



COMPENSATED DENSITY LOG

Company	Pioneer Natural Resources	Company	Pioneer Natural Resources
Well	Redbud 44-7	Well	Redbud 44-7
Field	Purgatorie River	Field	Purgatorie River
County	Las Animas	County	Las Animas
State	CO	State	CO
Location:	API # : 071-09697-00	Other Services	SIL
Permanent Datum	SEC 7 TWP 32S RGE 66W	Elevation	
Log Measured From	Ground Level	K.B. 8071'	
Drilling Measured From	Kelly Bushing 9' A.G.L.	D.F. -----	
	Kelly Bushing	G.L. 8062'	
Date	12/2/09		
Run Number	one		
Depth Driller	3240'		
Depth Logger	3220'		
Bottom Logged Interval	3218'		
Top Log Interval	688'		
Casing Driller	695'		
Casing Logger	698'		
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	1:00 a.m.		
Time Logger on Bottom	7:30 a.m.		
Maximum Recorded Temperature	124F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	Worley		
Witnessed By	D. Berry		

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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

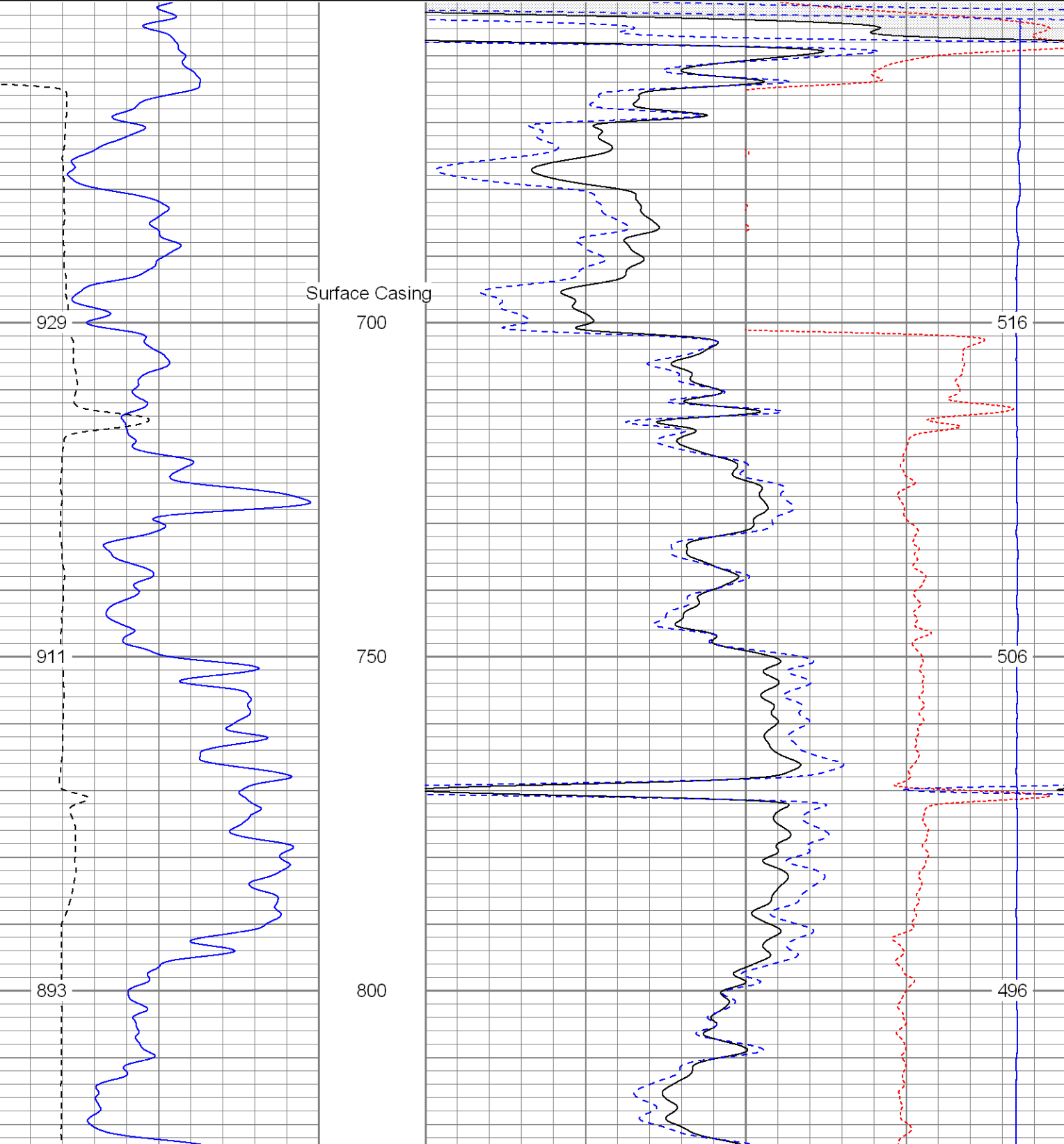
Gulnare to Jarosa Gravel Pit, up Healy Hill, stay on main road to 4-Way, go right, next right, go up hill stay on main road drive thru the Look Out Point, at Y stay left, and next Y stay right, drive thru the Vespar, at Y go left to location.

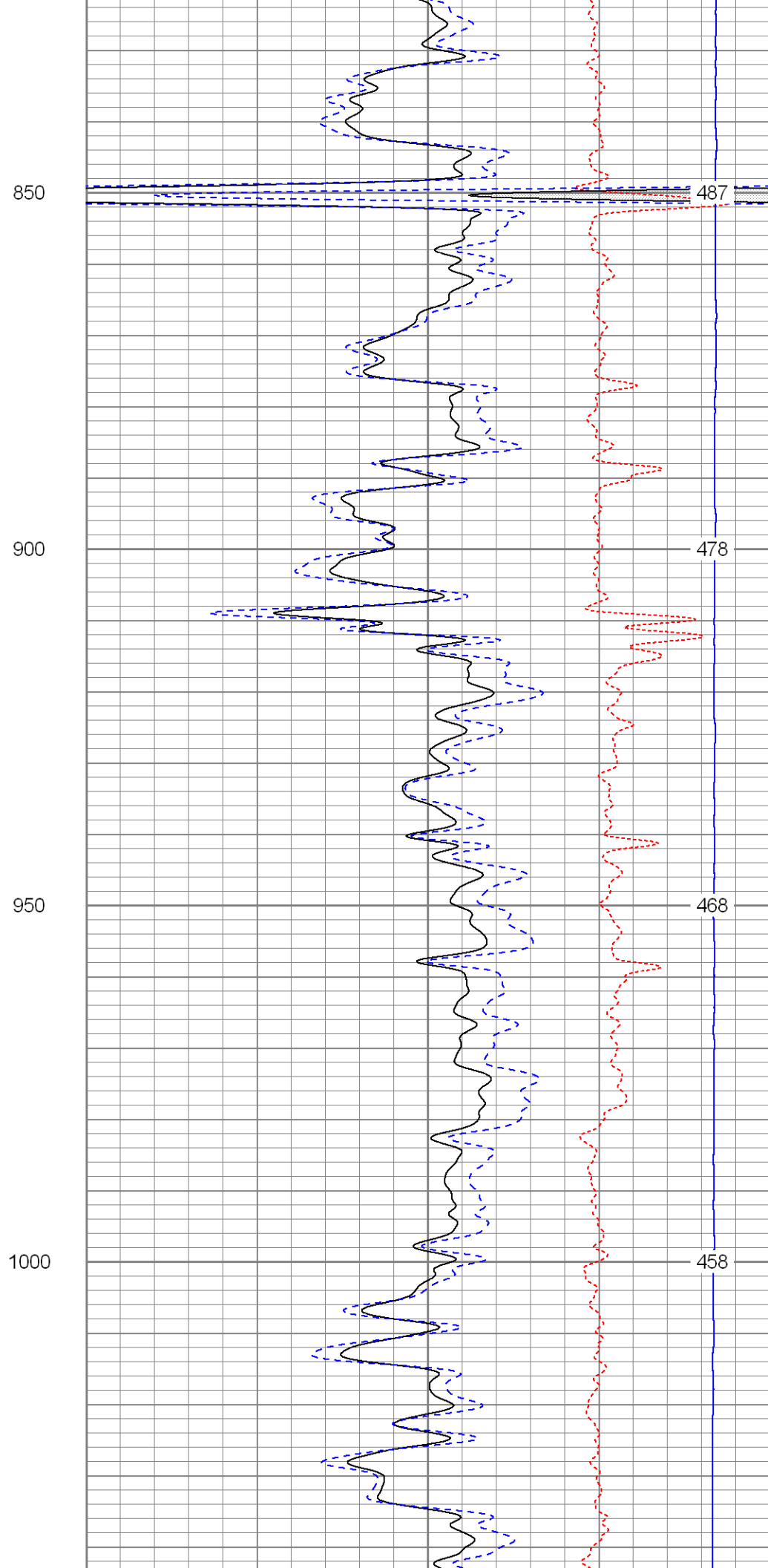
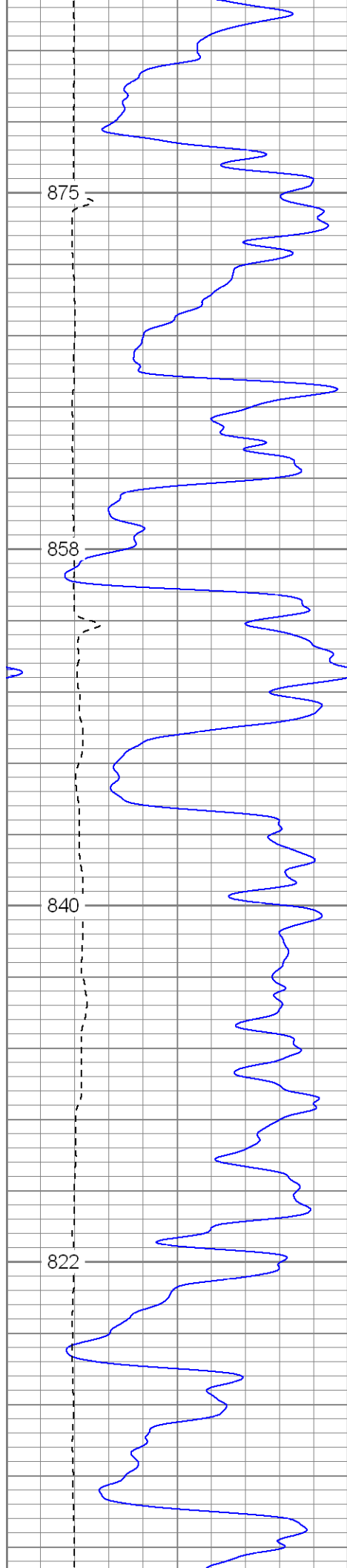


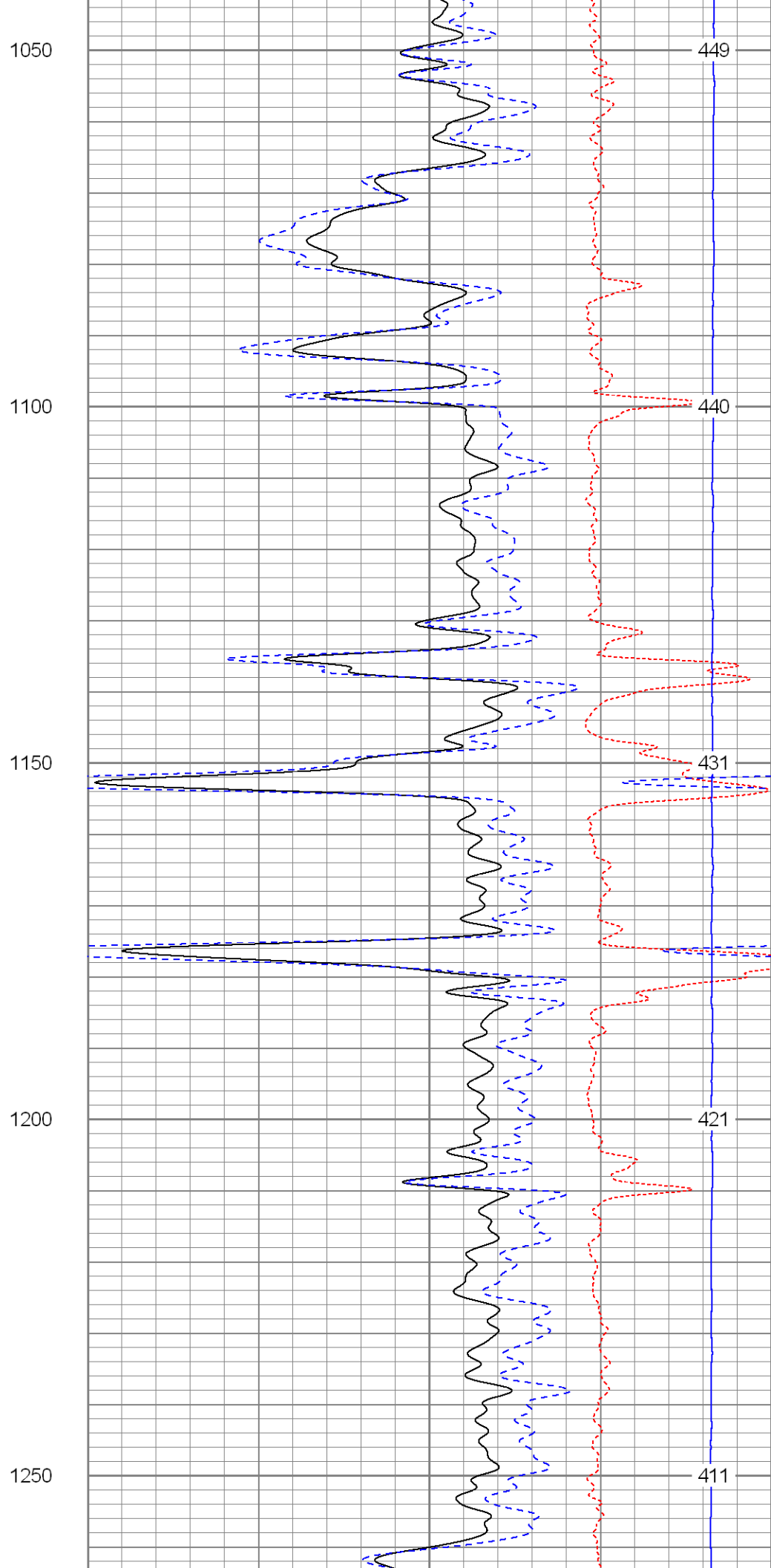
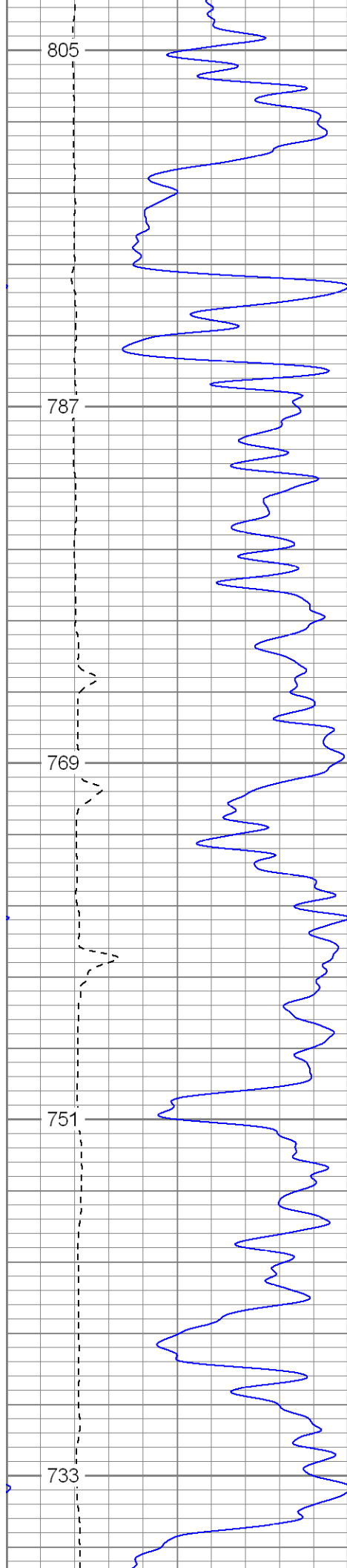
Main Pass

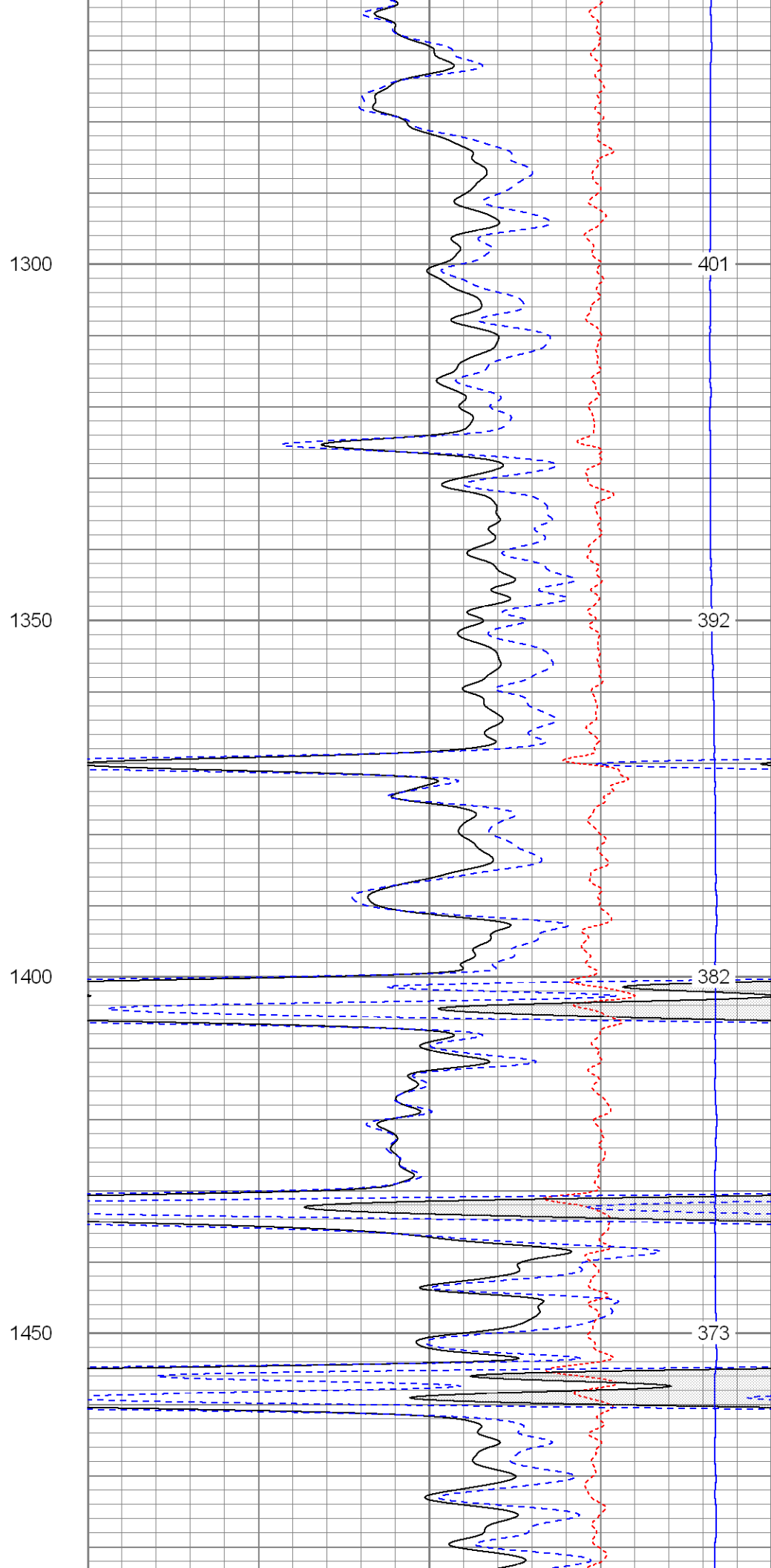
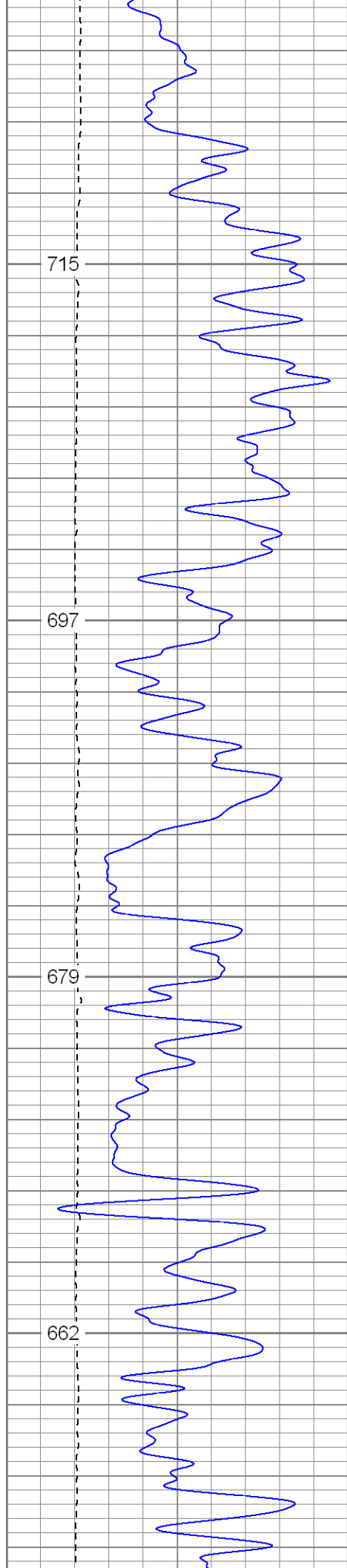
Database File: redbuddi.db
Dataset Pathname: pass2
Presentation Format: cdl
Dataset Creation: Wed Dec 02 07:44:24 2009 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

