

**Patterson**

**COMPENSATED DENSITY  
NEUTRON  
LOG**

Company XTO Energy Inc.		Company XTO Energy Inc.	
Well Golden Eagle 19-06		Well Golden Eagle 19-06	
Field Purgatoire River		Field Purgatoire River	
County Las Animas		County Las Animas	
State Colorado		State Colorado	
Location: API # : 05 071 08698 00		Other Services	
2061' FNL & 2228' FWL		dill	
SEC 19 TWP 33S RGE 67W		Elevation	
Permanent Datum	Ground Level	Elevation	7353'
Log Measured From	Ground Level	K.B. -----	
Drilling Measured From	Ground Level	D.F. -----	
		G.L. 7353'	
Date	03-02-06		
Run Number	Two		
Depth Driller	2155'		
Depth Logger	2152'		
Bottom Logged Interval	2128'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 227'		
Casing Logger	227'		
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	5:00 p.m.		
Time Logger on Bottom	7:15 p.m.		
Maximum Recorded Temperature	116		
Equipment Number	T677		
Location	Trinidad		
Recorded By	L. Smith		
Witnessed By	Mr. Dalton King		

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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.  
Up Rancho Escondido take first left, will be second location.

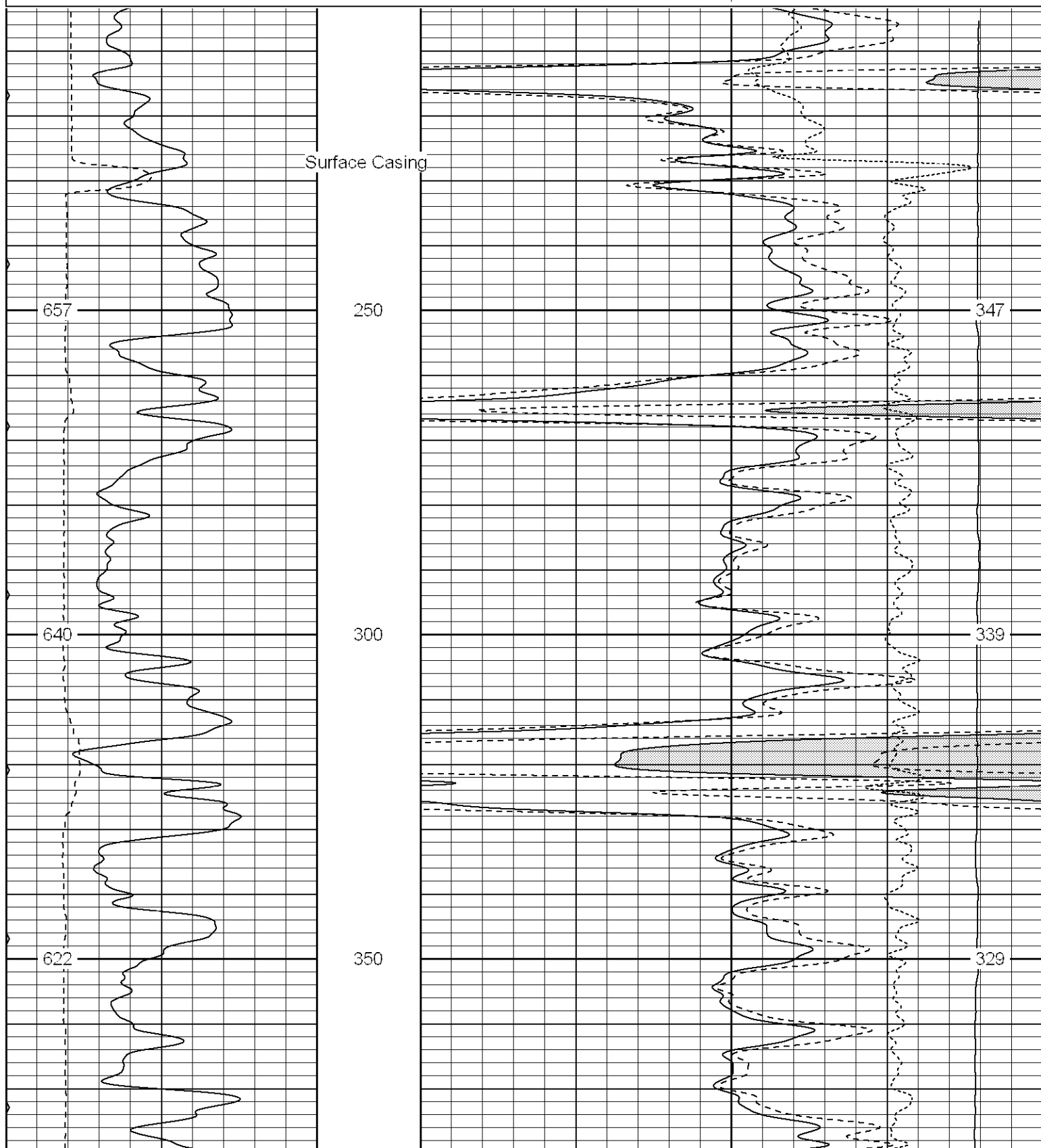
**Patterson**

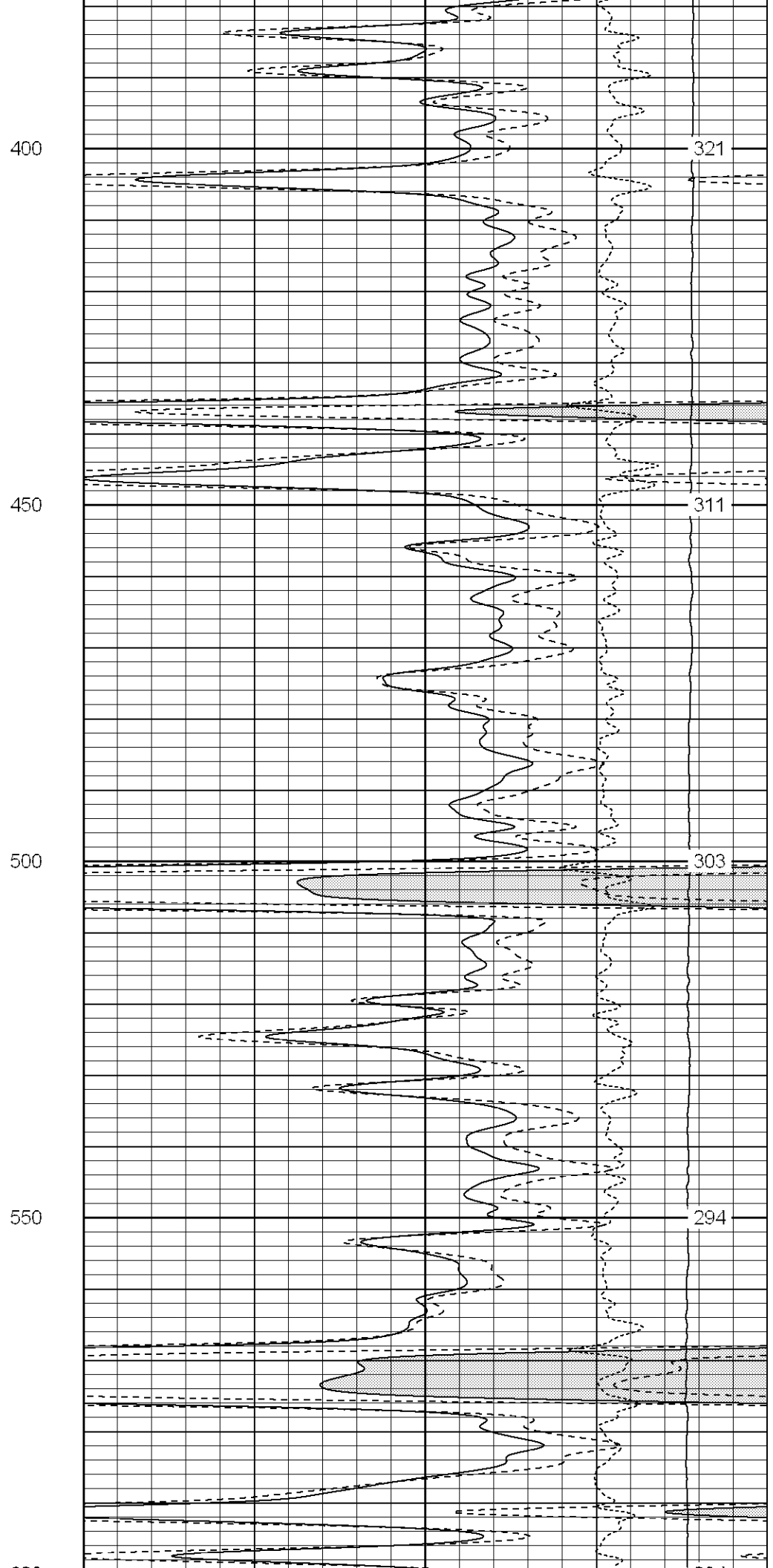
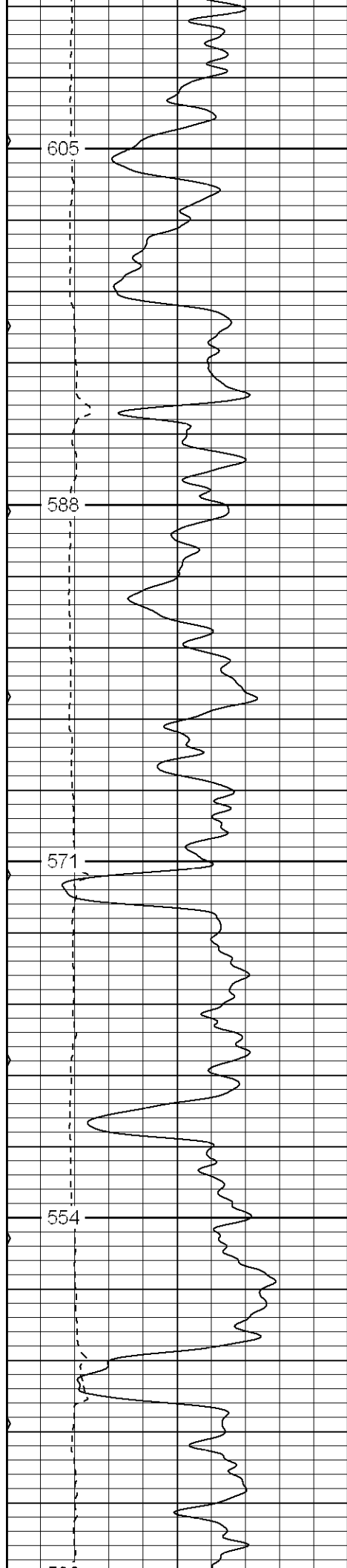
**Main Pass**

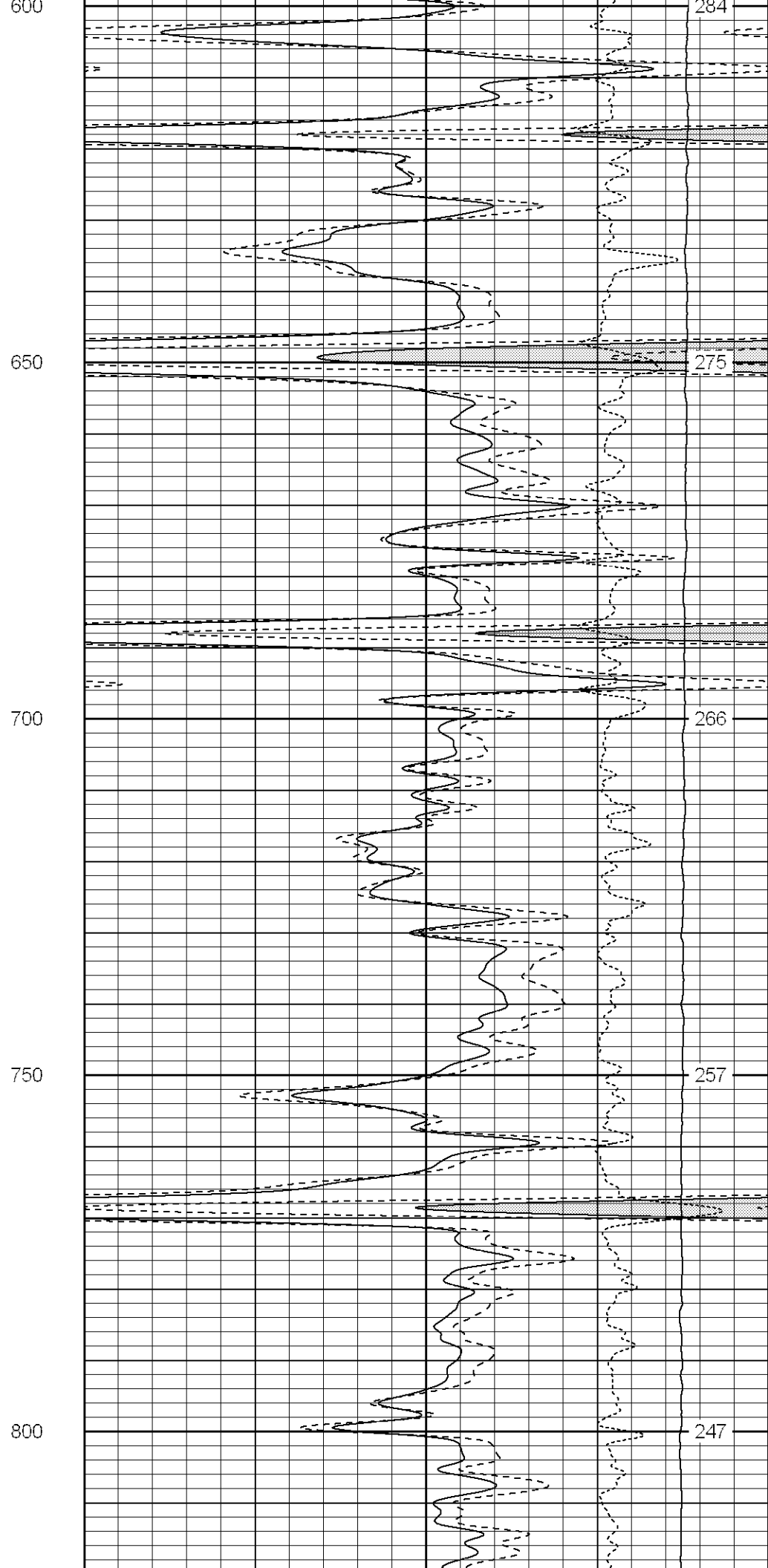
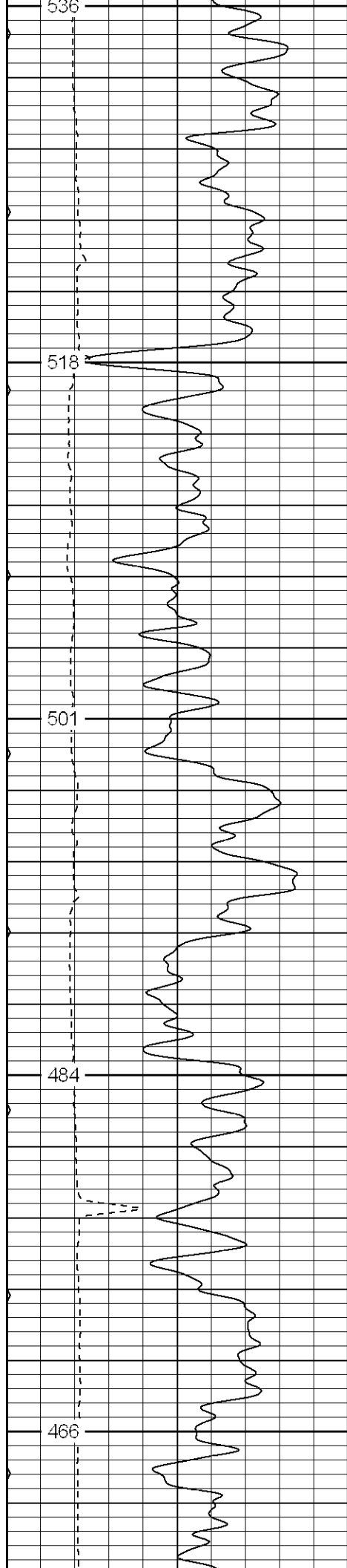
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 Dataset Pathname: pass2.1  
 Presentation Format: cdl  
 Dataset Creation: Thu Mar 02 22:13:41 2006 by Calc Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:240

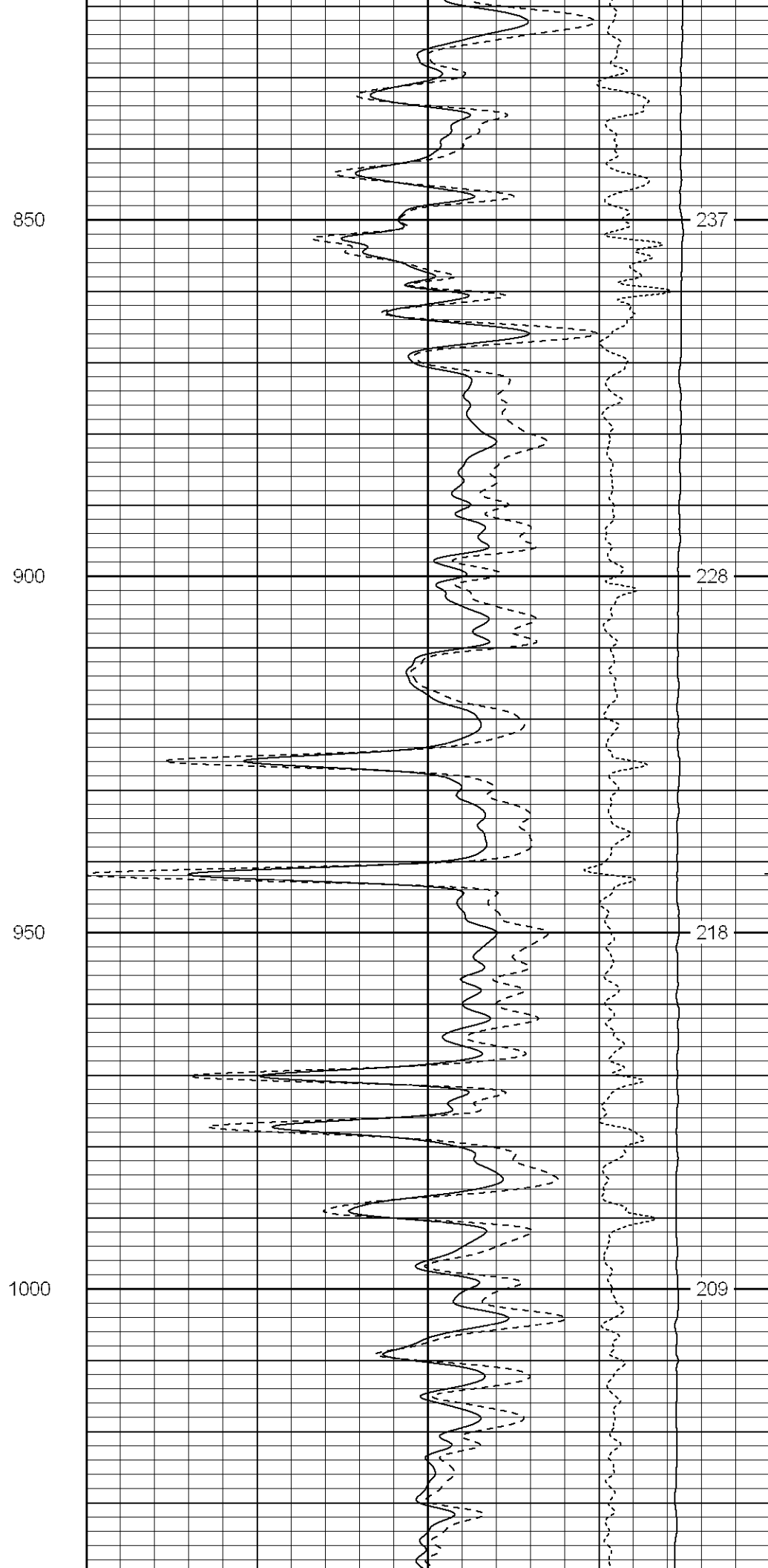
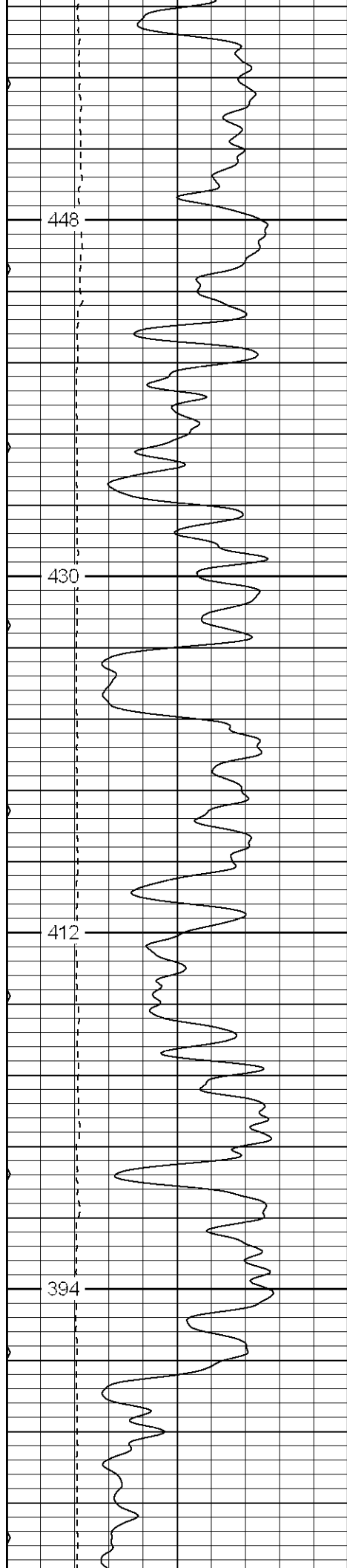
0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80

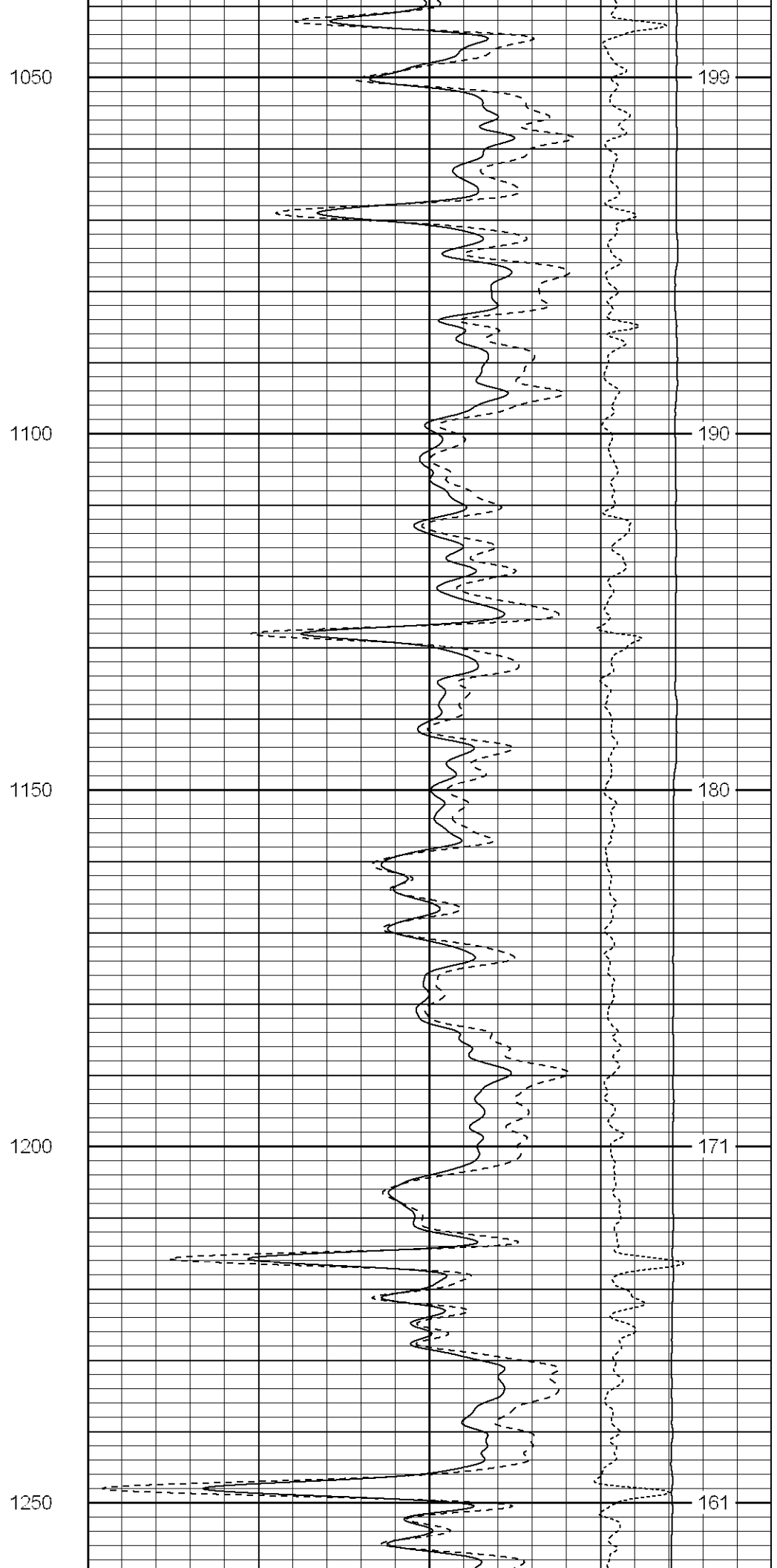
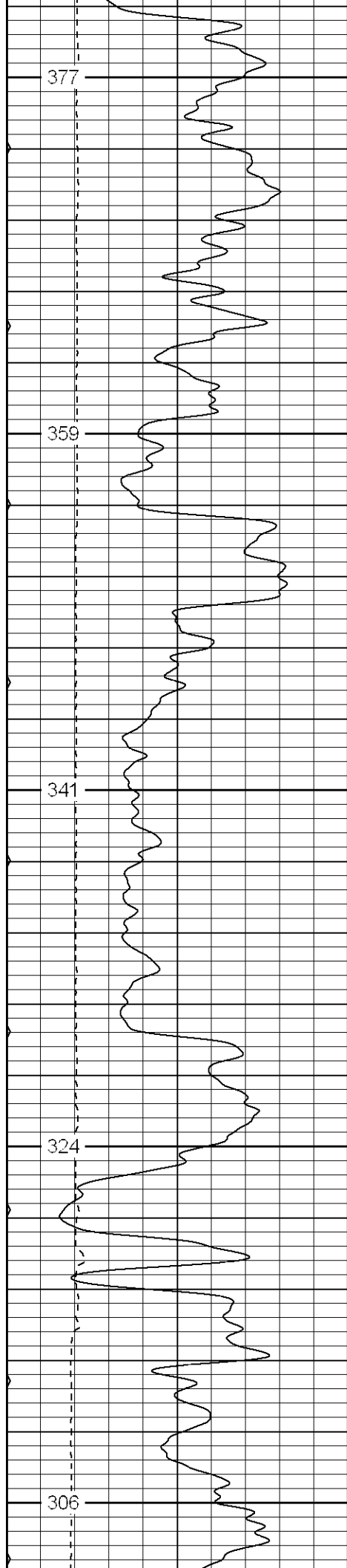
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

