



SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 30-16
Field Purgatoire River
County Las Animas State Colorado

Location: API #: 05 071 09109 00

294' FSL & 881' FWL

SEC 30 TWP 33S RGE 67W

Permanent Datum Ground Level Elevation 7419'
Log Measured From Ground Level
Drilling Measured From Ground Level

Other Services
dill
Elevation
K.B. -----
D.F. -----
G.L. 7419'

Date 02-24-07

Run Number One

Depth Driller 2050'

Depth Logger 2052'

Bottom Logged Interval 2028'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 500'

Casing Logger 500'

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 10:00 p.m./2-23-07

Time Logger on Bottom 12:05 a.m.

Maximum Recorded Temperature 110

Equipment Number T701

Location Trinidad

Recorded By L. Smith

Witnessed By Mr. Don Johnson

>>> Fold Here >>>

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
Neutron porosity invalid from 1094' to 1320' due to foam.
Turn at Bosque 4mi. past Weston, up Ciruela Canyon, stay right at windmill, next right.



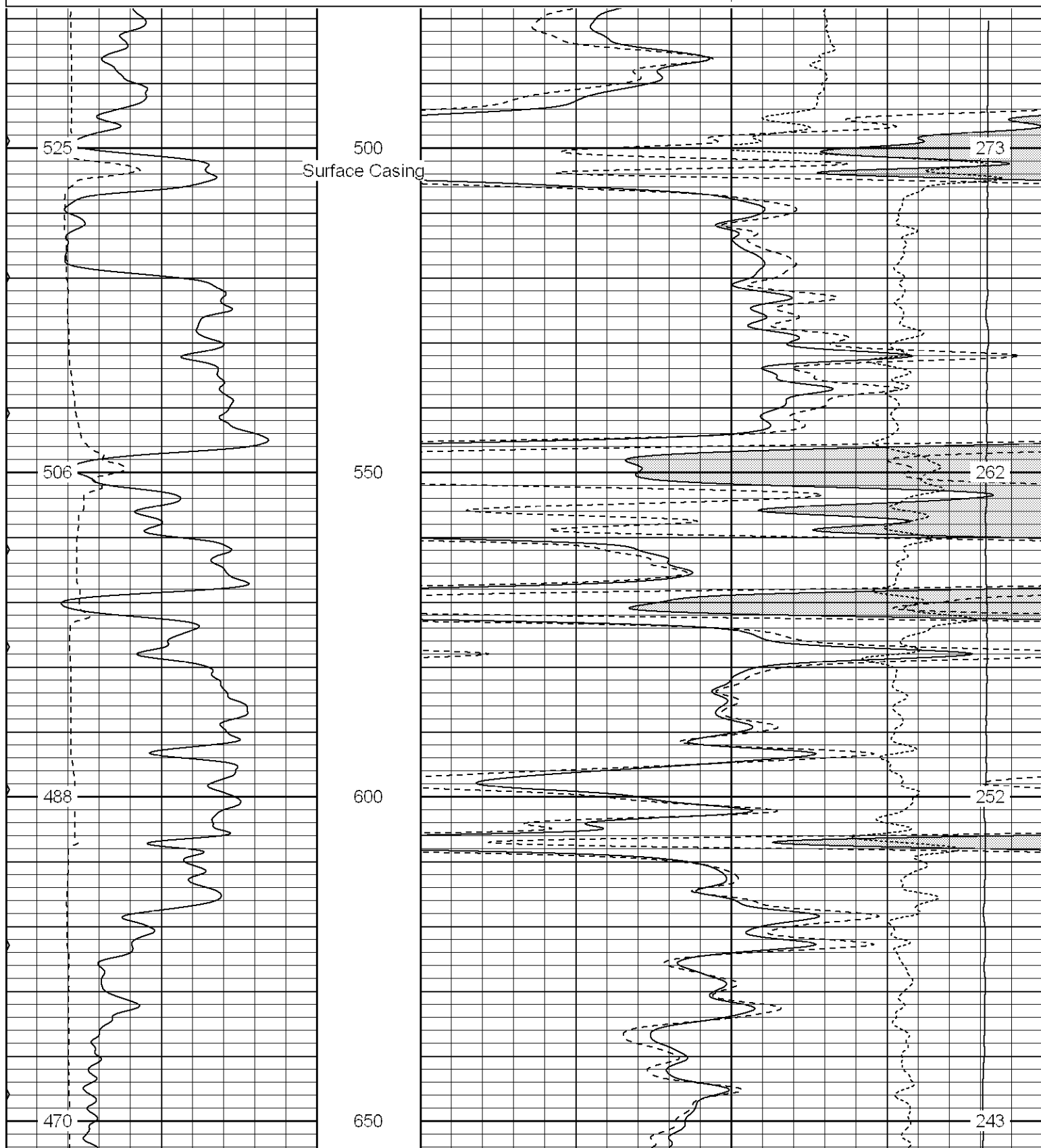
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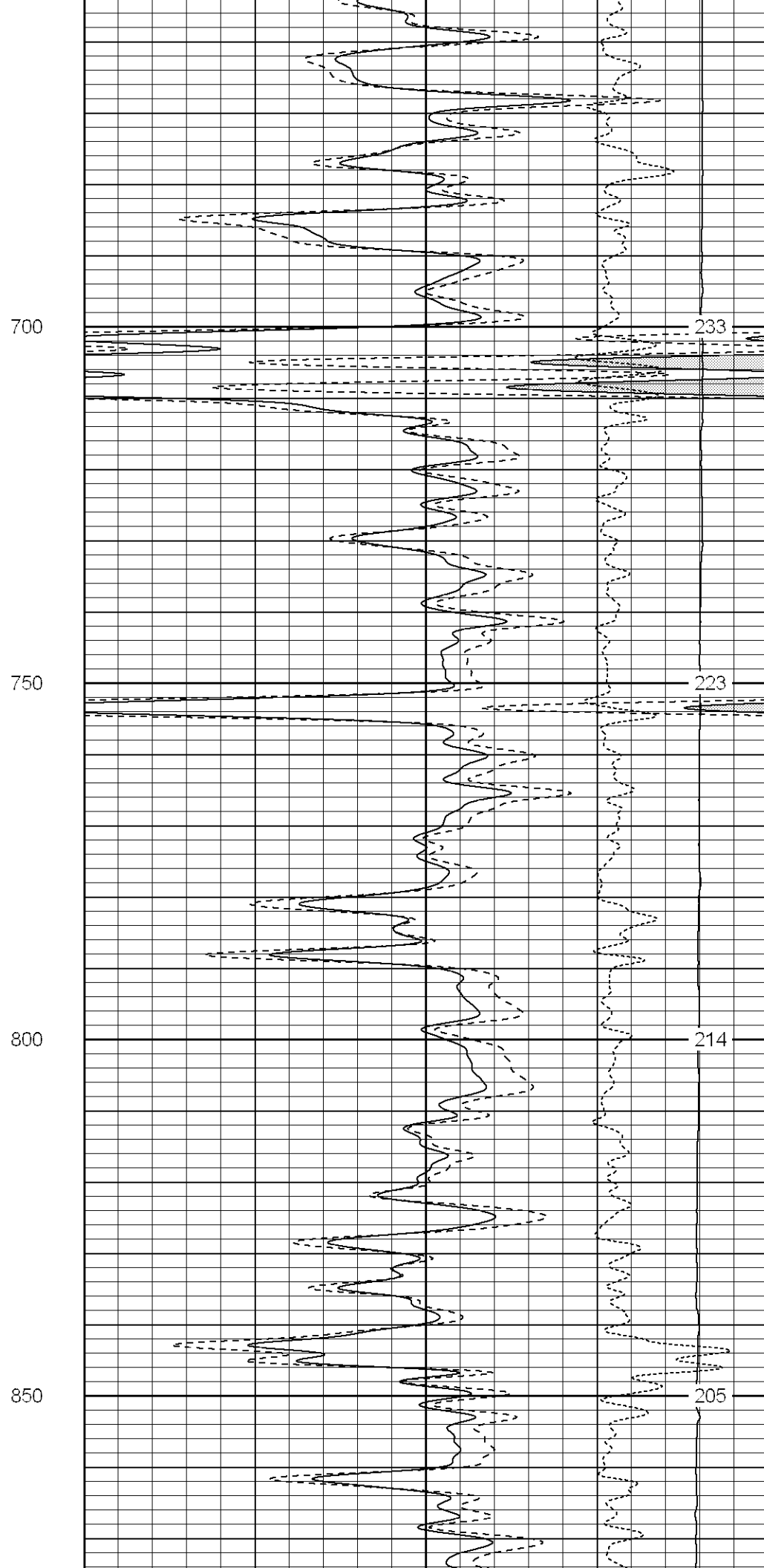
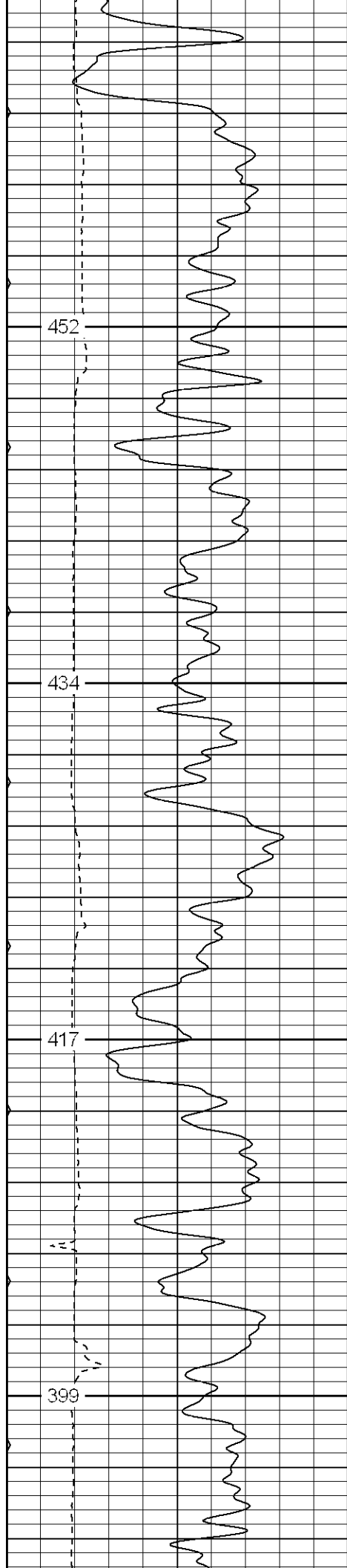
Main Pass

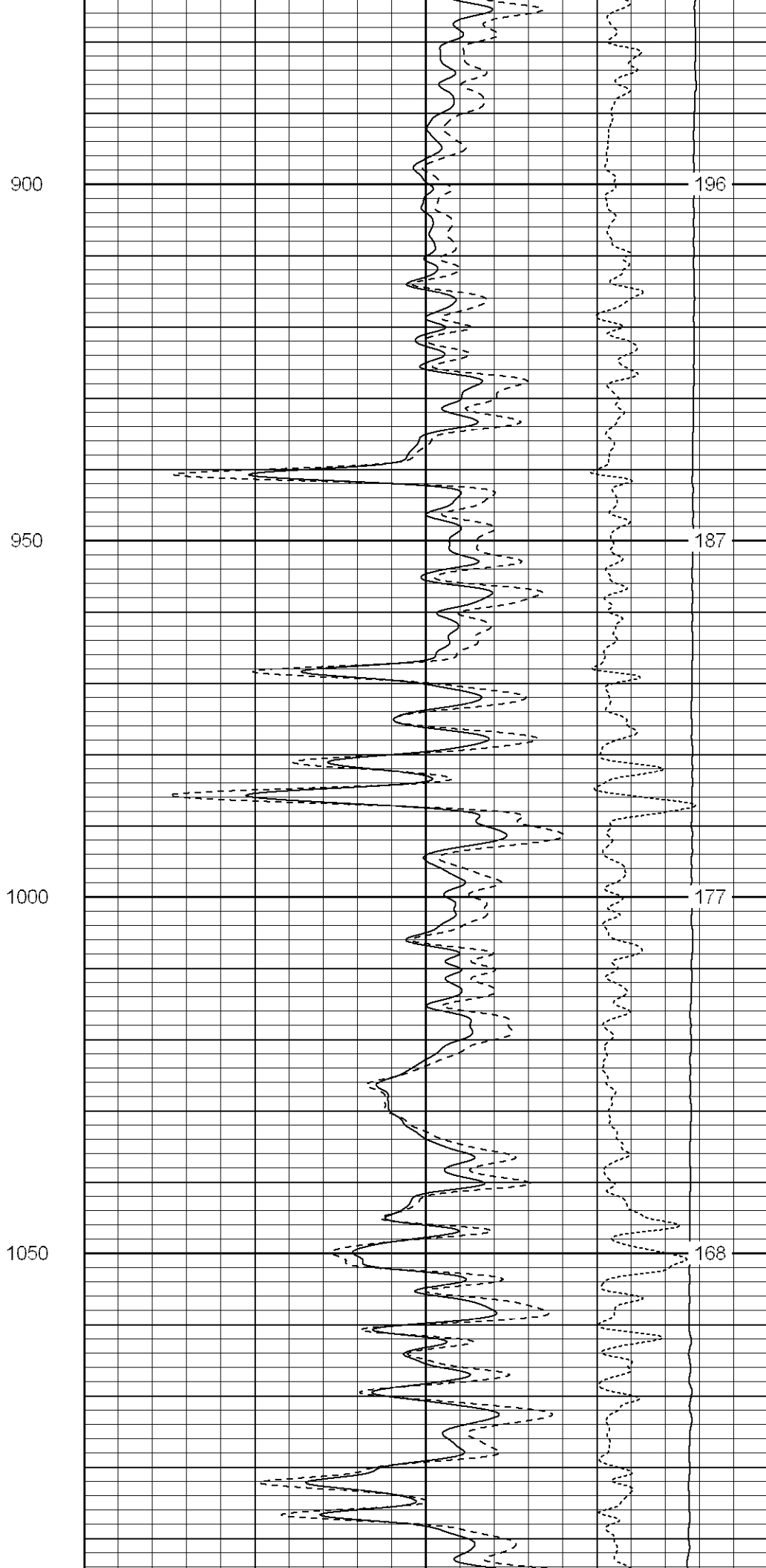
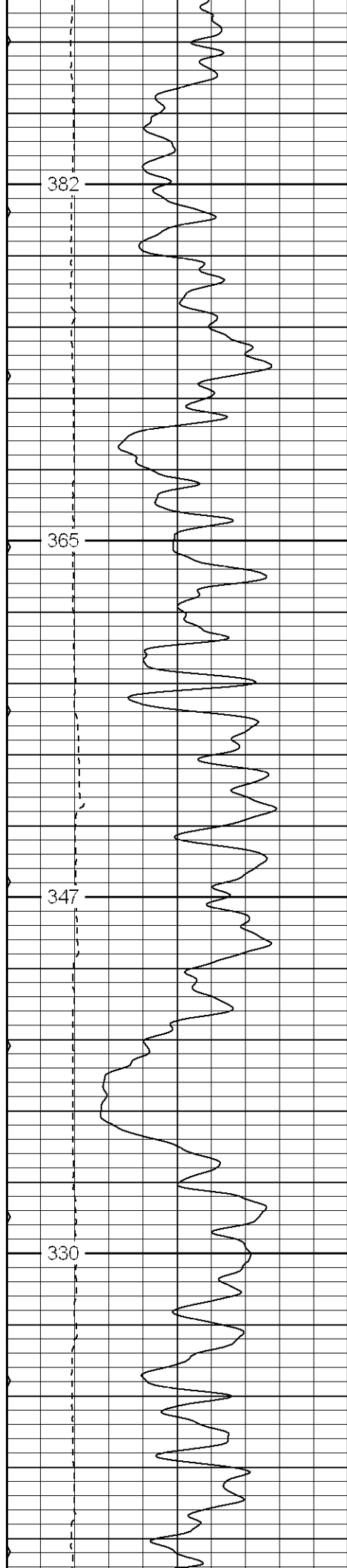
Database File: xtoge3016.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Sat Feb 24 01:37:50 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

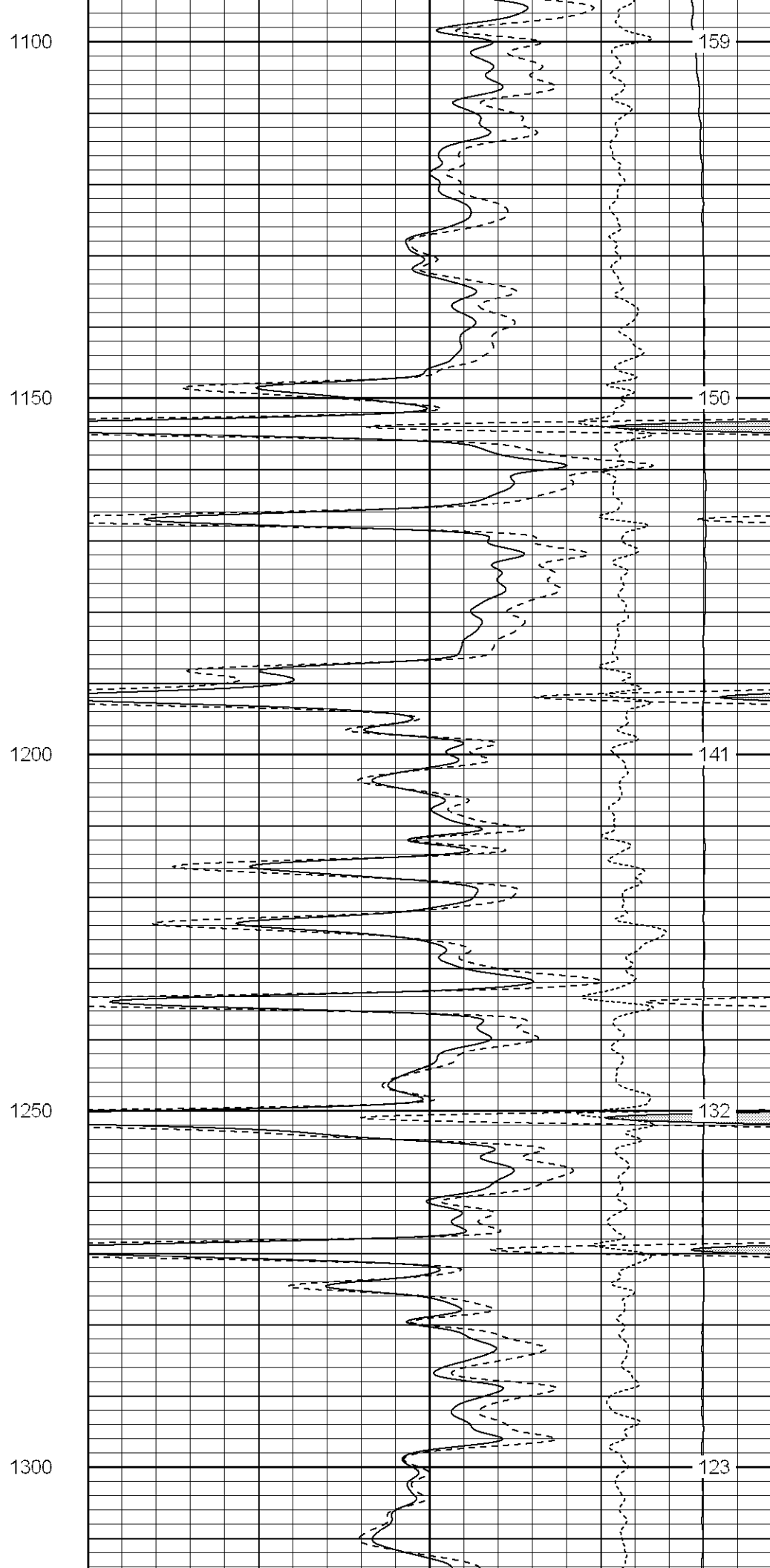
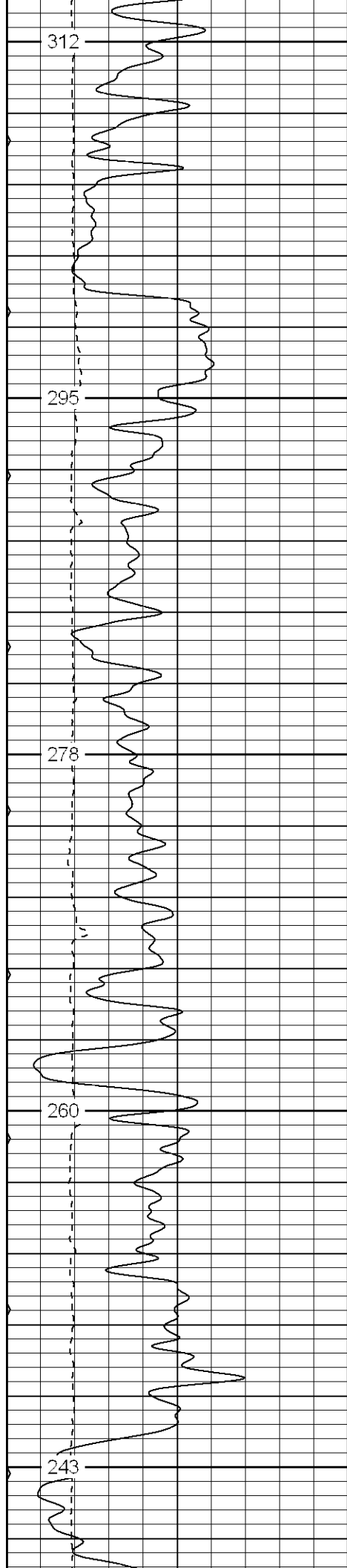
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6	DCAL (in)	16
0	MINMK	80

