



SUPERIOR
WELL SERVICES
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Hill Ranch 36-10-67
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09533 00

2113' FSL & 1547' FEL

SEC 36 TWP 34S RGE 67W

DIL

Permanent Datum Ground Level Elevation 7826'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 7826'

Date	4-28-08		
Run Number	Two		
Depth Driller	2430'		
Depth Logger	2420'		
Bottom Logged Interval	2418'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 468'		
Casing Logger	468'		
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 P.M.		
Time Logger on Bottom	3:10 P.M.		
Maximum Recorded Temperature	118 DEG F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	J. Cappellucci		
Witnessed By	Mr. Don Johnson		

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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:
Lorencito to XTO hill, follow all the way to top, cross cattleguard,
take first left to location.

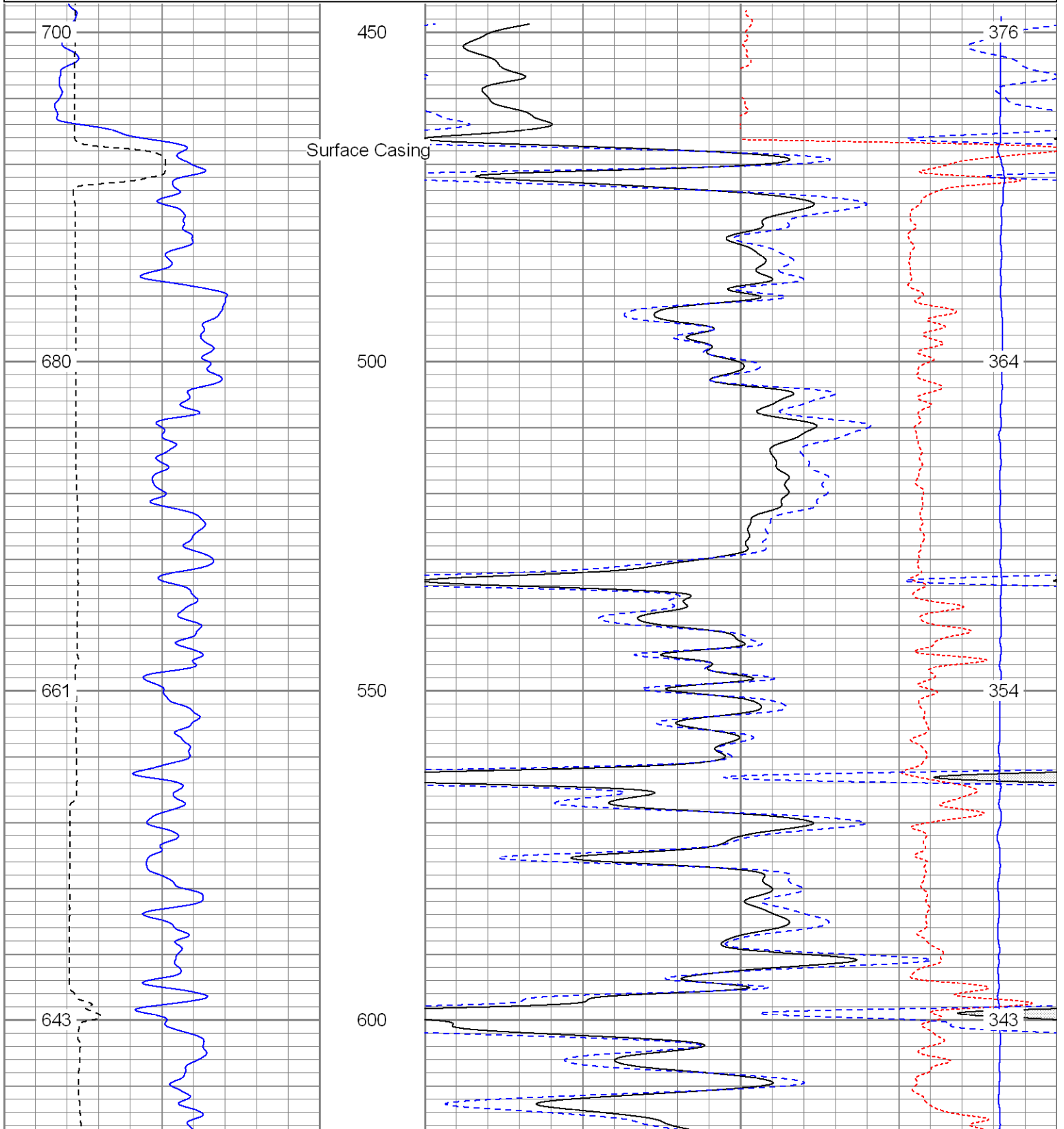


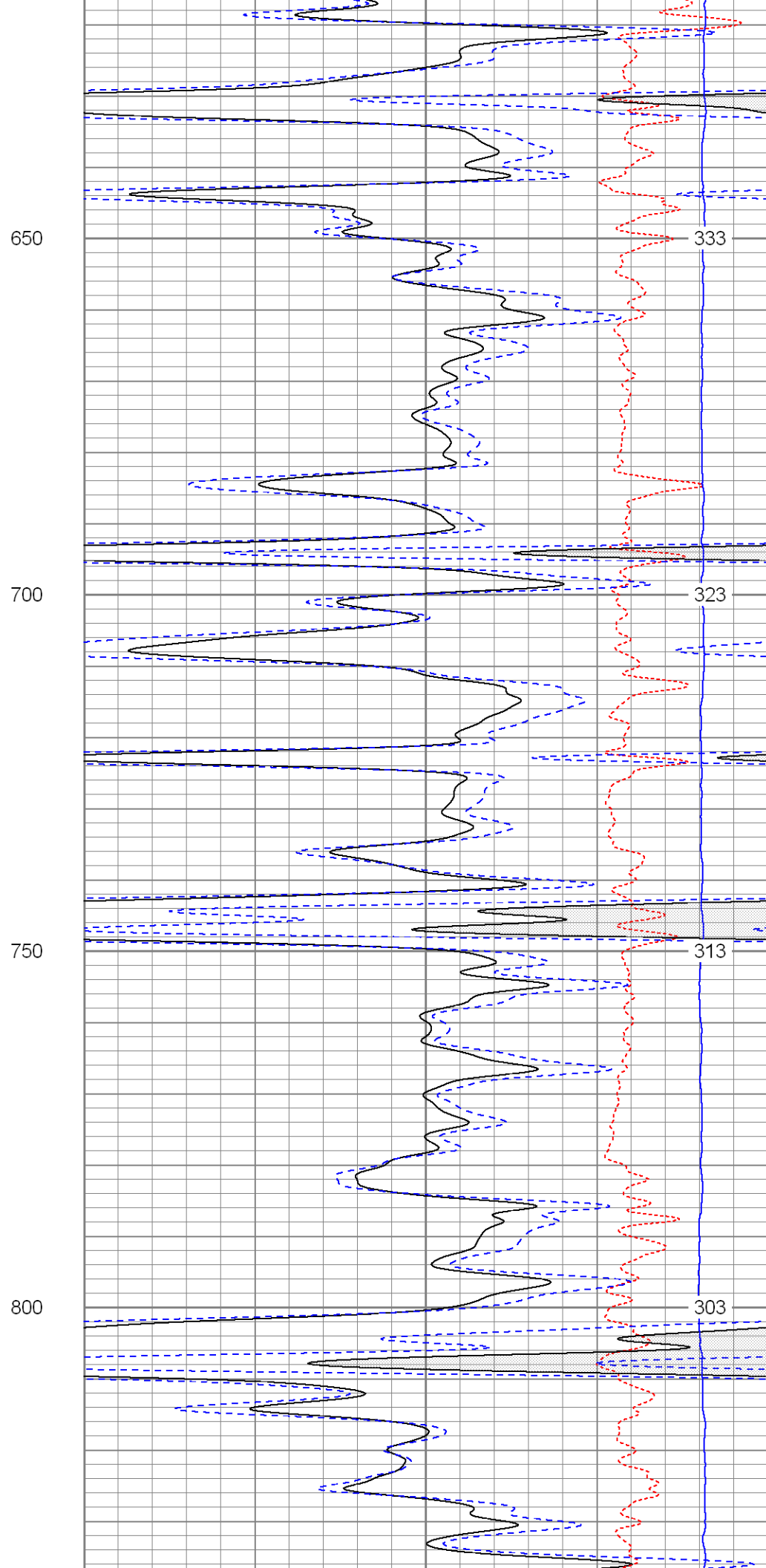
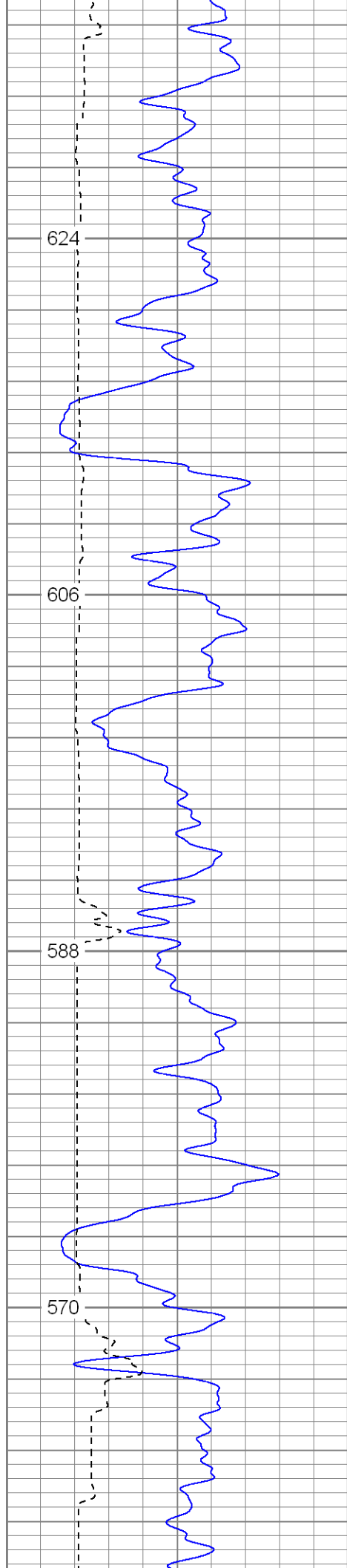
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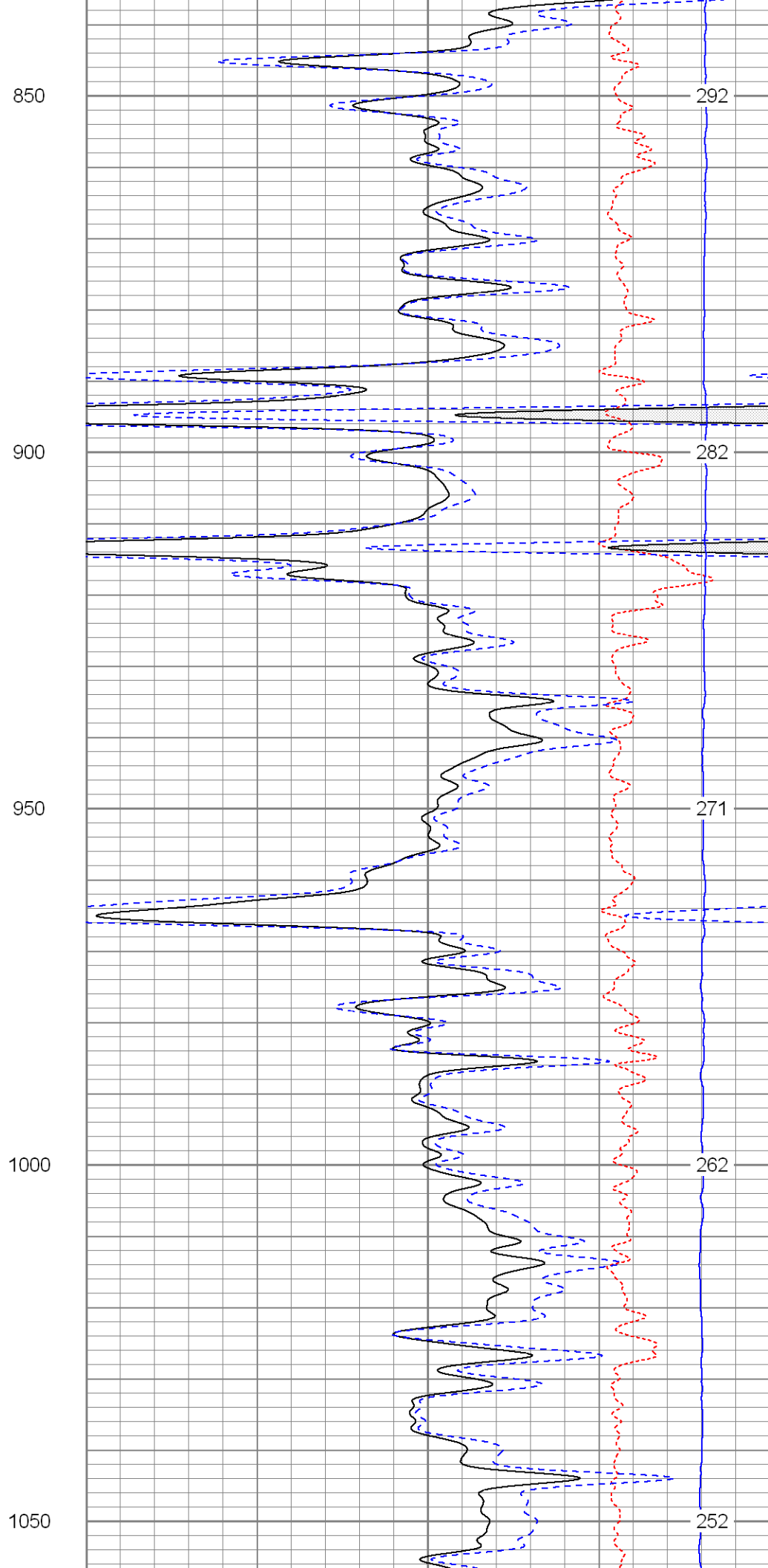
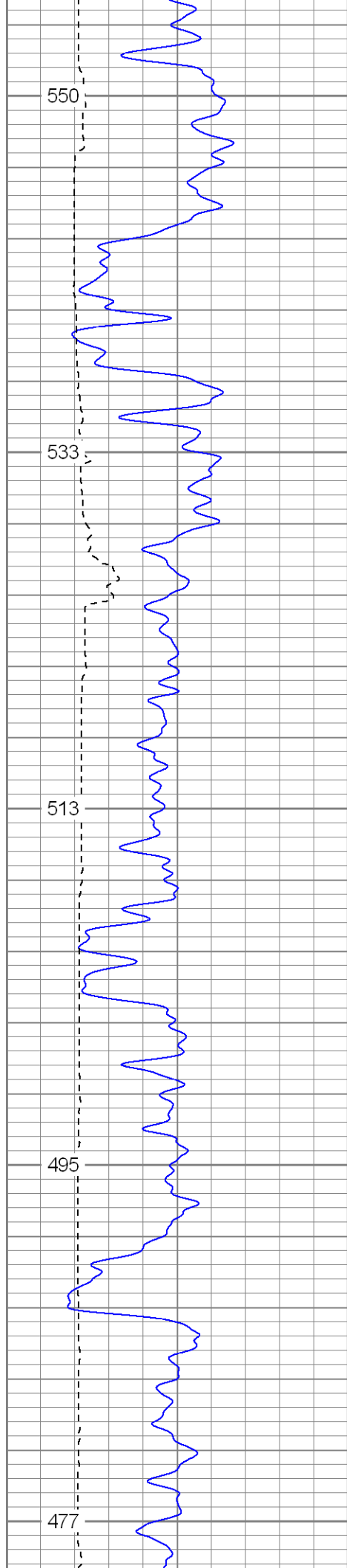
Main Pass

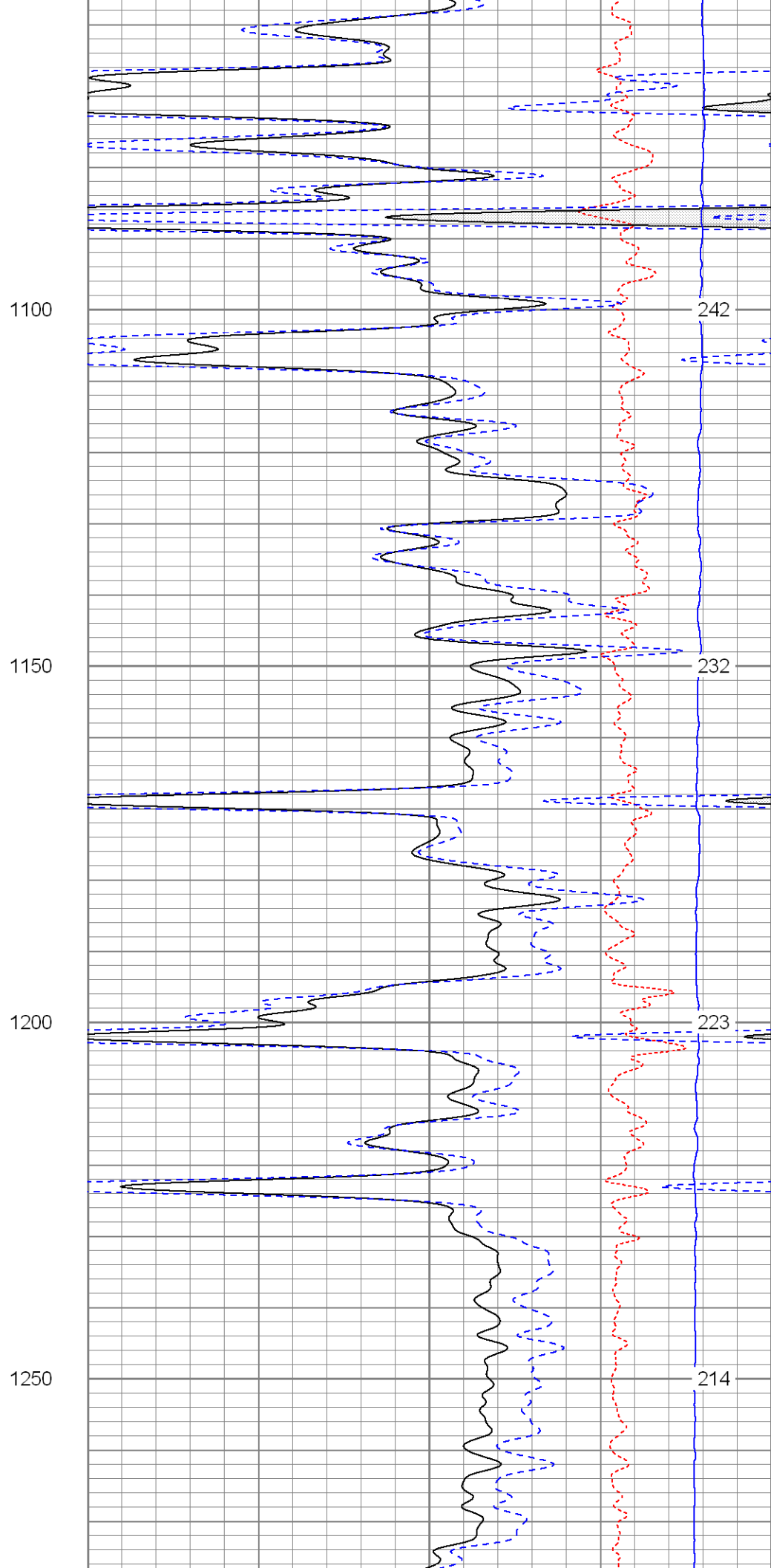
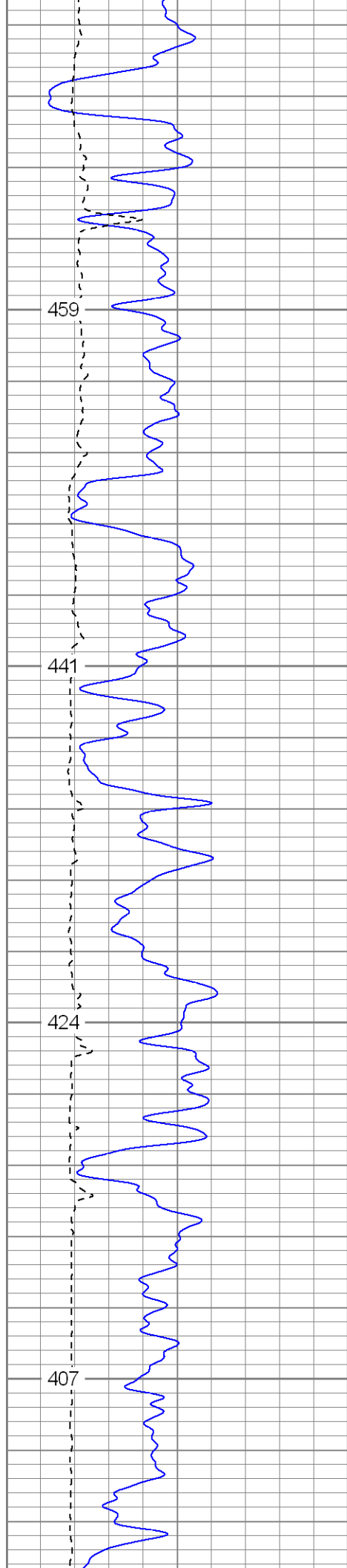
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Charted by: Depth in Feet scaled 1:240

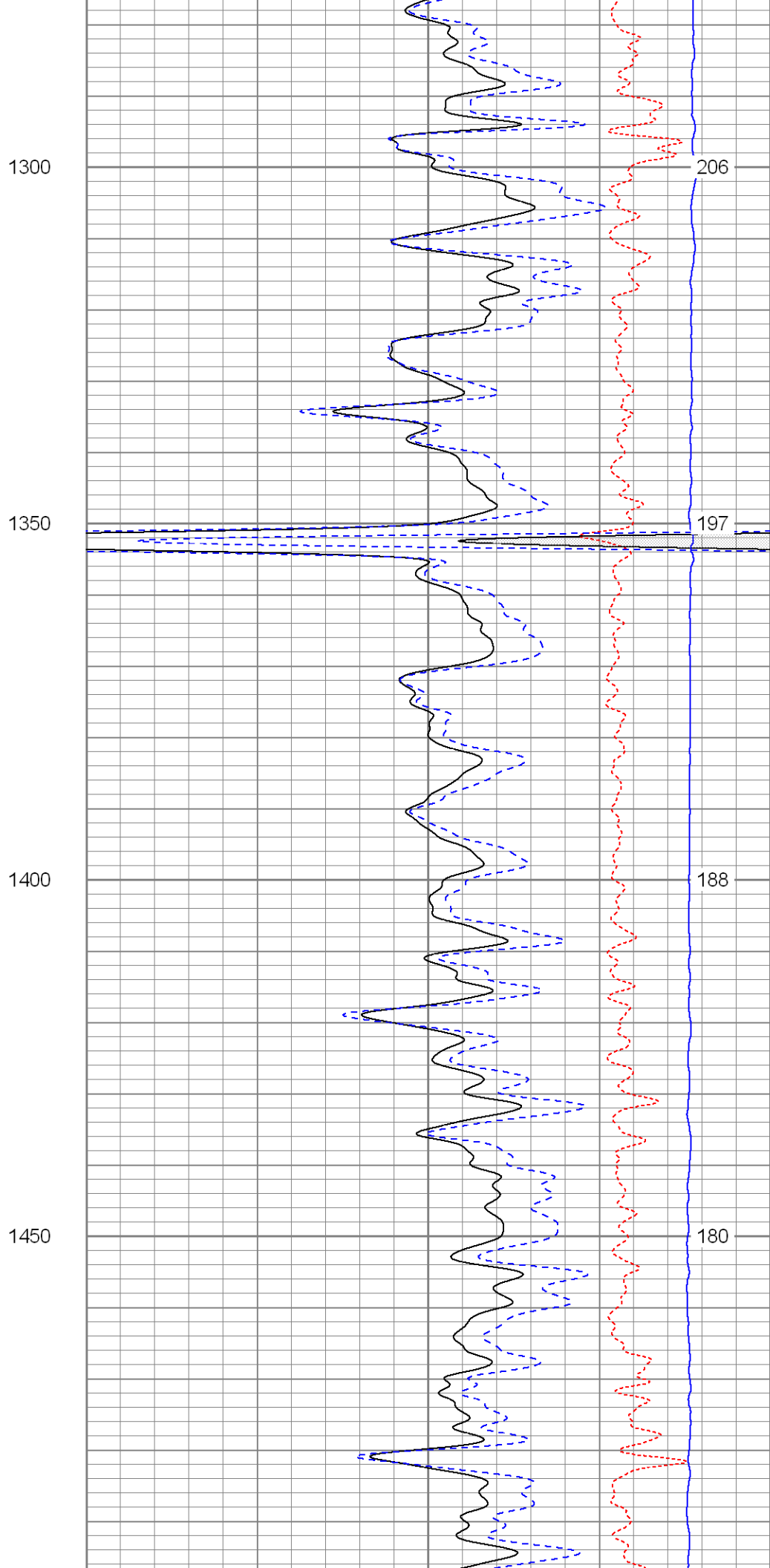
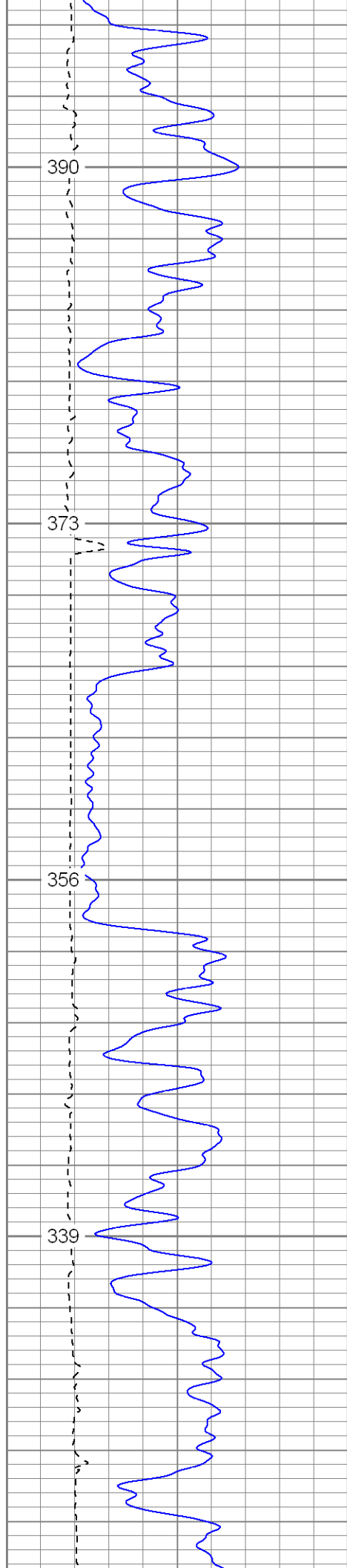
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6	DCAL (in)	16	1	RHOB (g/cc)		2
TBHV (ft3)			30	DPOR (pu)		-10
				-0.5	RHOC (g/cc)	0.5
				4000	LTEN (lb)	0
					ABHV (ft3)	