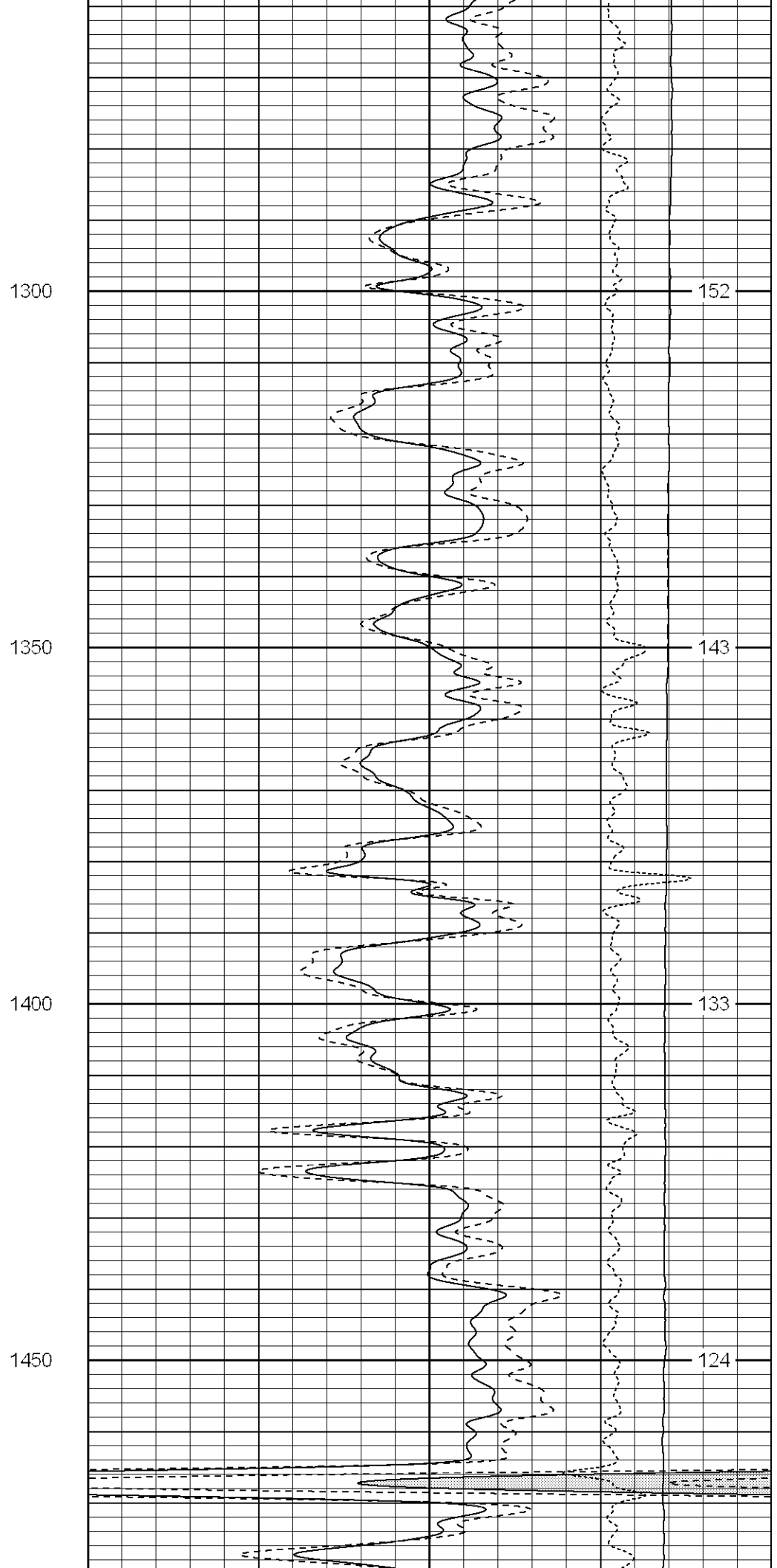
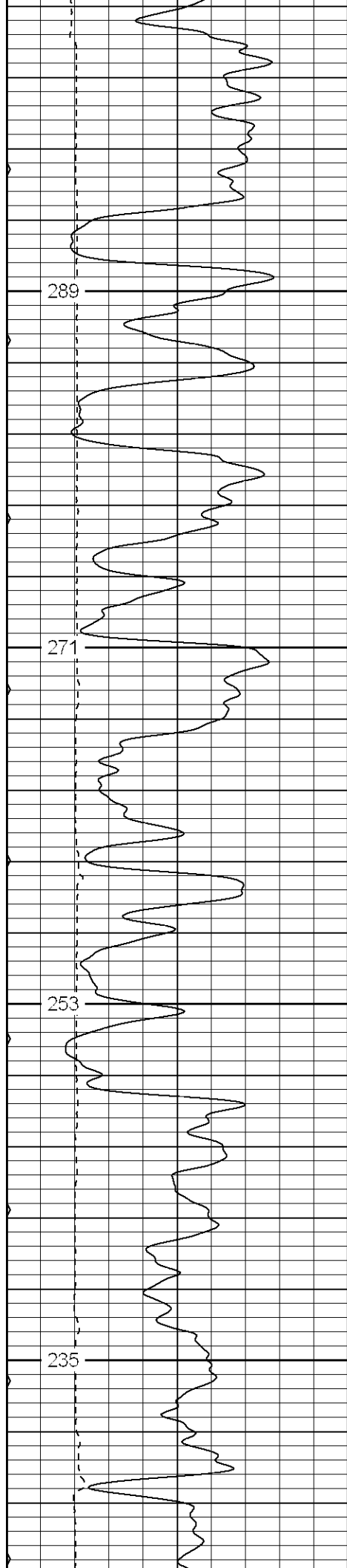


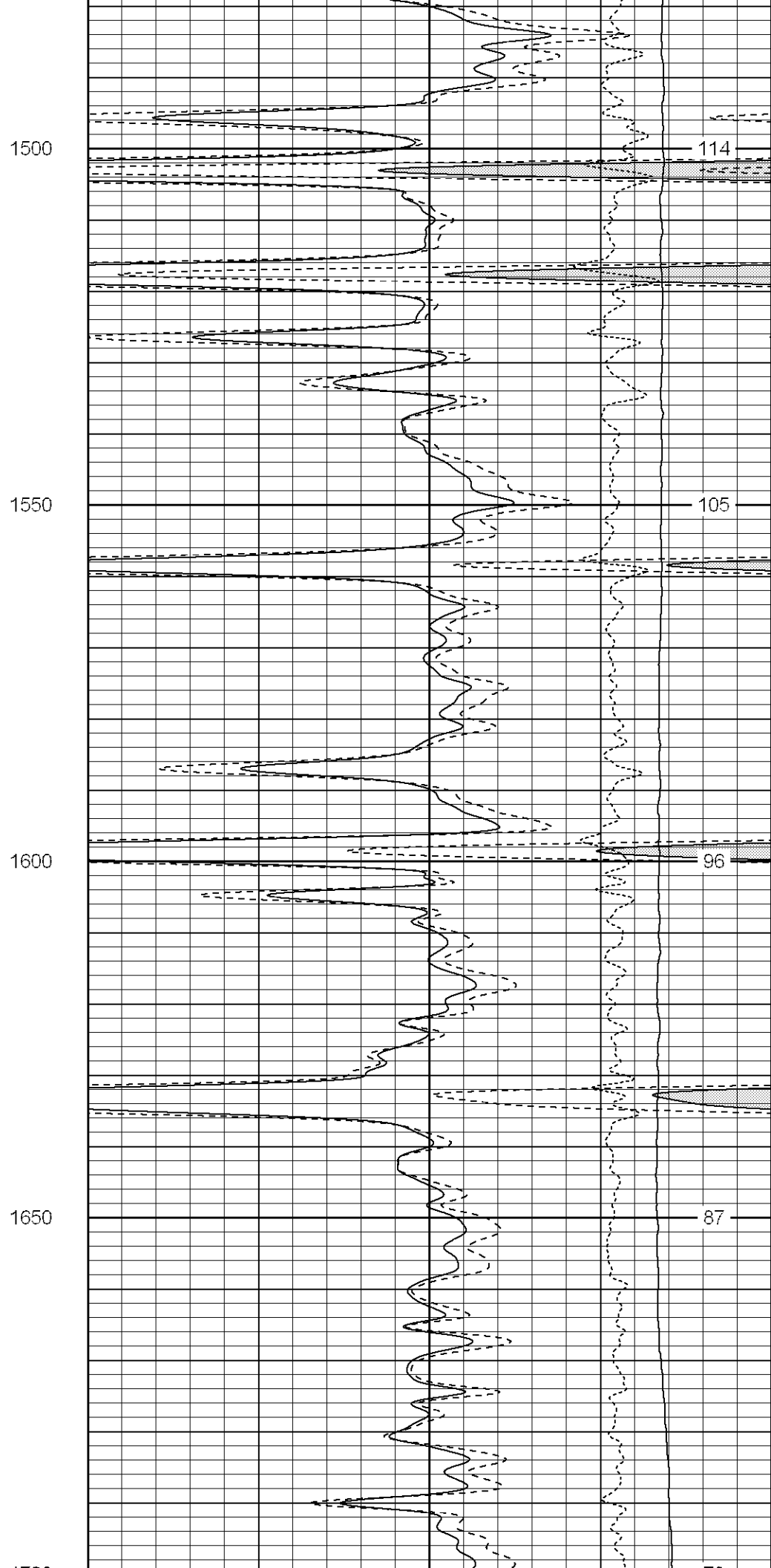
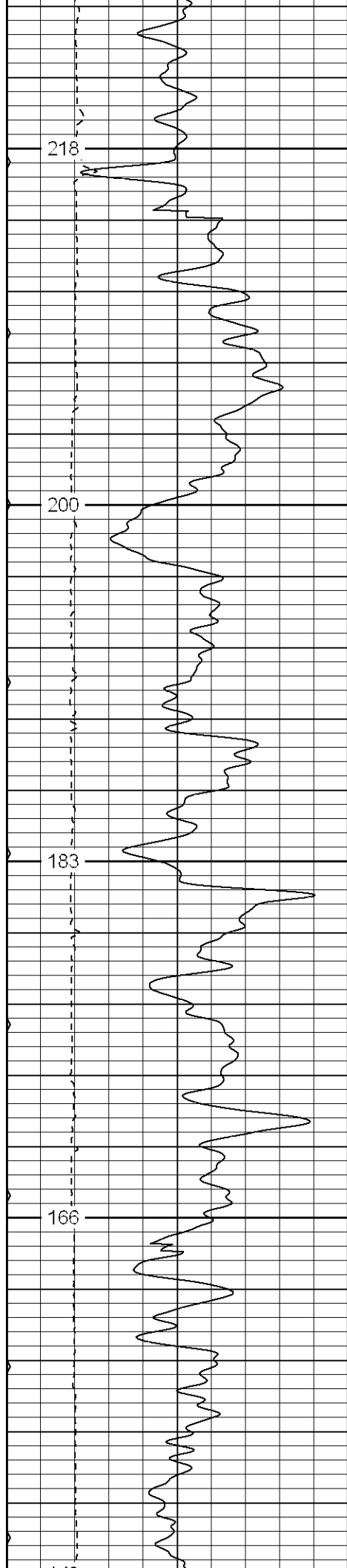




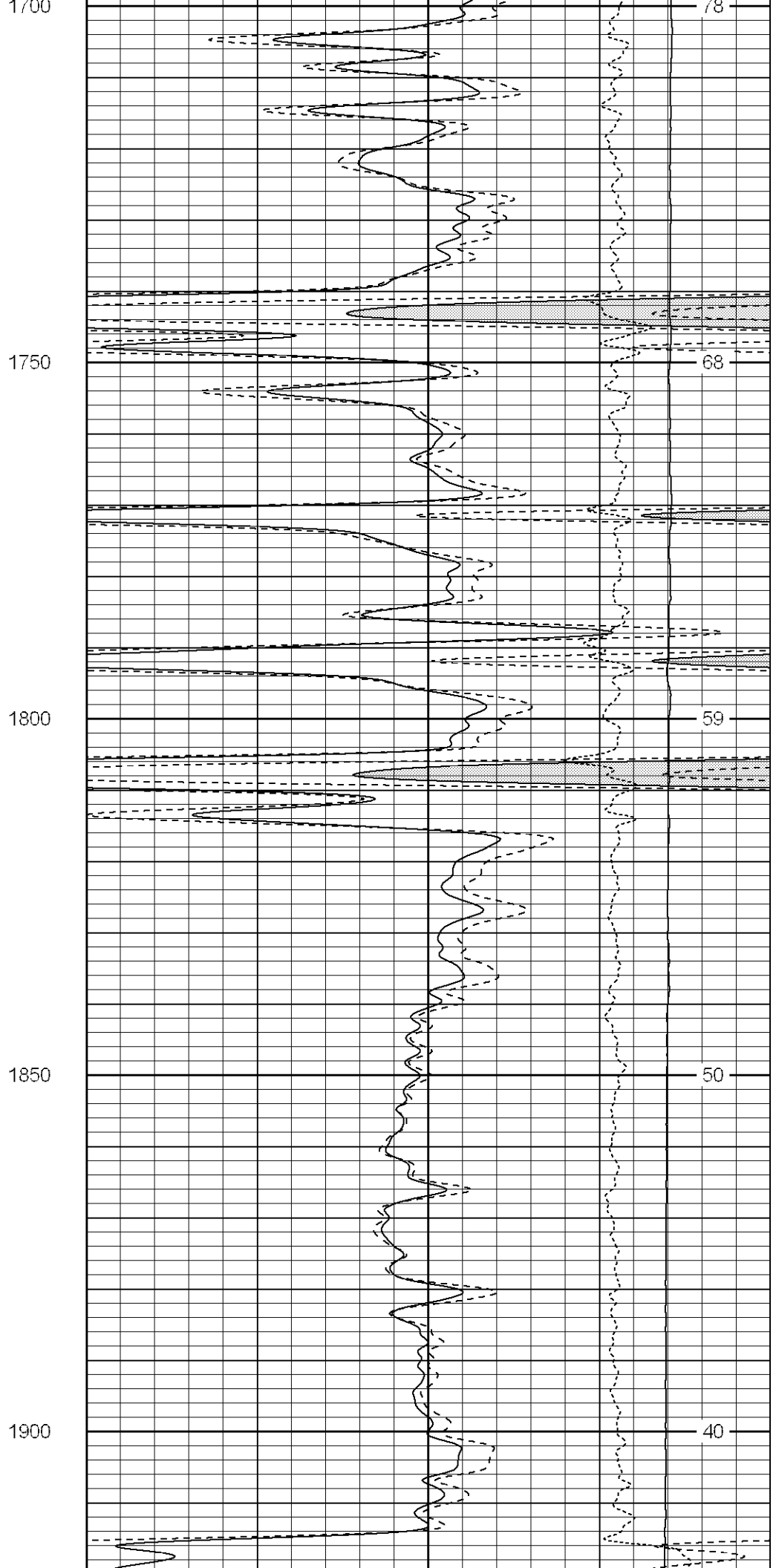
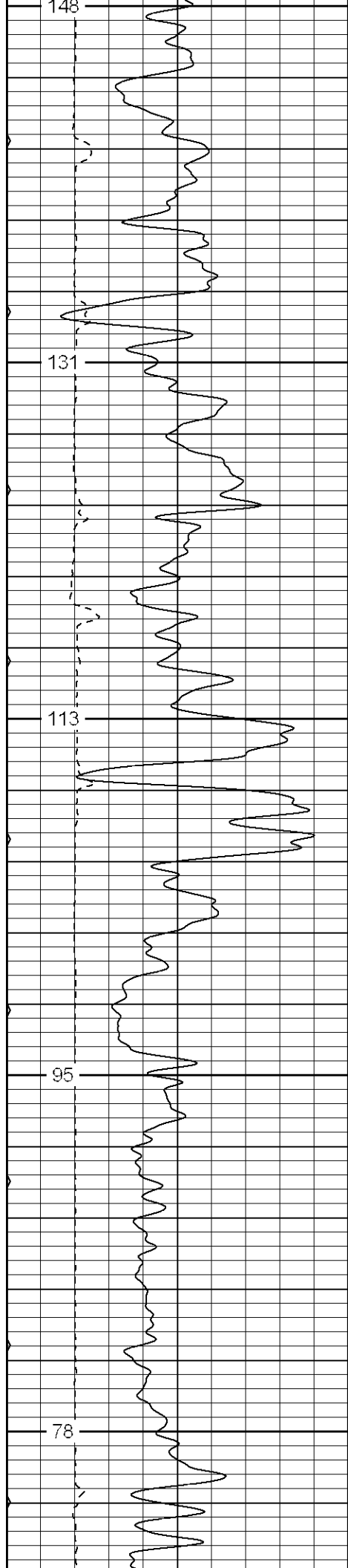


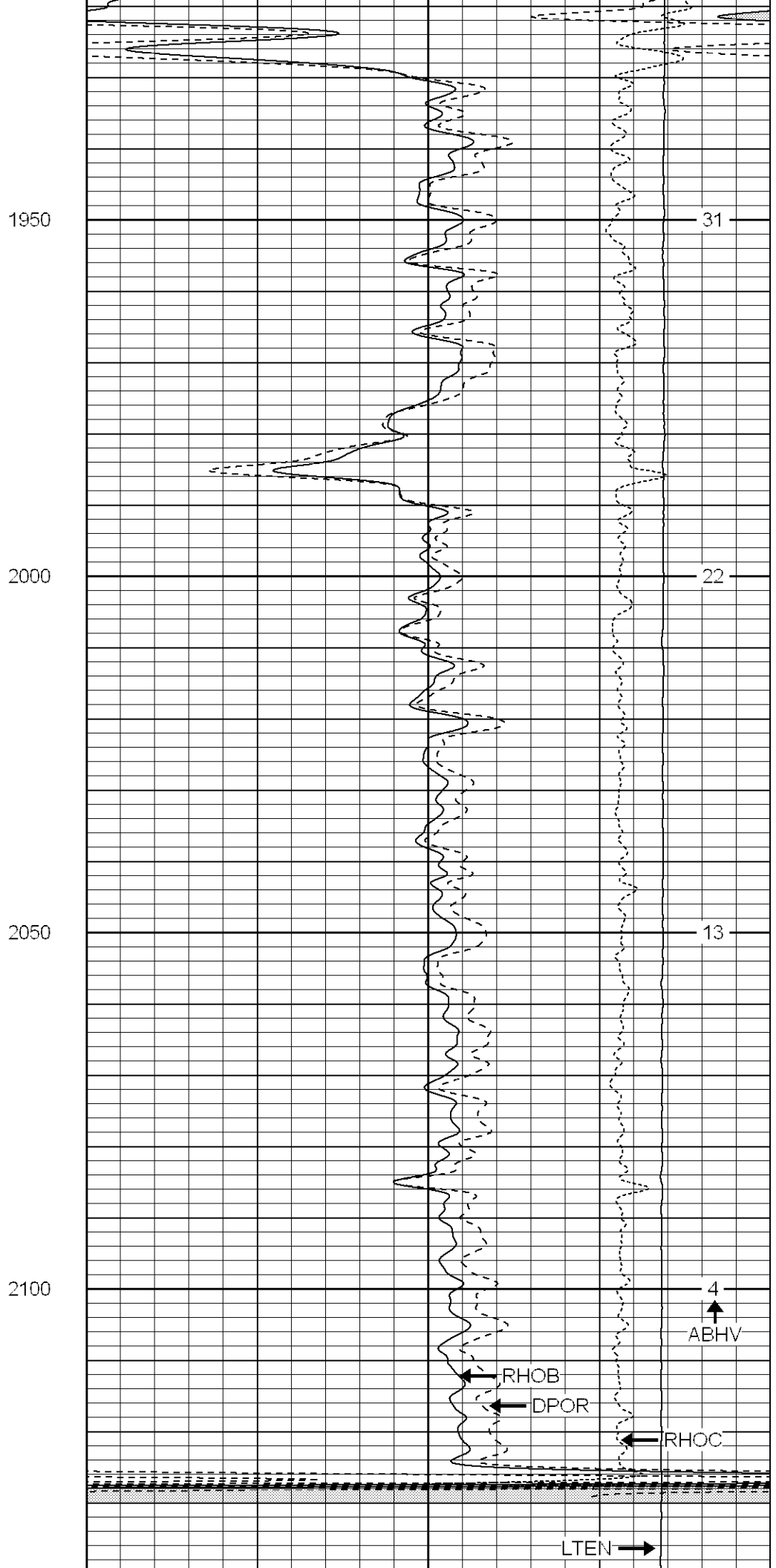
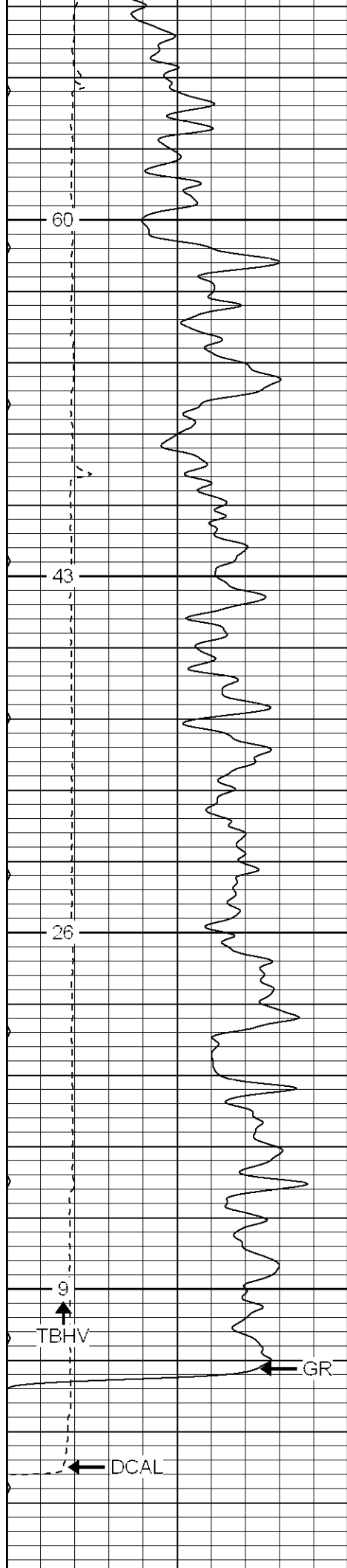












