



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 01-12
Field Purgatoire River
County Las Animas State Colorado

Location: API #: 05 071 09562 00

2314' FSL & 645' FWL

SEC 01 TWP 35S RGE 68W

Permanent Datum	Ground Level	Elevation	8659'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Other Services
DIL
Elevation
K.B. -----
D.F. -----
G.L. 8659'

Date	3-4-09		
Run Number	One		
Depth Driller	2275'		
Depth Logger	2273'		
Bottom Logged Interval	2250'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 456'		
Casing Logger	454'		
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	11:00 A.M.		
Time Logger on Bottom	1:15 P.M.		
Maximum Recorded Temperature	100 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:

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, go straight up hill, past 3 locations, take hard right, pass one location on top of hill, follow road down, dead end on location.



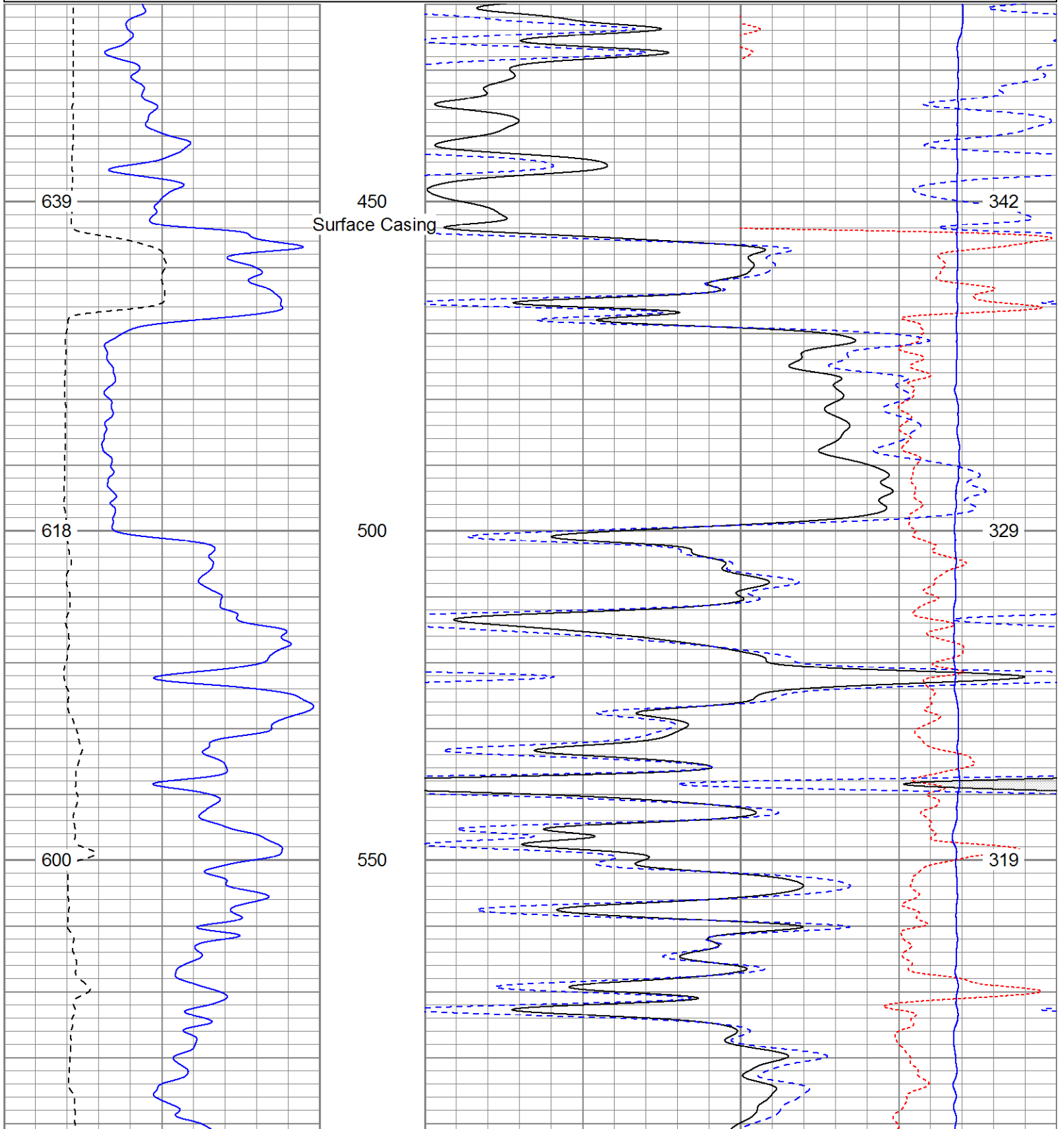
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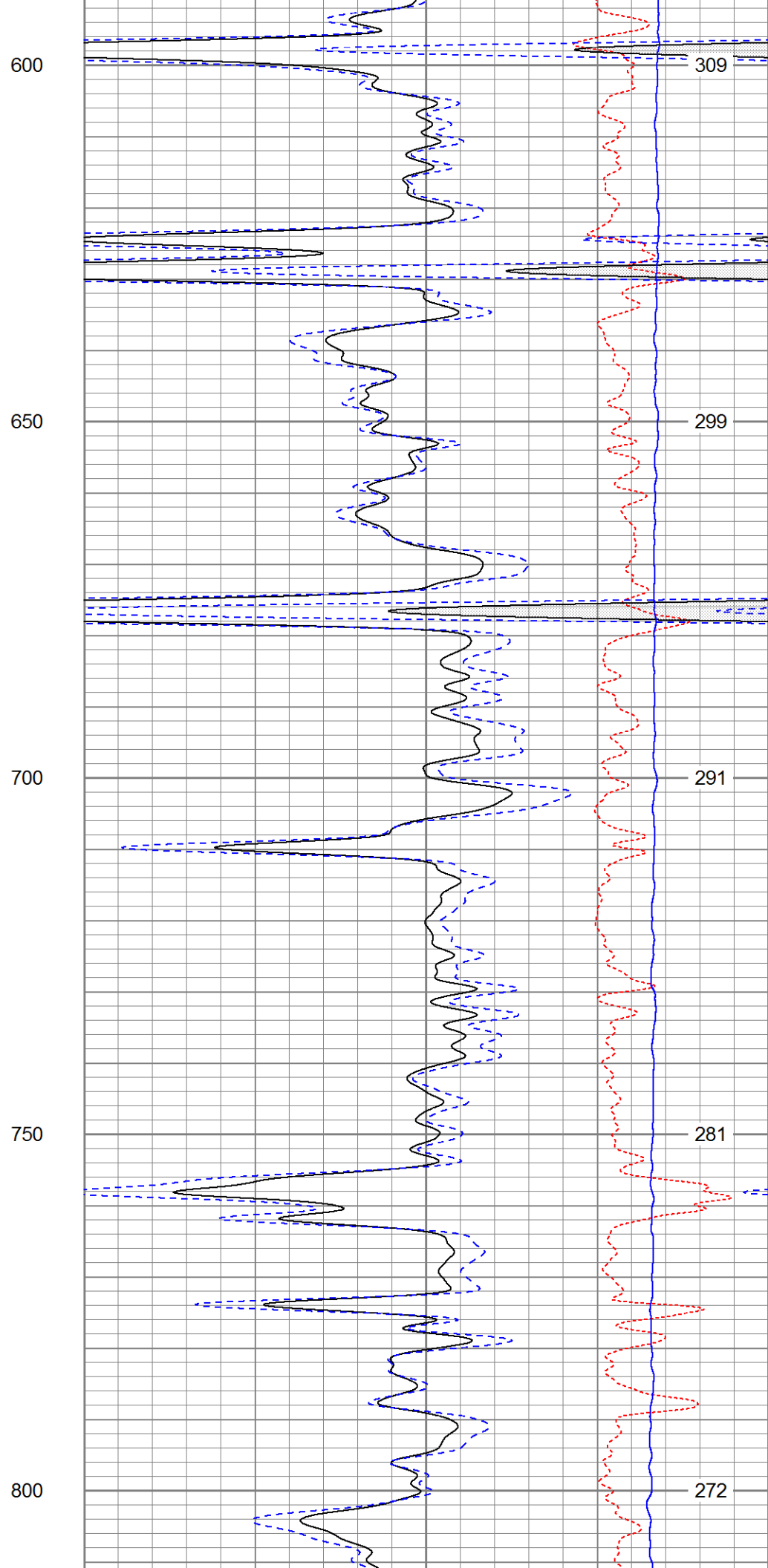
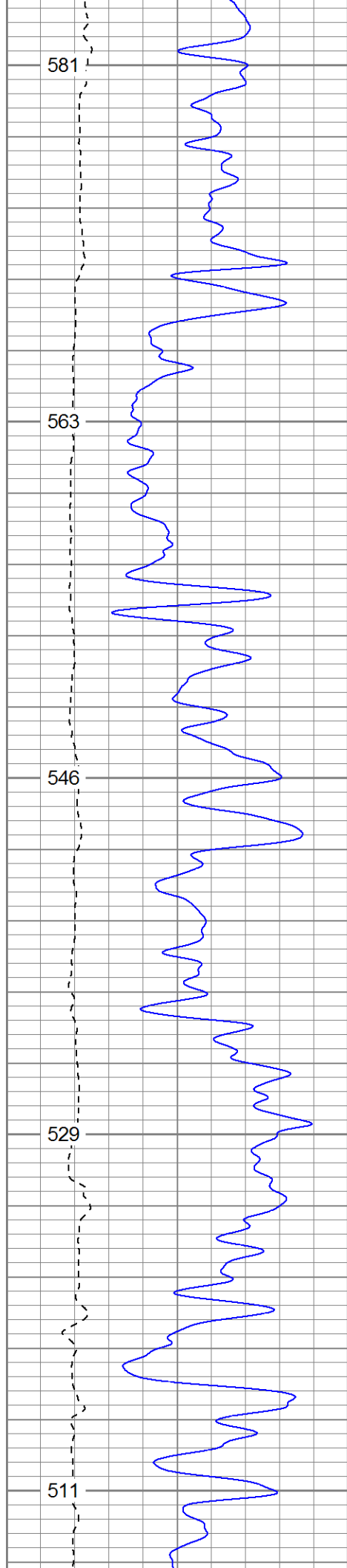
Main Pass

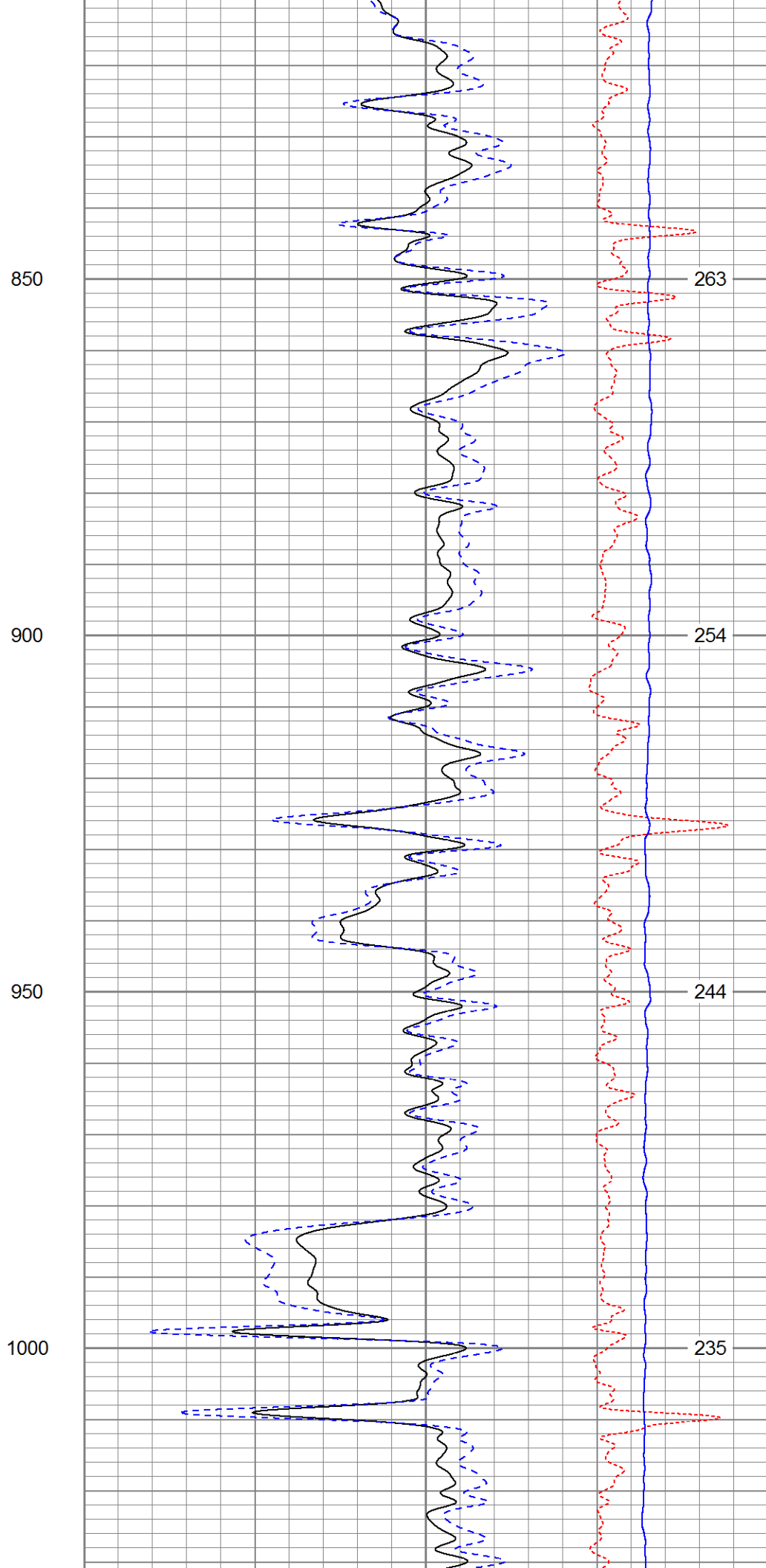
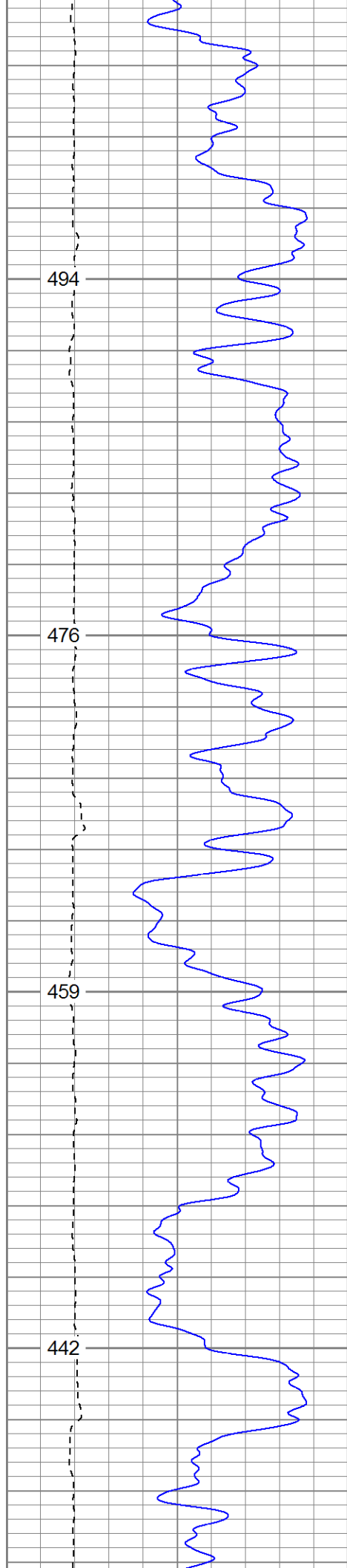
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Presentation Format: cdl
Dataset Creation: Wed Mar 04 14:56:27 2009 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

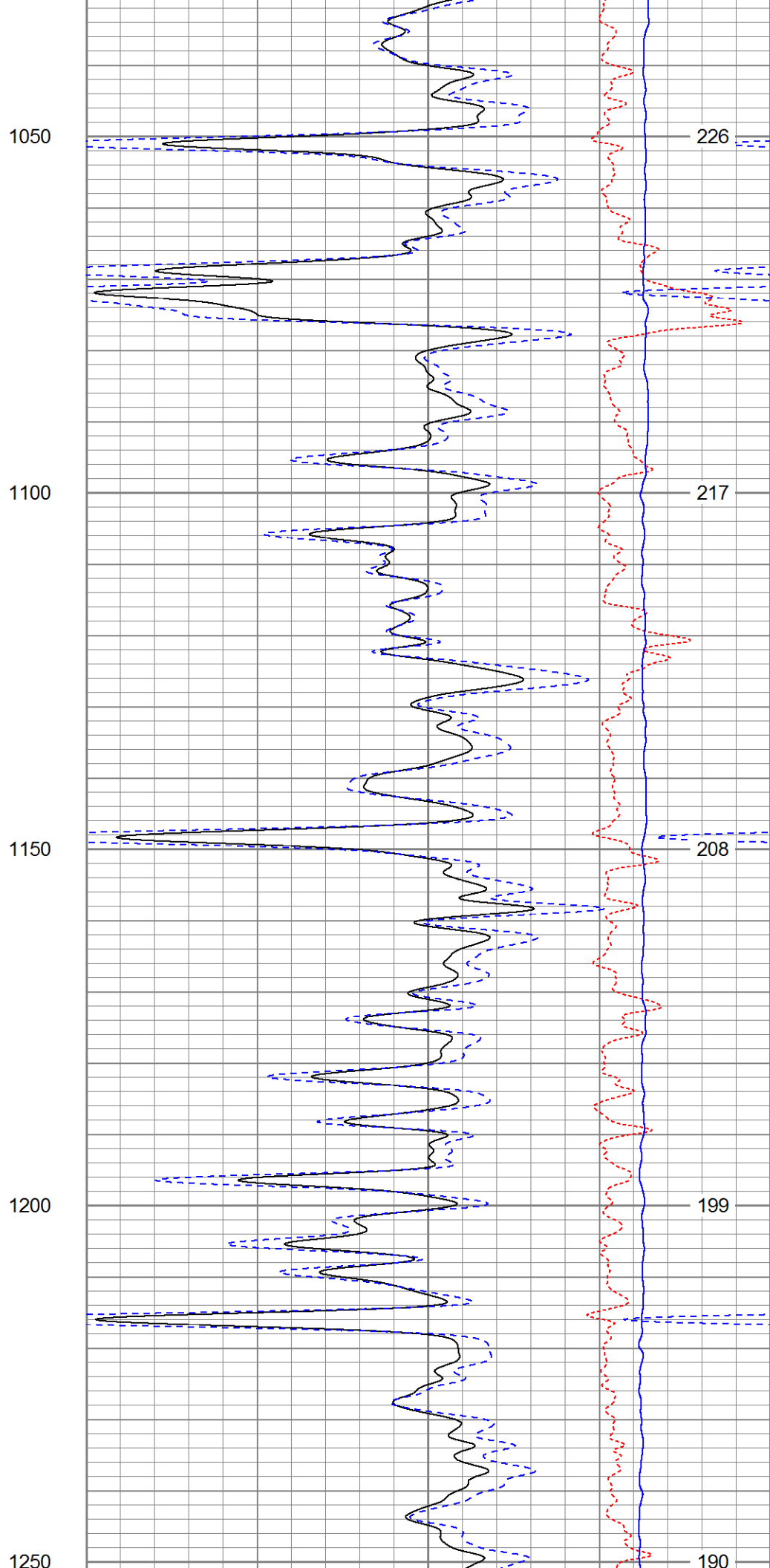
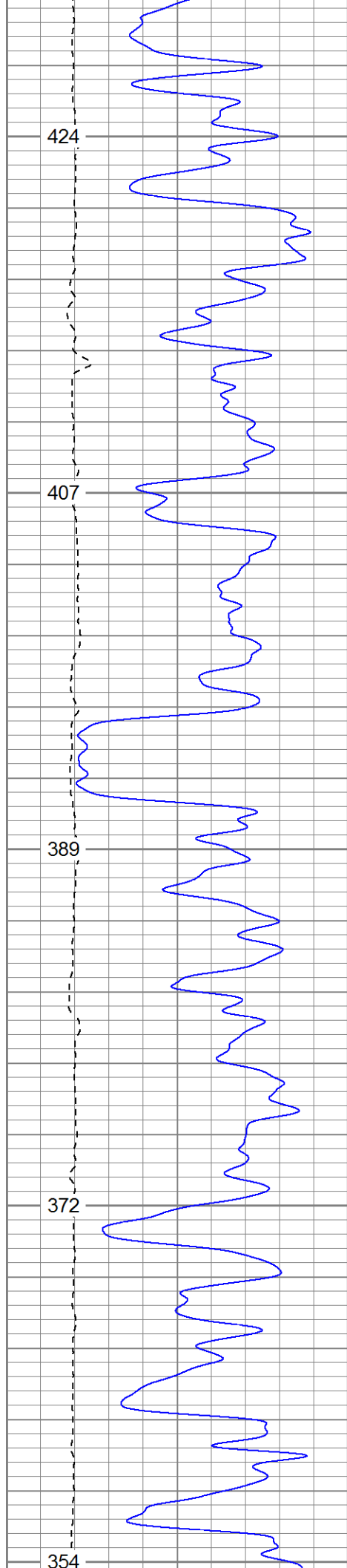
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6	DCAL (in)	16
TBHV (ft3)		

