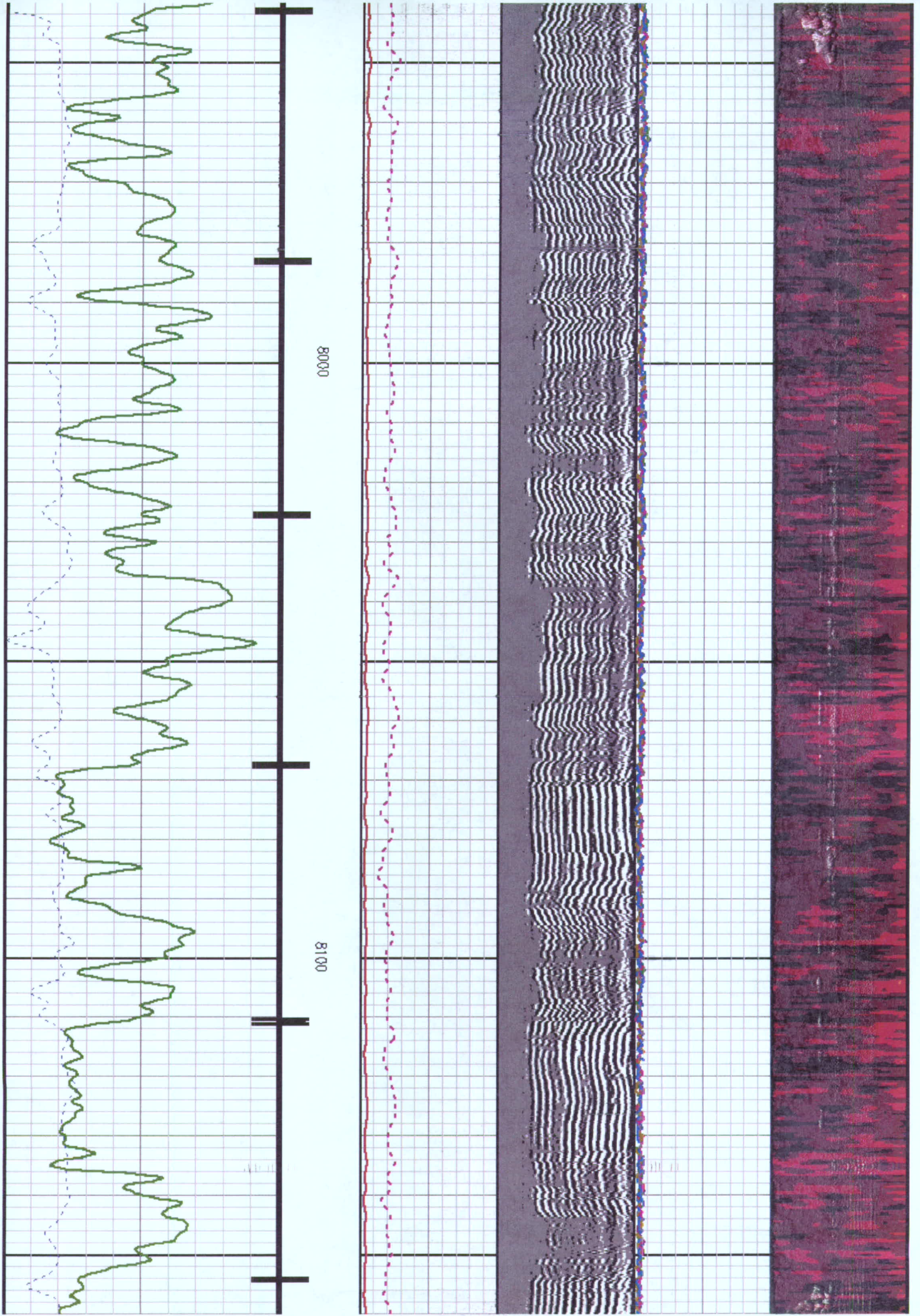


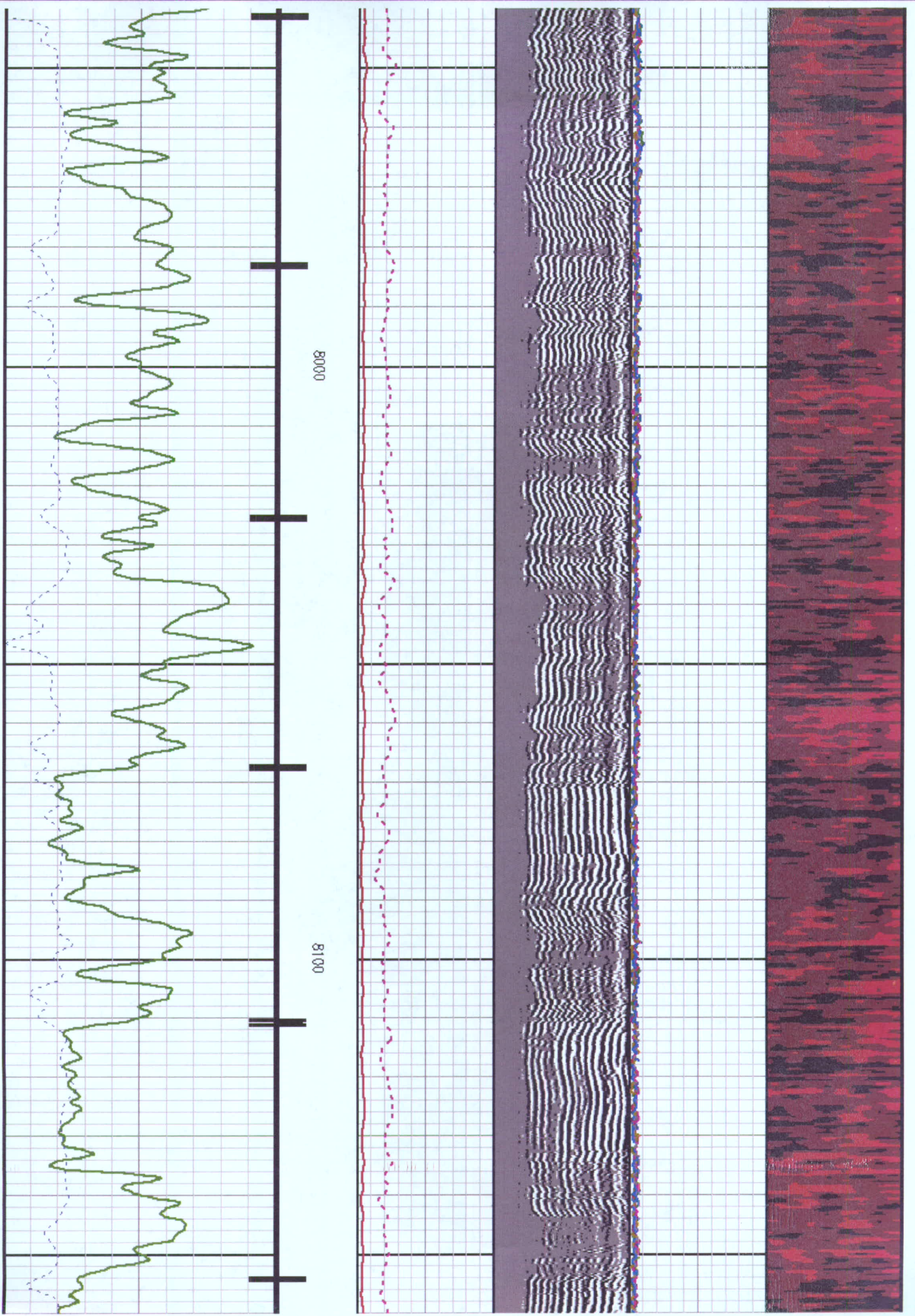


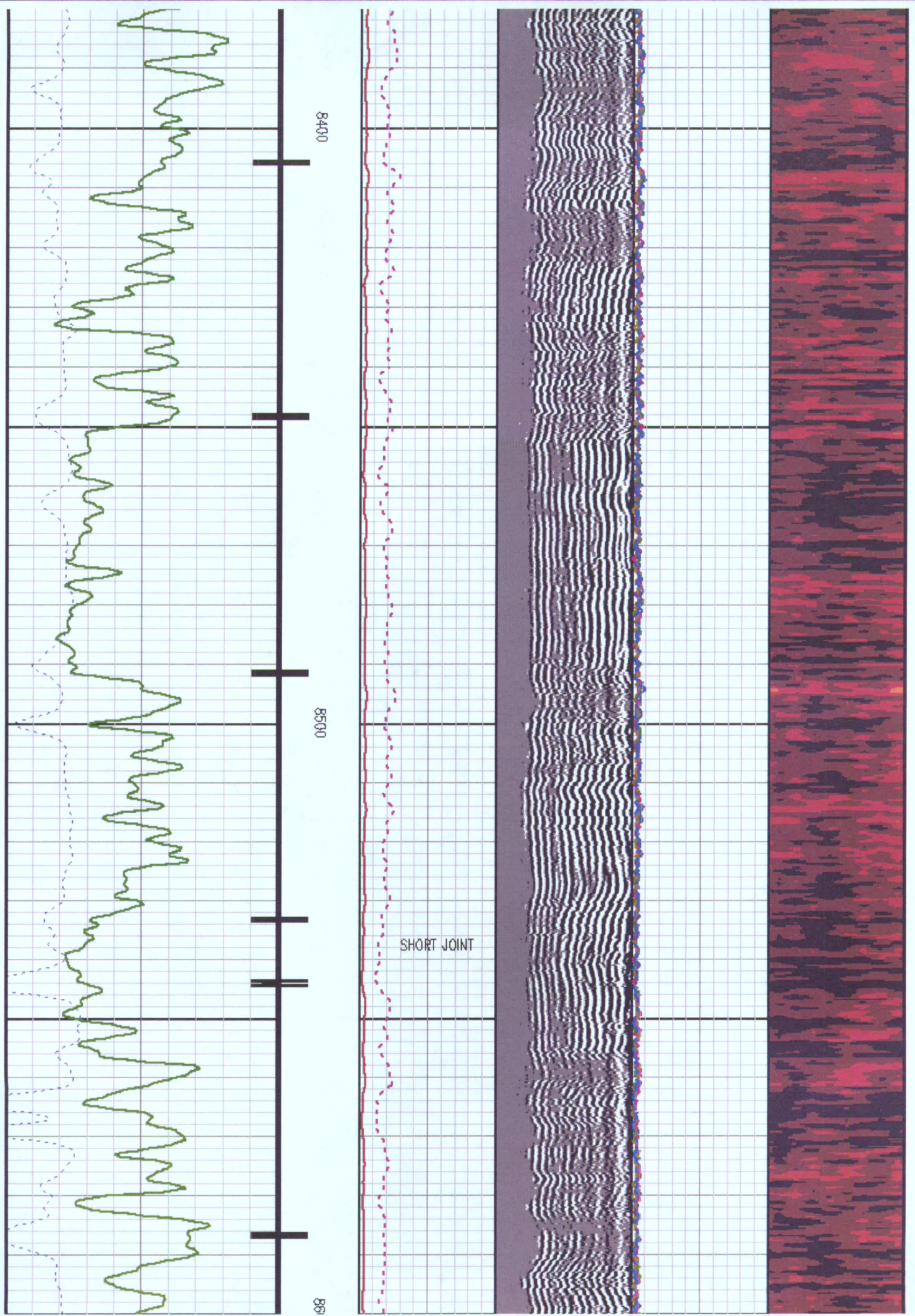


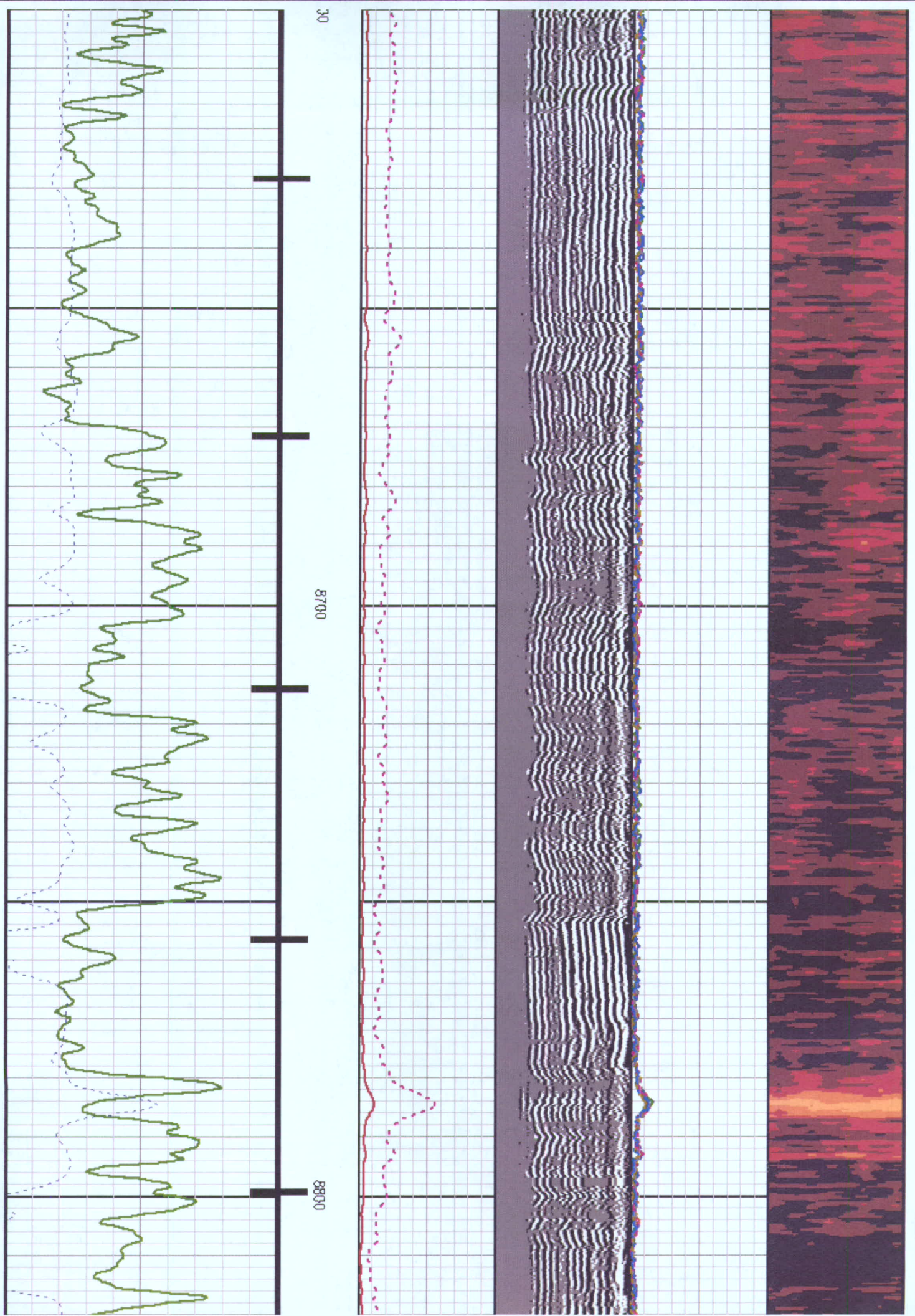


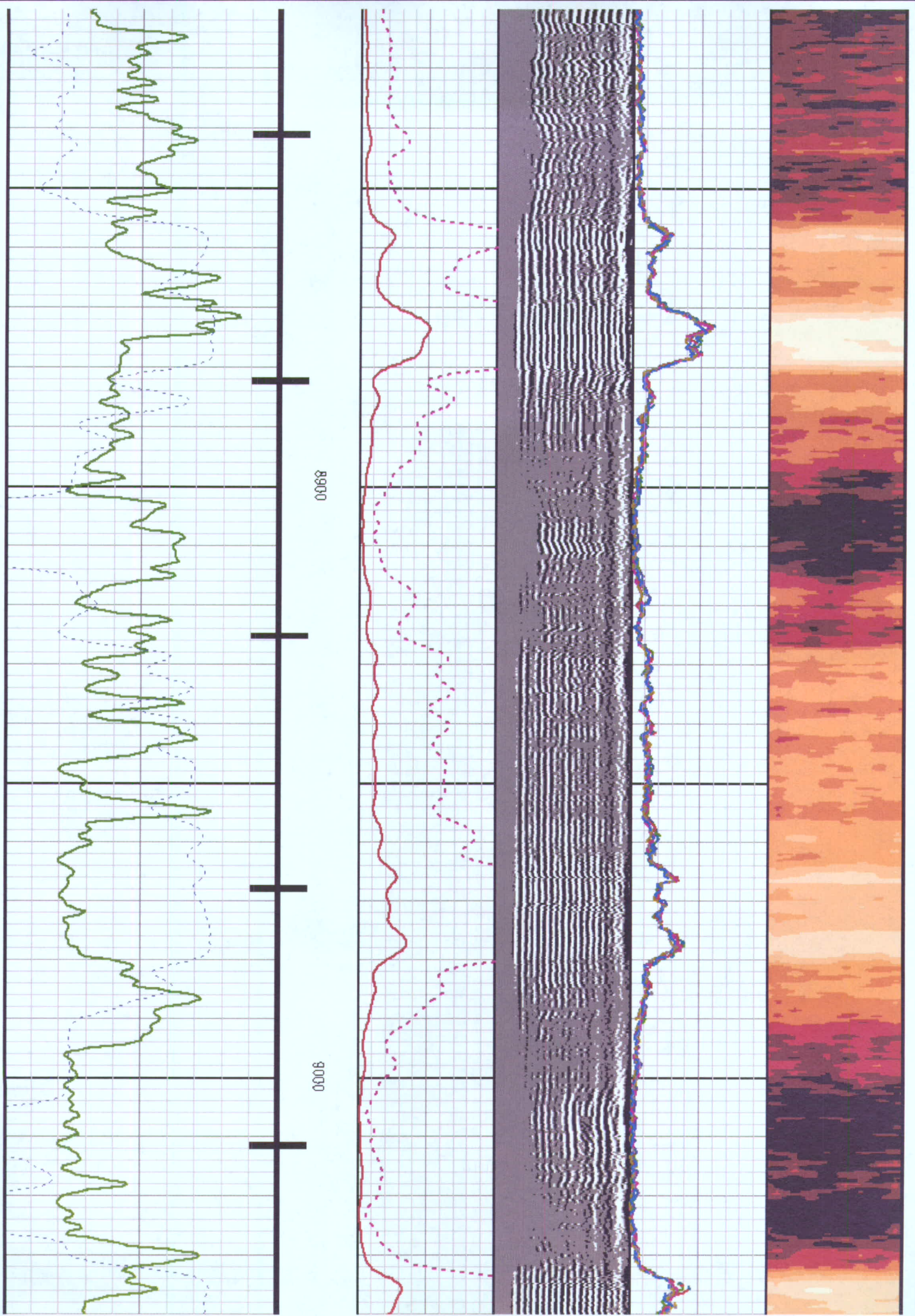


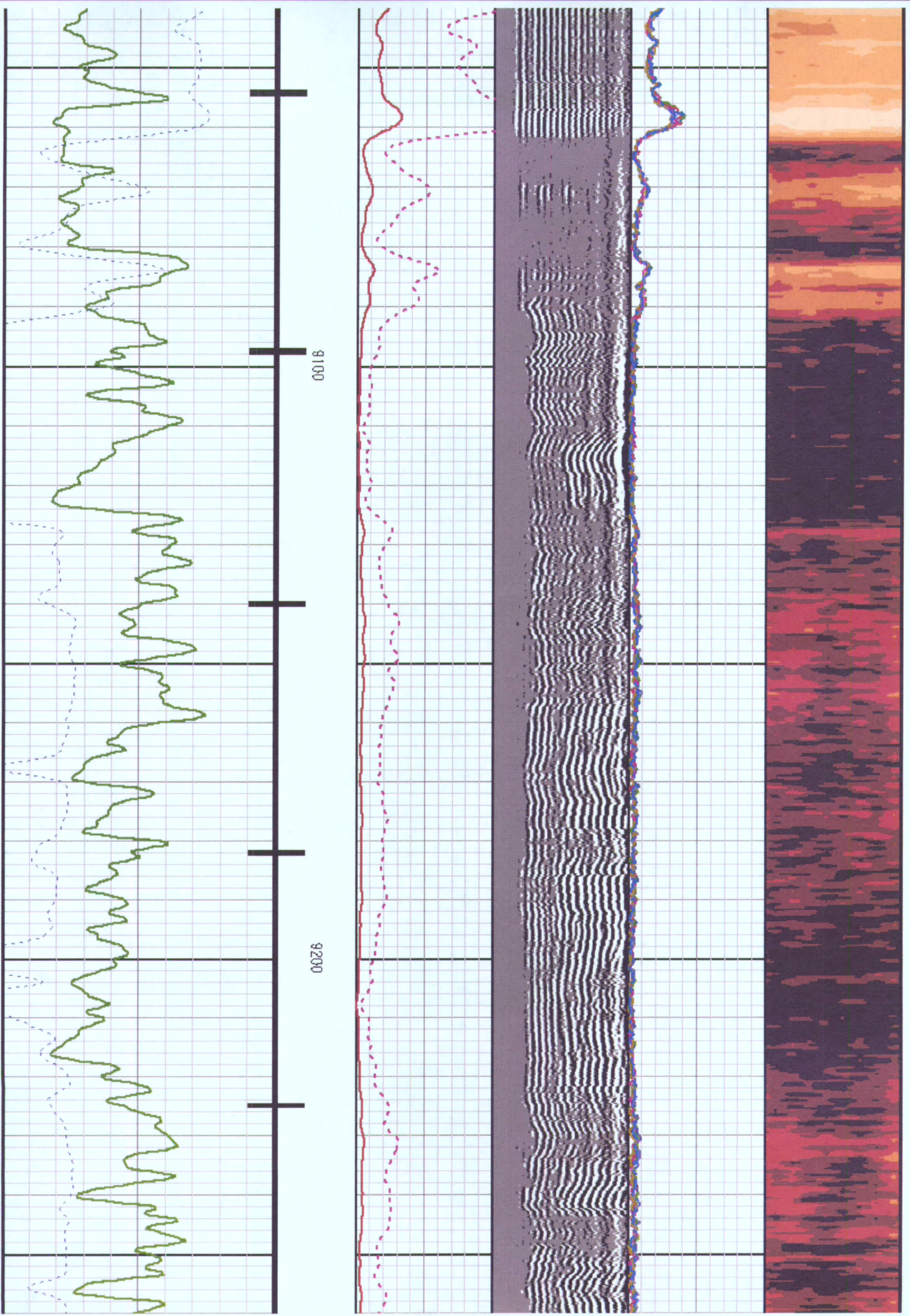


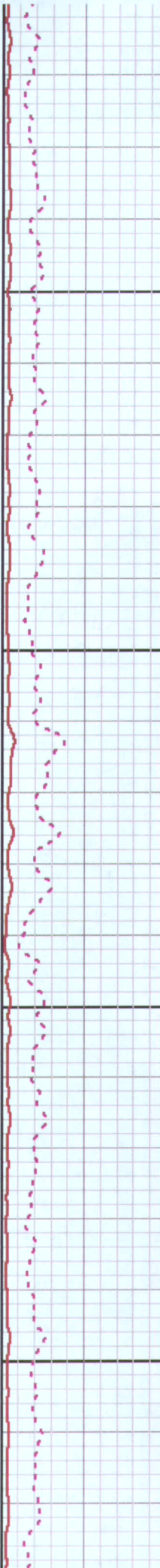
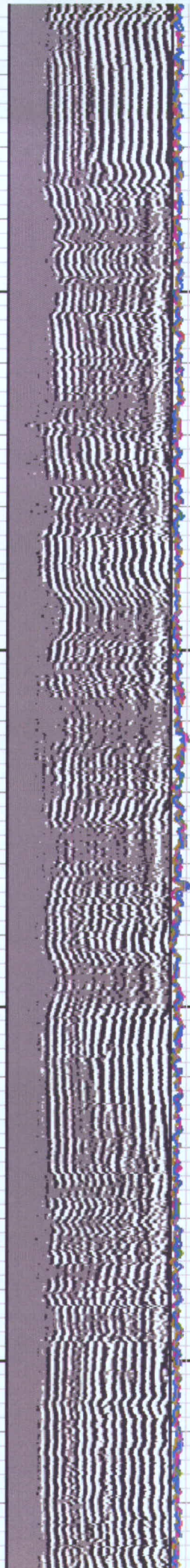