0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80

2150

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

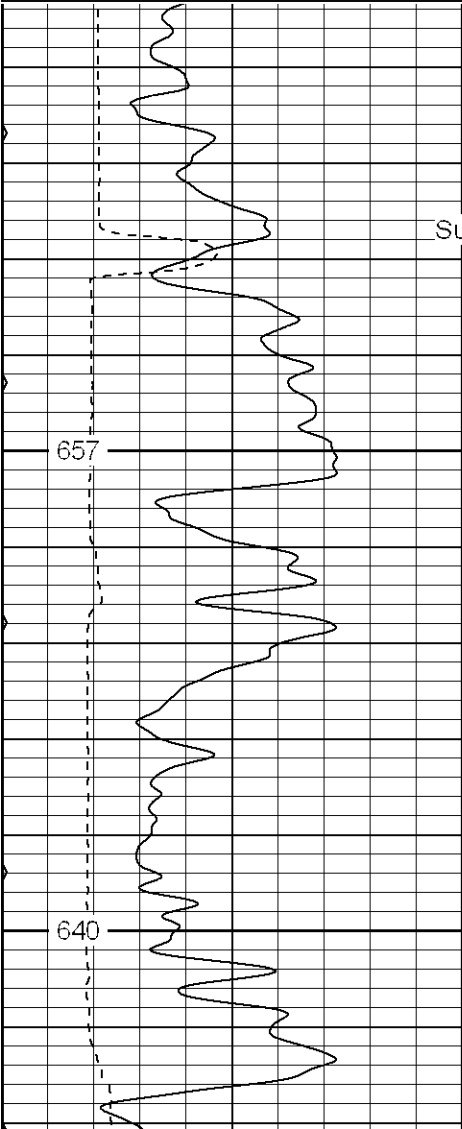
**Patterson**

# Main Pass

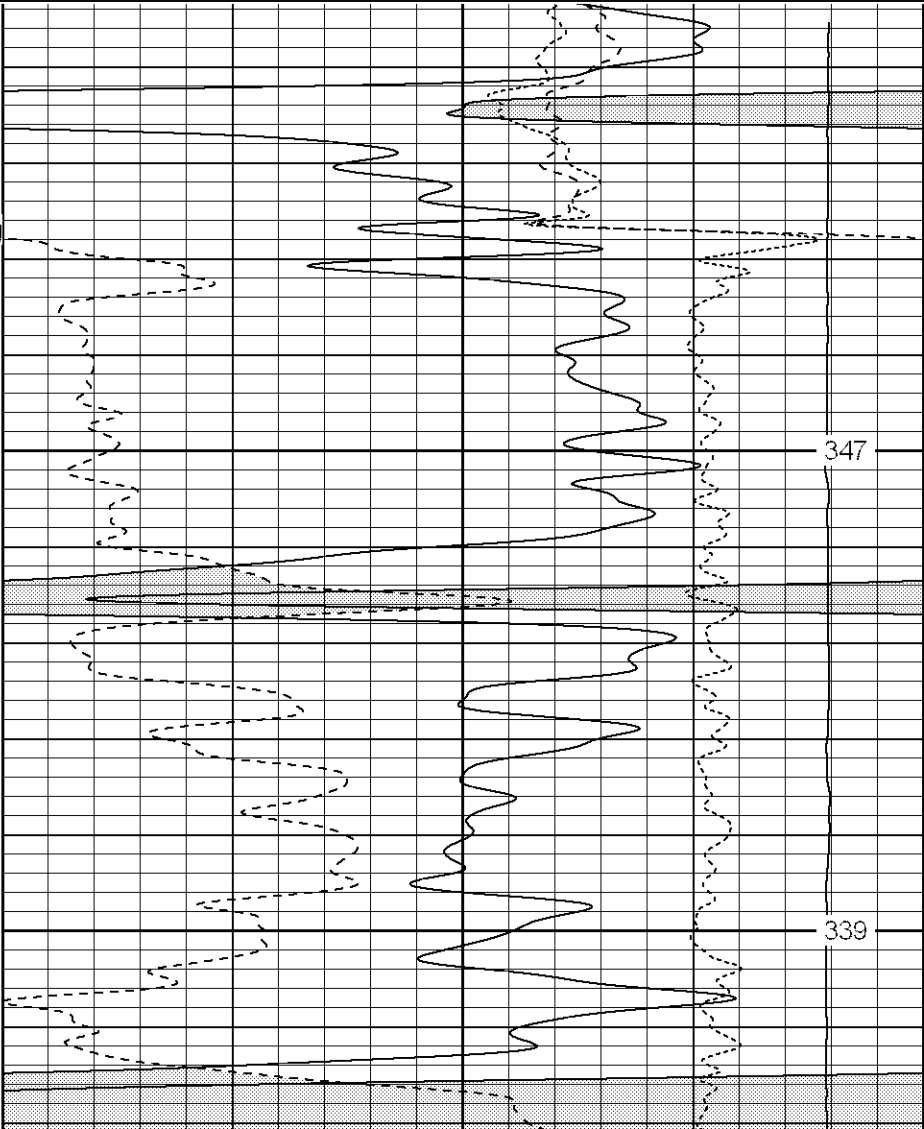
Database File: xtoge1906.db  
 Dataset Pathname: pass2.1  
 Presentation Format: cdnl  
 Dataset Creation: Thu Mar 02 22:13:41 2006 by Calc Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:240

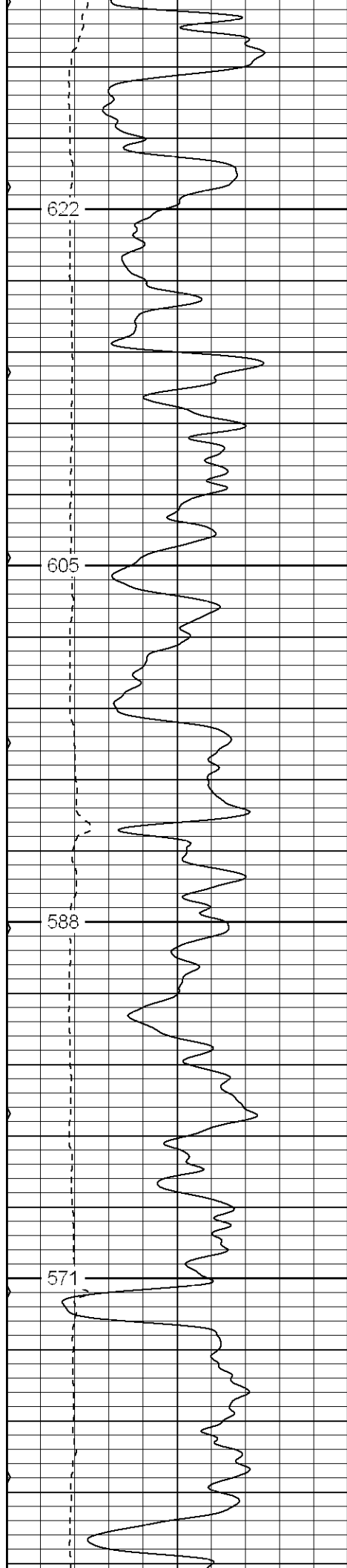
0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80

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



Surface Casing



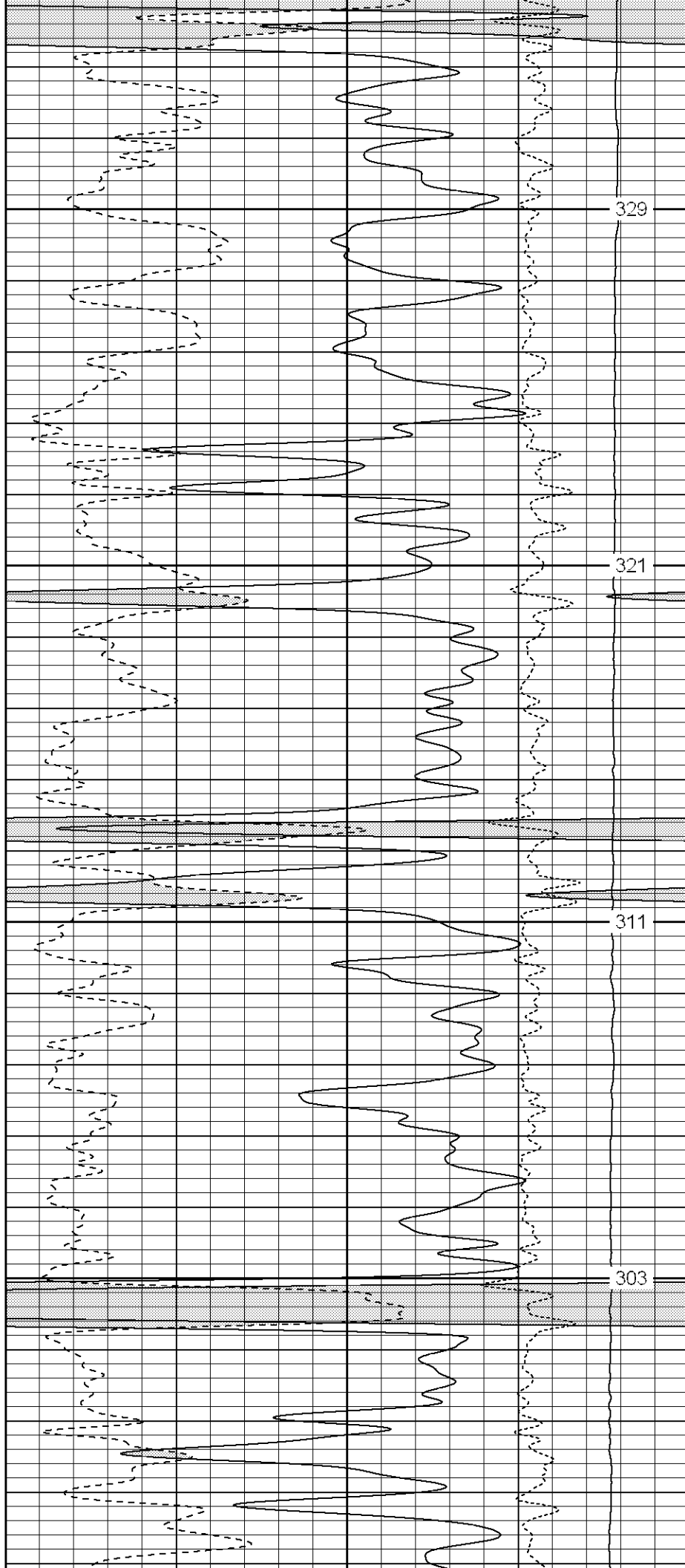


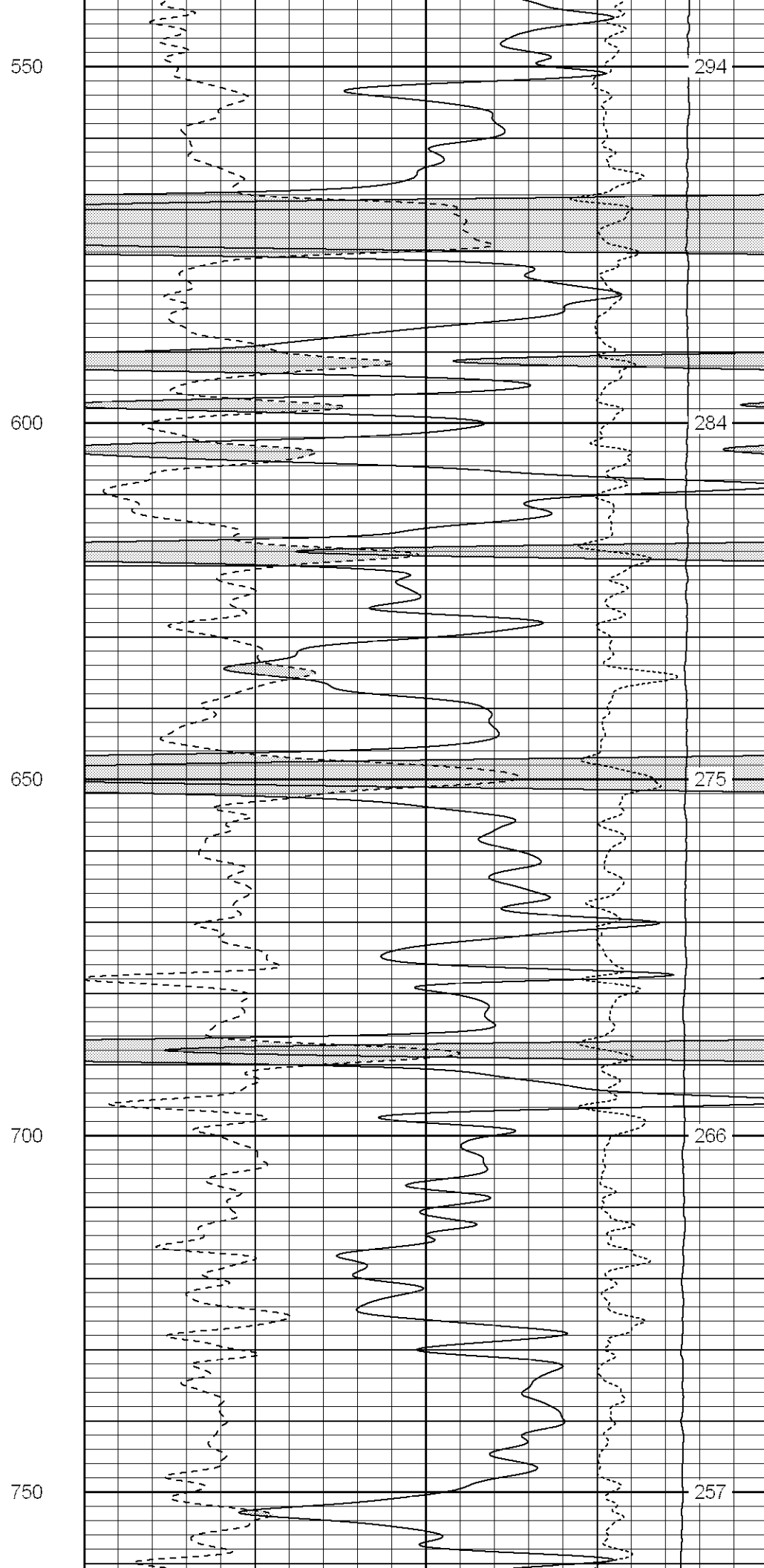
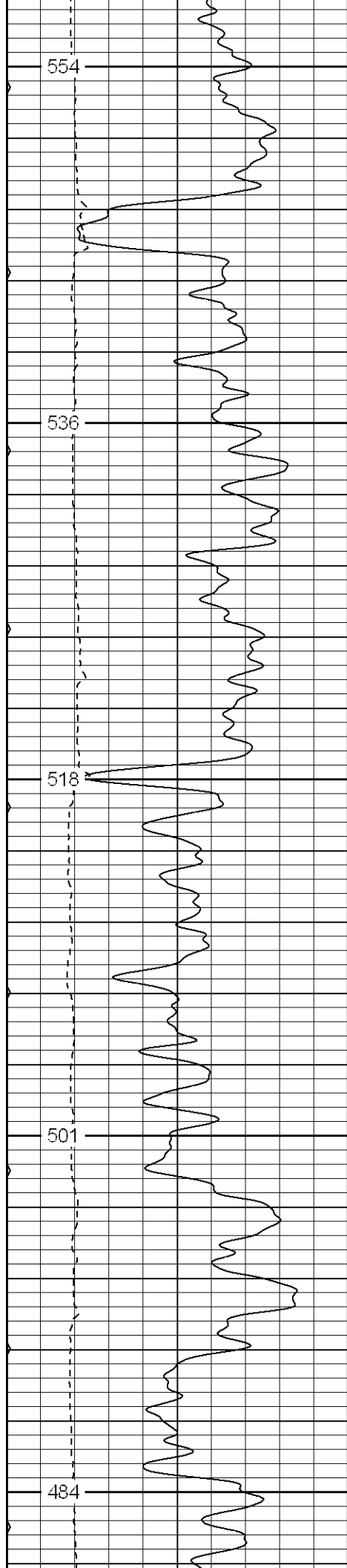
350

