

Company Pioneer Natural Resources		Company Pioneer Natural Resources	
Well Olympian 13-31		Well Olympian 13-31	
Field Purgatoire River		Field Purgatoire River	
County Las Animas		County Las Animas	
State Colorado		State Colorado	
Location: API # : 05 071 08504 00		Other Services	
2375' FSL & 517' FWL		SIL	
SEC 31 TWP 31S RGE 65W		Elevation	
Permanent Datum	Ground Level	Elevation	7396'
Log Measured From	Kelly Bushing 4' Above G.L.	K.B. 7400'	
Drilling Measured From	Kelly Bushing	D.F. -----	
		G.L. 7396'	
Date	9-11-05		
Run Number	Two		
Depth Driller	2100'		
Depth Logger	2076'		
Bottom Logged Interval	2074'		
Top Log Interval	Surface		
Casing Driller	8 5/8" @ 852'		
Casing Logger	852'		
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	4:00 P.M.		
Time Logger on Bottom	7:20 P.M.		
Maximum Recorded Temperature	N/R		
Equipment Number	T720		
Location	Trinidad		
Recorded By	M. Norton		
Witnessed By	Mr. Jack Wiseman	Mr. Tommy Herring	

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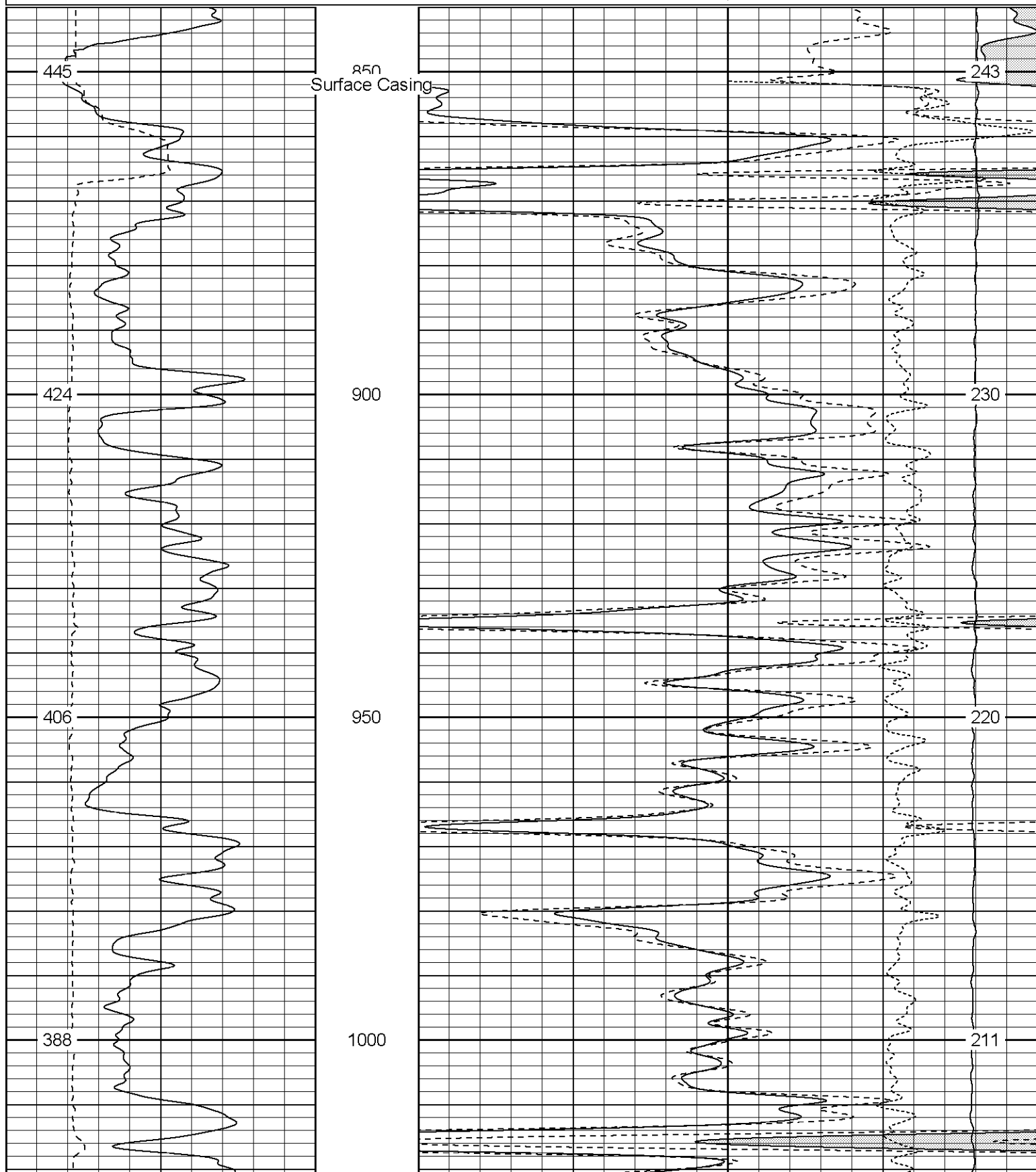
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

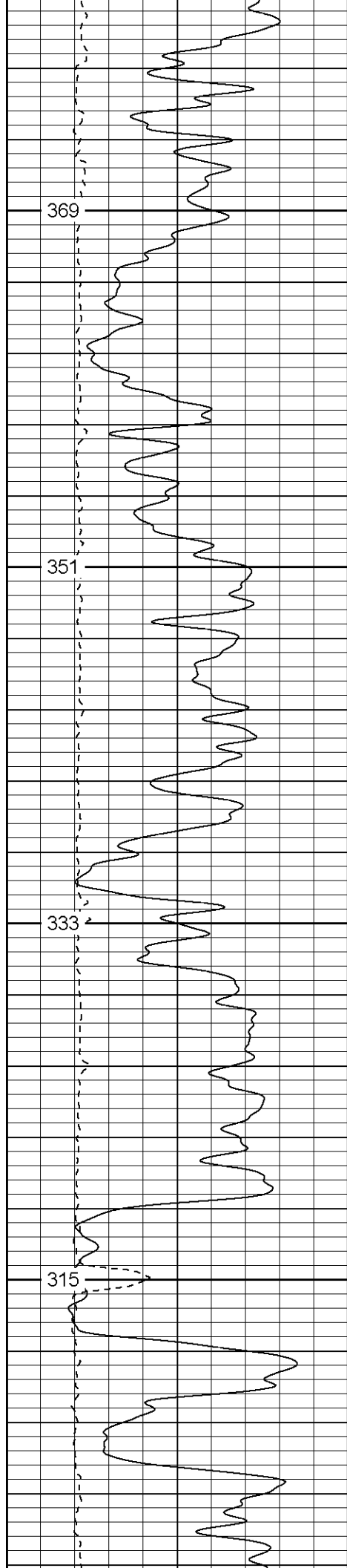
Comments

Neutron Density Porosity Presented On Sandstone Matrix.  
ABHV Calculated For 5 1/2" Casing.  
Well Directions:  
Ludlow At Y Stay Left, County Road 51.0, First Location On The Right.  
Neutron Porosity Invalid From 1424' To 1284' Due To Foam.

Database File: olympian.db  
Dataset Pathname: pass4.1  
Presentation Format: cdl  
Dataset Creation: Sun Sep 11 20:36:20 2005 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		



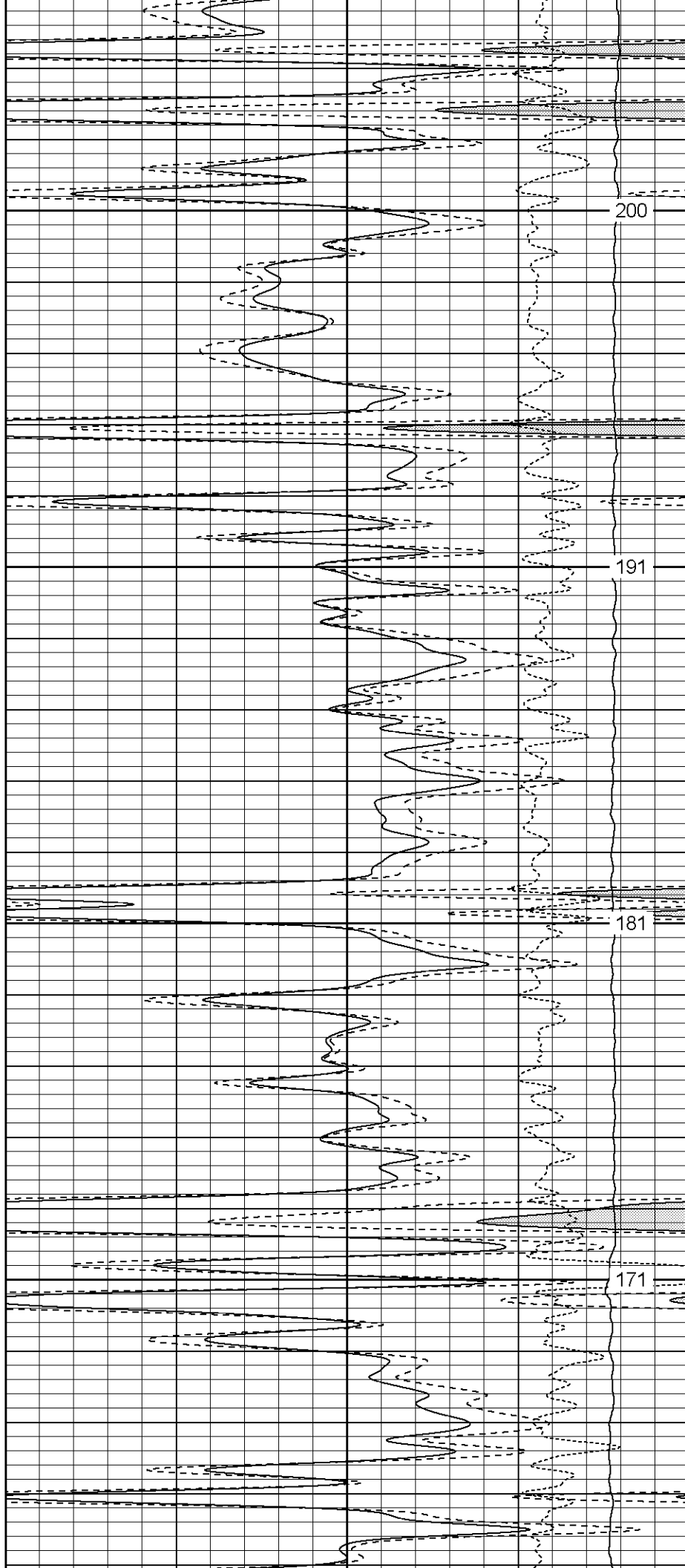


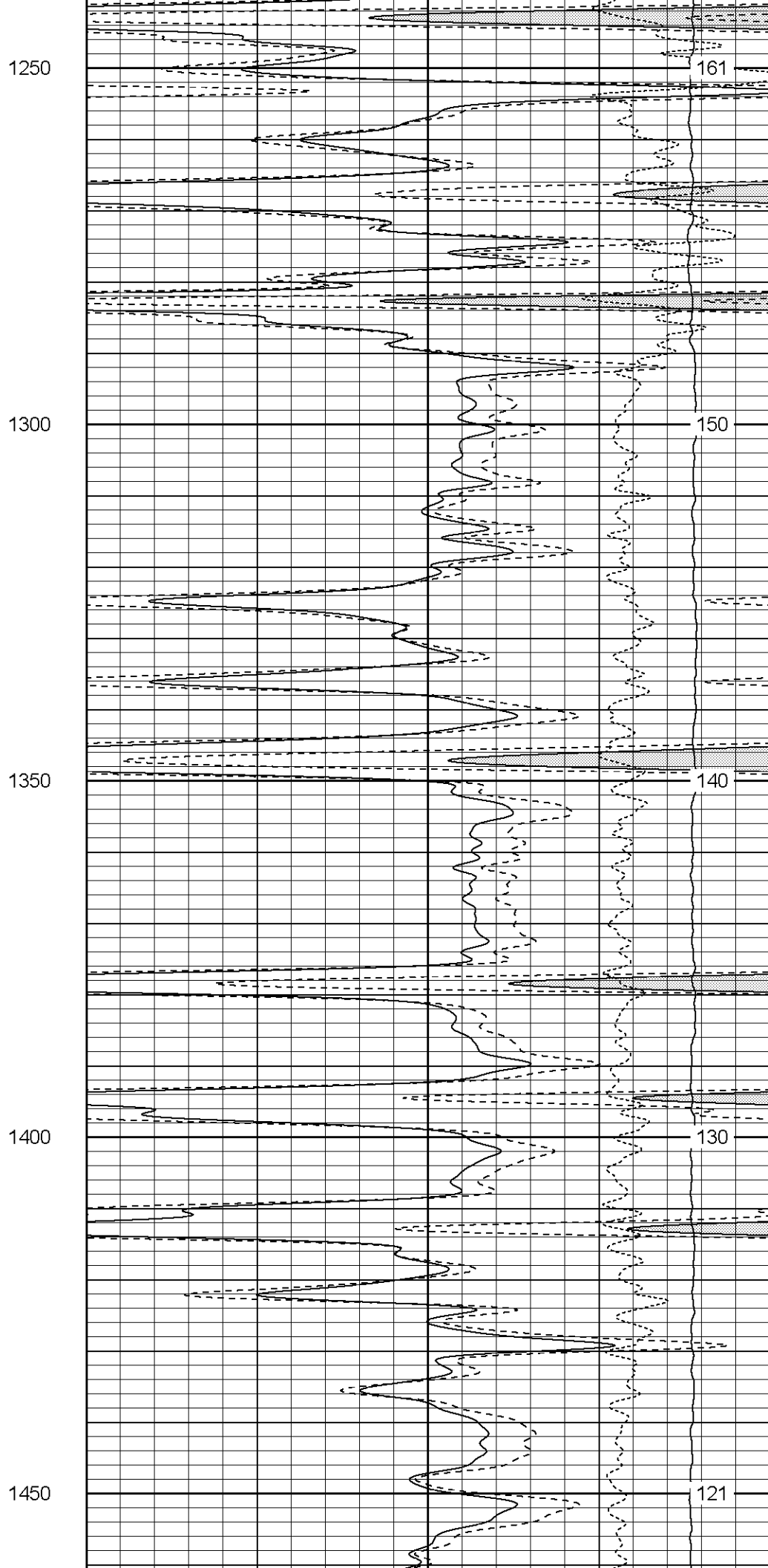
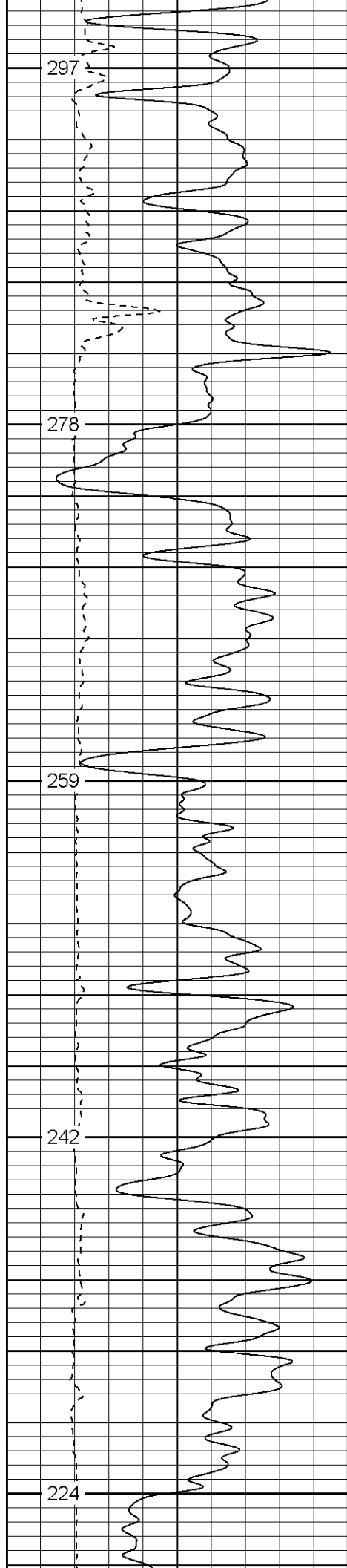
1050

