

**COMPENSATED DENSITY
NEUTRON
LOG**

Company		XTO Energy Inc.	
Well		Hill Ranch 01-08	
Field		Purgatorie River	
County		Las Animas	
State		CO	
Location:		API # : 05 071 09559 00	
SEC 01 TWP 35S RGE 68W		2546' FNL & 654' FEL	
Permanent Datum		Ground Level	Elevation 8518'
Log Measured From		Ground Level	
Drilling Measured From		Ground Level	
Other Services		DIL	
Date		2/5/10	
Run Number		One	
Depth Driller		2818'	
Depth Logger		2815'	
Bottom Logged Interval		2813'	
Top Log Interval		Surface Casing	
Casing Driller		451'	
Casing Logger		454'	
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		12:00 a.m.	
Time Logger on Bottom		3:25 a.m.	
Maximum Recorded Temperature		119F	
Equipment Number		045	
Location		Trinidad	
Recorded By		Worley	
Witnessed By		Mr. Dalton King	

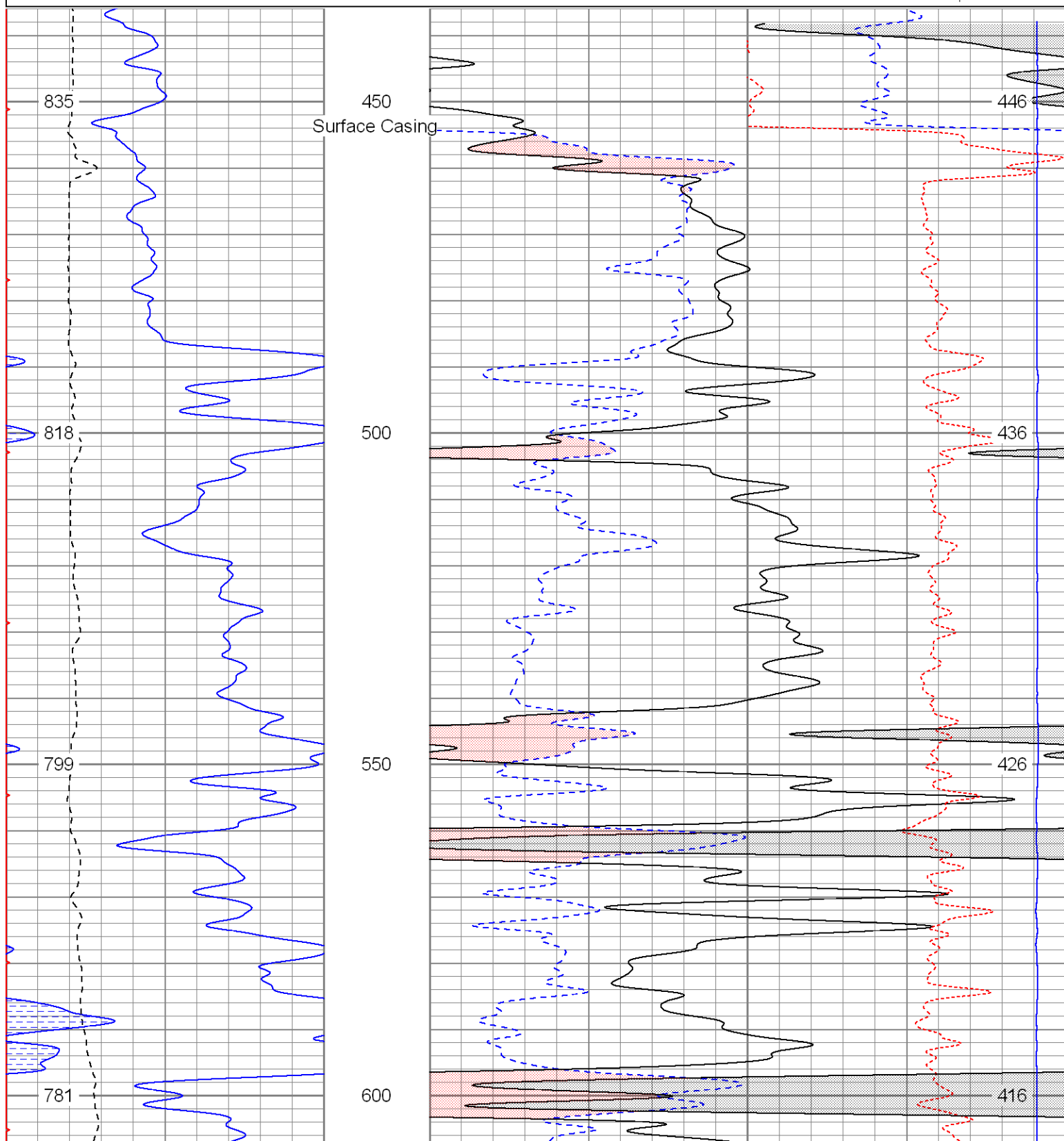
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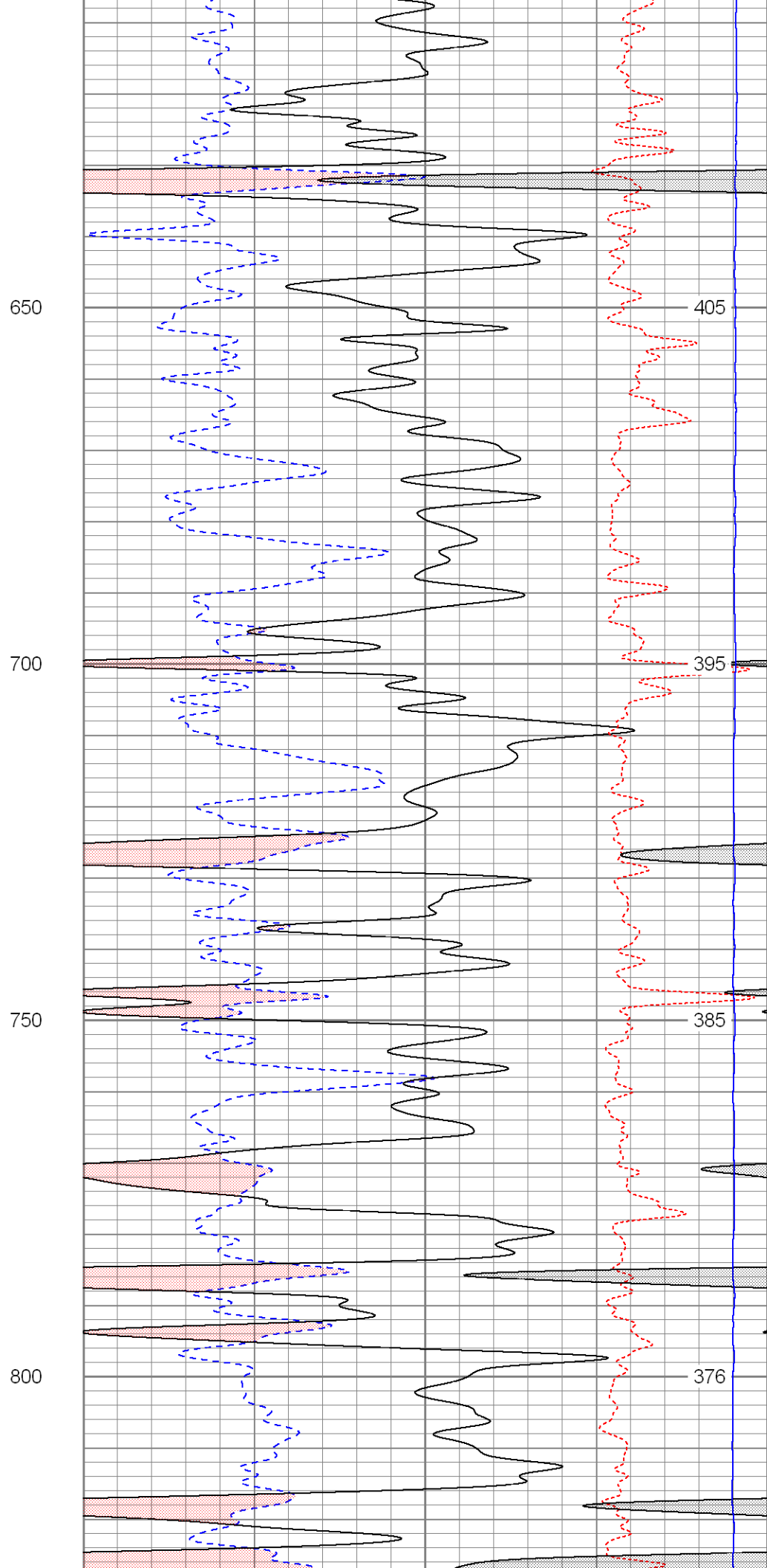
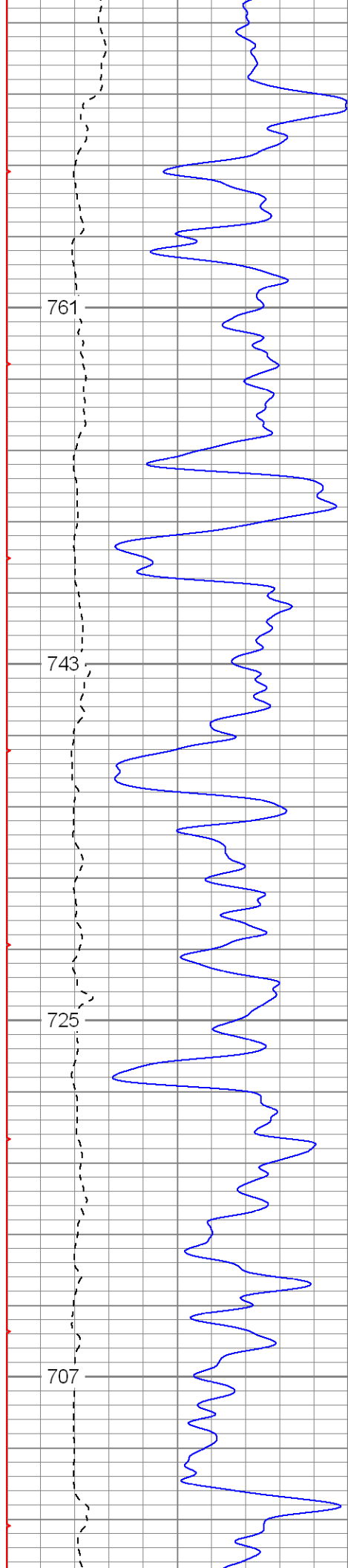
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

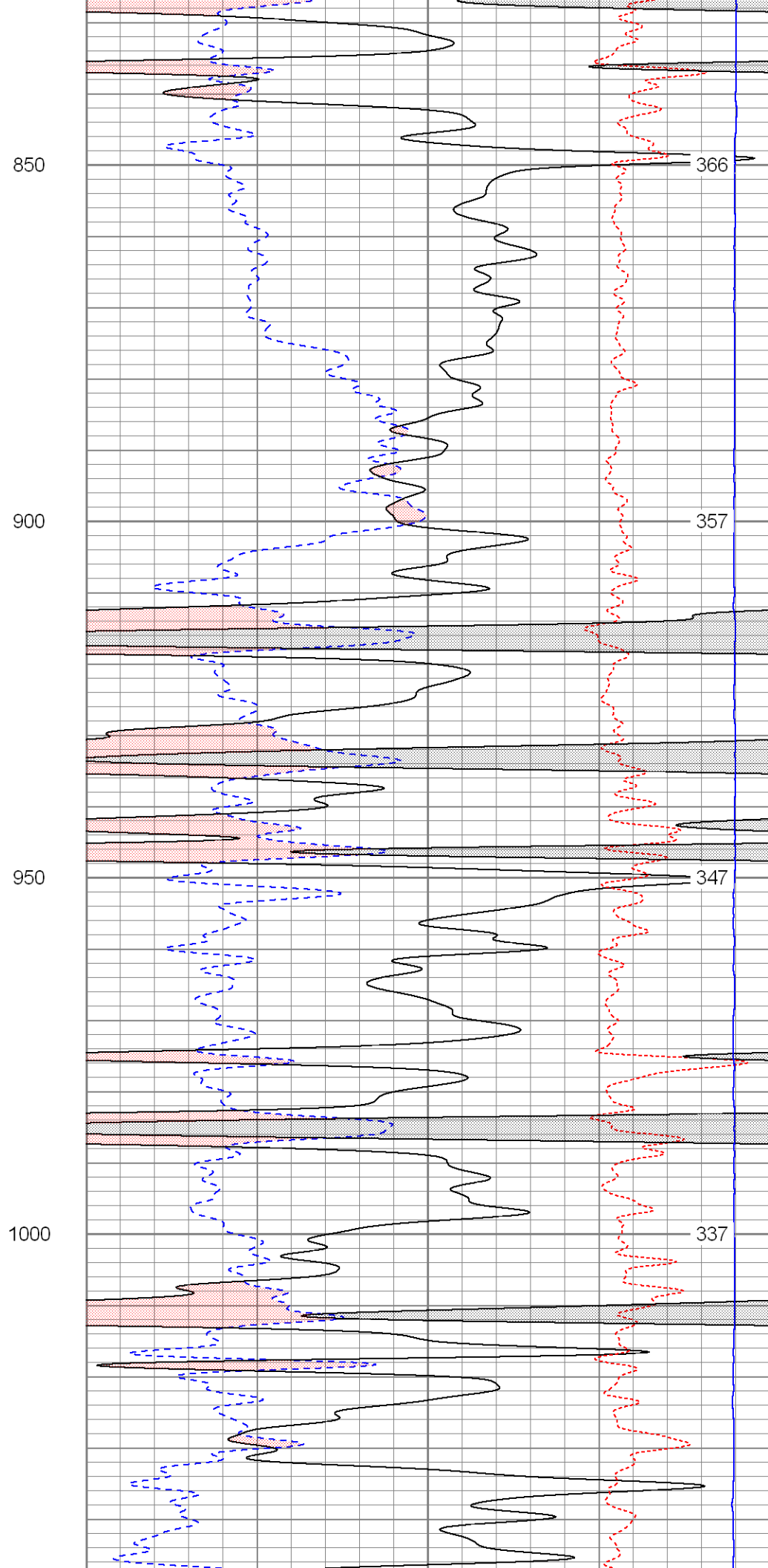
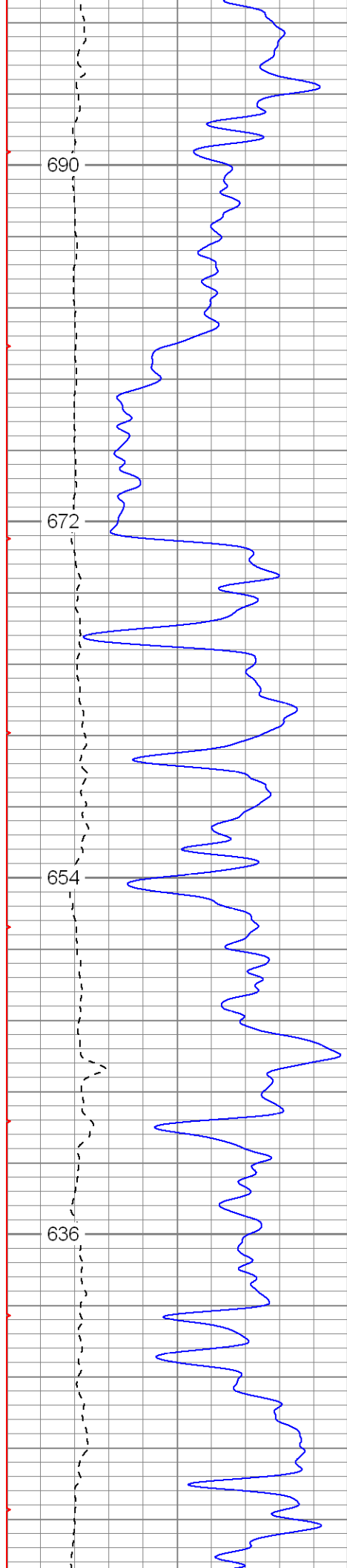
Comments

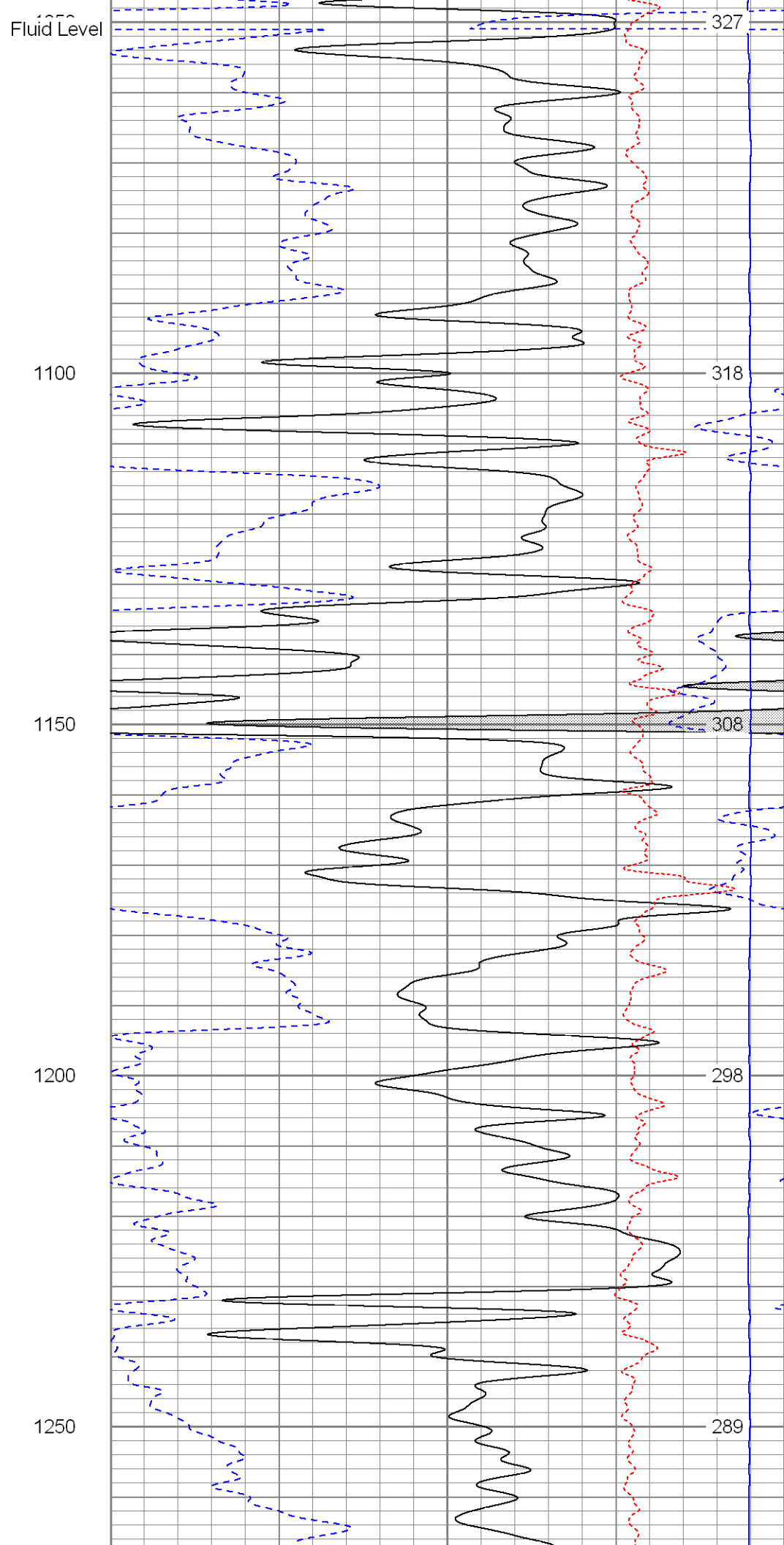
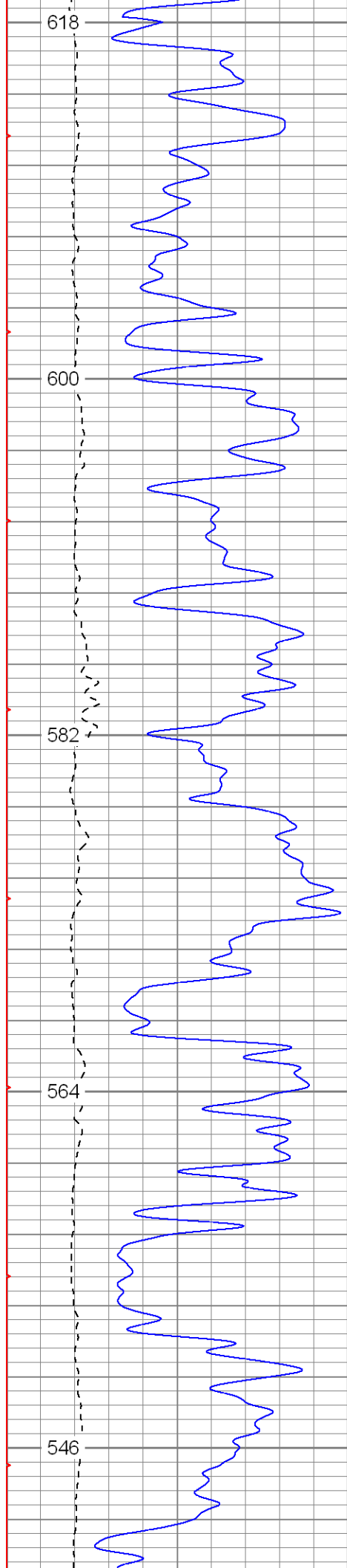
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Dataset Pathname: pass4.1
Presentation Format: cdnl2
Dataset Creation: Fri Feb 05 06:33:30 2010 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

