



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well New Elk 25-01
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09356 00

454' FNL & 135' FEL

Other Services
DIL

SEC 25 TWP 33S RGE 68W

Permanent Datum Ground Level Elevation 7943'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 7943'

Date	8-05-07	8-09-07	
Run Number	One	Three	
Depth Driller	2225'	2225'	
Depth Logger	1828'	2227'	
Bottom Logged Interval	1811'	2225'	
Top Log Interval	Surface Casing	Surface Casing	
Casing Driller	8 5/8" @ 496'	8 5/8" @ 496'	
Casing Logger	496'	496'	
Bit Size	7 7/8"	7 7/8"	
Type Fluid in Hole	Water	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	6:30 P.M.	7:45 A.M.	
Time Logger on Bottom	9:15 P.M.	10:30 A.M.	
Maximum Recorded Temperature	94 DEG F	103 DEG F	
Equipment Number	T697	T697	
Location	Trinidad	Trinidad	
Recorded By	M. Norton	M. Norton	
Witnessed By	Mr. Don Johnson	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:
Second Bosque entrance four miles after Weston,
right on Apache Canyon, first right after third drive thru location, end on location.

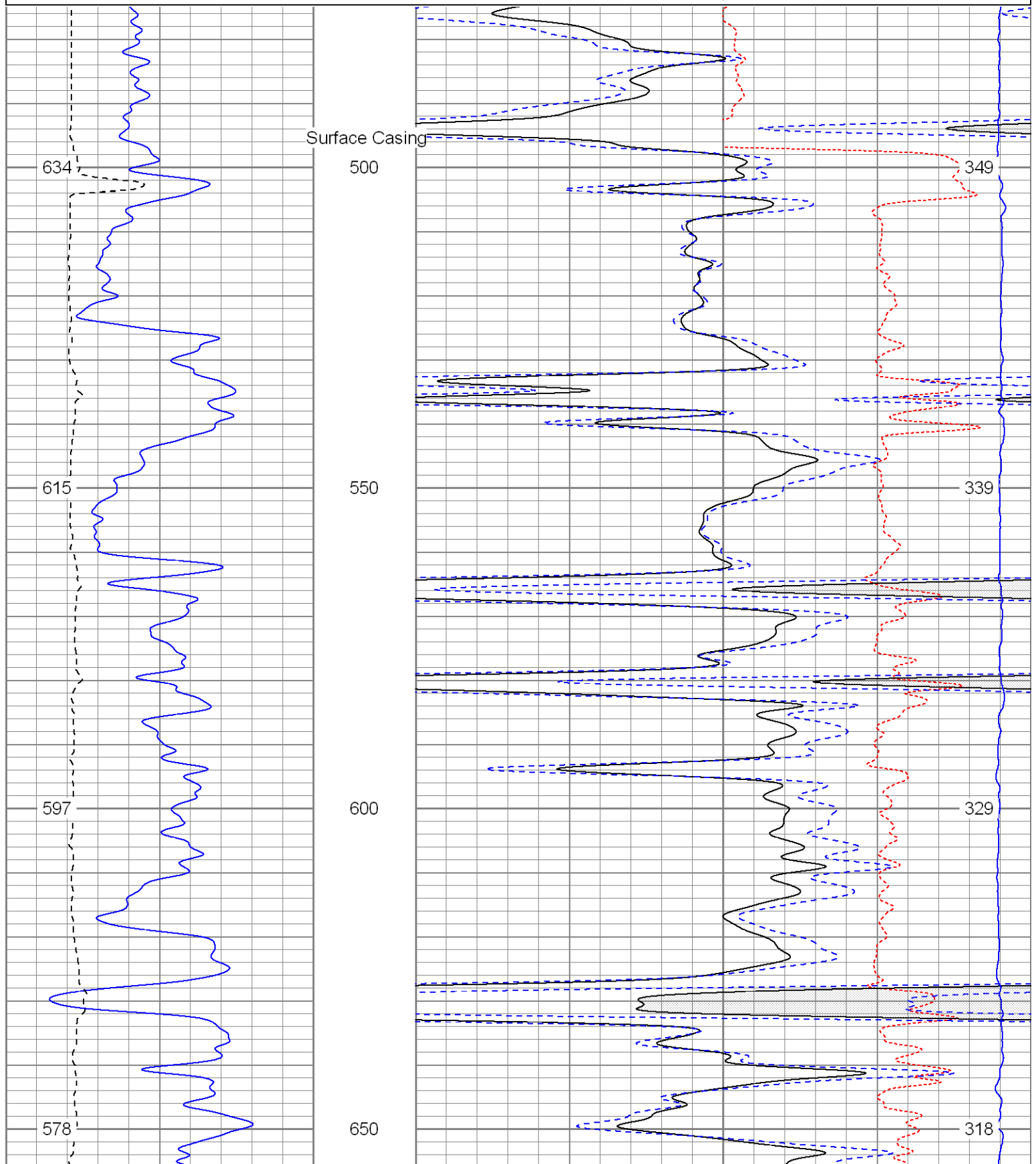


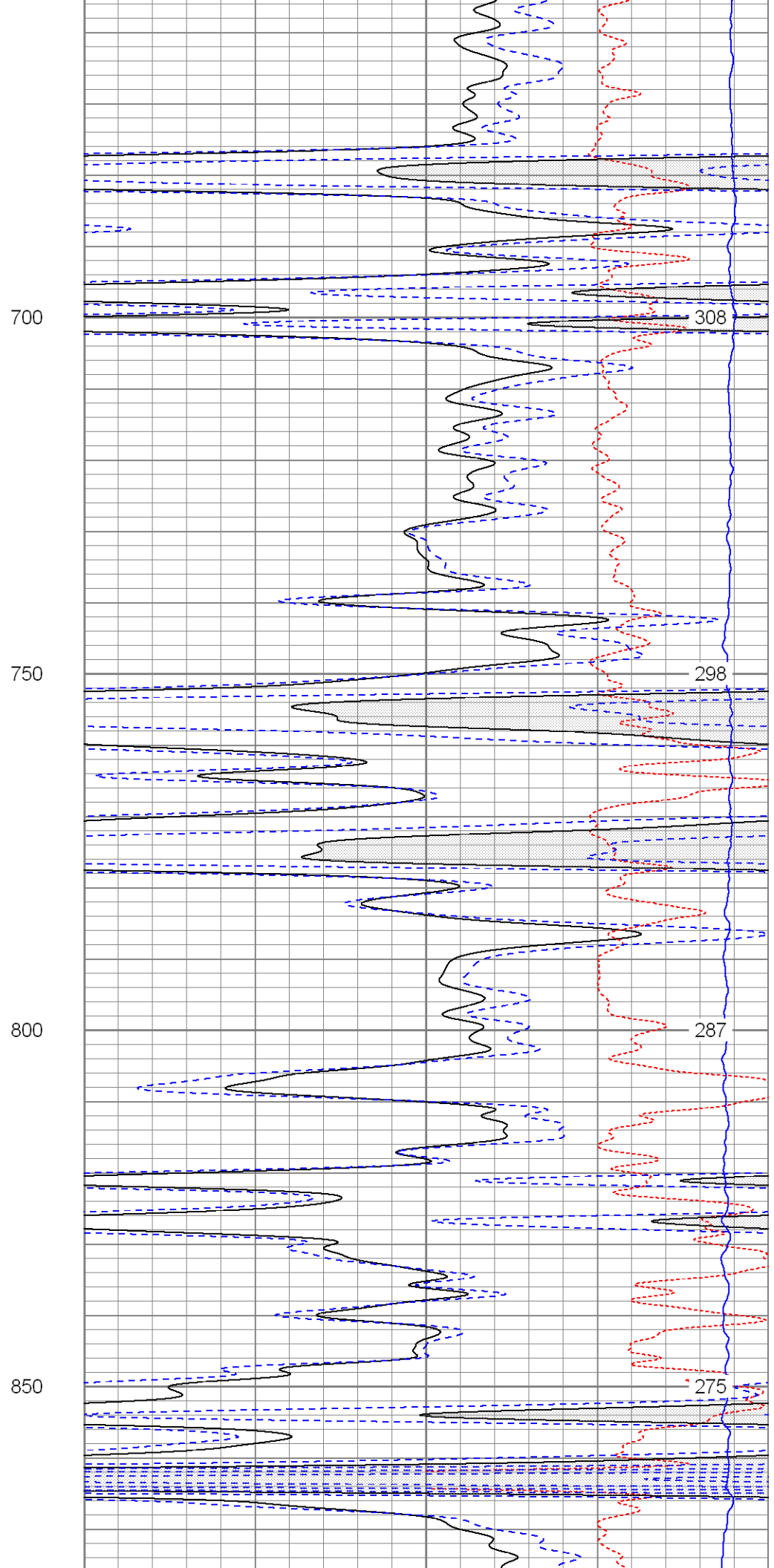
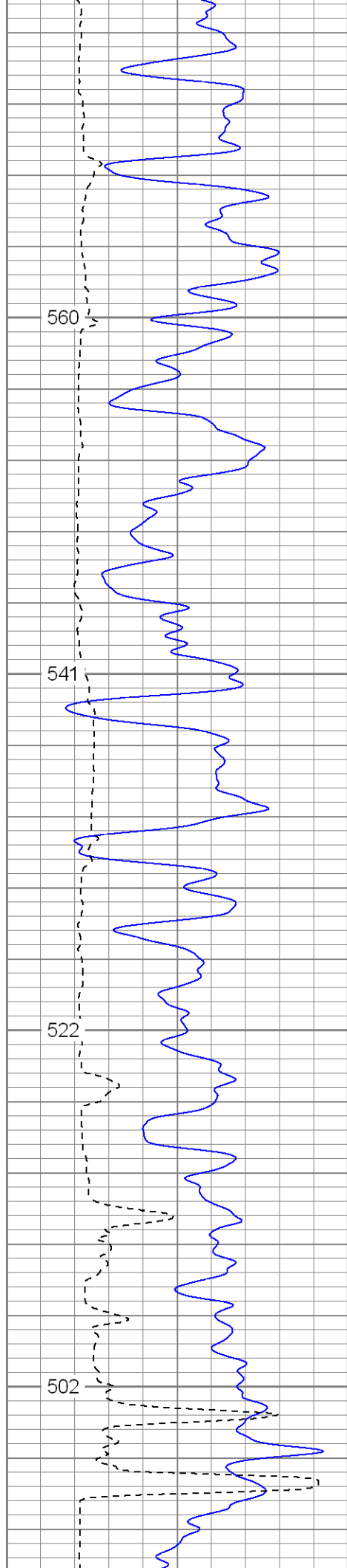
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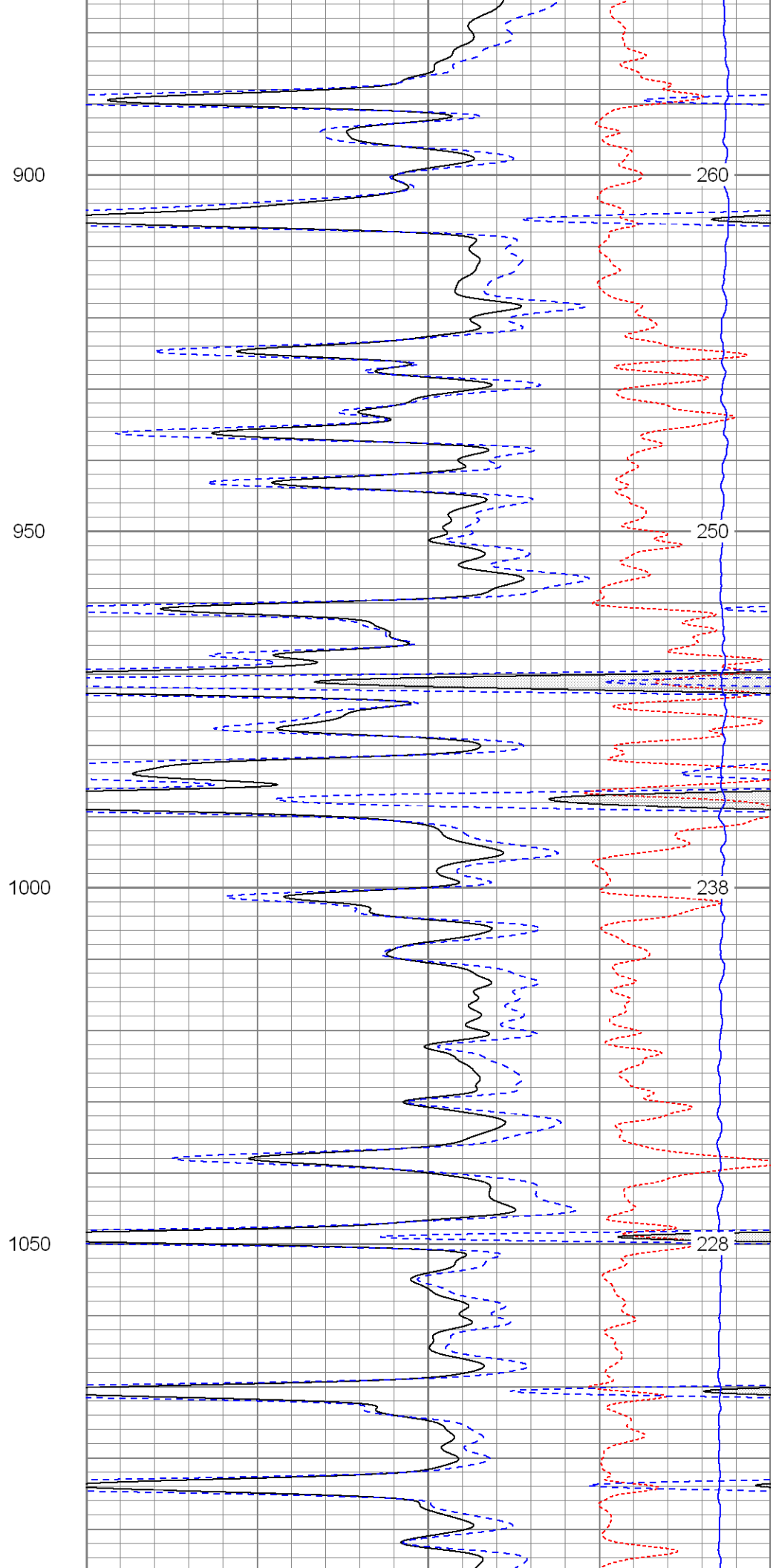
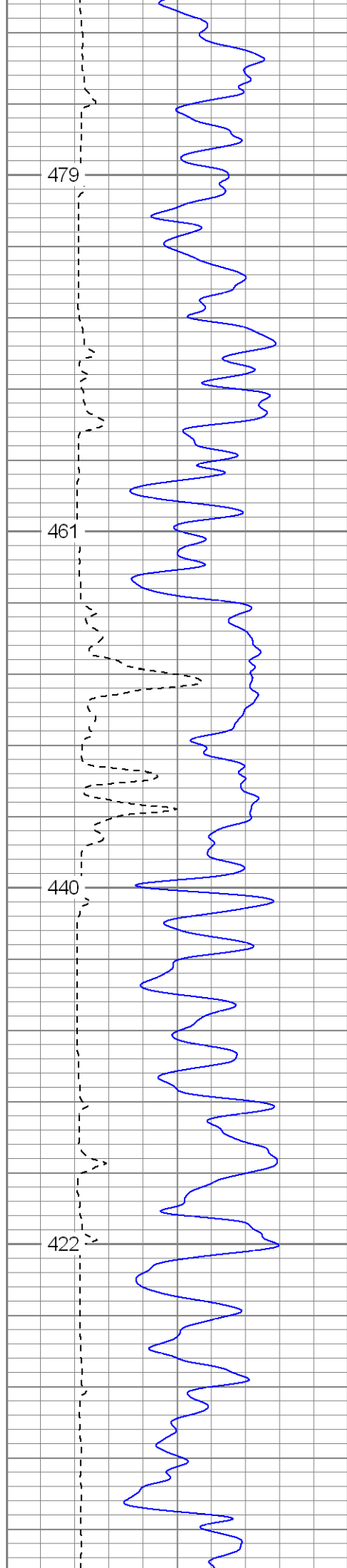
Main Pass

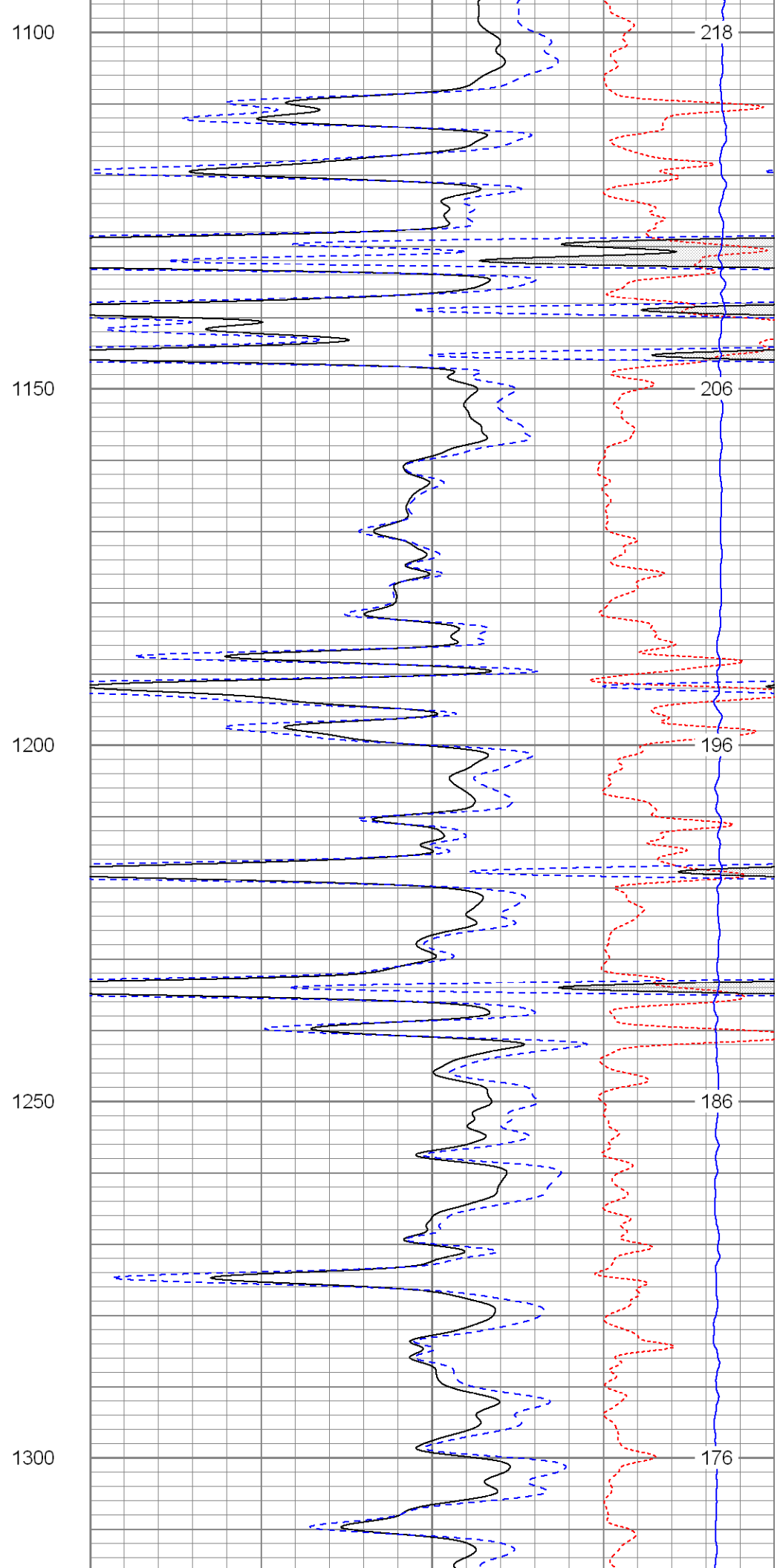
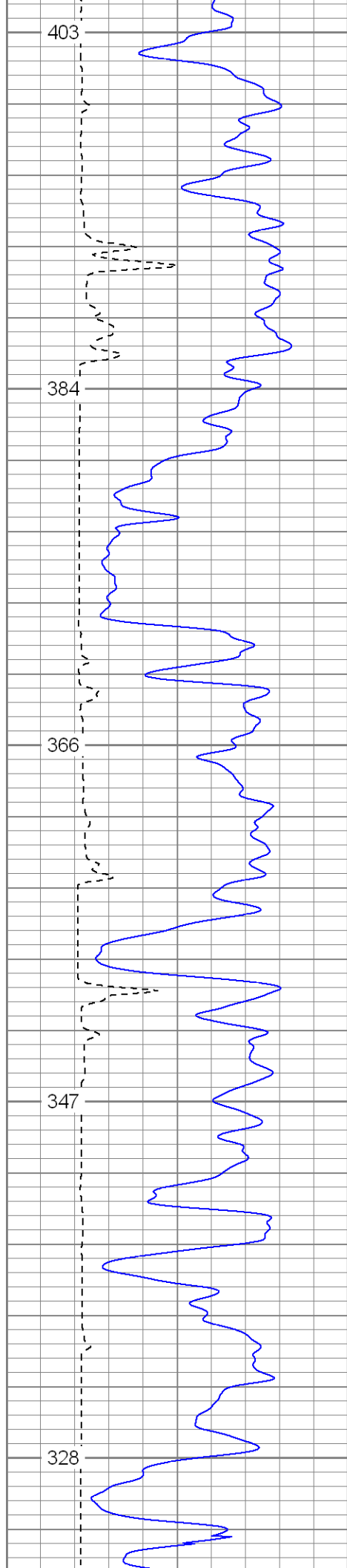
Database File: xtone2501.db
Dataset Pathname: pass6.1
Presentation Format: cdl
Dataset Creation: Thu Aug 09 12:08:02 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

