




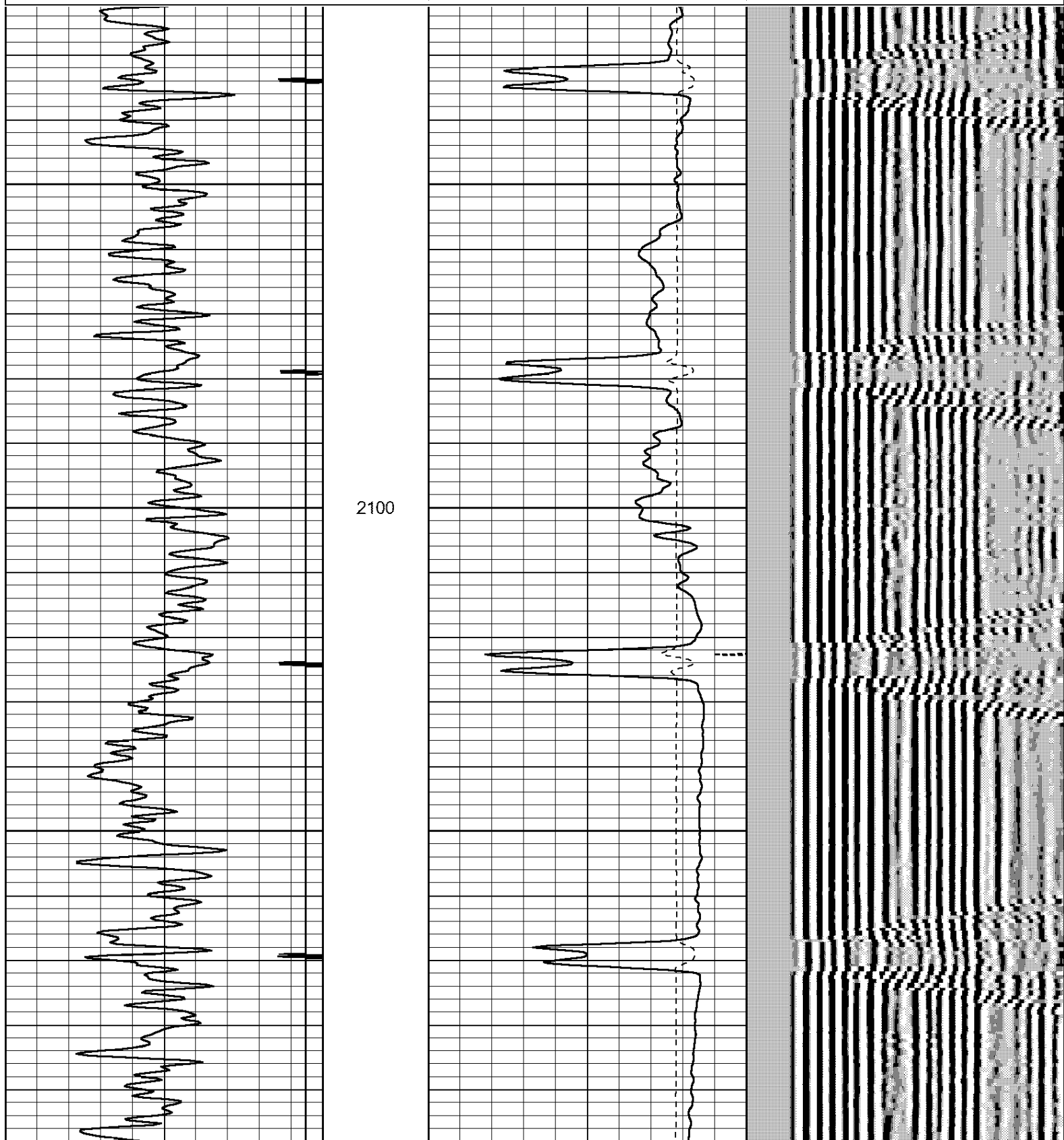
Comments
LOG CORRELATED TO HRI/CDN DATED 12-MAR-2012 THANK YOU FOR CHOOSING PURE ENERGY SERVICES

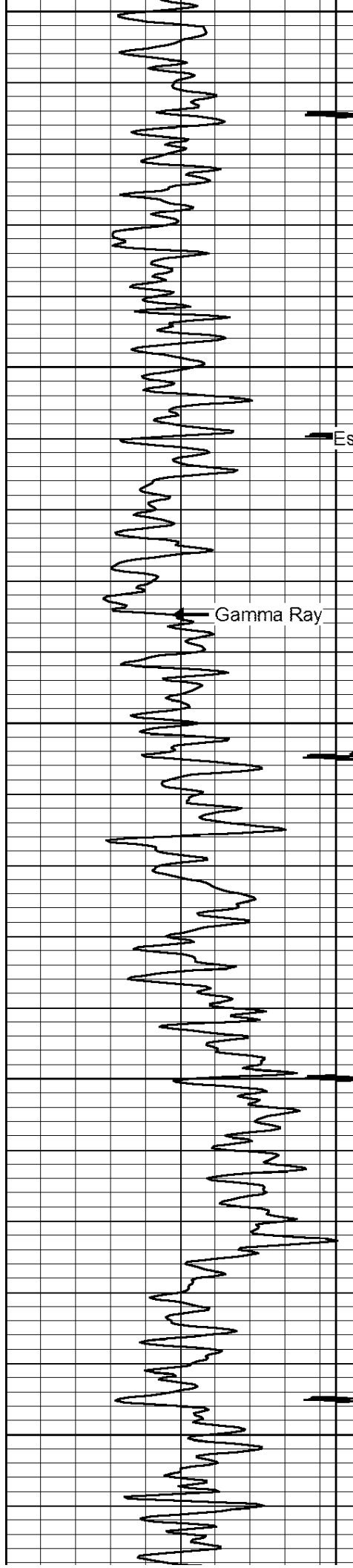
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			SENT 75100 (101)	0.70	0.75	10.00

			CENT-TEKCO (101)	2.73	2.75	10.00
WVFS1	16.00					
WVFS2	16.00					
WVFS3	16.00		TEKSCBL-TEKCO275 (0001)	9.33	2.75	100.00
WVFS4	16.00					
WVFS5	16.00					
WVFS6	16.00					
WVFS7	16.00					
WVFS8	16.00					
WVFCAL	15.25					
WVFSYNC	10.42					
			CENT-TEKCO (101)	2.73	2.75	10.00
CCL	6.83		CCL-2.75 (TEKCO) 2.75 TEKCO CCL	1.55	2.75	10.00
			GR-TEKCO (101SGR) 2.75 HIGH TEMP LOGGING GR	3.41	2.75	25.00
GR	3.79					
			CENT-TEKCO (101)	2.73	2.75	10.00
Dataset: sunmark 19-28-13_cbl.db: field/well/run1/pass4 Total Length: 22.48 ft Total Weight: 165.00 lb O.D.: 2.75 in						

Database File: sunmark 19-28-13\_cbl.db  
 Dataset Pathname: pass4  
 Presentation Format: p\_cbl  
 Dataset Creation: Mon Mar 26 20:21:21 2012 by Log SCH 120126  
 Charted by: Depth in Feet scaled 1:240

Collar Locator			0	3 FT Amplitude x 5 (mV)	20	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	3 FT Amplitude (mV)	100			
			650	3' Travel Time (usec)	150			





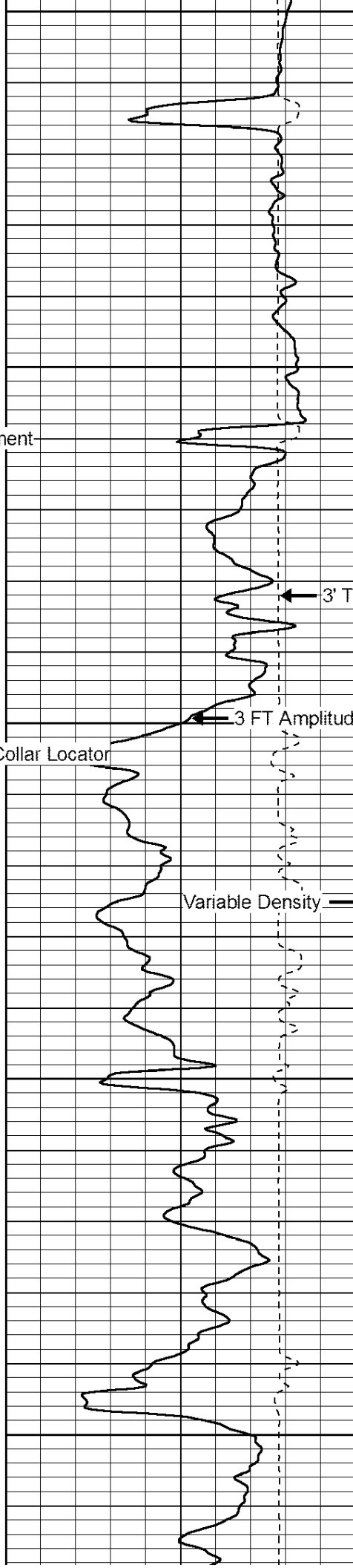
Est. Top of Cement

Gamma Ray

2300

Casing Collar Locator

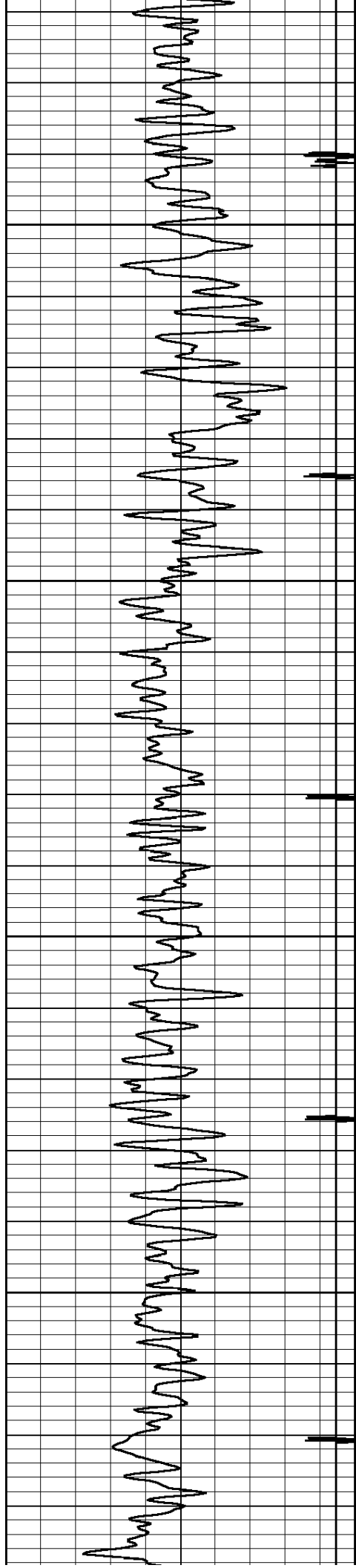
2400



3' Travel Time

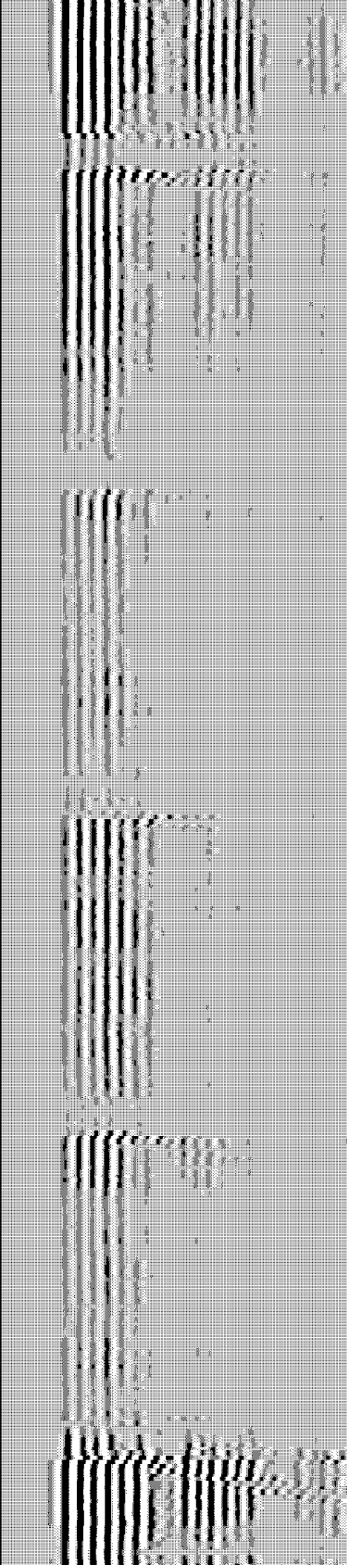
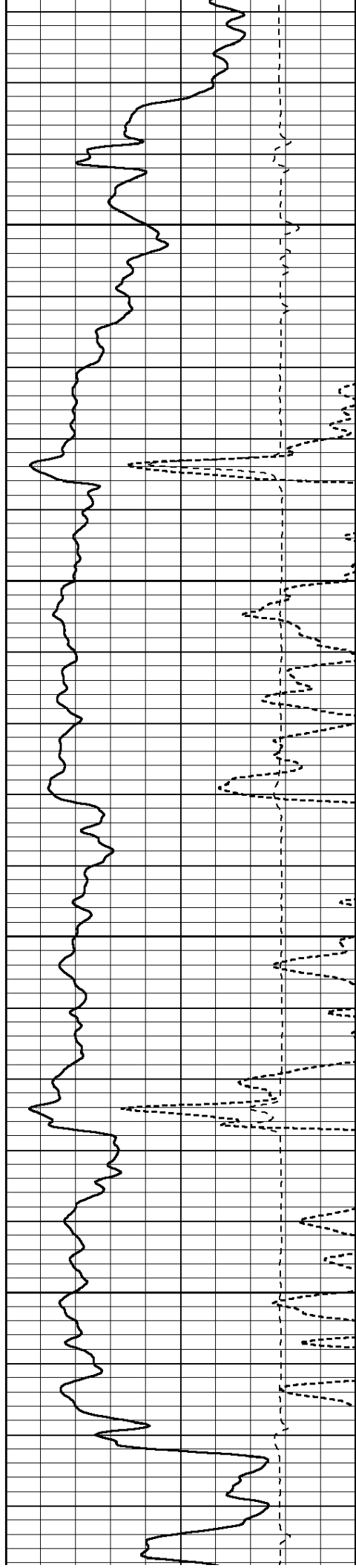
3 FT Amplitude

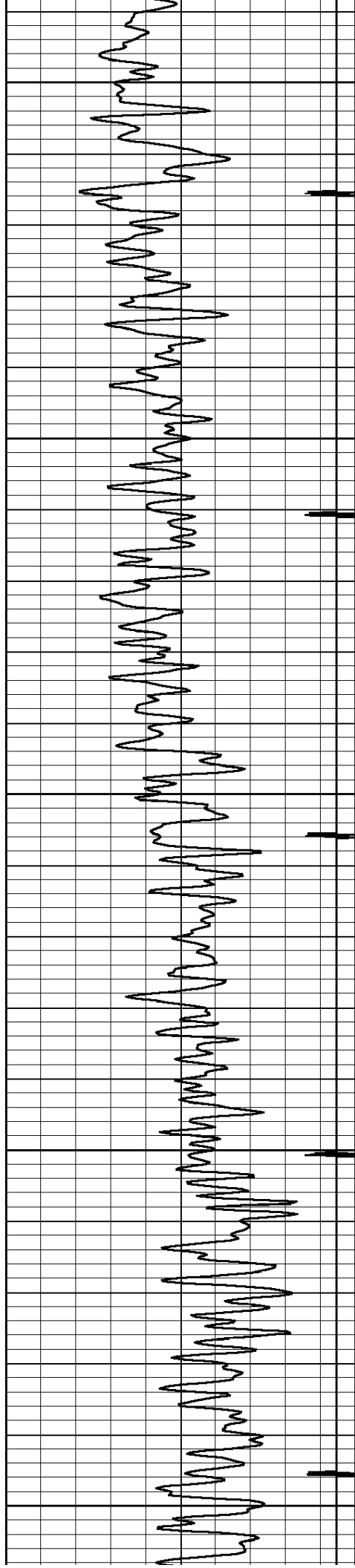
Variable Density



2500

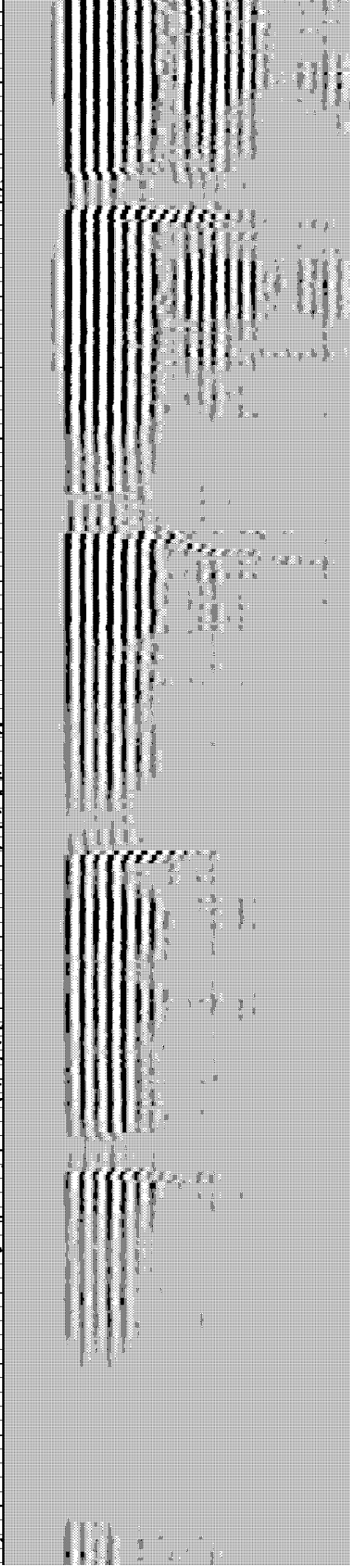
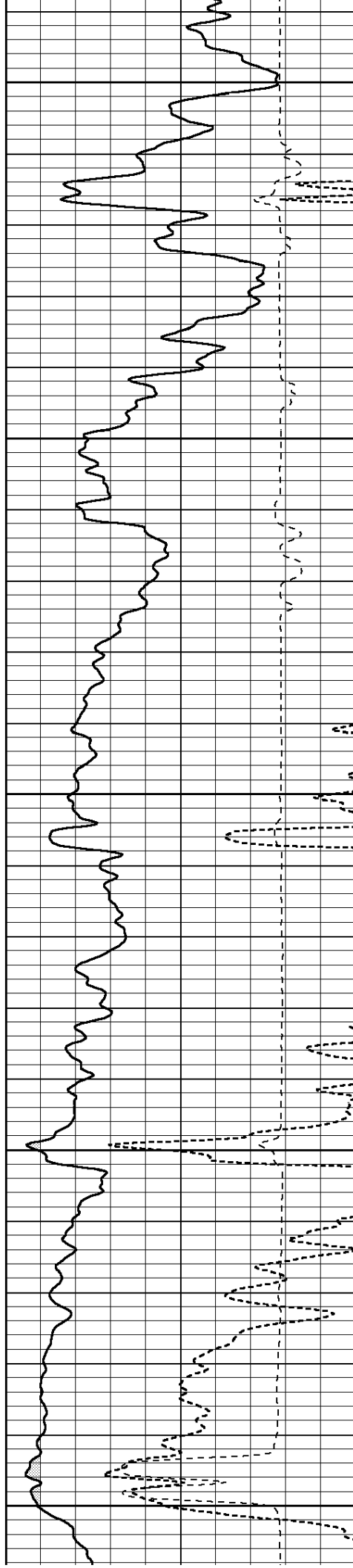
2600

