

**Patterson**

**COMPENSATED  
DENSITY/NEUTRON  
LOG**

Company XTO Energy, Inc.		Company XTO Energy, Inc.	
Well Apache Canyon 05-04		Well Apache Canyon 05-04	
Field Purgatoire River		Field Purgatoire River	
County Las Animas		County Las Animas	
State CO		State CO	
Location: API # : 05 071 08817 00		Other Services	
SEC 5 TWP 34S RGE 67W		DIL	
Permanent Datum	Ground Level	Elevation	7838'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		
Elevation		K.B. -----	
		D.F. -----	
		G.L. 7838'	
Date	7-12-06		
Run Number	two		
Depth Driller	2420'		
Depth Logger	2420		
Bottom Logged Interval	2418		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 230'		
Casing Logger	225'		
Bit Size	7 7/8"		
Type Fluid in Hole	Water		
Density / Viscosity	///		
pH / Fluid Loss	///		
Source of Sample	///		
Rm @ Meas. Temp	///		
Rmf @ Meas. Temp	///		
Rmc @ Meas. Temp	///		
Source of Rmf / Rmc	///		
Rm @ BHT	///		
Time Circulation Stopped	11:30		
Time Logger on Bottom	5:10 p.m.		
Maximum Recorded Temperature	114 DEG F		
Equipment Number	T720		
Location	Trinidad		
Recorded By	Worley		
Witnessed By	Mr. Don Johnson		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

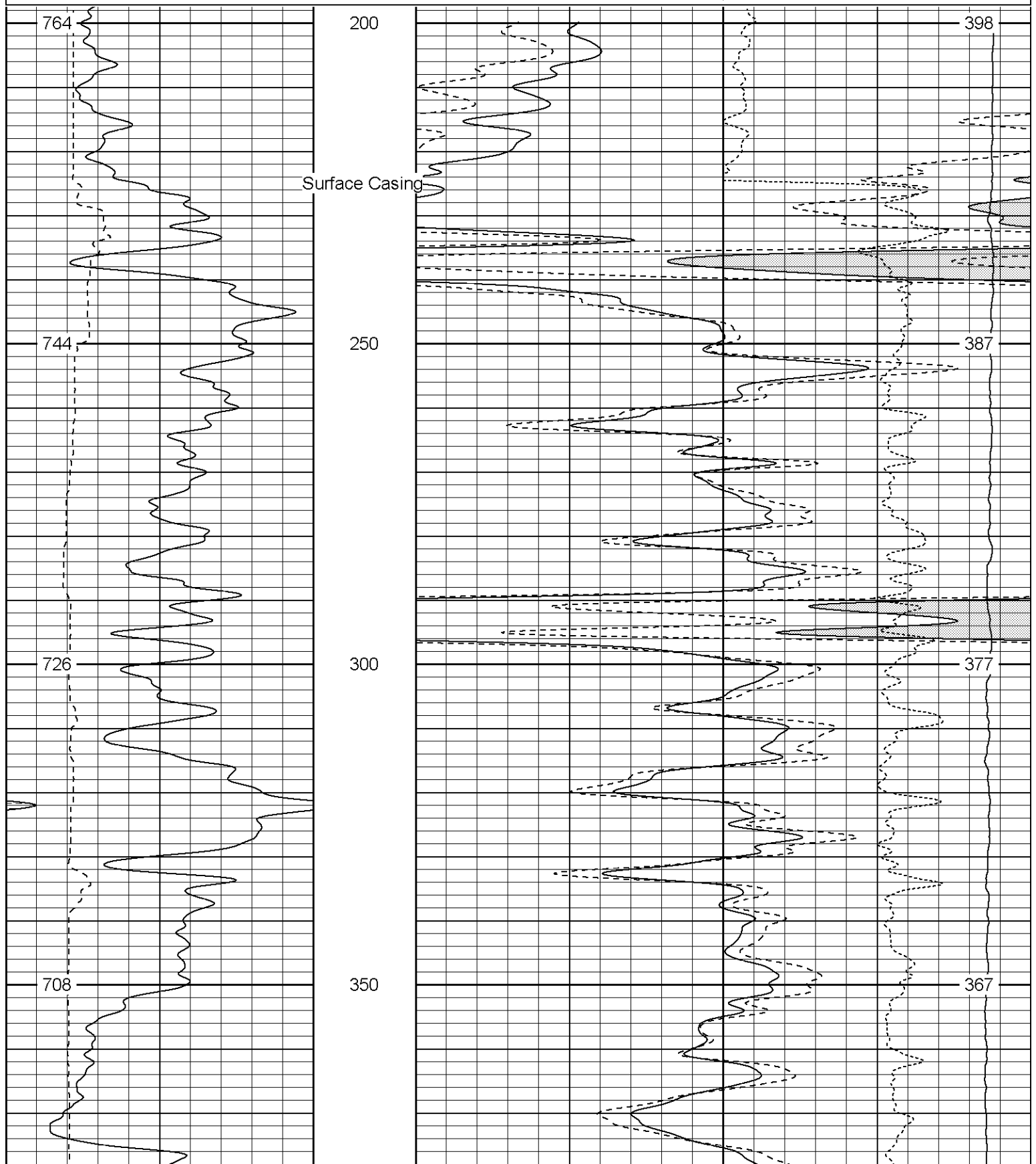
Well Directions:  
First Bosque Entrance, up Cherry Canyon, at Y go left, stay on main road 6.2 miles, turn left, drive thru ac 31-16, dead end on location.

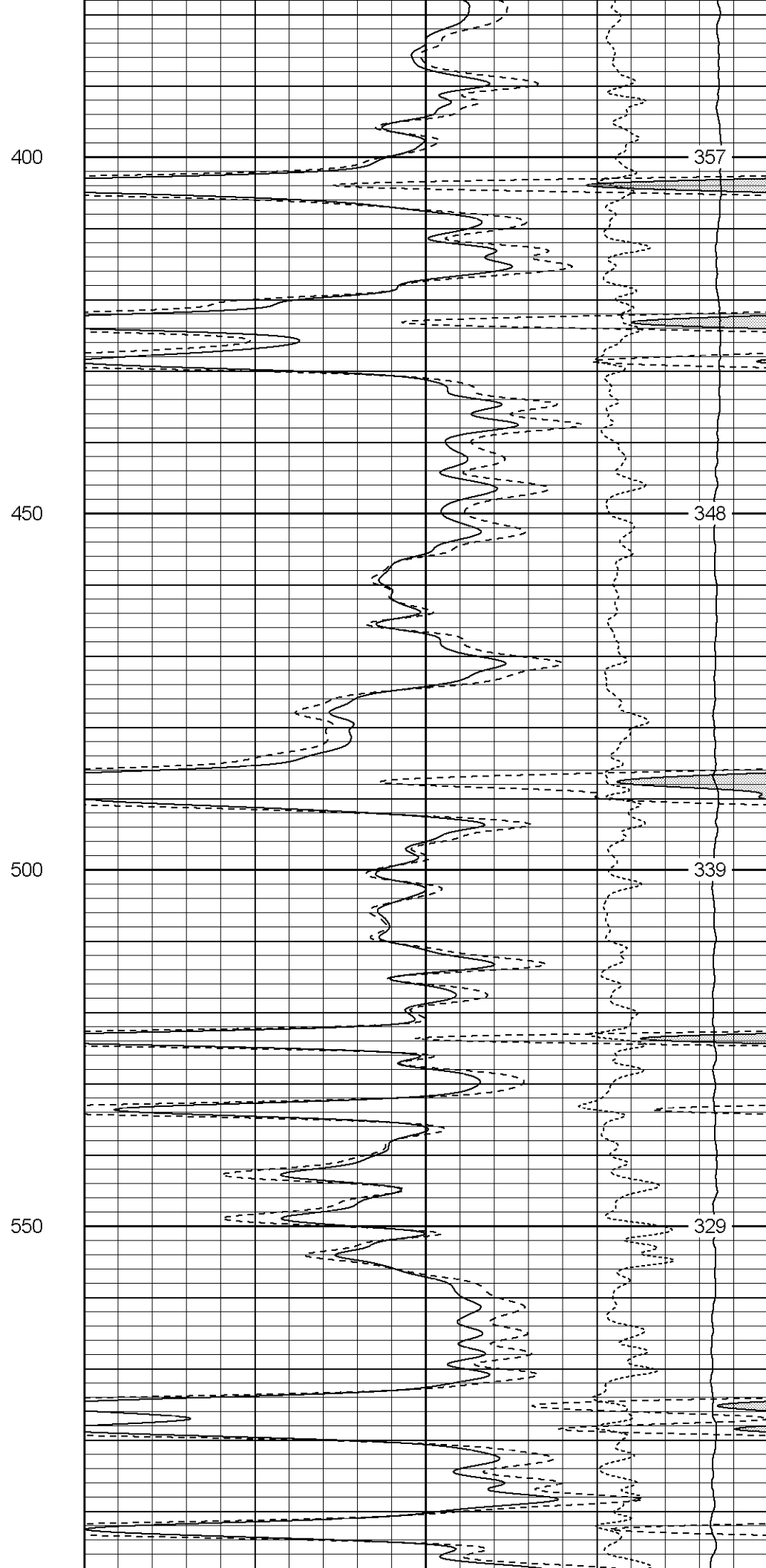
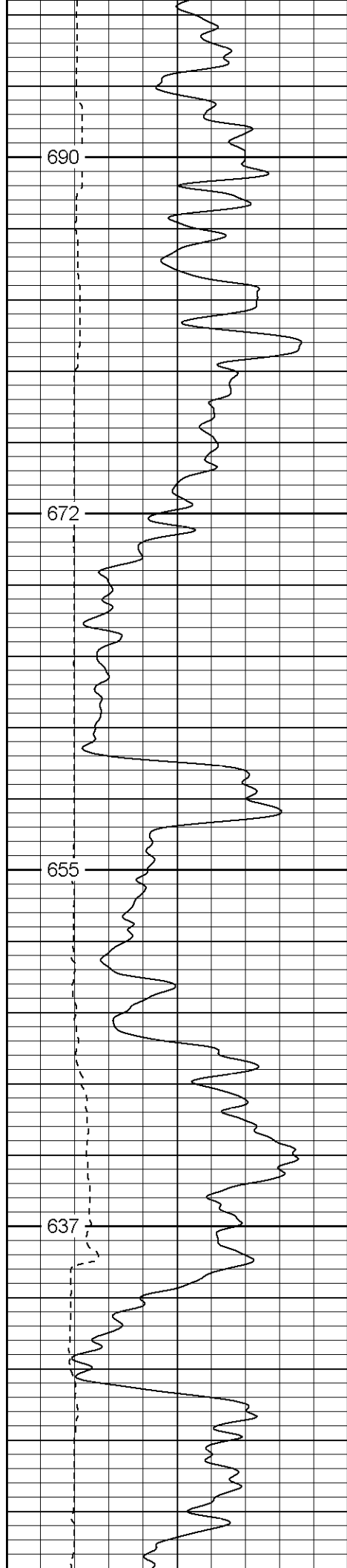
**Patterson**

**Main Pass**

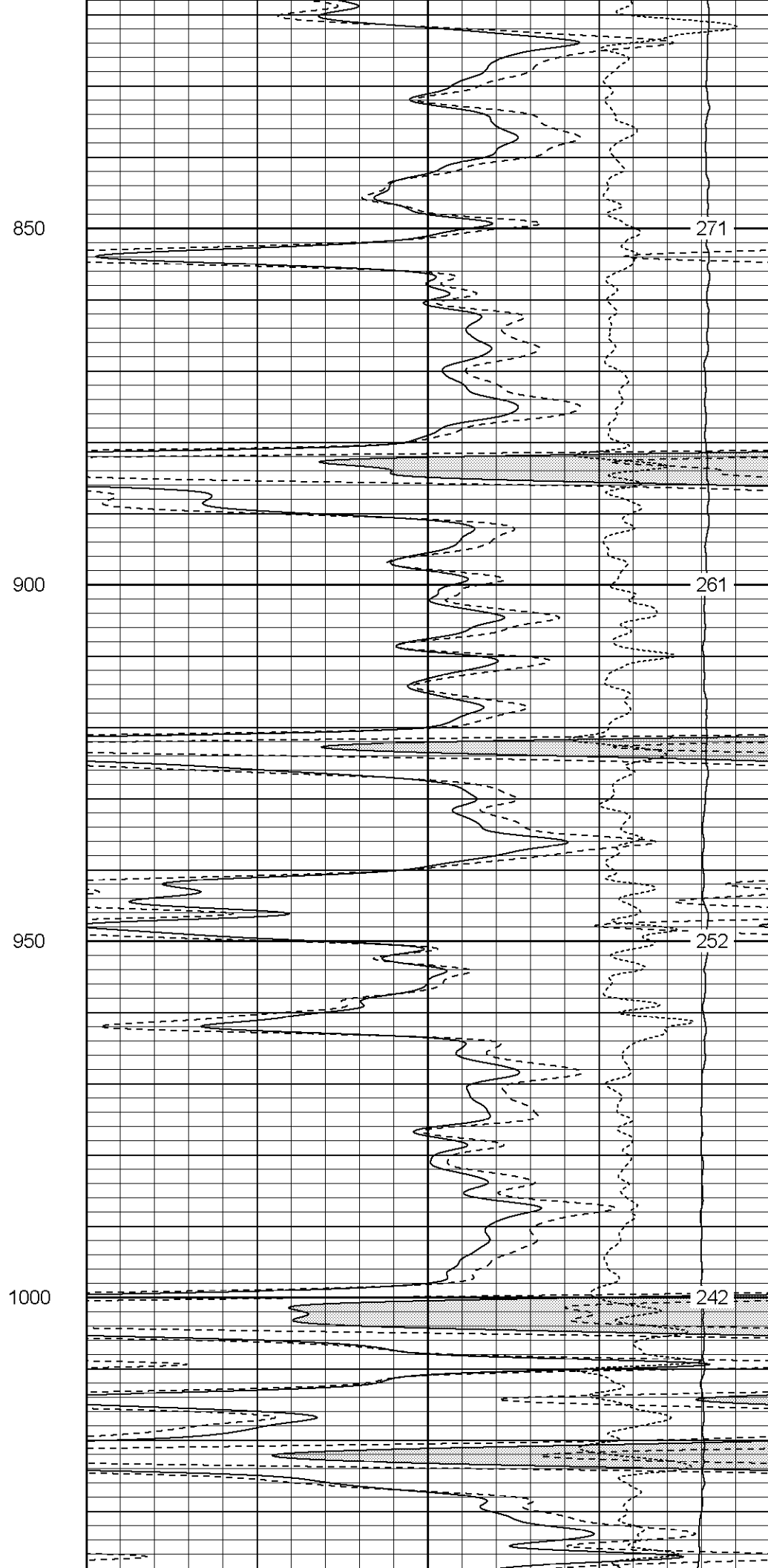
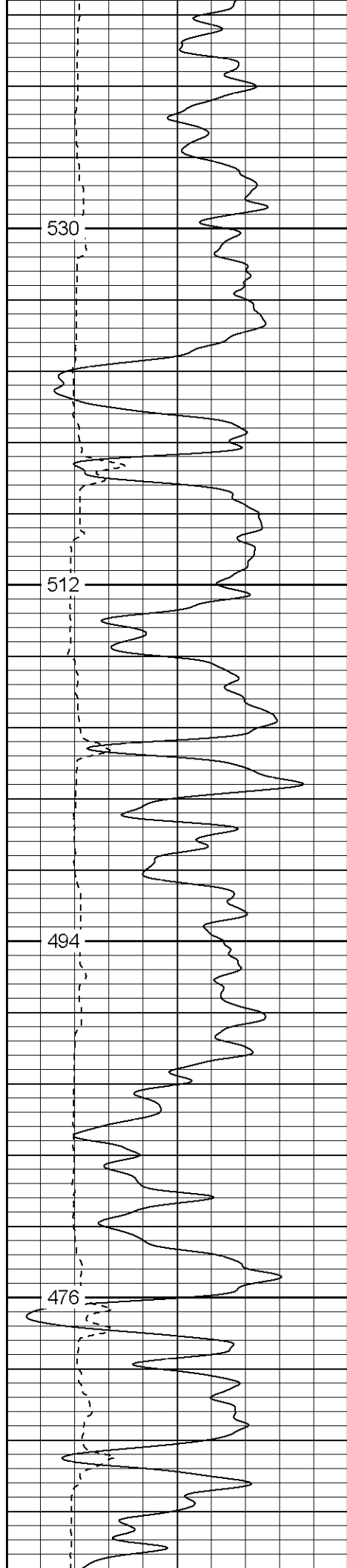
Database File: xtoac05-04.db  
Dataset Pathname: pass5.2  
Presentation Format: cdl  
Dataset Creation: Wed Jul 12 18:44:38 2006 by Calc Warrior 7.0 STD Ope  
Charted by: Depth in Feet scaled 1:240

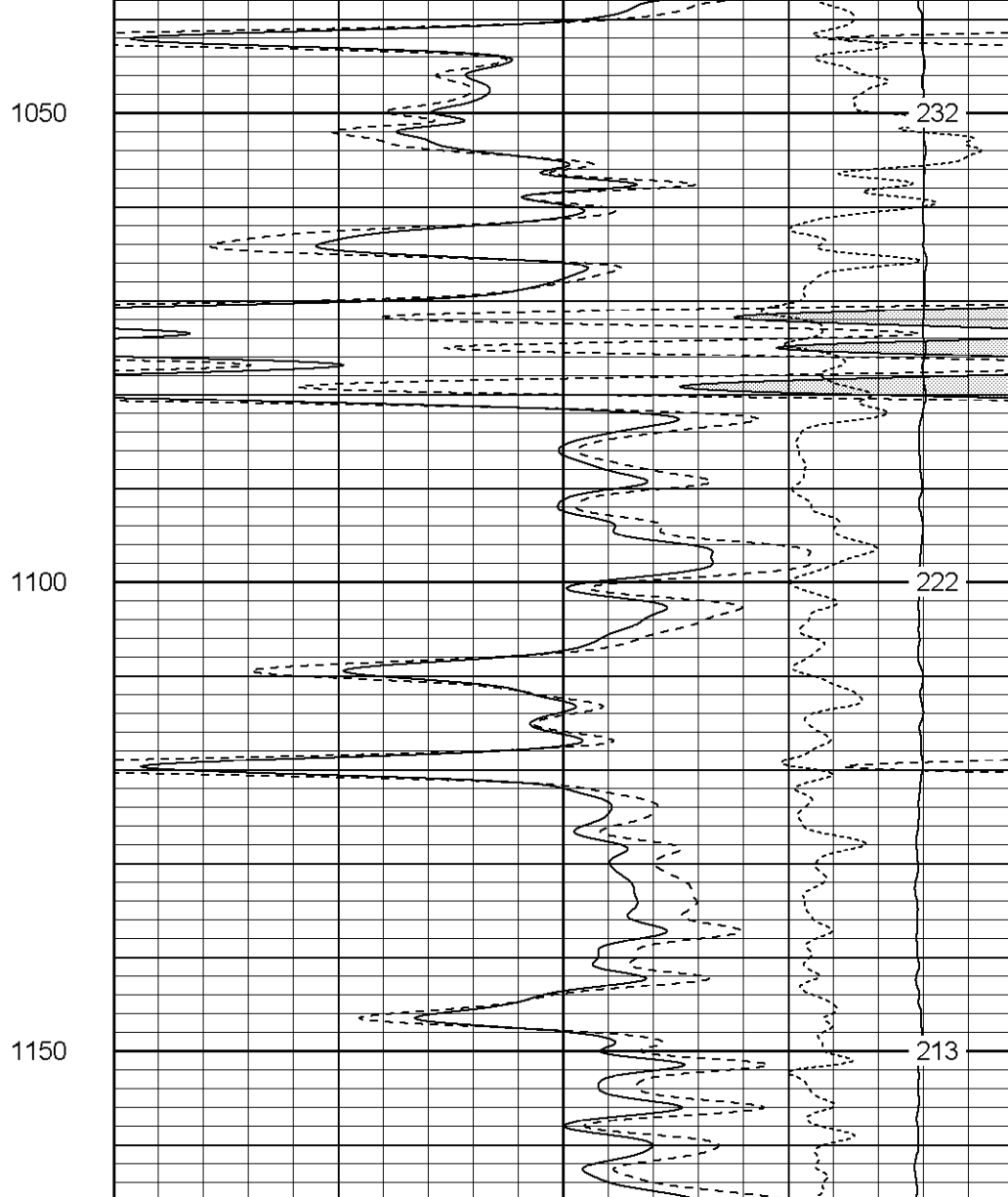
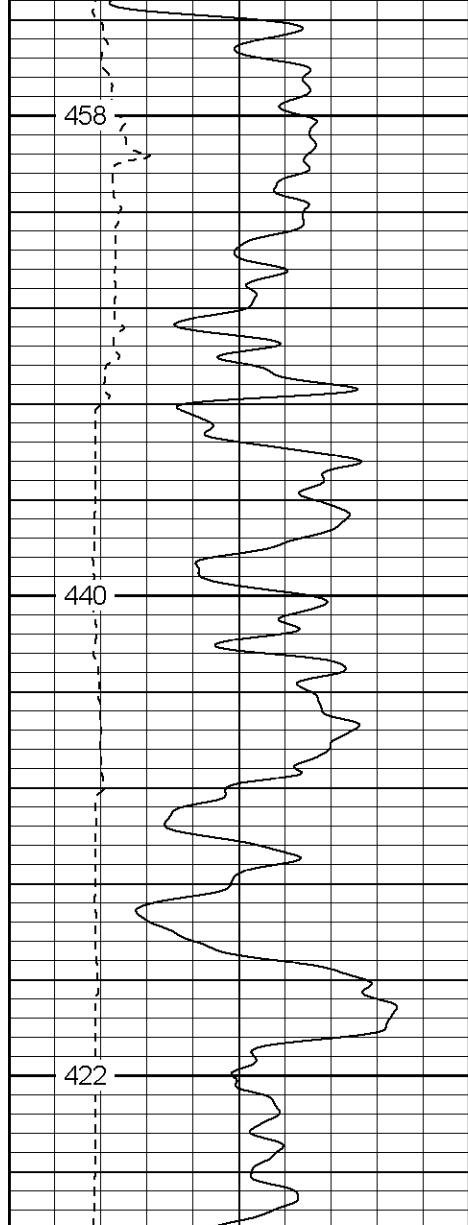
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0

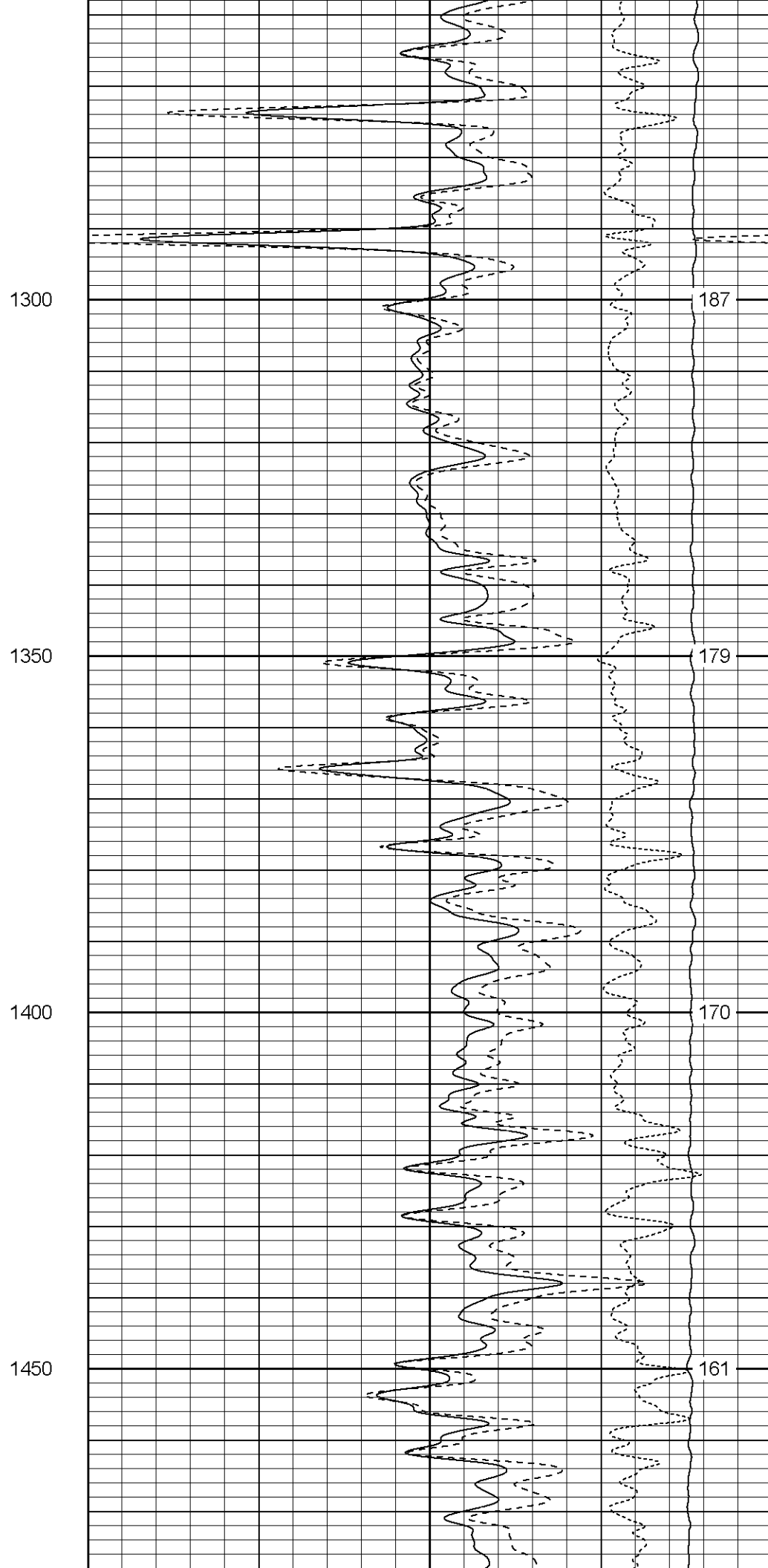
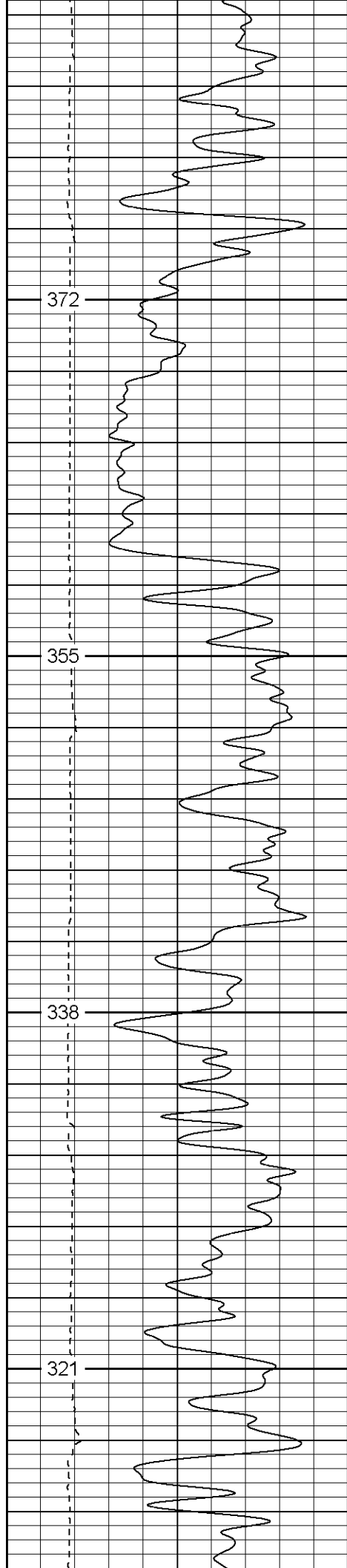