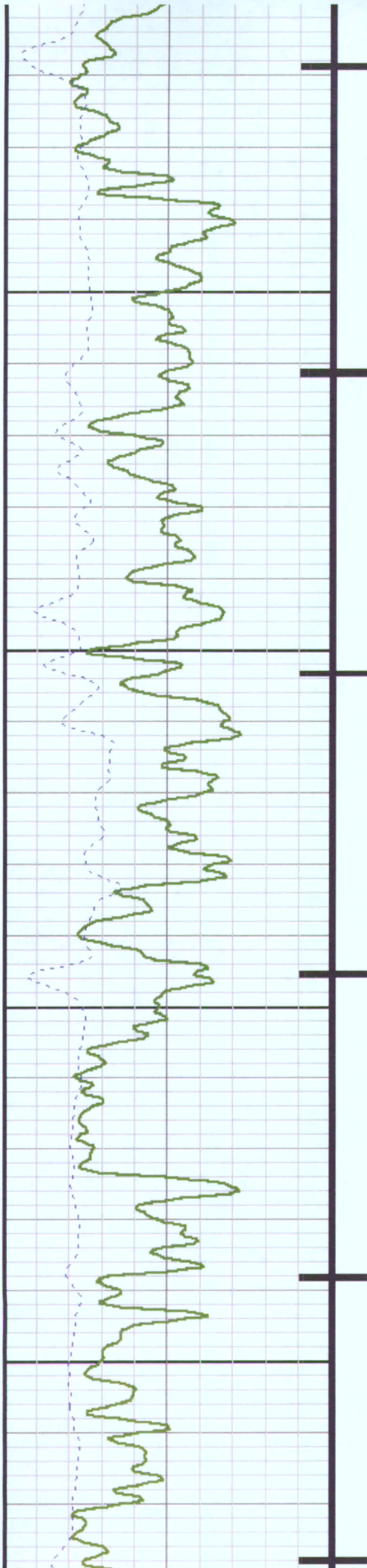


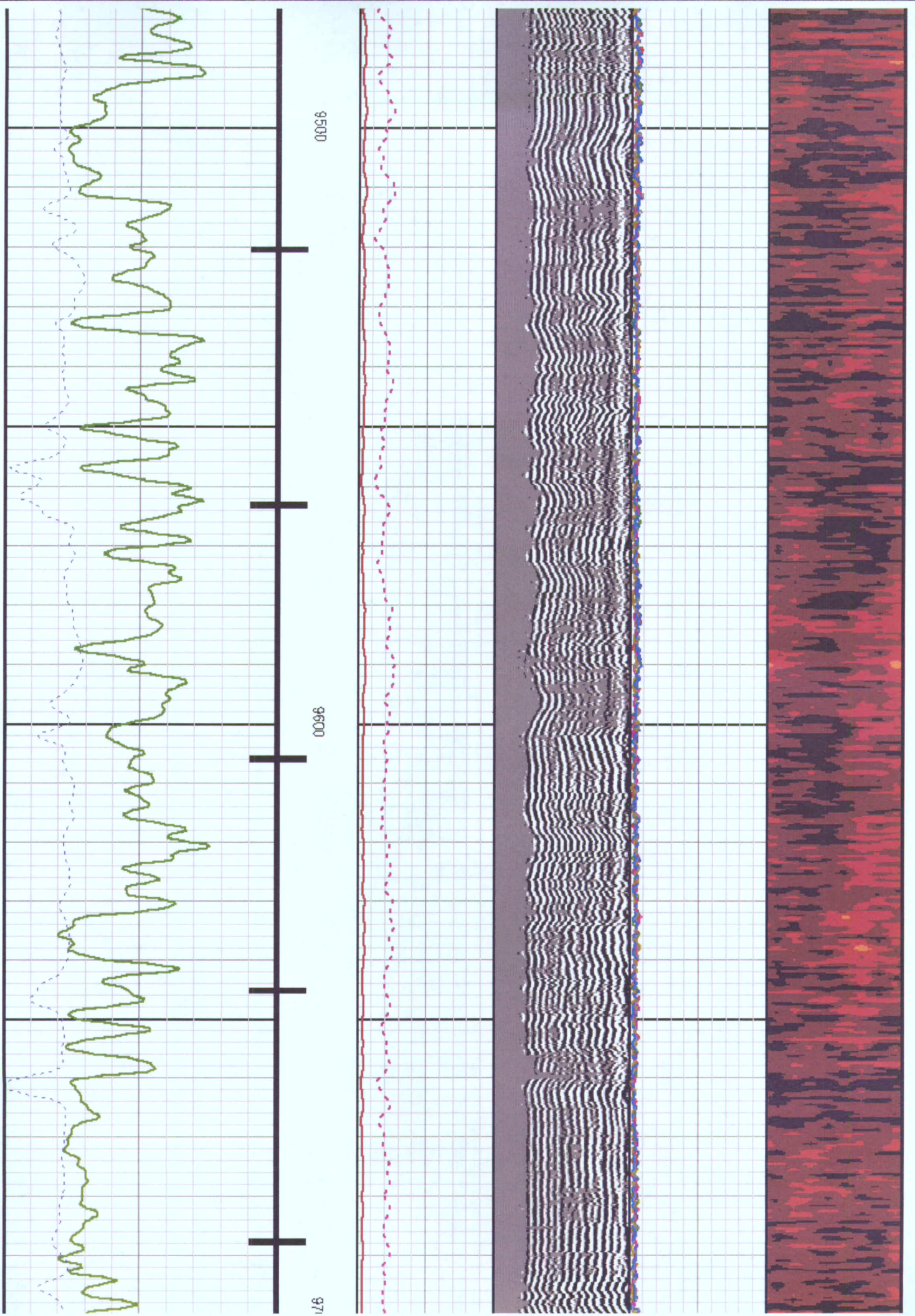


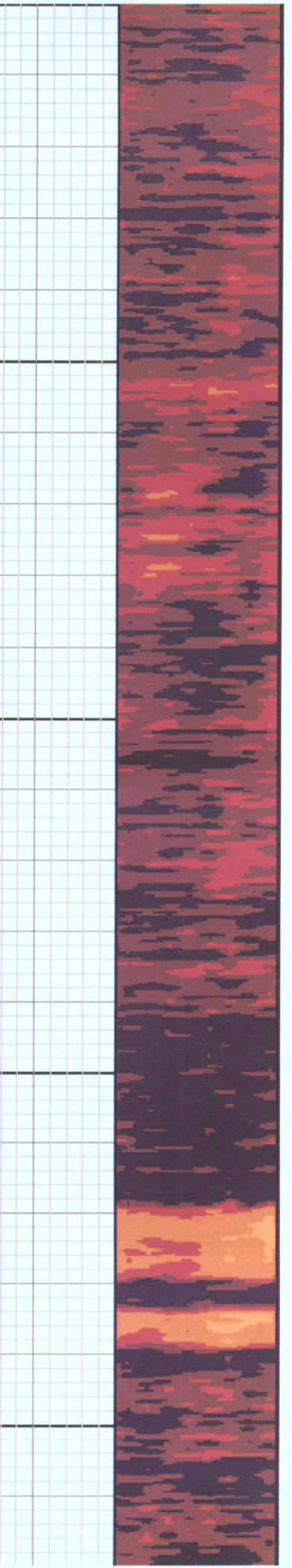
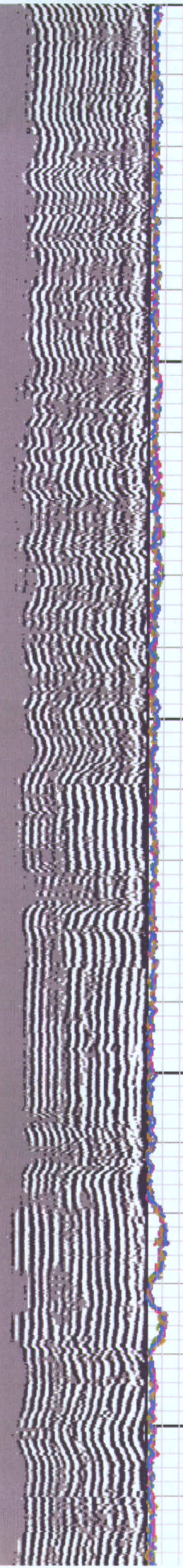
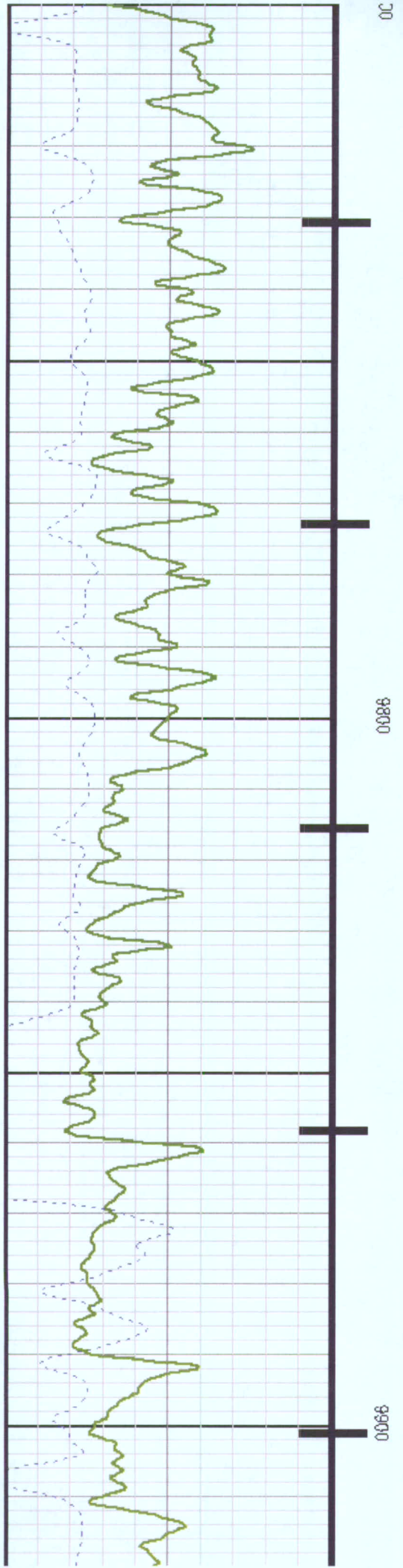


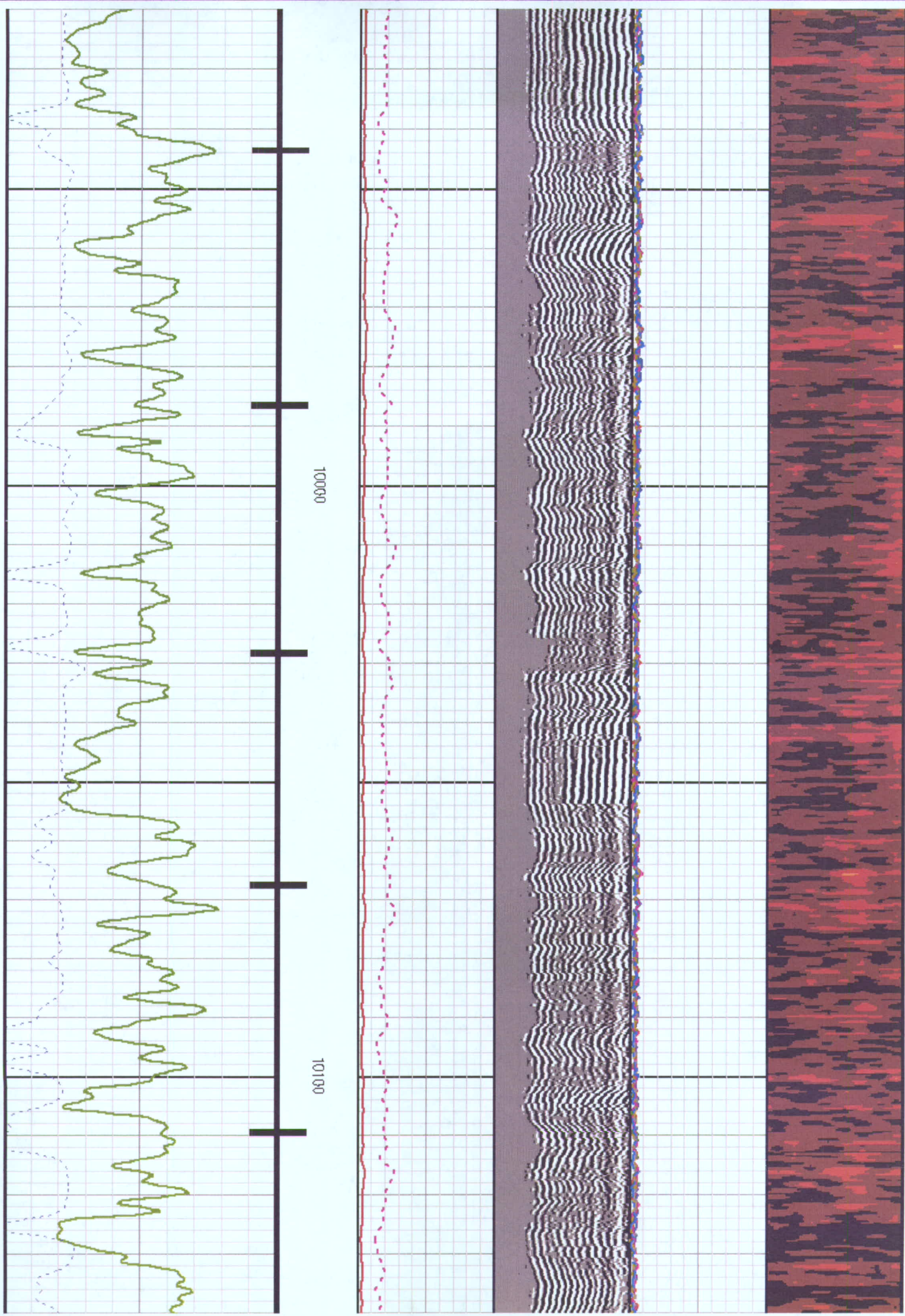
9300

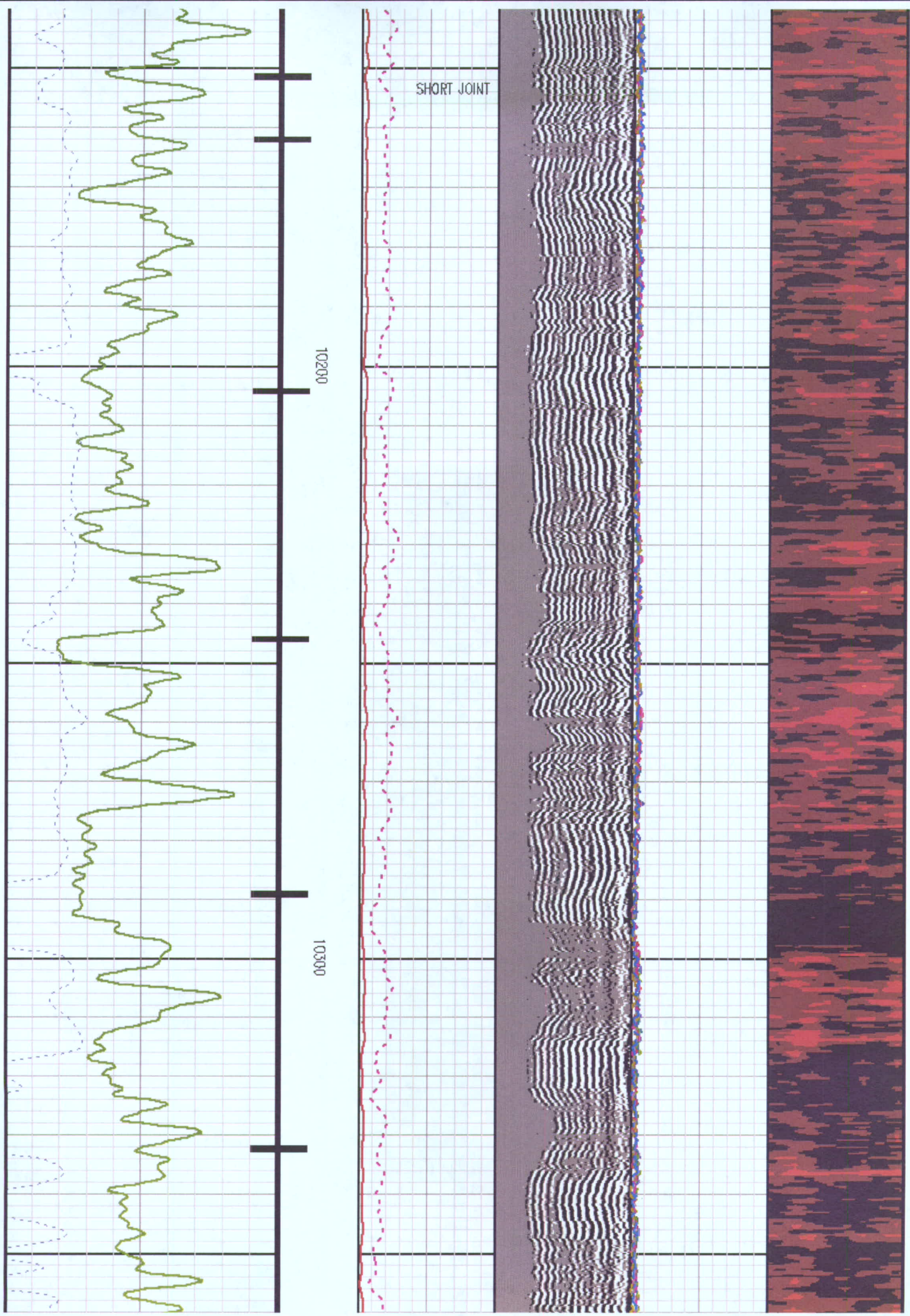
9400

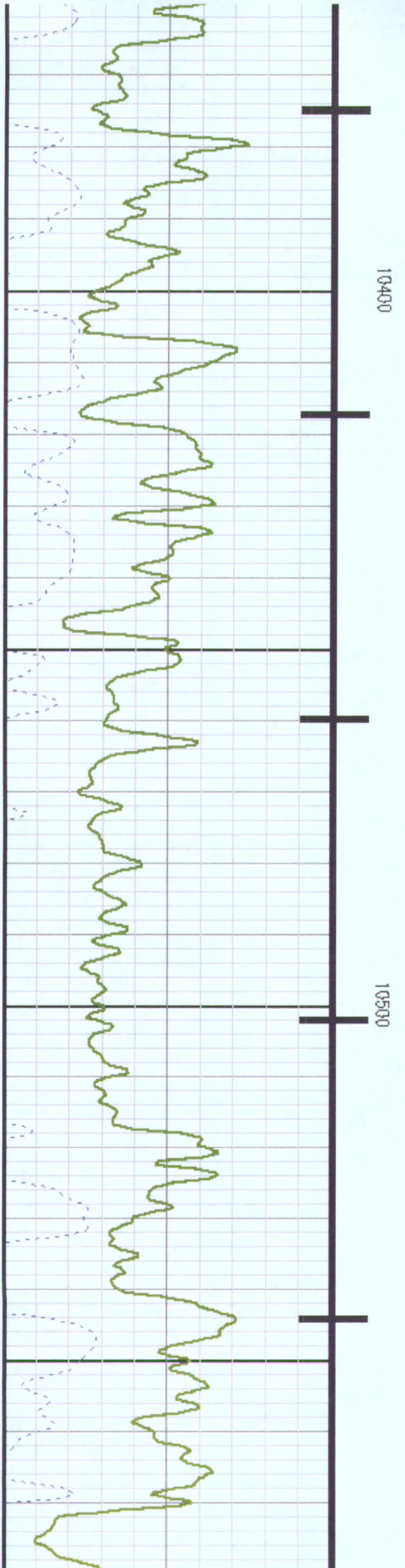
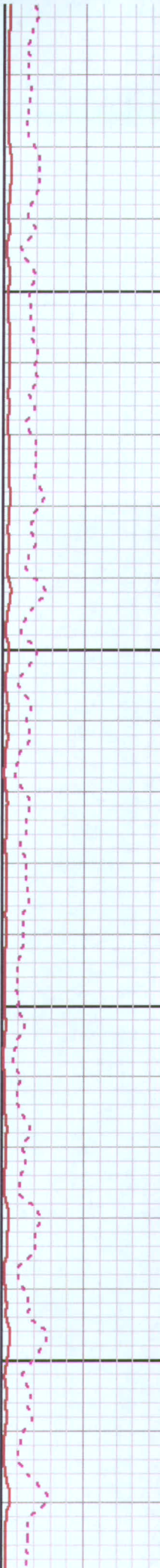
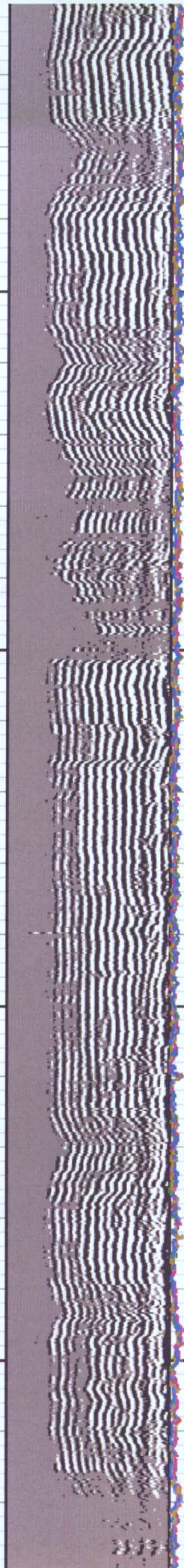