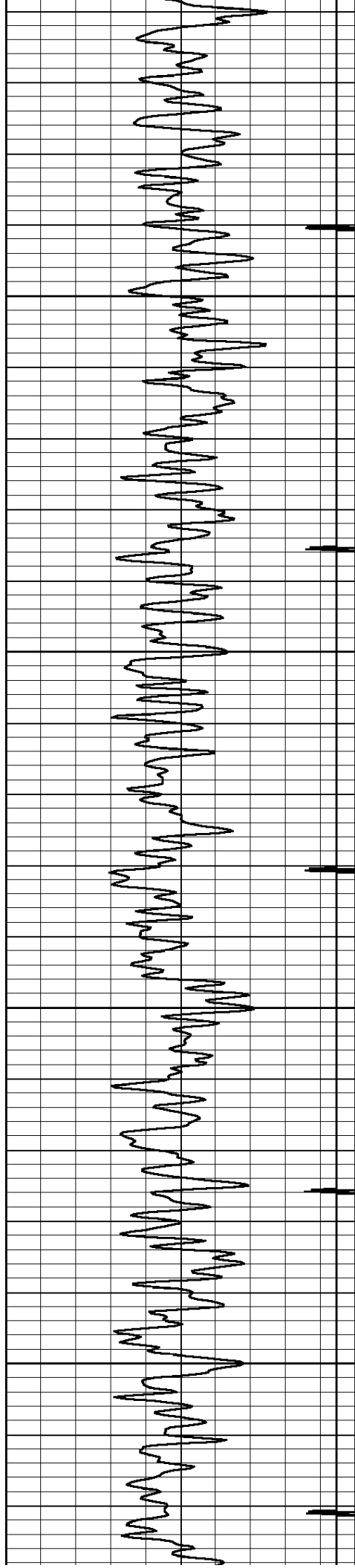




2700

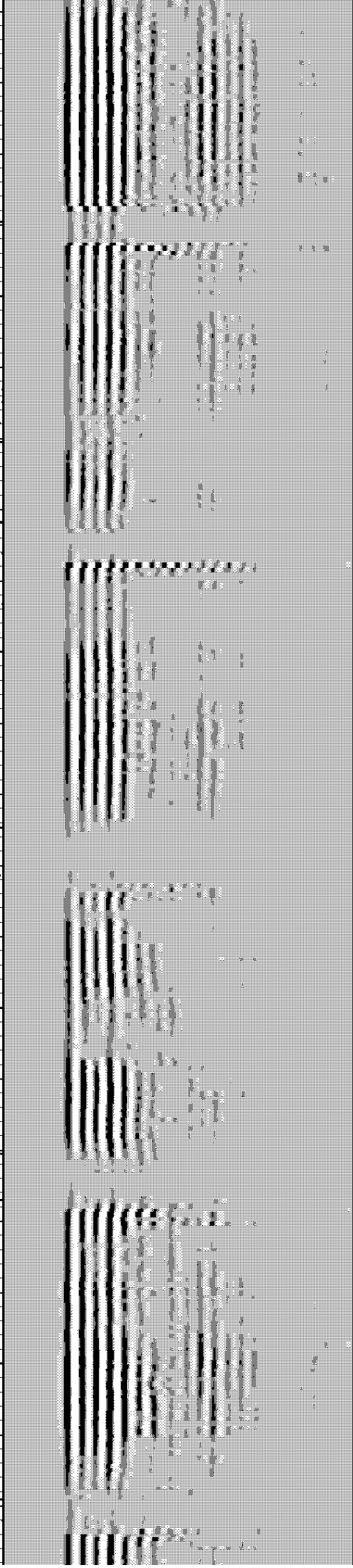
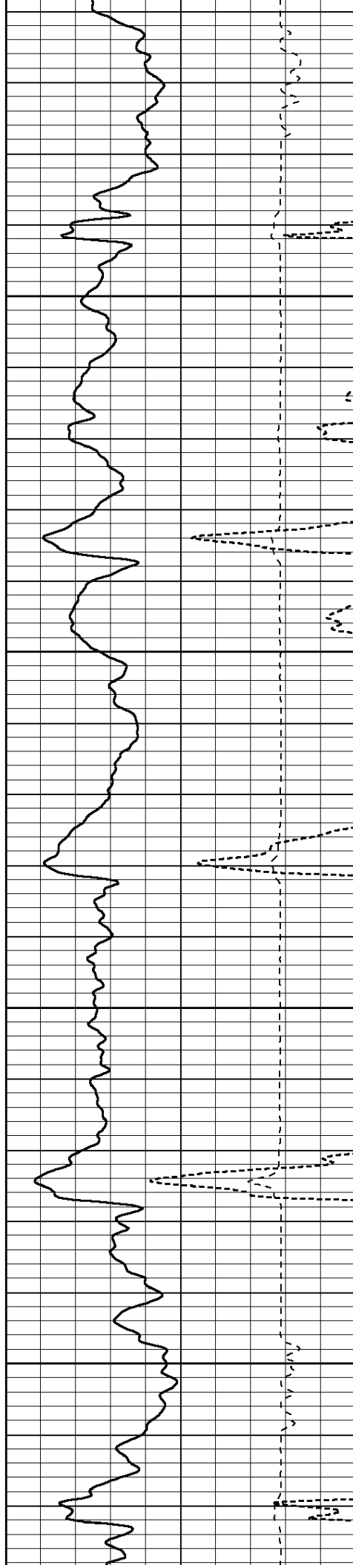
2800



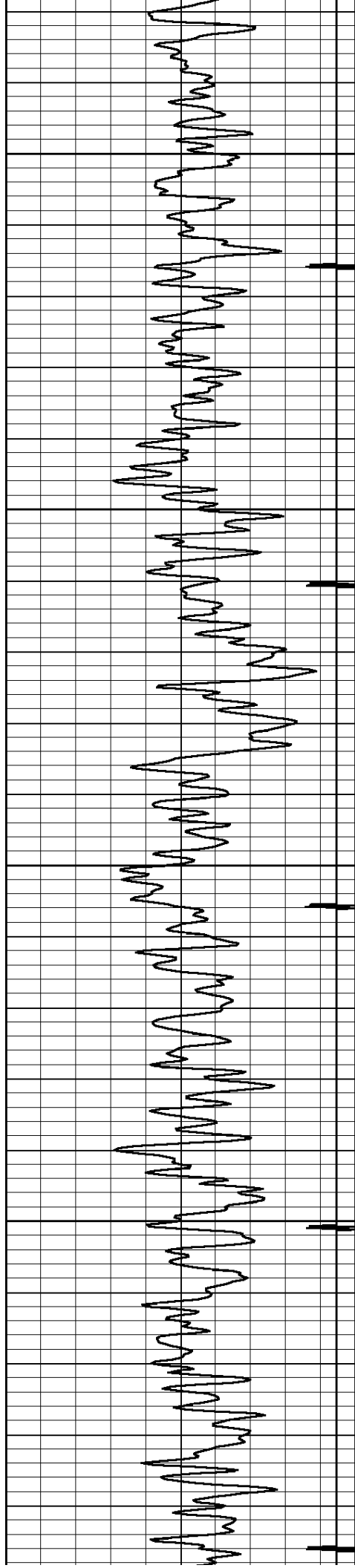


2900

3000

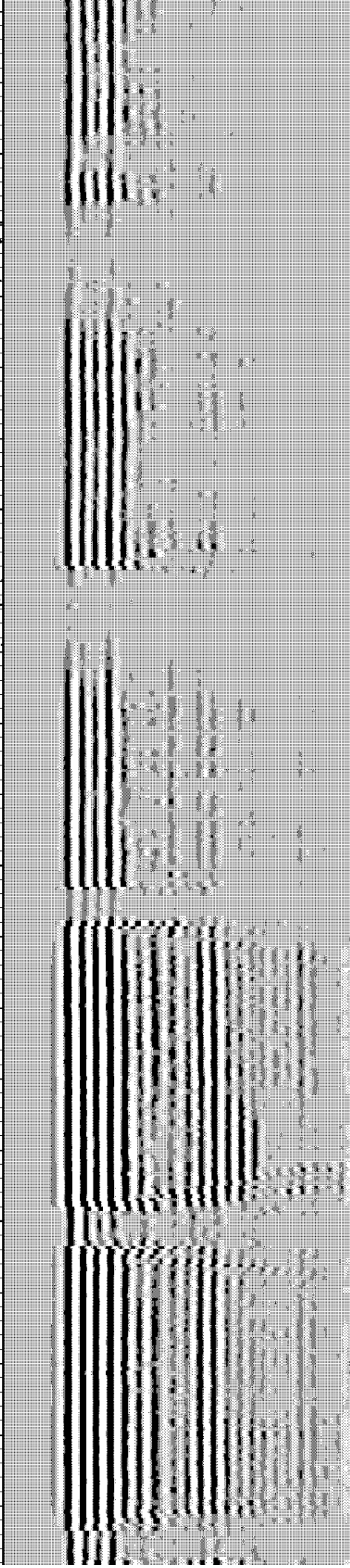
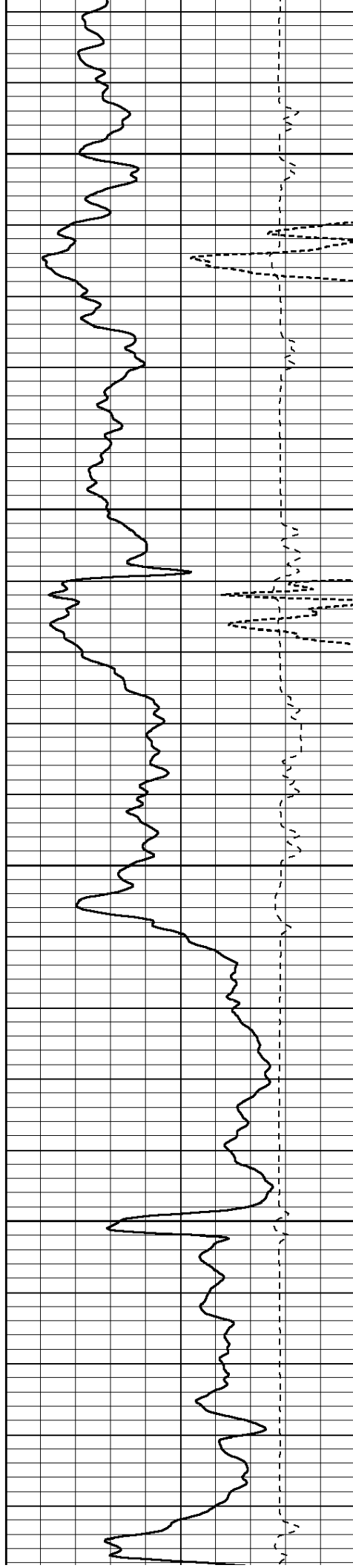




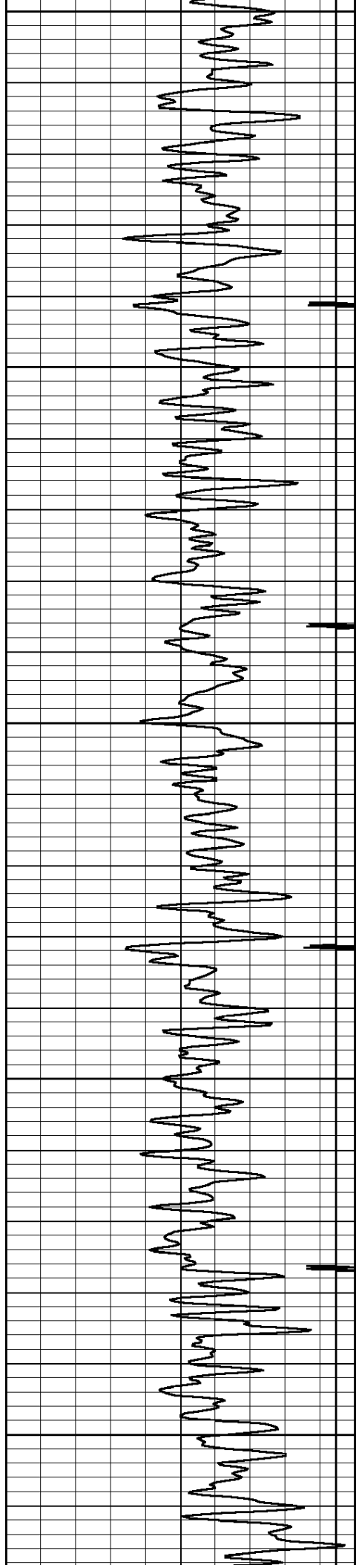


3100

3200



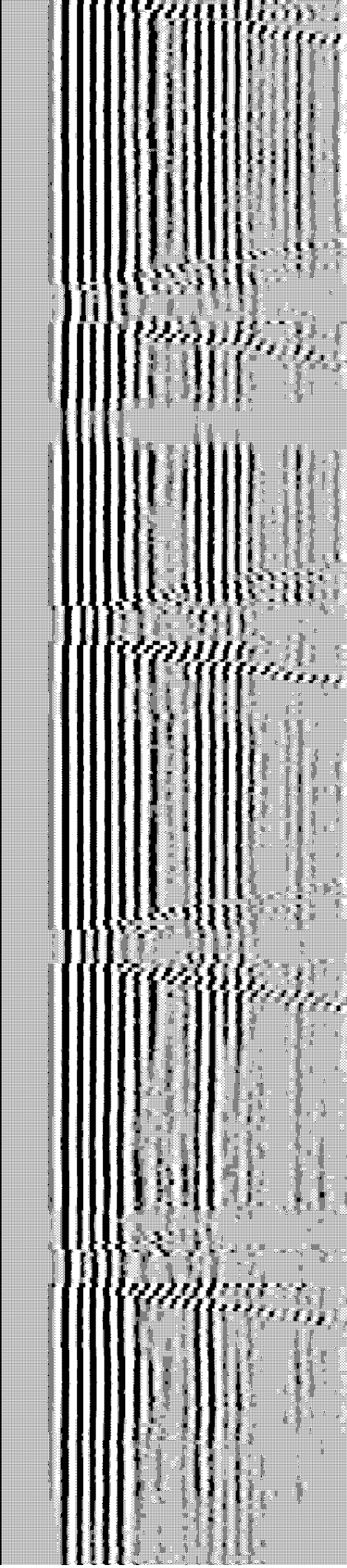
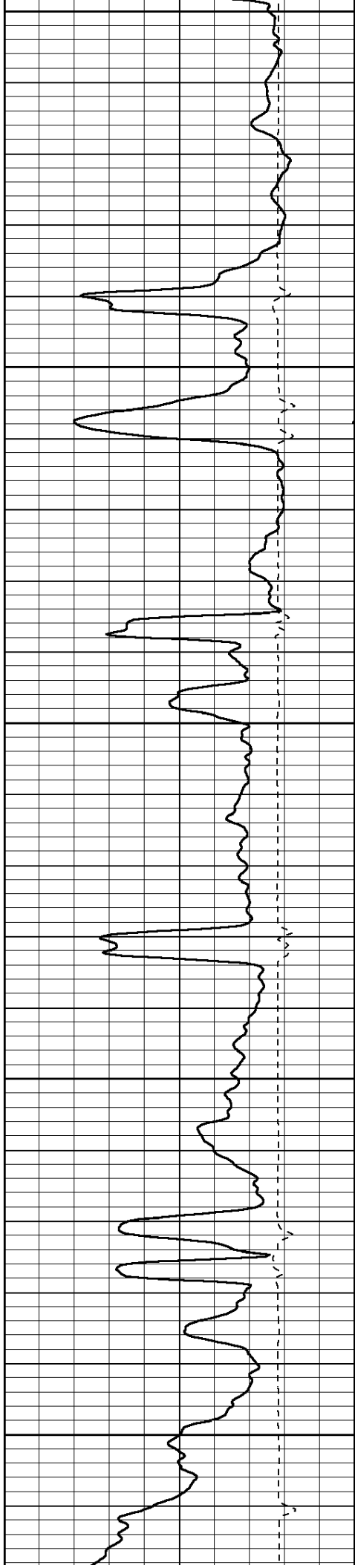


