



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Hill Ranch 25-16
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09301 00

696' FSL & 571' FEL

SEC 25 TWP 34S RGE 67W

Permanent Datum Ground Level Elevation 7751'
Log Measured From Ground Level
Drilling Measured From Ground Level

Other Services
DIL
Elevation
K.B. -----
D.F. -----
G.L. 7751'

Date 8-30-07

Run Number One

Depth Driller 2450'

Depth Logger 2451'

Bottom Logged Interval 2434'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 485'

Casing Logger 484'

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 10:30 A.M.

Time Logger on Bottom 12:30 P.M.

Maximum Recorded Temperature 104 DEG F

Equipment Number T697

Location Trinidad

Recorded By M. Norton

Witnessed By Mr. Don Johnson

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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

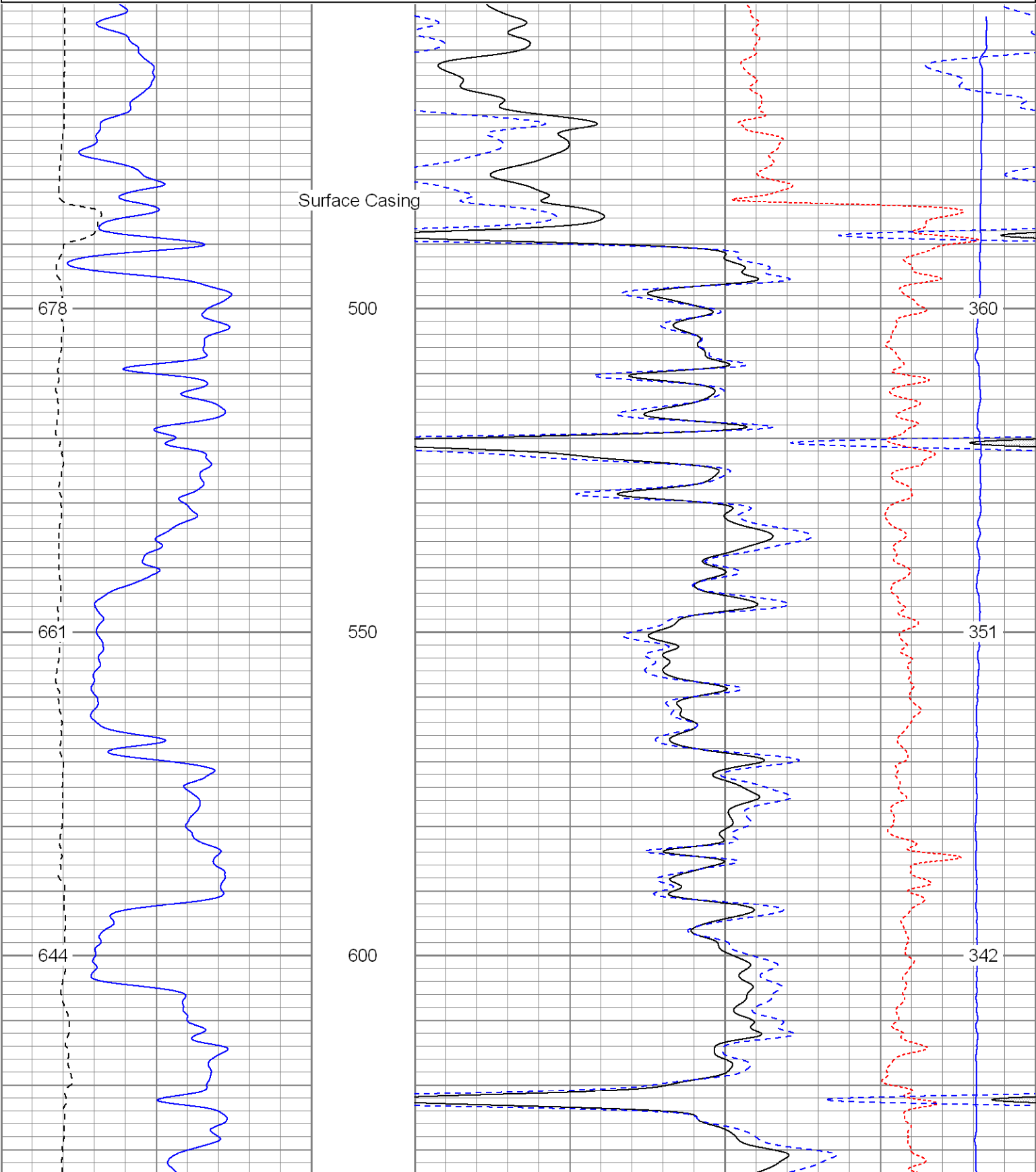
Density Neutron Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing
Well Directions:
Lorencito to XTO hill, third right to location.

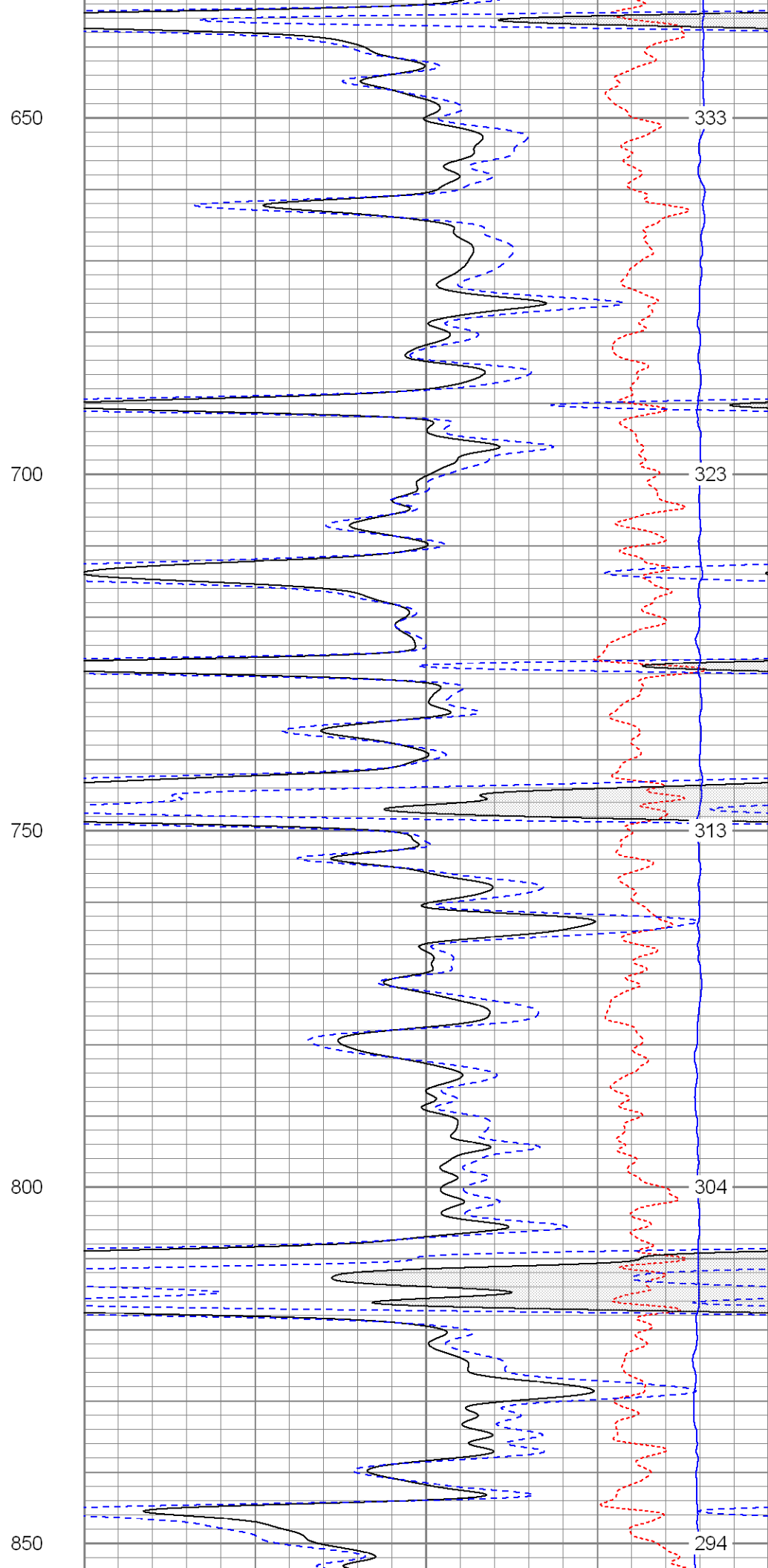
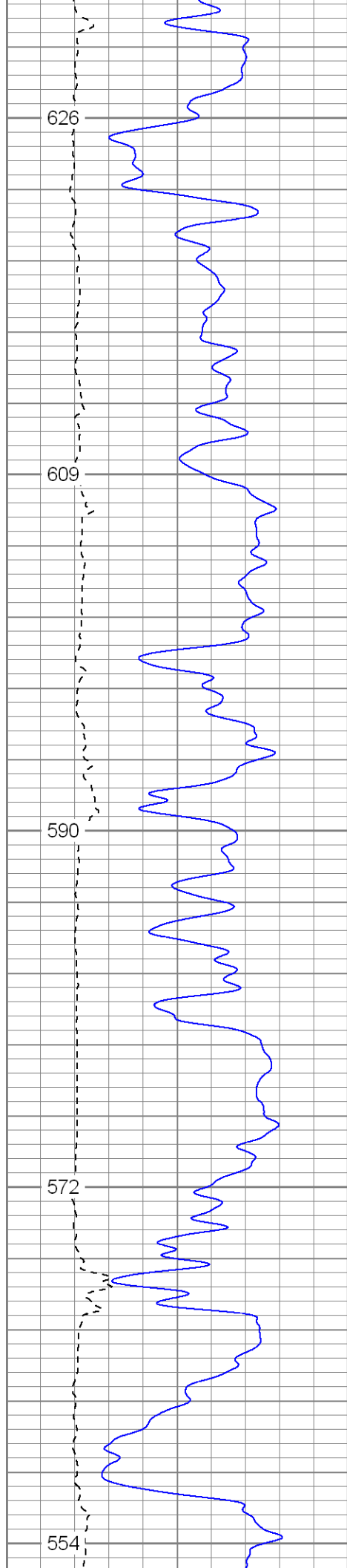


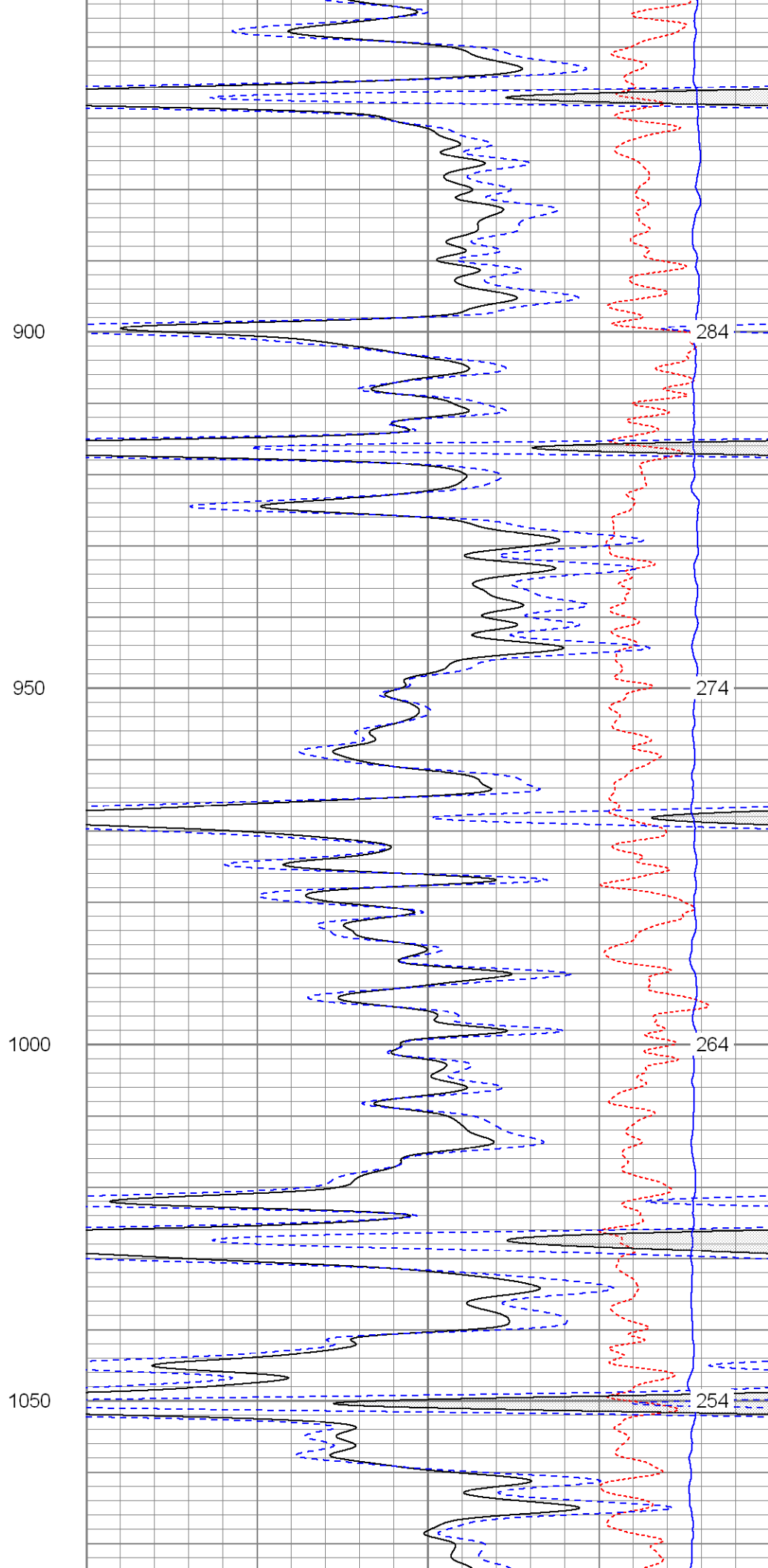
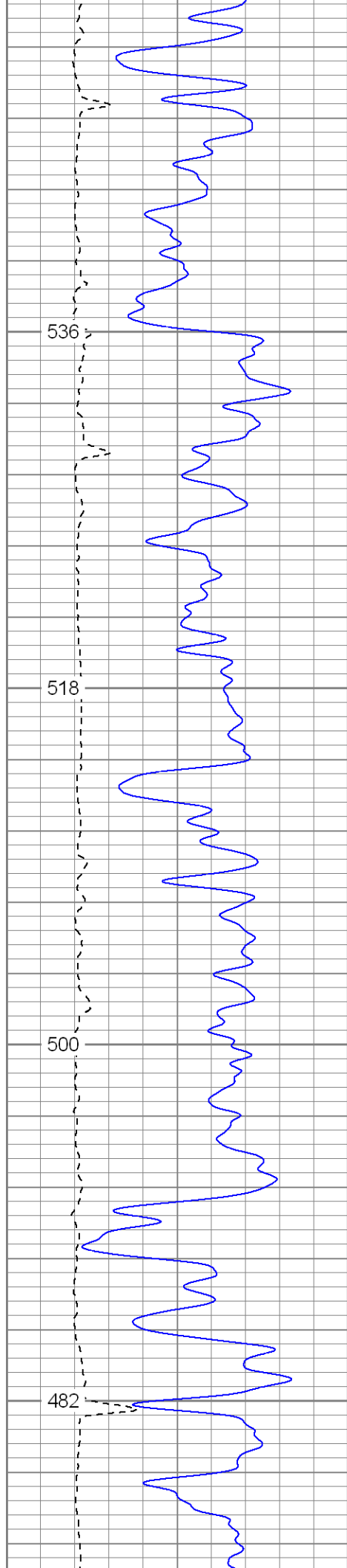
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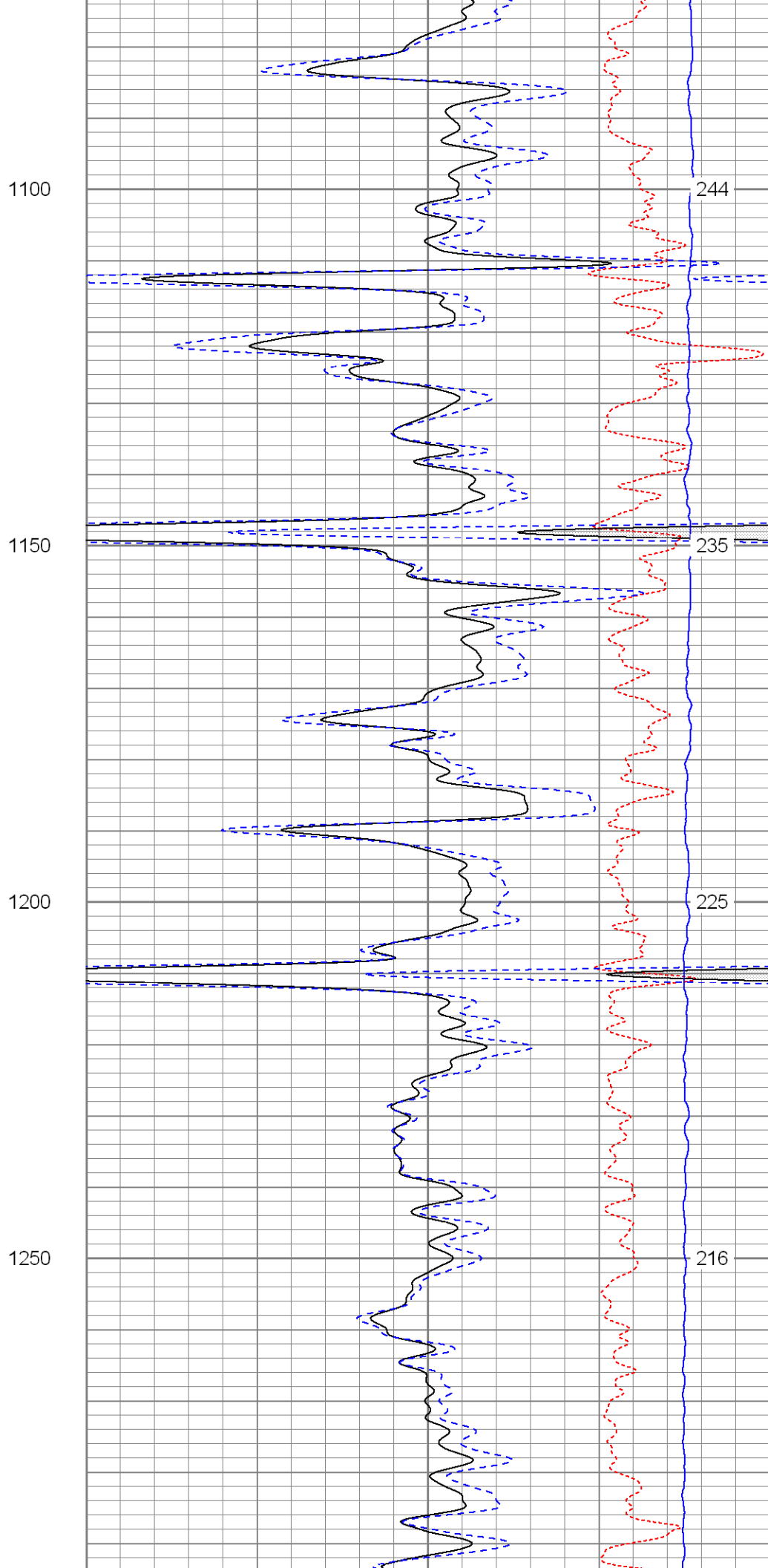
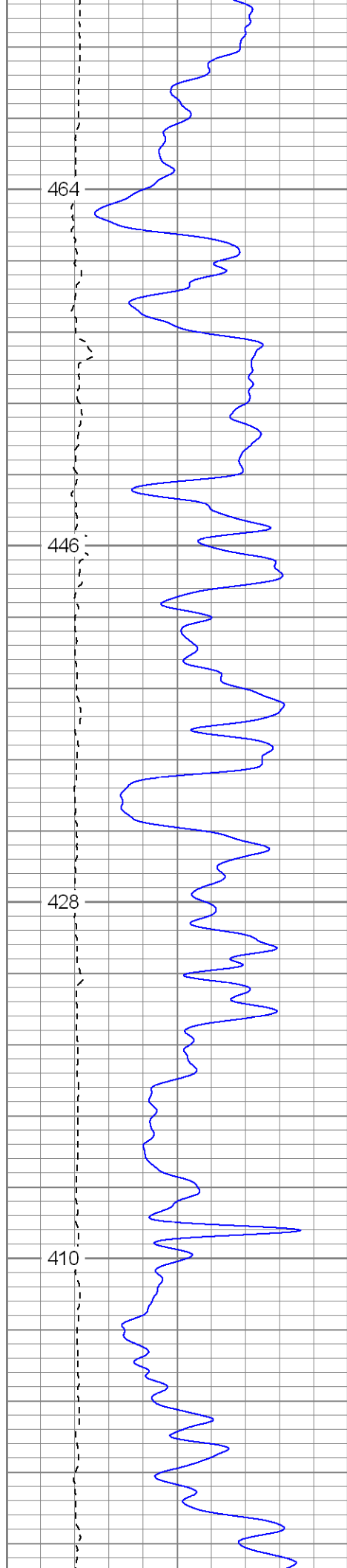
Main Pass

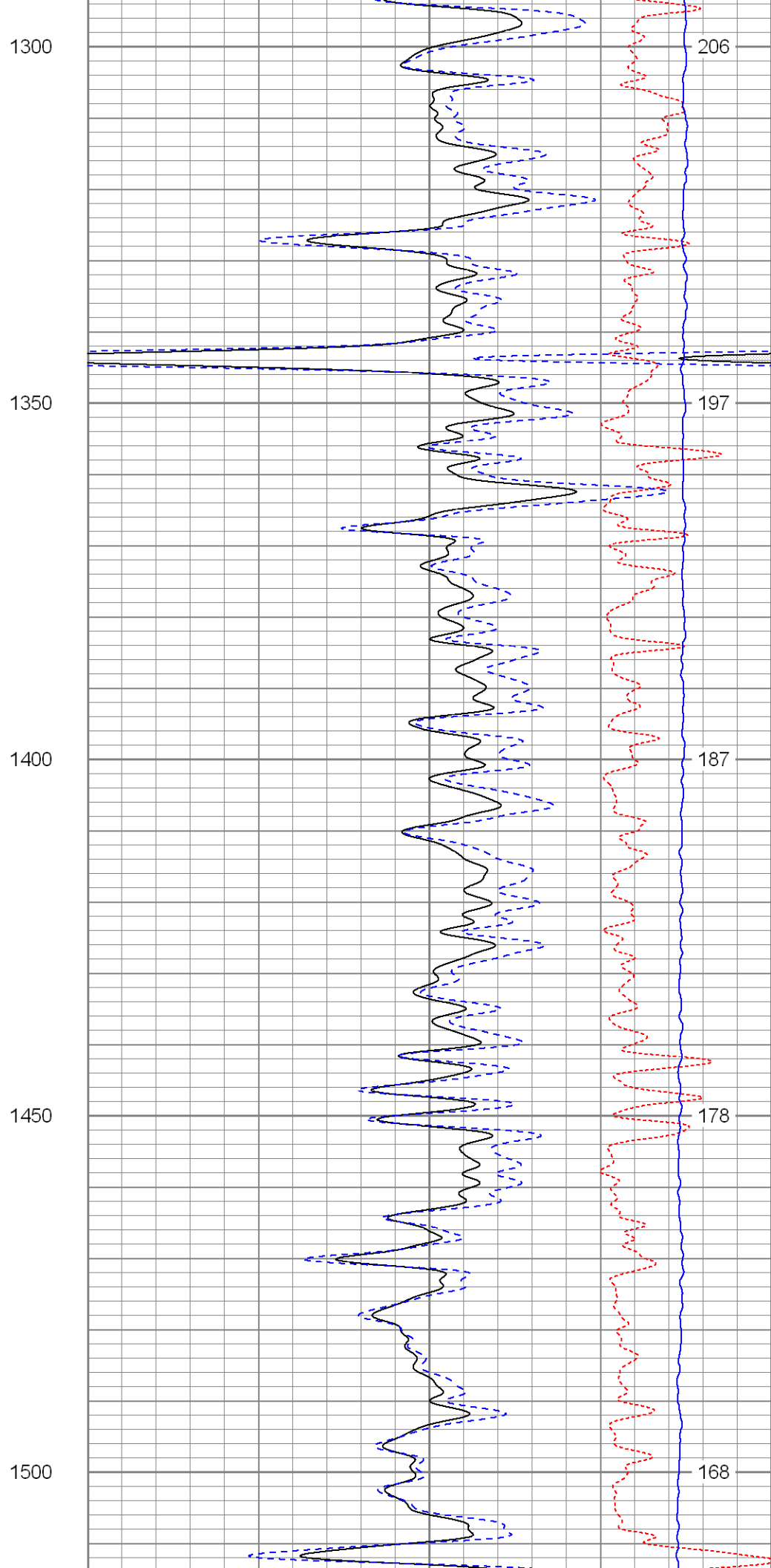
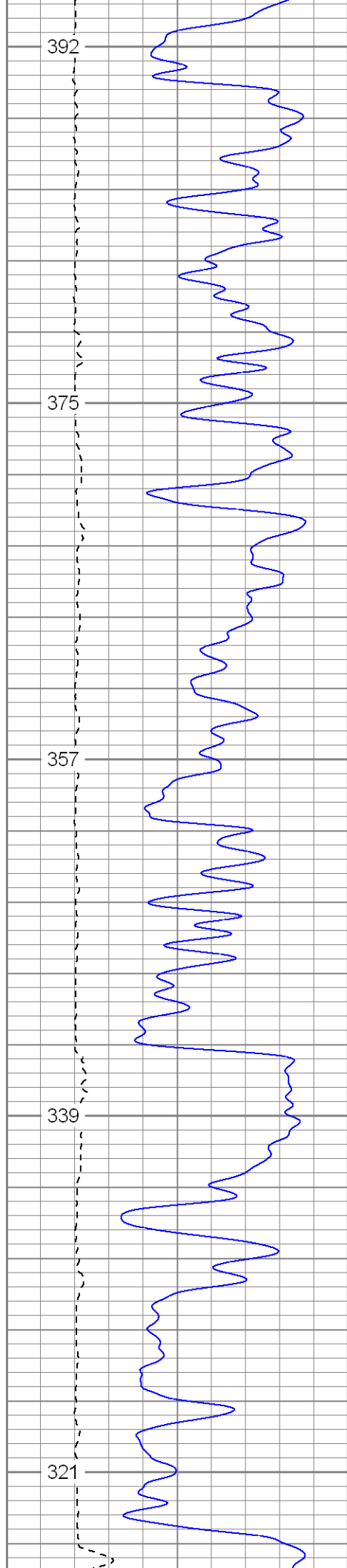
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5 RHOC (g/cc) 0.5		
			4000 LTEN (lb) 0		

