



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

COMPENSATED DENSITY/NEUTRON LOG

Company XTO Energy Inc.
Well Hill Ranch 01-02
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09560 00

820' FNL & 1919' FEL

DIL

SEC 01 TWP 35S RGE 68W

Permanent Datum Ground Level Elevation 8627'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 8627'

Date	3-12-09	3-13-09	
Run Number	One	Two	
Depth Driller	2637'	2637'	
Depth Logger	2014'	2284'	
Bottom Logged Interval	1991'	2261'	
Top Log Interval	Surface Casing	Surface Casing	
Casing Driller	8 5/8" @ 450'	8 5/8" @ 450'	
Casing Logger	452'	452'	
Bit Size	7 7/8"	7 7/8"	
Type Fluid in Hole	Water	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	9:00 A.M.	9:00 A.M./3-12-09	
Time Logger on Bottom	12:00 P.M.	9:30 A.M./3-13-09	
Maximum Recorded Temperature	90 DEG F	96 DEG F	
Equipment Number	T697	T697	
Location	Trinidad	Trinidad	
Recorded By	J. Cappellucci	J. Cappellucci	
Witnessed By	Mr. Dalton King	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

Neutron Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Multiple Passes Ran
Merged all Data

Well Directions:

Lorencito, take door # 6 to top of hill, stay on main road past trash dumpster,
stay straight, at Y stay left, stay on main road, at beige tank stay right,
at big rocks take left, end on third location on right.

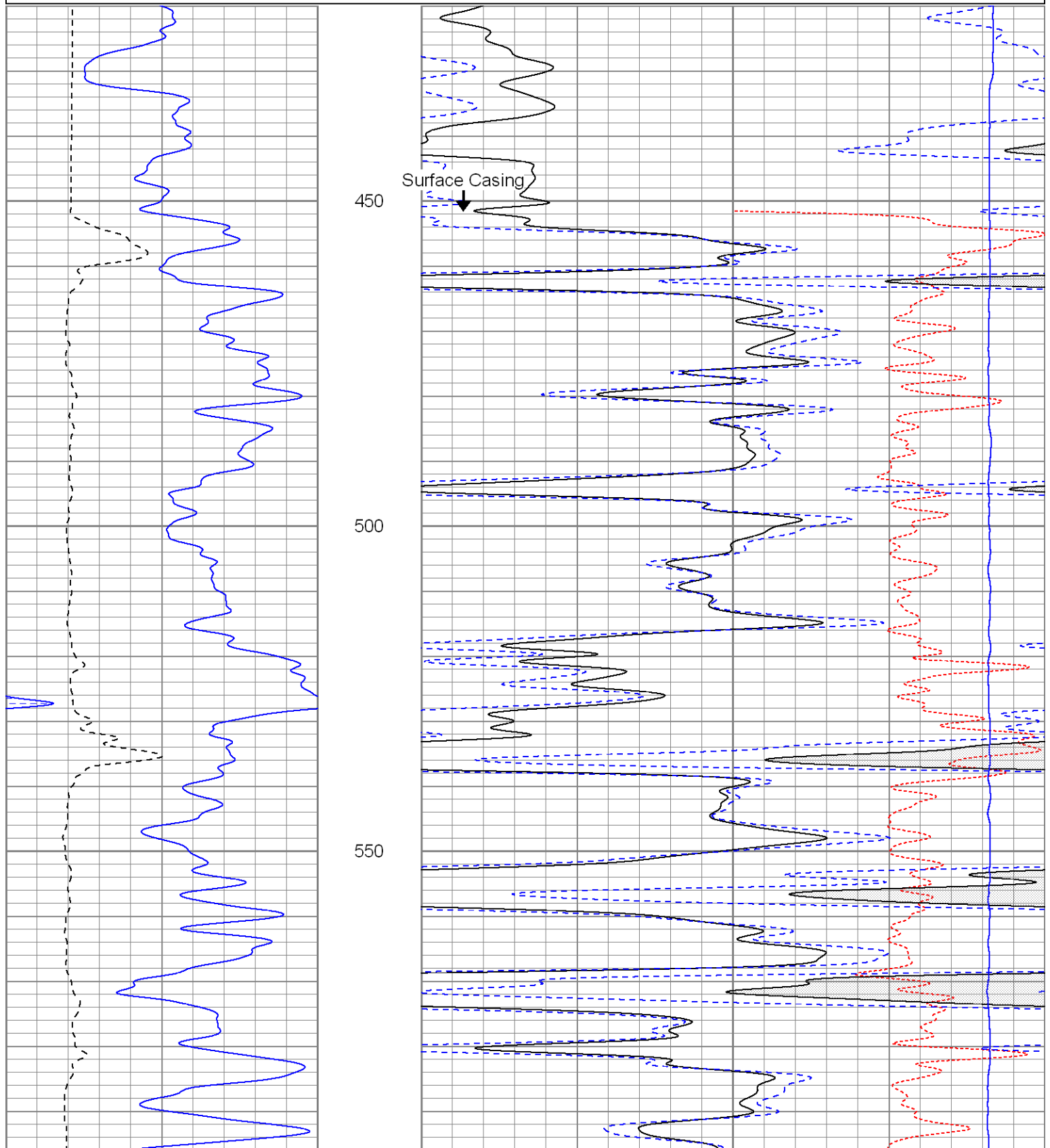


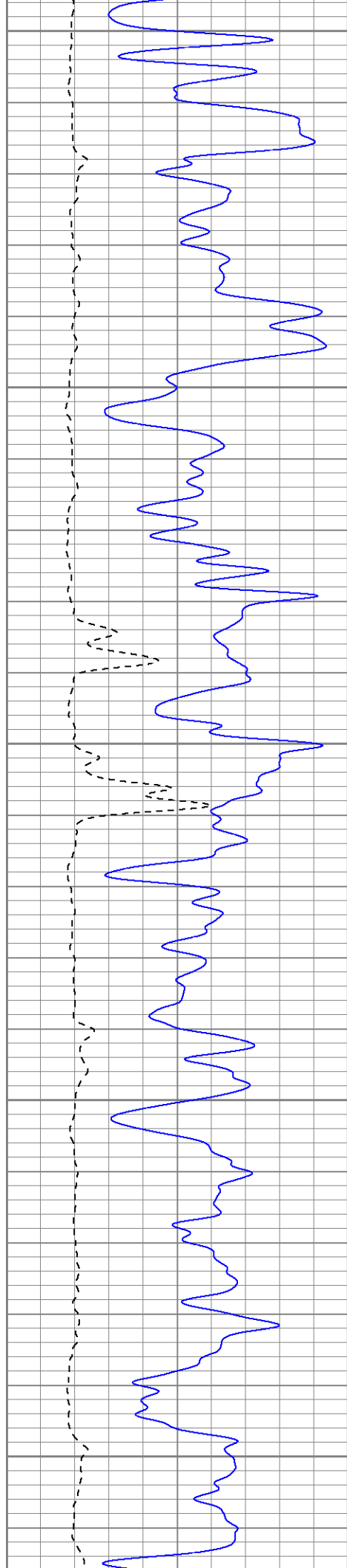
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Main Merged Pass

Database File: xtohr0102.db
Dataset Pathname: pass2.4
Presentation Format: cdl
Dataset Creation: Fri Mar 13 11:18:03 2009
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
			30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			7000	LTEN (lb)	0





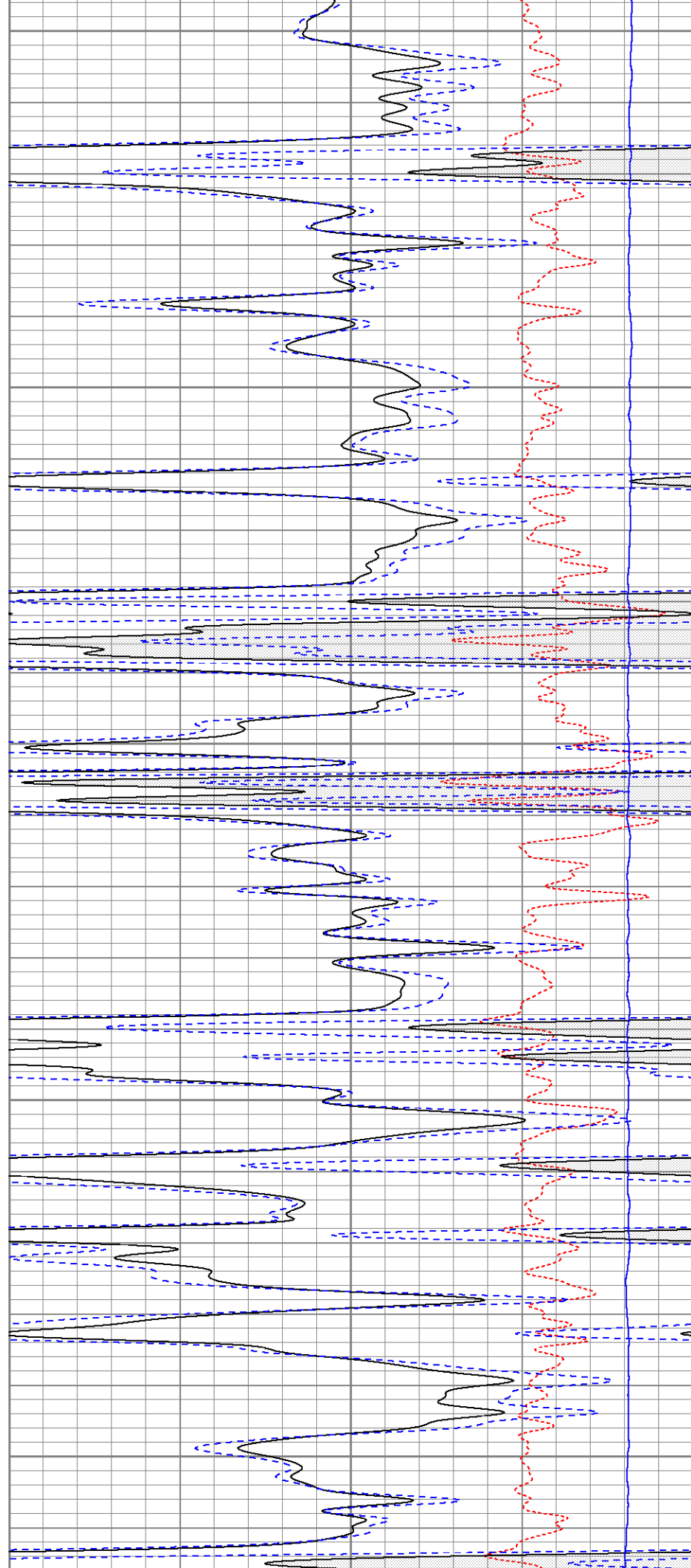
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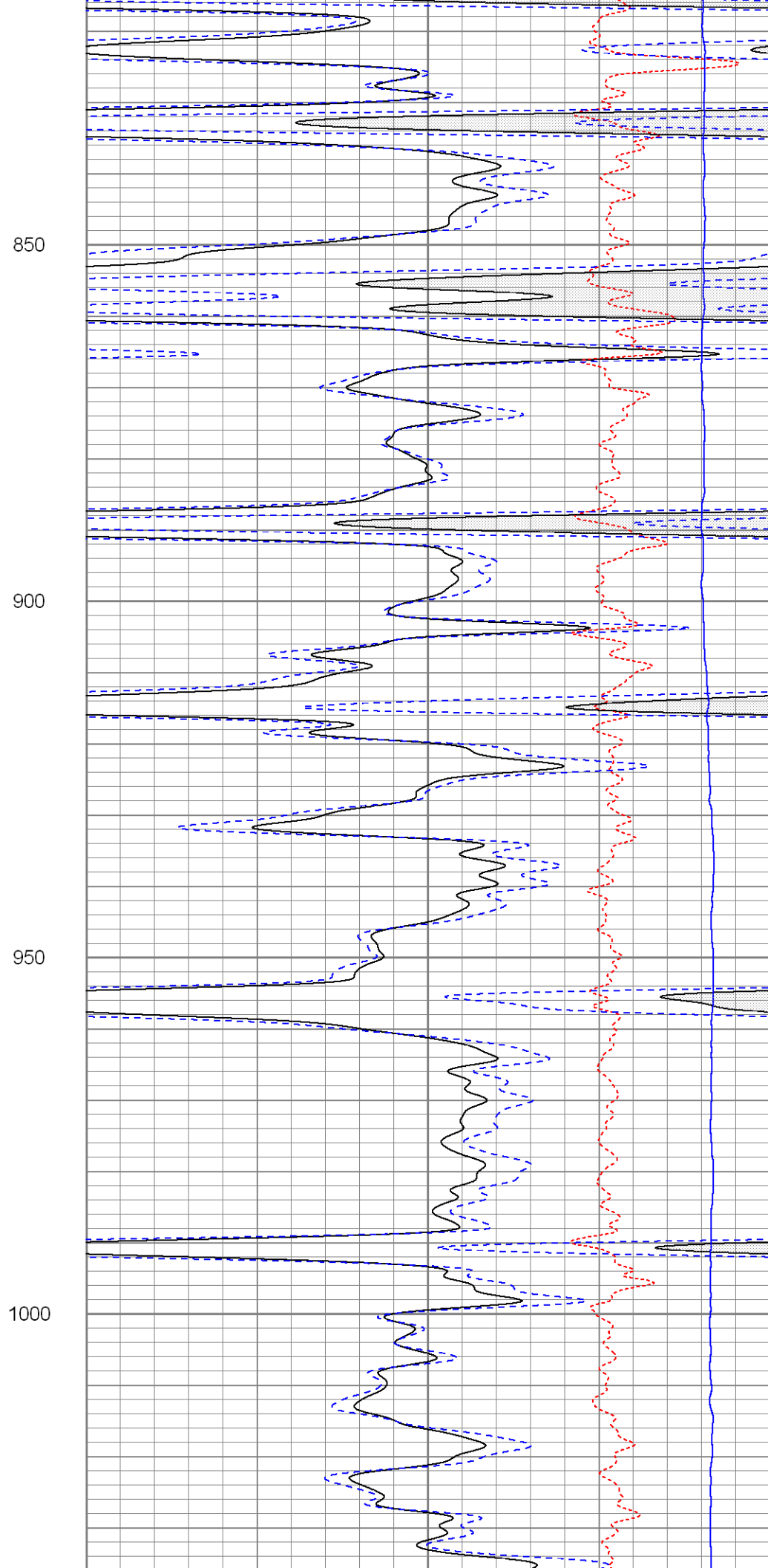
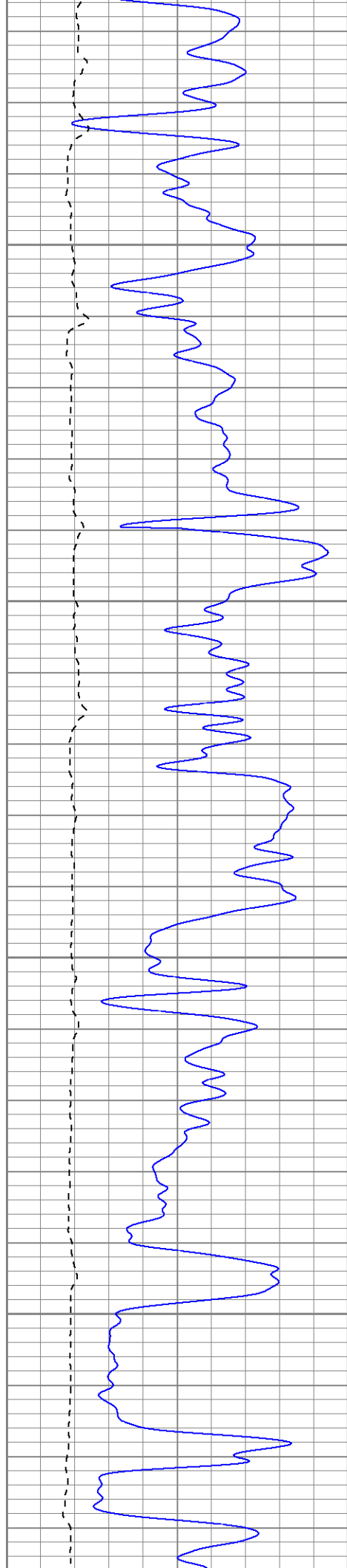
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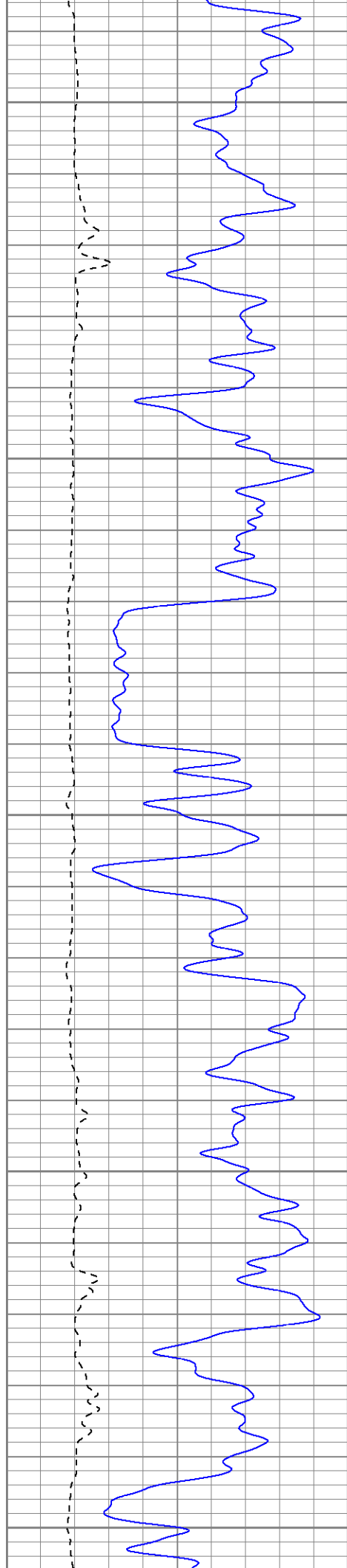
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750

800







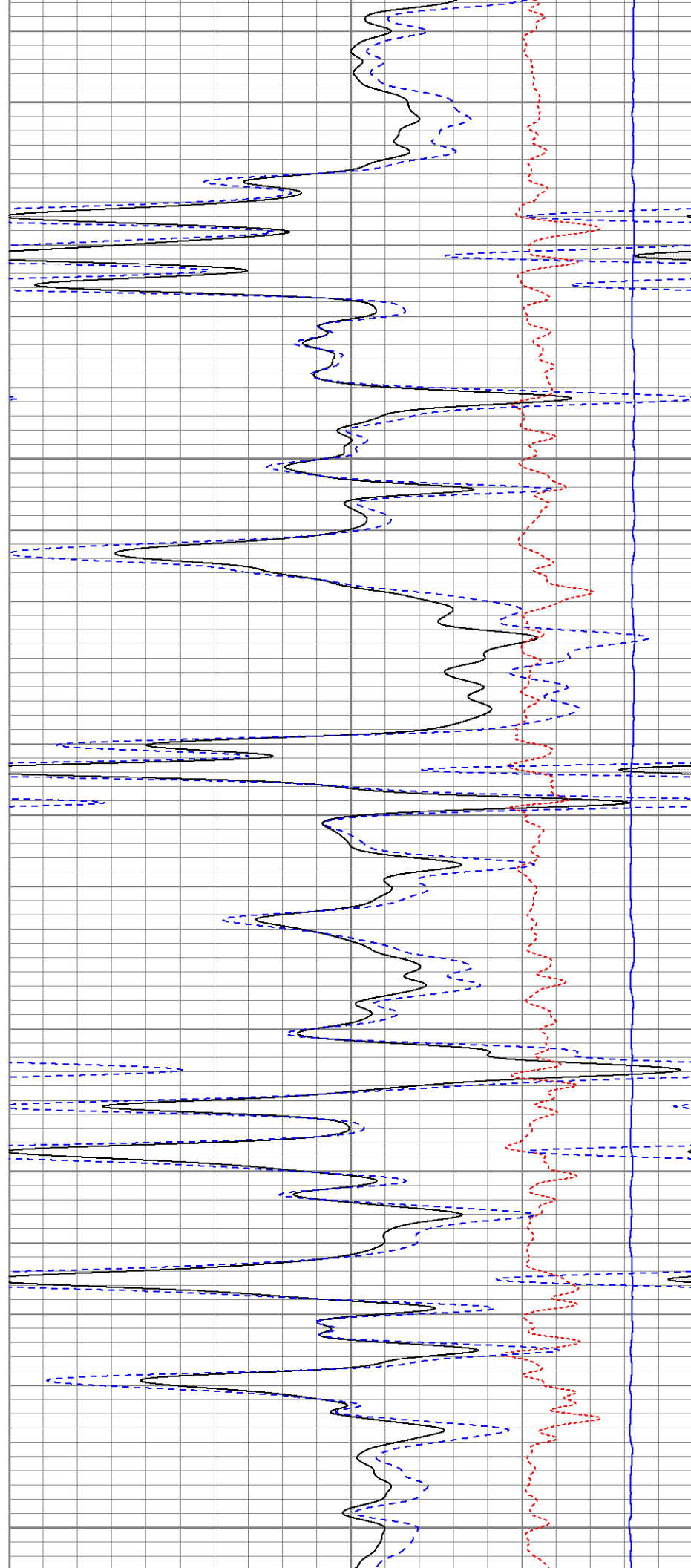
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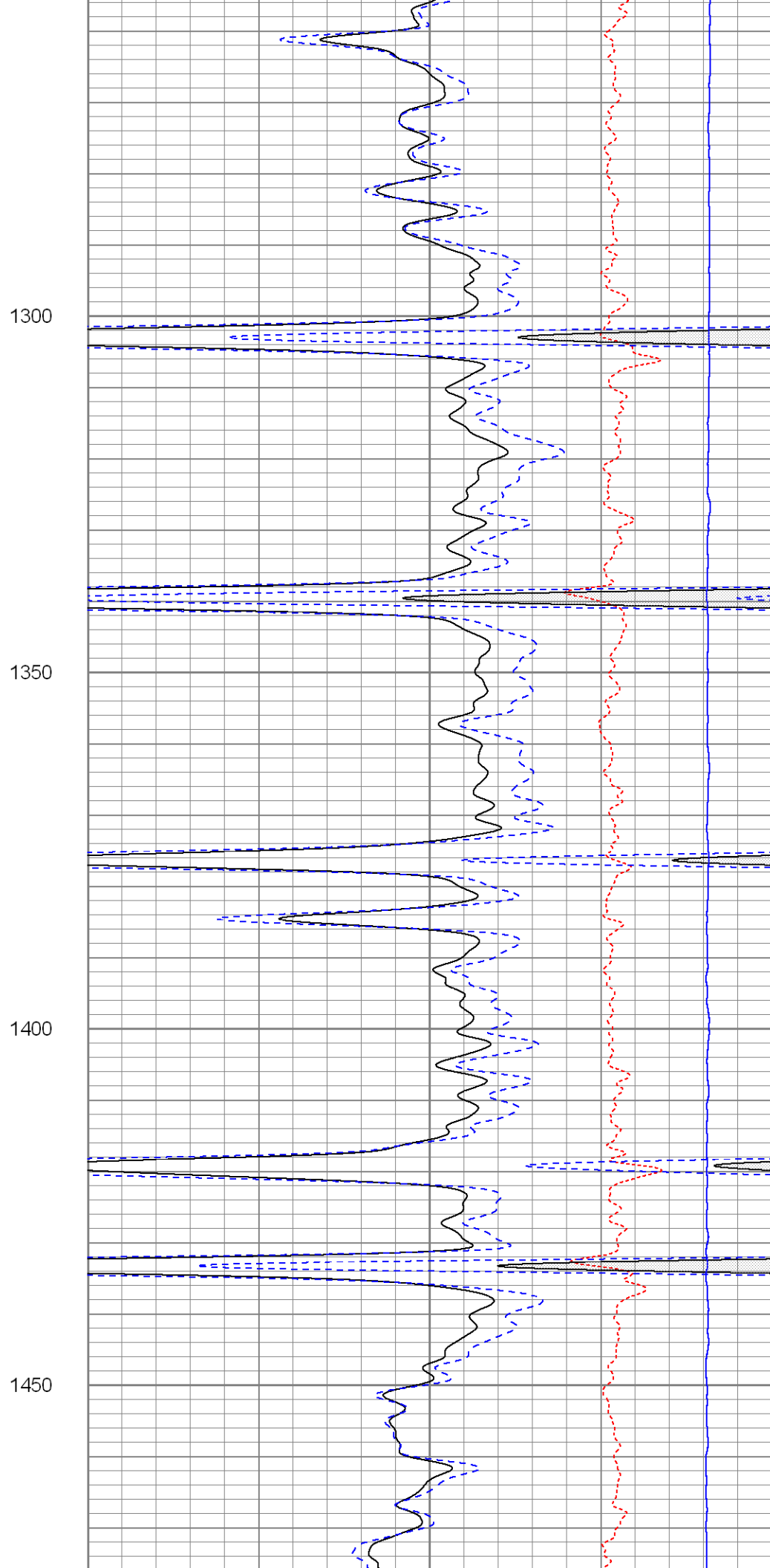
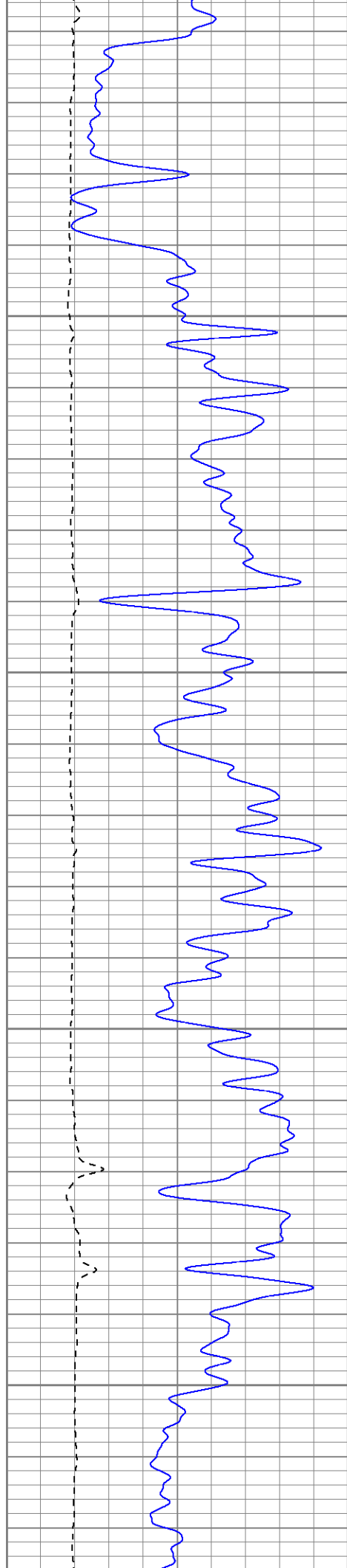
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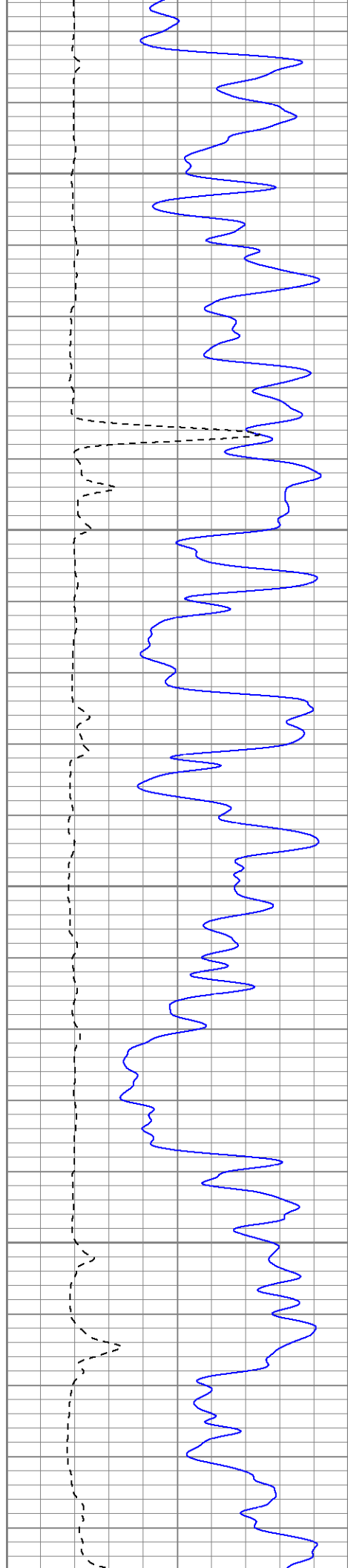
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1250





