

Company	Pioneer Natural Resources	Company	Pioneer Natural Resources
Well	Larissa 32-35	Well	Larissa 32-35
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API #: 05 071 09856 00 2611' FNL & 1685' FEL		Other Services
Permanent Datum	SEC 35	TWP 32S	RGE 68W
Log Measured From	Ground Level	Elevation	7994'
Drilling Measured From	Kelly Bushing 9' AGL	Elevation	8003'
	Kelly Bushing	D.F. -----	
		G.L. 7994'	
Date	10-9-11		
Run Number	One		
Depth Driller	2580'		
Depth Logger	2580'		
Bottom Logged Interval	2568'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 689'		
Casing Logger	688'		
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	8:30 P.M.		
Time Logger on Bottom	2:30 A.M.		
Maximum Recorded Temperature	96 DEG F		
Equipment Number	T590		
Location	Trinidad		
Recorded By	C. Sisneros		
Witnessed By	Mr. Derrick 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

Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5.5" Casing.

Database File: larissa.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Sun Oct 09 03:43:31 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

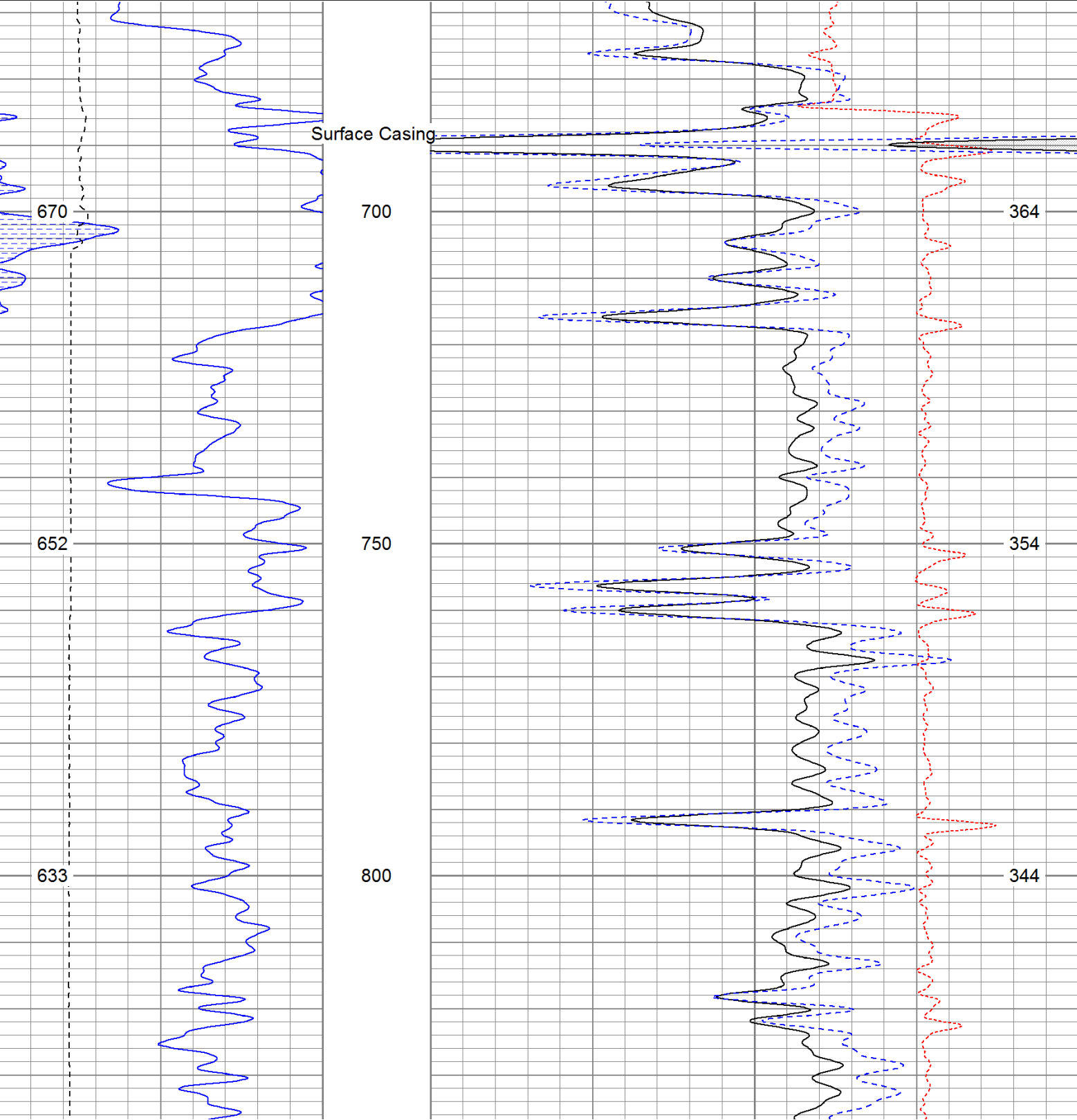
0	GR (GAPI)	200
6	DCAL (in)	16

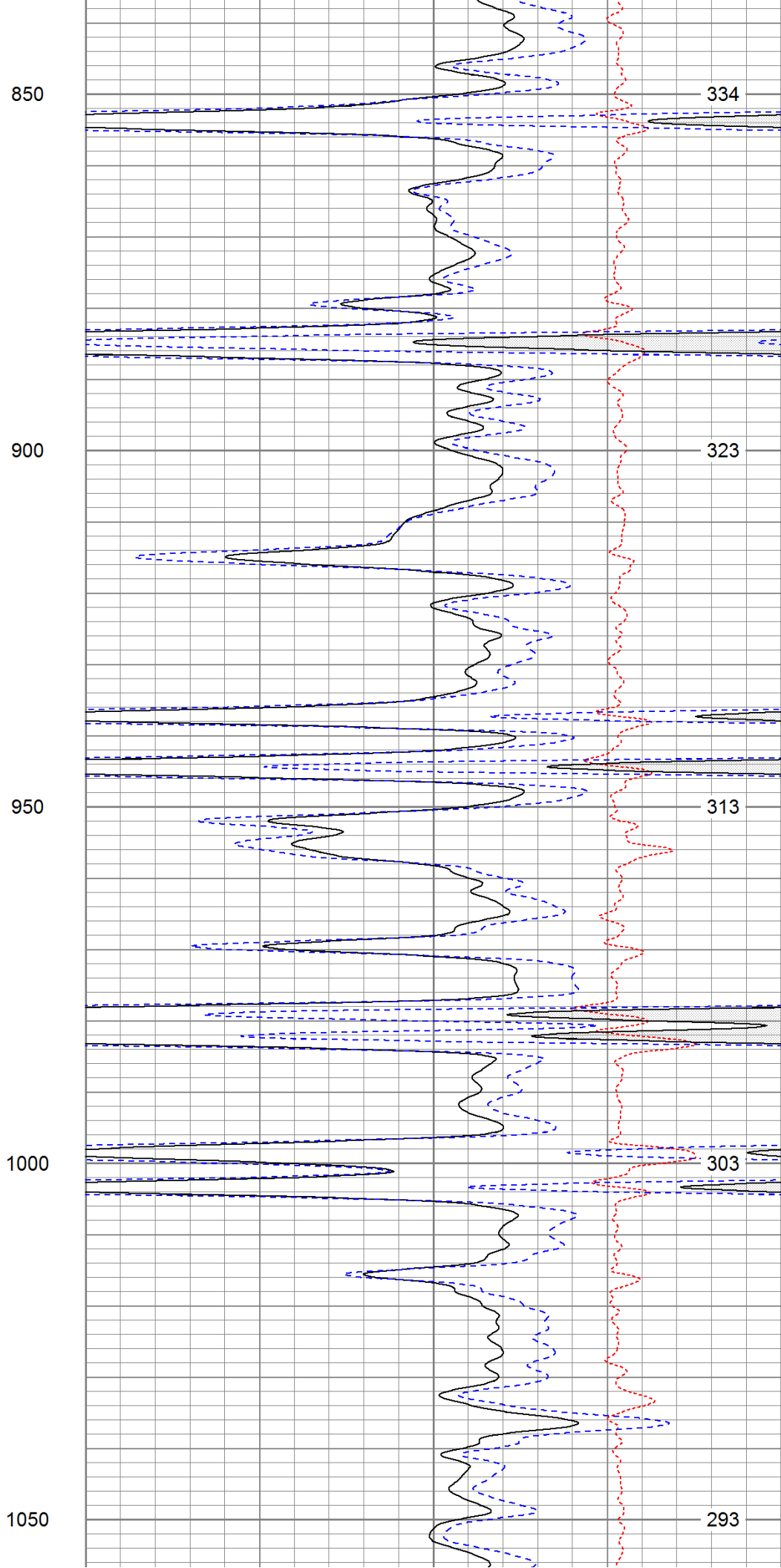
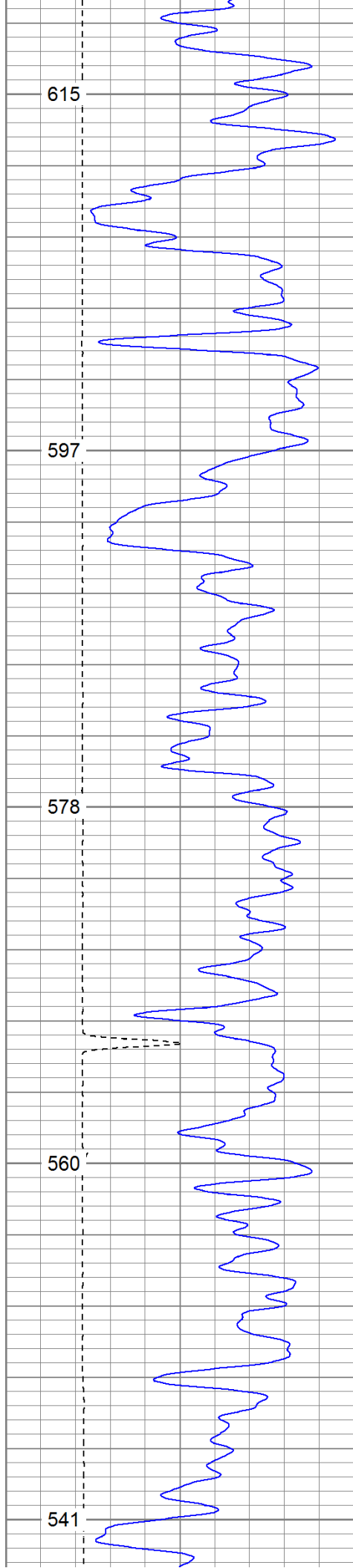
TBHV (ft3)		

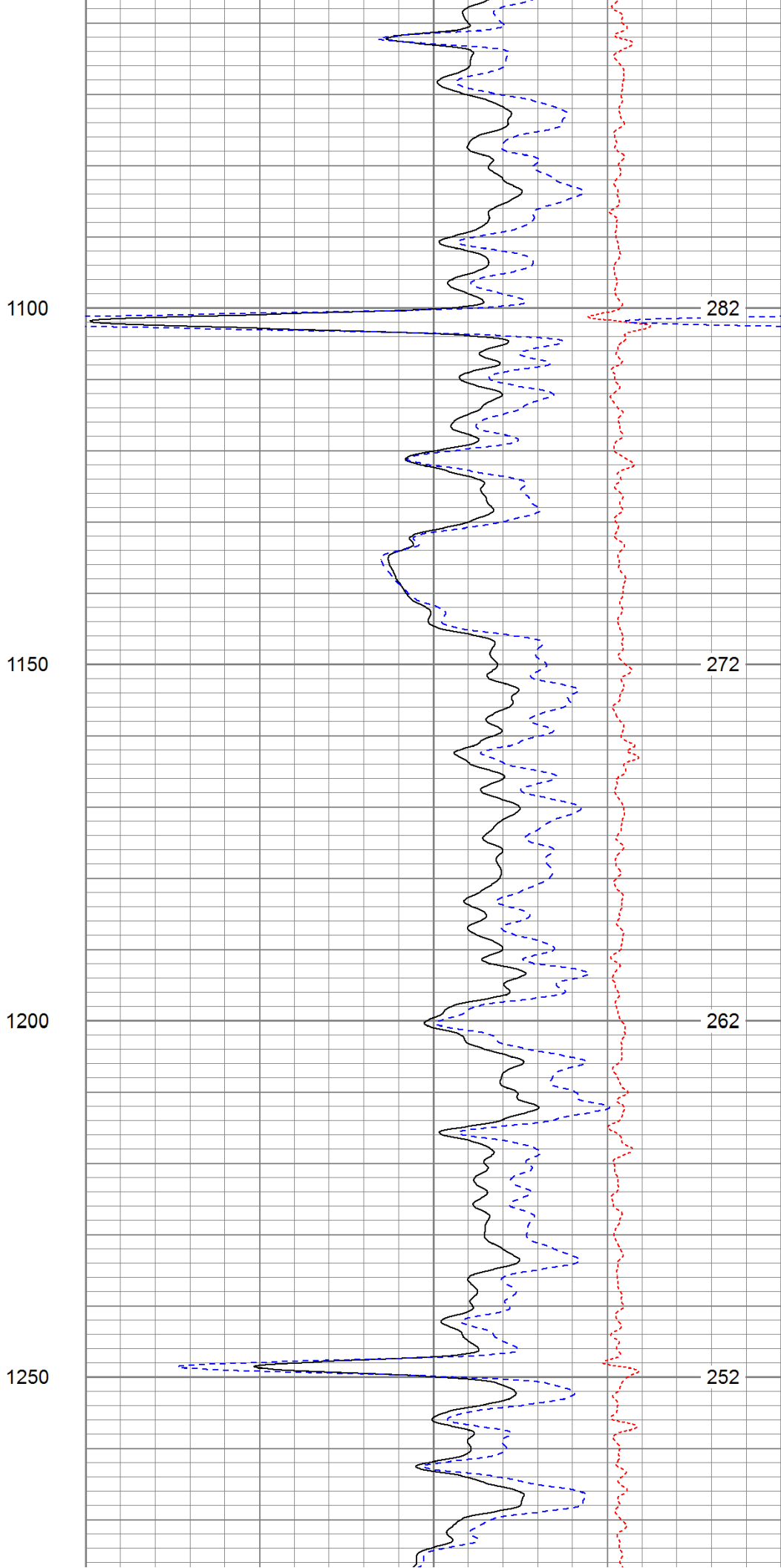
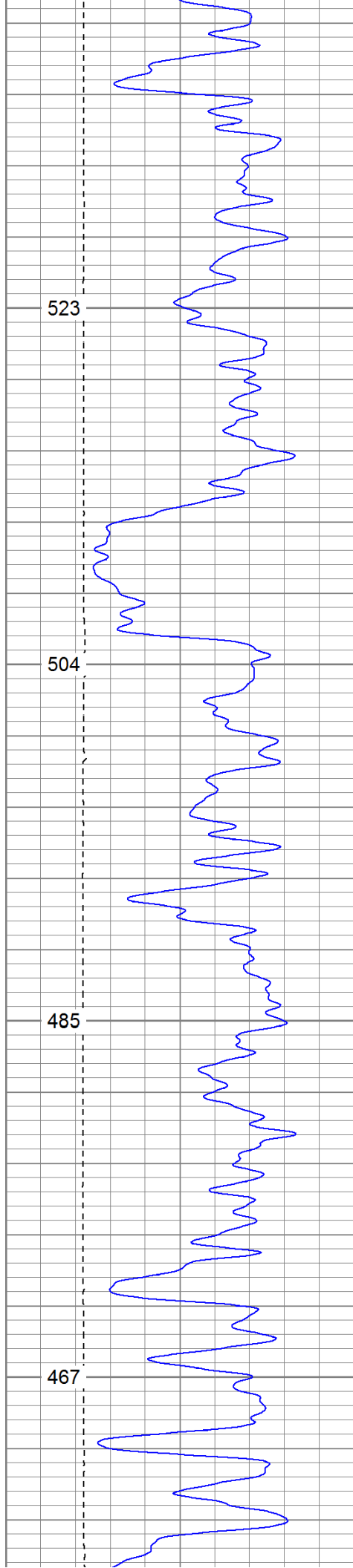
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10

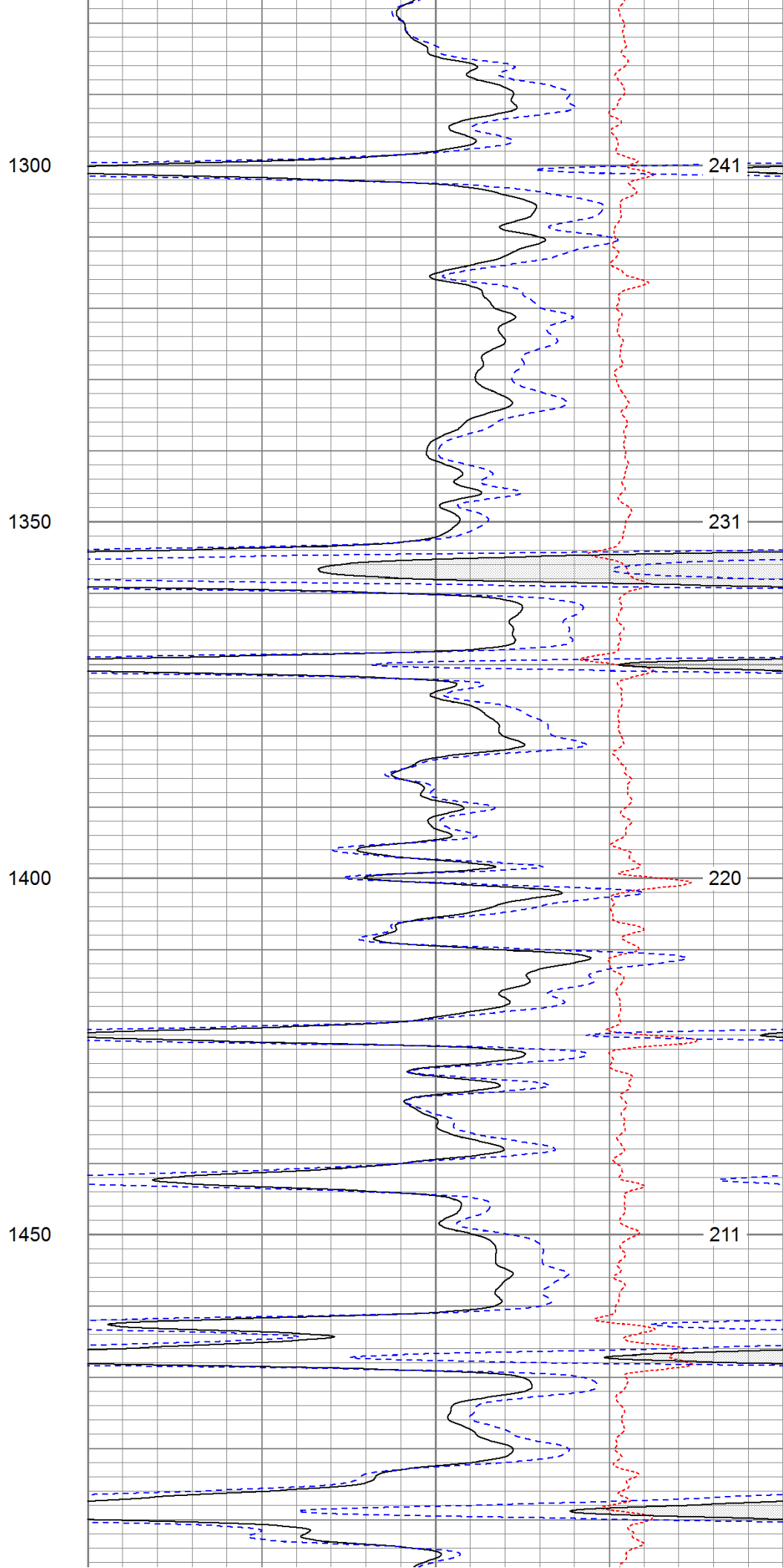
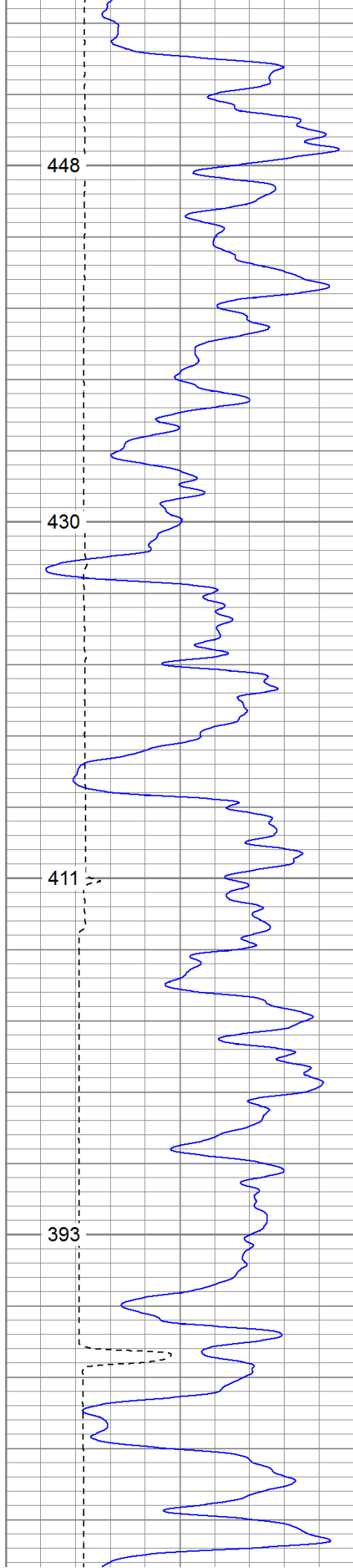
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0

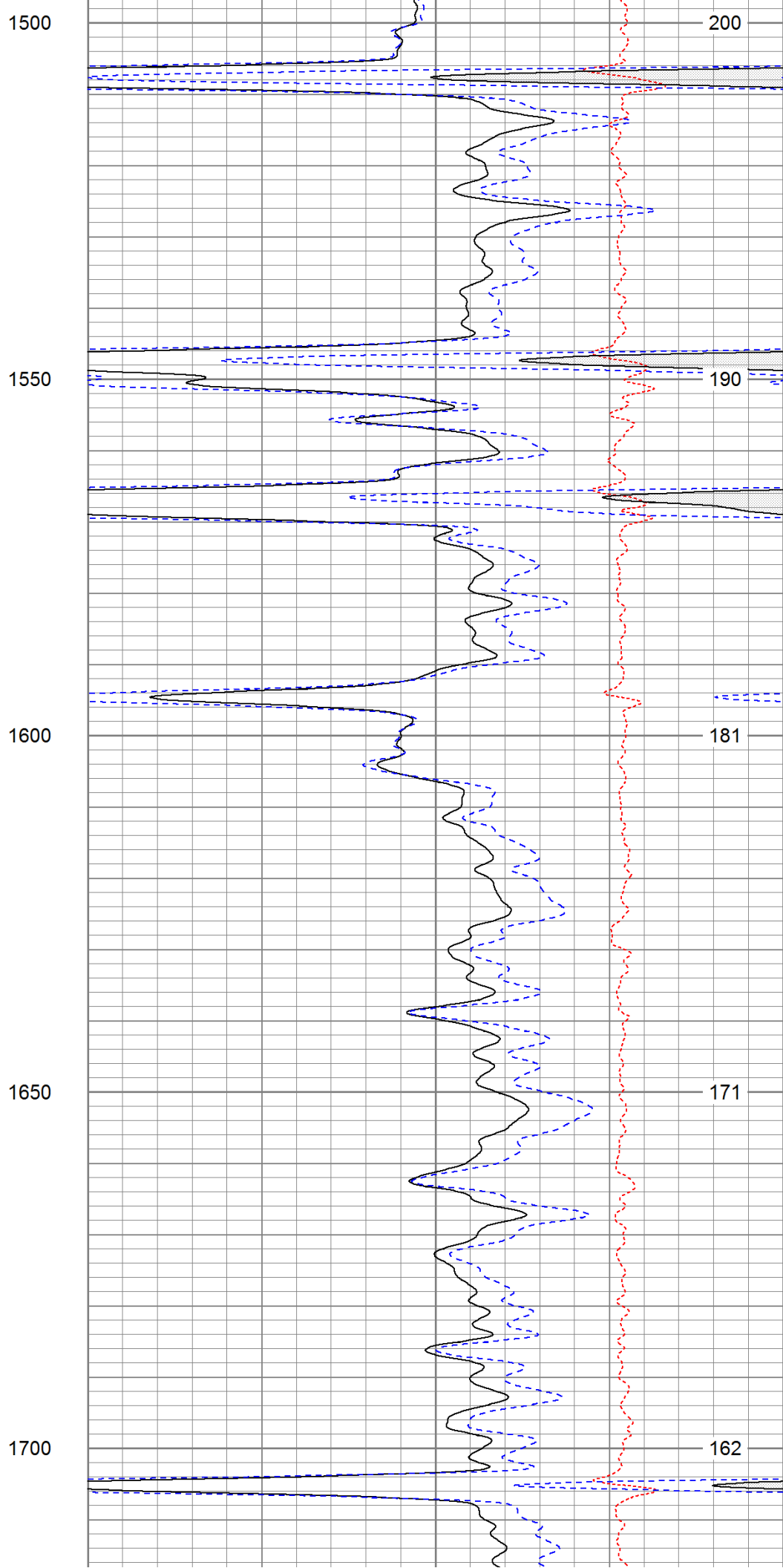
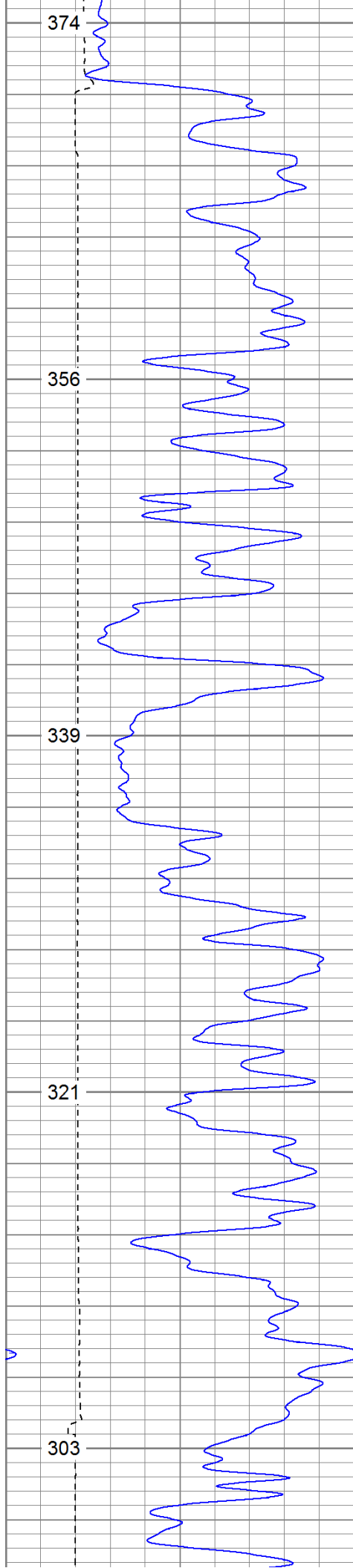
	ABHV (ft3)	