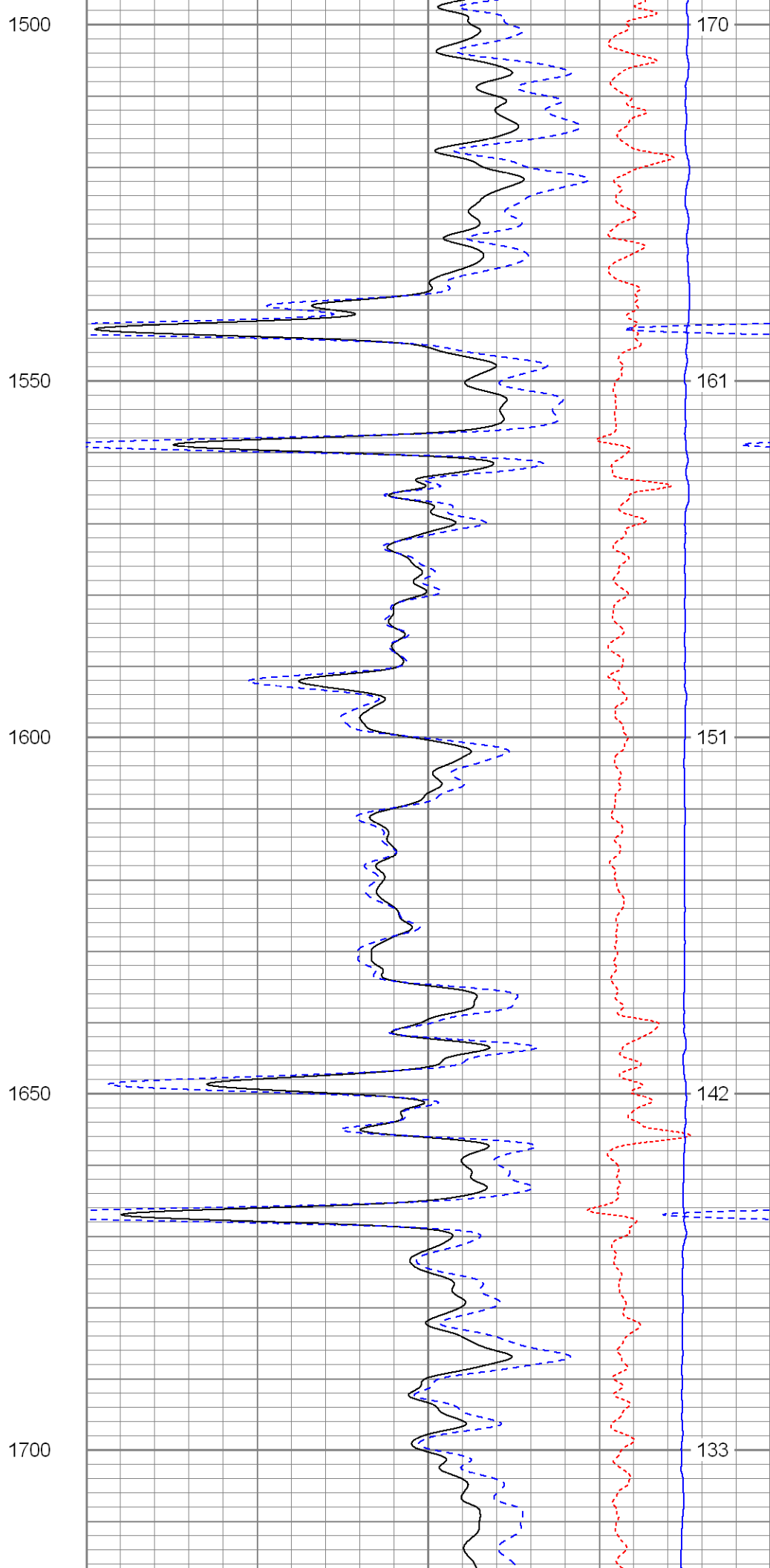
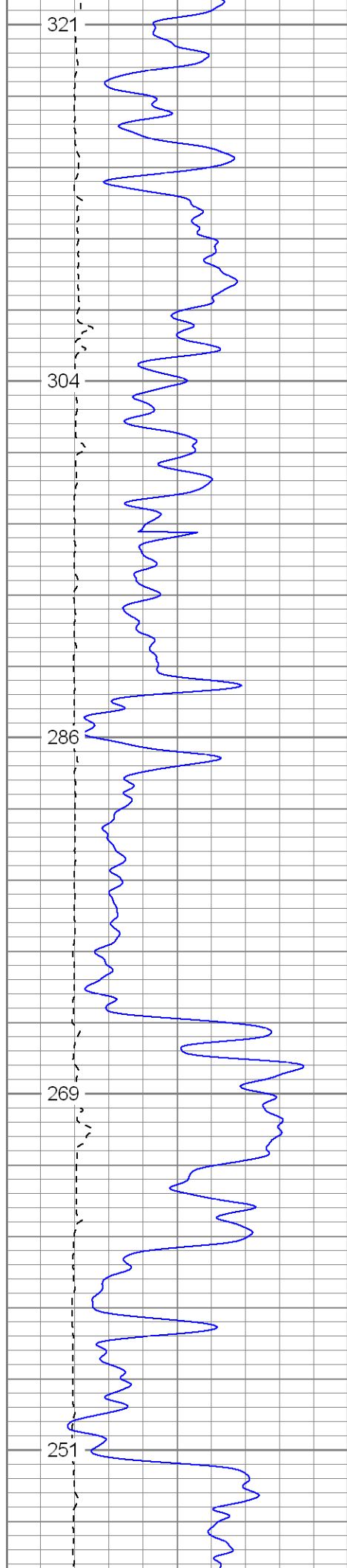


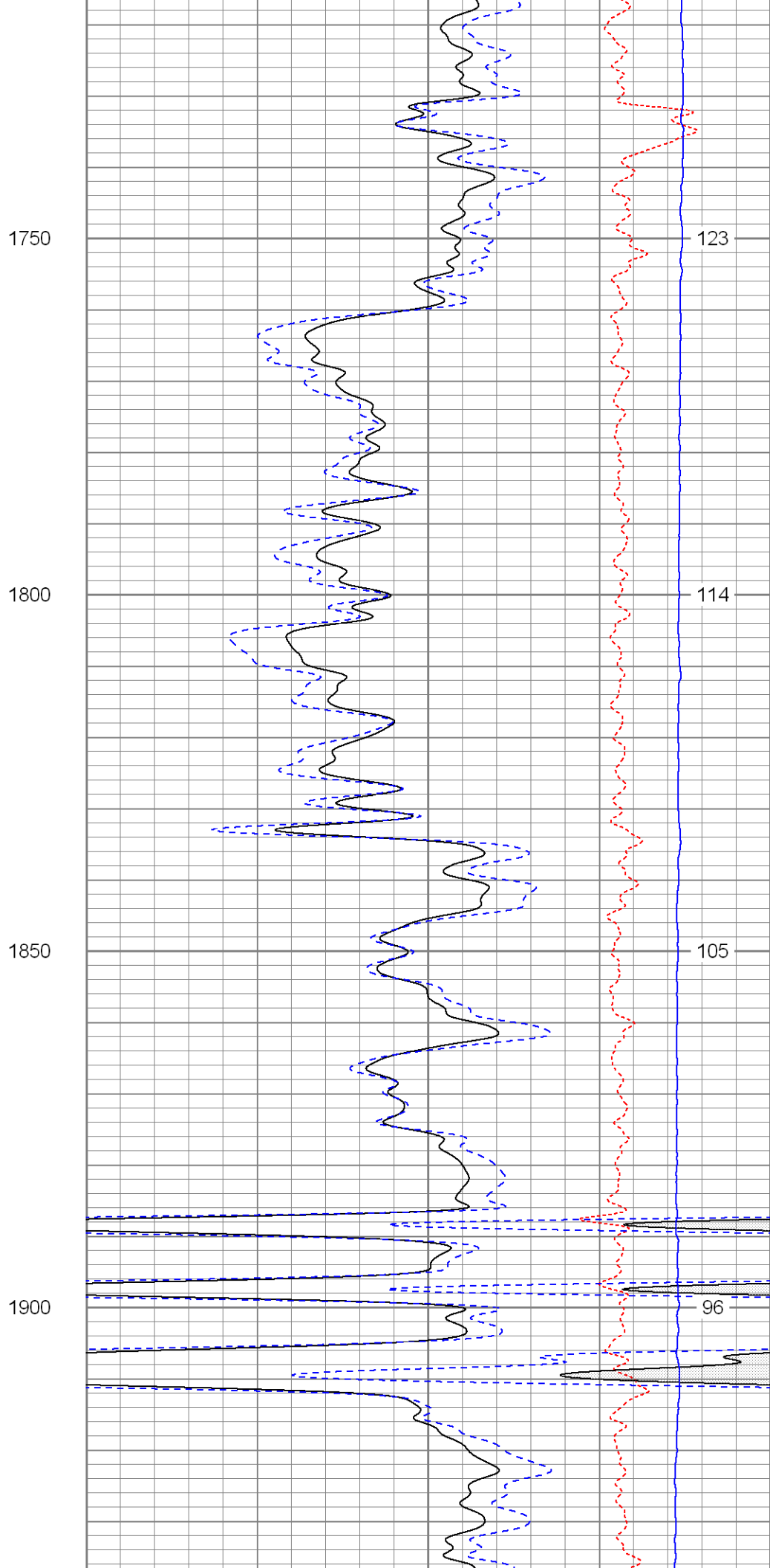
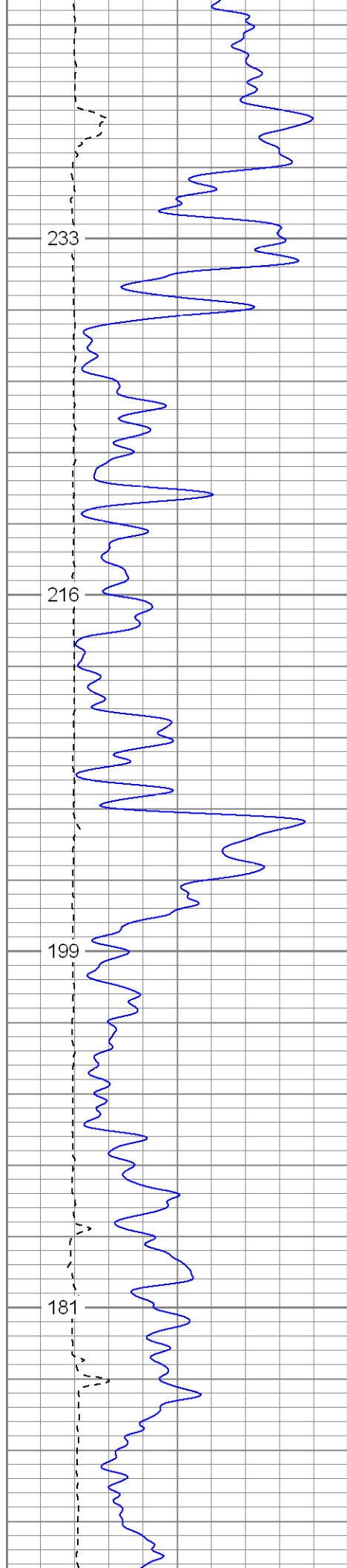


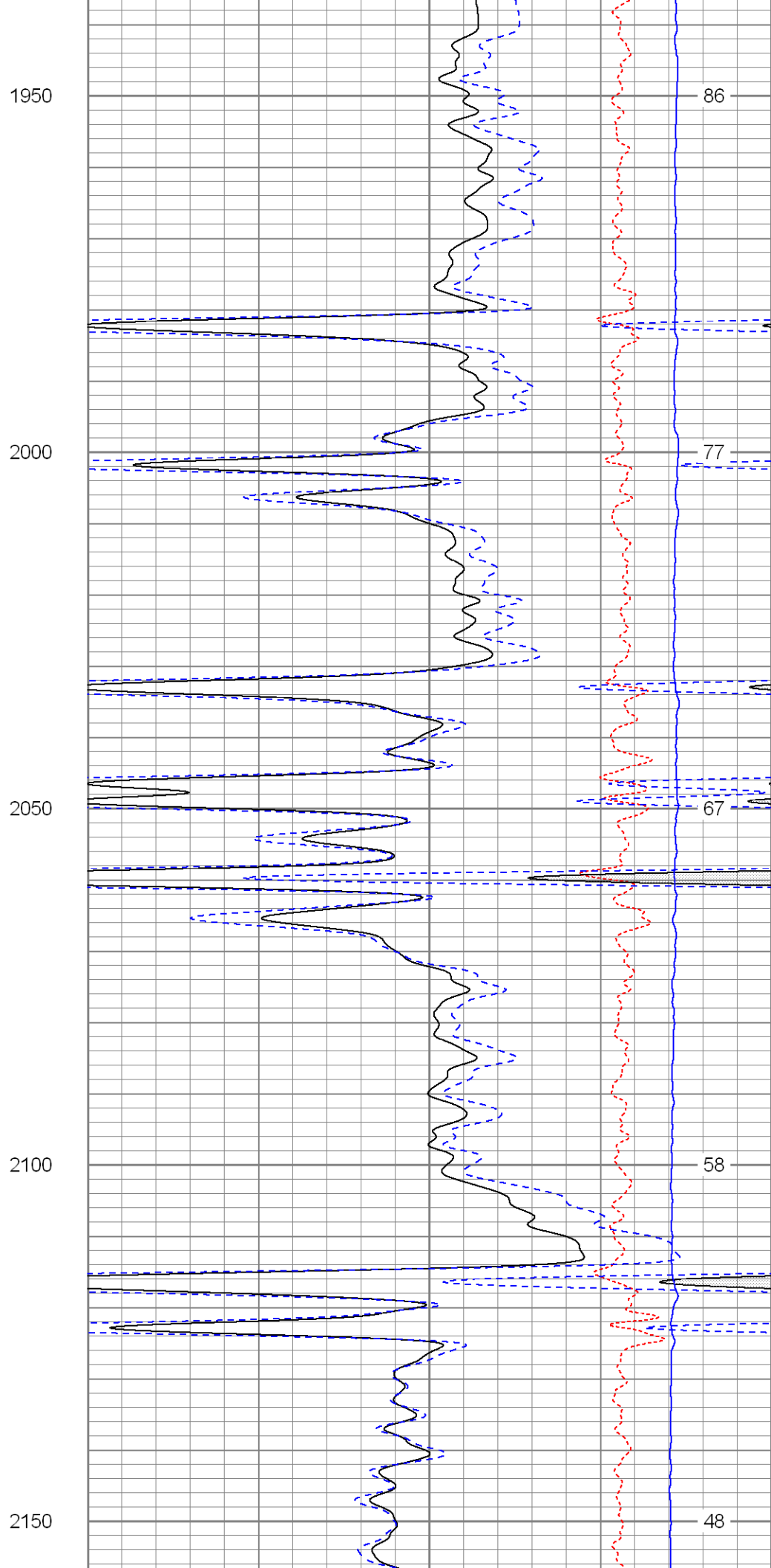
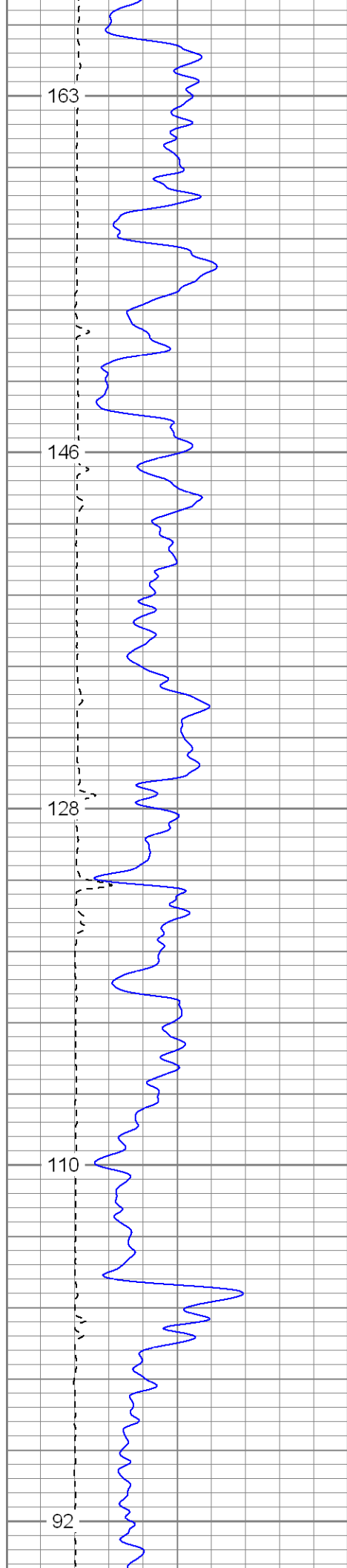


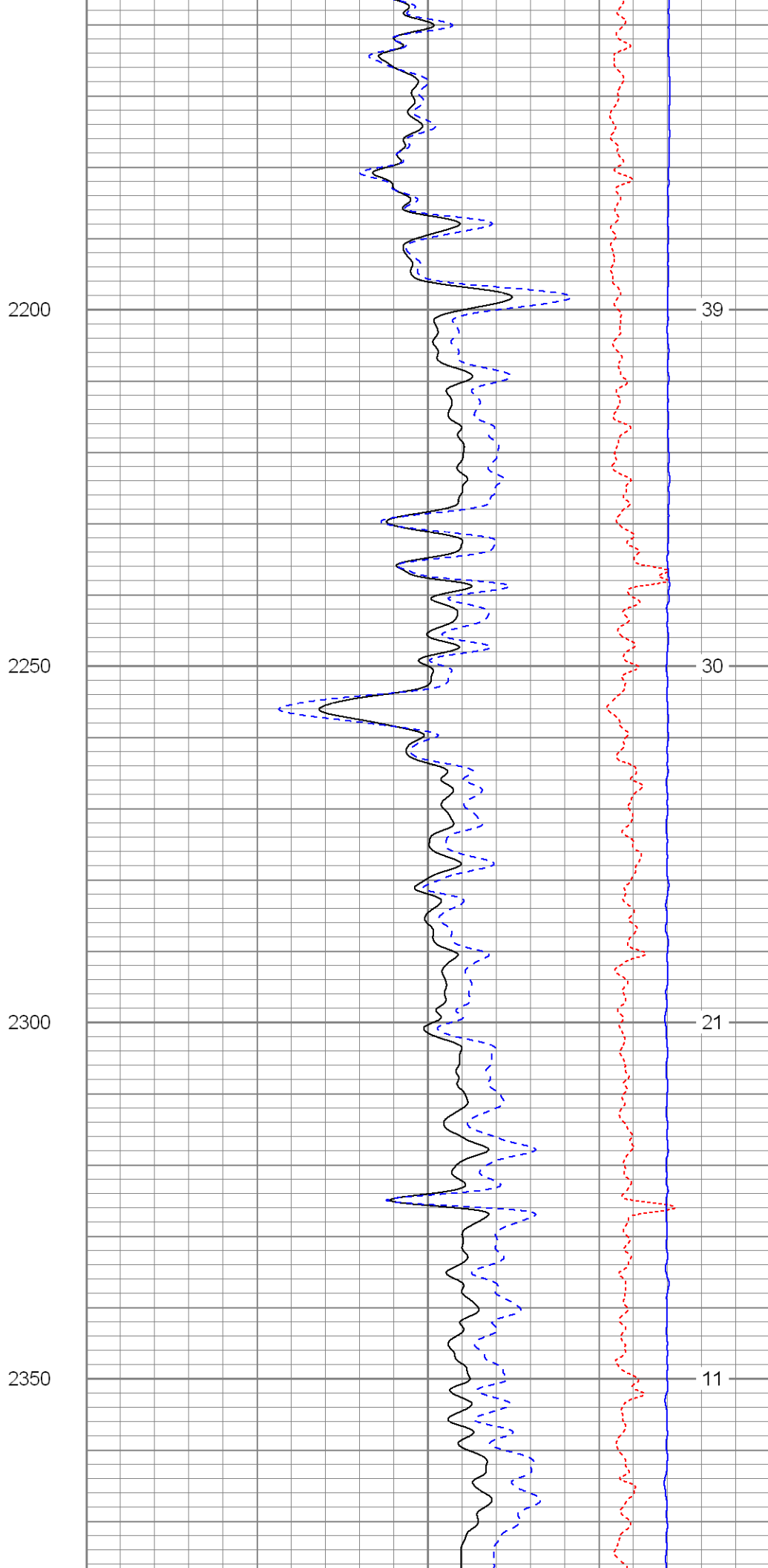
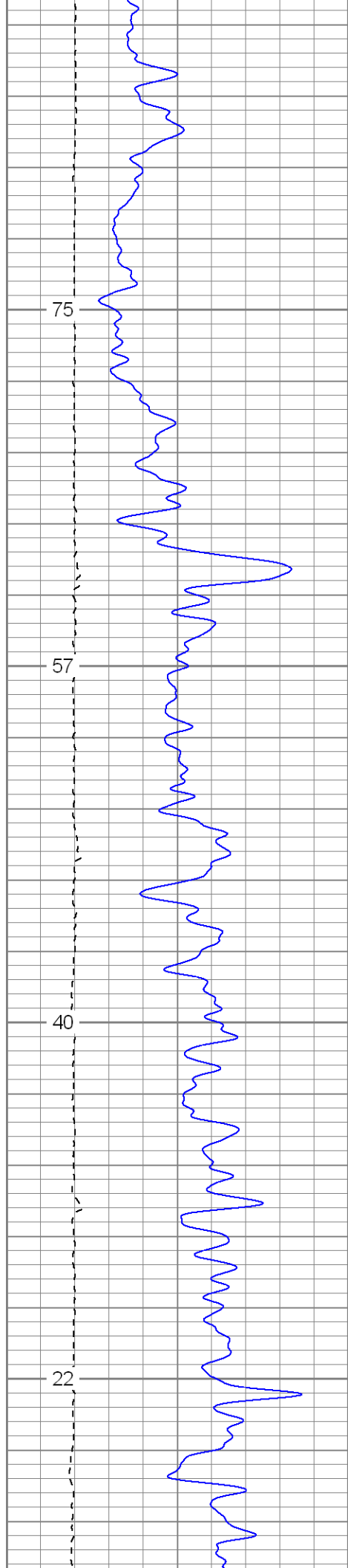


