

Patterson

**COMPENSATED DENSITY
NEUTRON
LOG**

Company XTO Energy Inc.		Company XTO Energy Inc.	
Well Golden Eagle 19-15		Well Golden Eagle 19-15	
Field Purgatoire River		Field Purgatoire River	
County Las Animas		County Las Animas	
State Colorado		State Colorado	
Location:		API # : 05 071 08717 00	Other Services
1121' FSL & 2332' FEL			dil
SEC 19 TWP 33S RGE 67W			
Permanent Datum	Ground Level	Elevation	7220'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		
Elevation			
K.B. -----			
D.F. -----			
G.L. 7220'			
Date	03-12-06		
Run Number	One		
Depth Driller	1950'		
Depth Logger	1944'		
Bottom Logged Interval	1920'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 495'		
Casing Logger	495'		
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 a.m.		
Time Logger on Bottom	1:30 p.m.		
Maximum Recorded Temperature	106		
Equipment Number	T677		
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 1092' to 1320' due to foam.
4 miles past Weston to Bosque entrance go.2 miles and turn right
on old rail track, go 1 mile first location on right.

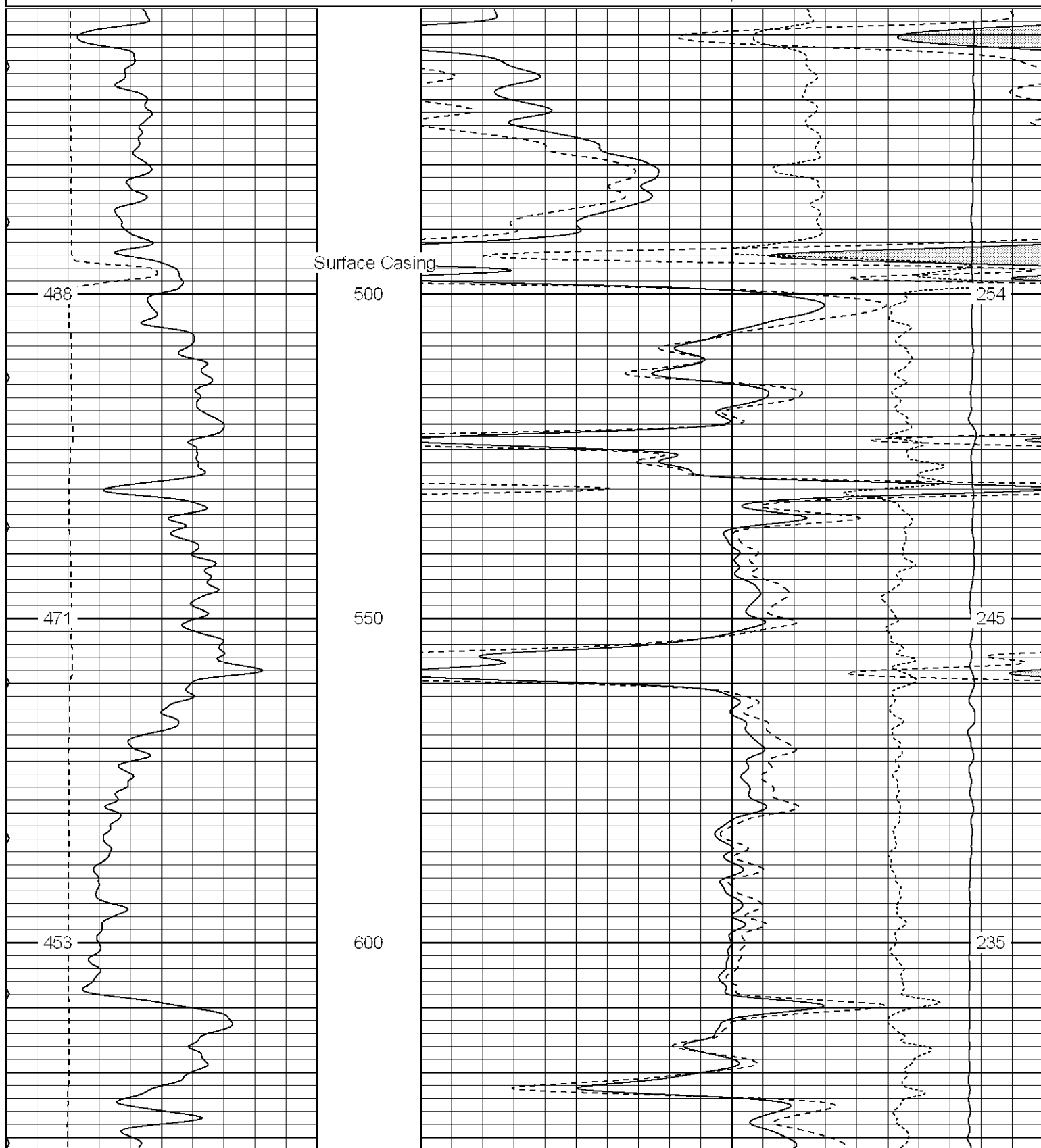
Patterson

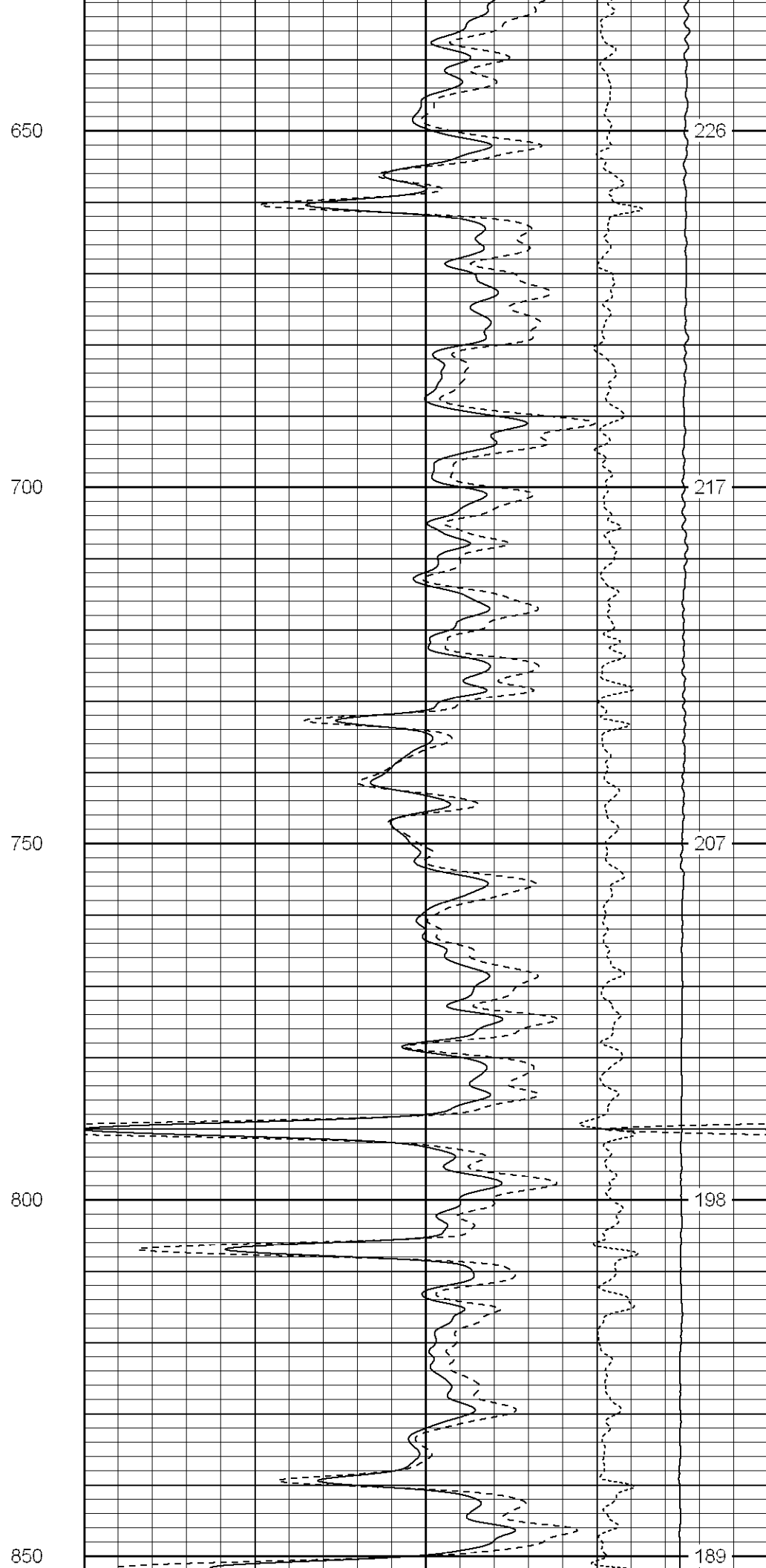
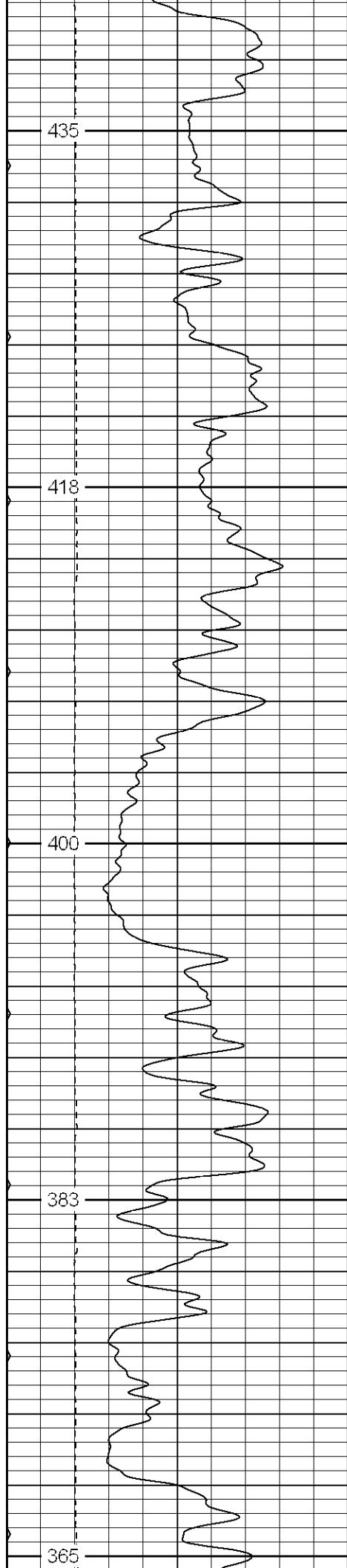
Main Pass

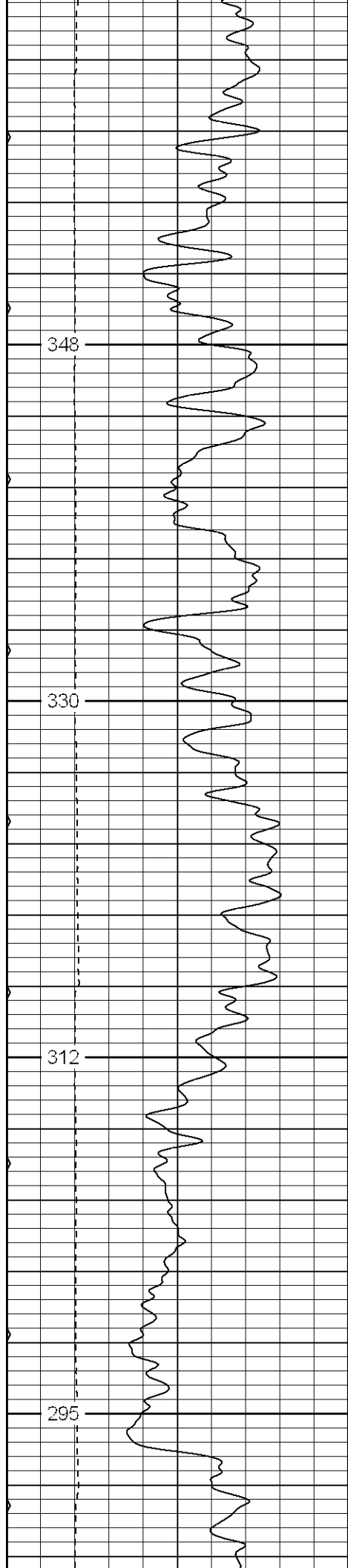
Database File: xtoge1915.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Sun Mar 12 15:00:51 2006 by Calc Warrior 7.0 STD Ope
Charted by: Depth in Feet scaled 1:240