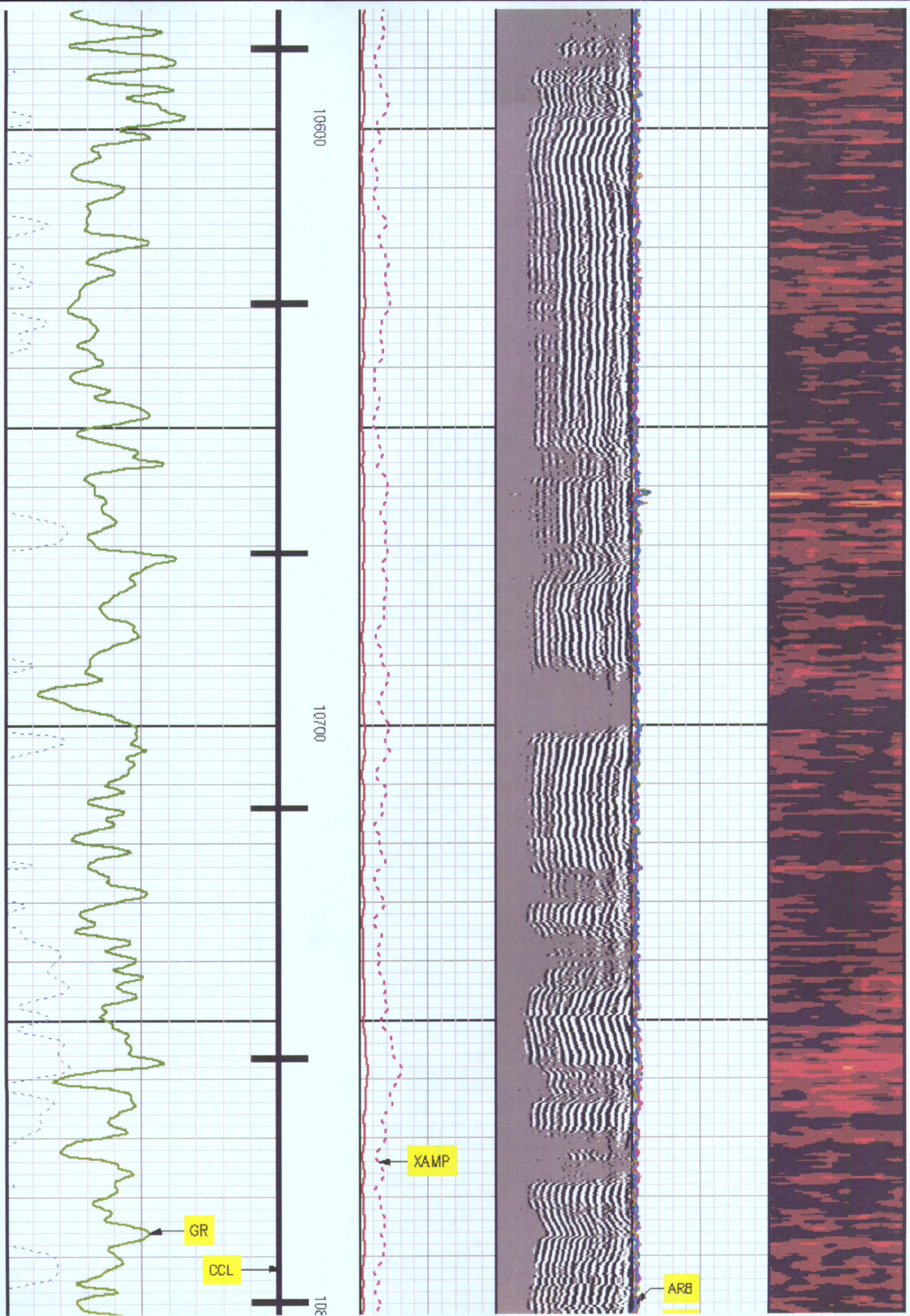


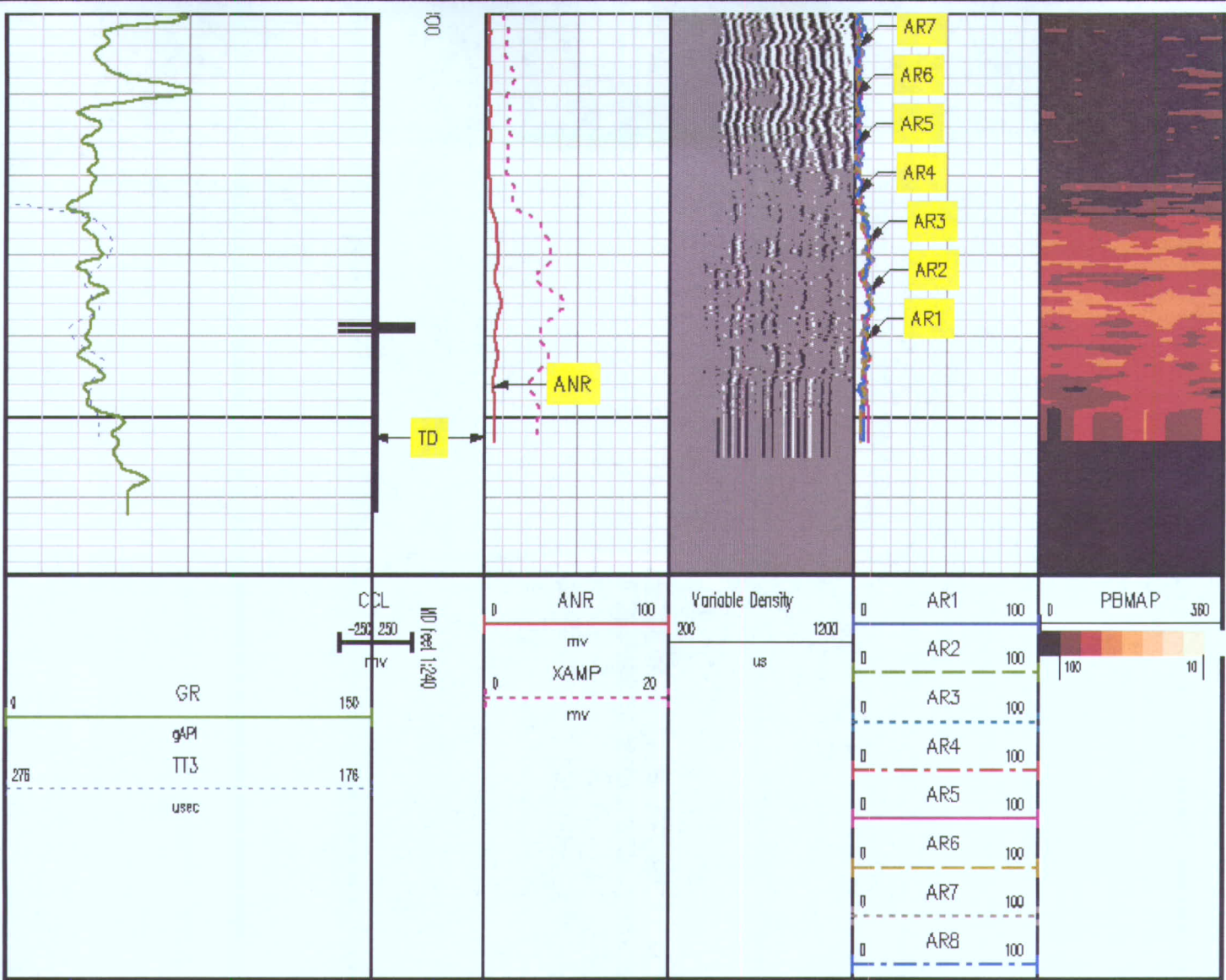












MAIN SECTION
PRIMARY PRESENTATION

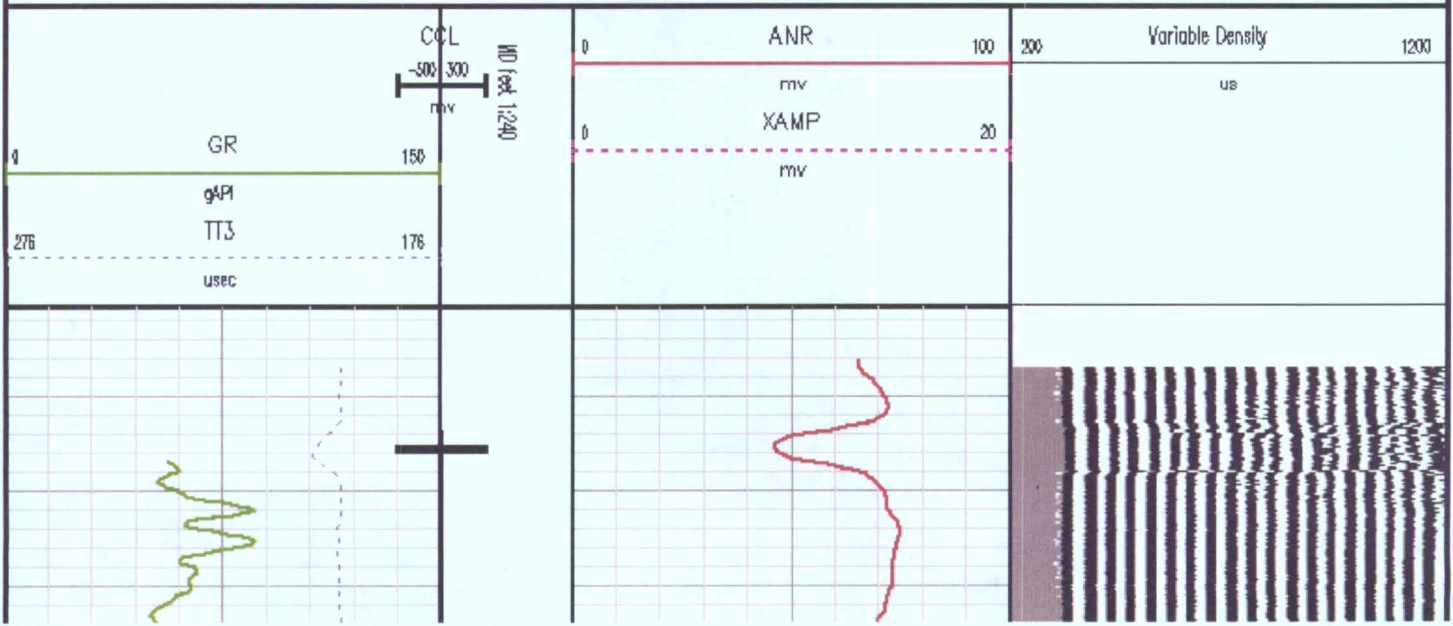
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	316.900	usec	5470.750	7579.000
RAL	Amp Gate Start Near	200.391	usec	5470.750	7579.000
RAL	Amp Gate Start Radial	200.391	usec	5470.750	7579.000
RAL	Amp Gate Width Far	25.000	usec	5470.750	7579.000
RAL	Amp Gate Width Near	25.000	usec	5470.750	7579.000
RAL	Amp Gate Width Radial	25.000	usec	5470.750	7579.000

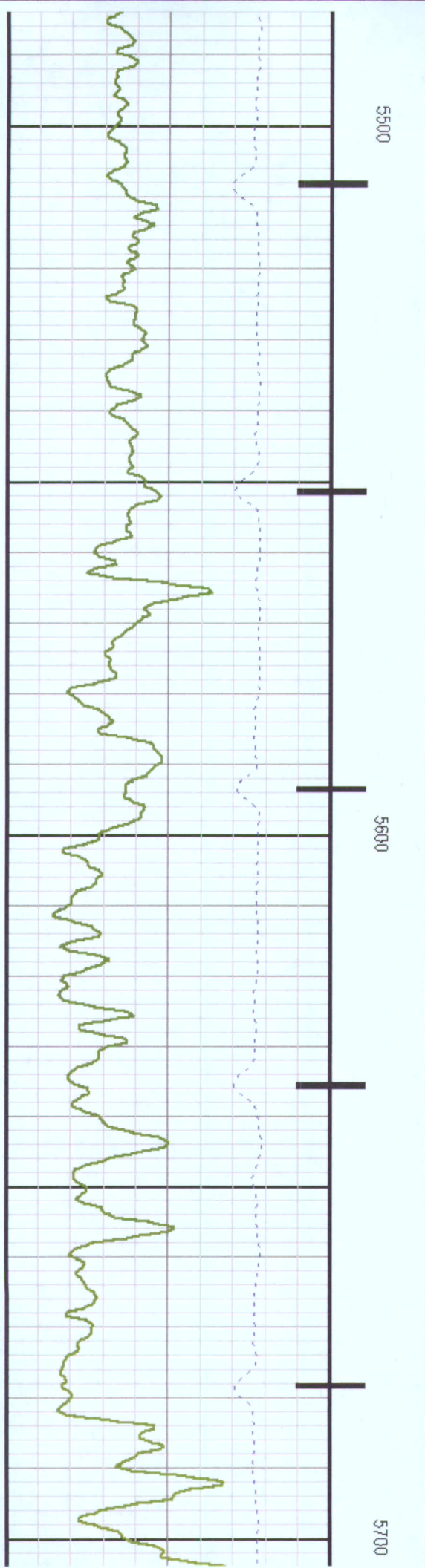
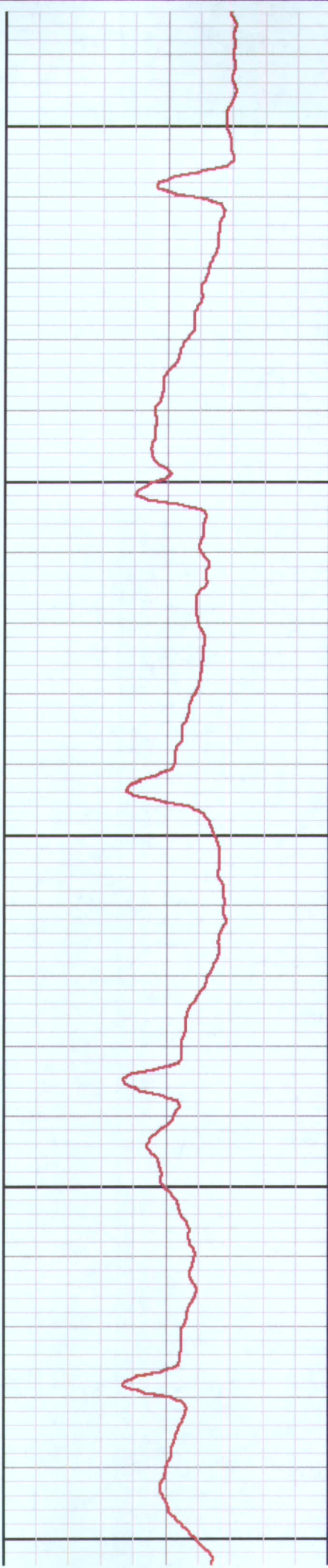
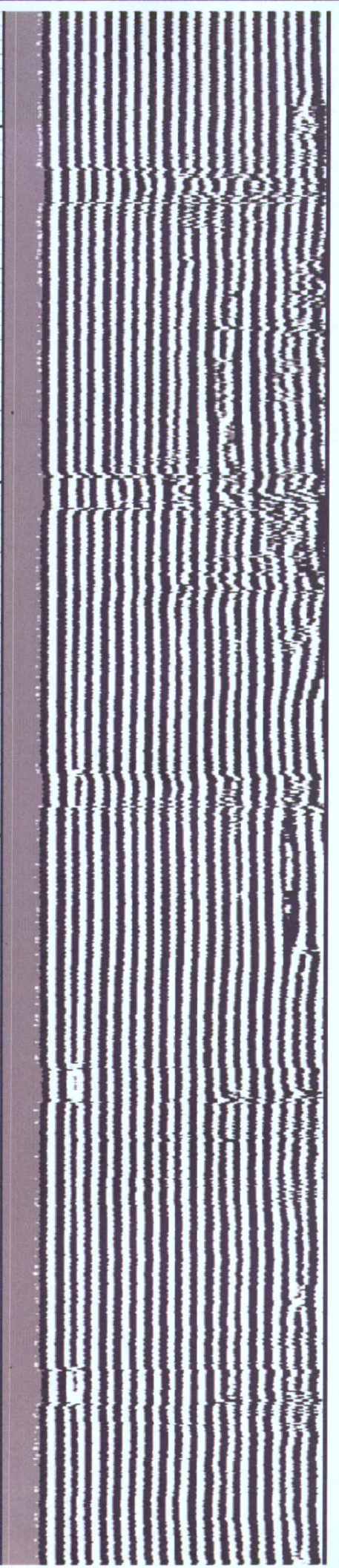
RAL	casing od	4.500	inches	5470.750	7579.000
RAL	casing wt	11.600	lbm/ft	5470.750	7579.000
RAL	FB Start Far	291.900	usec	5470.750	7579.000
RAL	FB Start Near	175.391	usec	5470.750	7579.000
RAL	FB Start Radial	175.391	usec	5470.750	7579.000
RAL	FB Thresh Far	15.000	mv	5470.750	7579.000
RAL	FB Thresh Near	10.000	mv	5470.750	7579.000
RAL	FB Thresh Radial	10.000	mv	5470.750	7579.000
RAL	Fluid Travel Time	200.000	usec/ft	5470.750	7578.869

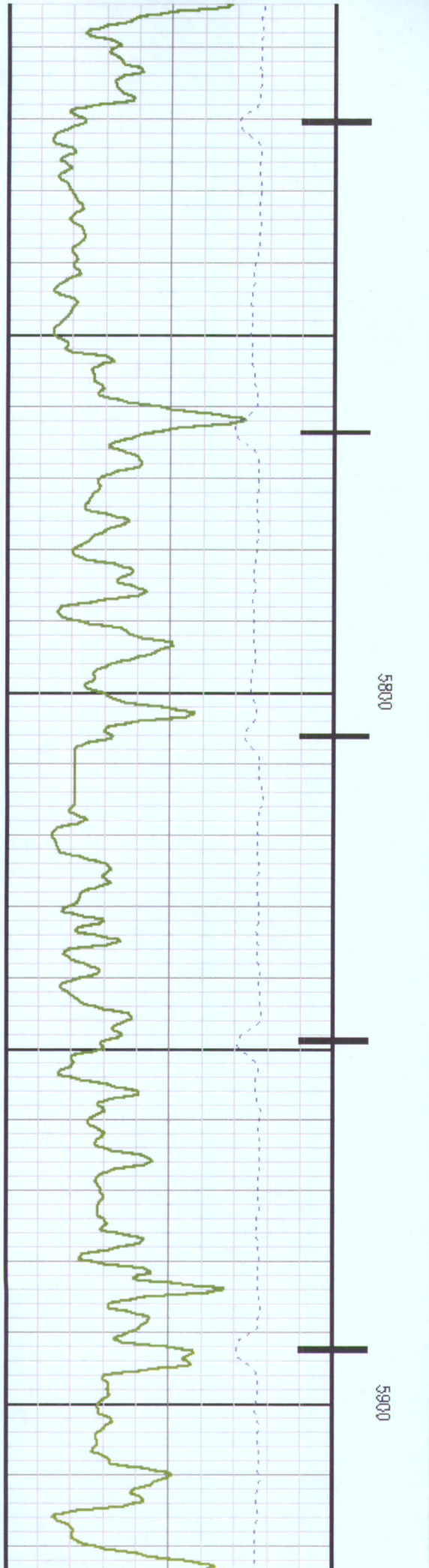
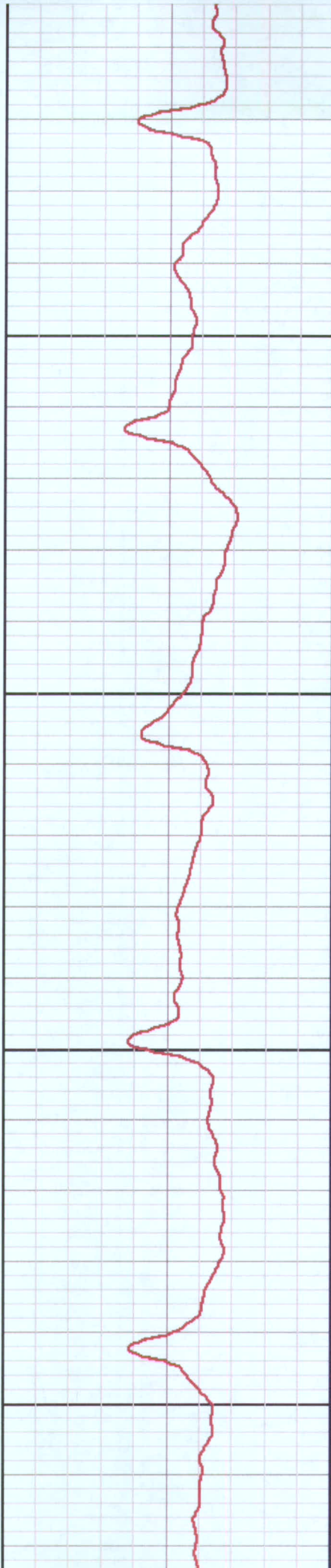
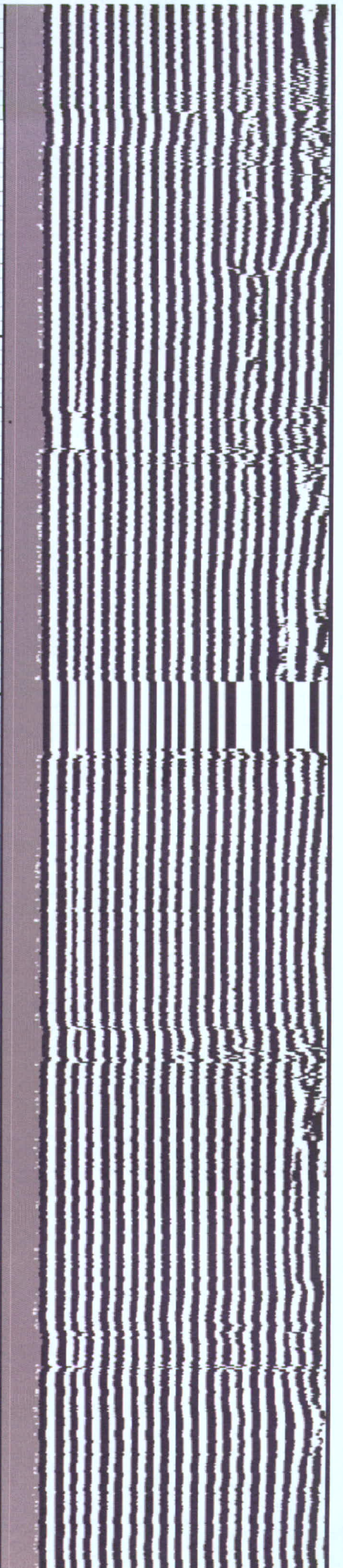
DEPTH OFFSETS
(for Acquired Curves)

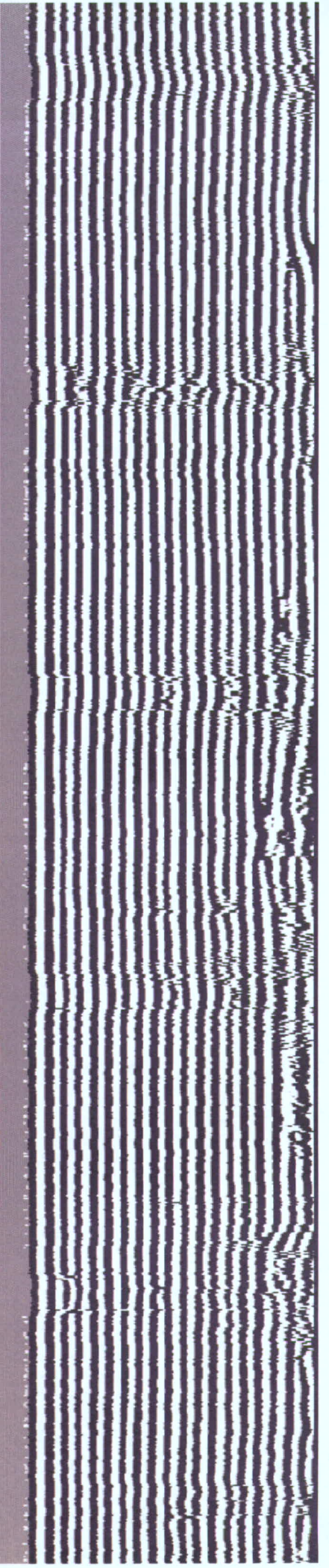
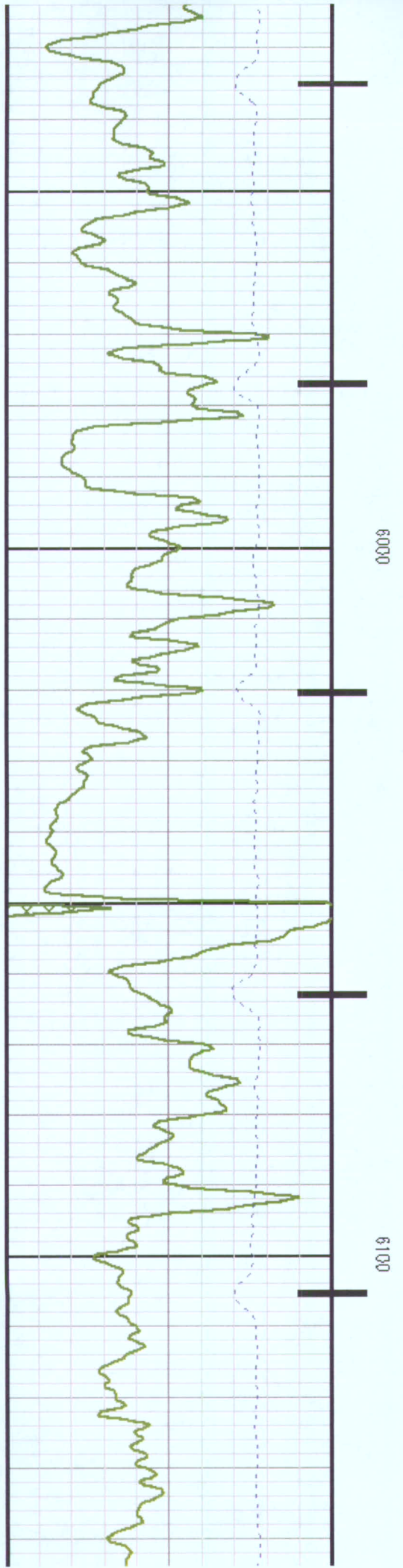
SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	-15.360	ACAL ANR AR1 AR2 AR3 AR4 AR5 AR6 AR7 AR8 CHV FPR2 FPR3 FPR5 TT3 TTR1 TTR2 TTR3 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
1426XA	-14.360	AFAR SIG TT5
1426XA	-7.250	CCL
1426XA	-5.390	GR
1426XA	0.000	NEU

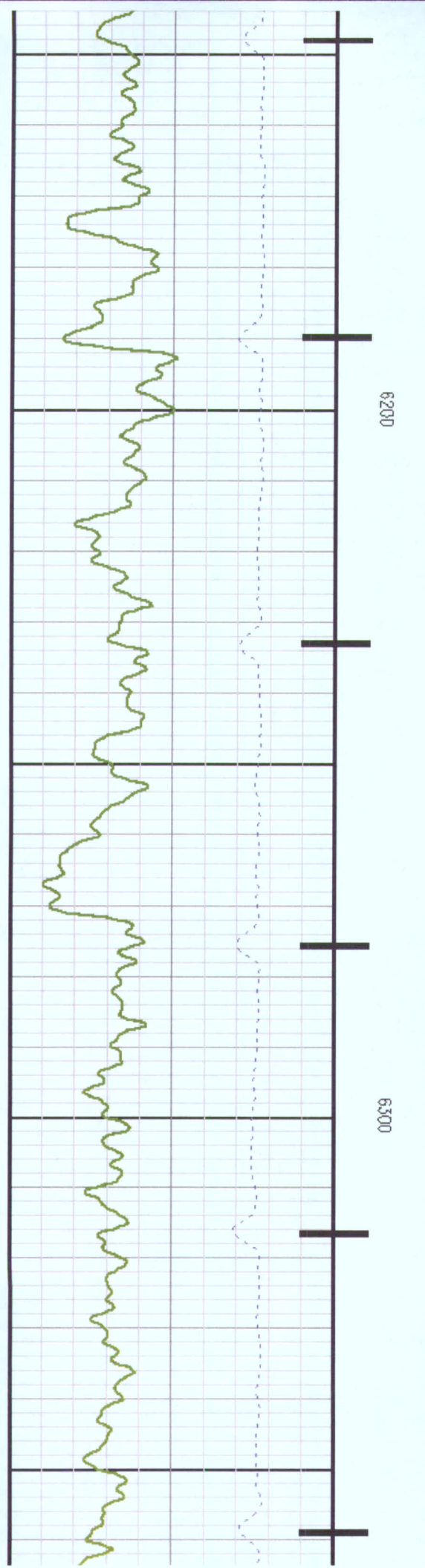
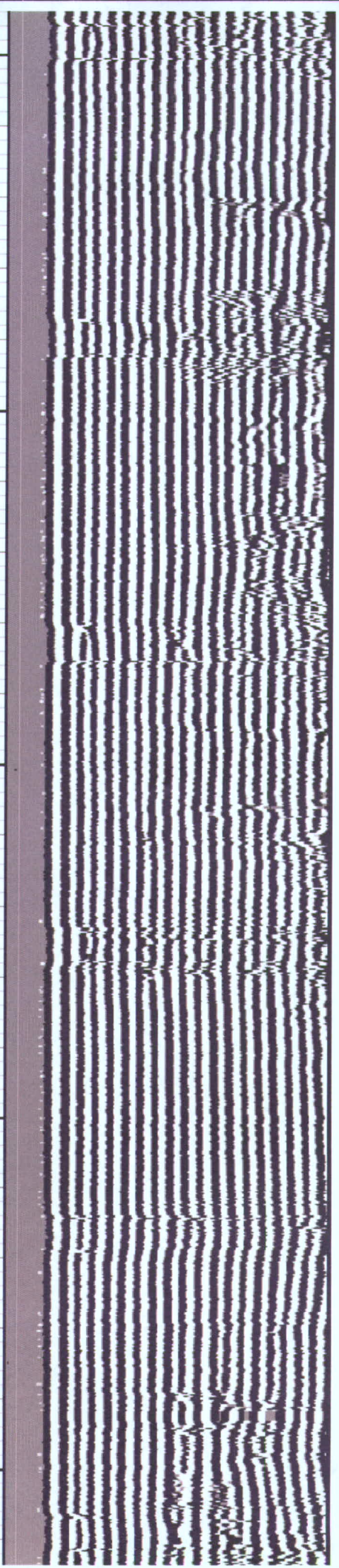
Created by : RAL, v4.8.007
 Plotted by : PlotMgr, v5.4.504
 Company : CONOCO PHILLIPS
 Well : NPM #CPOBA-05 A05 596
 File Name : d:\well\data\Brad\main2.xtf
 Mode : PlotMgr 5.4.504
 Interval : 5450.50 - 10869.50 feet UP
 Created : 2/6/2008 3:46:33 PM