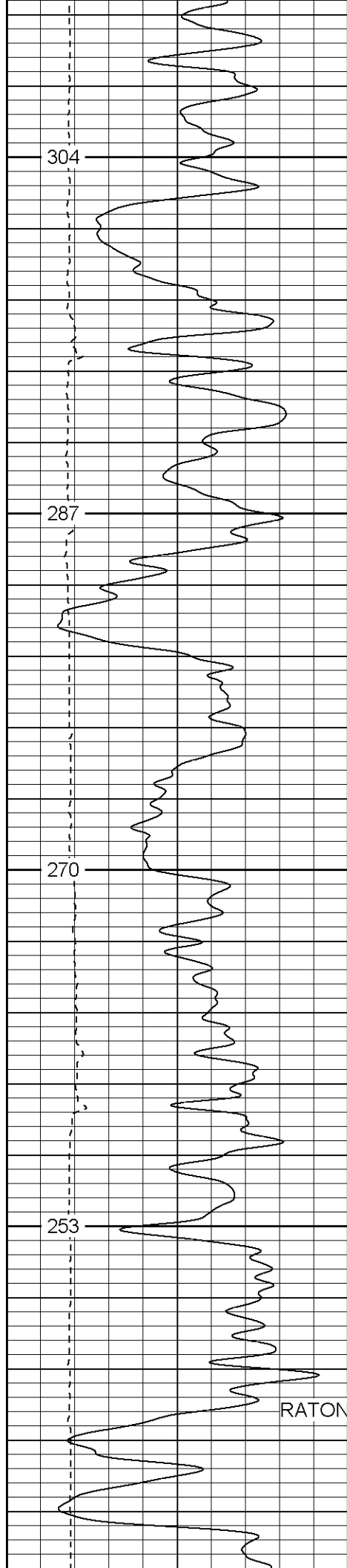




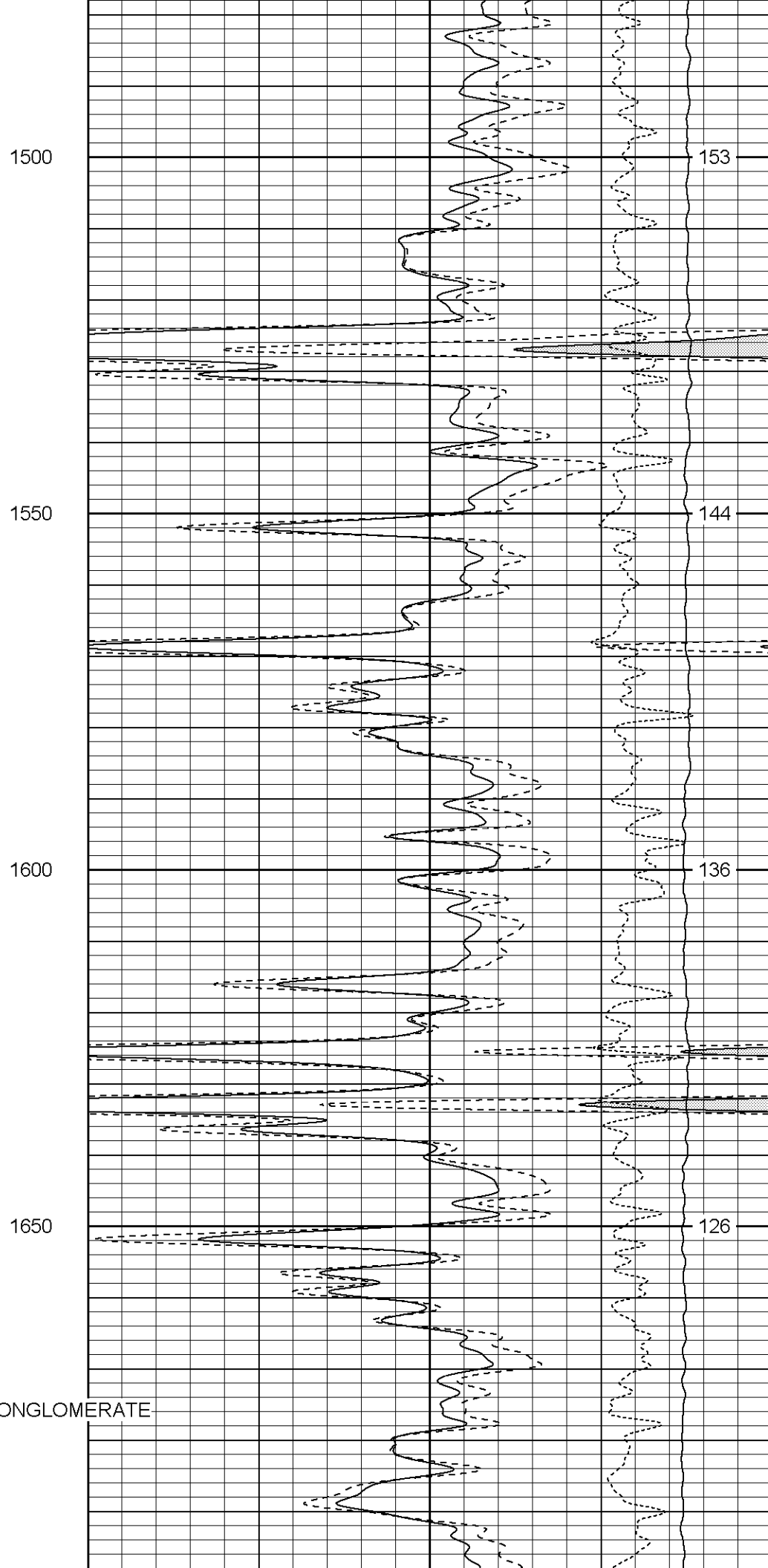








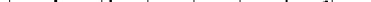
RATON CONGLOMERATE



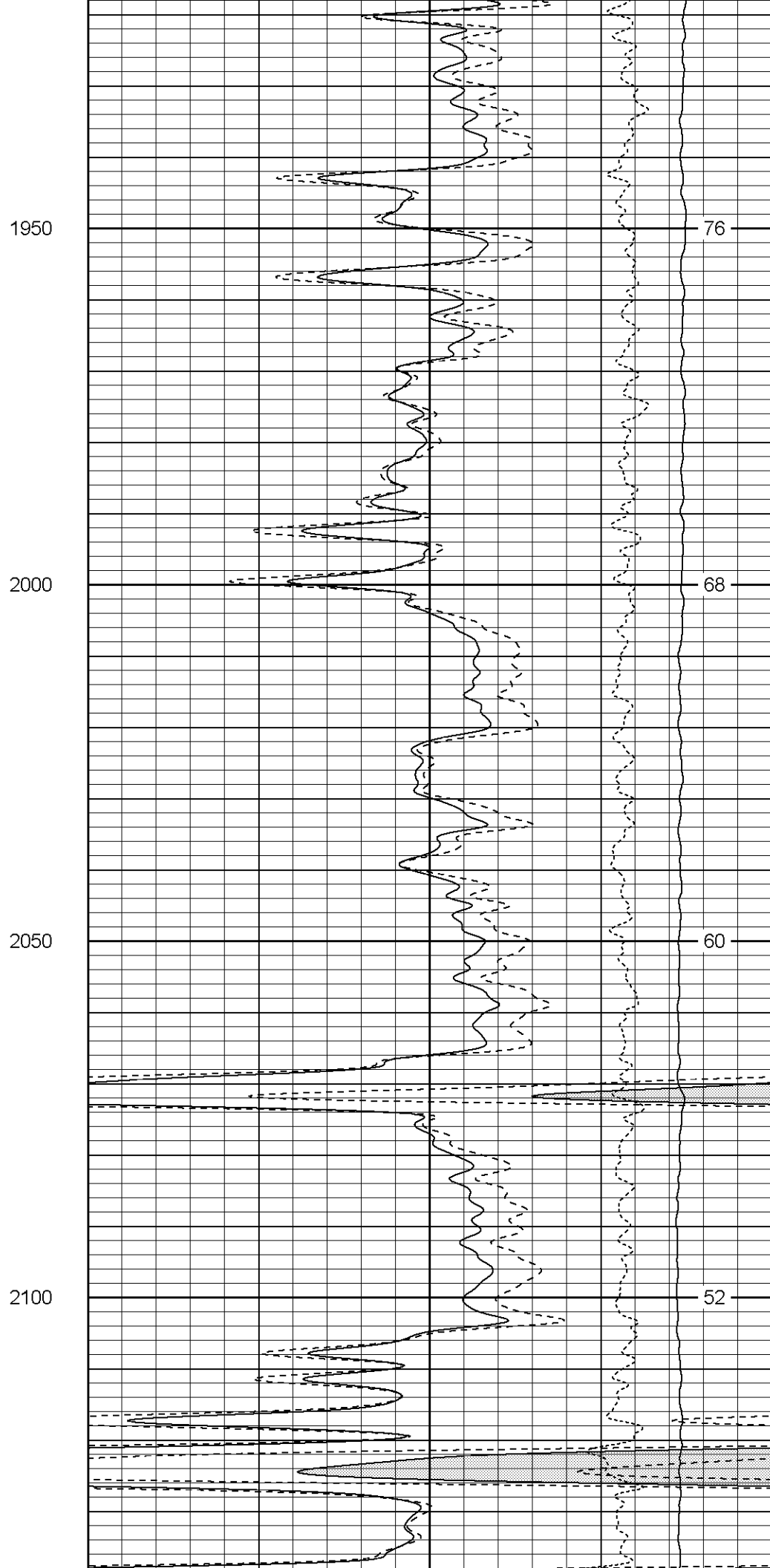
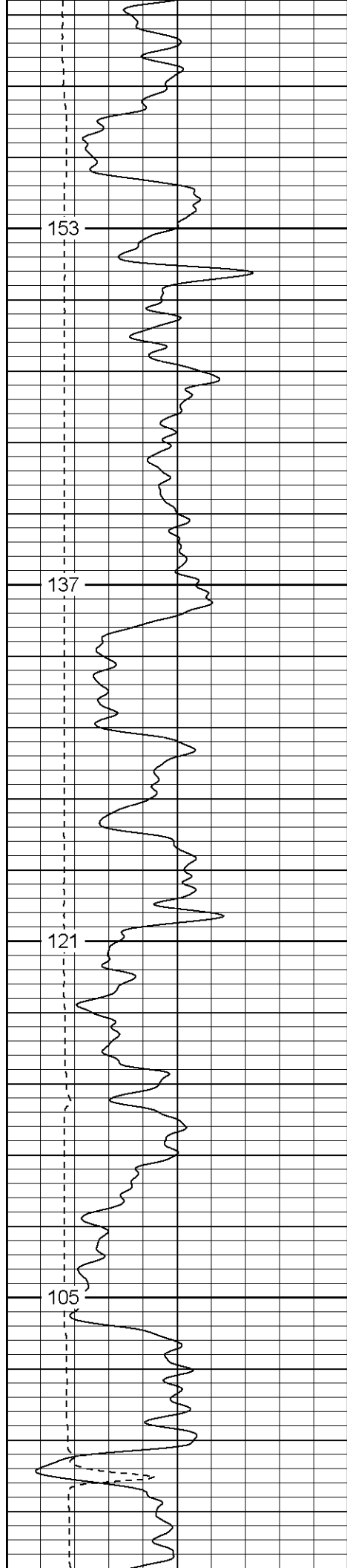


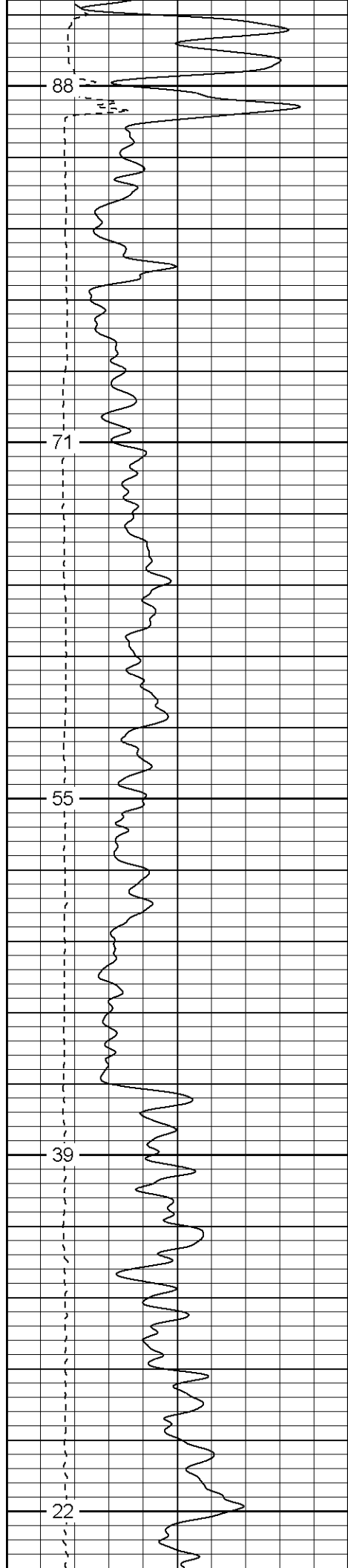
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1700



118





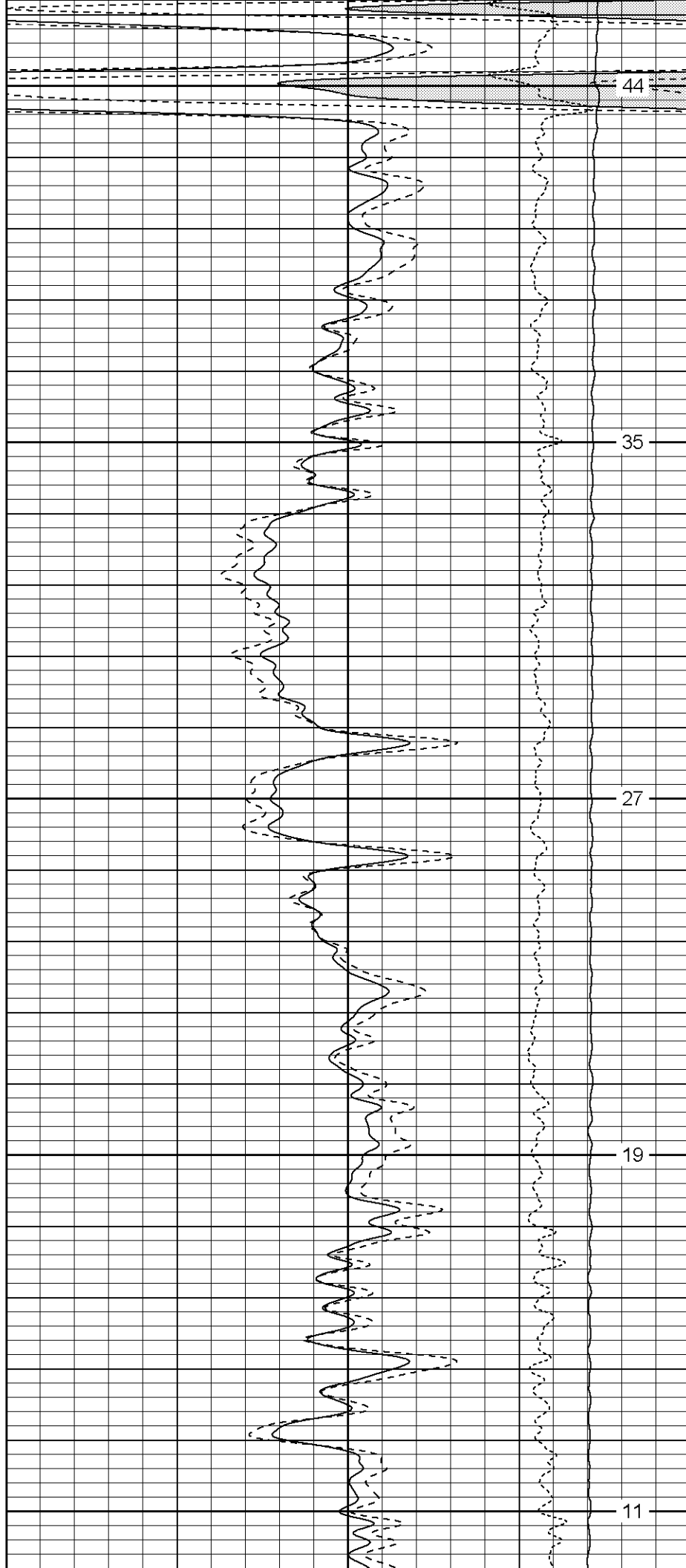
2150  
TRINIDAD

2200

2250

2300

2350



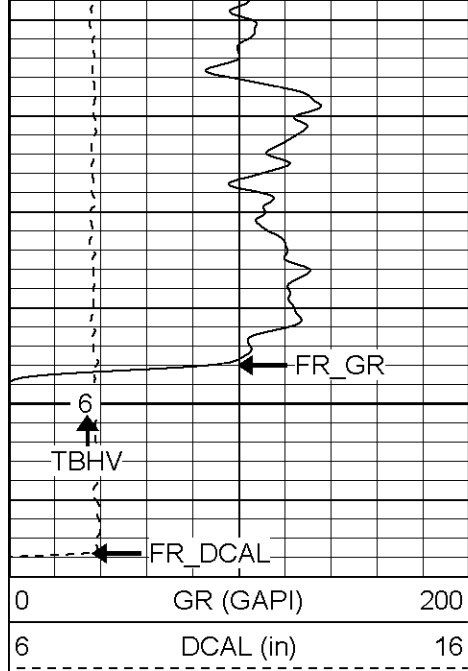
44

35

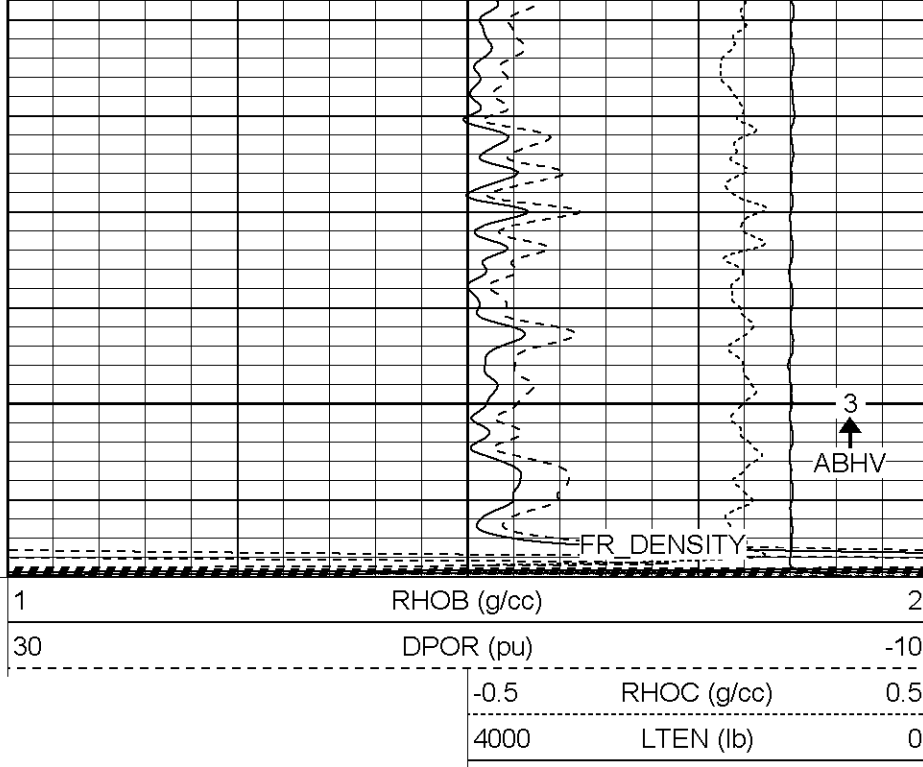
27

19

11



2400



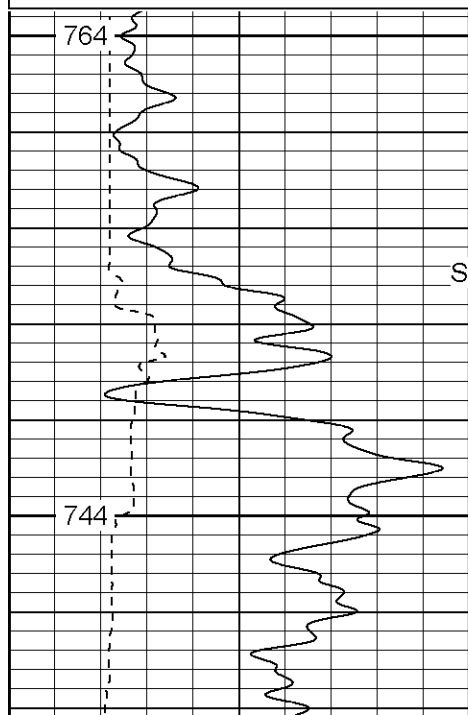
**Patterson**

**Main Pass**

Database File: xtoac05-04.db  
 Dataset Pathname: pass5.2  
 Presentation Format: cdnl  
 Dataset Creation: Wed Jul 12 18:44:38 2006 by Calc Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16

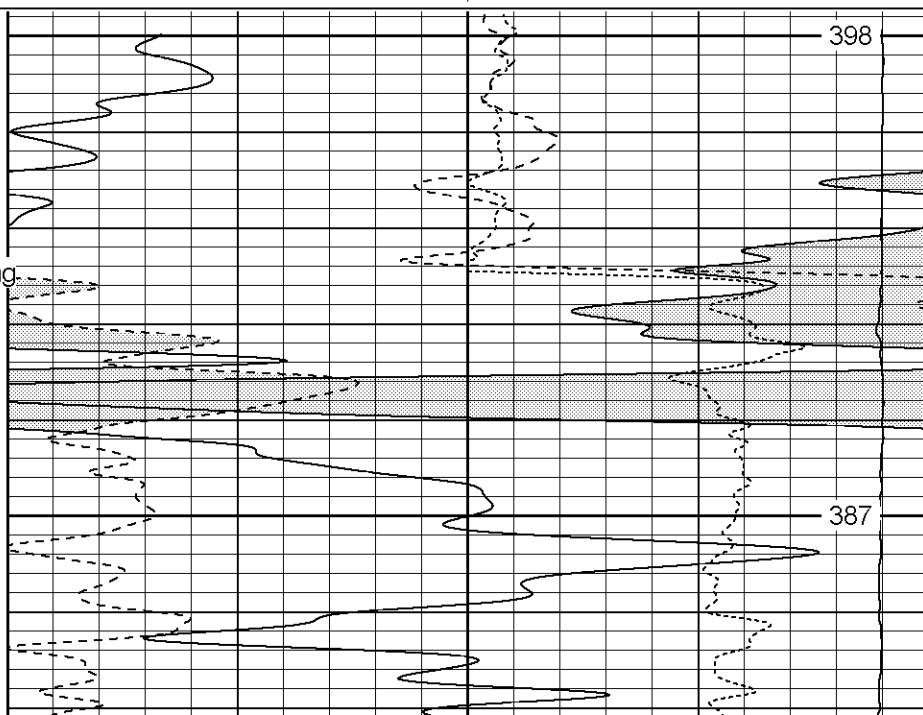
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHO� (g/cc)	0.5
5000	LTEN (lb)	0