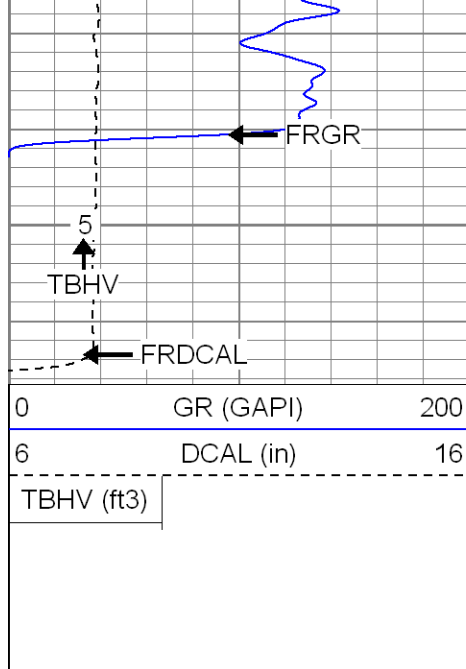




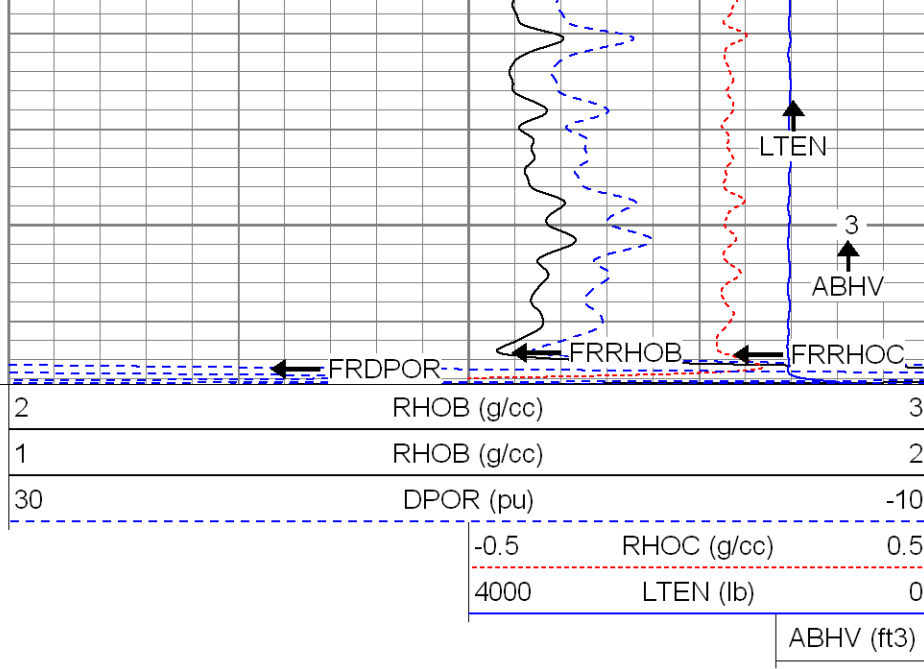








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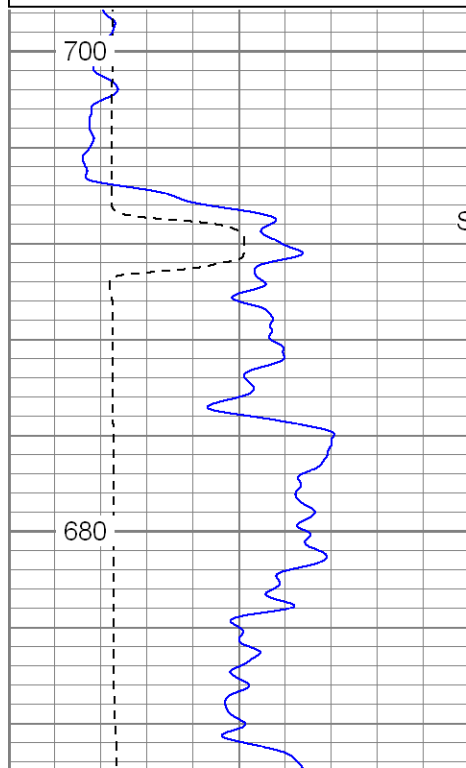
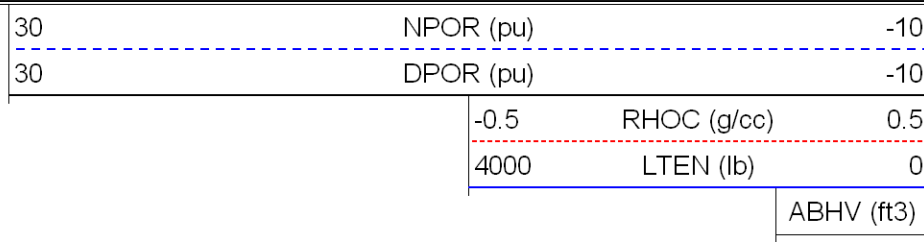
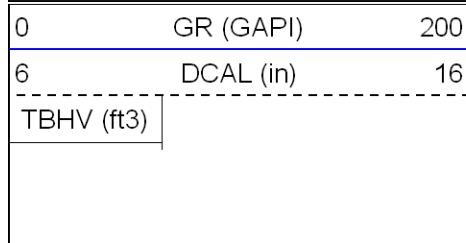


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Main Pass

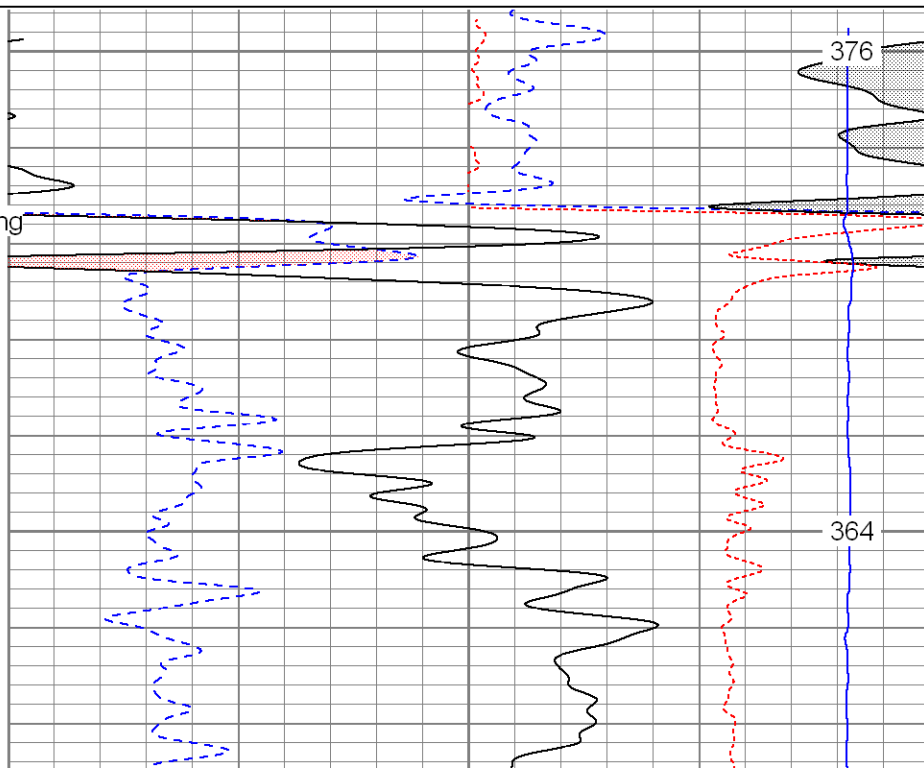
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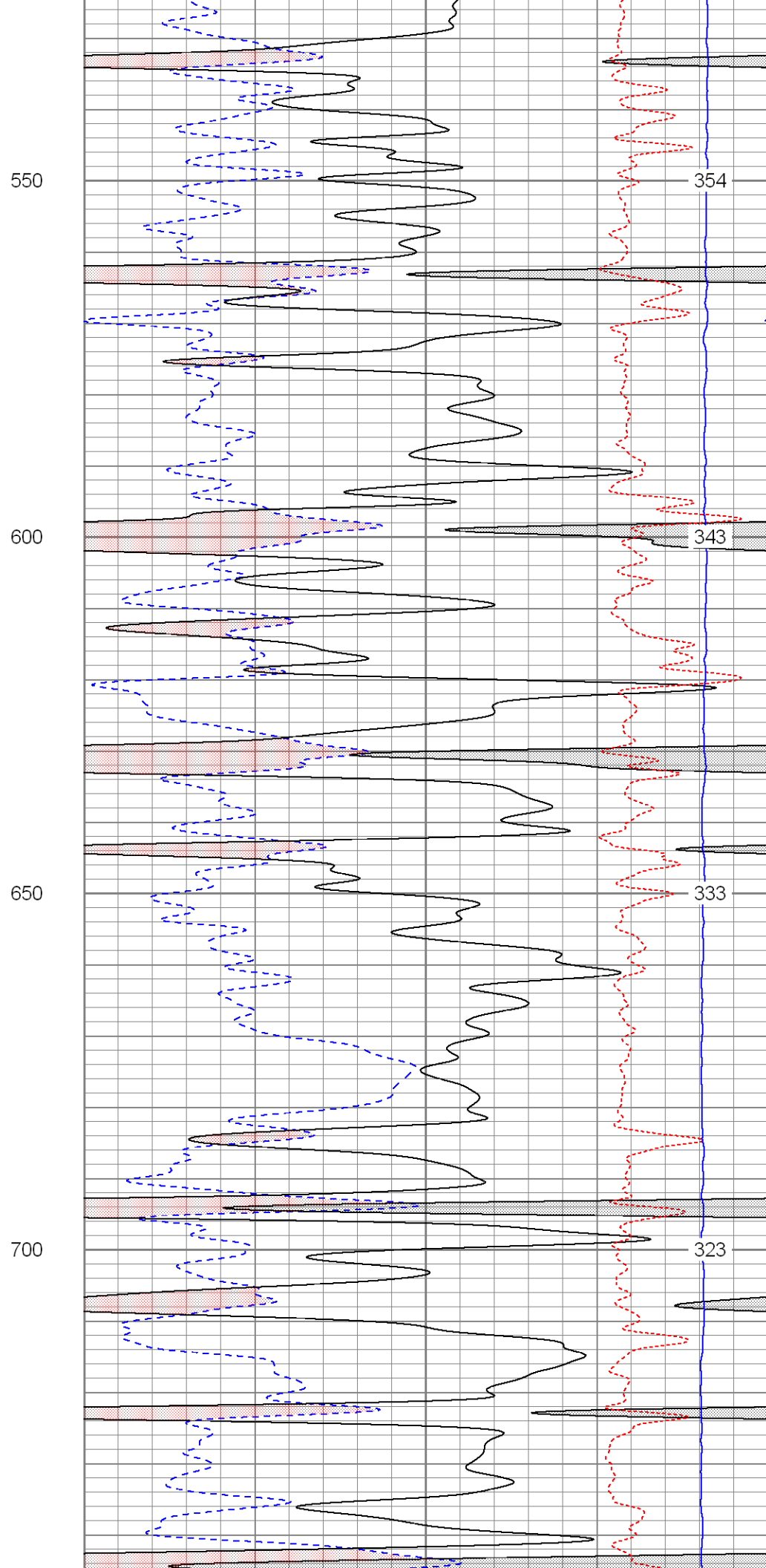
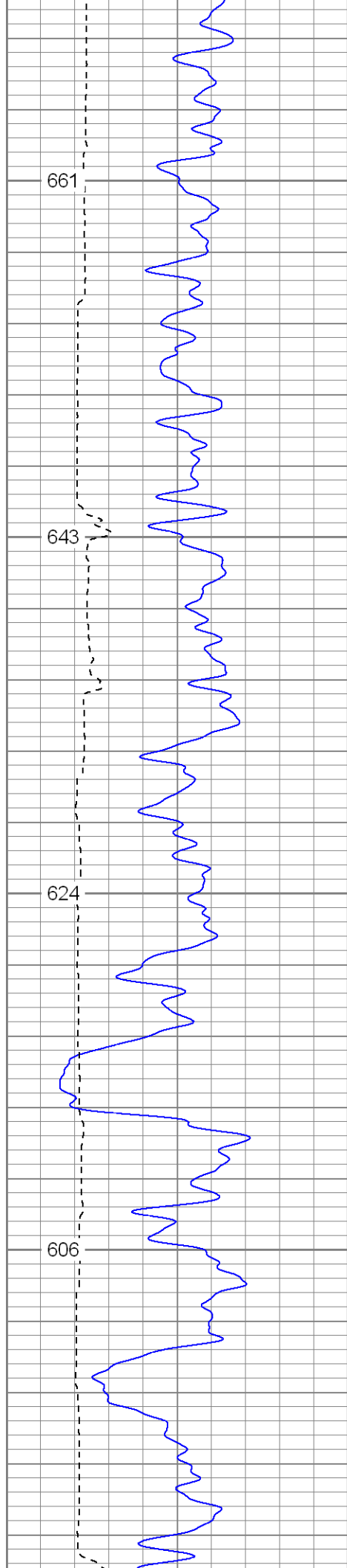


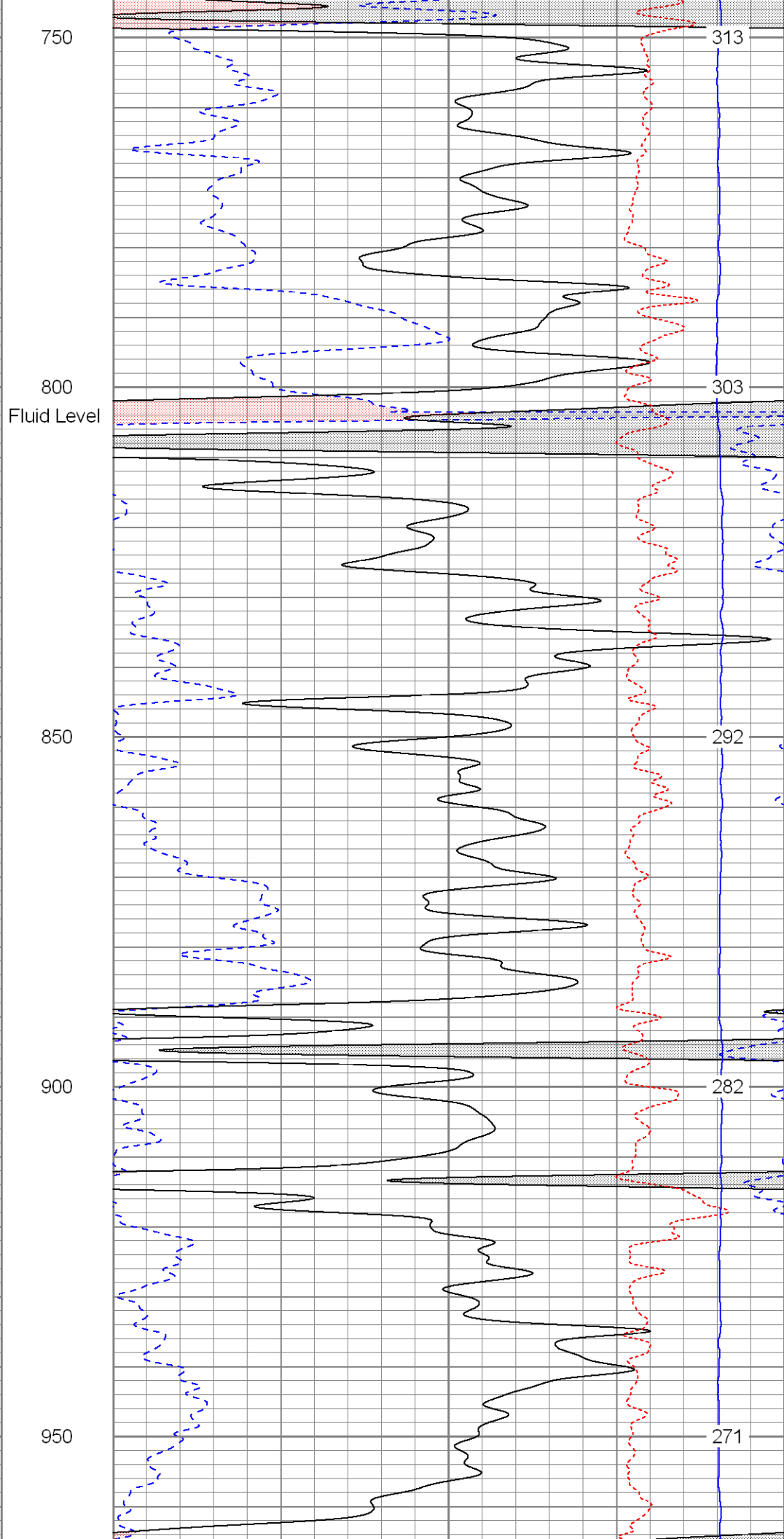
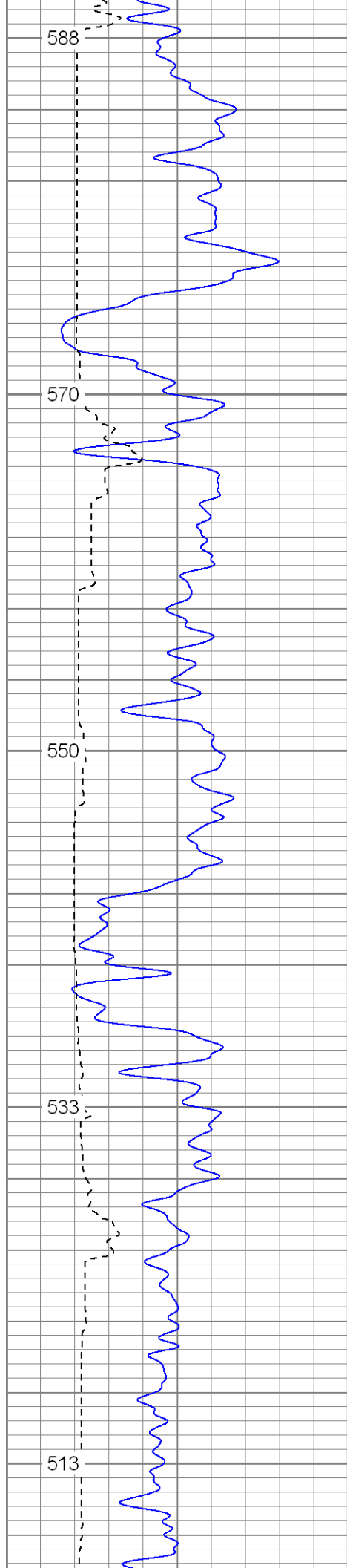
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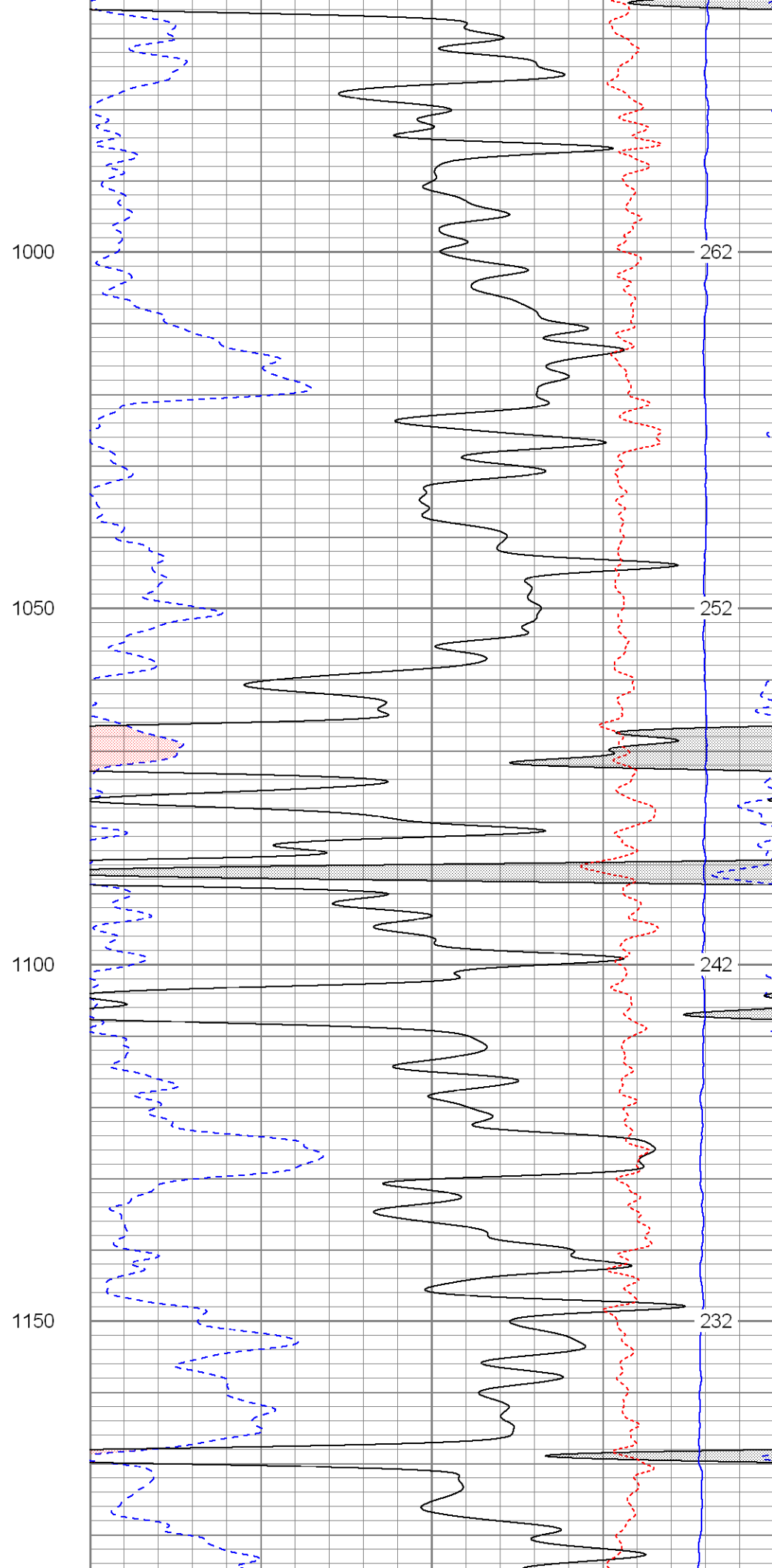
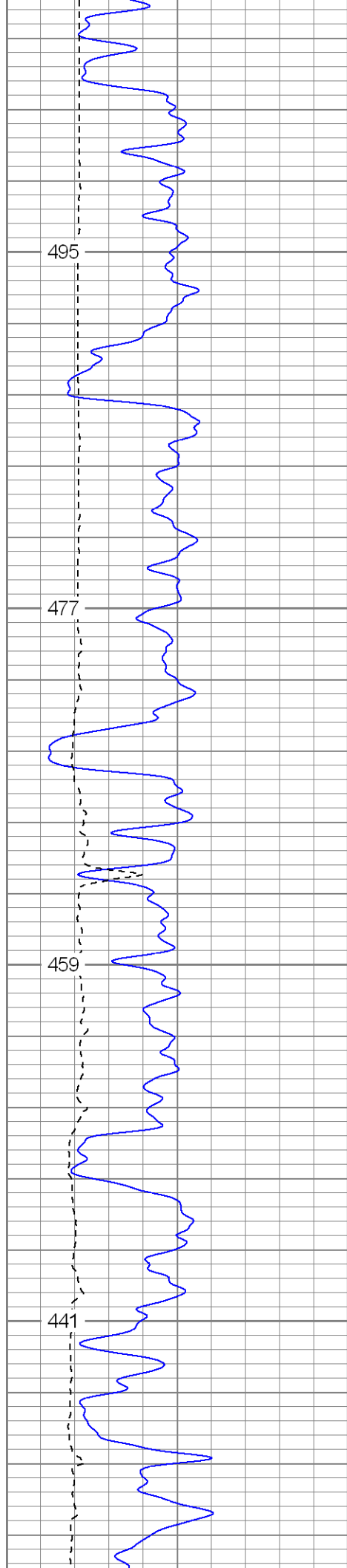
Surface Casing