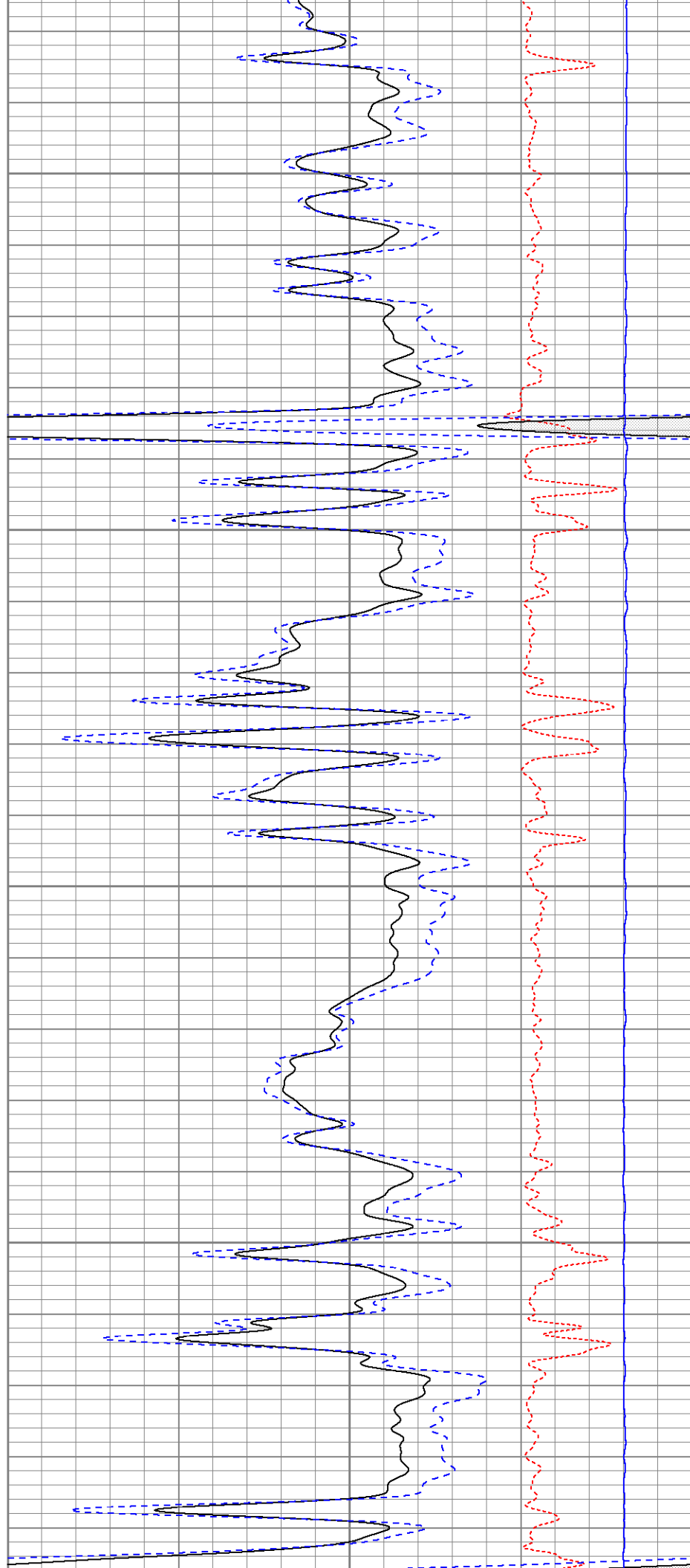


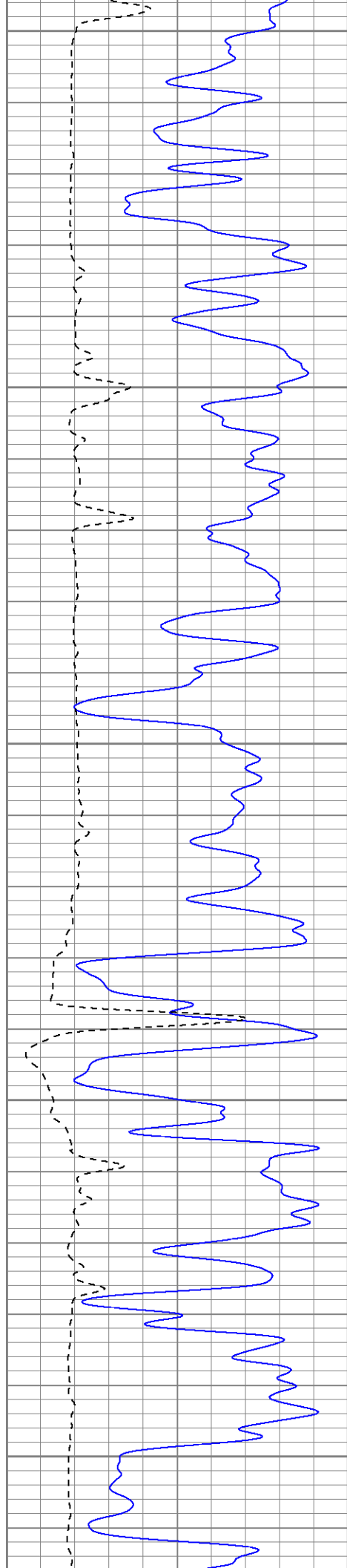
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1550

1600

1650





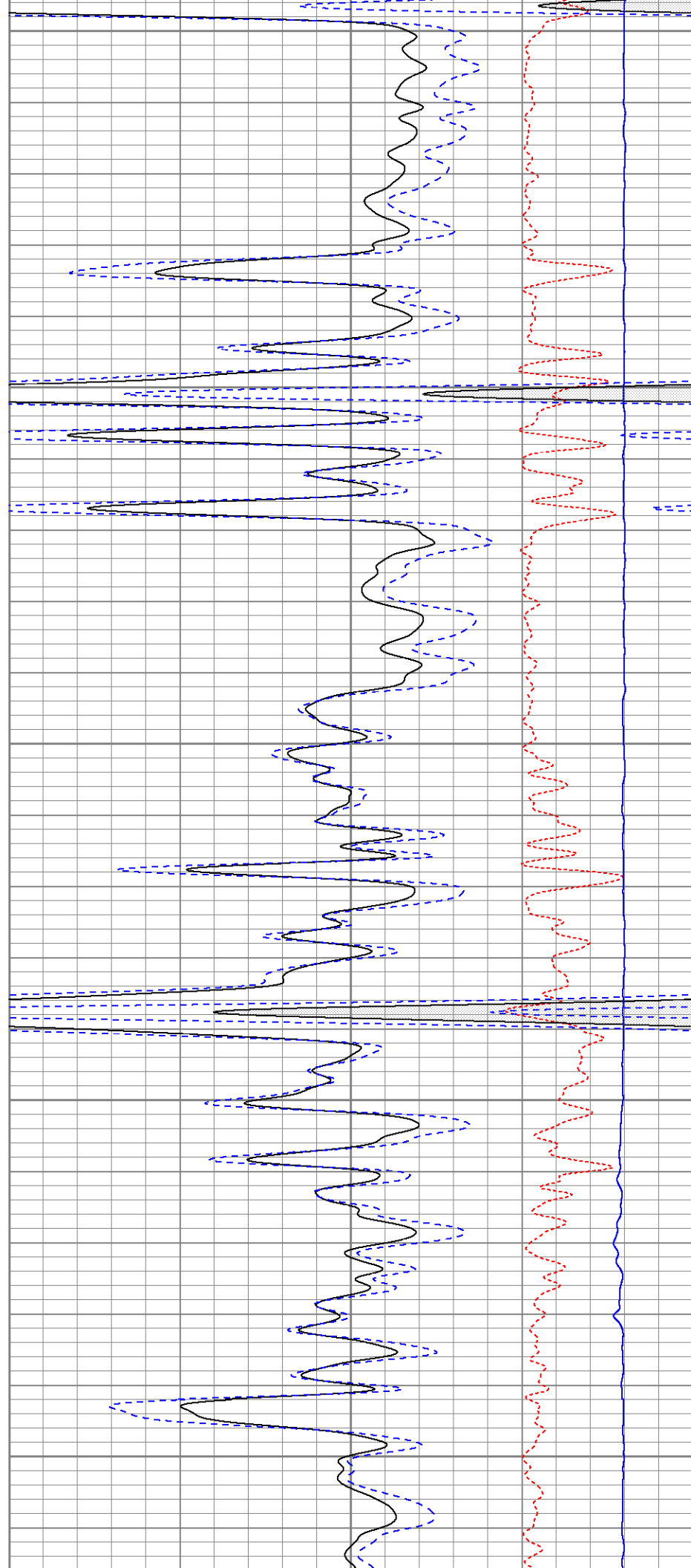
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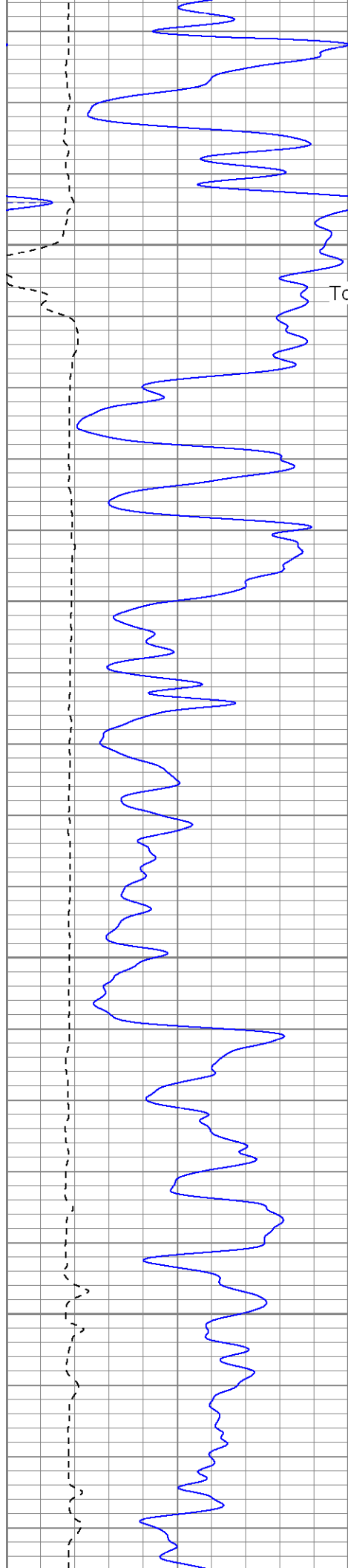
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1800

1850

1900





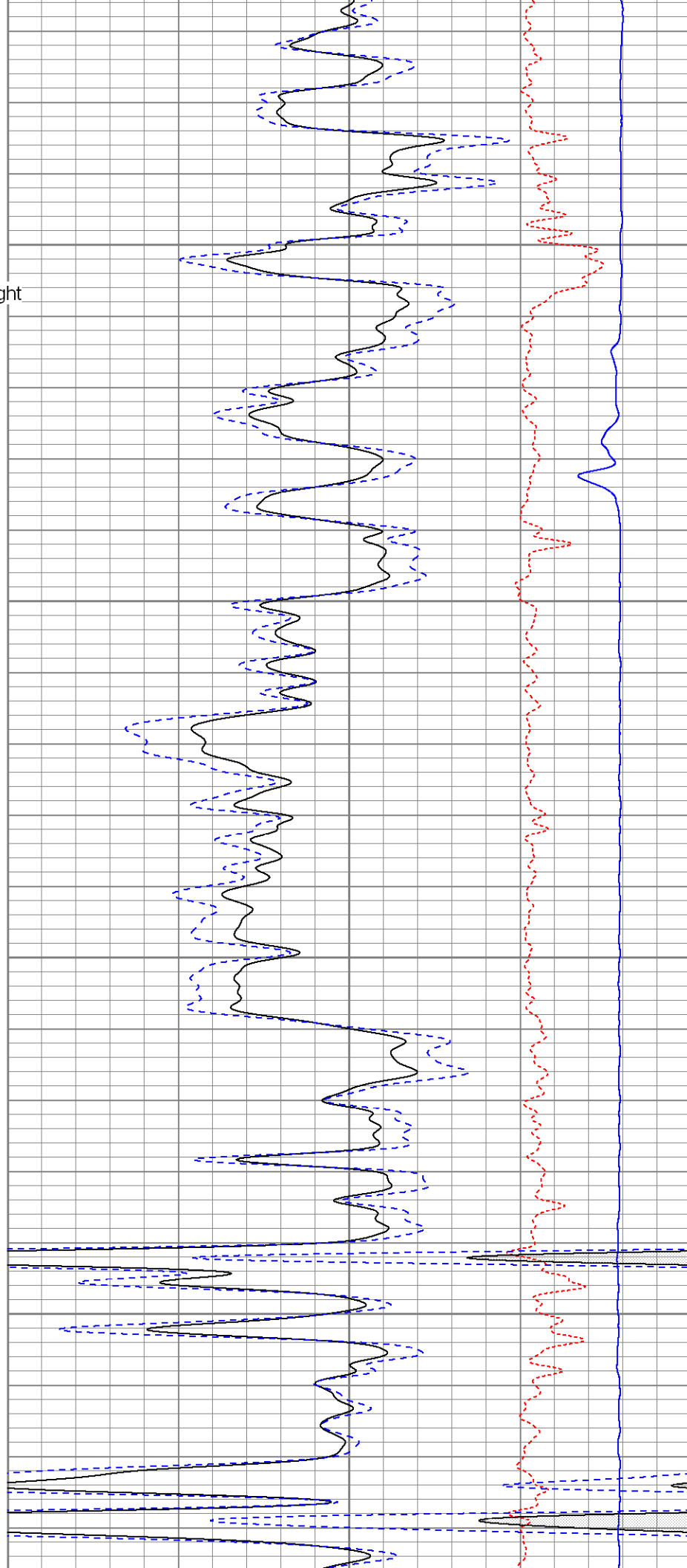
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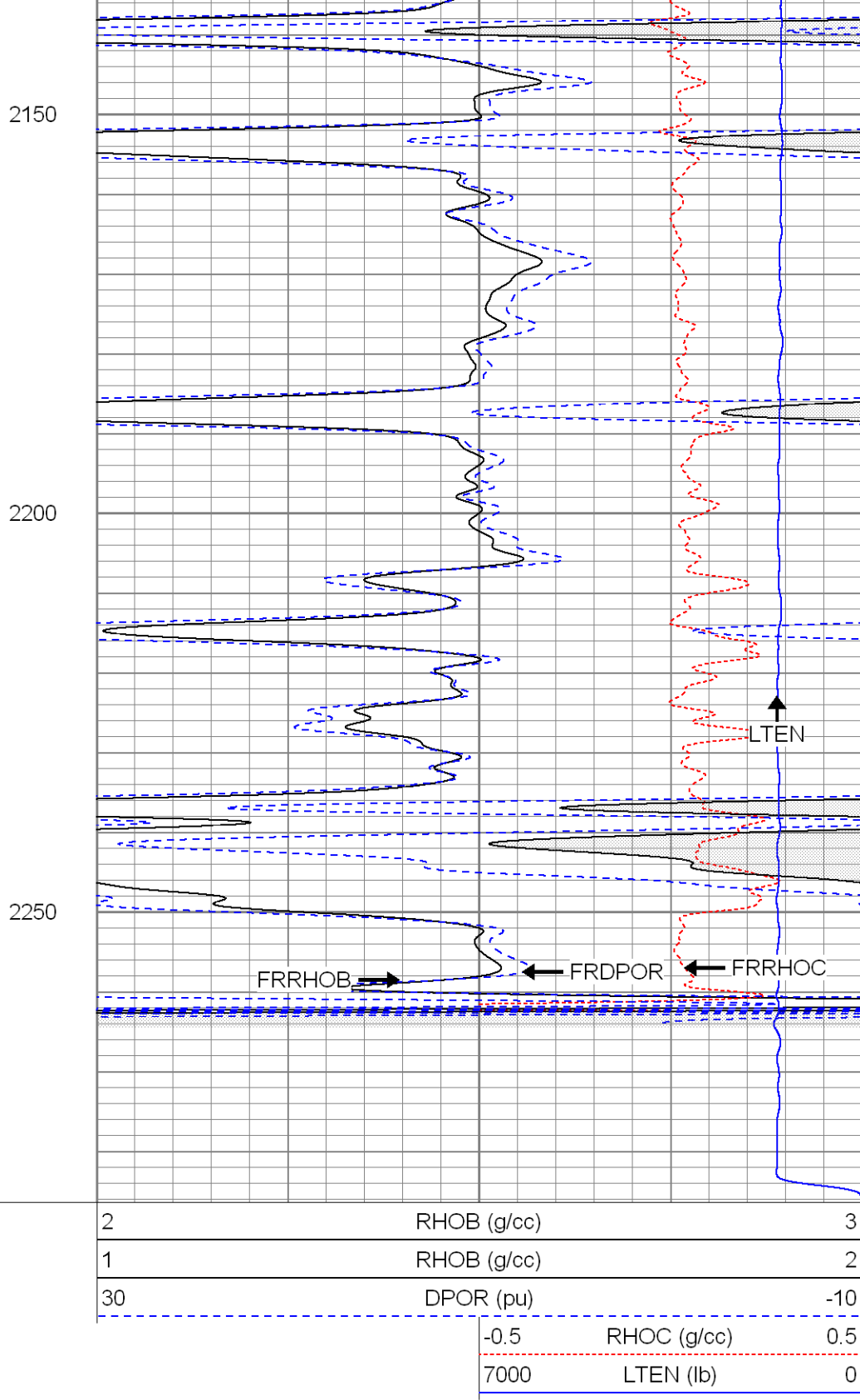
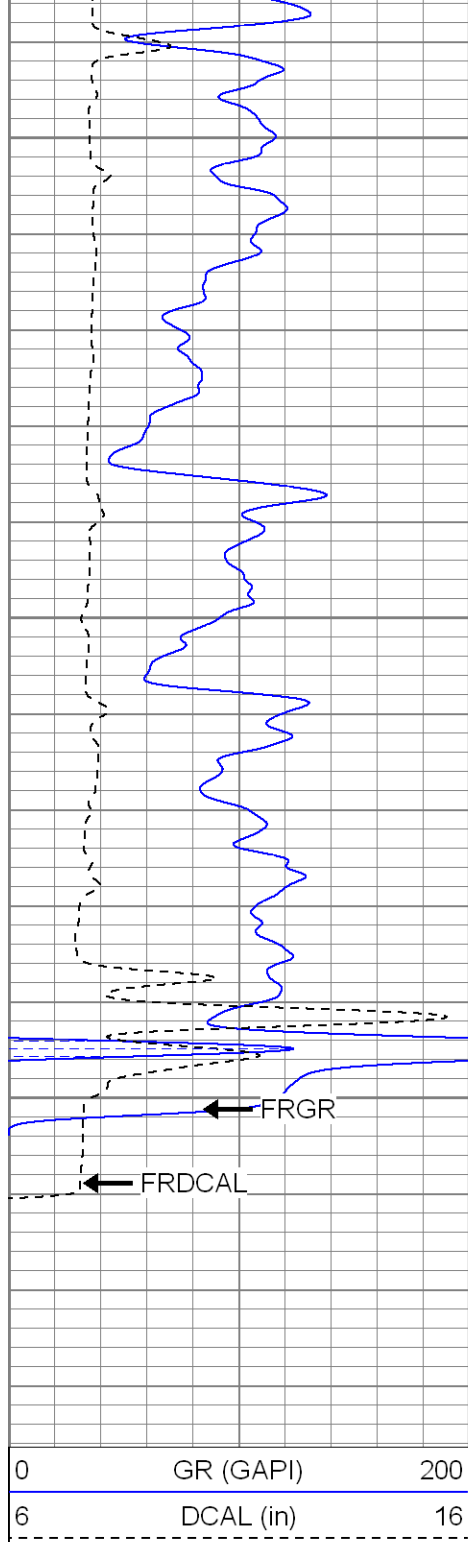
Tool Pulled Tight