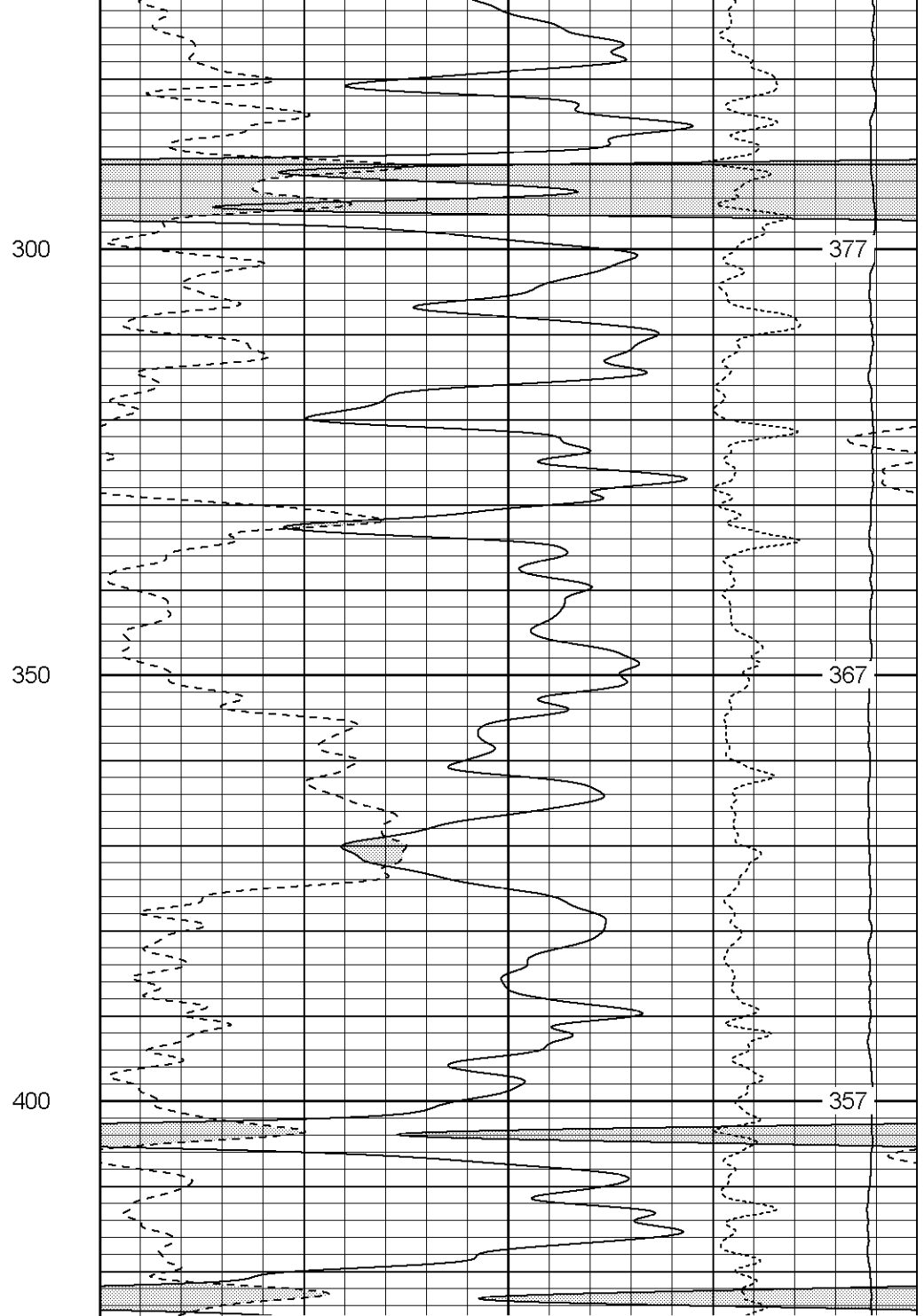
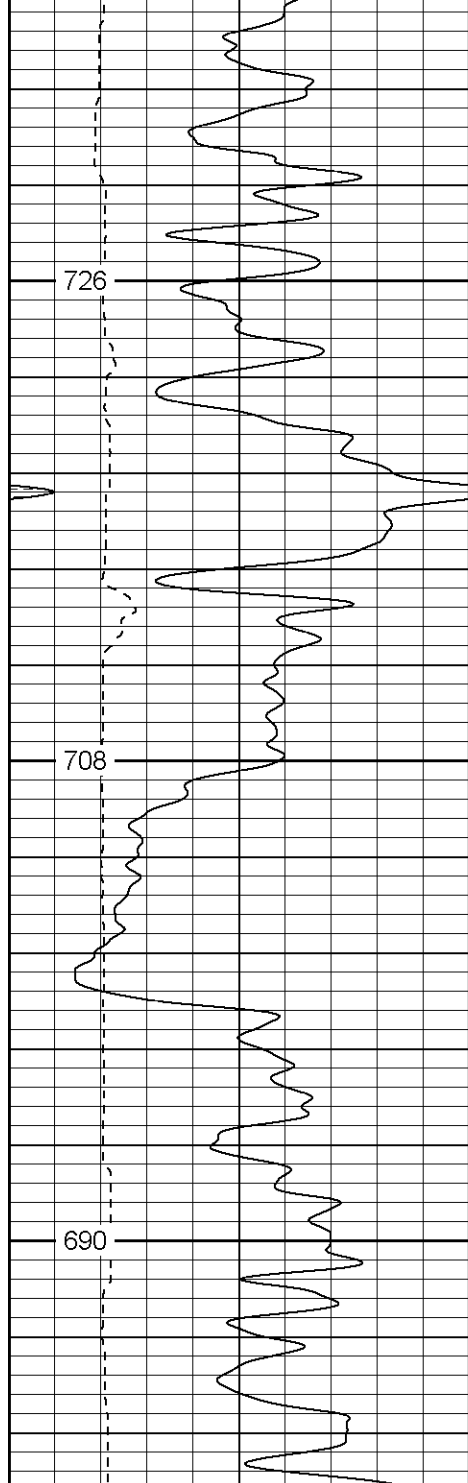


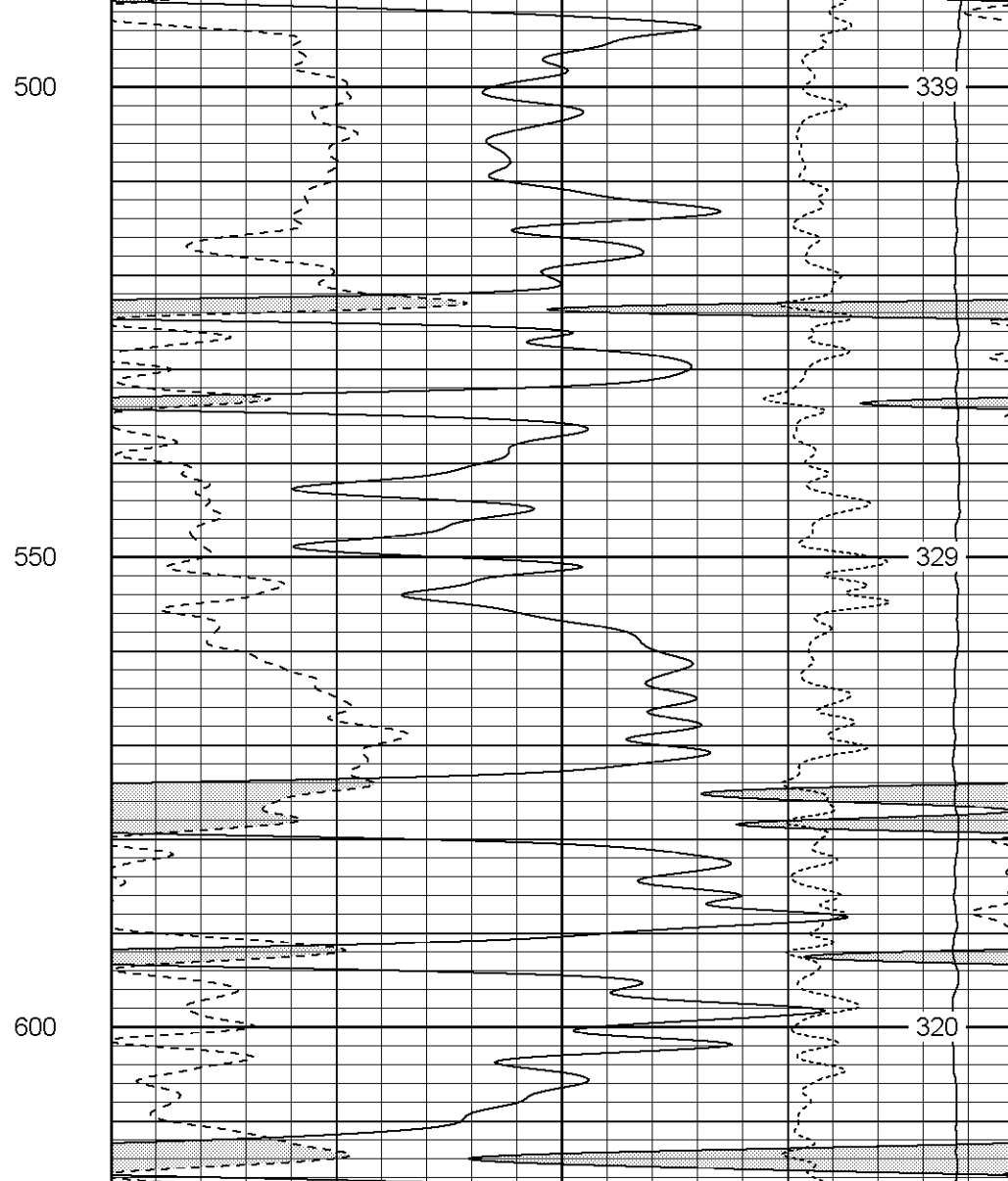
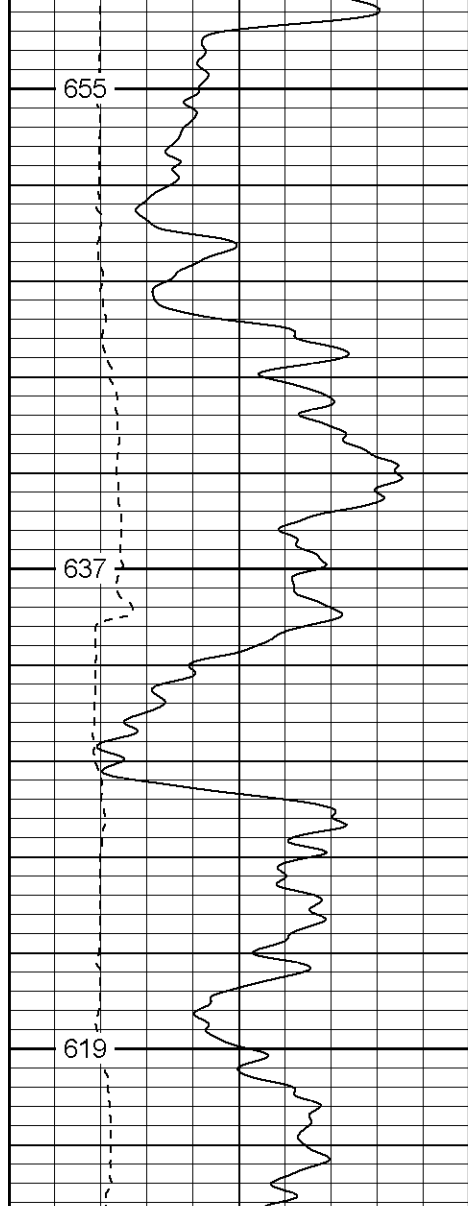
200

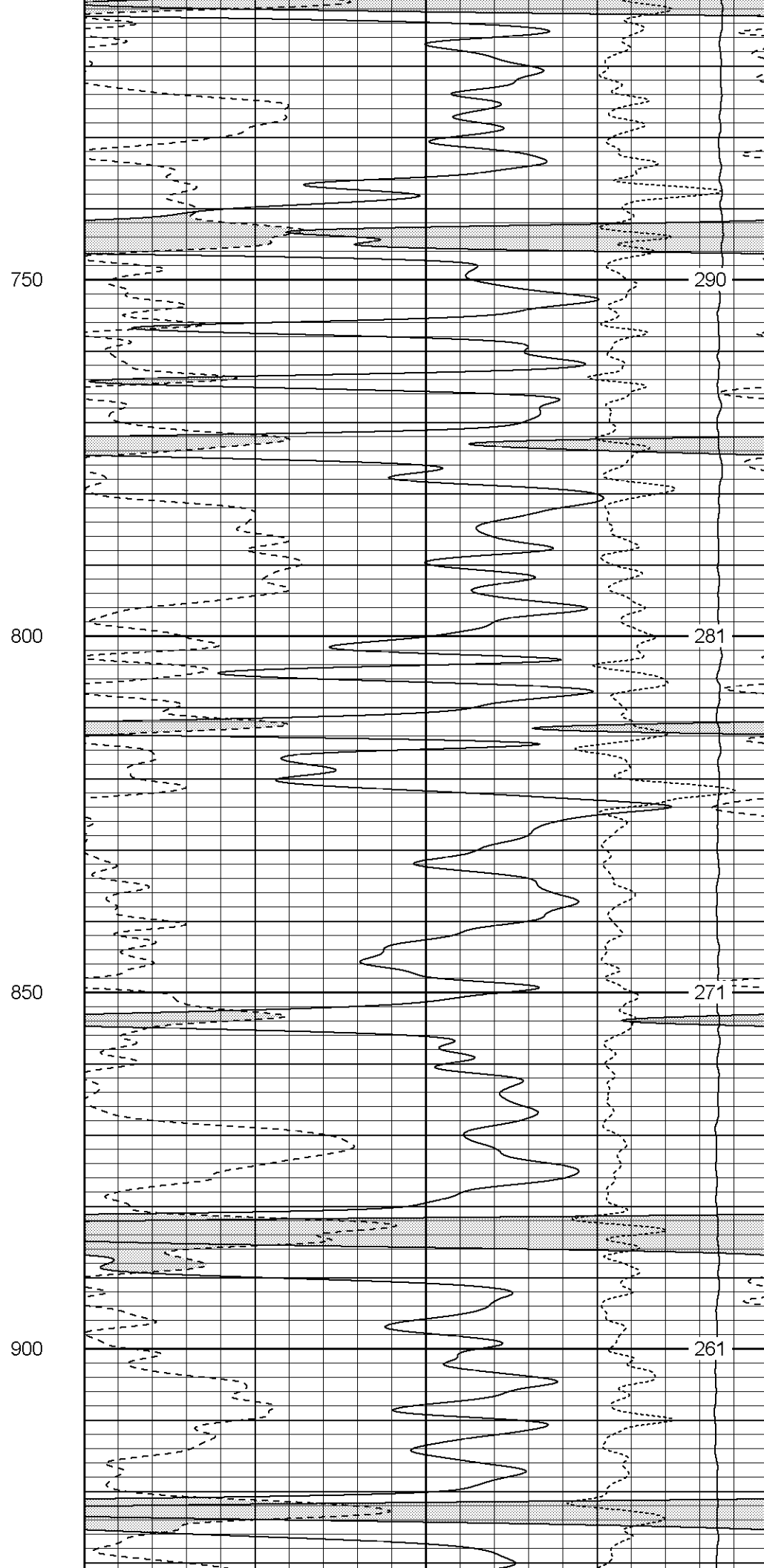
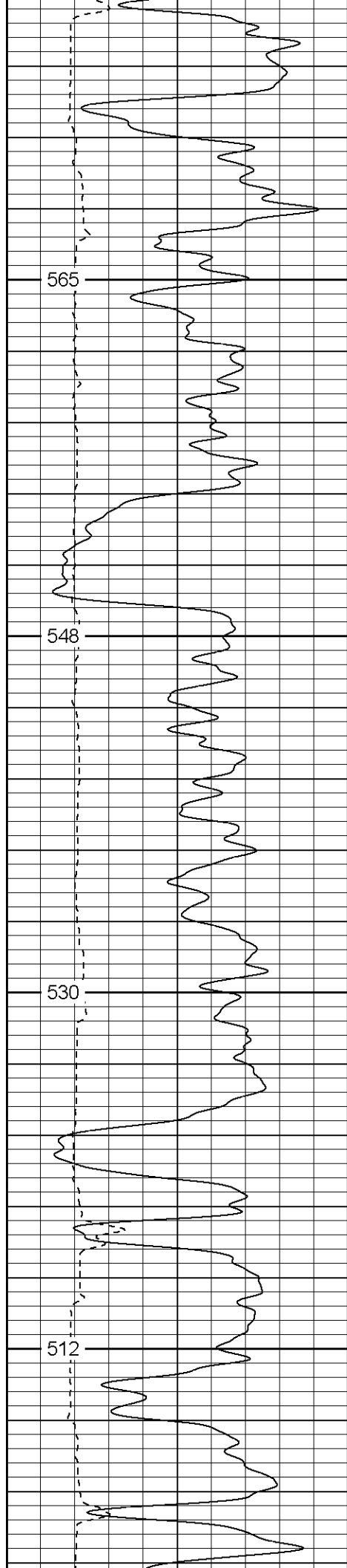
250

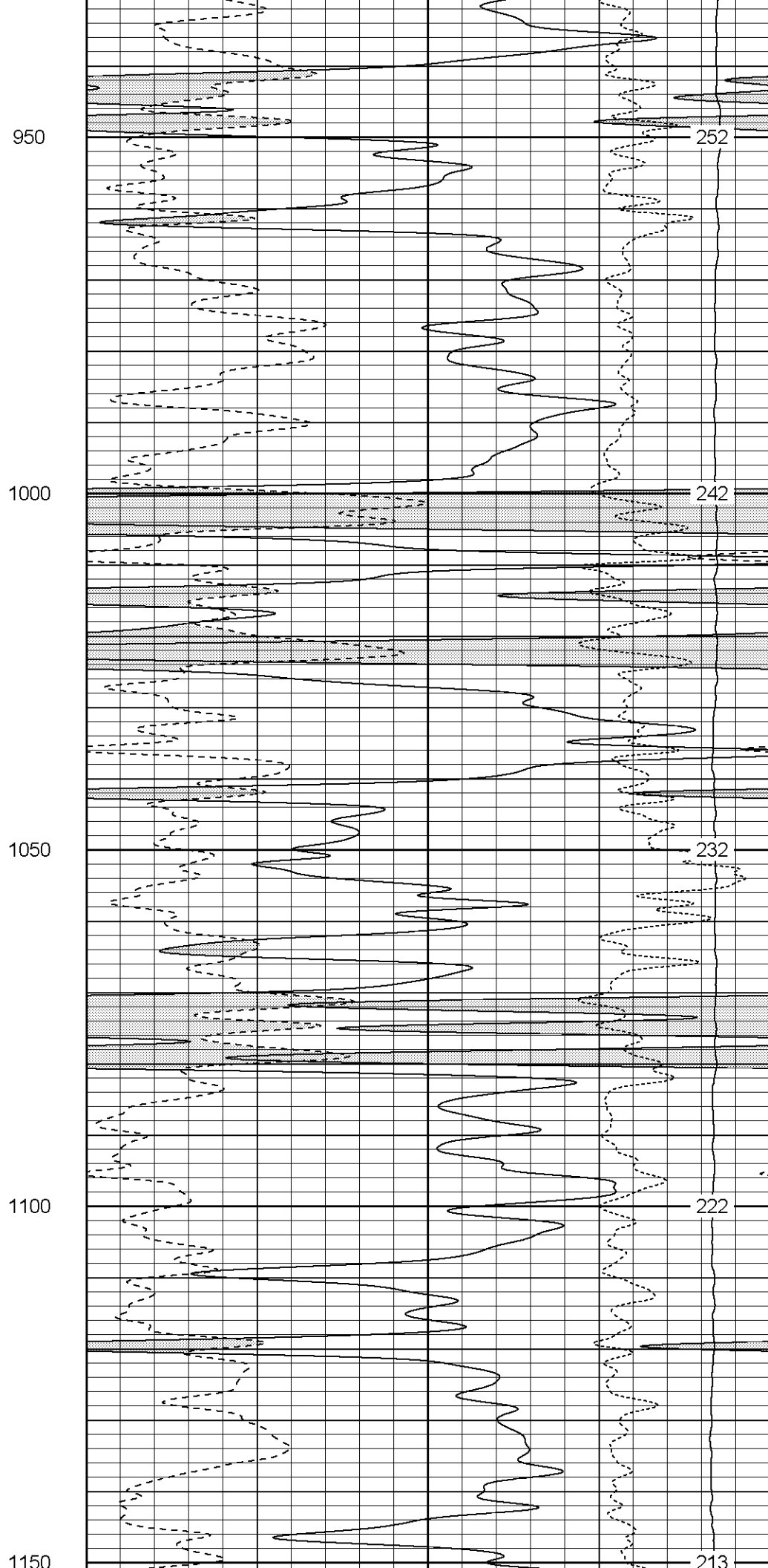
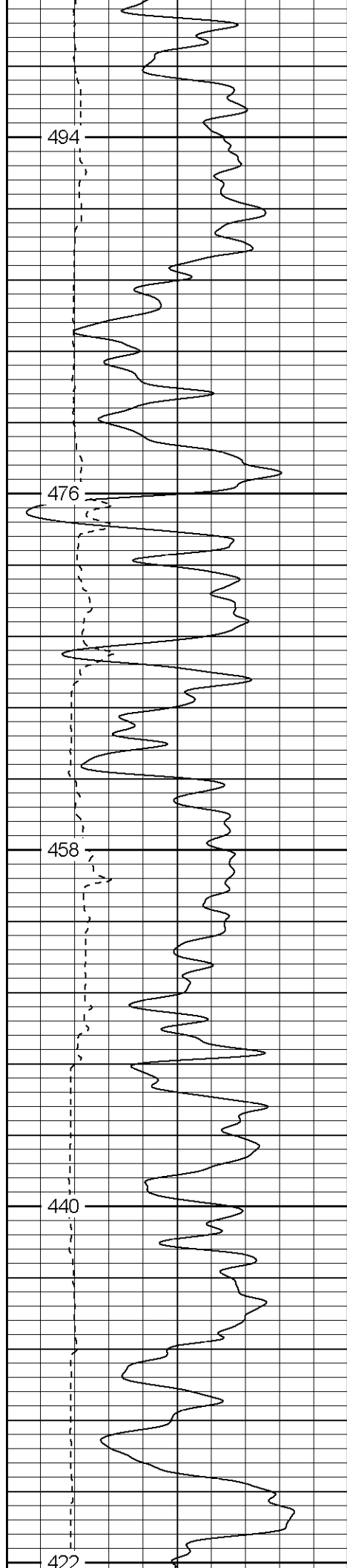
Surface Casing



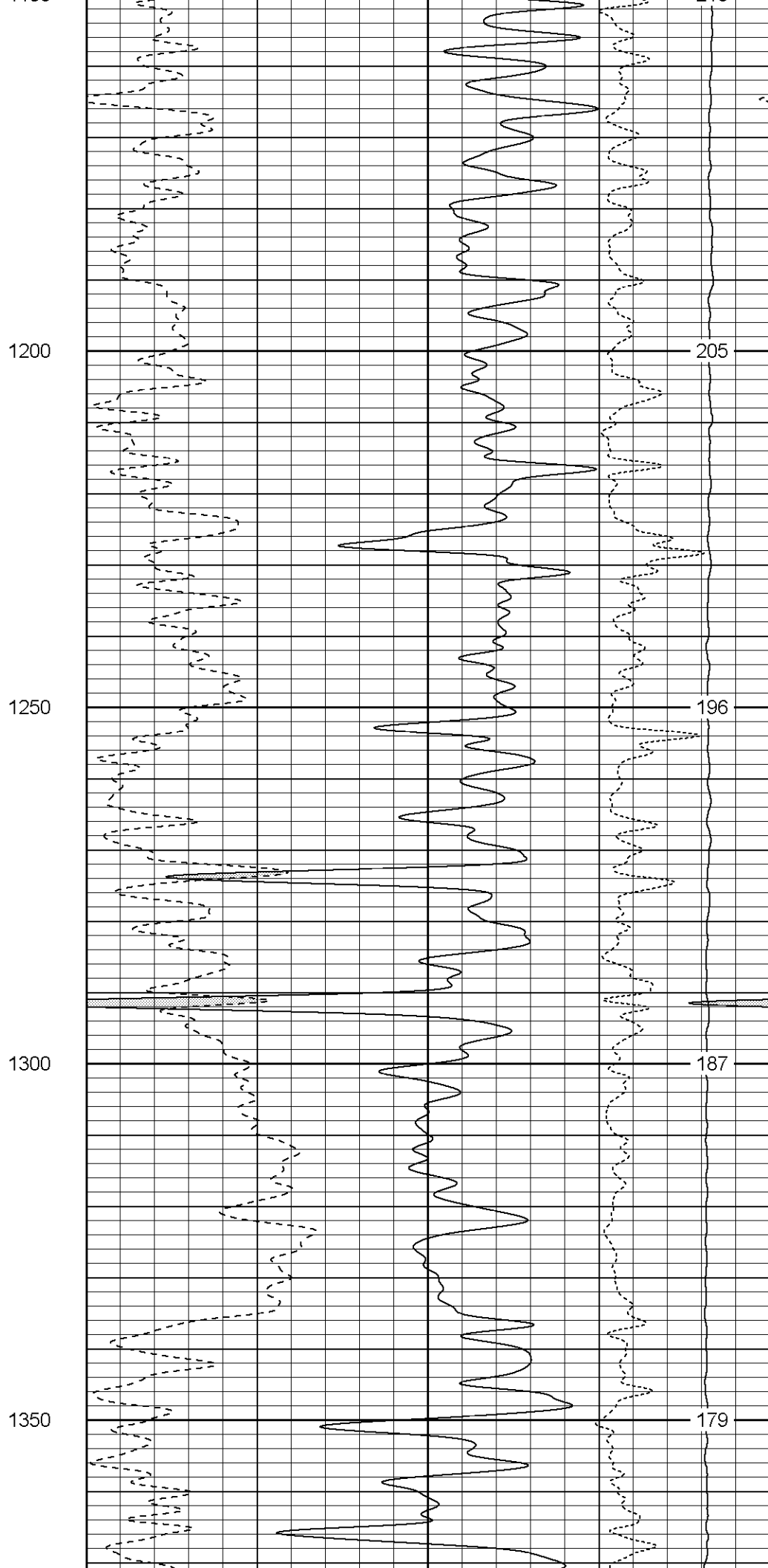
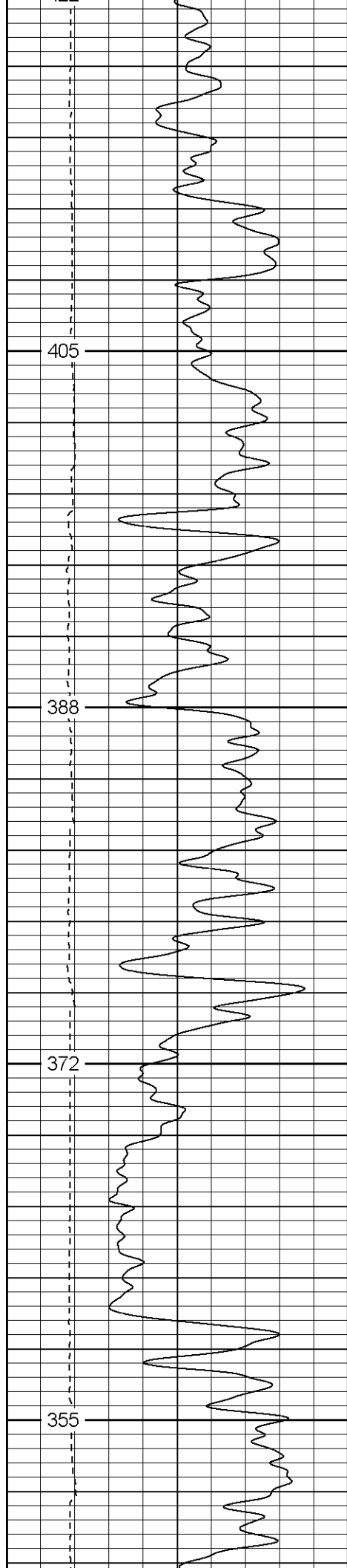