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





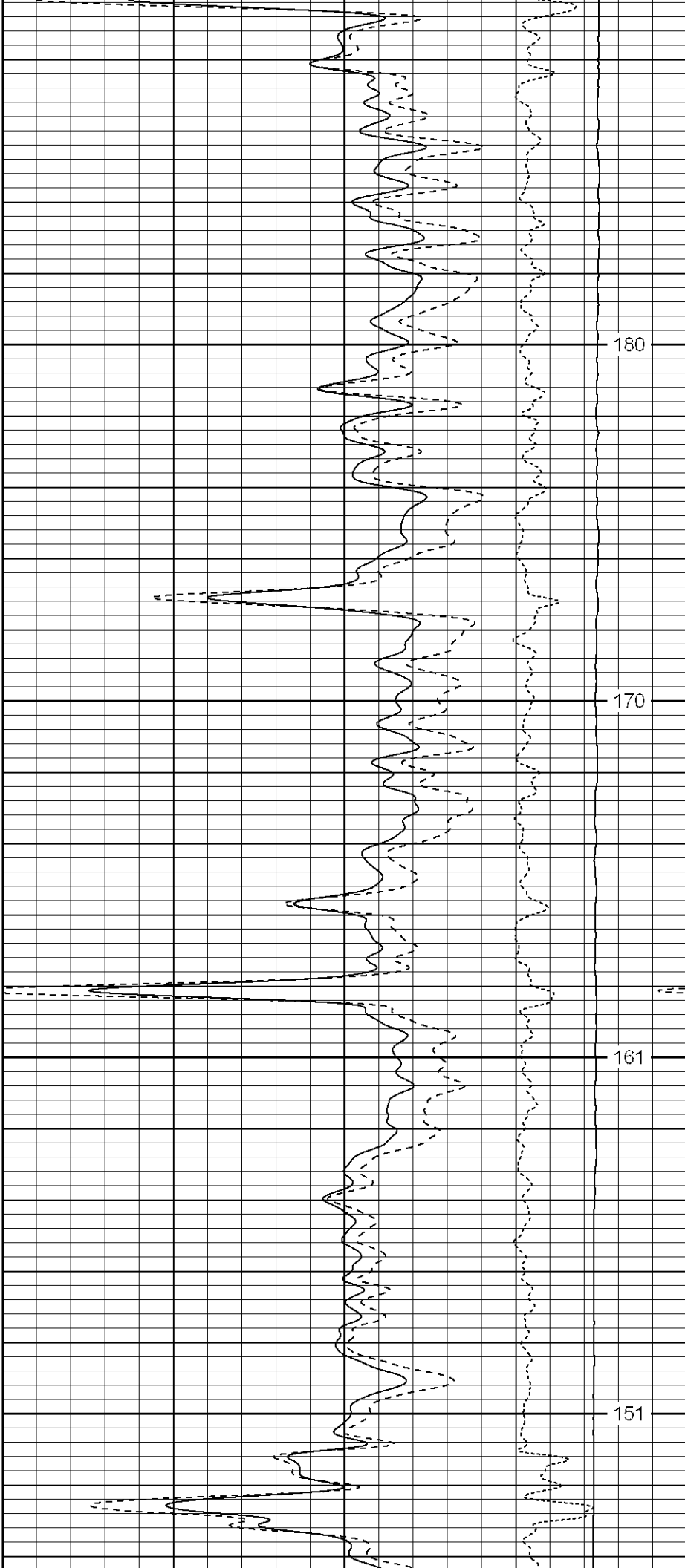


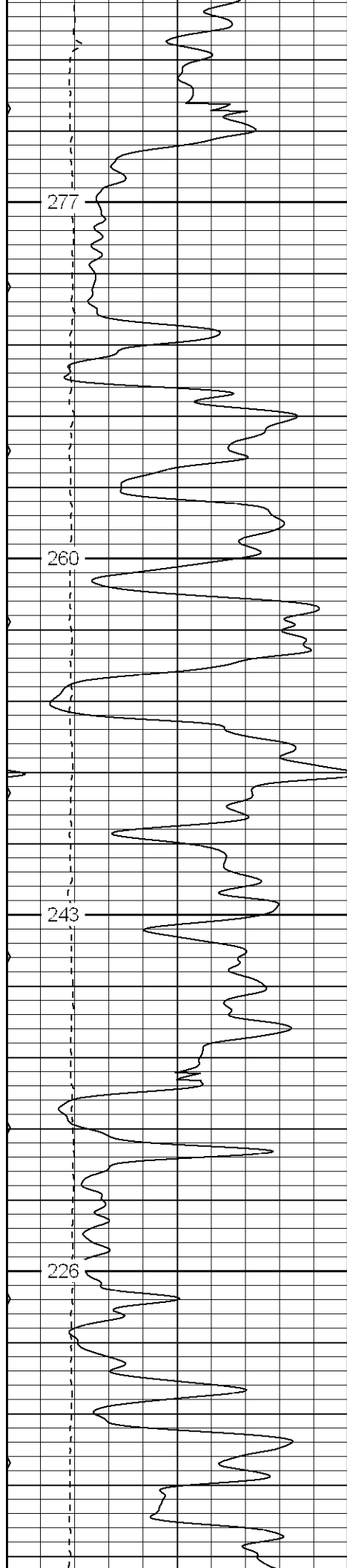
900

950

1000

1050



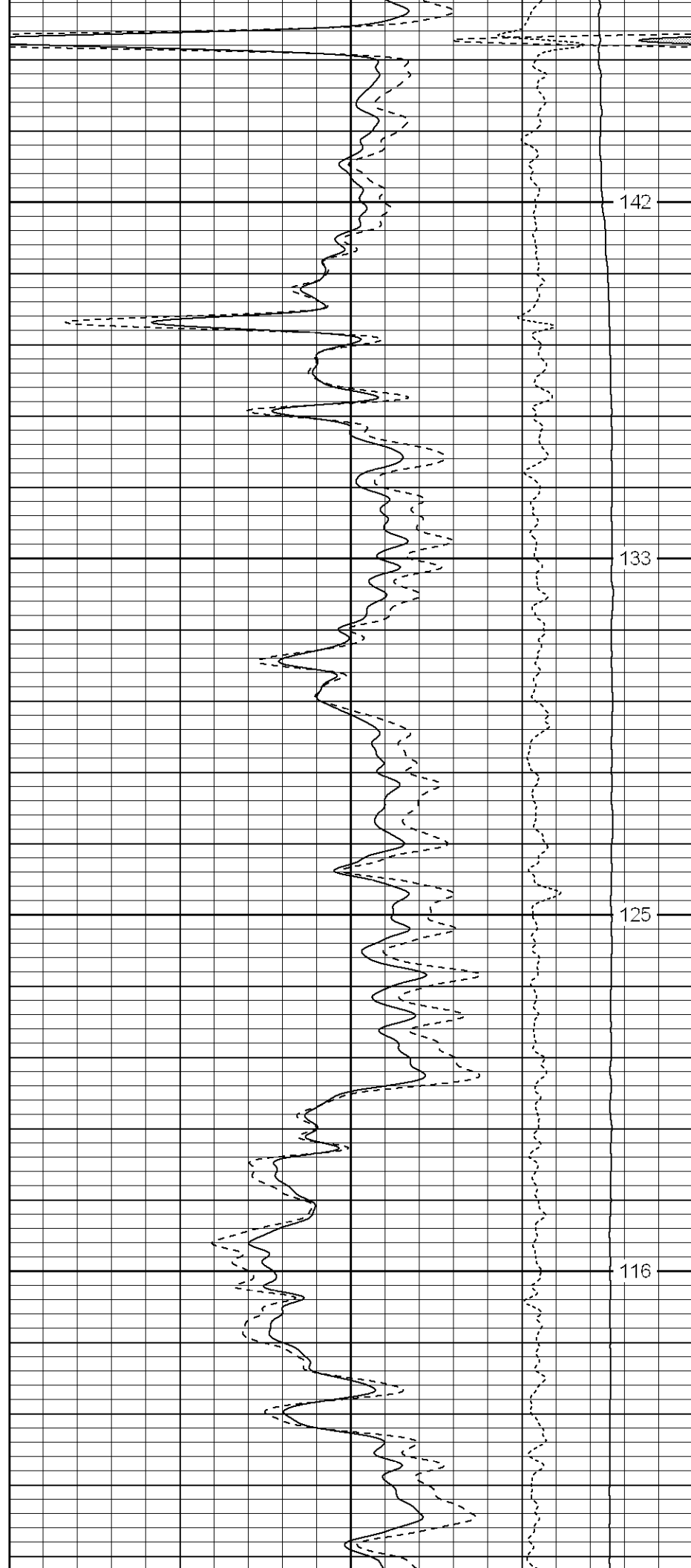


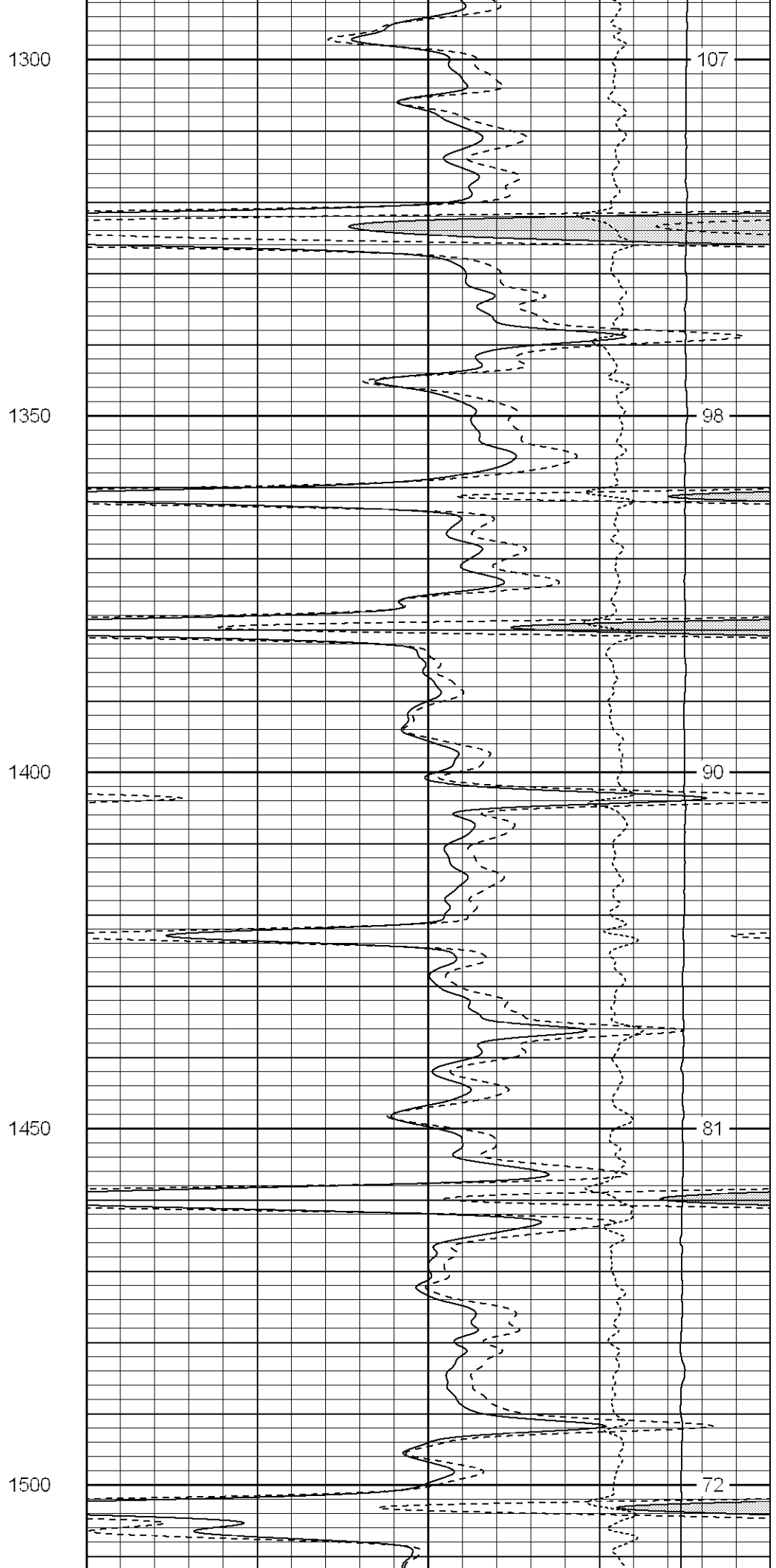
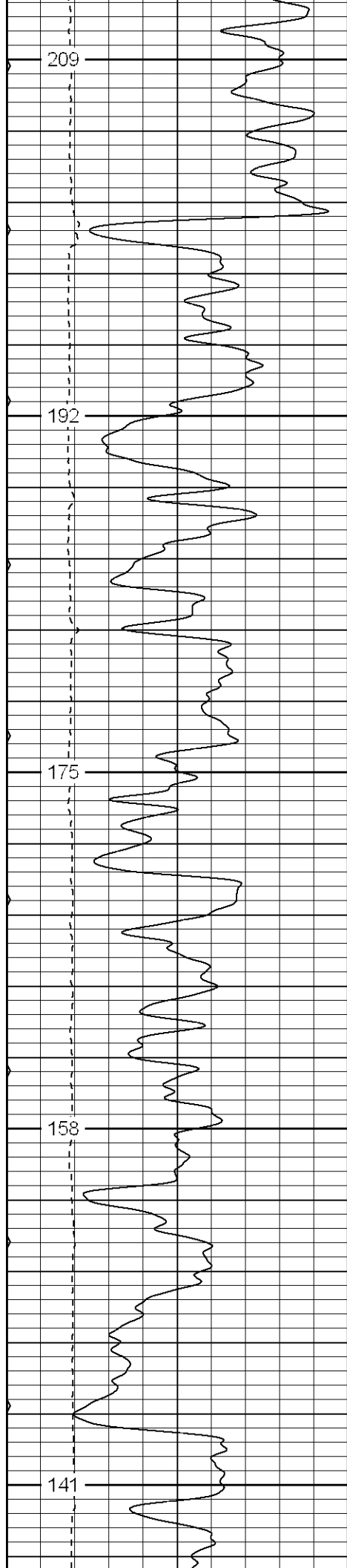
1100

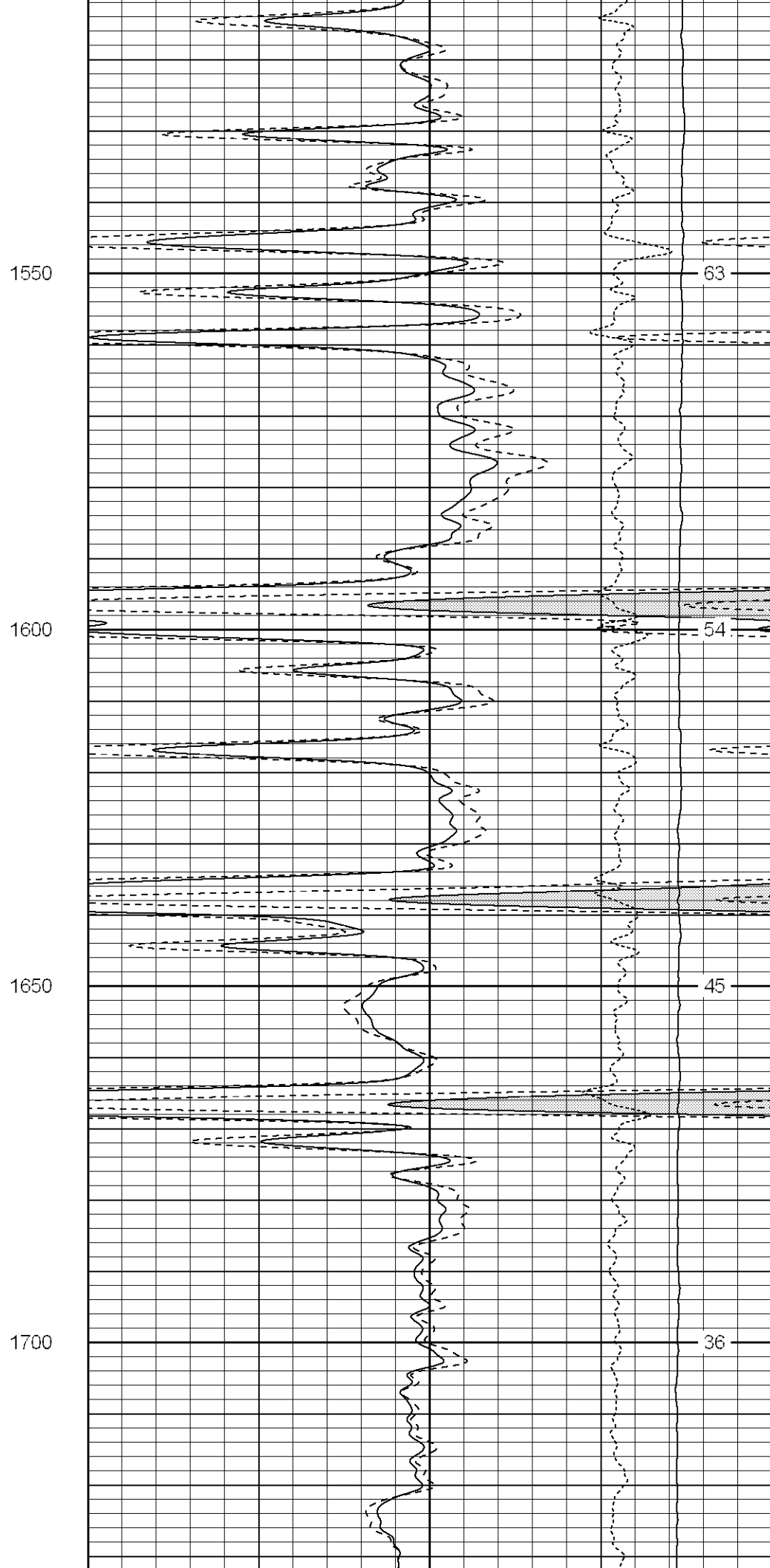
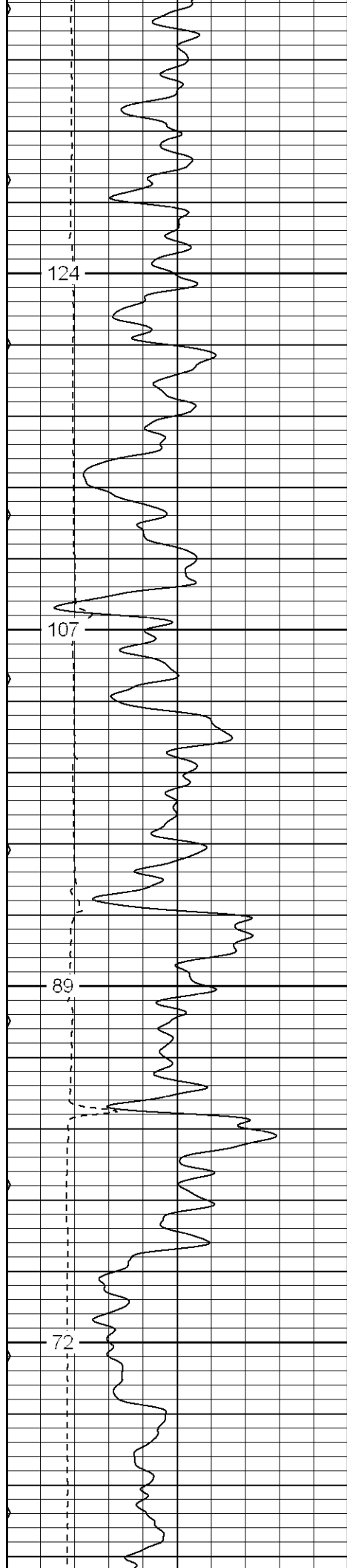
1150

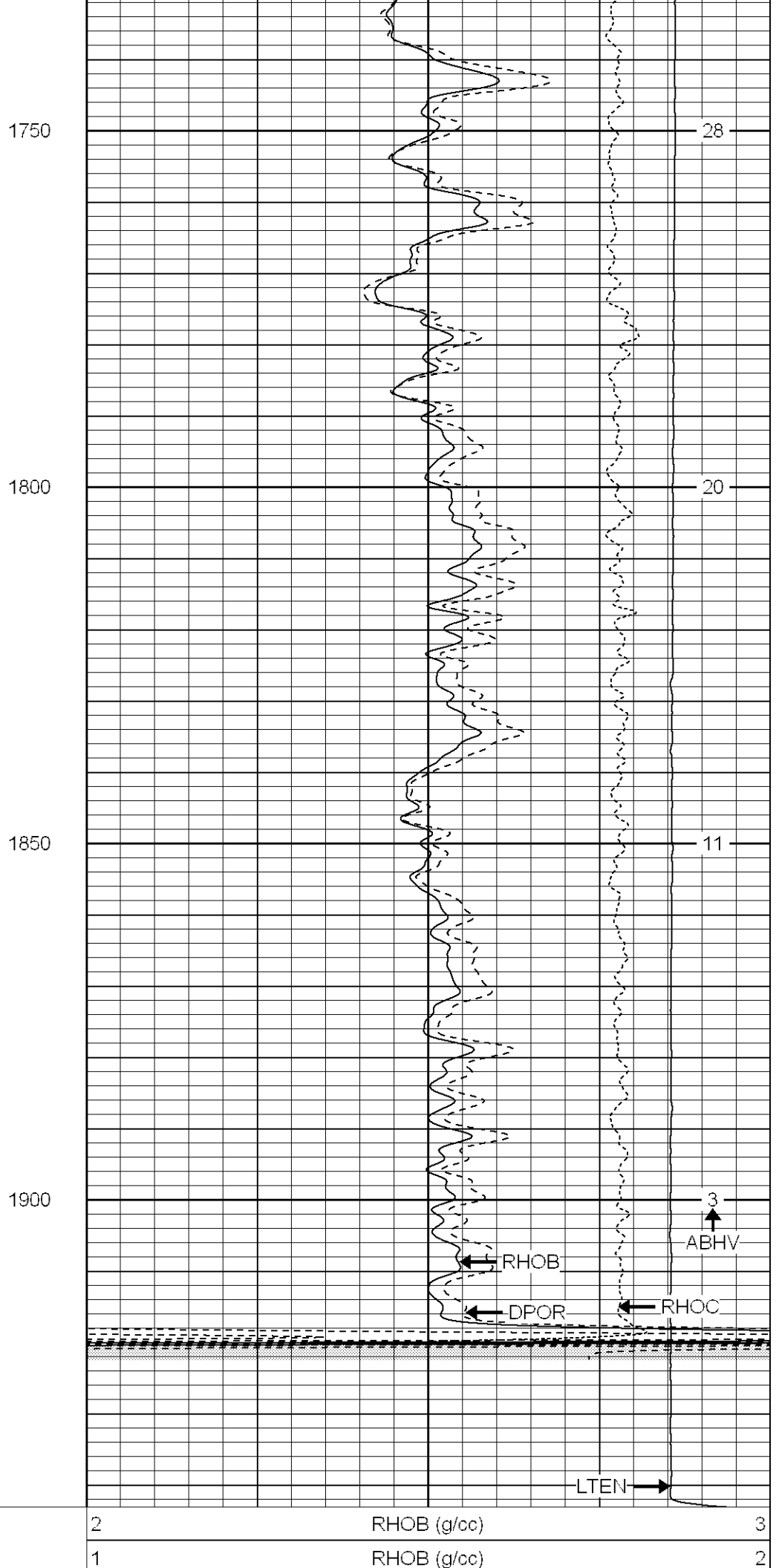
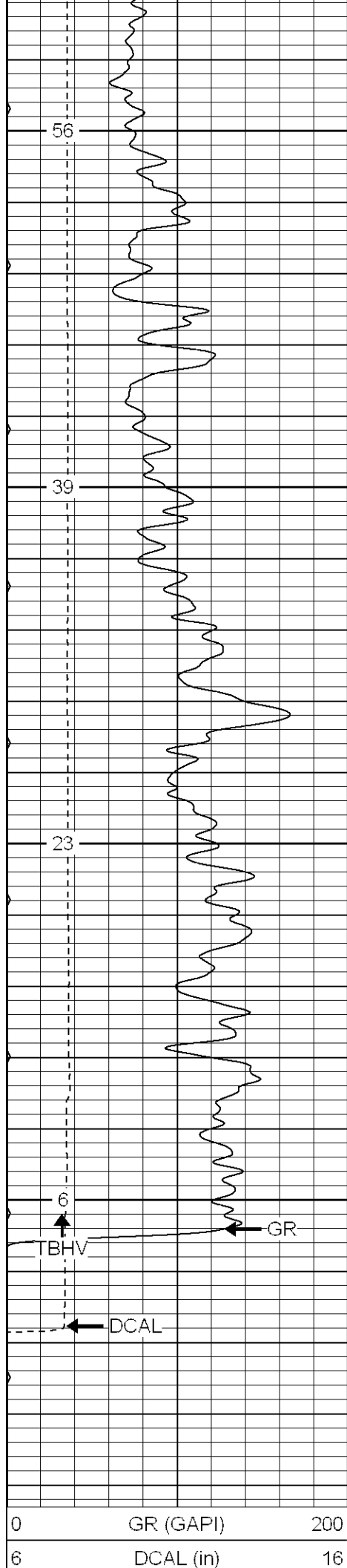
1200

1250









0	MINMK	80
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30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

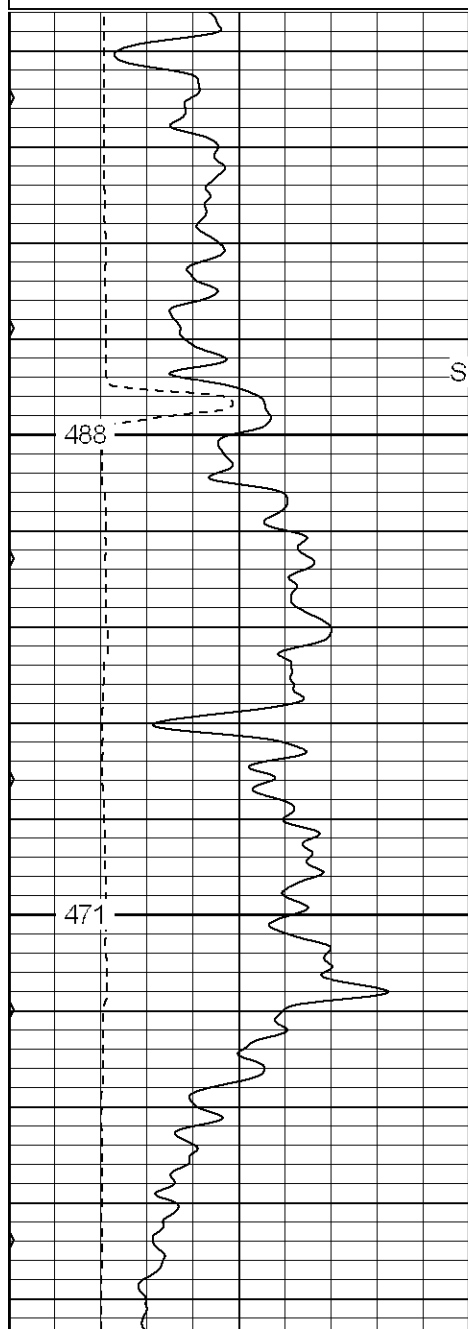
Patterson

Main Pass

Database File: xtoge1915.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Sun Mar 12 15:00:51 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