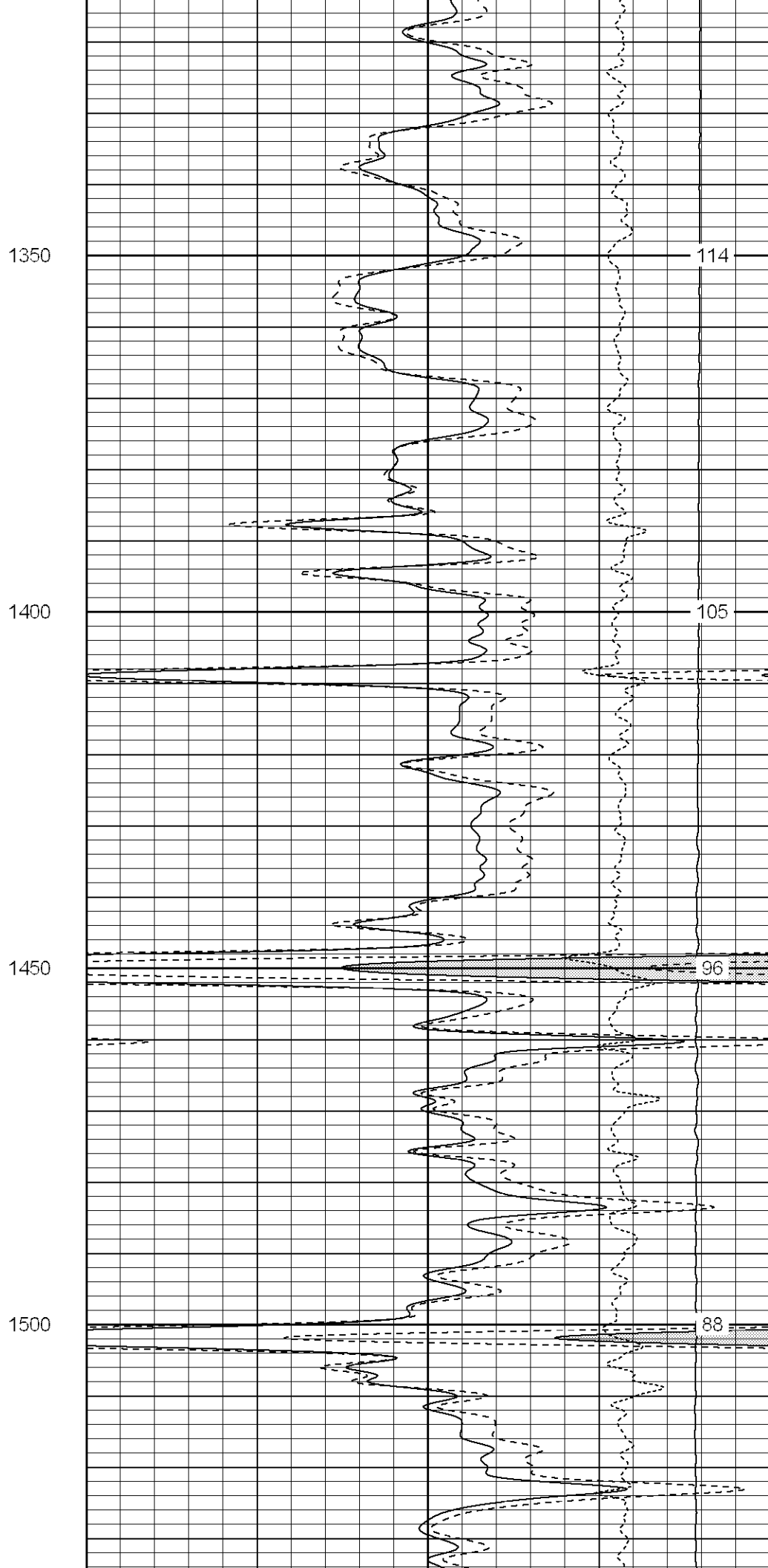
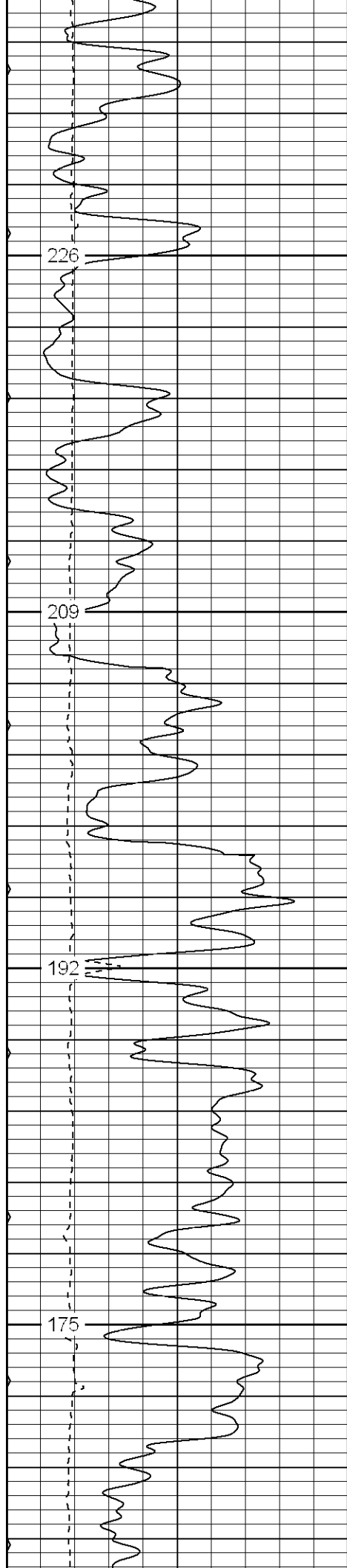
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

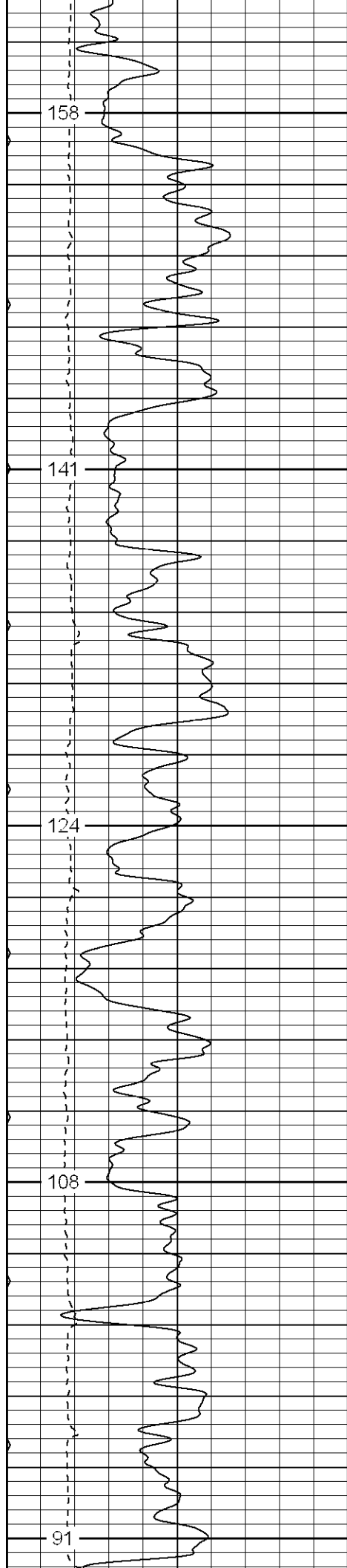












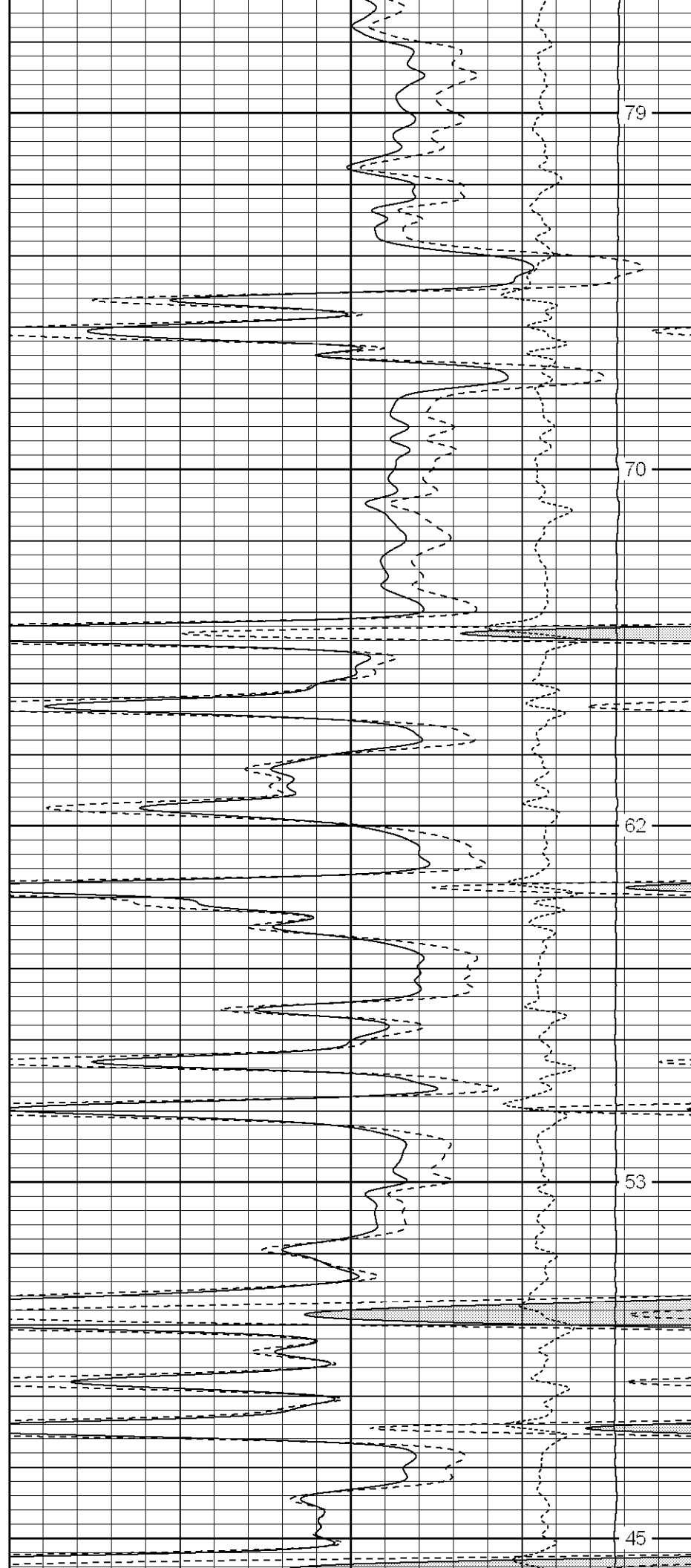
1550

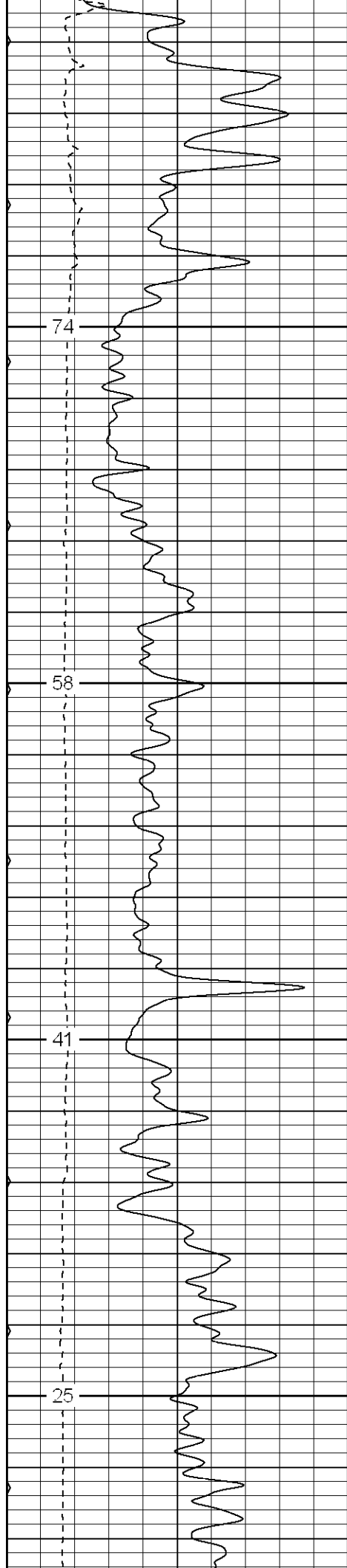
1600

1650

1700

1750



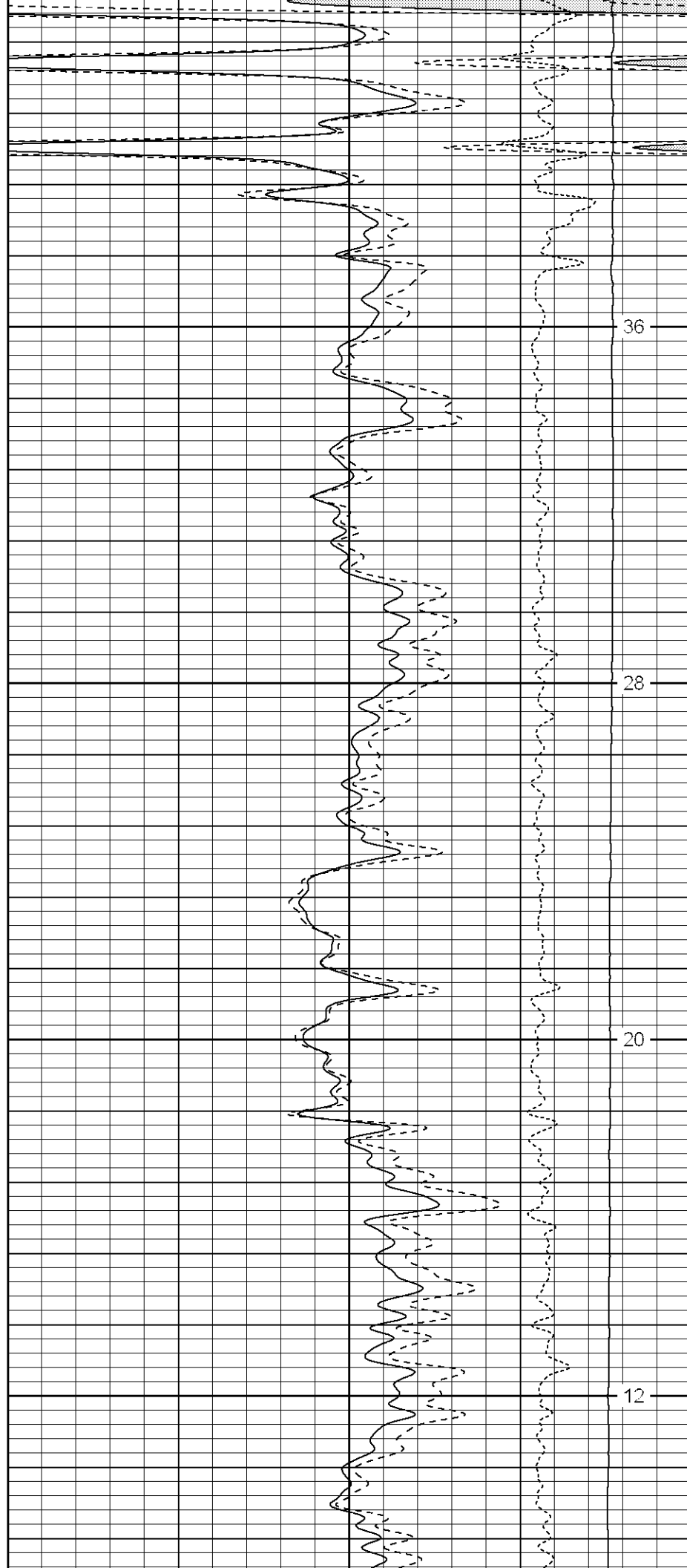


1800

1850

1900

1950

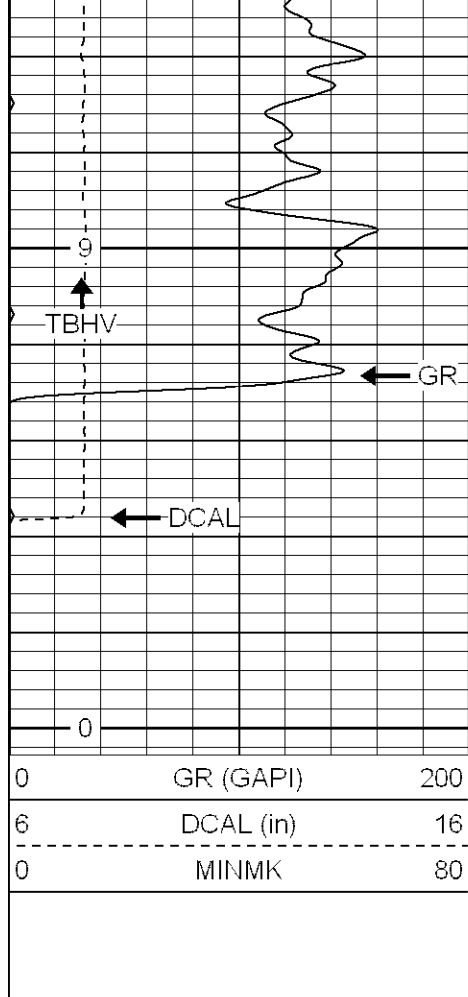


36

28

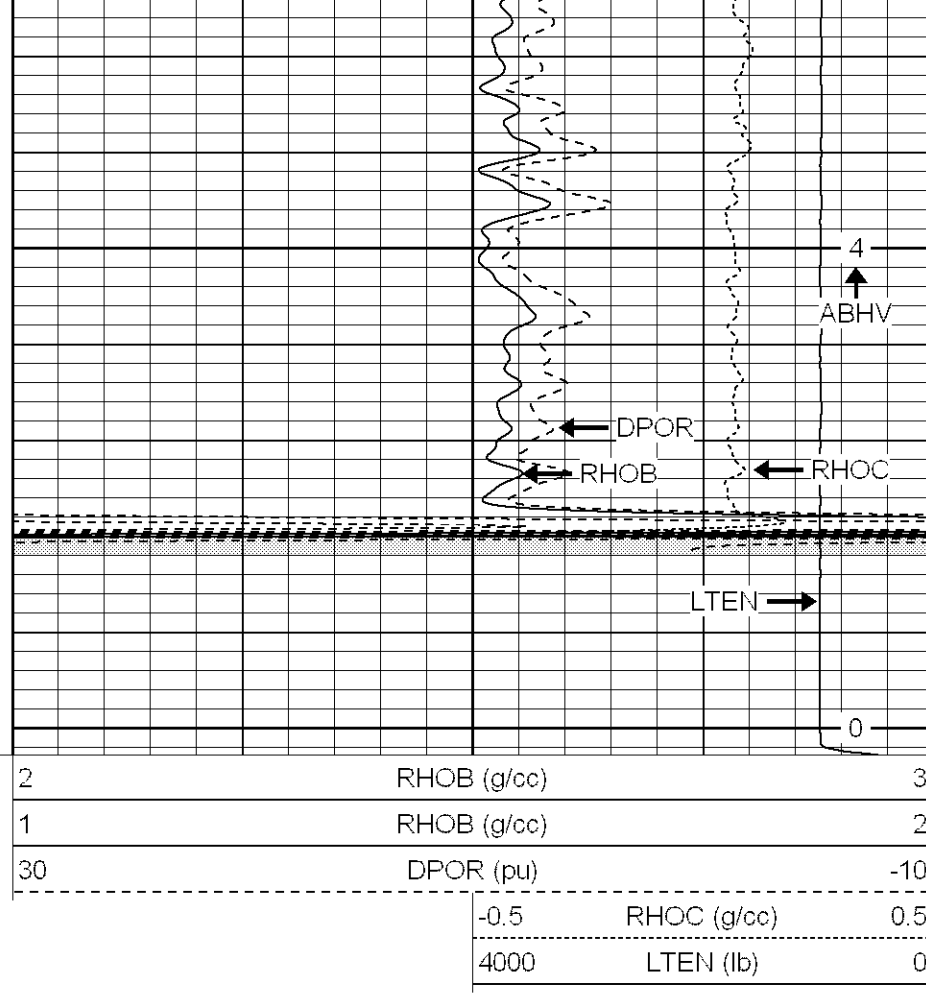
20

12



2000

2050



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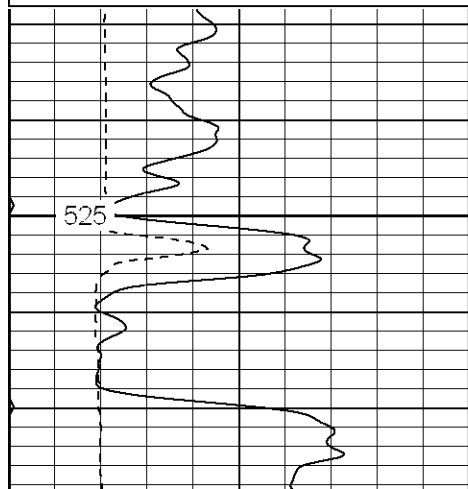
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Main Pass

