



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

COMPENSATED DENSITY/NEUTRON LOG

Company XTO Energy Inc.
Well New Elk 25-04
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09535 00

829' FNL & 1200' FWL

Other Services
DIL

SEC 25 TWP 33S RGE 68W

Permanent Datum Ground Level Elevation 7765'

Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 7765'

Date 6-26-08

Run Number One

Depth Driller 2200'

Depth Logger 2202'

Bottom Logged Interval 2185'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 903'

Casing Logger 901'

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 1:40 P.M.

Maximum Recorded Temperature 117 DEG F

Equipment Number T697

Location Trinidad

Recorded By J. Cappellucci

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:

Second Bosque Entrance, straight across railroad tracks, at Y stay right to Apache canyon, drive through 4 drive thru locations take next right, dead end on location.



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Main Pass

Database File: xtone2504.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Thu Jun 26 15:16:17 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

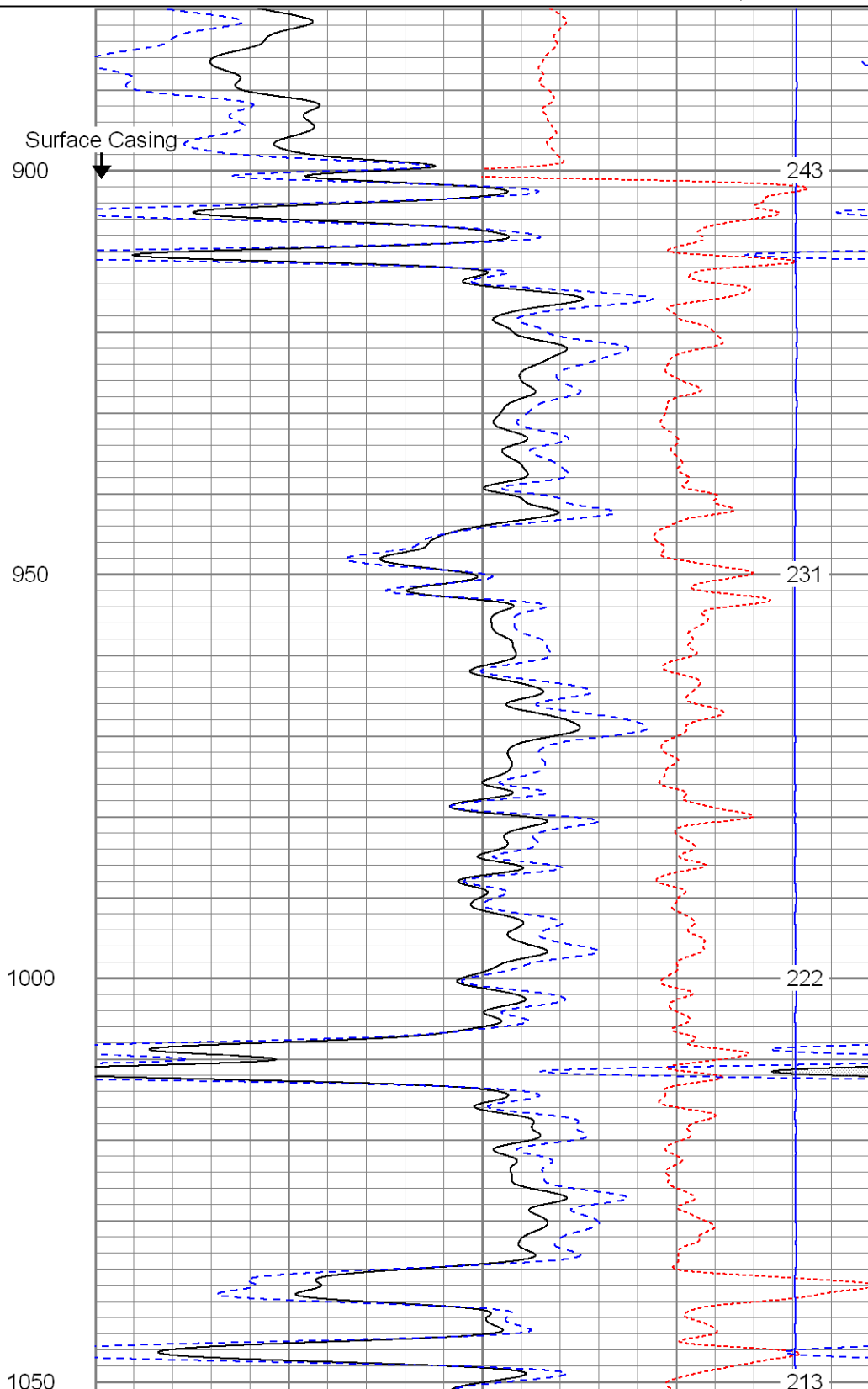
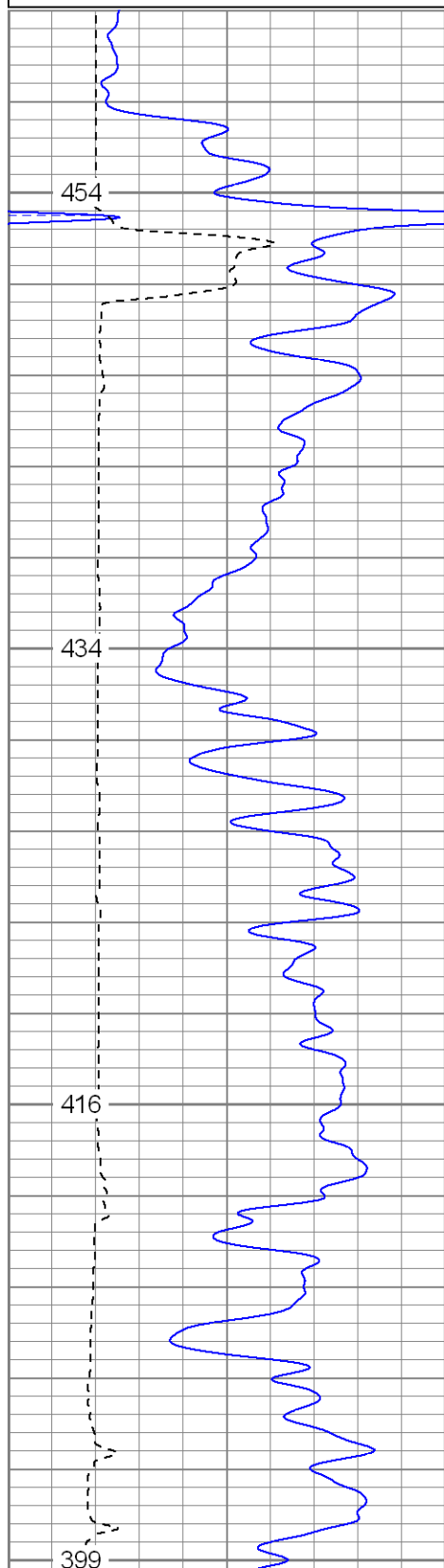
0	GR (GAPI)	200
6	DCAL (in)	16

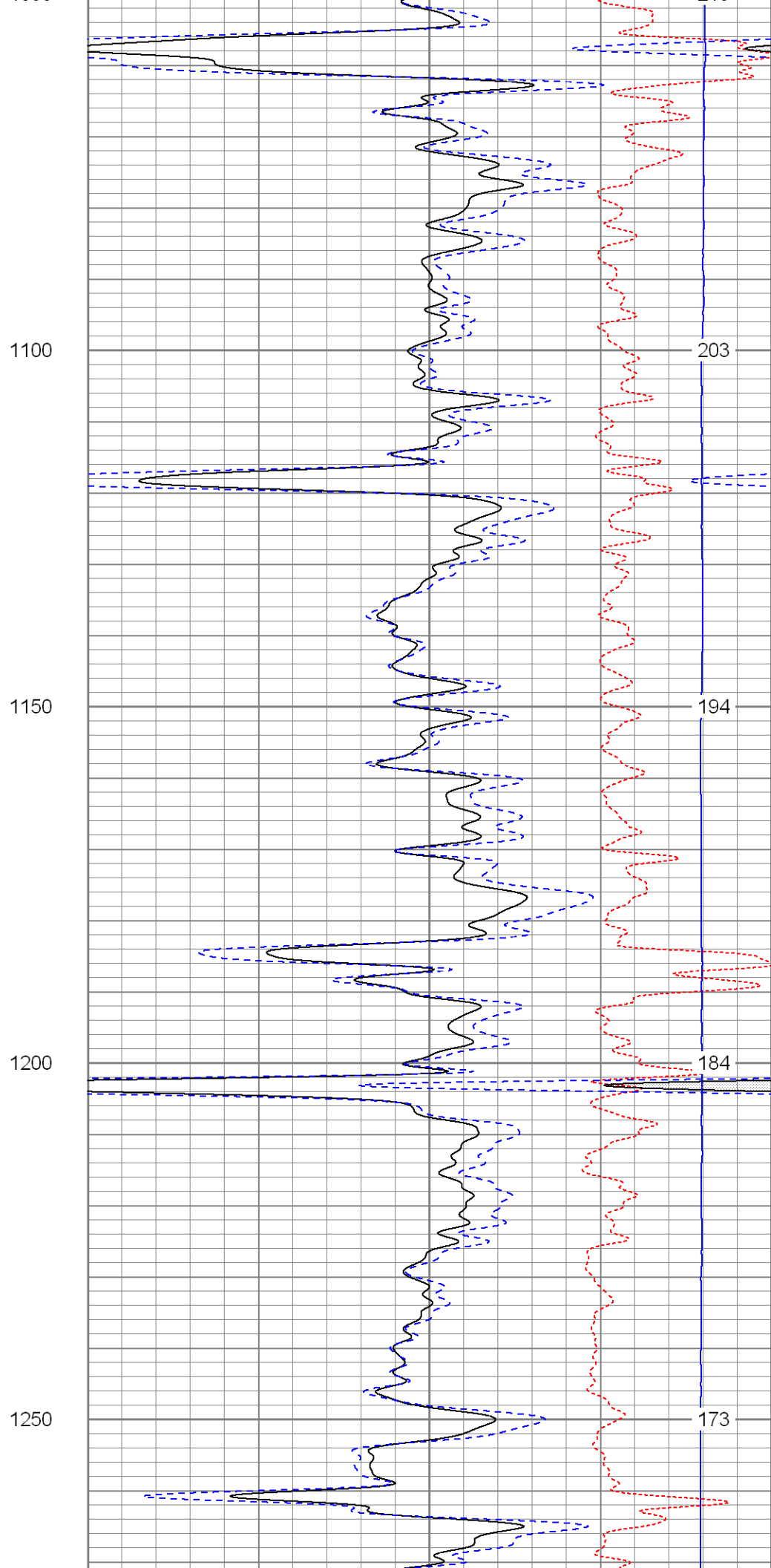
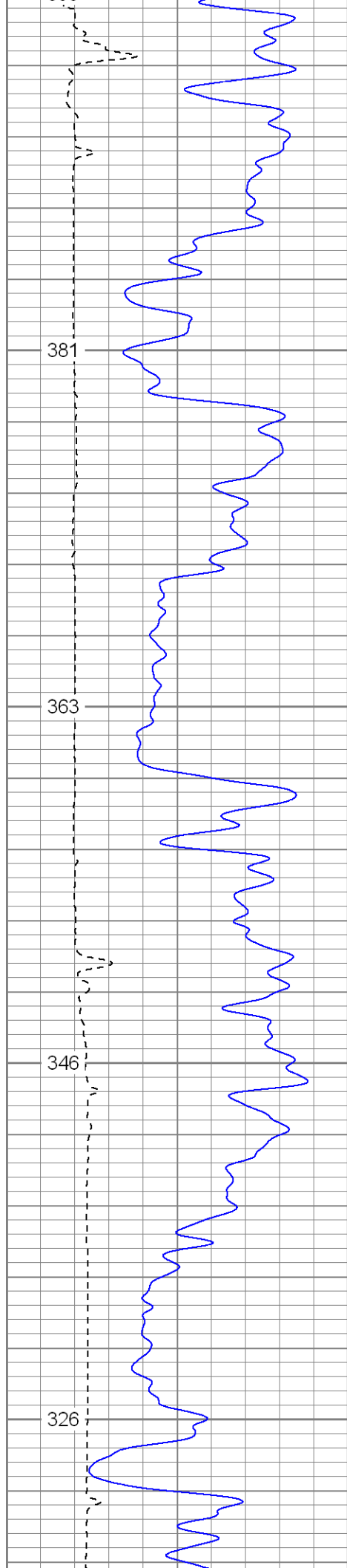
TBHV (ft3)		

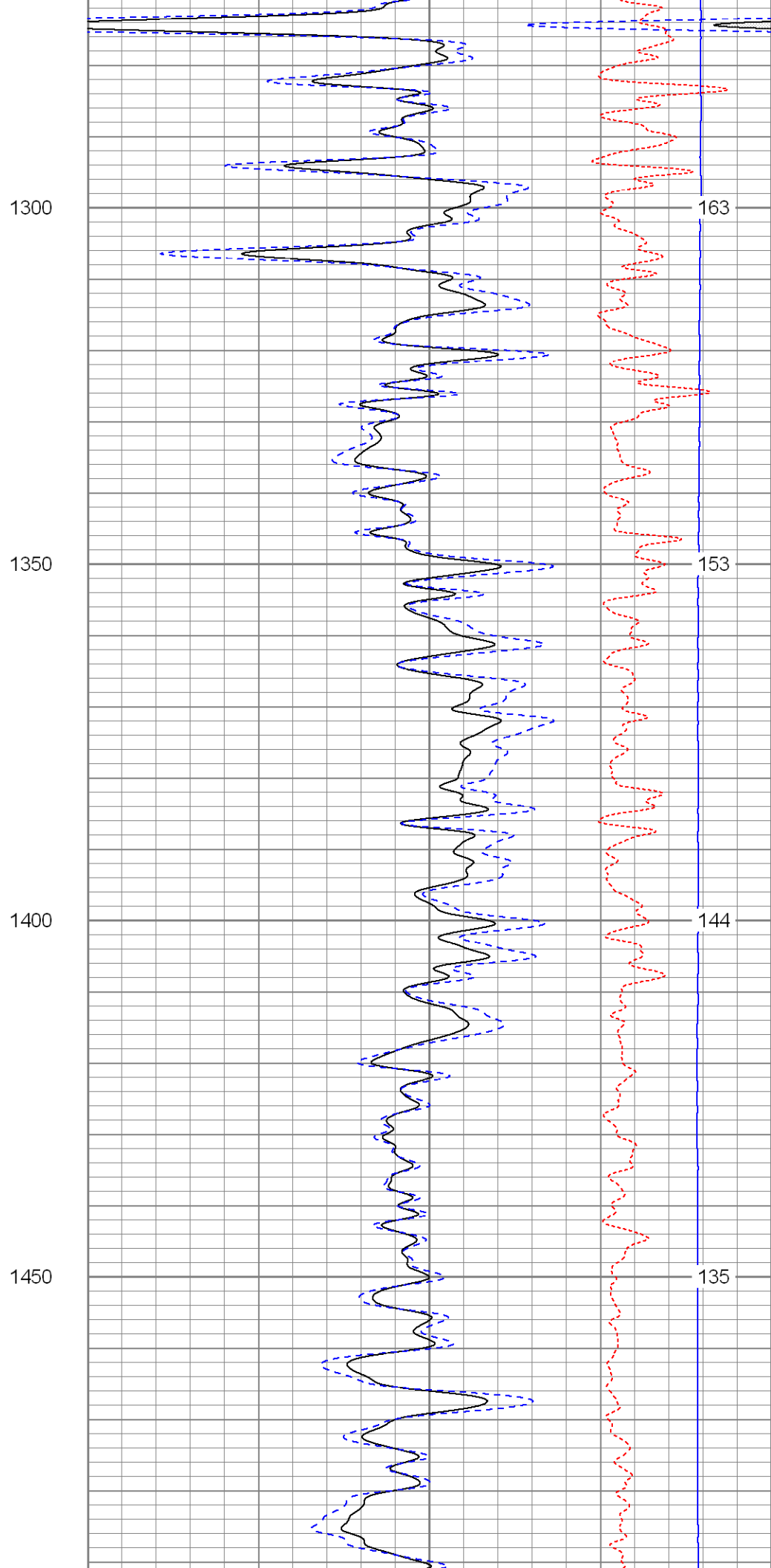
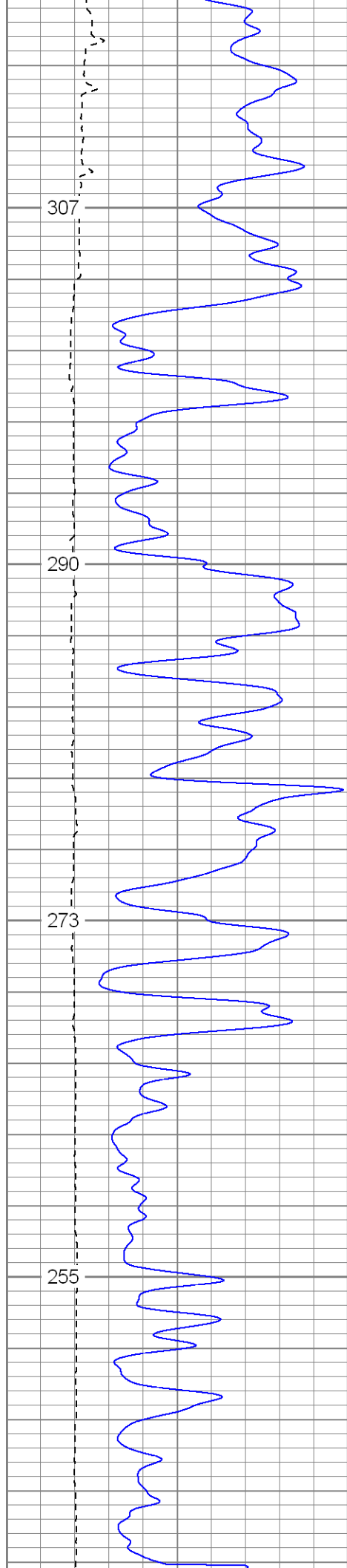
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10

