

Company	XTO Energy Inc.	Company	XTO Energy Inc.
Well	Apache Canyon 18-13	Well	Apache Canyon 18-13
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API # : 05 071 08823 00 338' FSL & 1115' FWL	Other Services	dil
Permanent Datum	SEC 18 TWP 34S RGE 67W	Elevation	
Log Measured From	Ground Level	K.B. -----	
Drilling Measured From	Ground Level	D.F. -----	
		G.L. 8087'	
Date	08-25-06		
Run Number	Two		
Depth Driller	2580'		
Depth Logger	2567'		
Bottom Logged Interval	2565'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 770'		
Casing Logger	770'		
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	5:30 p.m.		
Time Logger on Bottom	9:00 p.m.		
Maximum Recorded Temperature	116		
Equipment Number	T677		
Location	Trinidad		
Recorded By	L. Smith		
Witnessed By	Mr. Dan Uhl		

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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.

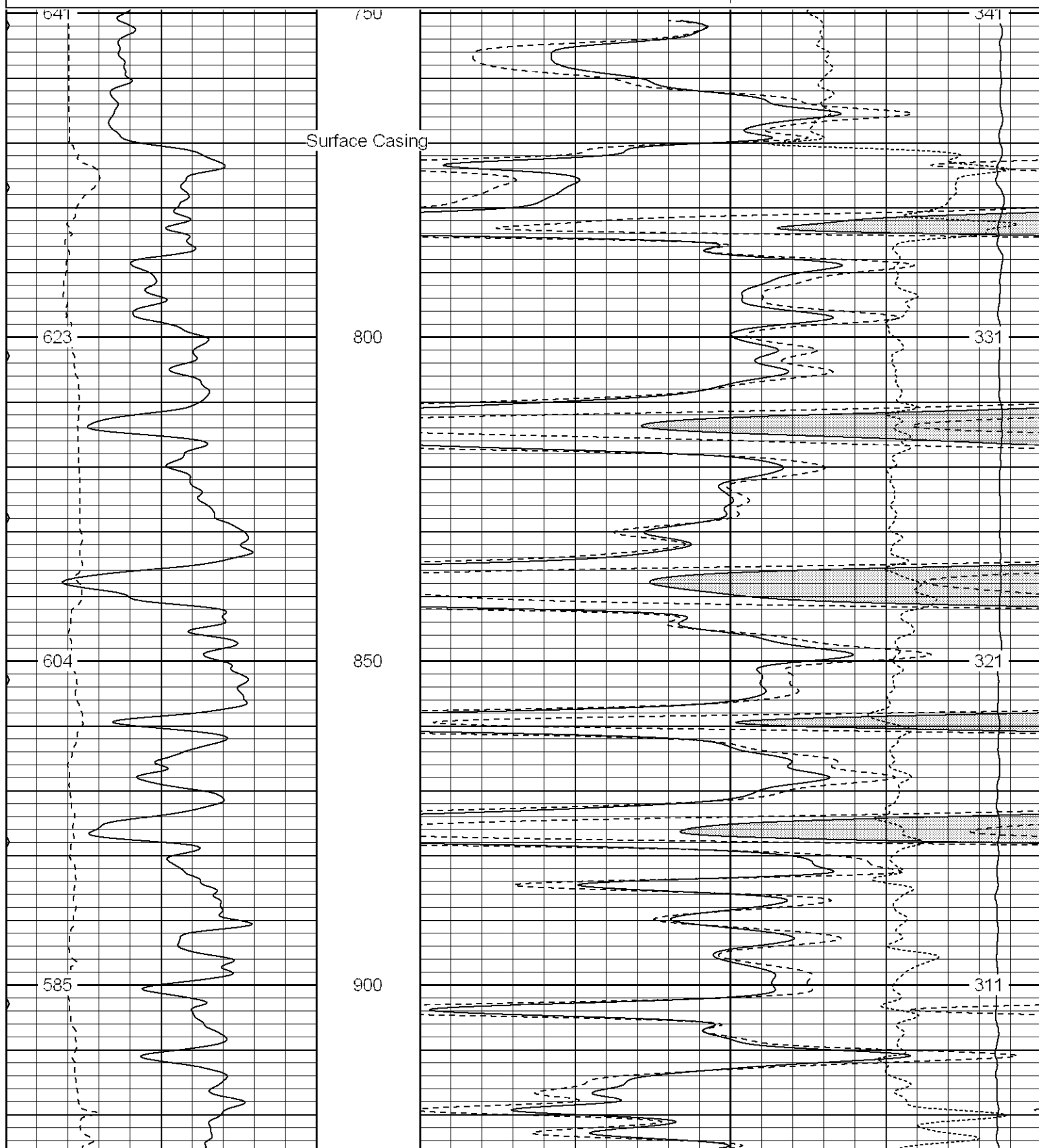
### Comments

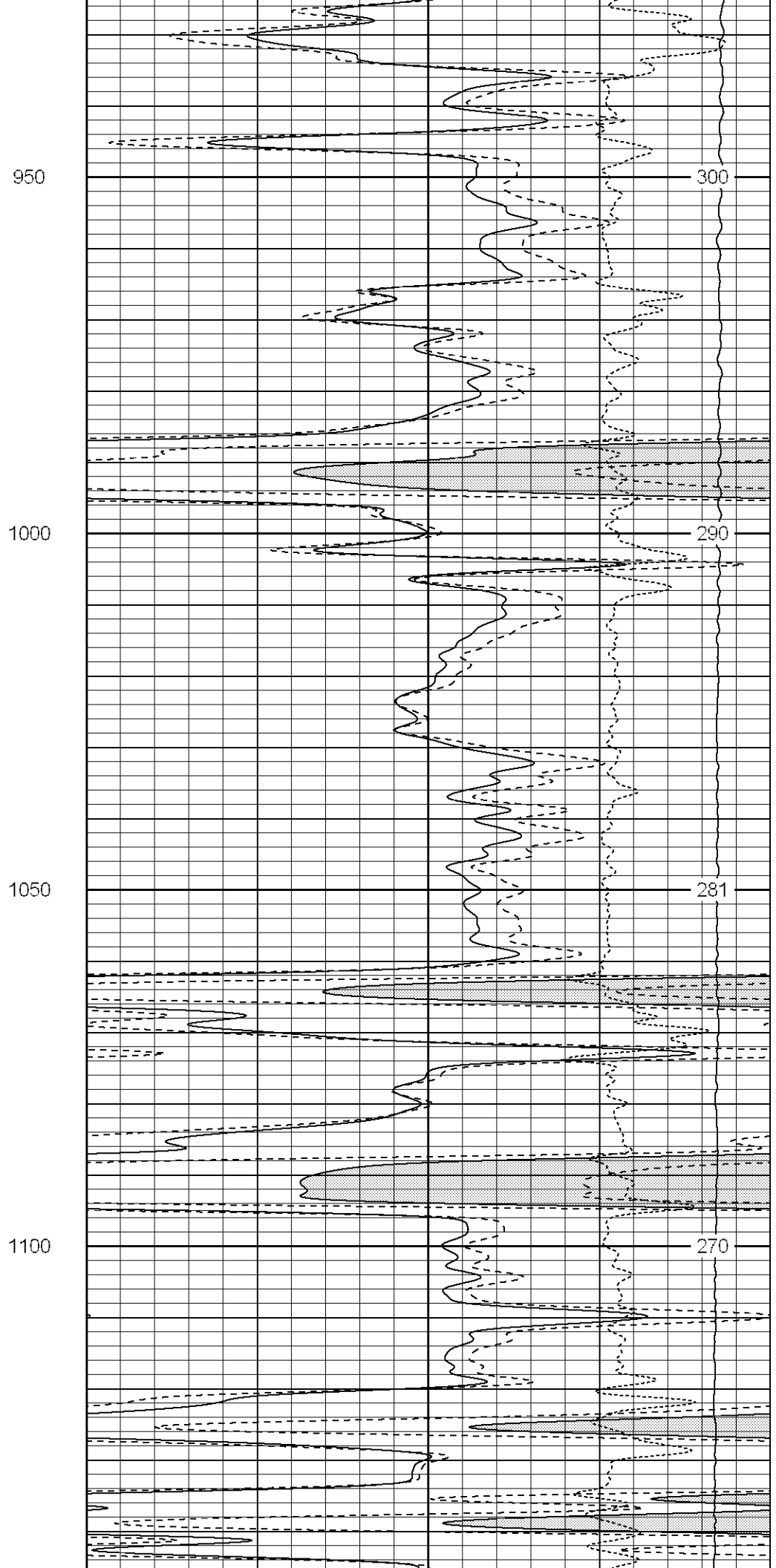
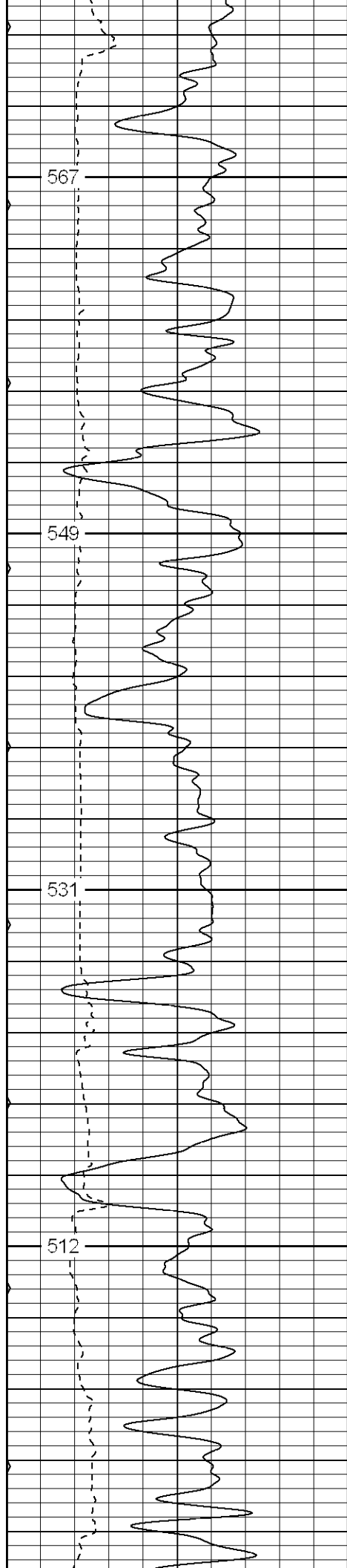
Compensated Density Neutron Porosity Presented On Sandstone Matrix.  
ABHV Calculated For 5 1/2" Casing.  
Turn at Bosque before Weston, go right at Big Bingham Canyon,  
take first left thru green gate, at top of hill take sharp left,  
third location.

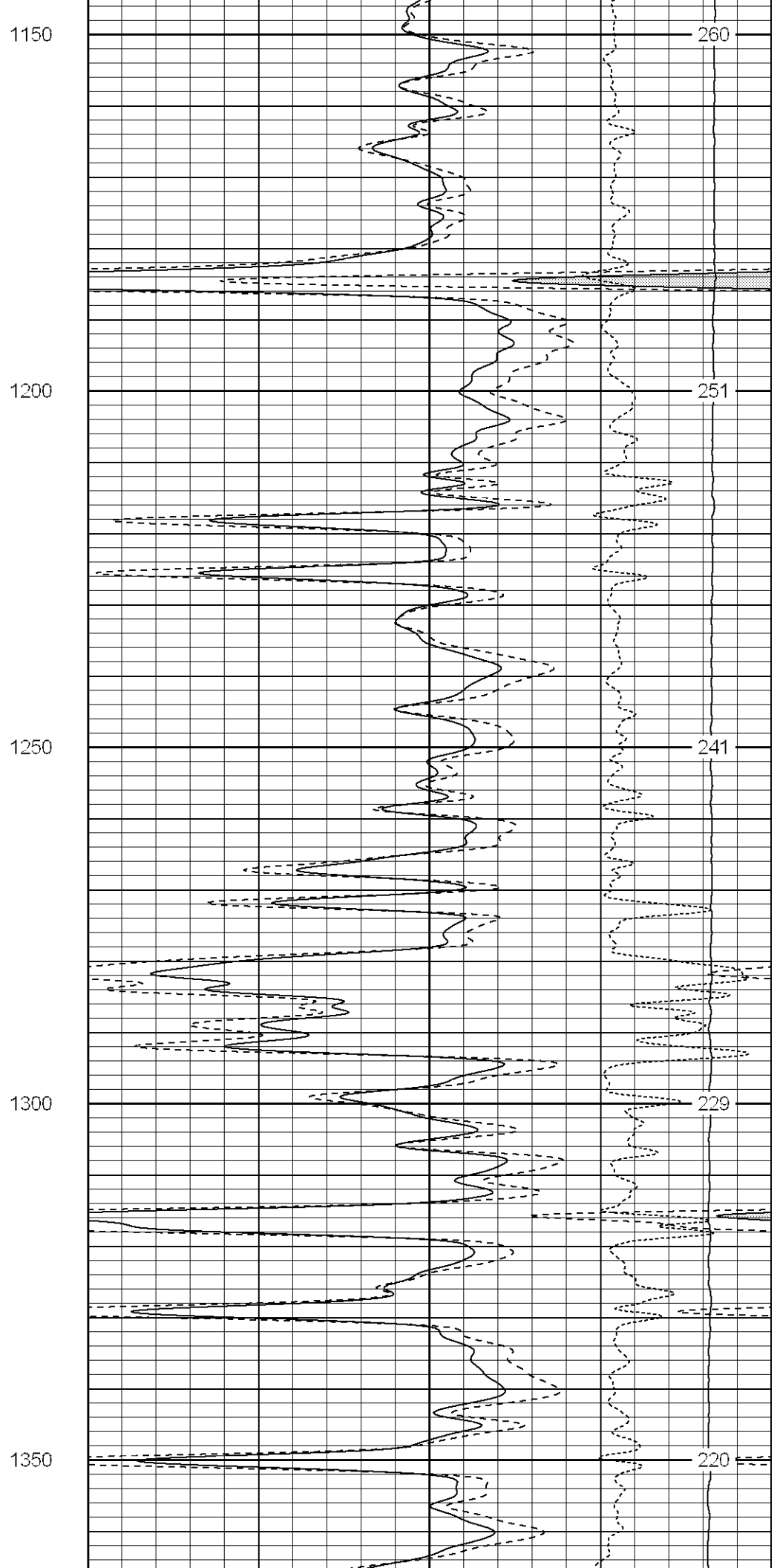
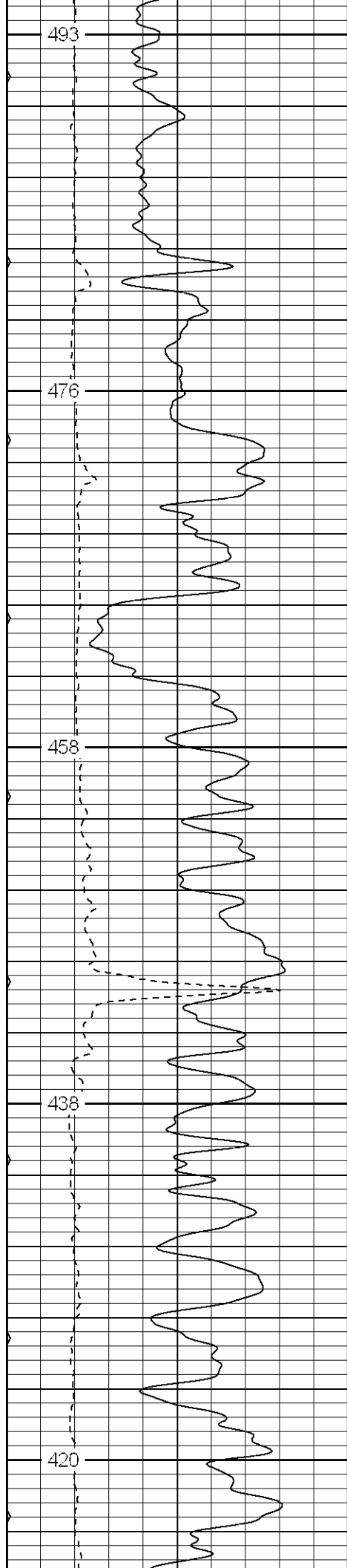
Database File: xtoac1813.db  
Dataset Pathname: pass5.1  
Presentation Format: cdl  
Dataset Creation: Fri Aug 25 22:37:11 2006 by Calc Warrior 7.0 STD Ope  
Charted by: Depth in Feet scaled 1:240

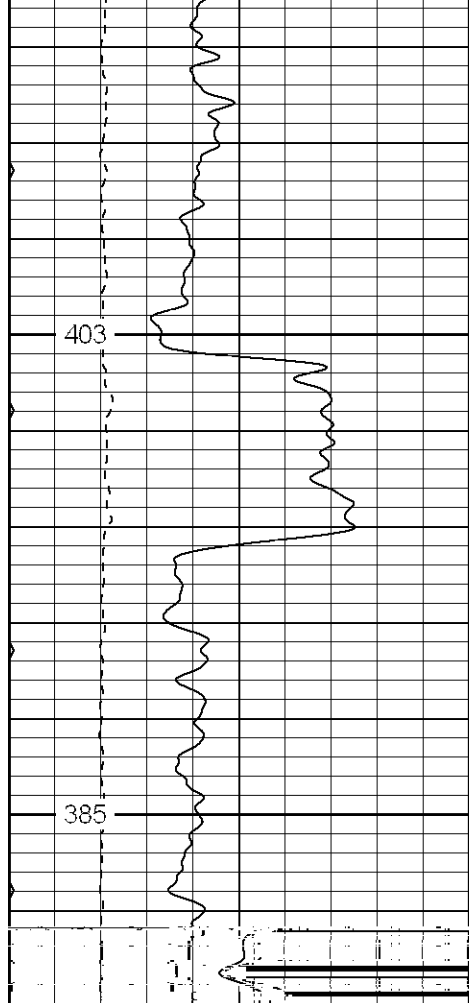
0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80

2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0



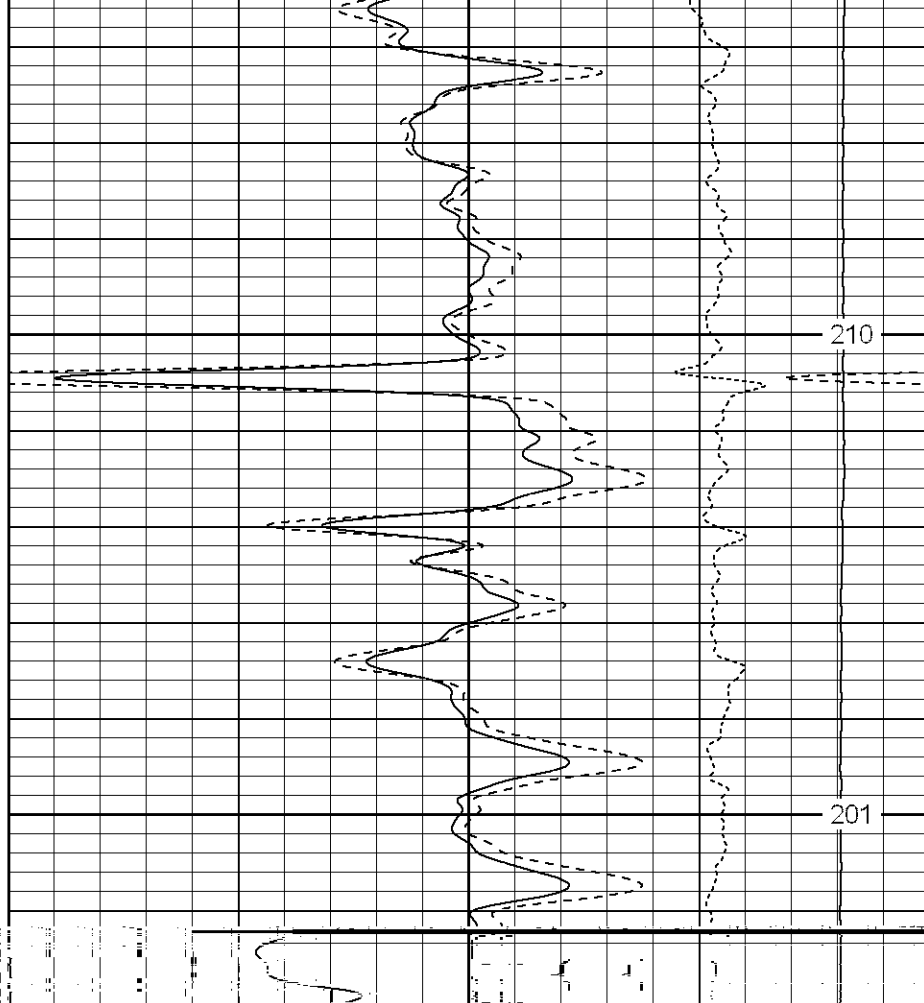


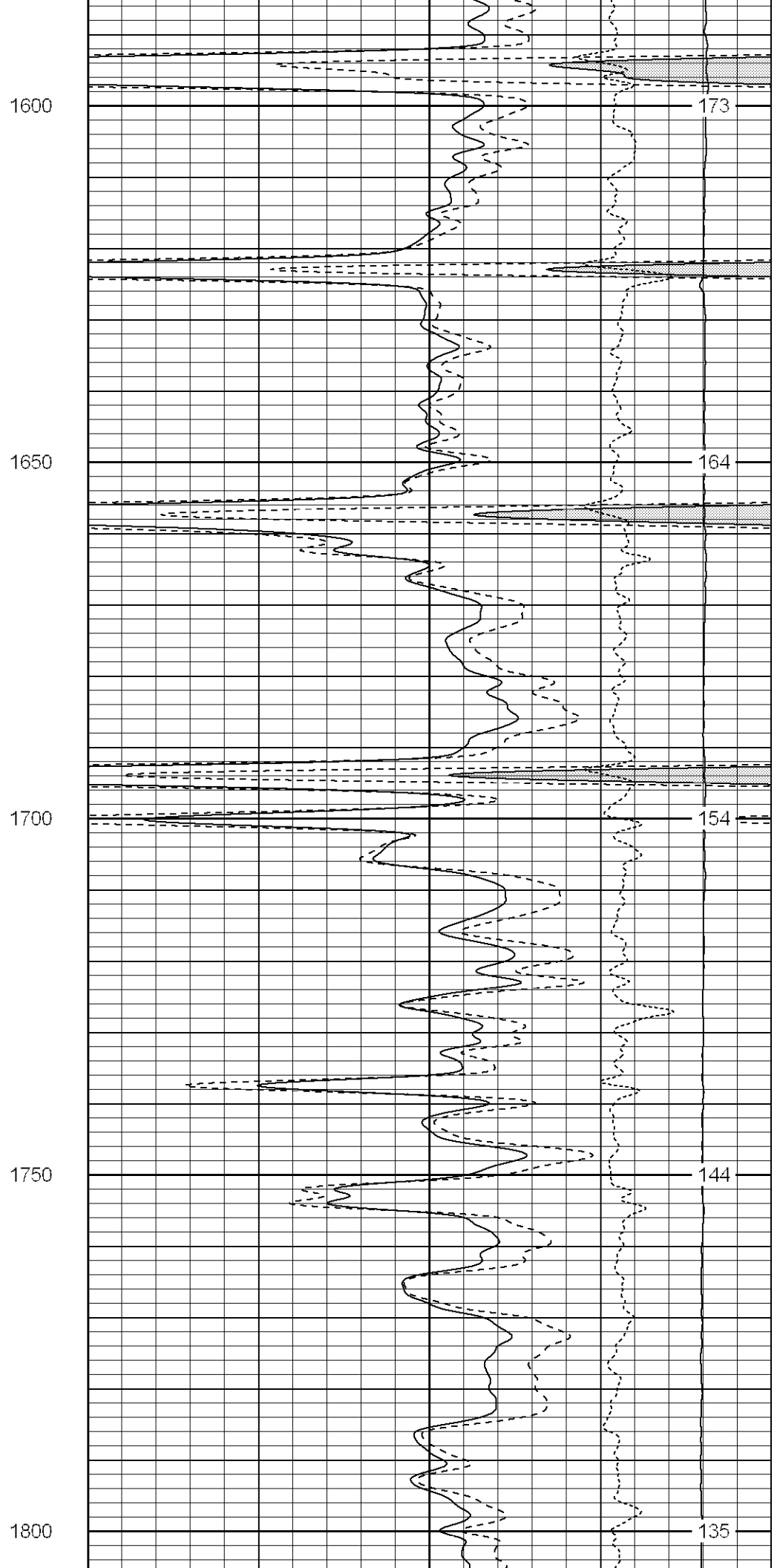
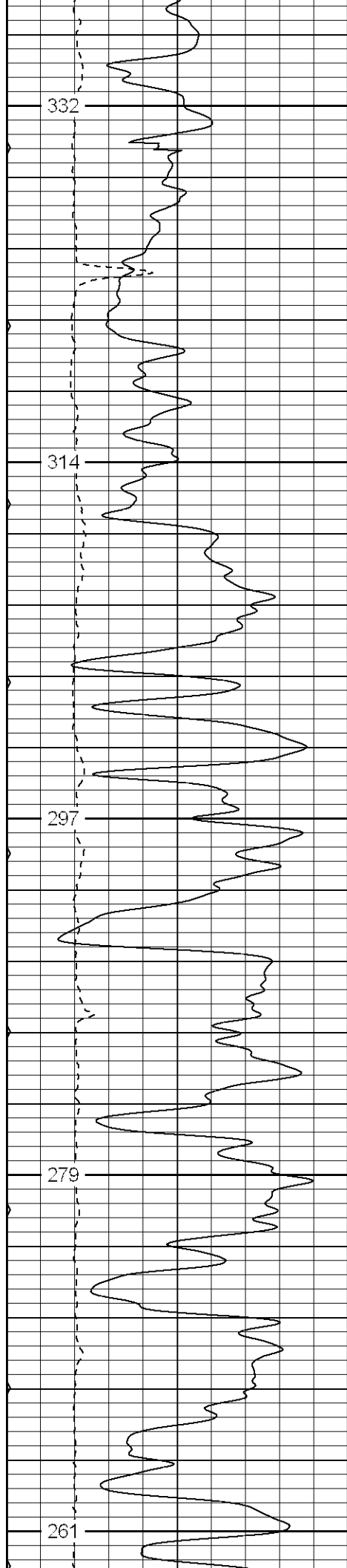