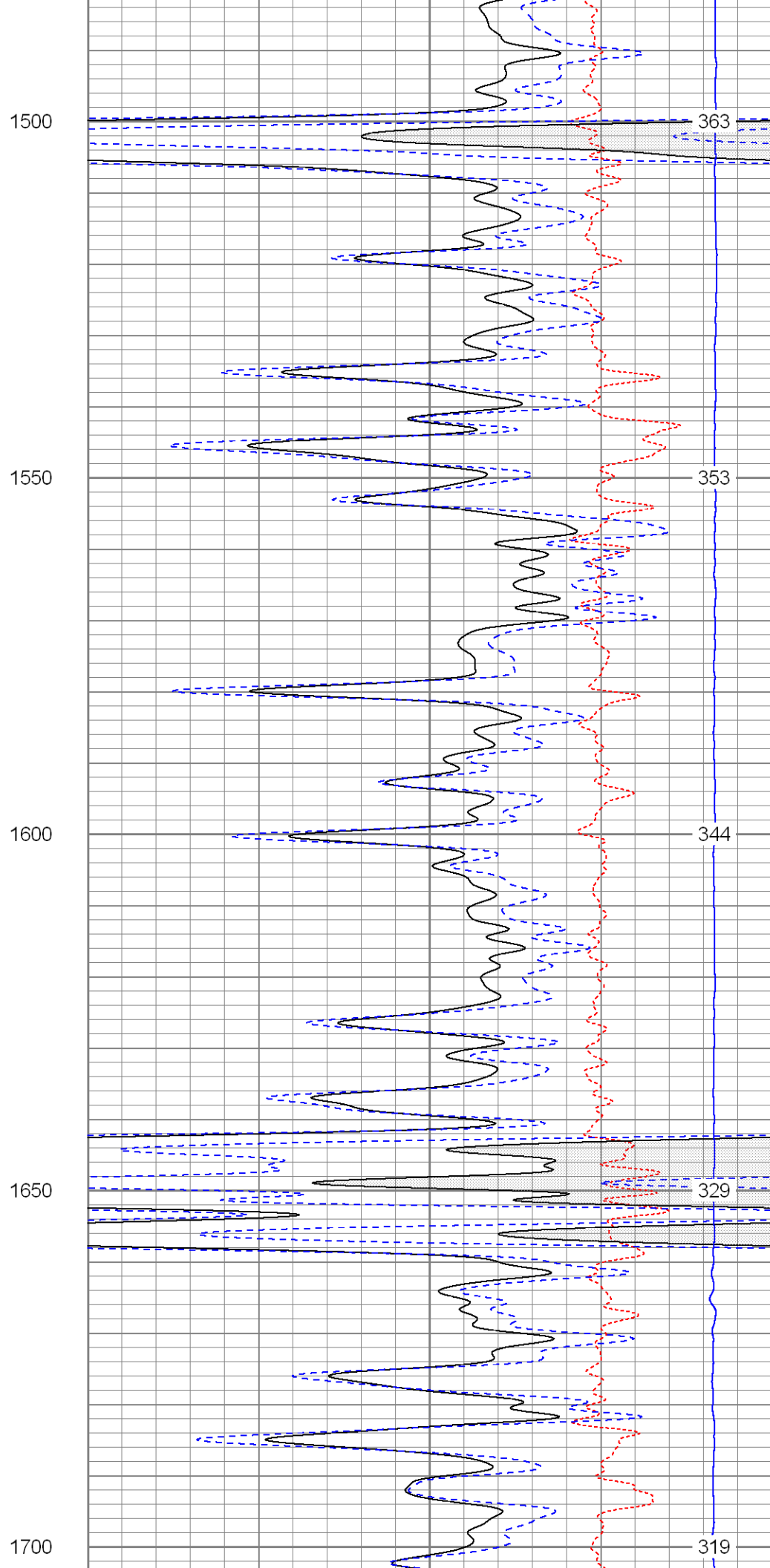
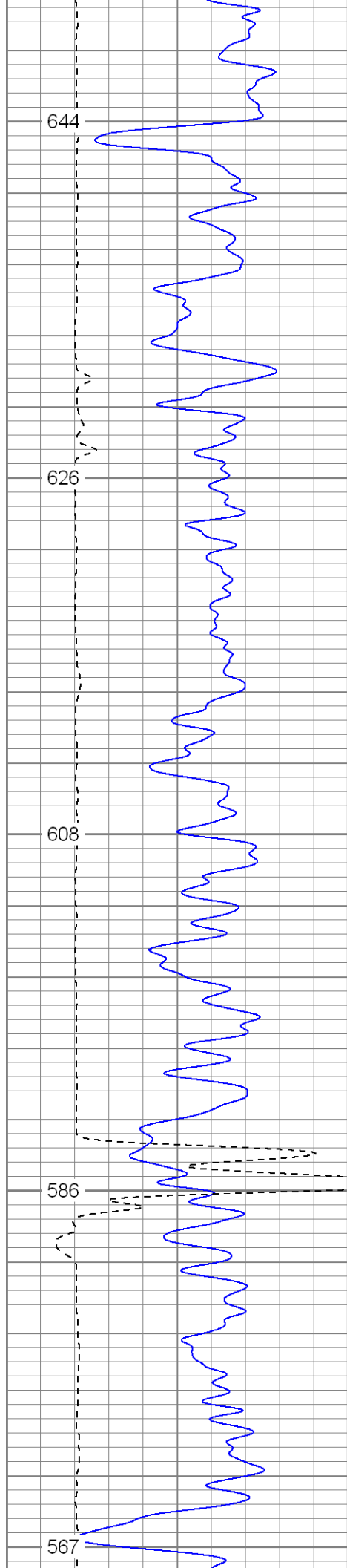
0	GR (GAPI)	200	2	RHOB (g/cc)		3
6	DCAL (in)	16	1	RHOB (g/cc)		2
TBHV (ft3)			30	DPOR (pu)		-10
				-0.5	RHOC (g/cc)	0.5
				7000	LTEN (lb)	0
						ABHV (ft3)

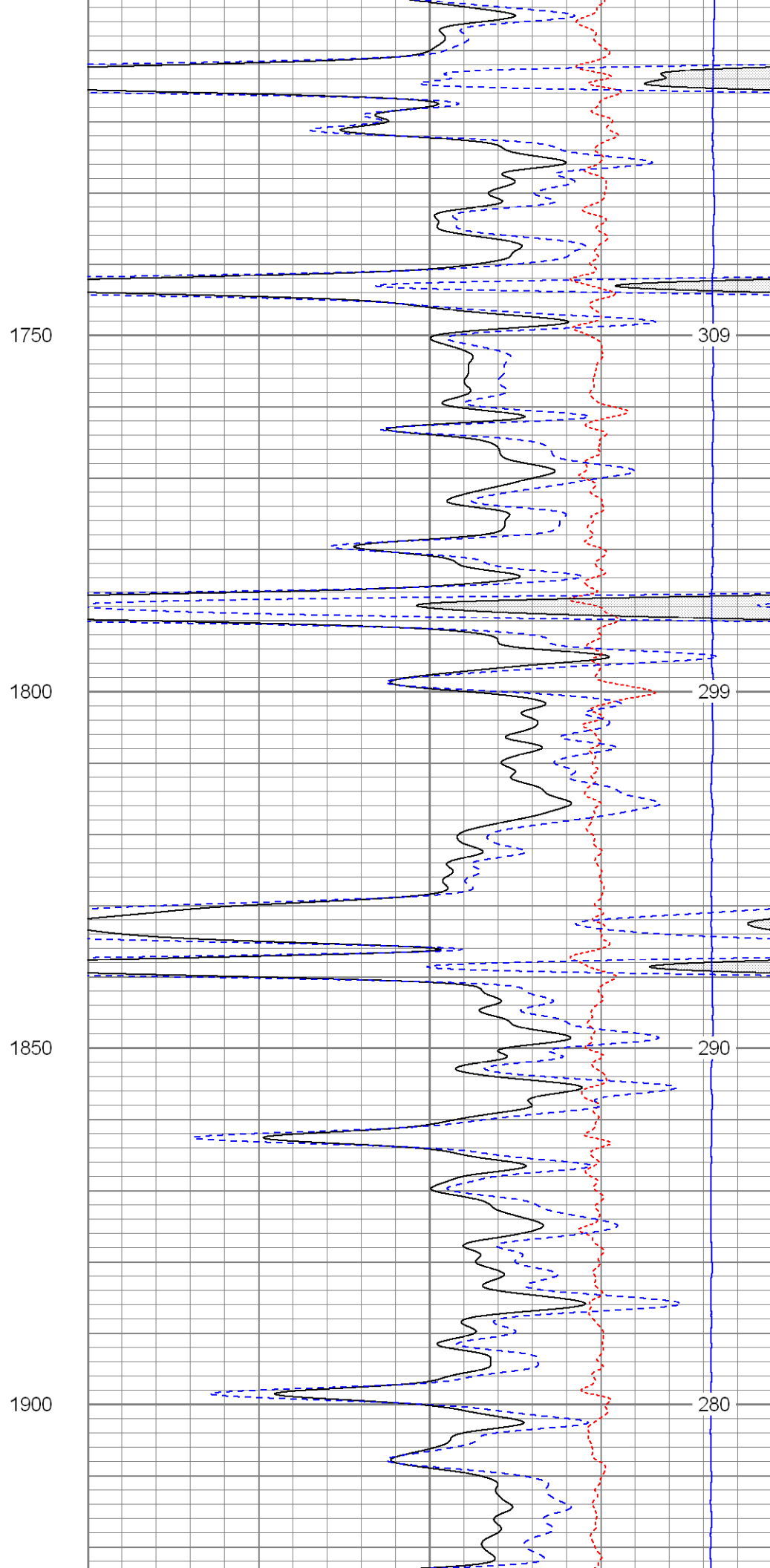
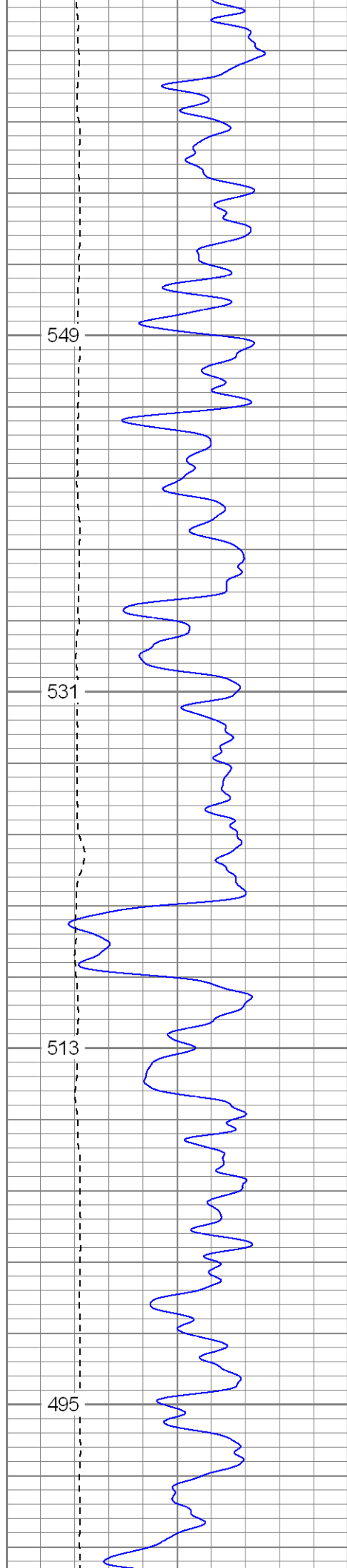


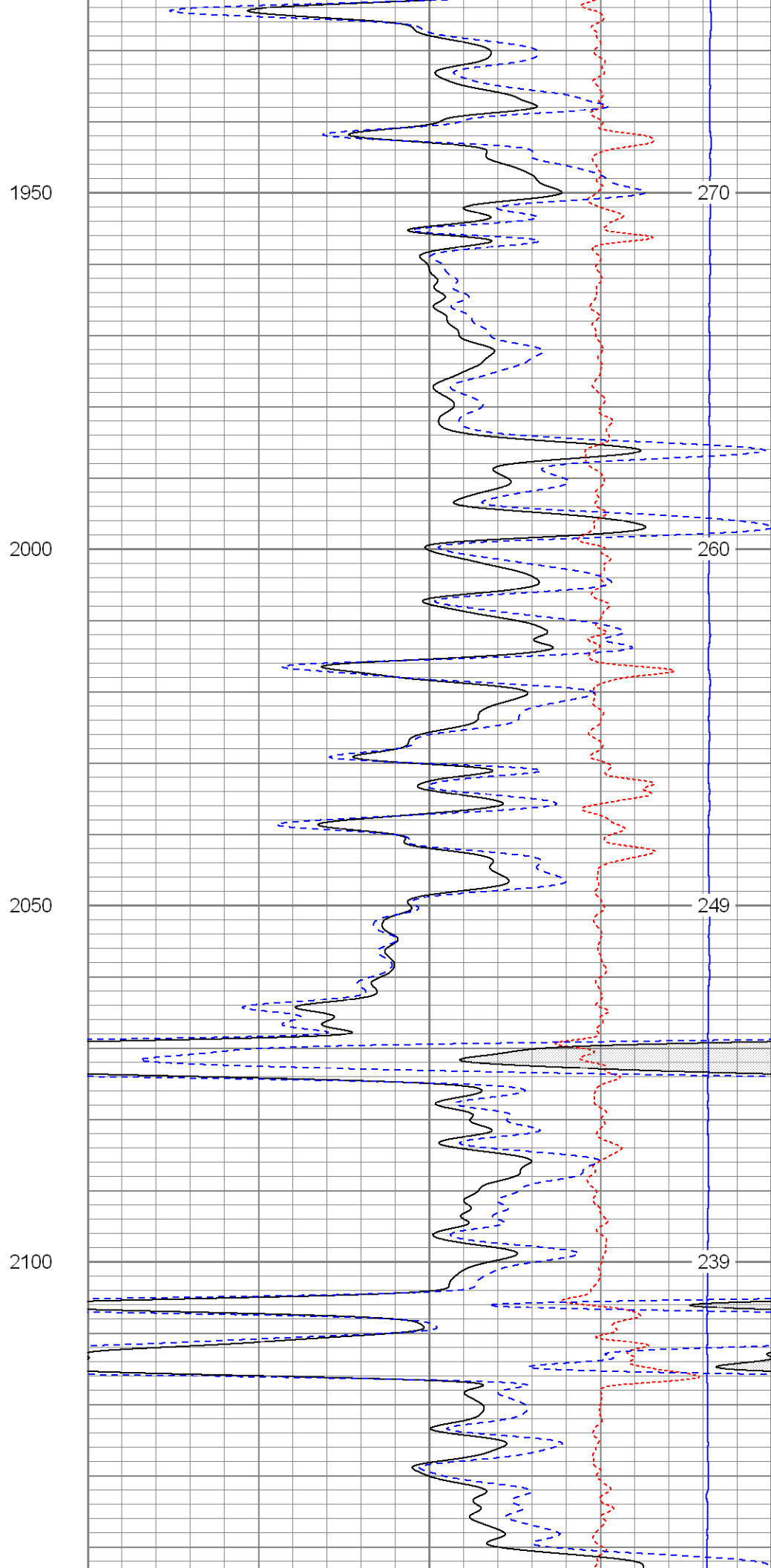
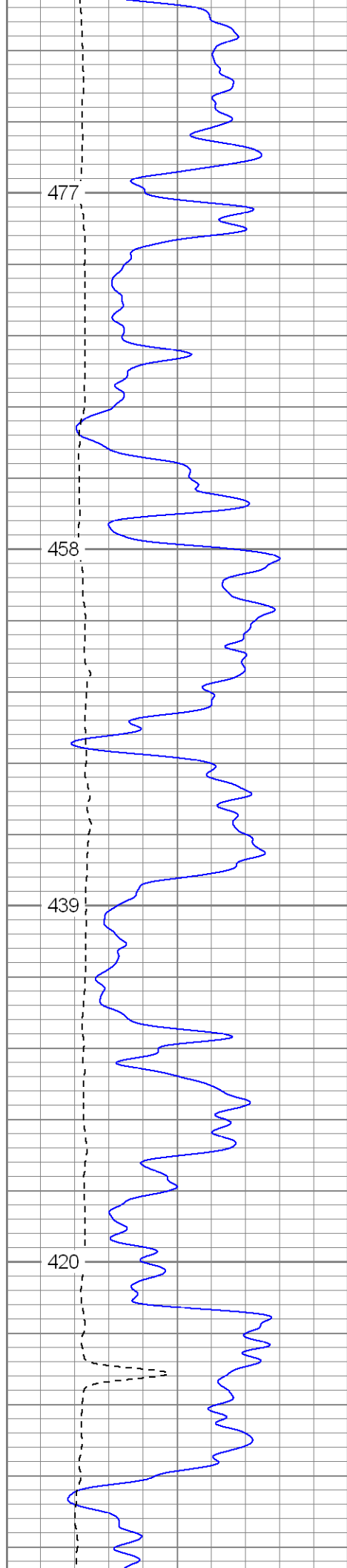


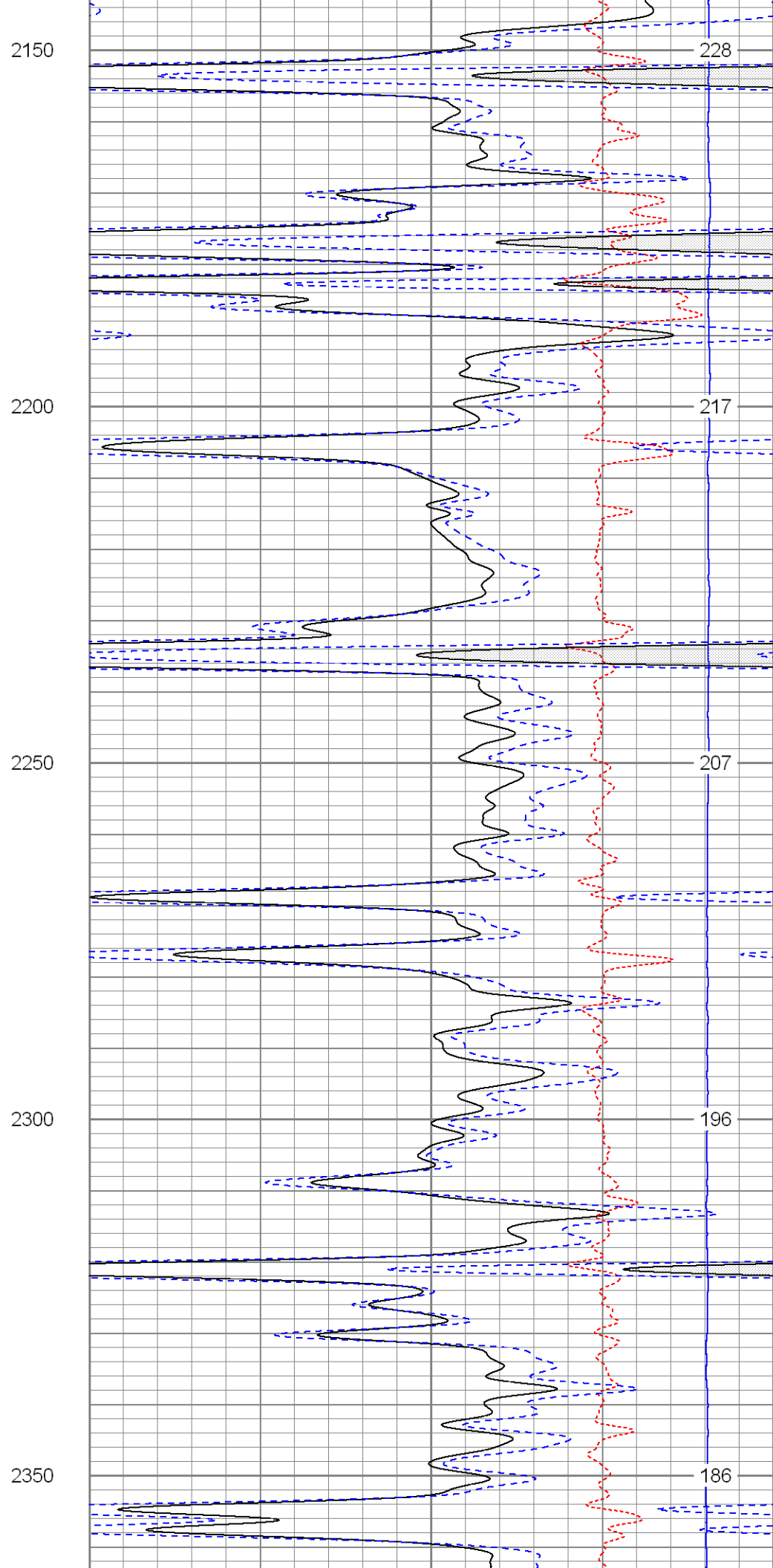
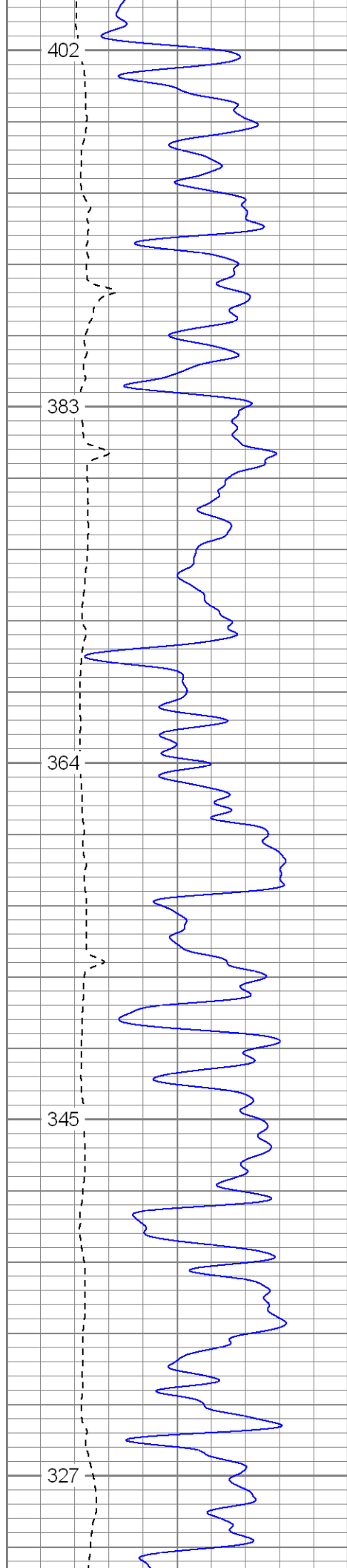


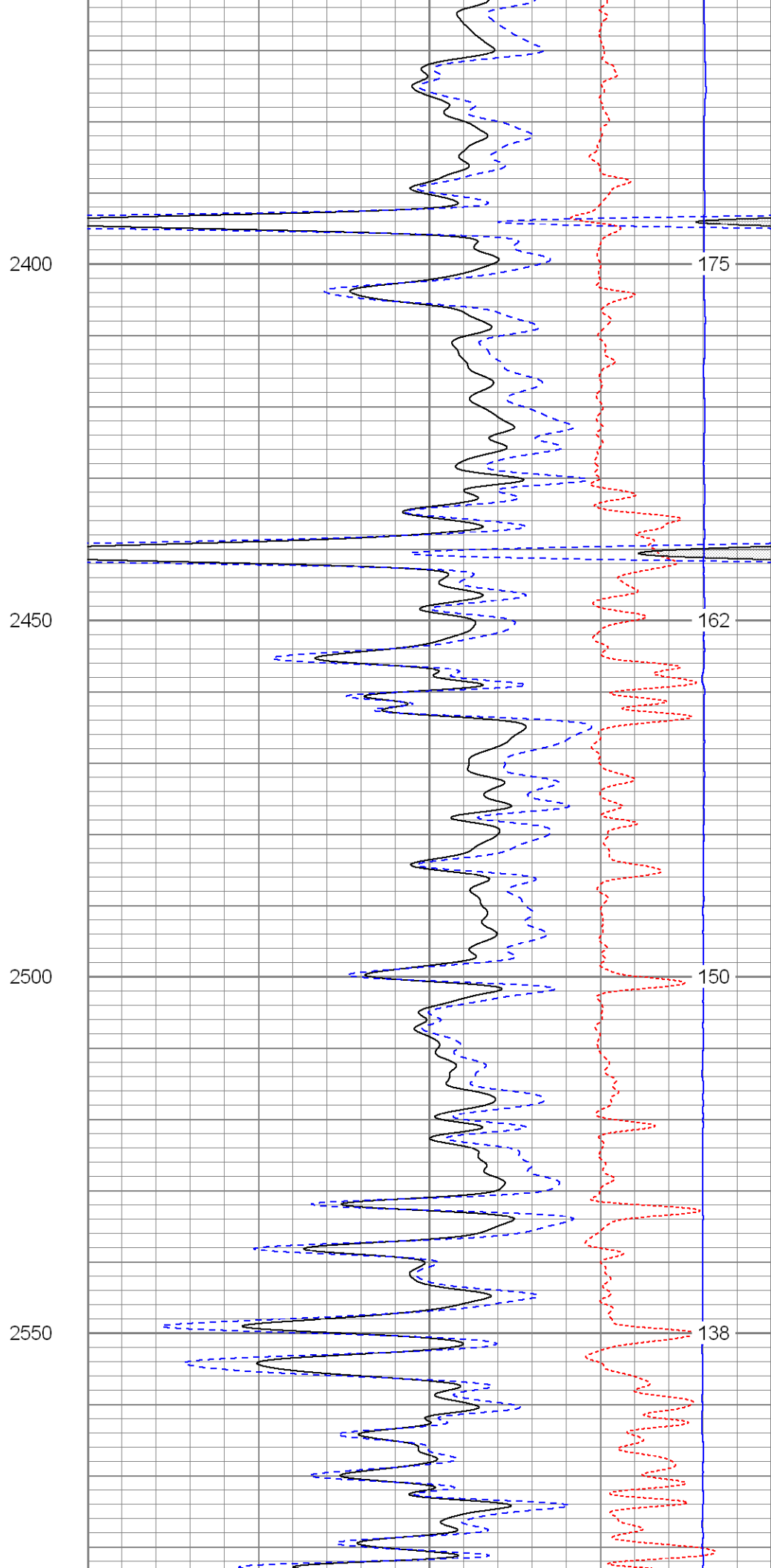
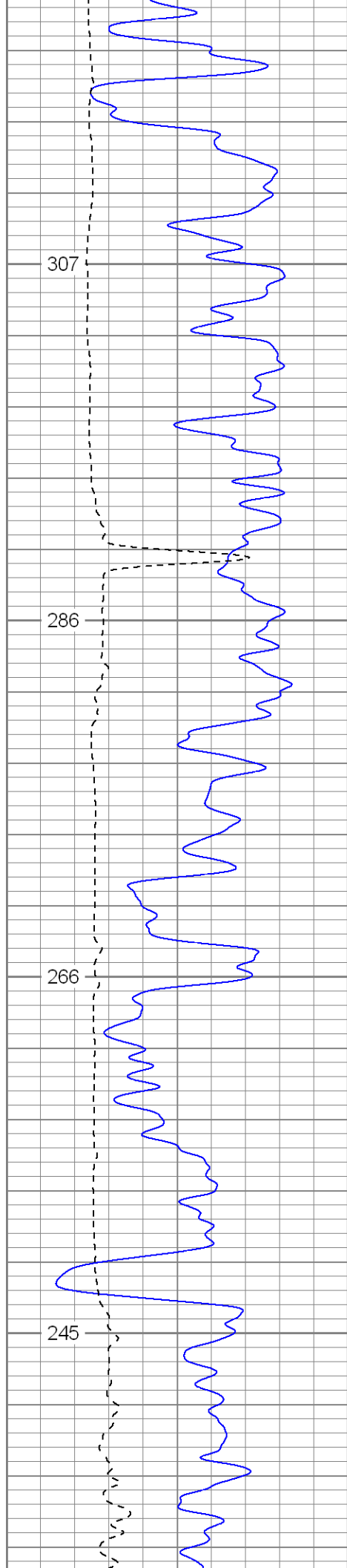