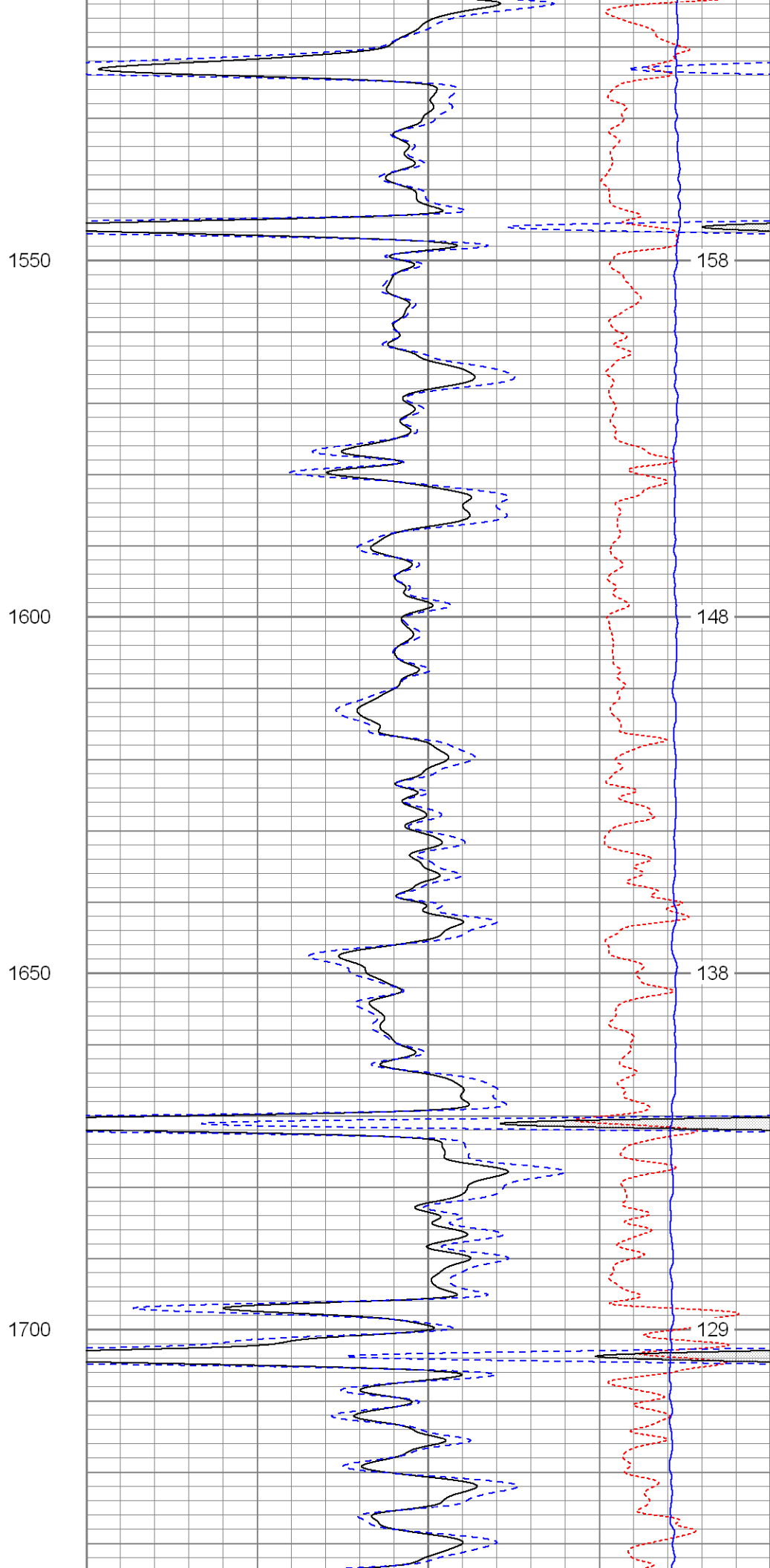
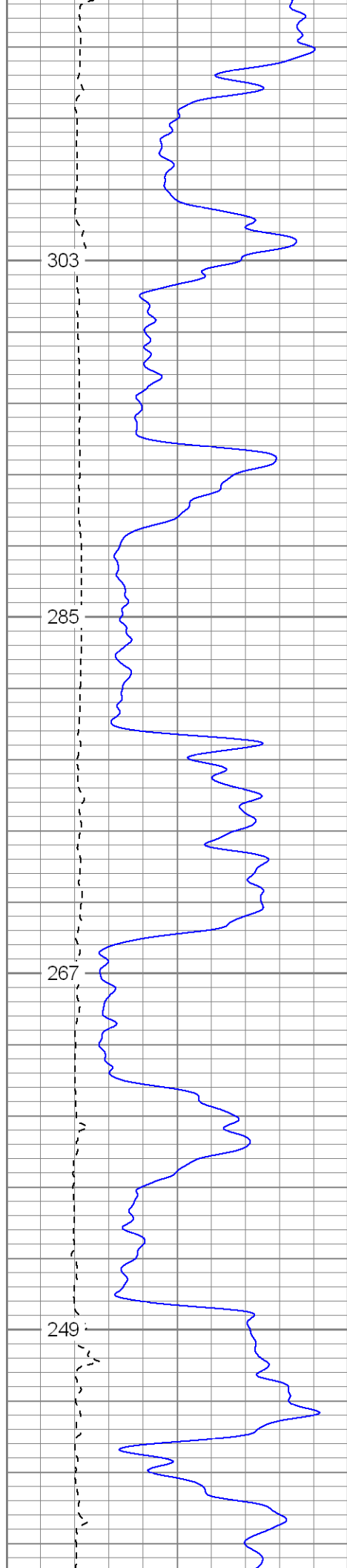


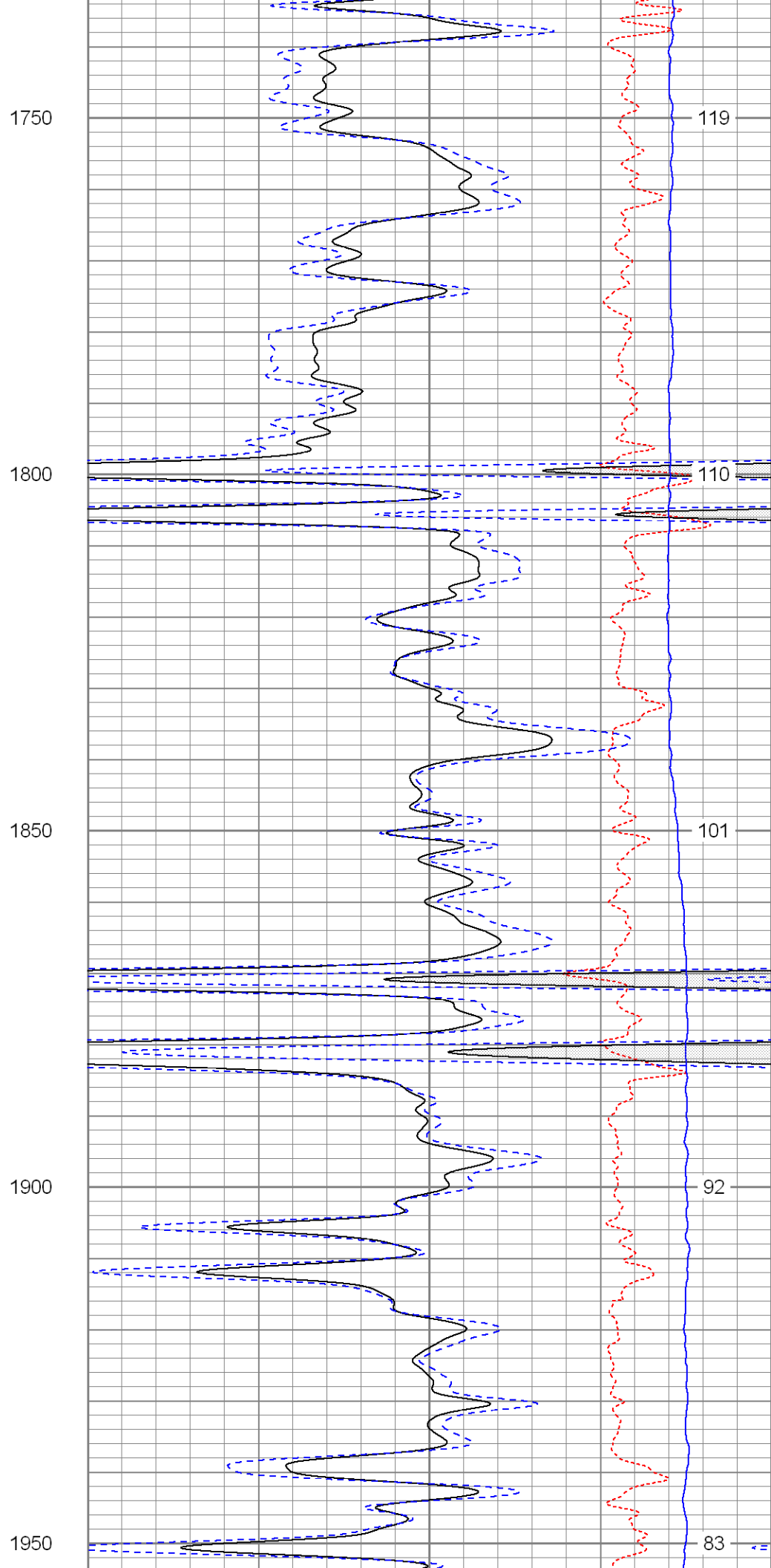
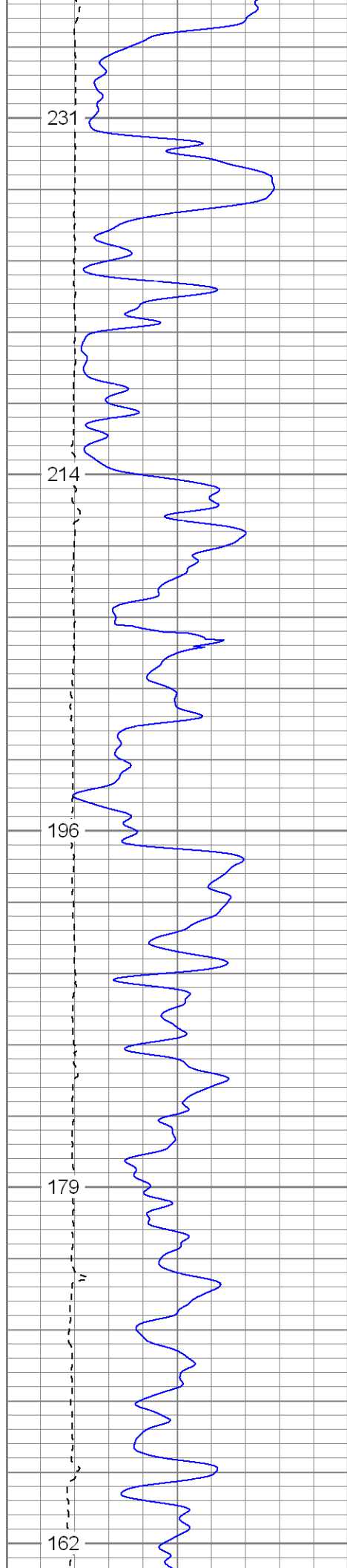


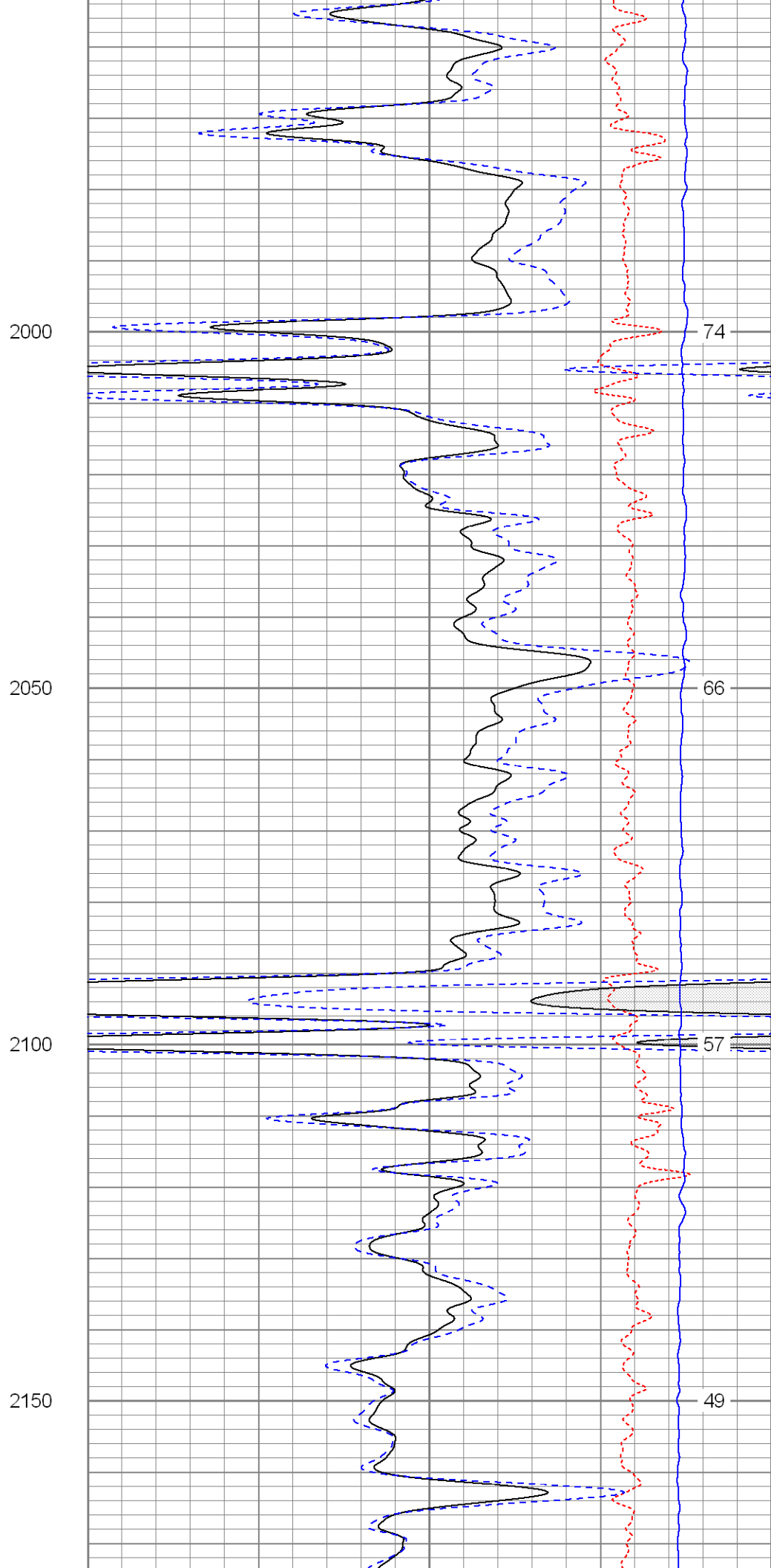
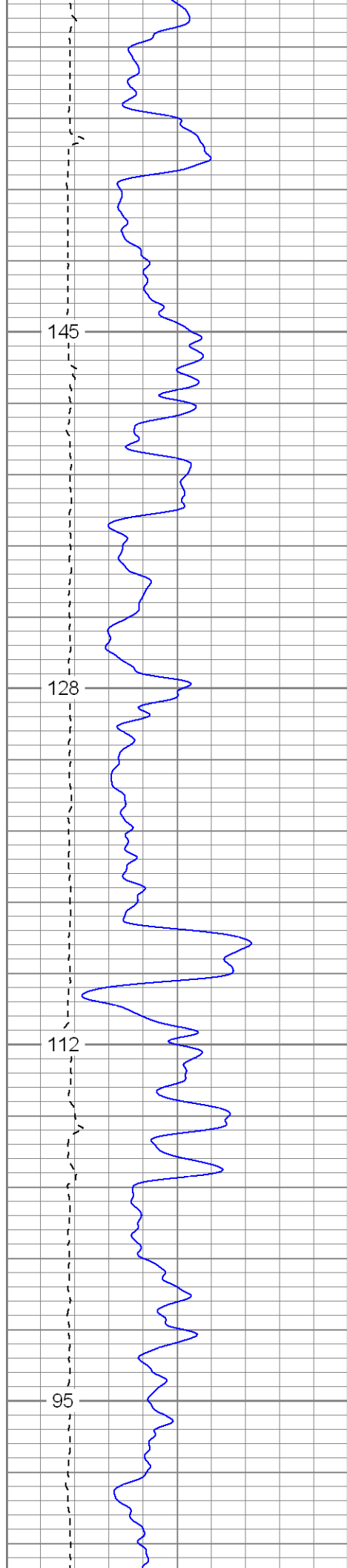


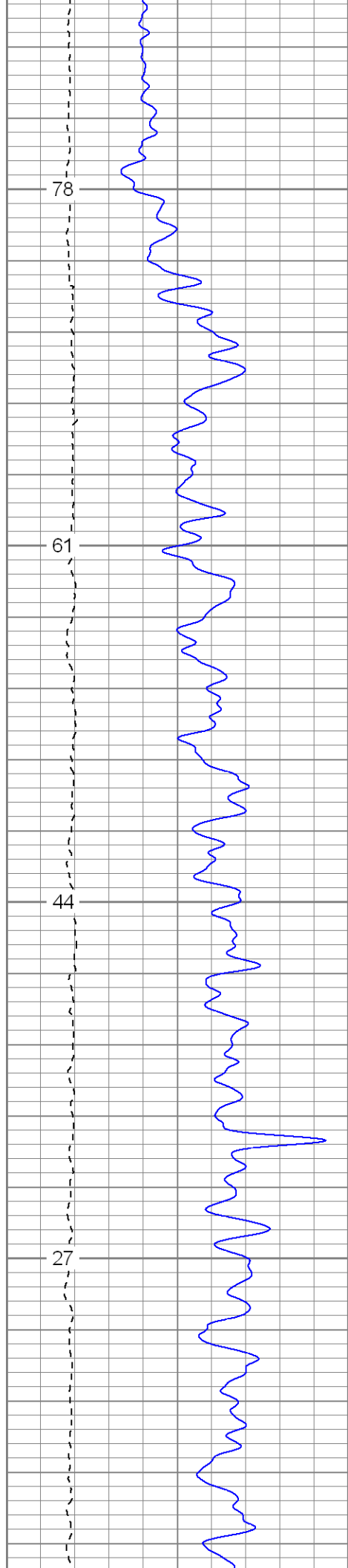










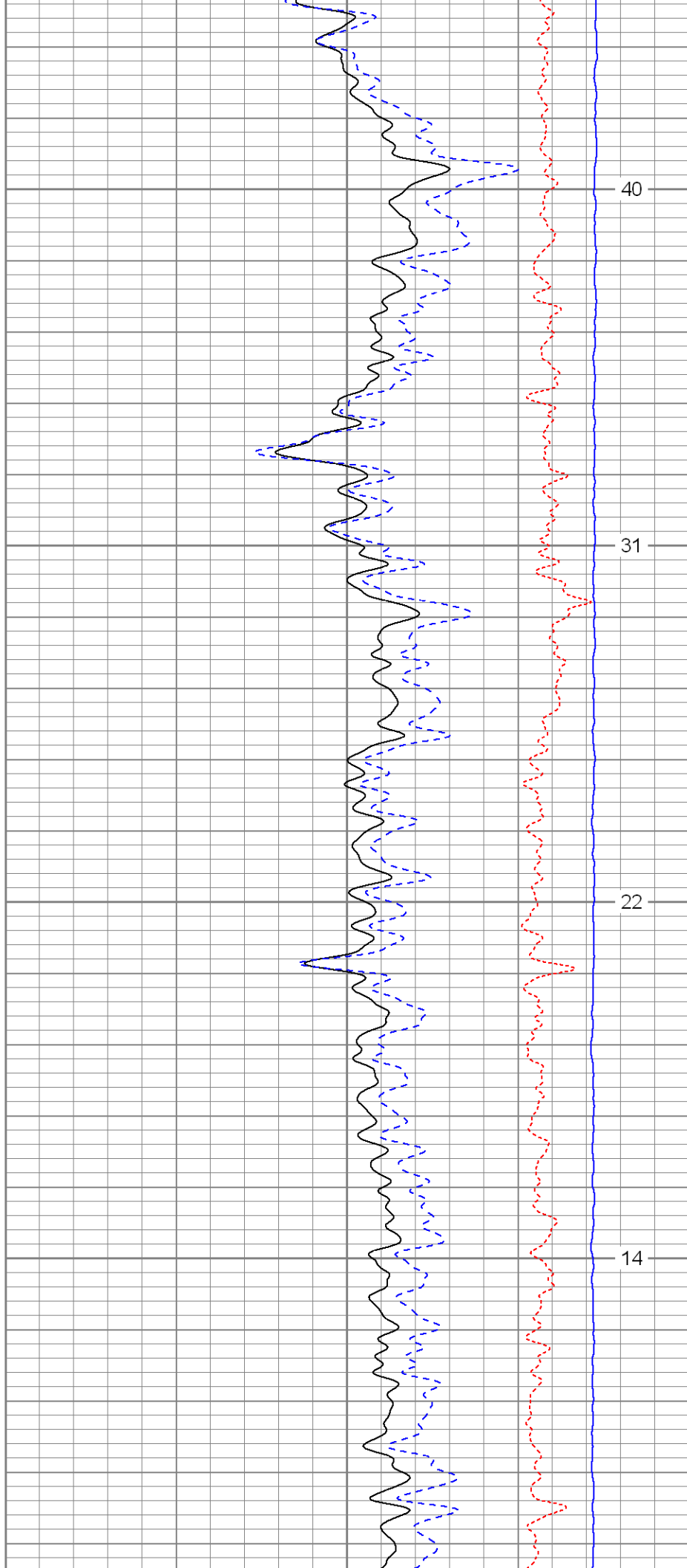


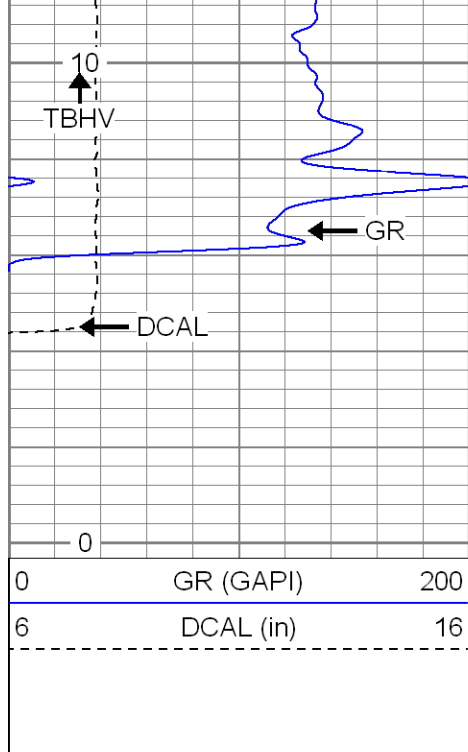
2200

2250

2300

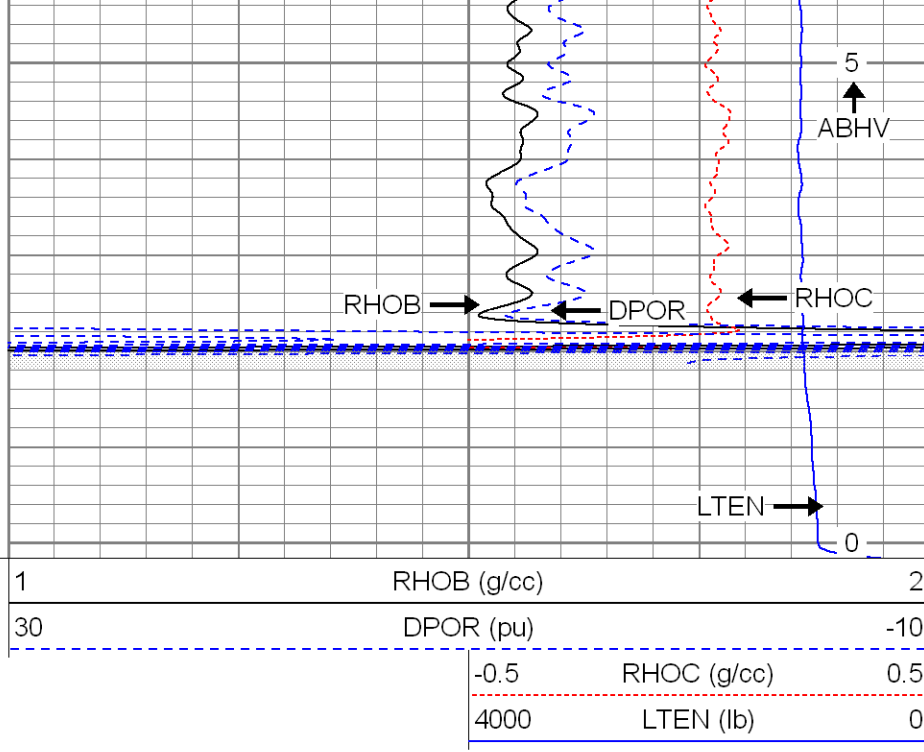
2350





2400

2450



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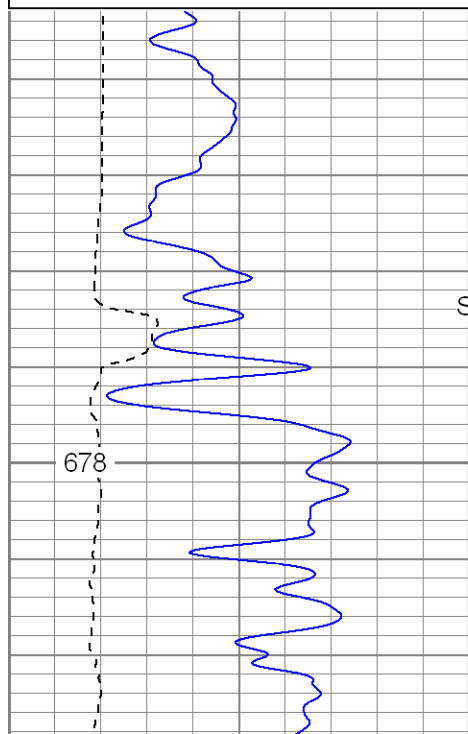
Main Pass