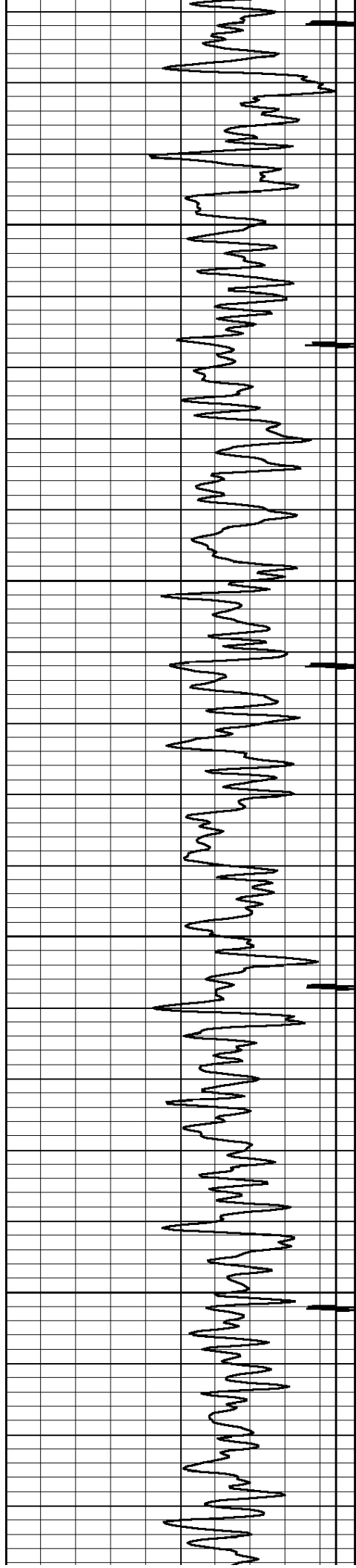


3300

3400

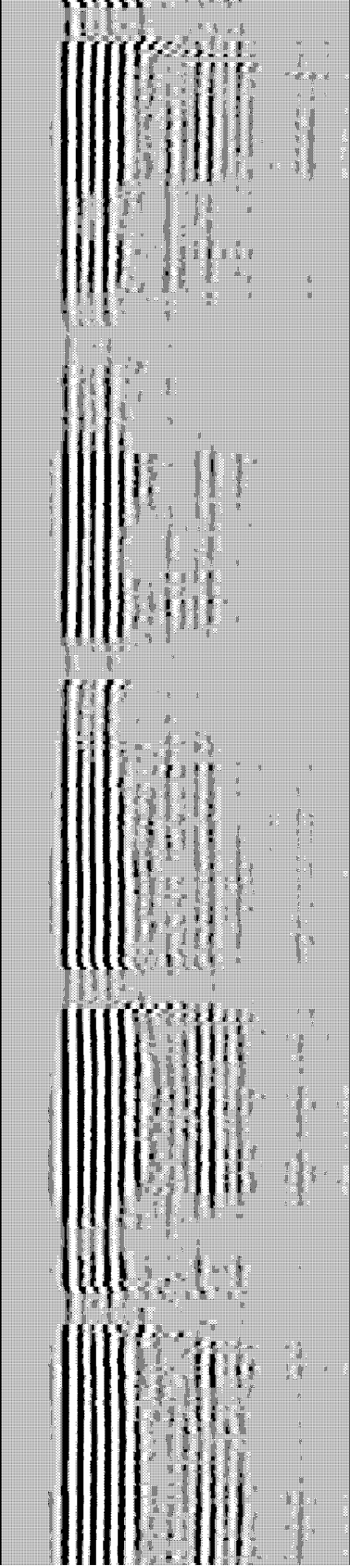
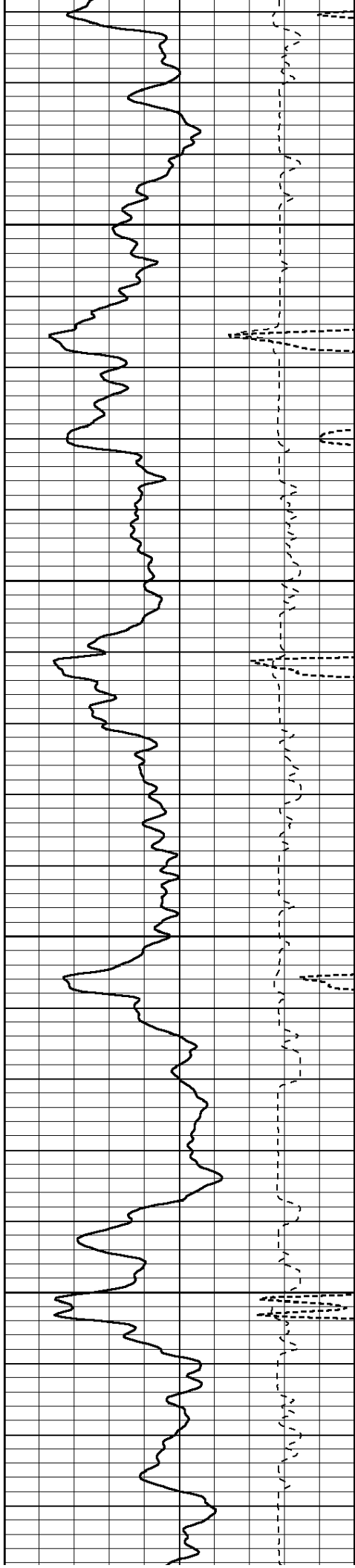
3500

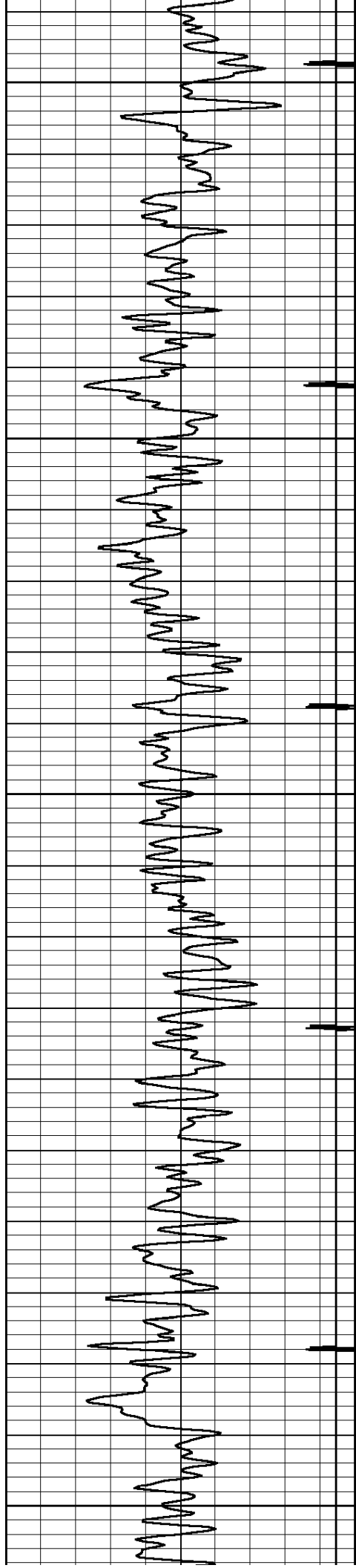




3600

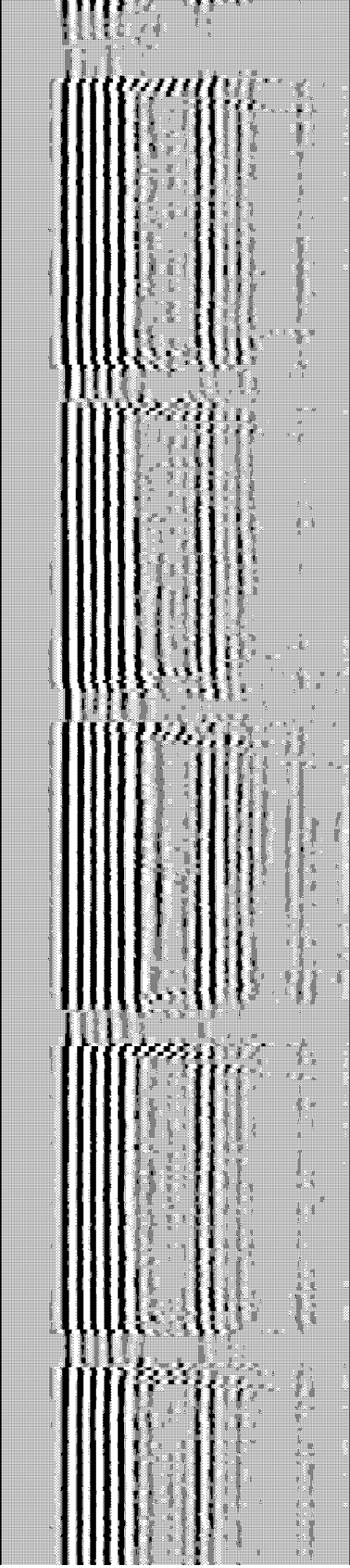
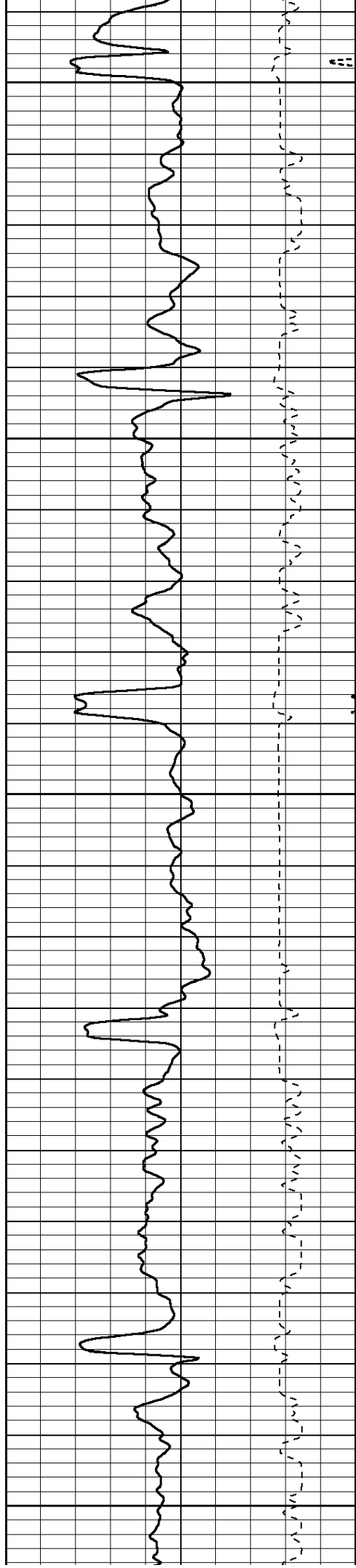
3700

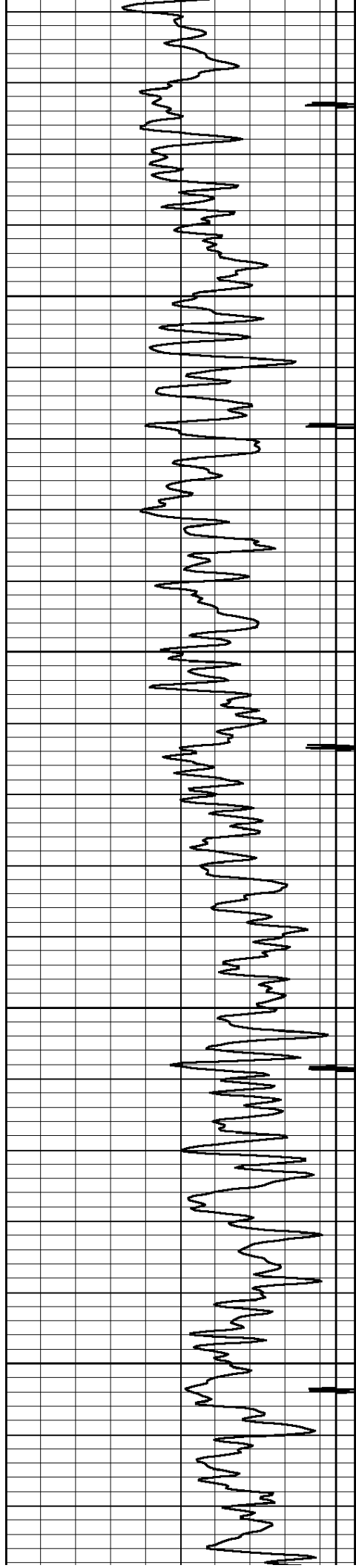




3800

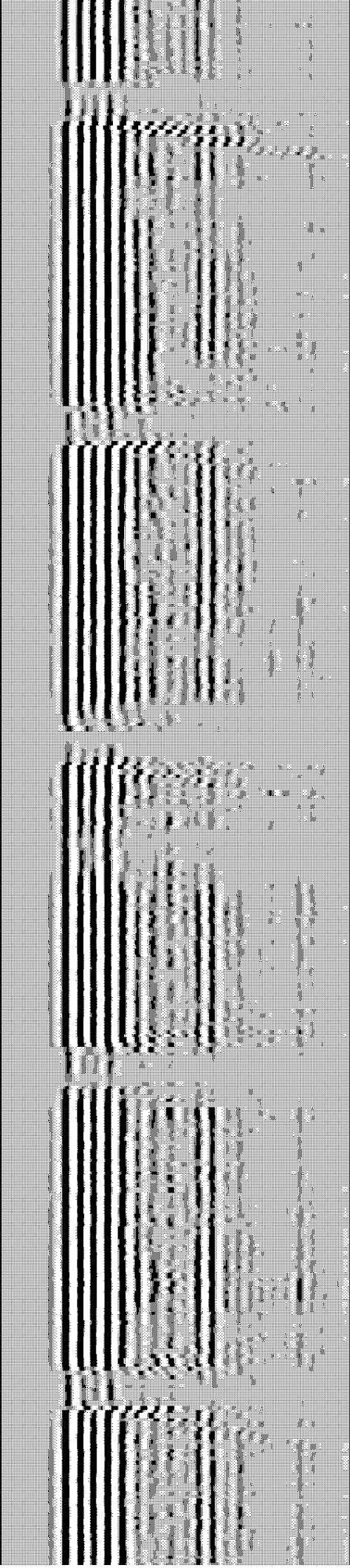
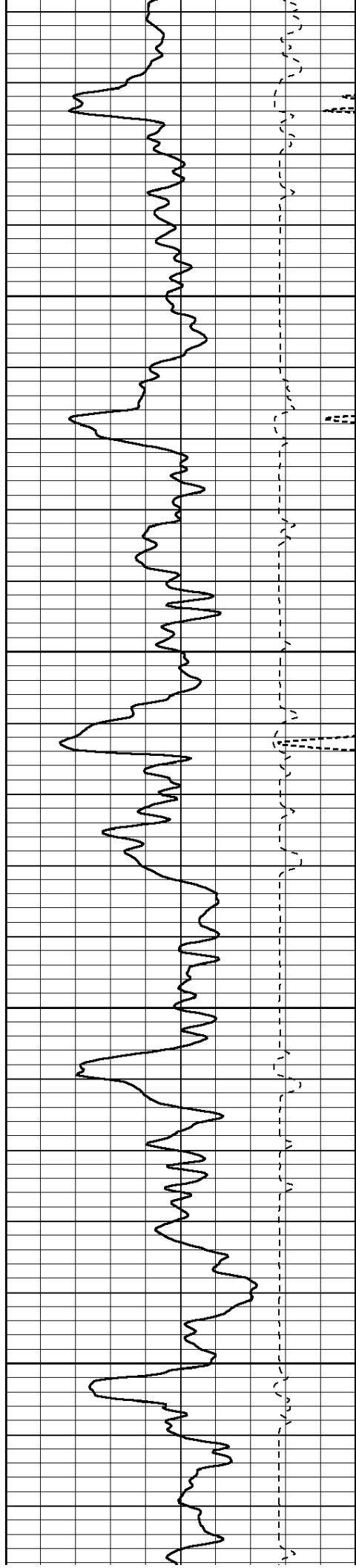
3900