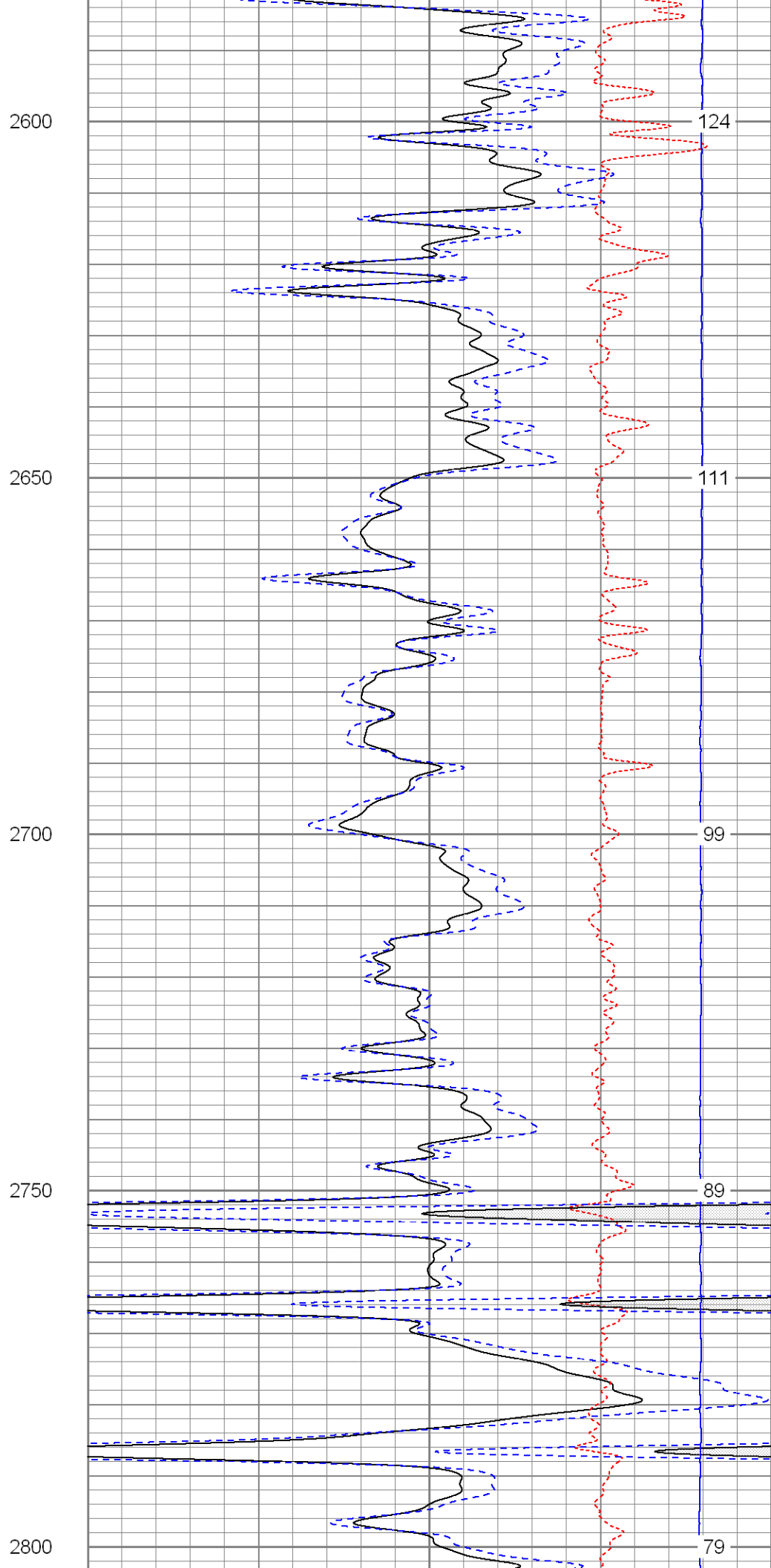
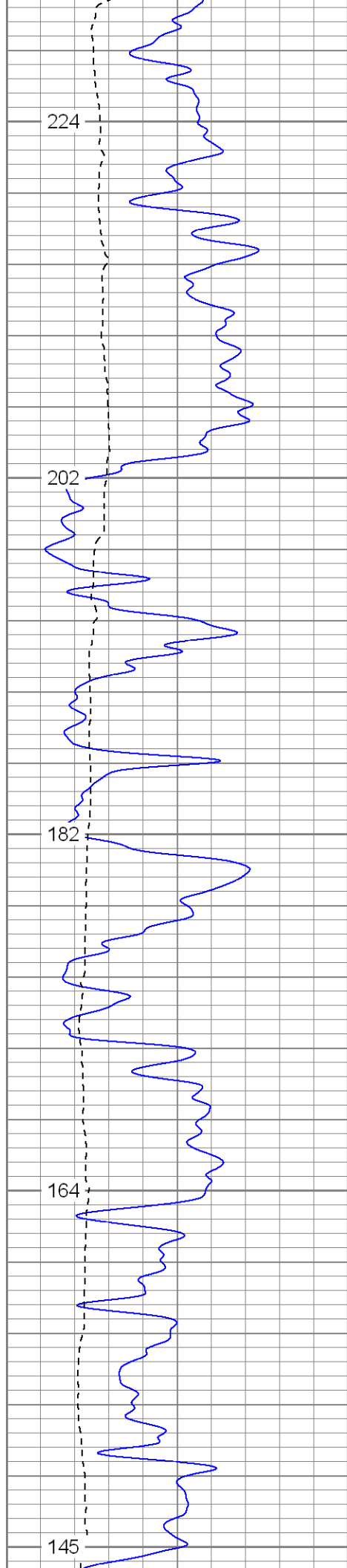


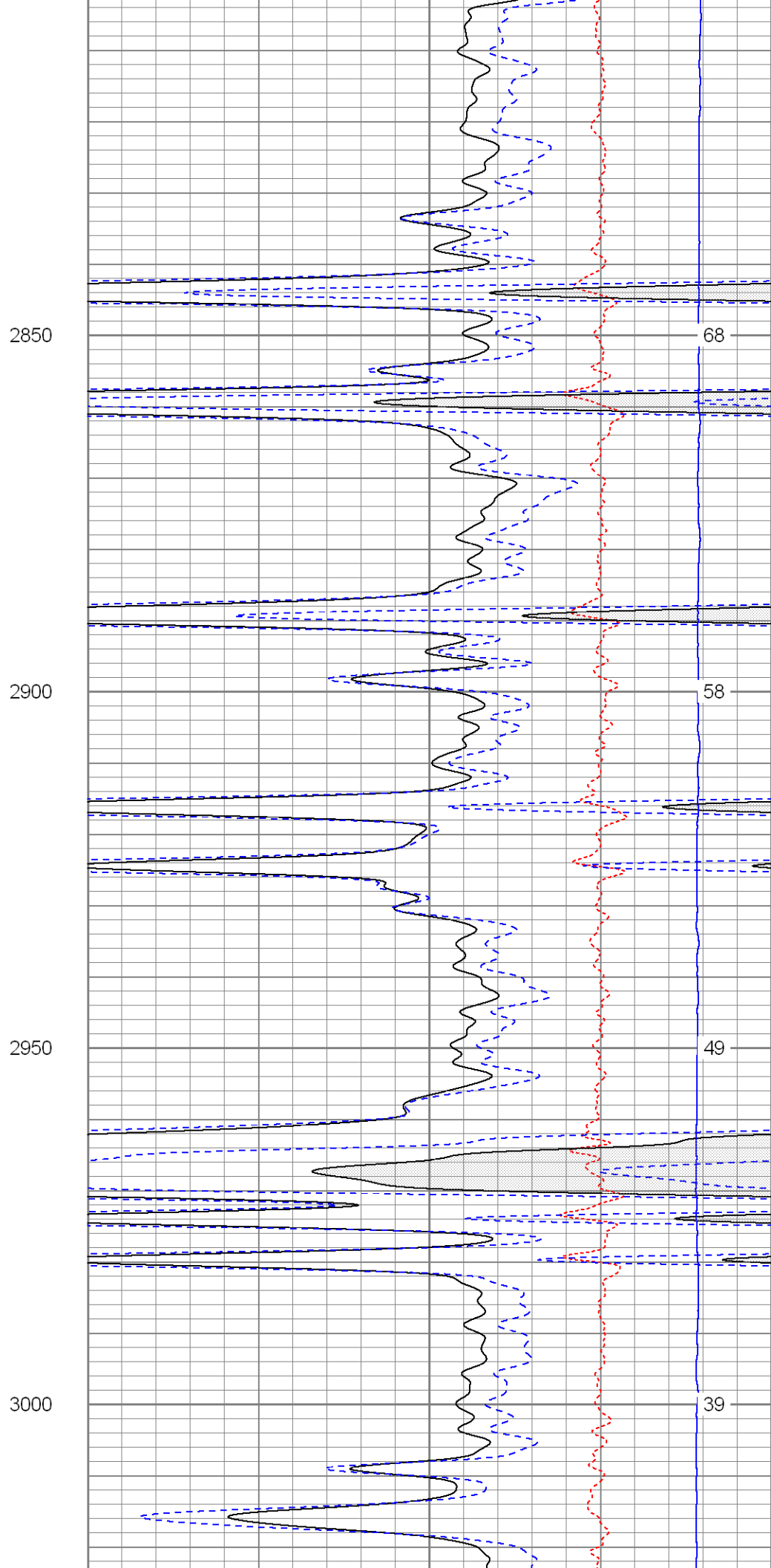
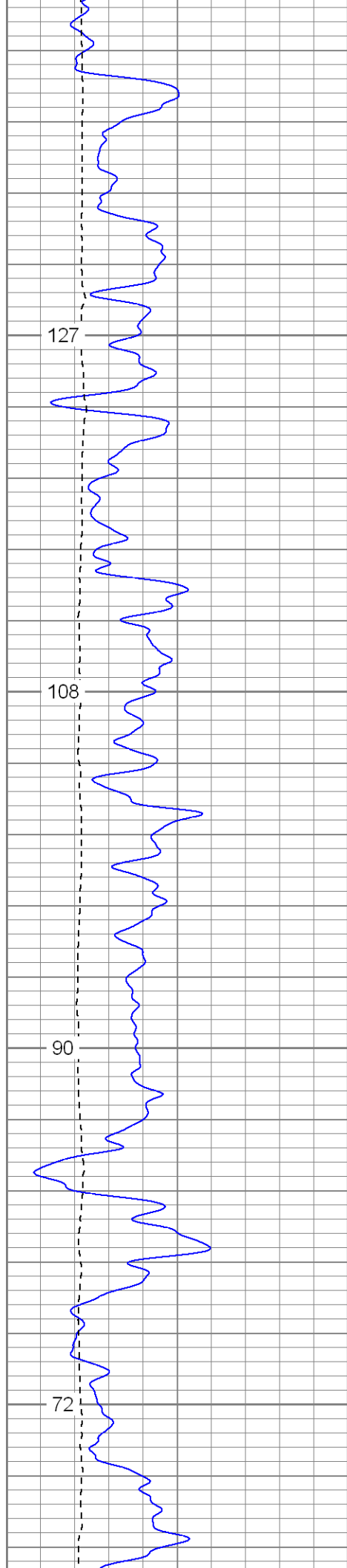


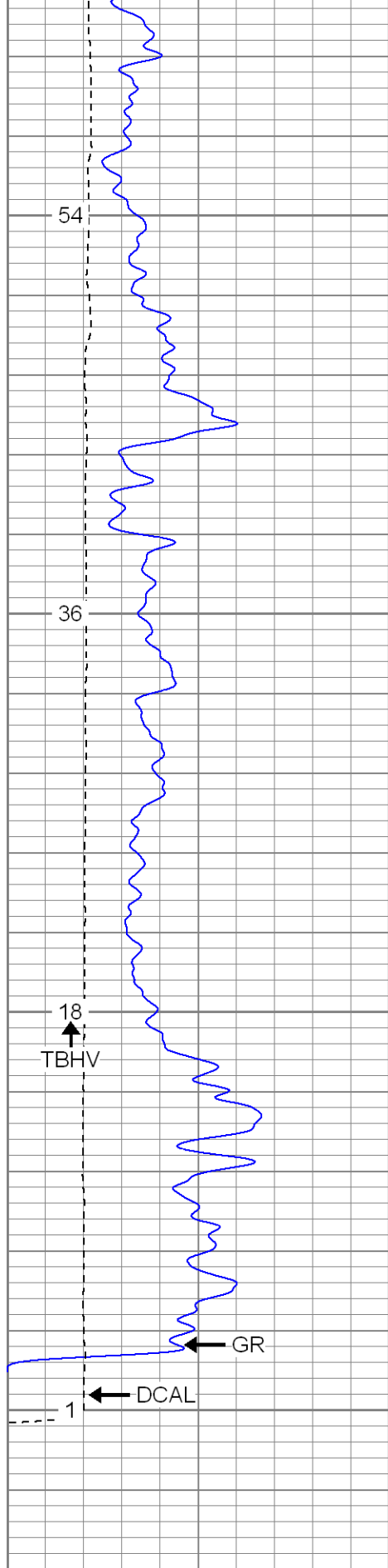




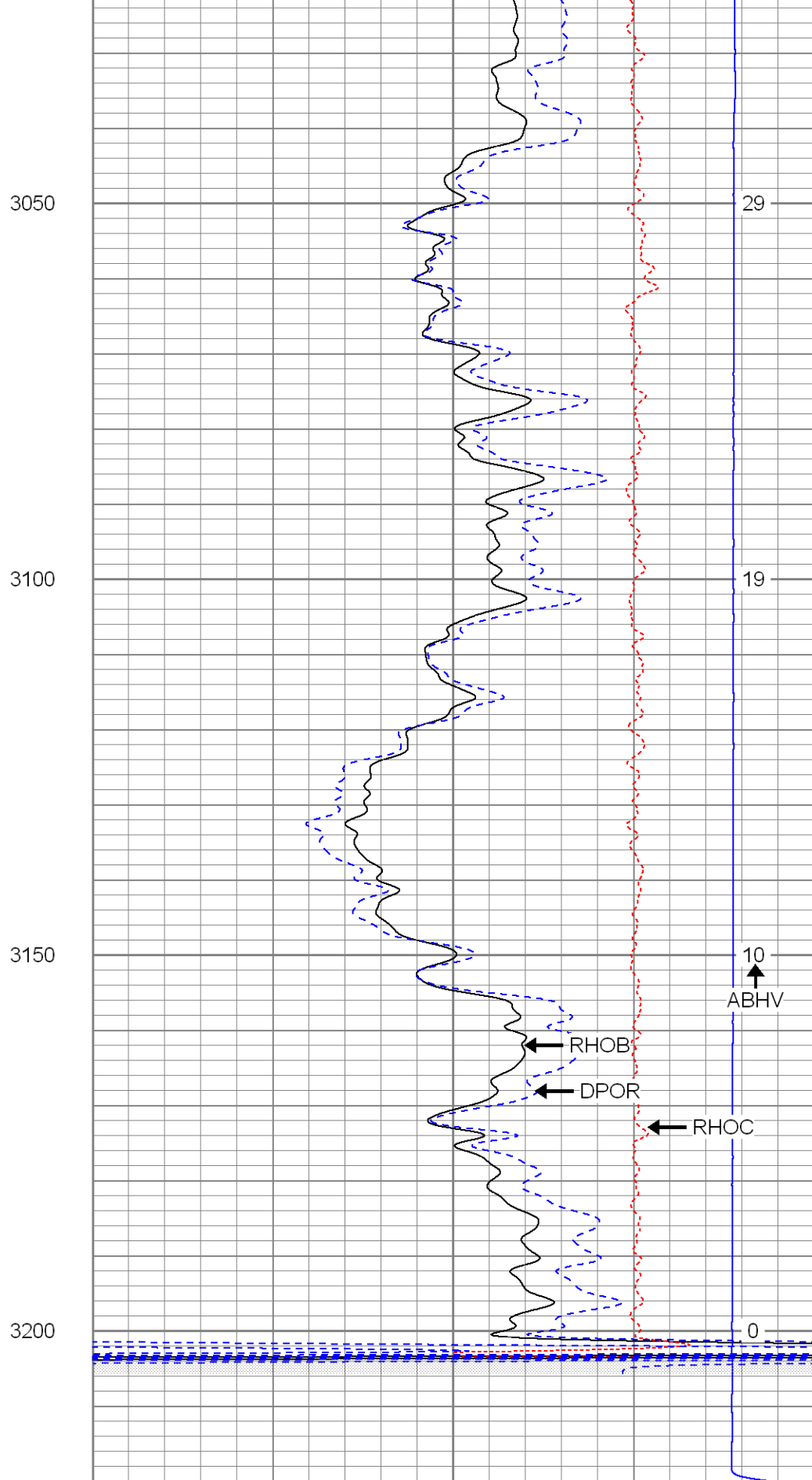








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0

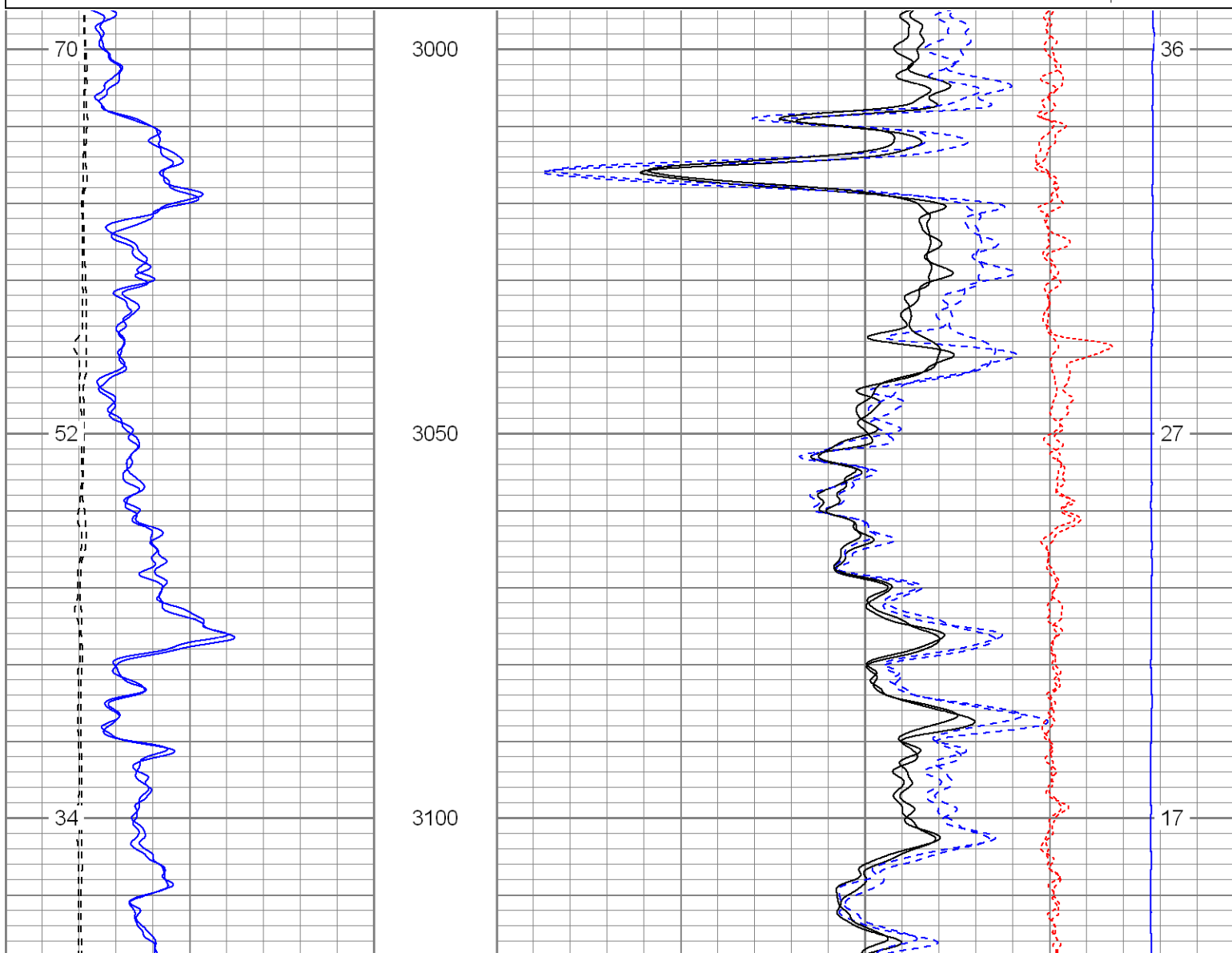


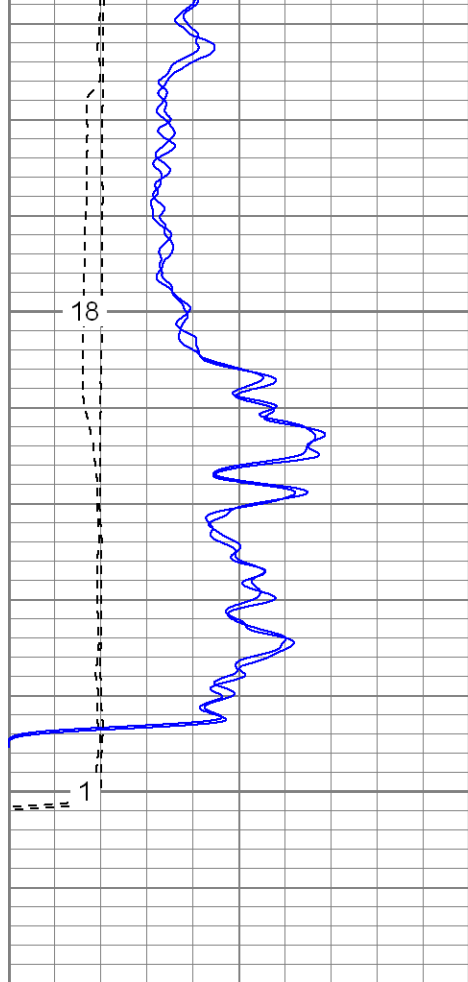
Repeat Section

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 Dataset Pathname: pass1
 Presentation Format: cdl
 Dataset Creation: Wed Dec 02 07:31:45 2009 by Log Open-Cased 071220
 Charted by: Depth in Feet scaled 1:240

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

2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
30	DPOR-repeat (pu)	-10
2	RHOB-repeat (g/cc)	3
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
ABHV (ft3)		