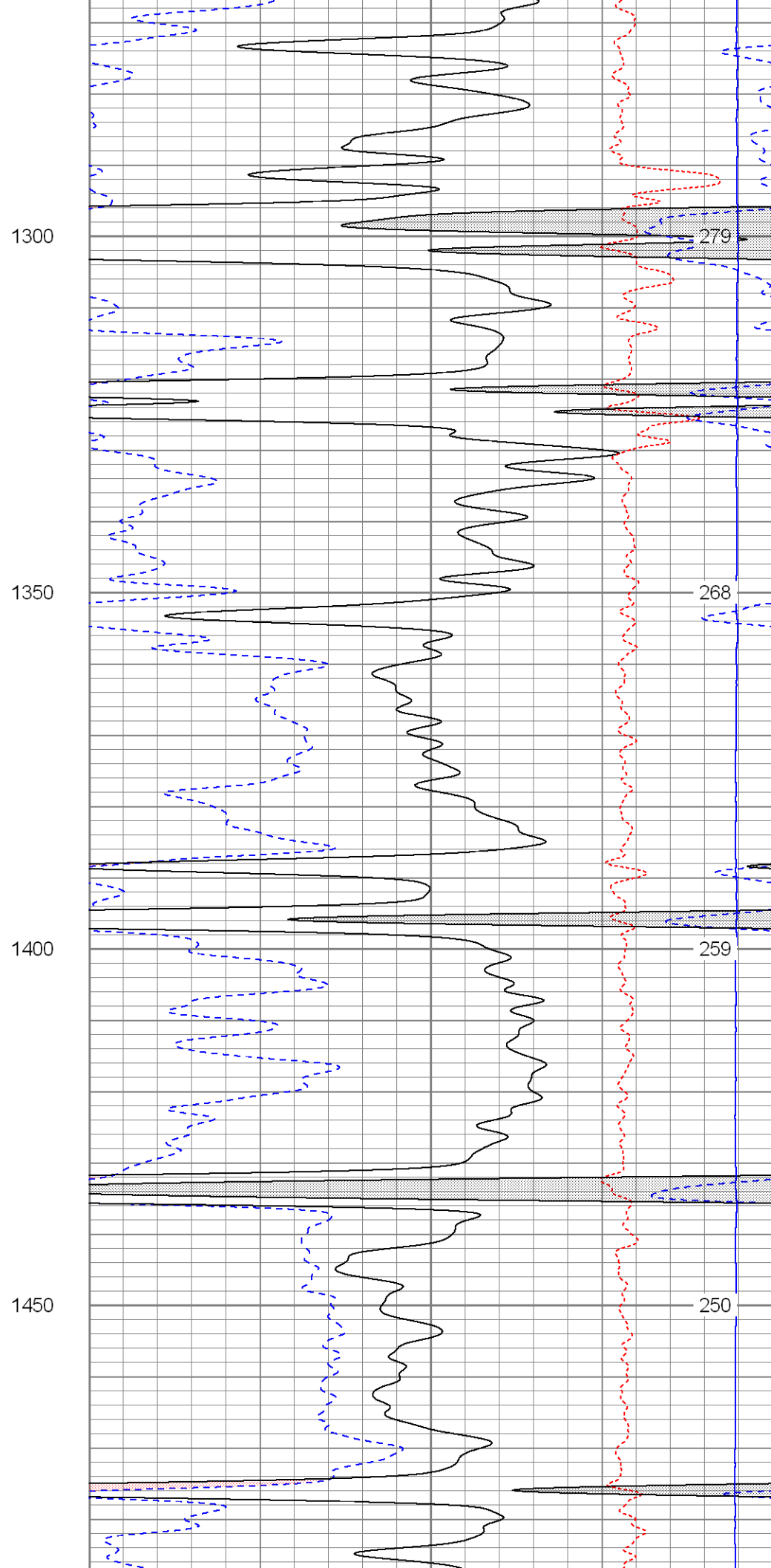
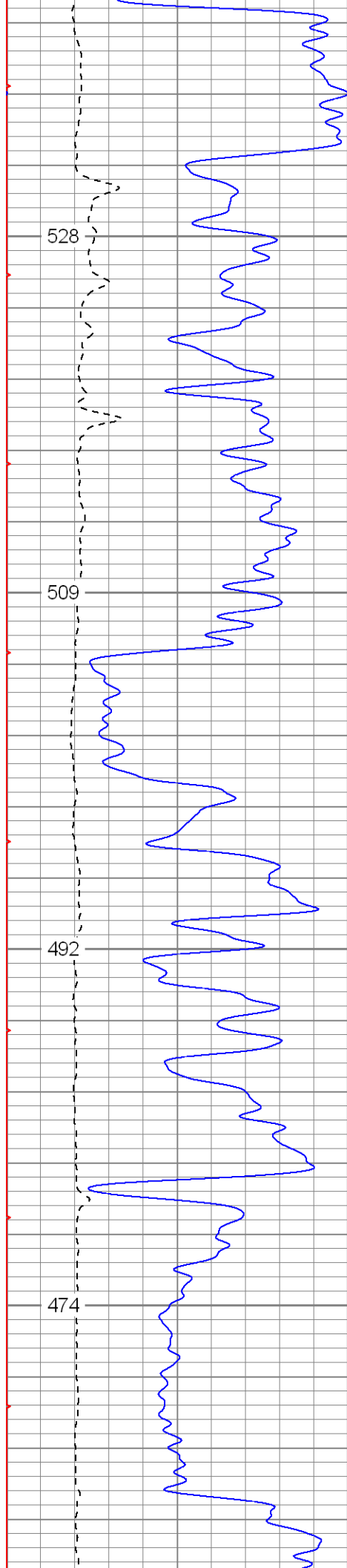
0	GR (GAPI)	200	30	NPOR (pu)	-10	
6	DCAL (in)	16	30	DPOR (pu)	-10	
TBHV (ft3)			70	DPOR (pu)	30	
				-0.5	RHOC (g/cc)	0.5
				10000	LTEN (lb)	0
						ABHV (ft3)

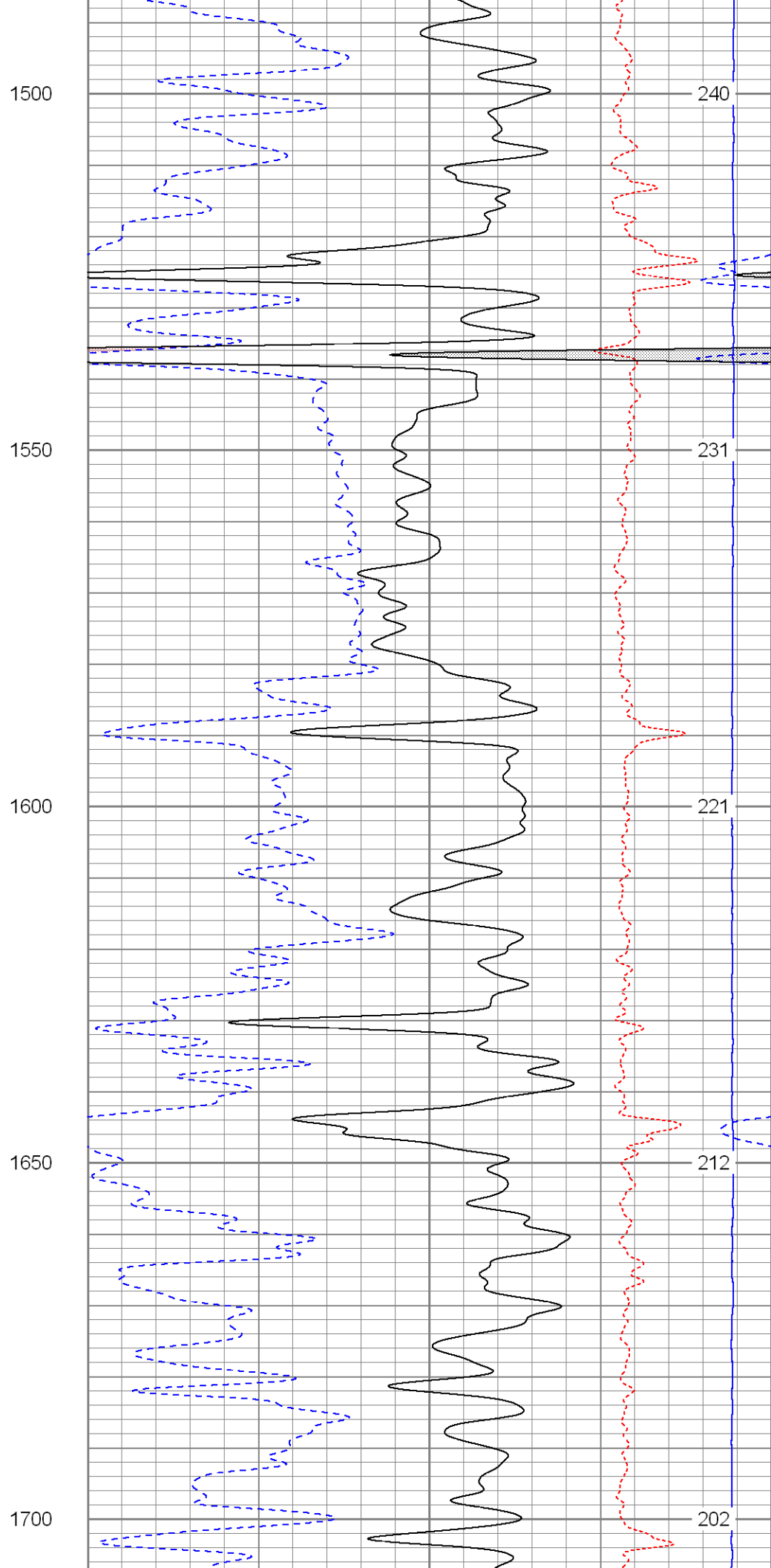
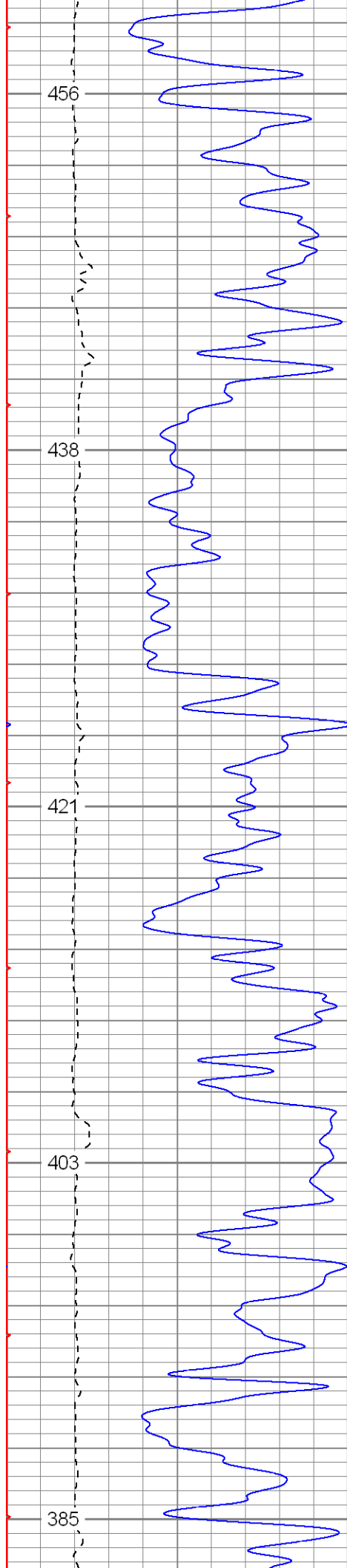


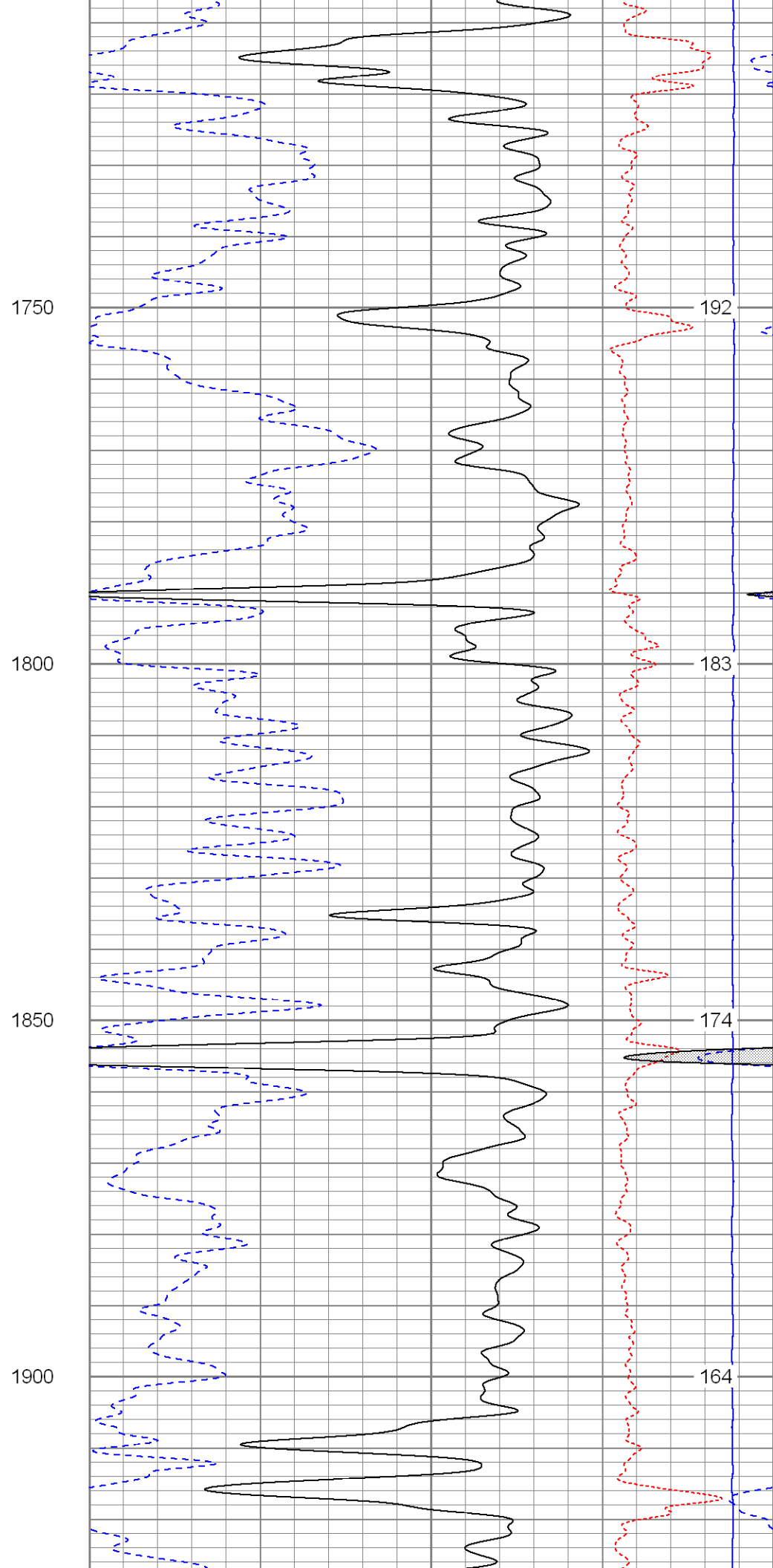
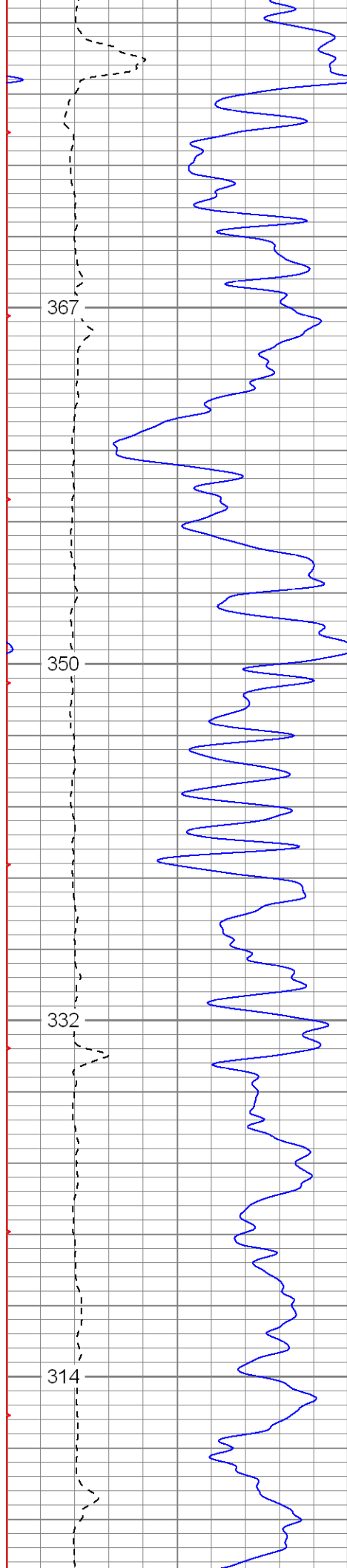