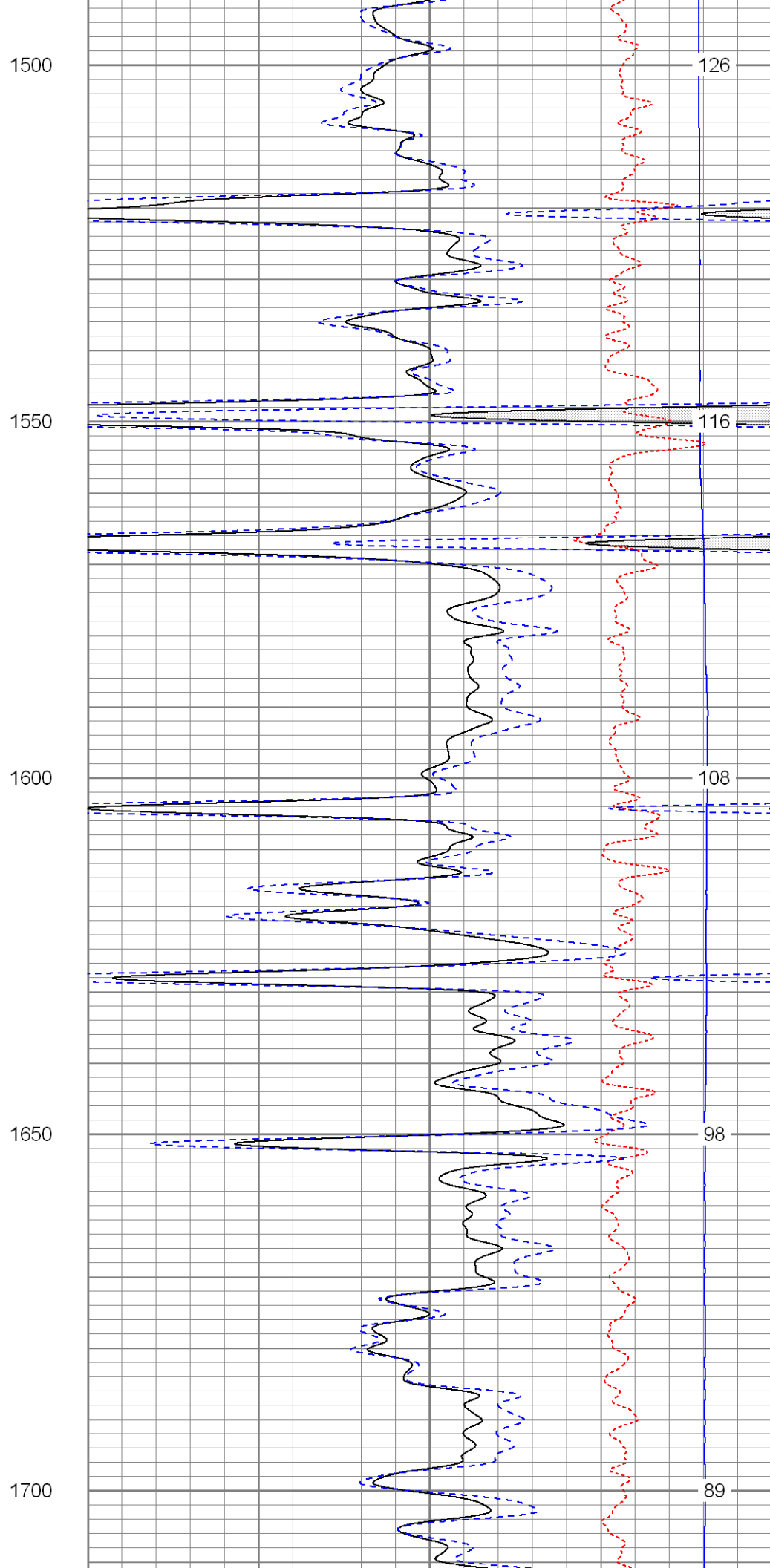
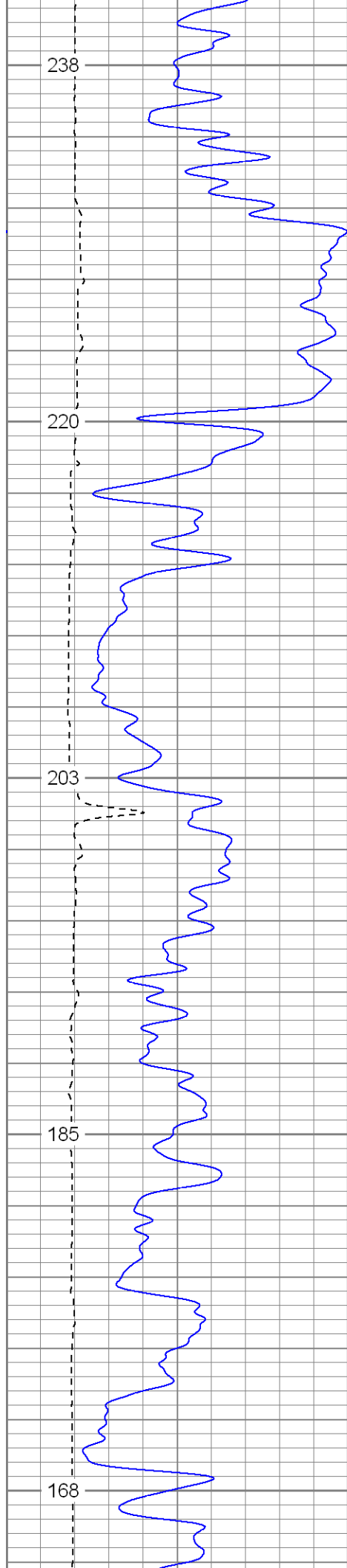
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0

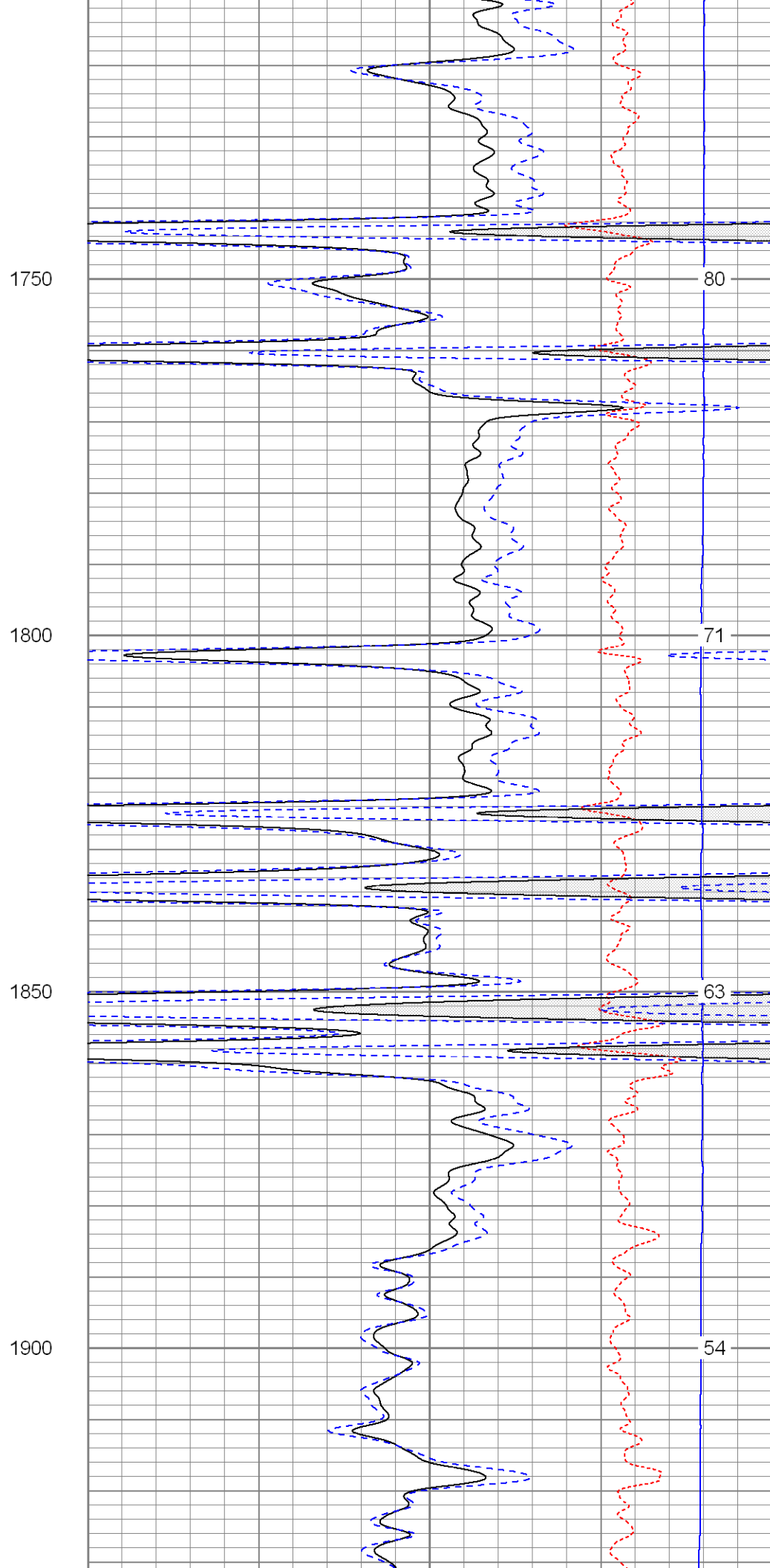
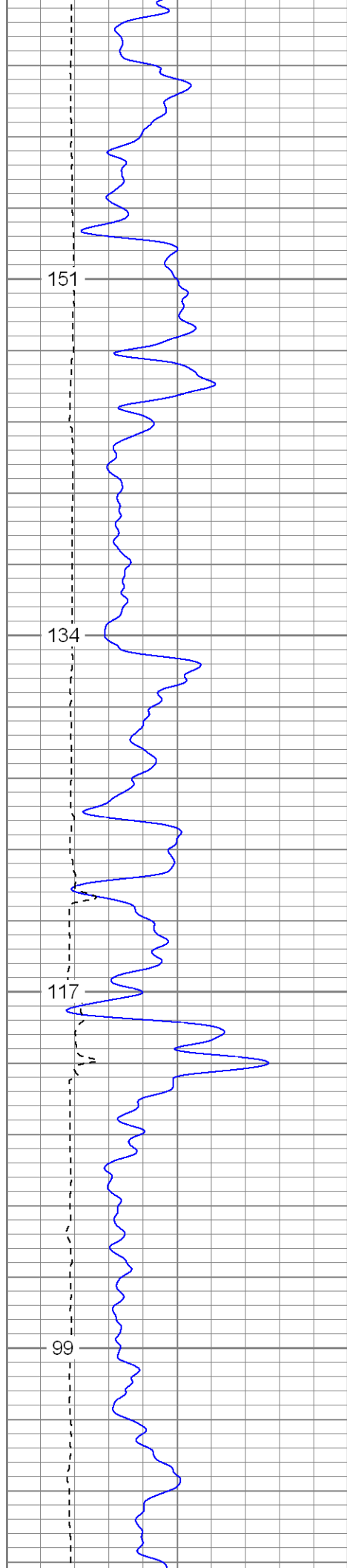
	ABHV (ft3)	

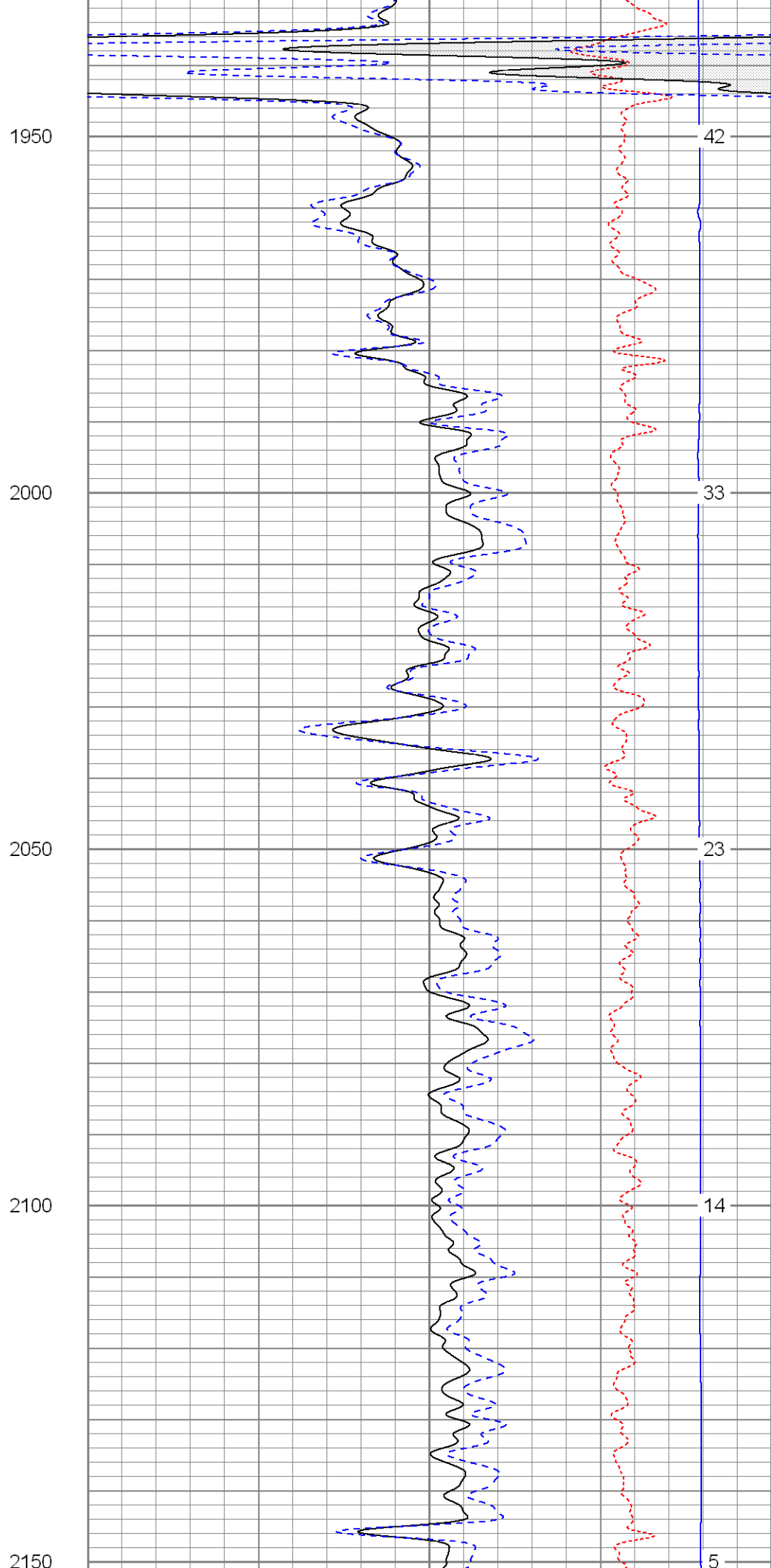
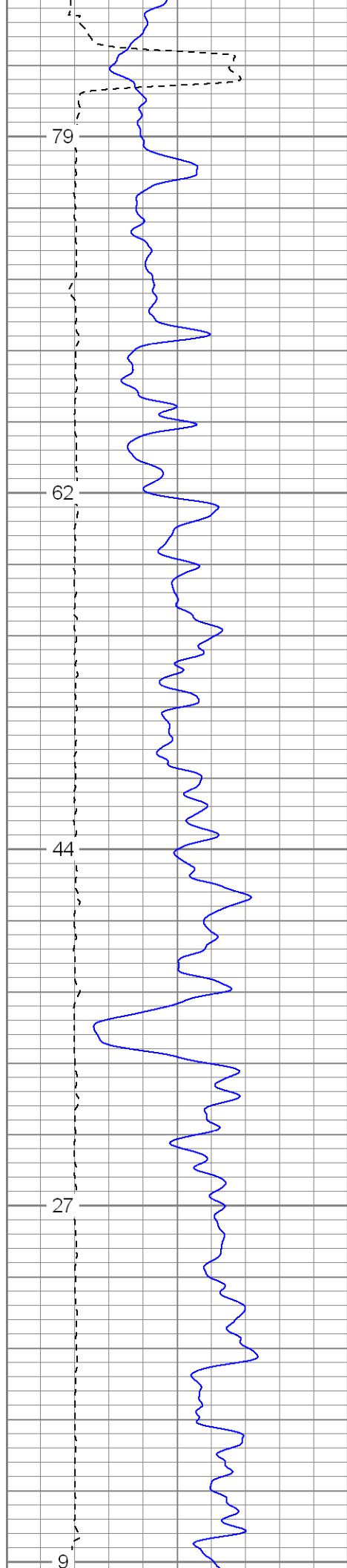