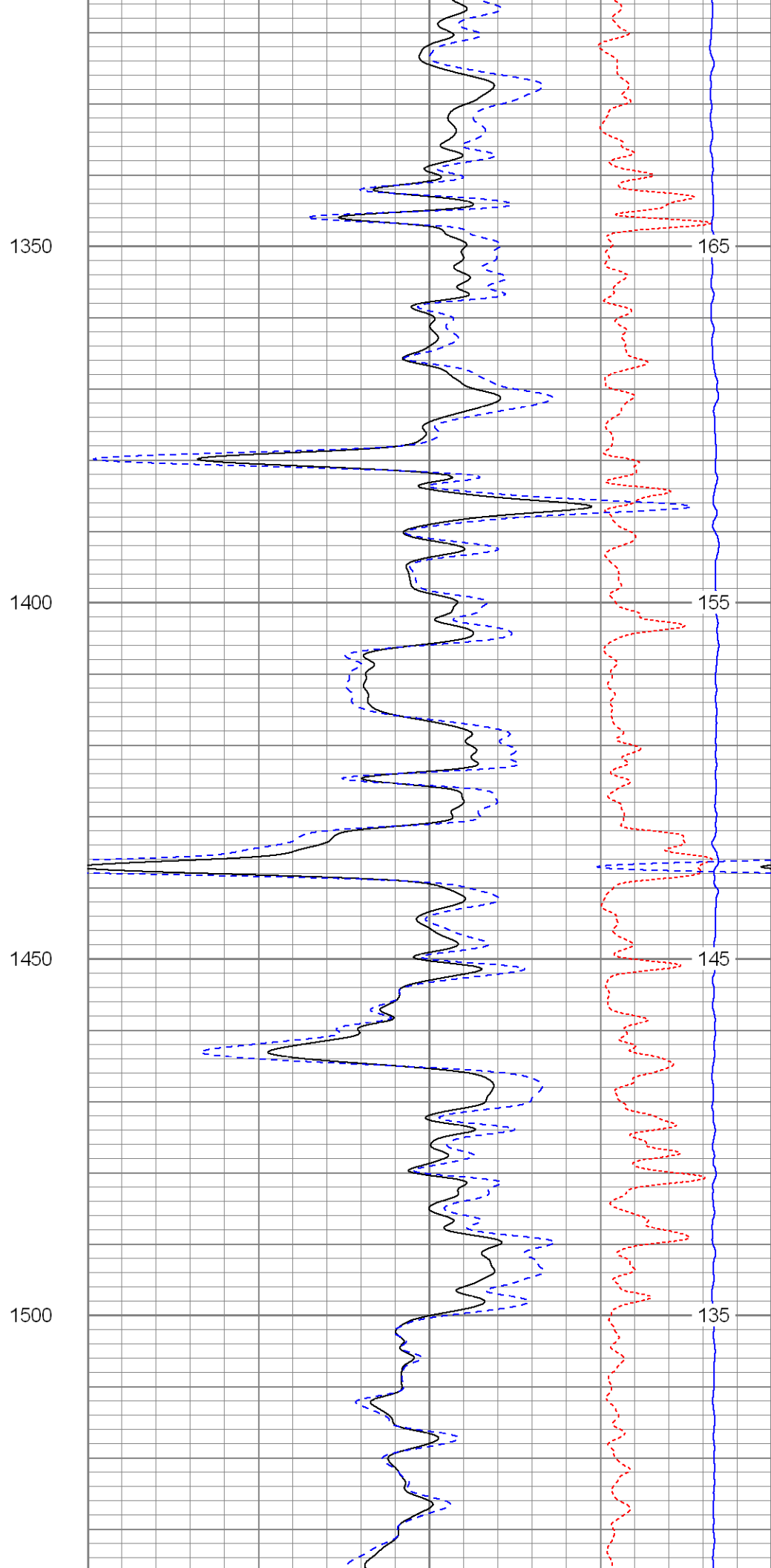
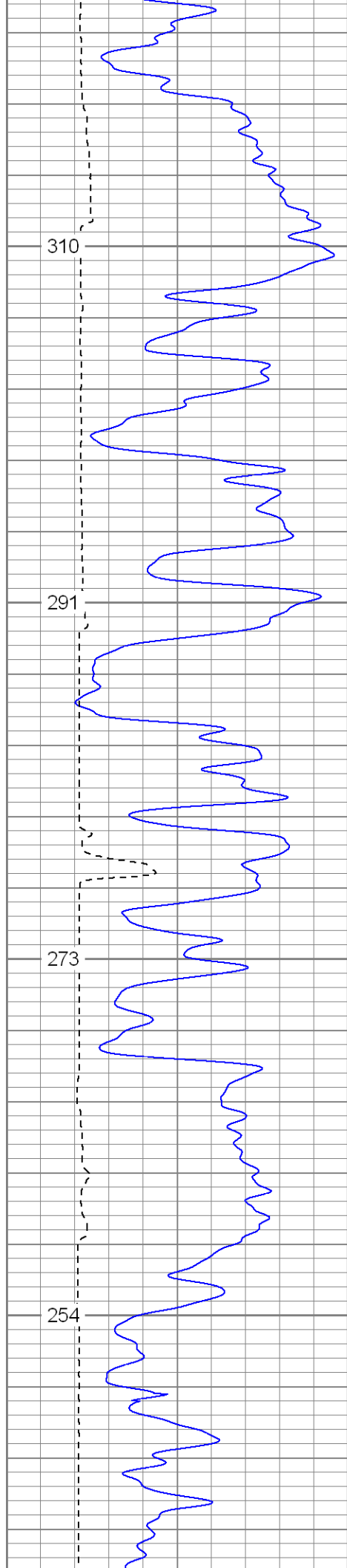
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0

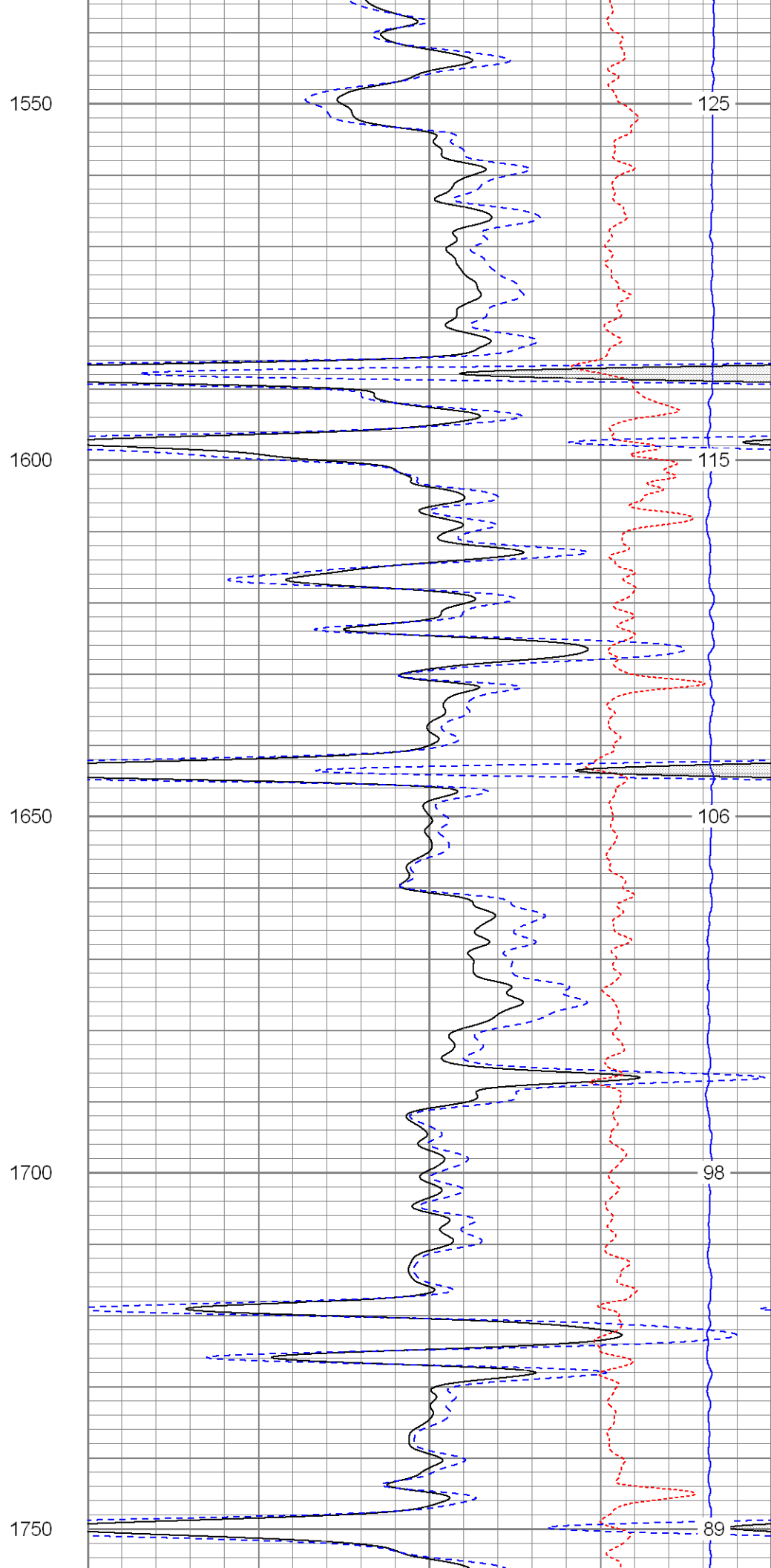
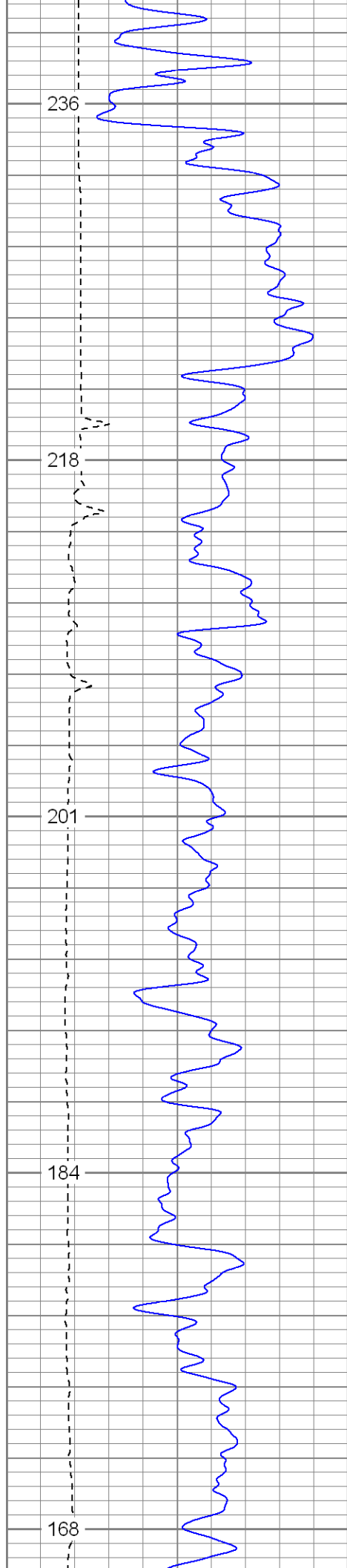


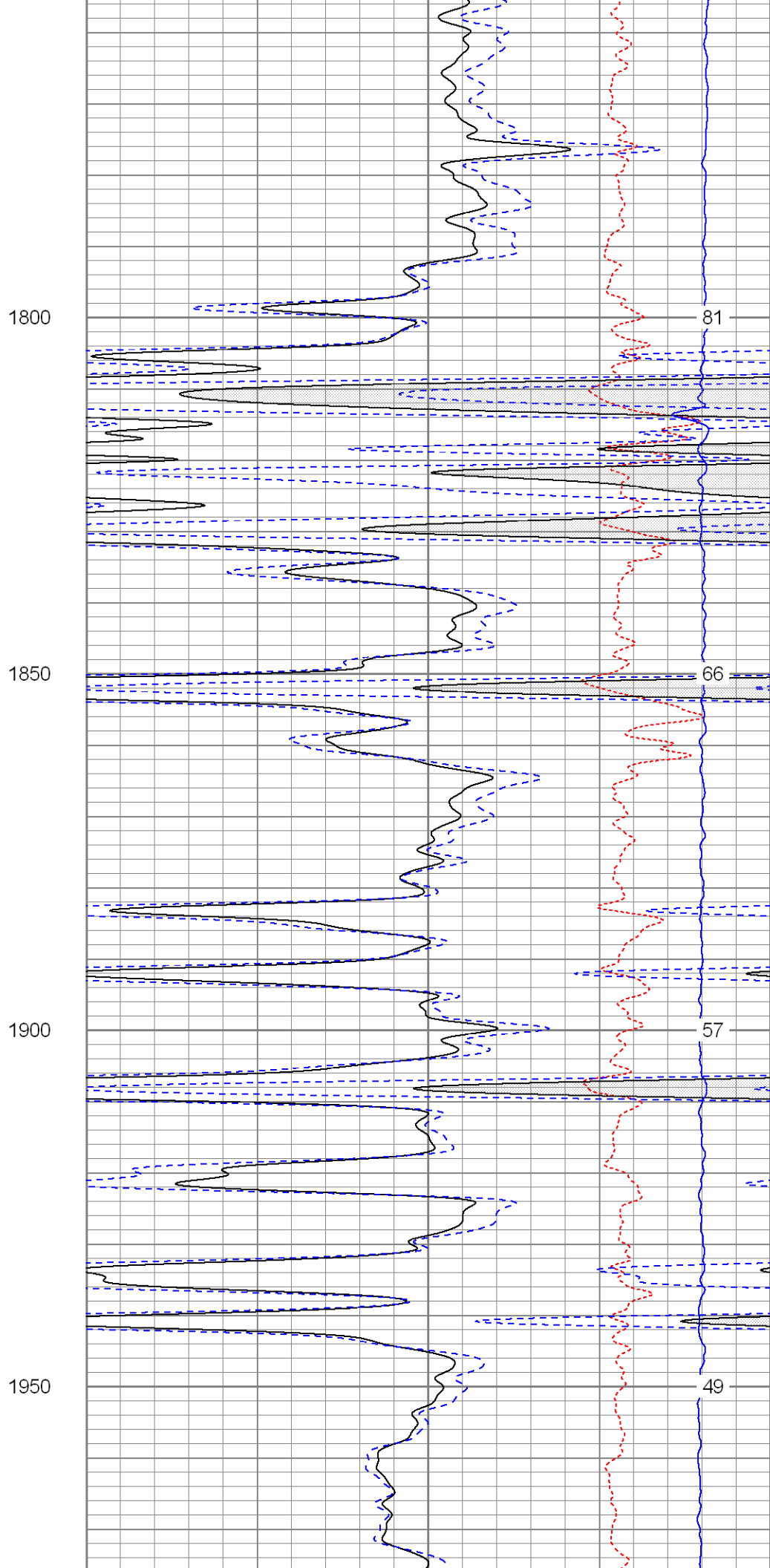
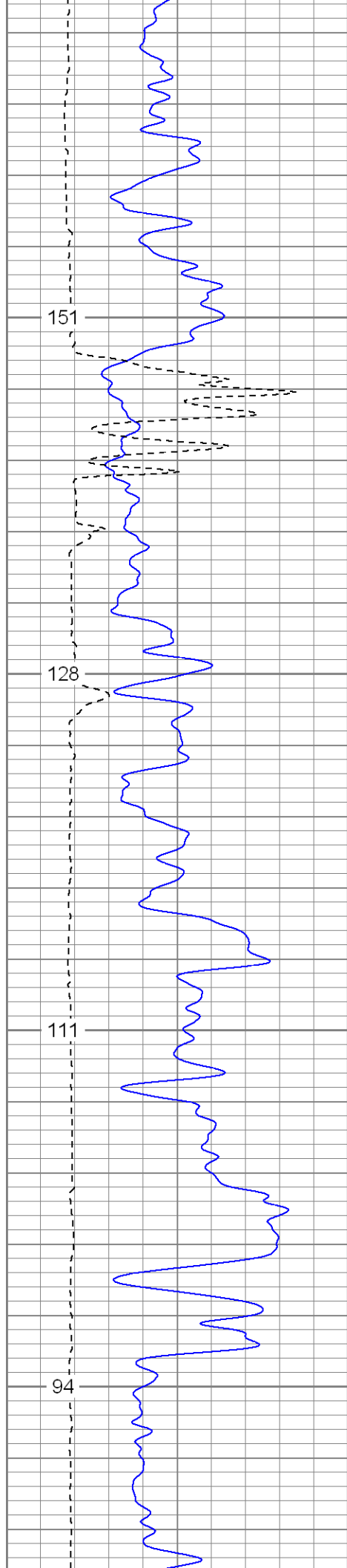


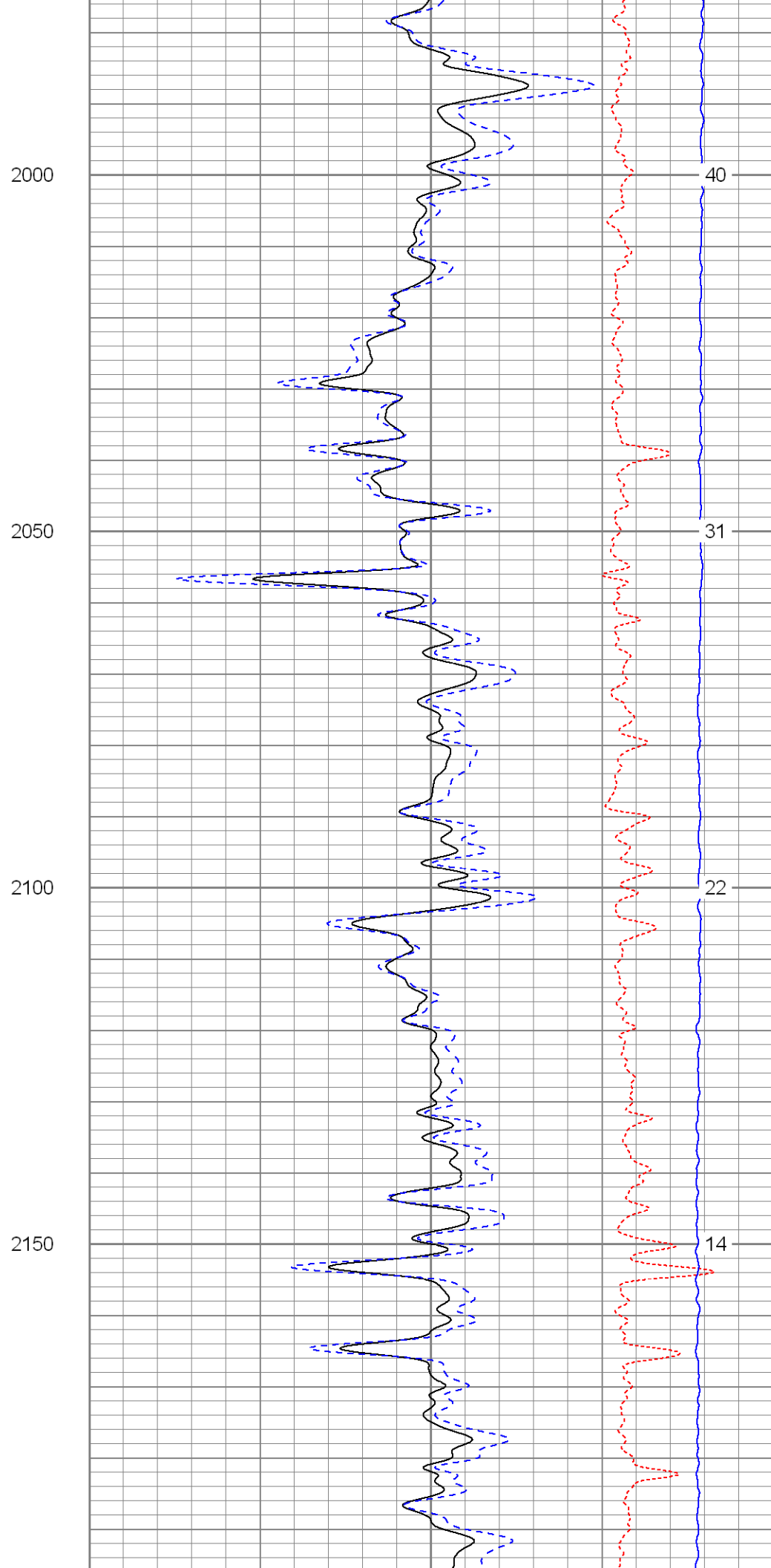
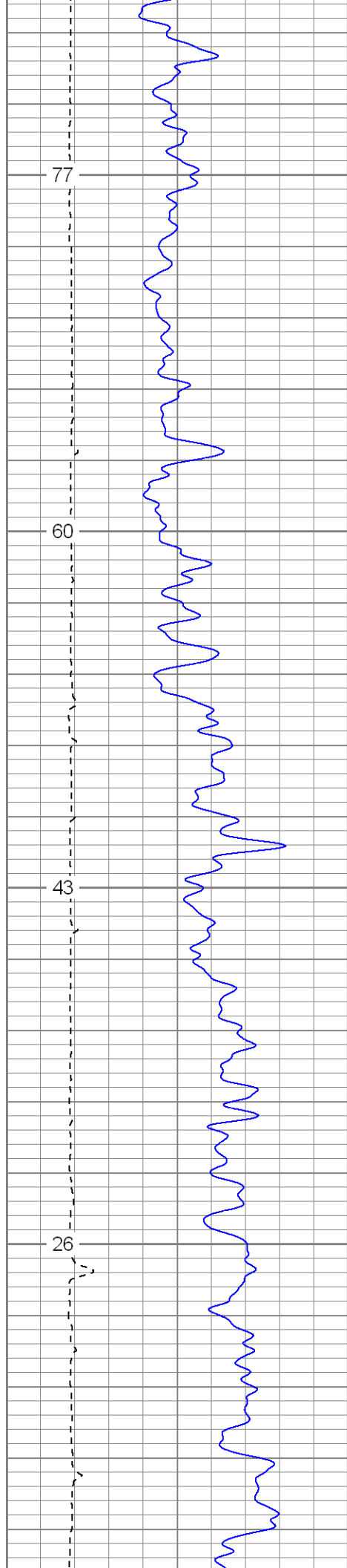