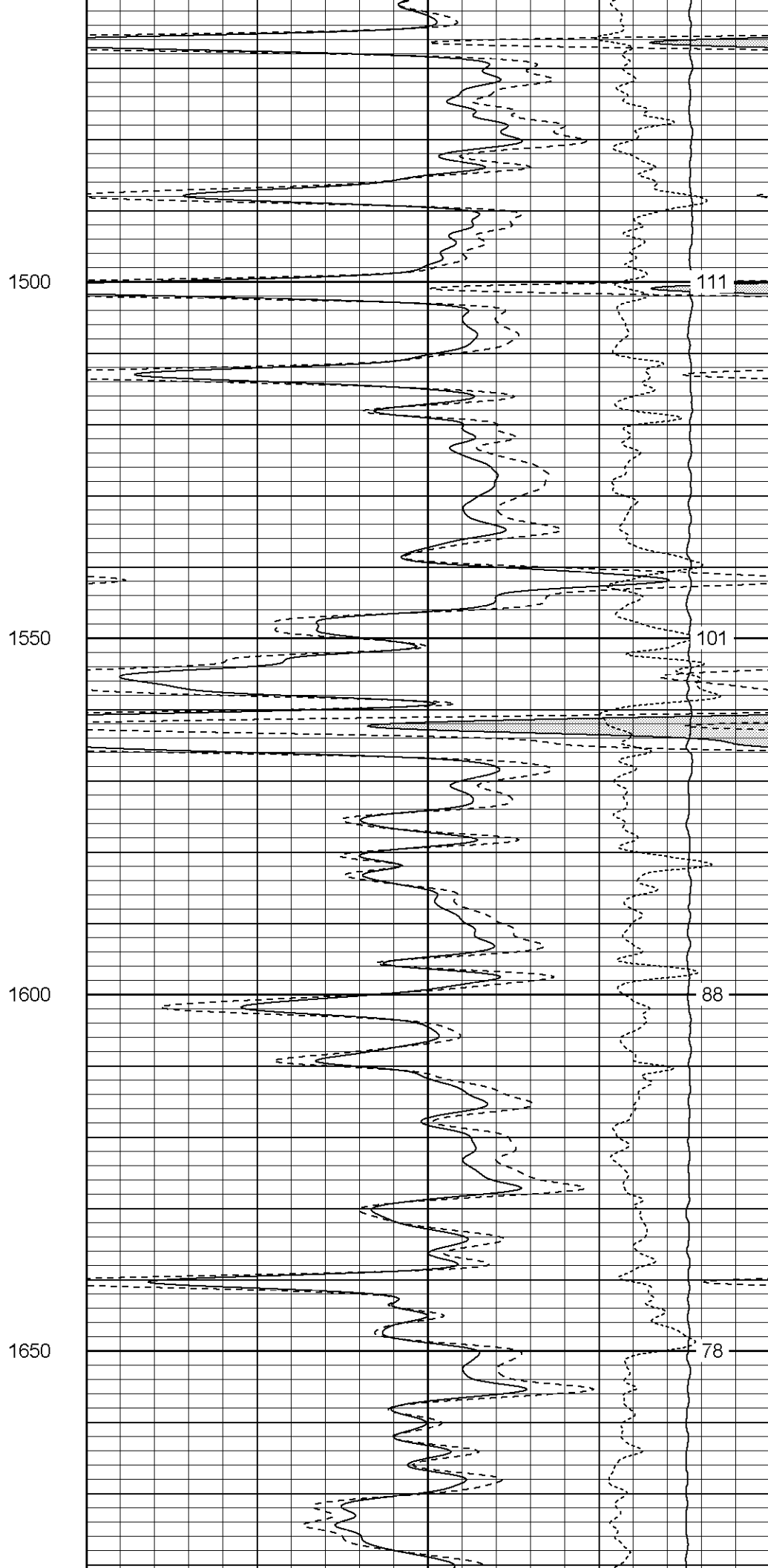
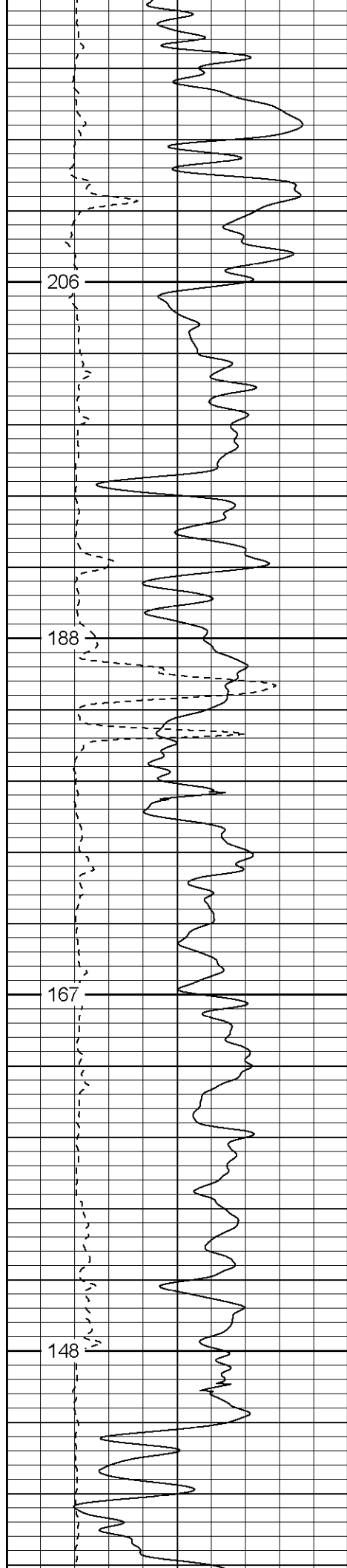
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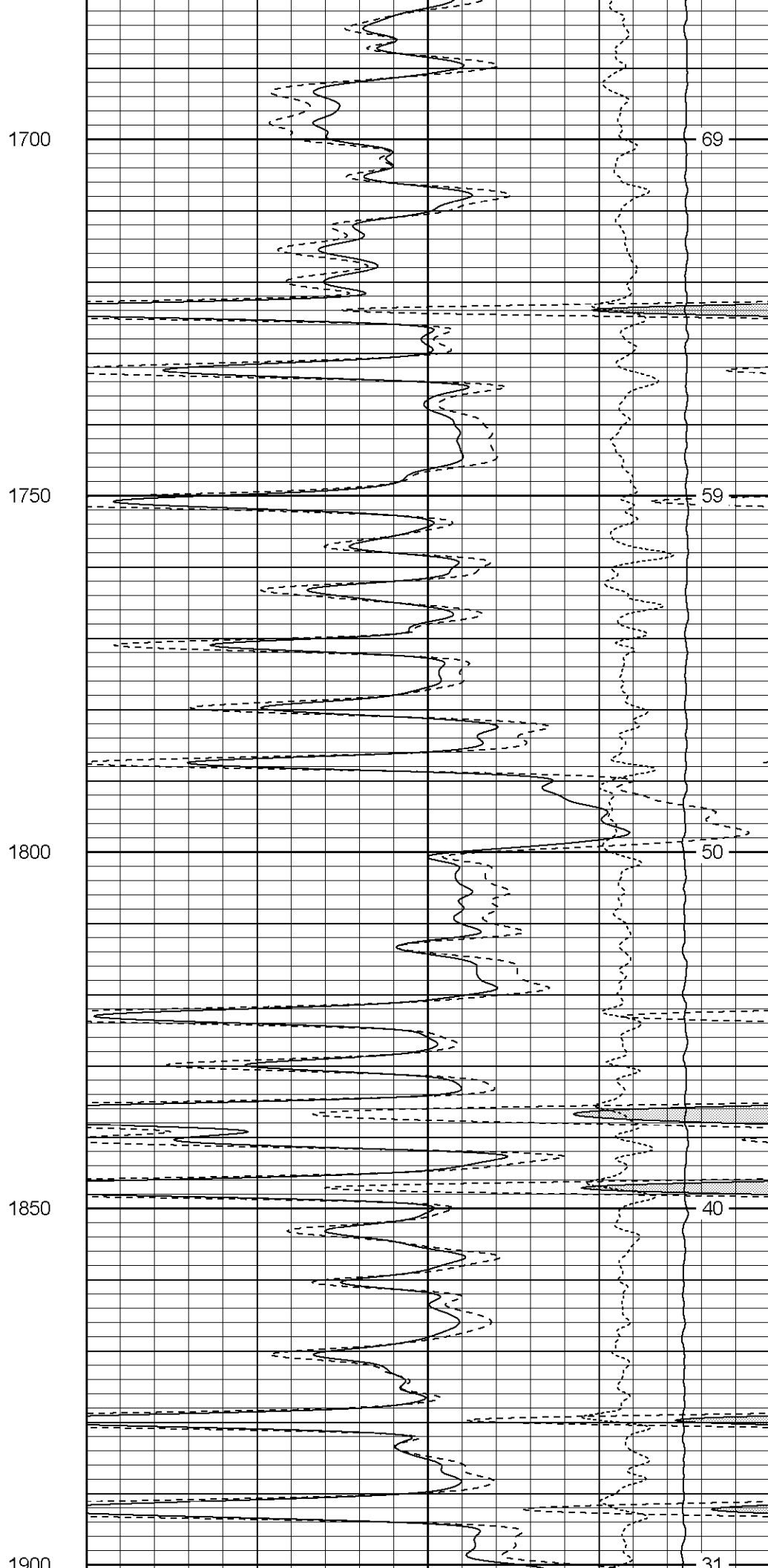
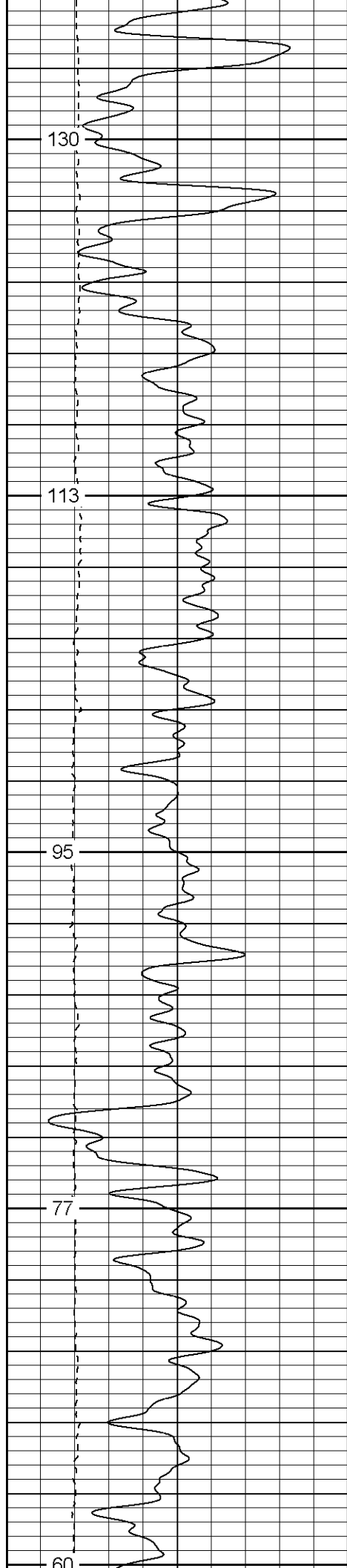
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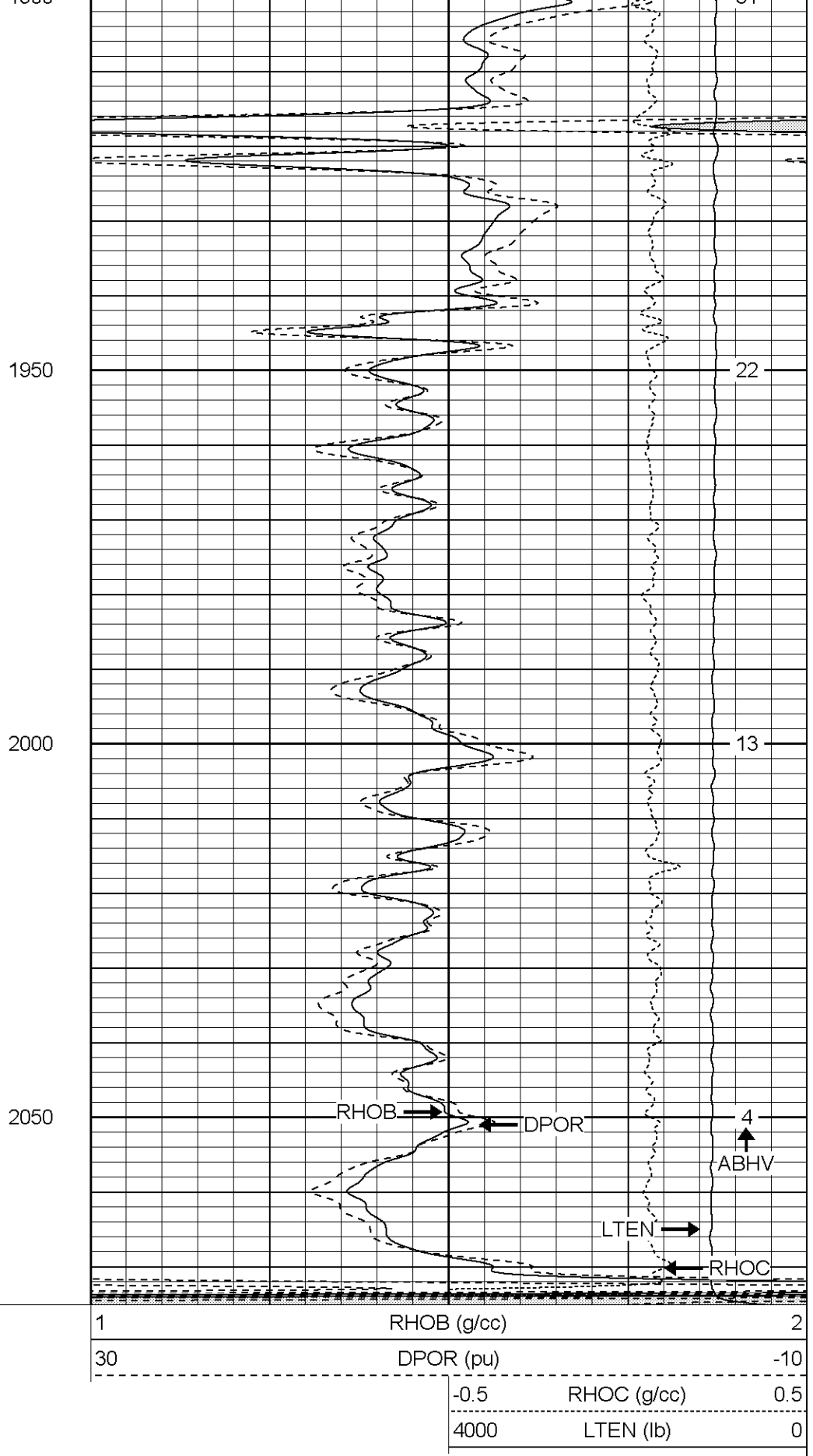
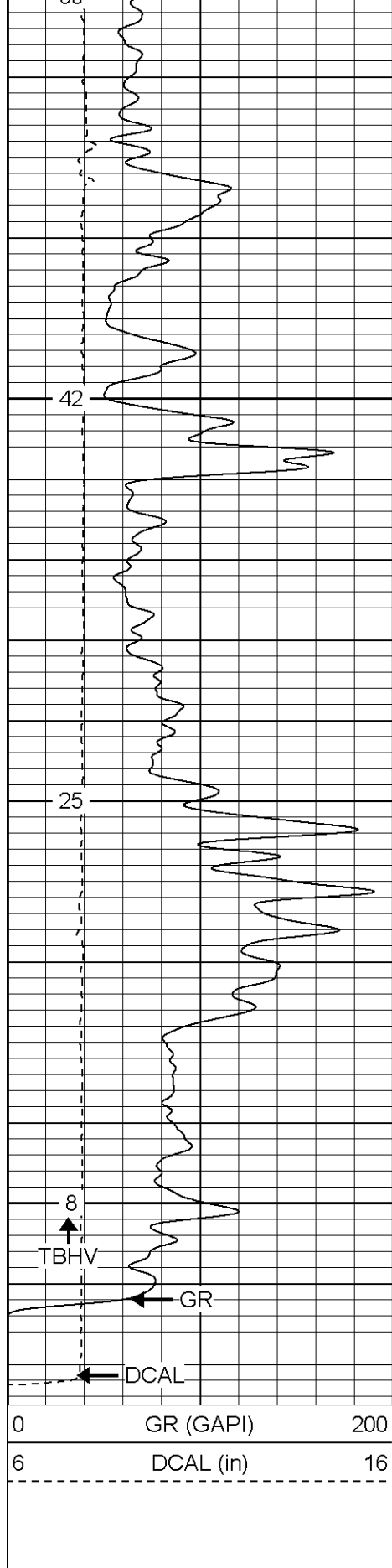
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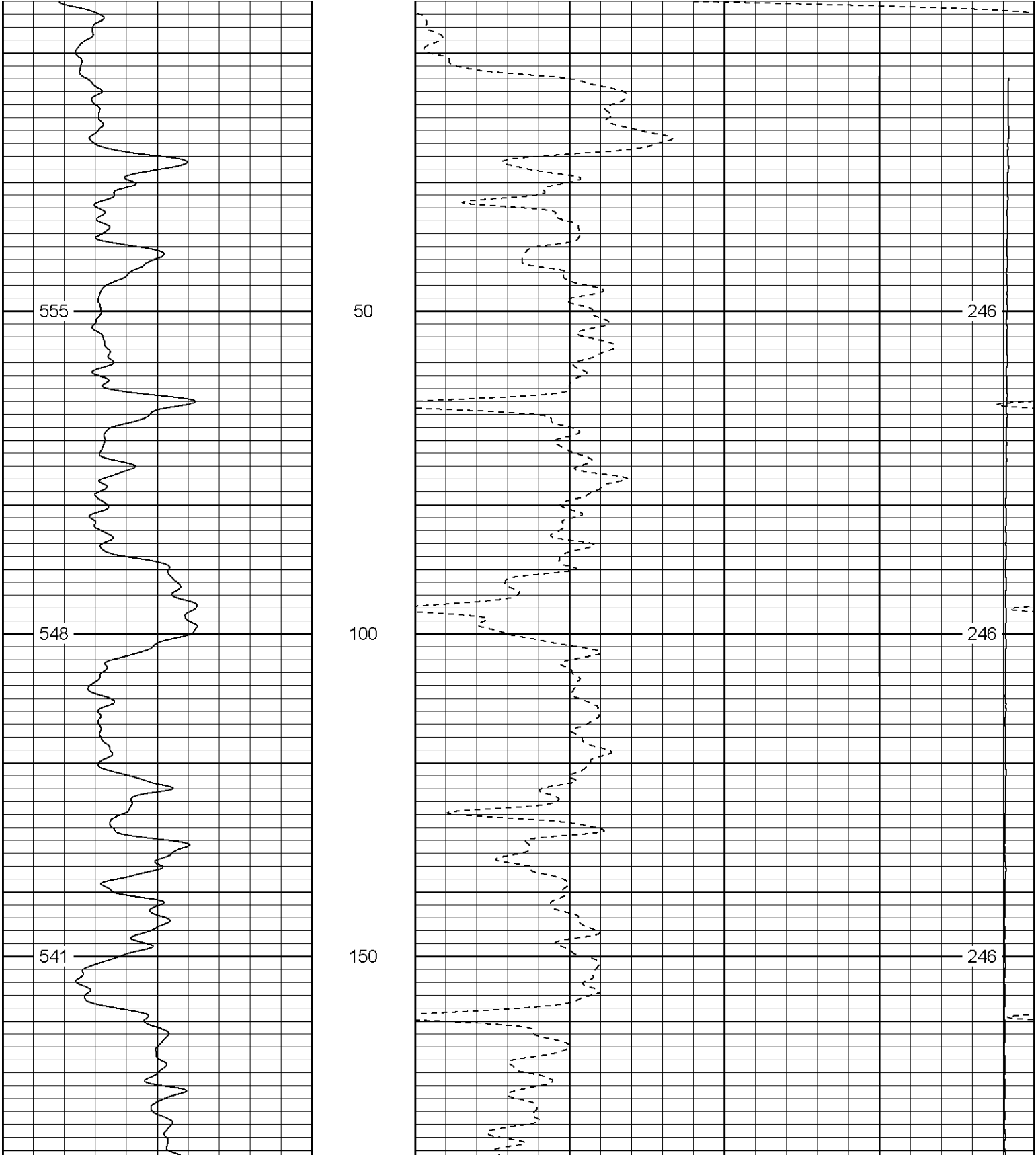