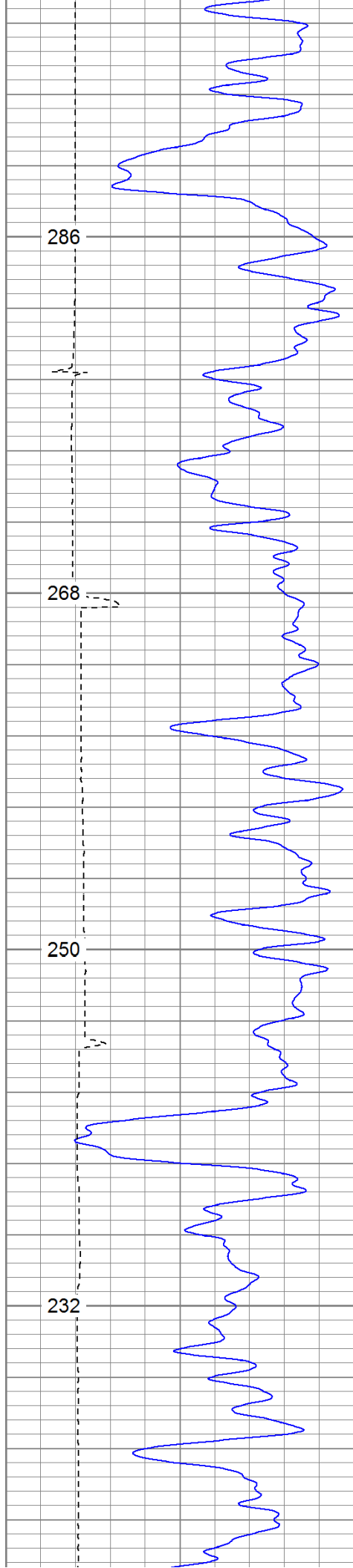










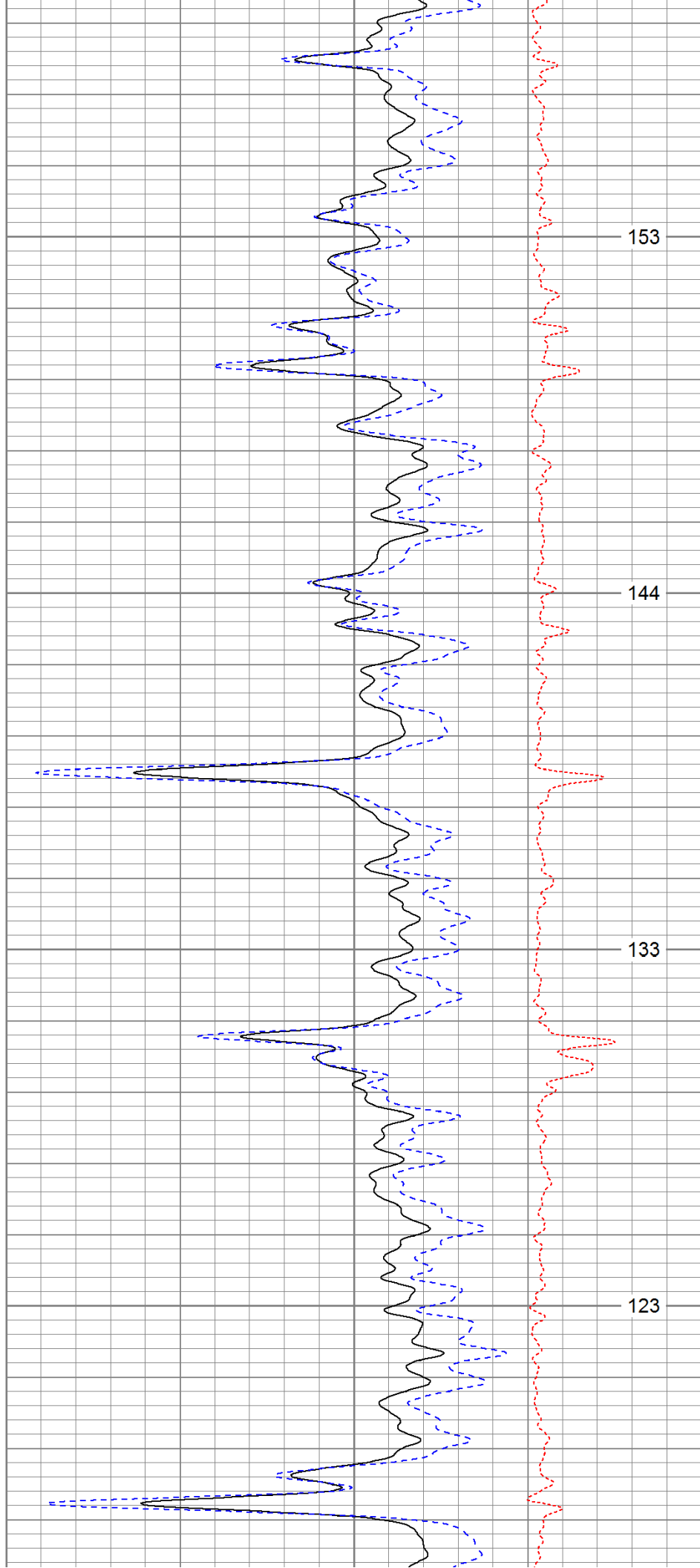


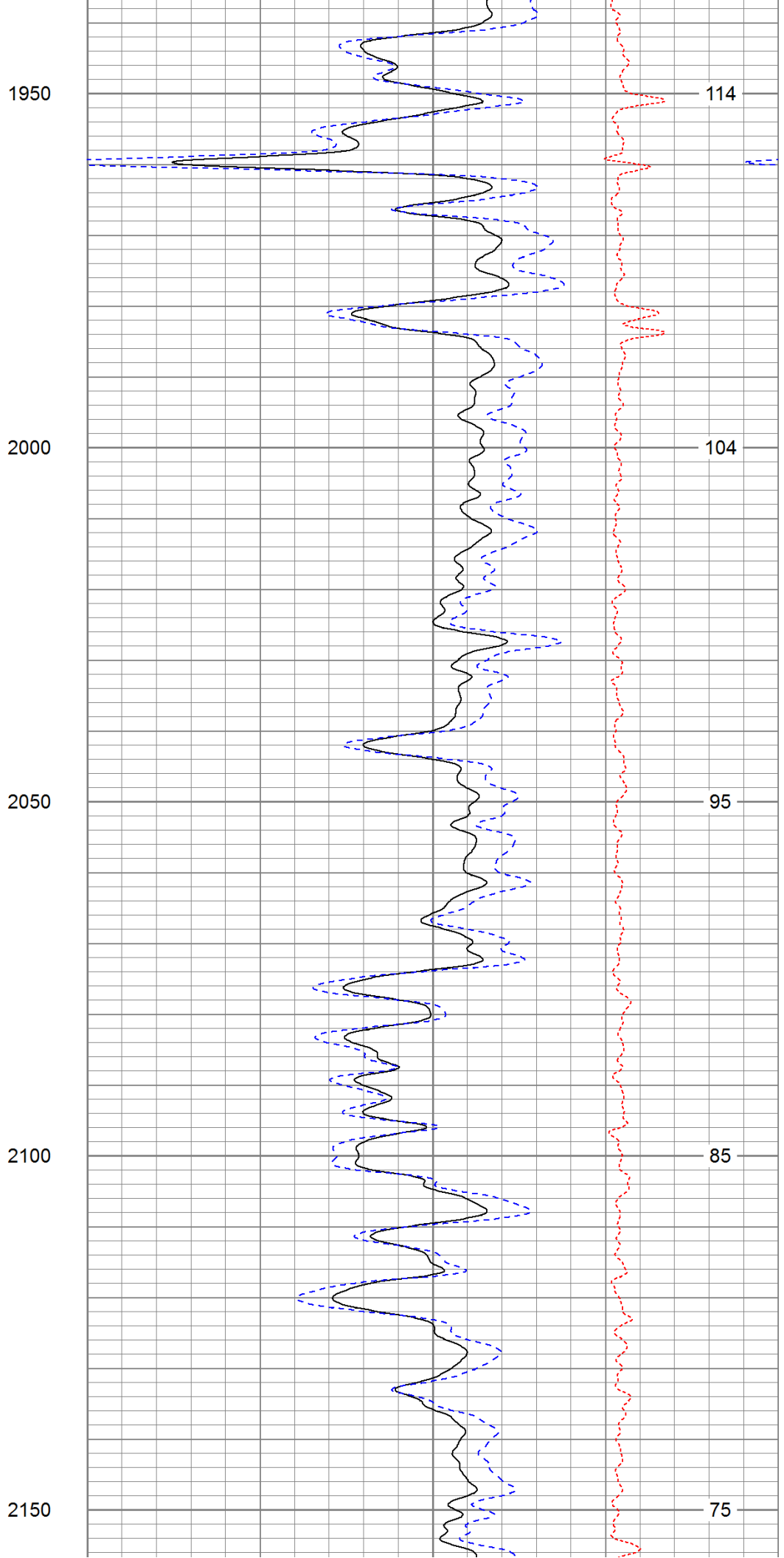
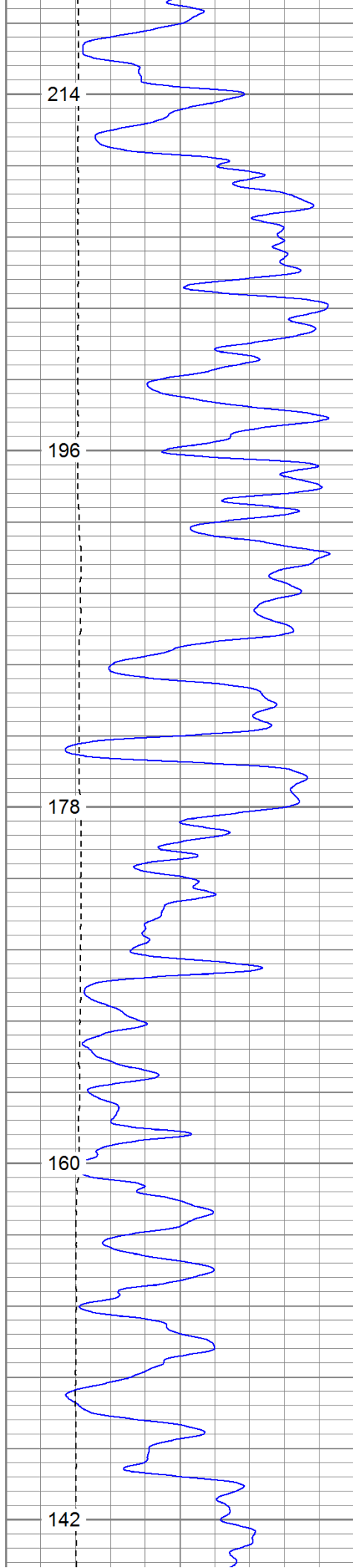
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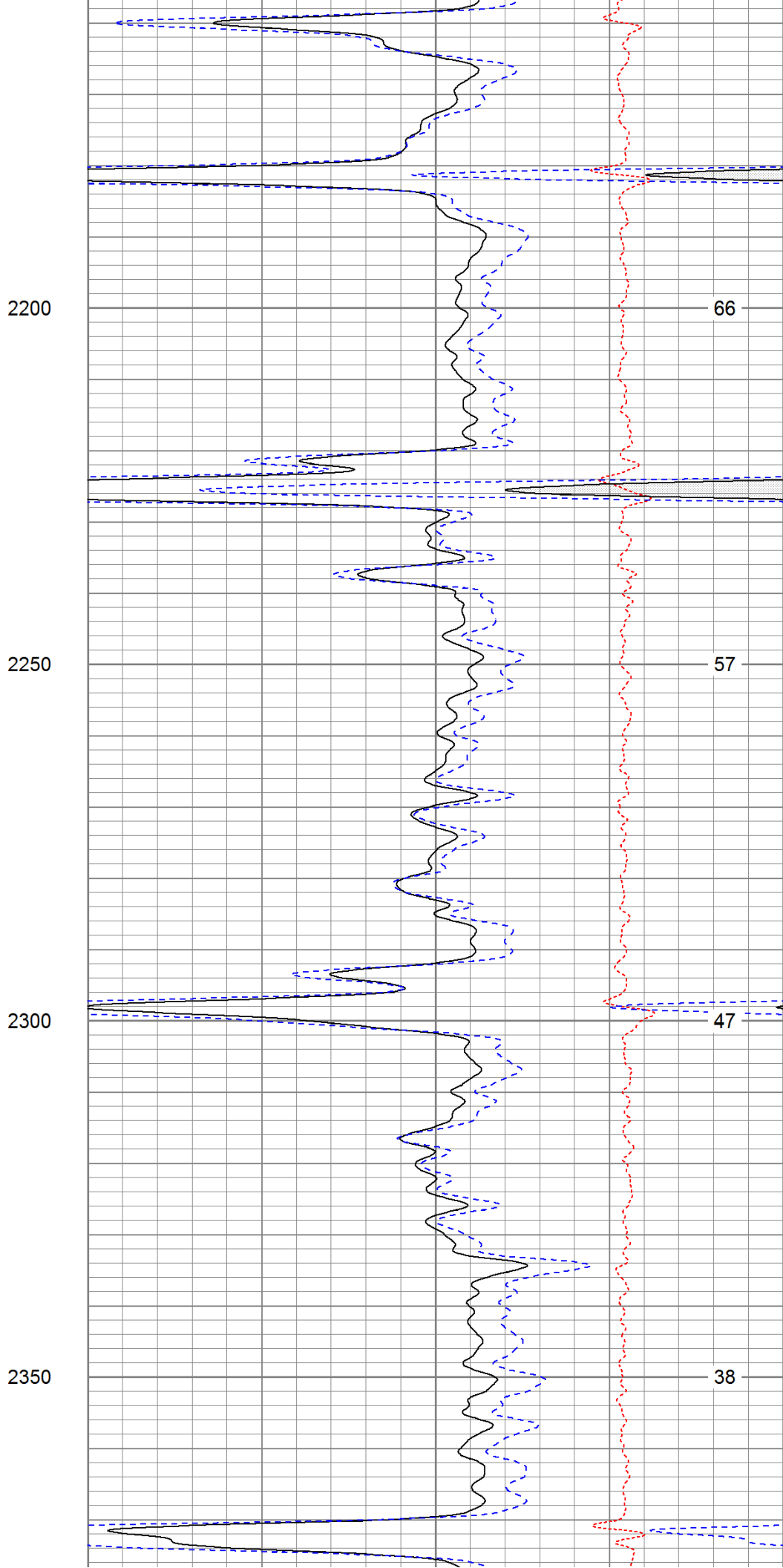
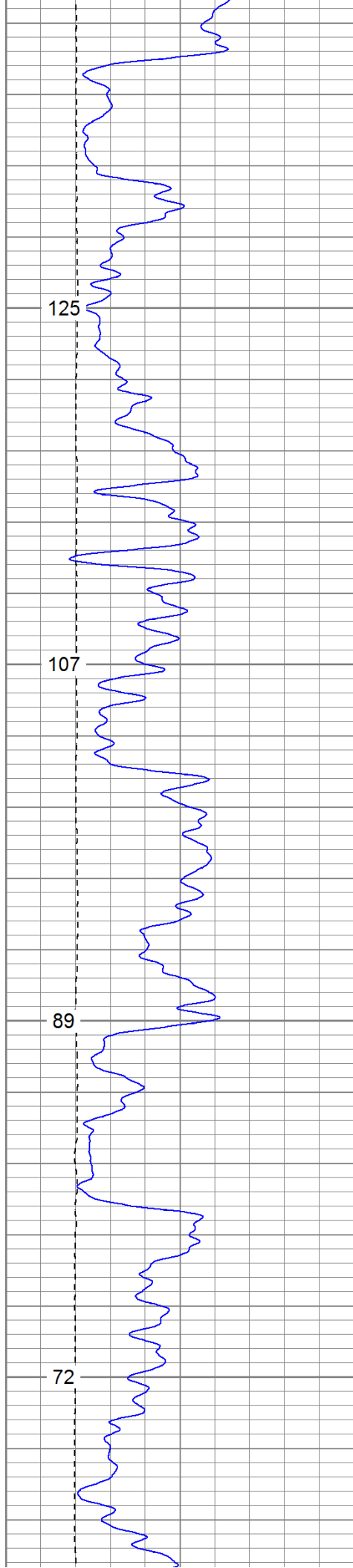
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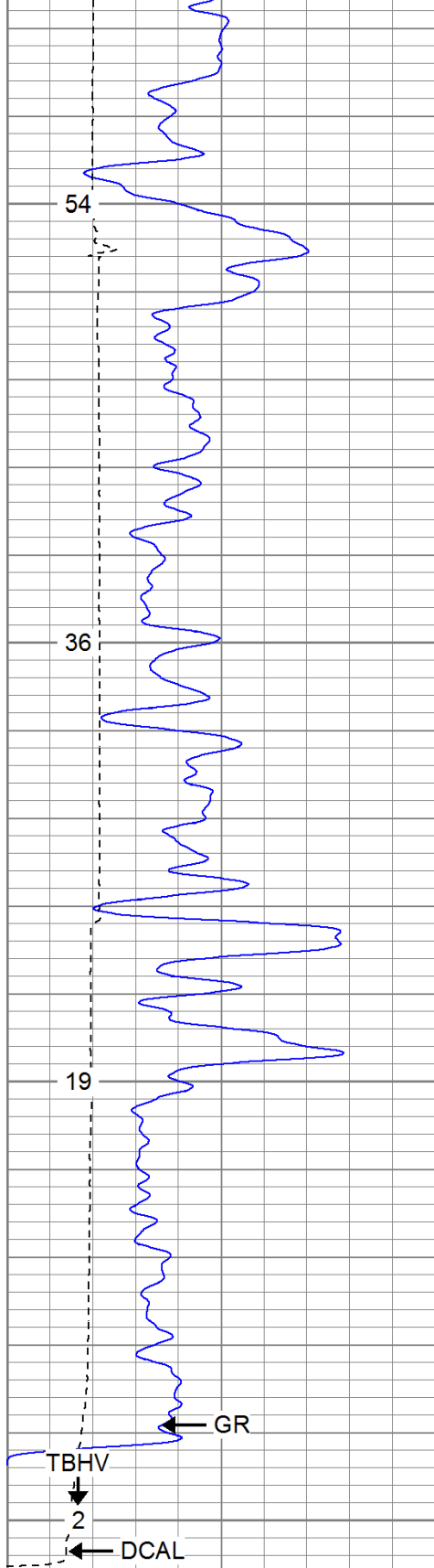
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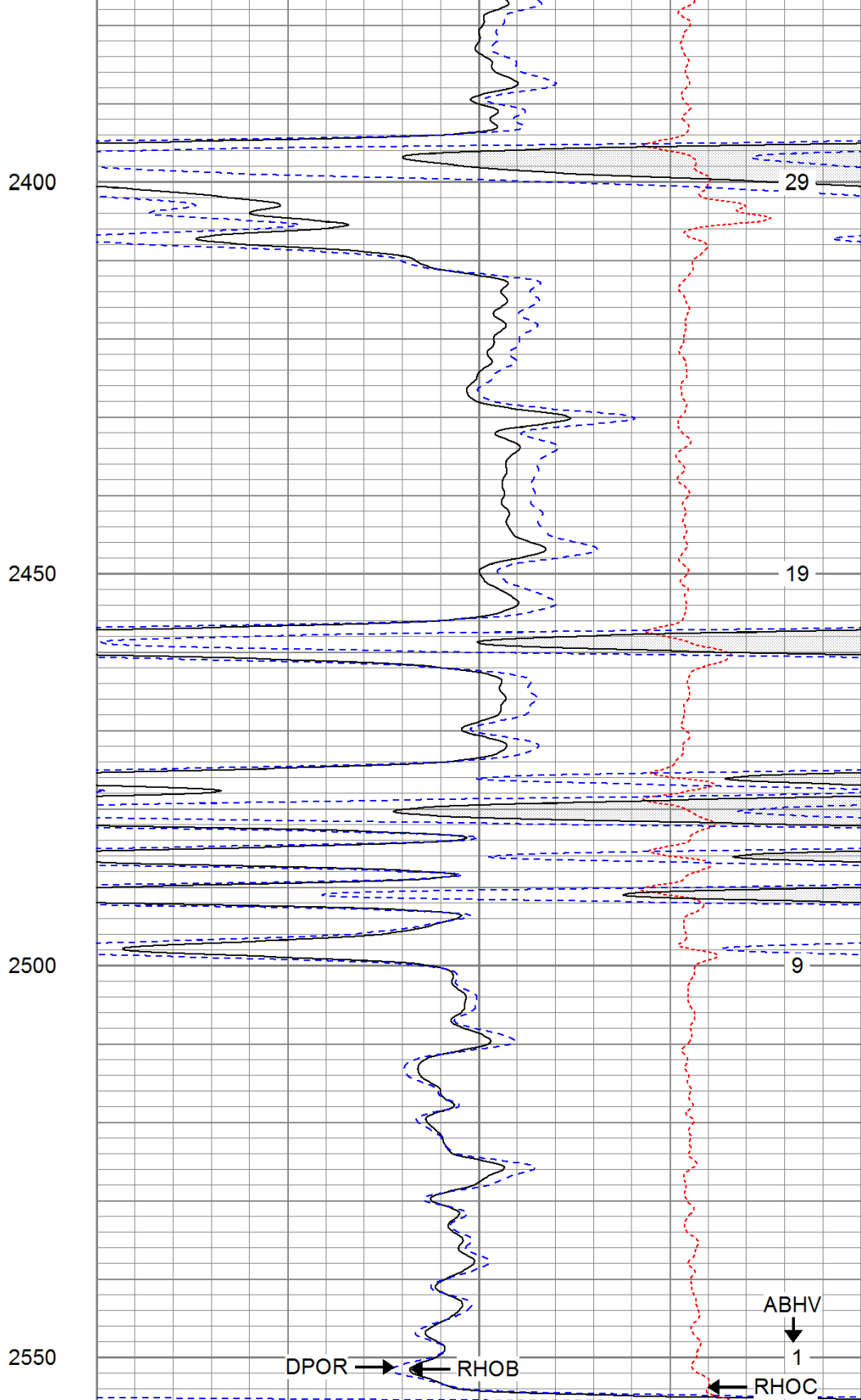