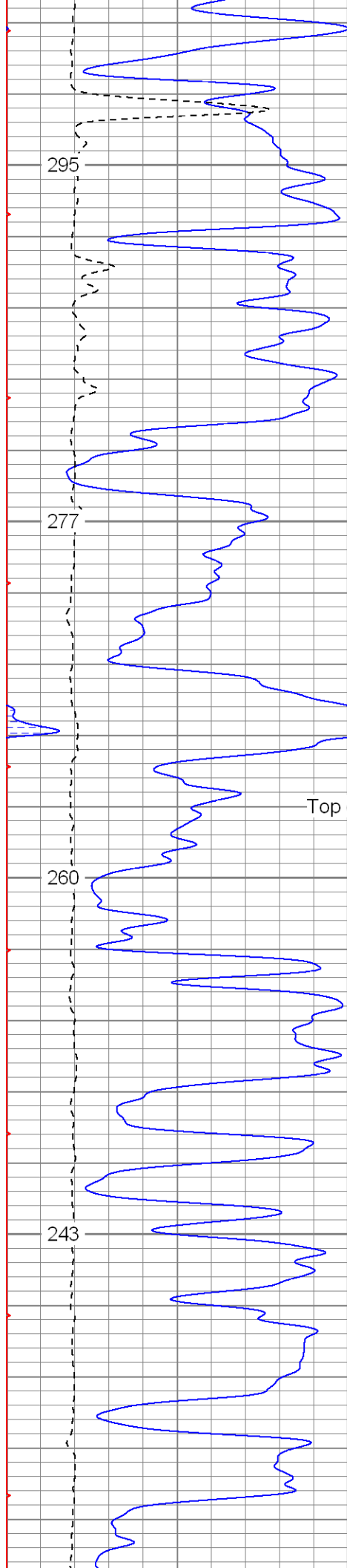












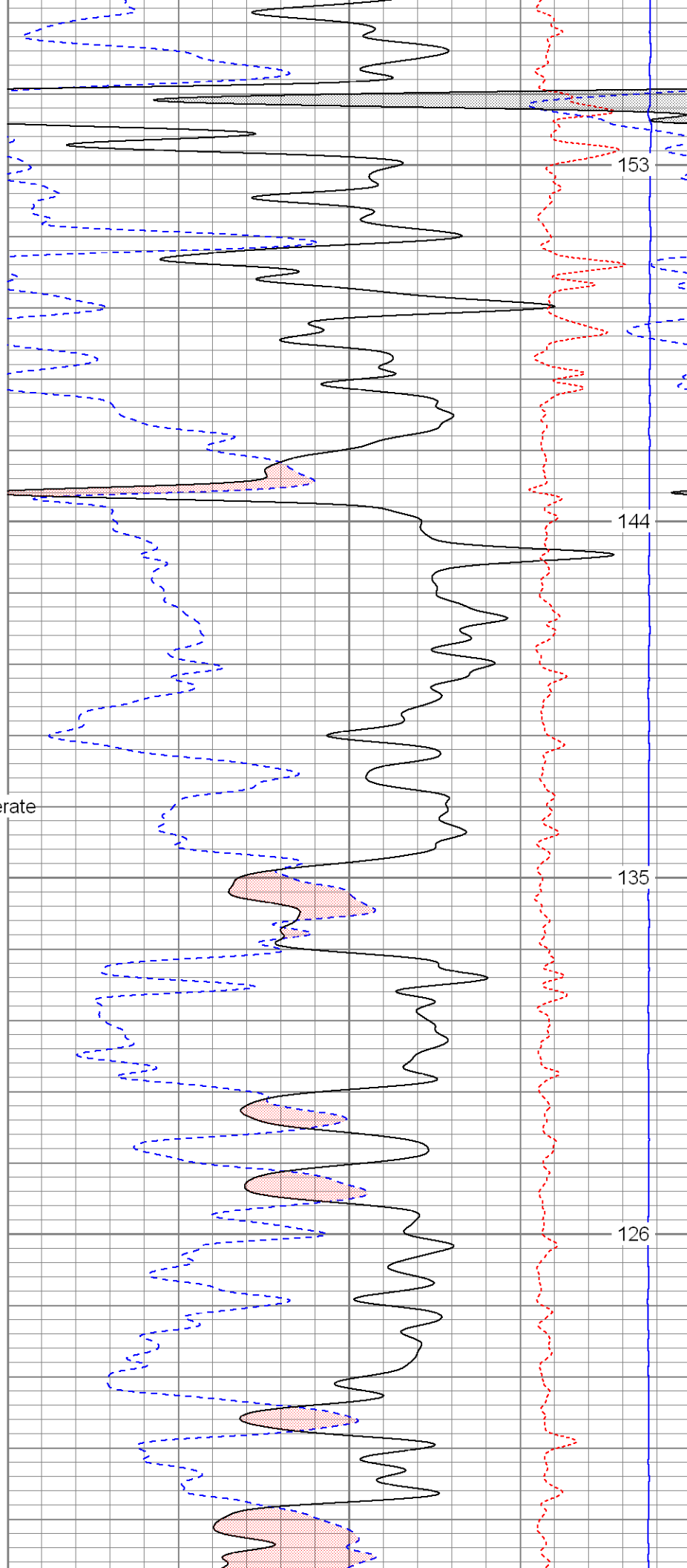
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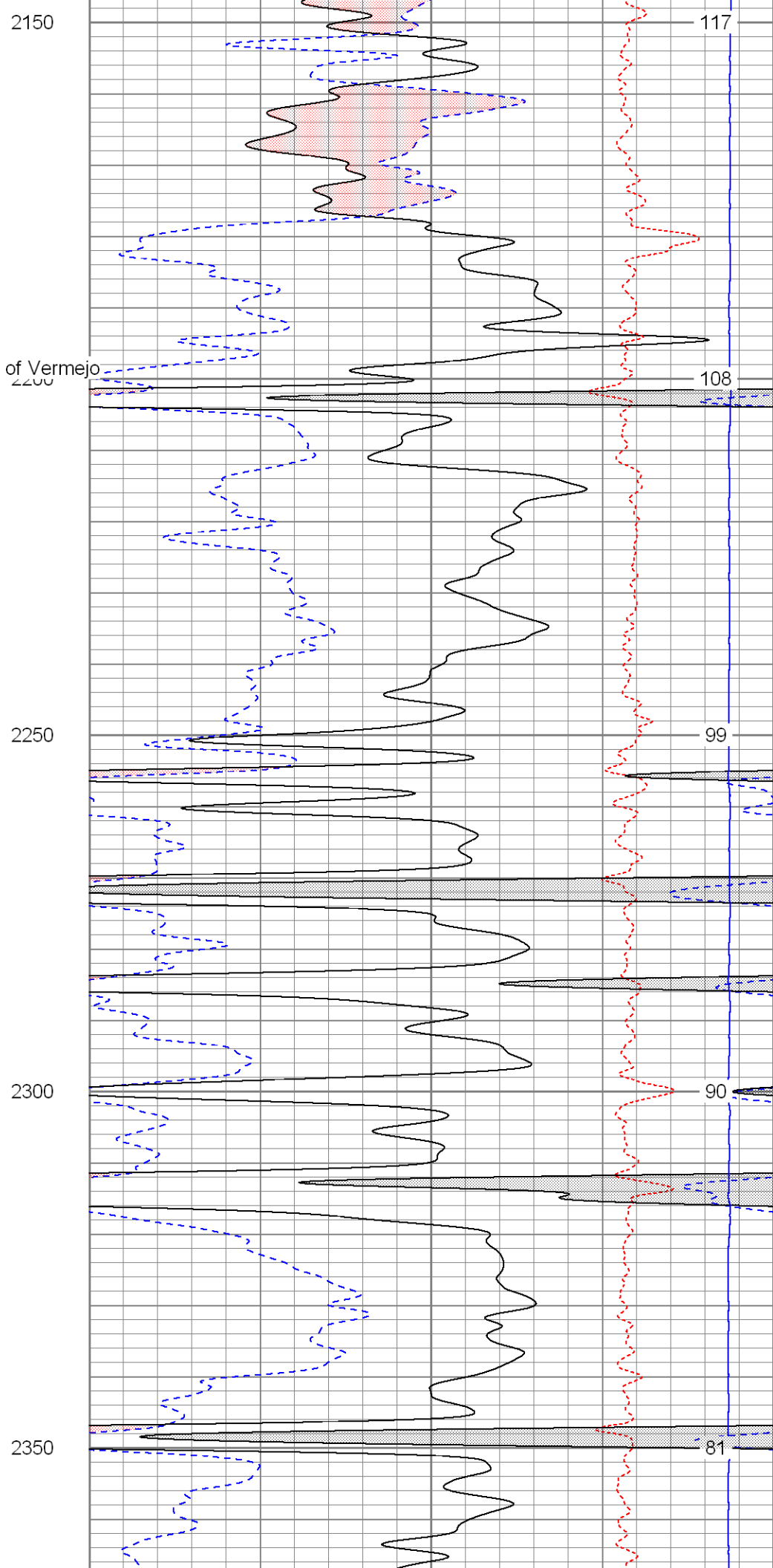
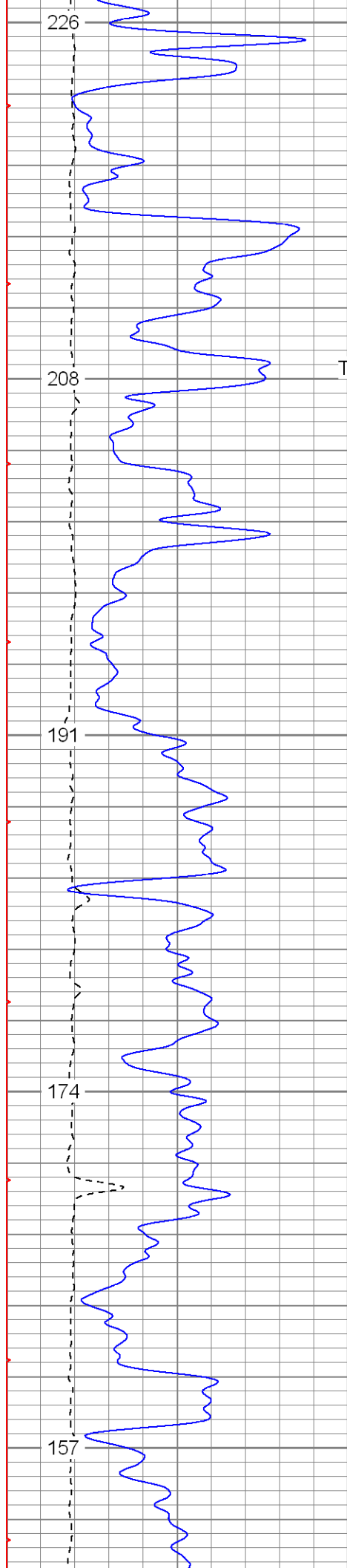
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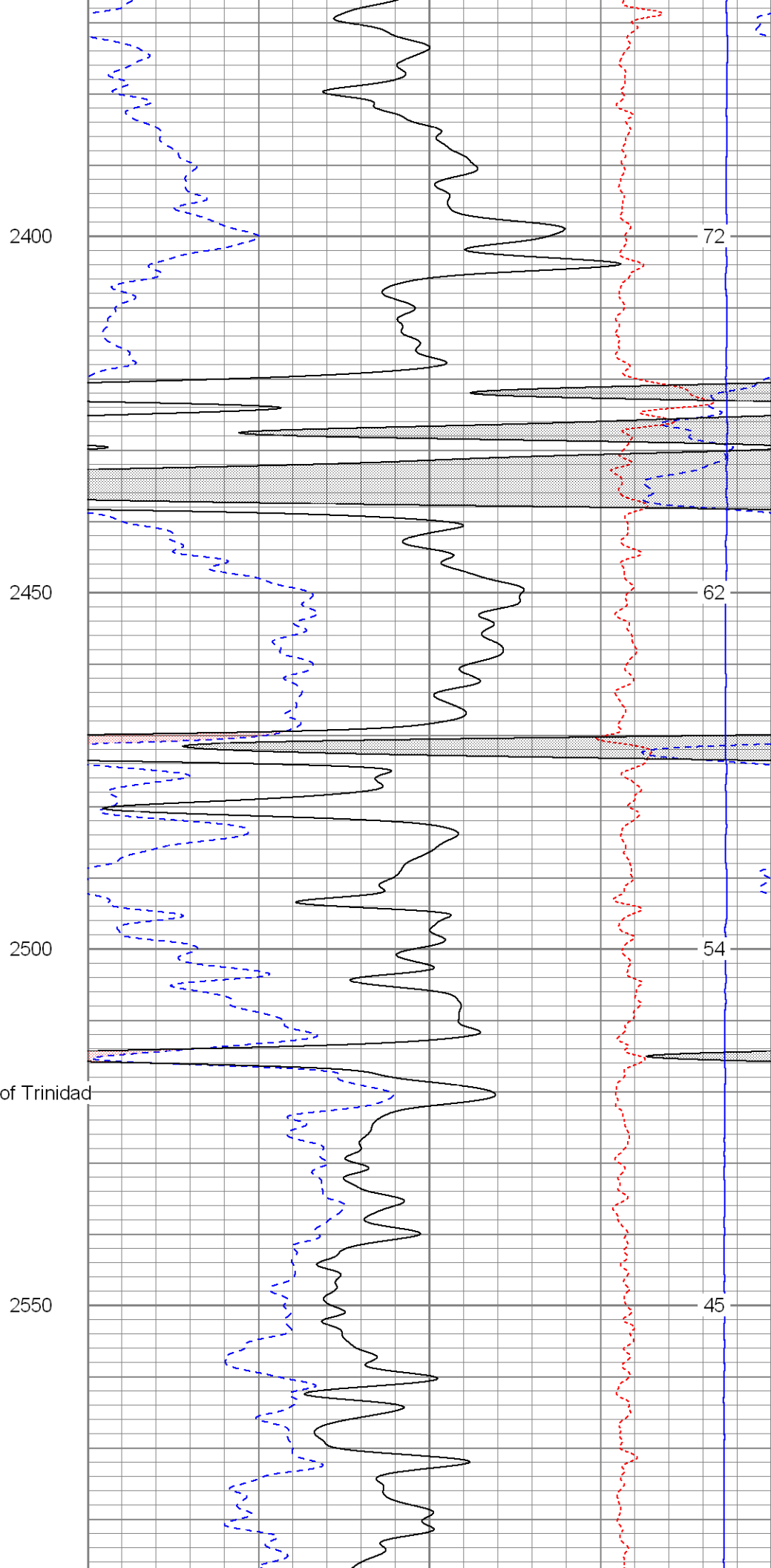
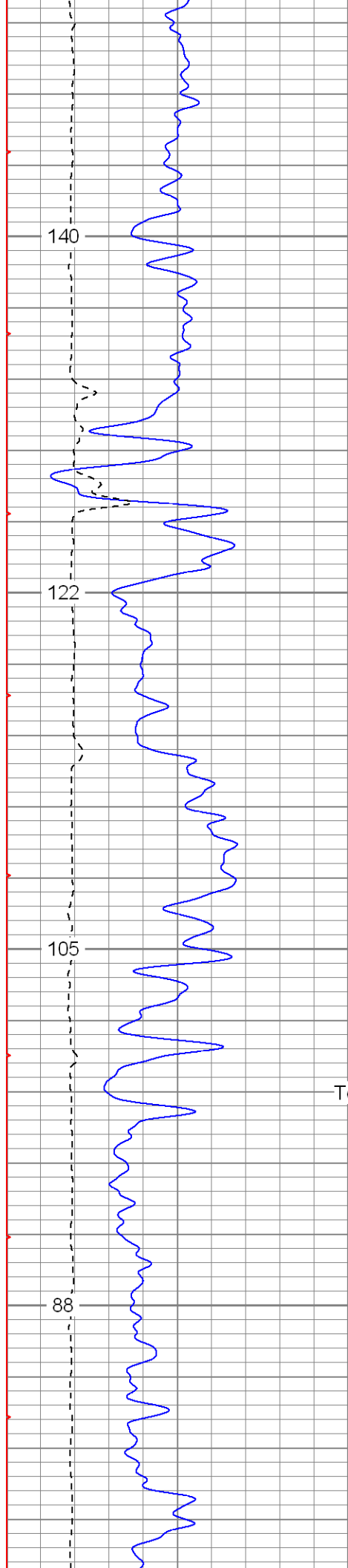
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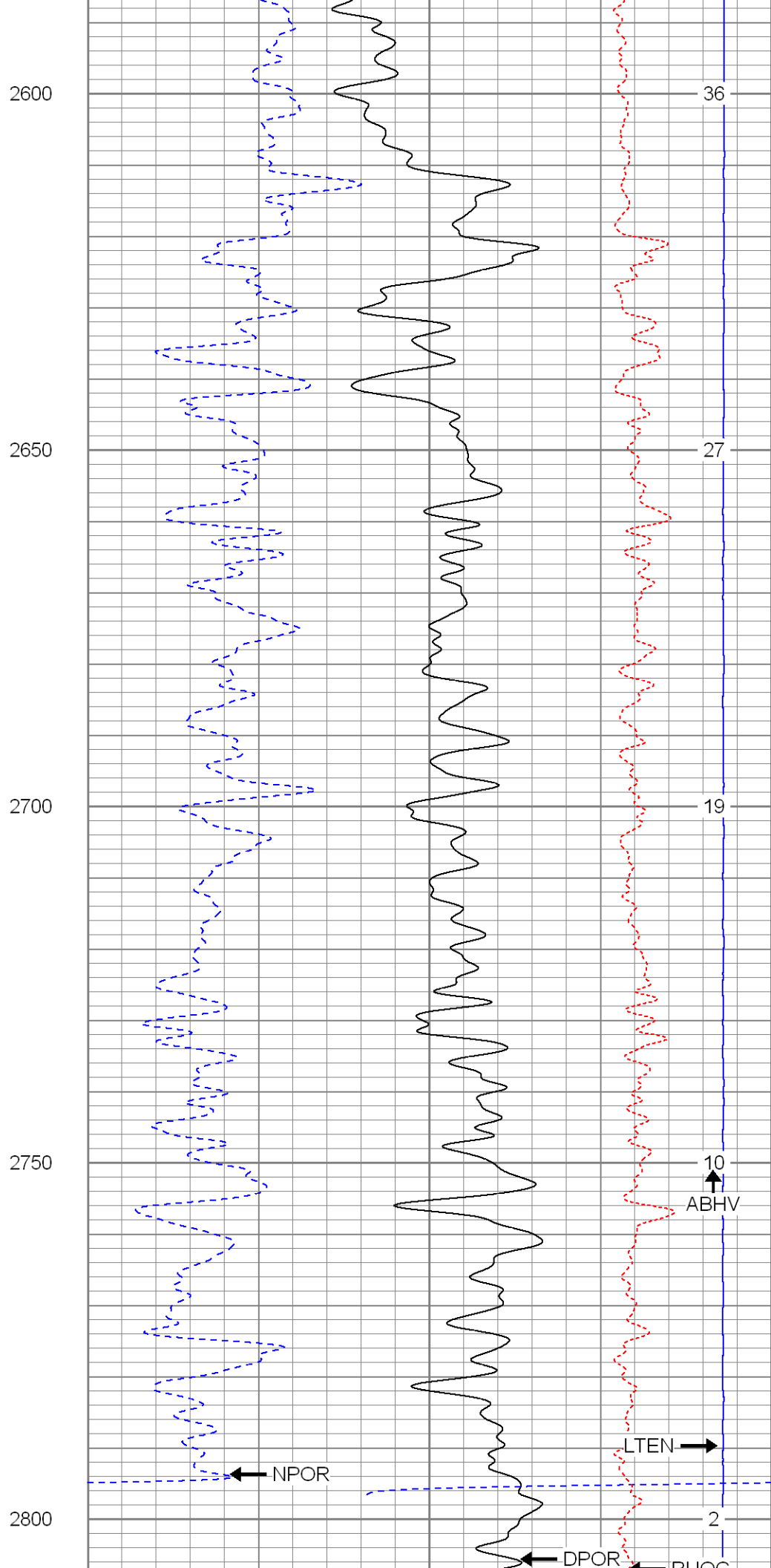
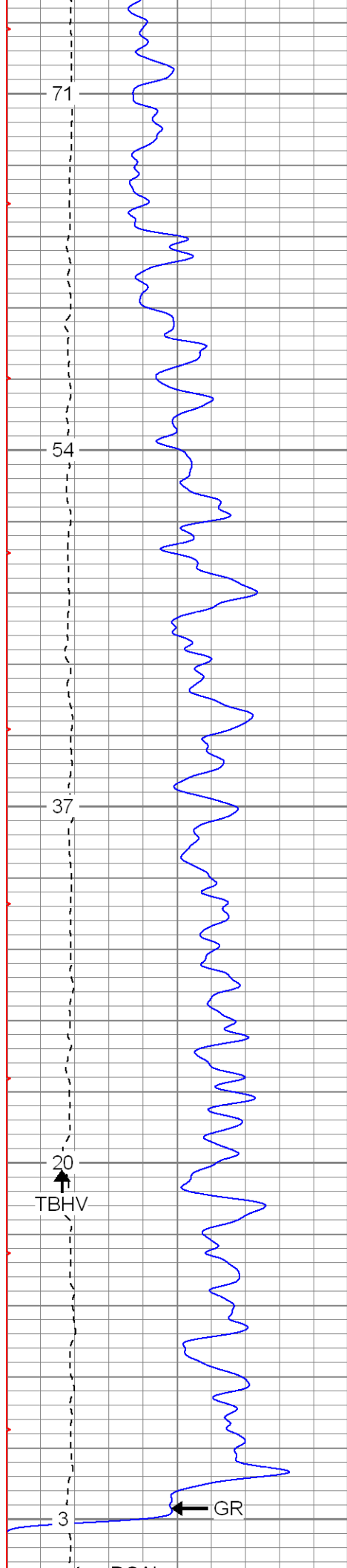
2050

2100









0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
-0.5	RHOC (g/cc)	0.5
10000	LTEN (lb)	0
ABHV (ft3)		



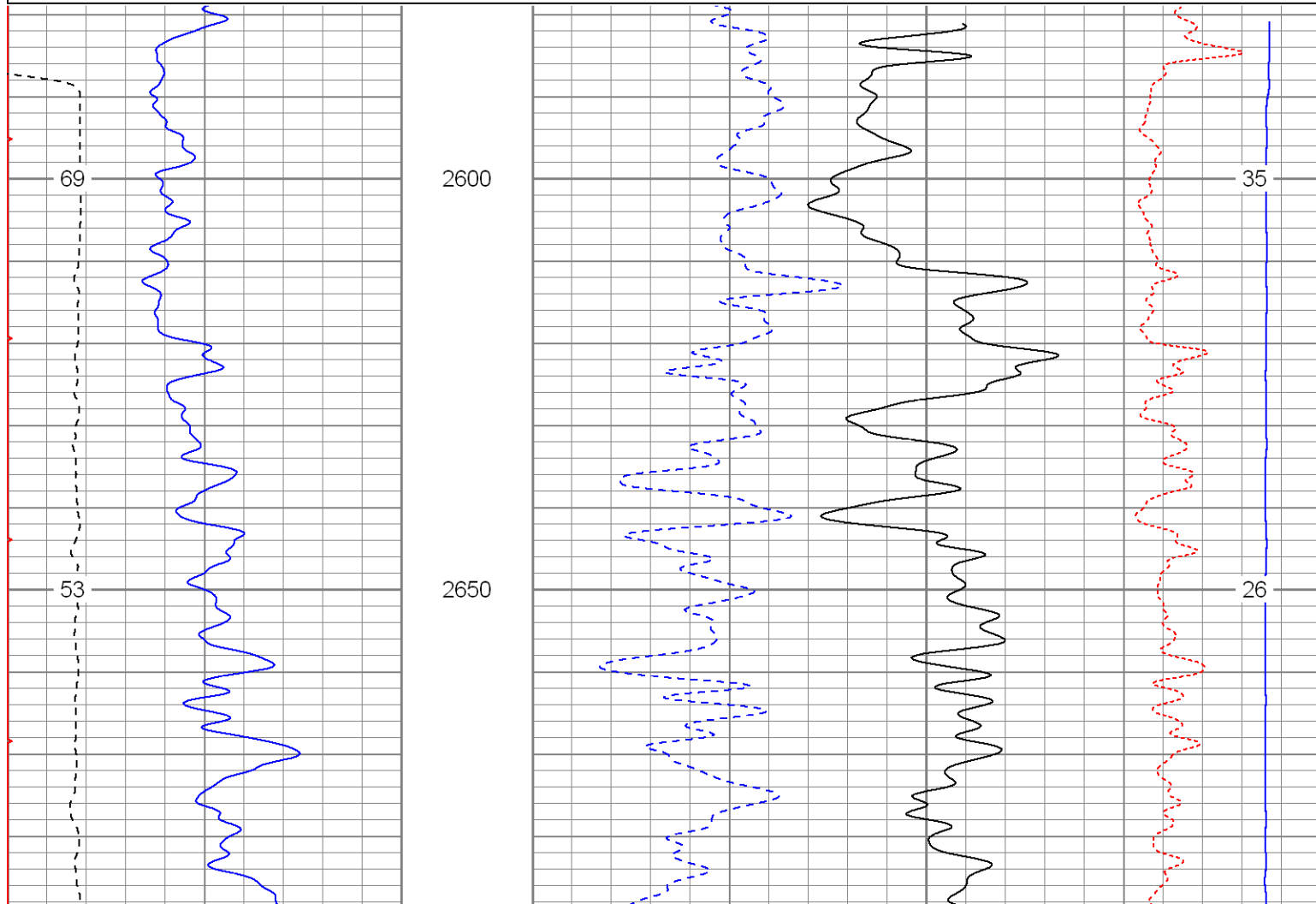
Repeat Section

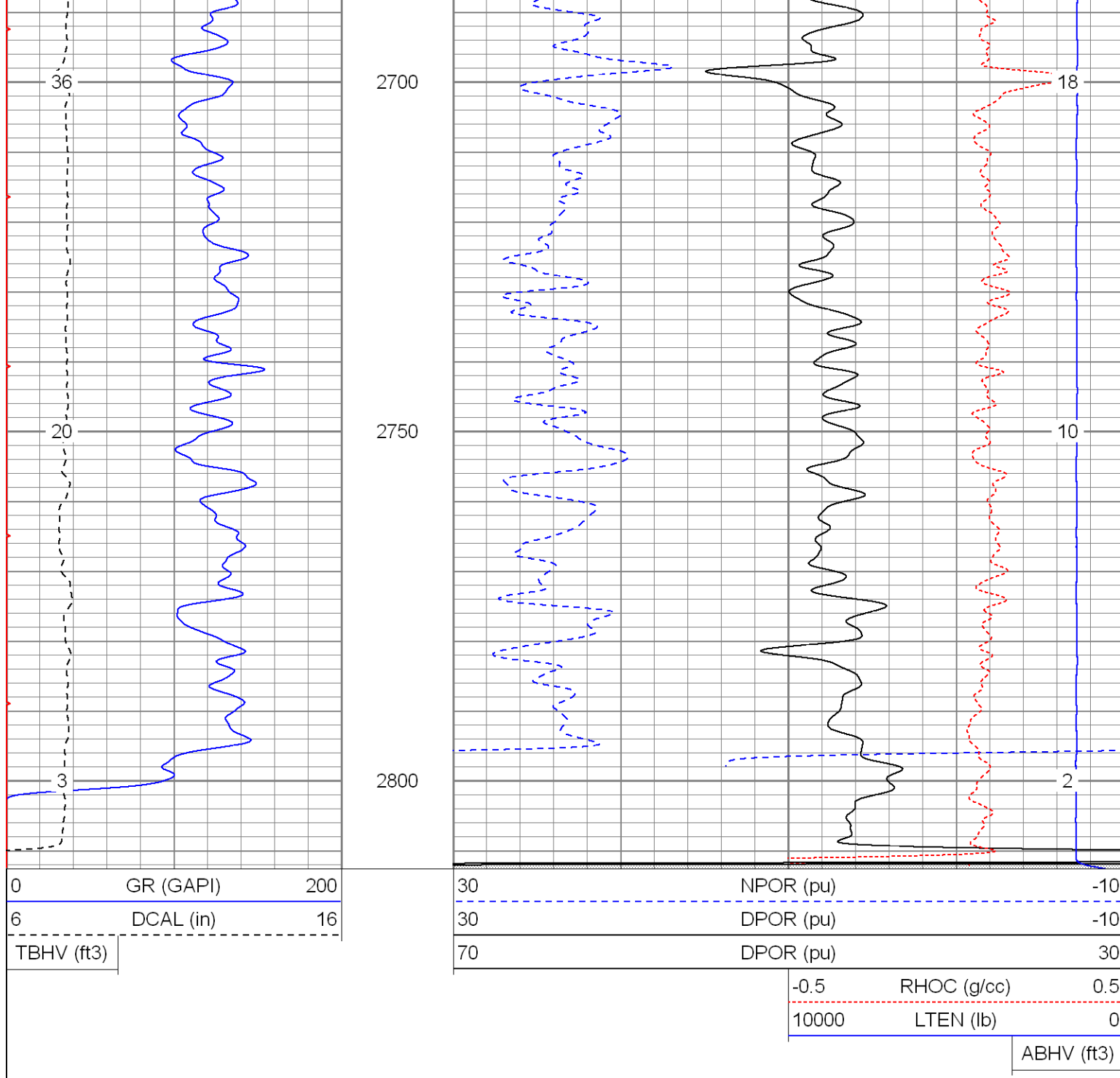
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Dataset Pathname: pass3.1
Presentation Format: cdnl2
Dataset Creation: Fri Feb 05 06:27:14 2010 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