**Patterson**

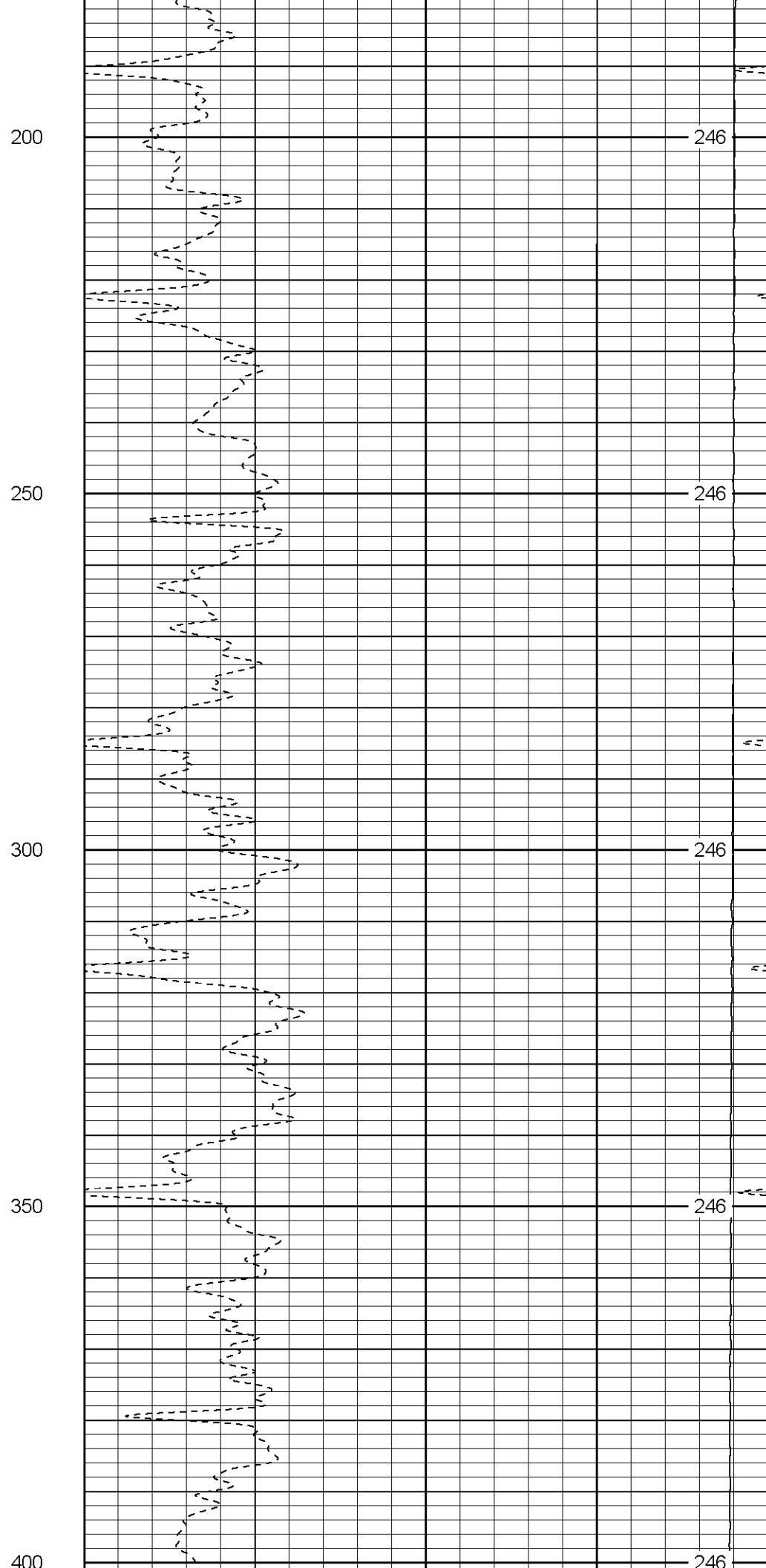
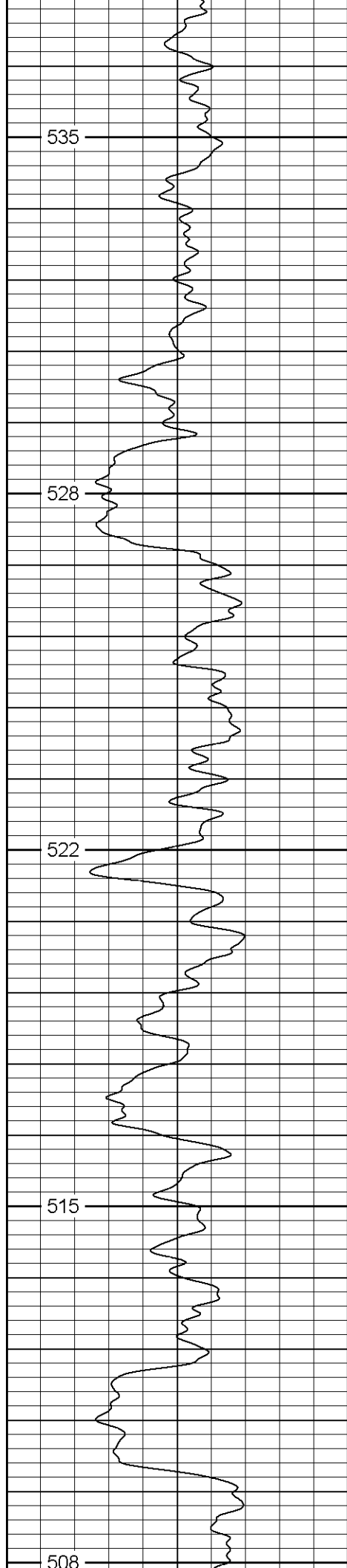
**Main Pass**

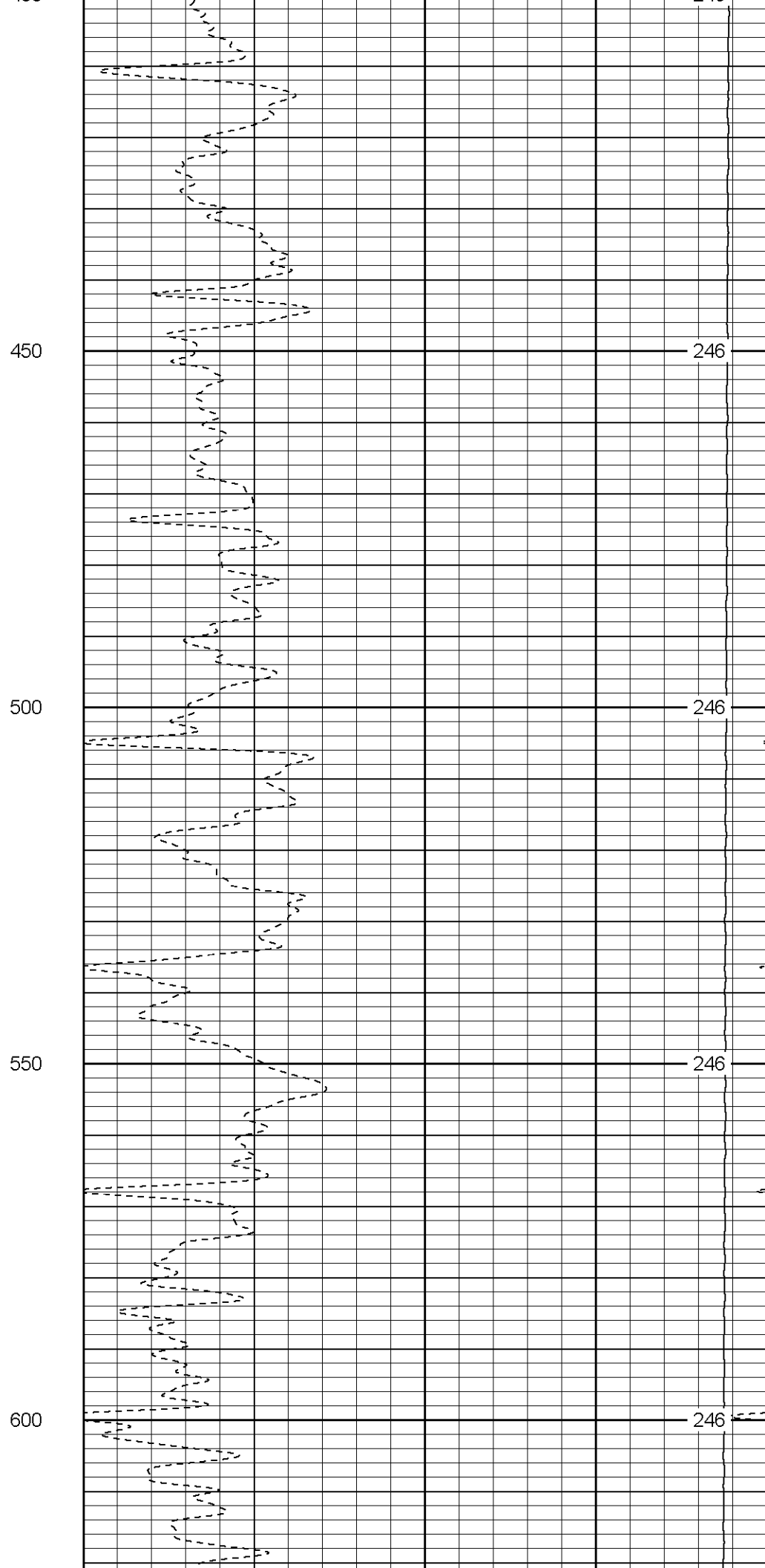
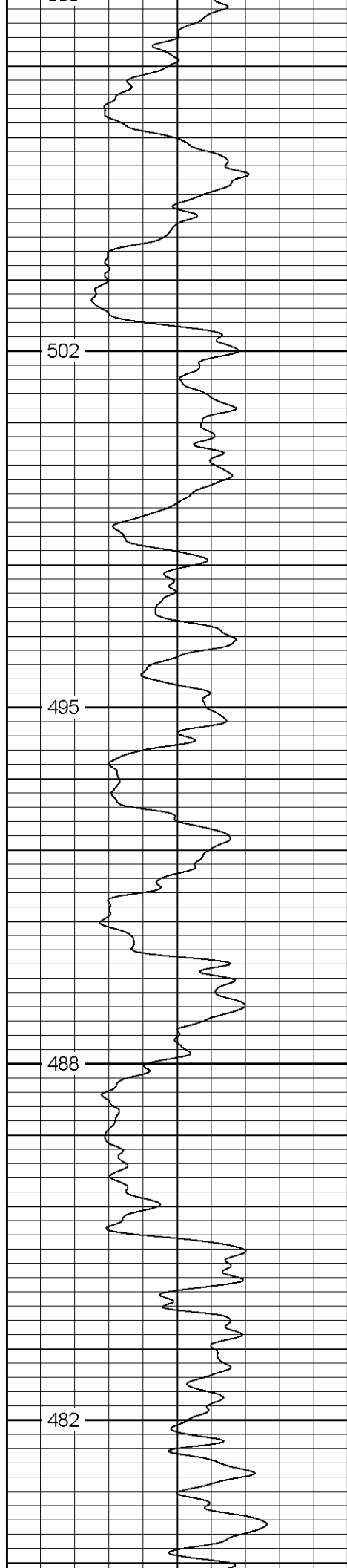
Database File: olympian.db  
Dataset Pathname: pass4.1  
Presentation Format: cdnl  
Dataset Creation: Sun Sep 11 20:36:20 2005 by Calc Warrior 7.0 STD Ope  
Charted by: Depth in Feet scaled 1:240

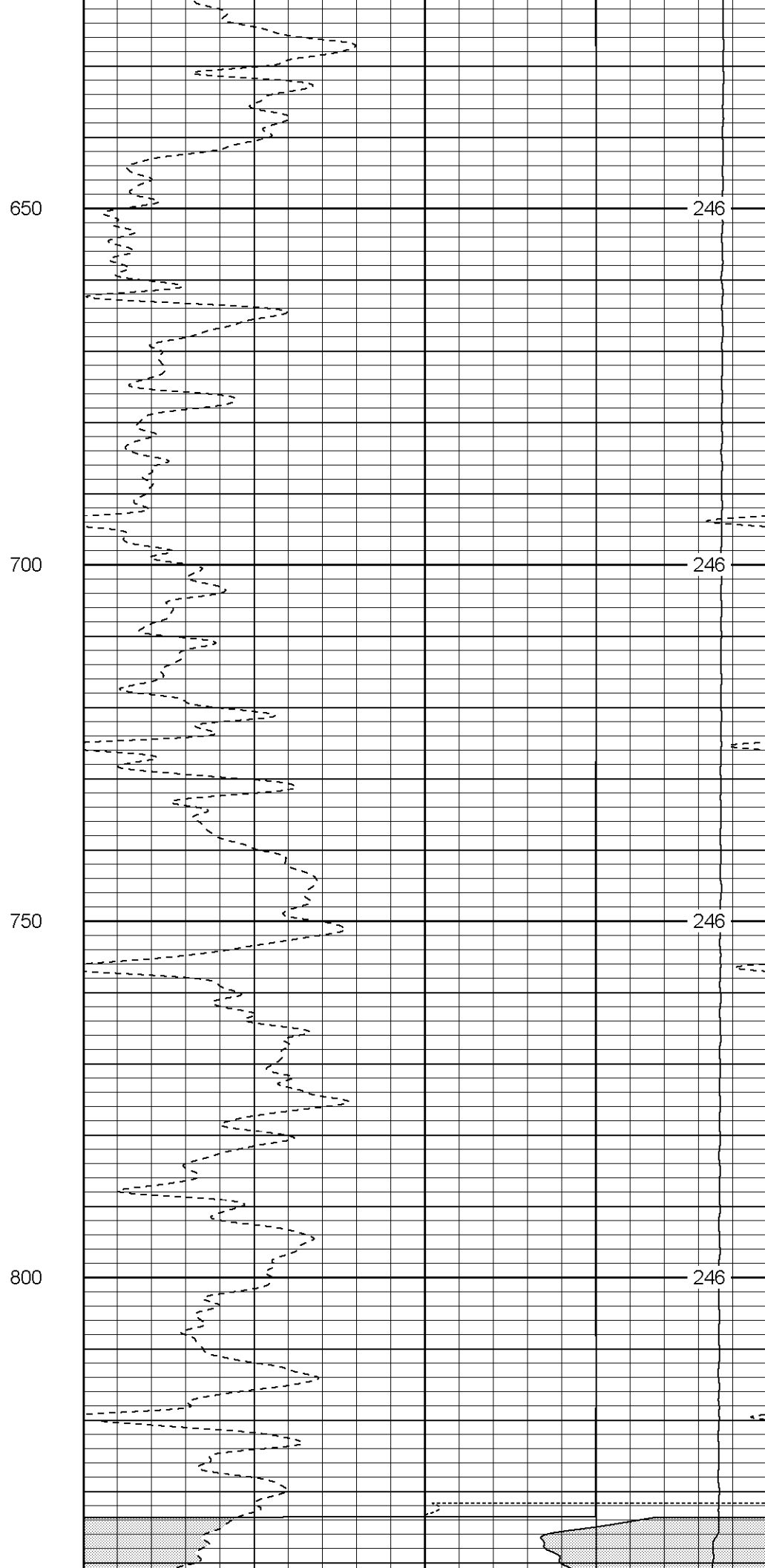
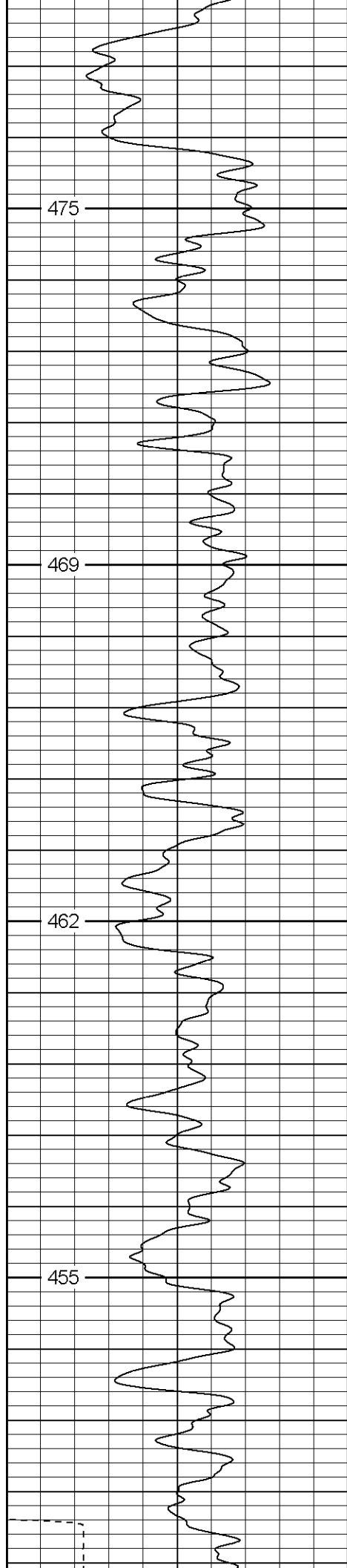
0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			5000	LTEN (lb)	0

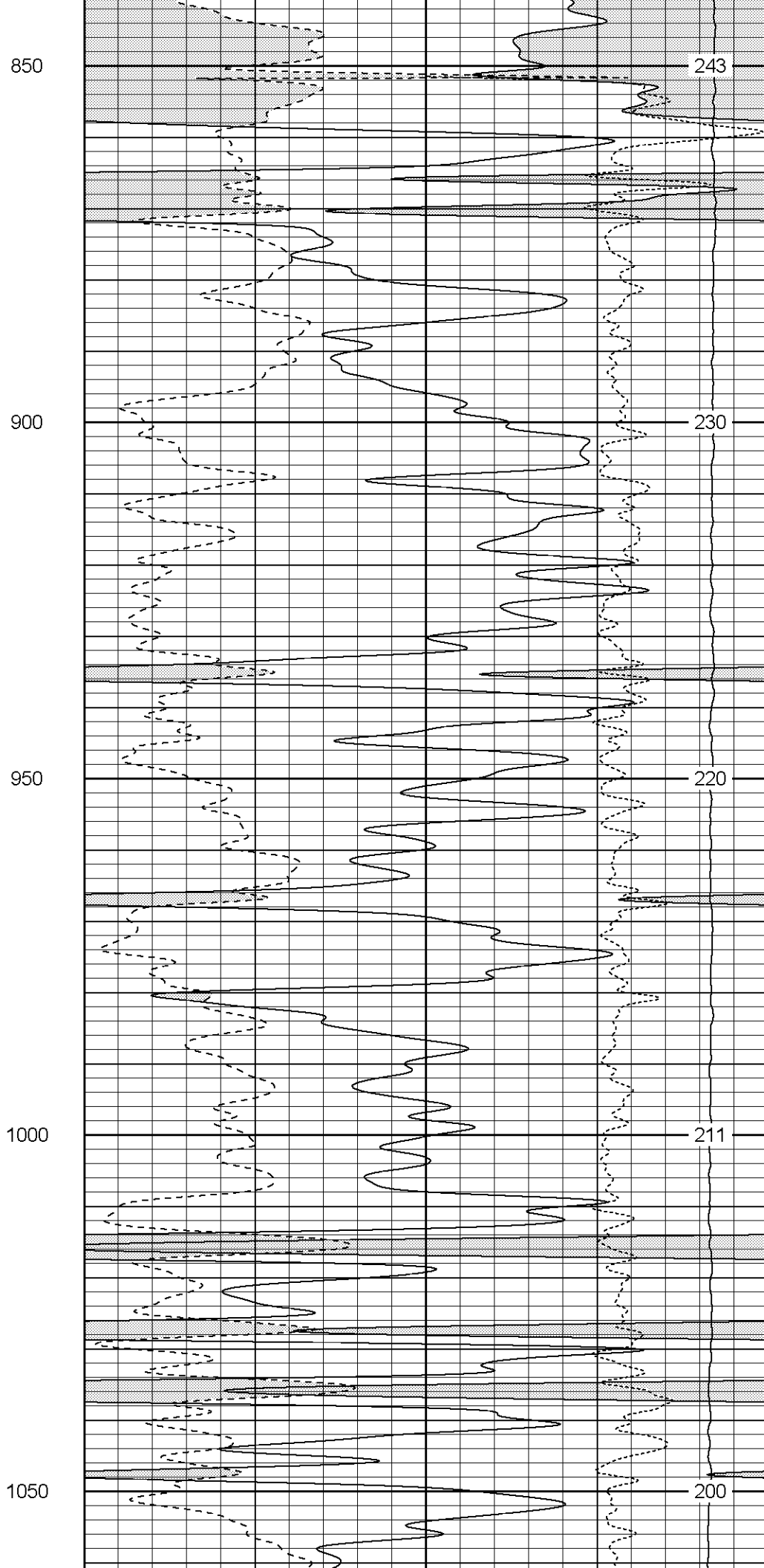
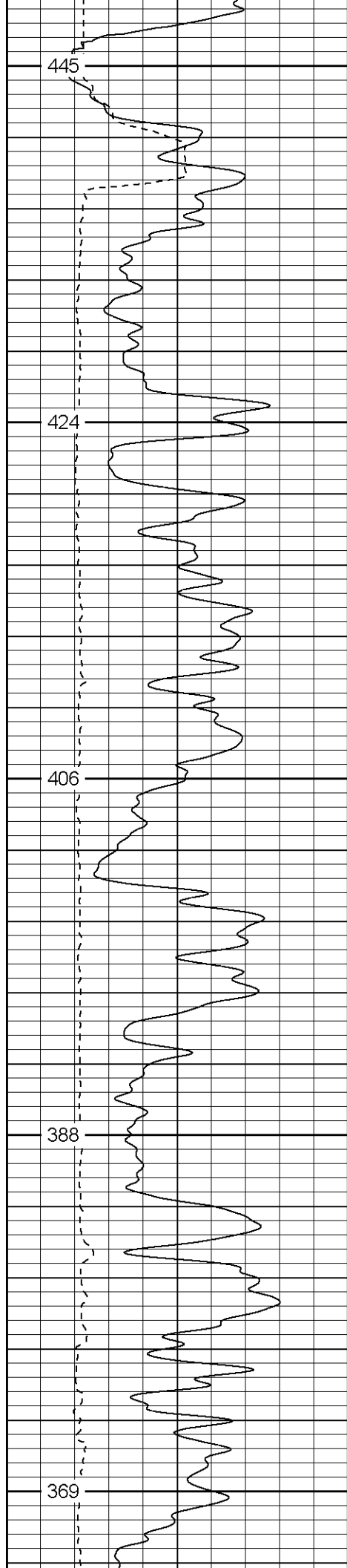