2000

2050

2100





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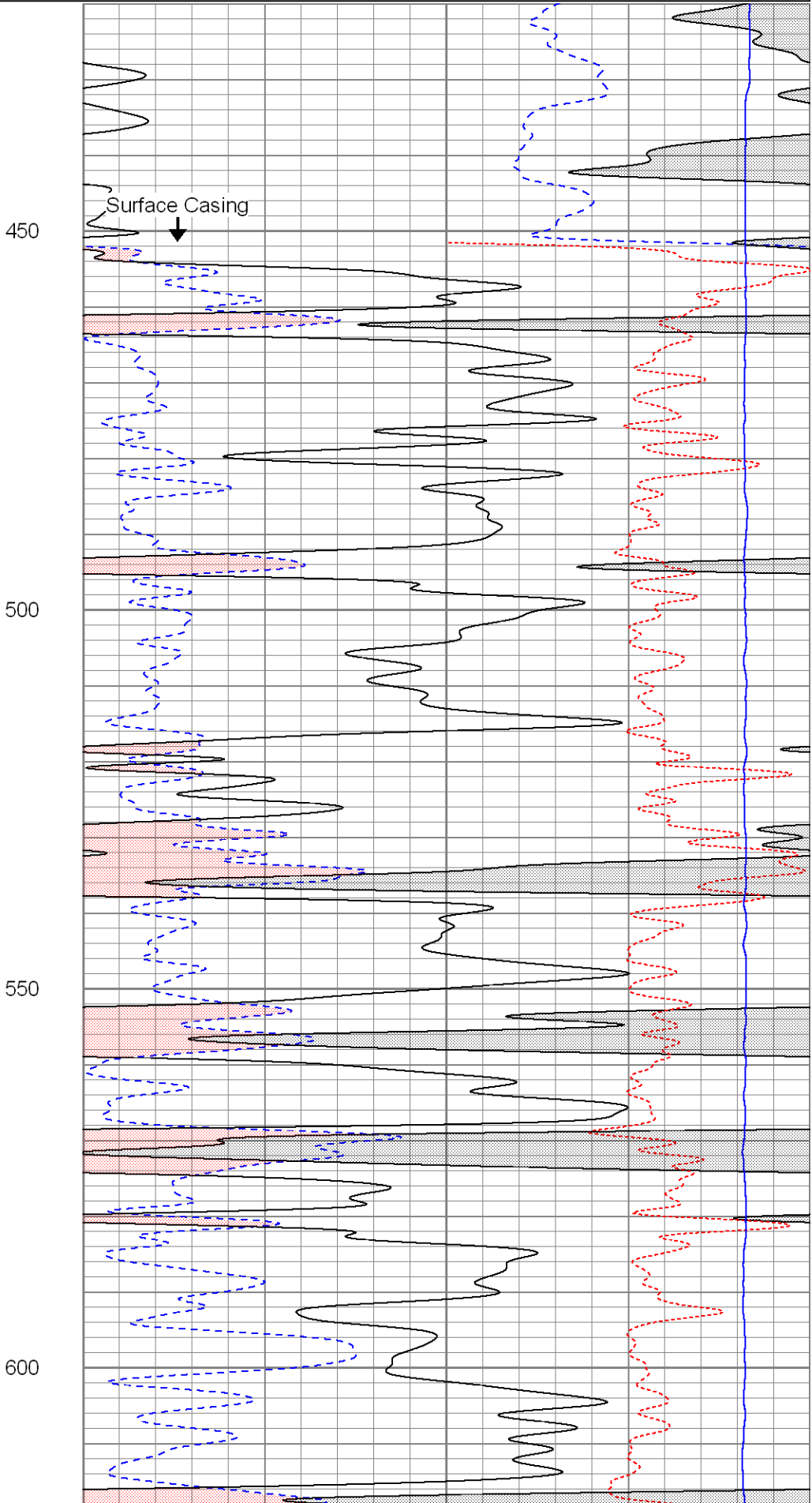
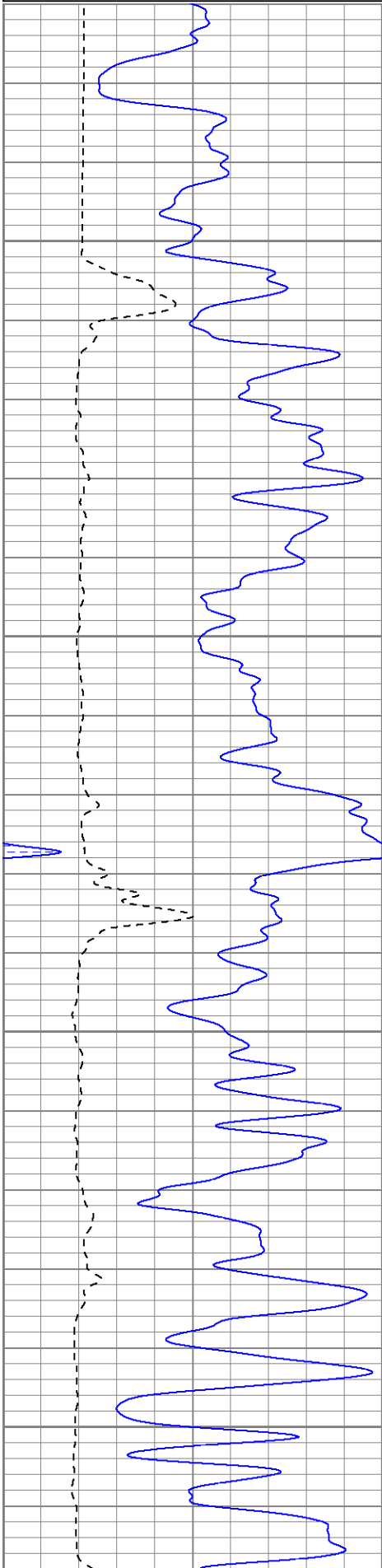
Main Merged Pass

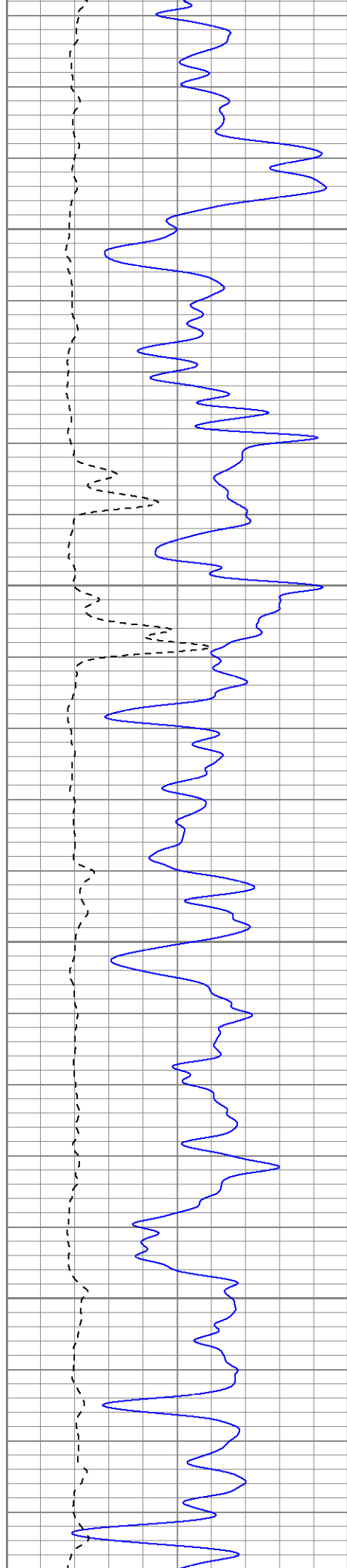
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Dataset Pathname: pass2.2
Presentation Format: cdnl
Dataset Creation: Fri Mar 13 11:07:22 2009
Charted by: Depth in Feet scaled 1:240

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

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

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



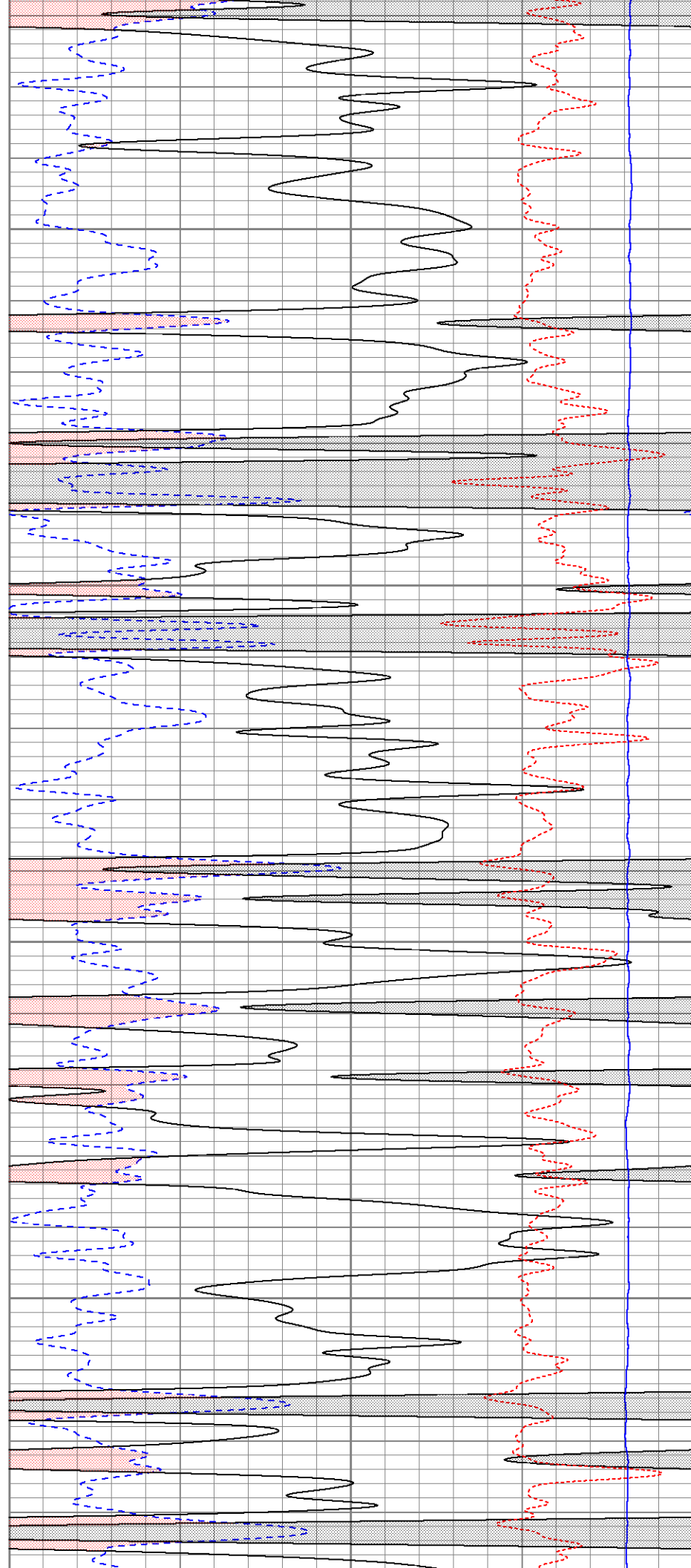


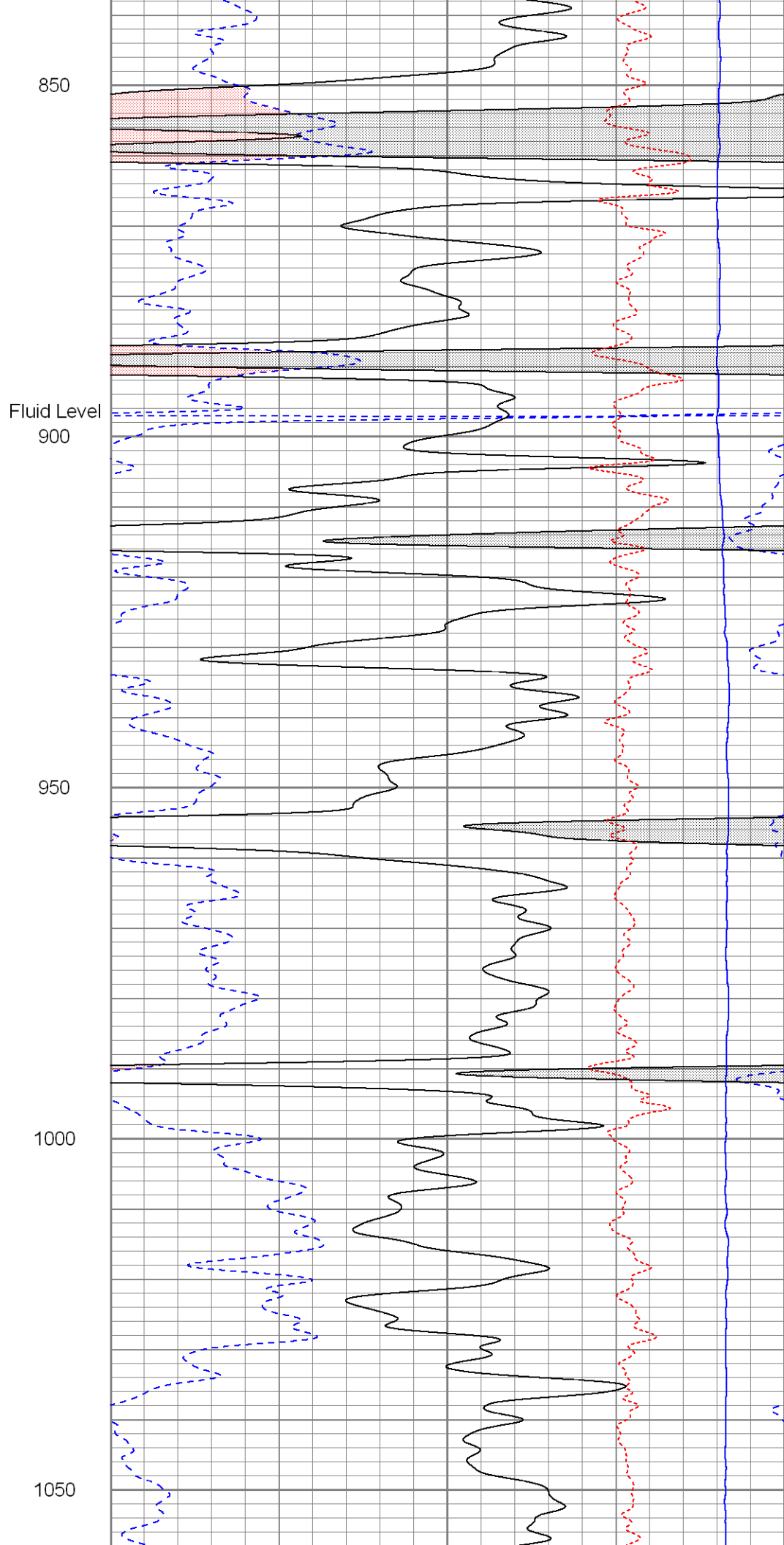
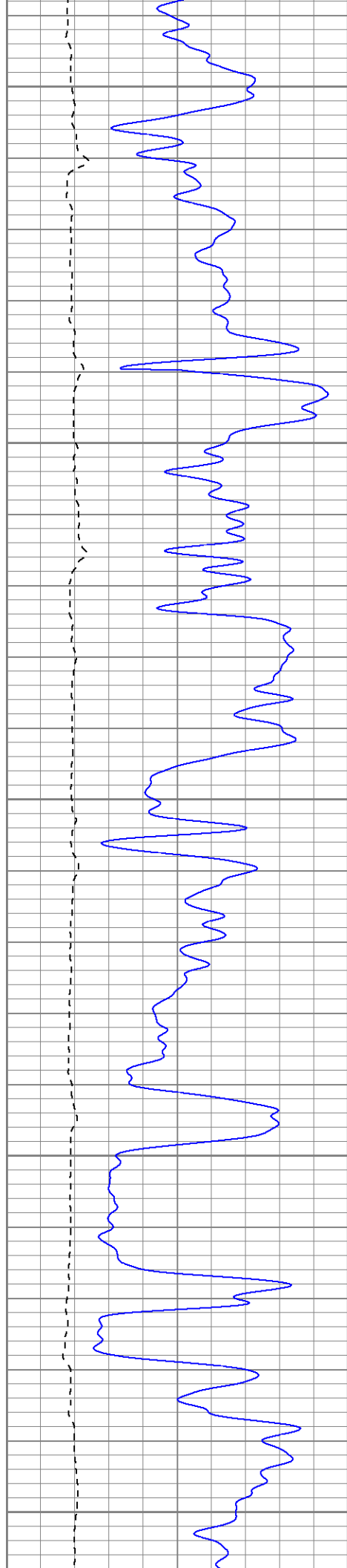
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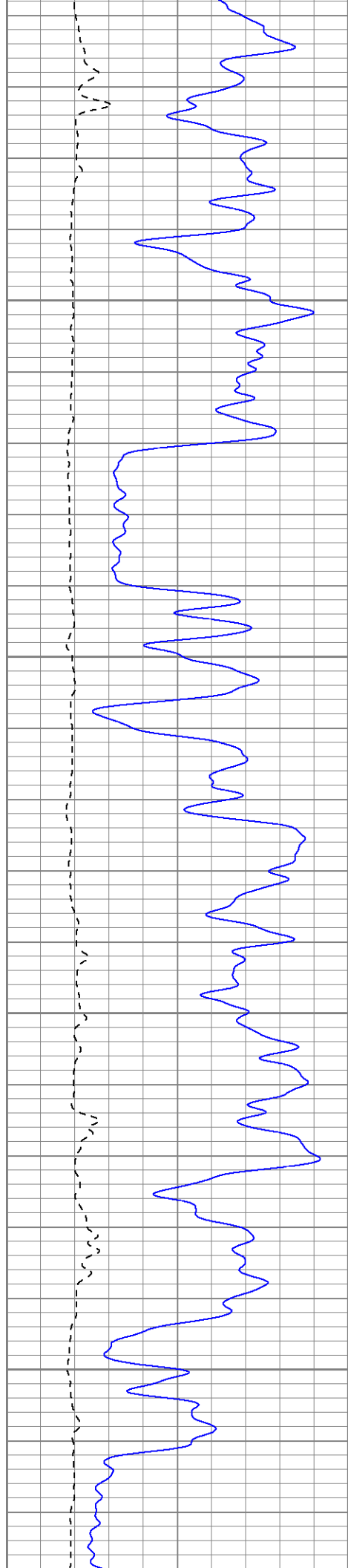
700