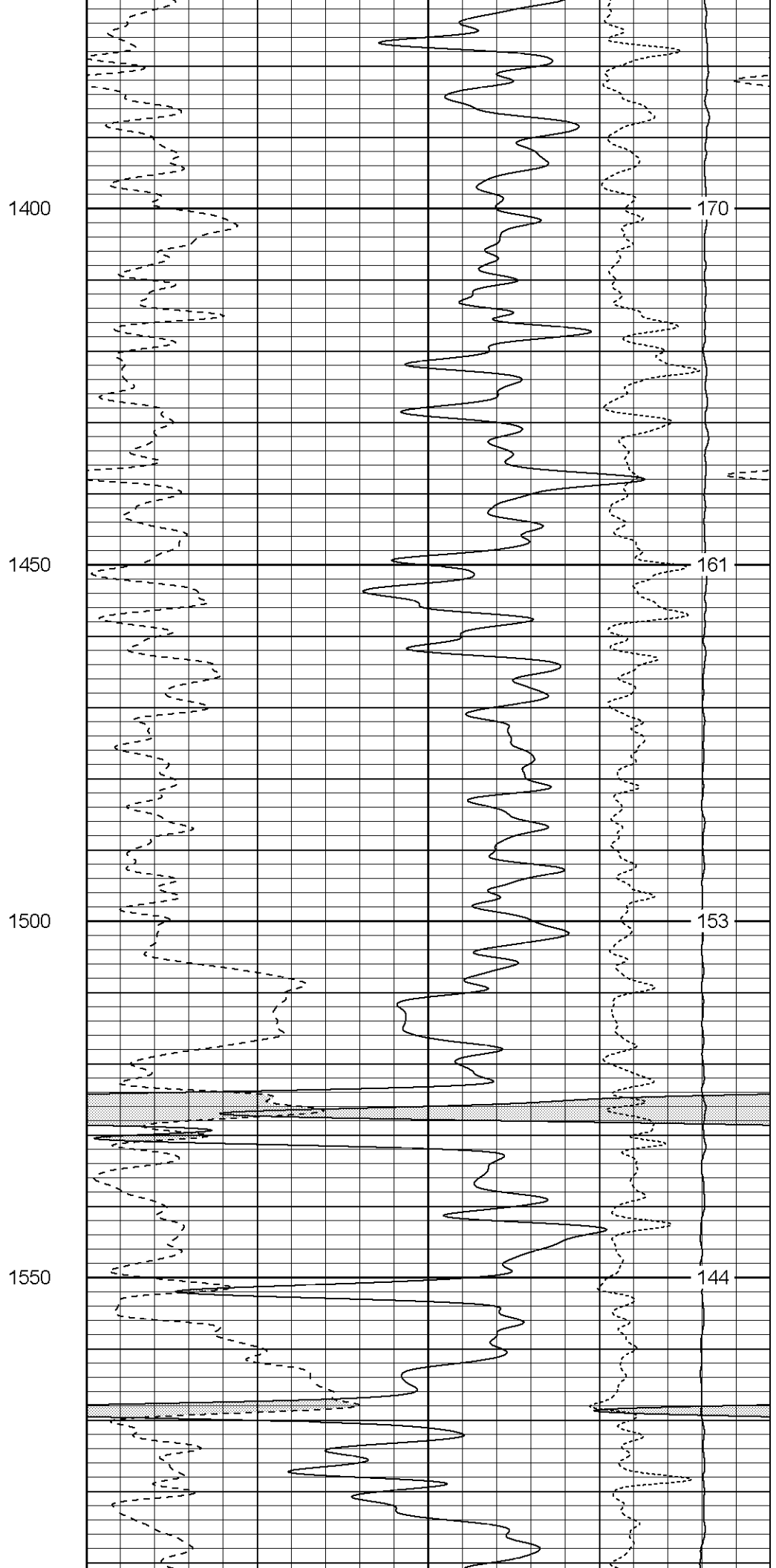
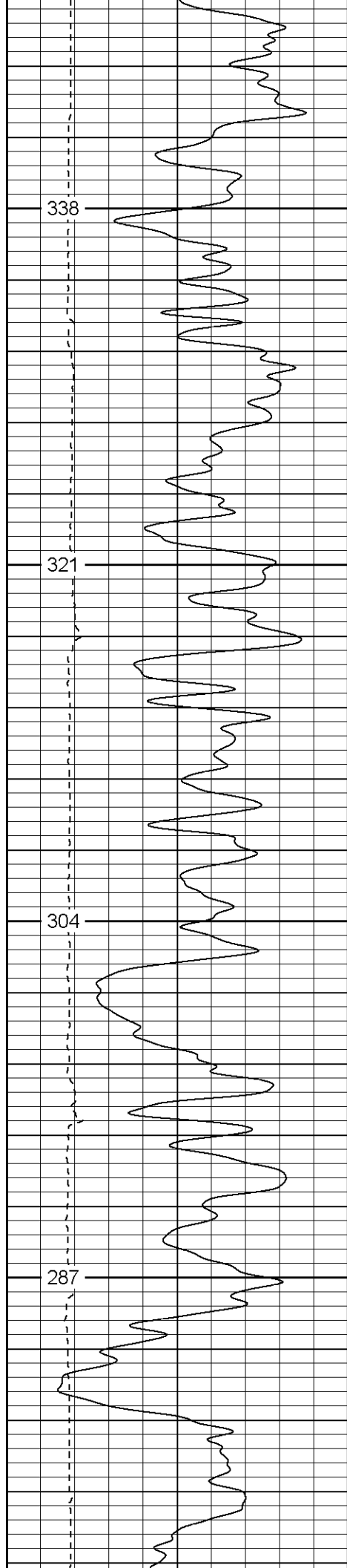


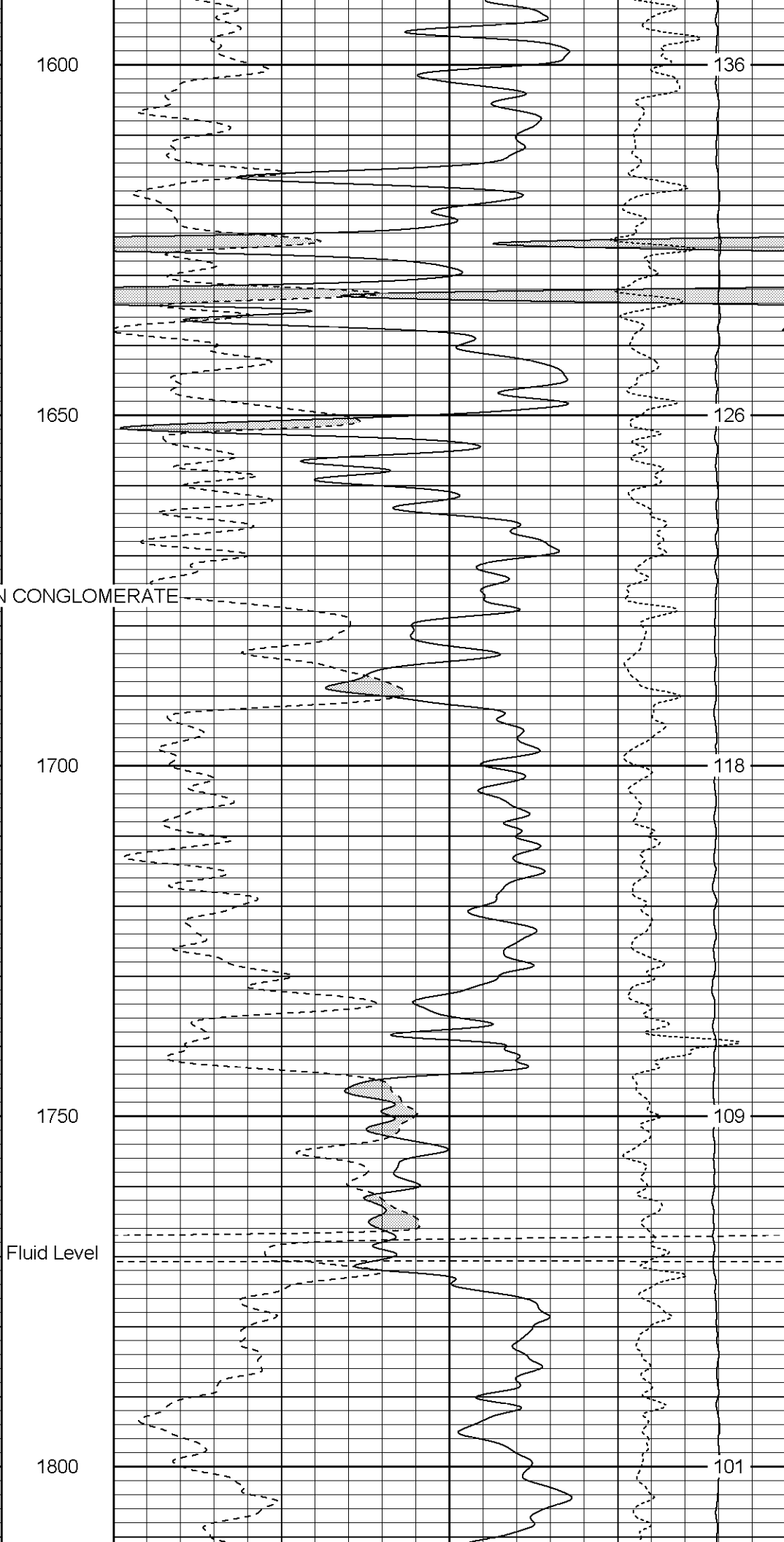
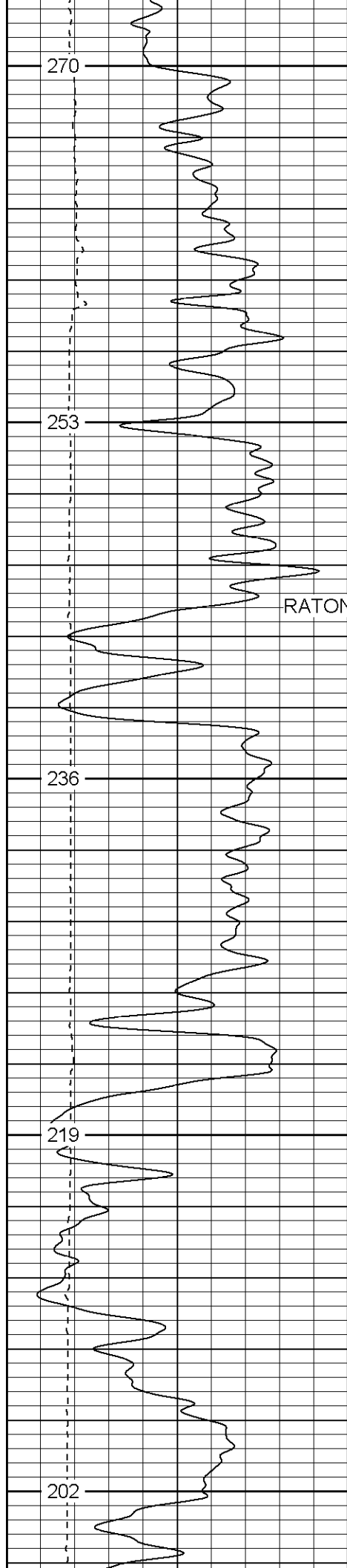


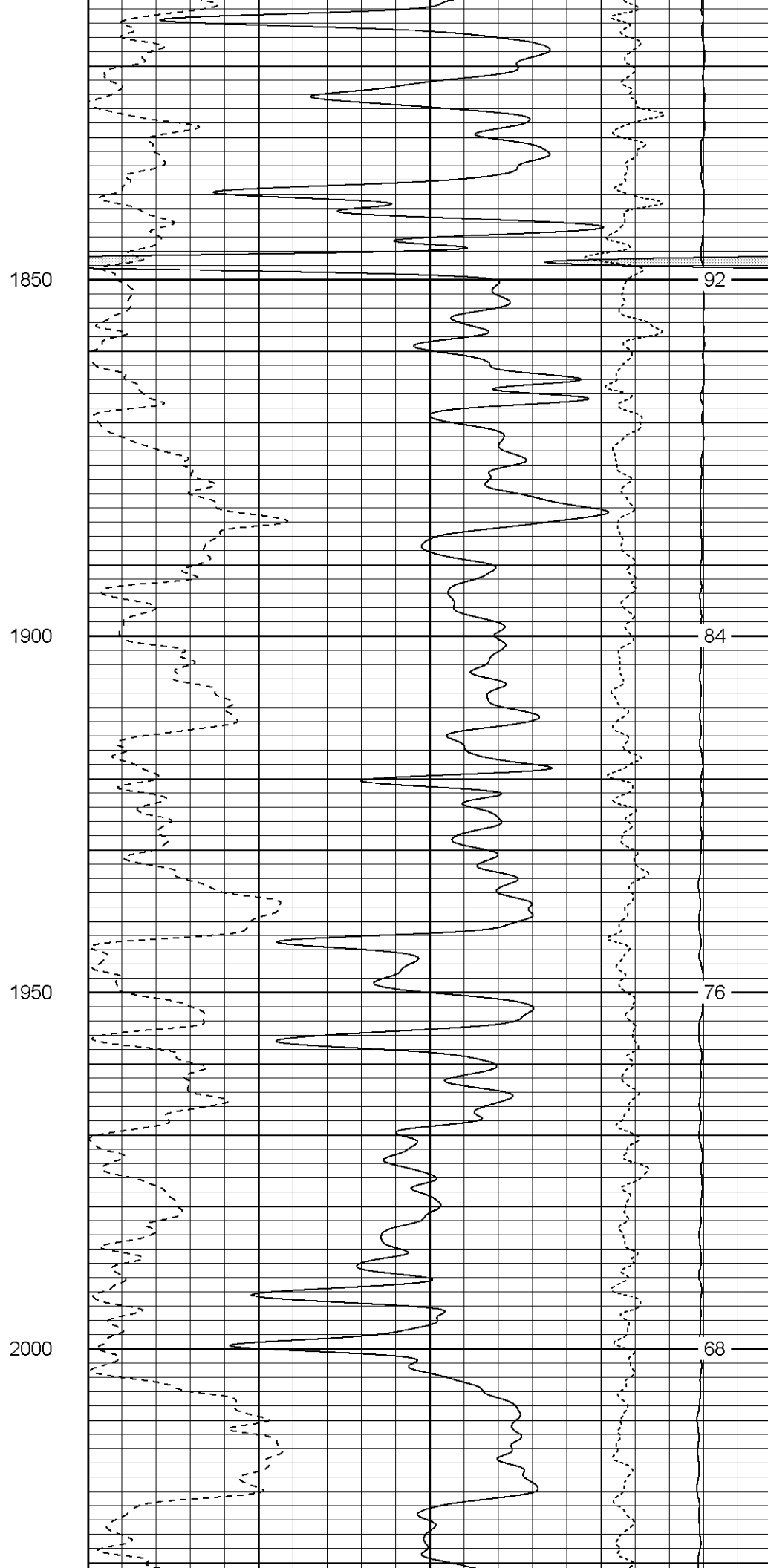
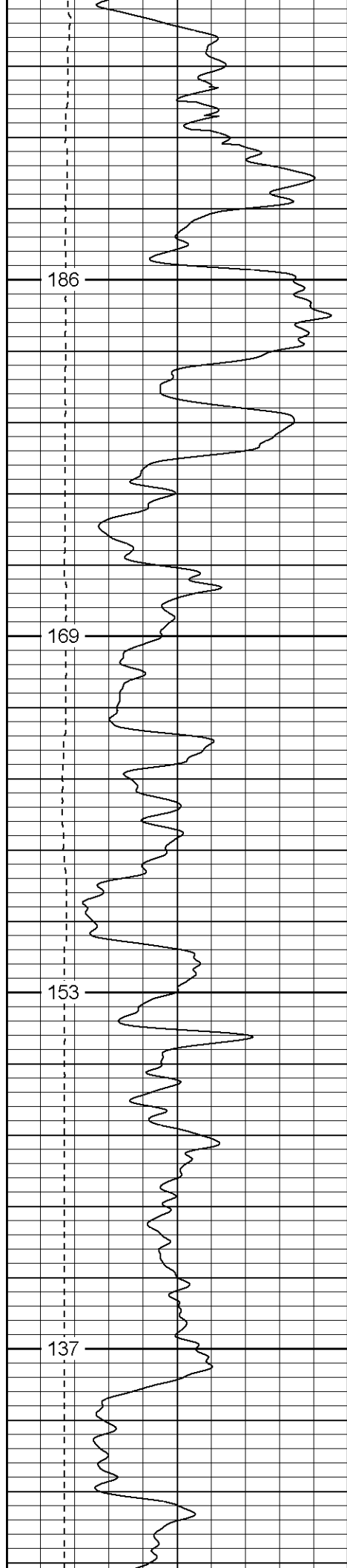


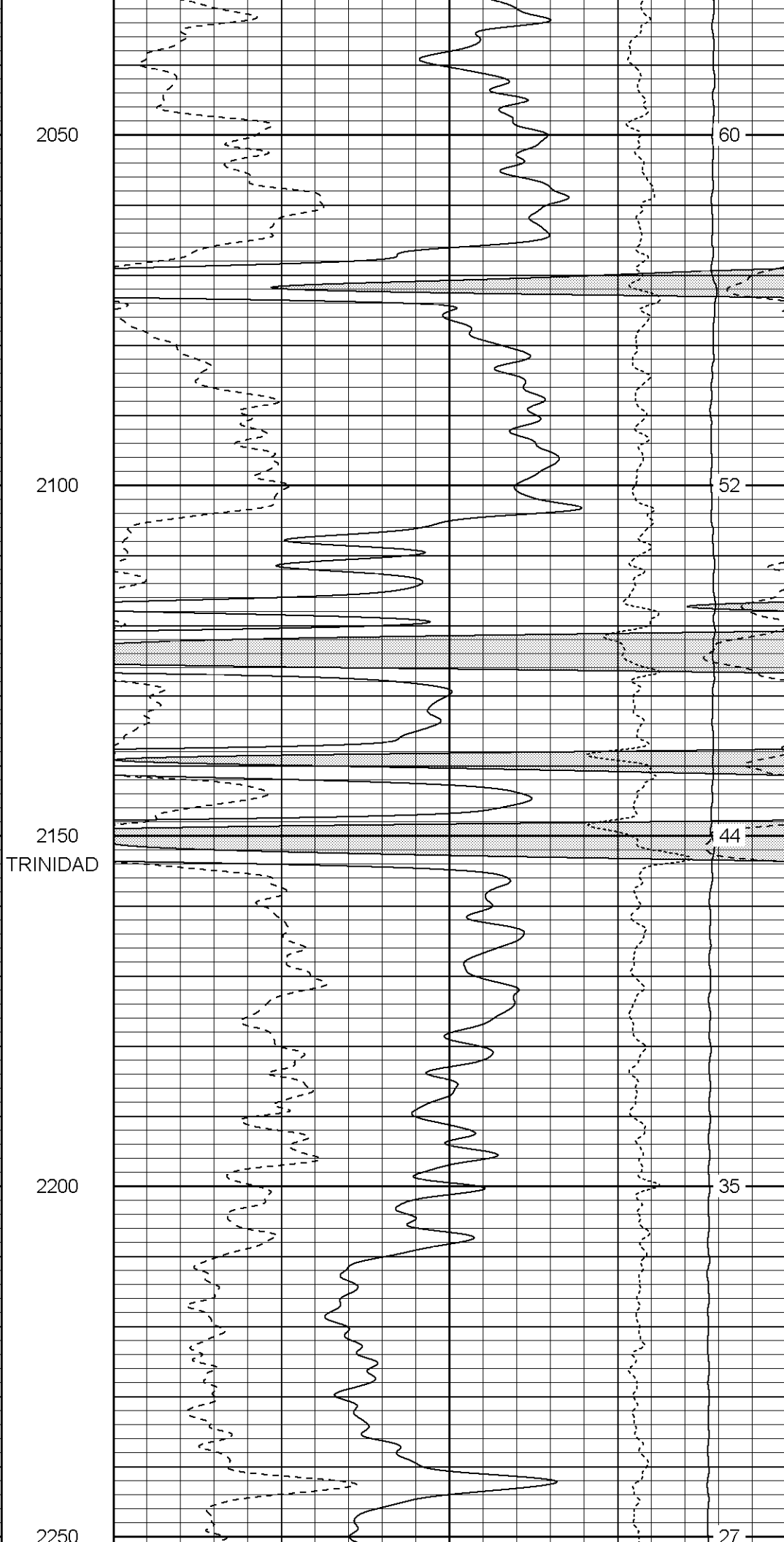
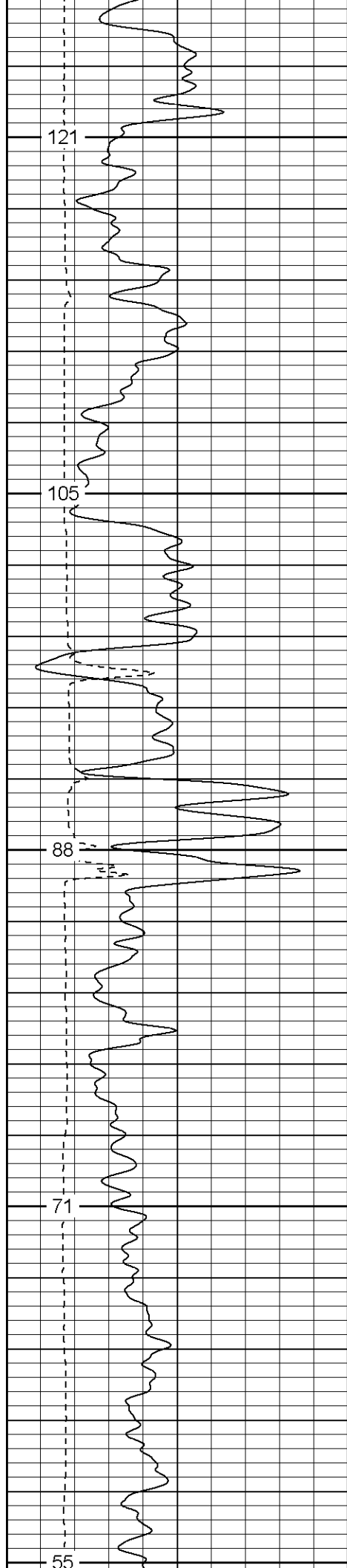