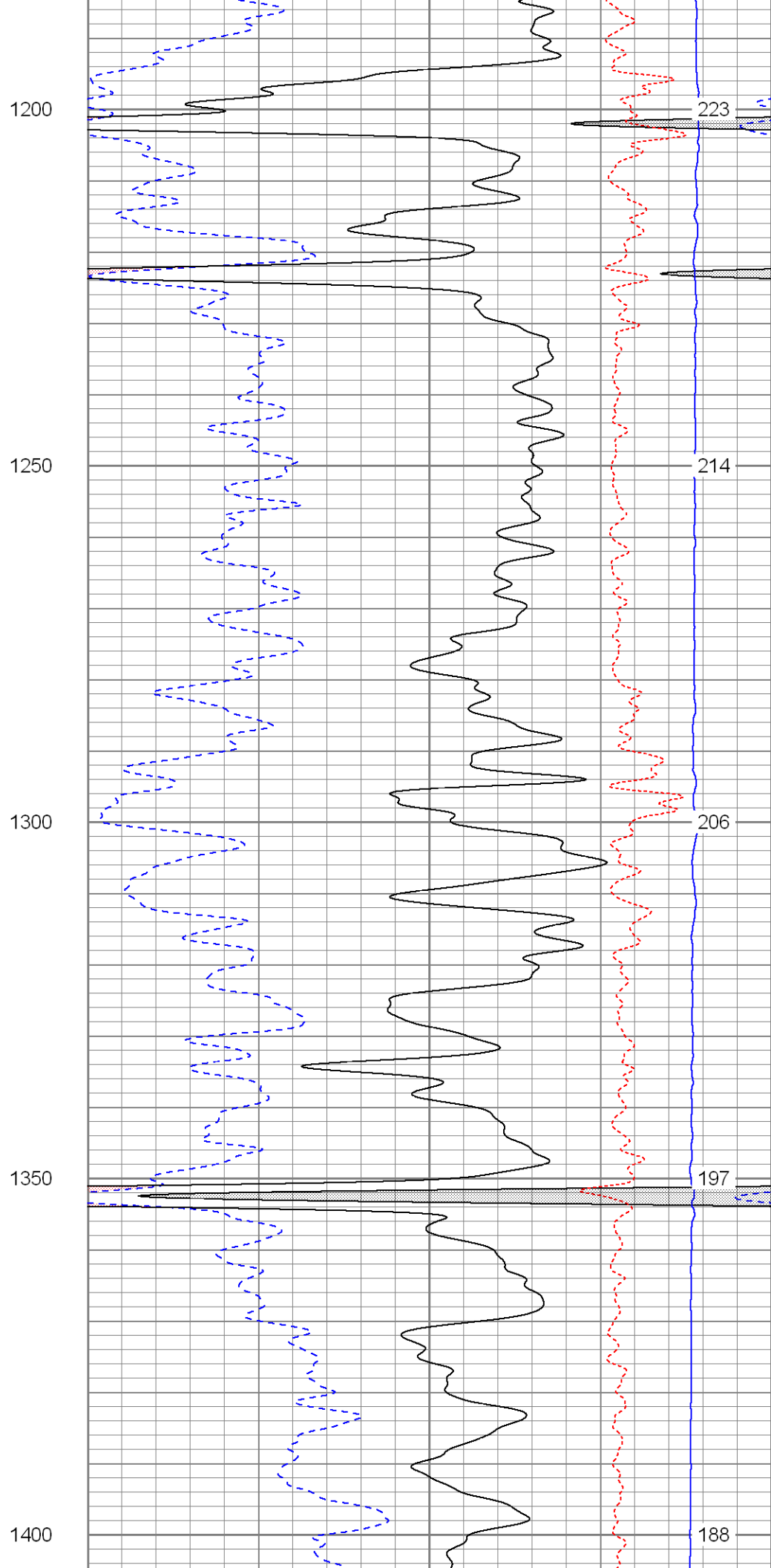
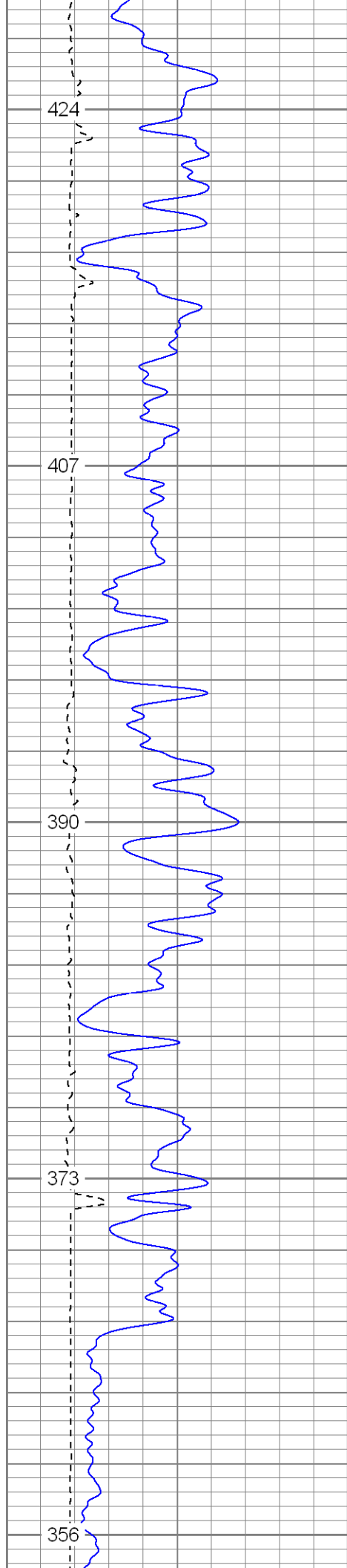
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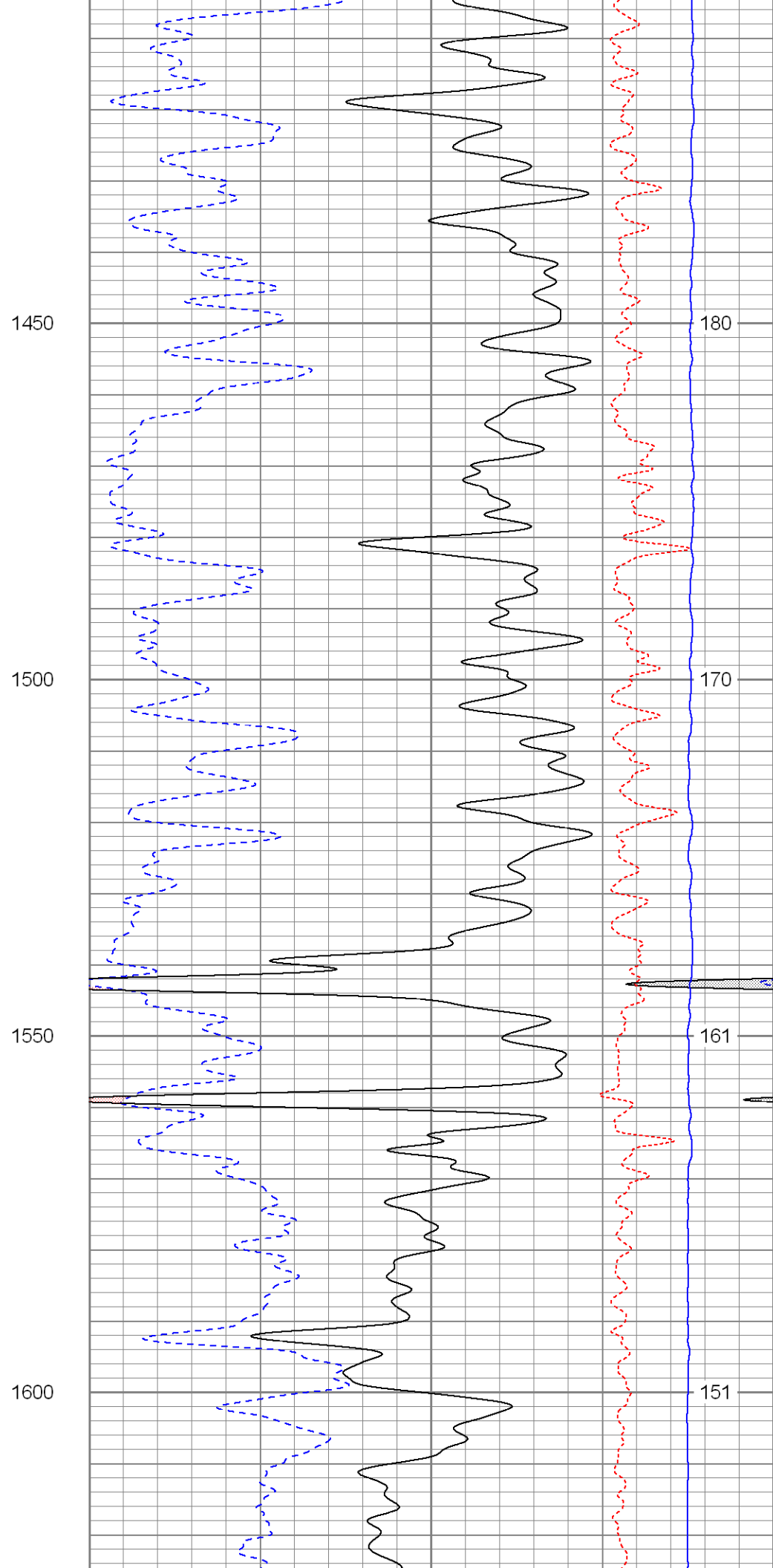
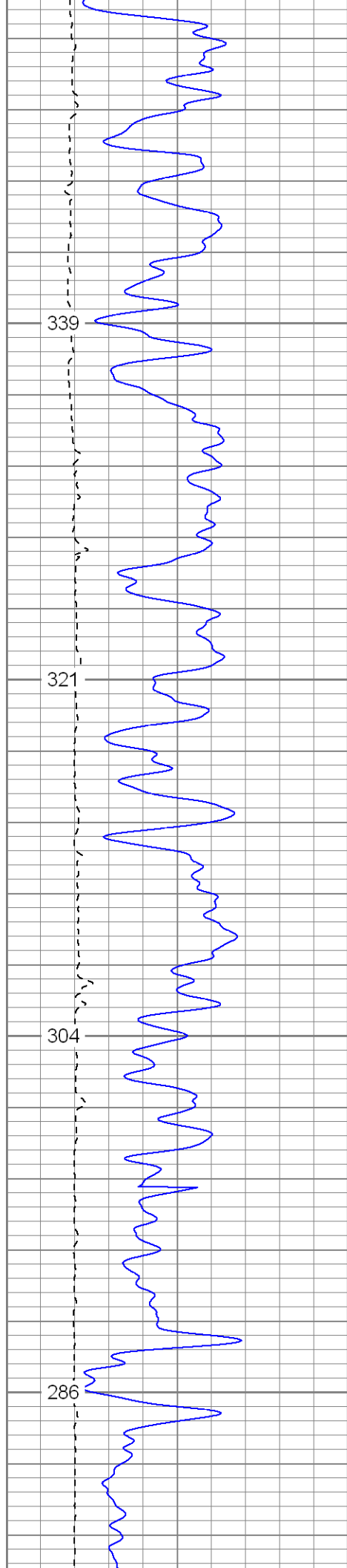


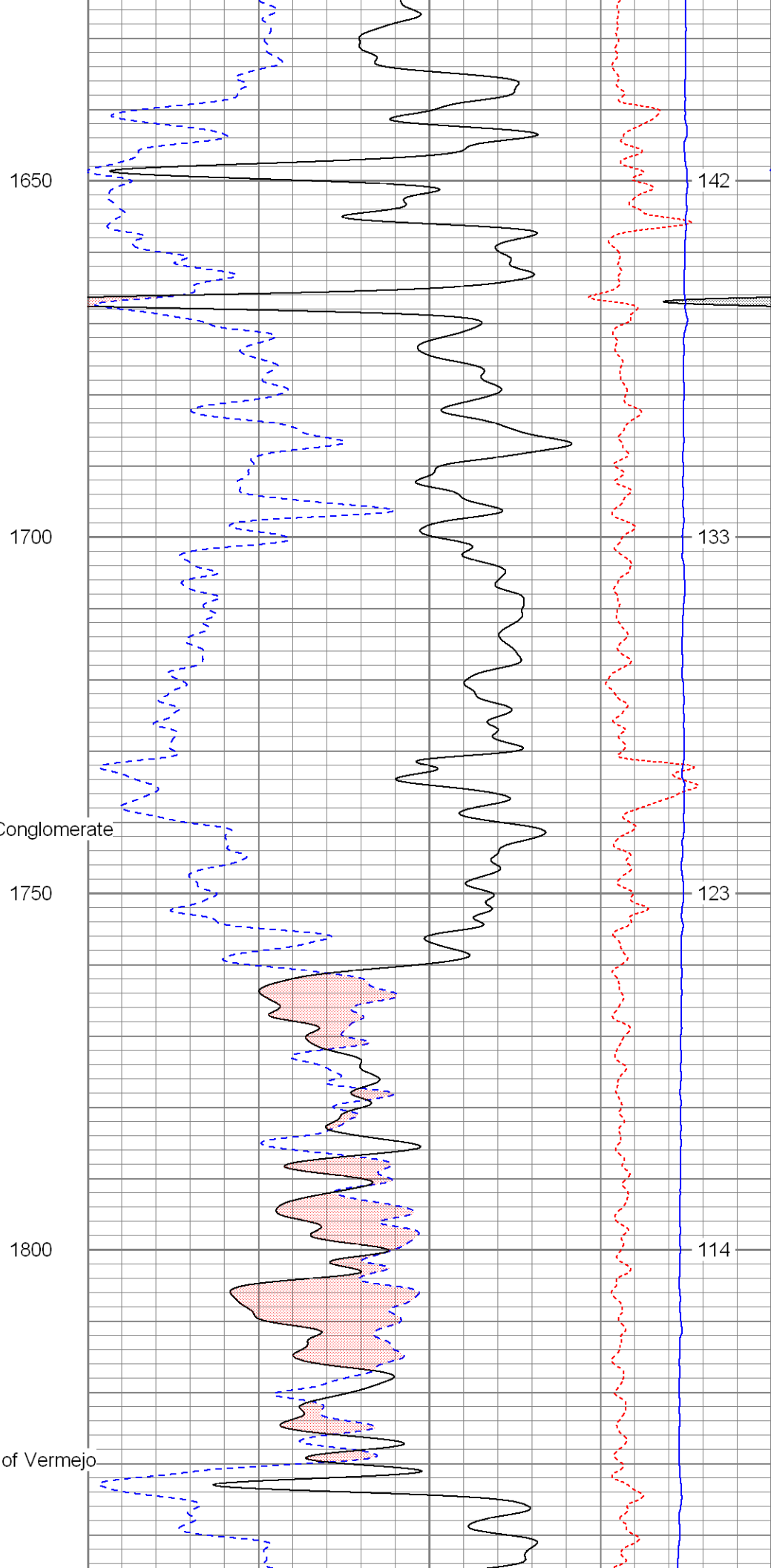
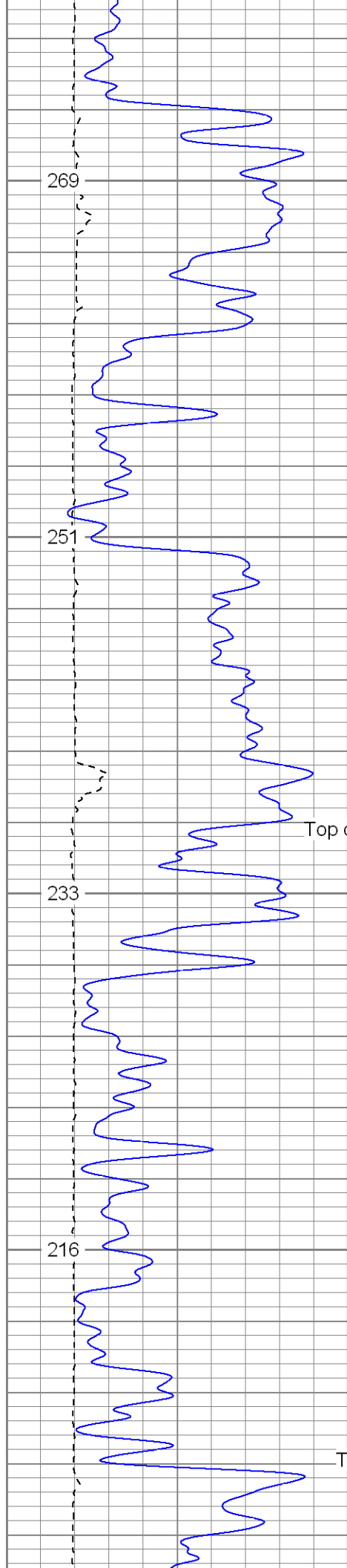


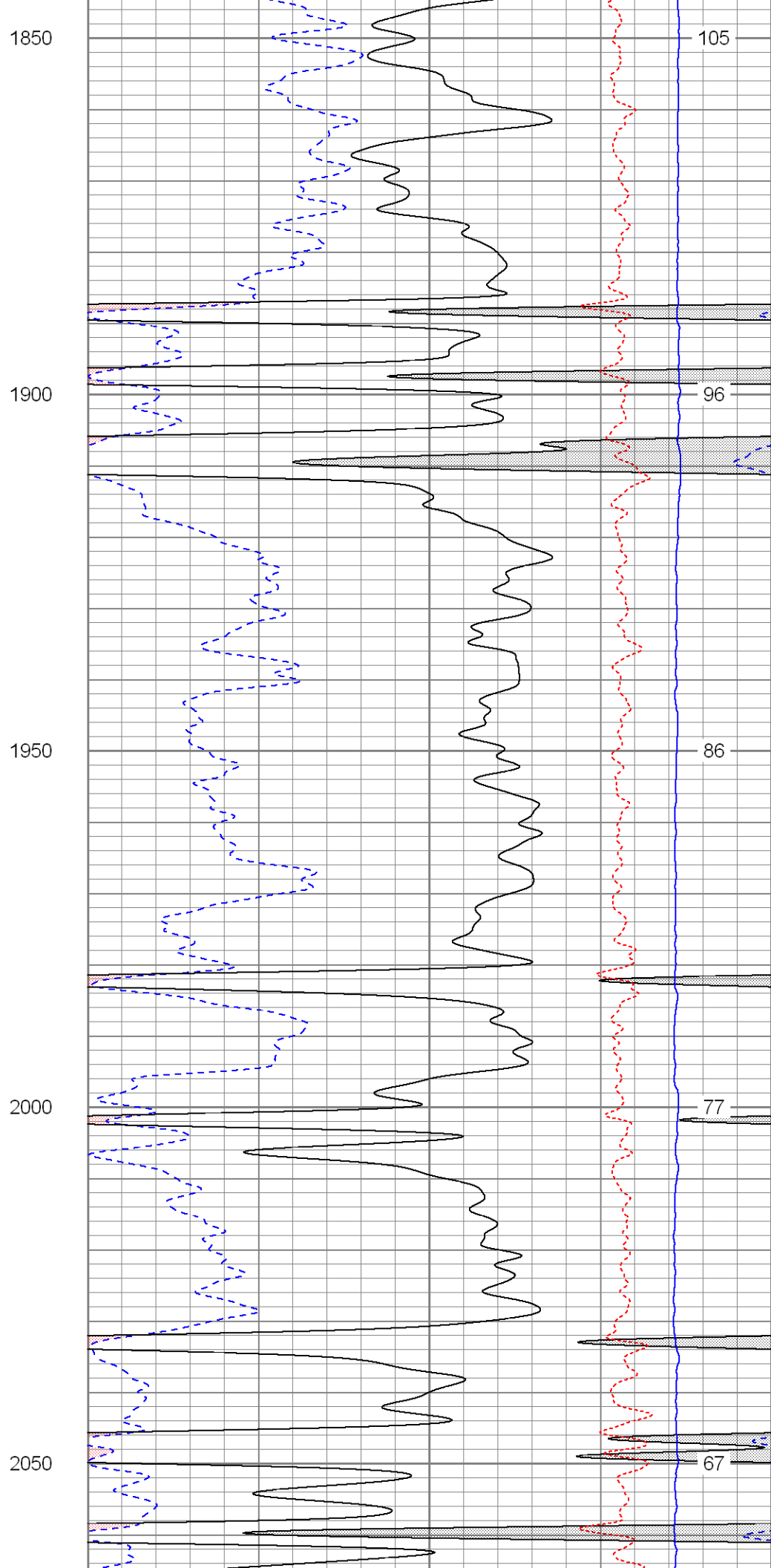
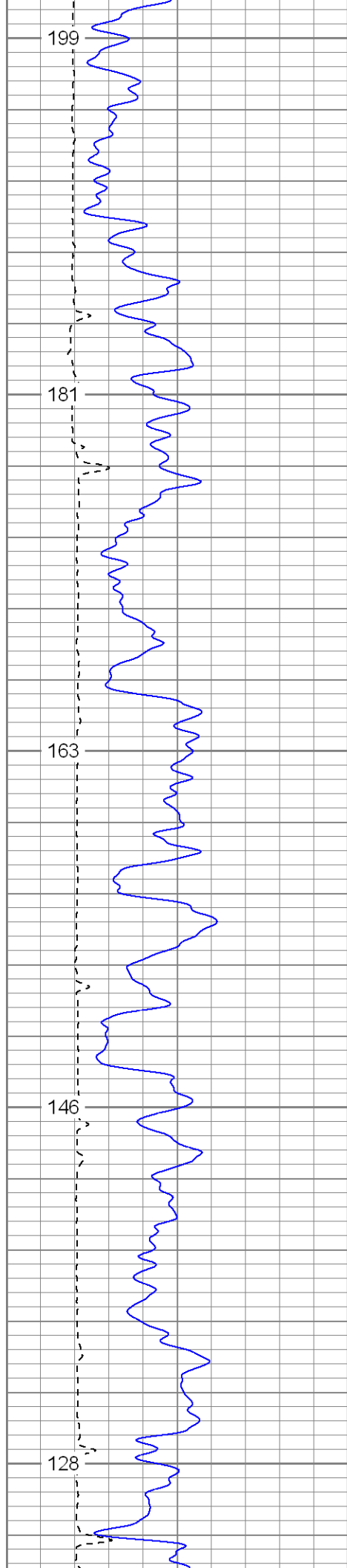


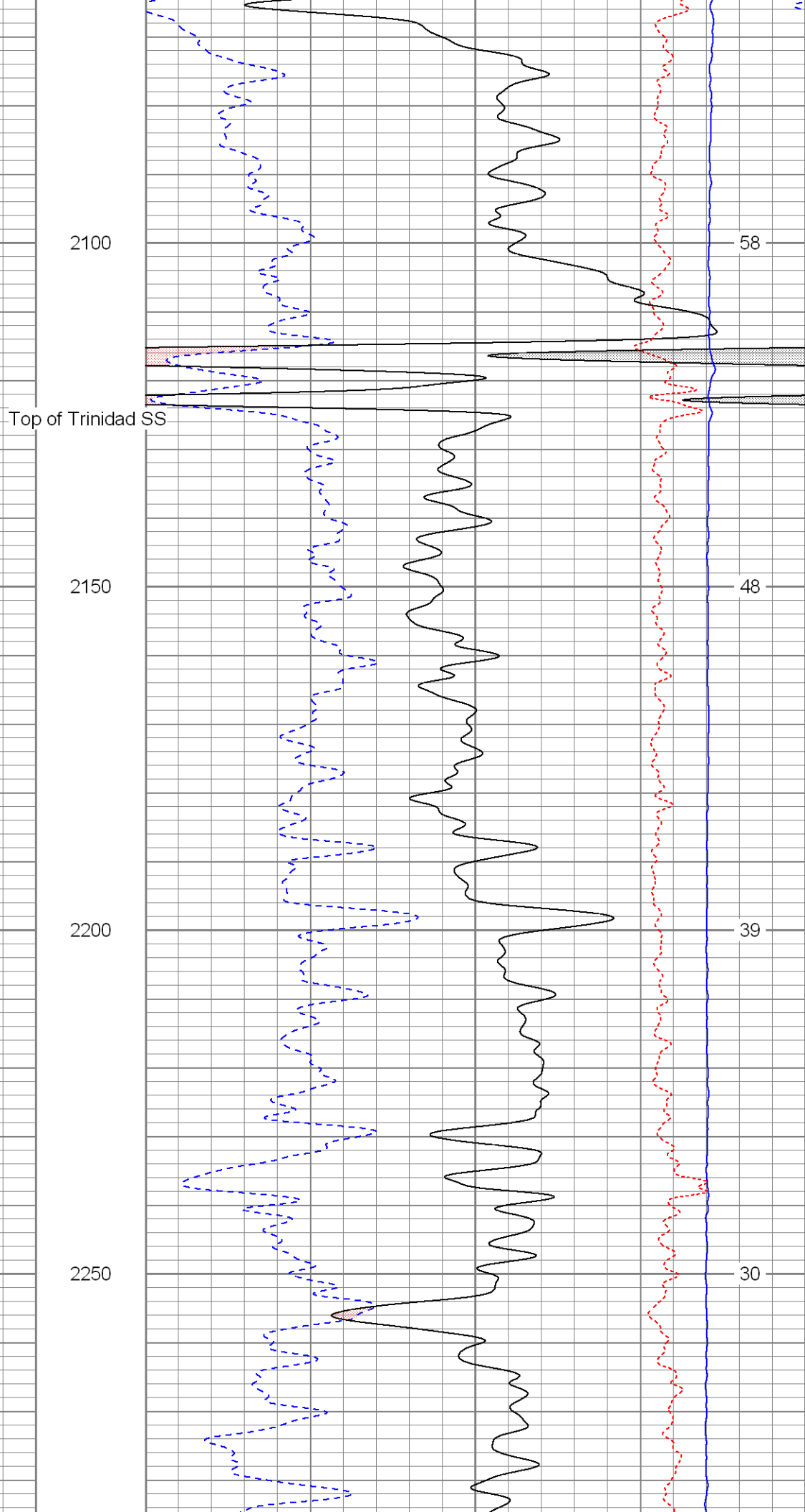
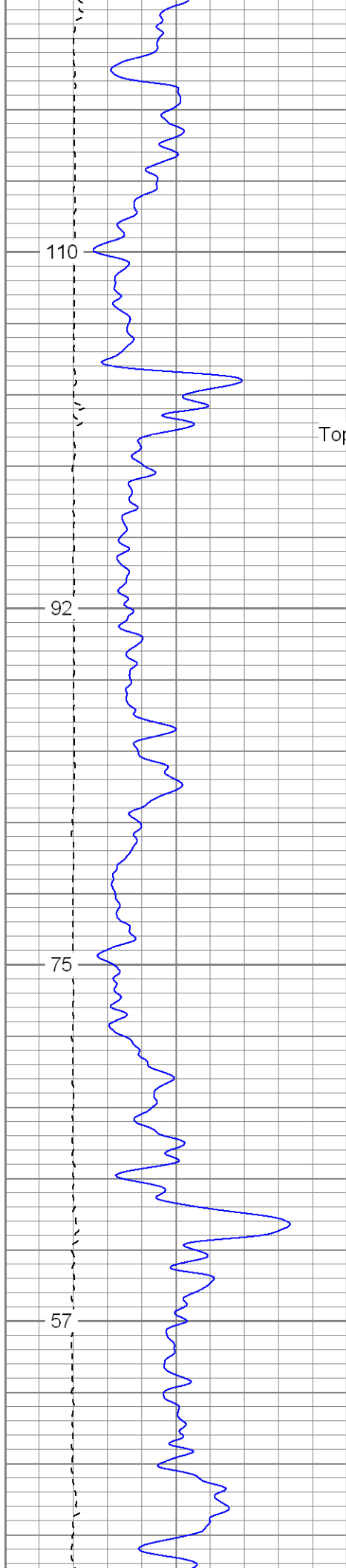