-0.5	RHOC (g/cc)	0.5
10000	LTEN (lb)	0
ABHV (ft3)		

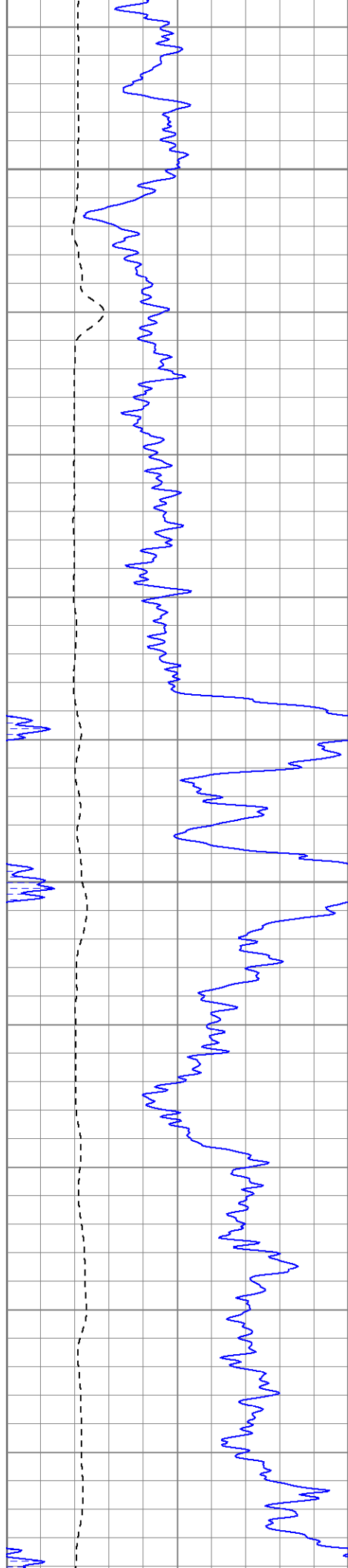




High Resolution Pass

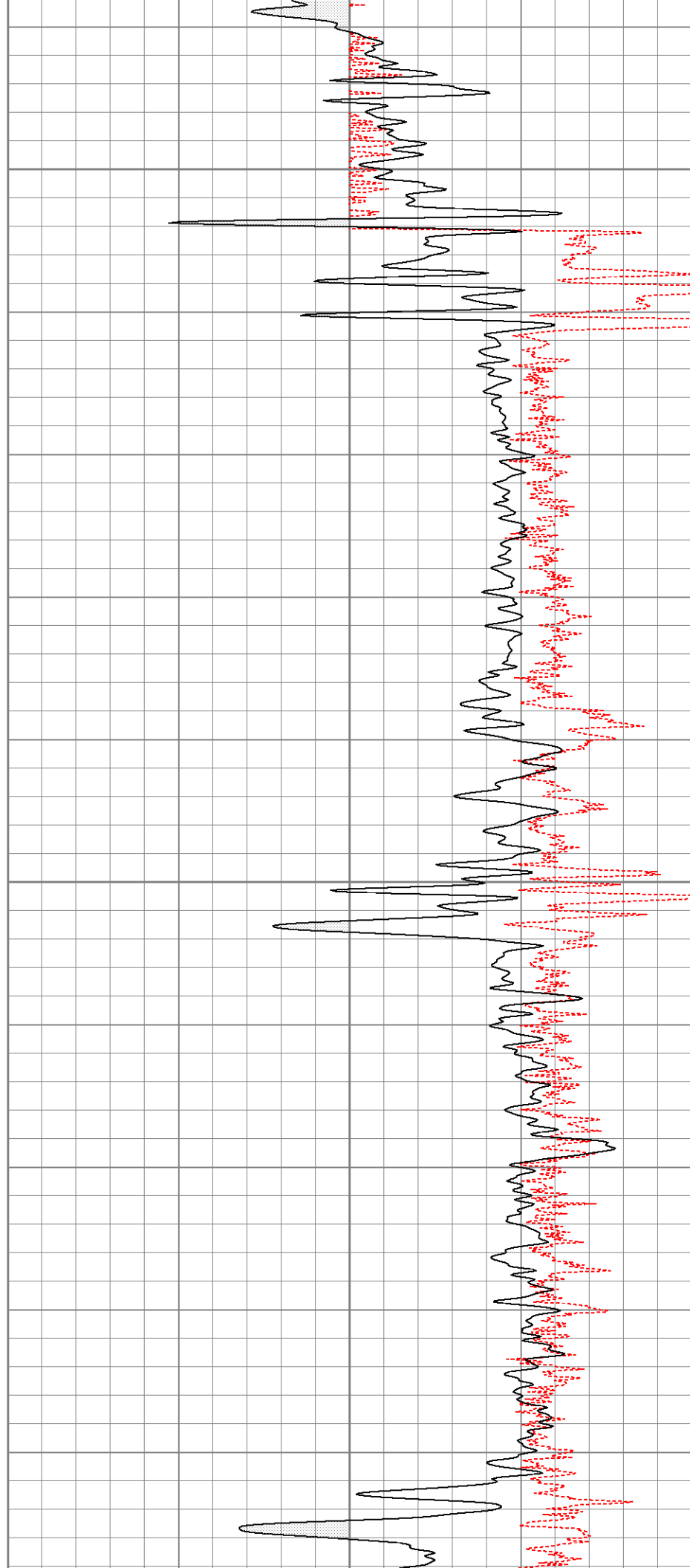
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 Dataset Pathname: pass4.1hr
 Presentation Format: cdlhr
 Dataset Creation: Fri Feb 05 06:41:28 2010 by Calc Open-Cased 071220
 Charted by: Depth in Feet scaled 1:120

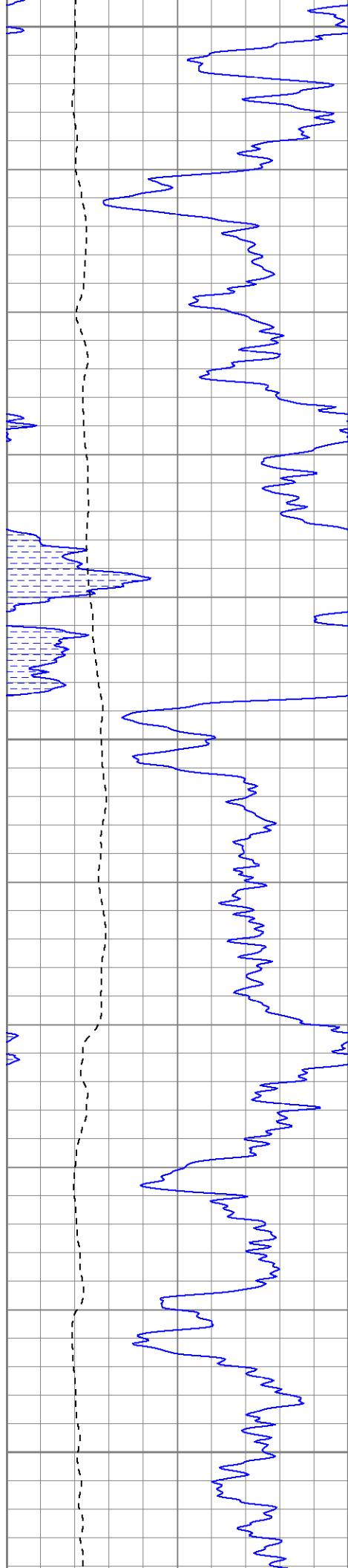
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6	DCAL (in)	16		-0.5	RHOC (g/cc)	0.5



450

500

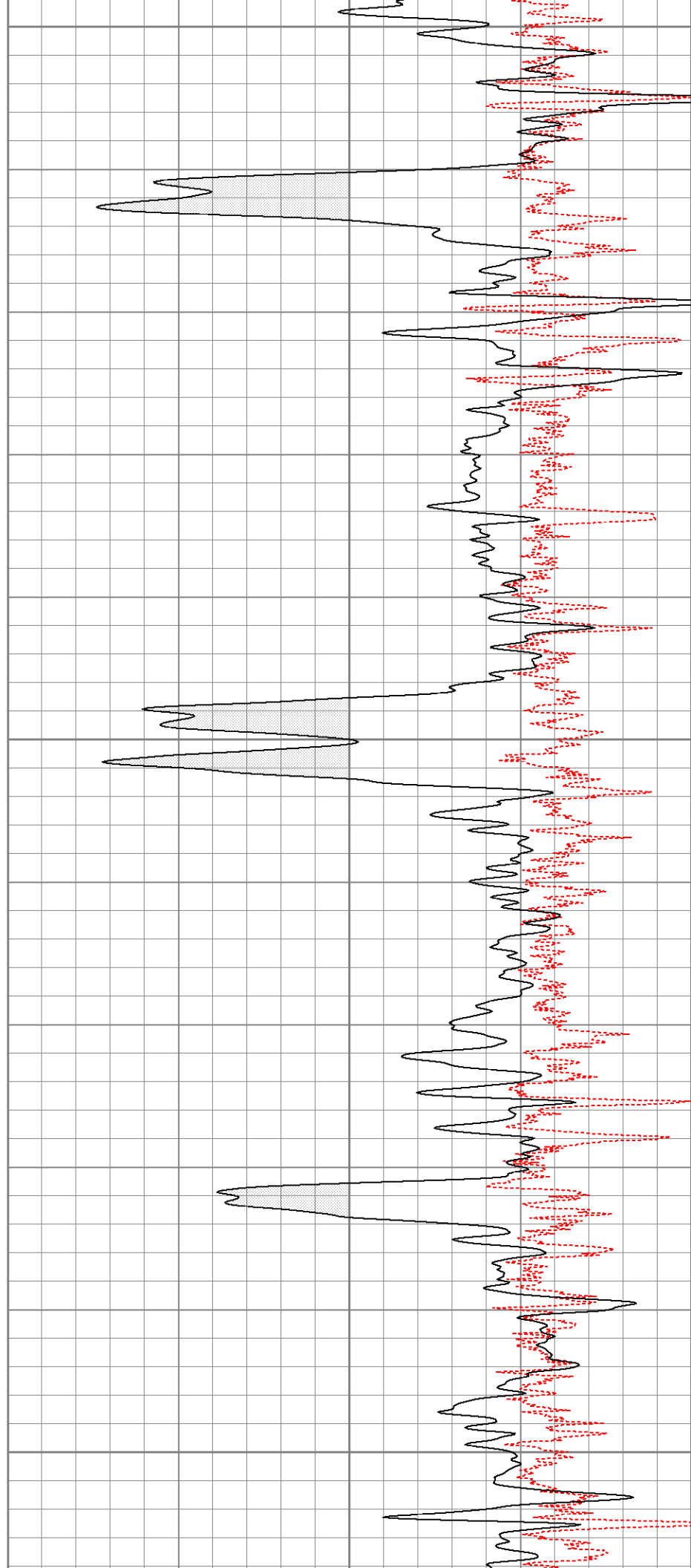


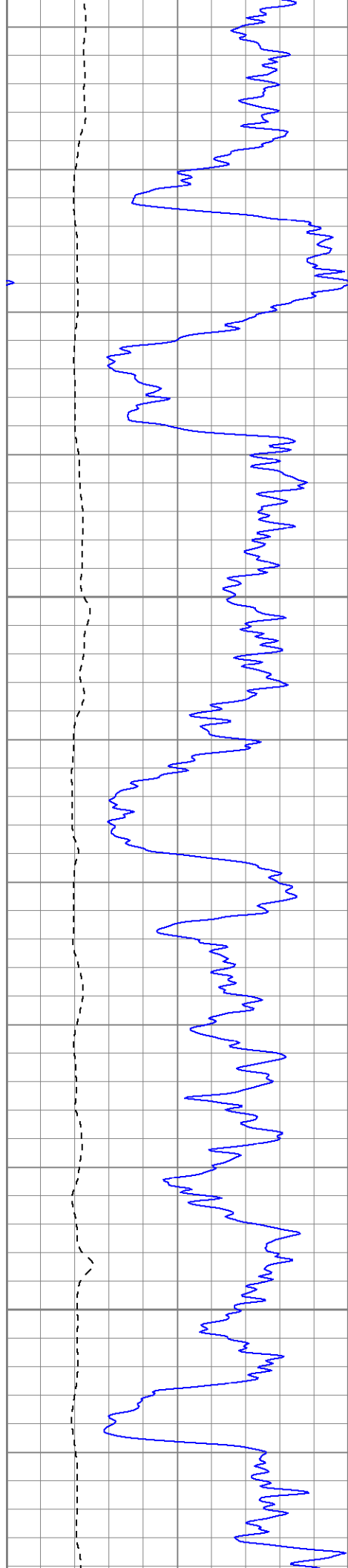


550

600

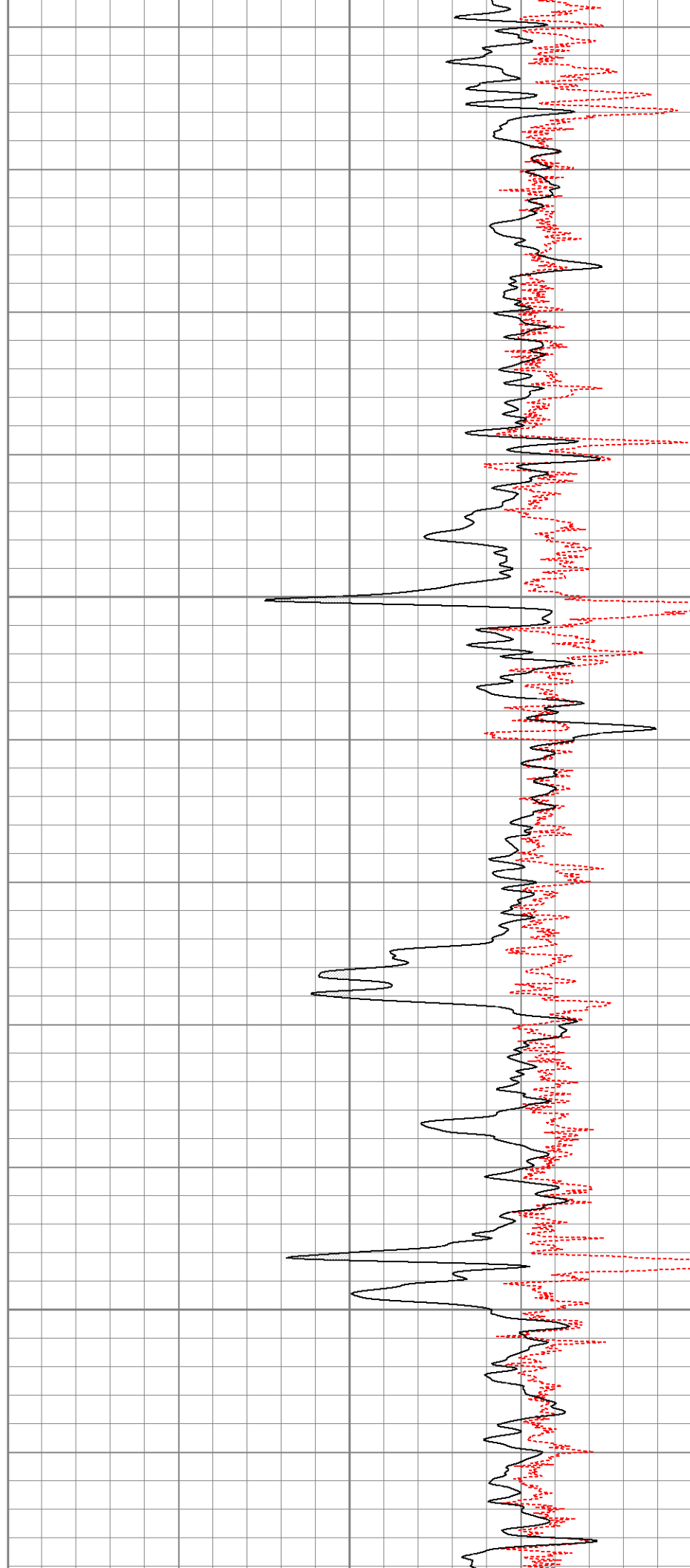
650

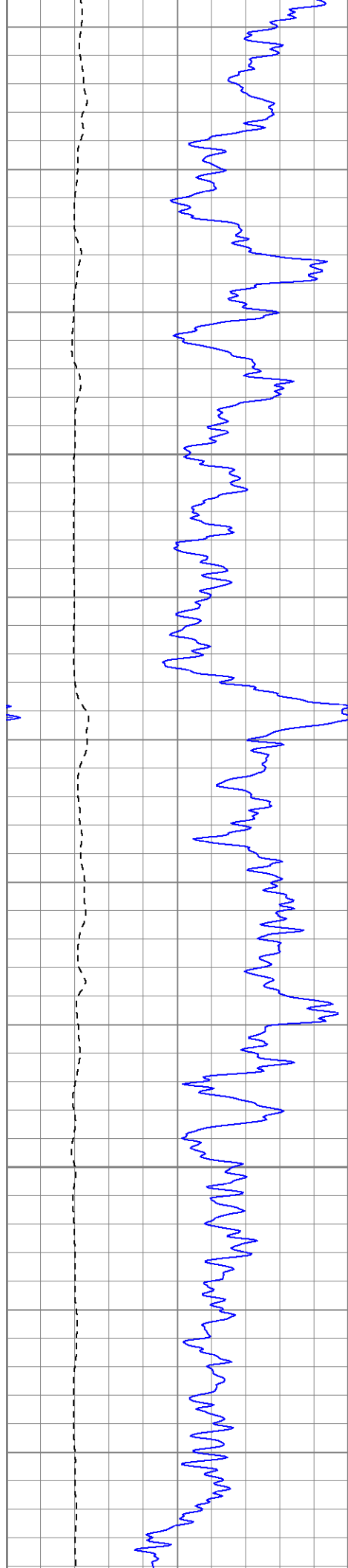




700

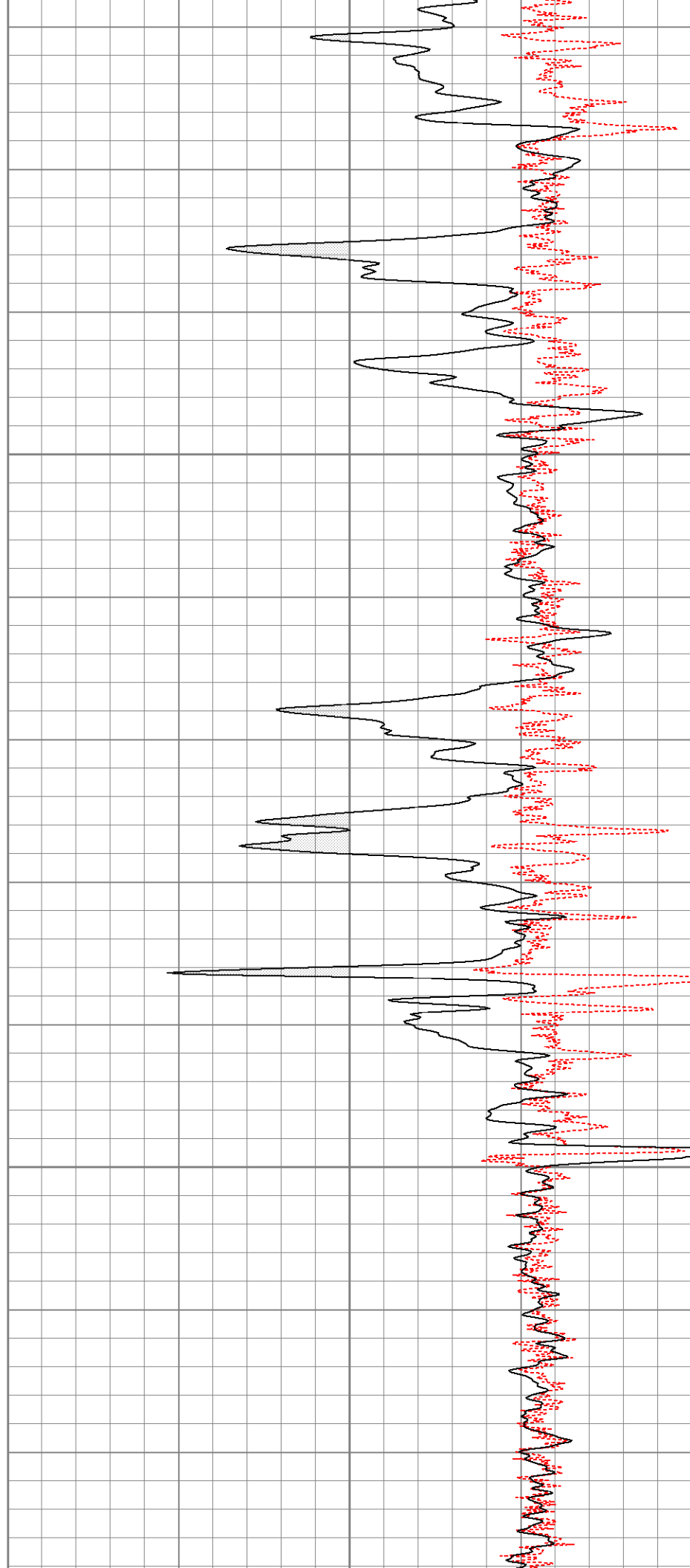
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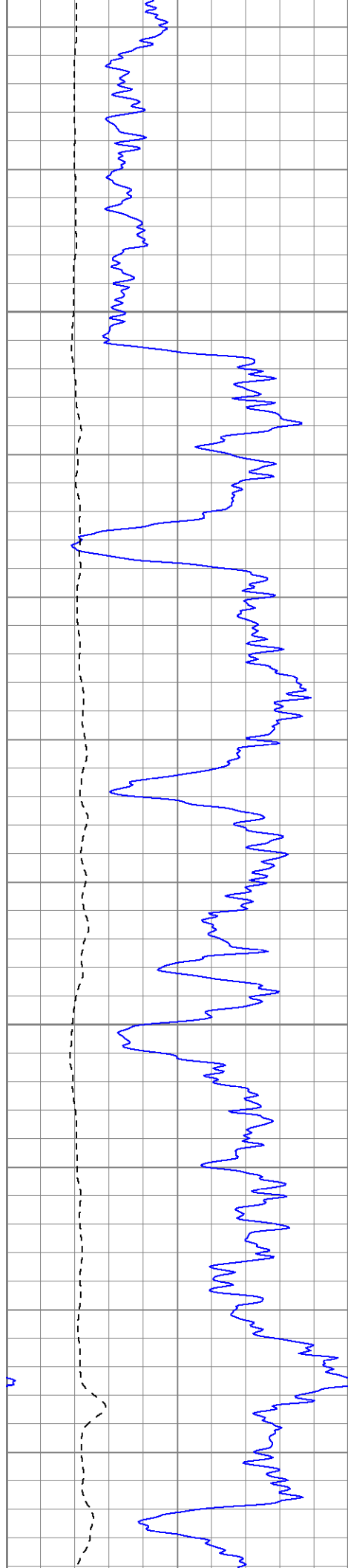