Database File: xtohr2516.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Thu Aug 30 14:12:30 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

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

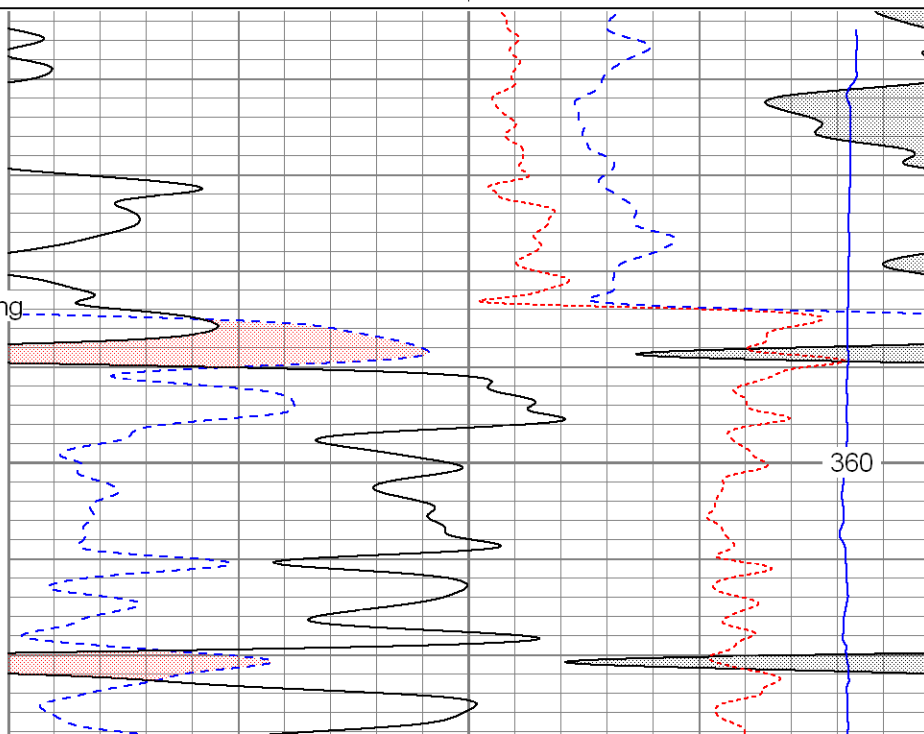
30	NPOR (pu)	-10
30	DPOR (pu)	-10

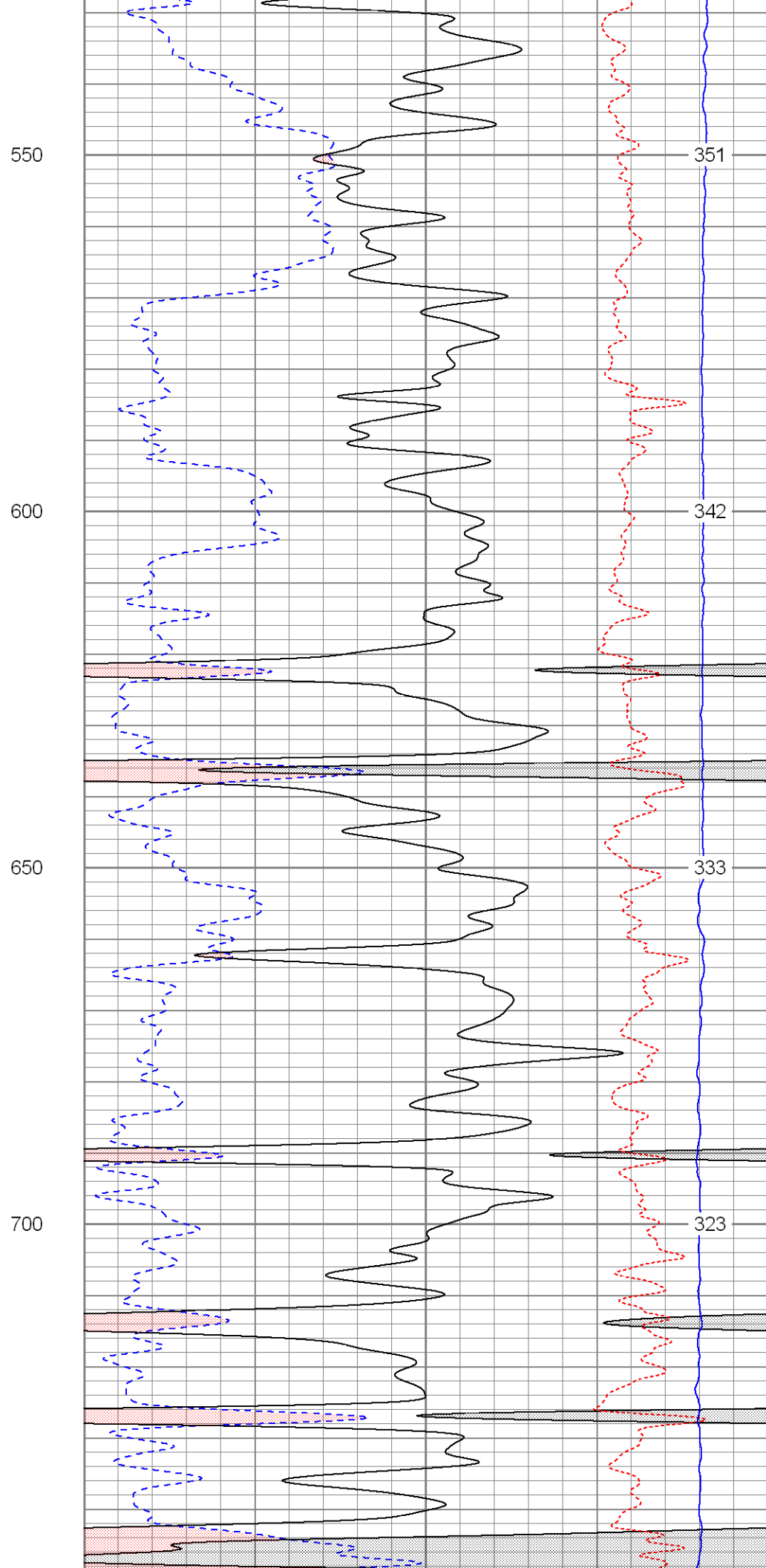
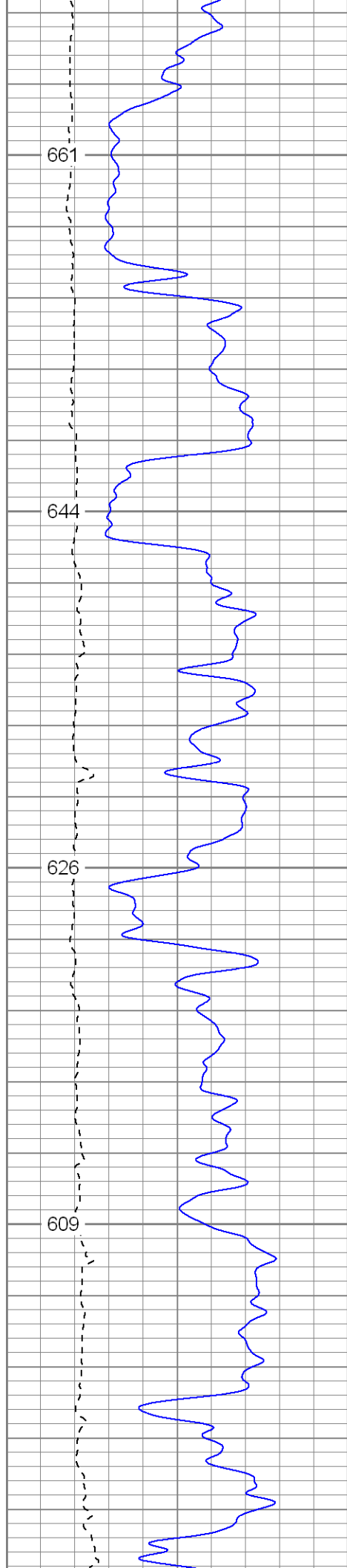
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

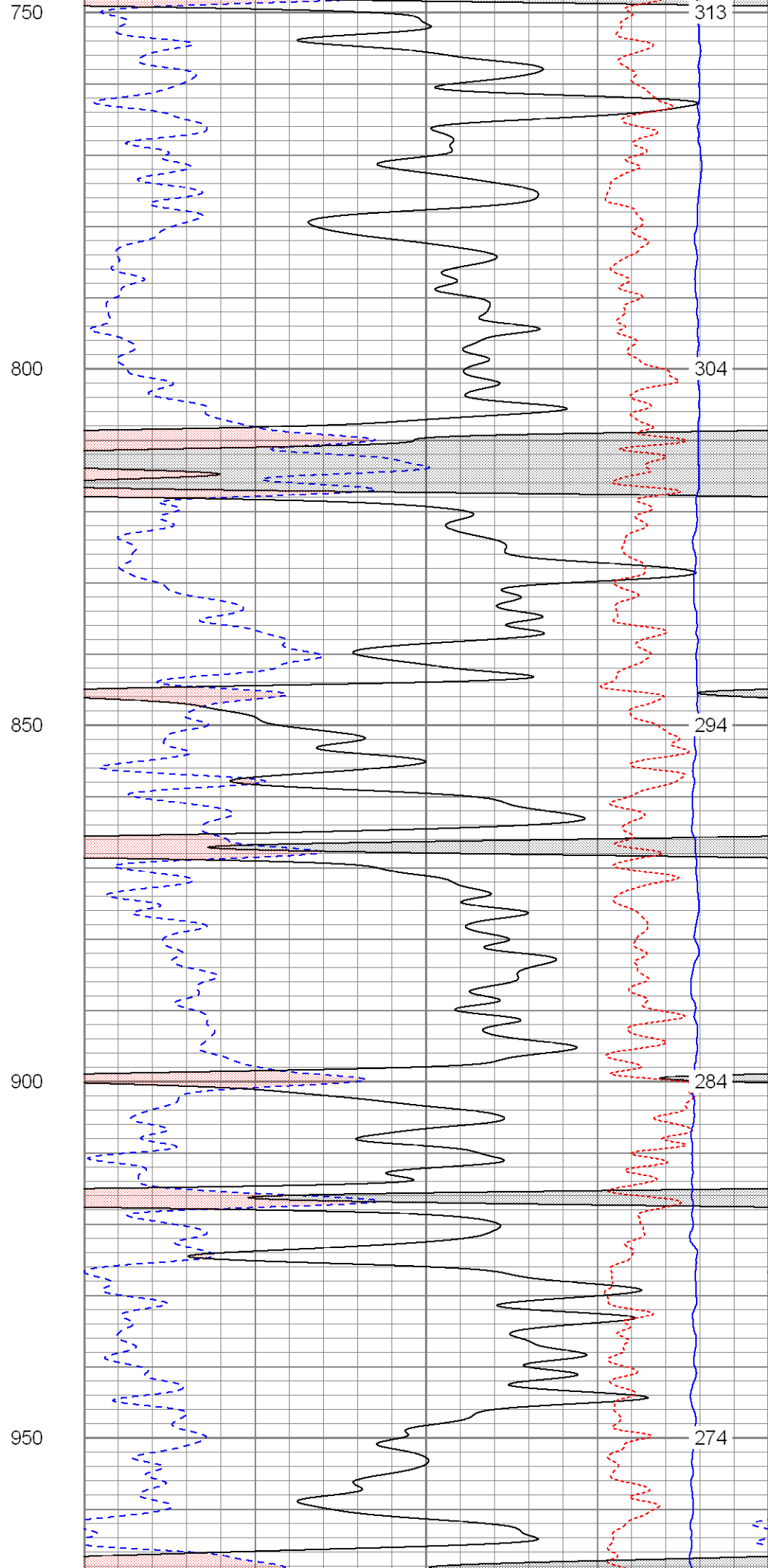
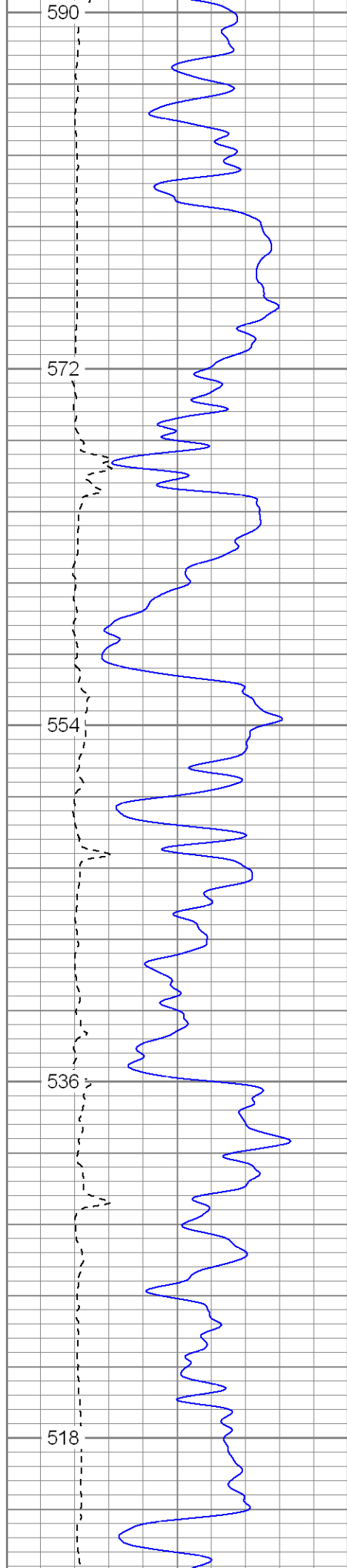


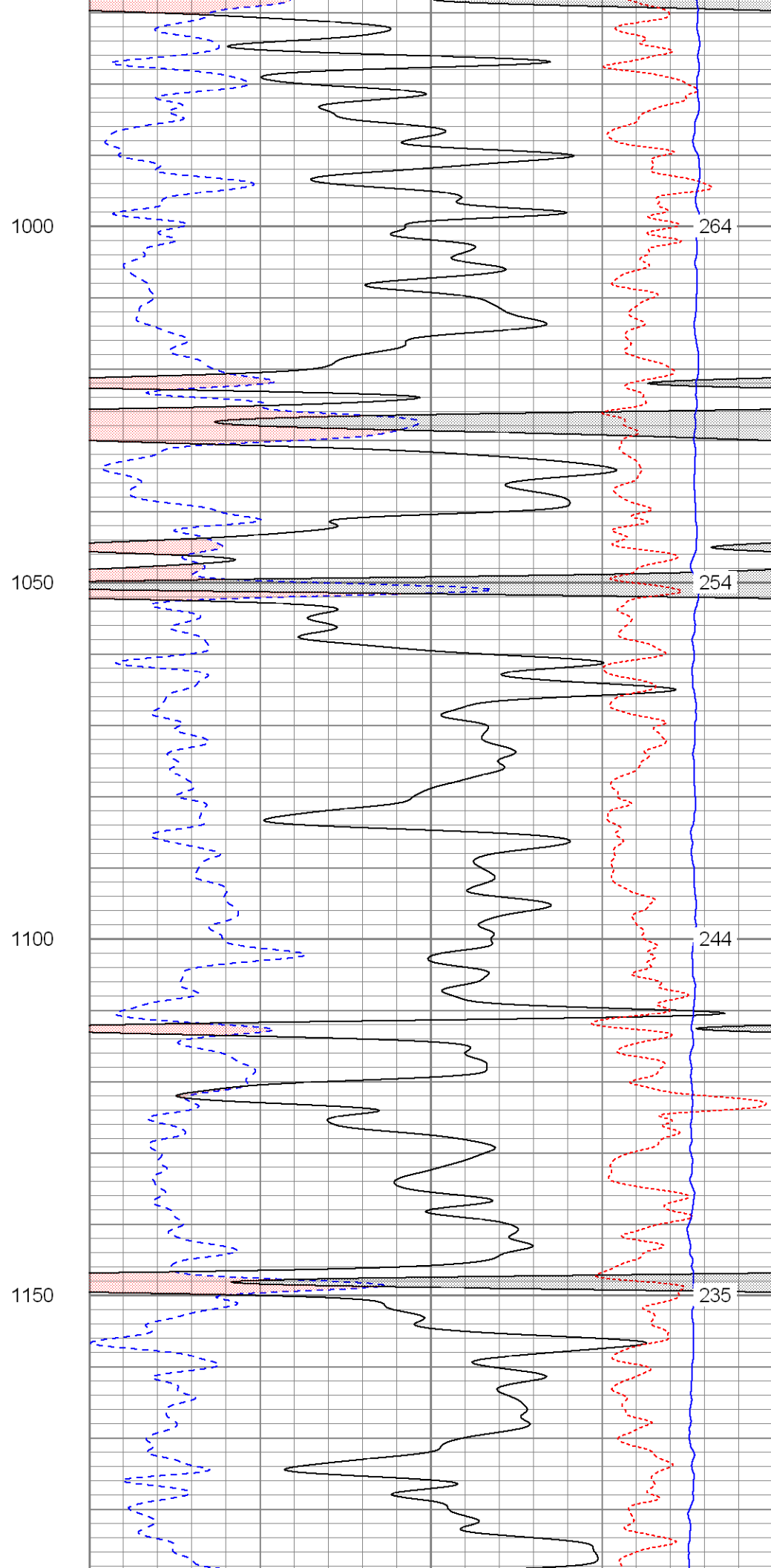
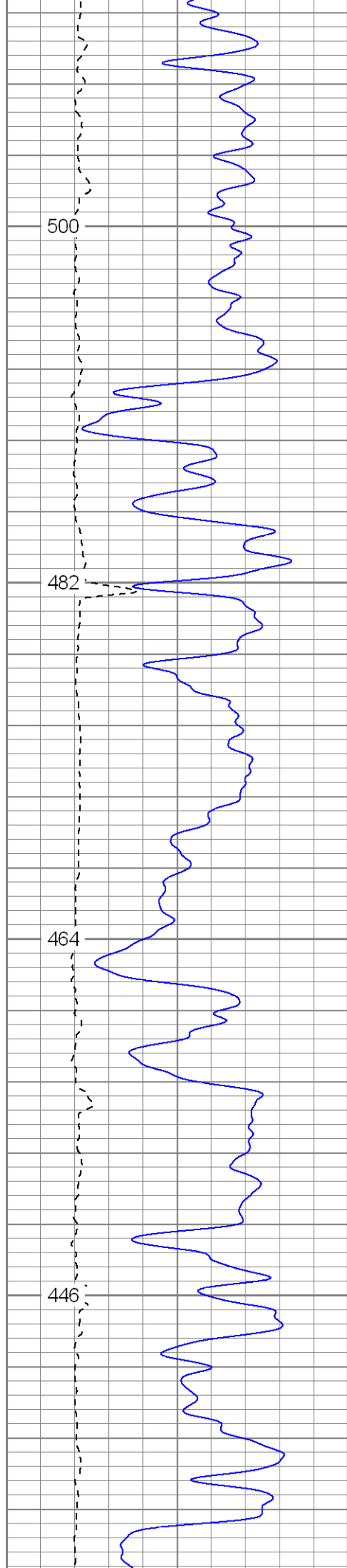
Surface Casing

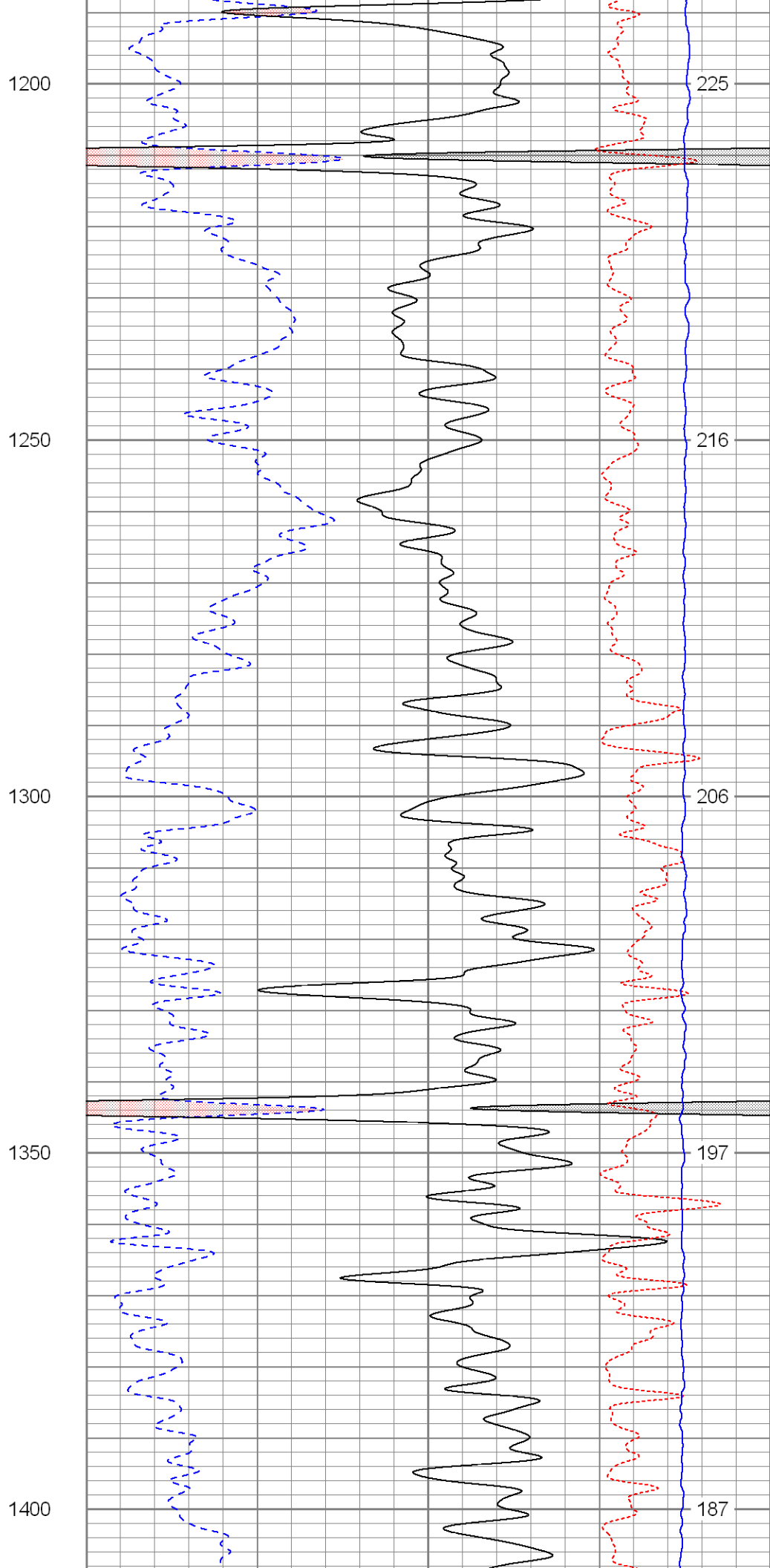
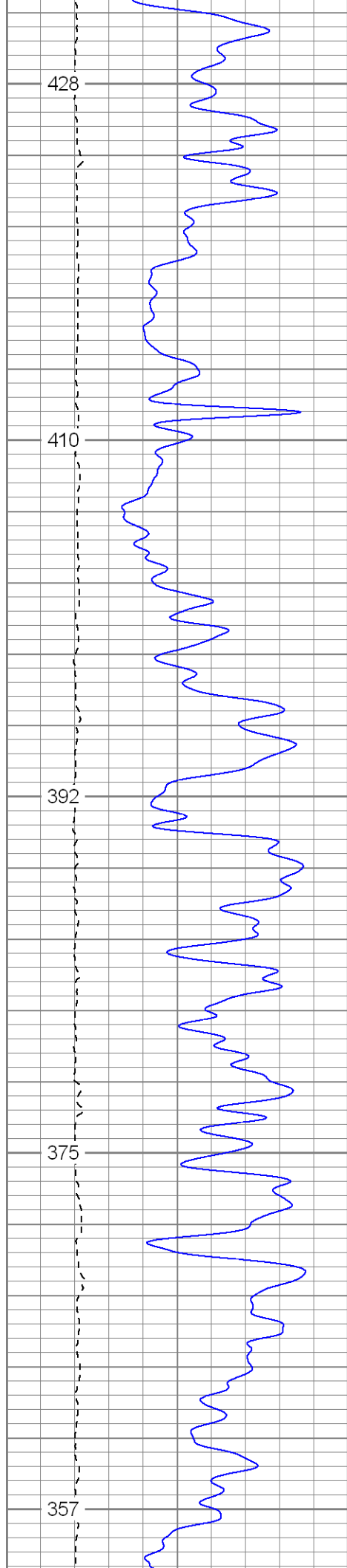
500