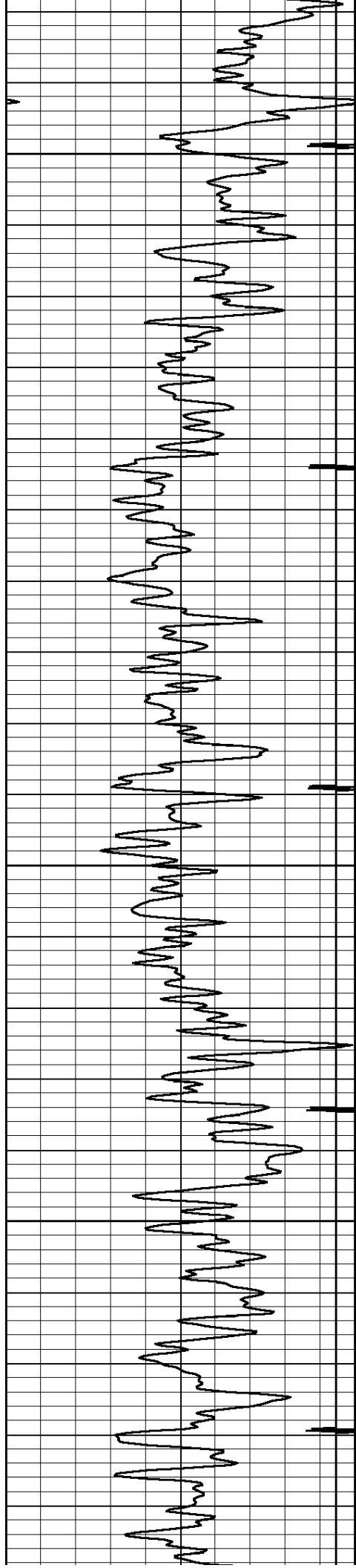




4000

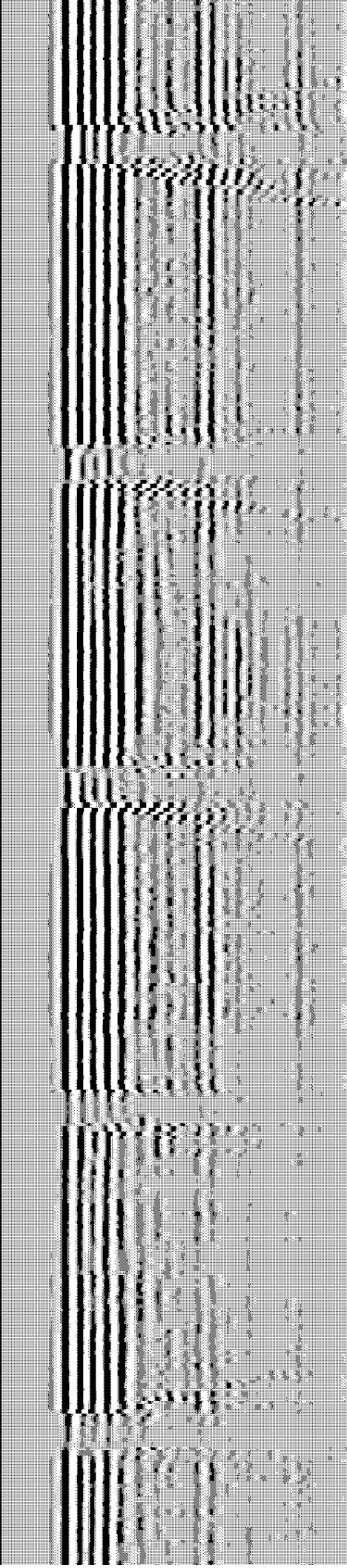
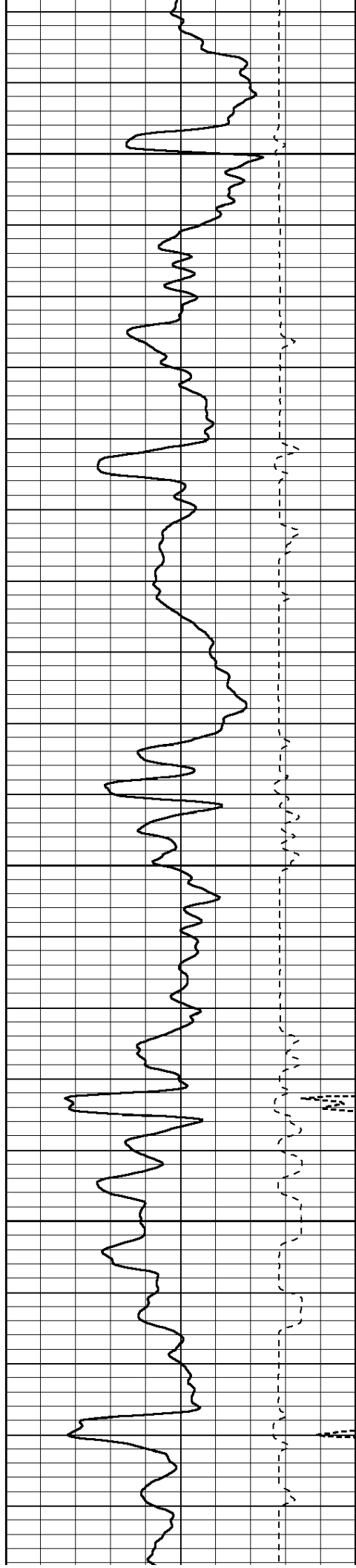
4100



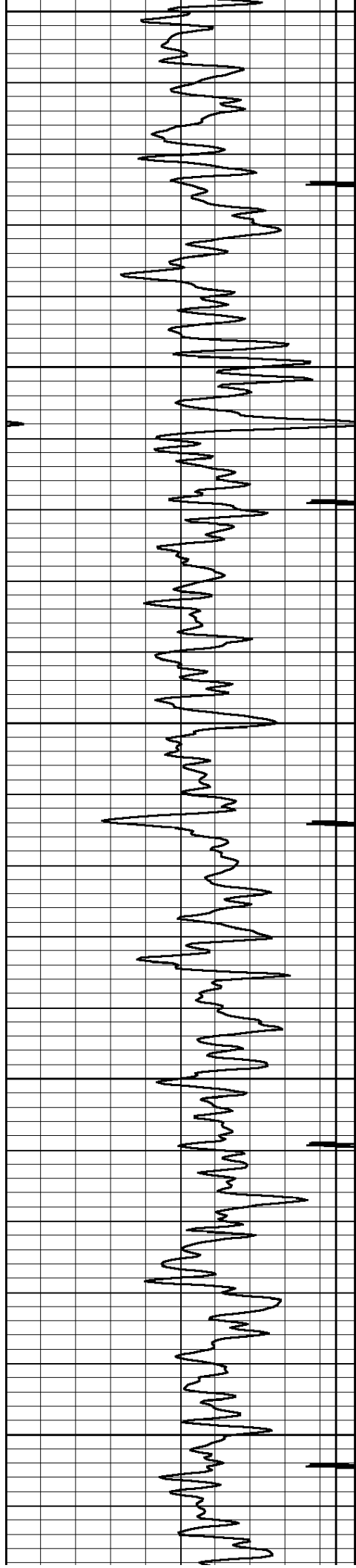


4200

4300



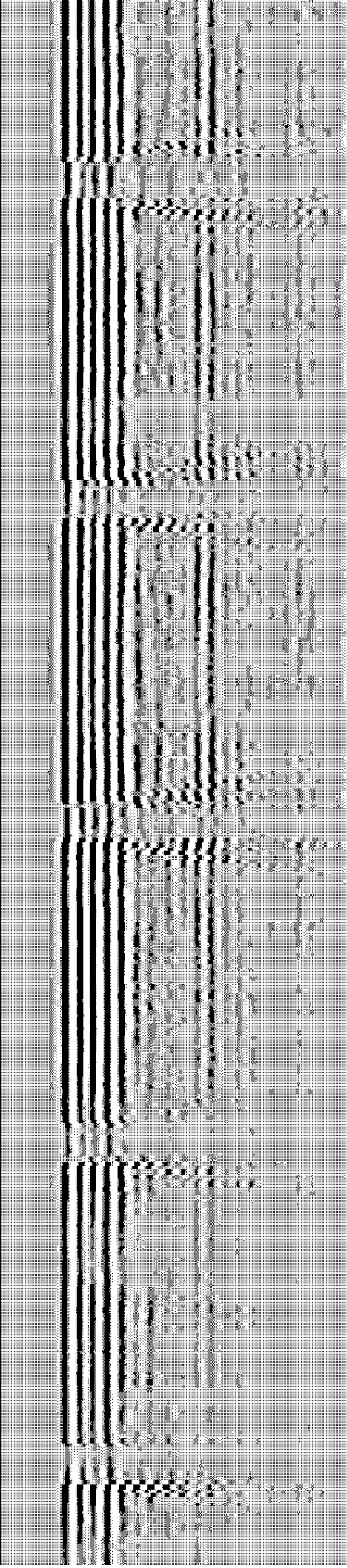
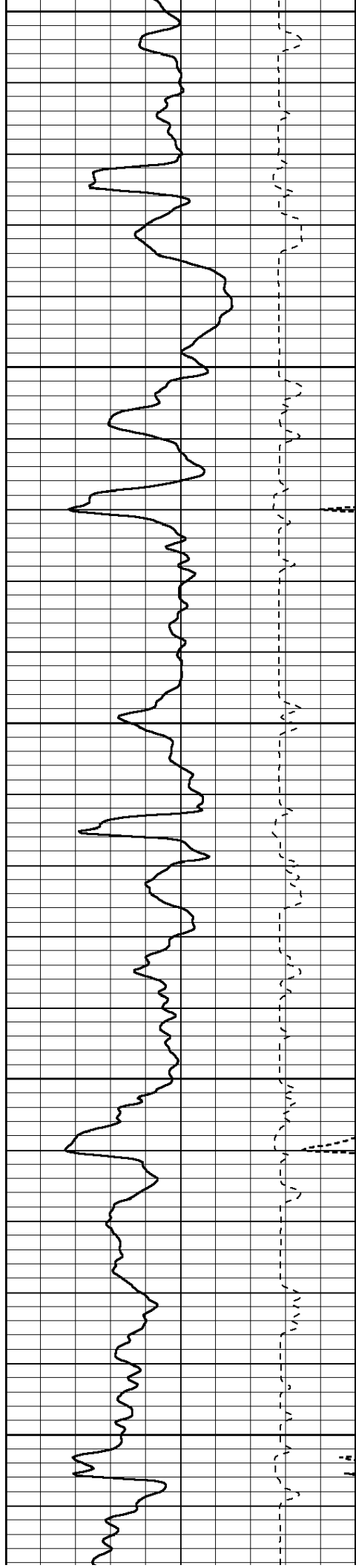


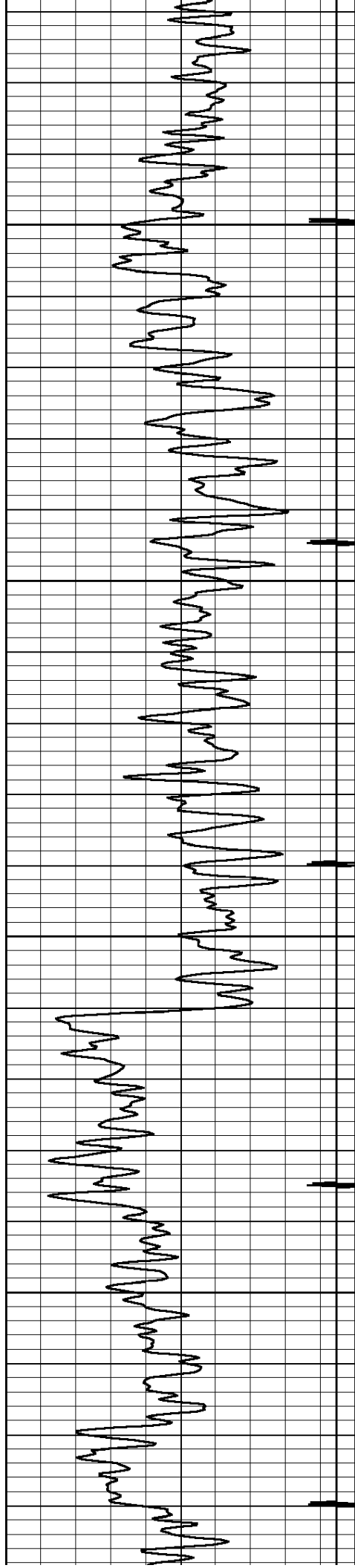


4400

4500

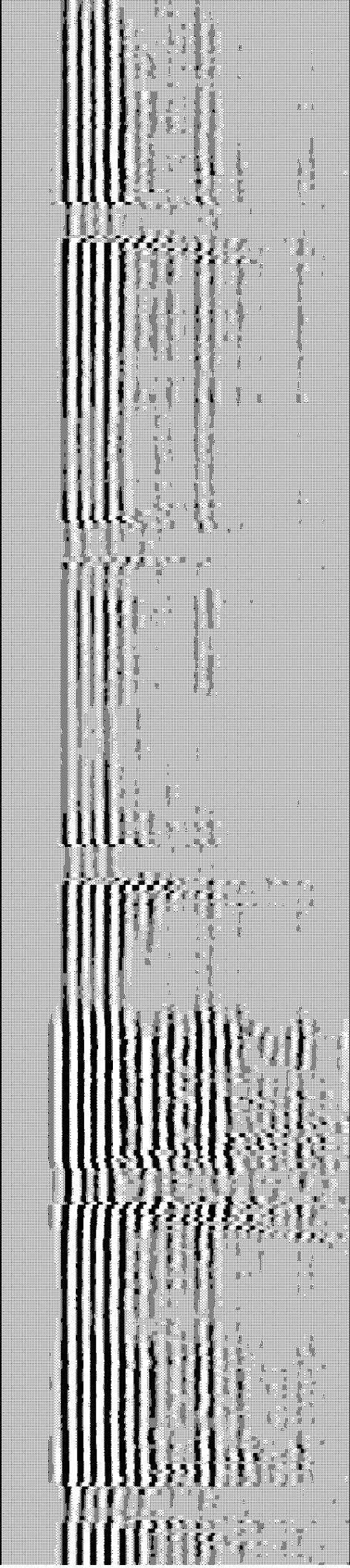
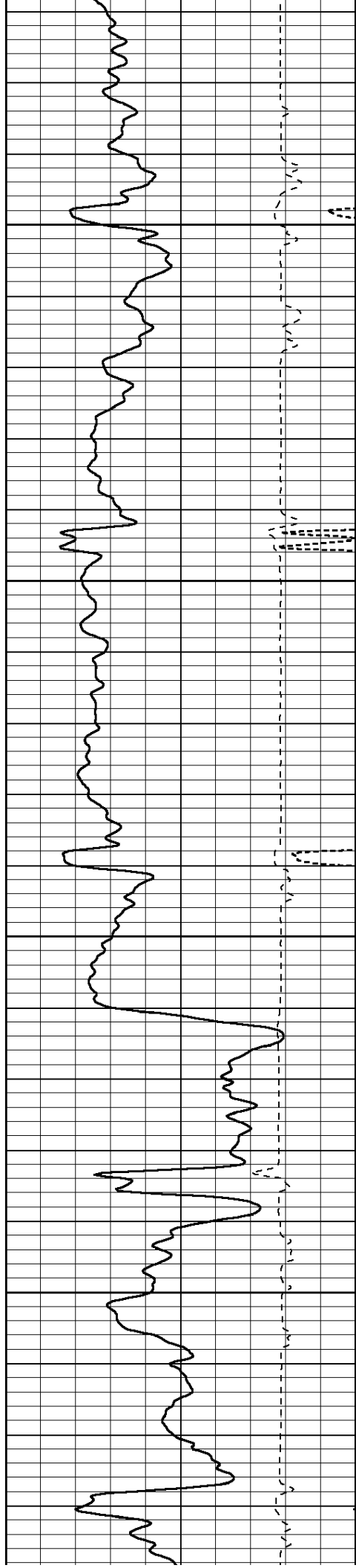
4600