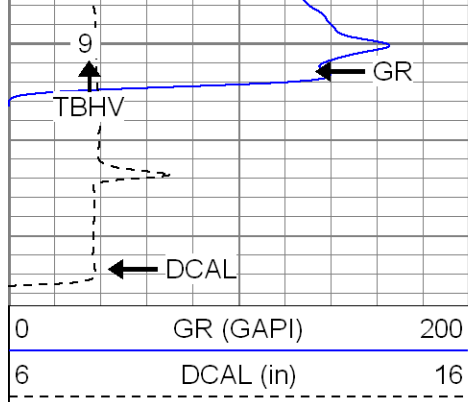




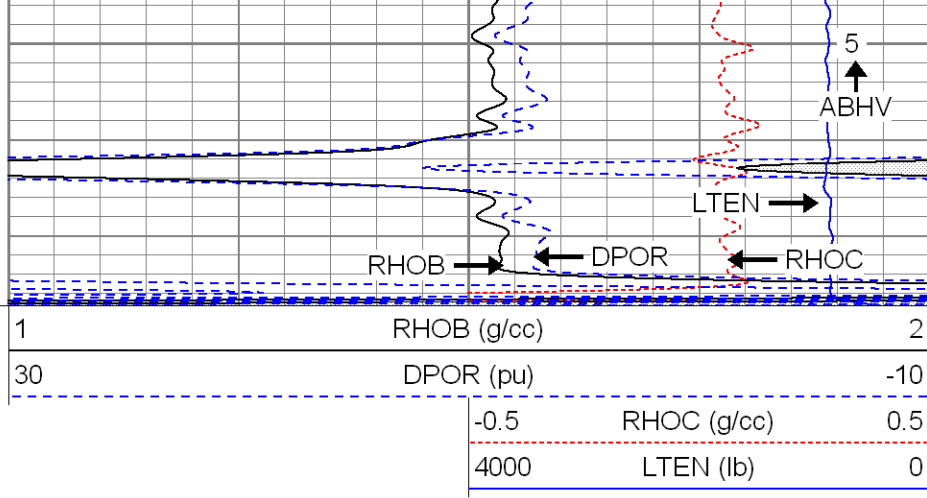








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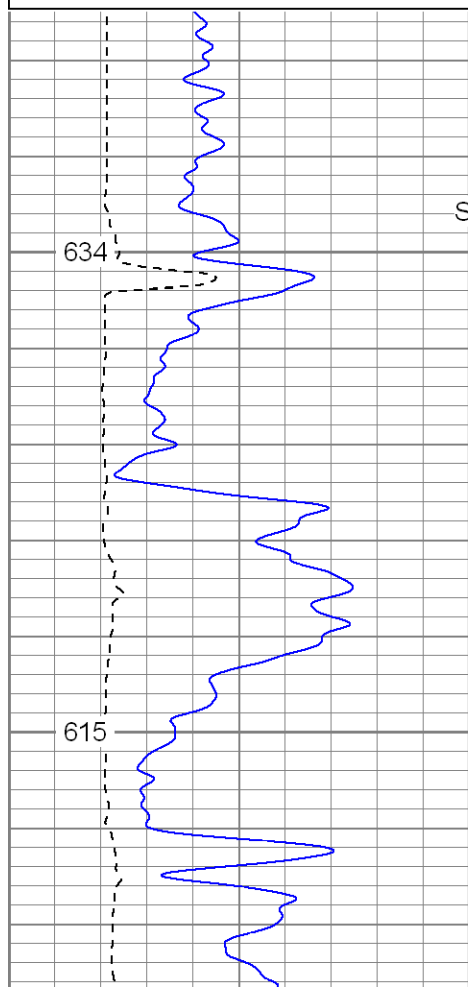
Black Lick, Pa.
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Main Pass

Database File: xtone2501.db
Dataset Pathname: pass6.1
Presentation Format: cdnl
Dataset Creation: Thu Aug 09 12:08:02 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

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

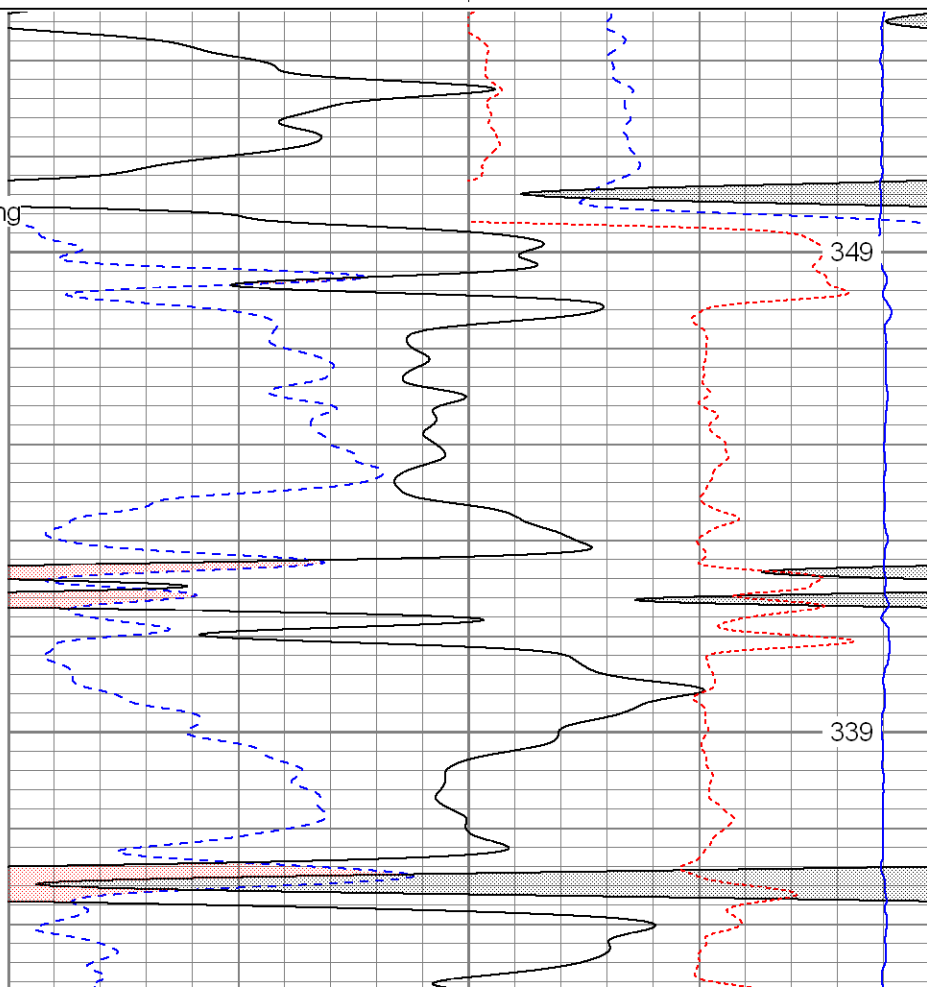
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

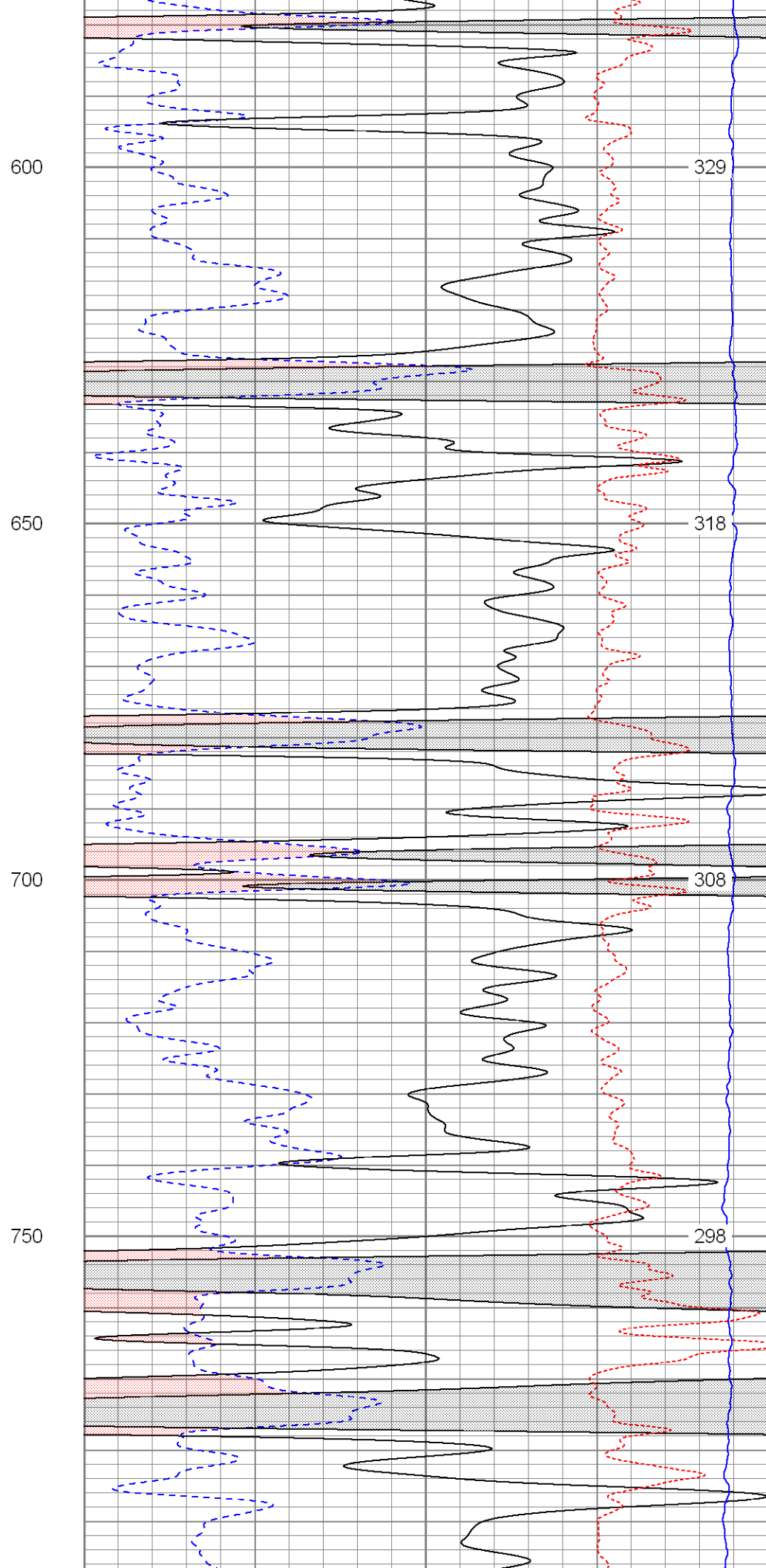
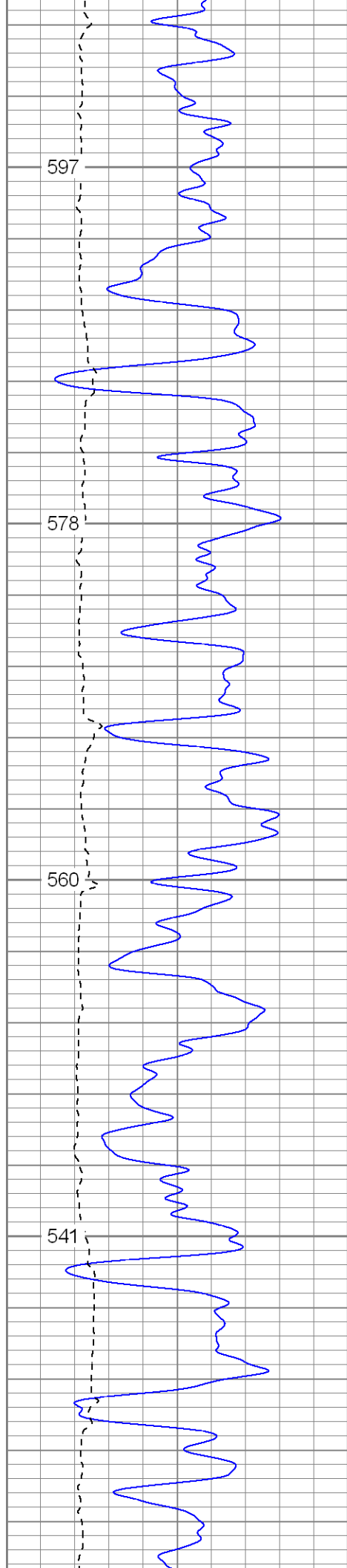


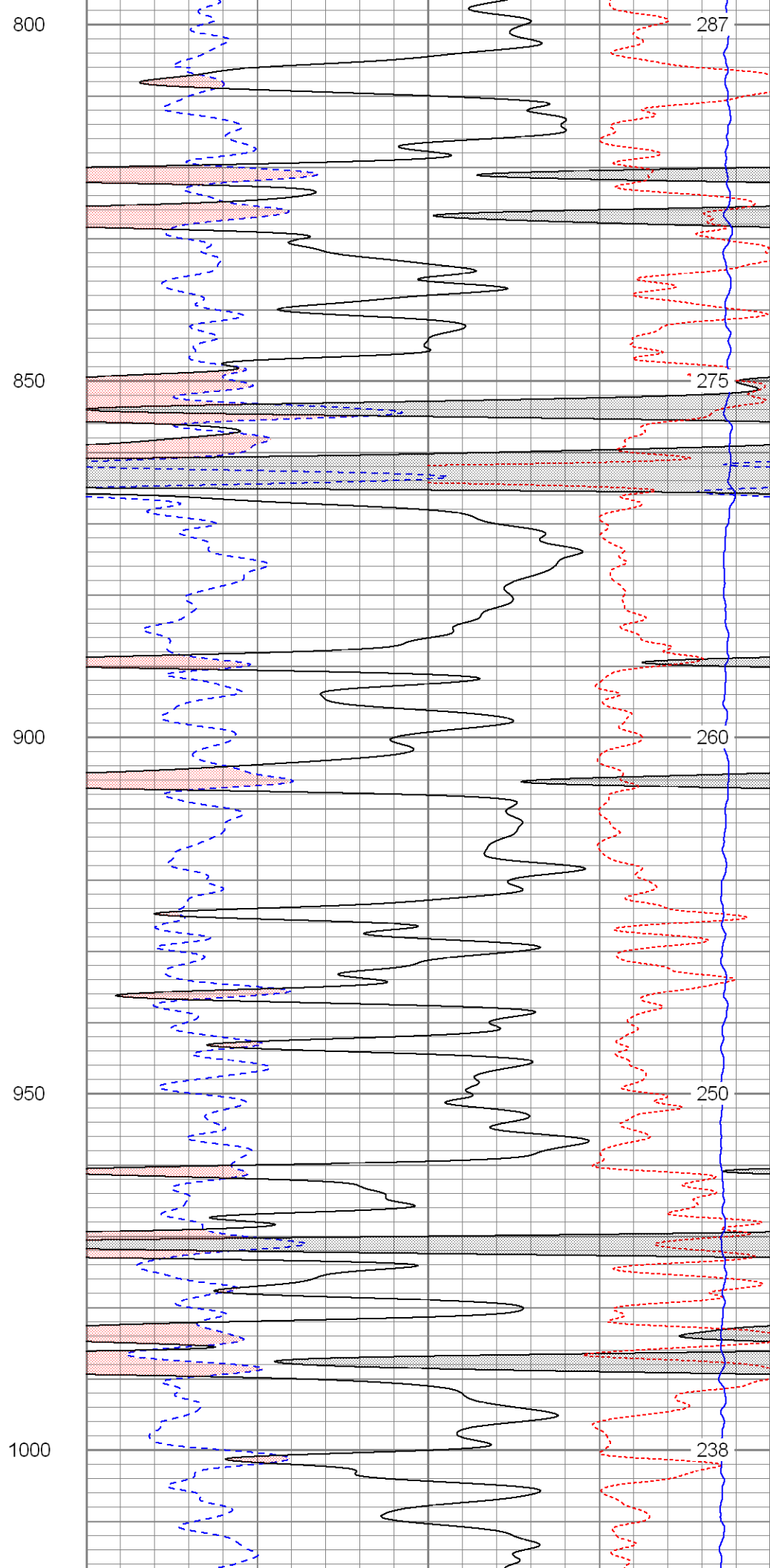
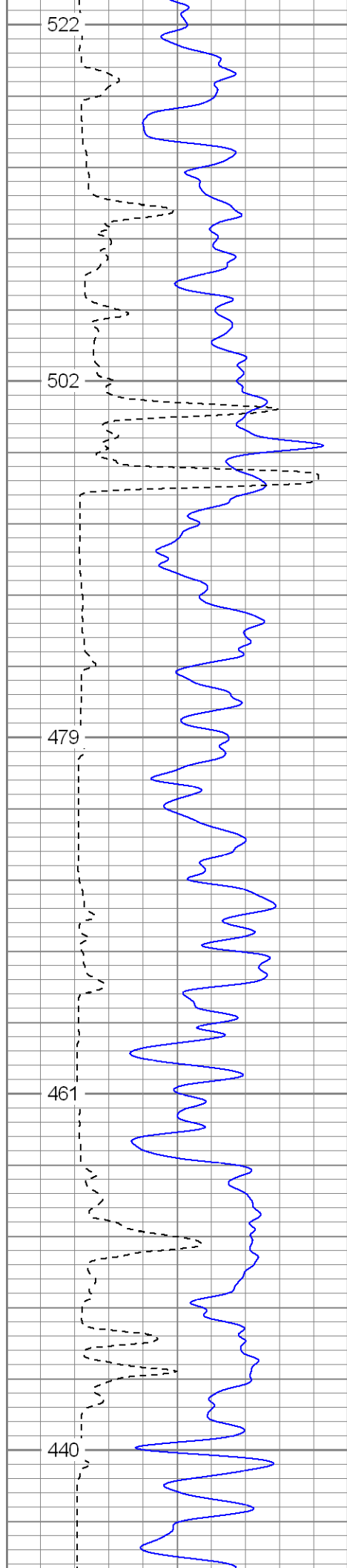
Surface Casing

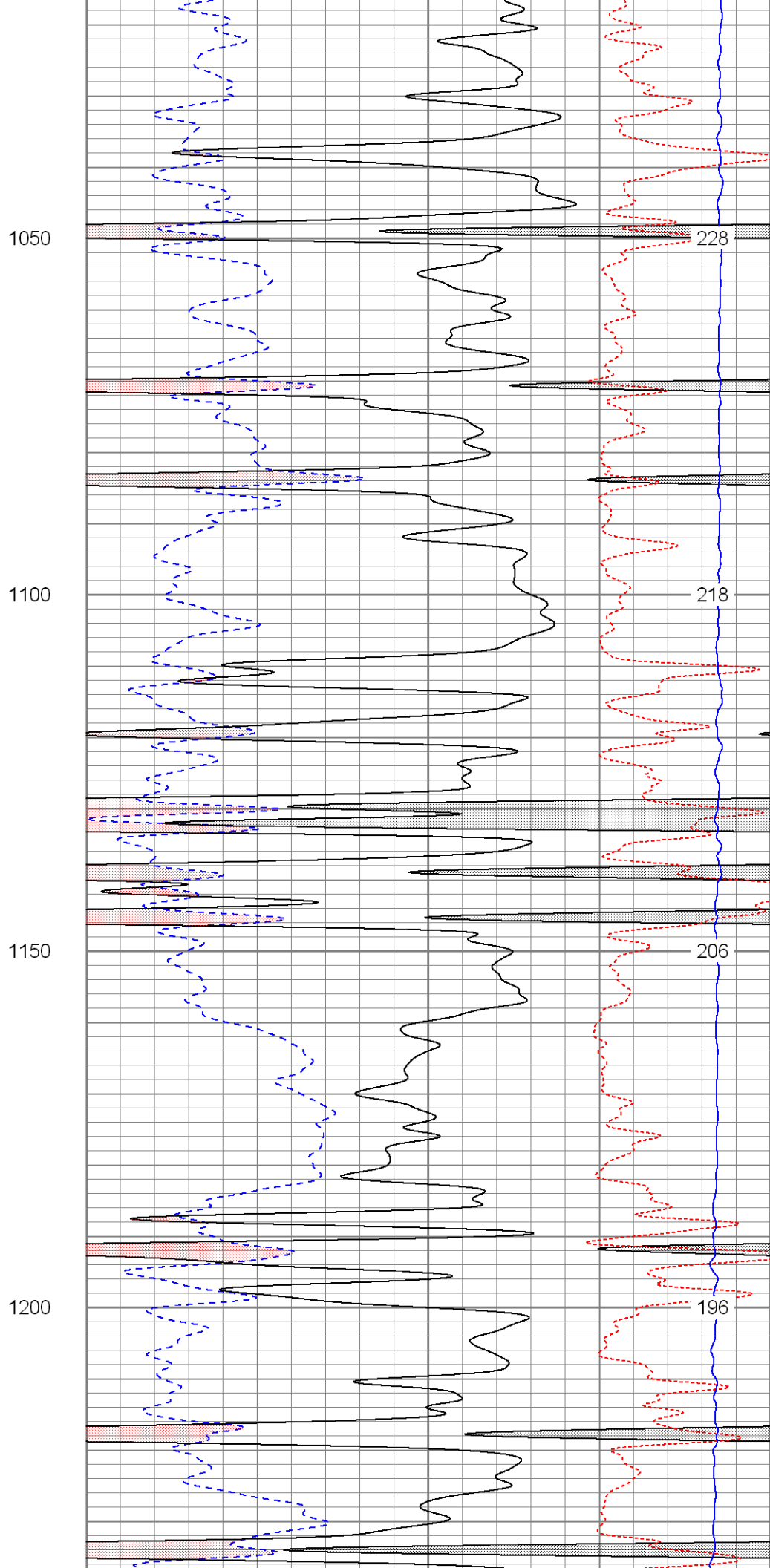
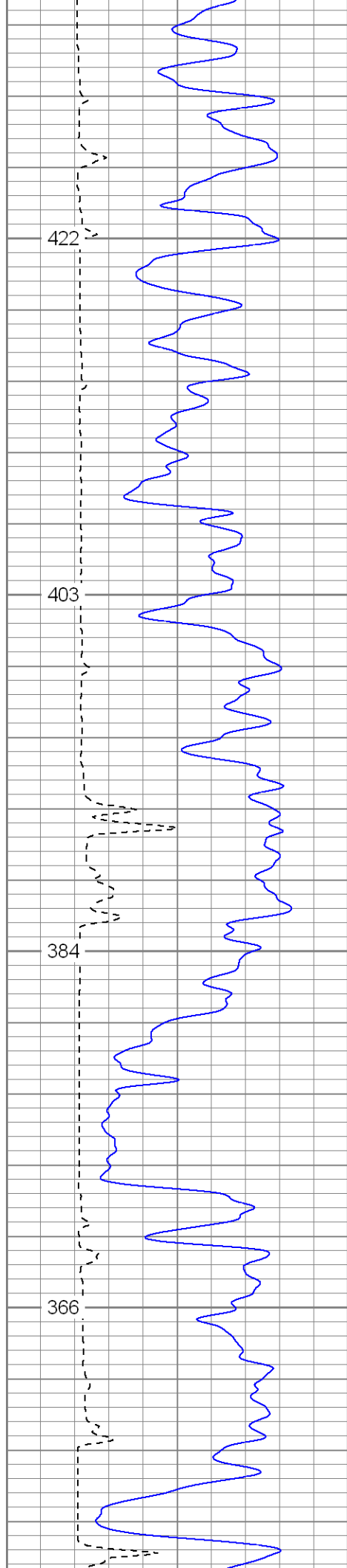
500