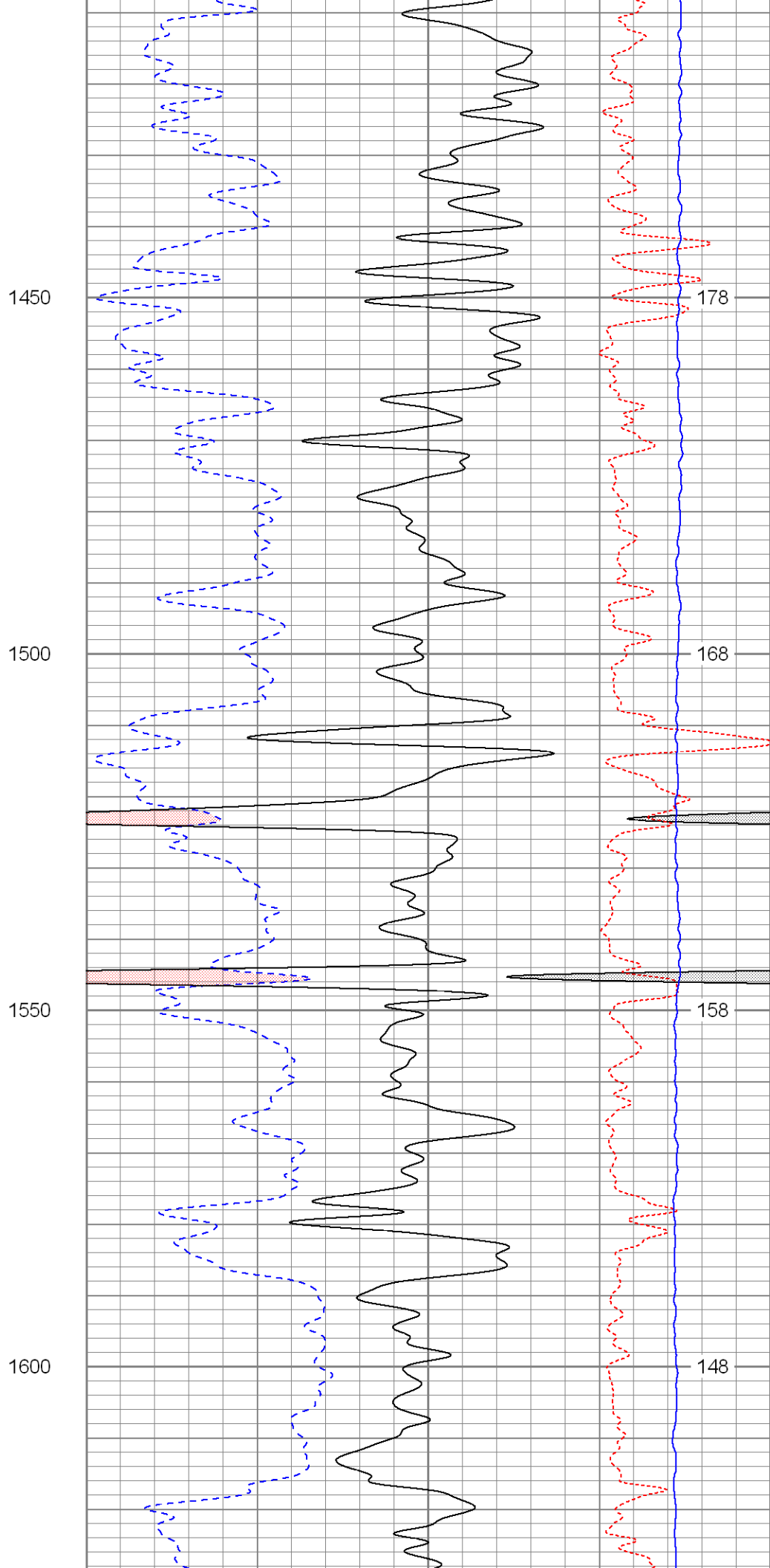
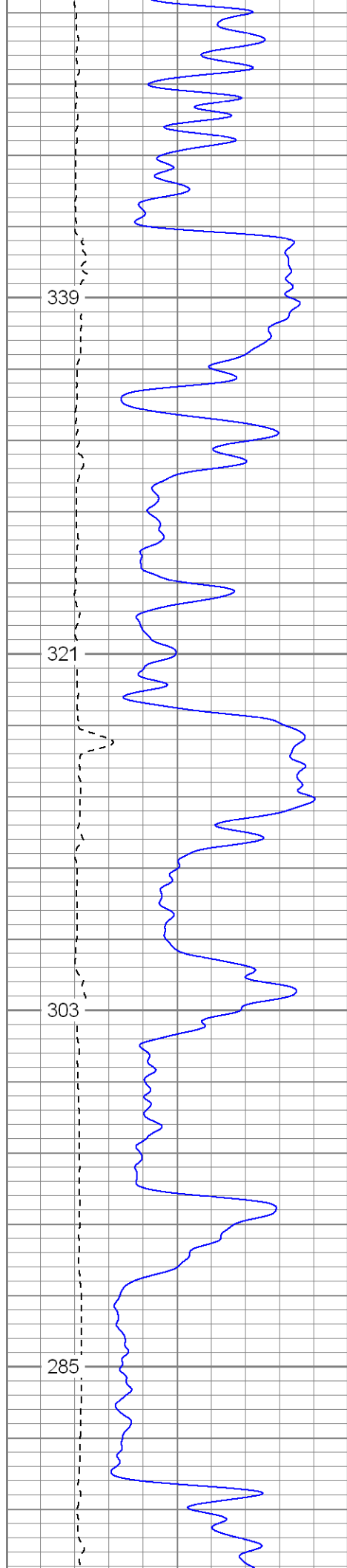


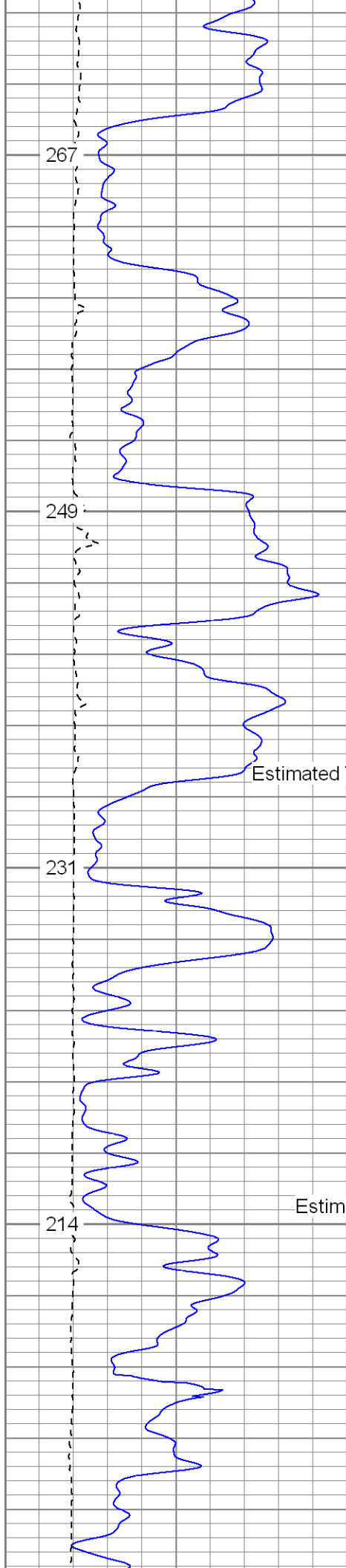












Estimated Top of Conglomerate

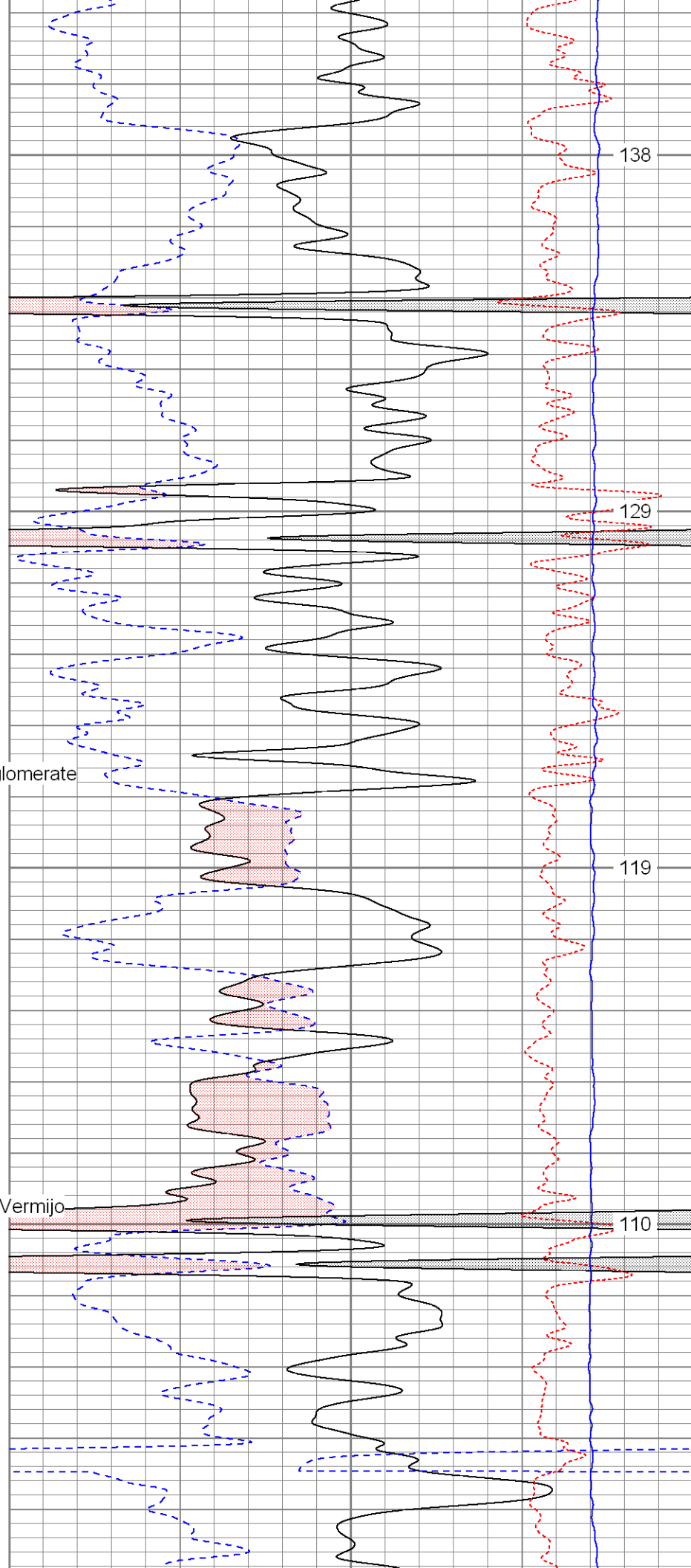
Estimated Top of Vermijo
1800

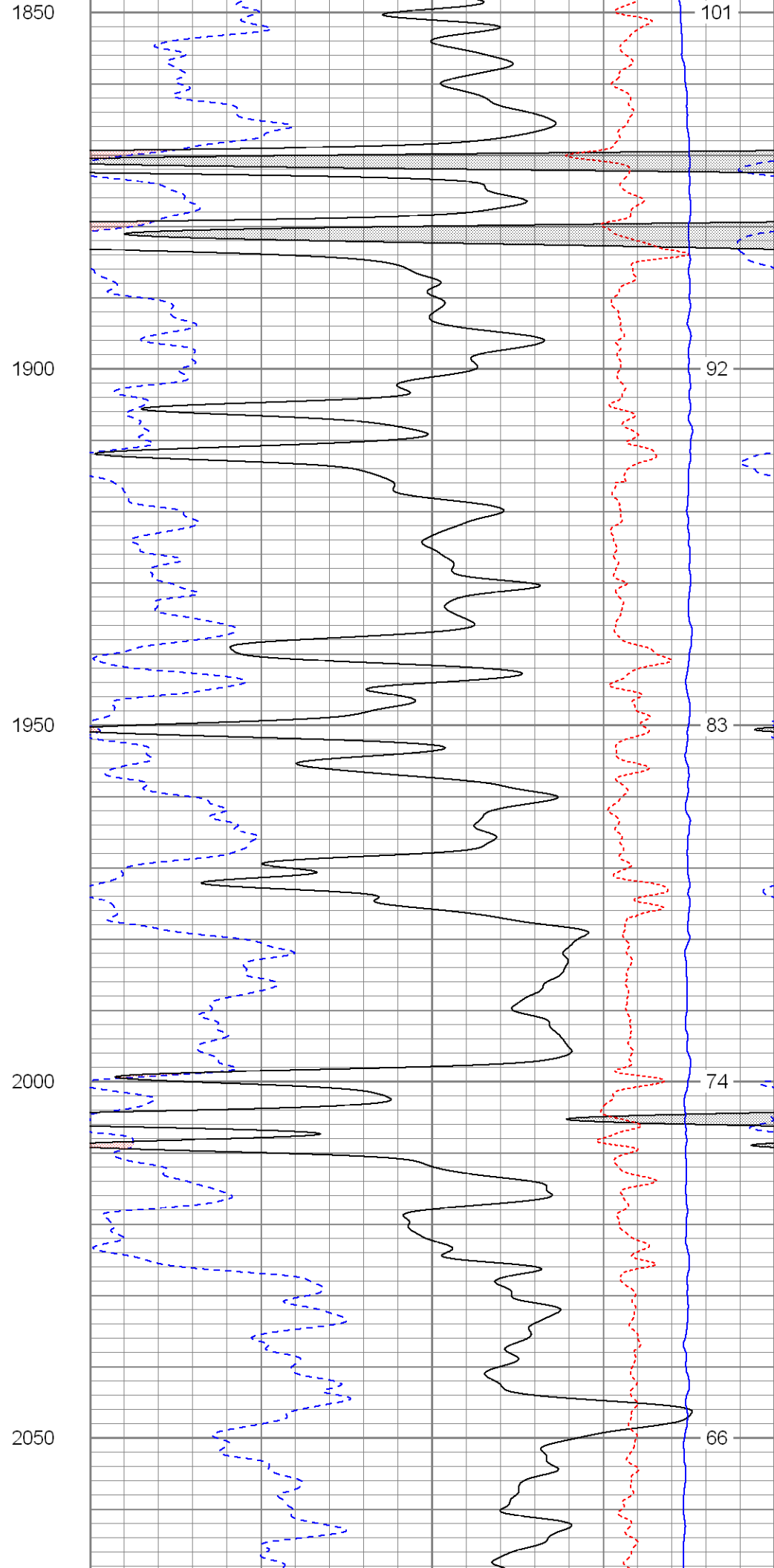
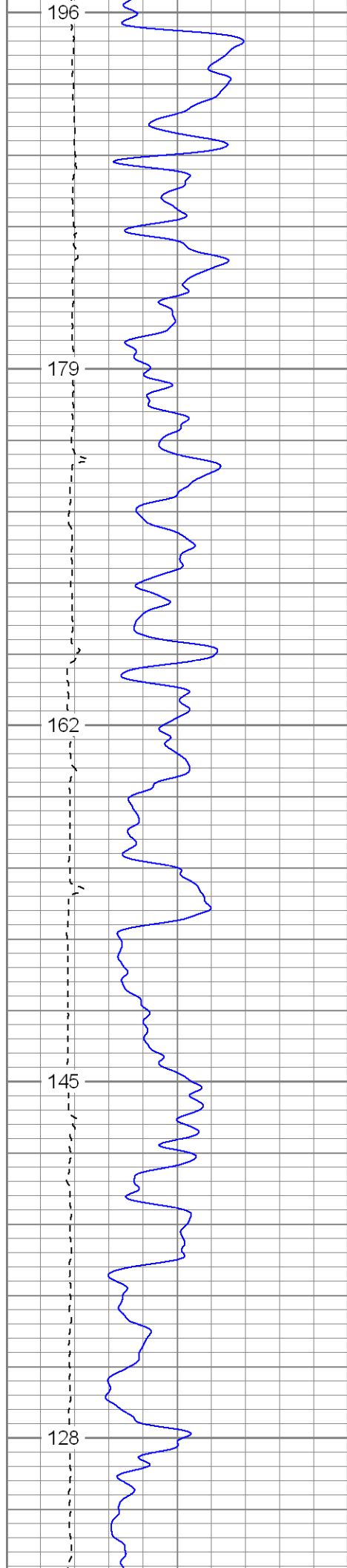
Fluid Level

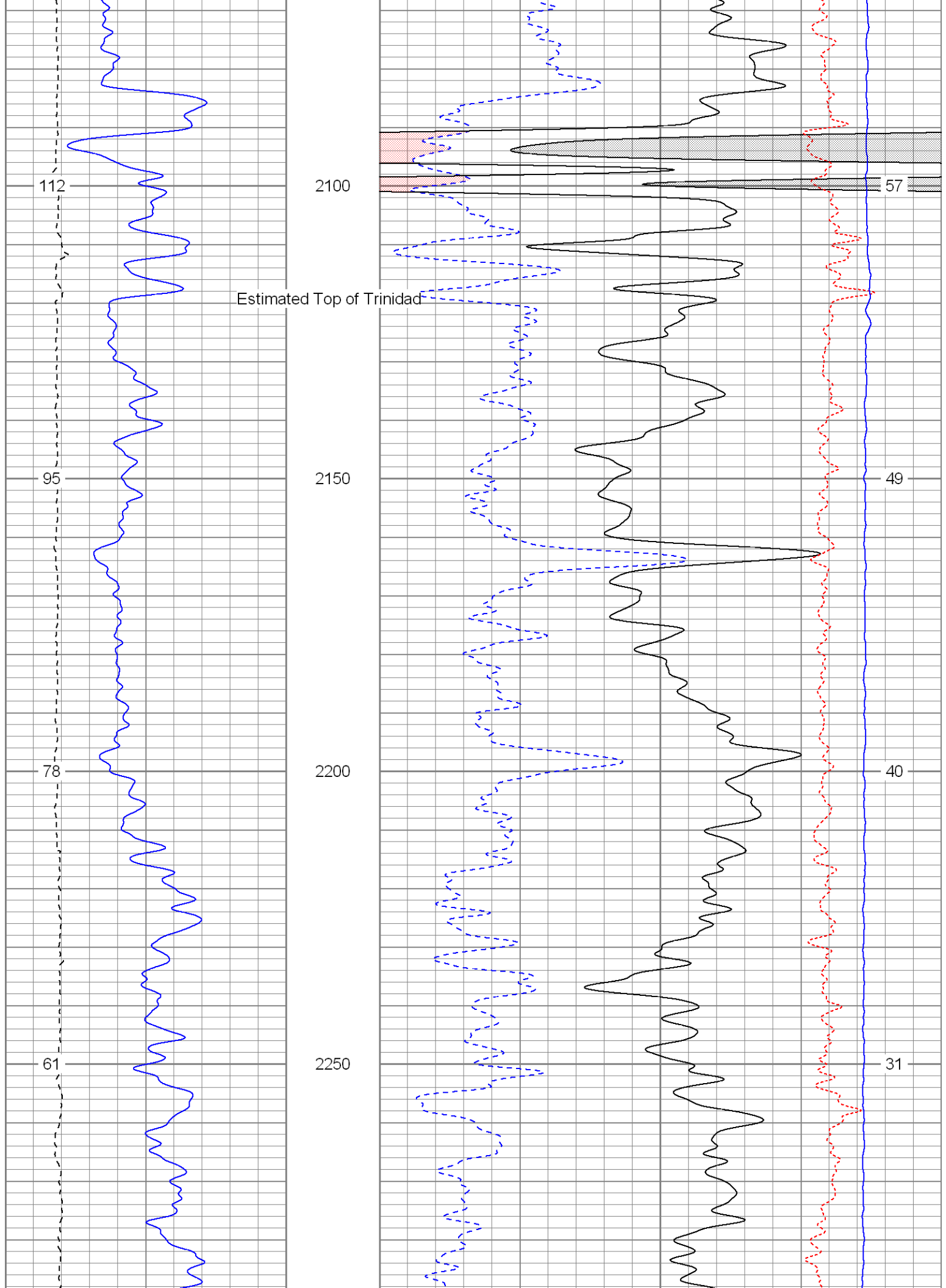
1650

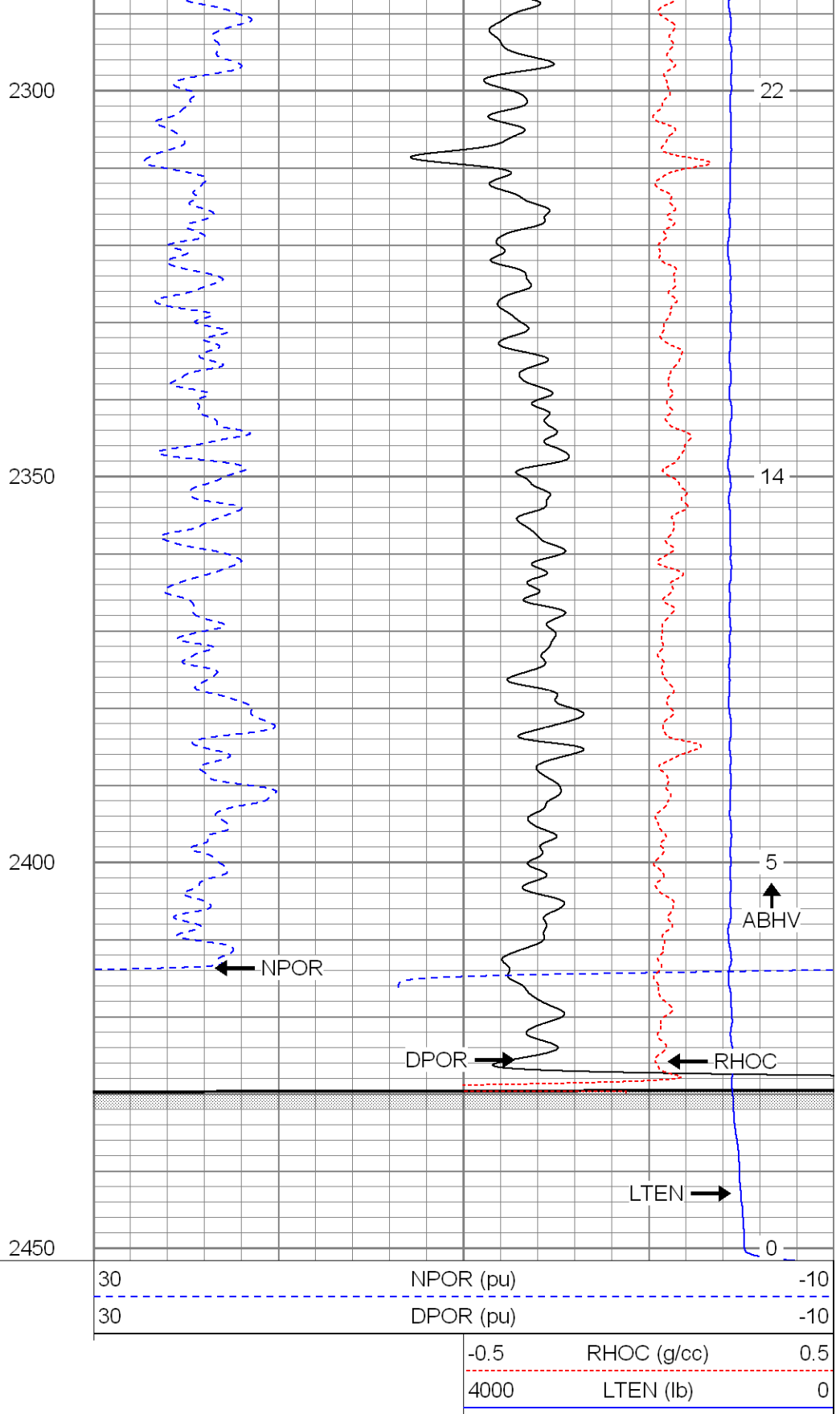
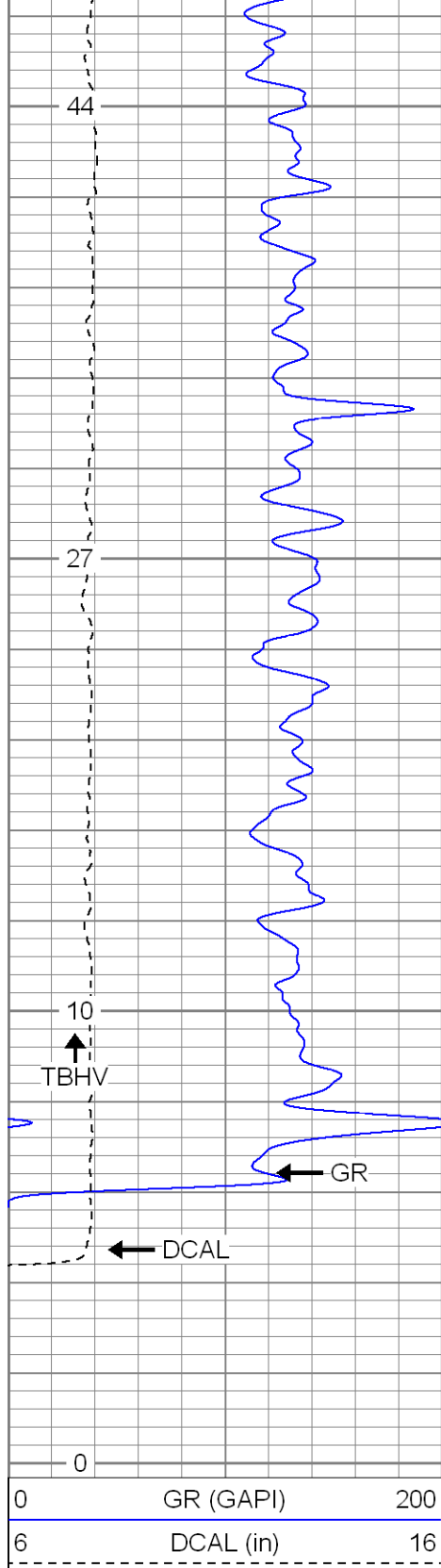
1700