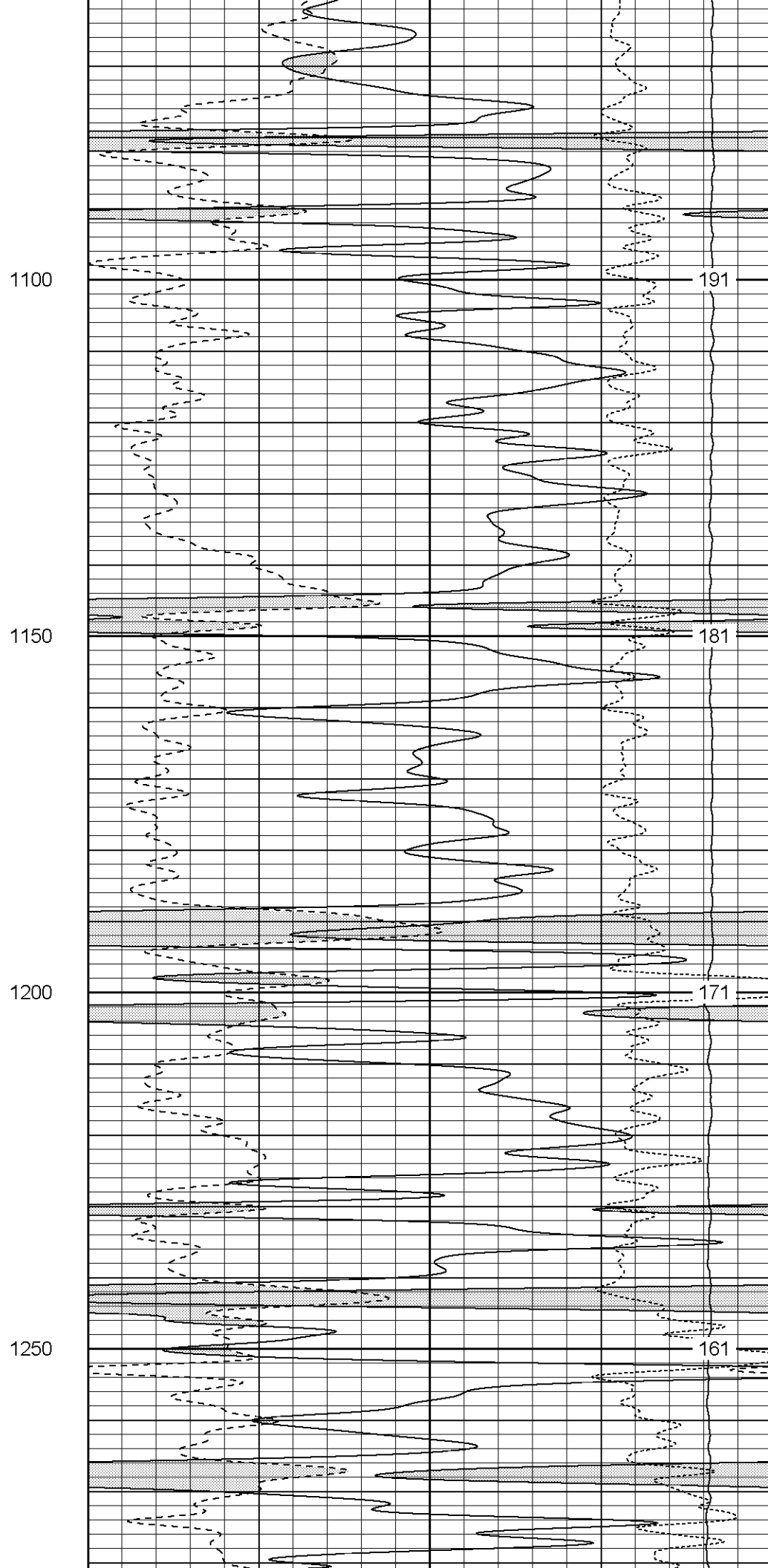
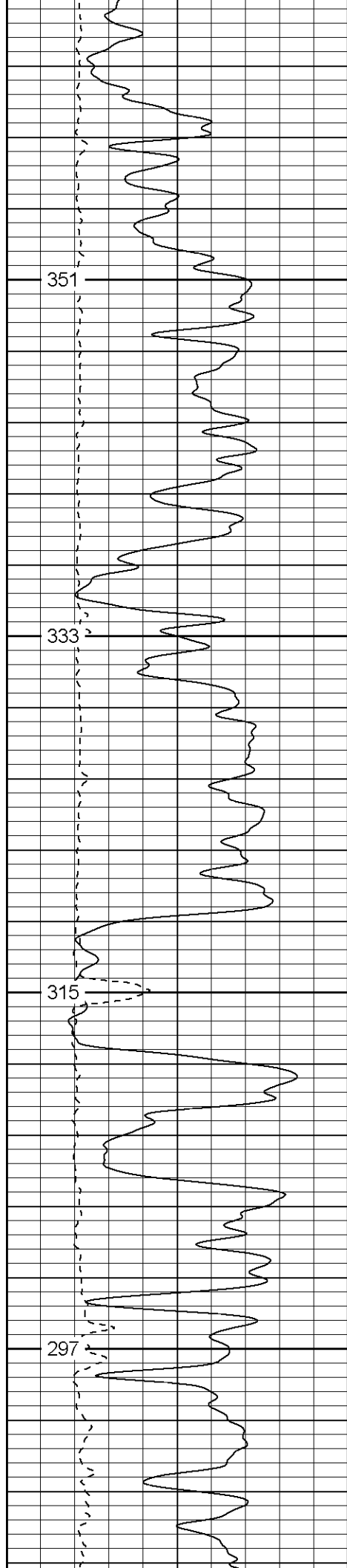


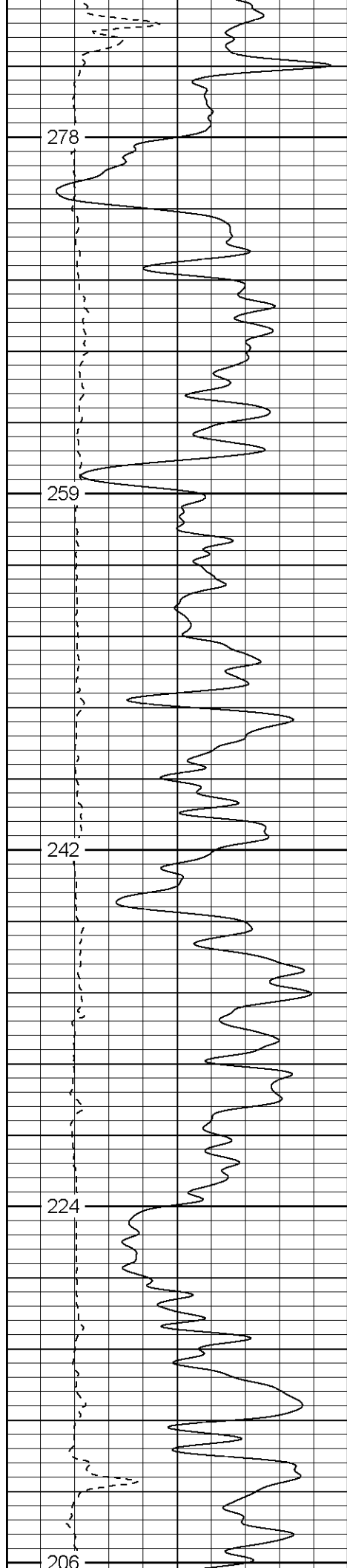












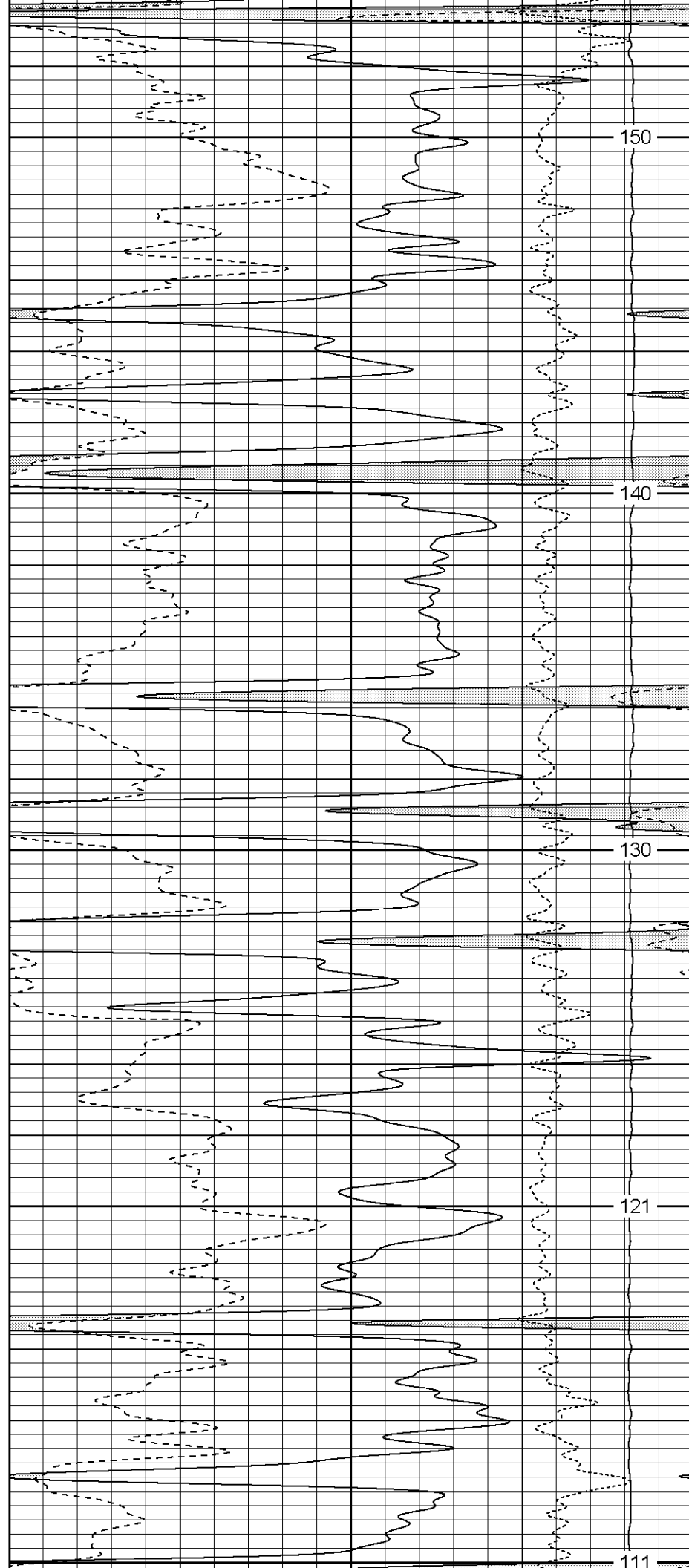
1300

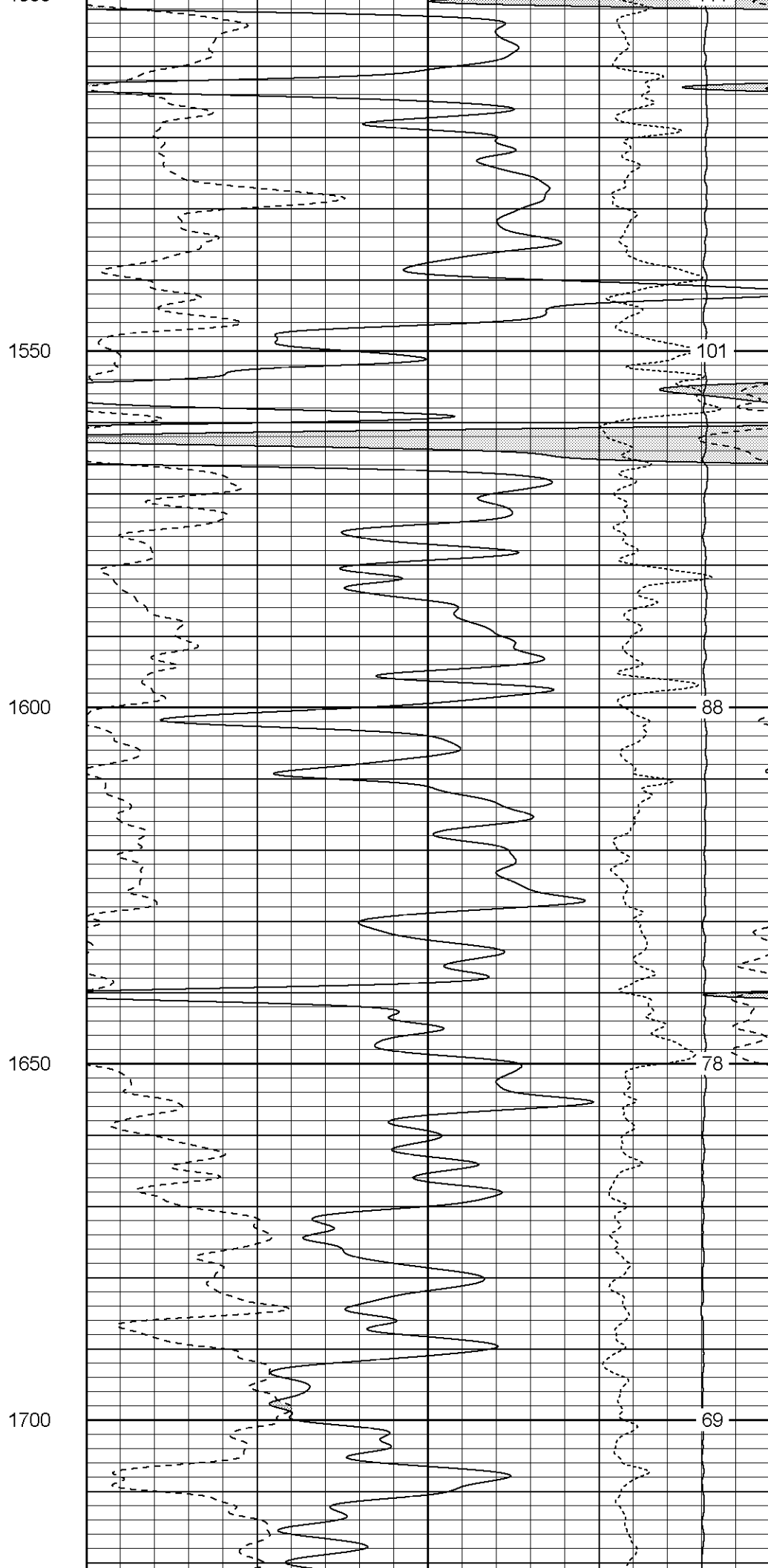
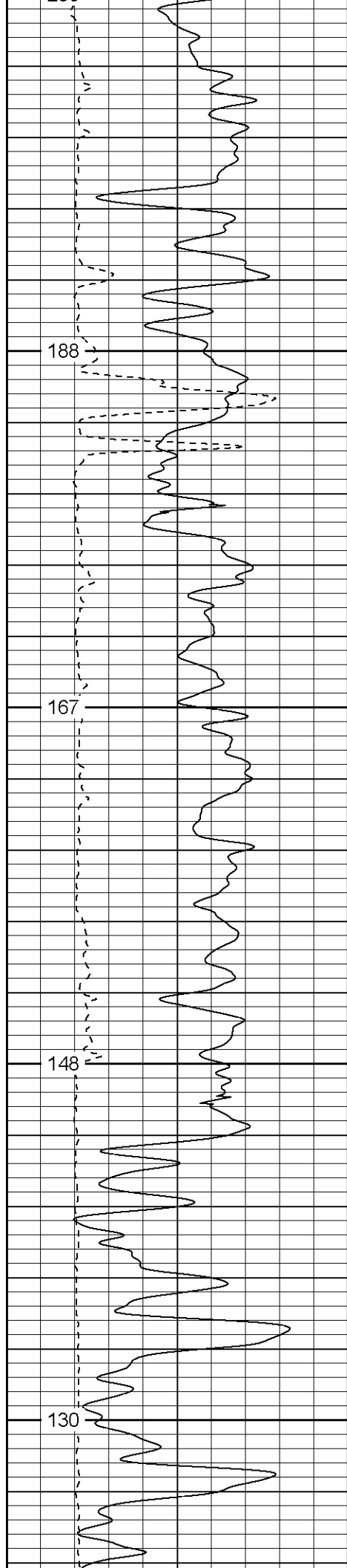
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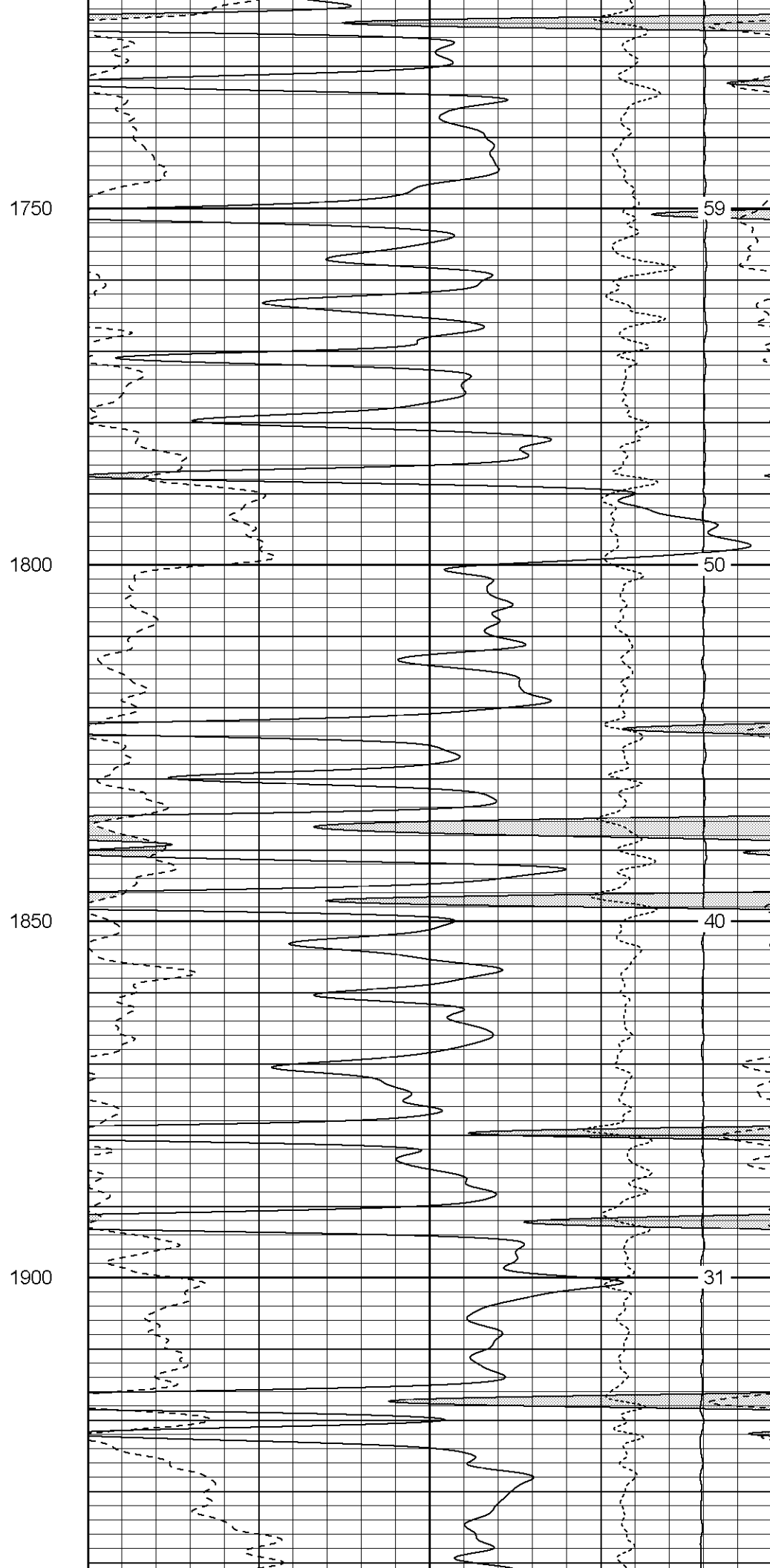
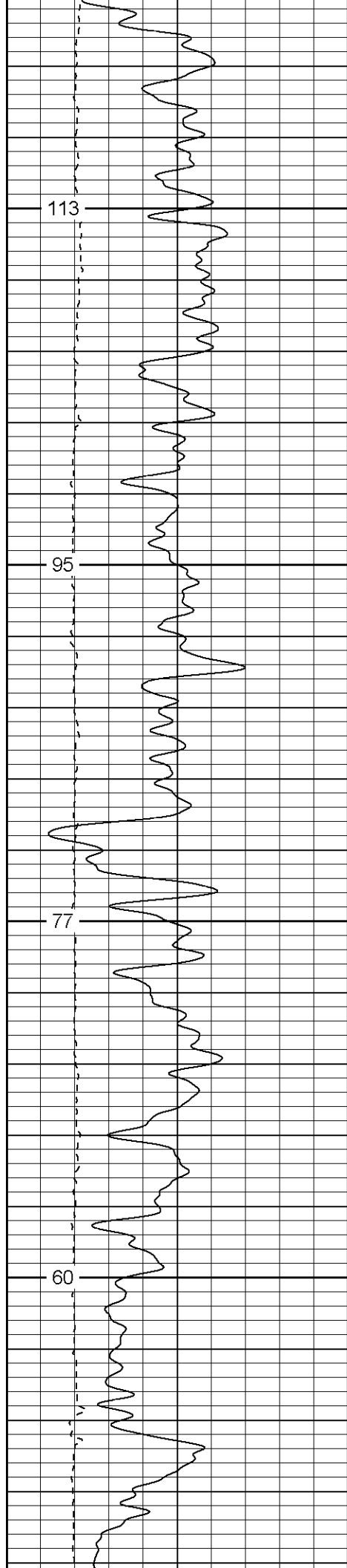
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1450

