



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 30-12
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09239 00

1704' FSL & 734' FWL

SEC 30 TWP 33S RGE 67W

Permanent Datum	Ground Level	Elevation	7888'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Other Services
DIL
Elevation
K.B. -----
D.F. -----
G.L. 7888'

Date	1-30-08		
Run Number	One		
Depth Driller	2400'		
Depth Logger	2403'		
Bottom Logged Interval	2380'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 495'		
Casing Logger	495'		
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	5:30 P.M.		
Time Logger on Bottom	9:00 P.M.		
Maximum Recorded Temperature	112 DEG F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	J. Cappellucci		
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

Neutron Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Well Directions:
Hwy 12 , second entrance to Bosque, across tracks, stay left at Y,
to Cerilla Canyon, through green gate, take first right, GE 30-12
is the third drive through location.



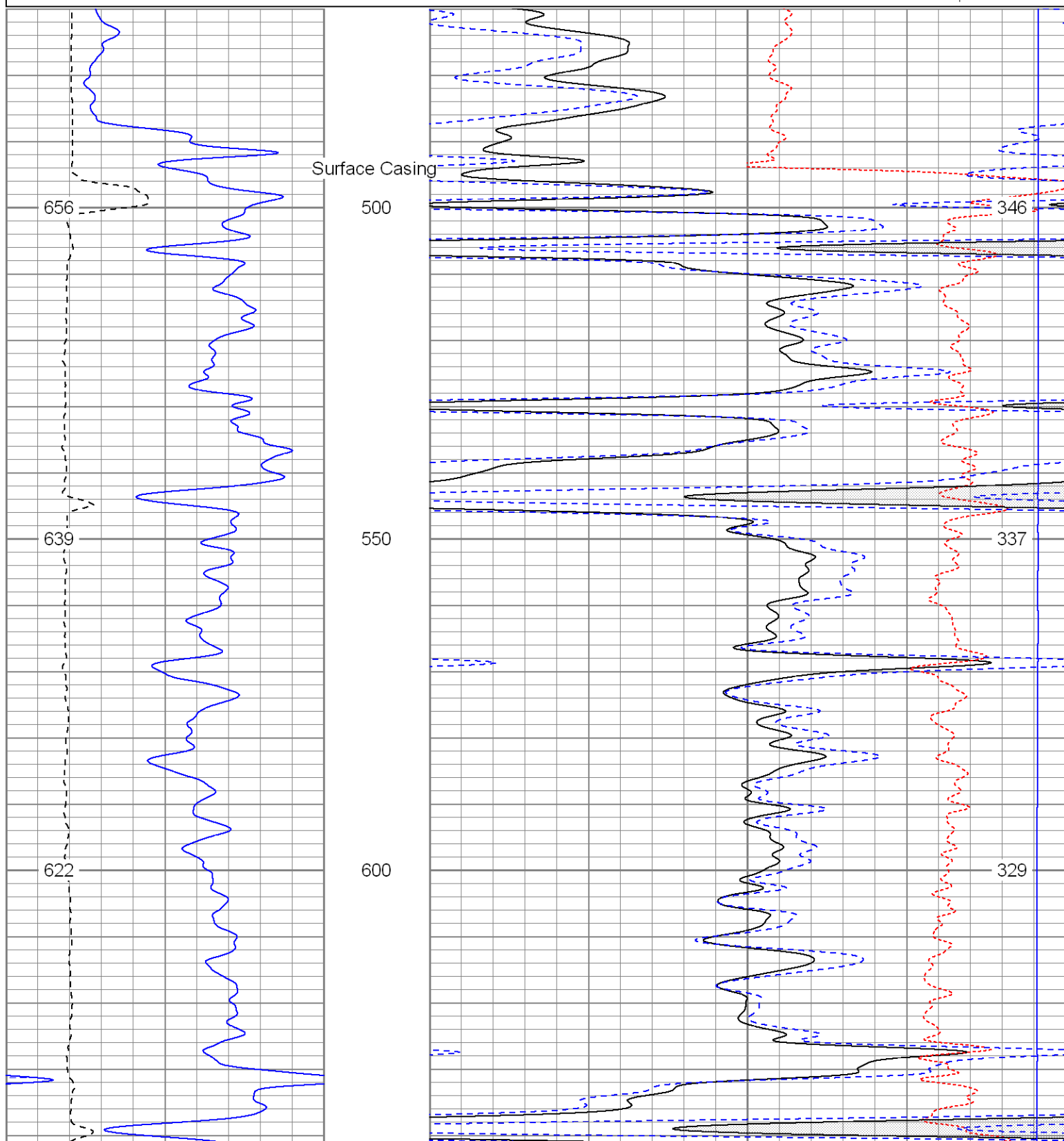
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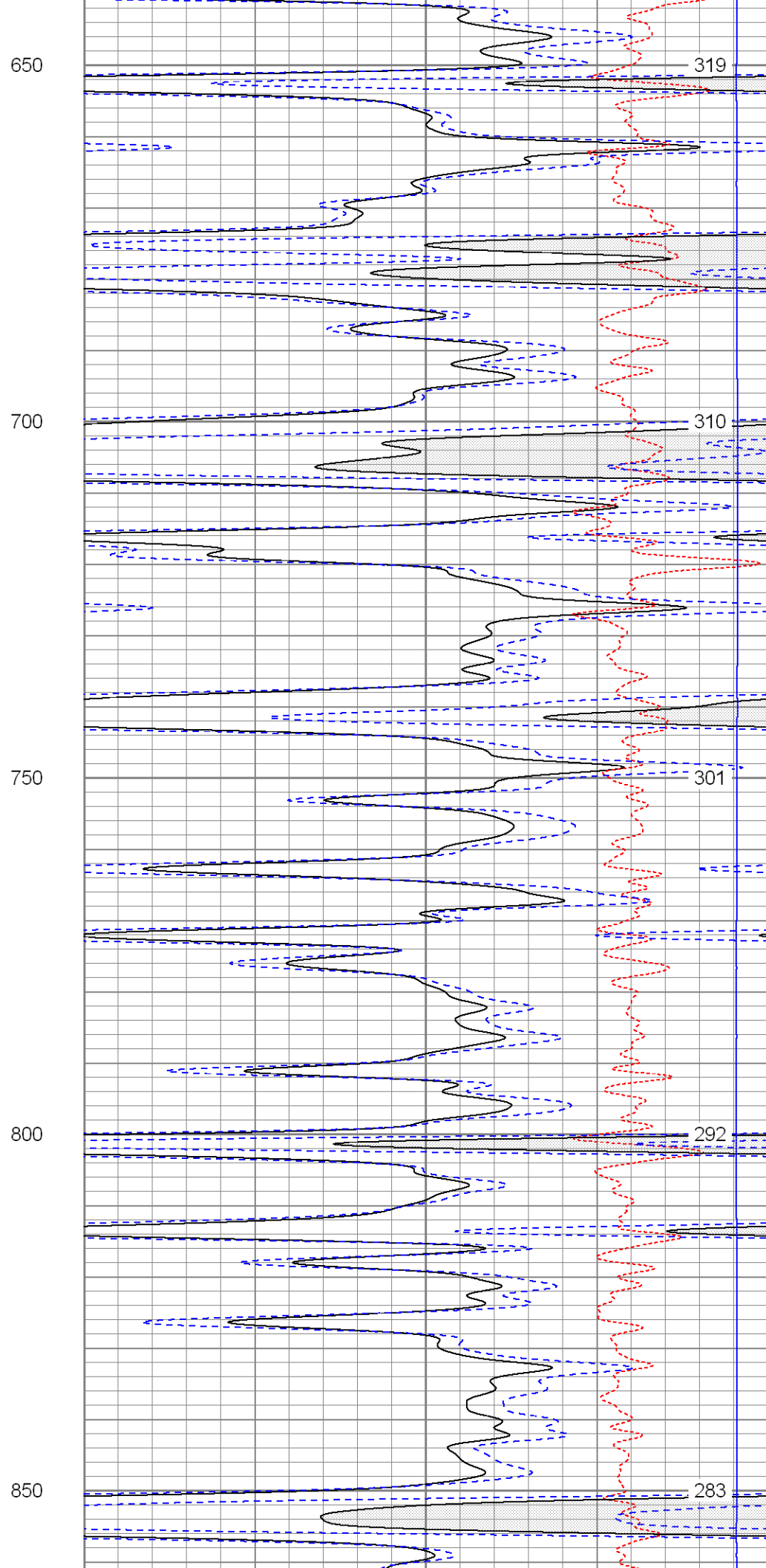
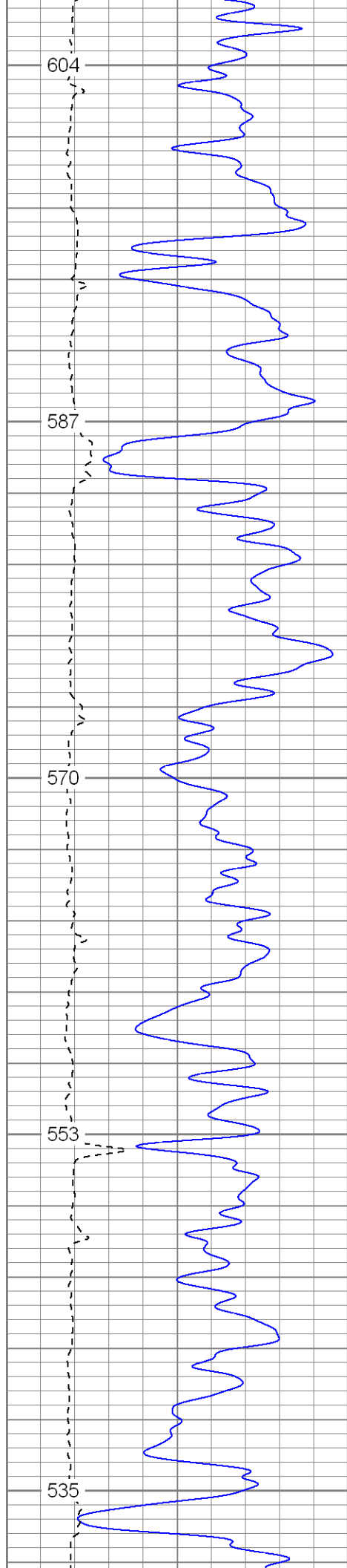
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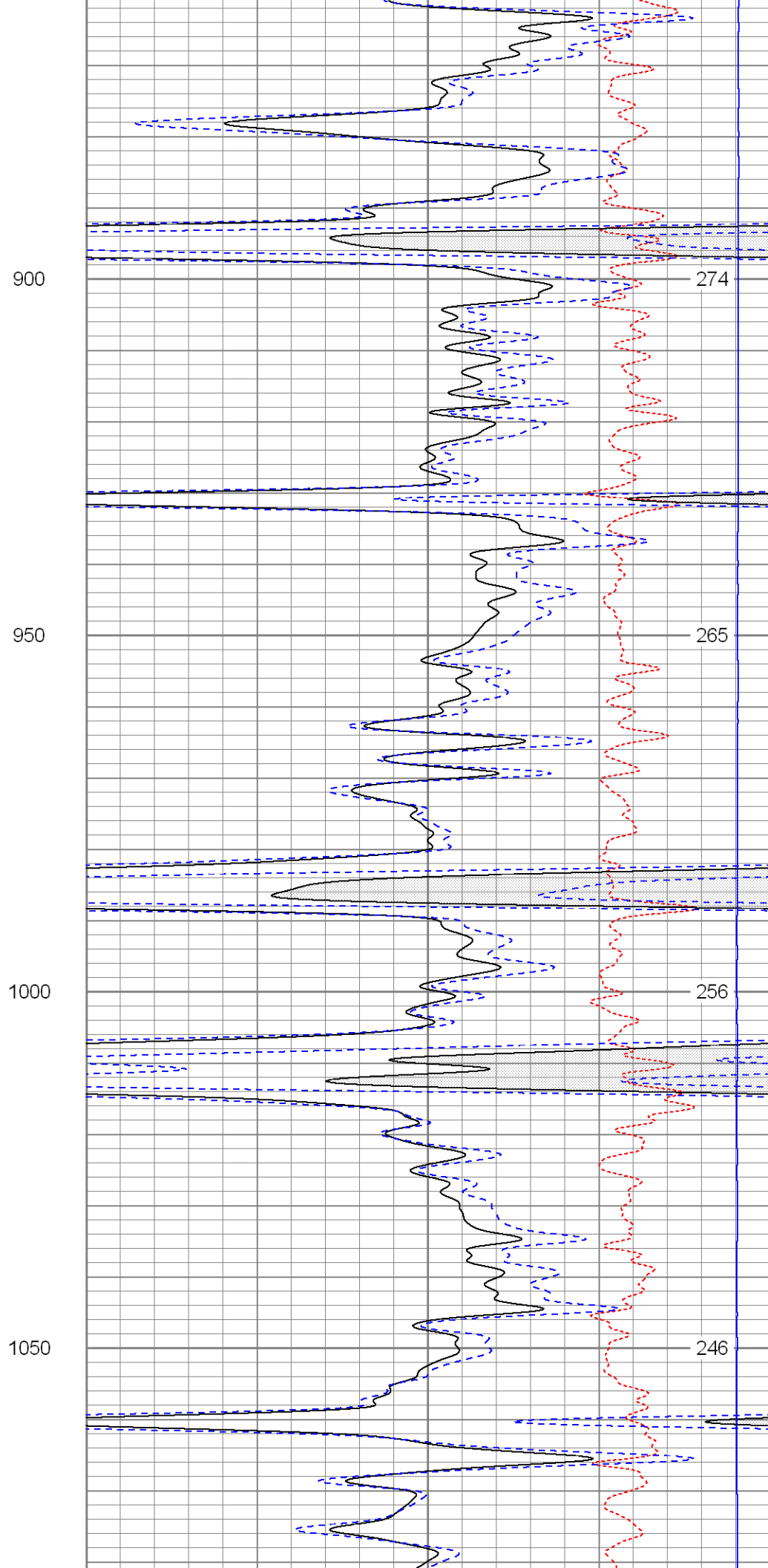
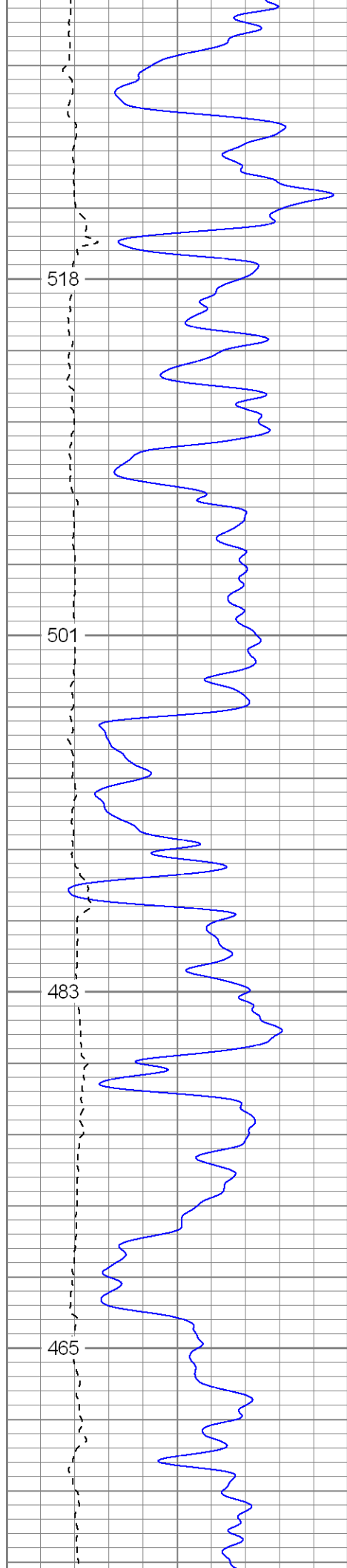
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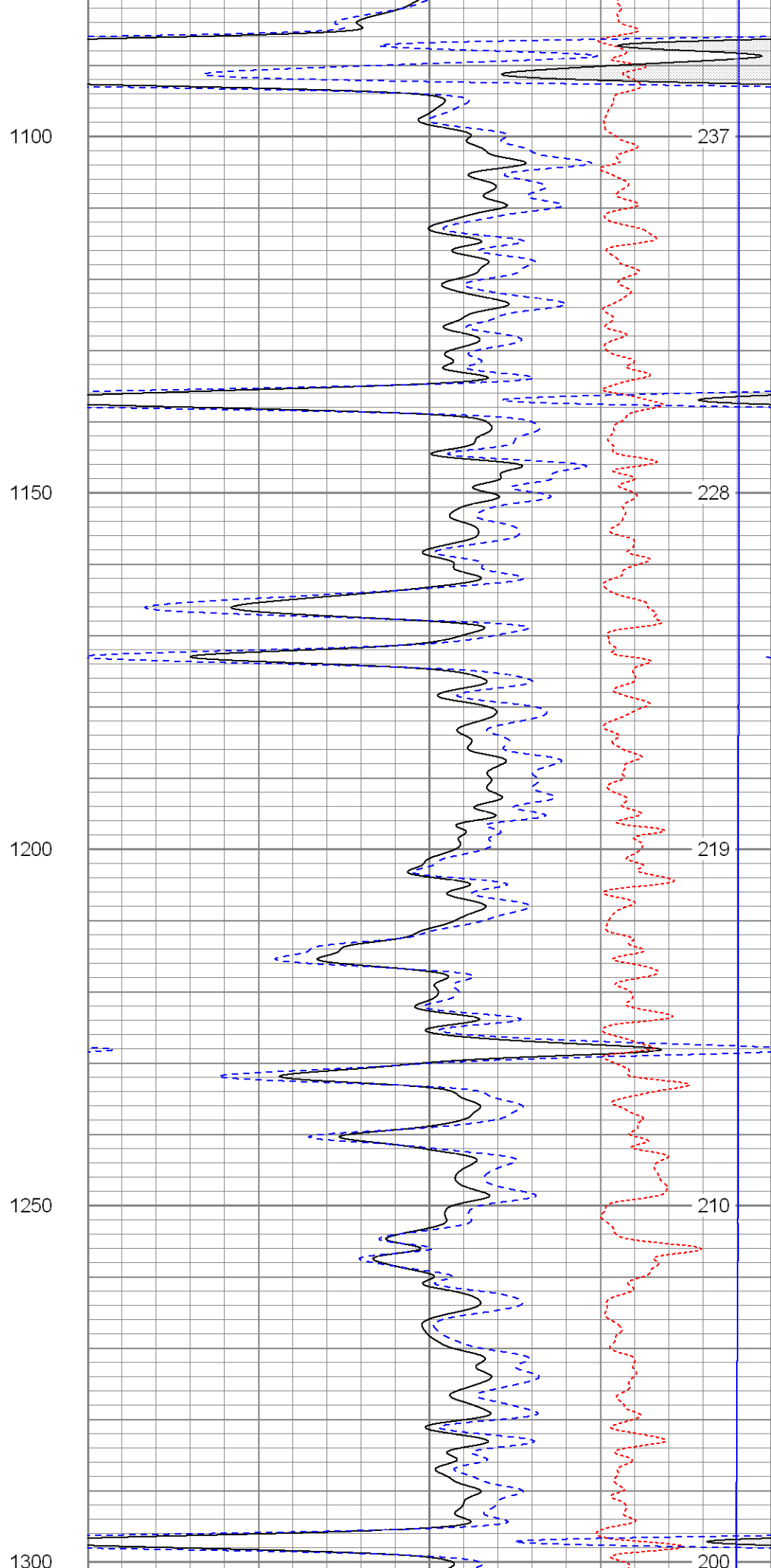
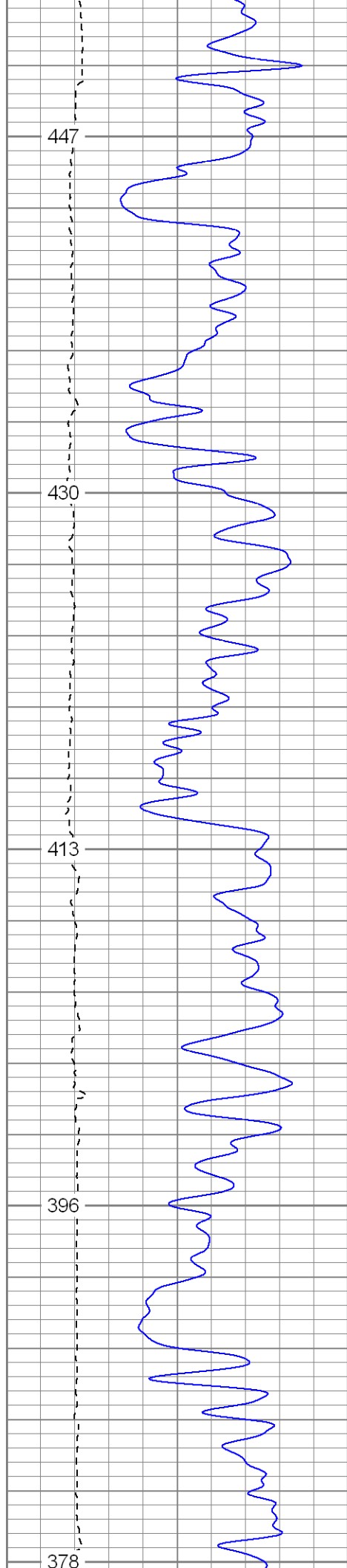
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6	DCAL (in)	16
TBHV (ft3)		

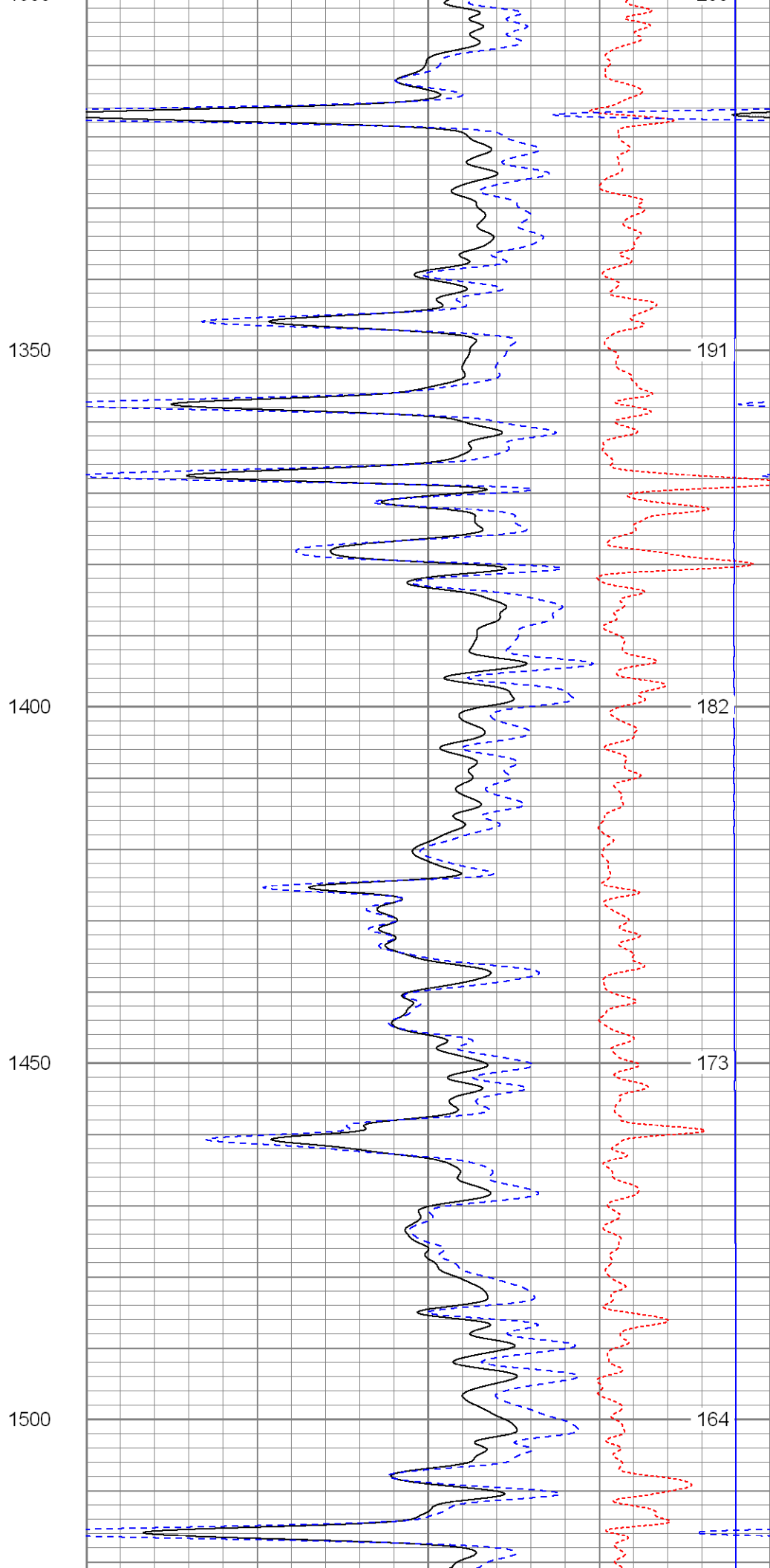
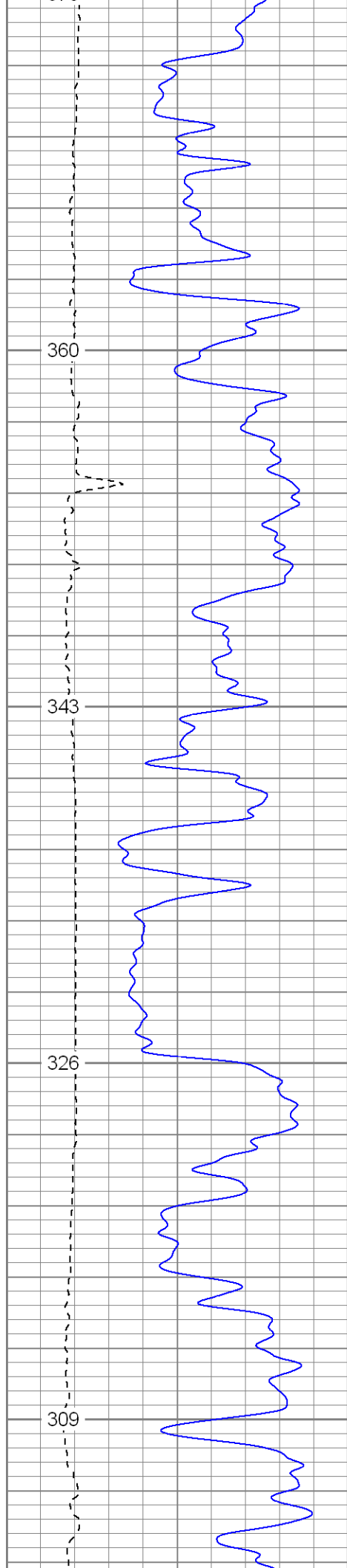
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
		ABHV (ft3)