1750









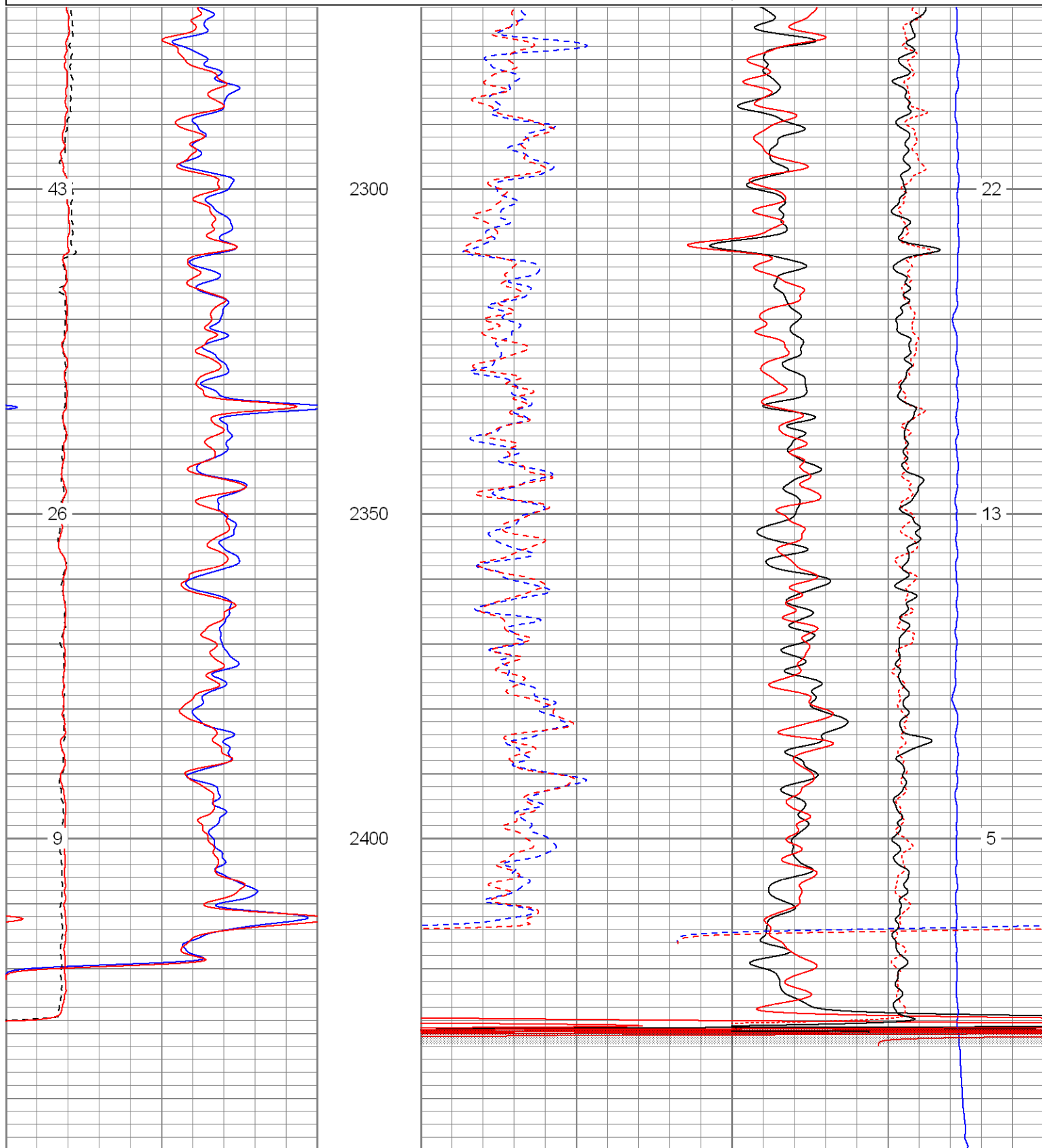
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Repeat Section

Database File: xtchr2516.db
Dataset Pathname: pass1.1
Presentation Format: cdnl

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



0	GR (GAPI)	200	2450	30	NPOR (pu)	-10
6	DCAL (in)	16		30	DPOR (pu)	-10
0	GR-repeat (GAPI)	200		30	NPOR-repeat (pu)	-10
6	DCAL-repeat (in)	16		30	DPOR-repeat (pu)	-10
				-0.5	RHOC (g/cc)	0.5
				4000	LTEN (lb)	0
				-0.5	RHOC-repeat (g/cc)	0.5



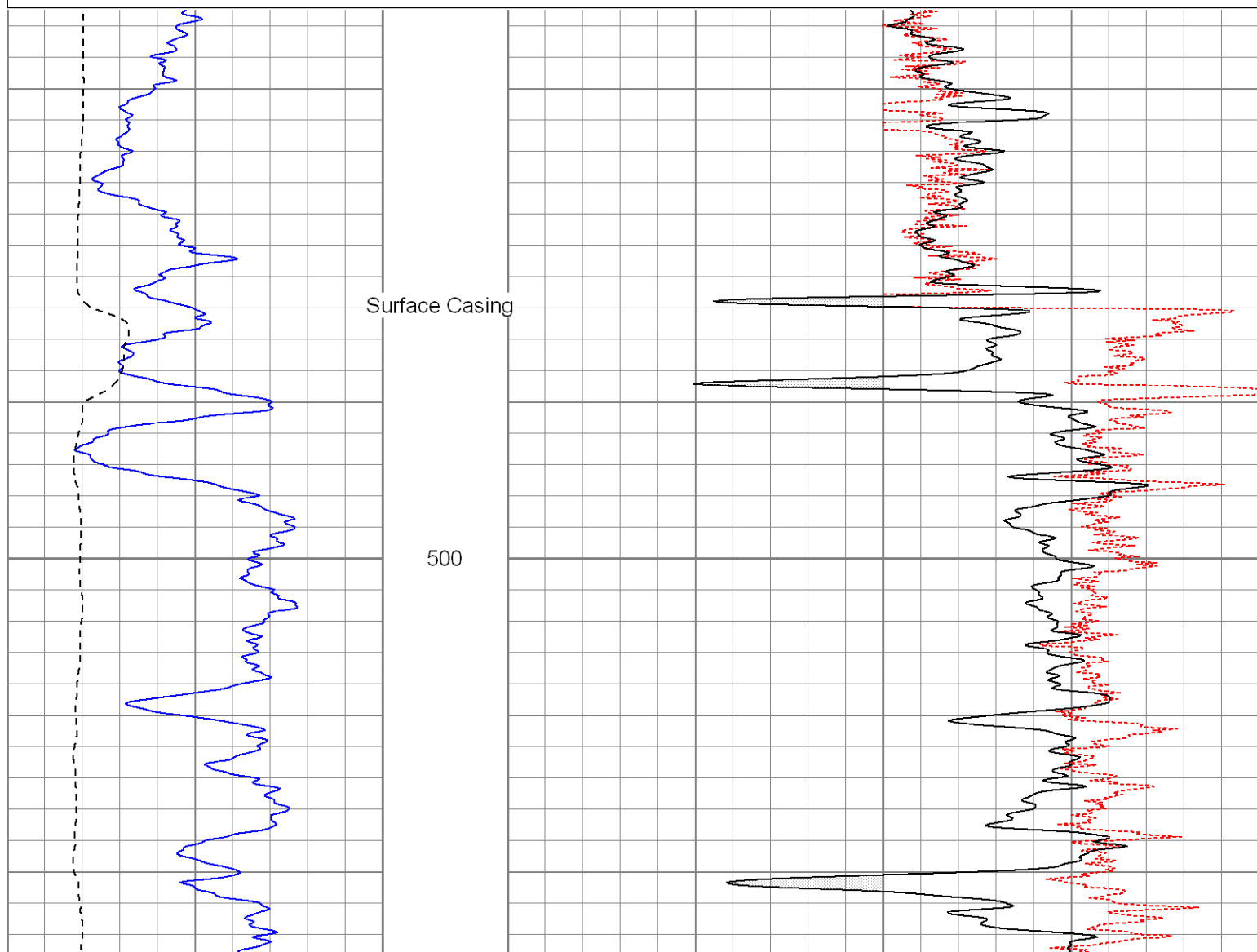
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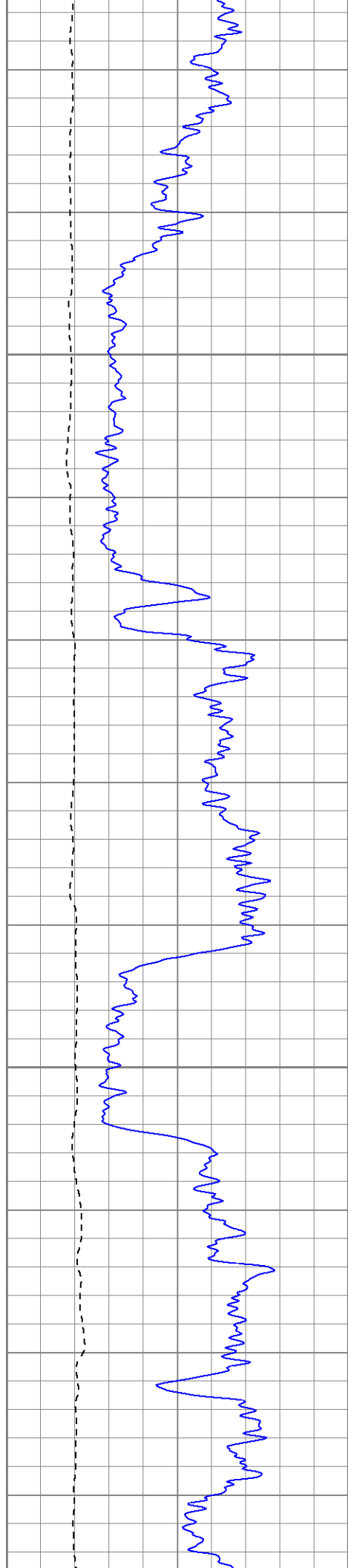
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High Resolution Pass

Database File: xtohr2516.db
Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Fri Aug 31 07:11:20 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:120

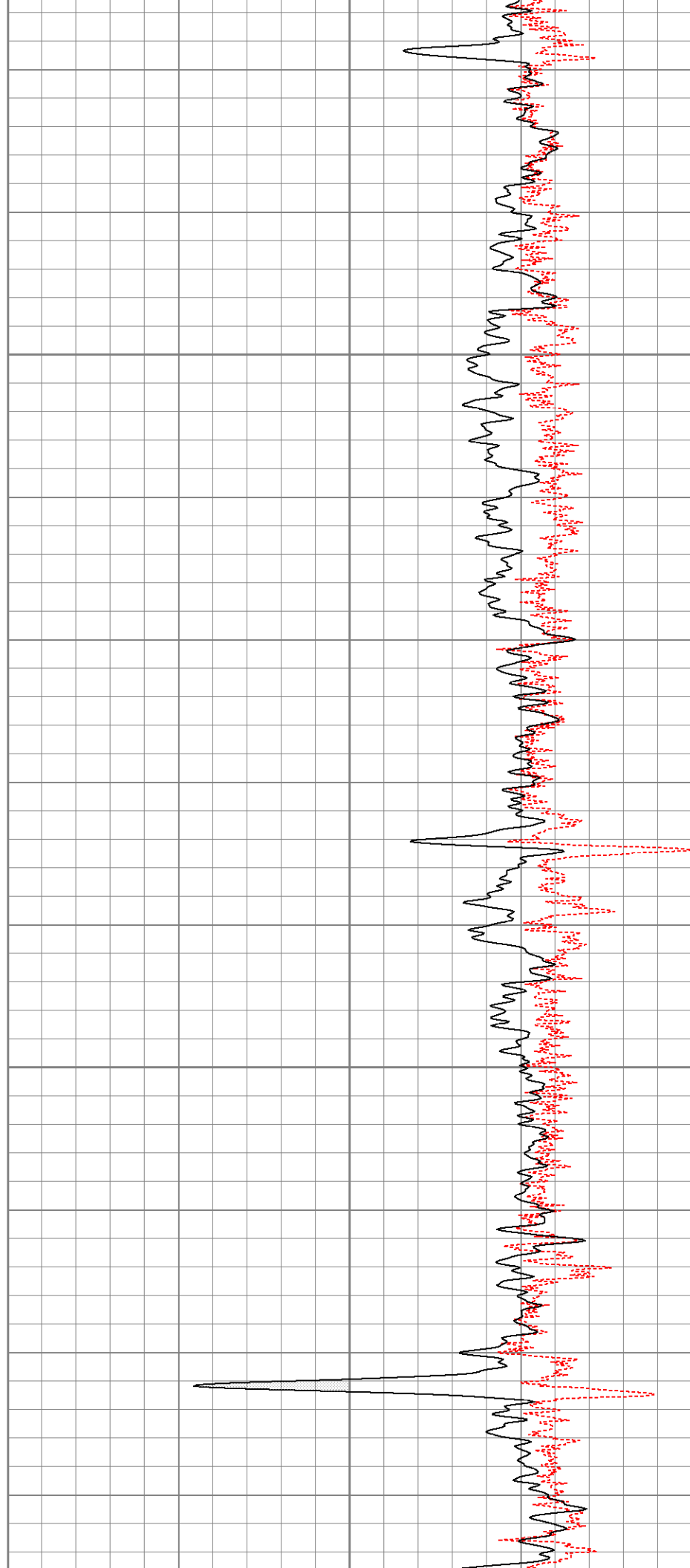
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6	DCAL (in)	16		-0.5			RHOC (g/cc)	0.5