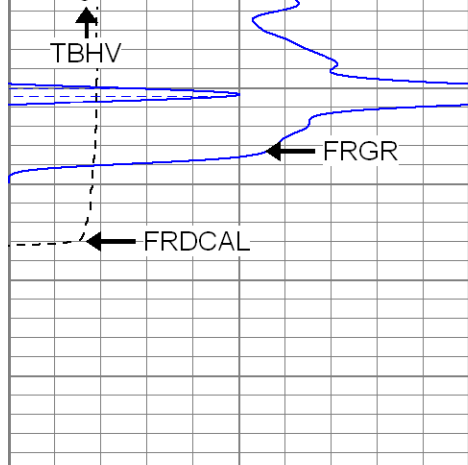




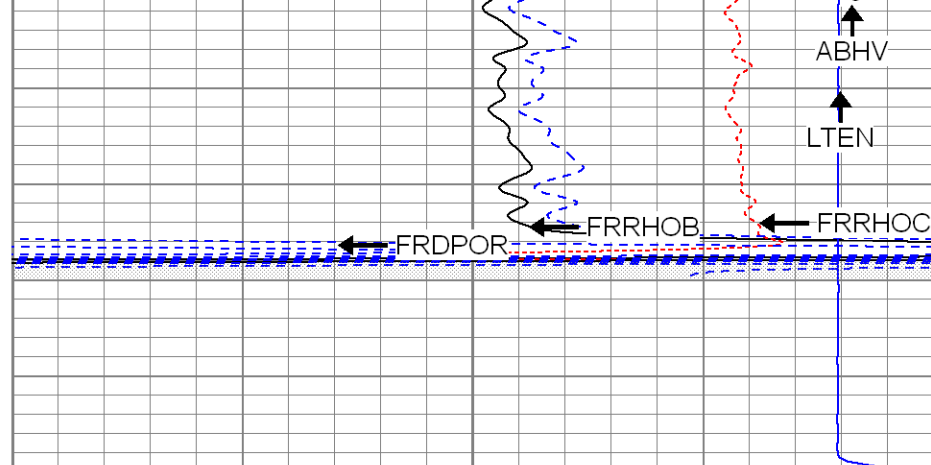








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



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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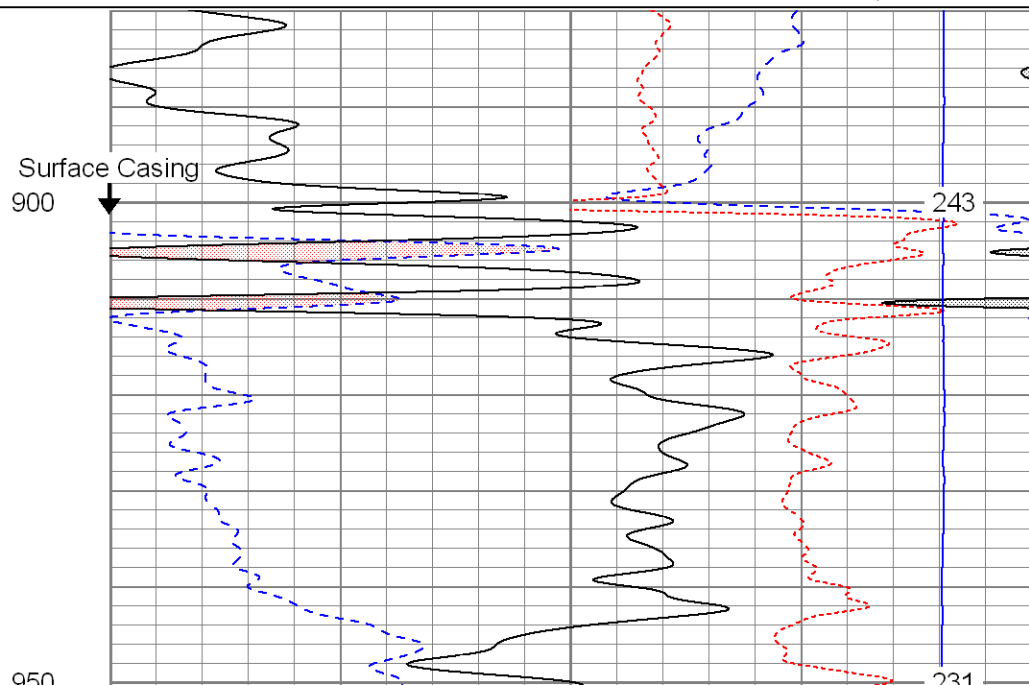
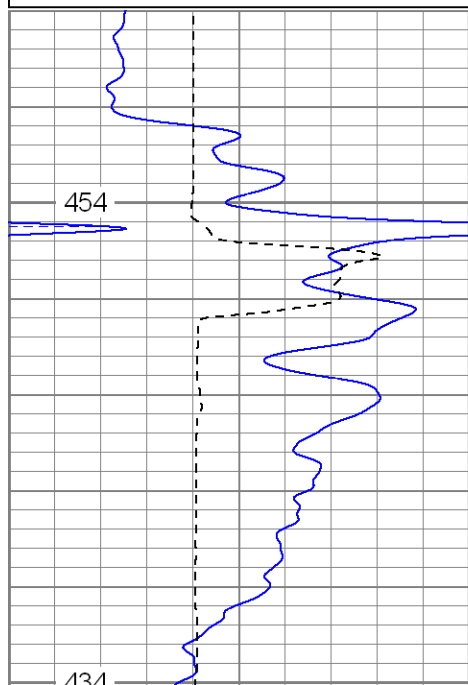
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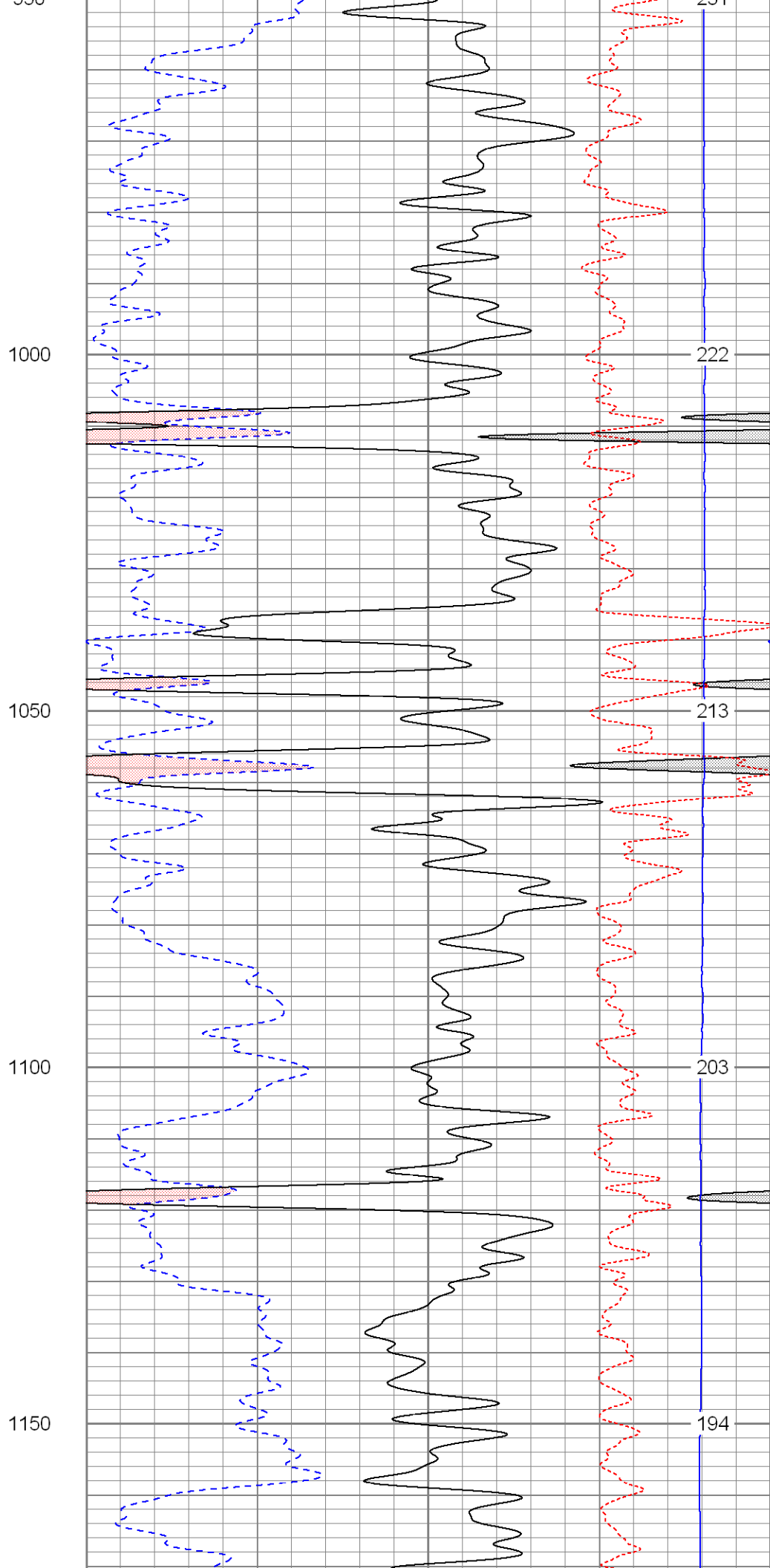
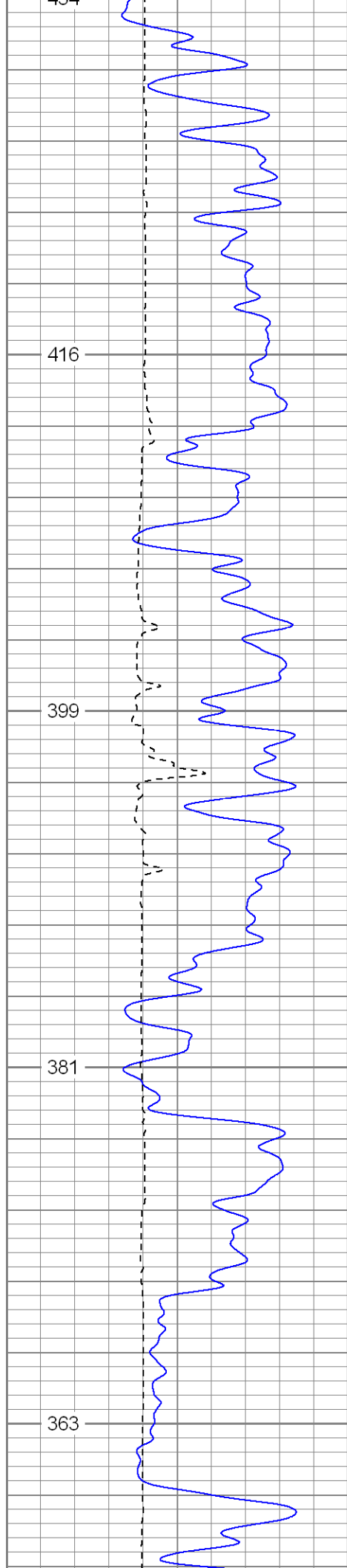
Main Pass

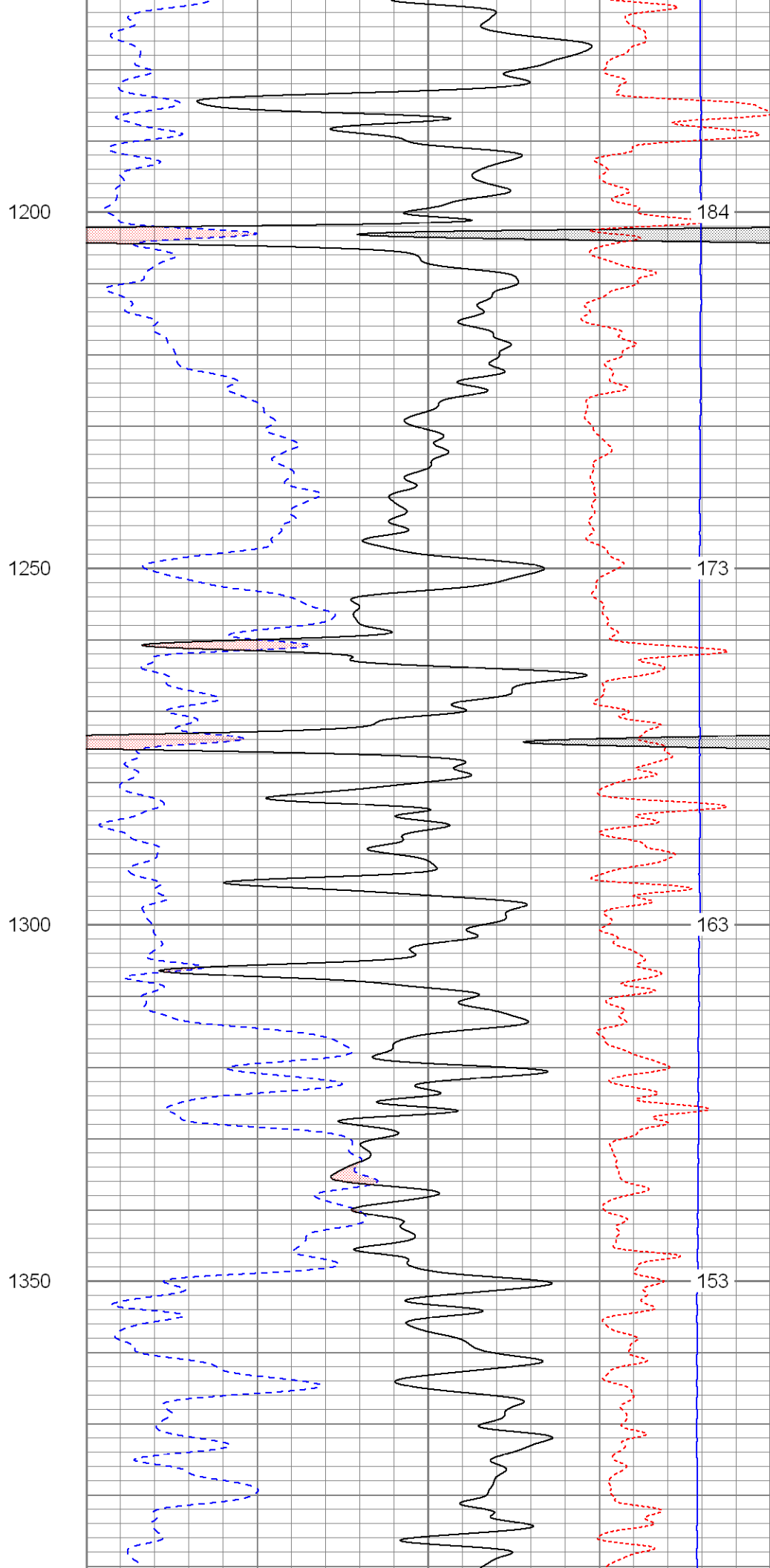
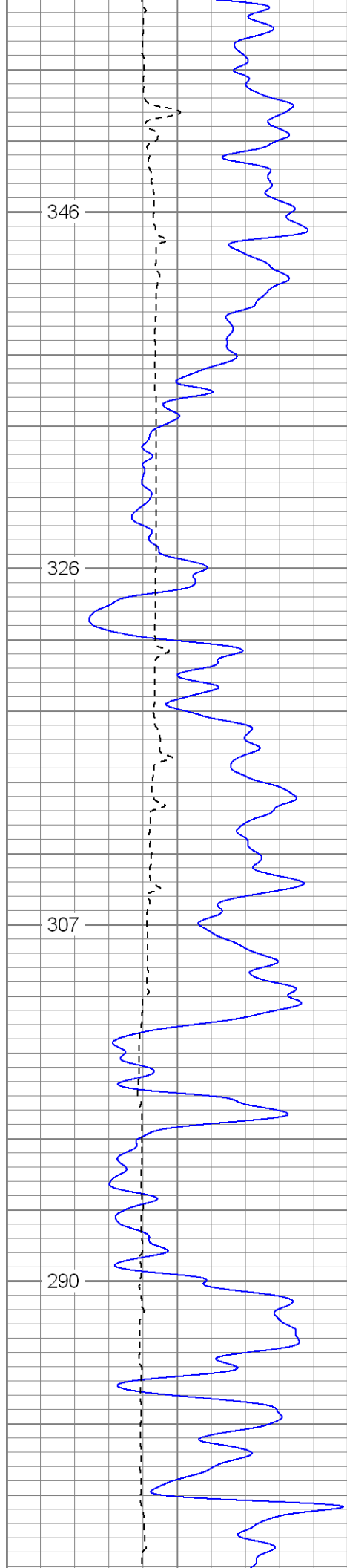
Database File: xtone2504.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Thu Jun 26 15:16:17 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

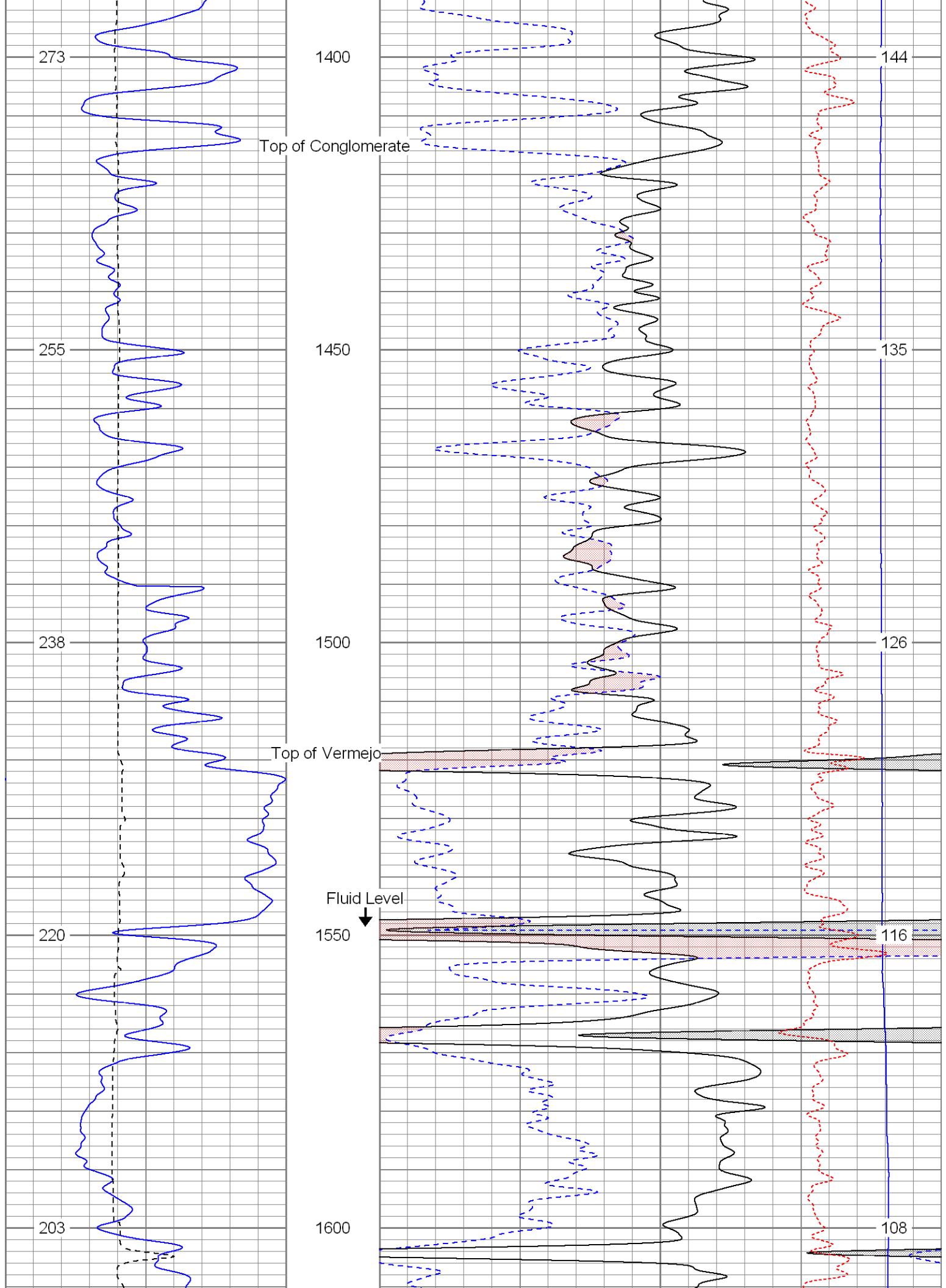
0	GR (GAPI)	200
4	DCAL (in)	14
TBHV (ft3)		