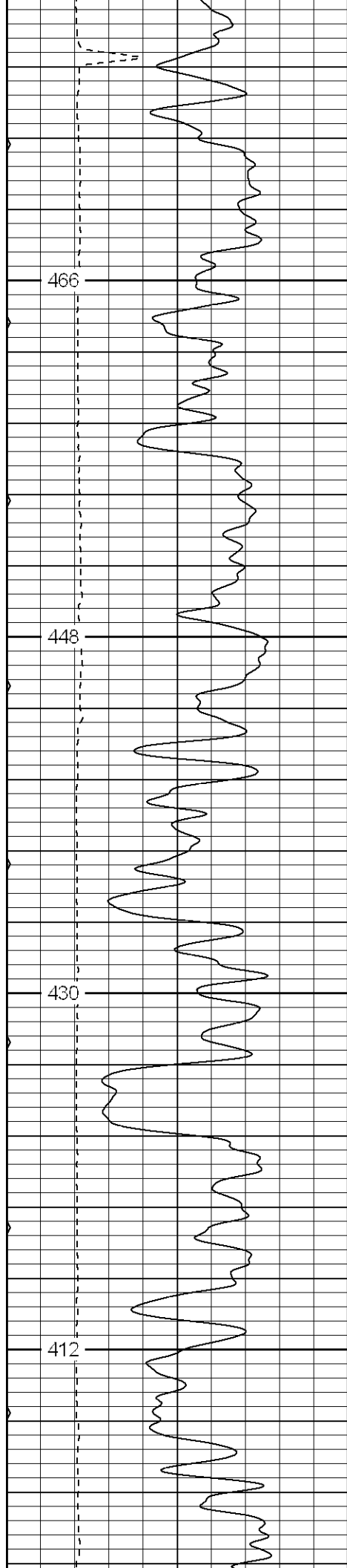
400

450

500





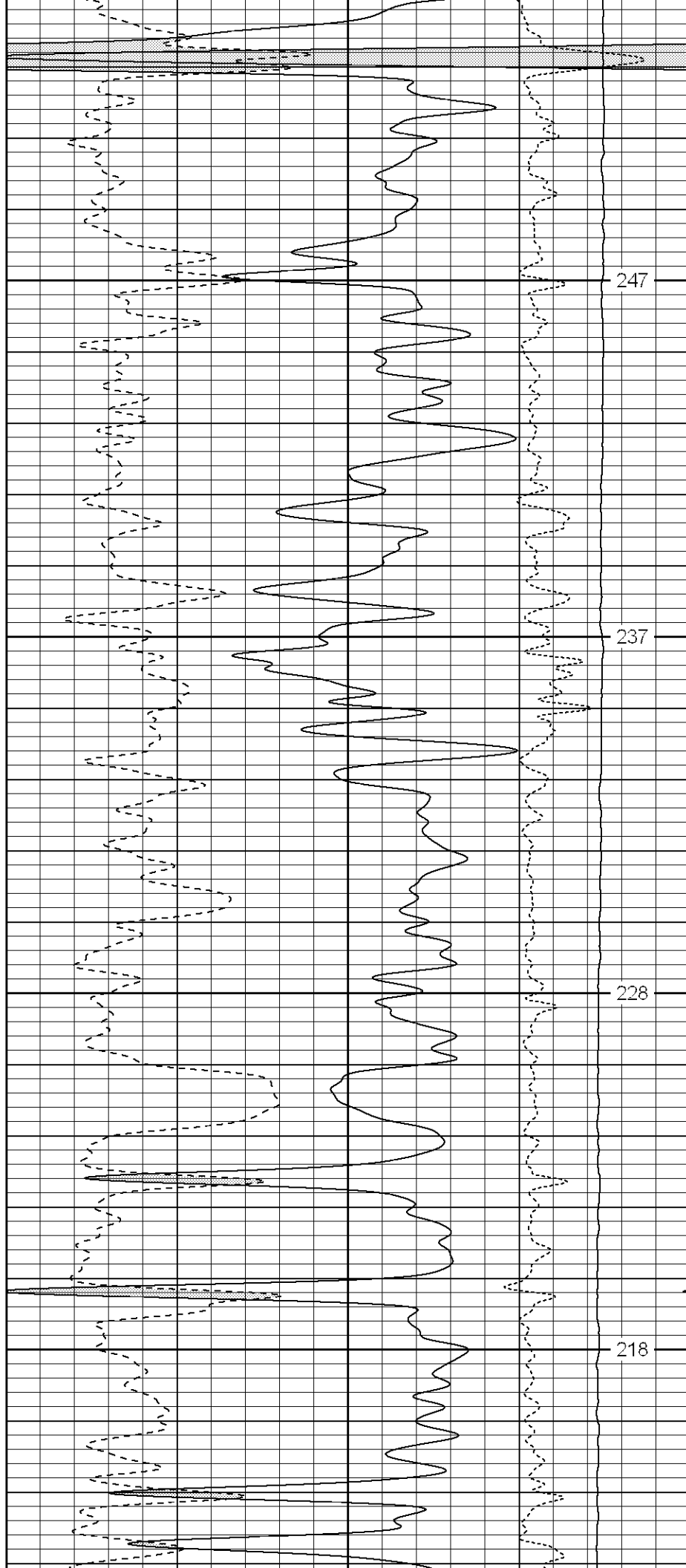


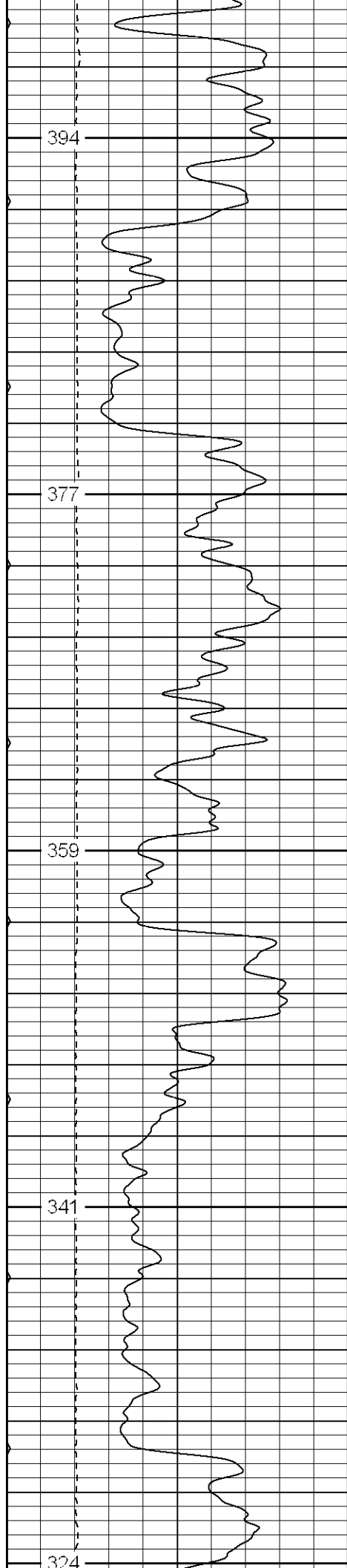
800

850

900

950





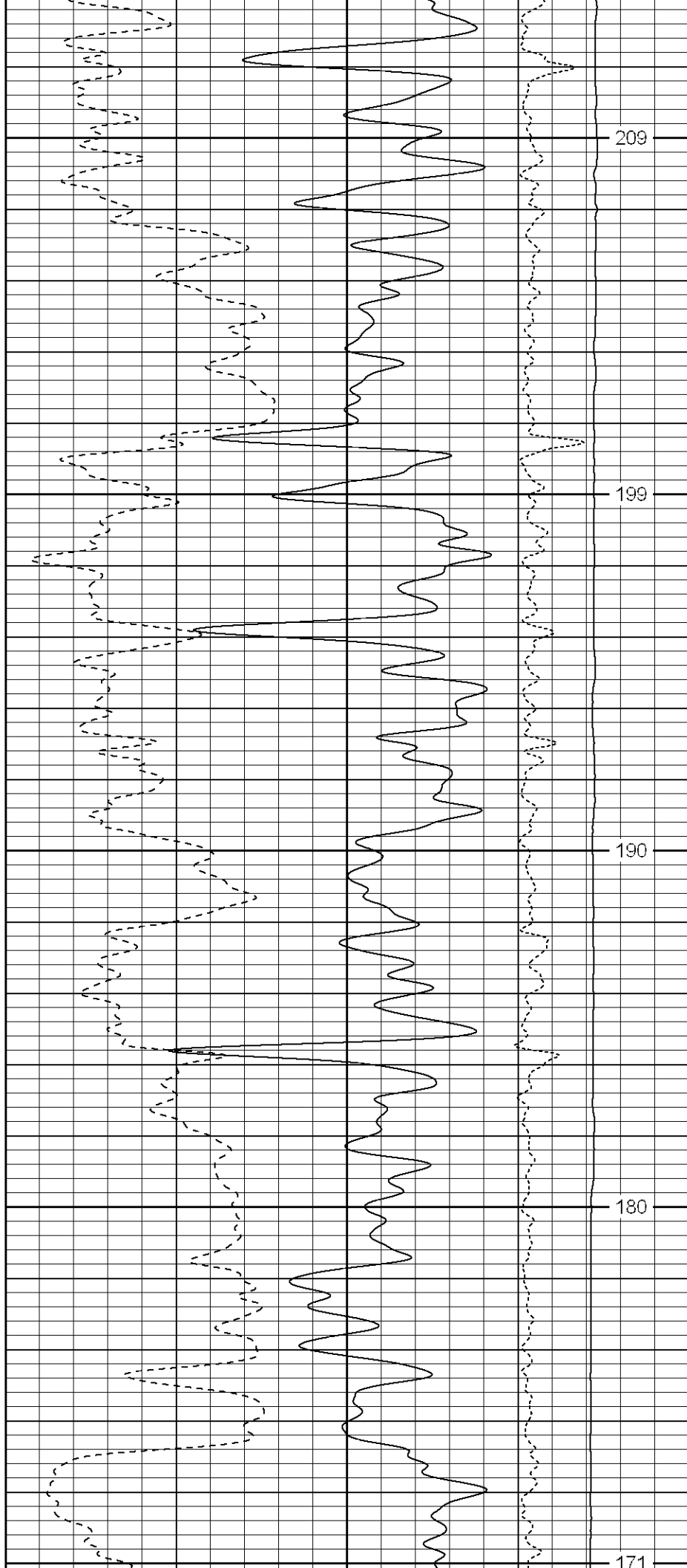
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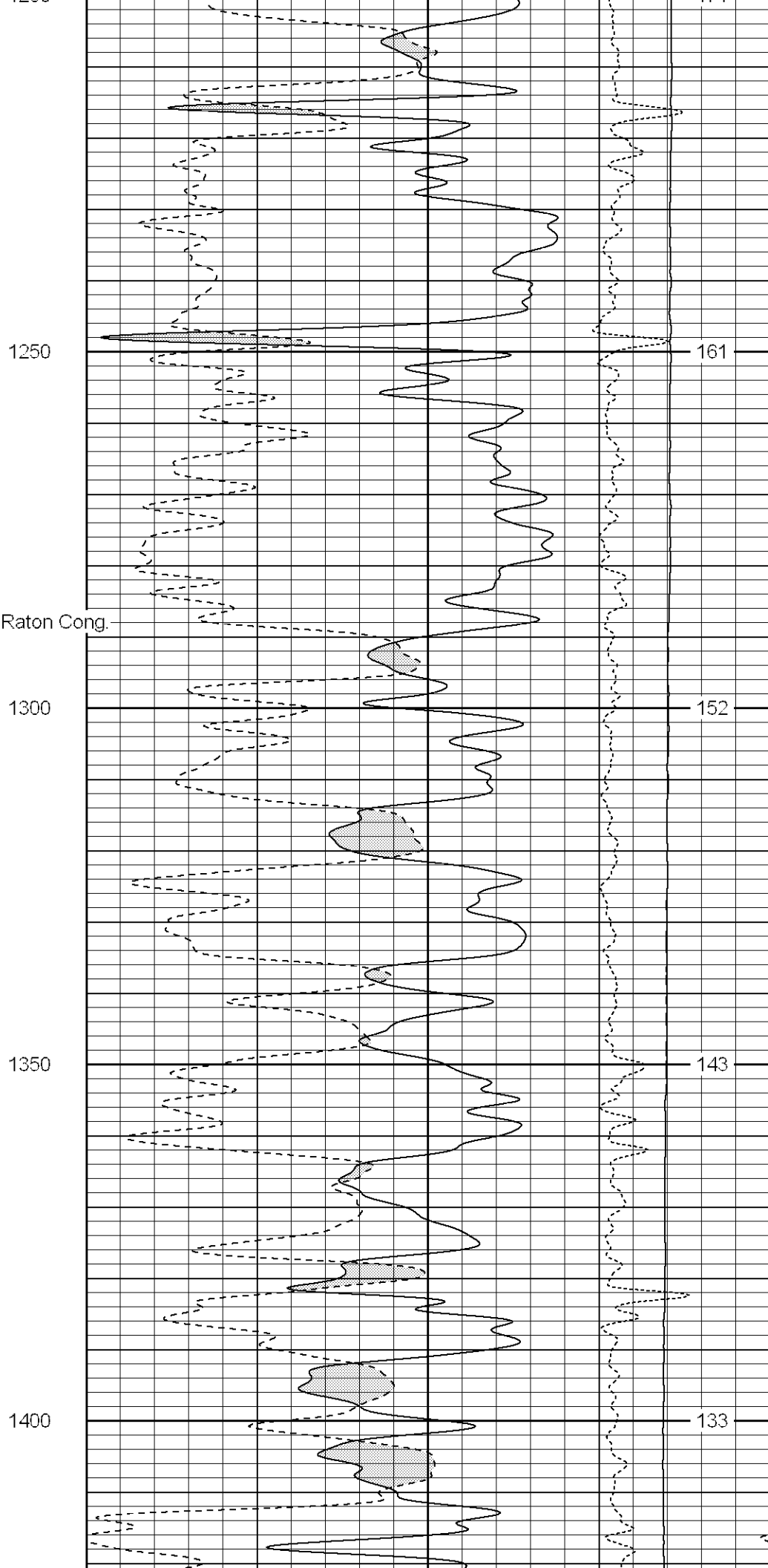
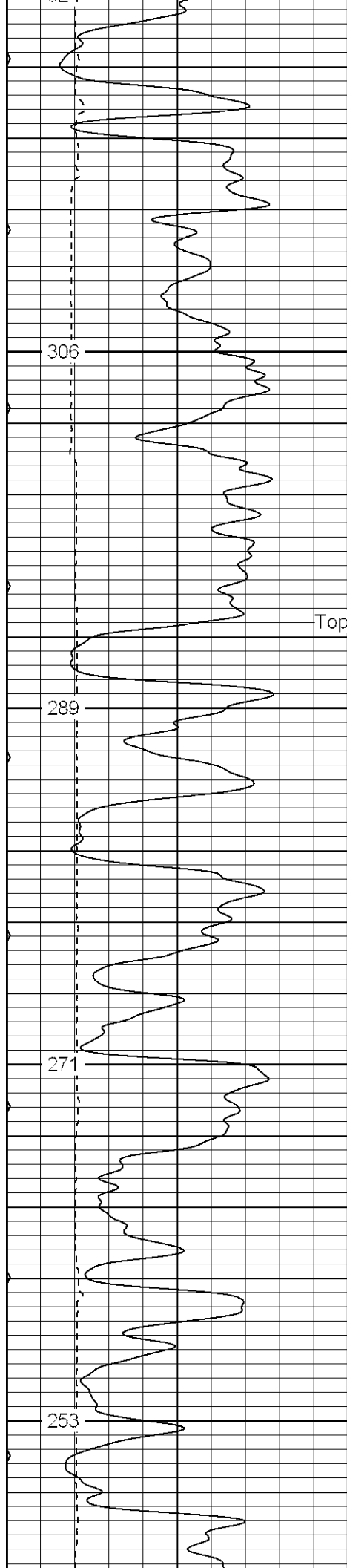
1050

1100

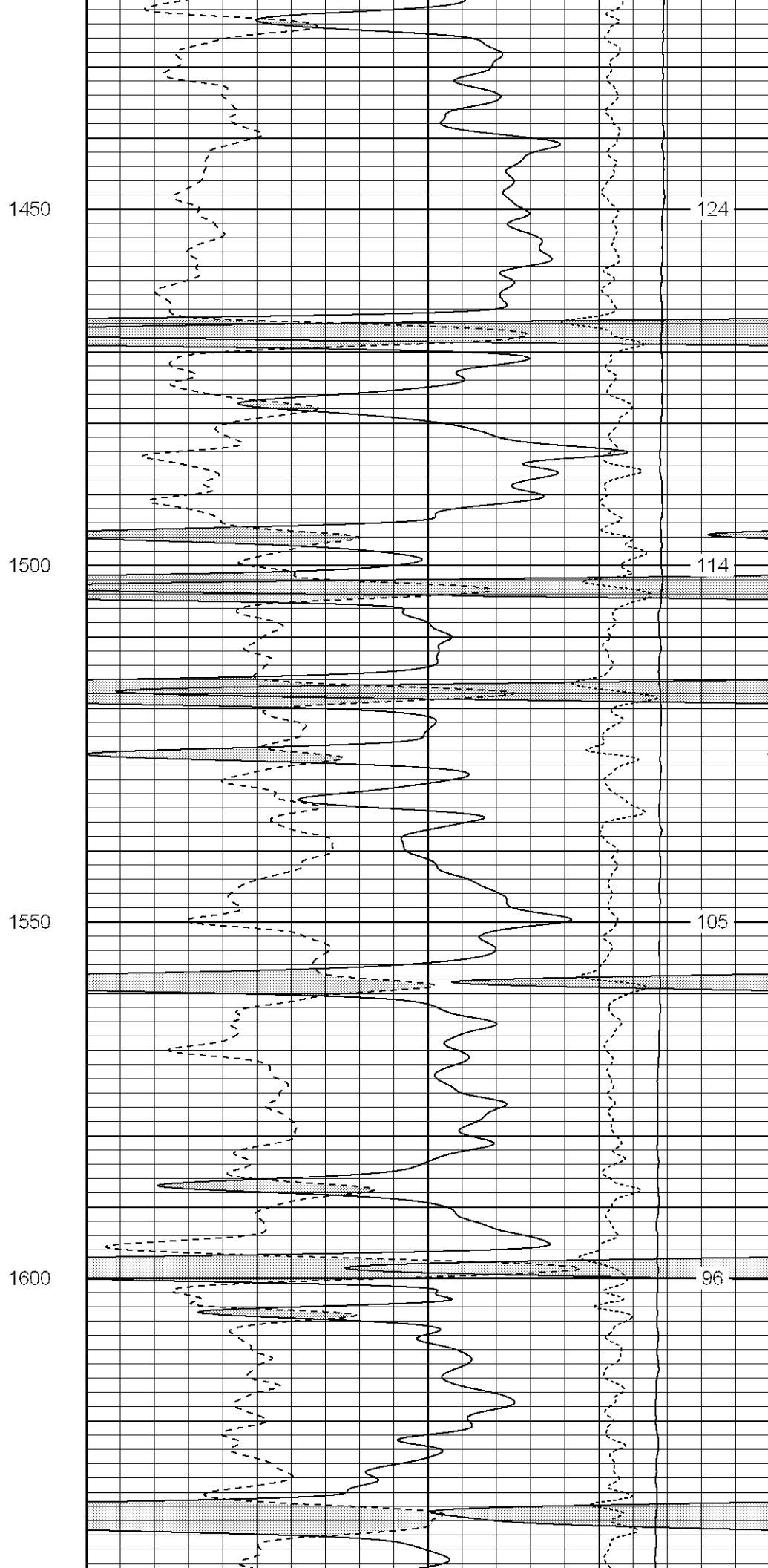
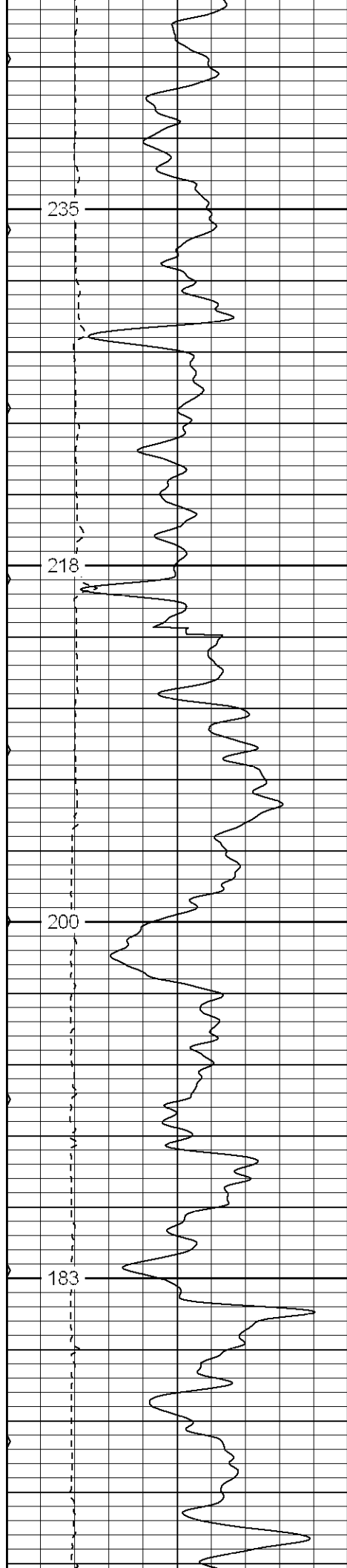
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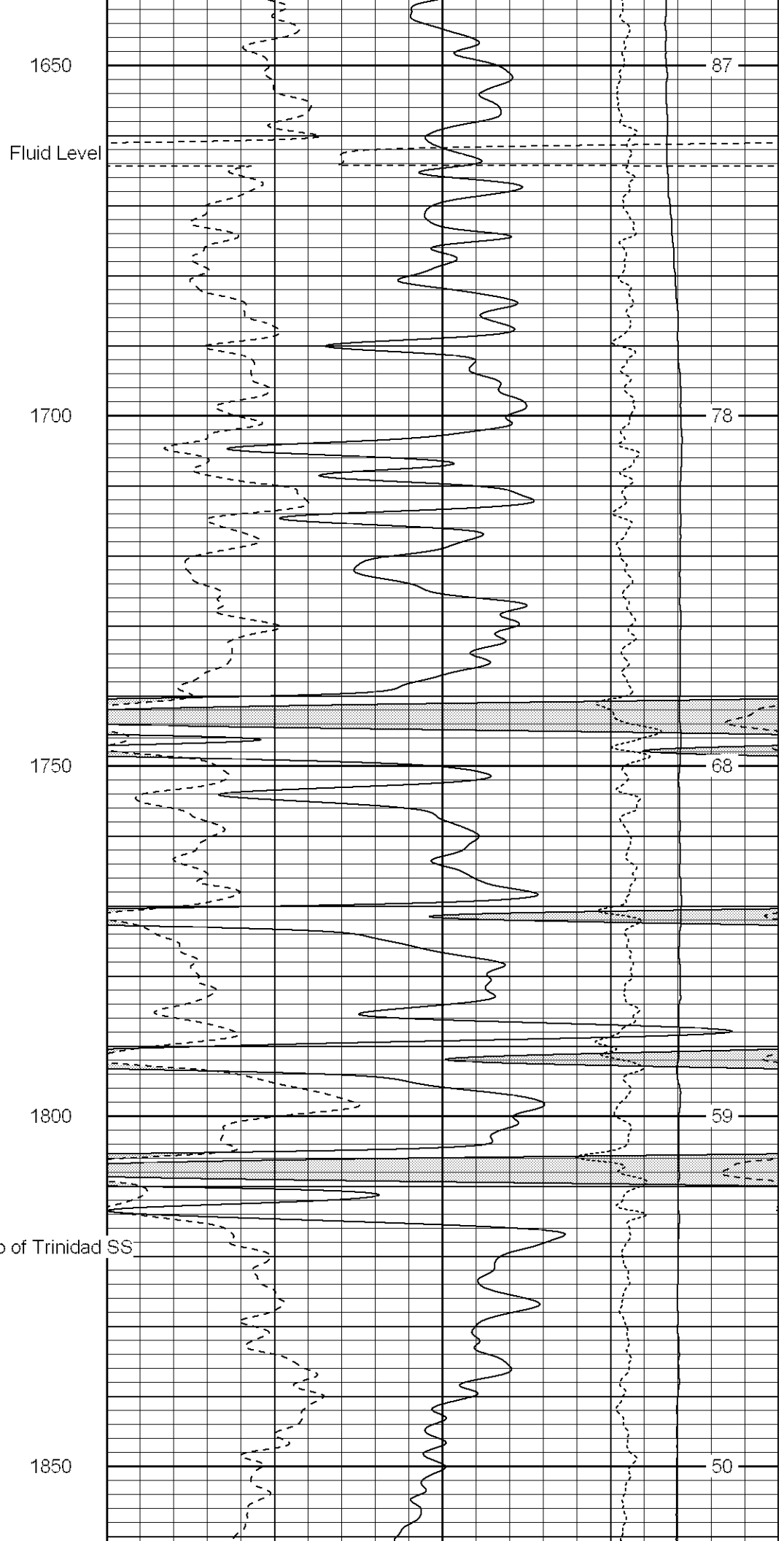
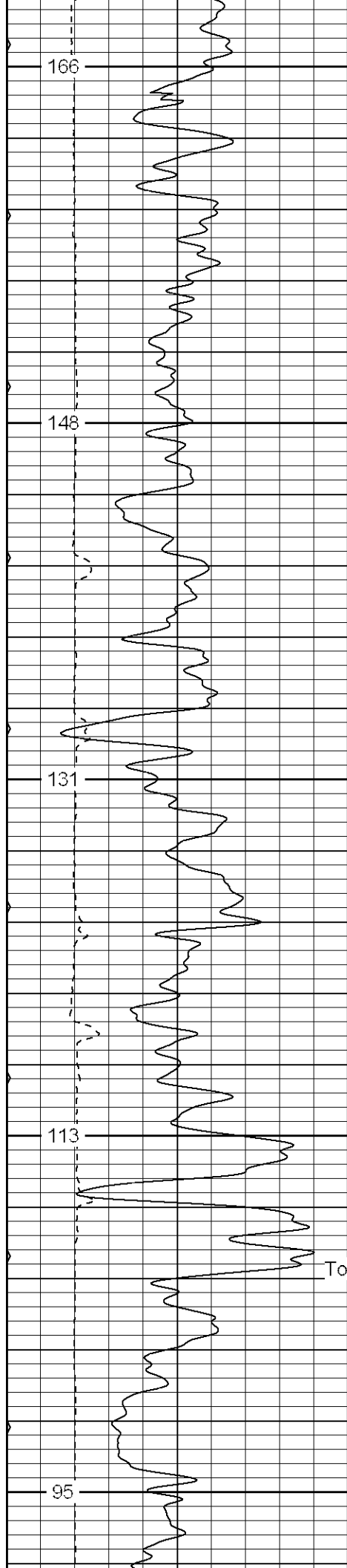
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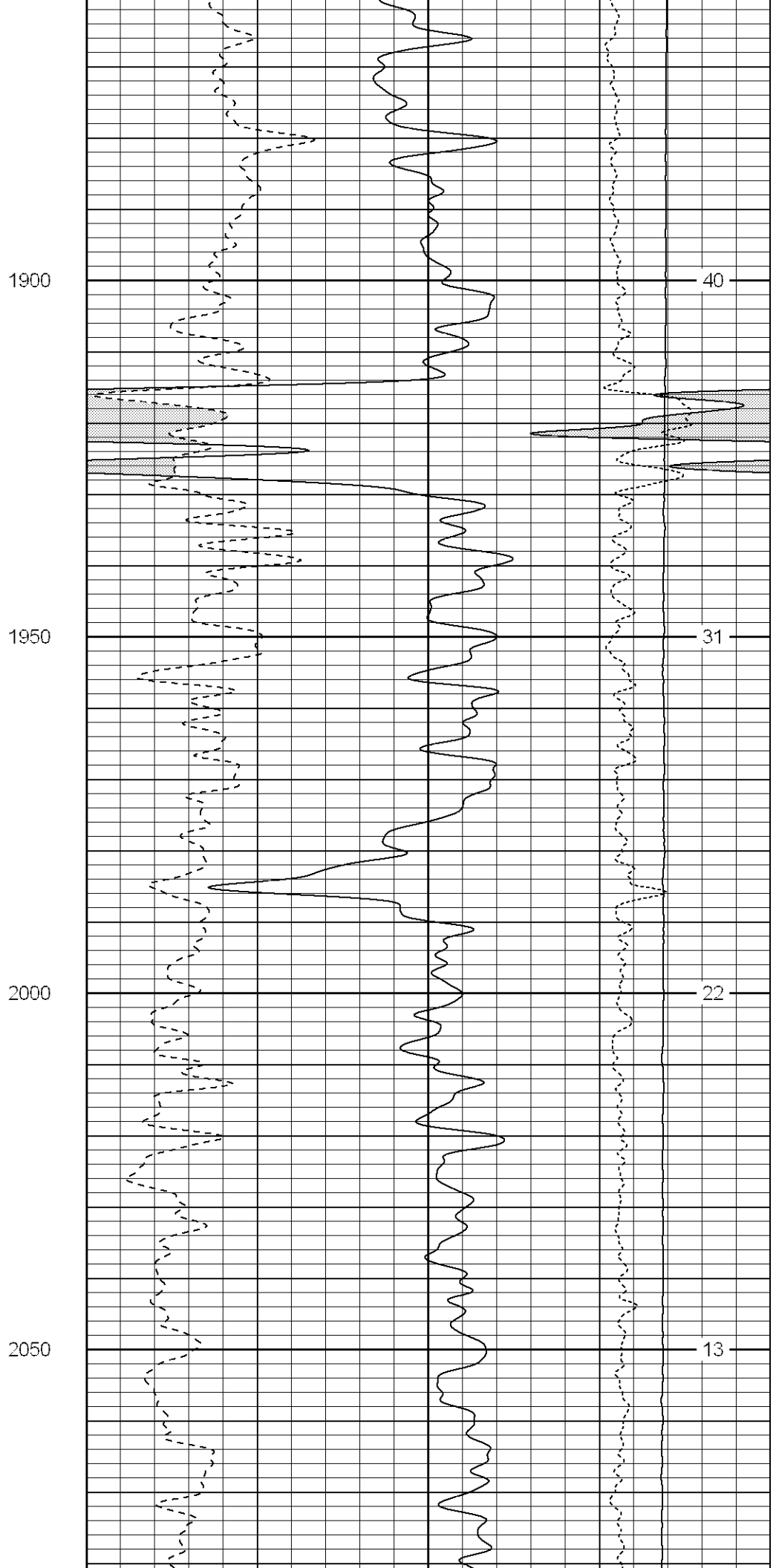
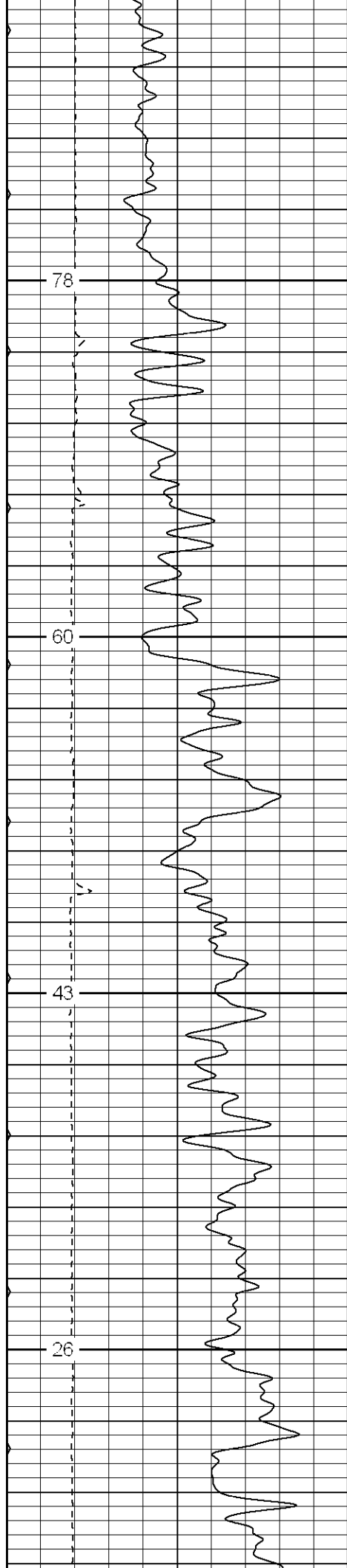