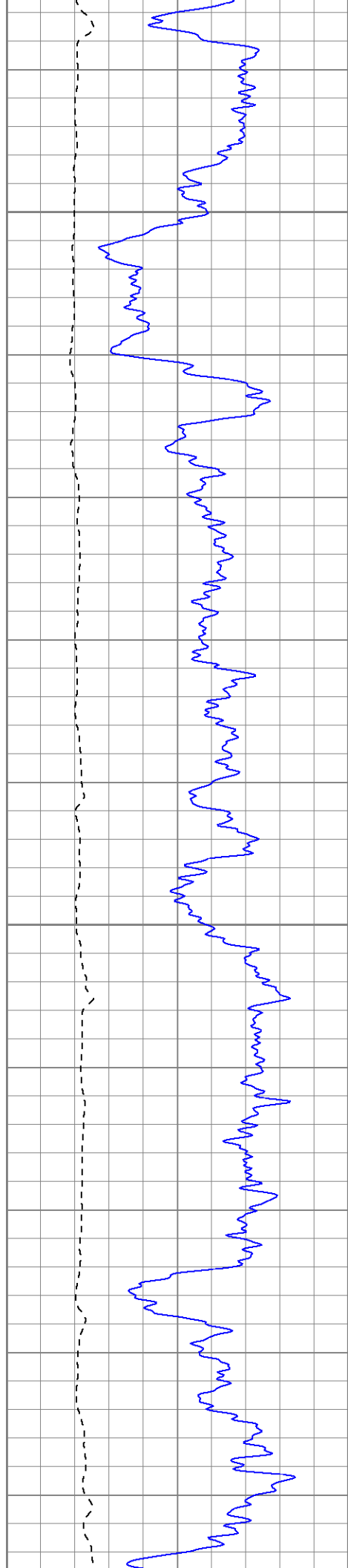




550

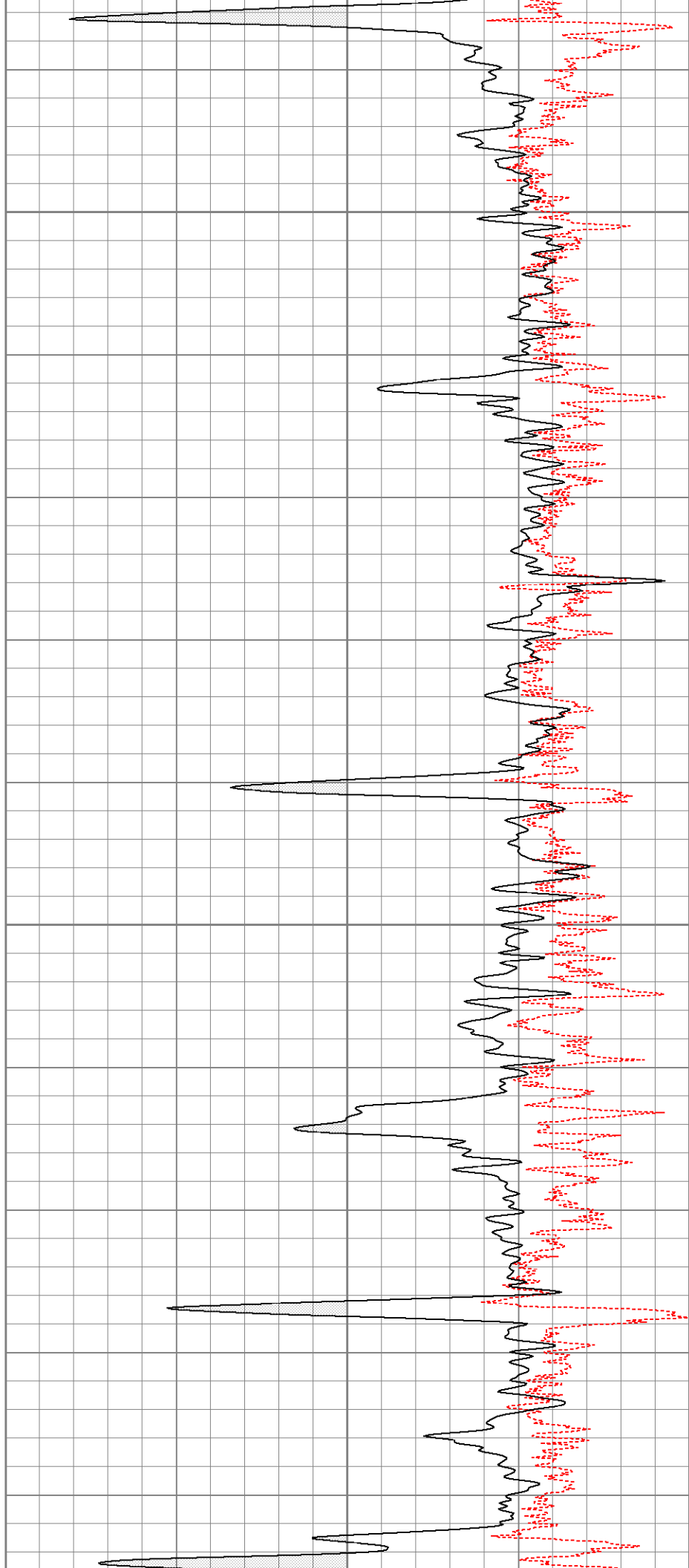
600

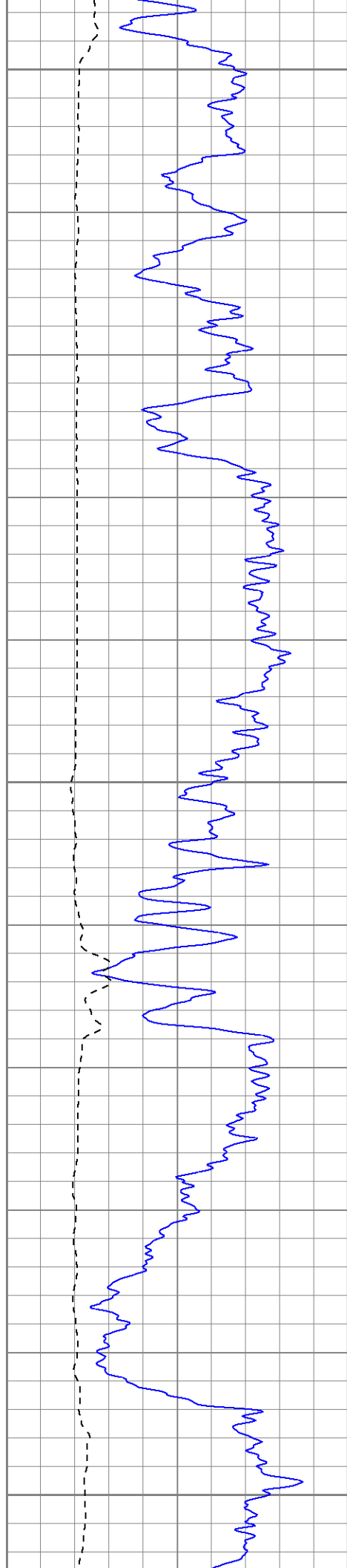




650

700

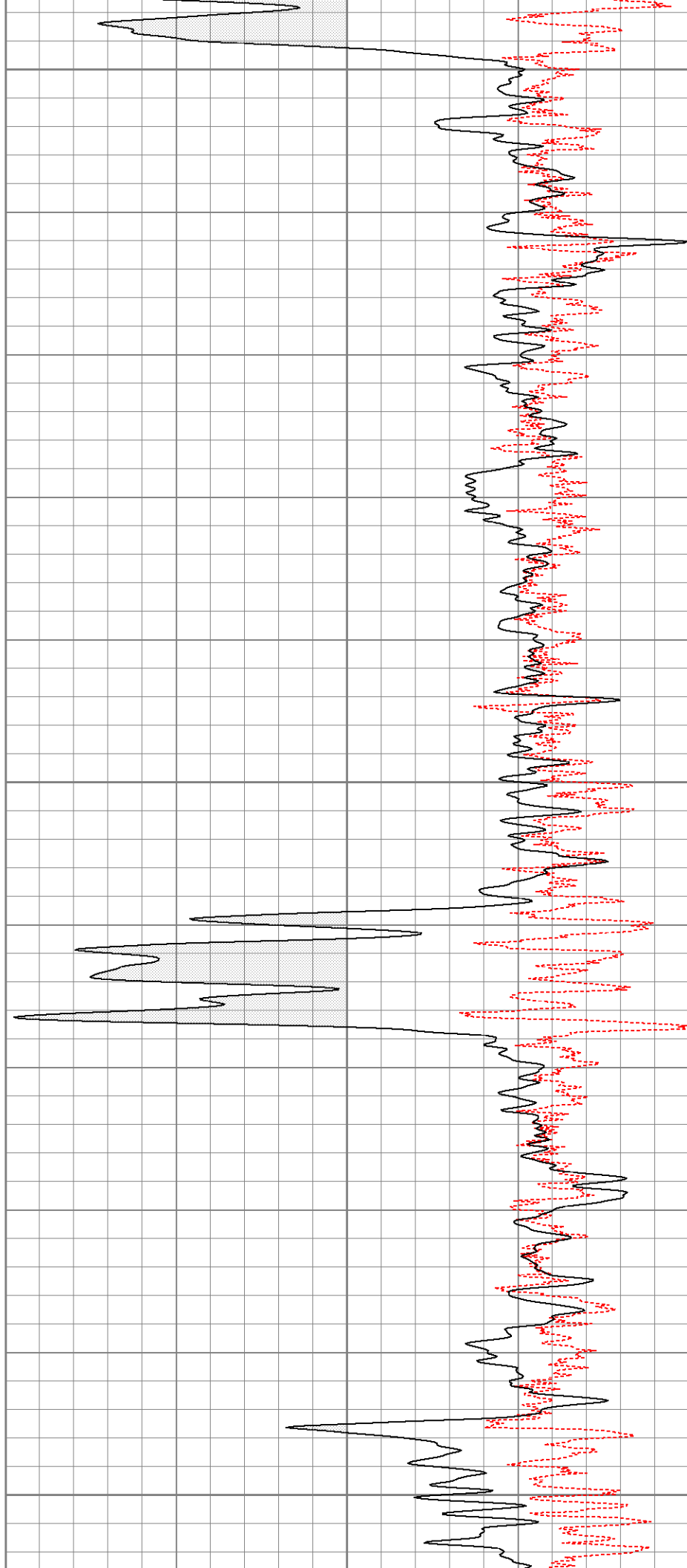


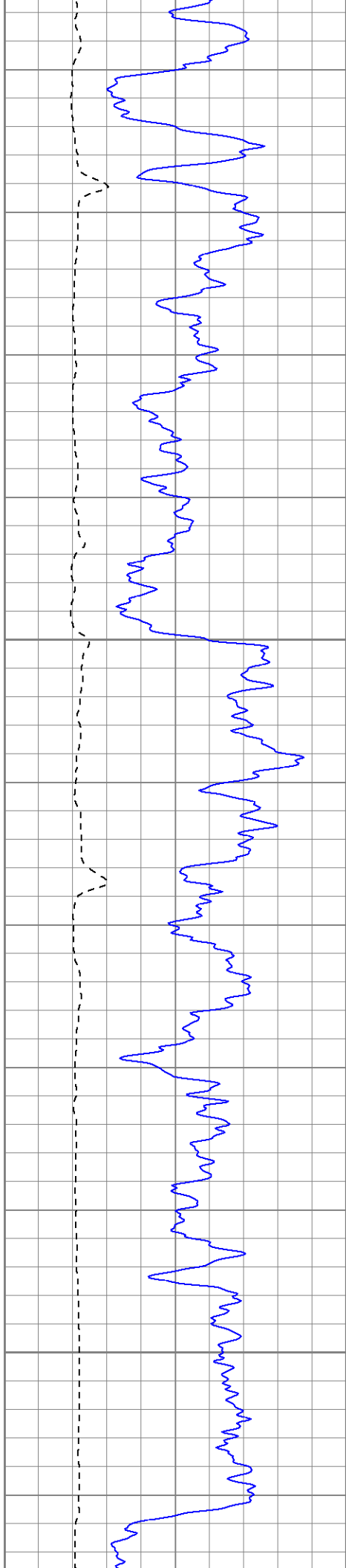


750

800

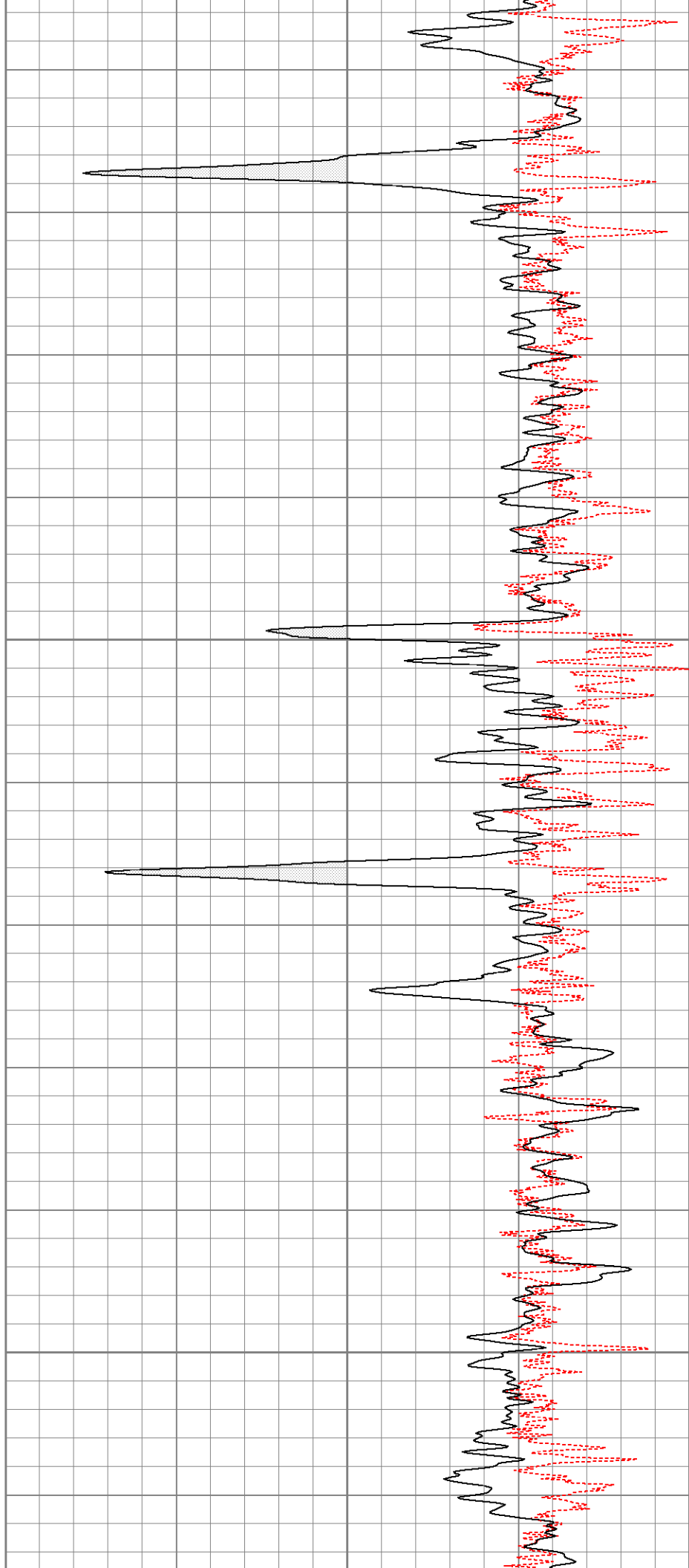
850

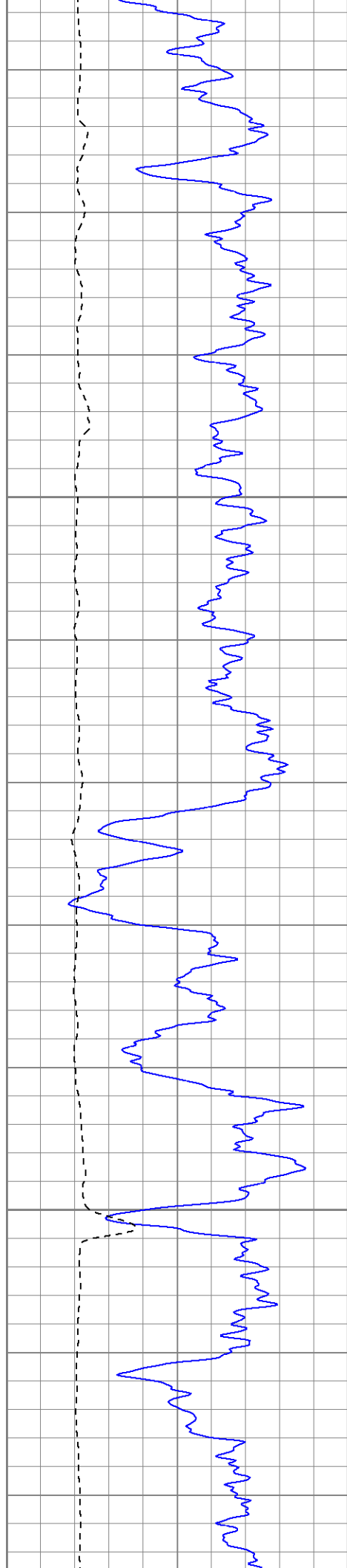




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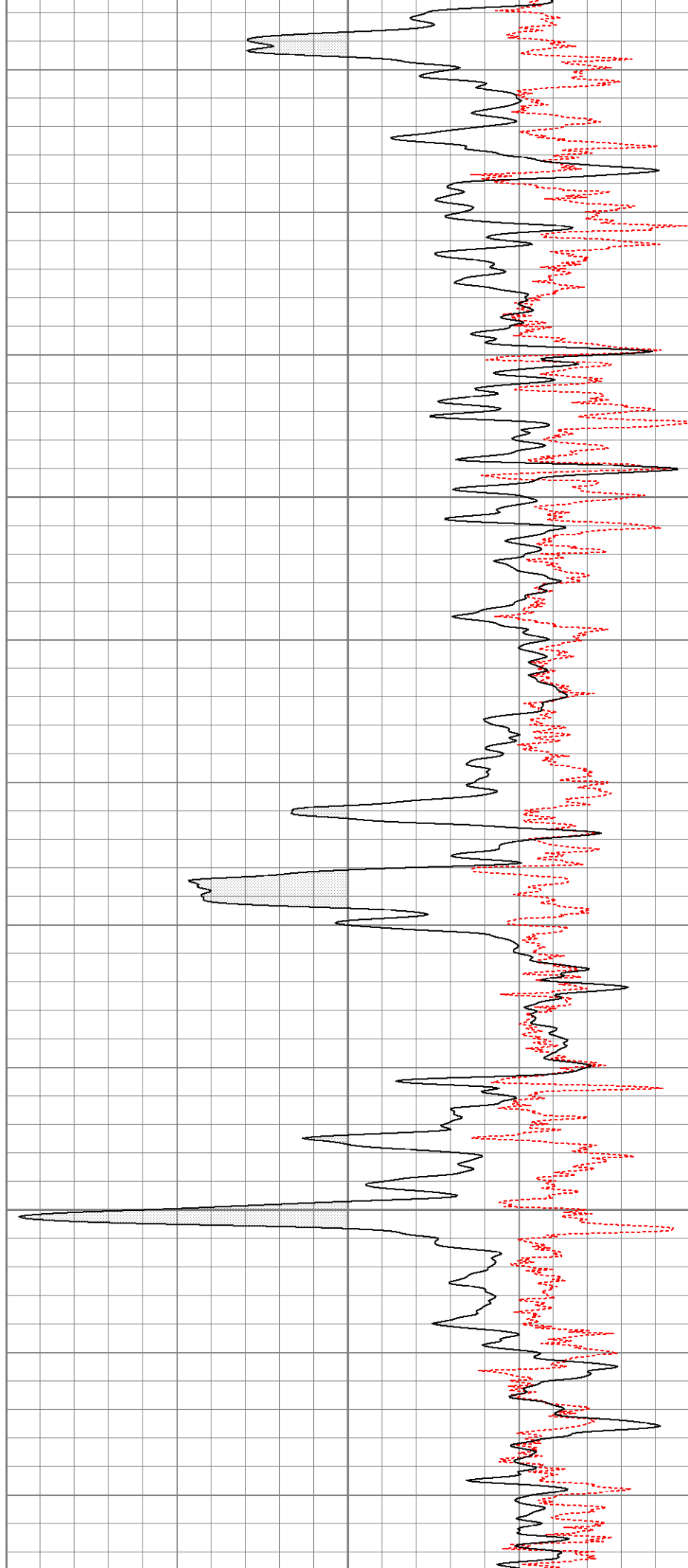
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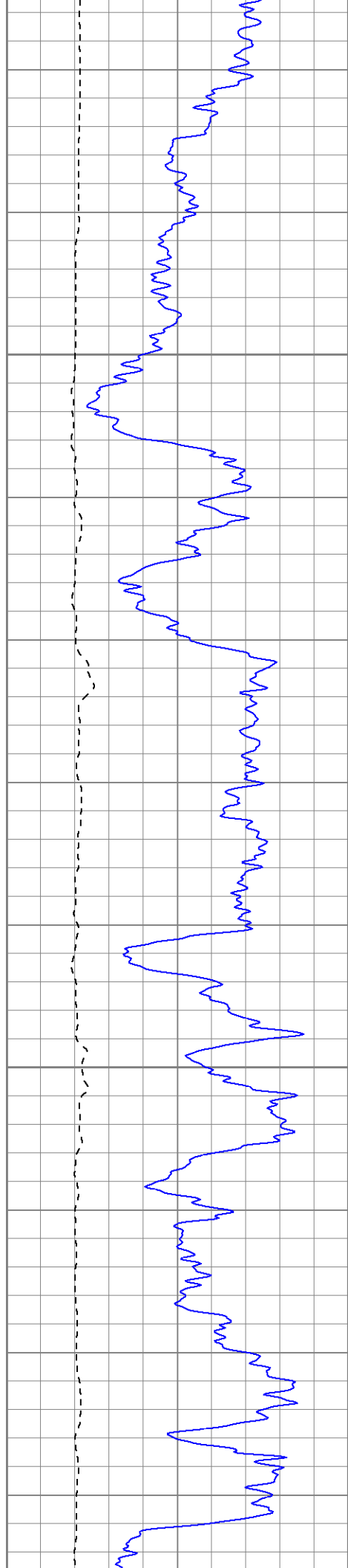




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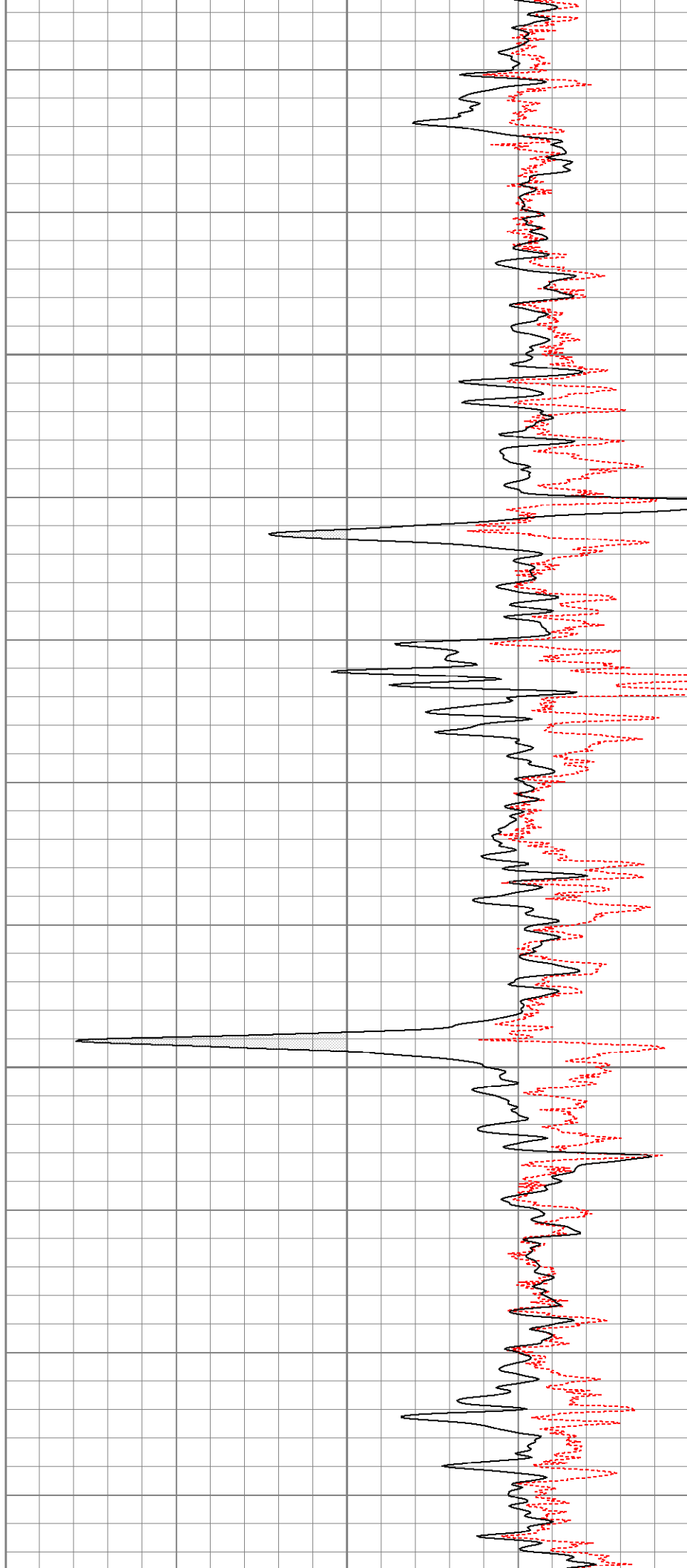
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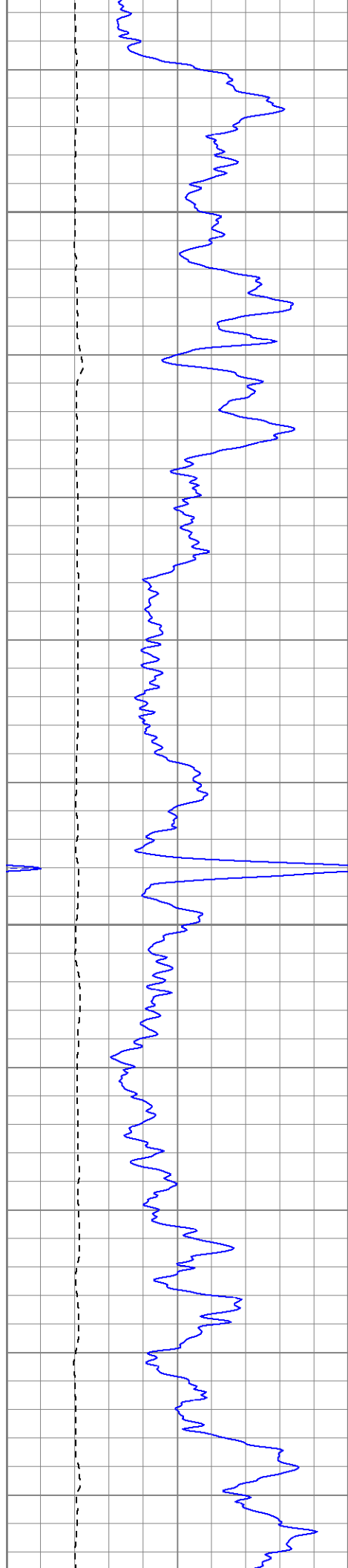




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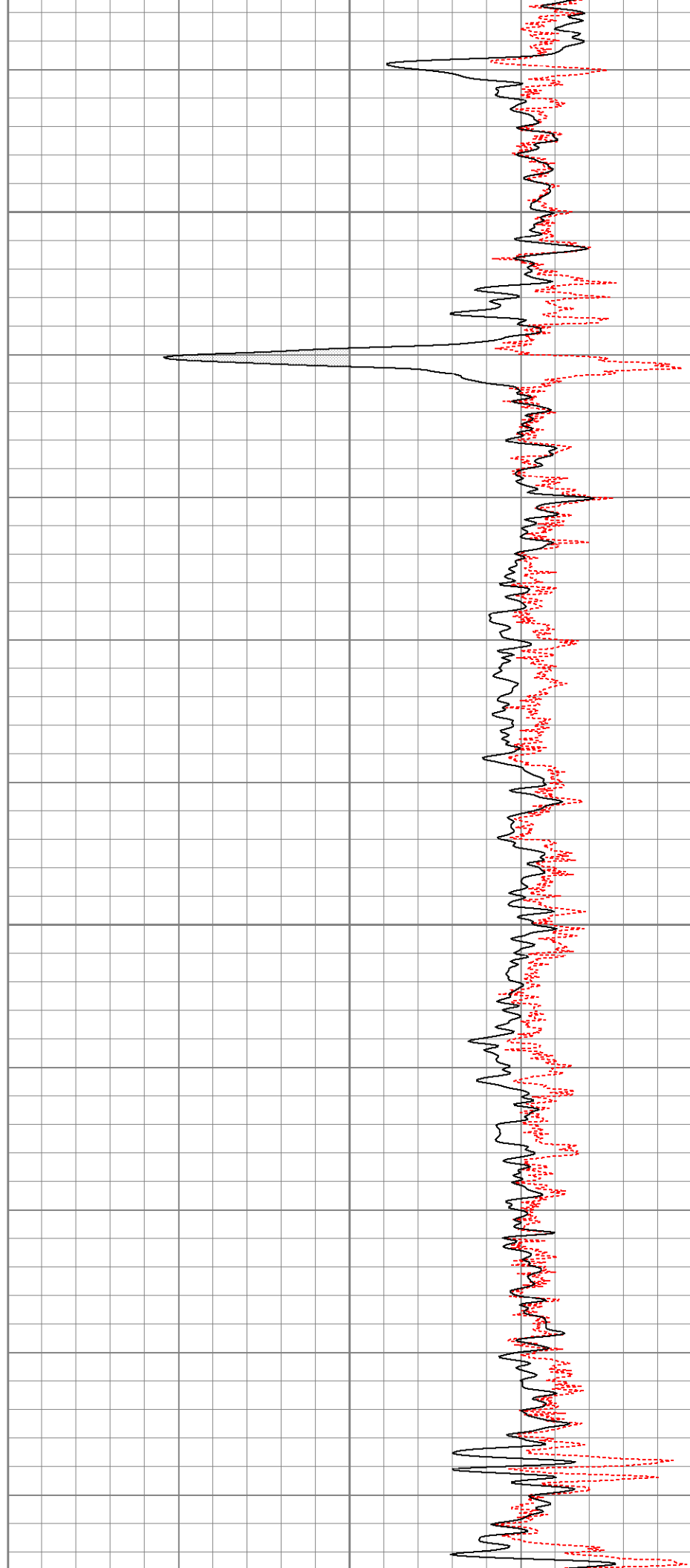
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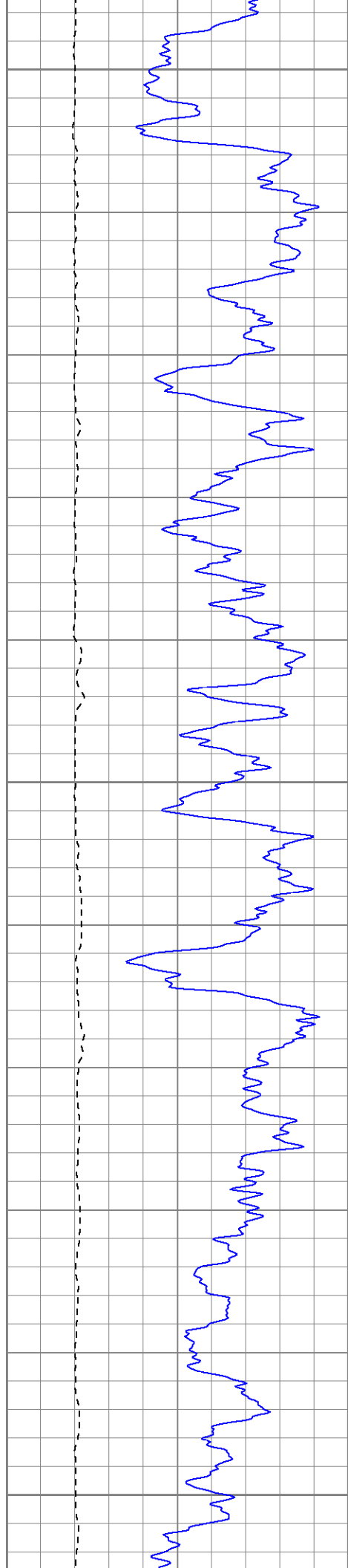