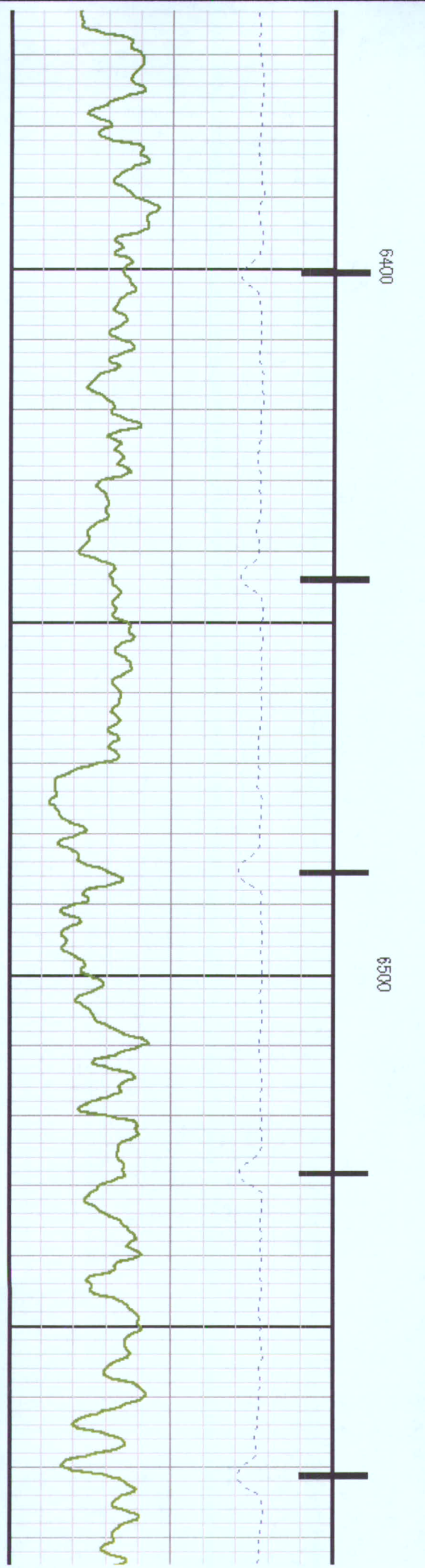
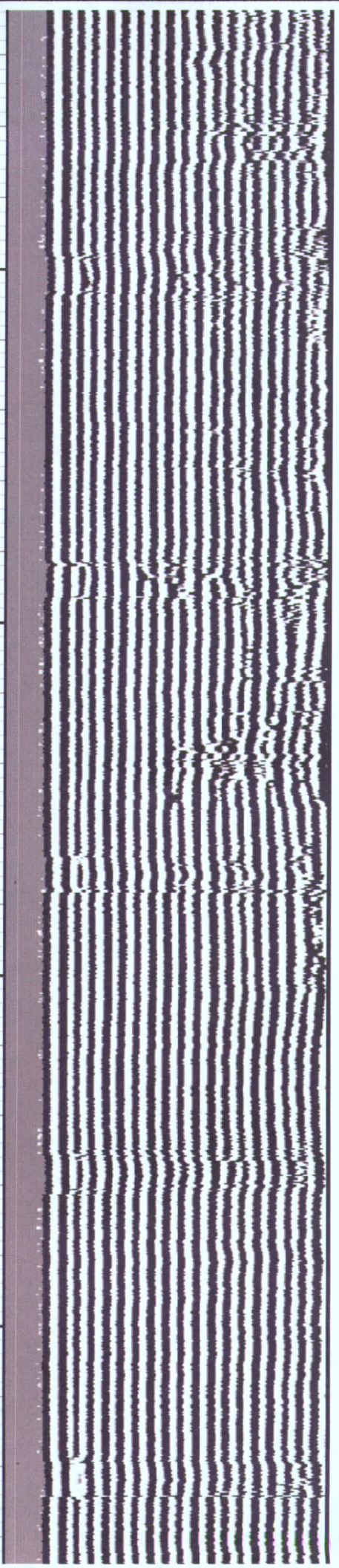


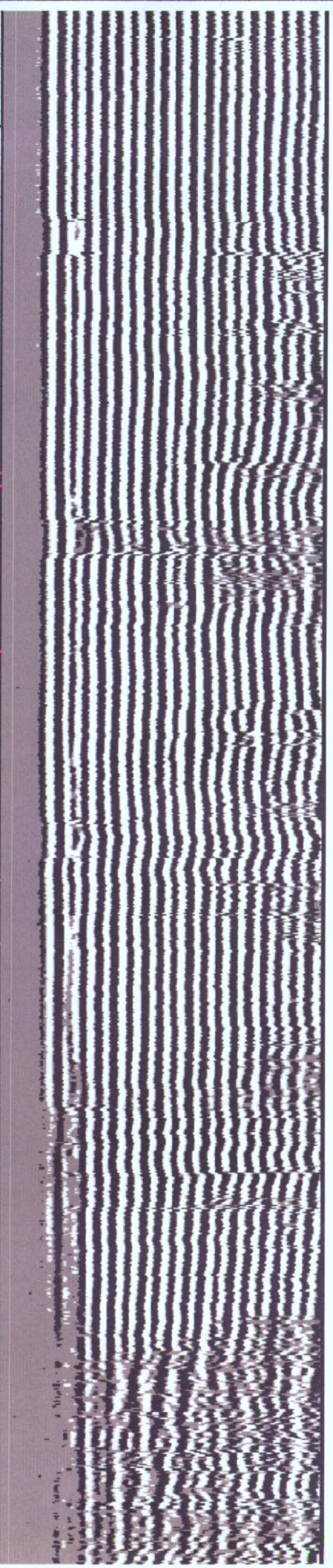
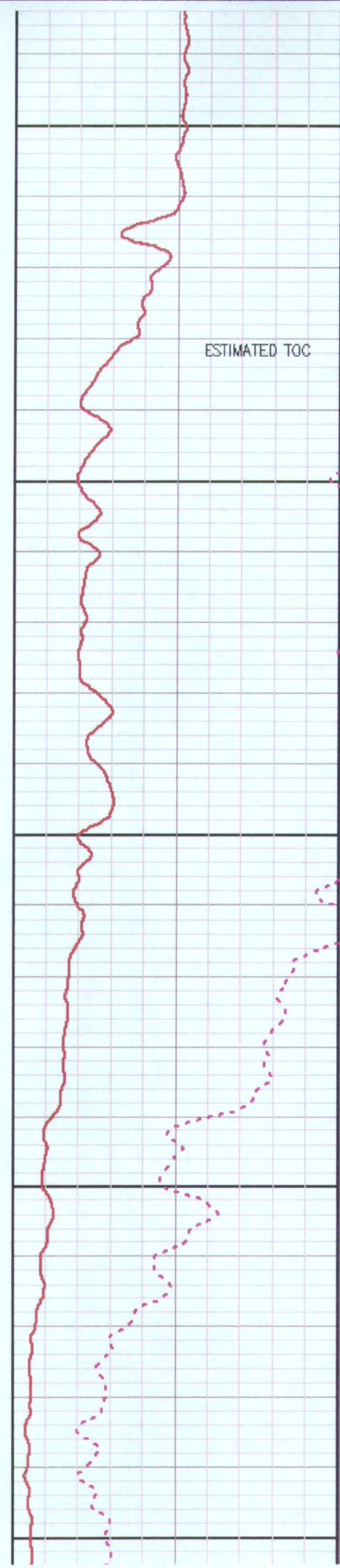
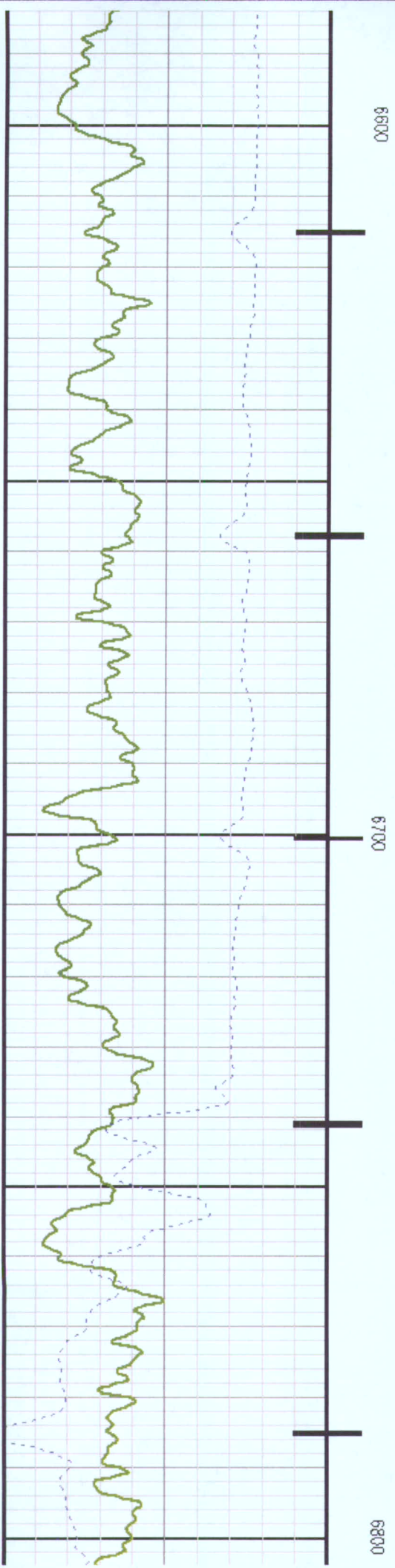


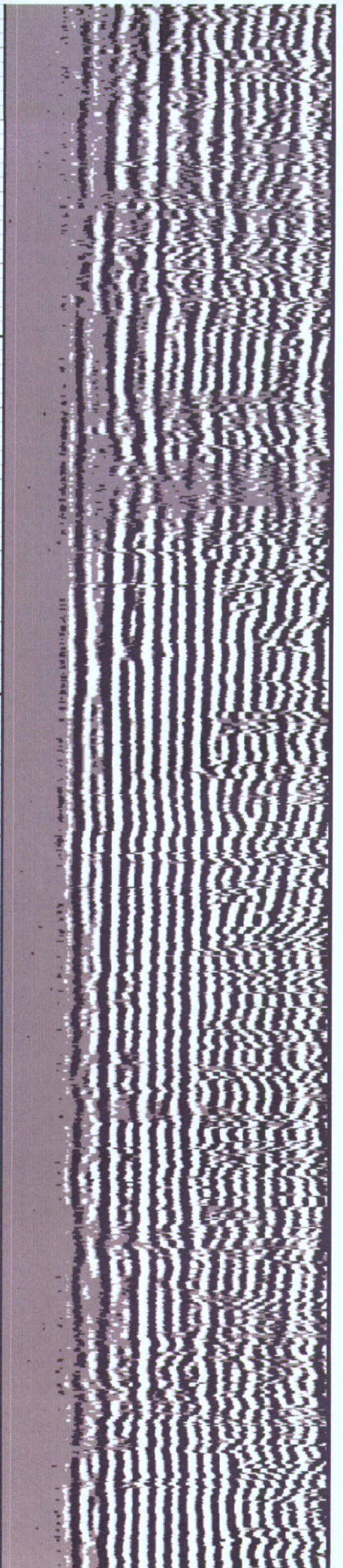




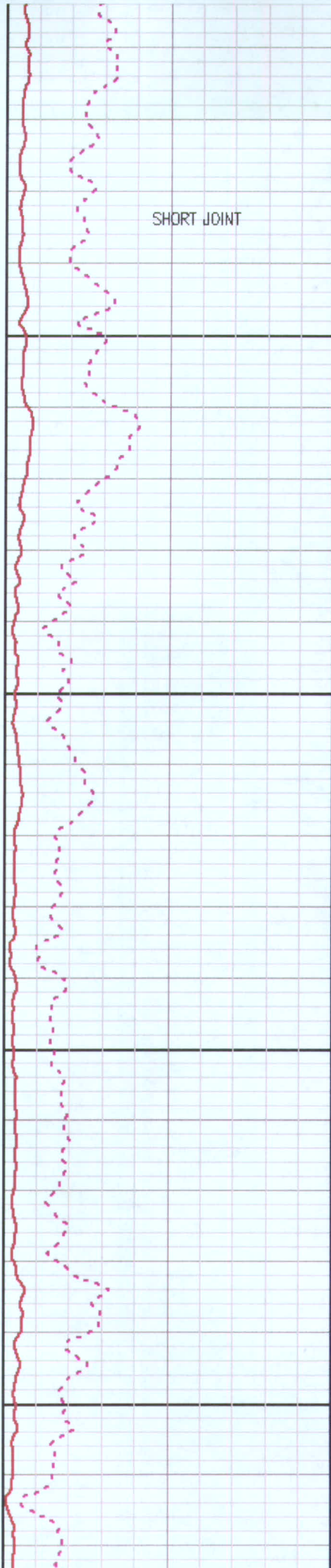






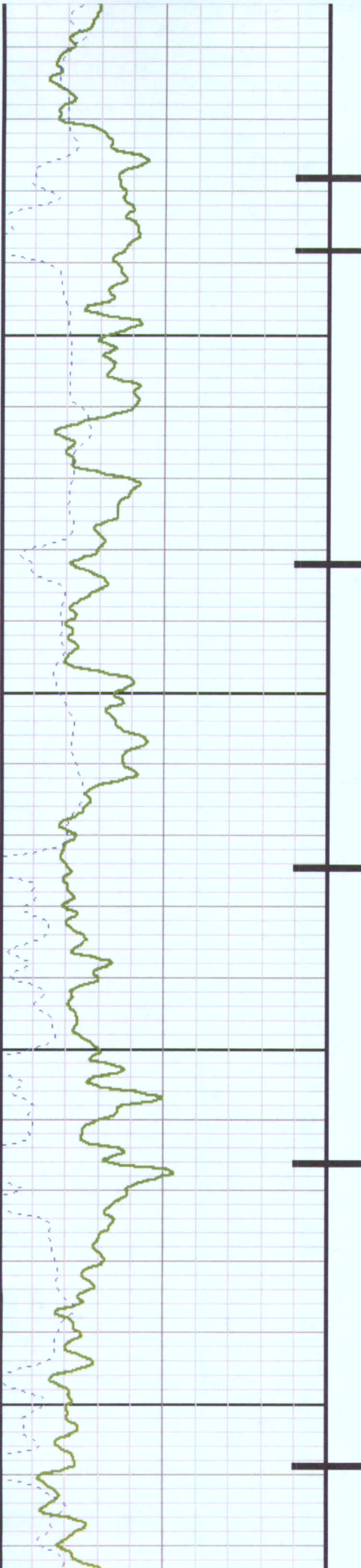


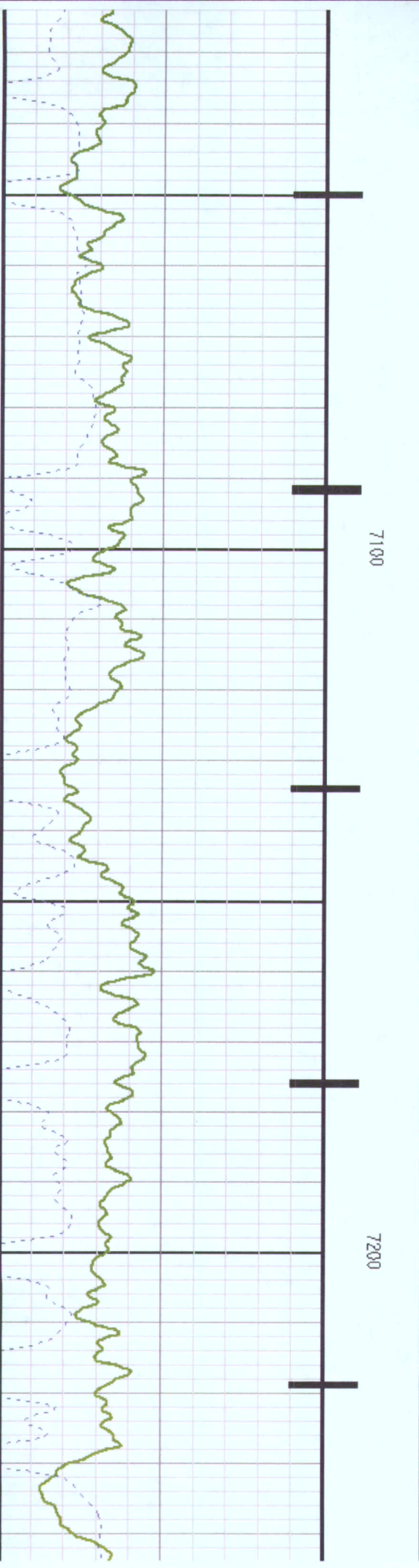
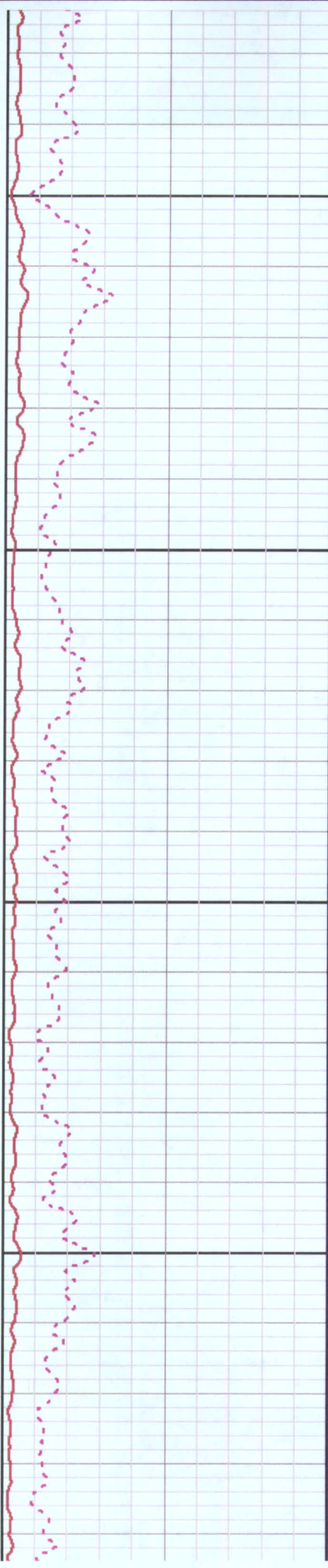
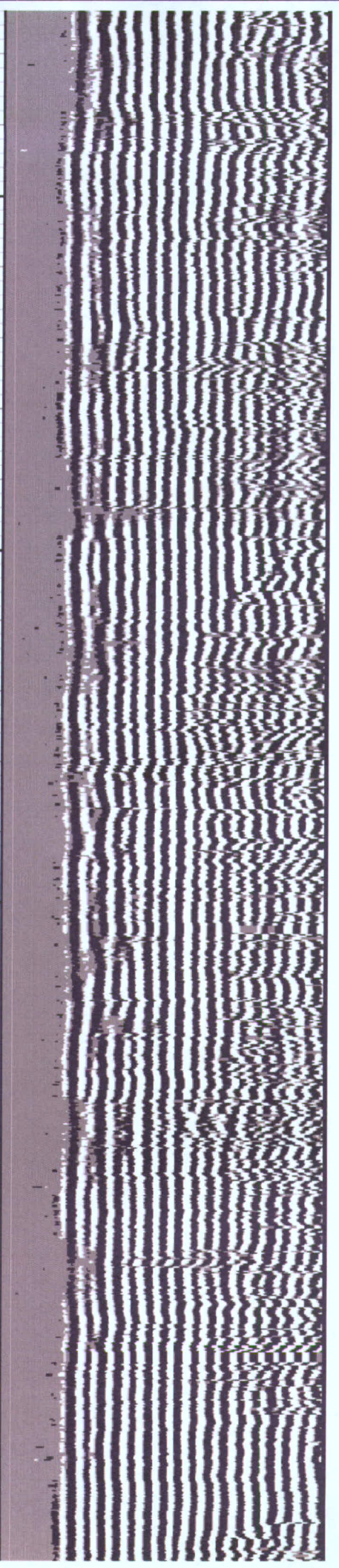
SHORT JOINT

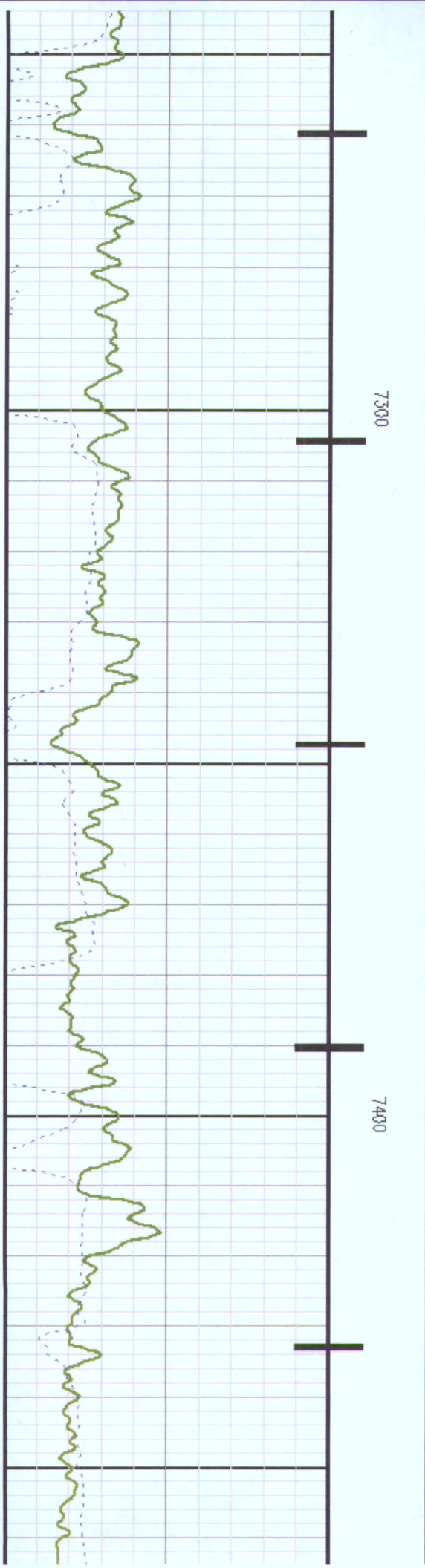
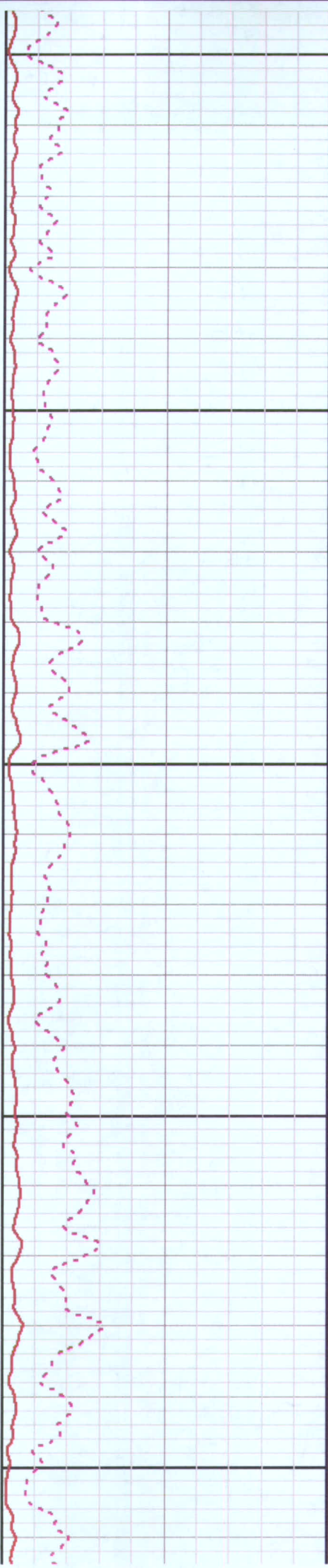
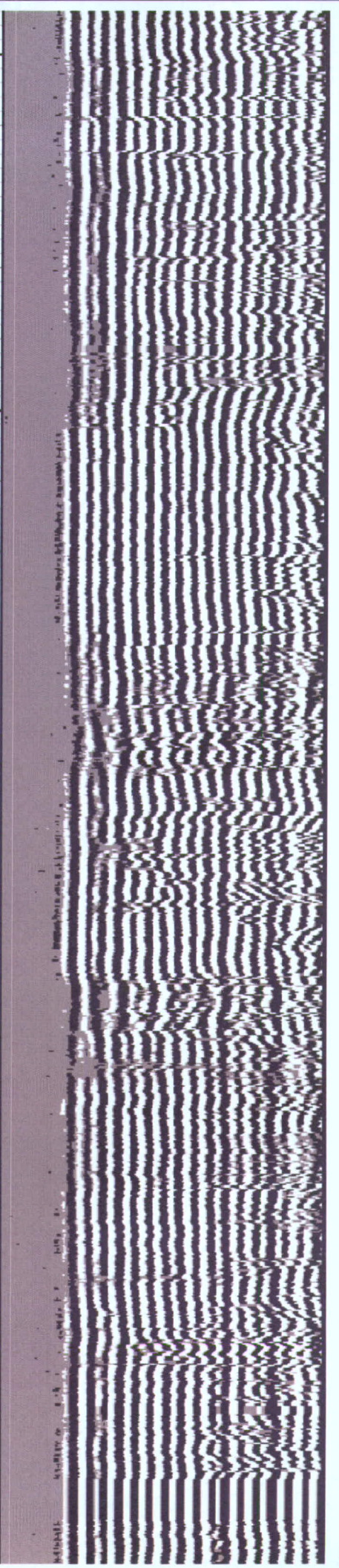