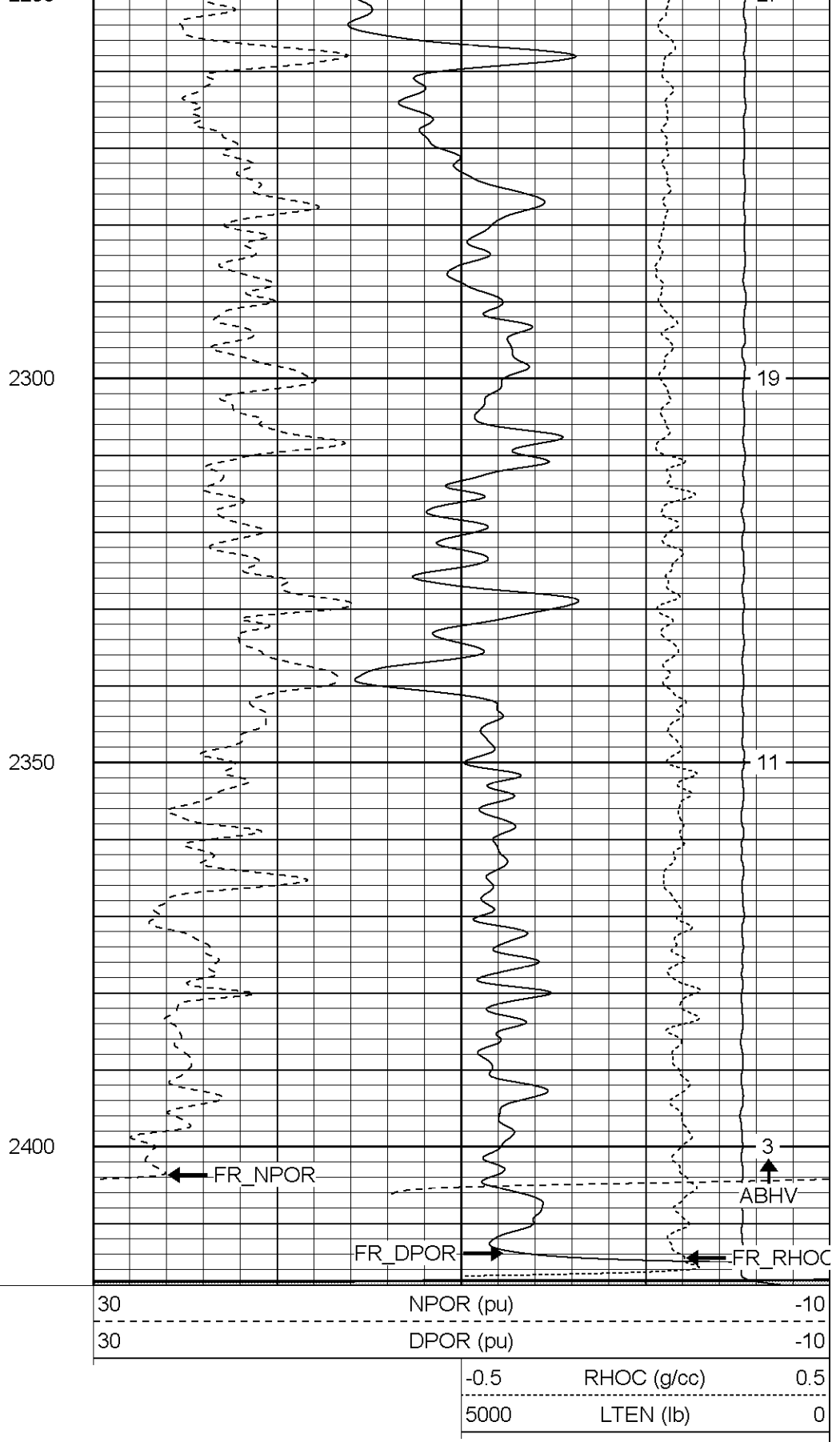
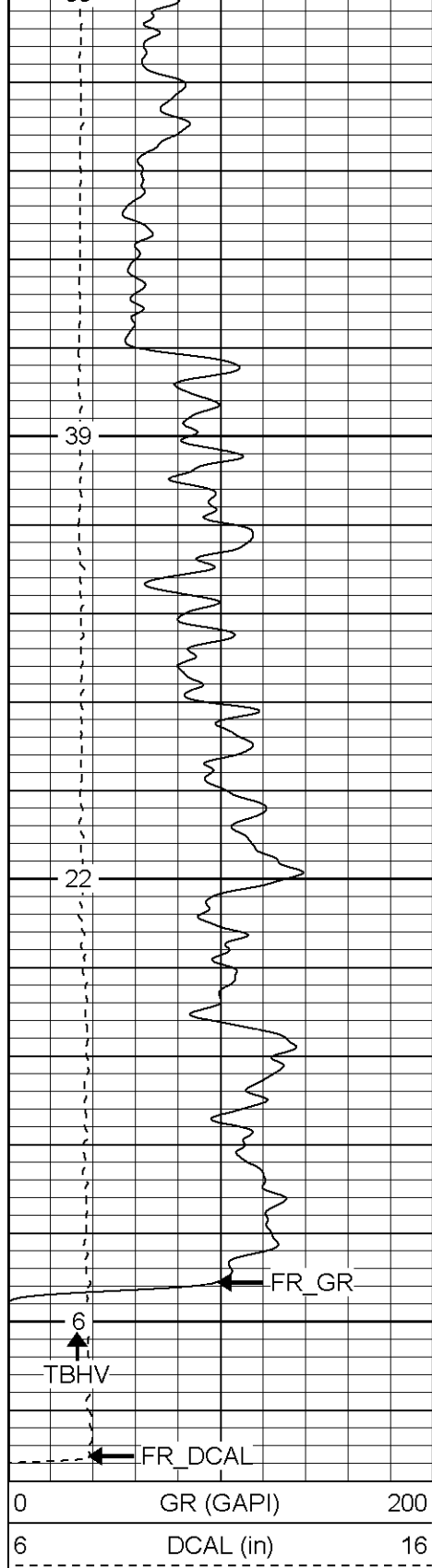








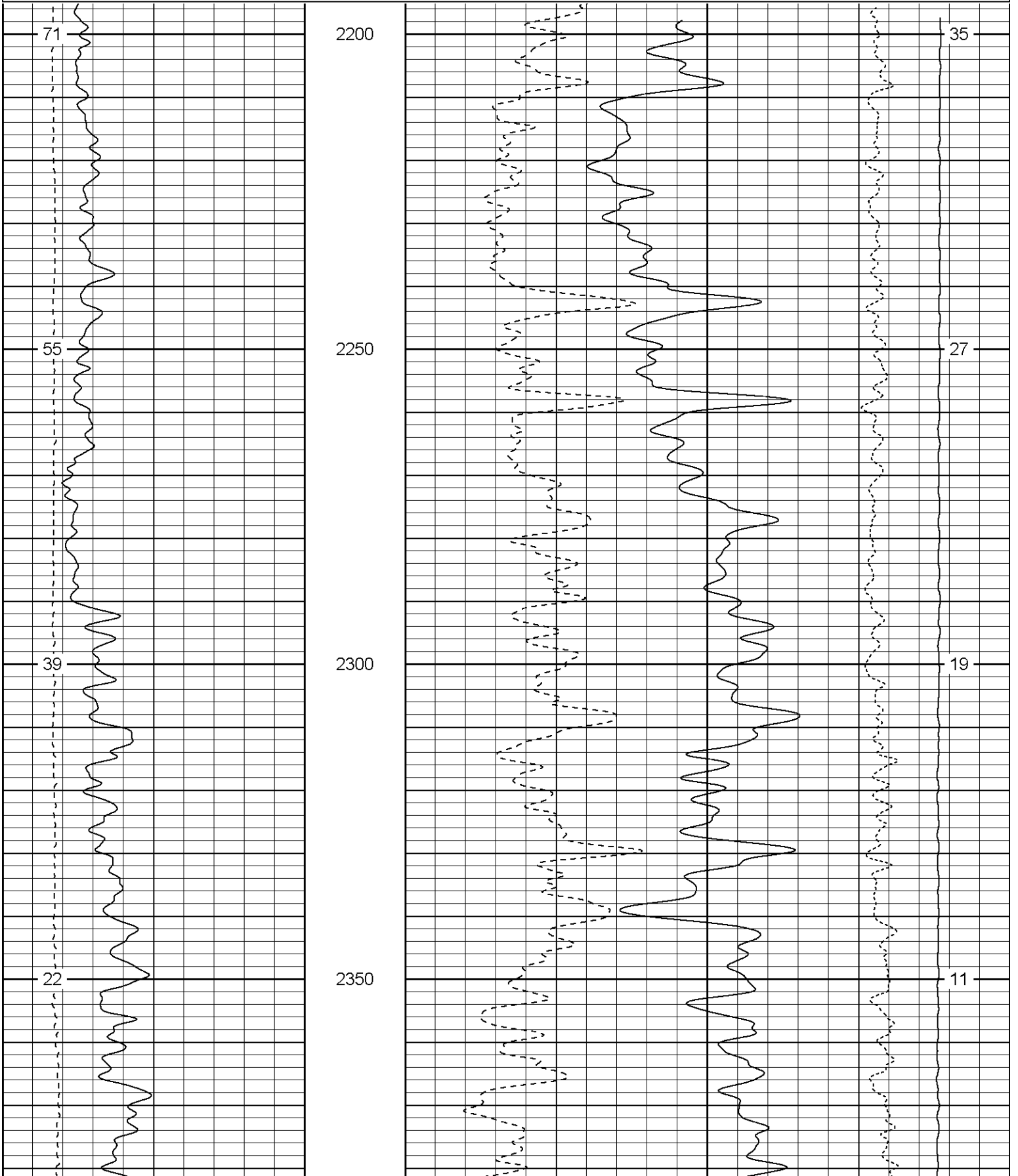


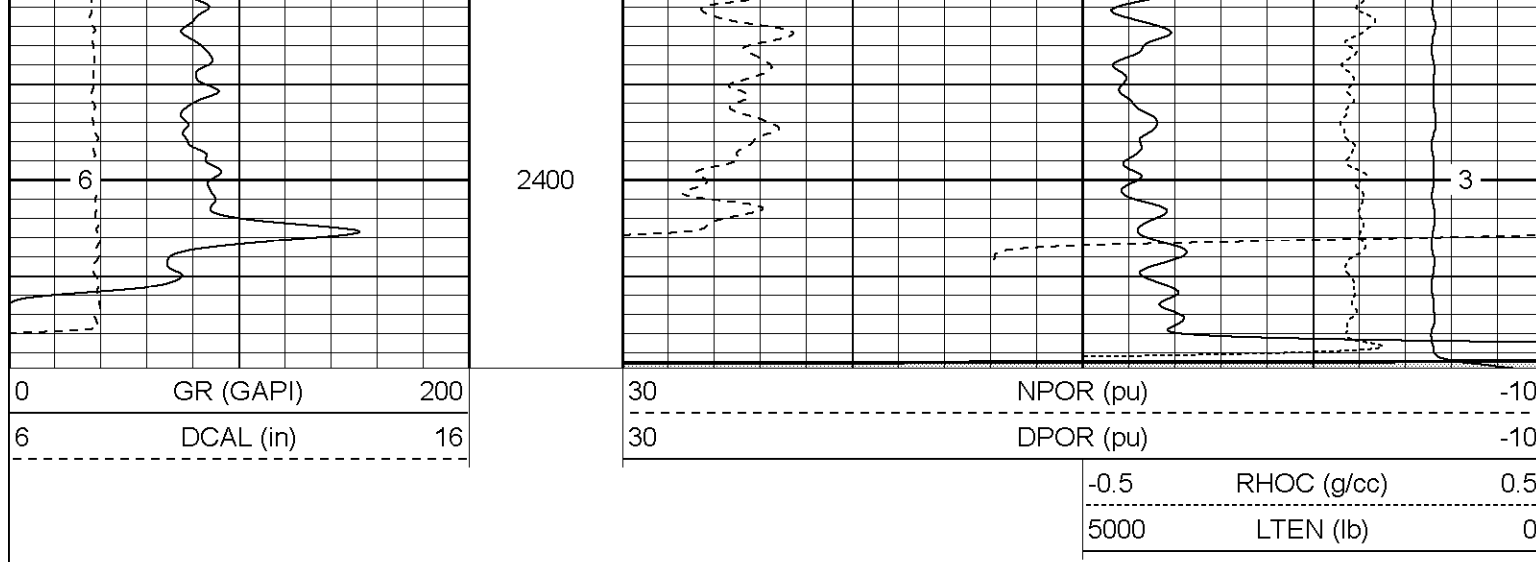


**Patterson**

**Repeat Section**

0	GR (GAPI)	200	30	NPOR (pu)	-10	
6	DCAL (in)	16	30	DPOR (pu)	-10	
				-0.5	RHOC (g/cc)	0.5
				5000	LTEN (lb)	0



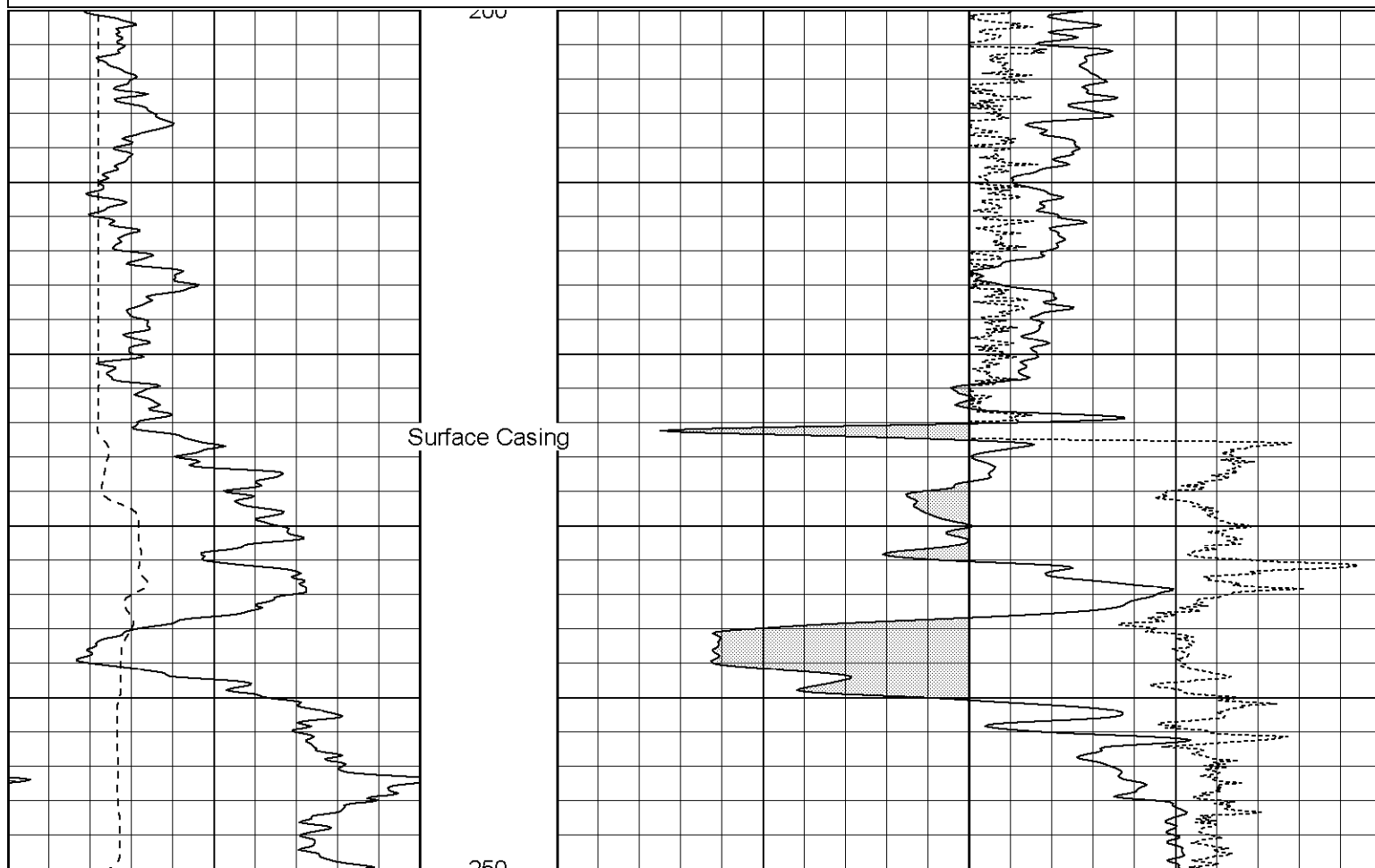


**Patterson**

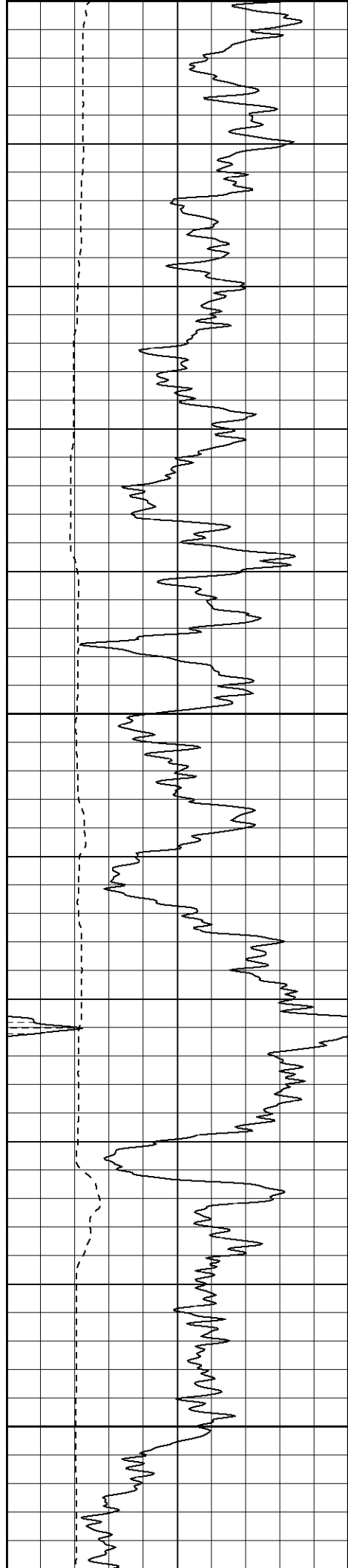
# High Resolution Pass

Database File: xtoac05-04.db  
 Dataset Pathname: pass5.3  
 Presentation Format: cdlhr  
 Dataset Creation: Thu Jul 13 07:37:17 2006 by Calc Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:120