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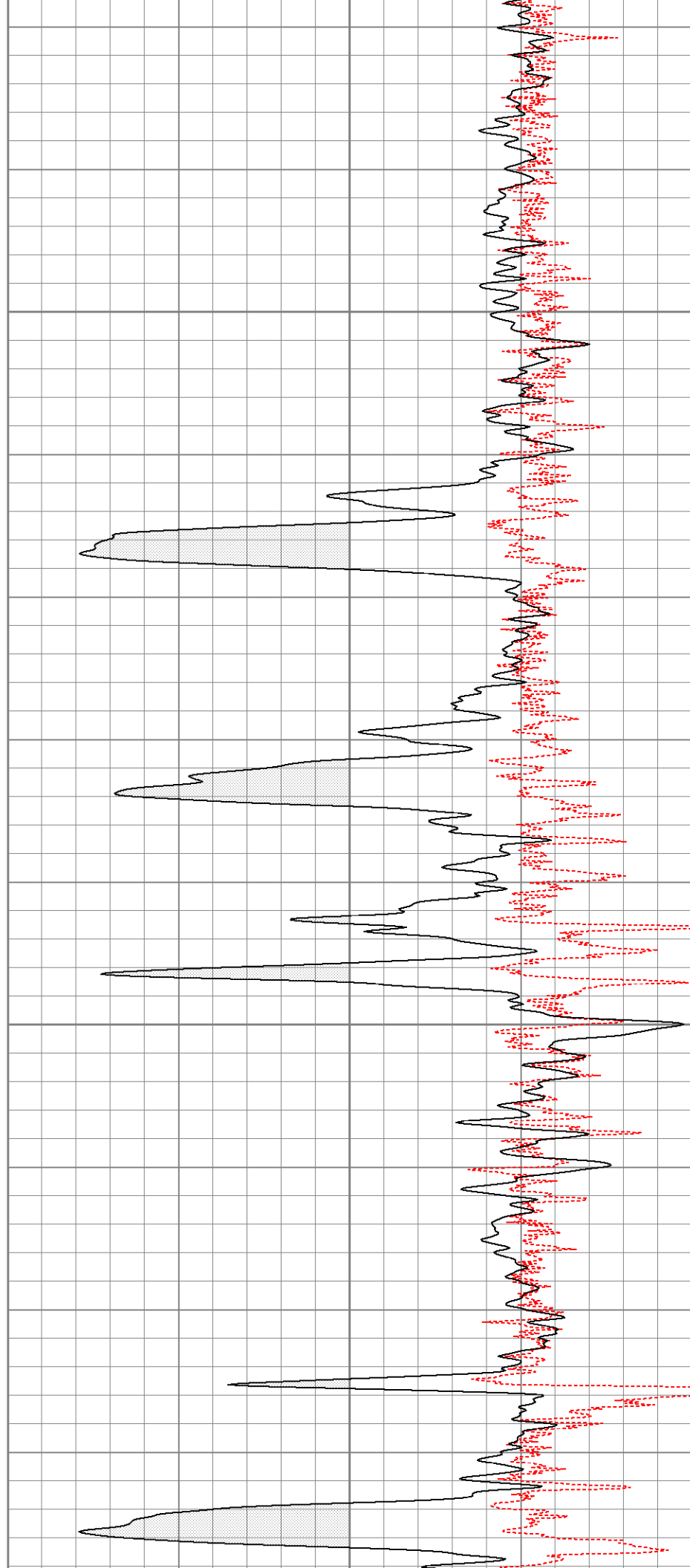
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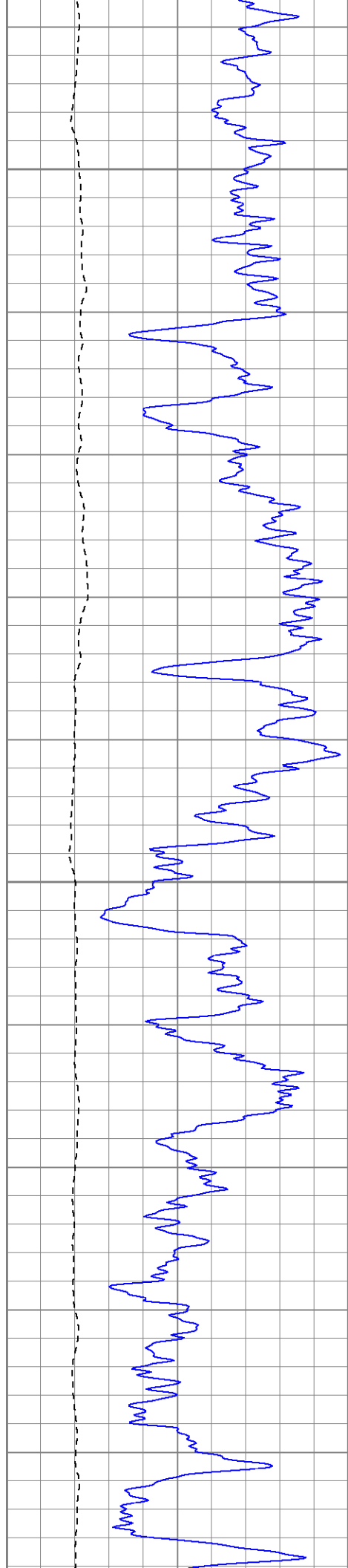




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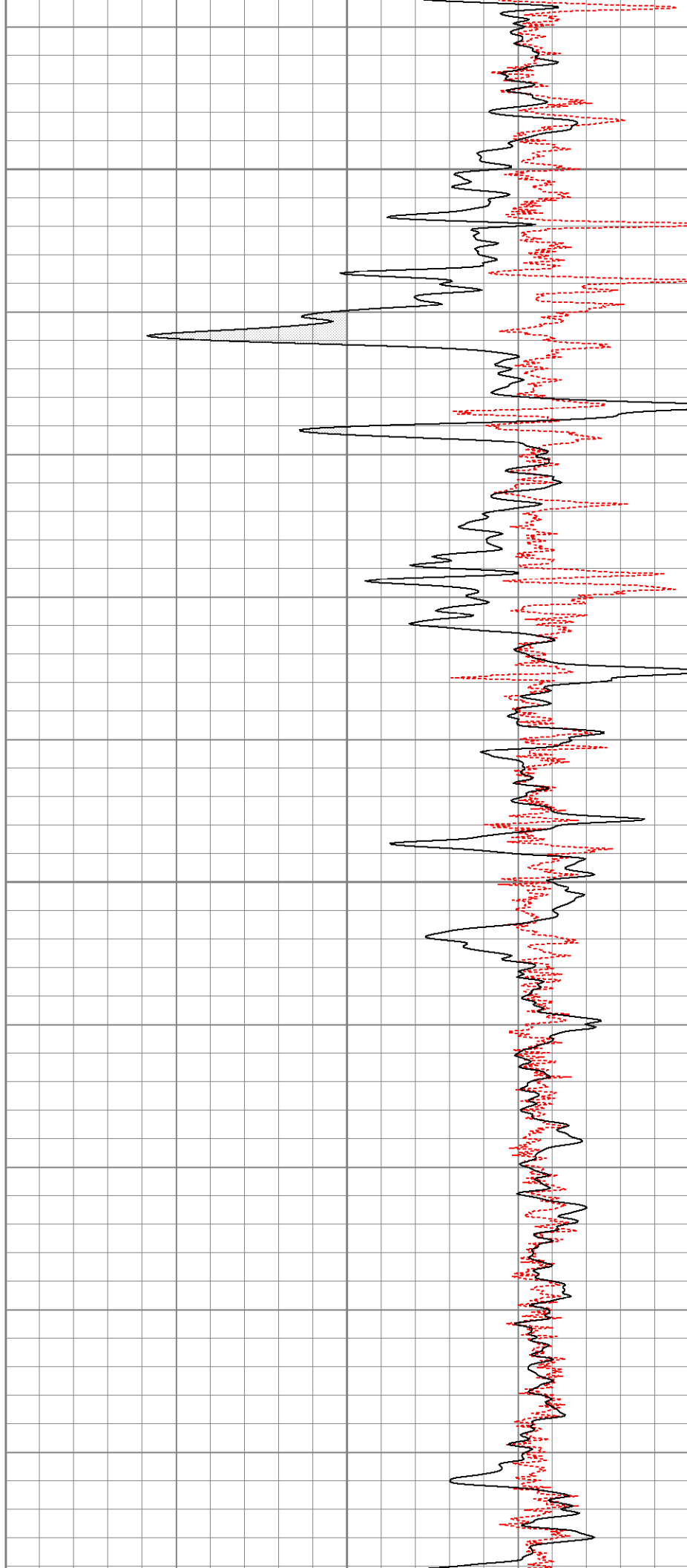
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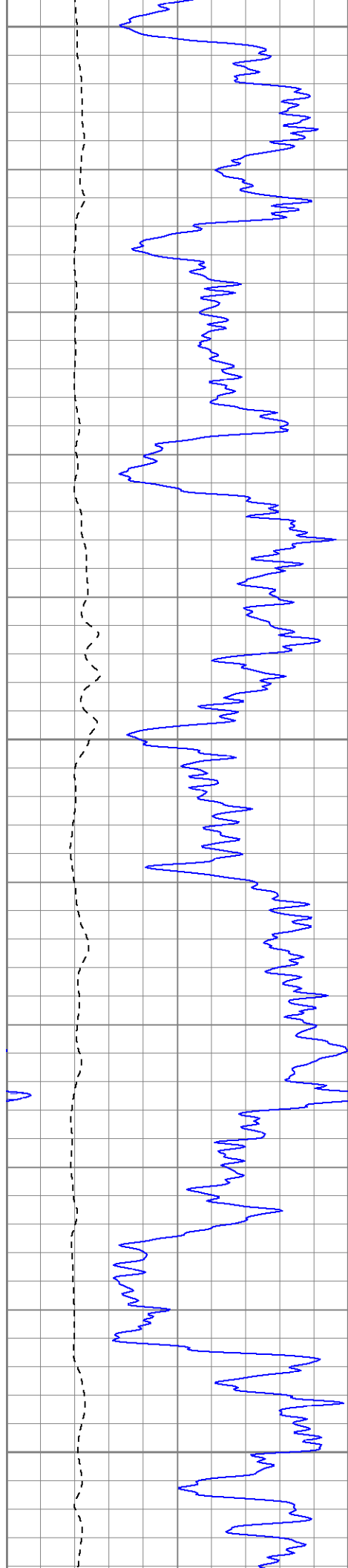




1000

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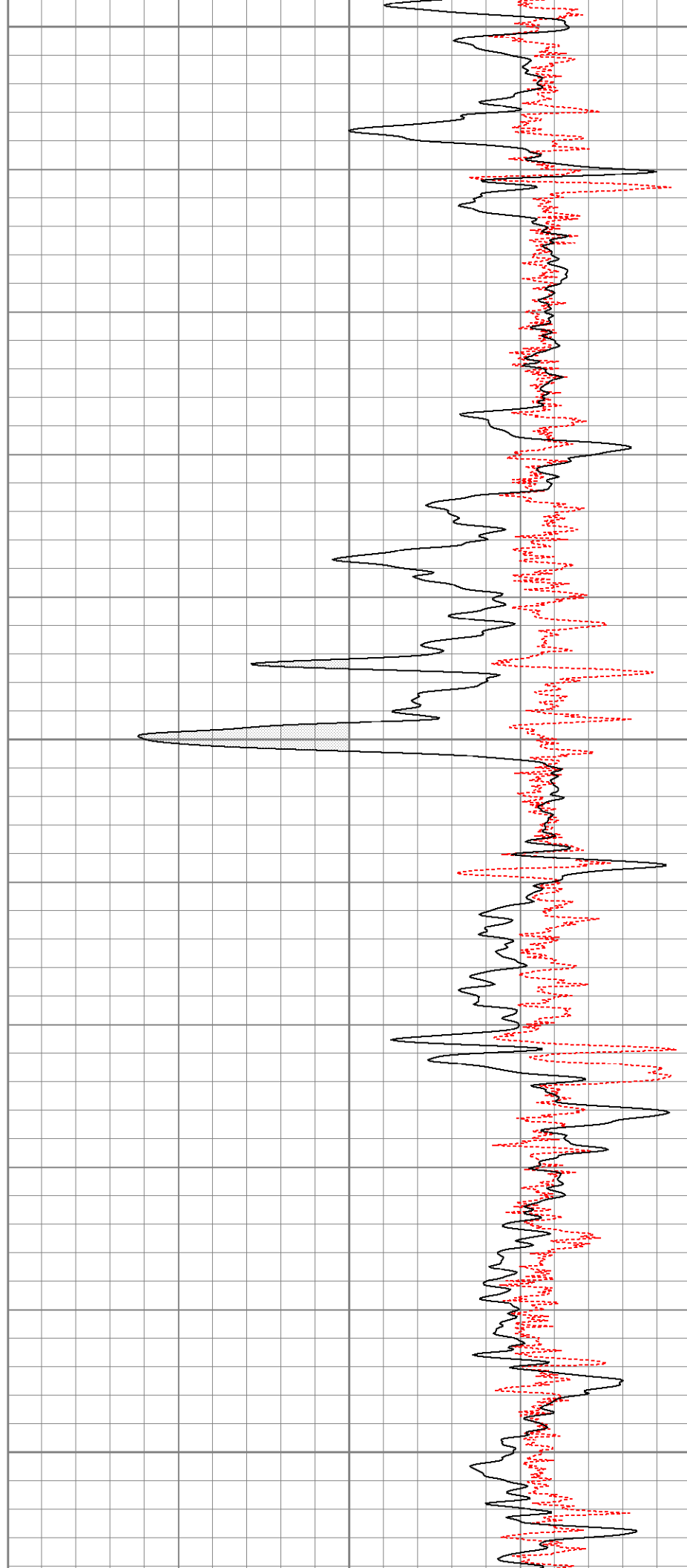


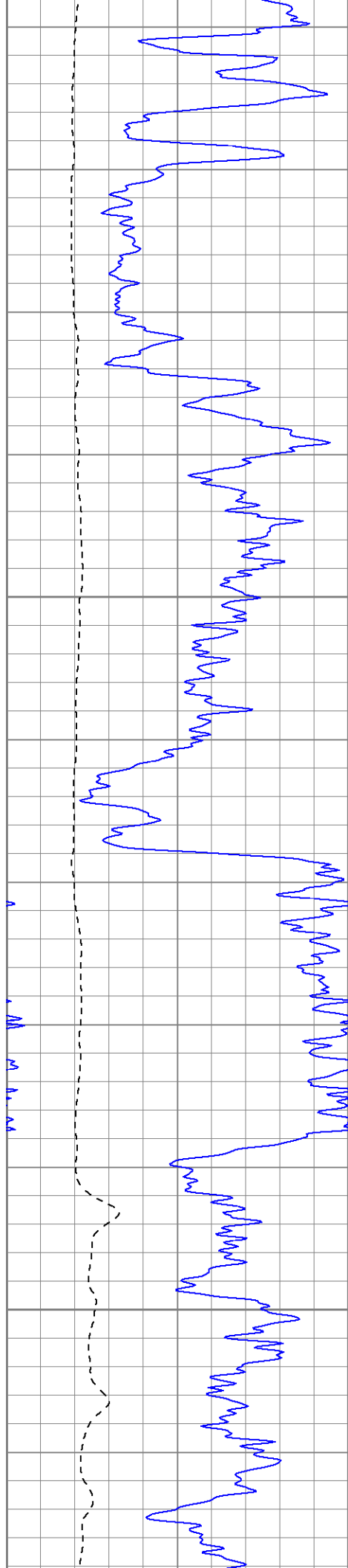


1100

1150

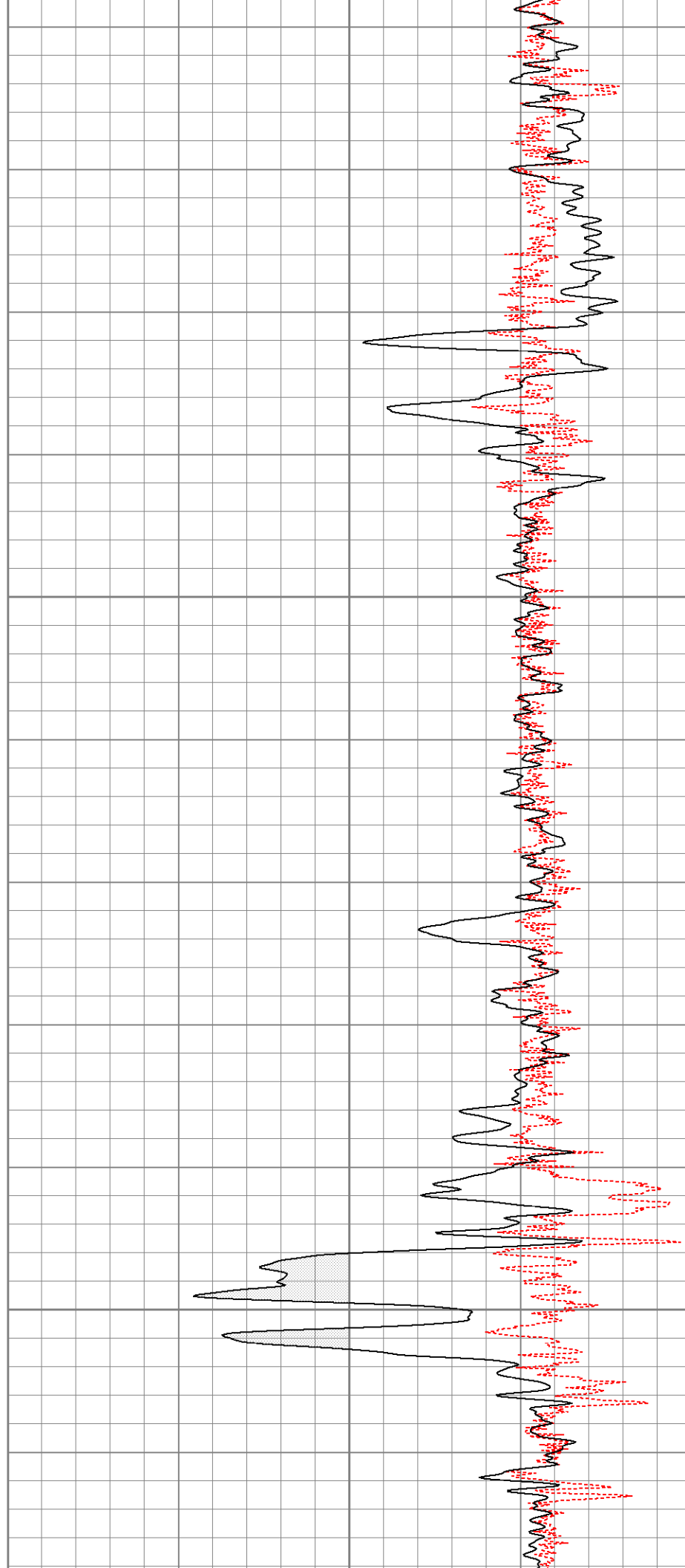
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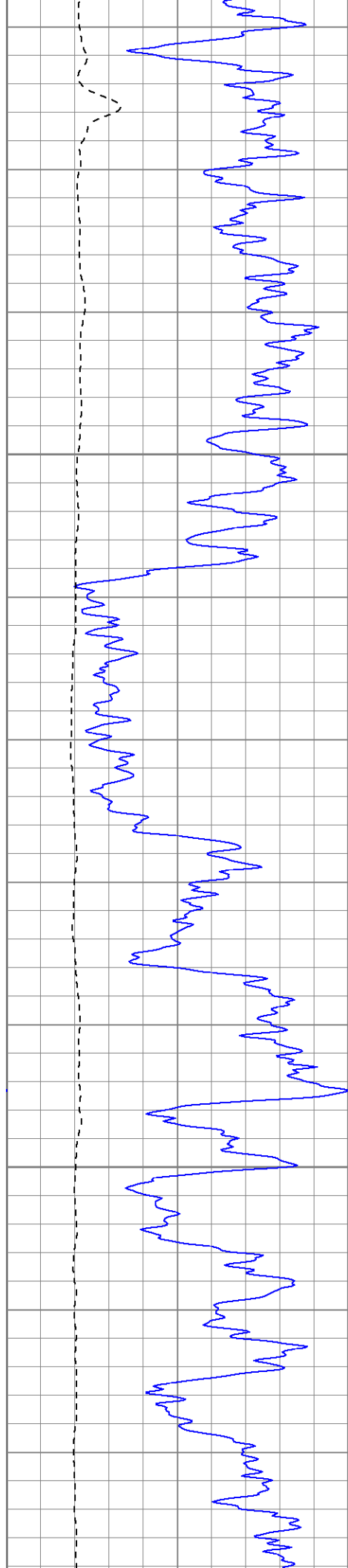