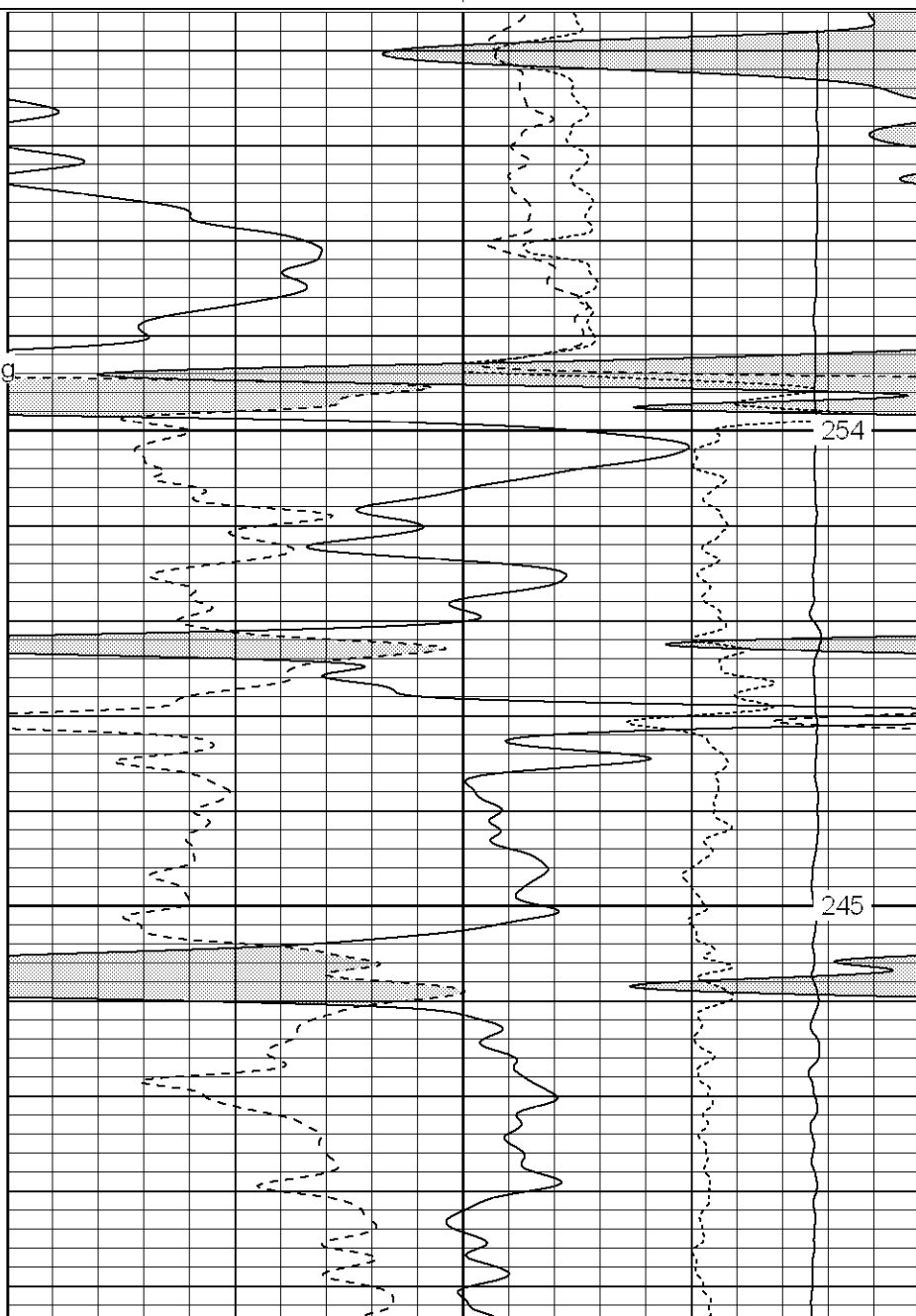
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

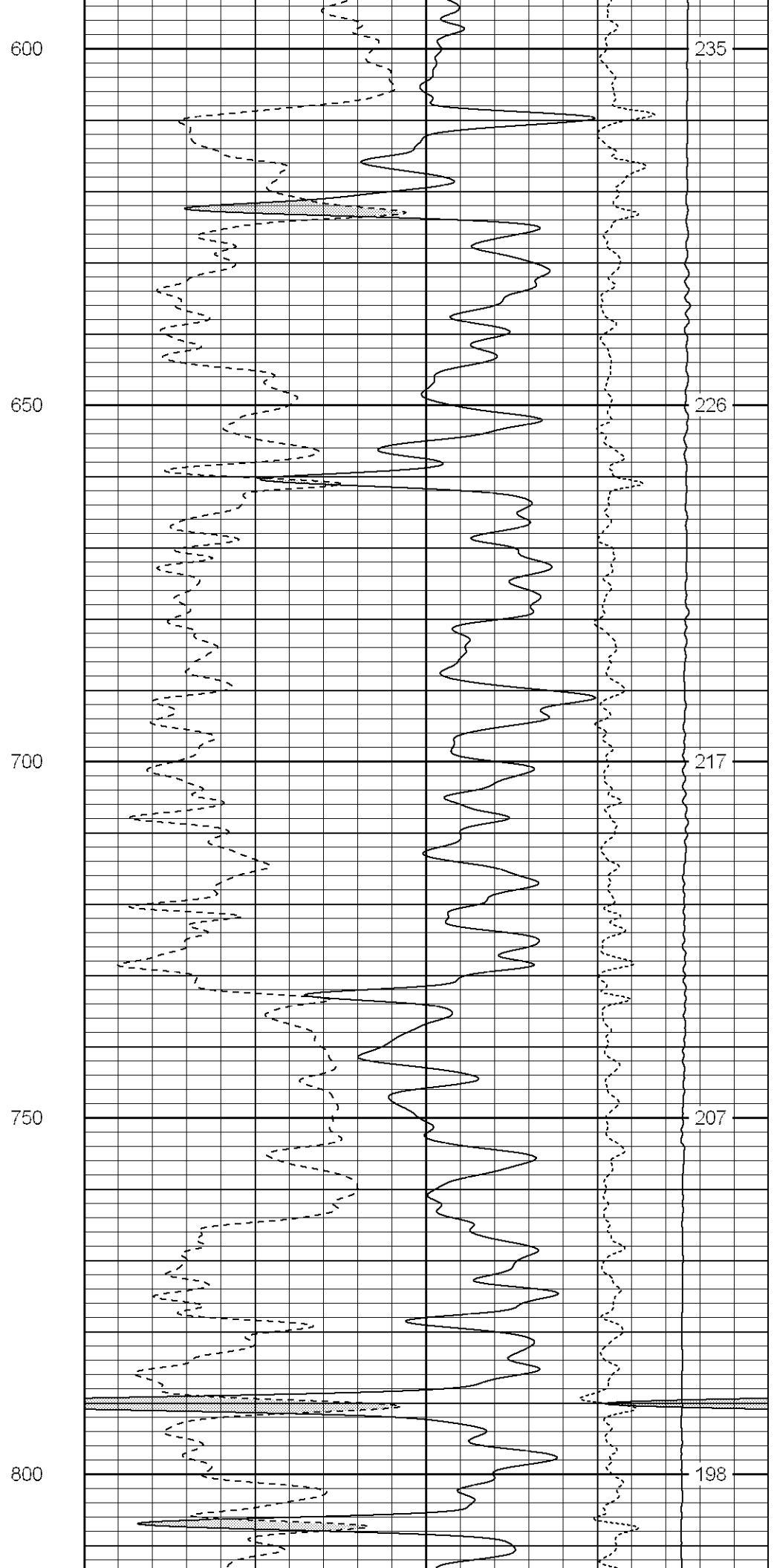
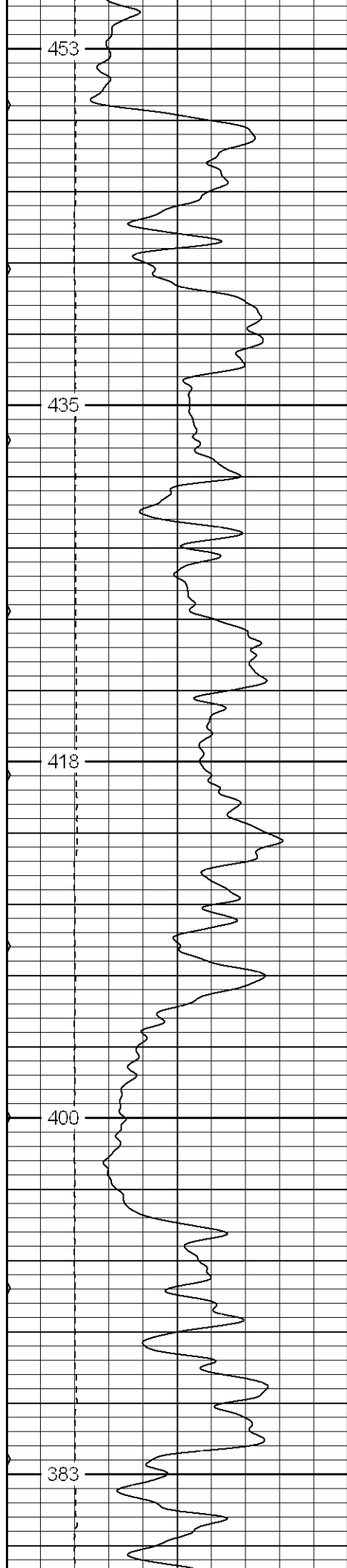


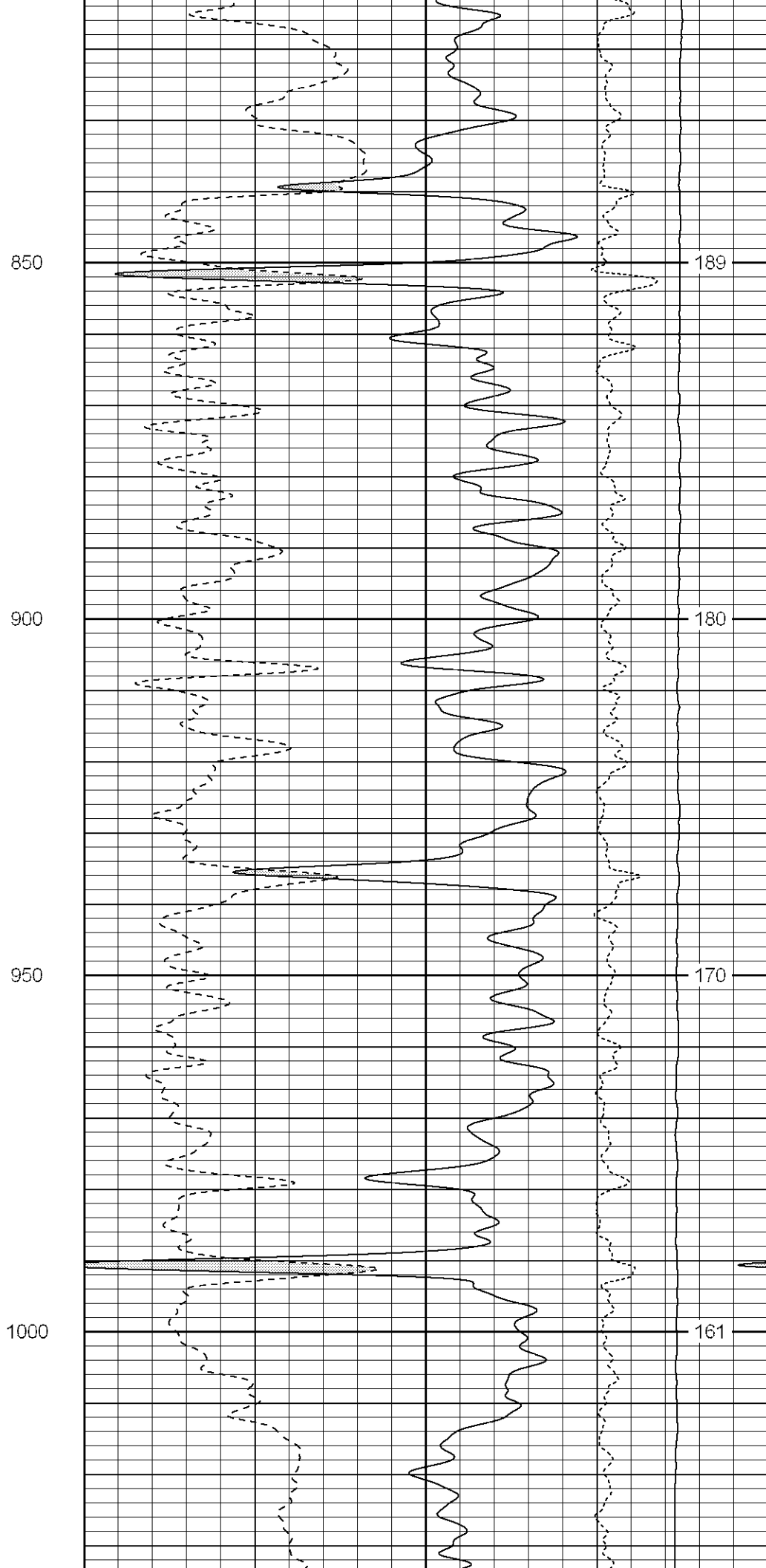
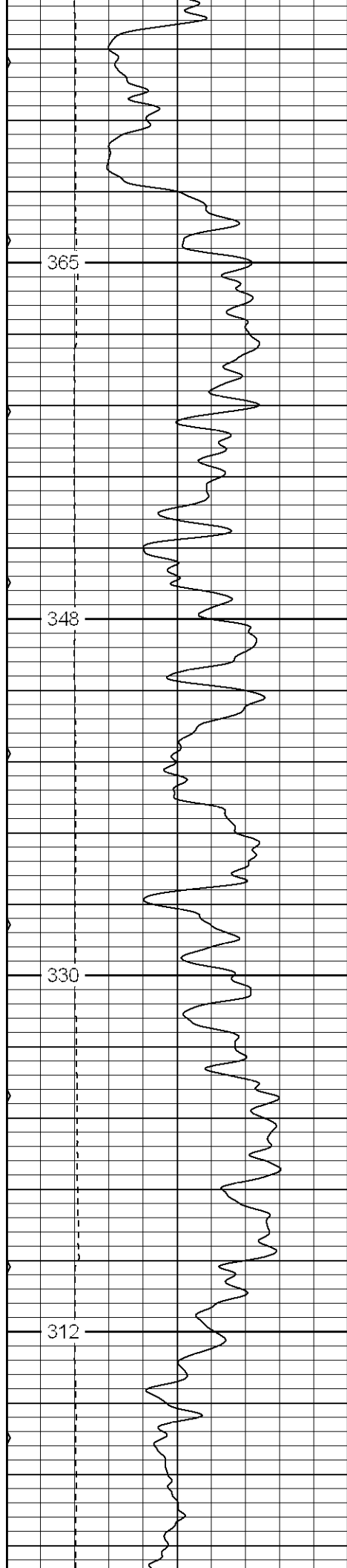
Surface Casing

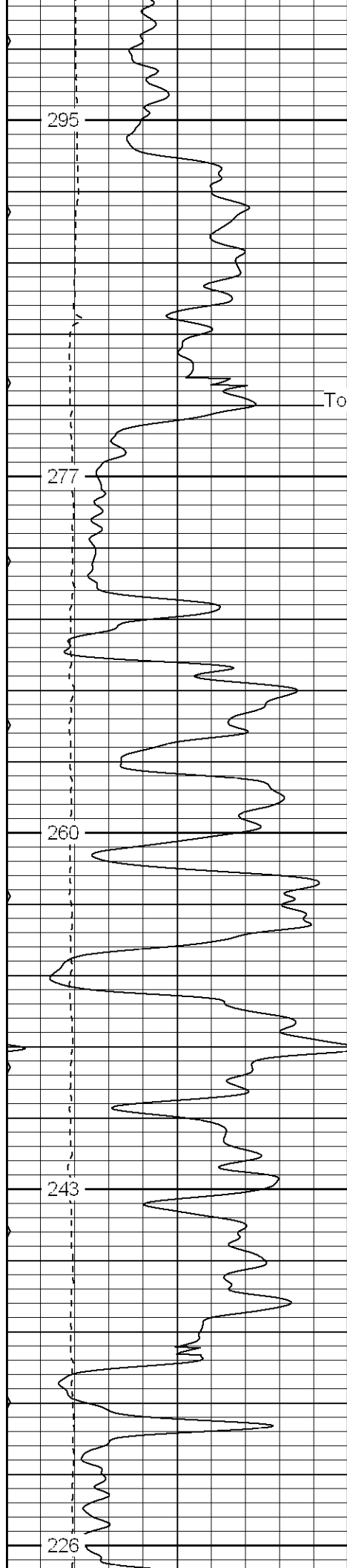
500

550









1050

Top of Raton Cong.