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



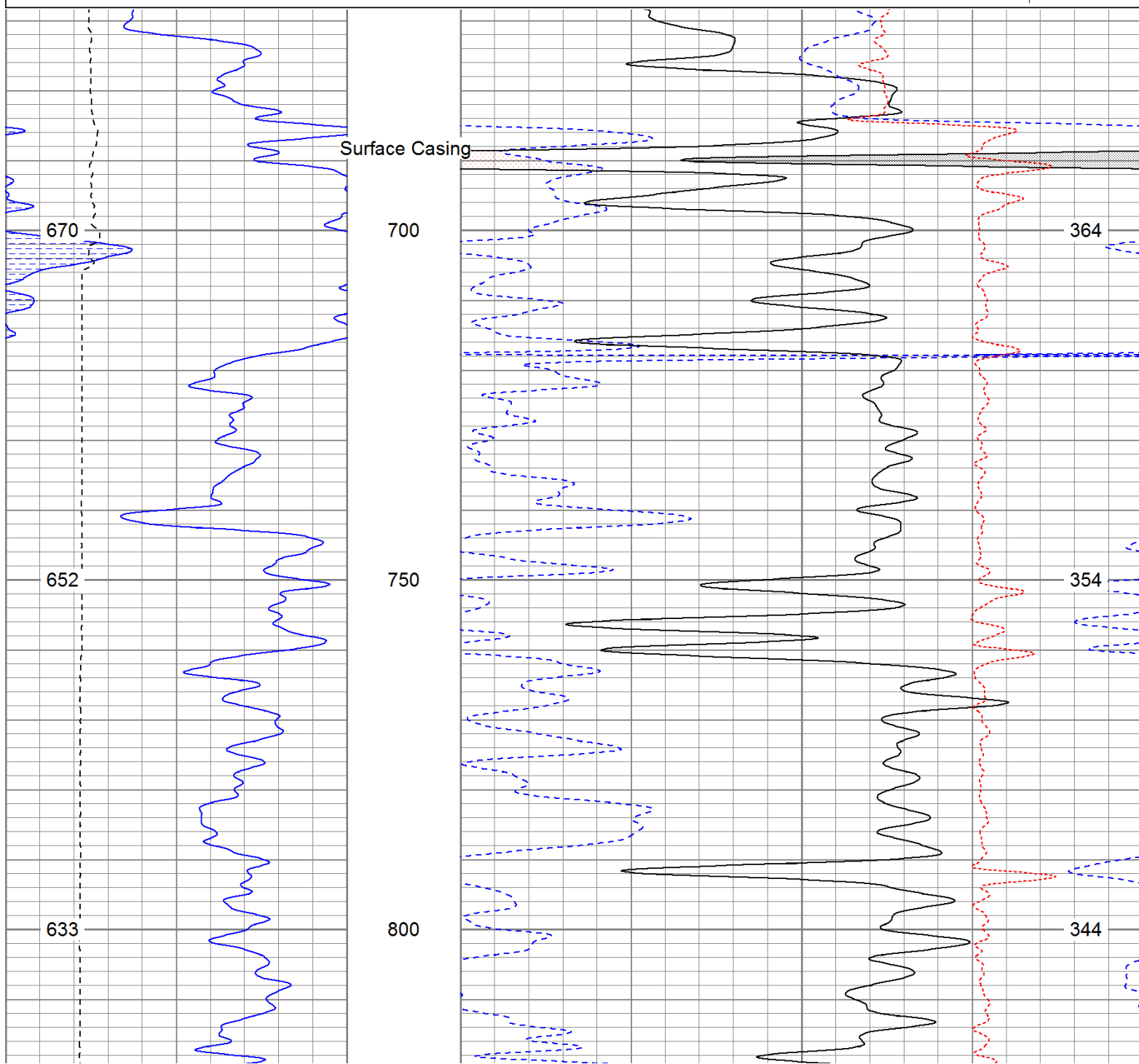
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0

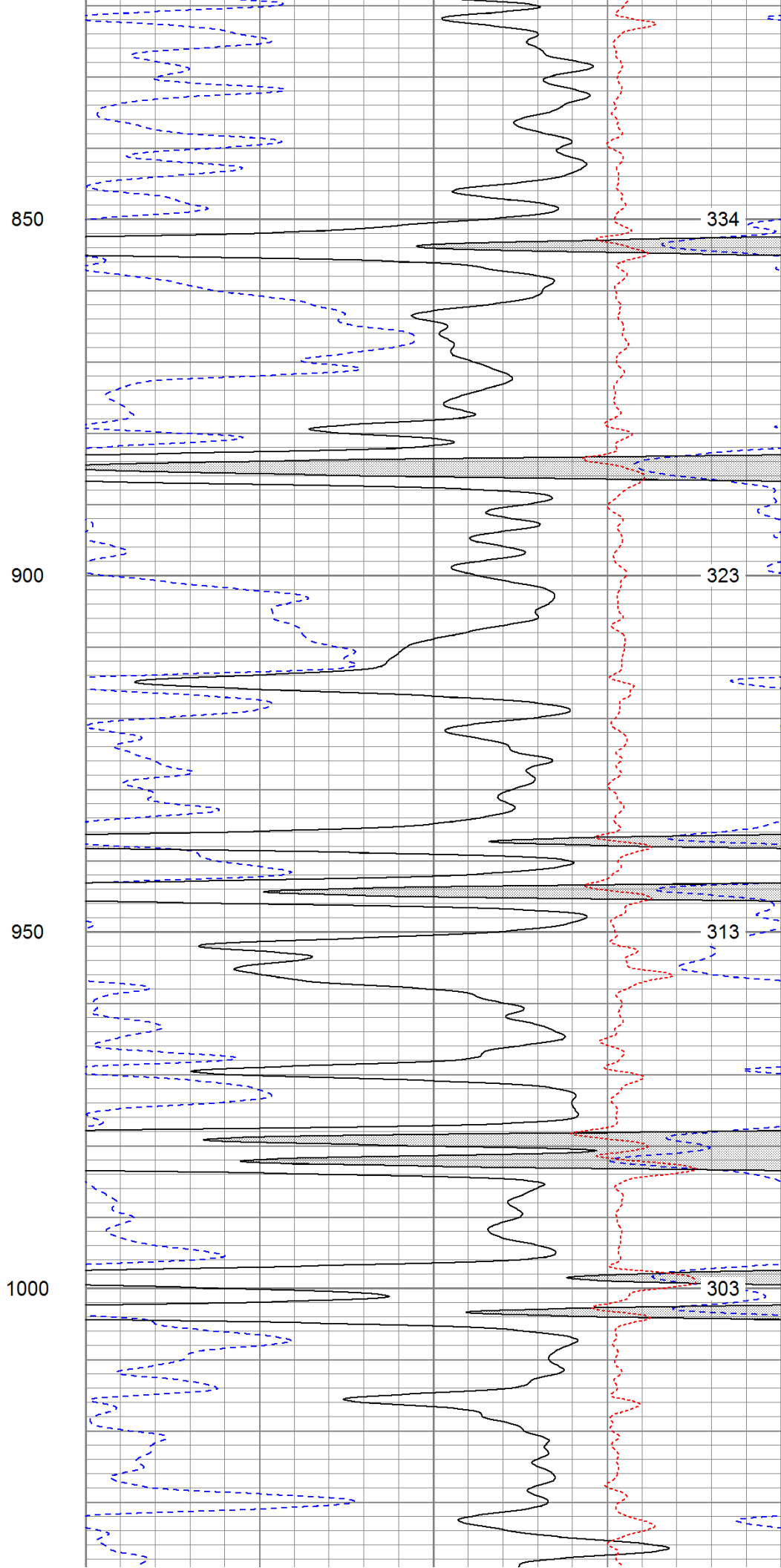
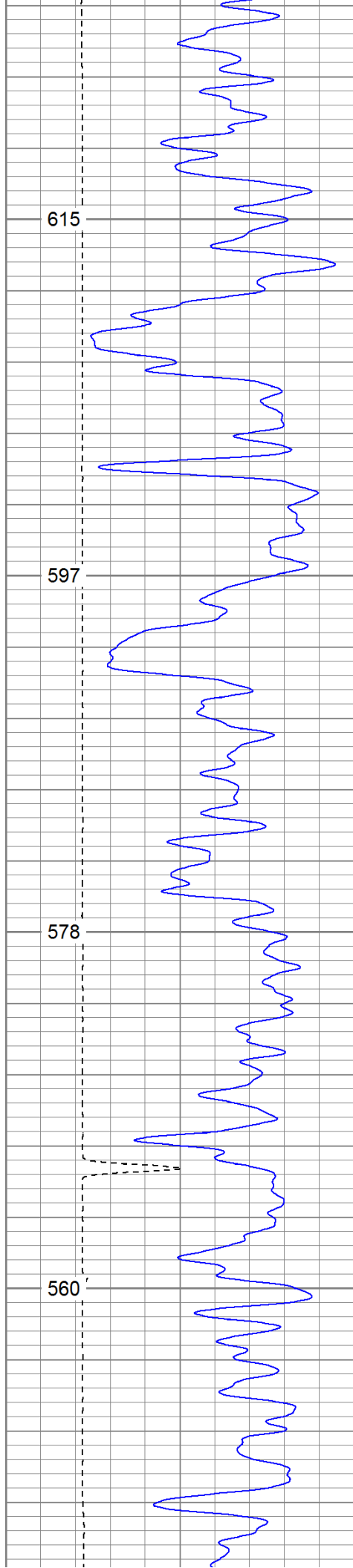


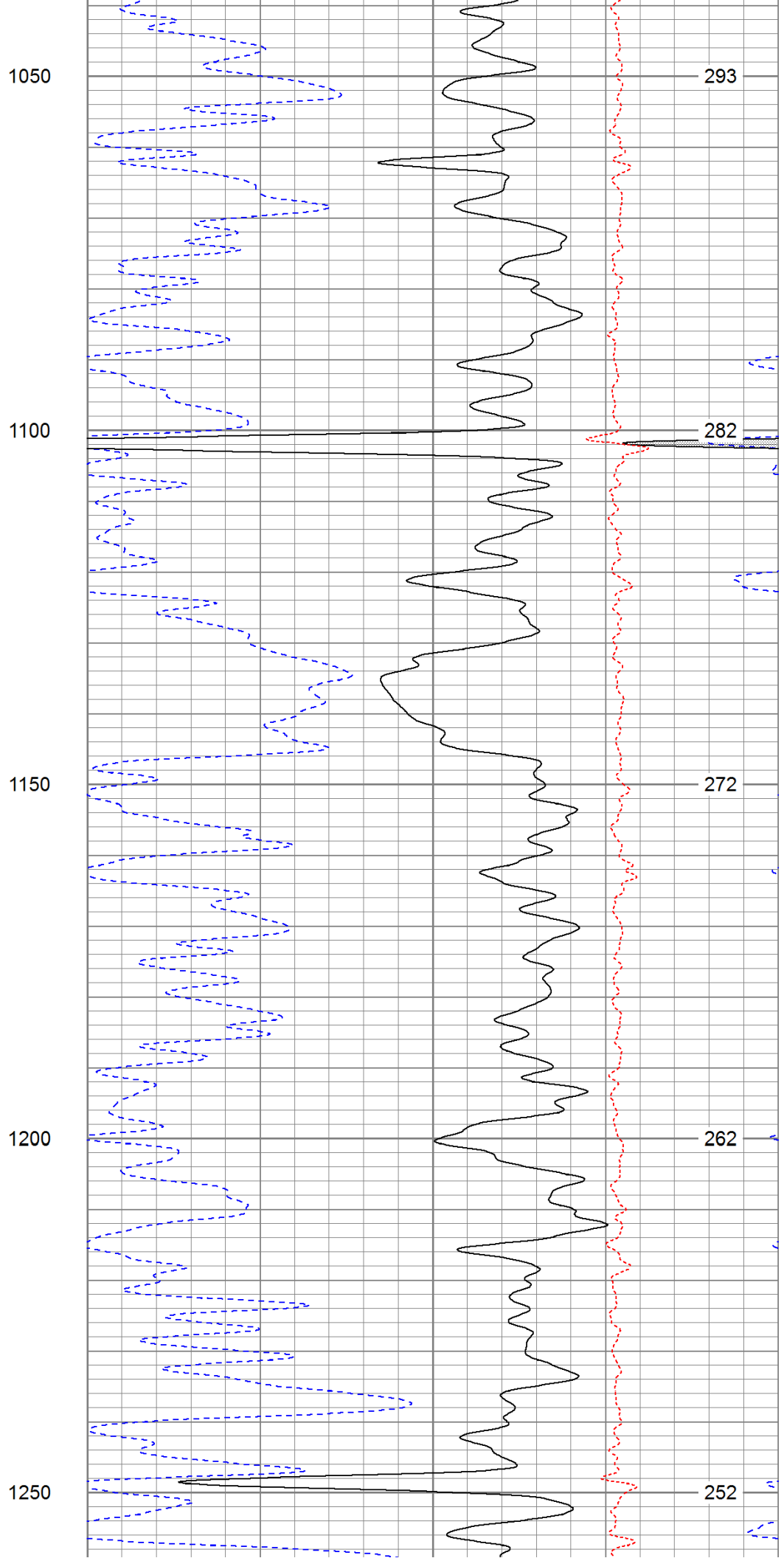
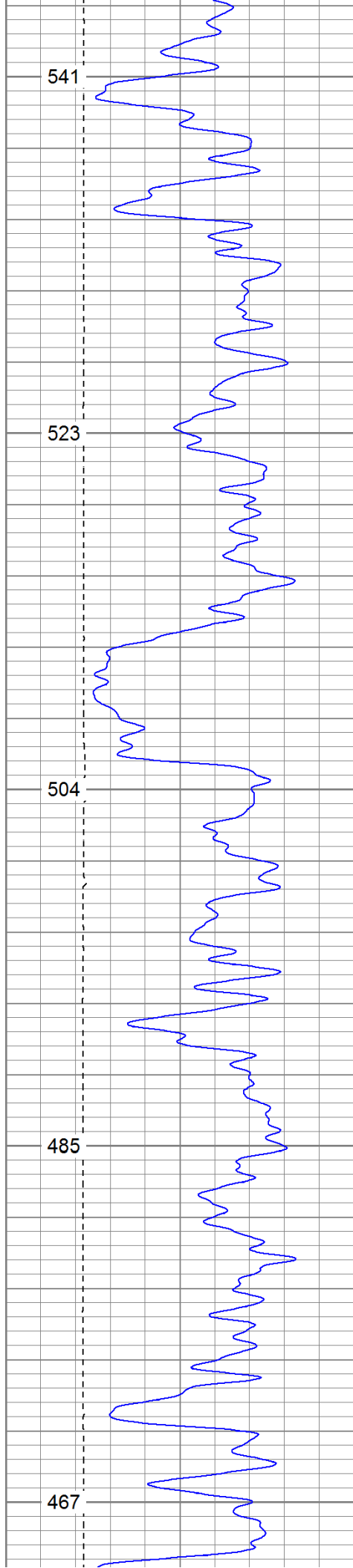
Main Pass

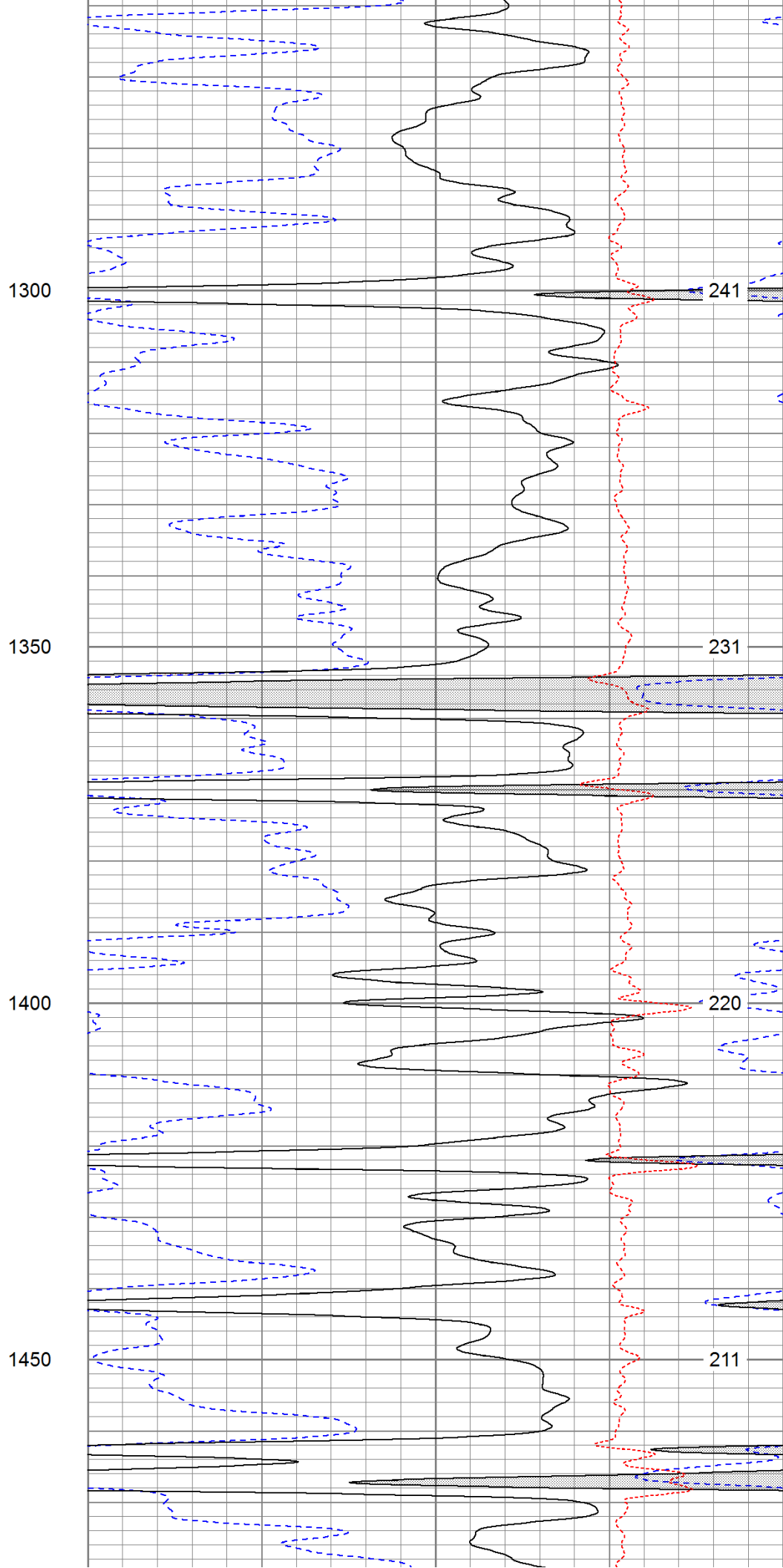
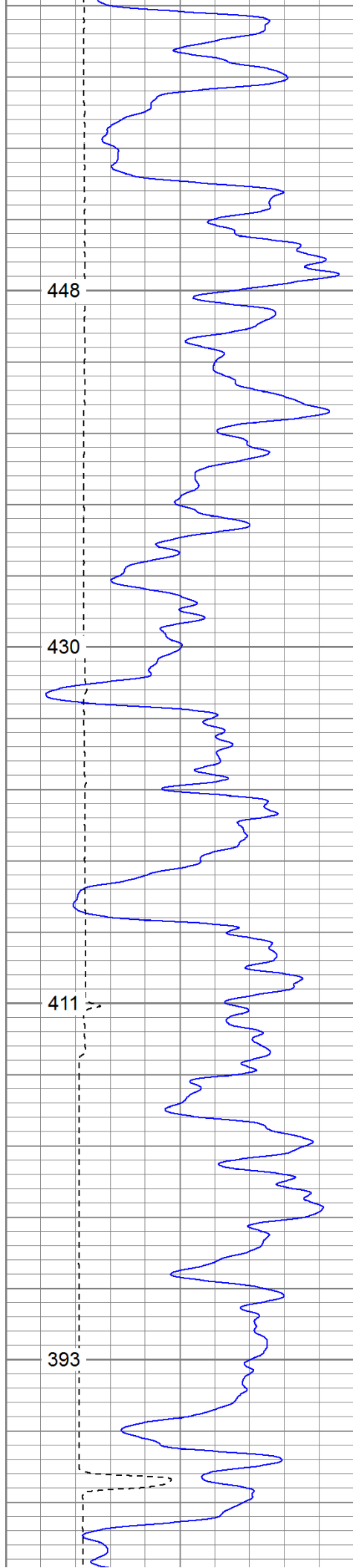
Database File: larissa.db
 Dataset Pathname: pass2.1
 Presentation Format: cdnl
 Dataset Creation: Sun Oct 09 03:43:31 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

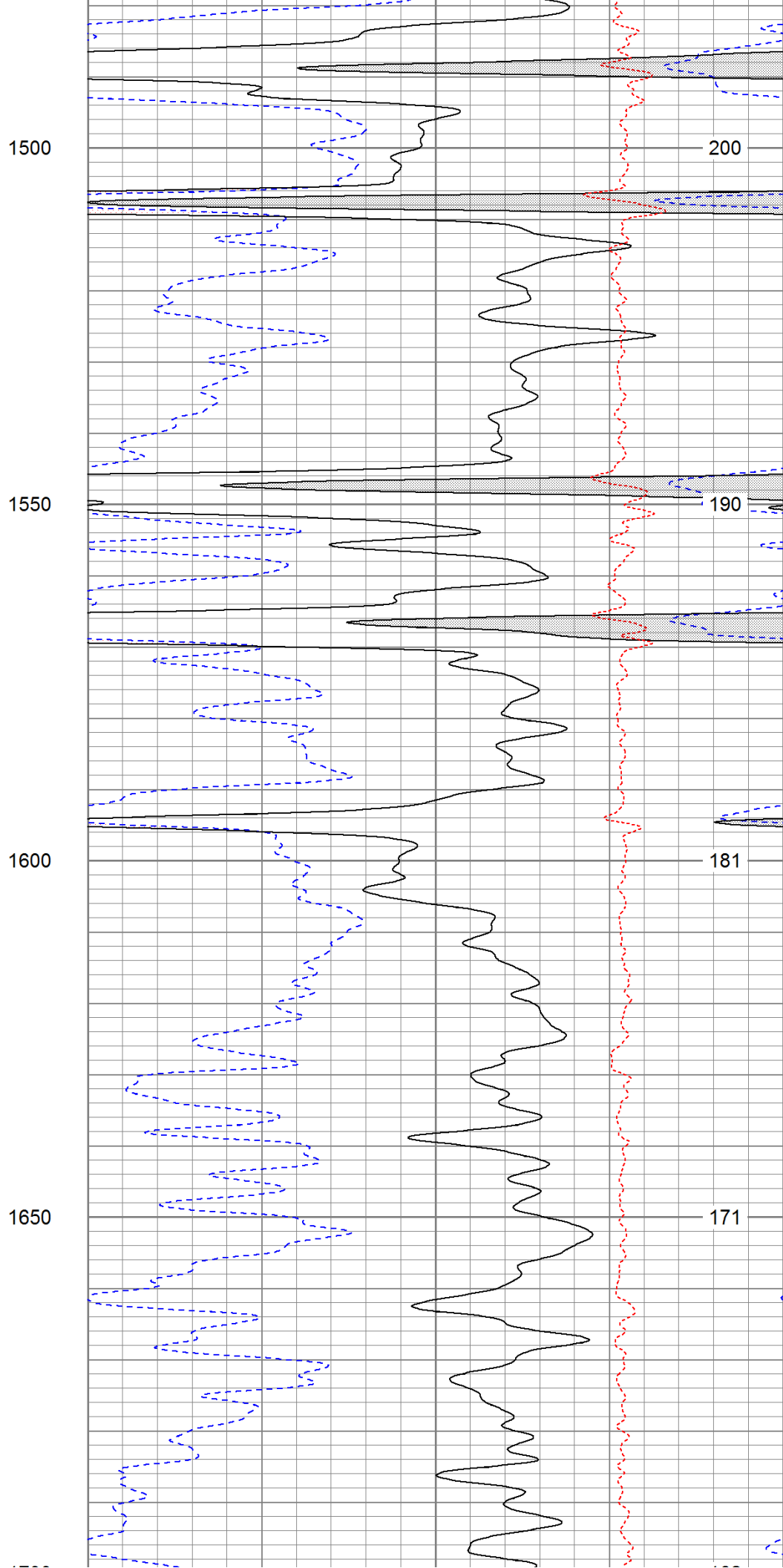
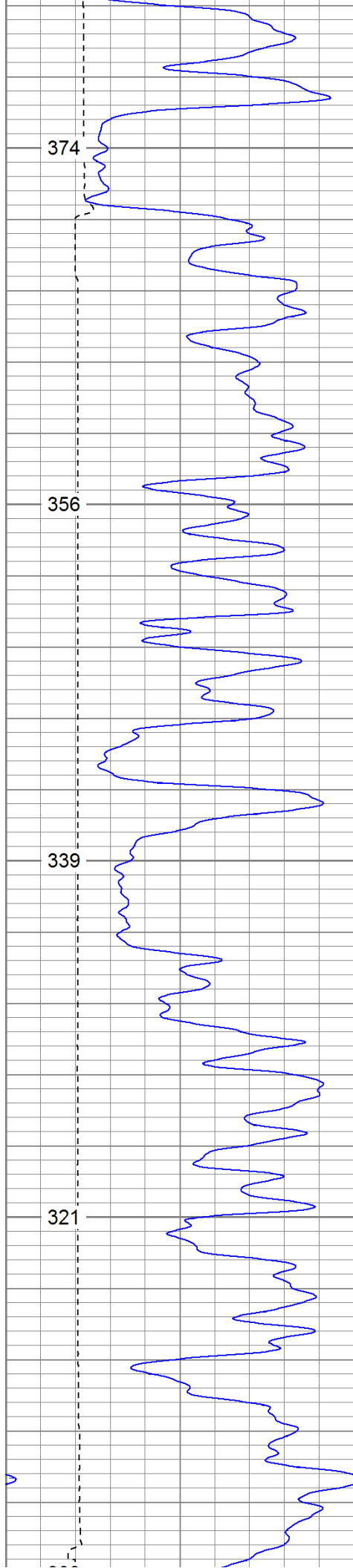
0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5	RHOC (g/cc)	0.5
					ABHV (ft3)