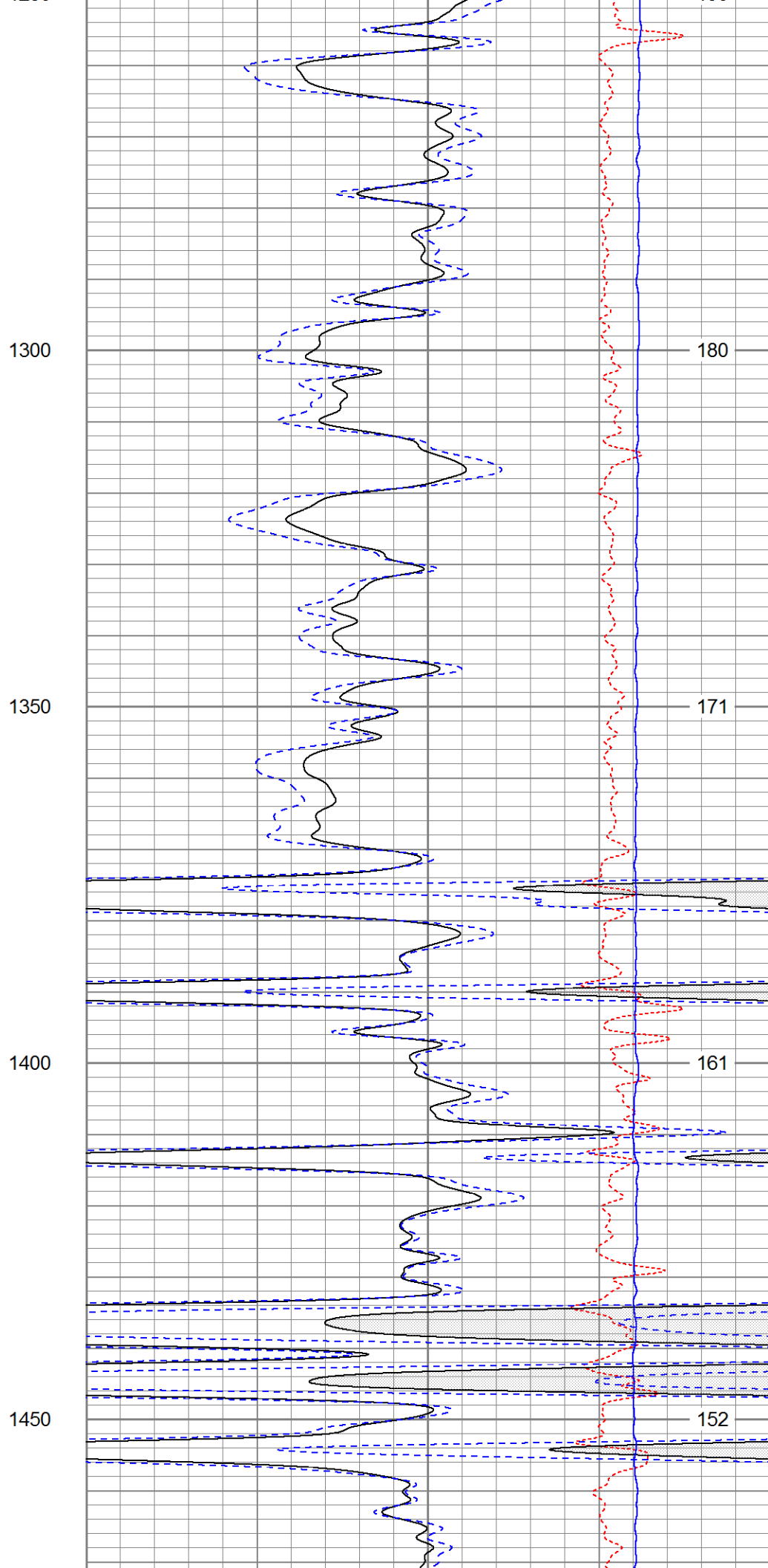
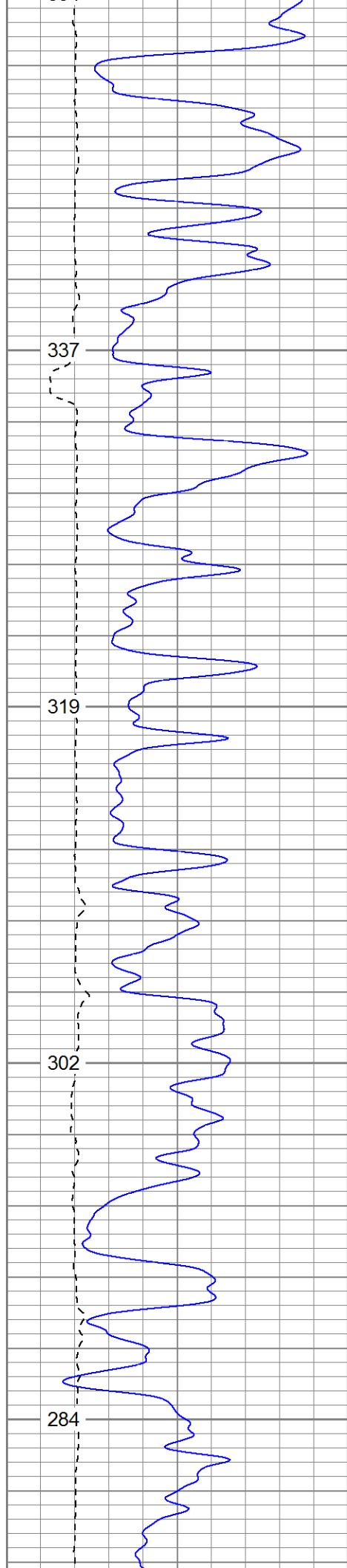
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5 RHOC (g/cc) 0.5		
4000 LTEN (lb) 0		
ABHV (ft3)		

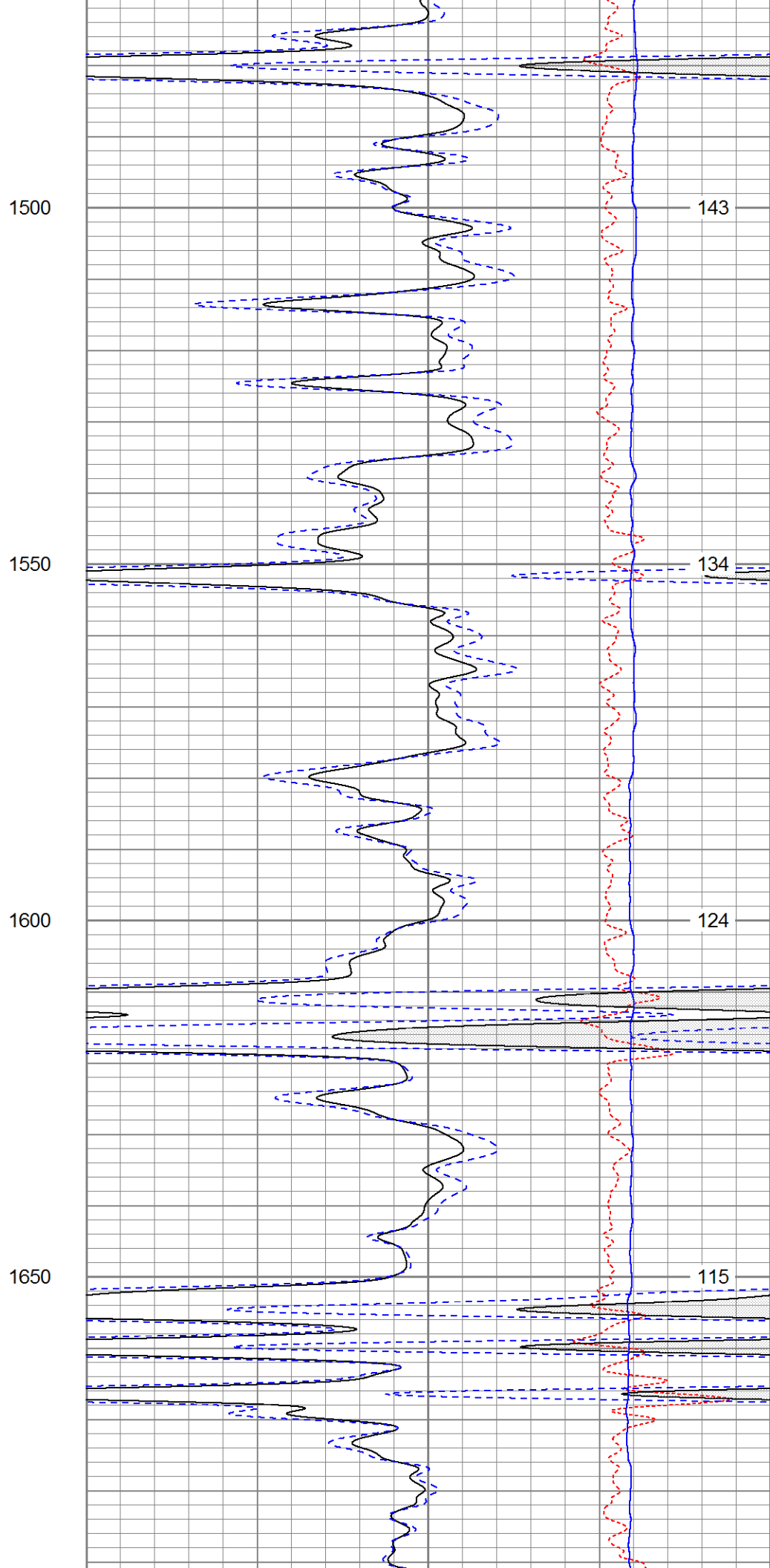
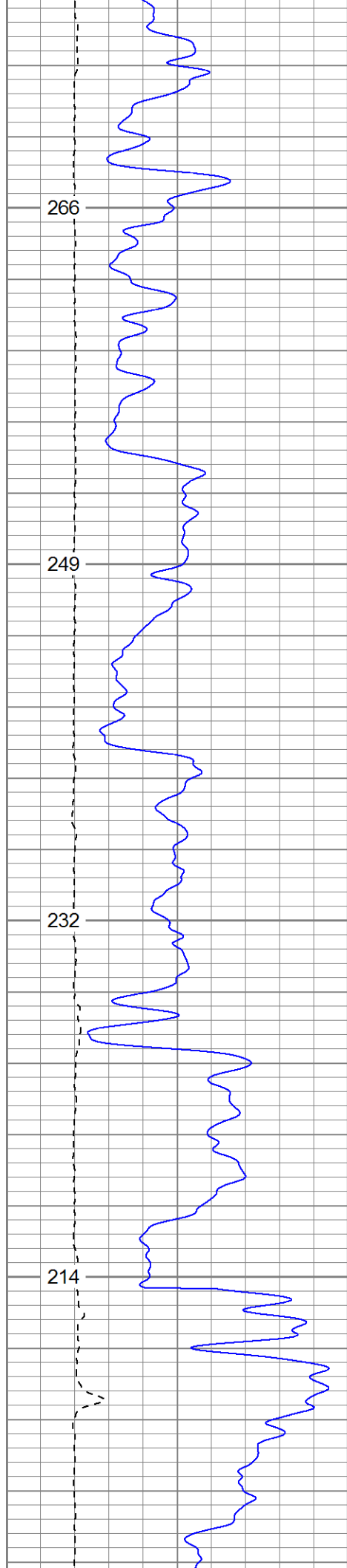


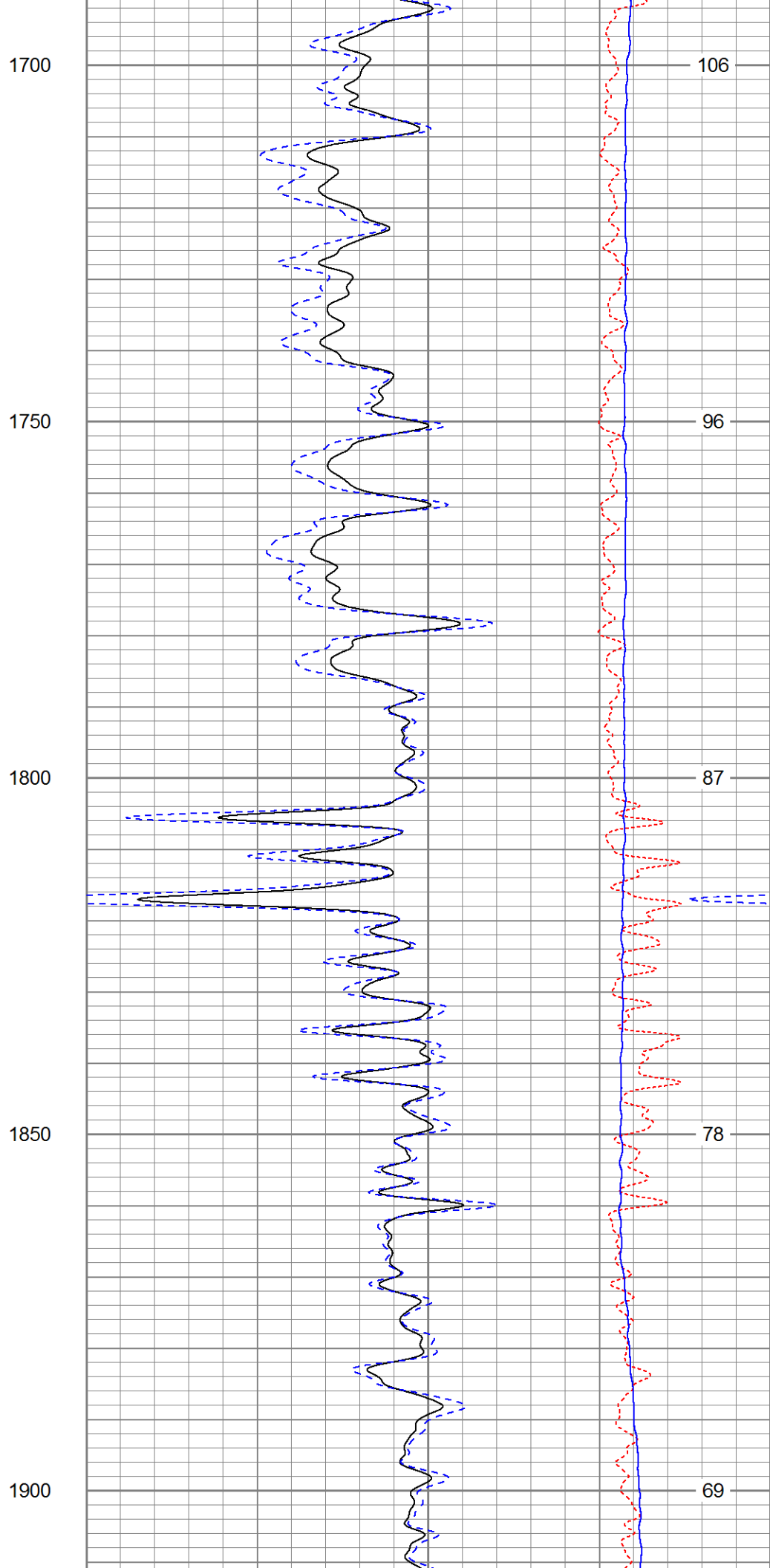
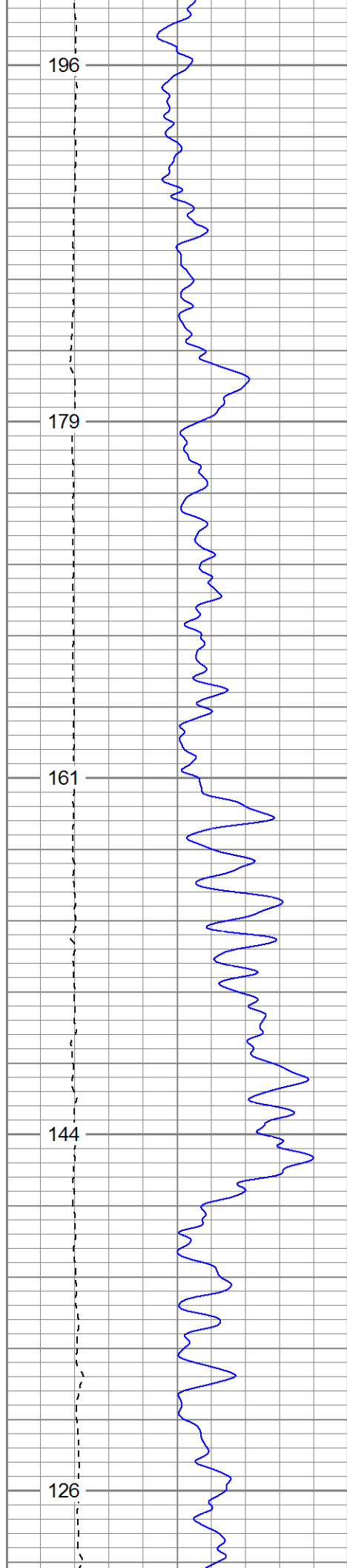


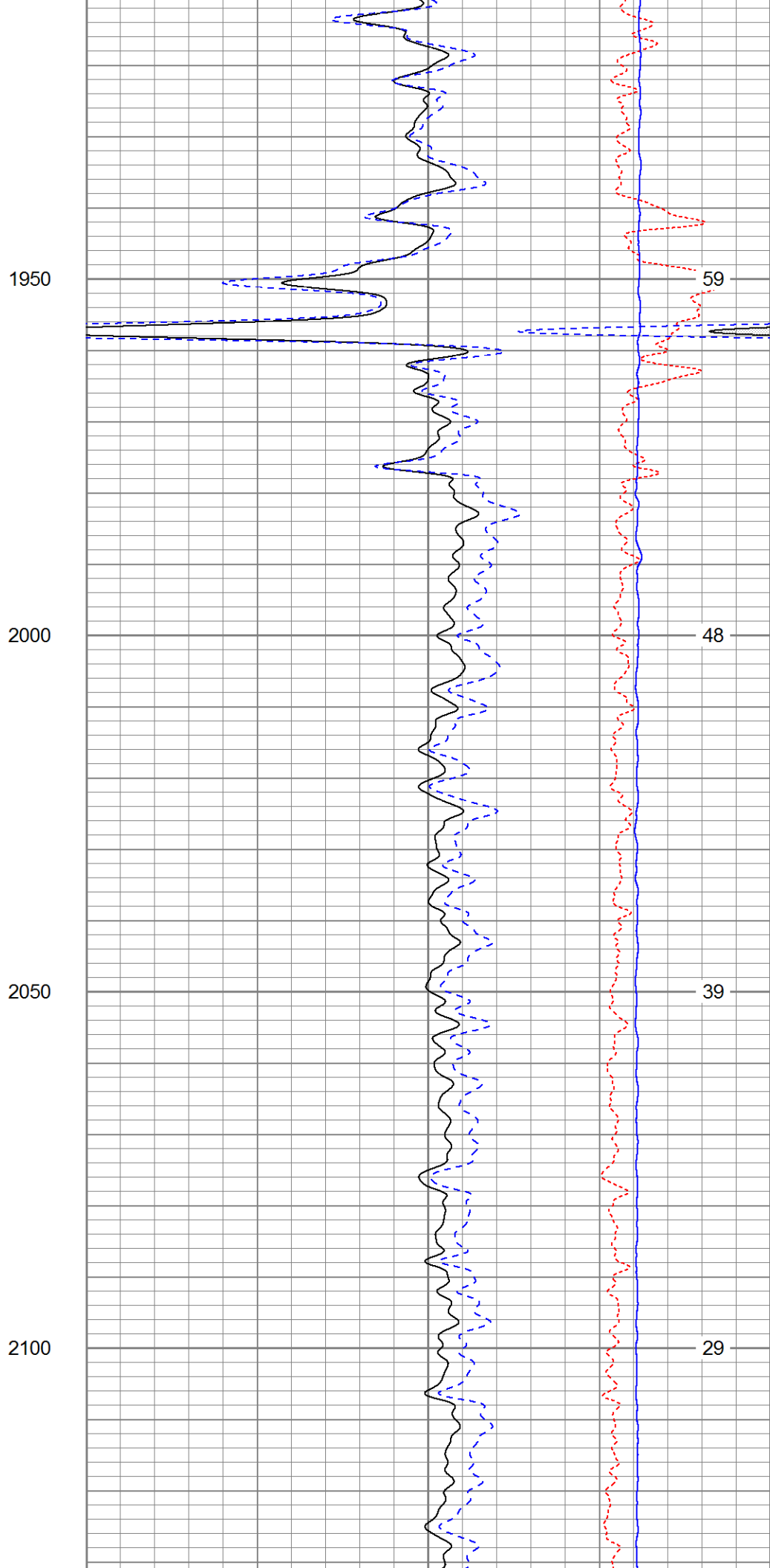
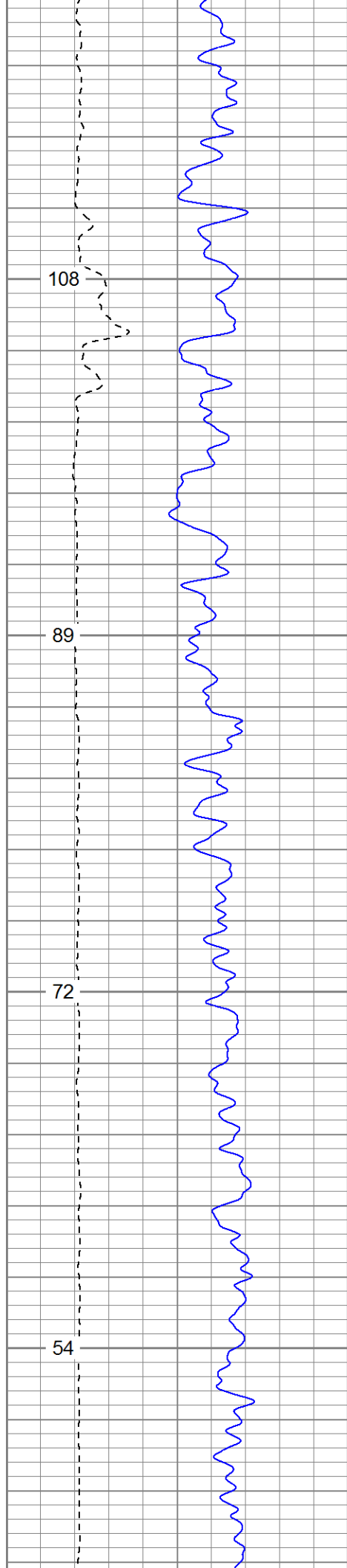