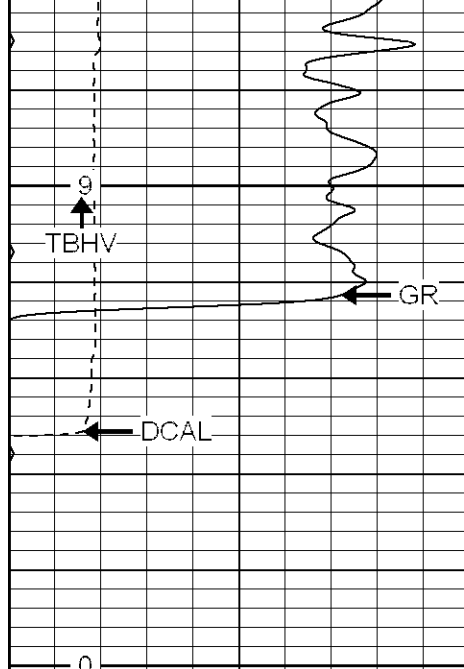








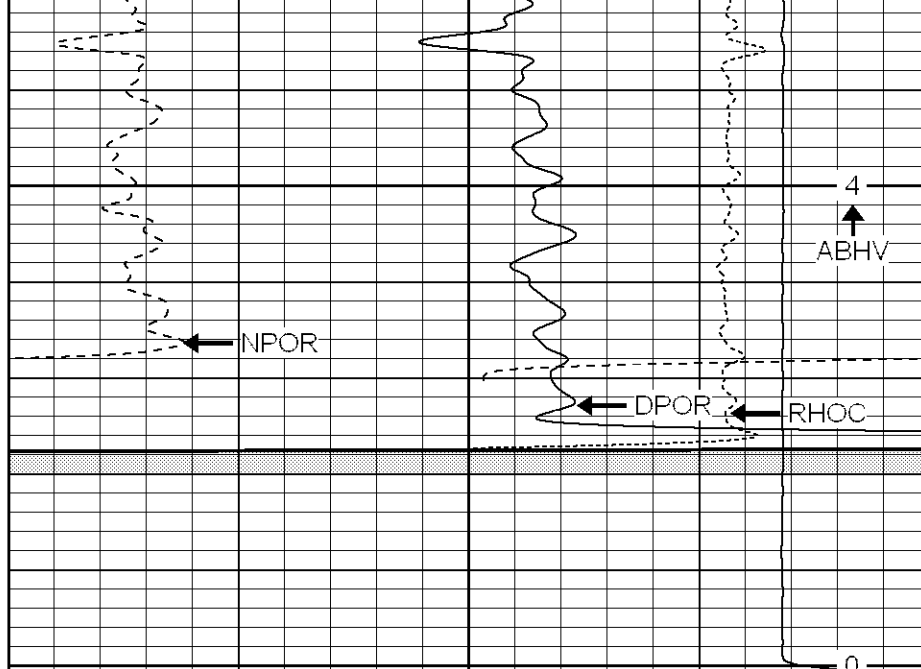




0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80

2100

2150



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

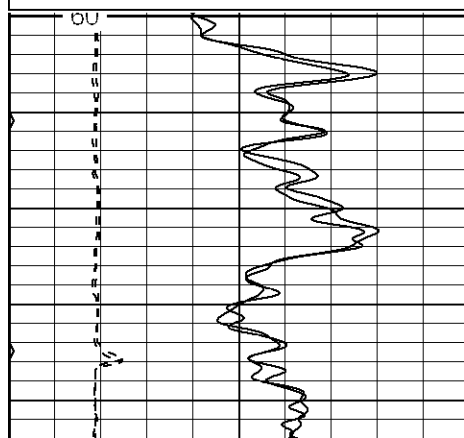
**Patterson**

## Repeat Pass

Database File: xtoge1906.db  
 Dataset Pathname: pass1  
 Presentation Format: cdnl  
 Dataset Creation: Thu Mar 02 19:13:07 2006 by Log Warrior 7.0 STD Ope  
 Charted by: Depth in Feet scaled 1:240

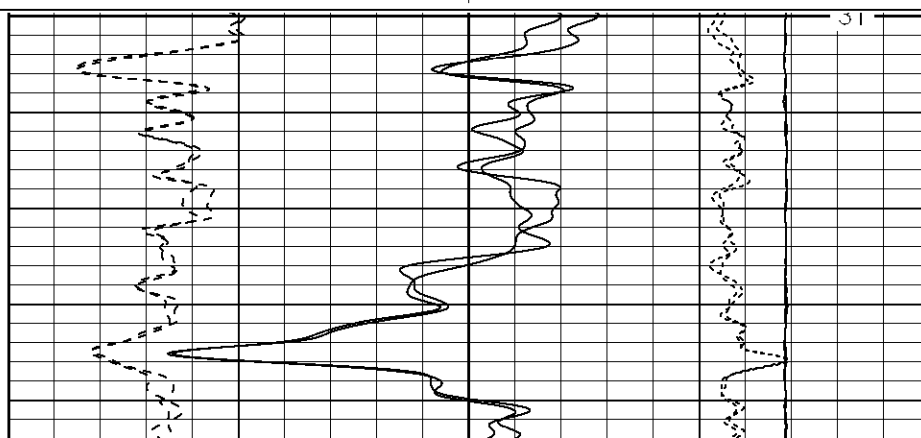
0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16

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



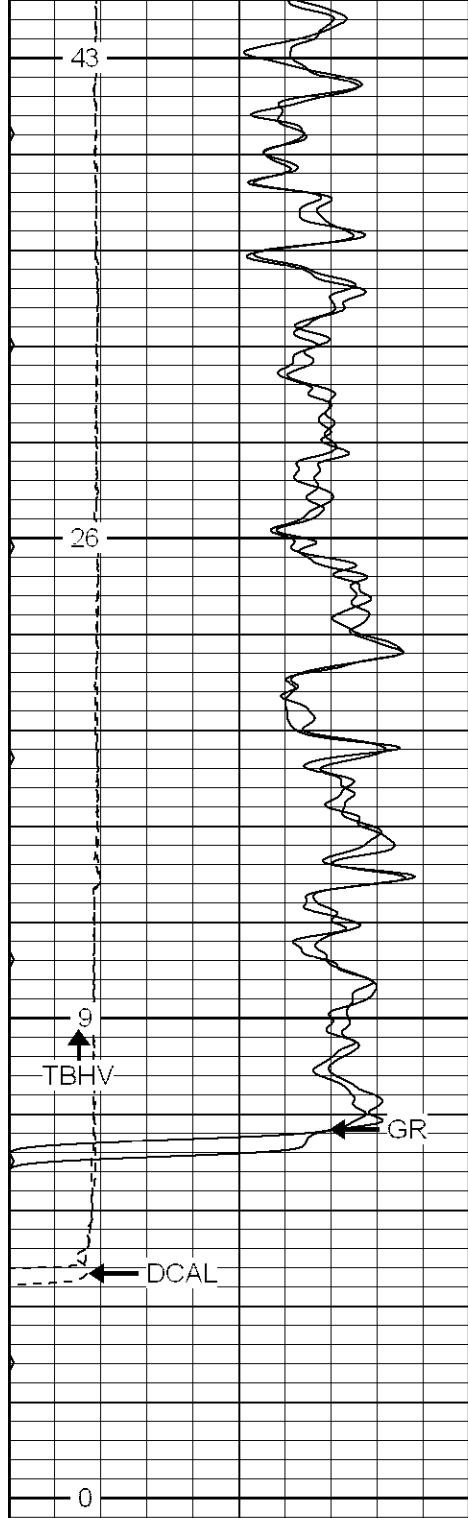
2100

2150

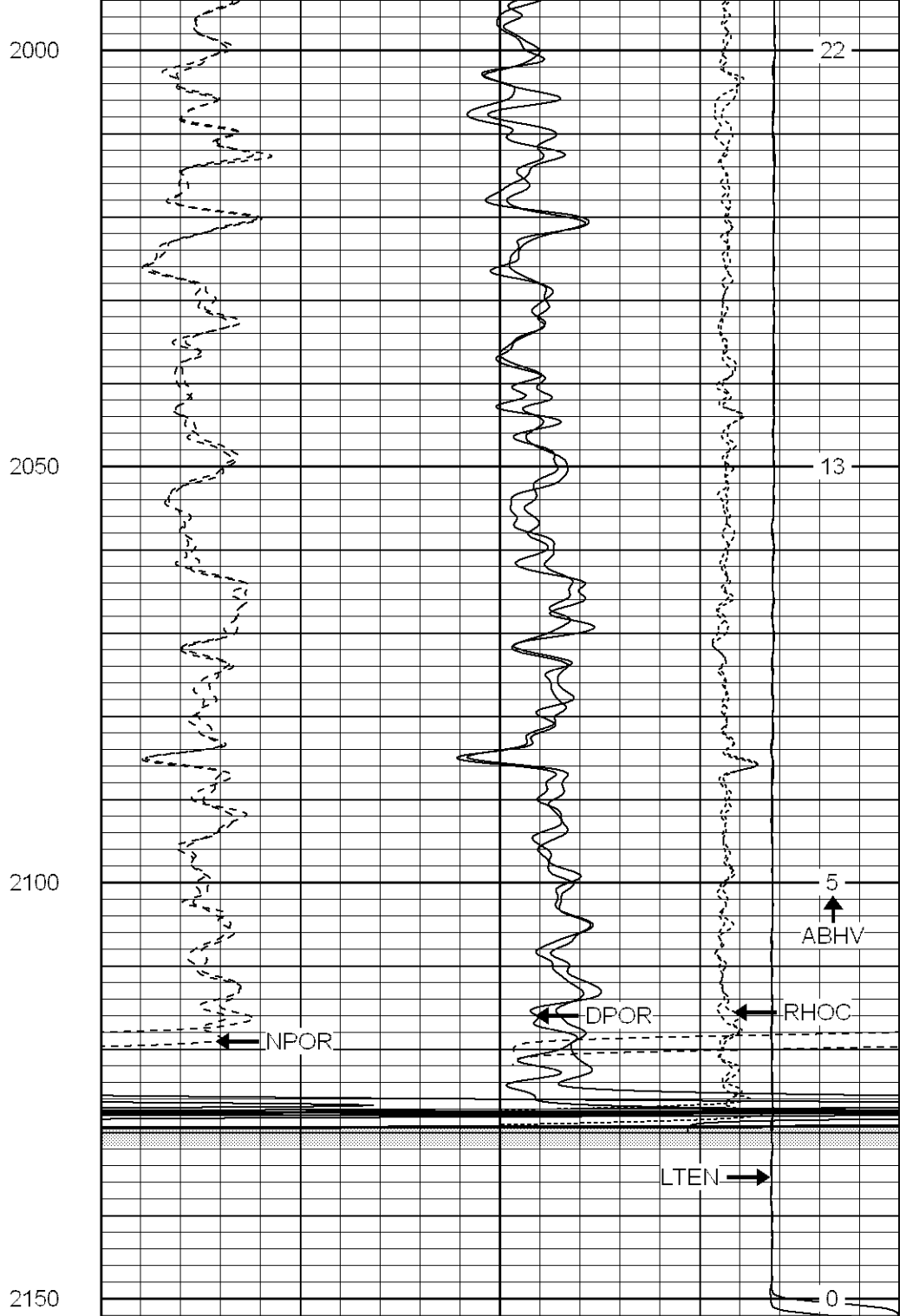


2100

2150



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

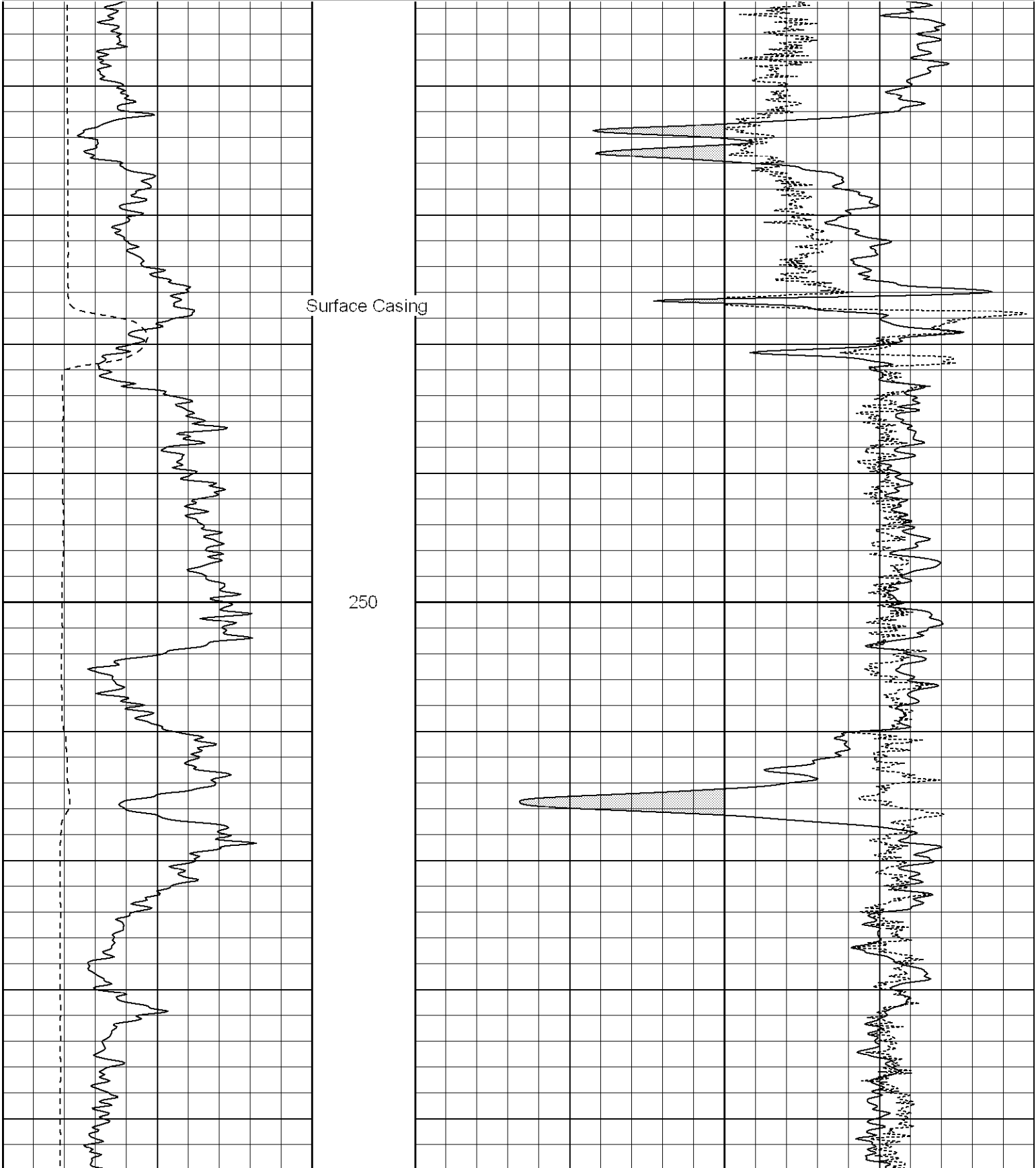
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Dataset Pathname: pass2.3  
Presentation Format: cdlhr  
Dataset Creation: Fri Mar 03 09:53:31 2006 by Calc Warrior 7.0 STD Ope  
Charted by: Depth in Feet scaled 1:120

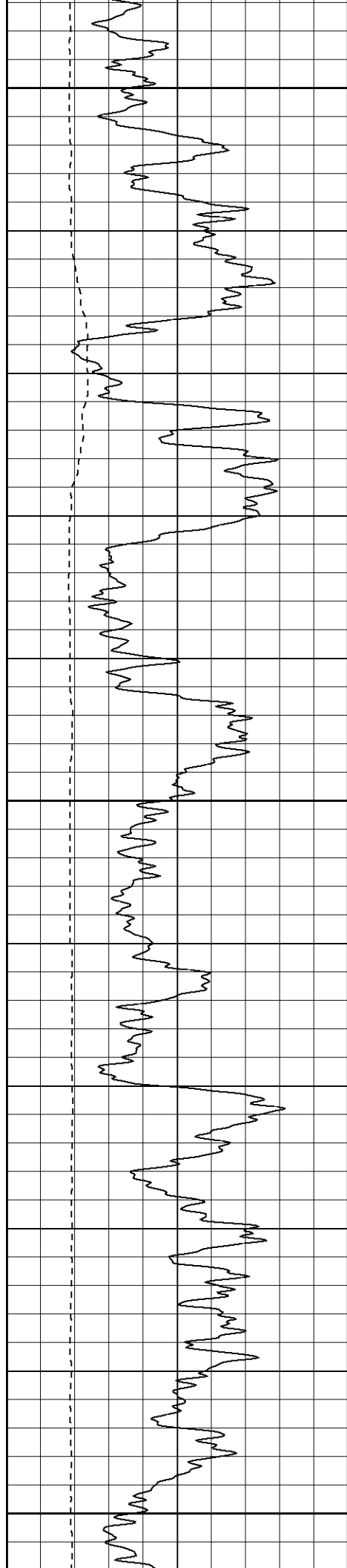
0	GR (GAPI)	200
6	DCAL (in)	16

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

Surface Casing

250

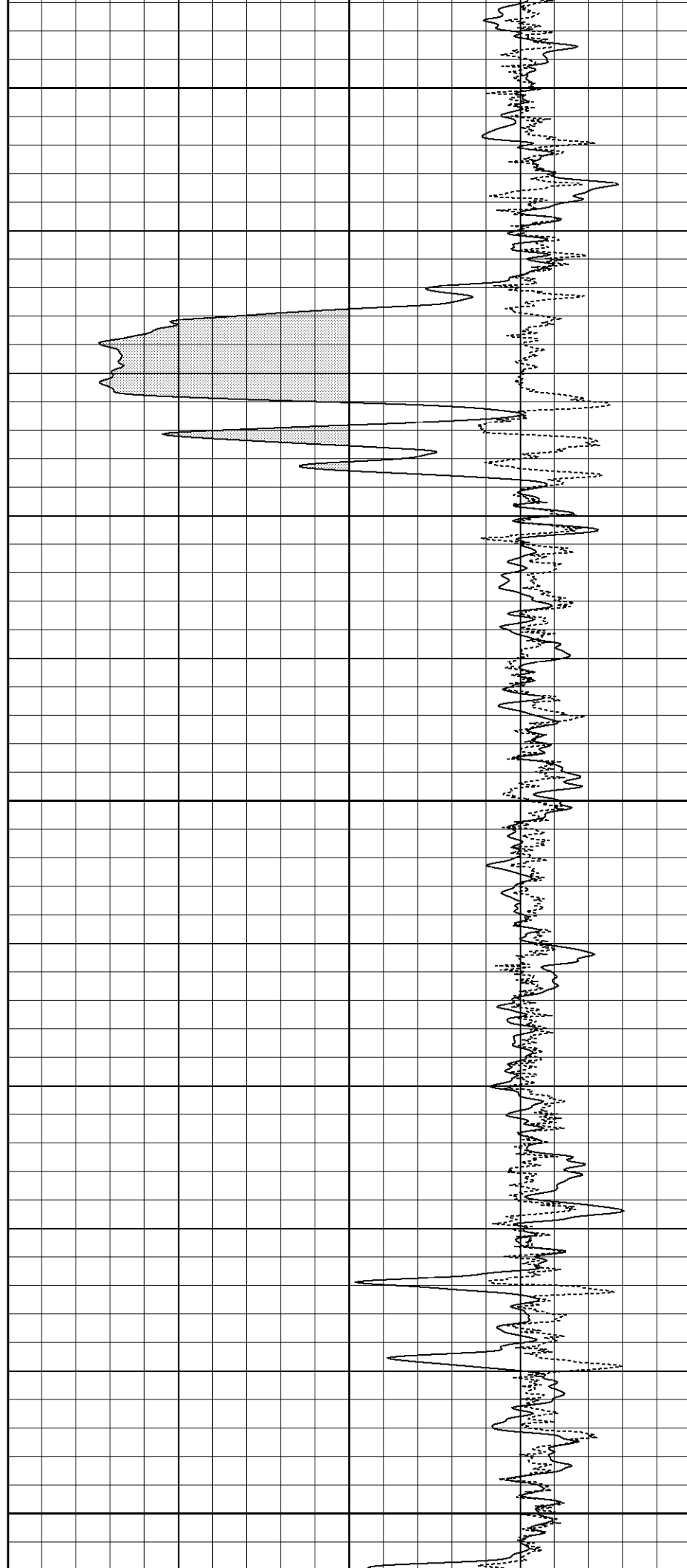


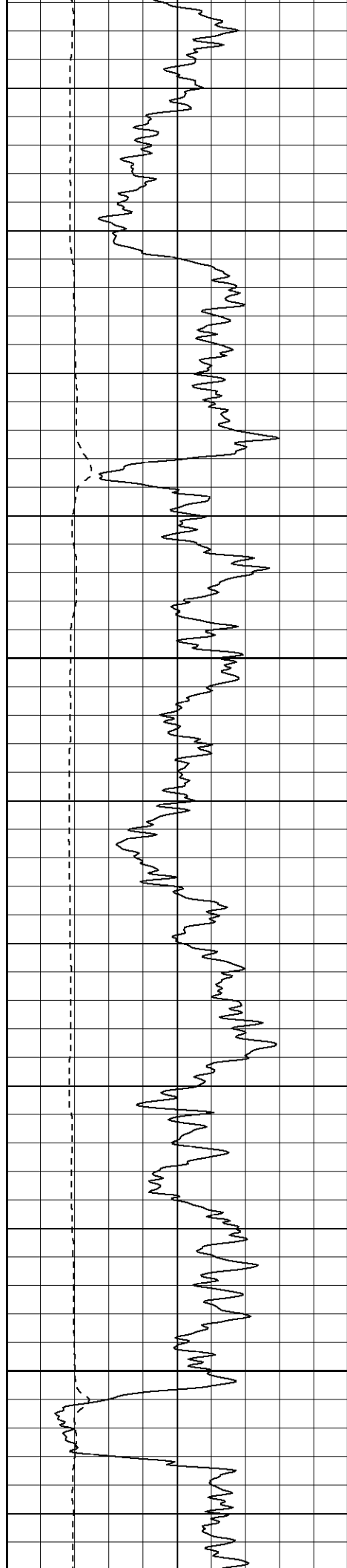


300

350

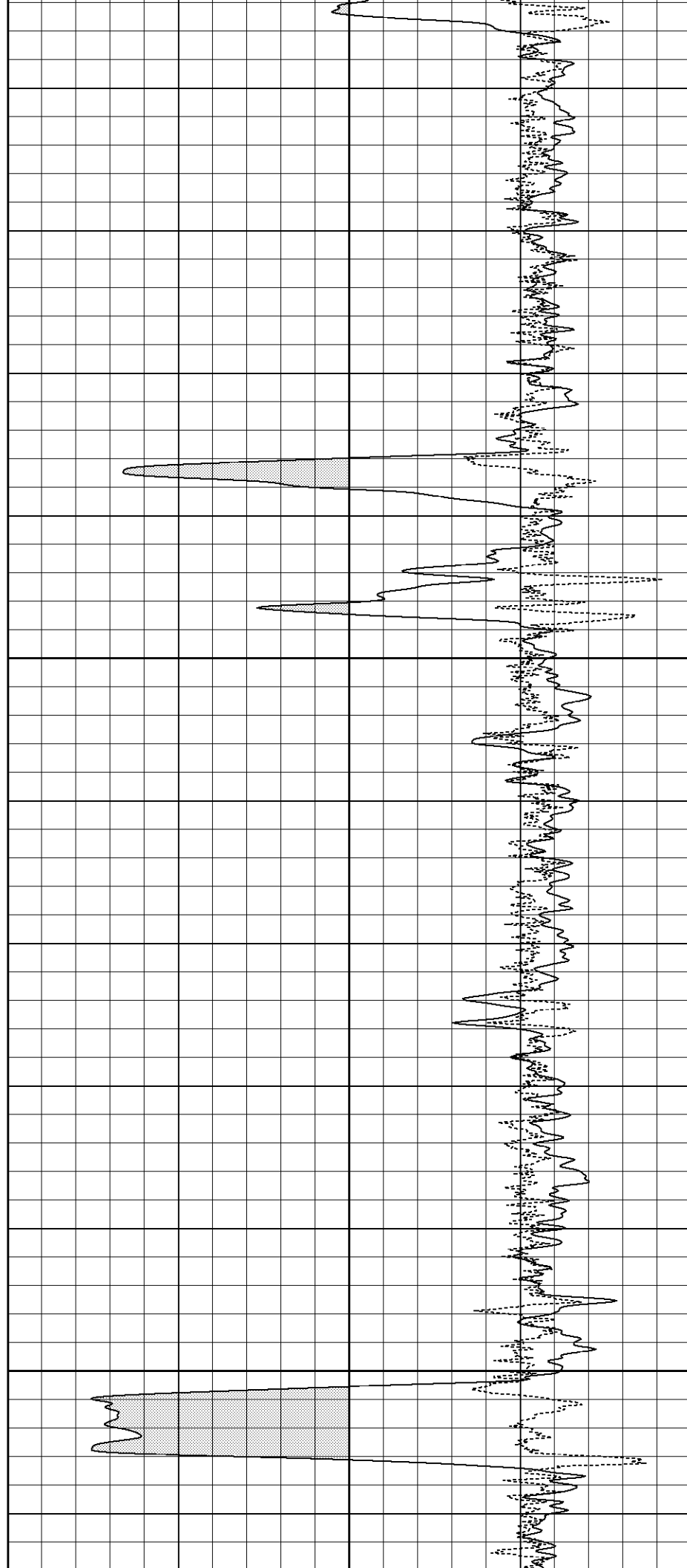
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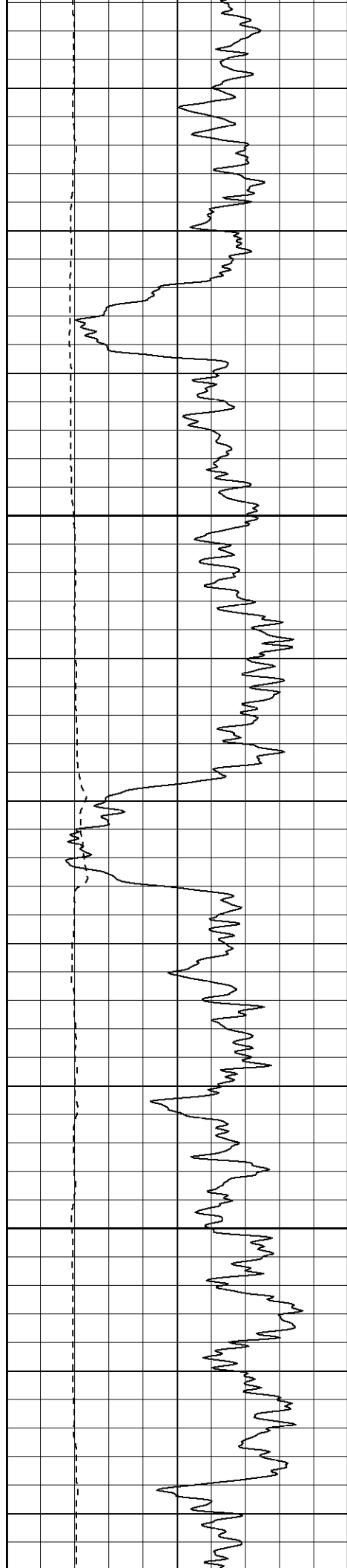