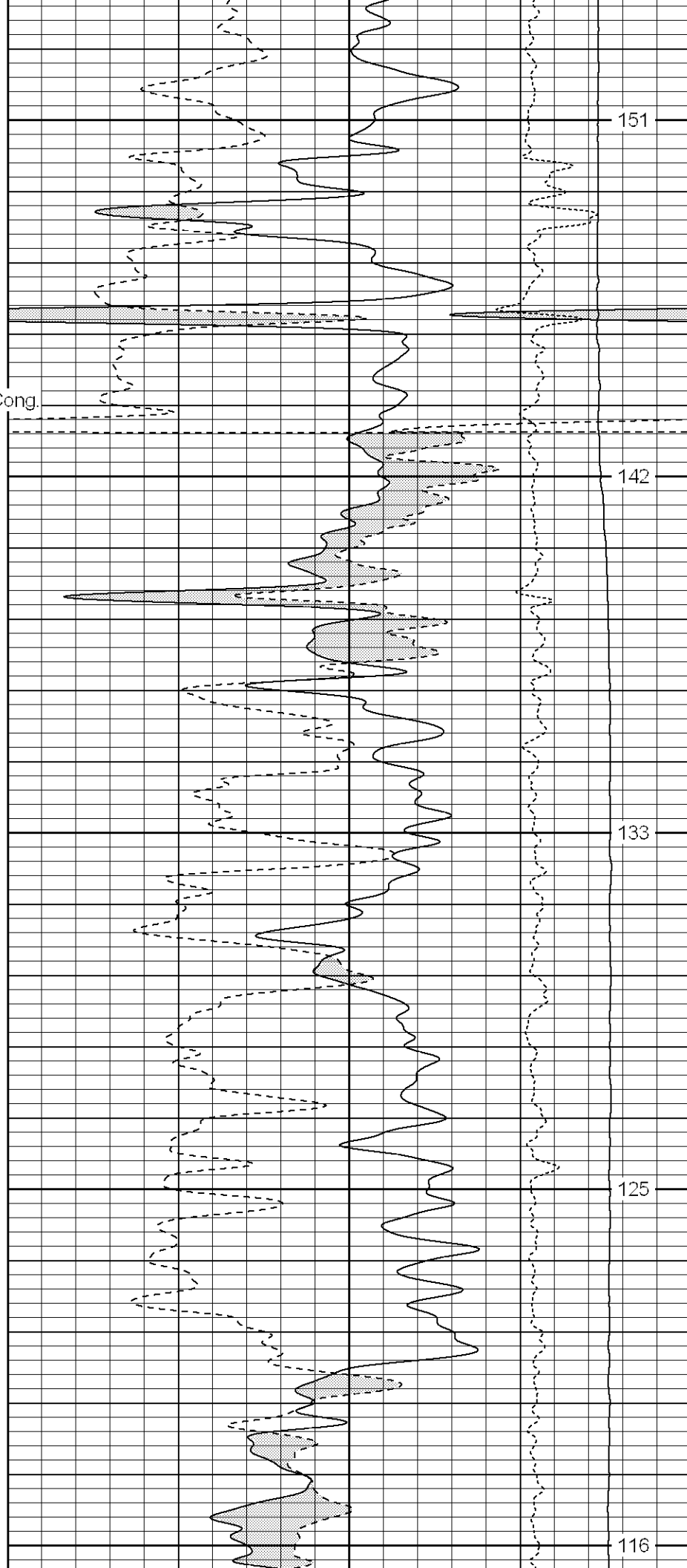
Air

1100

1150

1200

1250



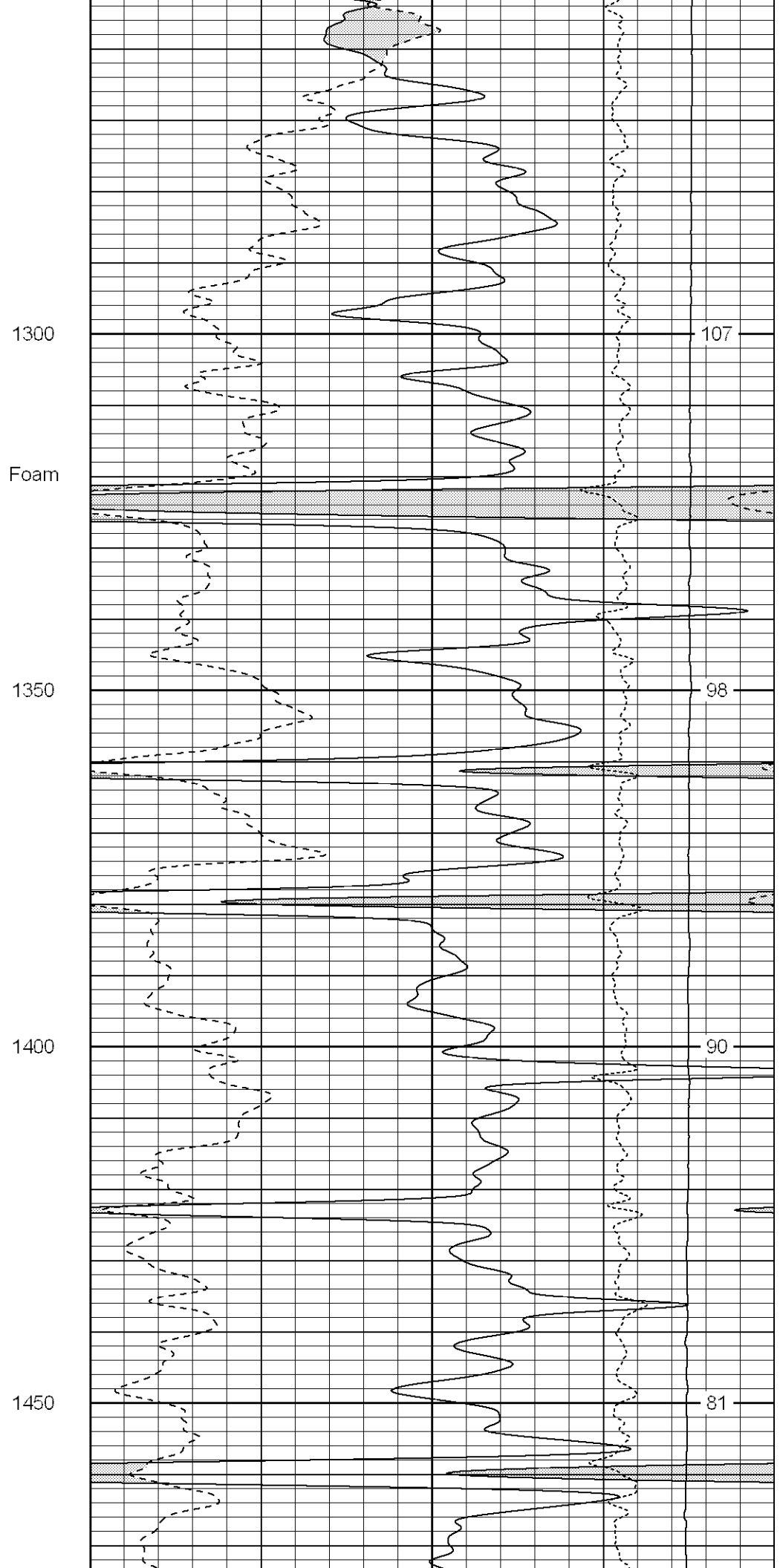
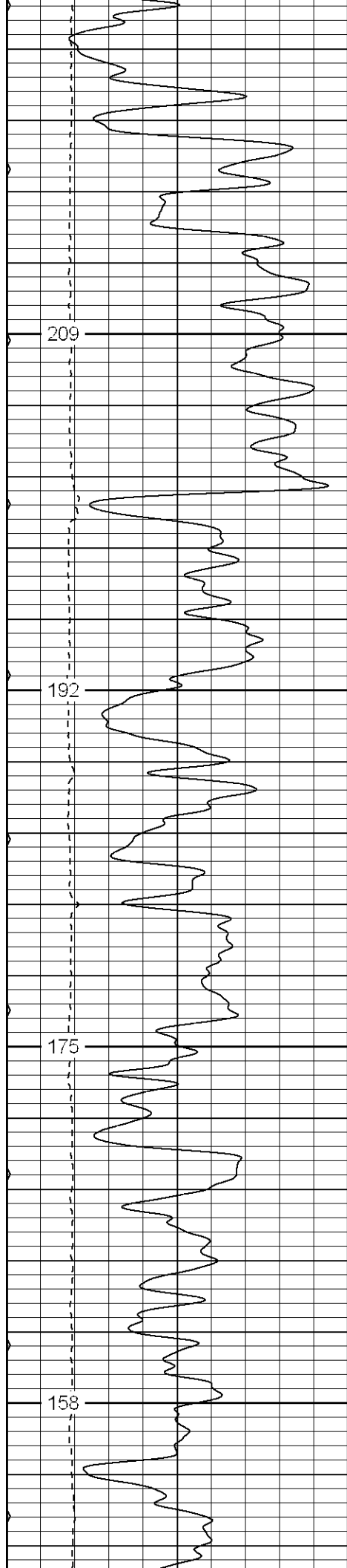
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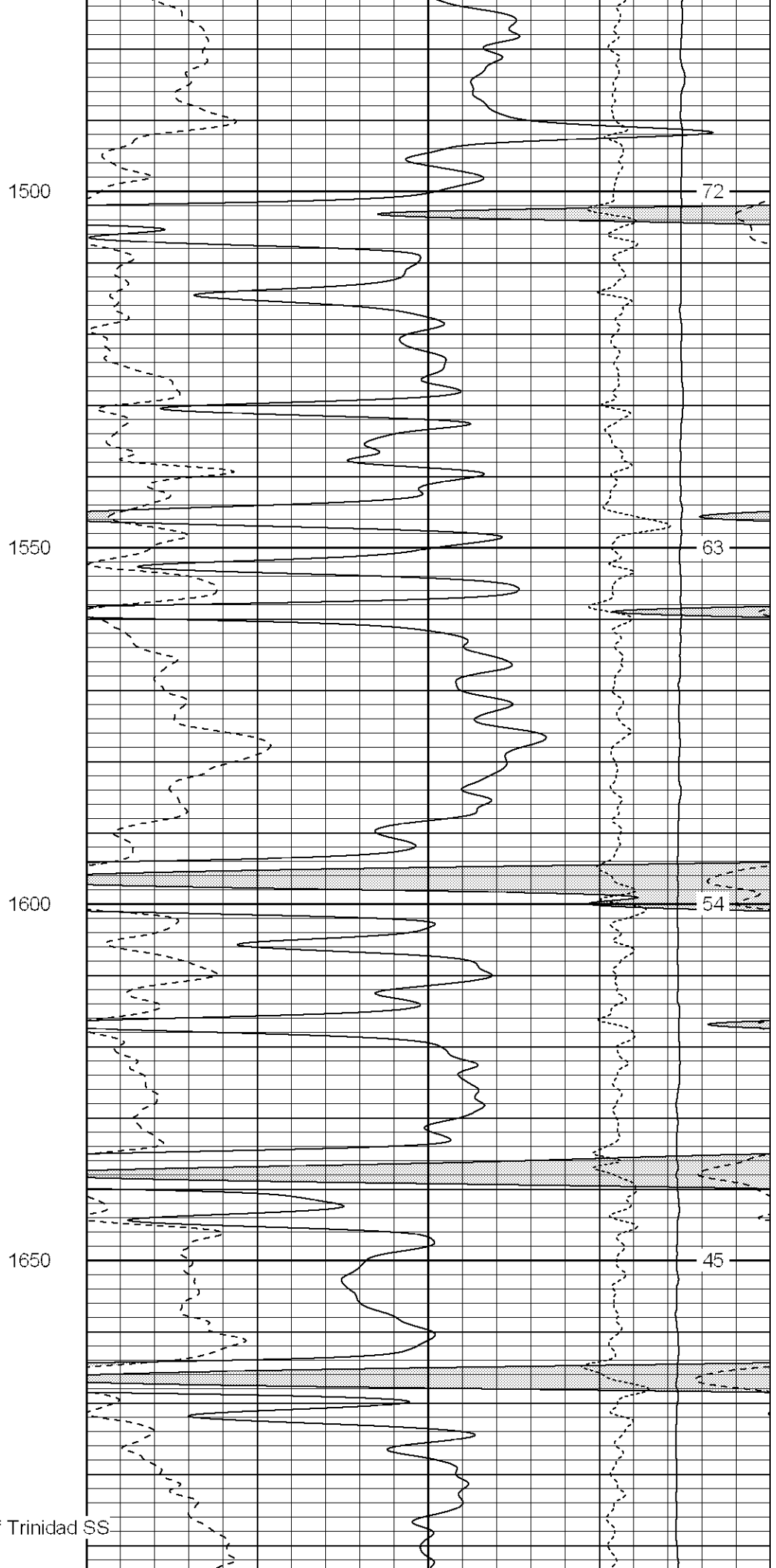
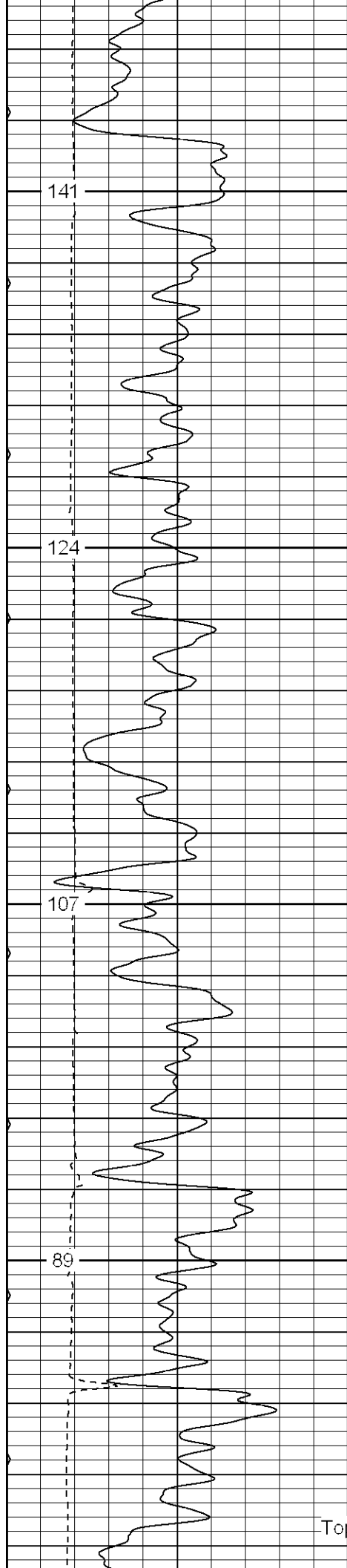
142

133

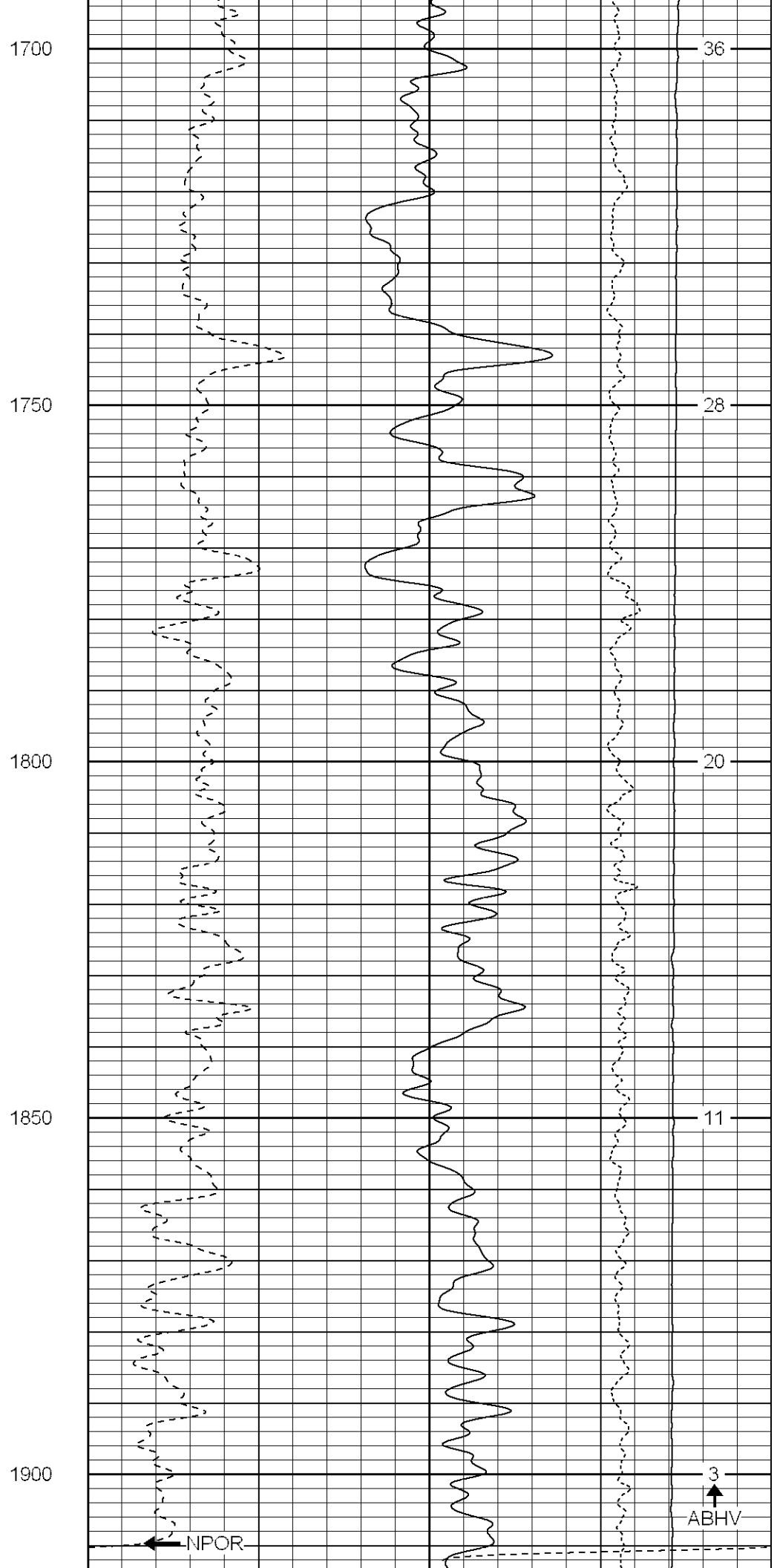
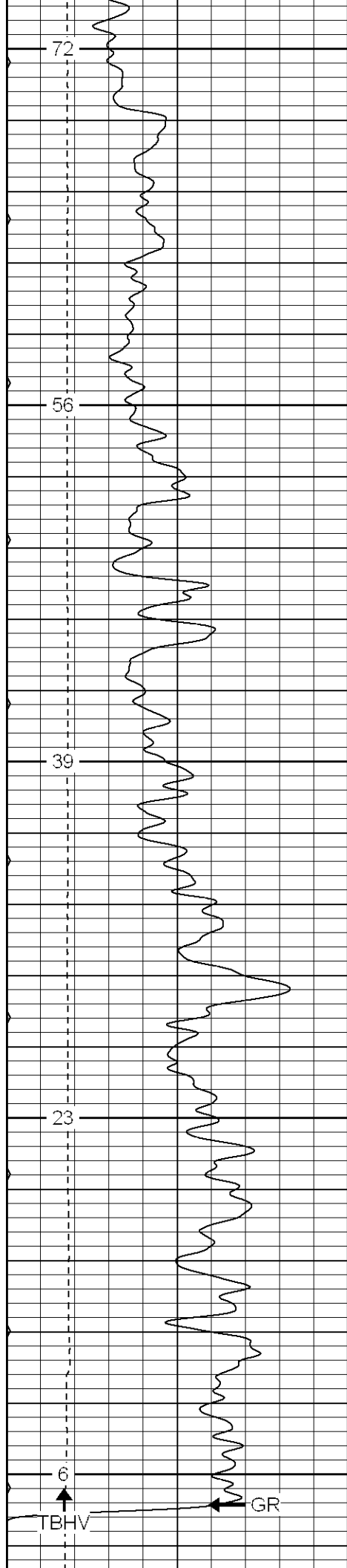
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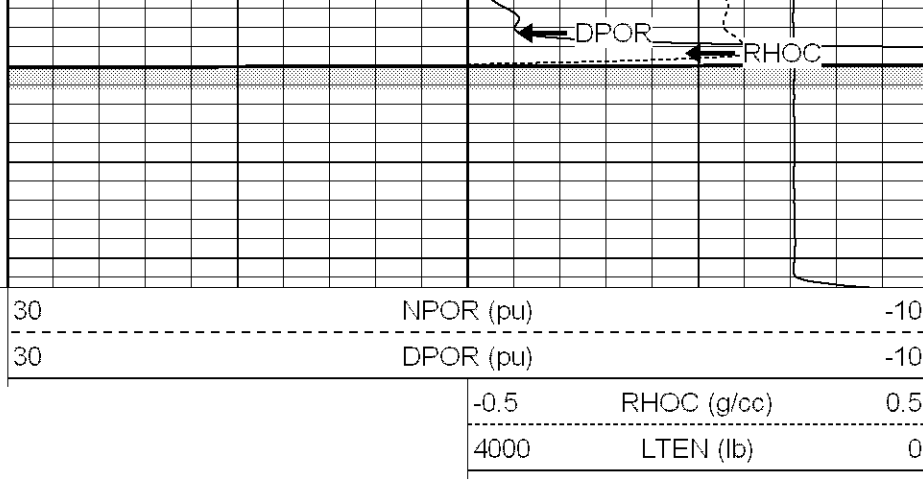
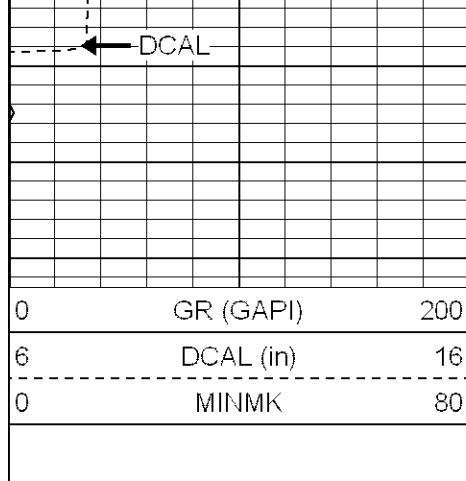
116