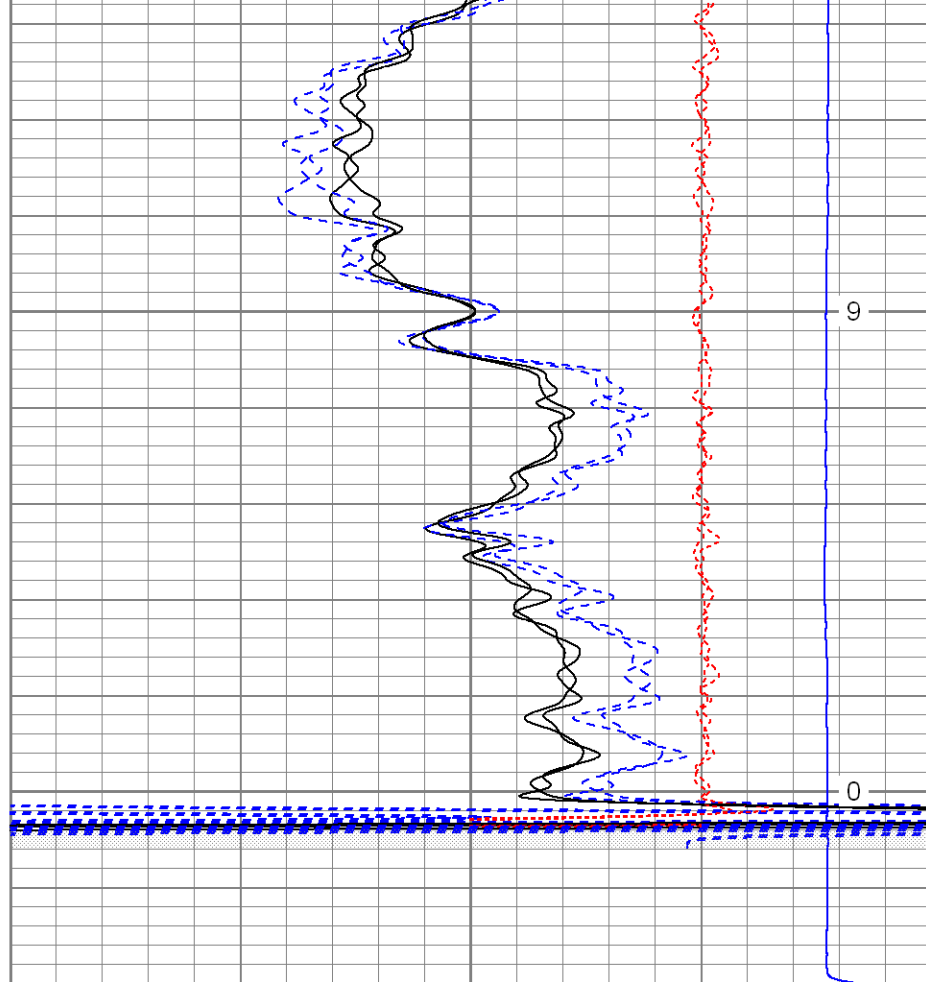




0	GR (GAPI)	200
6	DCAL (in)	16
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16
TBHV (ft3)		

3150

3200



2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
30	DPOR-repeat (pu)	-10
2	RHOB-repeat (g/cc)	3

-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
ABHV (ft3)		

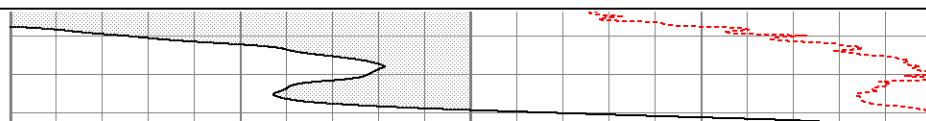


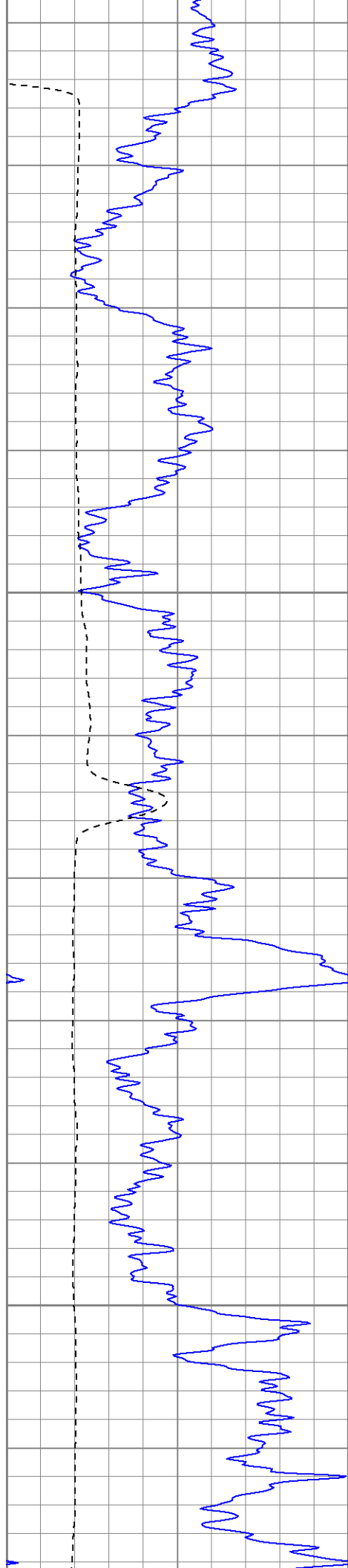
High Resolution Pass

Database File: redbuddi.db
 Dataset Pathname: pass2.2hr
 Presentation Format: cdlhr
 Dataset Creation: Wed Dec 02 13:28:01 2009 by Calc Open-Cased 071220
 Charted by: Depth in Feet scaled 1:120

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

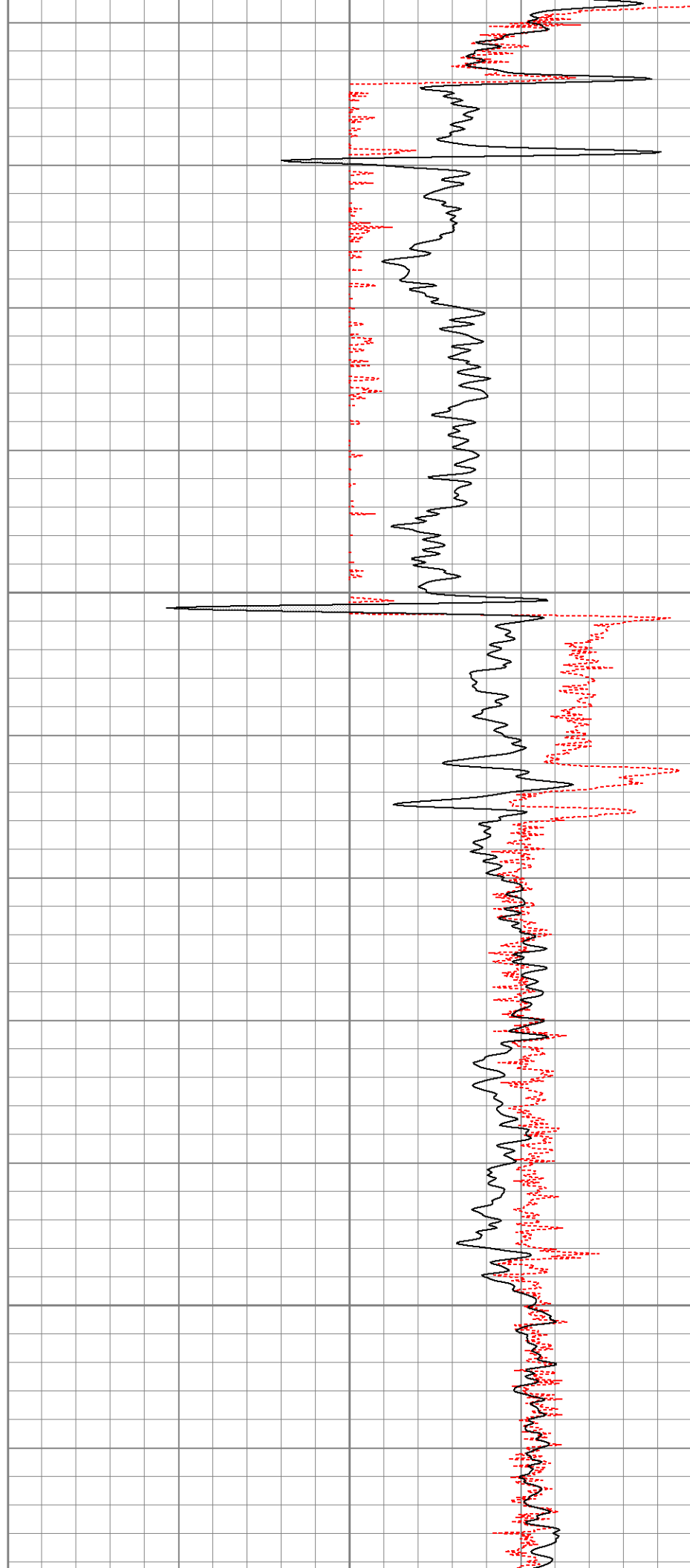
1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5

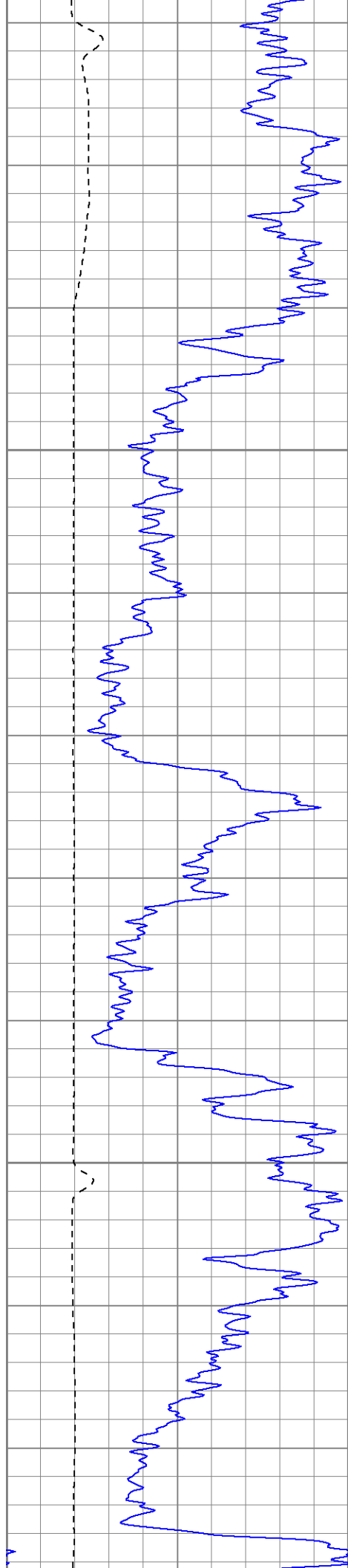




700

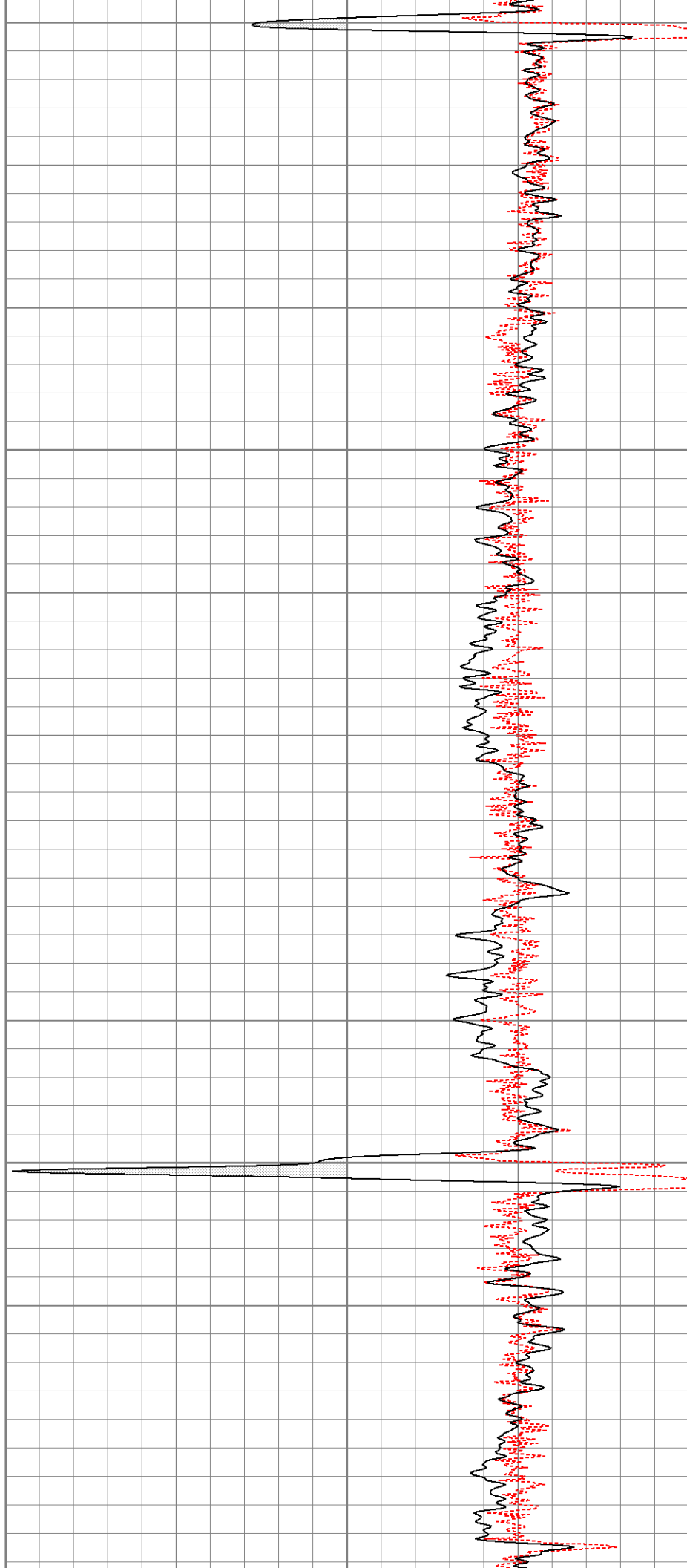
750

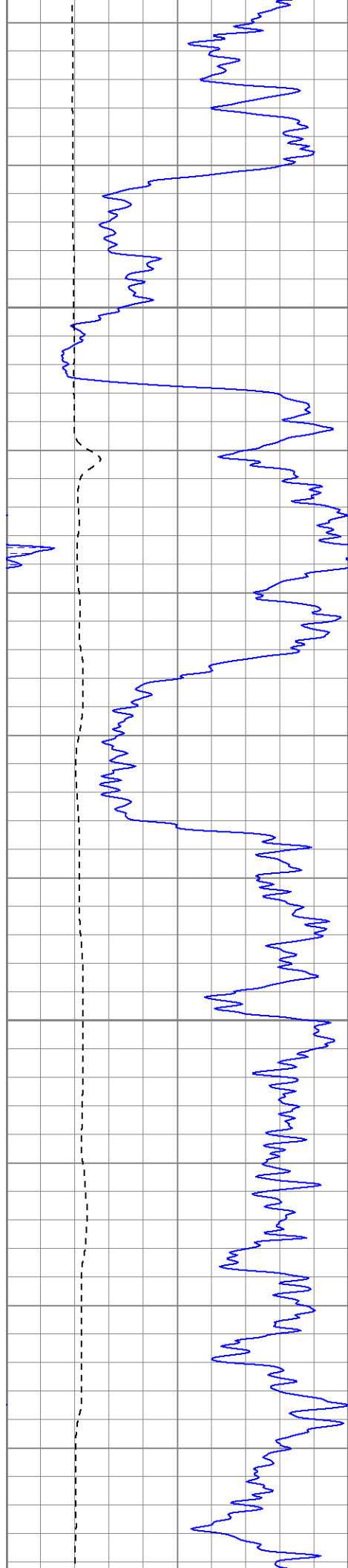




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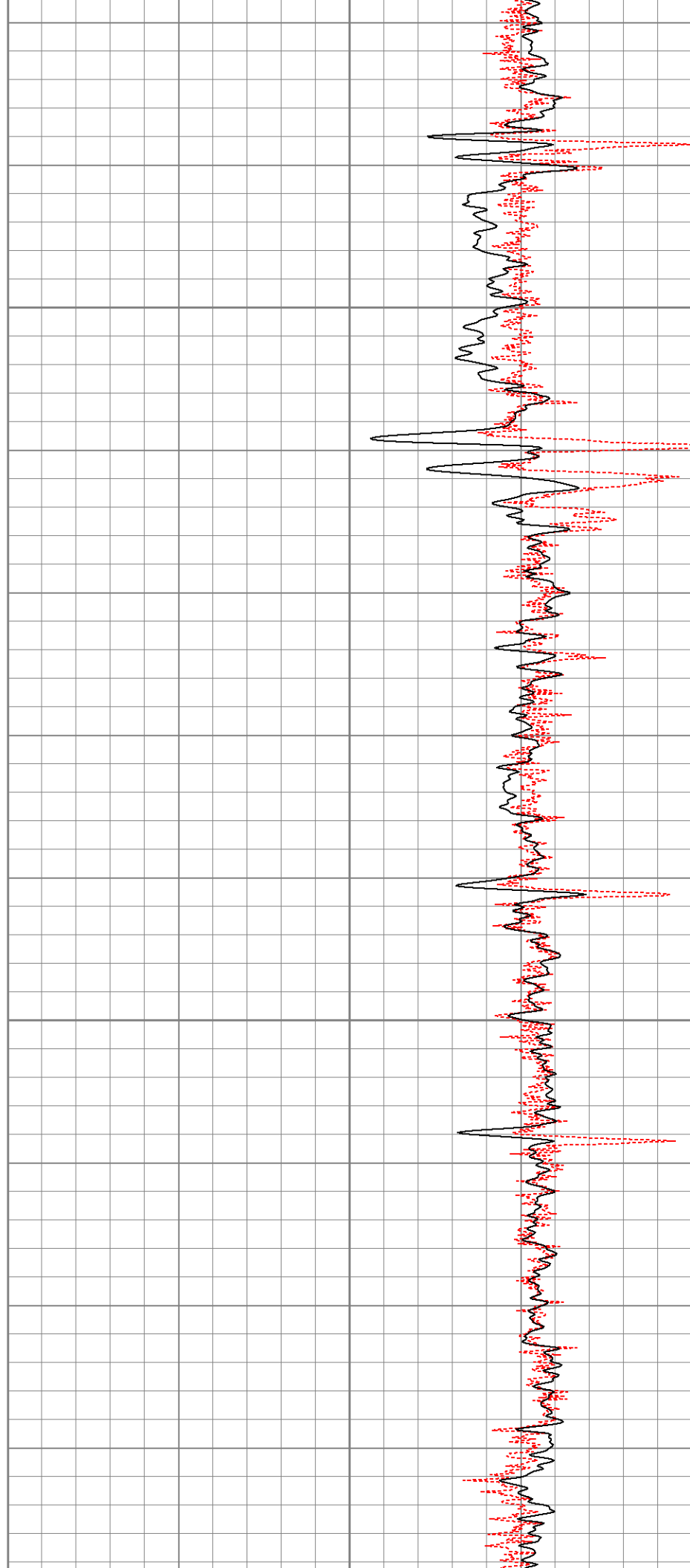
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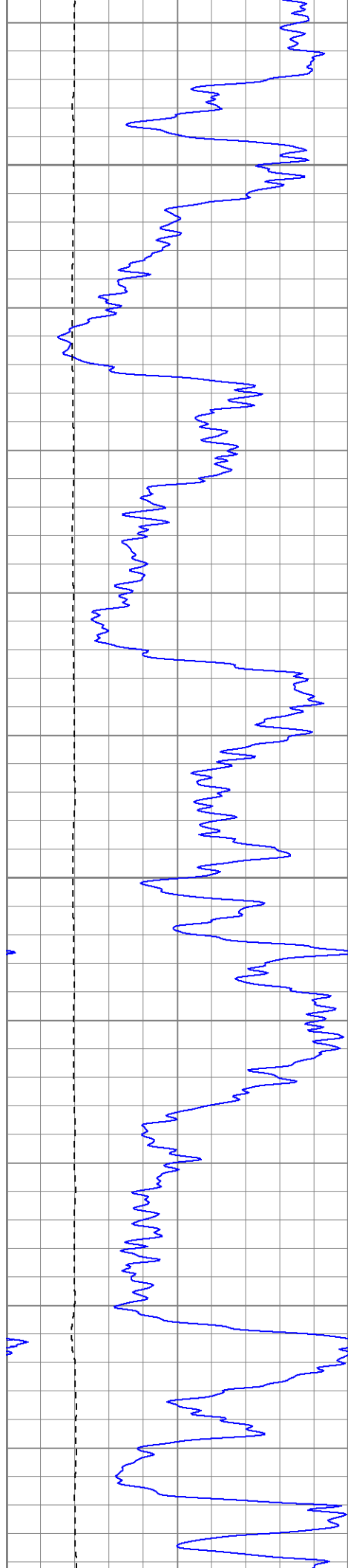




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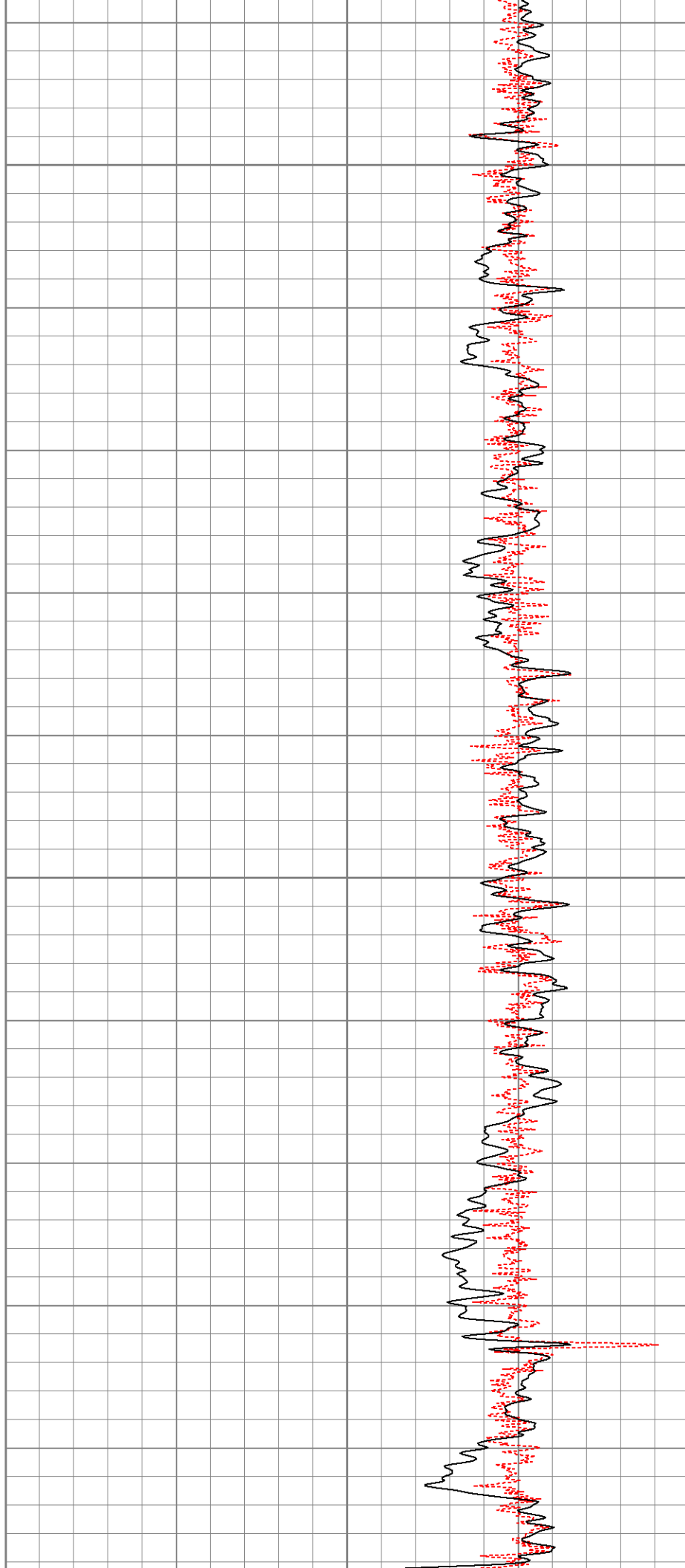
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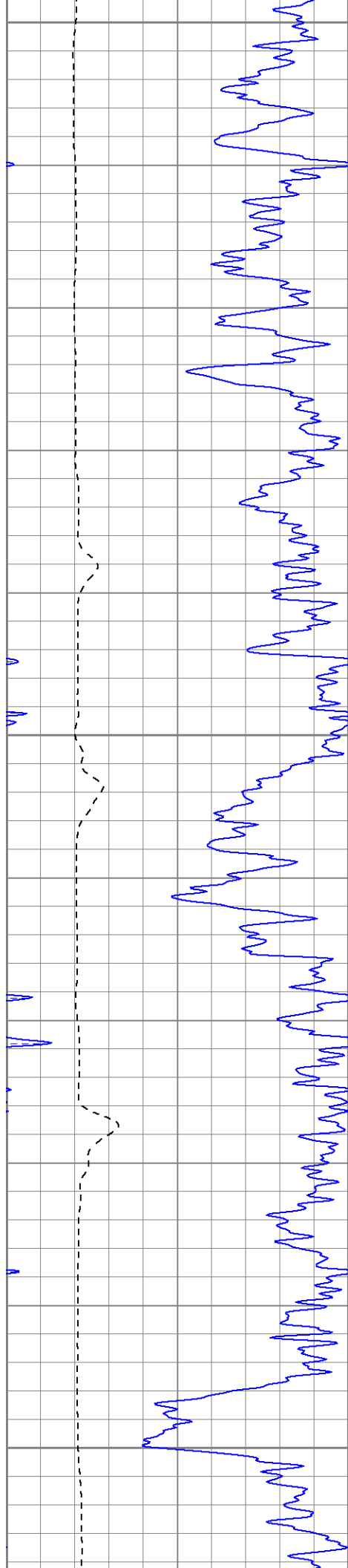