450

500

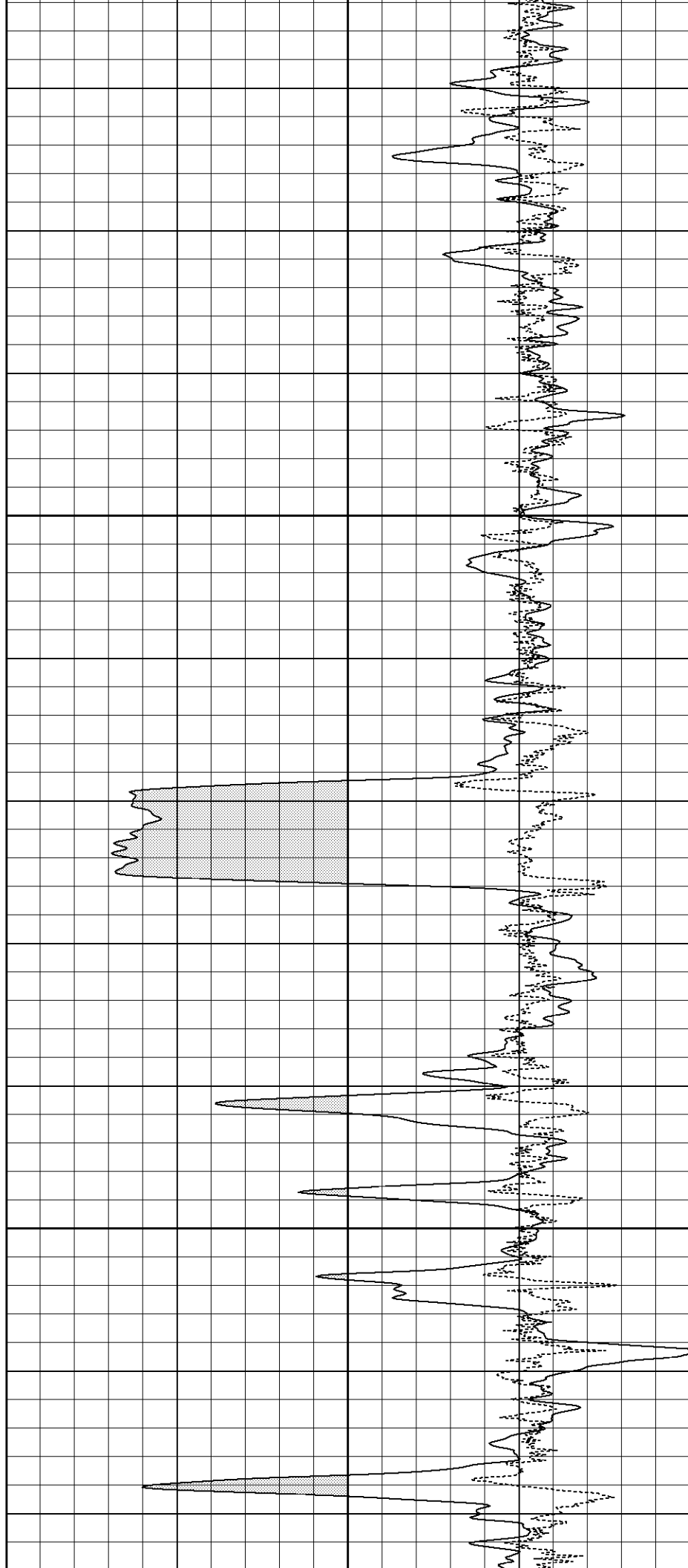


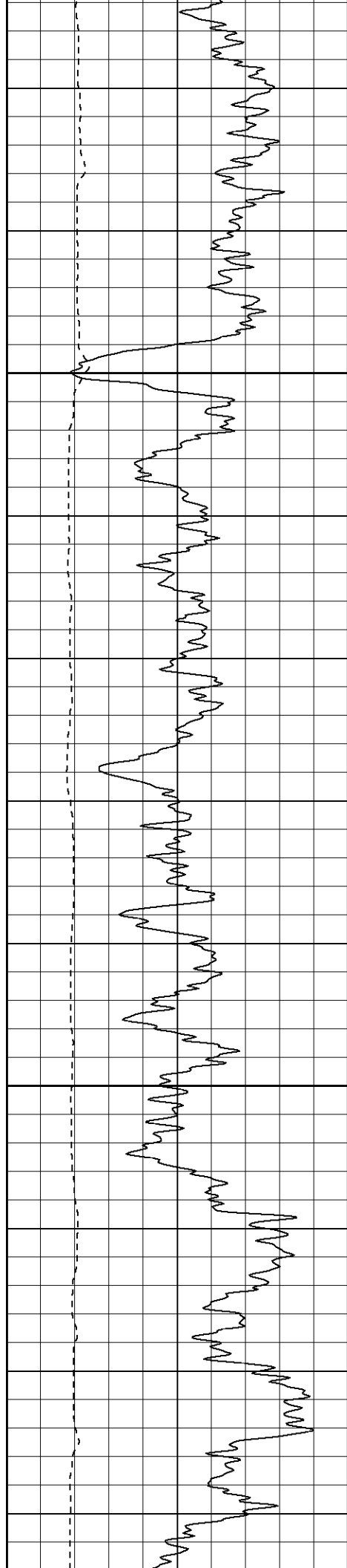




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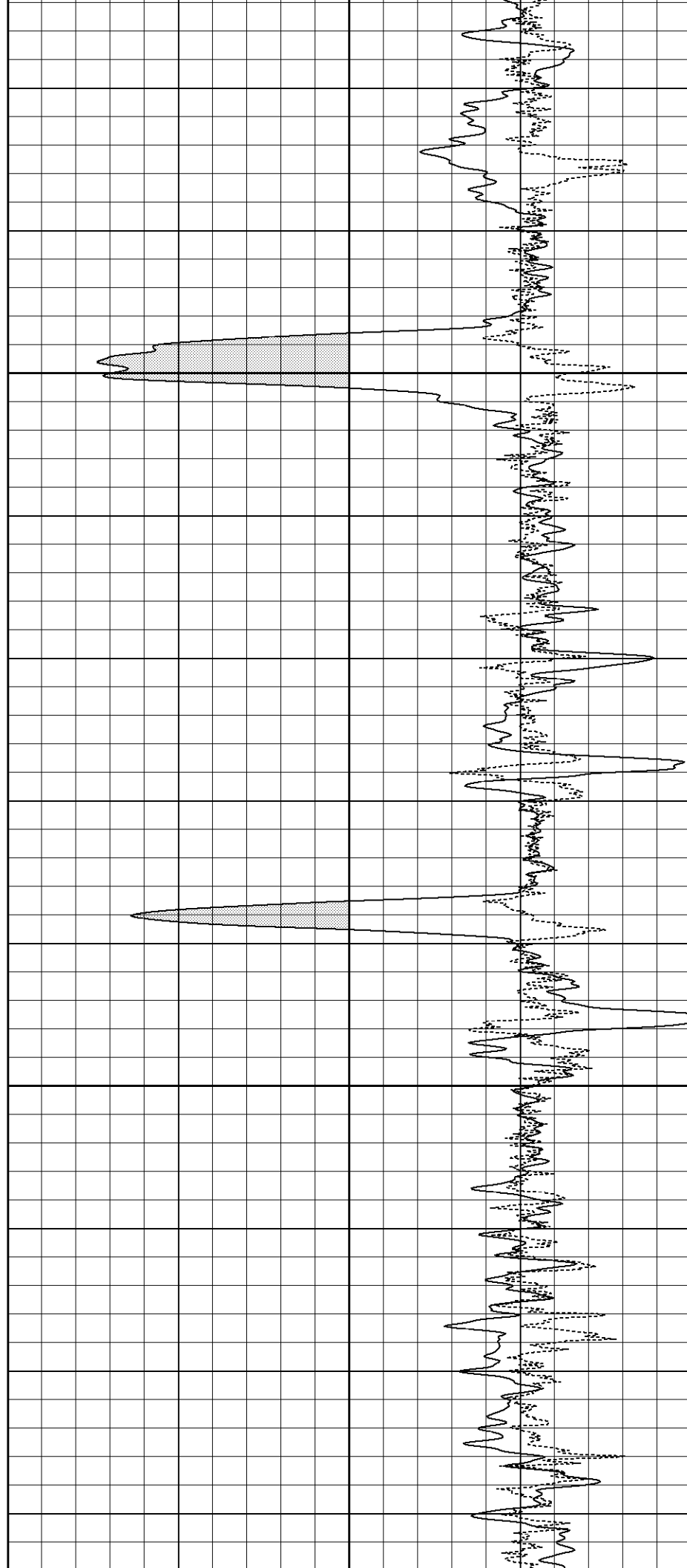
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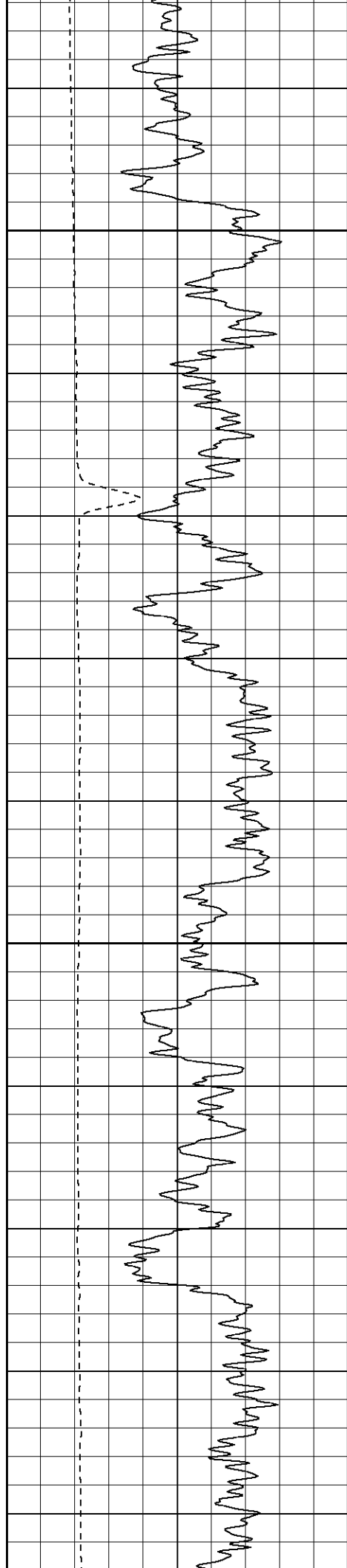




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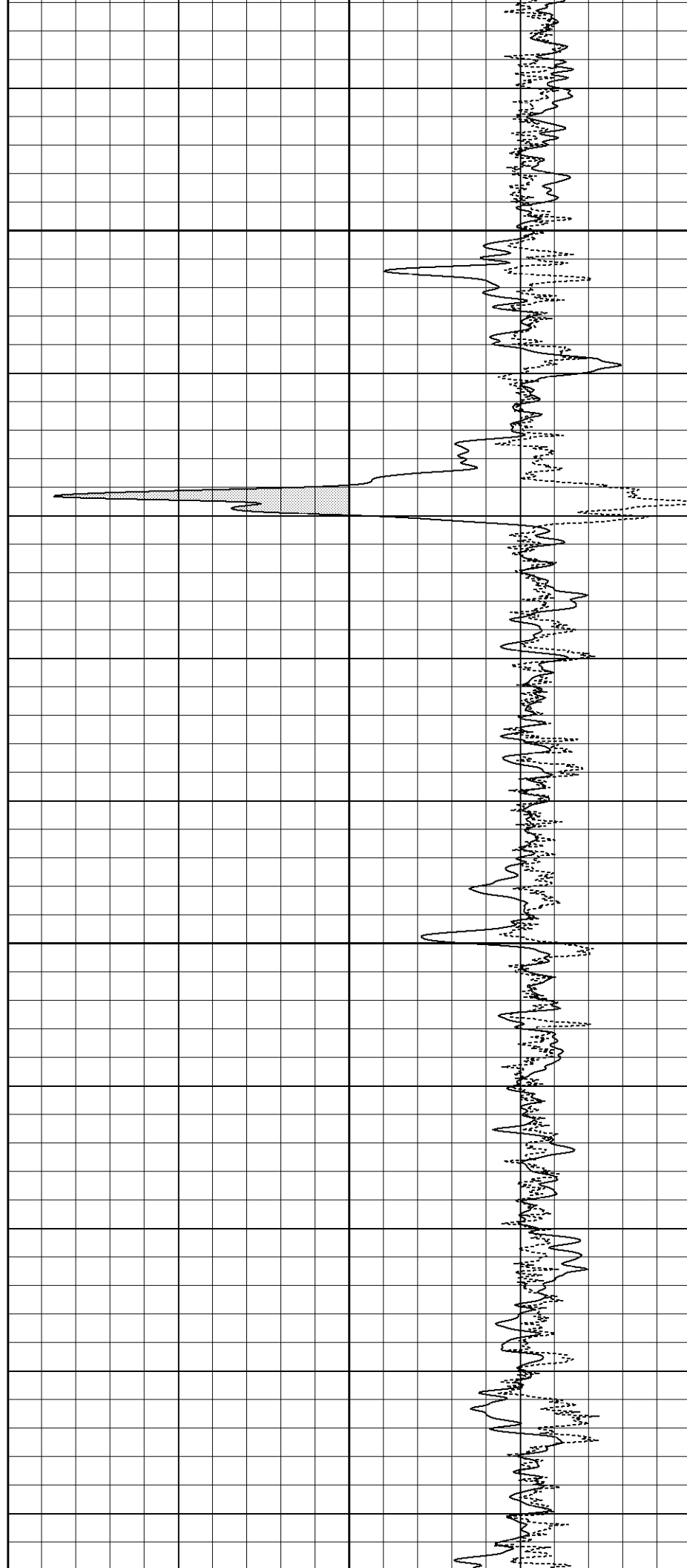
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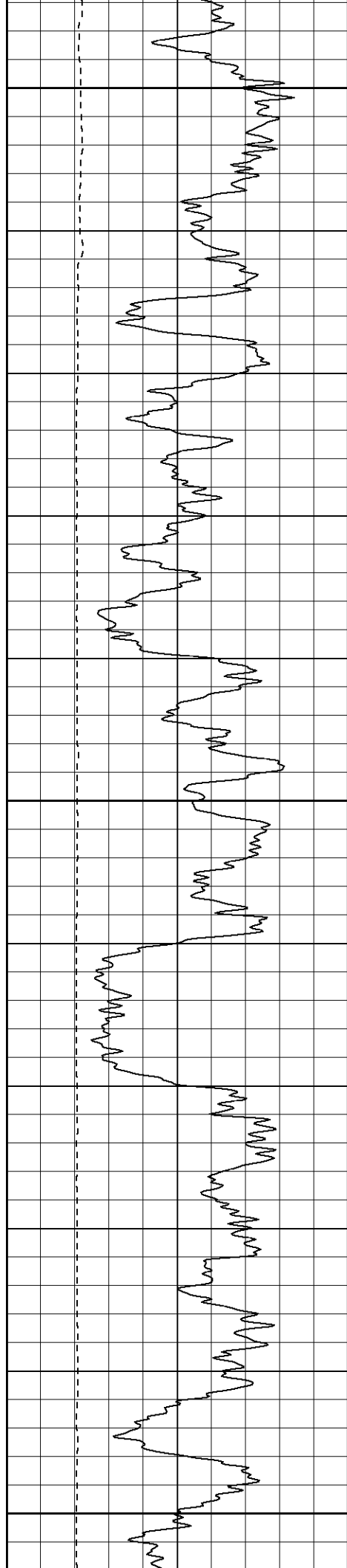




750

800

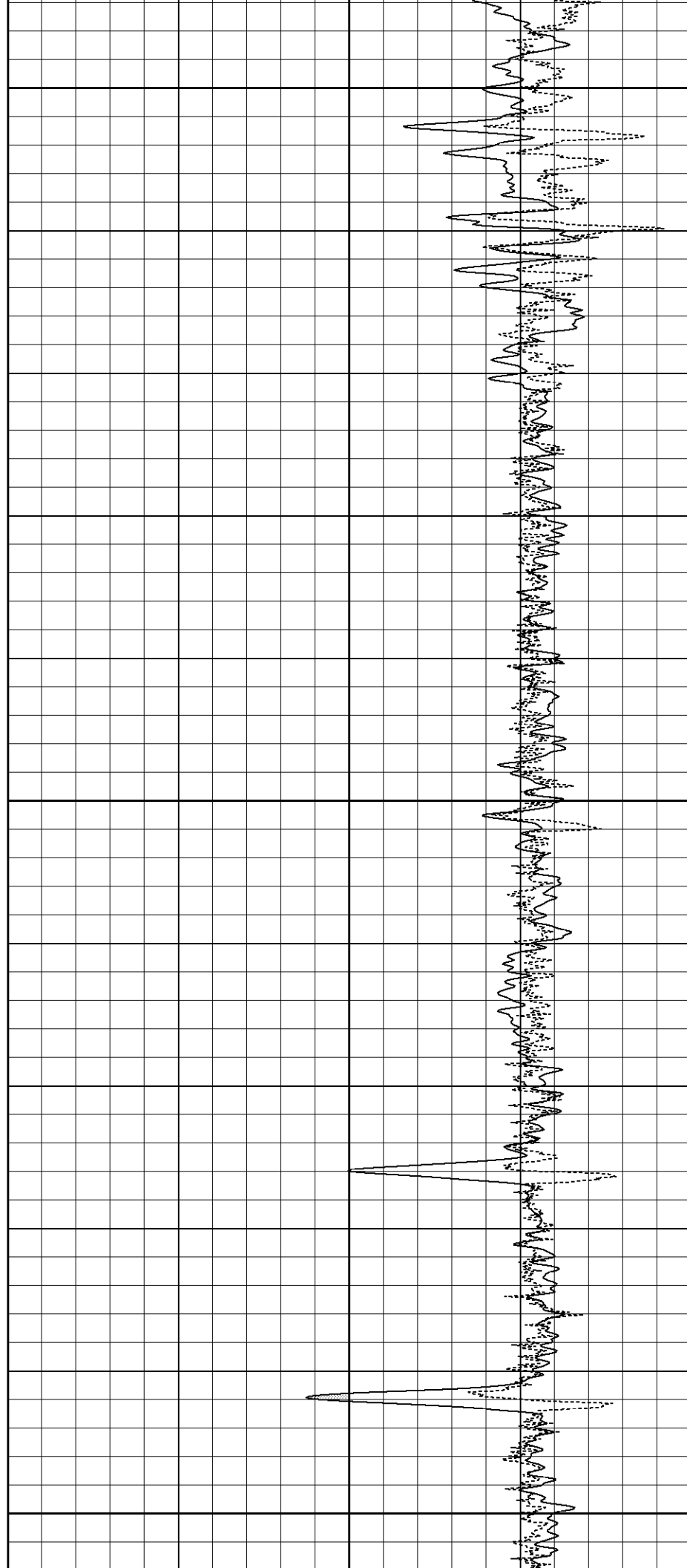


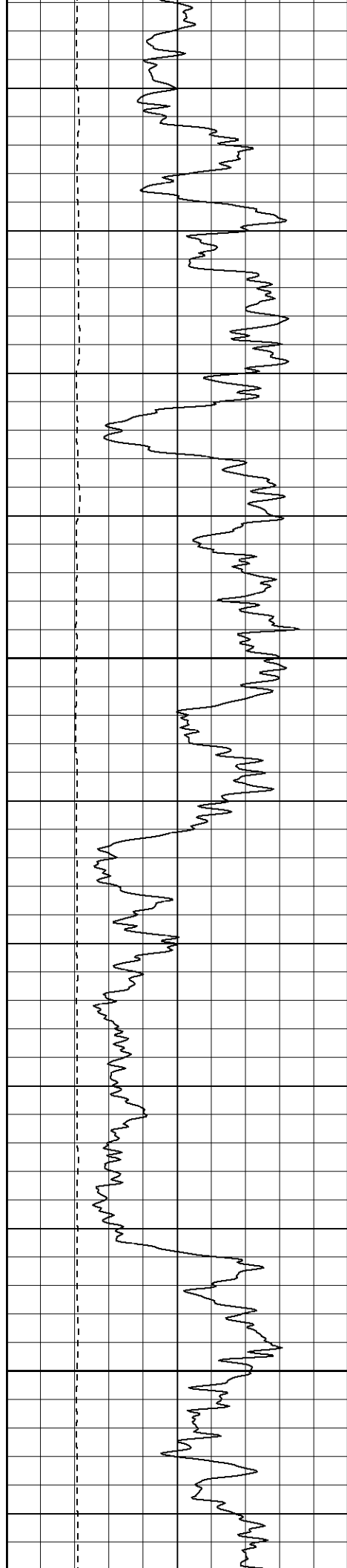


850

900

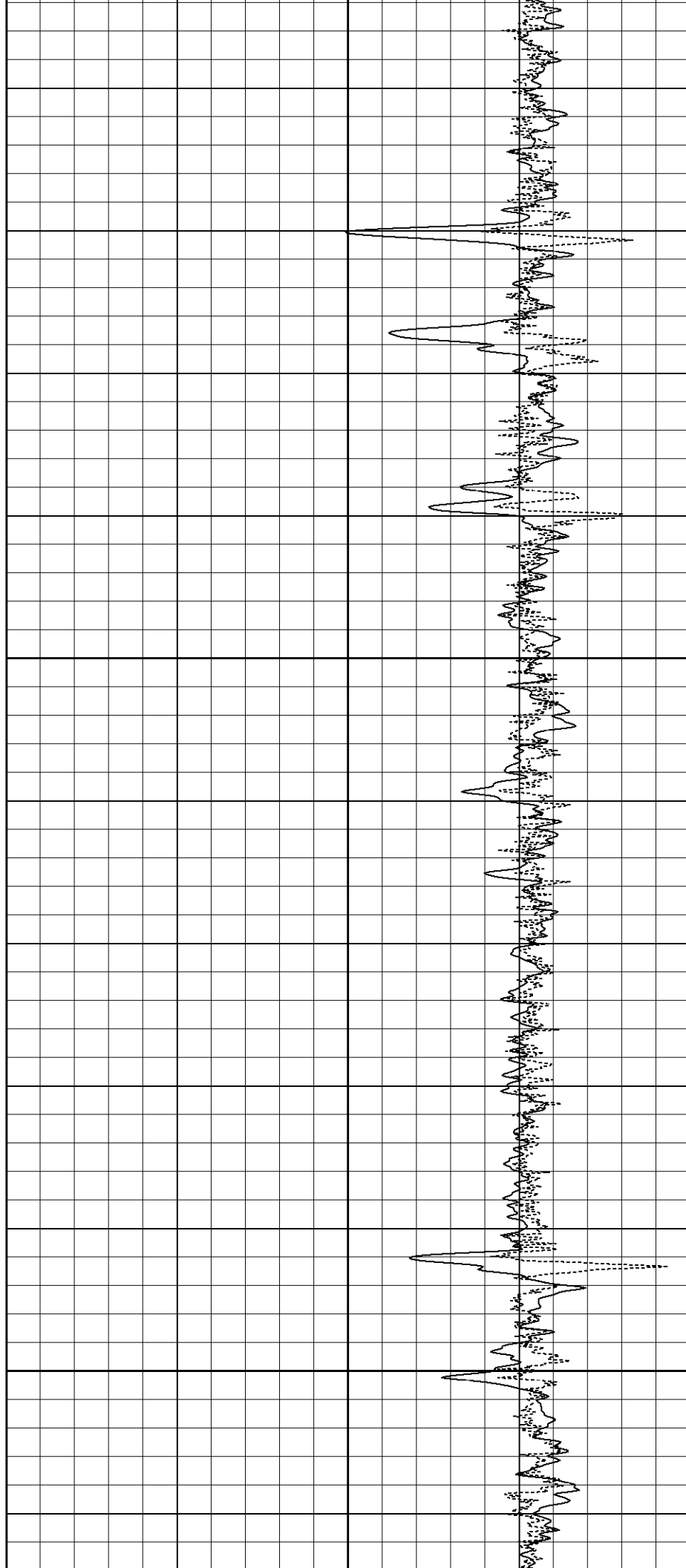
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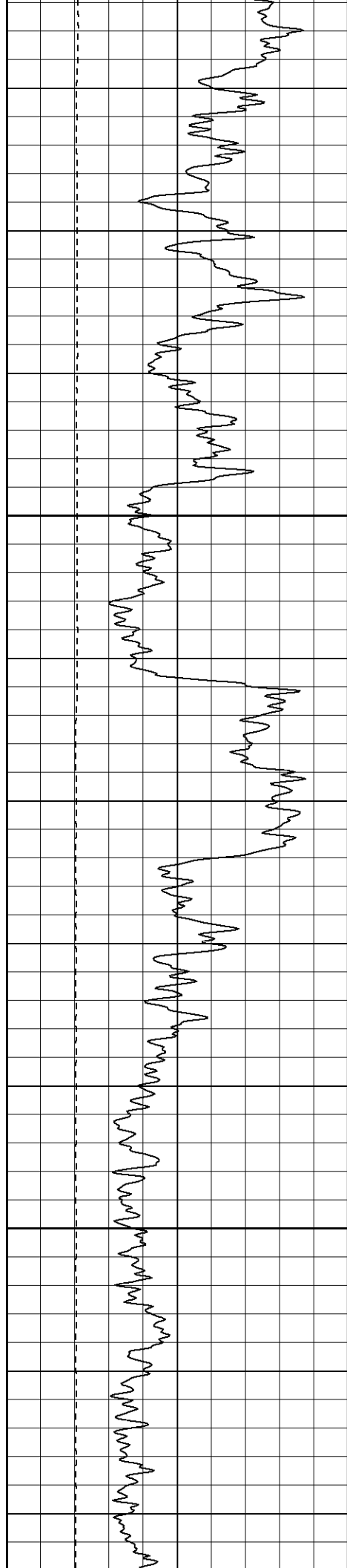