Top of Trinidad SS





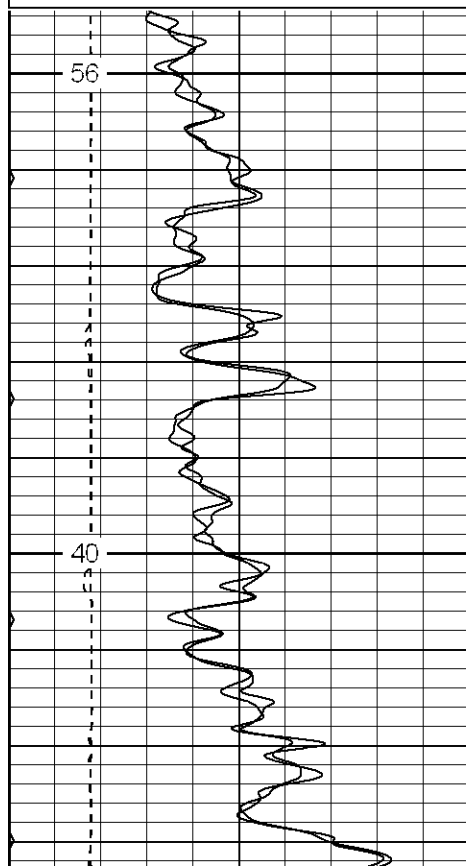
Patterson

Repeat Pass

Database File: xtoge1915.db
 Dataset Pathname: pass1.1
 Presentation Format: cdnl
 Dataset Creation: Sun Mar 12 13:57:18 2006 by Calc Warrior 7.0 STD Ope
 Charted by: Depth in Feet scaled 1:240

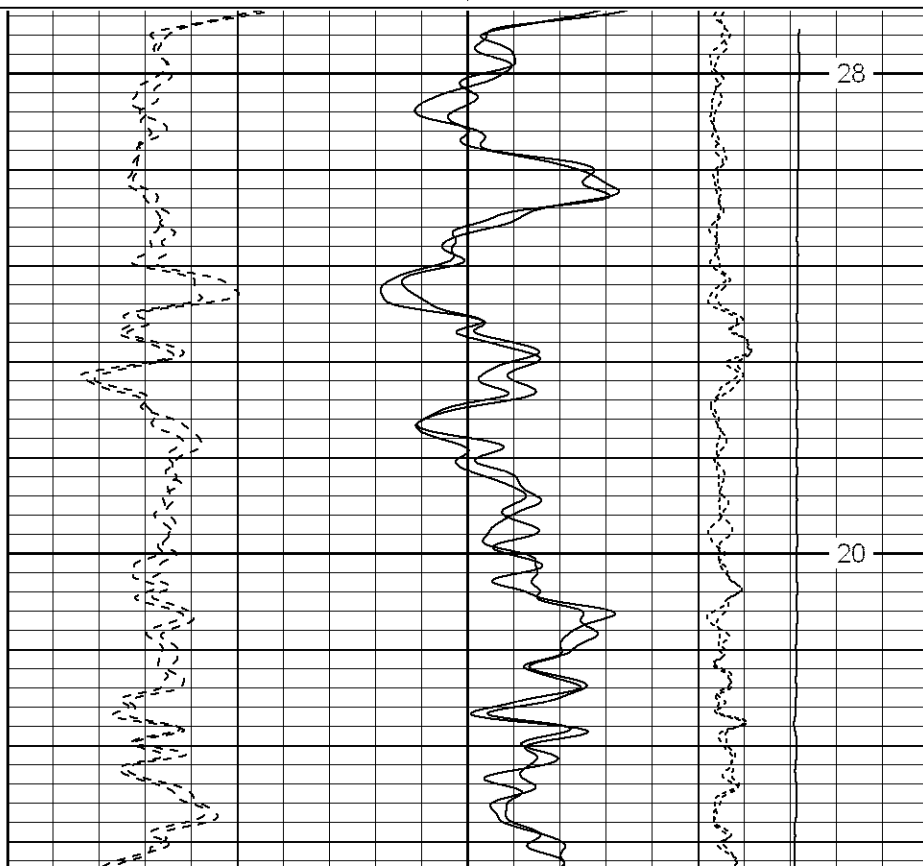
0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16

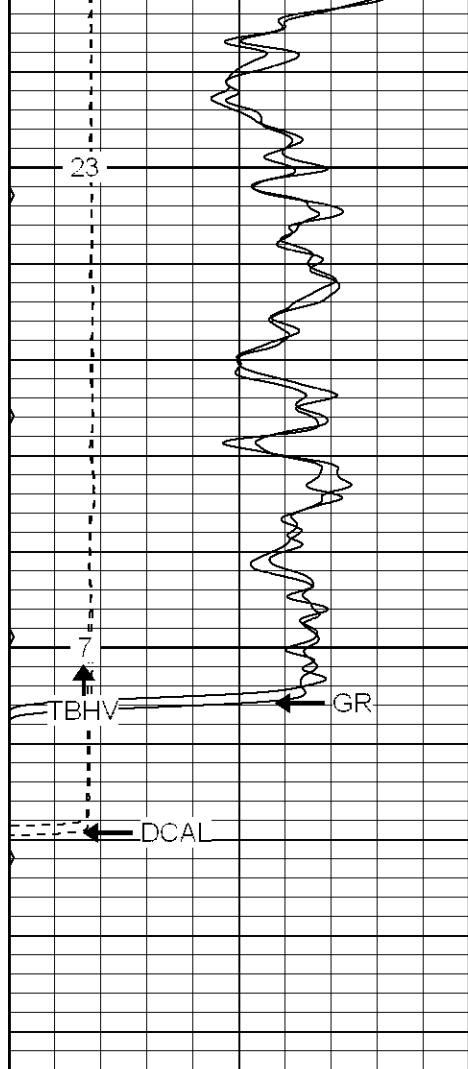
30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5



1750

1800

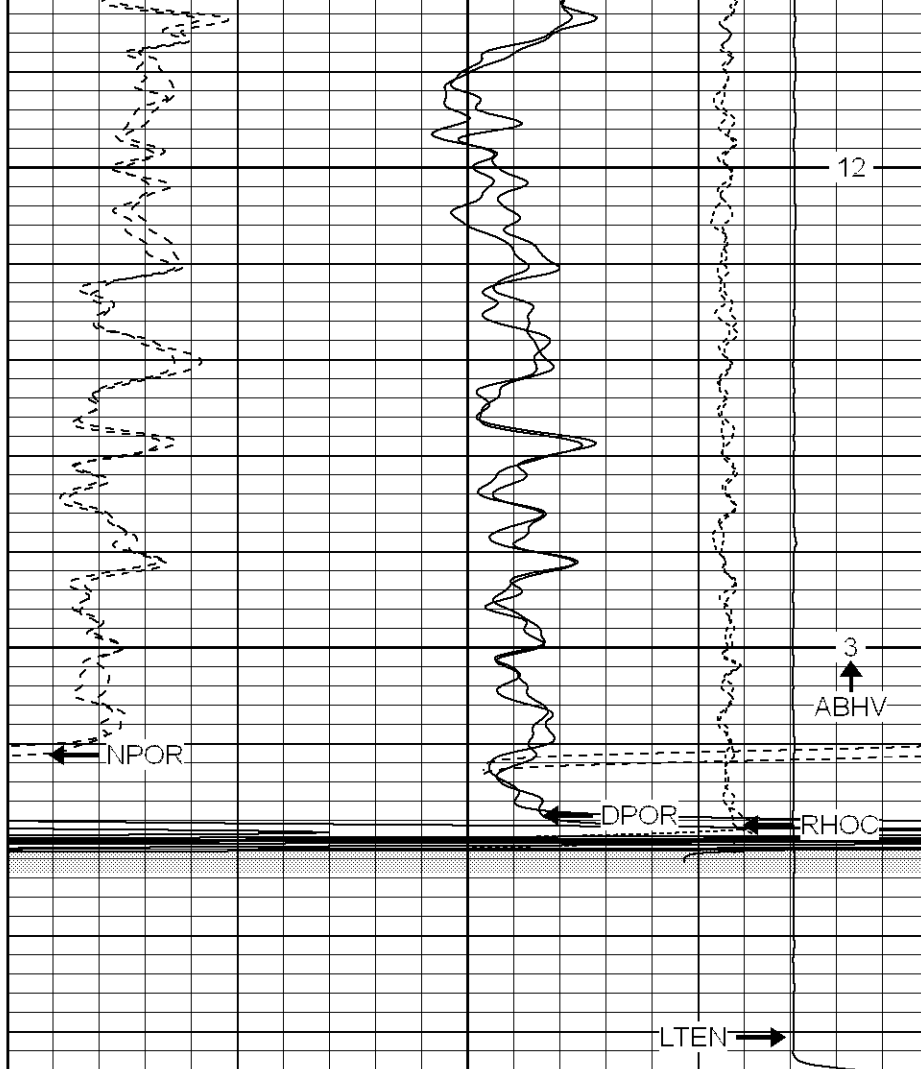




0	GR (GAPI)	200
6	DCAL (in)	16
<hr/>		
0	MINMK	80
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16

1850

1900



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

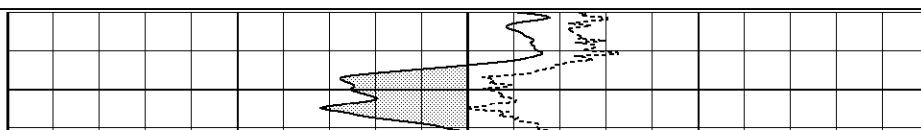
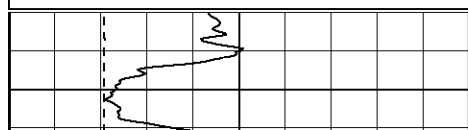
Patterson

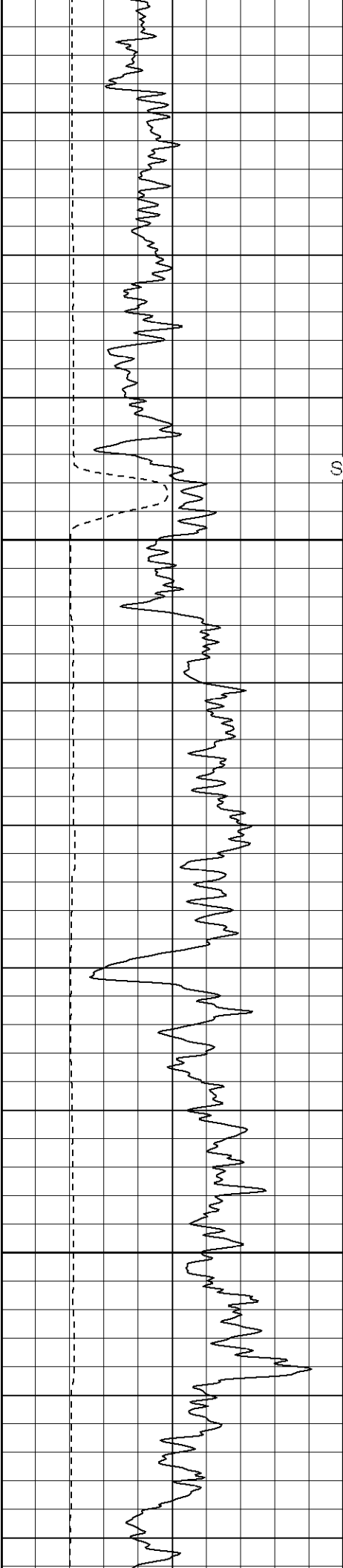
High Resolution Pass

Database File: xtoge1915.db
 Dataset Pathname: pass2.2
 Presentation Format: cdlhr
 Dataset Creation: Mon Mar 13 10:27:20 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

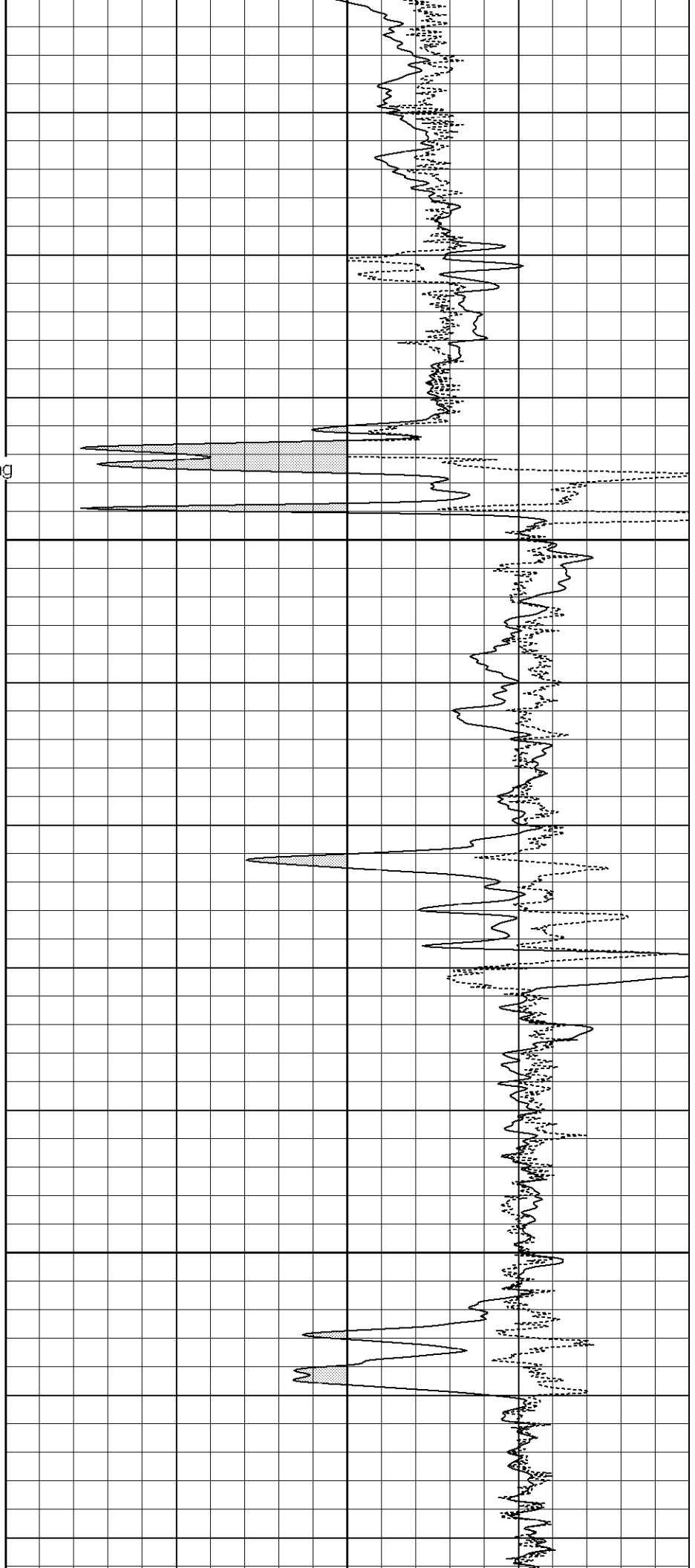


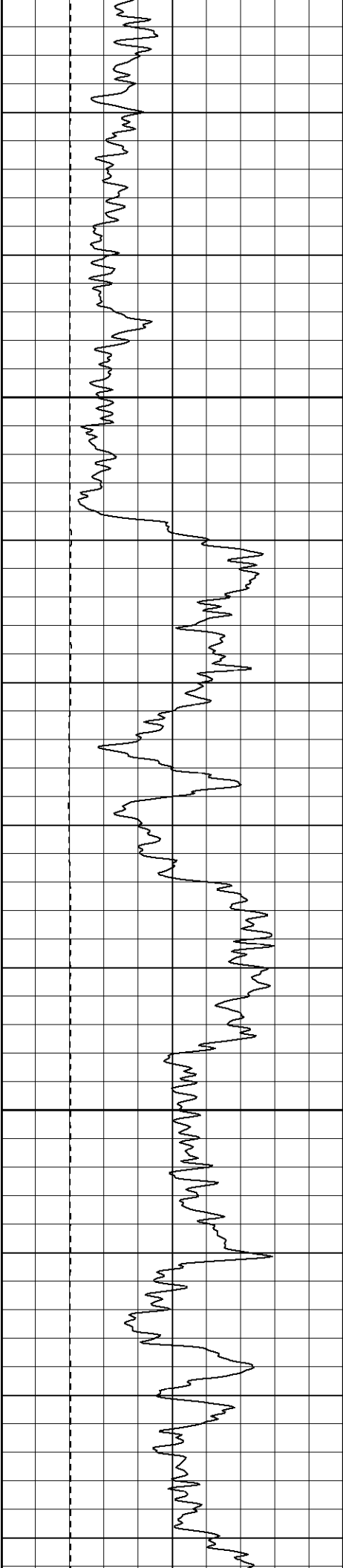


Surface Casing

500

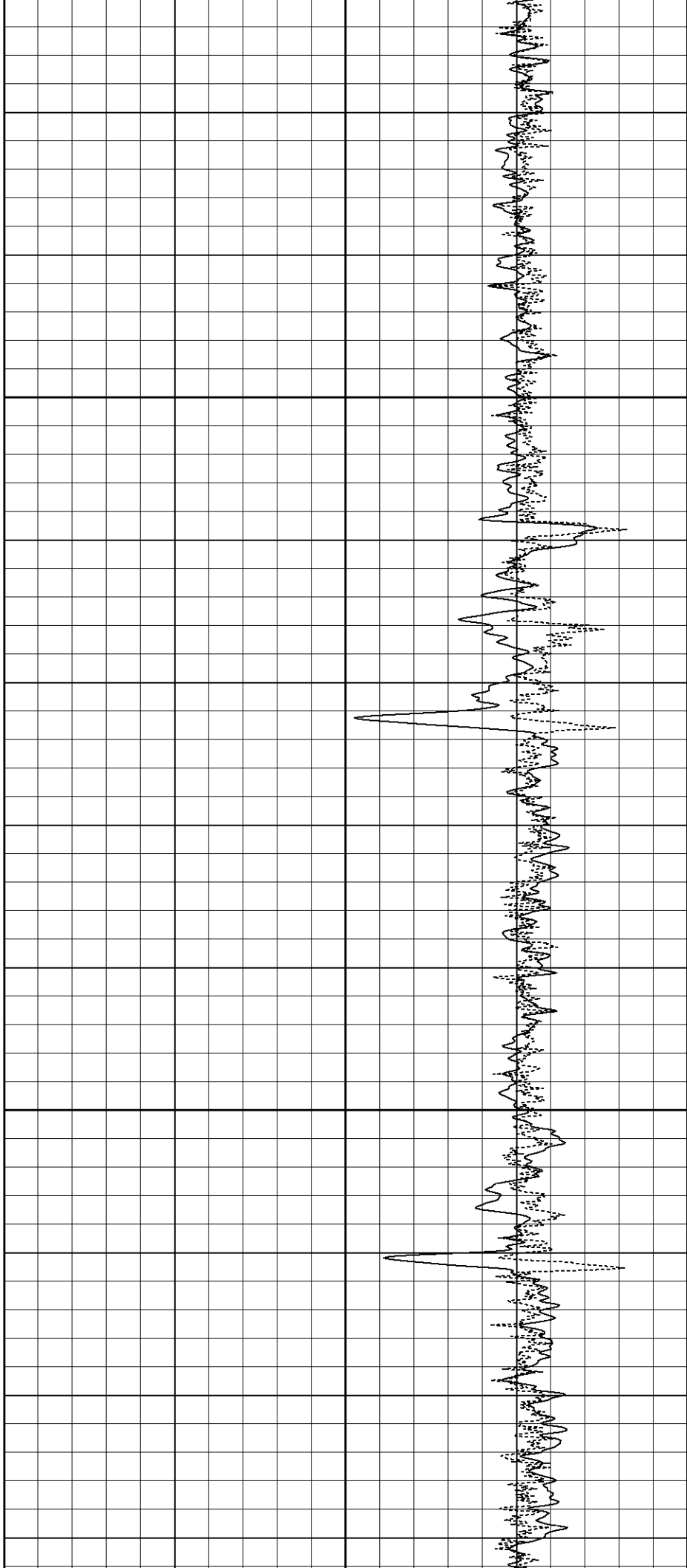
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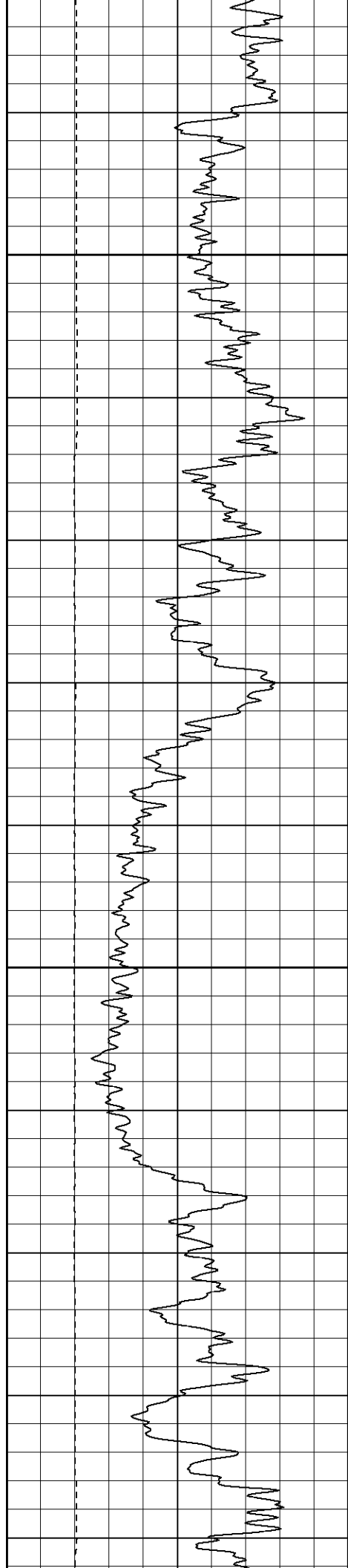