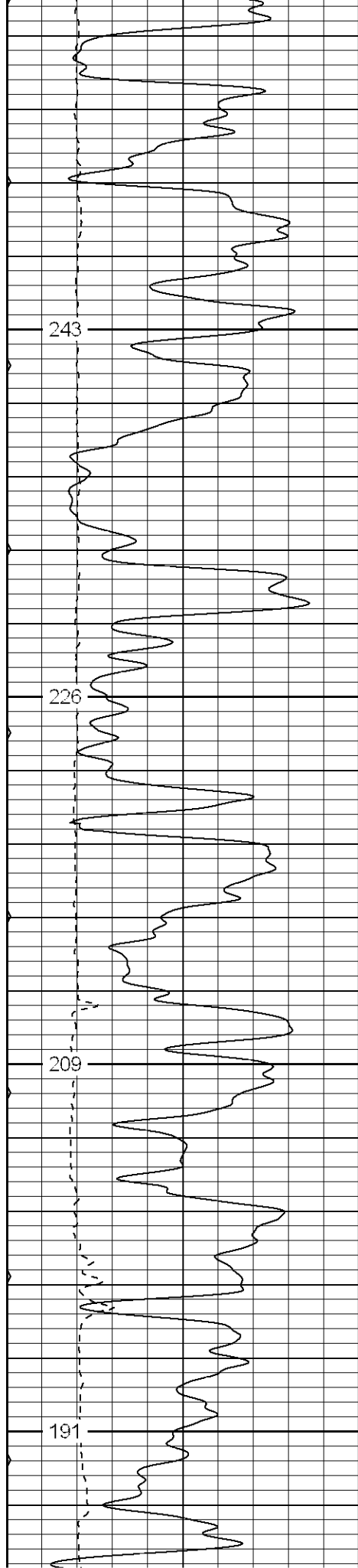


1400

1450





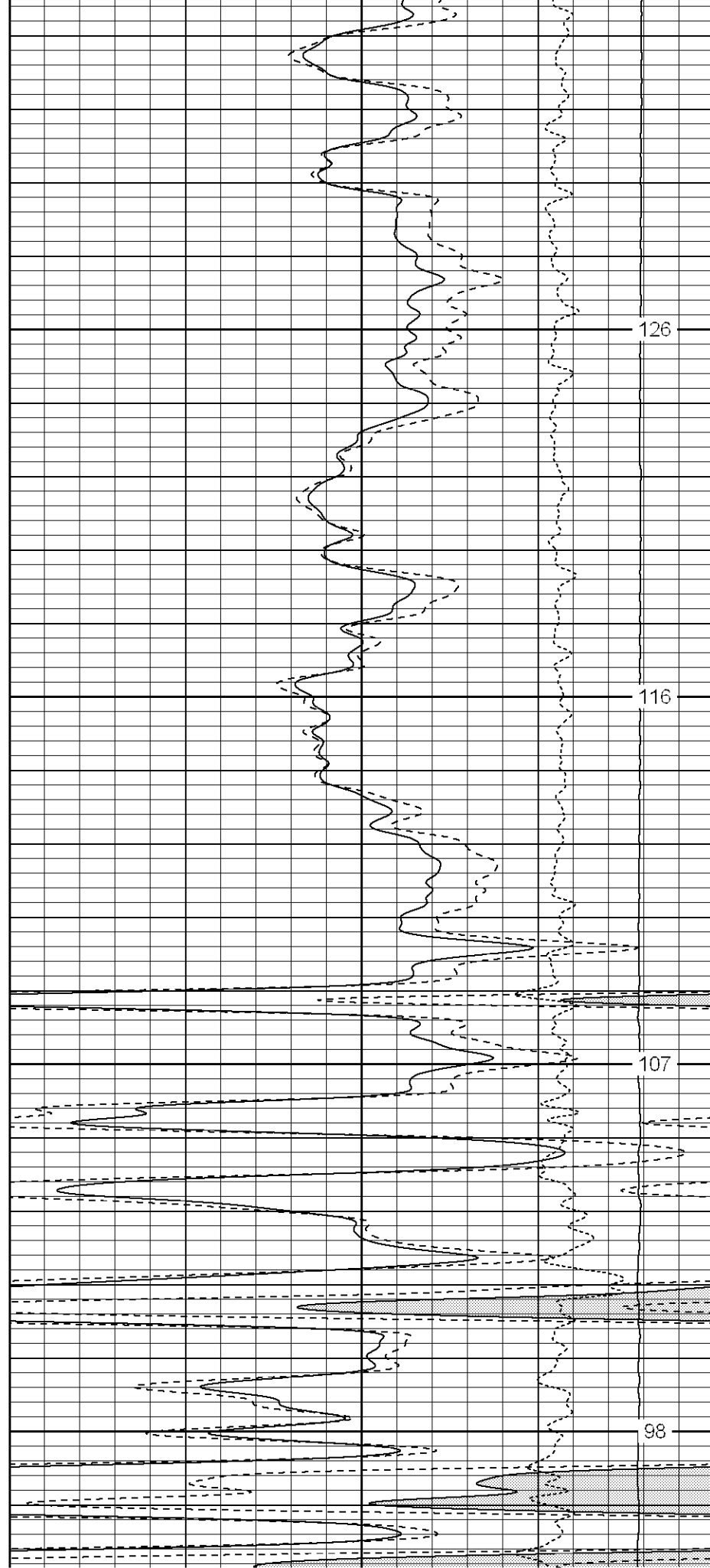


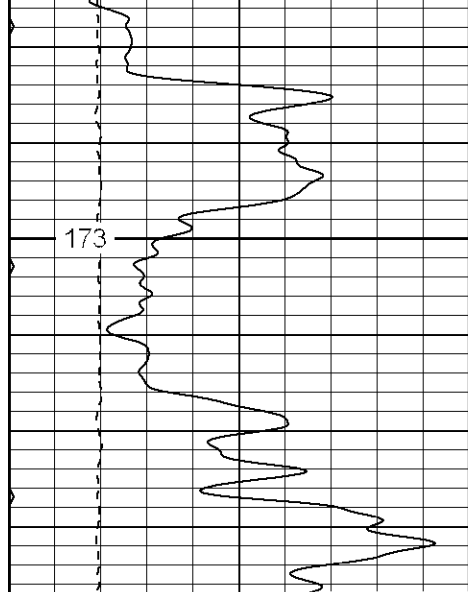
1850

1900

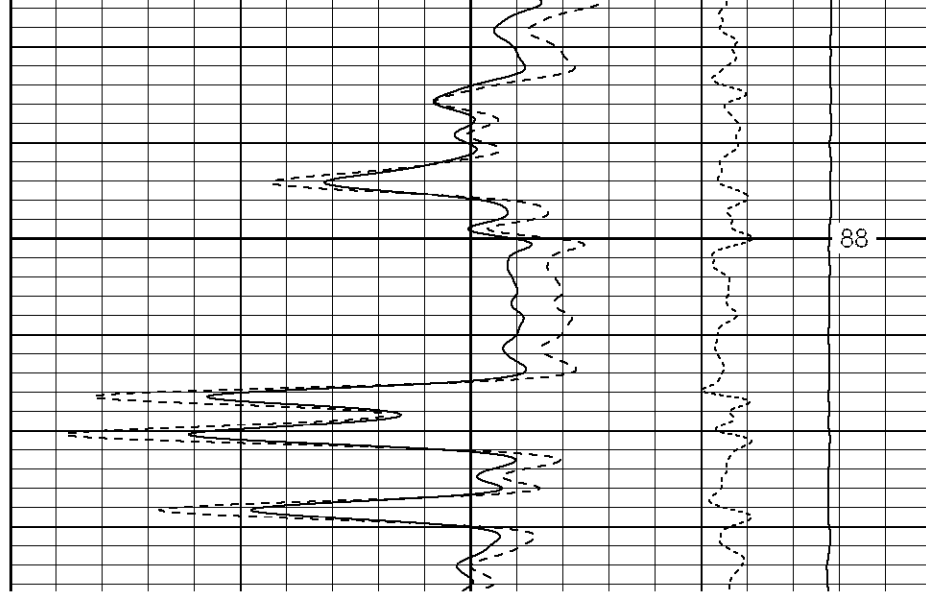
1950

2000

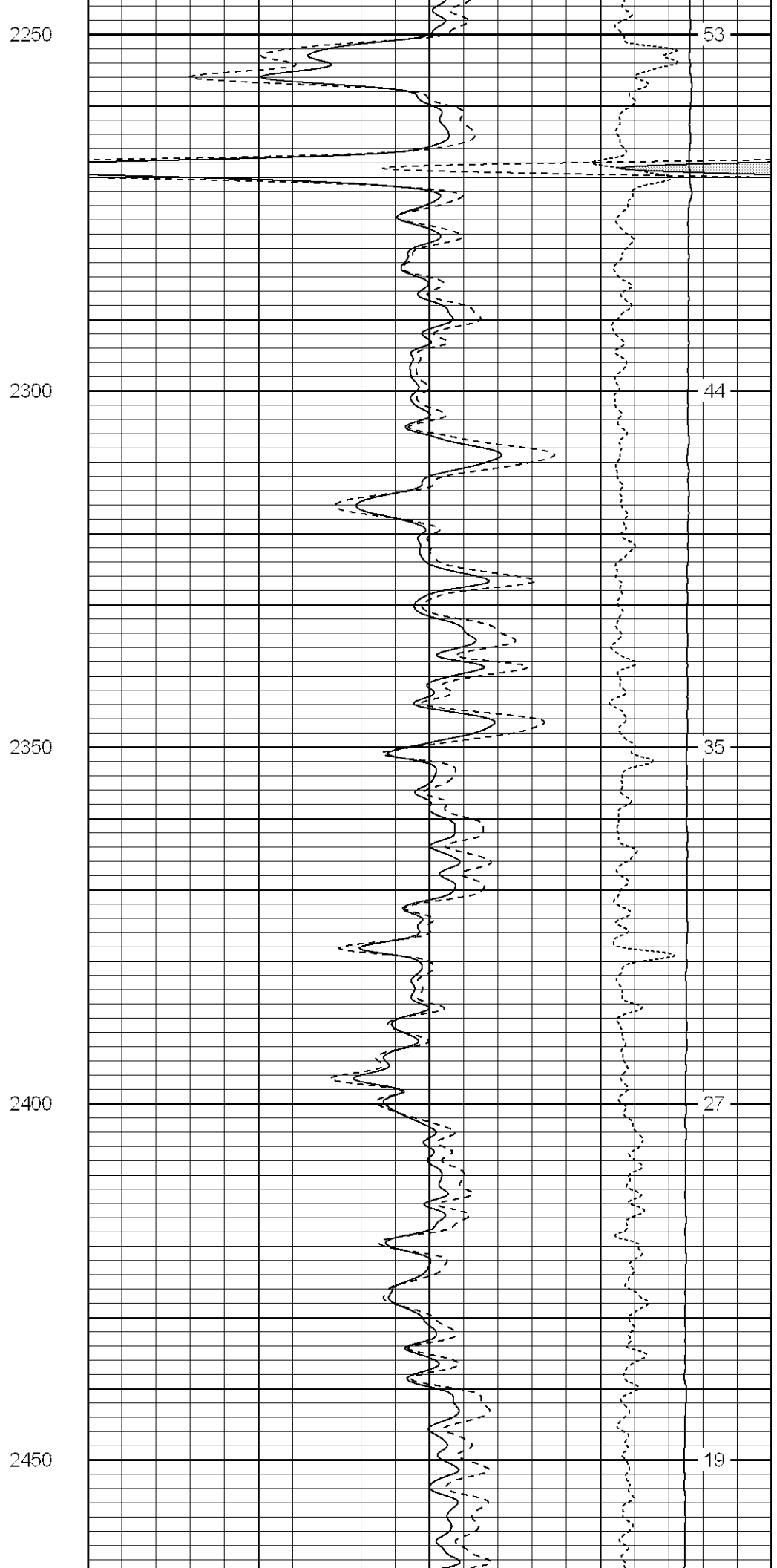
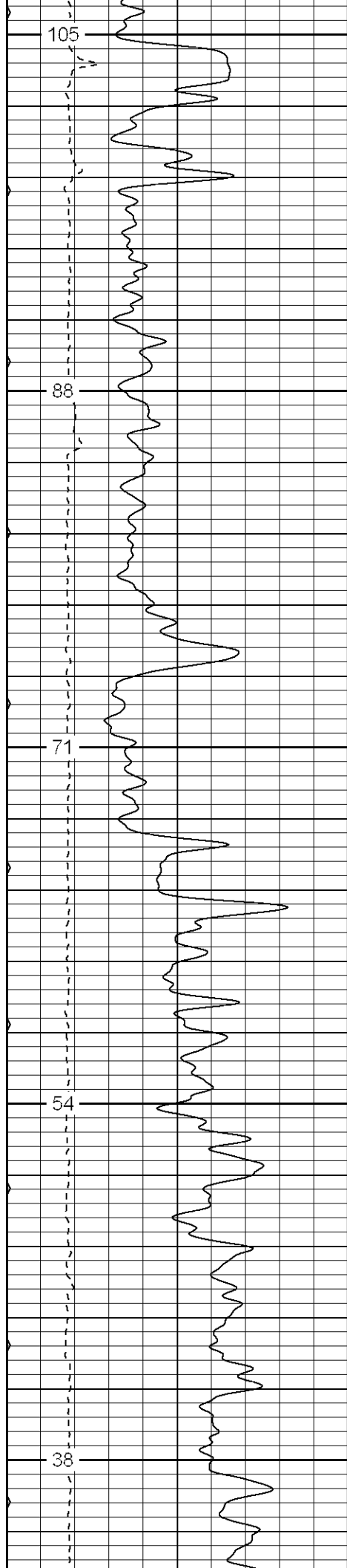


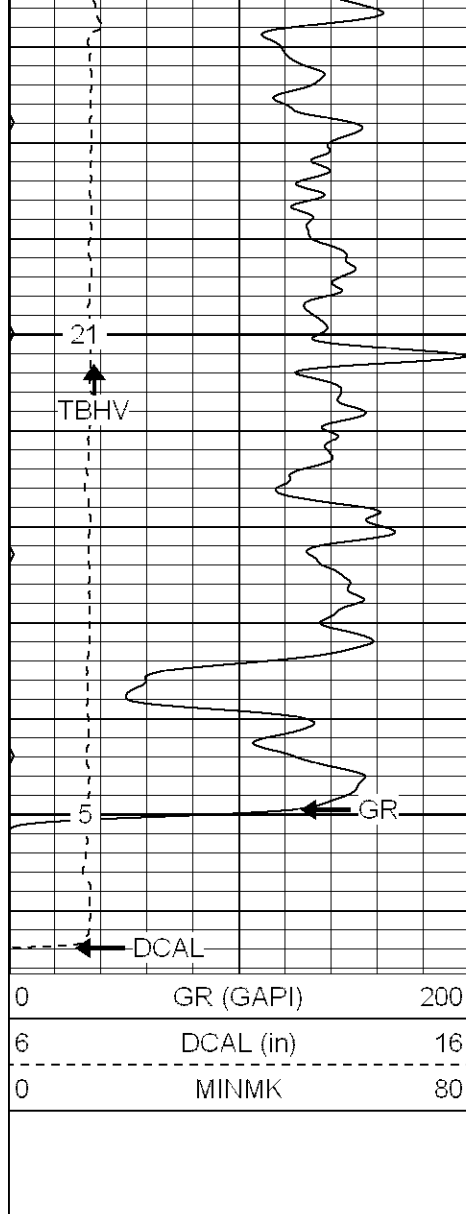


2050



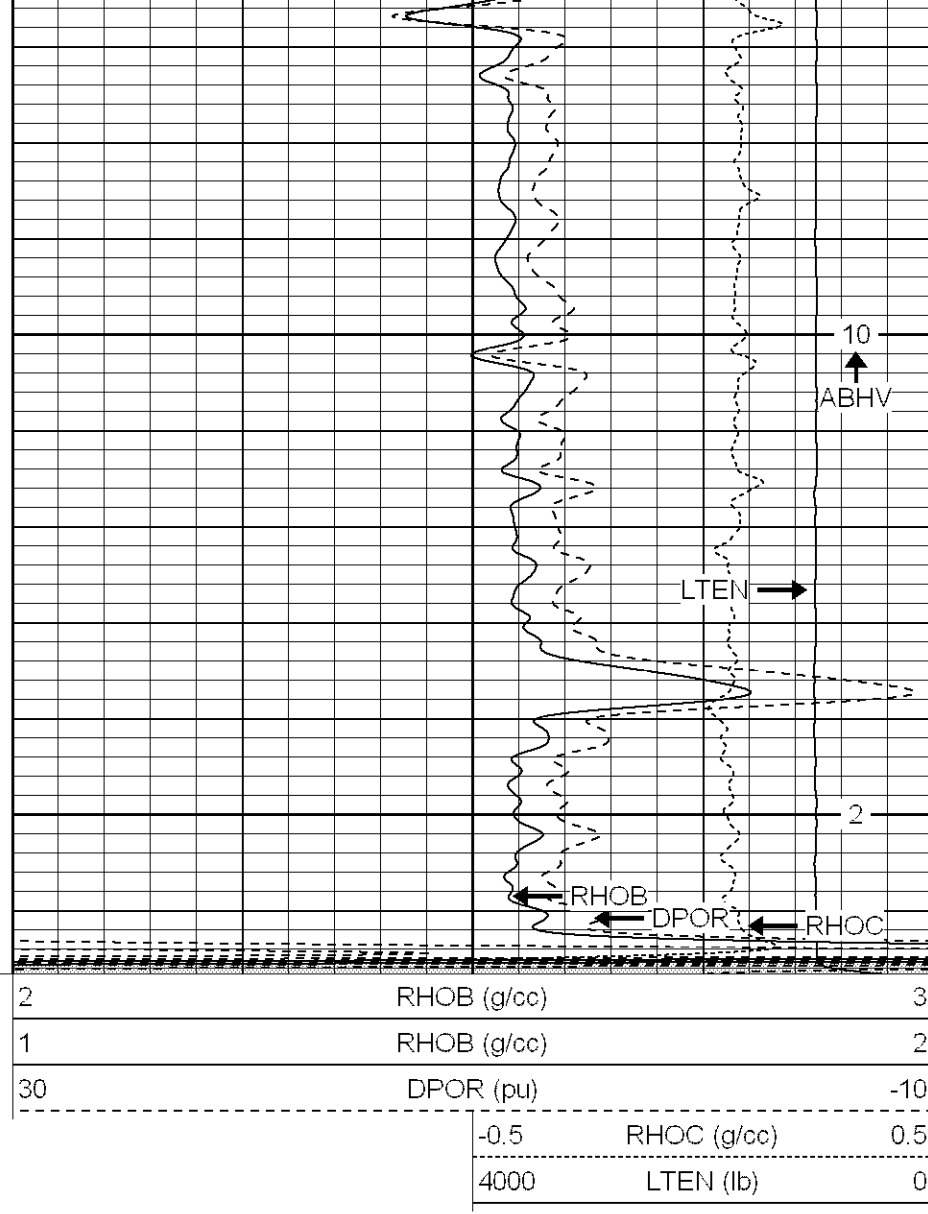






2500

2550



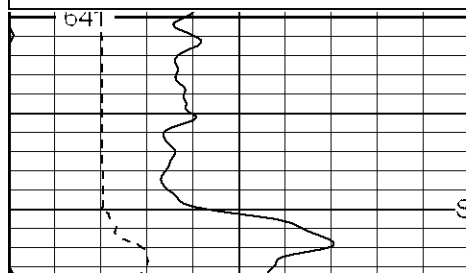
**Patterson**

**Main Pass**

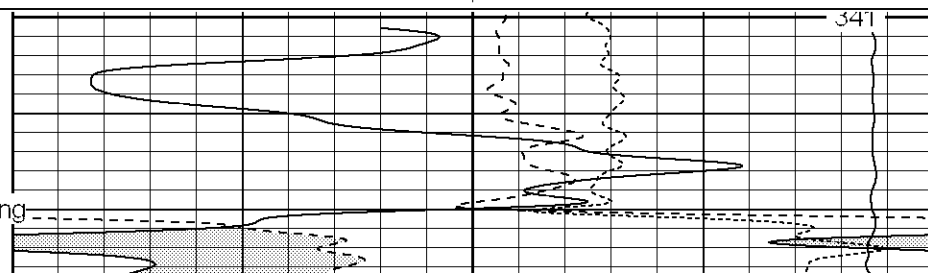
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 Dataset Pathname: pass5.1  
 Presentation Format: cdnl  
 Dataset Creation: Fri Aug 25 22:37:11 2006 by Calc Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80