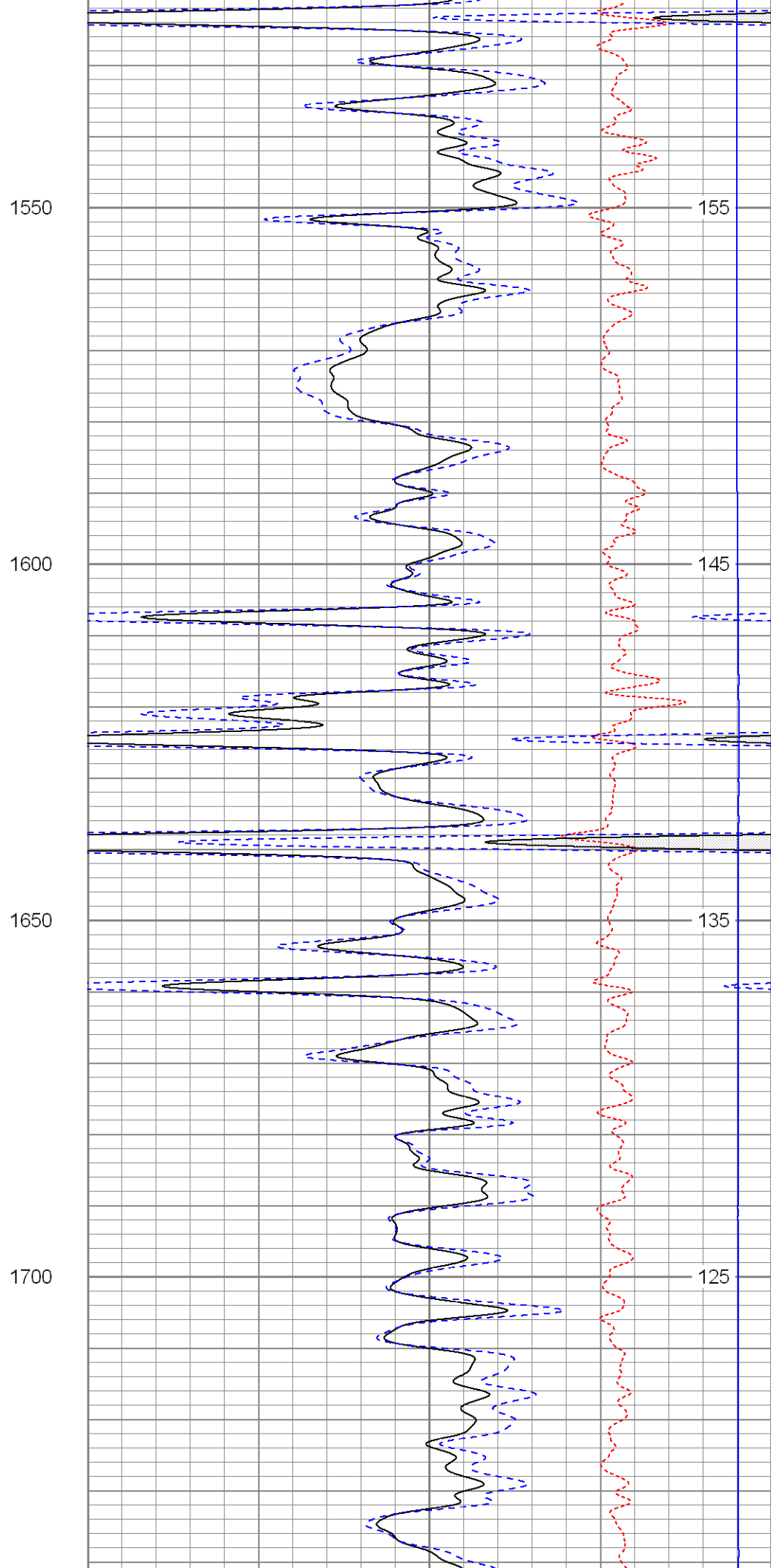
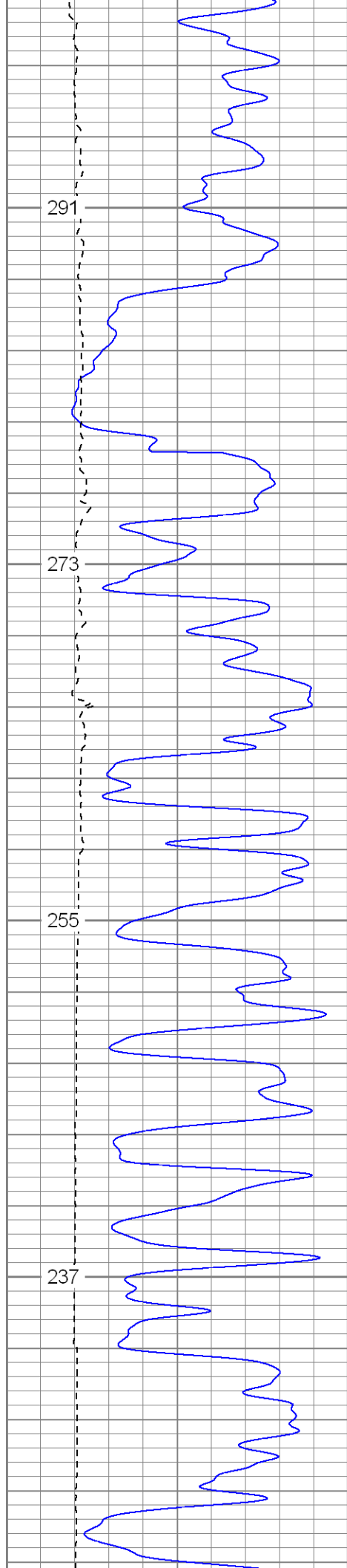


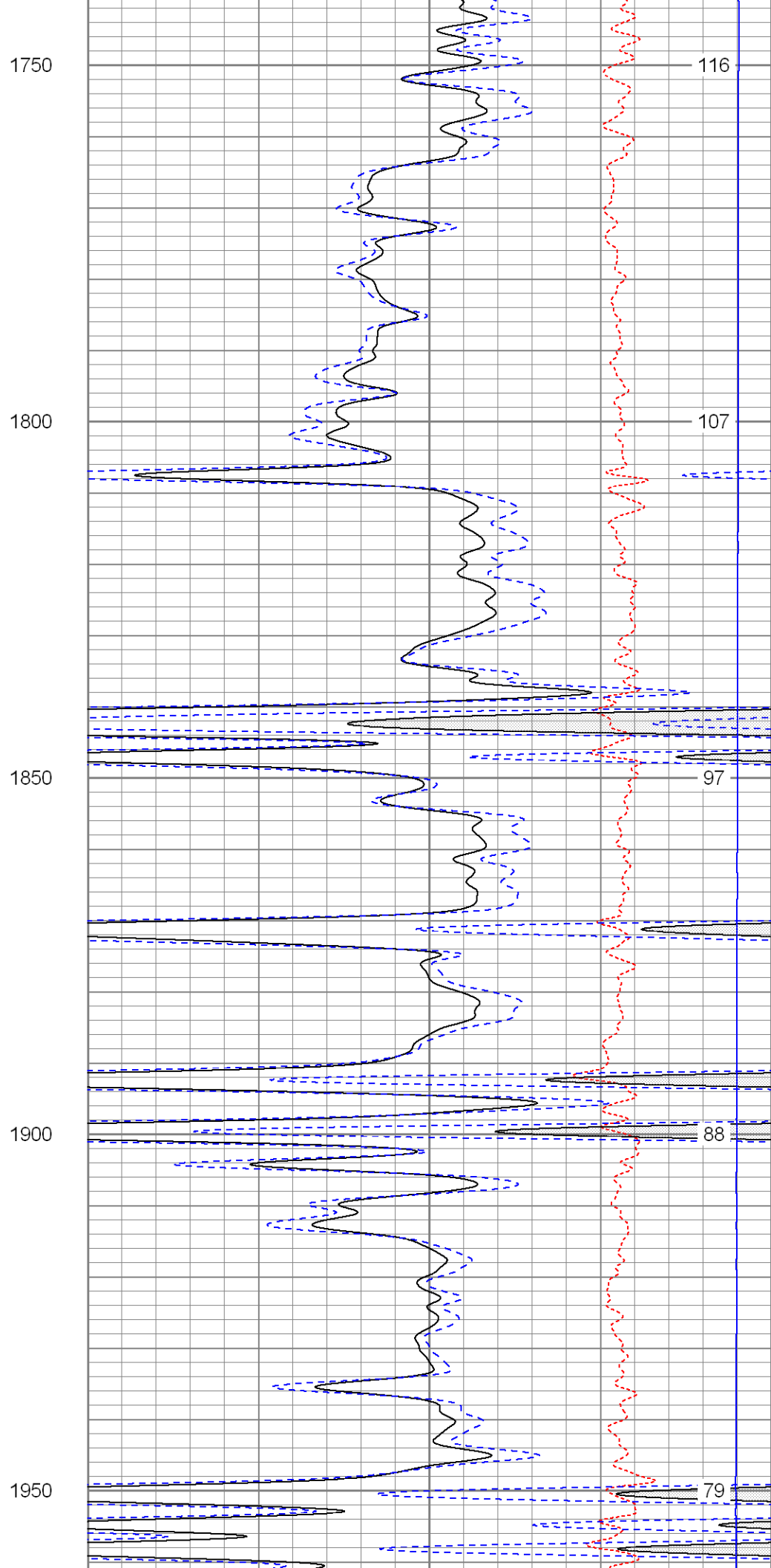
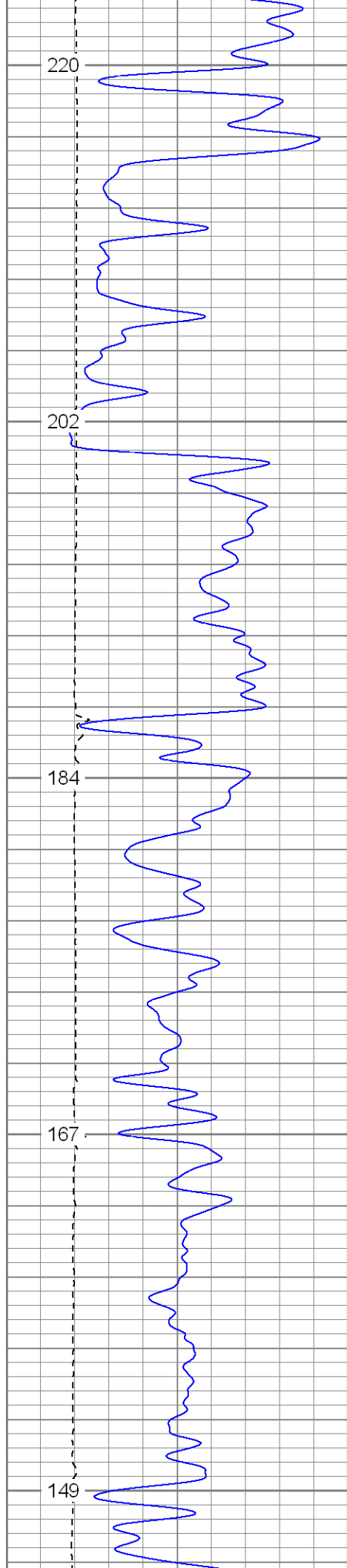


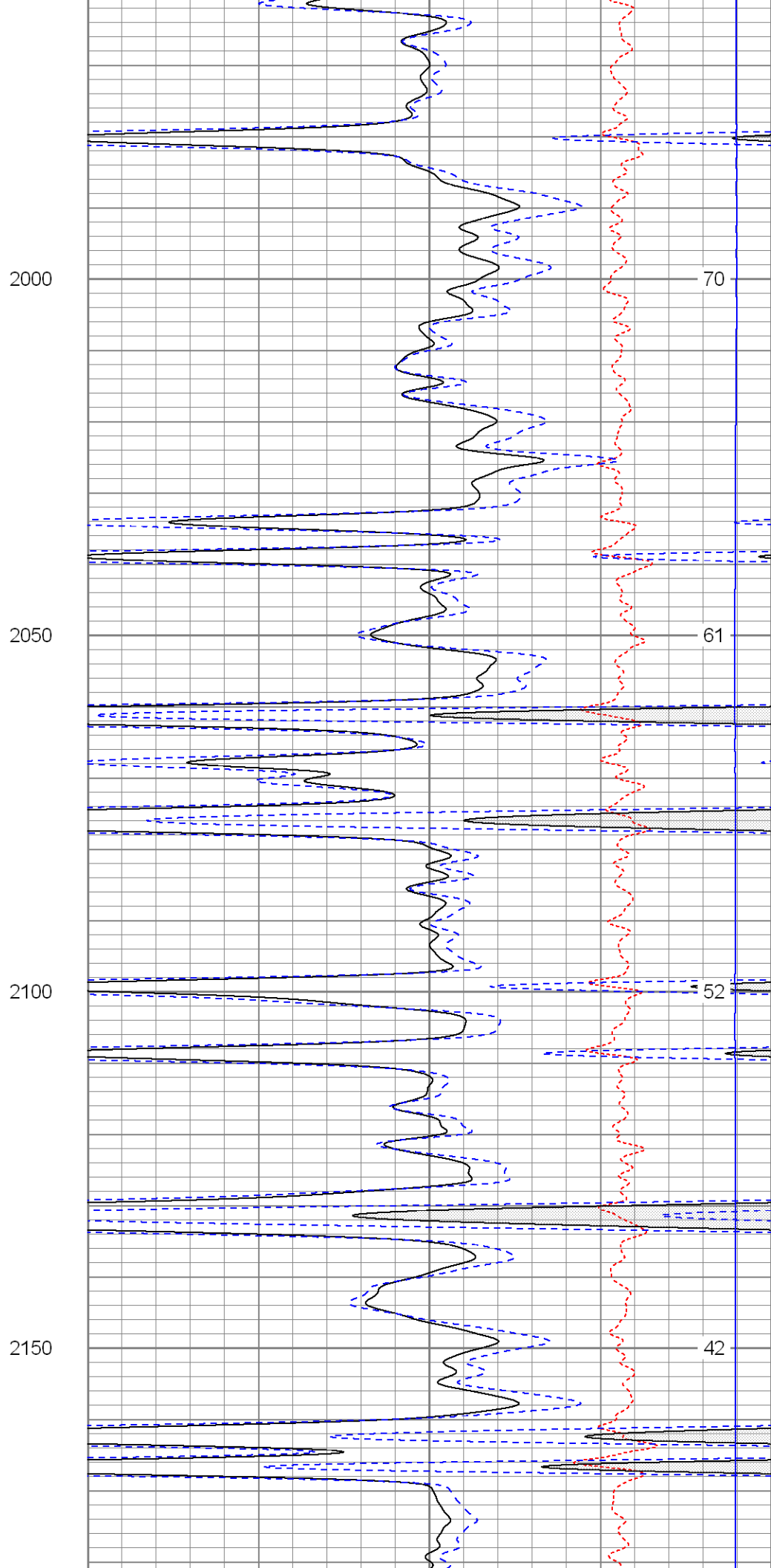
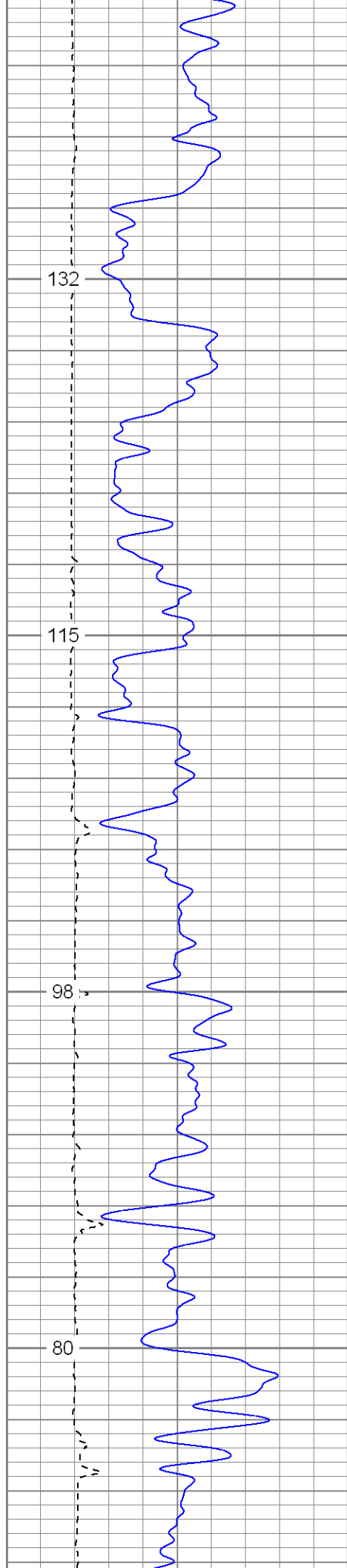


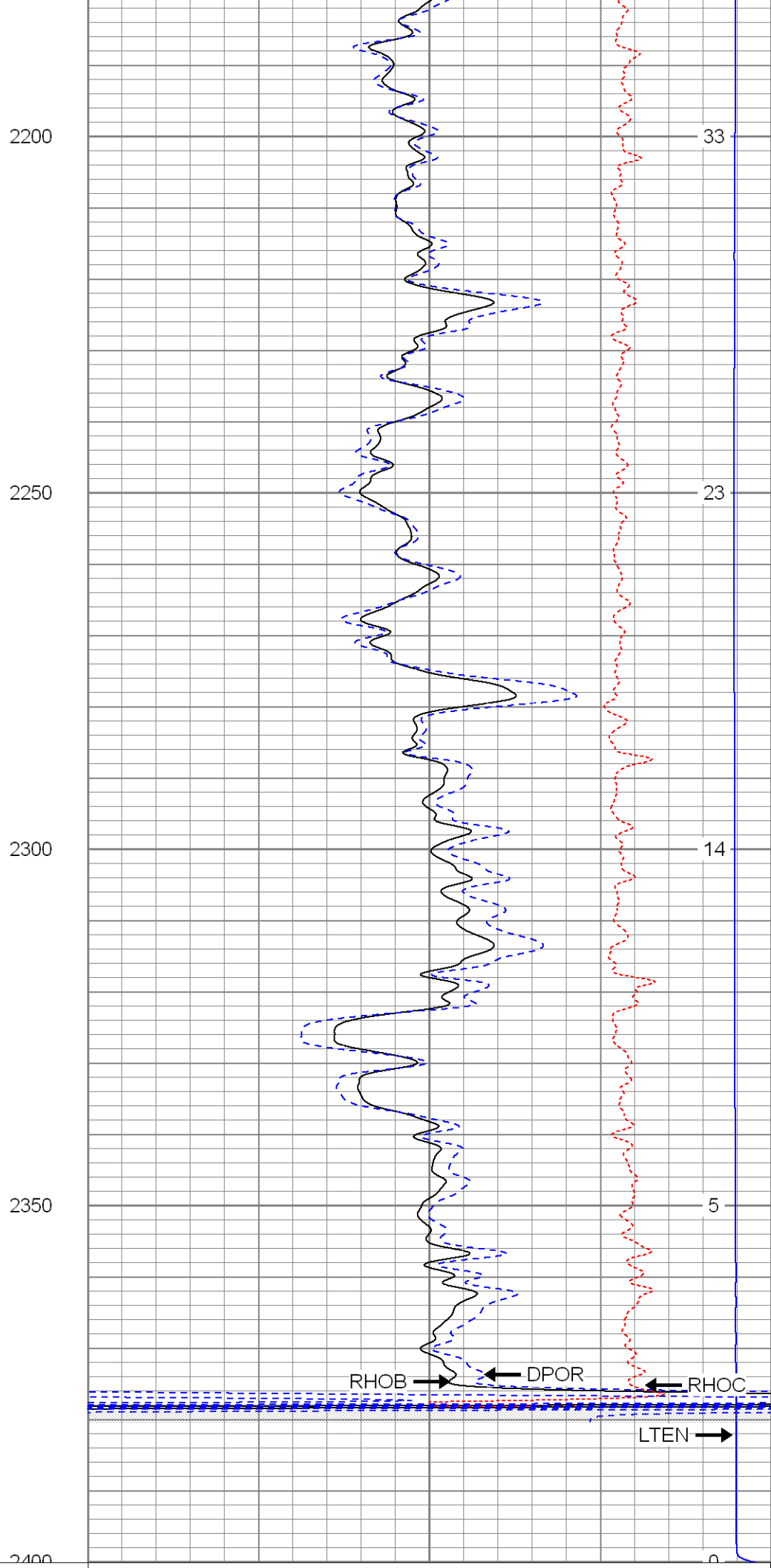
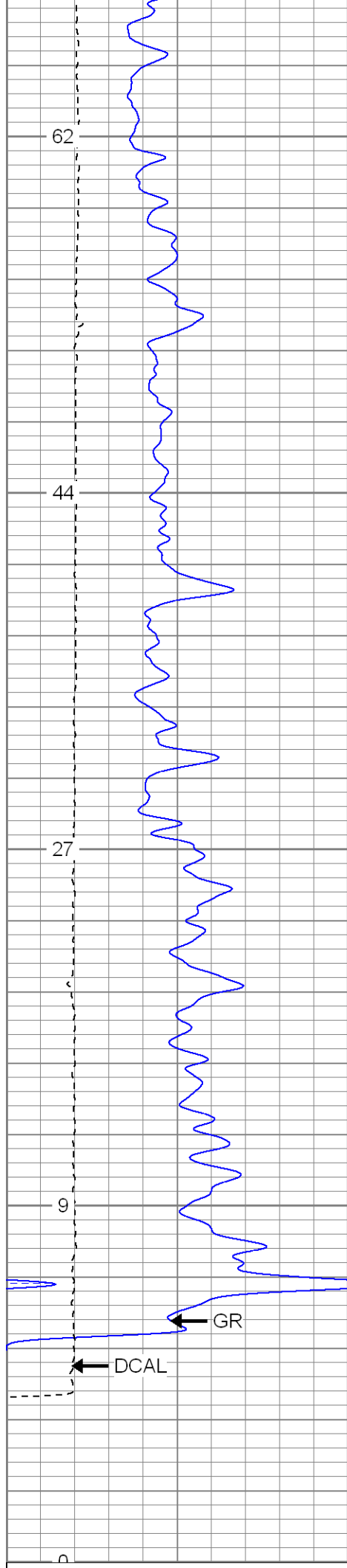












0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

2	RHOB (g/cc)	3
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-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		