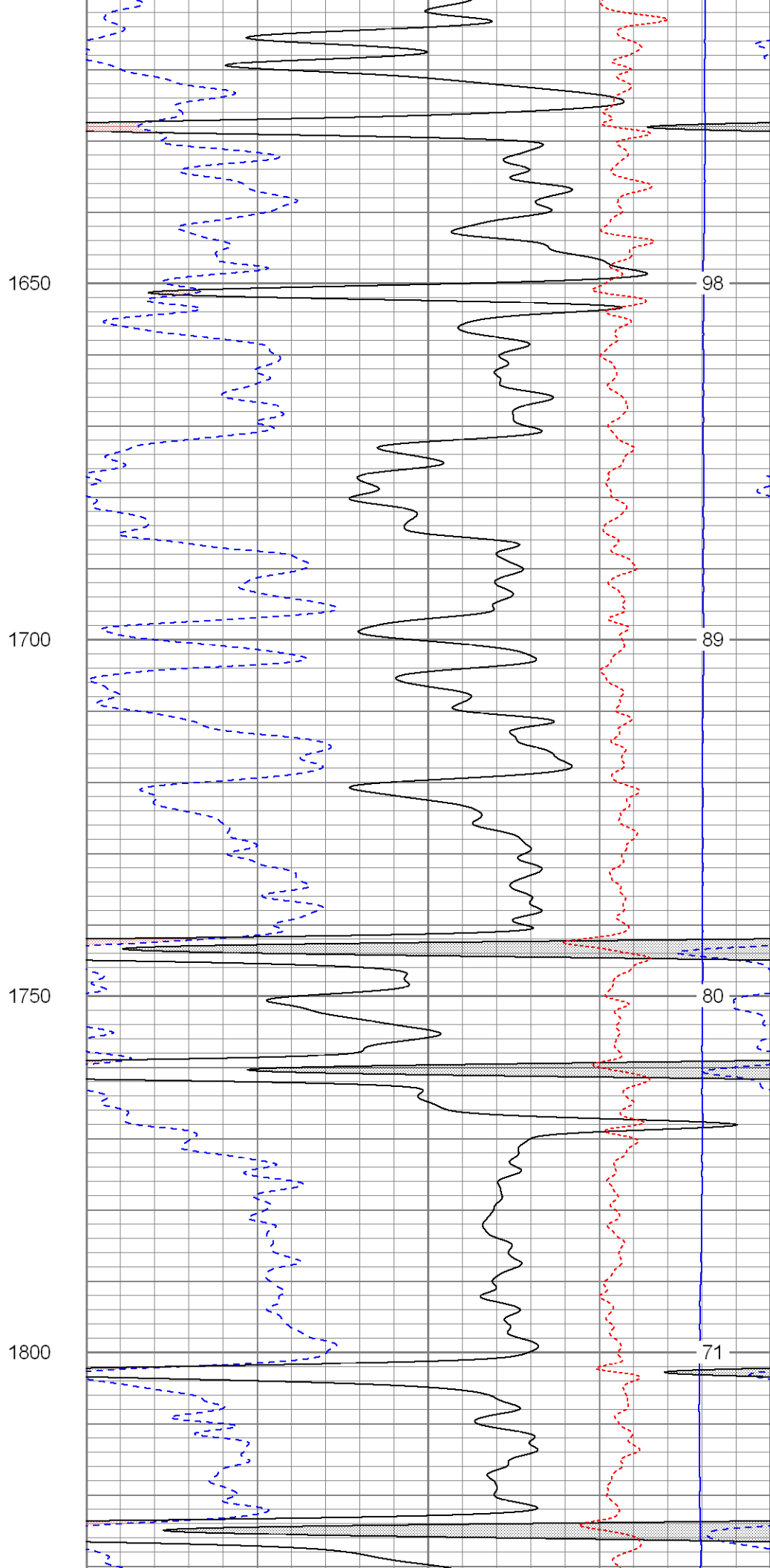
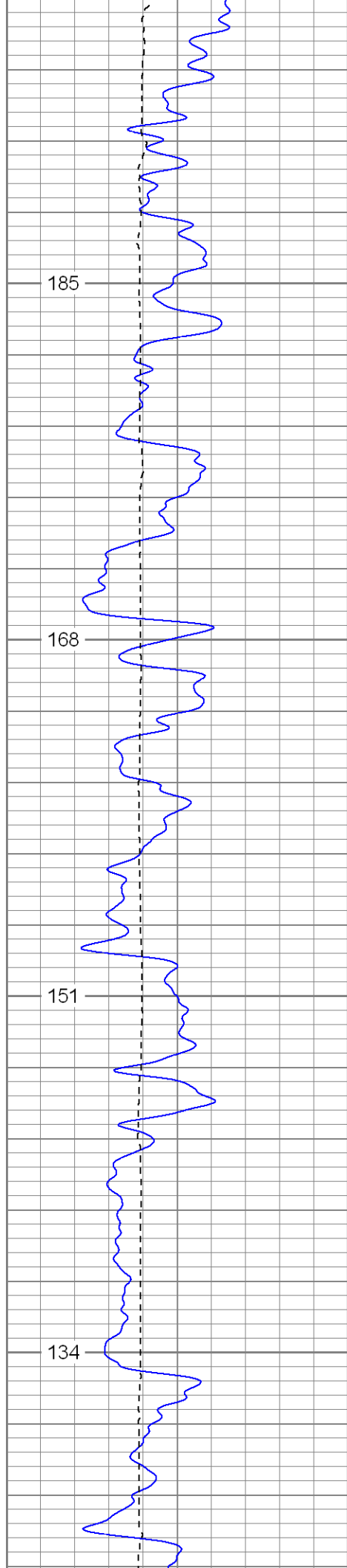
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
ABHV (ft3)		

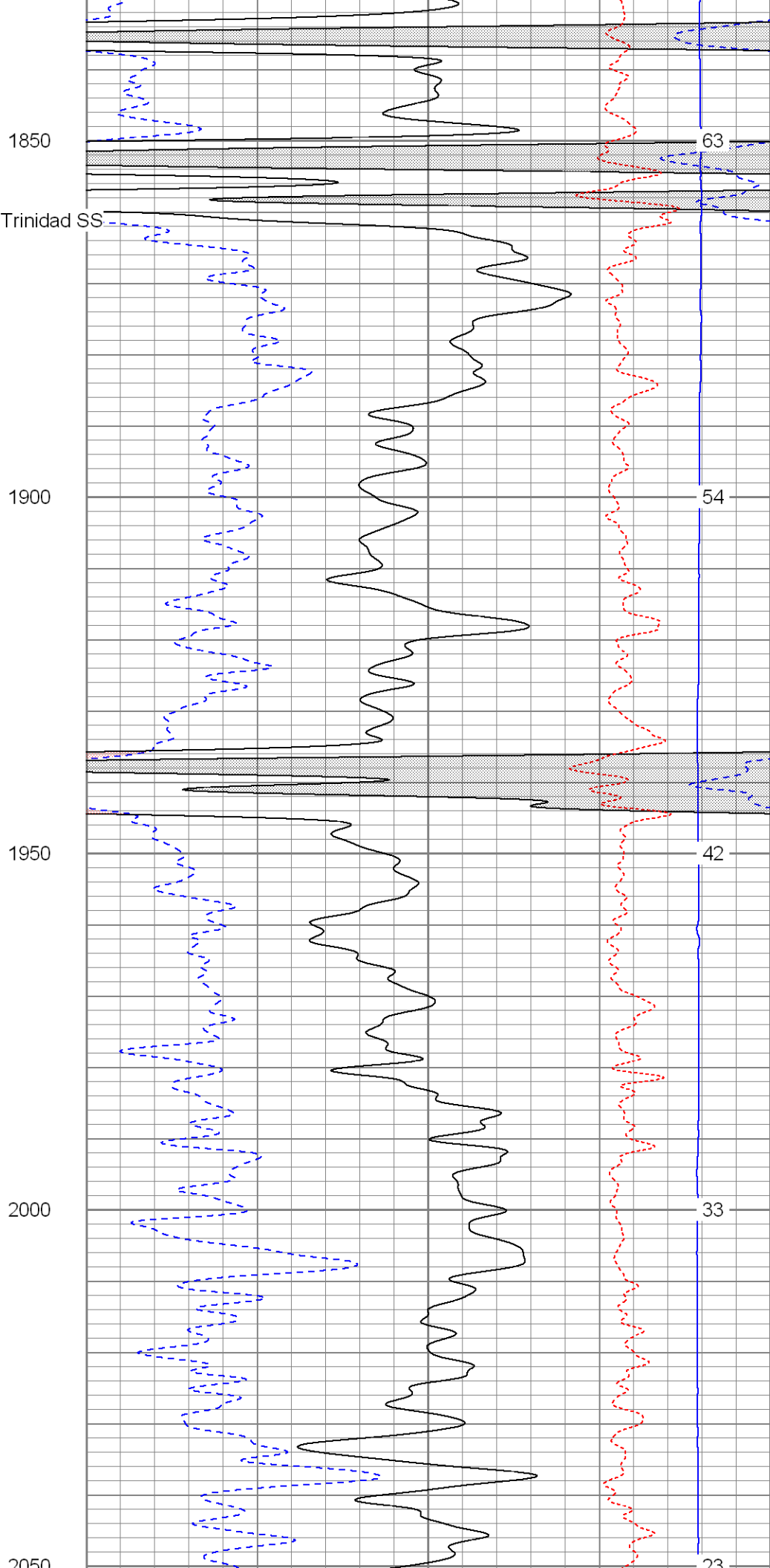
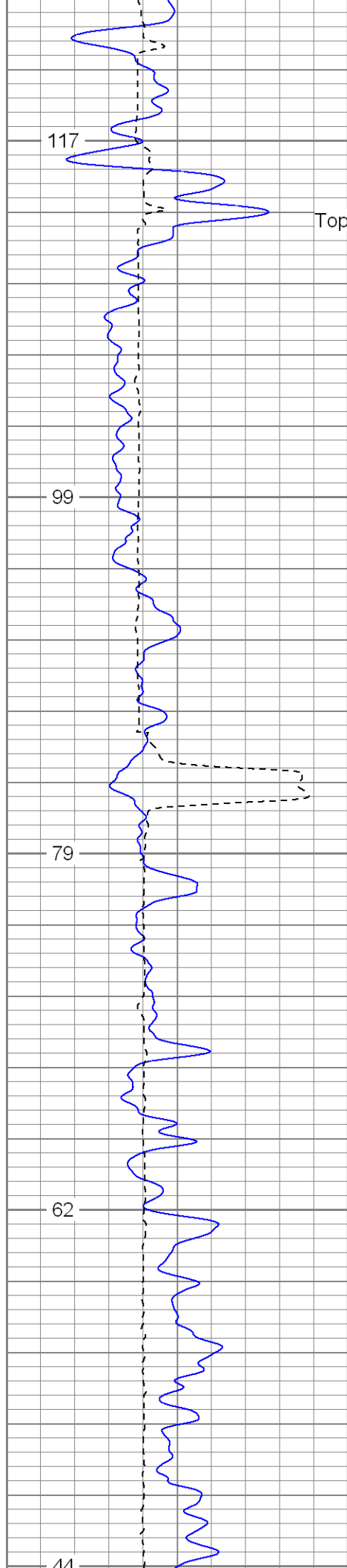


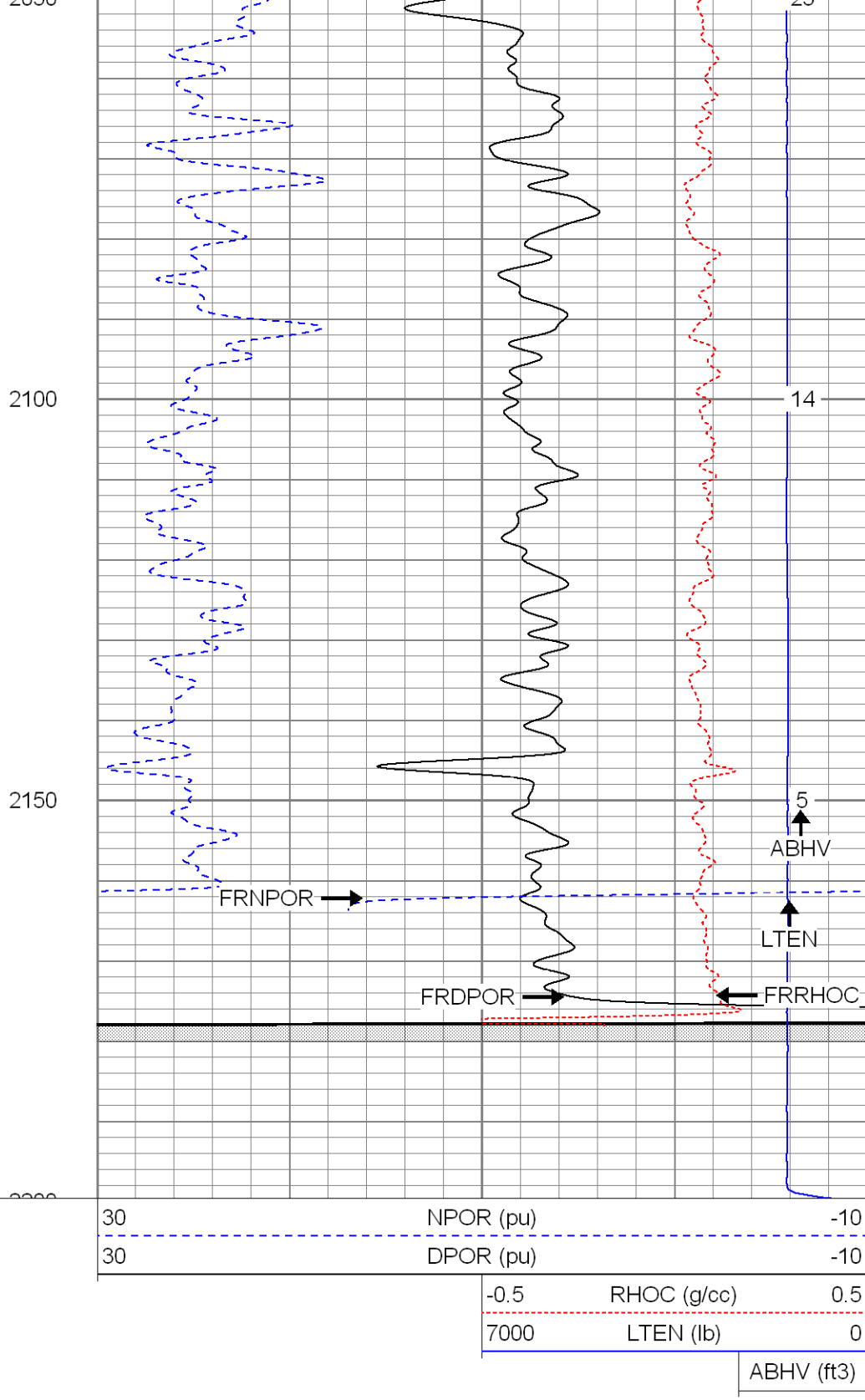
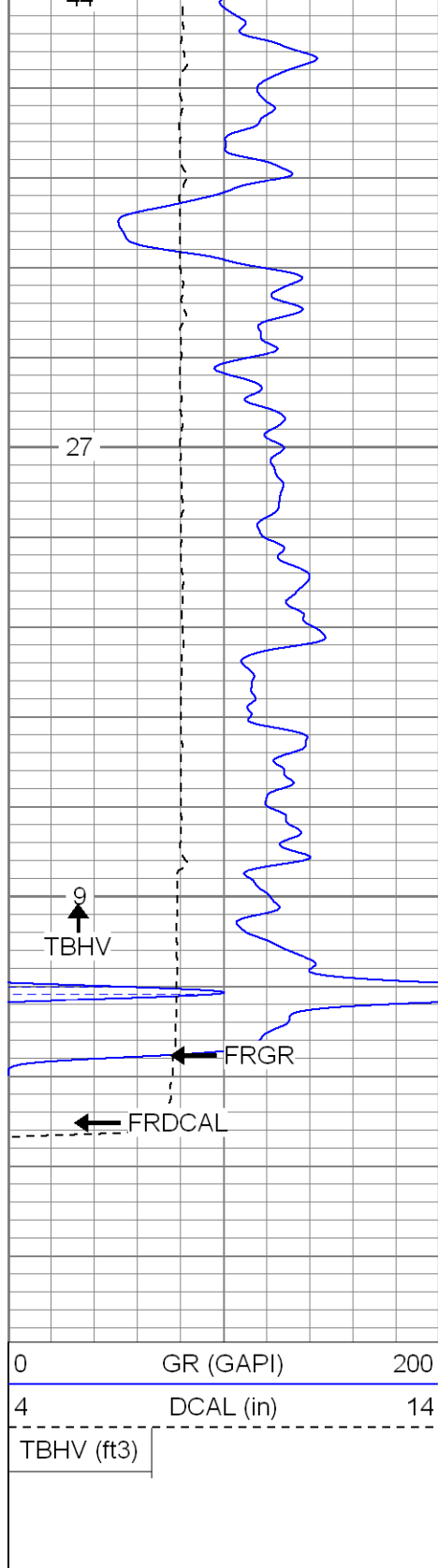