1000

1050

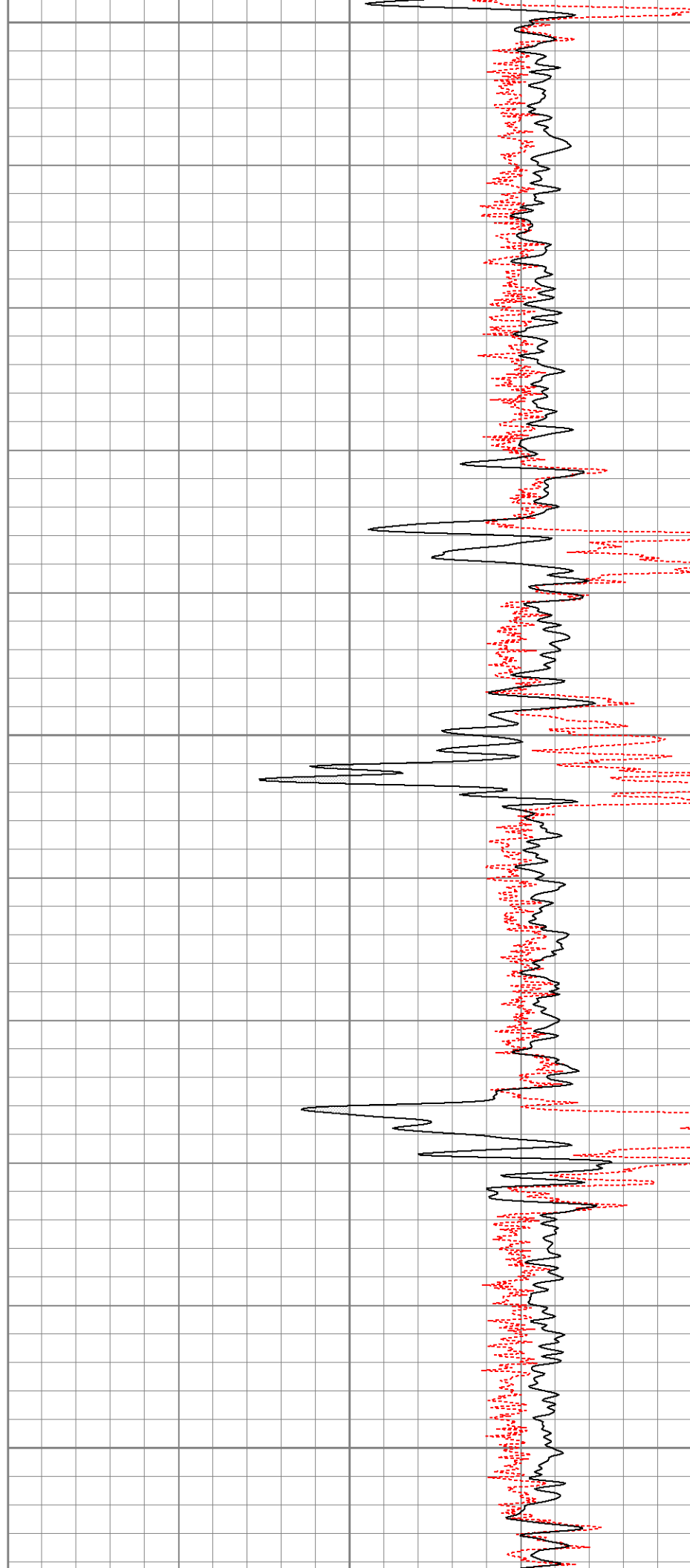


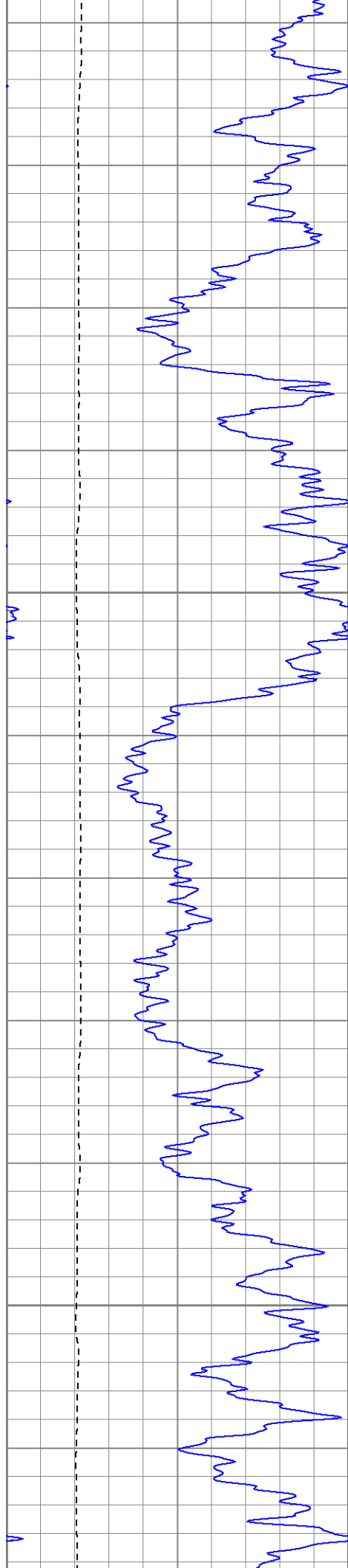


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1150

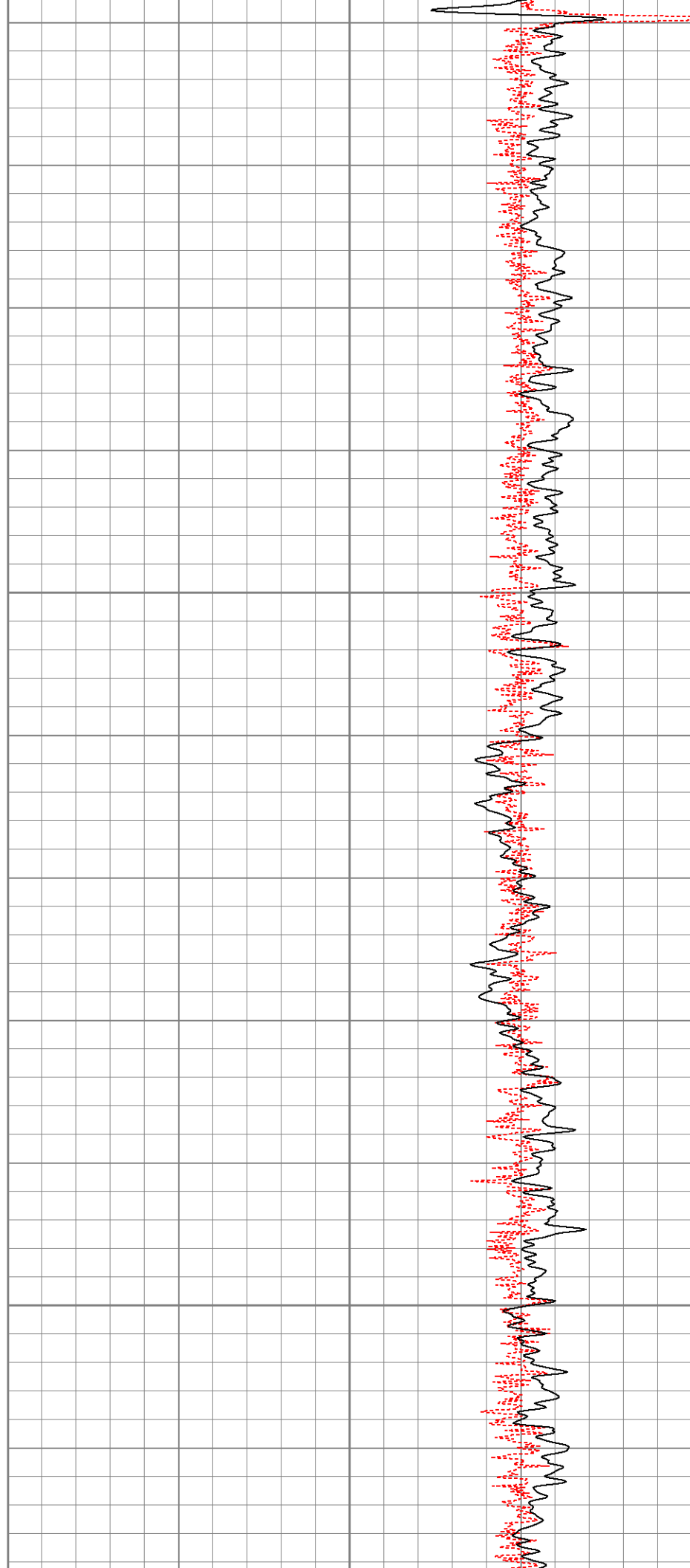
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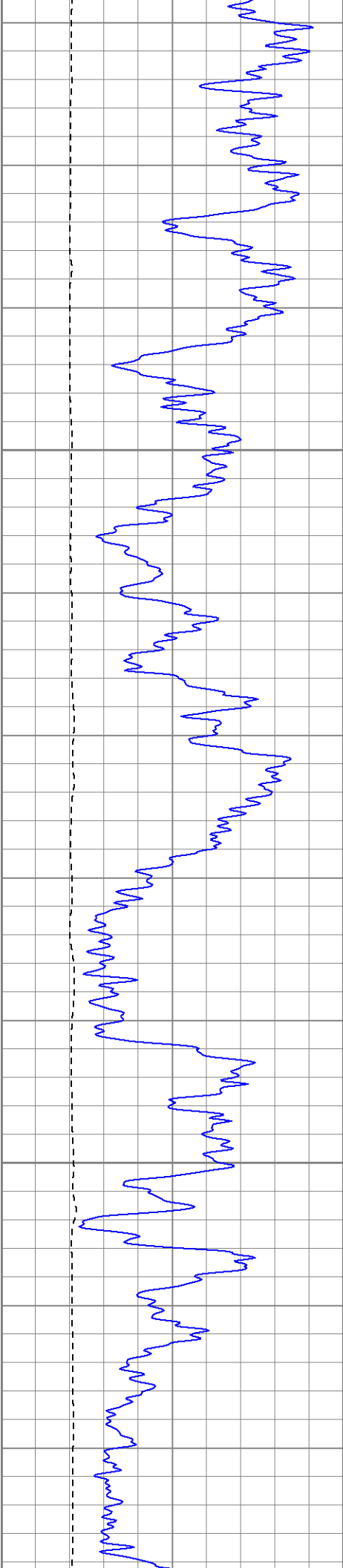




1250

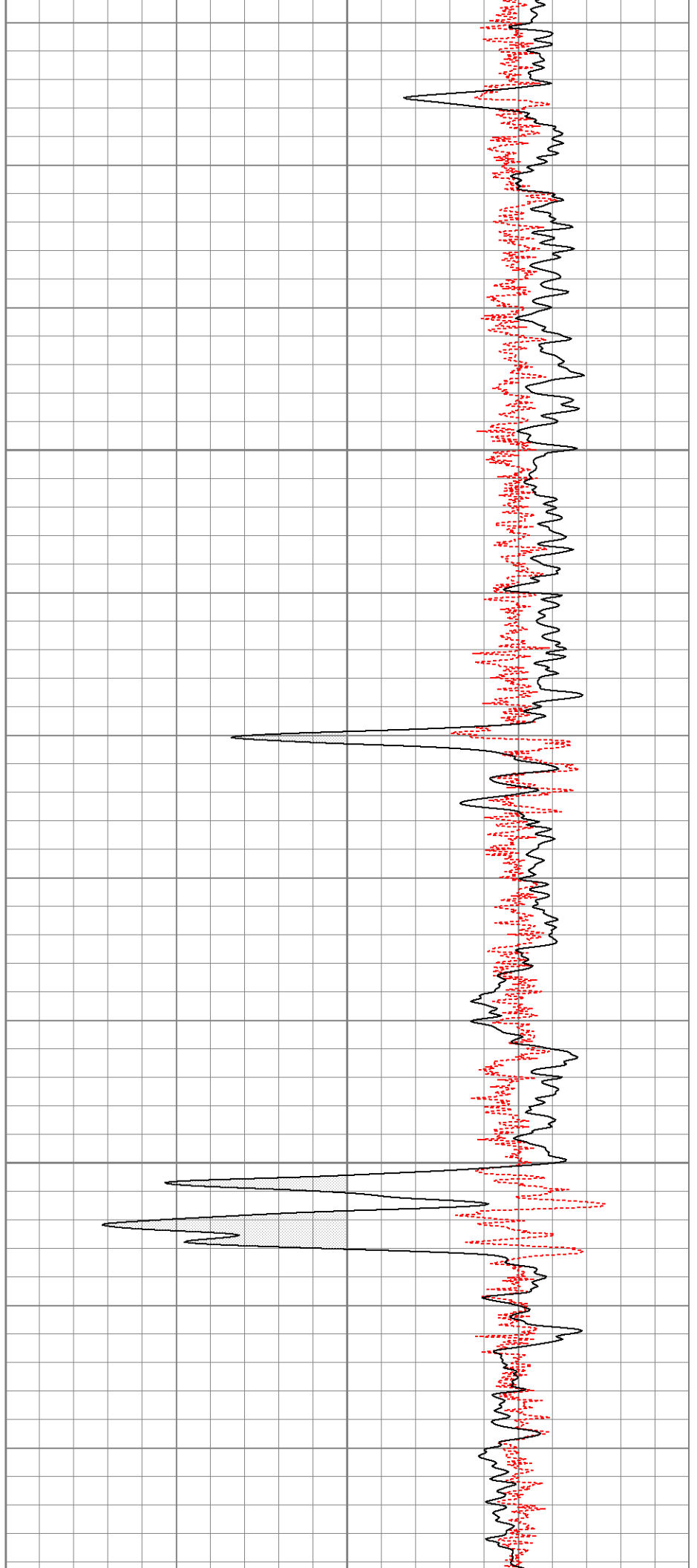
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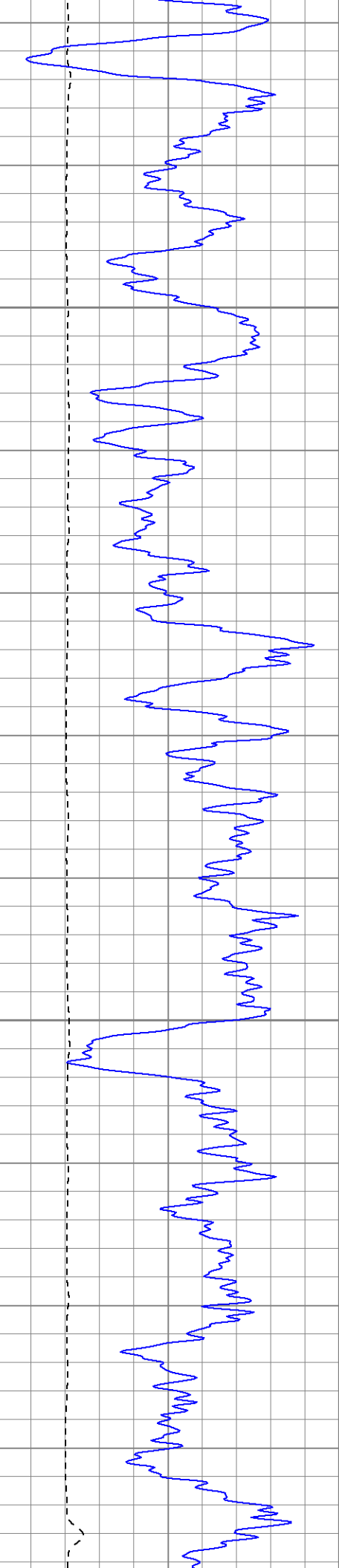




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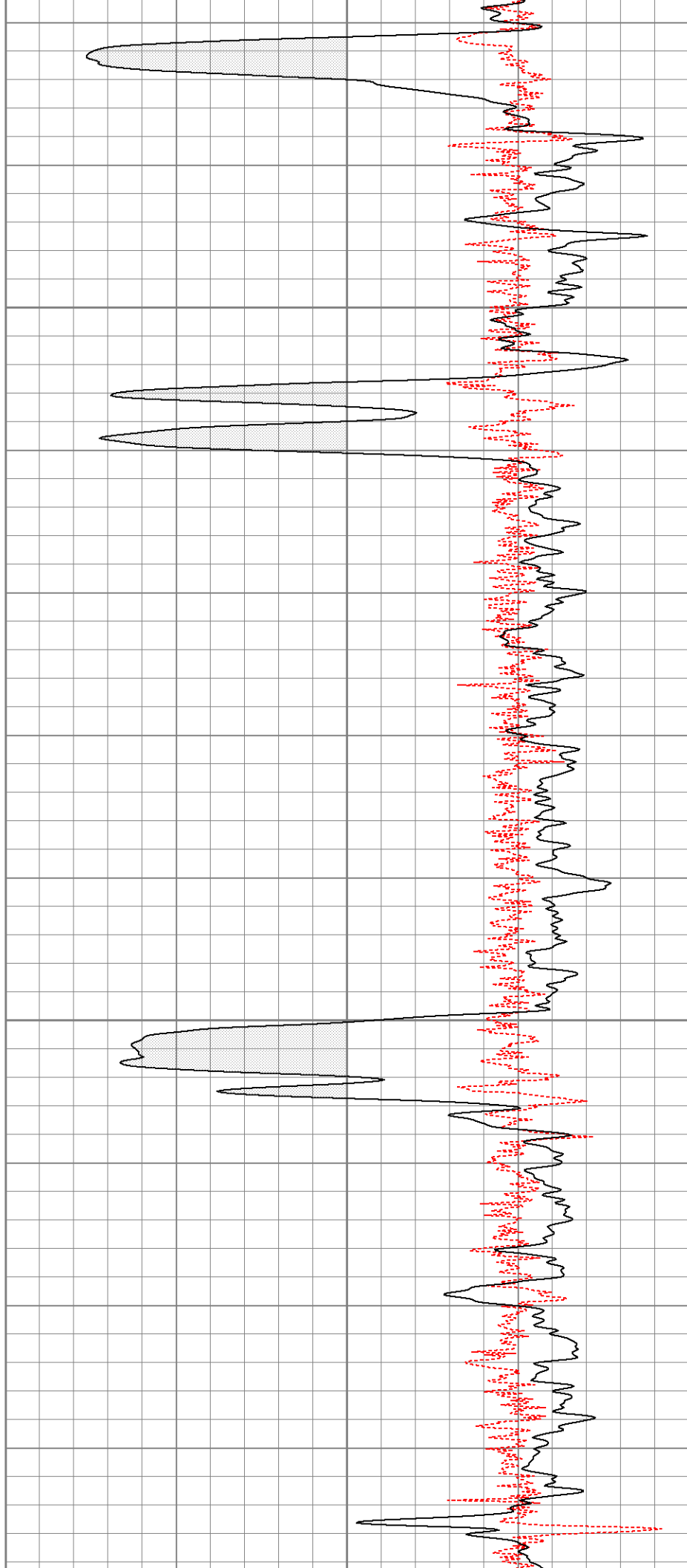
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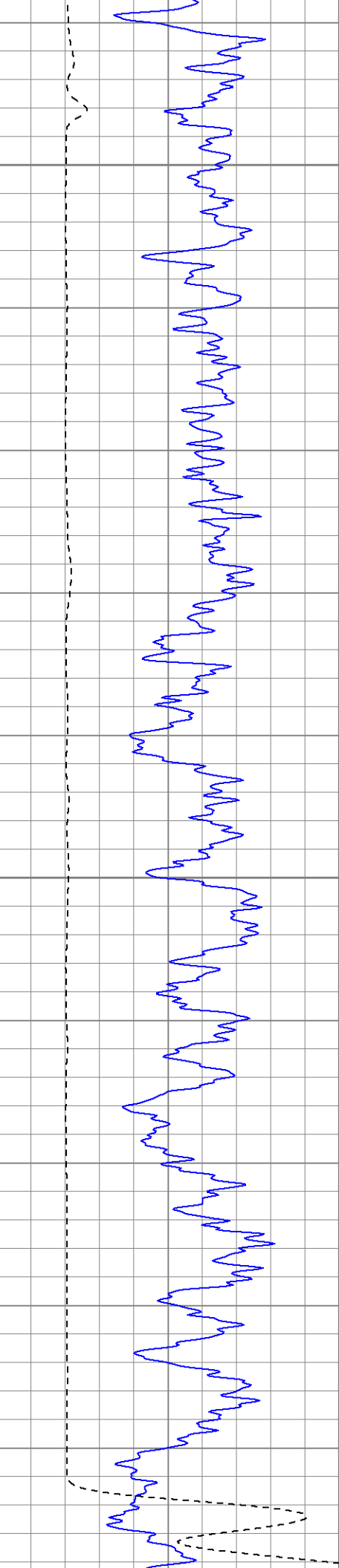




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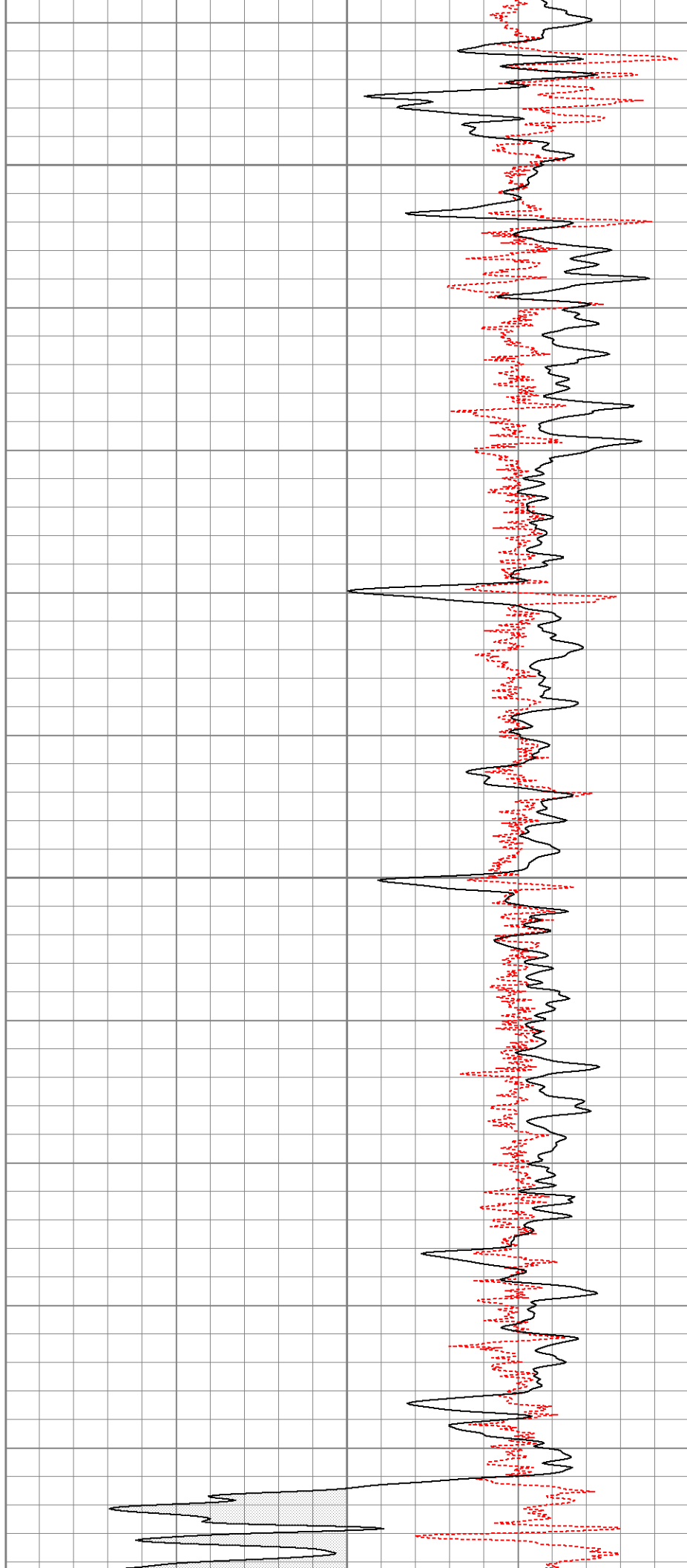
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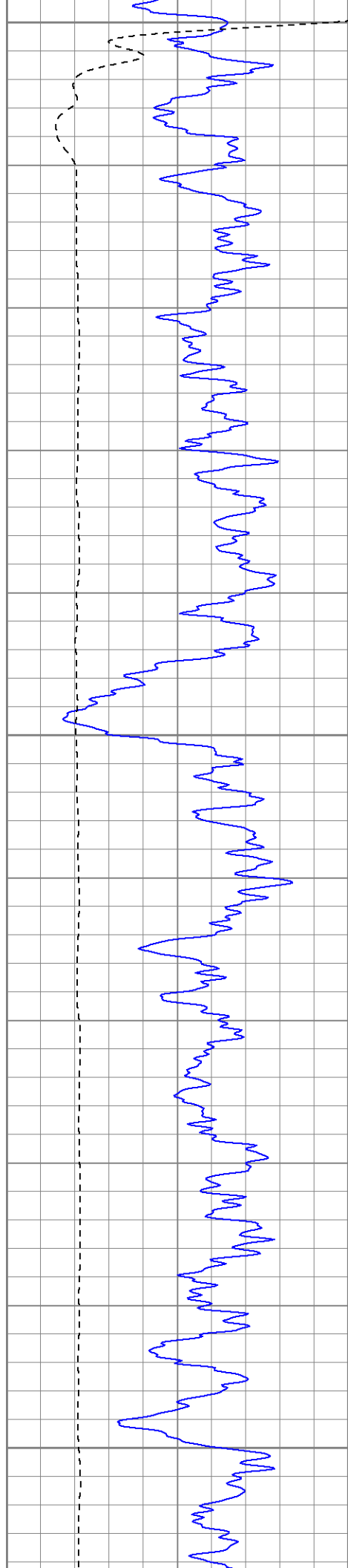