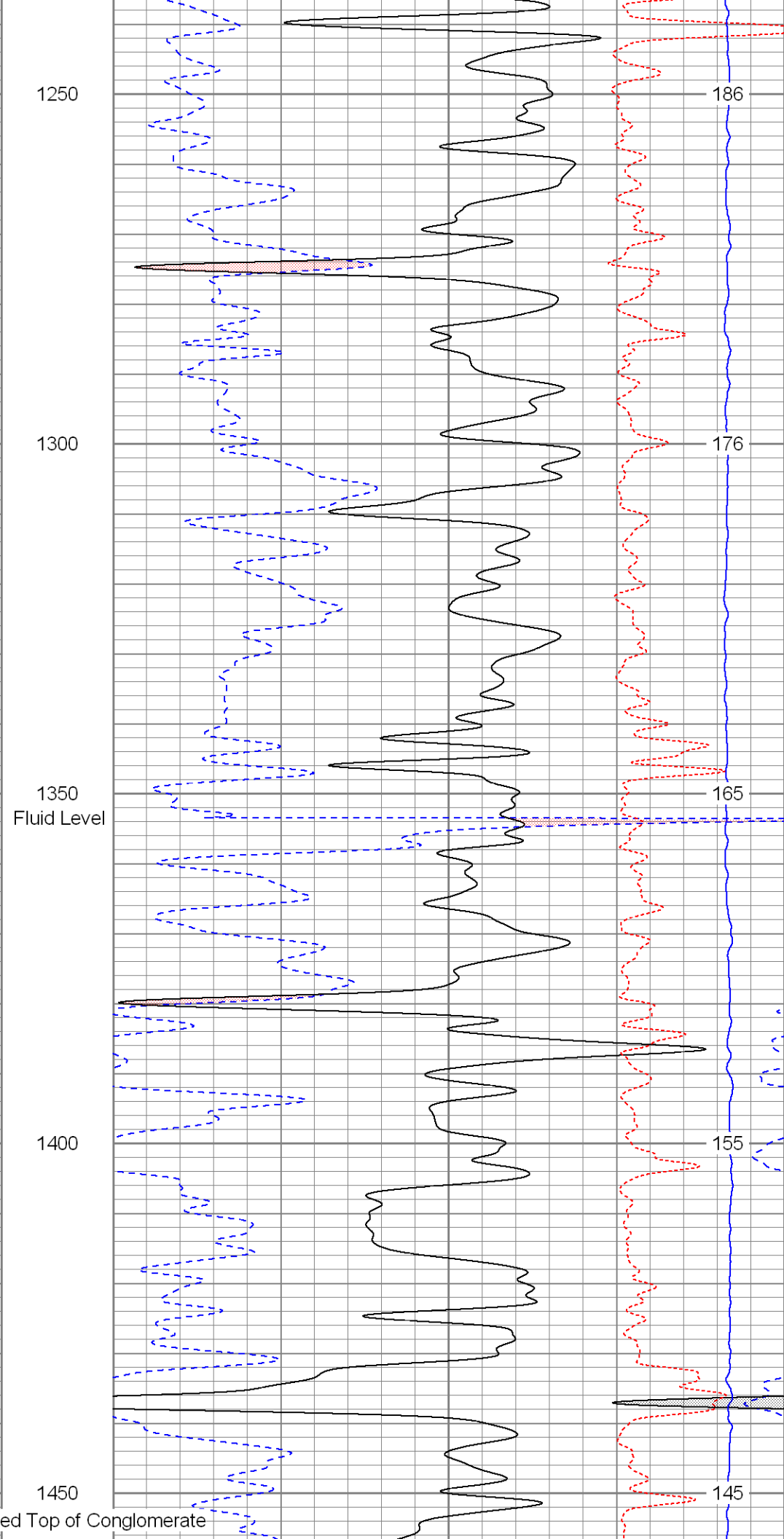
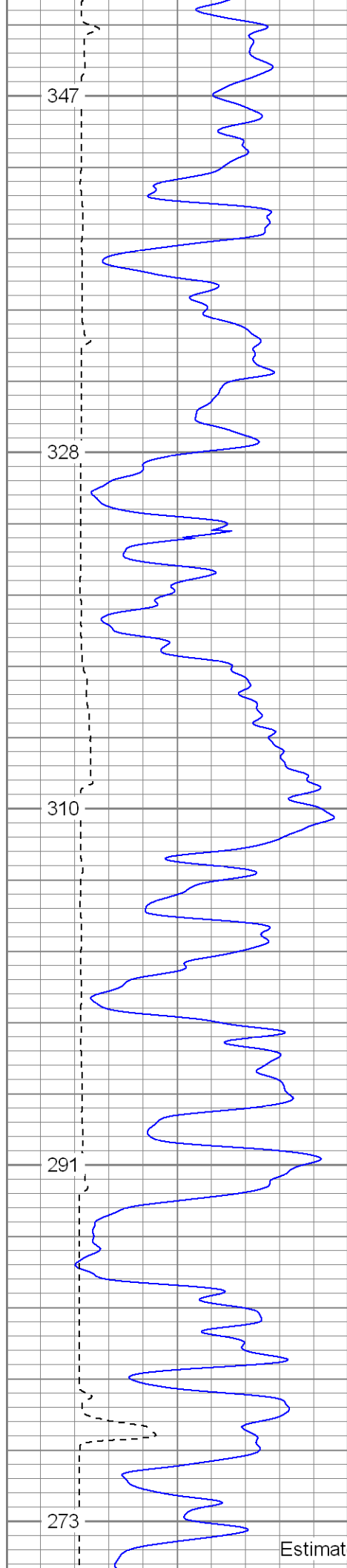
550



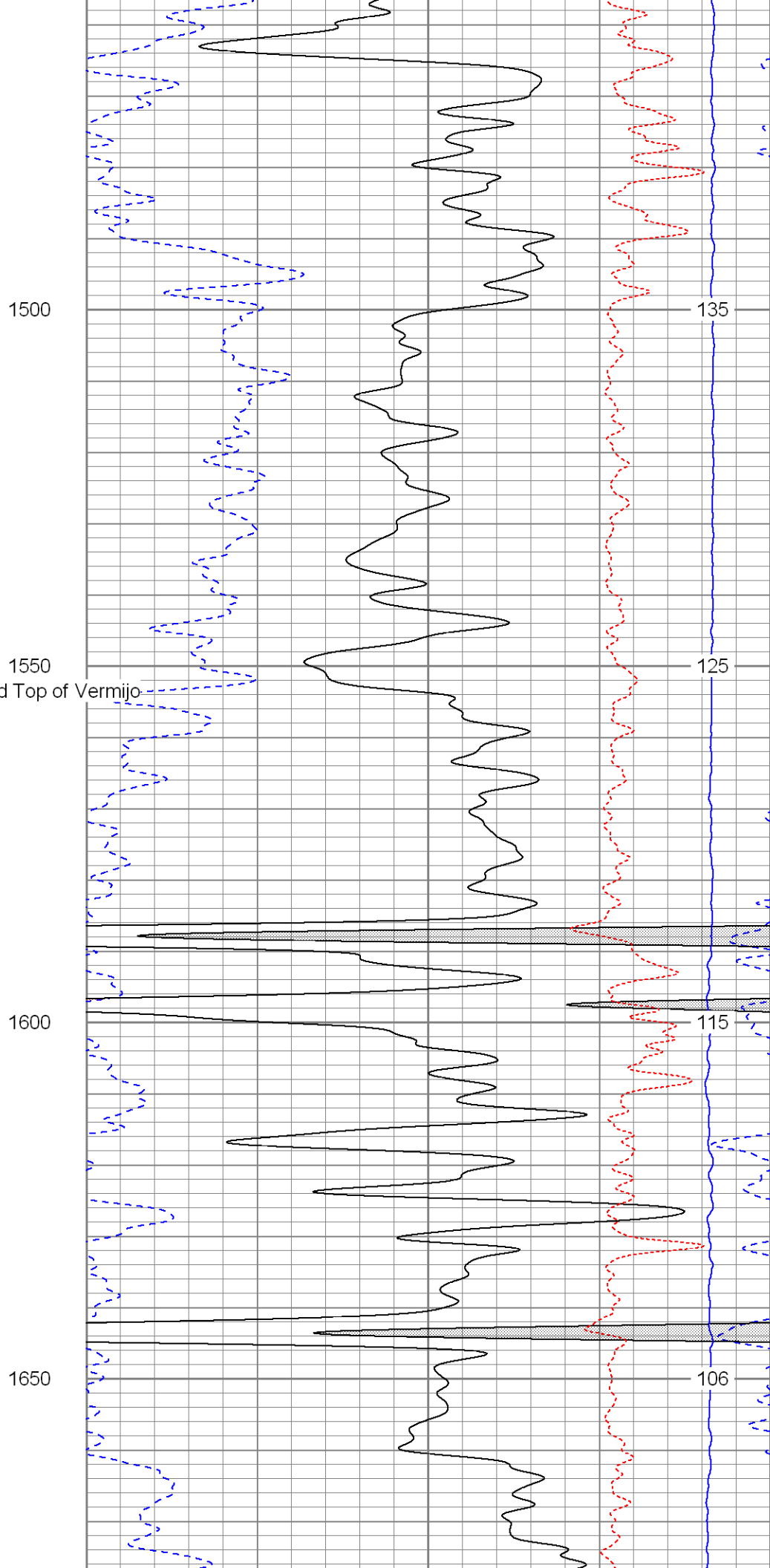
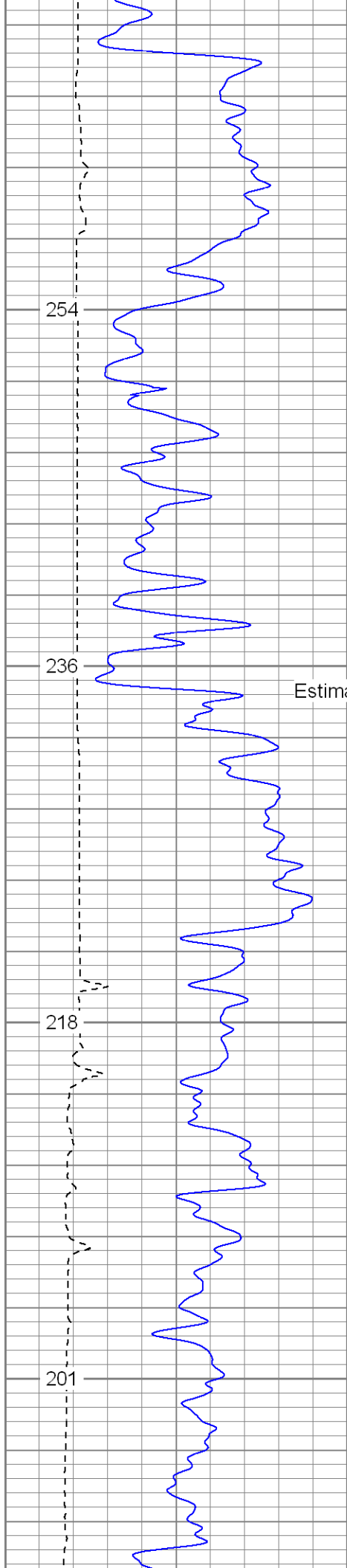


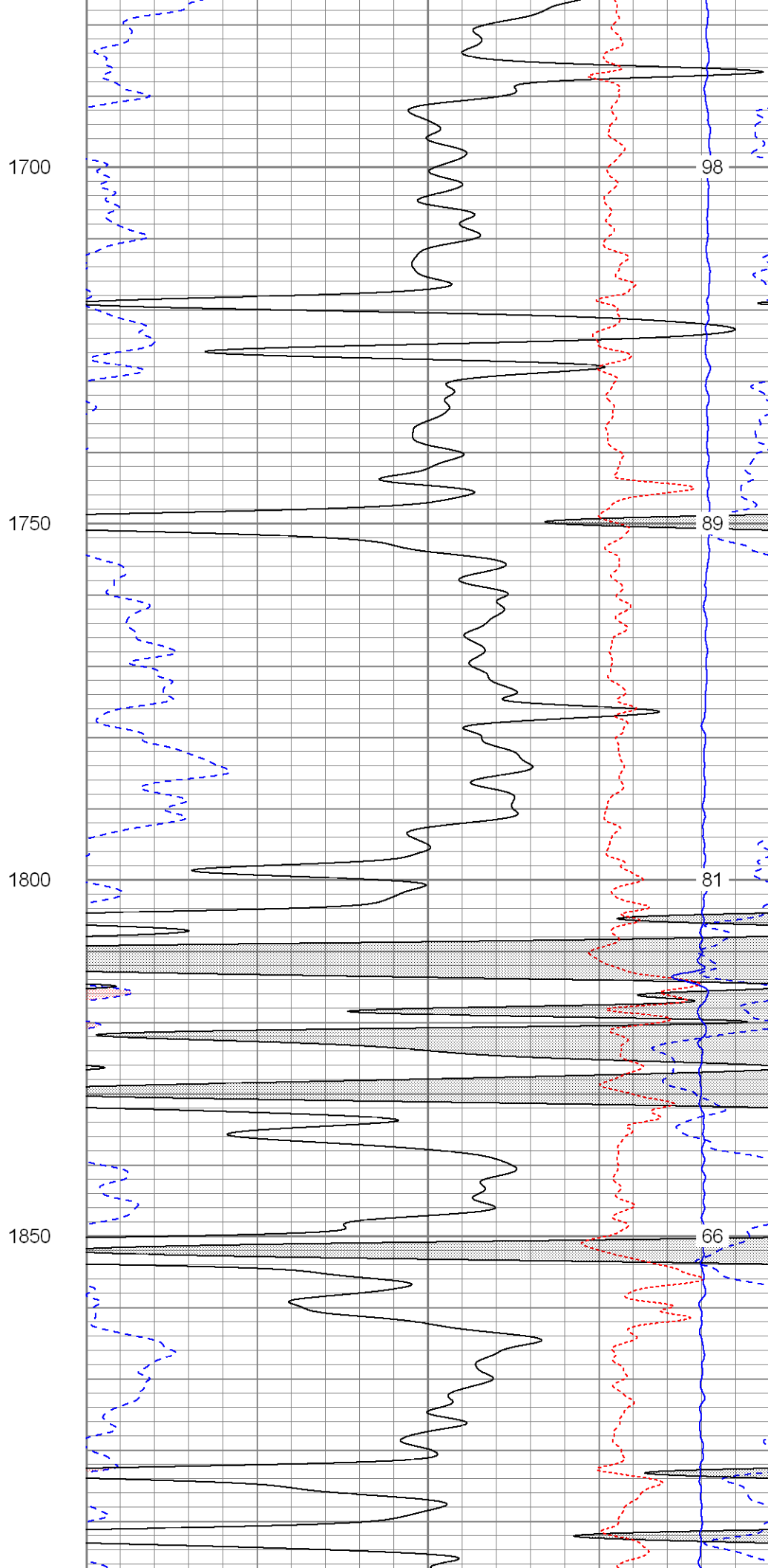
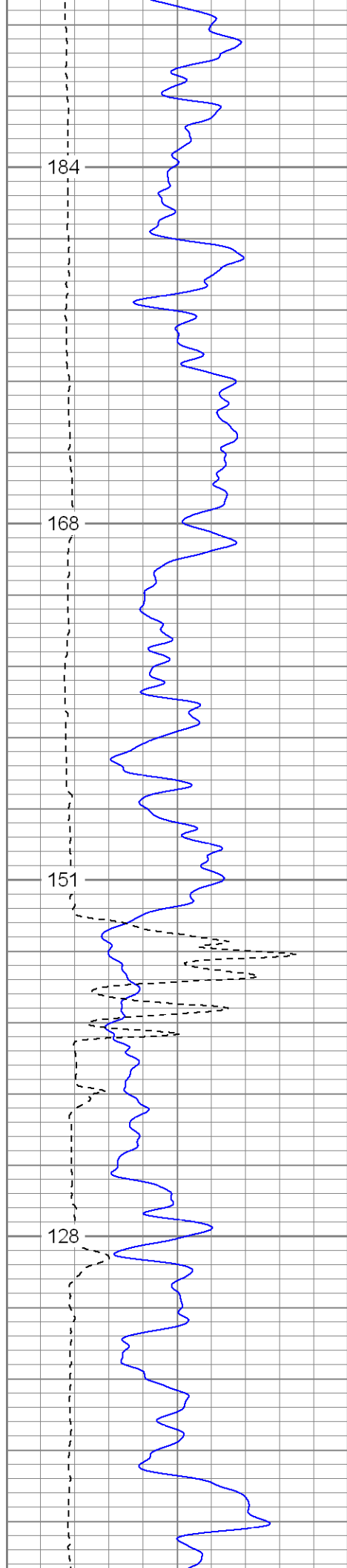


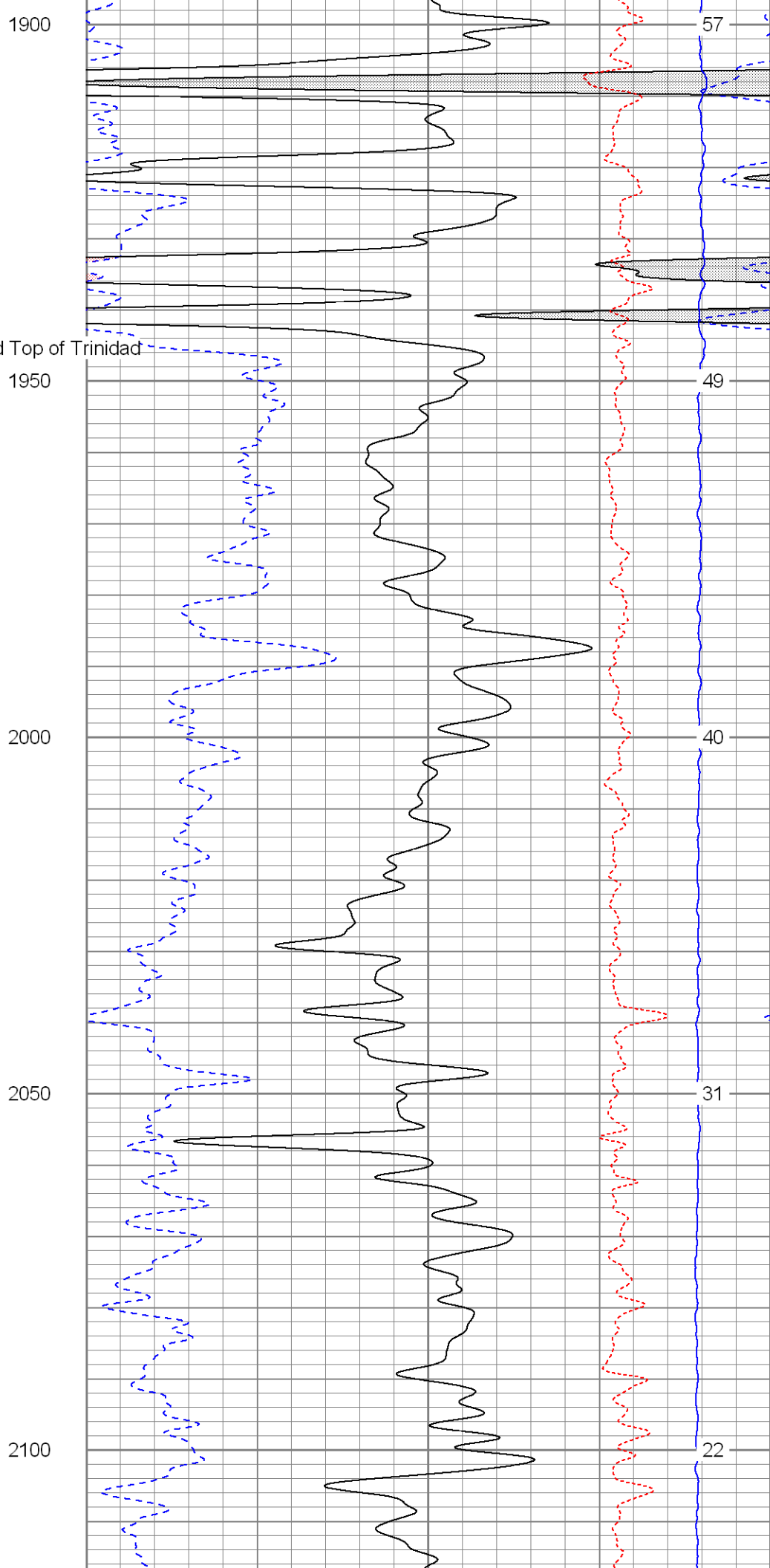
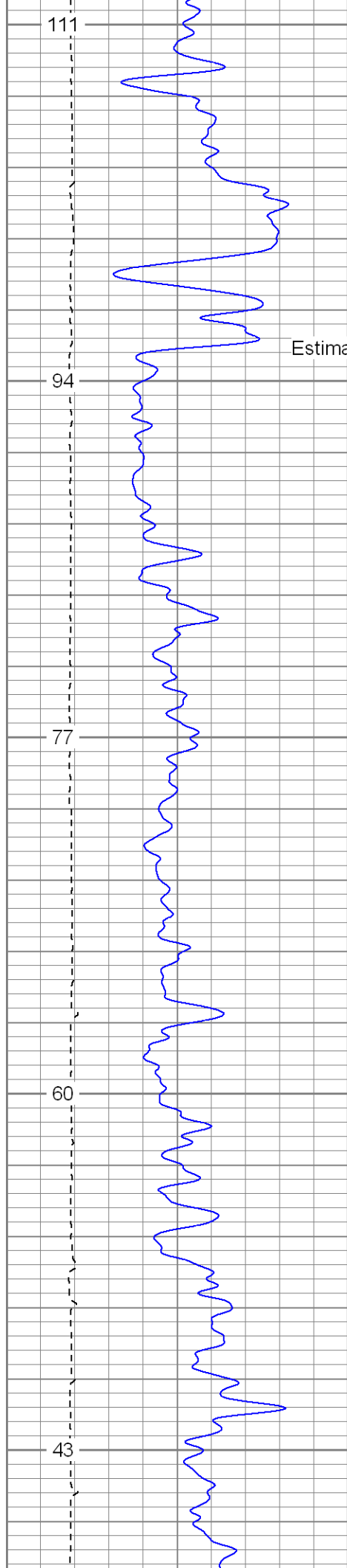