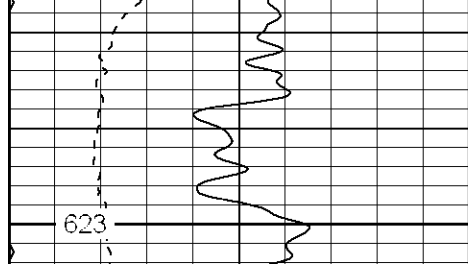
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0



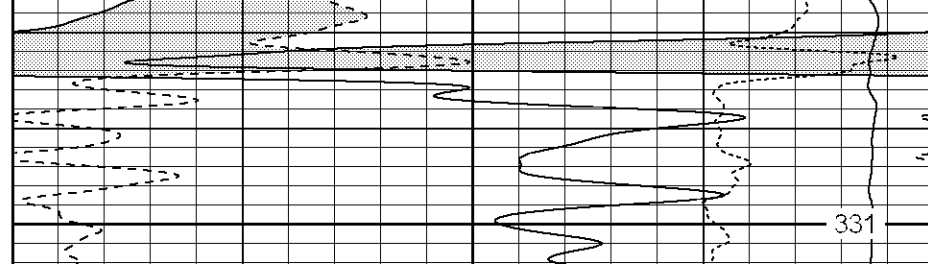
750

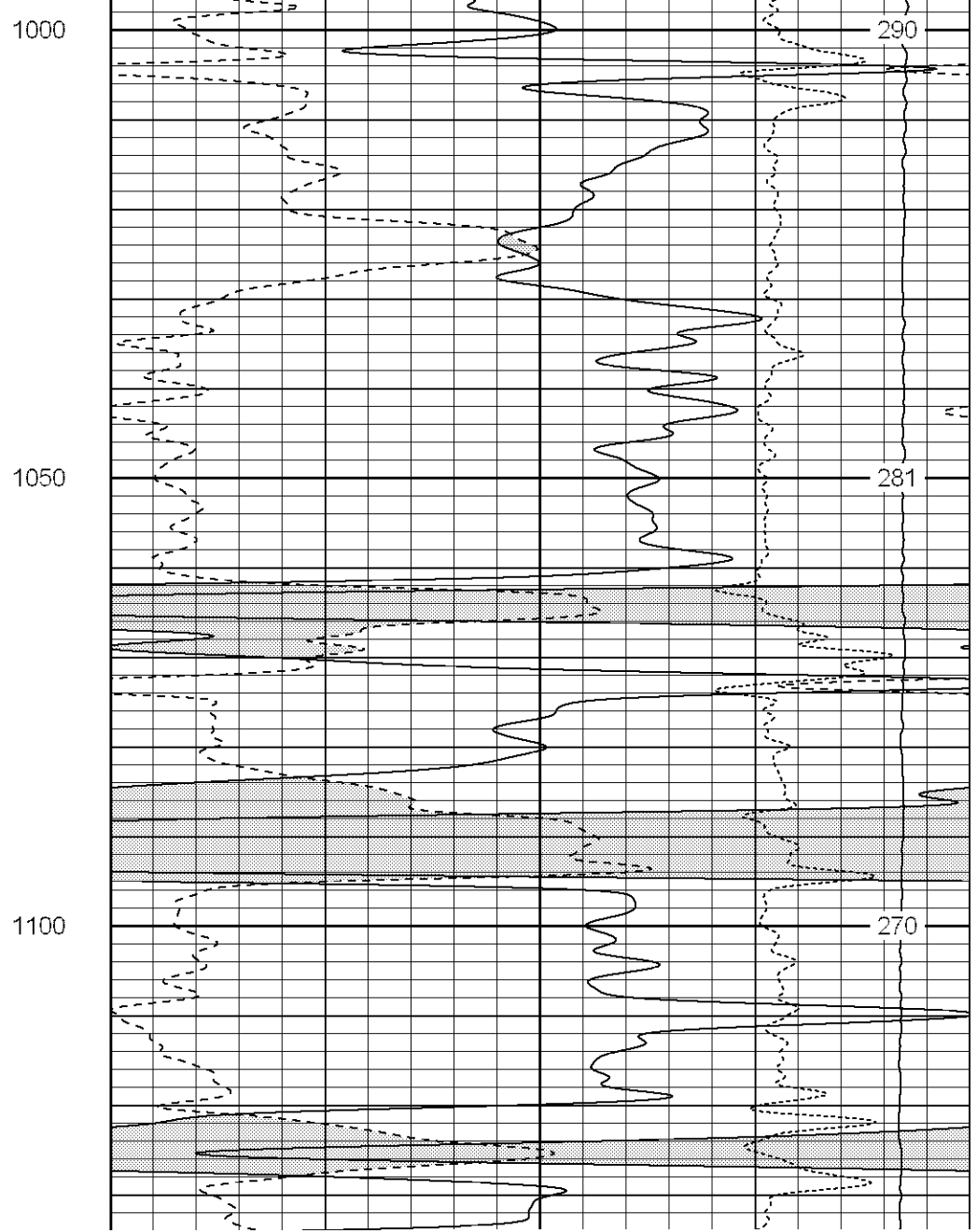
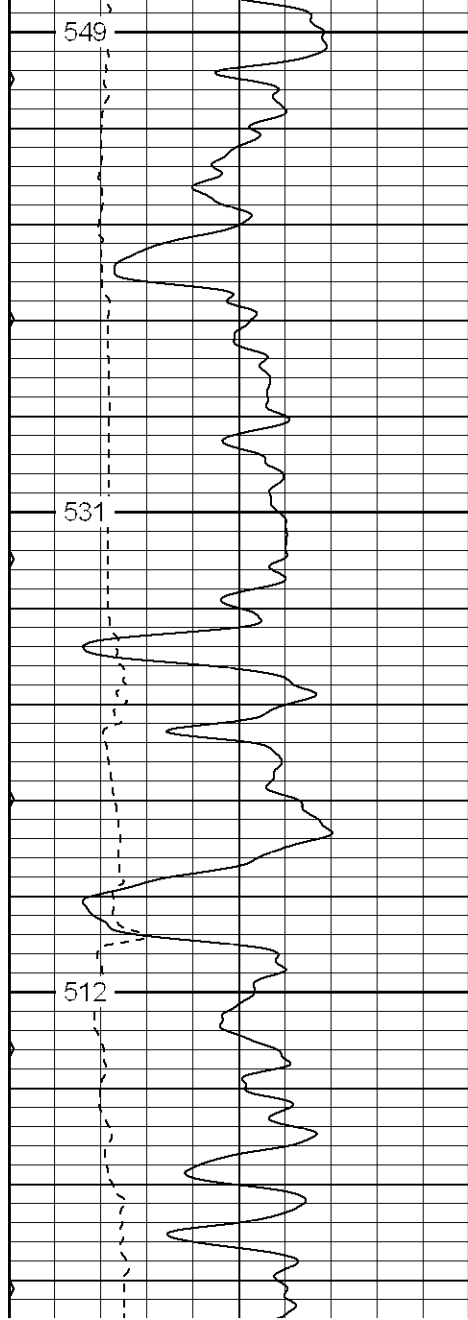


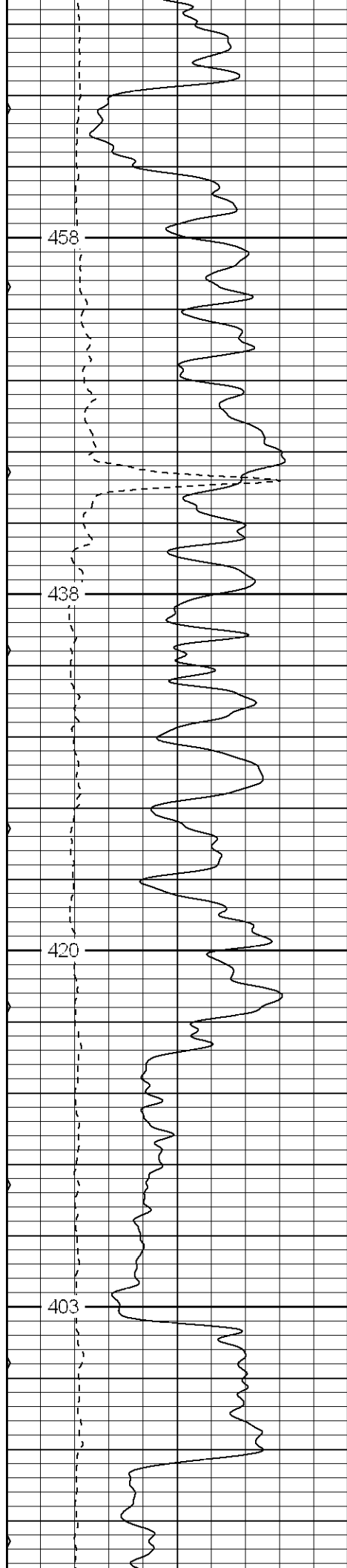
Surface Casing



800





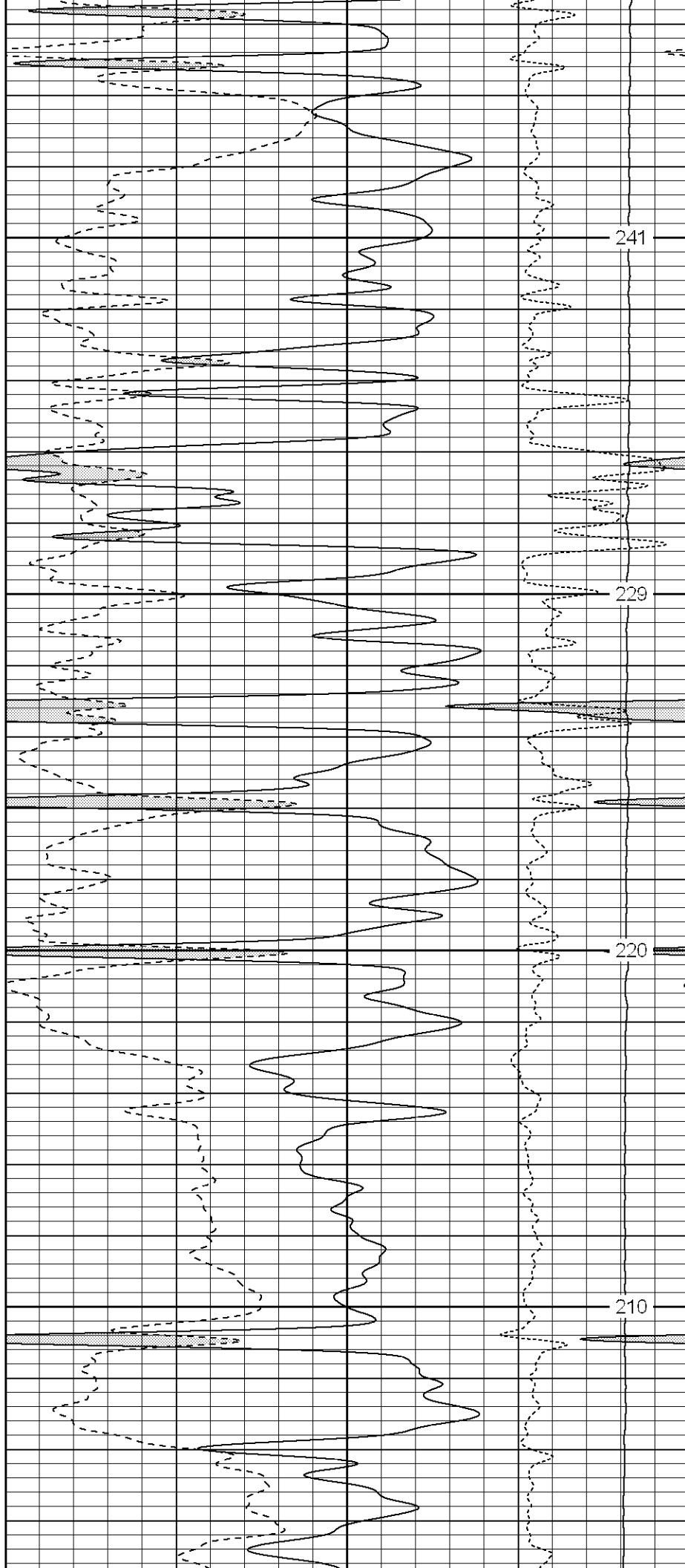


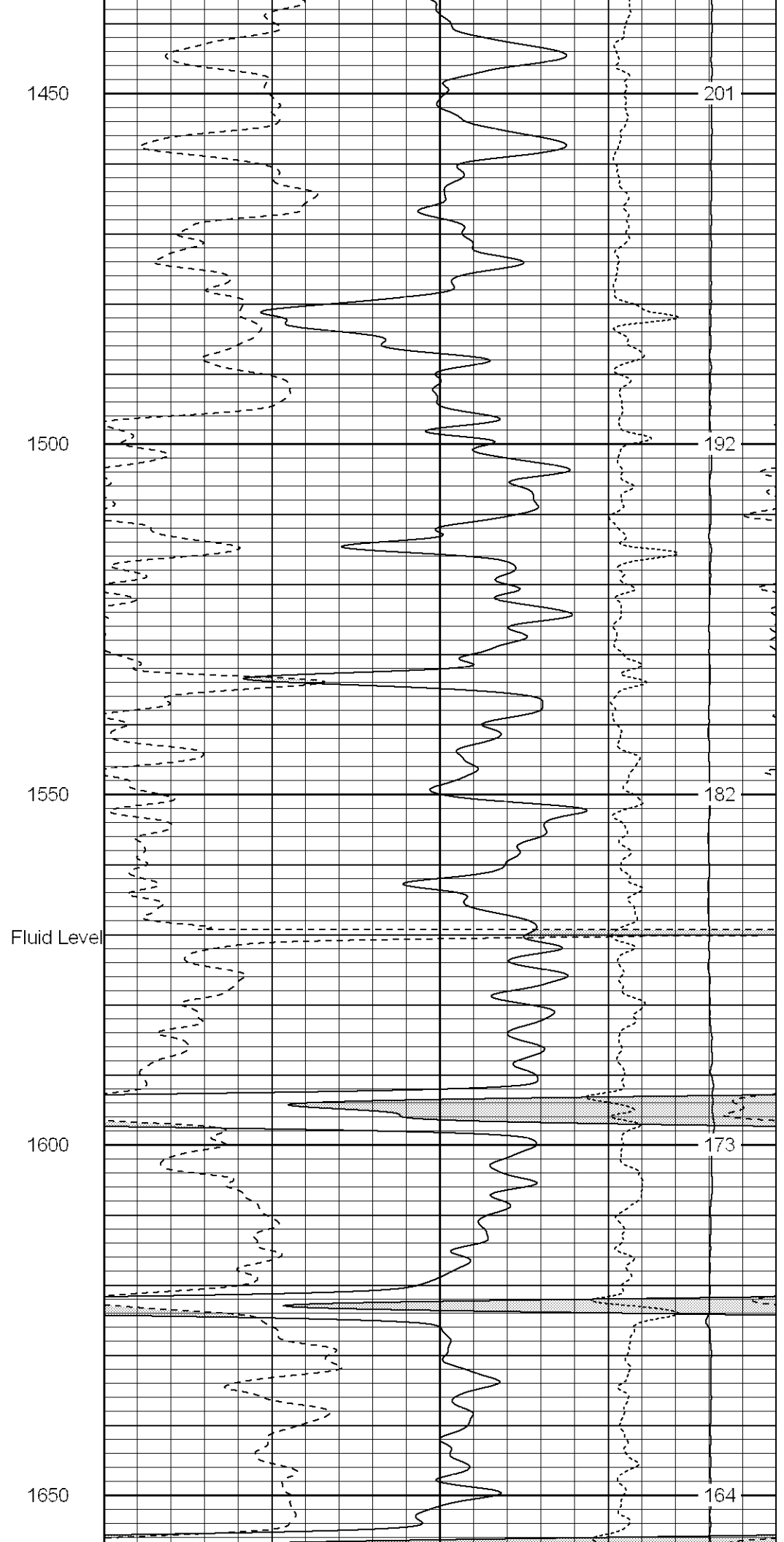
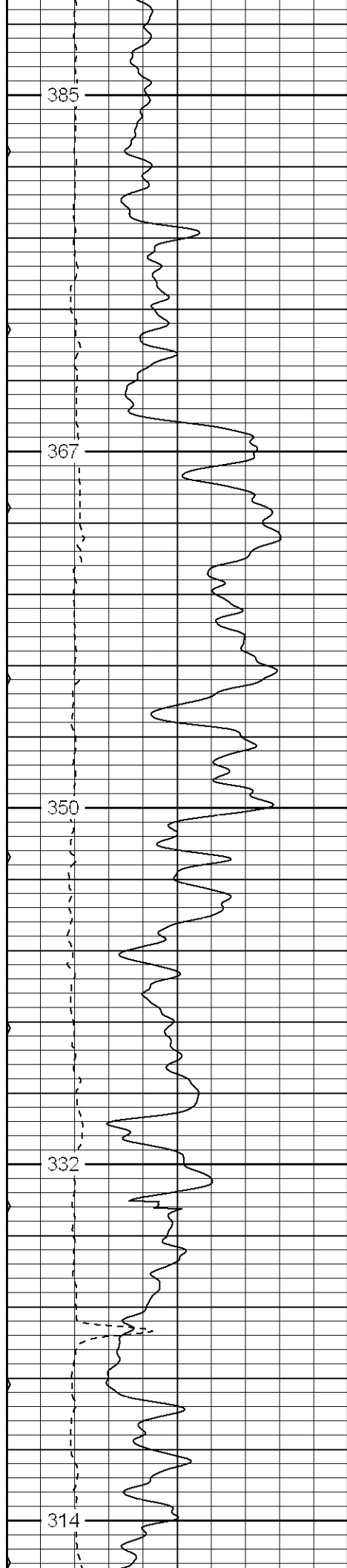
1250

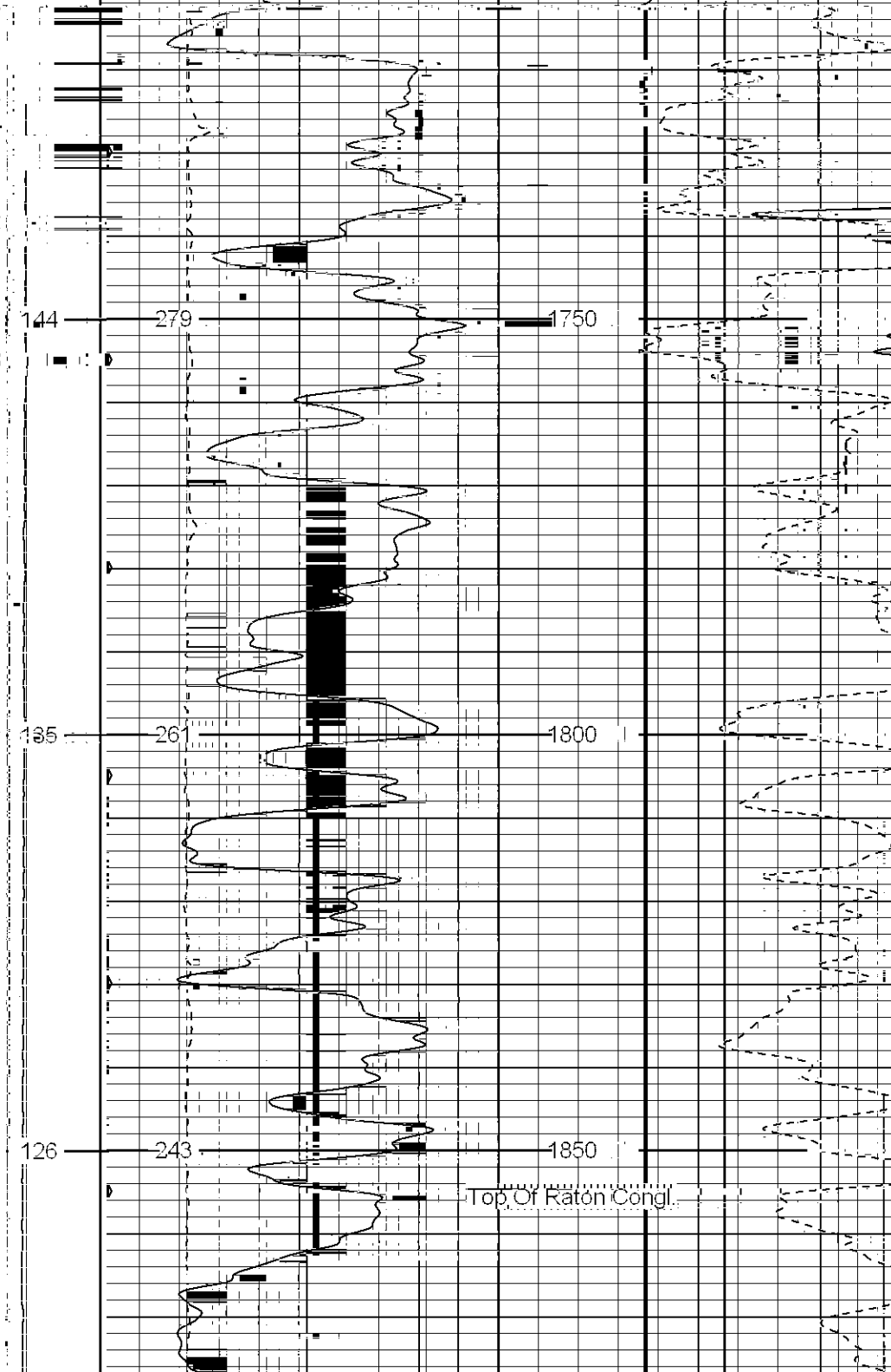
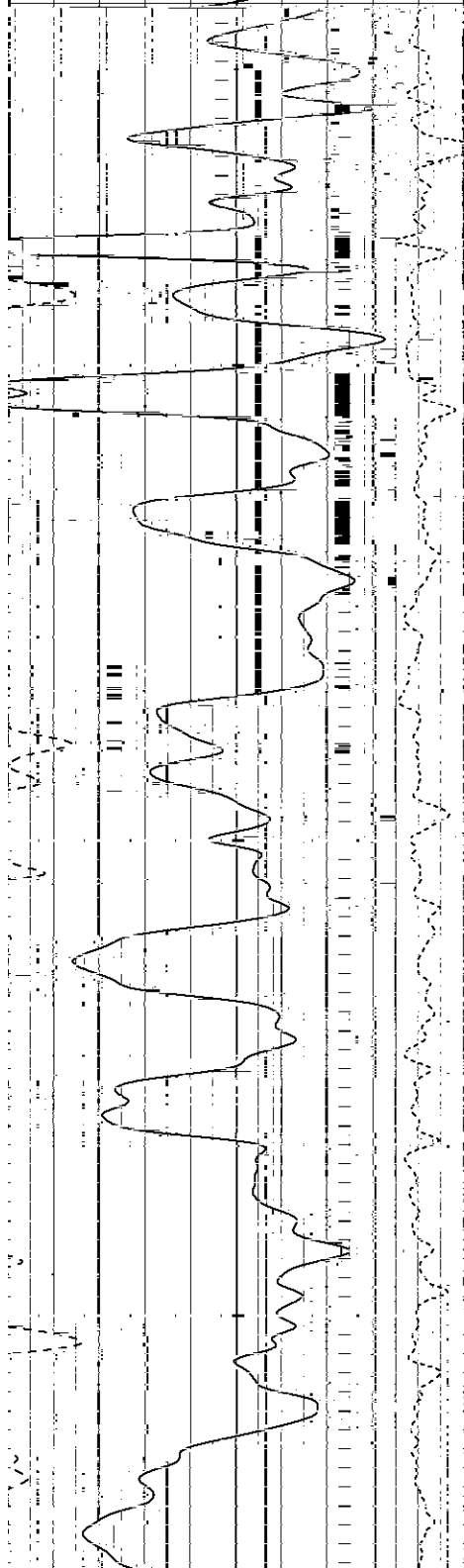
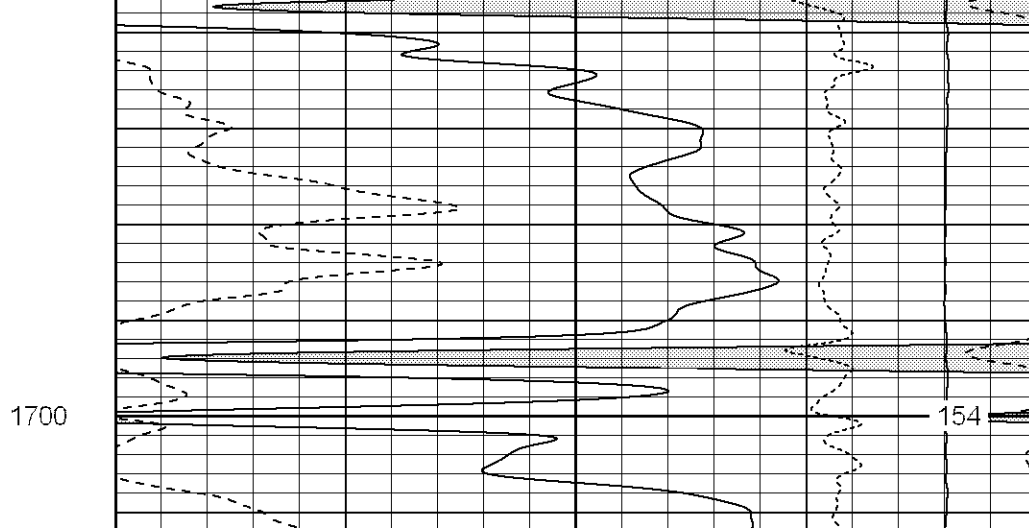
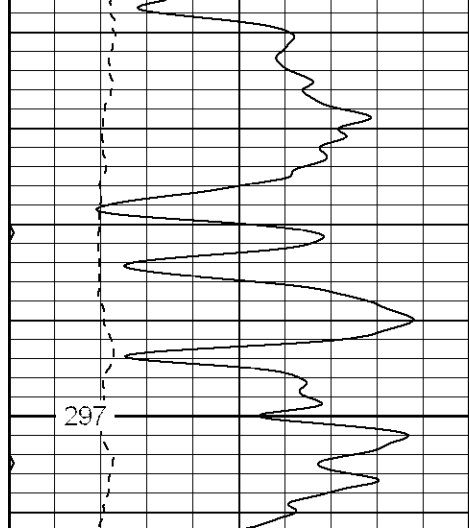
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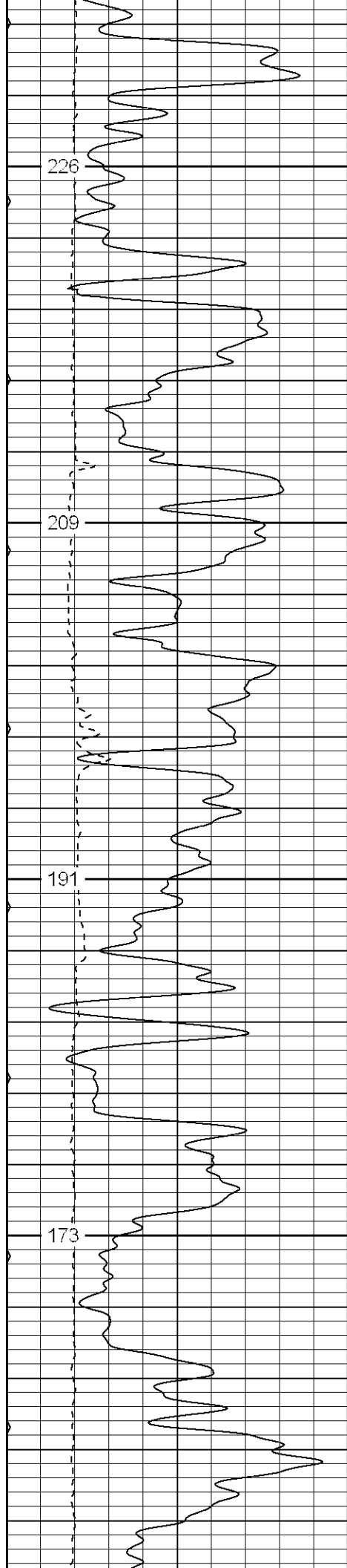
1350