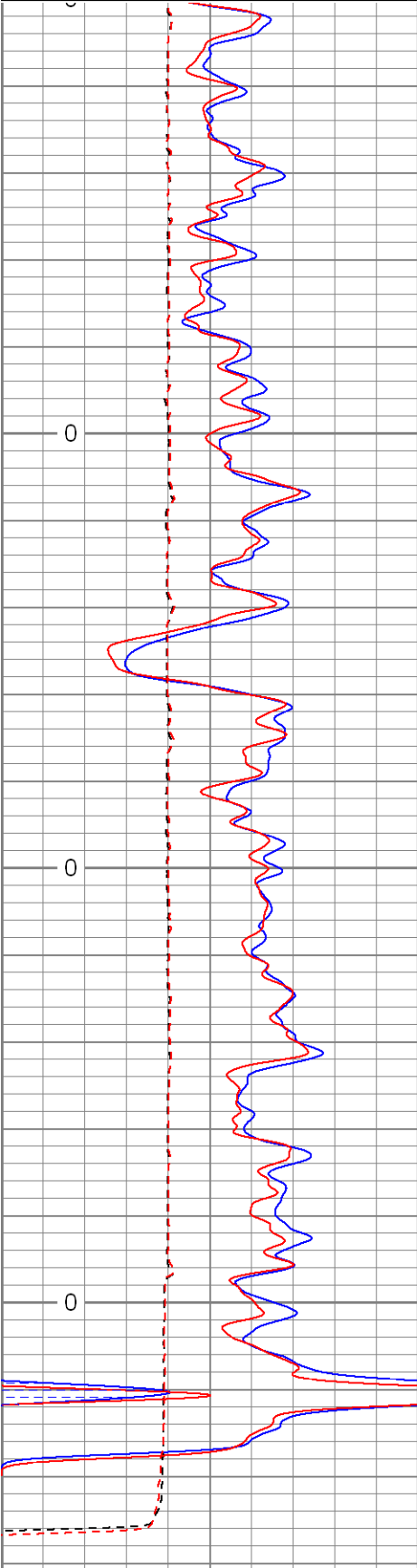
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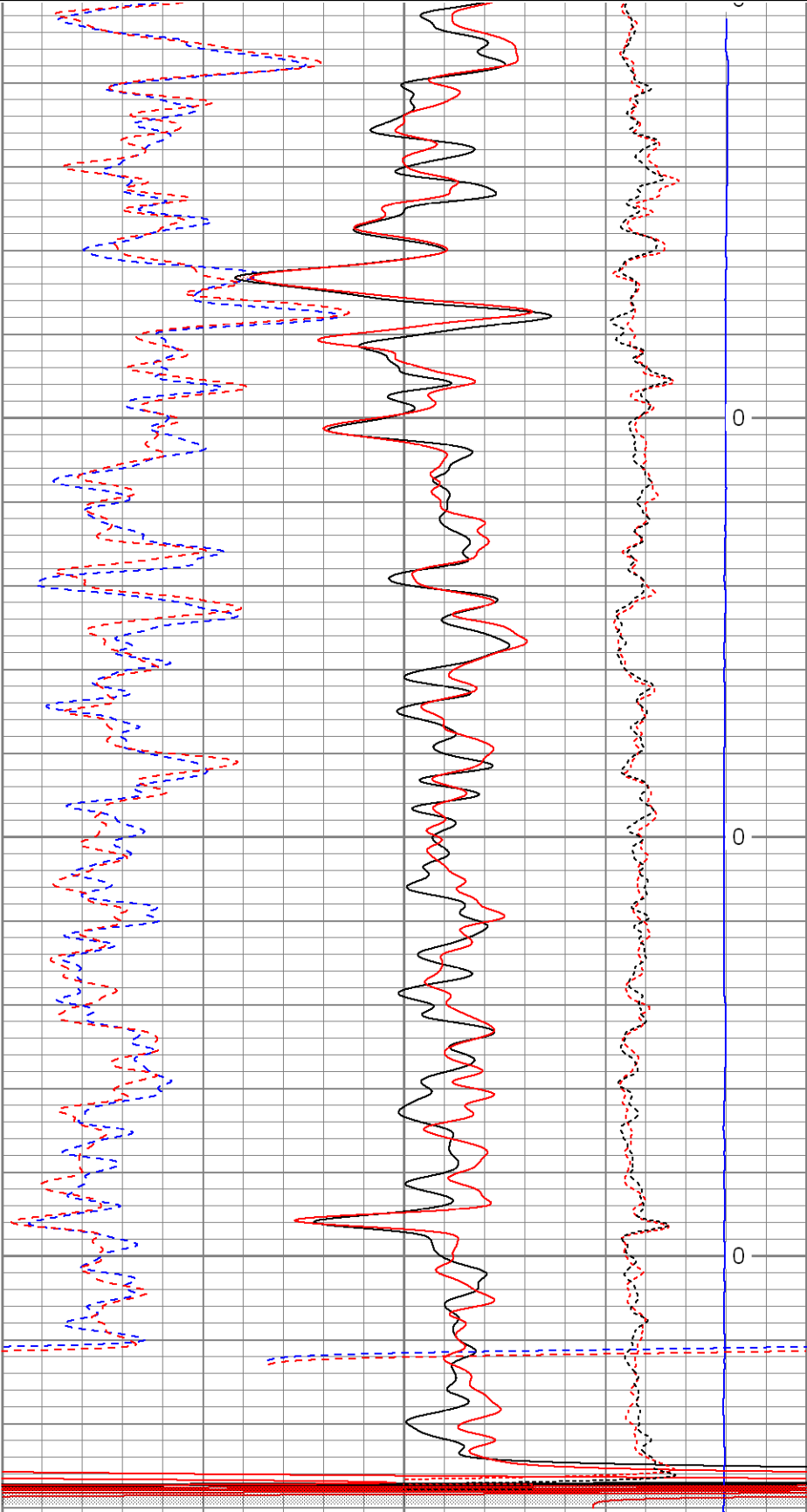
Repeat Pass

Database File: xtone2504.db
Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Thu Jun 26 14:26:53 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
4	DCAL (in)	14
0	GR-repeat (GAPI)	200
4	DCAL-repeat (in)	14
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)		



0	GR (GAPI)	200	30	NPOR (pu)	-10
4	DCAL (in)	14	30	DPOR (pu)	-10
0	GR-repeat (GAPI)	200	30	NPOR-repeat (pu)	-10
4	DCAL-repeat (in)	14	30	DPOR-repeat (pu)	-10
TBHV (ft3)			-0.5	RHOC (g/cc)	0.5
			7000	LTEN (lb)	0
			-0.5	RHOC-repeat (g/cc)	0.5
				ABHV (ft3)	



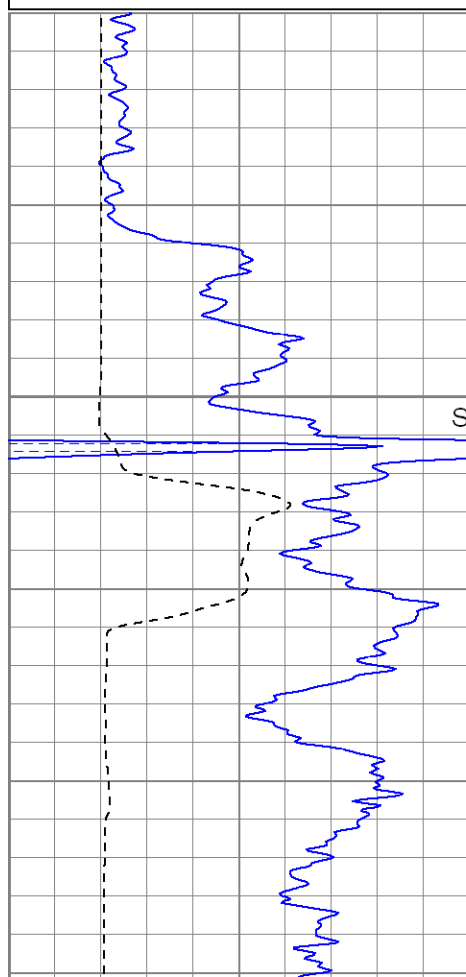
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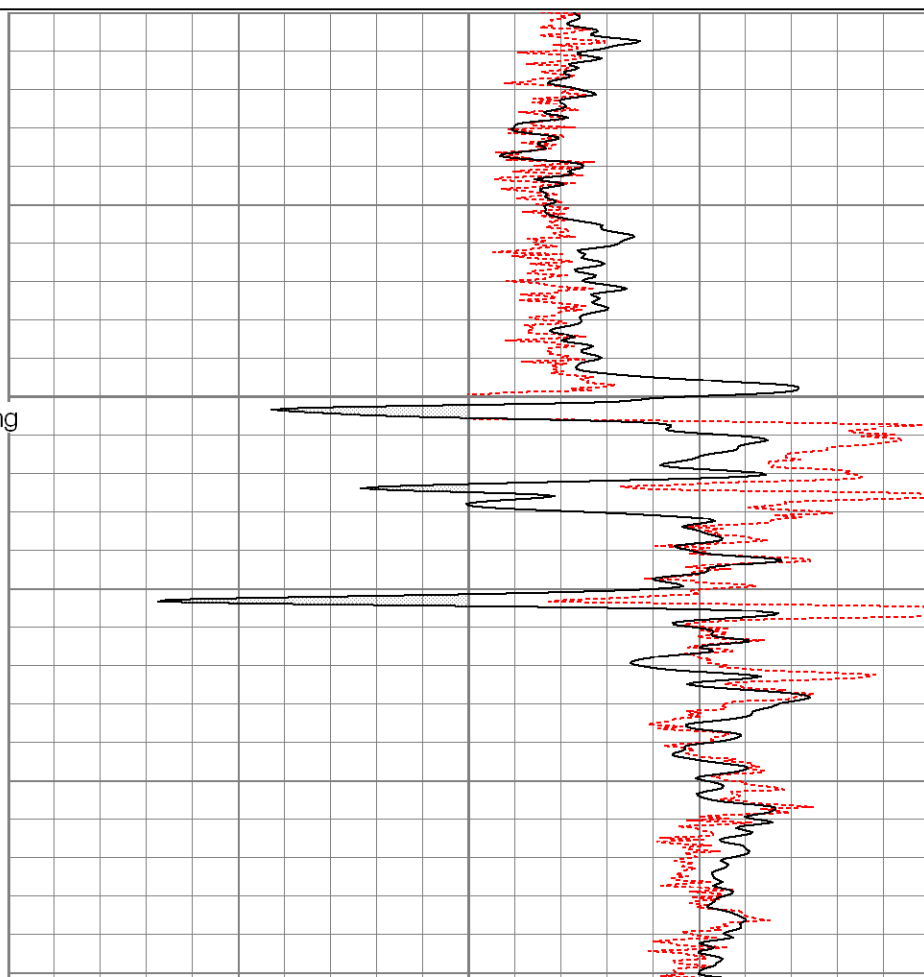
High Resolution Pass

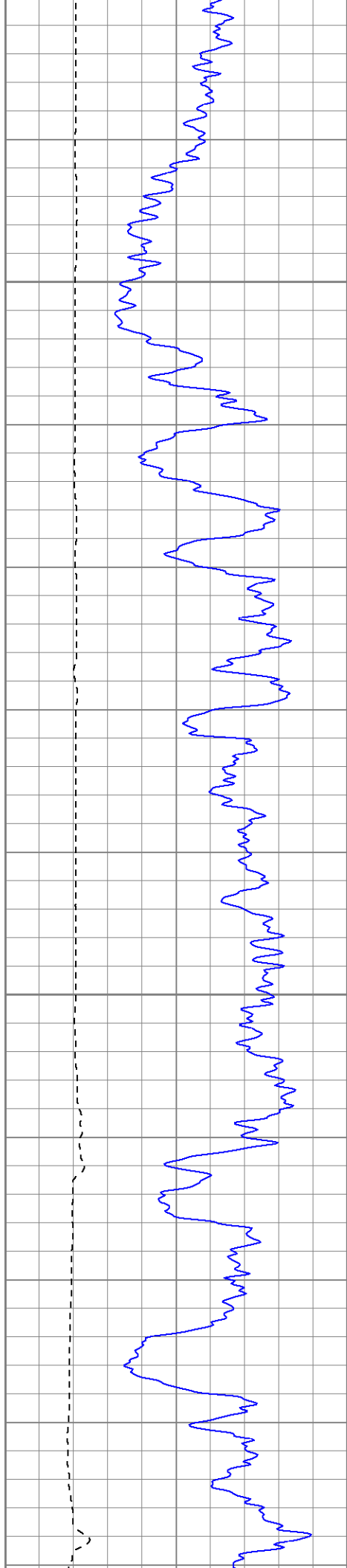
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Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Sat Jun 28 09:46:08 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