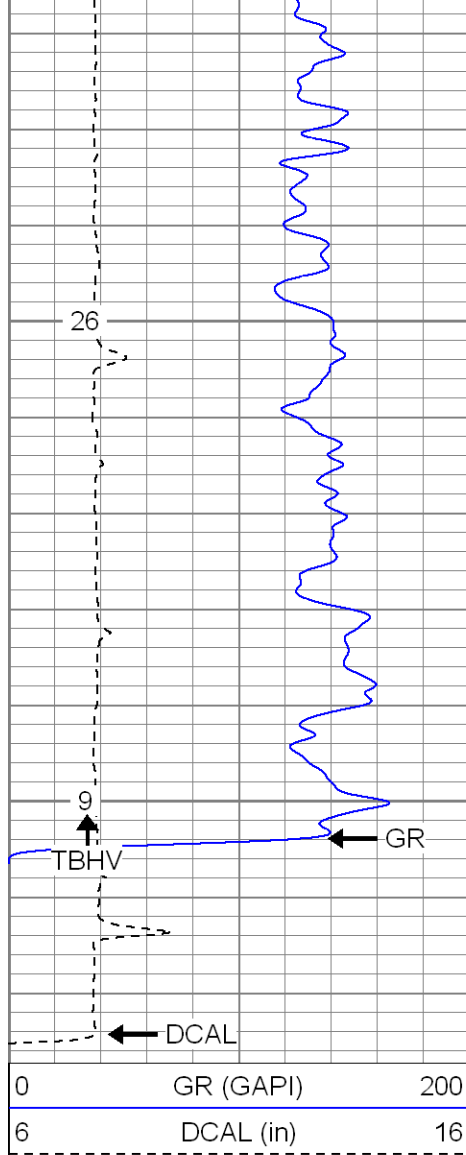


Estimated Top of Conglomerate



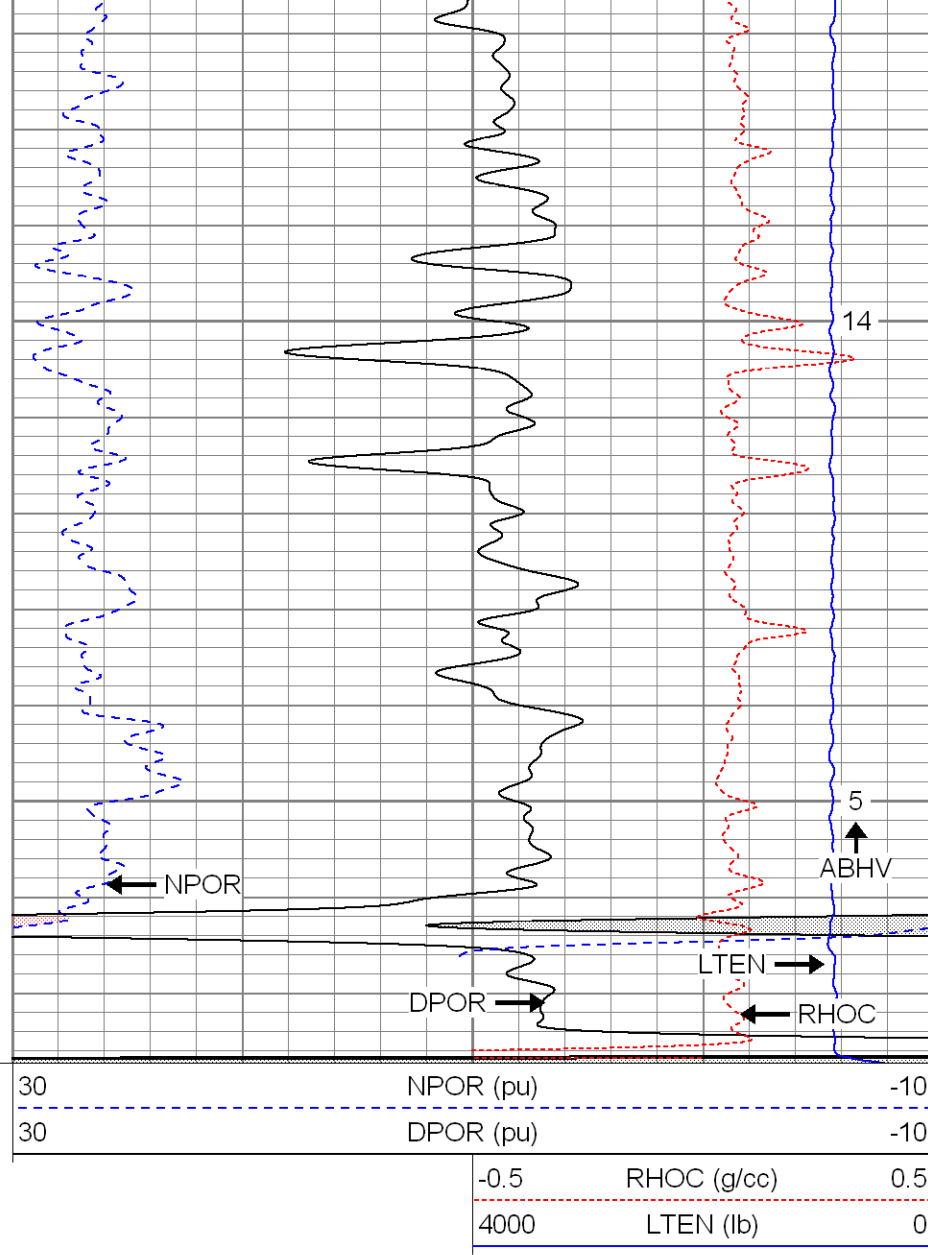






2150

2200



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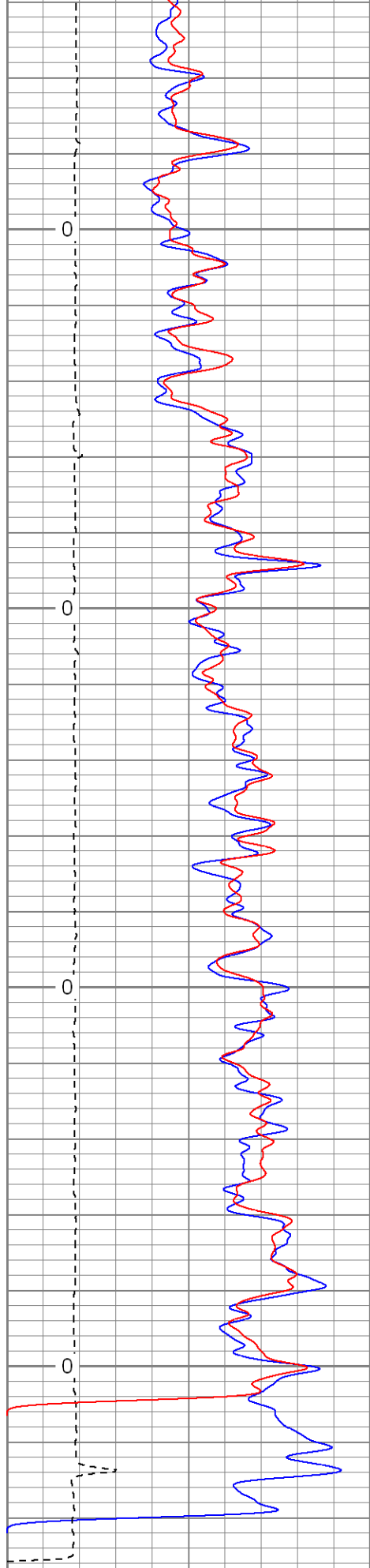
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Repeat Section

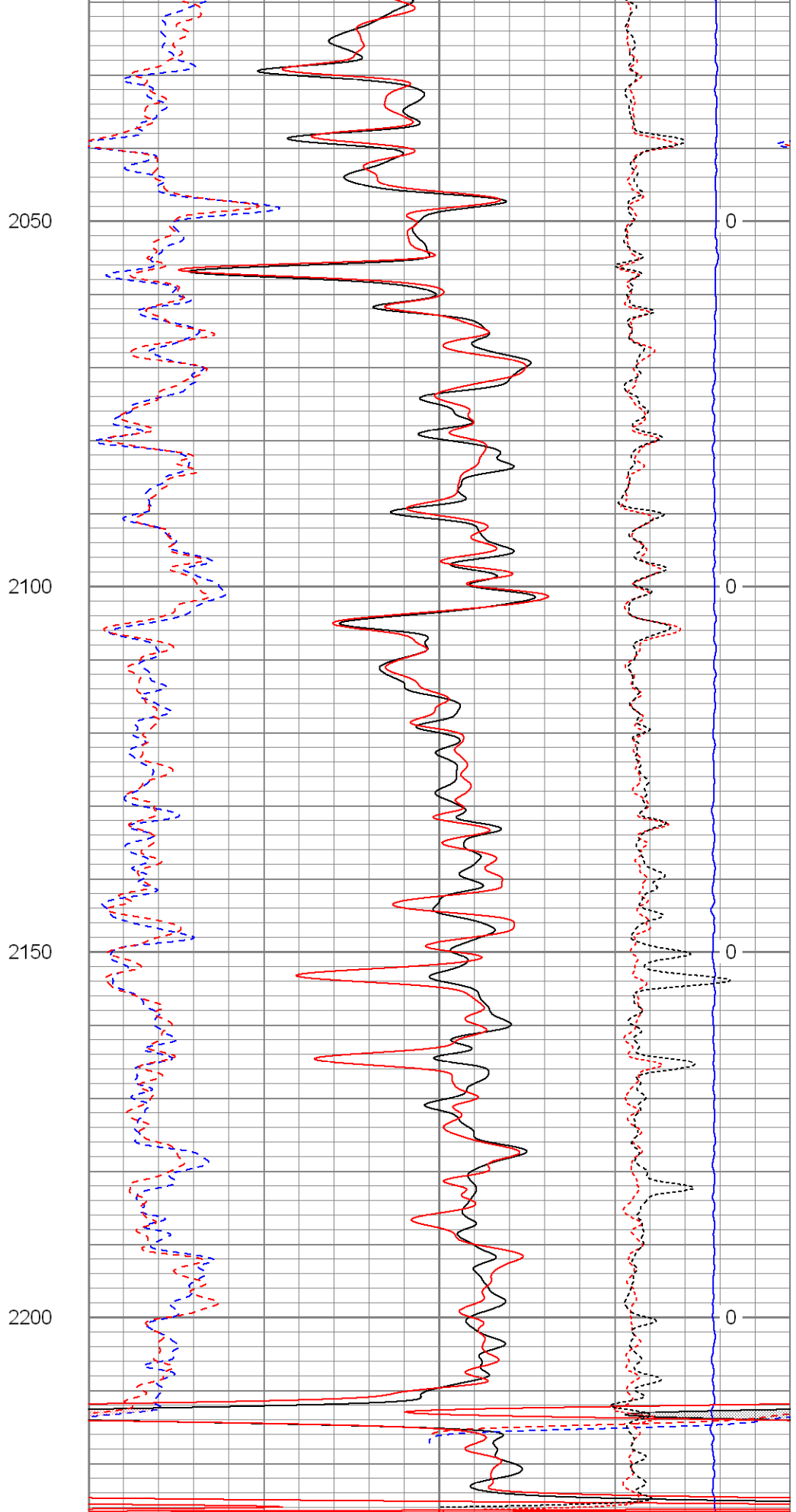
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 Presentation Format: cdnl
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 Charted by: Depth in Feet scaled 1:240

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

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



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

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



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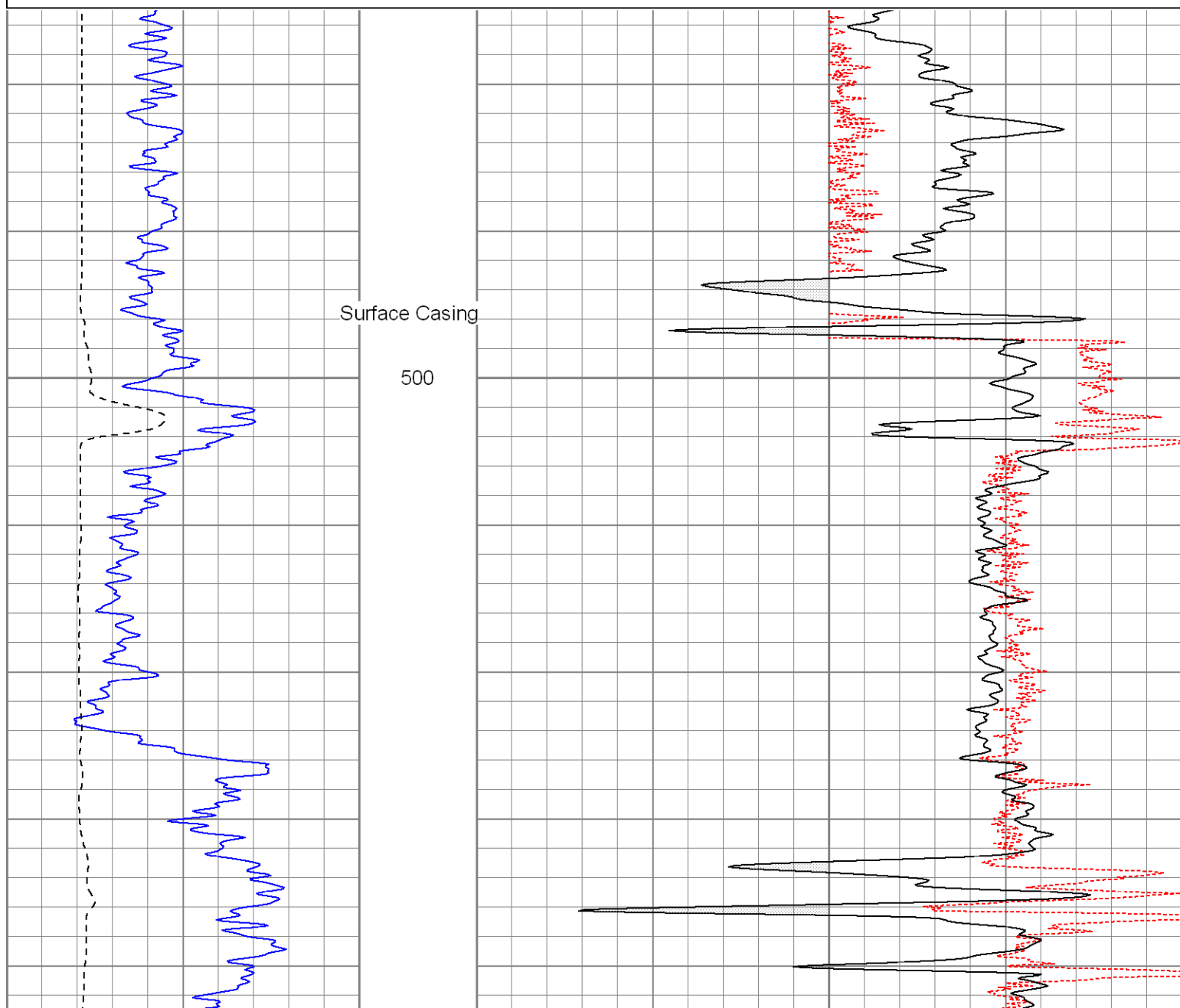
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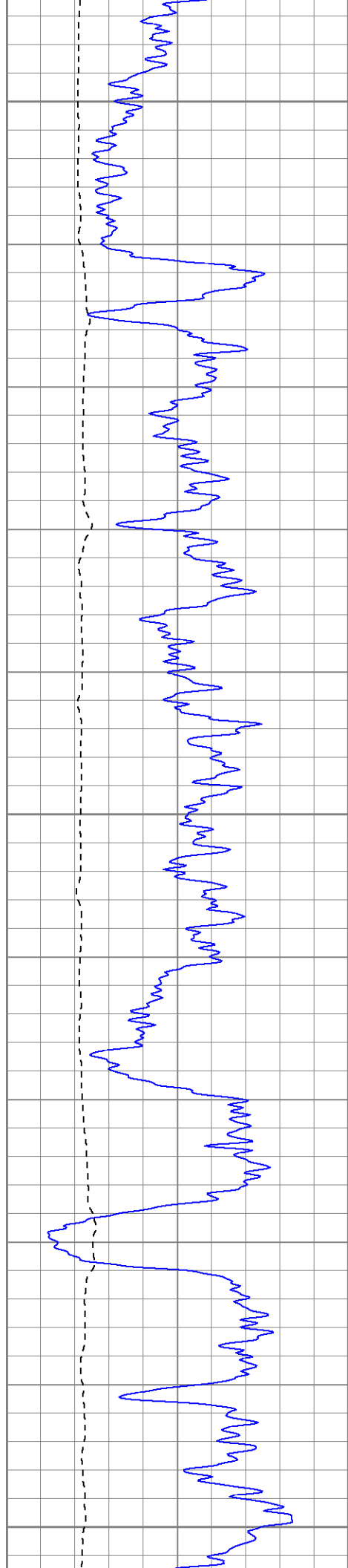
High Resolution Pass

Database File: xtone2501.db
Dataset Pathname: pass6.2
Presentation Format: cdlhr
Dataset Creation: Thu Aug 09 14:34:15 2007 by Calc Open-Cased 061129
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