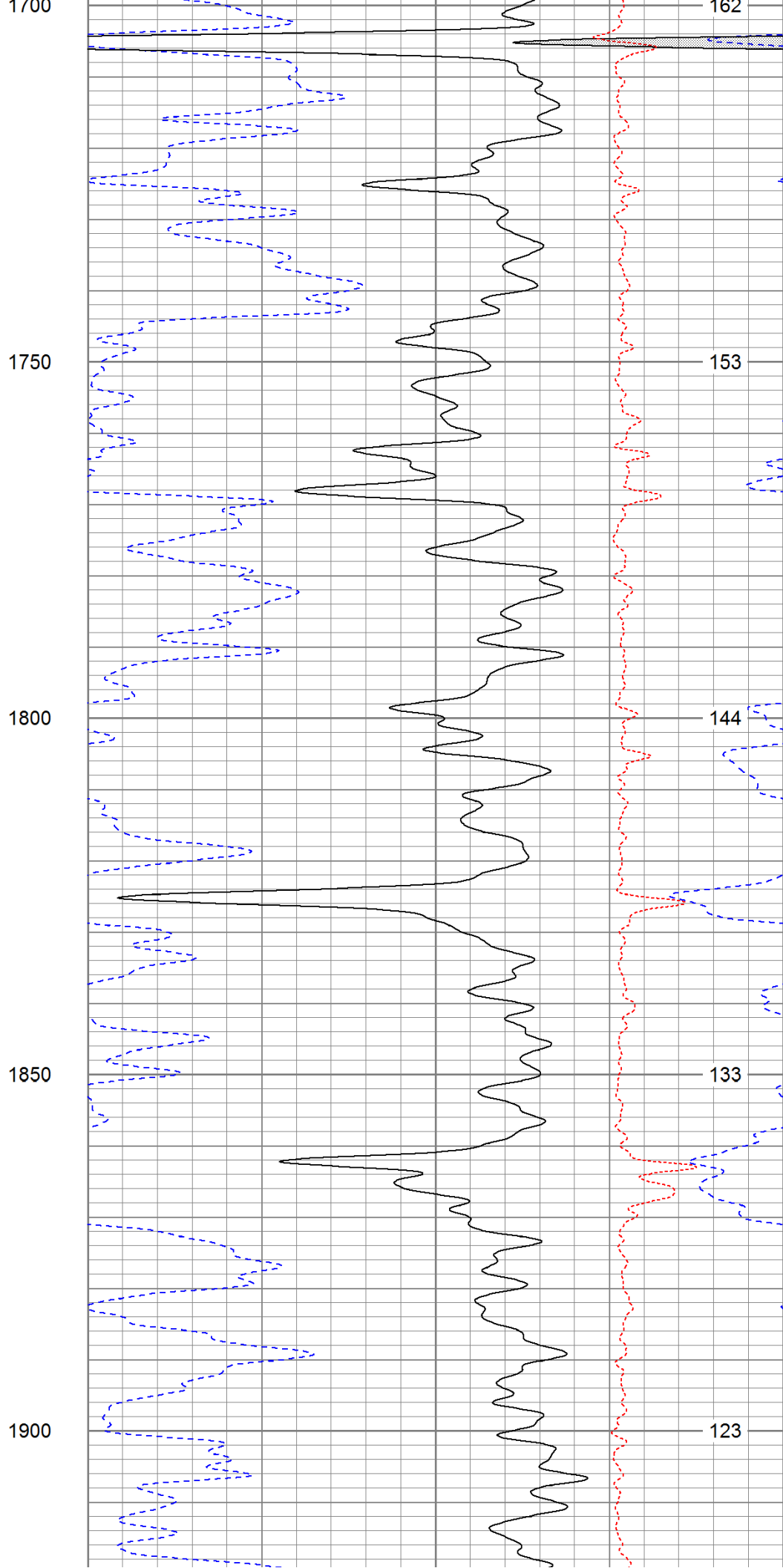
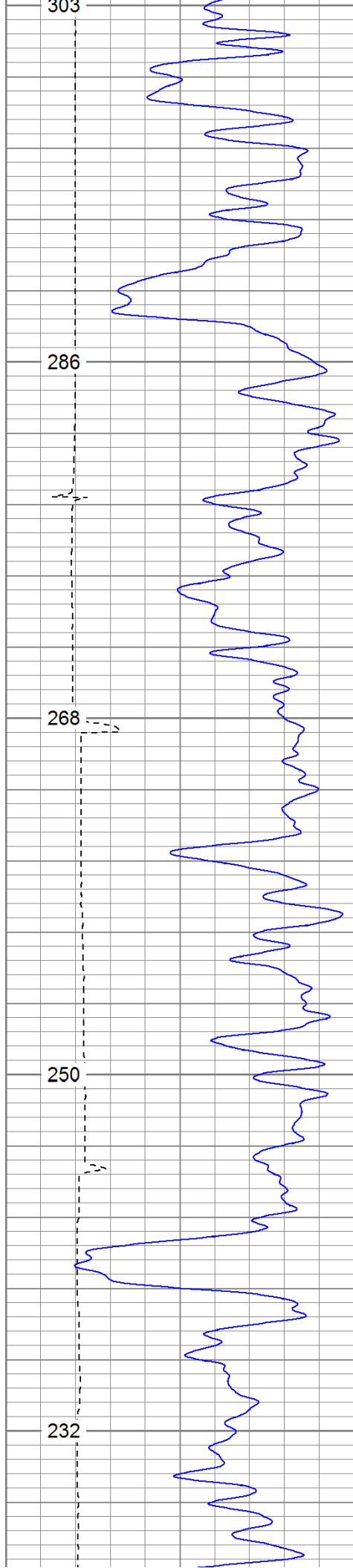


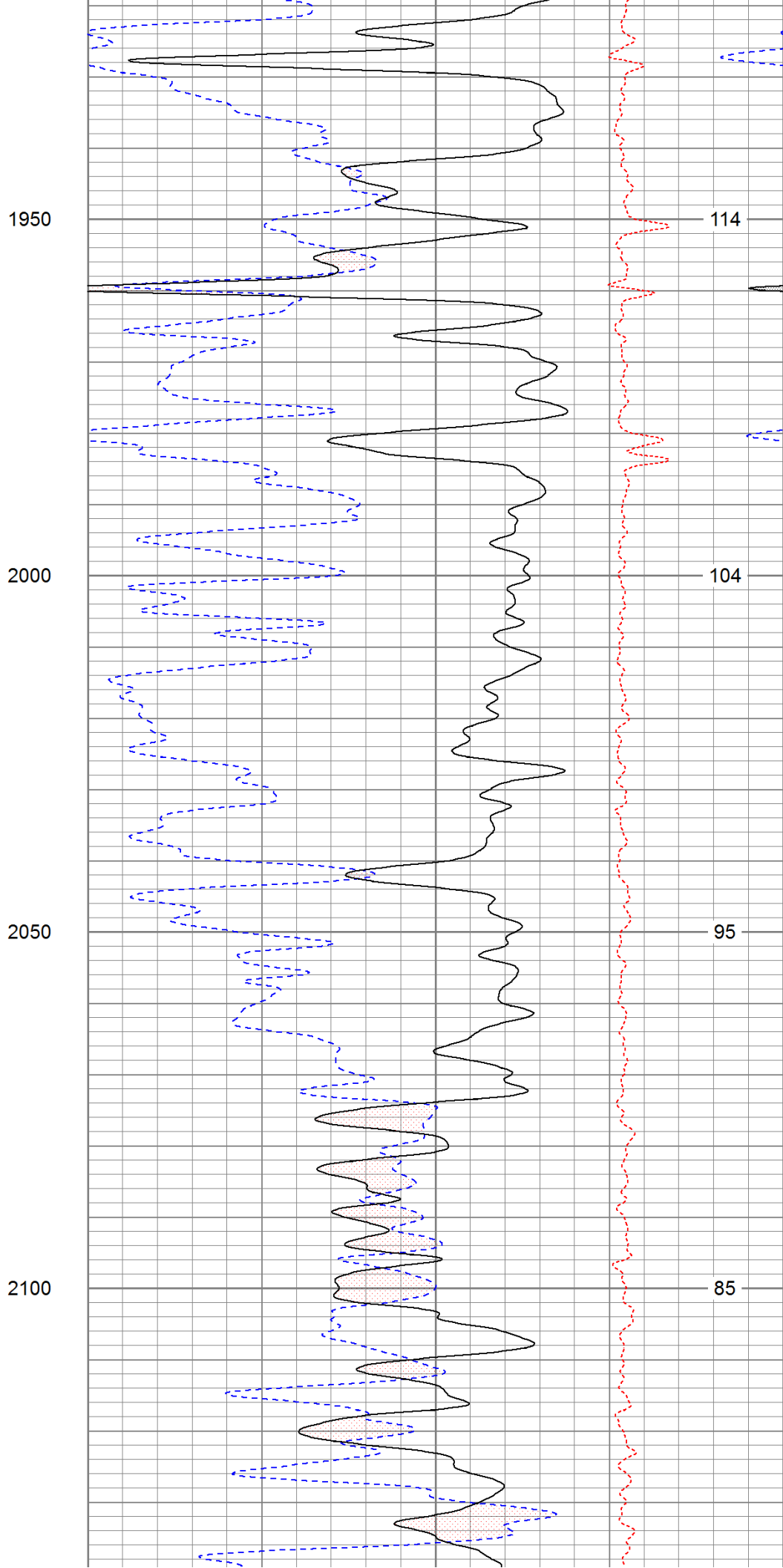
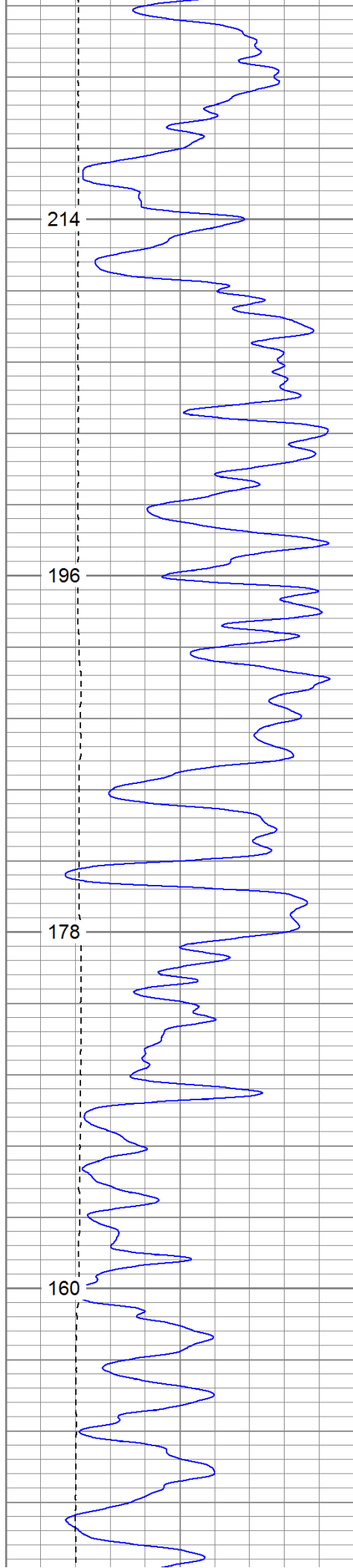


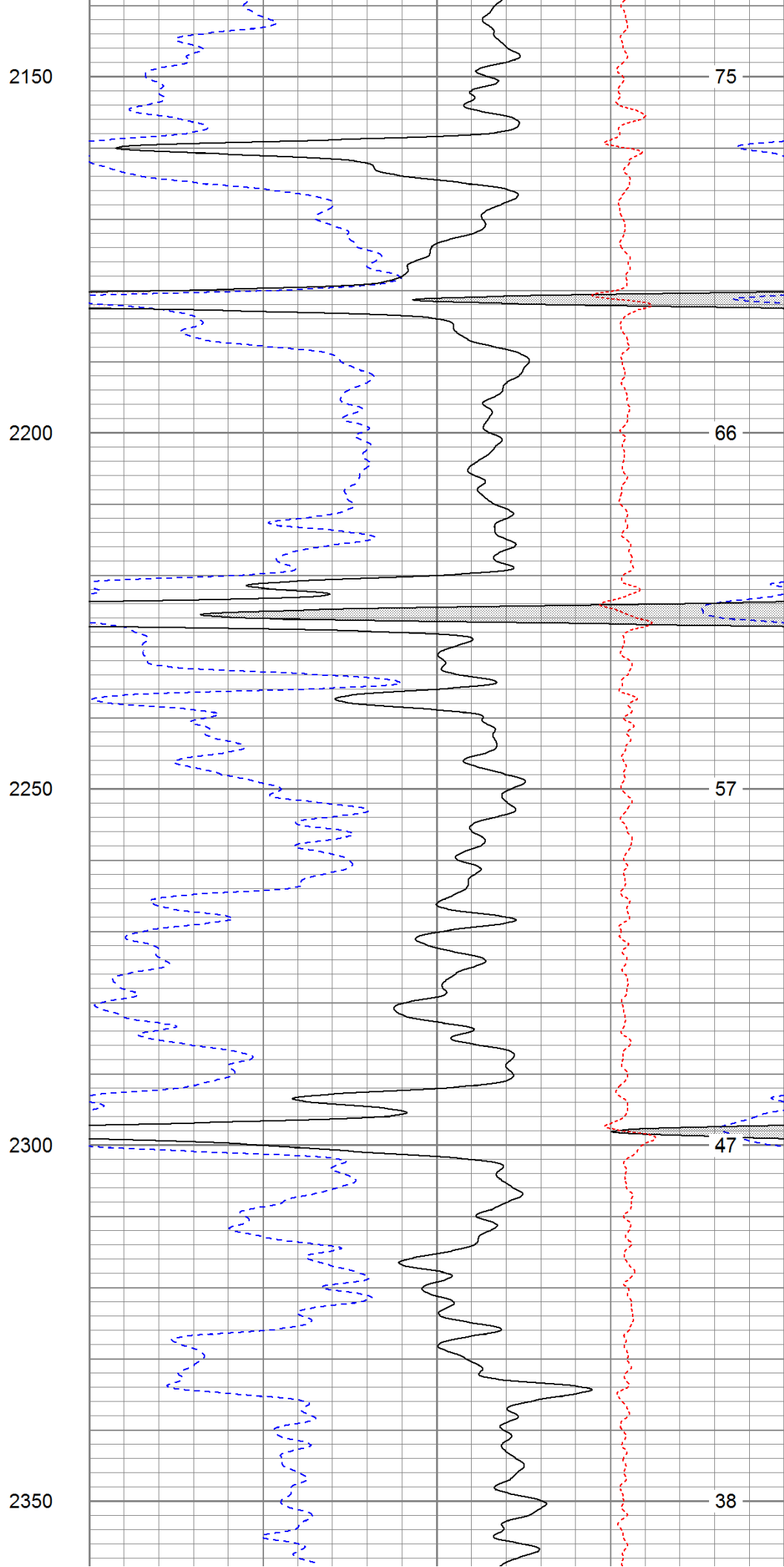
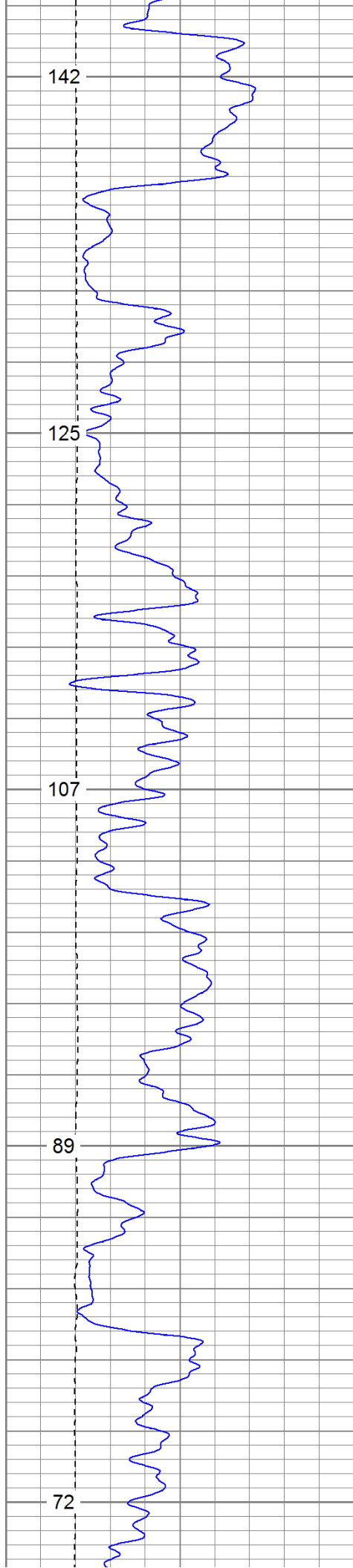


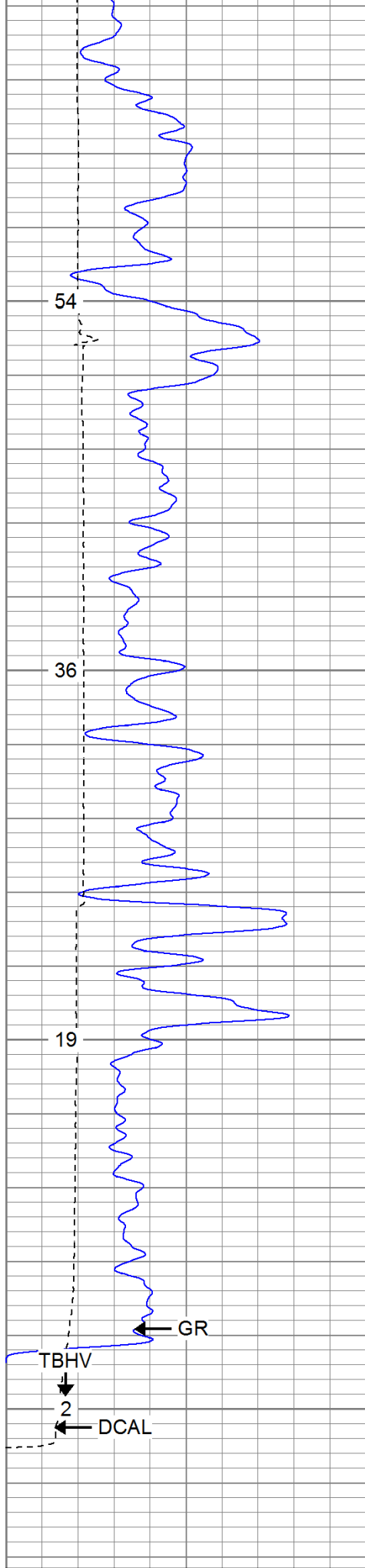




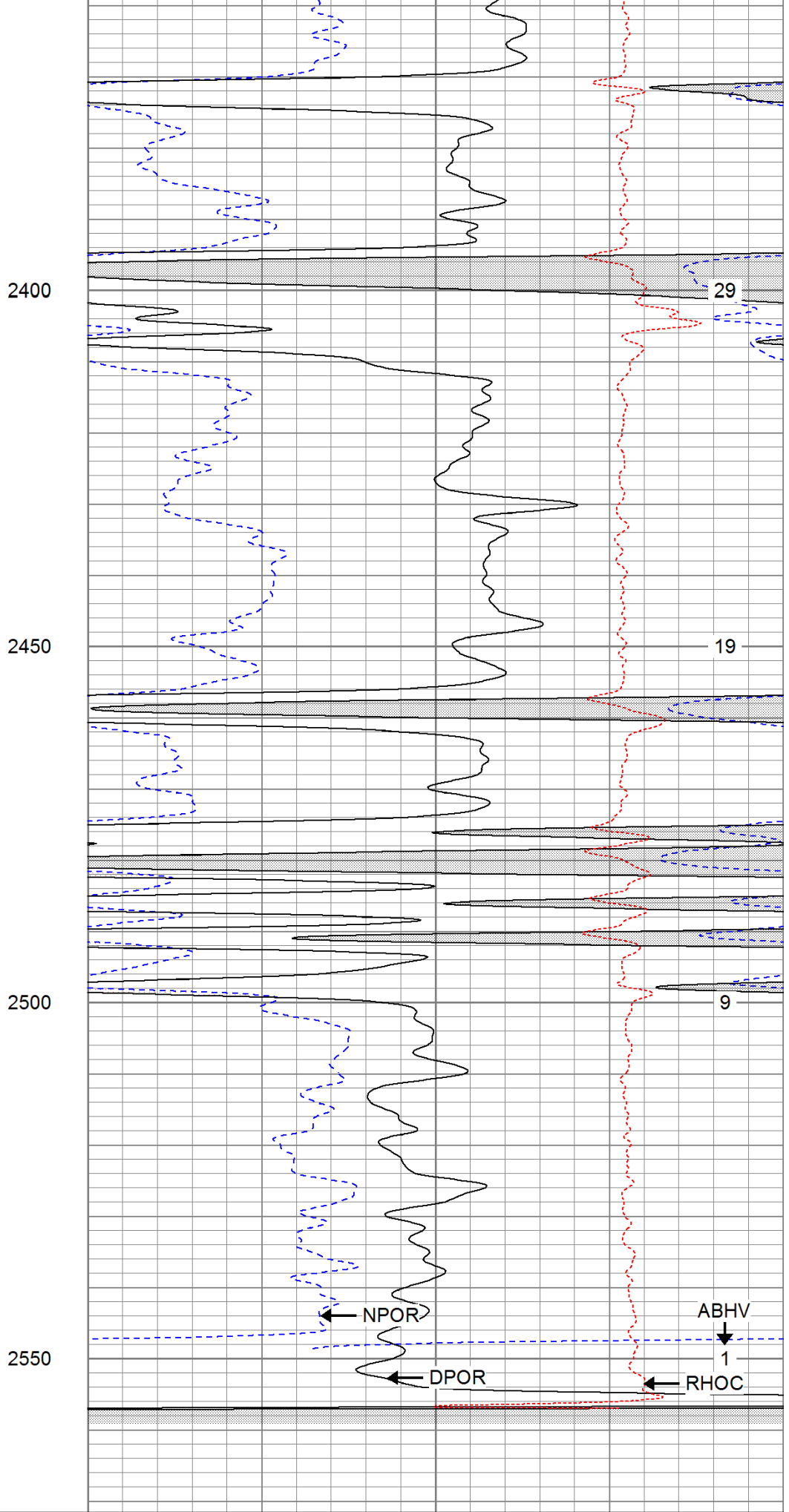








0	GR (GAPI)	200
6	DCAL (in)	16



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

TBHV (ft3)

-0.5

RHOC (g/cc)

0.5

ABHV (ft3)