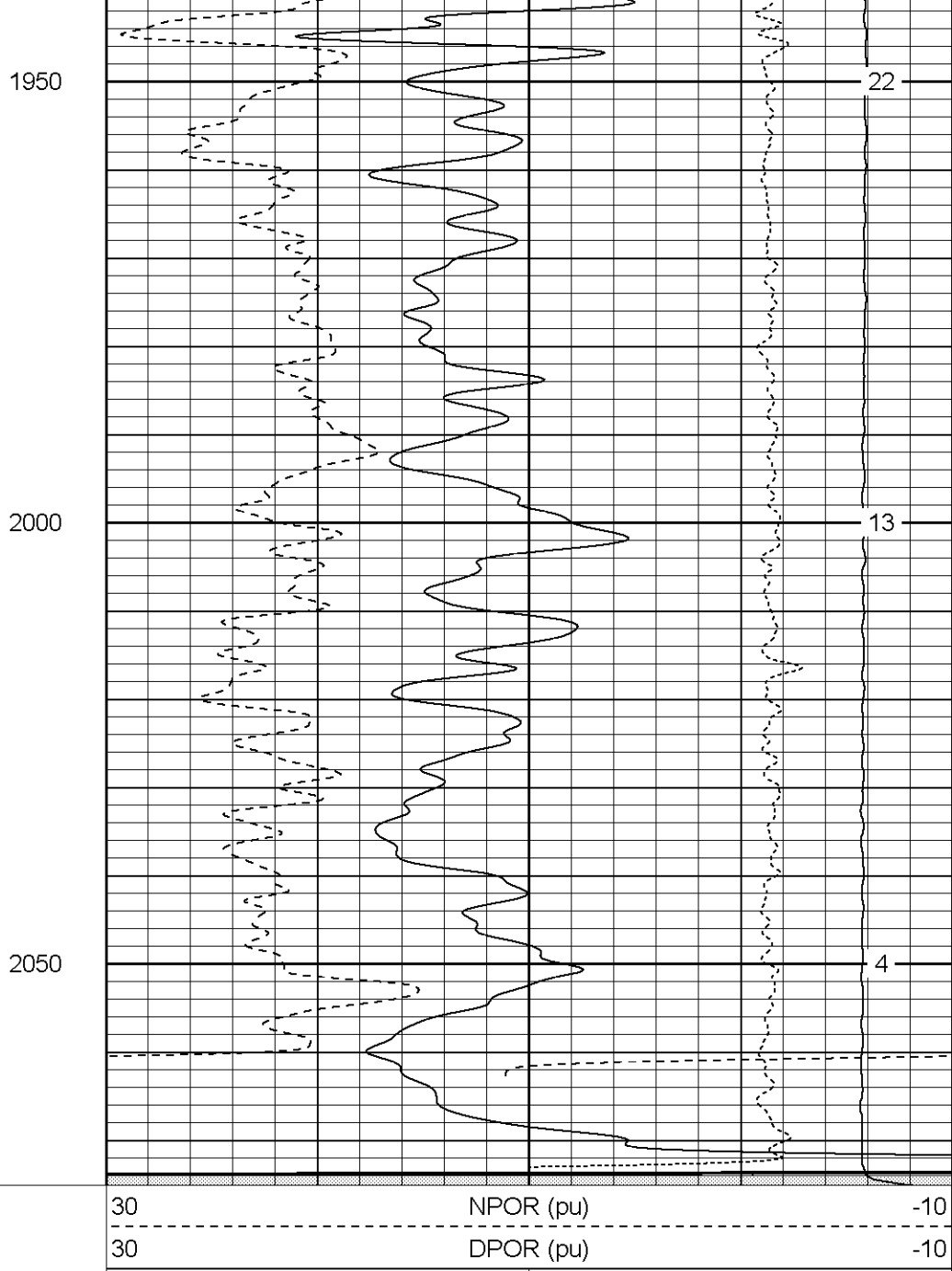
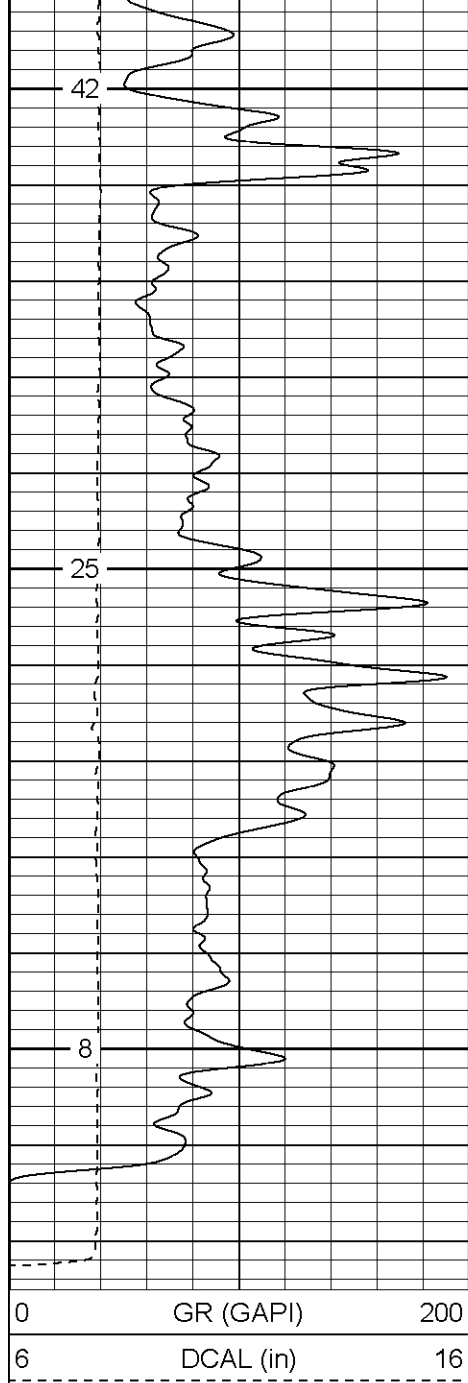
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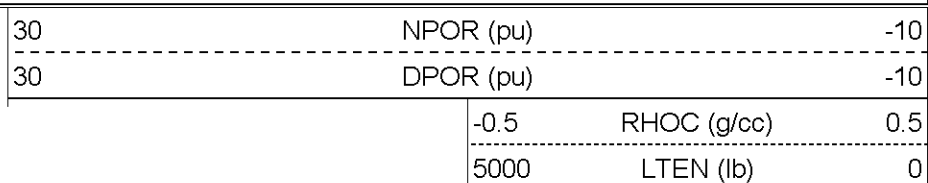
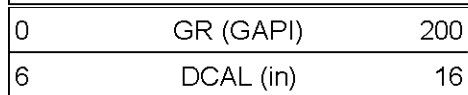


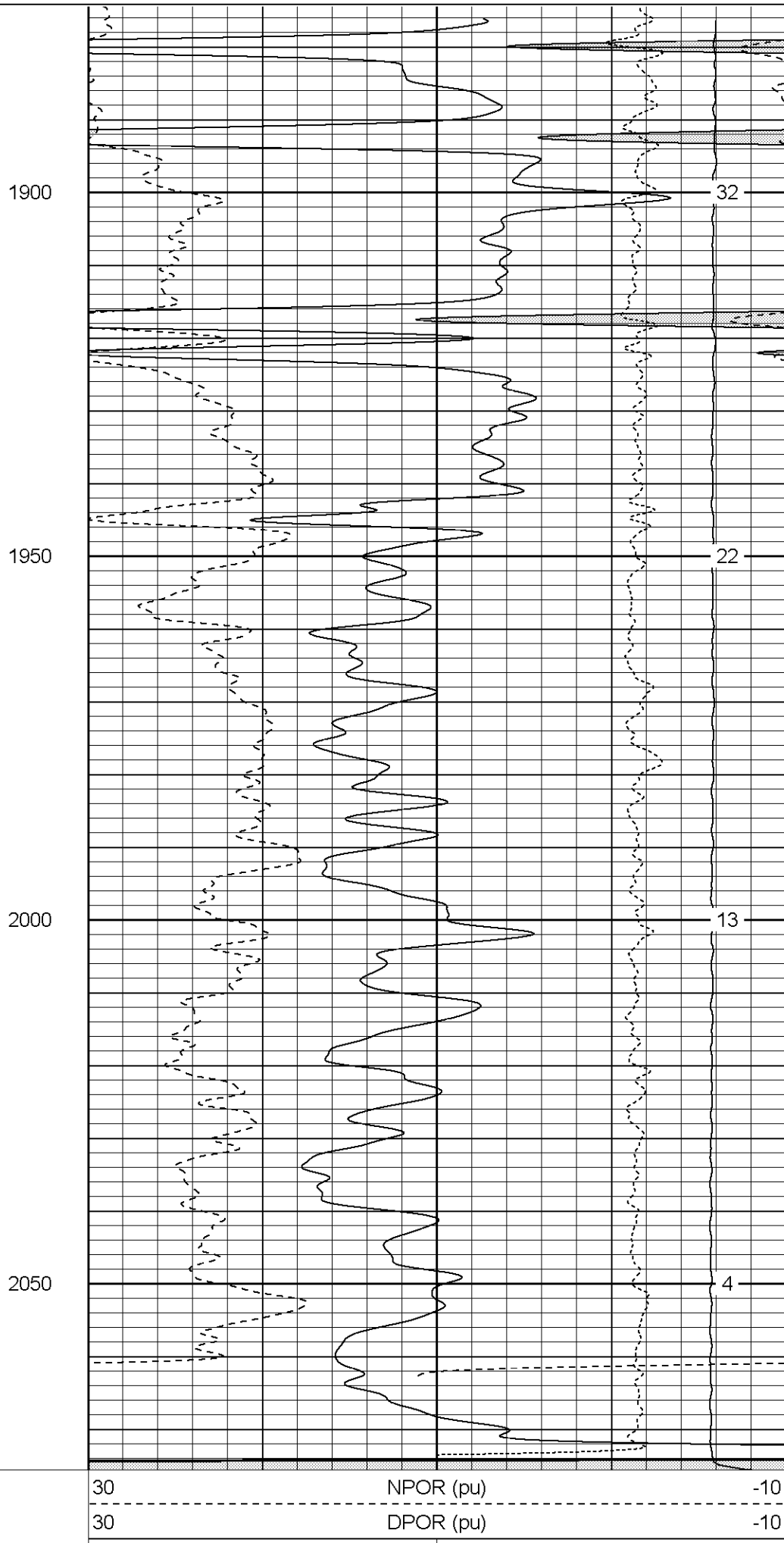
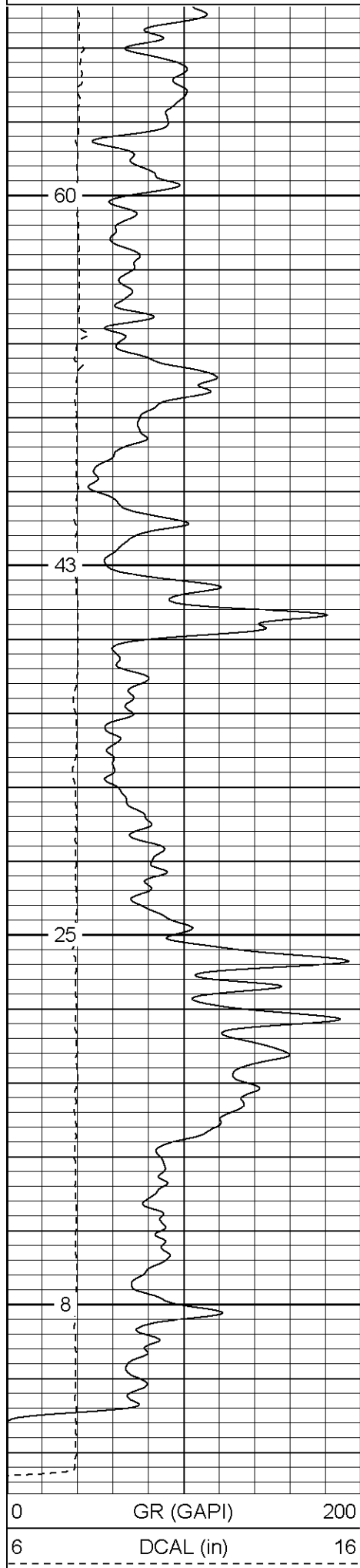


**Patterson**

## Repeat Section

Database File: olympian.db  
 Dataset Pathname: pass3.1  
 Presentation Format: cdnl  
 Dataset Creation: Sun Sep 11 20:20:06 2005 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	RHOC (g/cc)	0.5
5000	LTEN (lb)	0

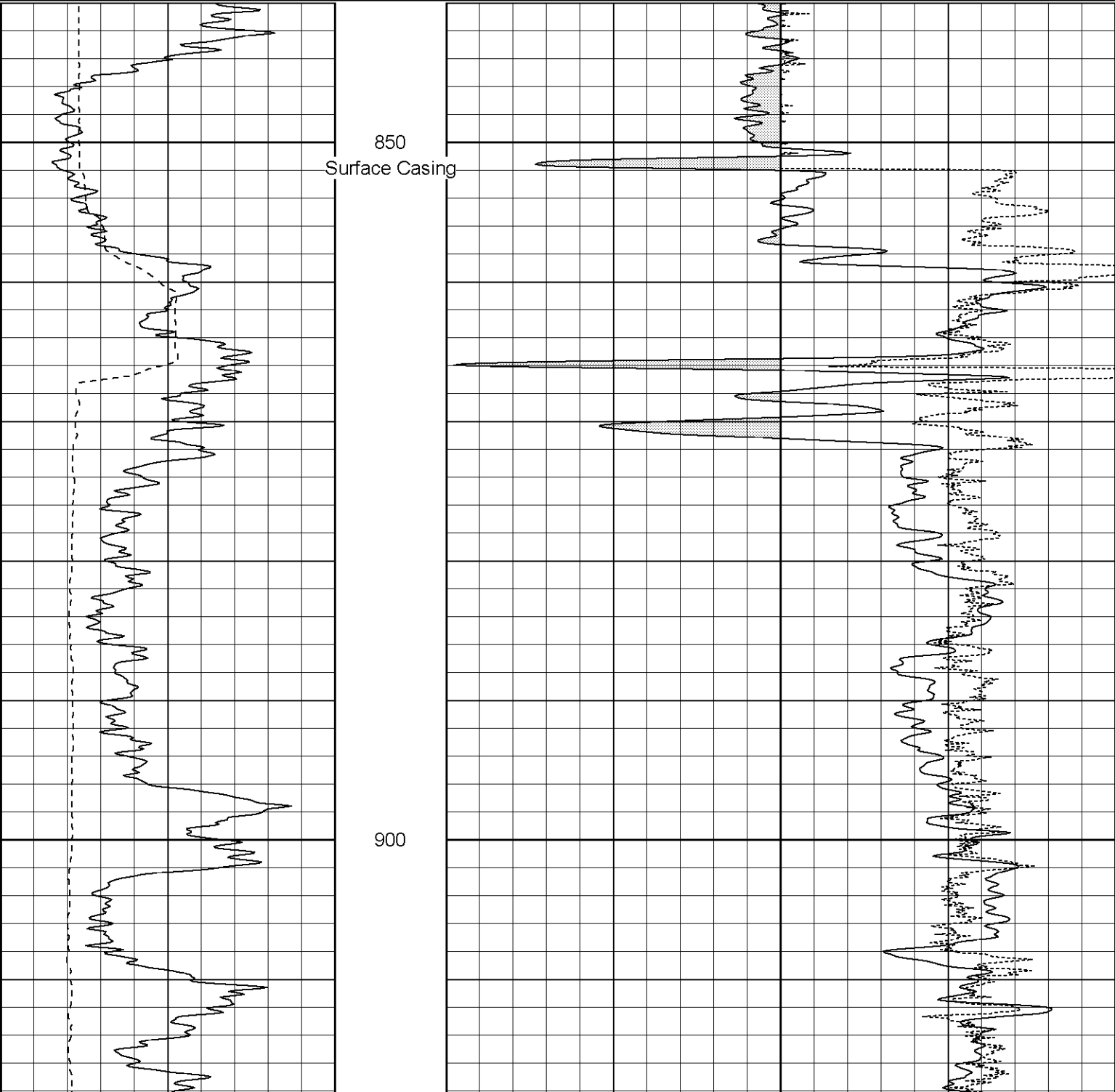
Database File: olympian.db  
Dataset Pathname: pass4.2  
Presentation Format: cdlhr  
Dataset Creation: Mon Sep 12 07:54:10 2005 by Calc Warrior 7.0 STD Ope  
Charted by: Depth in Feet scaled 1:120