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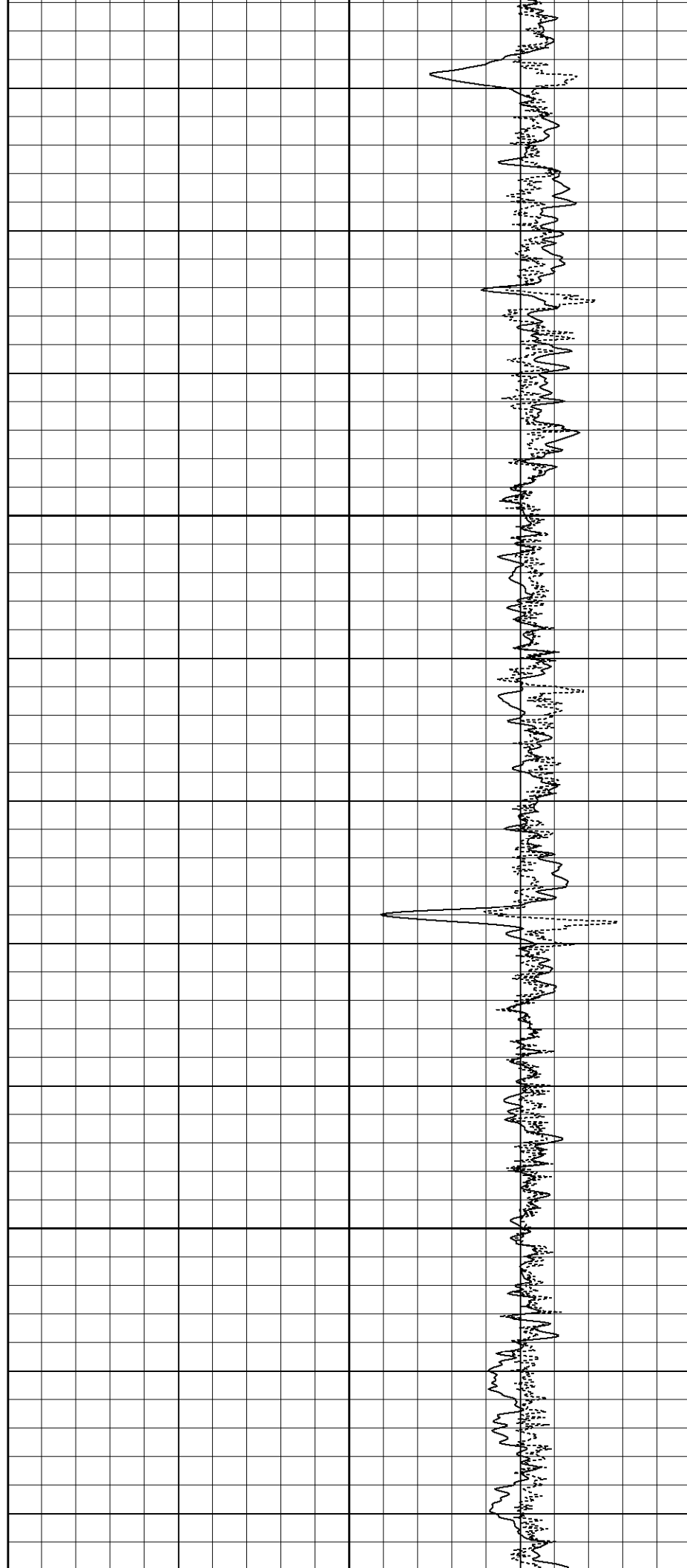
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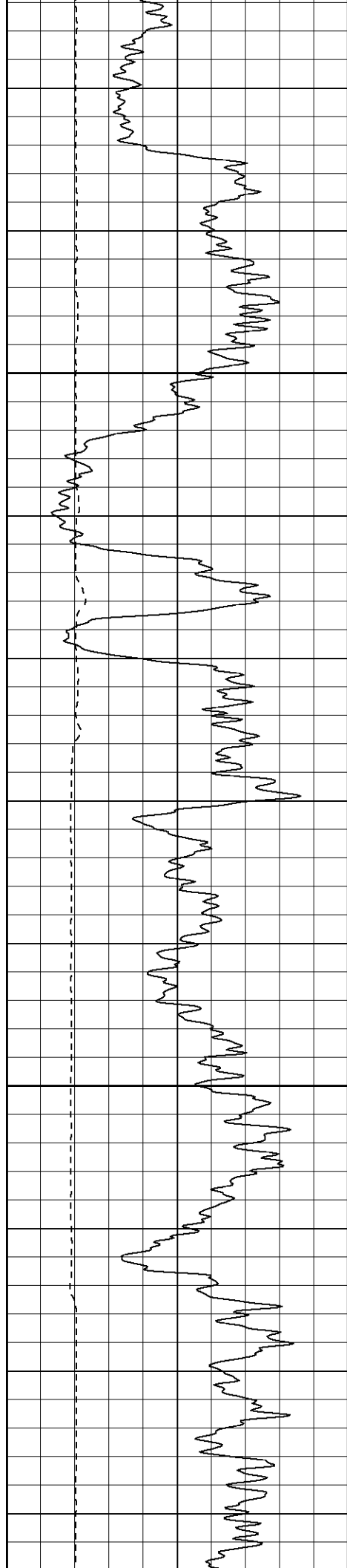




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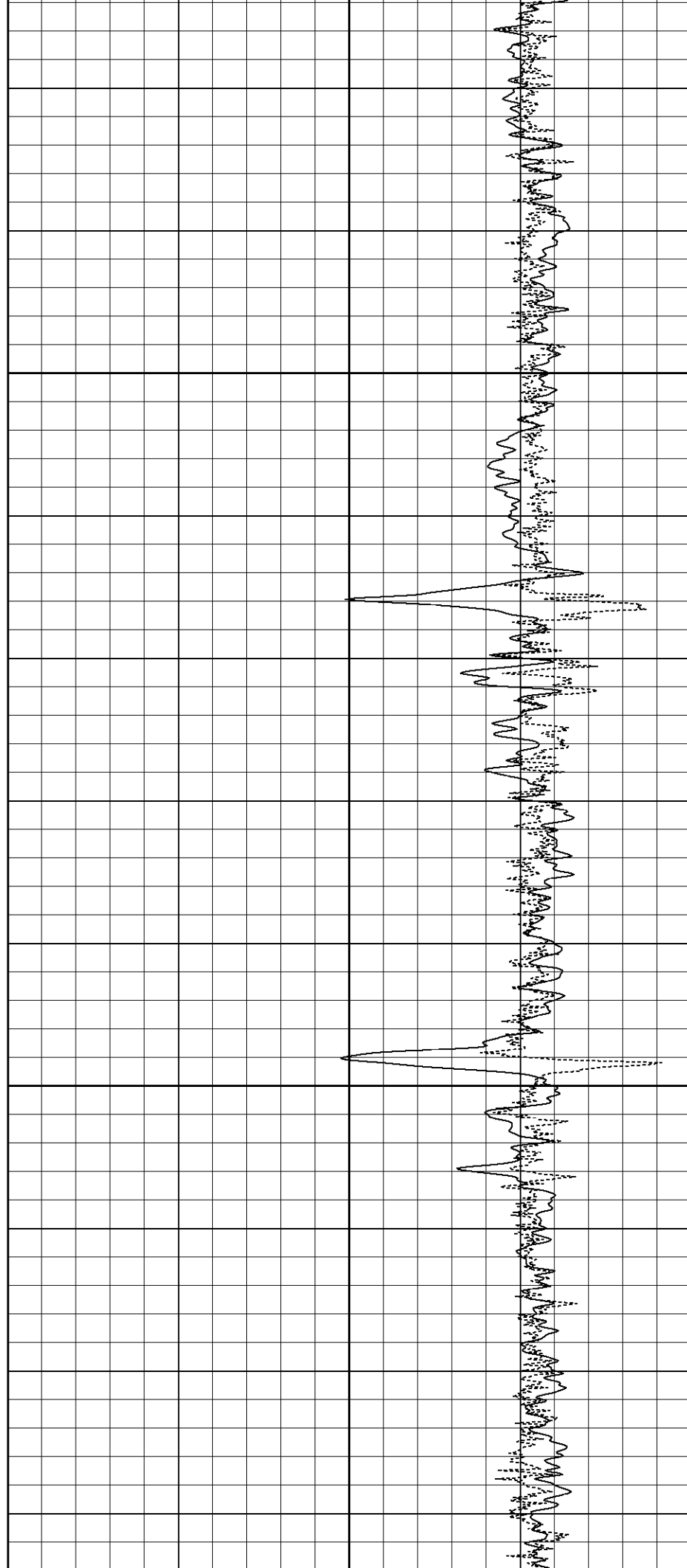
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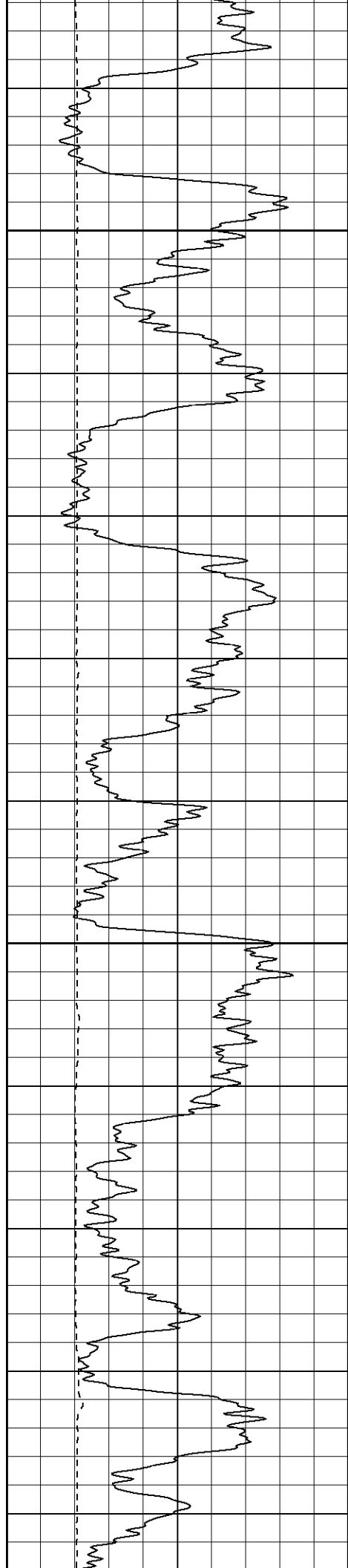




1200

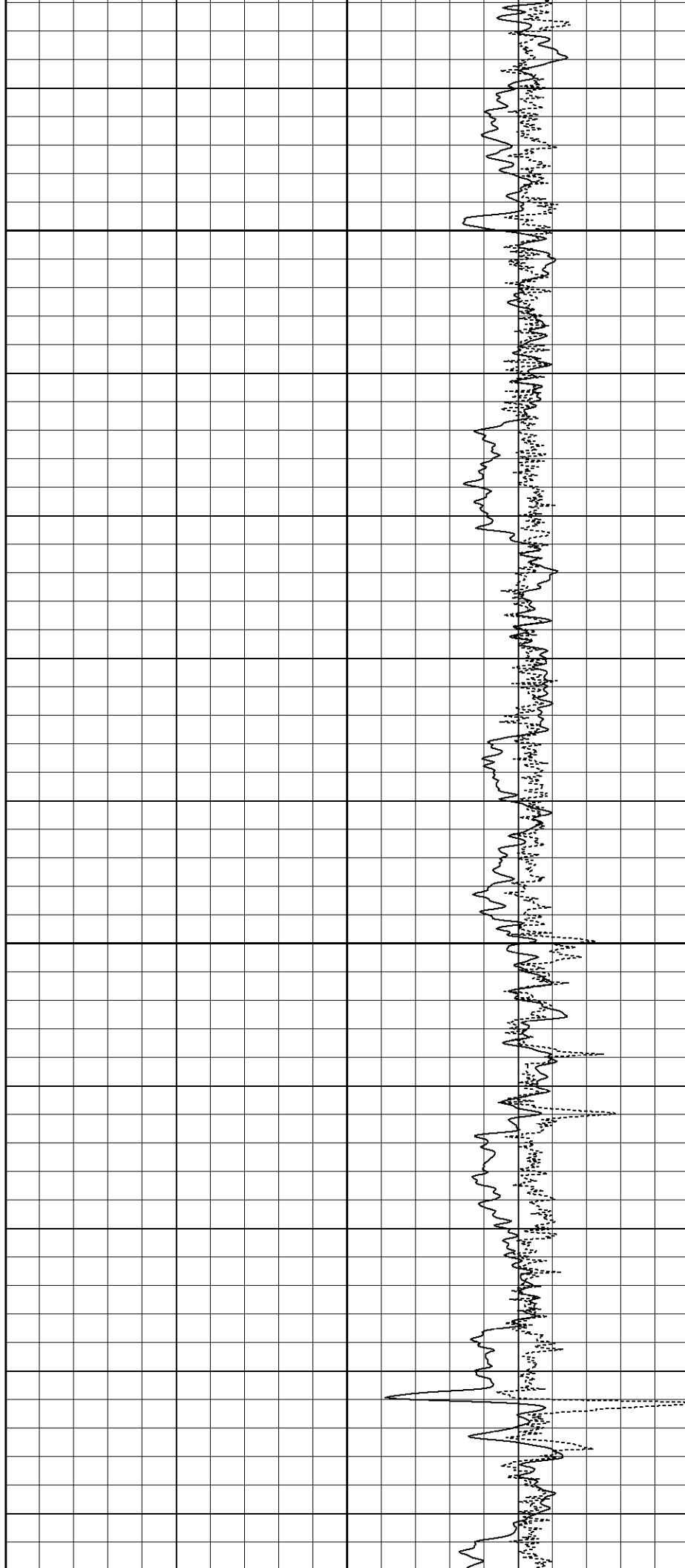
1250



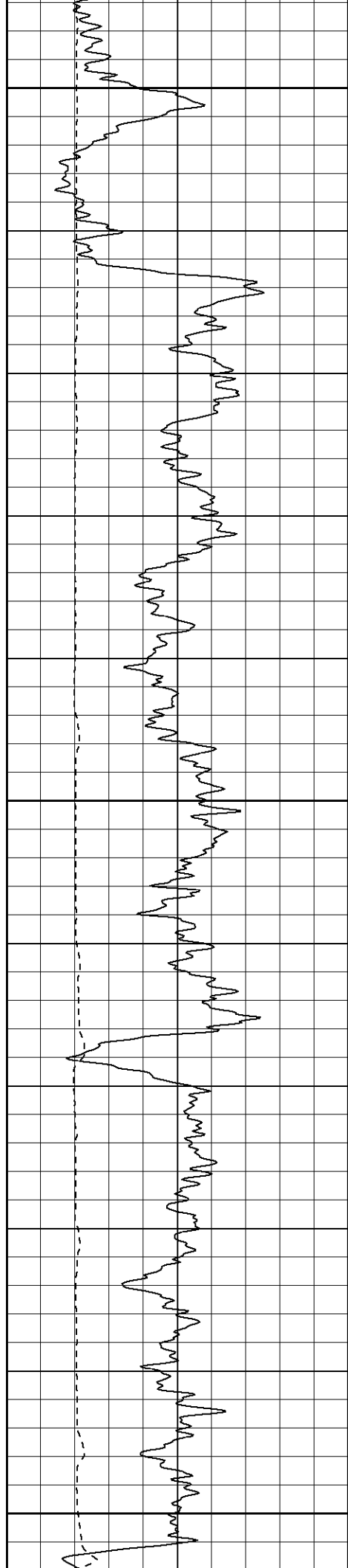


1300

1350



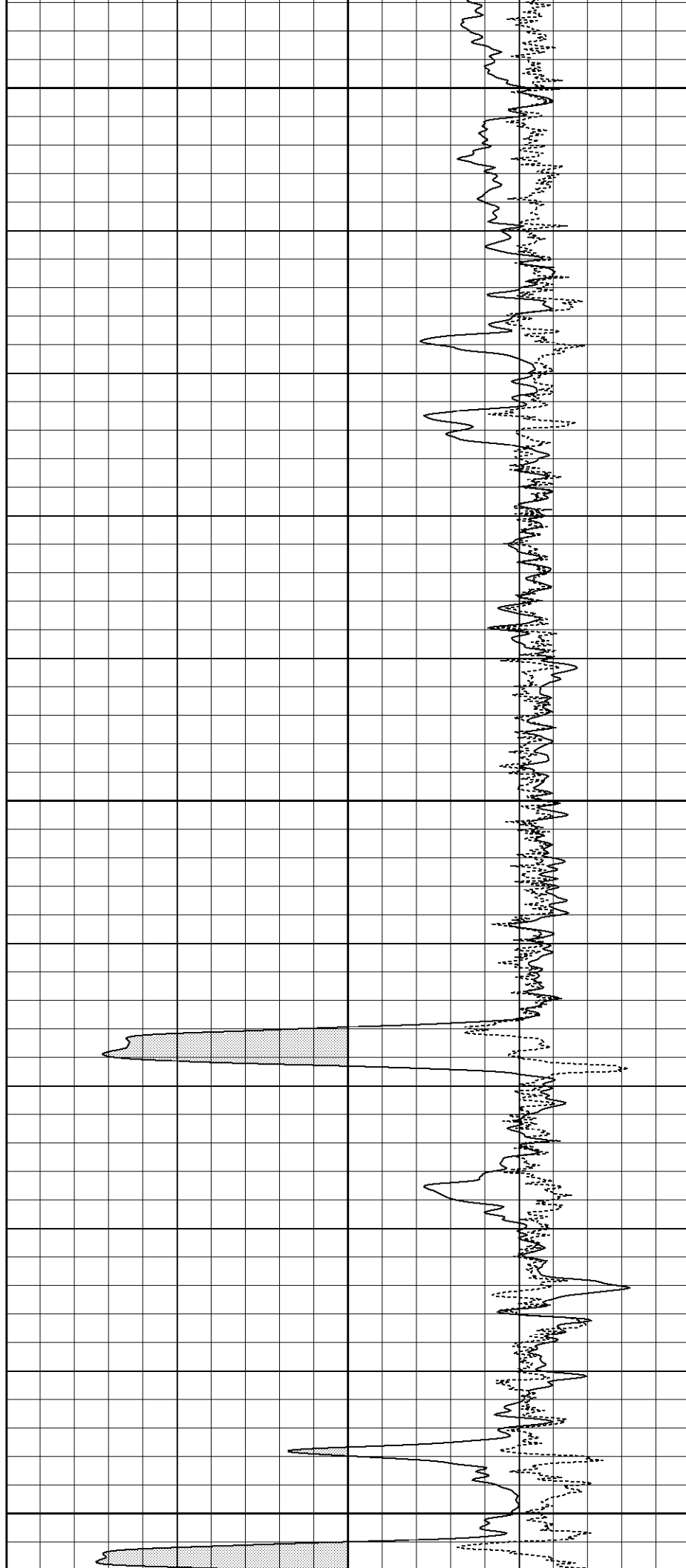


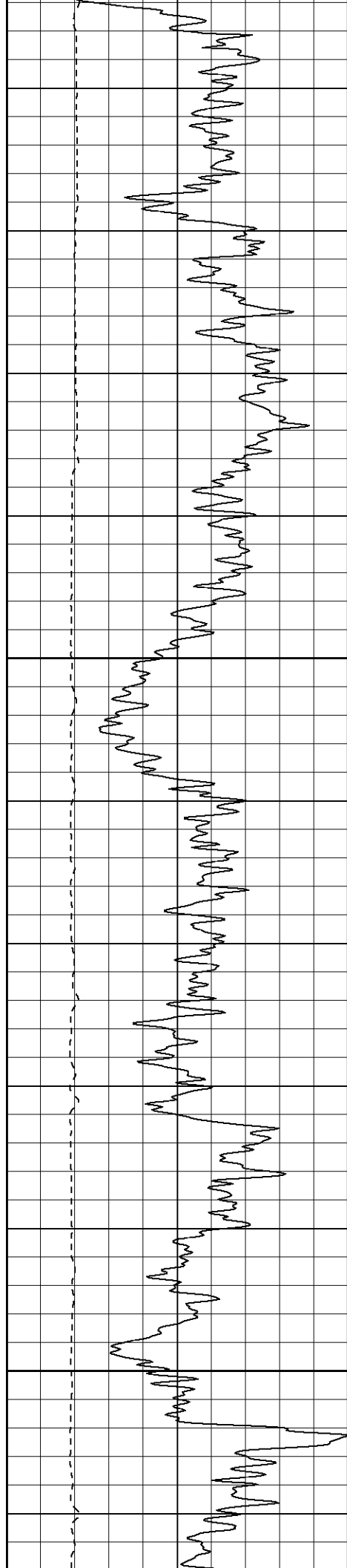


1400

1450

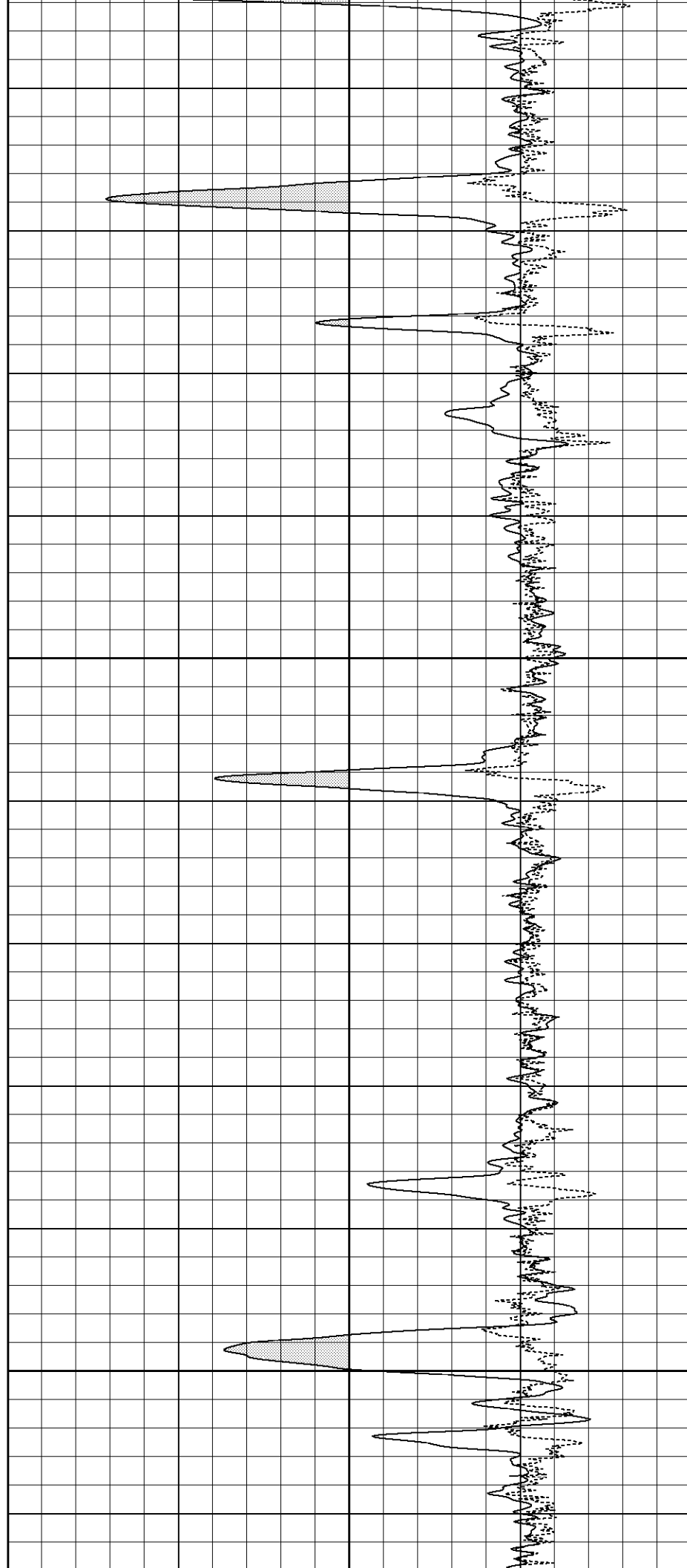
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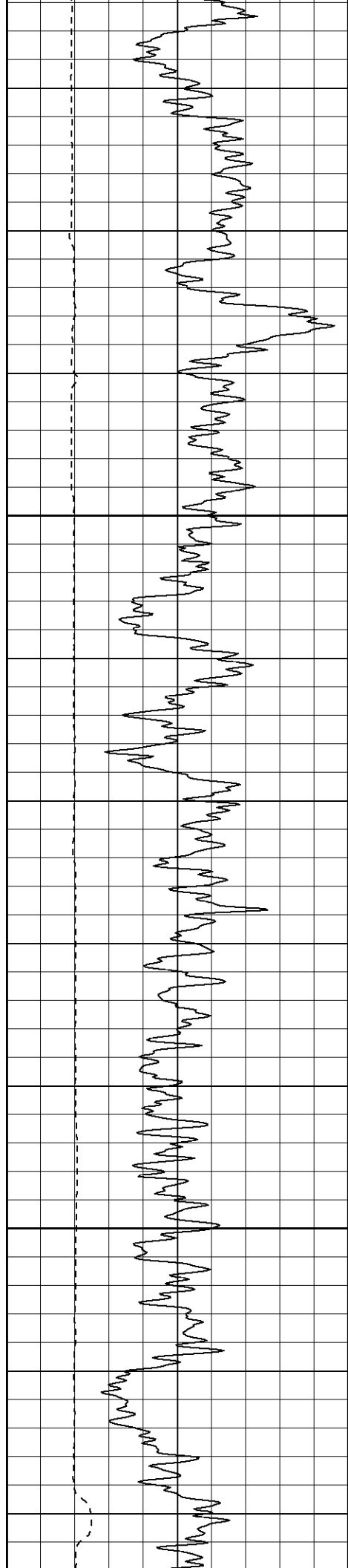