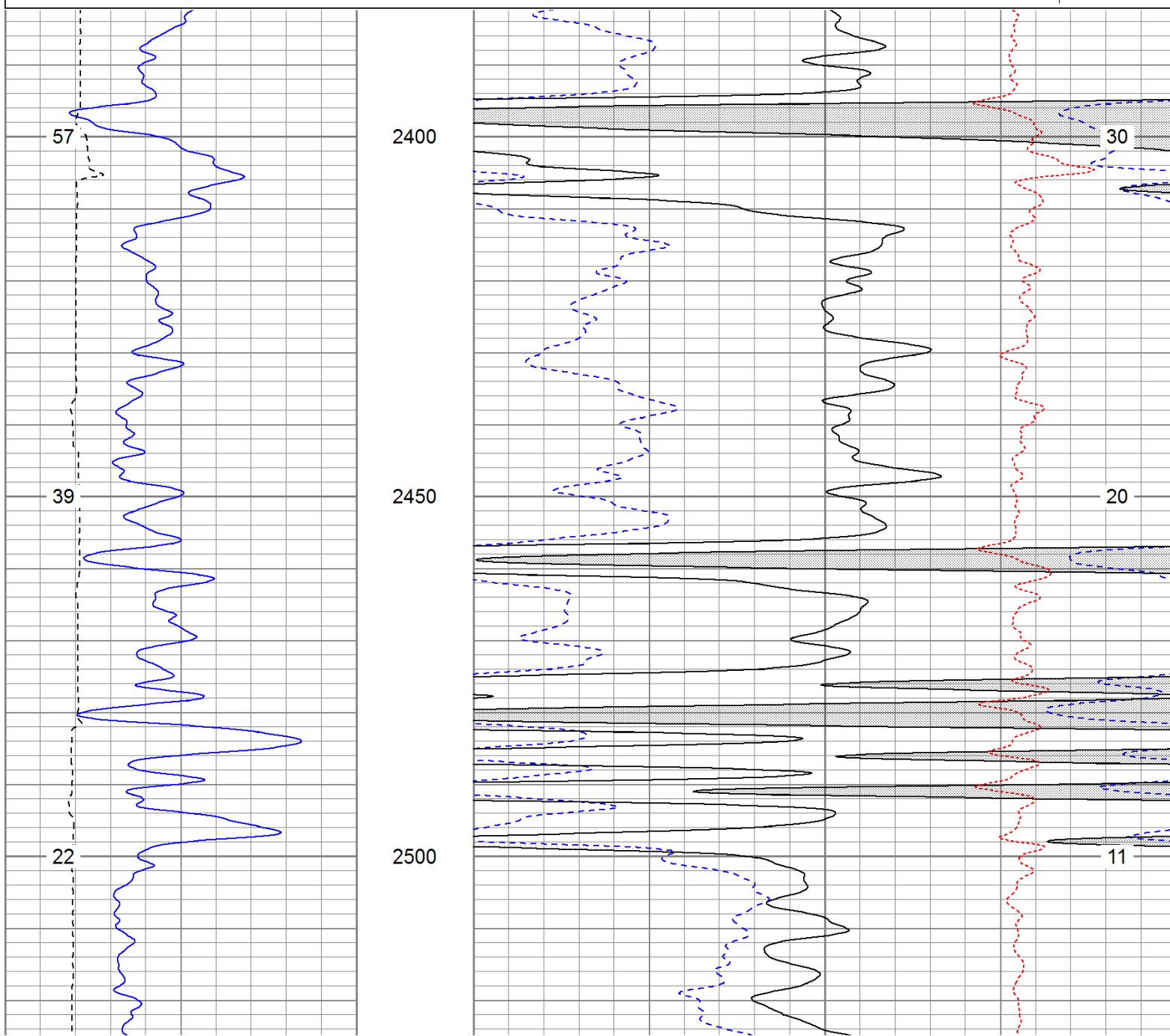


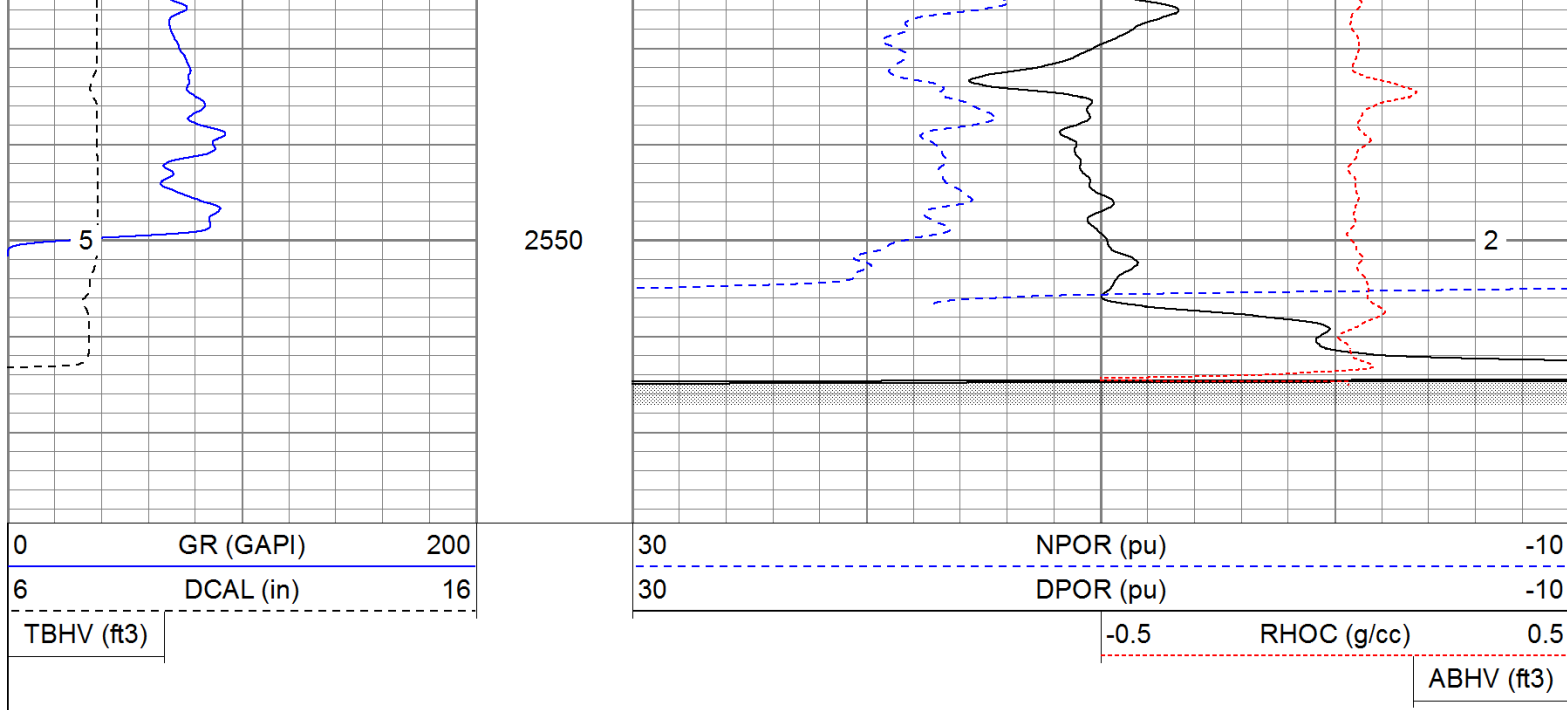
Repeat Pass

Database File: larissa.db
 Dataset Pathname: pass1.1
 Presentation Format: cdnl
 Dataset Creation: Sun Oct 09 03:48:26 2011 by Calc Open-Cased 110302
 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
-0.5	RHOC (g/cc)	0.5
	ABHV (ft3)	

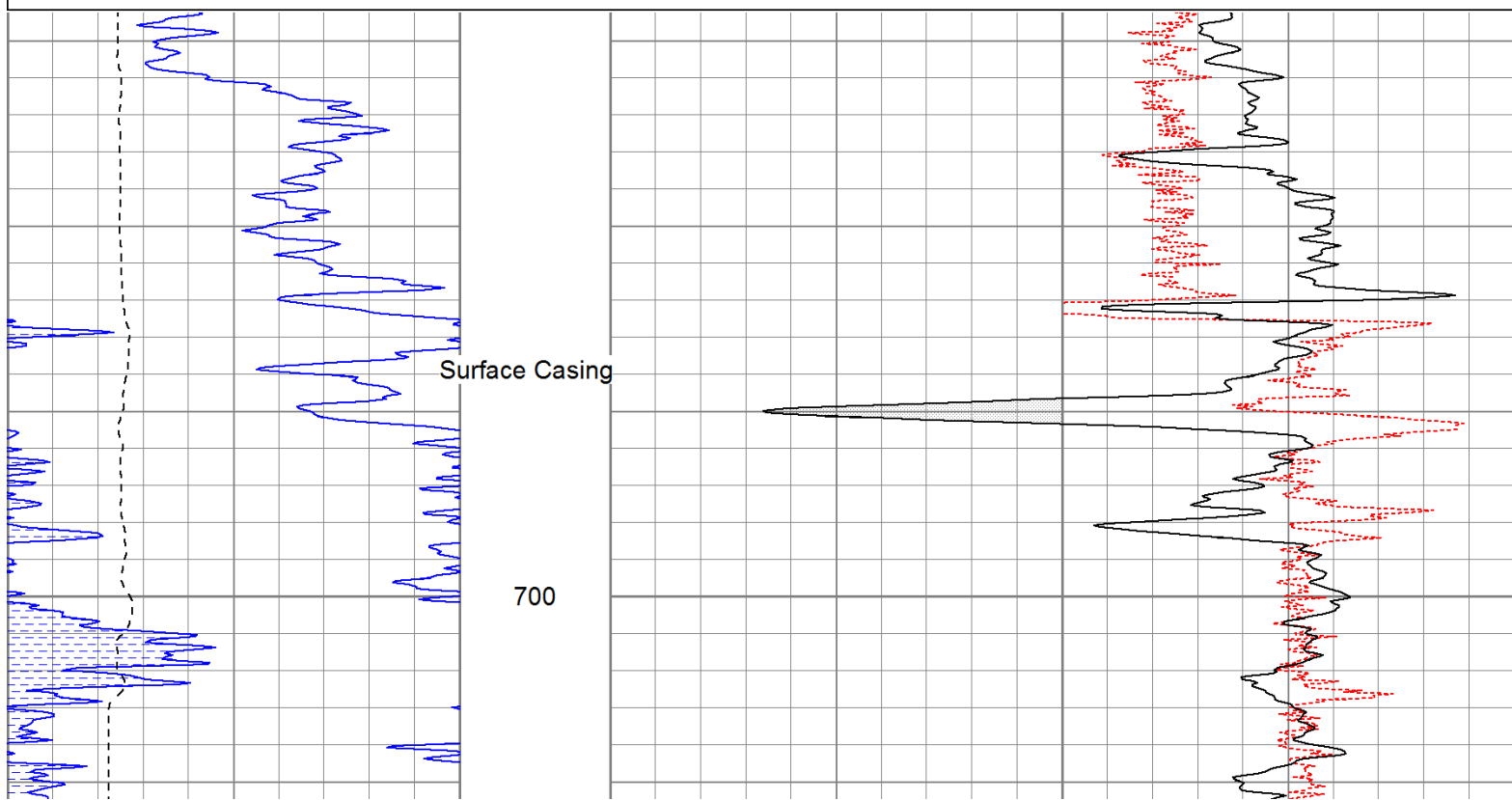


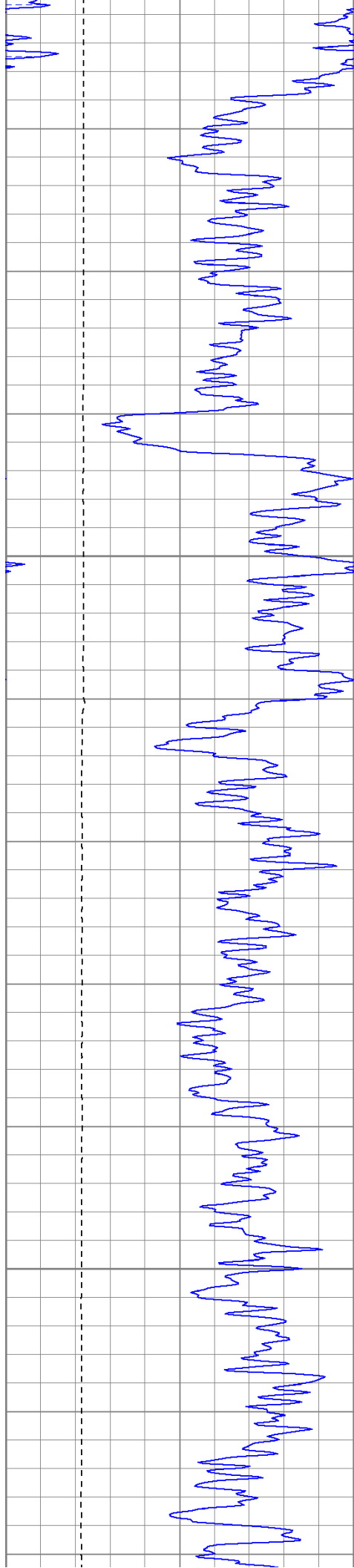


High Resolution Pass

Database File: larissa.db
 Dataset Pathname: pass2.2
 Presentation Format: cdlhr
 Dataset Creation: Sun Oct 09 03:50:37 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:120

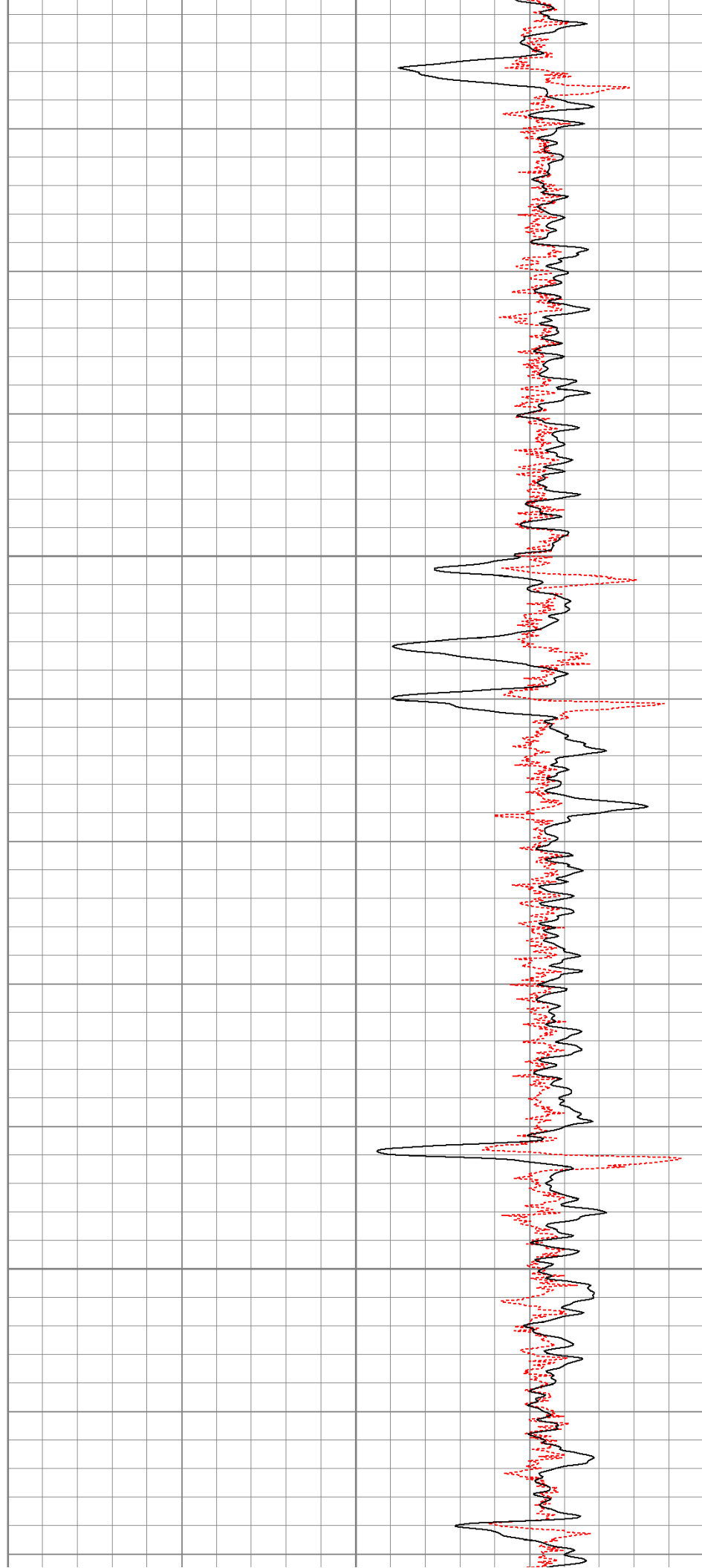
0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16		-0.5 RHOC (g/cc) 0.5	

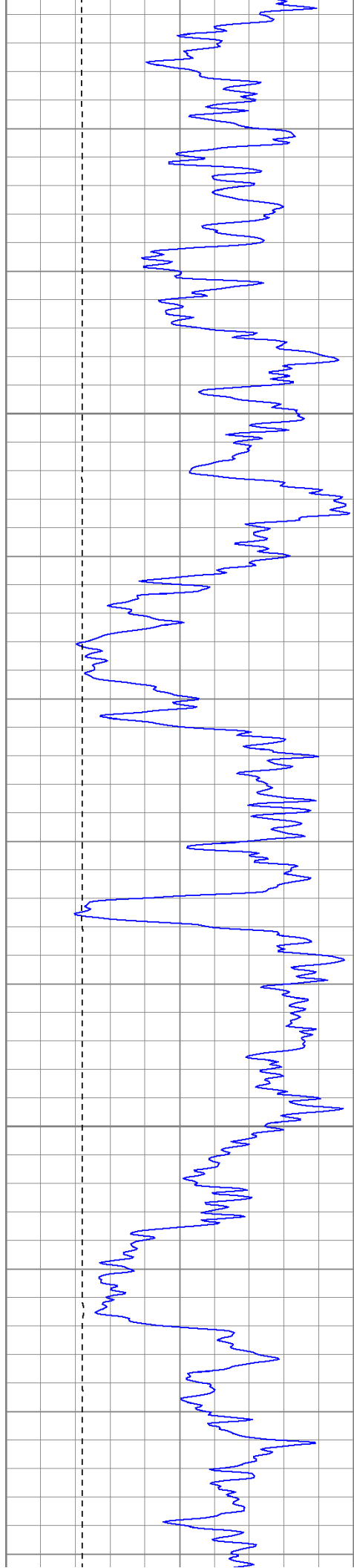




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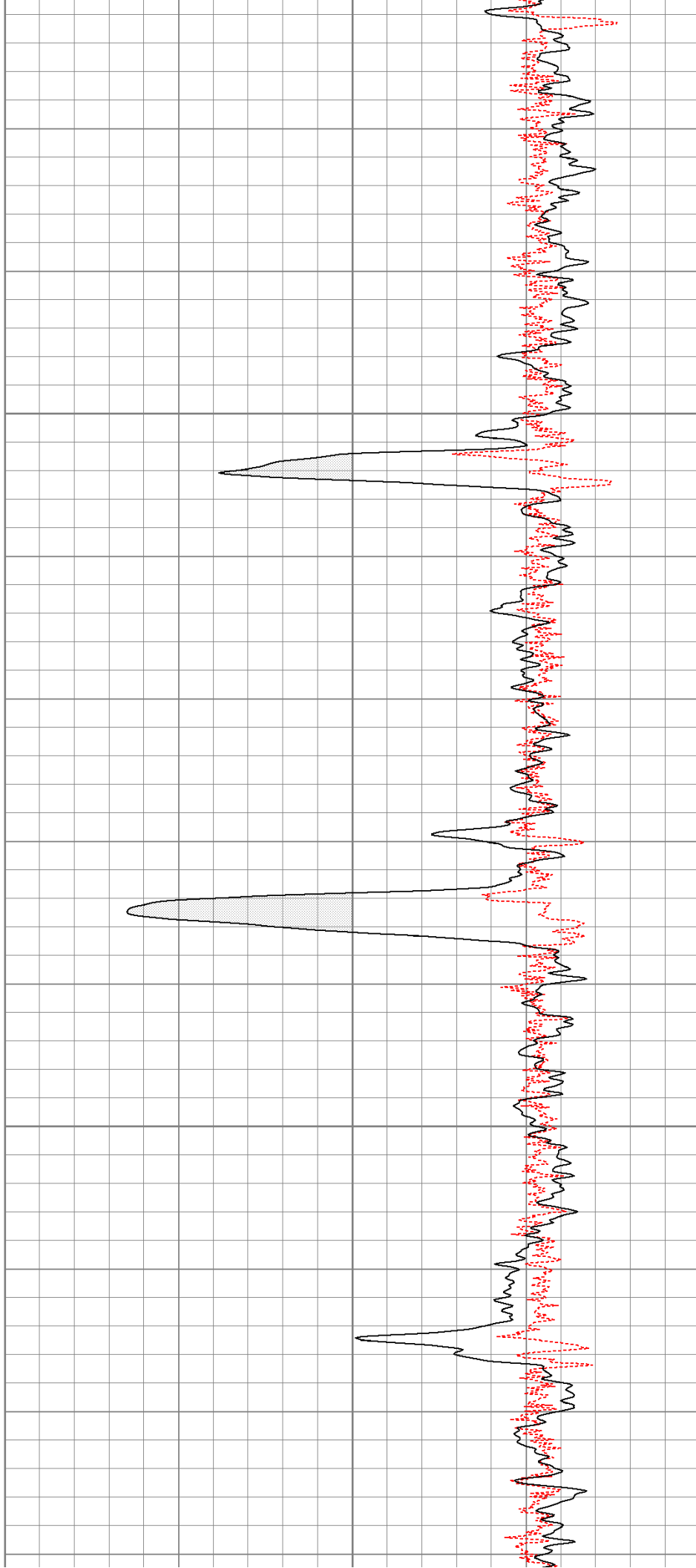
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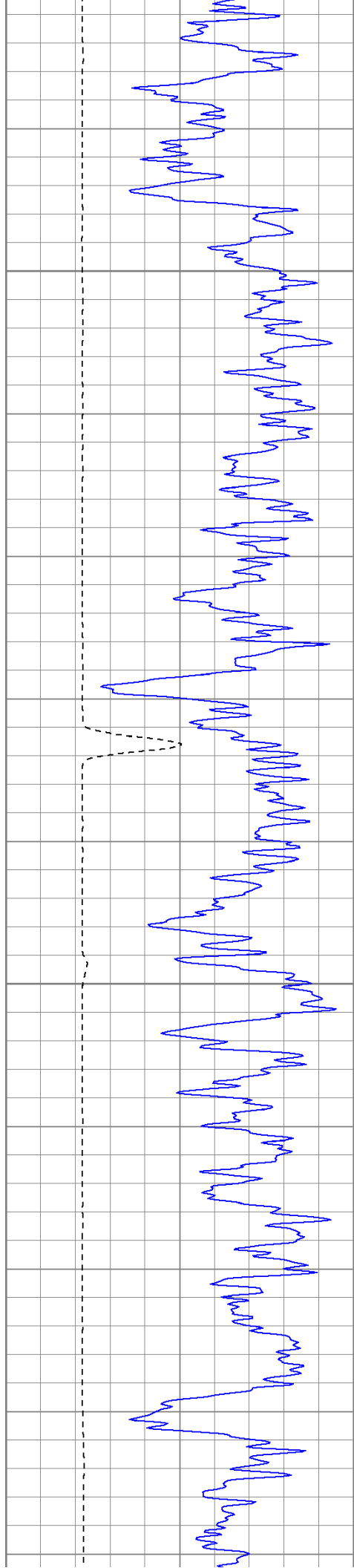




850

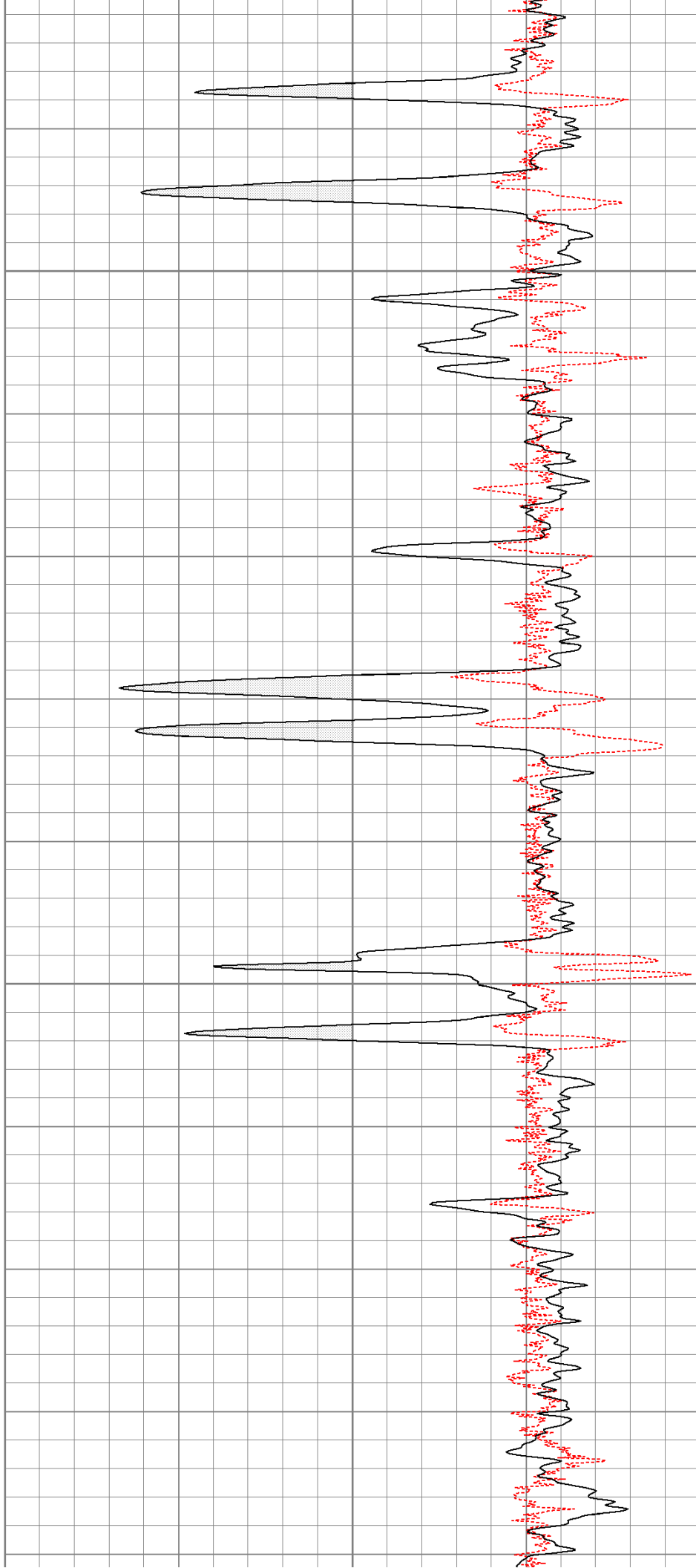
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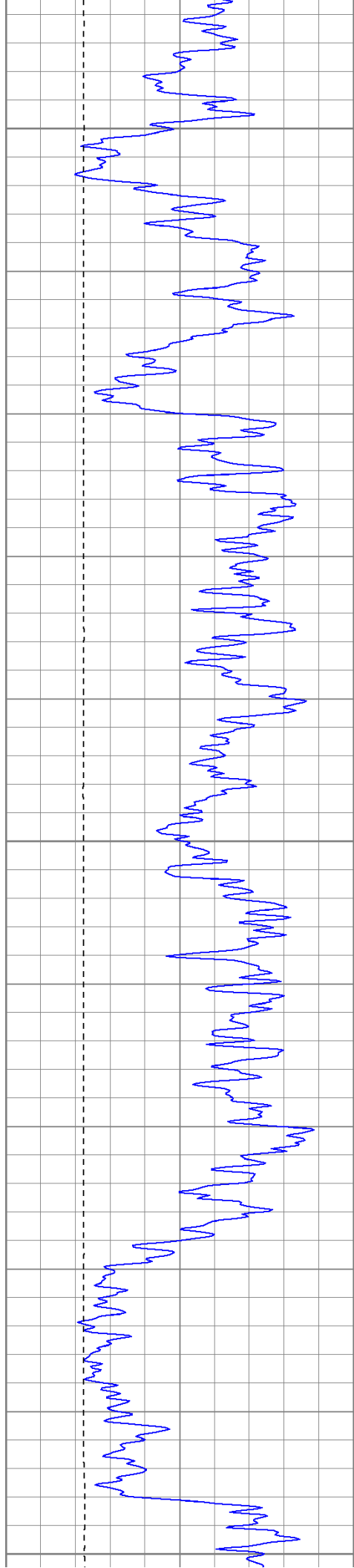