0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16	-0.5	RHOC (g/cc)	0.5



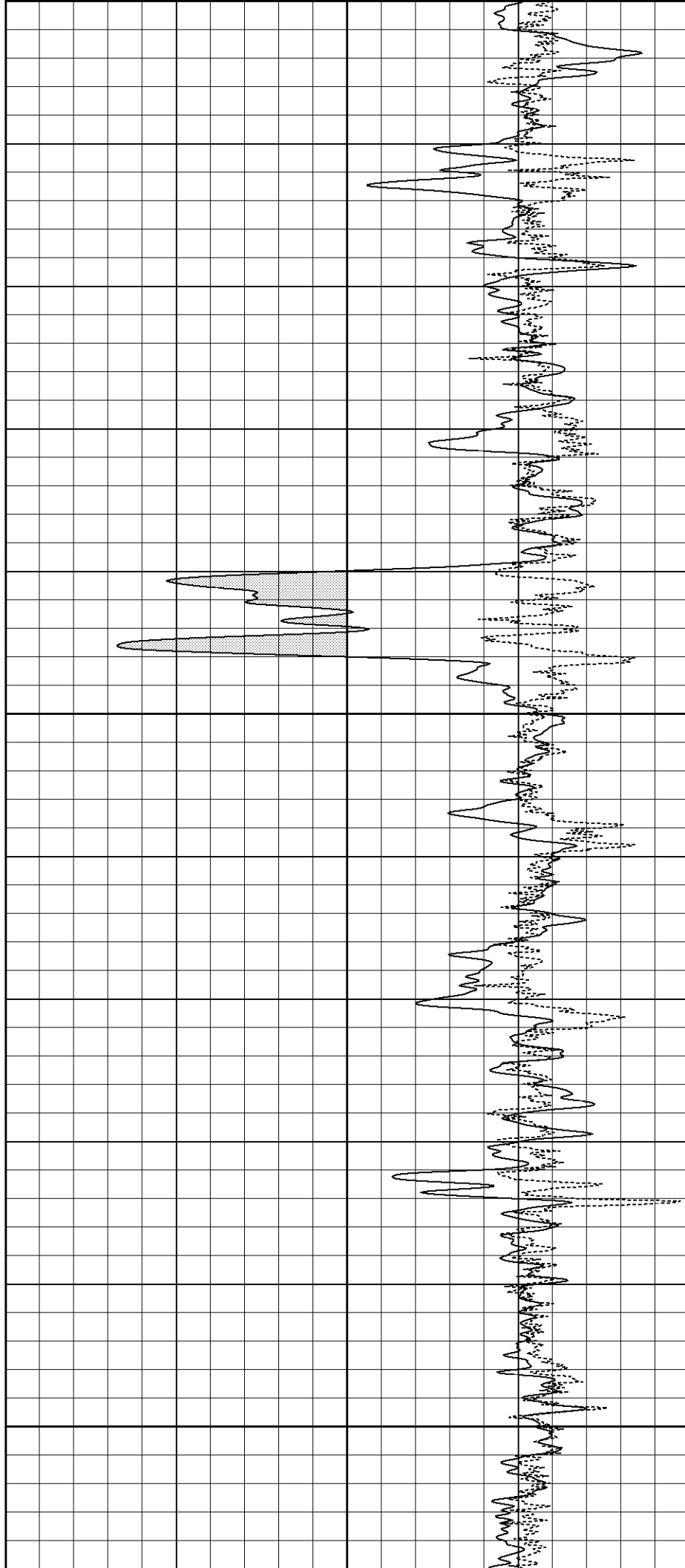


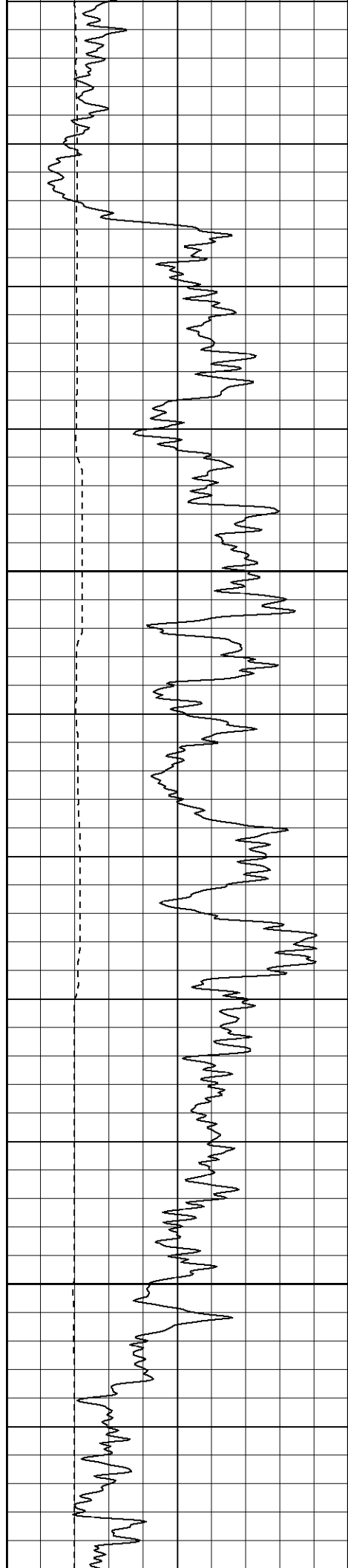


250

300

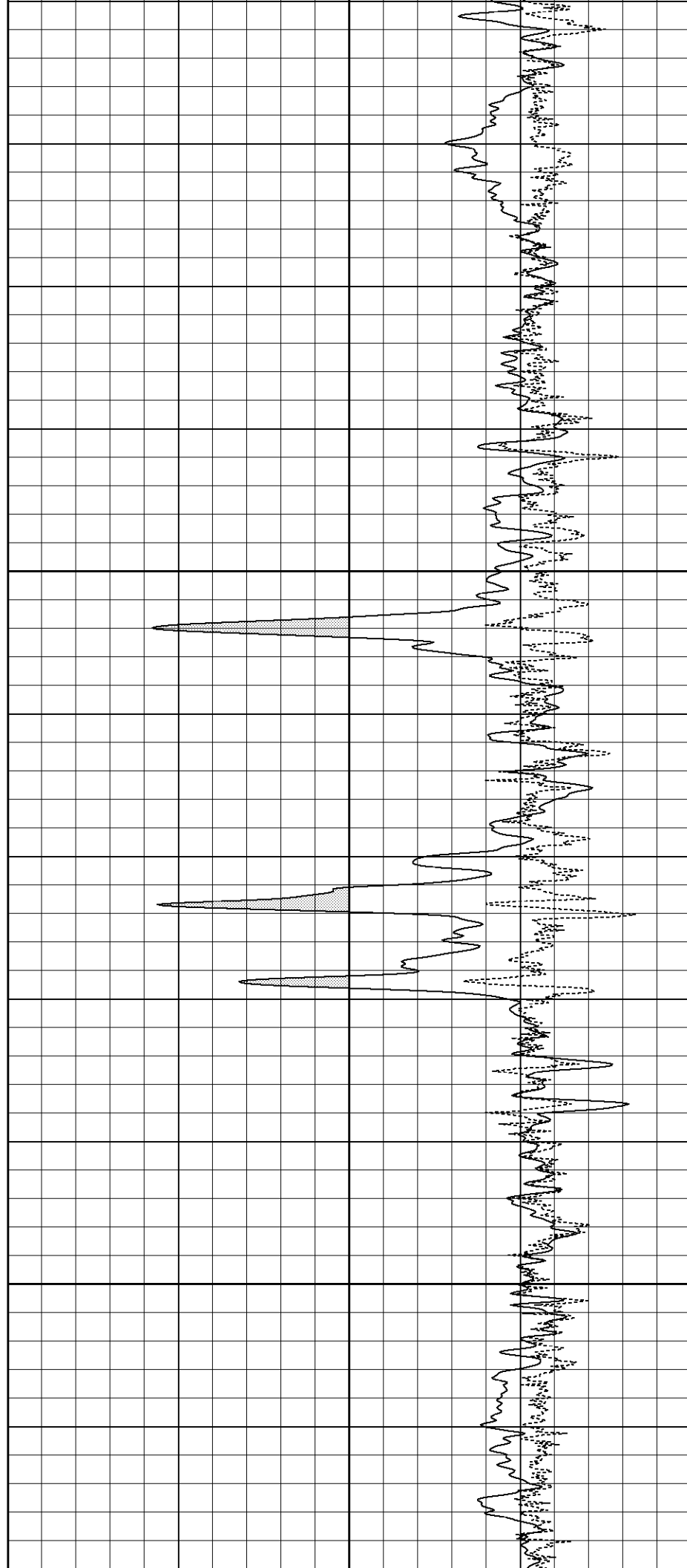
350

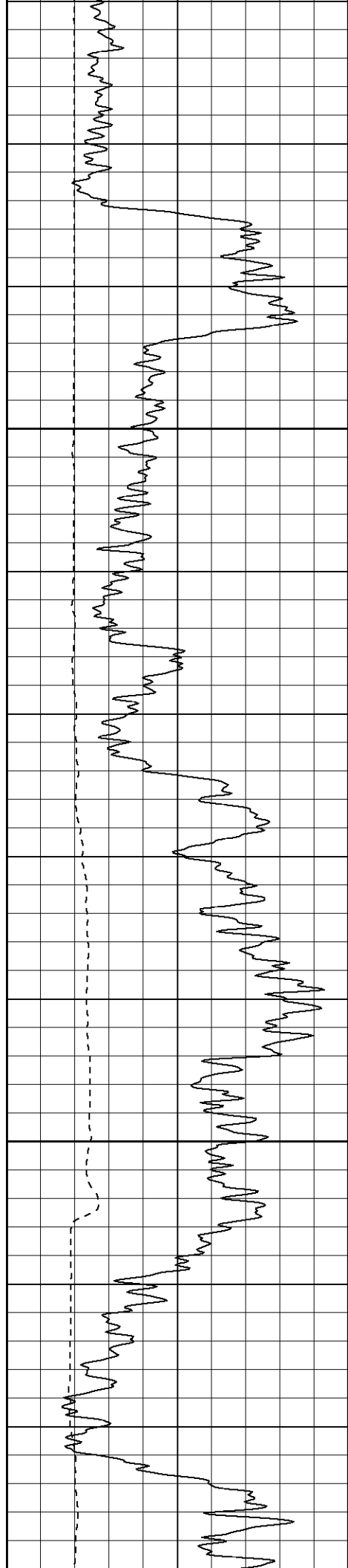




400

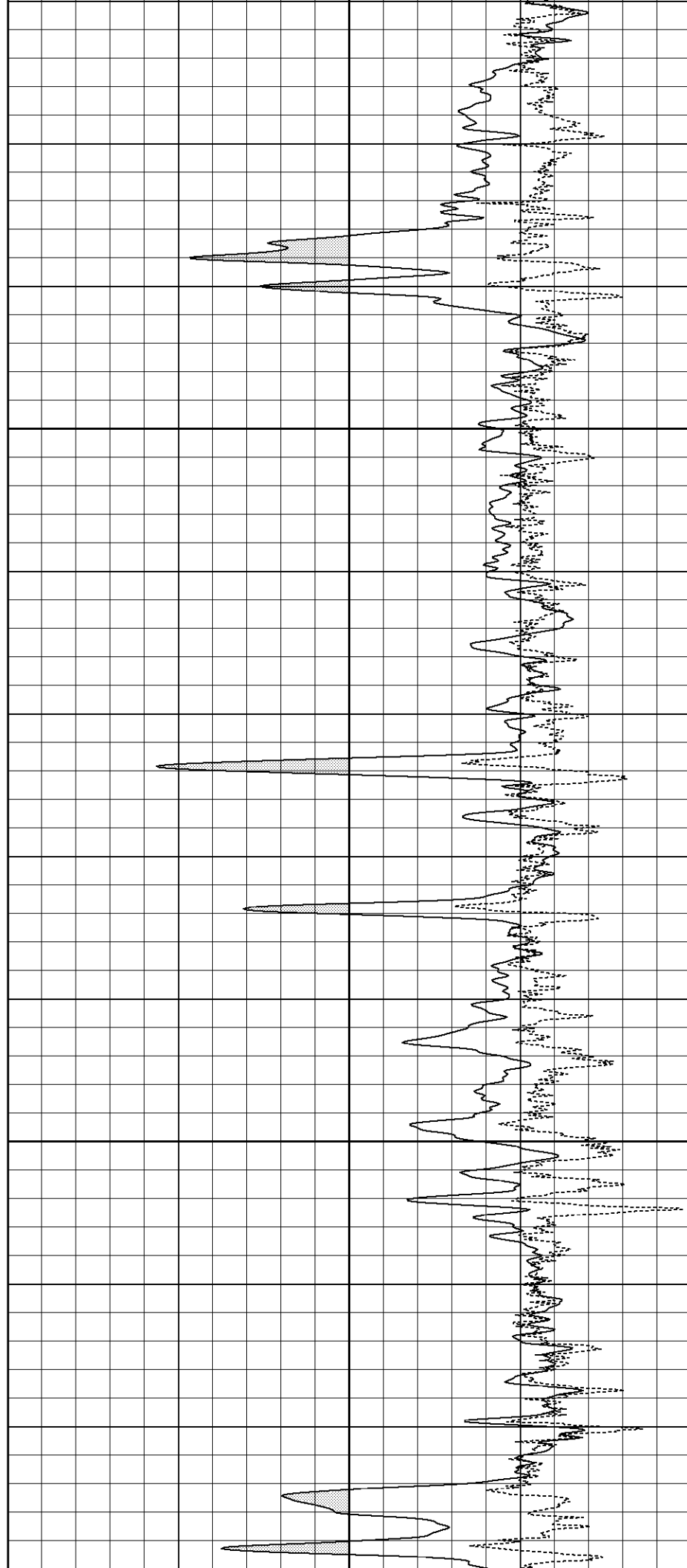
450

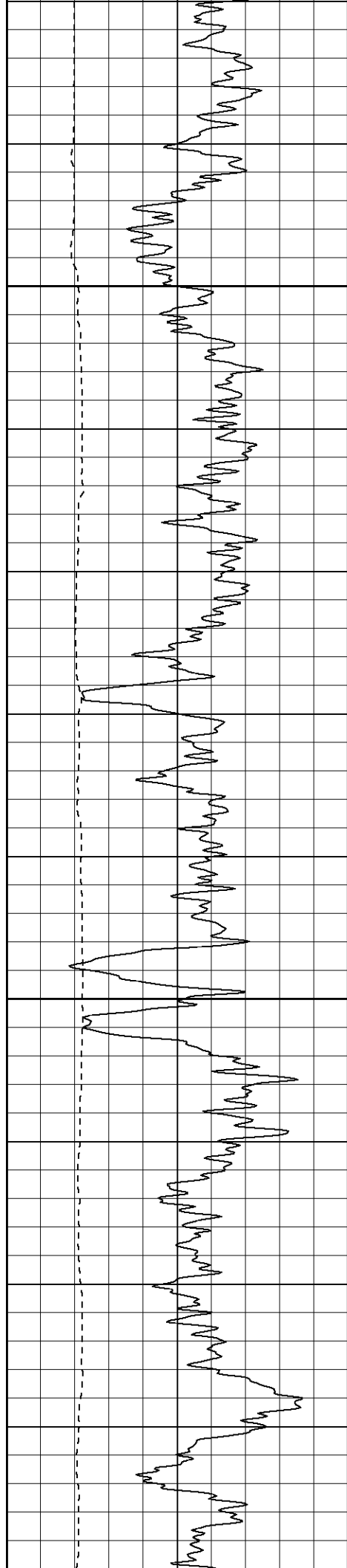




500

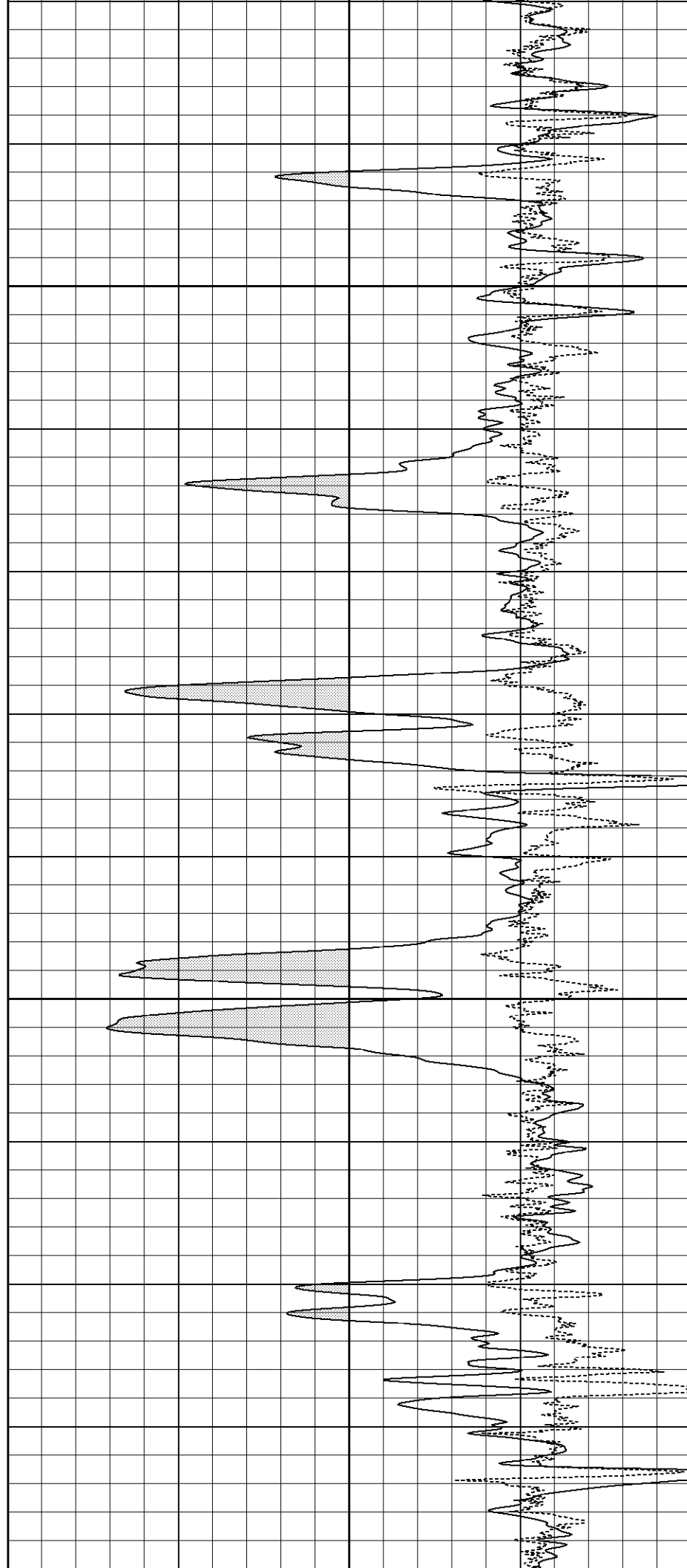
550

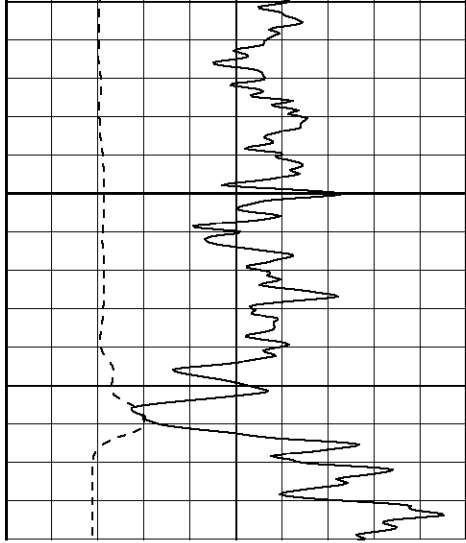




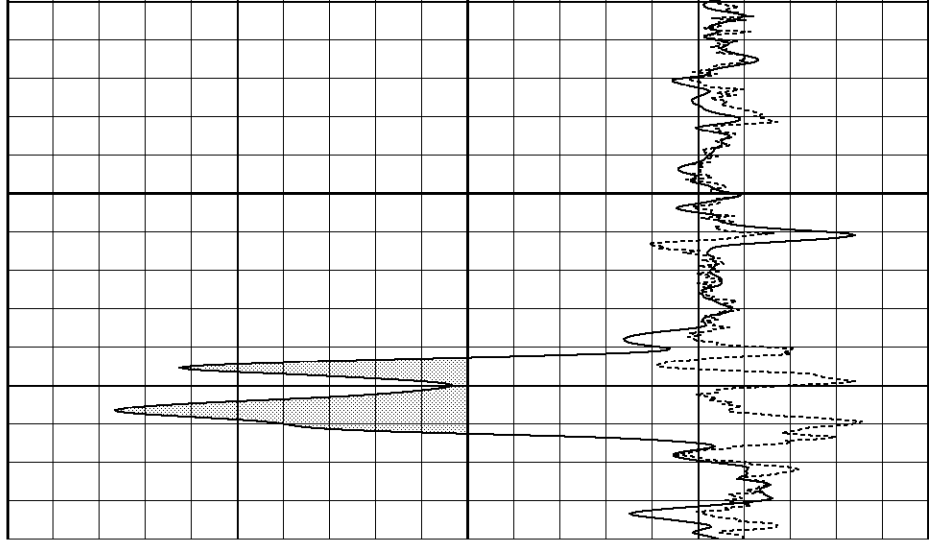
600

650





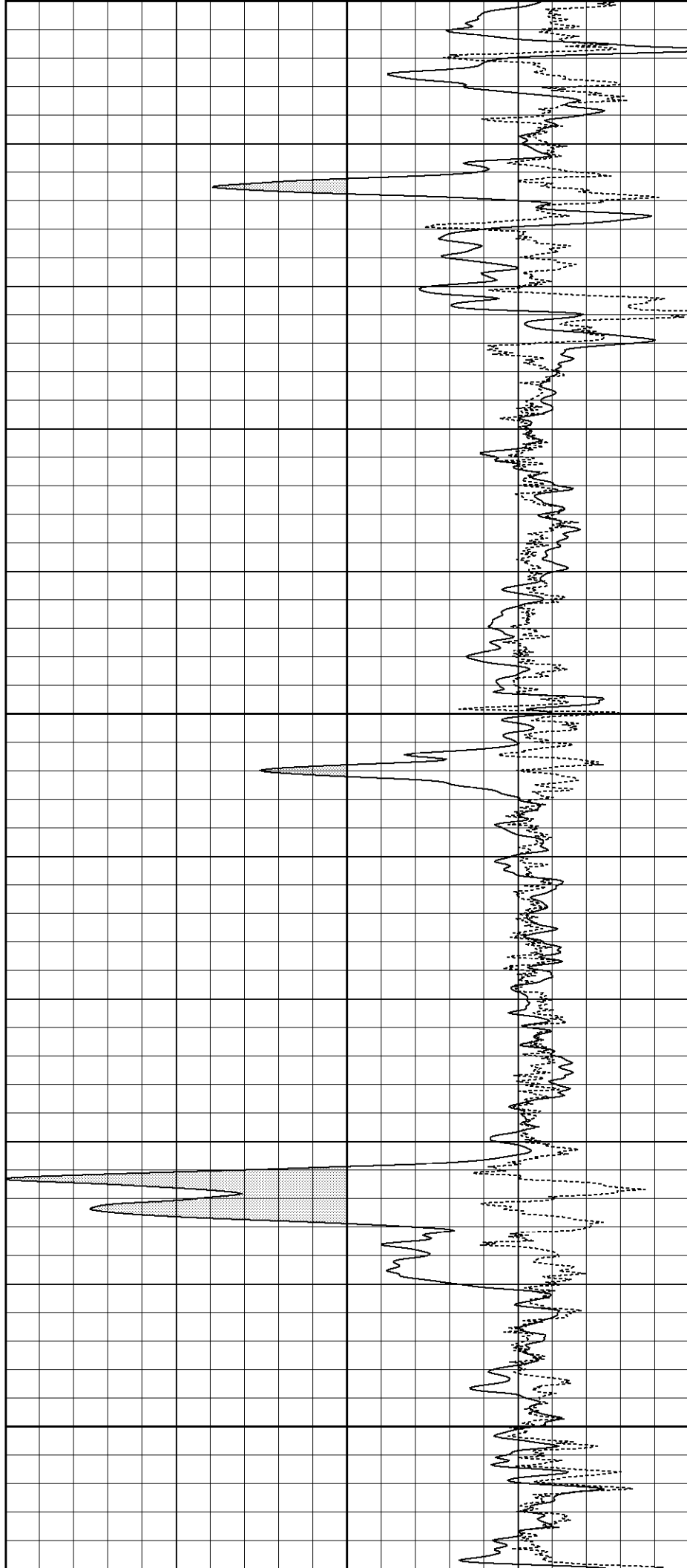
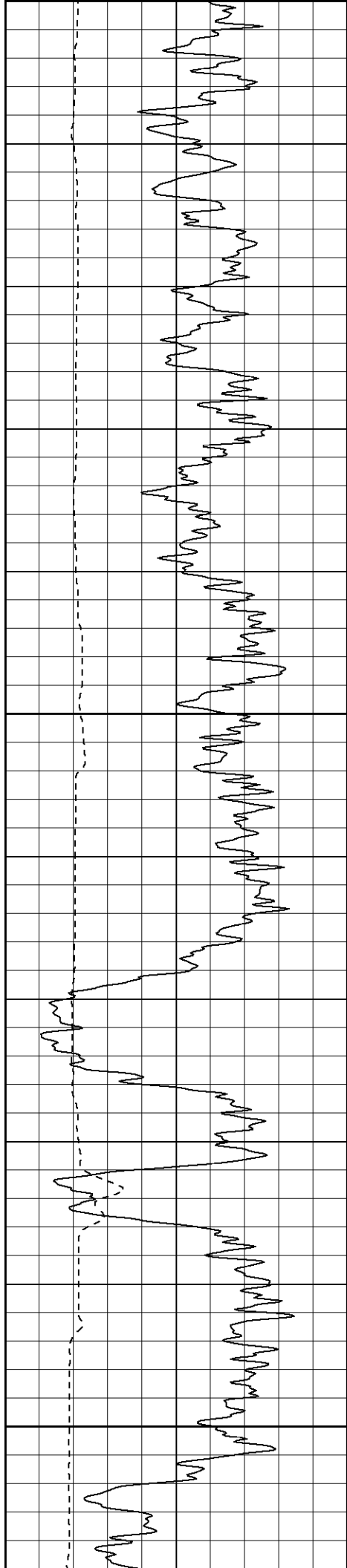
700

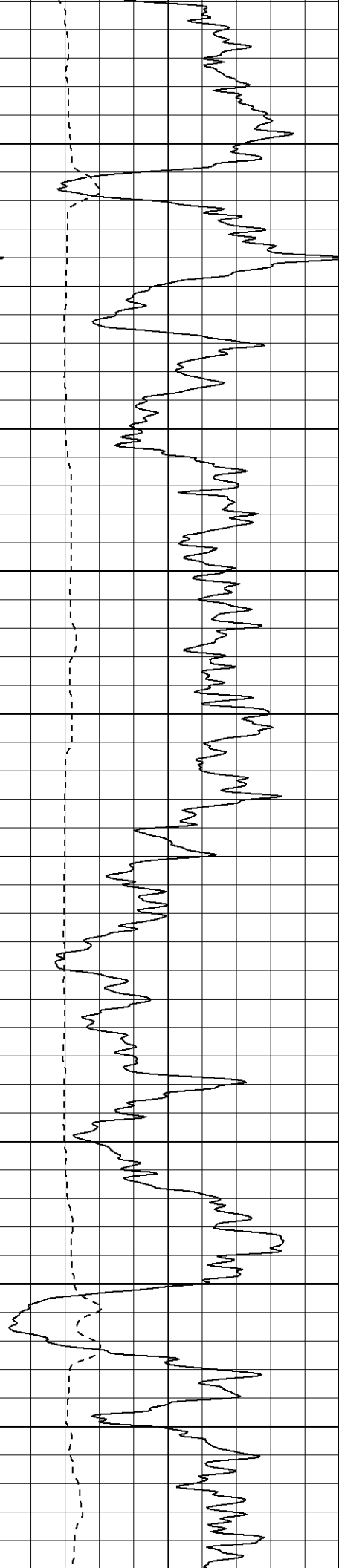


800

850

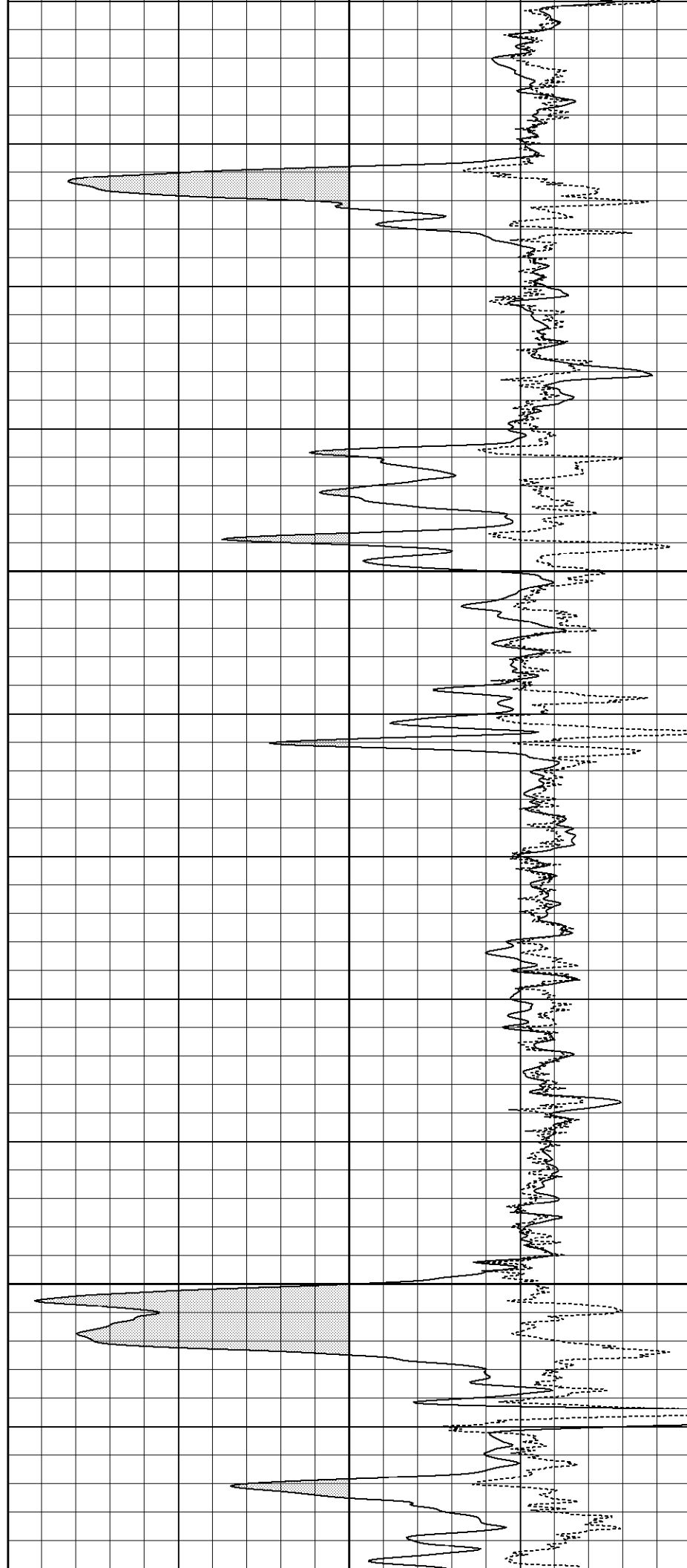
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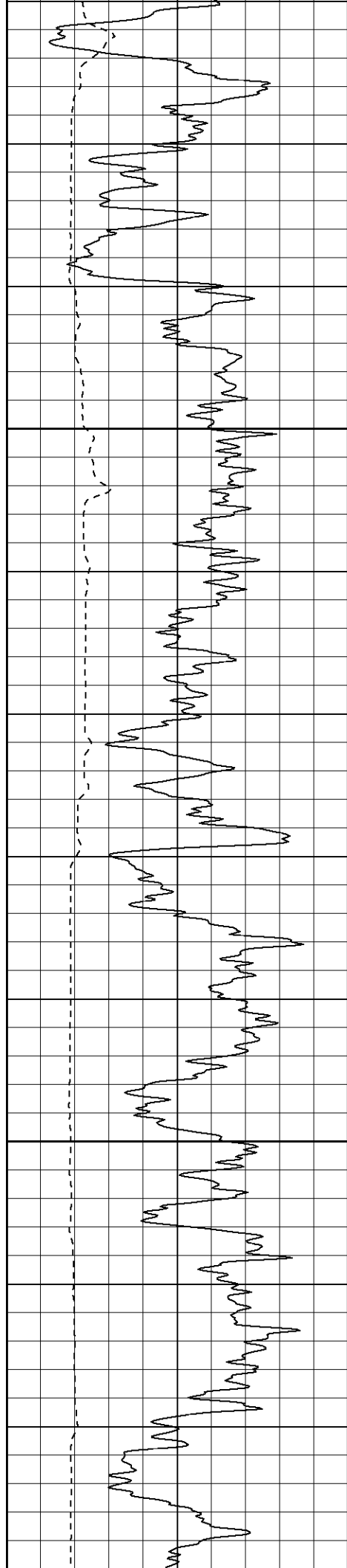