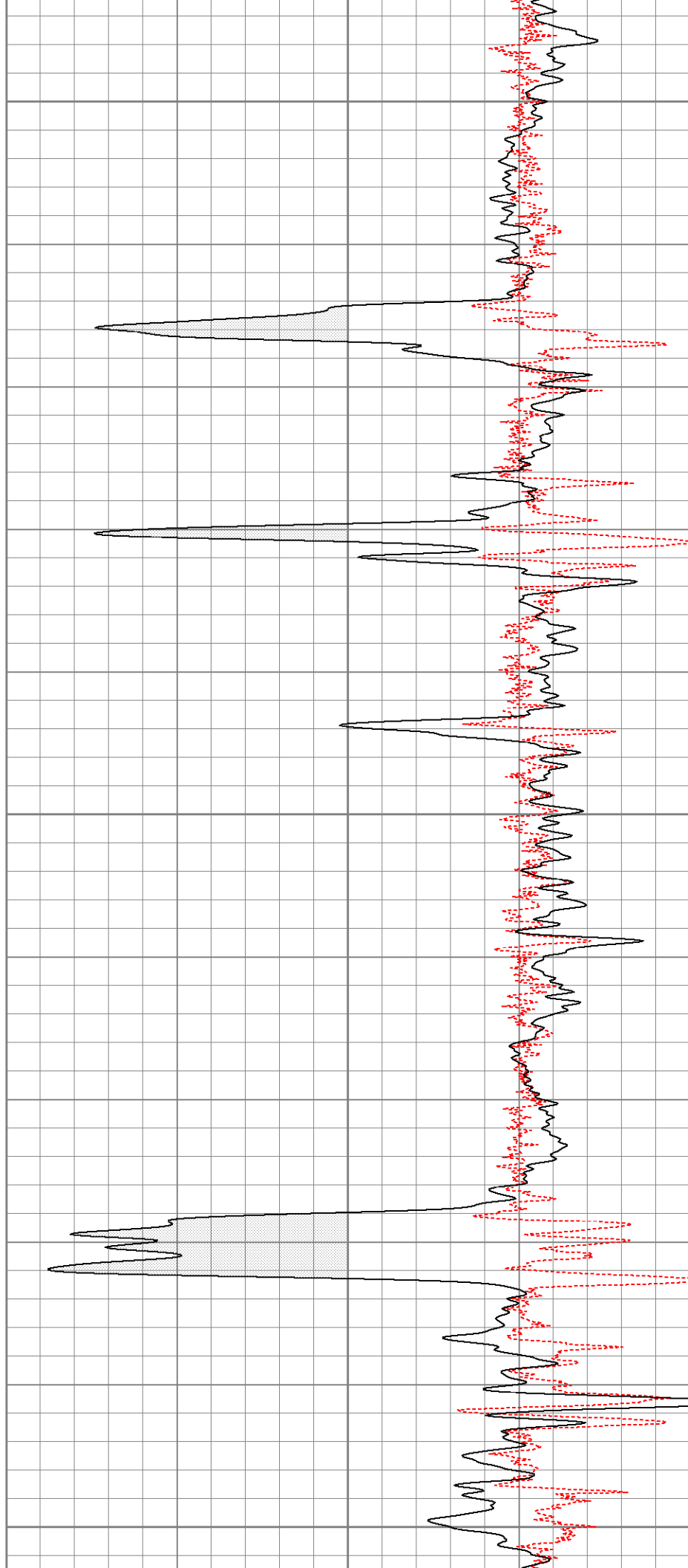


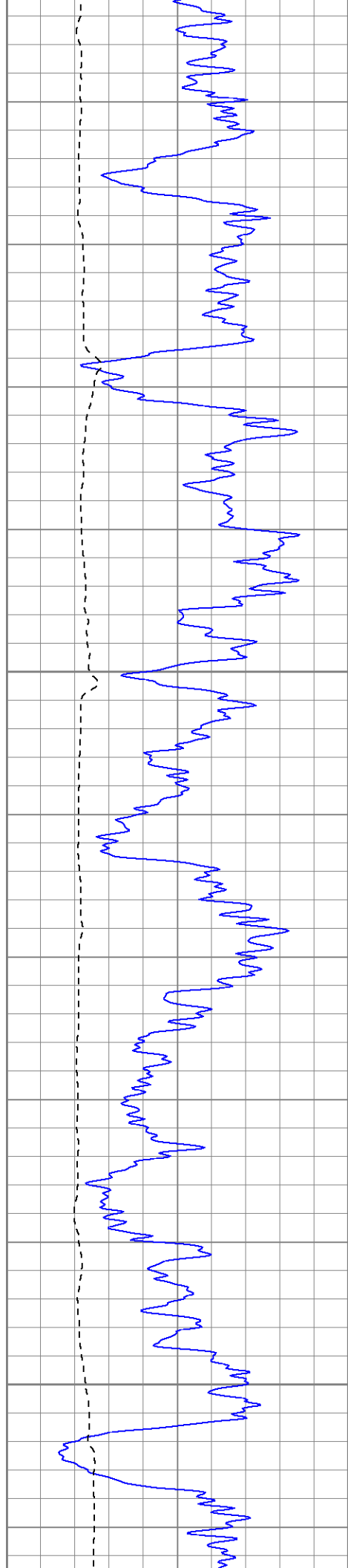


550

600

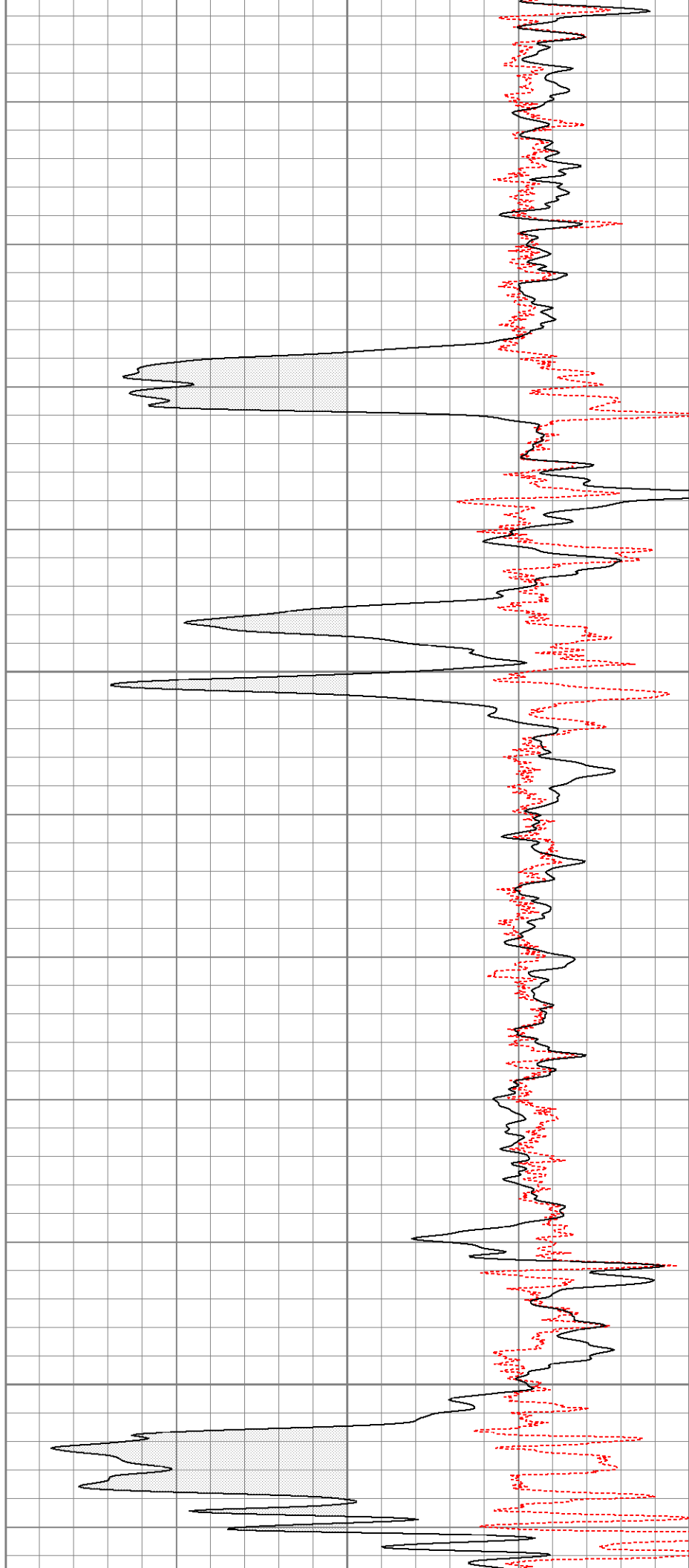
650

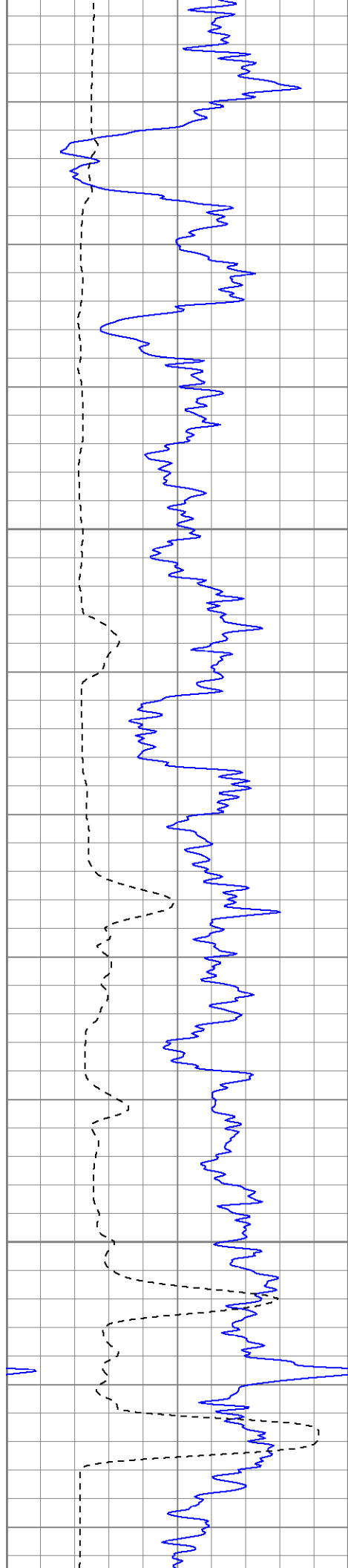




700

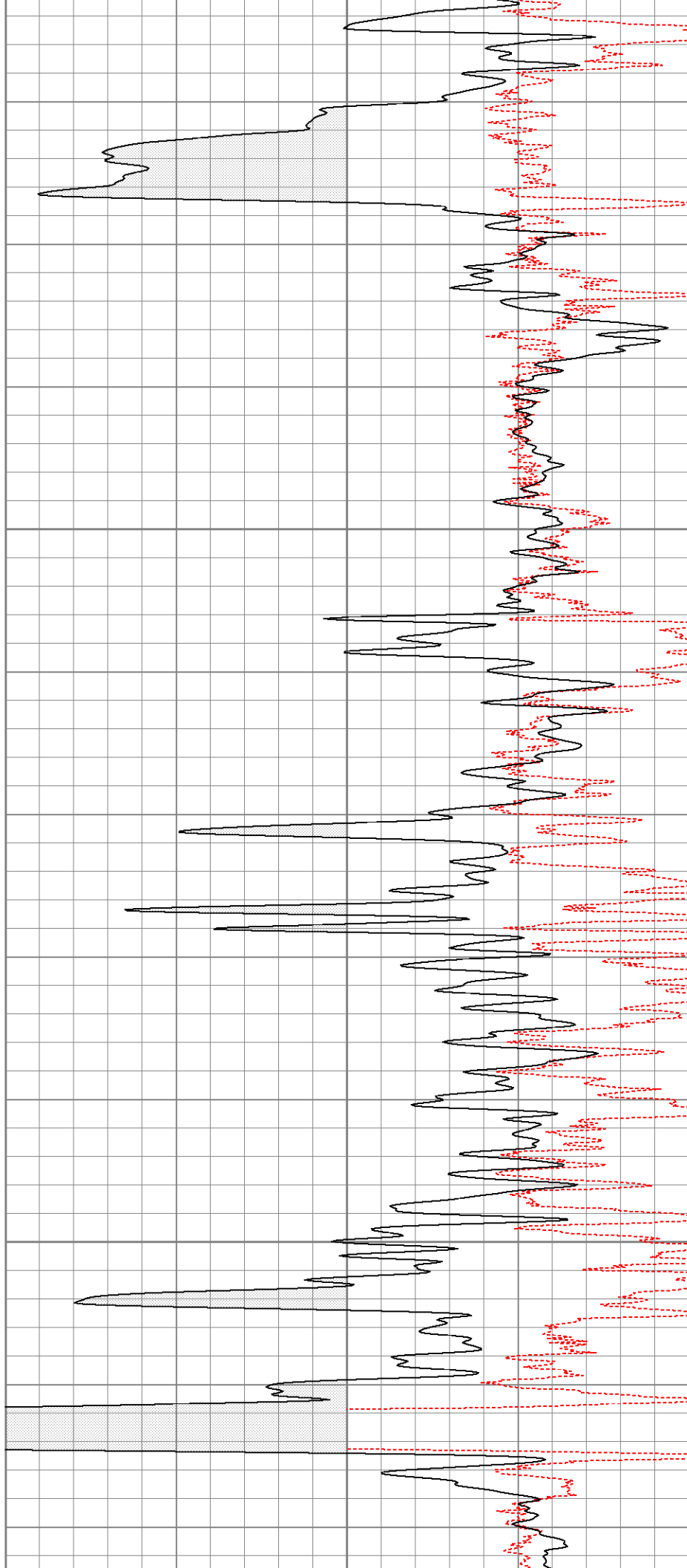
750





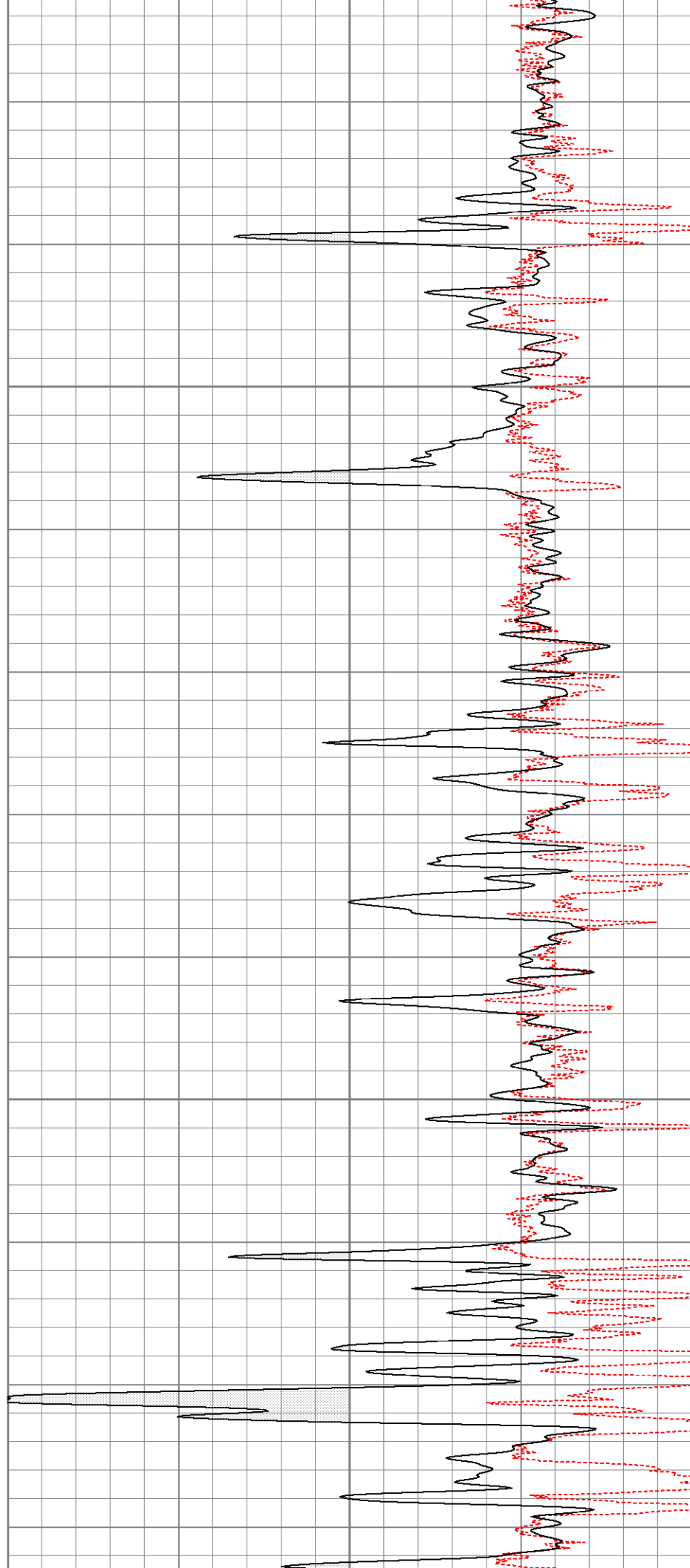
800

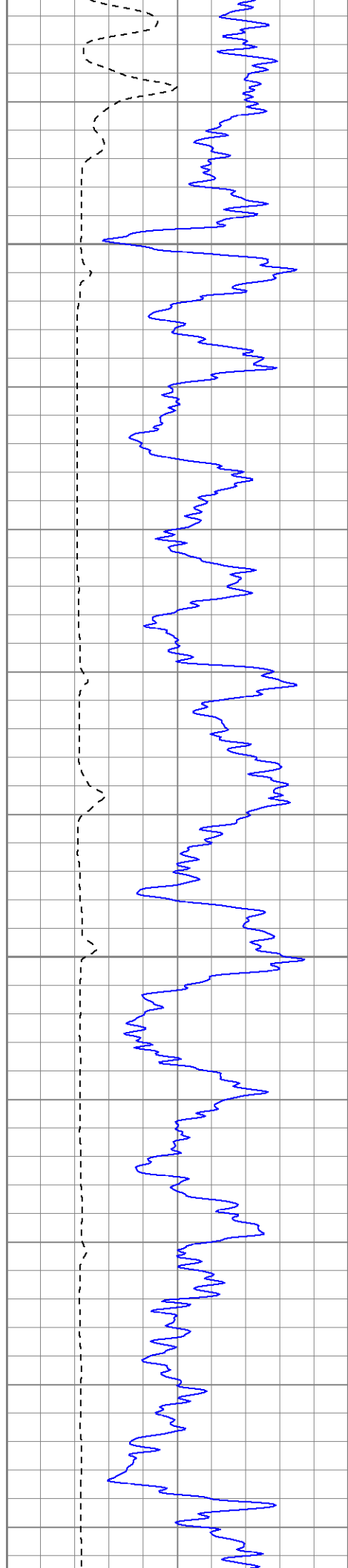
850



900

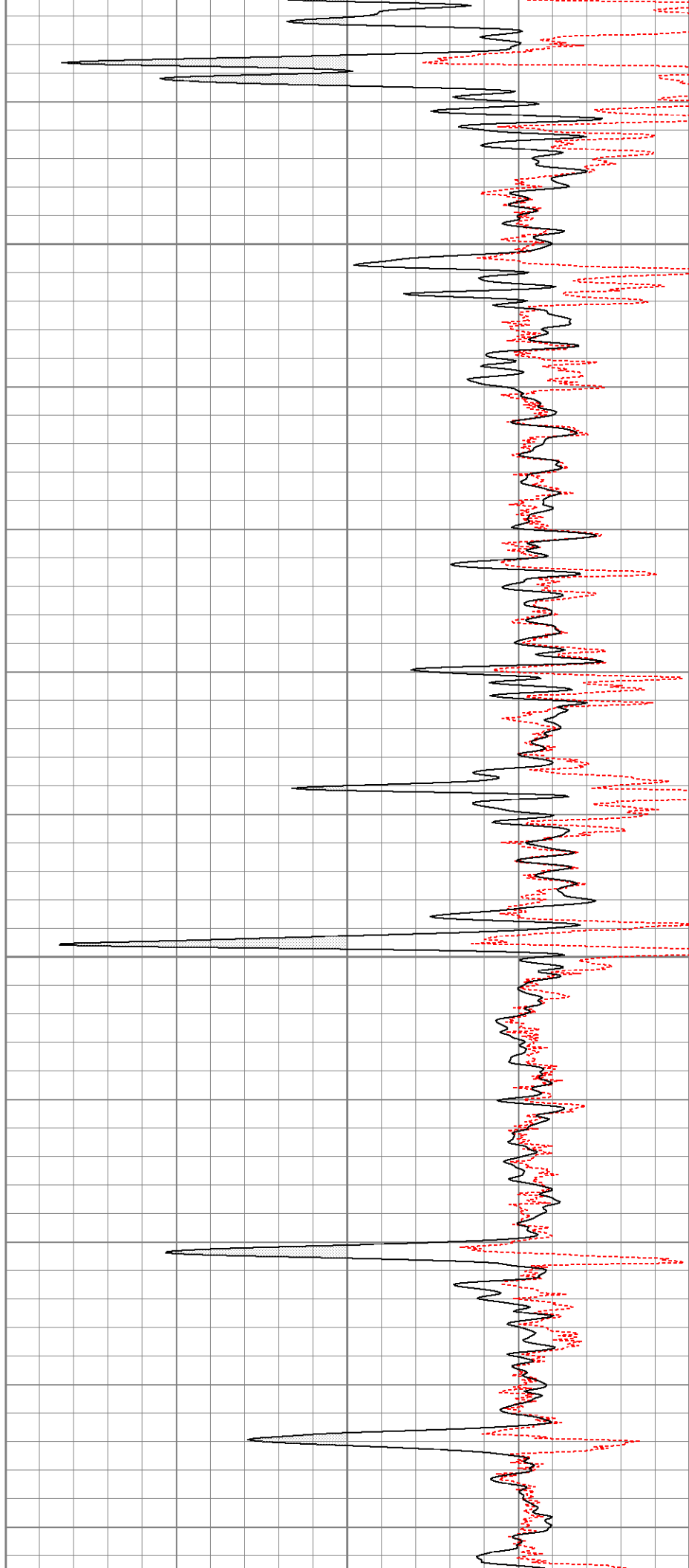
950

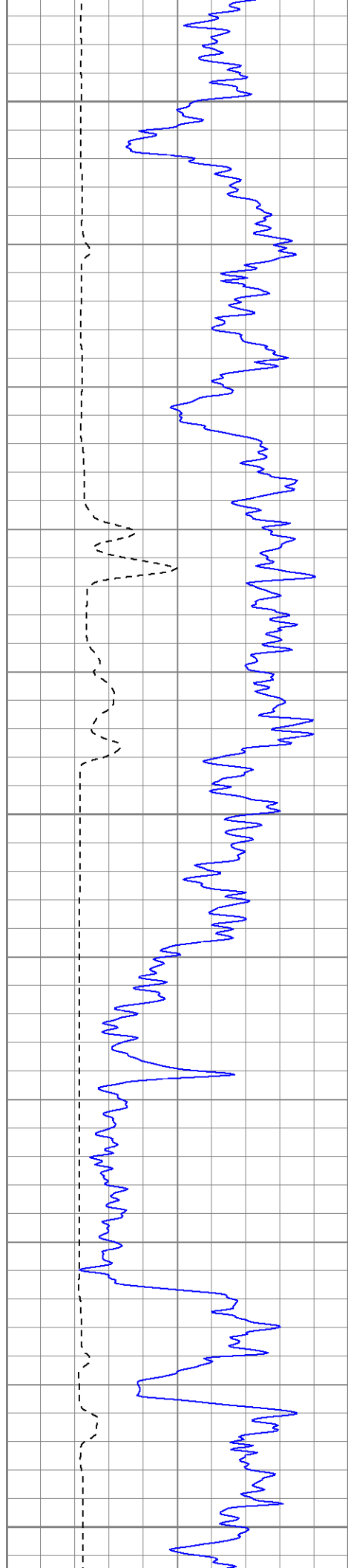




1000

1050

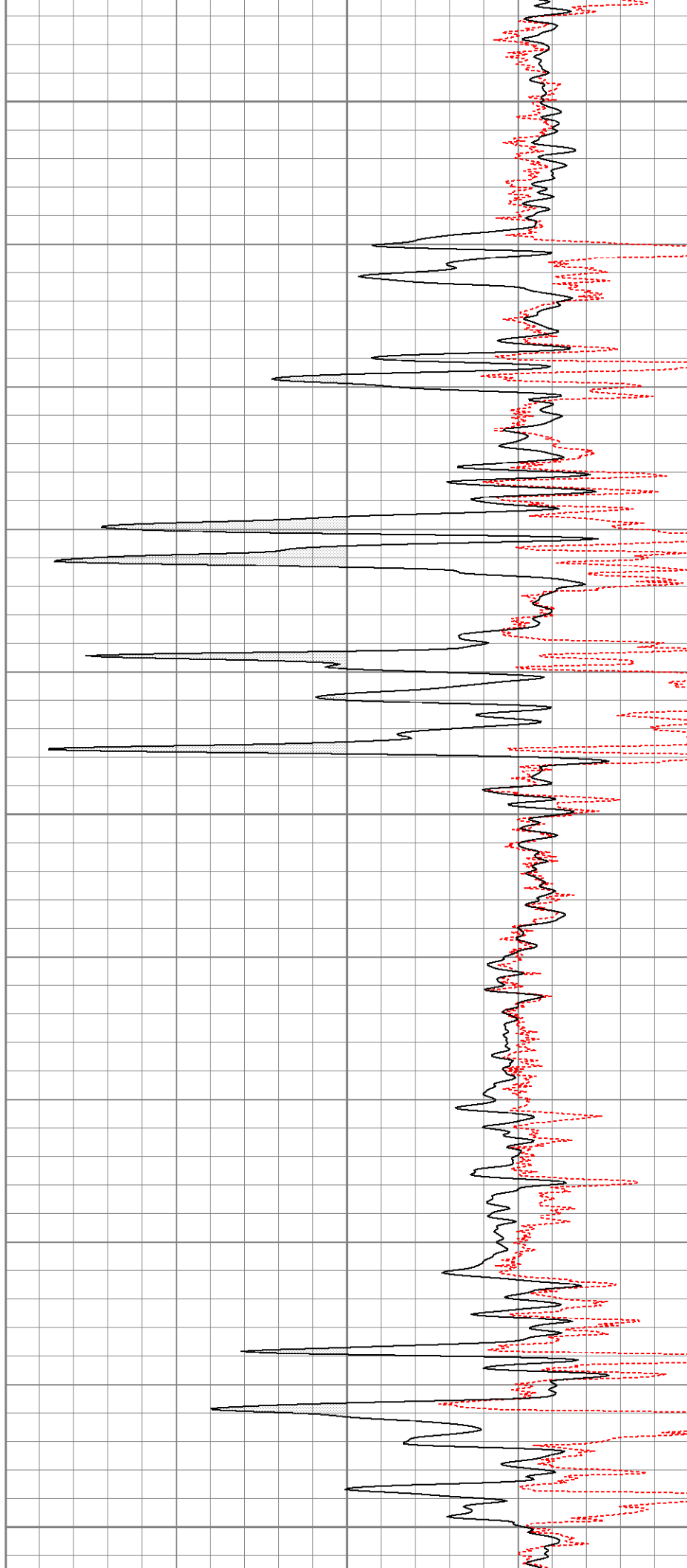


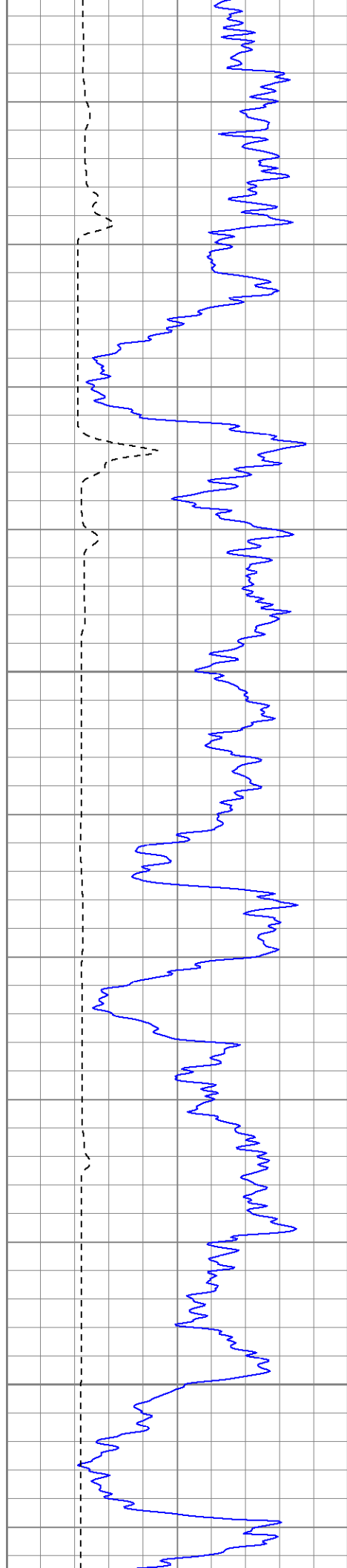


1100

1150

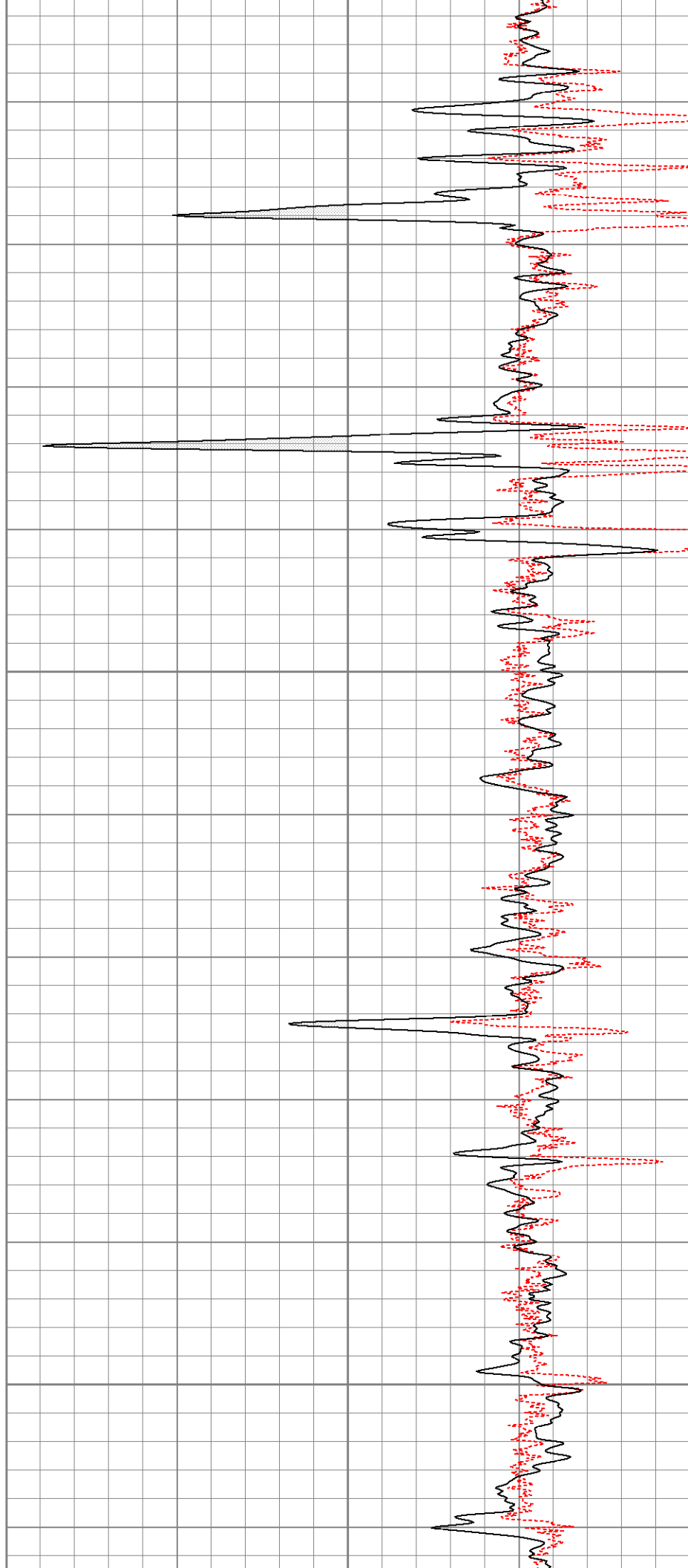