750

800





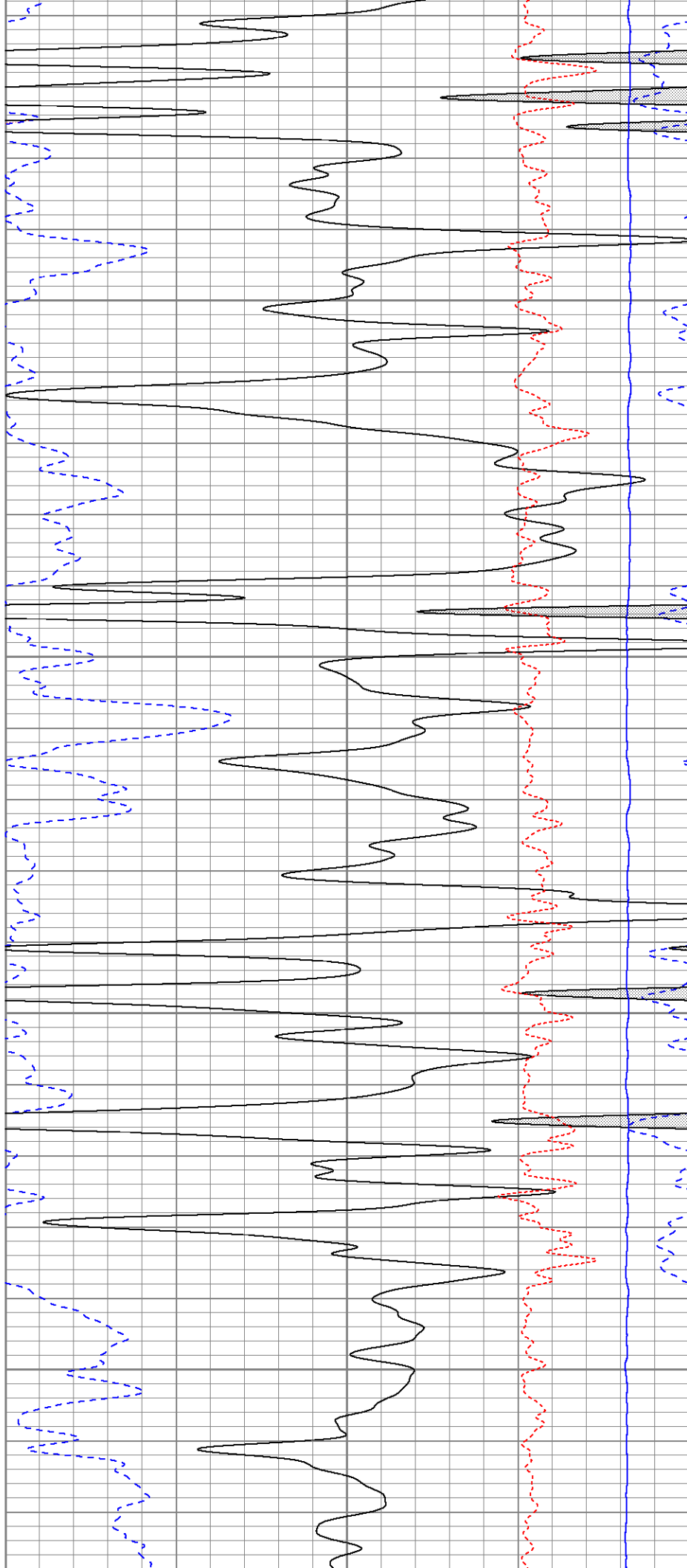


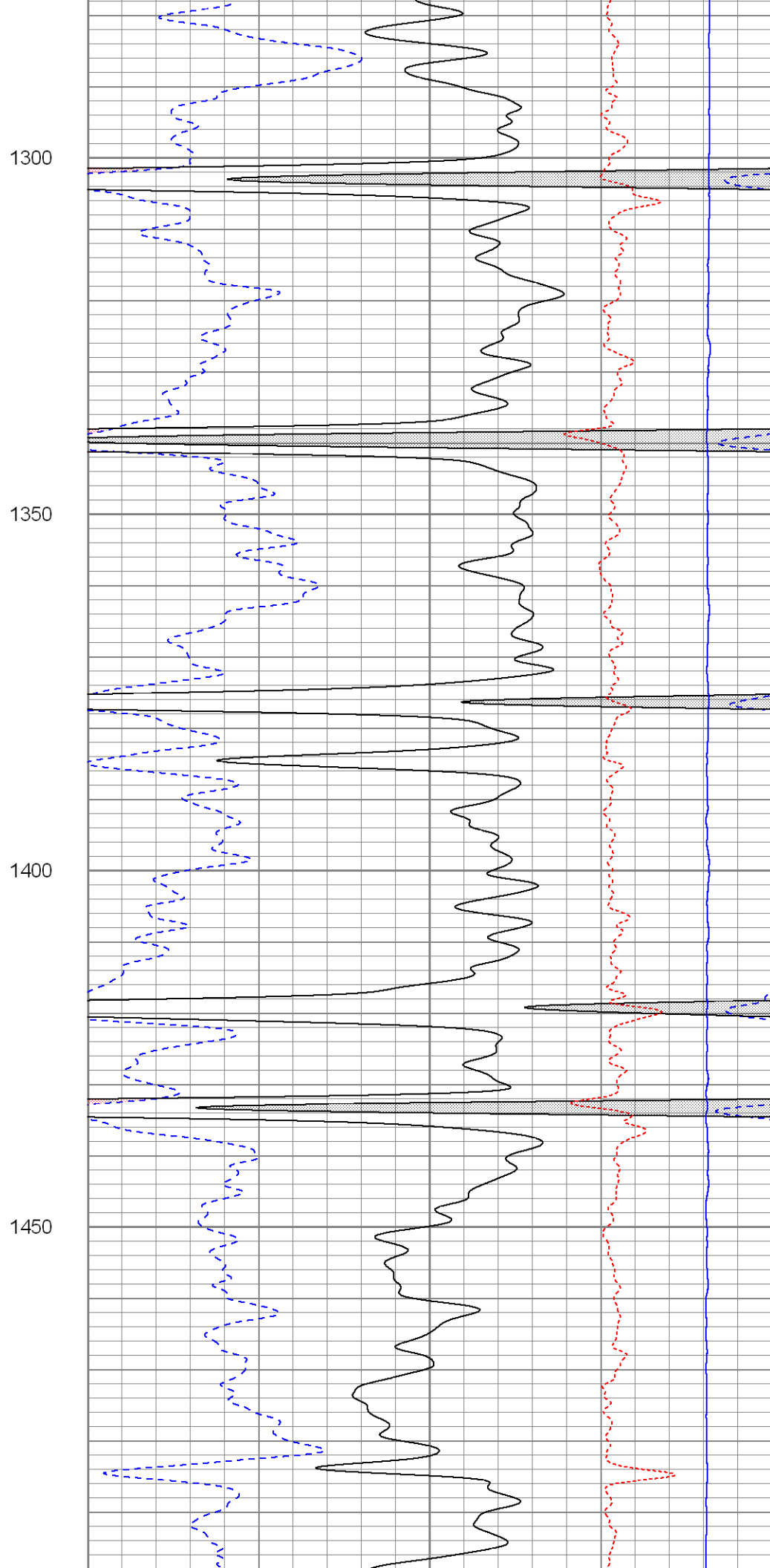
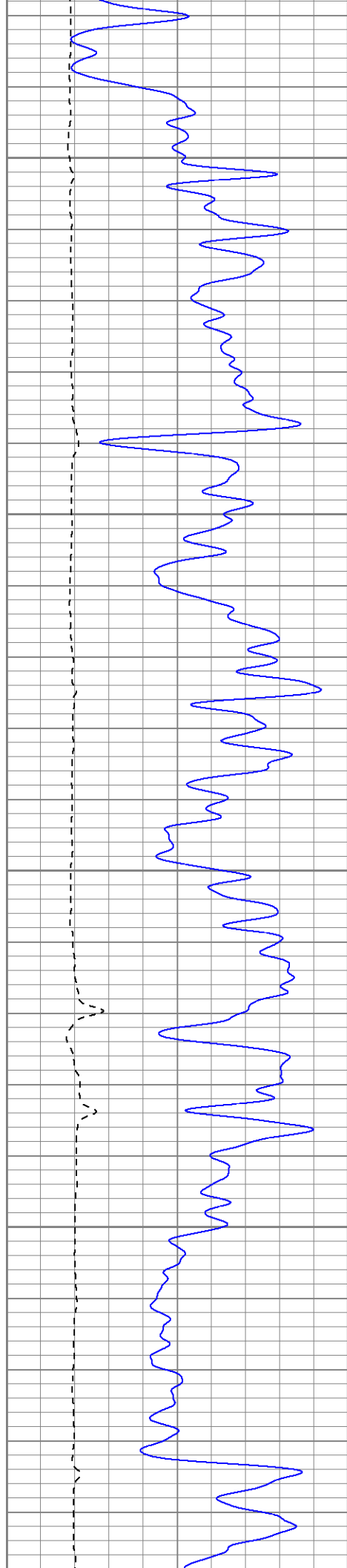
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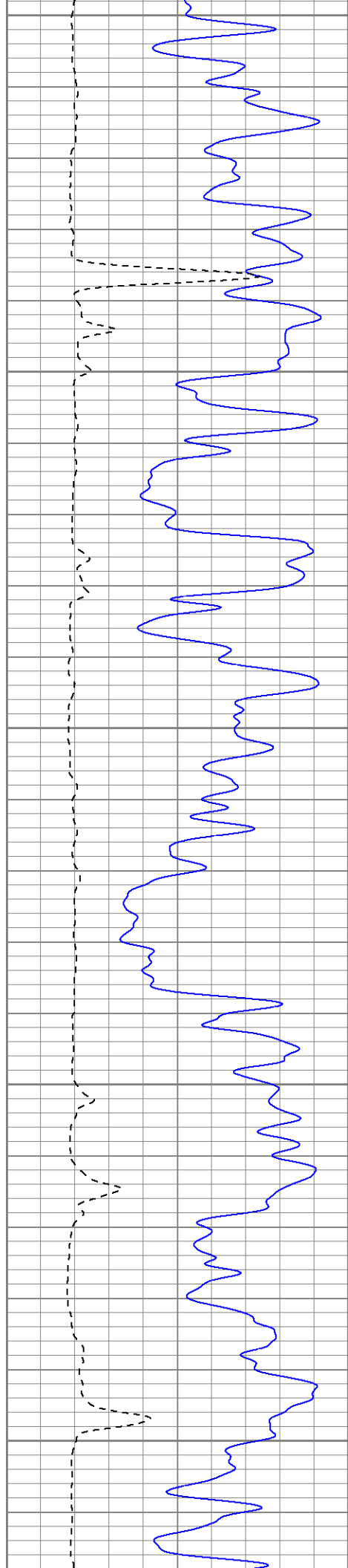
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1200

1250







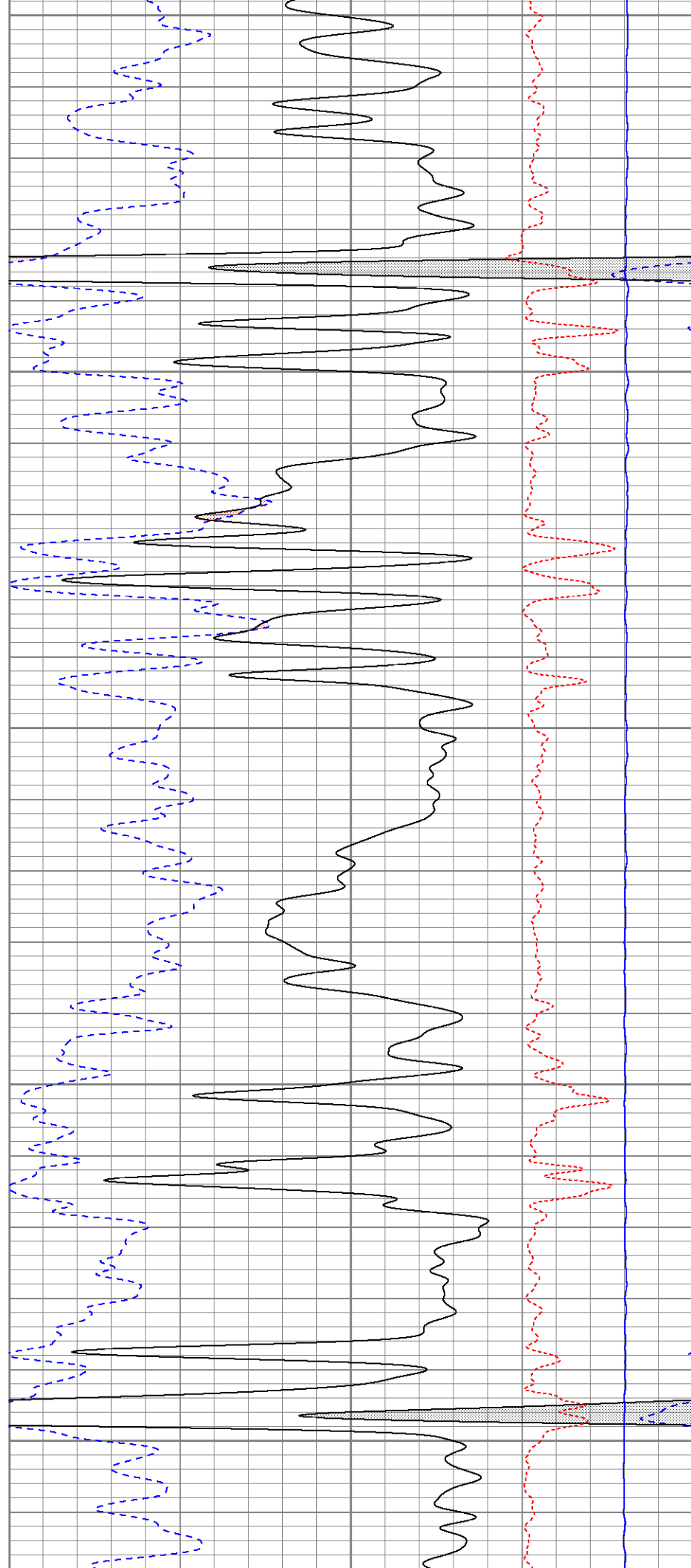
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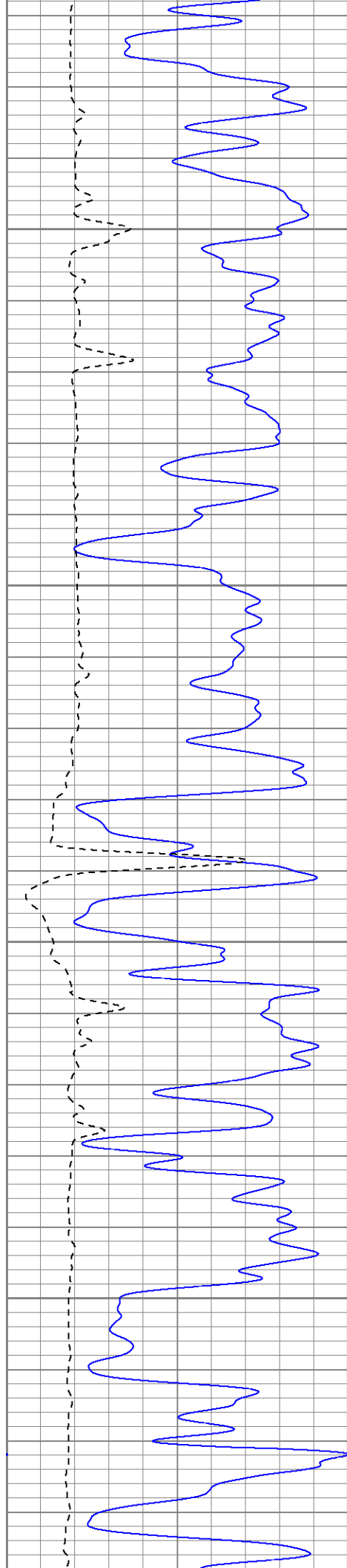
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1600

1650

1700



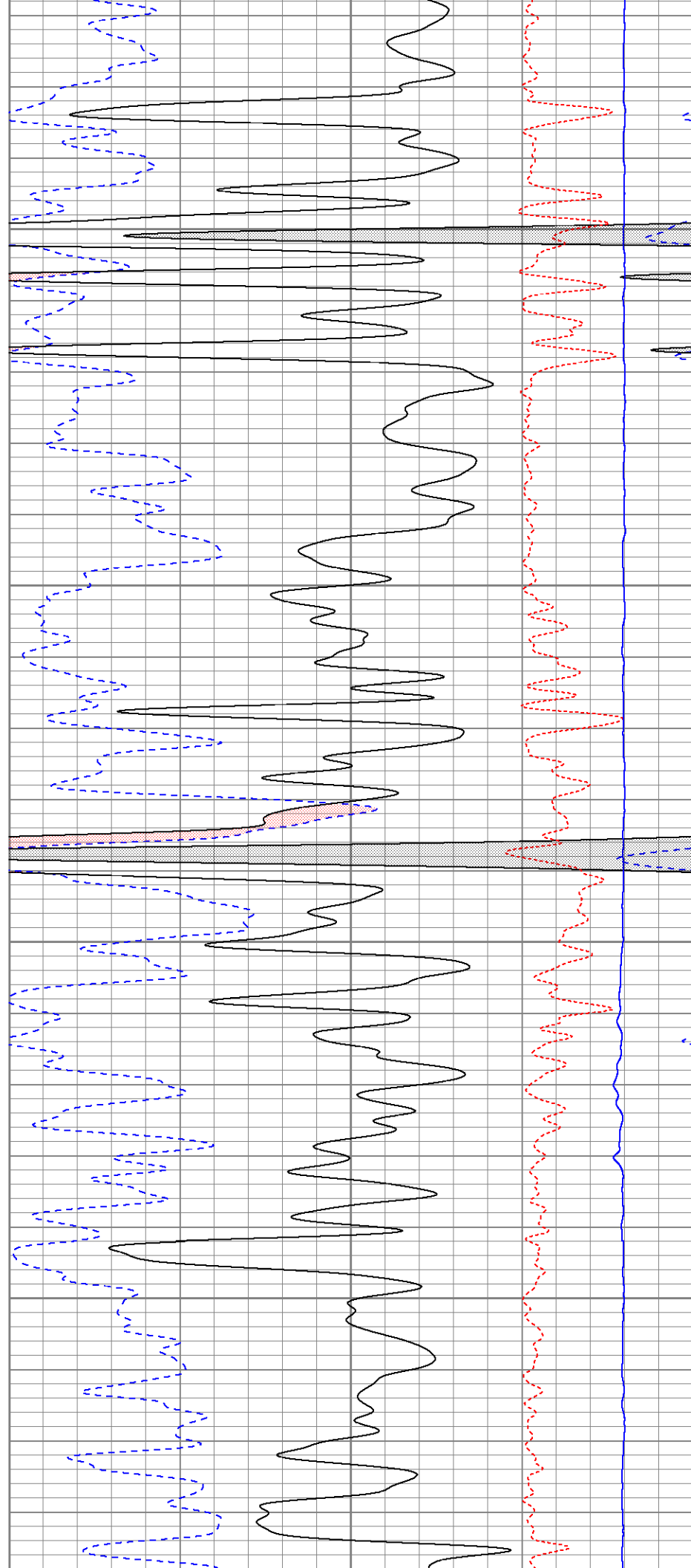


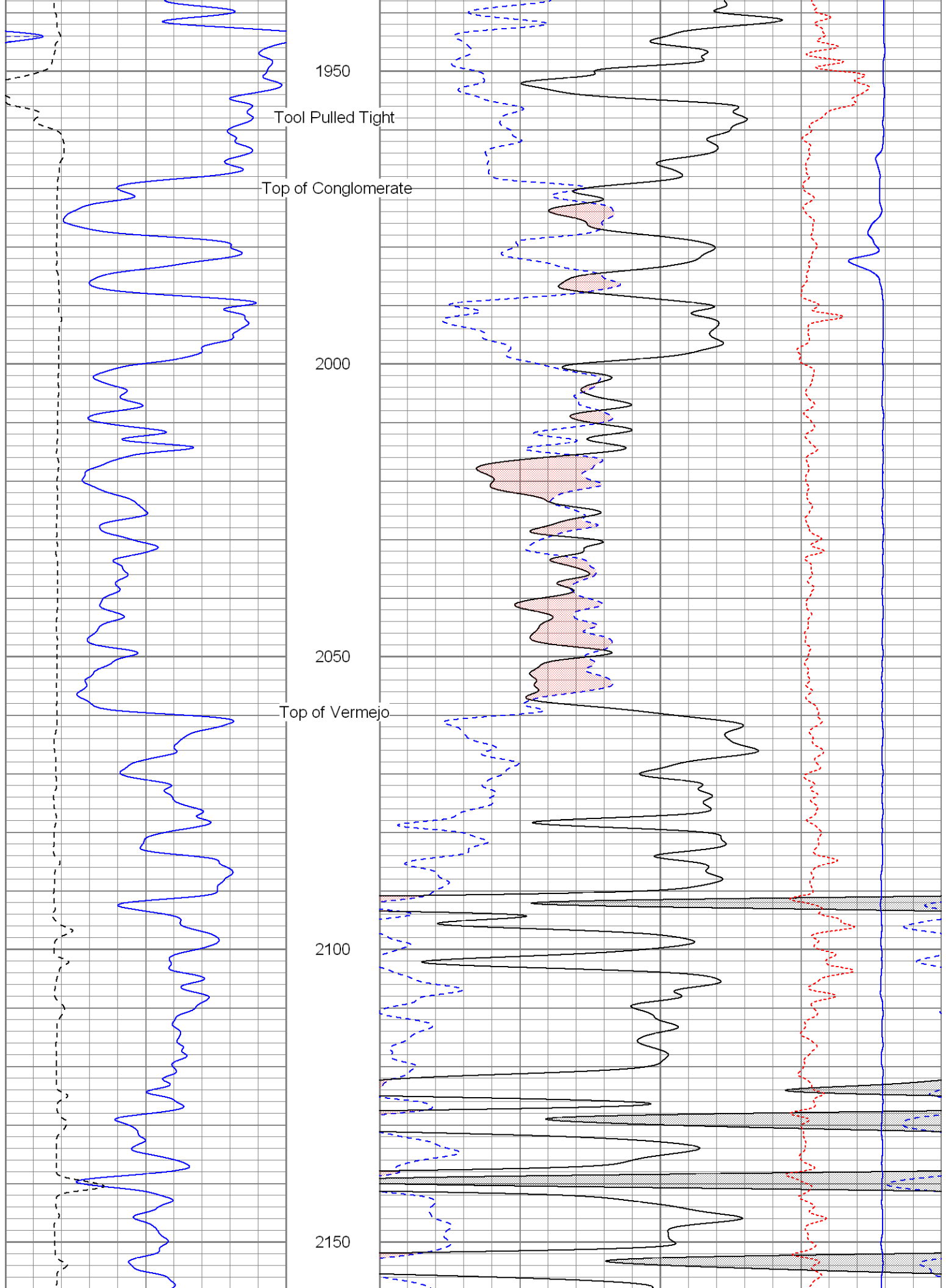
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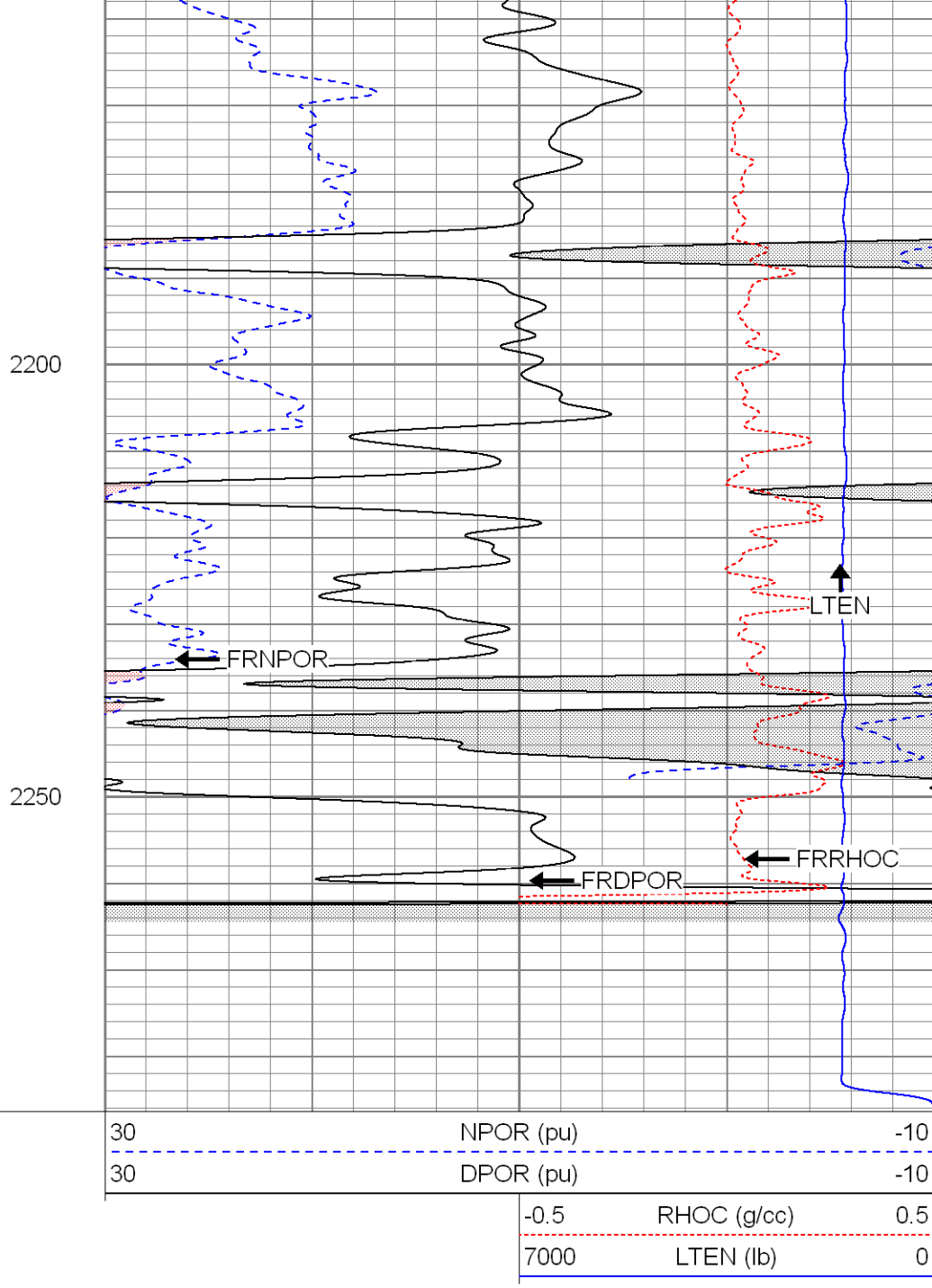
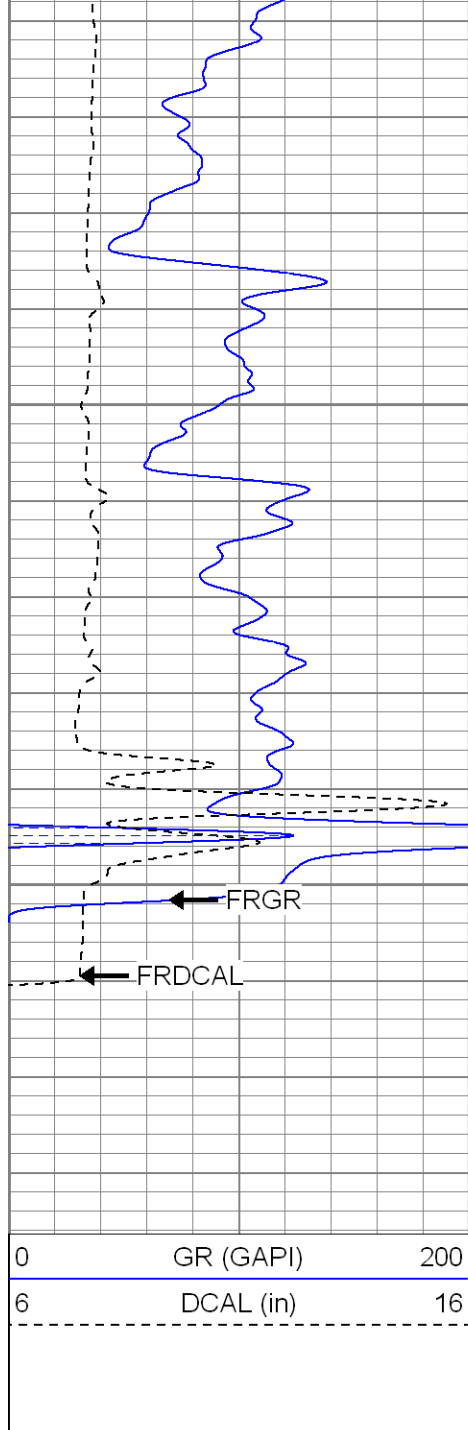
1800