1250

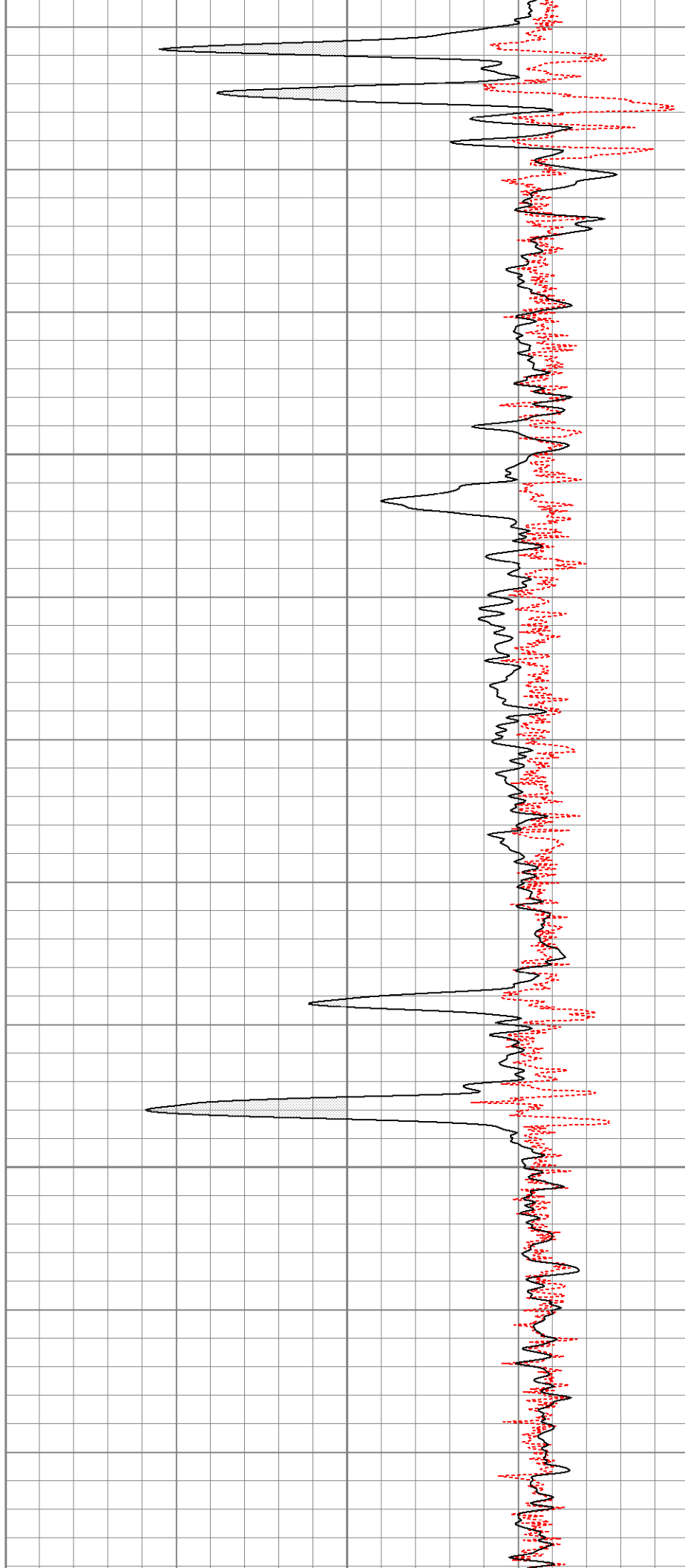
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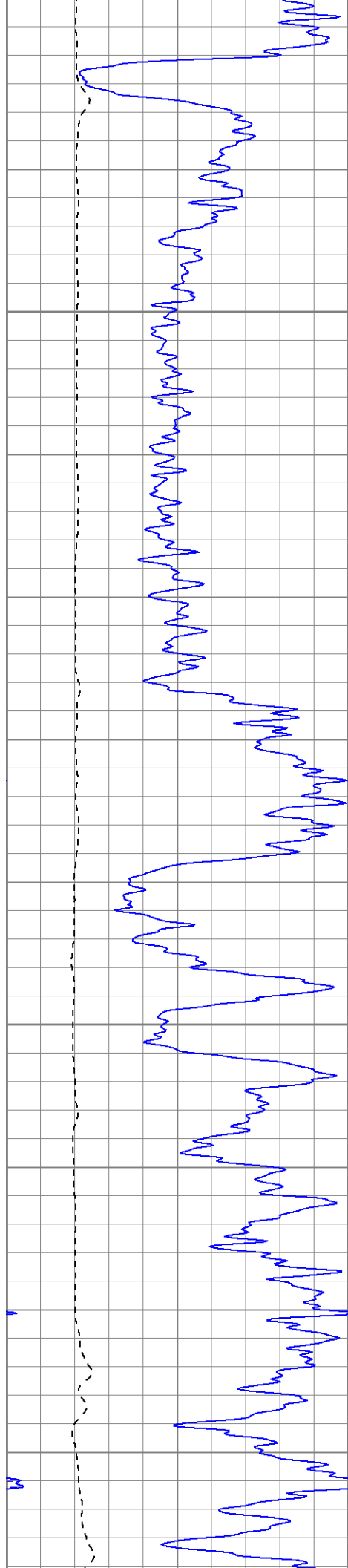




1350

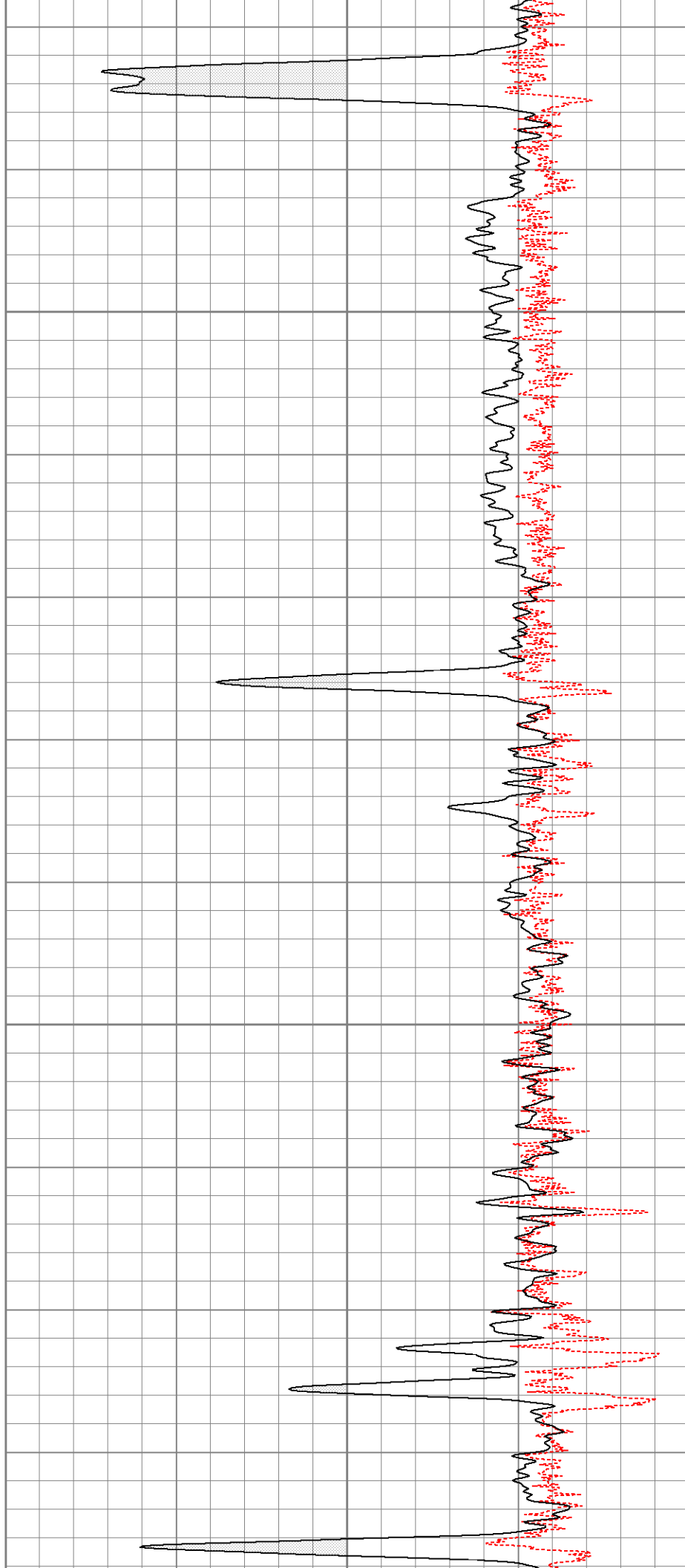
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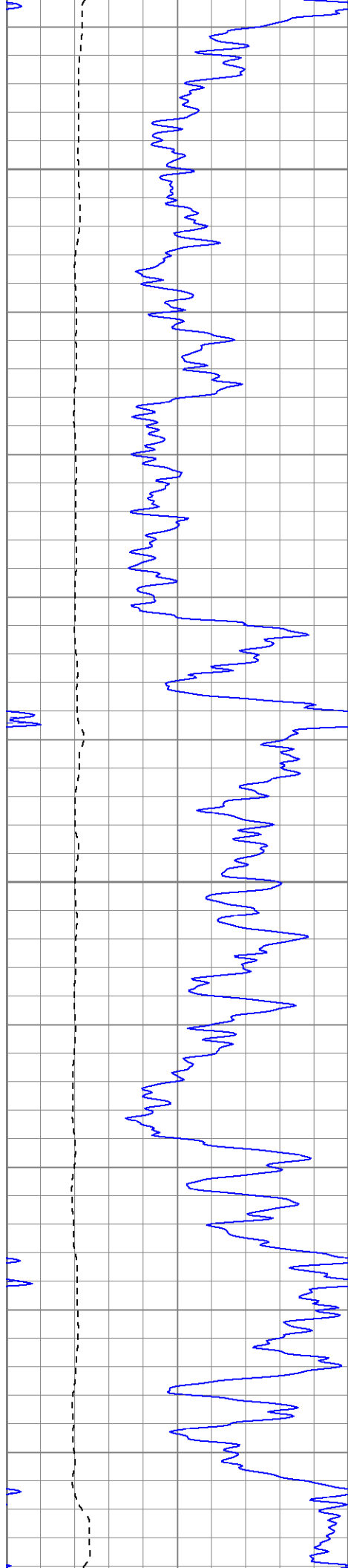




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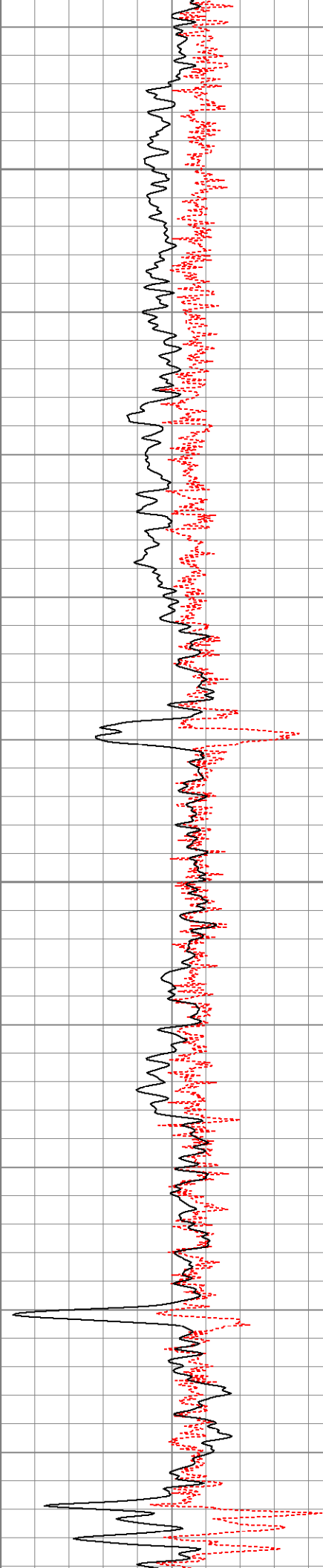
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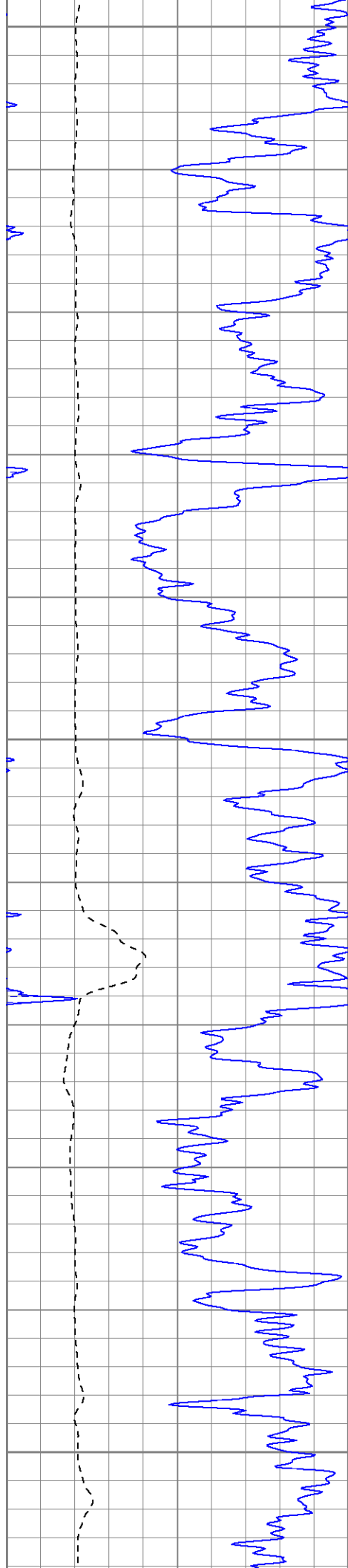




1550

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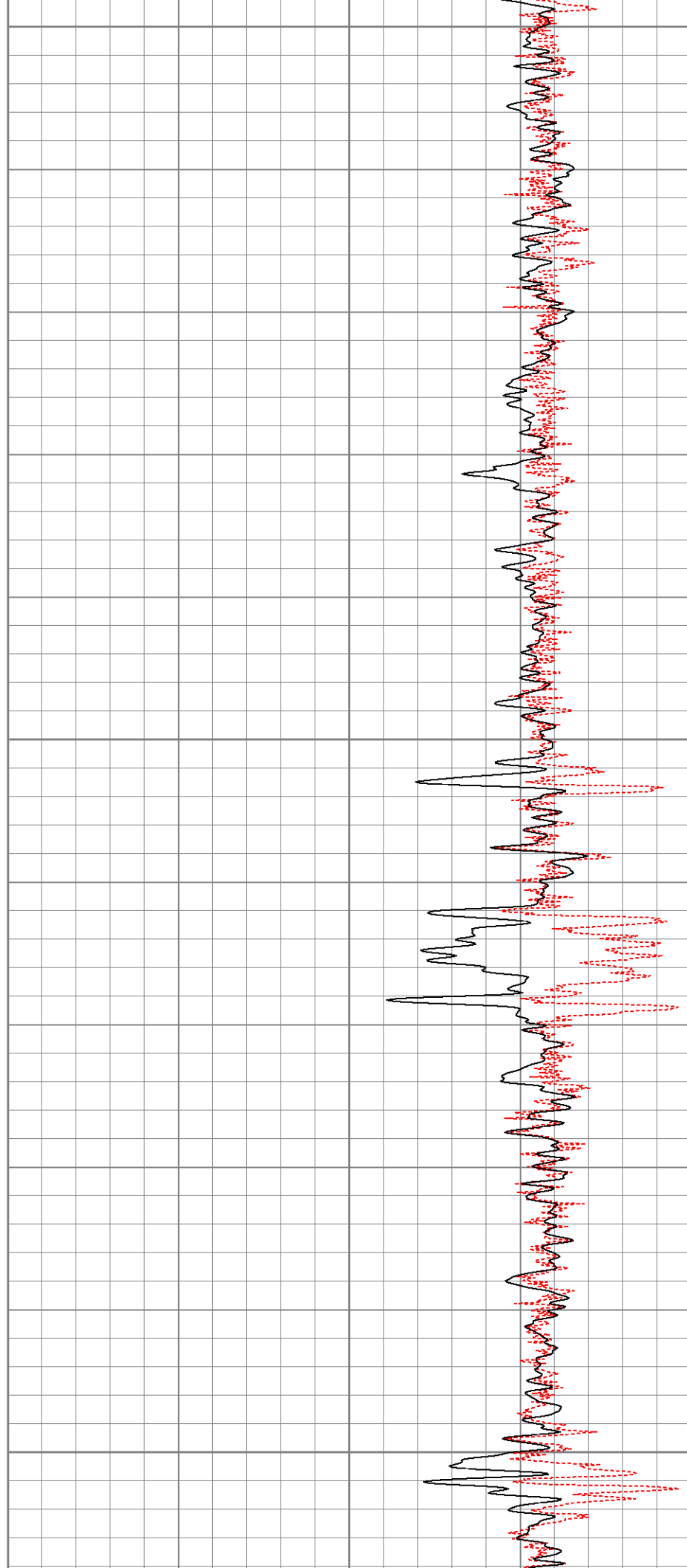


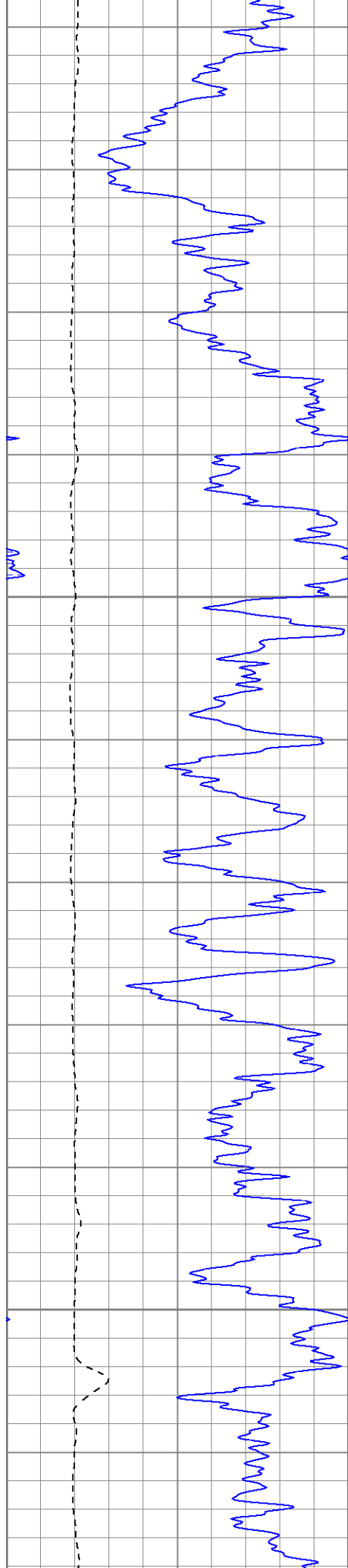


1650

1700

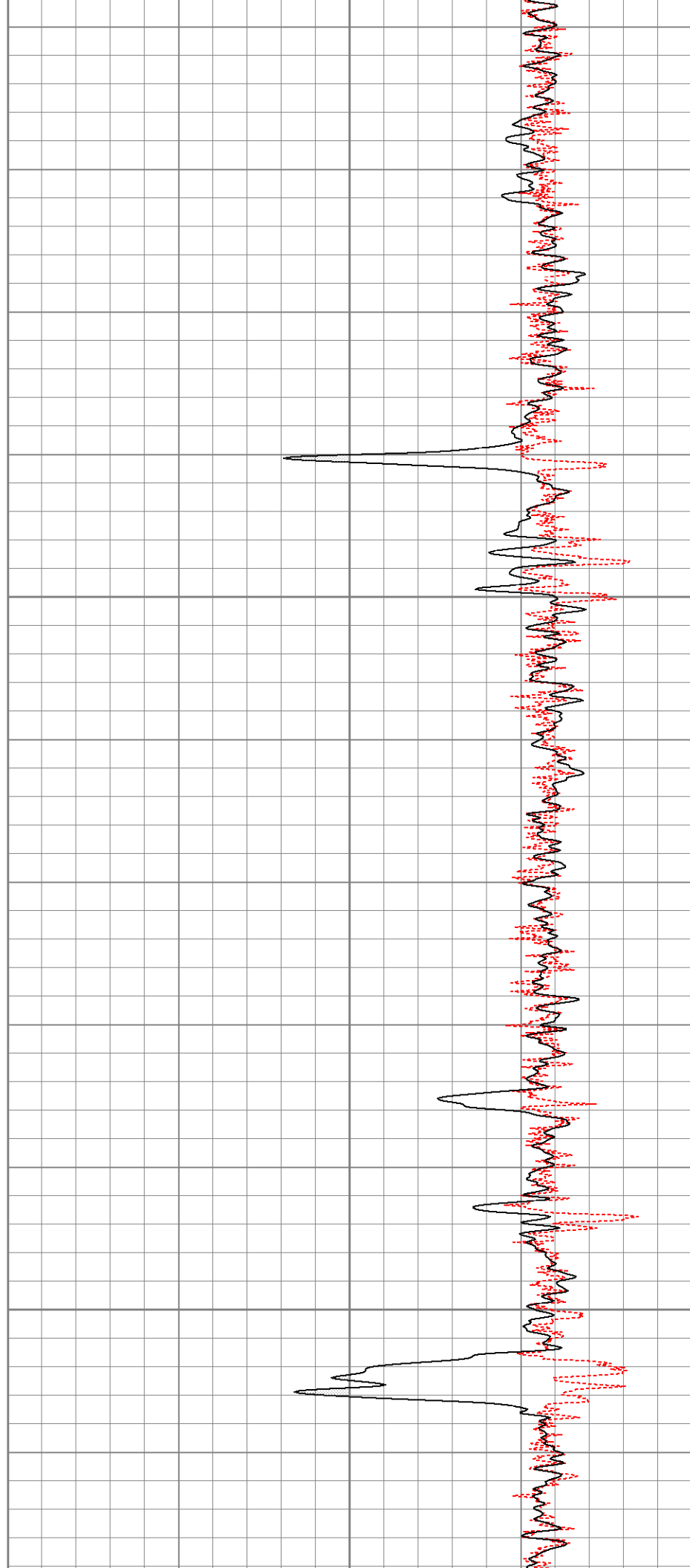
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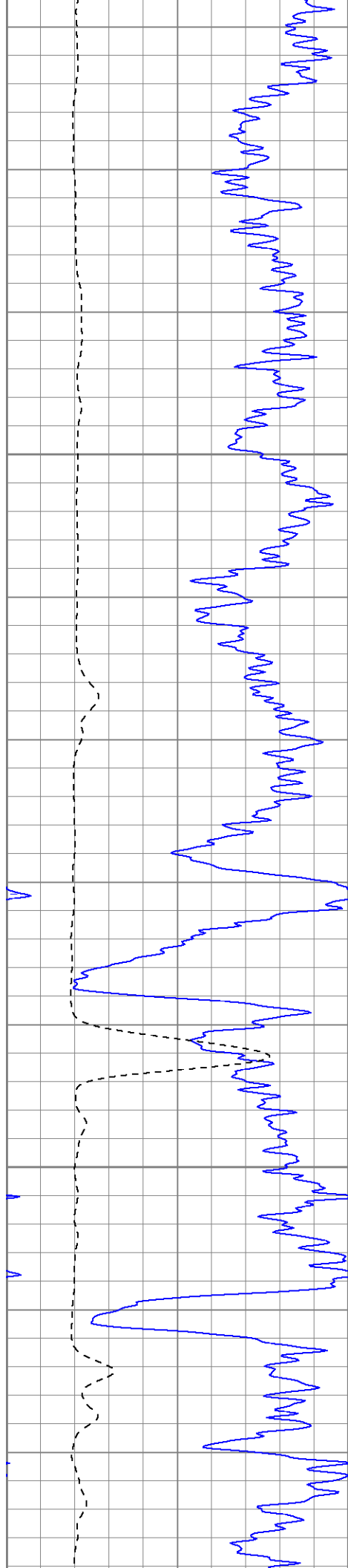