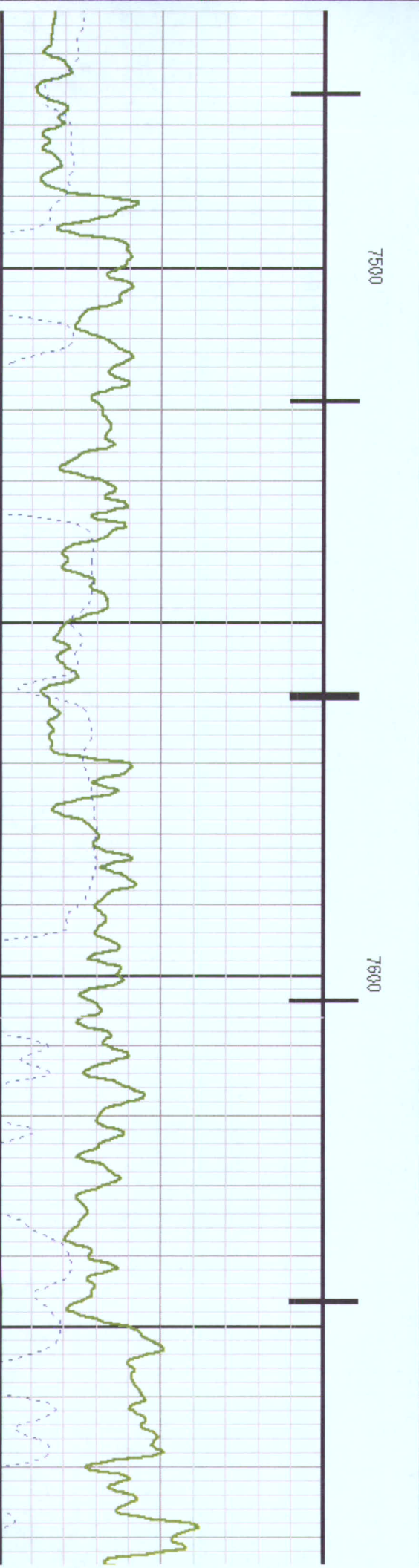
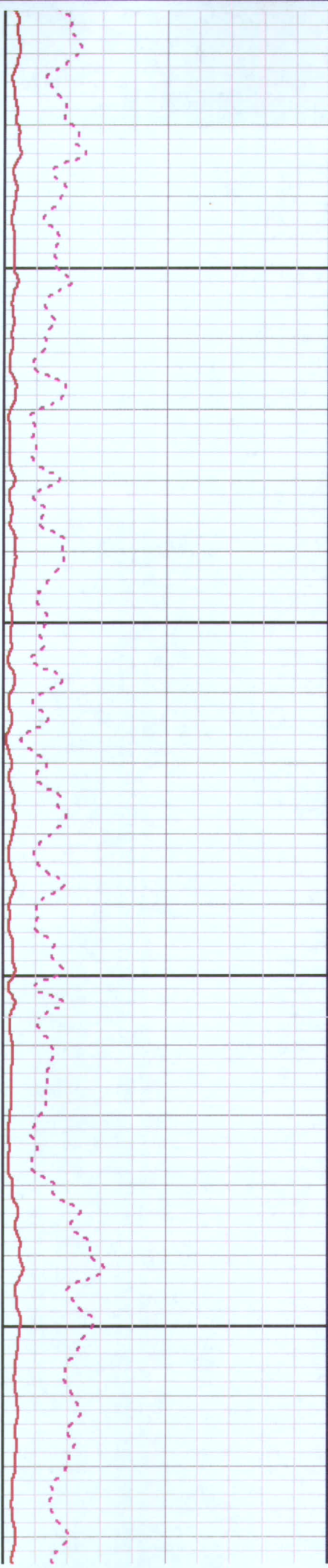
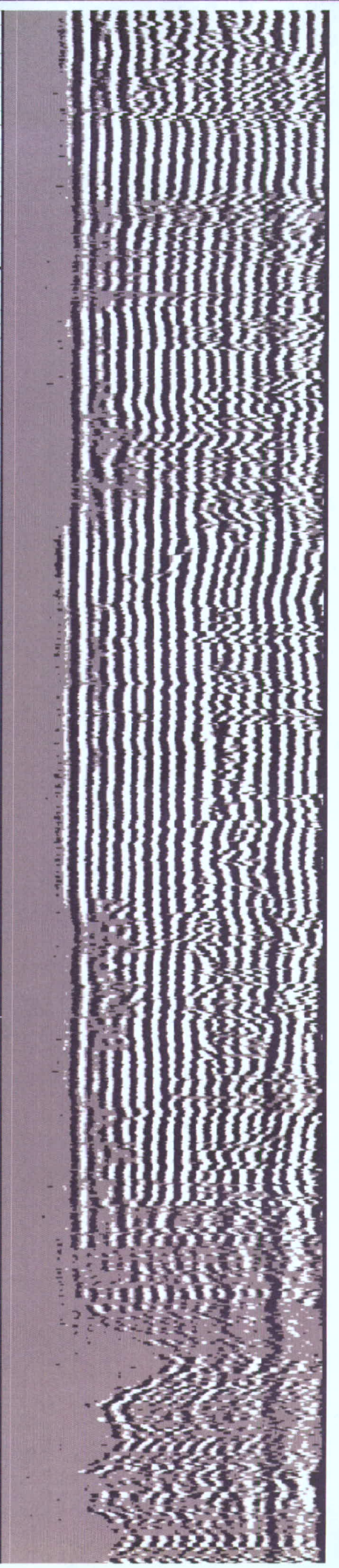
6900

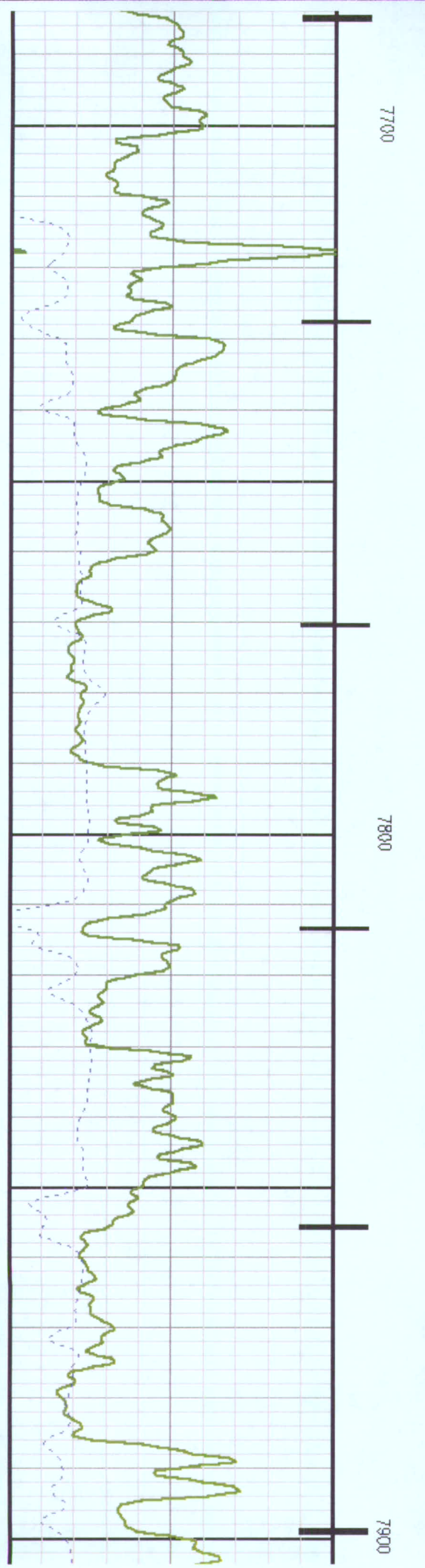
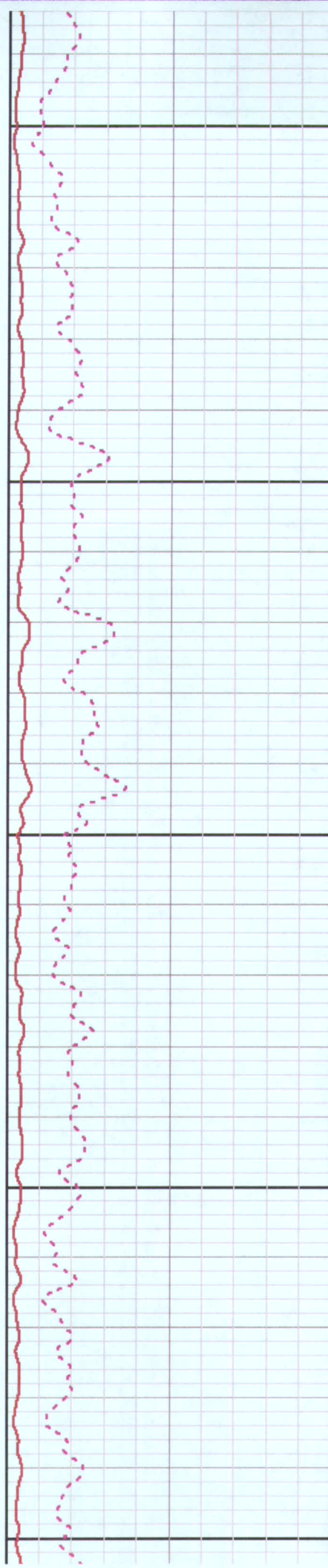
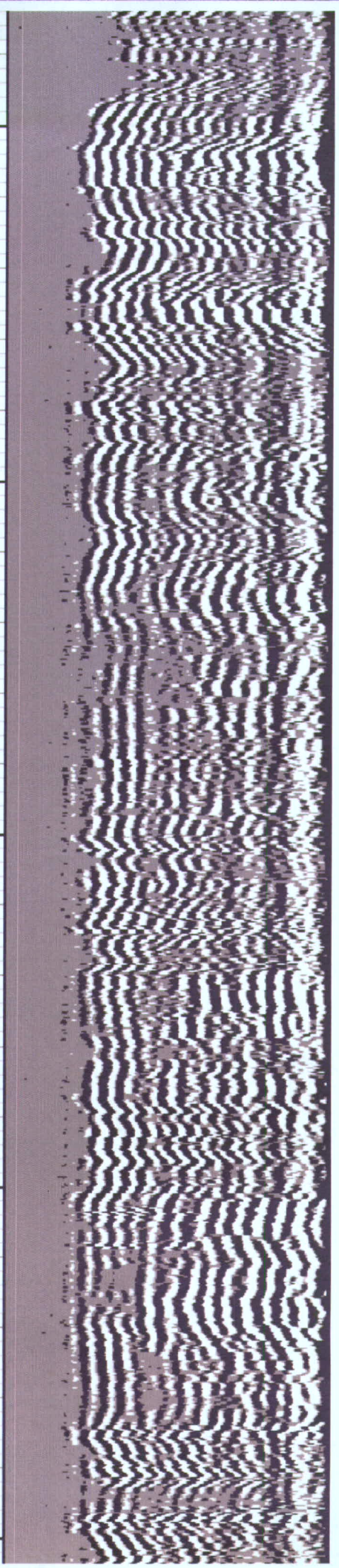
7000

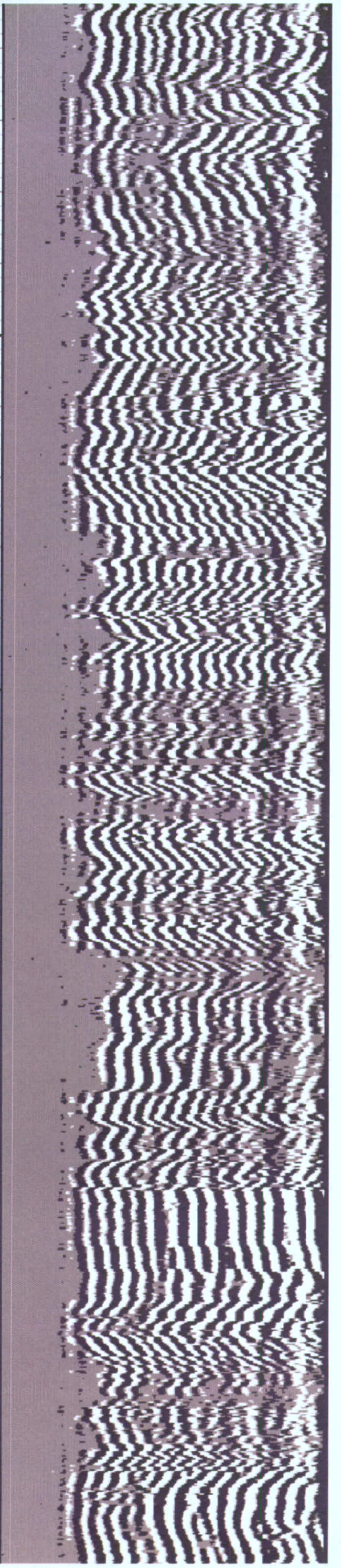
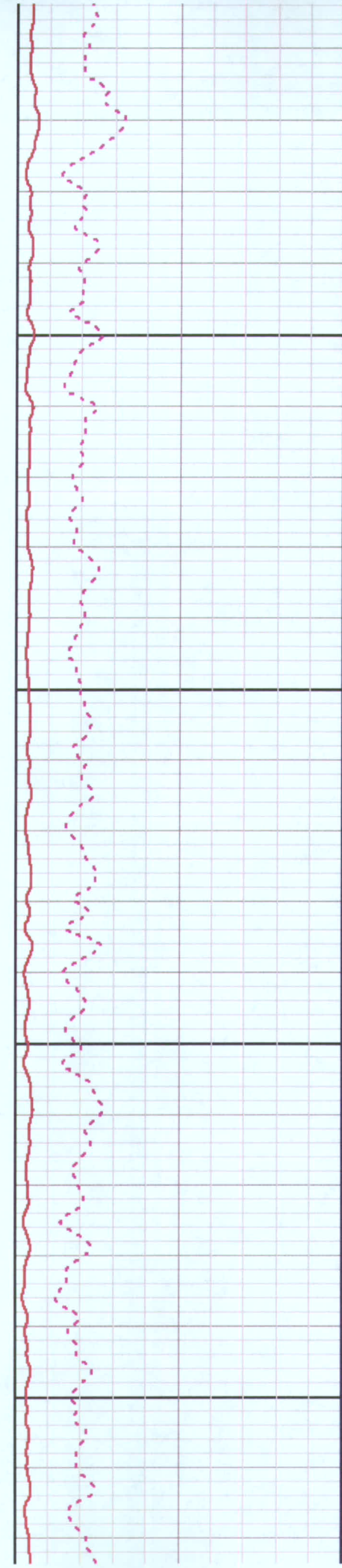
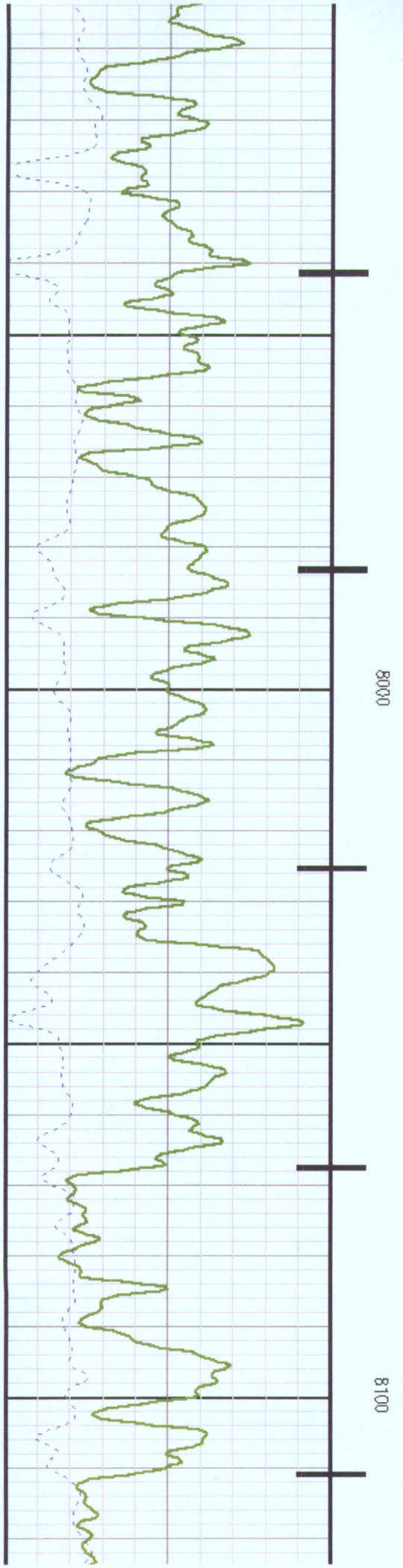


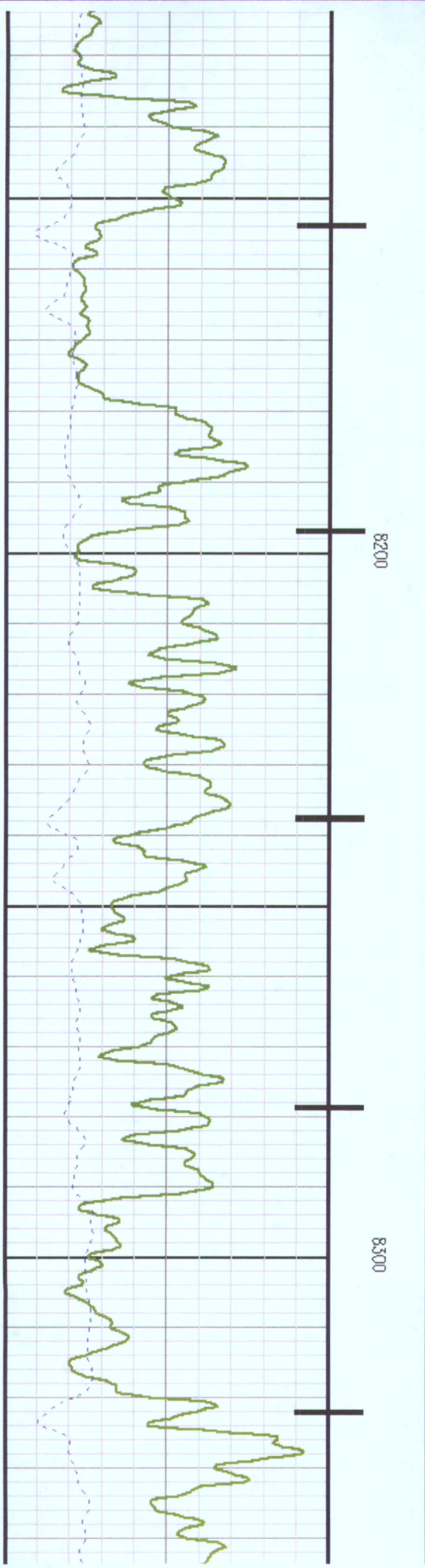
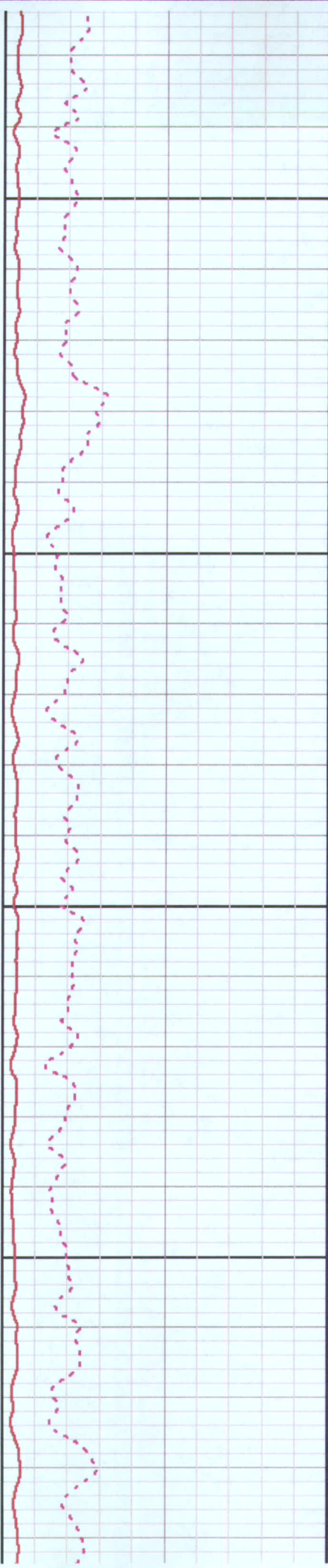
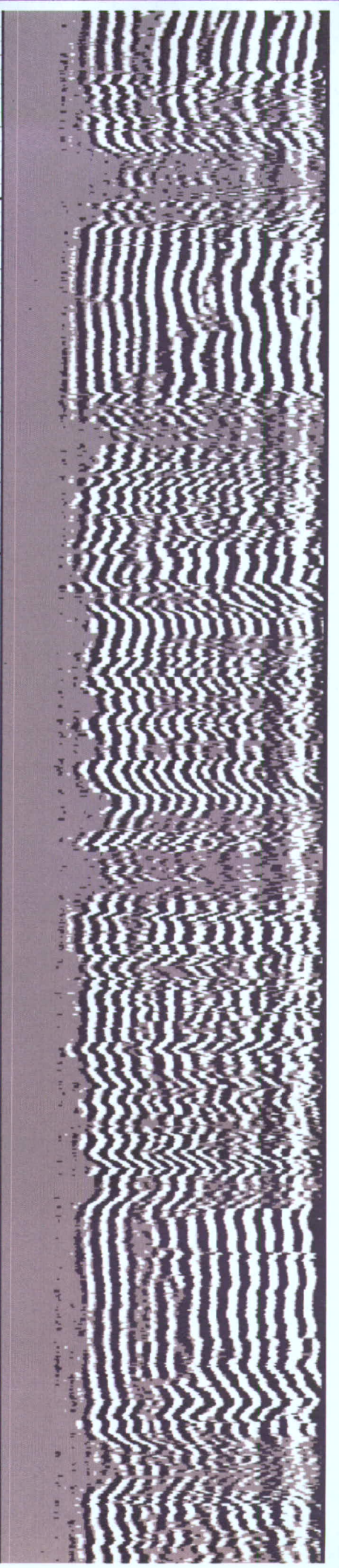