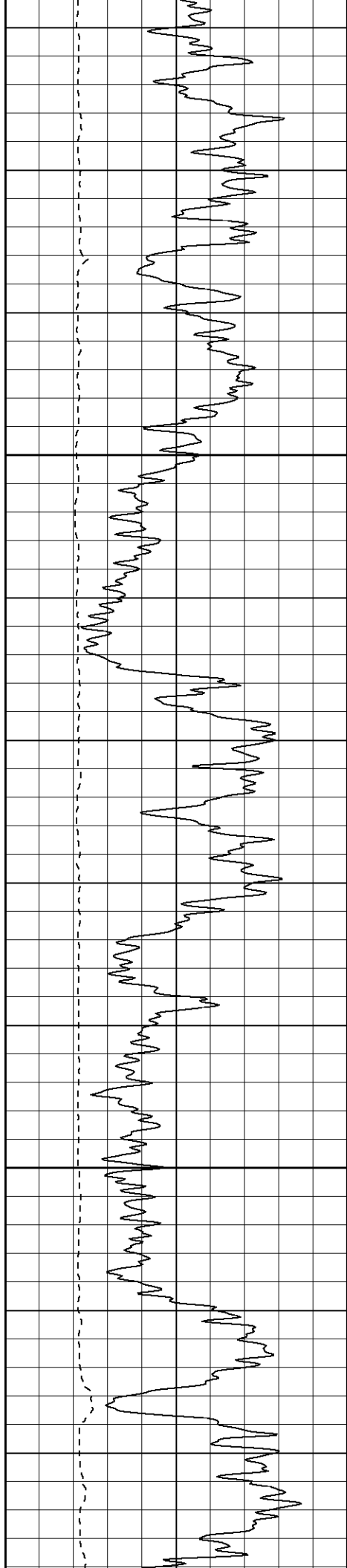
0 GR (GAPI) 200  
6 DCAL (in) 16

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

850  
Surface Casing

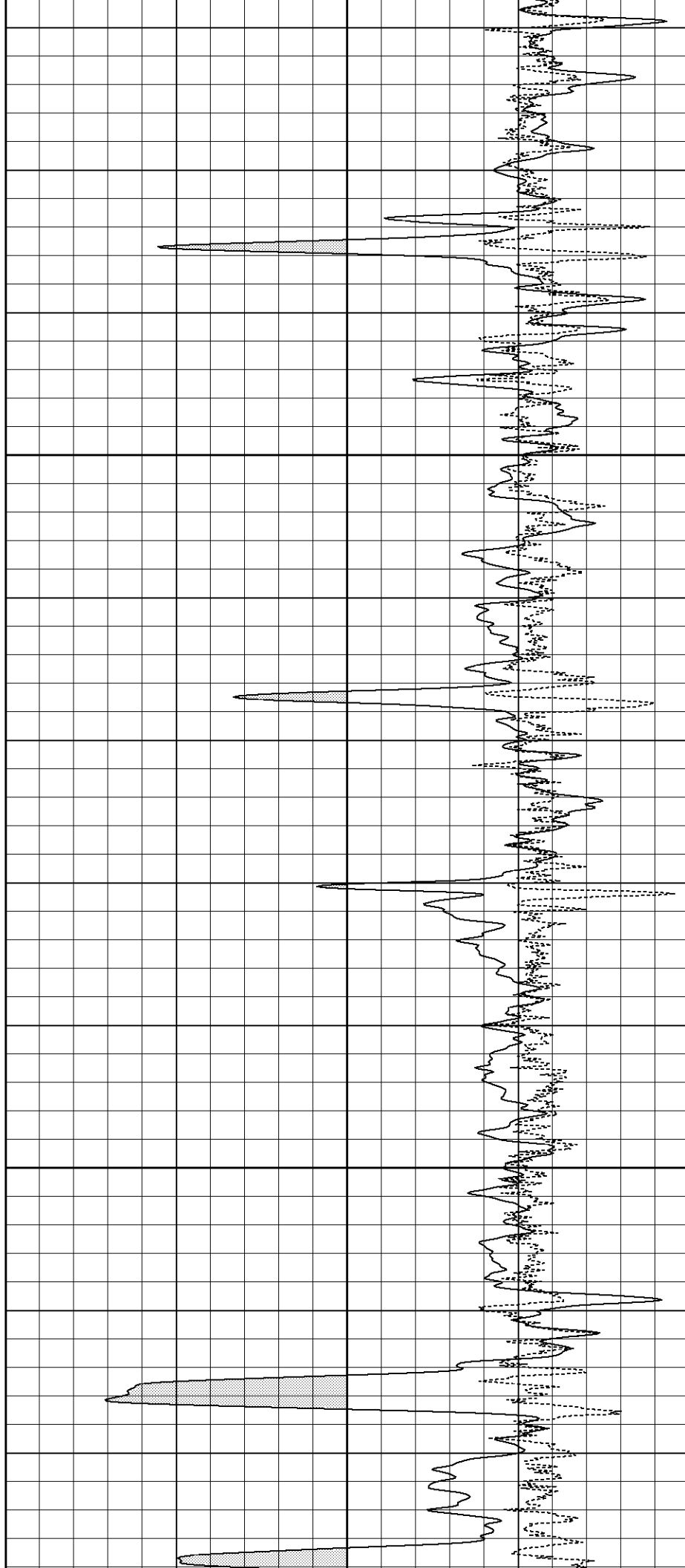
900

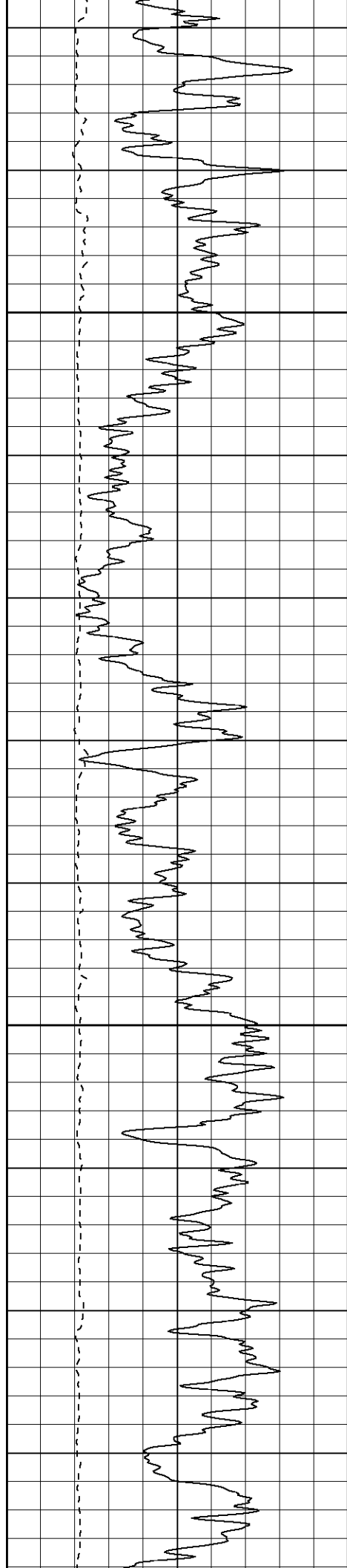




950

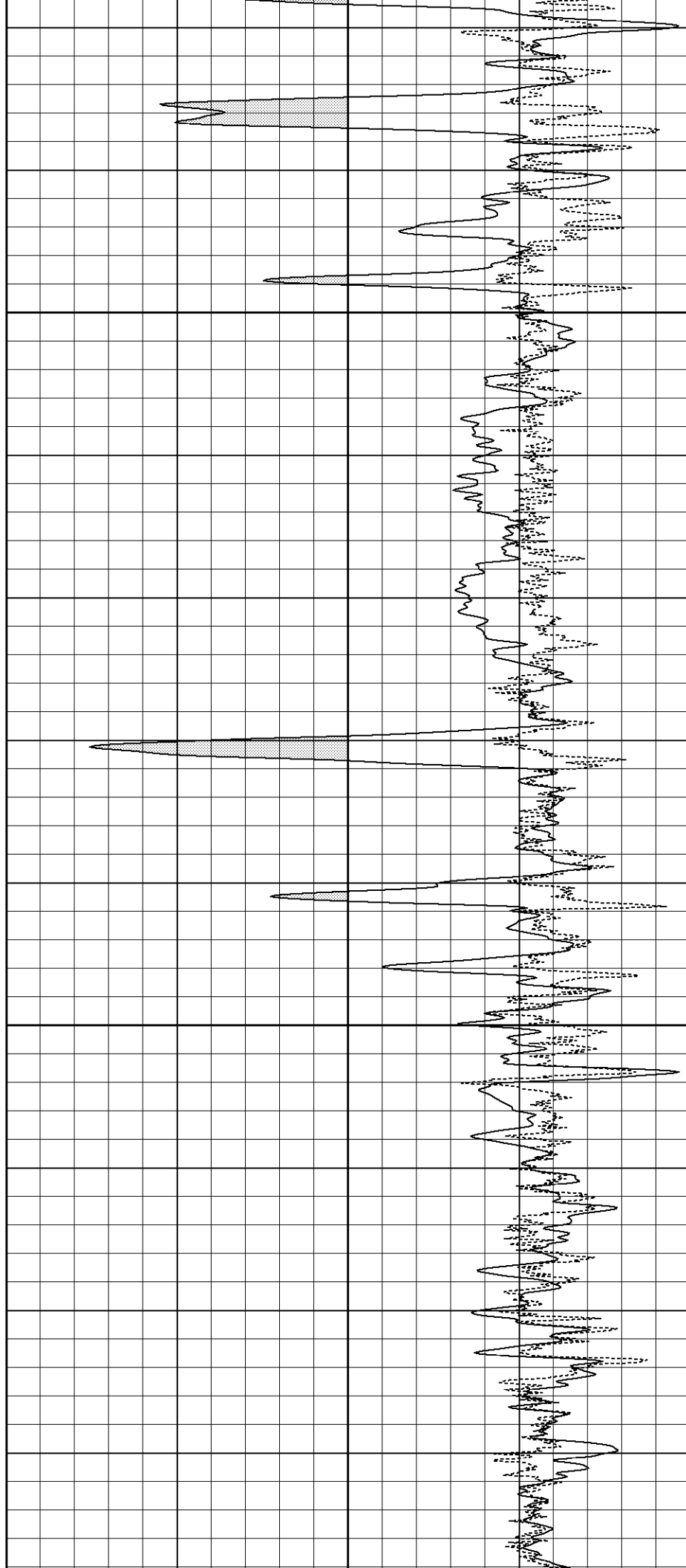
1000

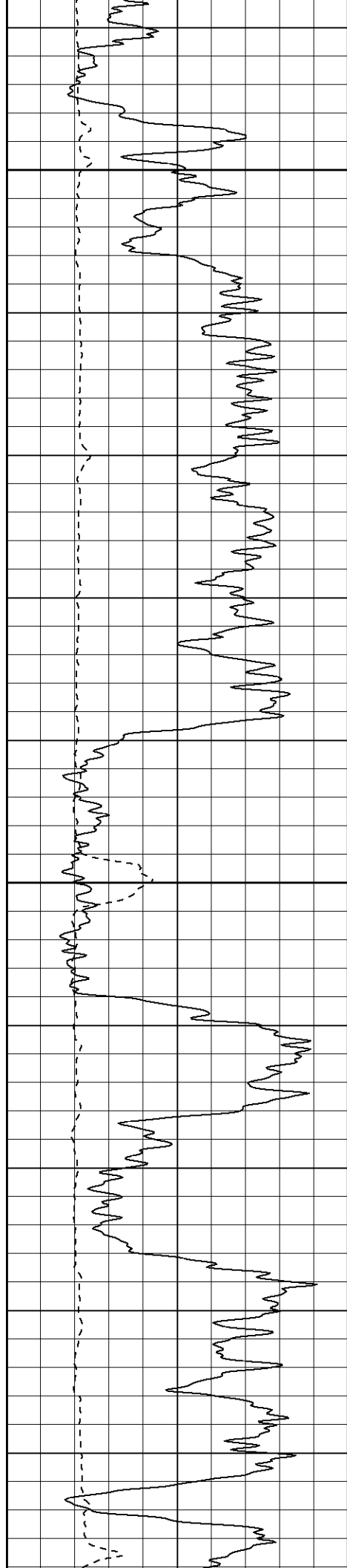




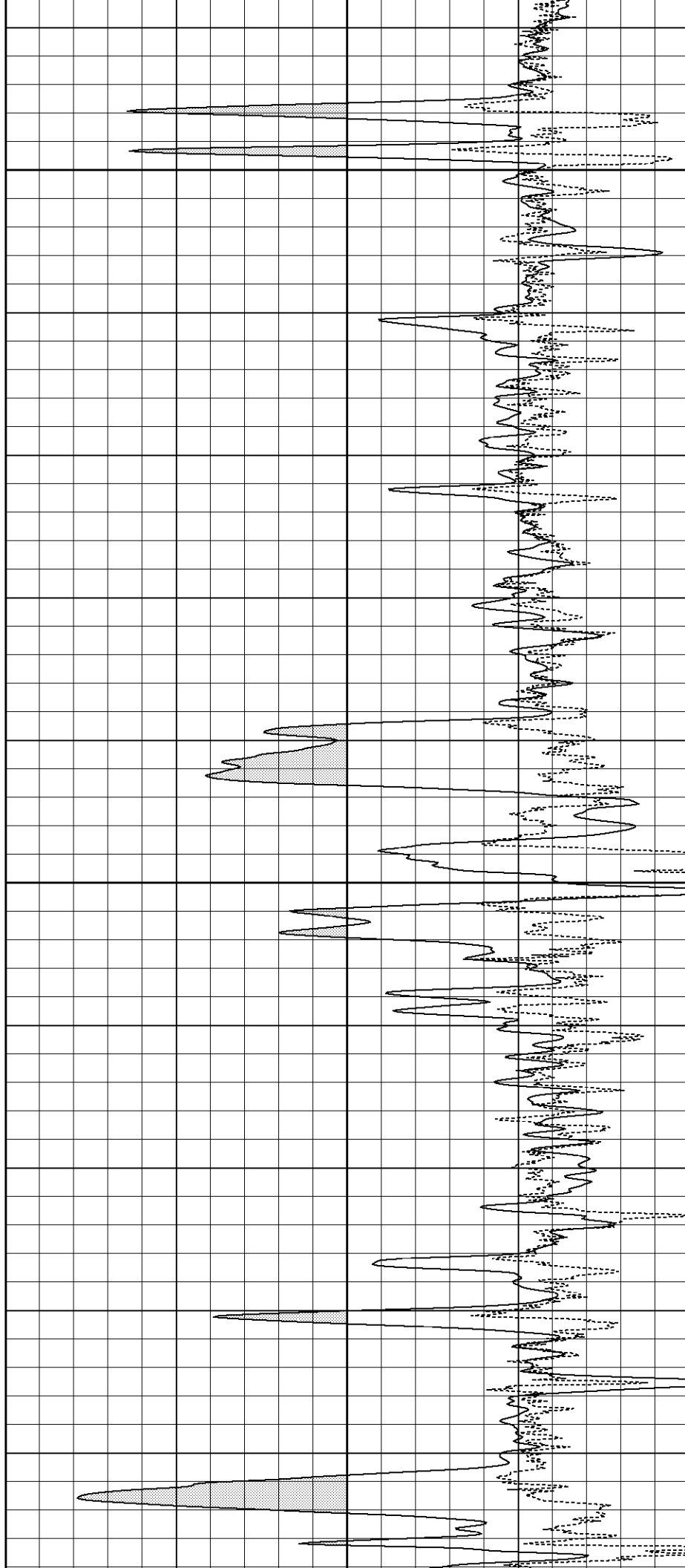
1050

1100

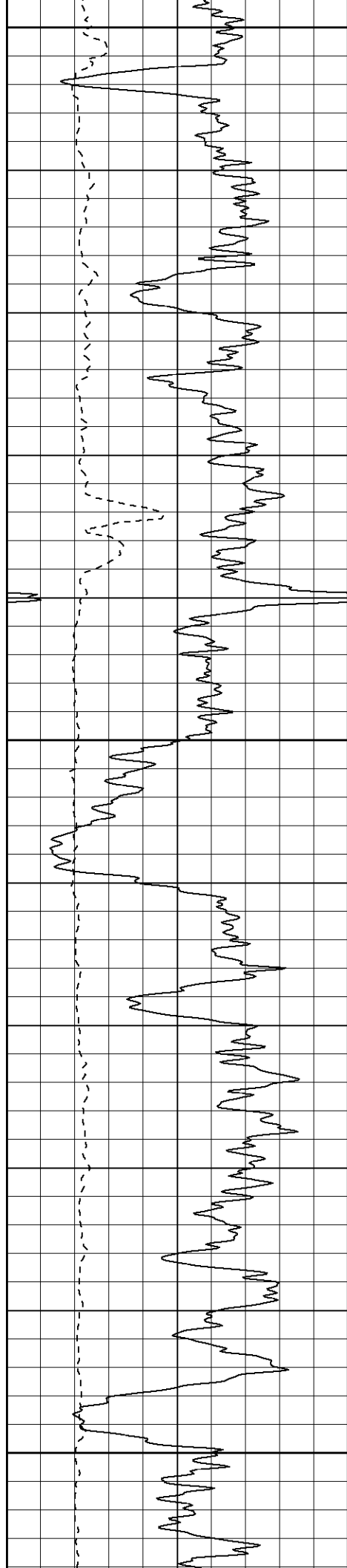




1150



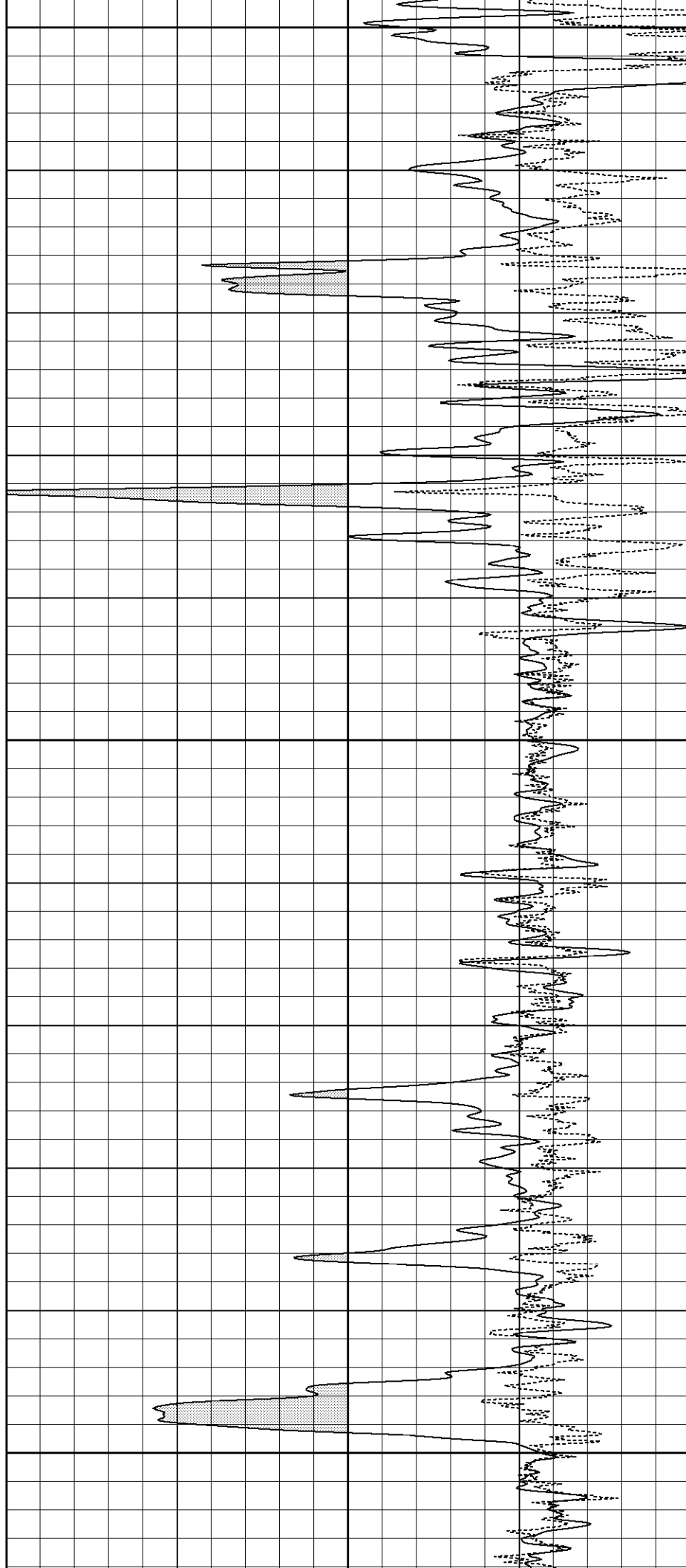
1200

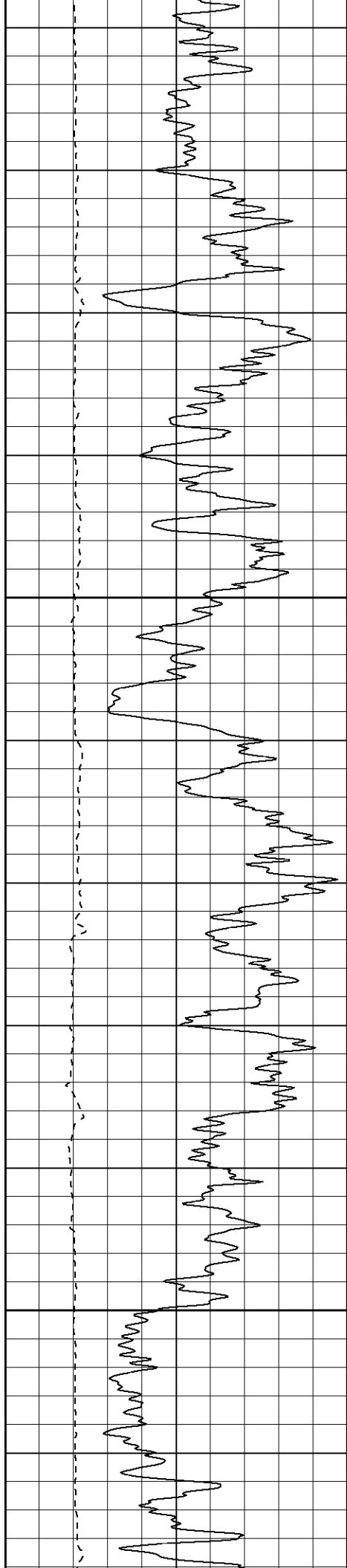


1250

1300

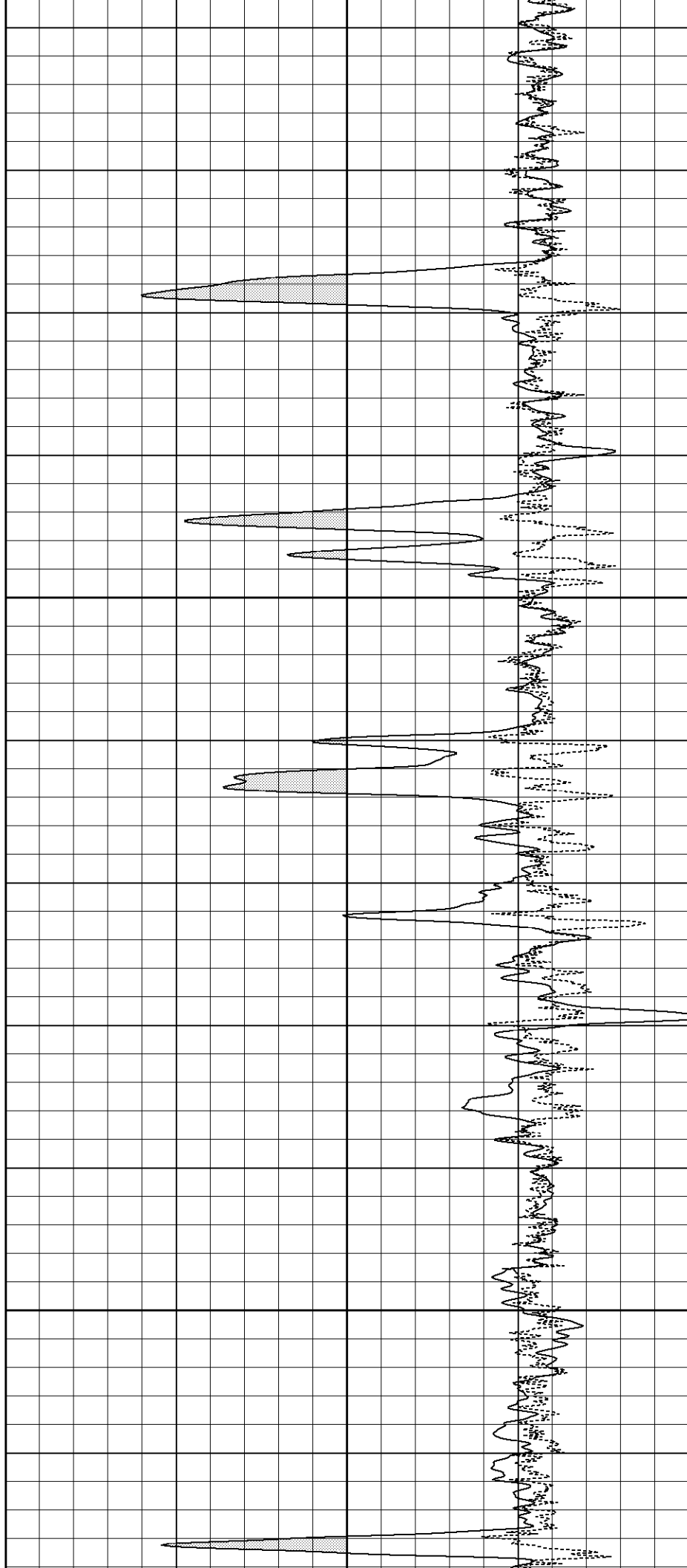
1350



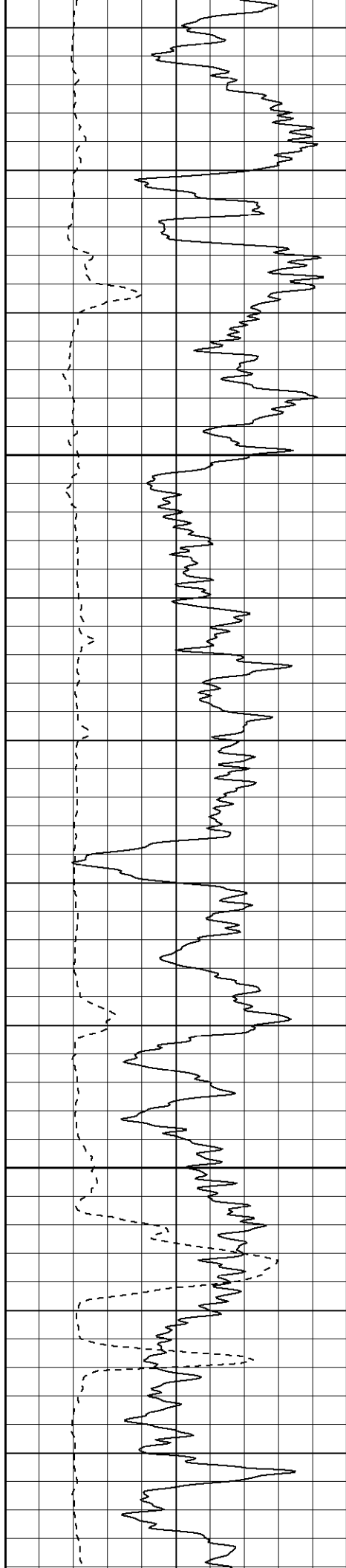


1400

1450

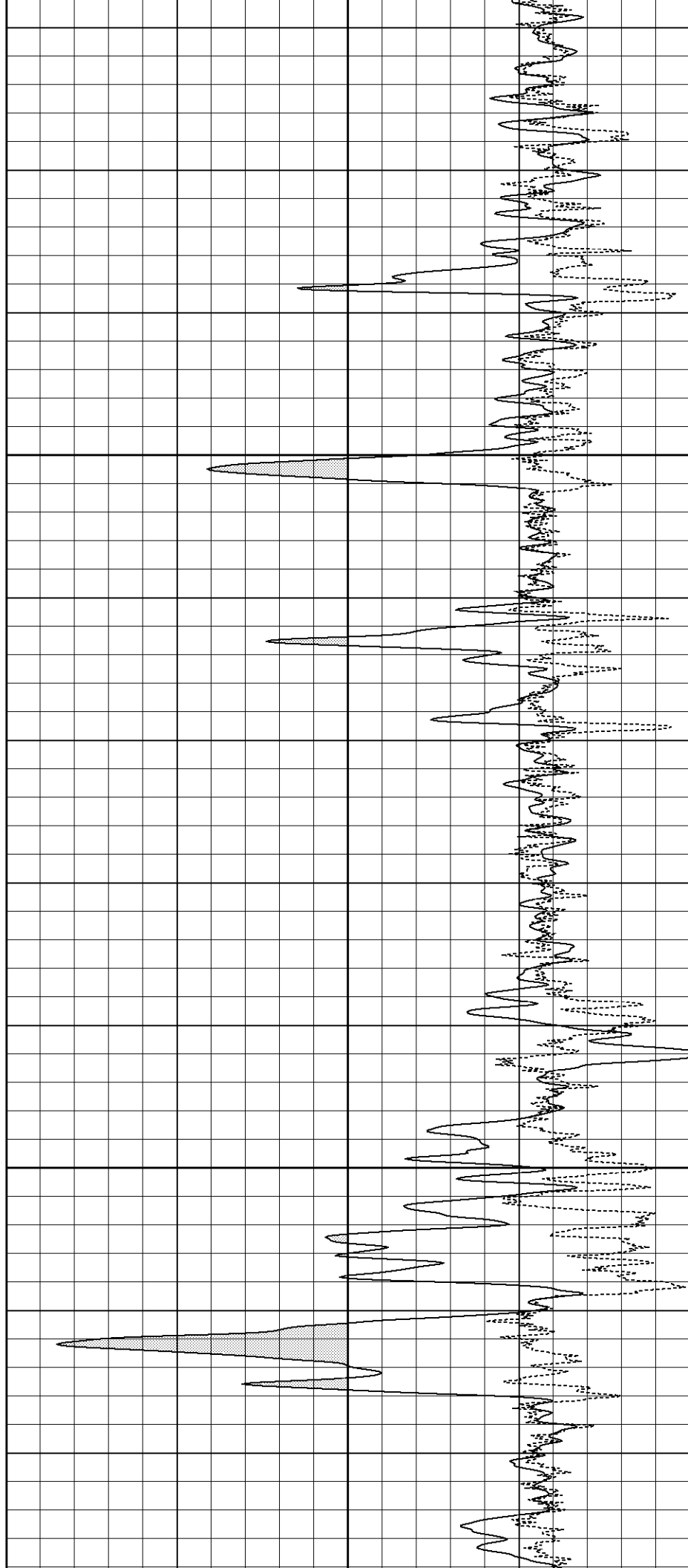


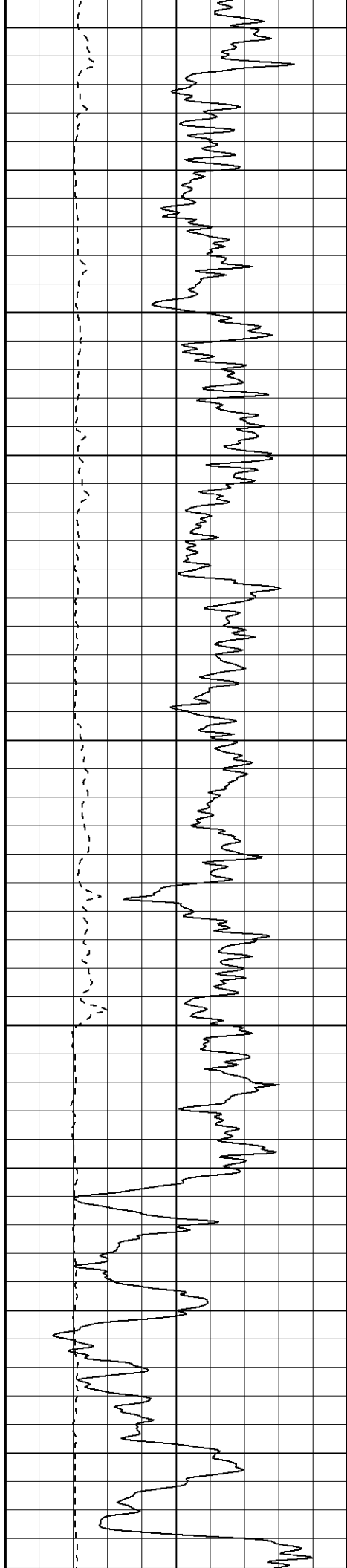




1500

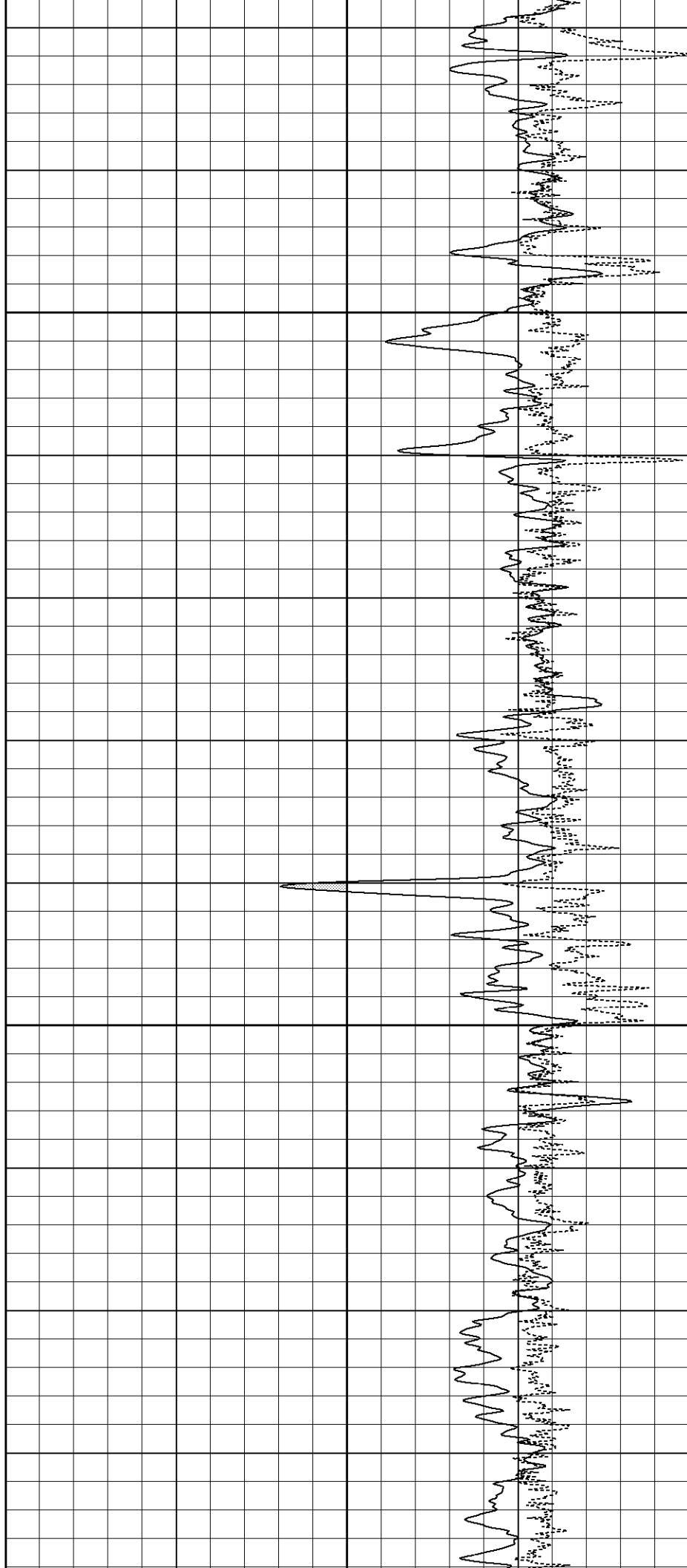
1550