950

1000

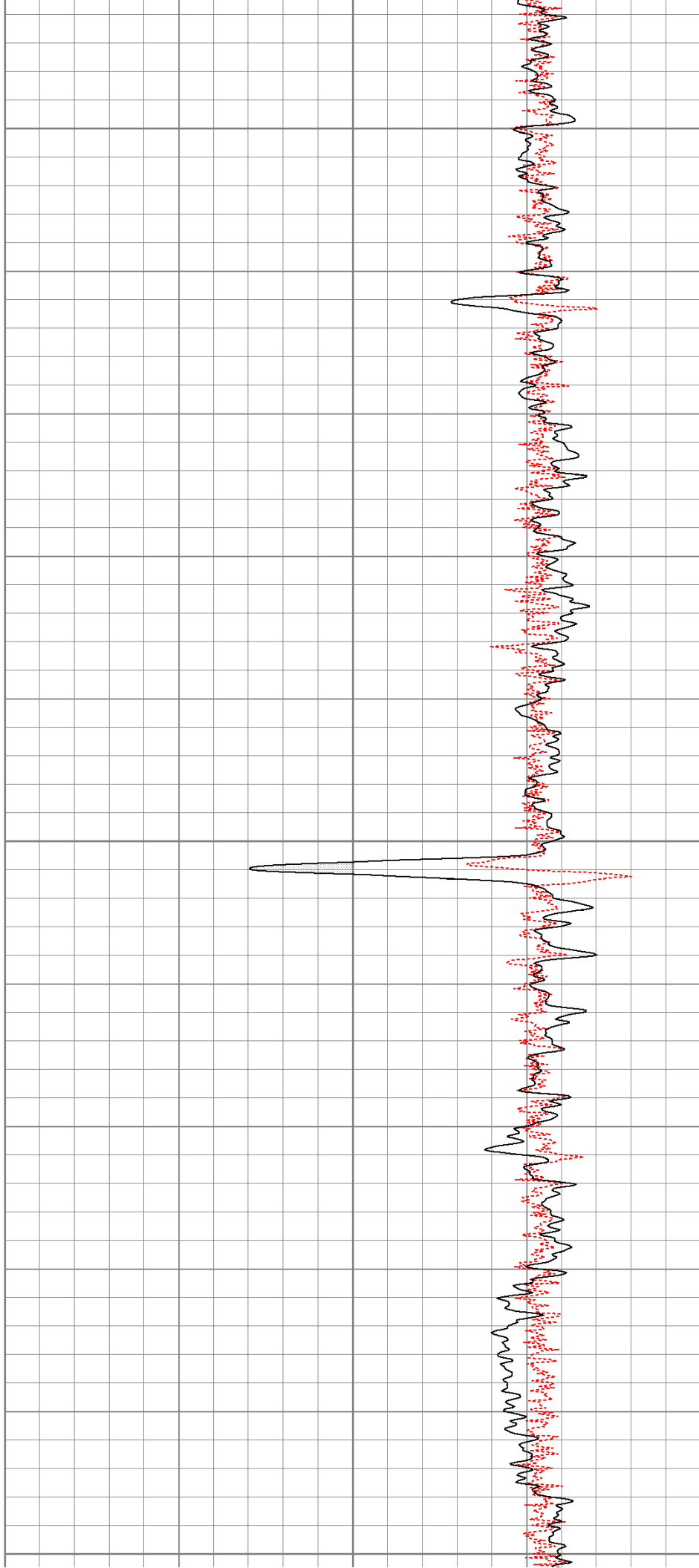


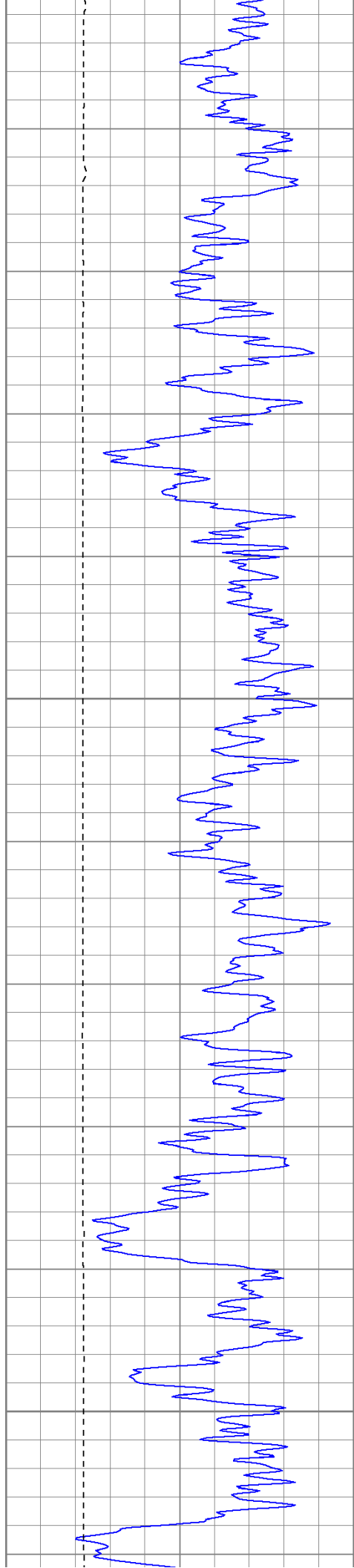


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1100

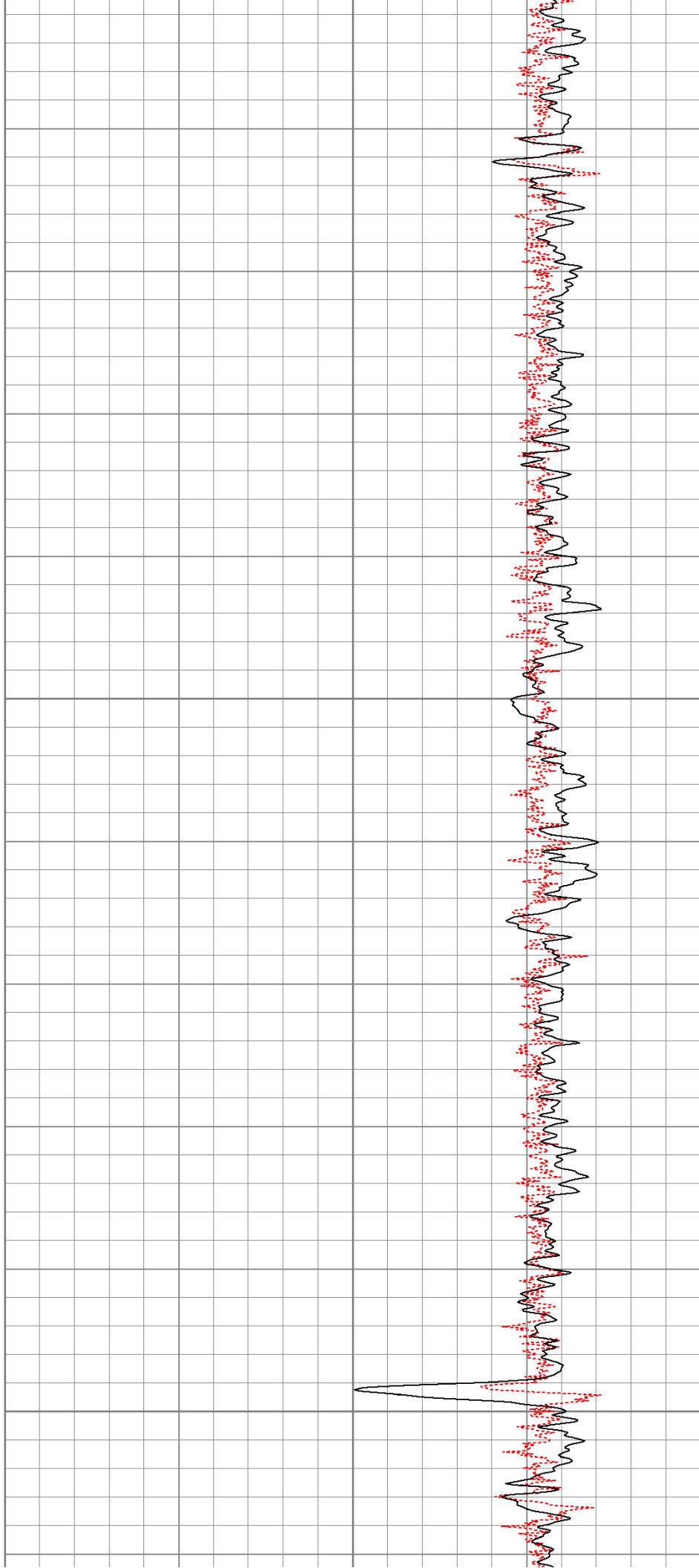
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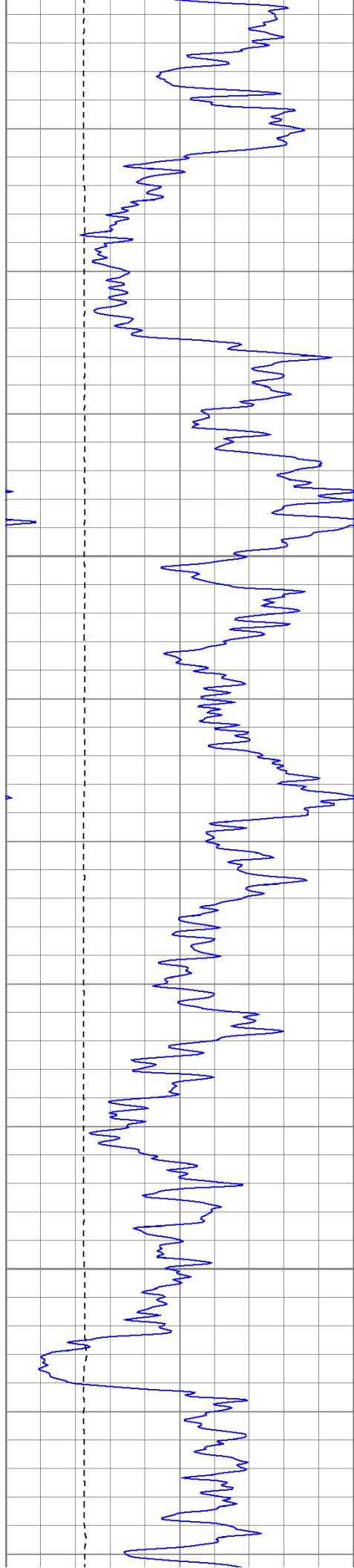




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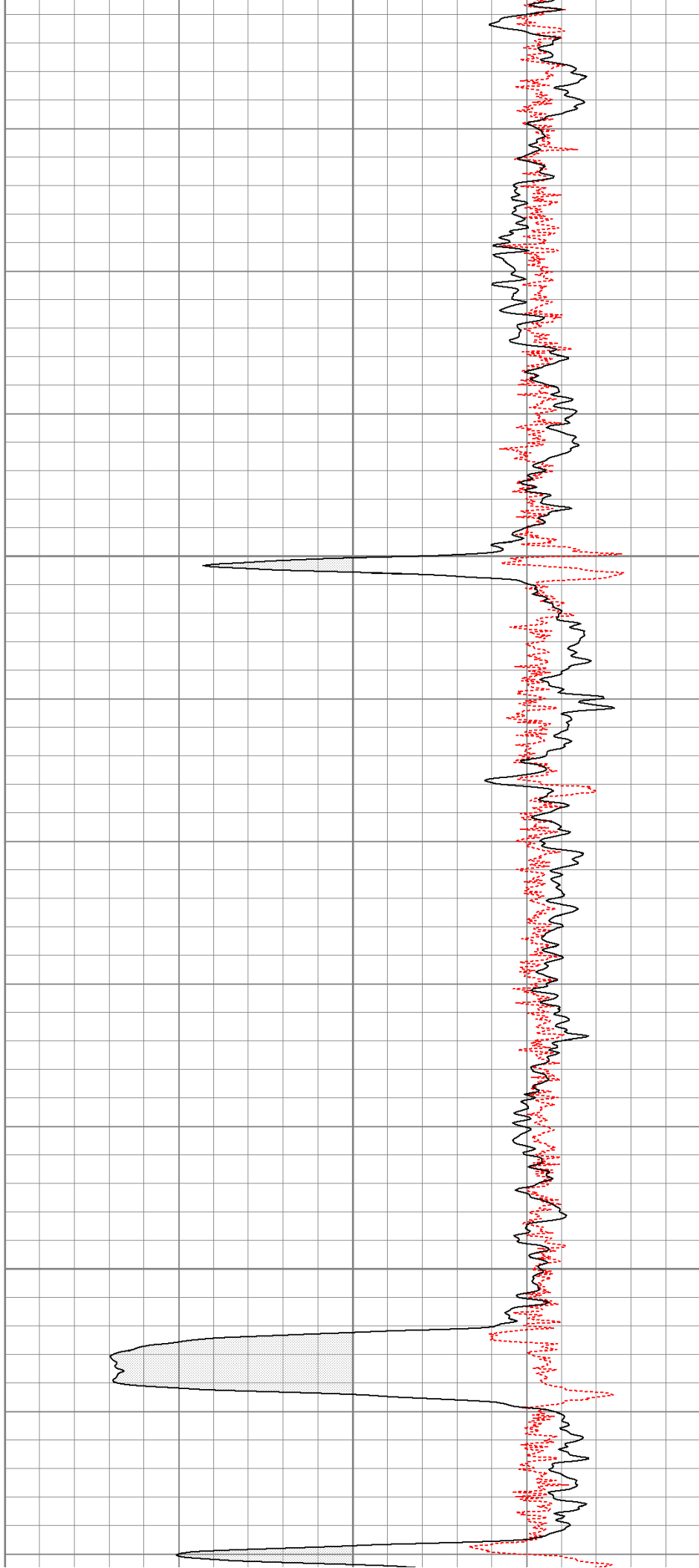
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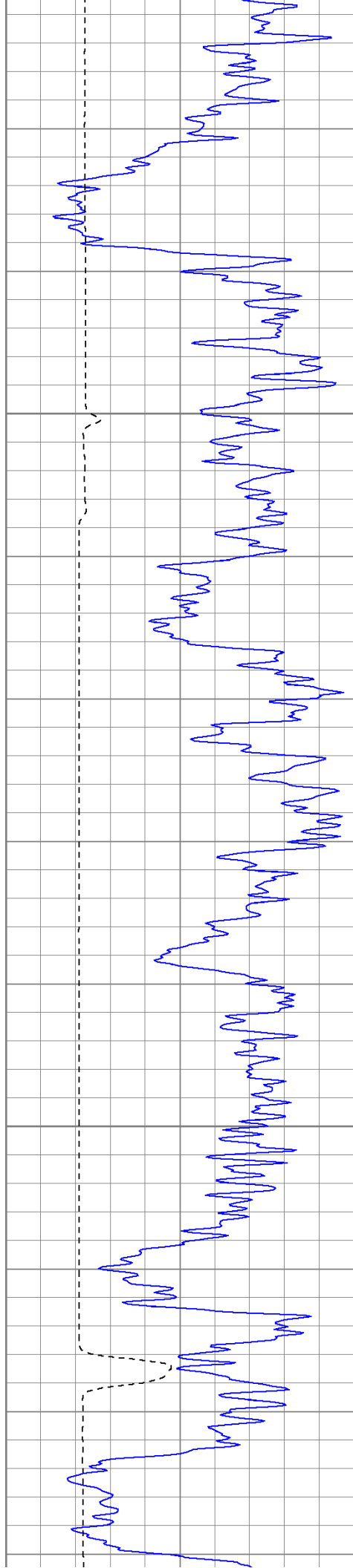




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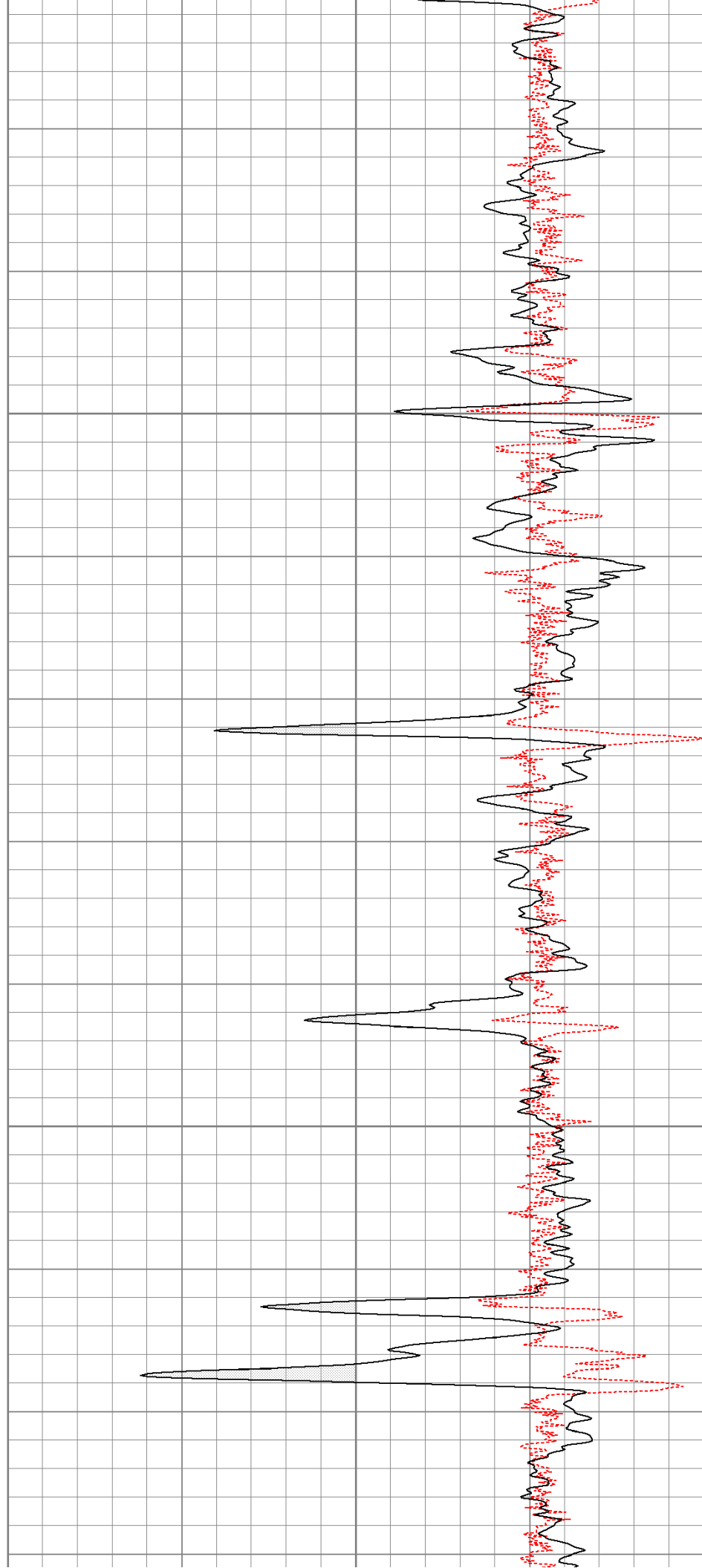
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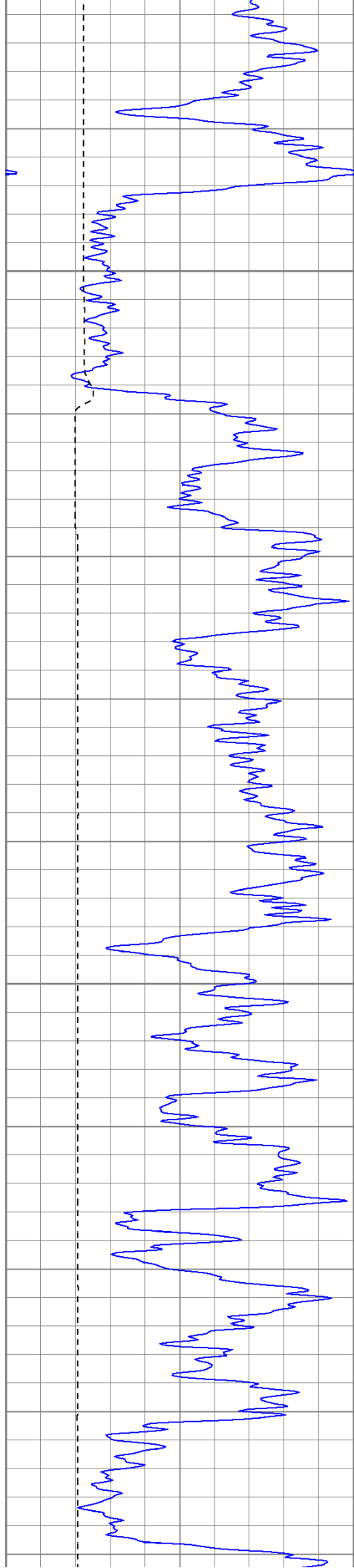




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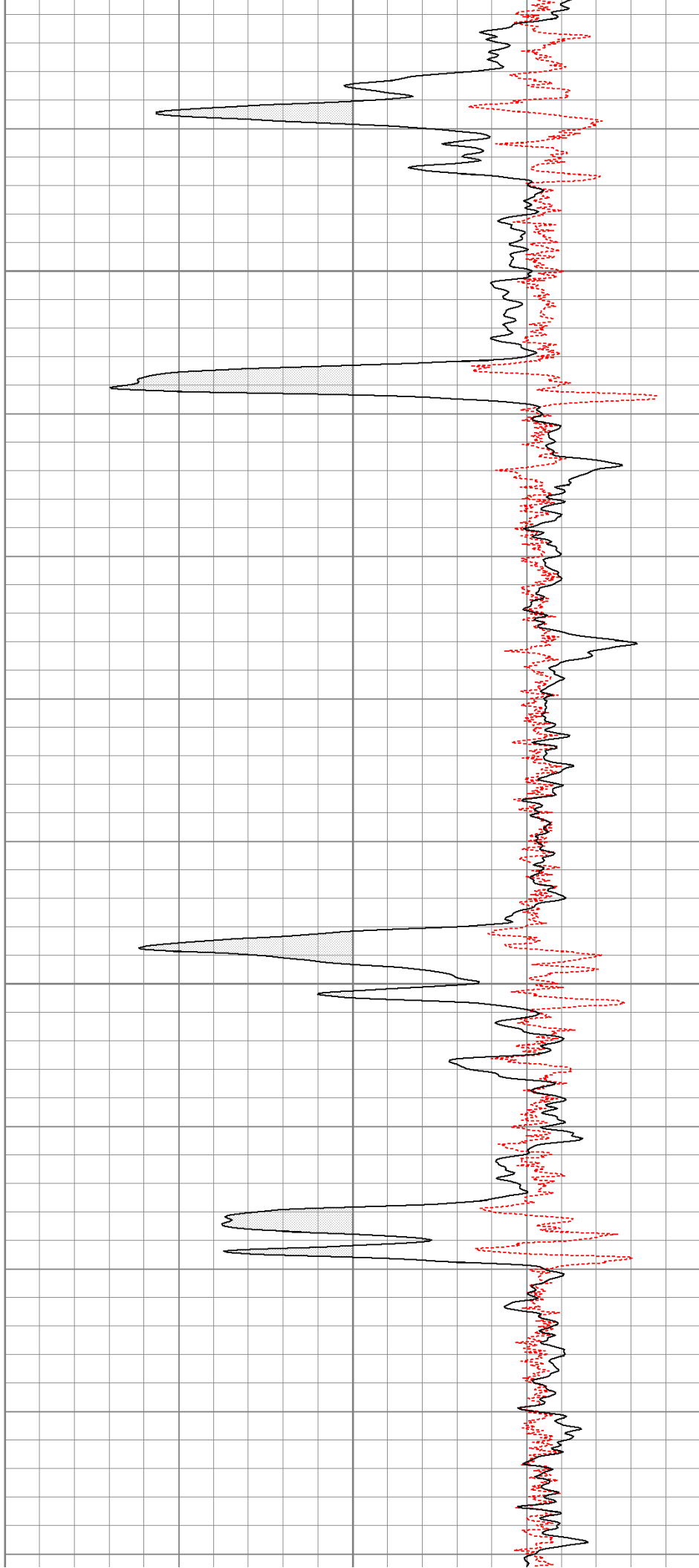
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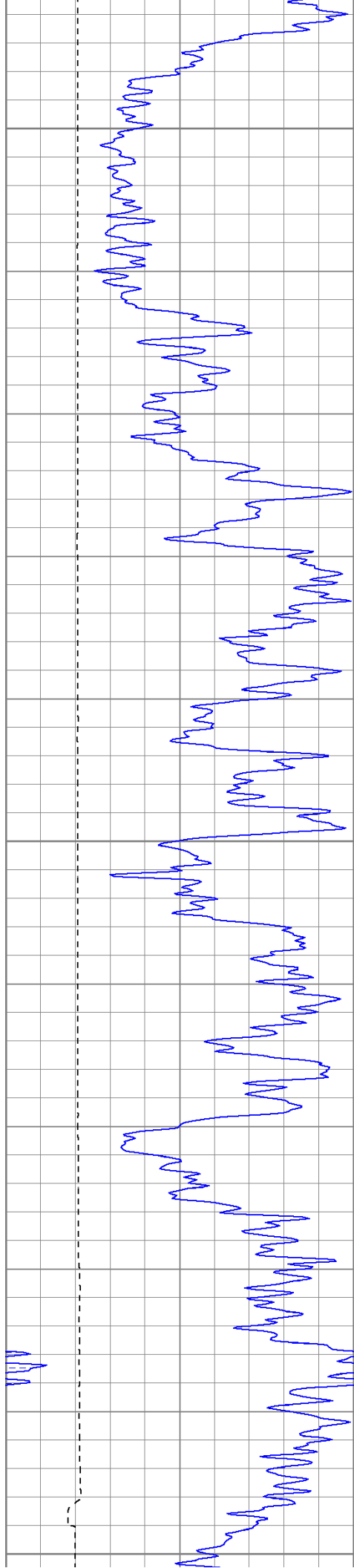