1550

1600

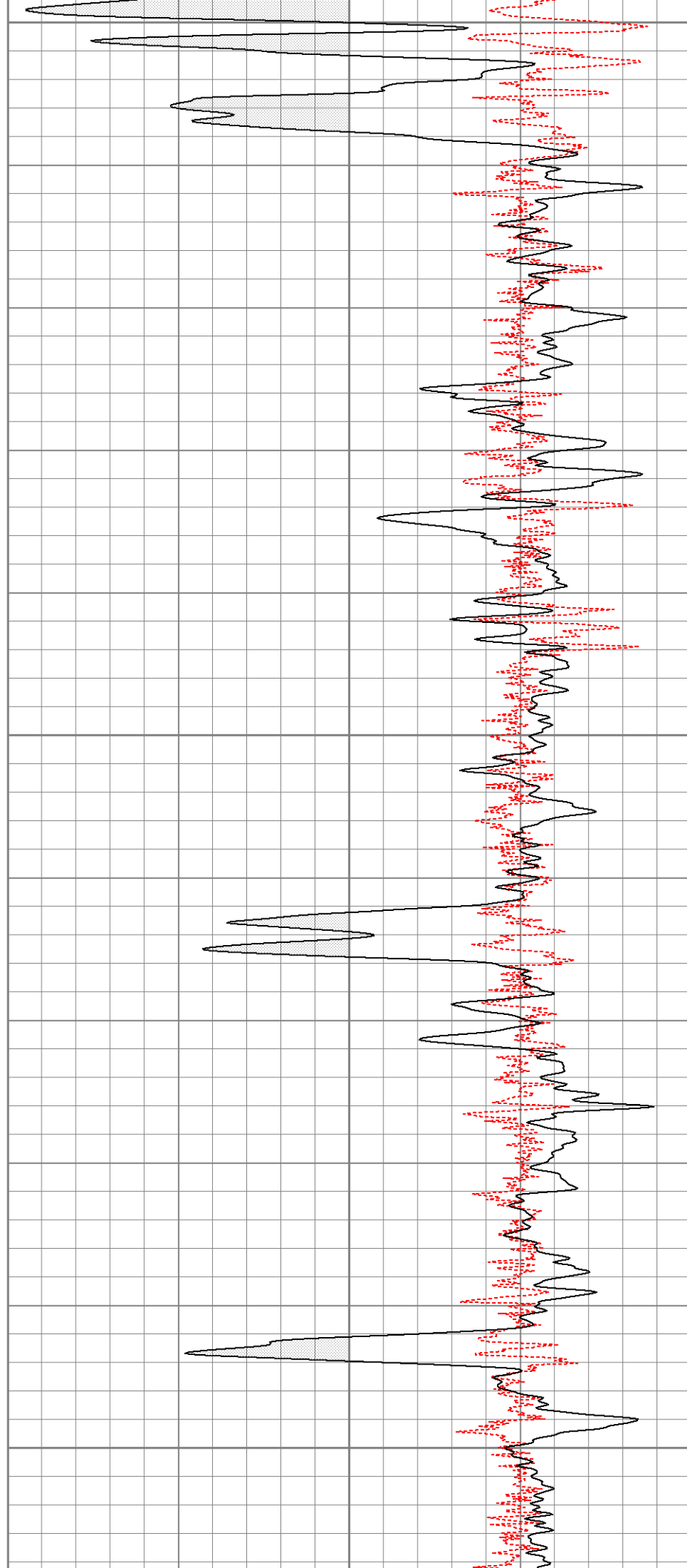


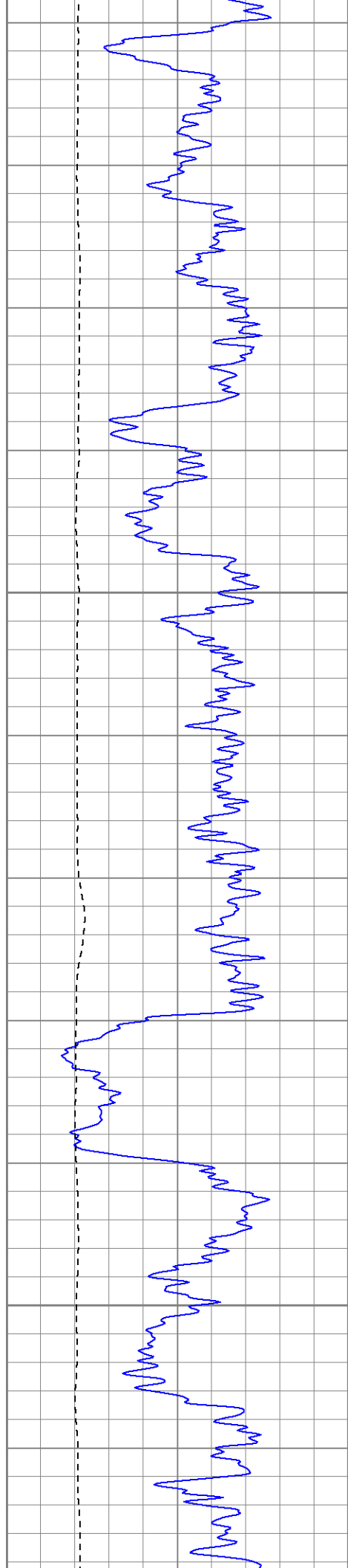


1650

1700

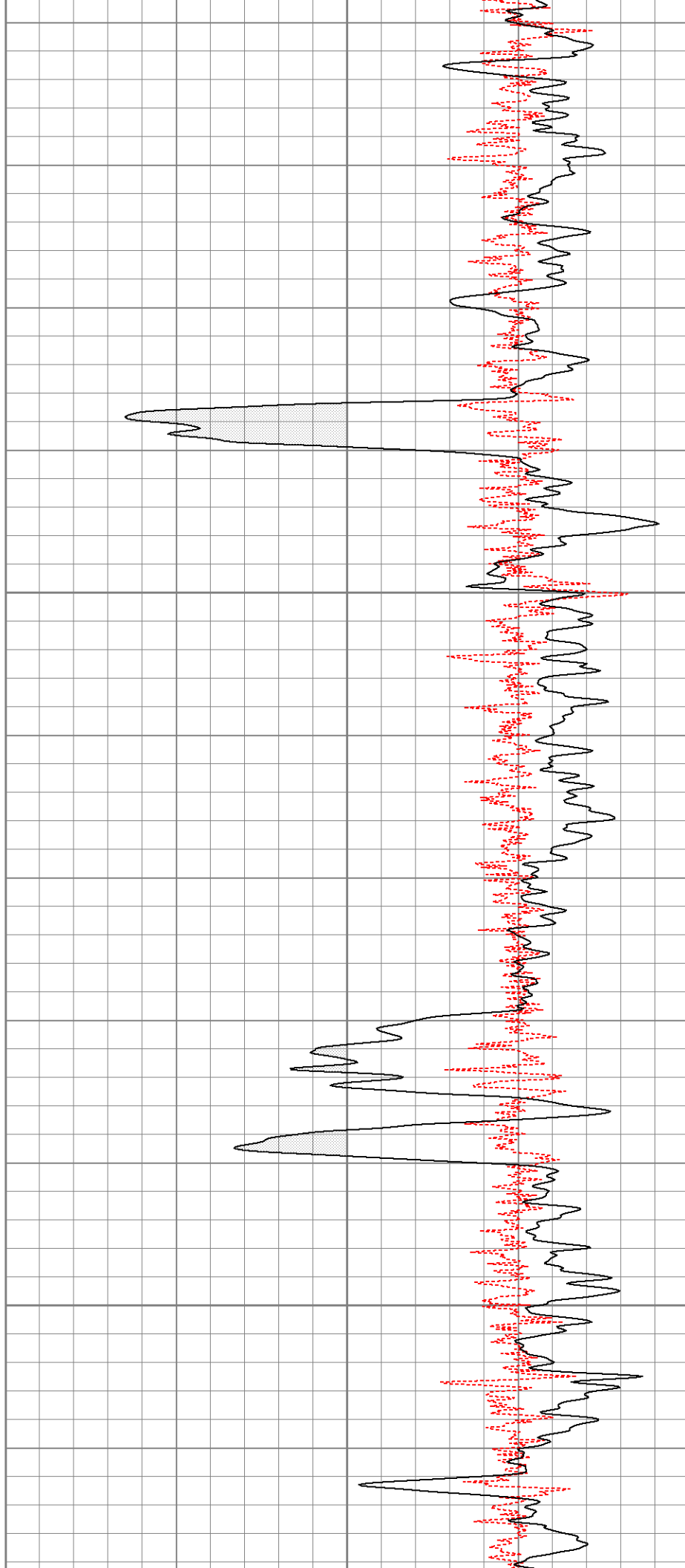
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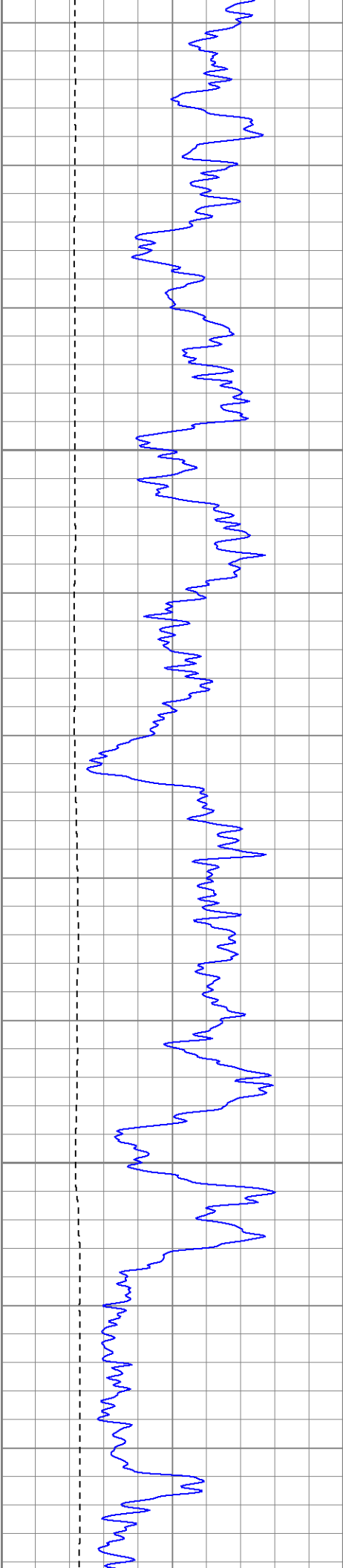




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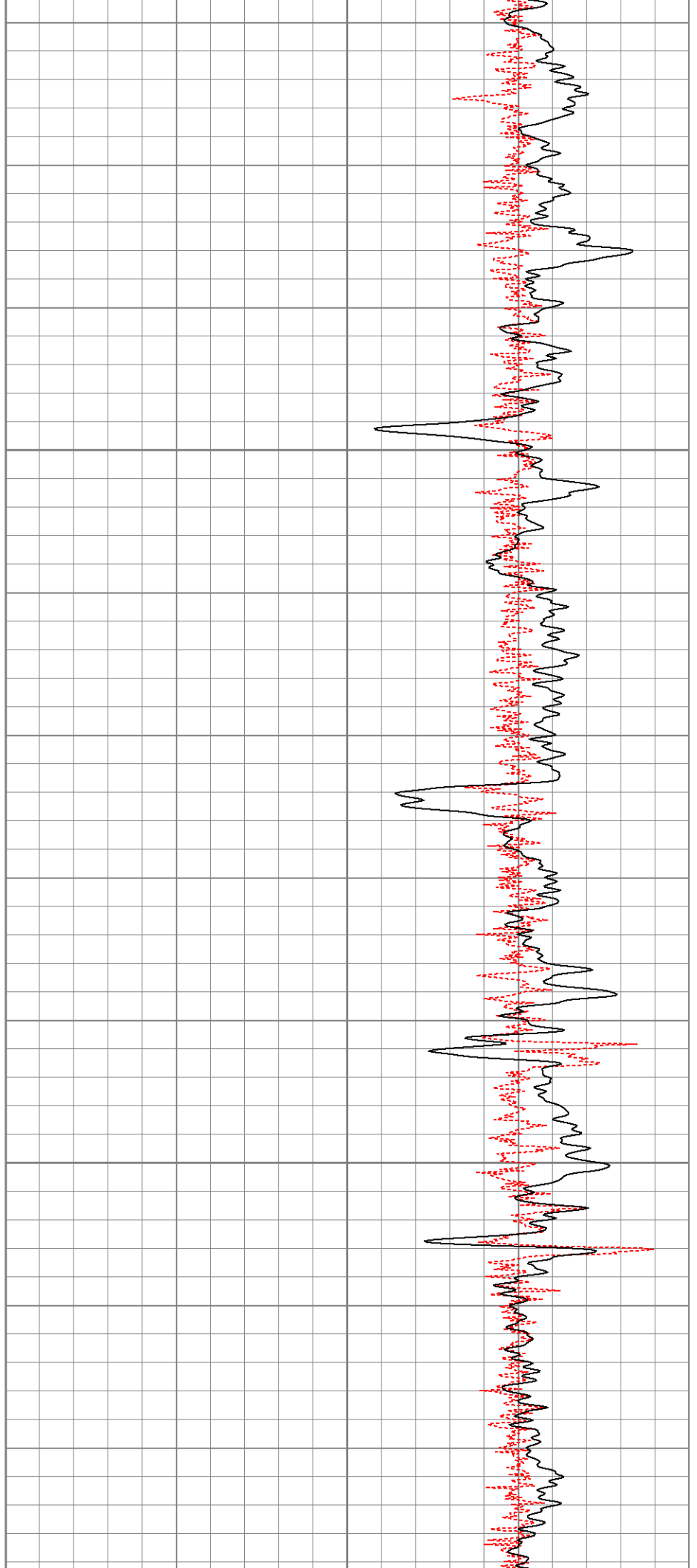
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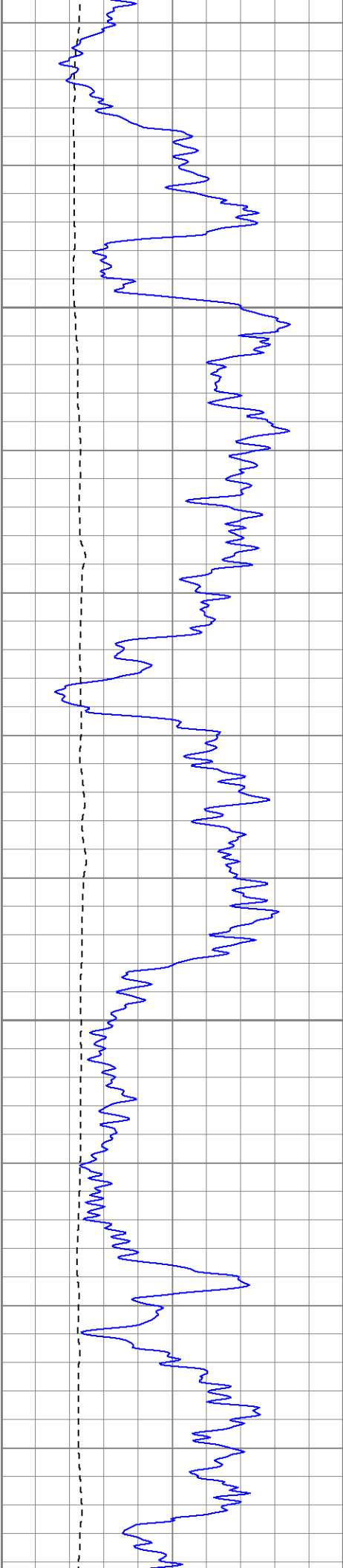




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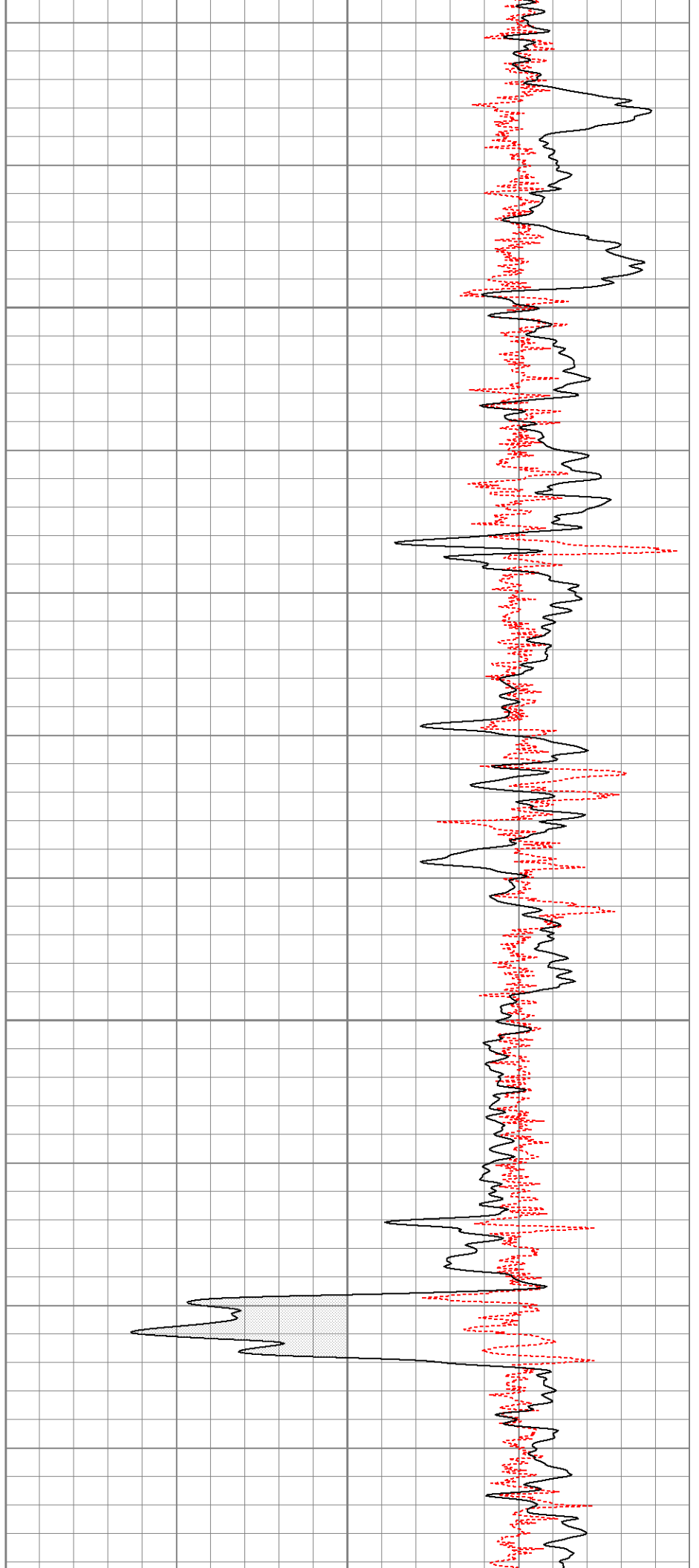
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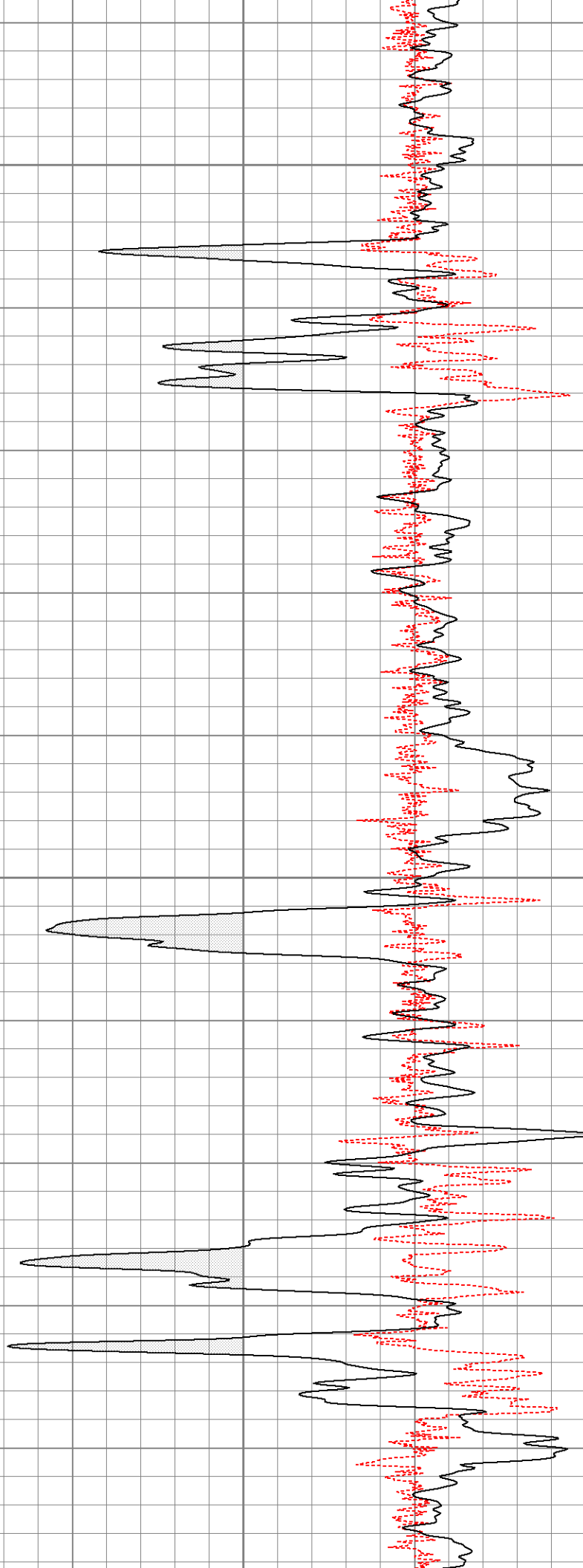
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2050