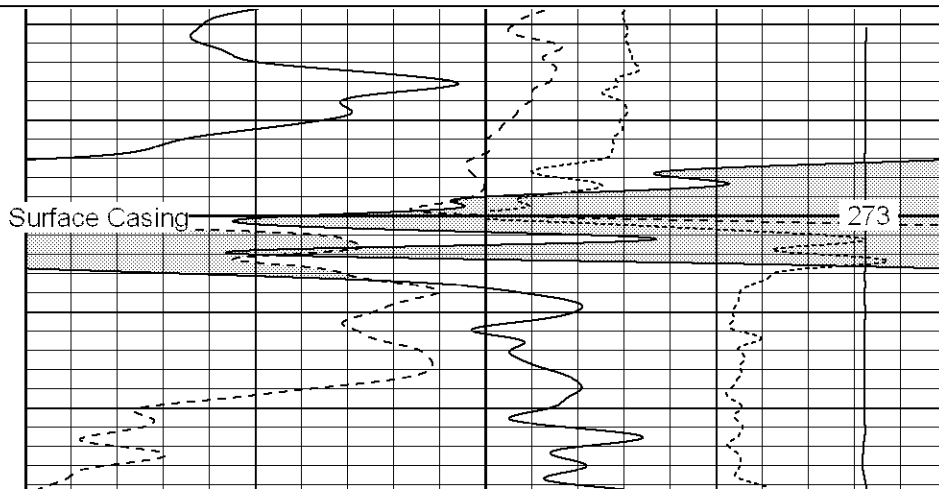
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Dataset Creation: Sat Feb 24 01:37:50 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

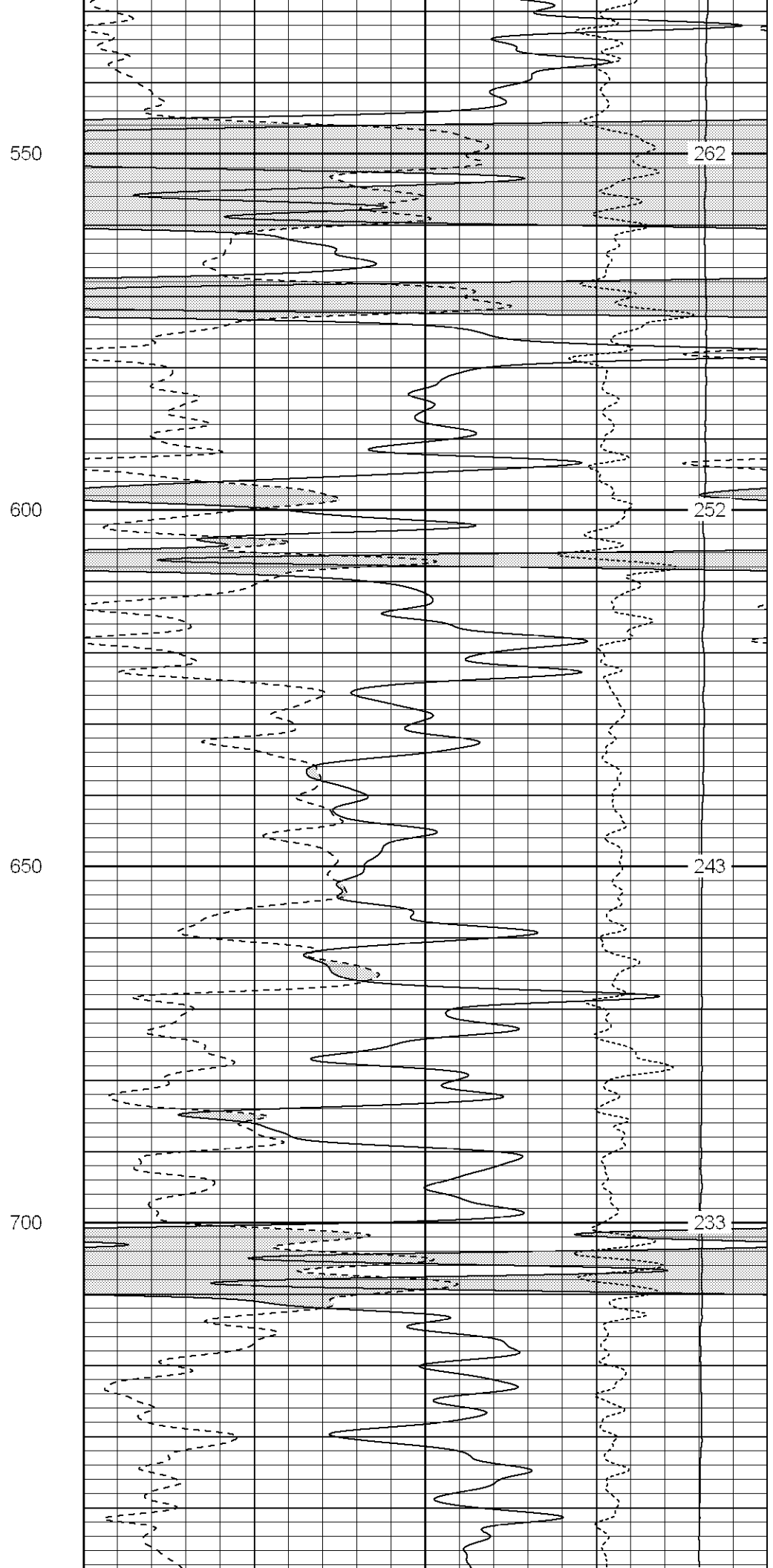
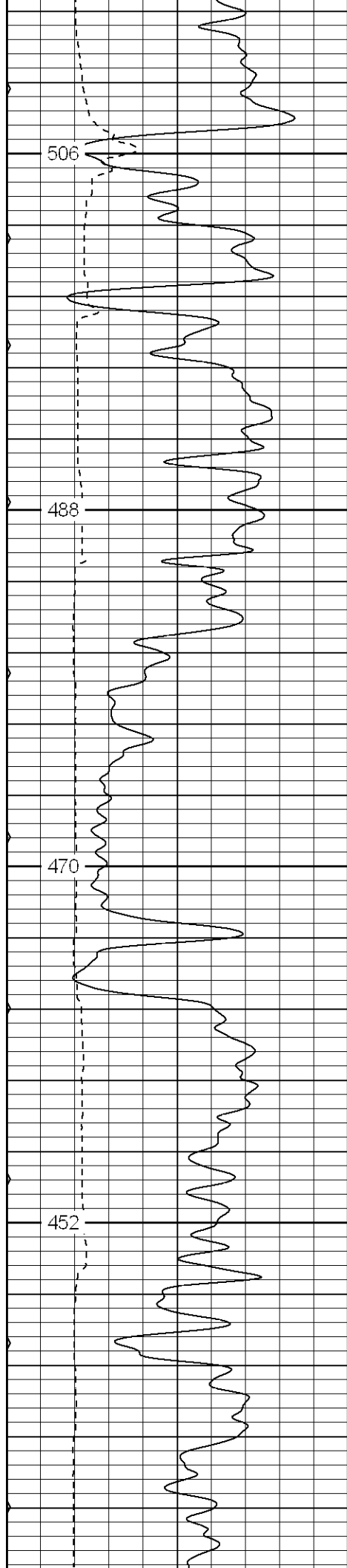
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6	DCAL (in)	16
0	MINMK	80

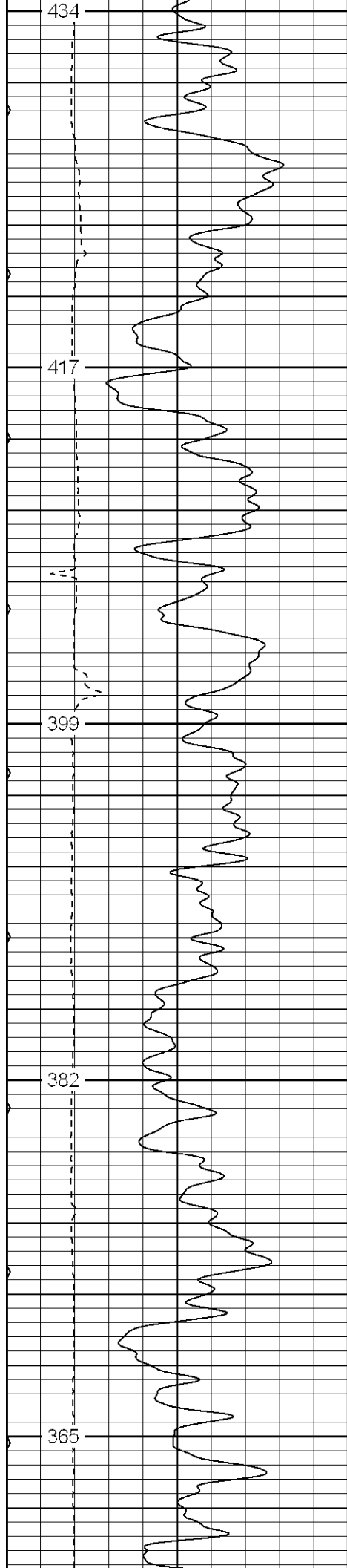
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0



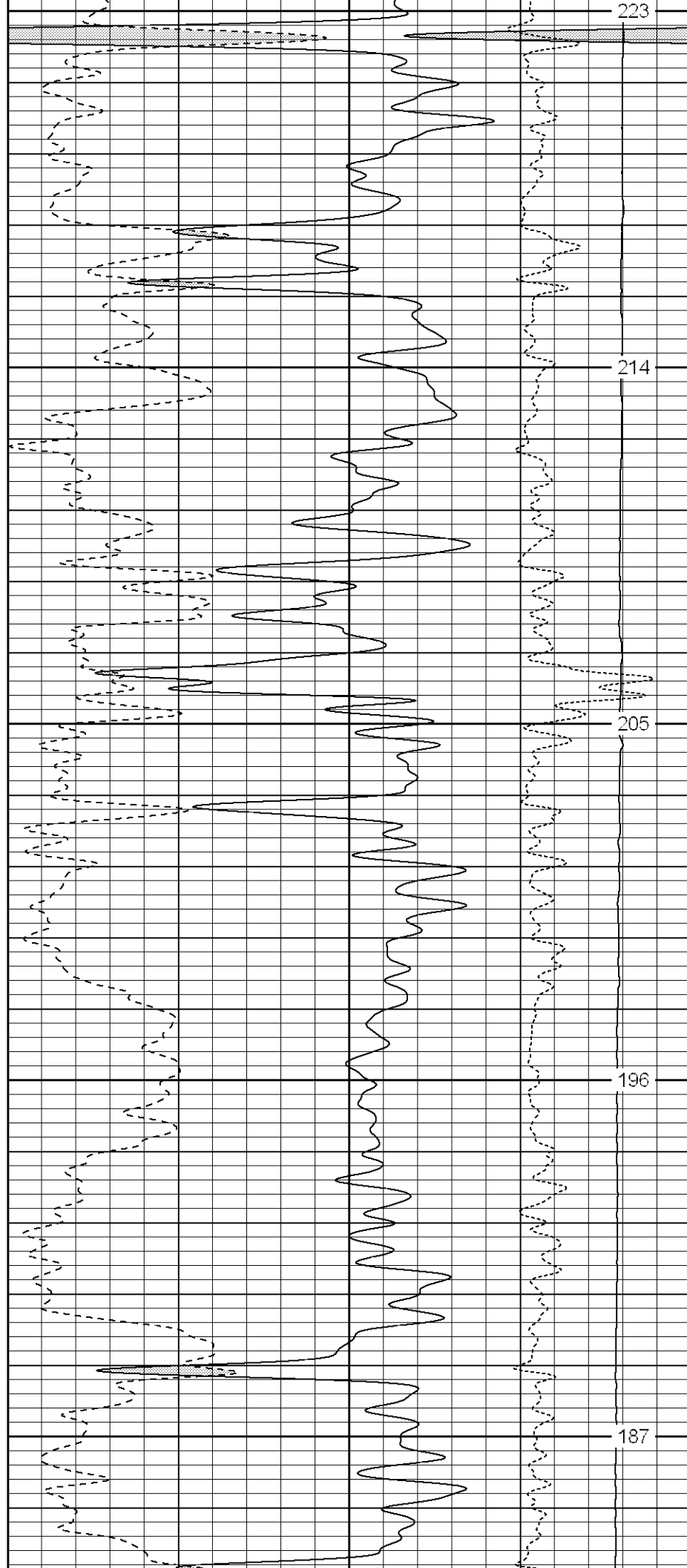
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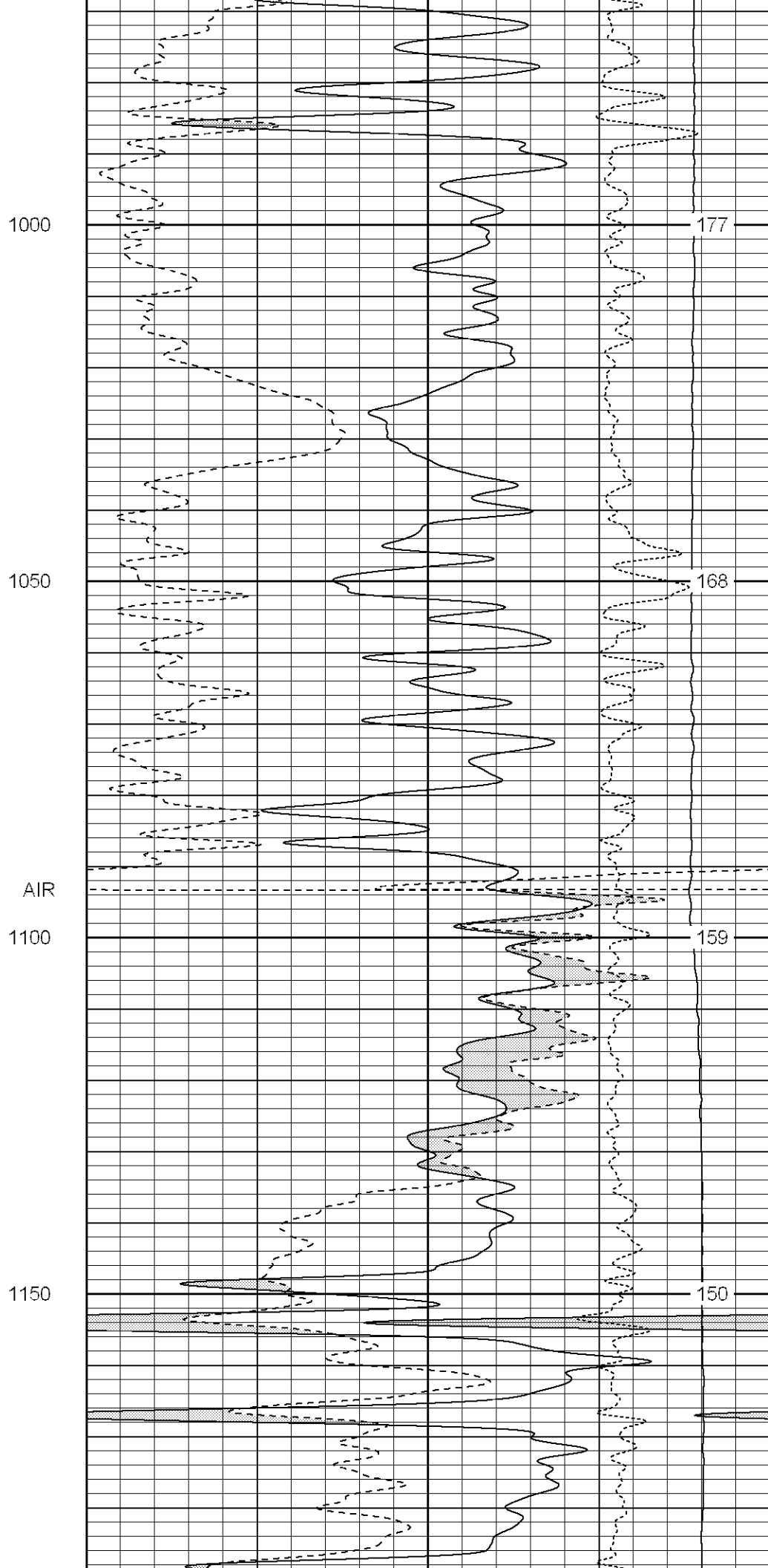
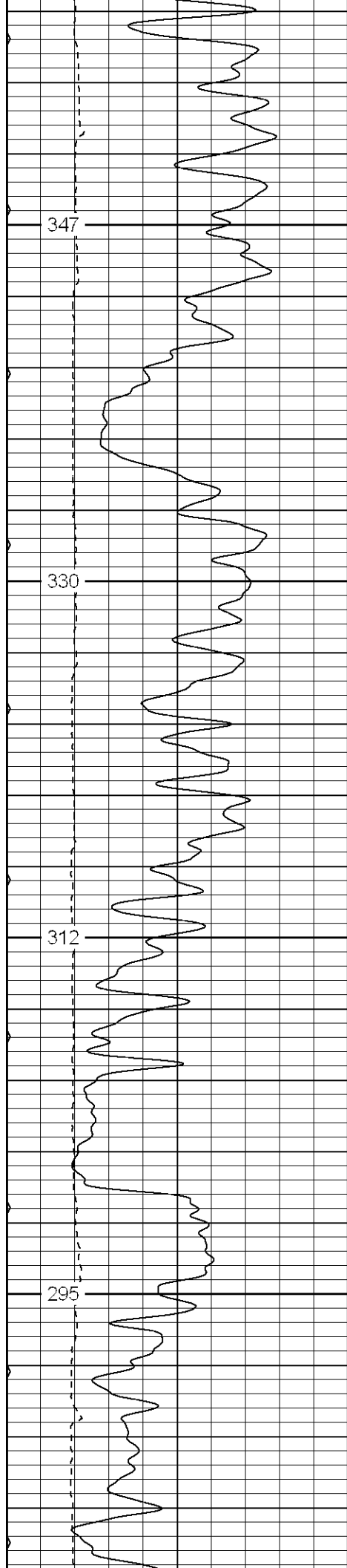