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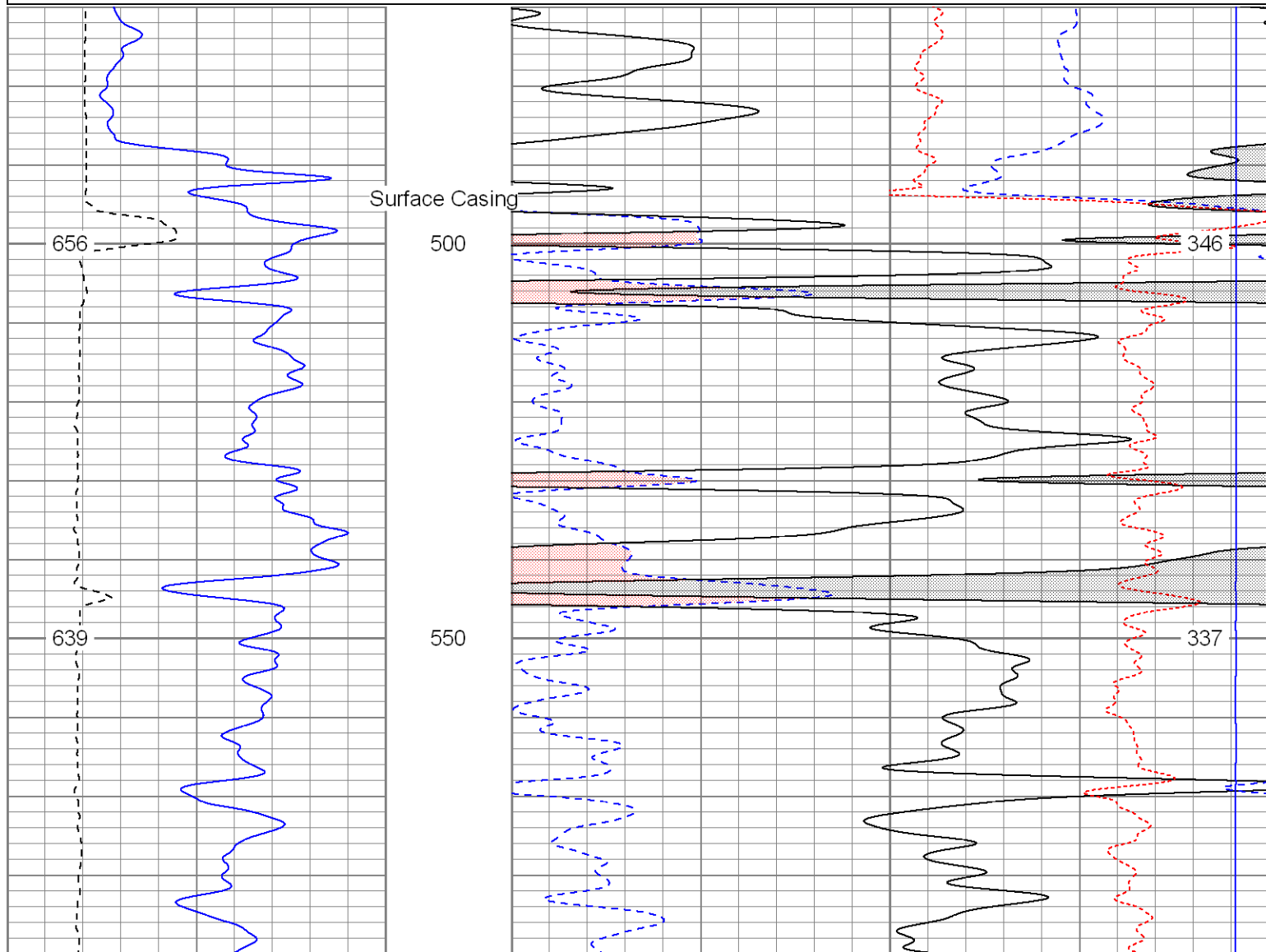
Black Lick, Pa.
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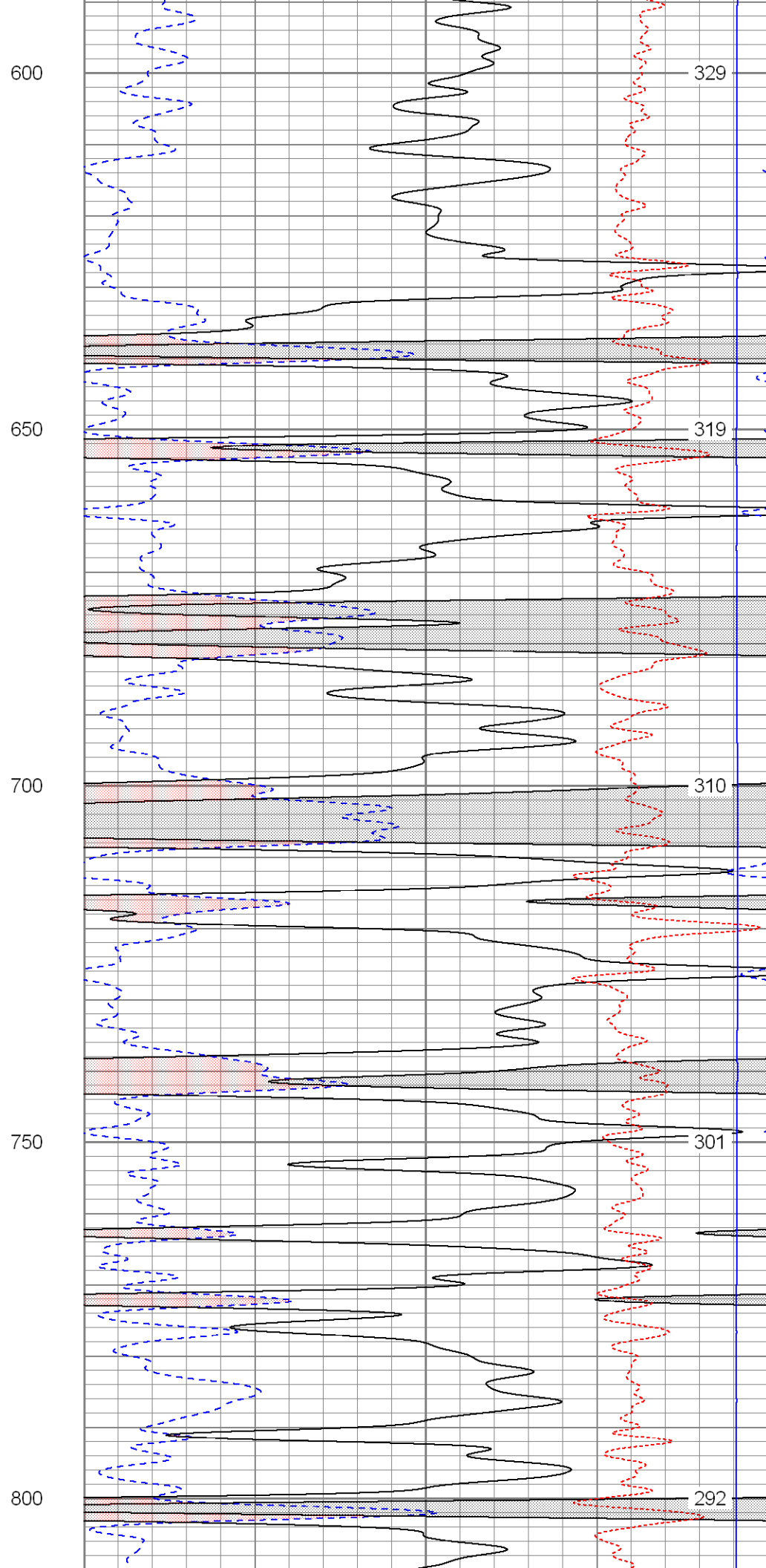
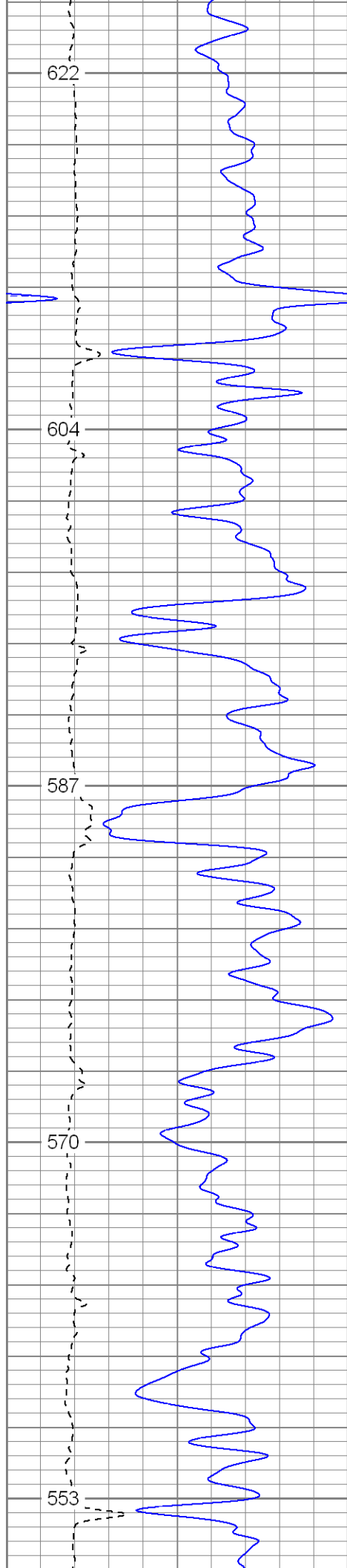
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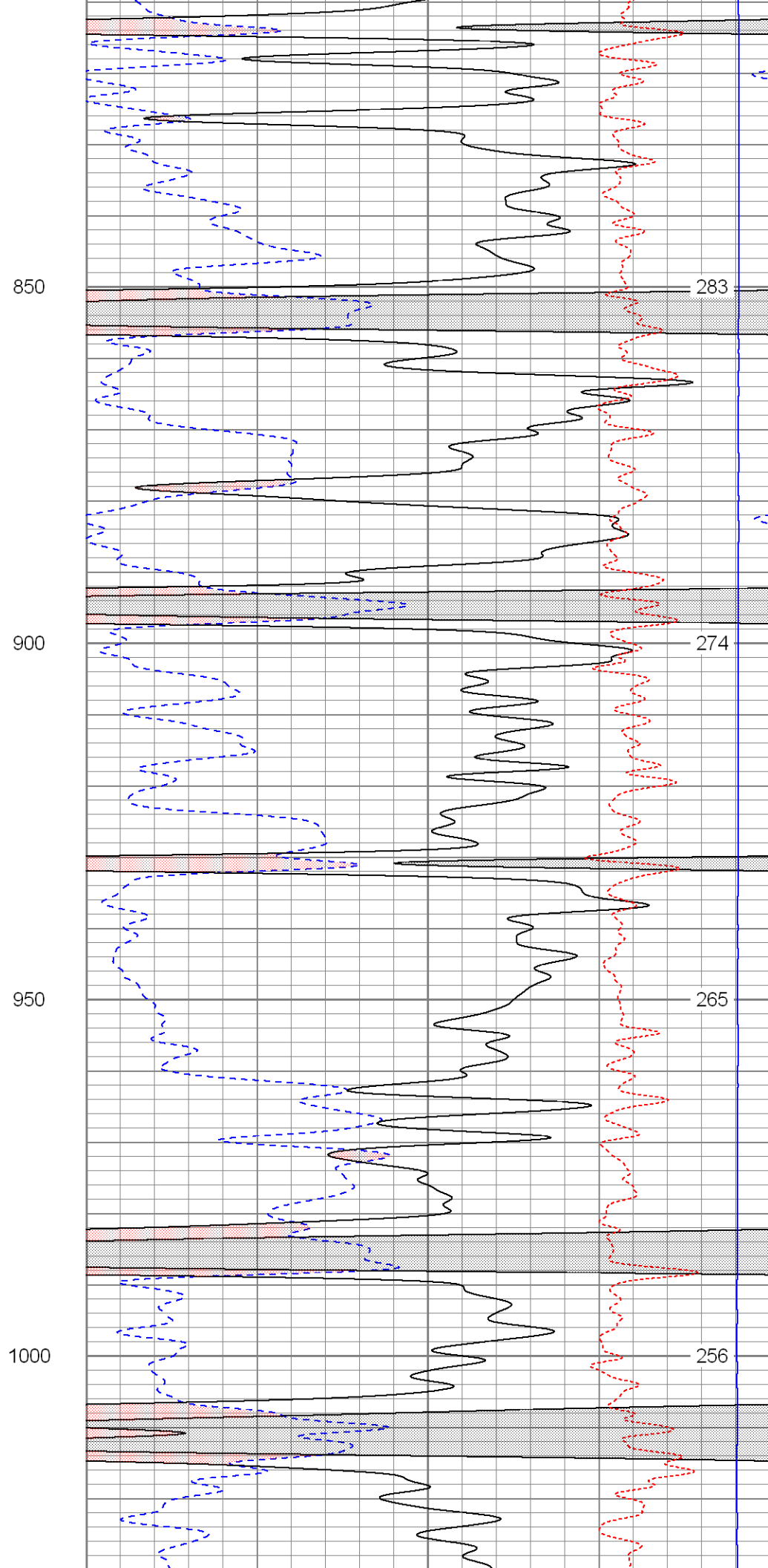
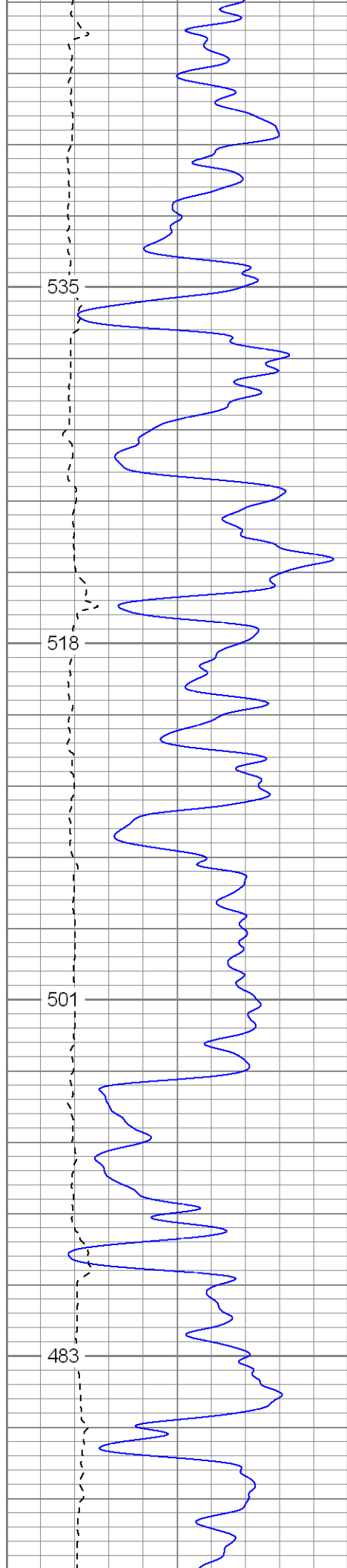
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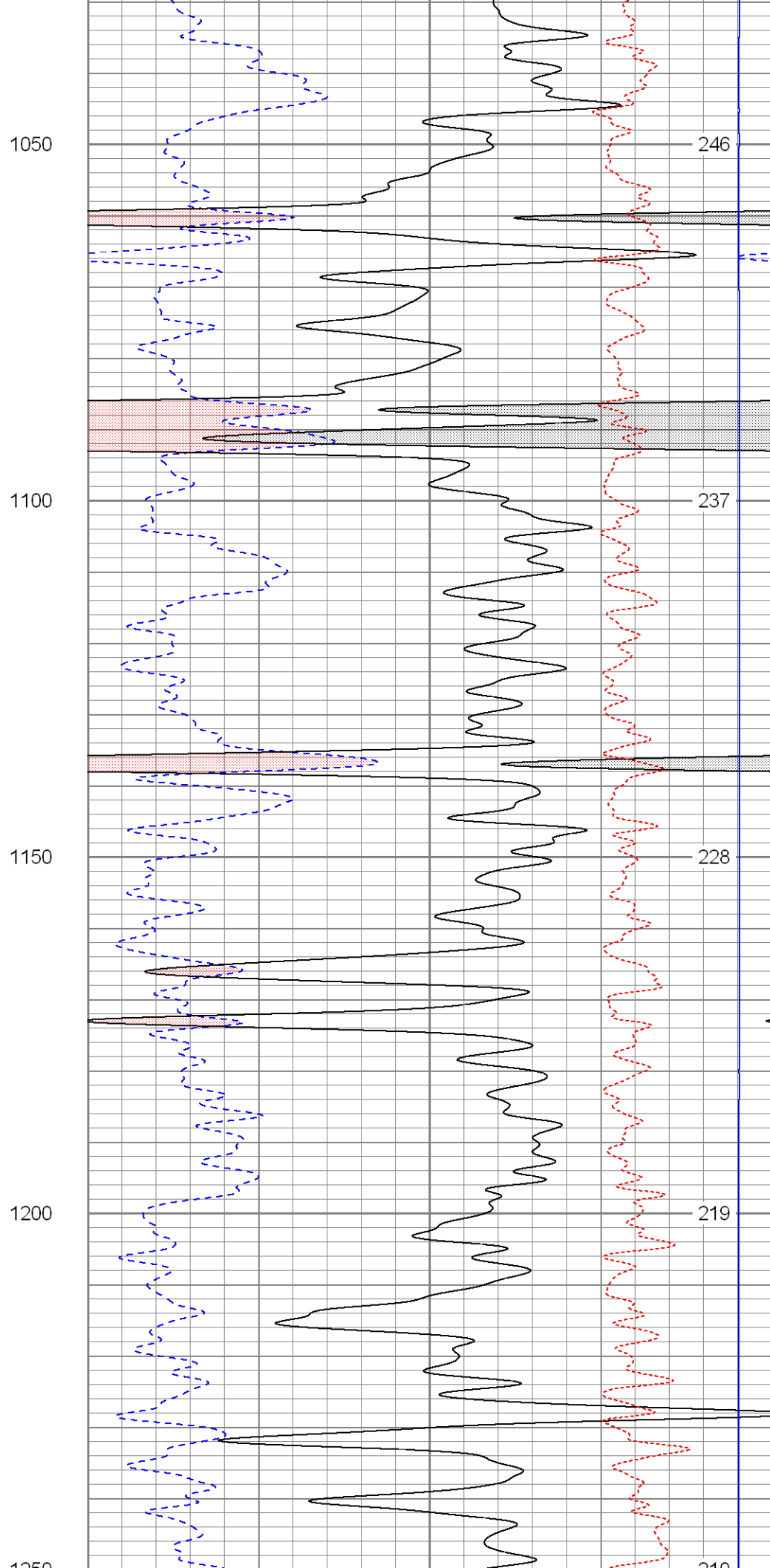
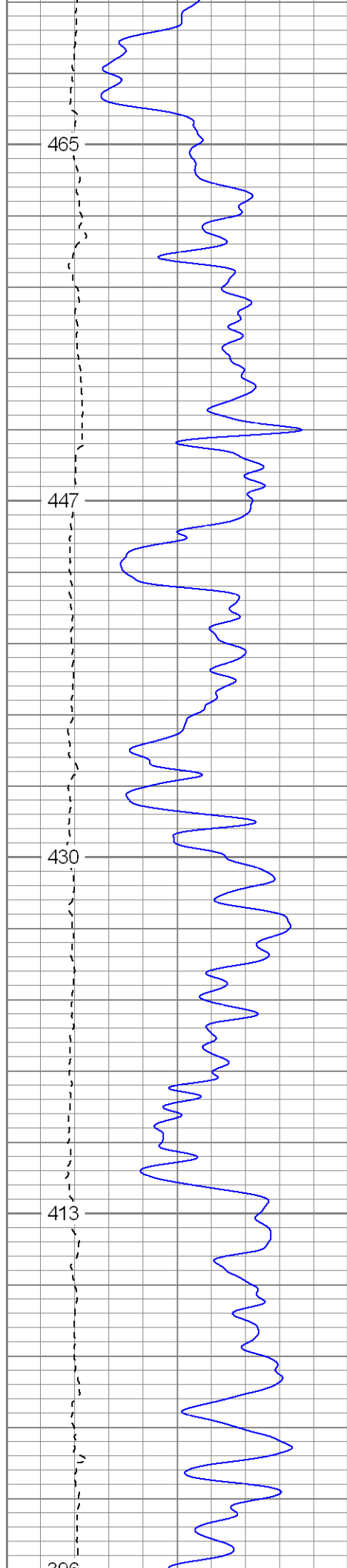
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

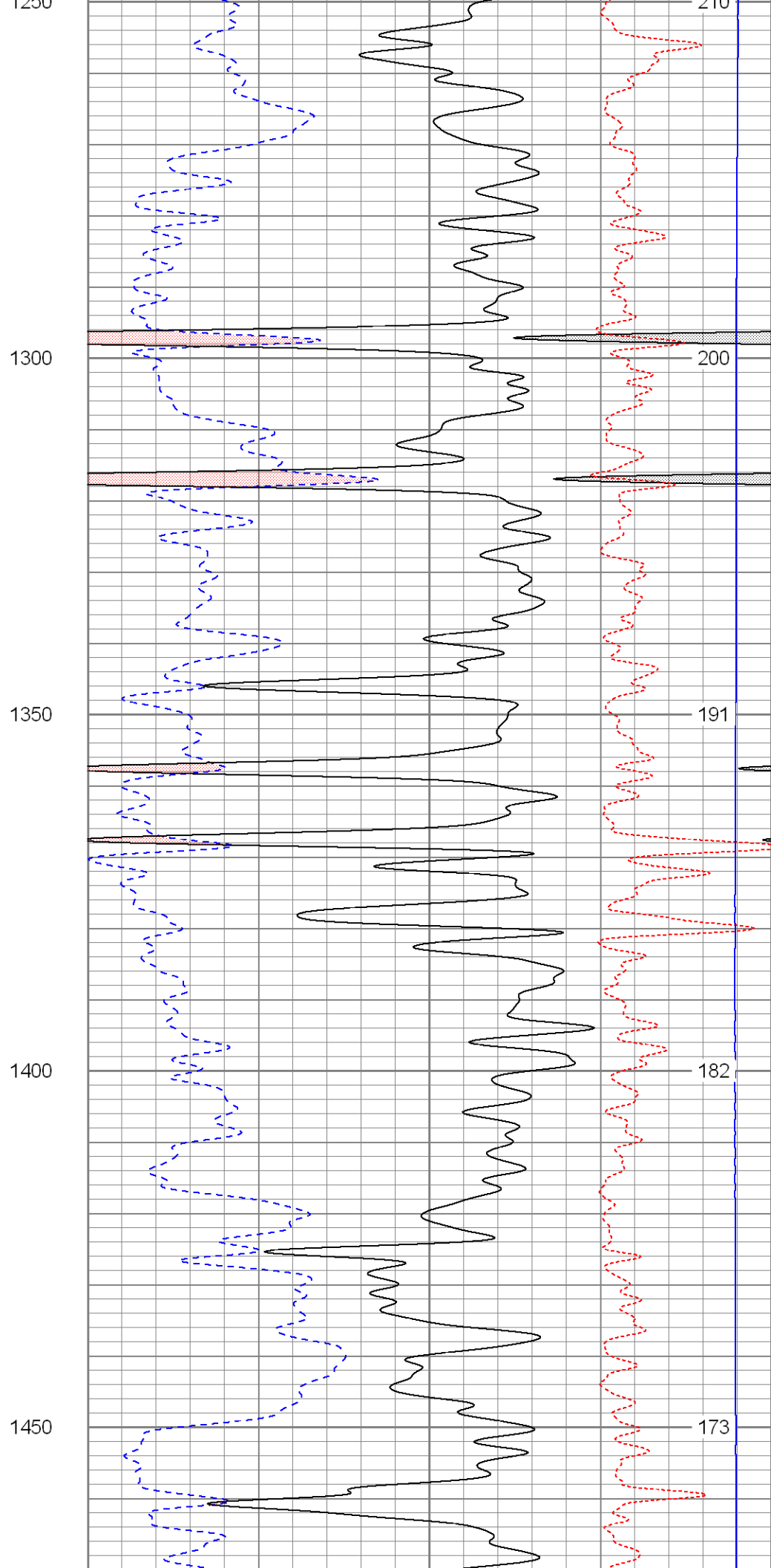
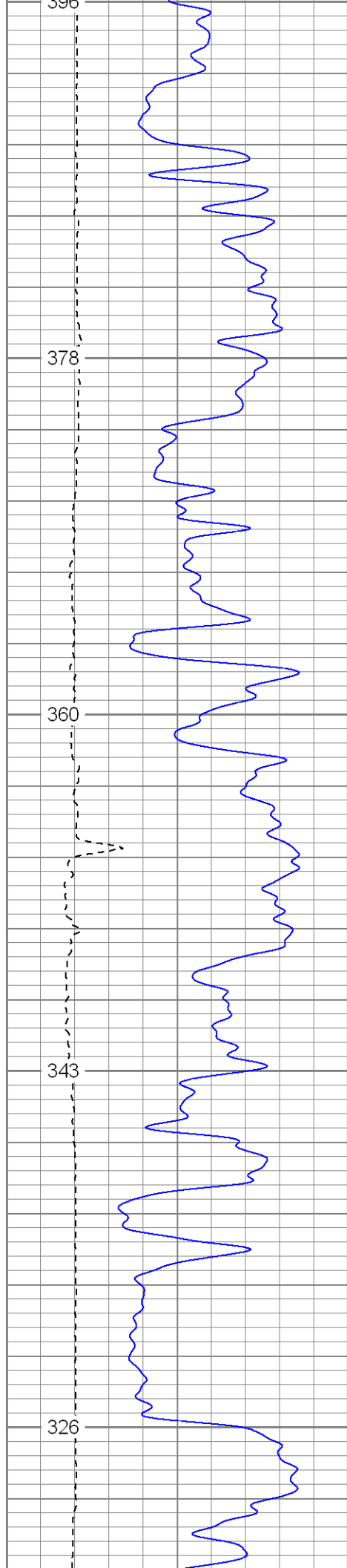
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		