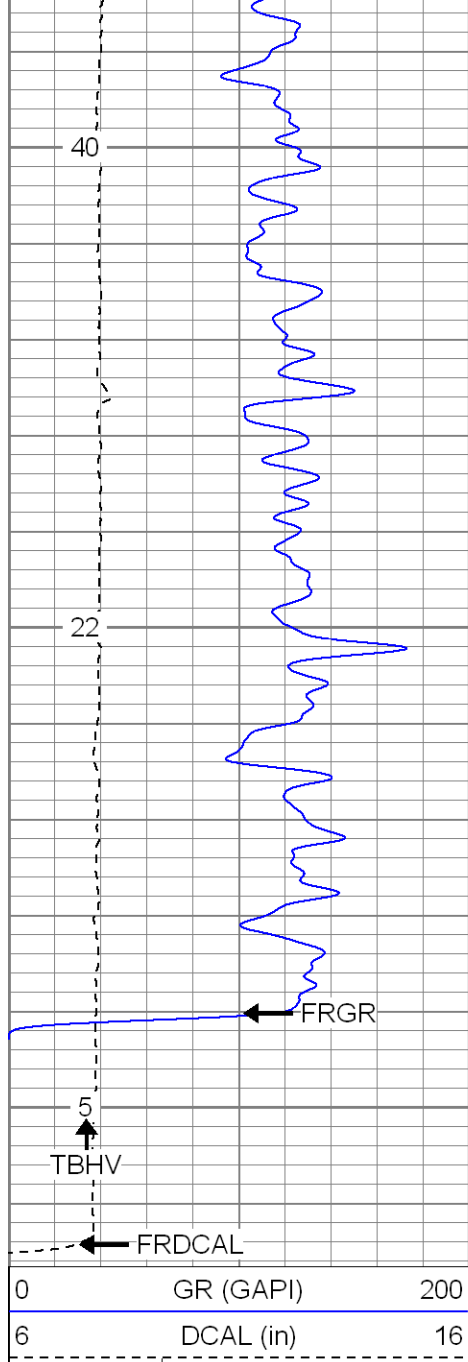




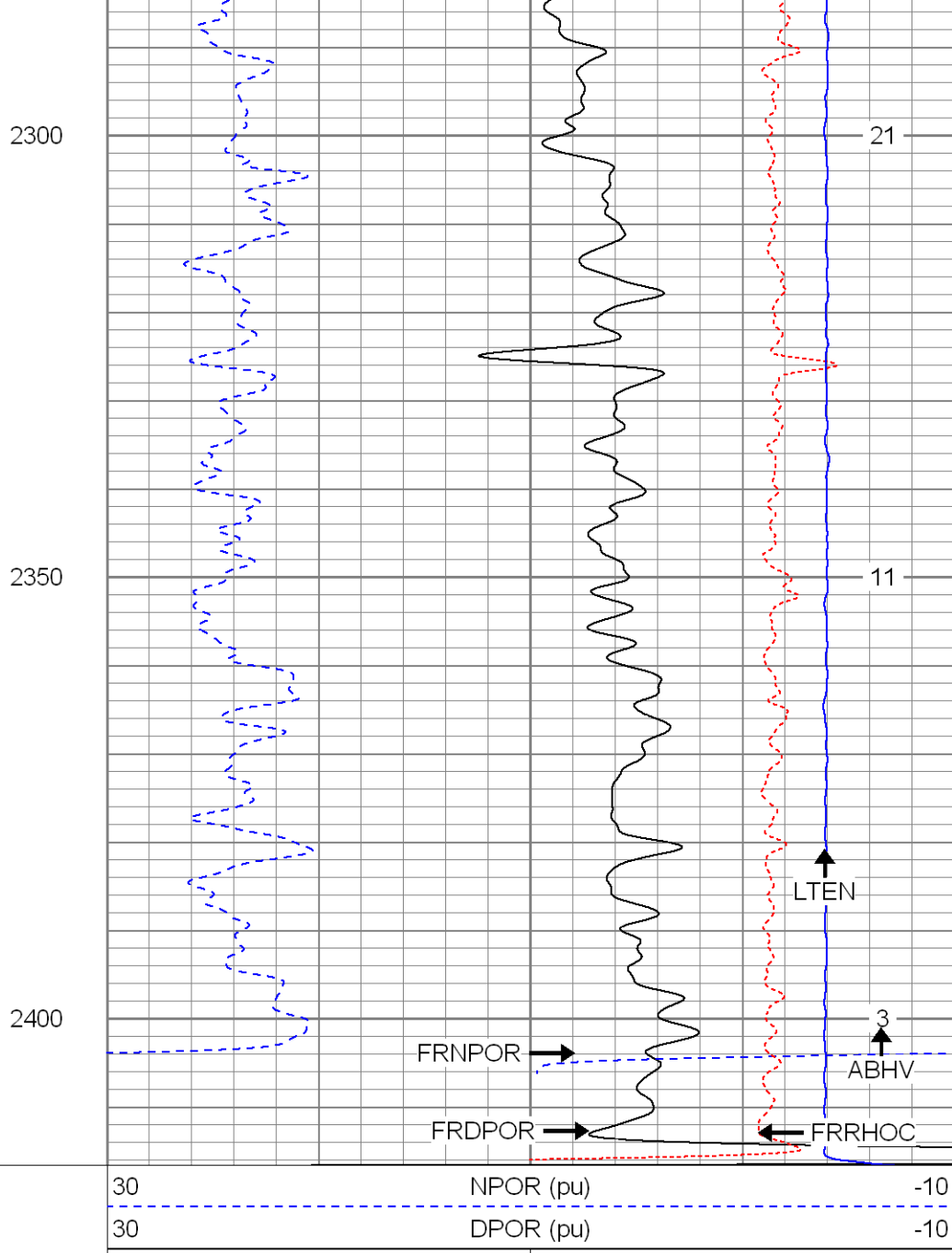








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOc (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		



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Repeat Pass

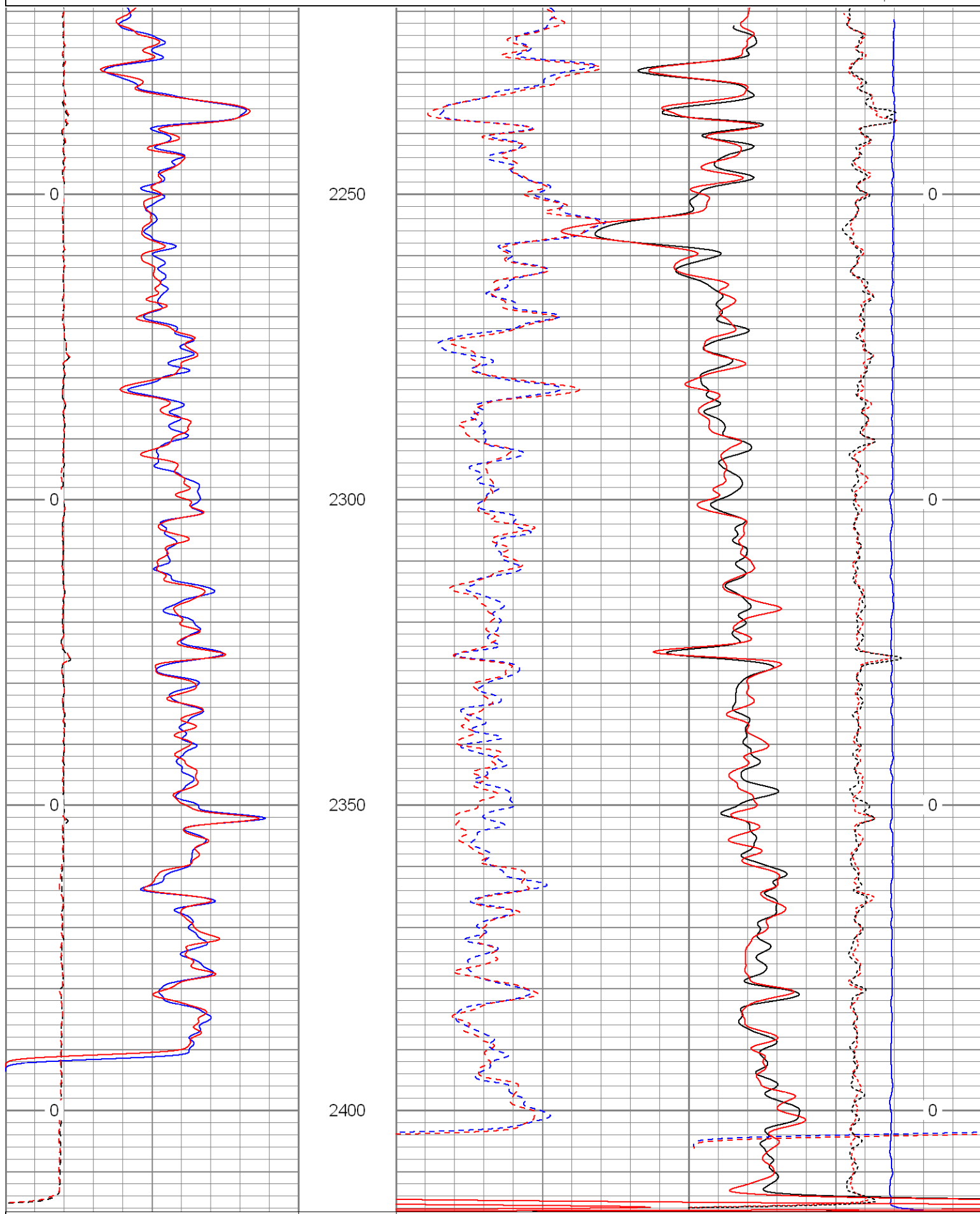
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Charted by: Depth in Feet scaled 1:240

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

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

TBHV (ft3)

-0.5	RHOC (g/cc)	0.5
4000	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)		

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
ABHV (ft3)		



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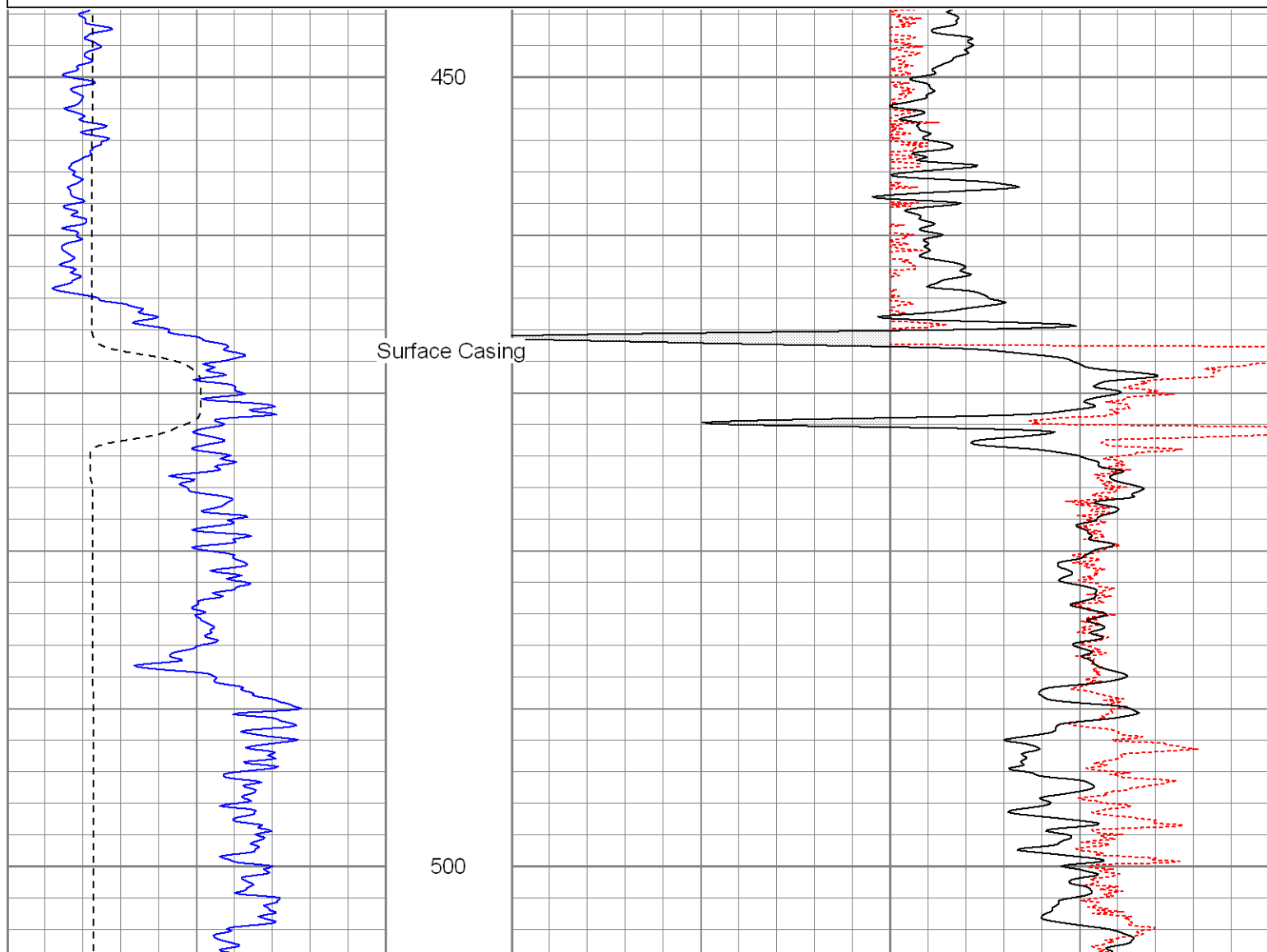
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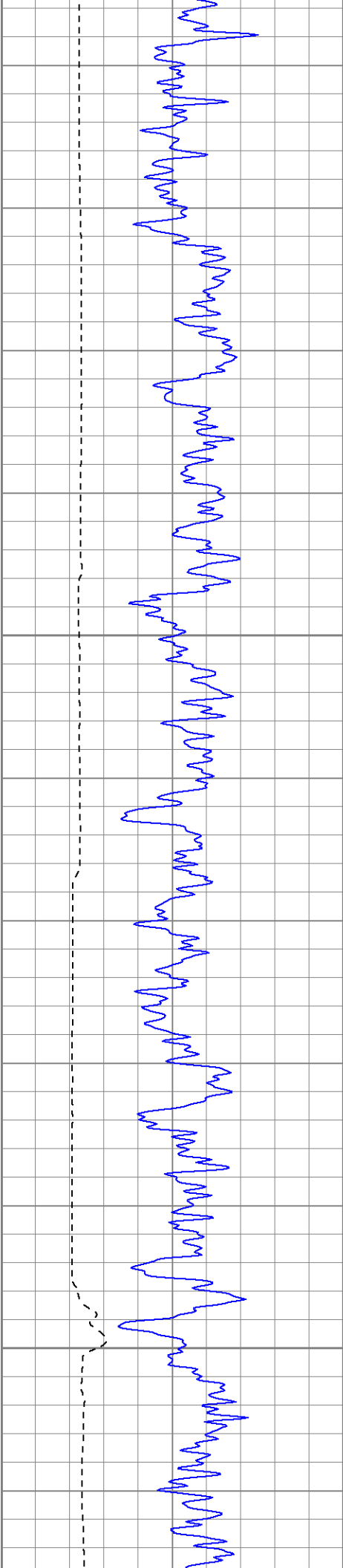
High Resolution Pass

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Presentation Format: cdlhr
Dataset Creation: Tue Apr 29 09:09:57 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

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6	DCAL (in)	16

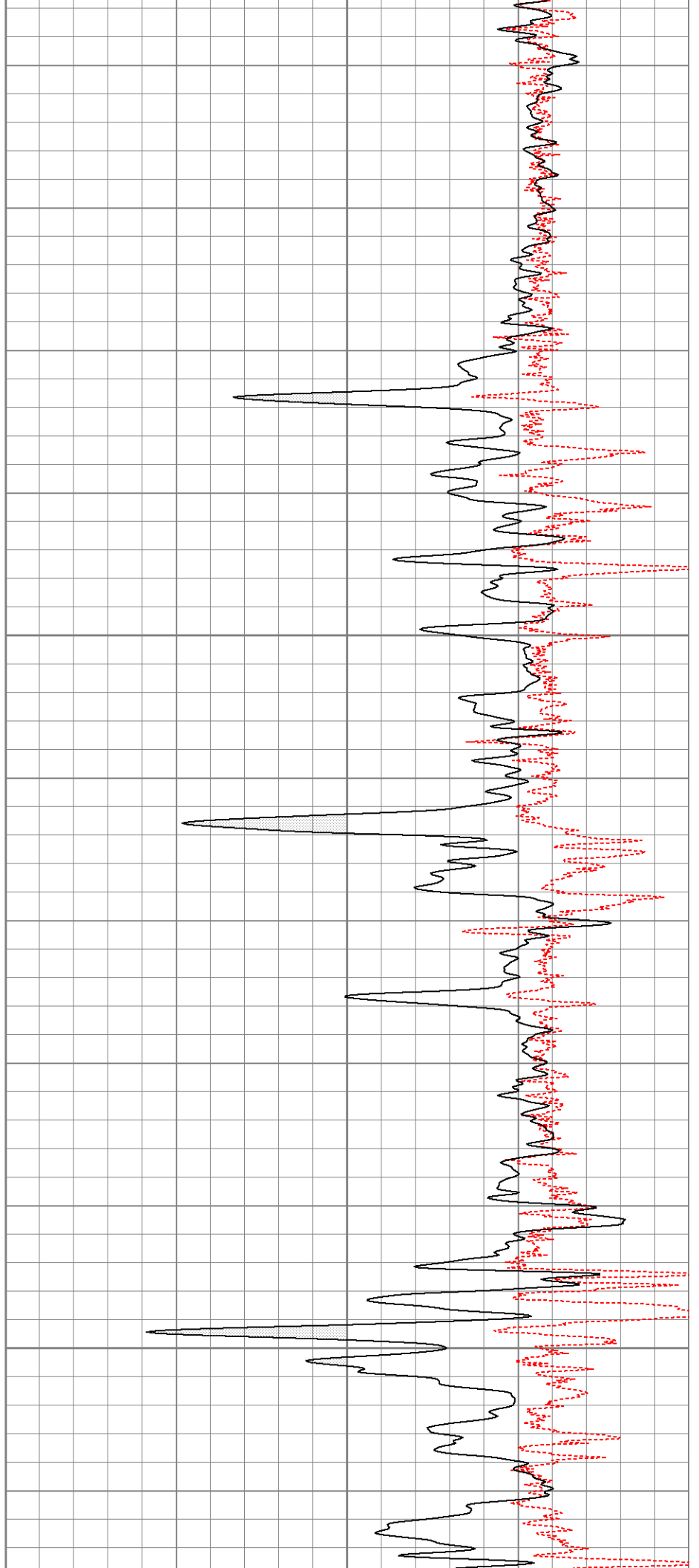
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-0.5	RHOC (g/cc)	0.5

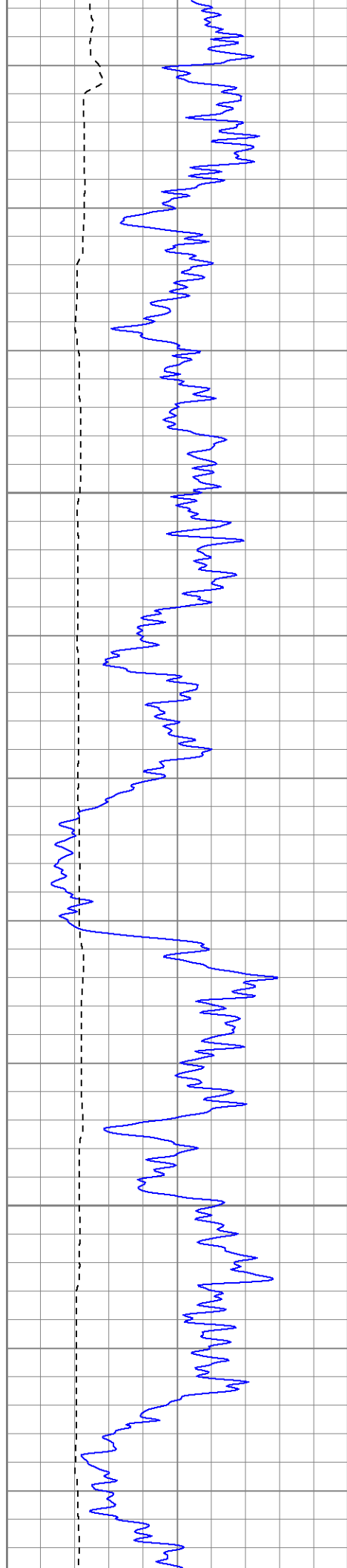




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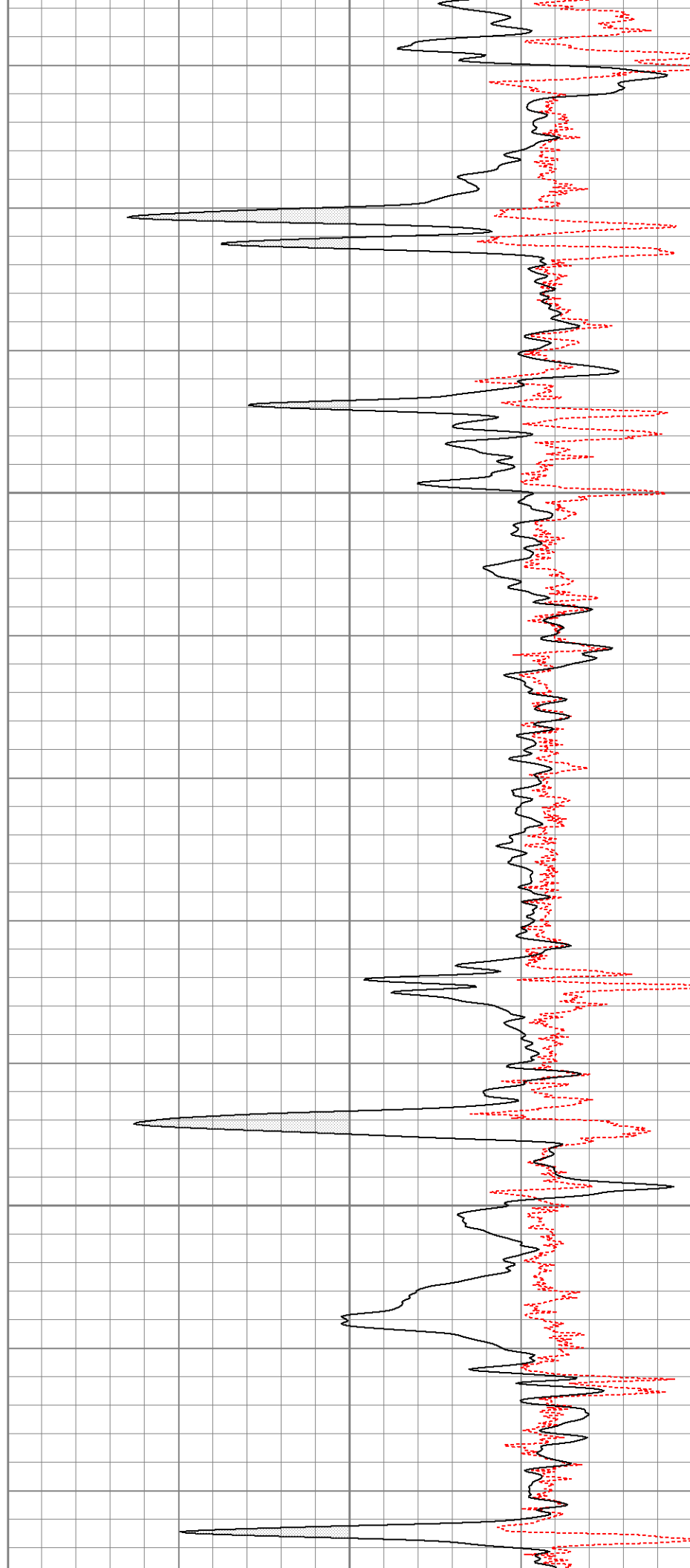
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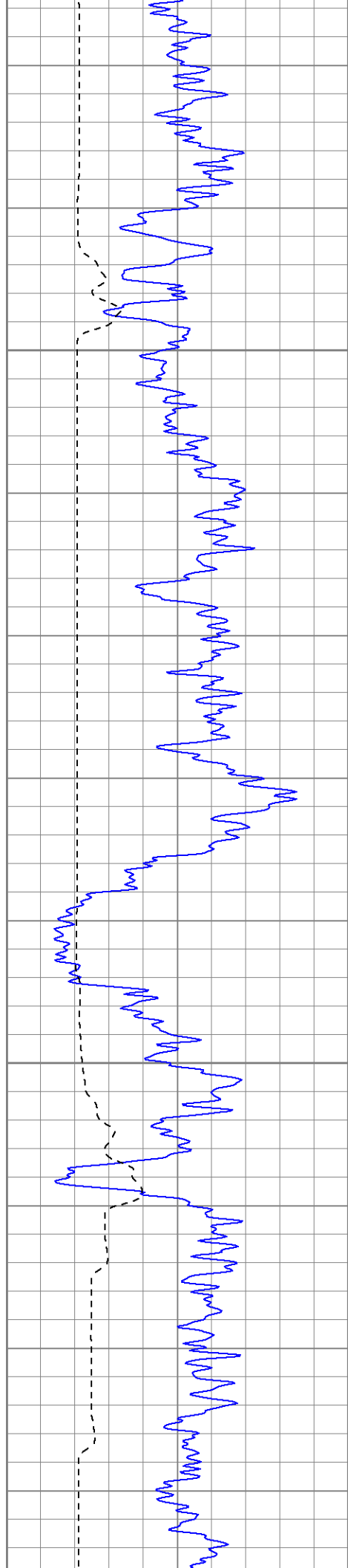