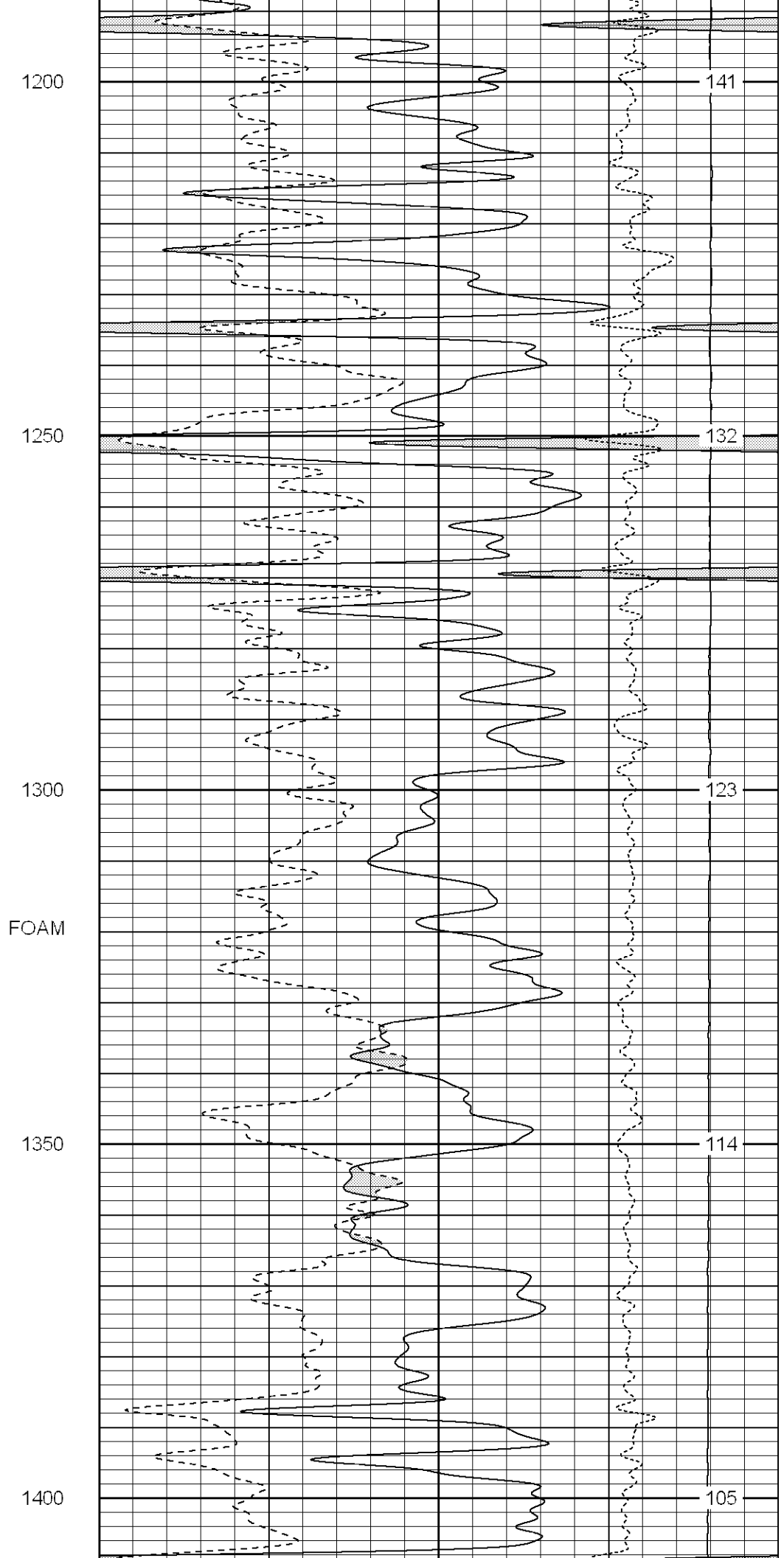
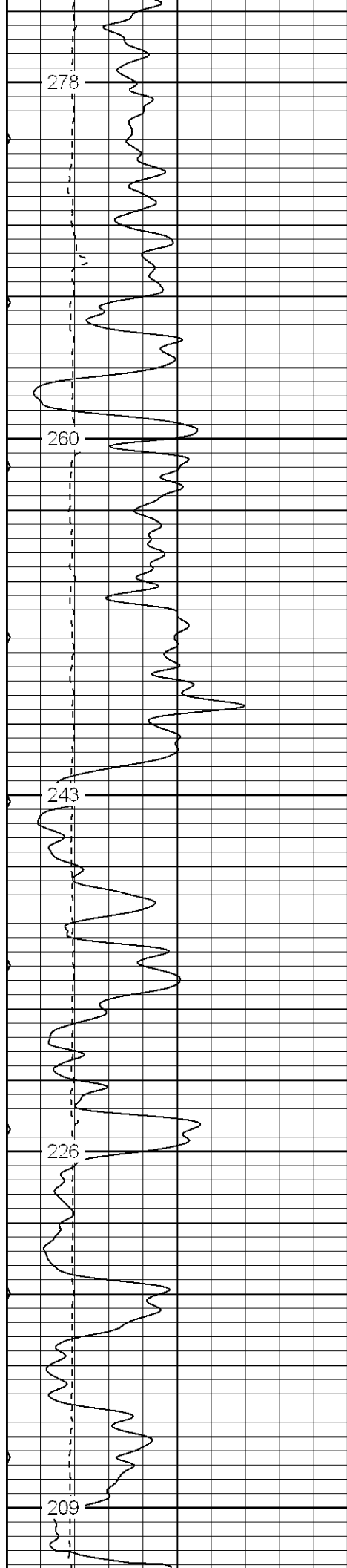


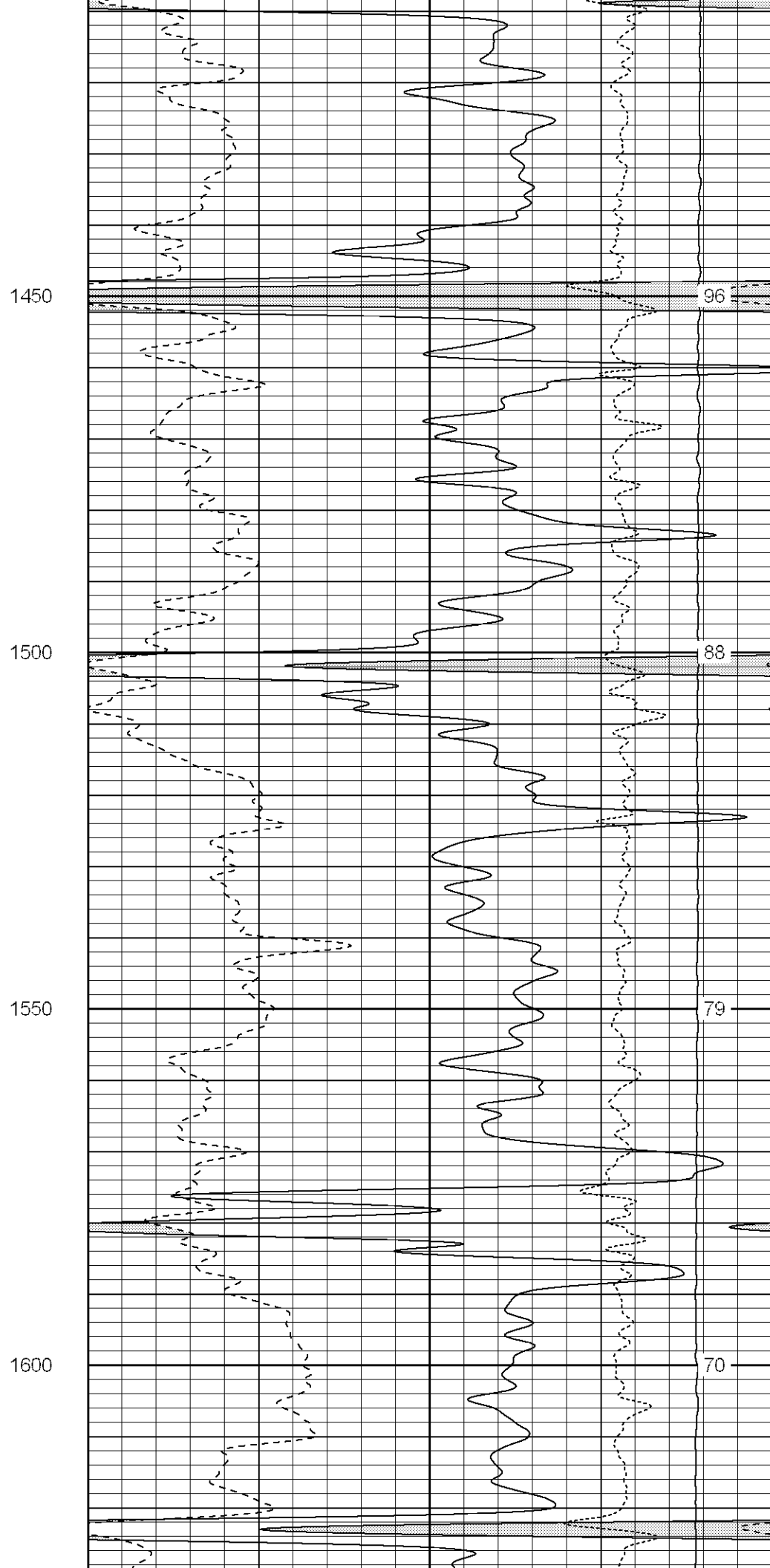
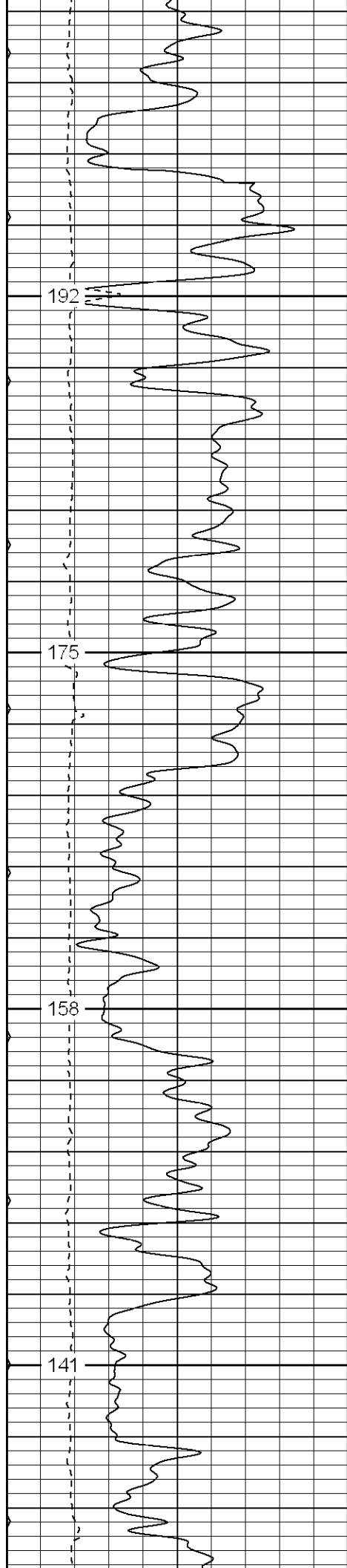


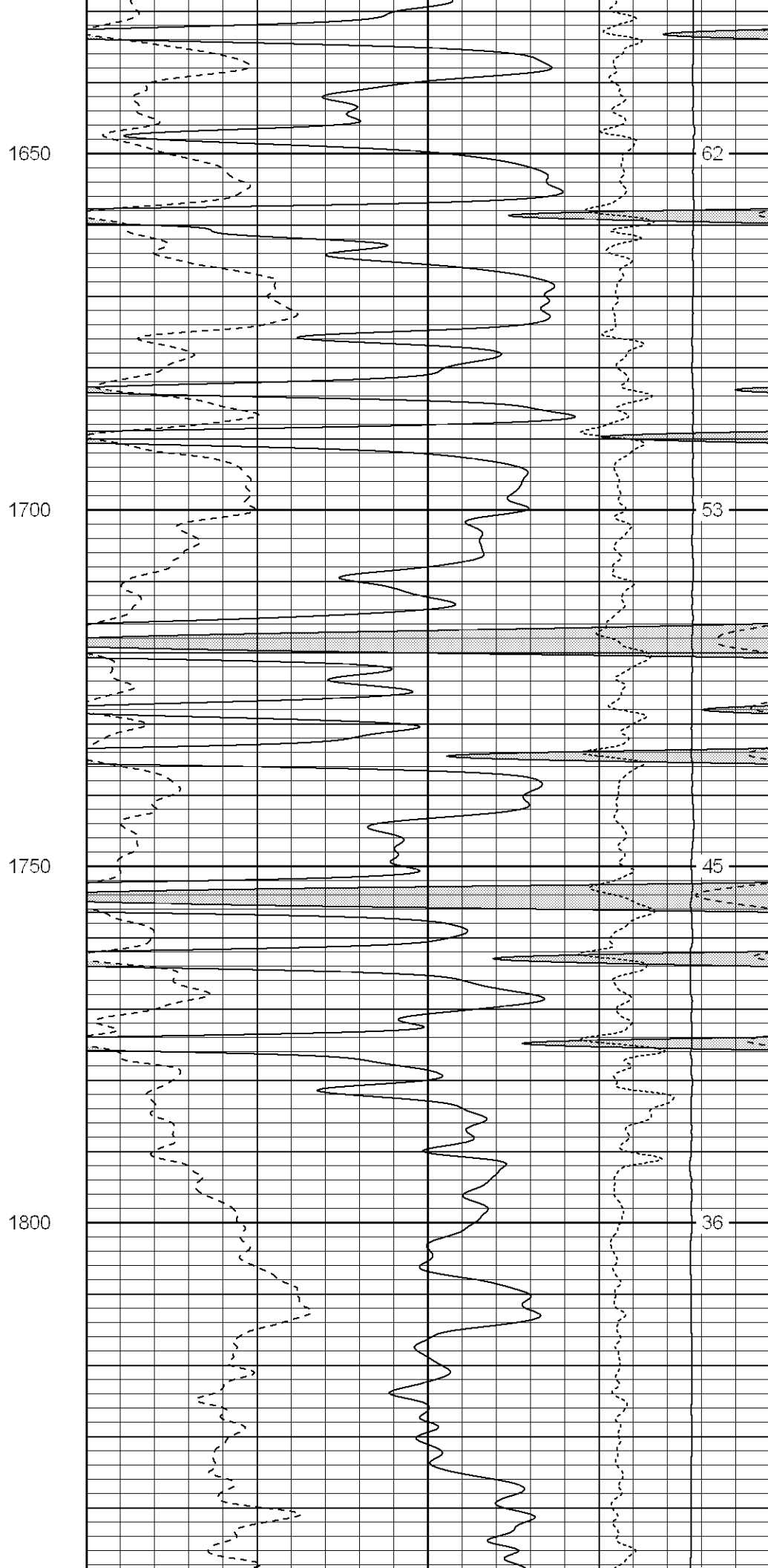
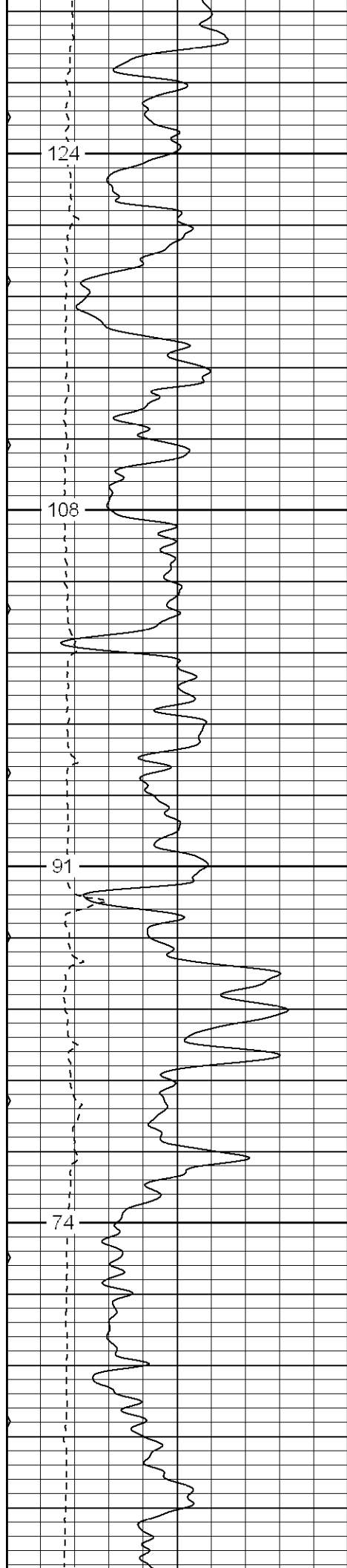
750
800
850
900
950

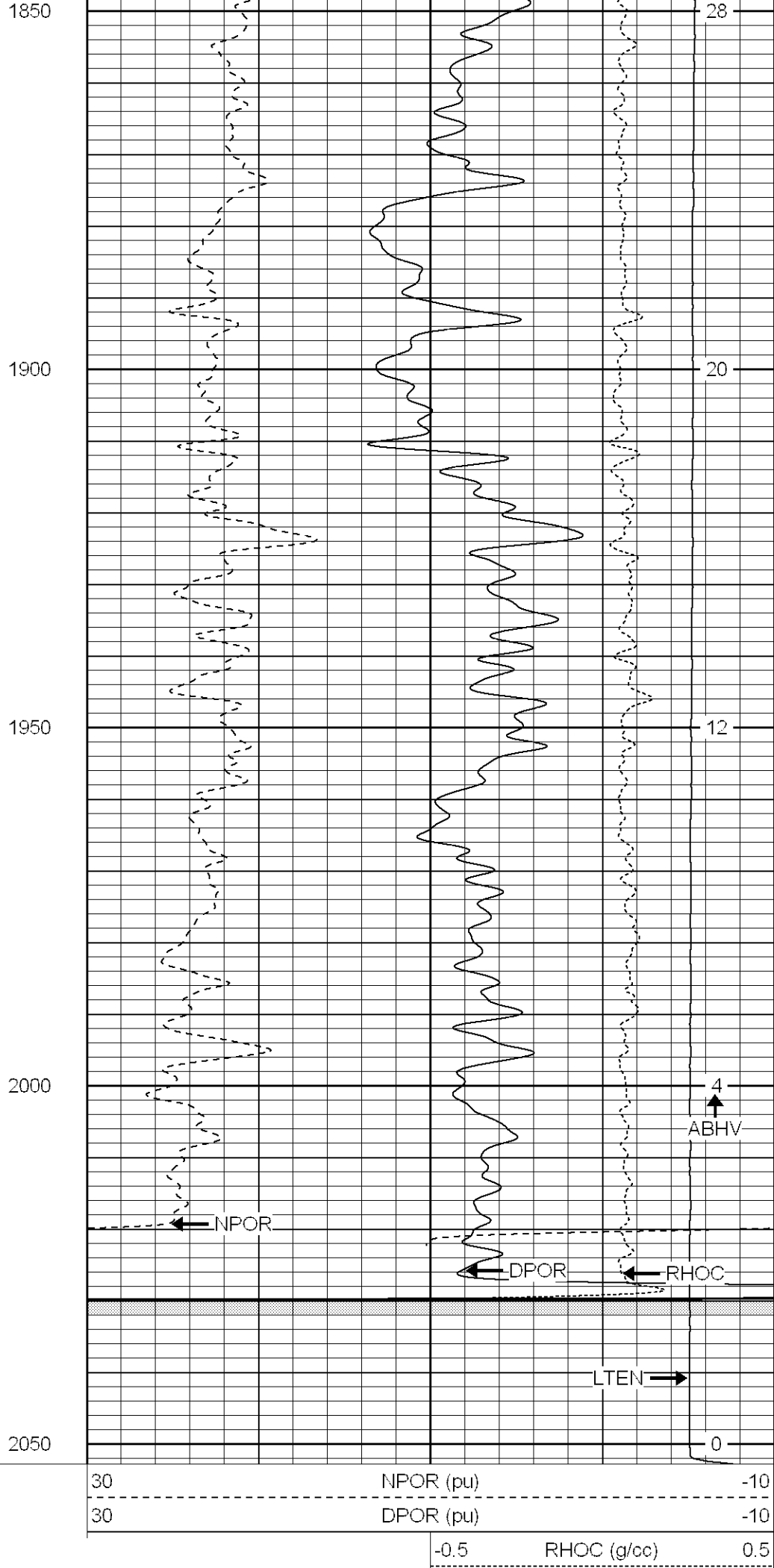
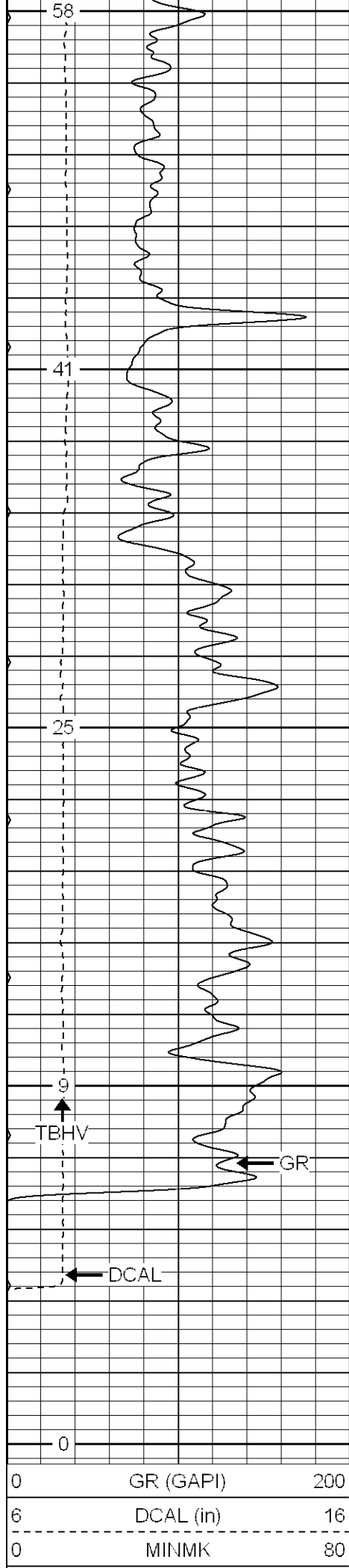