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



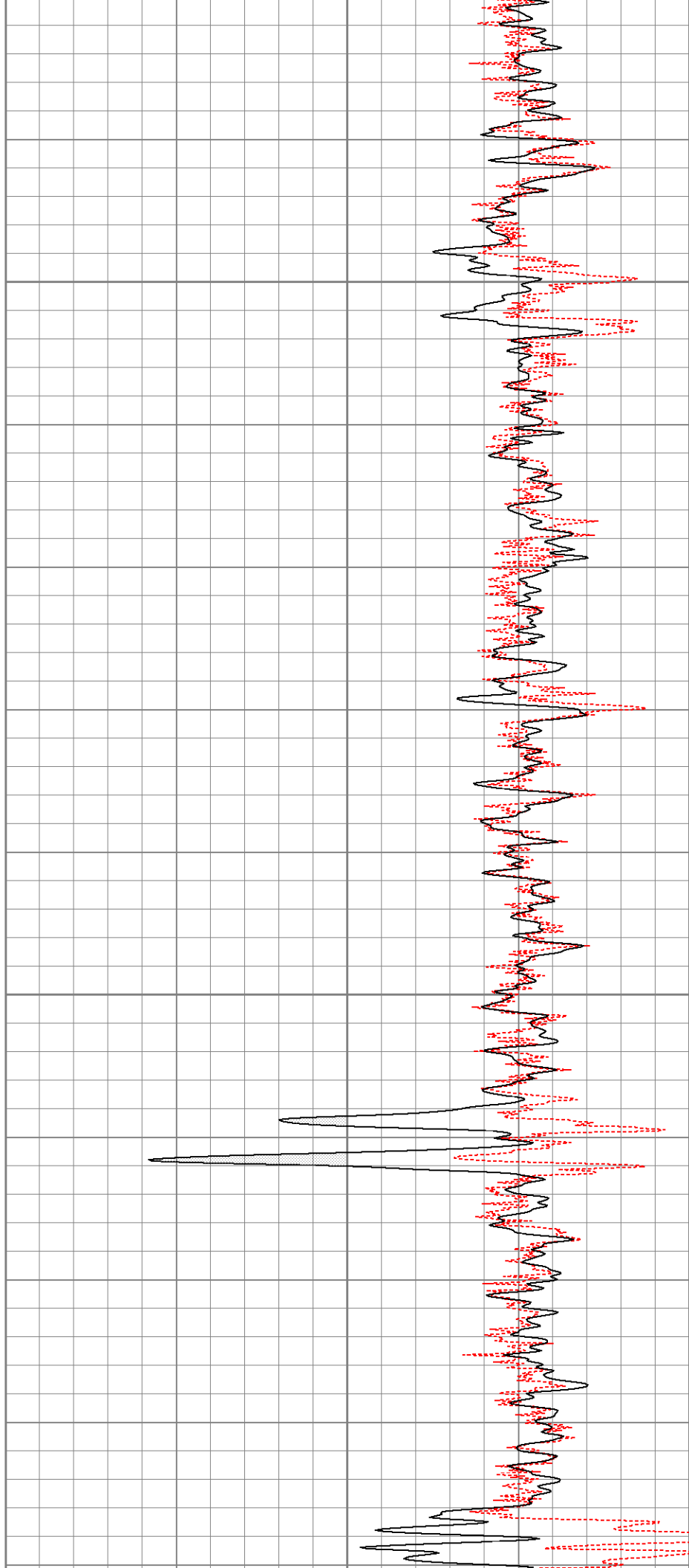
900
Surface Casing

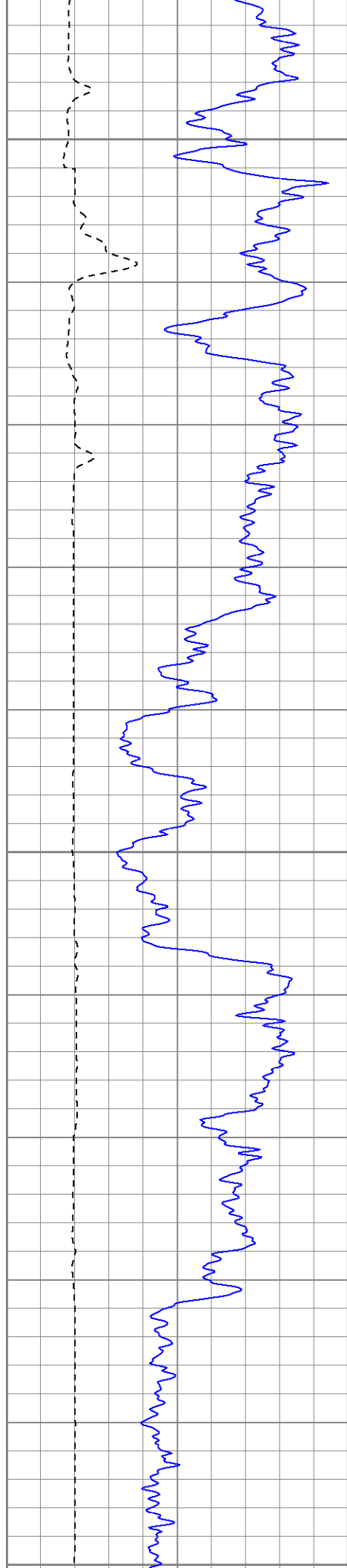




950

1000

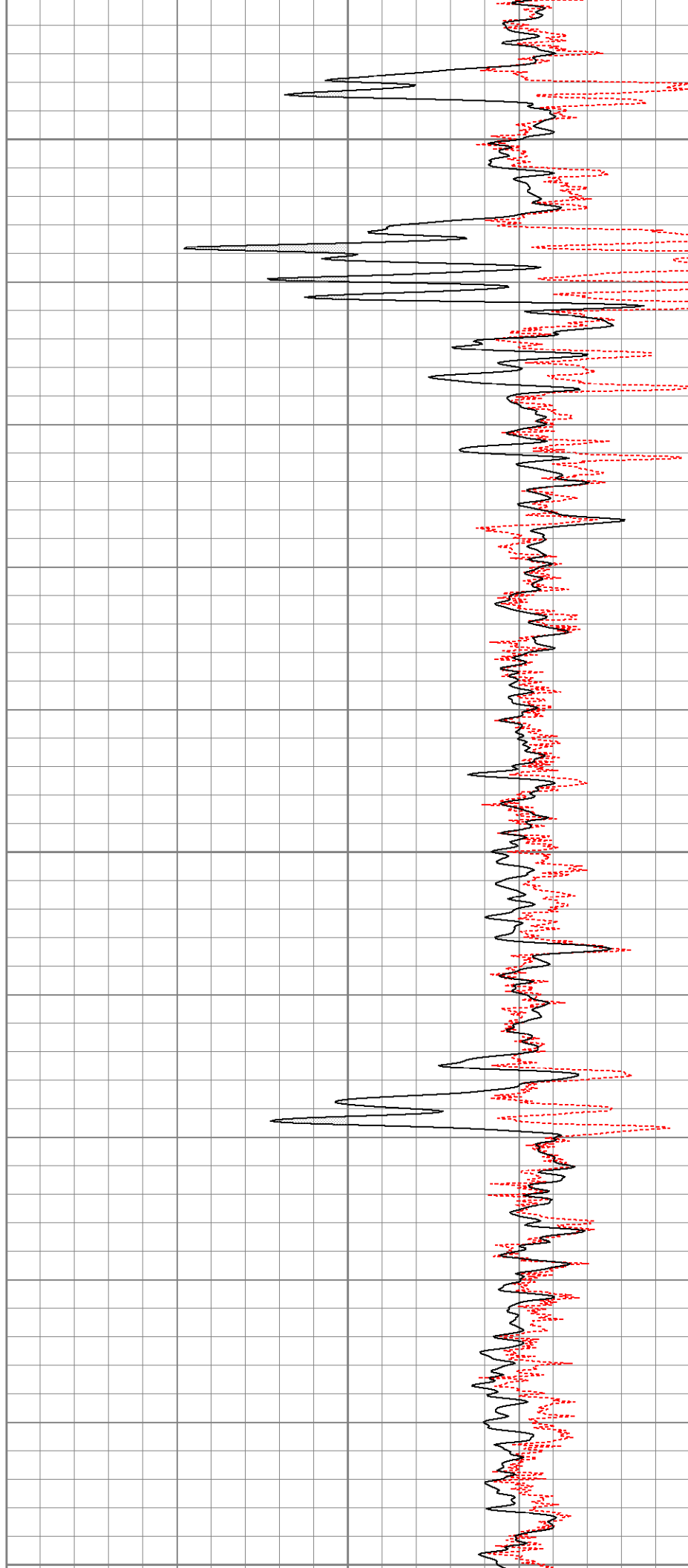




1050

1100

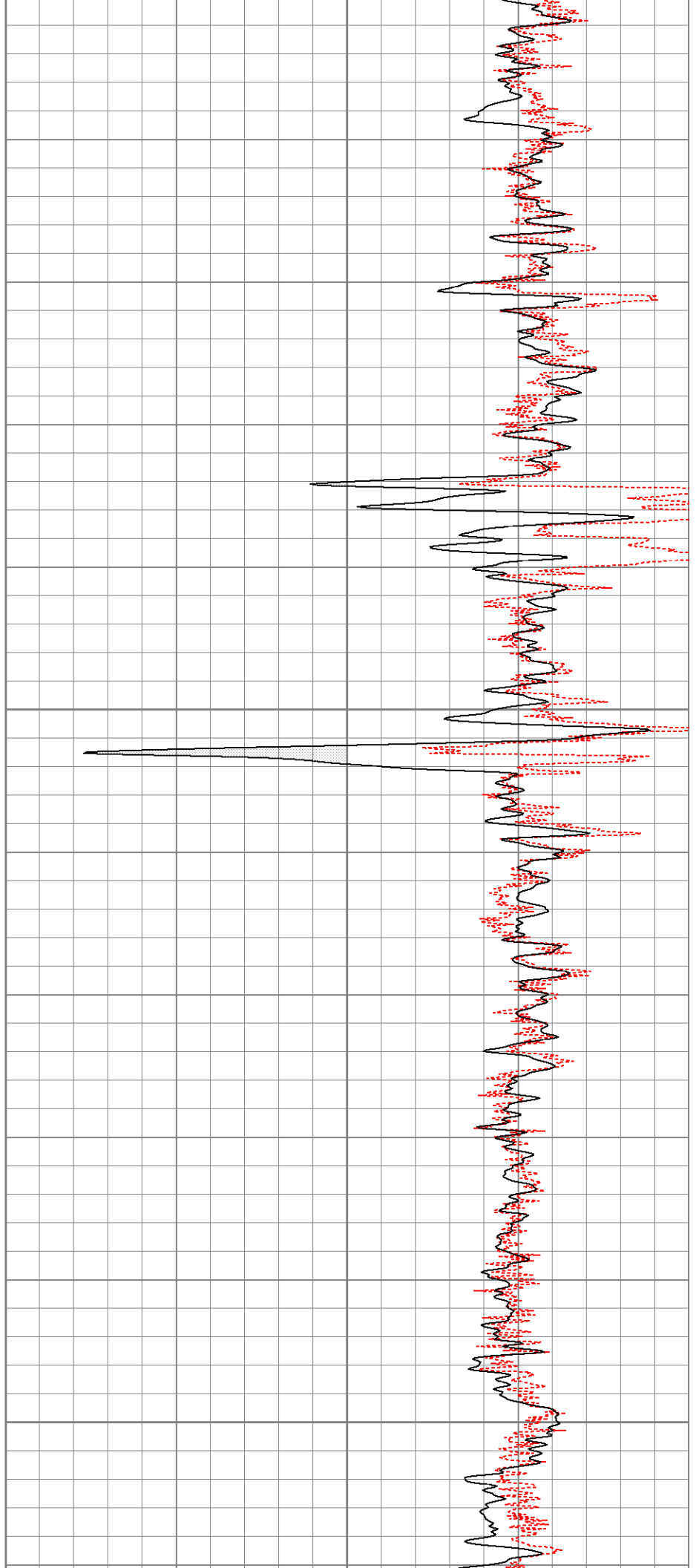
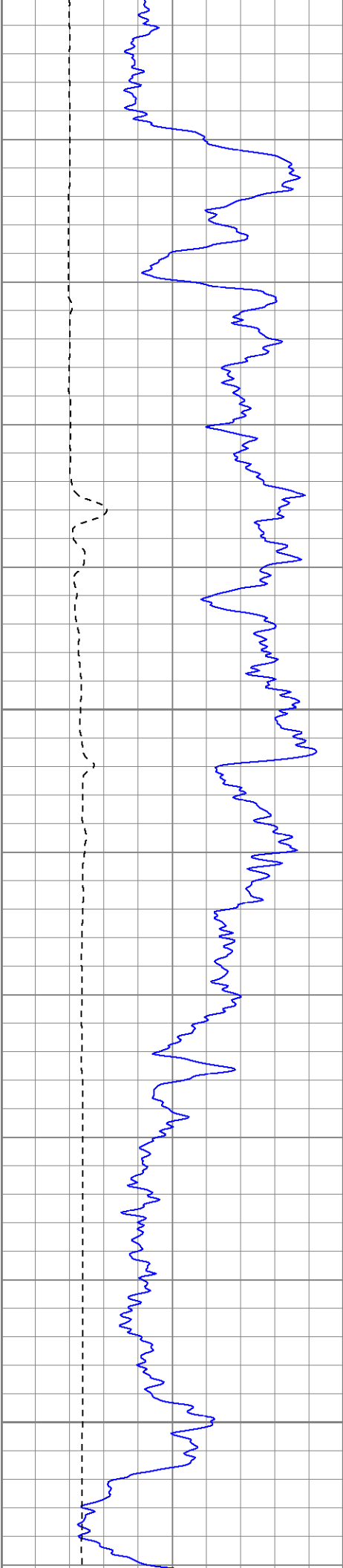
1150

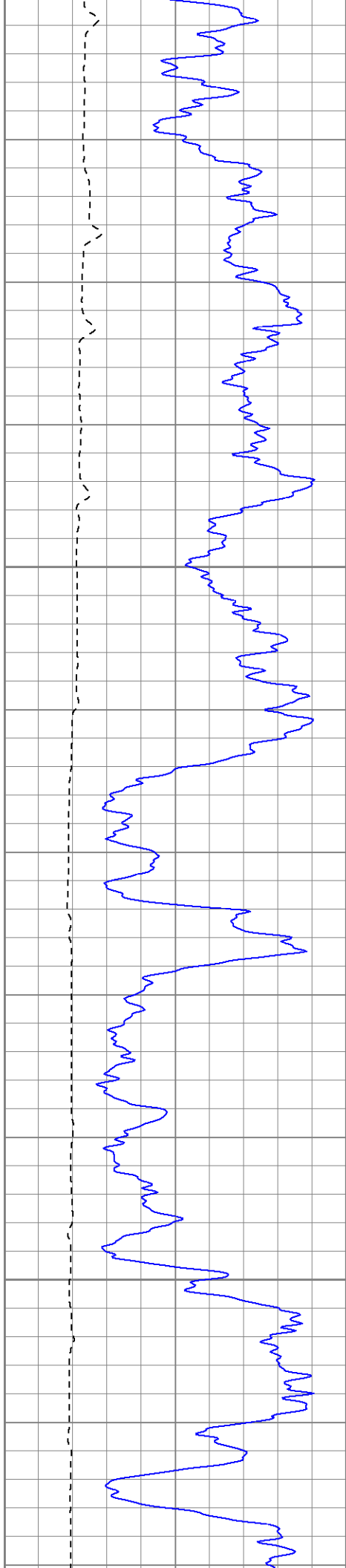


1100

1200

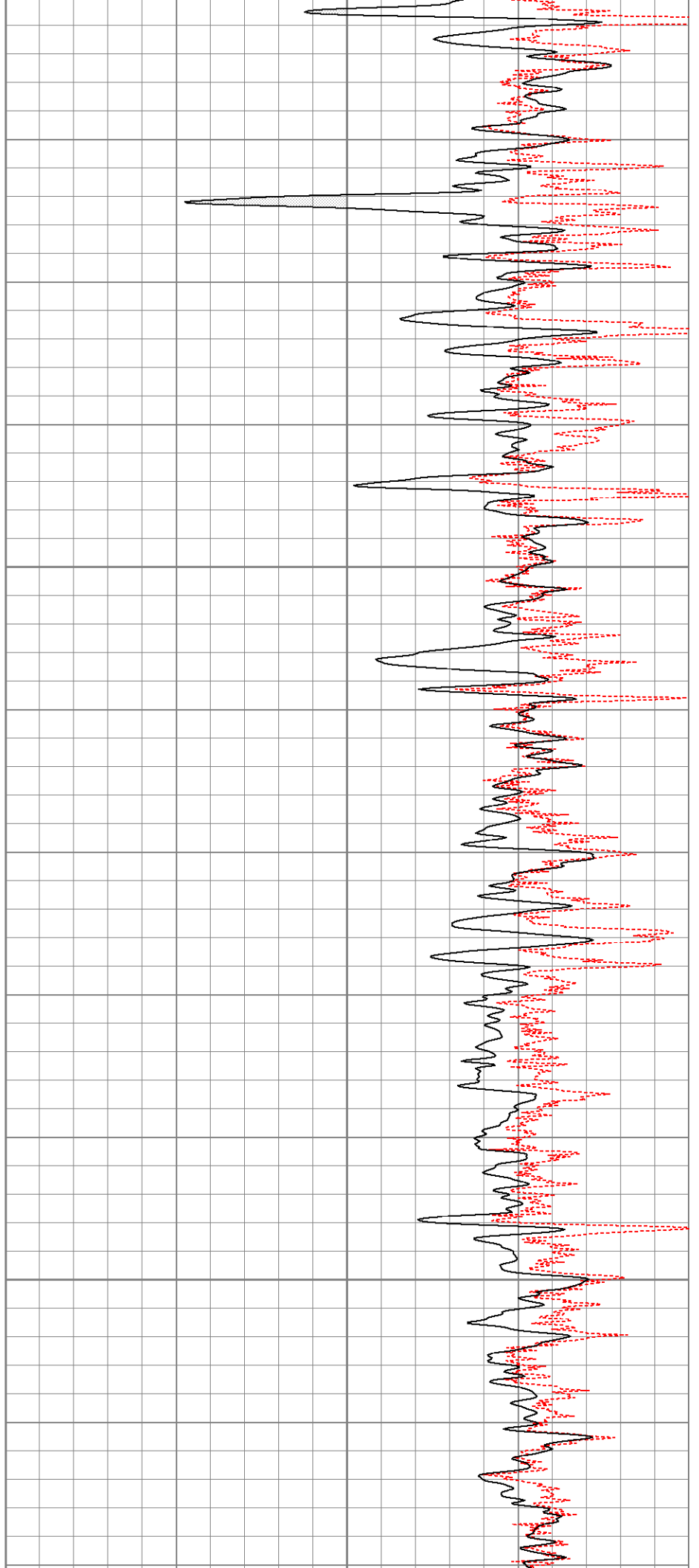
1250

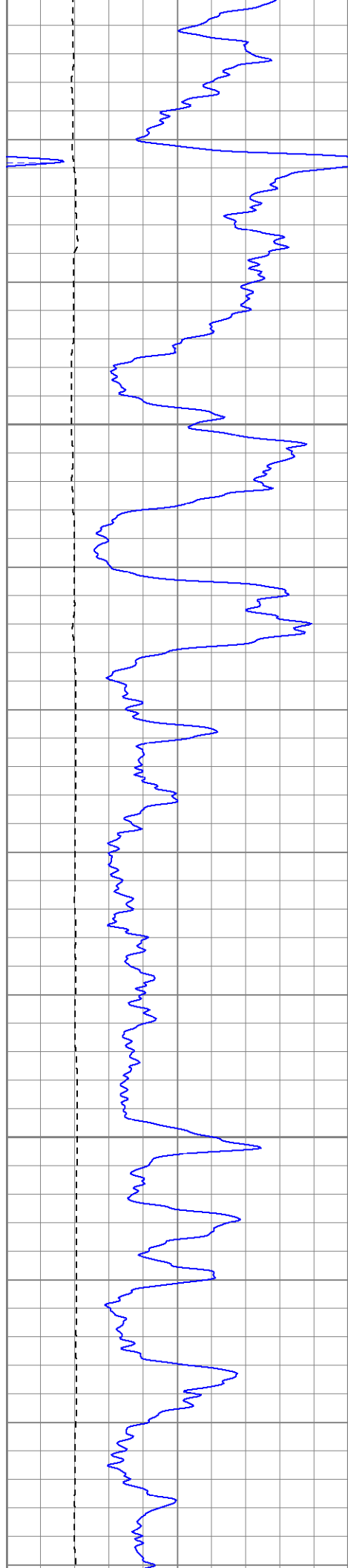




1300

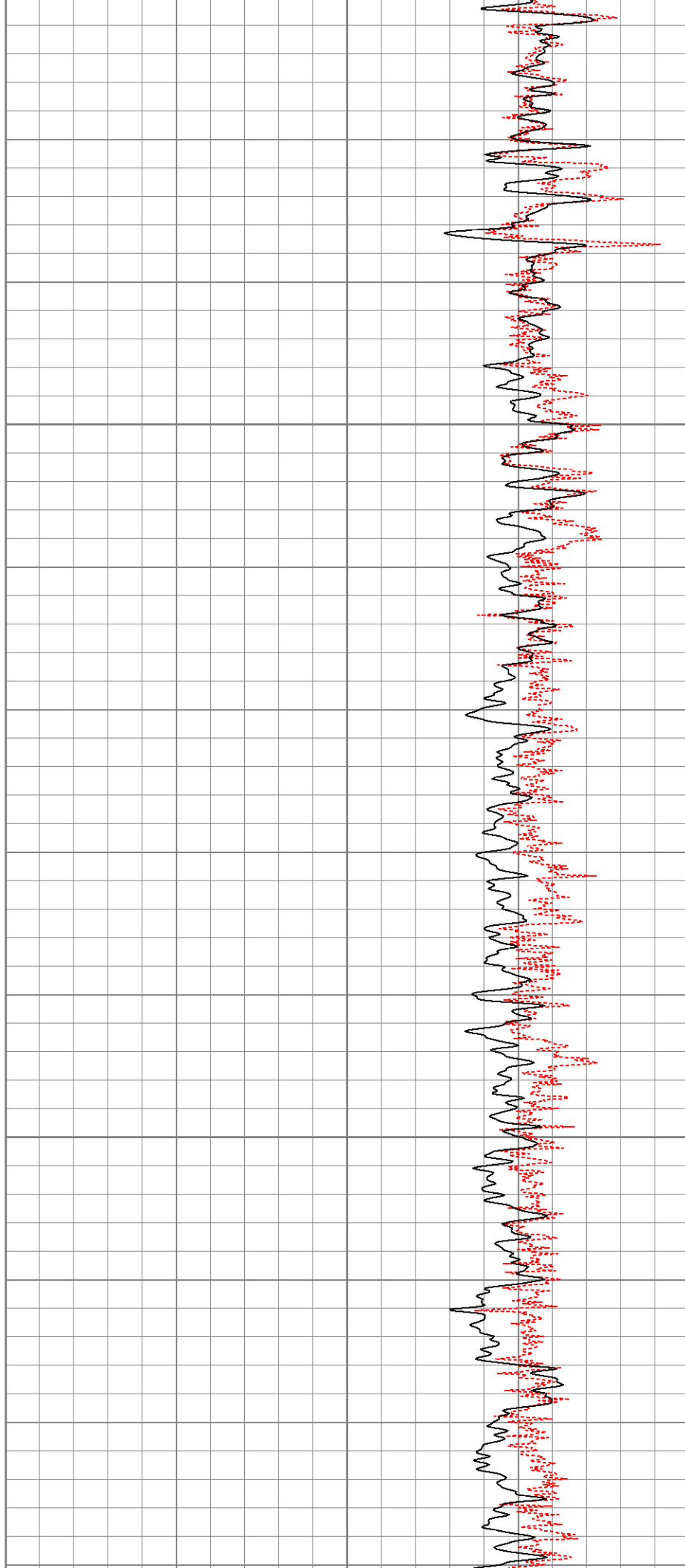
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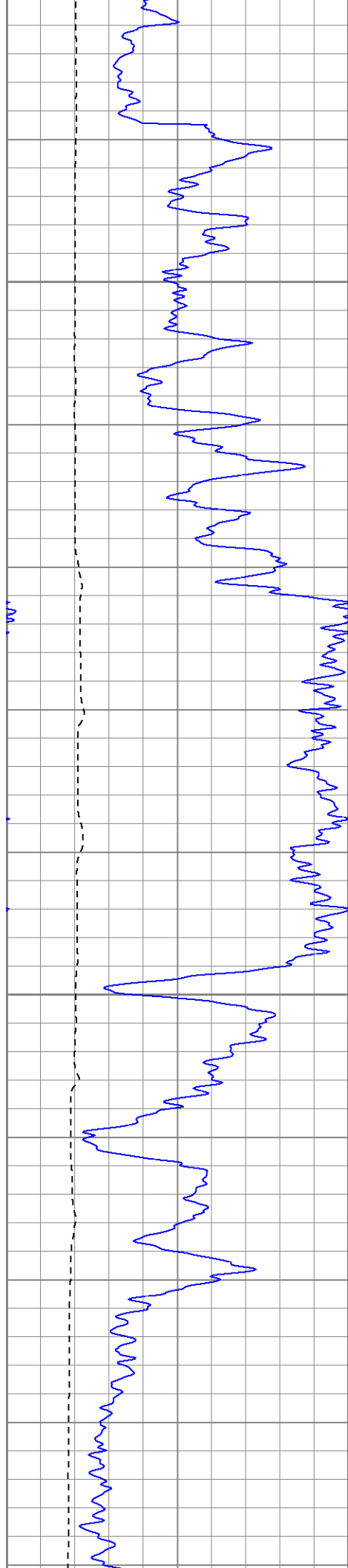