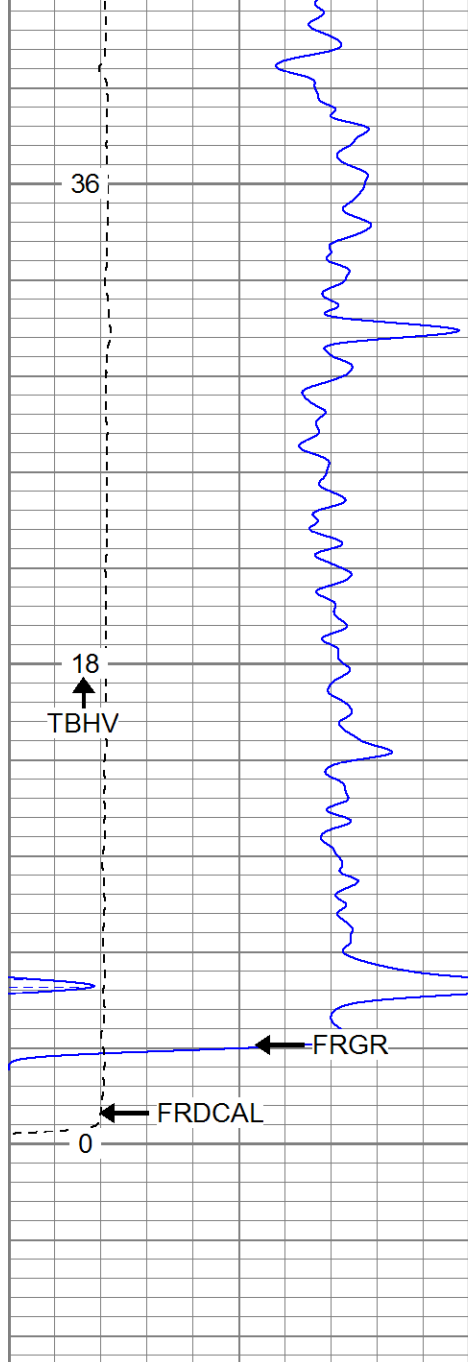




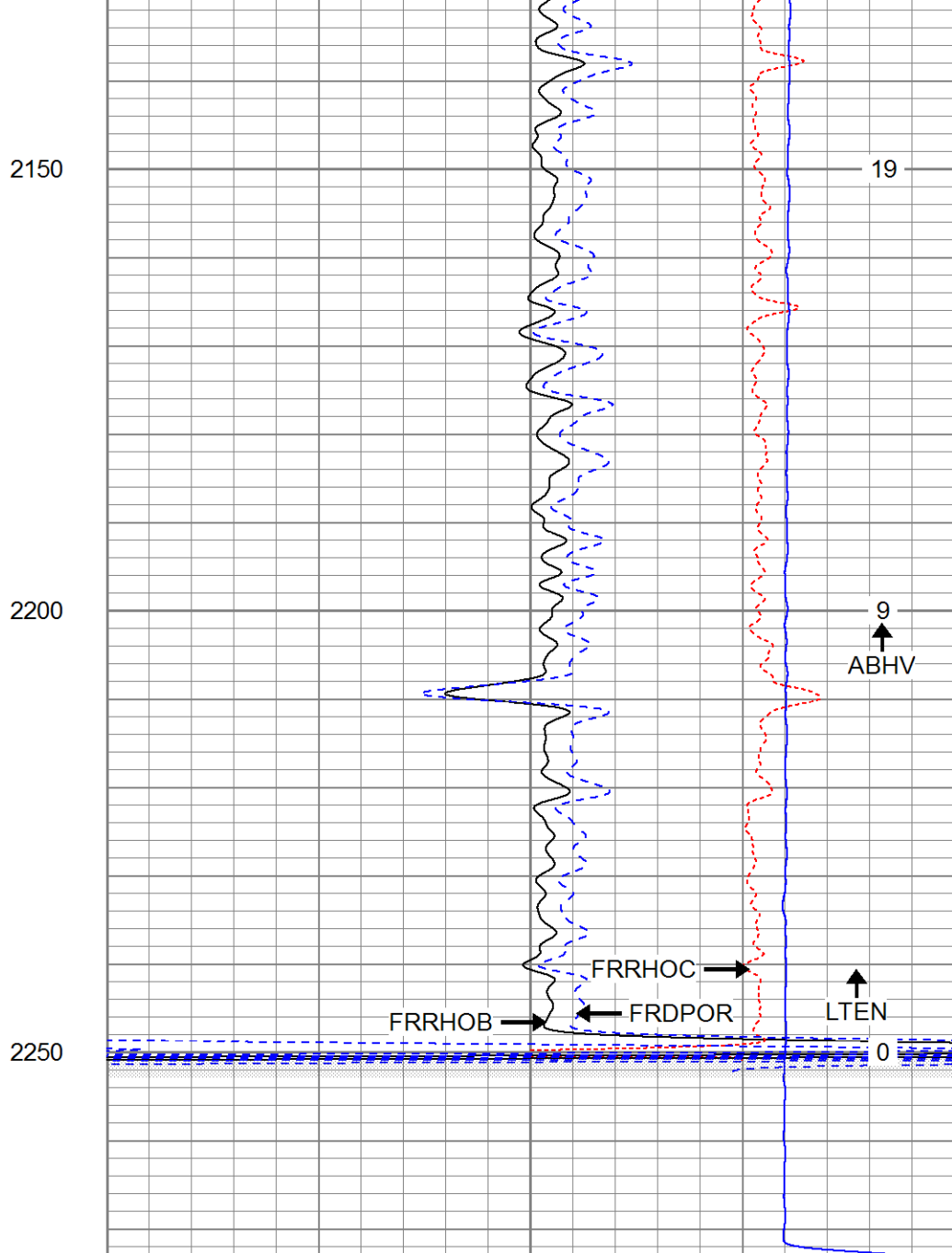








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



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



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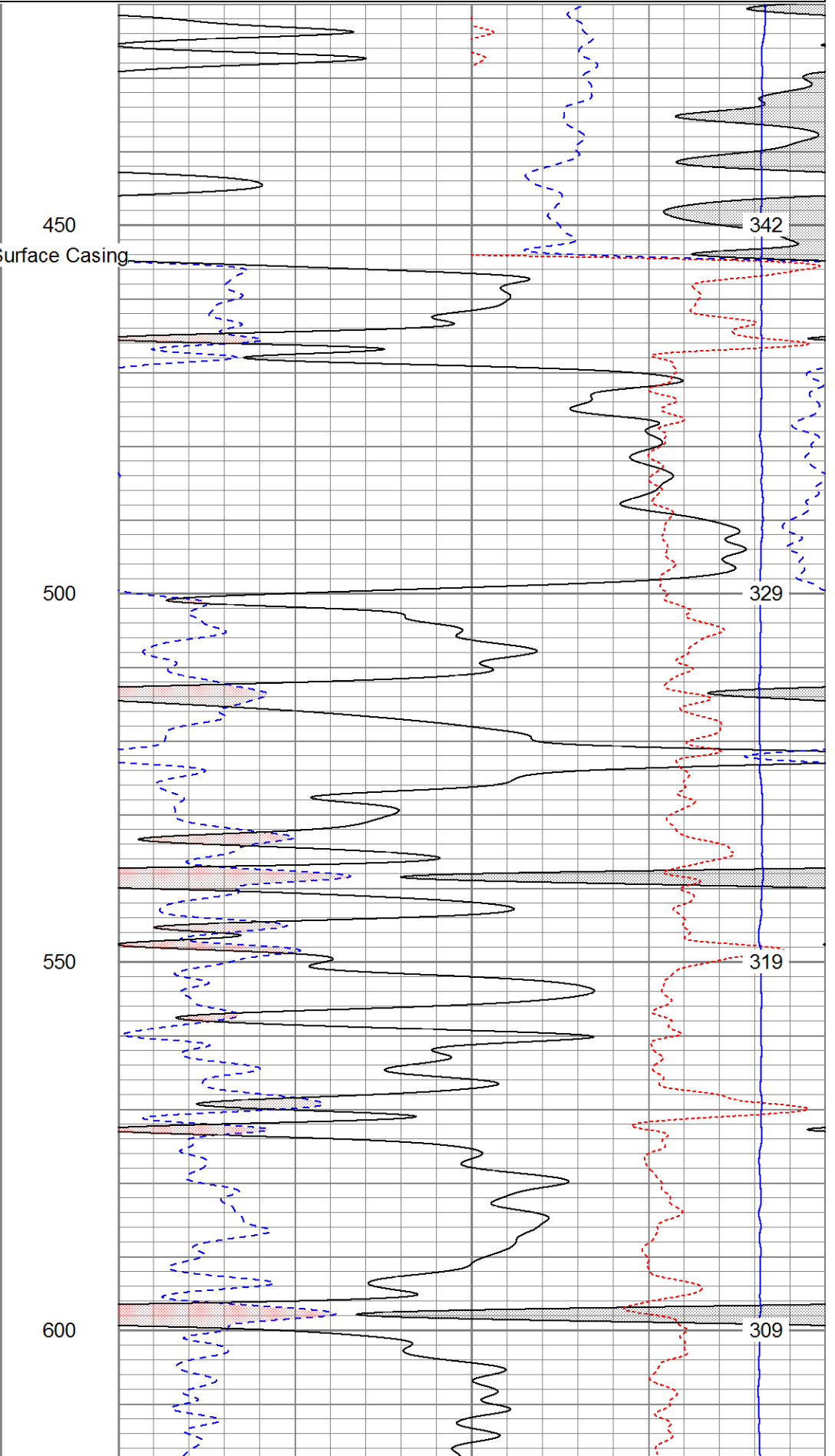
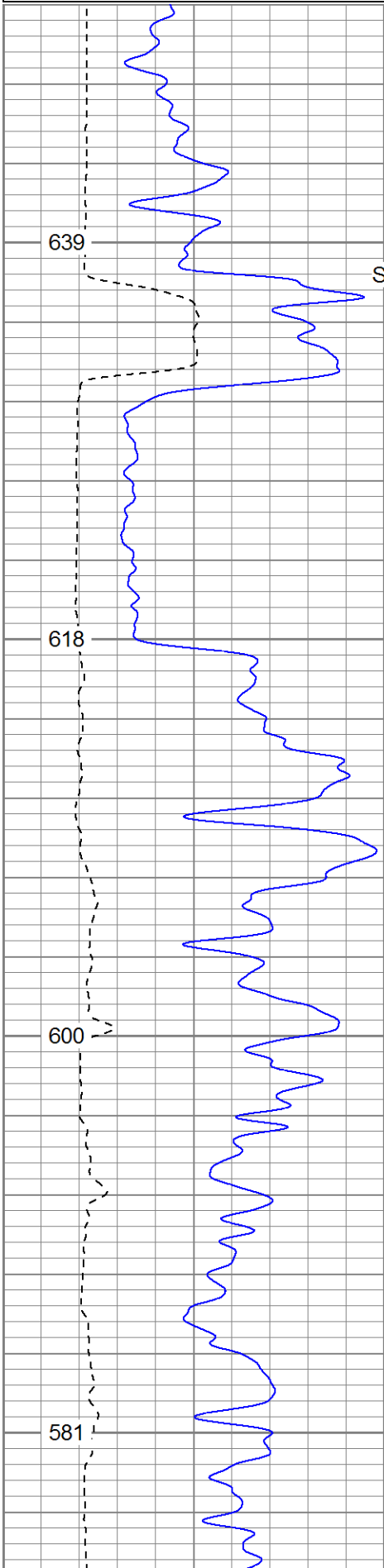
Main Pass

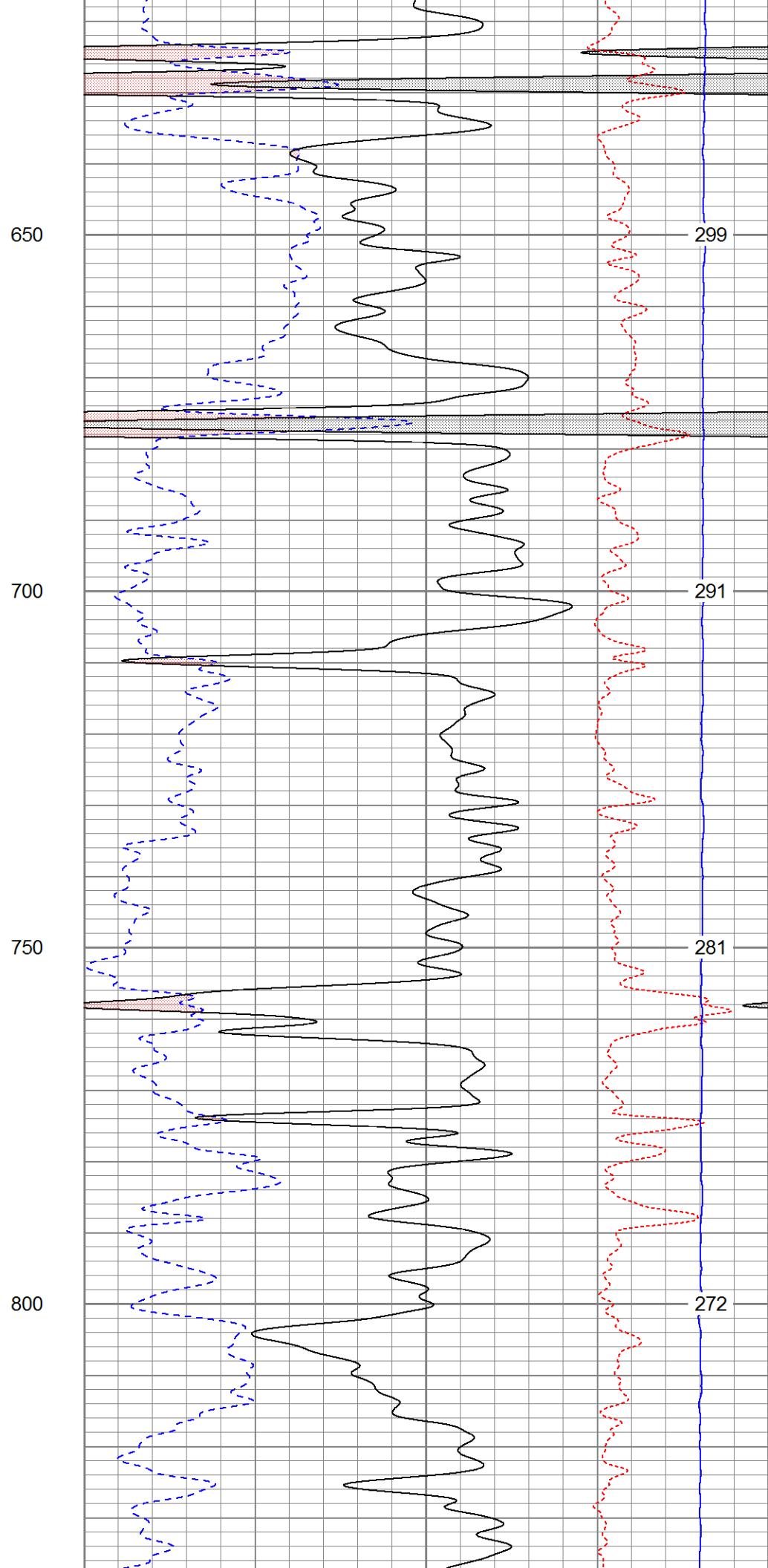
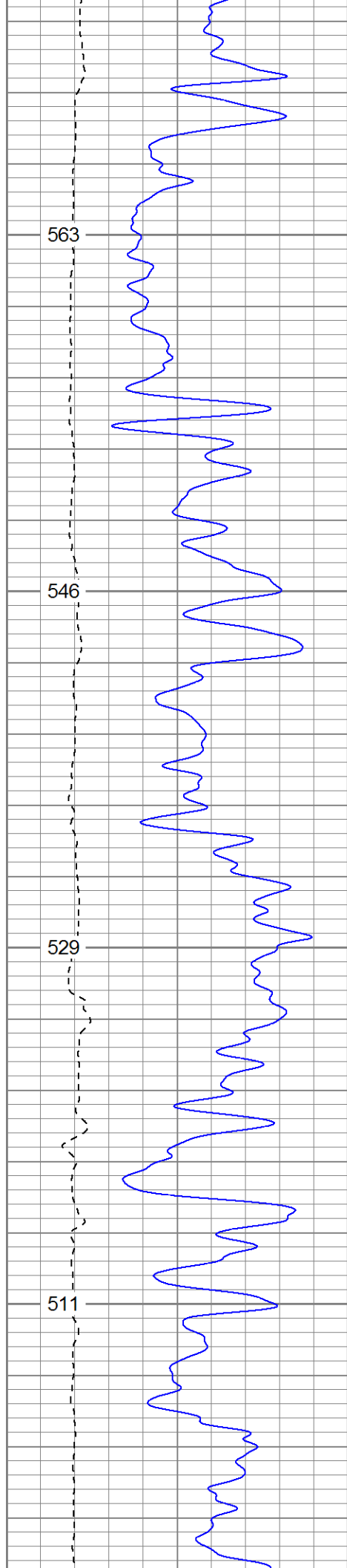
Database File: xtohr0112.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Wed Mar 04 14:56:27 2009 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

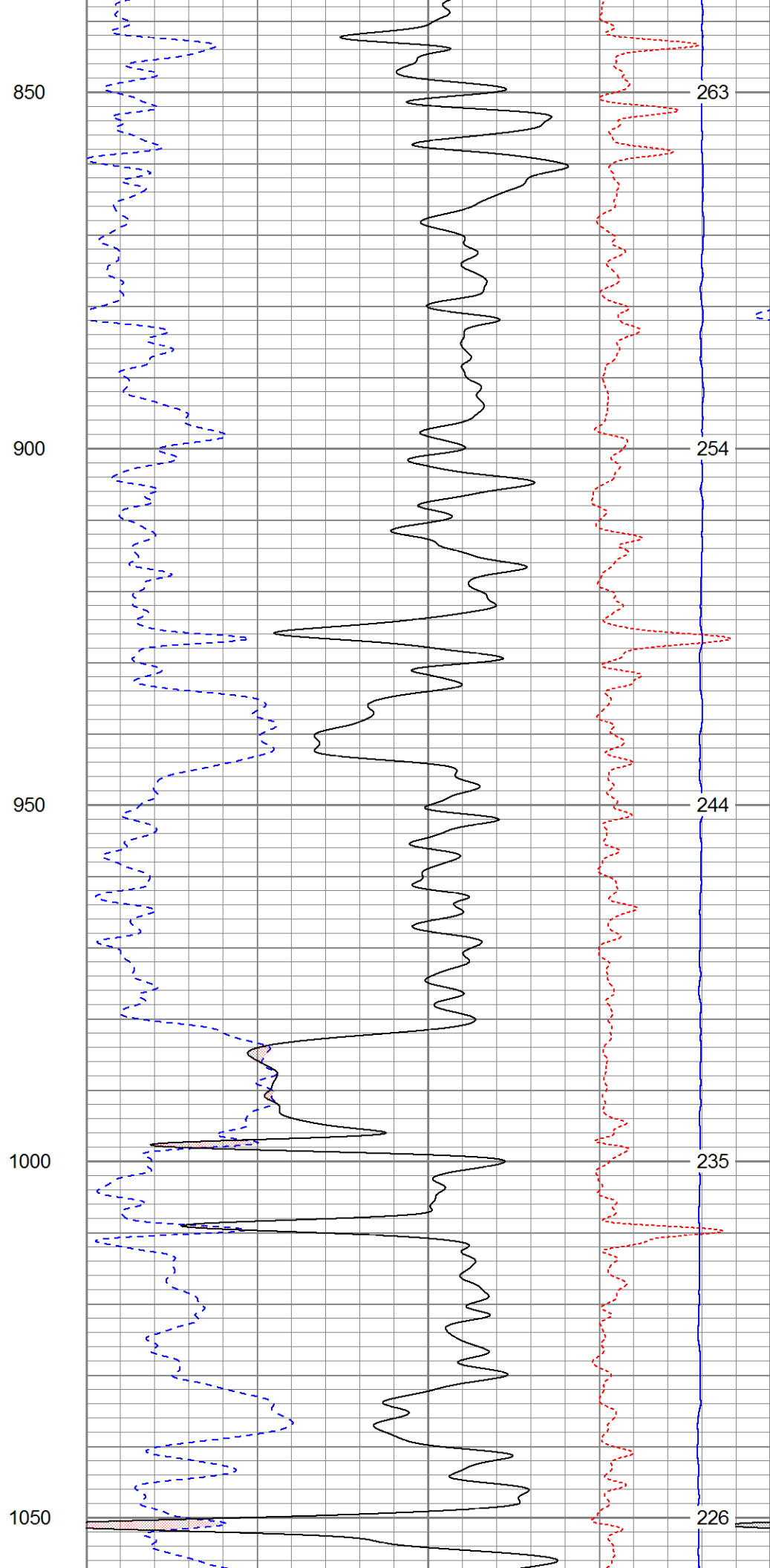
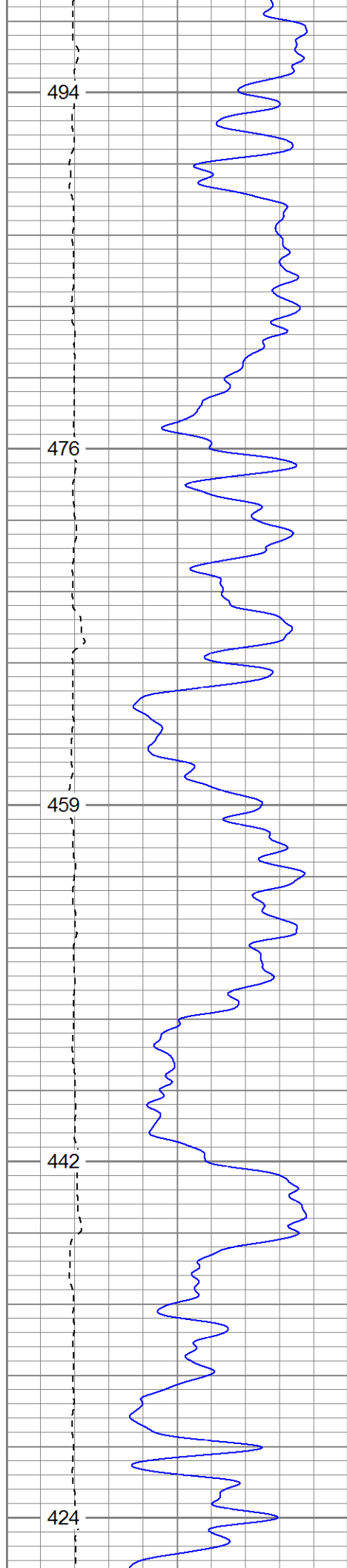
0	GR (GAPI)	200	30	NPOR (pu)	-10
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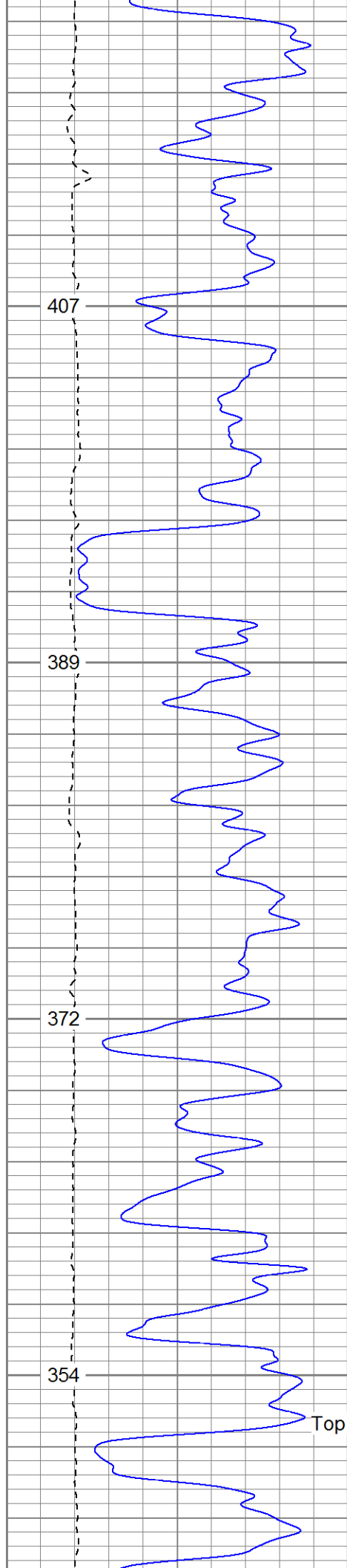
6	SR (GAL)	200
	DCAL (in)	16
TBHV (ft3)		