1400







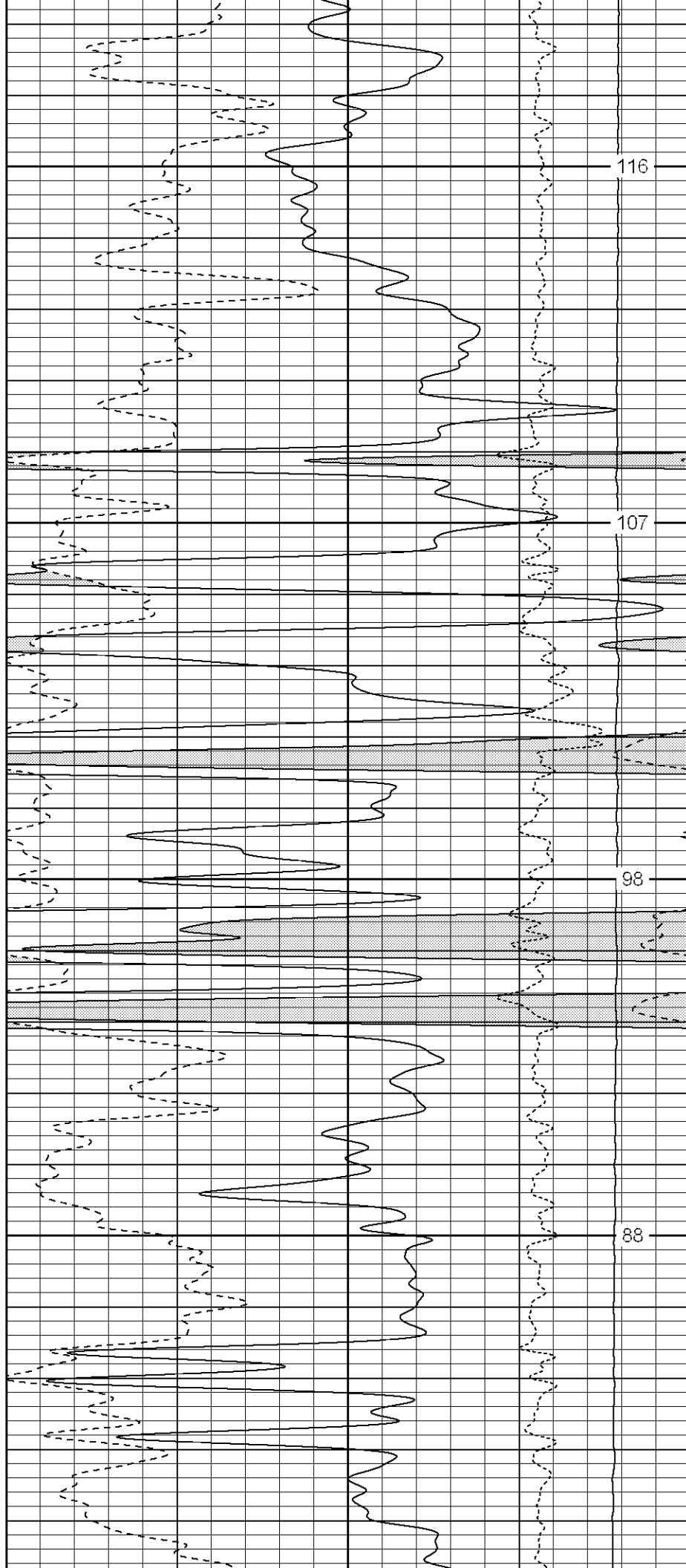


1900

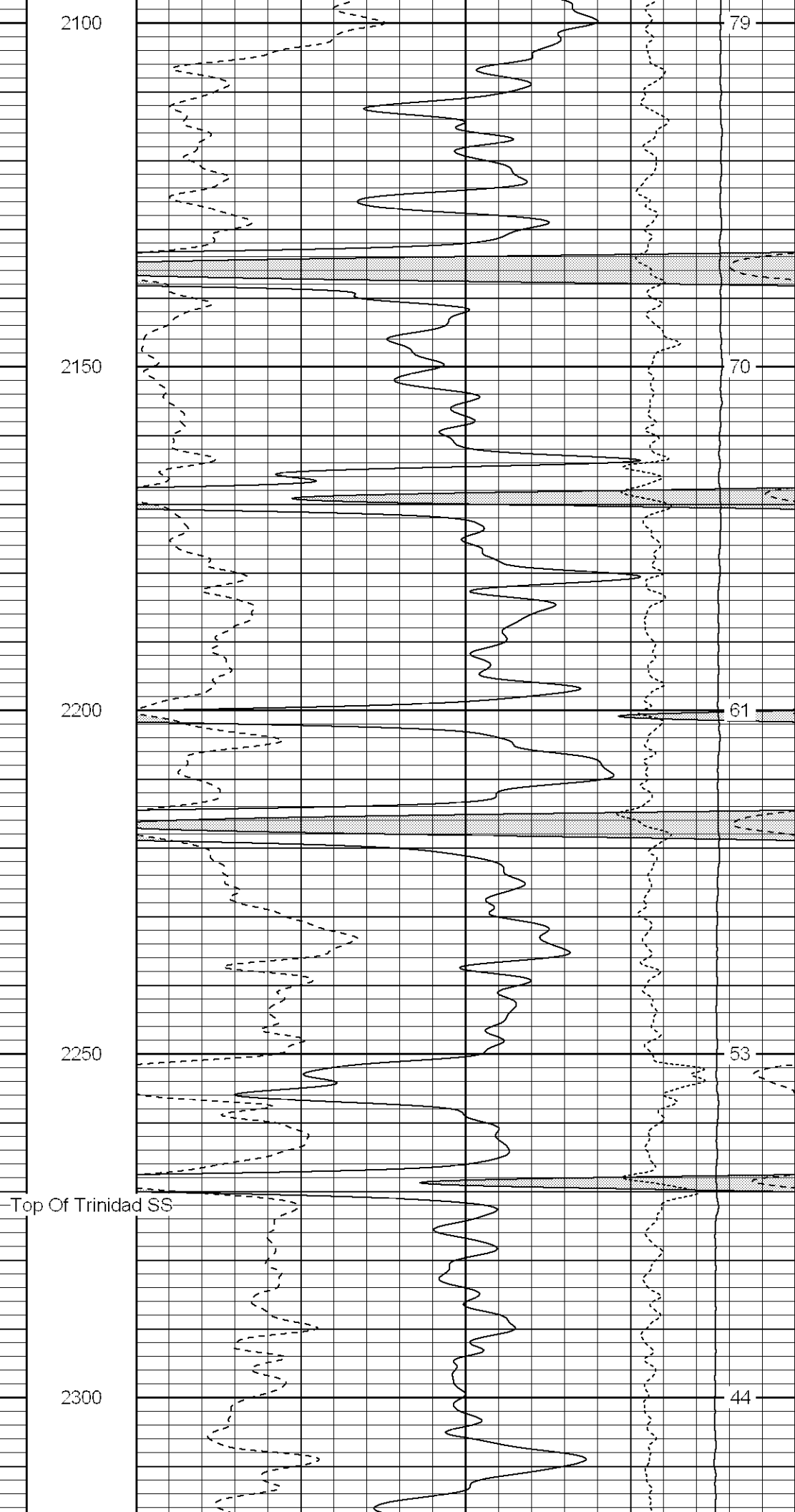
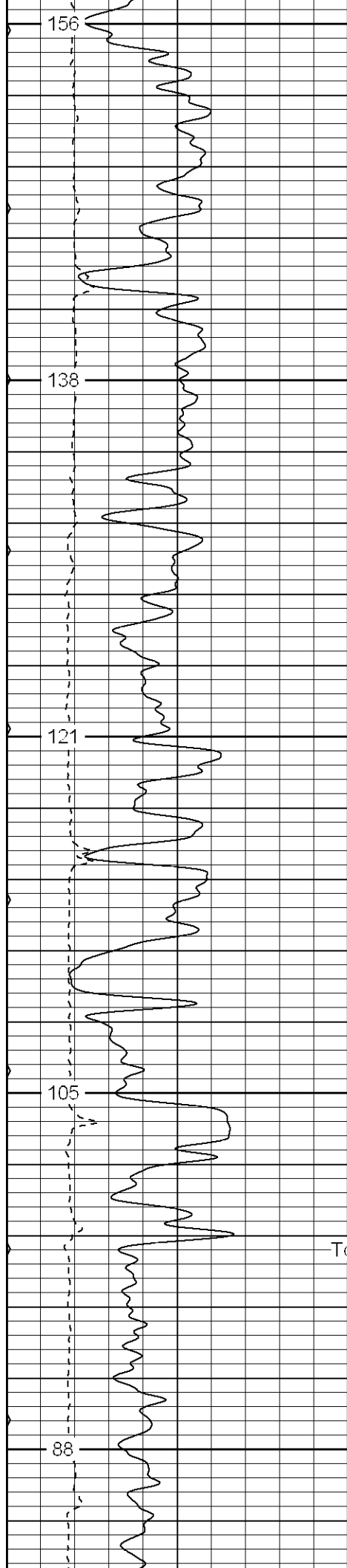
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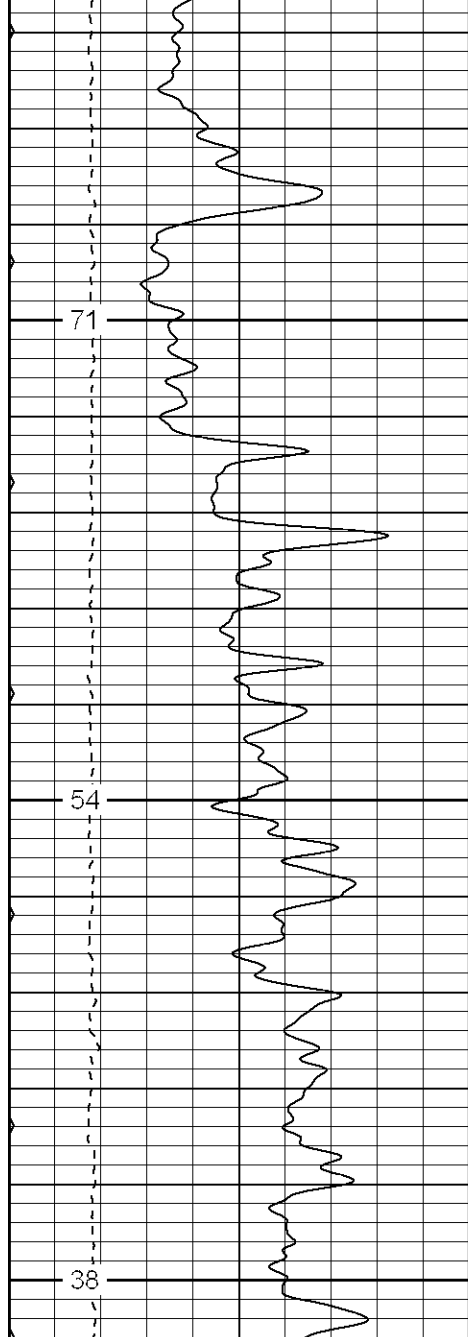
2000

2050





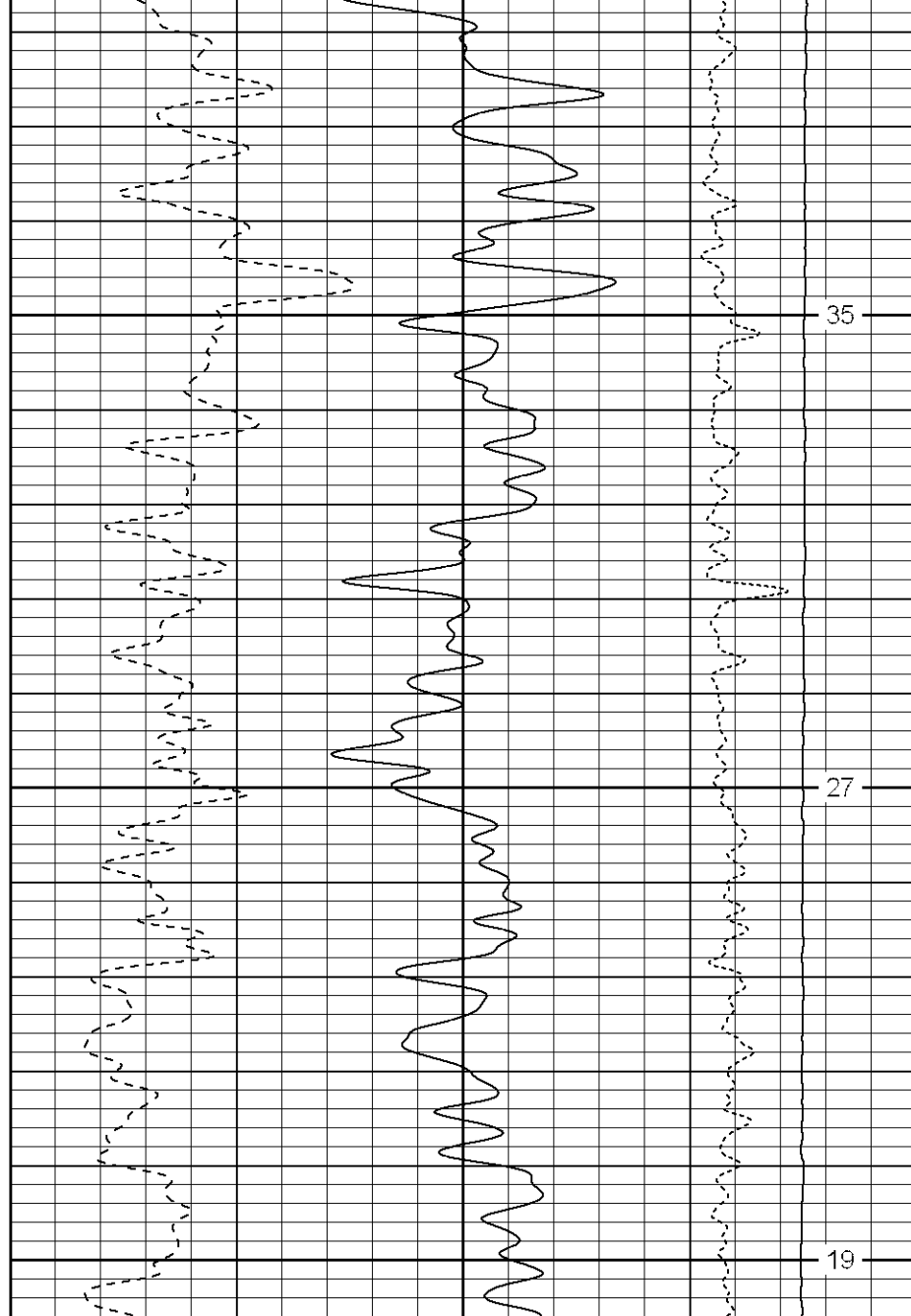


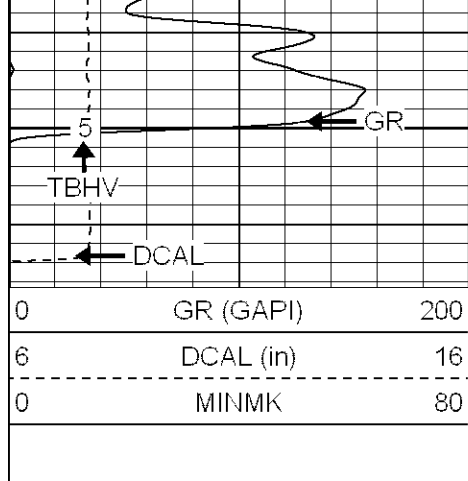


2350

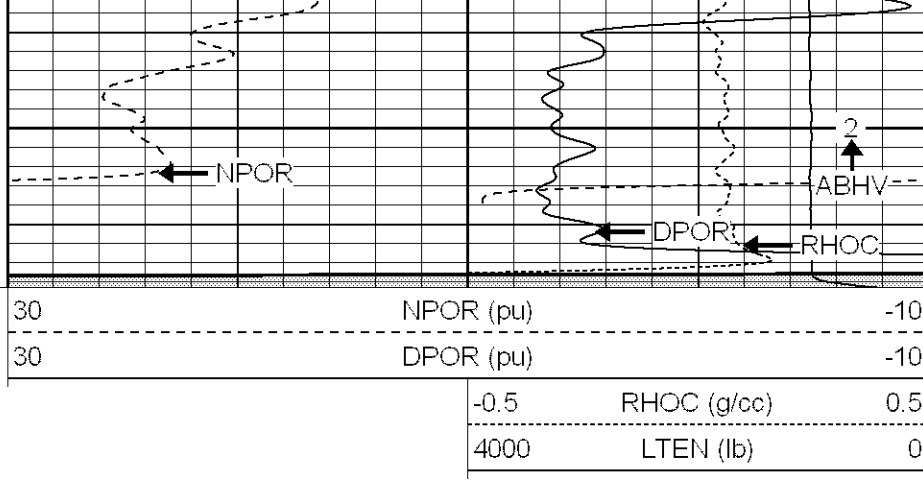
2400

2450





2550



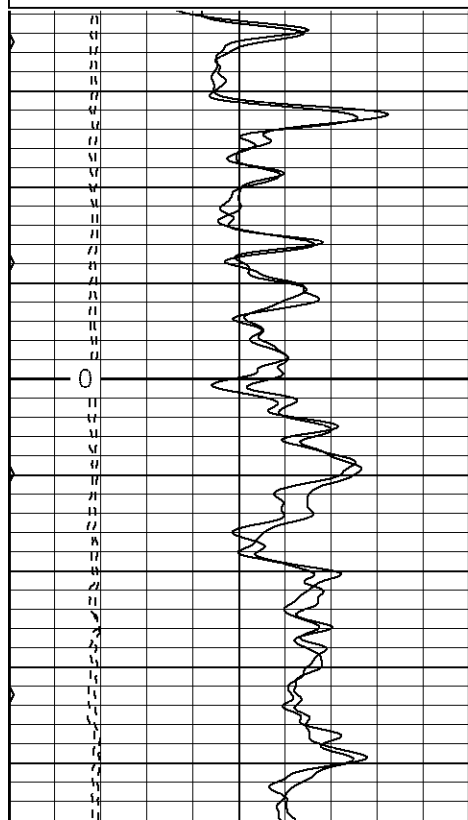
**Patterson**

## Repeat Pass

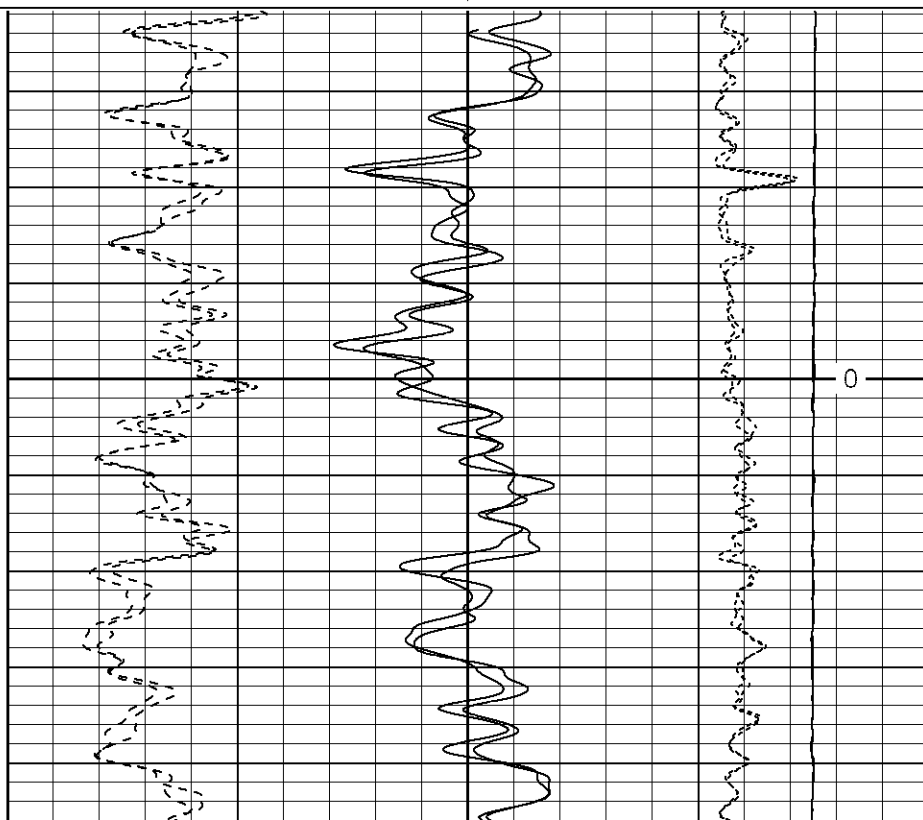
Database File: xtoac1813.db  
 Dataset Pathname: pass4  
 Presentation Format: cdnl  
 Dataset Creation: Fri Aug 25 21:04:19 2006 by Log Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:240