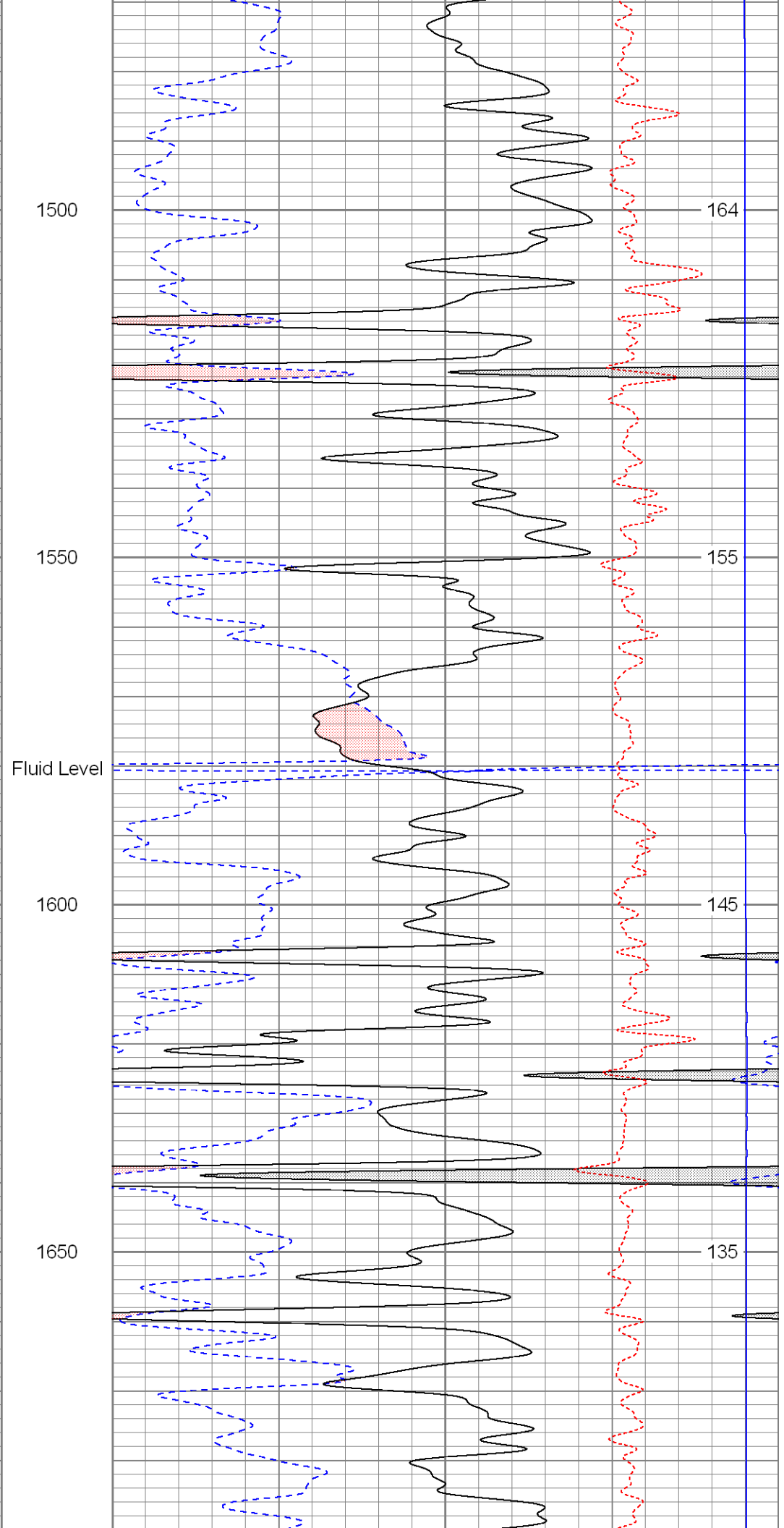
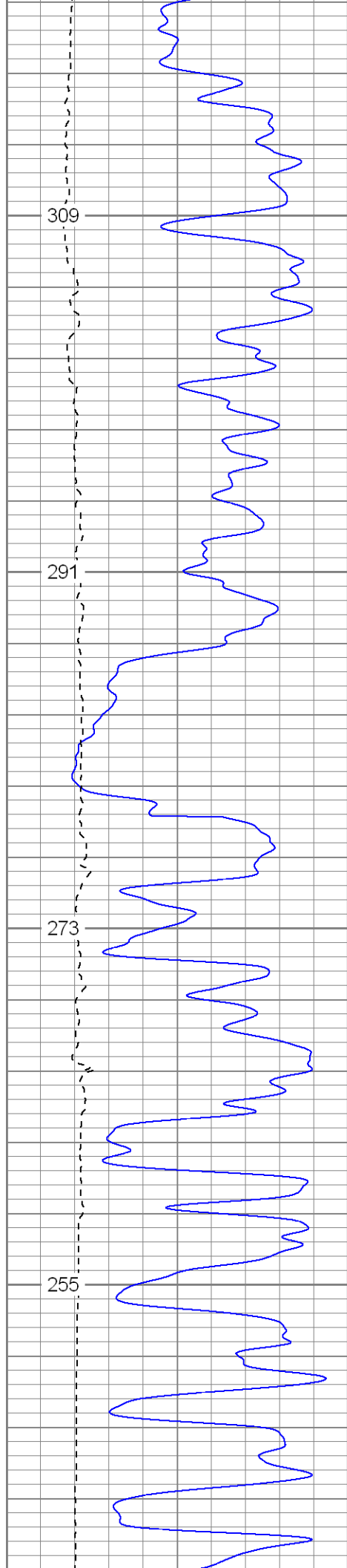


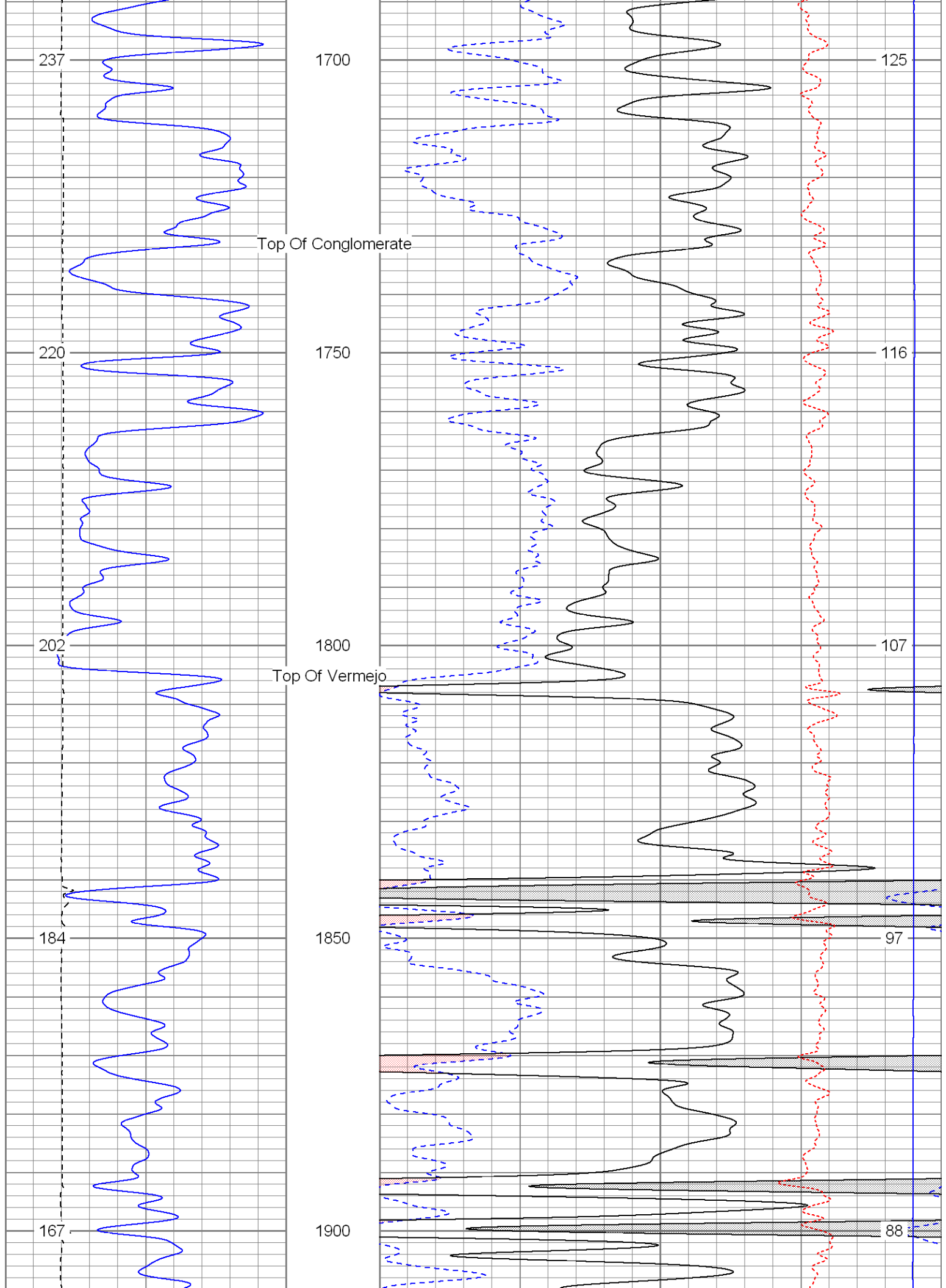


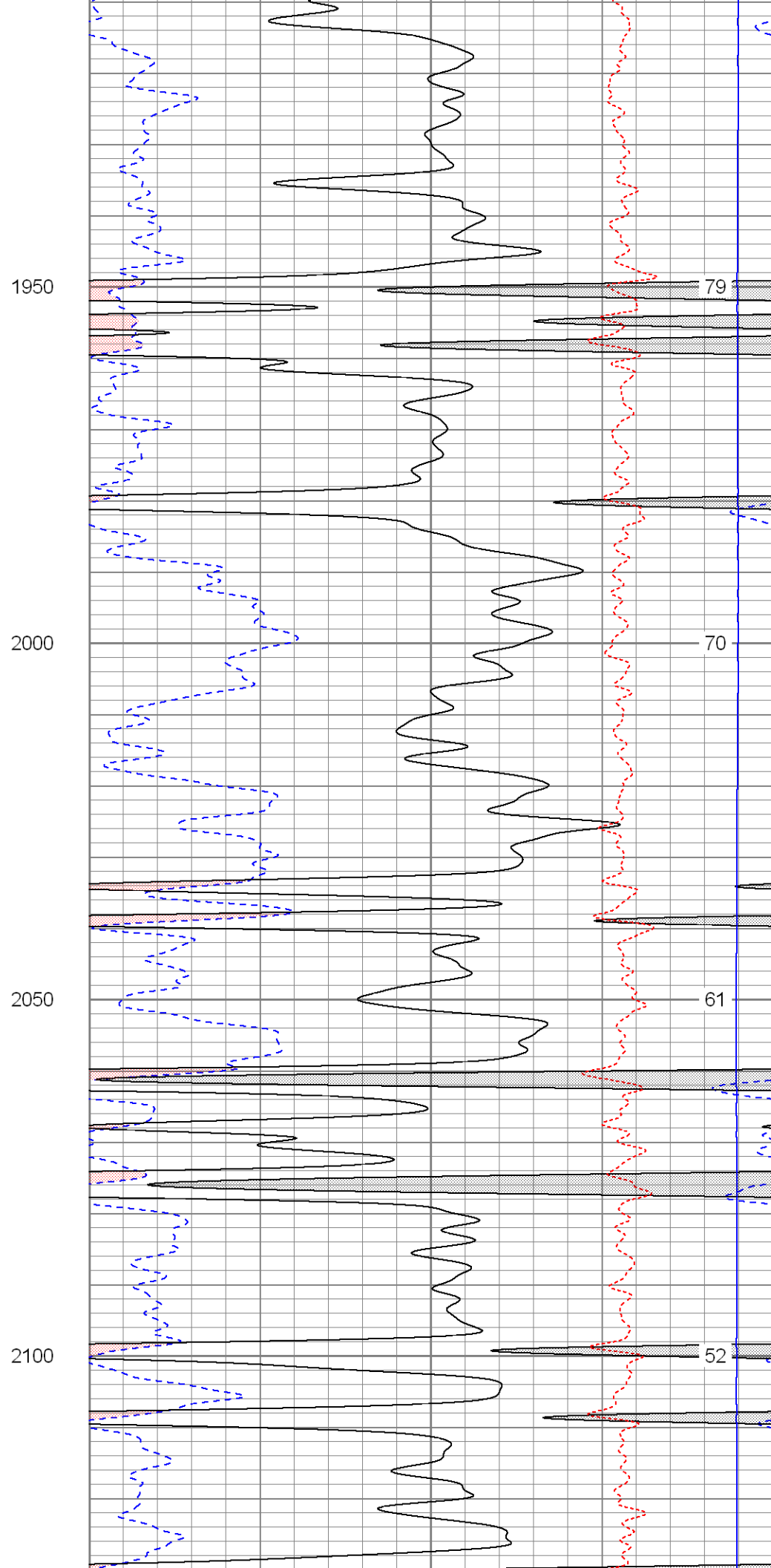
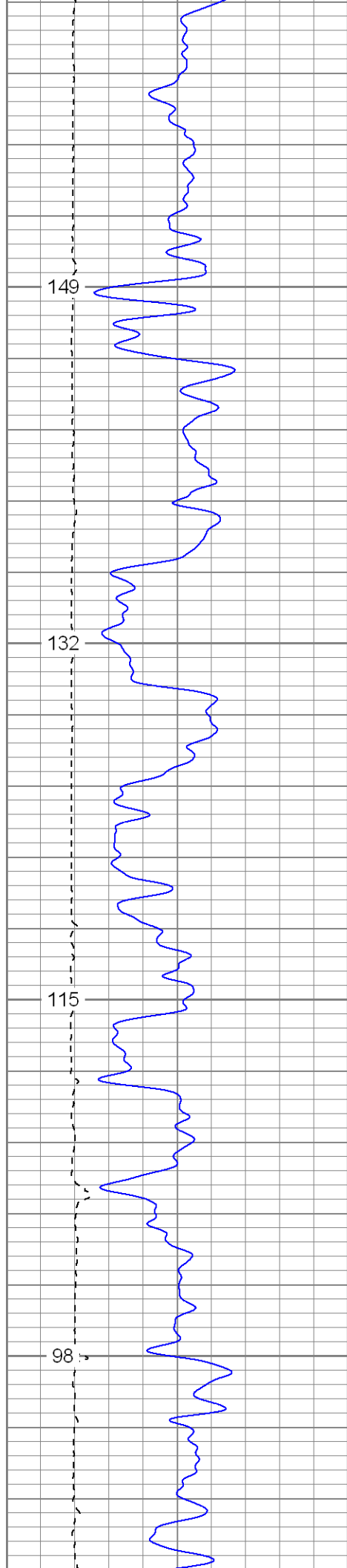


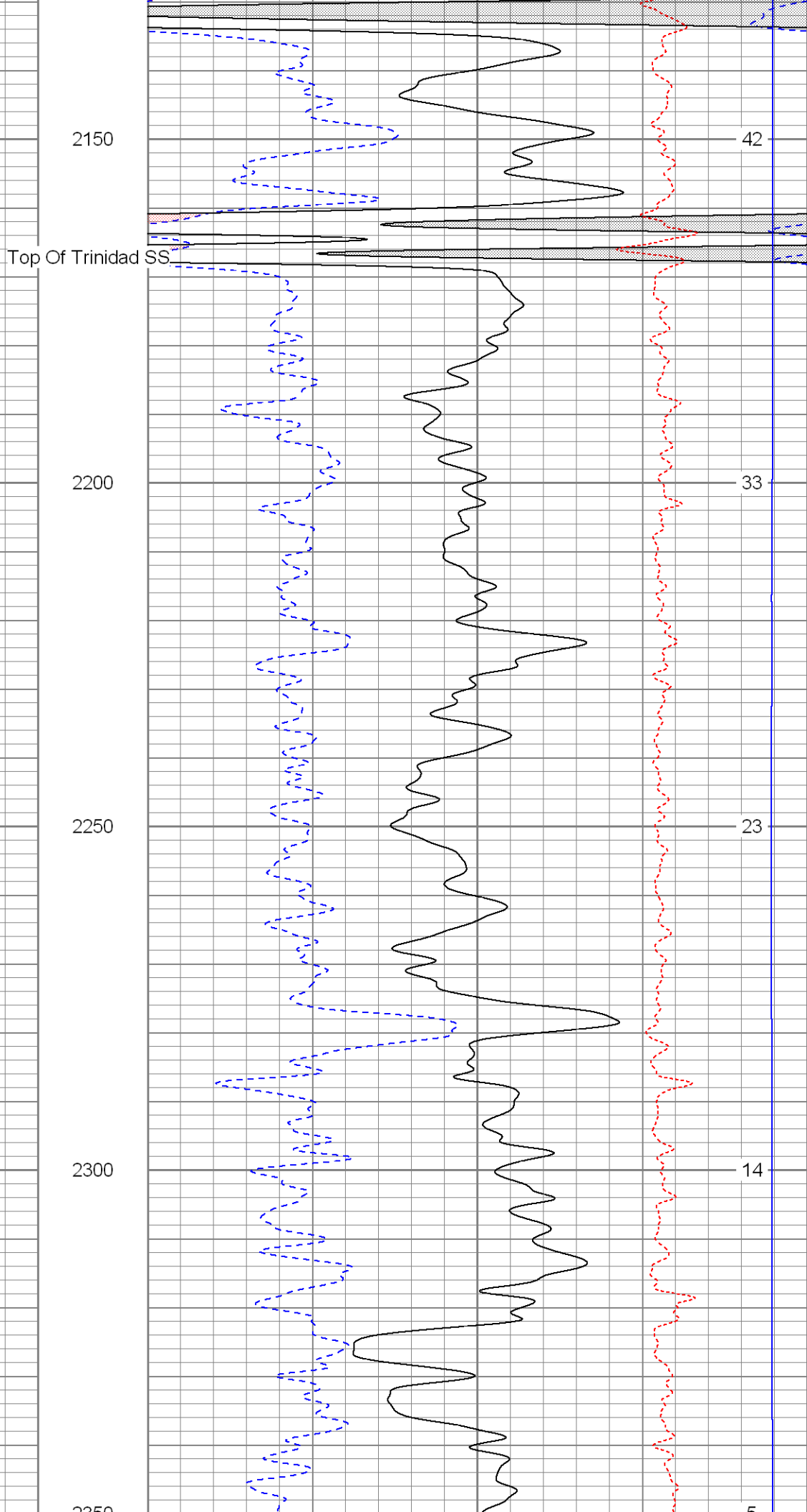
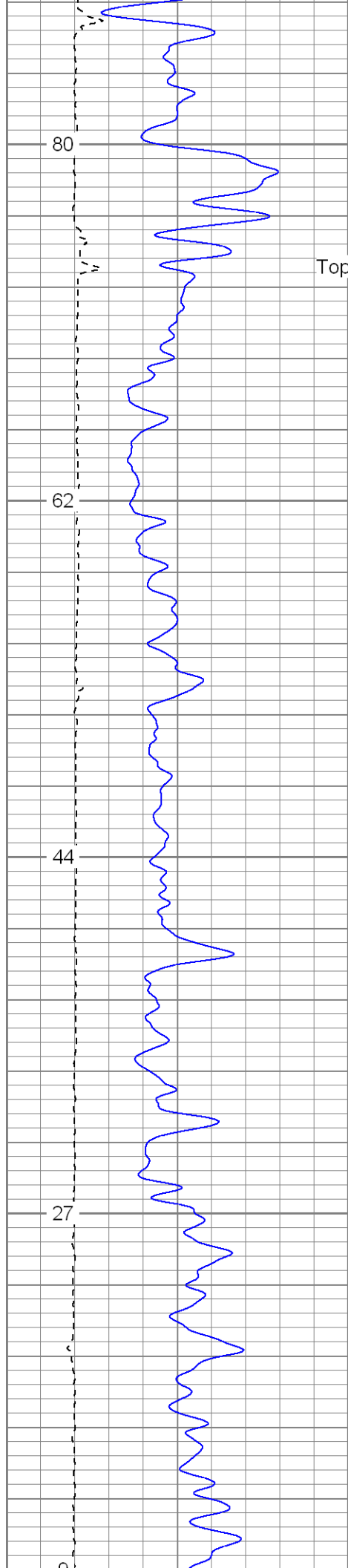


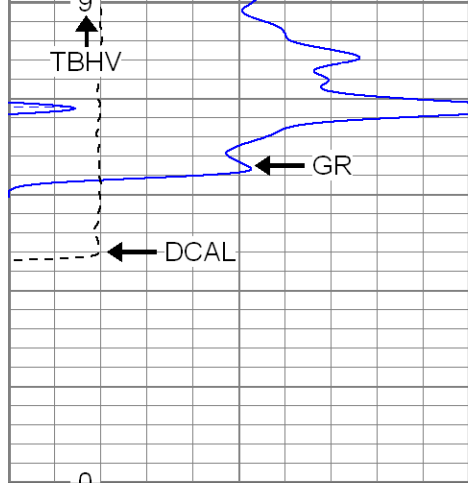




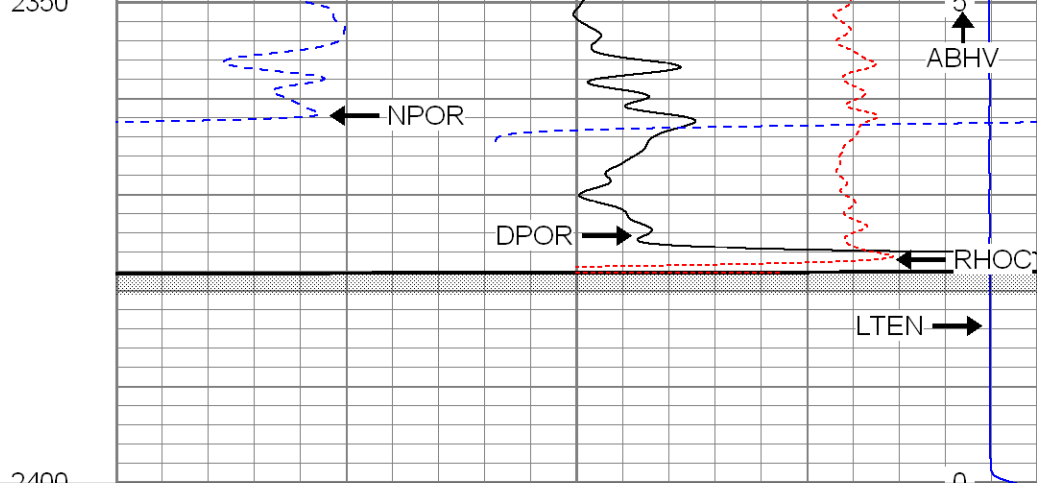








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



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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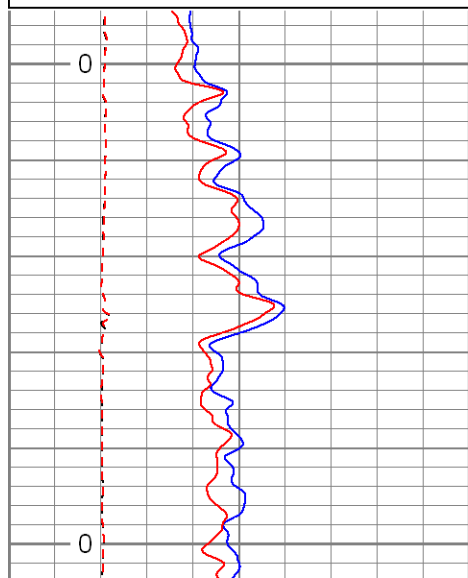
Black Lick, Pa.
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Repeat Pass

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Charted by: Depth in Feet scaled 1:240

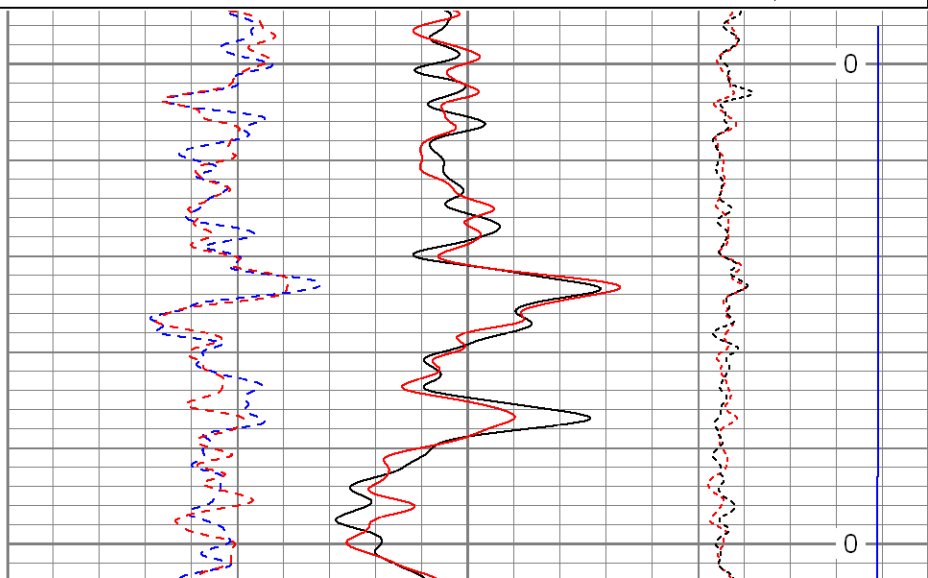
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6	DCAL (in)	16
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16
TBHV (ft3)		