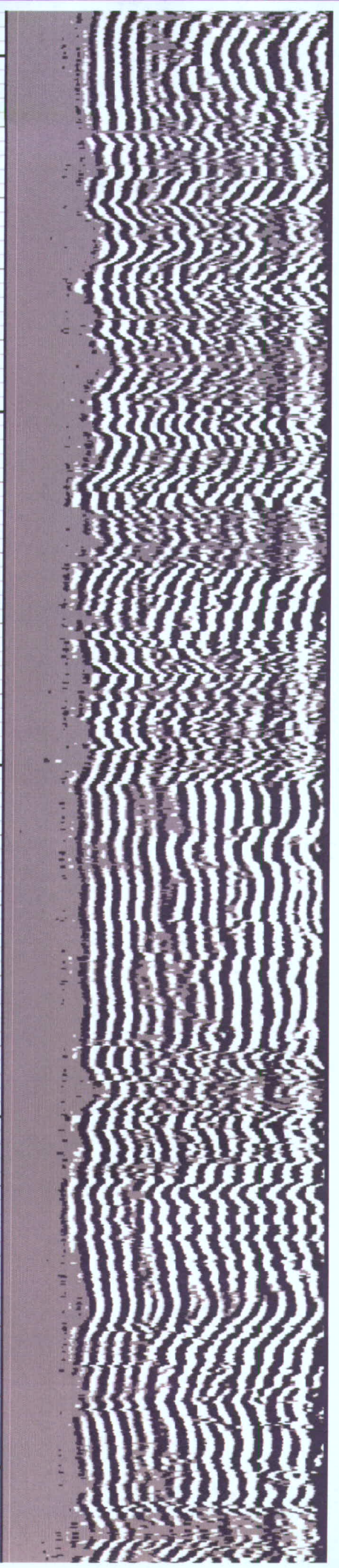
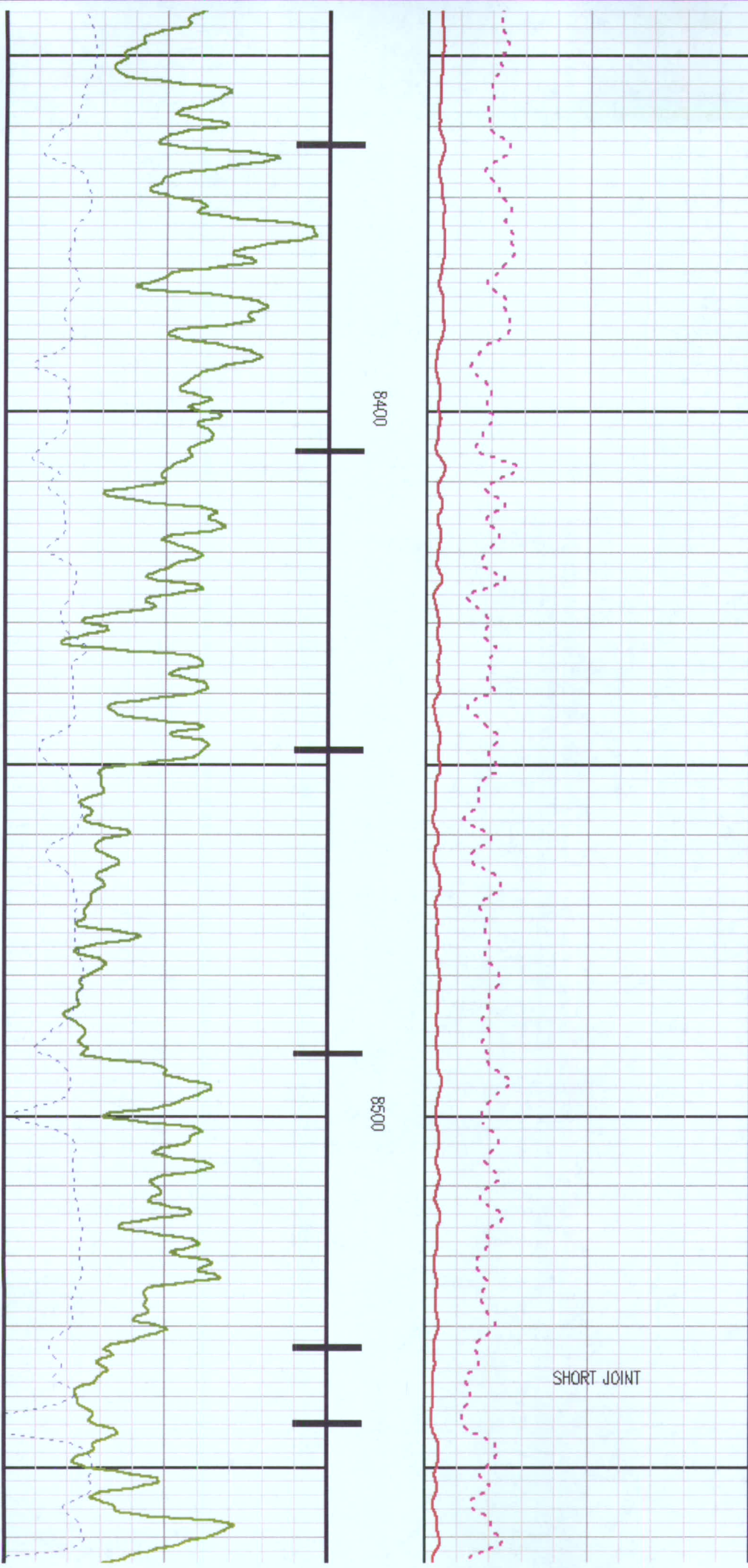




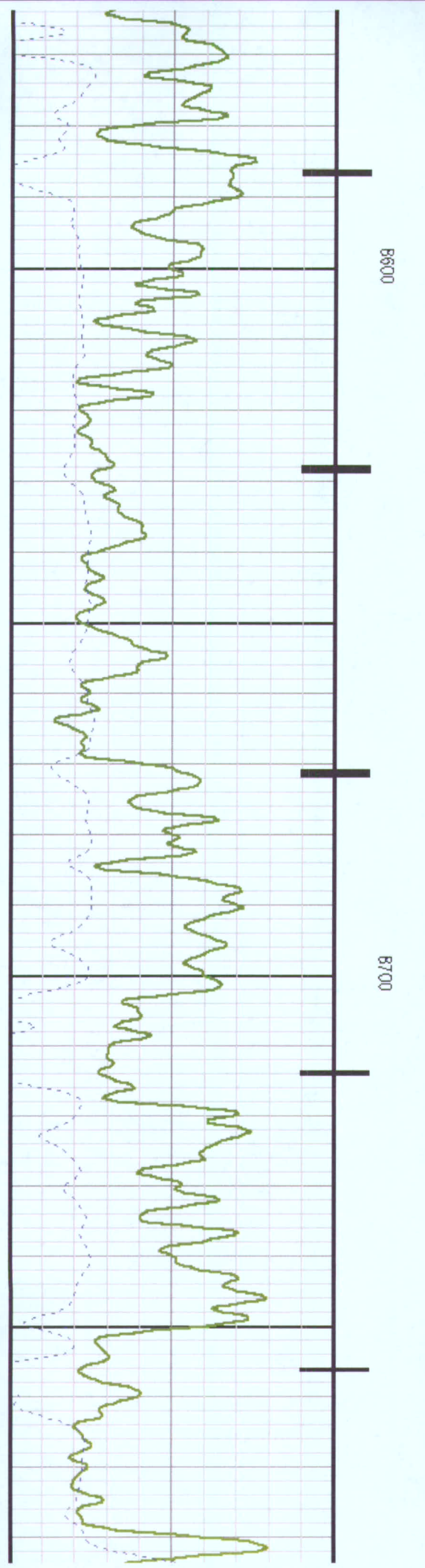
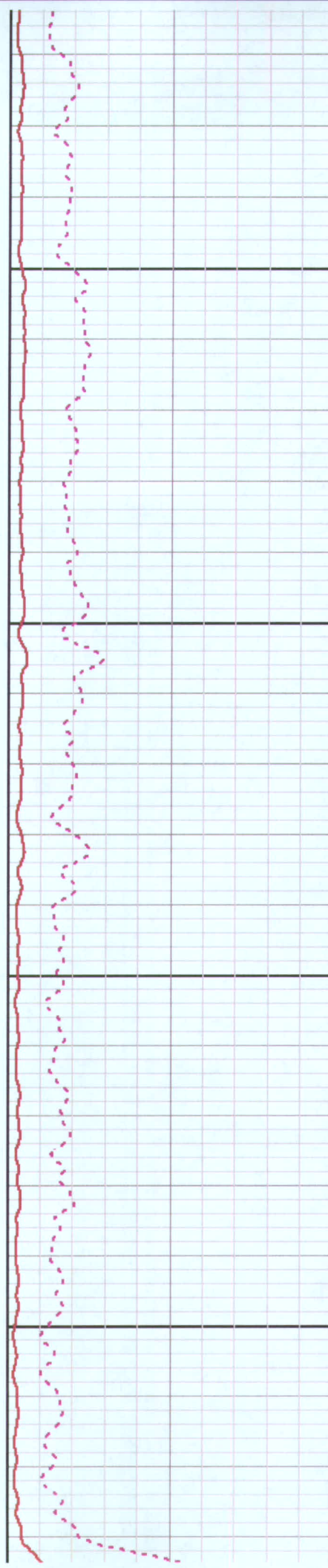
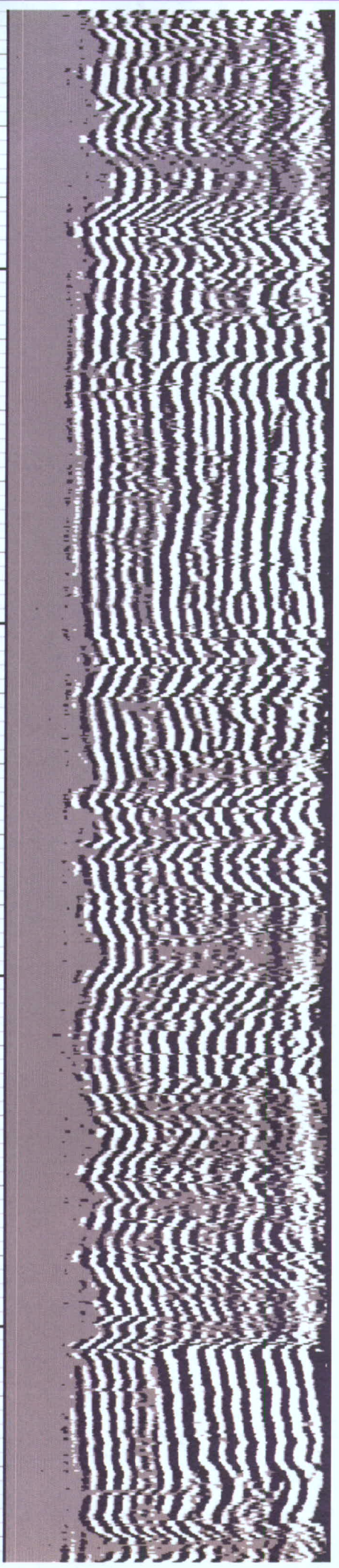






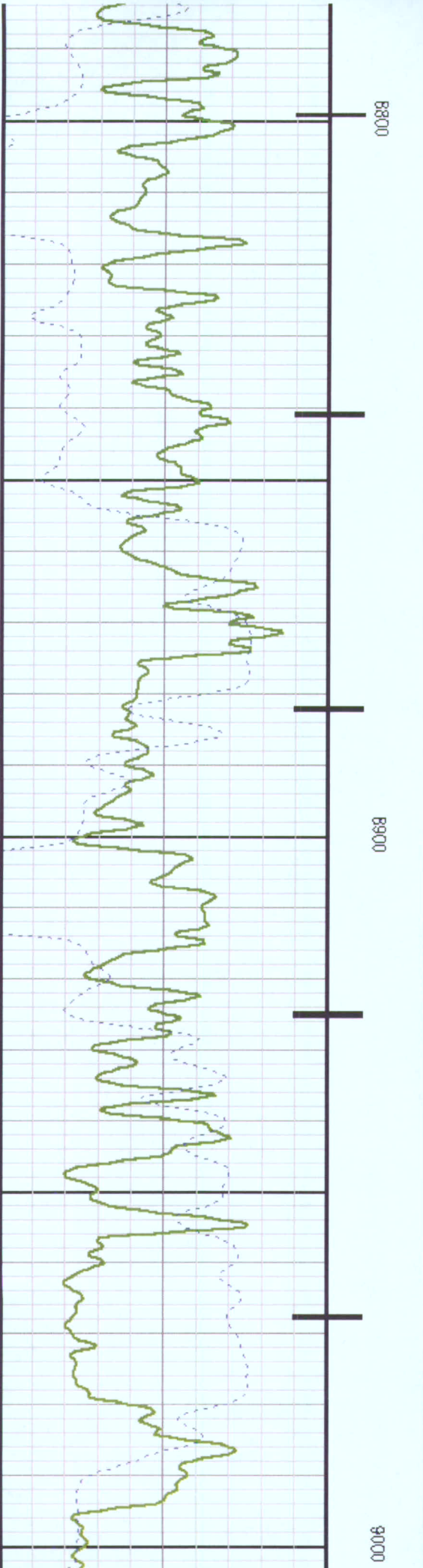
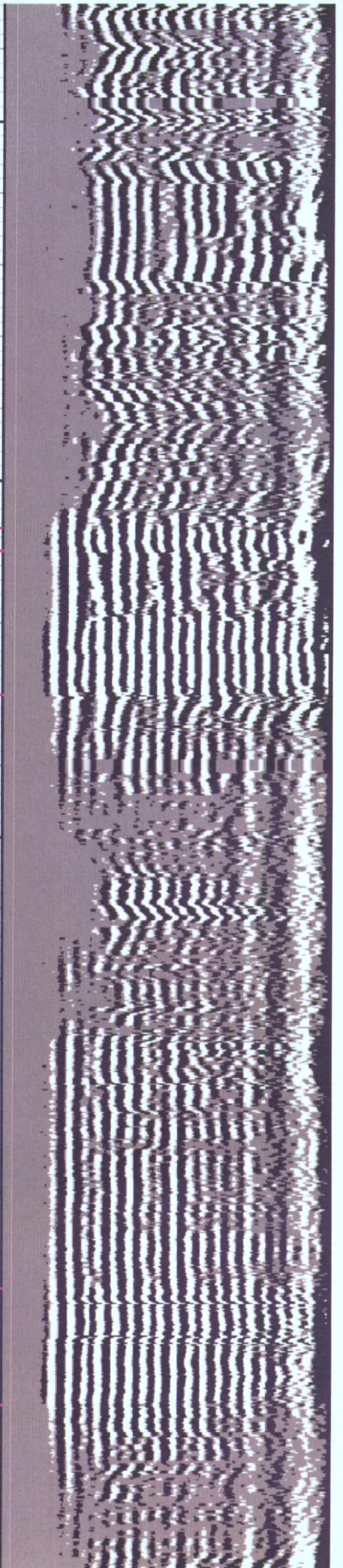


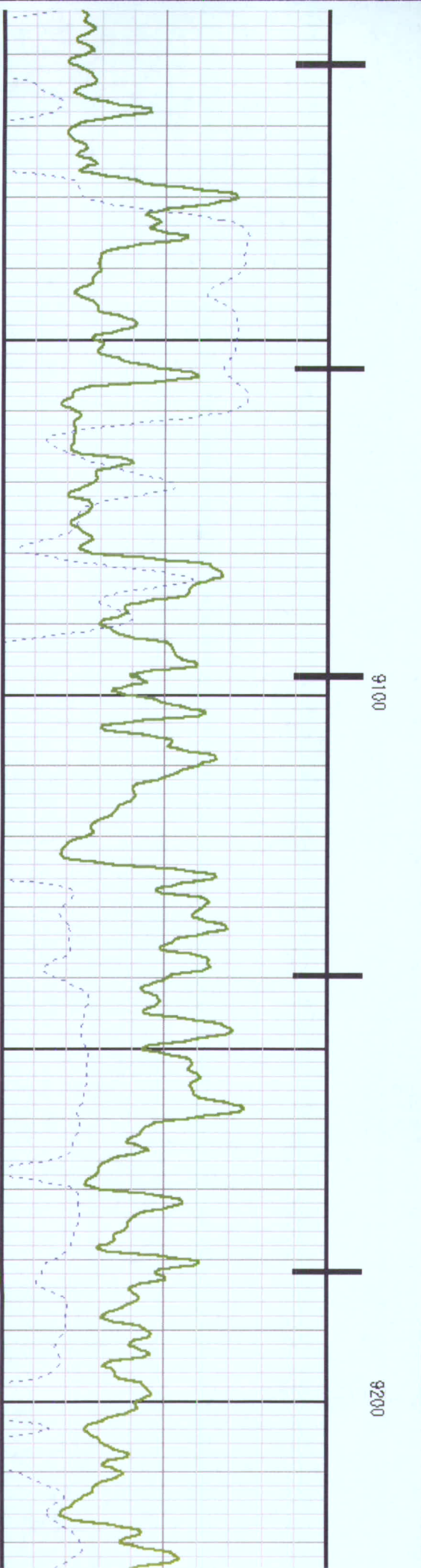
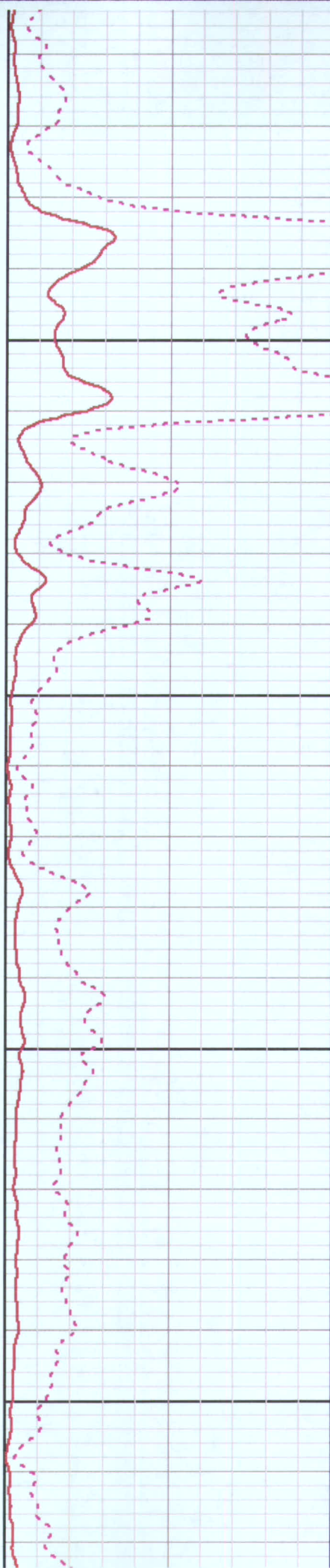
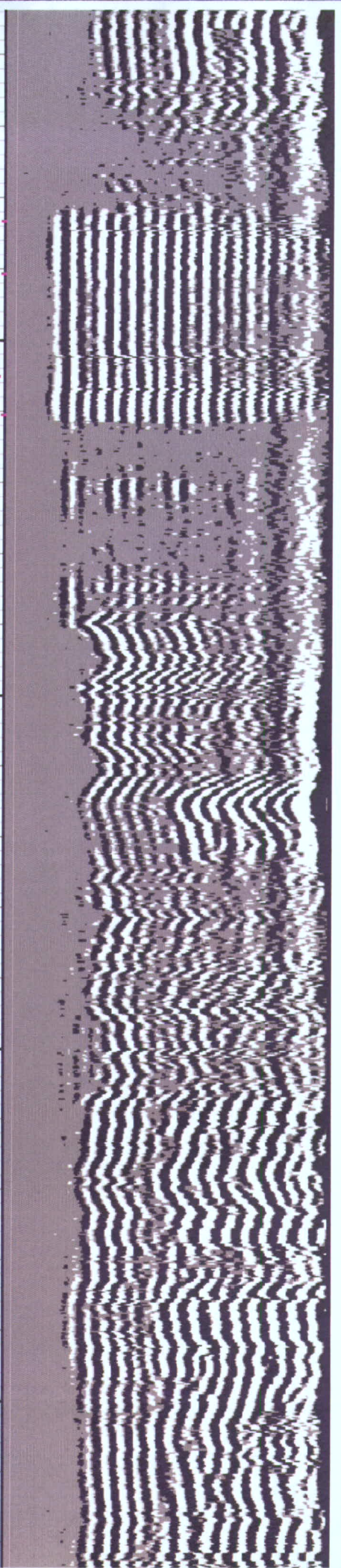
SHORT JOINT

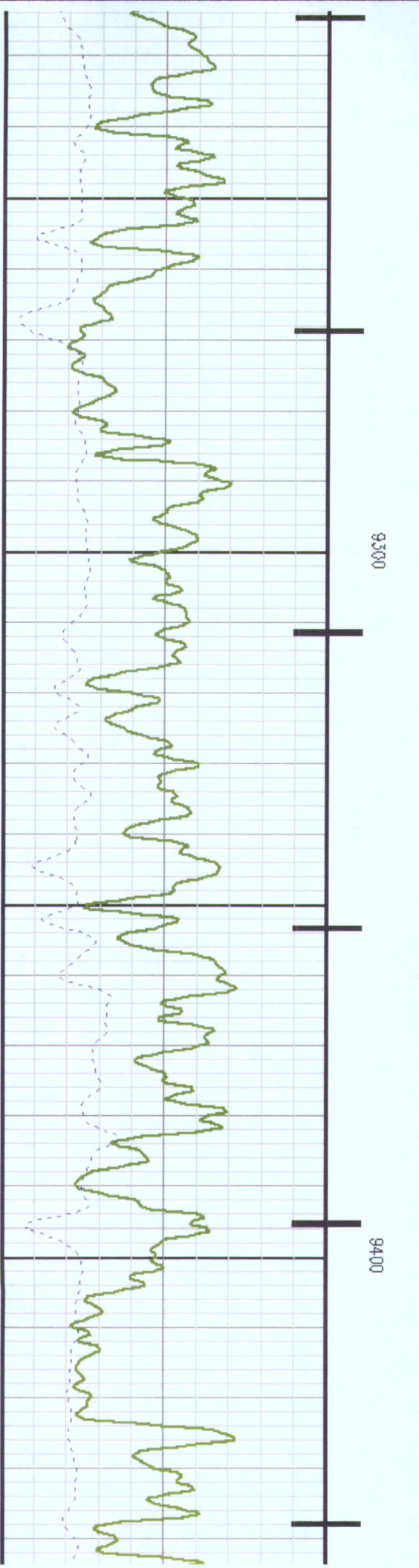
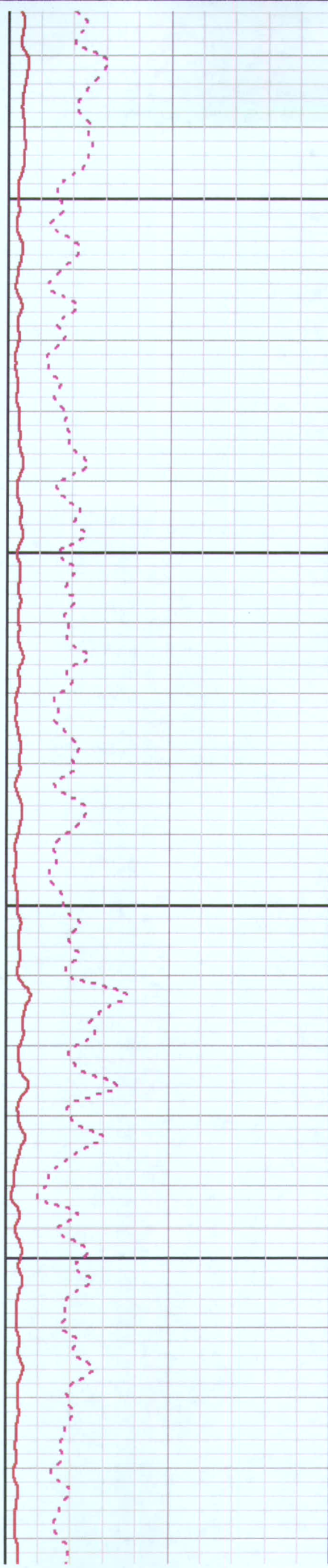
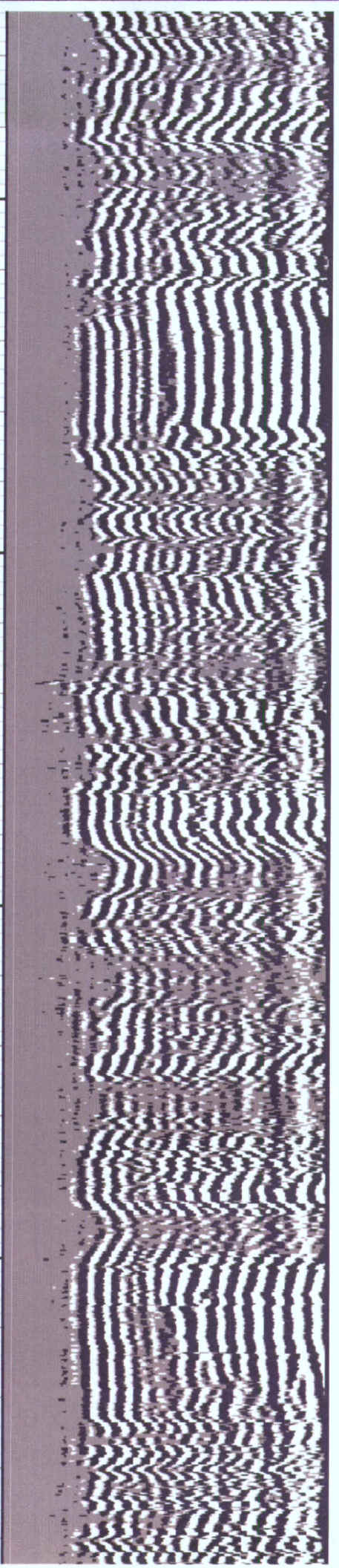