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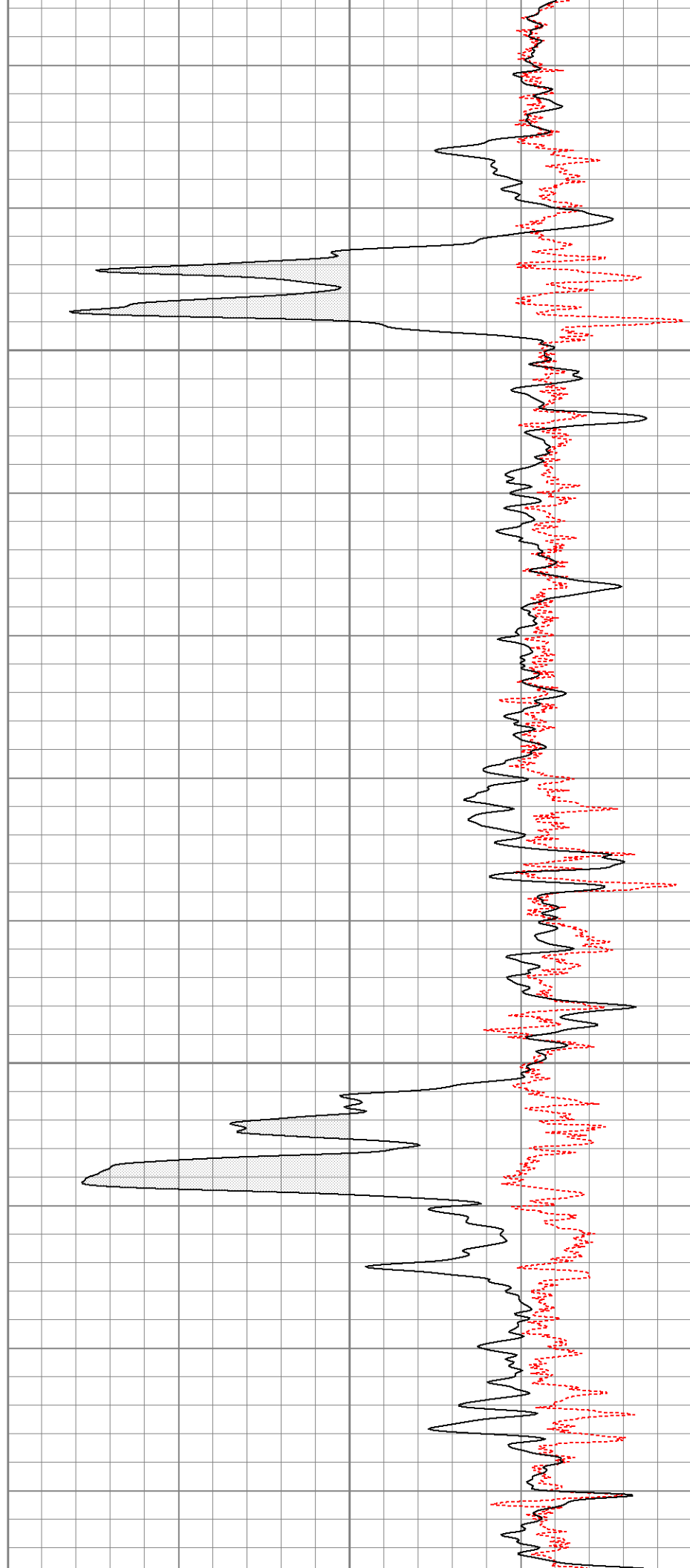
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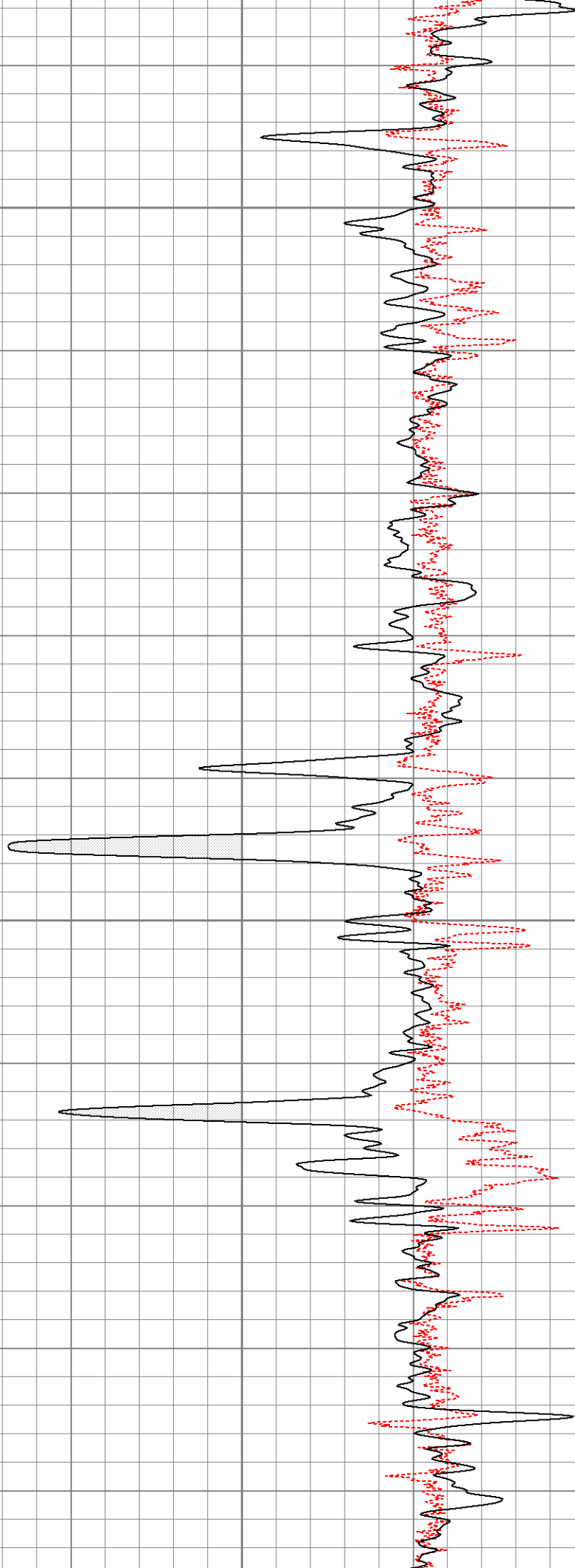
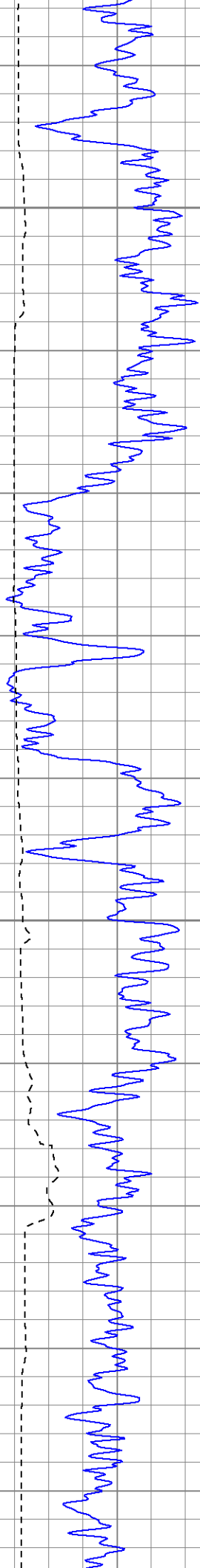
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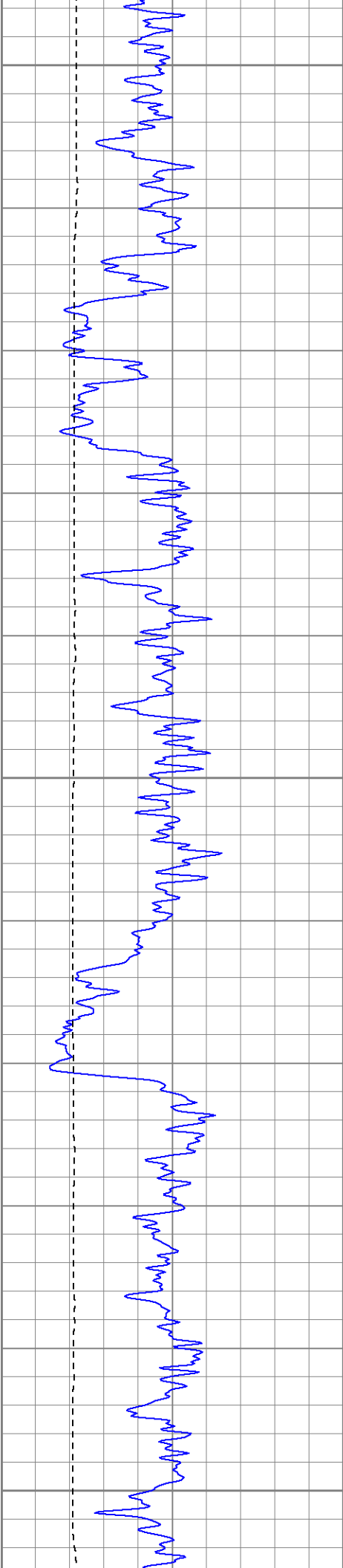
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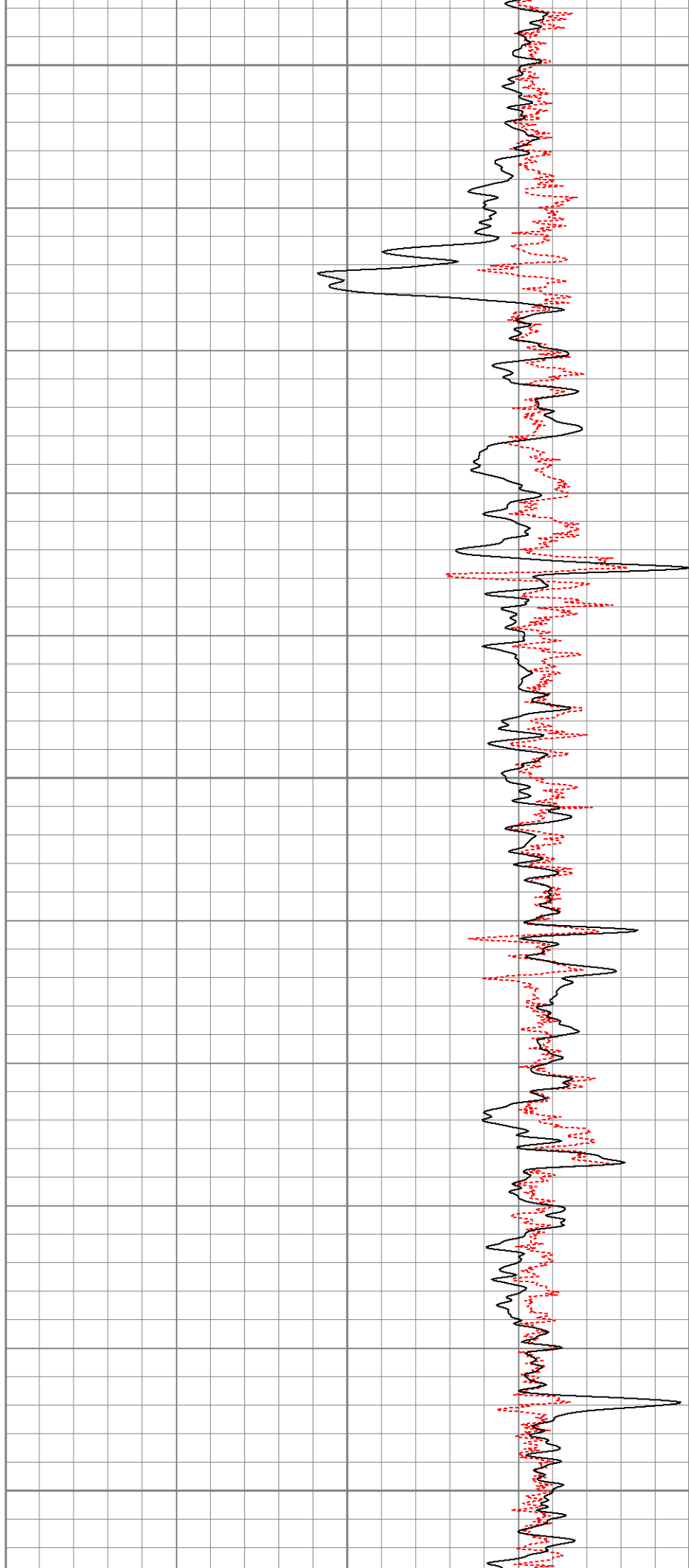


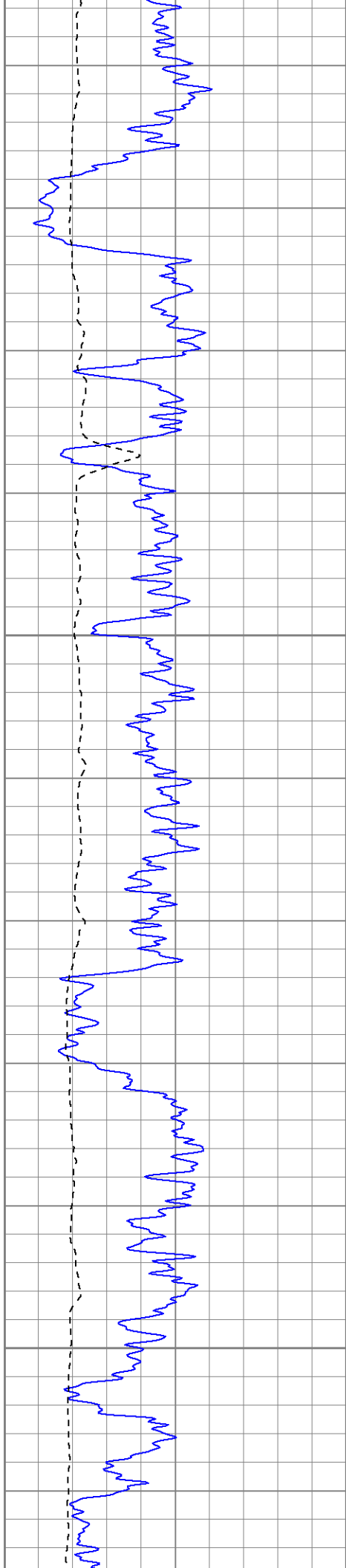


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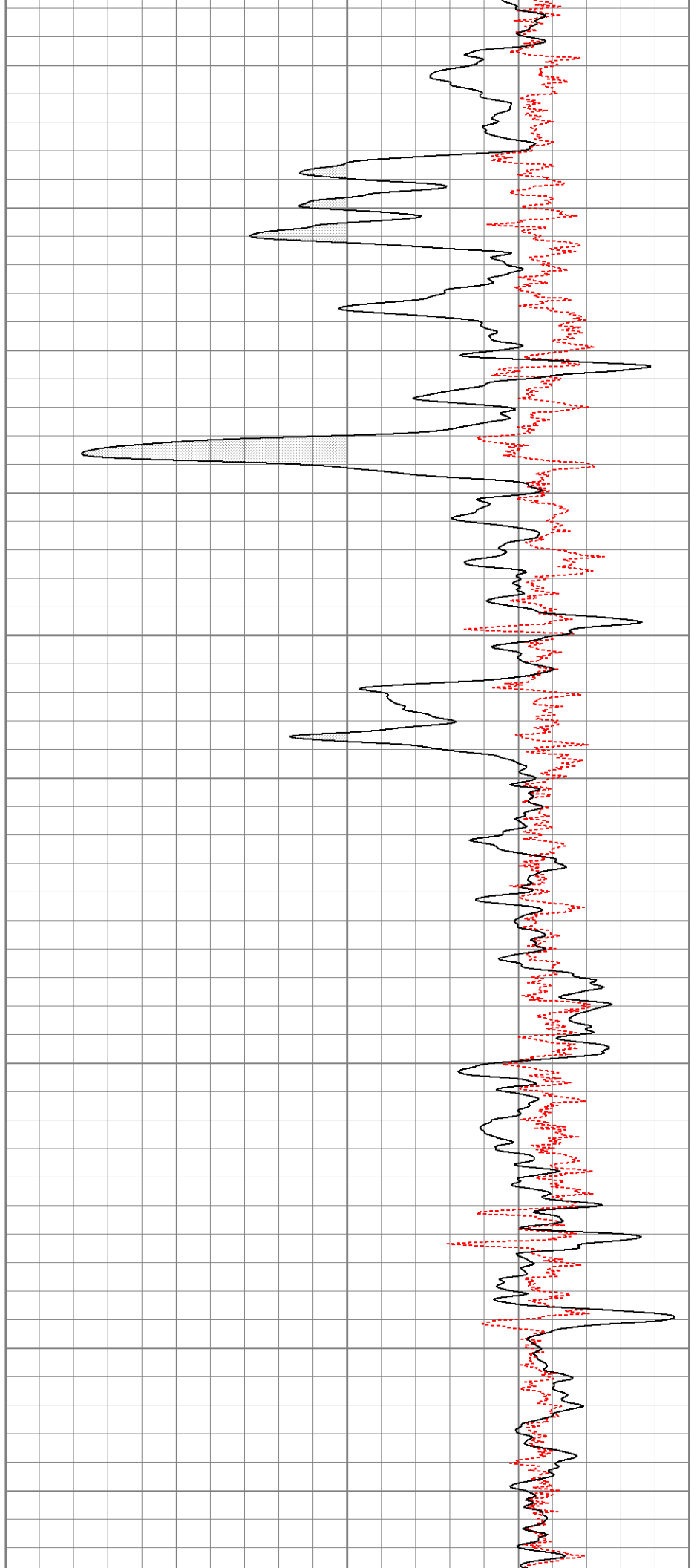
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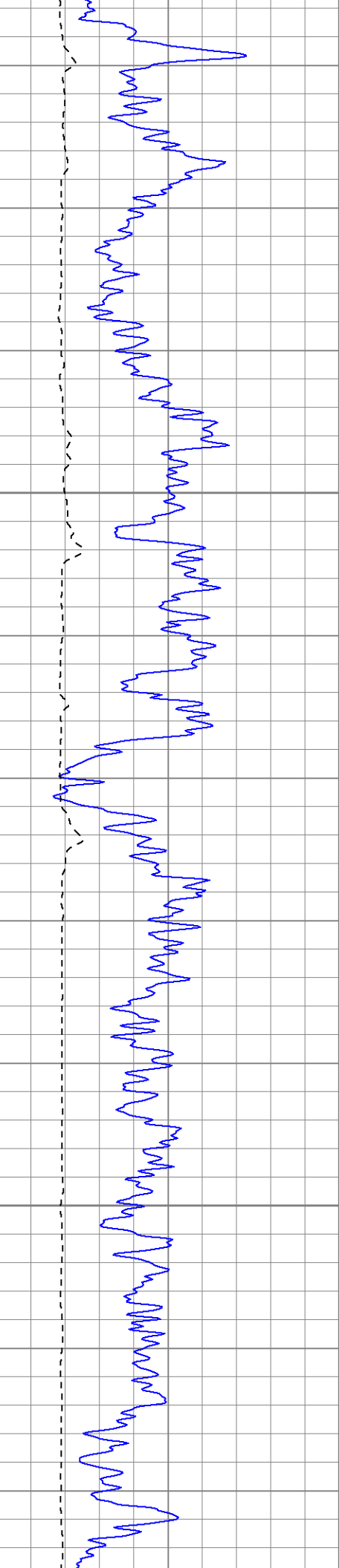




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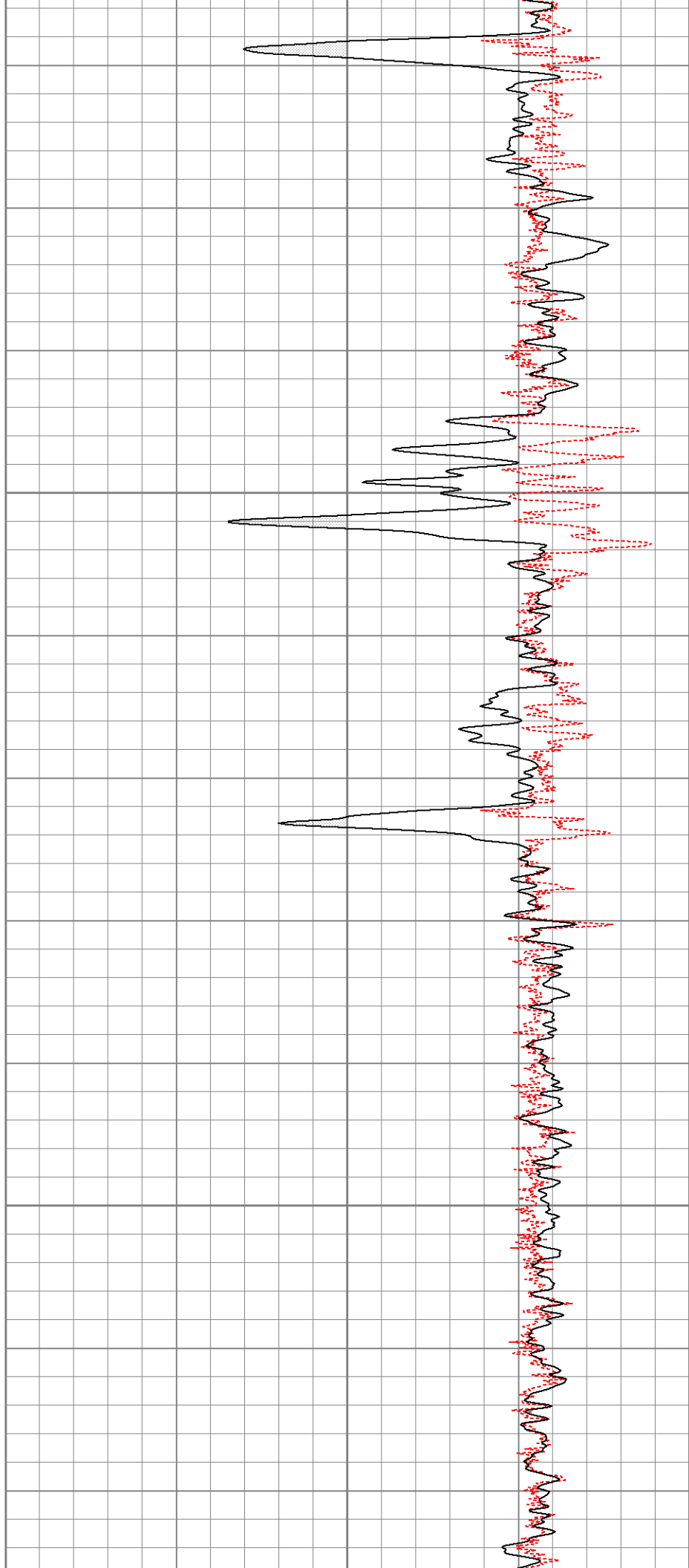
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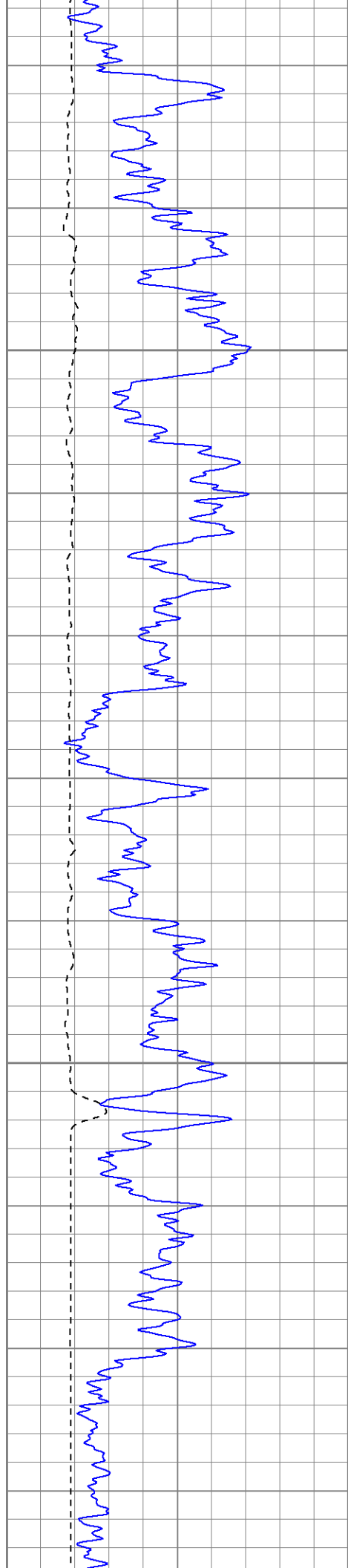




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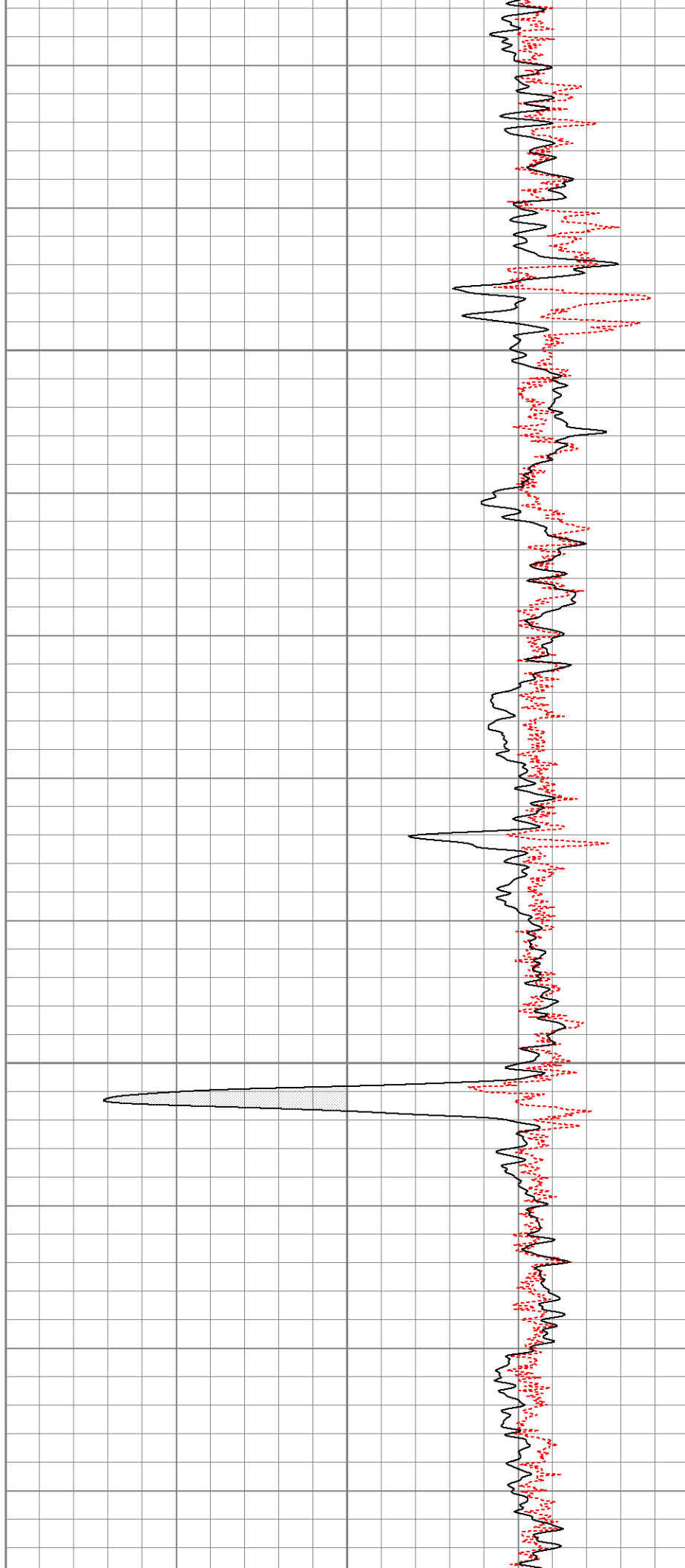
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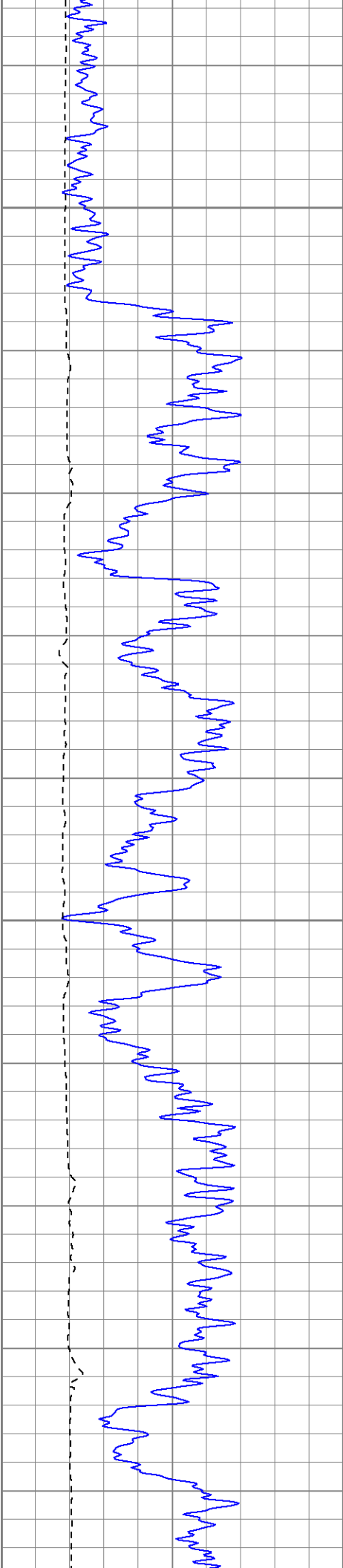