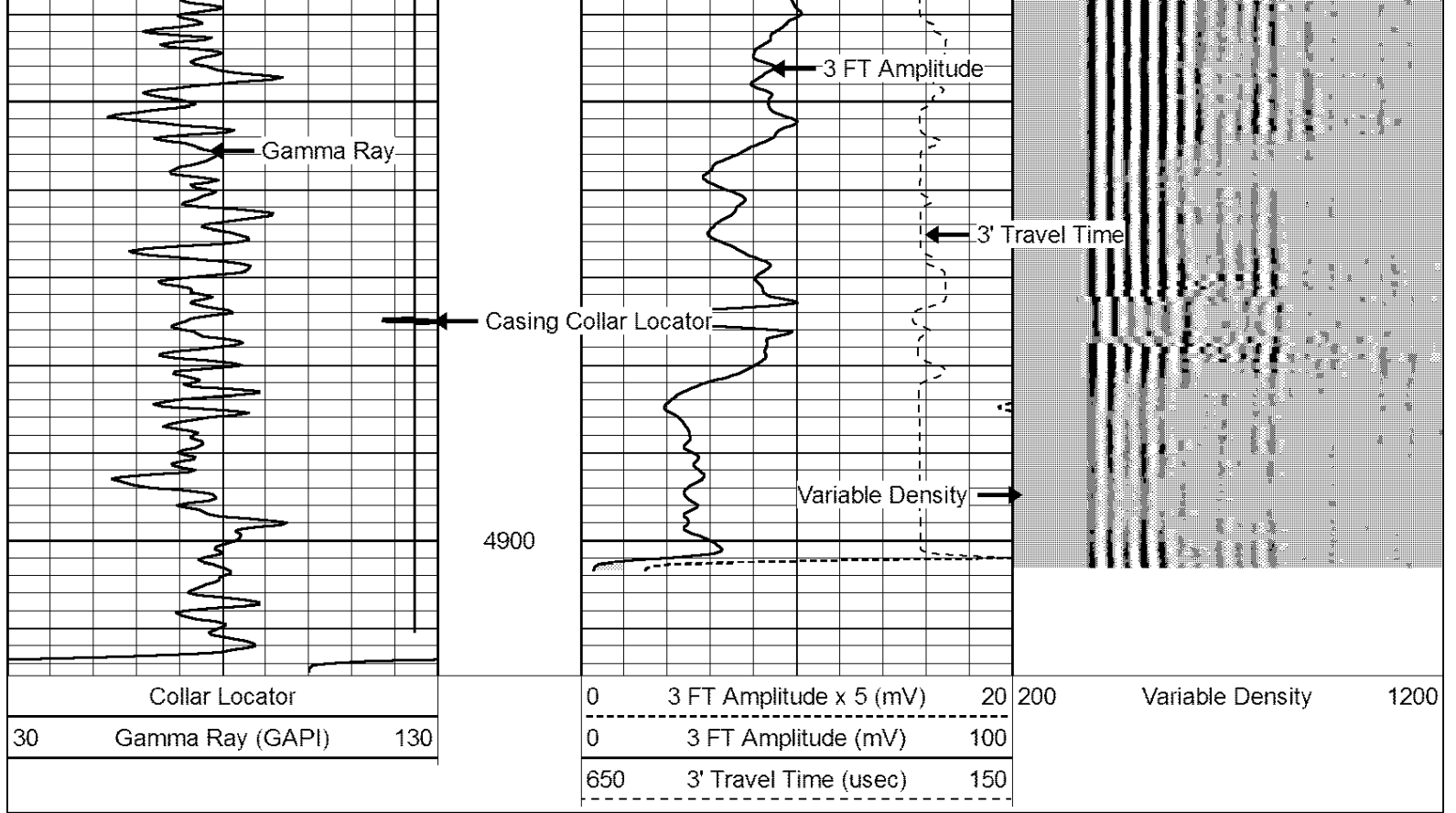


4700

4800





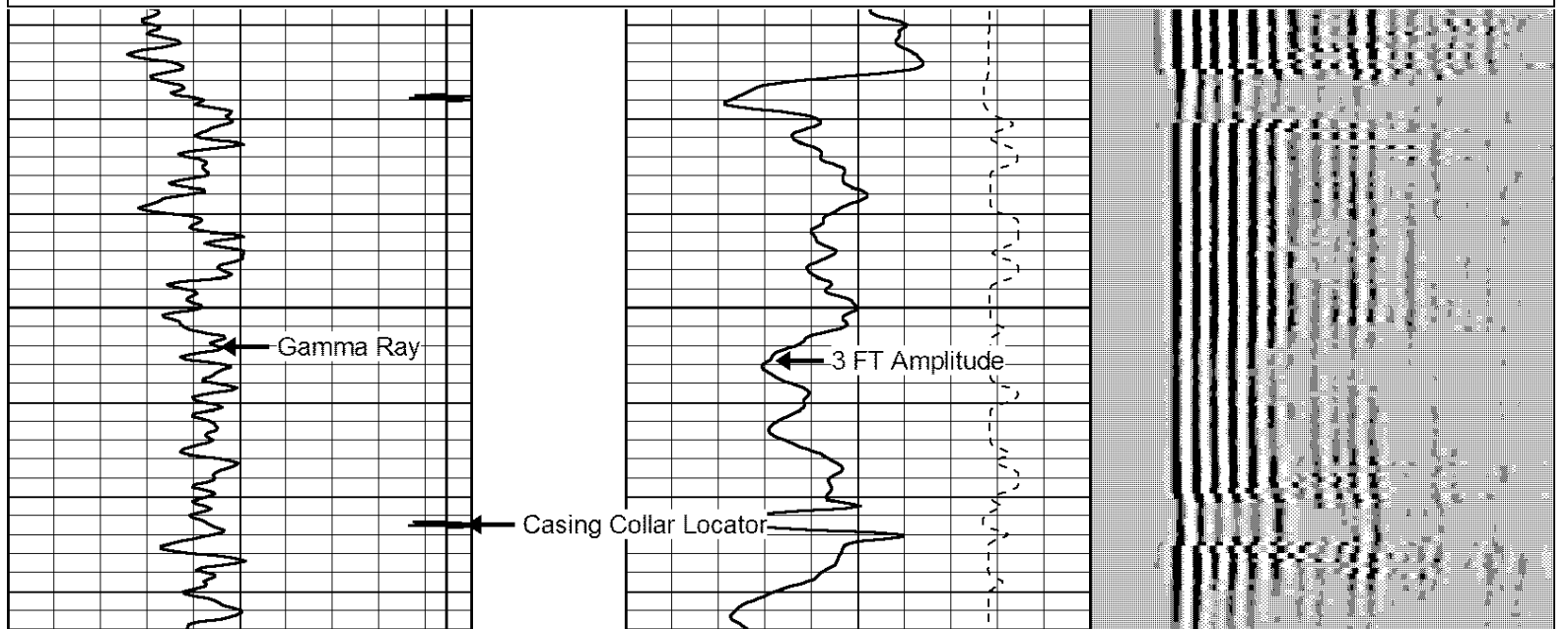


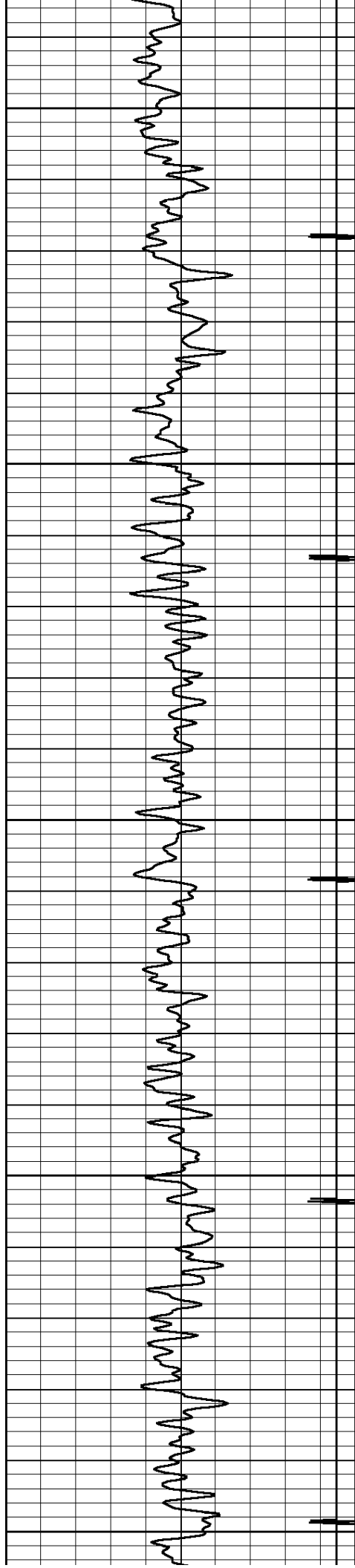
## MAIN PASS - 2500 PSI @ SURFACE

### LOG SPLIT FOR CORRELATION

Database File: sunmark 19-28-13\_cbl.db  
 Dataset Pathname: pass3  
 Presentation Format: p\_cbl  
 Dataset Creation: Mon Mar 26 19:50:27 2012 by Log SCH 120126  
 Charted by: Depth in Feet scaled 1:240

Collar Locator	0	3 FT Amplitude x 5 (mV)	20	200	Variable Density	1200
Gamma Ray (GAPI)	0	3 FT Amplitude (mV)	100			
		3' Travel Time (usec)	150			

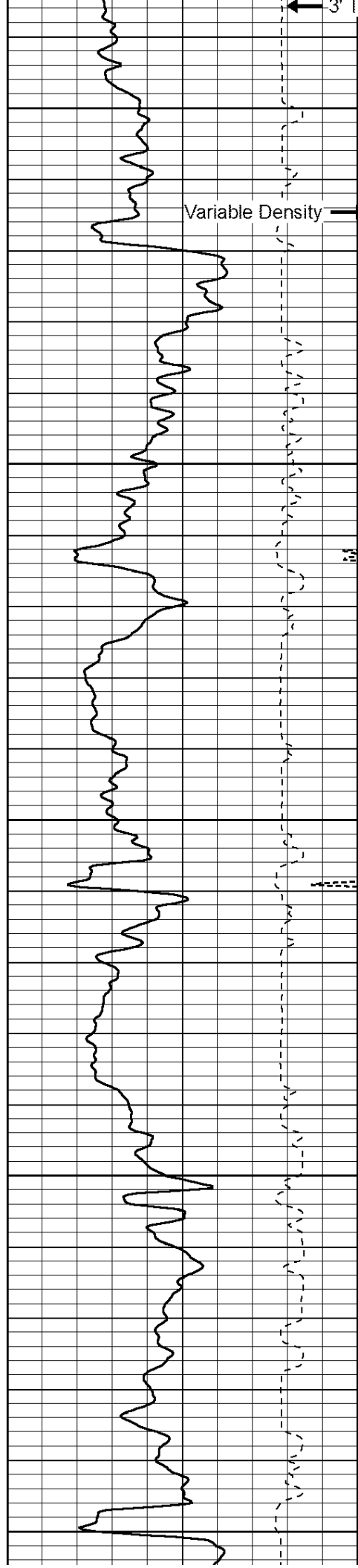




4900

5000

5100

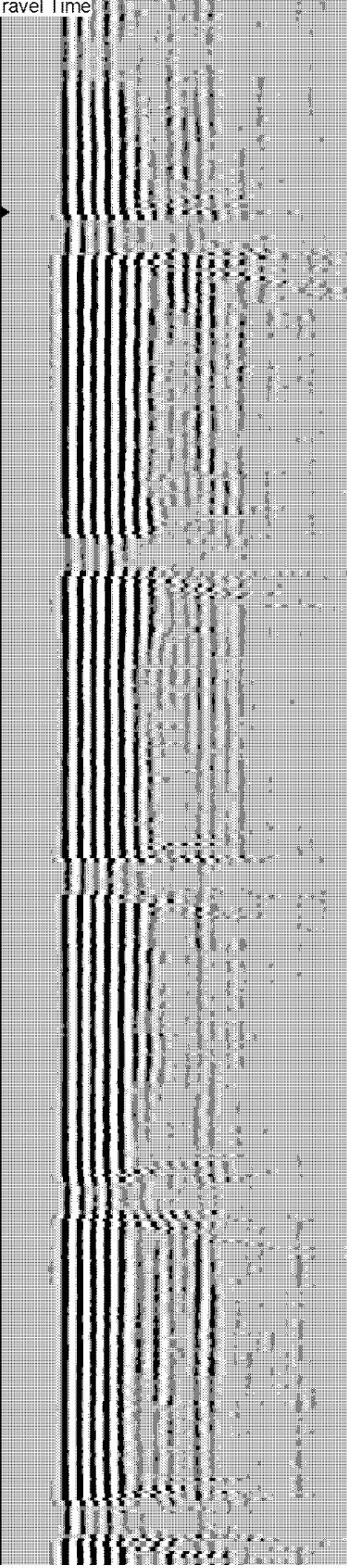


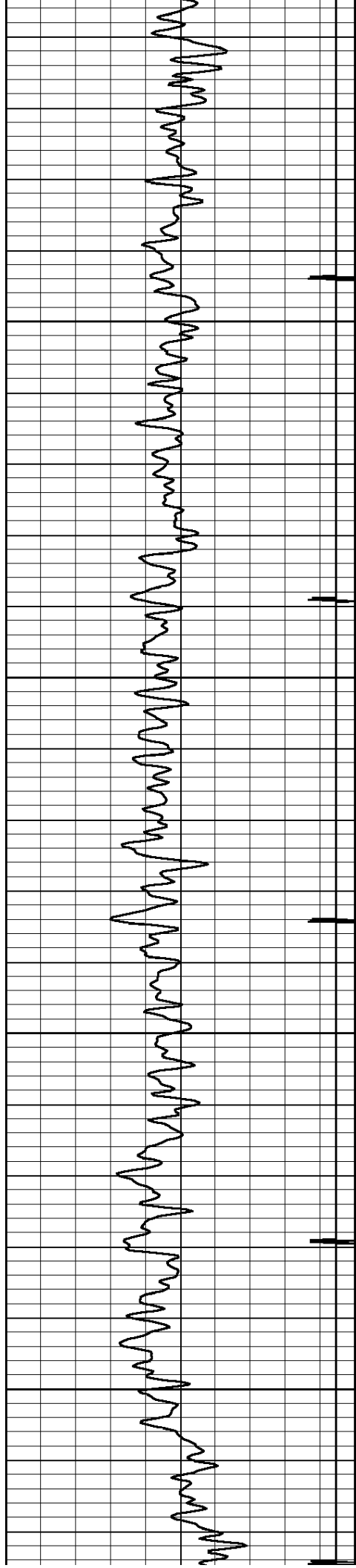
3' travel time

Variable Density

5000

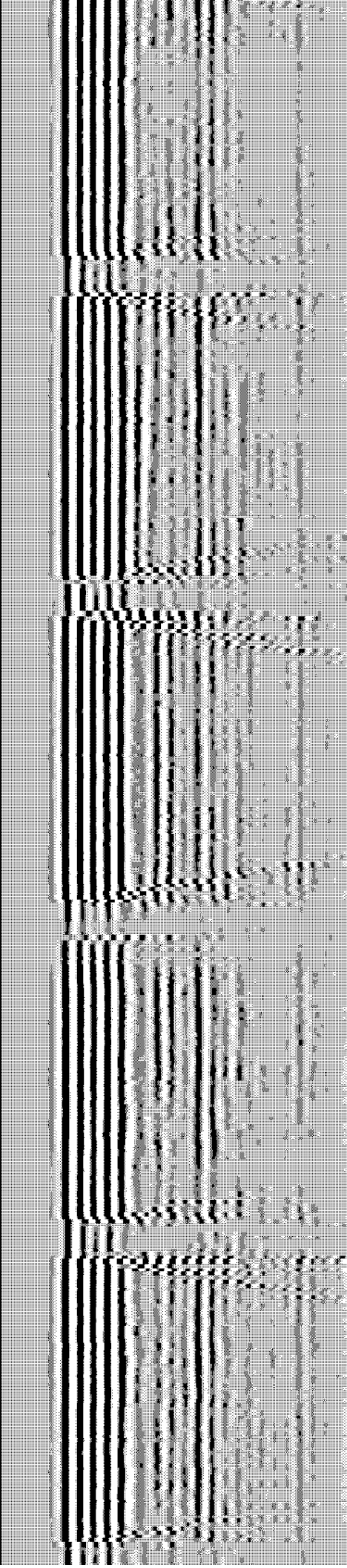
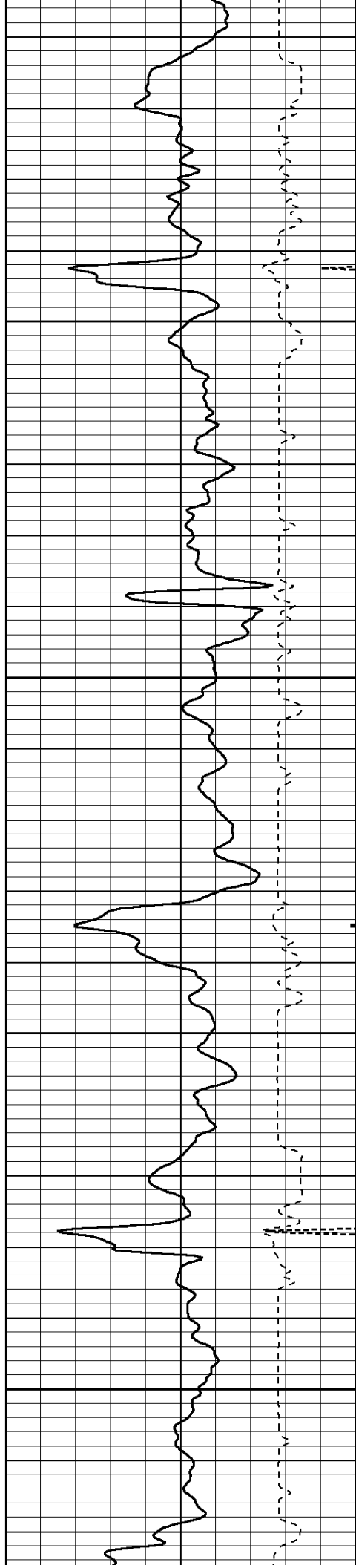
5100