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)		



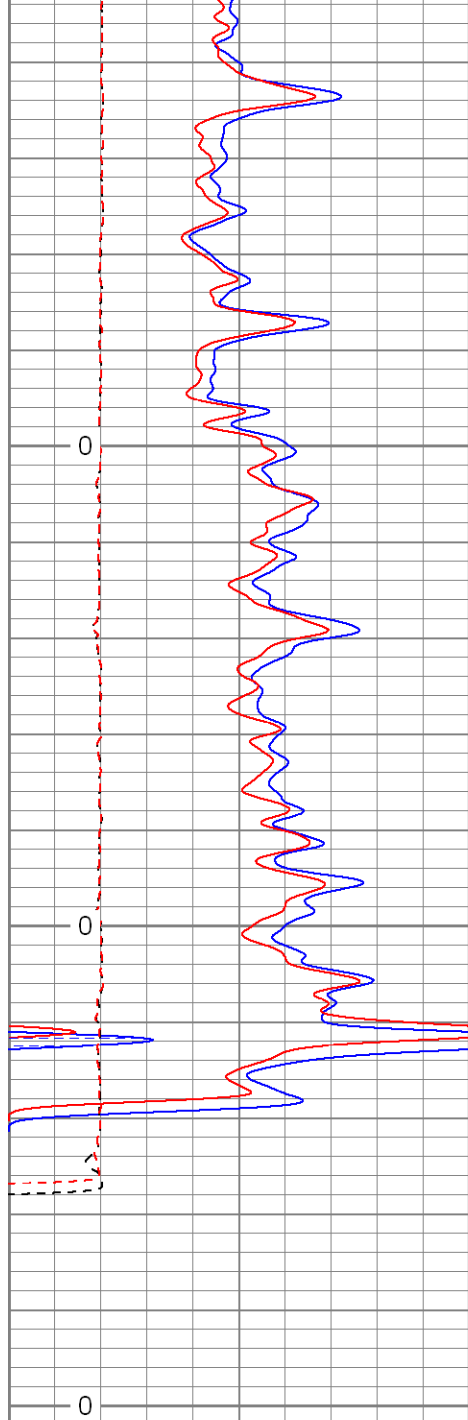
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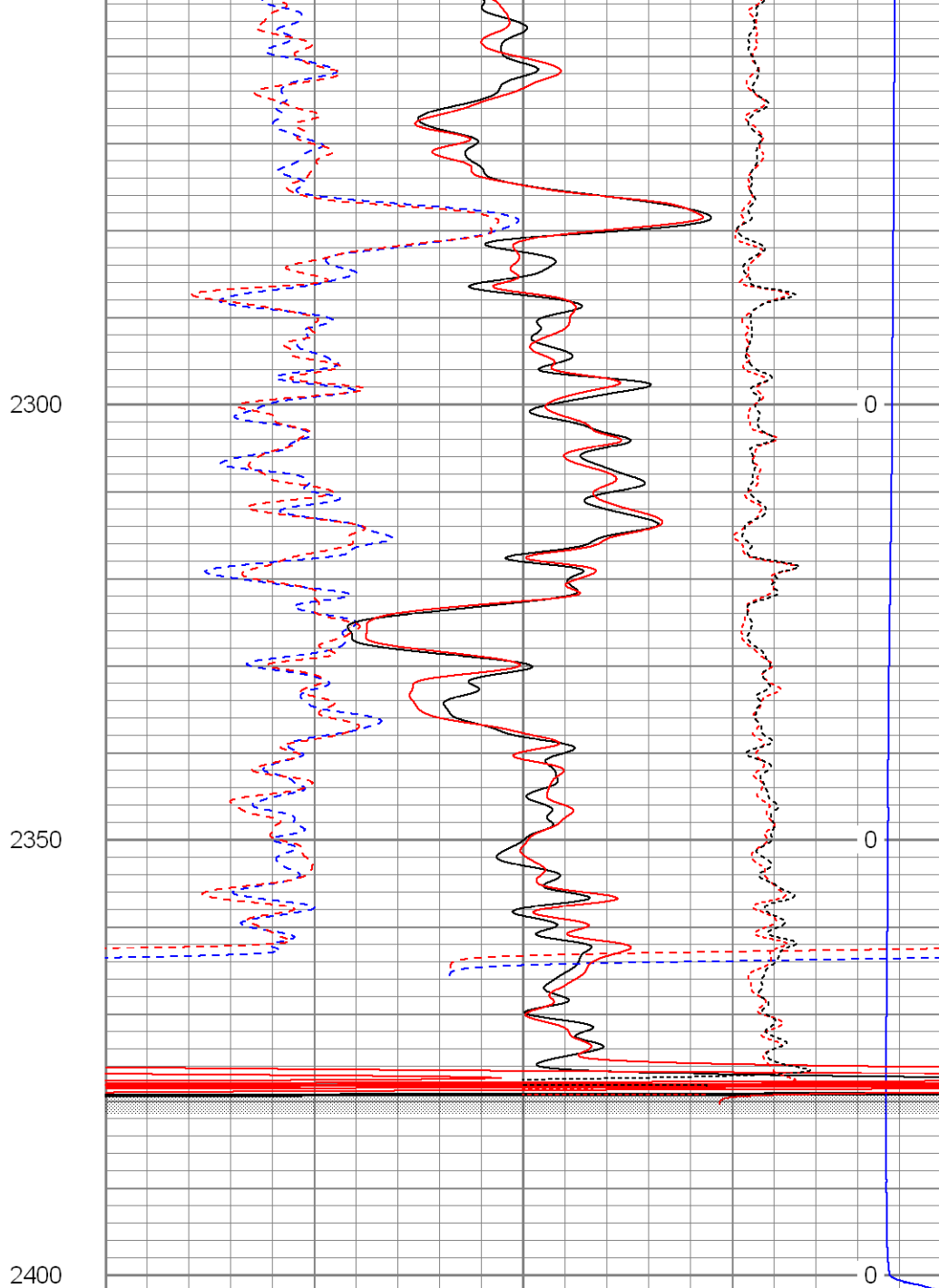


0

0



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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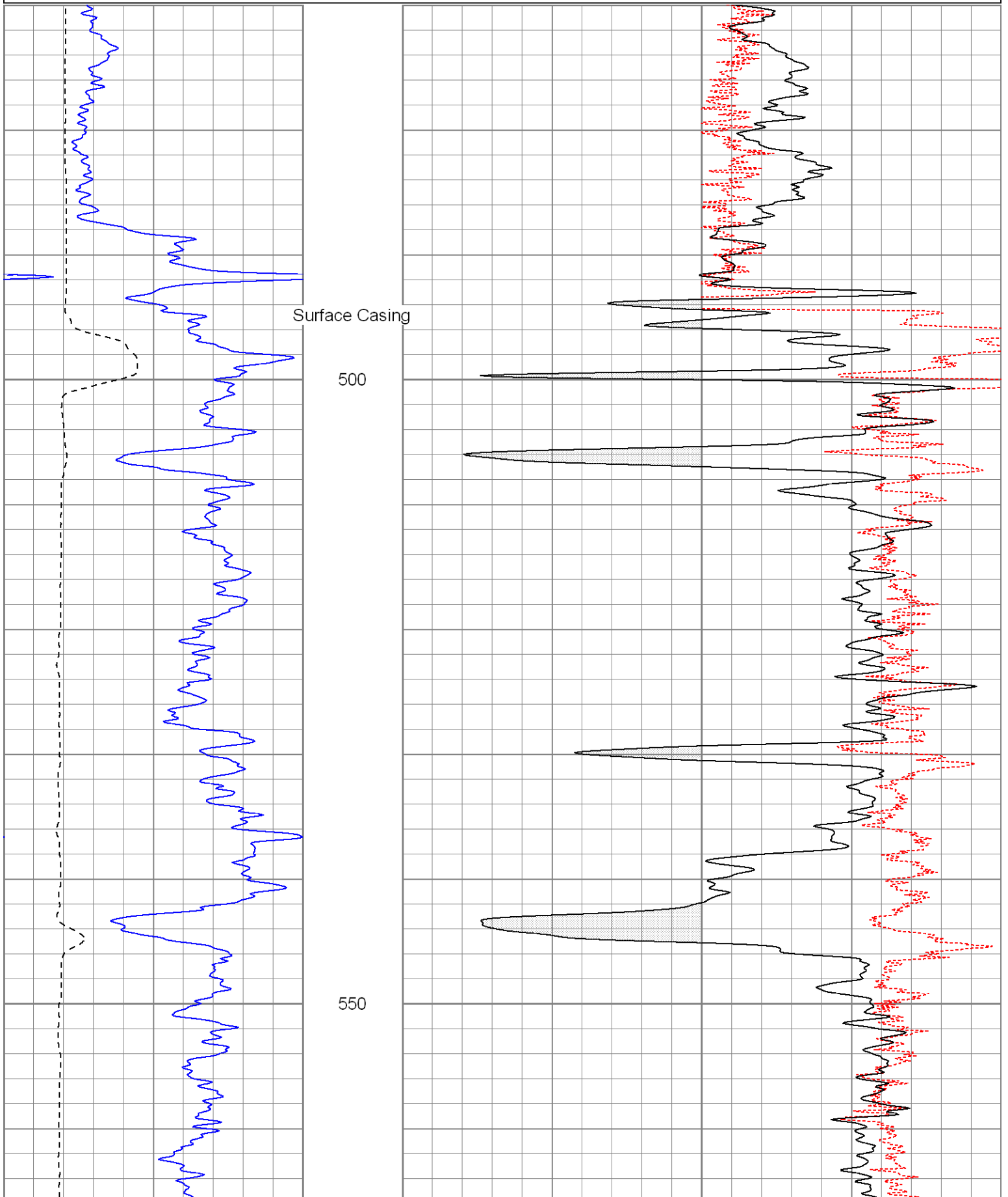
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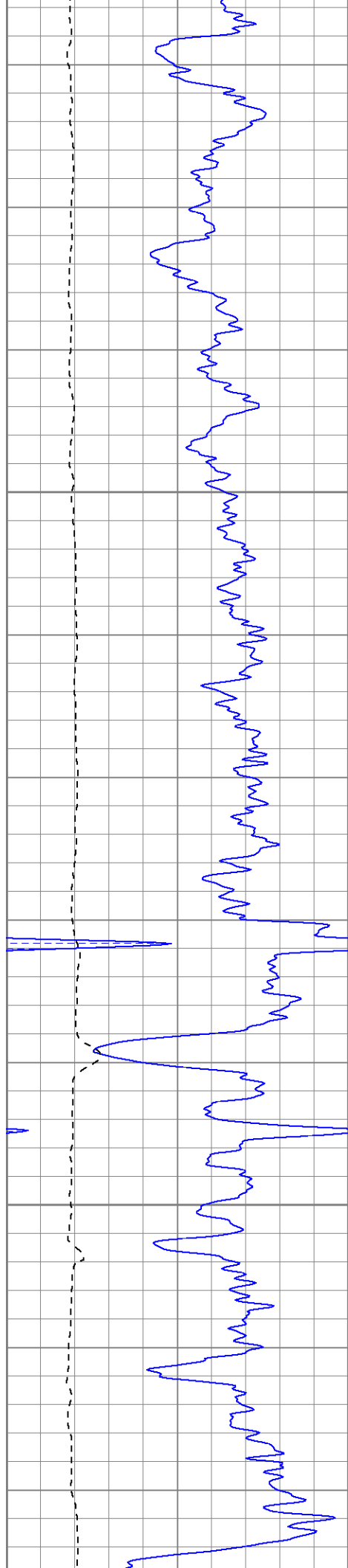
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Dataset Pathname: pass2 2

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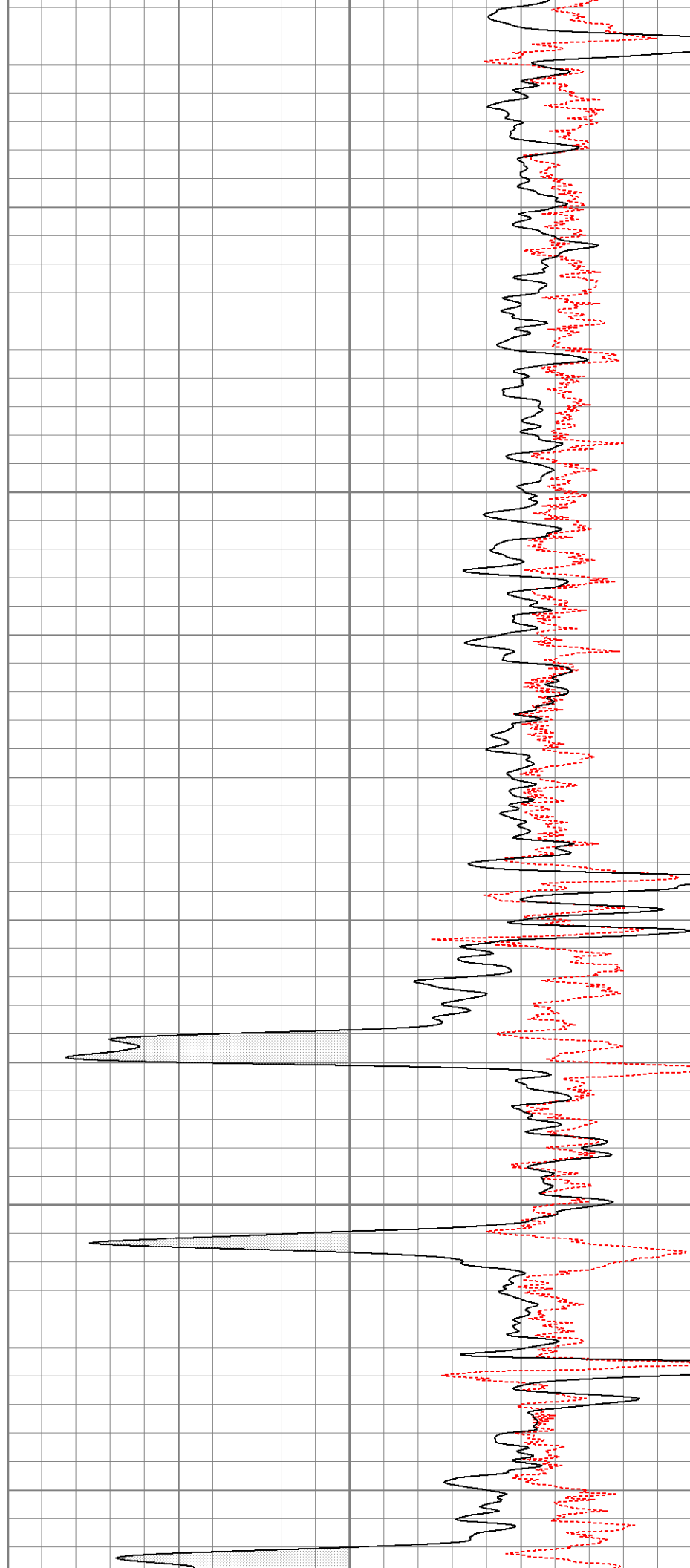
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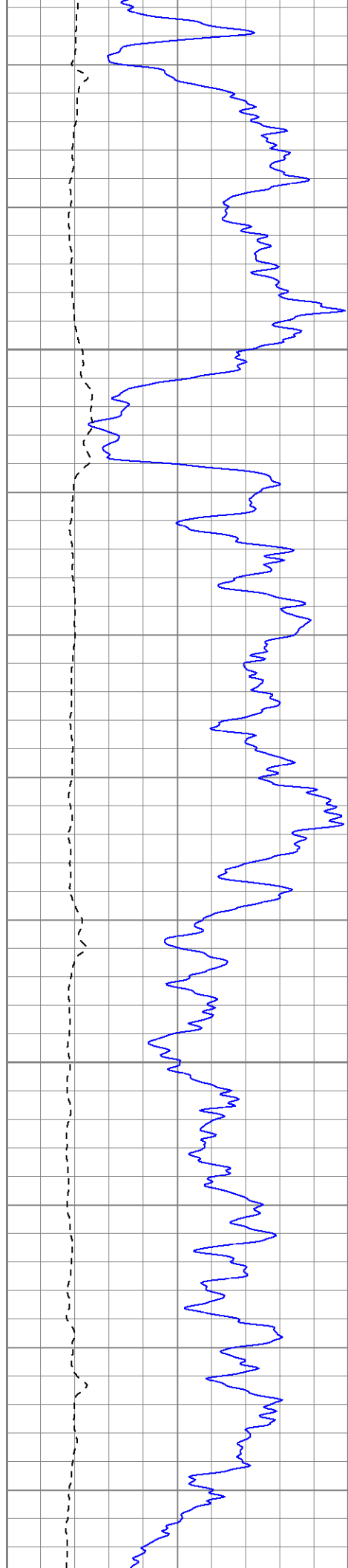




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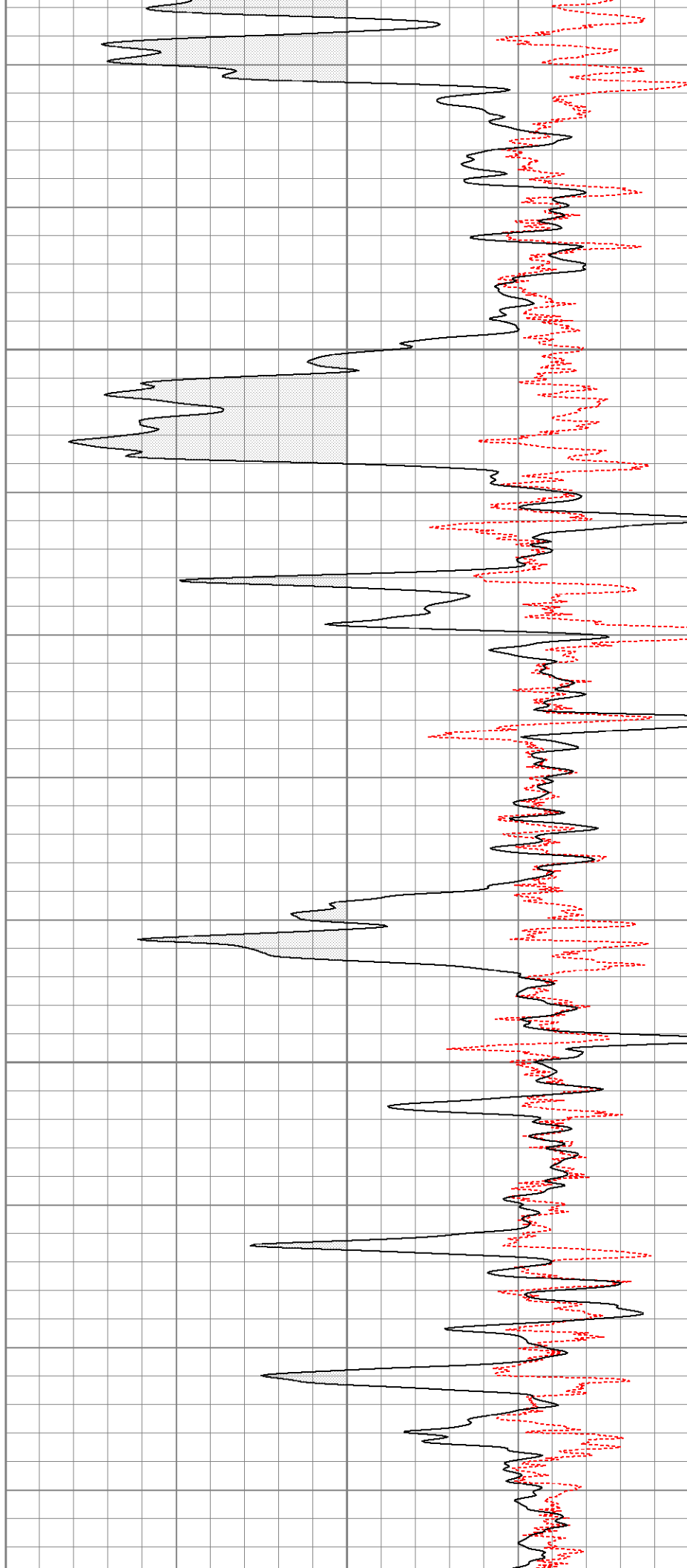
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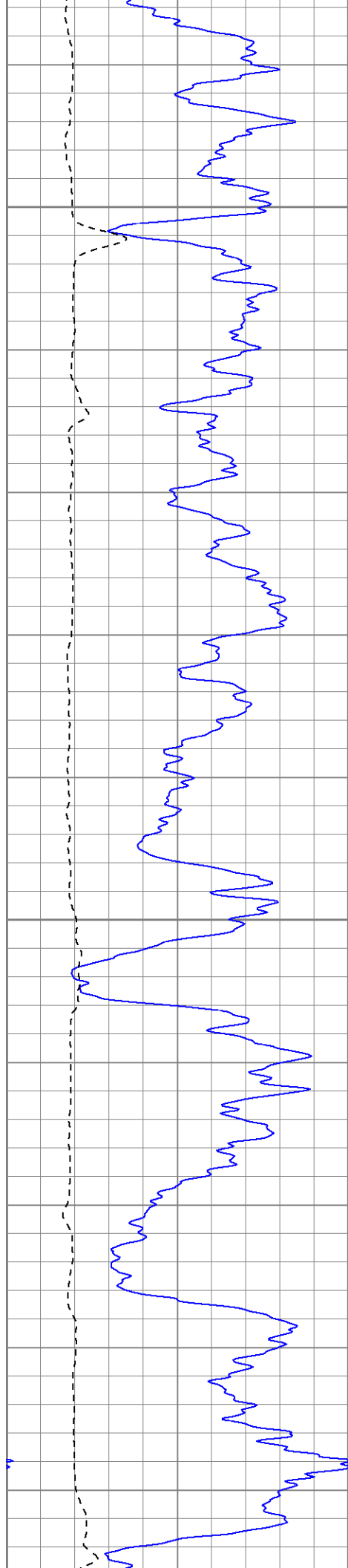