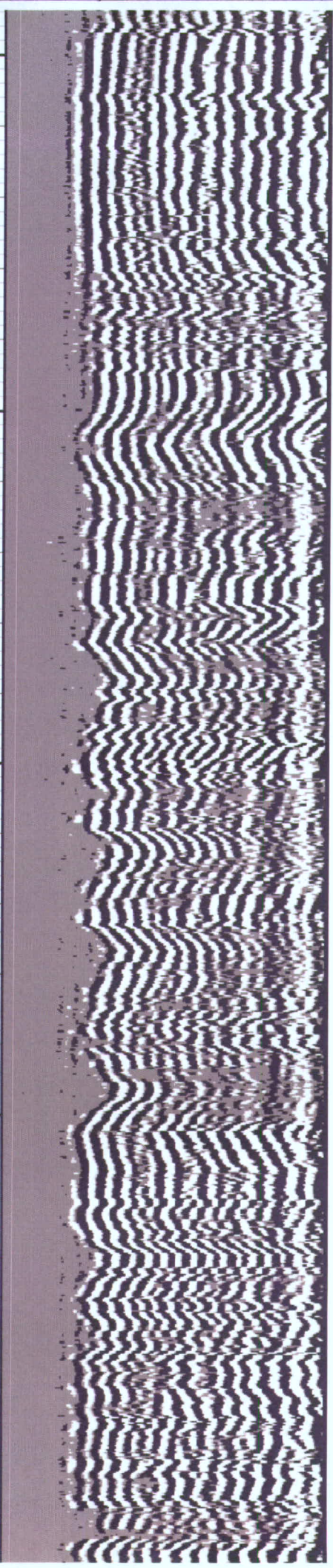
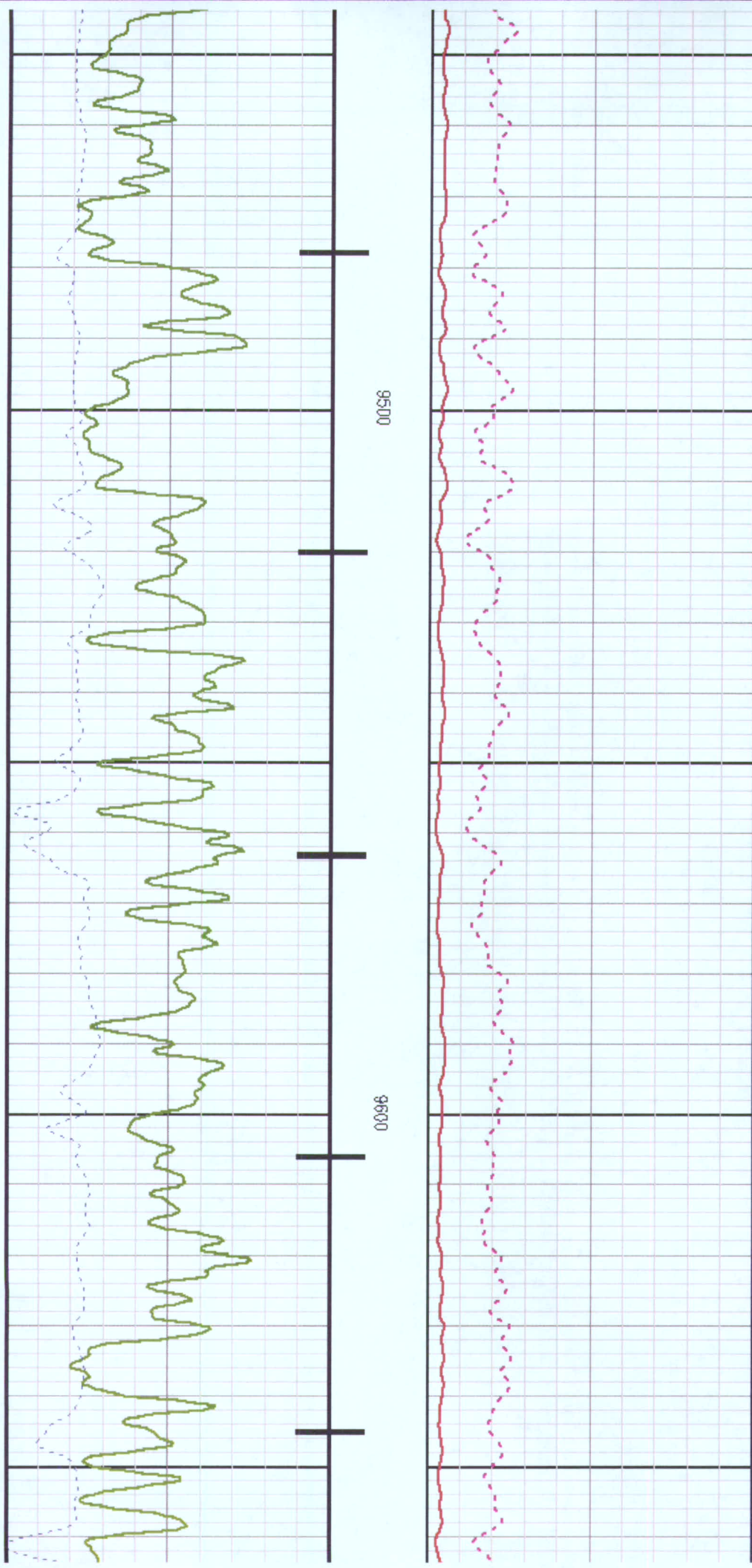
8600

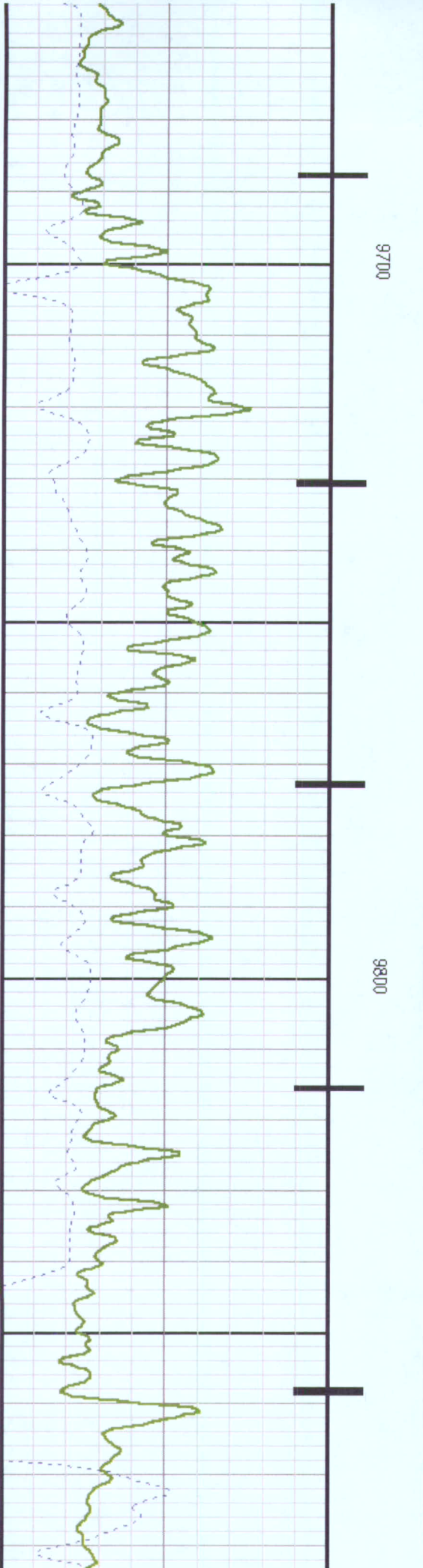
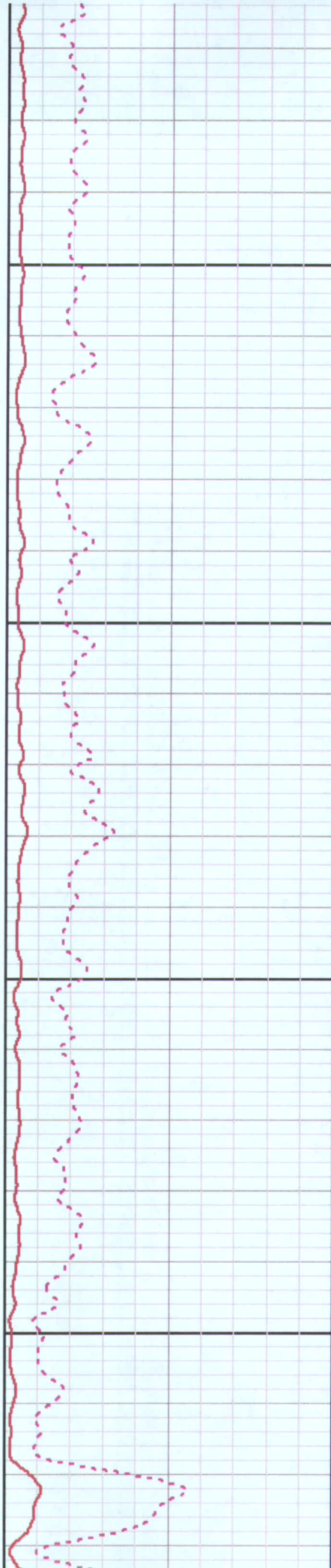
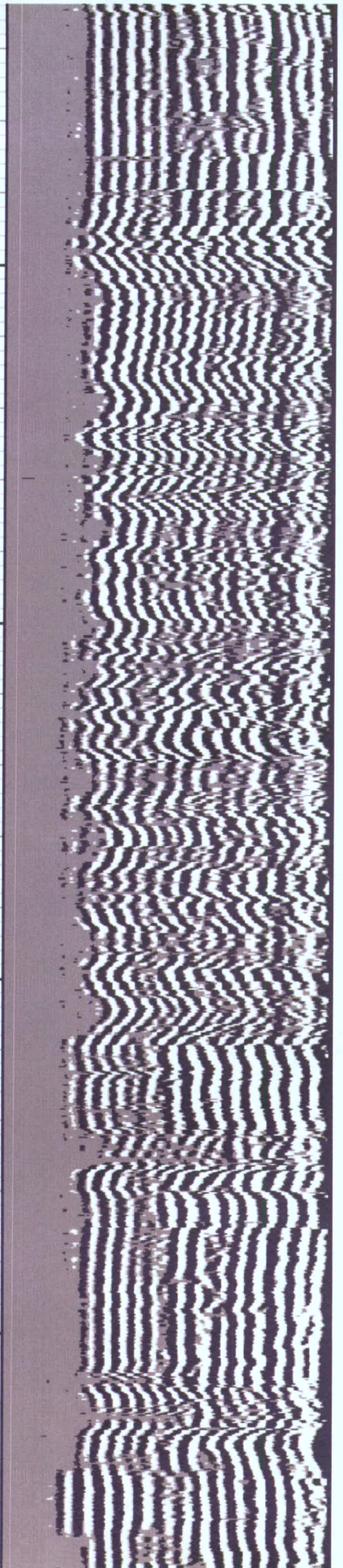
8700

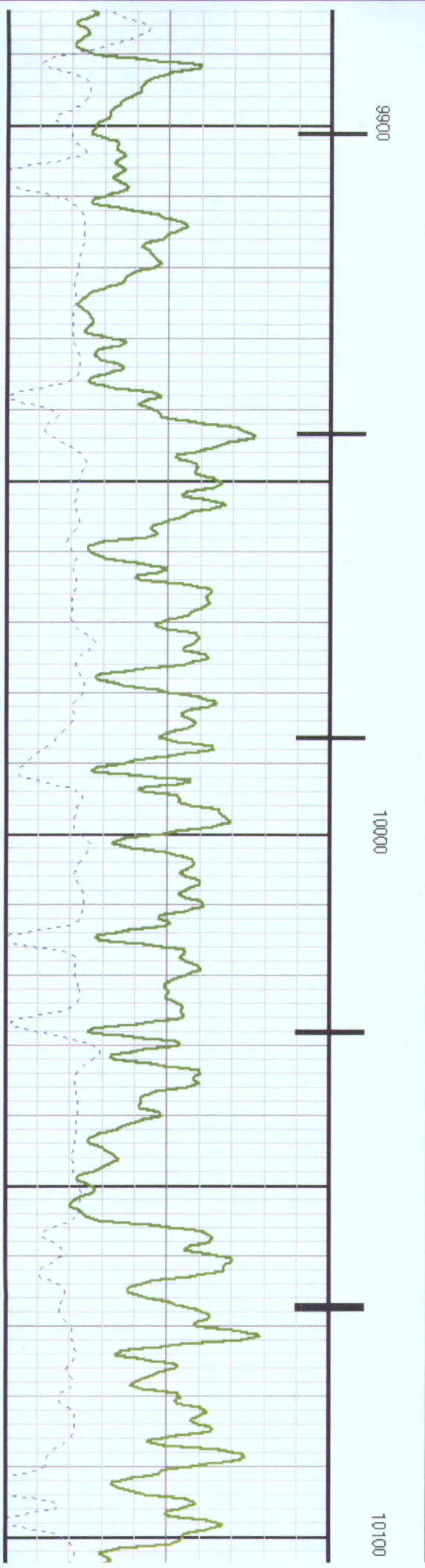
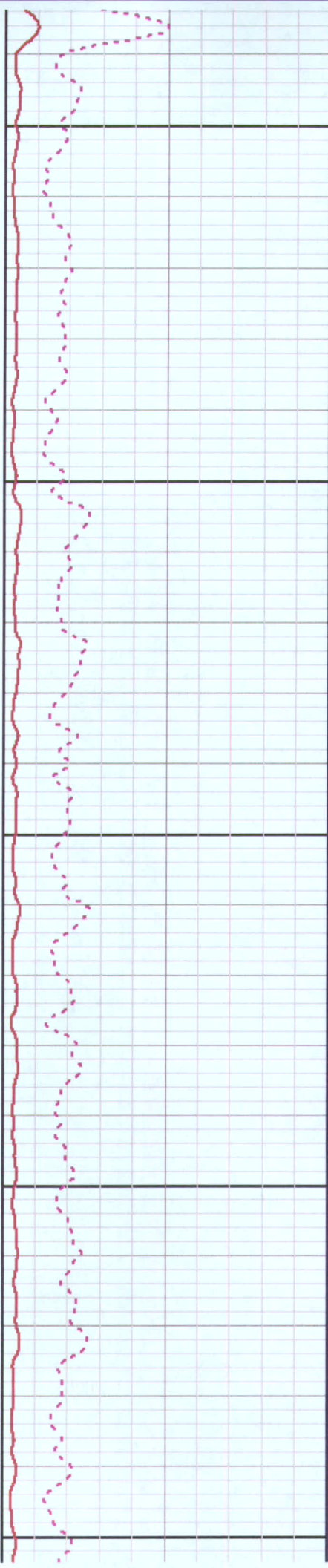
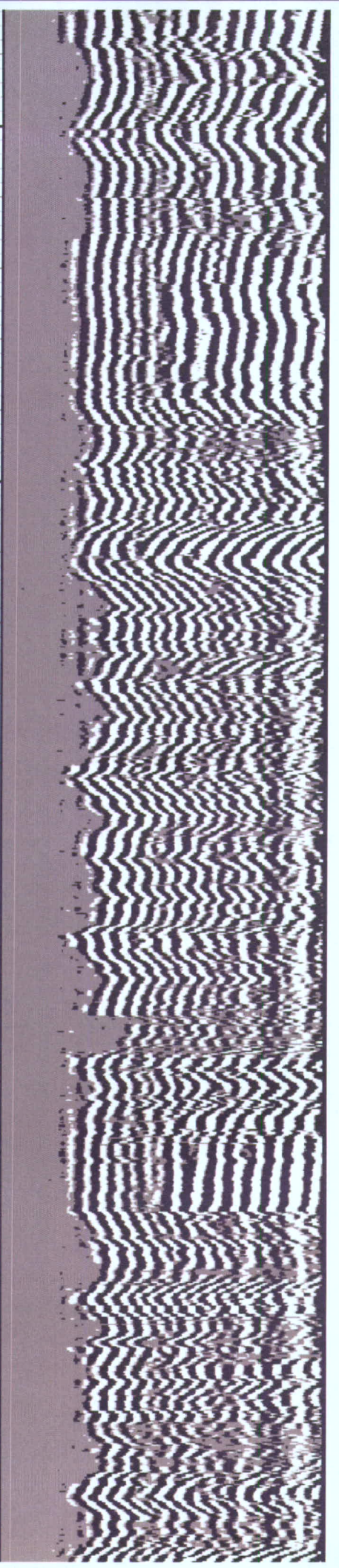


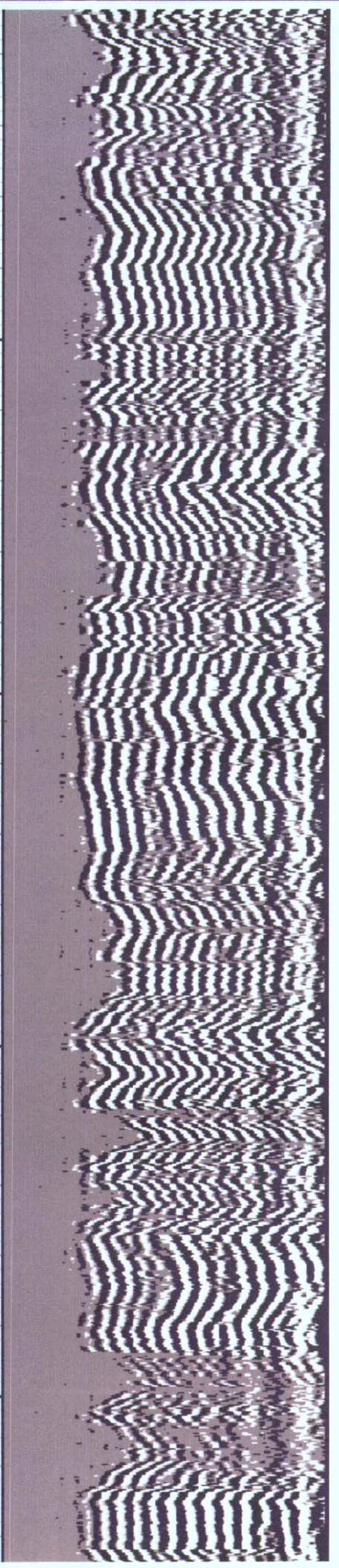




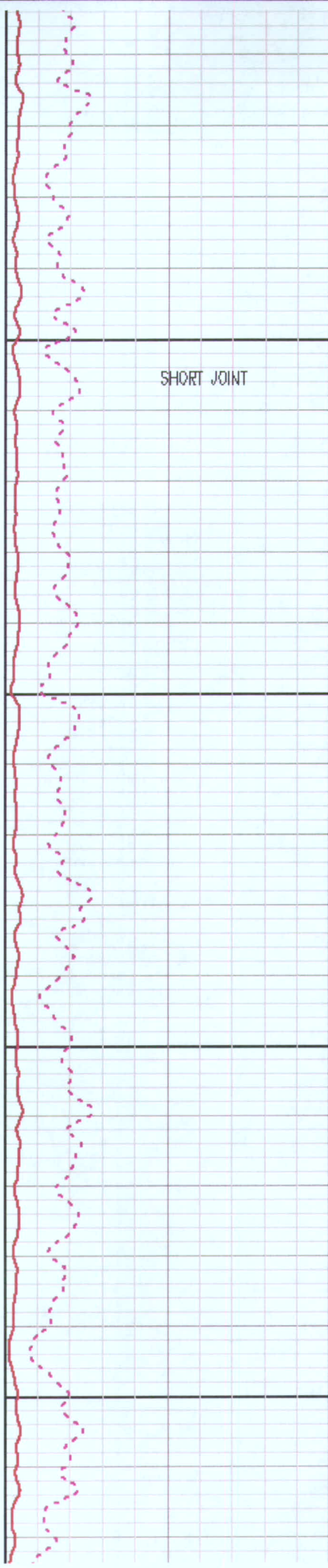






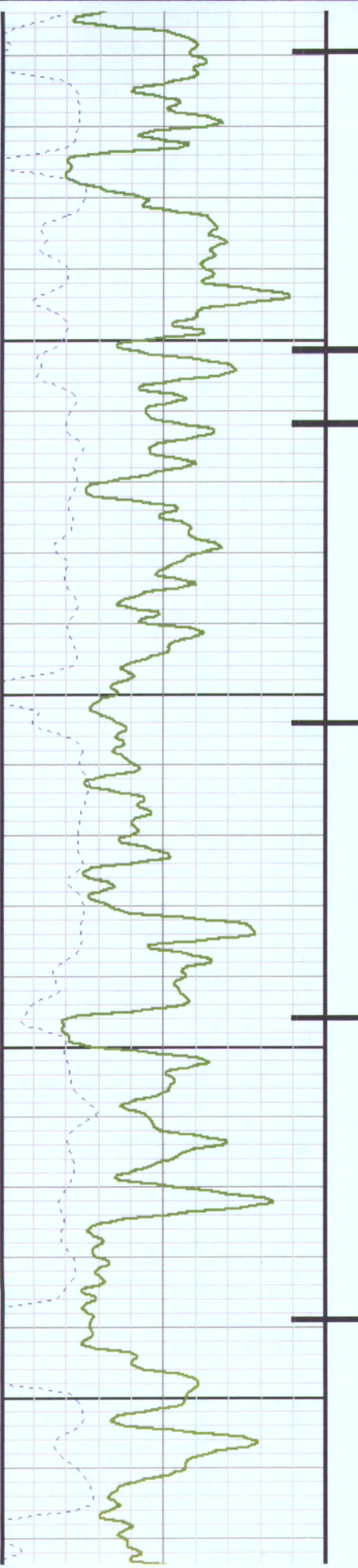


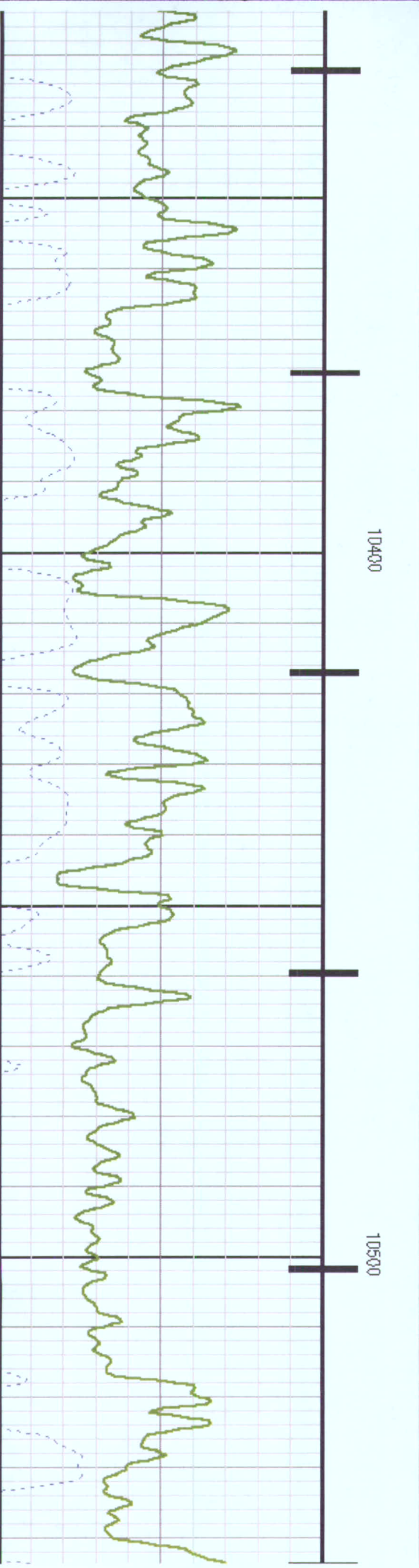
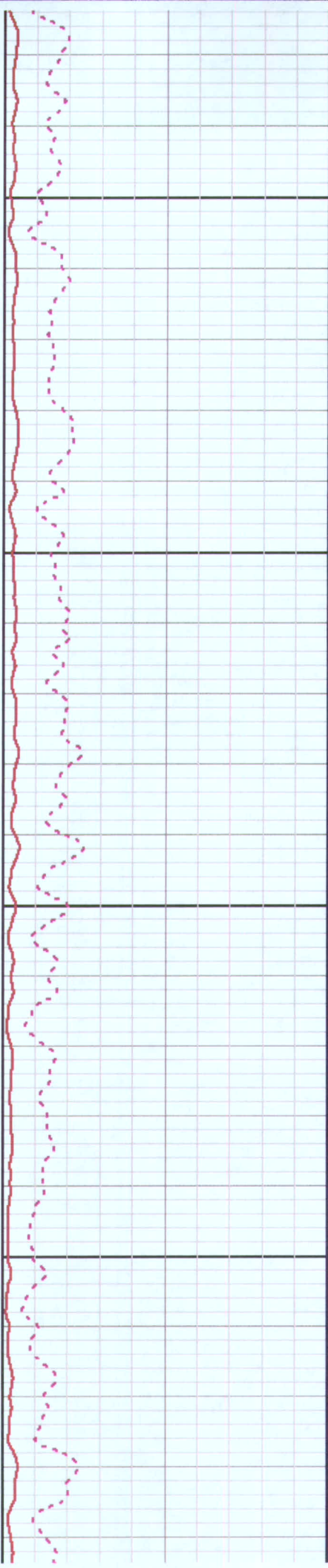
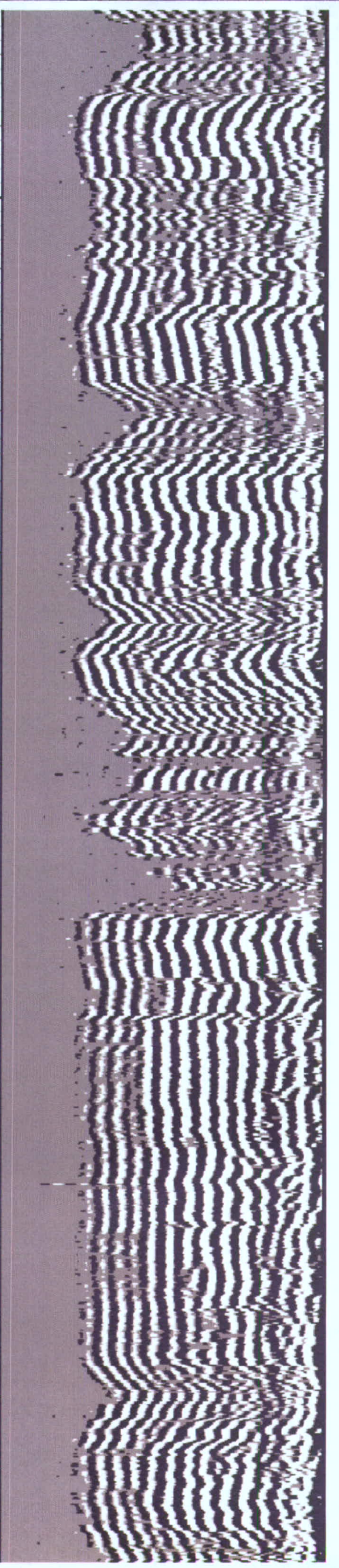
SHORT JOINT