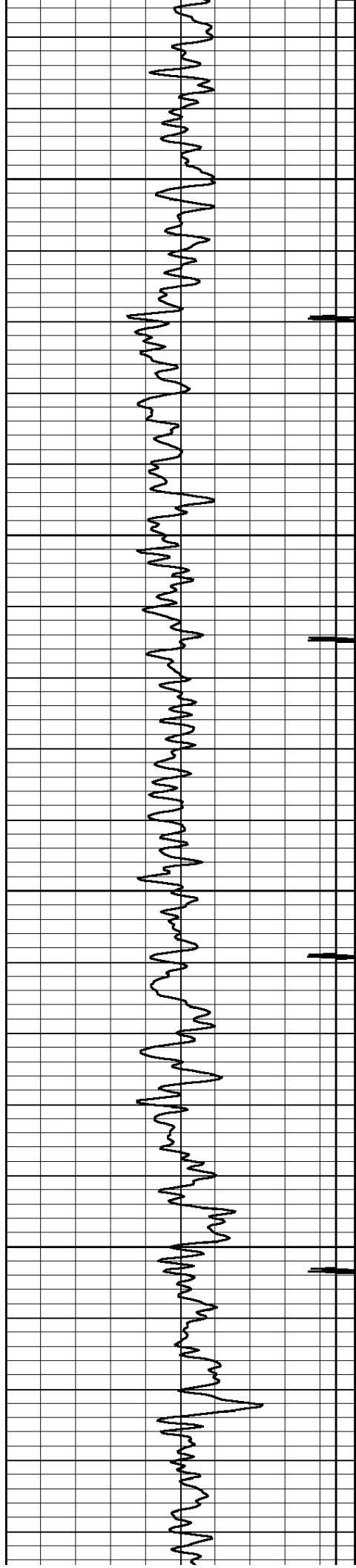




5200

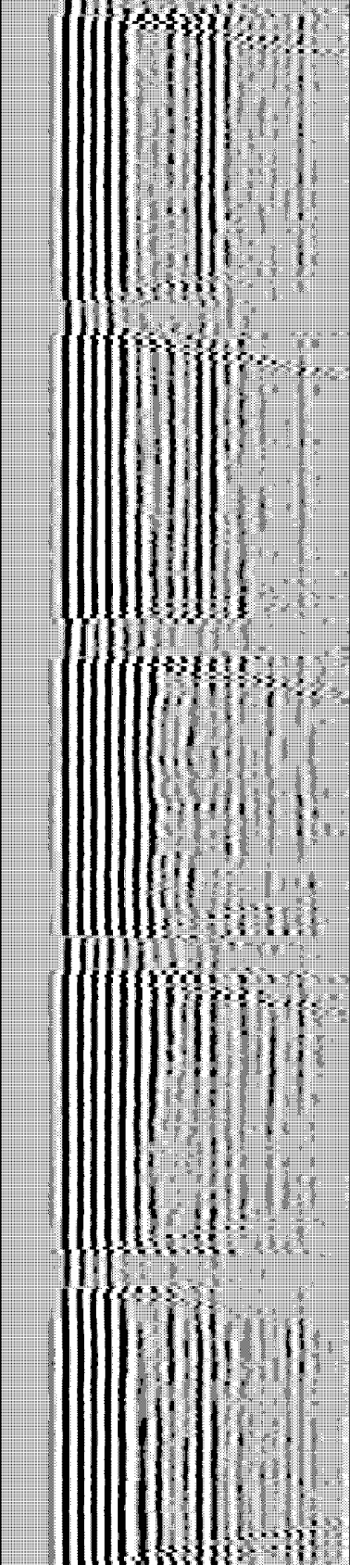
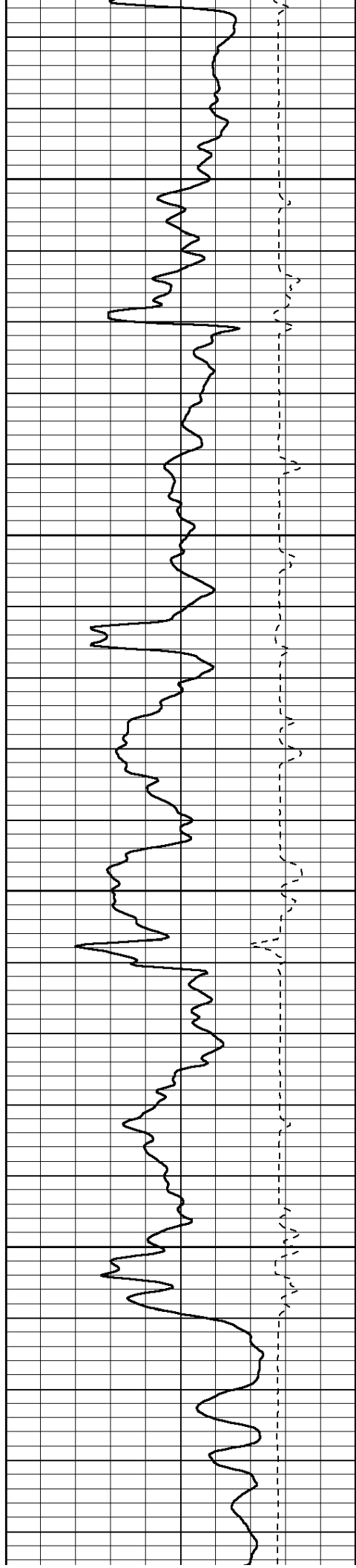
5300

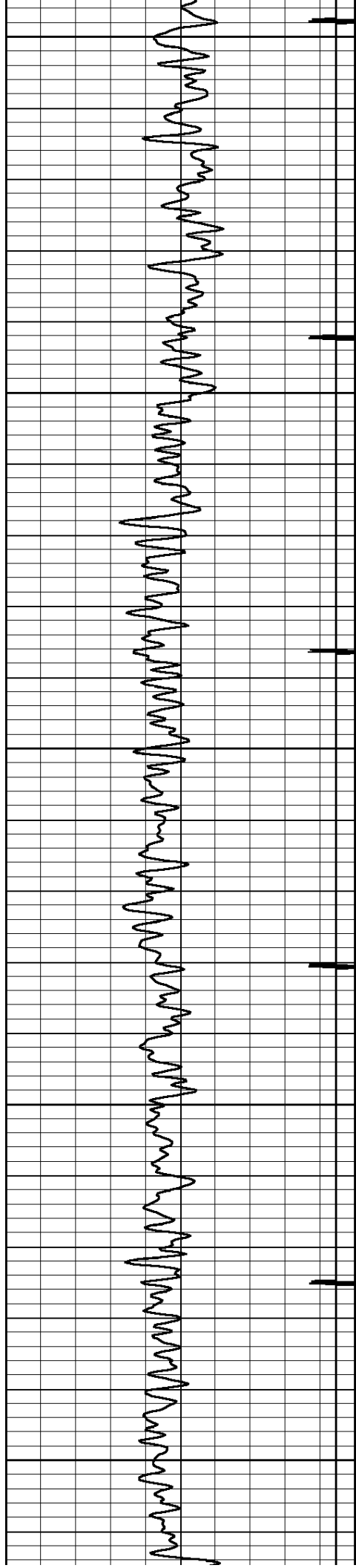




5400

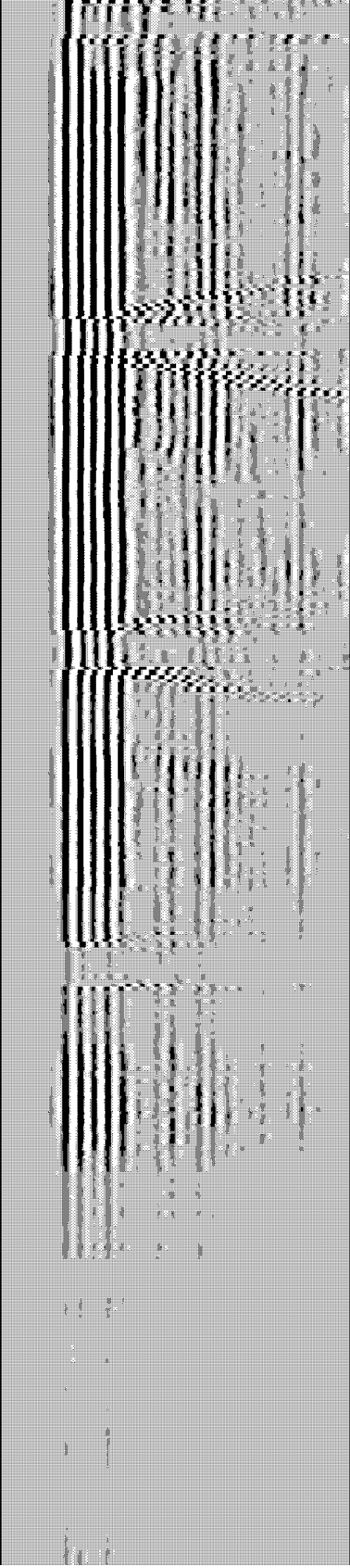
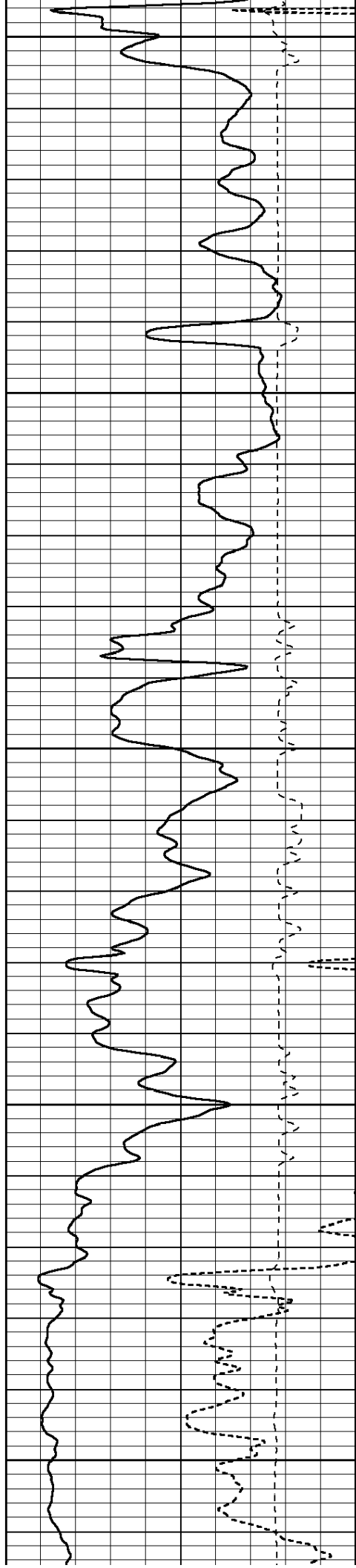
5500



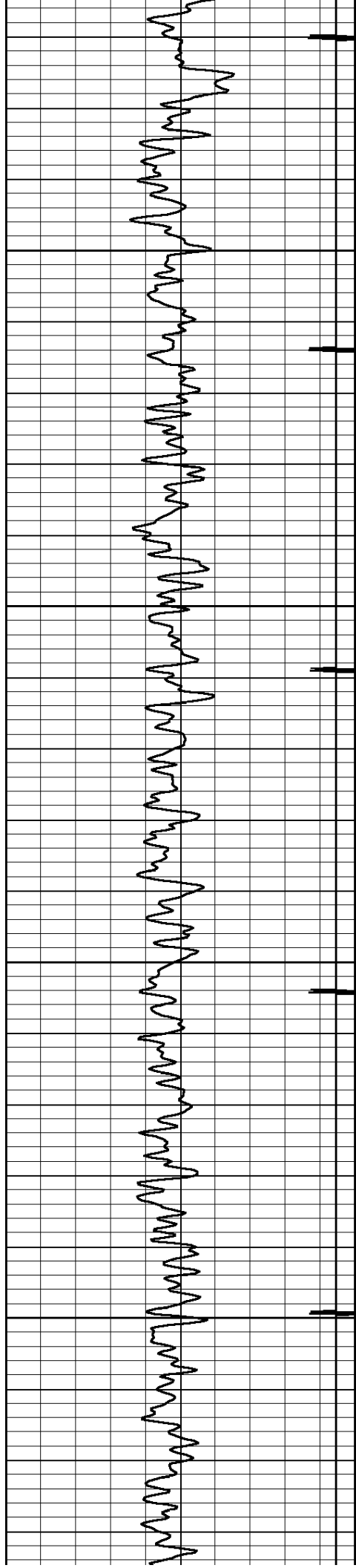


5600

5700

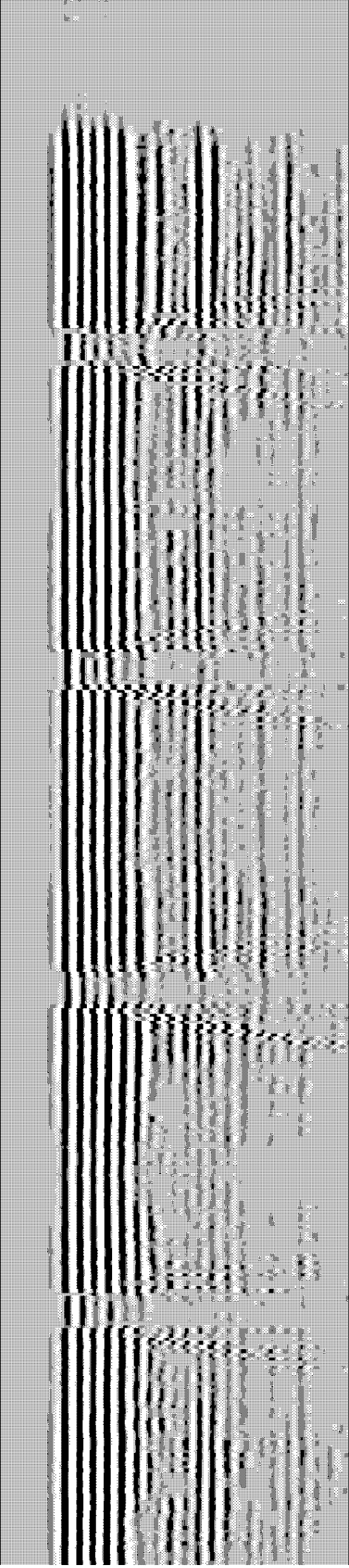
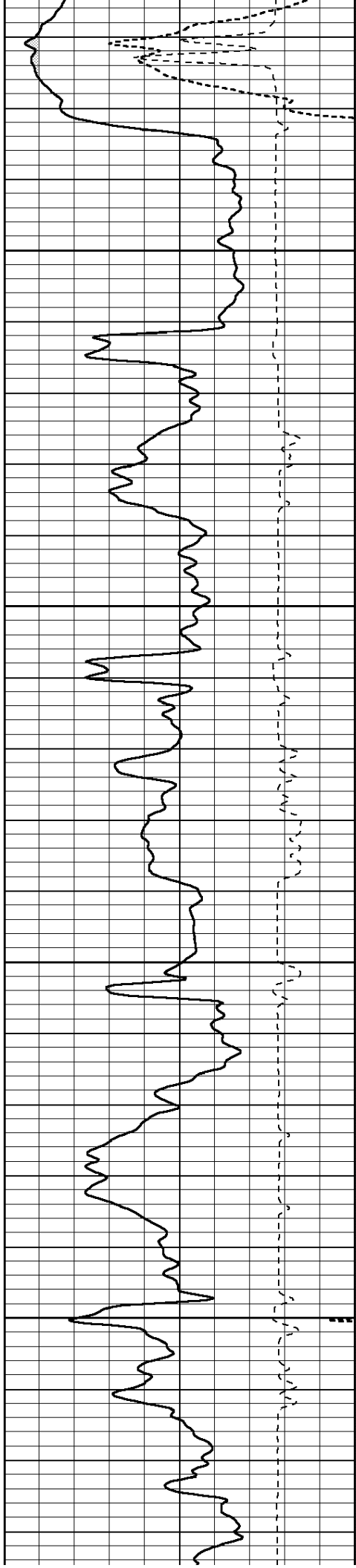