1850

1900







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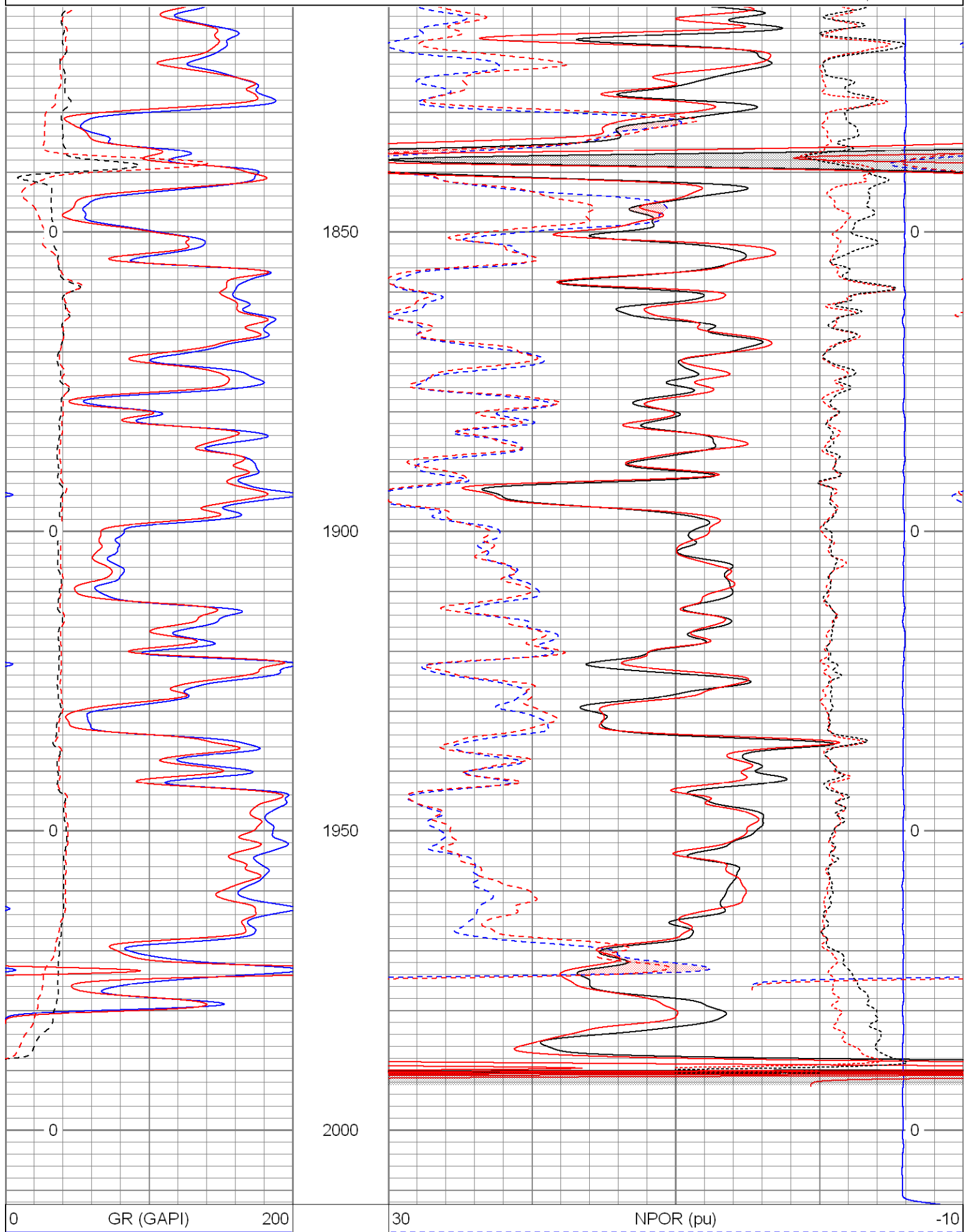
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Repeat Section

Database File: xt0hr0102.db
Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Thu Mar 12 13:19:45 2009 by Calc 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)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHO� (g/cc)	0.5
7000	LTEN (lb)	0



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

30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
ABHV (ft3)		



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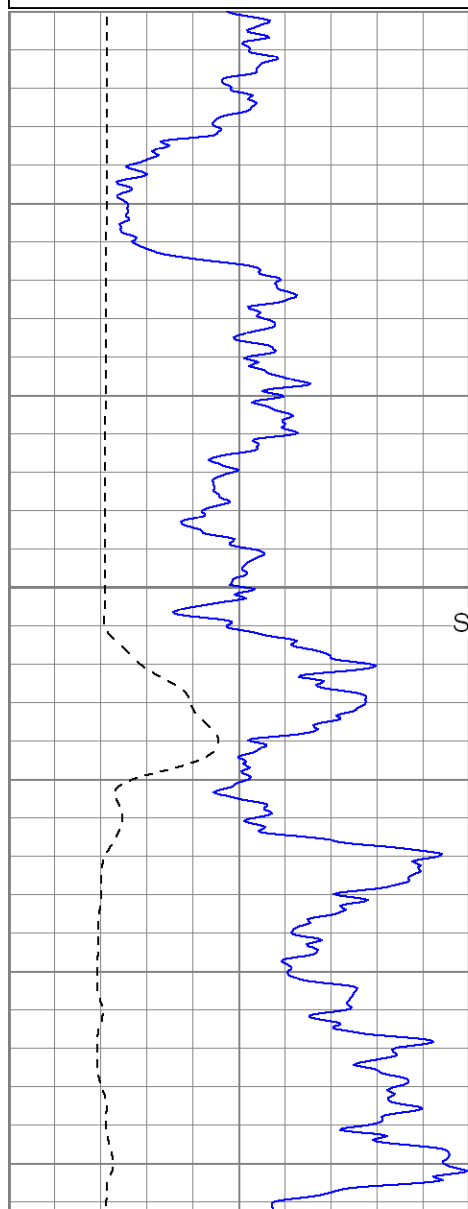
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High Resolution Pass

Database File: xtohr0102.db
Dataset Pathname: pass2.5
Presentation Format: cdlhr
Dataset Creation: Fri Mar 13 13:40:03 2009
Charted by: Depth in Feet scaled 1:120

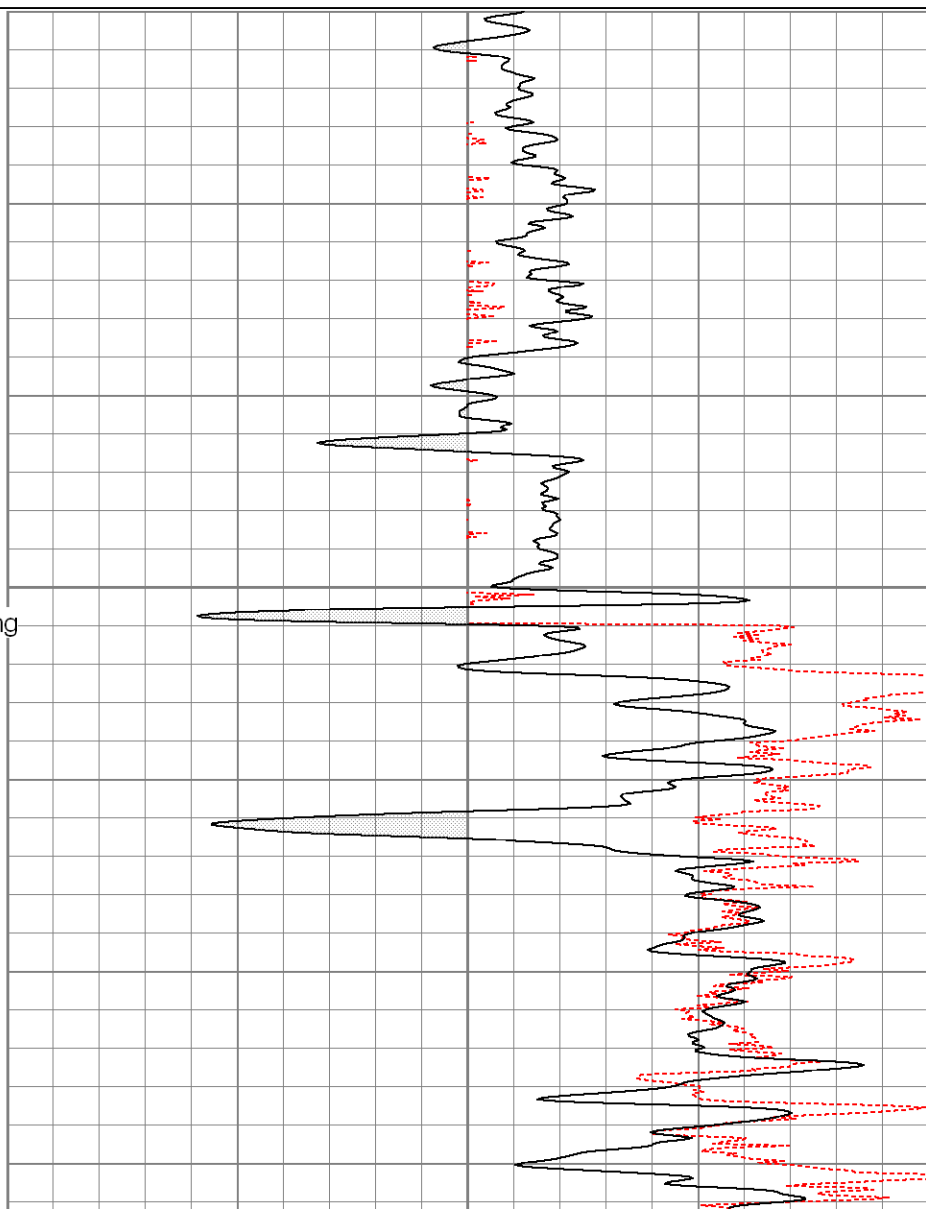
0	GR (GAPI)	200
6	DCAL (in)	16

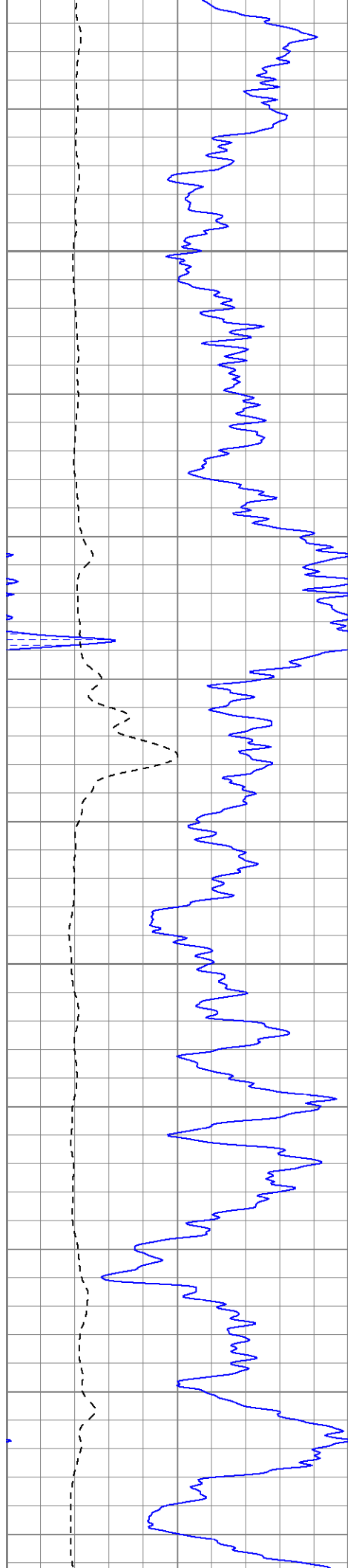
1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5