1400

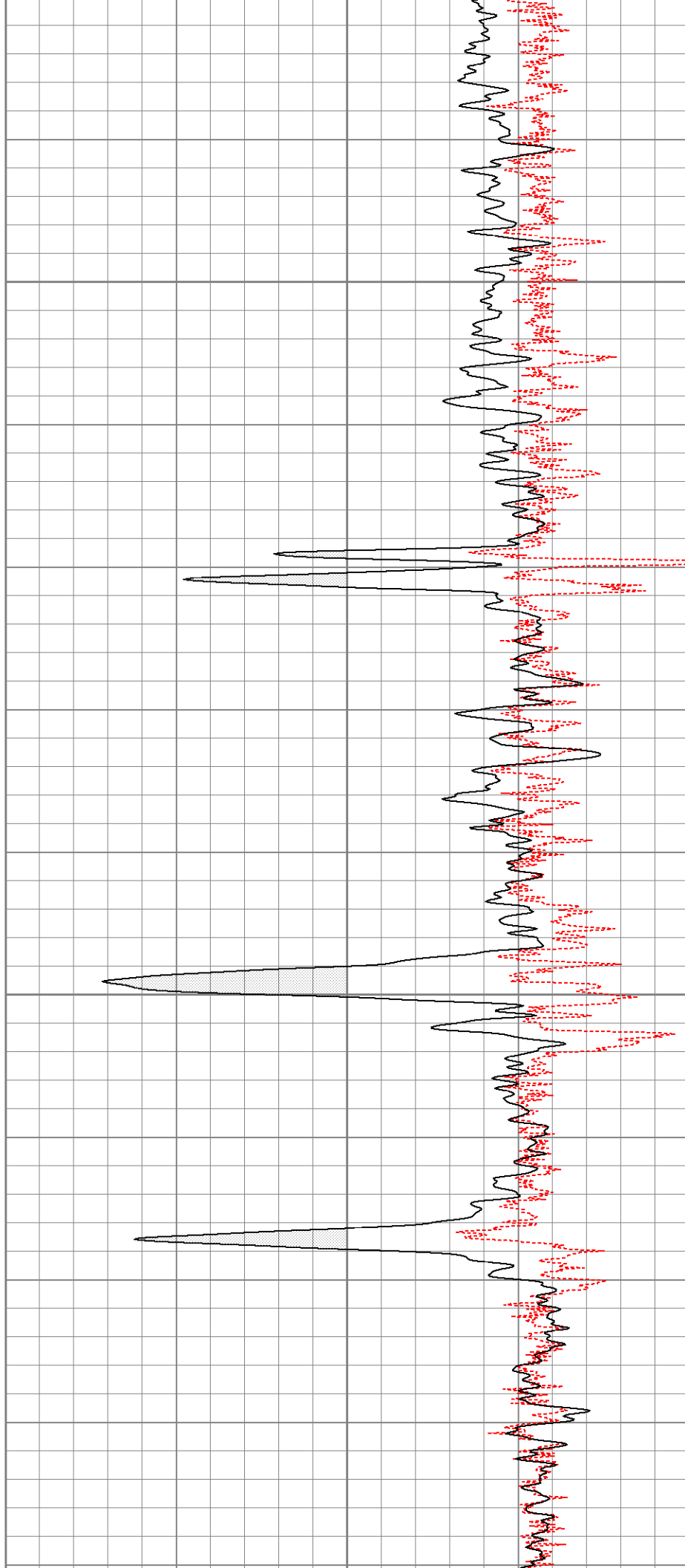
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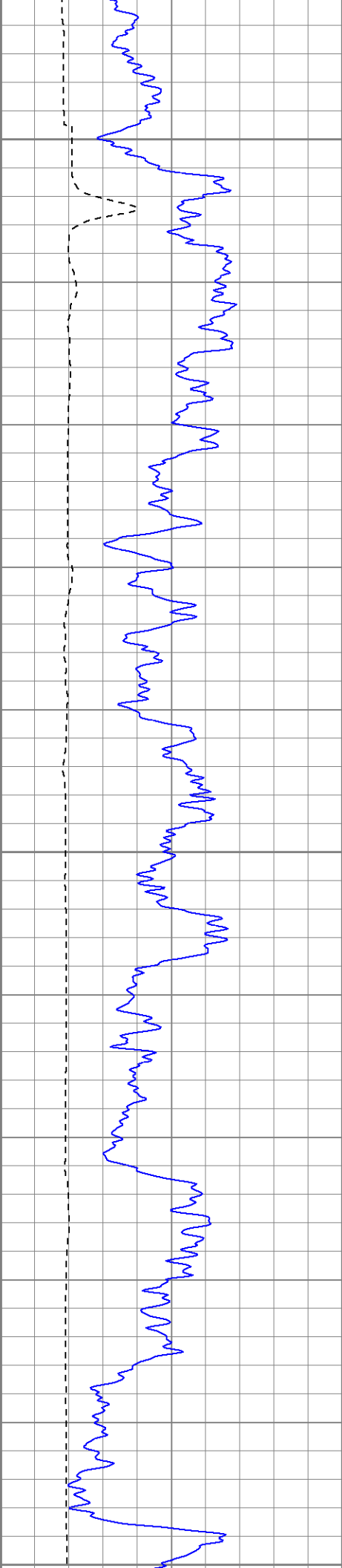




1500

1550

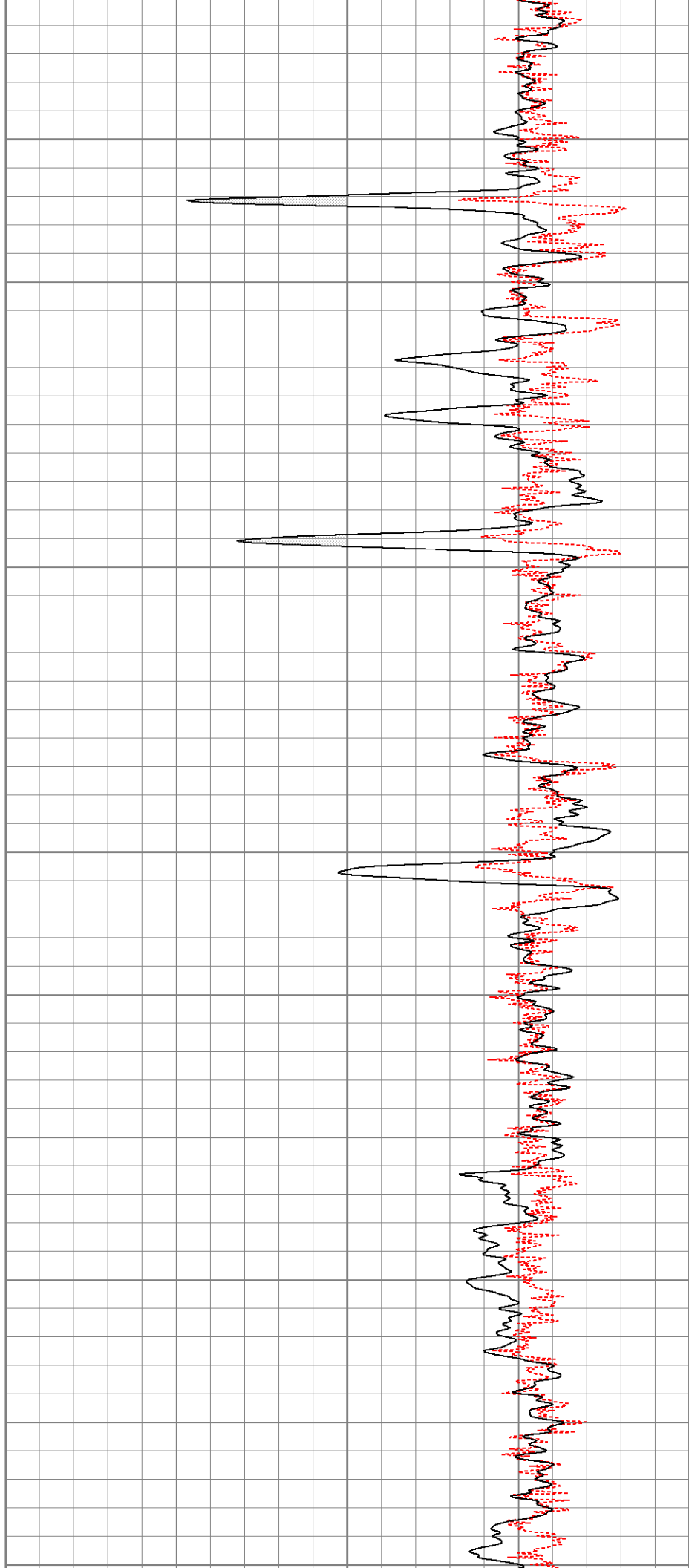




1600

1650

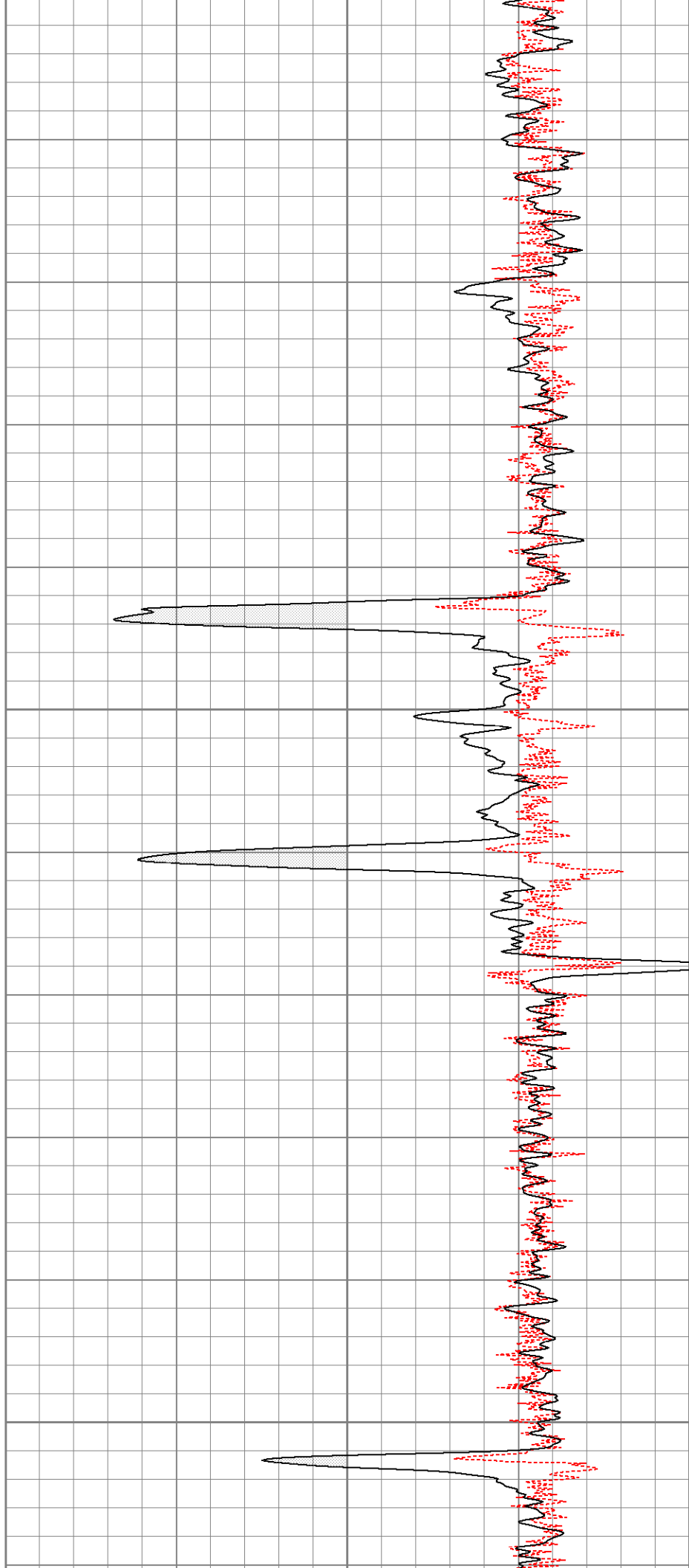
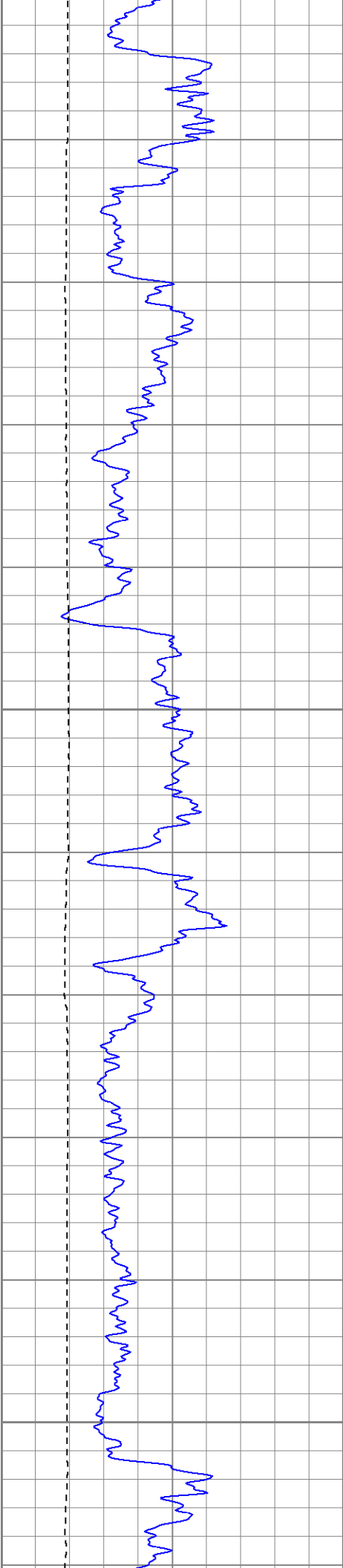
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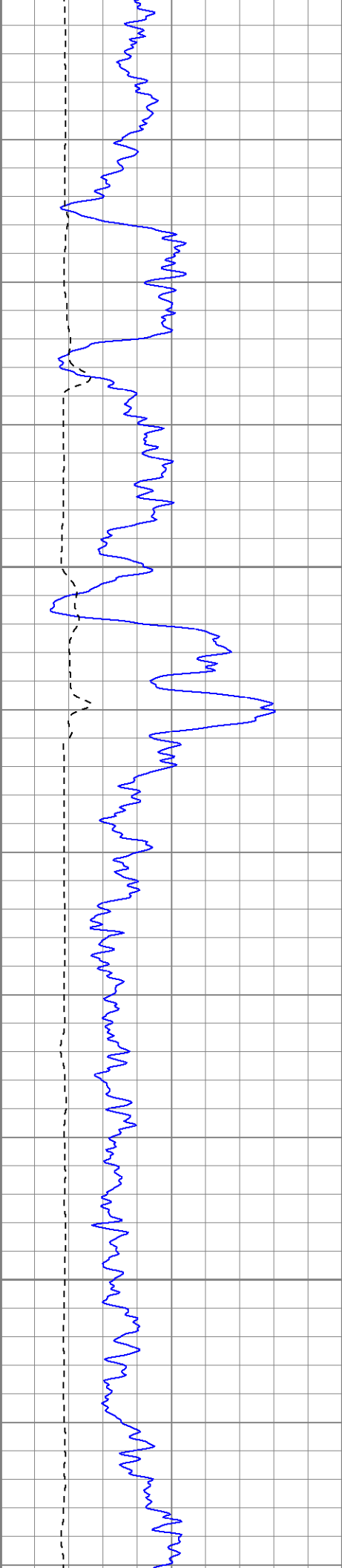