600

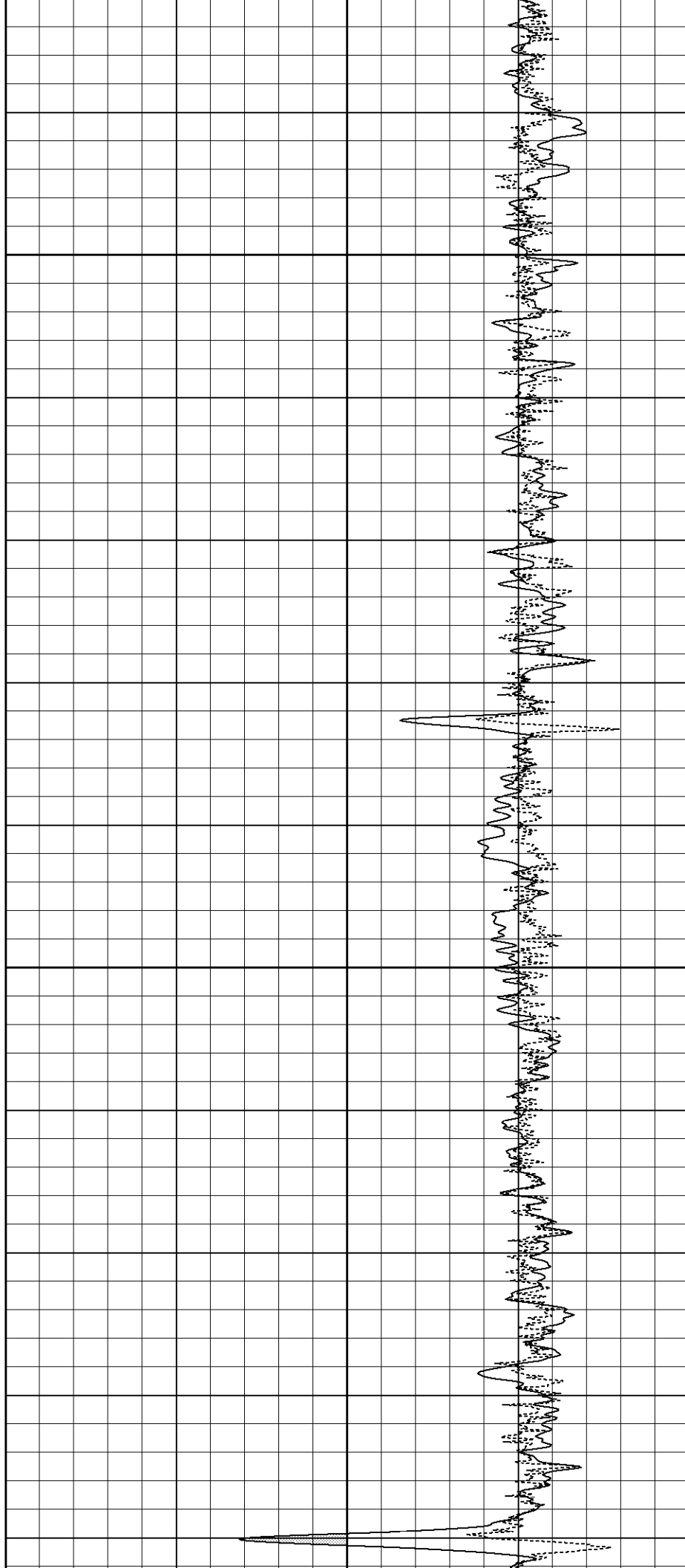
650

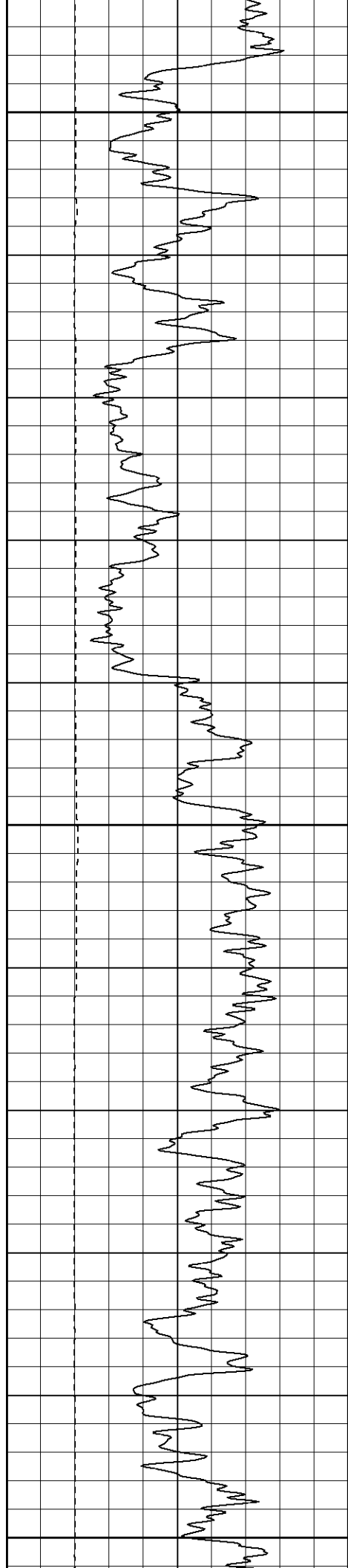




700

750

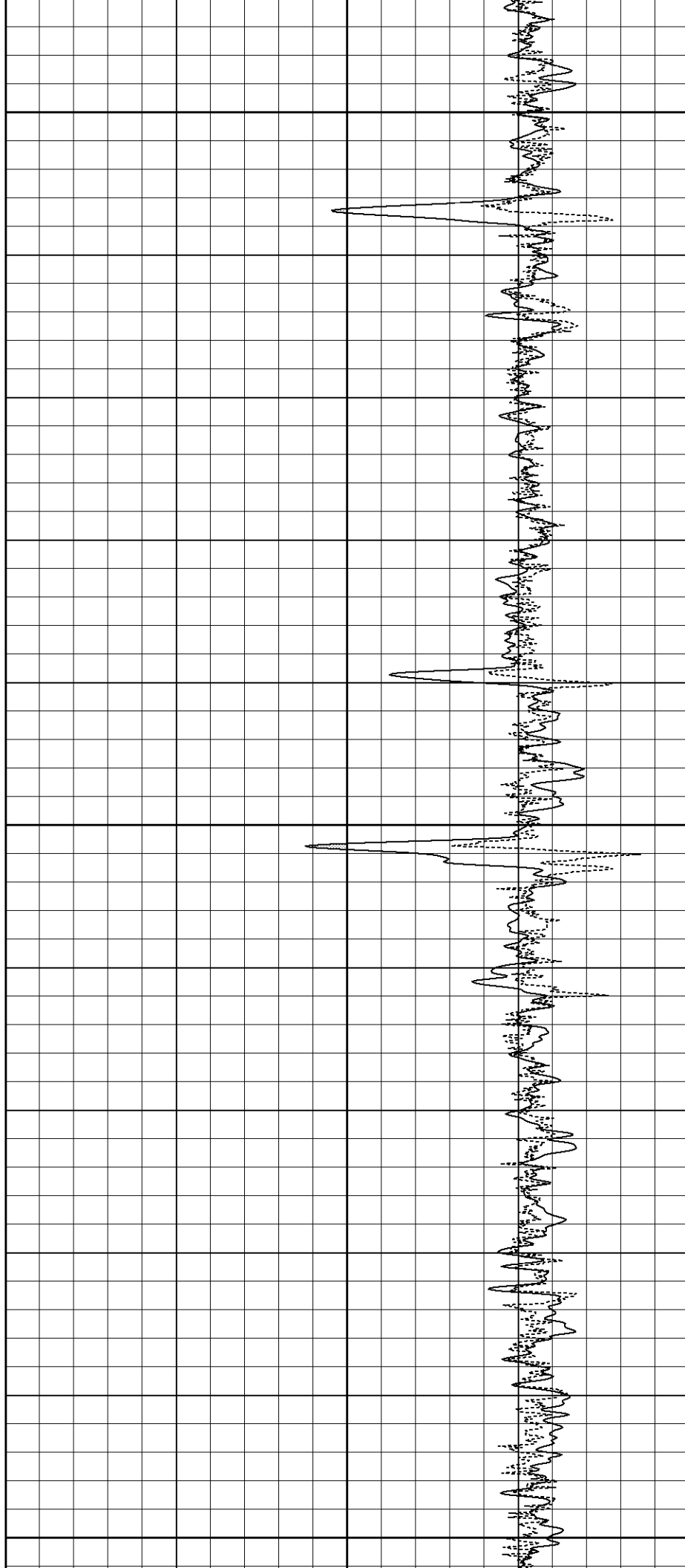


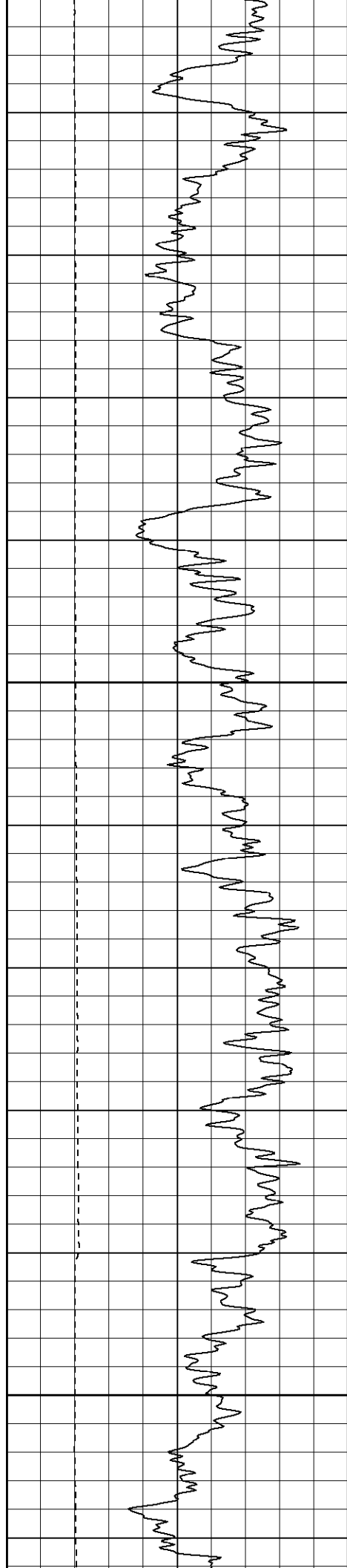


800

850

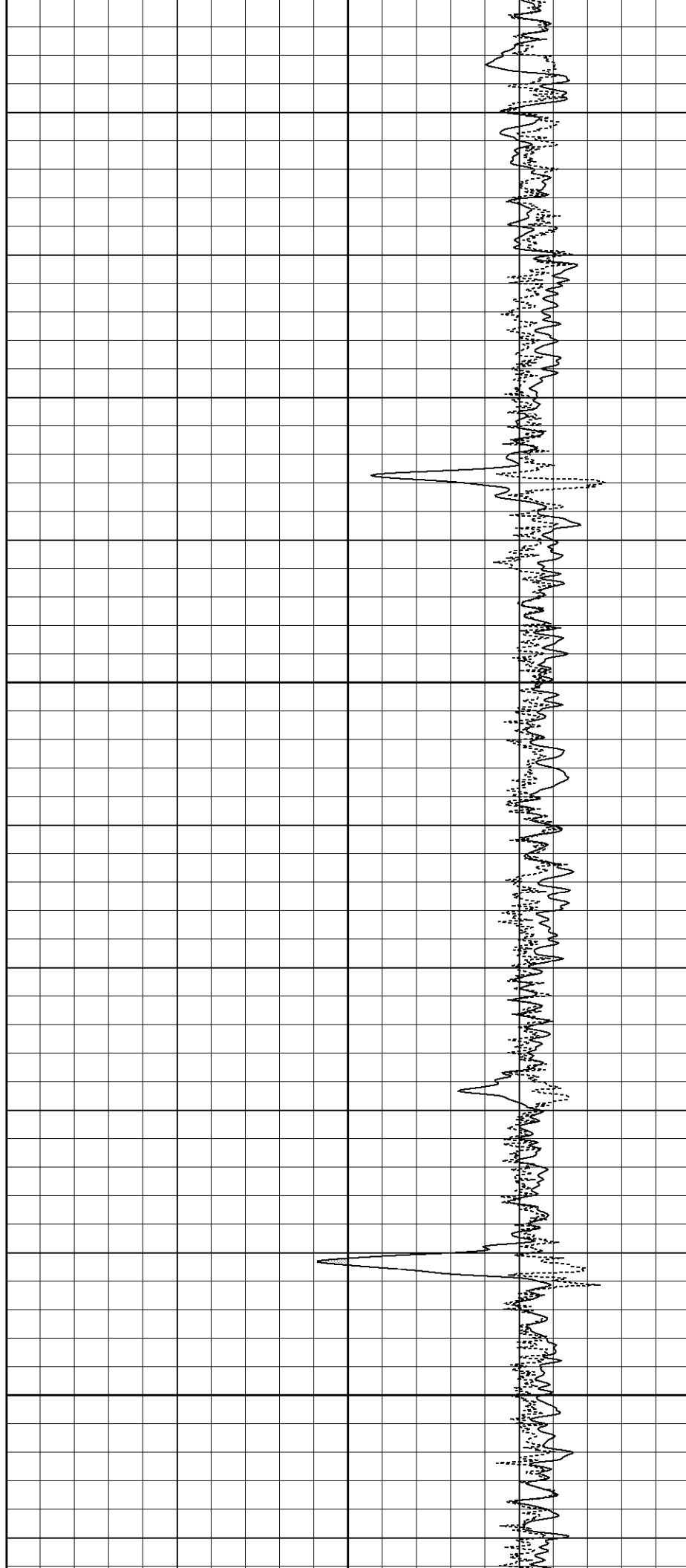
900

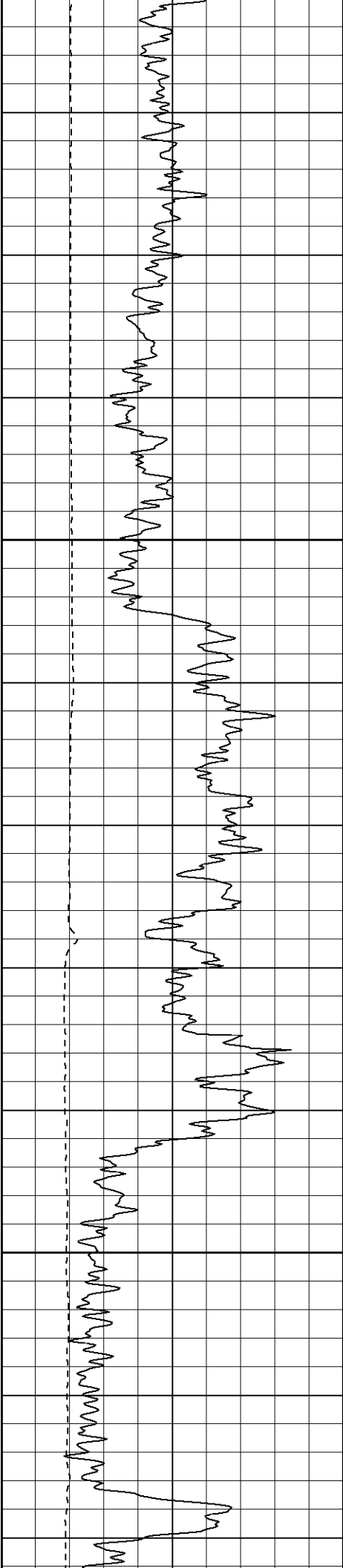




950

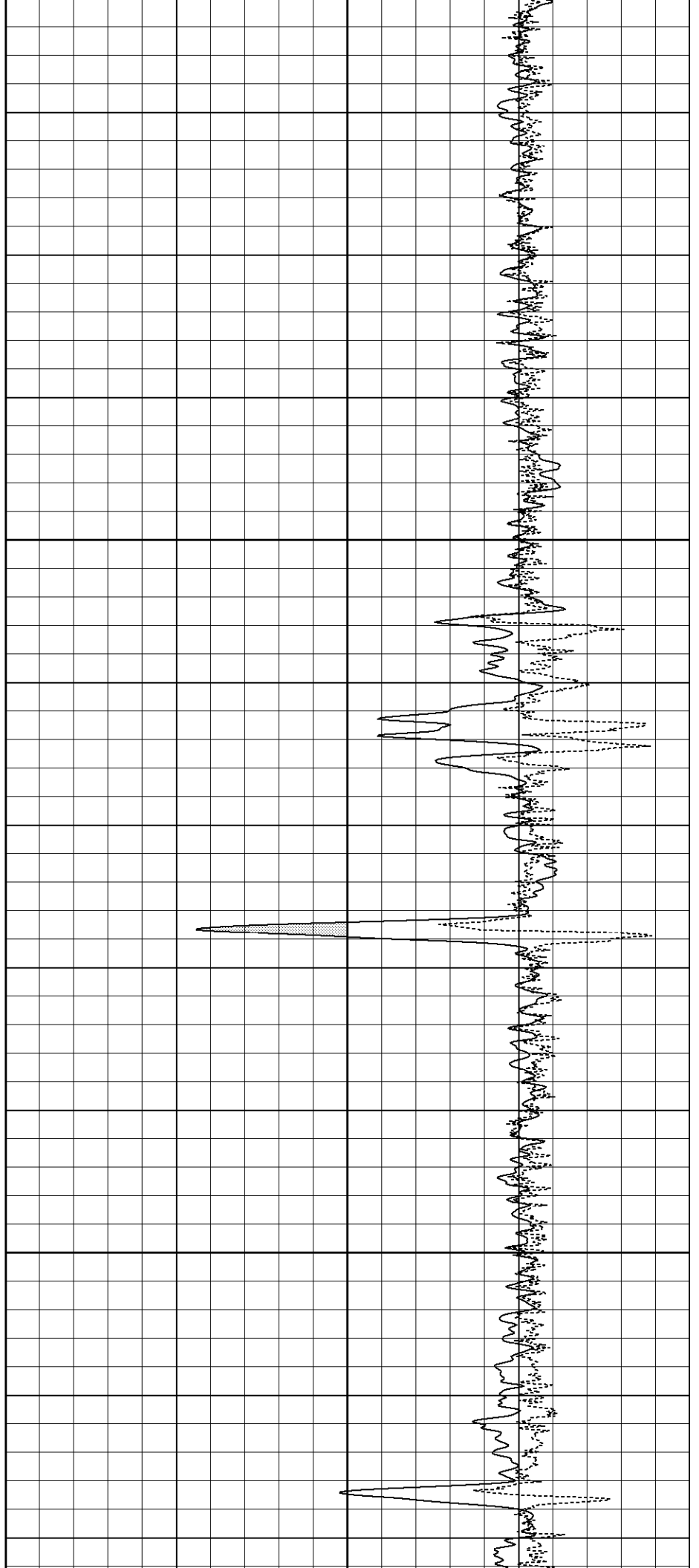