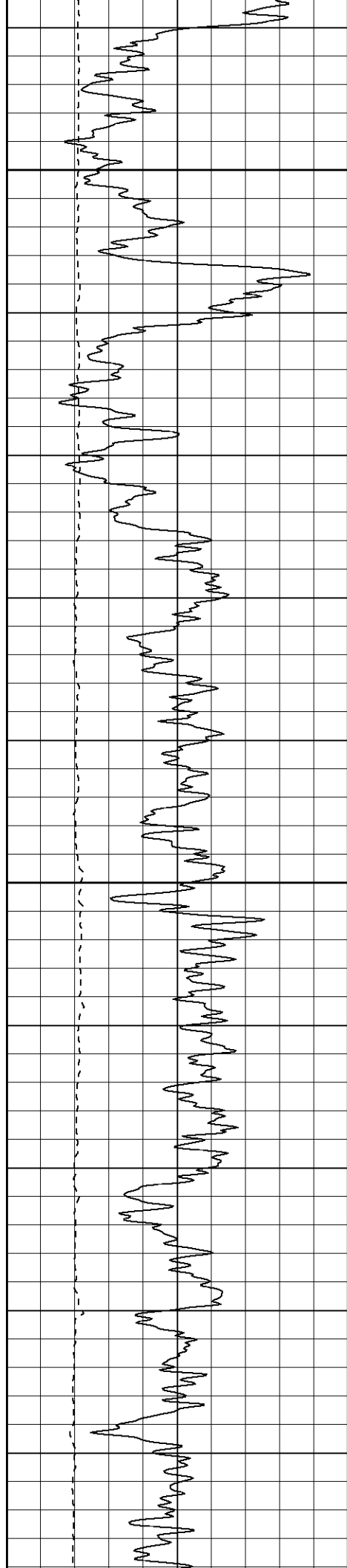




1600

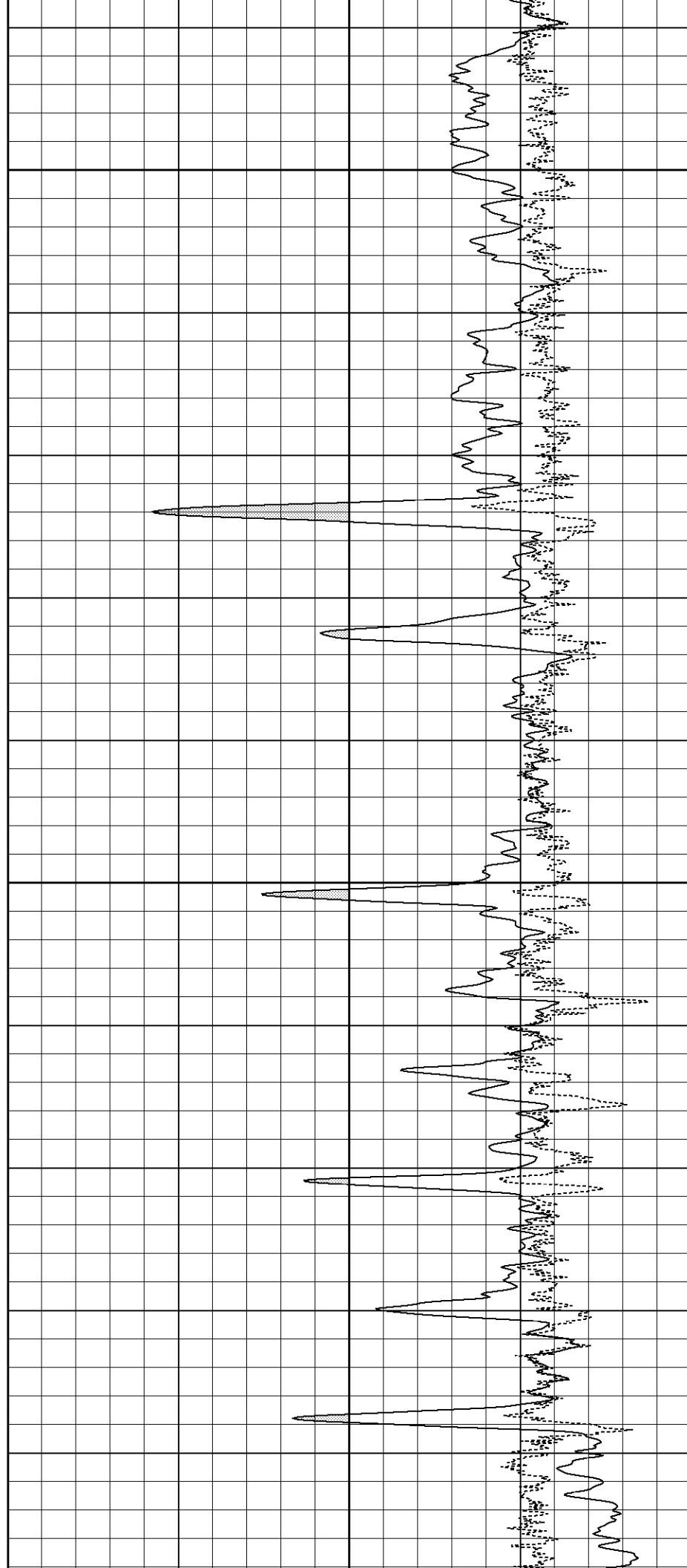
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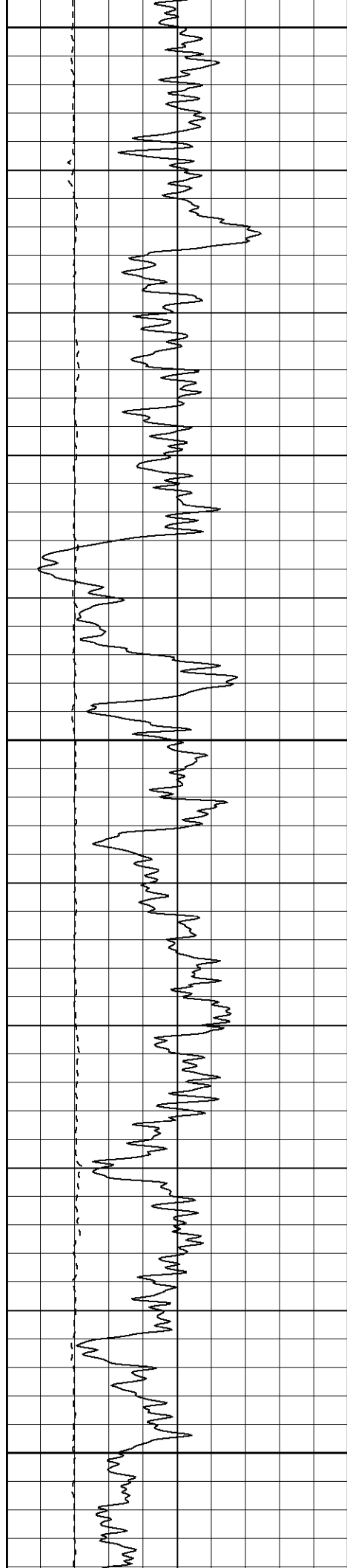




1700

1750

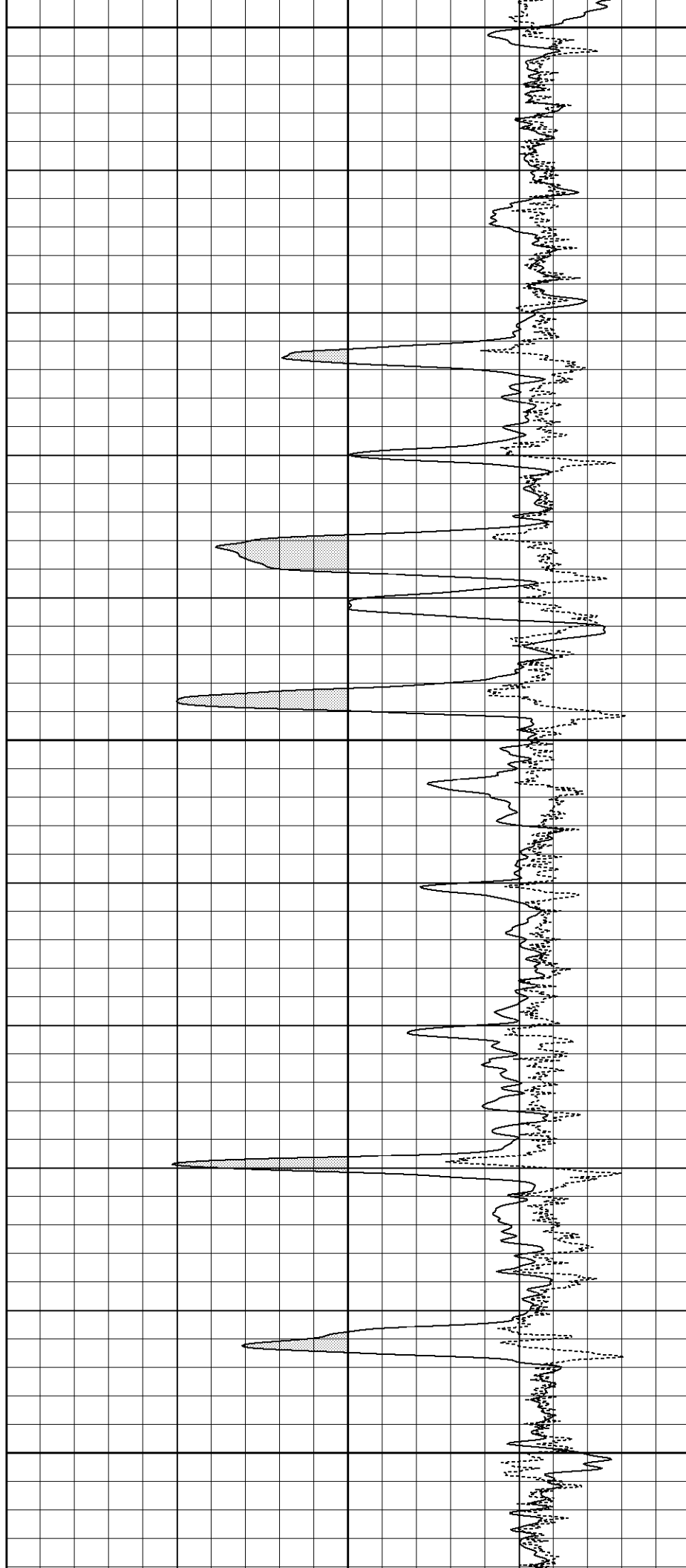


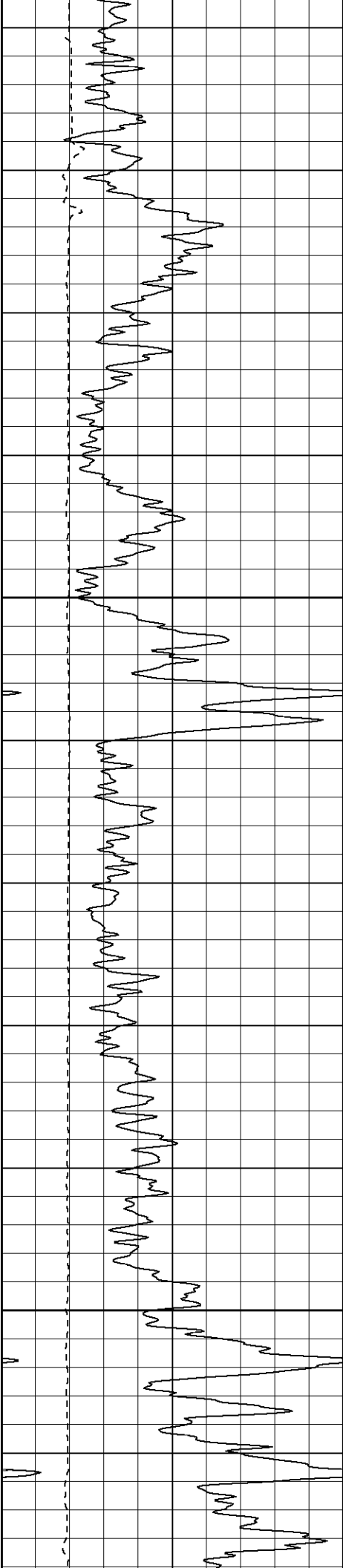


1800

1850

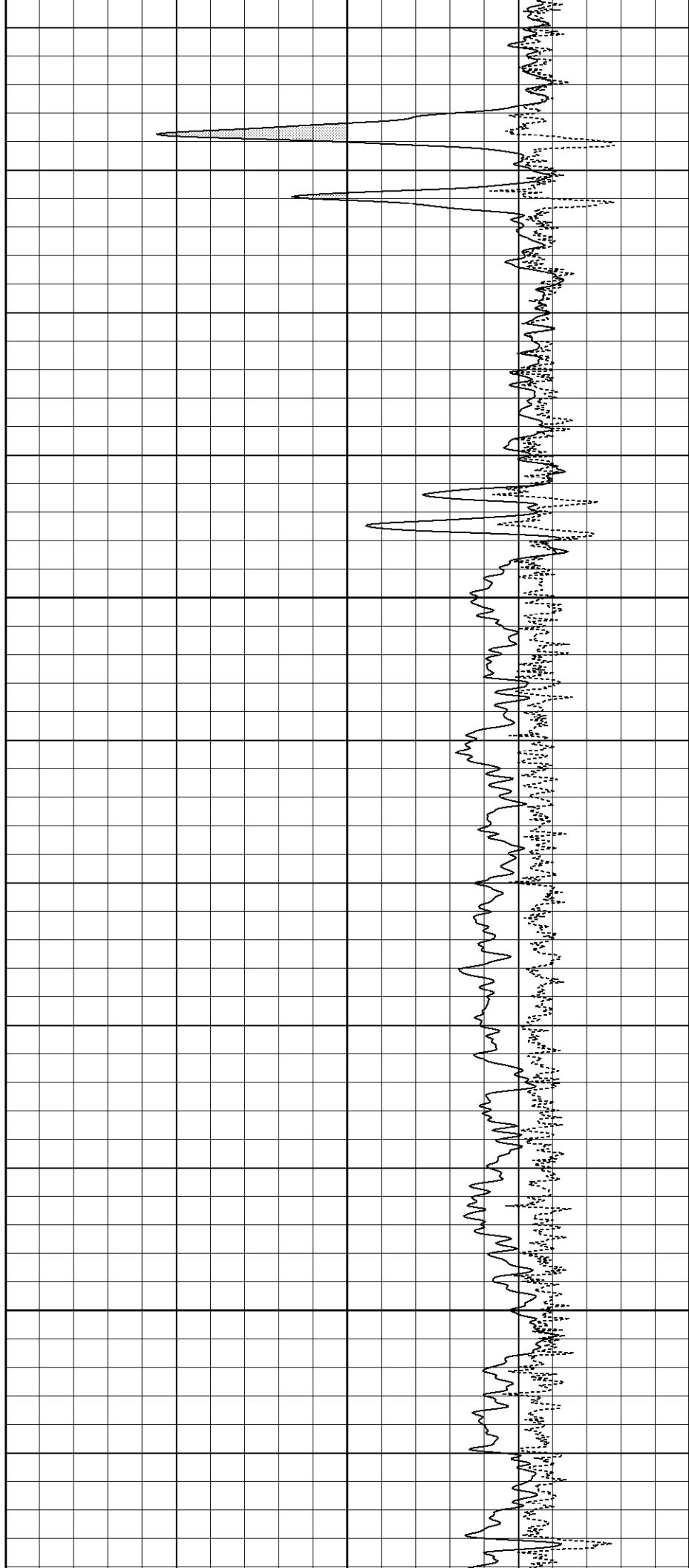
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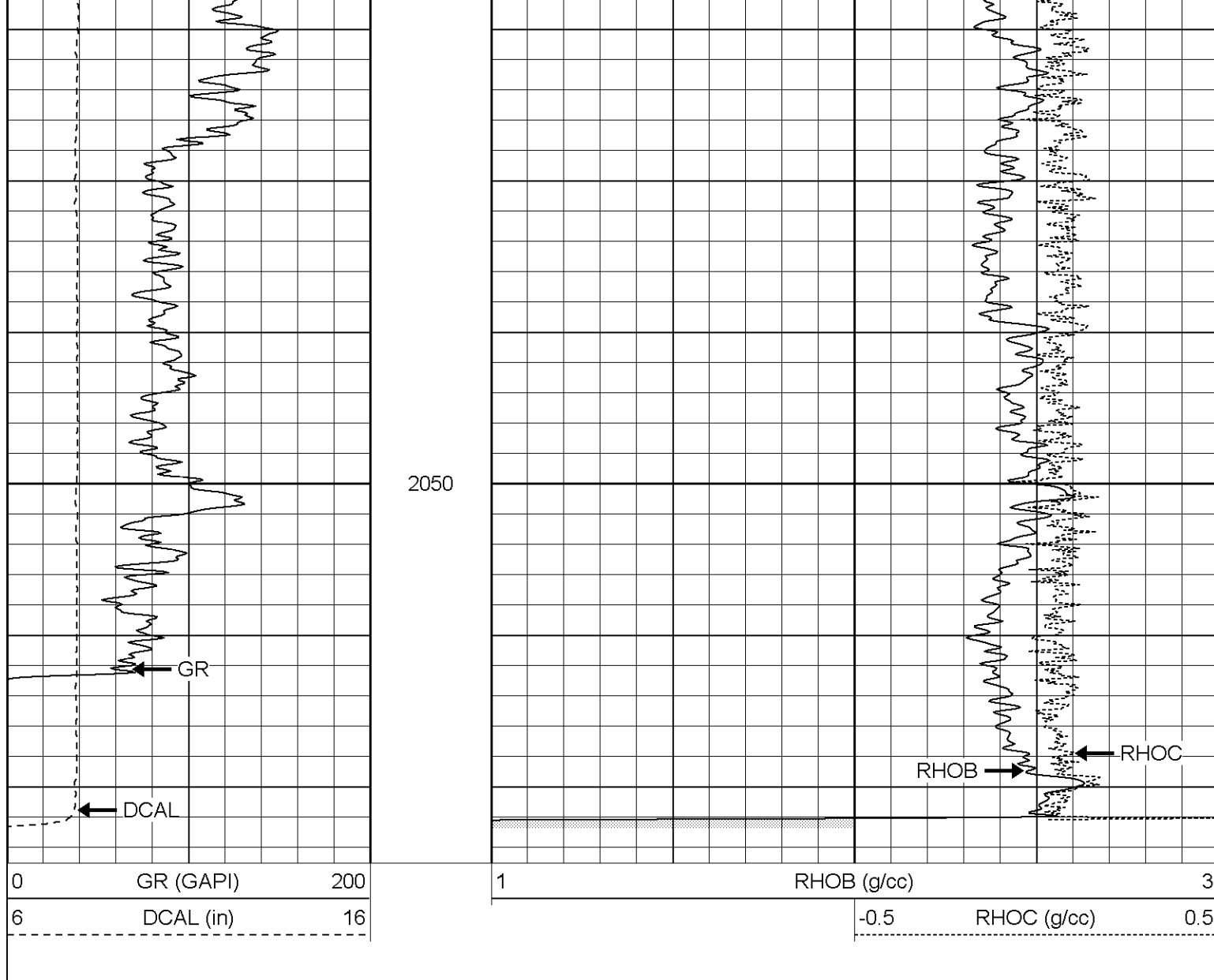




1950

2000





### Compensated Density Calibration Report

Serial-Model: 2388-G  
 Source / Verifier: csv-j12 / blocks  
 Master Calibration Performed: Wed Sep 07 08:46:50 2005

#### Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	831.48	469.26	cps
Aluminum	2.590	g/cc	189.85	333.47	cps
Spine Angle = 76.98			Density/Spine Ratio = 0.580		
	Size		Reading		
Small Ring	7.85	in	1.41	V	
Large Ring	14.00	in	4.56	V	

### Gamma Ray Calibration Report

Serial Number: 2388OH  
 Tool Model: D  
 Performed: Tue Jul 12 15:13:21 2005

Calibrator Value:	170.0	GAPI
Background Reading:	55.0	cps
Calibrator Reading:	201.0	cps
Sensitivity:	0.6000	GAPI/cps
Neutron Calibration Report		
Serial Number:	5138	
Tool Model:	G	
Performed:	Thu Aug 25 08:54:18 2005	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	15.92		None	0.75	1.50	5.00
NEU	14.12		NEU-G (5138) Gearhart Epithermal	5.75	3.50	85.00
GR	8.92		GR-D (2388OH) Gearhart	2.50	3.63	74.00
LSD	2.83		CDL-G (2388) Gearhart	6.92	4.00	201.00
DCAL	2.50					
SSD	2.25					
Dataset:			/field/well/run1/_plots/_jobs_/cdl			
Total Length:			15.92 ft			
Total Weight:			365.00 lb			
O.D.			4.00 in			