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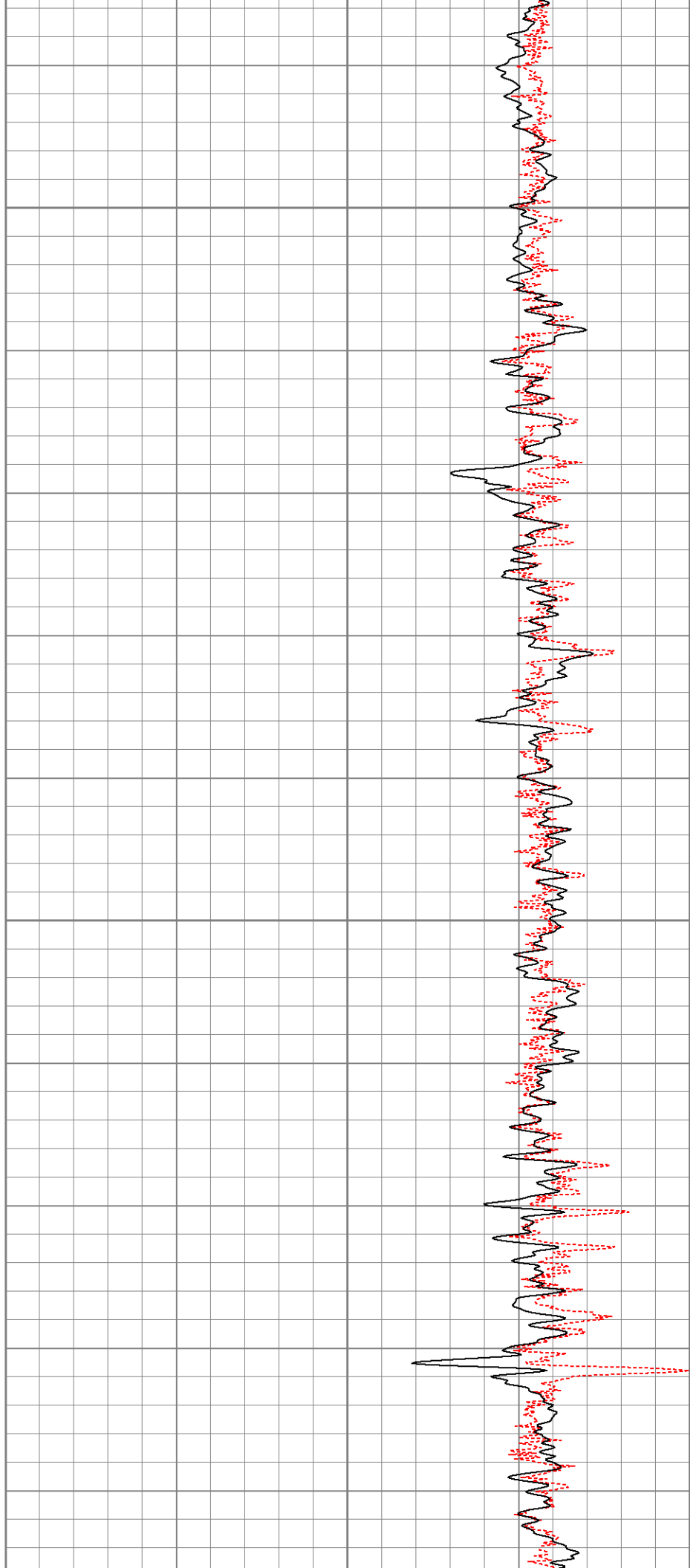
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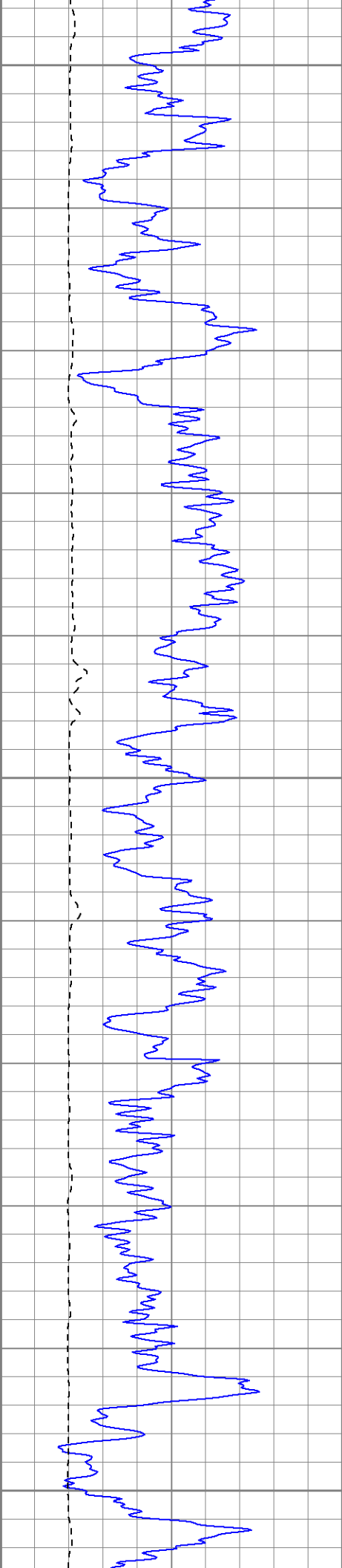




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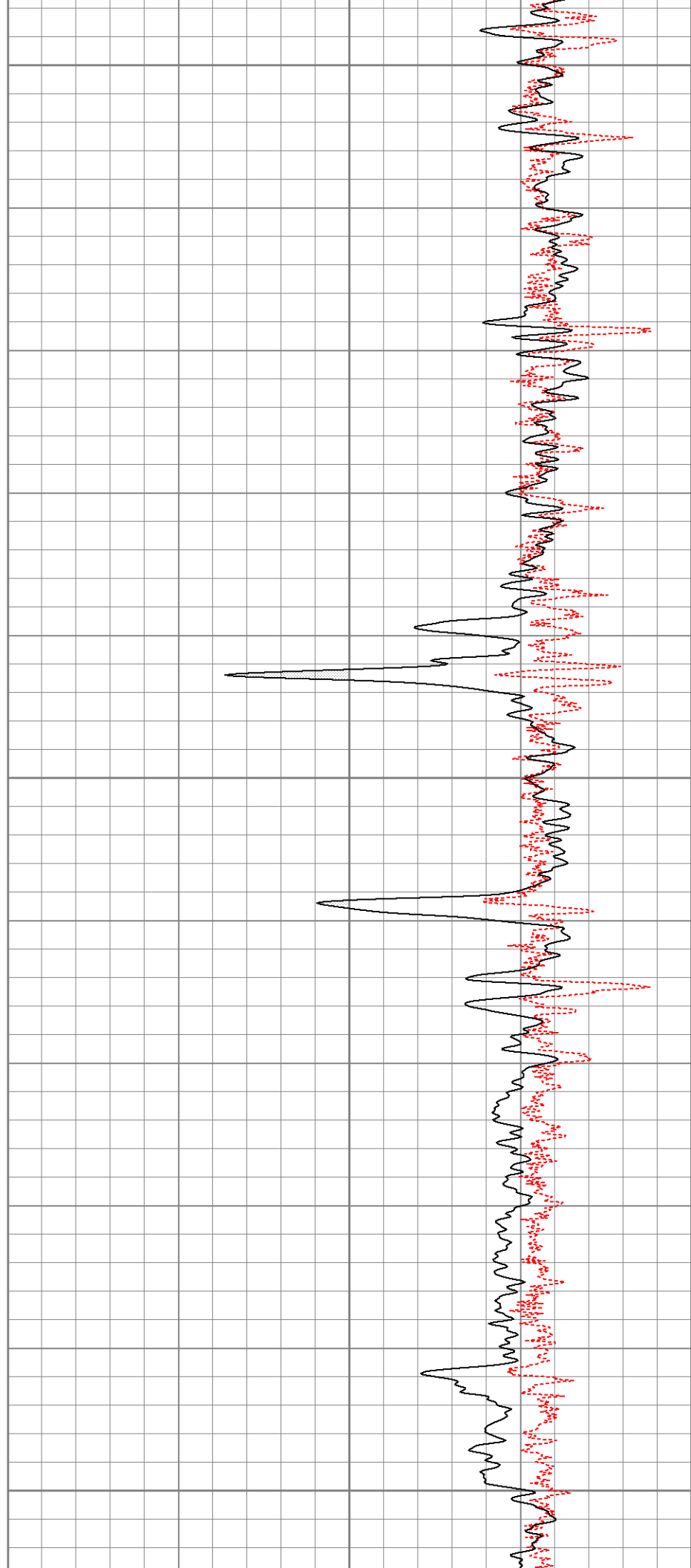


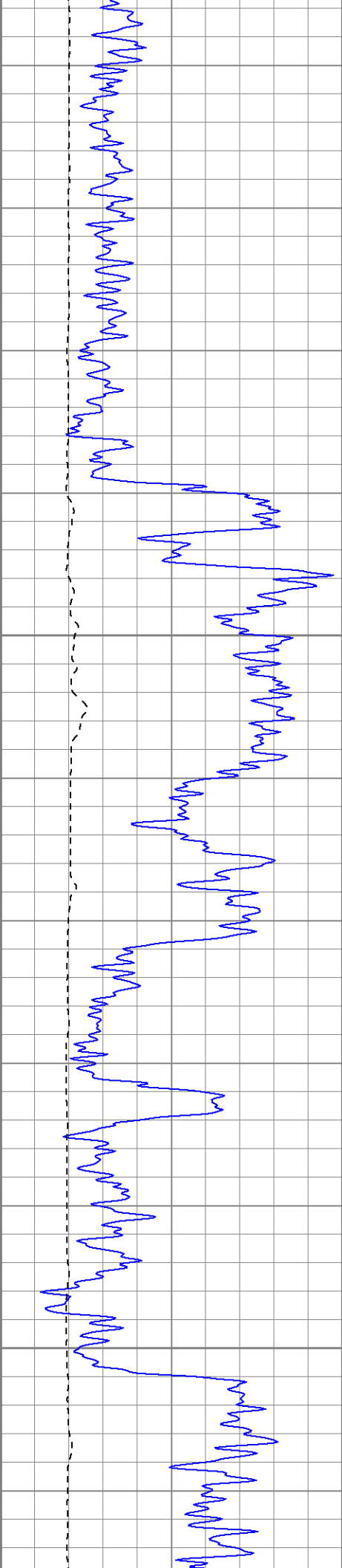


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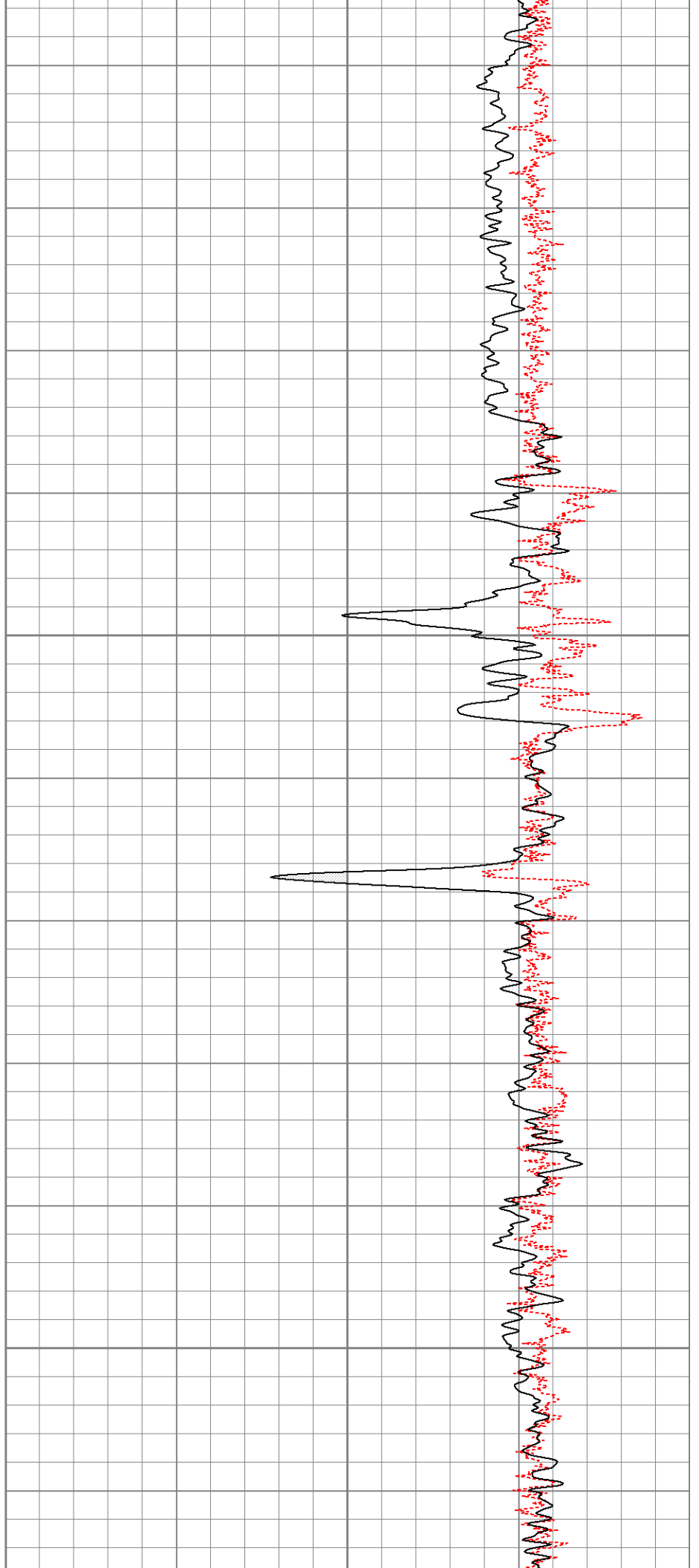
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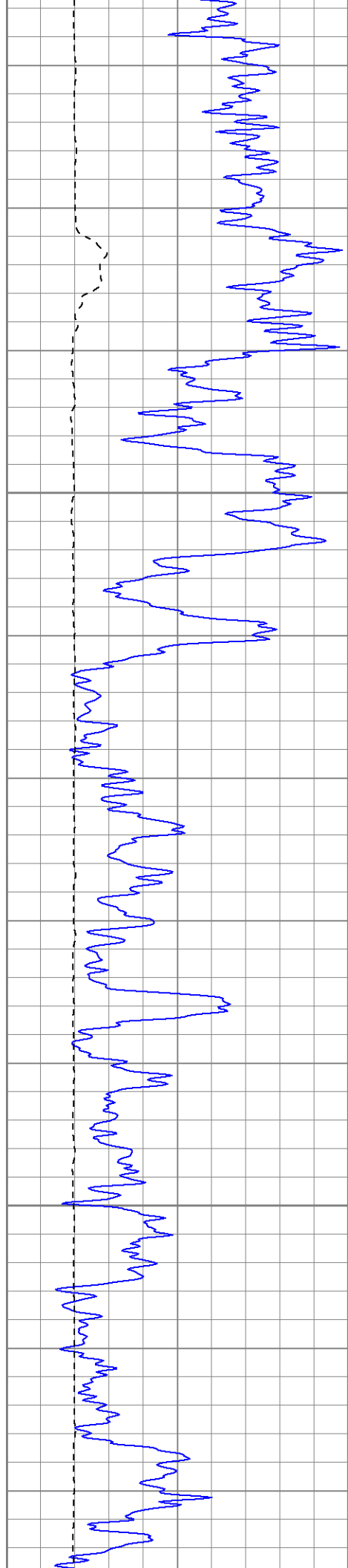




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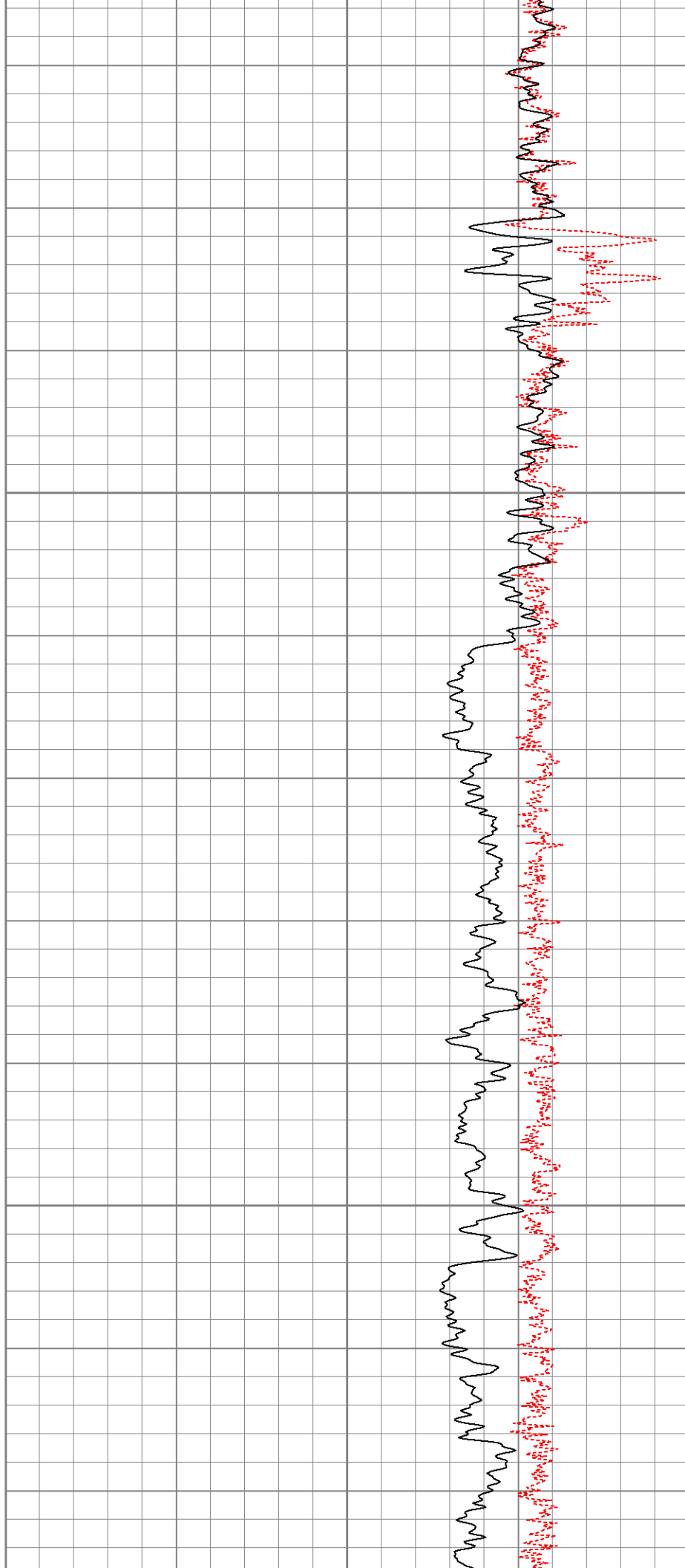
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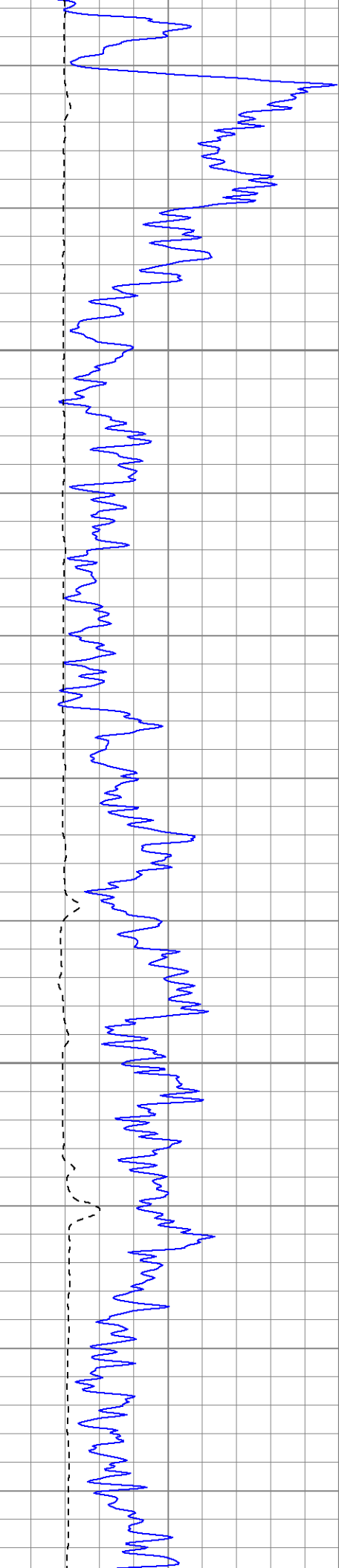




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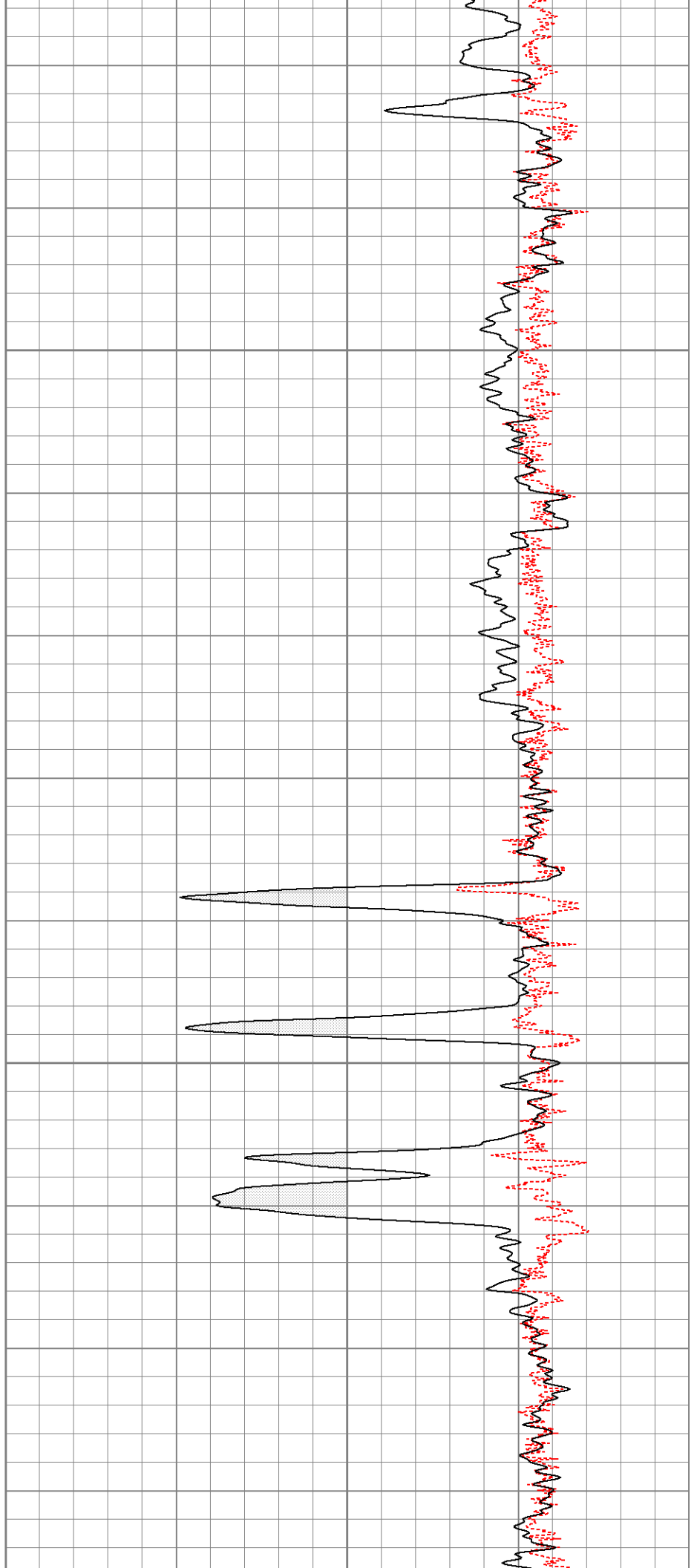
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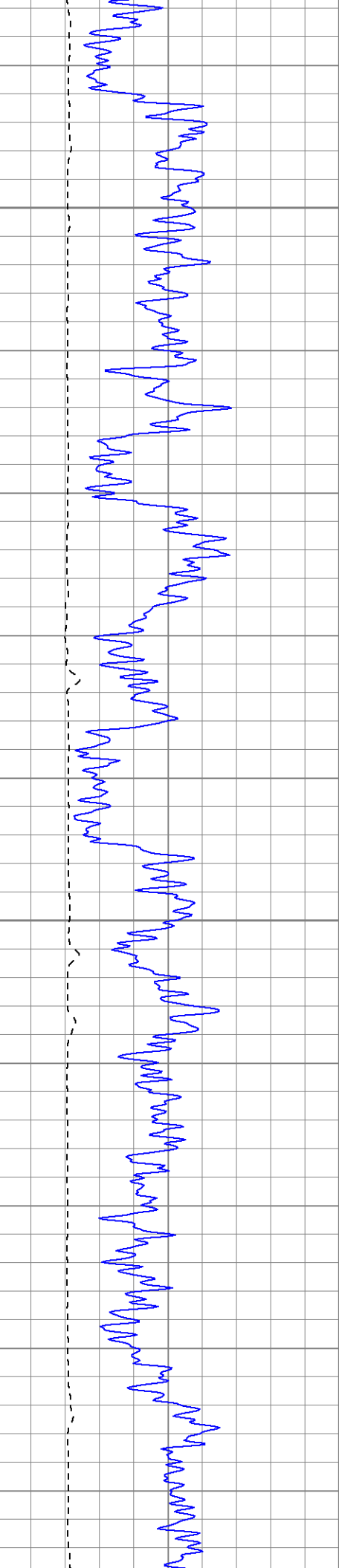