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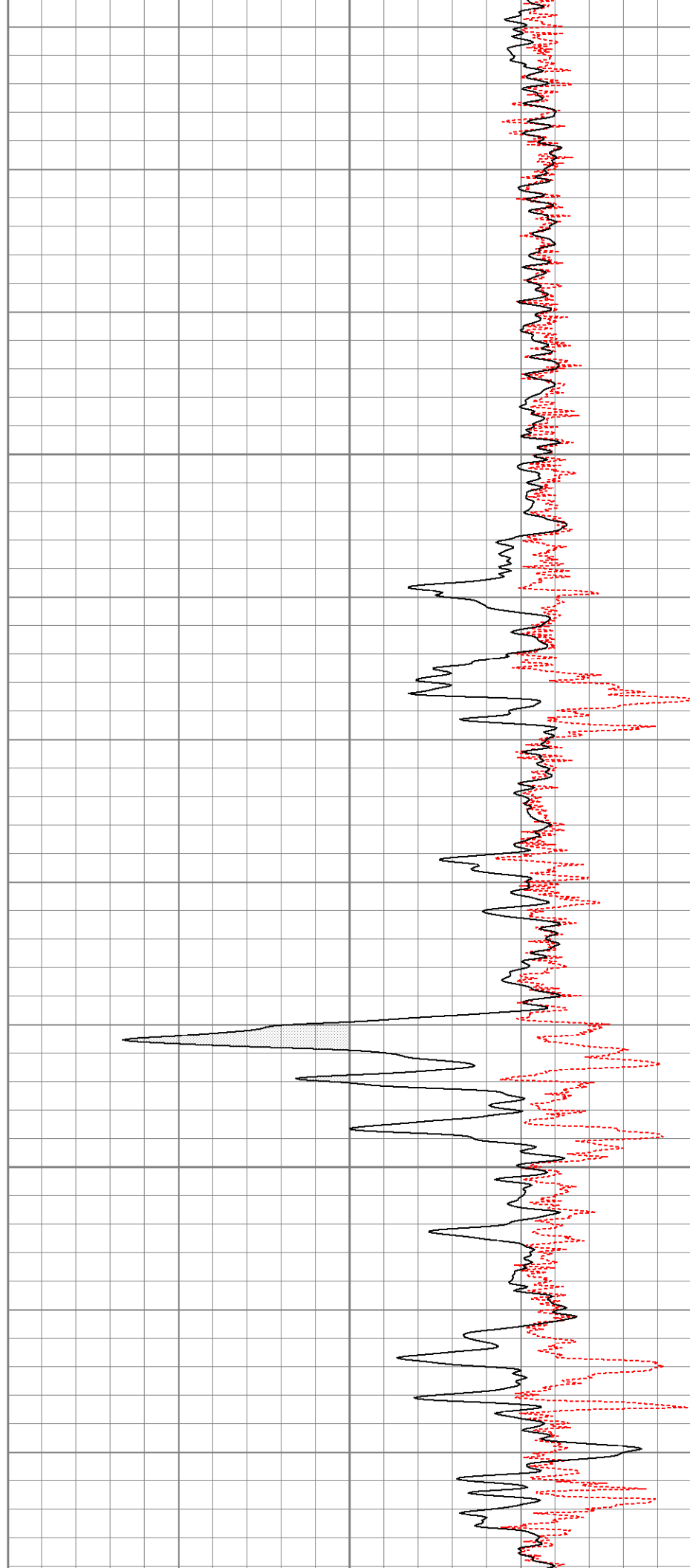
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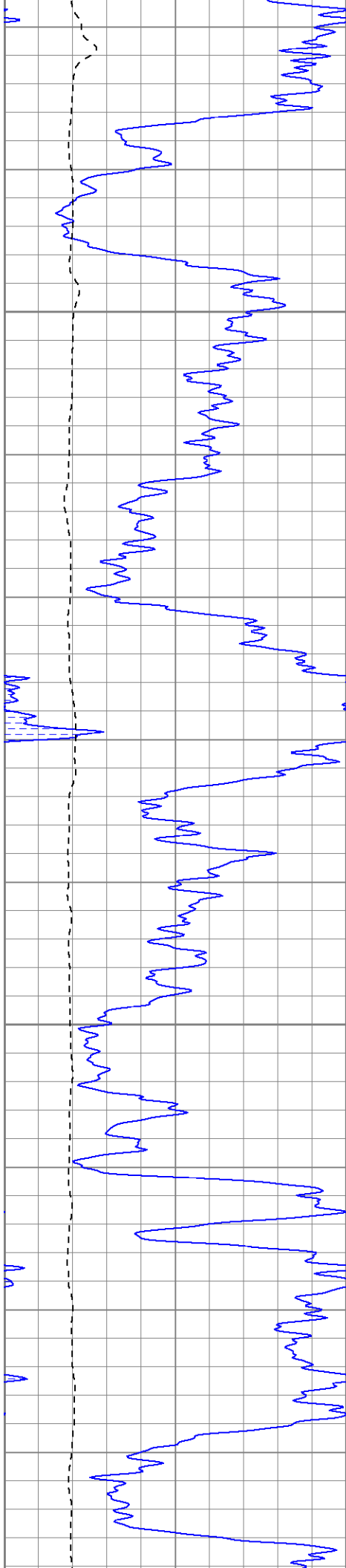




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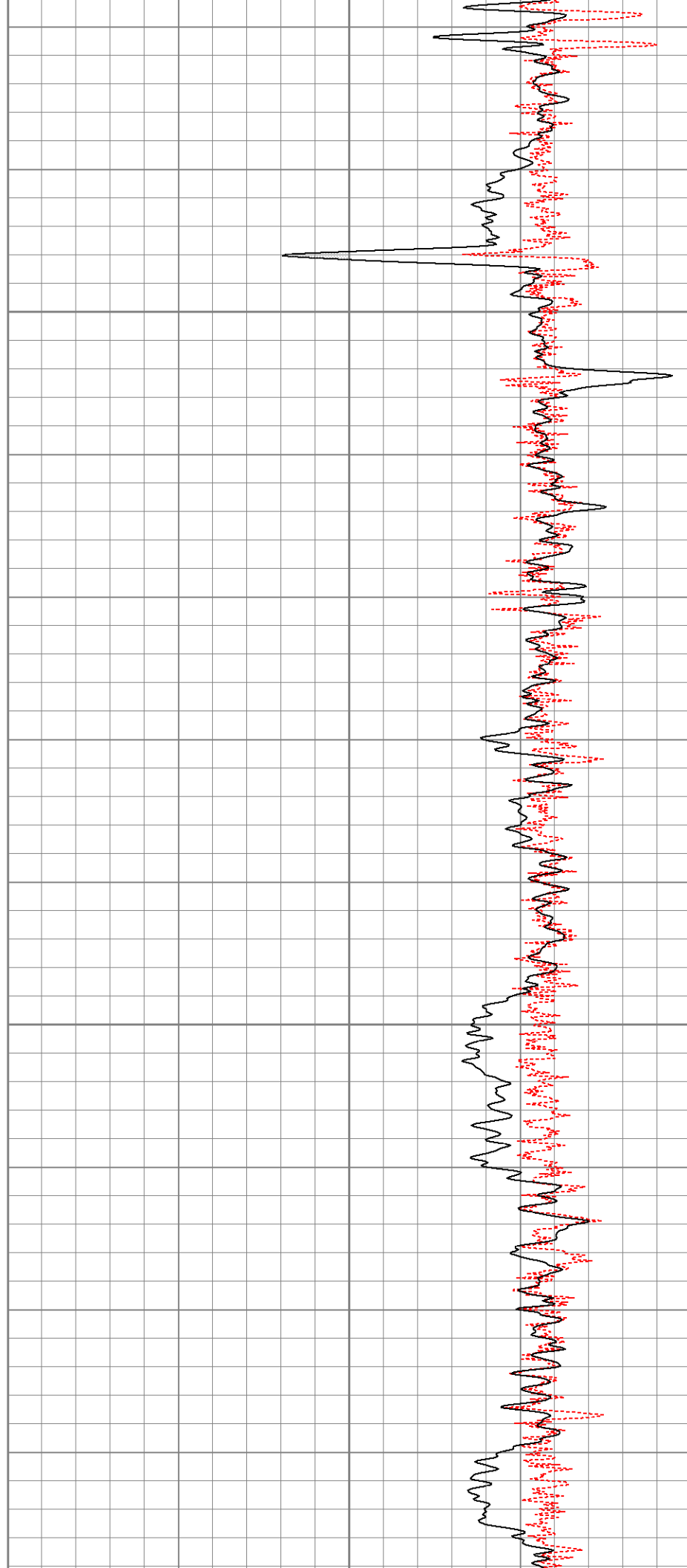
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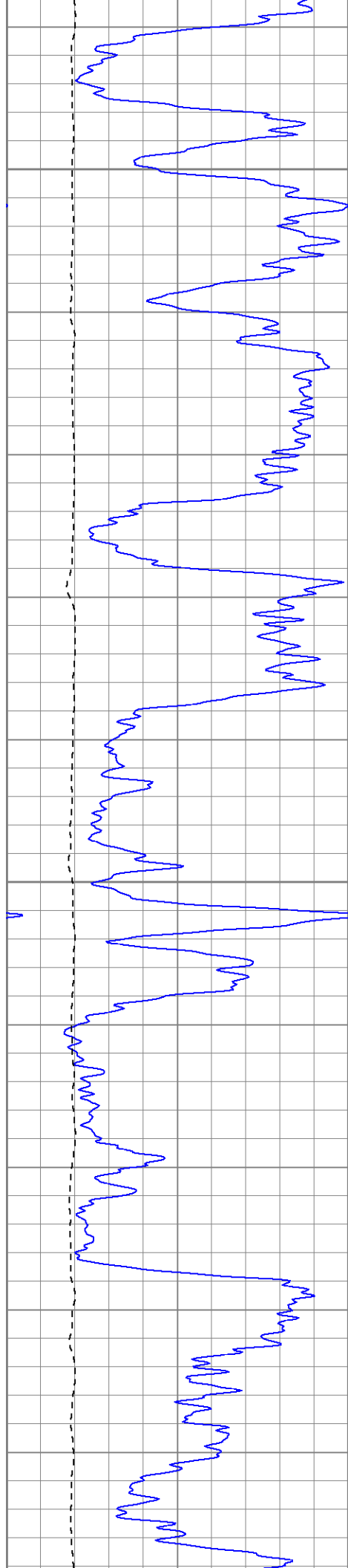




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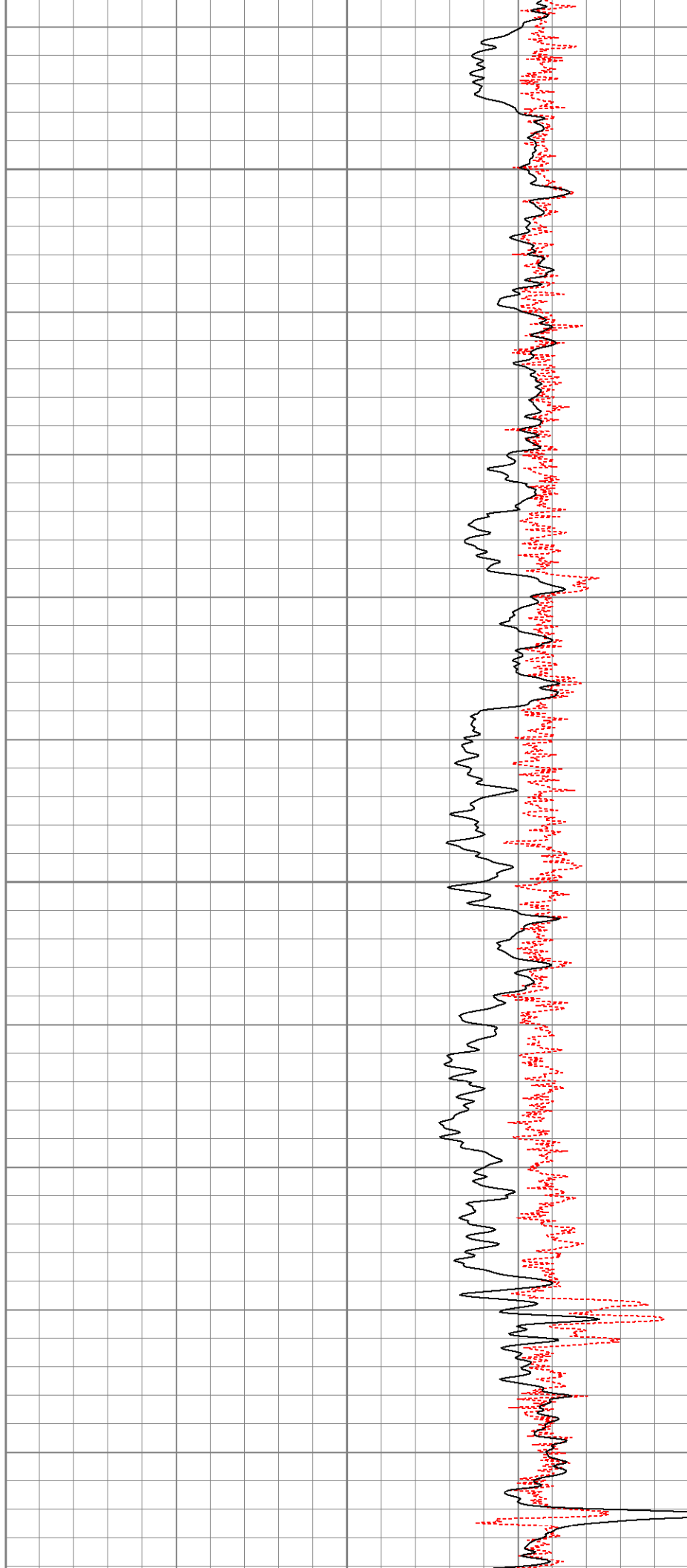
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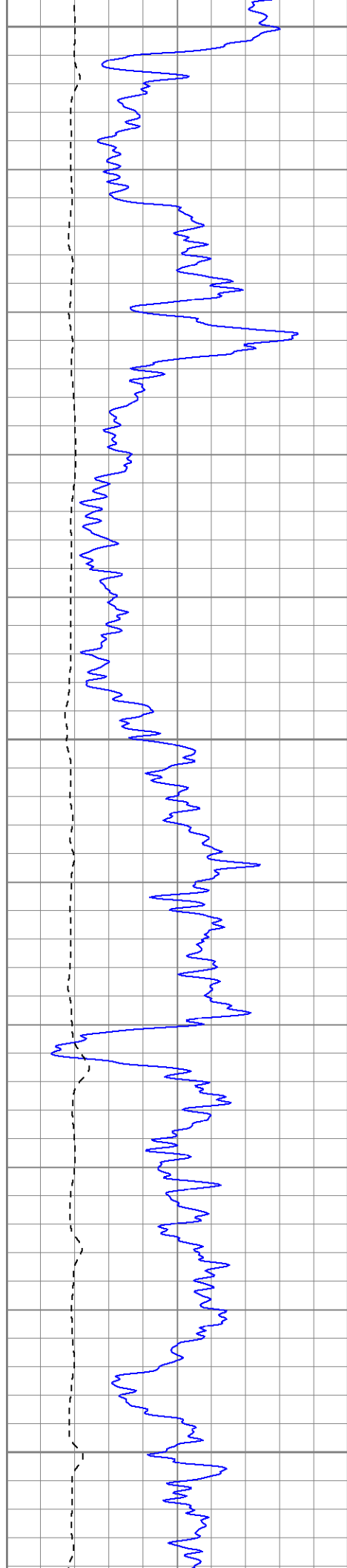




2100

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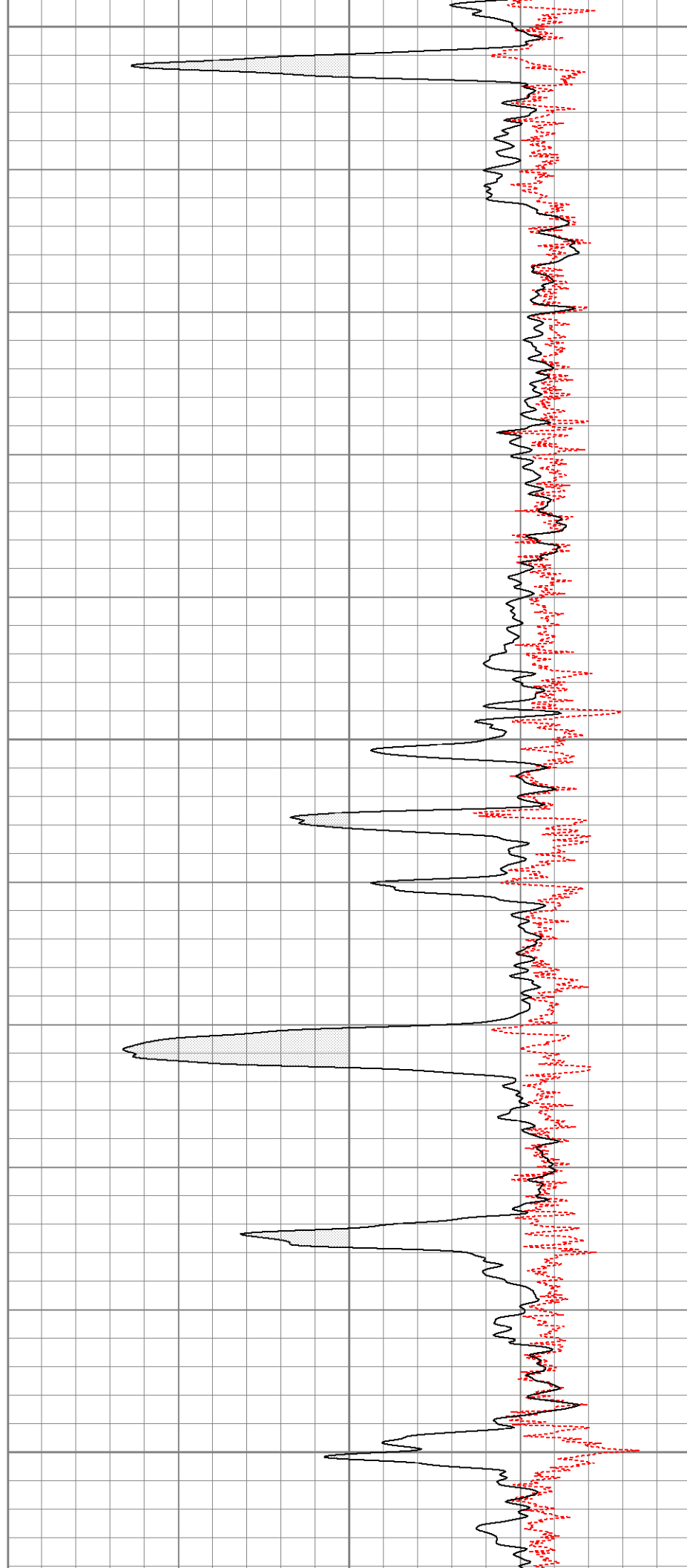