1550

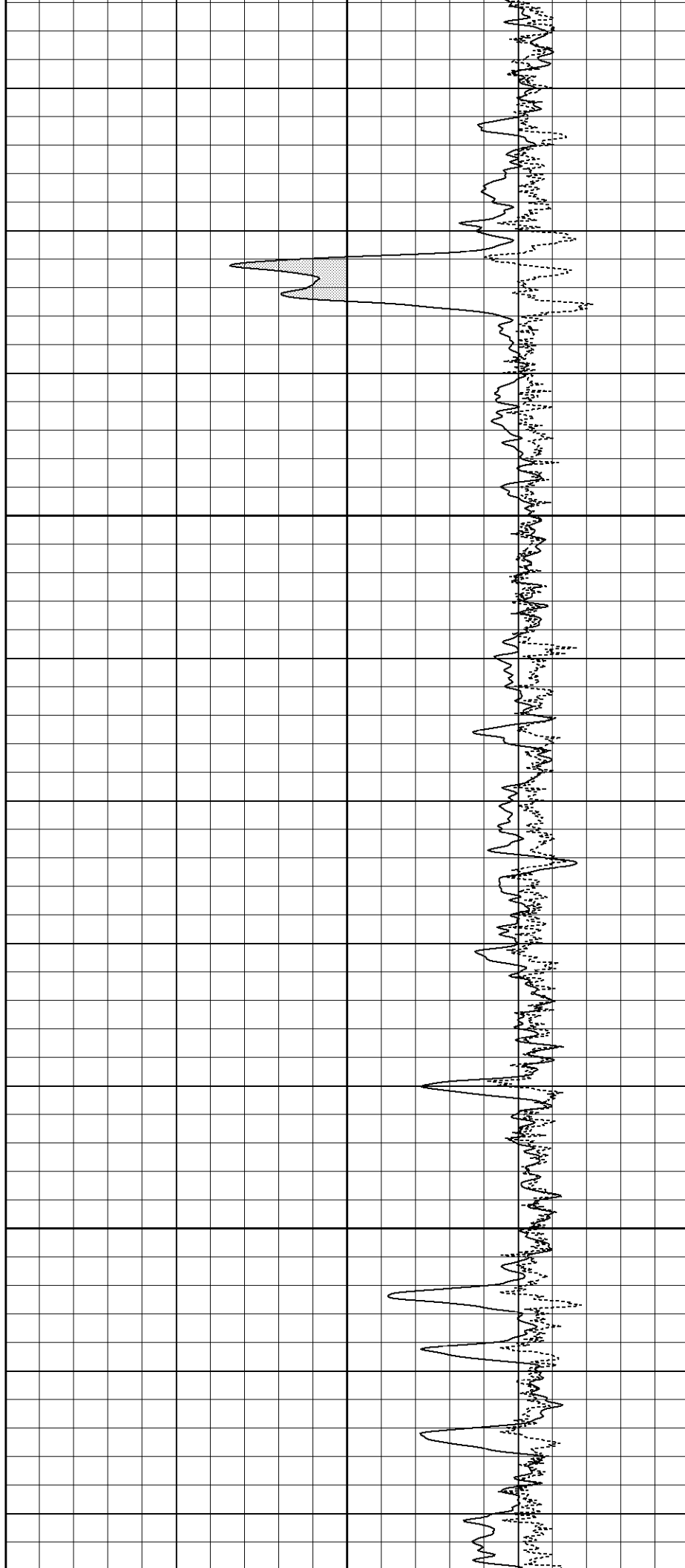
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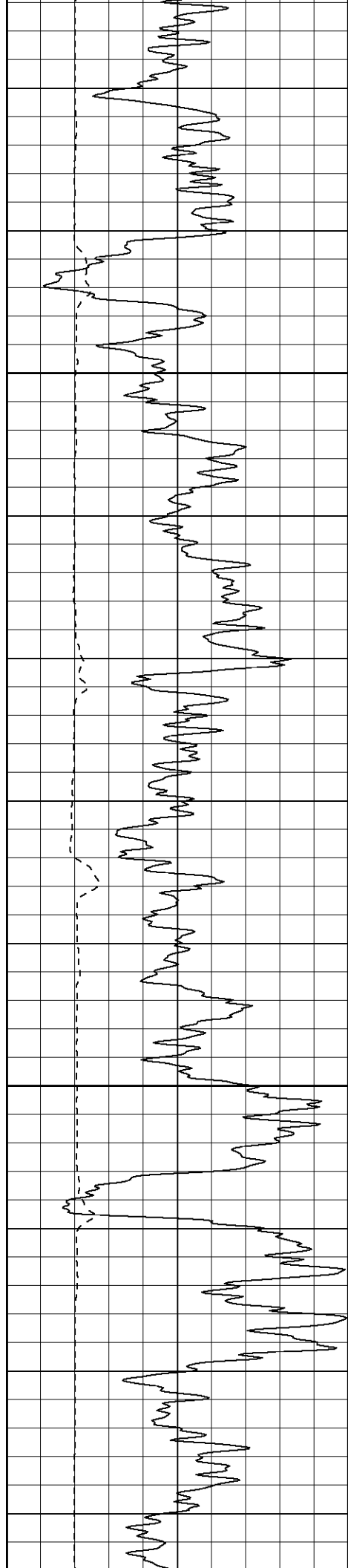




1650

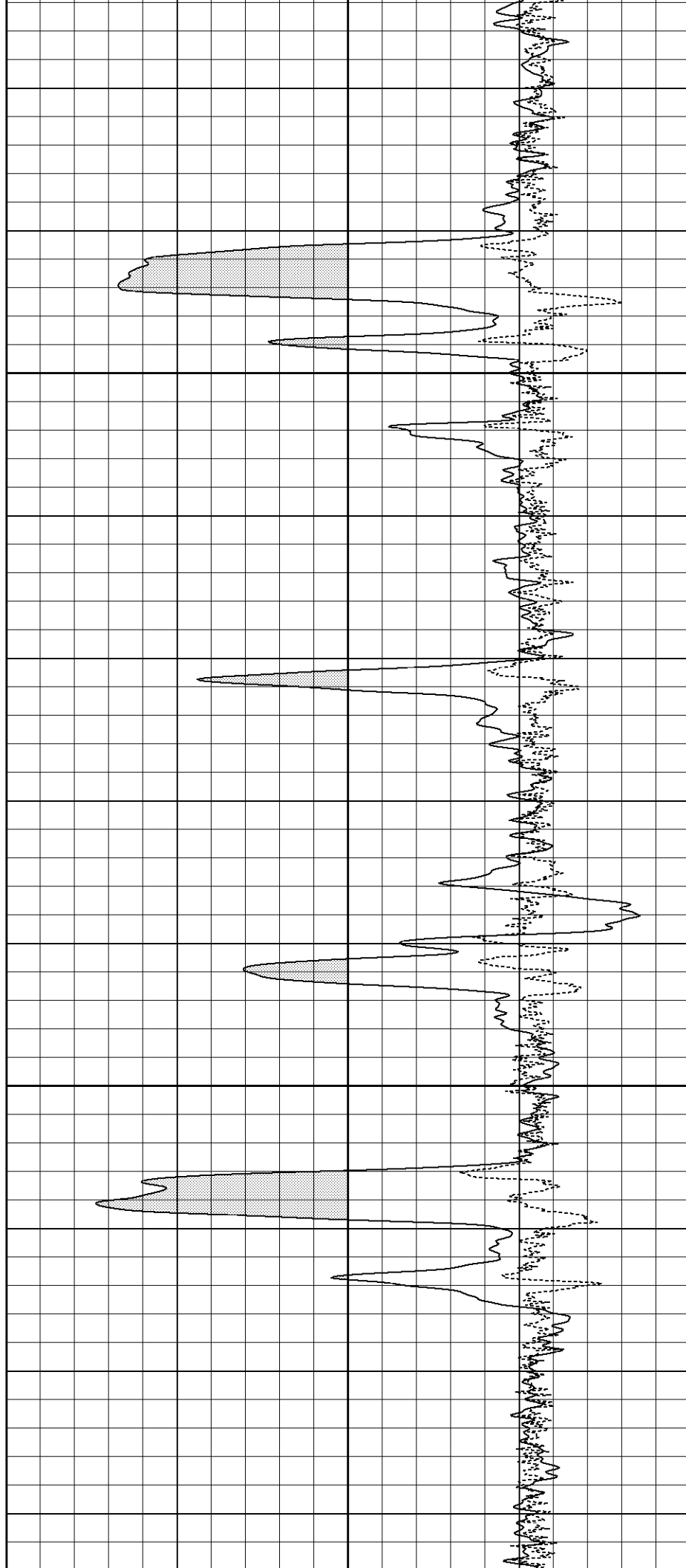
1700

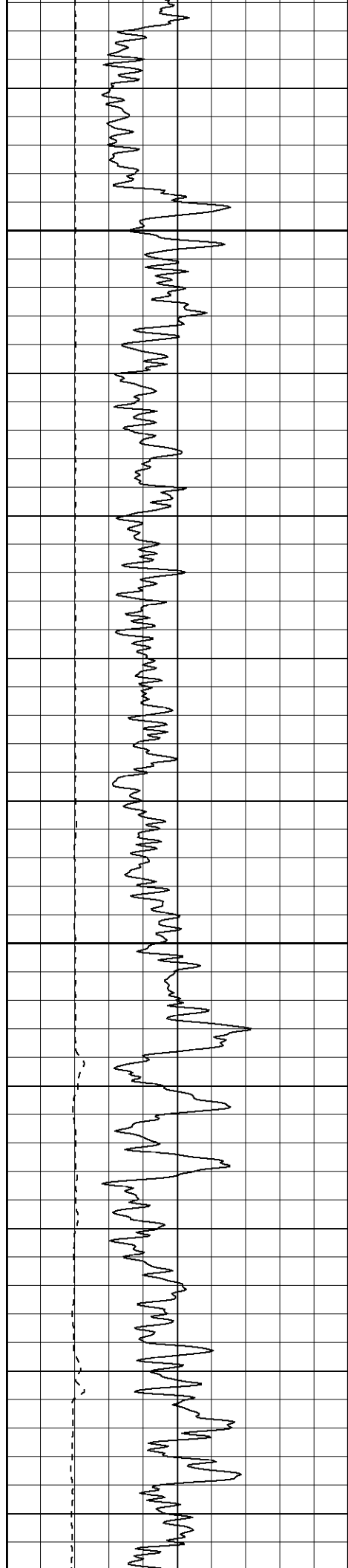




1750

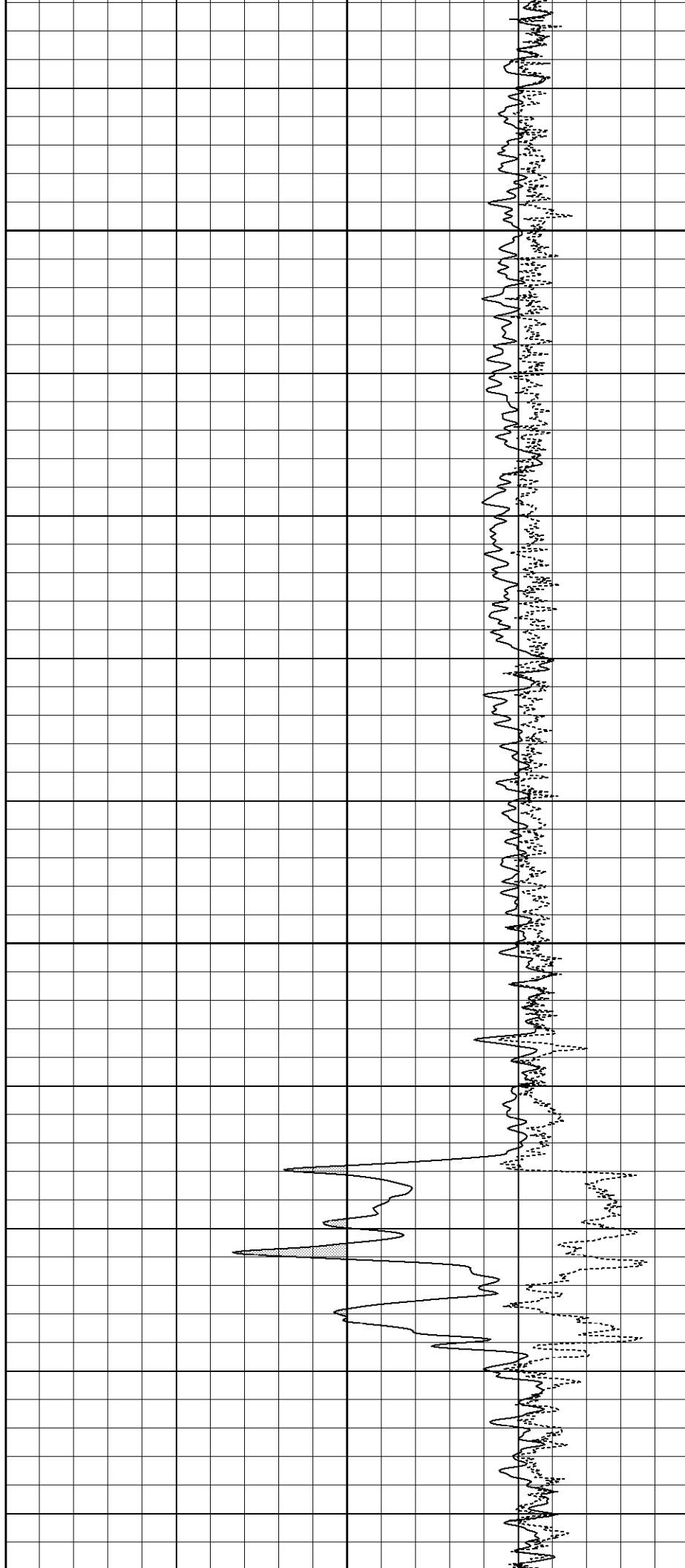
1800





1850

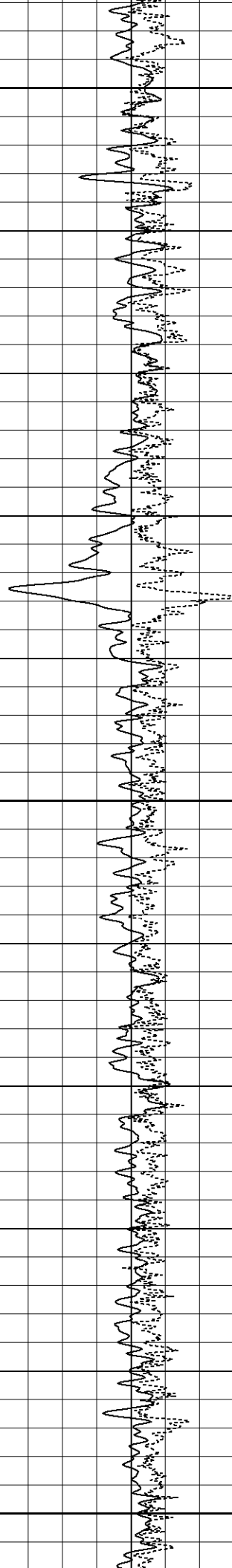
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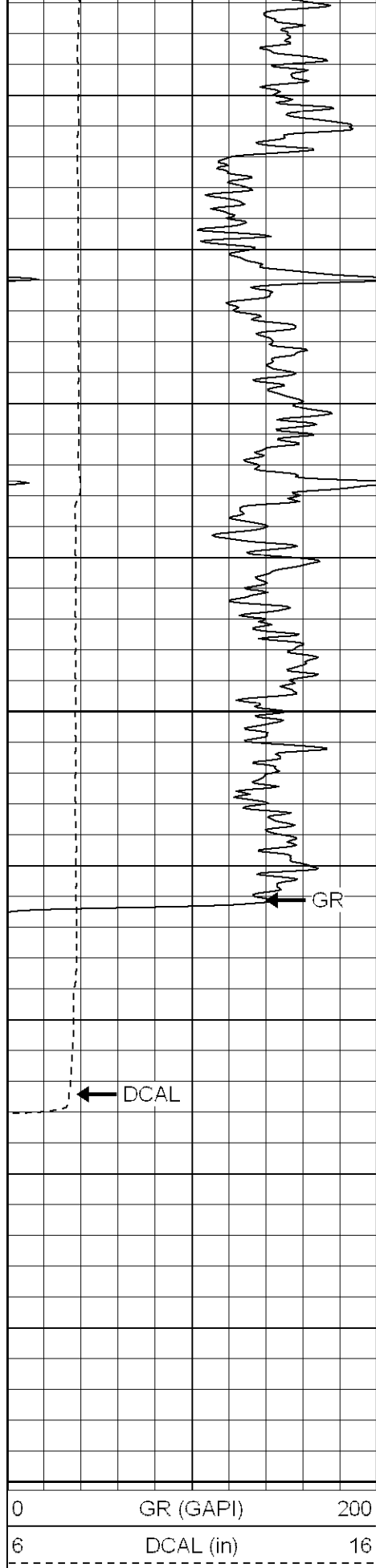


1950

2000

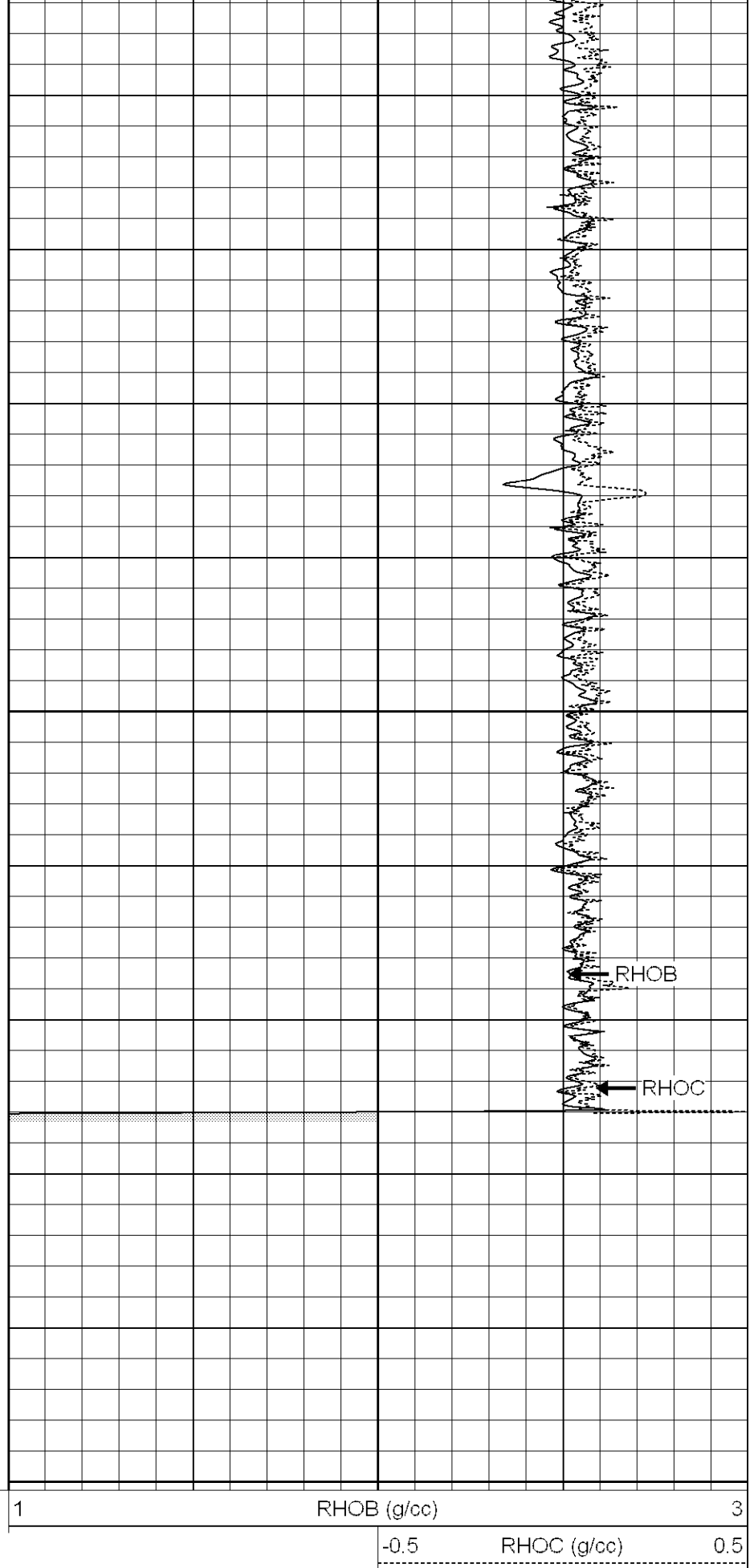
2050





2100

2150



Serial-Model:	5375-G
Surface Cal Performed:	Mon Feb 13 14:55:47 2006
Downhole Cal Performed:	Thu Mar 02 18:36:13 2006

### Compensated Density Calibration Report

Serial-Model:	902-2.75POH
Source / Verifier:	/
Master Calibration Performed:	Tue Feb 28 01:19:40 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	8.65	in	2.31	V	
Large Ring	17.00	in	4.47	V	

### Neutron Calibration Report

Serial Number:	802	
Tool Model:	2.75POH	
Performed:	Mon Feb 27 09:32:04 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



[illegible]