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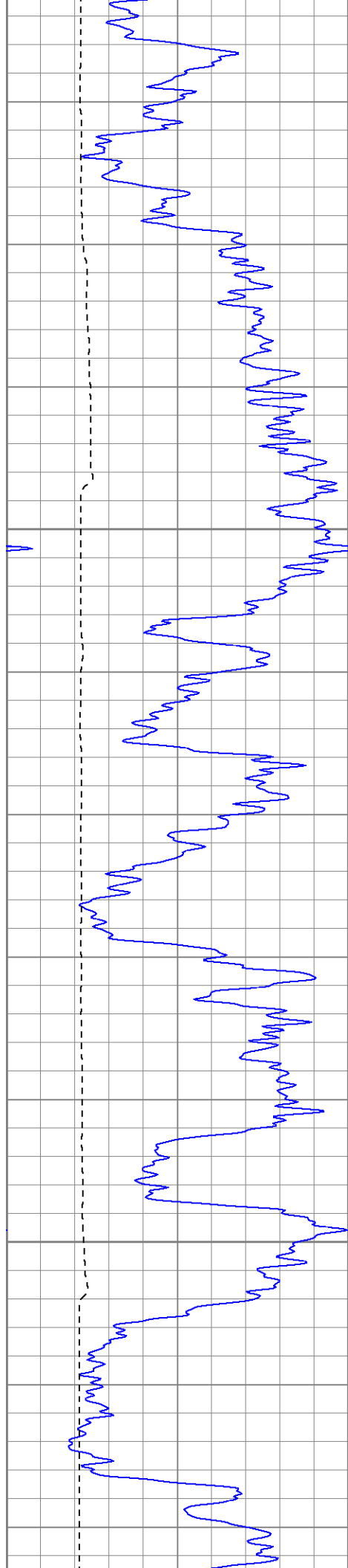




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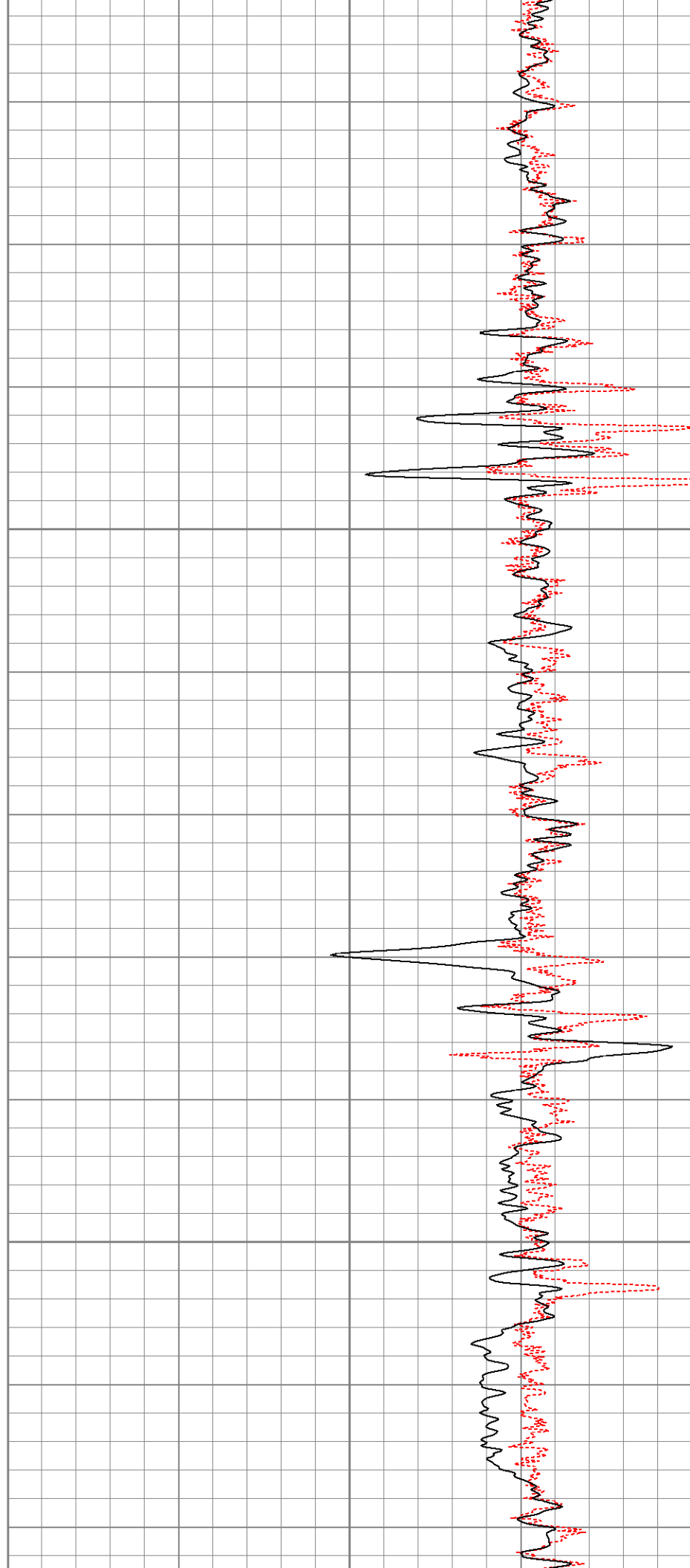
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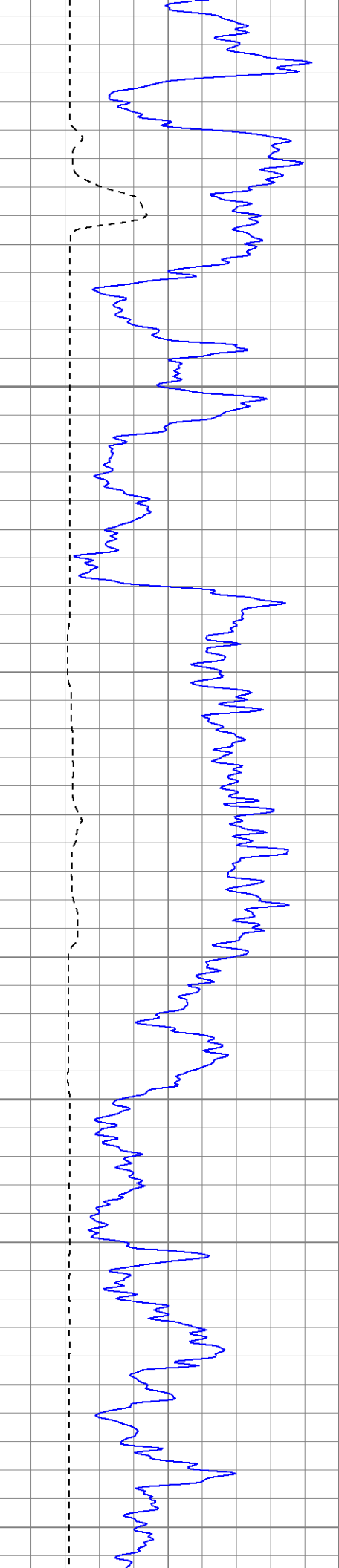




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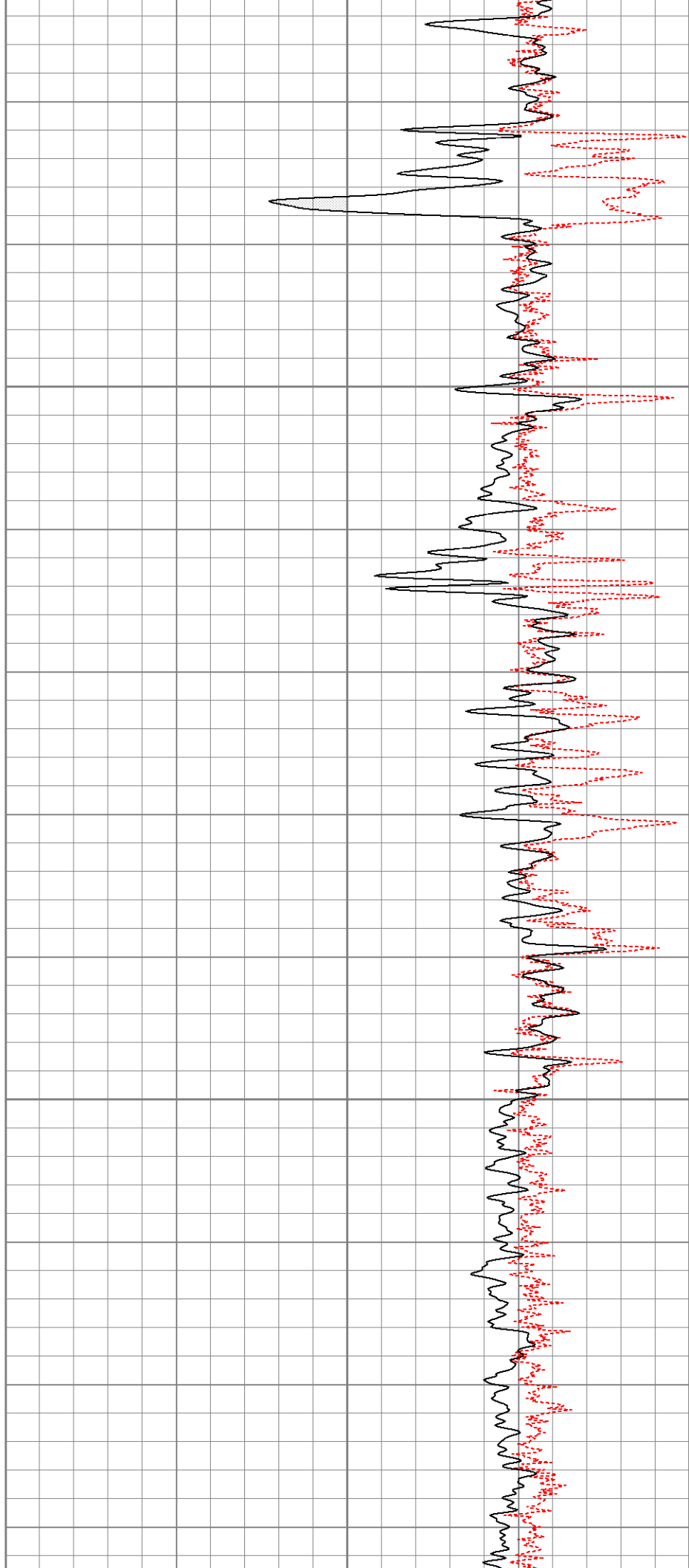
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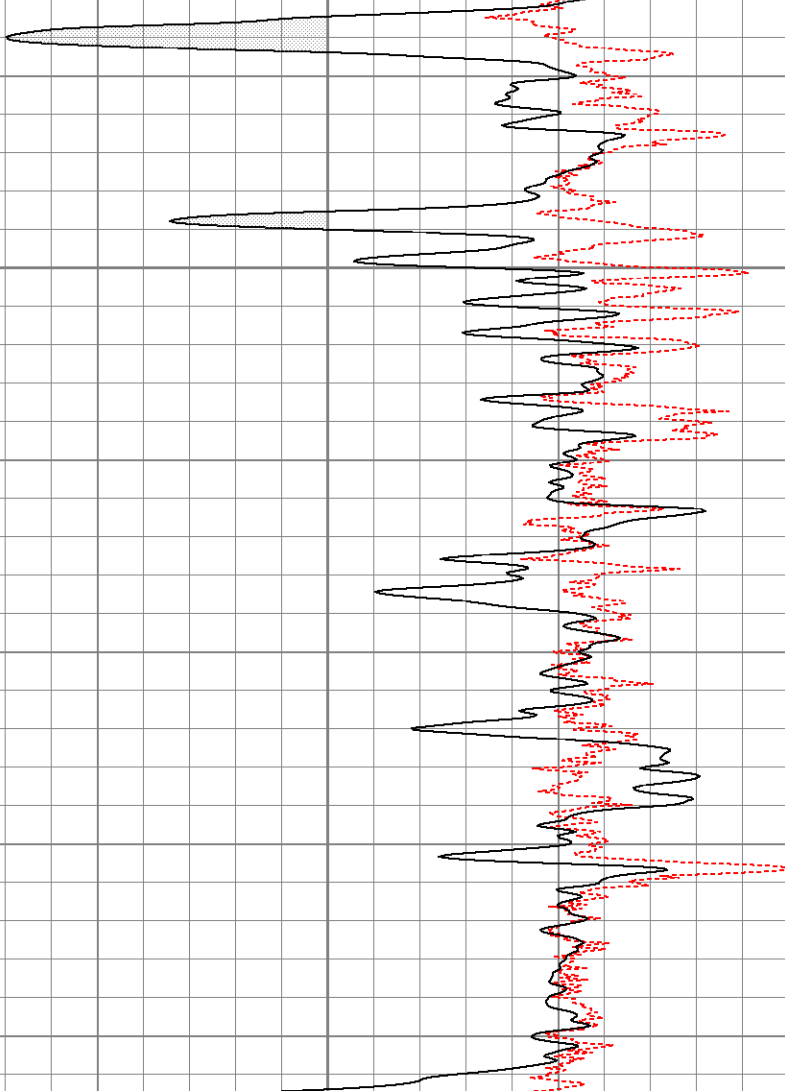
1450

1500



1550

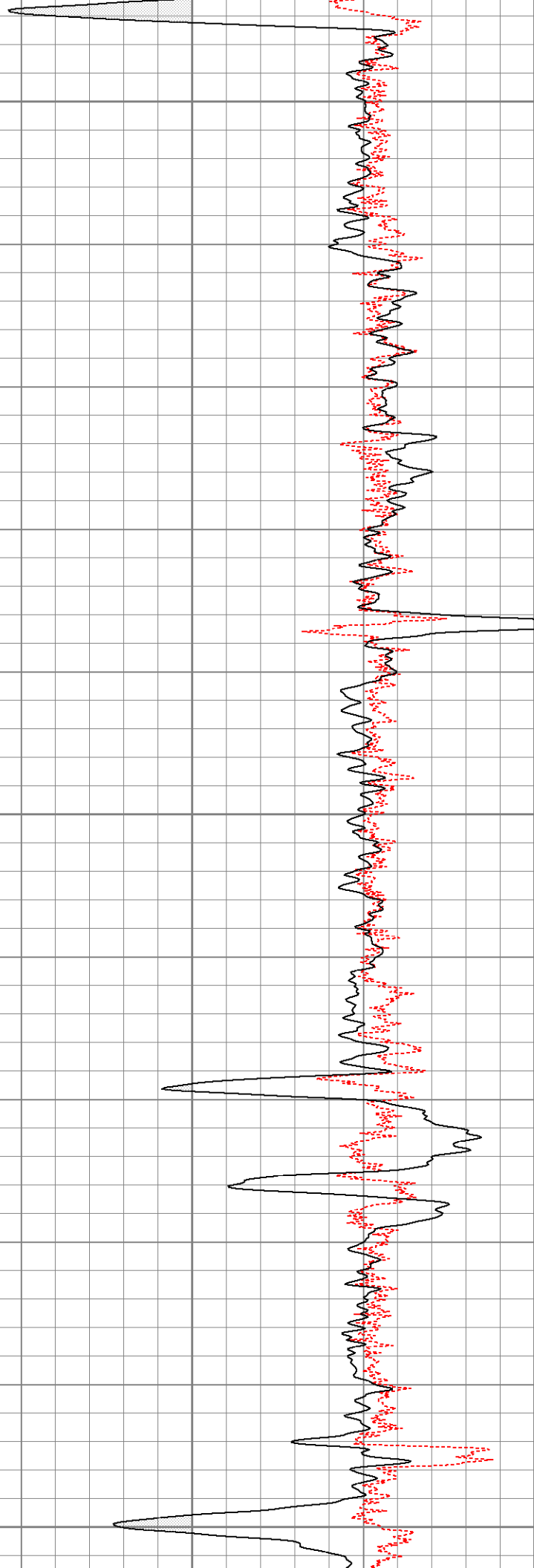
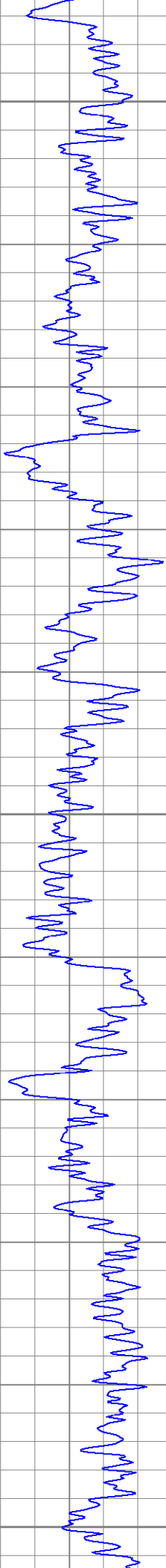
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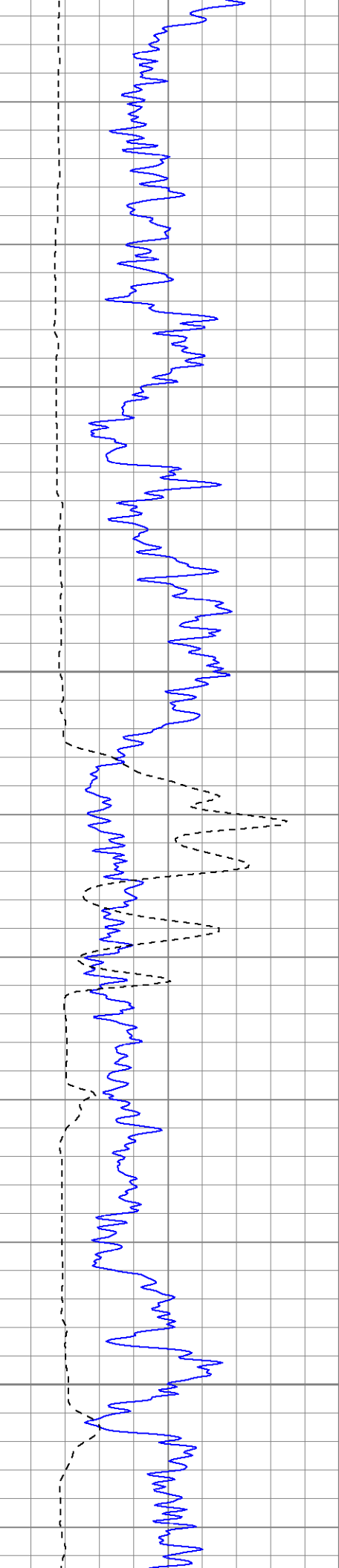