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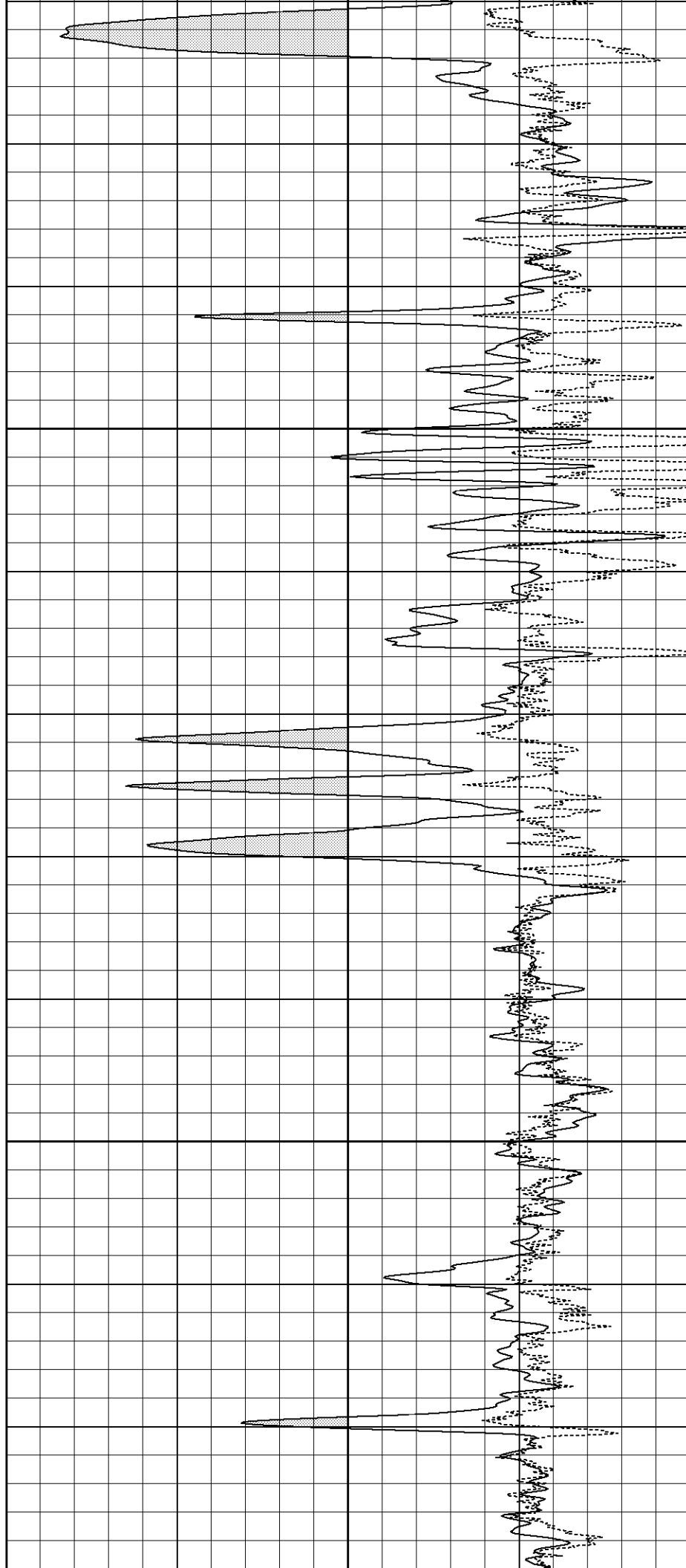
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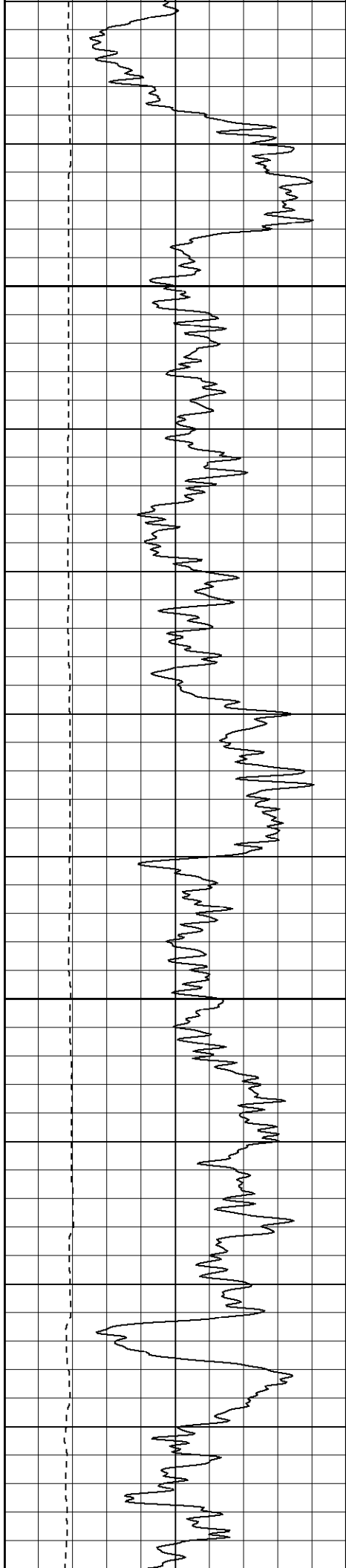


1050

1100

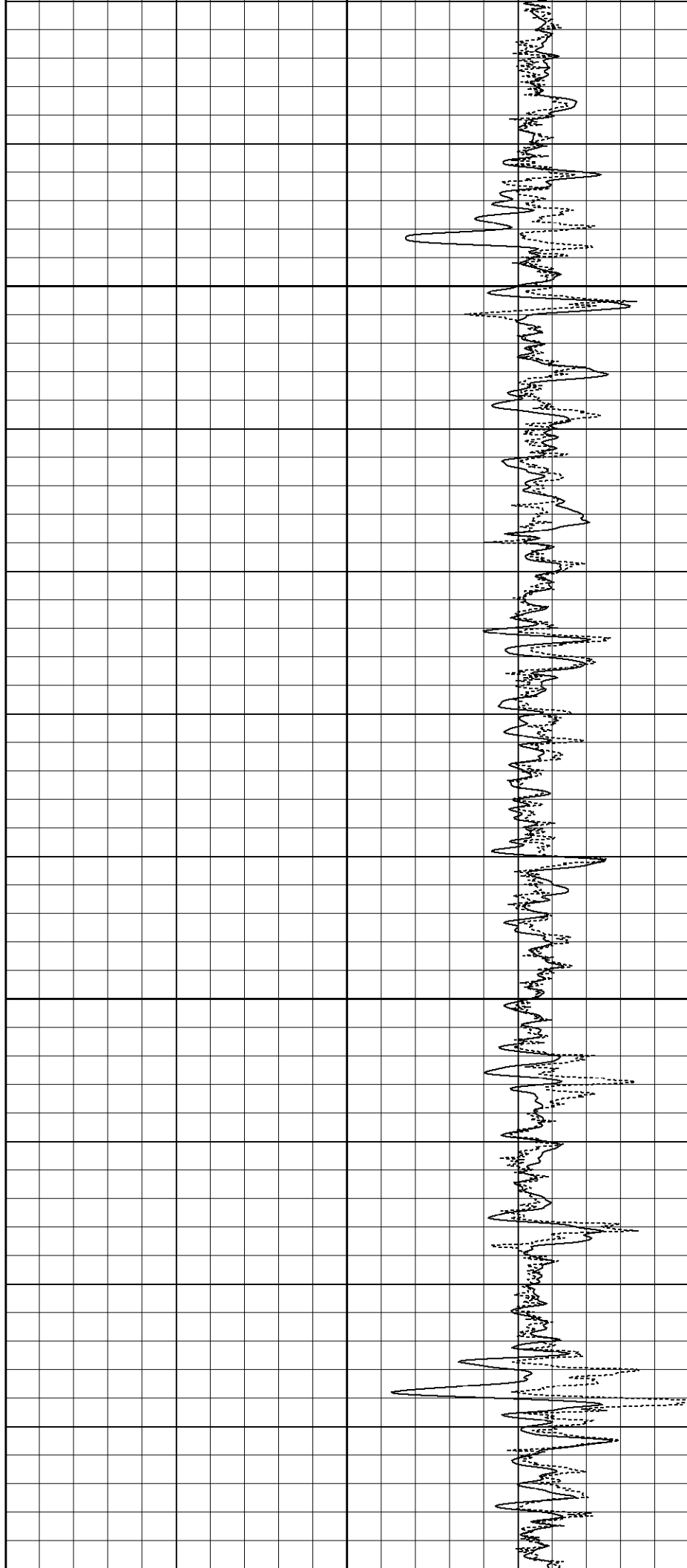


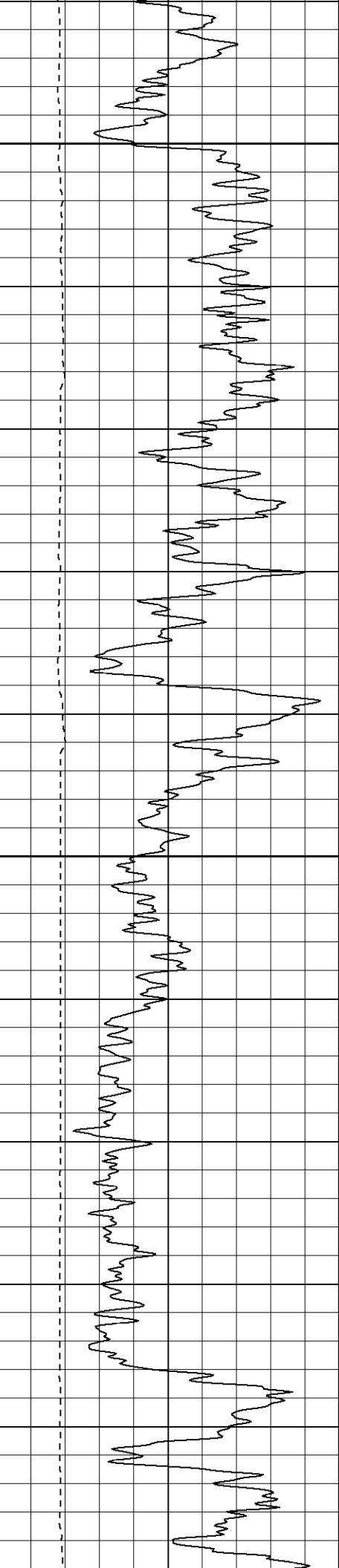




1150

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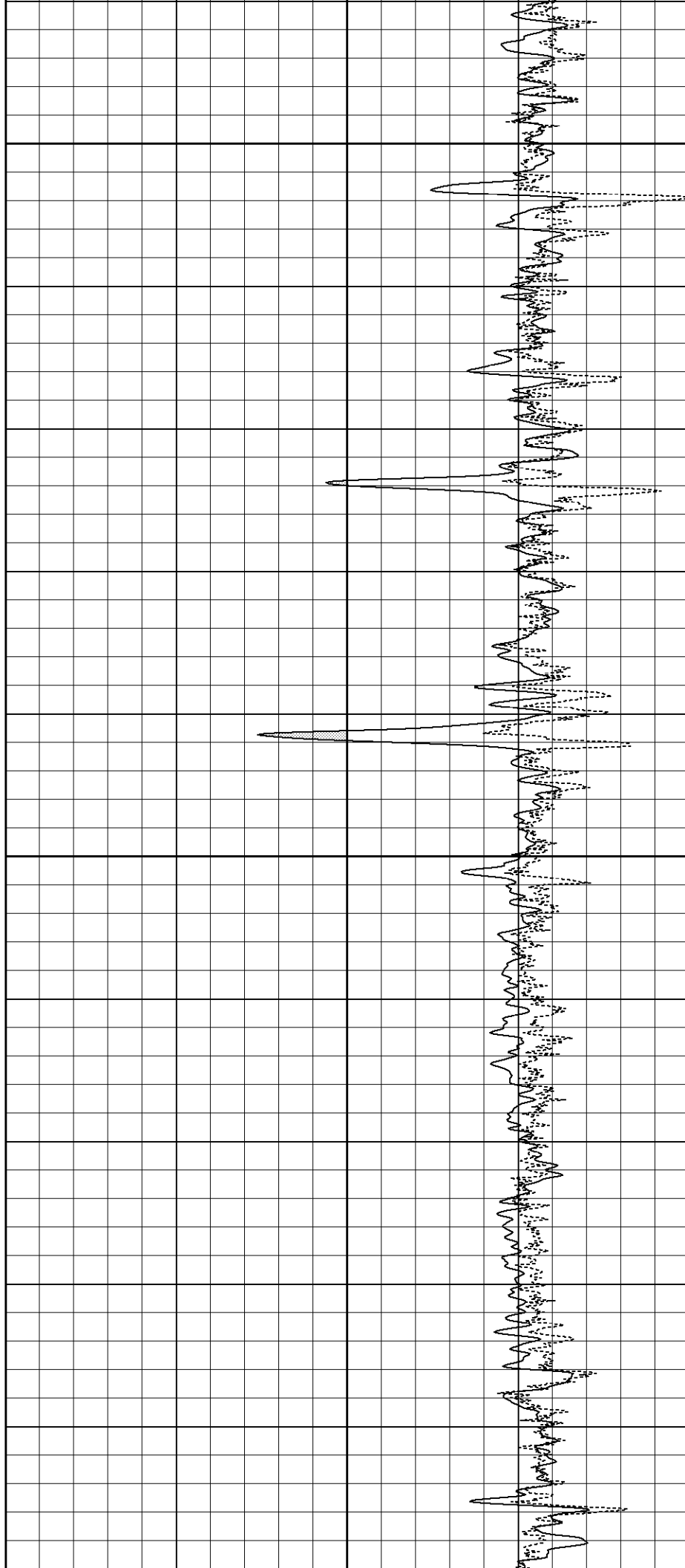




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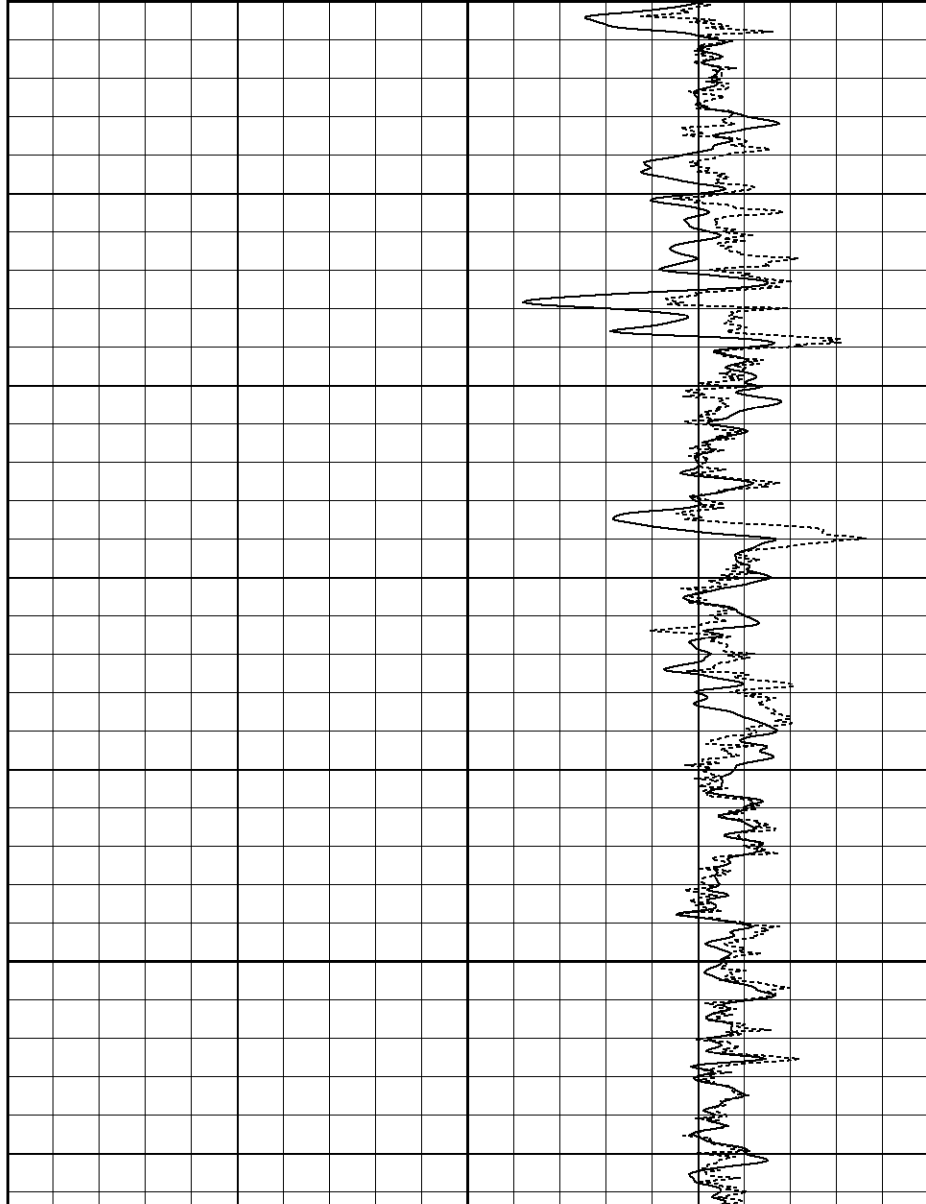
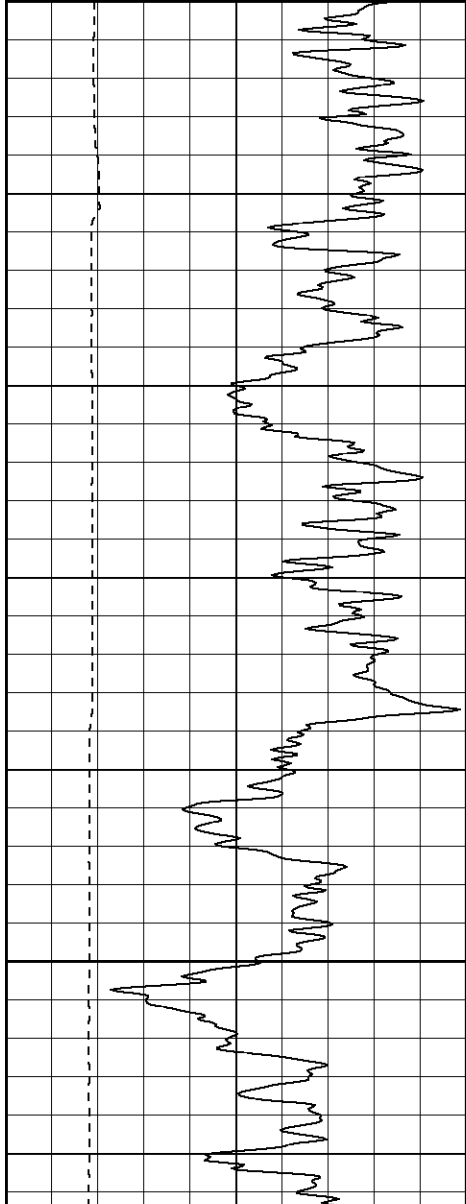
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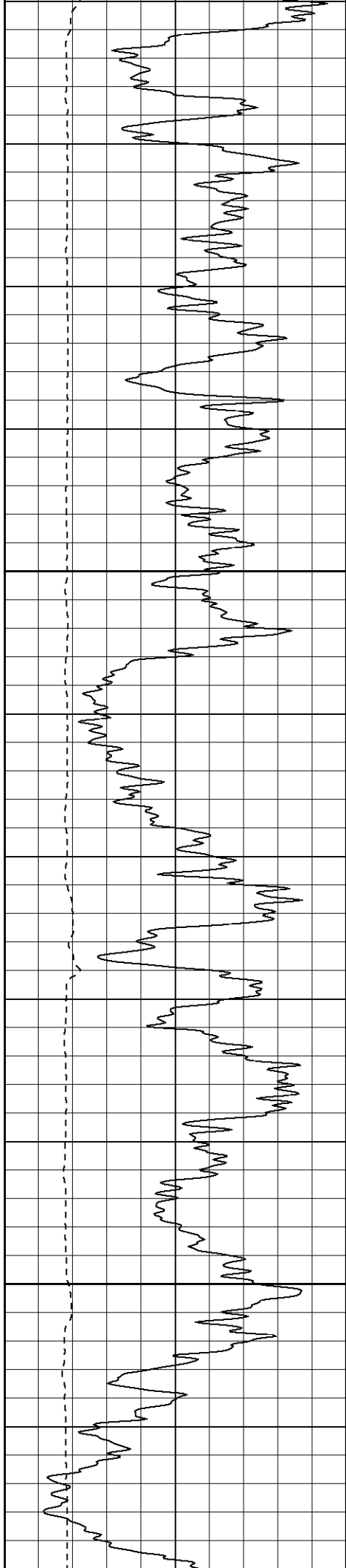
1250



1330

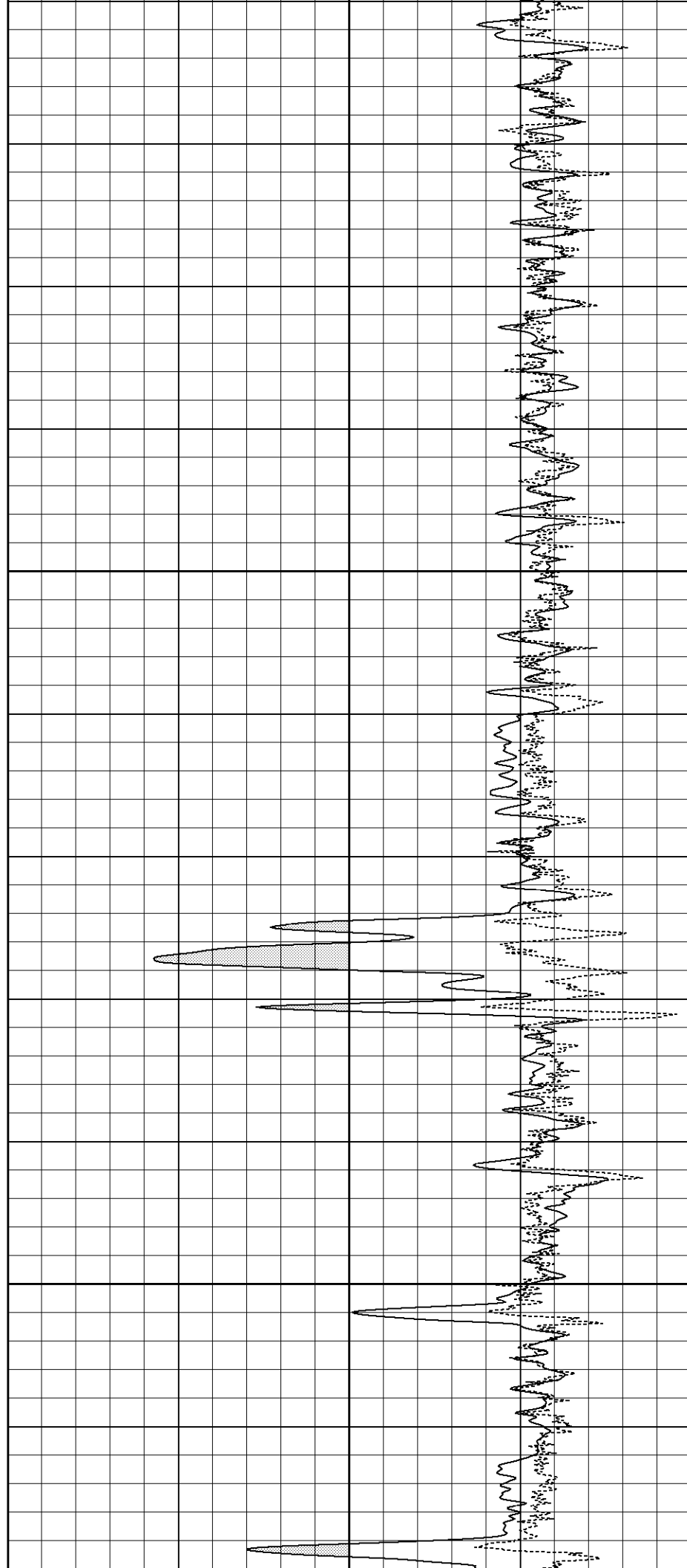
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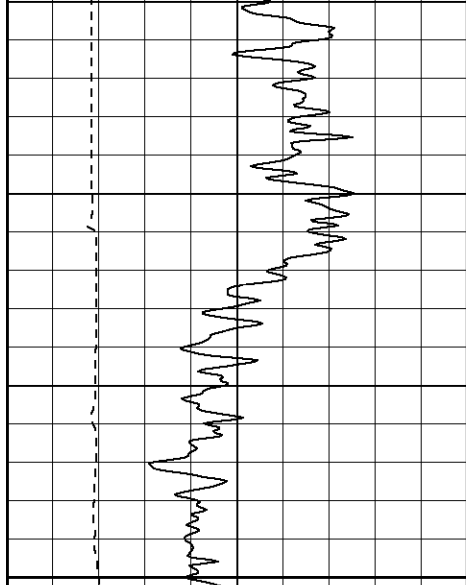