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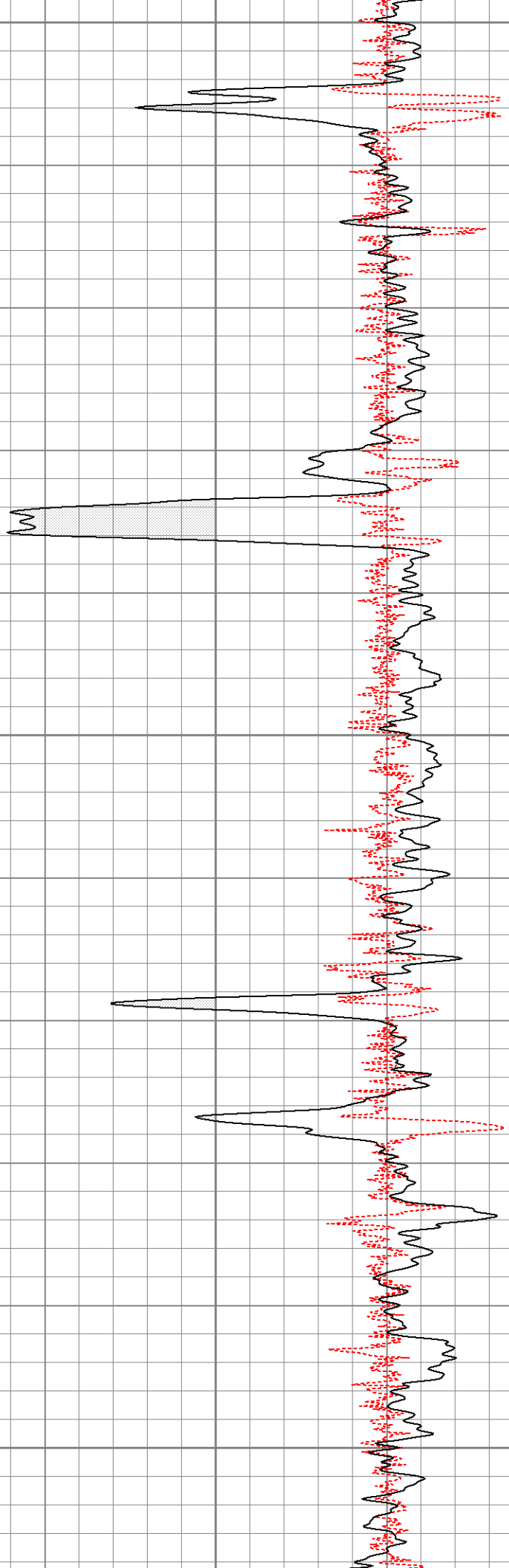
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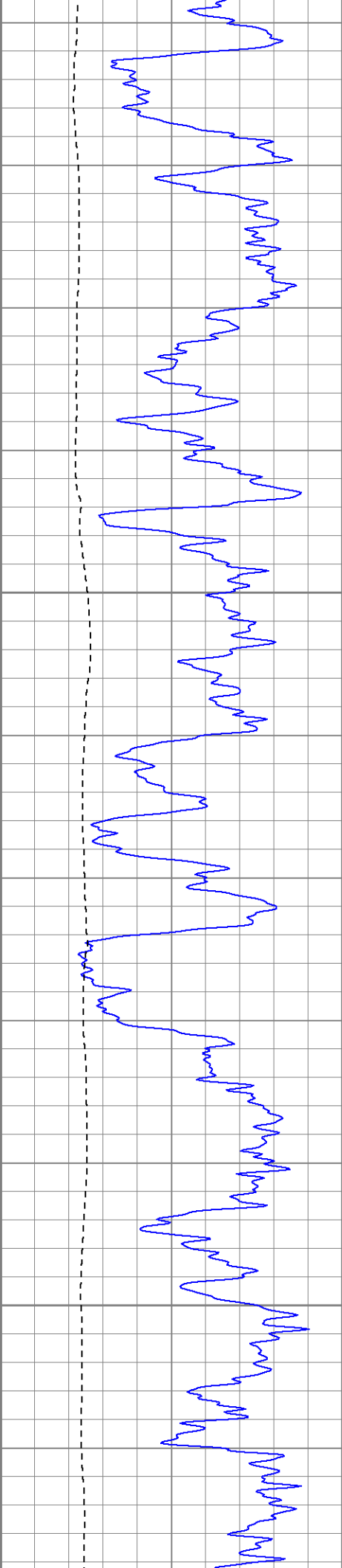


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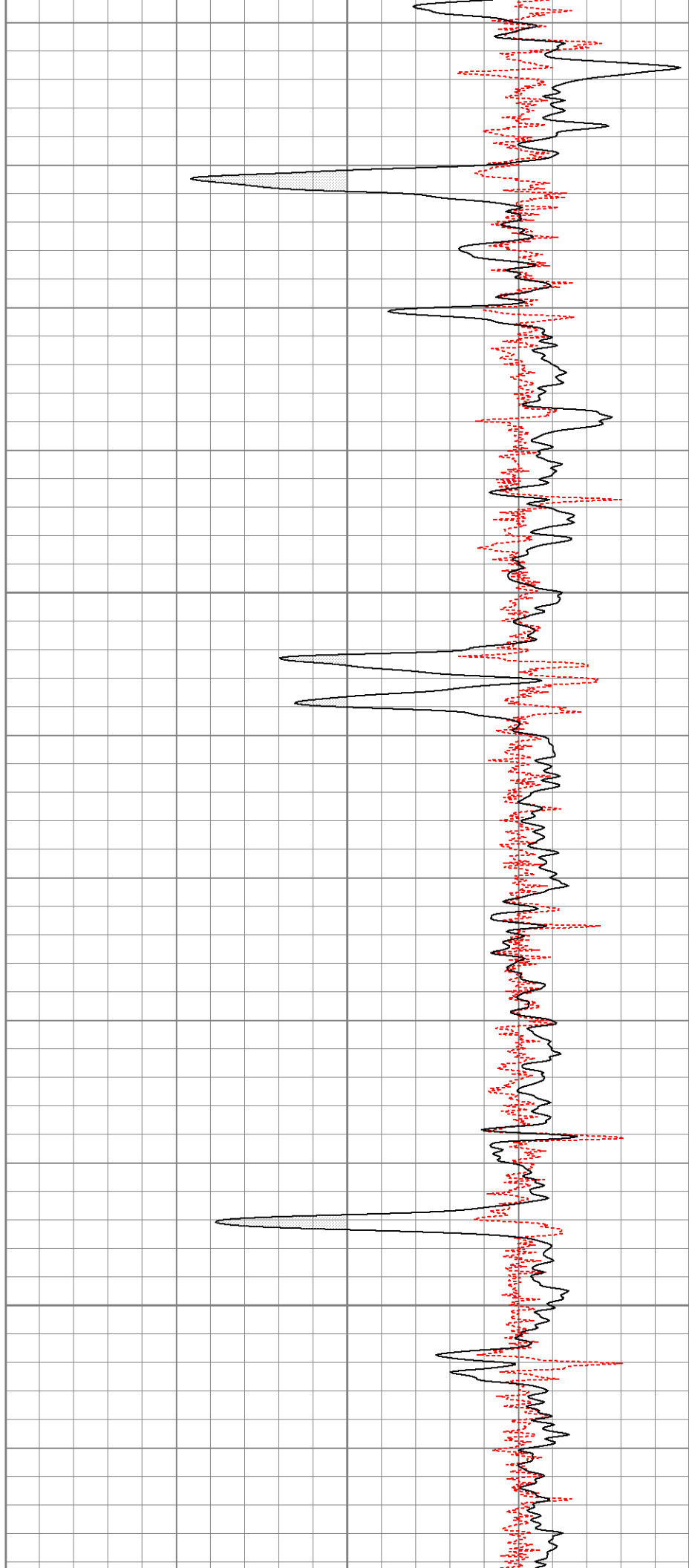
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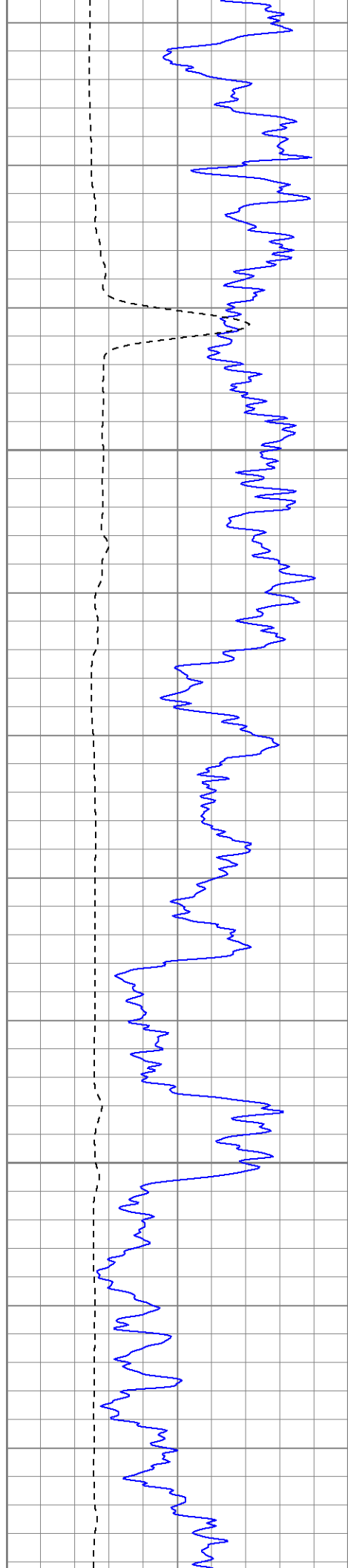




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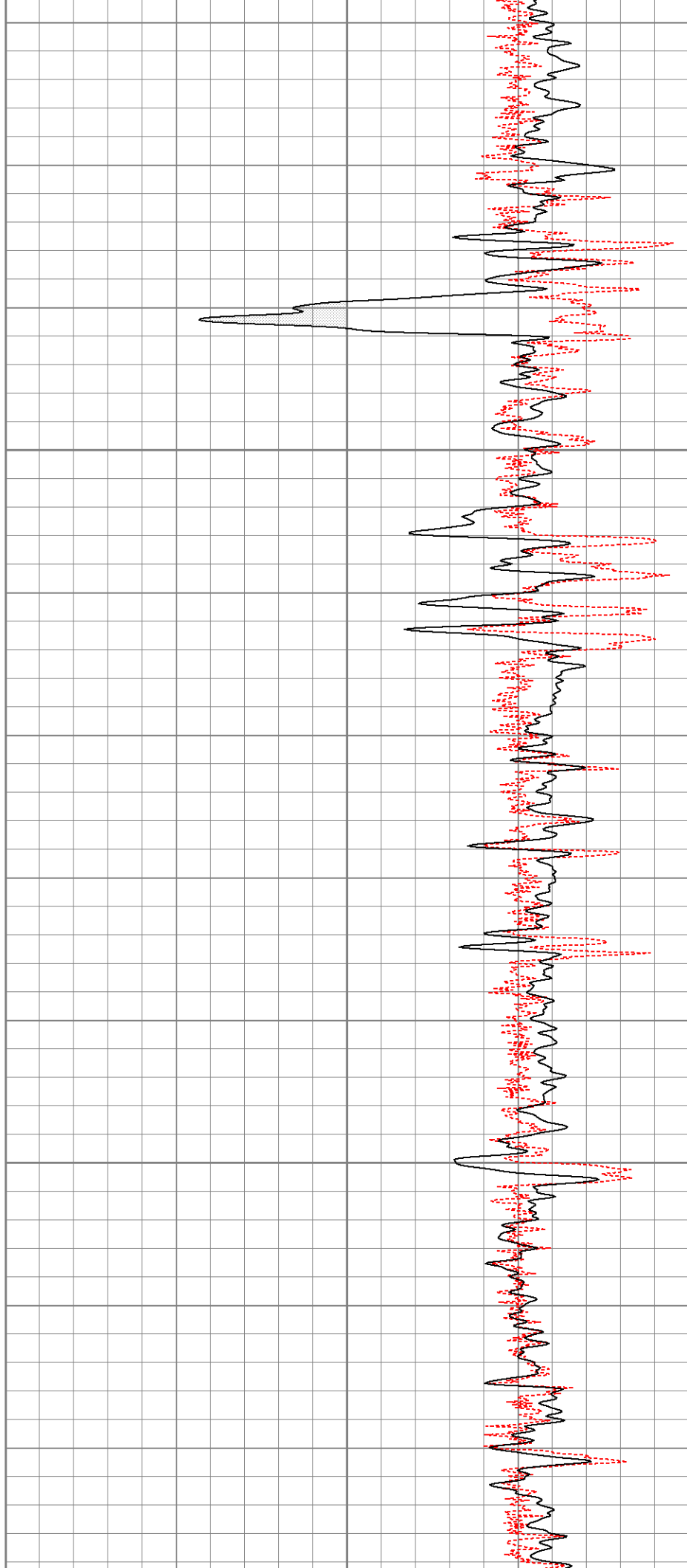
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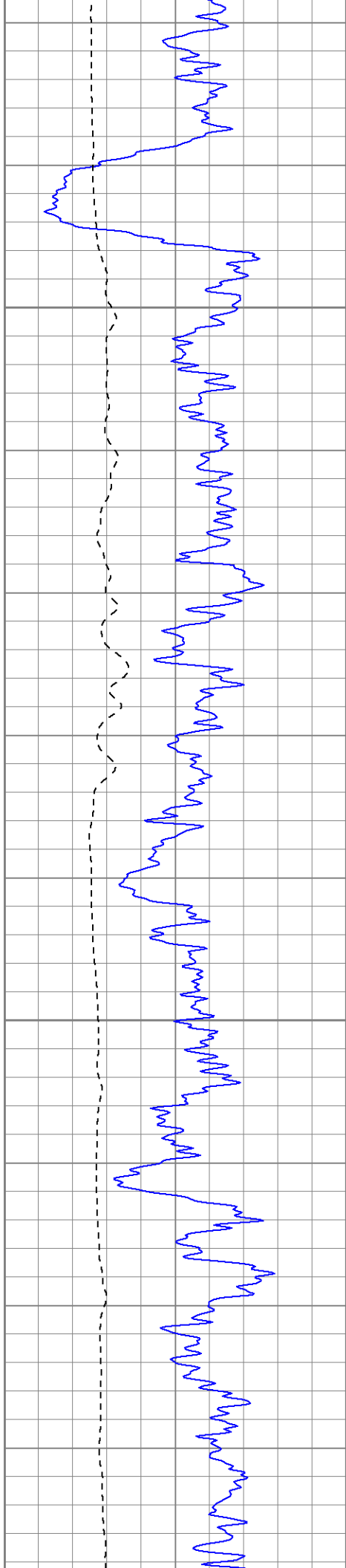




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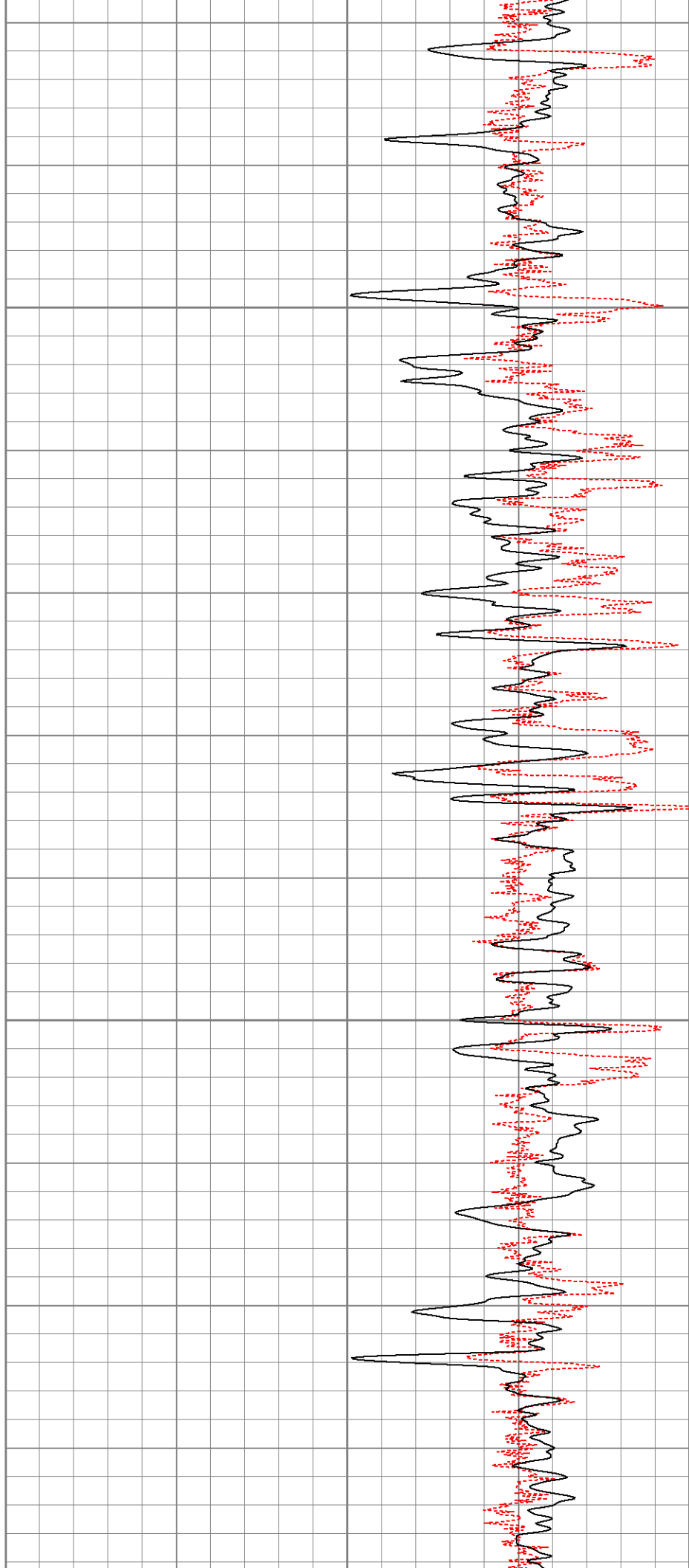
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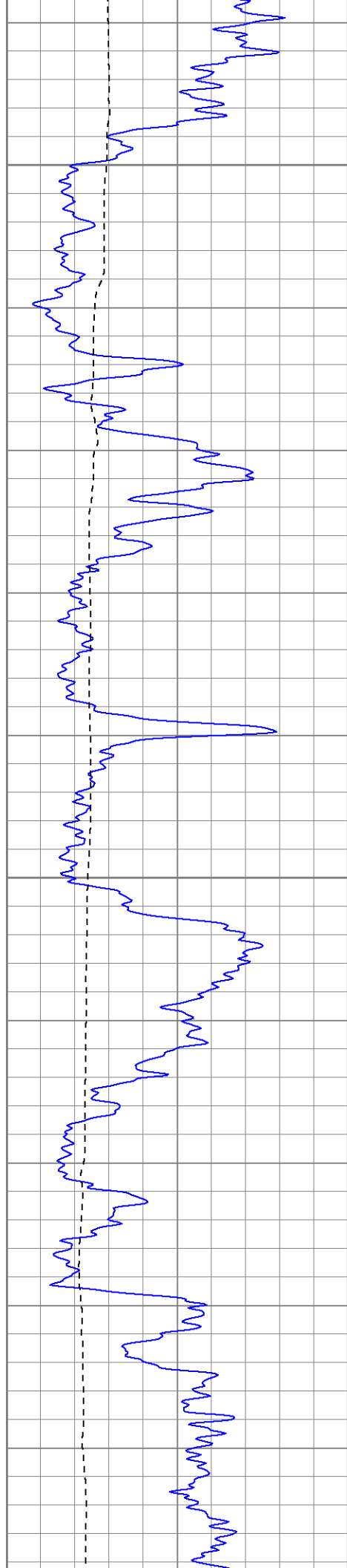




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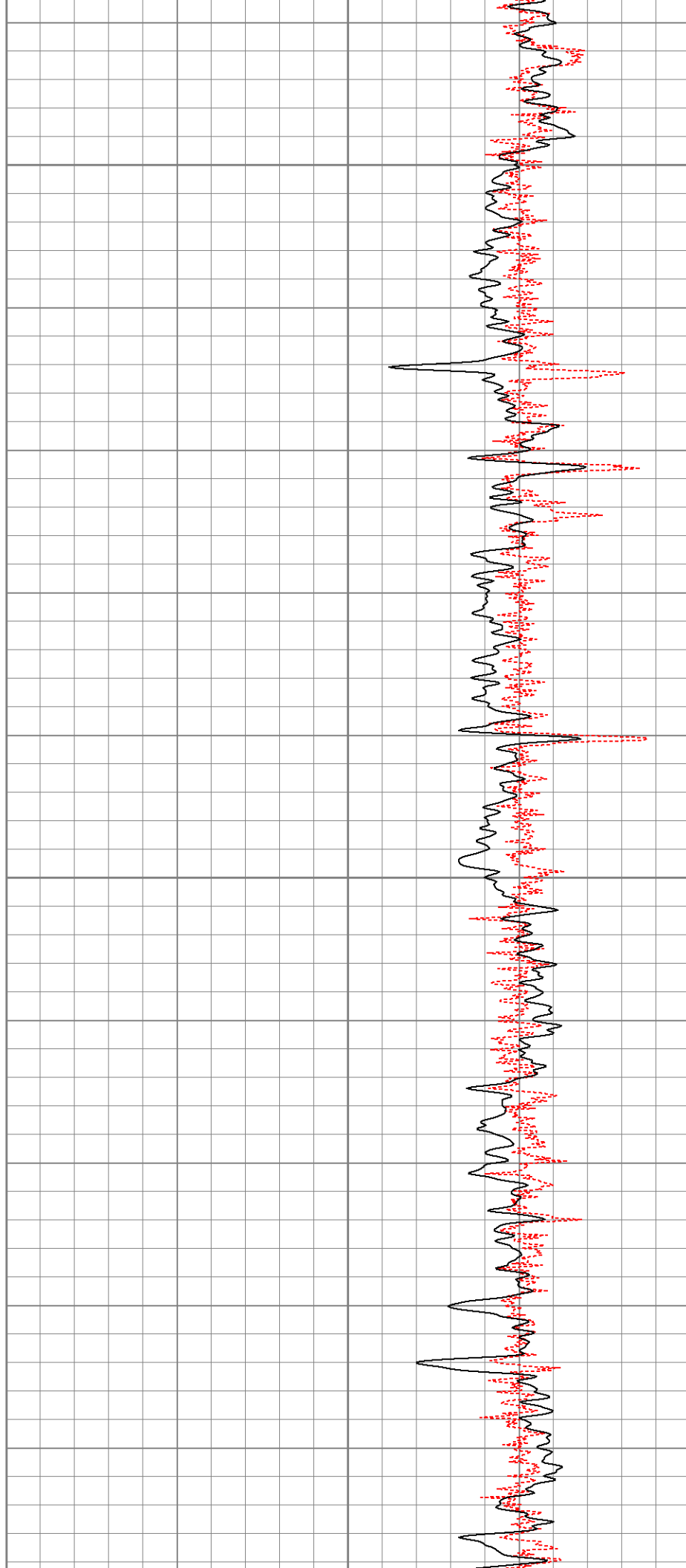
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2650