450

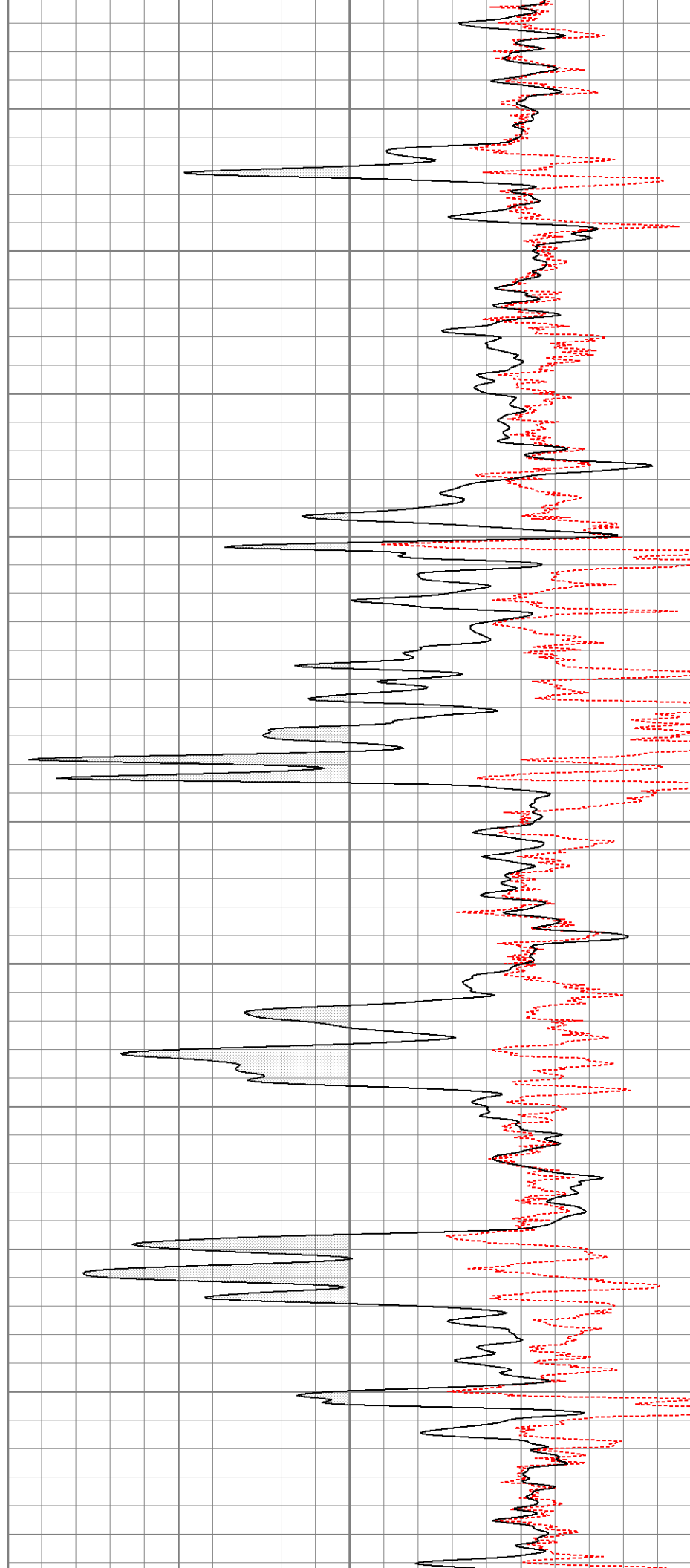
Surface Casing

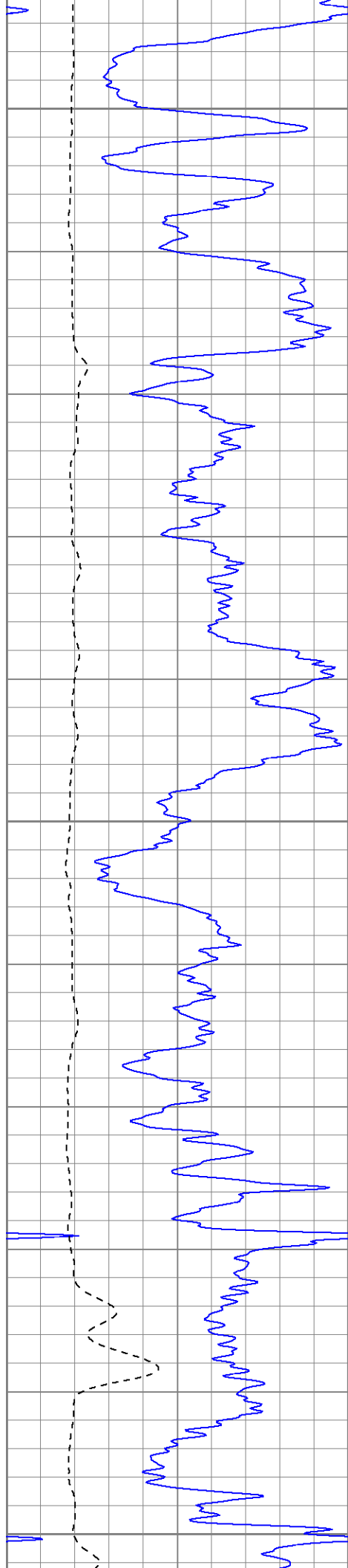




500

550

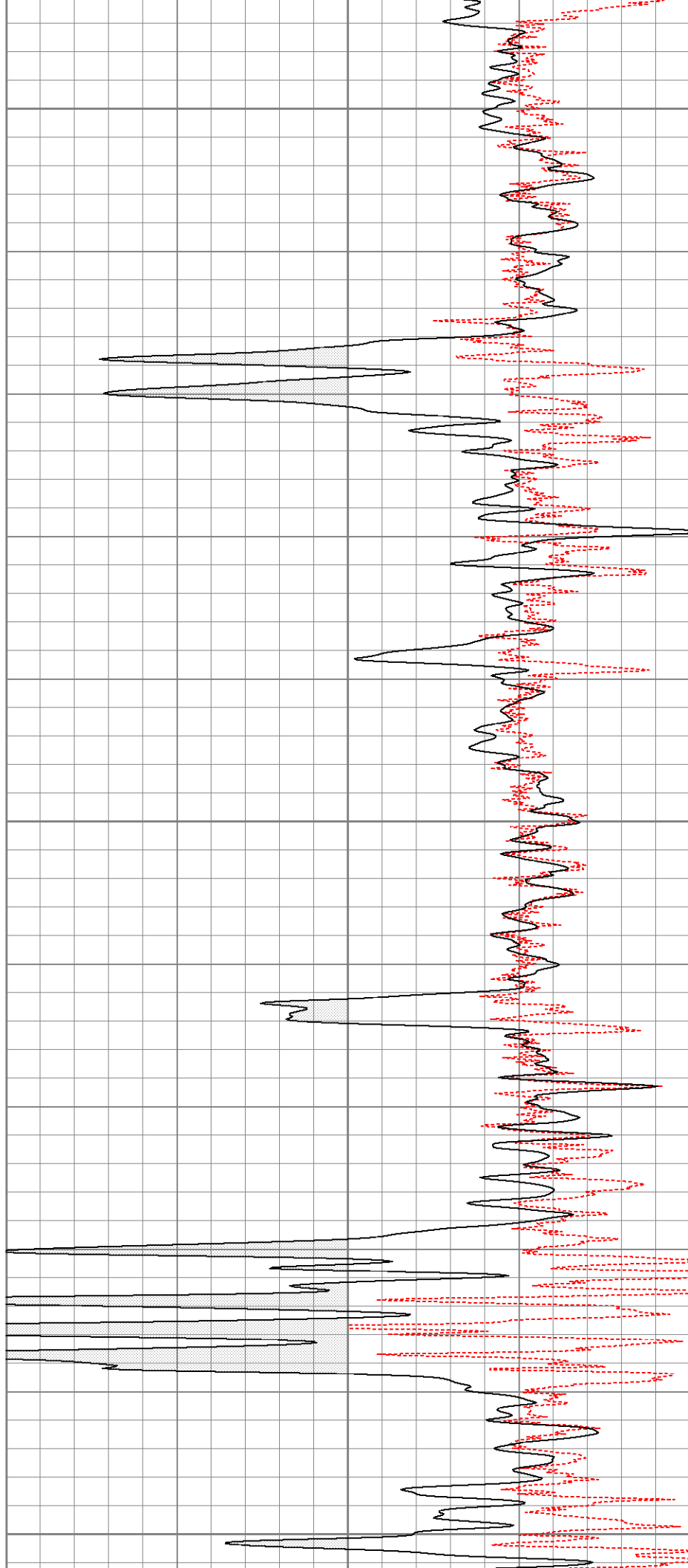


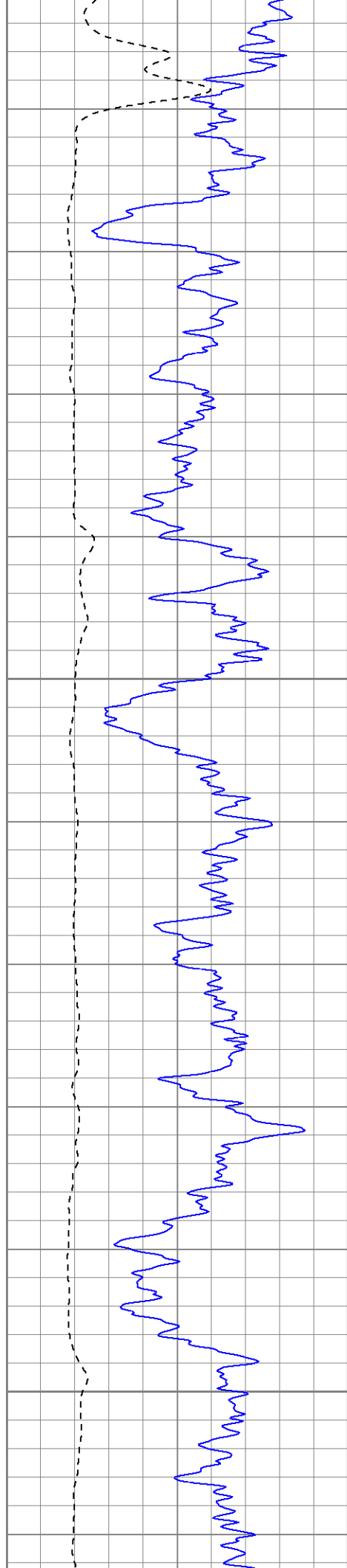


600

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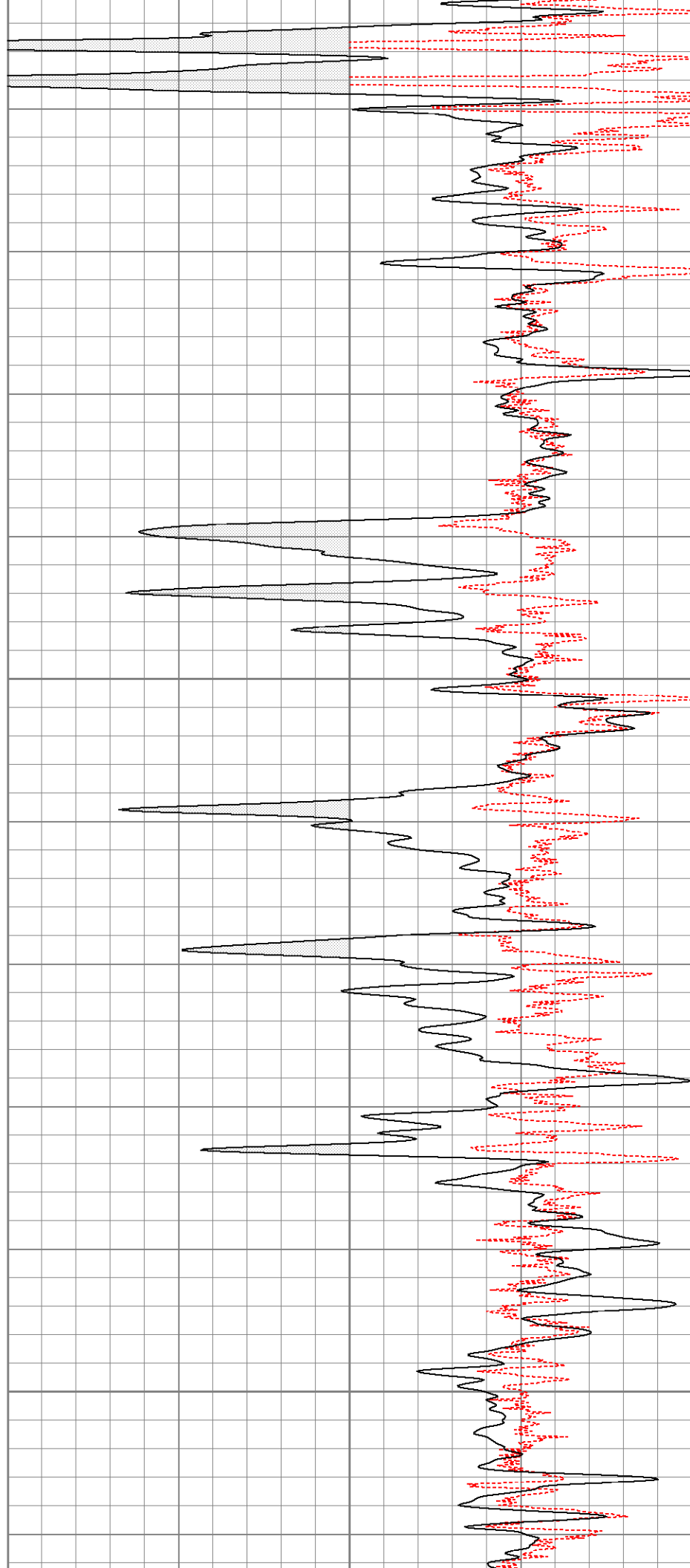
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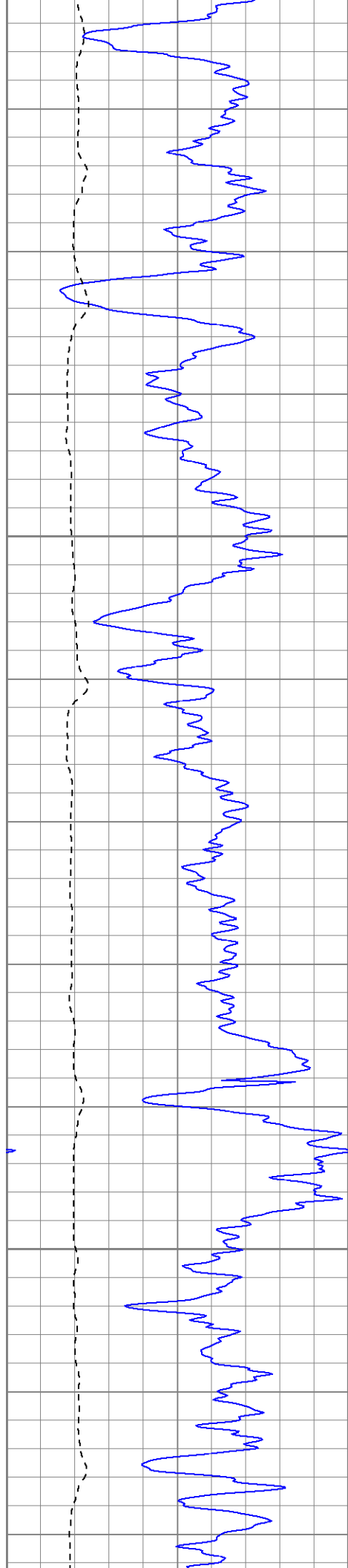




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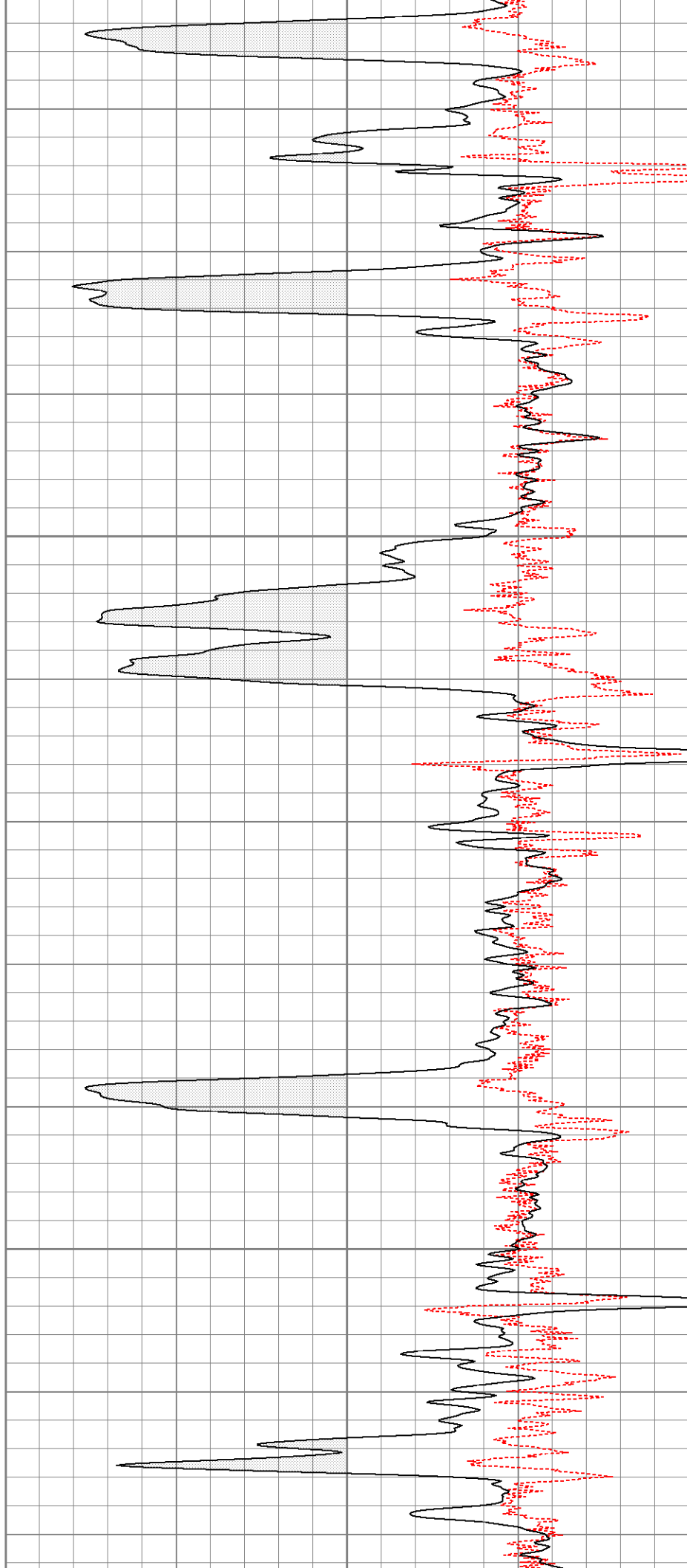
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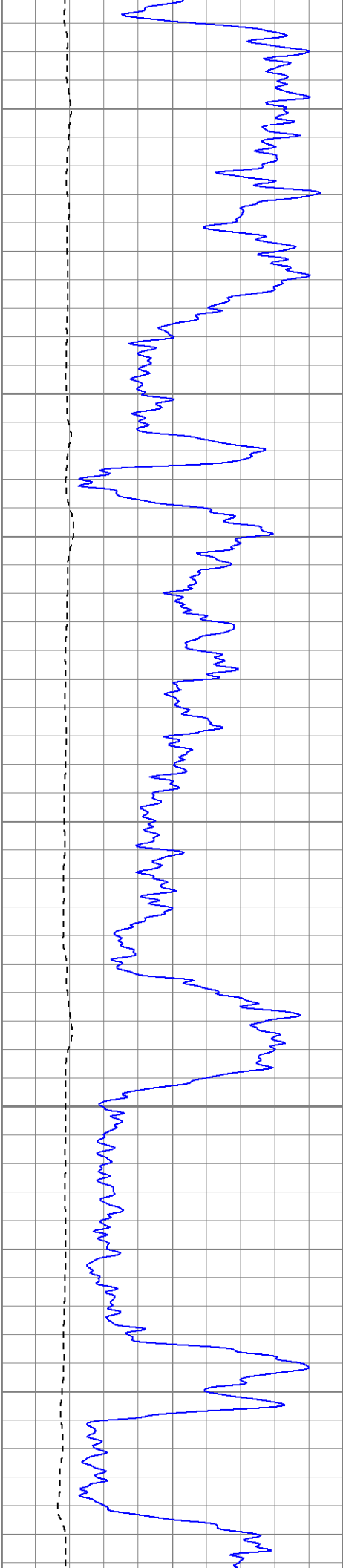




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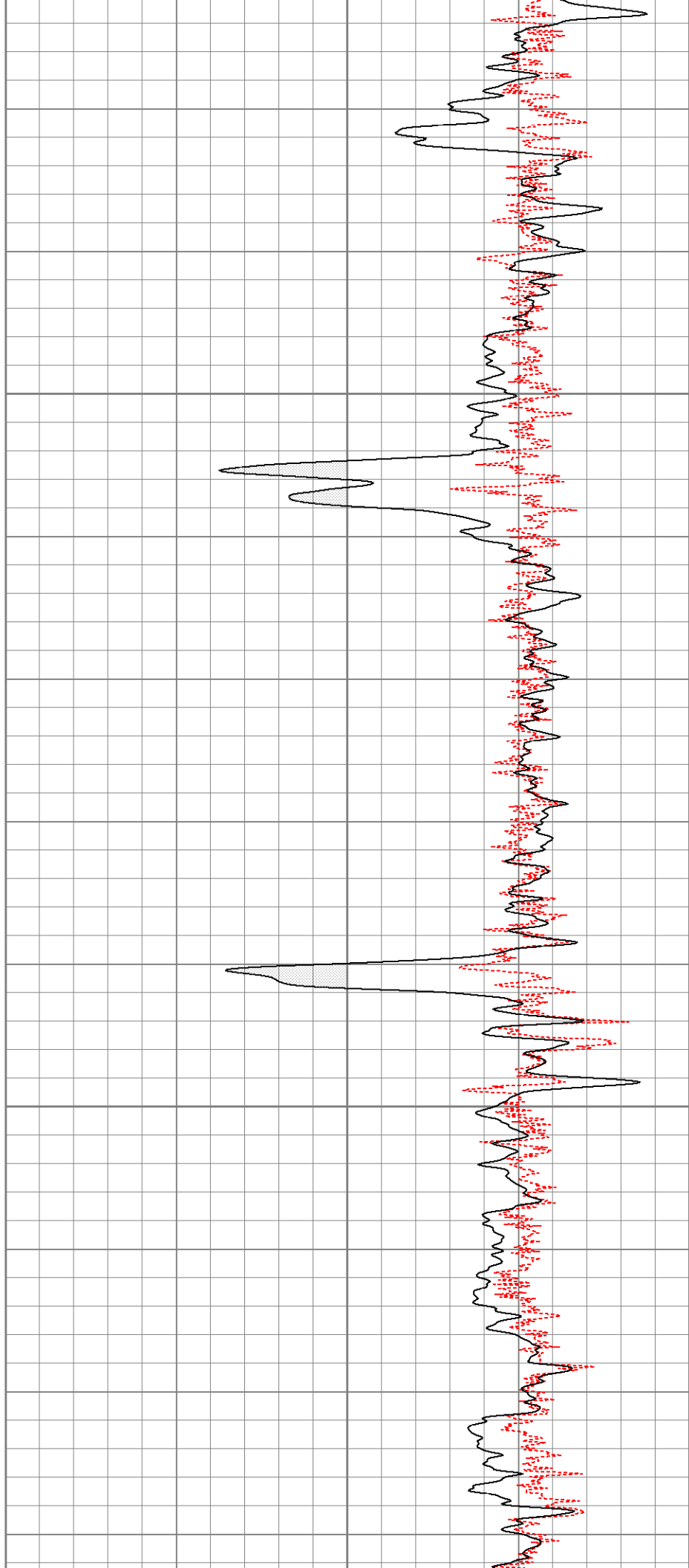
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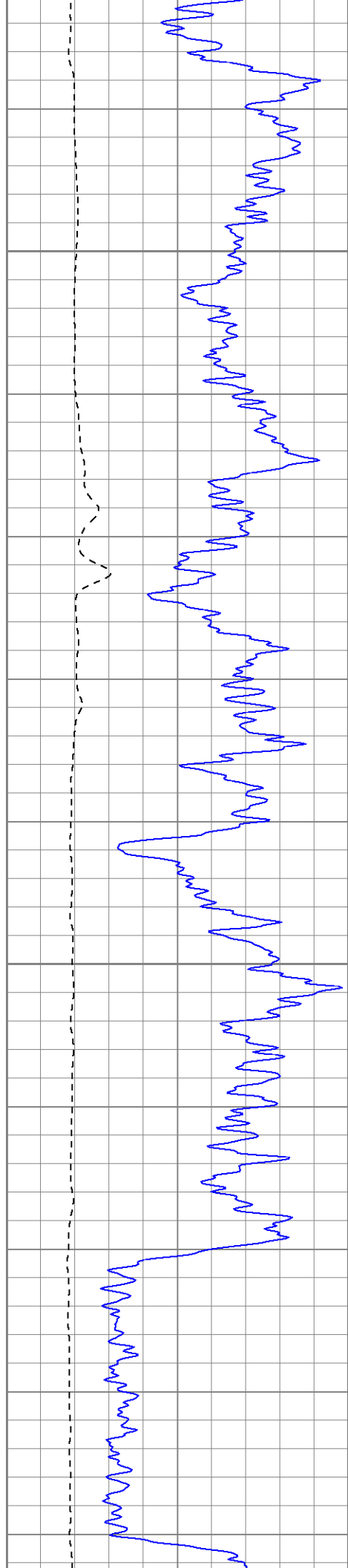




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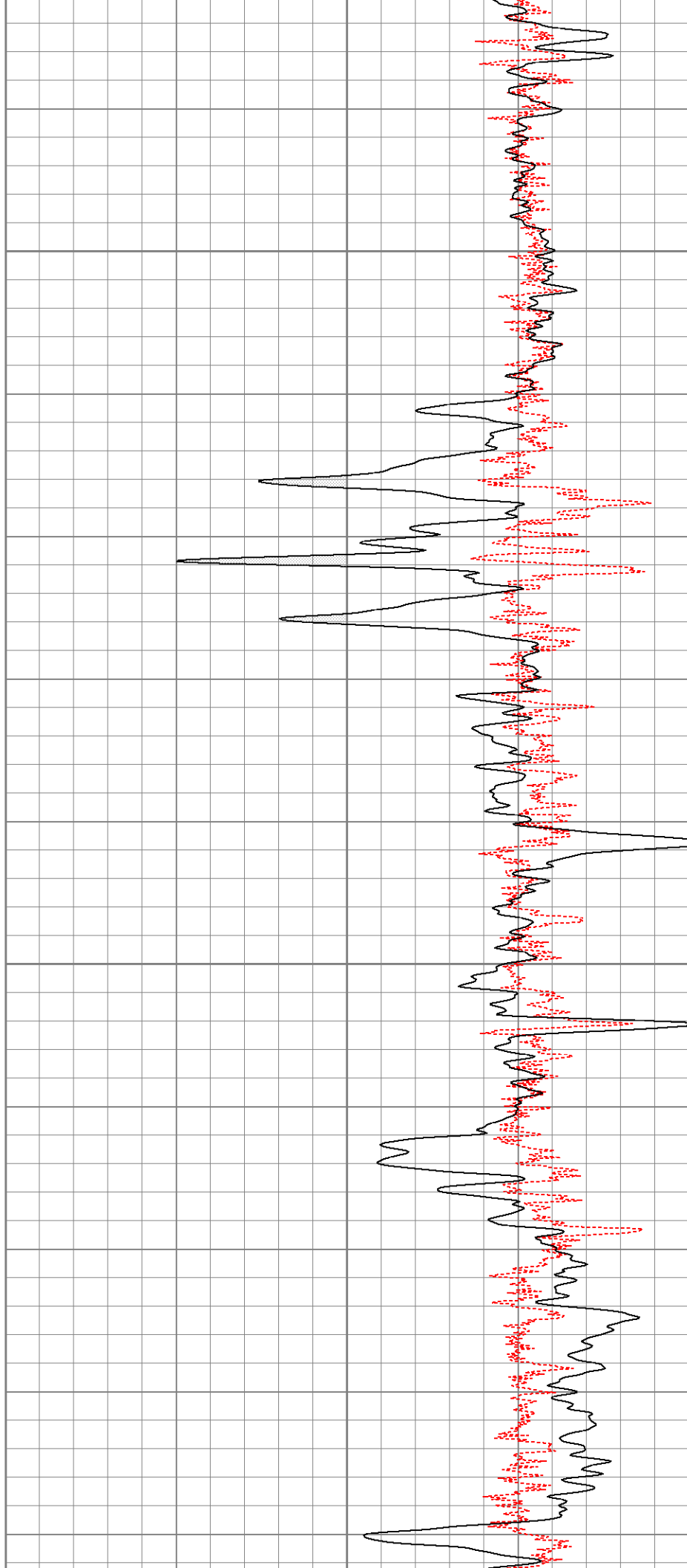
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1050

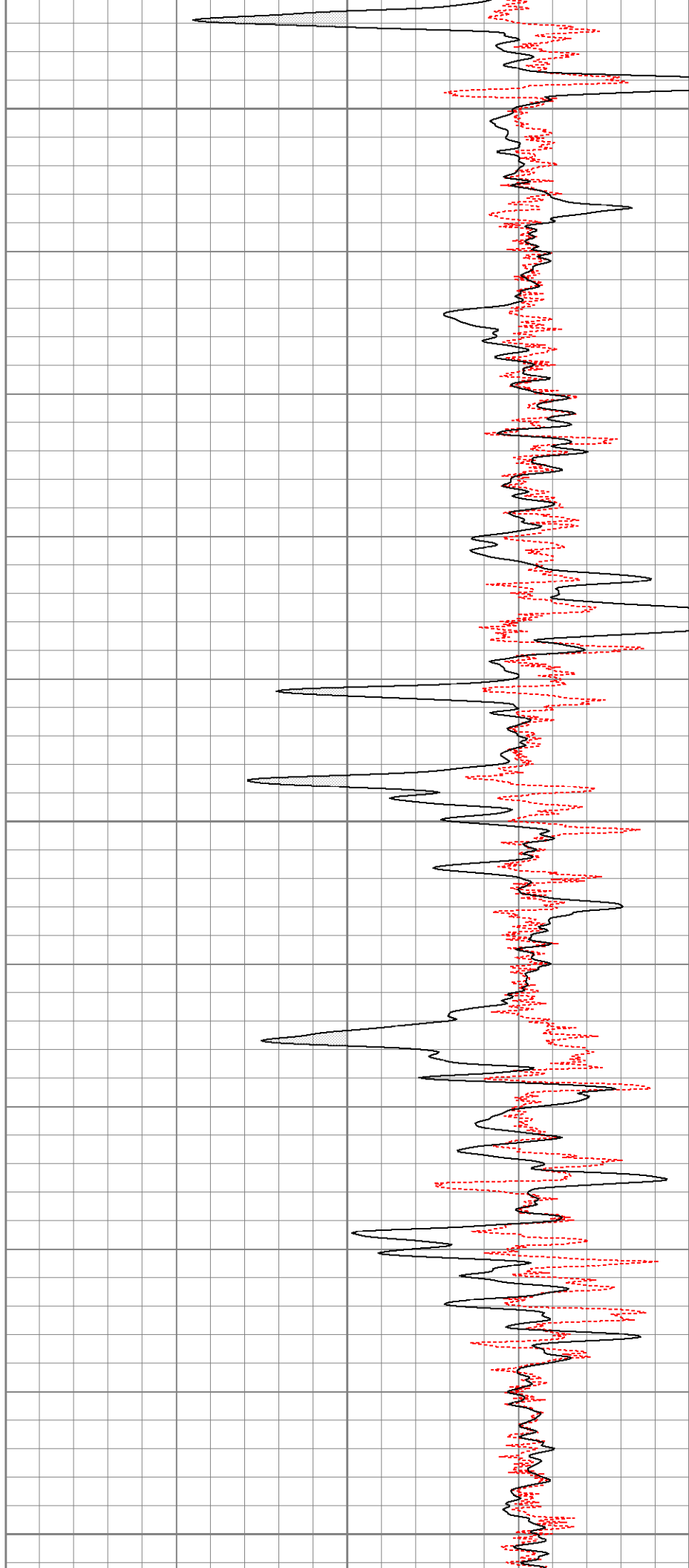
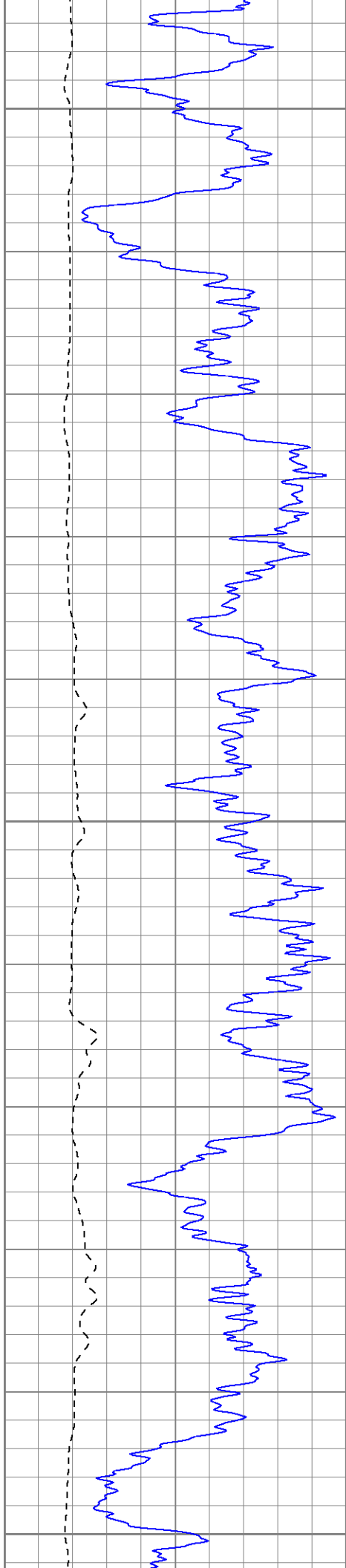
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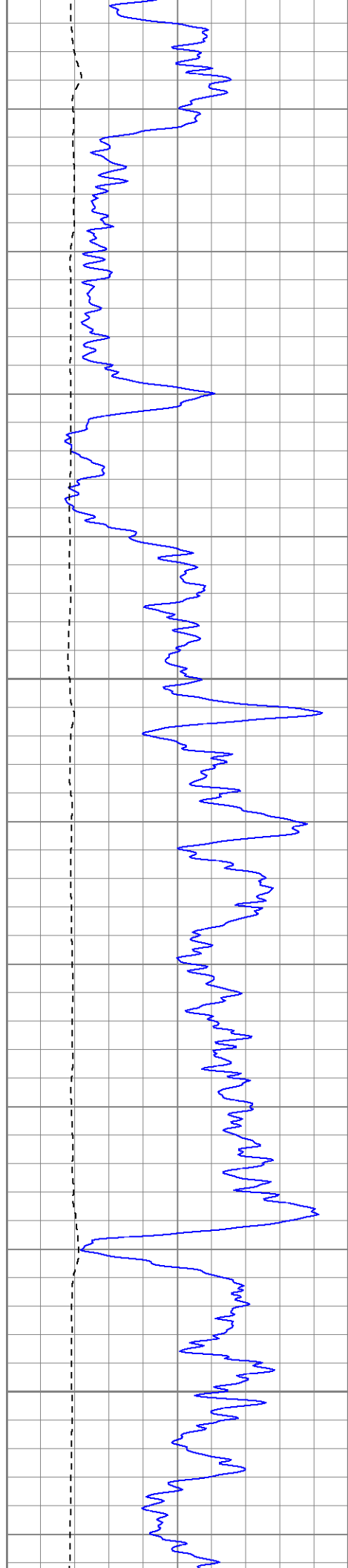