1650

1700

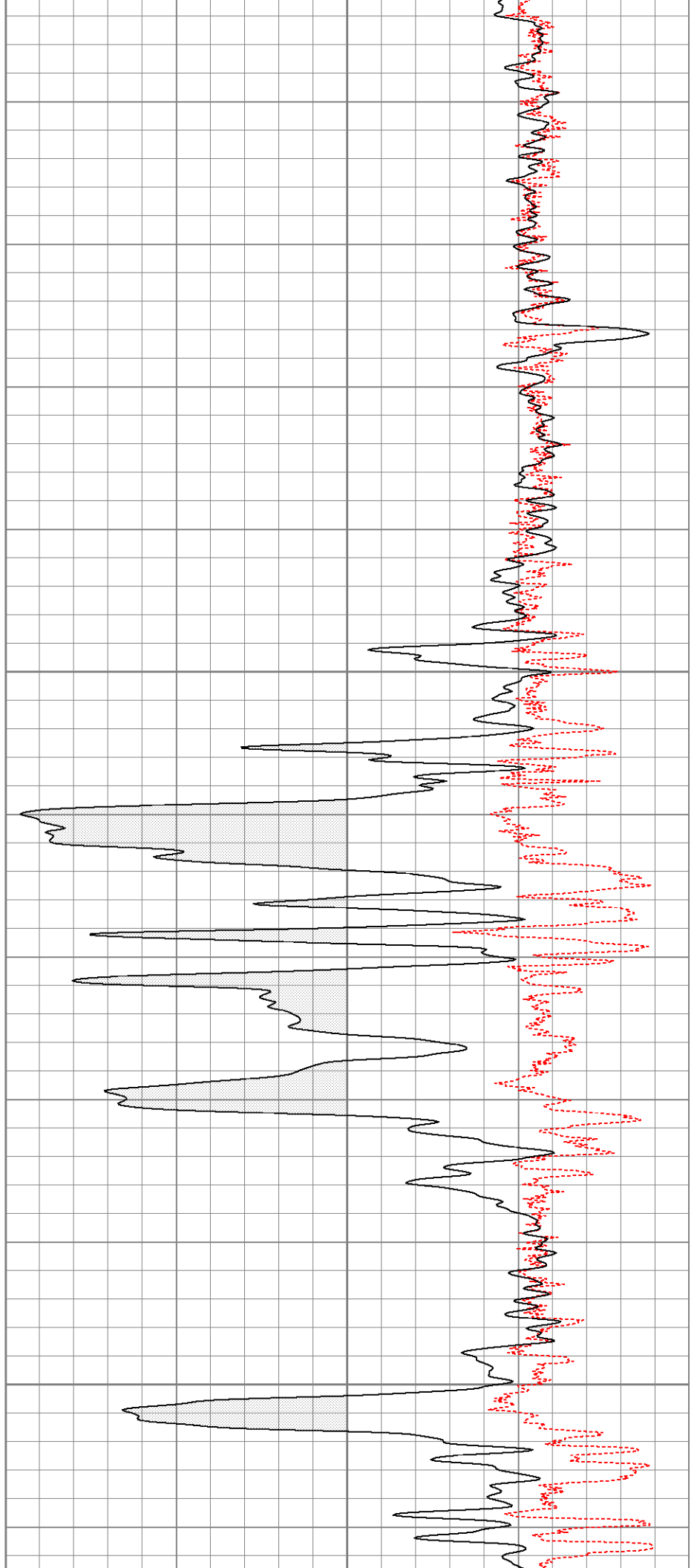
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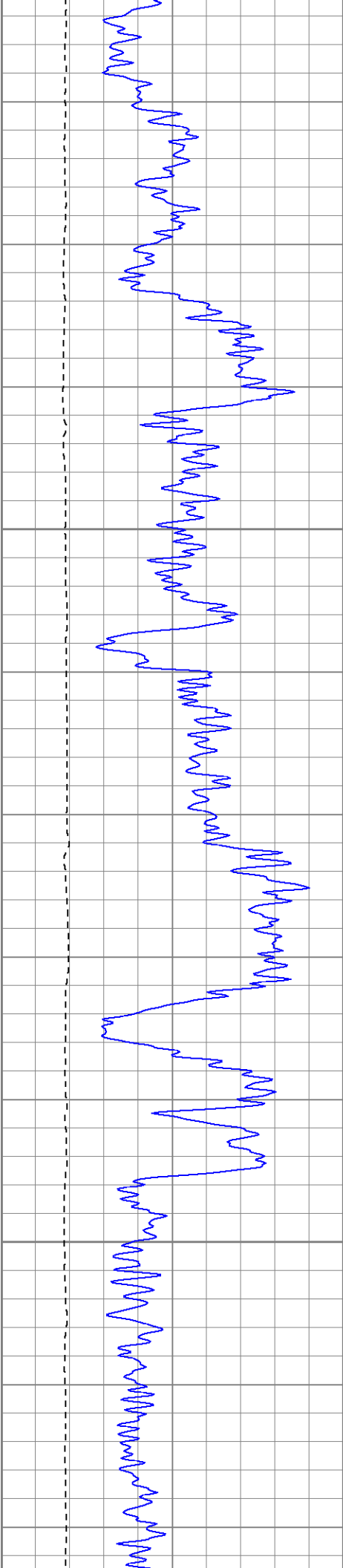




1800

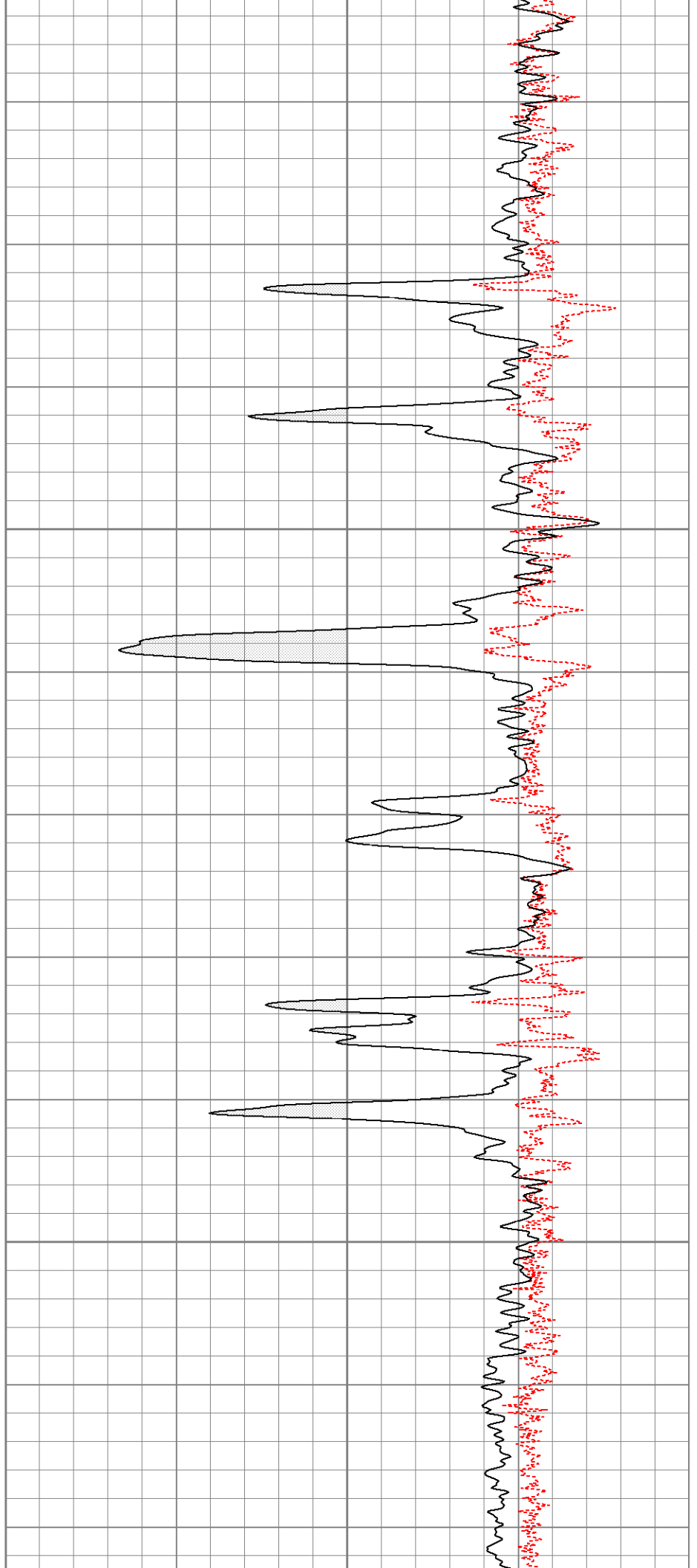
1850

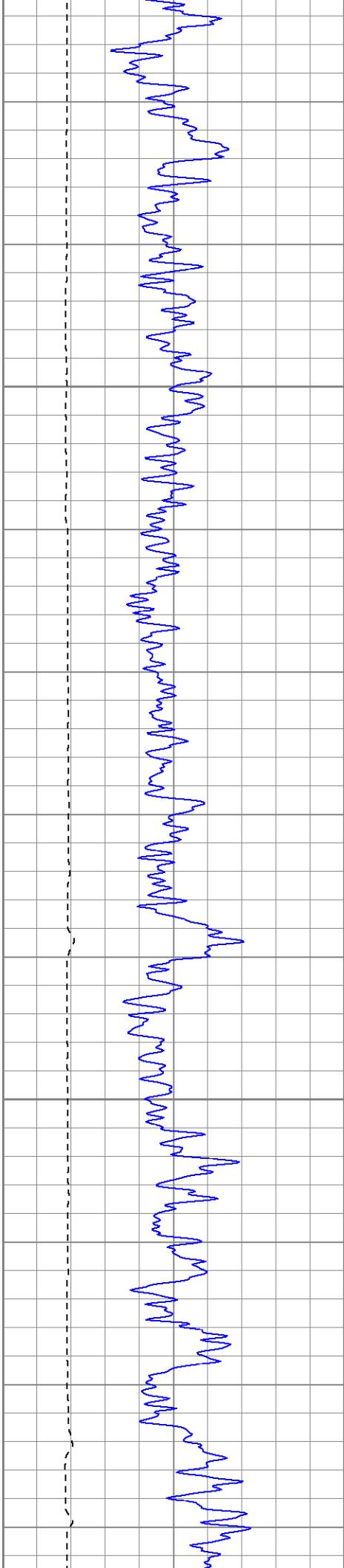




1900

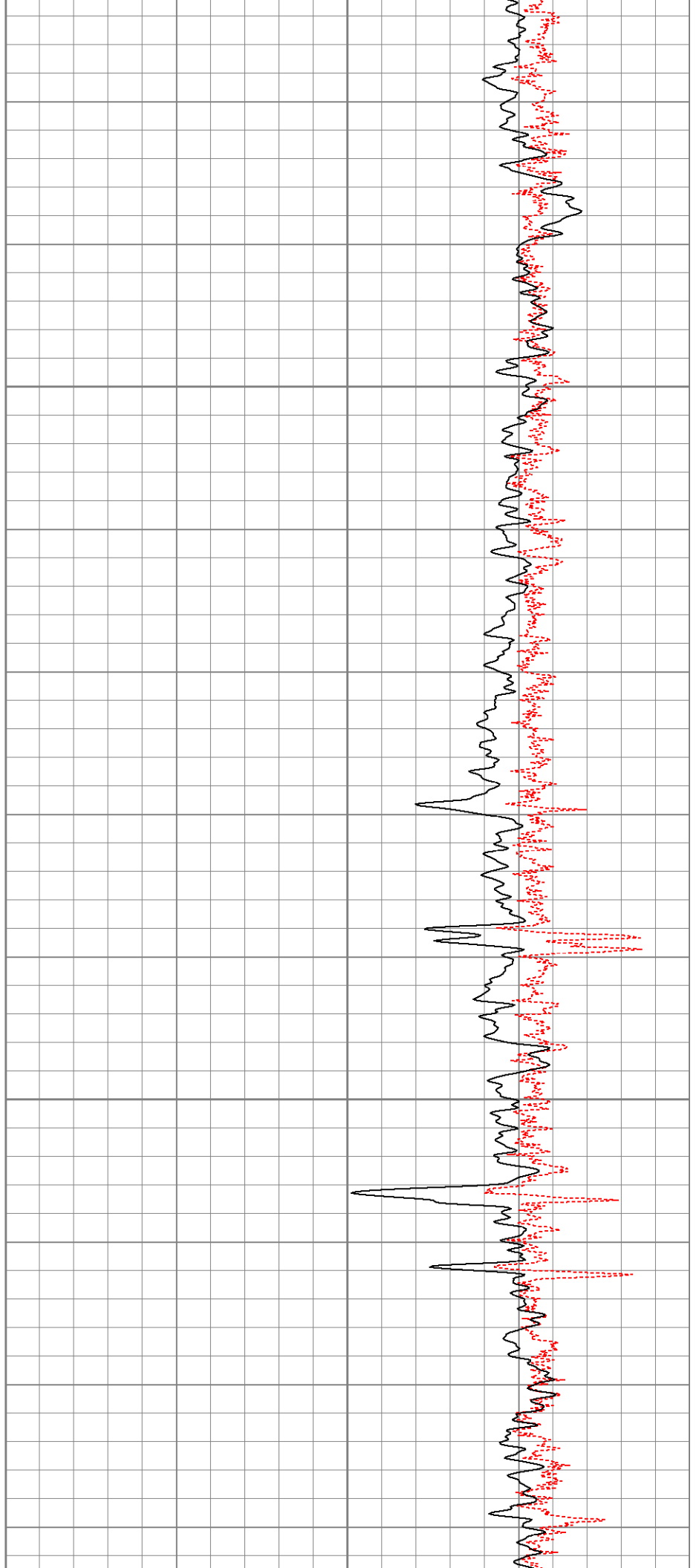
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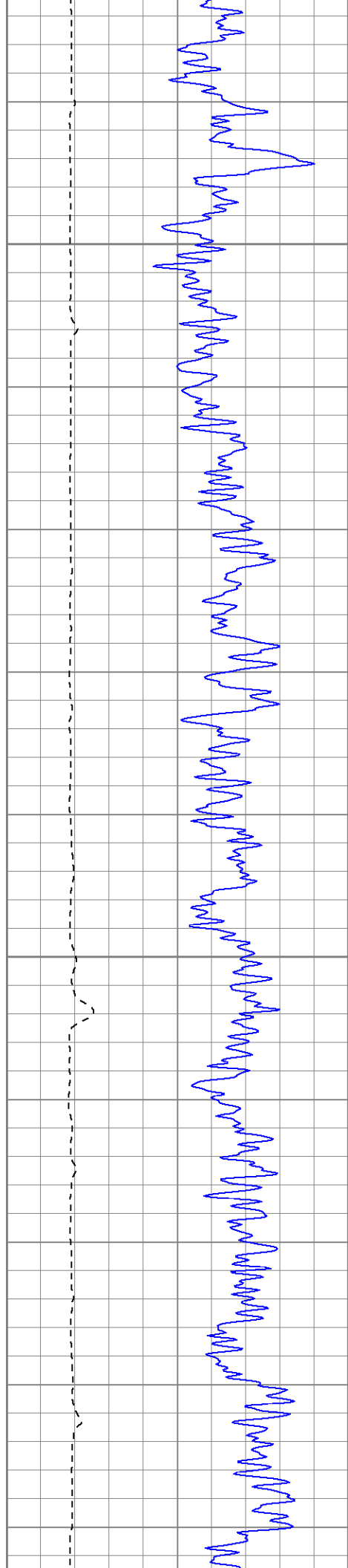




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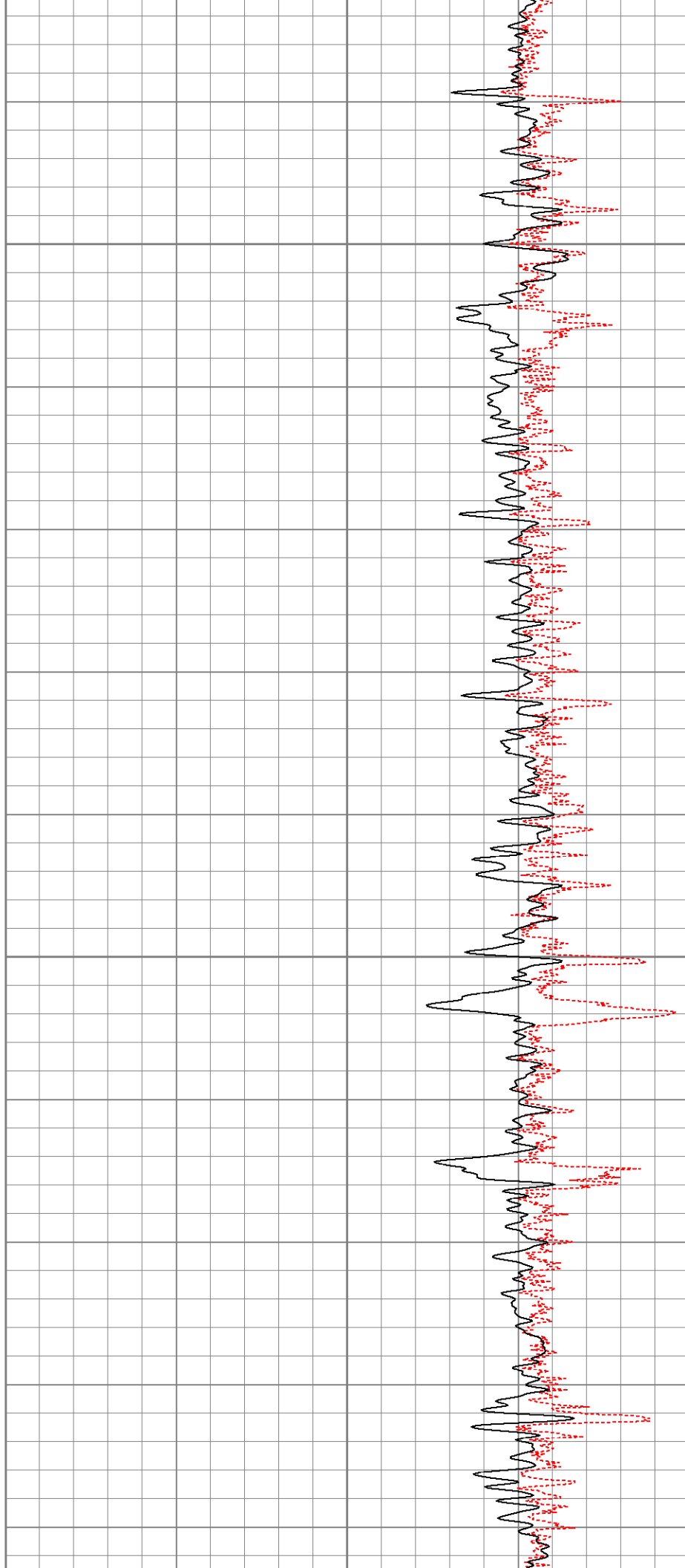
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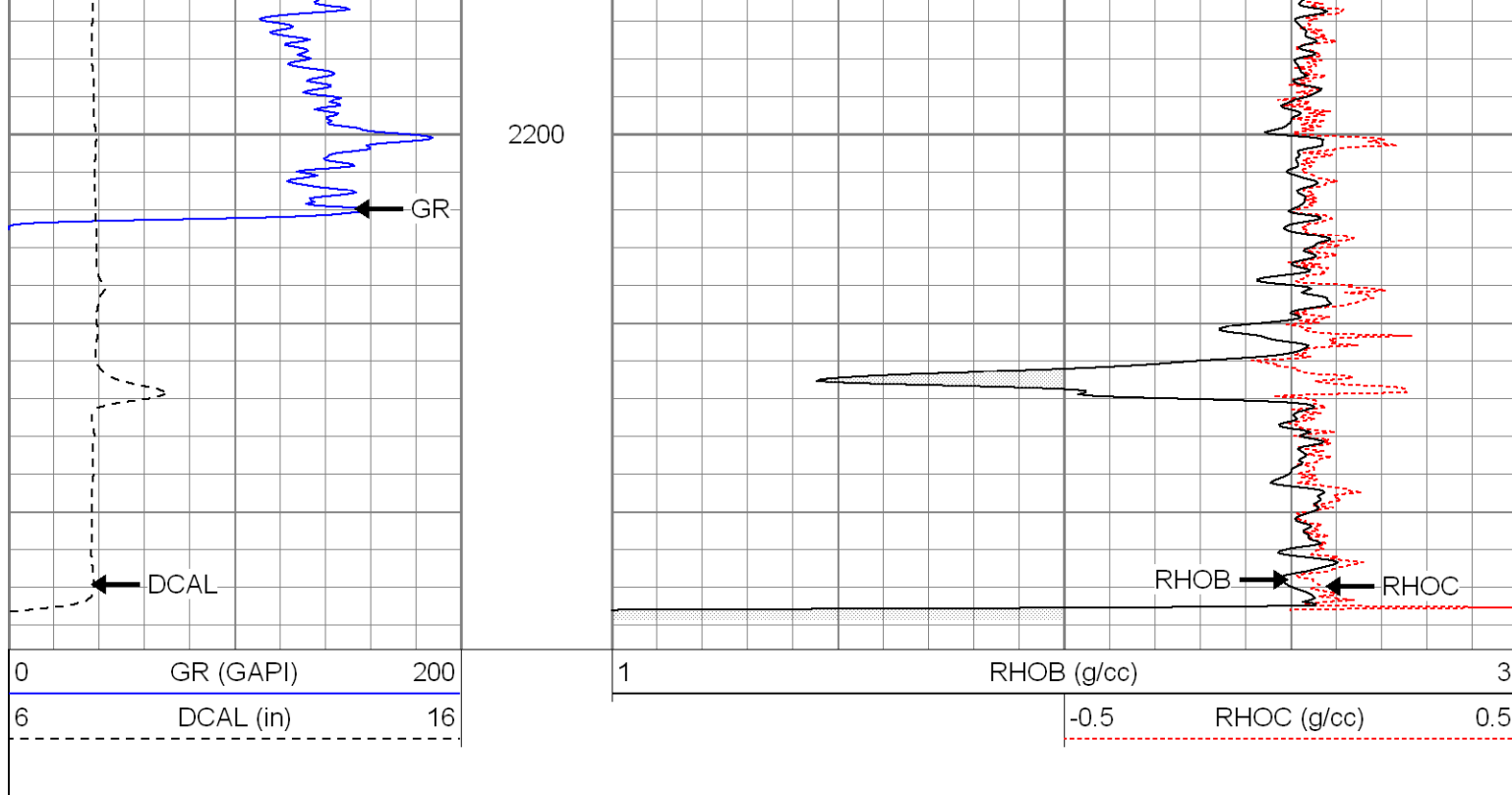




2100

2150





Calibration Report

Database File: xtone2501.db
 Dataset Pathname: pass6
 Dataset Creation: Thu Aug 09 10:53:55 2007 by Log Open-Cased 061129

Compensated Density Calibration Report

Serial-Model: 2119-O
 Source / Verifier: csv-j12 / blks
 Master Calibration Performed: Mon Jul 30 07:04:53 2007

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	988.49	602.41	cps
Aluminum	2.590	g/cc	220.69	404.88	cps
Spine Angle = 75.16			Density/Spine Ratio = 0.567		
	Size		Reading		
Small Ring	7.85	in	3.30	V	
Large Ring	14.00	in	8.81	V	

Gamma Ray Calibration Report

Serial Number: 2119
 Tool Model: O
 Performed: Thu Aug 09 10:32:12 2007

Calibrator Value: 170.0 GAPI

Background Reading: 42.6 cps
 Calibrator Reading: 139.0 cps

Sensitivity: 0.6000 GAPI/cps

Neutron Calibration Report

Sensitivity: 1 NAPI/cps

Dataset:	xtone2501.db: field/well/run1/pass6
Total Length:	14.87 ft
Total Weight:	365.00 lb
O.D.	4.00 in