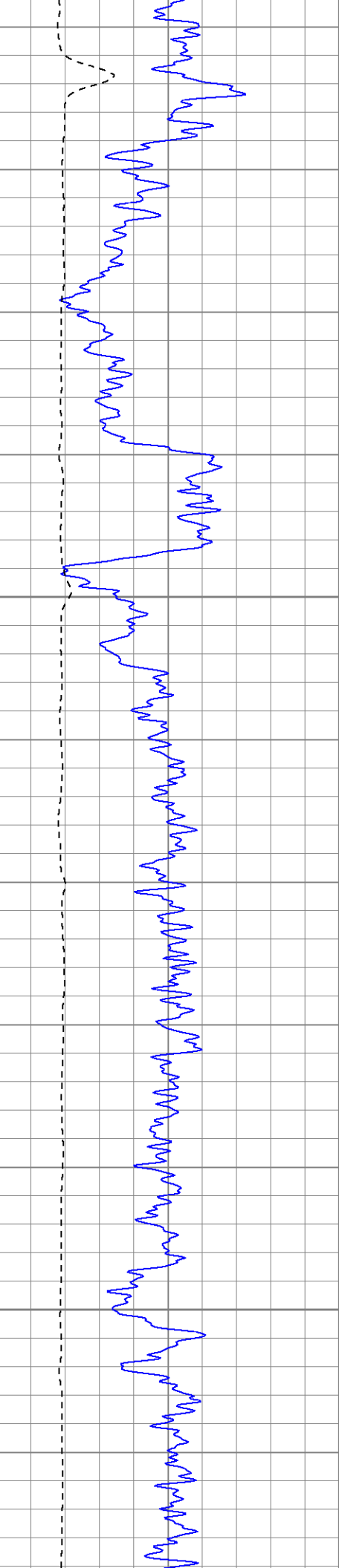


2200

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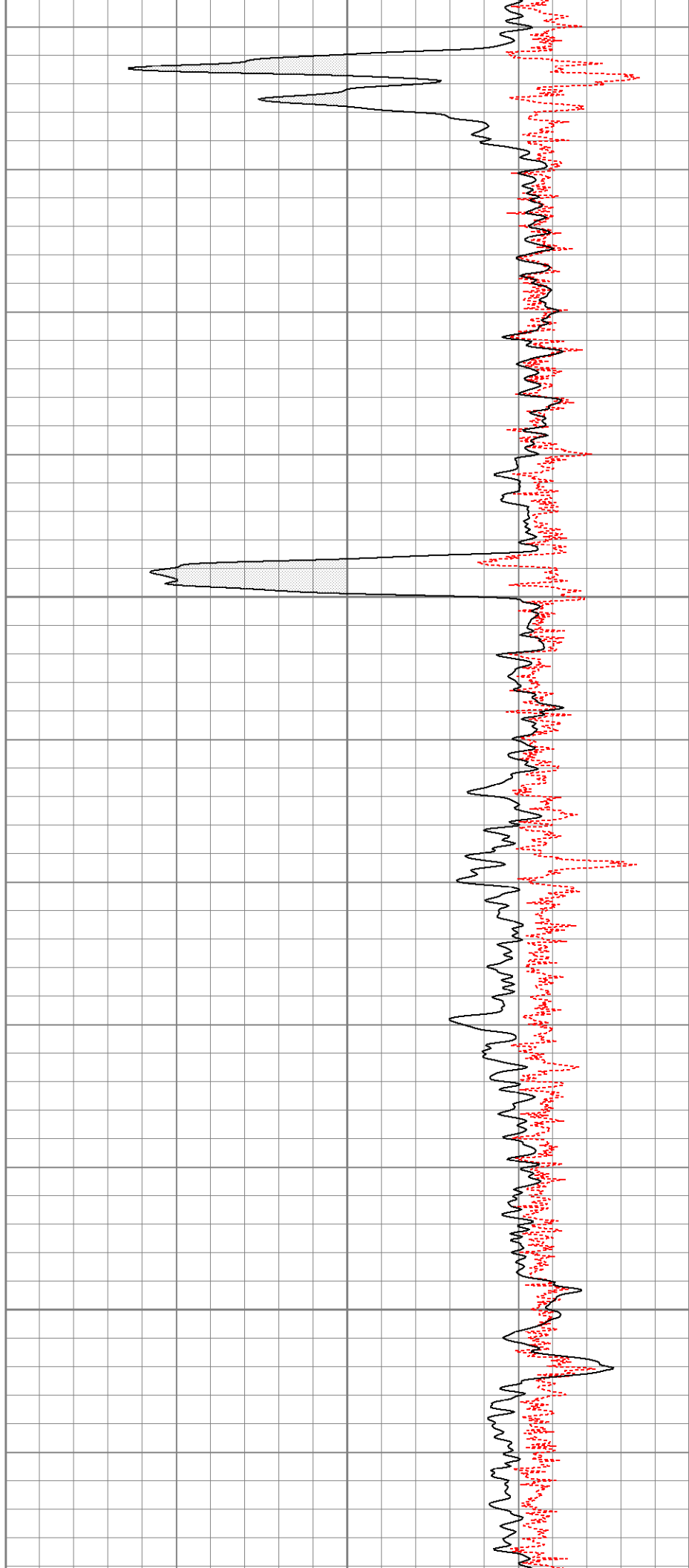
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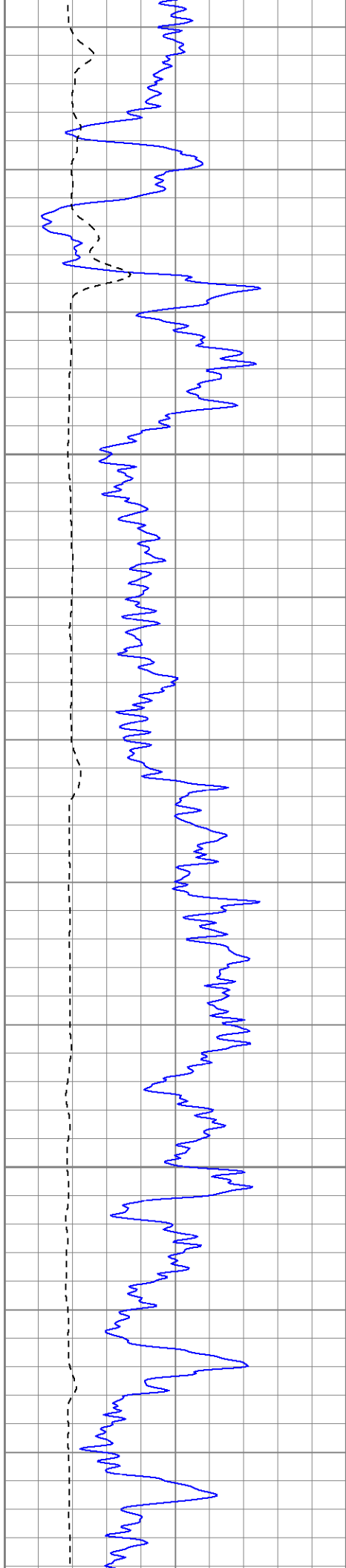




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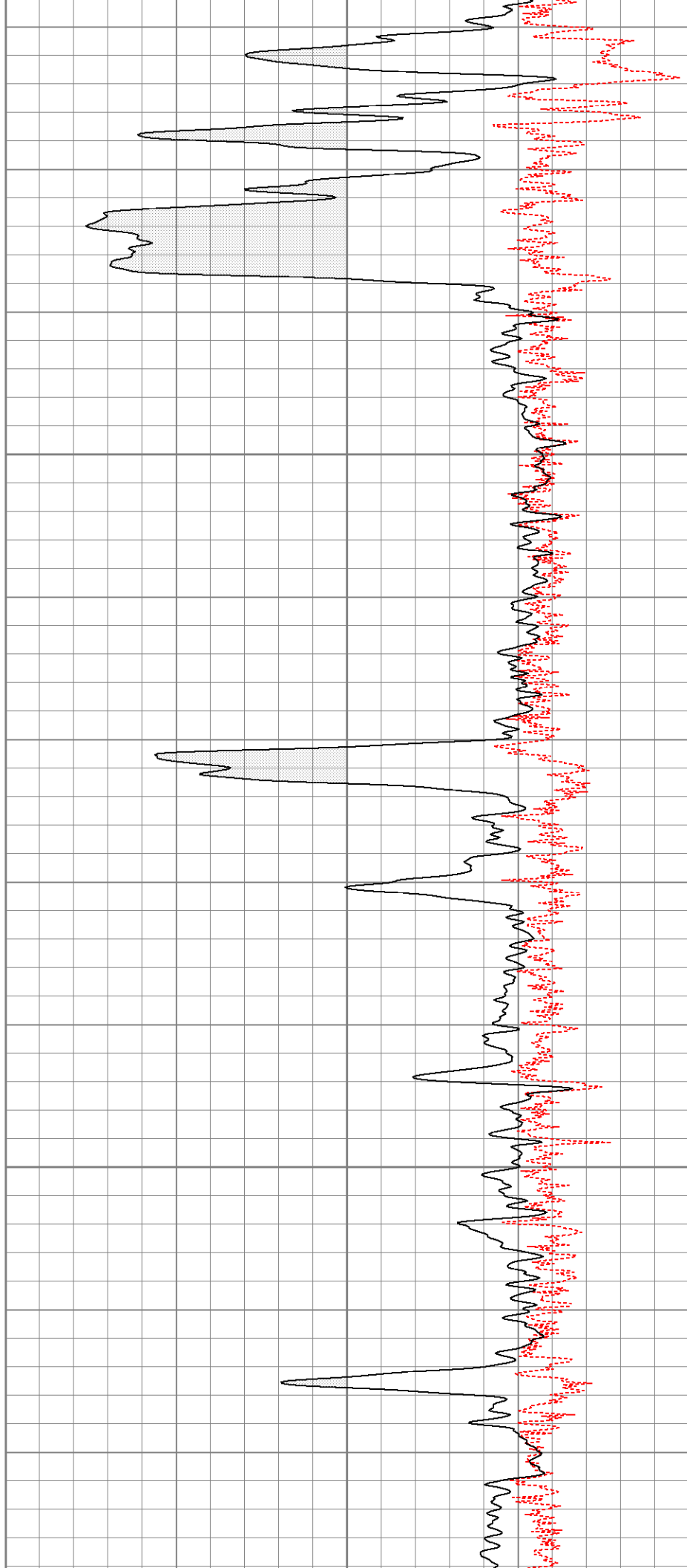
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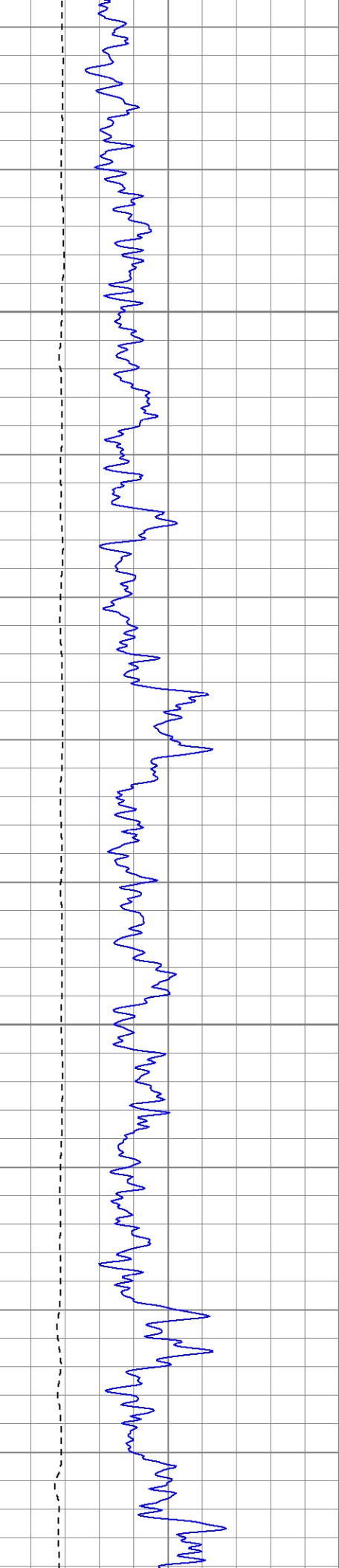




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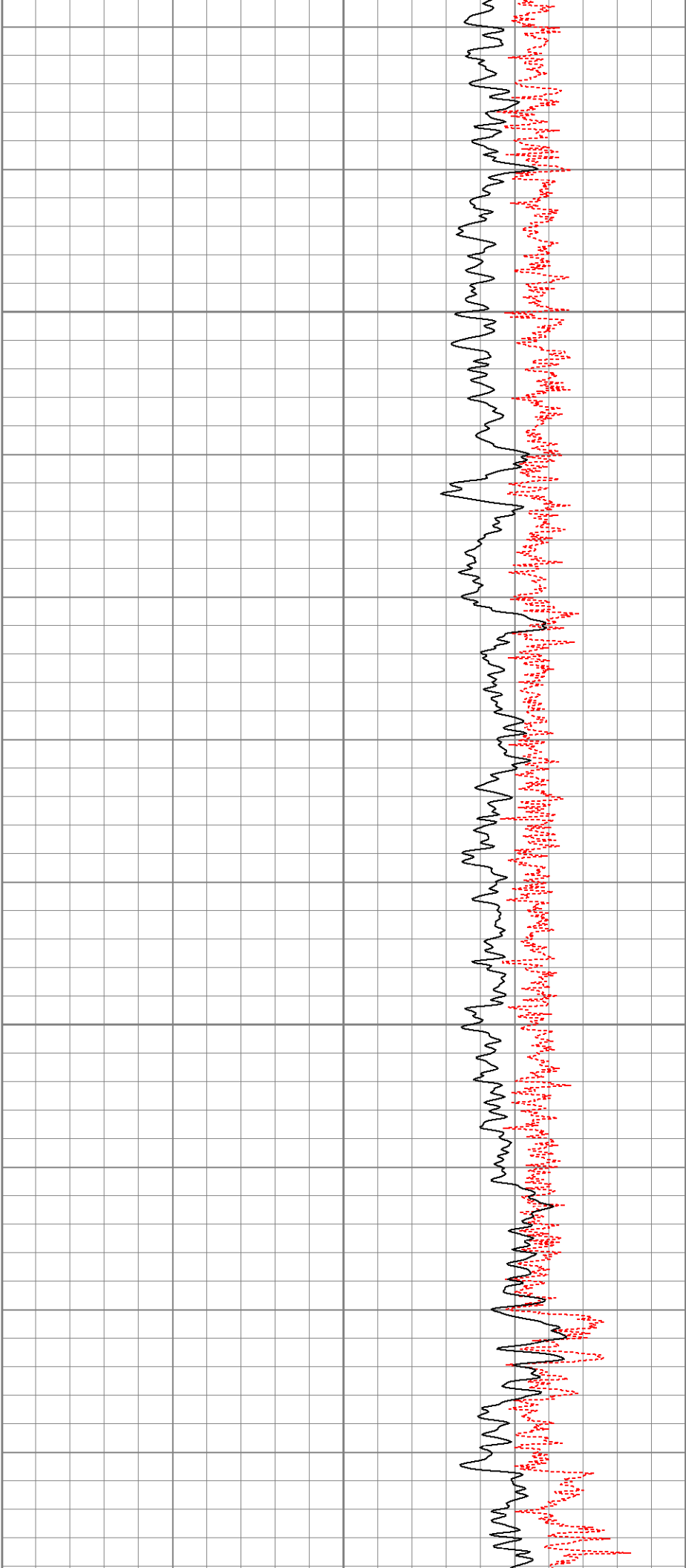
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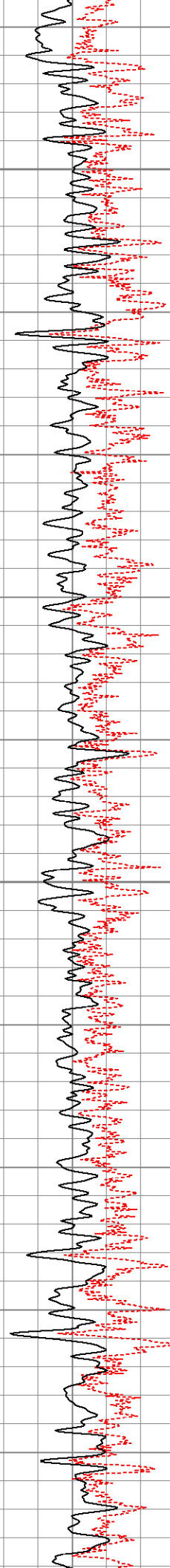
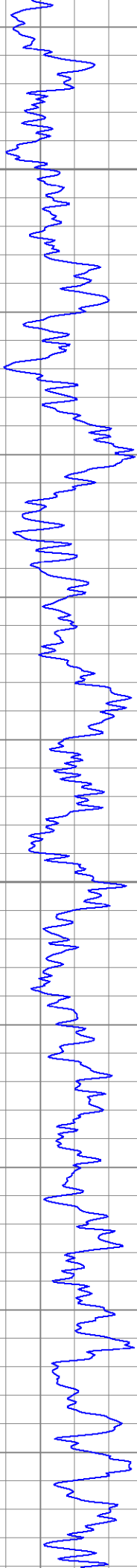
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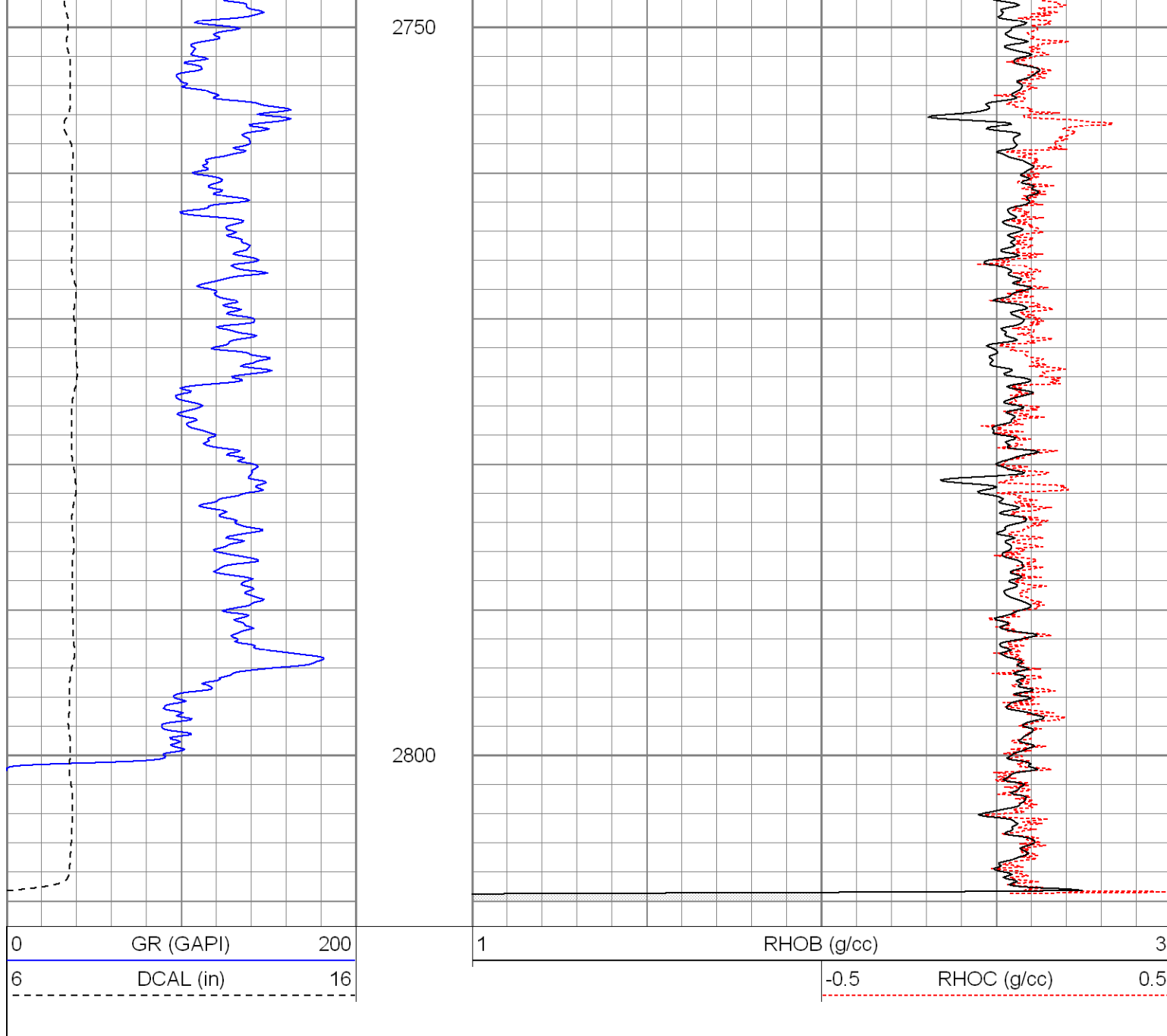
2600



2650

2700





Calibration Report				
Database File:	hillranch01-08.db			
Dataset Pathname:	pass4			
Dataset Creation:	Fri Feb 05 04:31:32 2010 by Log Open-Cased 071220			
Compensated Density Calibration Report				
Serial-Model:	2501DHT-DHT			
Source / Verifier:	/			
Master Calibration Performed:	Mon Jan 25 10:13:39 2010			
Master Calibration				
	Density		Far Detector	Near Detector
Magnesium	1.710	g/cc	767.26	303.43 cps
Aluminum	2.590	g/cc	171.91	210.81 cps
Spine Angle = 76.32			Density/Spine Ratio = 0.572	
	Size		Reading	


Small Ring	8.00	in	6196.63
Large Ring	14.00	in	10494.70

Gamma Ray Calibration Report

Serial Number:	2000	
Tool Model:	P2000	
Performed:	Fri Feb 05 03:18:39 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2700	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Mon Jan 25 10:14:18 2010	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	16.49		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe Epithermal	4.92	3.63	85.00
GR	11.10		GR-P2000 (2000)	3.67	3.25	40.00
LSD	2.31					
DCAL	2.02					
SSD	1.77		CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
HEADVOLT	0.00					

Dataset:	hillranch01-08.db: field/well/run1/pass4
Total Length:	19.02 ft
Total Weight:	331.00 lb
O.D.	4.00 in