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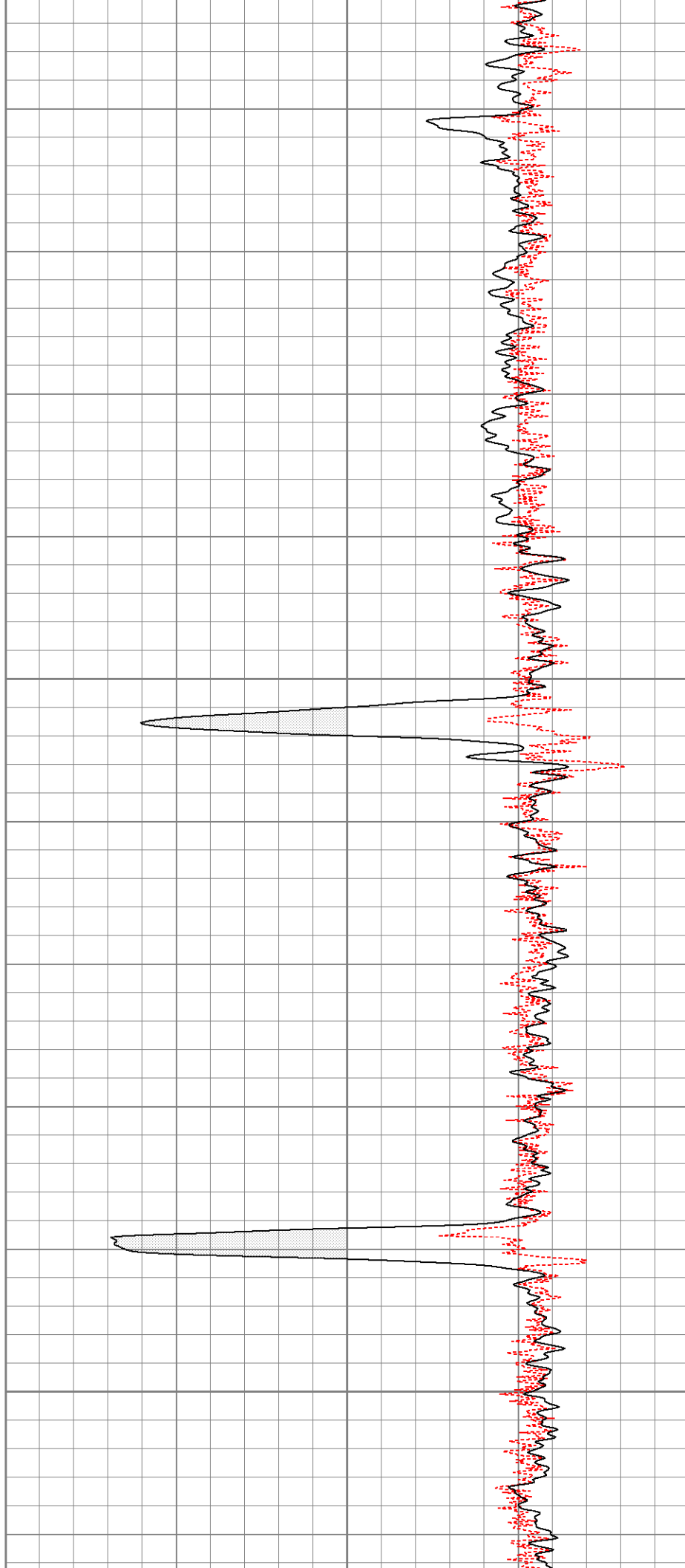
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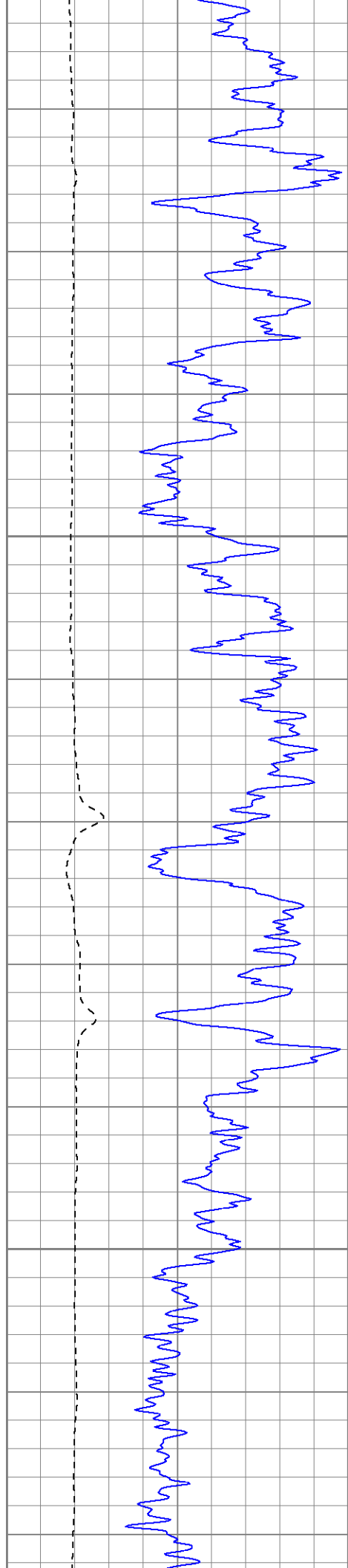




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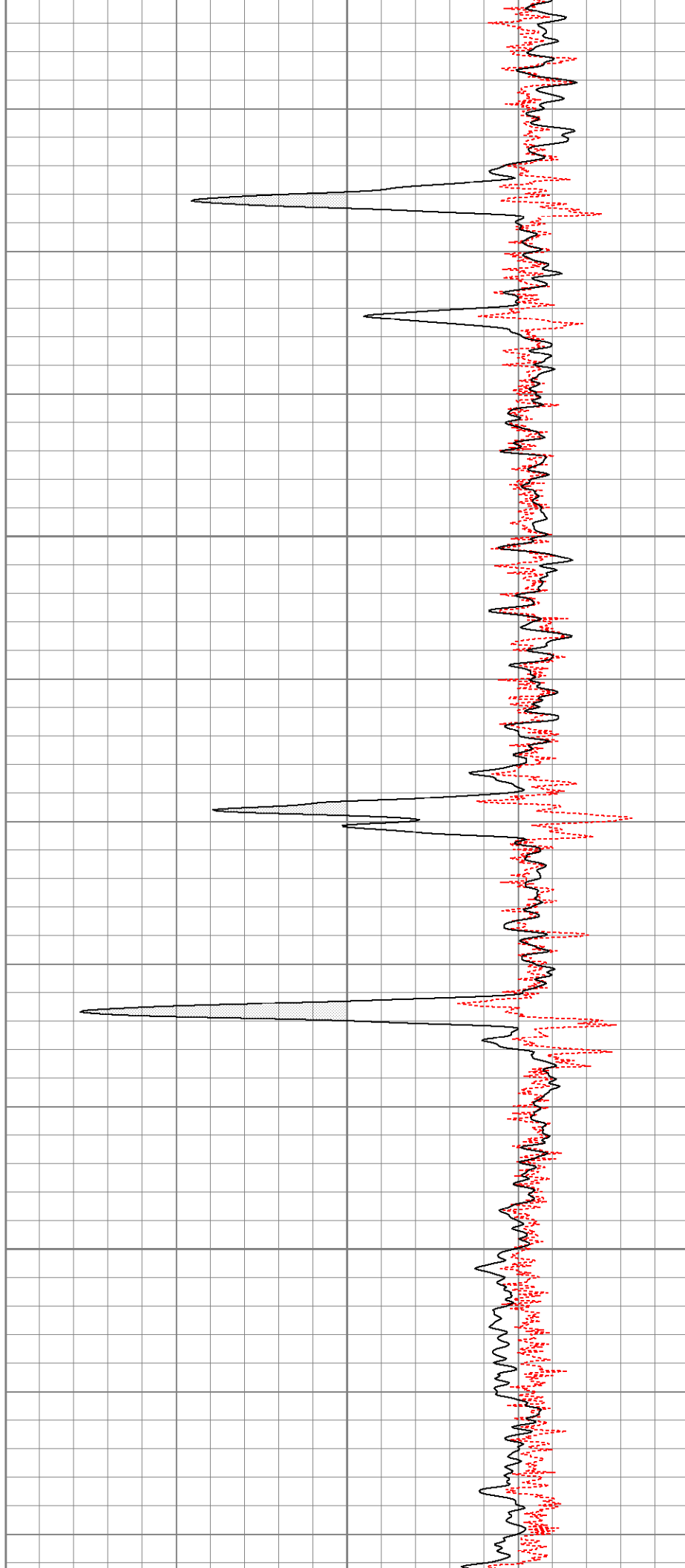
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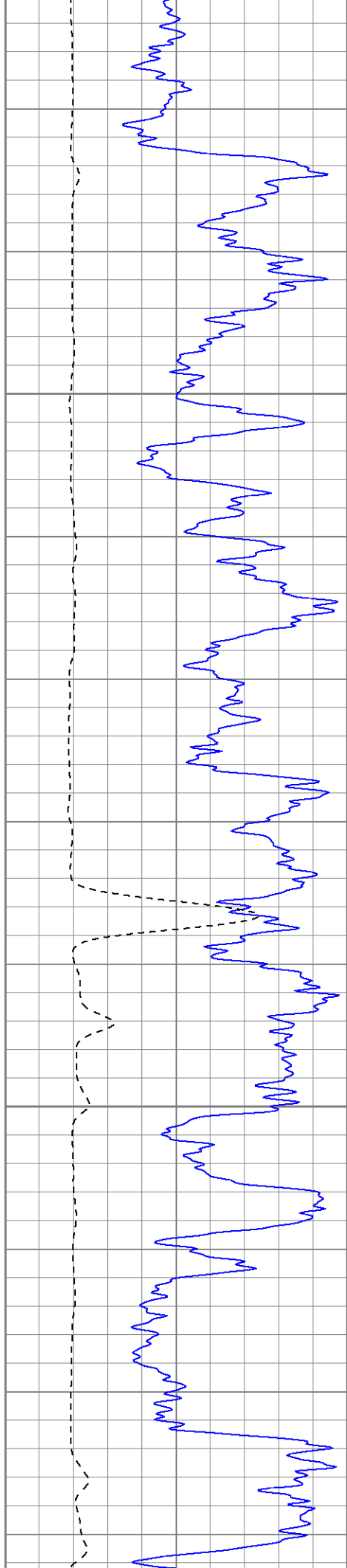




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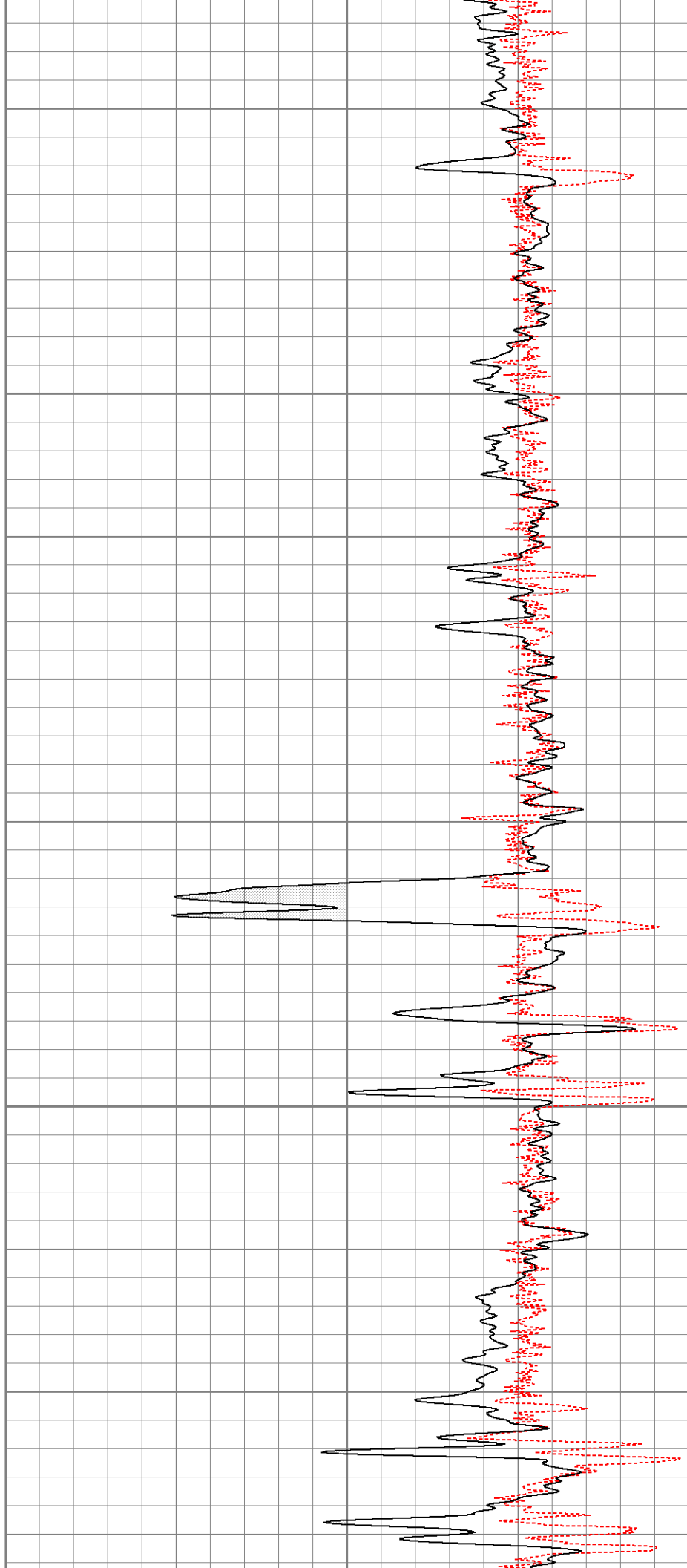
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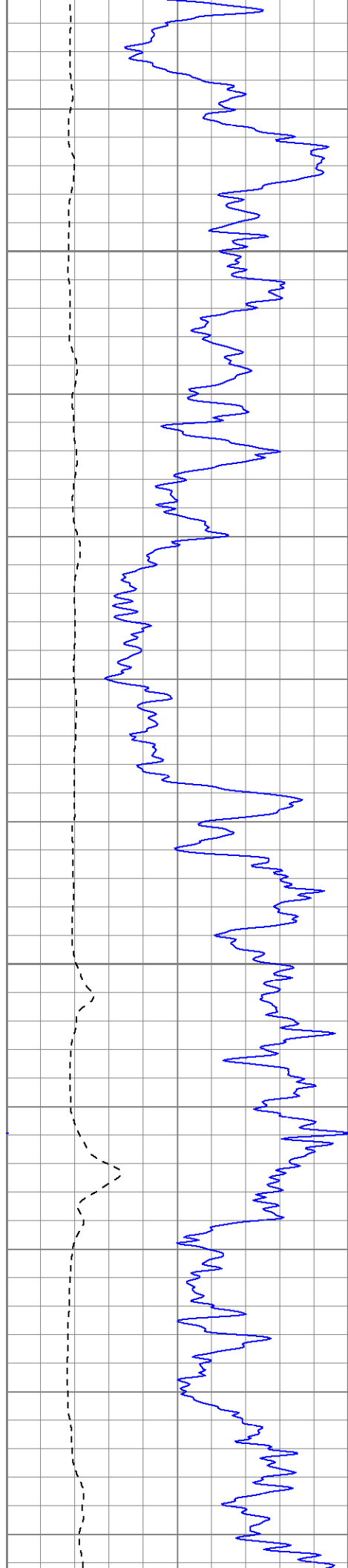




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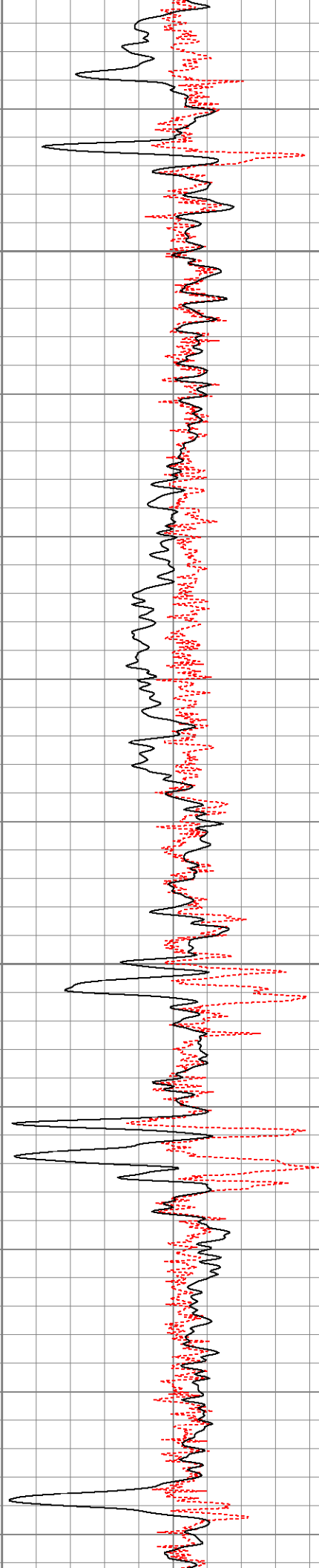
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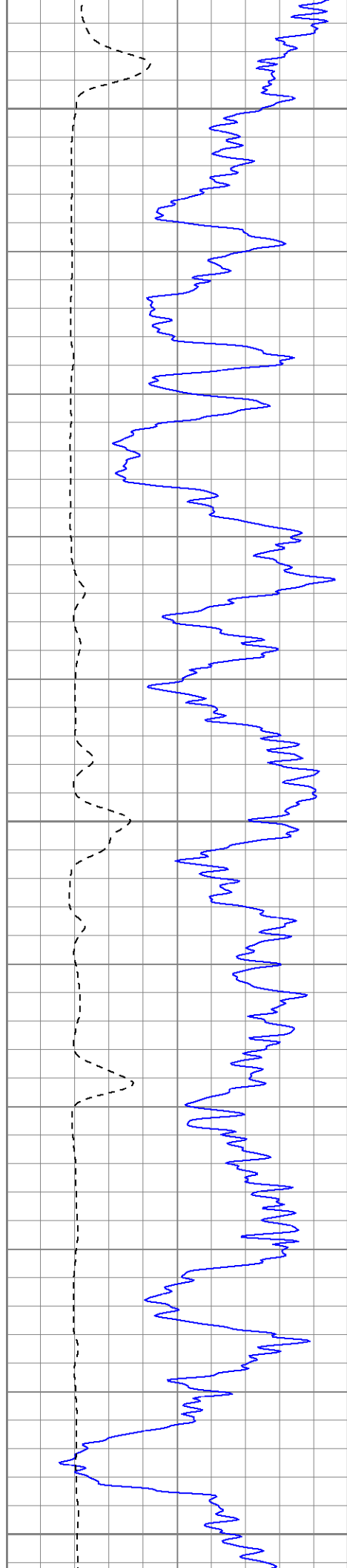