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

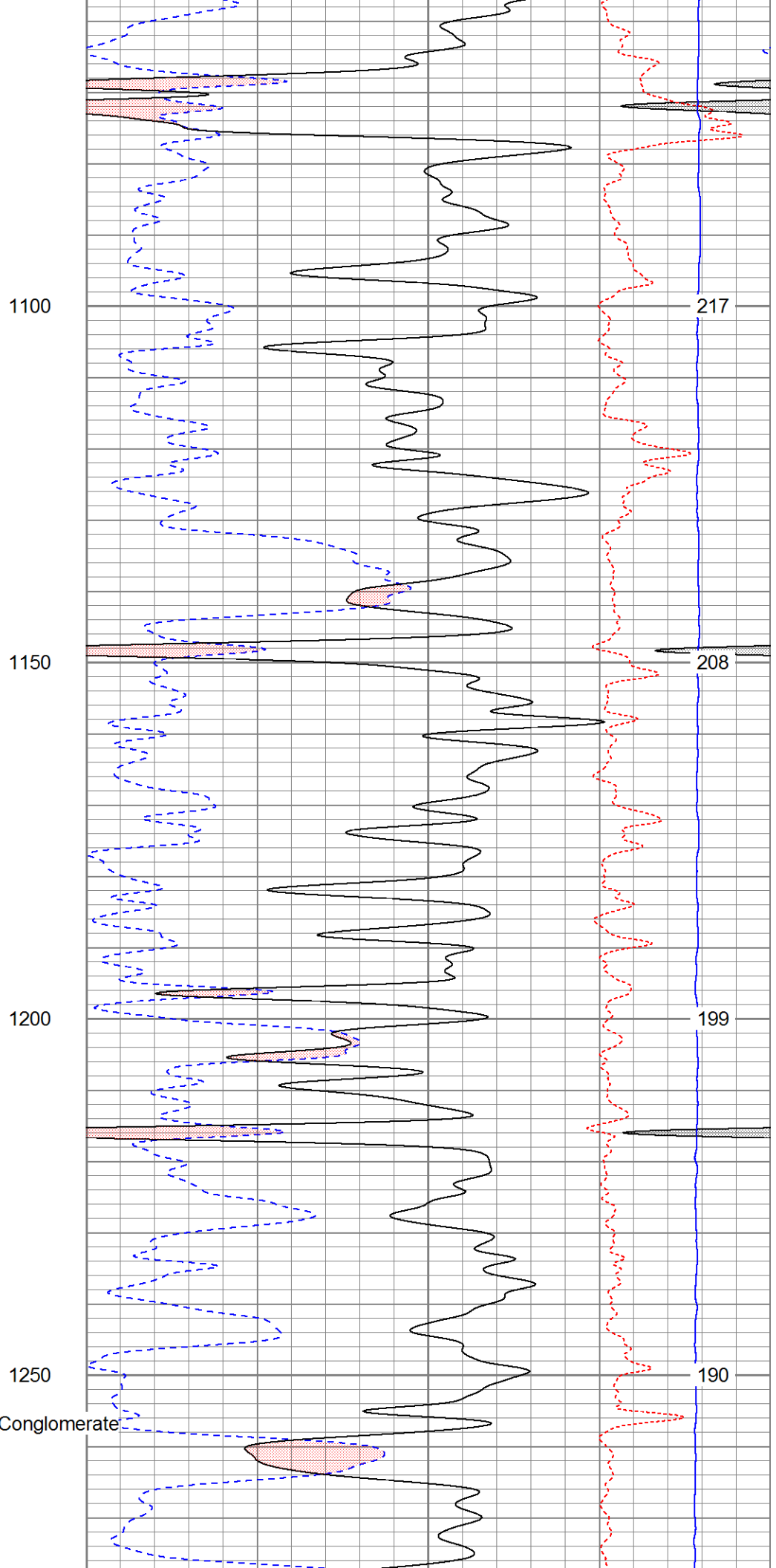


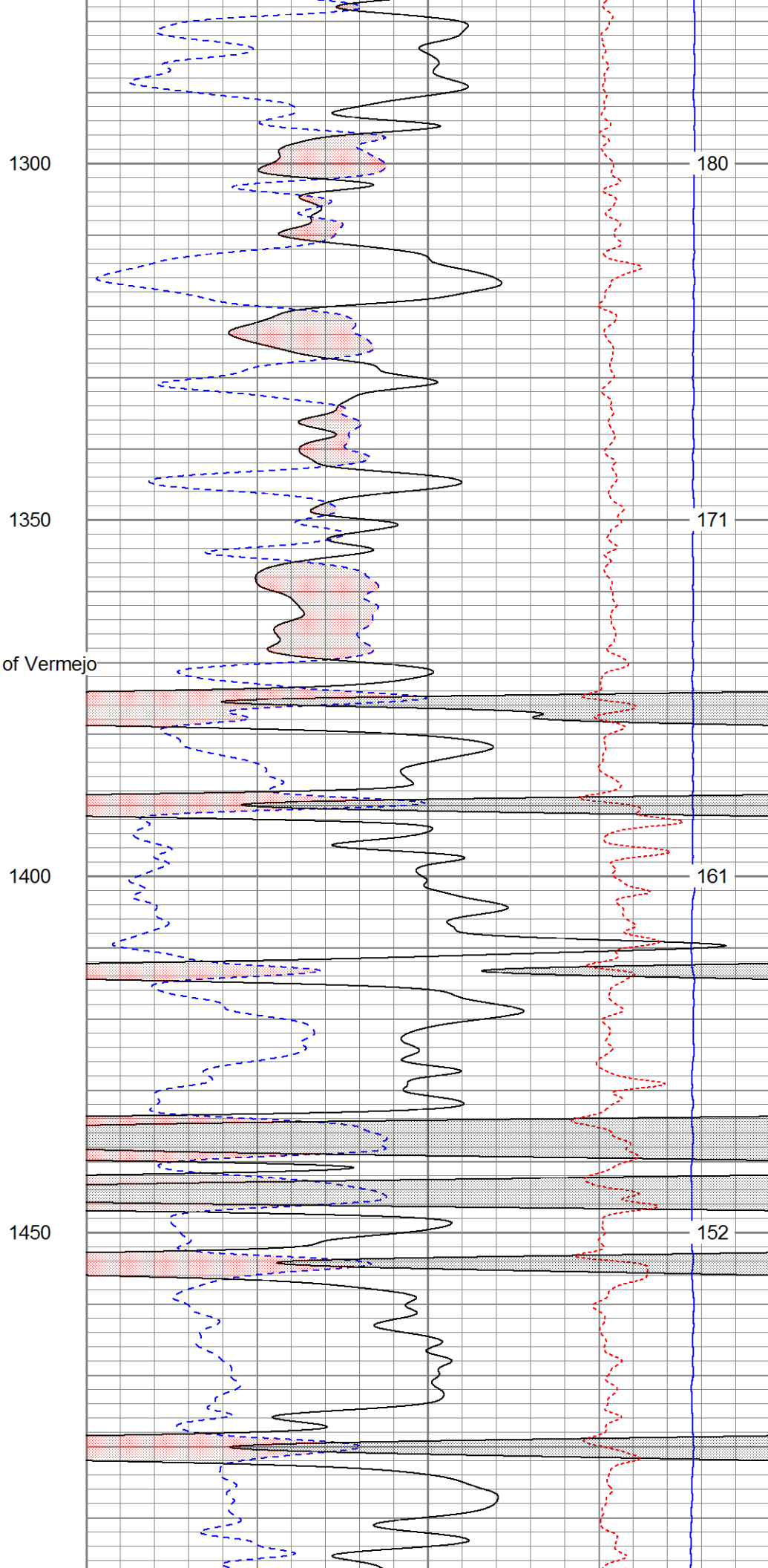
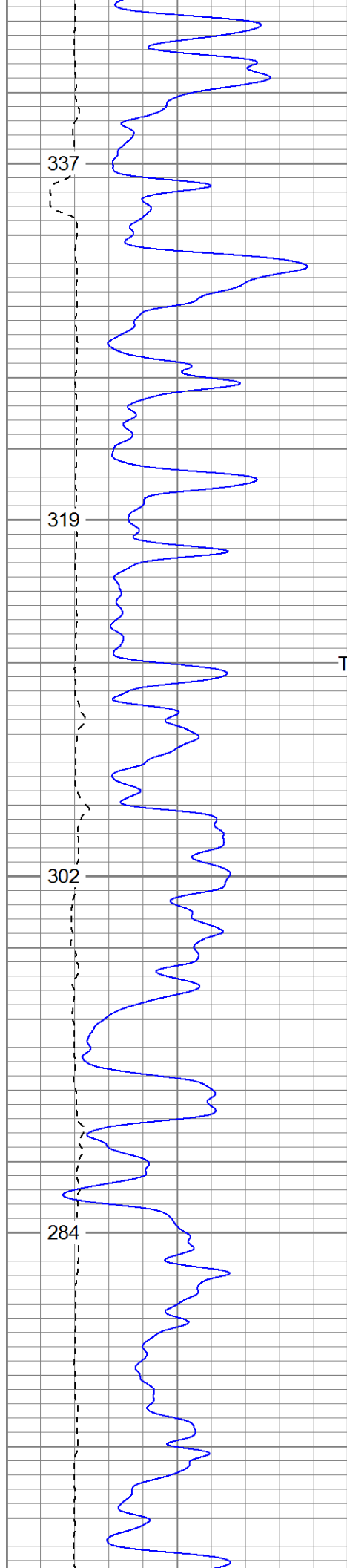


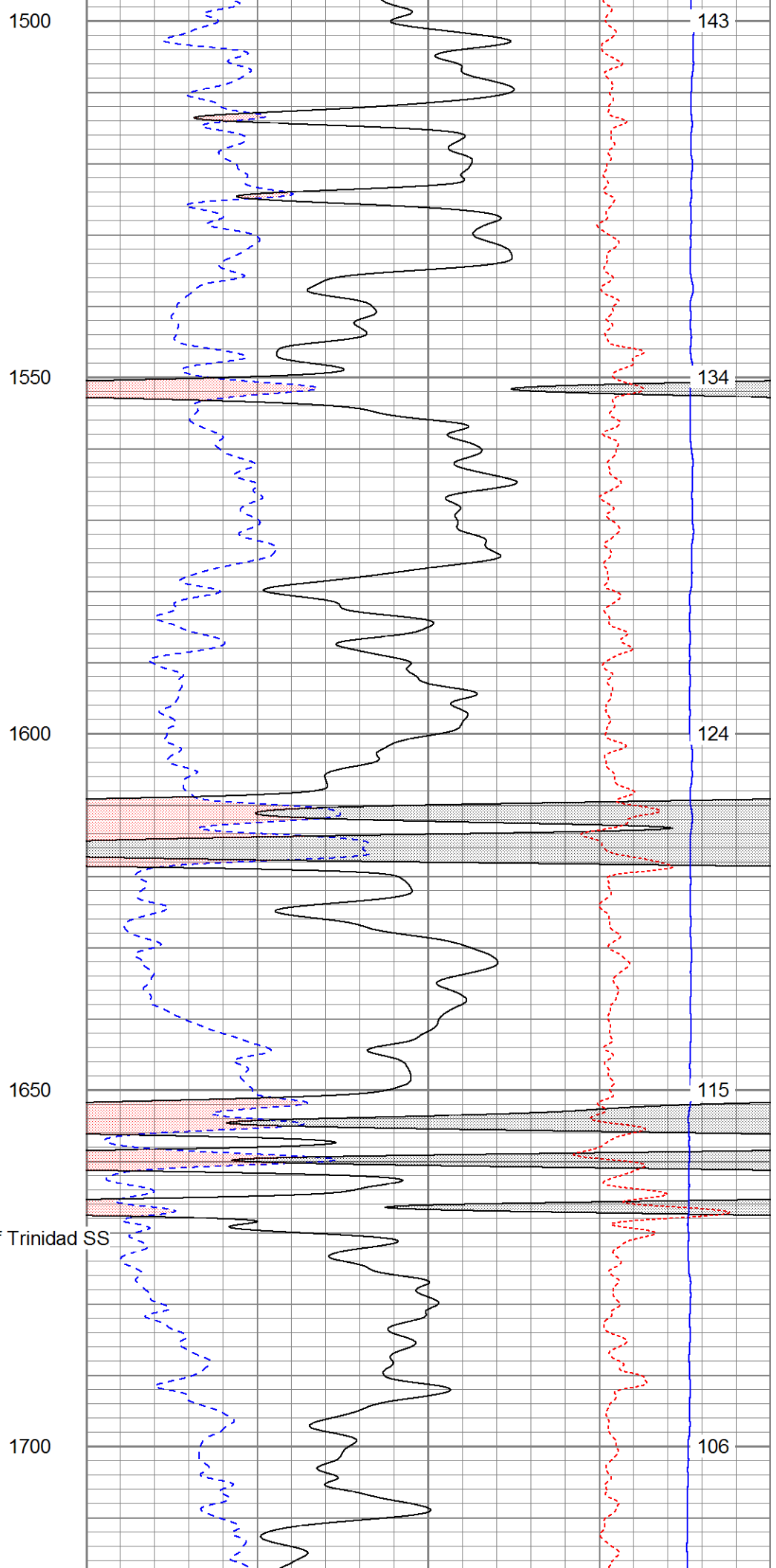
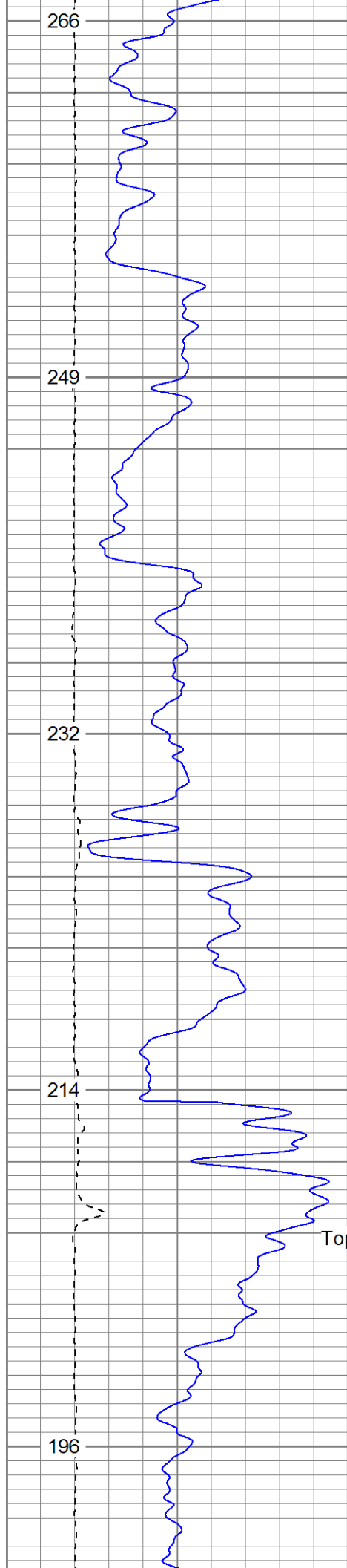


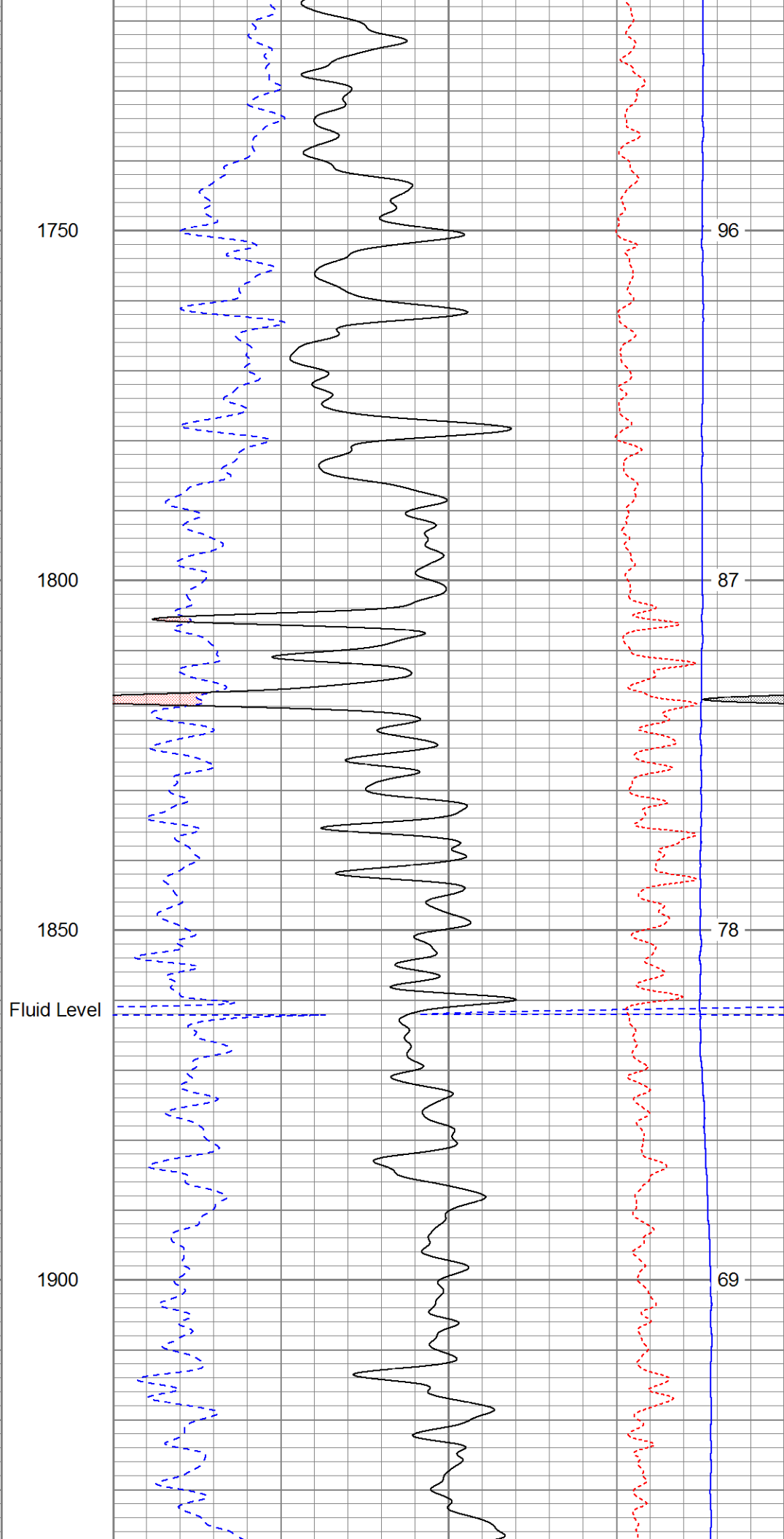
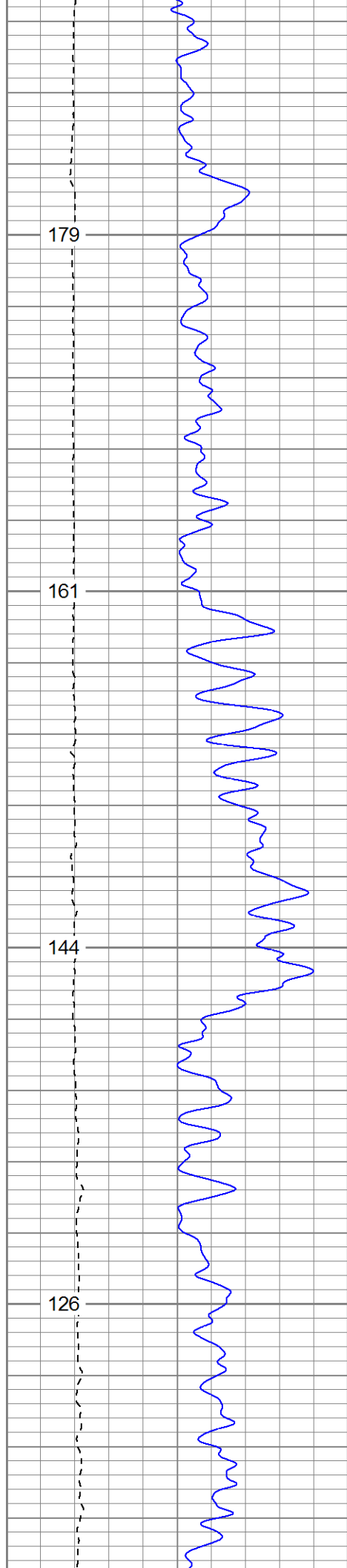


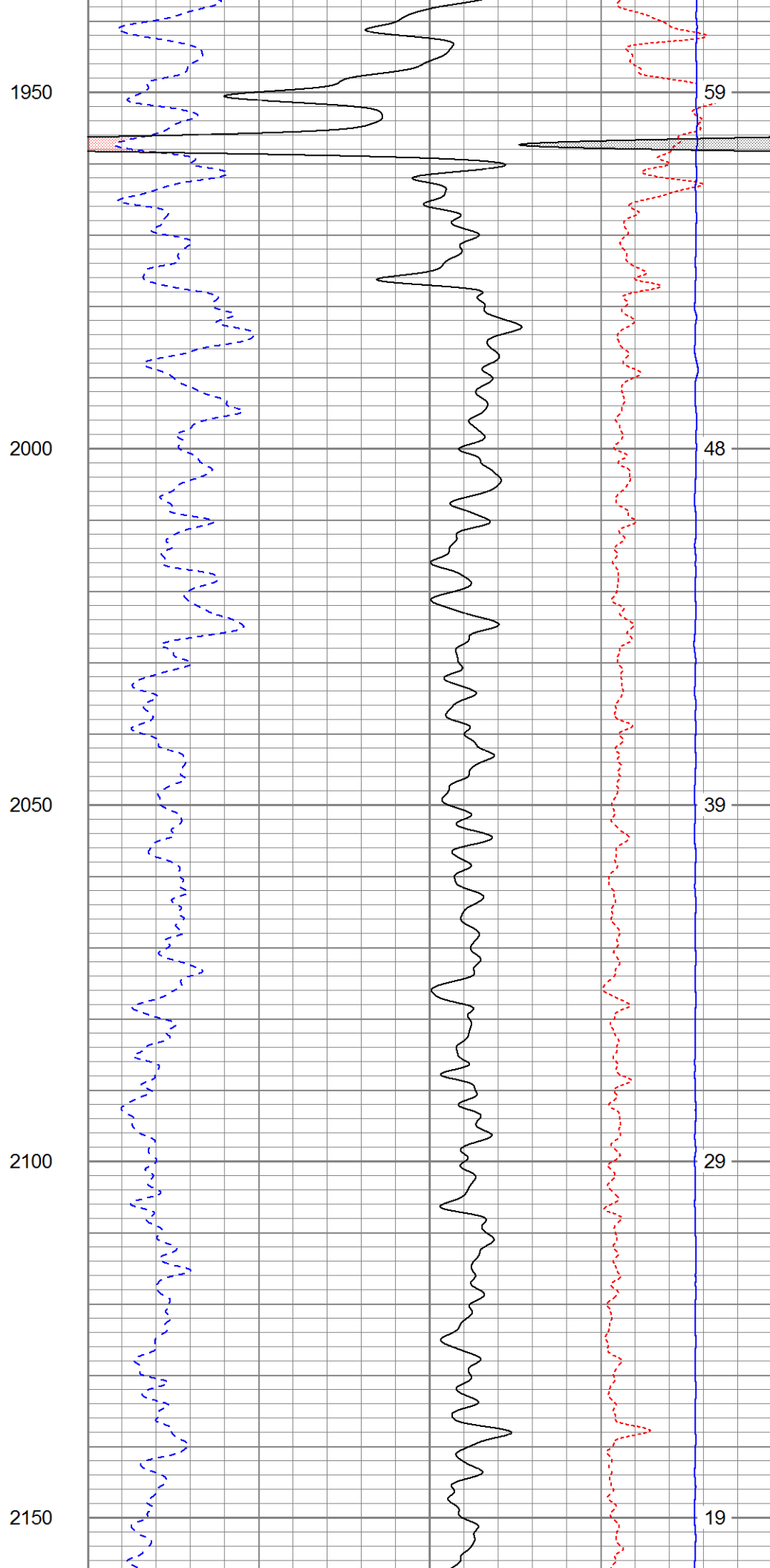
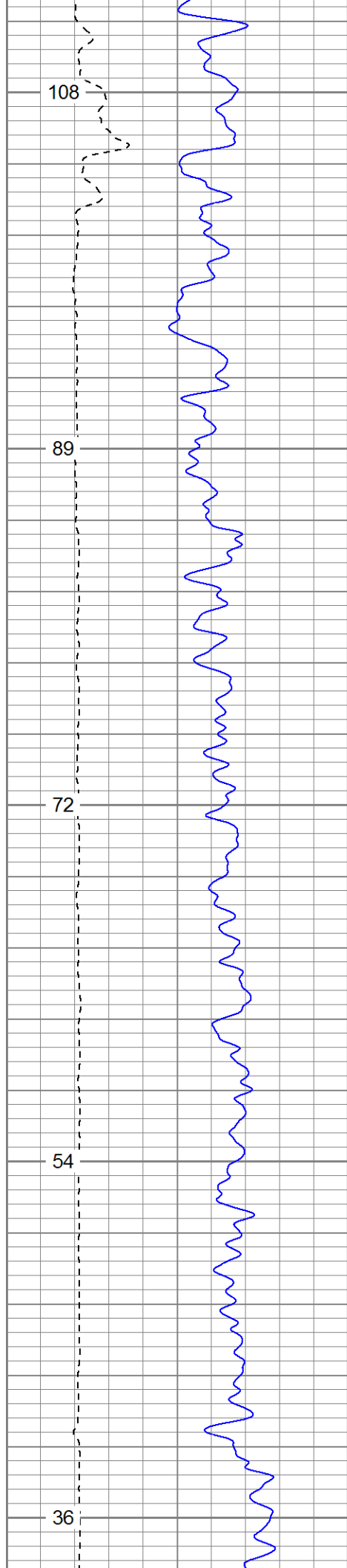
Top of Conglomerate

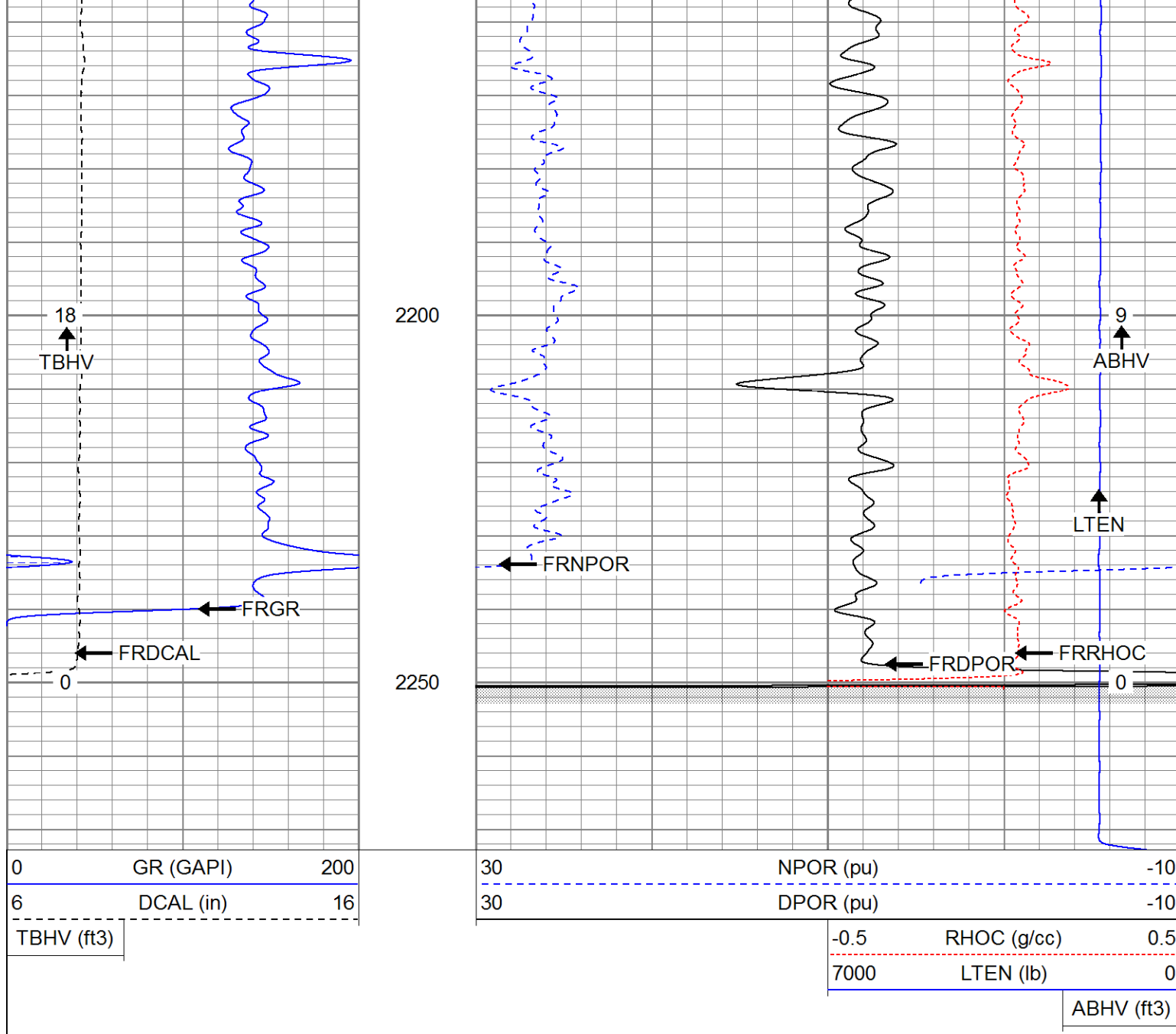












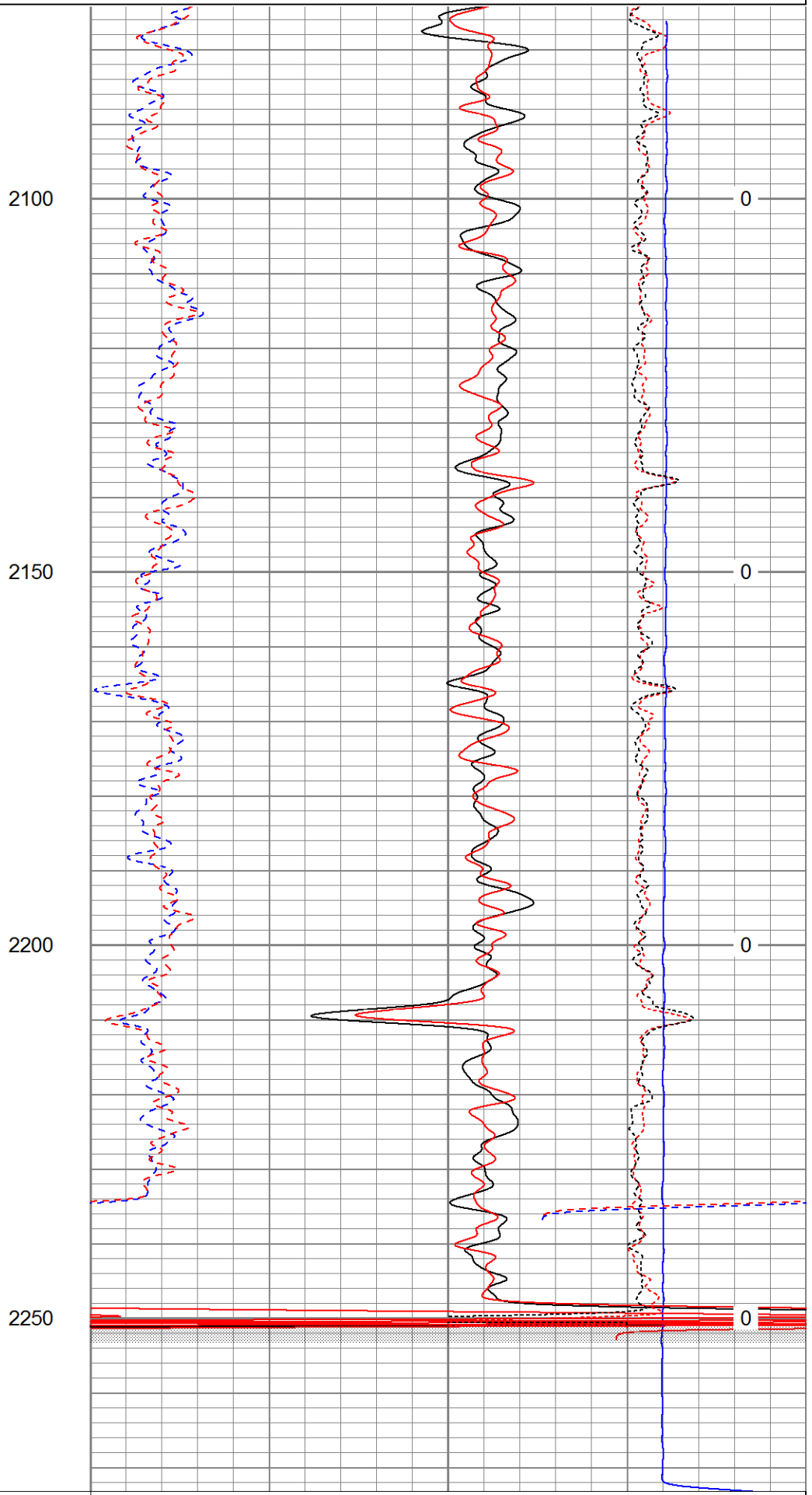
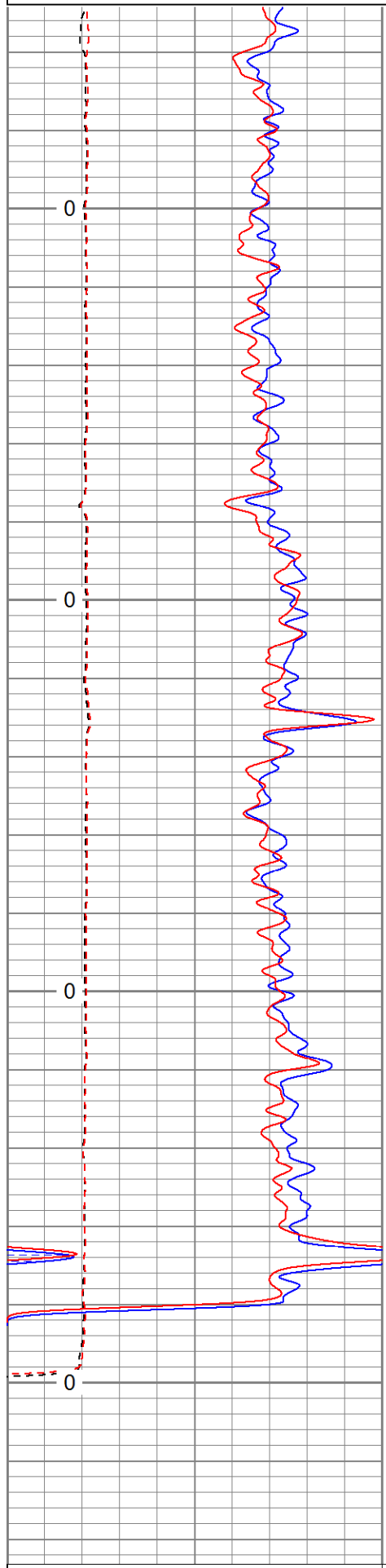
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Repeat Section

Database File: xtobr0112.db
Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Wed Mar 04 14:26:09 2009 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	30	NPOR (pu)	-10	-0.5	RHOC (g/cc)	0.5
6	DCAL (in)	16	30	DPOR (pu)	-10	4000	LTEN (lb)	0
0	GR-repeat (GAPI)	200	30	NPOR-repeat (pu)	-10	-0.5	RHOC-repeat (g/cc)	0.5
6	DCAL-repeat (in)	16	30	DPOR-repeat (pu)	-10			
TBHV (ft3)								



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

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

6	DCAL-repeat (in)	16	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)	



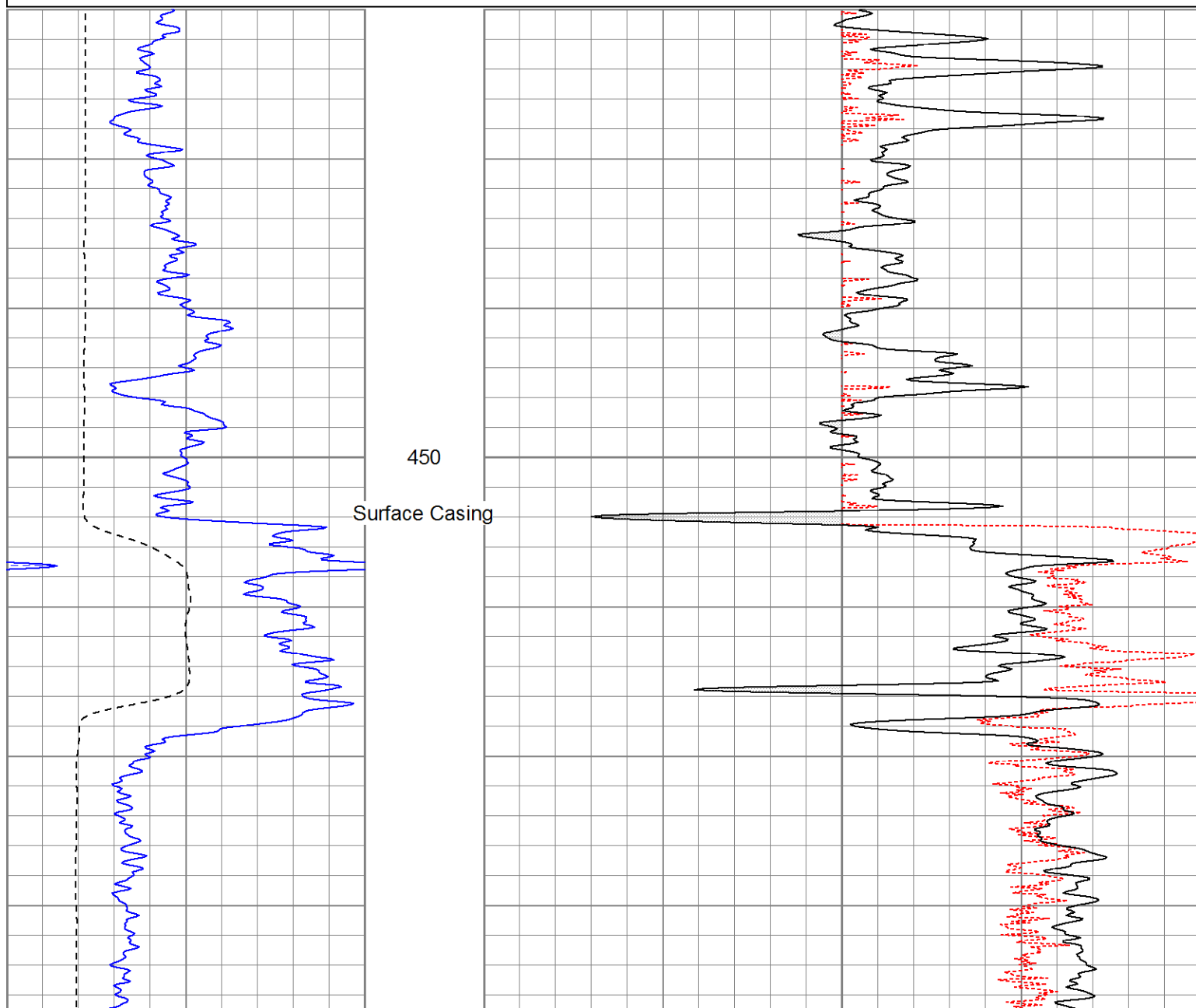
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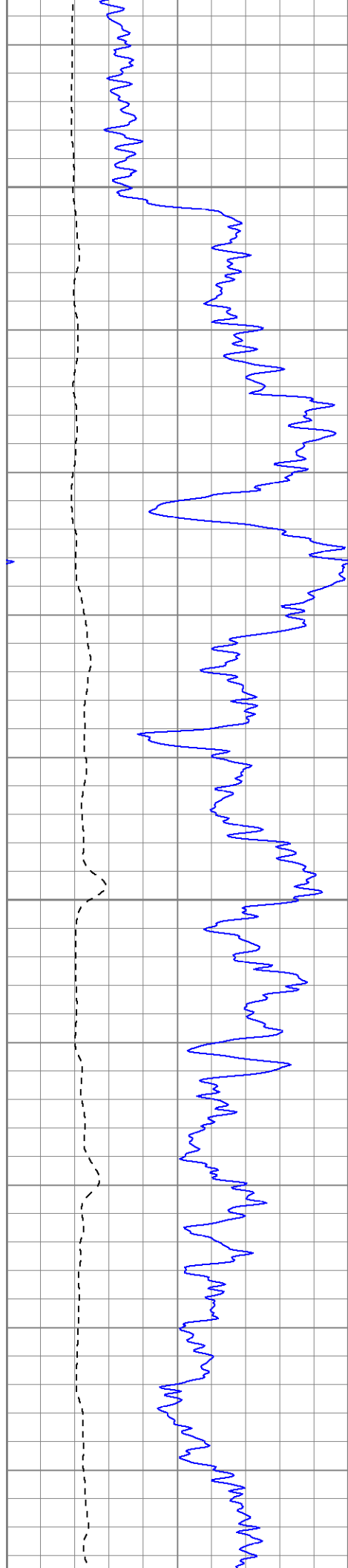
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High Resolution Pass

Database File: xtohr0112.db
Dataset Pathname: pass2.3
Presentation Format: cdlhr
Dataset Creation: Thu Mar 05 08:01:29 2009 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:120

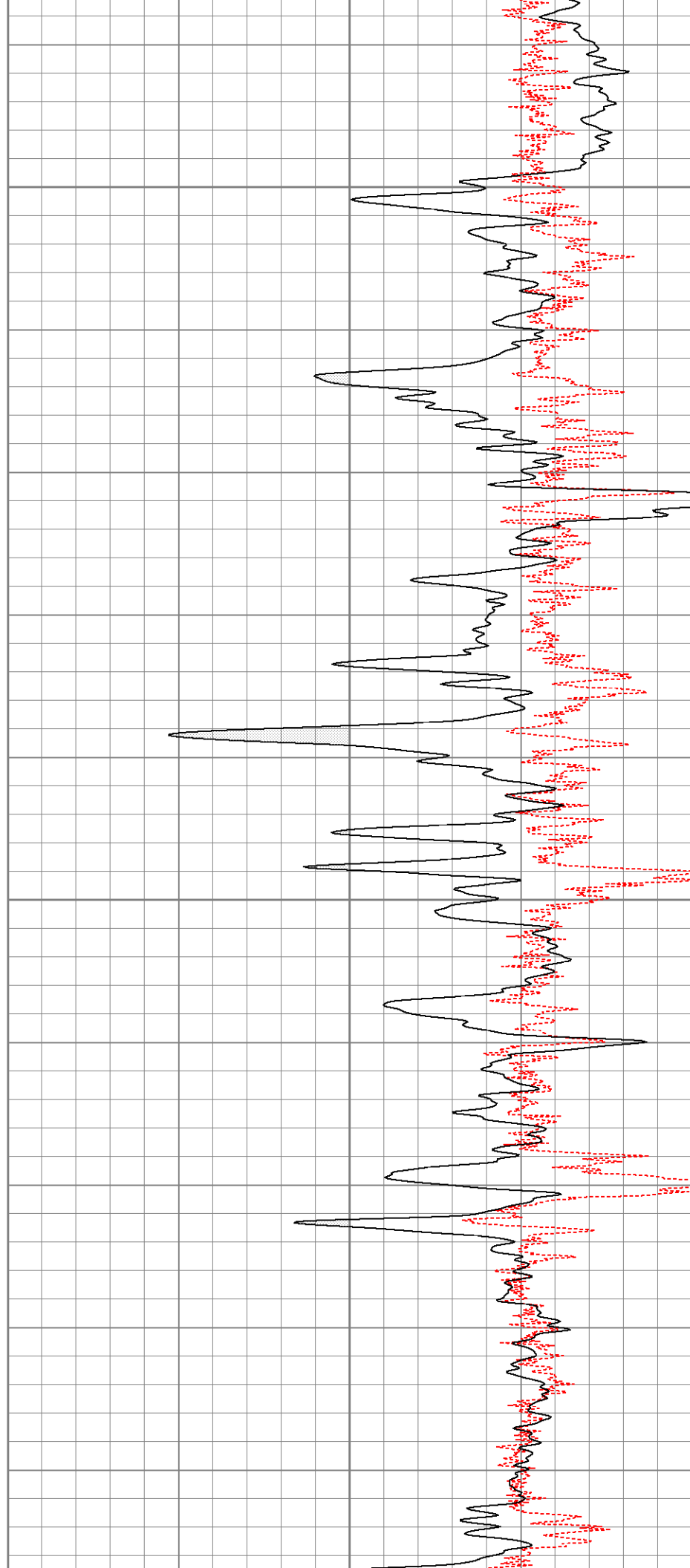
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6	DCAL (in)	16		-0.5	RHOC (g/cc)	0.5





500

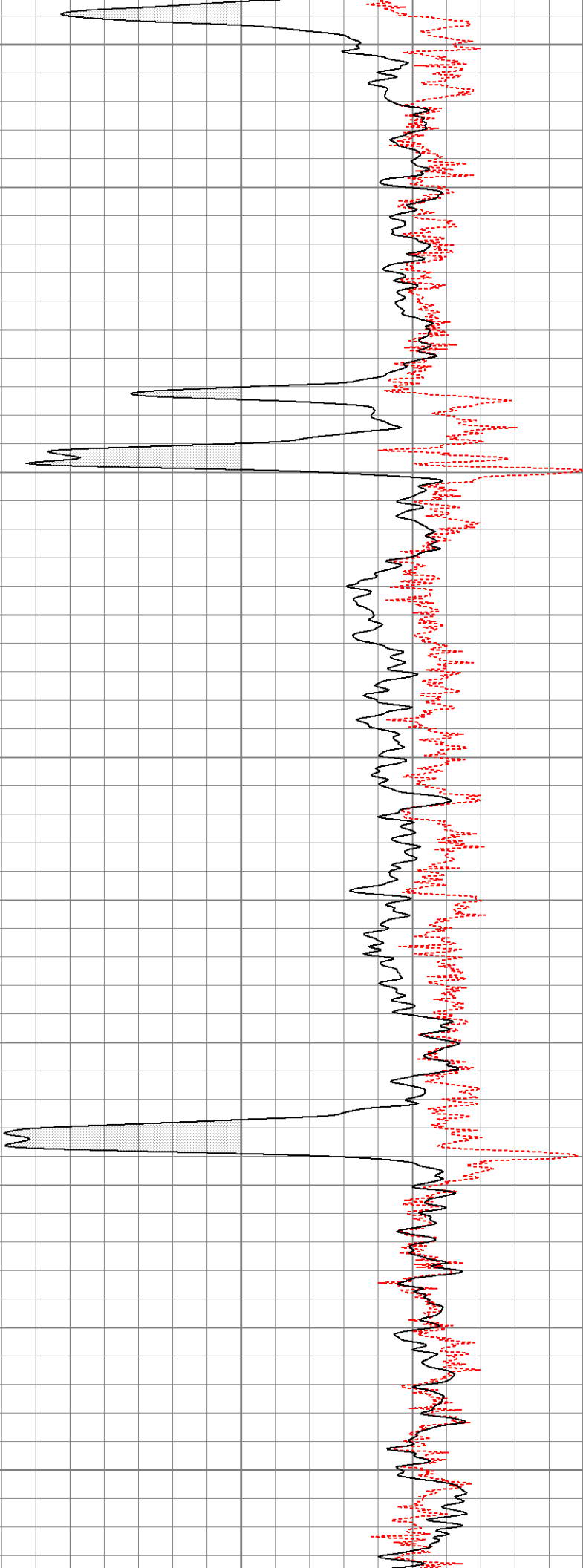
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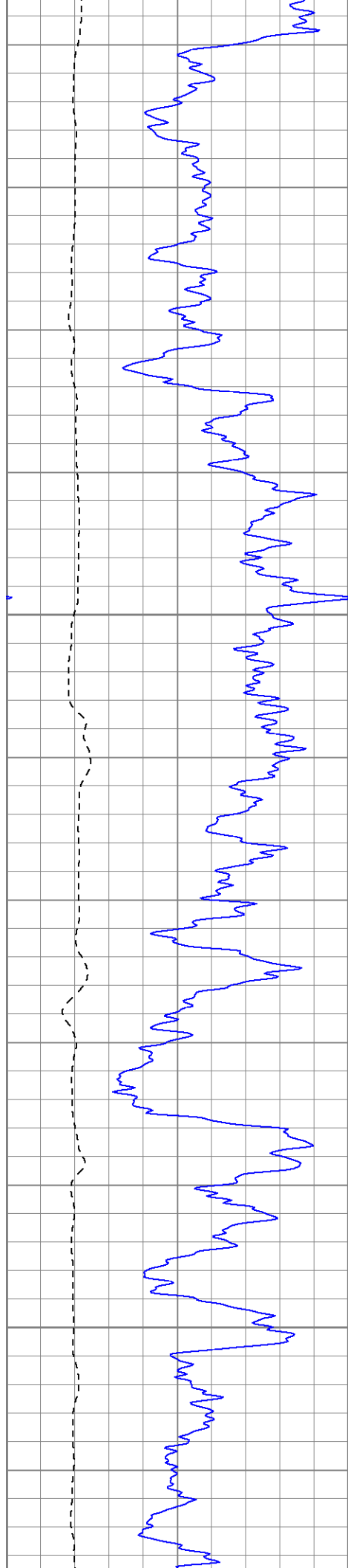


600

650

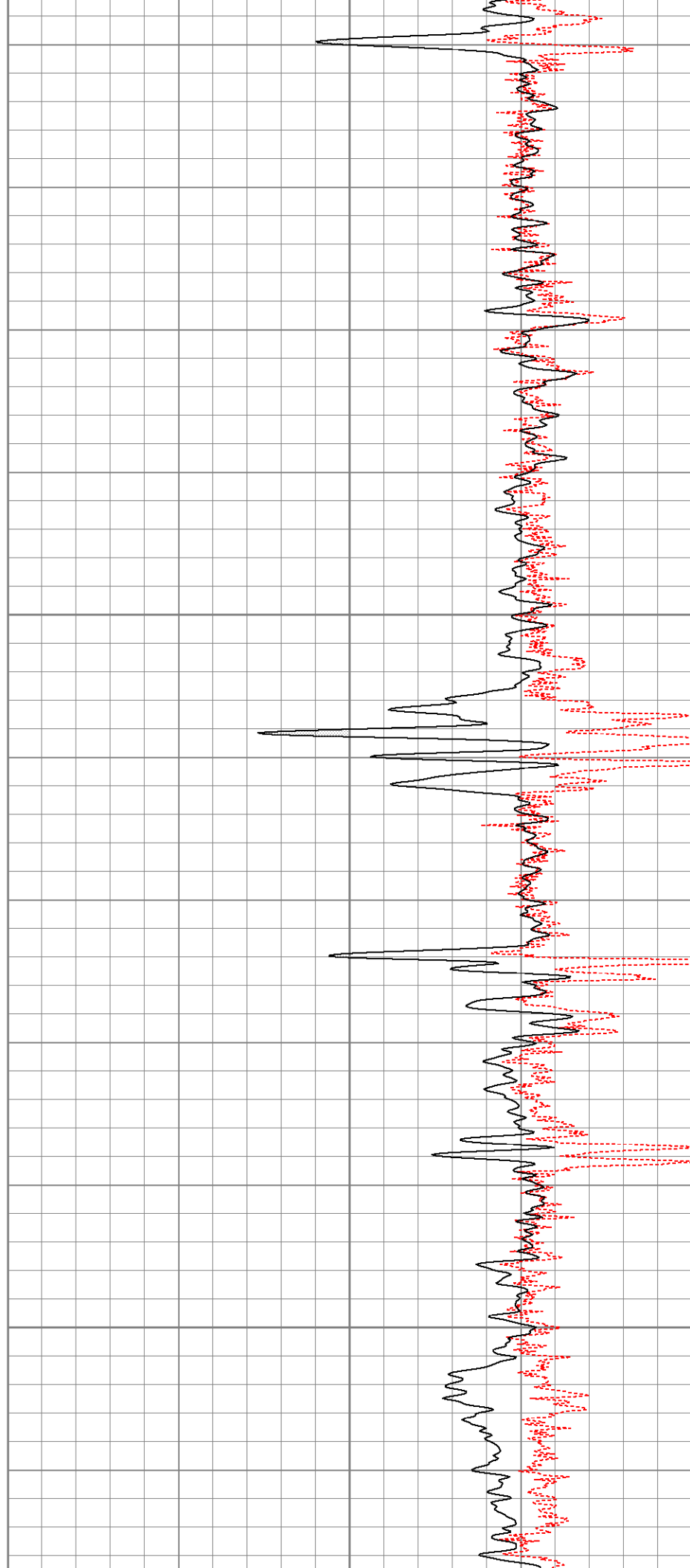
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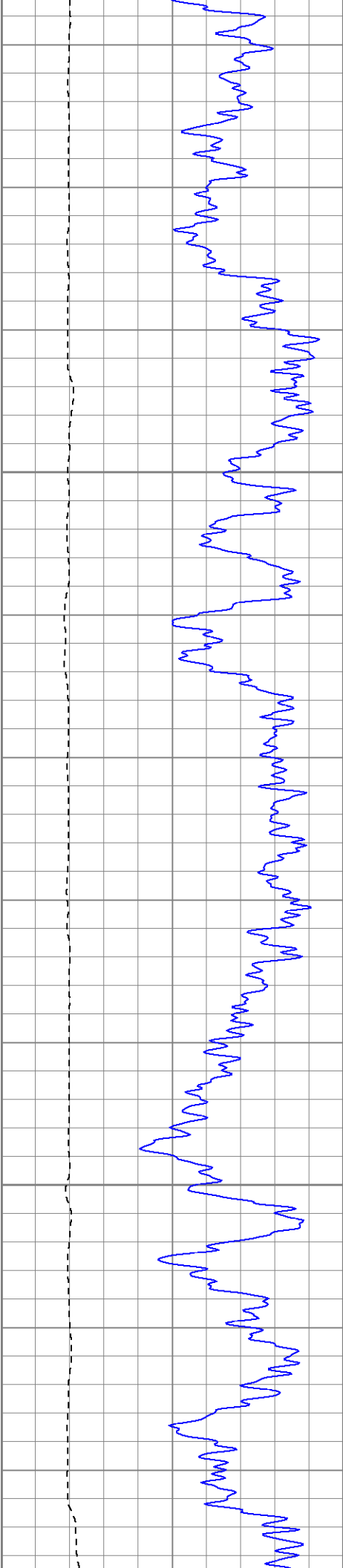




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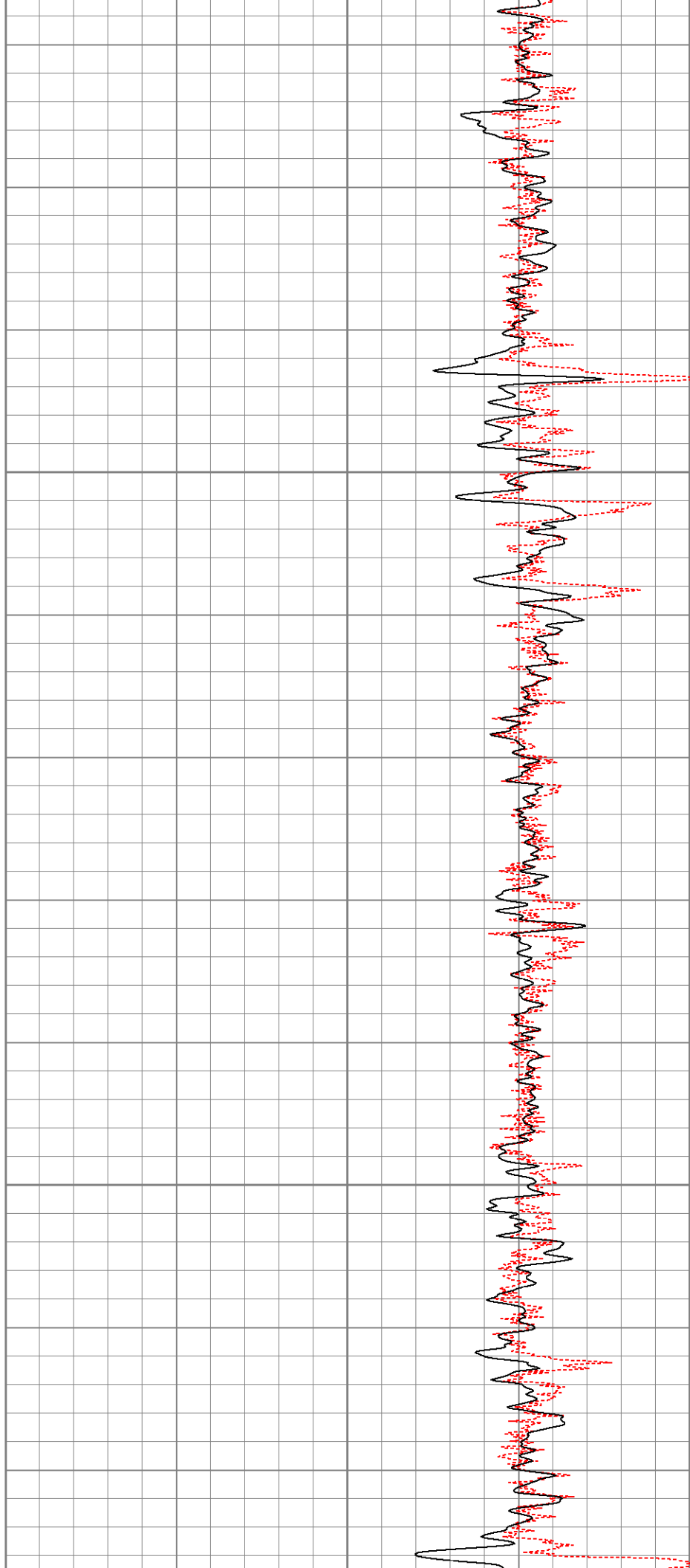
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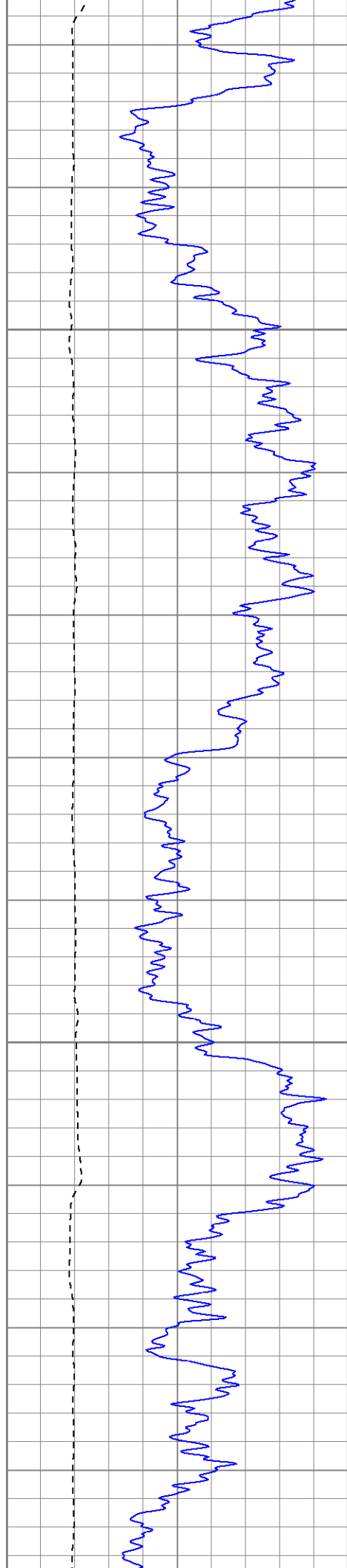




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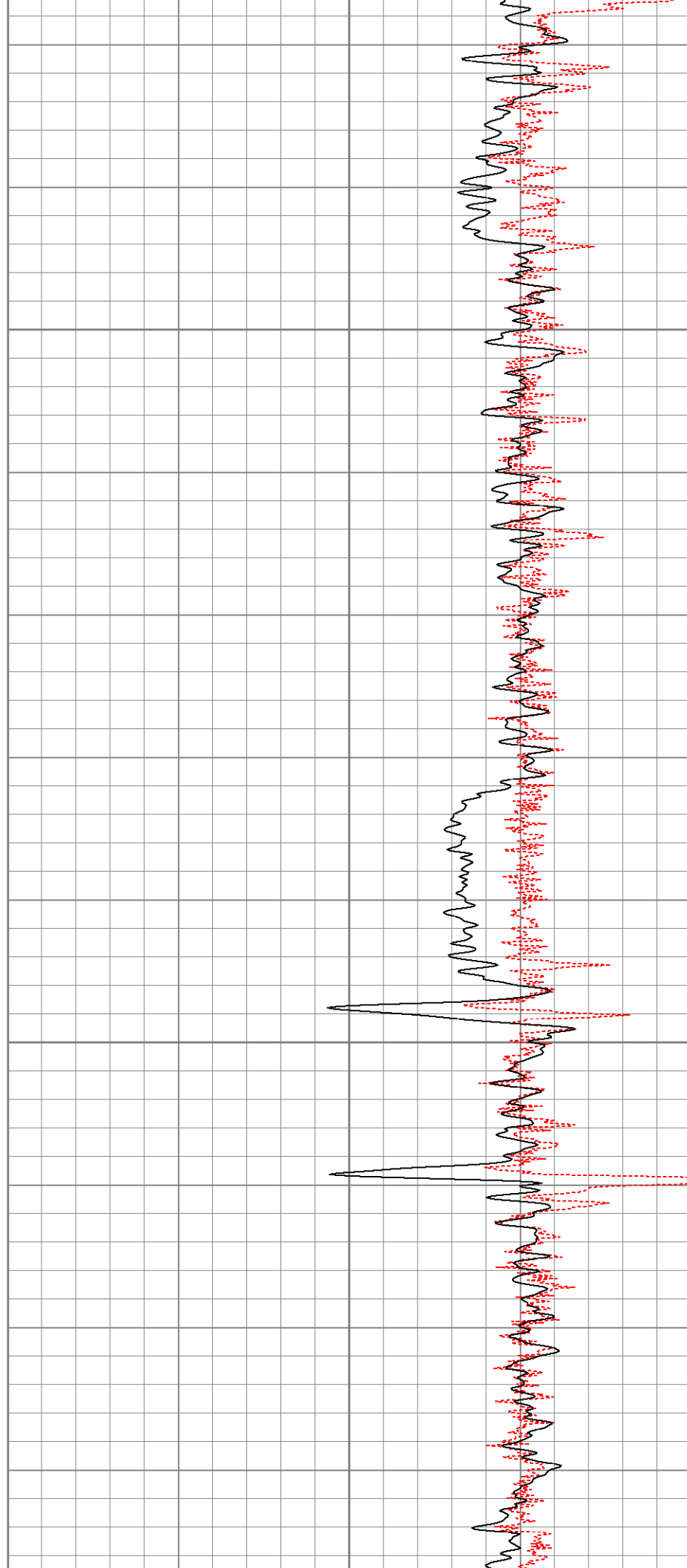
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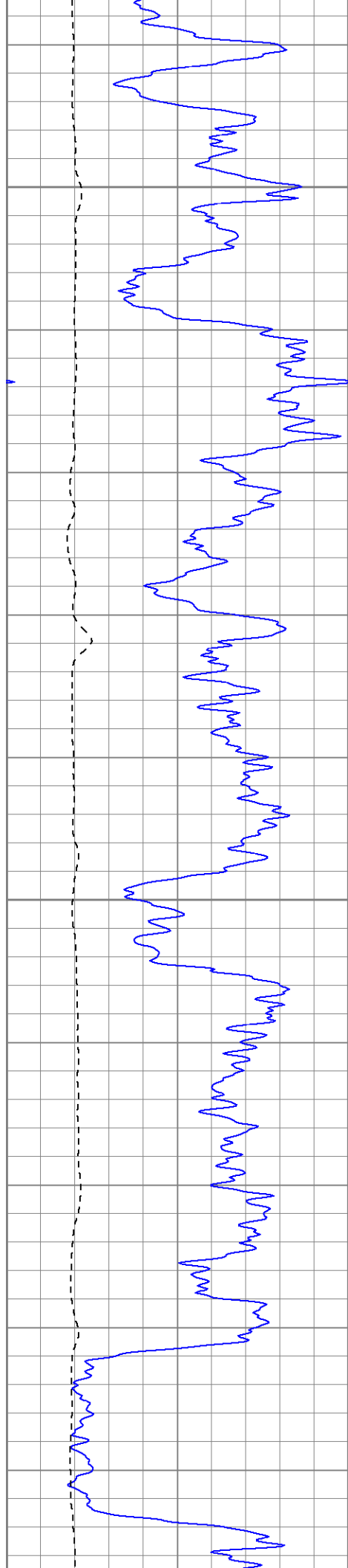




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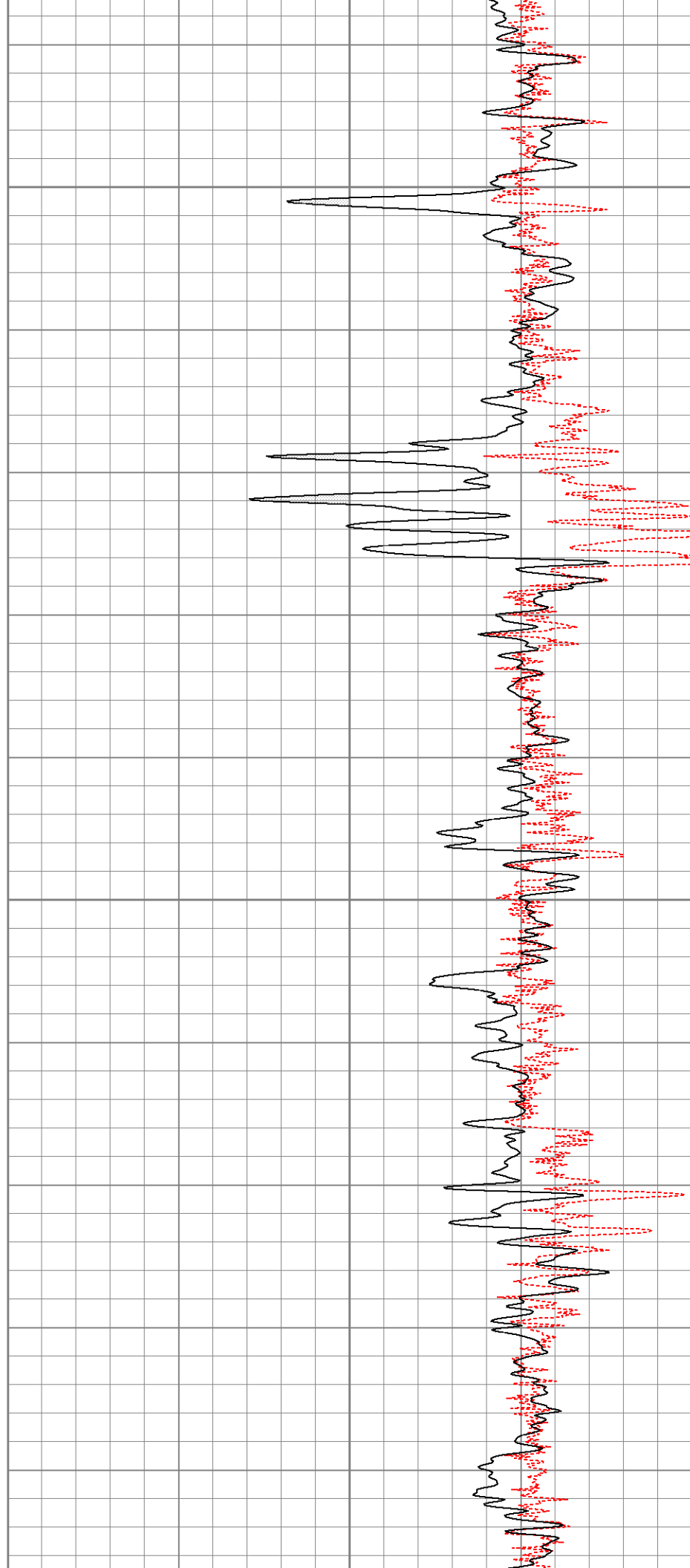
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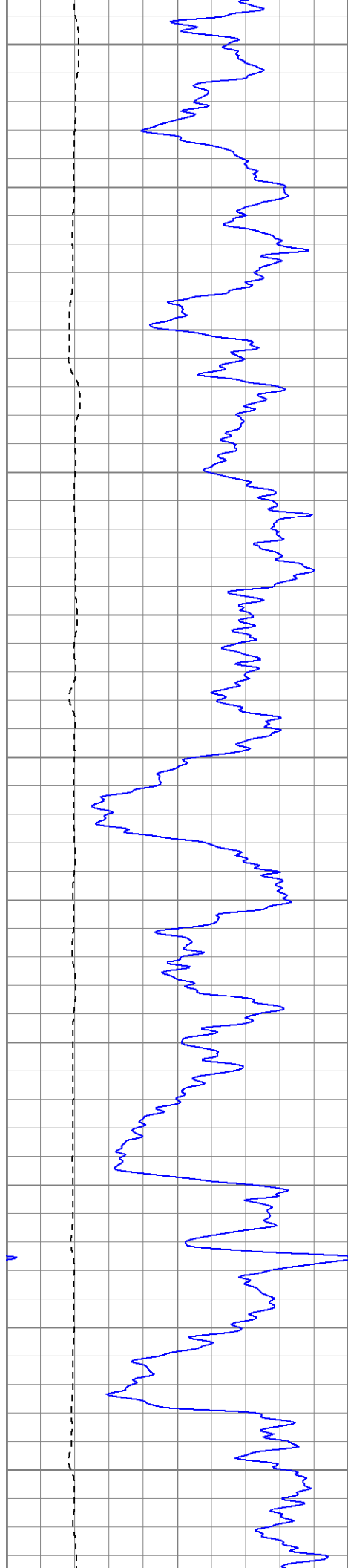




1050

1100

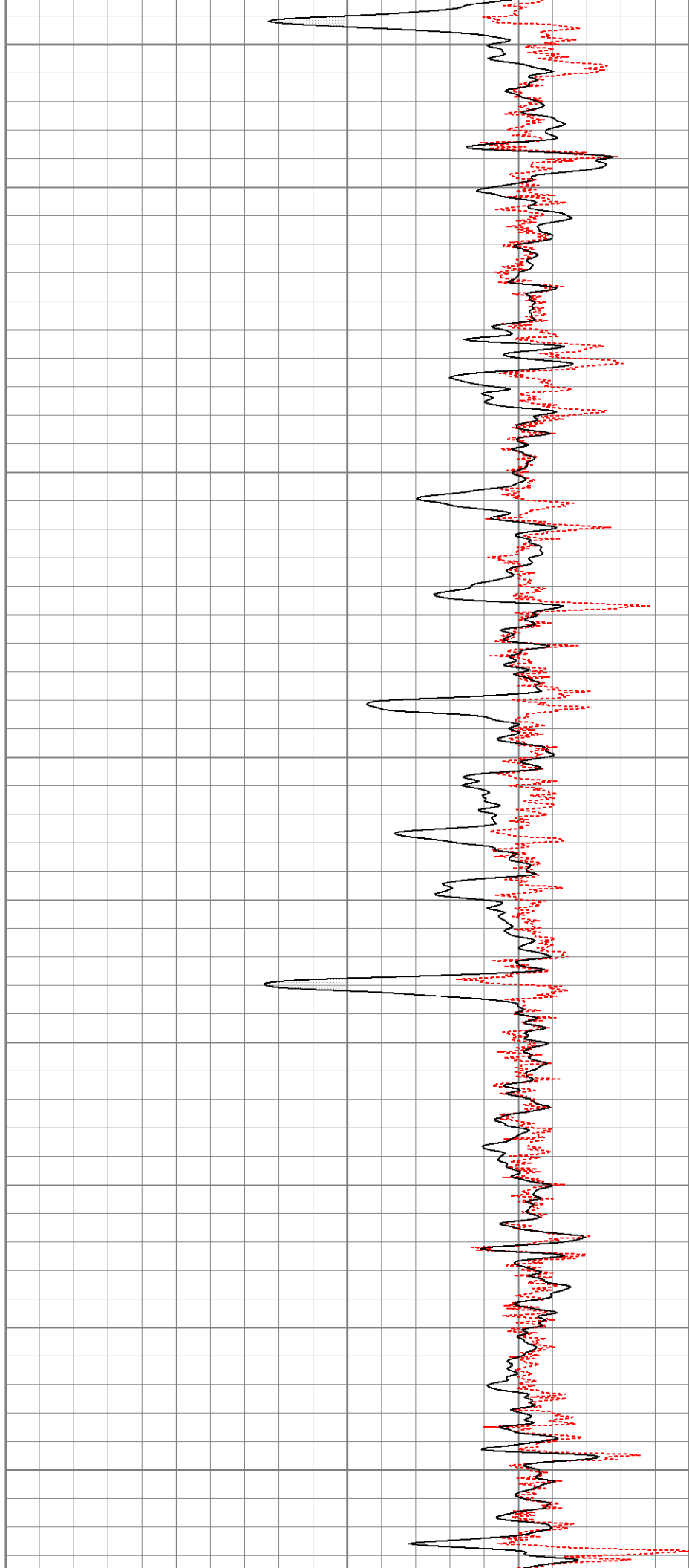


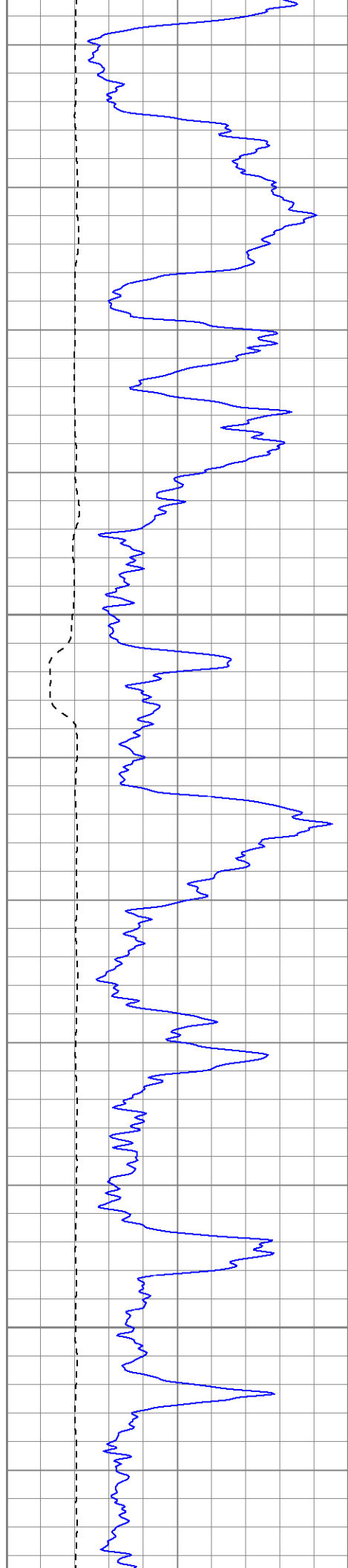


1150

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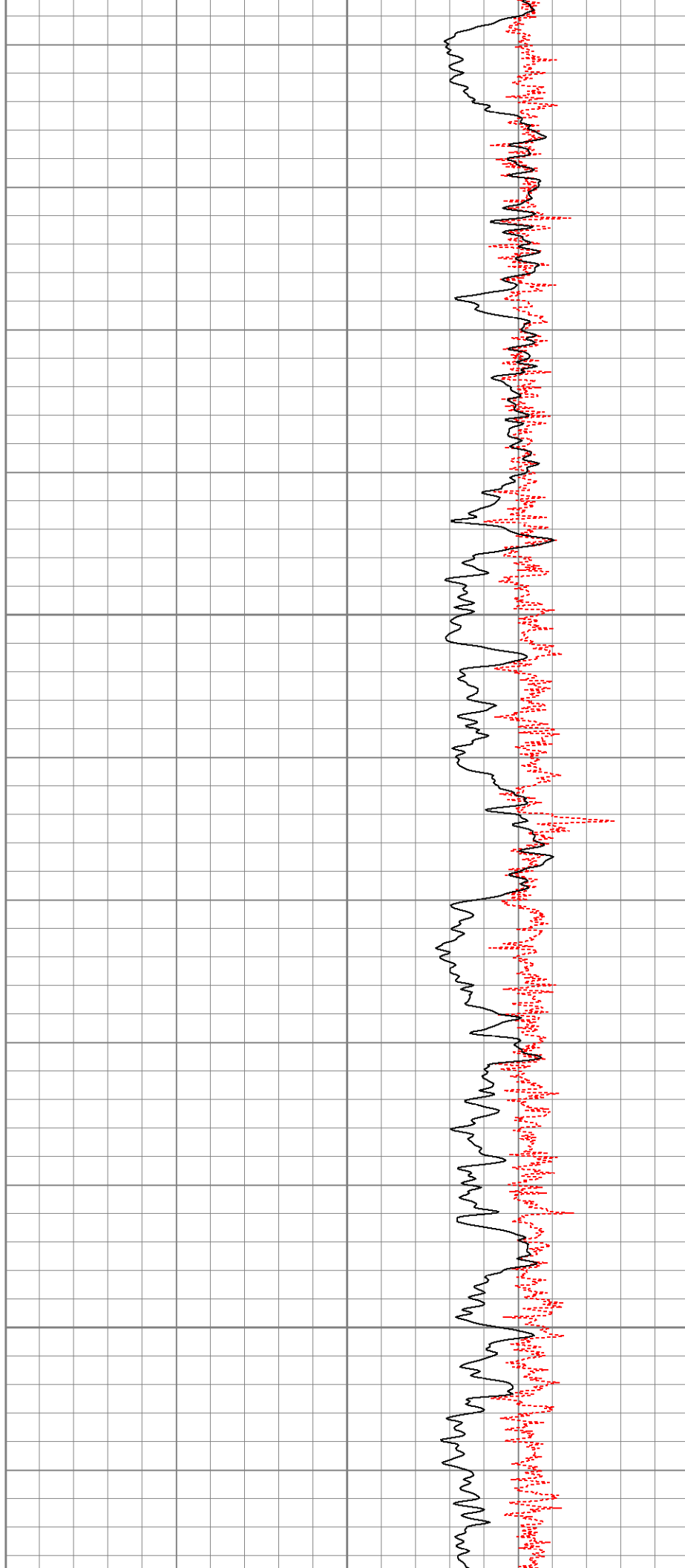
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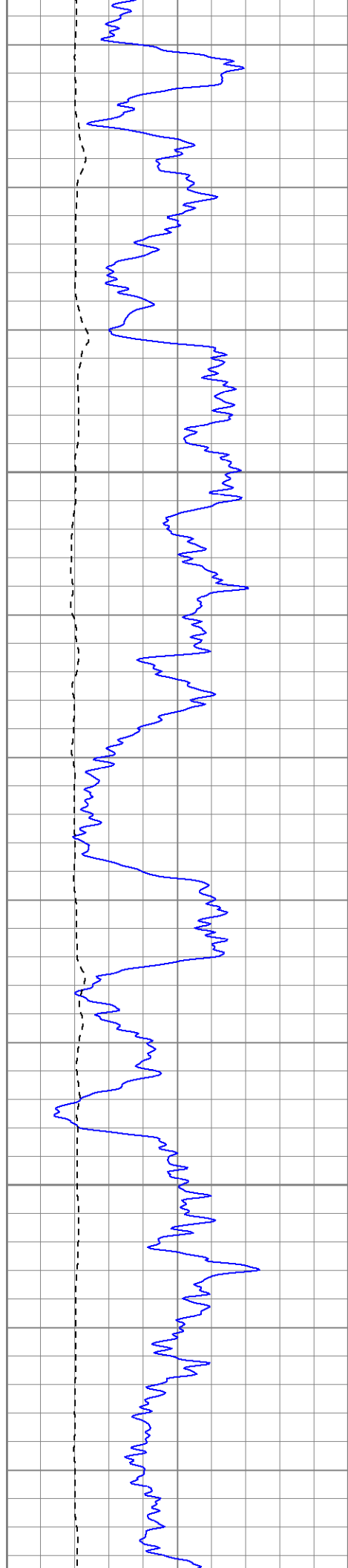




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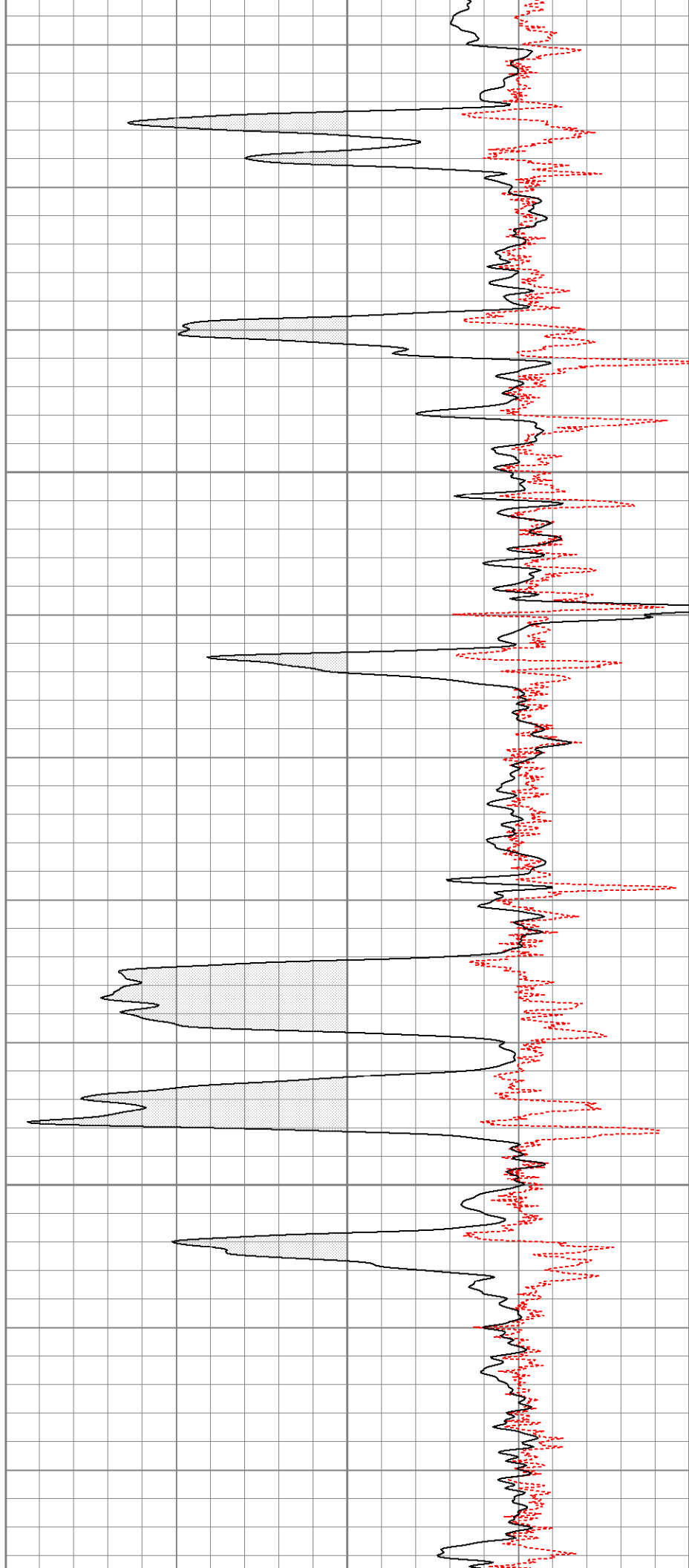
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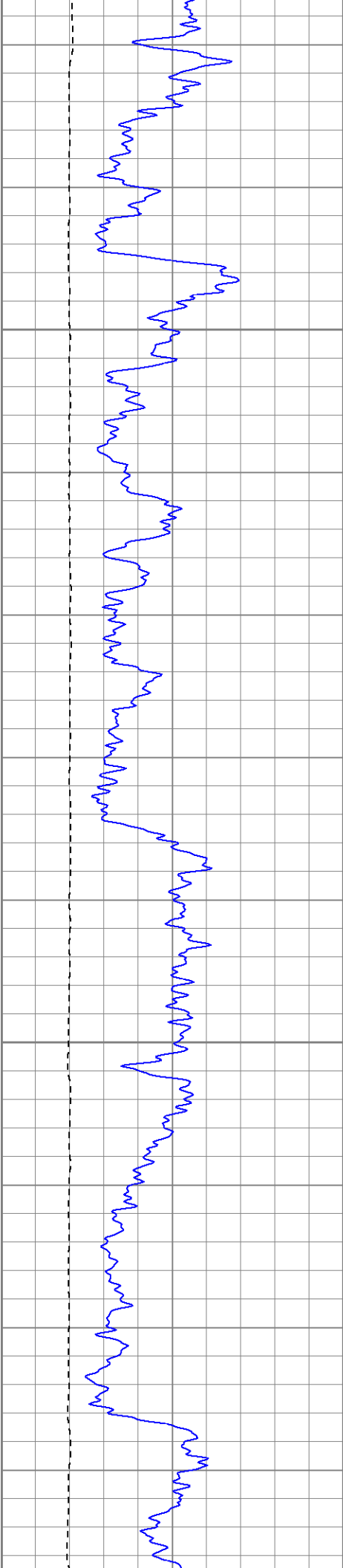




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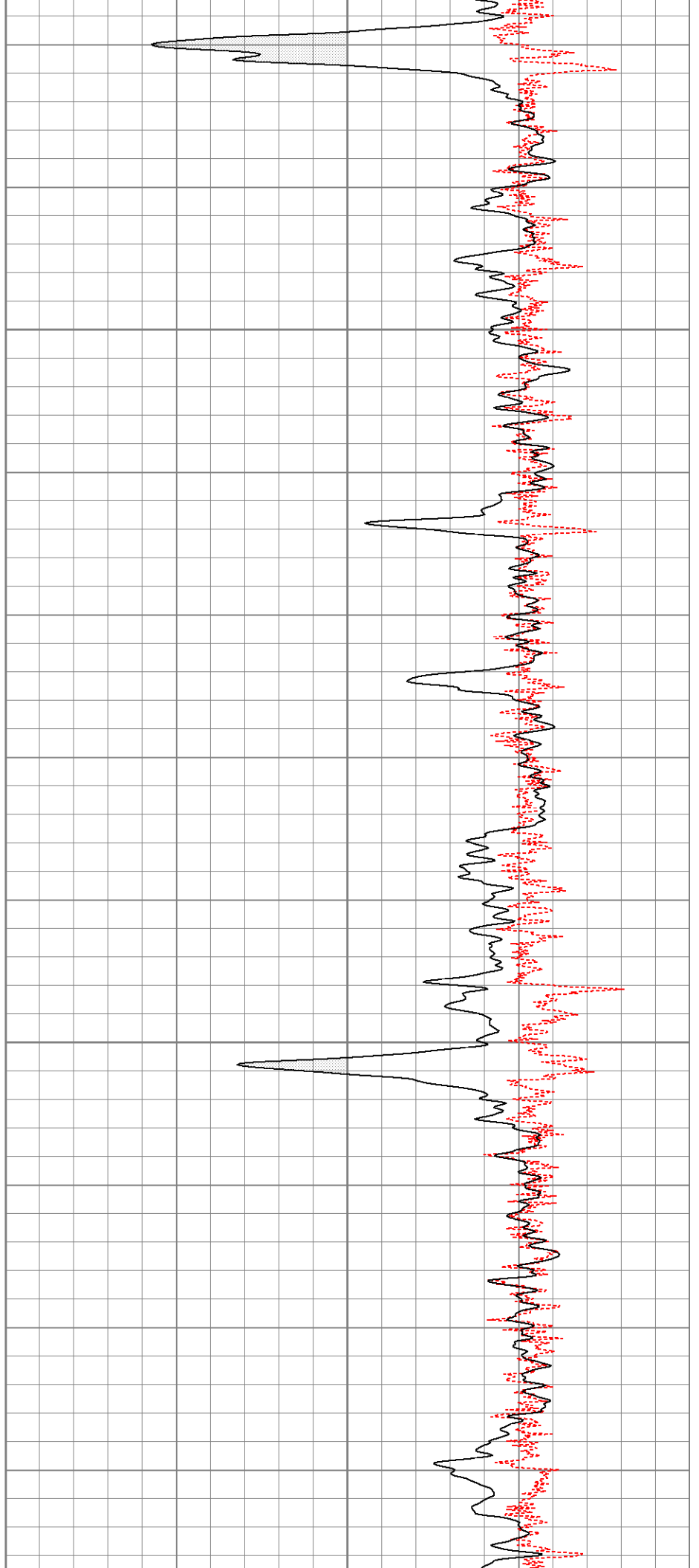
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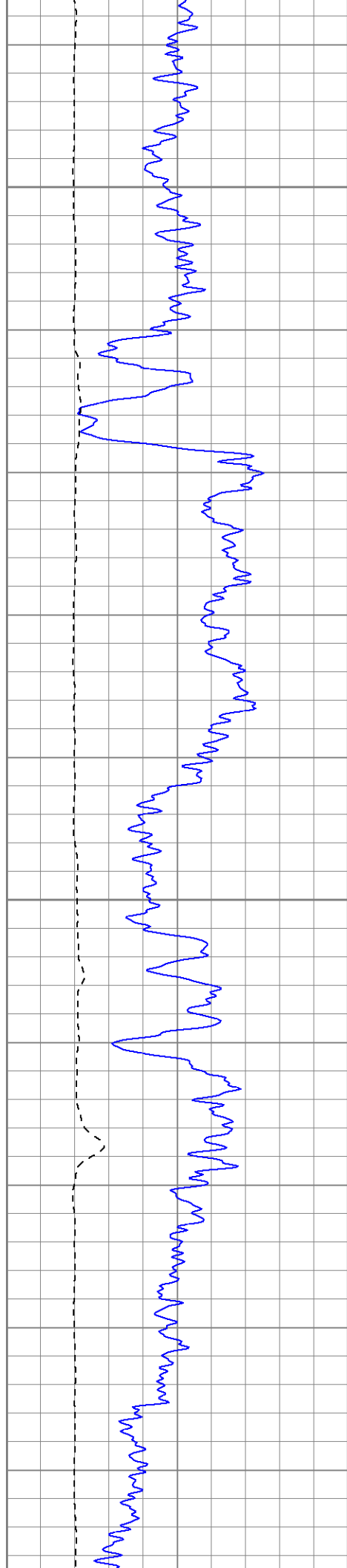




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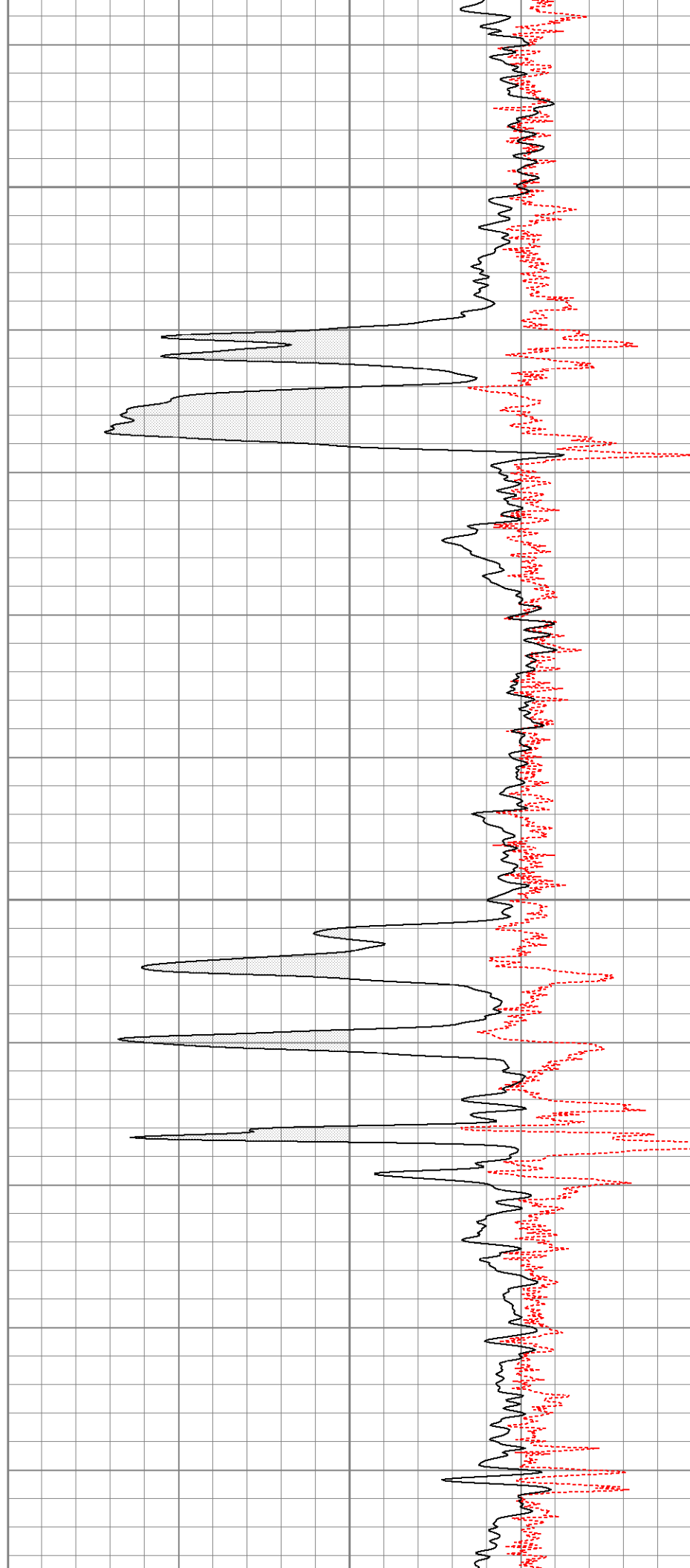
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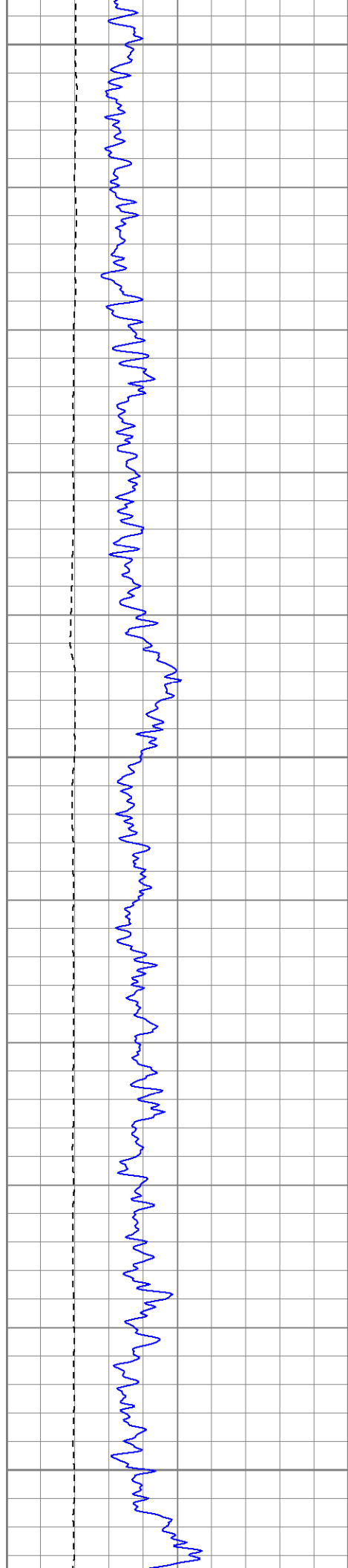




1600

1650

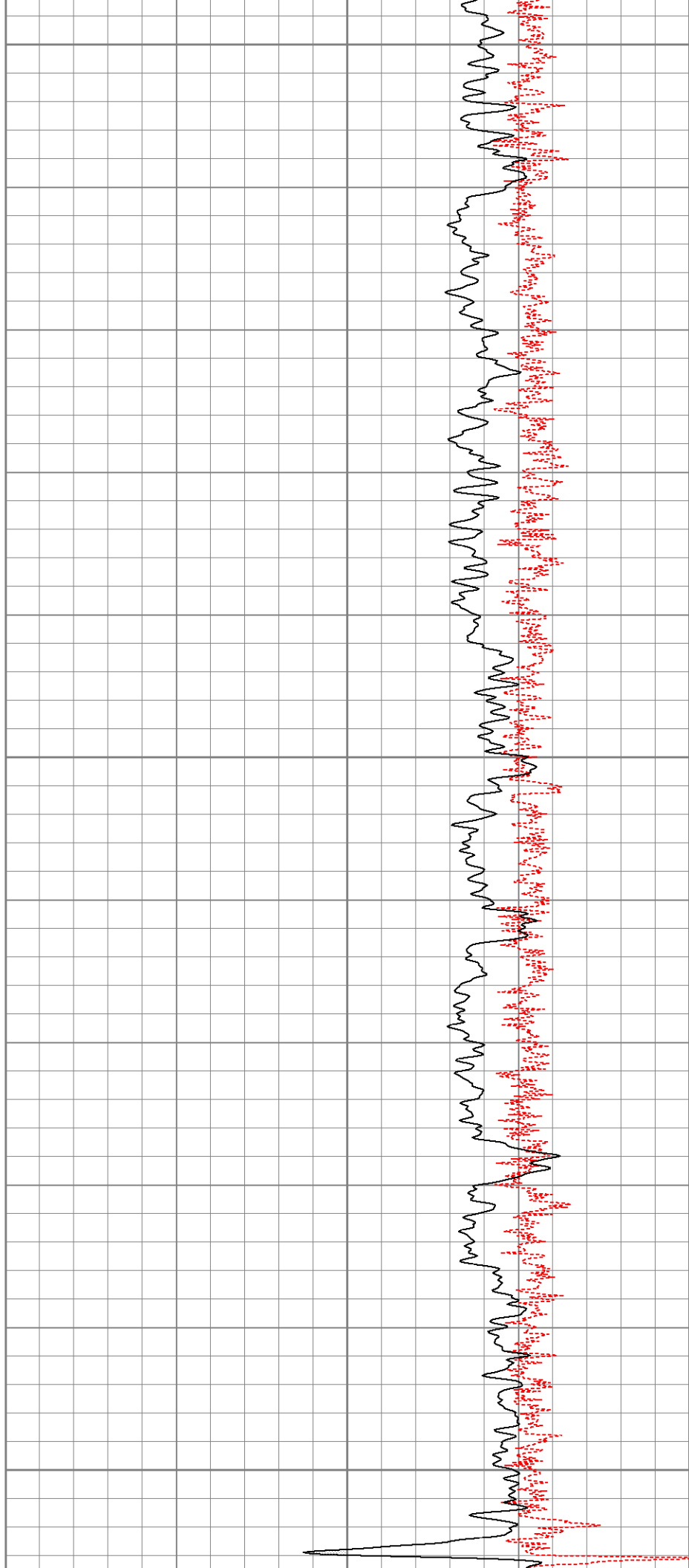


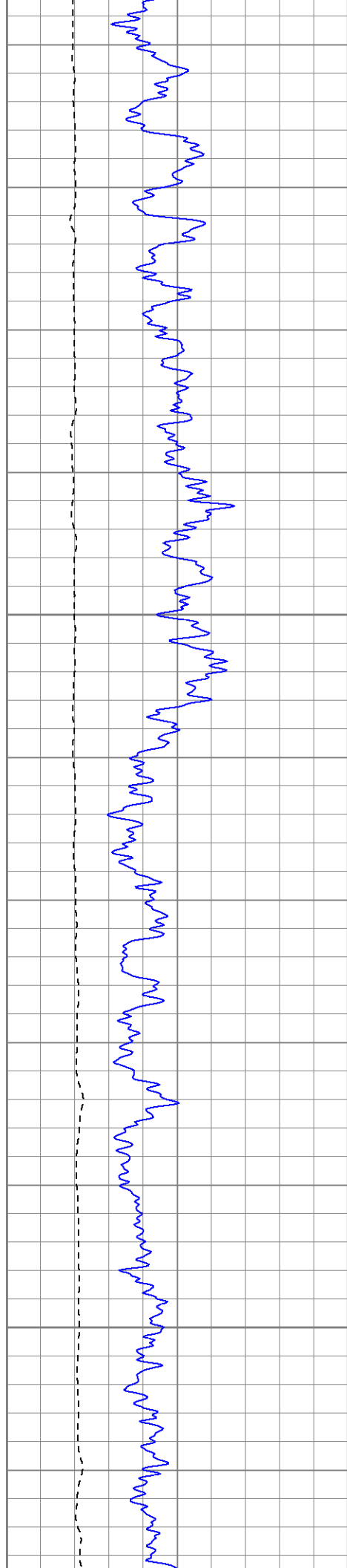


1700

1750

1800

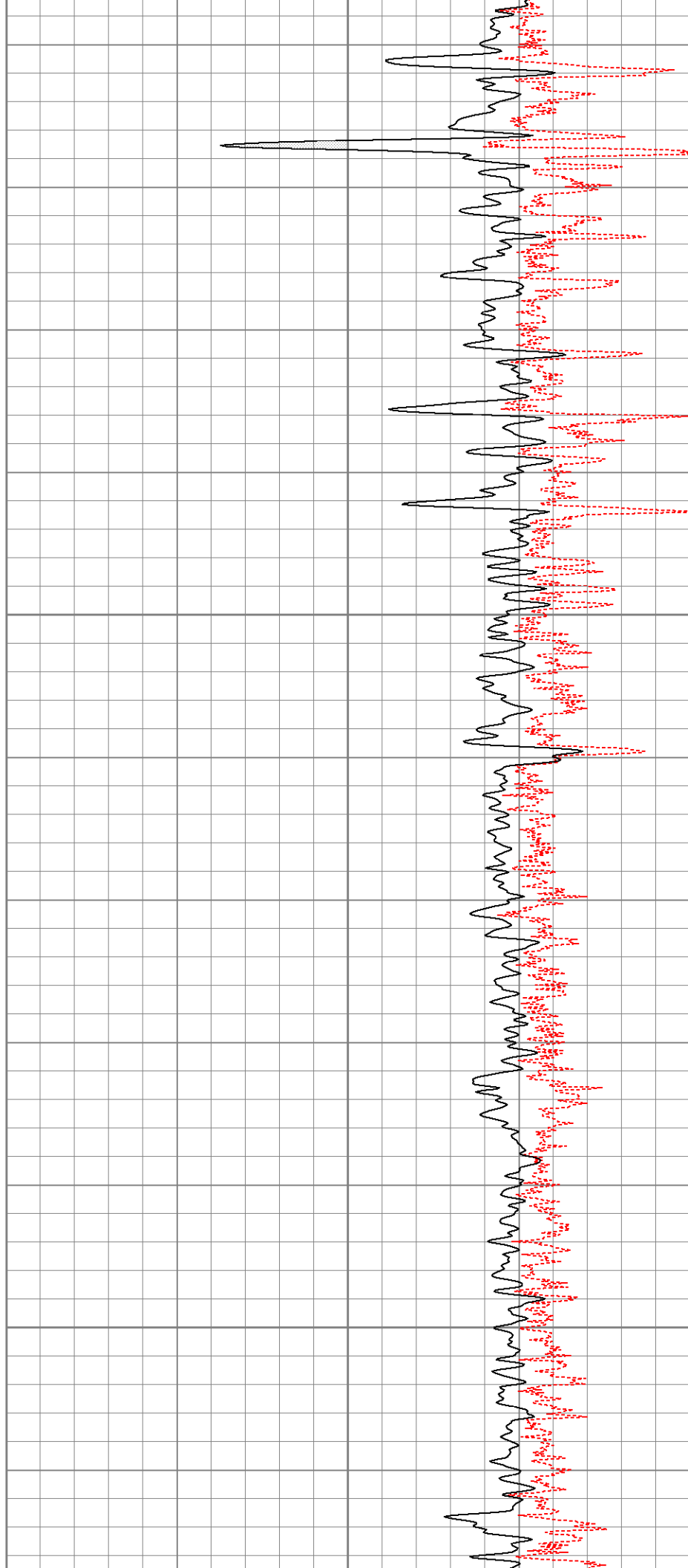


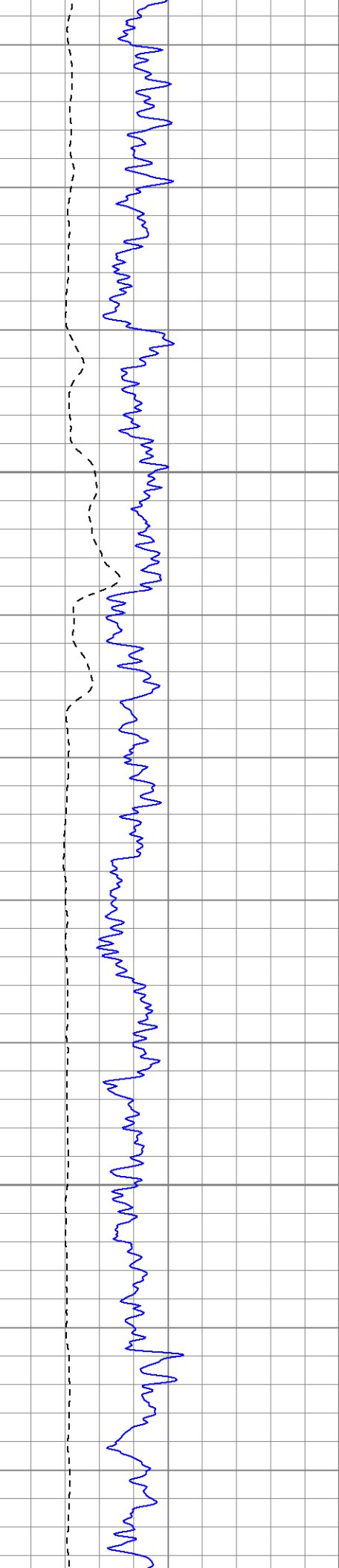


1850

Fluid Level

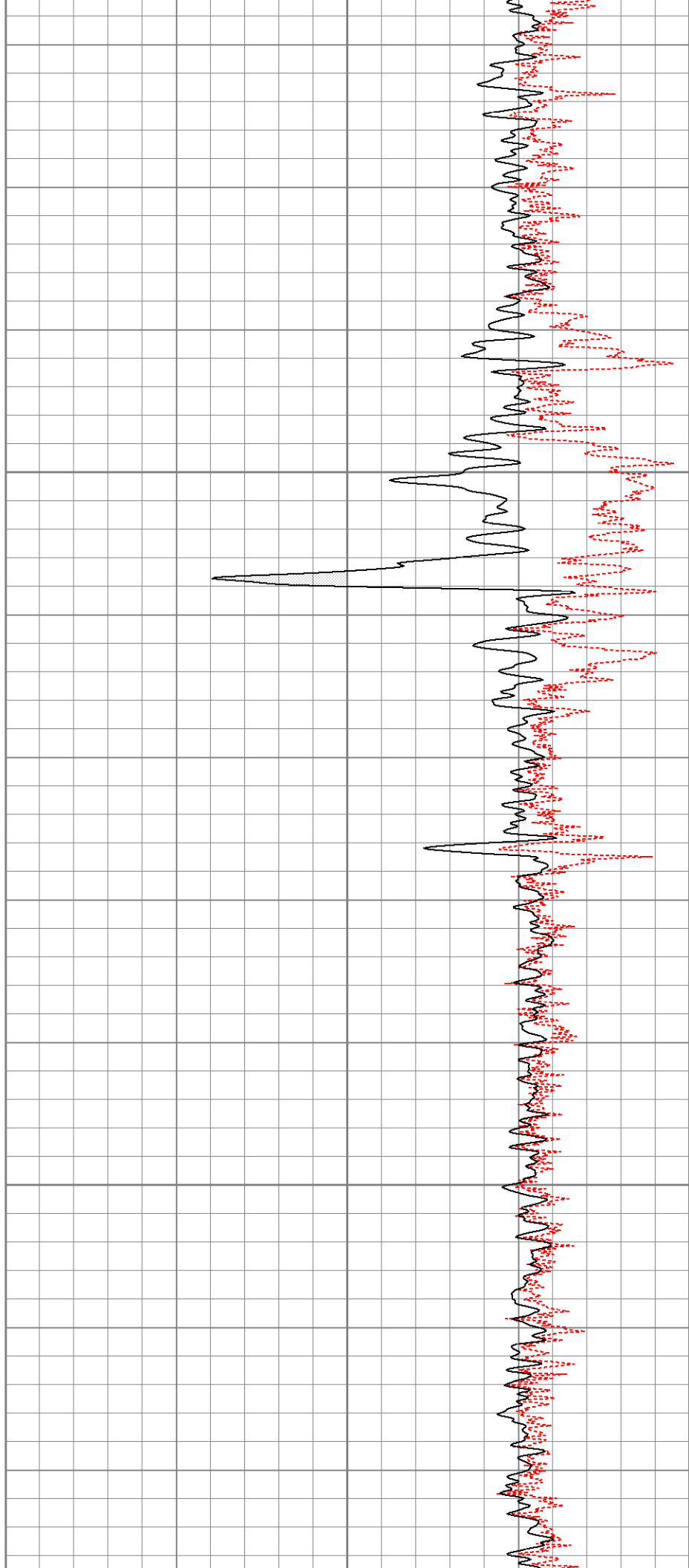
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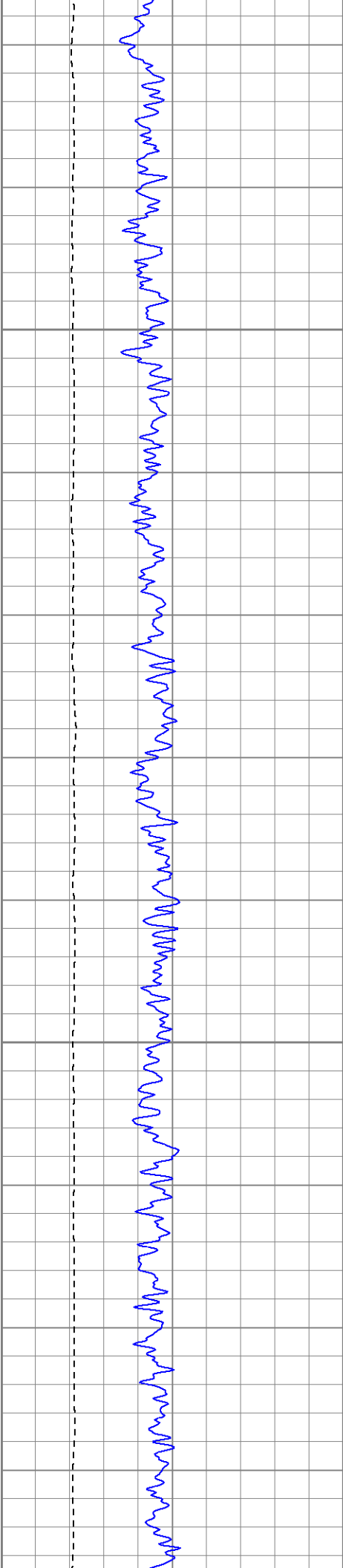




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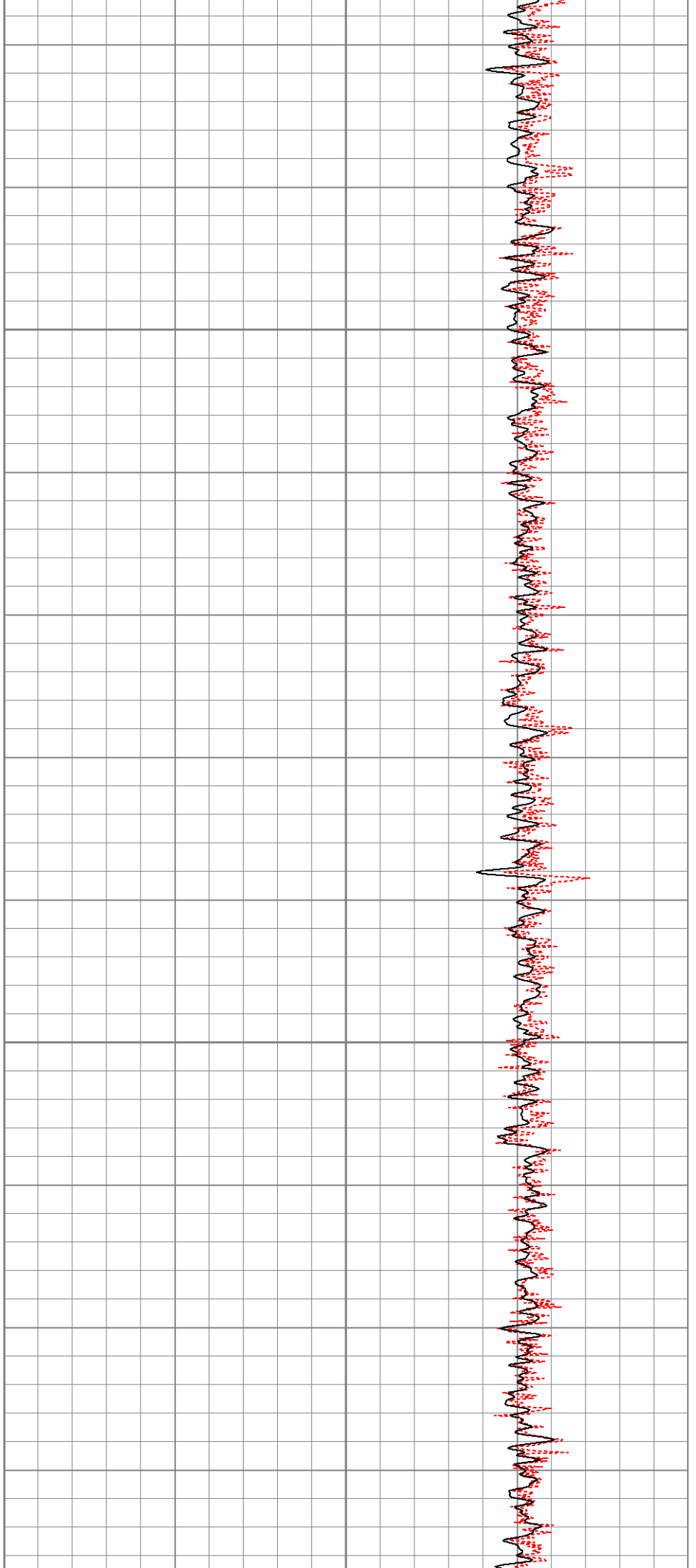
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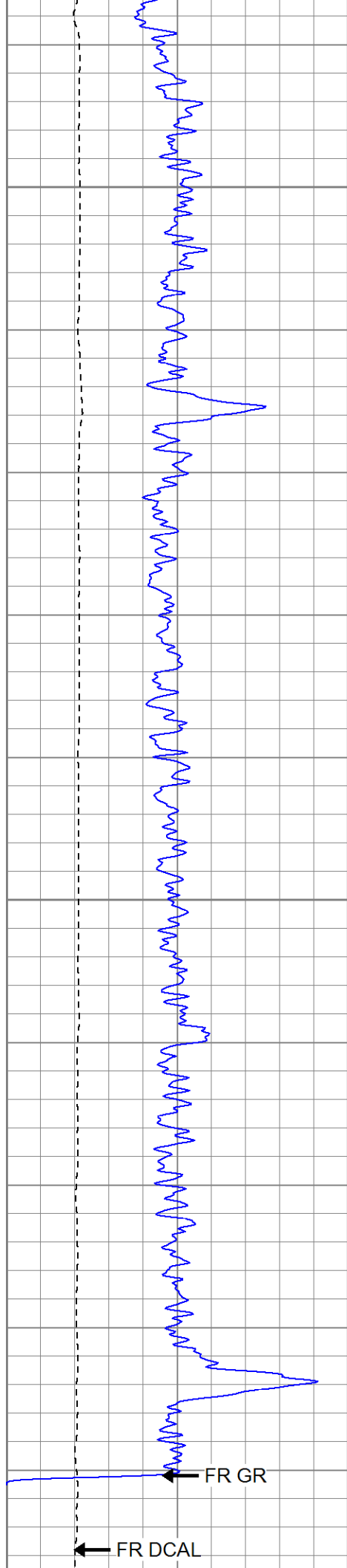




2050

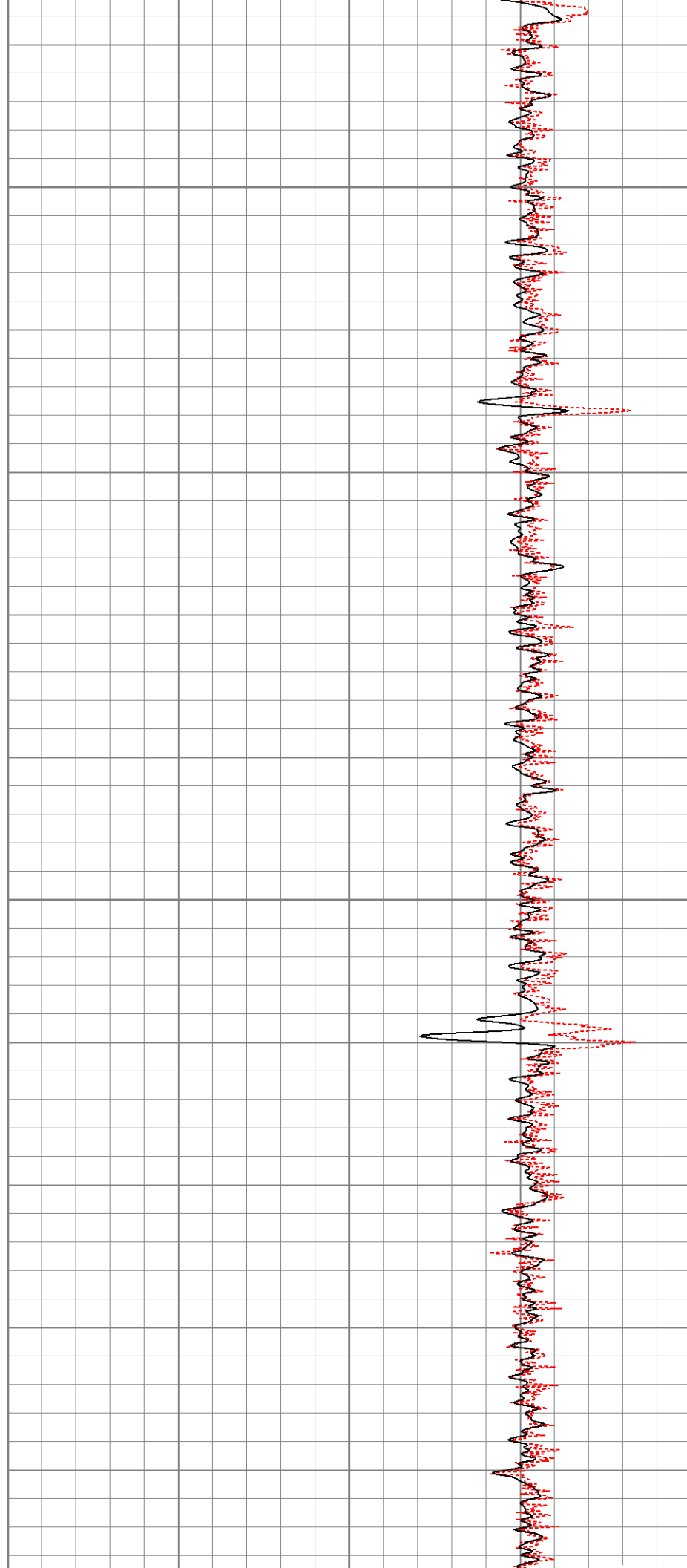
2100








2150

2200



	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					