1200

1250

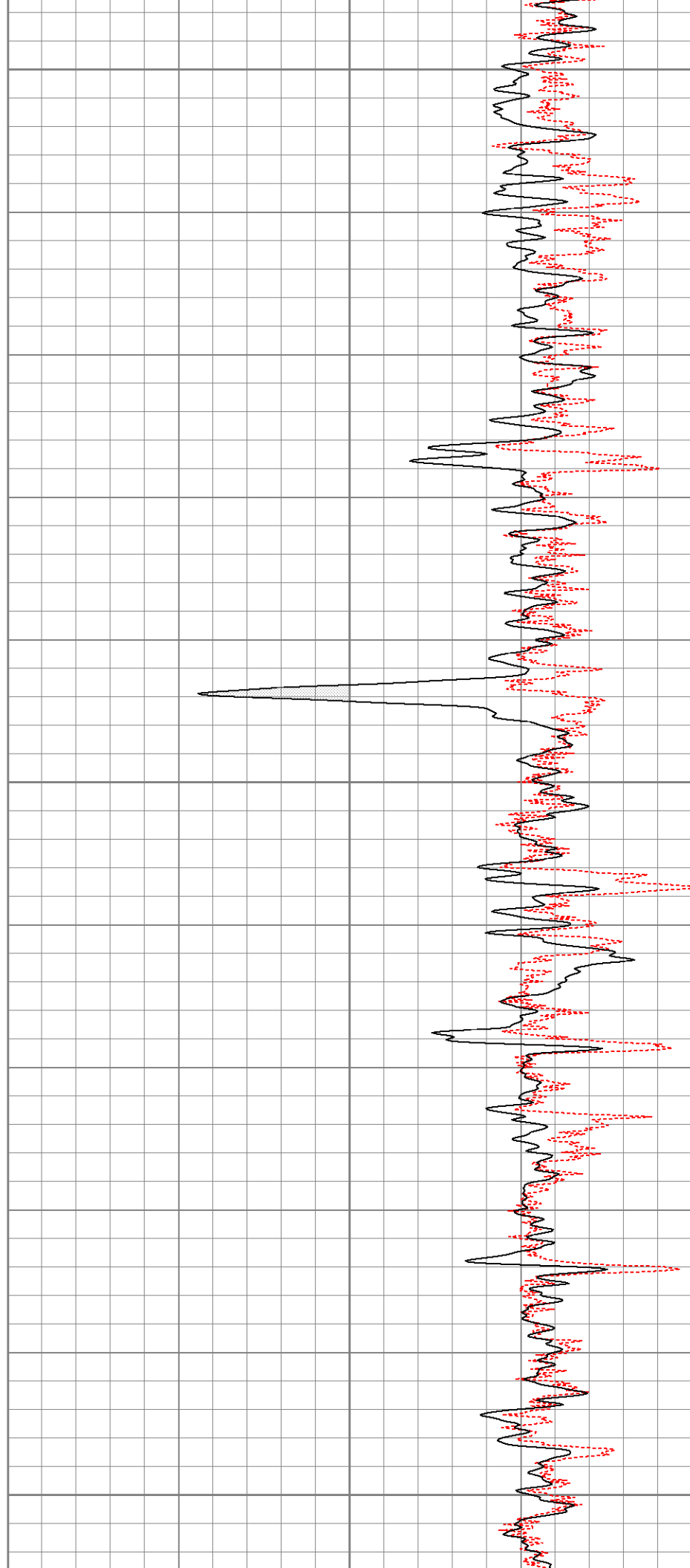


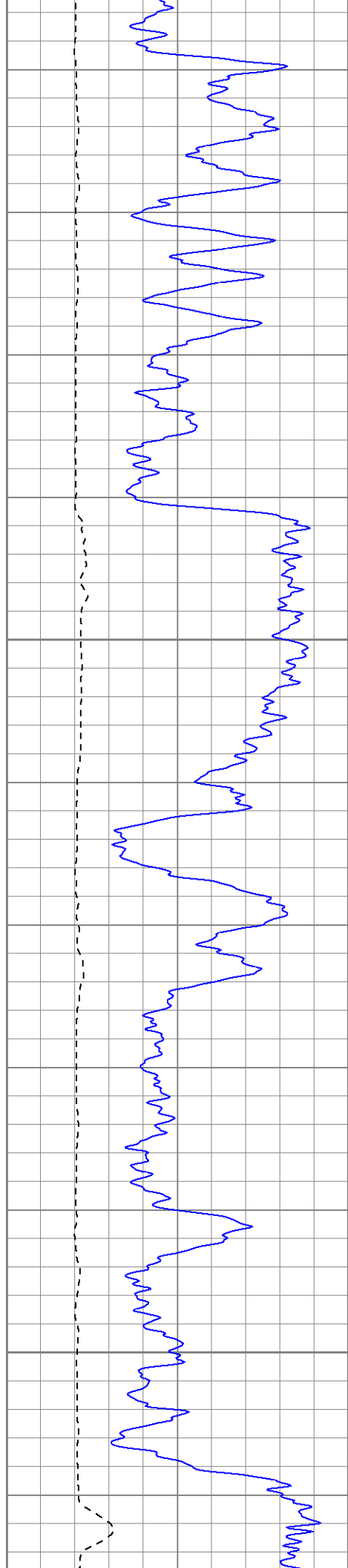


1300

1350

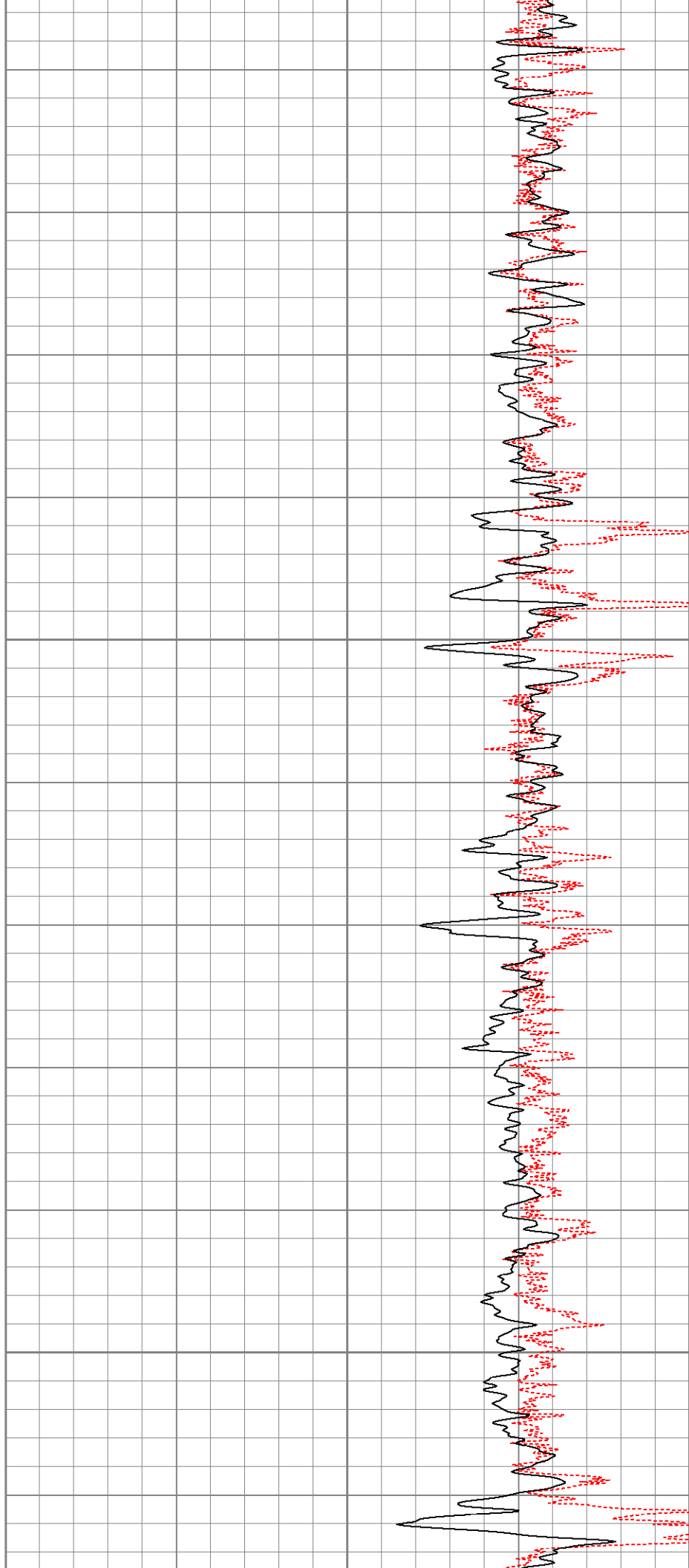
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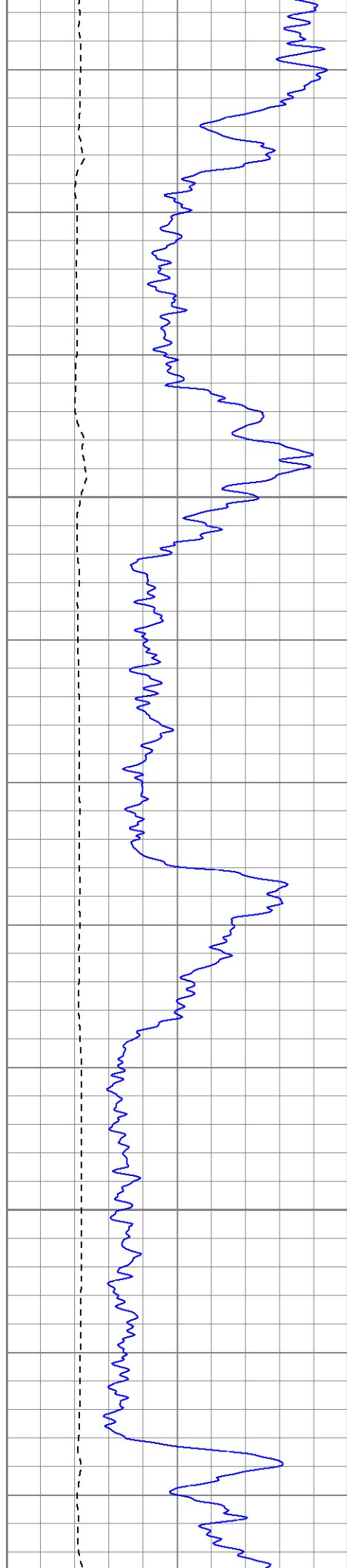




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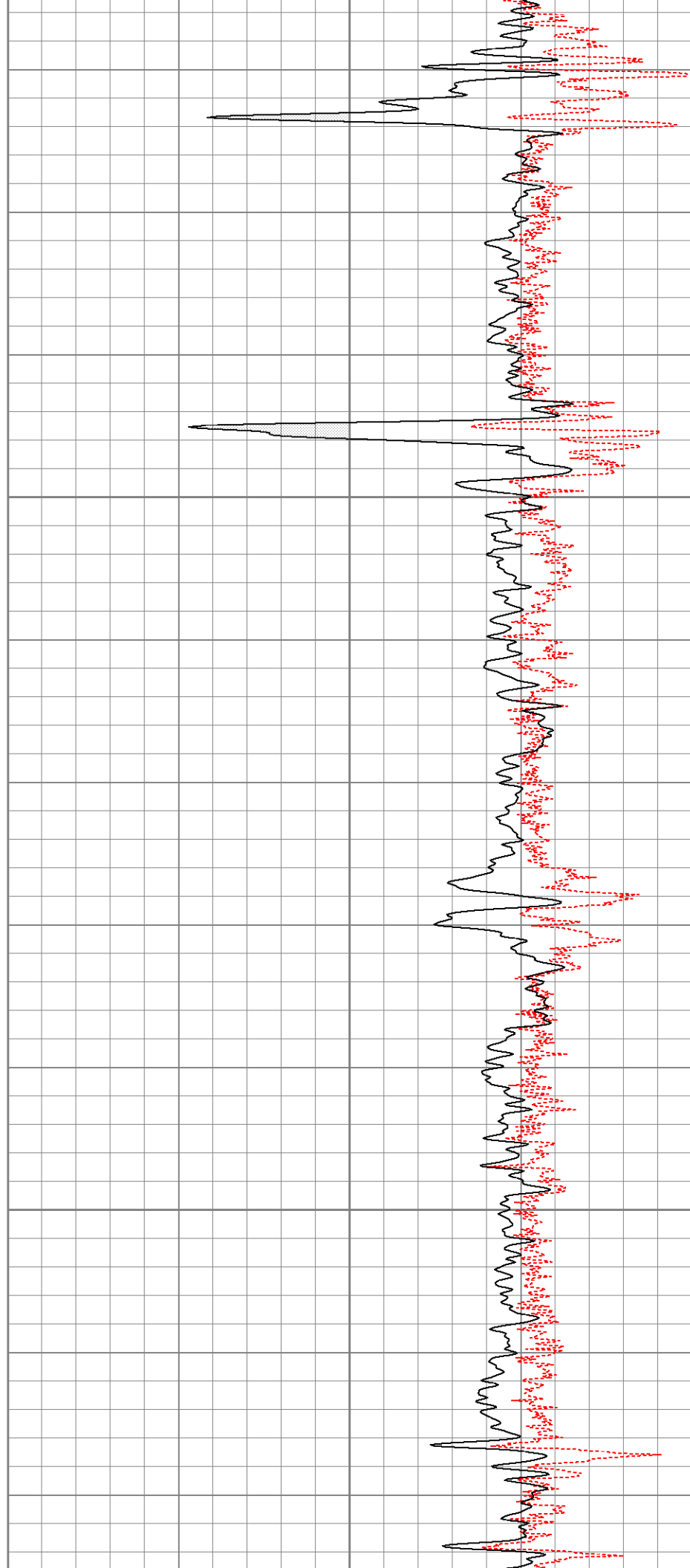
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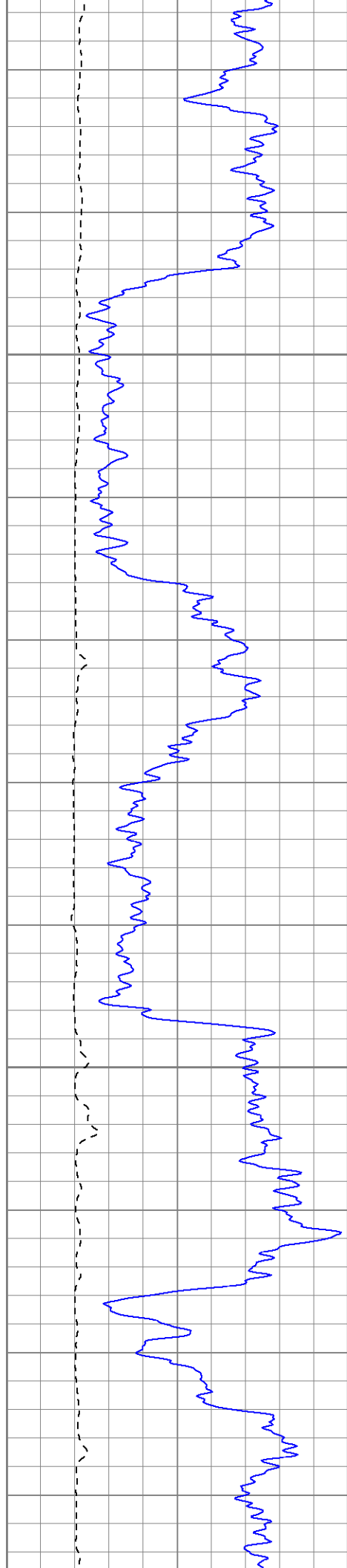




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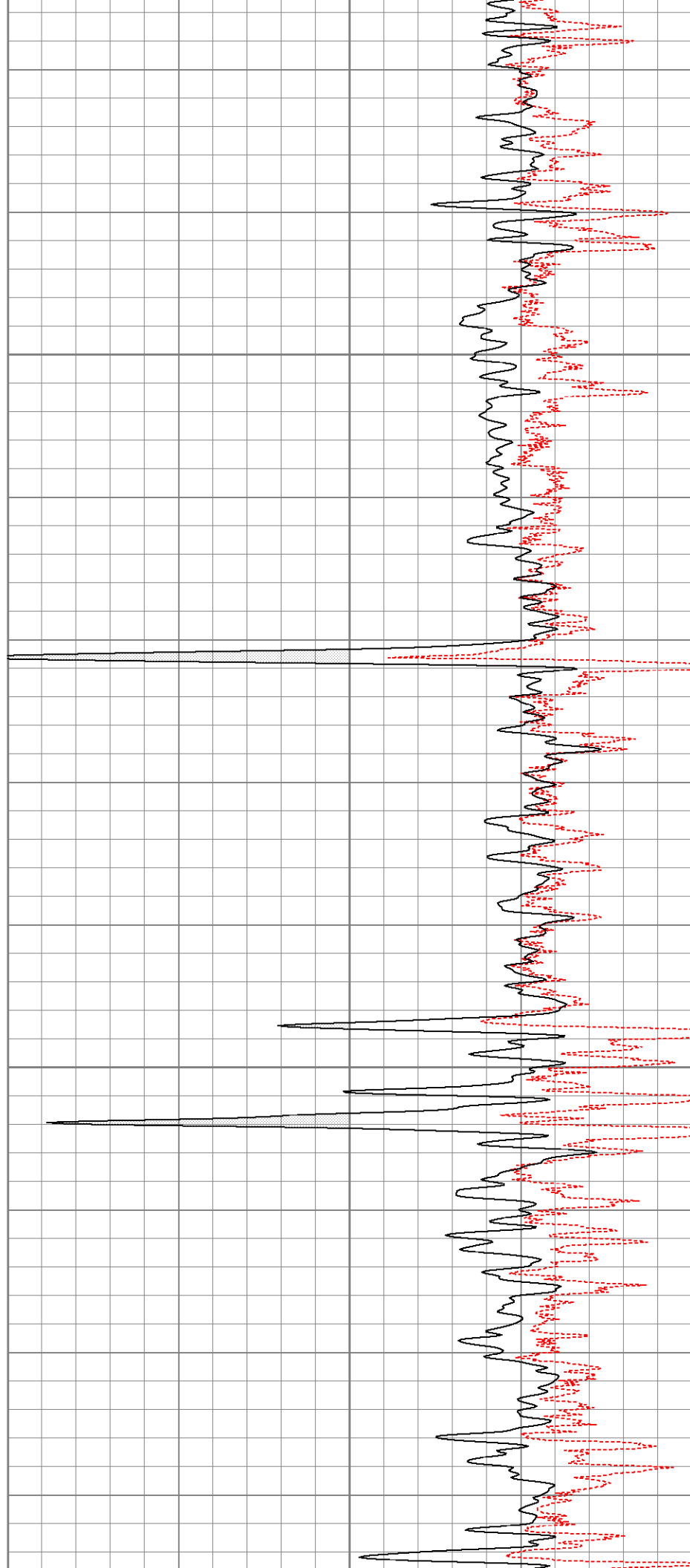
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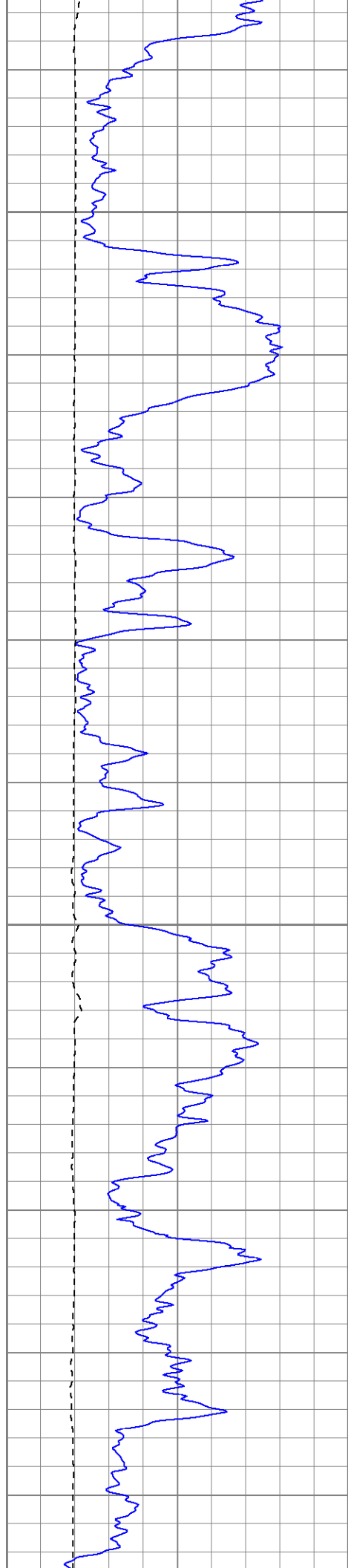