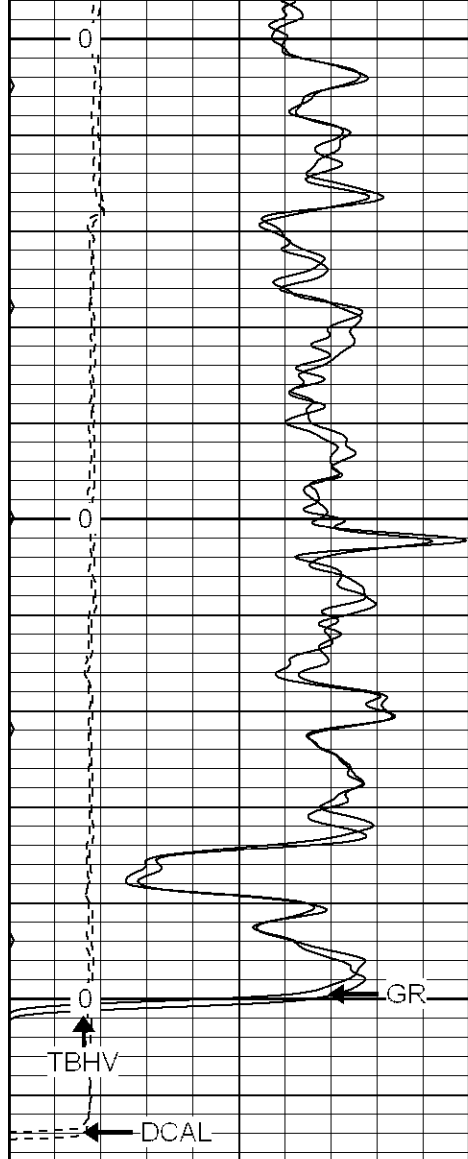
0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16

30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
4000	LTEN-repeat (lb)	0

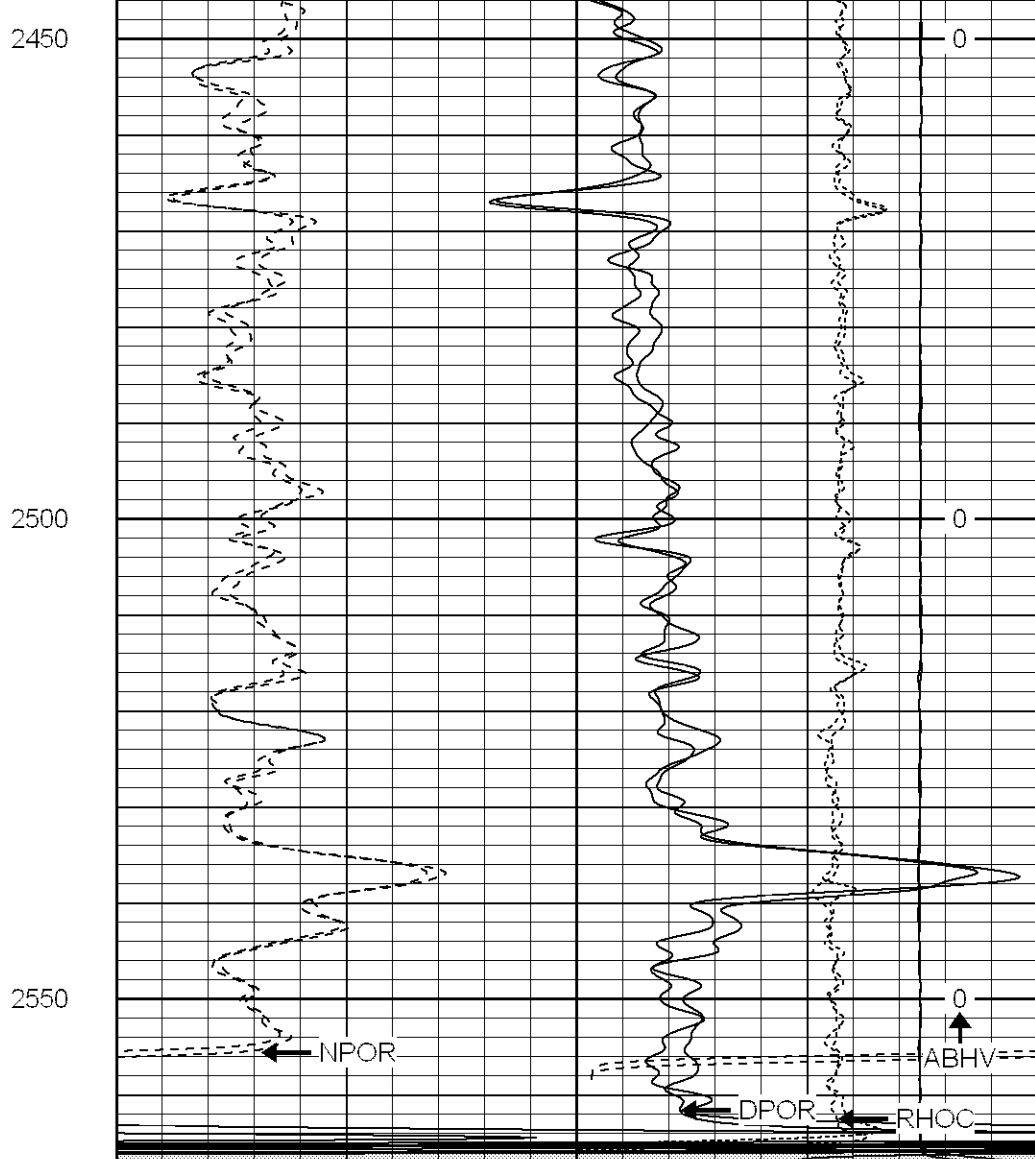


2400





0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16



30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
4000	LTEN-repeat (lb)	0

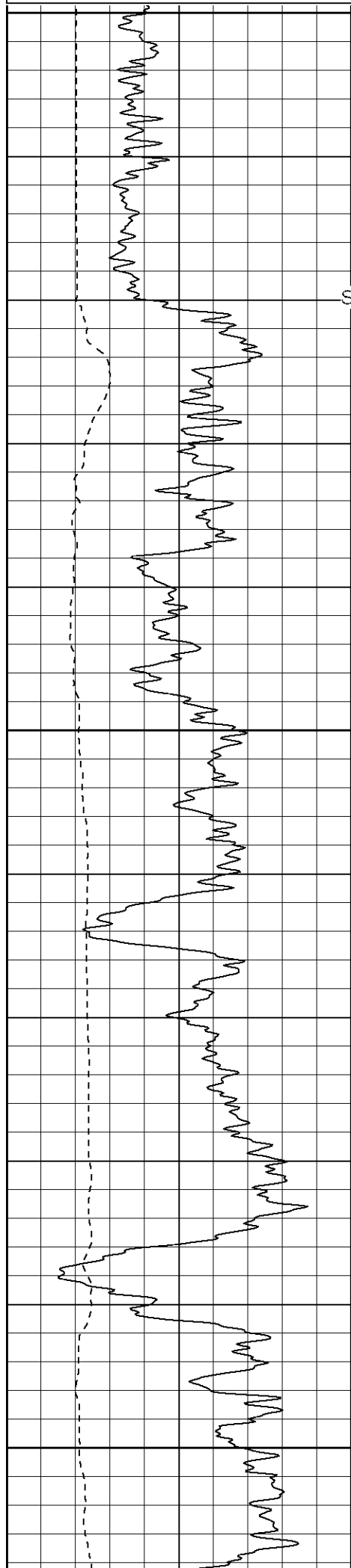
**Patterson**

# High Resolution Pass

Database File: xtoac1813.db  
 Dataset Pathname: pass5.2  
 Presentation Format: cdlhr  
 Dataset Creation: Mon Aug 28 08:56:02 2006 by Calc Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:120