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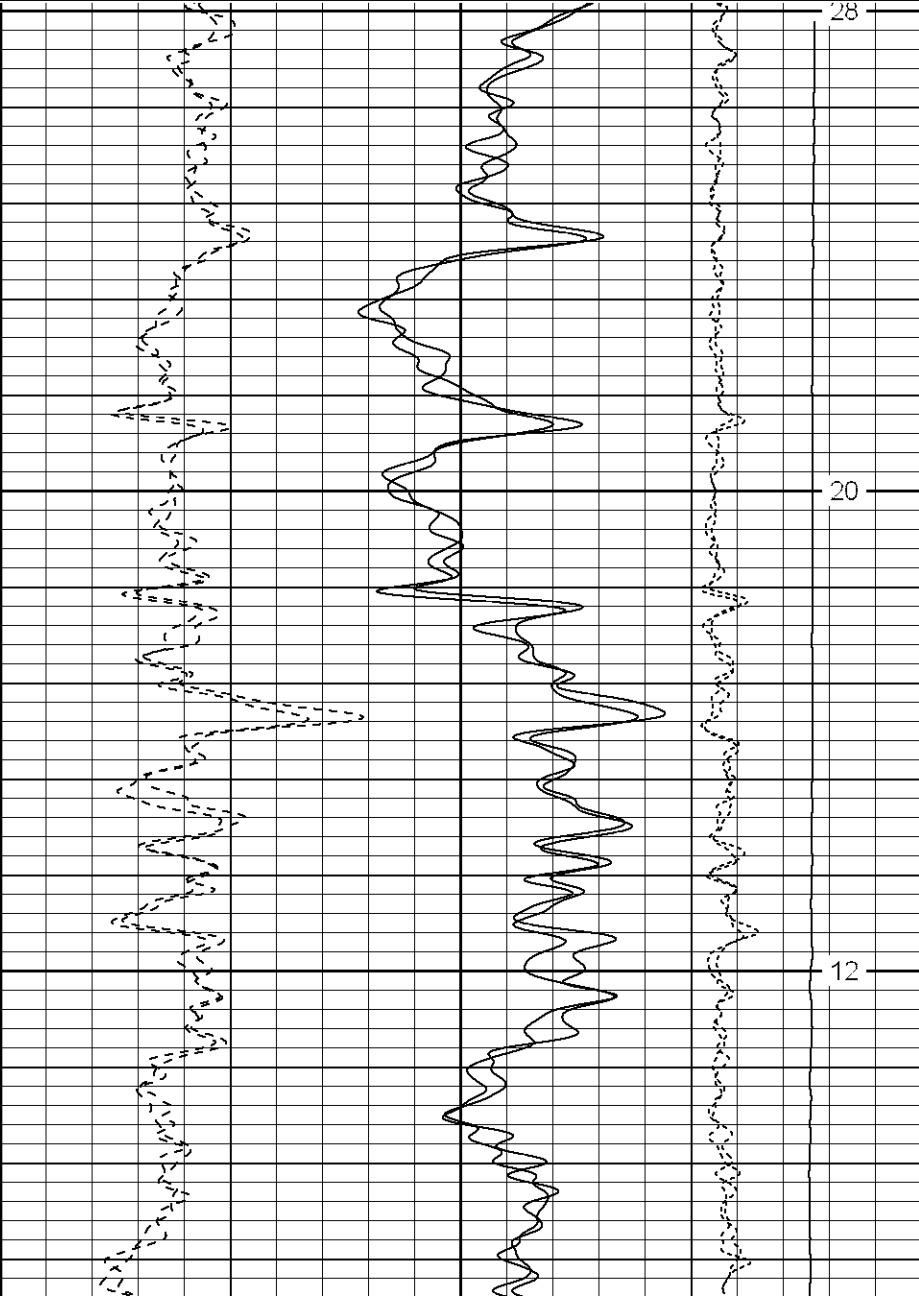
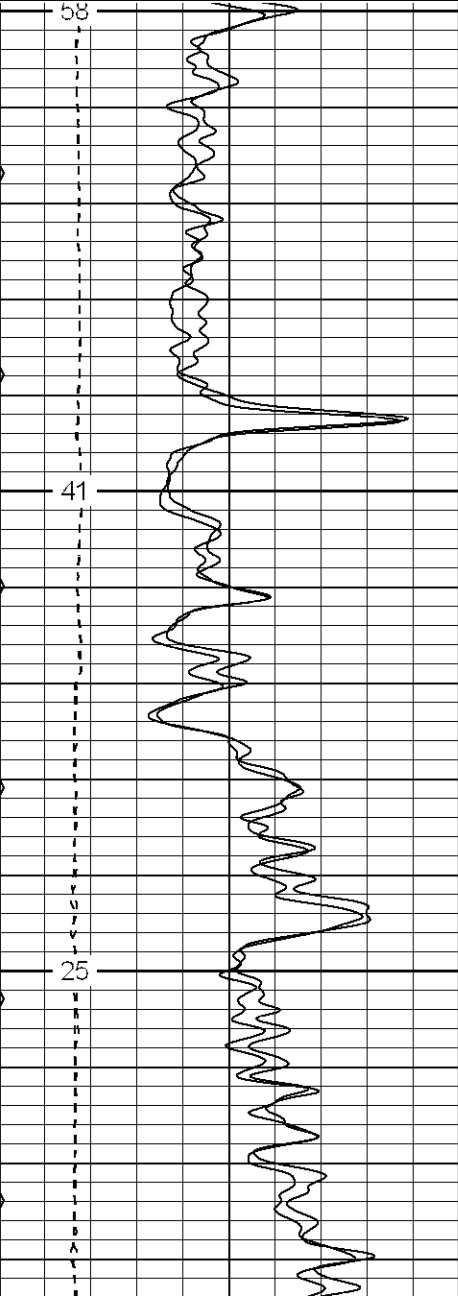
Black Lick, Pa.
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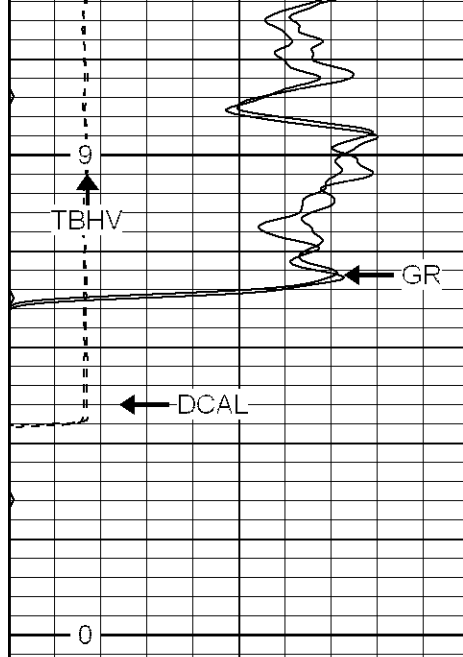
Repeat Pass

Database File: xtoge3016.db
Dataset Pathname: pass1.1
Presentation Format: cdnl
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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

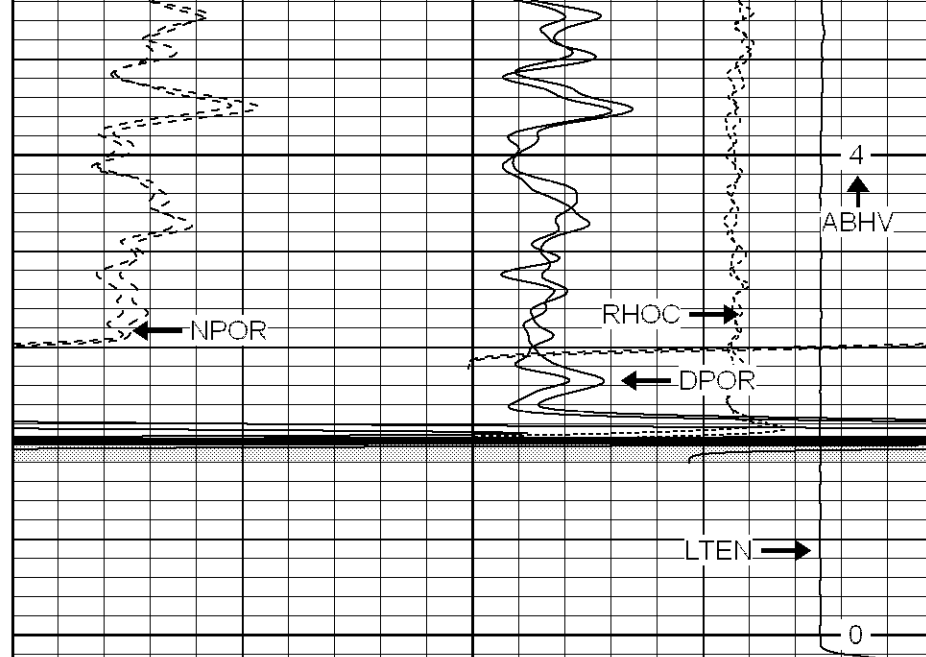




0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16

2000

2050



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



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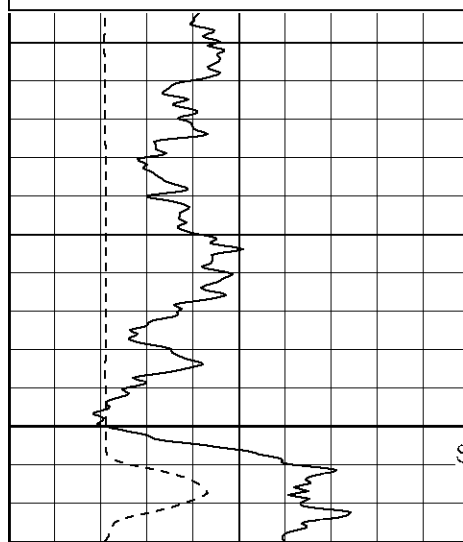
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High Resolution Pass

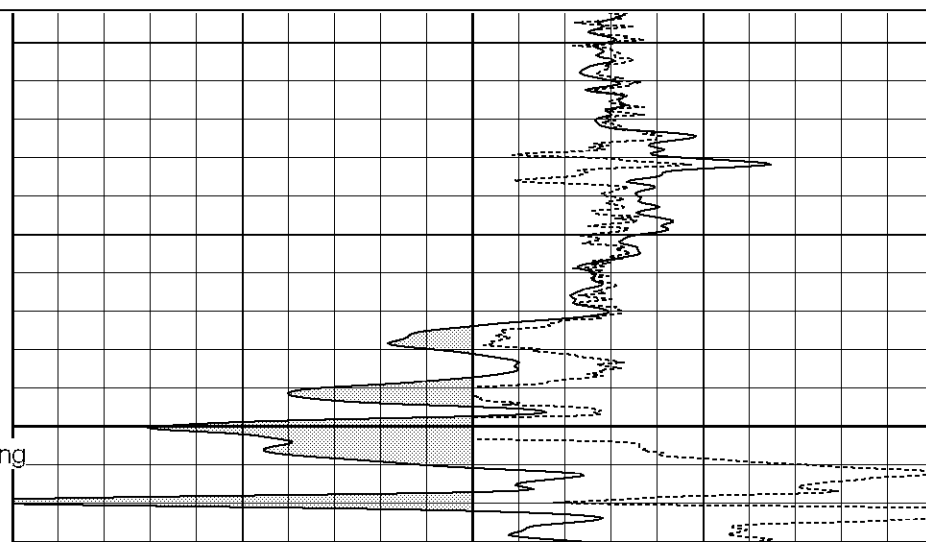
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Presentation Format: cdlhr
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Charted by: Depth in Feet scaled 1:120