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1550

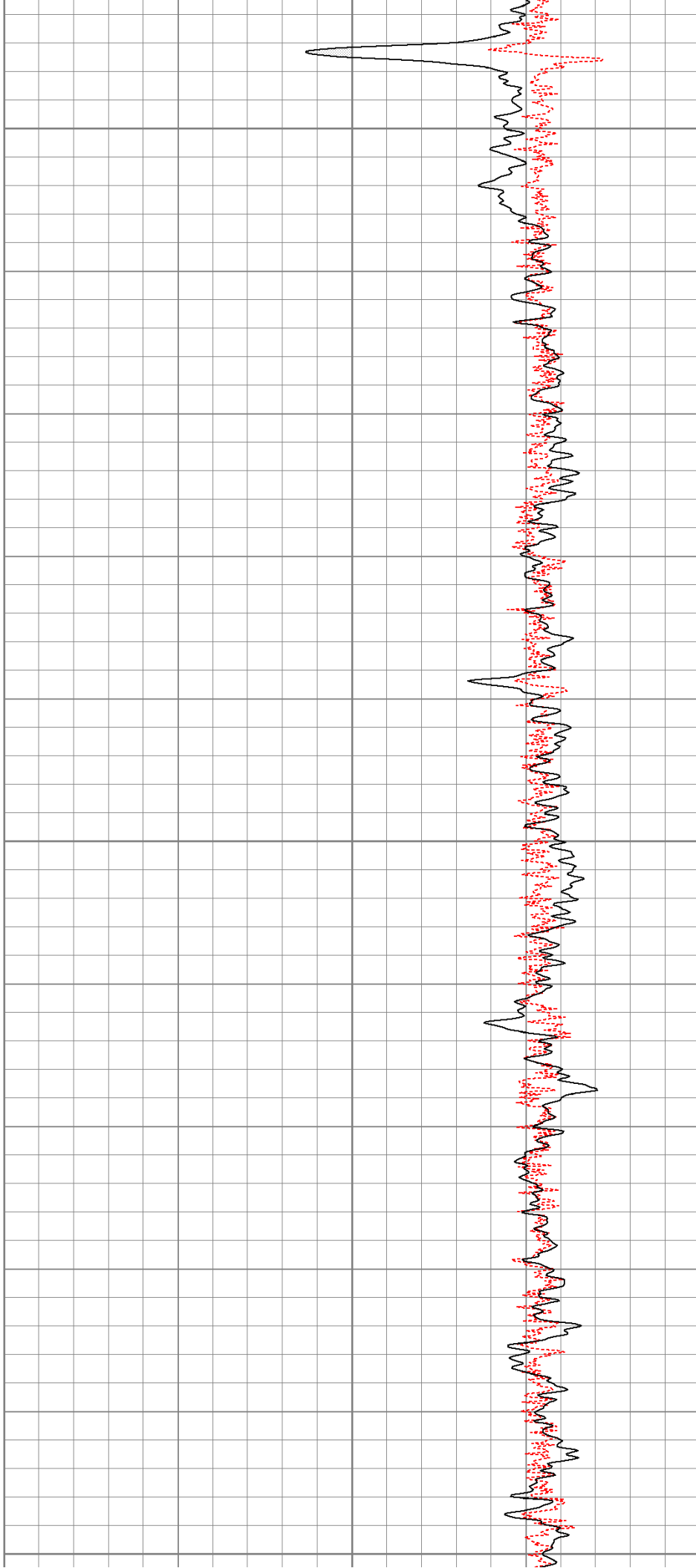


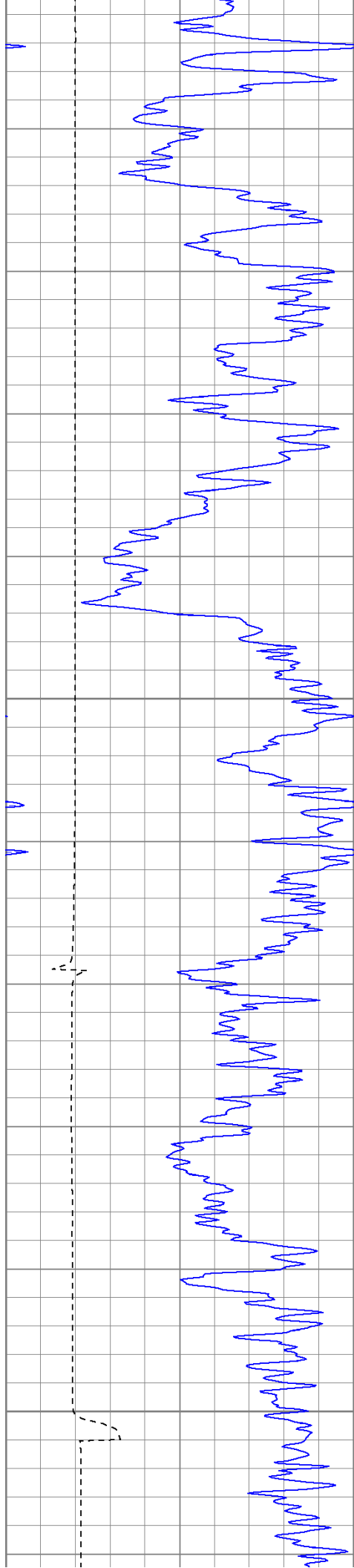


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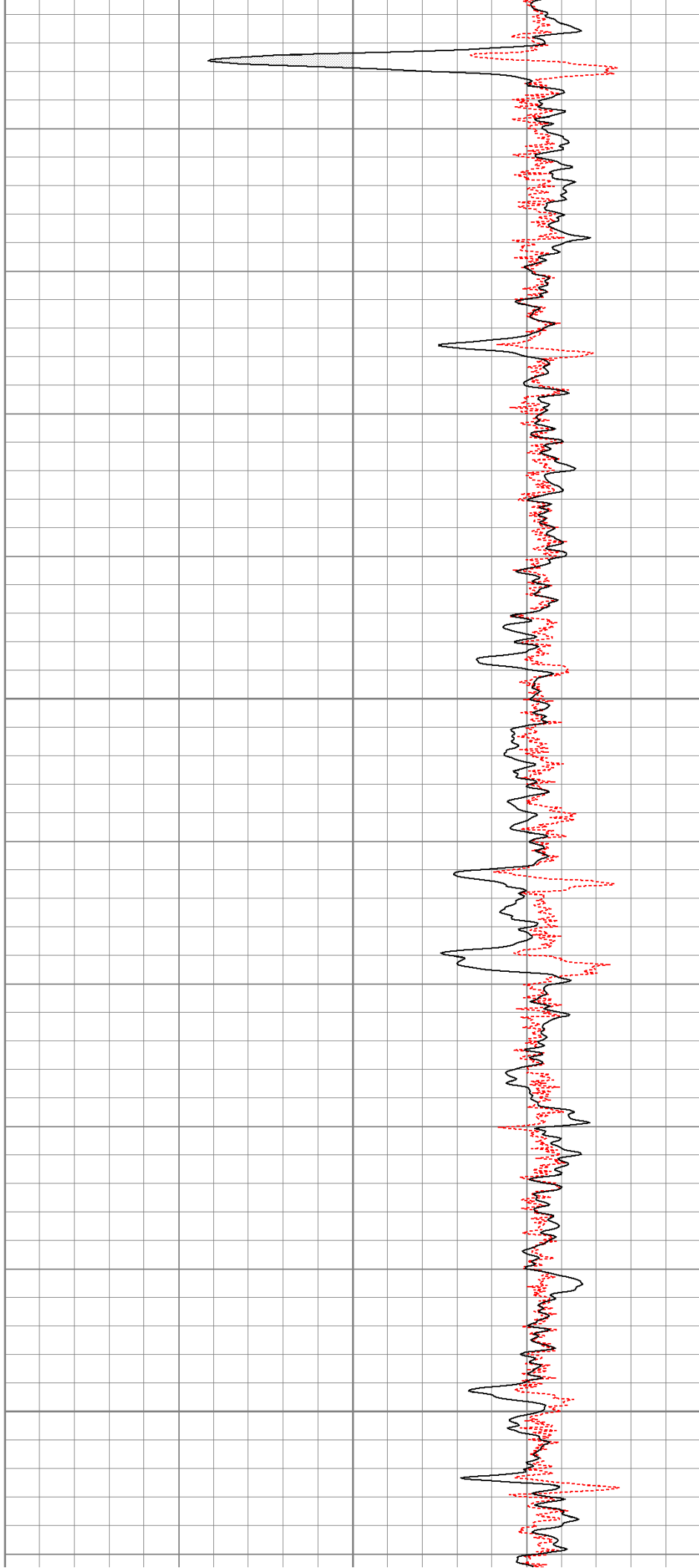
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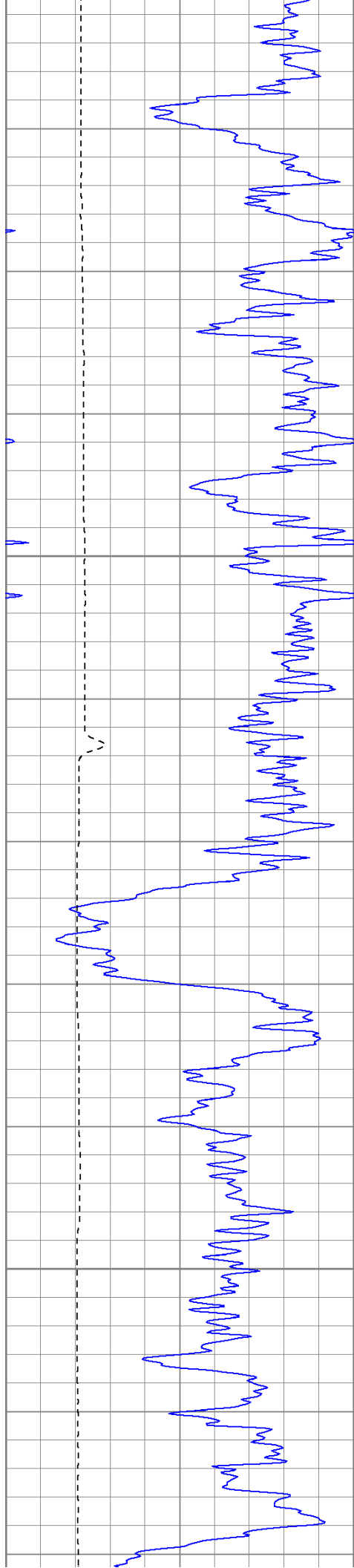




1750

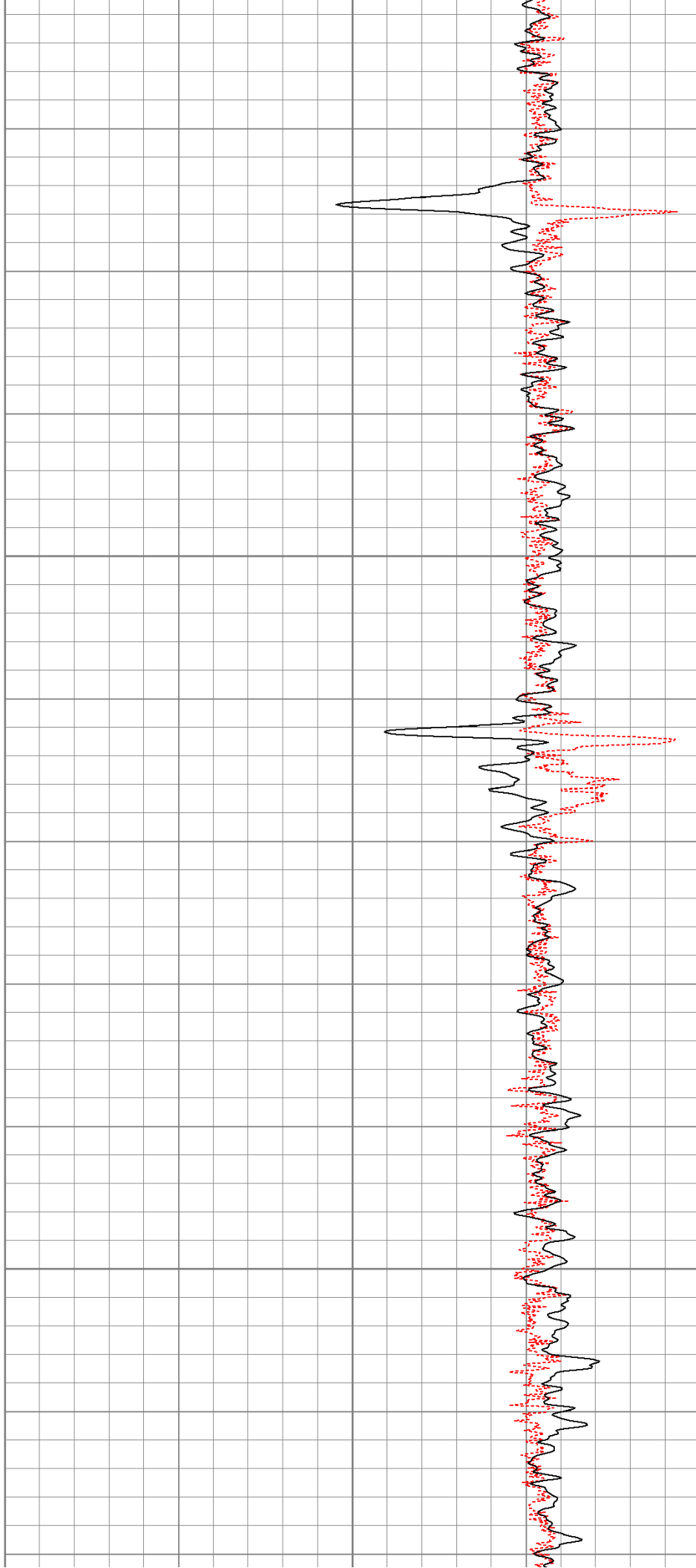
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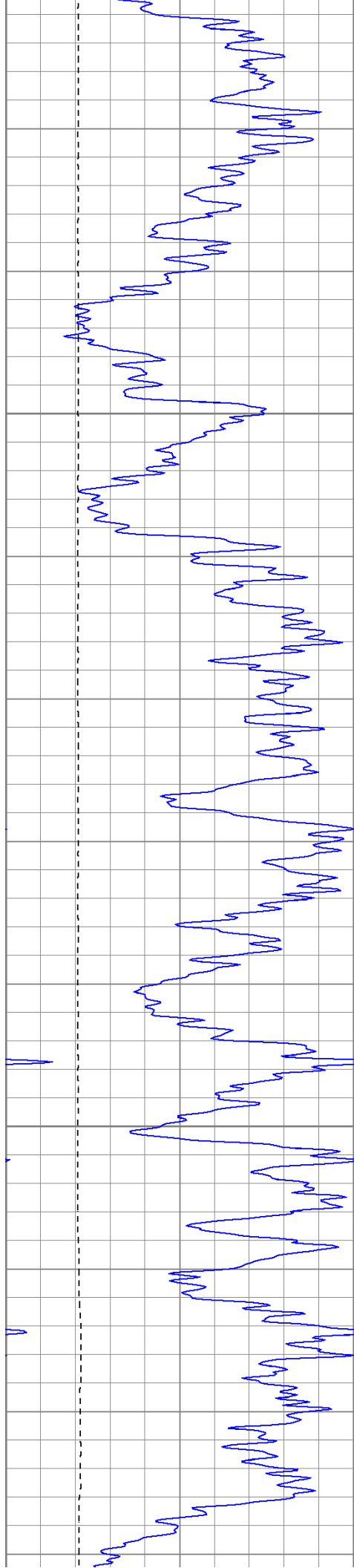




1850

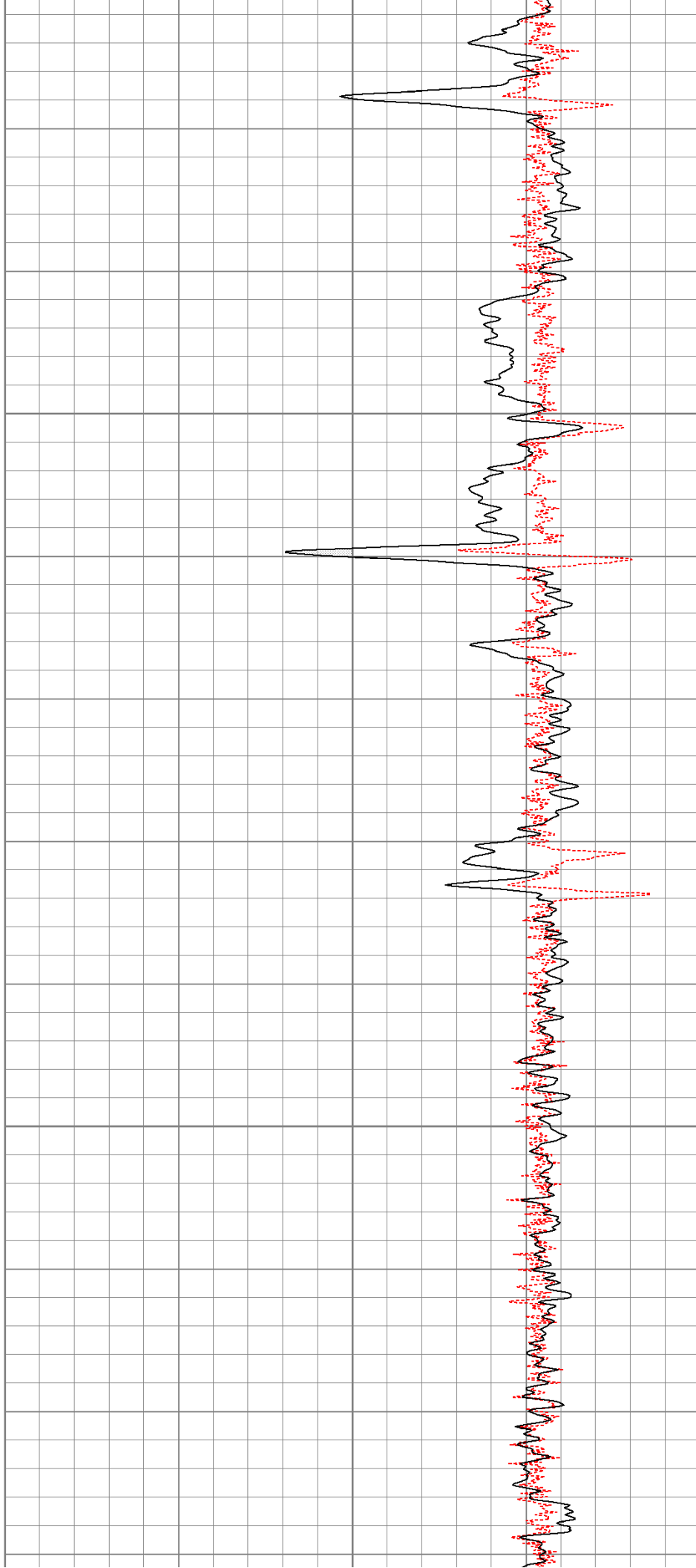
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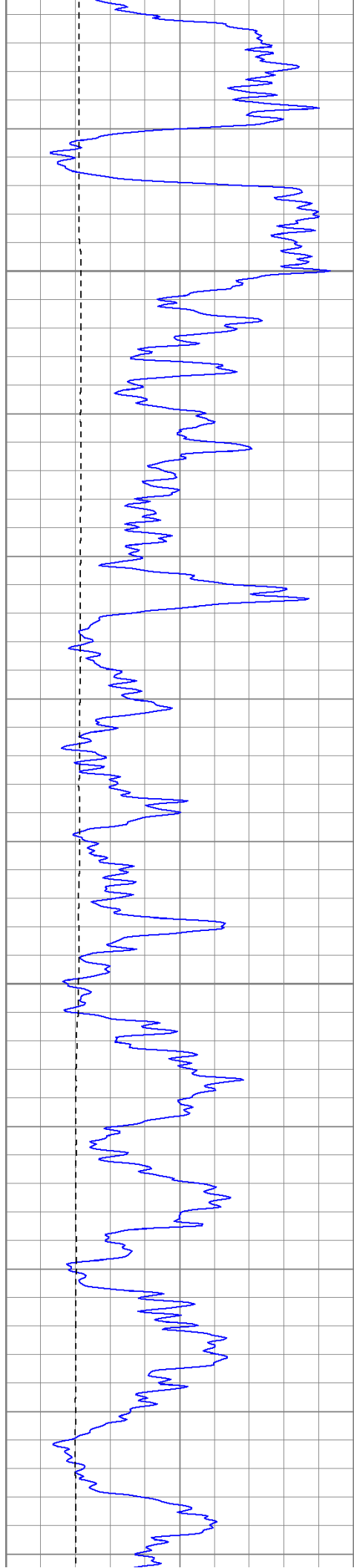