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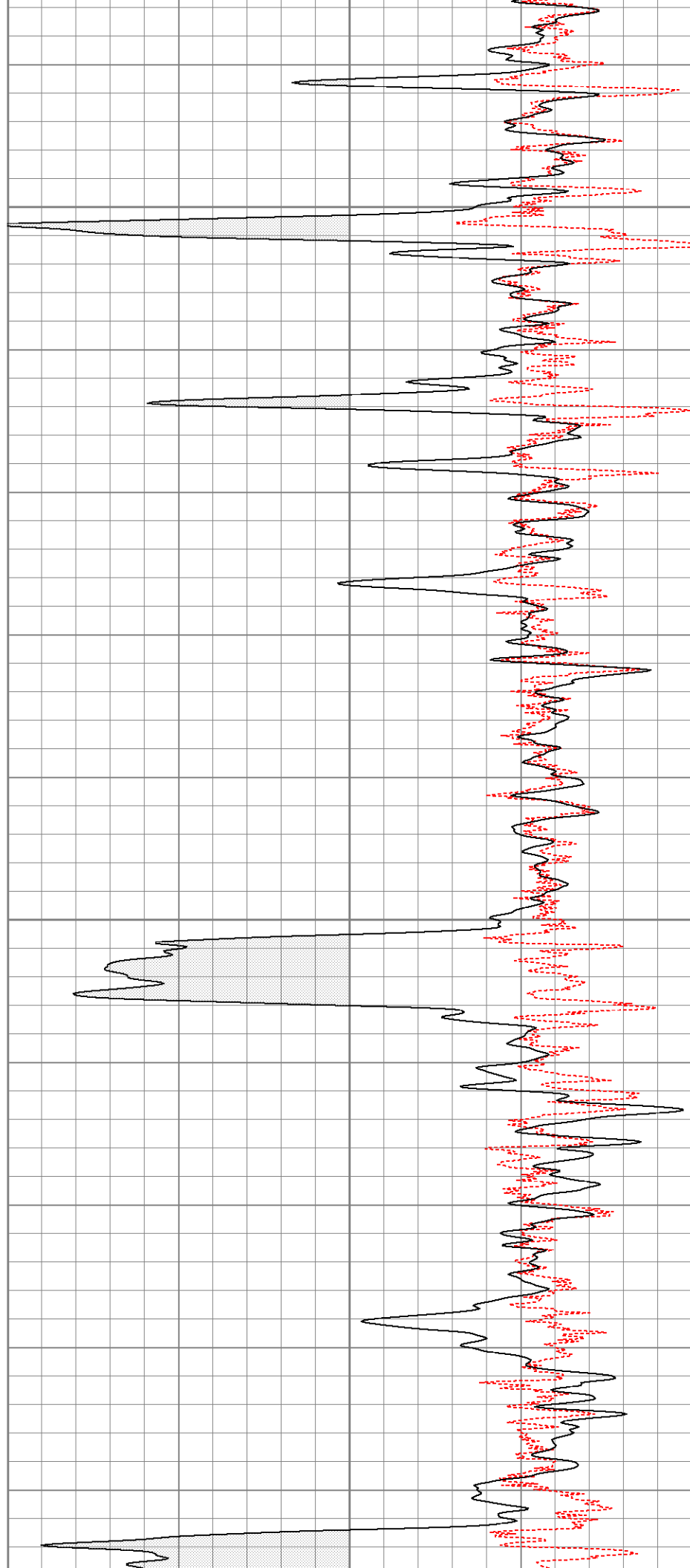
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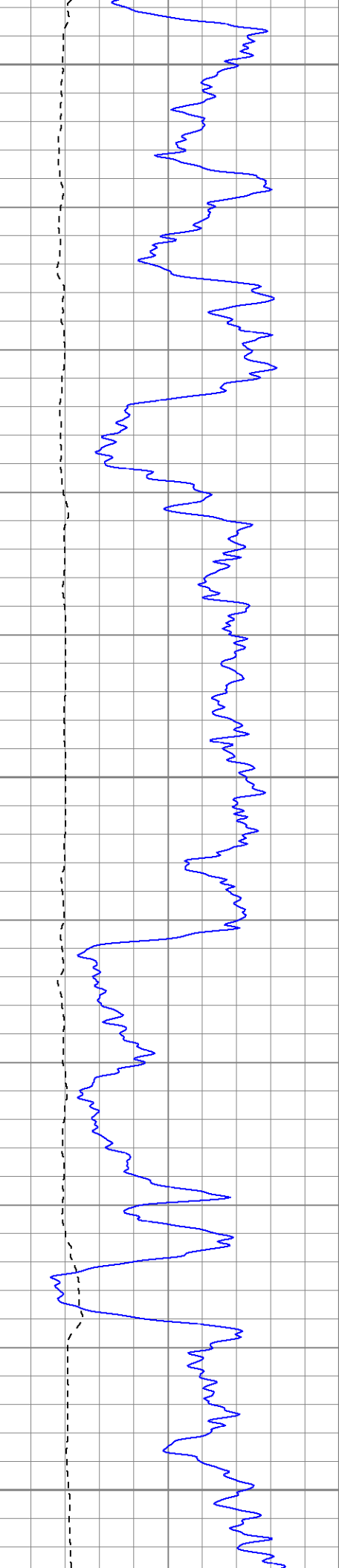




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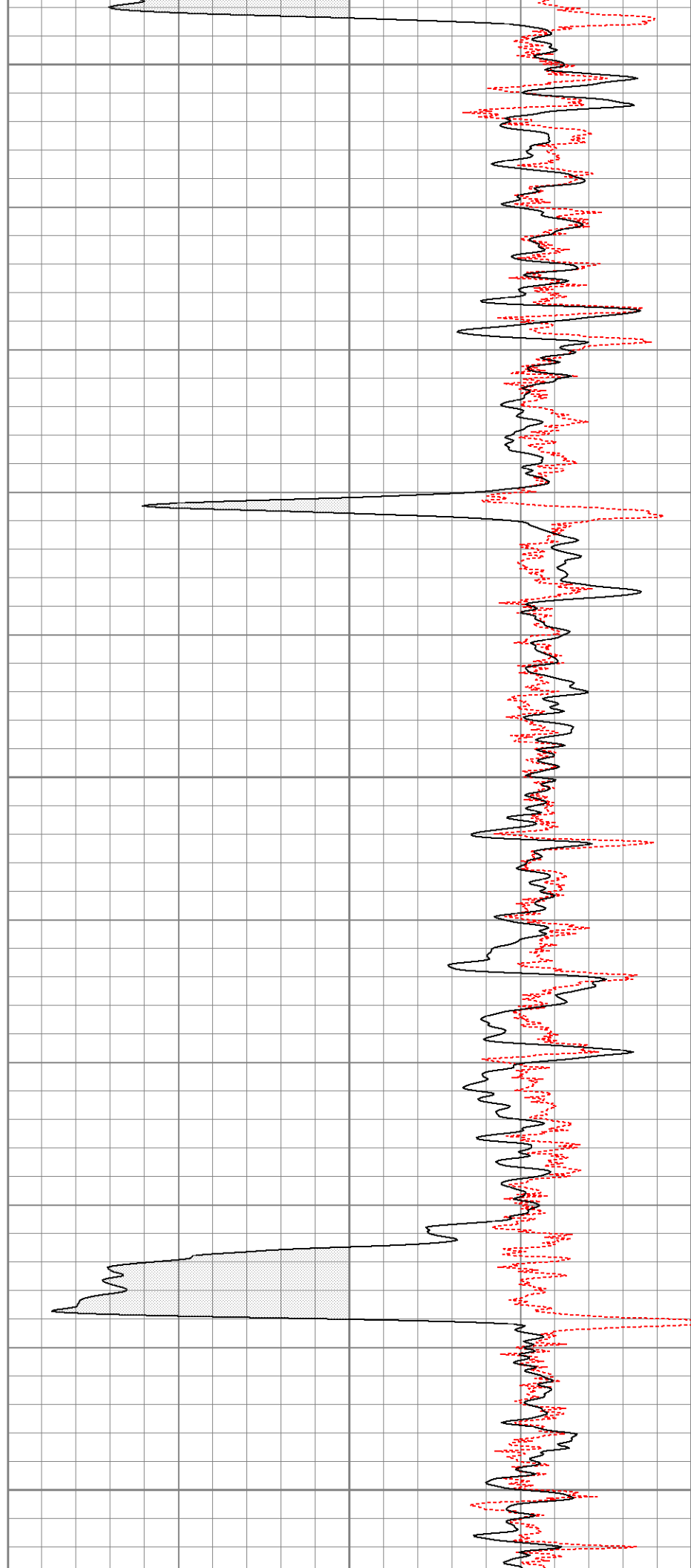


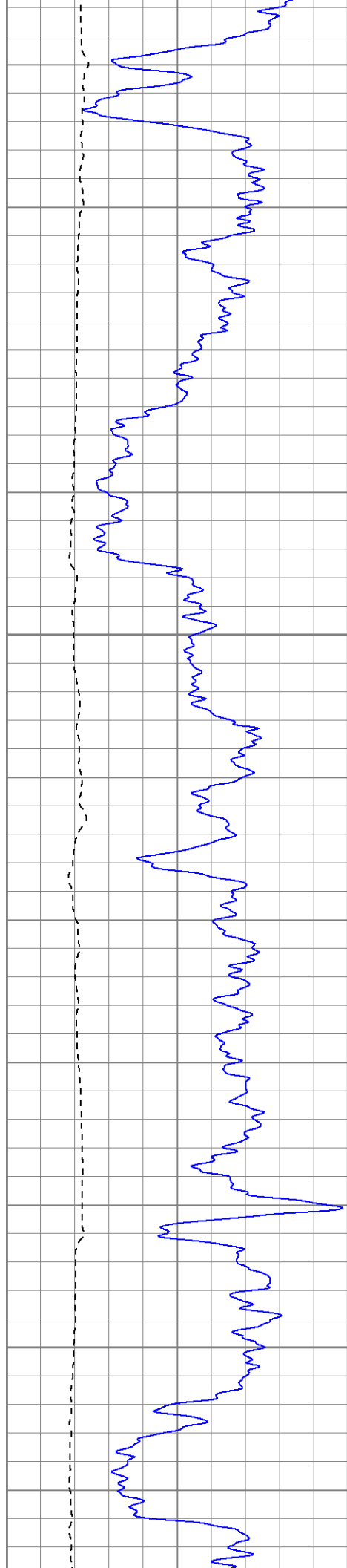


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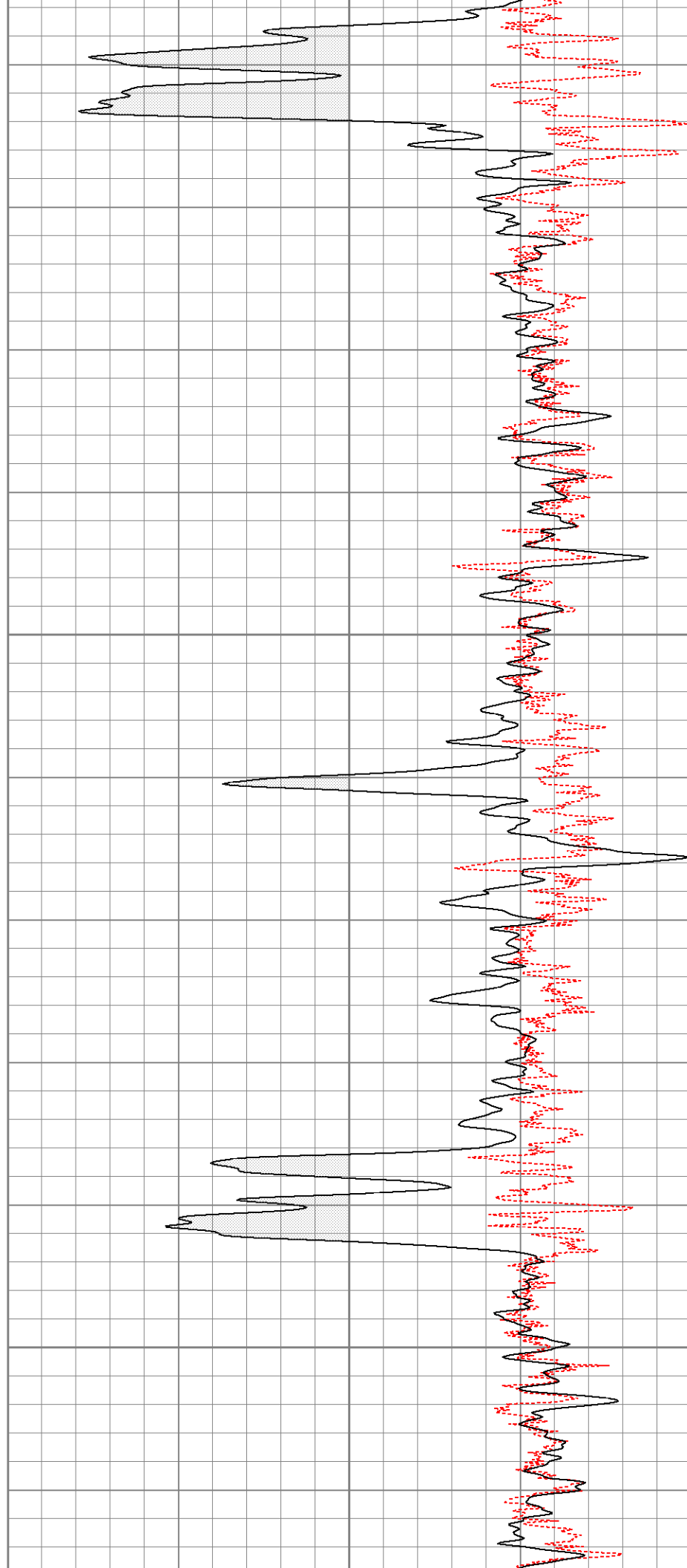
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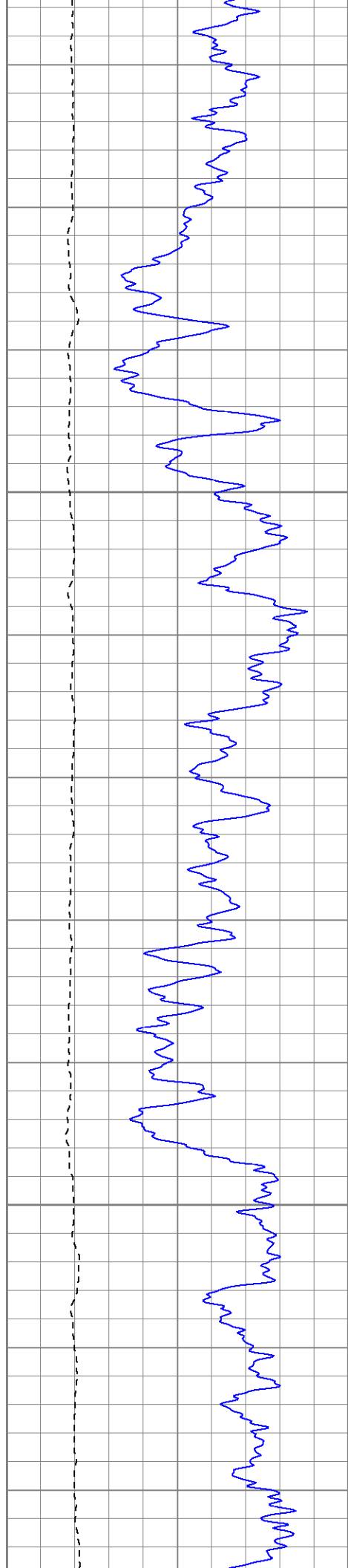




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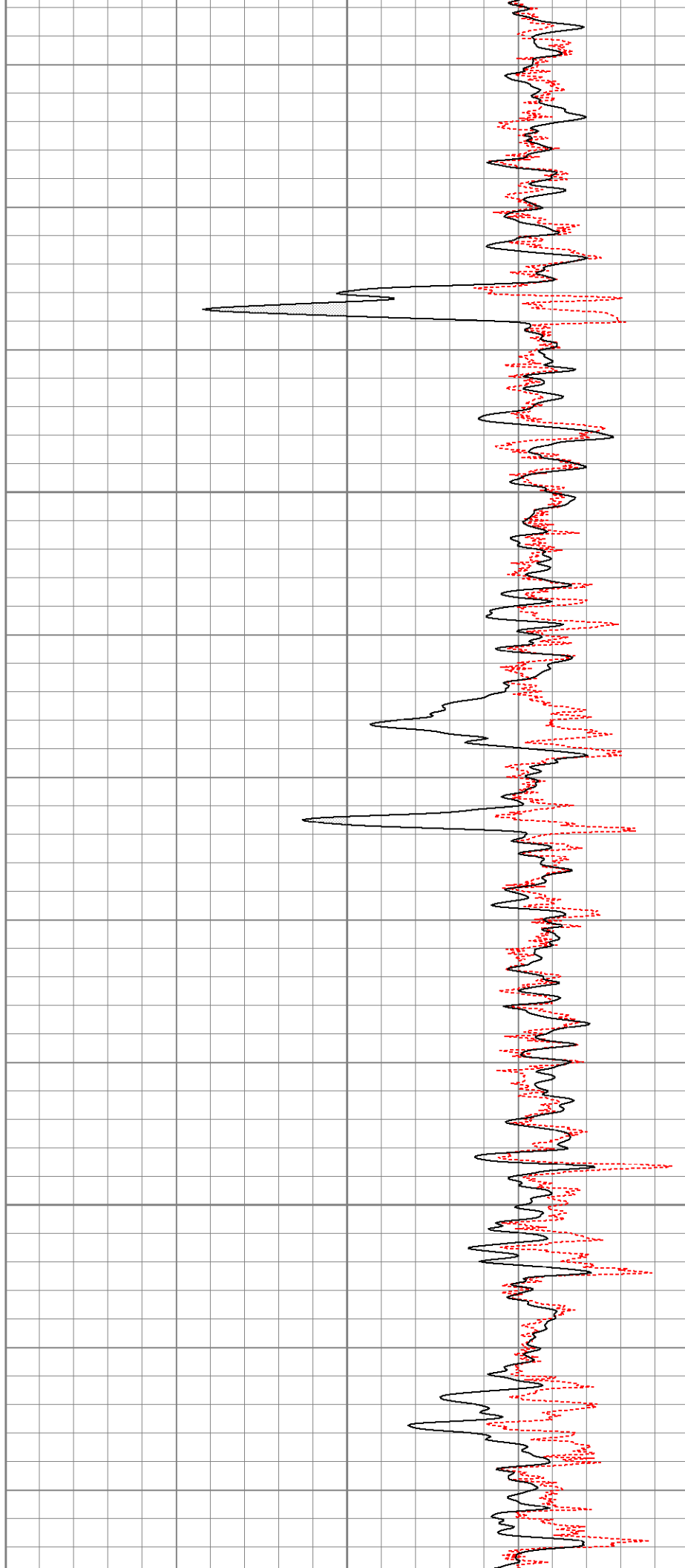
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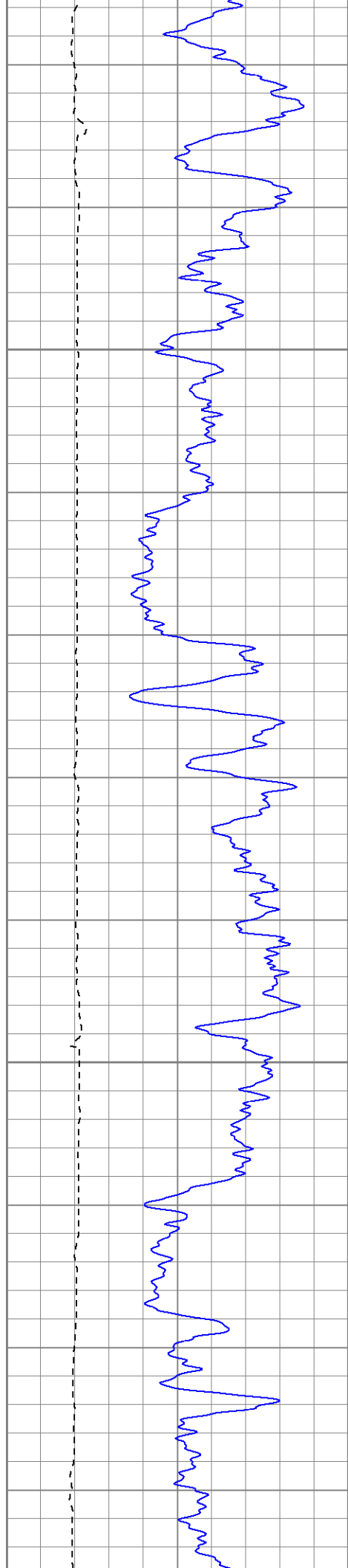




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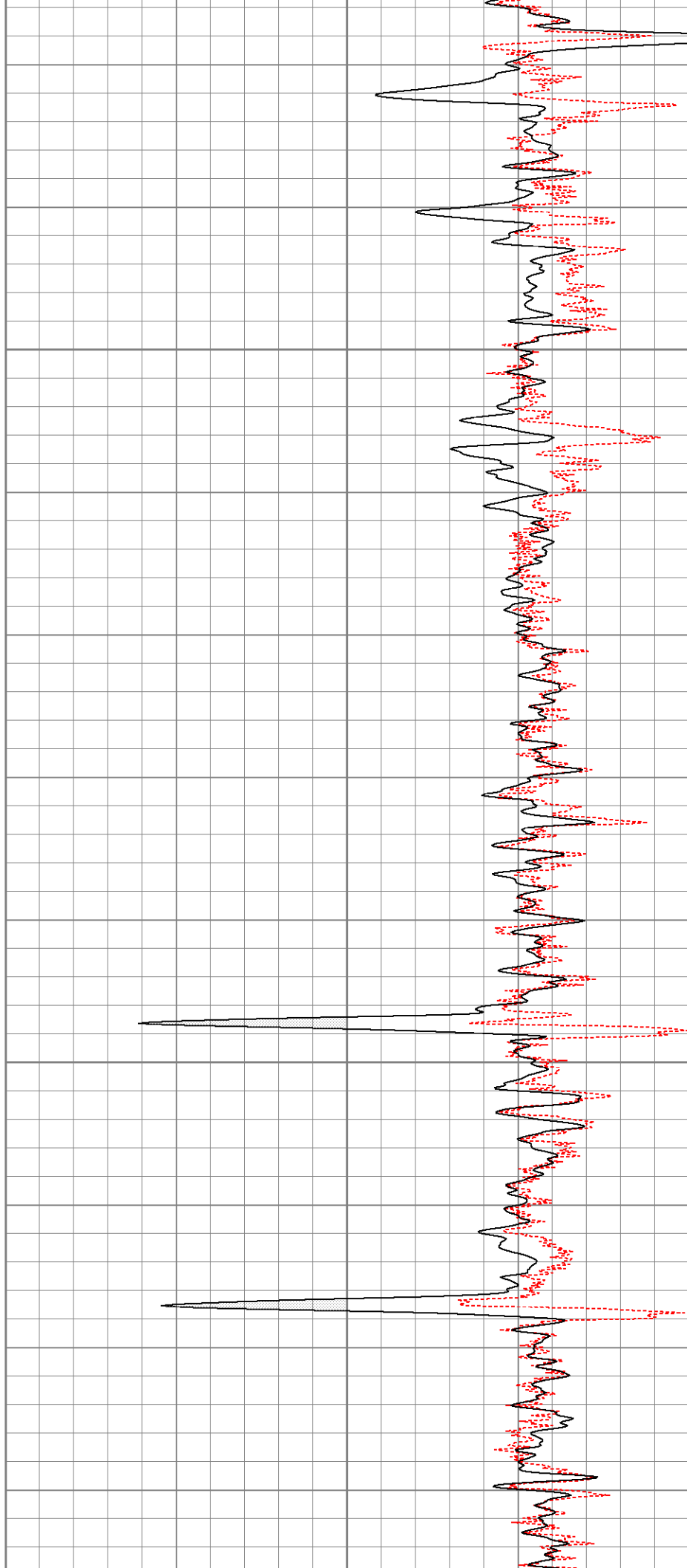
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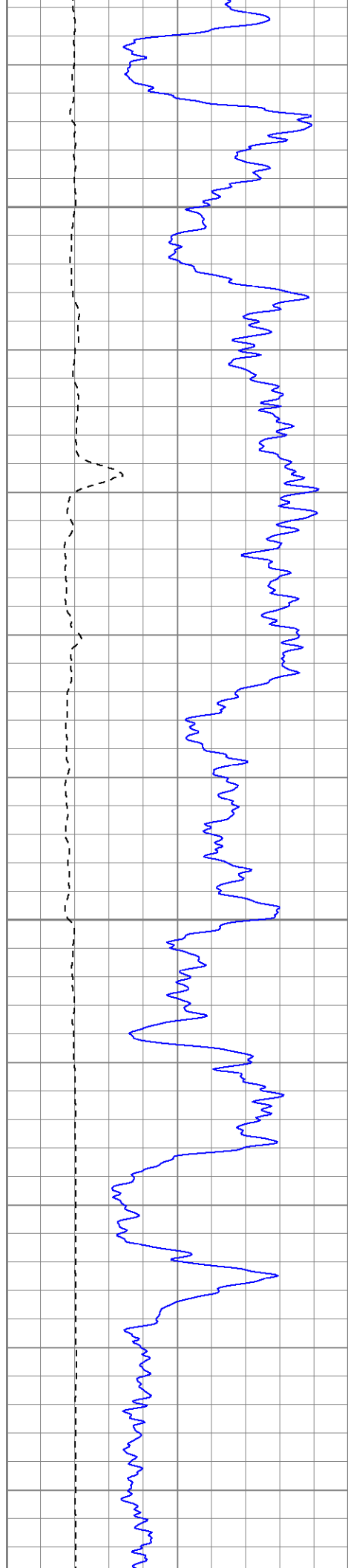