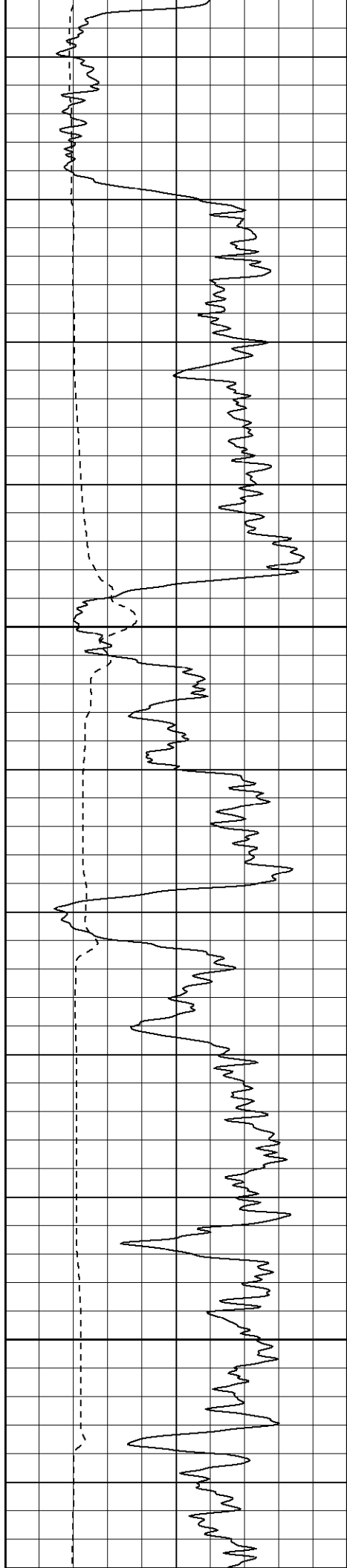
0	GR (GAPI)	200
6	DCAL (in)	16

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



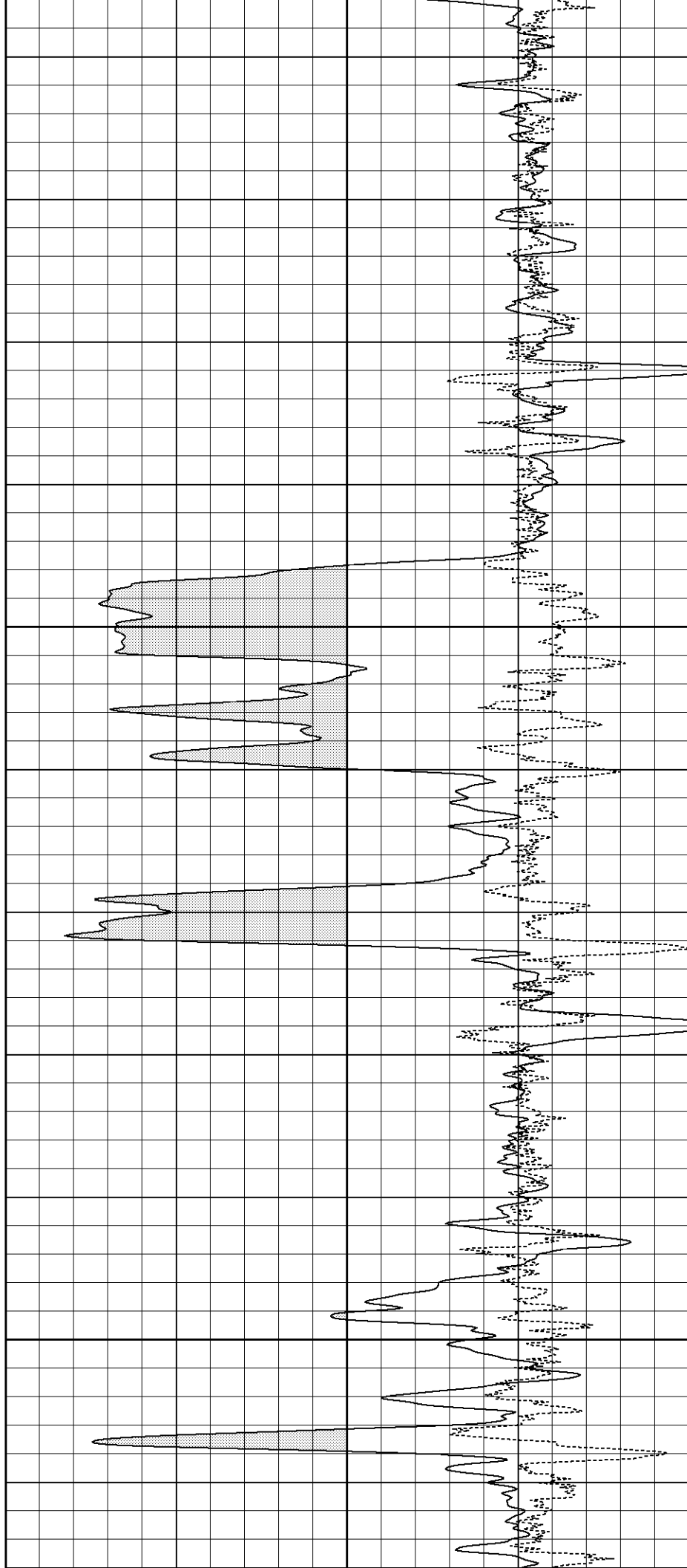
500
Surface Casing

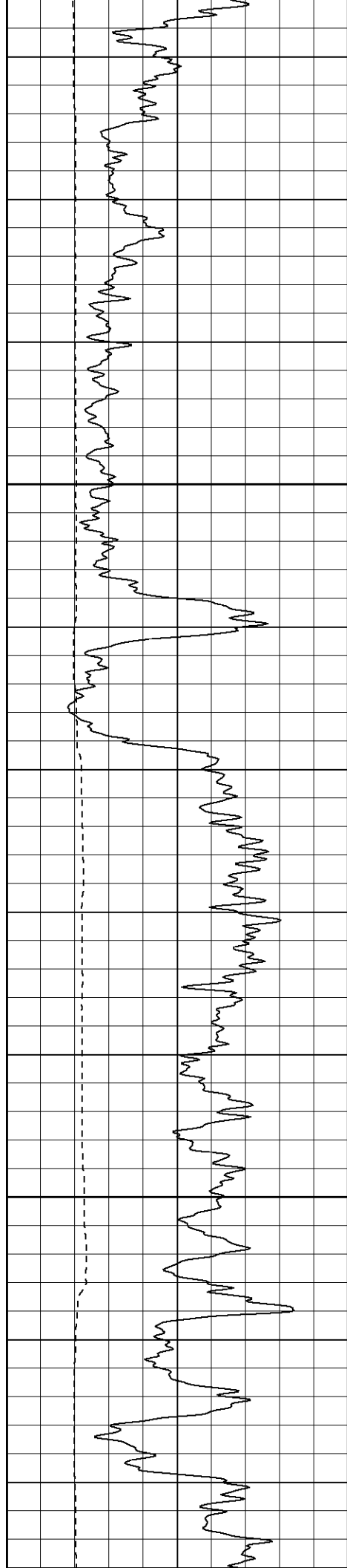




550

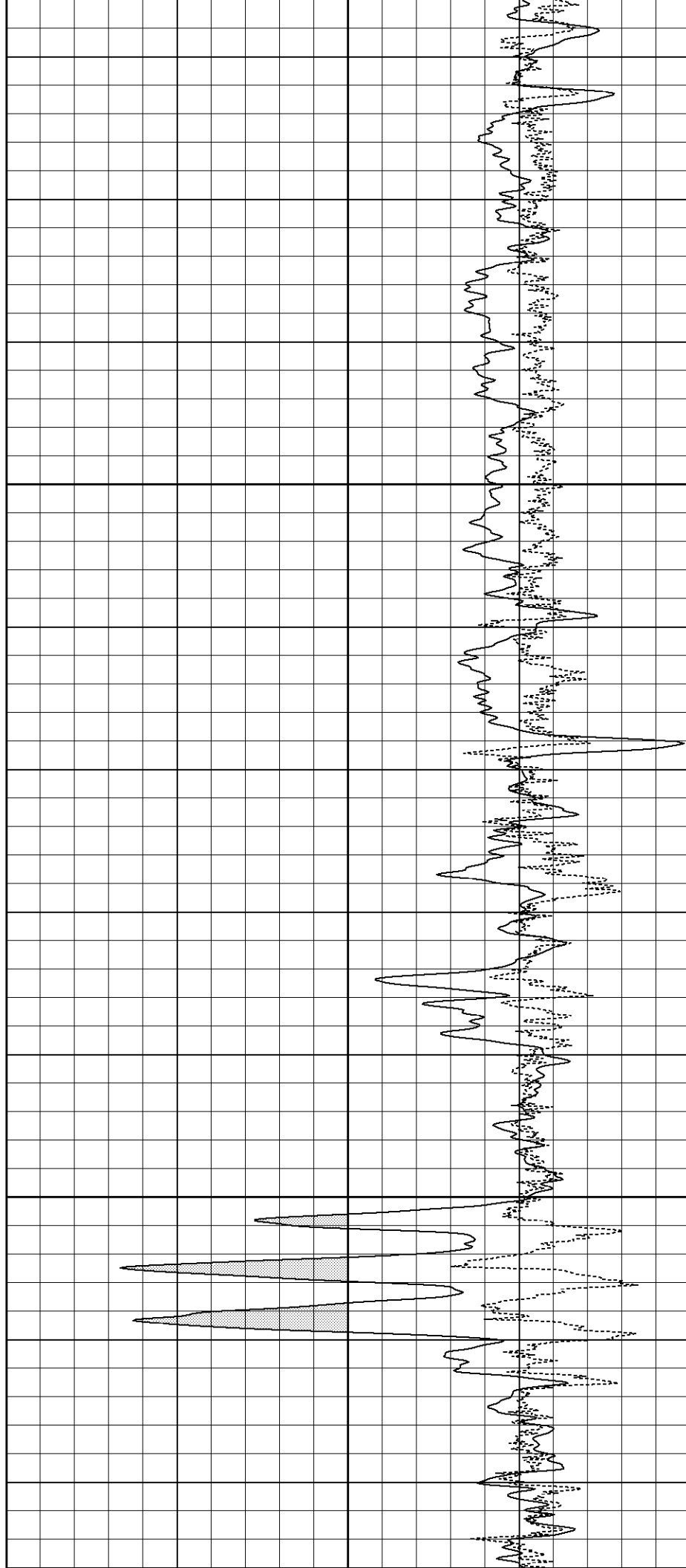
600

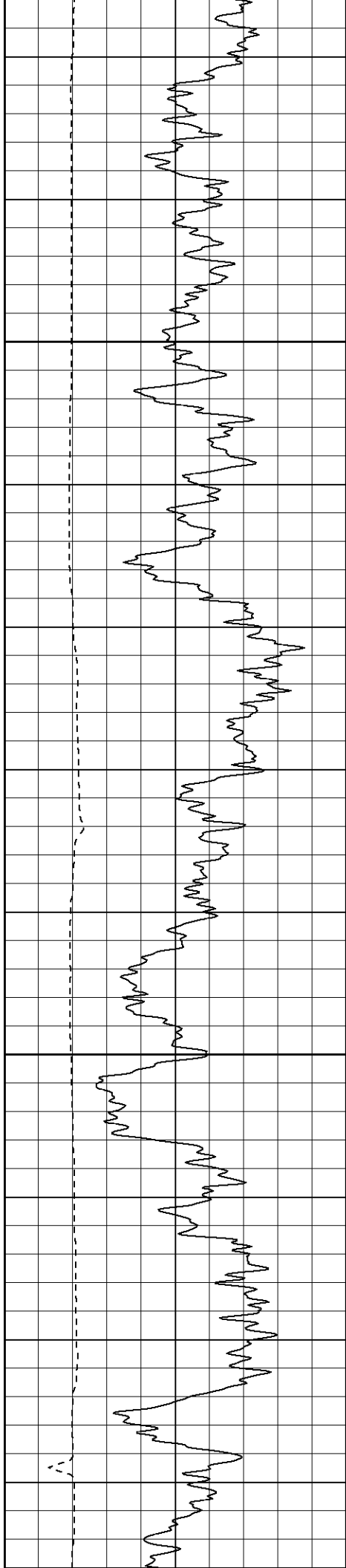




650

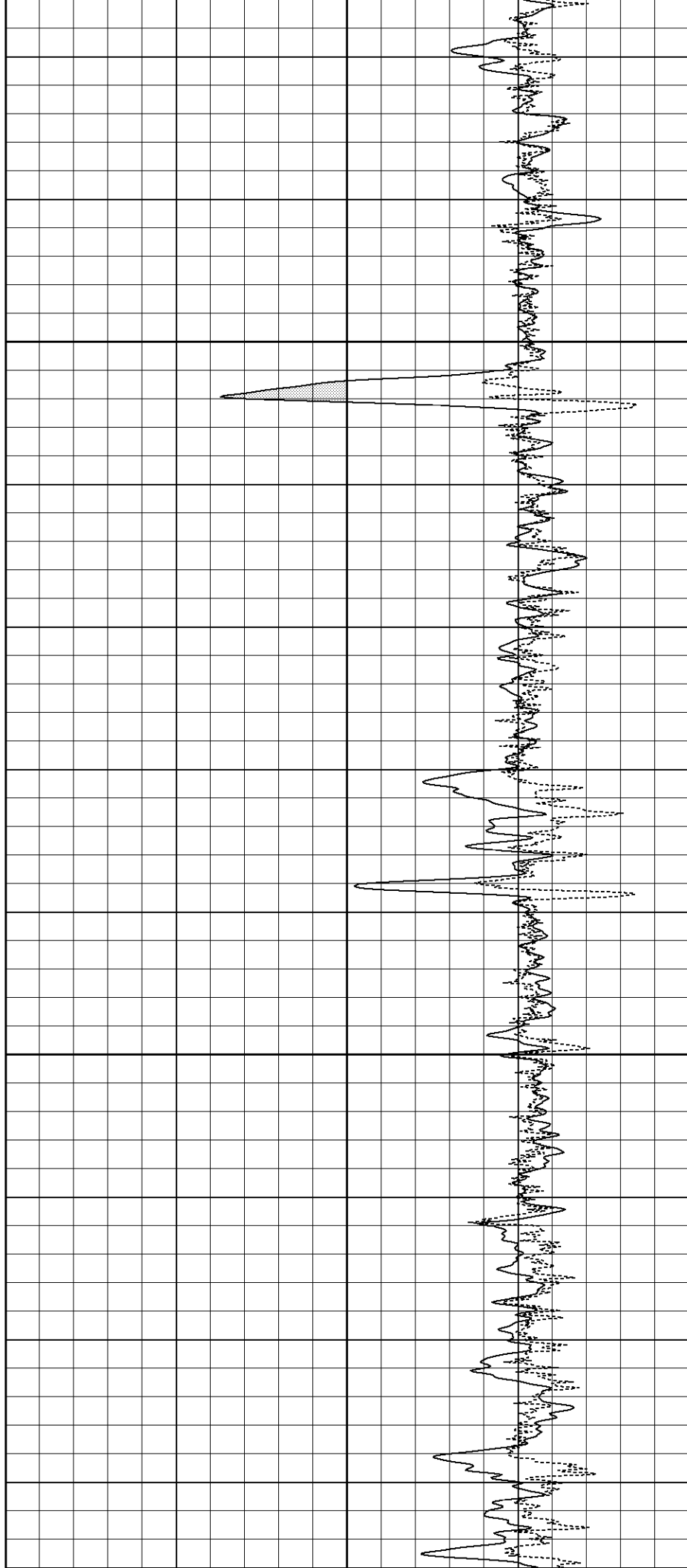
700

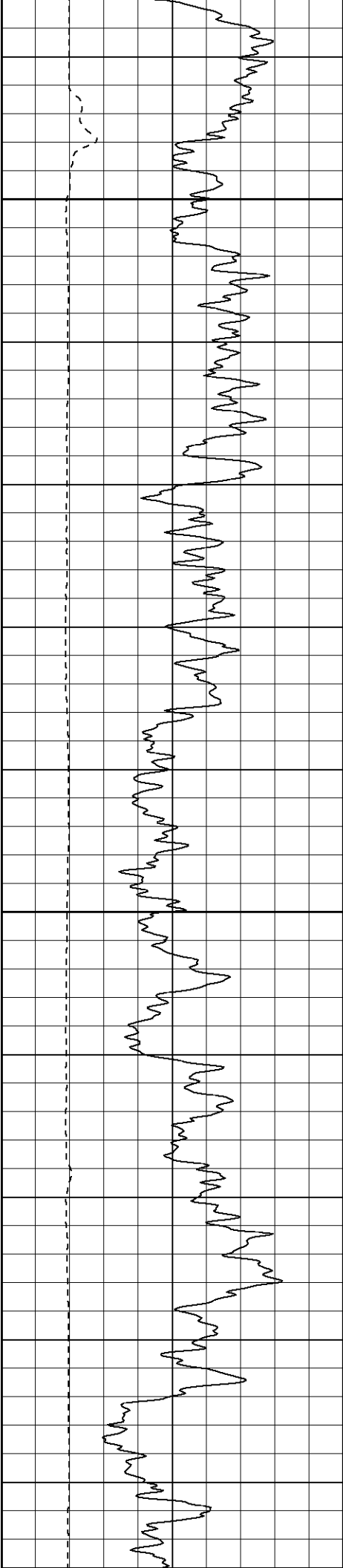




750

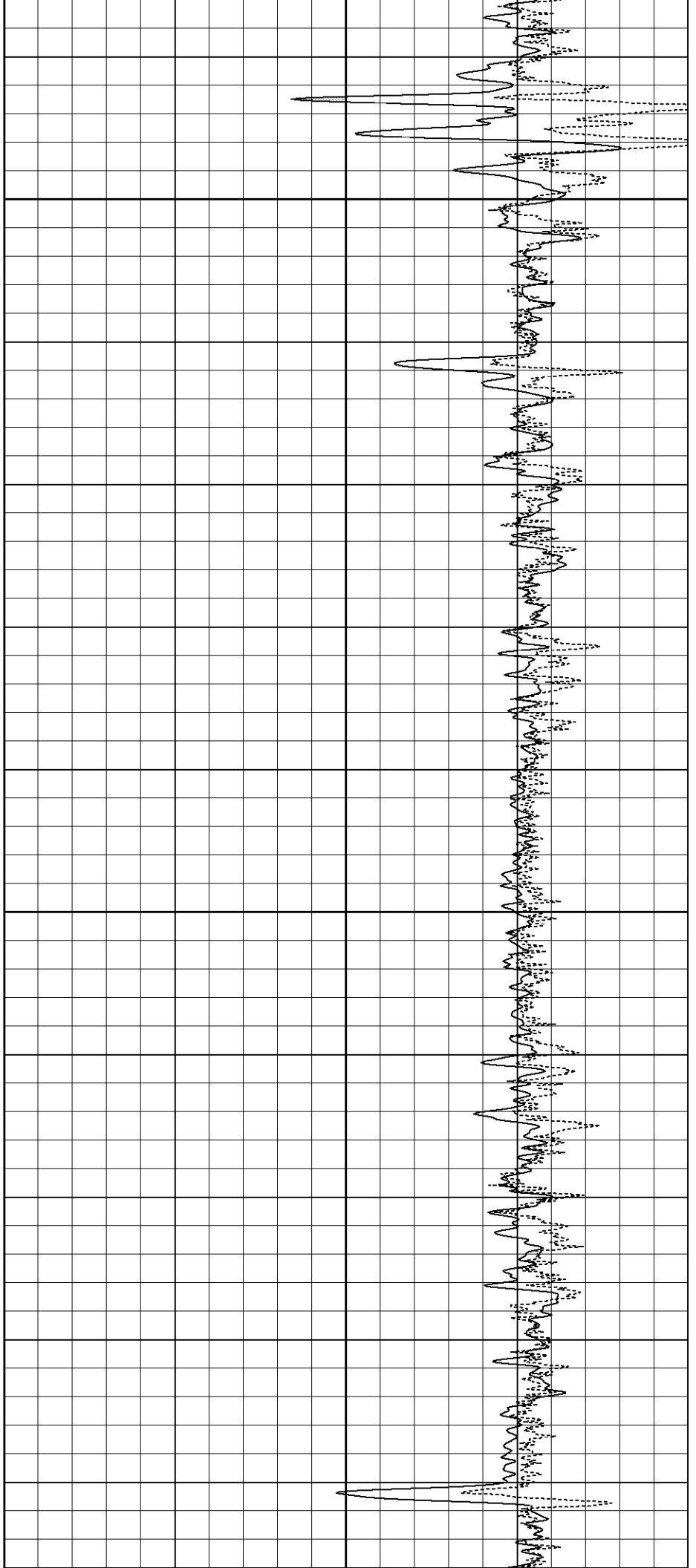
800

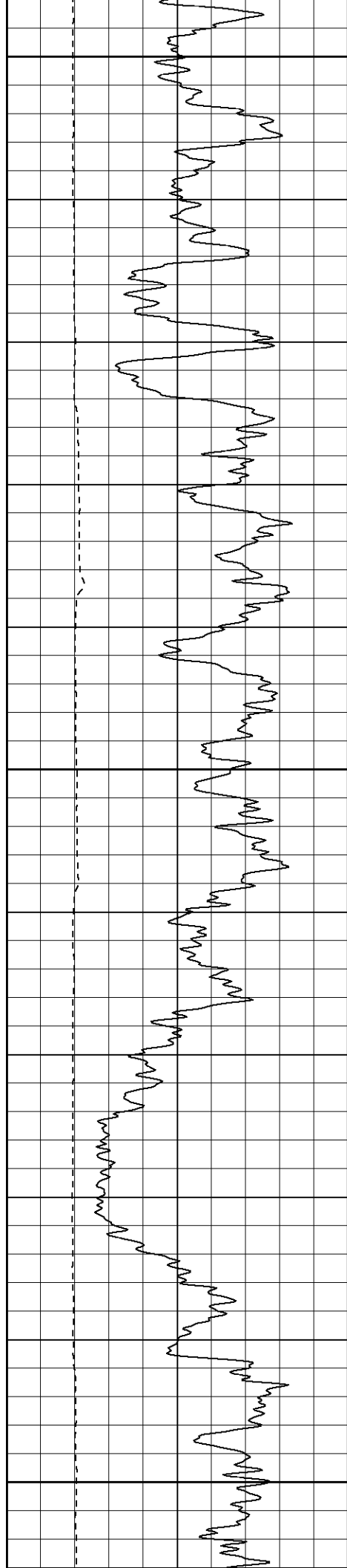




850

900

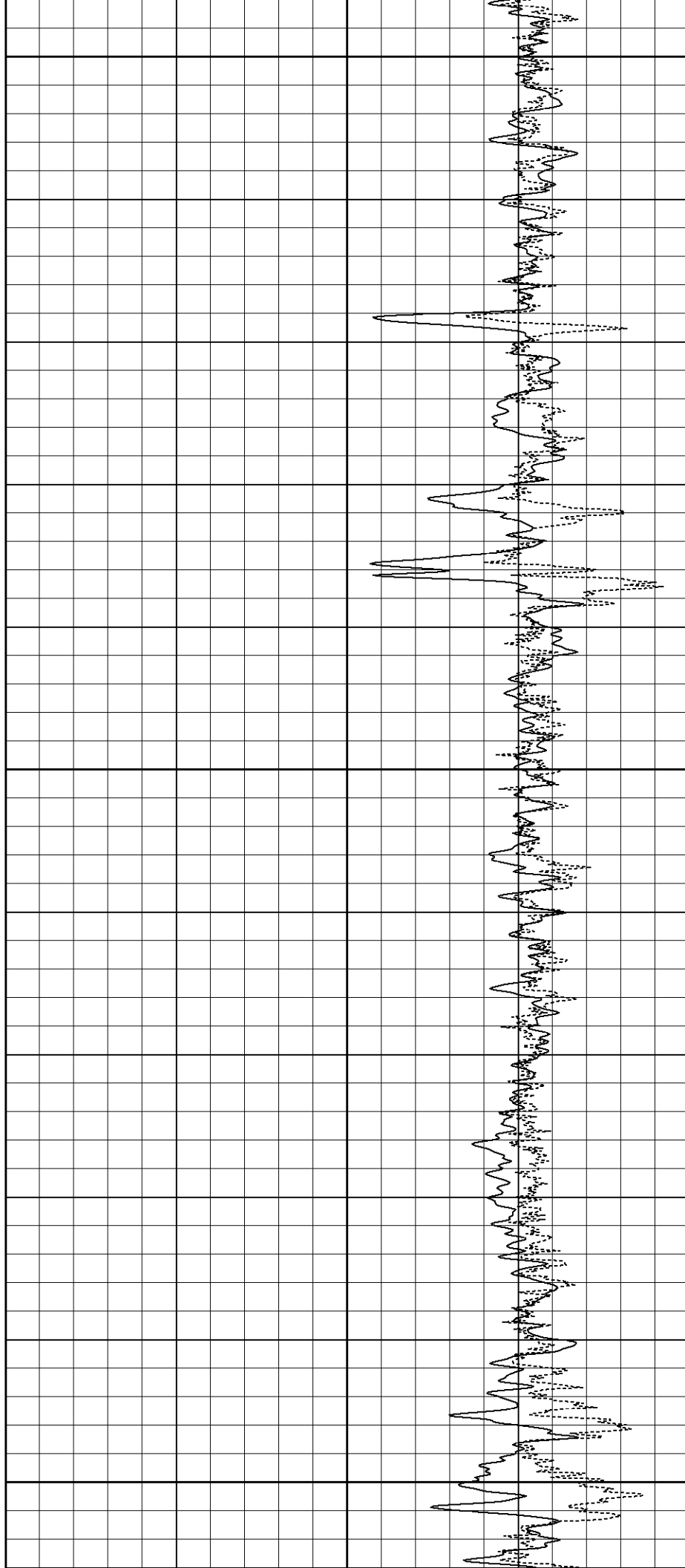


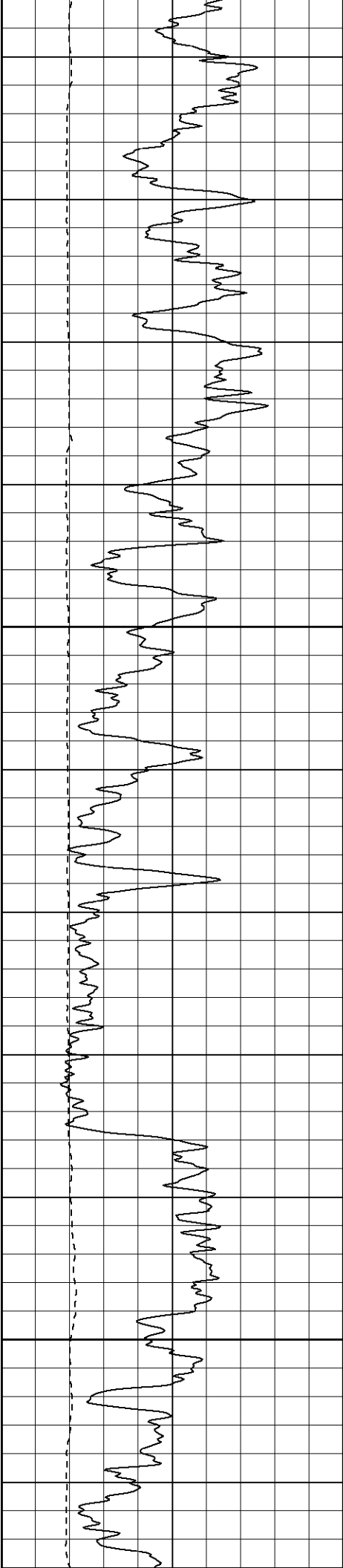


950

1000

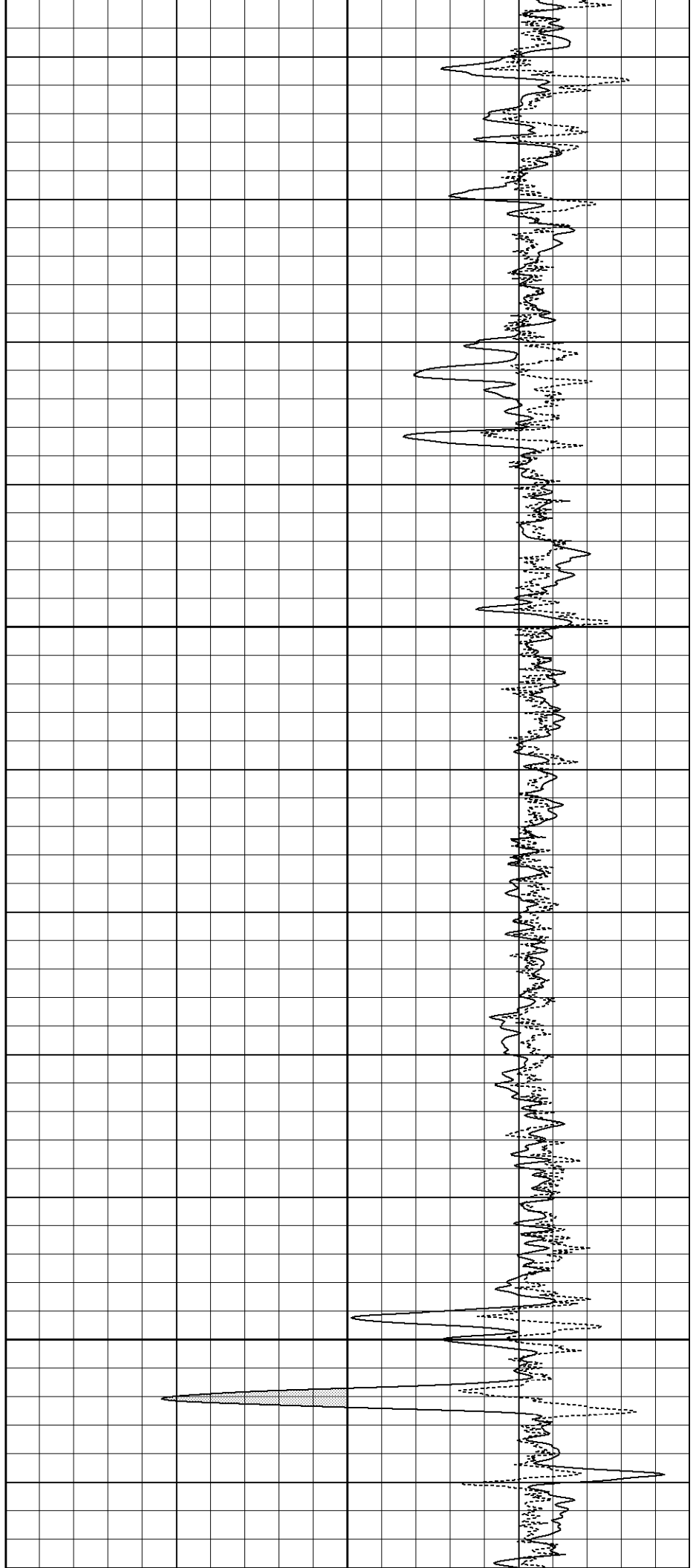
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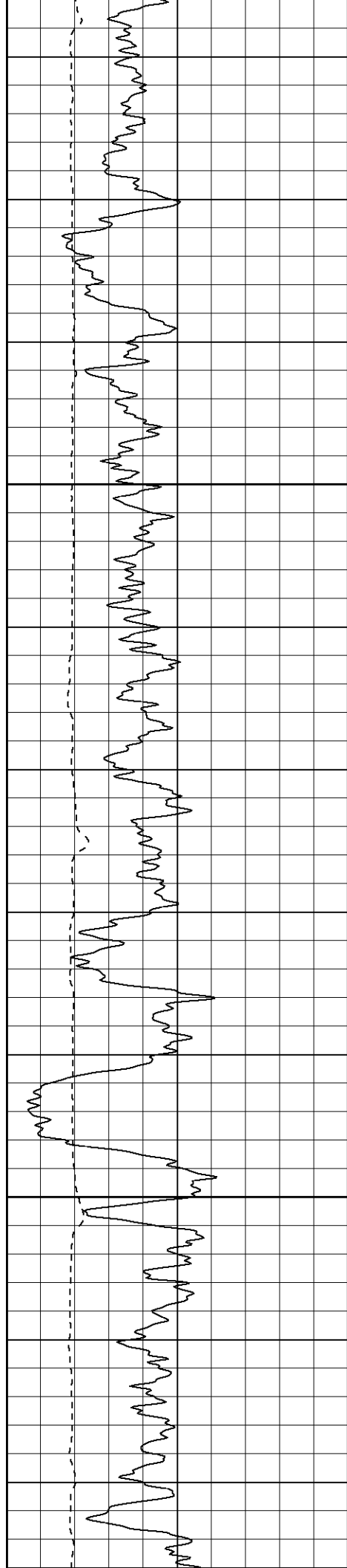