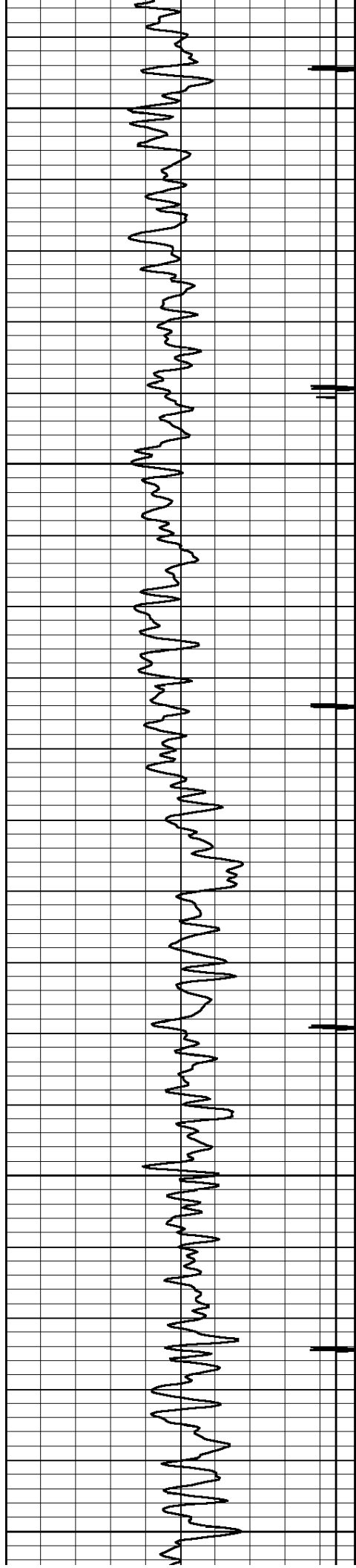




5800

5900

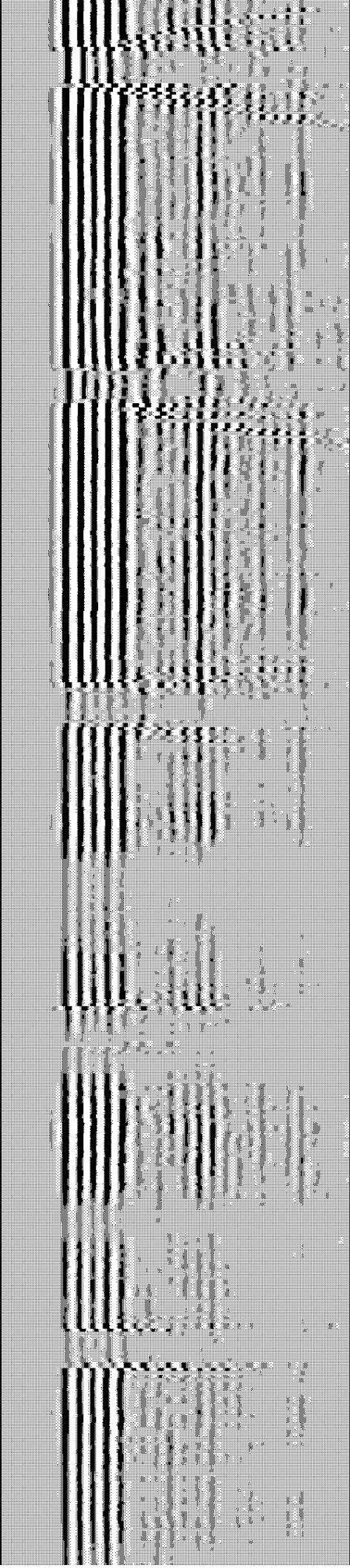
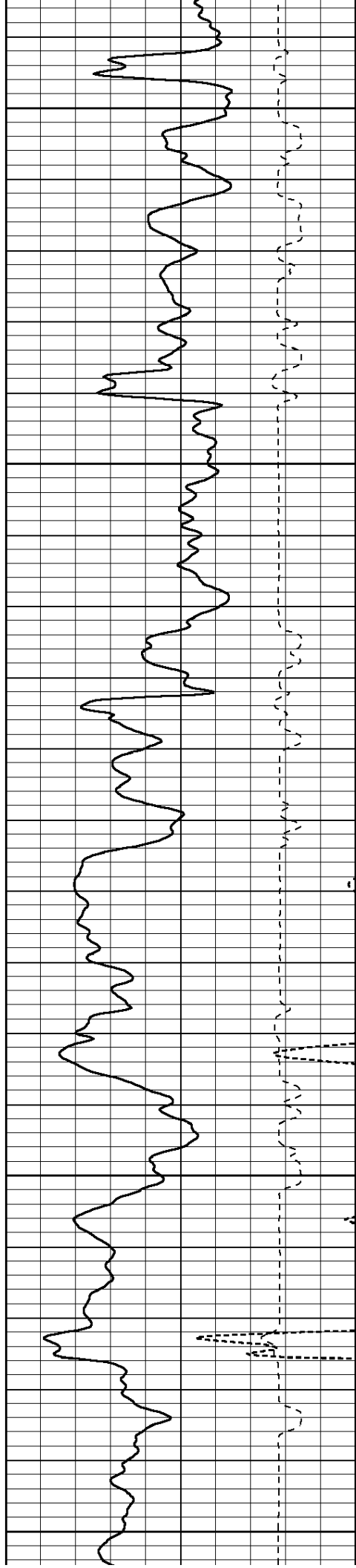




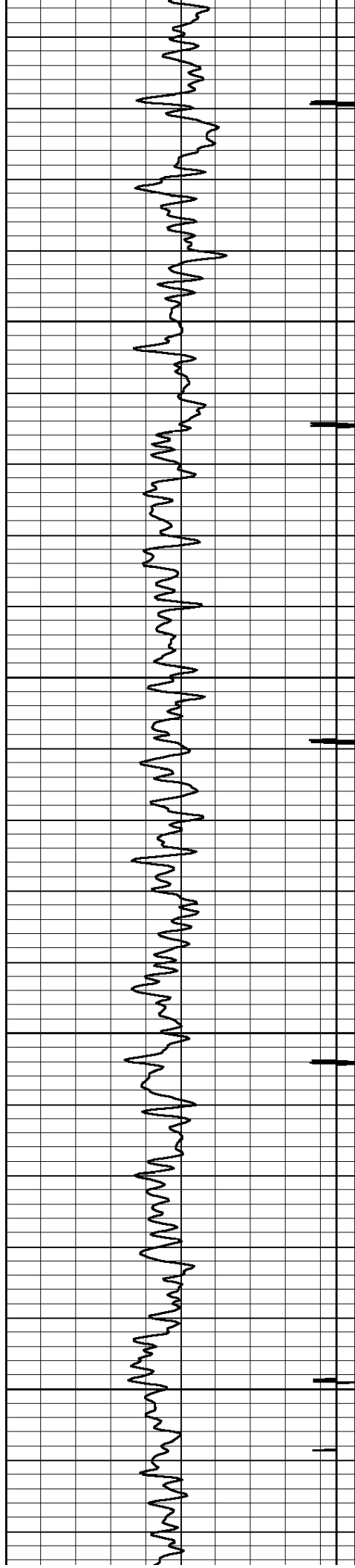
6000

6100

6200

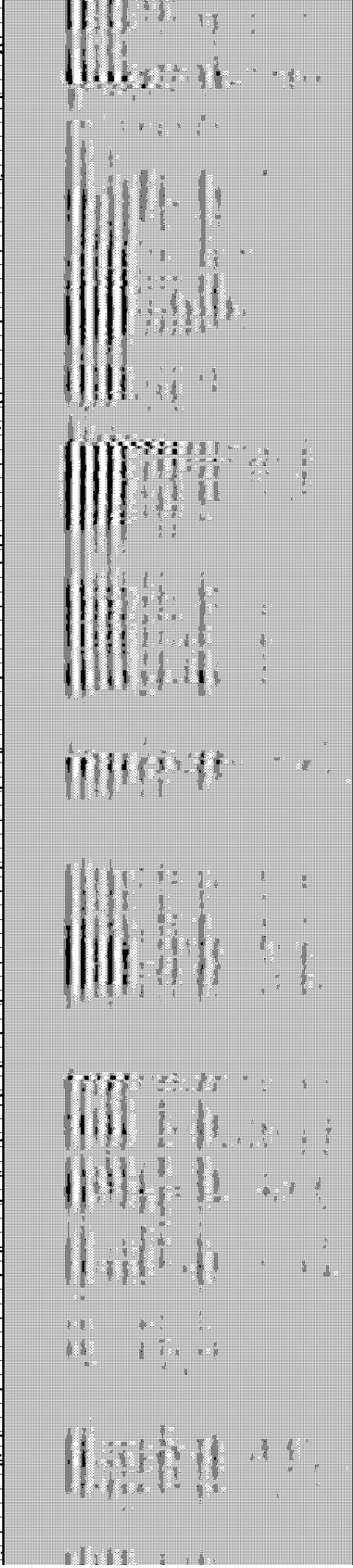
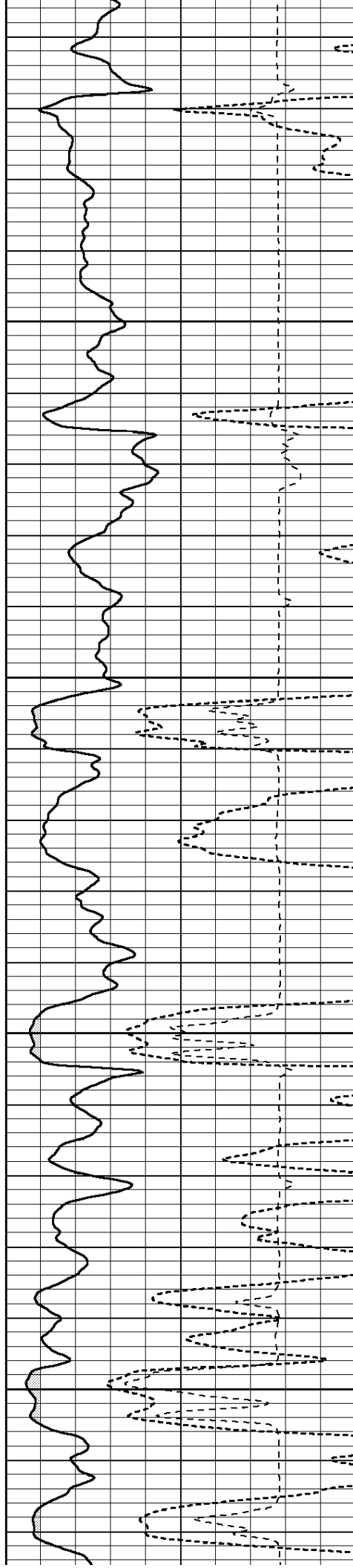


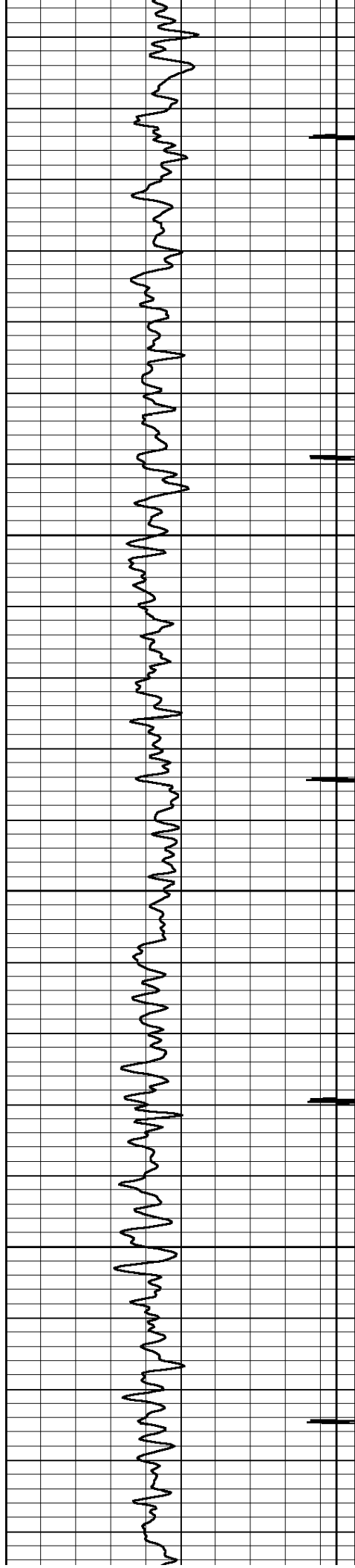




6300

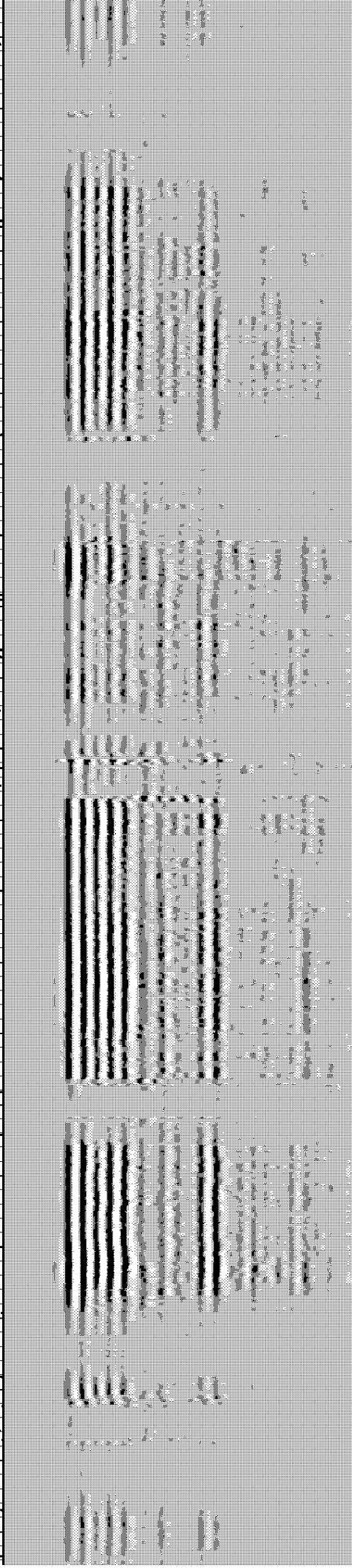
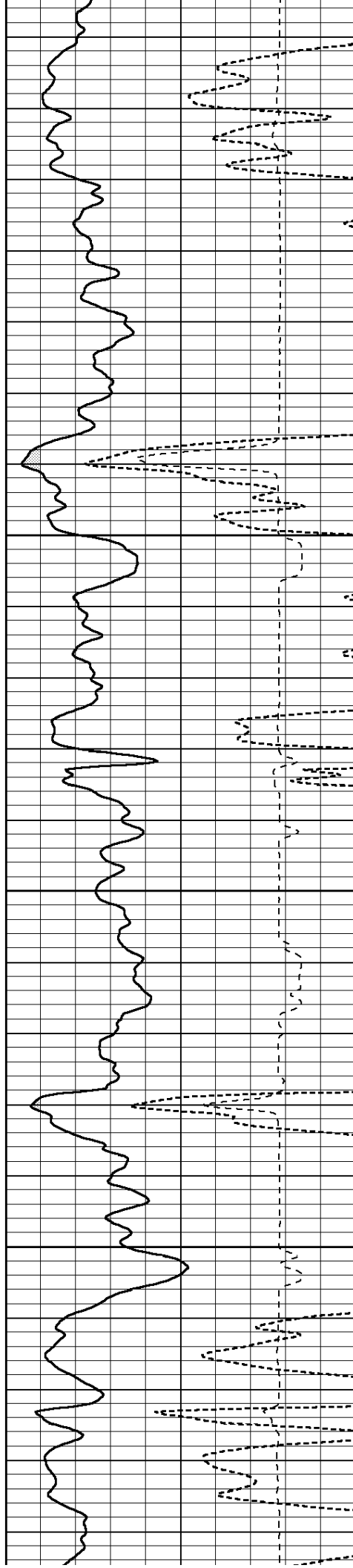
6400