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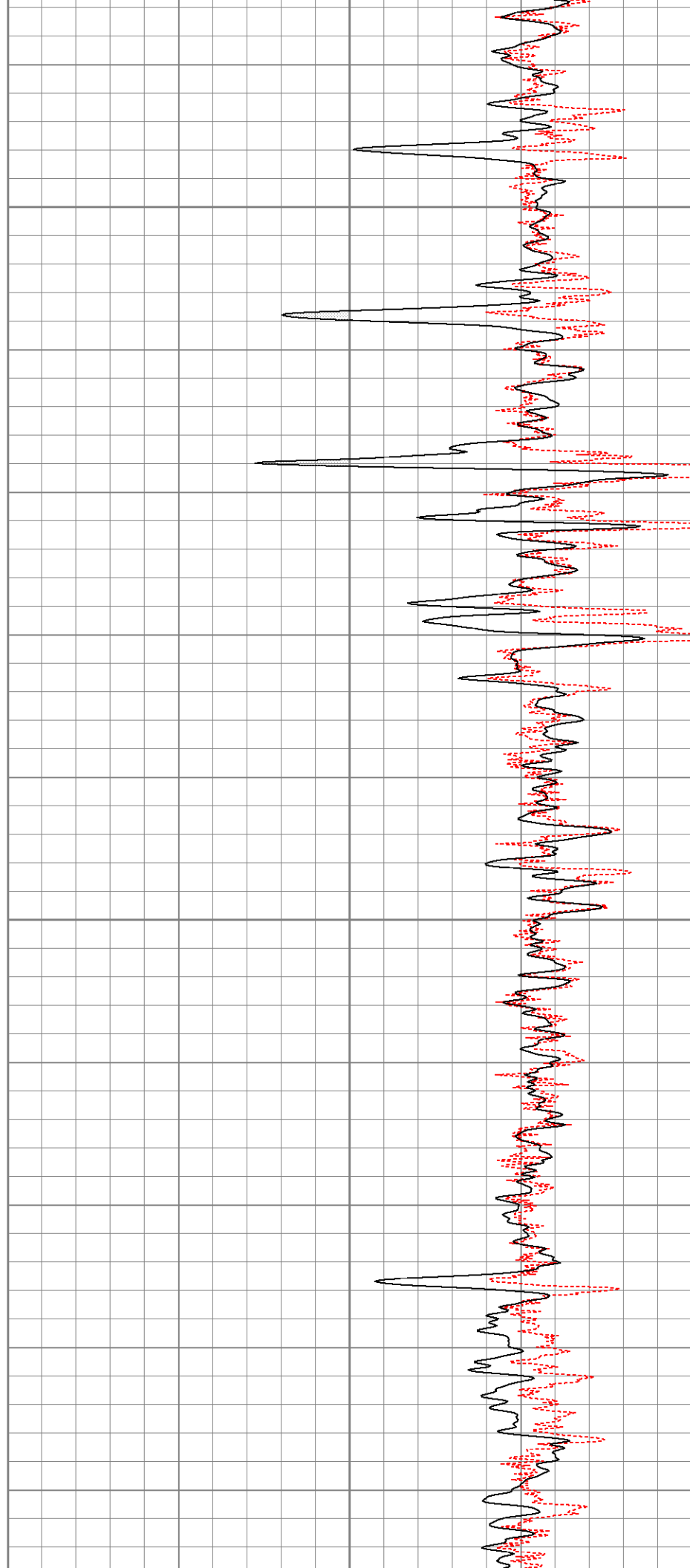
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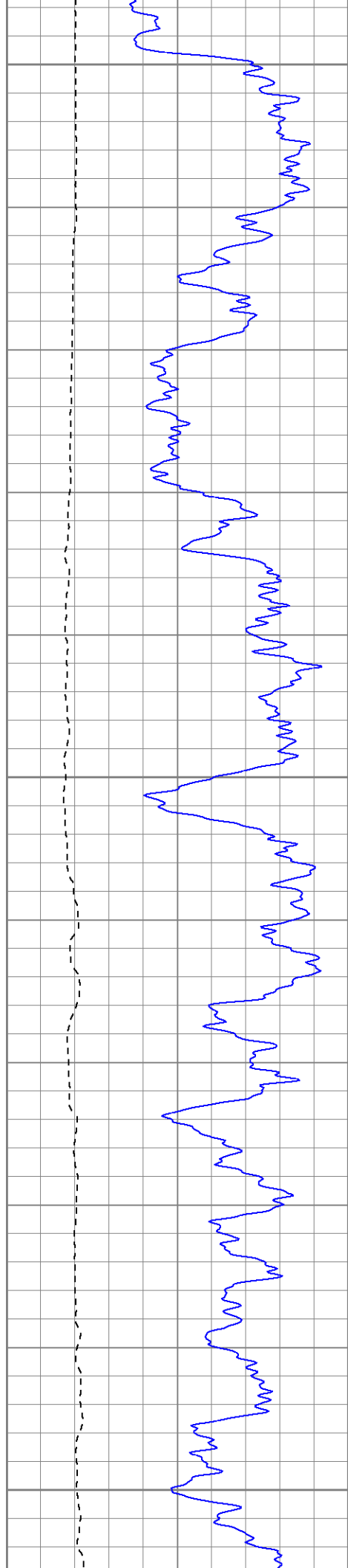




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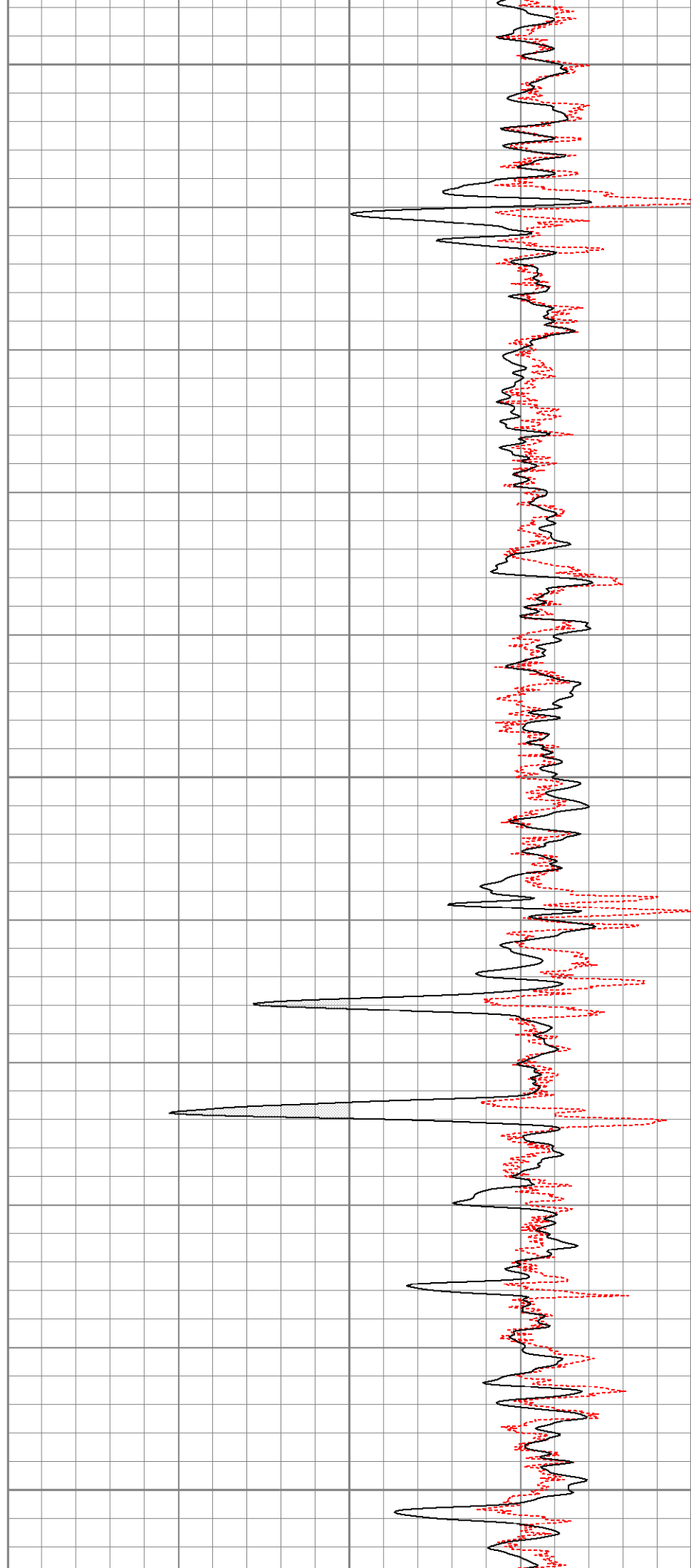


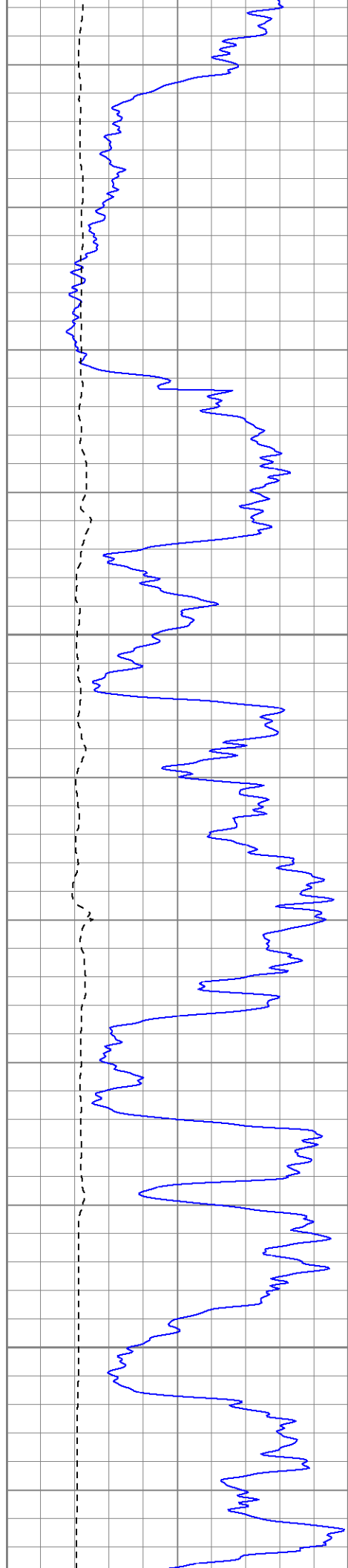


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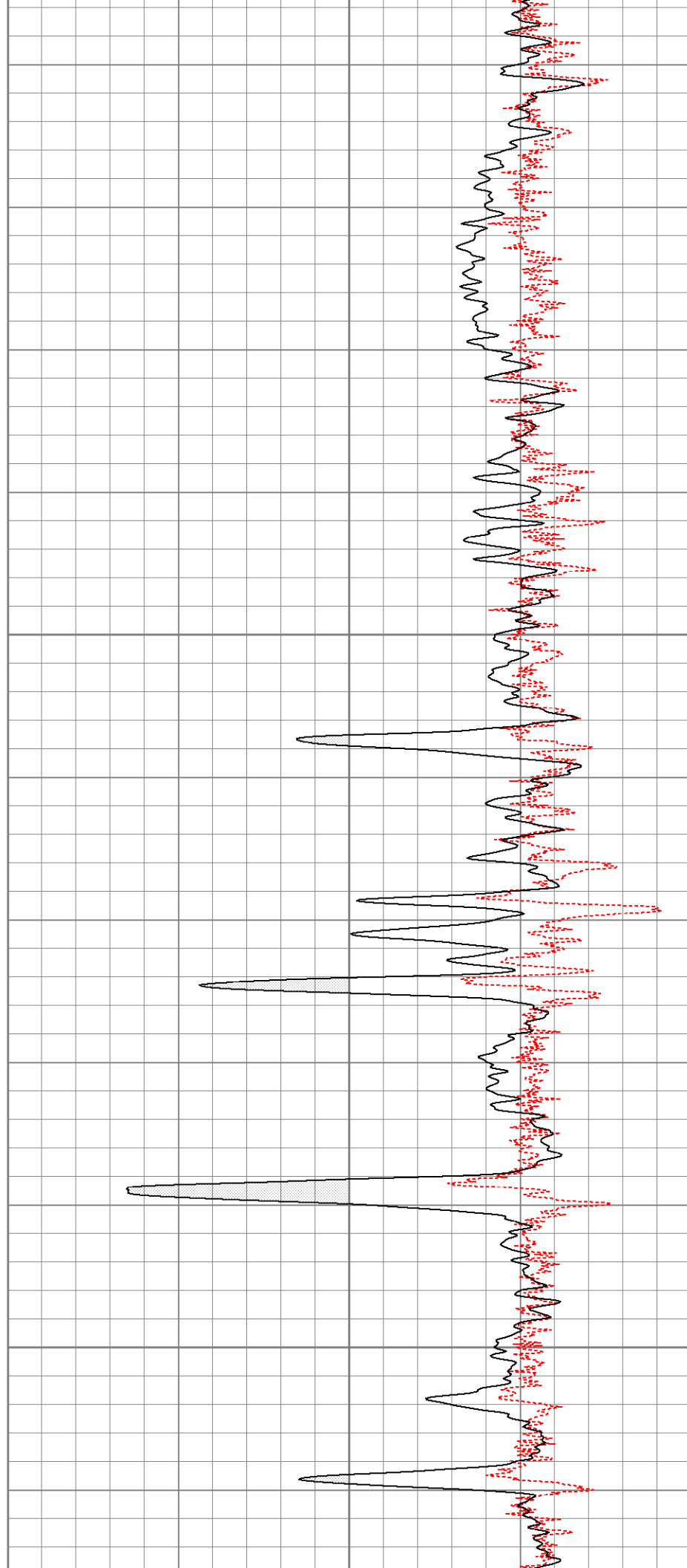


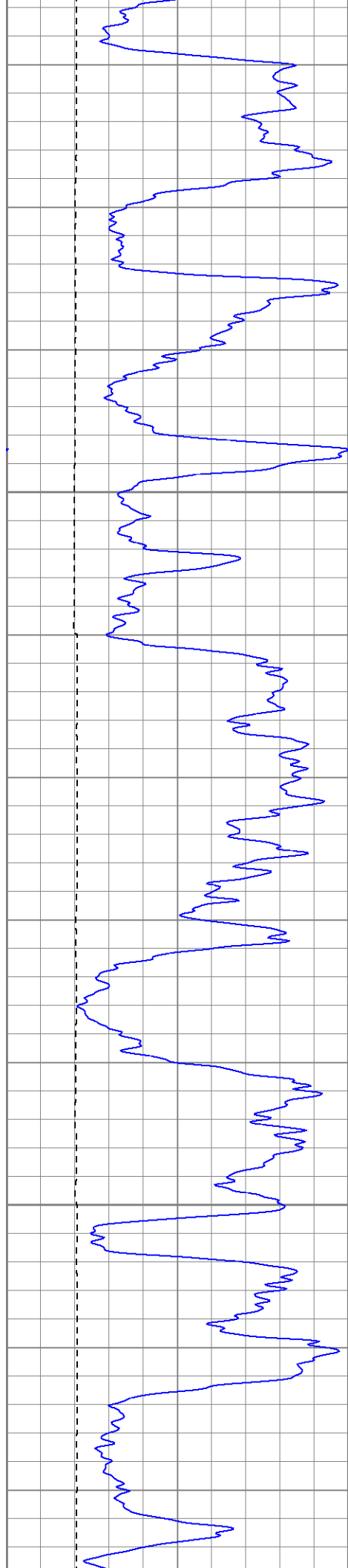


Fluid Level

1600

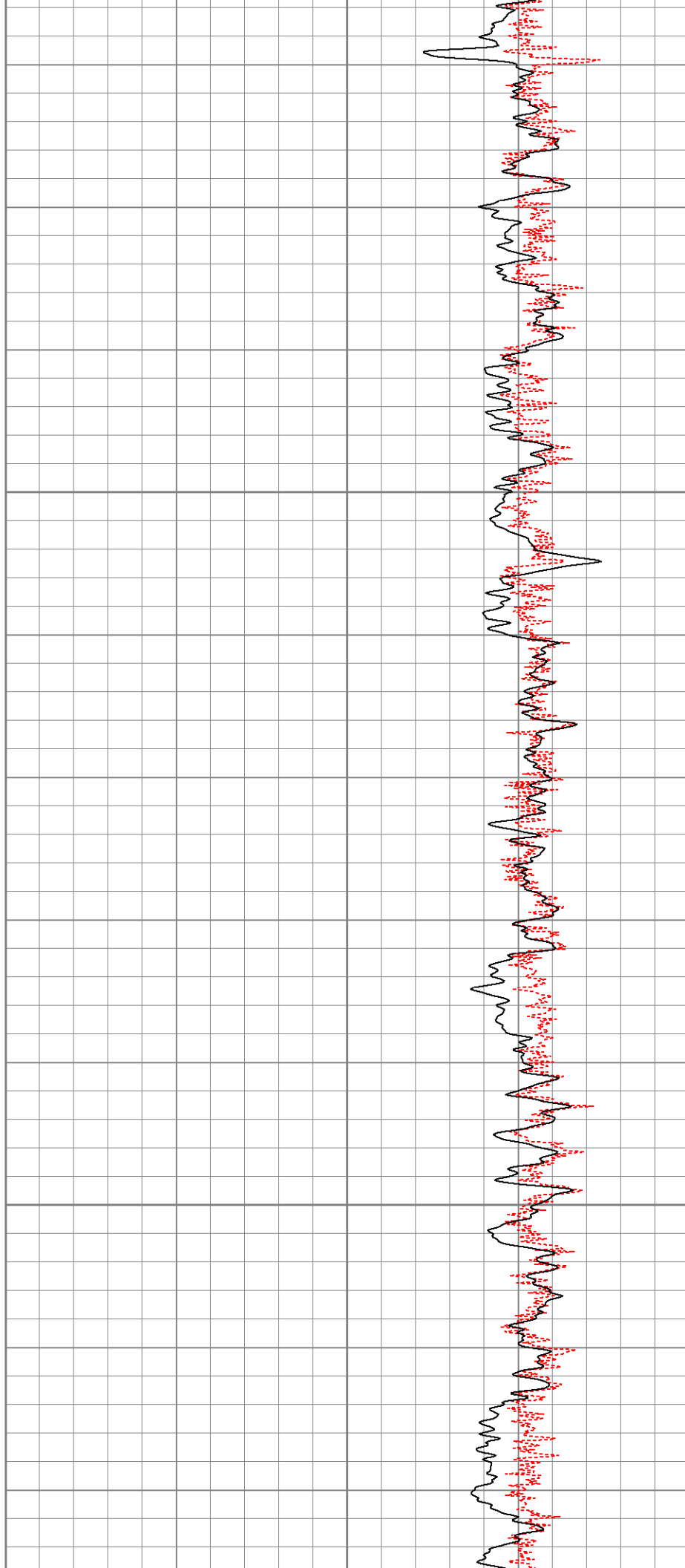
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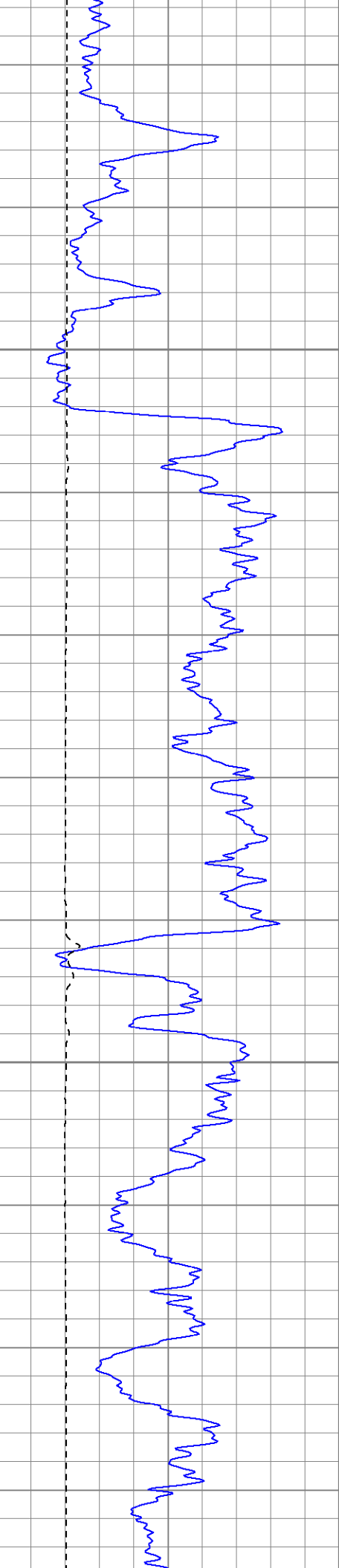




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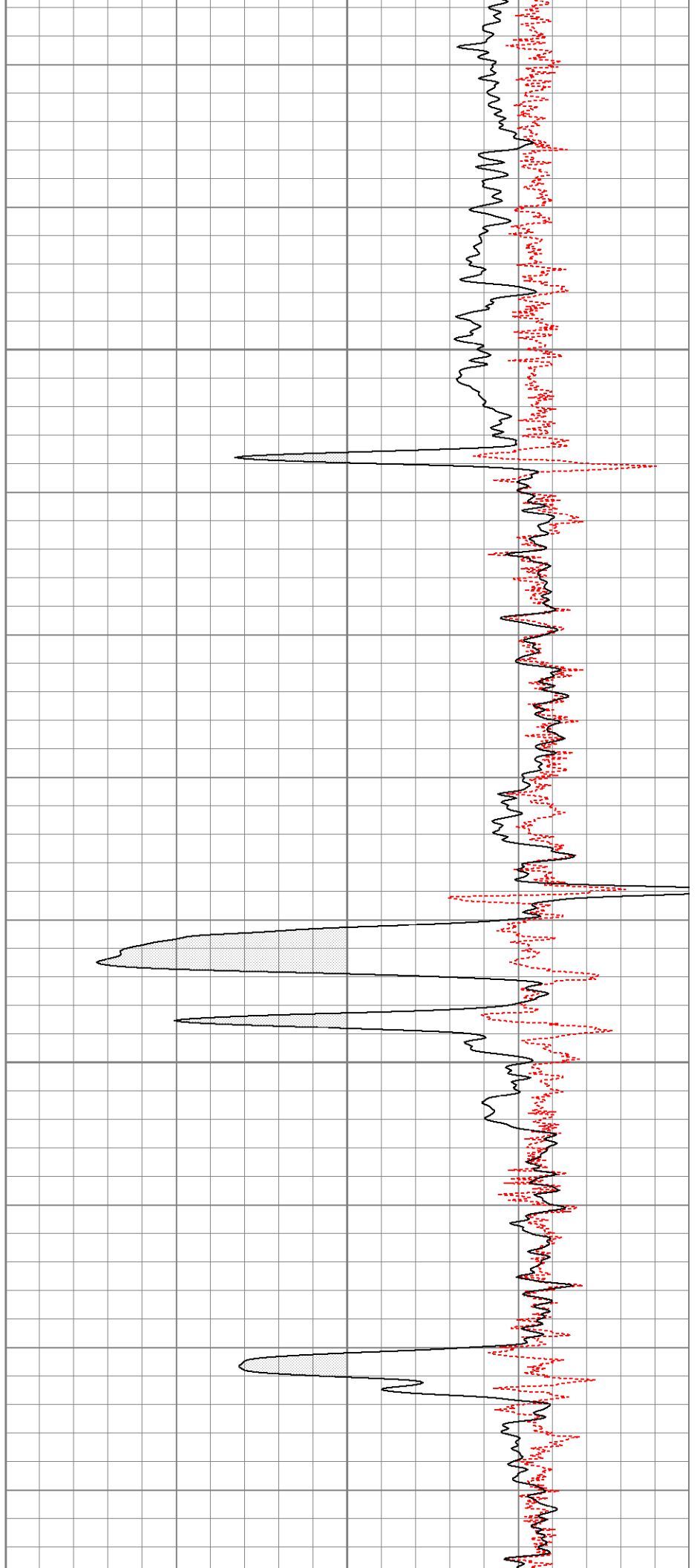
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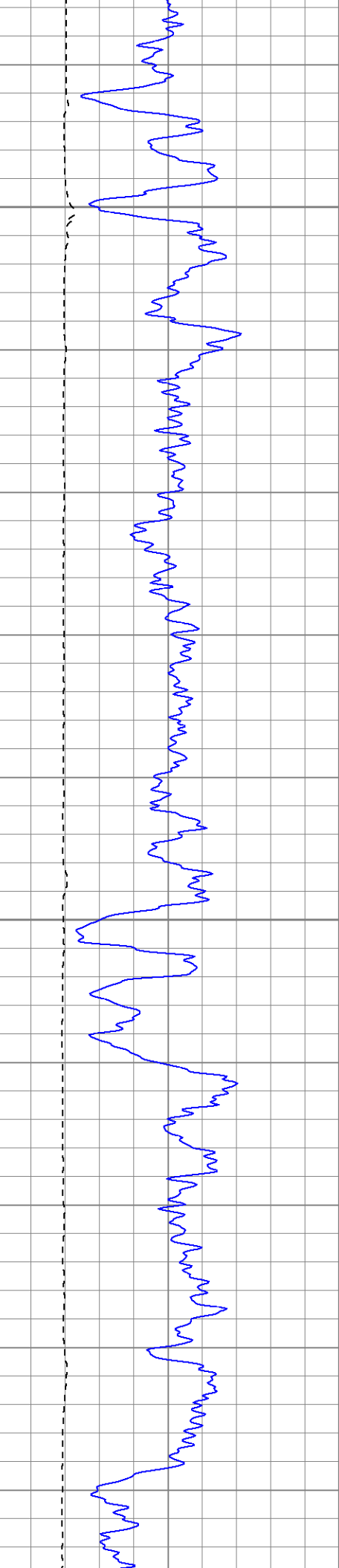