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

1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5

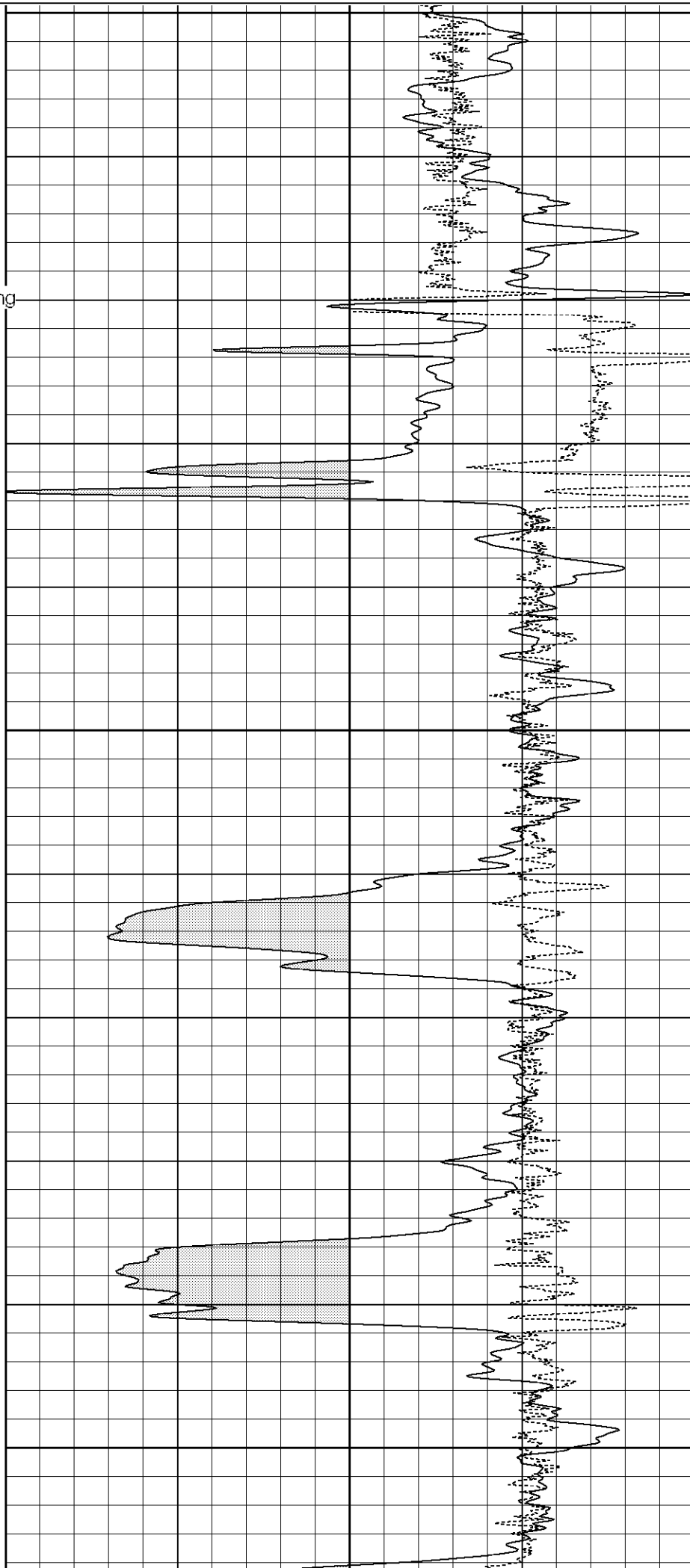


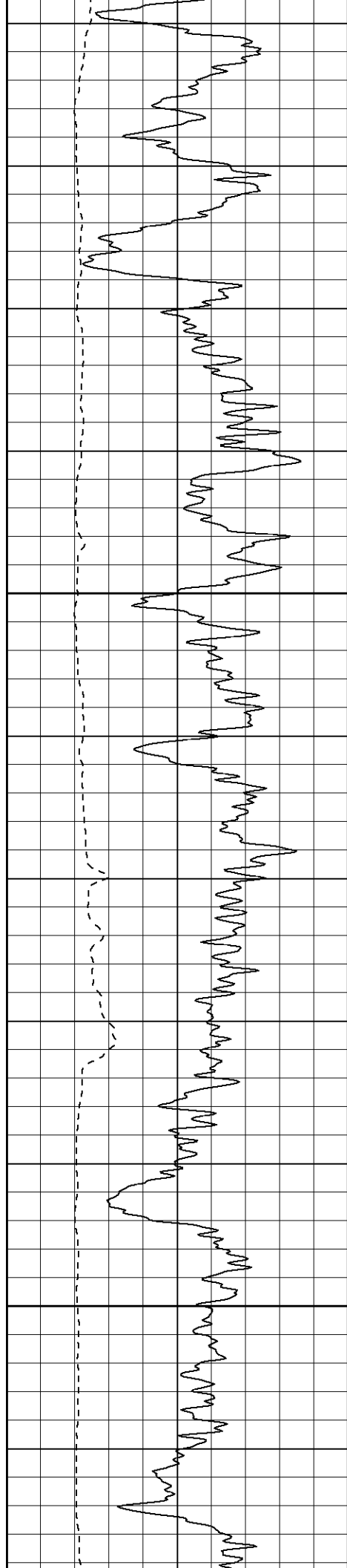
Surface Casing

750

800

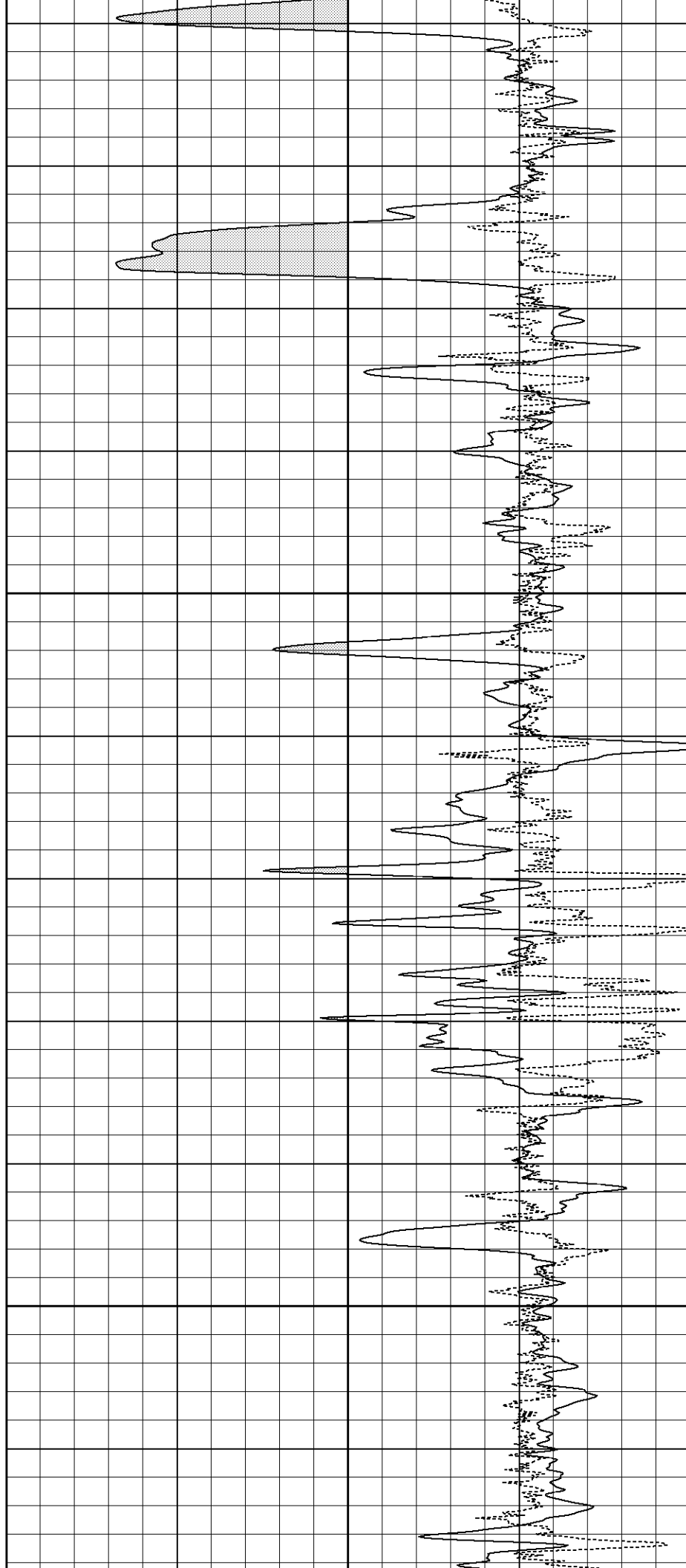
850

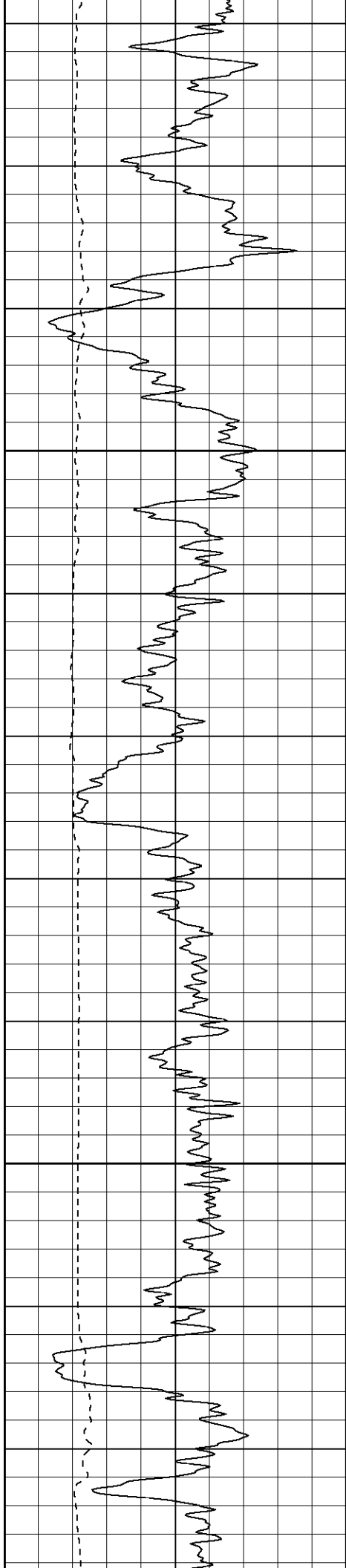




900

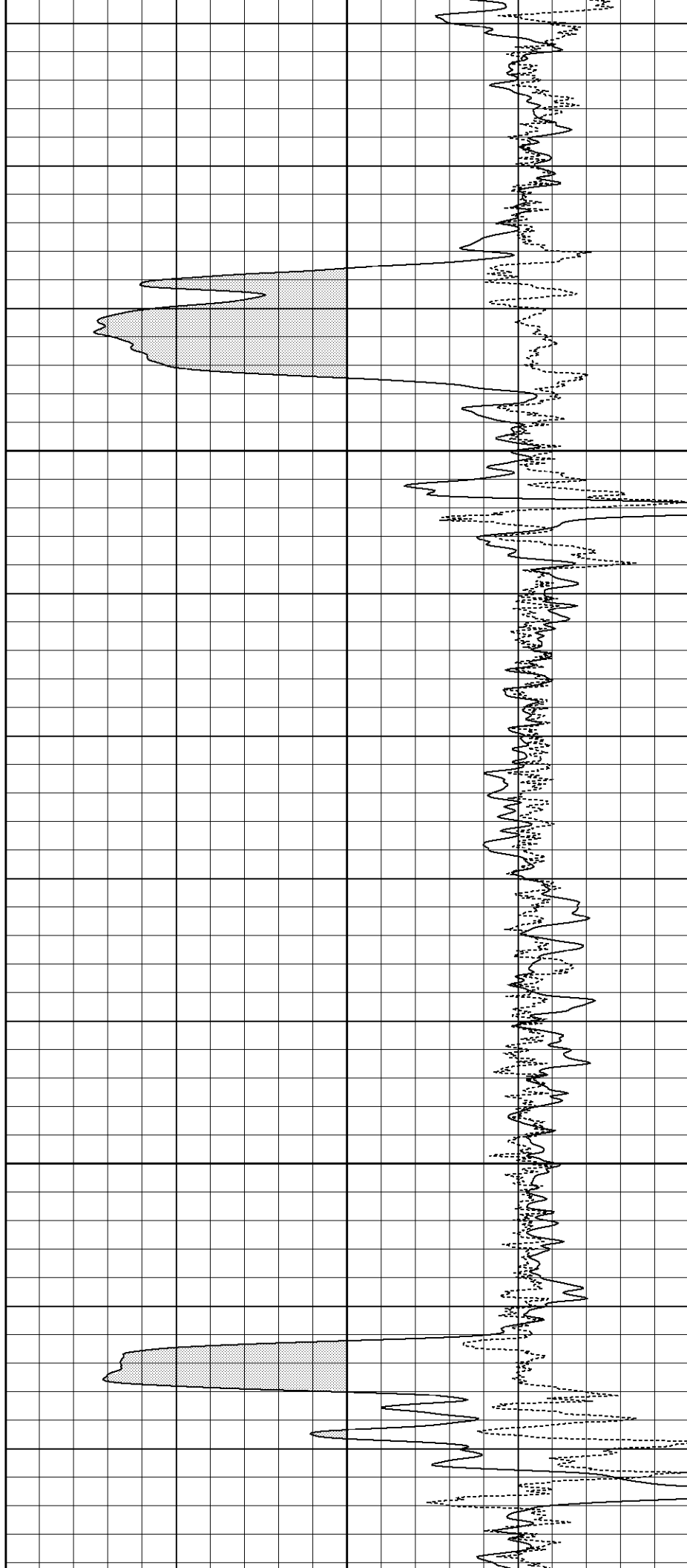
950

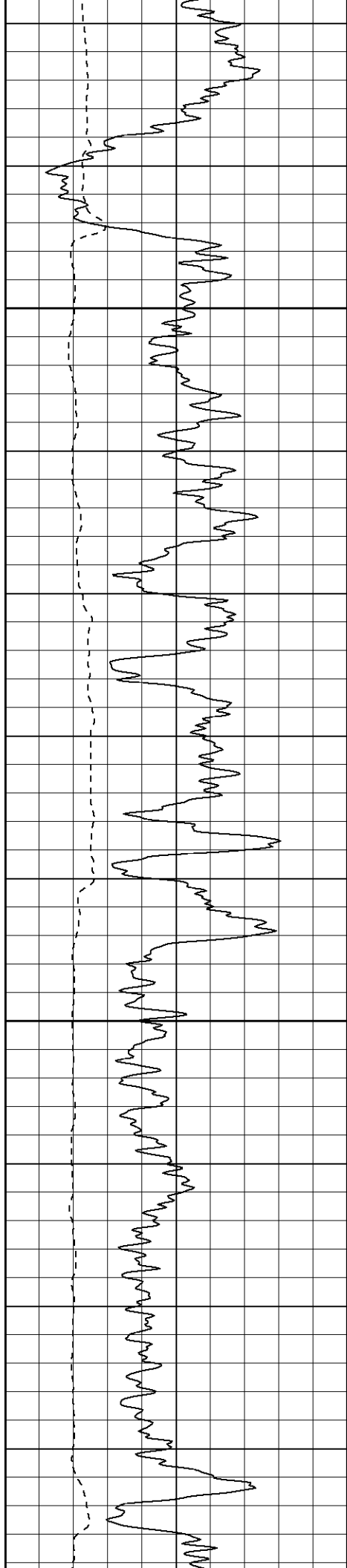




1000

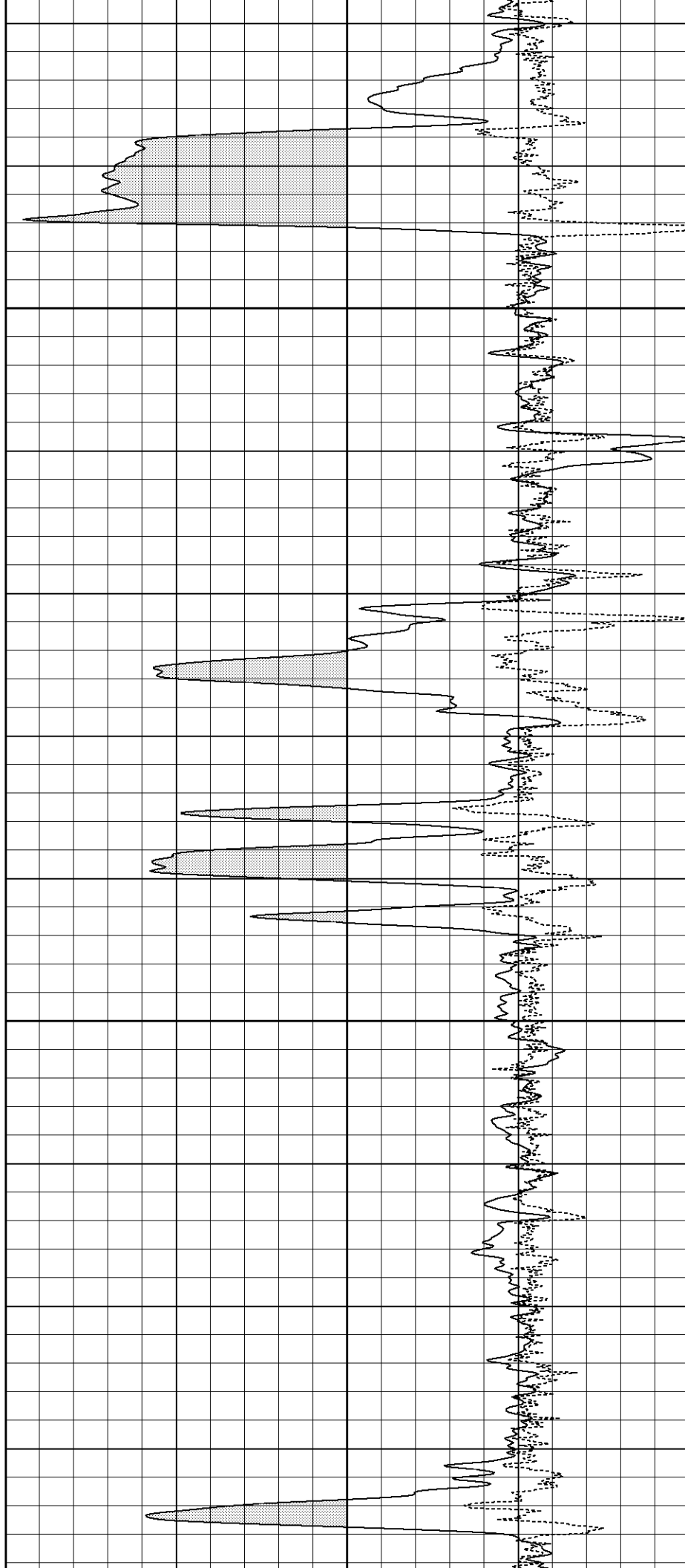
1050





1100

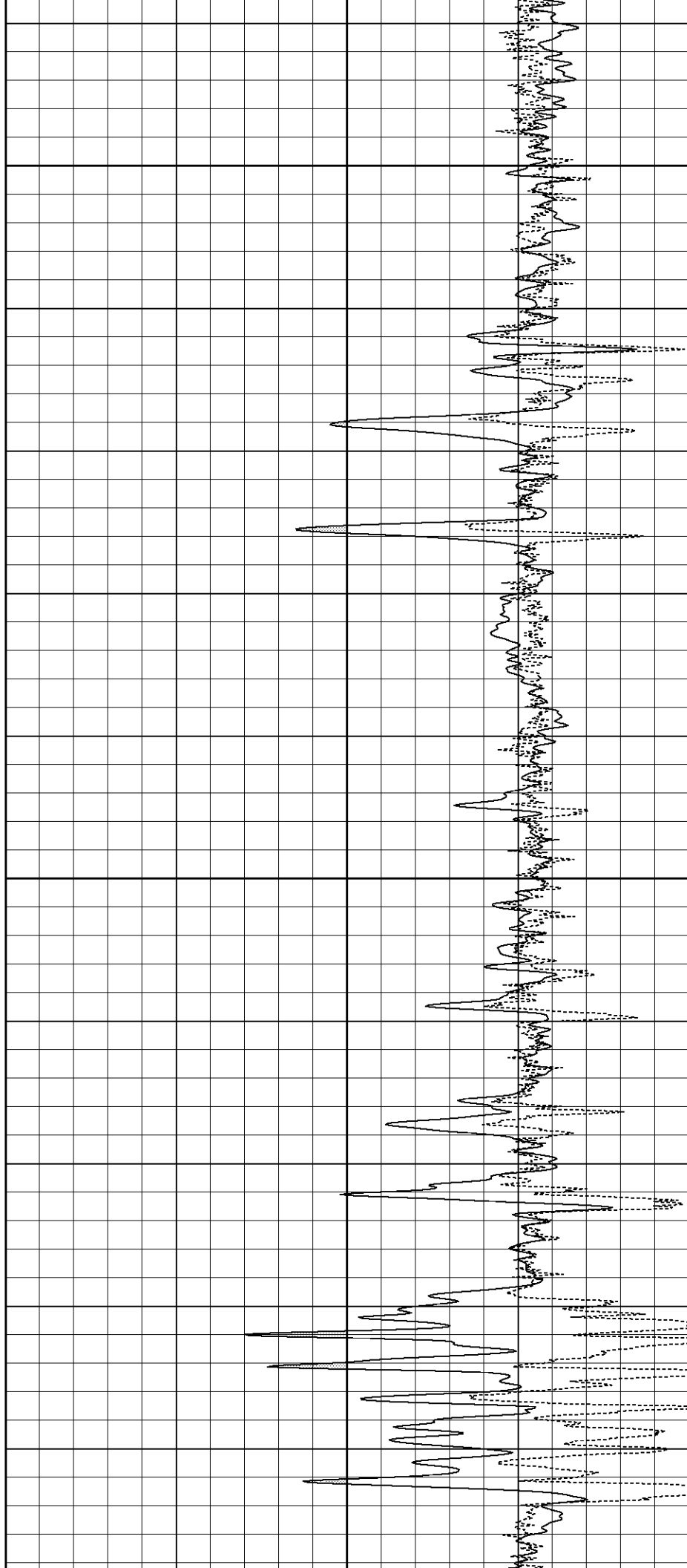
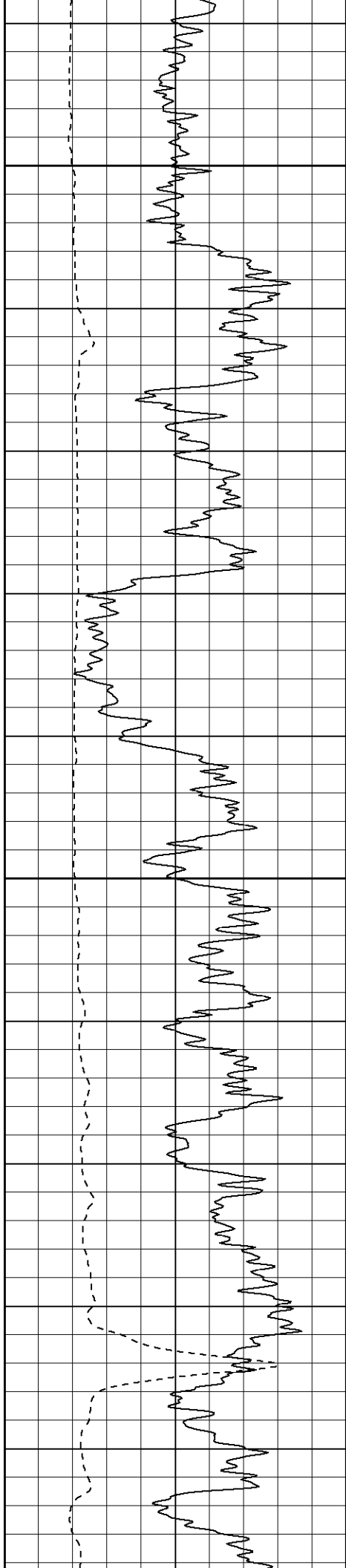
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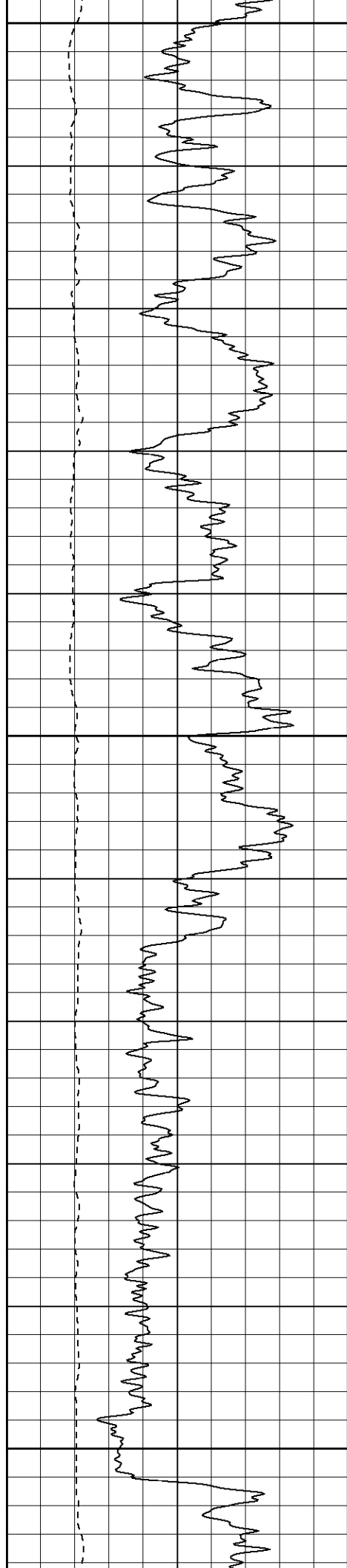




1200

1250

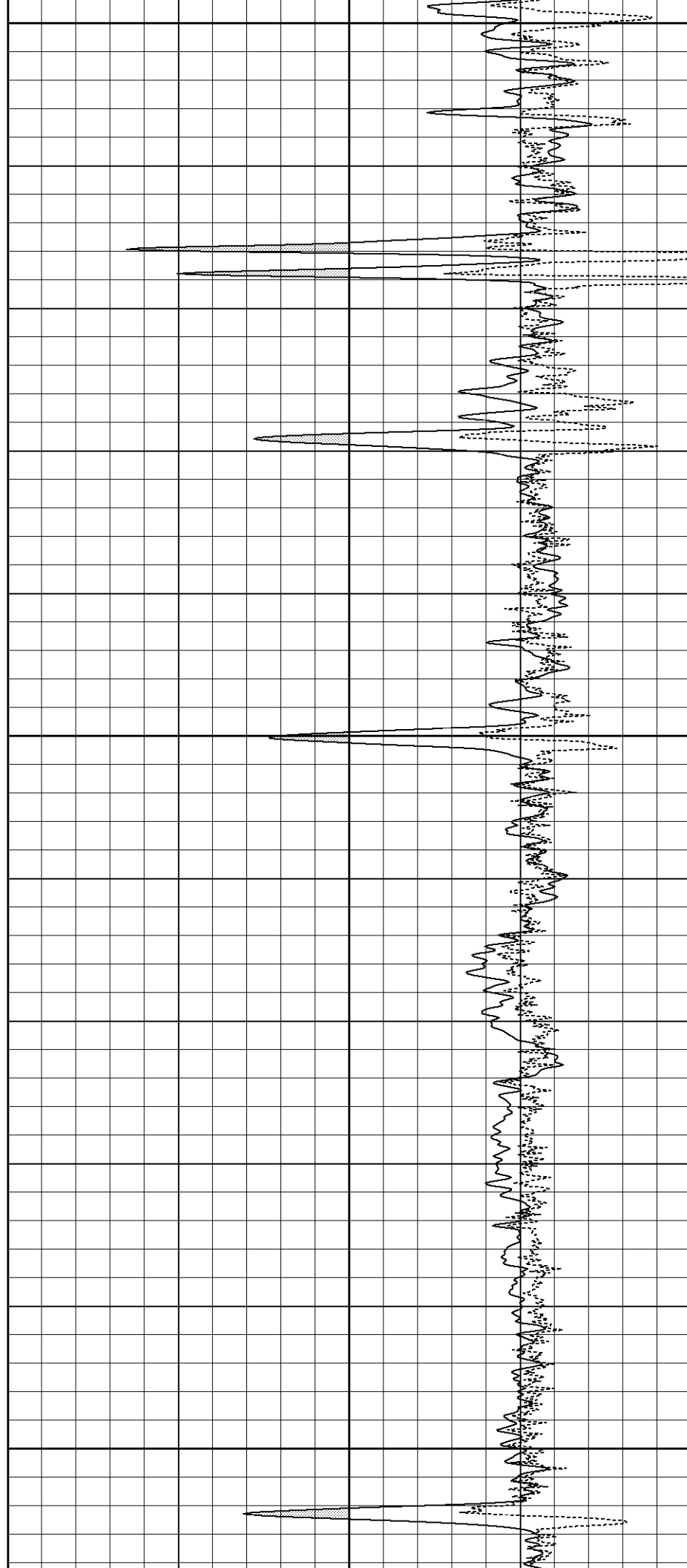


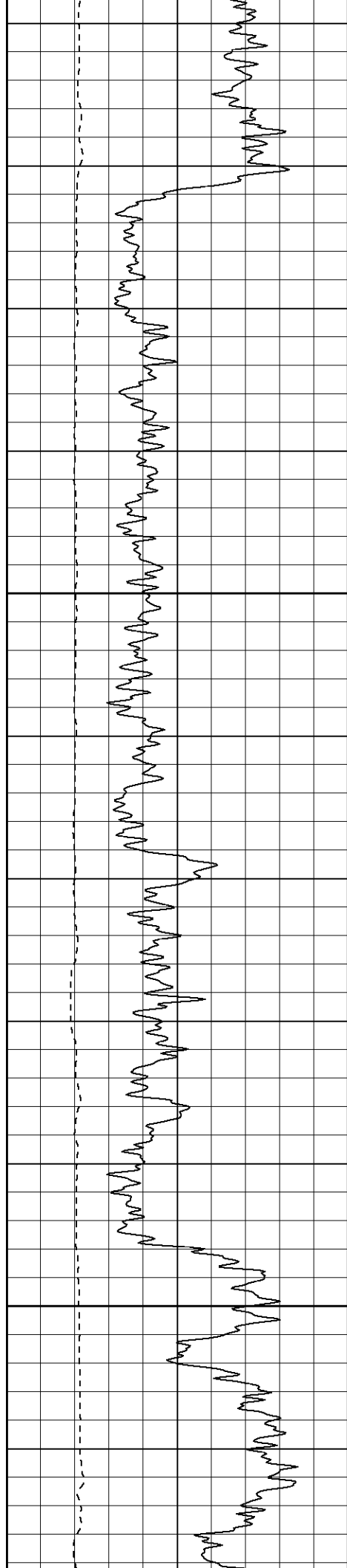


1300

1350

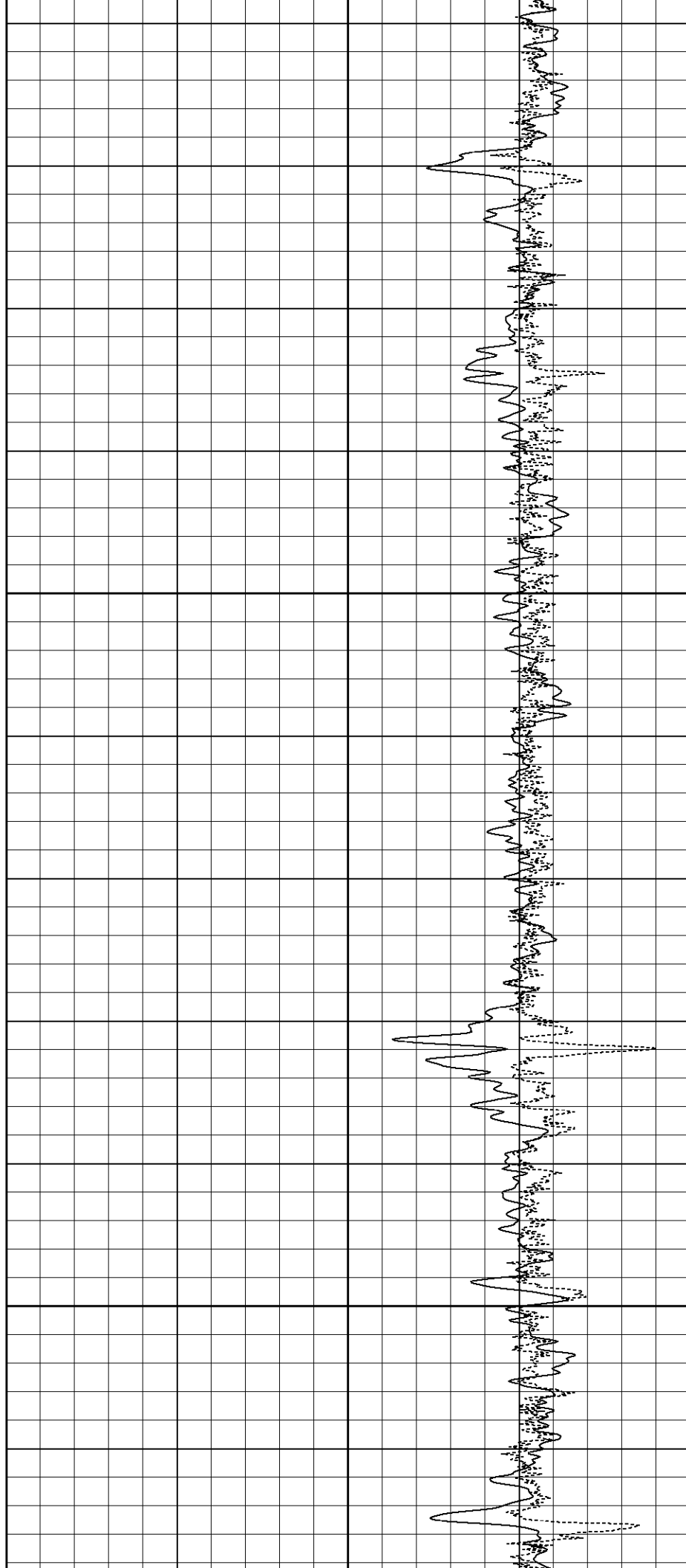
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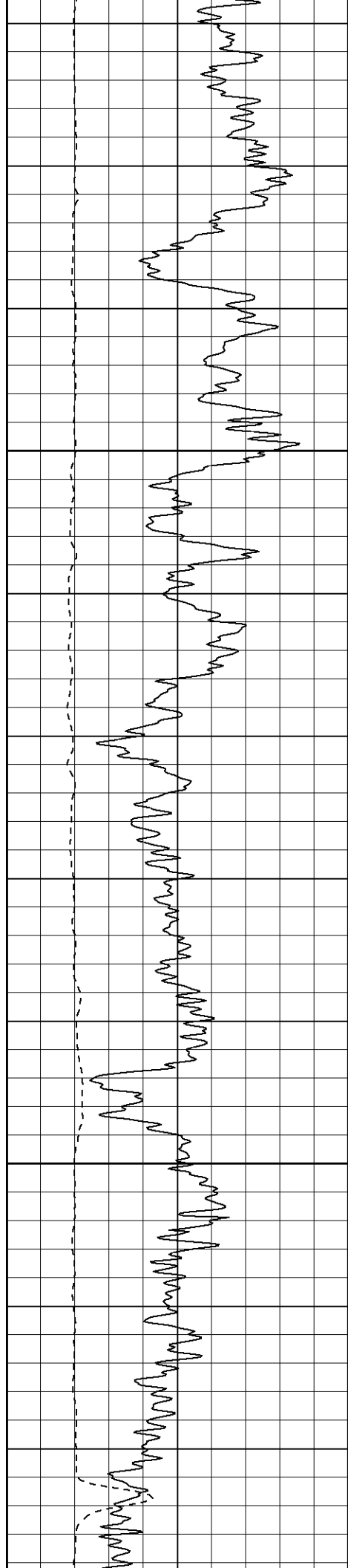