1700

1750

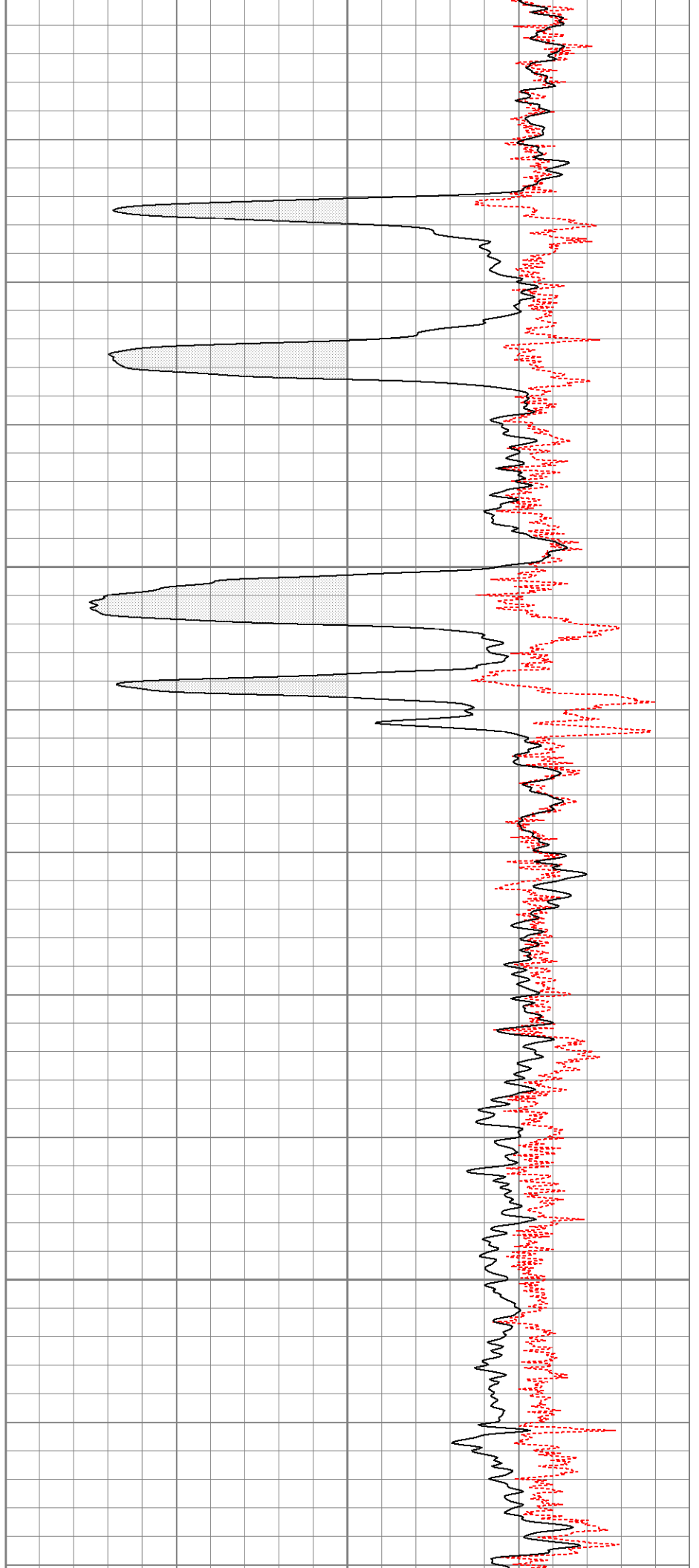
1800

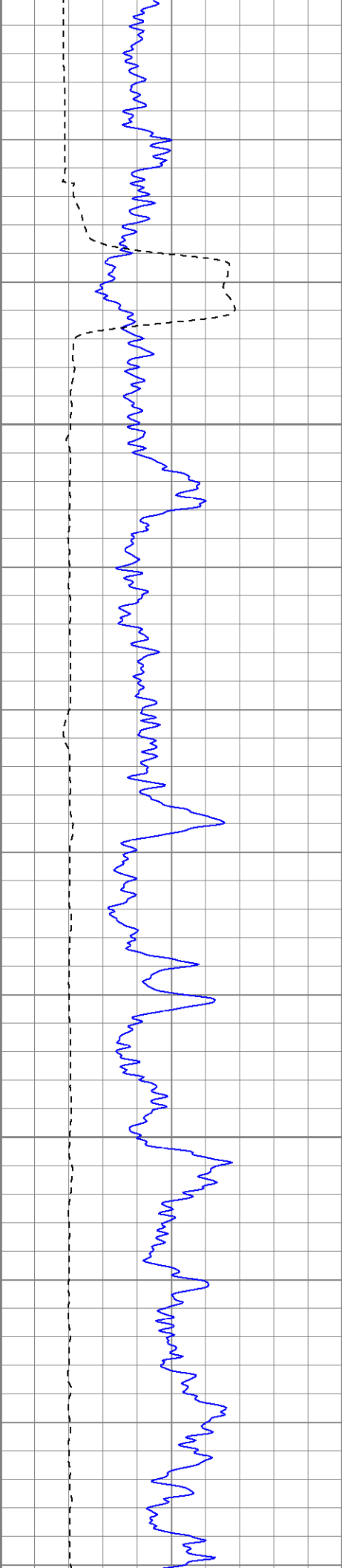




1850

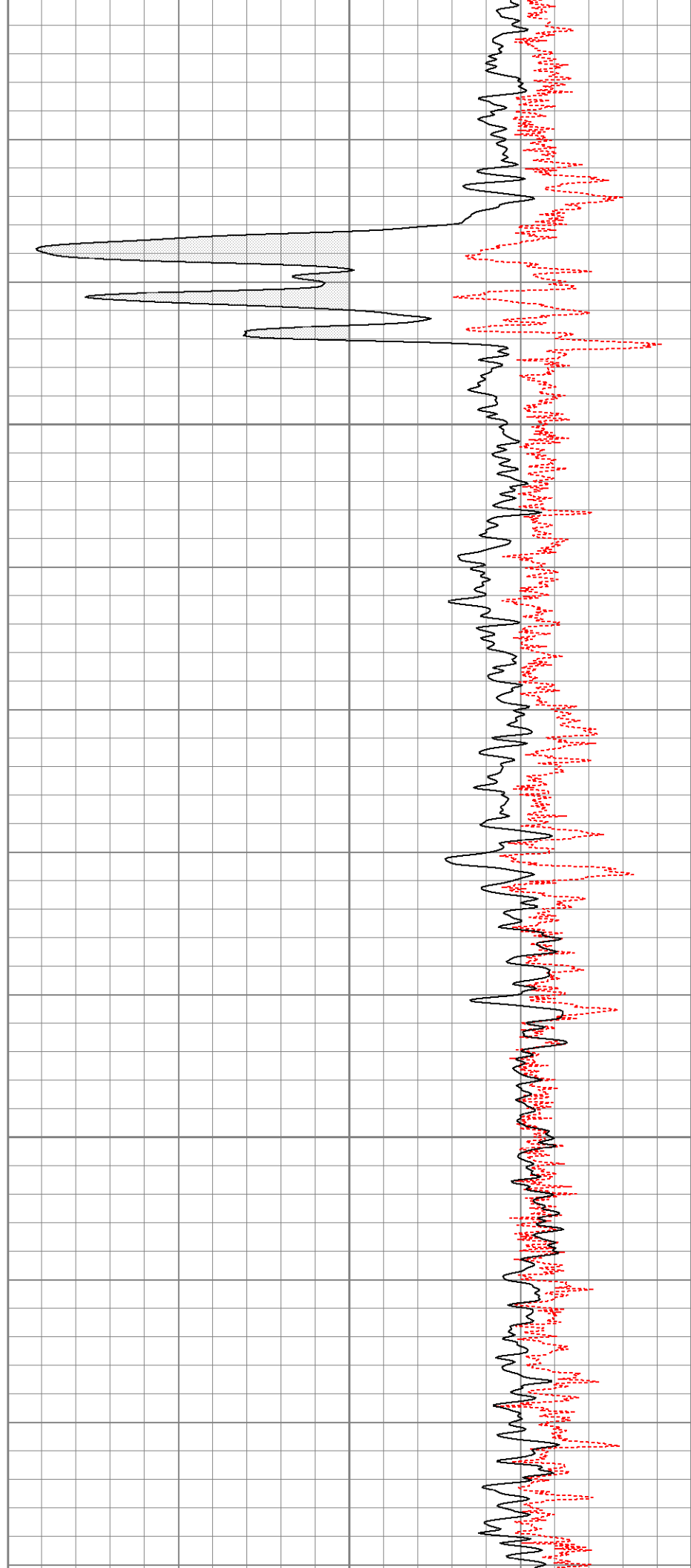
1900

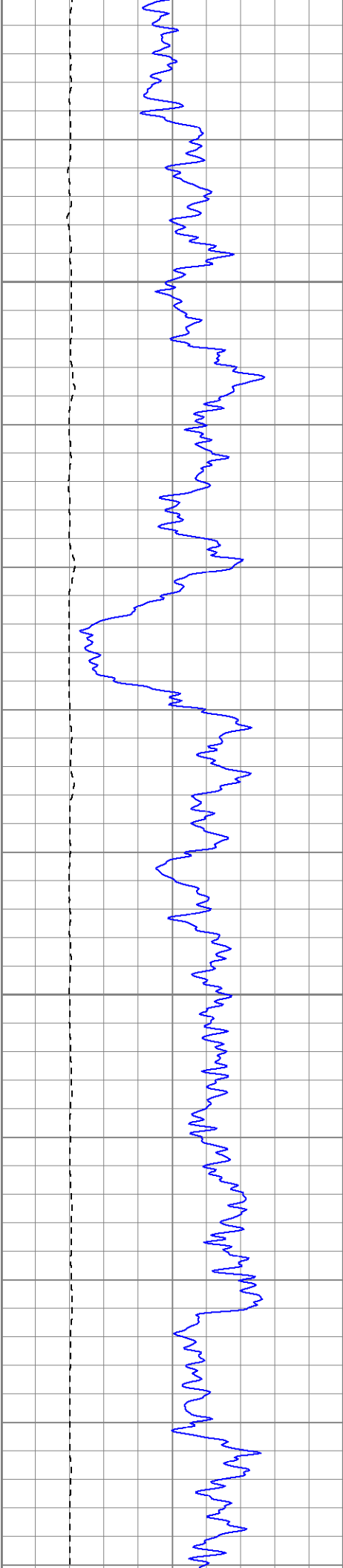




1950

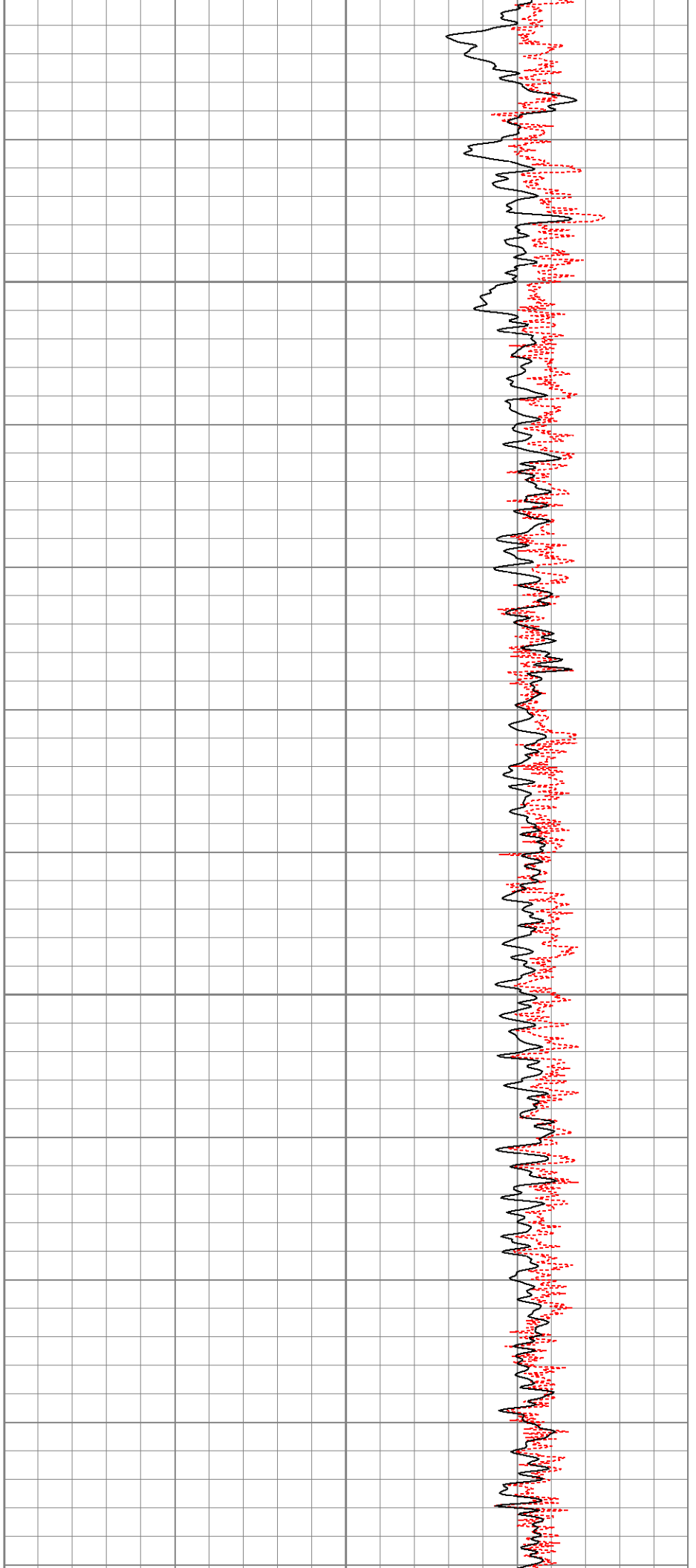
2000

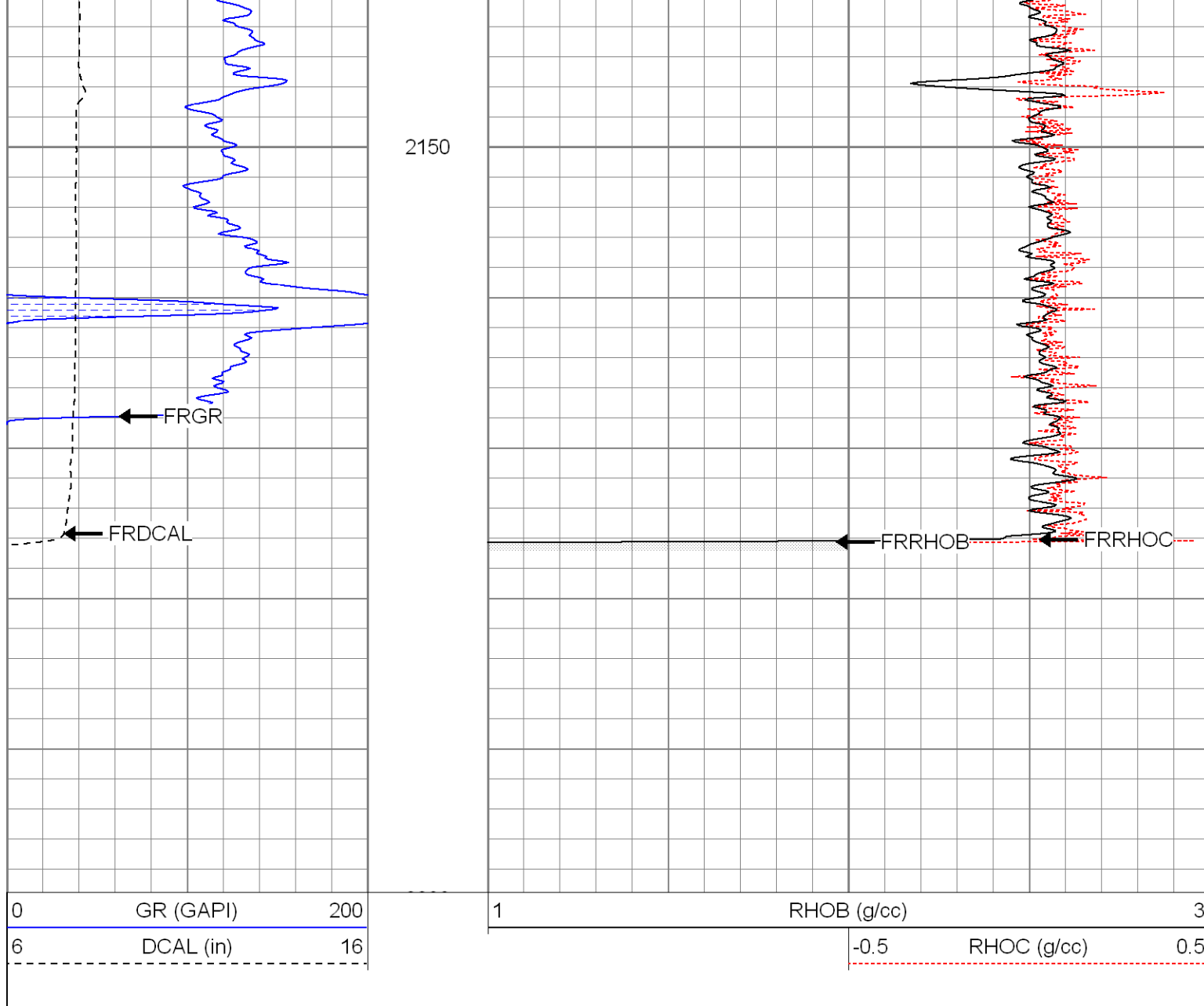




2050

2100





Calibration Report

Database File: xtone2504.db
 Dataset Pathname: pass1
 Dataset Creation: Thu Jun 26 13:44:12 2008 by Log Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: 080522-Probe
 Surface Cal Performed: Wed Jun 04 14:22:17 2008
 Downhole Cal Performed: Thu Jun 12 12:12:50 2008
 After Survey Verification Performed: Thu Jun 12 12:12:50 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.006	0.647	V	0.000	400.000	mmho-m	623.790	-3.739
Medium	0.014	0.754	V	0.000	464.000	mmho-m	627.128	-8.884
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.648	V	0.000	400.000	mmho-m	624.783	-4.587
Medium	0.013	0.754	V	0.000	464.000	mmho-m	626.379	-8.017

Downhole Calibration			Readings		References		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	2.604	402.452	mmho-m	0.841	400.206	mmho-m	0.999	-1.760
Medium	1.030	462.308	mmho-m	-0.857	463.698	mmho-m	1.007	-1.894
LL3		7.405	V		1500.000	Ohm-m		
		-0.005	V		20.000	Ohm-m		
		-7.230	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2118-poilex
 Source / Verifier: /
 Master Calibration Performed: Wed Jun 04 14:20:01 2008

Master Calibration


	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	392.00	385.00	cps
Aluminum	2.590	g/cc	93.00	275.00	cps
Spine Angle = 76.84			Density/Spine Ratio = 0.596		
	Size		Reading		
Small Ring	8.80	in	4.39	V	
Large Ring	14.00	in	8.28	V	

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Wed Jun 04 09:52:45 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: 5145
 Tool Model: G
 Performed: Wed Jun 25 15:29:02 2008
 Calibrator Value: 1200 NAPI
 Calibrator Reading: 1700 cps
 Sensitivity: 0.705882 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.73		None	0.75	1.50	5.00
			NEU-G (5145) Gearhart Epithermal	5.65	3.50	85.00
			GB OH (2001)	3.56	3.25	40.00

[illegible]