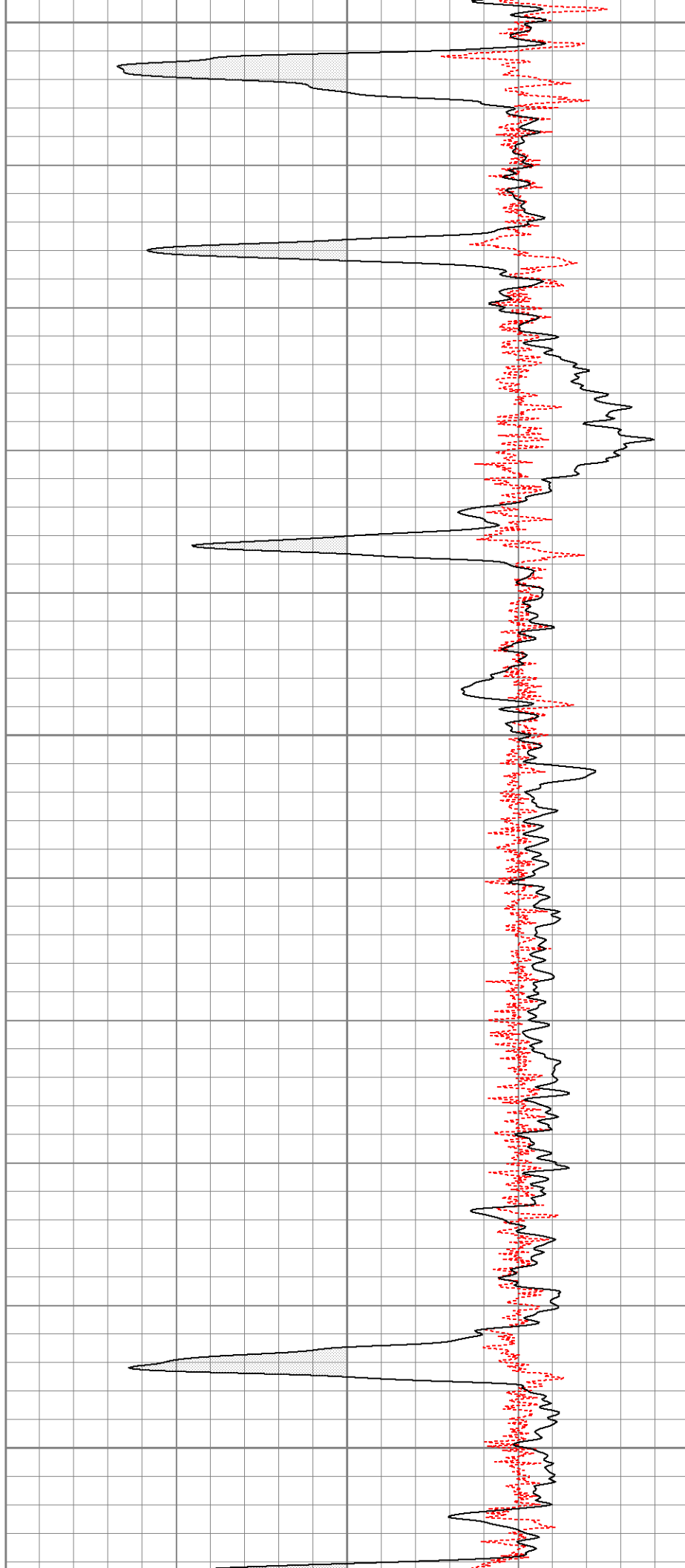
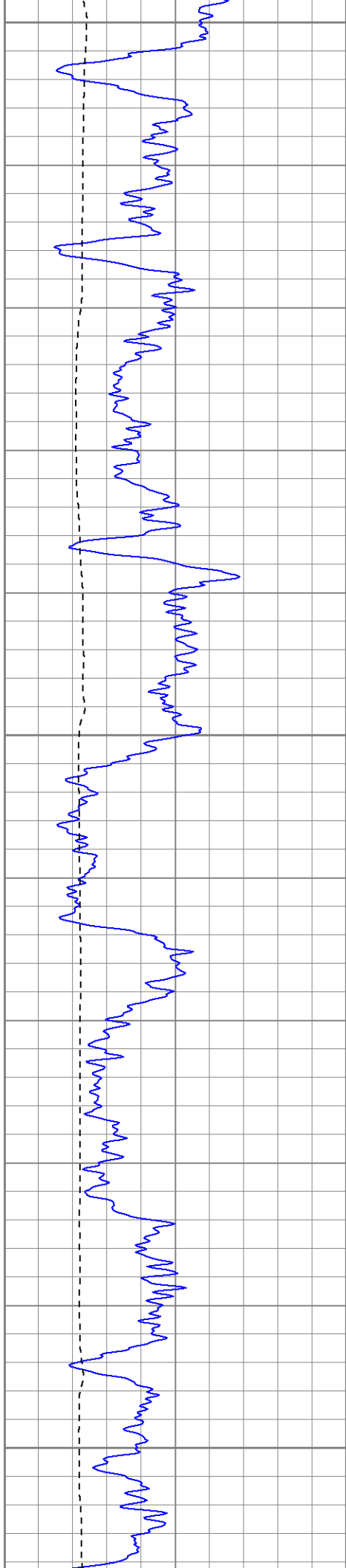
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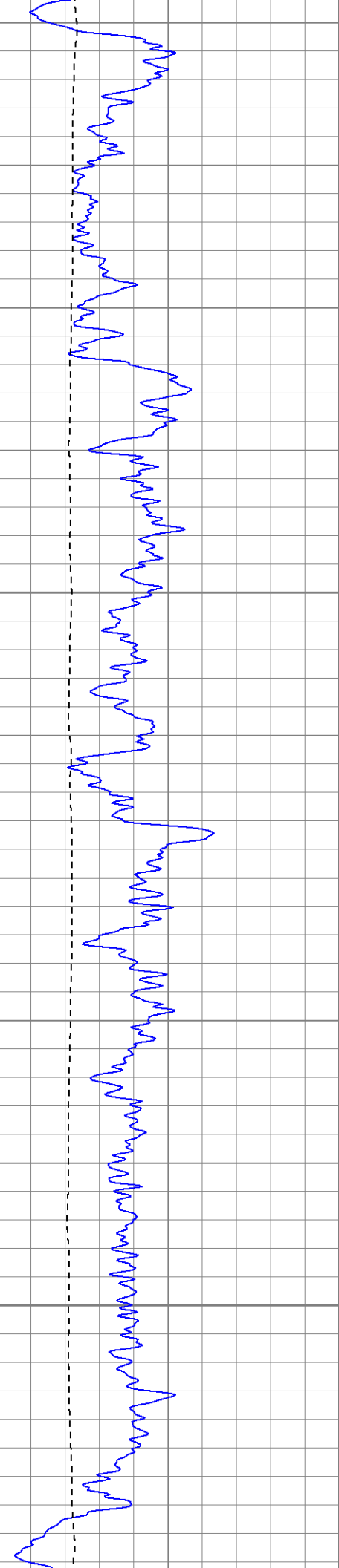


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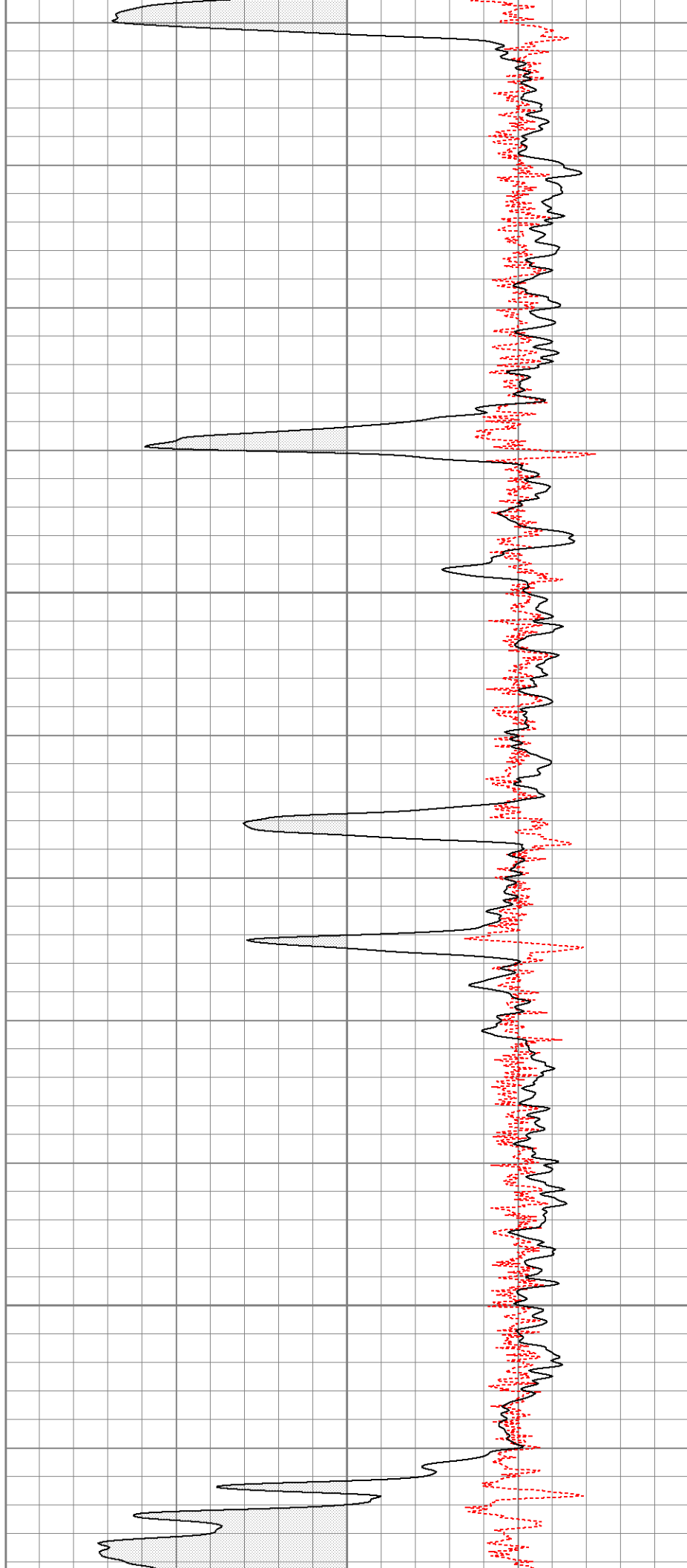
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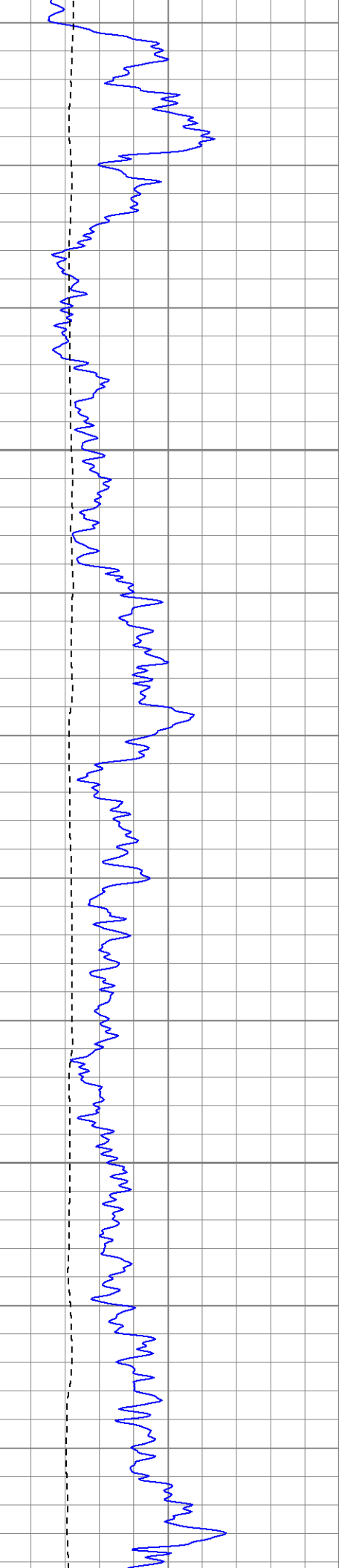




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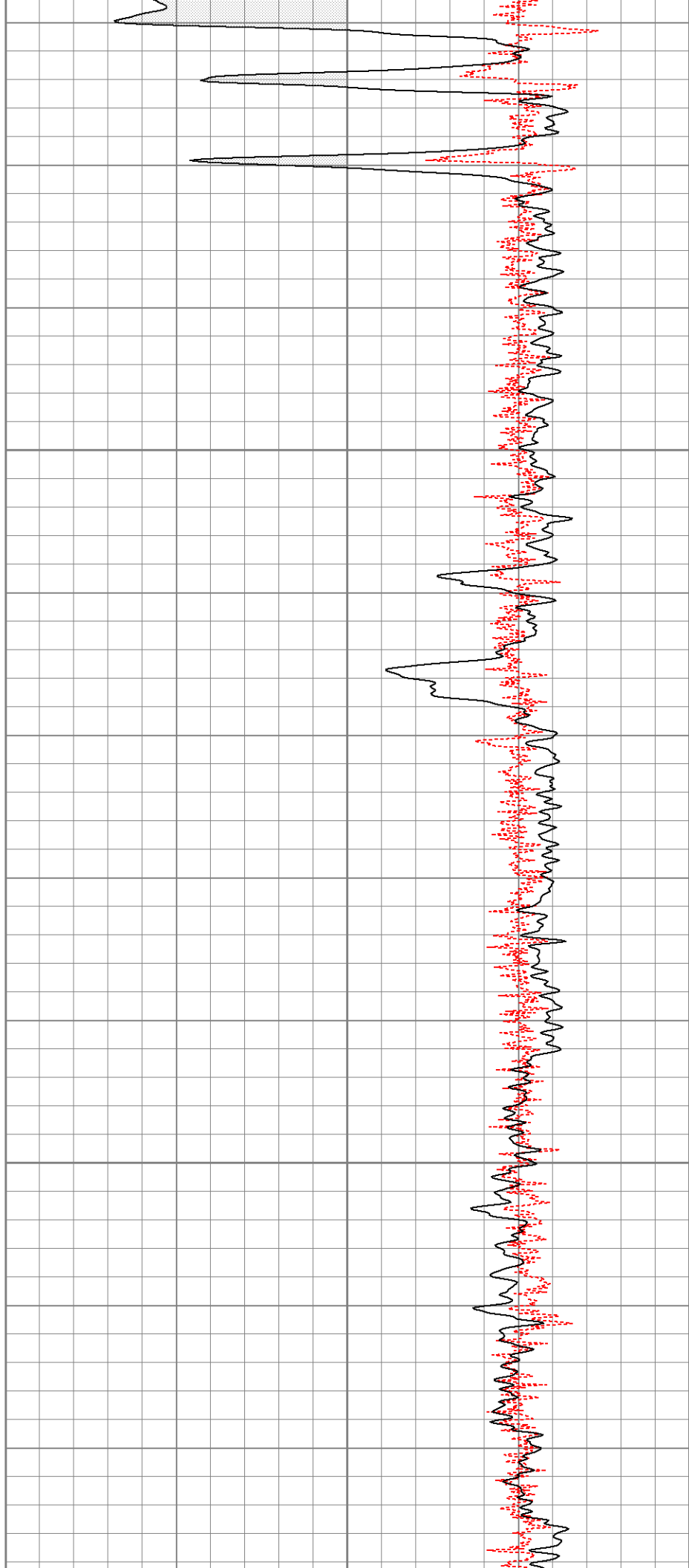
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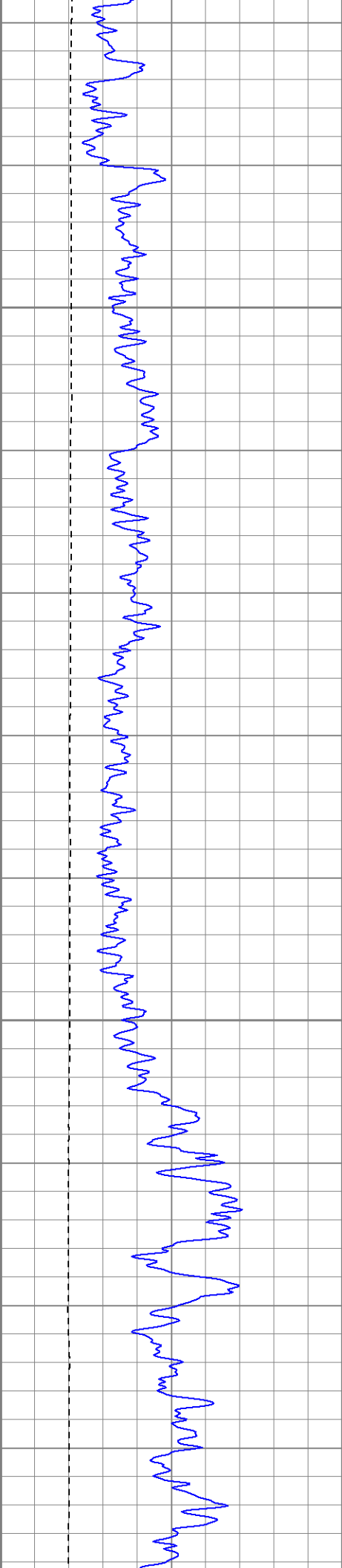




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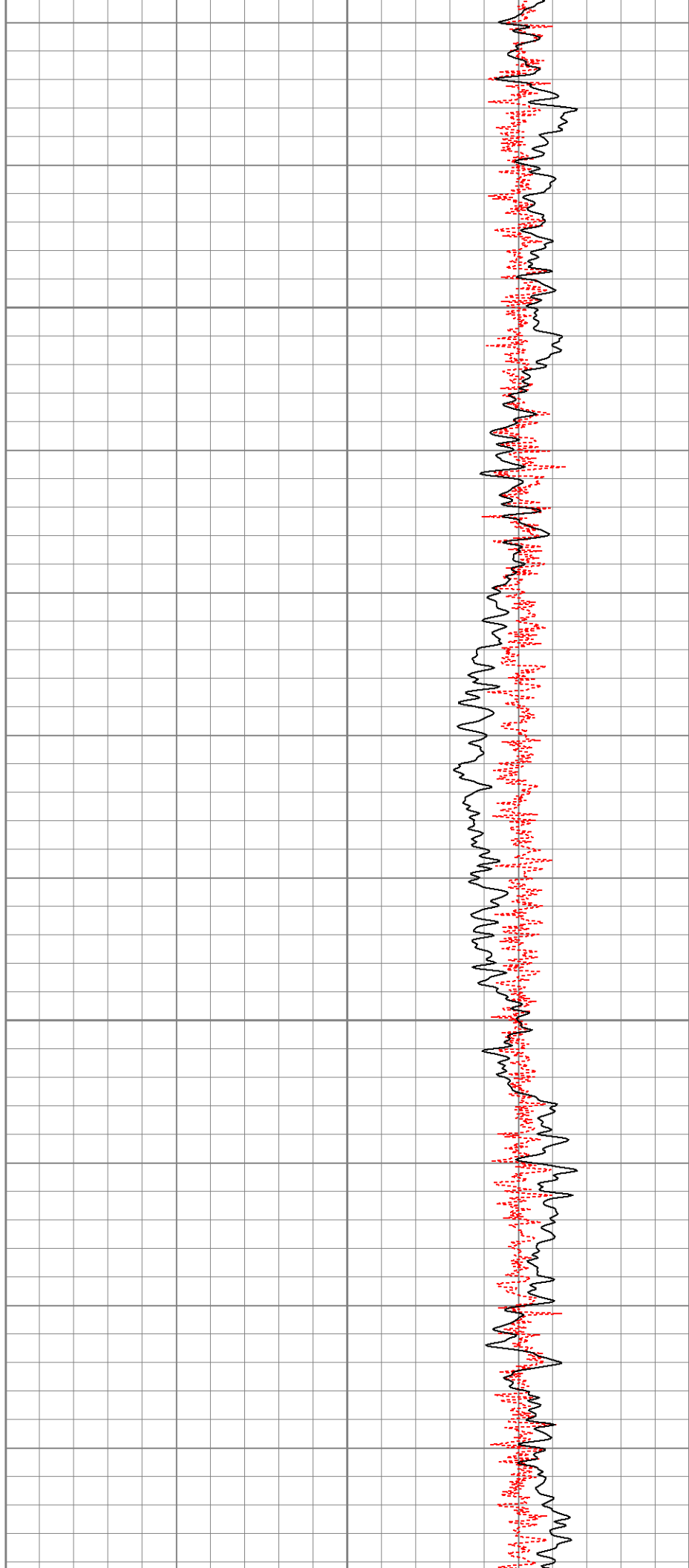
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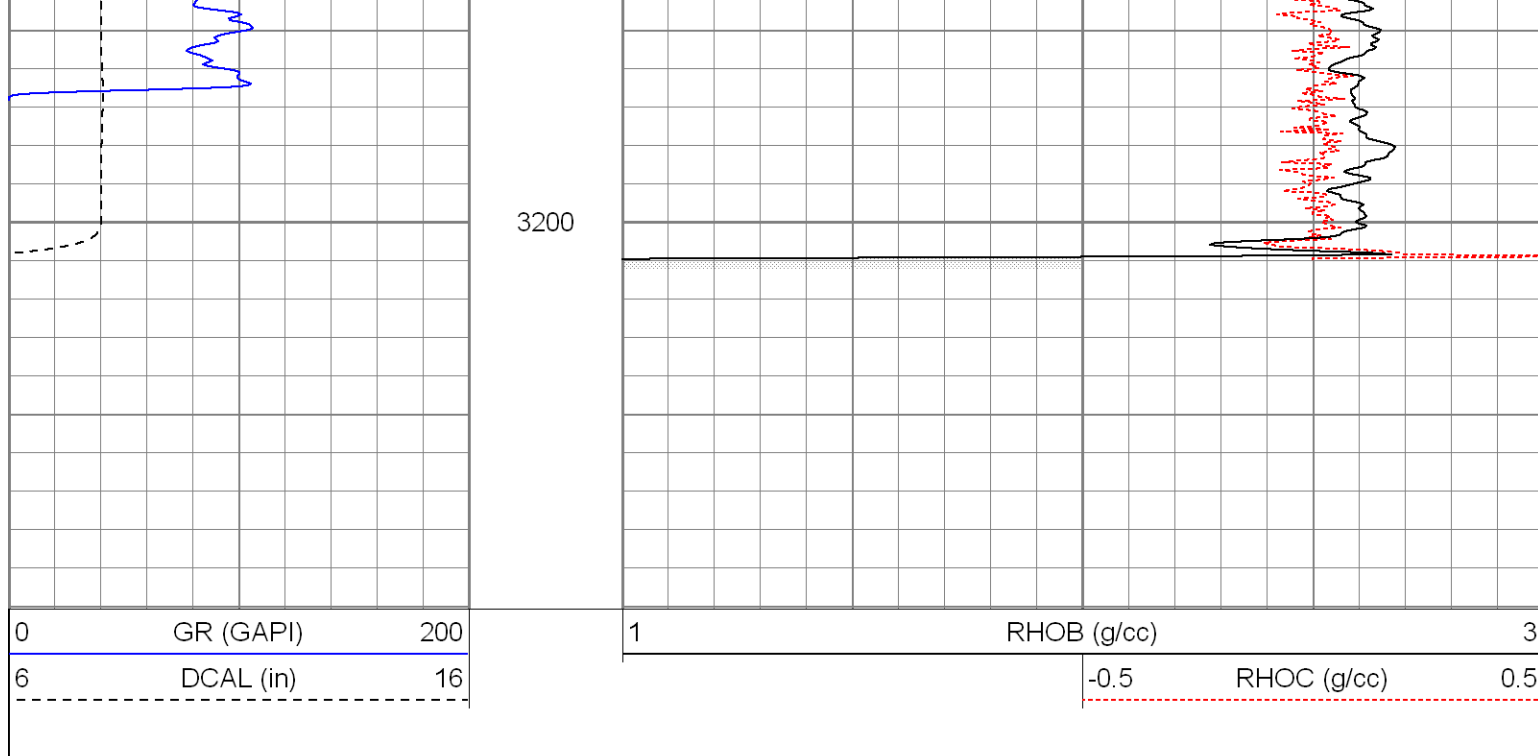




3100

3150





Calibration Report

Database File: redbuddi.db
 Dataset Pathname: pass2
 Dataset Creation: Wed Dec 02 07:44:24 2009 by Log Open-Cased 071220

Induction Tool Calibration Report

Serial Number: 121
 Tool Model: GL121
 Downhole Cal Performed: Tue May 19 08:21:24 2009
 Surface Cal Performed: Tue May 19 08:21:24 2009
 After Survey Verification Performed:

Surface Calibration:	Air	Loop	
Conductivity Reference:	0.000	450.000	mmho
Conductivity Reading:	0.005	0.626	V
Internal Reference:	Zero	Cal	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	0.009	0.631	V

Downhole Calibration:	Internal Zero	Internal Cal	
Conductivity Reference:	3.282	453.999	mmho
Conductivity Reading:	0.000	0.000	V
Short Normal Reference:	0.000	17.000	Ohm-m
Short Normal Reading:	0.000	0.192	V

Results:	Gain	Offset
Loop Conductivity:	724.756	-3.402
Downhole Correction:	1.000	0.000
Short Normal Resistivity:	70.751	-2.800

Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT
 Source / Verifier: /
 Master Calibration Performed: Wed May 13 13:40:02 2009

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:	2001				
Tool Model:	OH				
Performed:	Wed May 13 14:02:54 2009				
Calibrator Value:	1.0		GAPI		
Background Reading:	0.0		cps		
Calibrator Reading:	1.0		cps		
Sensitivity:	0.2500		GAPI/cps		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	26.85		None	0.75	1.50	5.00
			GR-OH (2001) 2001	3.56	3.25	40.00
			CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	18.31					
DCAL	18.02					
SSD	17.77					
HEADVOLT	16.00					
DIC	6.89		IEL-GL121 (121)	16.00	4.00	178.00