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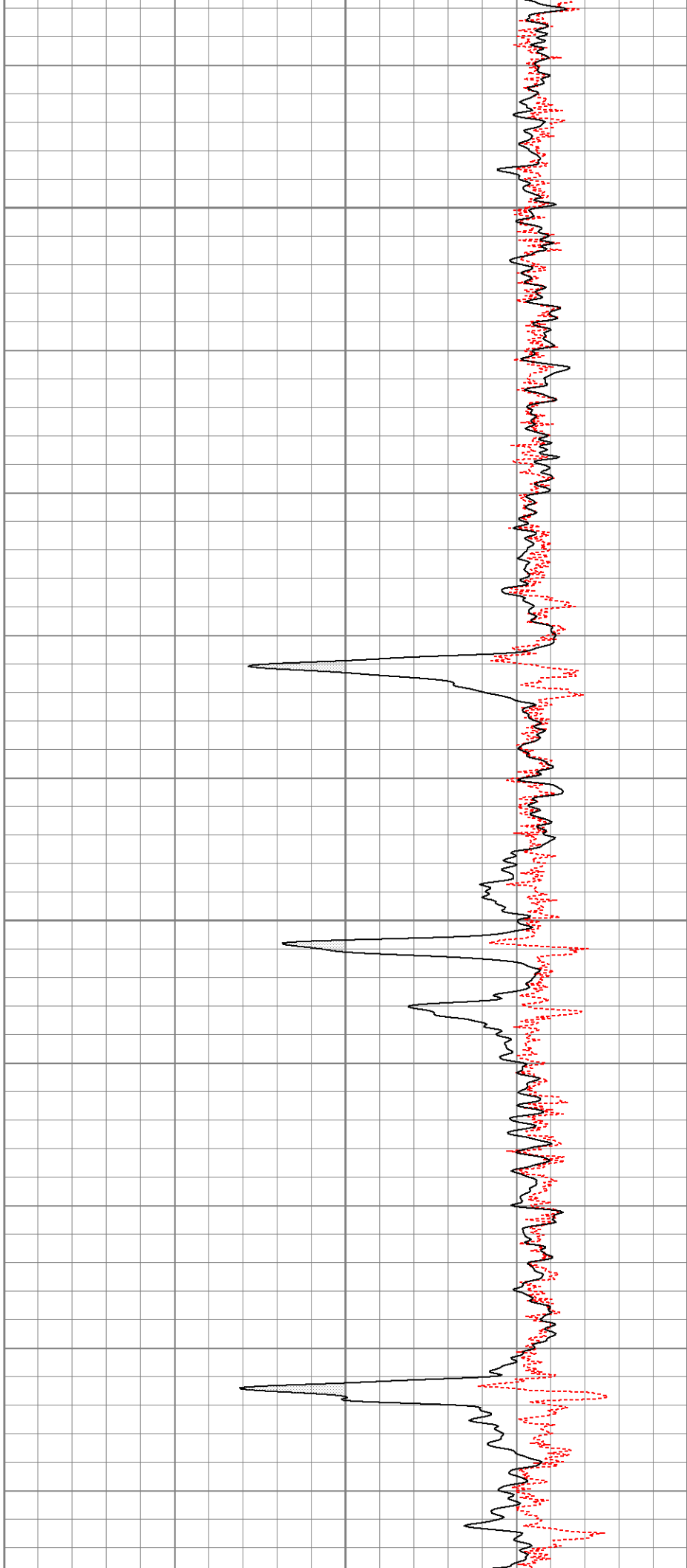
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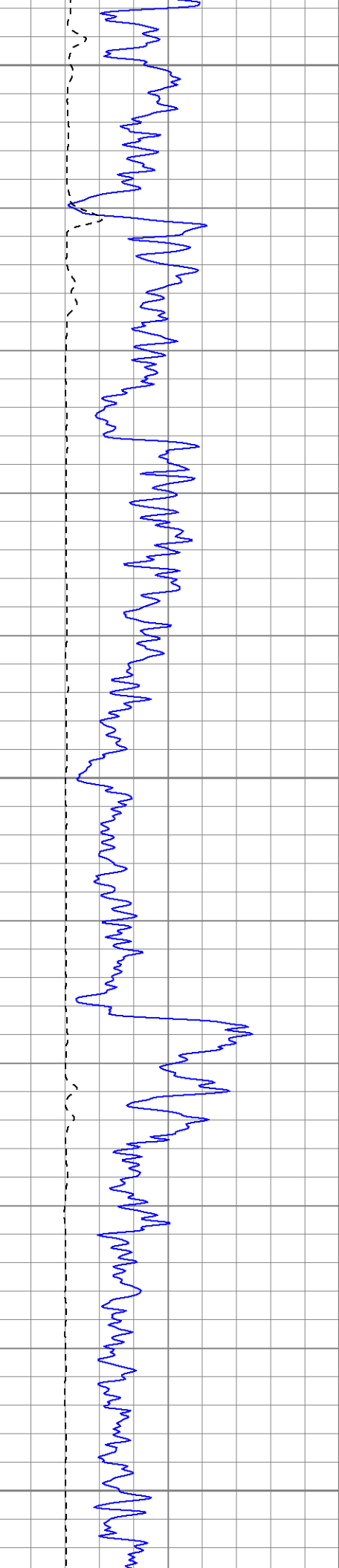




1950

2000

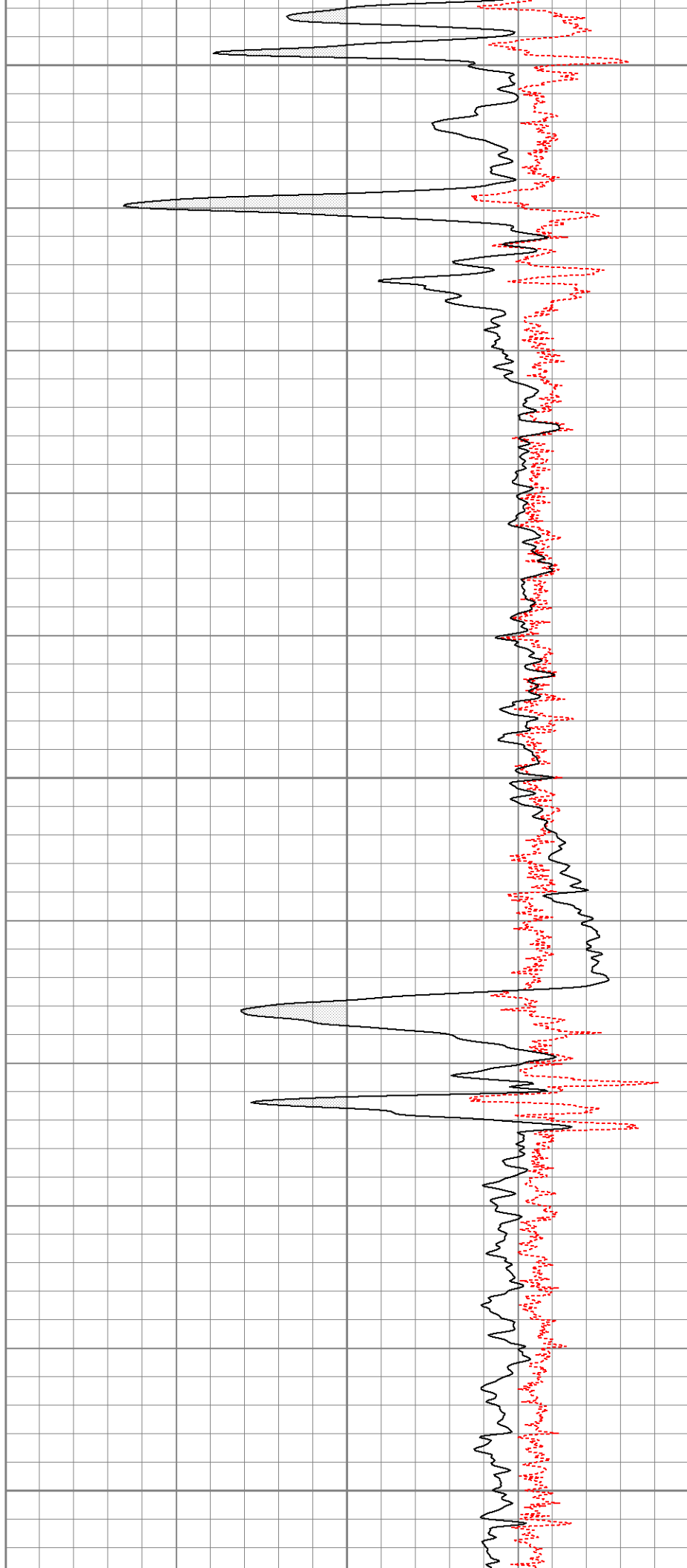


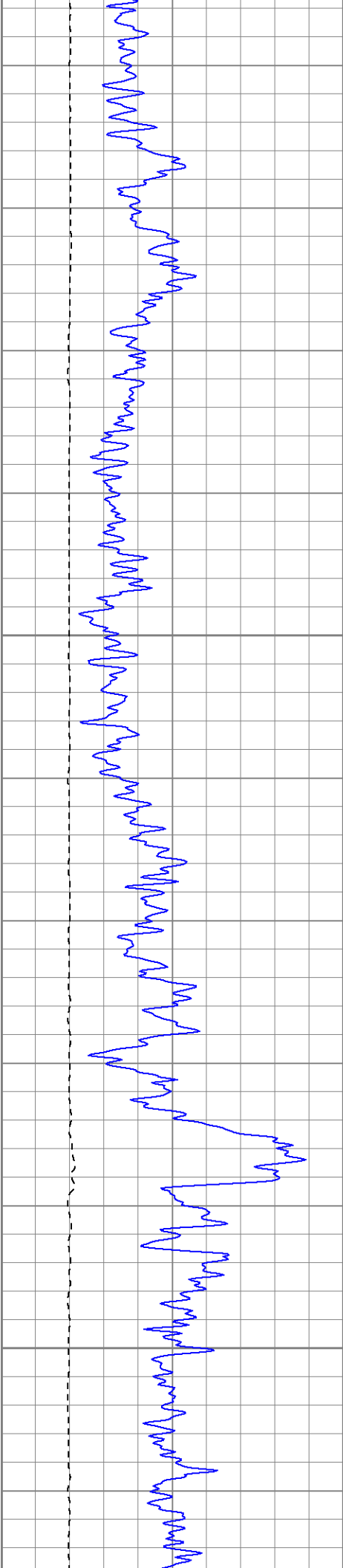


2050

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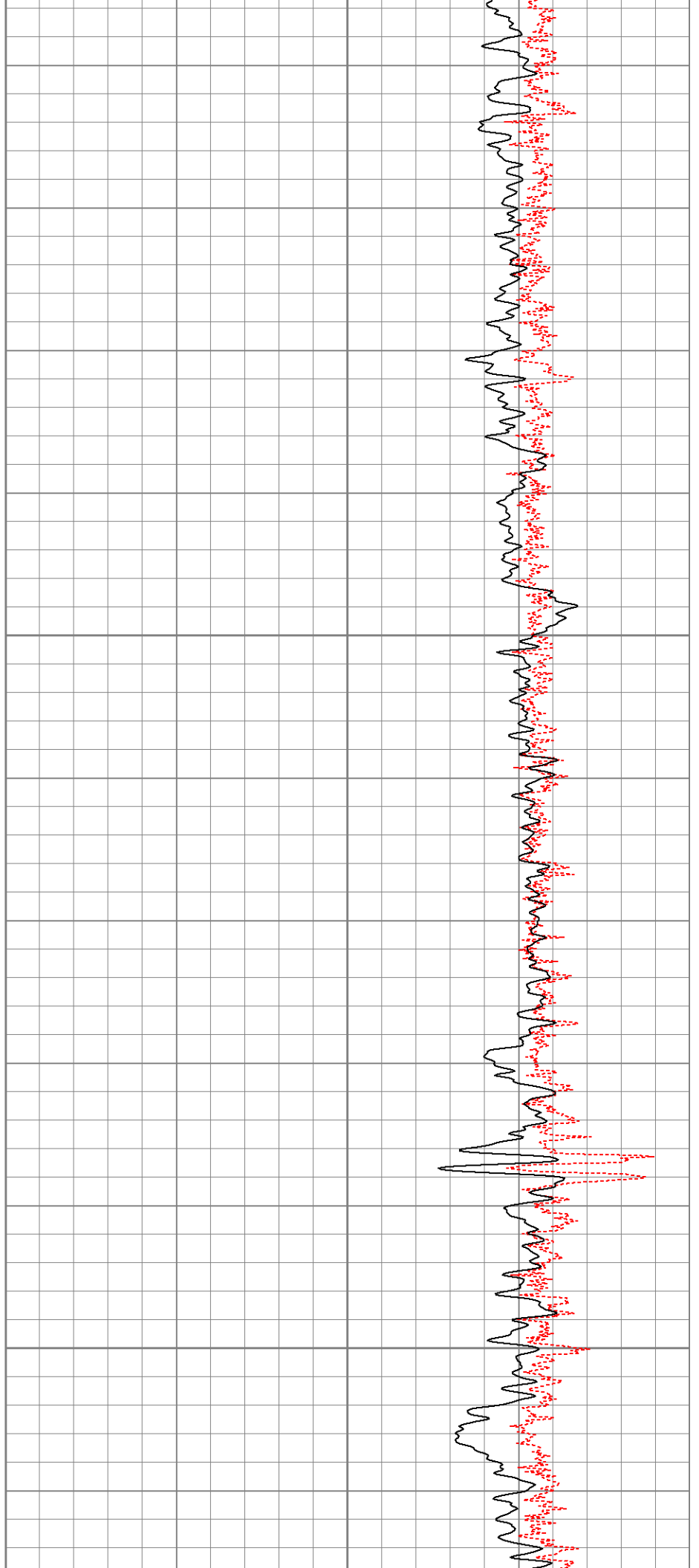
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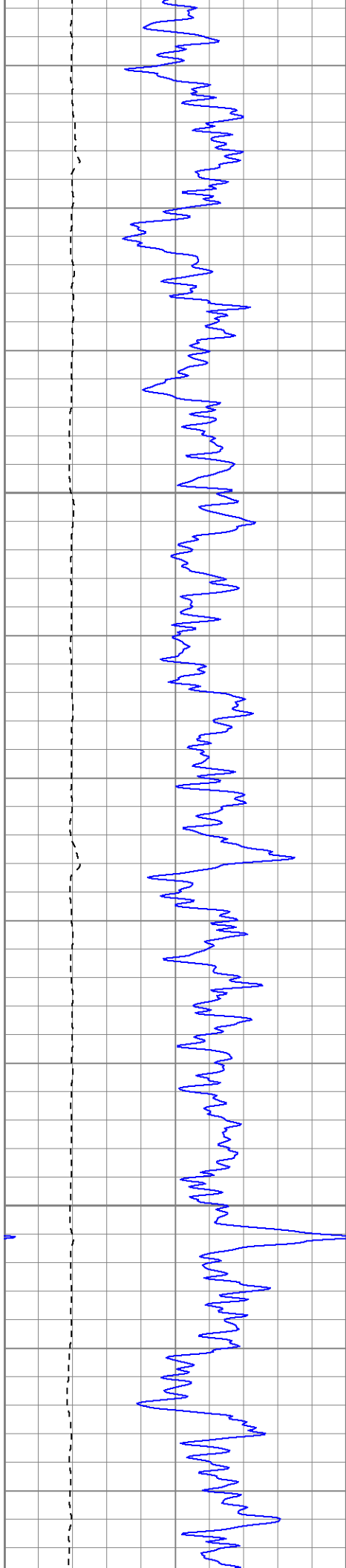




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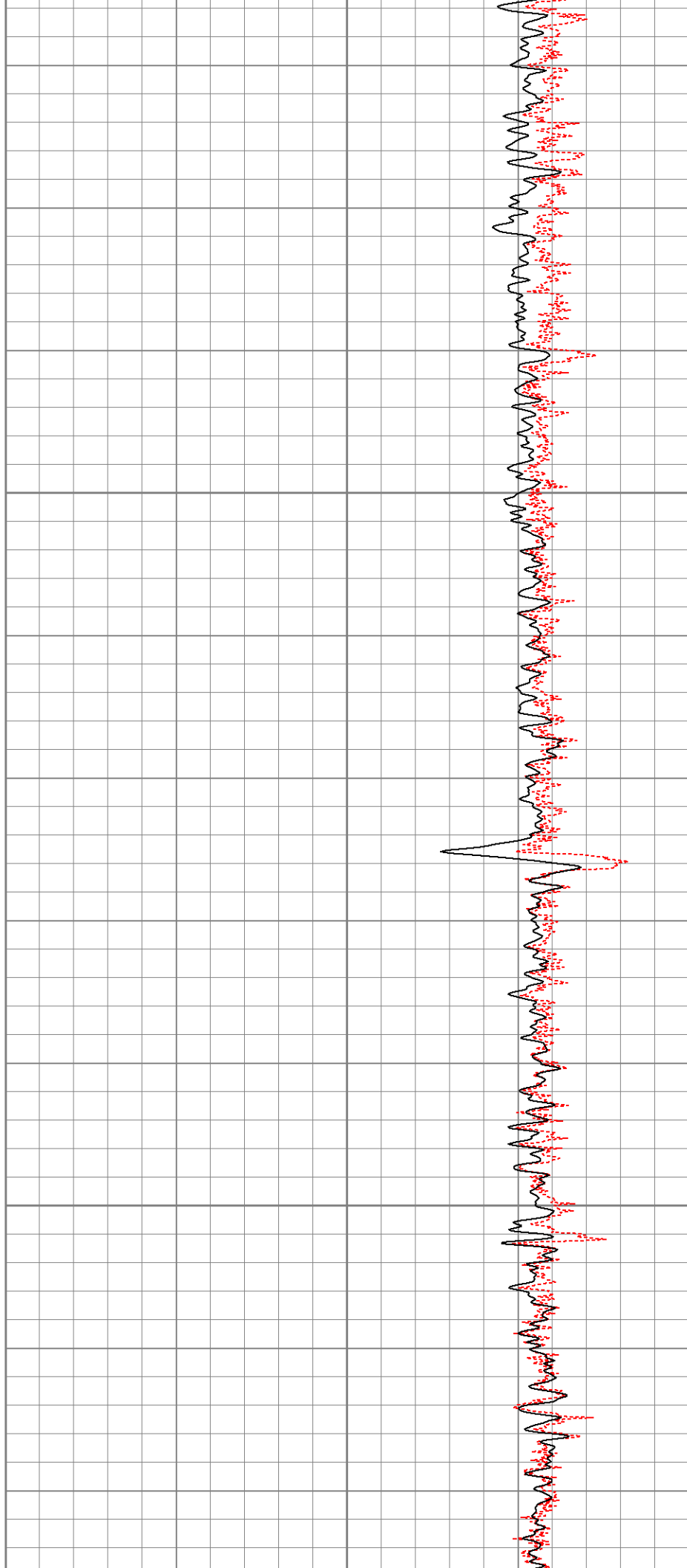
2250

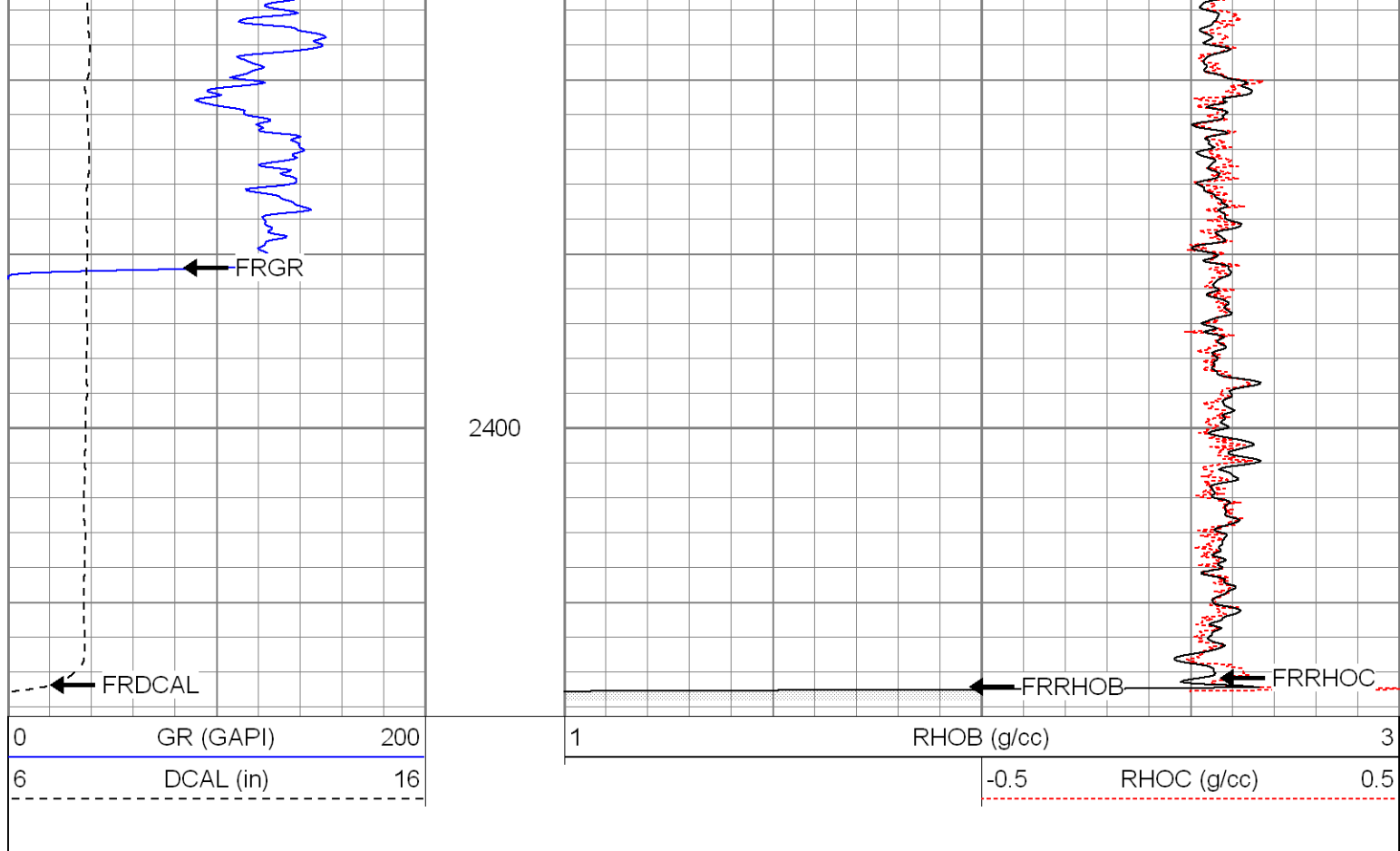




2300

2350





Calibration Report

Database File: xtohr361067.db
 Dataset Pathname: pass9
 Dataset Creation: Mon Apr 28 15:10:22 2008 by Log Open-Cased 070814

Compensated Density Calibration Report

Serial-Model: 2119-O
 Source / Verifier: csv-j12 / blks
 Master Calibration Performed: Fri Apr 04 09:12:47 2008

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	976.49	604.49	cps
Aluminum	2.590	g/cc	217.12	393.38	cps
Spine Angle = 74.05			Density/Spine Ratio = 0.563		
	Size		Reading		
Small Ring	8.40	in	3.35	V	
Large Ring	14.00	in	7.70	V	

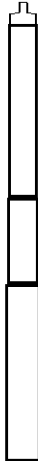


Gamma Ray Calibration Report

Serial Number: 2119
 Tool Model: O
 Performed: Thu Apr 17 11:18:13 2008

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps
Neutron Calibration Report		
Serial Number:	5145	
Tool Model:	G	
Performed:	Fri Apr 04 09:50:09 2008	
Calibrator Value:	1200	NAPI
Calibrator Reading:	1700	cps
Sensitivity:	0.705882	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	12.47		None	0.75	1.50	5.00
			NEU-G (5145) Gearhart Epithermal	5.65	3.50	85.00
GR	7.02		GR-O (2119) Oilex	2.83	3.63	74.00
LSD	1.51		CDL-O (2119) Oilex	5.77	4.00	201.00
DCAL	1.17					
SSD	0.96					
Dataset: xtohr361067.db: field/well/run1/pass9						
Total Length: 15.00 ft						
Total Weight: 365.00 lb						
O.D. 4.00 in						