1600

1650

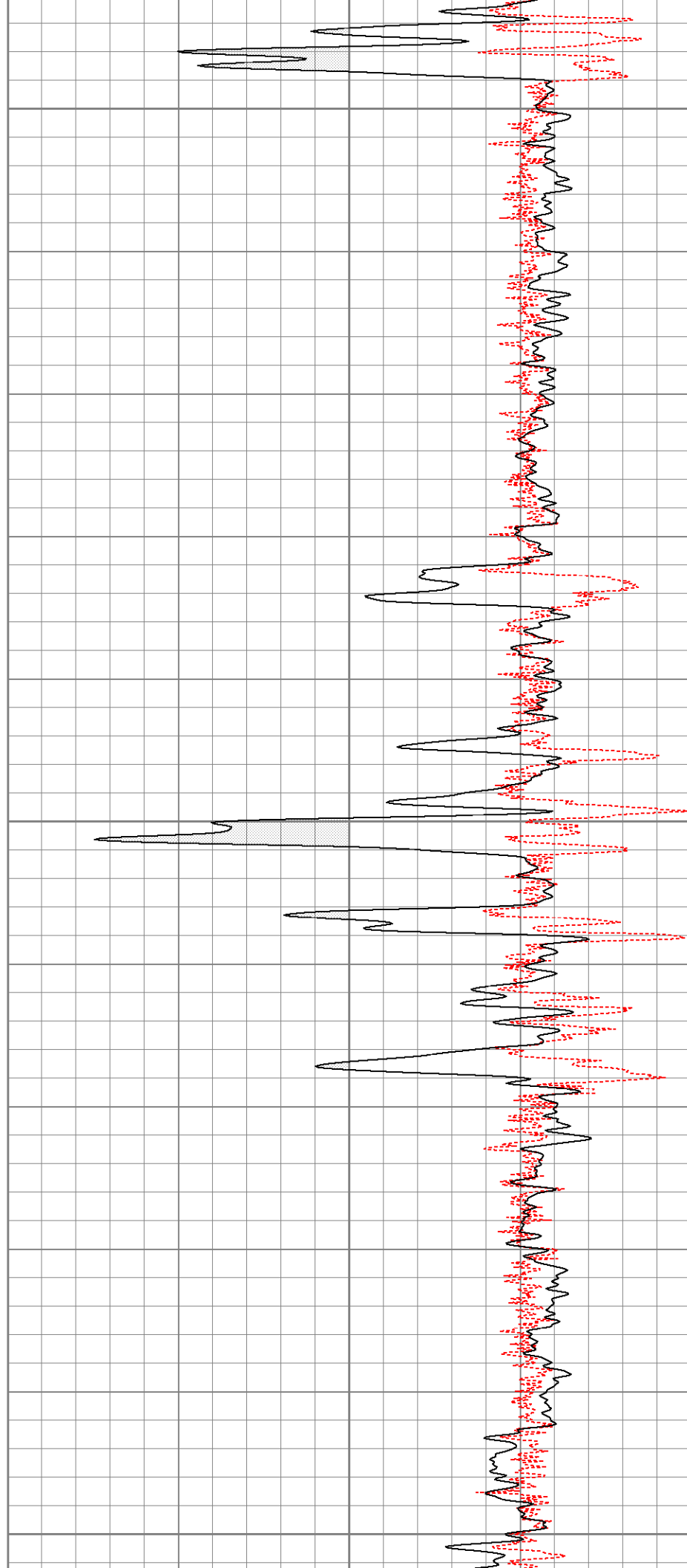


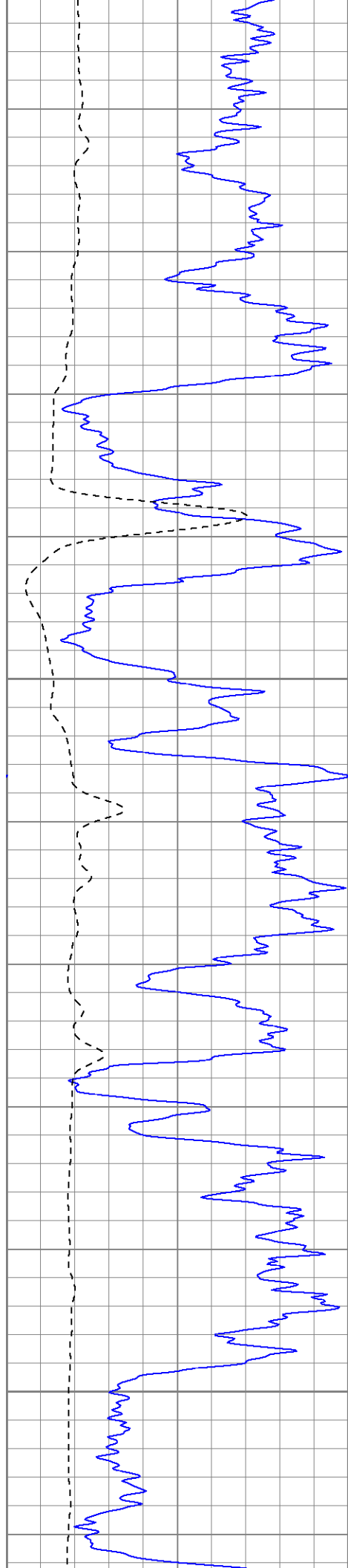


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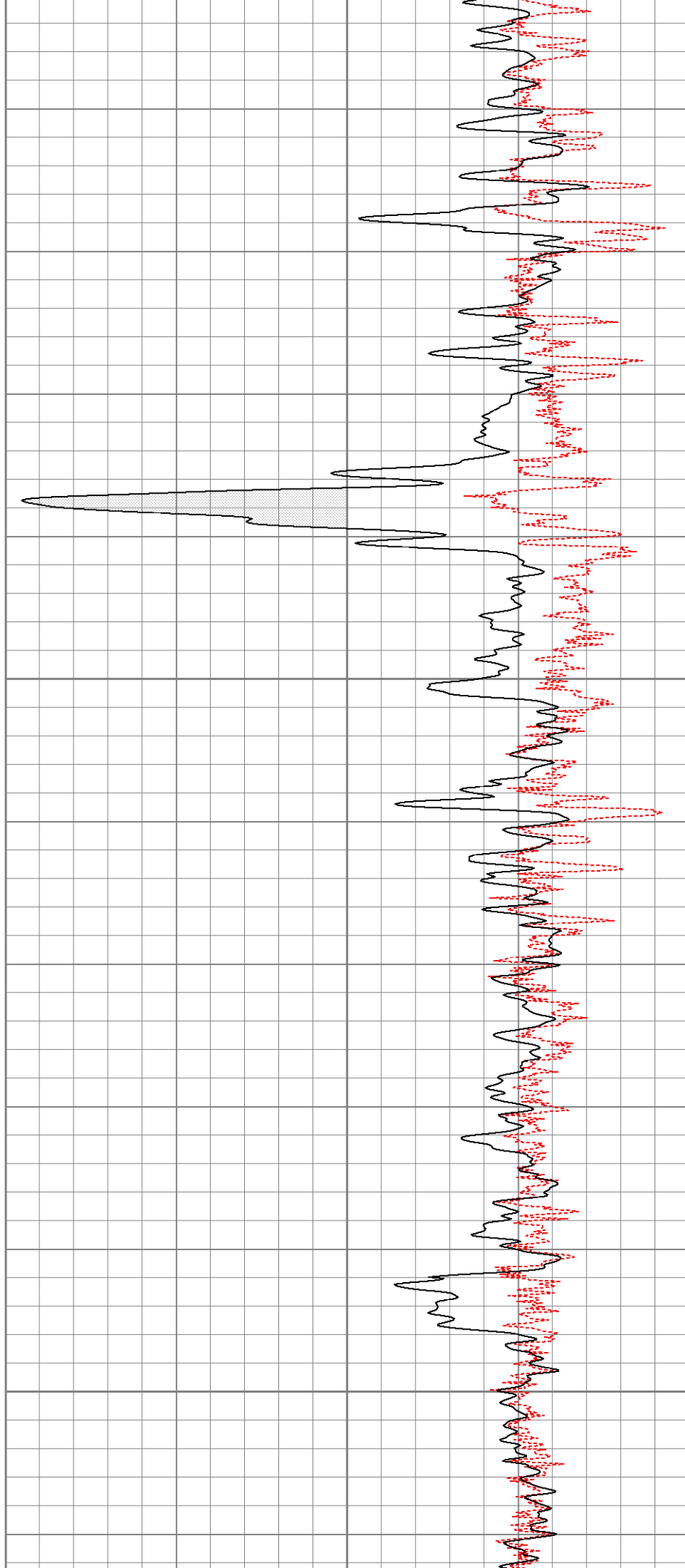
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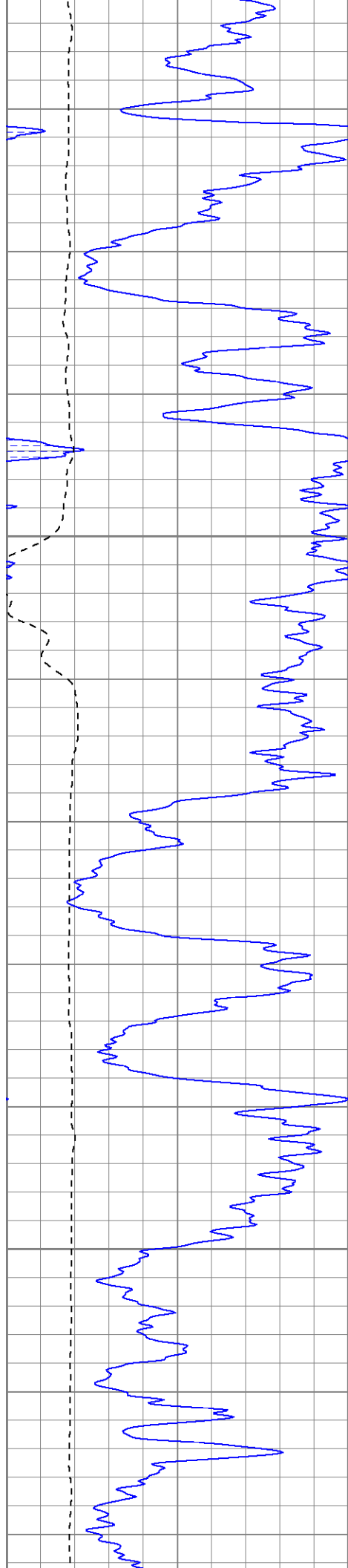




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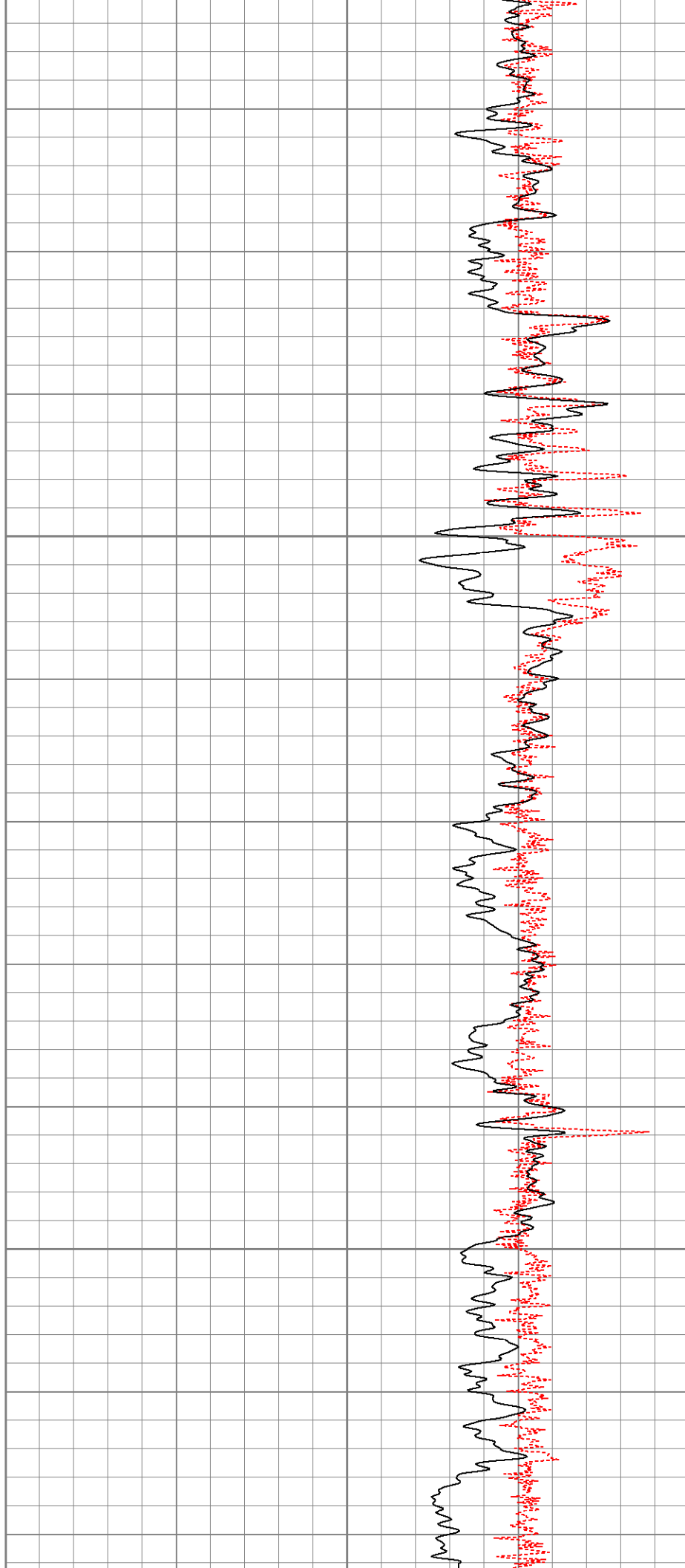
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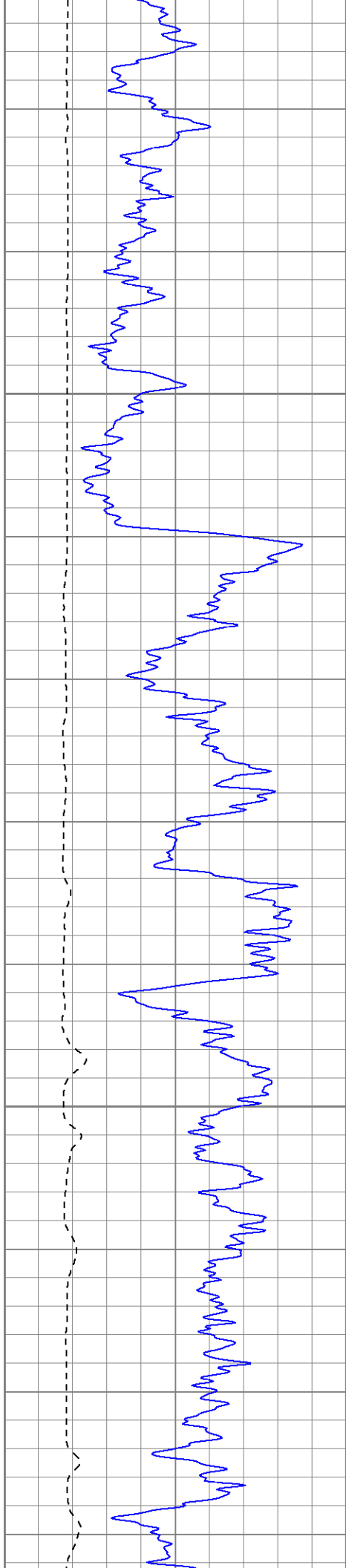




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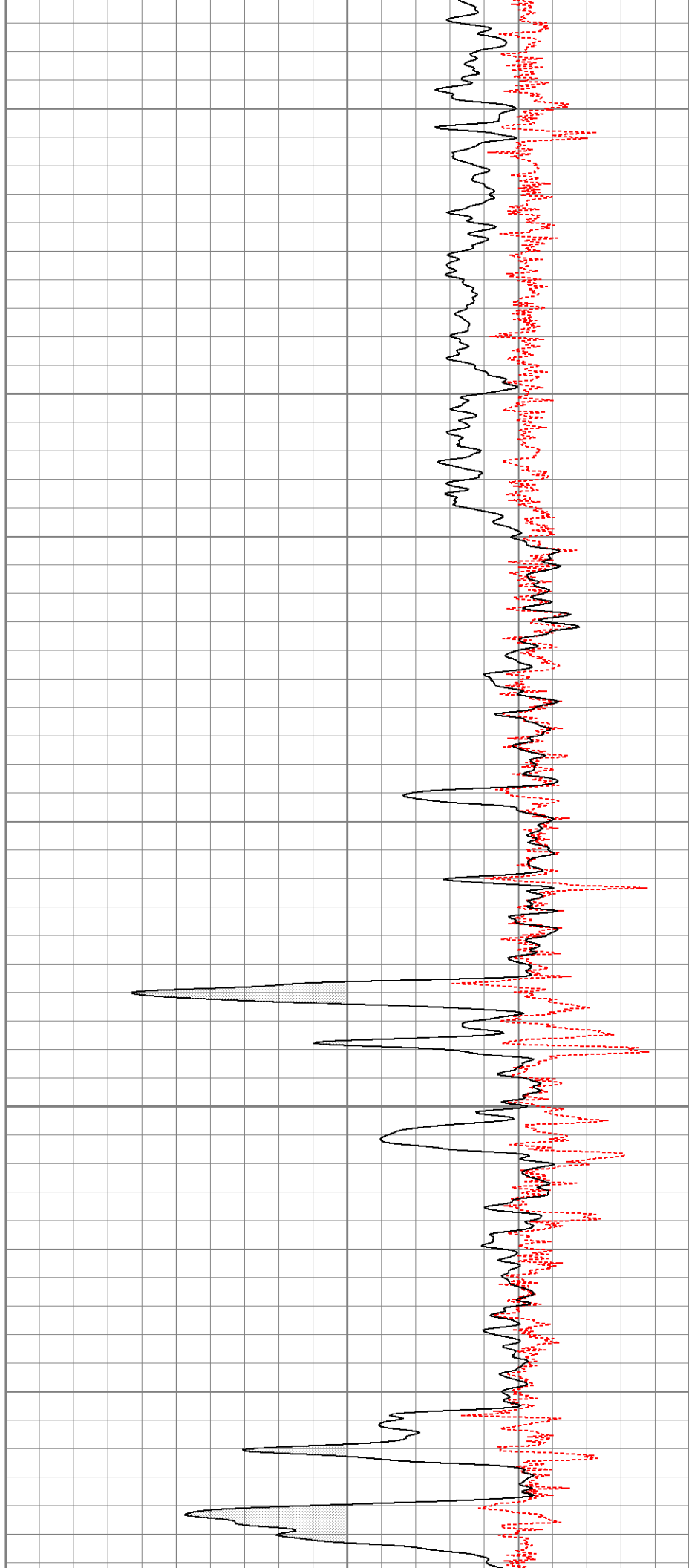
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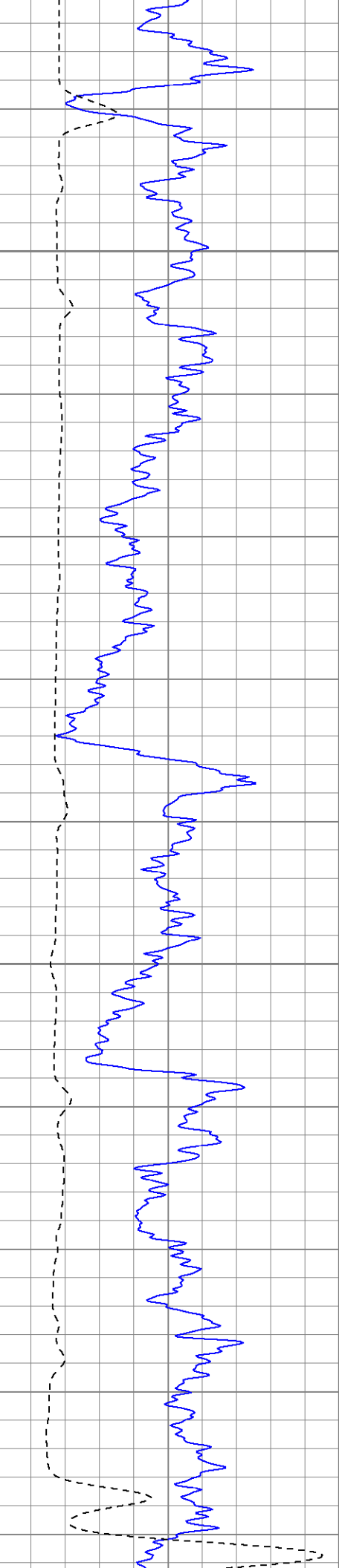




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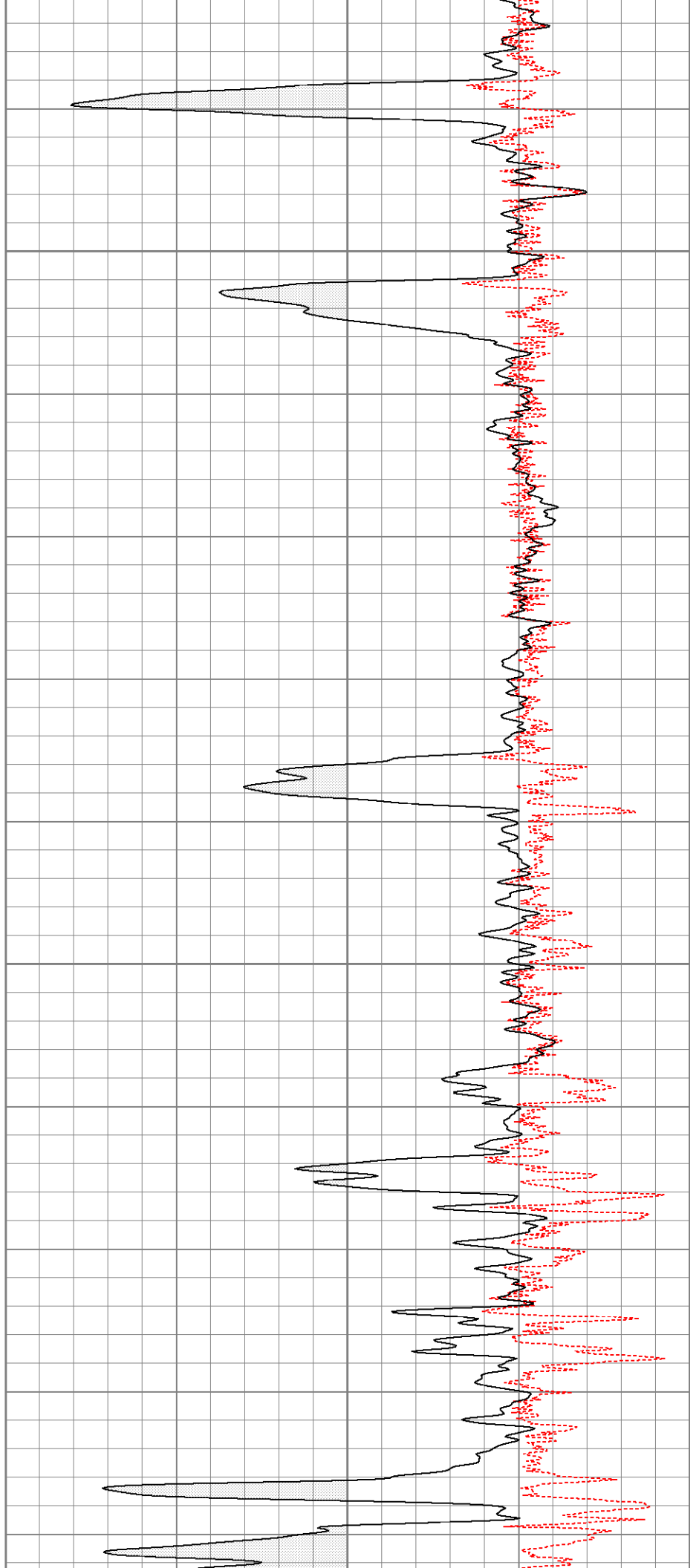
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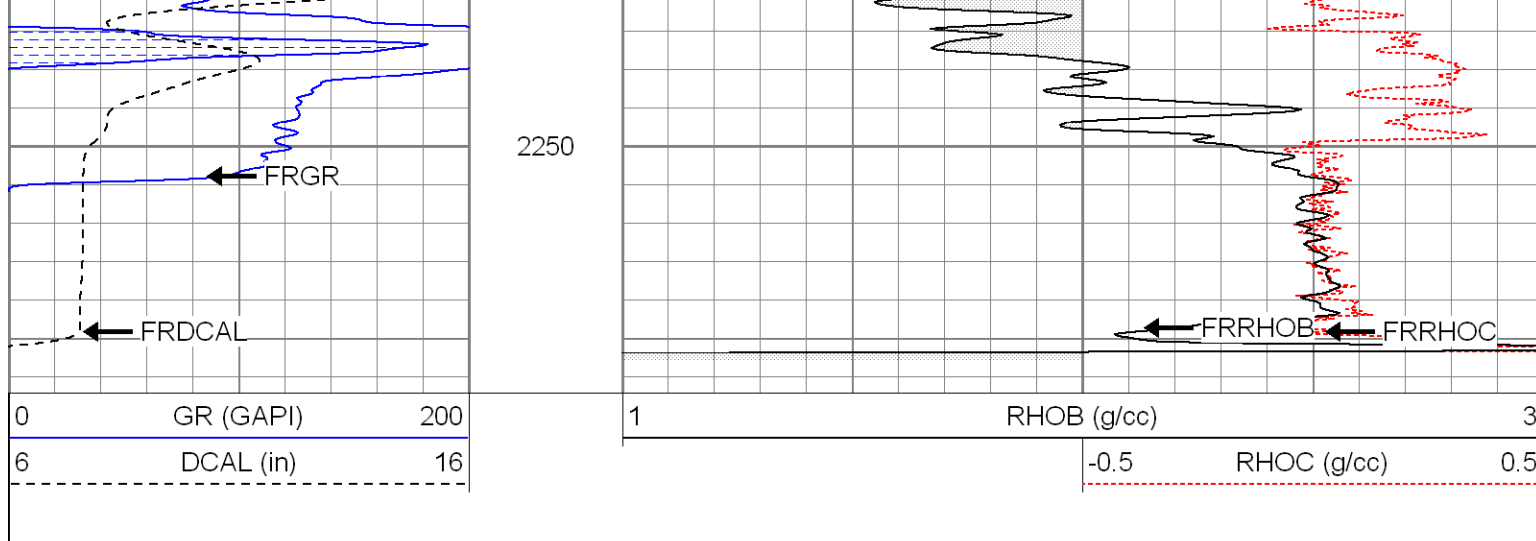




2150

2200





Calibration Report

Database File: xtohr0102.db
 Dataset Pathname: pass1
 Dataset Creation: Thu Mar 12 12:12:06 2009 by Log Open-Cased 071220

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Tue Mar 03 12:05:55 2009
 Downhole Cal Performed: Thu Mar 12 12:06:12 2009

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.002	0.621	V	0.000	500.000	mmho-m	807.905	-1.800
Medium	0.003	0.743	V	0.000	600.000	mmho-m	811.317	-2.798
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.621	V	0.000	500.000	mmho-m	807.937	-1.938
Medium	0.004	0.743	V	0.000	550.000	mmho-m	744.131	-2.816

Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	-1.465	497.071	mmho-m	0.138	500.118	mmho-m	1.003	1.607
Medium	-0.231	548.134	mmho-m	0.250	549.936	mmho-m	1.002	0.482
Shallow	2.505	0.008	V	500.000	2.000	Ohm-m	130.000	0.000

Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT
 Source / Verifier: /
 Master Calibration Performed: Tue Mar 03 14:30:18 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	6217.62
Large Ring	14.00	in	10357.00

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Thu Feb 26 13:18:39 2009

 Calibrator Value: 1.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 0.2500 GAPI/cps


Neutron Calibration Report

Serial Number: 5108
 Tool Model: PROBE
 Performed: Thu Feb 26 13:38:03 2009

 Calibrator Value: 1 NAPI

 Calibrator Reading: 1 cps

 Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.85		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe Epithermal	4.92	3.63	85.00
GR	32.32		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	23.78					
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
CILD	10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset:	xtohr0102.db: field/well/run1/pass1
Total Length:	40.39 ft
Total Weight:	676.00 lb
O.D.	4.00 in