1650

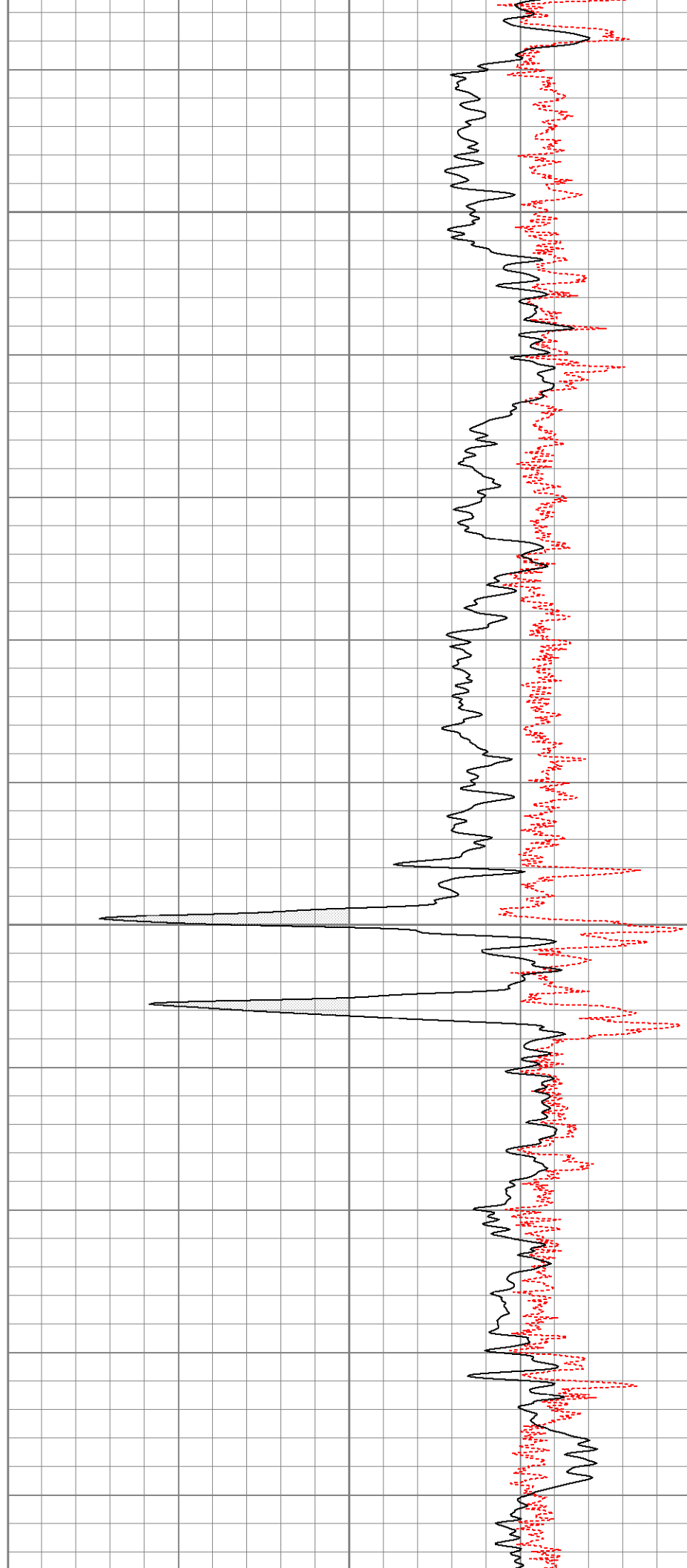
1700





1750

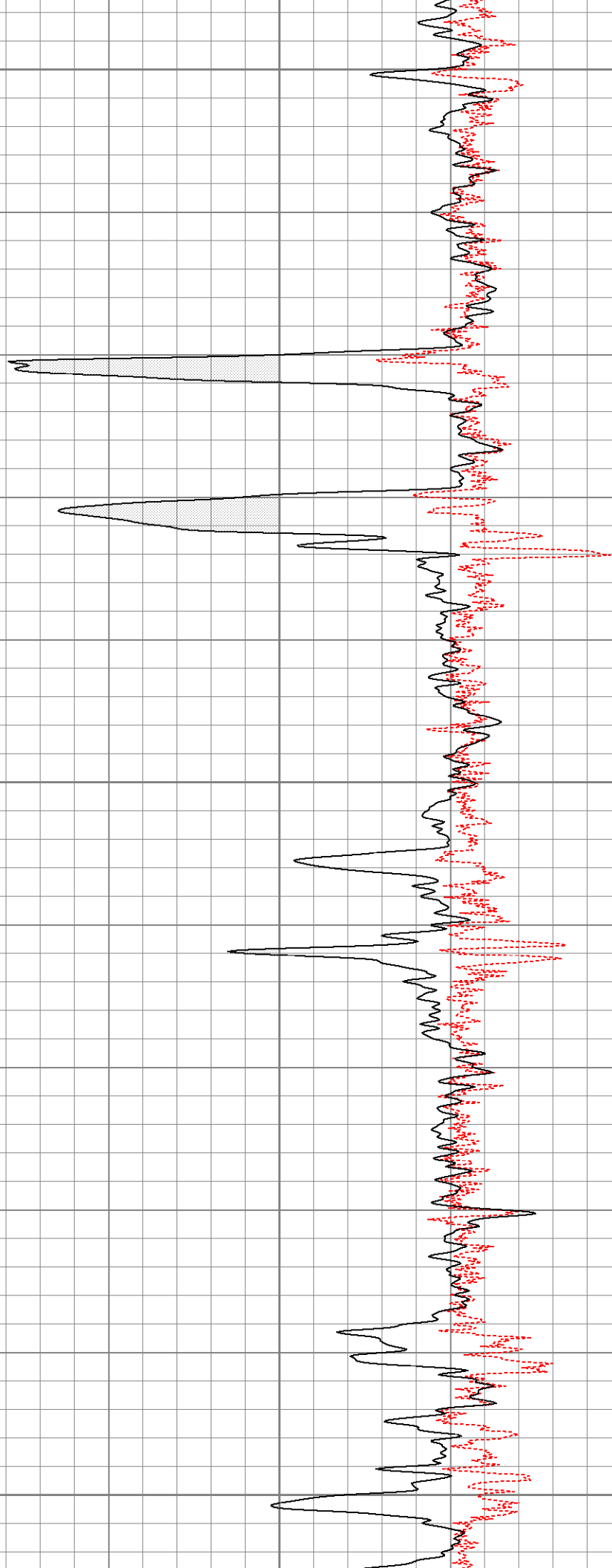
1800

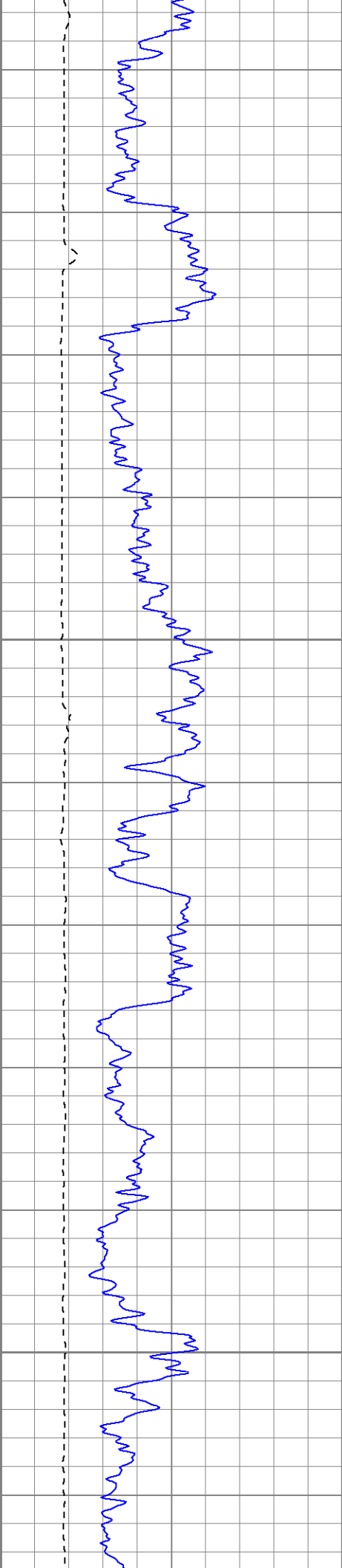


1850

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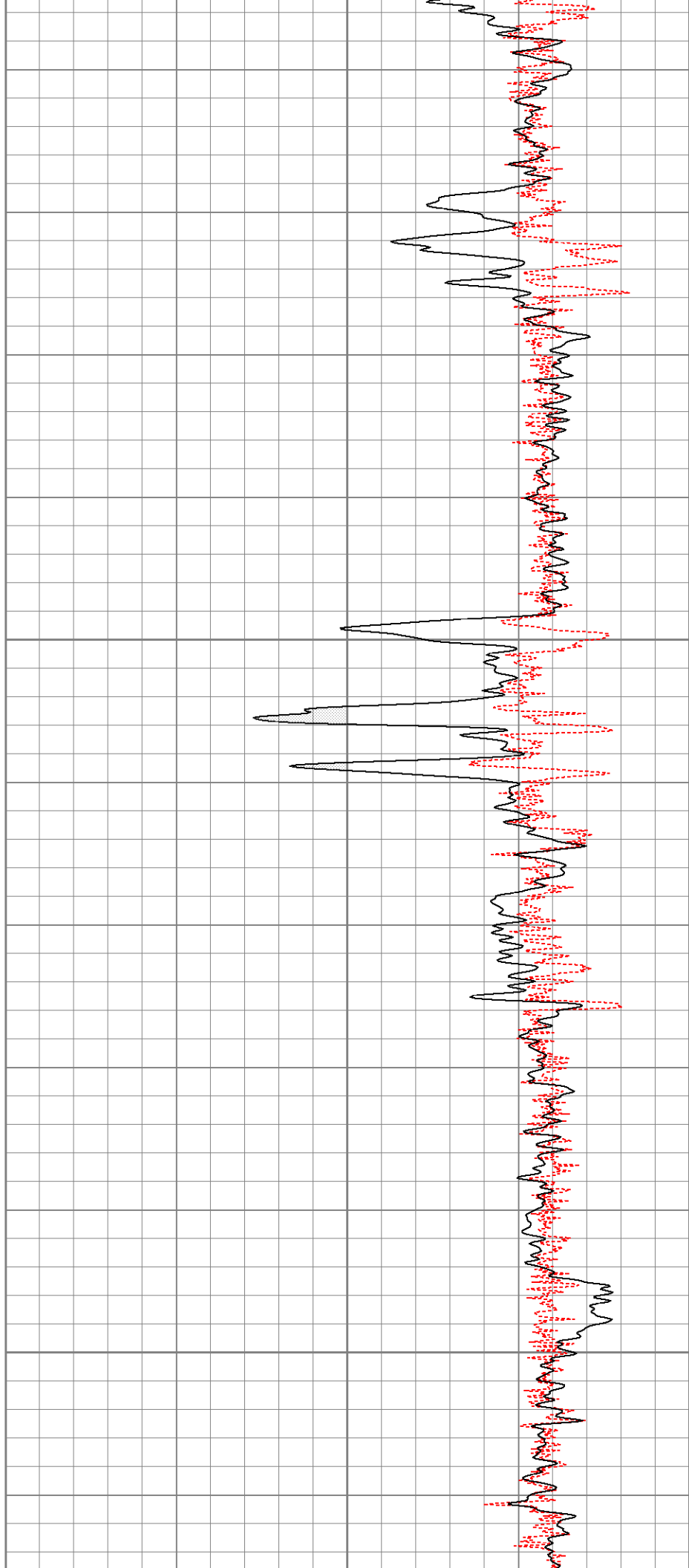
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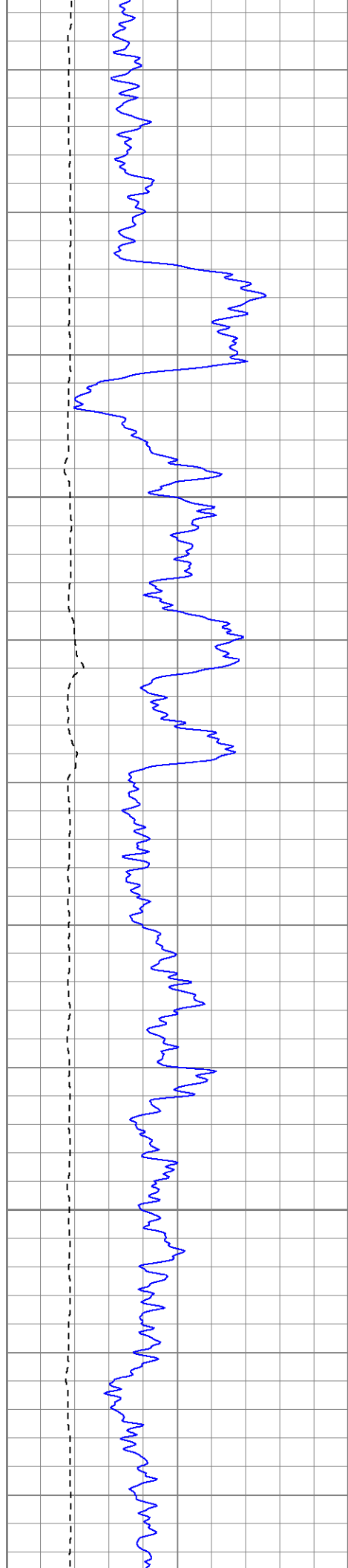




2000

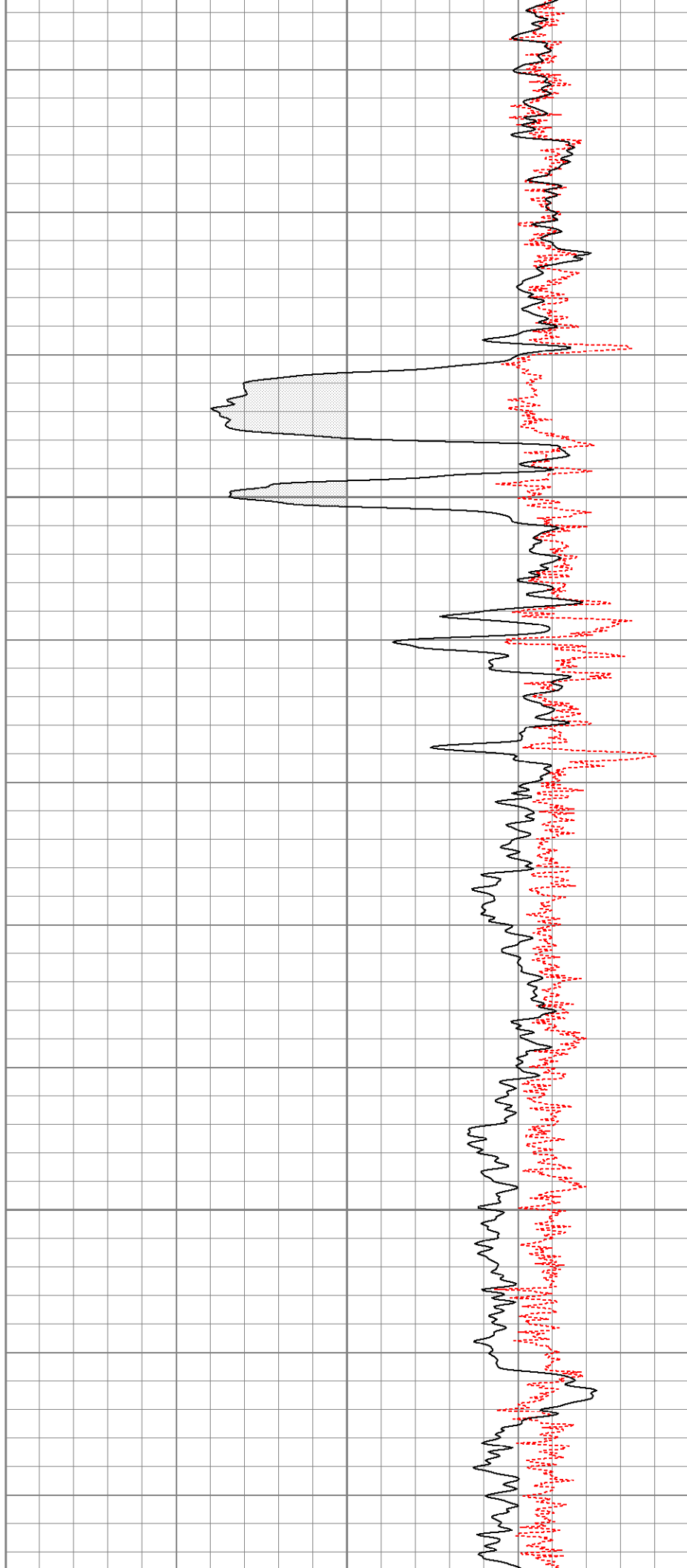
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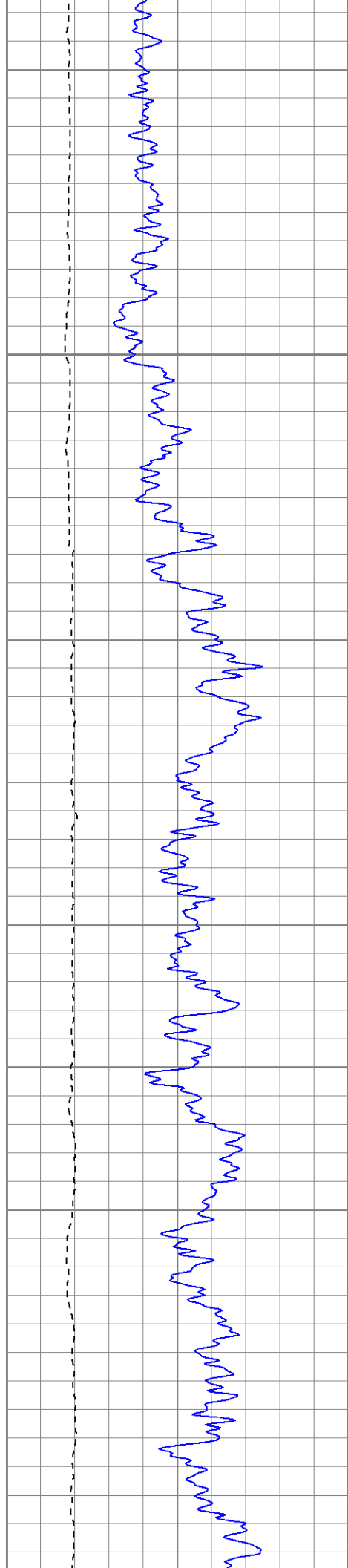




2100

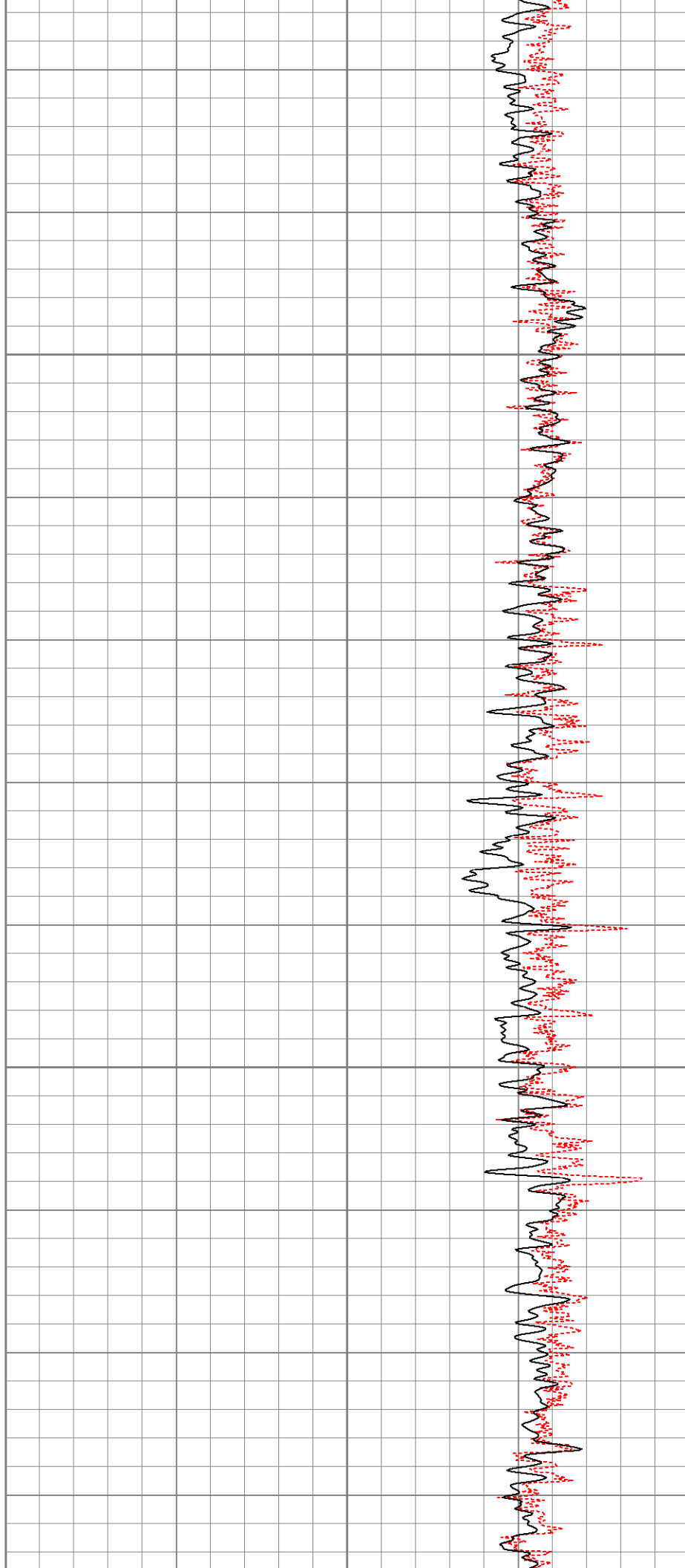
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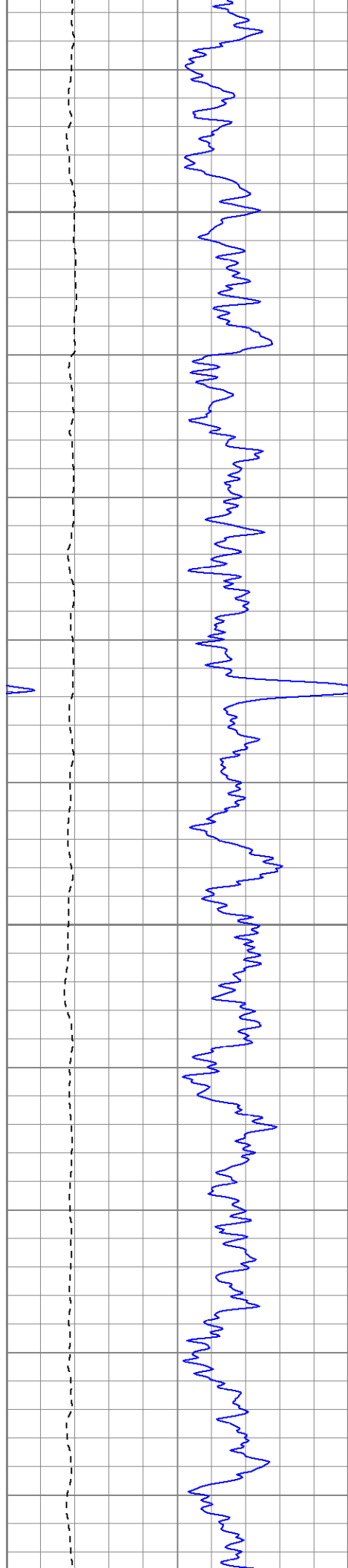




2200

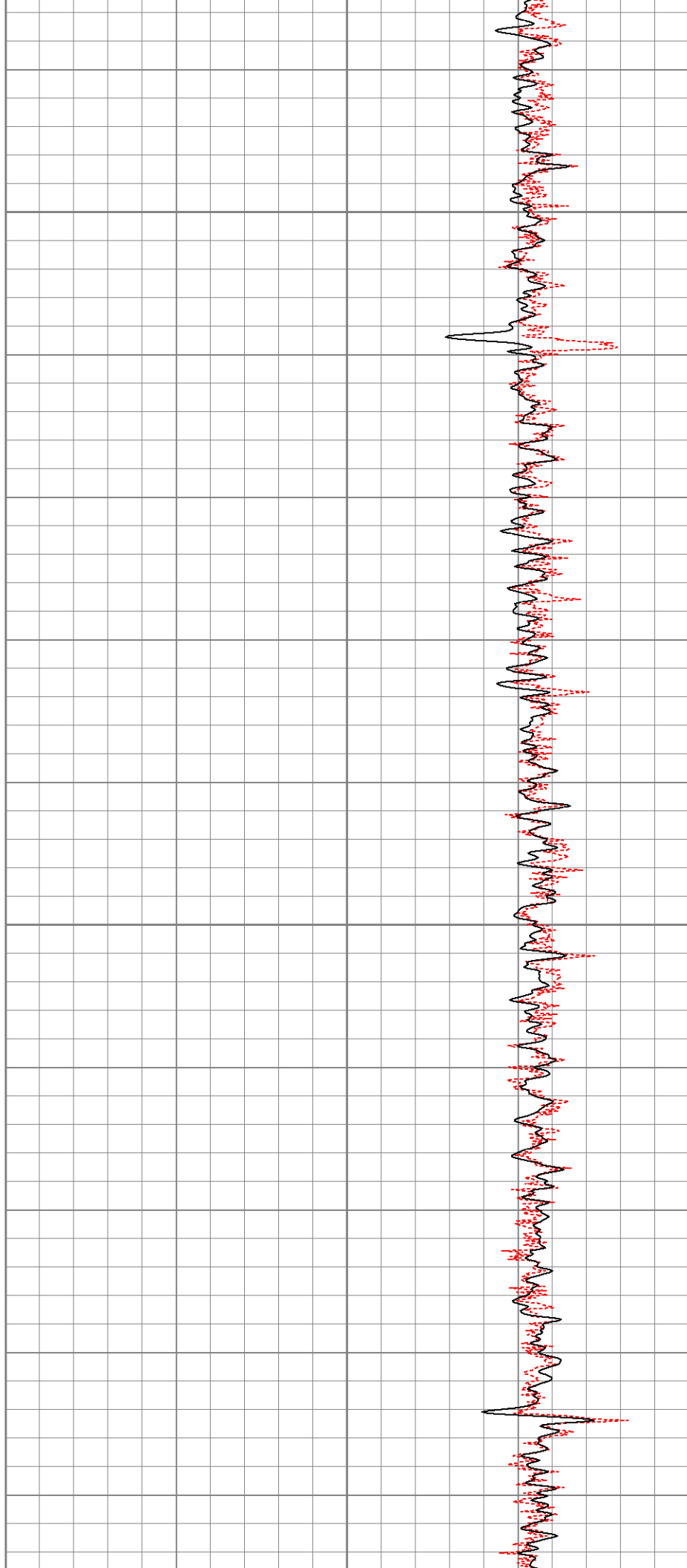
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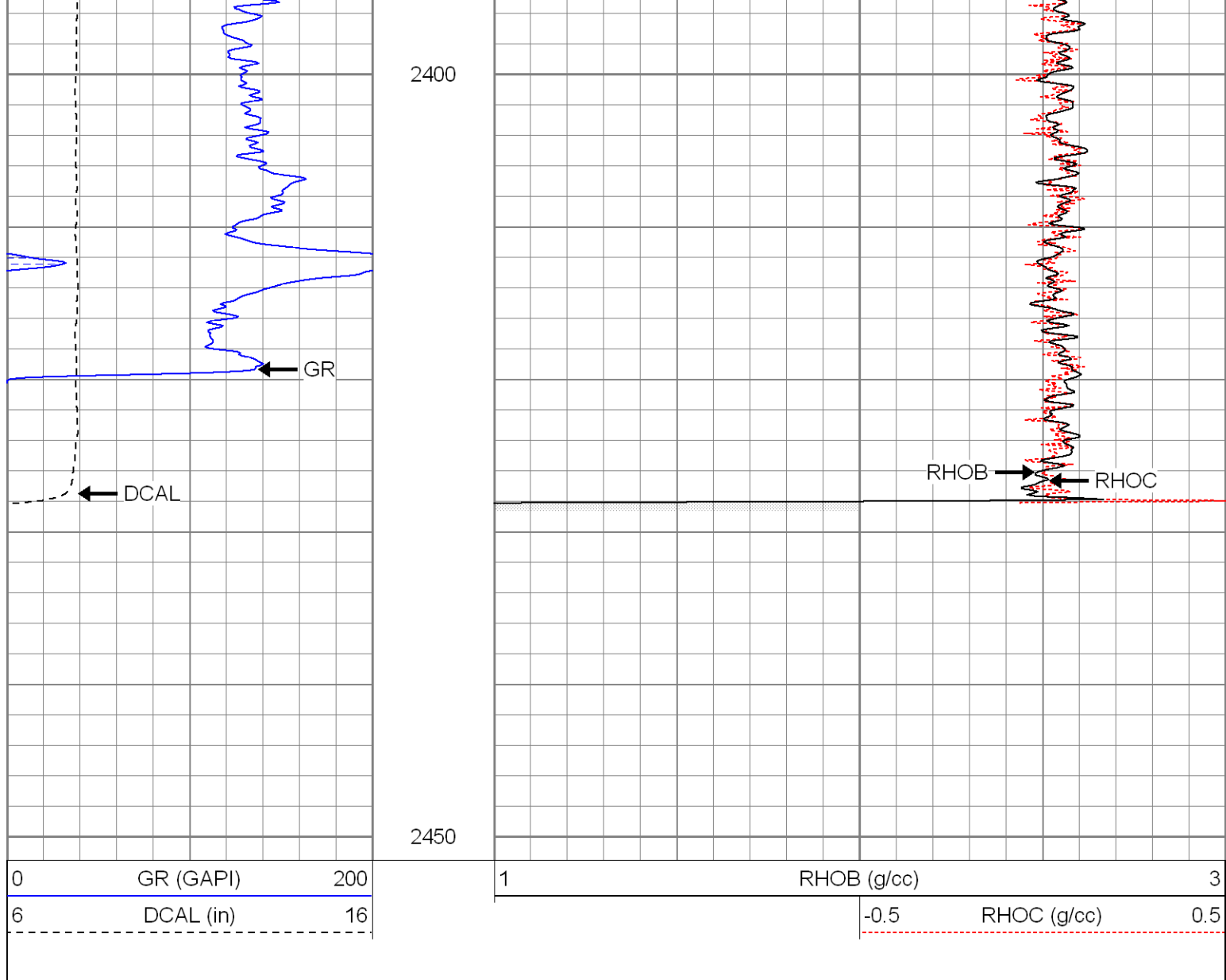




2300

2350





Calibration Report

Database File: xtohr2516.db
 Dataset Pathname: pass2
 Dataset Creation: Thu Aug 30 12:50:01 2007 by Log Open-Cased 061129

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Wed Aug 08 13:10:57 2007
 Downhole Cal Performed: Thu Aug 09 09:45:00 2007

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.002	0.622	V	0.000	500.000	mmho-m	807.380	-1.996
Medium	0.004	0.745	V	0.000	550.000	mmho-m	742.488	-3.313
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.621	V	0.000	500.000	mmho-m	807.436	-1.769
Medium	0.004	0.745	V	0.000	550.000	mmho-m	742.818	-3.183

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.000	mmho-m	-0.227	499.739	mmho-m	1.000	0.000
Medium	0.000	0.000	mmho-m	-0.131	549.624	mmho-m	1.000	0.000
Shallow	2.506	0.009	V	500.000	2.000	Ohm-m	105.000	0.000

Compensated Density Calibration Report

Serial-Model: 2118-poilex
 Source / Verifier: /
 Master Calibration Performed: Fri Aug 17 09:14:33 2007

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	698.03	691.84	cps
Aluminum	2.590	g/cc	159.73	473.01	cps
Spine Angle = 75.54			Density/Spine Ratio = 0.578		
	Size		Reading		
Small Ring	7.85	in	4.25	V	
Large Ring	14.00	in	9.25	V	

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Wed Aug 08 12:47:02 2007

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.1700 GAPI/cps

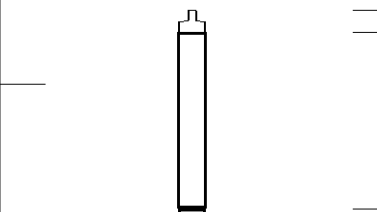
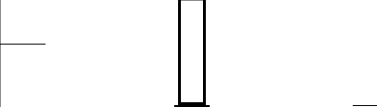
Neutron Calibration Report

Serial Number: 5145
 Tool Model: G
 Performed: Wed Aug 08 10:32:23 2007

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