1100

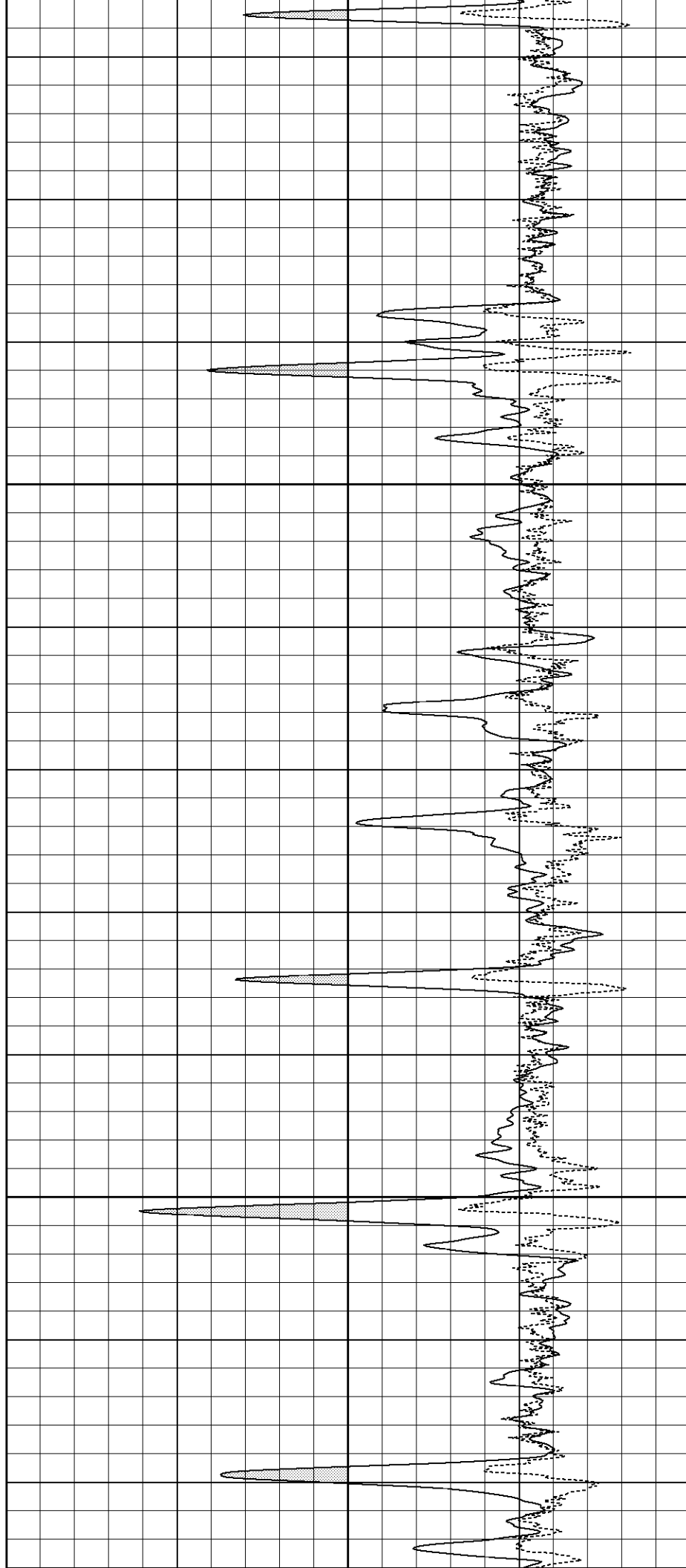
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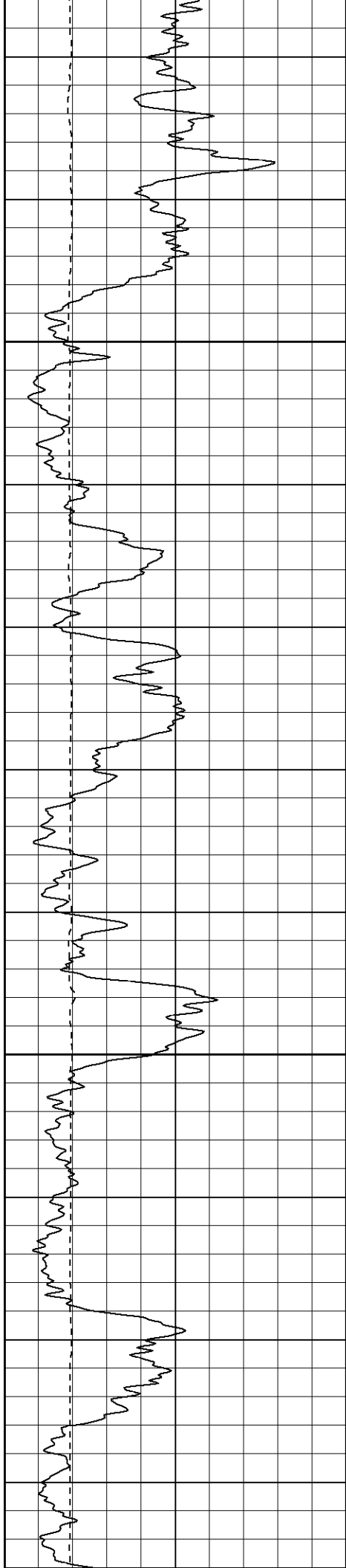




1200

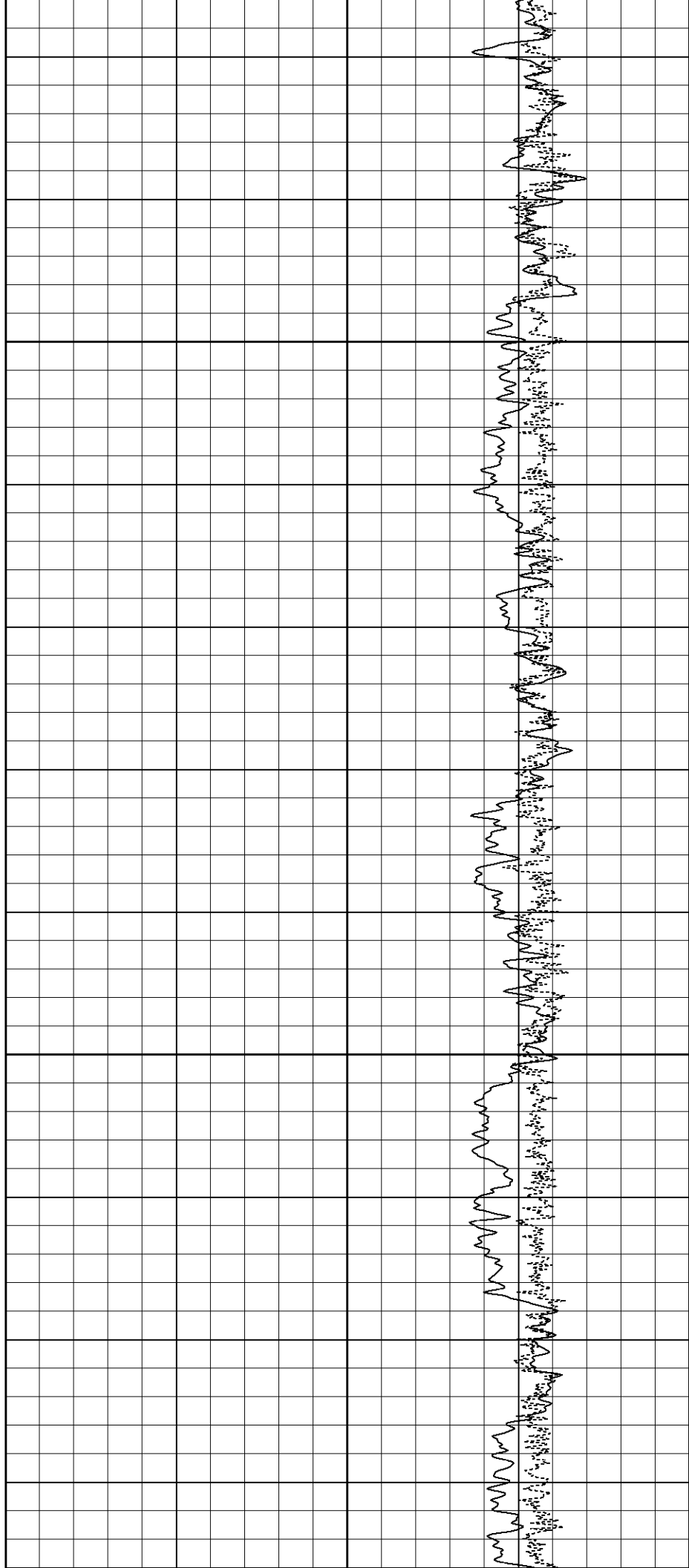
1250

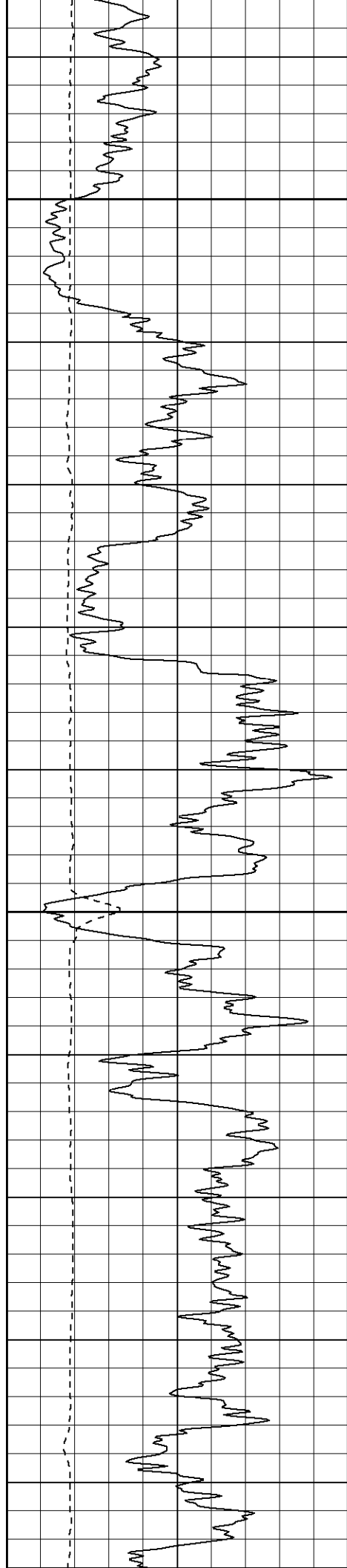




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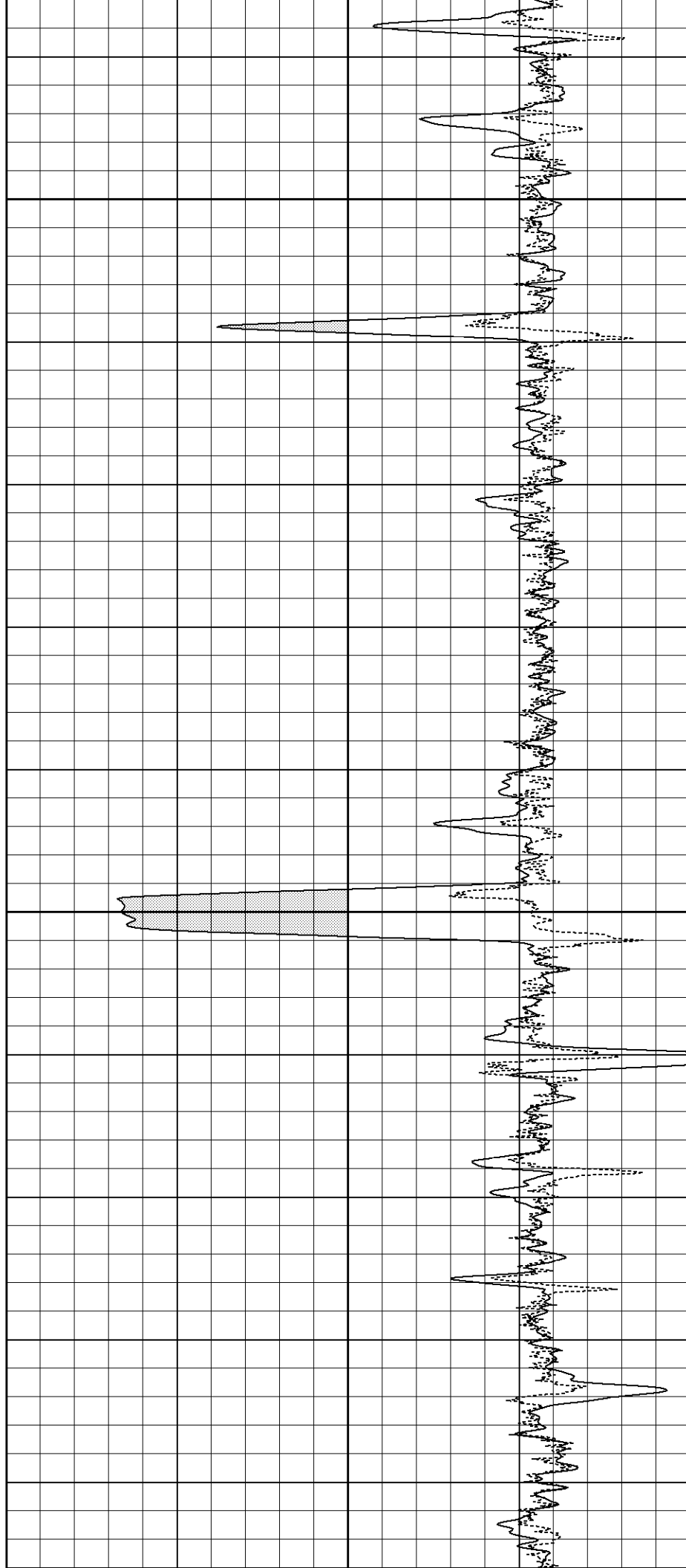
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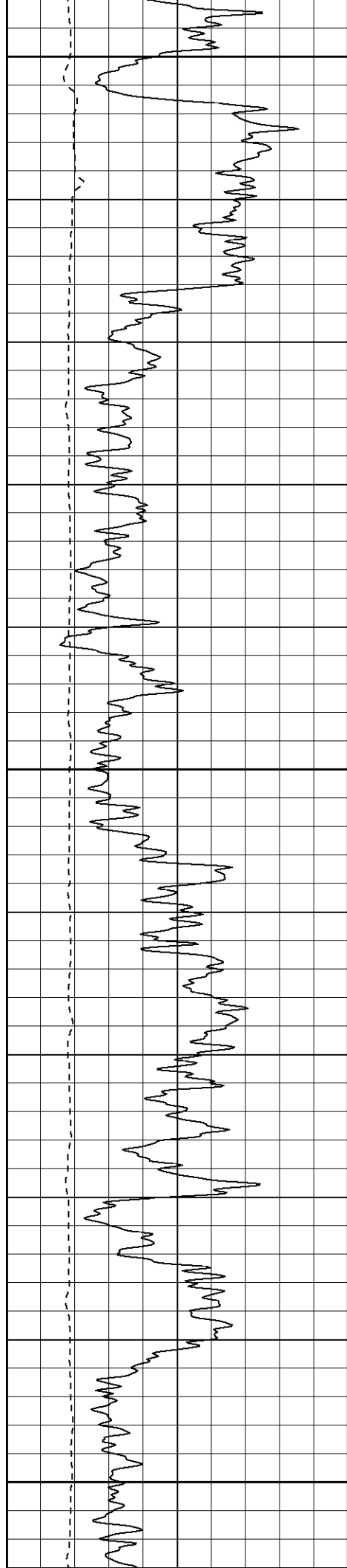