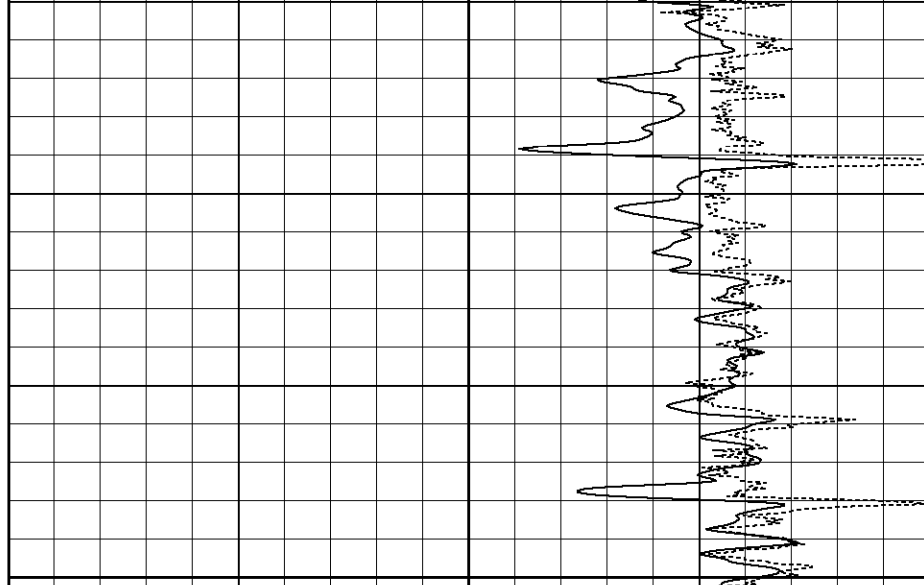
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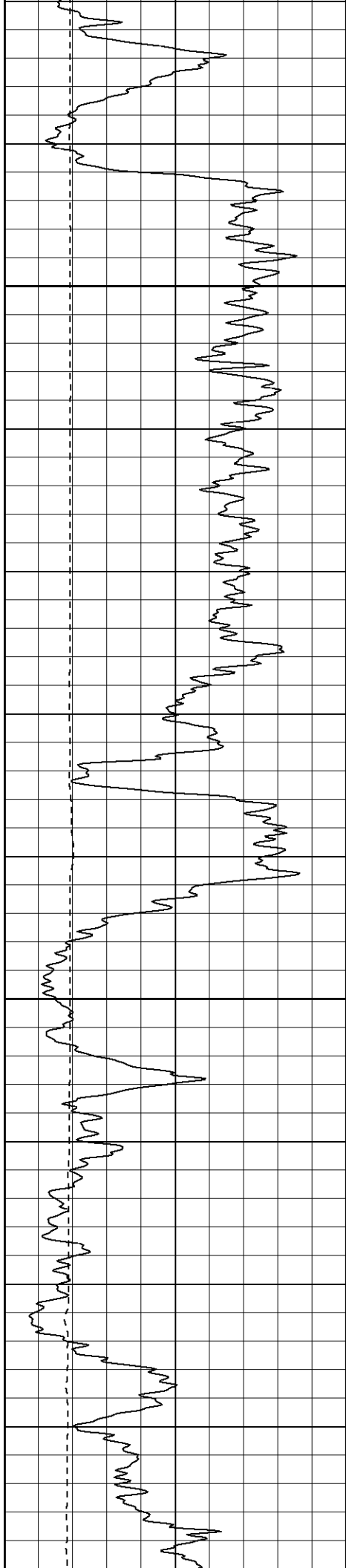
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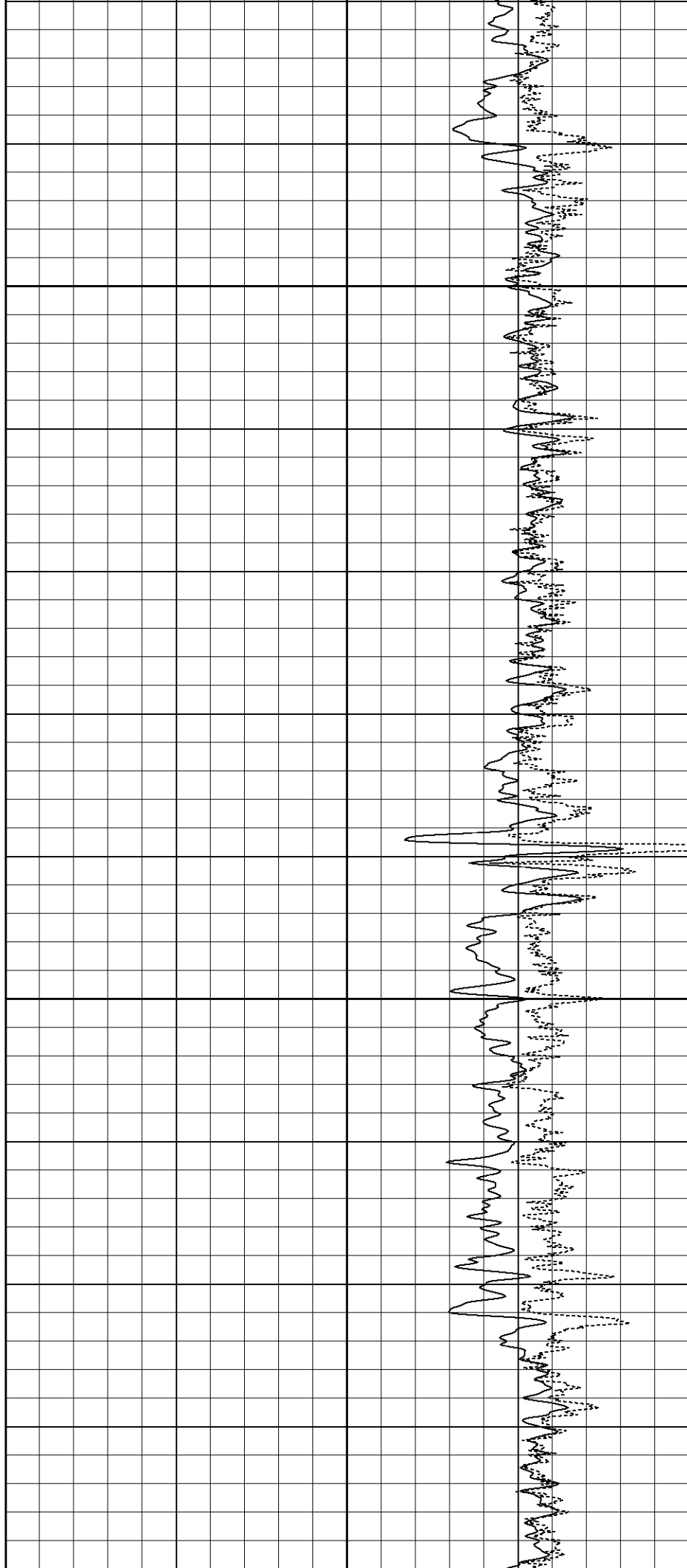
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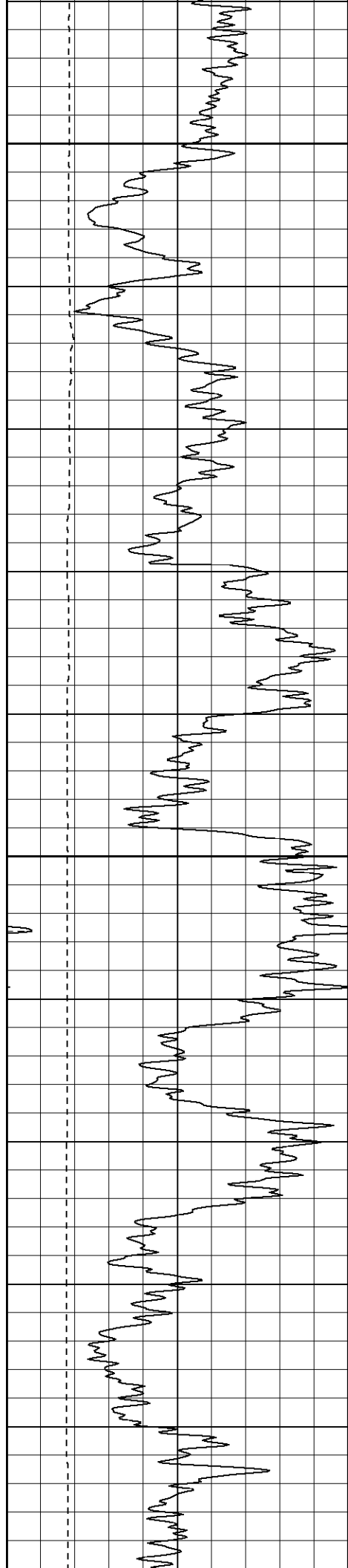




1700

1750

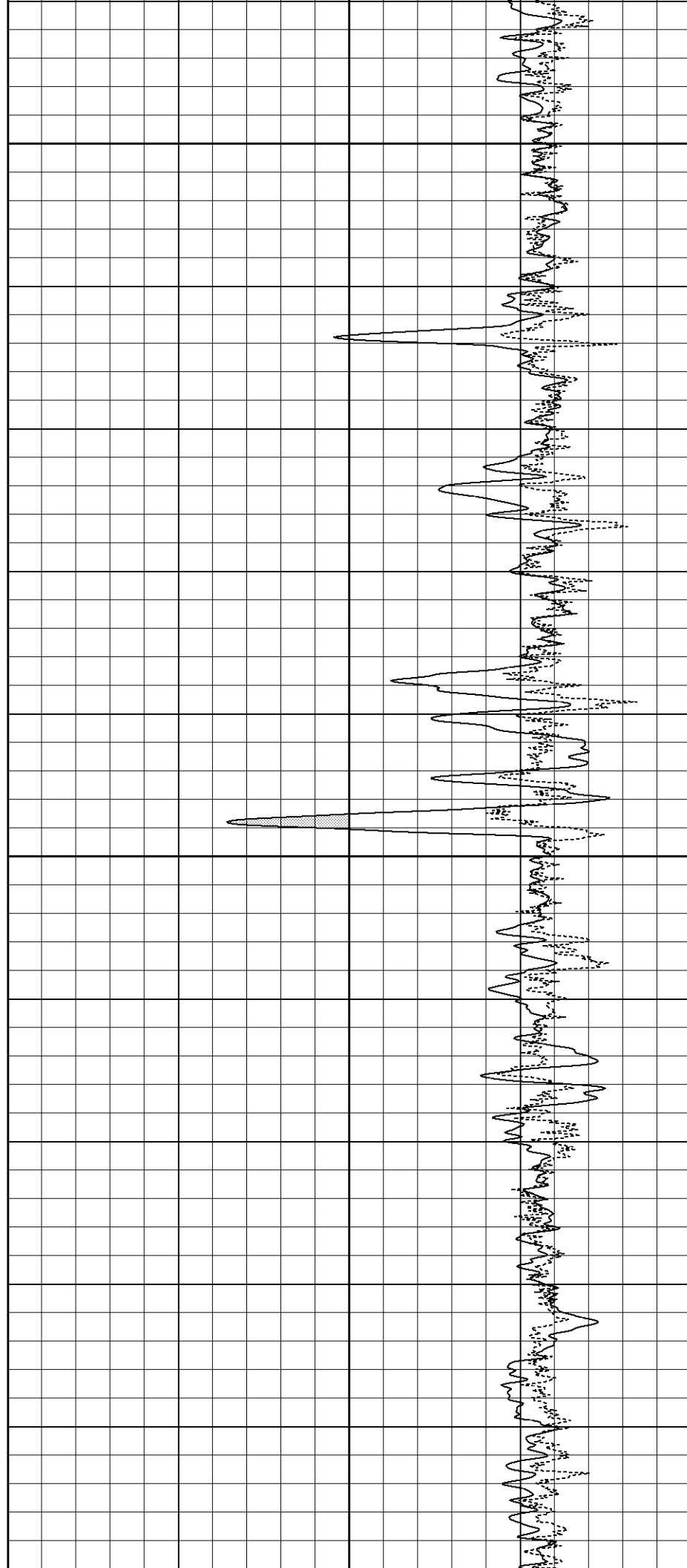




1800

1850

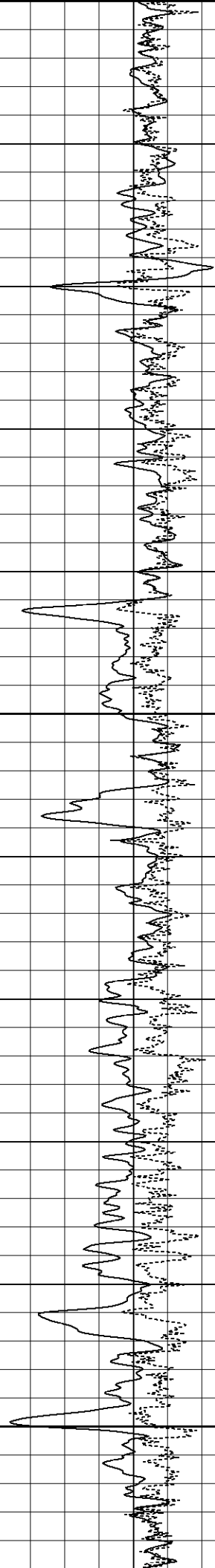
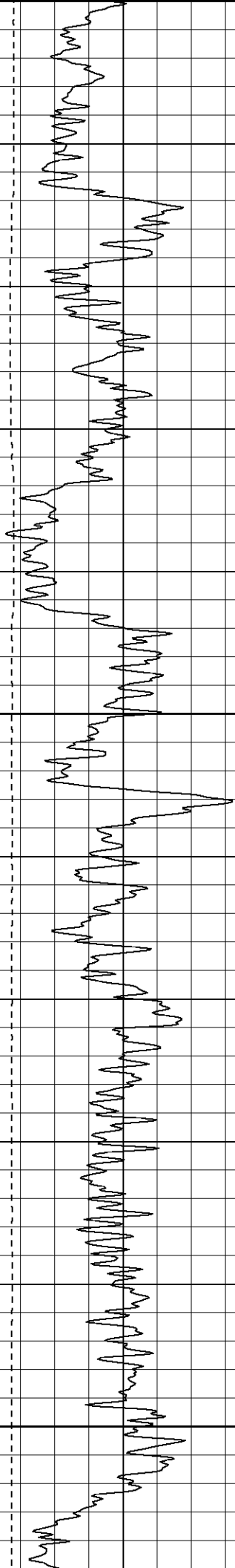
1900



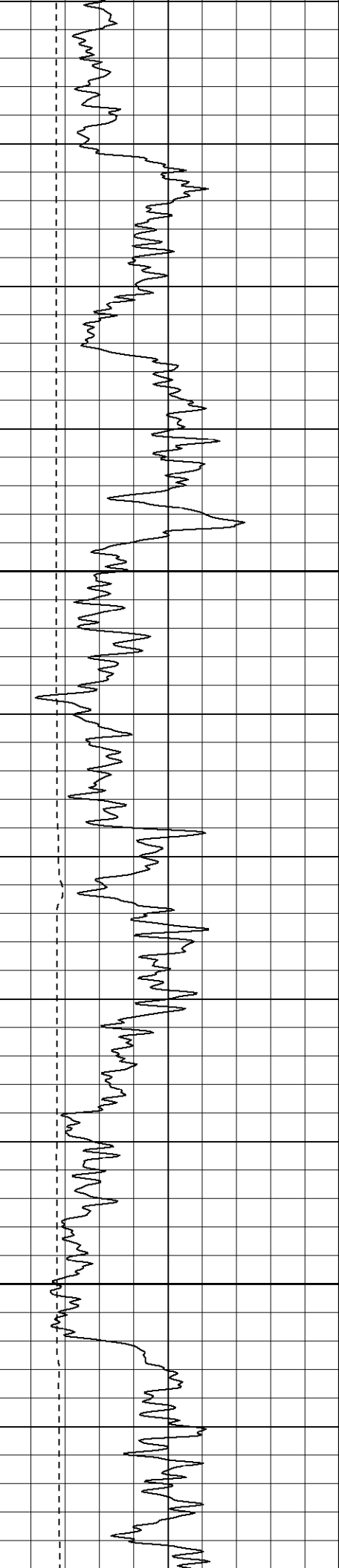
1900

1950

2000

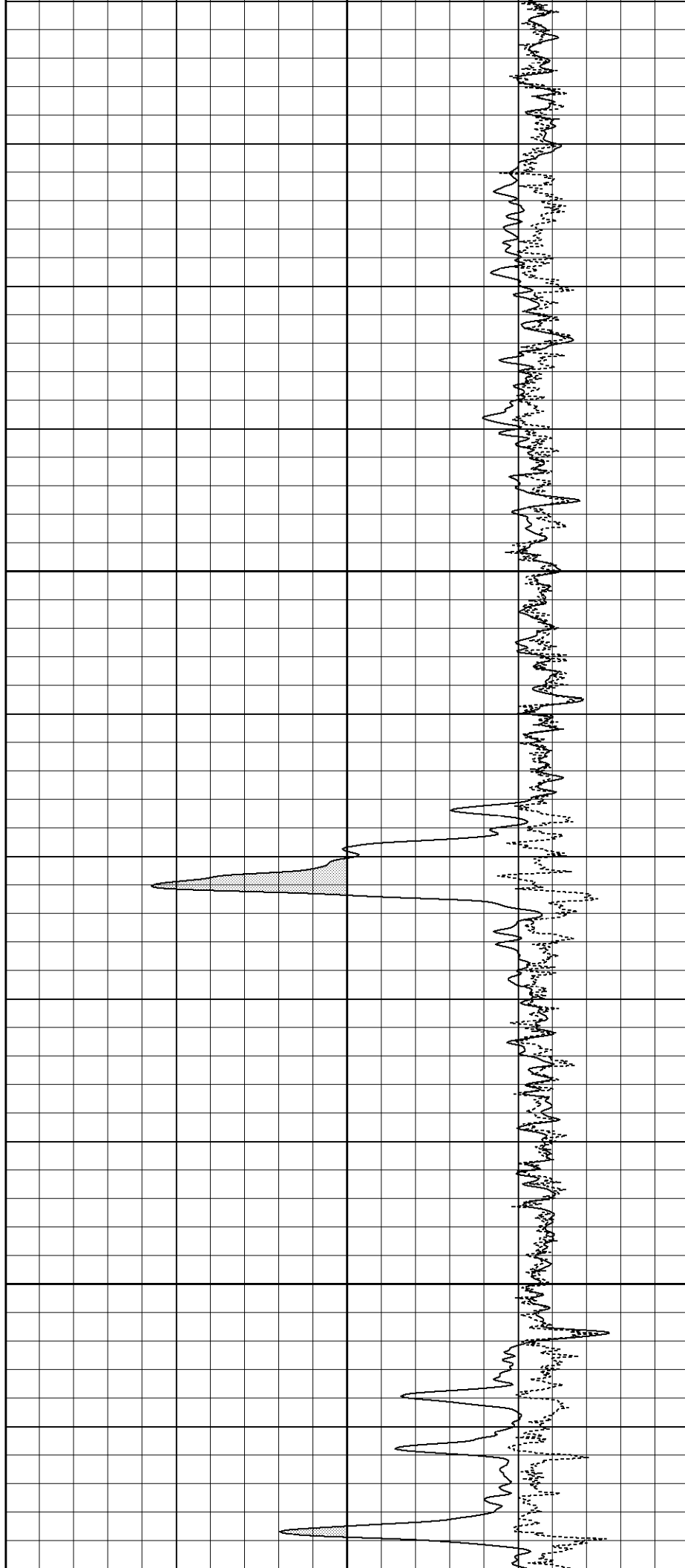






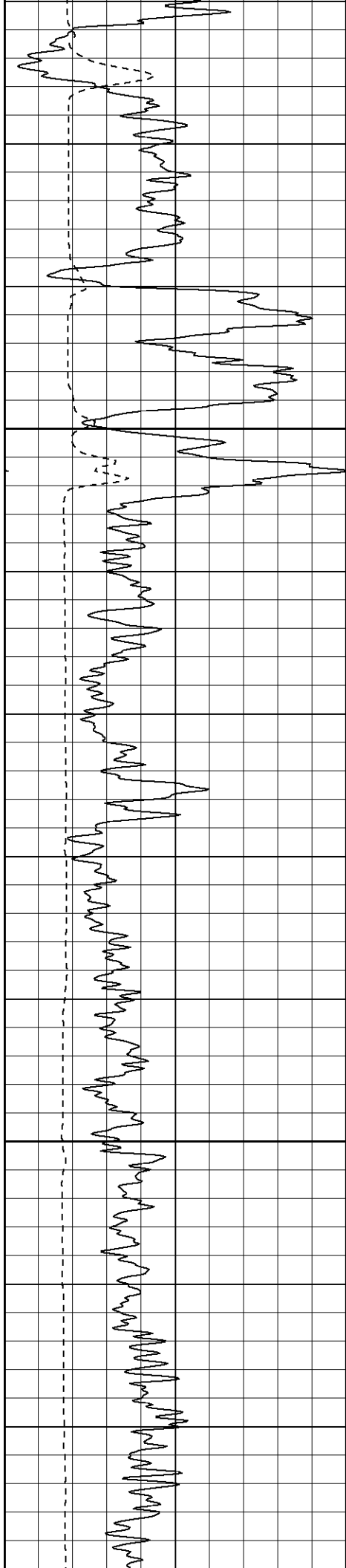
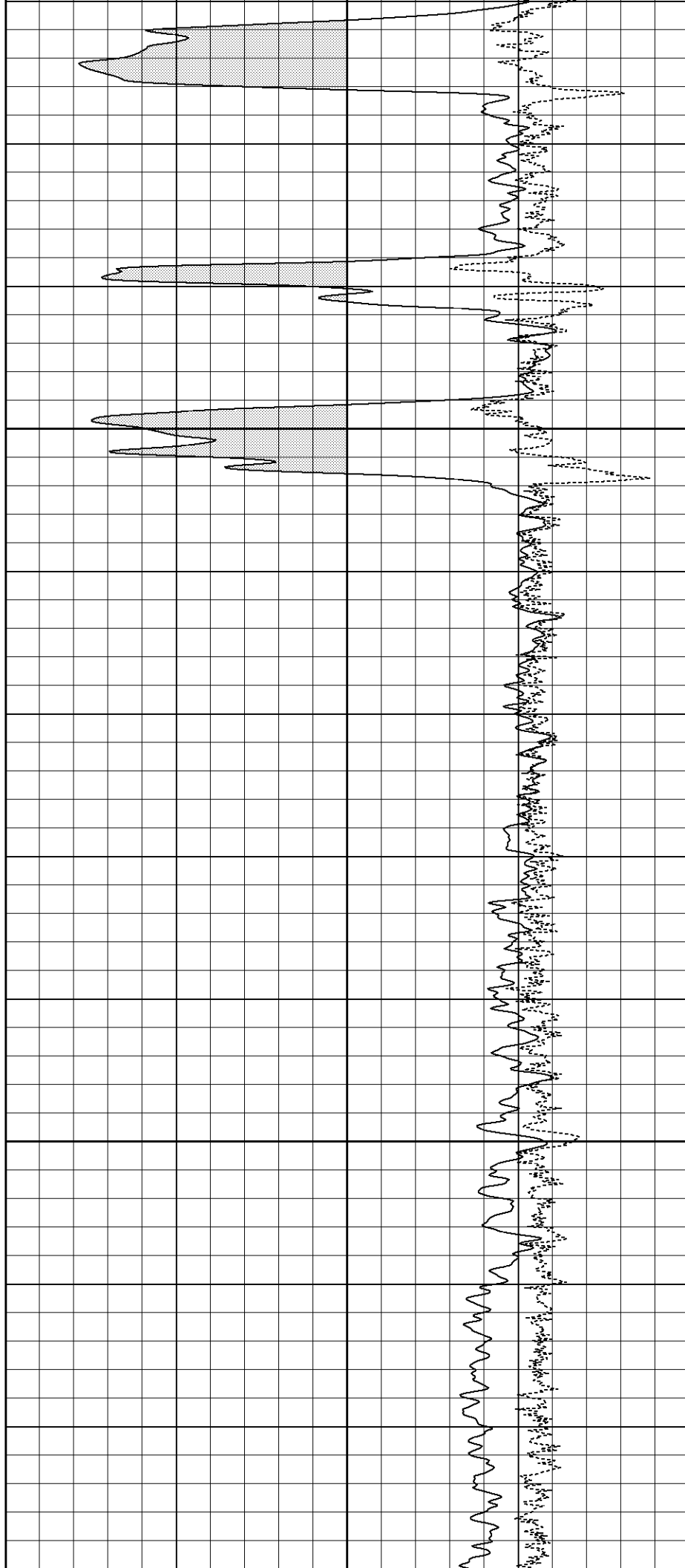
2050

2100



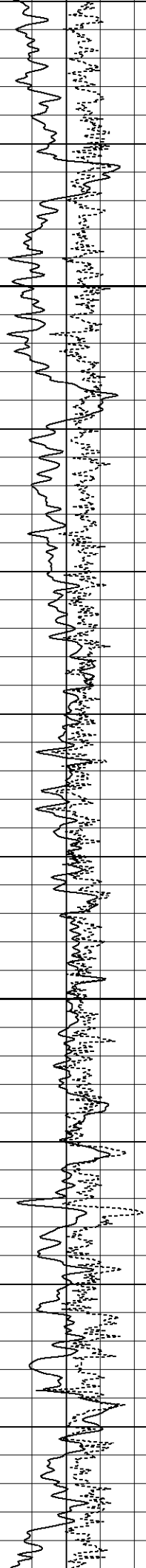
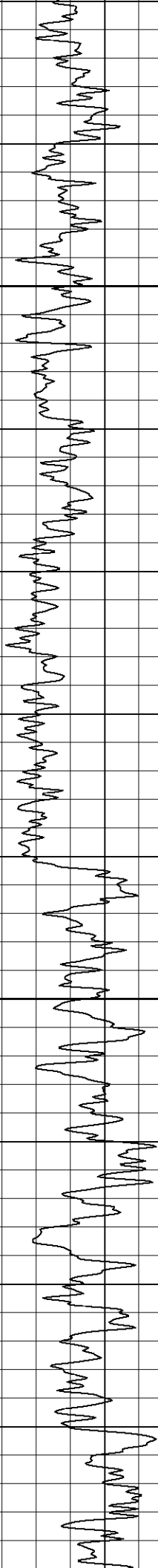
2150

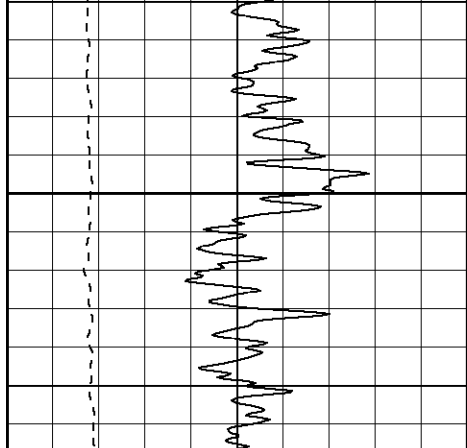
2200



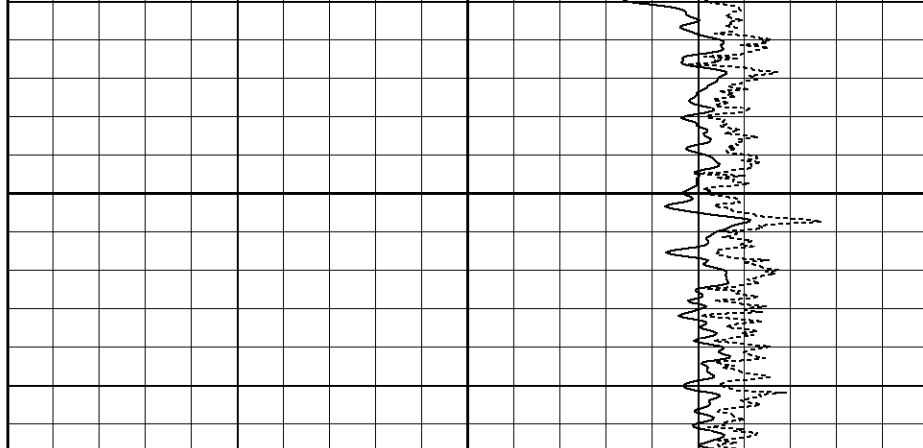
2250

2300





2350



Spine Angle = 74.80

Density/Spine Ratio = 0.564

	Size		Reading	
Small Ring	7.85	in	4.39	V
Large Ring	14.00	in	8.81	V

## Gamma Ray Calibration Report

Serial Number:	2119	
Tool Model:	O	
Performed:	Tue Jun 13 22:35:32 2006	
Calibrator Value:	170.0	GAPI
Background Reading:	42.6	cps
Calibrator Reading:	139.0	cps
Sensitivity:	0.7000	GAPI/cps

## Neutron Calibration Report

Serial Number:	5138	
Tool Model:	G	
Performed:	Tue Jun 27 08:34:07 2006	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps