



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

COMPENSATED DENSITY/NEUTRON LOG

Company	XTO Energy Inc.	Company	XTO Energy Inc.
Well	Apache Canyon 04-04	Well	Apache Canyon 04-04
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API # : 05 071 09632 00 1270' FNL & 251' FWL	Other Services DIL	
Permanent Datum	SEC 04 TWP 34S RGE 67W	Elevation	
Log Measured From	Ground Level	K.B. -----	
Drilling Measured From	Ground Level	D.F. -----	
	Ground Level	G.L. 7715'	
Date	8-10-08		
Run Number	Two		
Depth Driller	2340'		
Depth Logger	2340'		
Bottom Logged Interval	2338'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 500'		
Casing Logger	500'		
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	3:00 P.M.		
Time Logger on Bottom	6:50 P.M.		
Maximum Recorded Temperature	78 DEG F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	J. Cappellucci		
Witnessed By	Mr. Don Johnson		

<<< Fold Here >>>

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 Neutron Porosity Presented on Sandstone Matrix.
ABHV Calculated for 5 1/2" Casing.

Well Directions:

First Bosque Entrance to Cherry Canyon, go thru green gate, past Compressor Station 5,
stay right at hard switchback, take second left, at Y stay right, follow road down hill,
at Y stay left, dead end on location.



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

Main Pass

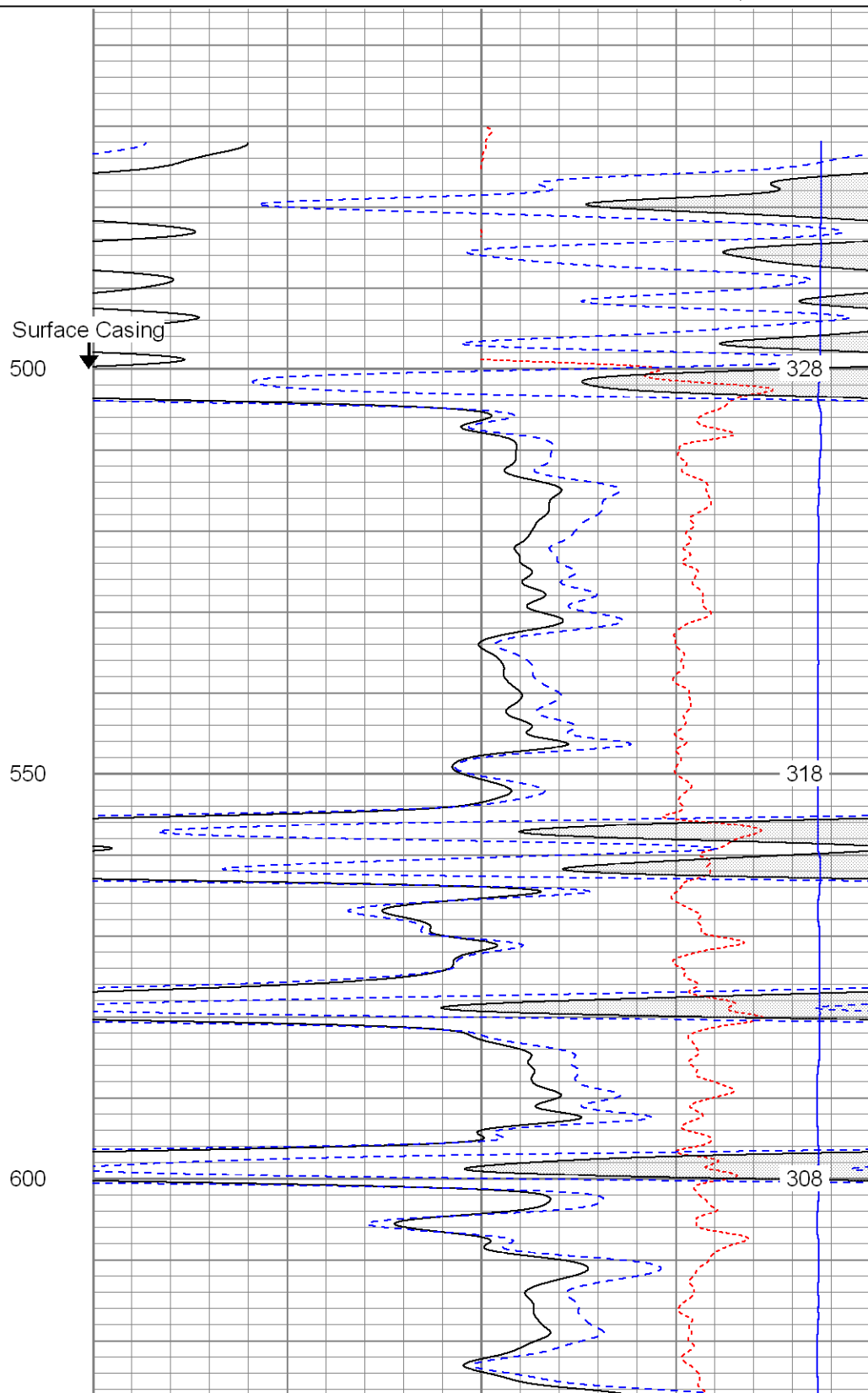
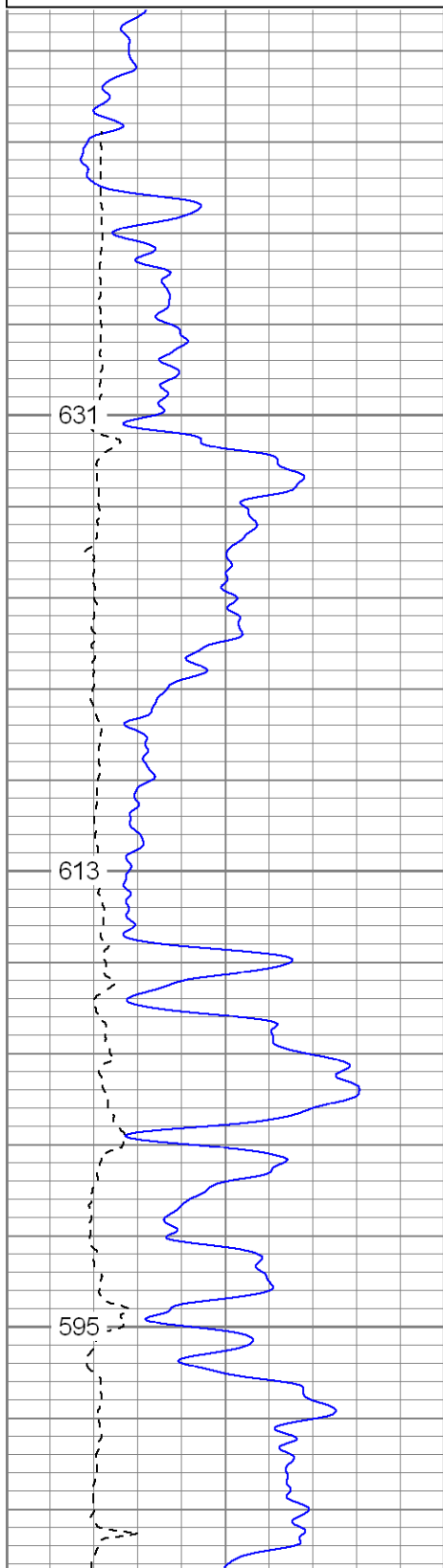
Database File: xtoac0404.db
Dataset Pathname: pass7.2
Presentation Format: cdl
Dataset Creation: Sun Aug 10 20:47:28 2008
Charted by: Depth in Feet scaled 1:240

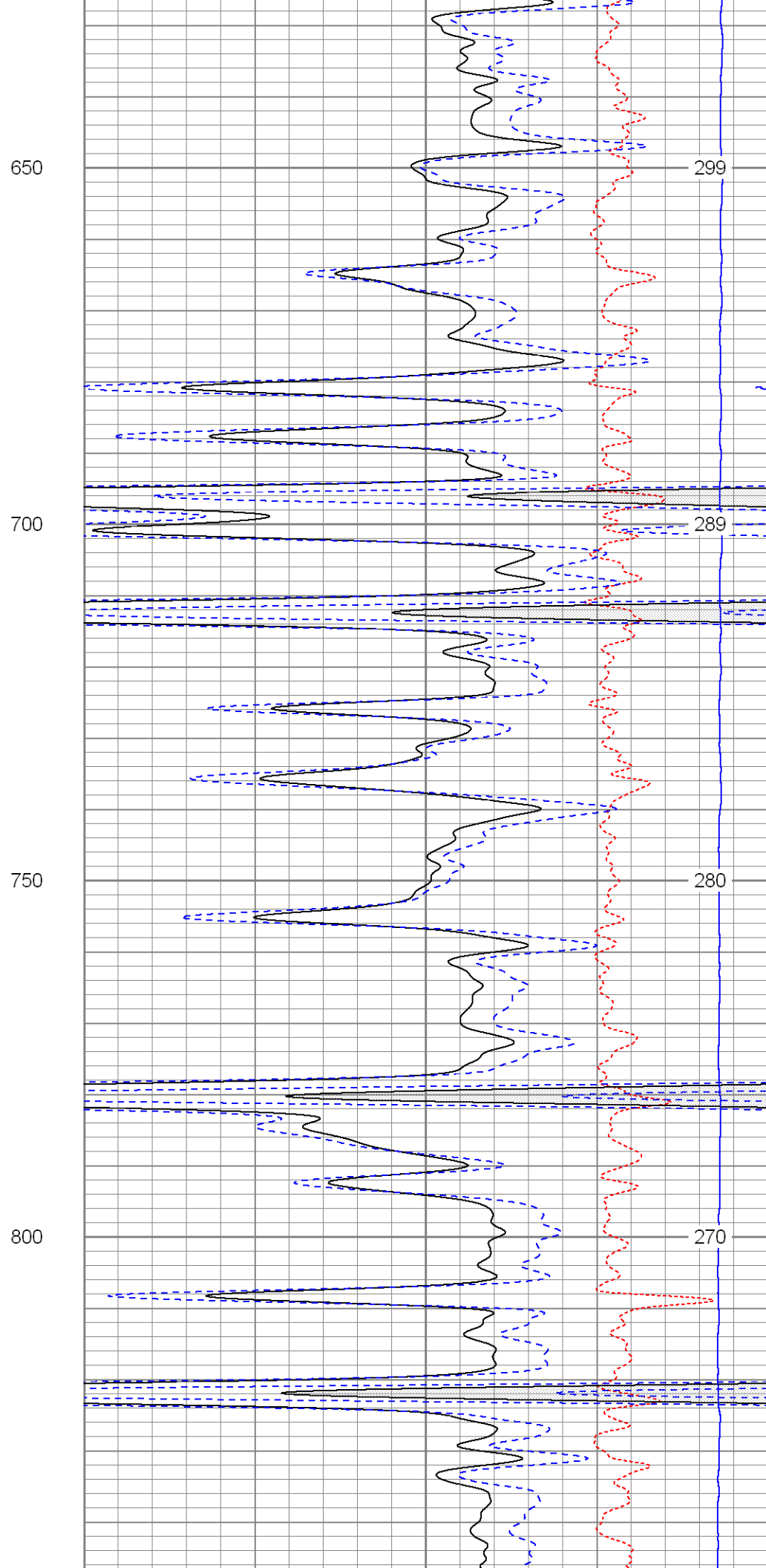
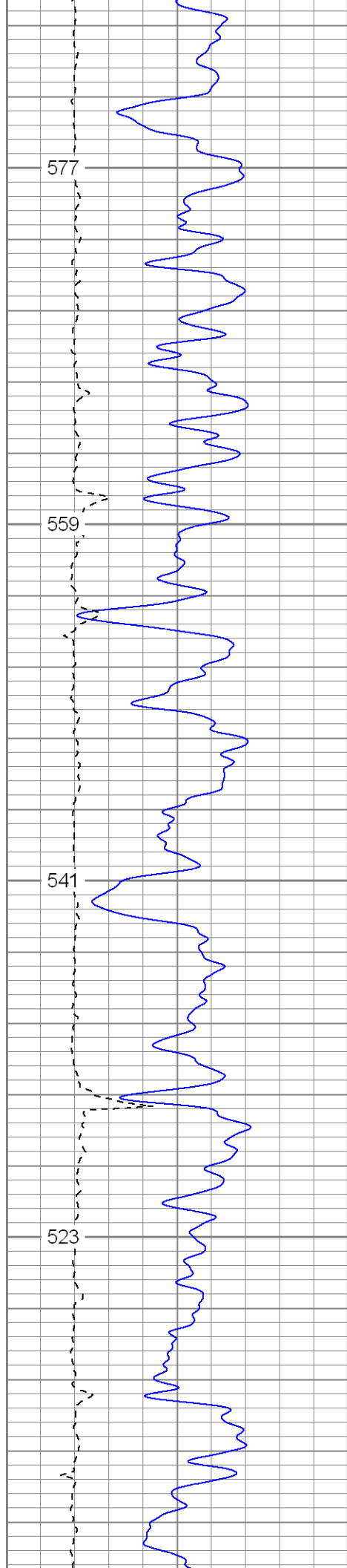
0	GR (GAPI)	200
6	DCAL (in)	16

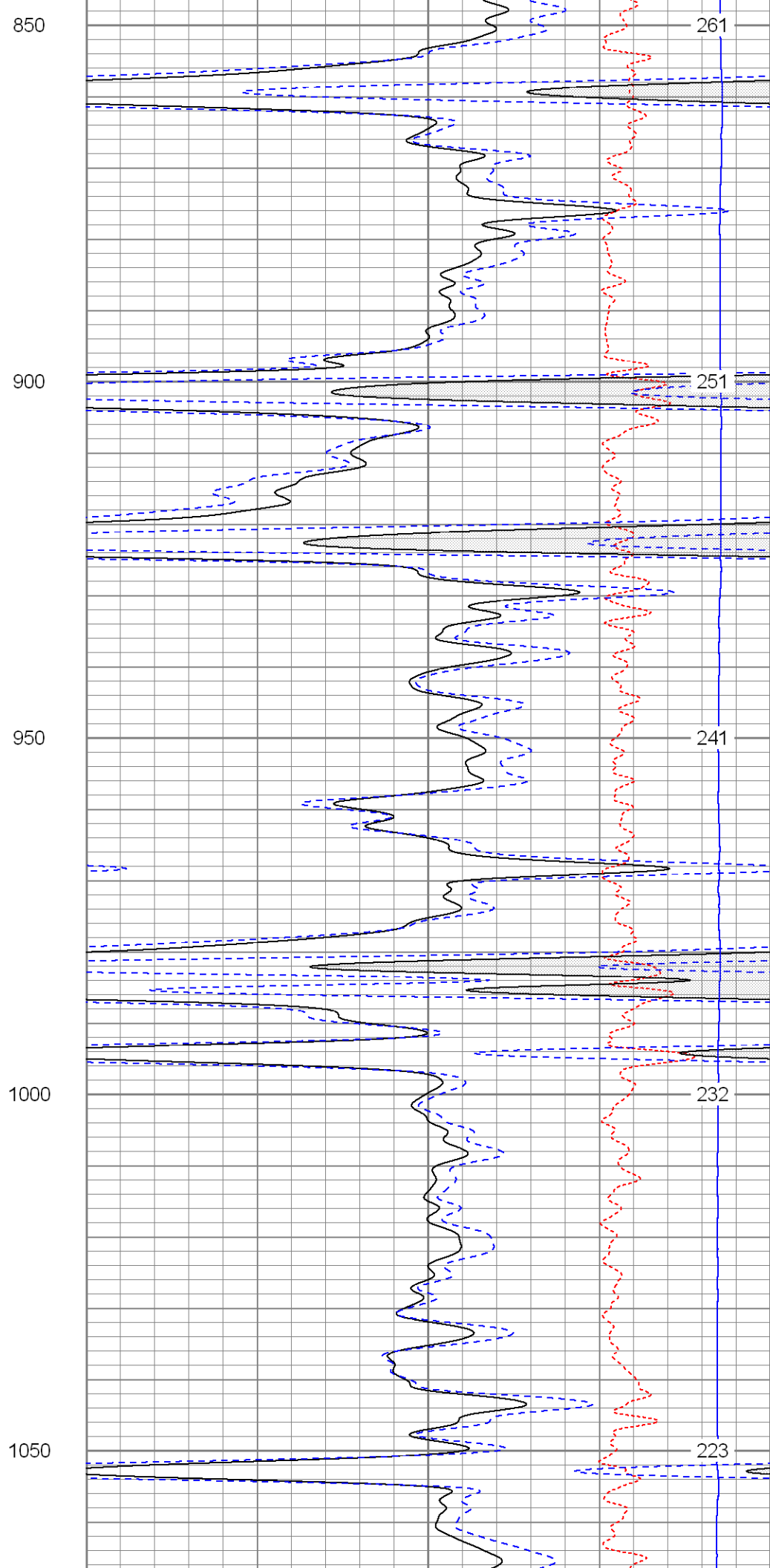
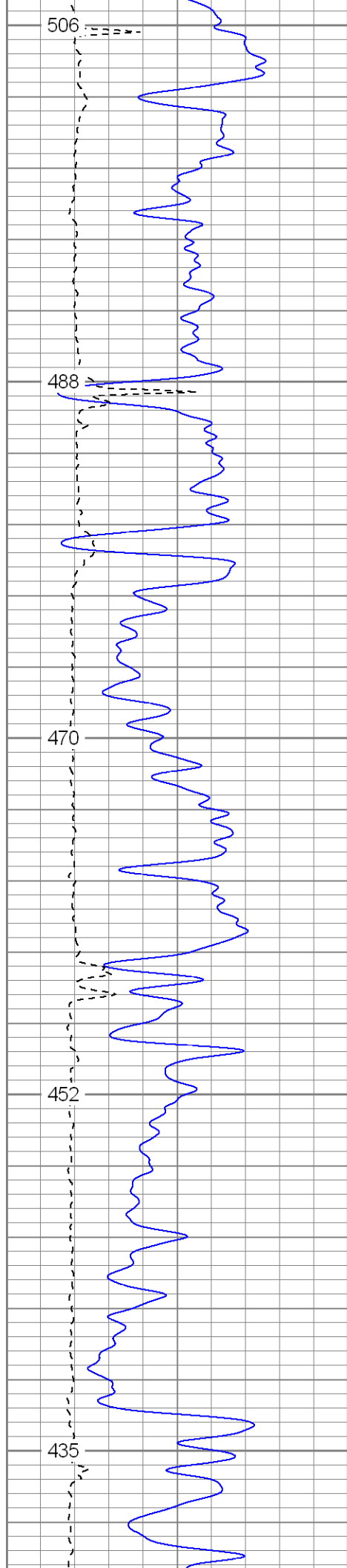
TBHV (ft3)		

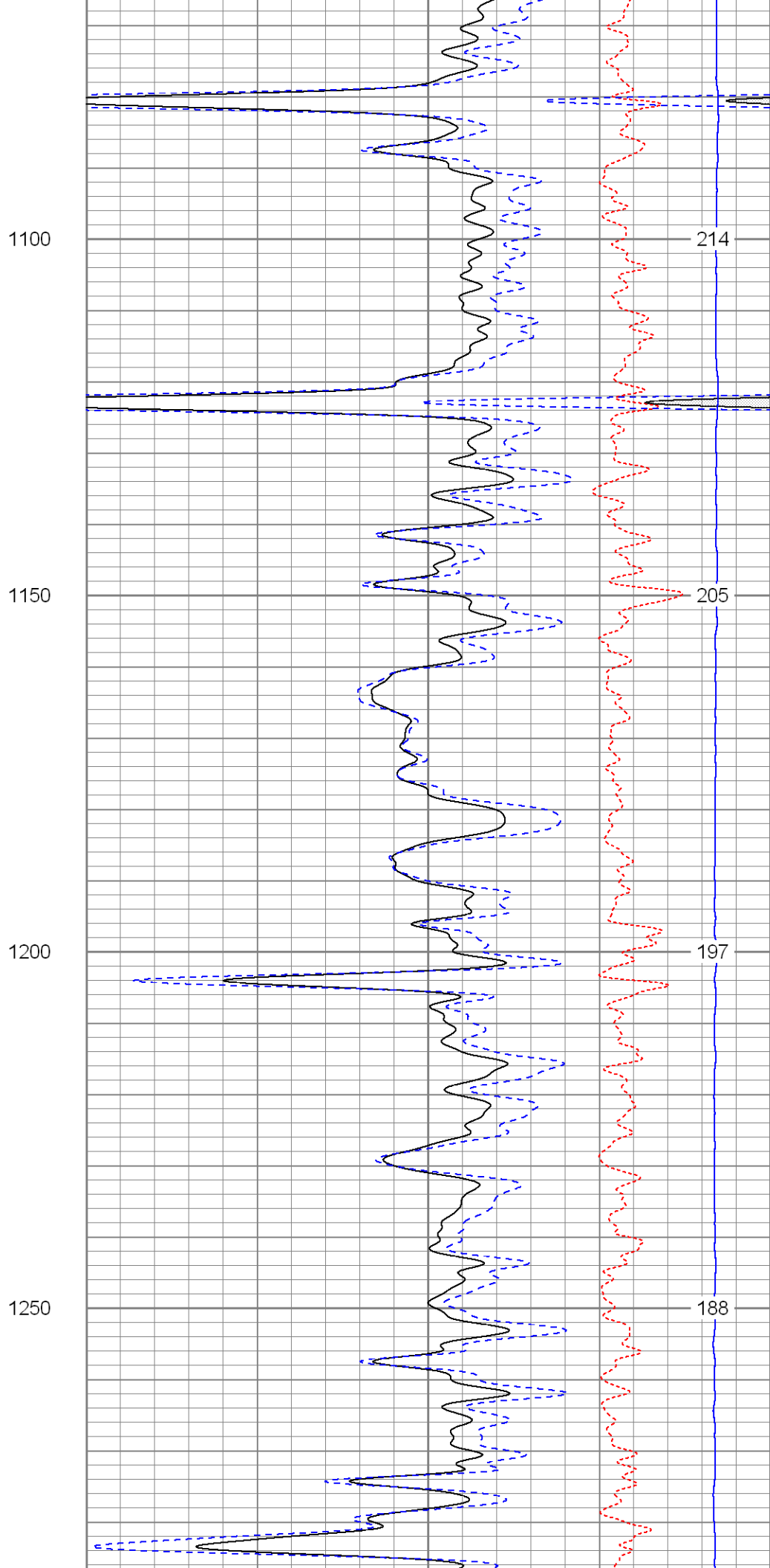
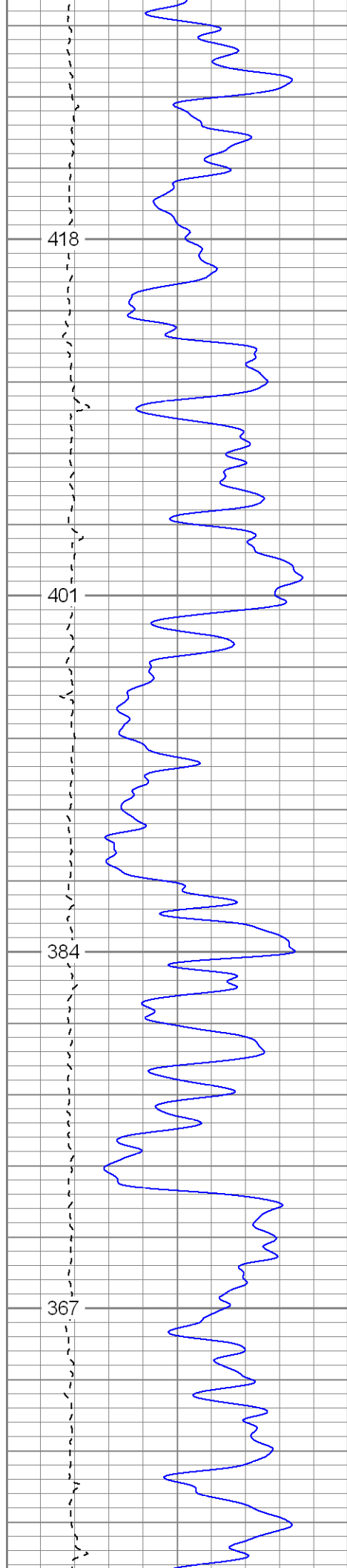
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10

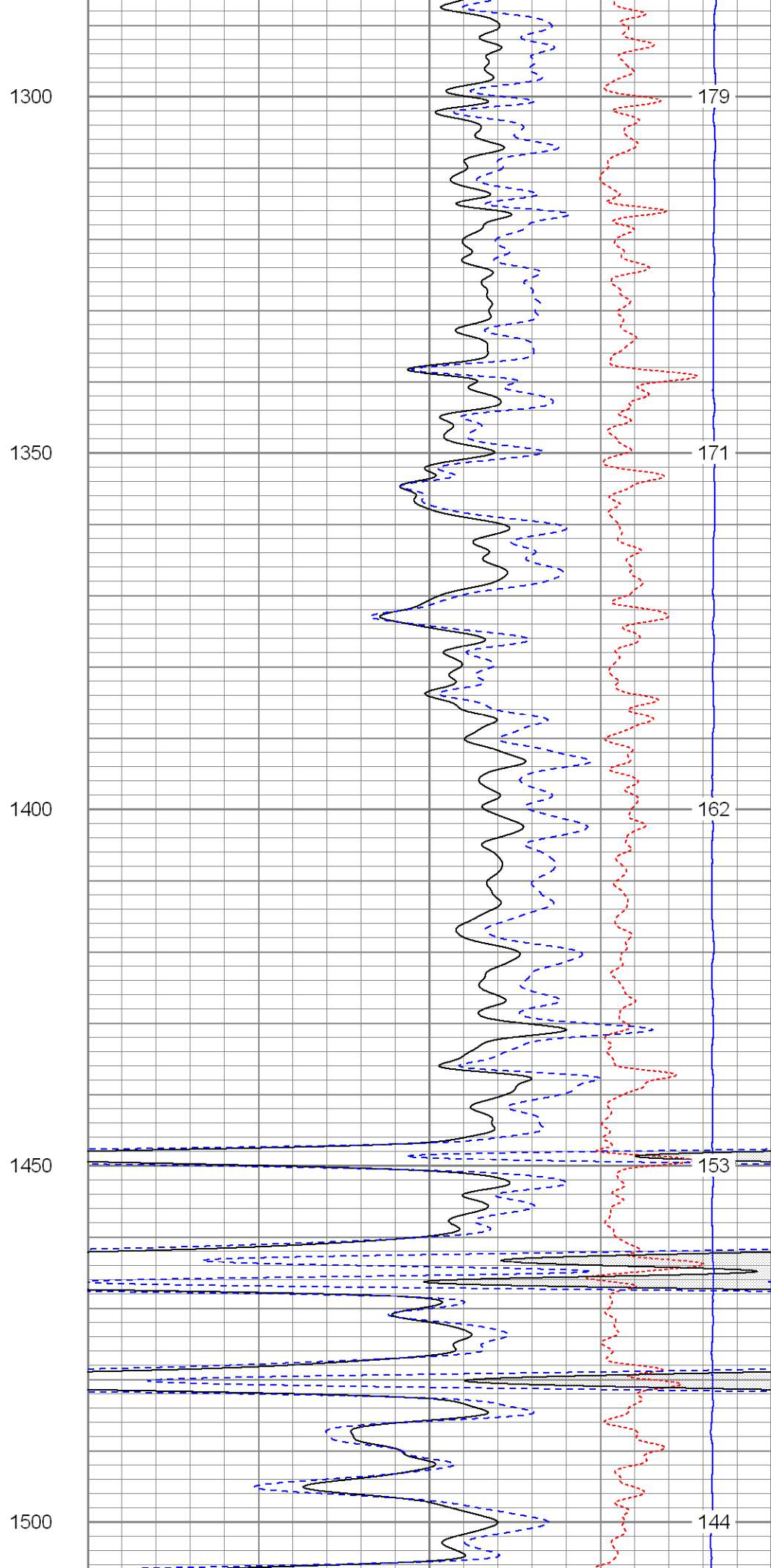
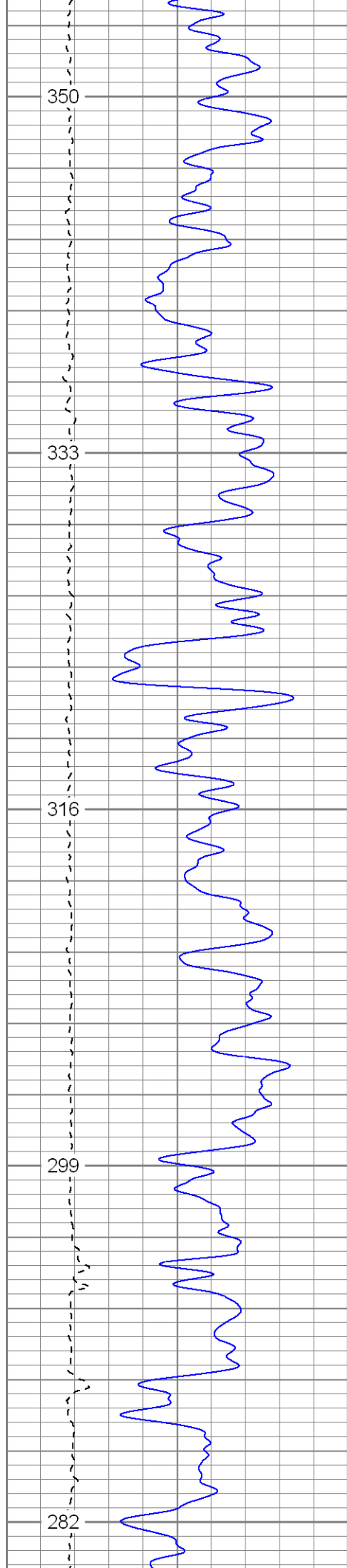
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
		ABHV (ft3)

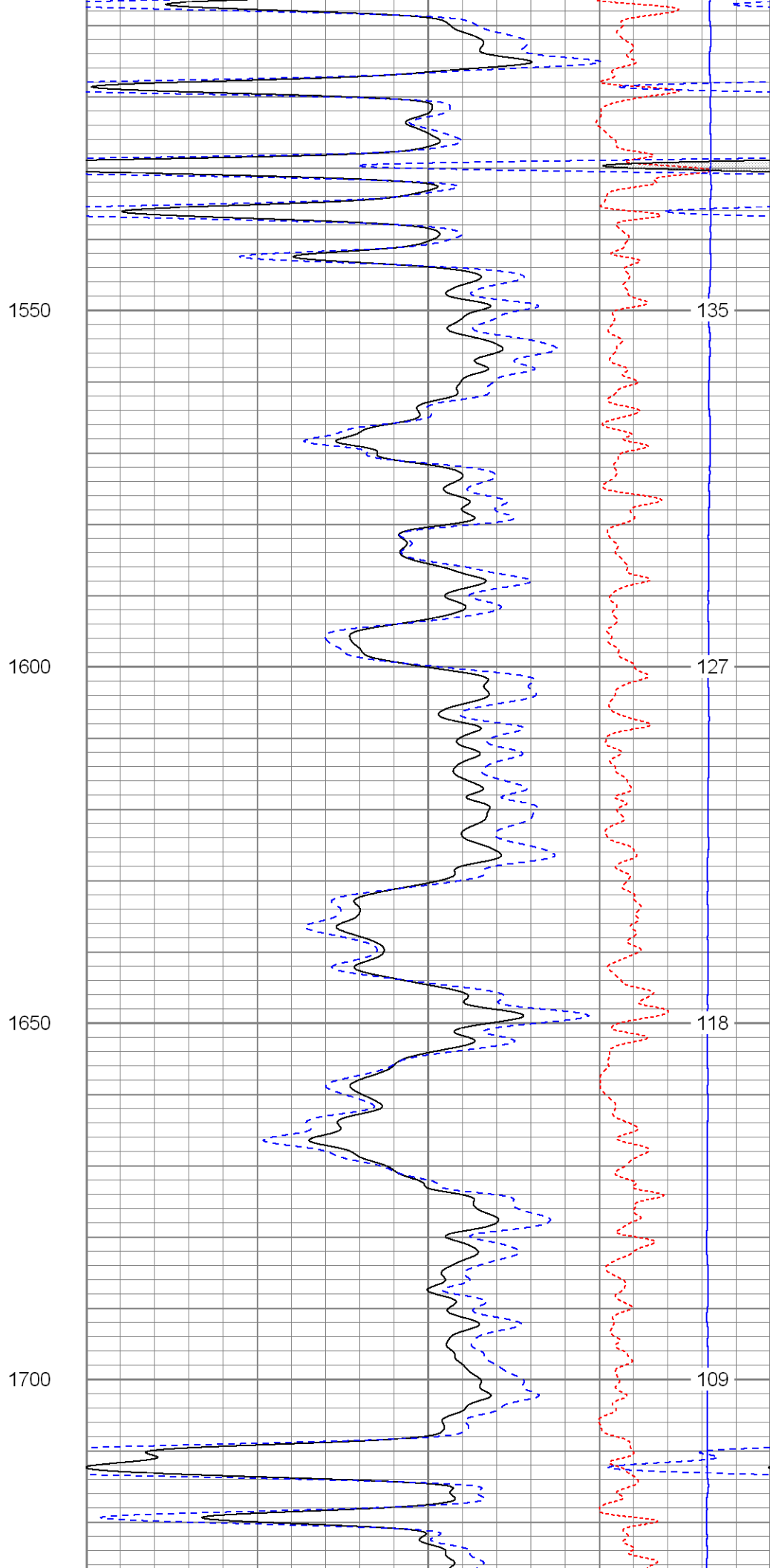
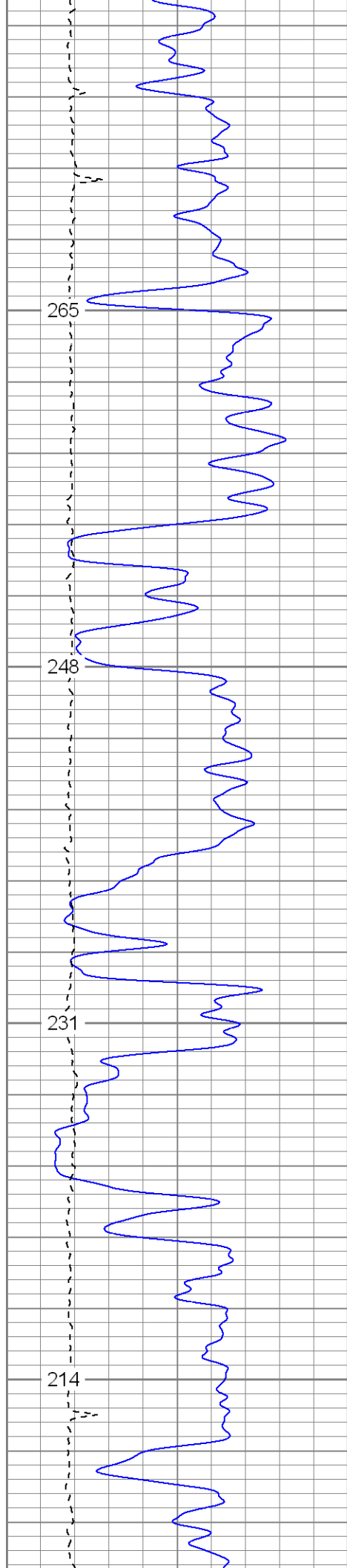


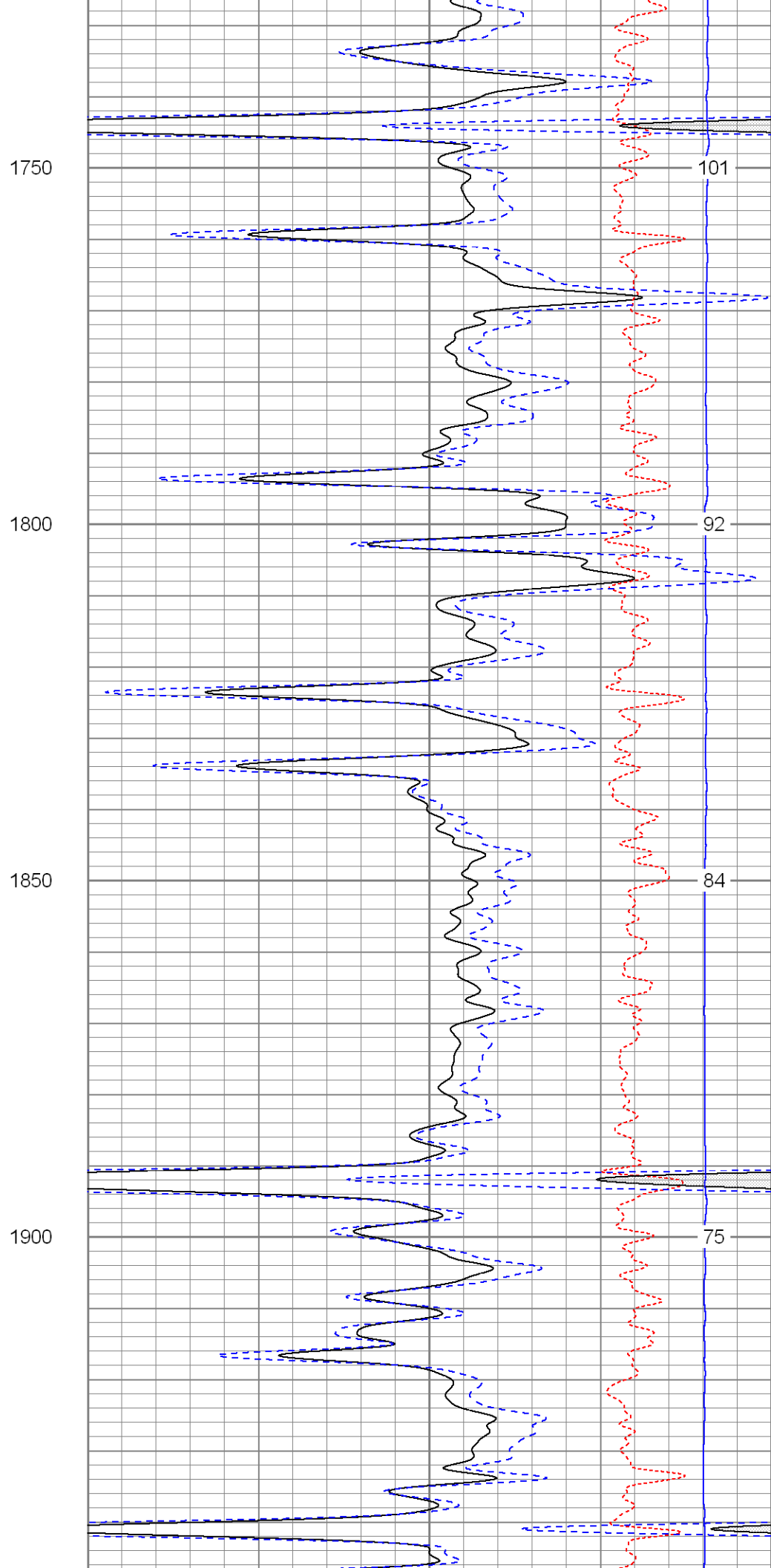
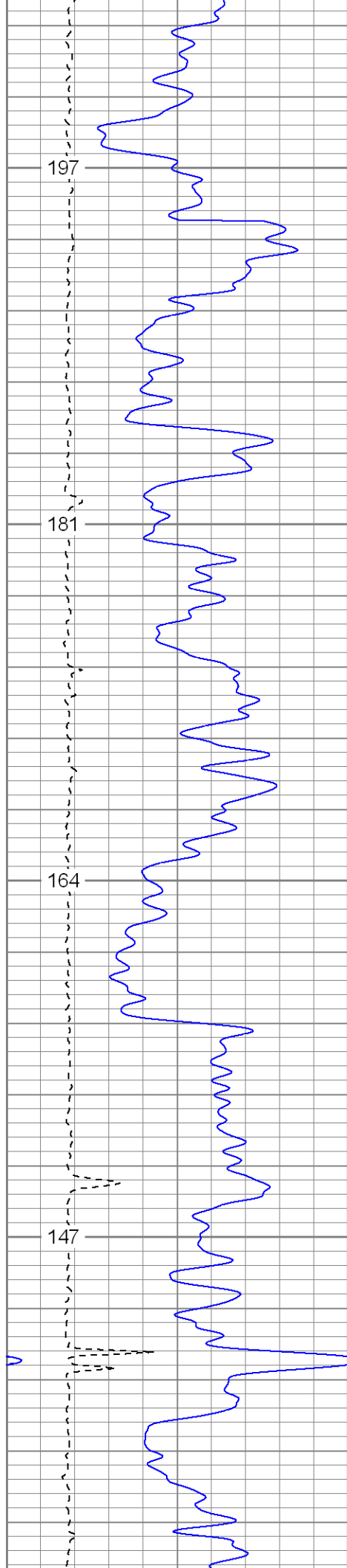


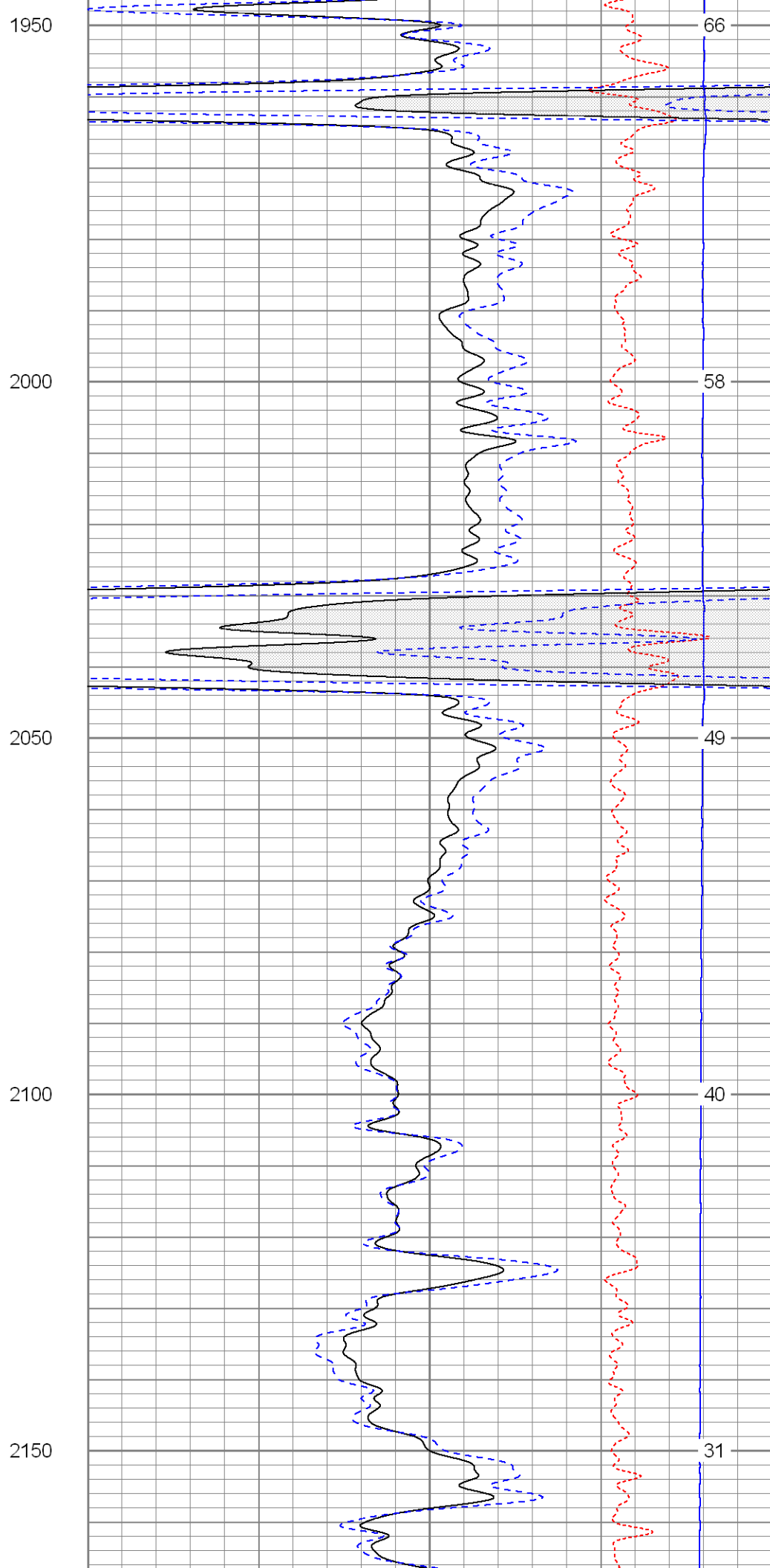
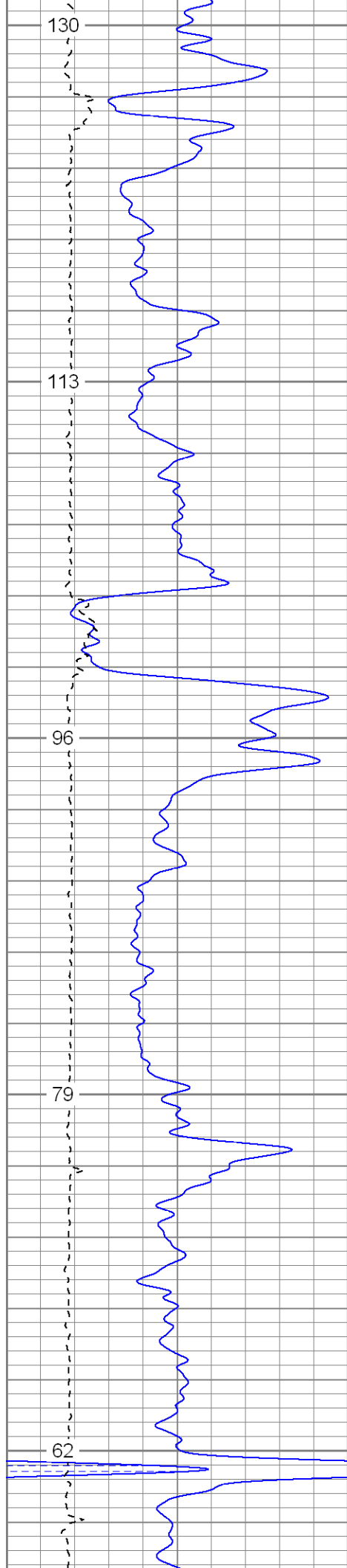


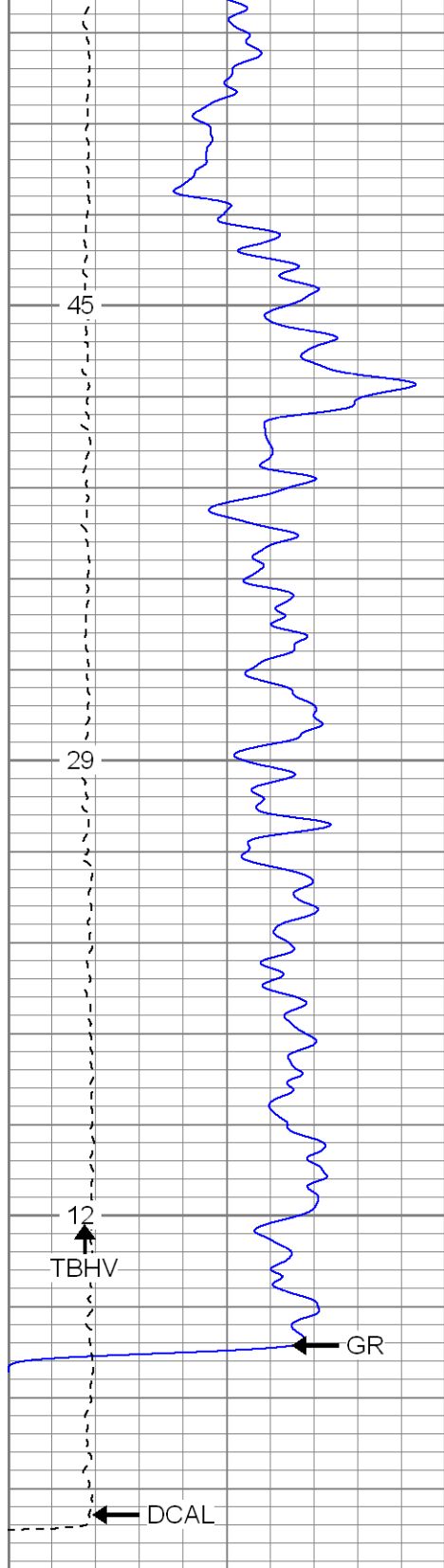










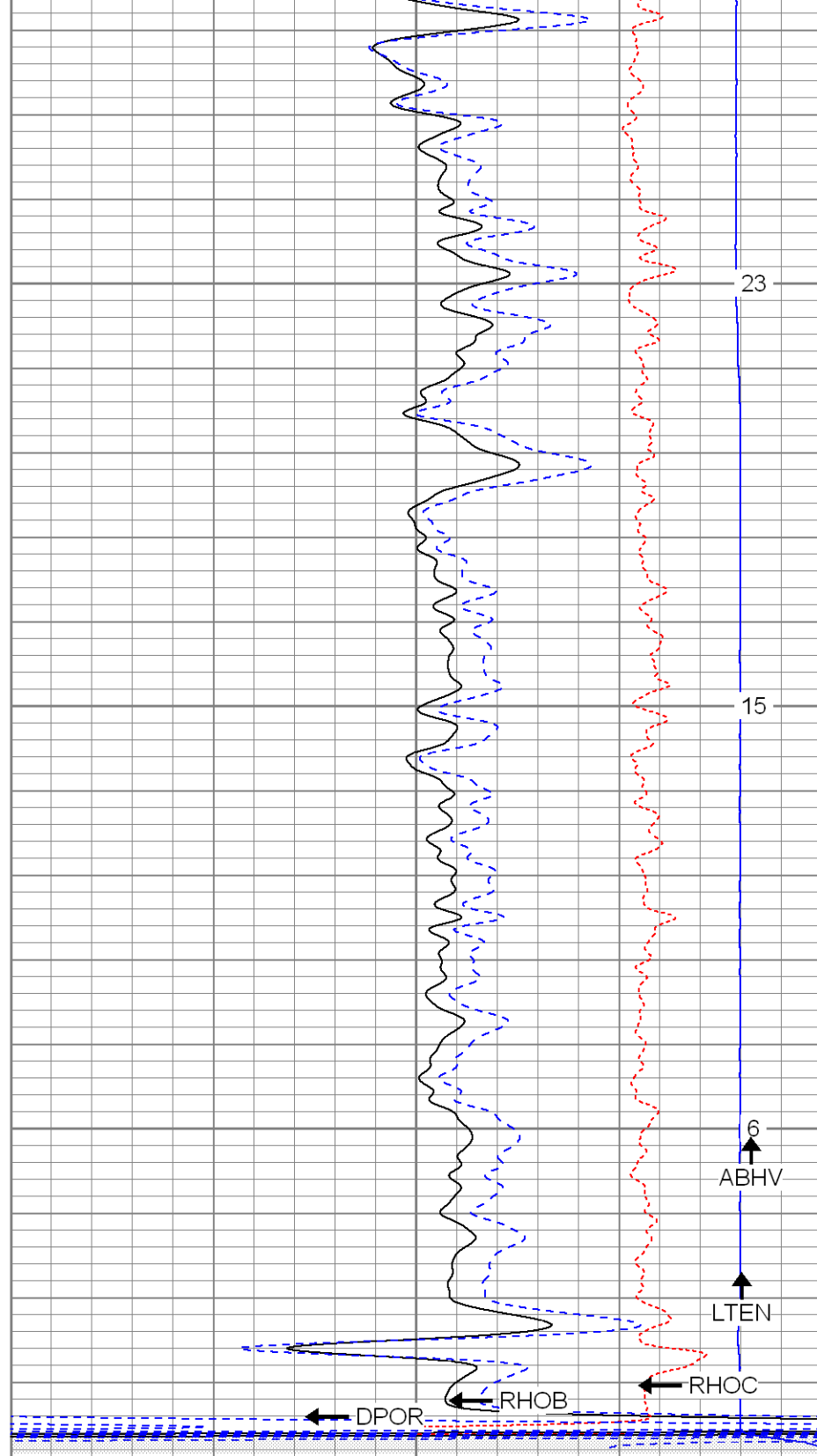


0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

2200

2250

2300



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)		

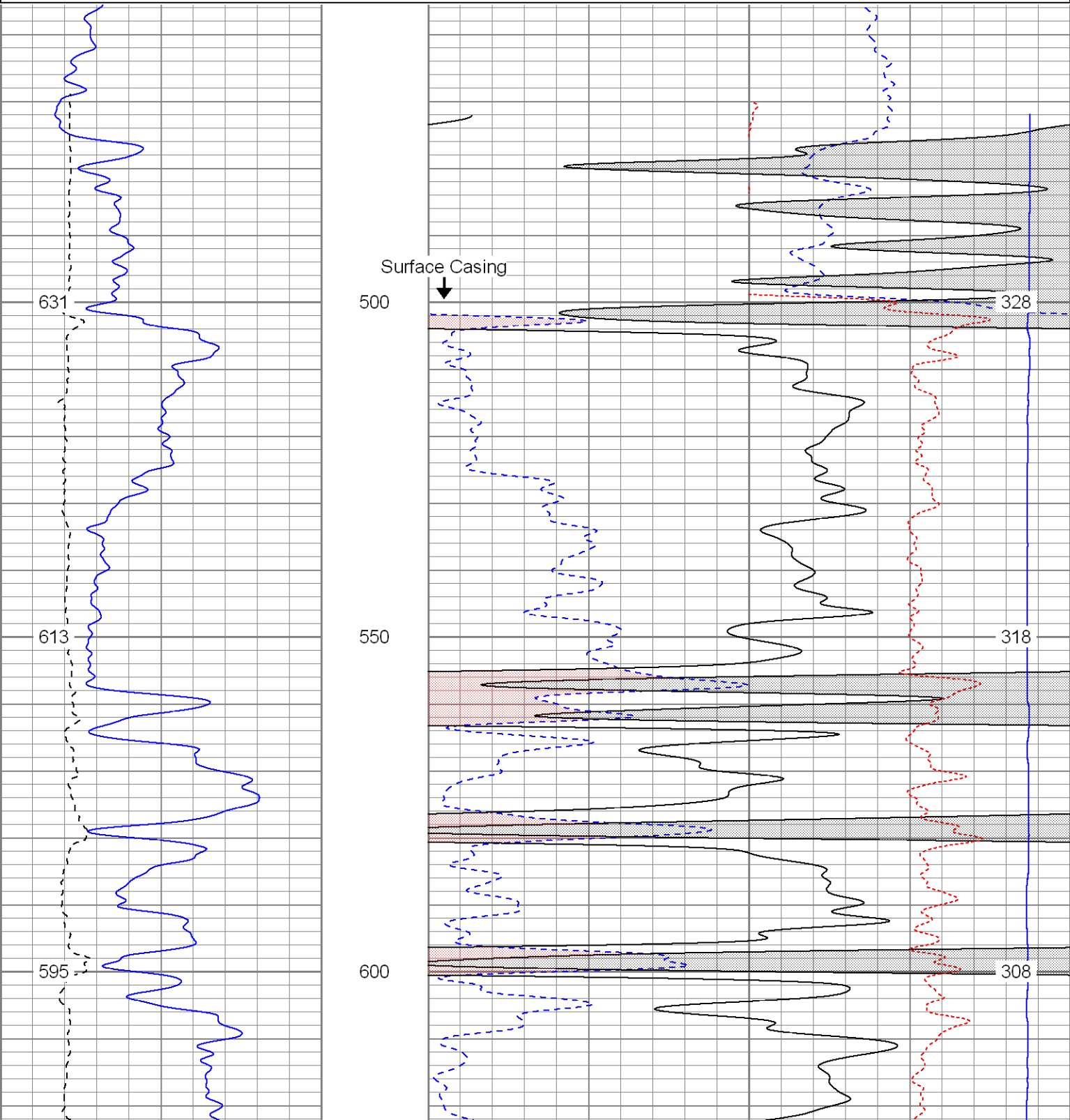


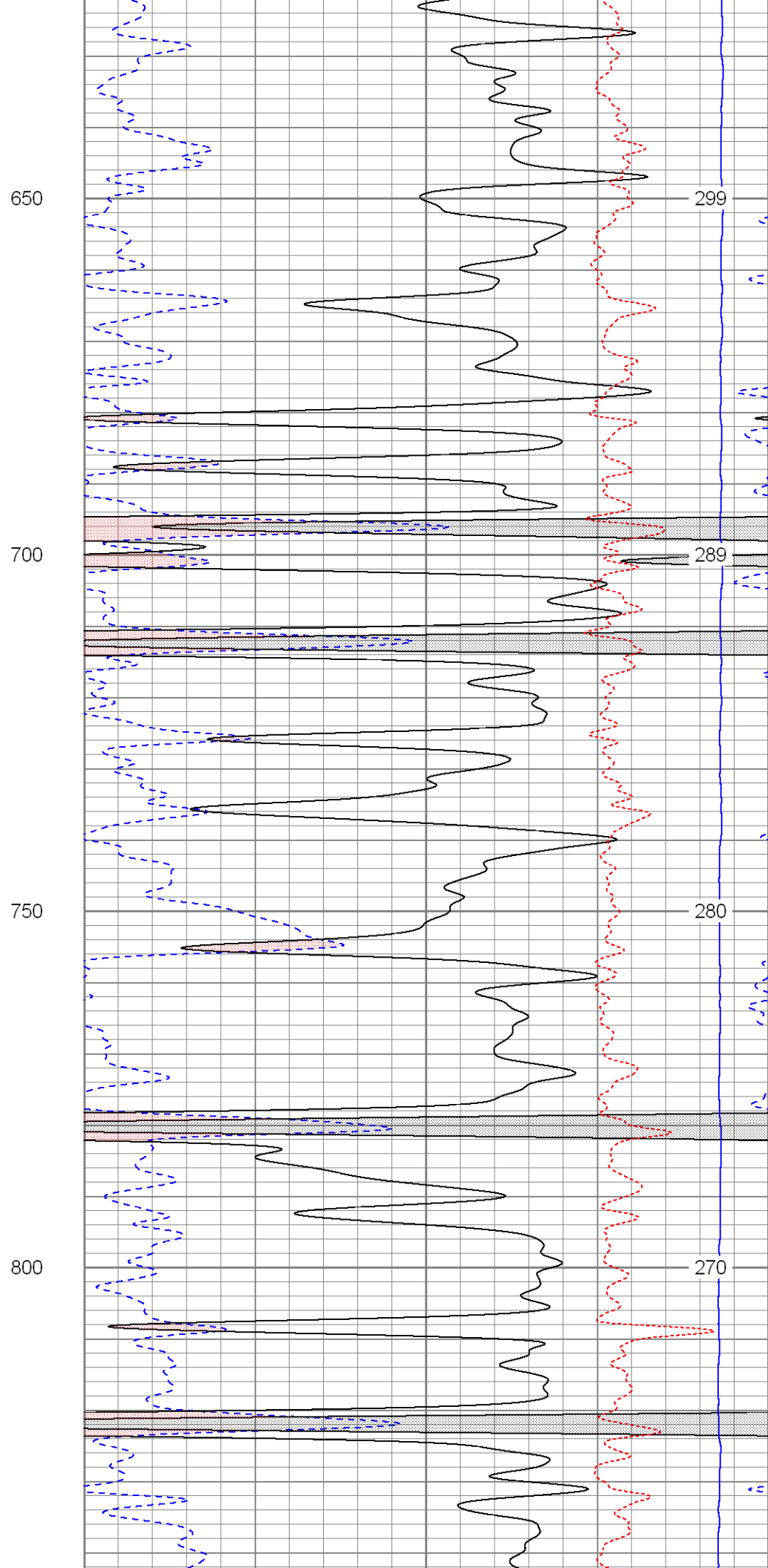
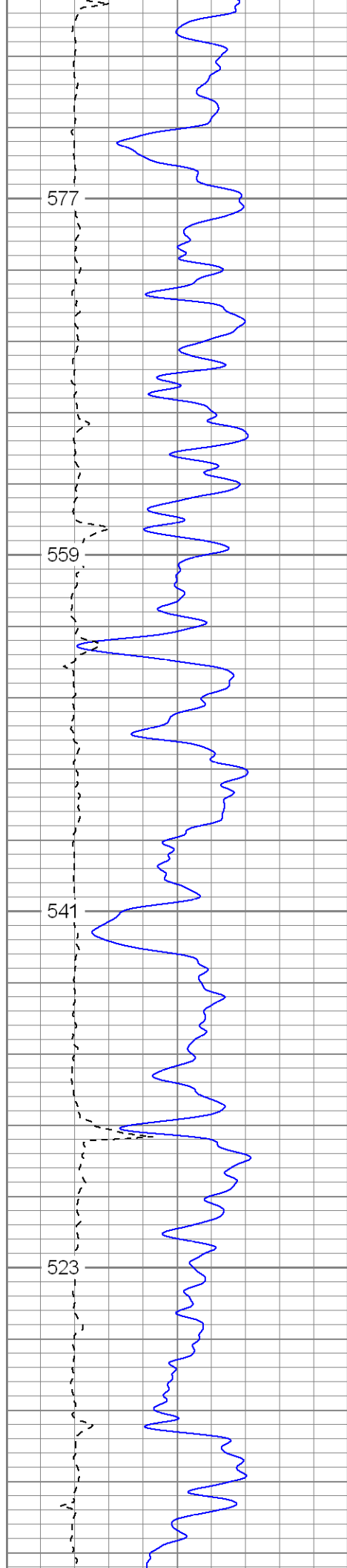
SUPERIOR
Black Lick, Pa.
Mercer, Pa.

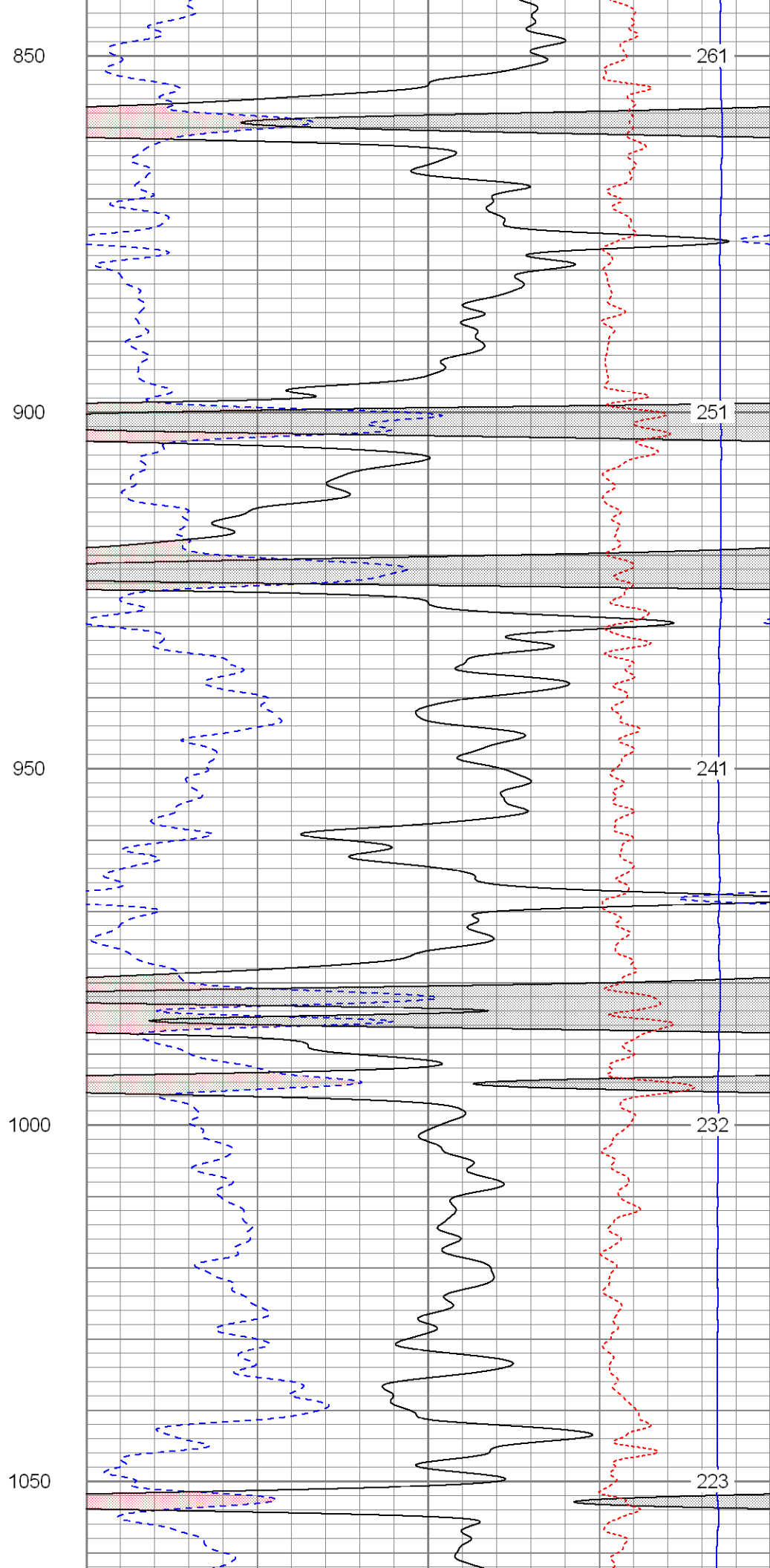
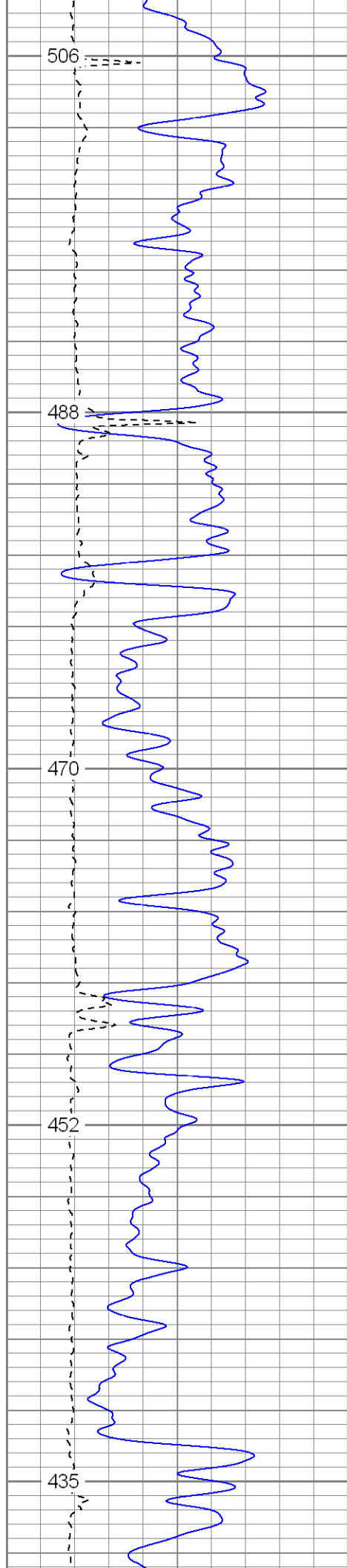
Main Pass

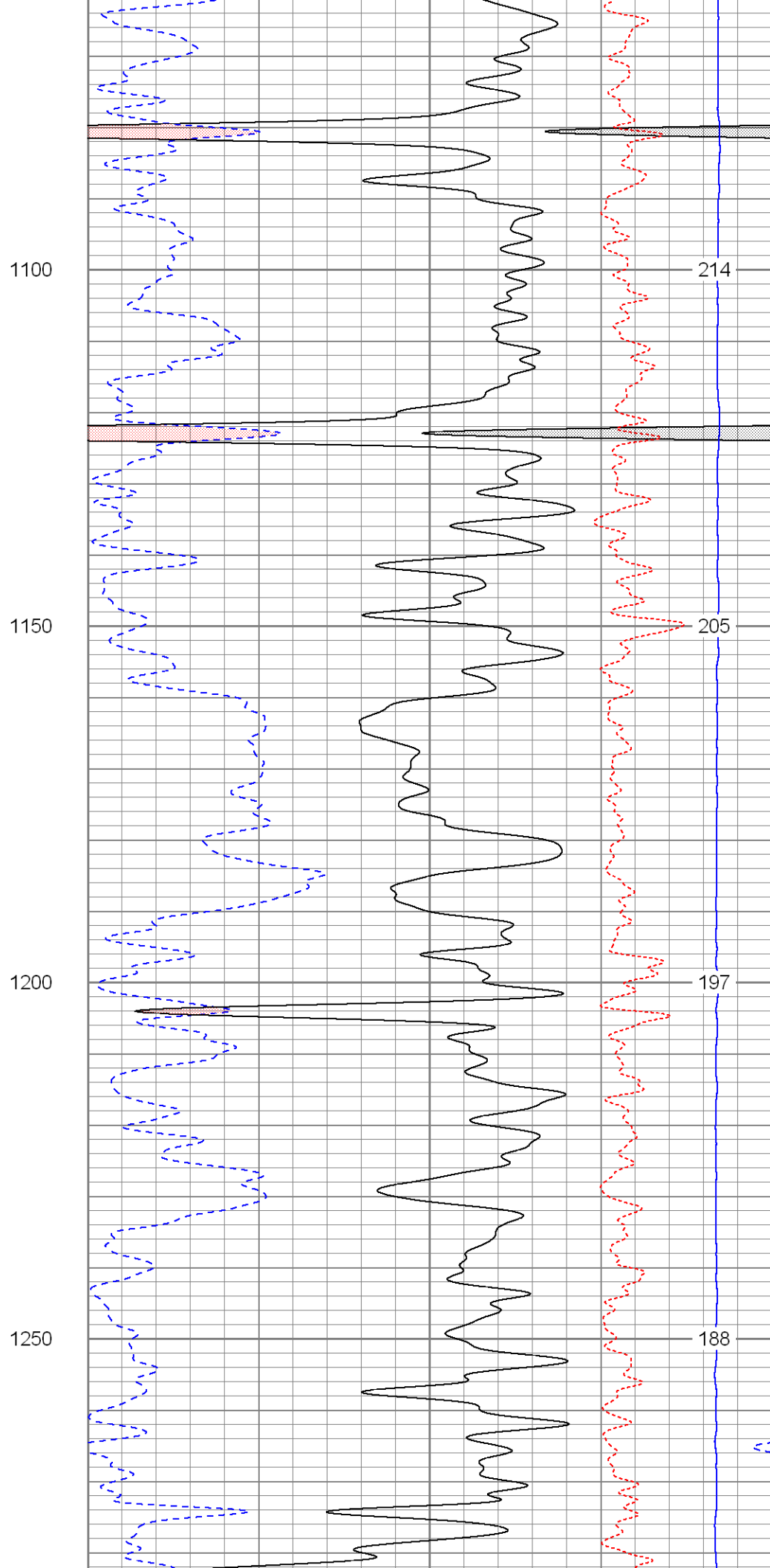
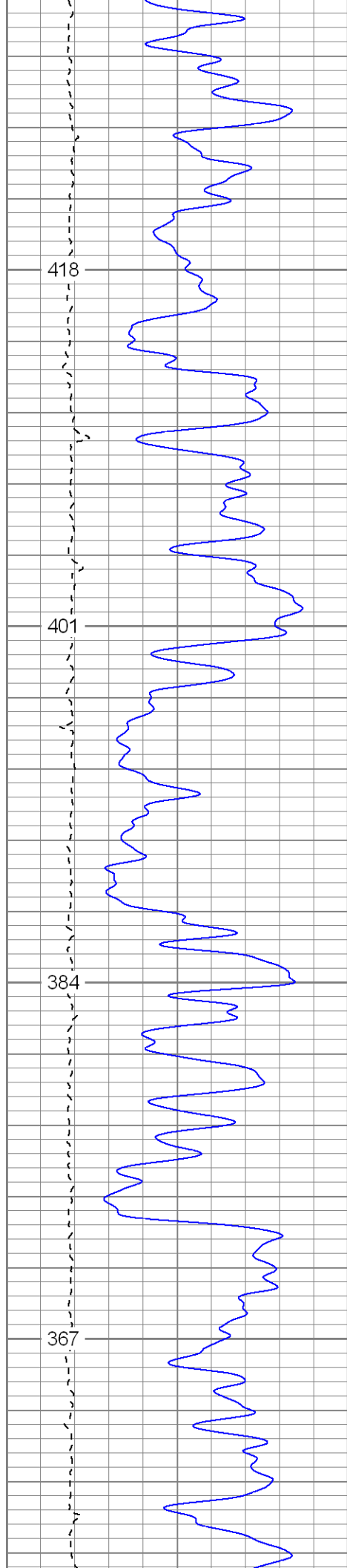
Database File: xtoac0404.db
Dataset Pathname: pass7.2
Presentation Format: cdnl
Dataset Creation: Sun Aug 10 20:47:28 2008
Charted by: Depth in Feet scaled 1:240

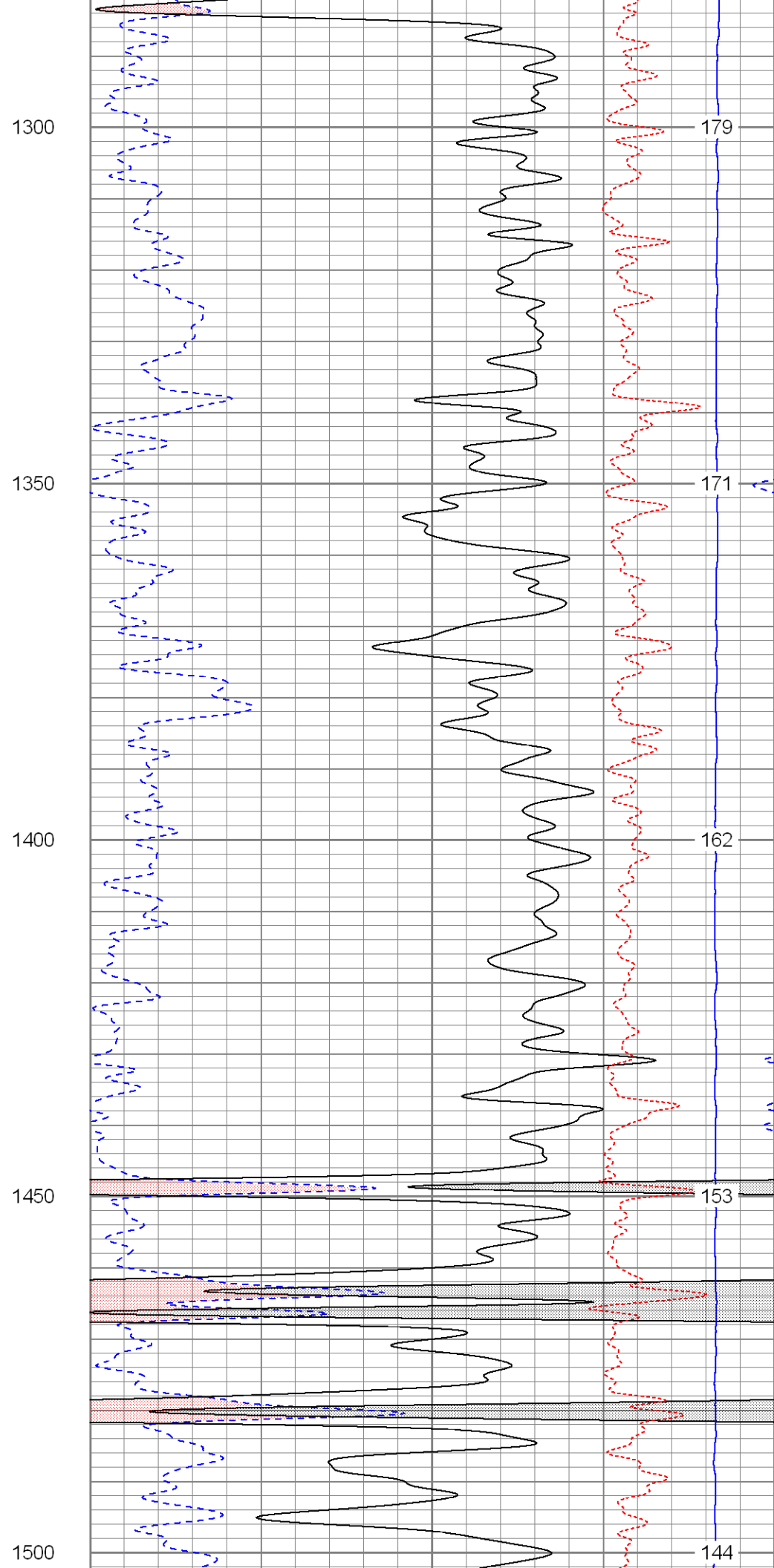
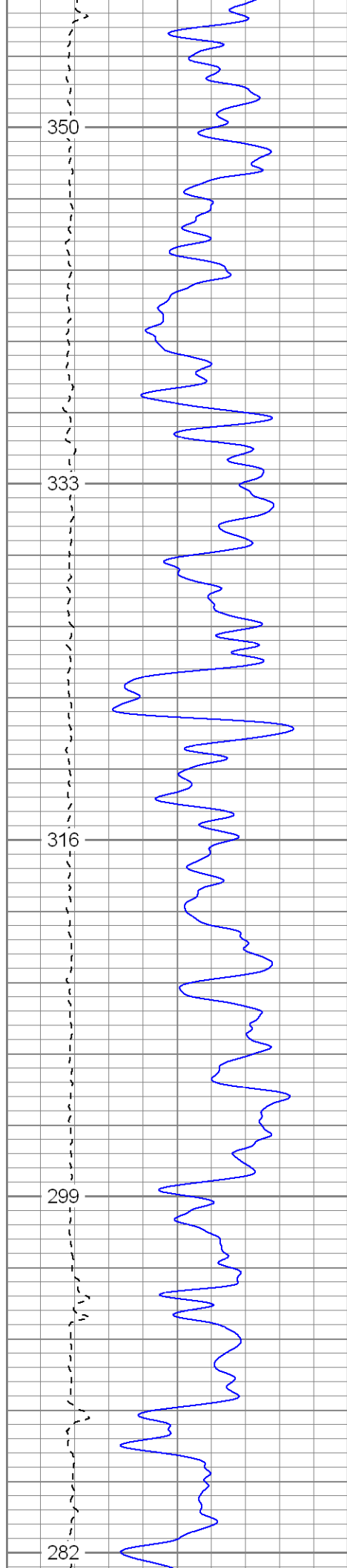
0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5 RHOC (g/cc) 0.5		
			7000 LTEN (lb) 0		
			ABHV (ft3)		

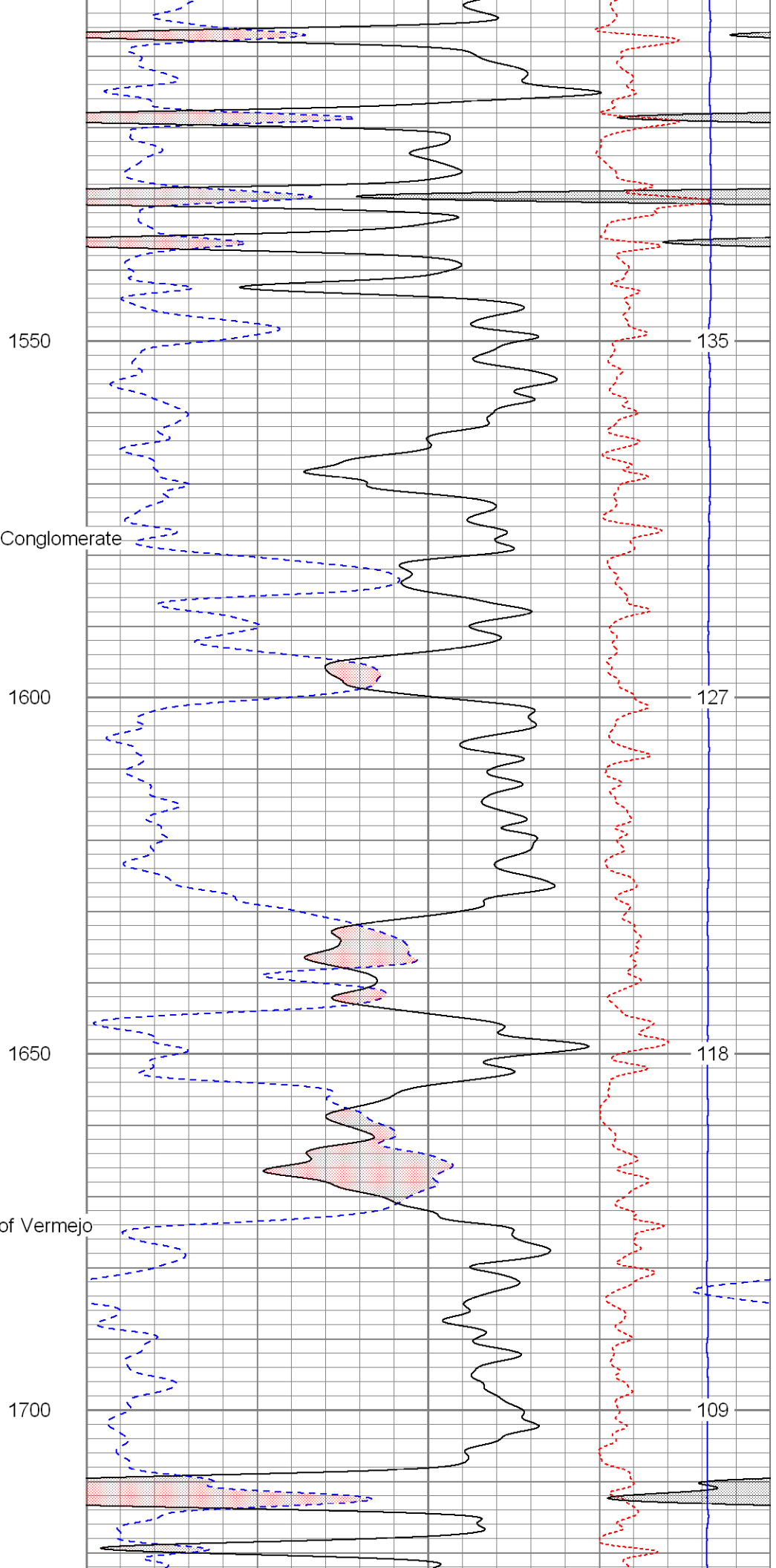
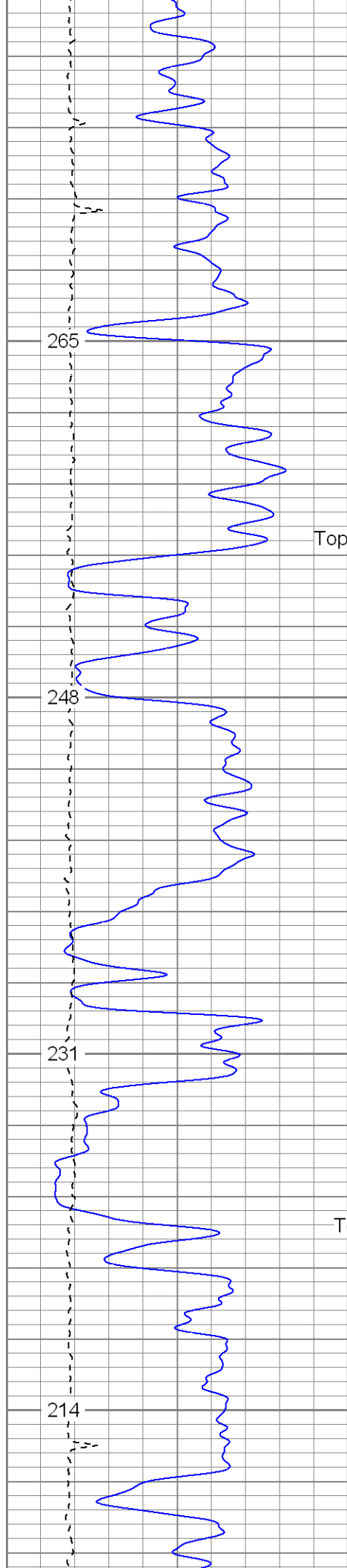


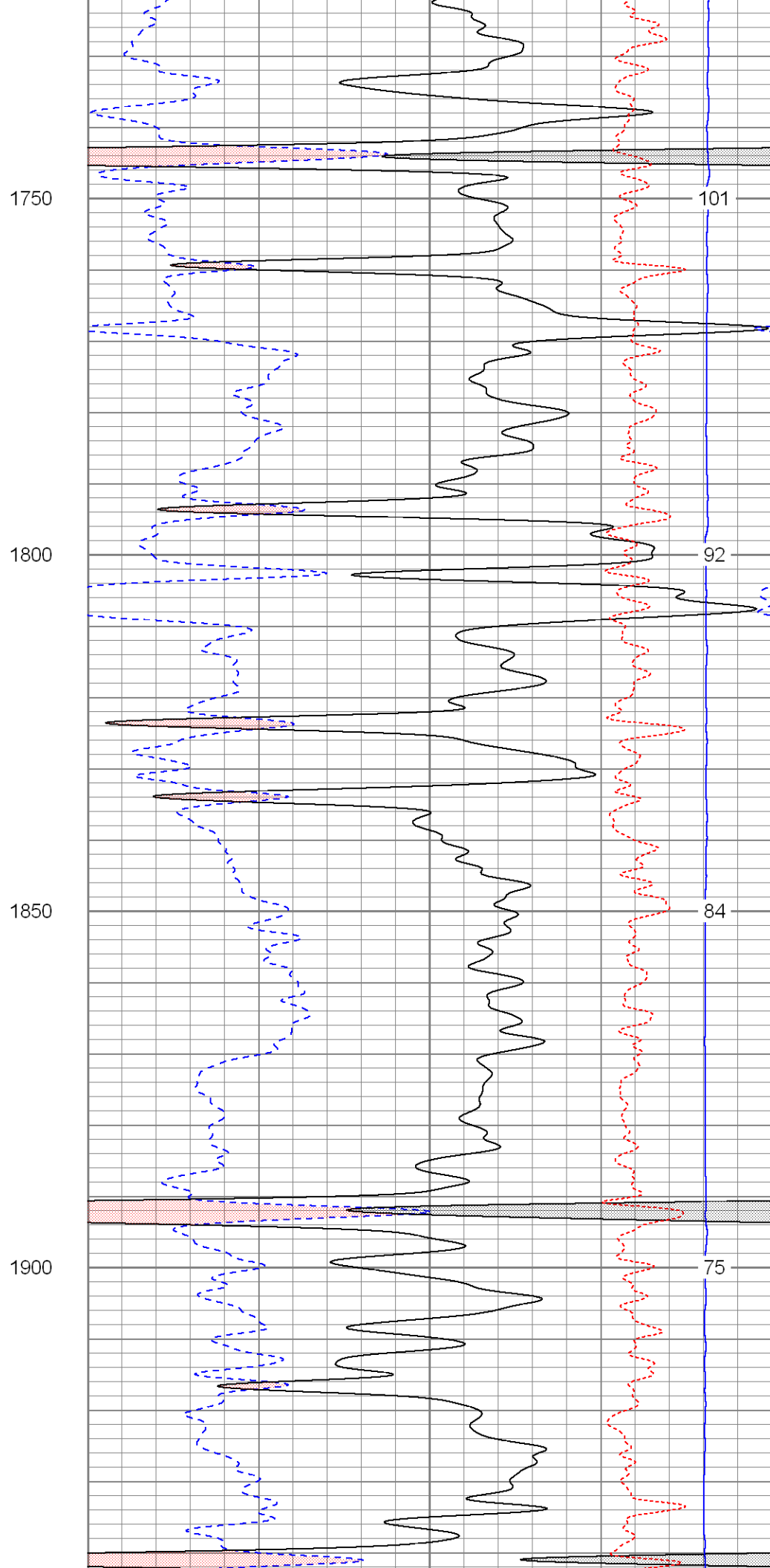
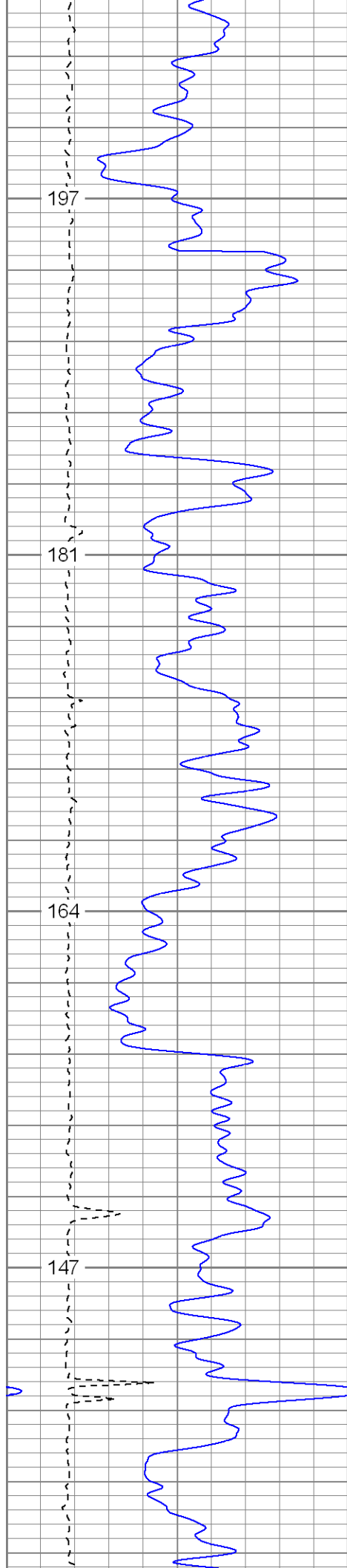


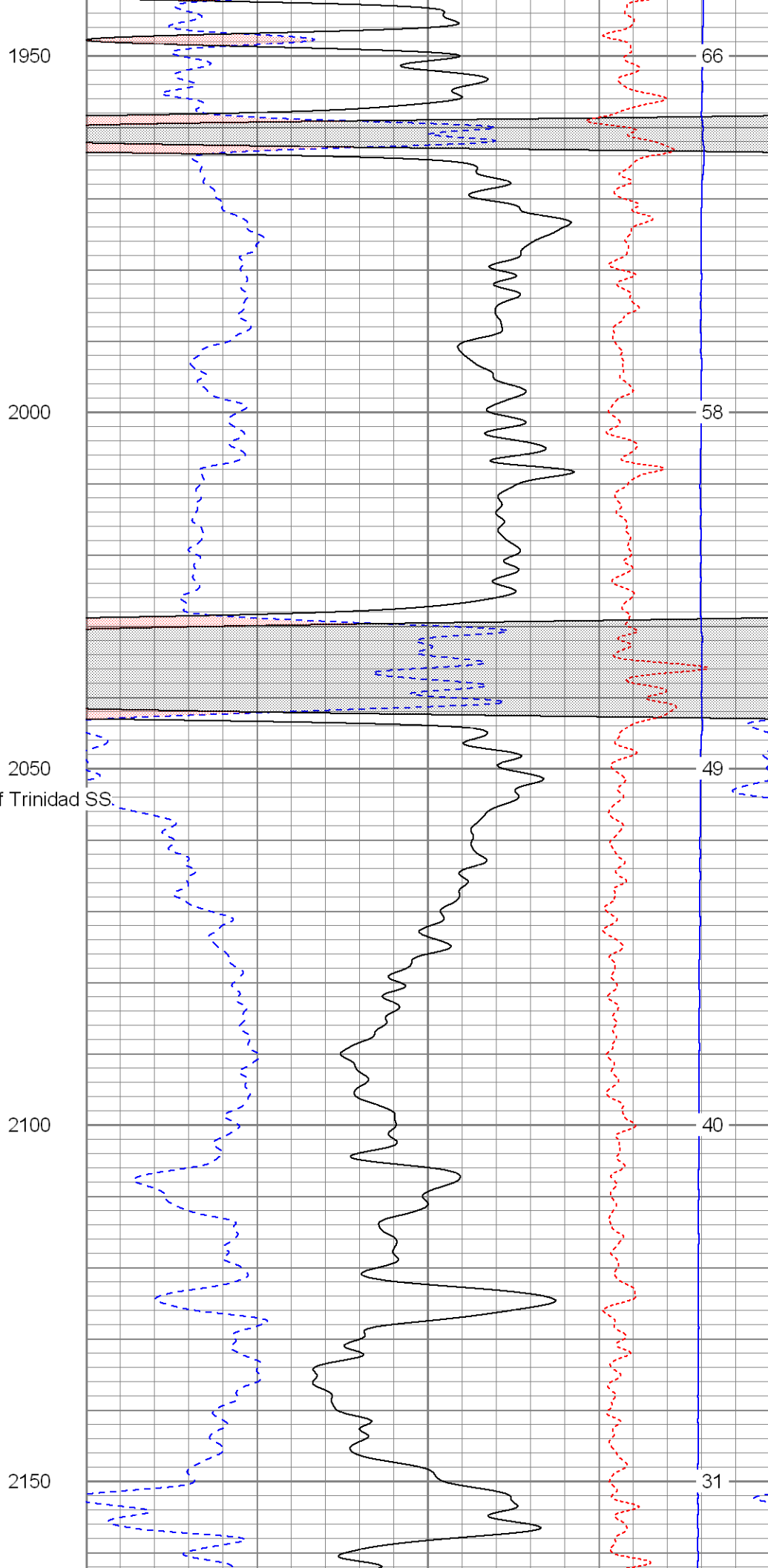
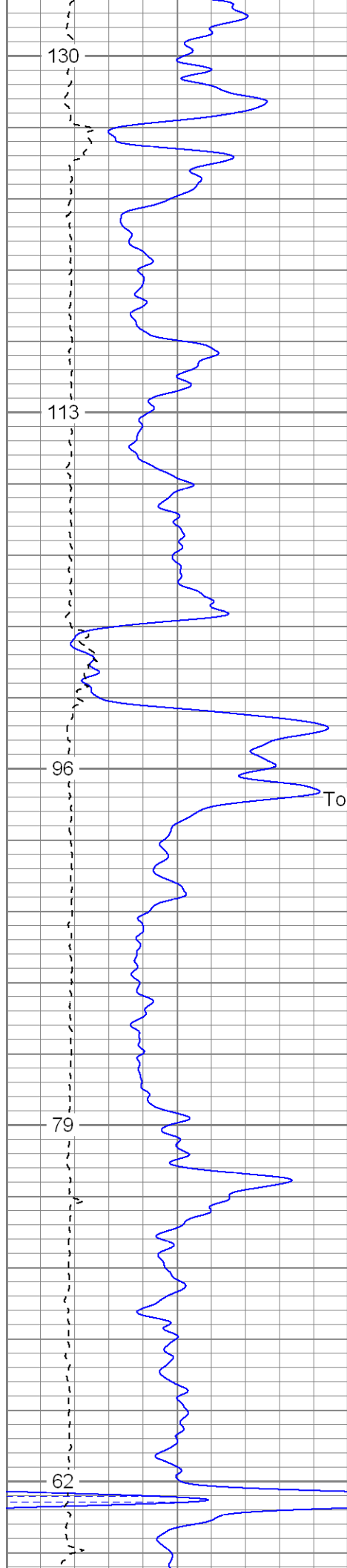


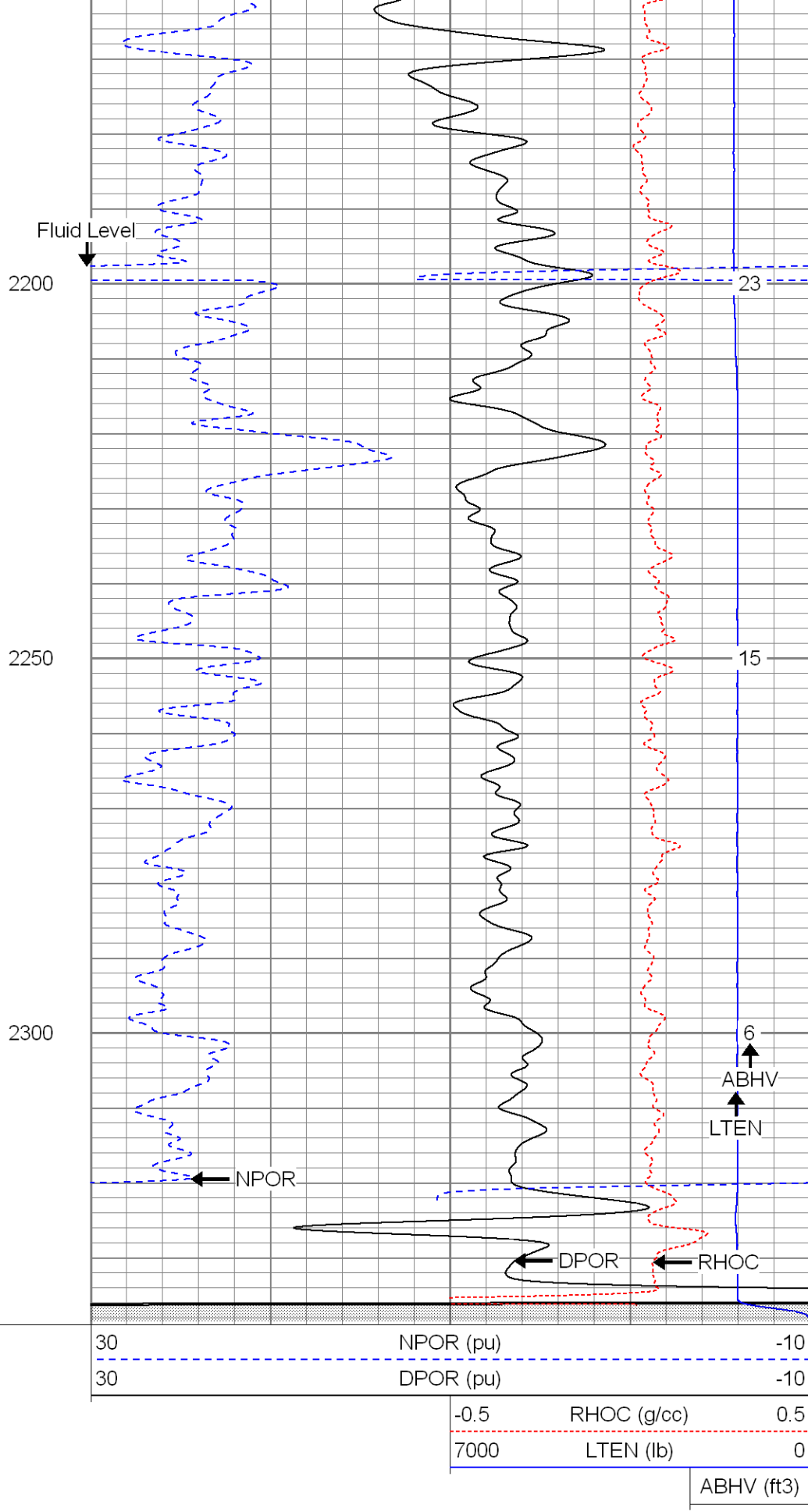
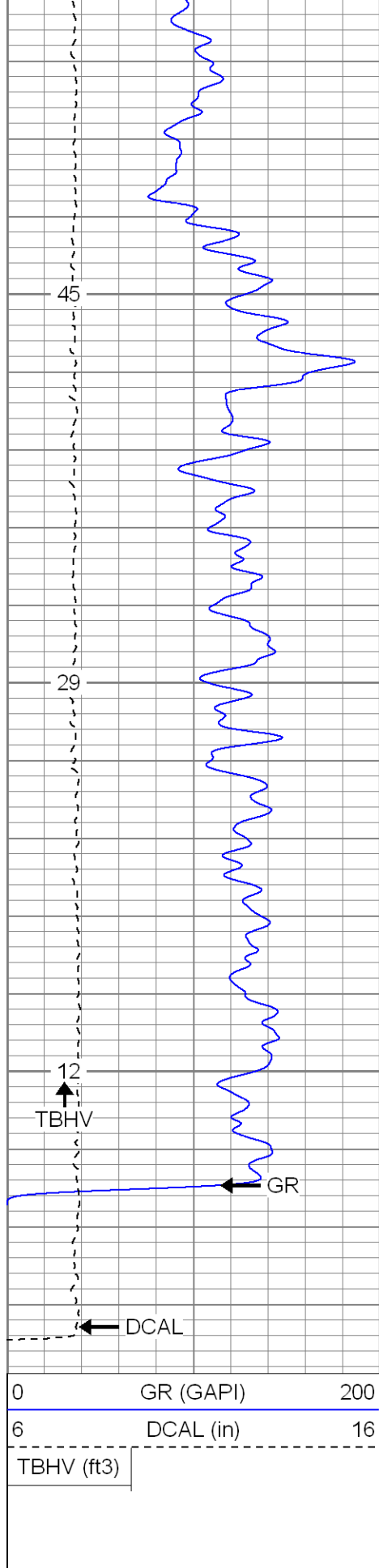












SUPERIOR
Black Lick, Pa.
Mercer, Pa.

Repeat Pass



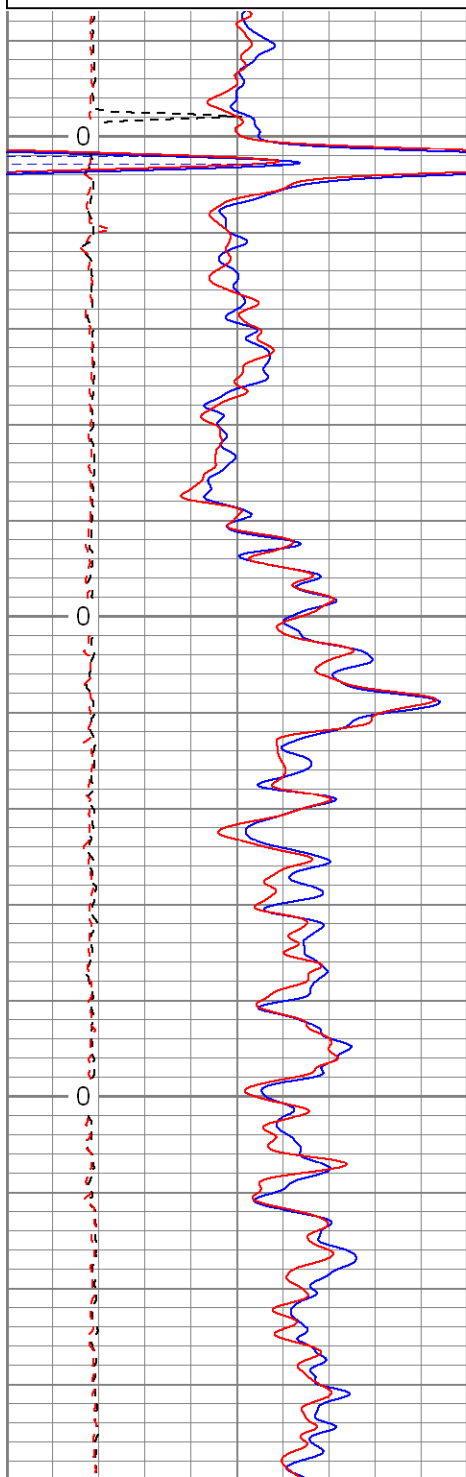
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

Repeat Pass

Database File: xtoac0404.db
Dataset Pathname: pass6.1
Presentation Format: cdnl
Dataset Creation: Sun Aug 10 20:20:24 2008 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

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

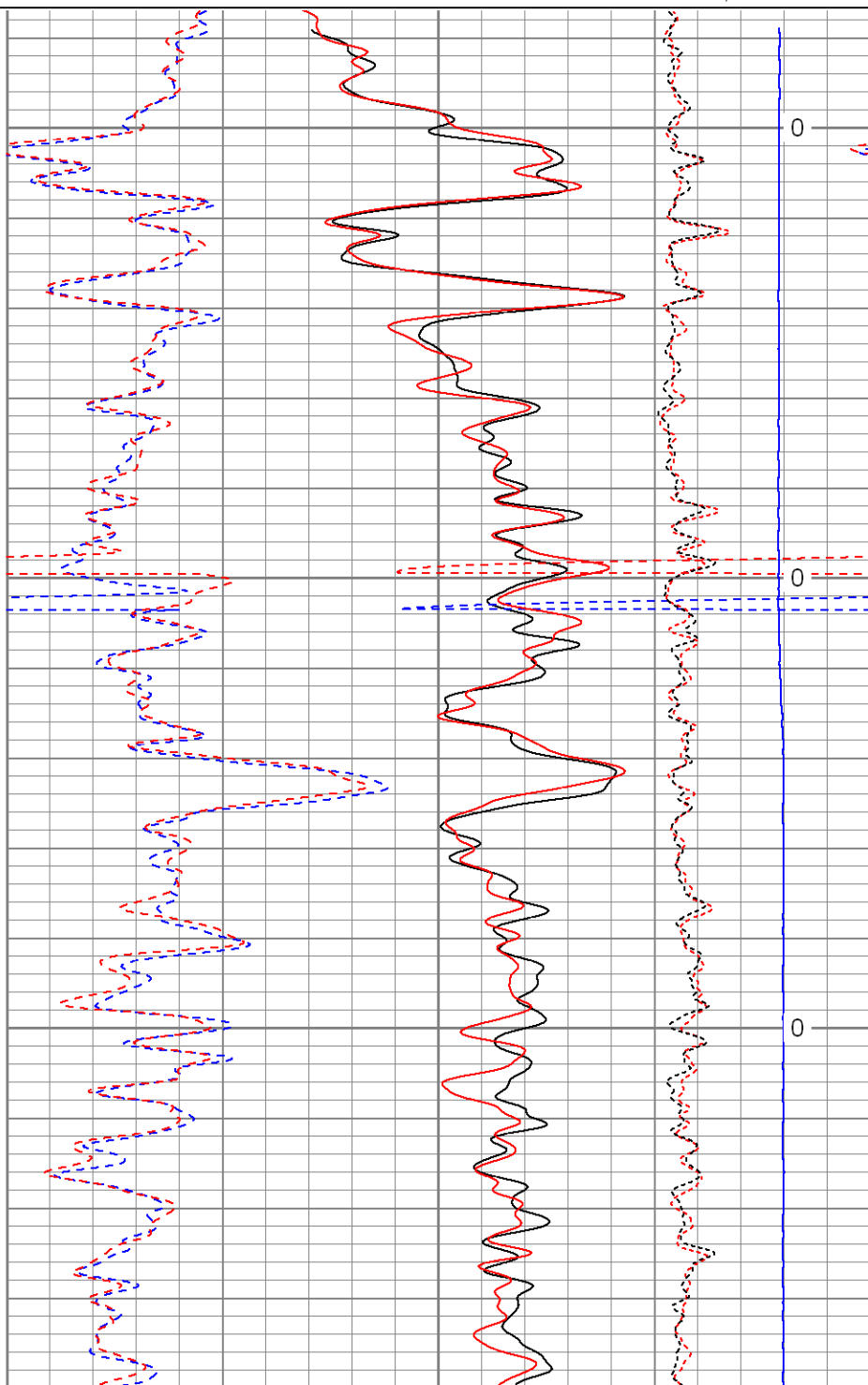
30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
ABHV (ft3)		

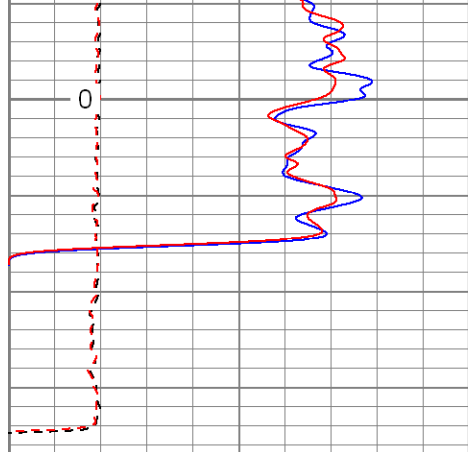


2150

2200

2250





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

2300



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
7000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
ABHV (ft3)		



SUPERIOR

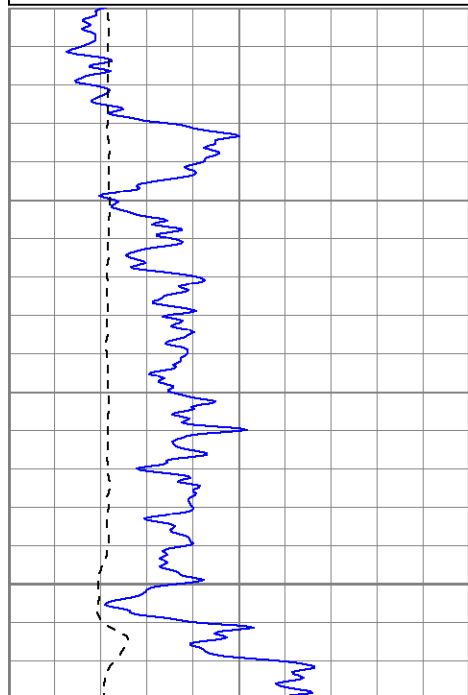
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

High Resolution Pass

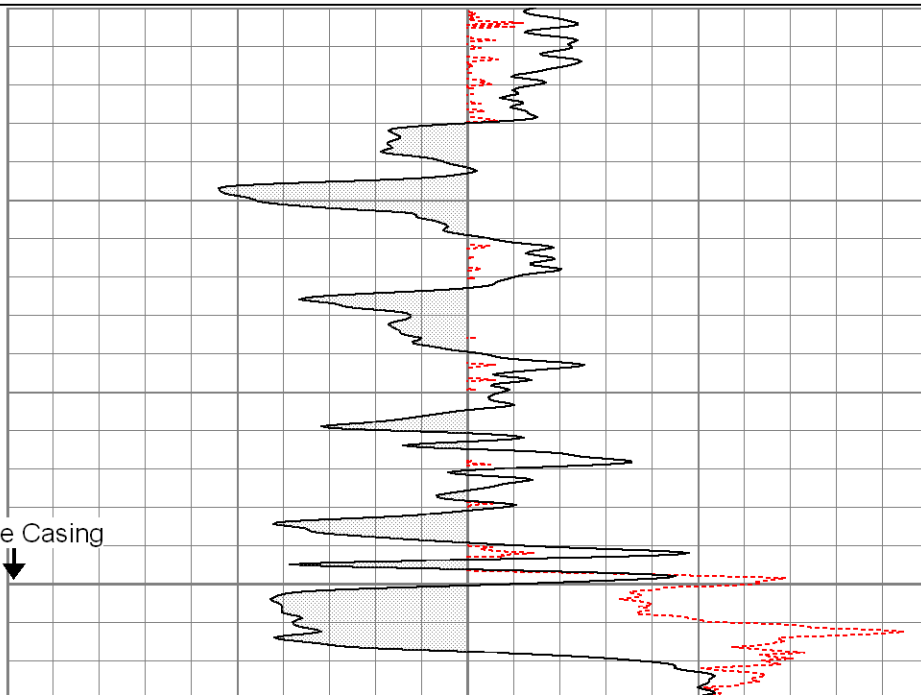
Database File: xtoac0404.db
Dataset Pathname: pass7.3
Presentation Format: cdlhr
Dataset Creation: Mon Aug 11 14:40:01 2008 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:120

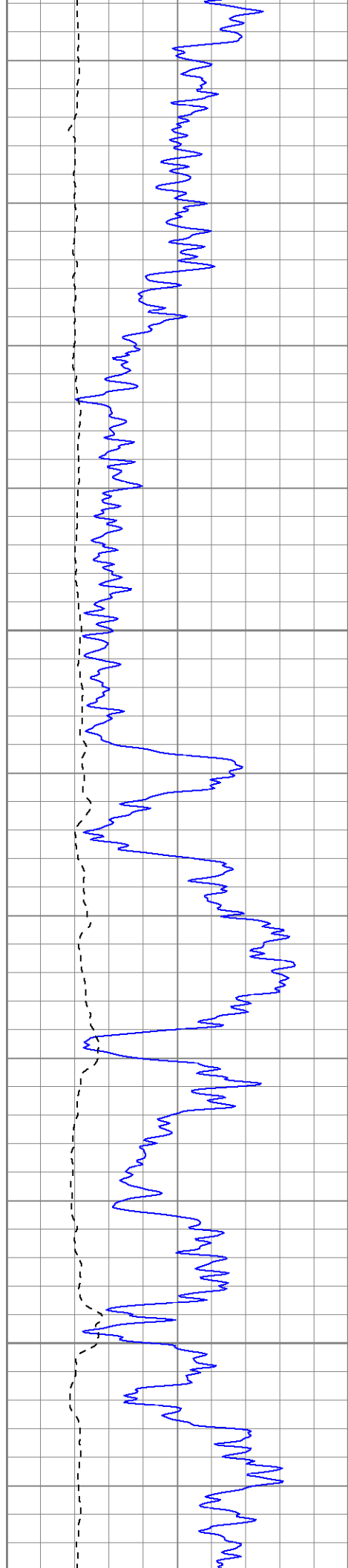
0	GR (GAPI)	200
6	DCAL (in)	16

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



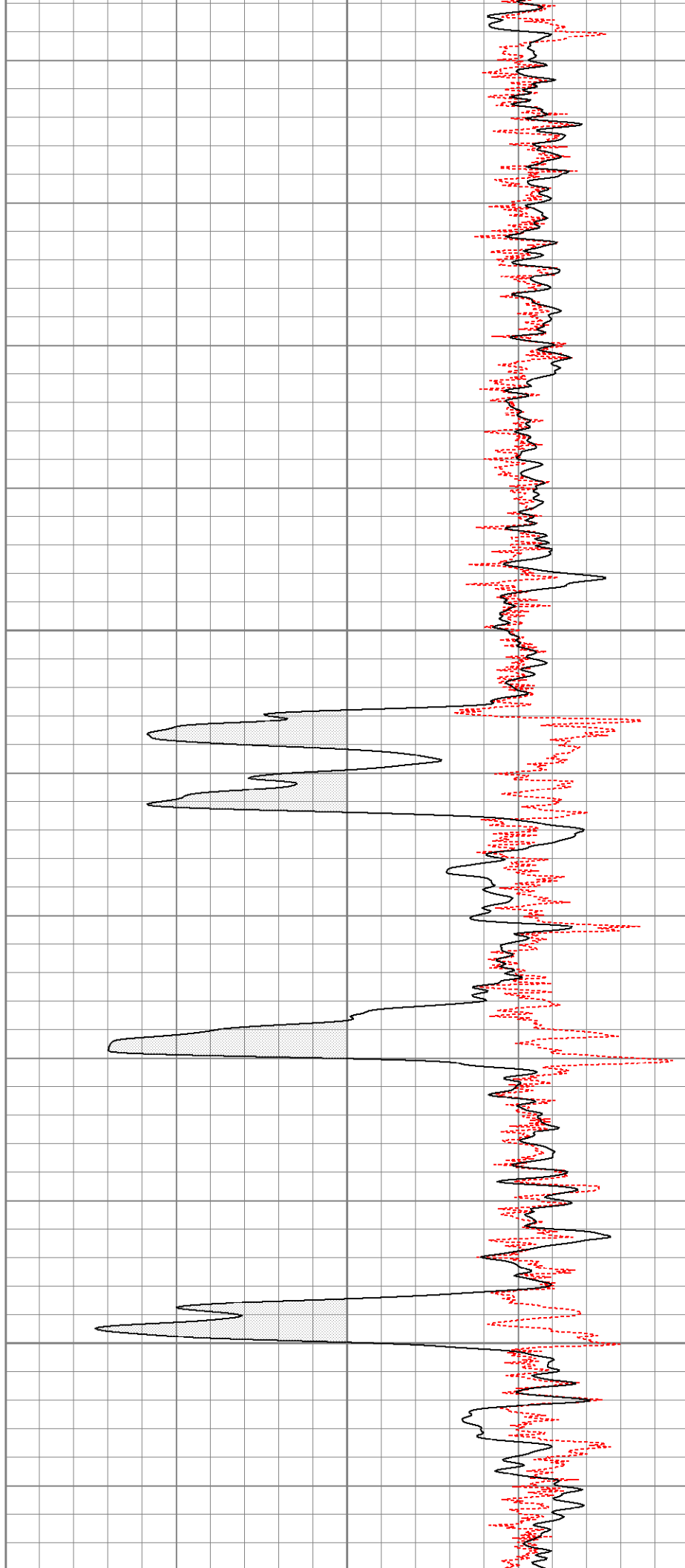
Surface Casing
↓
500

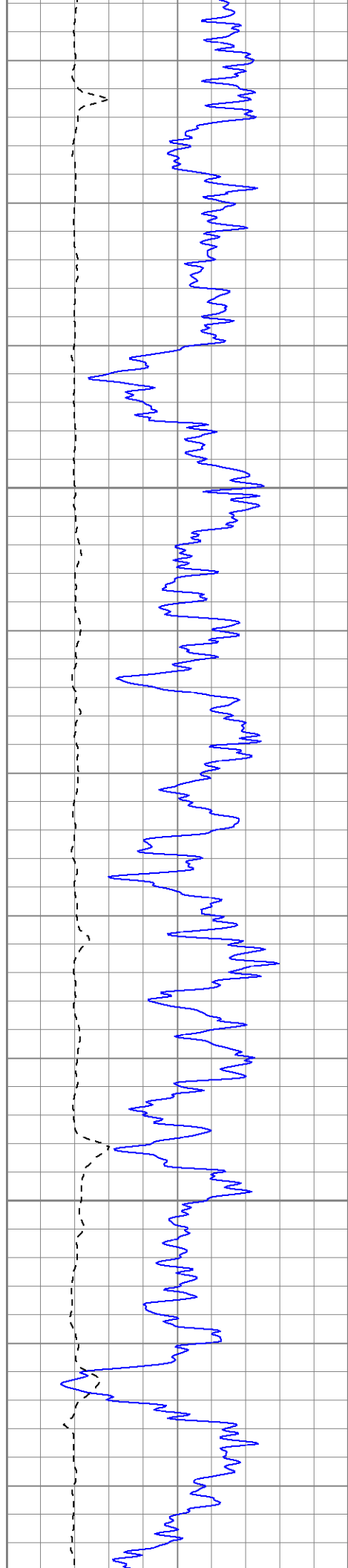




550

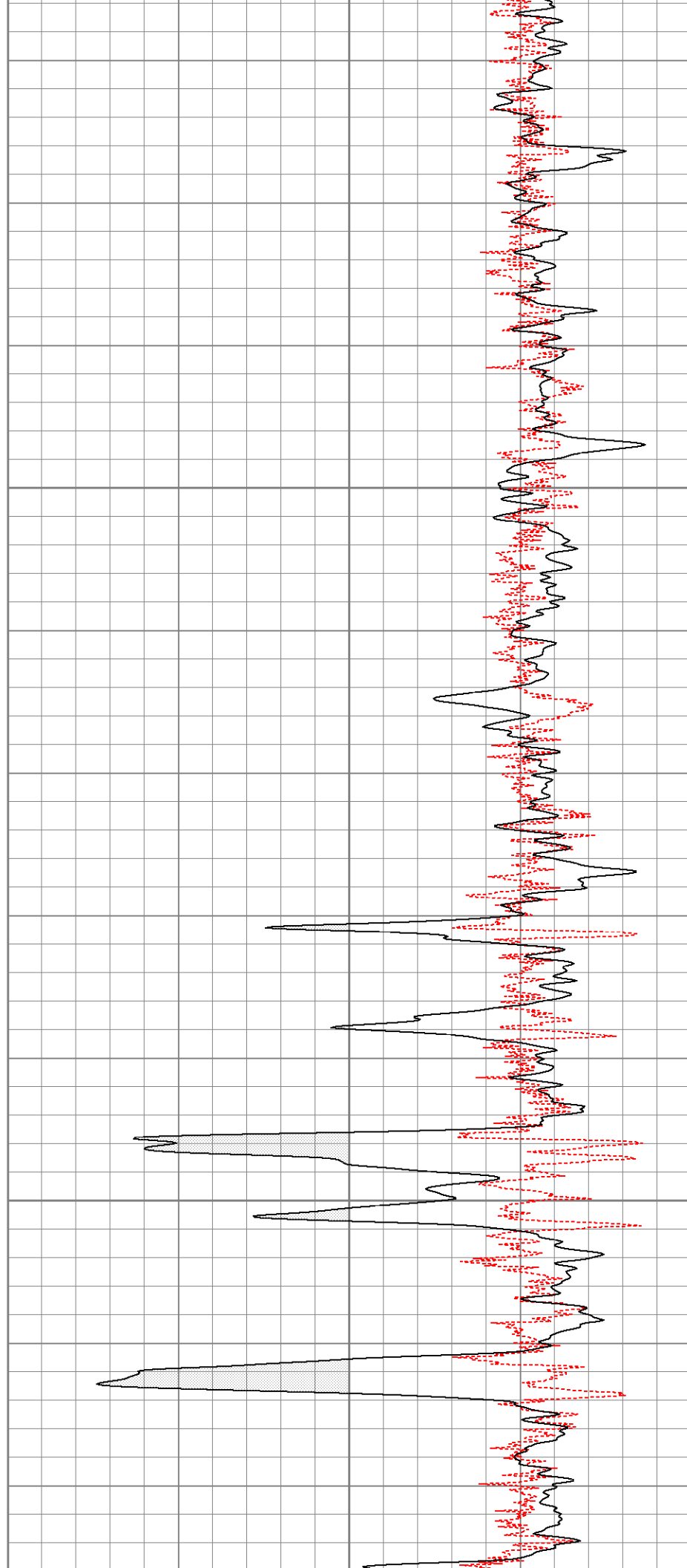
600





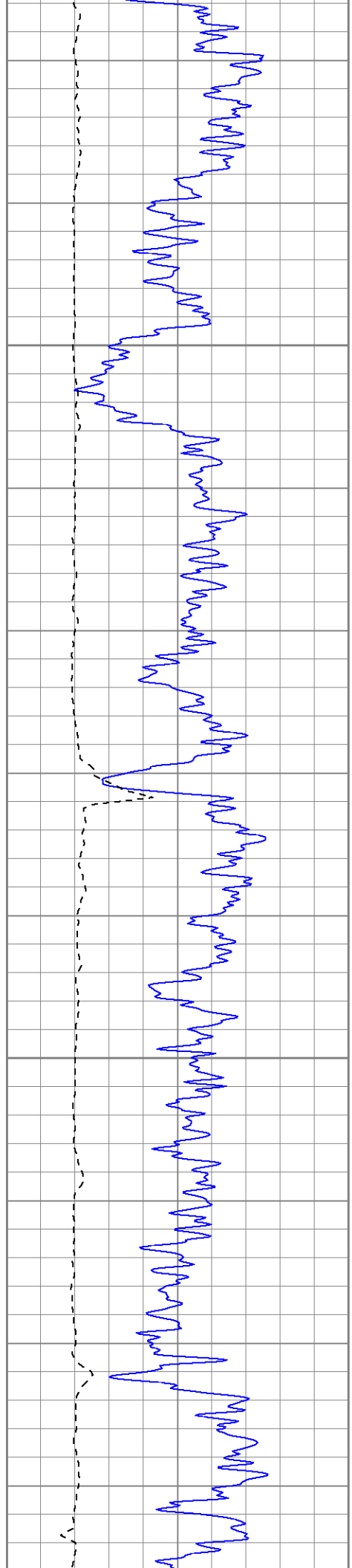
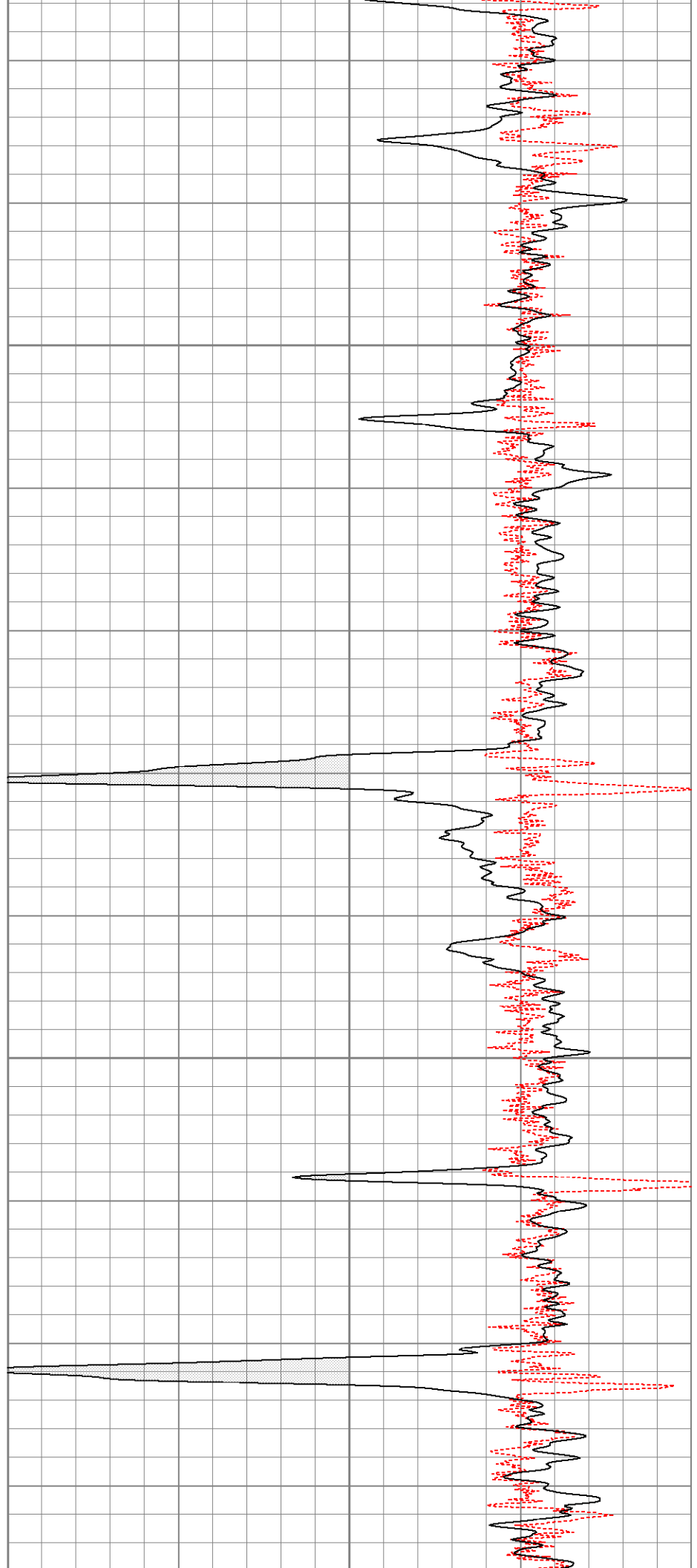
650

700



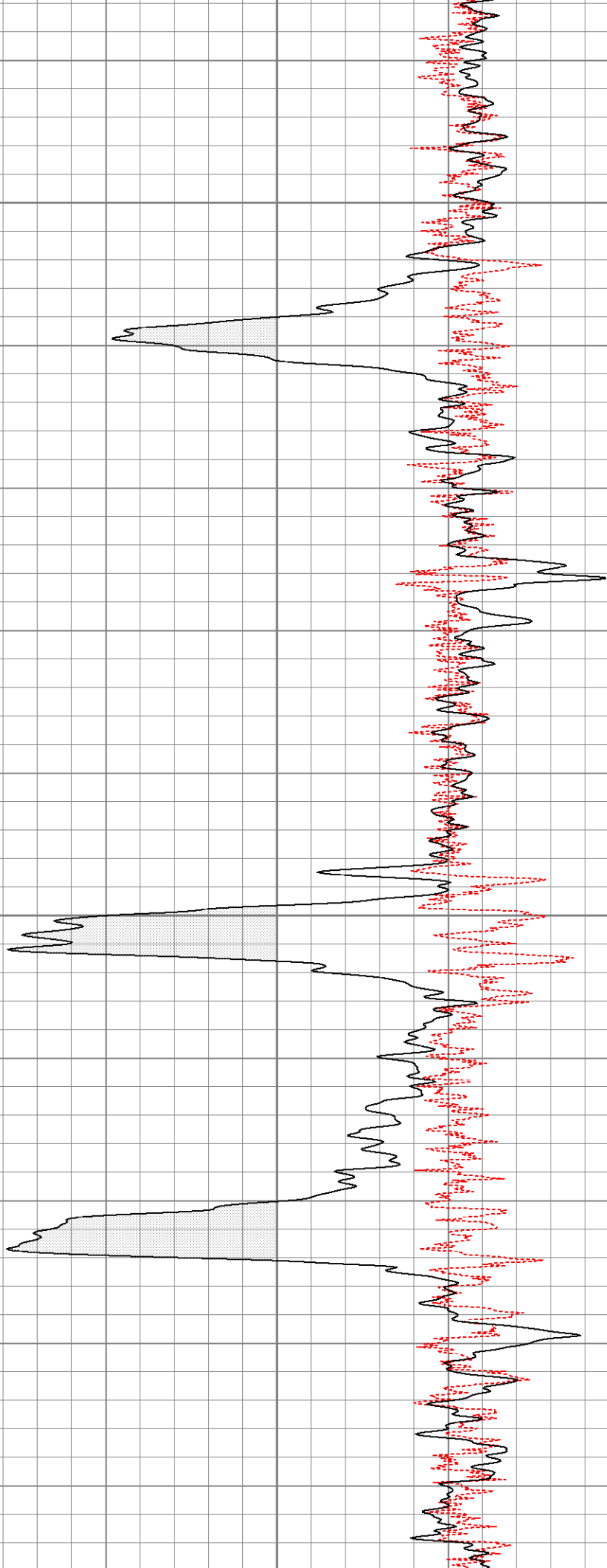
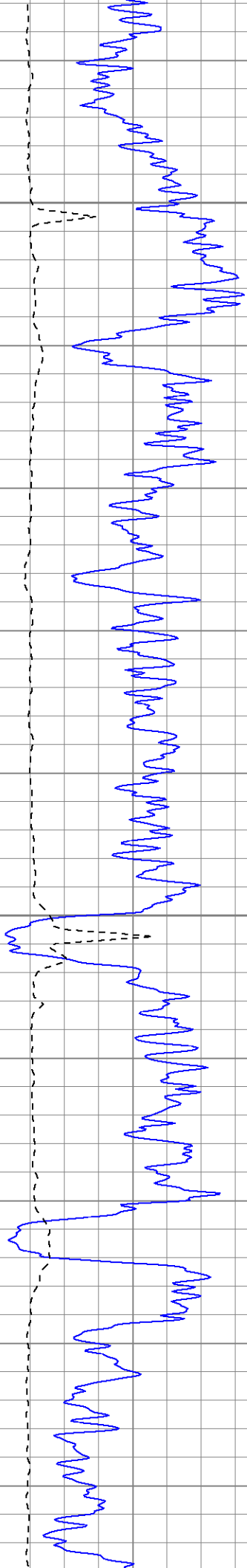
750

800



850

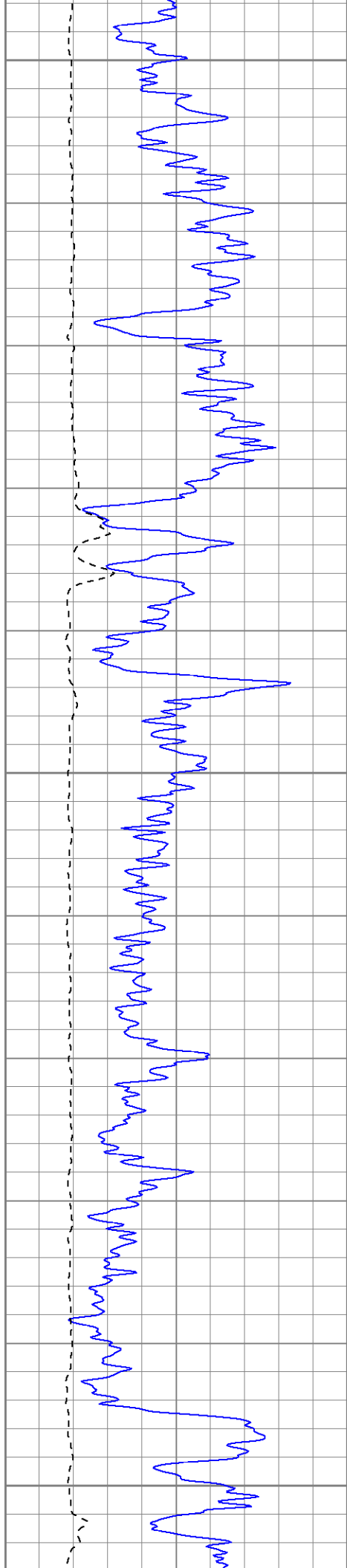
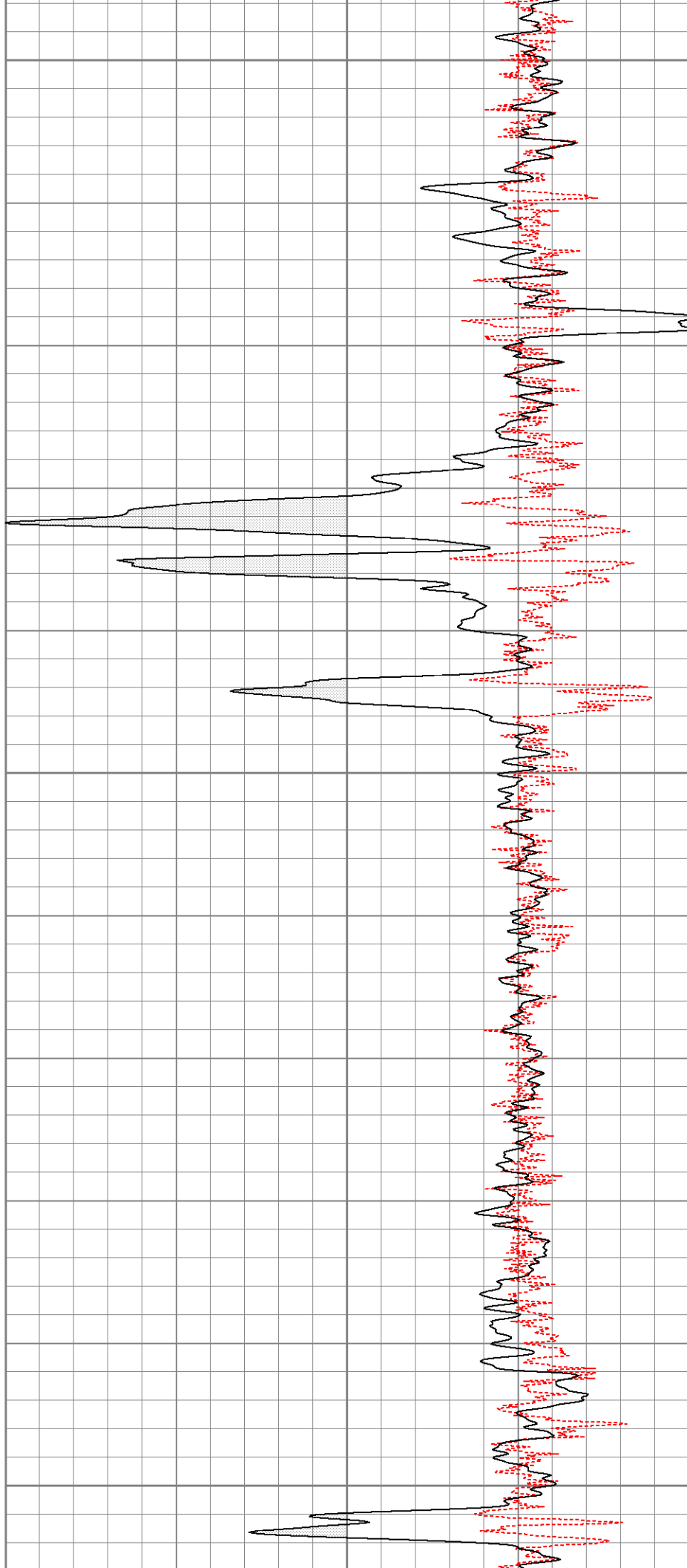
900

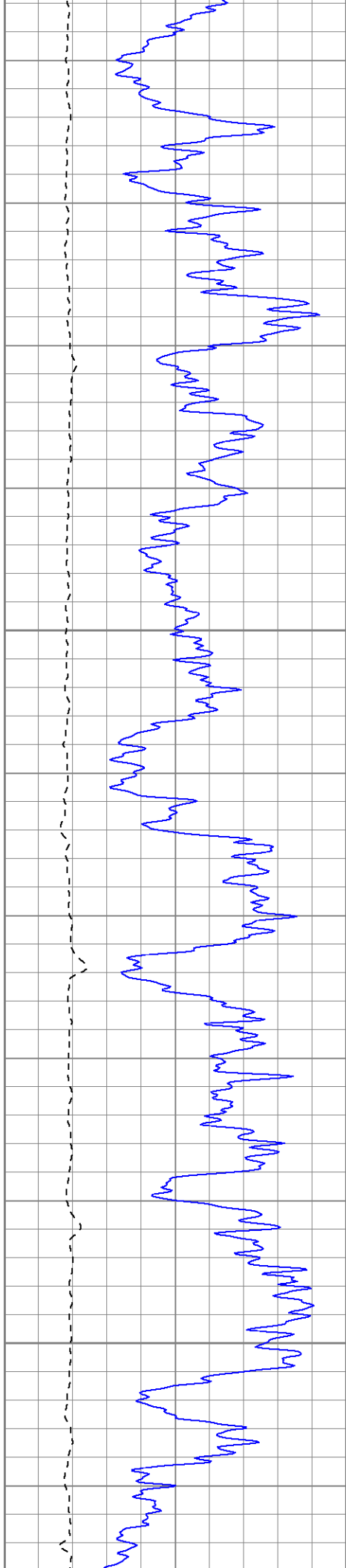


950

1000

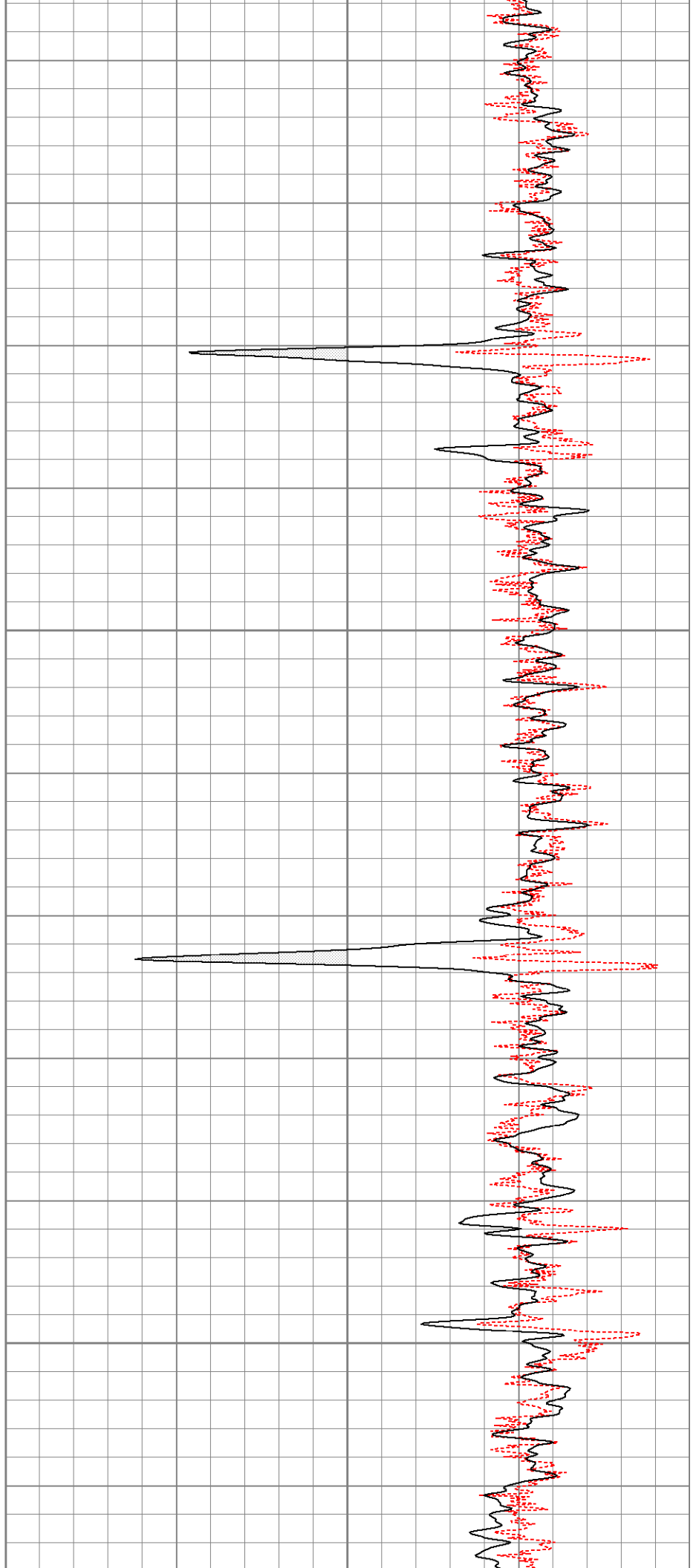
1050

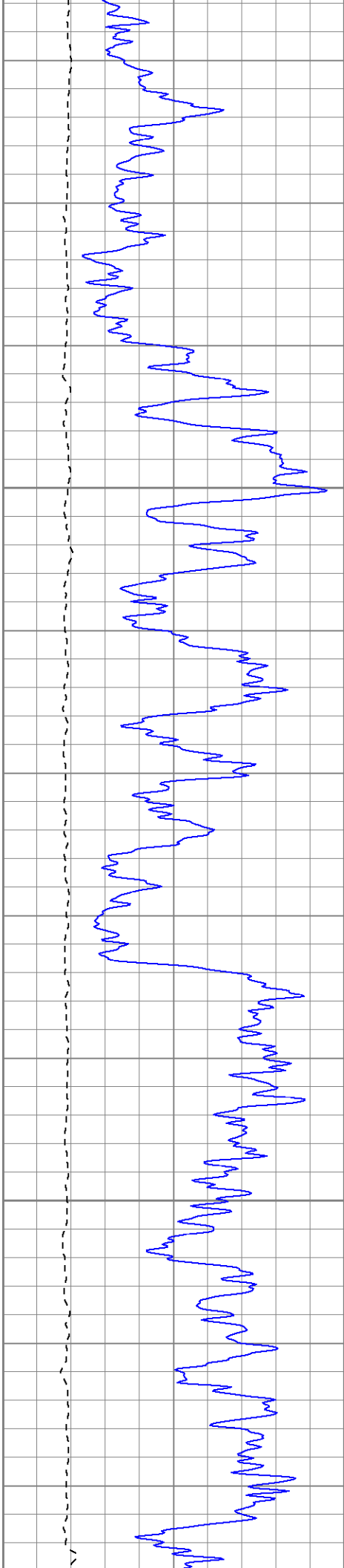




1100

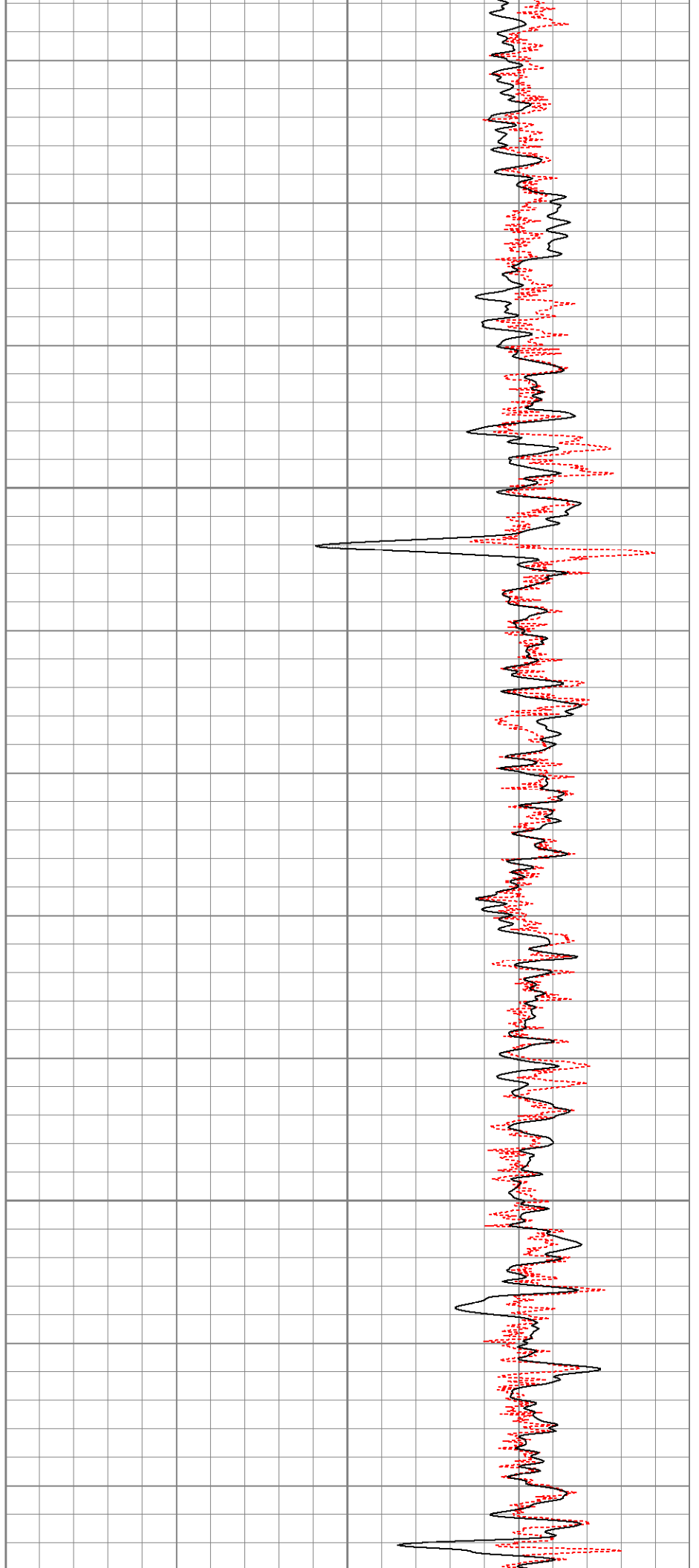
1150

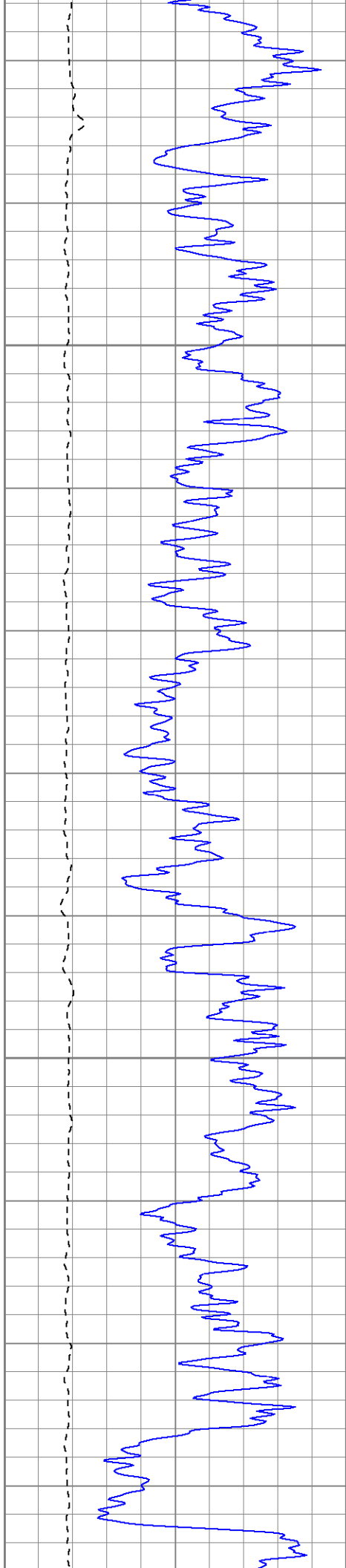




1200

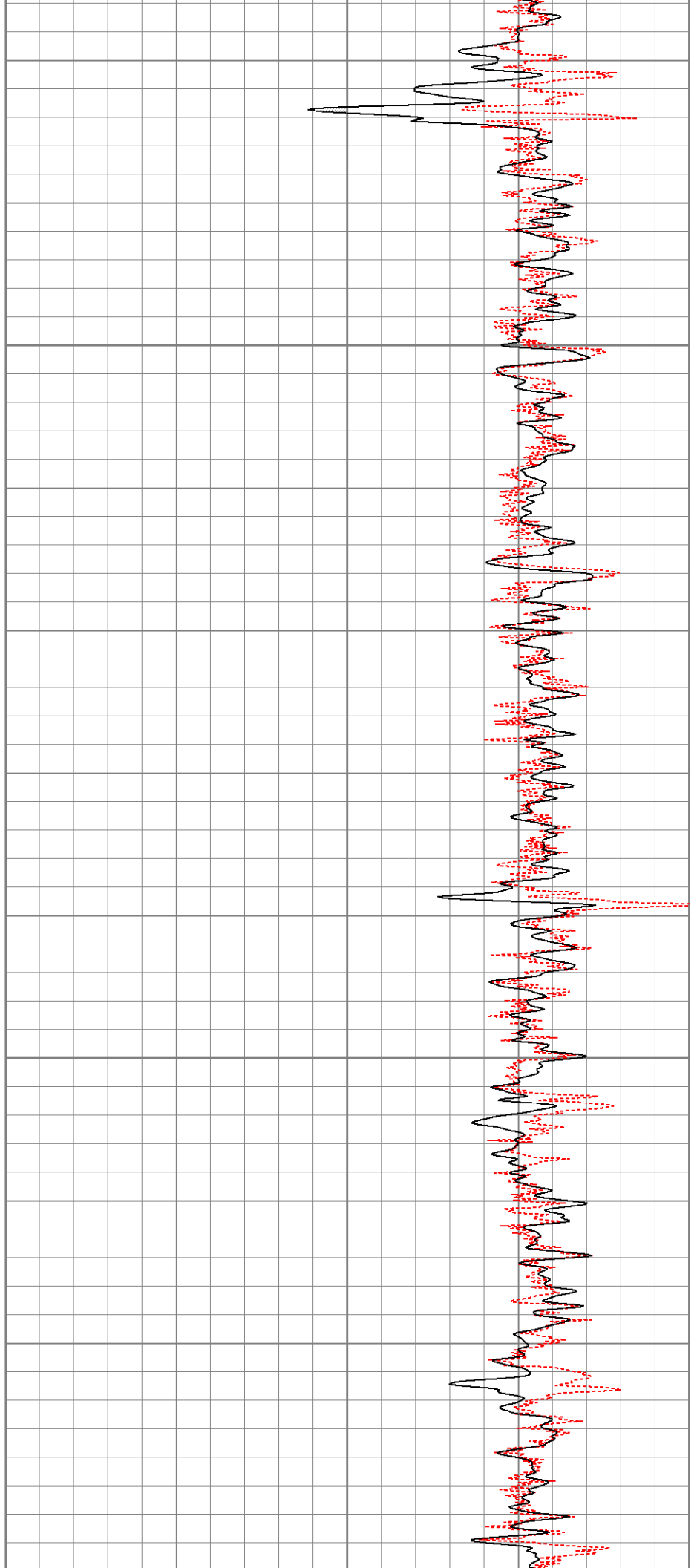
1250

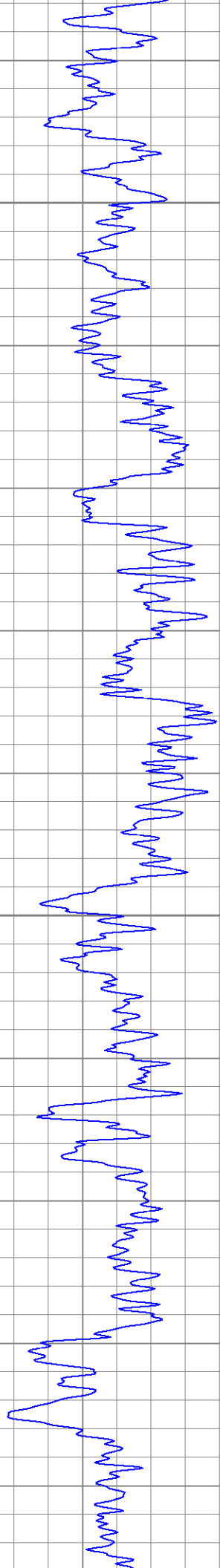




1300

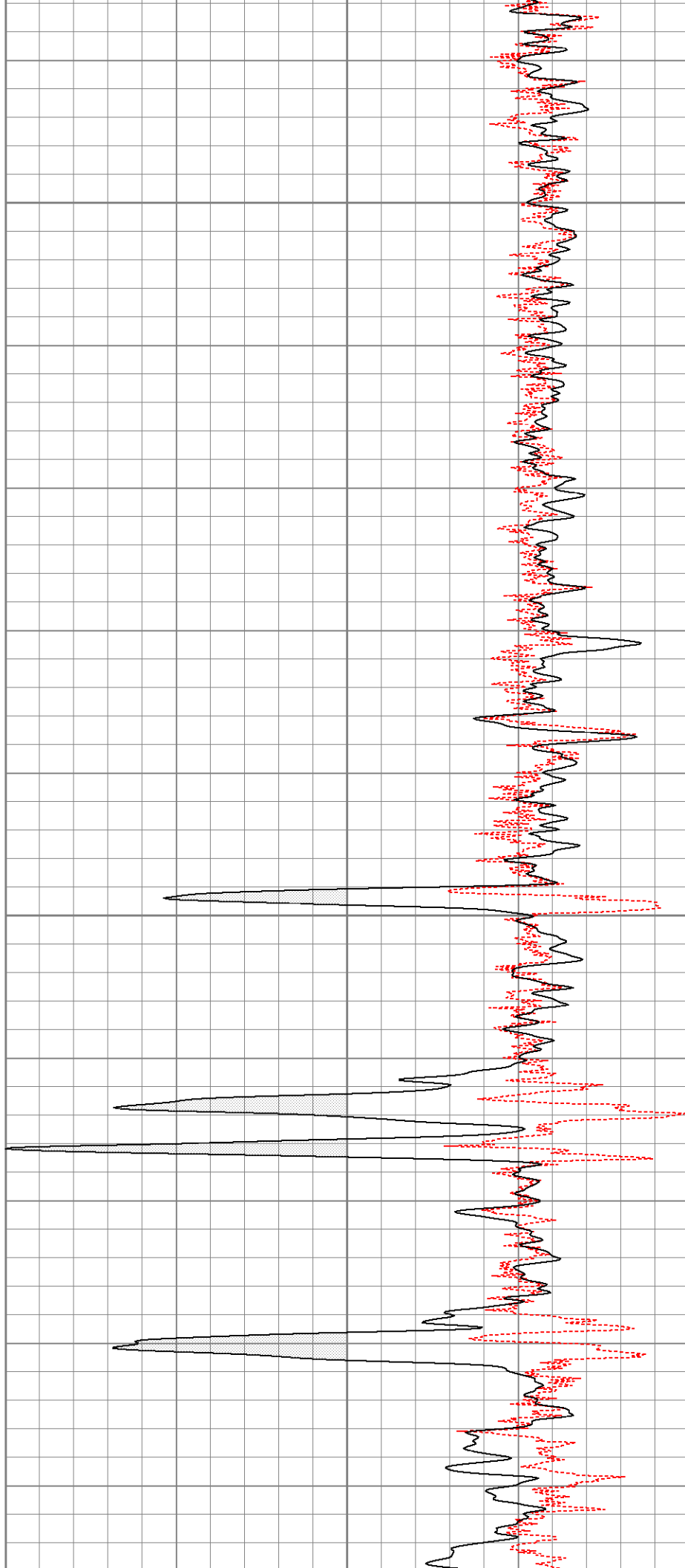
1350

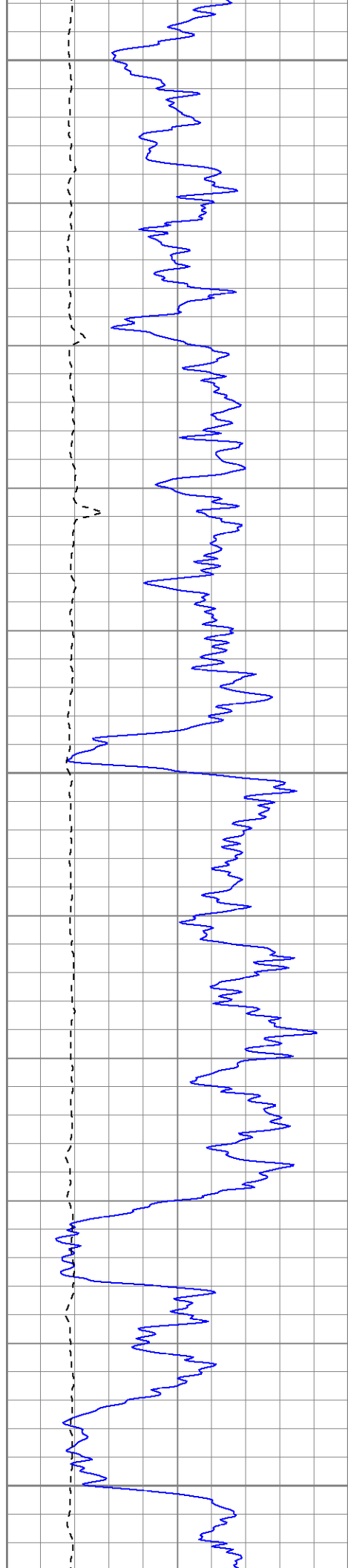




1400

1450

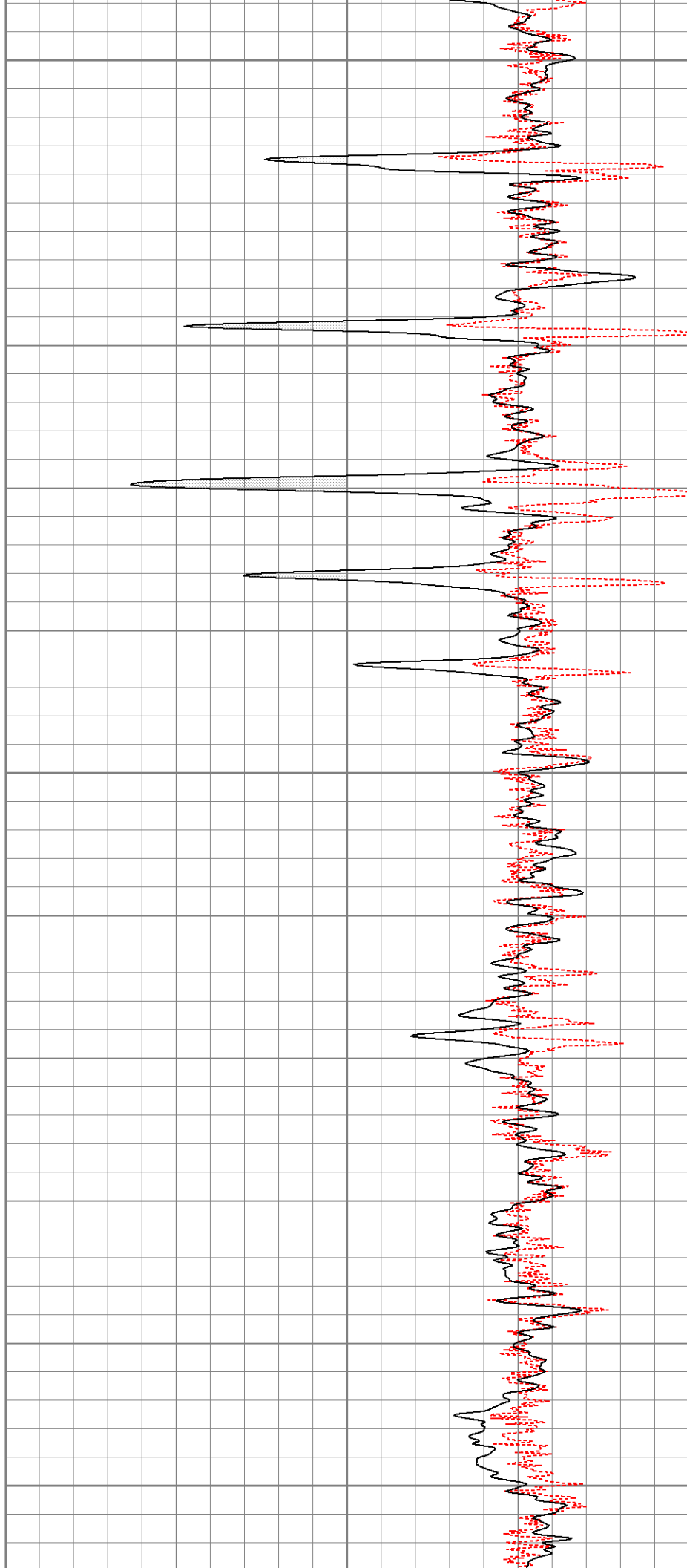


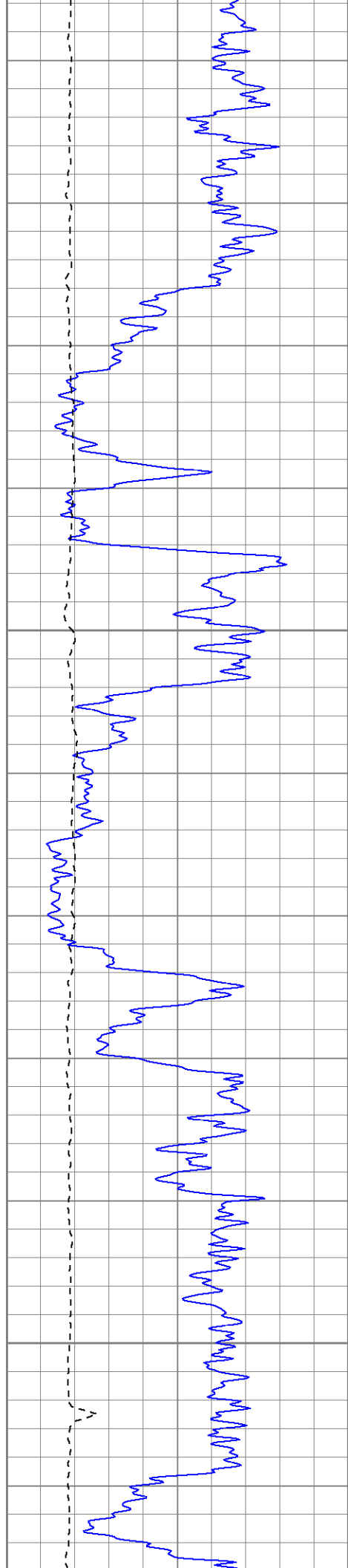


1500

1550

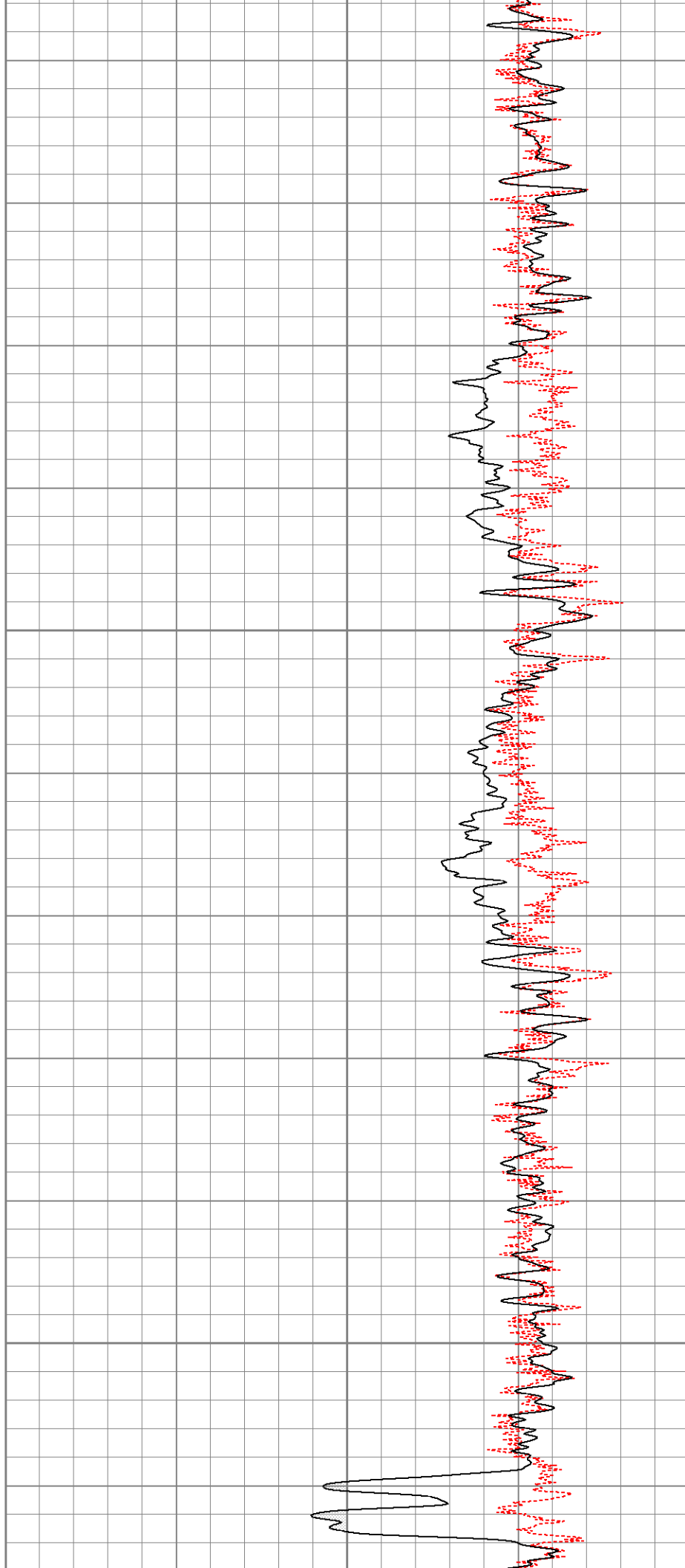
1600

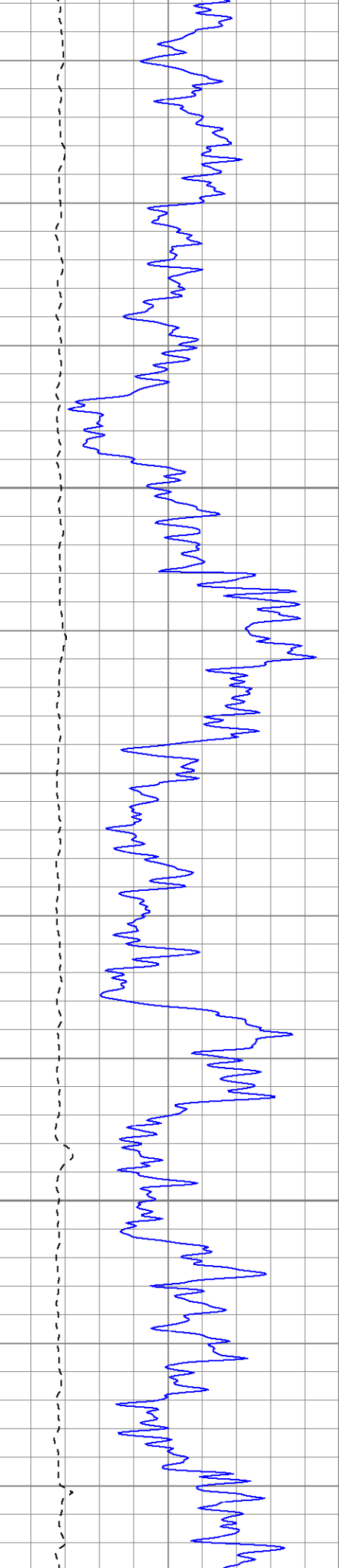




1650

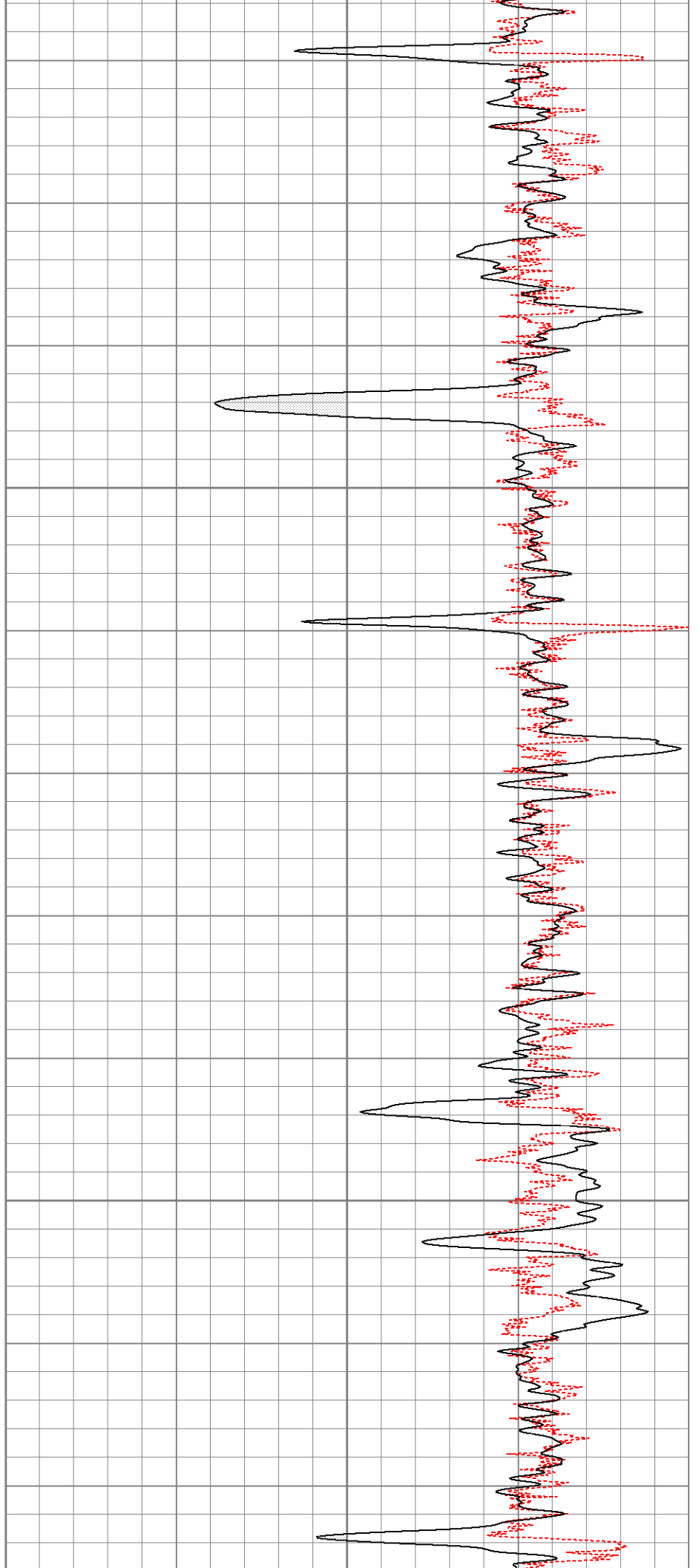
1700

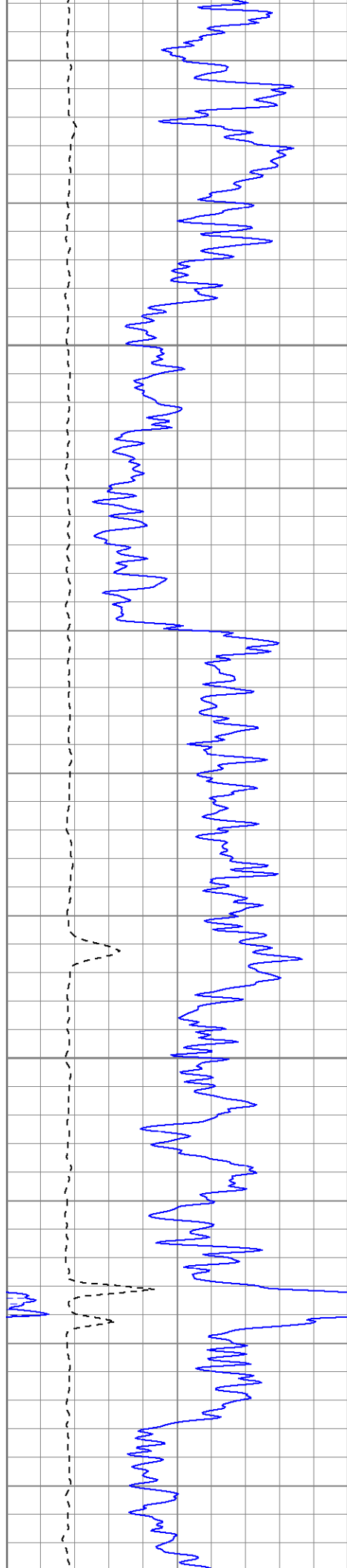




1750

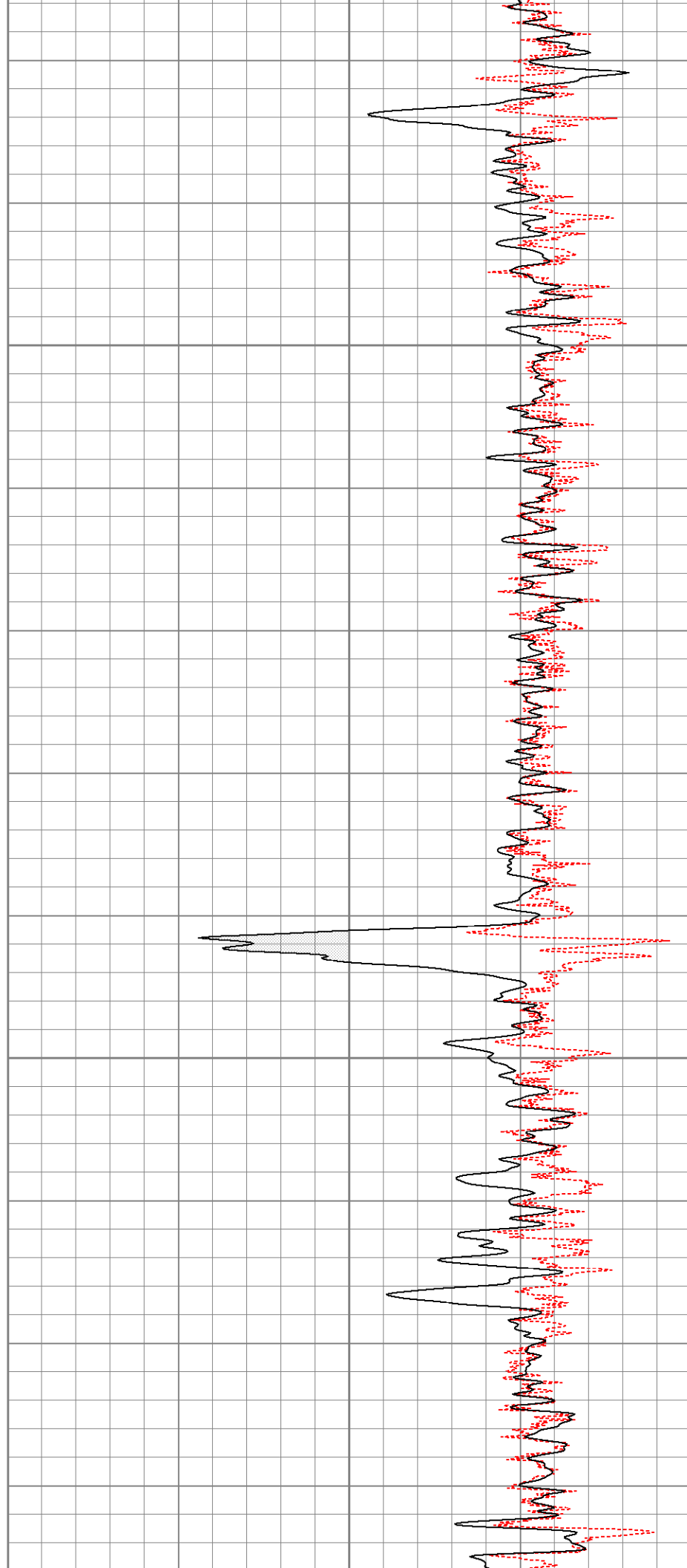
1800





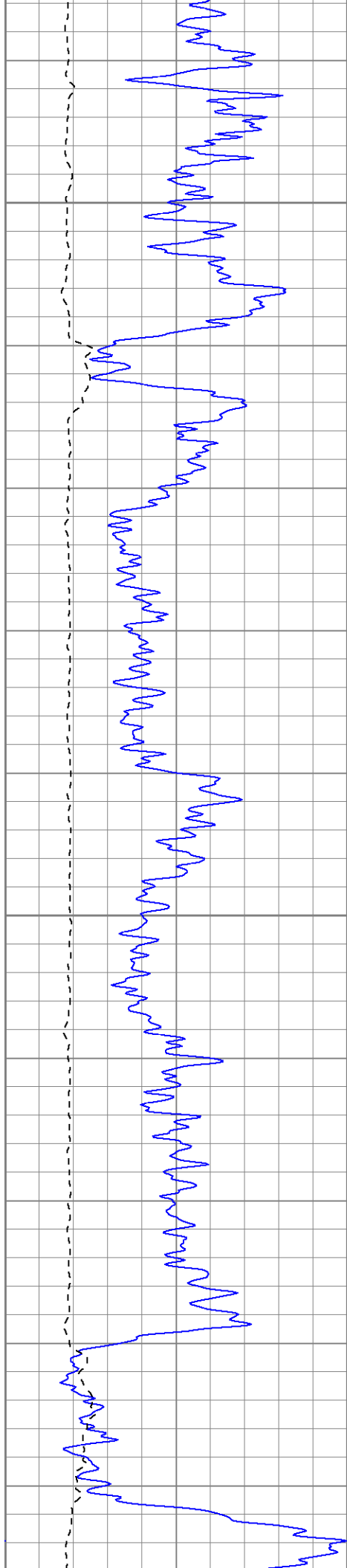
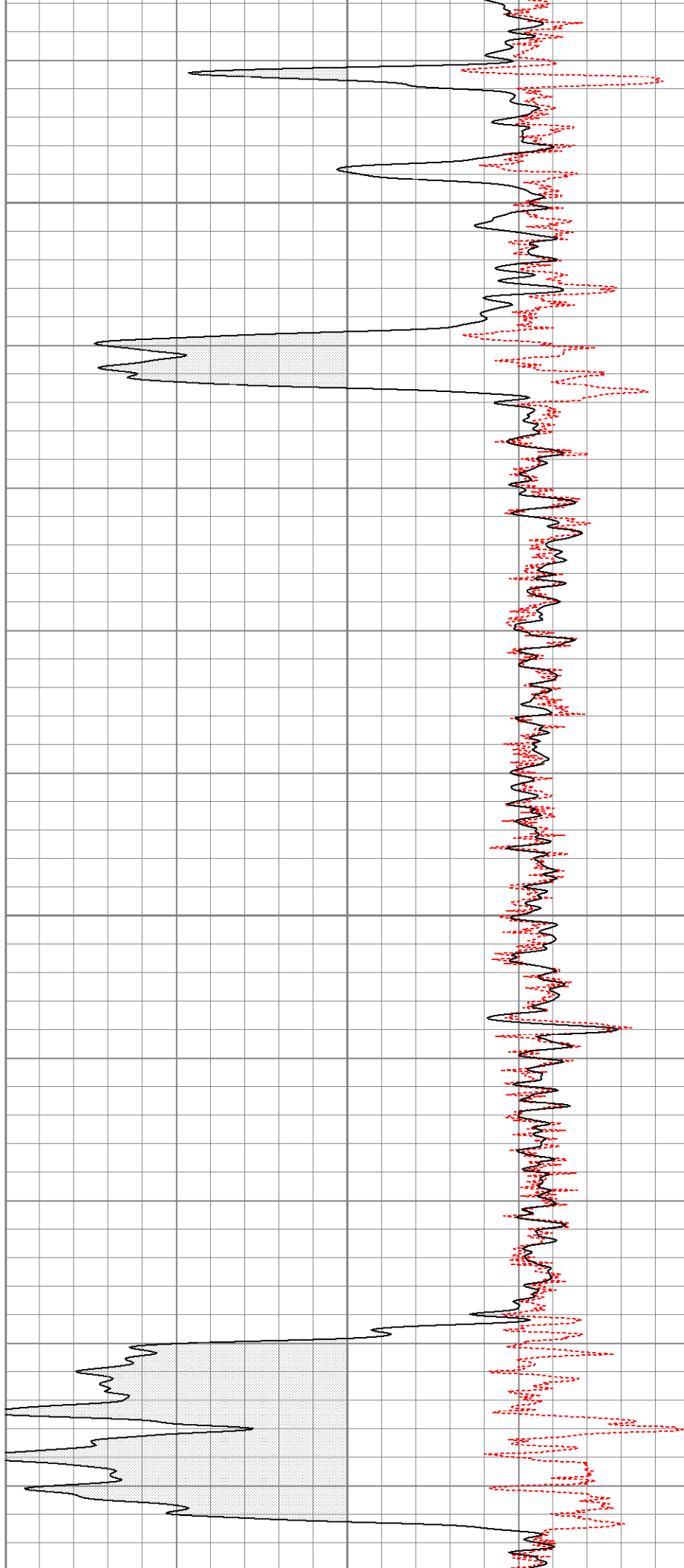
1850

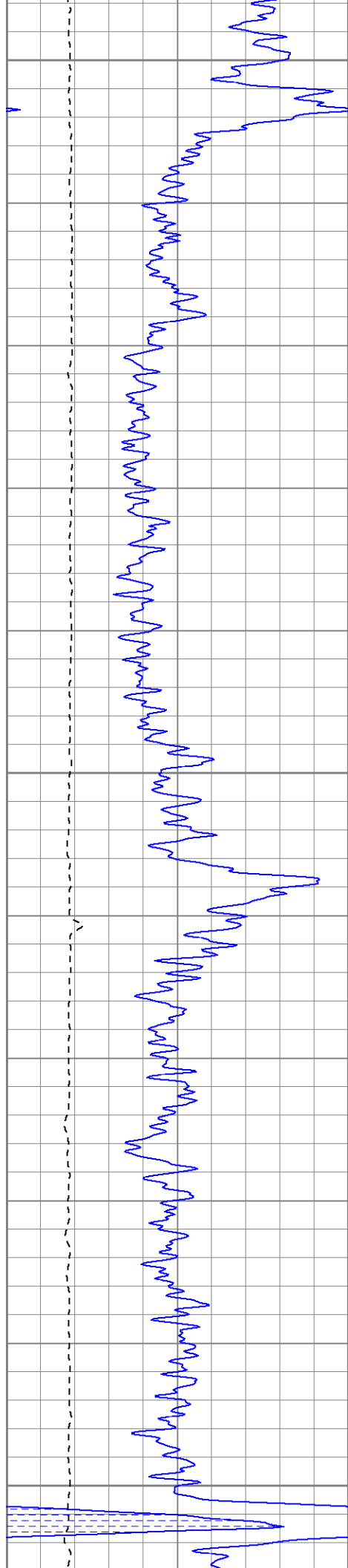
1900



1950

2000

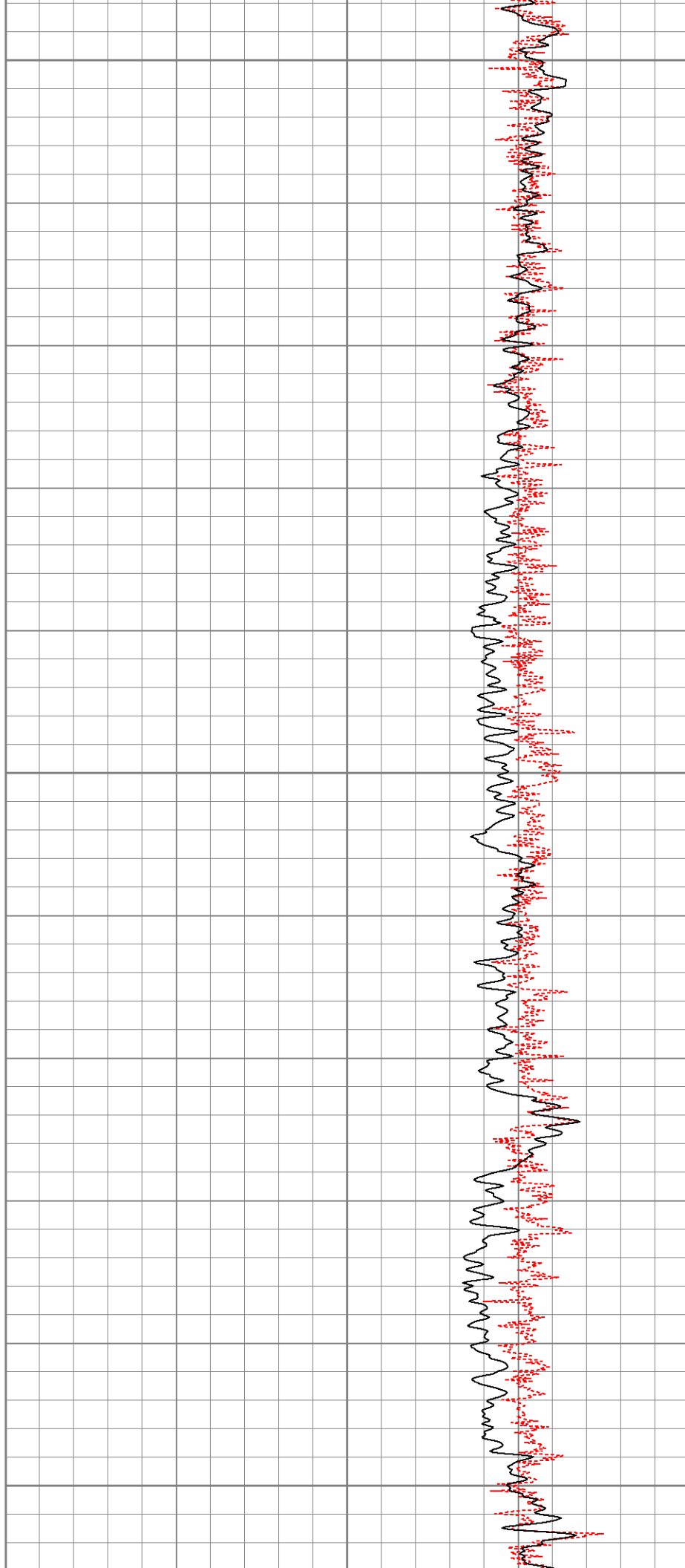


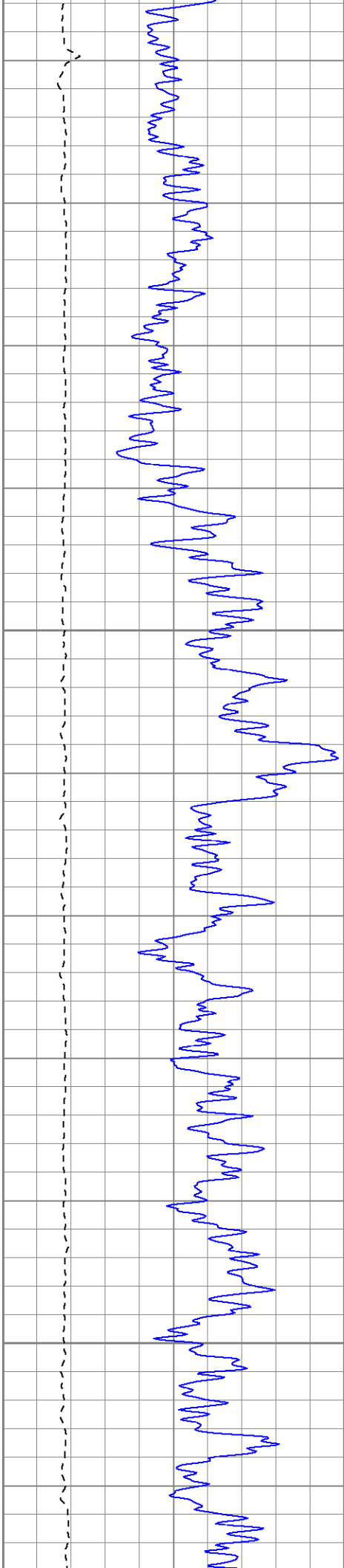


2050

2100

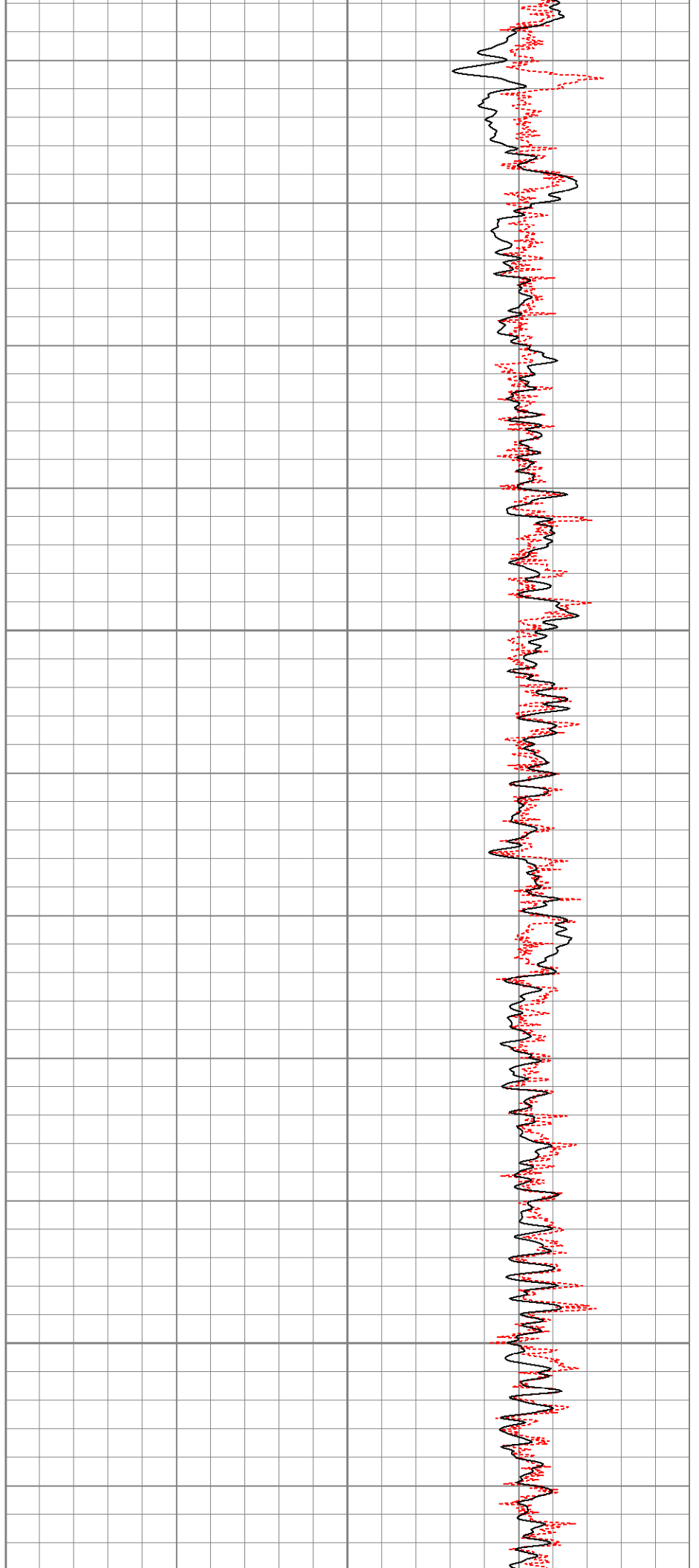
2150

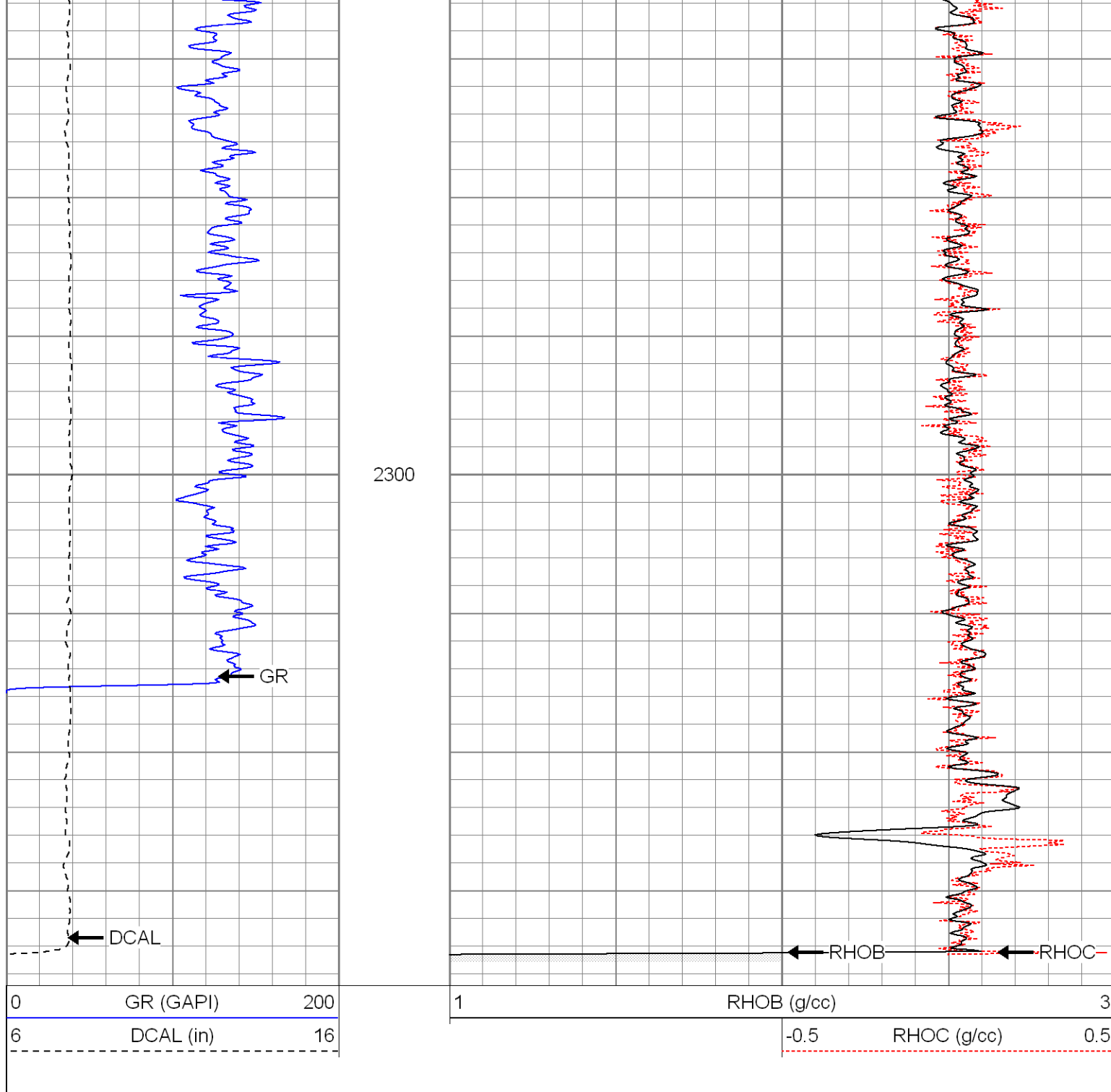




2200

2250





Calibration Report

Database File: xtoac0404.db
 Dataset Pathname: pass5
 Dataset Creation: Sun Aug 10 18:50:38 2008 by Log Open-Cased 071220

Compensated Density Calibration Report

Serial-Model: PTXCDL-PTS
 Source / Verifier: /
 Master Calibration Performed: Sat Aug 09 15:54:11 2008

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	768.89	306.41	cps
Aluminum	2.590	g/cc	172.78	212.51	cps

Spine Angle = 76.23

Density/Spine Ratio = 0.572

	Size		Reading
Small Ring	8.00	in	912.47
Large Ring	14.00	in	1446.52

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Thu Jul 24 15:21:22 2008

 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: Tue Aug 05 10:08:44 2008

 Calibrator Value: 1 NAPI

 Calibrator Reading: 1 cps

 Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	16.38		NEU-PROBE (5108) Probe Epithermal	4.92	3.63	85.00
GR	10.85		GR-OH (2001) 2001	3.56	3.25	40.00
LSD	2.31		CDL-PTS (PTXCDL)	9.69	4.00	201.00
DCAL	2.02					
SSD	1.77					
HEADVOLT	0.00					

Dataset: xtoac0404.db: field/well/run1/pass5
 Total Length: 18.17 ft
 Total Weight: 326.00 lb

Total Weight:	629.69 lb
O.D.	4.00 in