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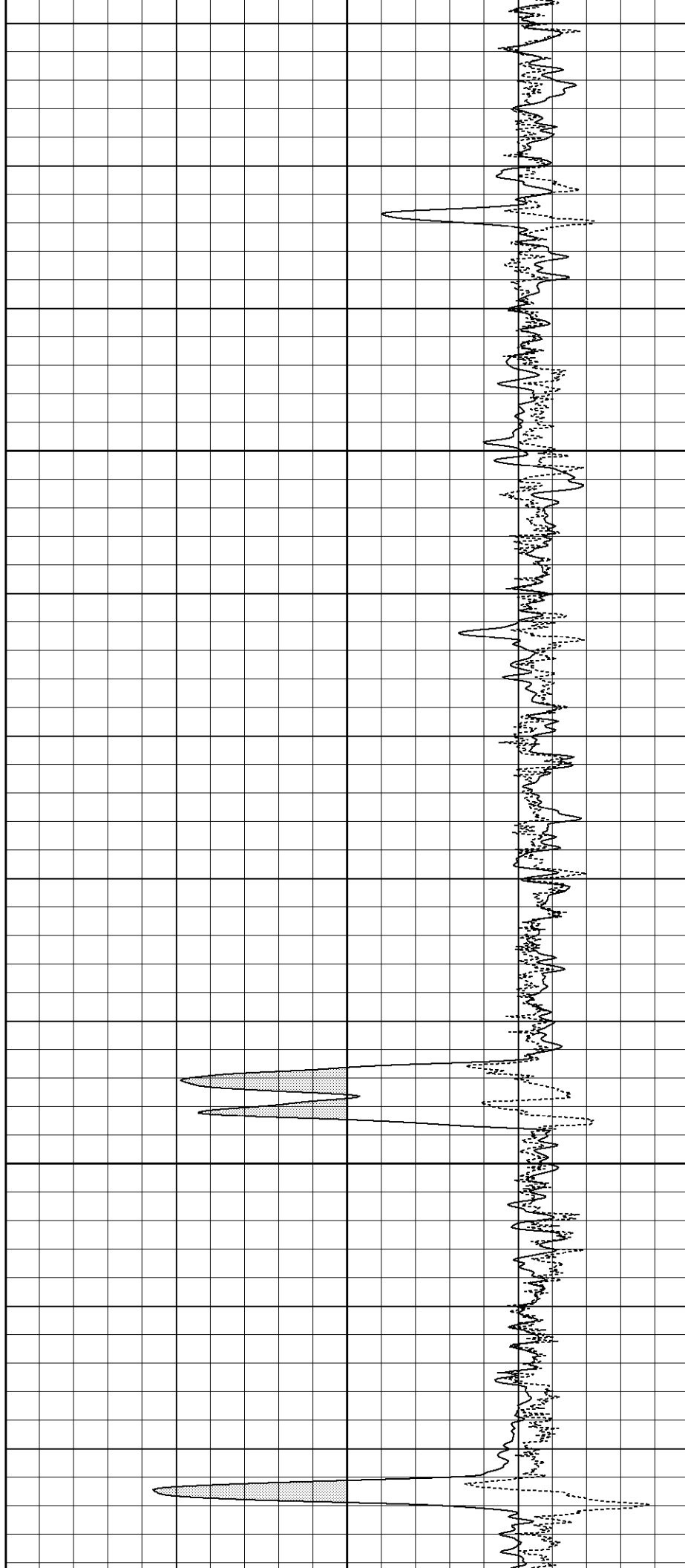
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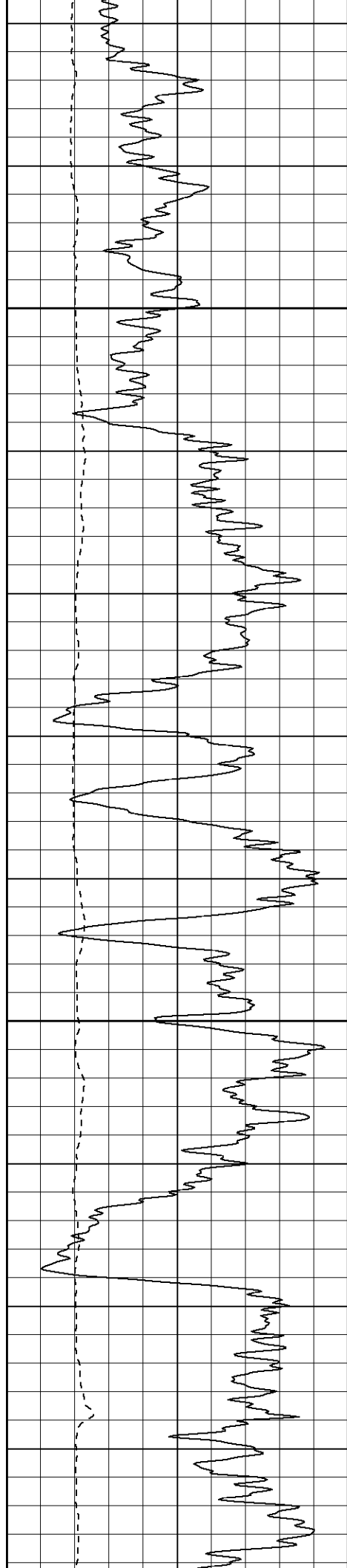




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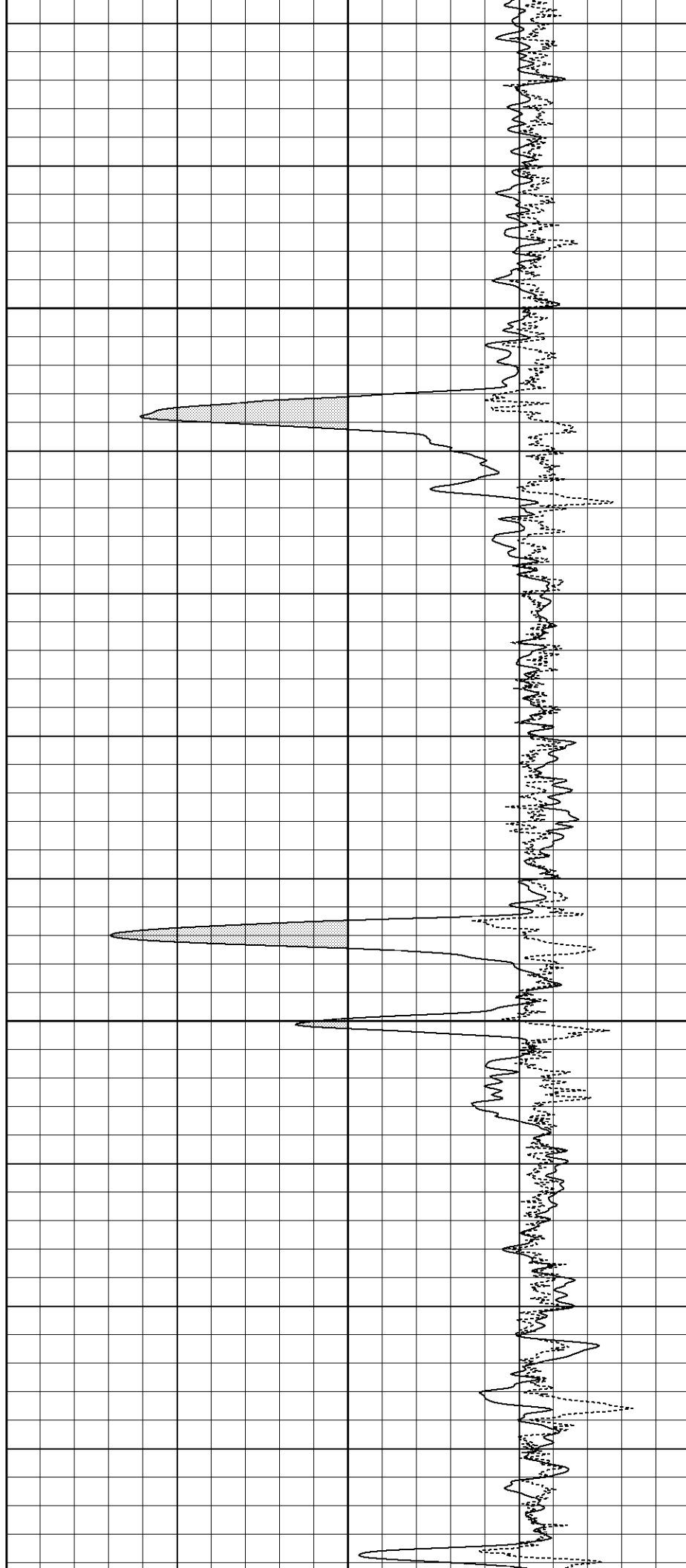
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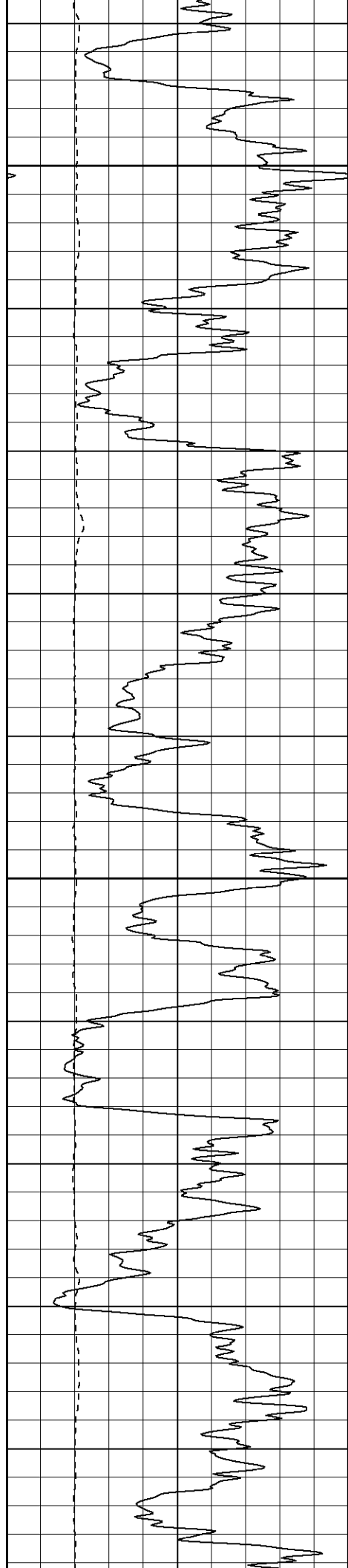




1650

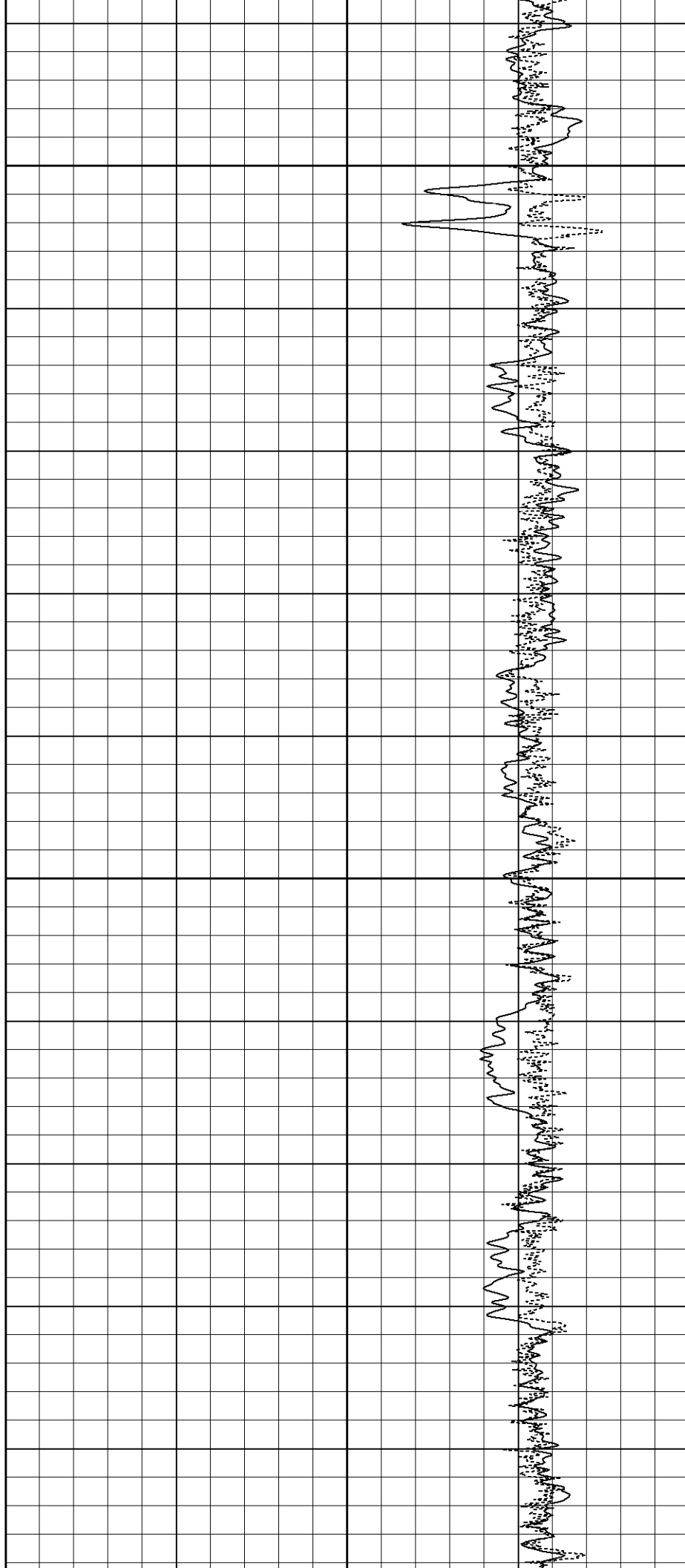
1700





1750

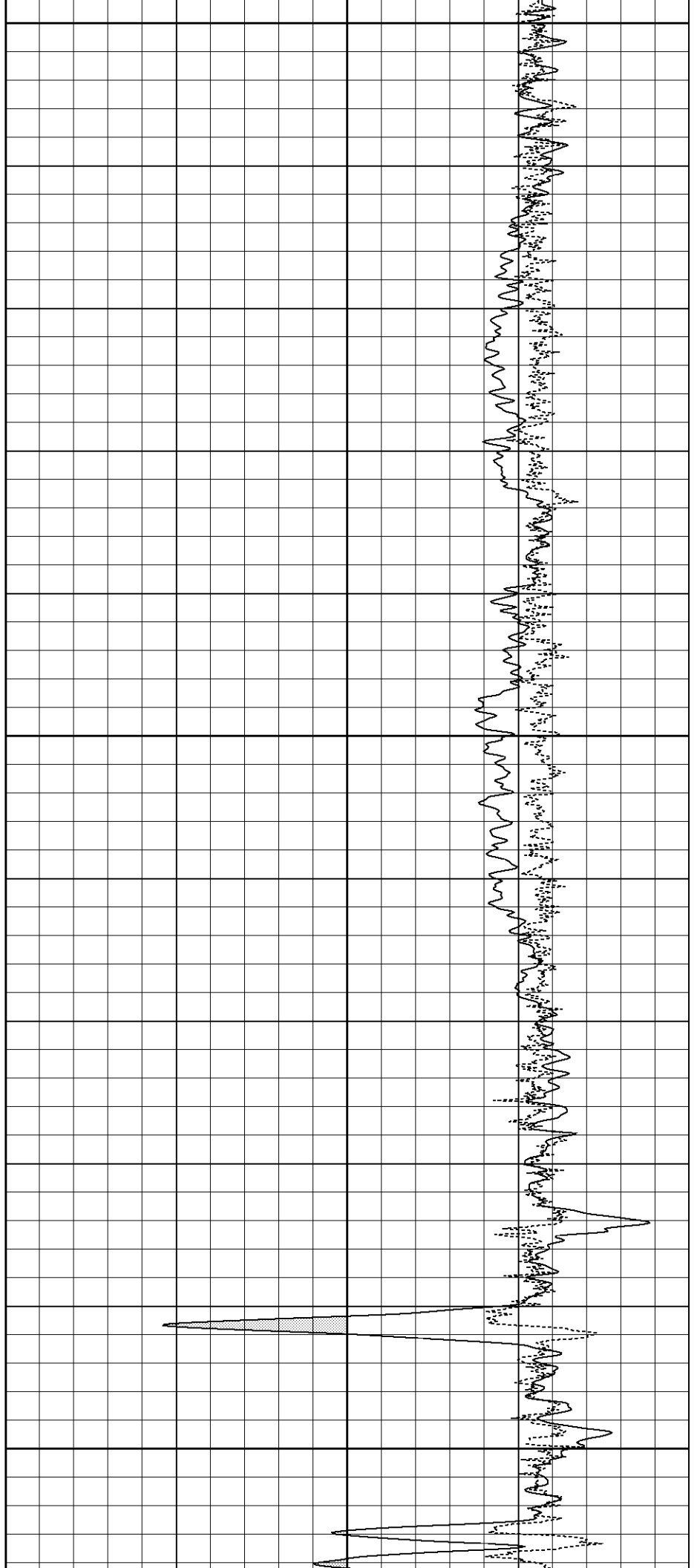
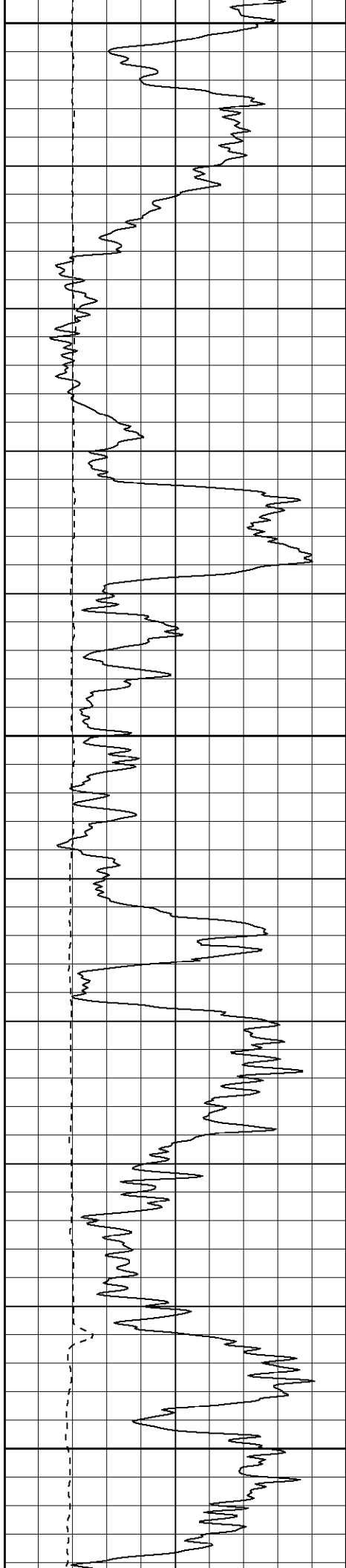
1800