1400

1450

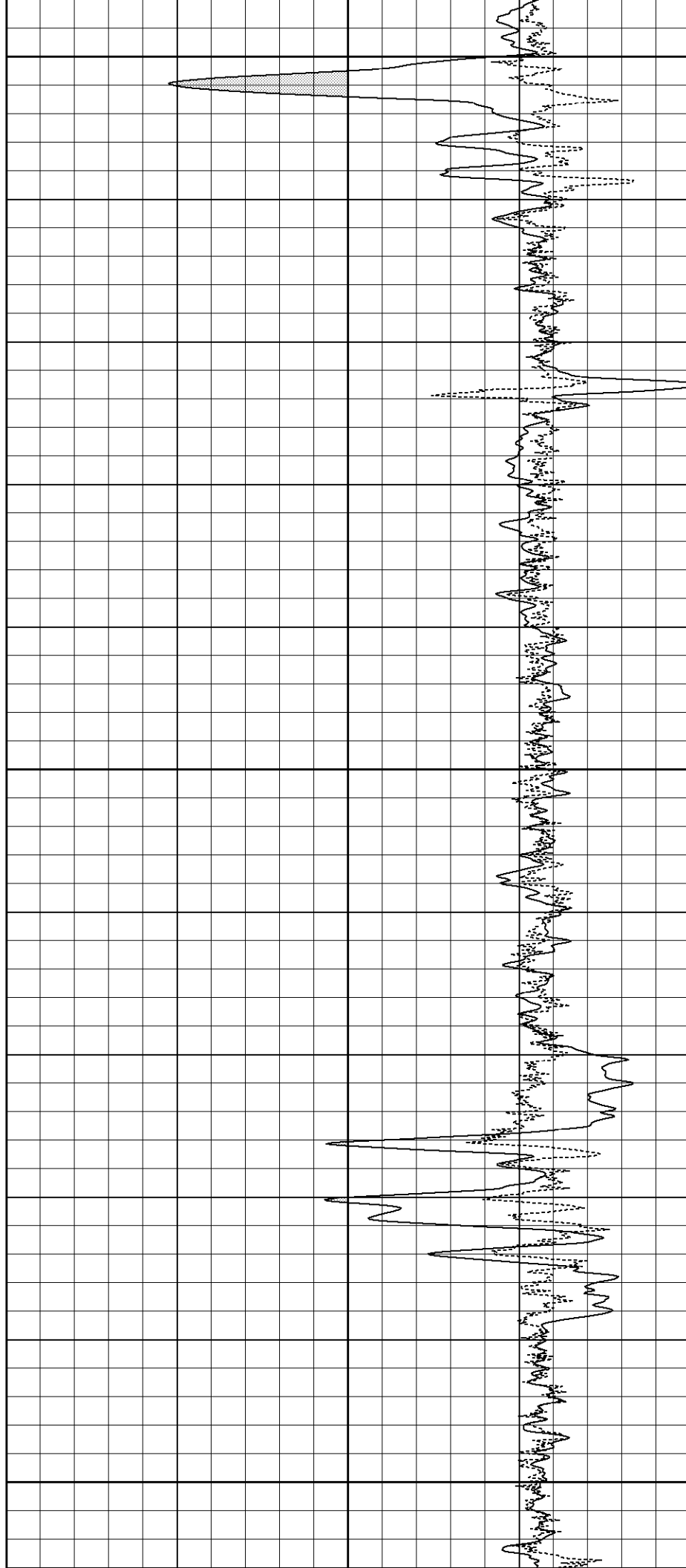


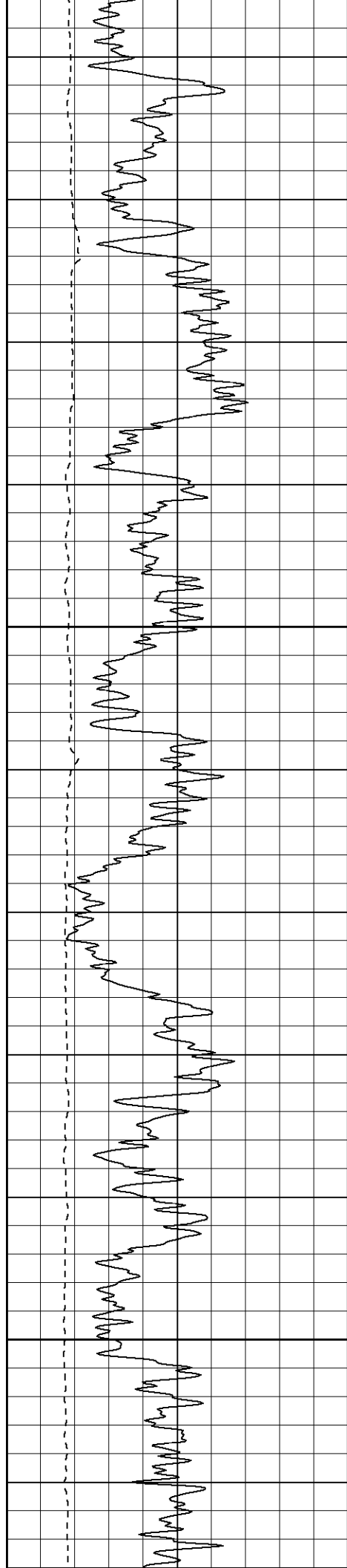


1500

1550

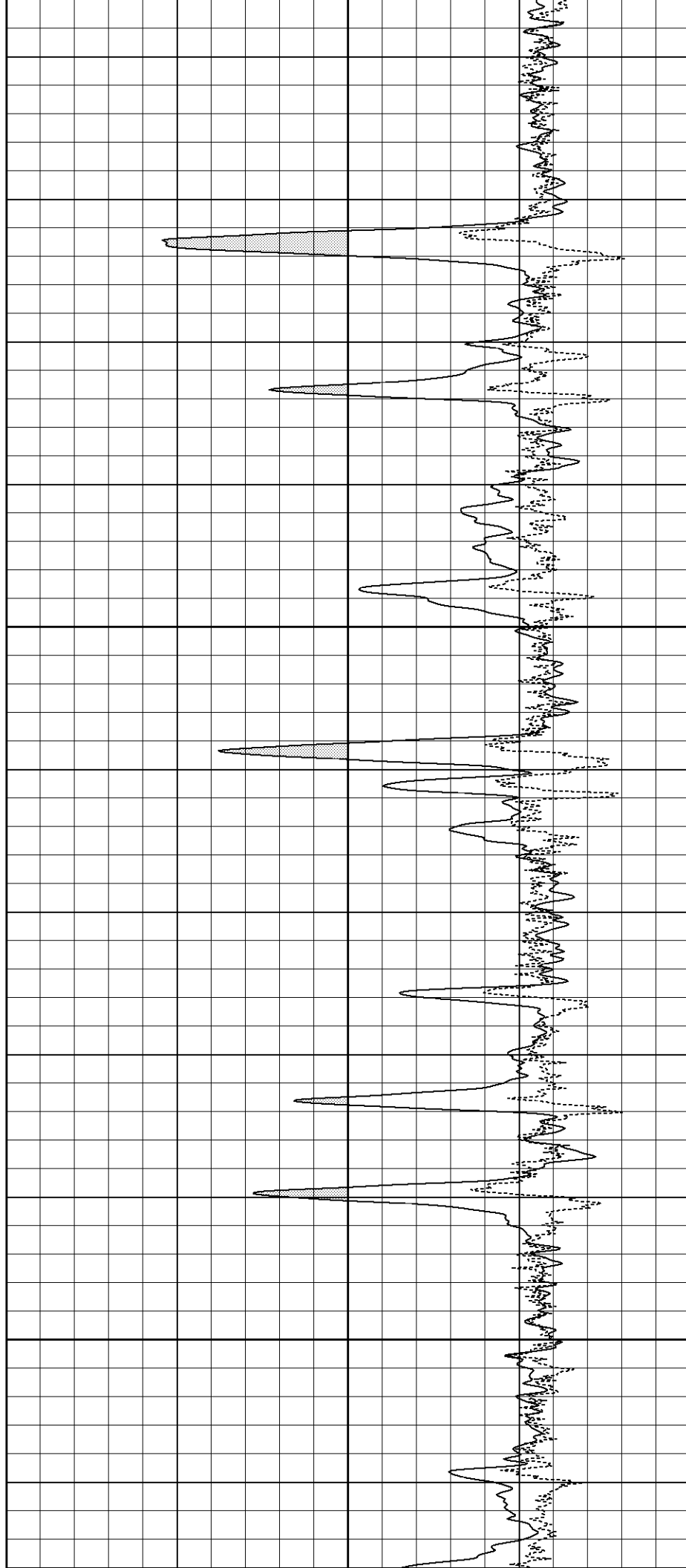
1600

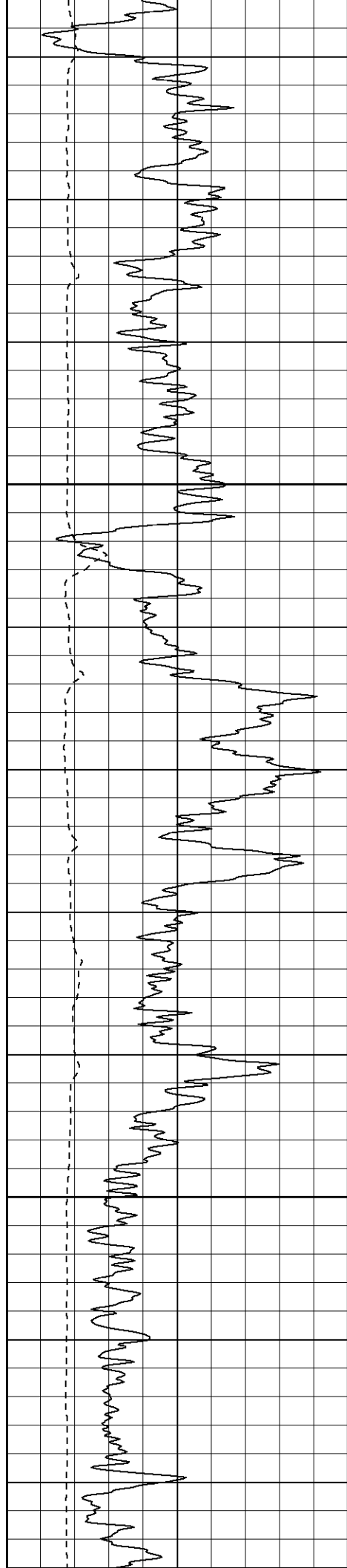




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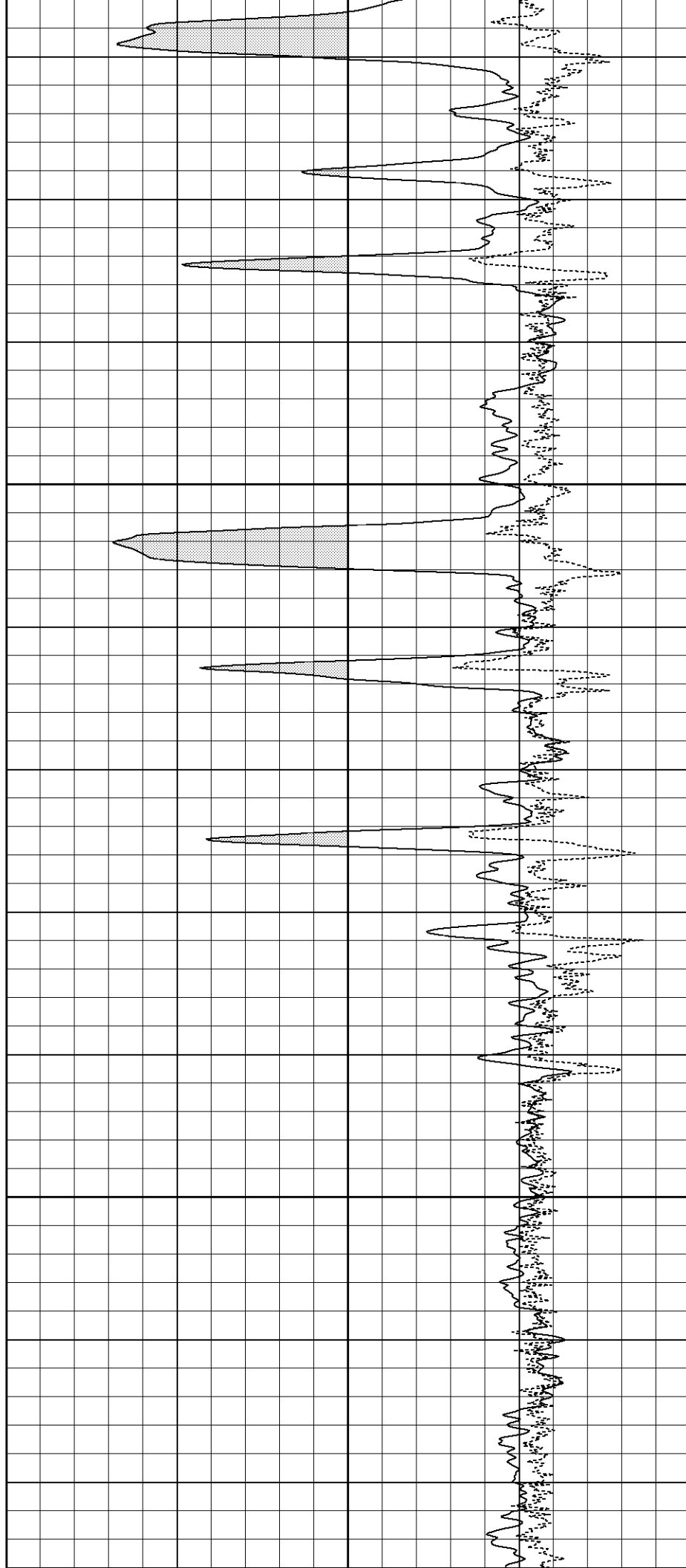
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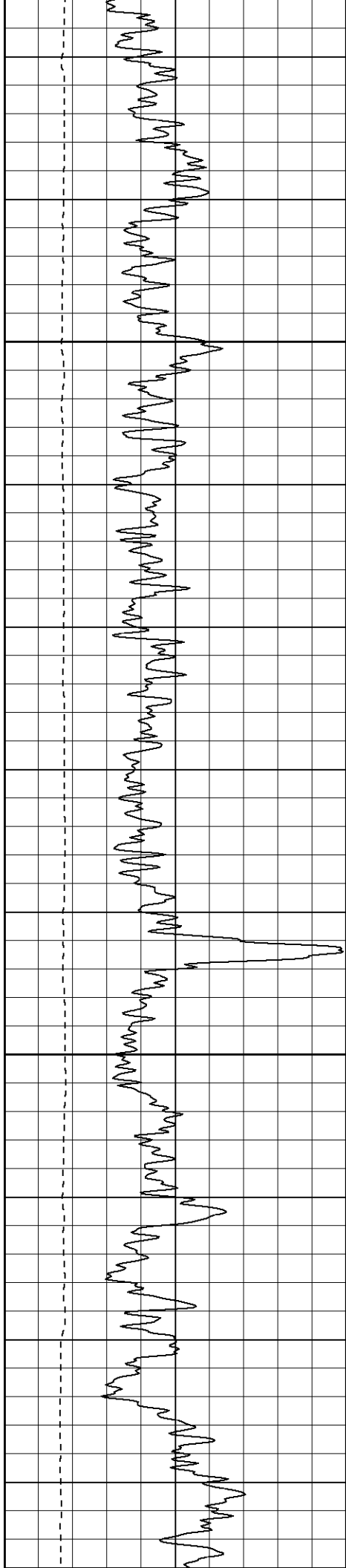




1750

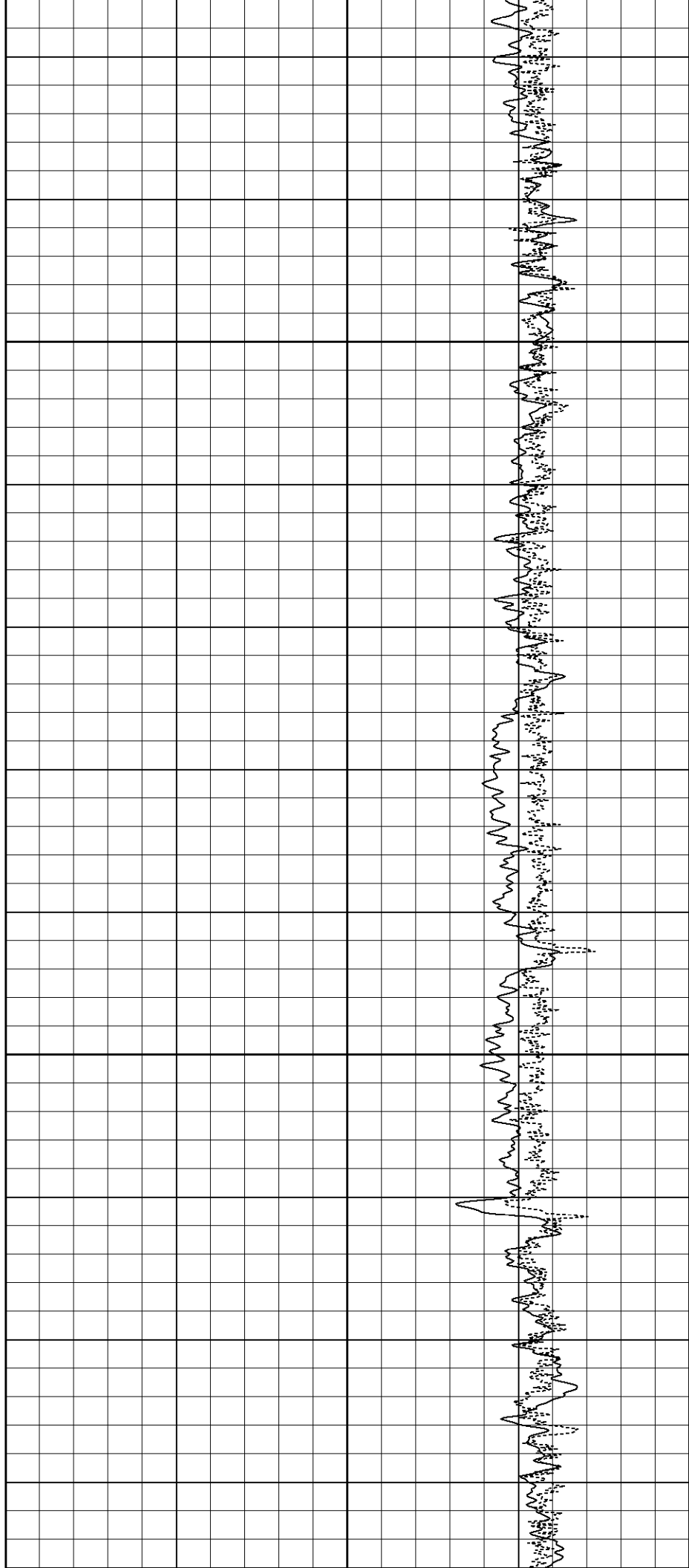
1800

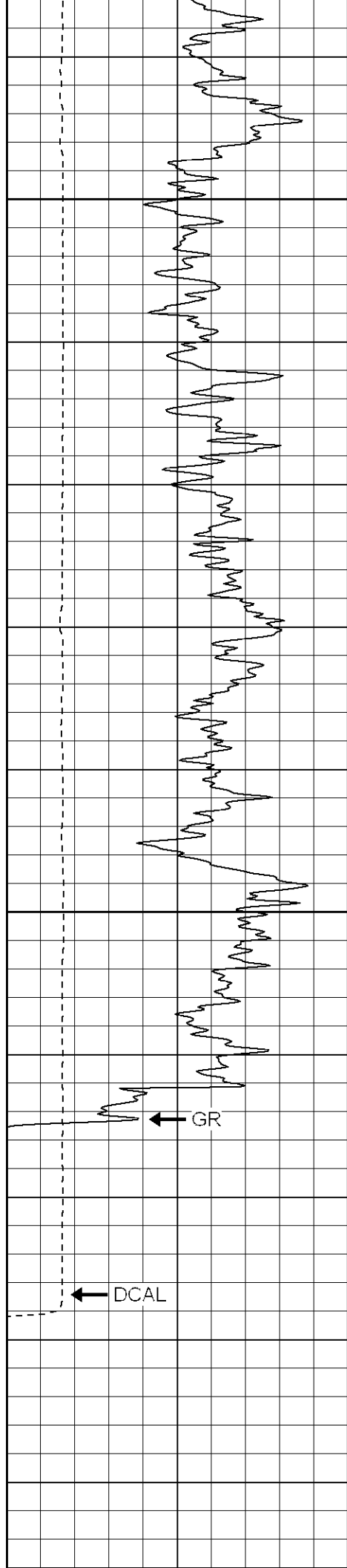




1850

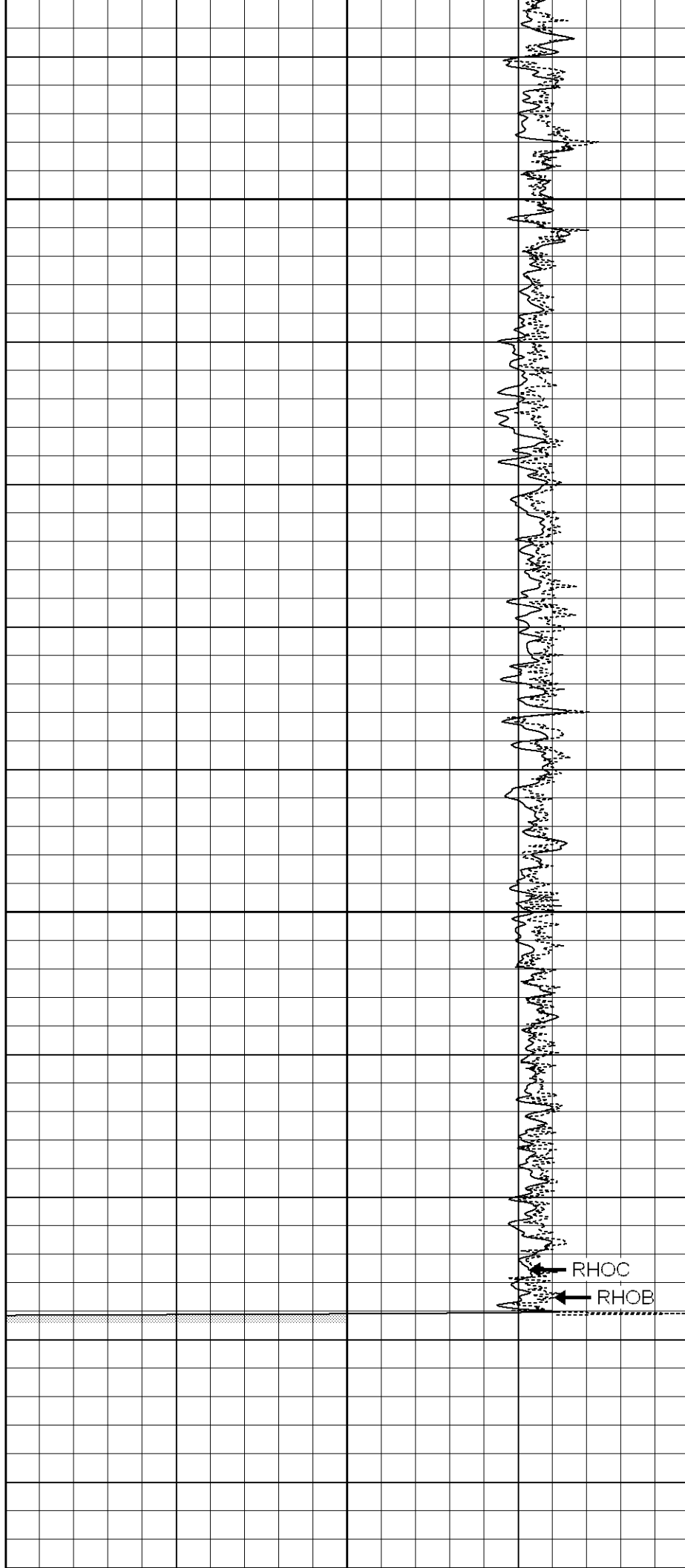
1900





1950

2000







RHOC

RHOB

Neutron Calibration Report		
Serial Number:	802	
Tool Model:	2.75POH	
Performed:	Fri Feb 09 08:32:01 2007	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report		
Serial Number:	804	
Tool Model:	2.75POH	
Performed:	Fri Feb 09 00:46:24 2007	
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)
GR	37.84		None	0.75	1.50	5.00
			GR-2.75POH (804) Probe	3.73	2.75	43.00
NEU	32.30		NEU-2.75POH (802) Probe Epithermal	4.75	2.75	58.00
LSD DCAL SSD	24.47		CDL-2.75POH (902) Probe	8.43	2.75	106.00
	24.19					
	23.95					
			Probe	0.89	3.50	20.00
CILD SP	10.60		DIL-G (5375) Gearhart	20.83	4.00	345.00
	10.60					