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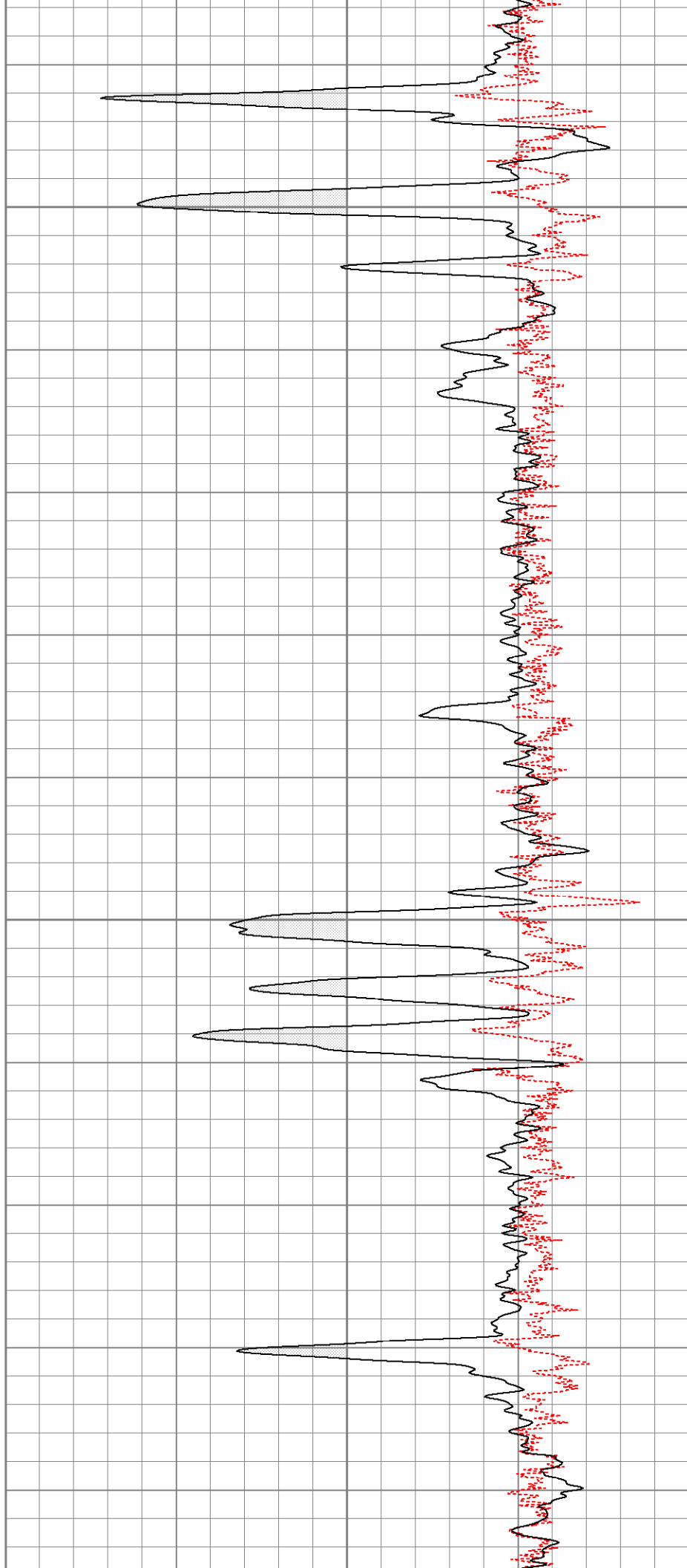
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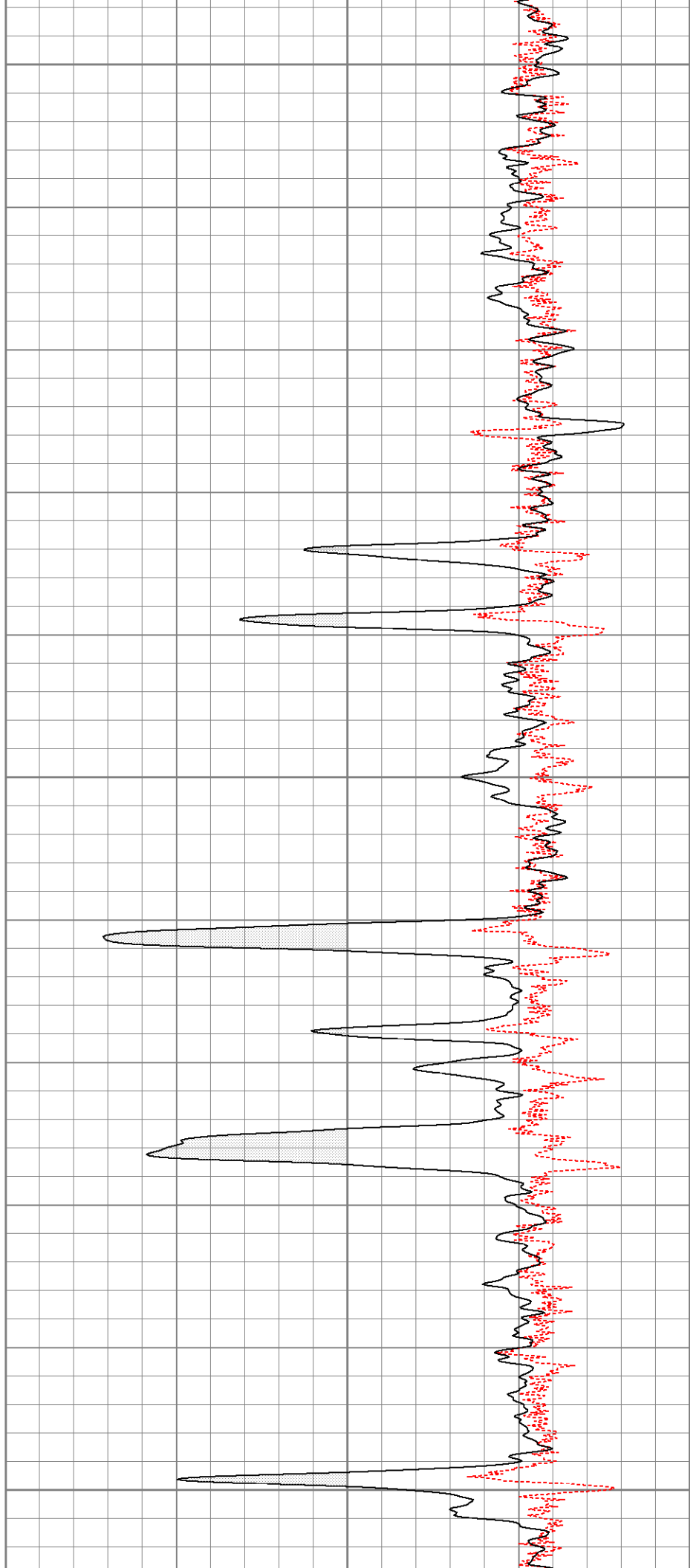
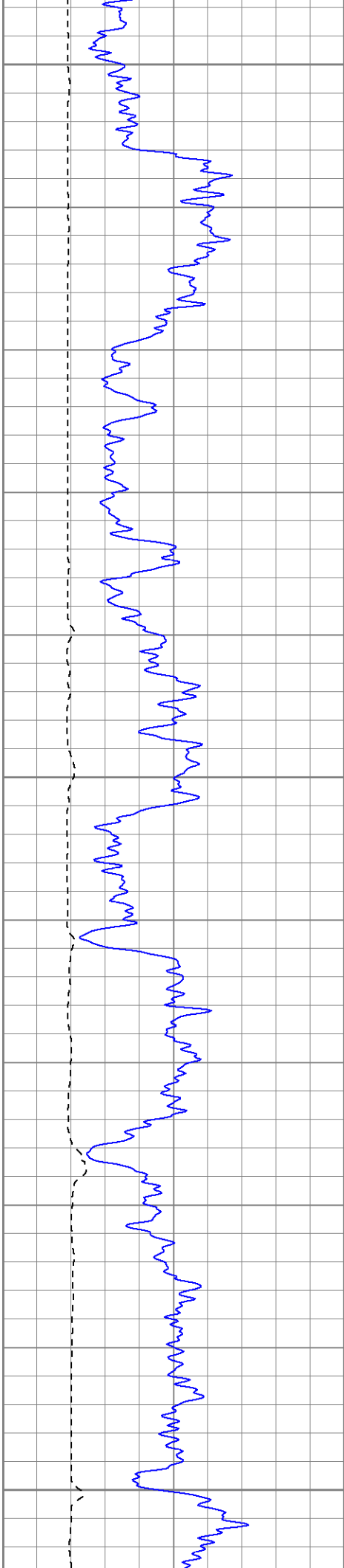
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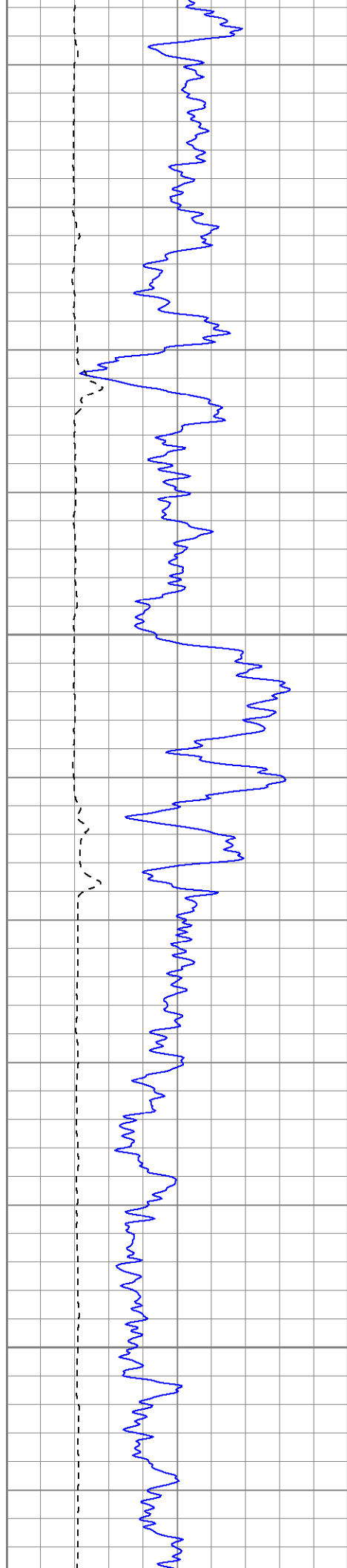


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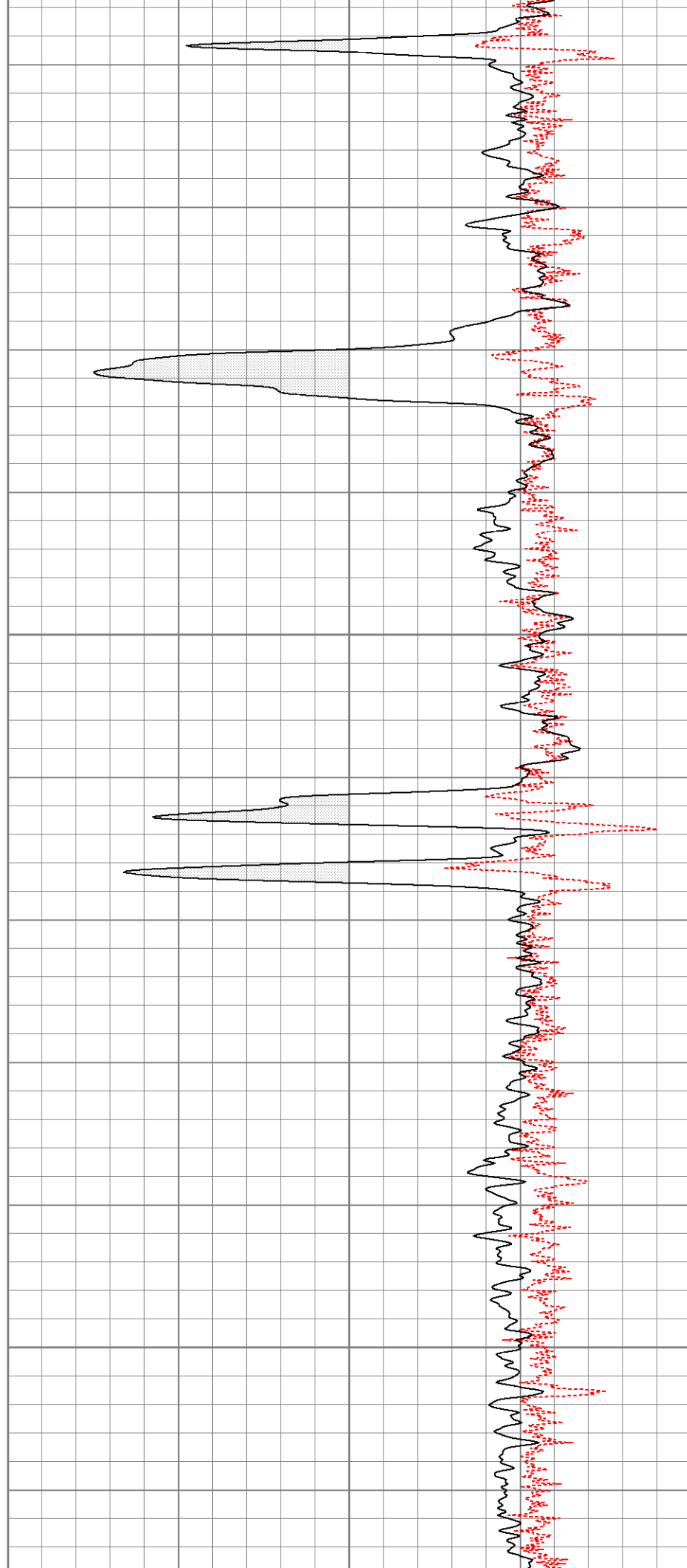
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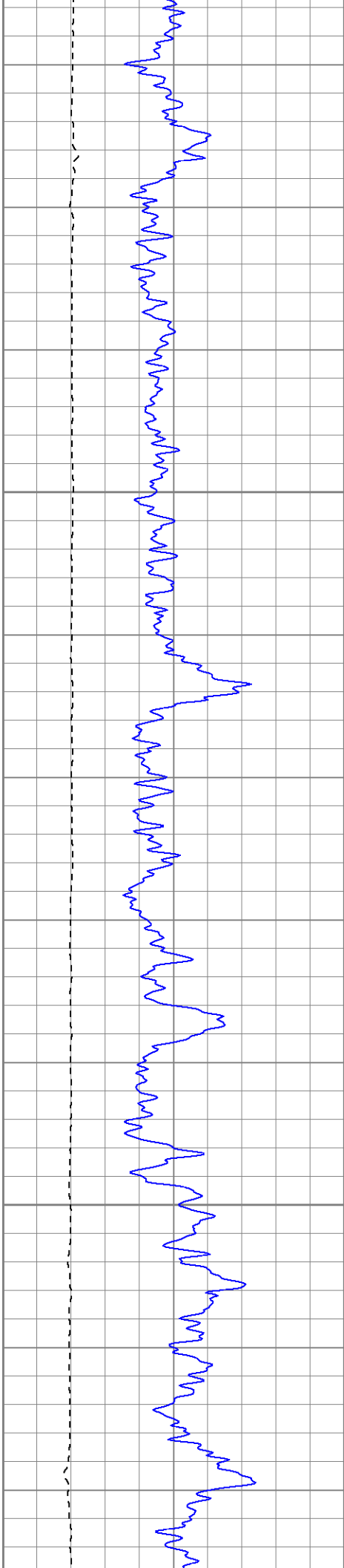




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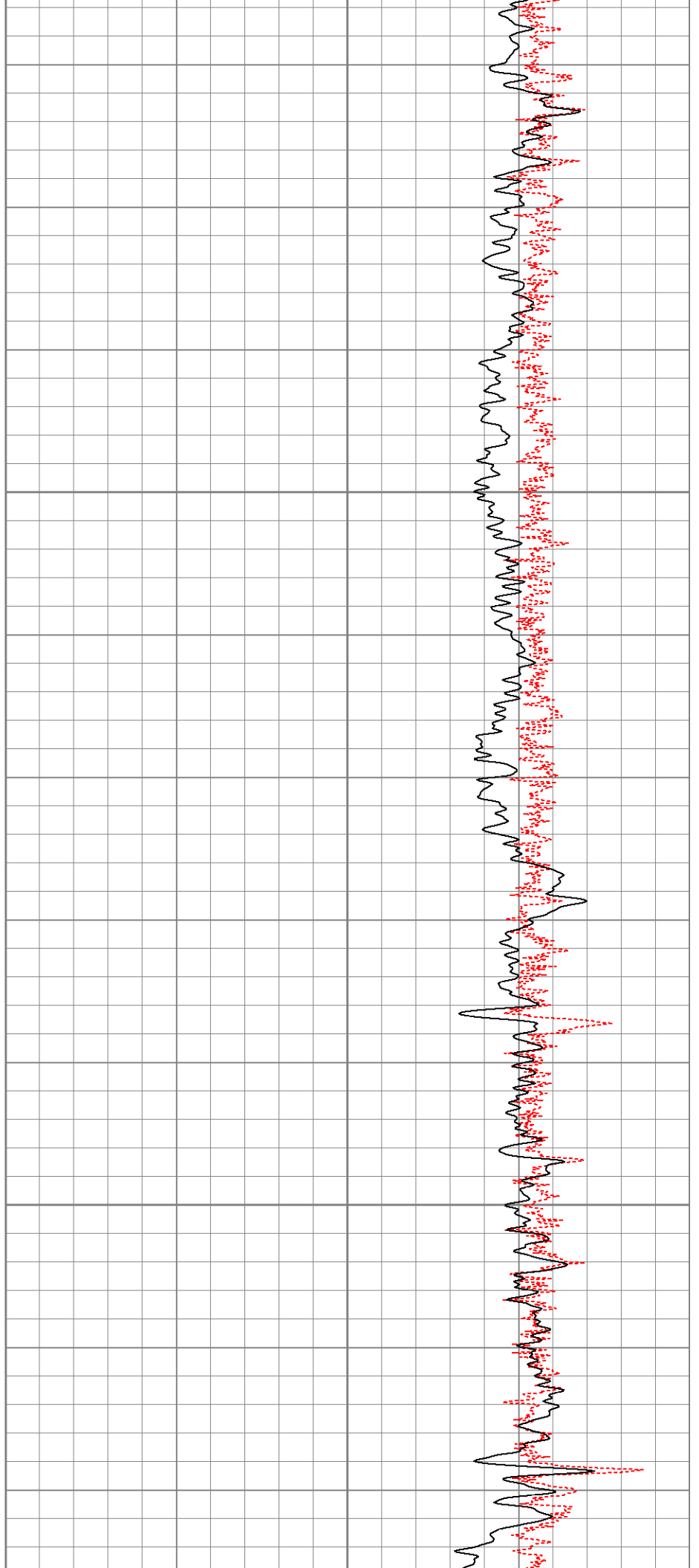
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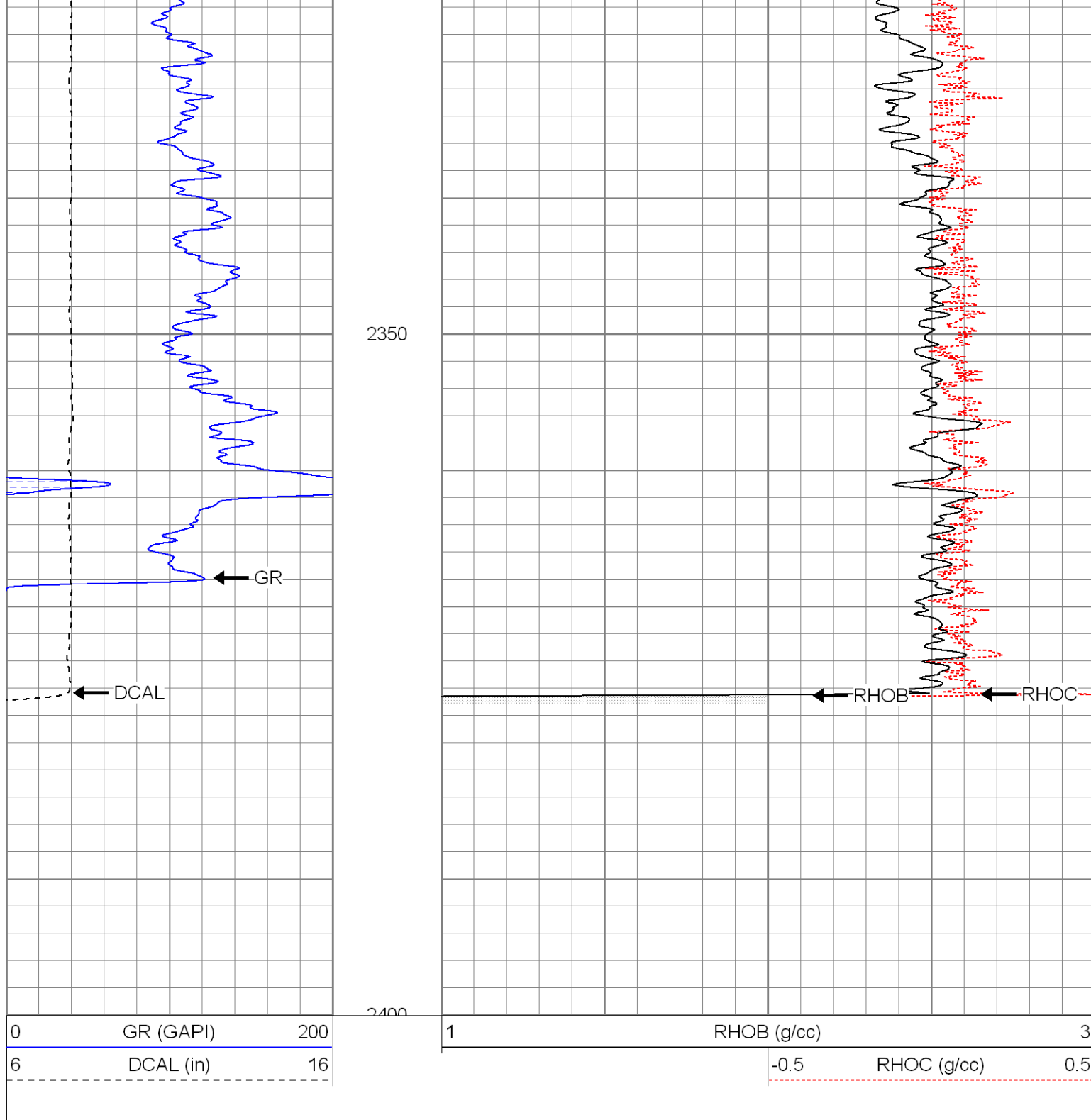




2250

2300





Calibration Report

Database File: xtoge3012.db
 Dataset Pathname: pass1
 Dataset Creation: Wed Jan 30 21:08:18 2008 by Log Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Thu Jan 10 17:04:29 2008
 Downhole Cal Performed: Thu Jan 10 17:05:58 2008

Surface Calibration

Readings

References

Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.621	V	0.000	500.000	mmho-m	807.348	-1.148
Medium	0.005	0.745	V	0.000	550.000	mmho-m	743.100	-3.588
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.621	V	0.000	500.000	mmho-m	806.966	-1.153
Medium	0.005	0.745	V	0.000	550.000	mmho-m	742.904	-3.460

Downhole Calibration								
	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.177	500.330	mmho-m	0.005	500.241	mmho-m	1.000	-0.172
Medium	-0.163	549.964	mmho-m	-0.127	550.018	mmho-m	1.000	0.036
Shallow	2.506	0.009	V	500.000	2.000	Ohm-m	125.000	-3.000

Compensated Density Calibration Report								
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Serial-Model:				2118-poilex				
Source / Verifier:				/				
Master Calibration Performed:				Mon Jan 28 14:40:20 2008				

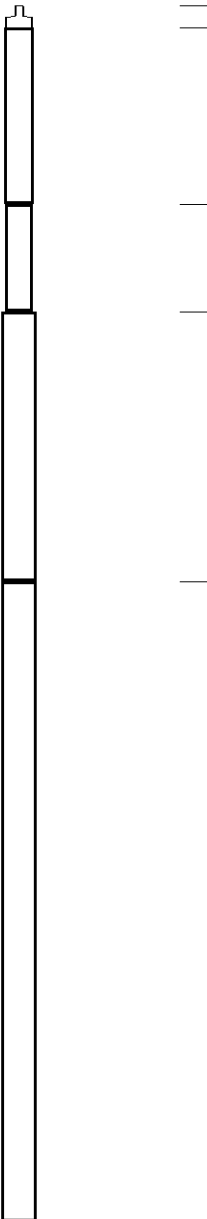
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		692.05		655.57	cps	
Aluminum	2.590	g/cc		158.48		456.38	cps	
Spine Angle = 76.20				Density/Spine Ratio = 0.580				
	Size			Reading				
Small Ring	8.00	in		4.33	V			
Large Ring	14.00	in		8.24	V			

Gamma Ray Calibration Report								
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Serial Number:			2001					
Tool Model:			OH					
Performed:			Tue Jan 08 10:28:42 2008					
Calibrator Value:			1.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			1.0	cps				
Sensitivity:			0.2500	GAPI/cps				

Neutron Calibration Report								
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Serial Number:			5145					
Tool Model:			G					
Performed:			Thu Jan 10 08:01:02 2008					
Calibrator Value:			1200	NAPI				
Calibrator Reading:			1700	cps				
Sensitivity:			1	NAPI/cps				

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.19		None	0.75	1.50	5.00
			NEU-G (5145) Gearhart Epithermal	5.75	3.50	85.00
GR	31.62		GR-OH (2001) SIE	3.50	3.25	40.00
LSD	23.45		CDL-poilex (2118)	8.79	4.00	275.00
DCAL	23.04					
SSD	22.91					
CILD SP	10.60 10.60		DIL-G (5375) Gearhart	20.83	4.00	345.00
CILM	6.89					
RLL3	1.70					
Dataset: xtoge3012.db: field/well/run1/pass1 Total Length: 39.62 ft Total Weight: 750.00 lb O.D.: 4.00 in						