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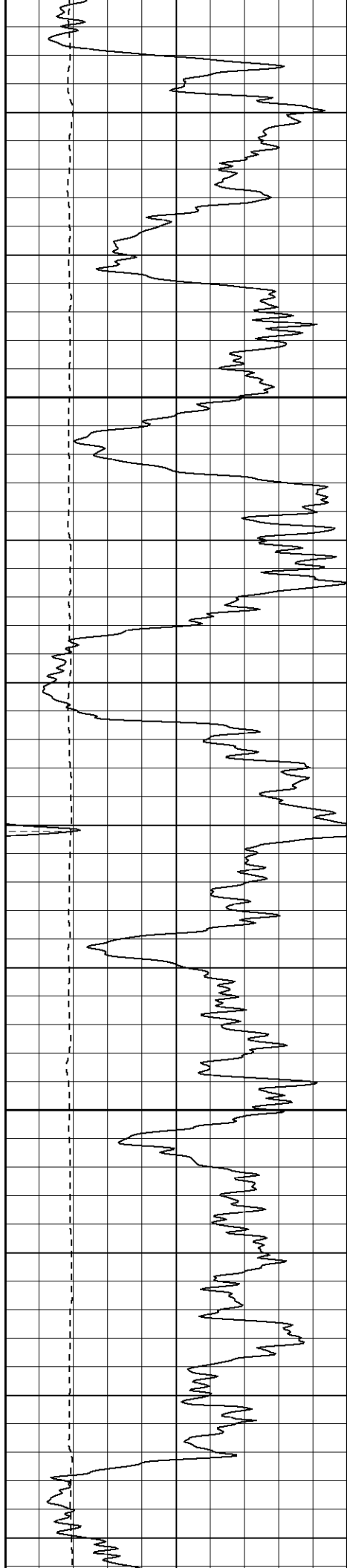




1050

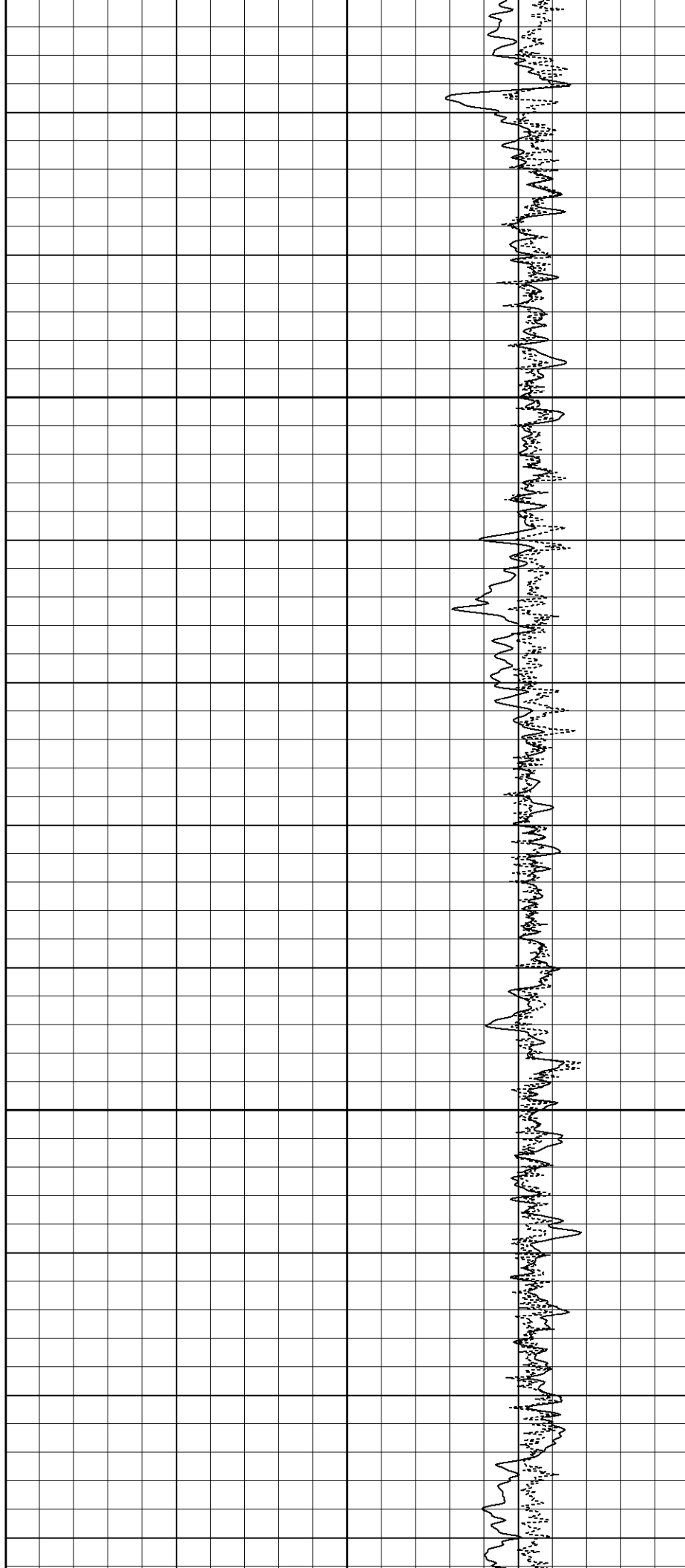
1100

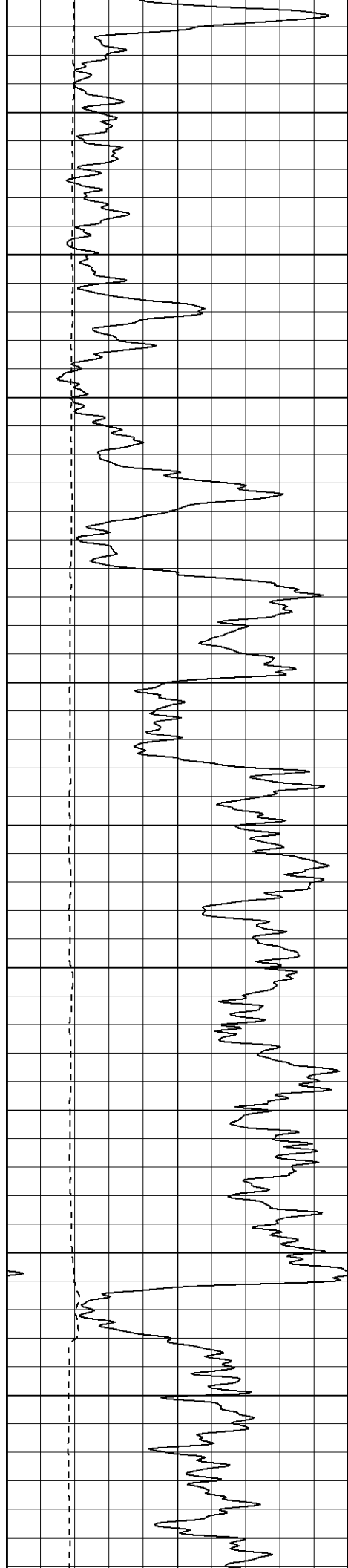




1150

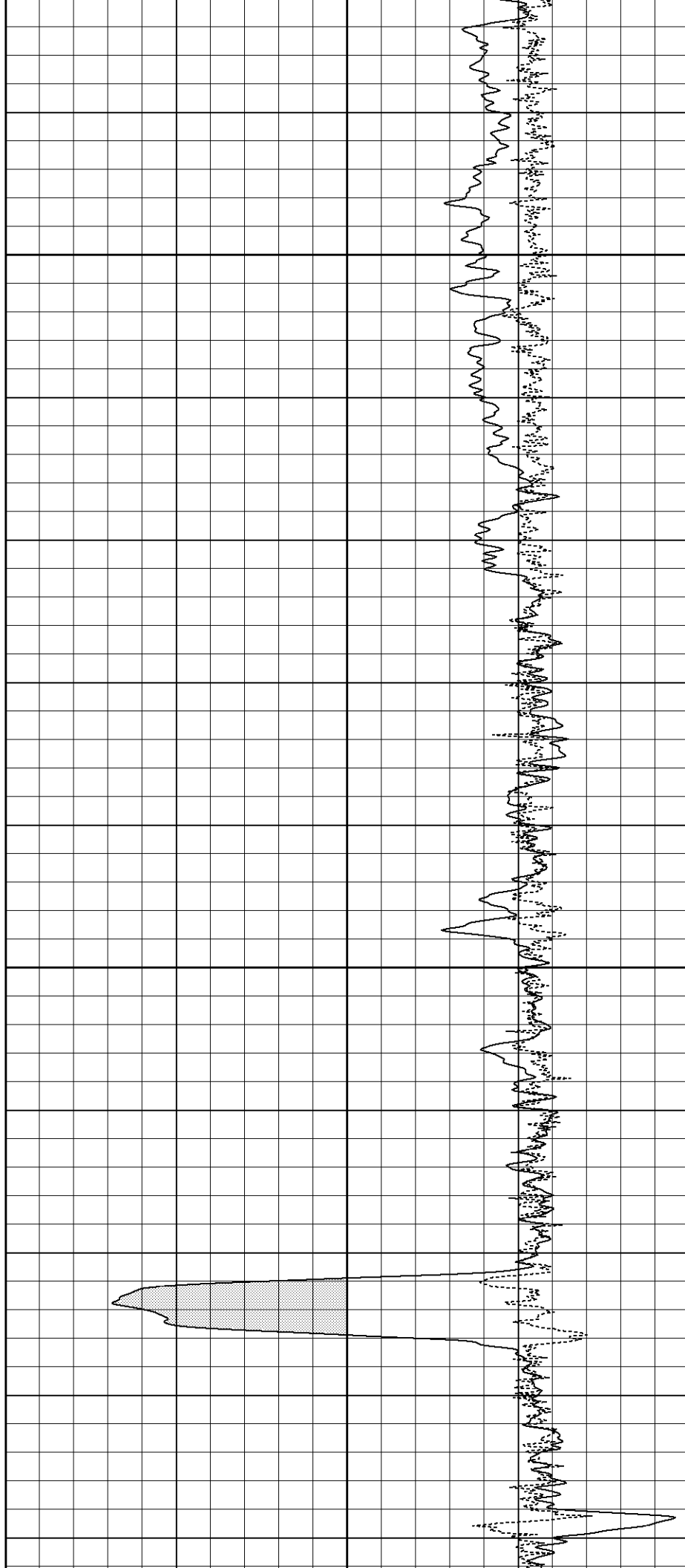
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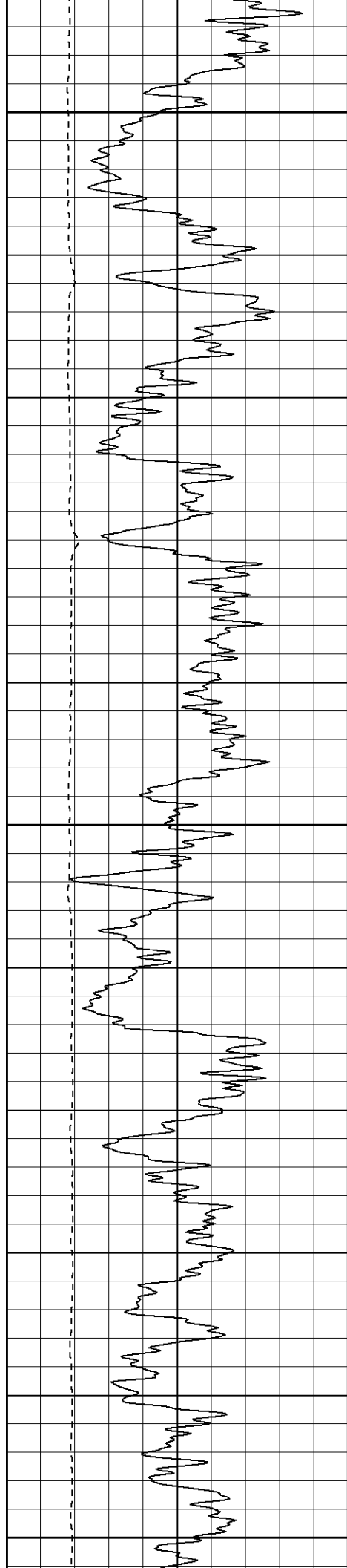