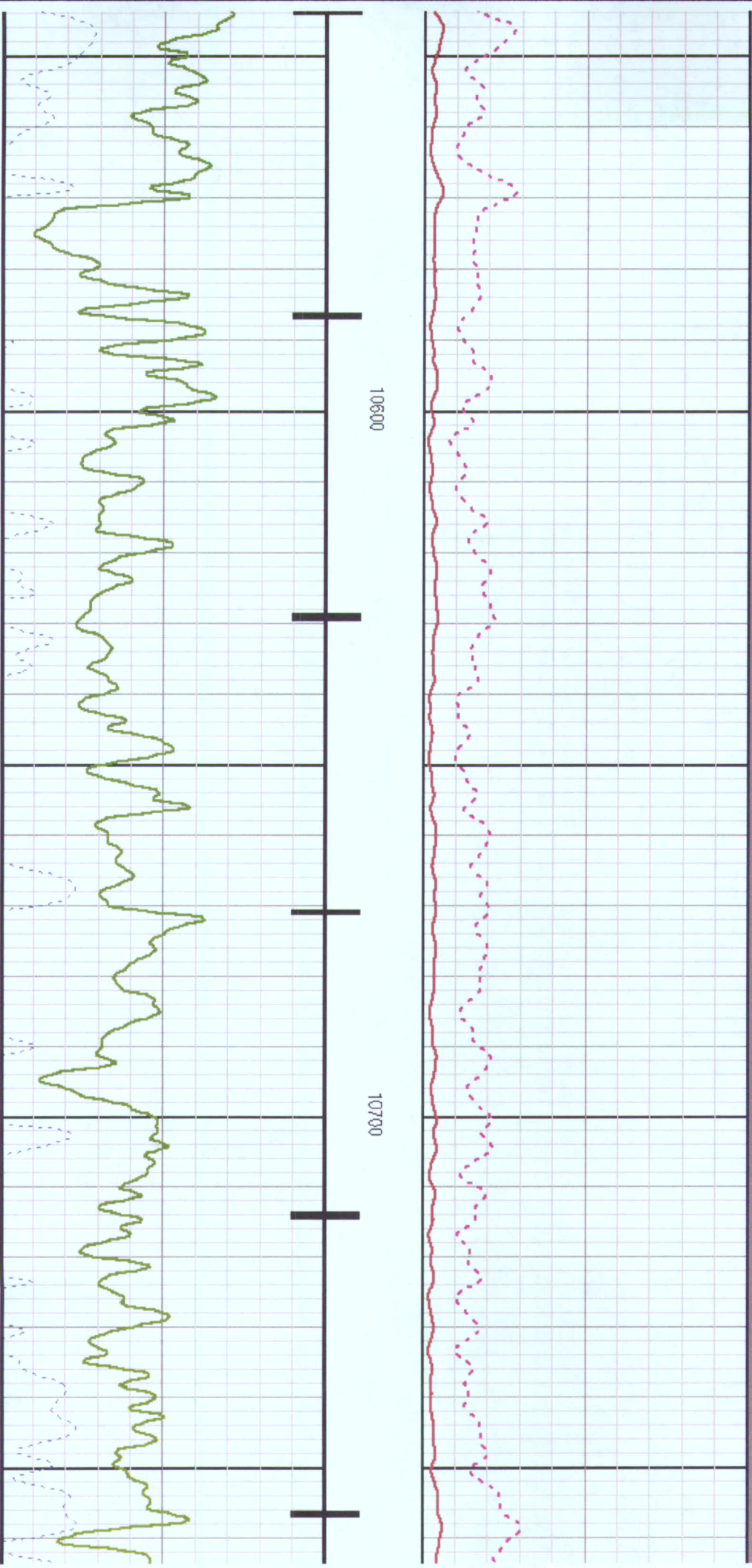
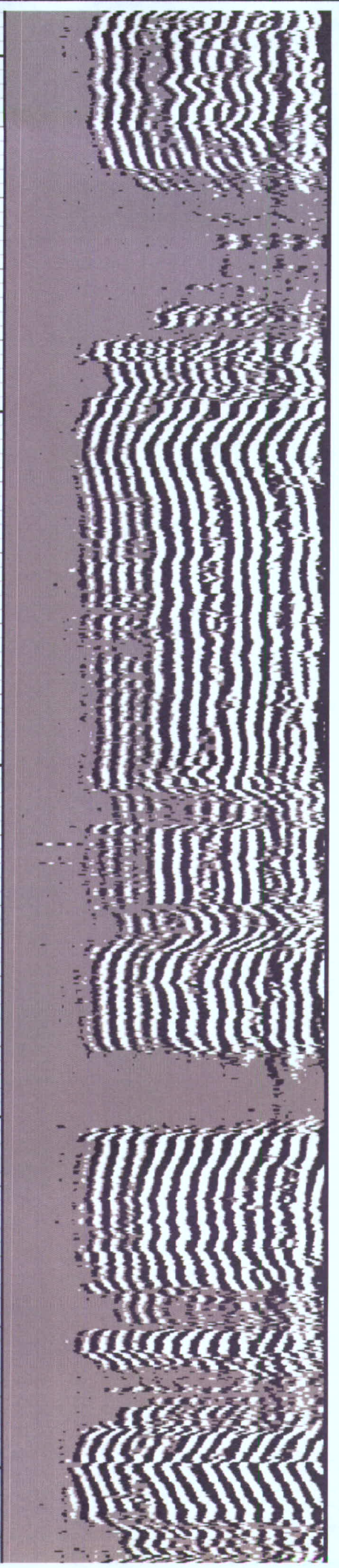


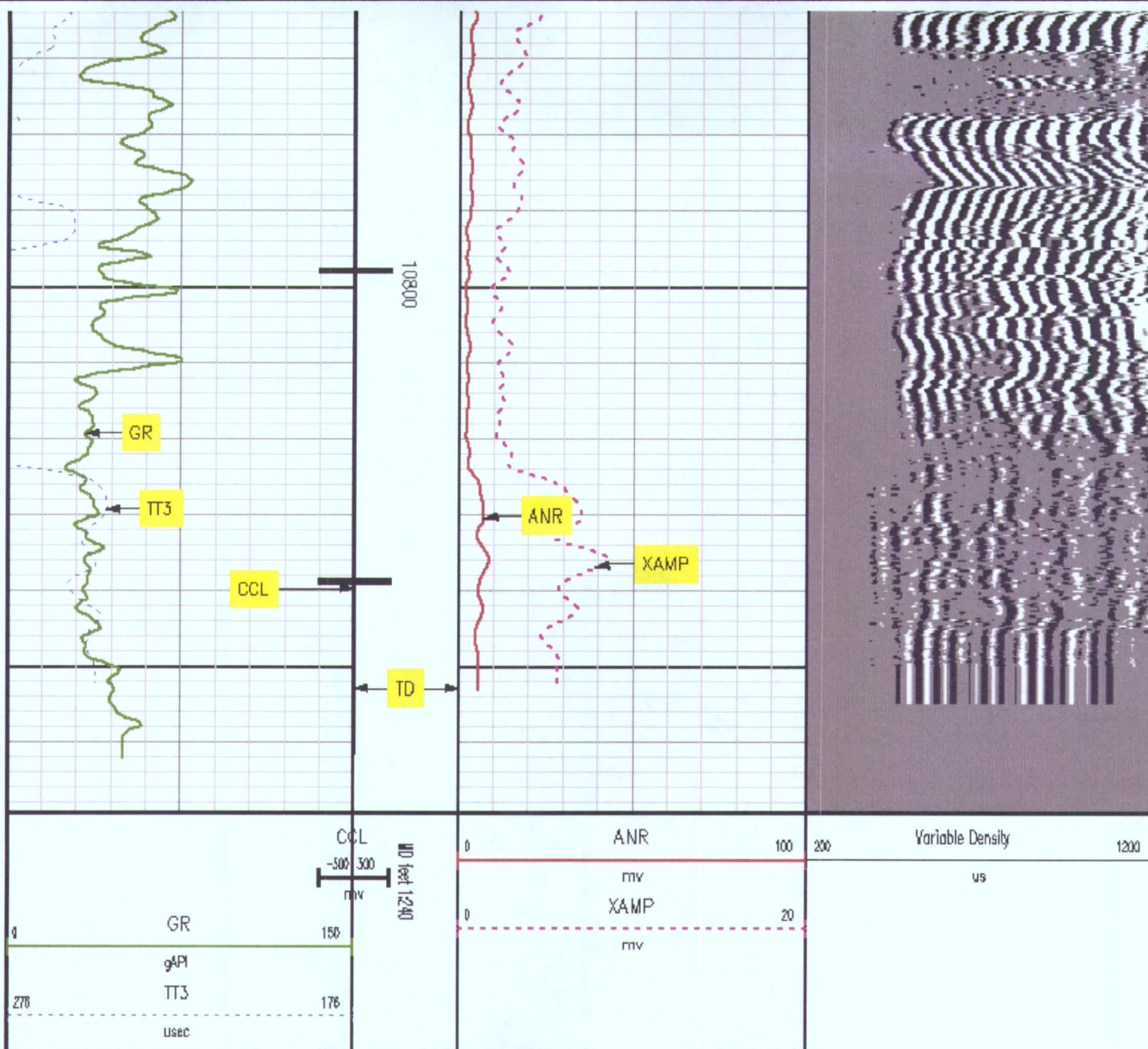
10200

10300









REPEAT SECTION

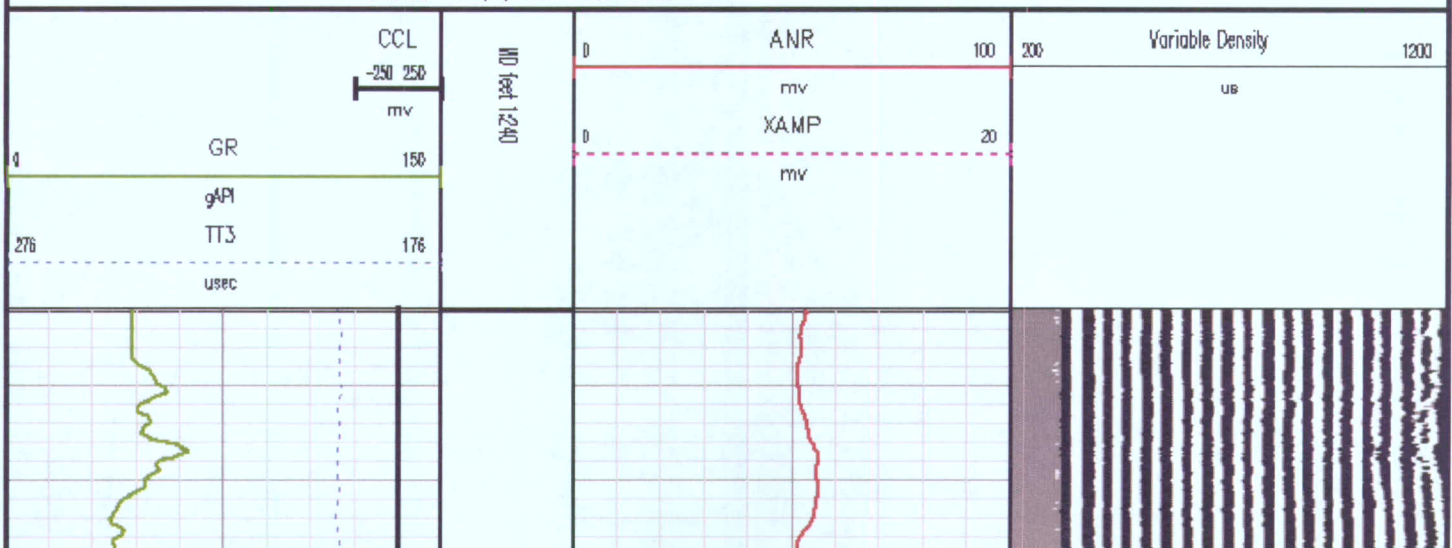
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	316.900	usec	6403.000	6689.000
RAL	Amp Gate Start Near	200.391	usec	6403.000	6689.000
RAL	Amp Gate Start Radial	200.391	usec	6403.000	6689.000
RAL	Amp Gate Width Far	25.000	usec	6403.000	6689.000

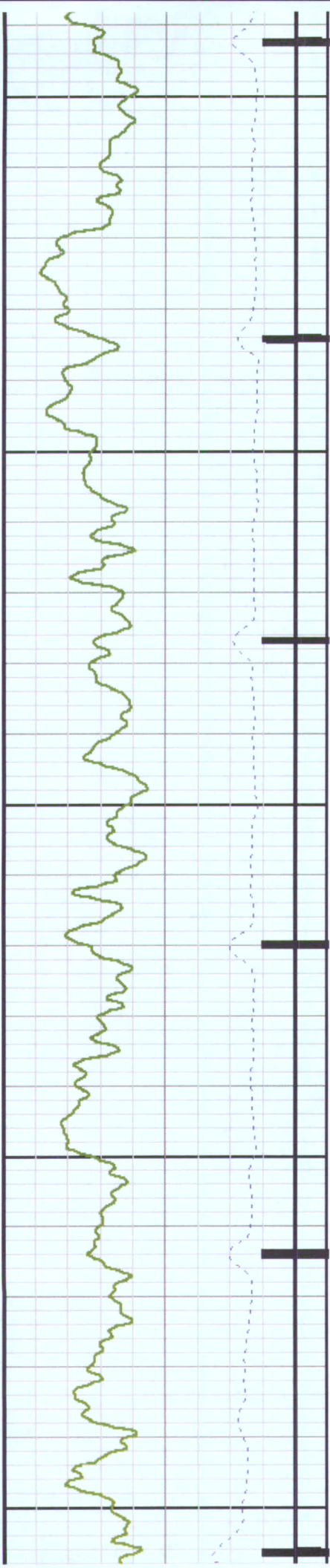
RAL	Amp Gate Width Near	25.000	usec	6403.000	6689.000
RAL	Amp Gate Width Radial	25.000	usec	6403.000	6689.000
RAL	casing od	4.500	inches	6403.000	6689.000
RAL	casing wt	11.600	lbm/ft	6403.000	6689.000
RAL	FB Start Far	291.900	usec	6403.000	6689.000
RAL	FB Start Near	175.391	usec	6403.000	6689.000
RAL	FB Start Radial	175.391	usec	6403.000	6689.000
RAL	FB Thresh Far	15.000	mv	6403.000	6689.000
RAL	FB Thresh Near	10.000	mv	6403.000	6689.000
RAL	FB Thresh Radial	10.000	mv	6403.000	6689.000
RAL	Fluid Travel Time	200.000	usec/ft	6403.000	6689.000

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	-14.360	AFAR	SIG	TT5					
1426XA	-7.250	CCL							
1426XA	-5.390	GR							
1426XA	0.000	NEU							

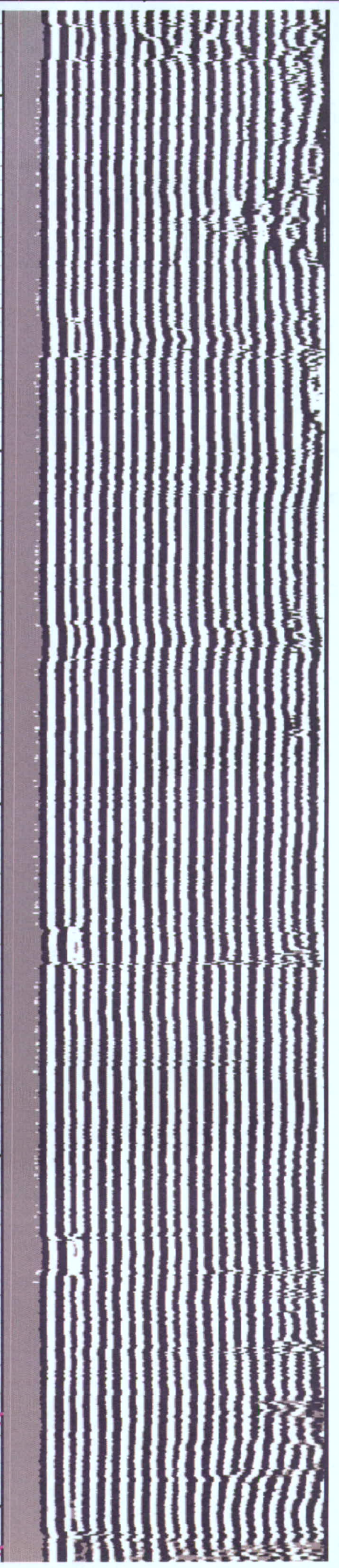
Created by : RAL, v4.8.007
 Plotted by : PlotMgr, v5.4.504
 Company : CONOCOPHILLIPS
 Well : NPM #CPOBA-05 A05 598
 File Name : d:\well\data\Brad\repeat2.ktf
 Mode : PlotMgr 5.4.504
 Interval : 6412.00 - 6681.00 feet UP
 Created : 2/6/2008 4:57:08 PM

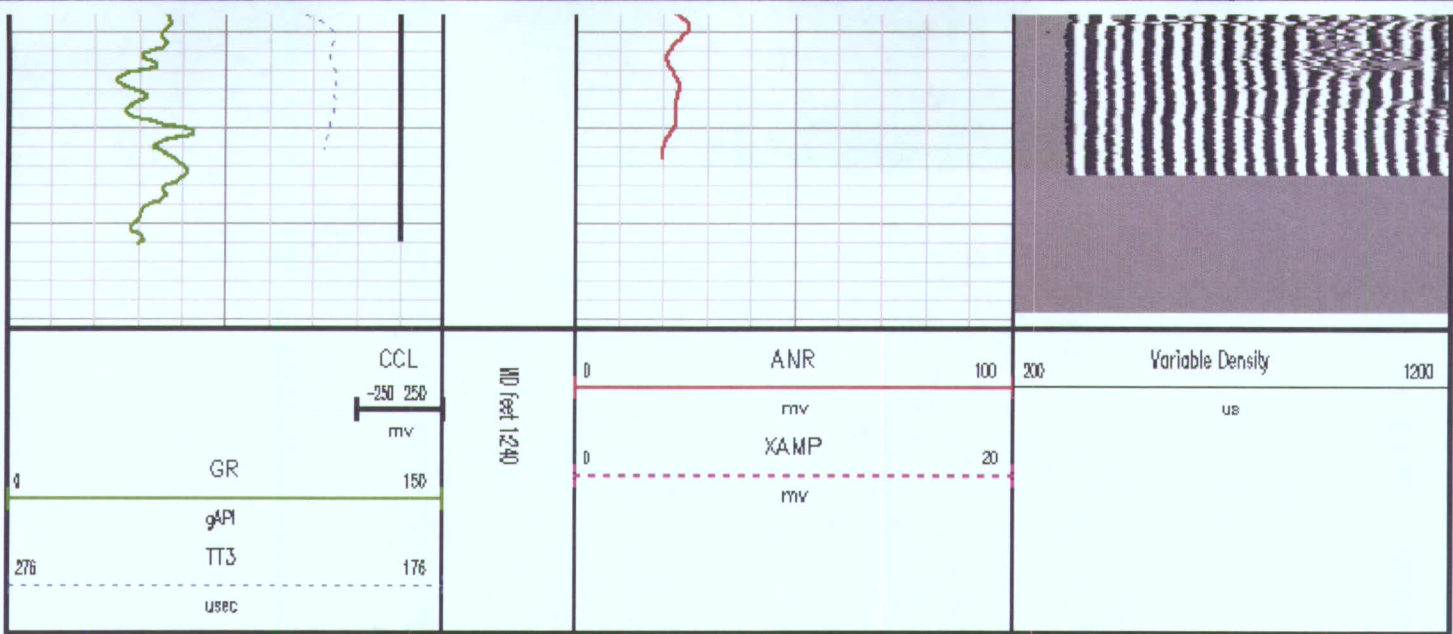




6500

6600





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\028F1_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Feb 04 10:44:24 2008 TOOL SERIES: 1426XA ASSET: 028 SEQ: F1

Tool Delay [usec]	-54.00	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	166	25	0.267	100.00	0.21
3 Ft. Receiver	219	216	30	166	25	0.683	100.00	0.21
5 Ft. Receiver	328	332	30	282	25	-9.188	150.00	0.22
Radial #1	218	216	30	166	25	-3.926	100.00	0.21
Radial #2	219	216	30	166	25	-0.699	100.00	0.21
Radial #3	218	216	30	166	25	-1.817	100.00	0.21
Radial #4	219	216	30	166	25	0.278	100.00	0.21
Radial #5	218	216	30	166	25	-0.962	100.00	0.20
Radial #6	218	216	30	166	25	1.142	100.00	0.21
Radial #7	218	216	30	166	25	-0.937	100.00	0.21
Radial #8	220	216	30	166	25	-0.765	100.00	0.21

GAMMA RAY

Calibration File: C:\case\calver\GR\120E1.cal

CALIBRATION SUMMARY							
DATE/TIME PERFORMED:		Mon Feb 04 10:37:59 2008		TOOL SERIES:	1426XA	ASSET:	120 SEQ: F1
Calibrator #	Background	Calibrator On	Multiplicative	Background	Calibrator On	Differential	
	[cps]	[cps]		[api]	[api]	[api]	
RA22B BA658	135.24	307.42	0.581	78.55	178.55	100.00	

Verification File: C:\case\calver\GR\120E2.VP

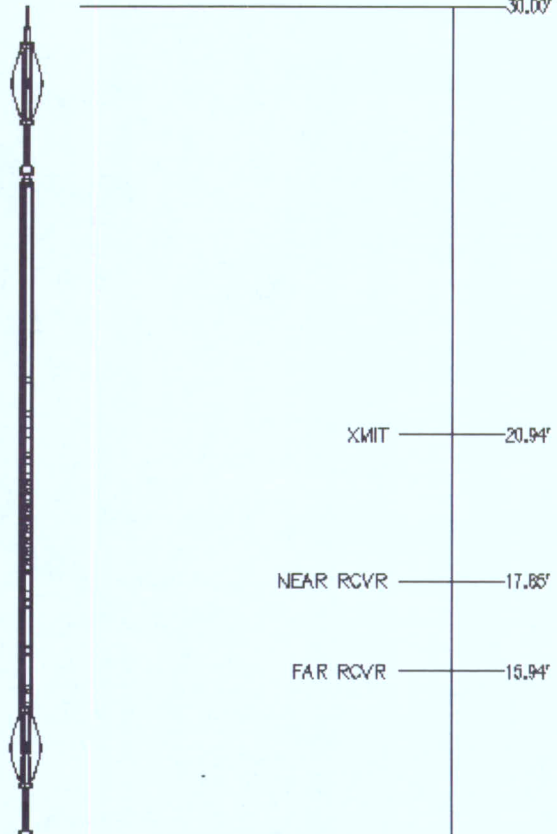
PRIMARY LOG VERIFICATION							
DATE/TIME PERFORMED:		Mon Feb 04 10:42:57 2008		TOOL SERIES:	1426XA	ASSET:	120 SEQ: F2
Calibrator #	Background	Calibrator On	Multiplicative	Background	Calibrator On	Differential	
	[cps]	[cps]		[api]	[api]	[api]	
RA22B BA658	138.49	307.87	0.582	79.40	179.08	99.69	

TOOL DIAGRAM

<i>OTA SHORT CABLE HEAD</i>	
<i>CENTRALIZER</i>	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

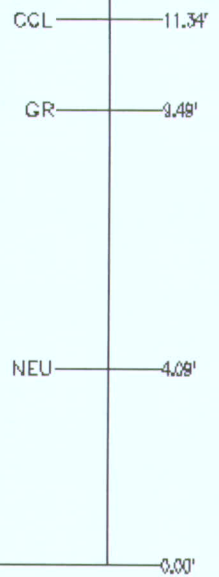
PROBE 2 3/4 DUAL RECEIVER RADII (1426XA)

<i>CENTRALIZER</i>	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb





<i>Probe GR/CCL/NEU</i>	
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

<i>CENTRALIZER</i>	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb



Total Length: 30.00'
 Total Weight: Not Available
 Max Diameter: 0" 3.12"

 Baker Atlas 	Company CONOCOPHILLIPS Well NPM #CP08A-05 A05 598 Field NORTH PARACHUTE CREEK County GARFIELD State COLORADO	File No: 1579A API No: 05-045-14366
	Location SHL: 470' FNL & 499' FEL NE/NE BHL: 1850' FNL & 330' FEL SE/NE SEC 5 TWP 5S RGE 98W	Elevations KB 8420 ft OF 8419 ft GL 8402 ft