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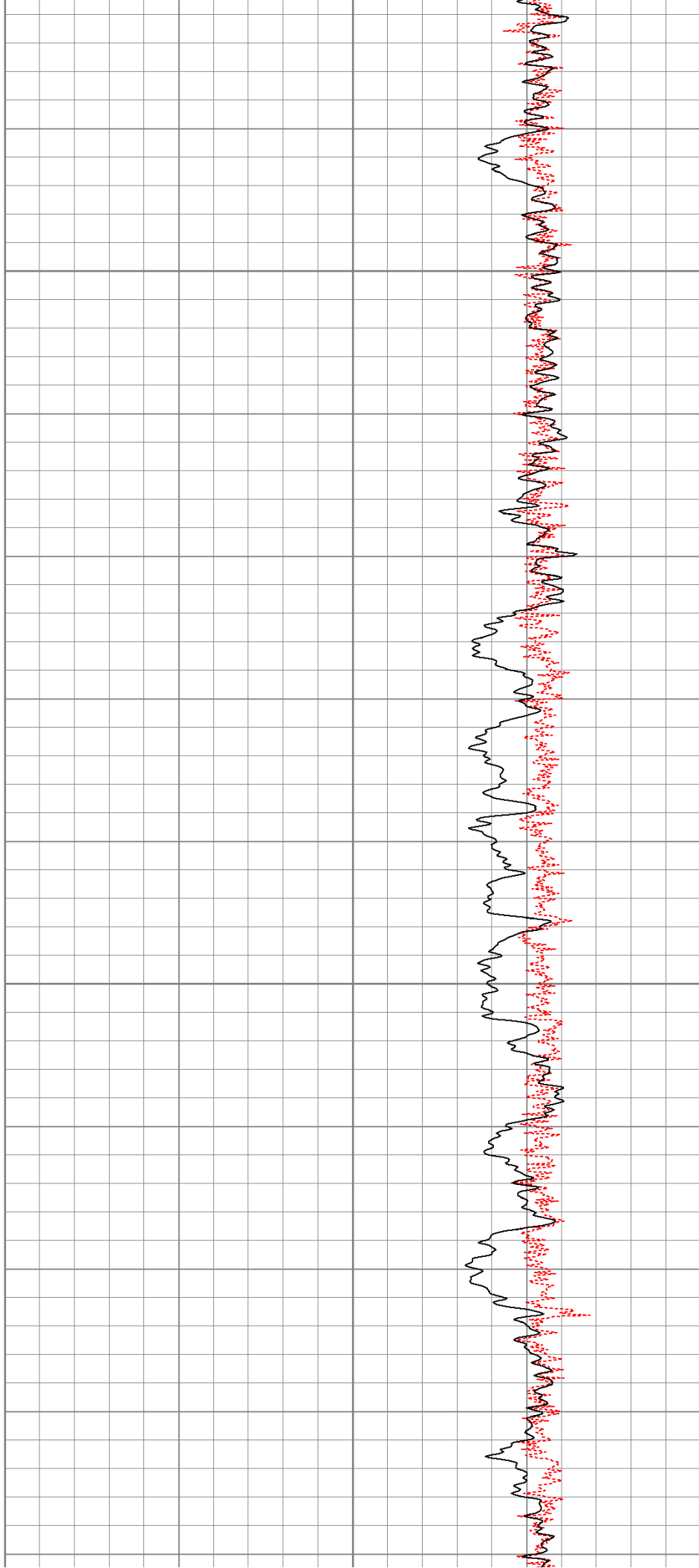
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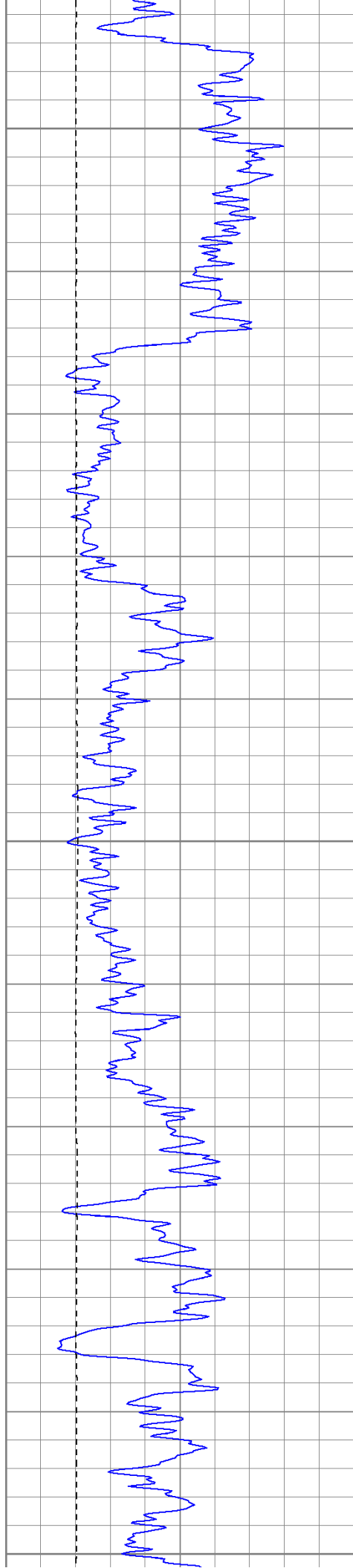




2050

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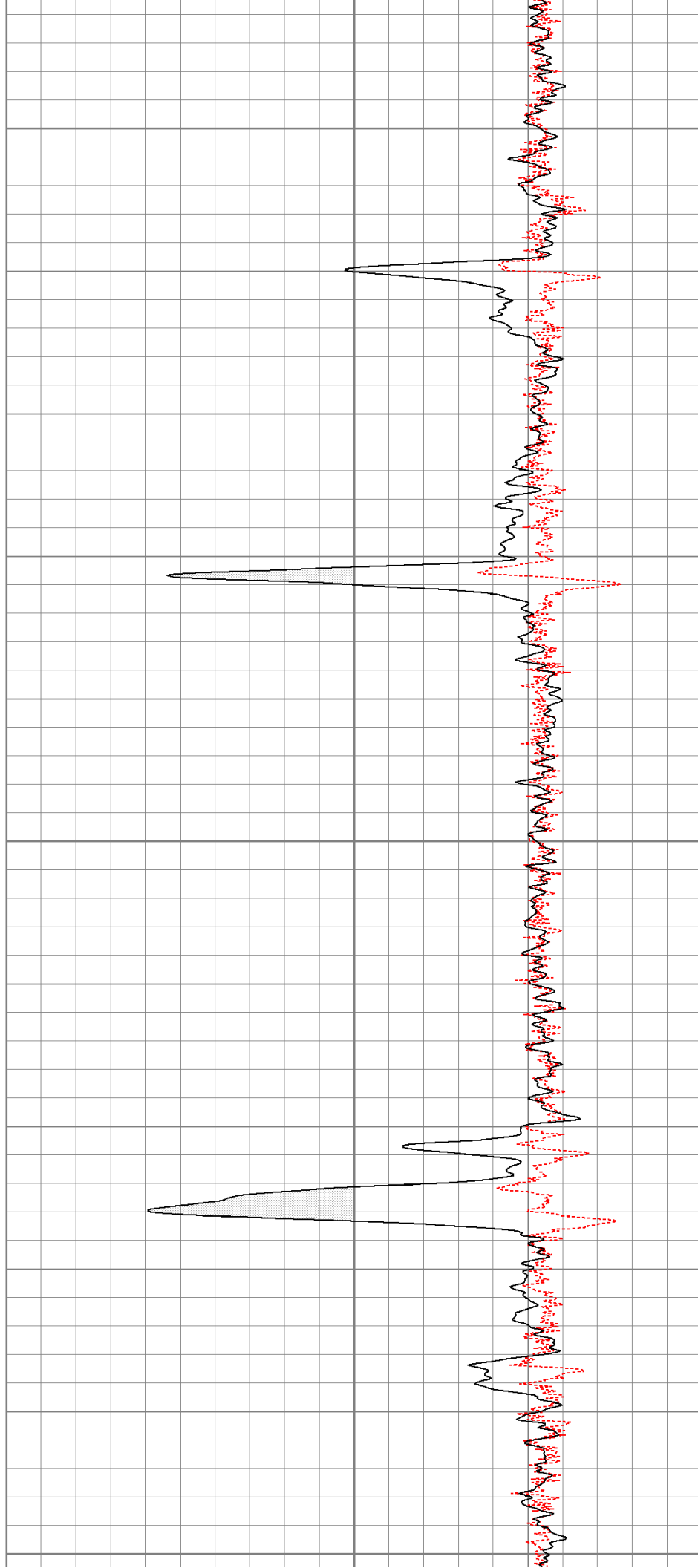


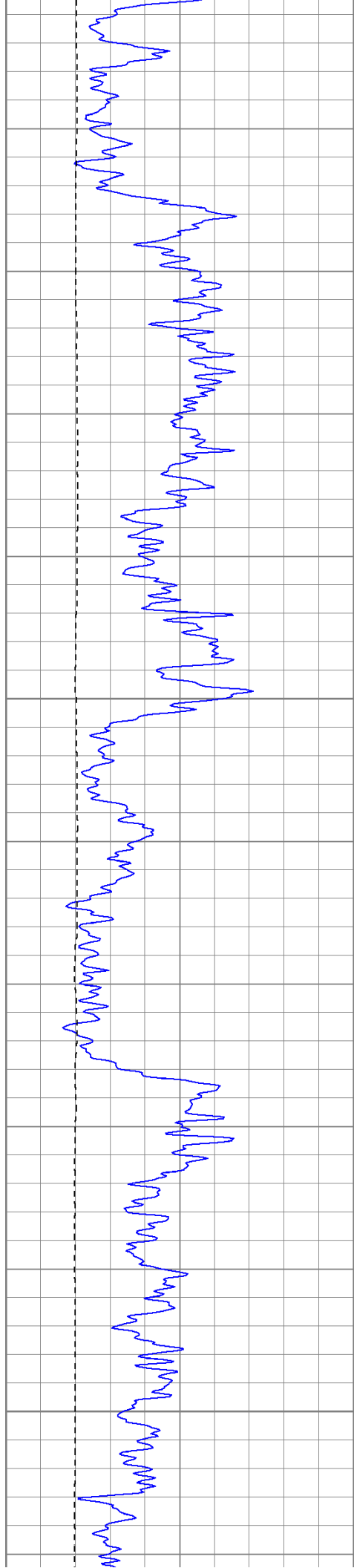


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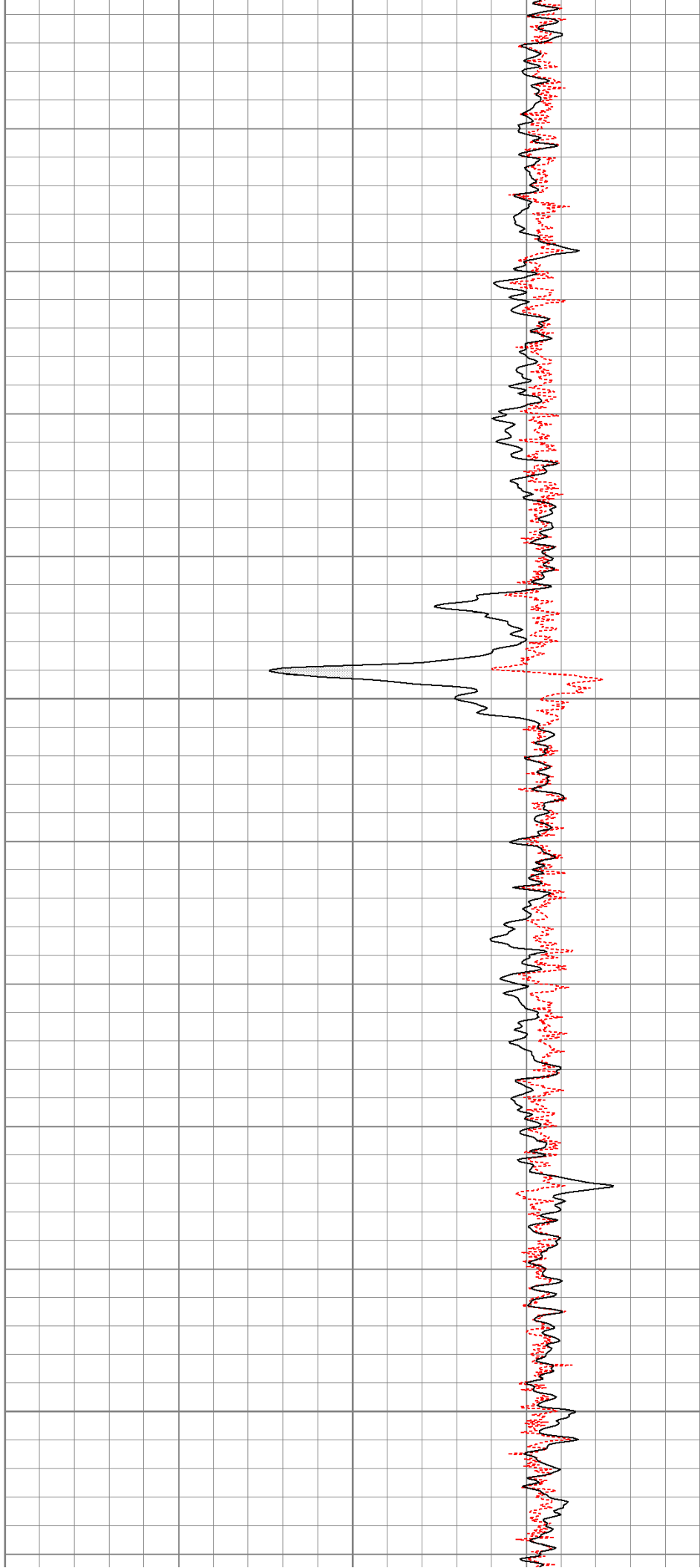
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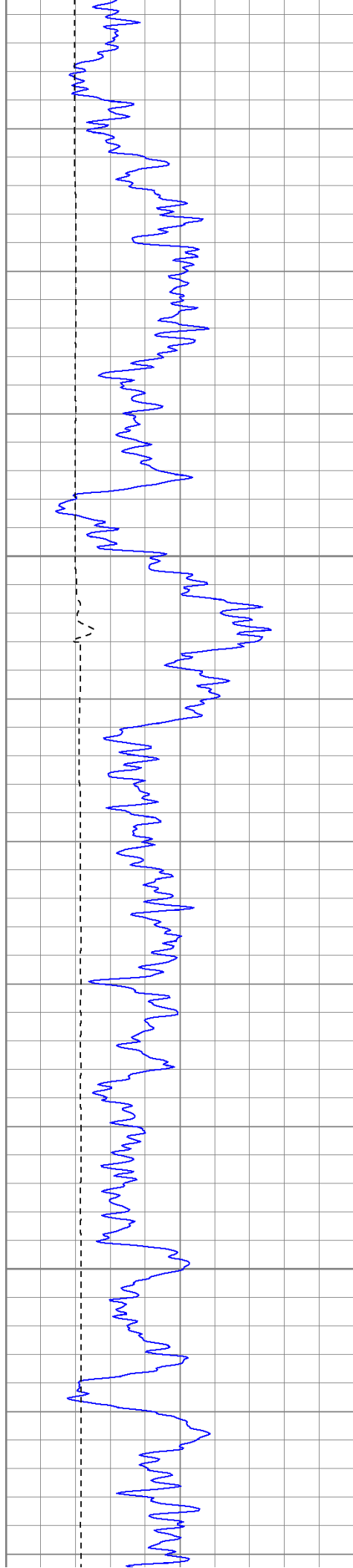




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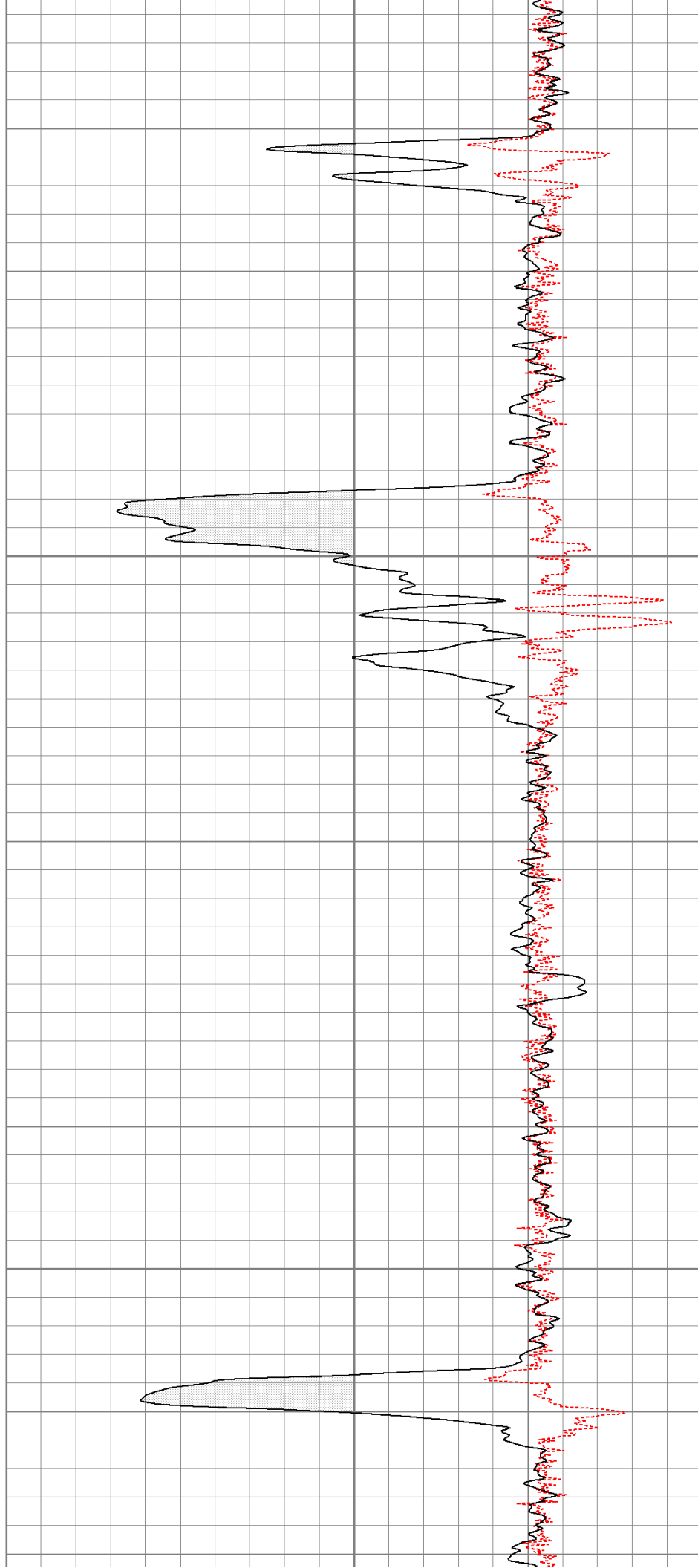
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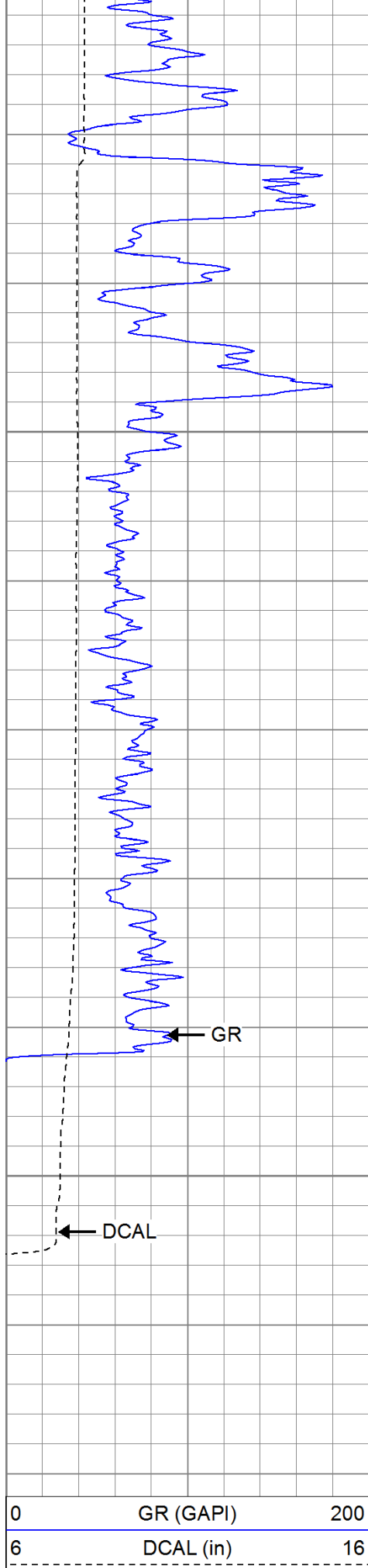




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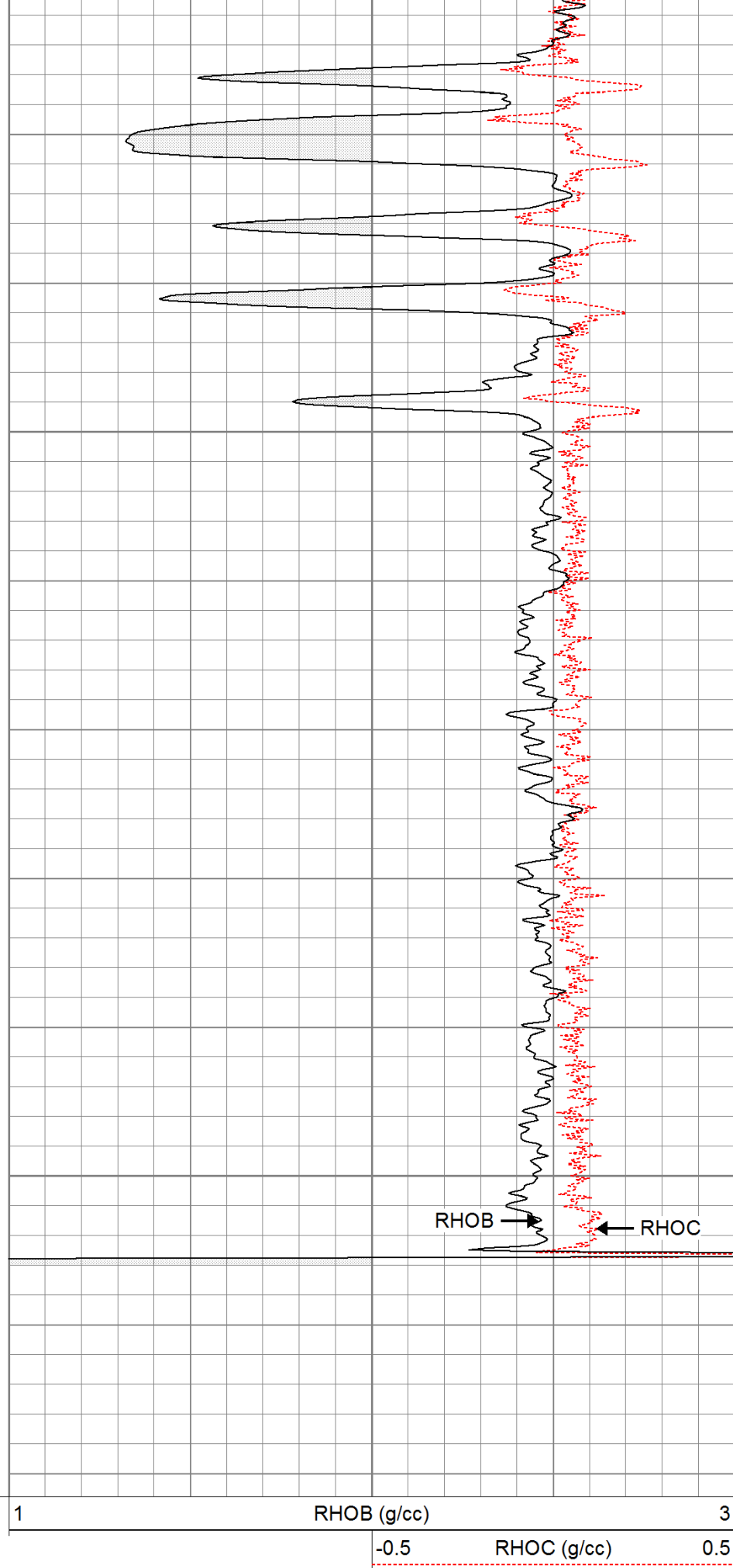
2450















2500

2550



Calibration Report				
Database File:		larissa.db		
Dataset Pathname:		pass1		
Dataset Creation:		Sun Oct 09 02:27:40 2011 by Log Open-Cased 110302		
Induction Tool Calibration Report				
Serial Number:		701		
Tool Model:		Probe		
Downhole Cal Performed:		Wed Jun 08 22:14:25 2011		
Surface Cal Performed:		Wed Jun 08 22:14:40 2011		
After Survey Verification Performed:				
Surface Calibration:		Air	Loop	
Conductivity Reference:		0.000	500.000	mmho
Conductivity Reading:		0.006	0.644	V
Internal Reference:		Zero	Cal	
Conductivity Reference:		0.000	500.000	mmho
Conductivity Reading:		0.007	0.643	V
Downhole Calibration:		Internal Zero	Internal Cal	
Conductivity Reference:		0.703	499.163	mmho
Conductivity Reading:		0.000	0.000	V
Short Normal Reference:		0.000	20.000	Ohm-m
Short Normal Reading:		0.005	0.214	V
Results:		Gain	Offset	
Loop Conductivity:		783.886	-4.674	
Downhole Correction:		1.000	0.000	
Short Normal Resistivity:		95.281	0.050	
After Survey Verification		Internal Zero	Internal Cal	
Conductivity Reading:		0.000	0.000	V
Conductivity Result:		0.000	0.000	mmho
Short Normal Reading:		0.000	0.000	V
Short Normal Result:		0.000	0.000	Ohm-m
Compensated Density Calibration Report				
Serial-Model:		901-2.75POH		
Source / Verifier:		/		
Master Calibration Performed:		Mon Aug 29 11:08:43 2011		
Before Survey Verification Performed:				
After Survey Verification Performed:				
Master Calibration				
	Density		Far Detector	Near Detector
Magnesium	1.710	g/cc	1001.79	578.48 cps
Aluminum	2.590	g/cc	180.36	300.39 cps
Spine Angle = 69.08			Density/Spine Ratio = 0.479	
	Size		Reading	
Small Ring	8.30	in	2.50	V
Large Ring	16.00	in	4.57	V
Before Survey Verification				
	Target		Measured	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc
After Survey Verification				

Target		Measured	
	g/cc g/cc g/cc		g/cc g/cc g/cc
Neutron Calibration Report			
Serial Number:	803		
Tool Model:	2.75POH		
Performed:	Fri Sep 02 07:59:19 2011		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	
Gamma Ray Calibration Report			
Serial Number:	804		
Tool Model:	2.75POH		
Performed:	Fri Aug 12 08:39:59 2011		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.6500	GAPI/cps	

Sensor	Offset (ft)	Schematic		Description	Len (ft)	OD (in)	Wt (lb)
GR	29.58			None	0.75	1.50	5.00
				GR-2.75POH (804) Probe 2.75" Probe Open Hole Gamma Ray	3.73	2.75	43.00
NEU	24.04			NEU-2.75POH (803) Probe Epithermal	4.75	2.75	58.00
LSD DCAL SSD	16.21			CDL-2.75POH (901) Probe	8.43	2.75	106.00
	15.94						
	15.69						
DIC	6.24			IEL-Probe (701)	13.46	2.75	93.00
SP SN	2.25						
	1.71						

Total Length:	31.11 ft
Total Weight:	305.00 lb
O.D.	2.75 in