1250

1300

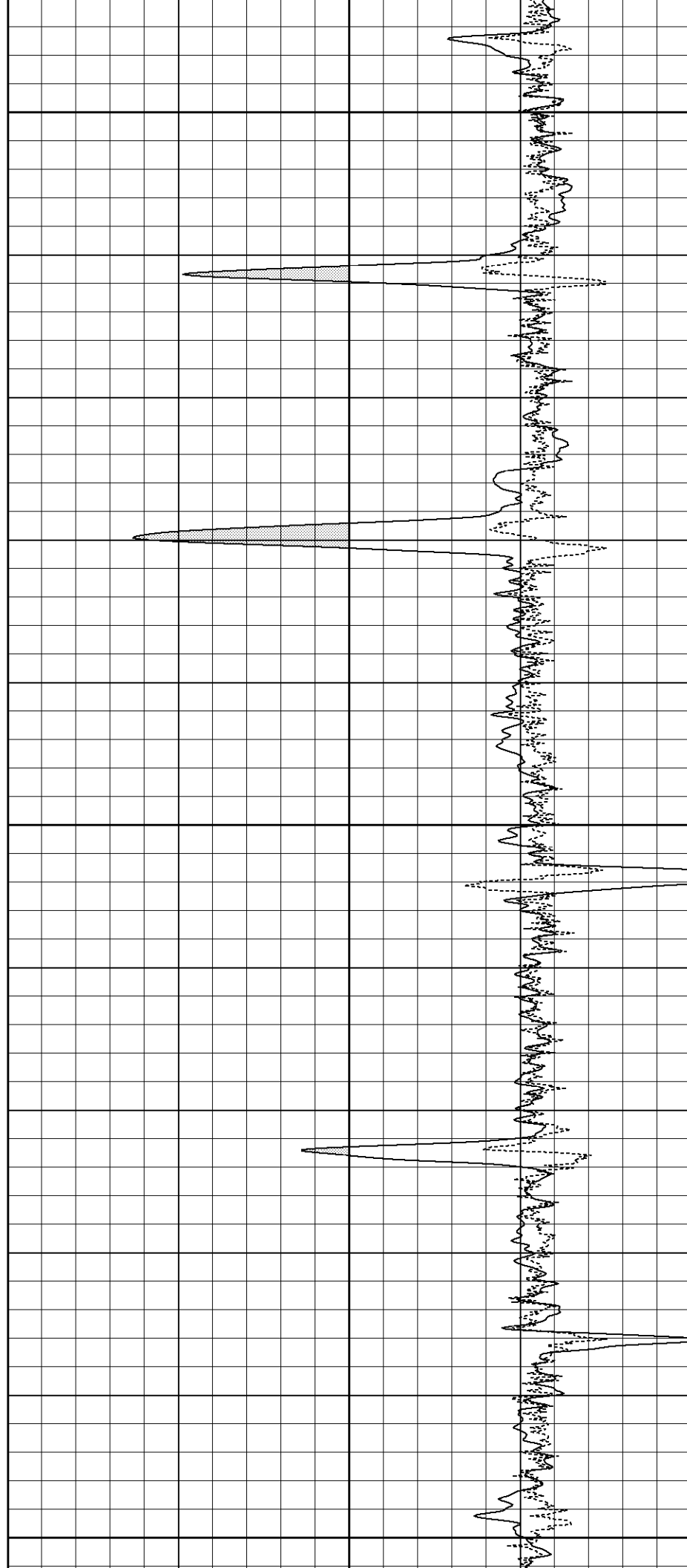


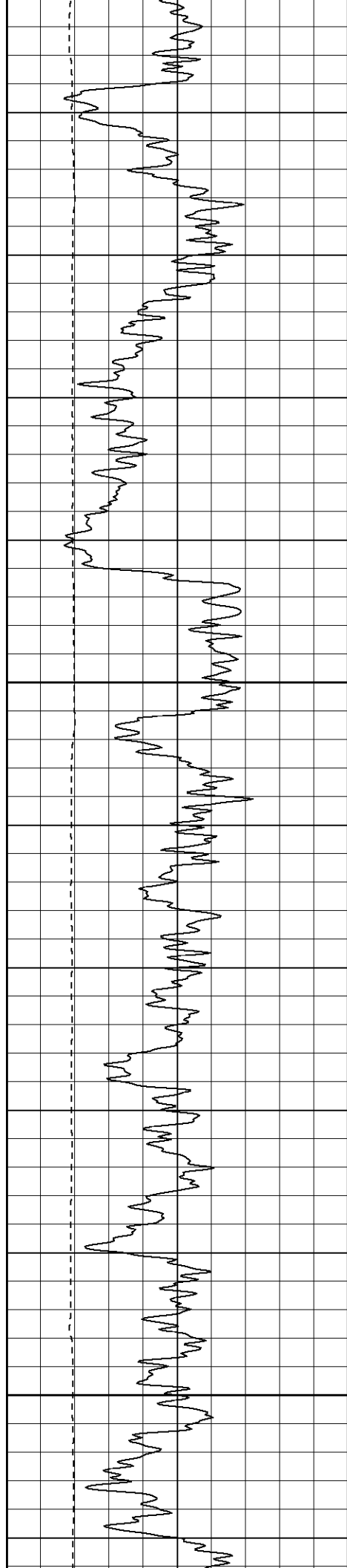


1350

1400

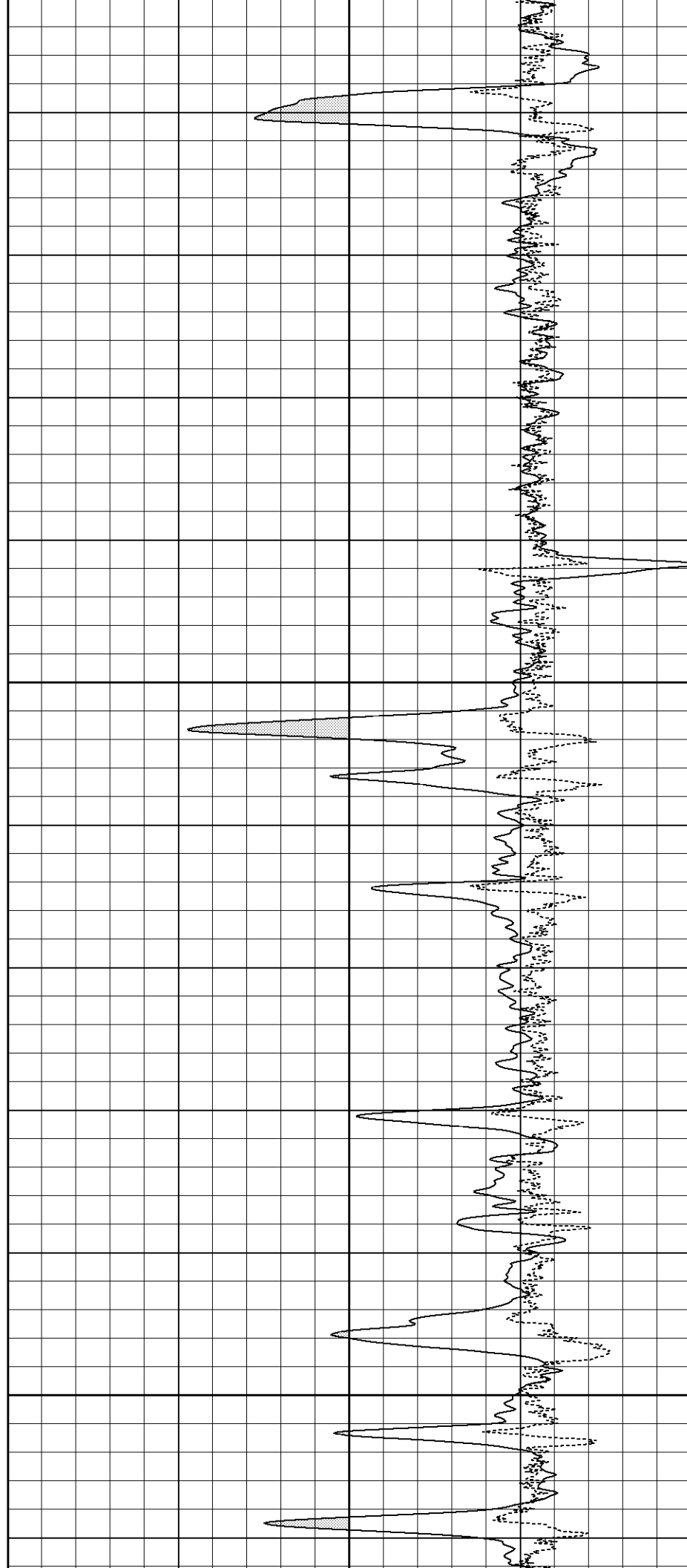
1450

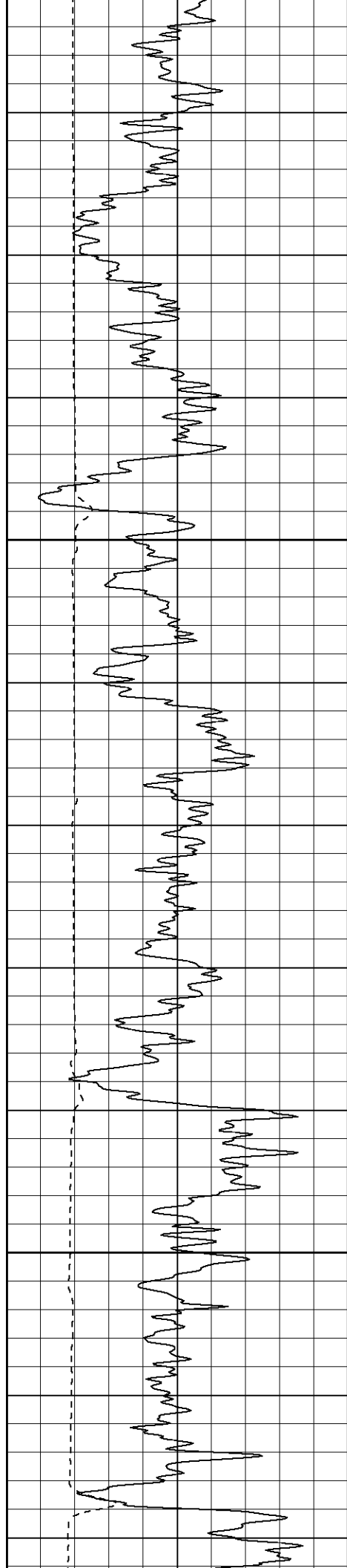




1500

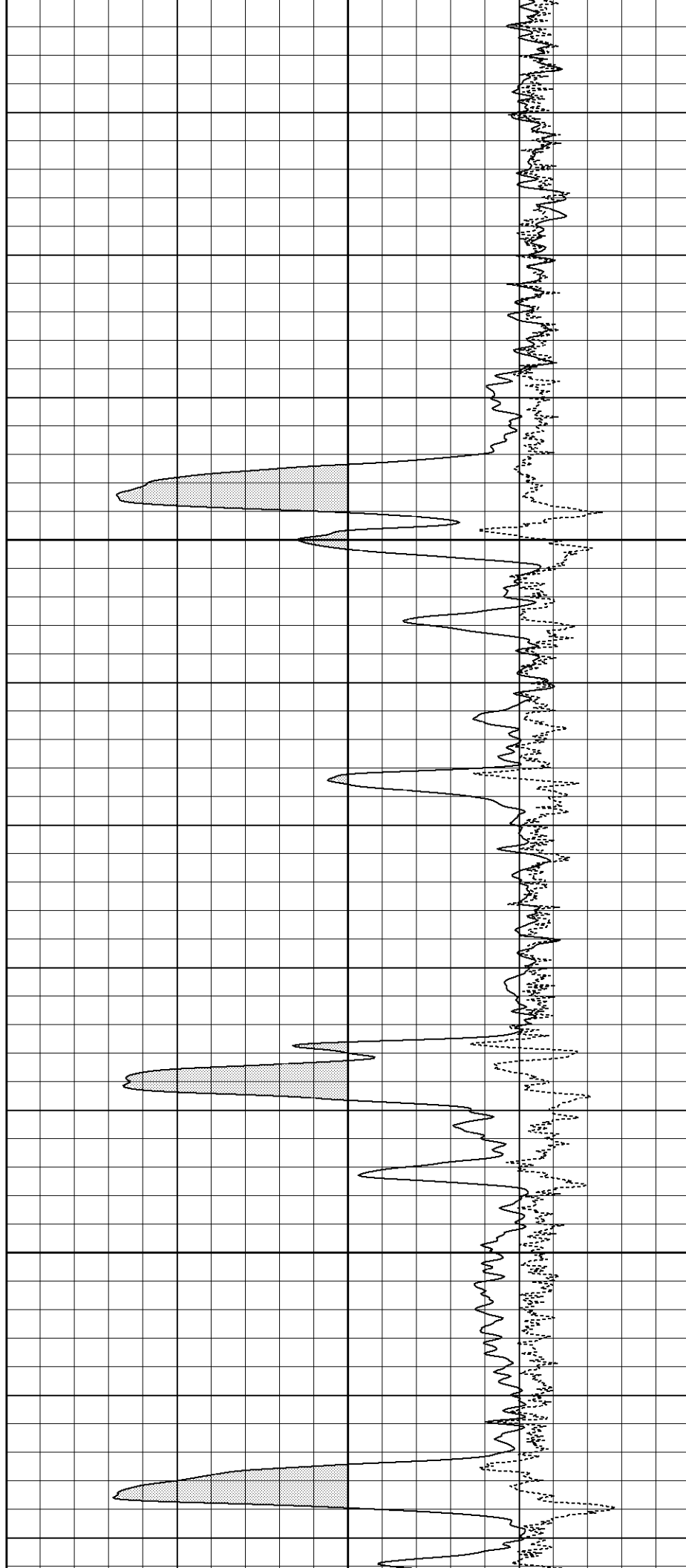
1550





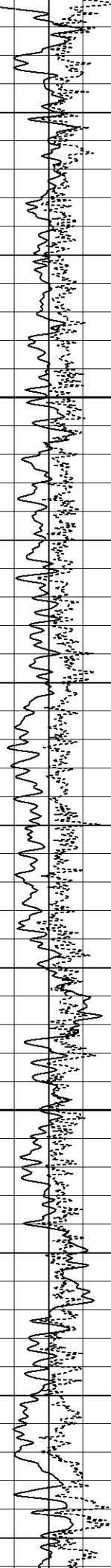
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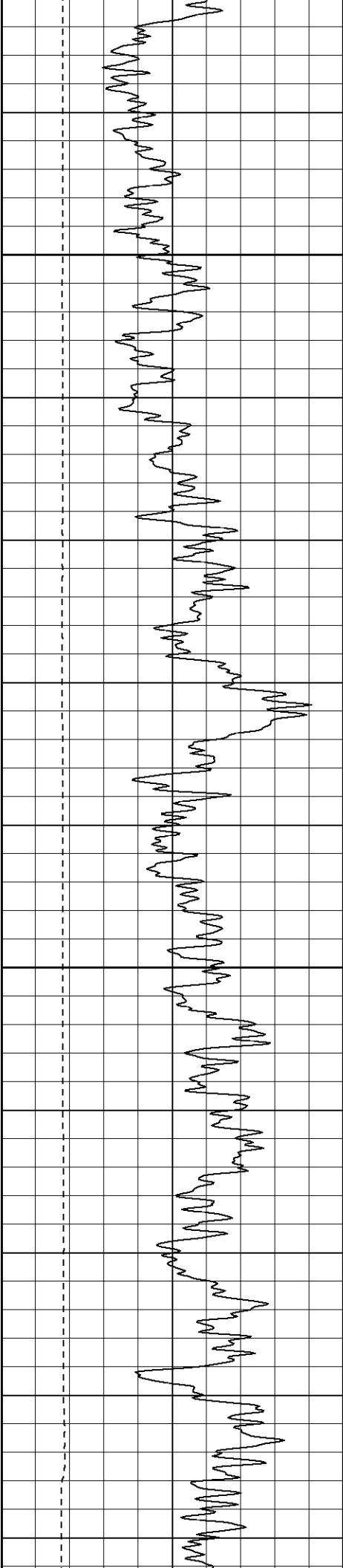
1650



1700

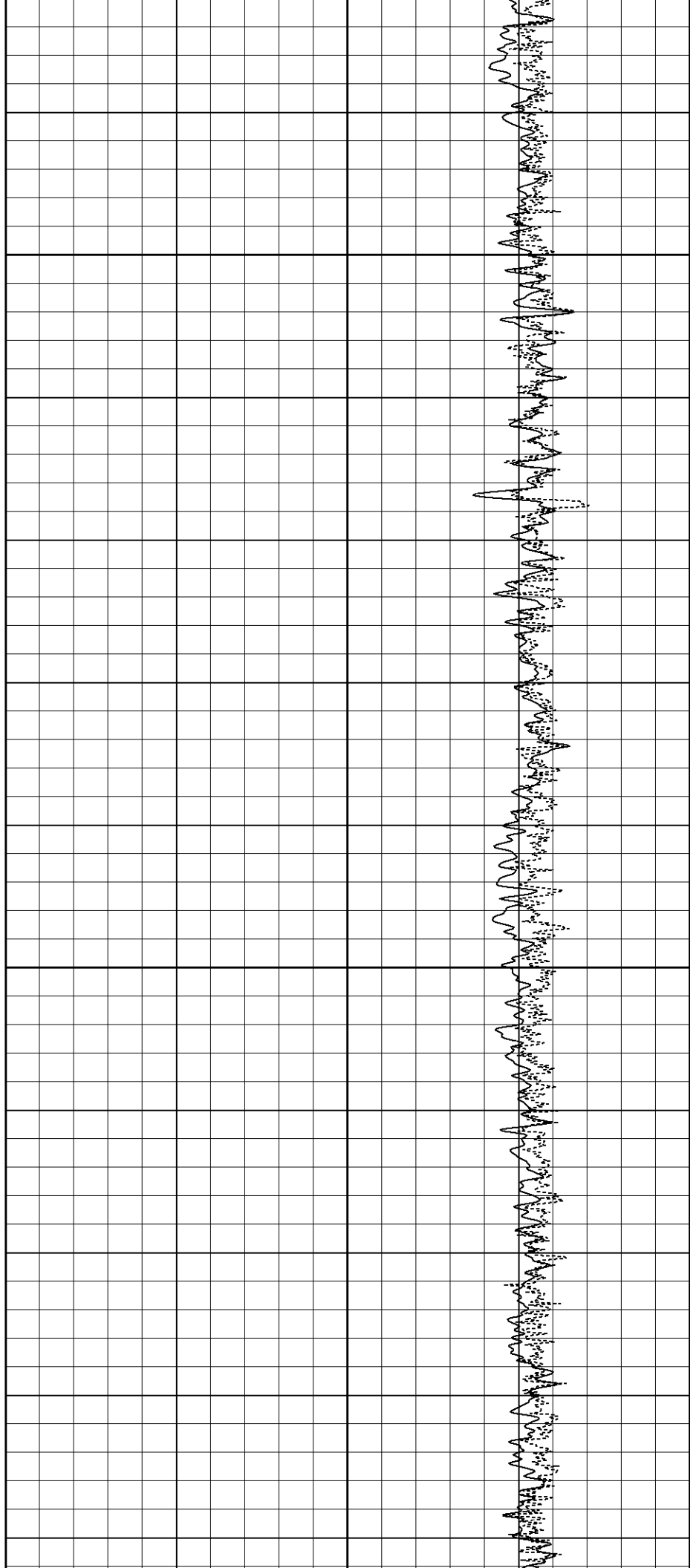
1750

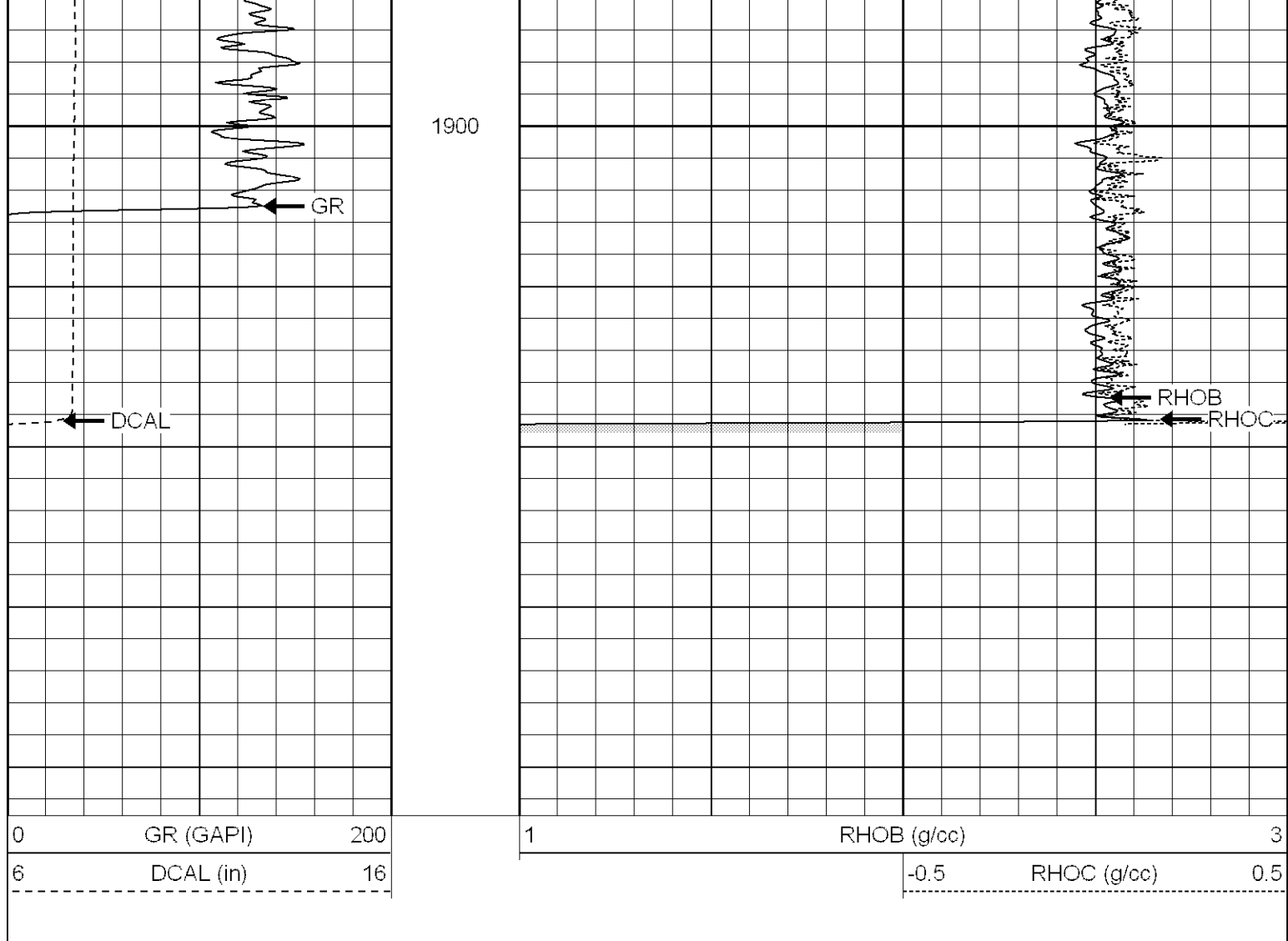




1800

1850





Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Mon Mar 06 14:14:03 2006
 Downhole Cal Performed: Wed Mar 08 20:15:55 2006

Compensated Density Calibration Report

Serial-Model: 902-2.75POH
 Source / Verifier: /
 Master Calibration Performed: Mon Mar 06 14:12:48 2006

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	937.76	456.53	cps
Aluminum	2.590	g/cc	165.85	225.46	cps

Spine Angle = 67.84

Density/Spine Ratio = 0.470

	Size		Reading	
Small Ring	8.55	in	2.31	V
Large Ring	17.00	in	4.47	V

Neutron Calibration Report

Serial Number: 802

Serial Number: 802
 Tool Model: 2.75POH
 Performed: Fri Mar 10 09:45:35 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: Tue Feb 28 13:45:51 2006

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.8000 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	39.37		None	0.75	1.50	5.00
GR	37.64		GR-2.75POH (804) Probe	3.73	2.75	43.00
NEU	32.10		NEU-2.75POH (802) Probe Epithermal	4.75	2.75	58.00
LSD	24.47		CDL-2.75POH (902) Probe	8.43	2.75	106.00
DCAL	24.19					
SSD	23.95					
10pin	21.72		Probe	0.89	3.50	20.00
CILD	10.60					
SP	10.60		DIL-G (5375) Gearhart	20.83	4.00	345.00
CILM	6.89					

RLL3	1.70					
Dataset: /field/well/run1/_plots/_jobs/_d Total Length: 39.37 ft Total Weight: 577.00 lb O.D. 4.00 in						