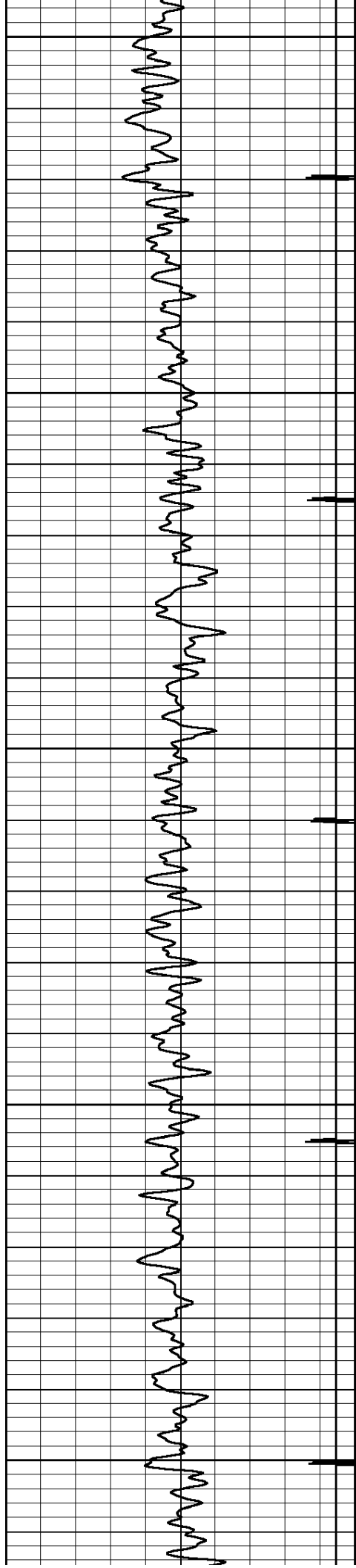




6500

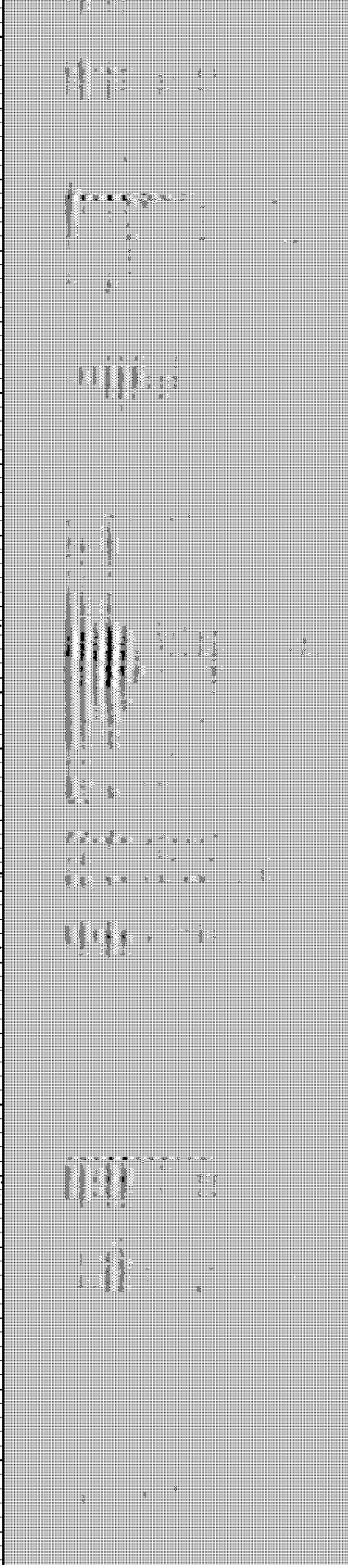
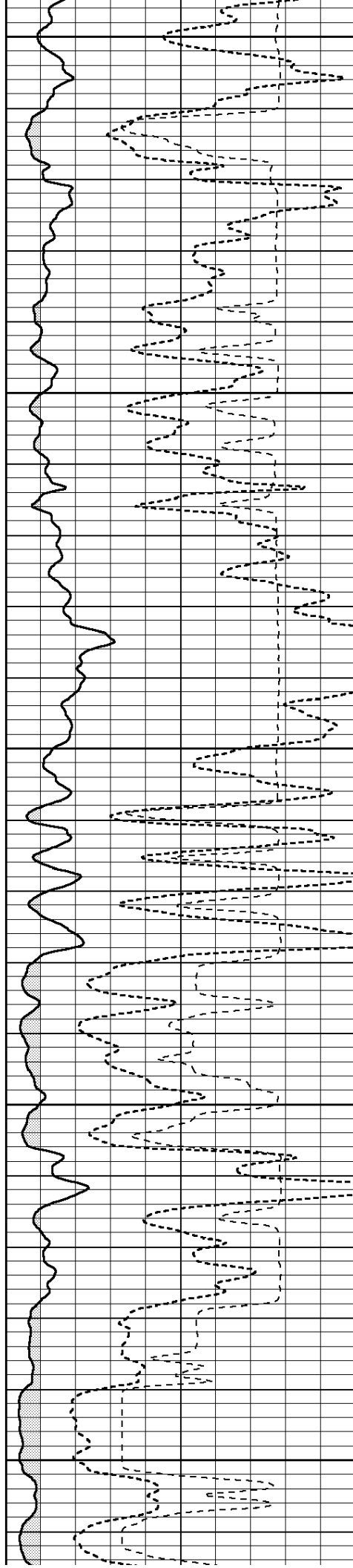
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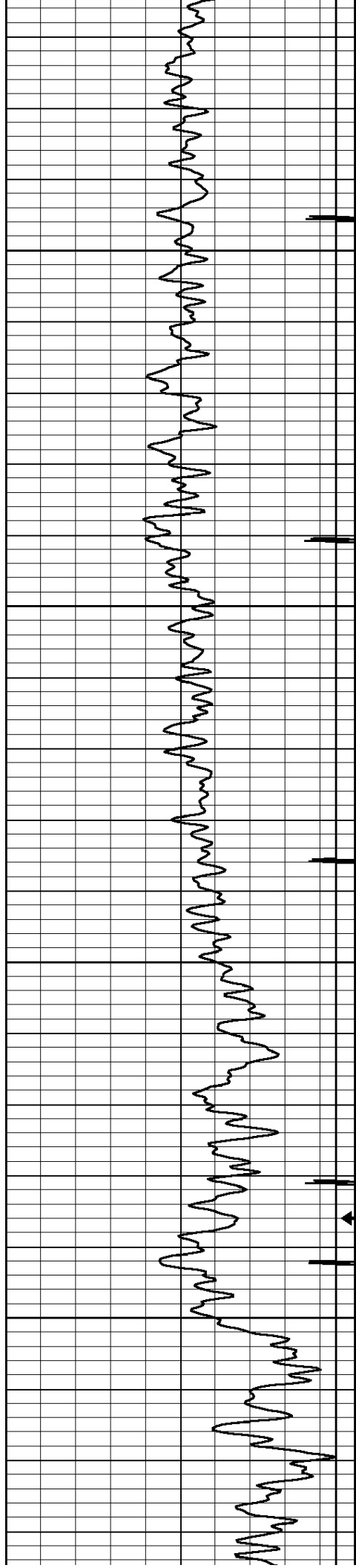




6700

6800

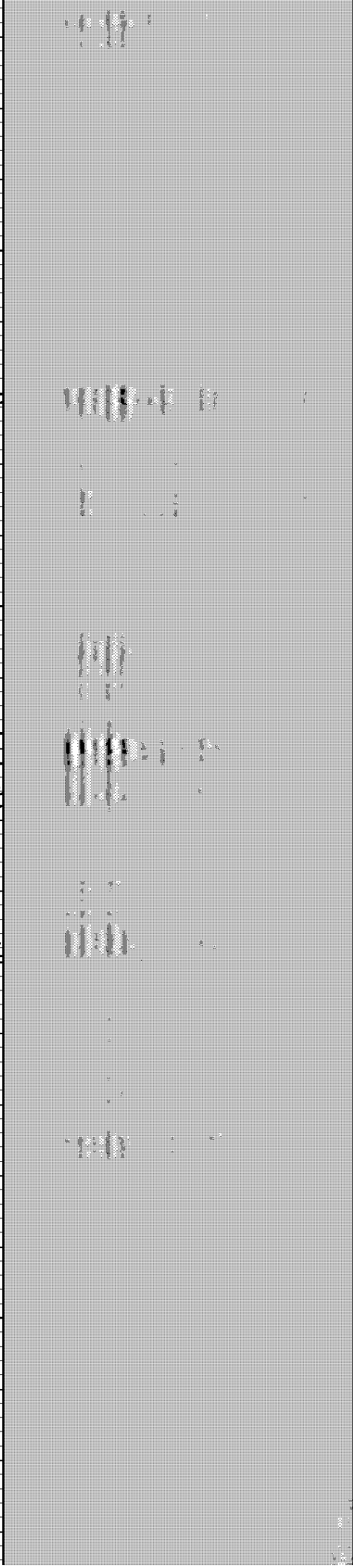
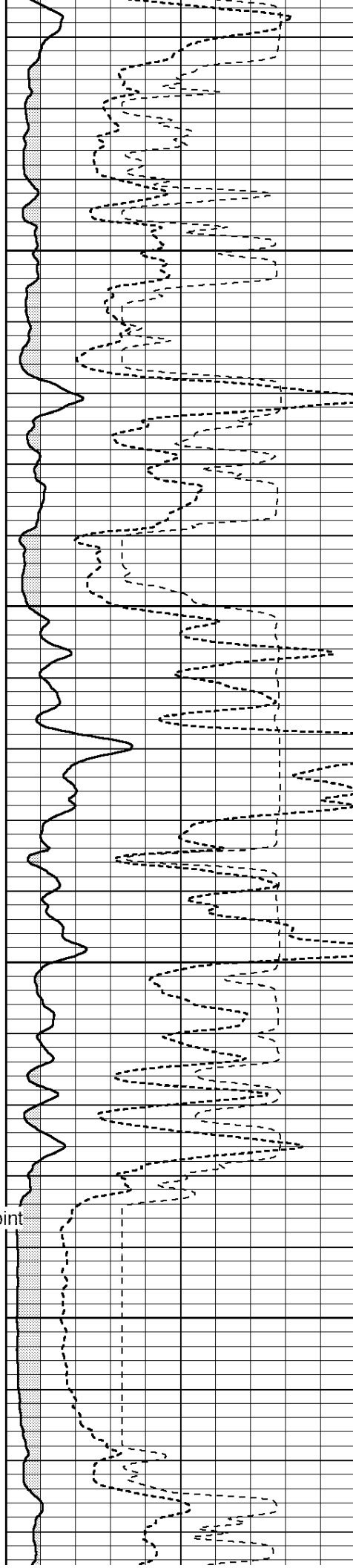


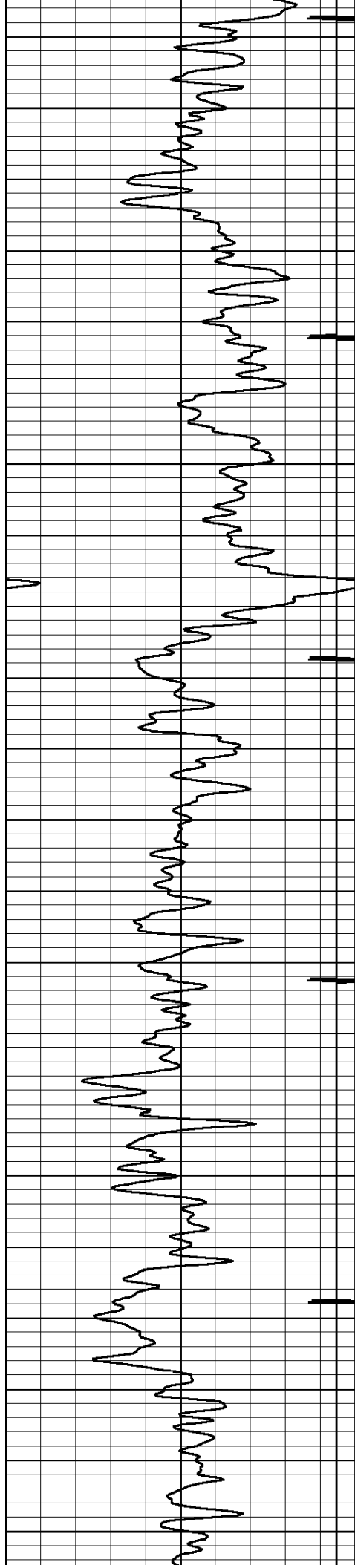


6900

7000

Marker Joint

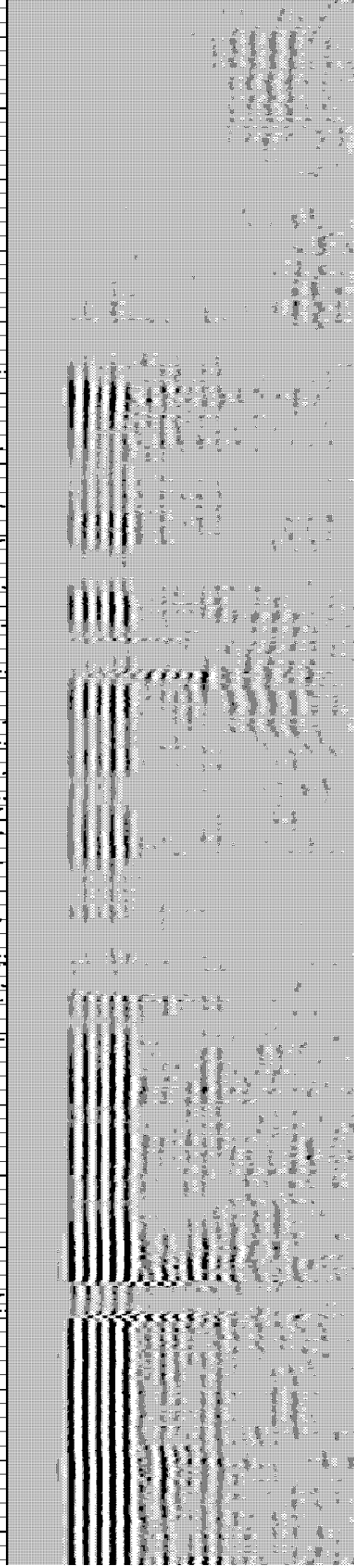
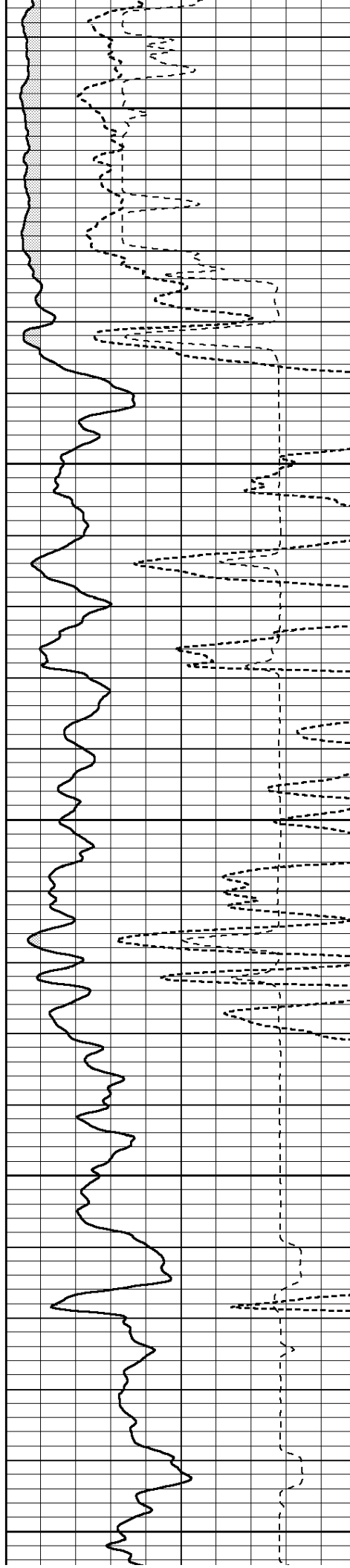


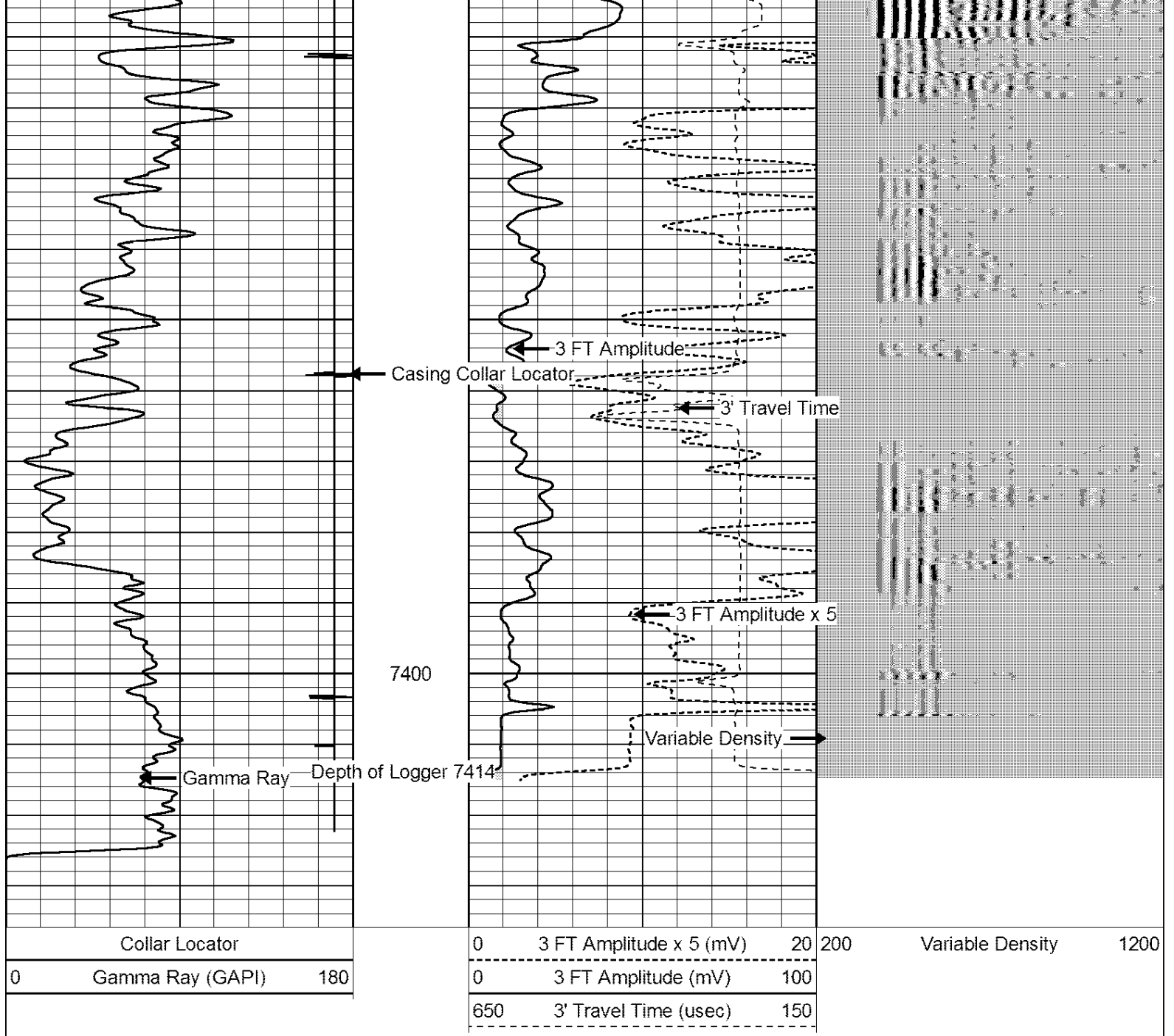


7100

7200

7300





### Calibration Report

Database File: sunmark 19-28-13\_cbl.db  
 Dataset Pathname: pass4  
 Dataset Creation: Mon Mar 26 20:21:21 2012 by Log SCH 120126

### Gamma Ray Calibration Report

Serial Number: 101SGR  
 Tool Model: TEKCO  
 Performed: Wed Feb 01 12:05:29 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps

Sensitivity: 0.5000 GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: 0001

Tool Model:

TEKCO275

Calibration Casing Diameter:

4.500

in

Calibration Depth:

2264.165

ft

Master Calibration, performed Mon Mar 26 19:26:38 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.334	3.000	81.196	33.506	3.000
CAL	0.000	2.499				
5'	0.000	2.499	3.000	81.196	31.294	3.000
SUM						
S1	0.000	2.499	0.000	72.000	28.814	0.000
S2	0.000	2.499	0.000	72.000	28.814	0.000
S3	0.000	2.499	0.000	72.000	28.814	0.000
S4	0.000	2.499	0.000	72.000	28.814	0.000
S5	0.000	2.499	0.000	72.000	28.814	0.000
S6	0.000	2.499	0.000	72.000	28.814	0.000
S7	0.000	2.499	0.000	72.000	28.814	0.000
S8	0.000	2.499	0.000	72.000	28.814	0.000

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	2.499	1.000	0.000

Air Zero Calibration, performed Mon Mar 26 19:13:26 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	



Company

K. P. KAUFFMAN COMPANY

Well

SUNMARKE 19-28-13

Field

WATTENBERG

County

WELD

State

COLORADO

Country

US