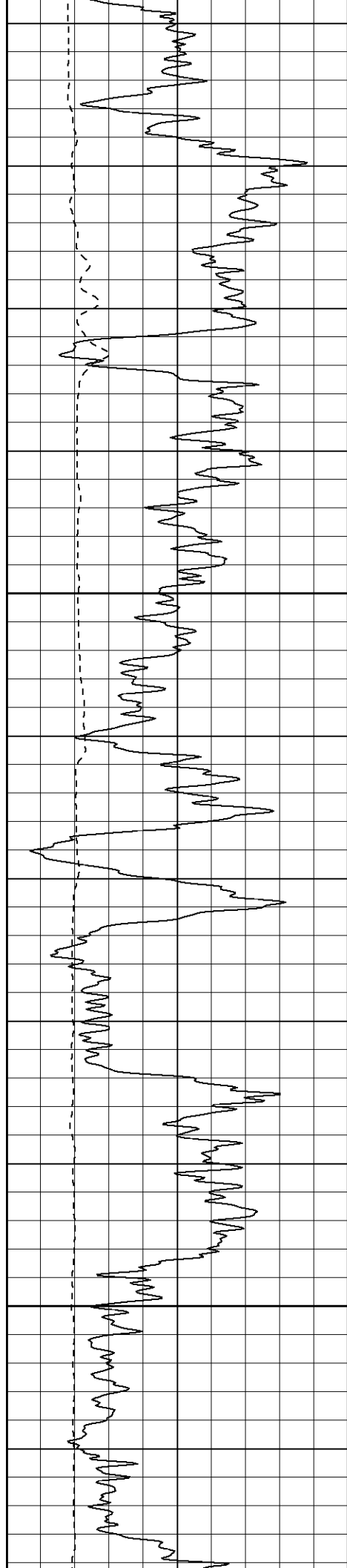


1850

1900

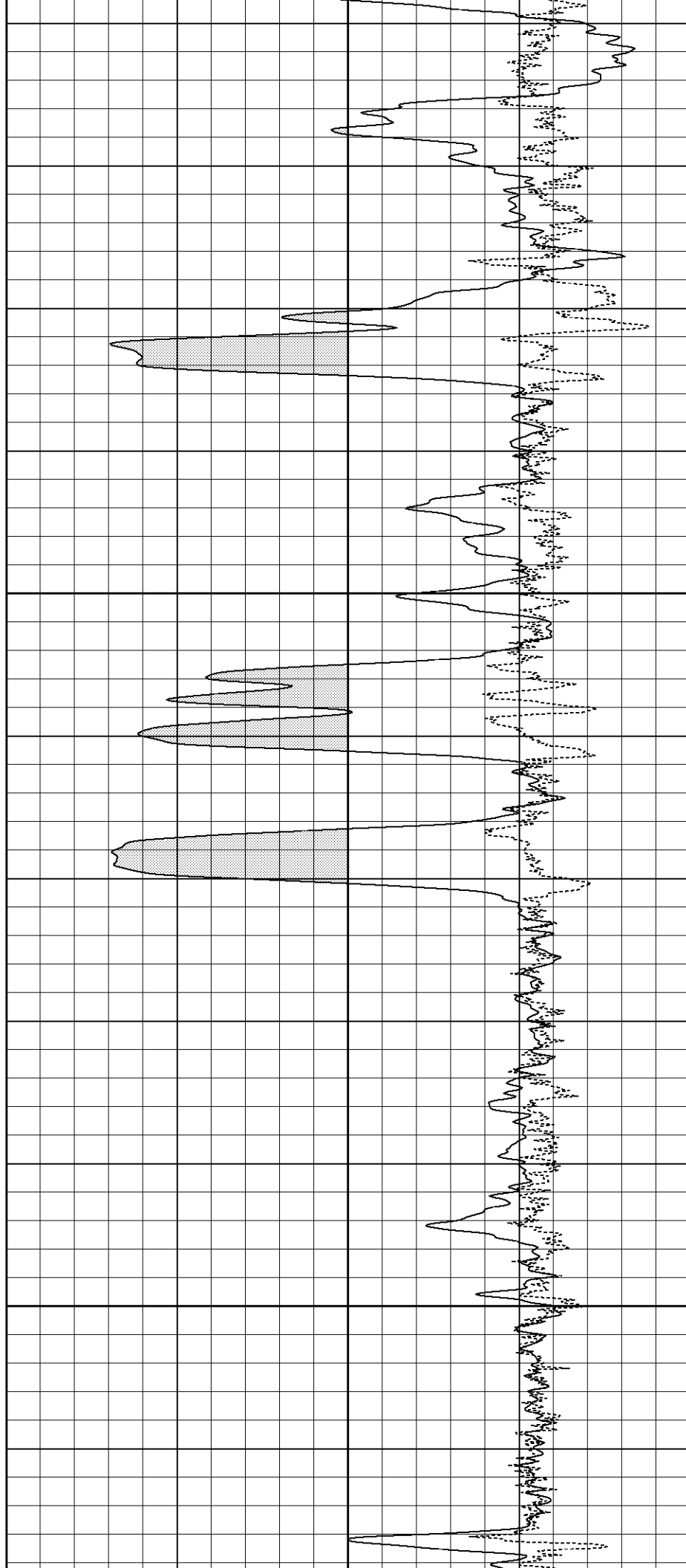
1950



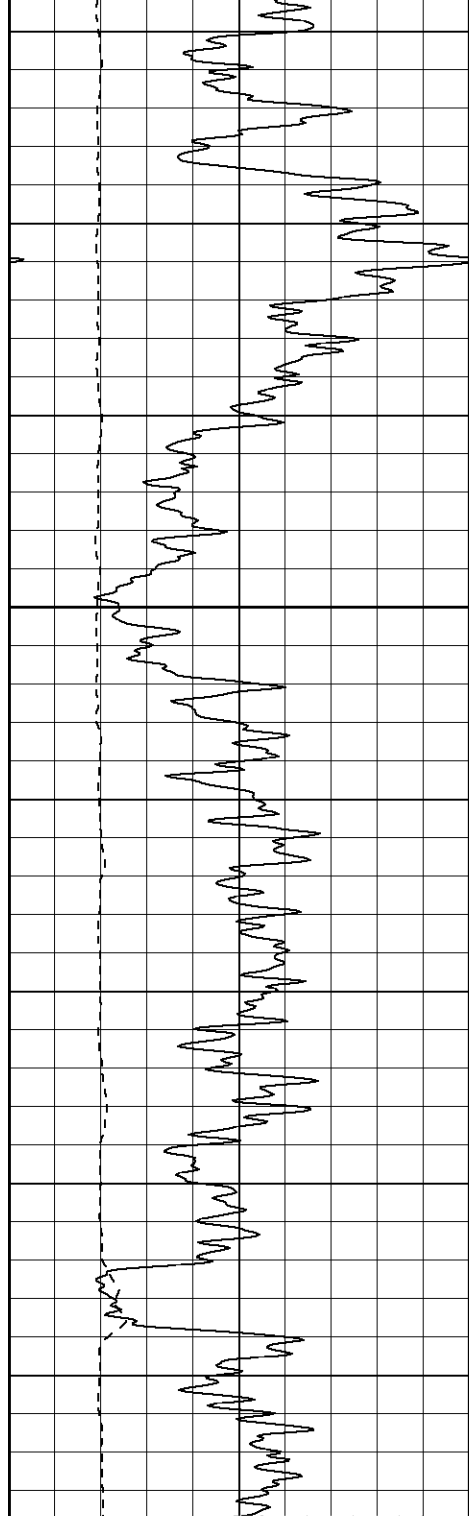


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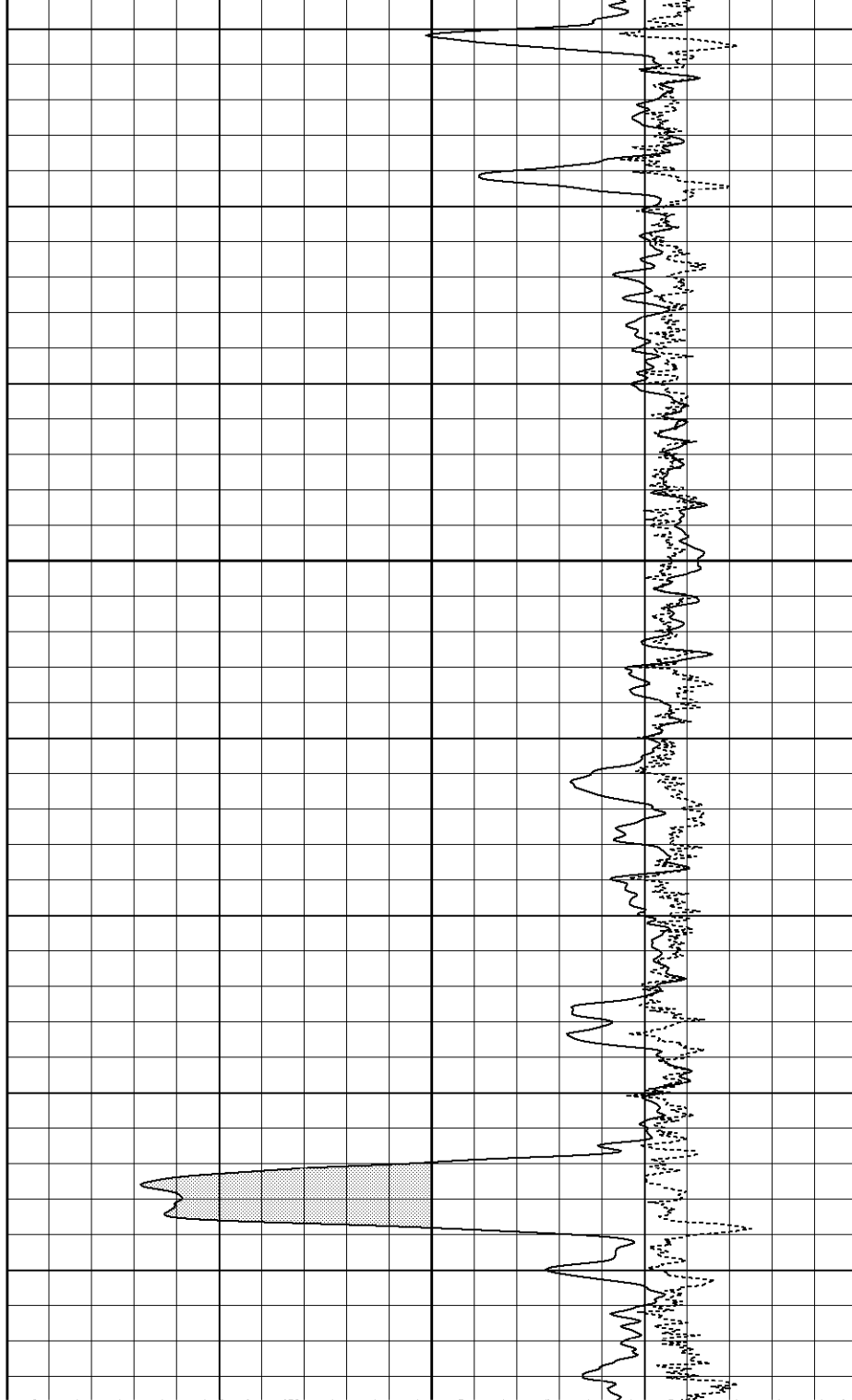
2050





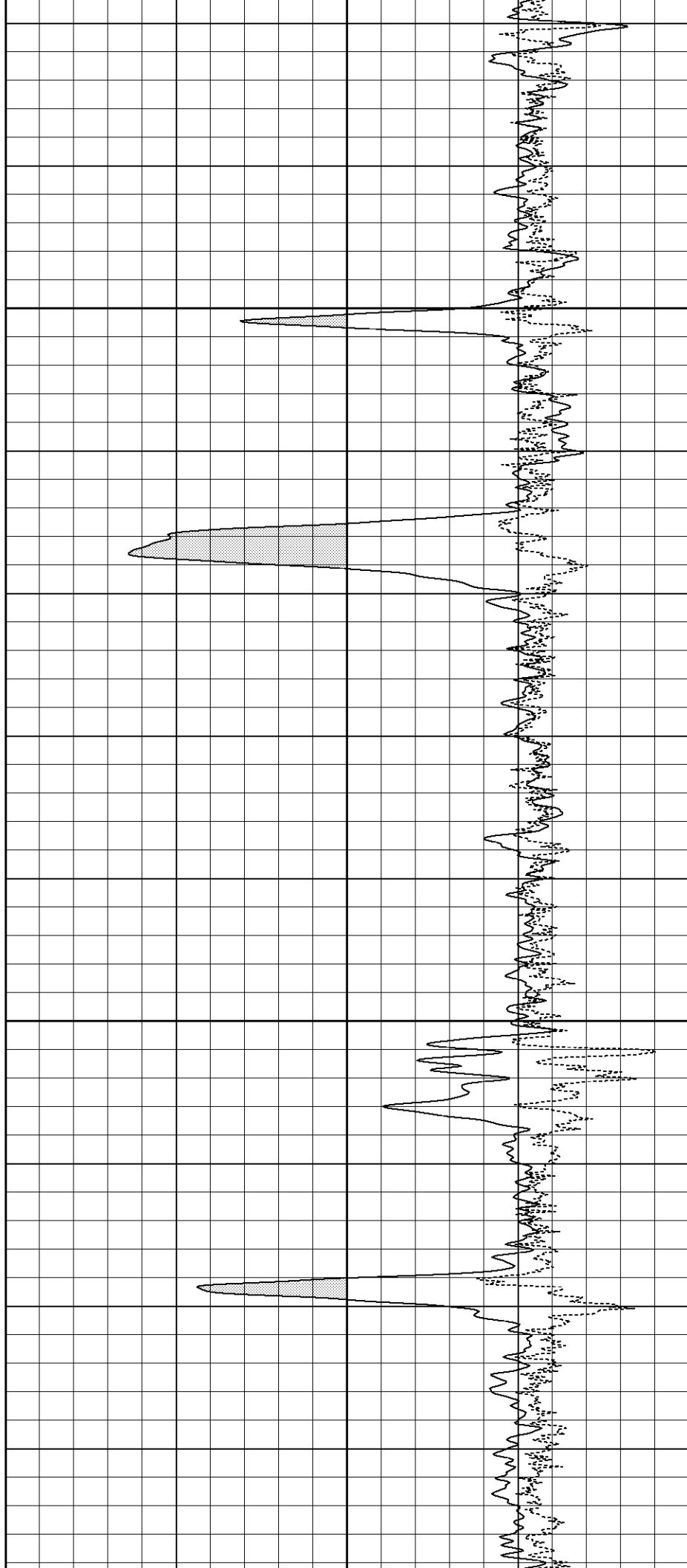
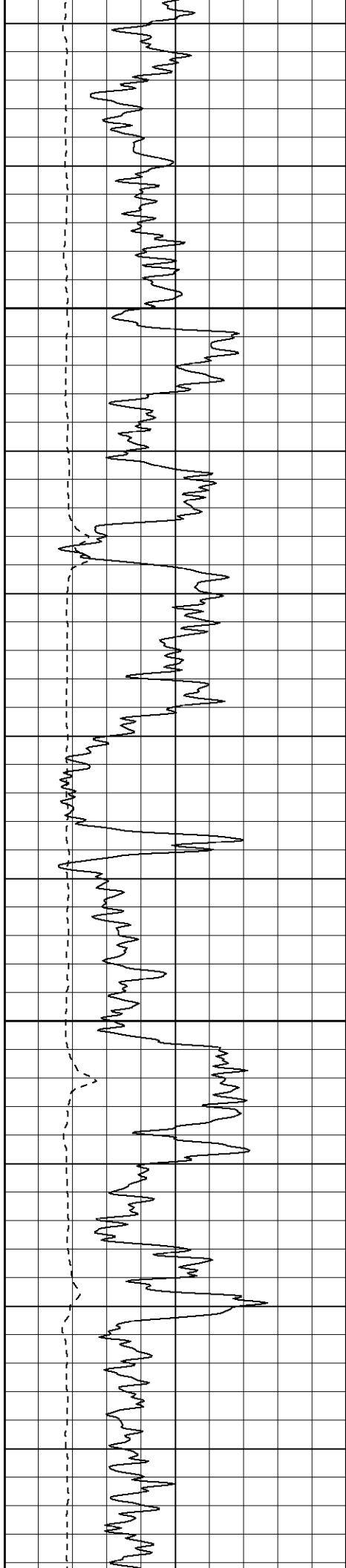


2100



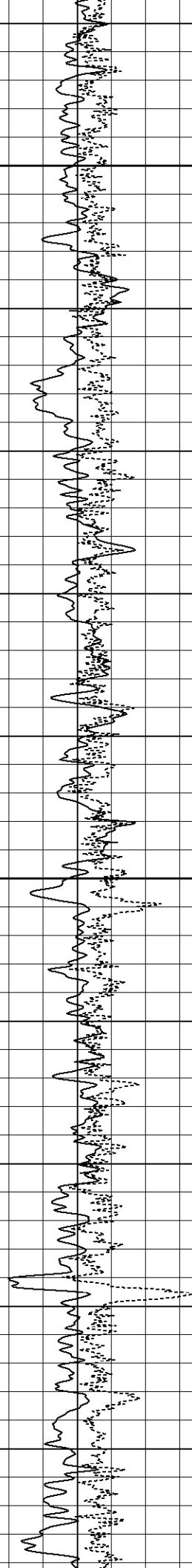
2200

2250



2300

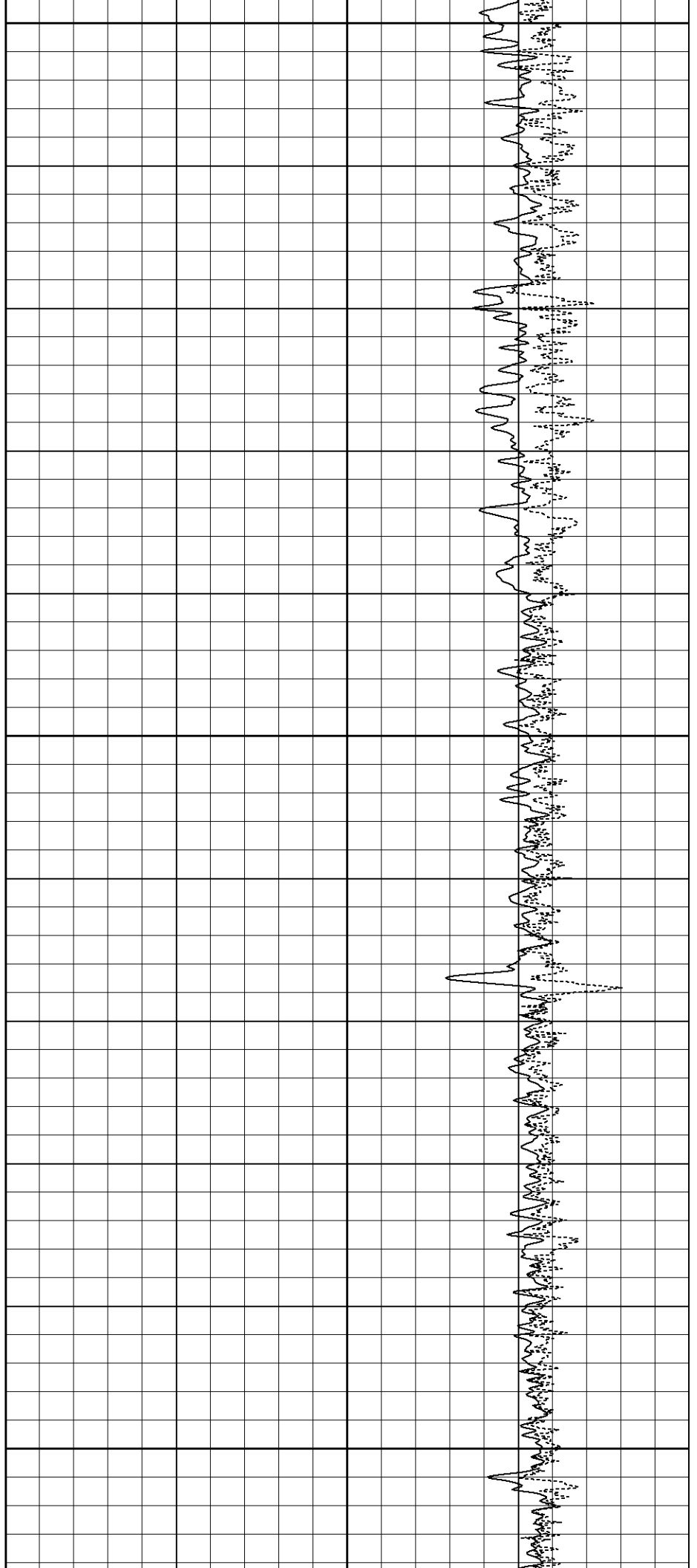
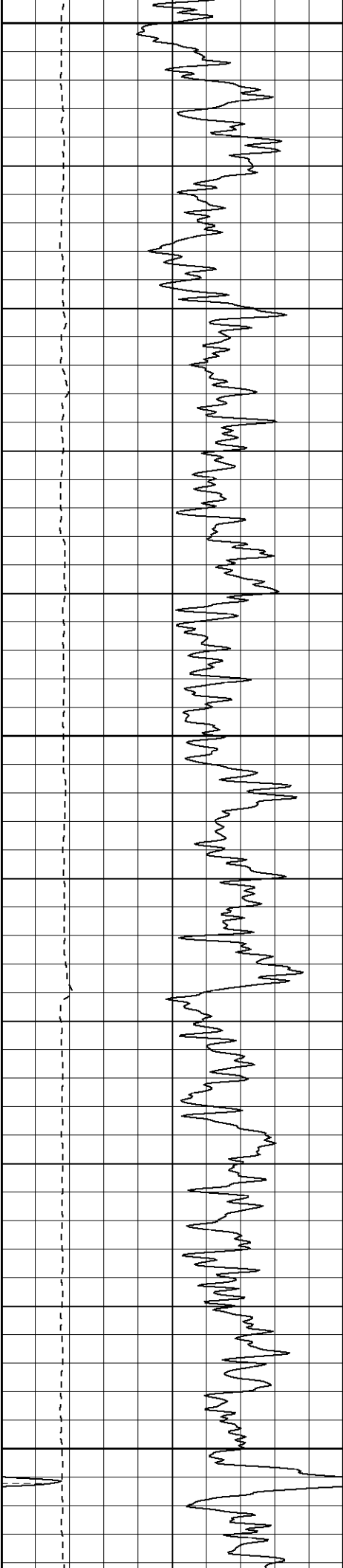
2350

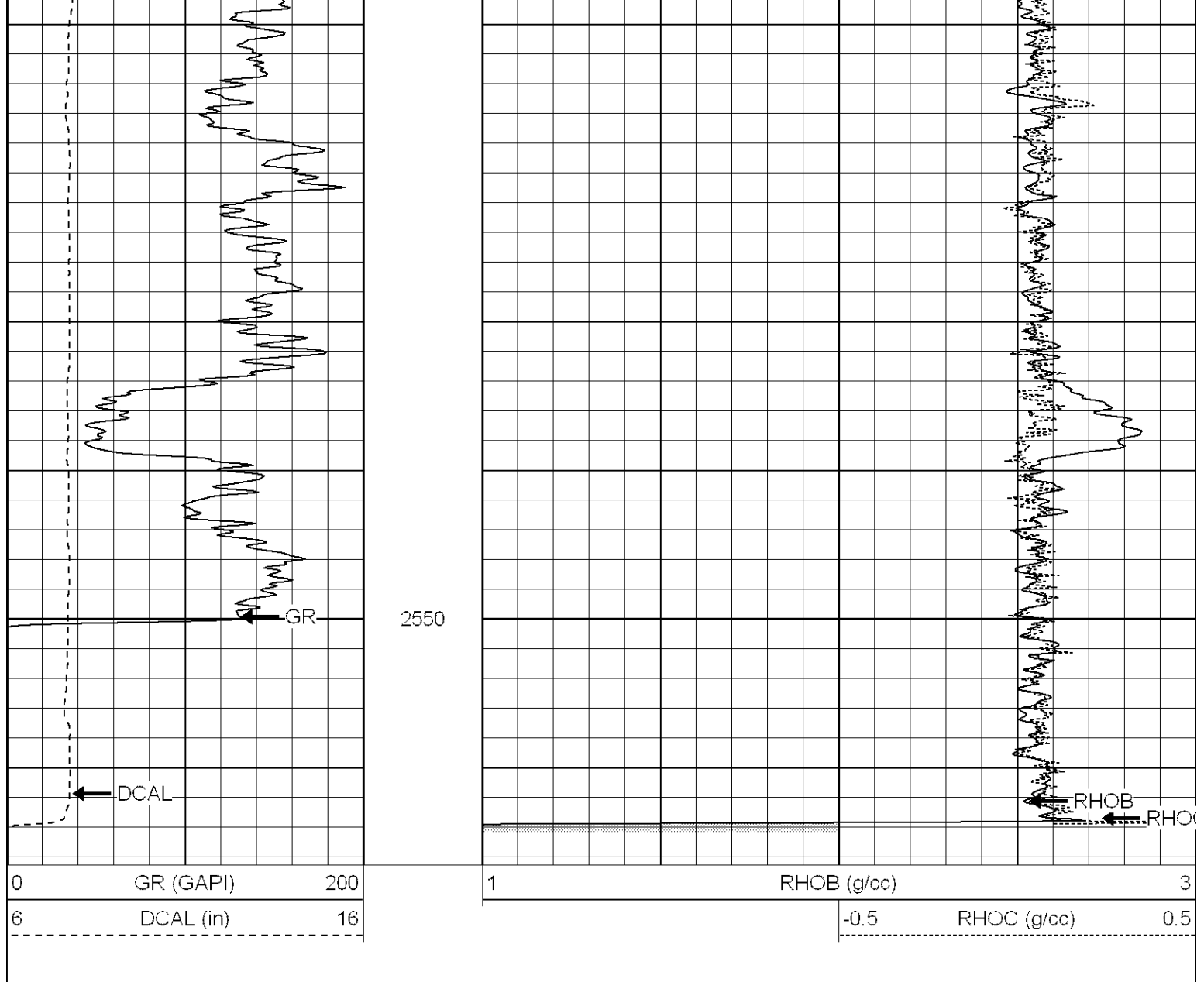


2400

2450

2500





### Compensated Density Calibration Report

Serial-Model: 902-2.75POH  
 Source / Verifier: /  
 Master Calibration Performed: Mon Aug 07 09:58:44 2006

#### Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1017.78	494.16	cps
Aluminum	2.590	g/cc	182.34	245.43	cps

Spine Angle = 67.85

Density/Spine Ratio = 0.474

	Size		Reading	
Small Ring	8.10	in	1.84	V
Large Ring	17.00	in	4.32	V

### Neutron Calibration Report

Serial Number: 802  
 Tool Model: 2.75POH

Performed:	Thu Aug 24 12:48:24 2006	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

## Gamma Ray Calibration Report

Serial Number:	804	
Tool Model:	2.75POH	
Performed:	Mon Aug 21 14:48:38 2006	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8100	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	17.66		None	0.75	1.50	5.00
GR	16.13		GR-2.75POH (804) Probe	3.73	2.75	43.00
NEU	10.58		NEU-2.75POH (802) Probe Epithermal	4.75	2.75	58.00
CDL	8.43		CDL-2.75POH (902) Probe	8.43	2.75	106.00
LSD	2.75					
DCAL	2.48					
SSD	2.23					
Dataset: /field/well/run1/_plots/_jobs_/cdnl Total Length: 17.66 ft Total Weight: 212.00 lb O.D. 2.75 in						