



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 32-04
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09140 00

487' FNL & 74' FWL

DIL

SEC 32 TWP 33S RGE 67W

Permanent Datum	Ground Level	Elevation	7501'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B. -----
D.F. -----
G.L. 7501'

Date	7-24-07		
Run Number	One		
Depth Driller	2155'		
Depth Logger	2148'		
Bottom Logged Interval	2131'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 498'		
Casing Logger	496'		
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	8:30 A.M.		
Time Logger on Bottom	11:00 A.M.		
Maximum Recorded Temperature	102 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:
Second Bosque entrance four miles after Weston, first left, first right,
at Y stay right, end on location.

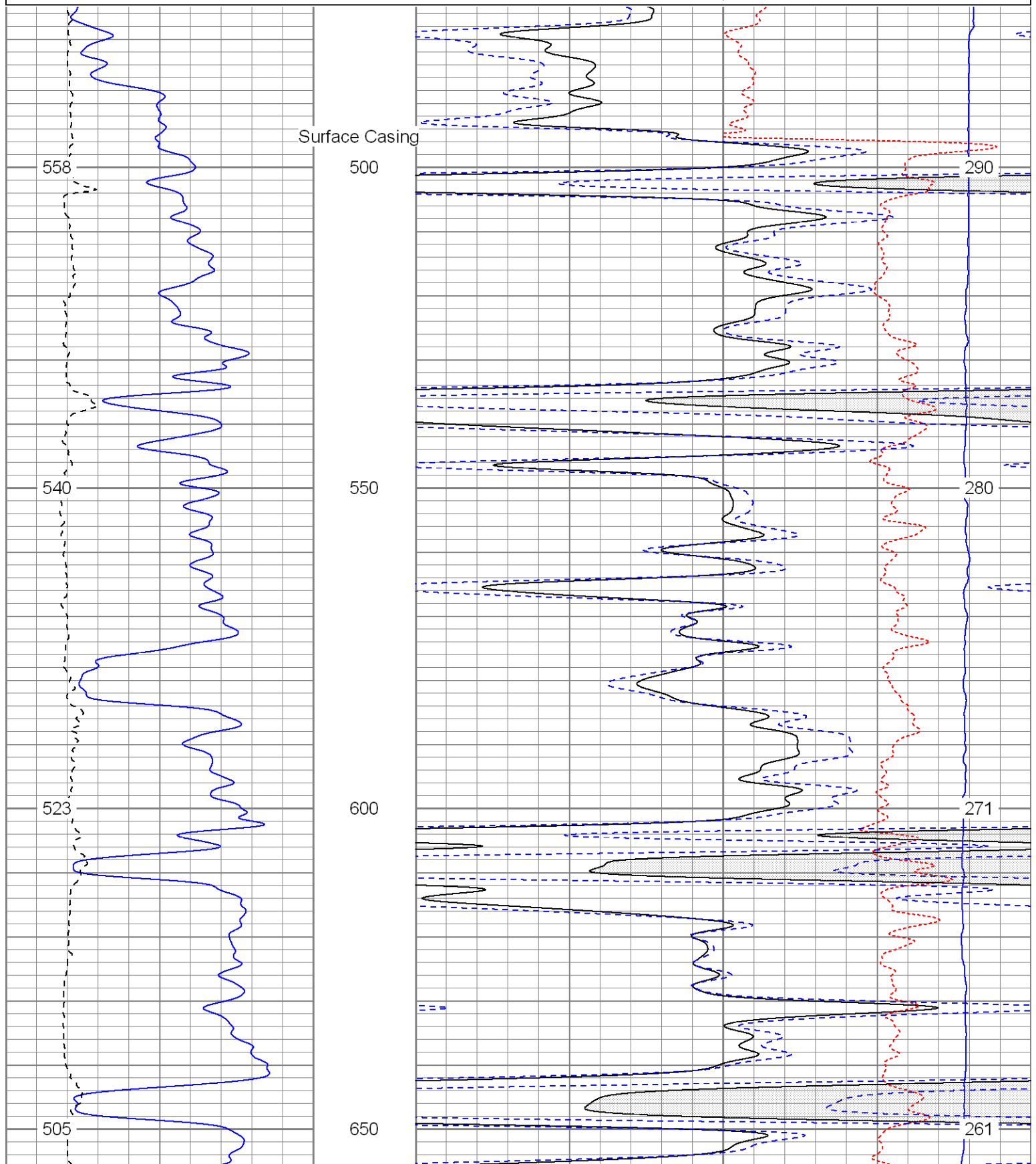


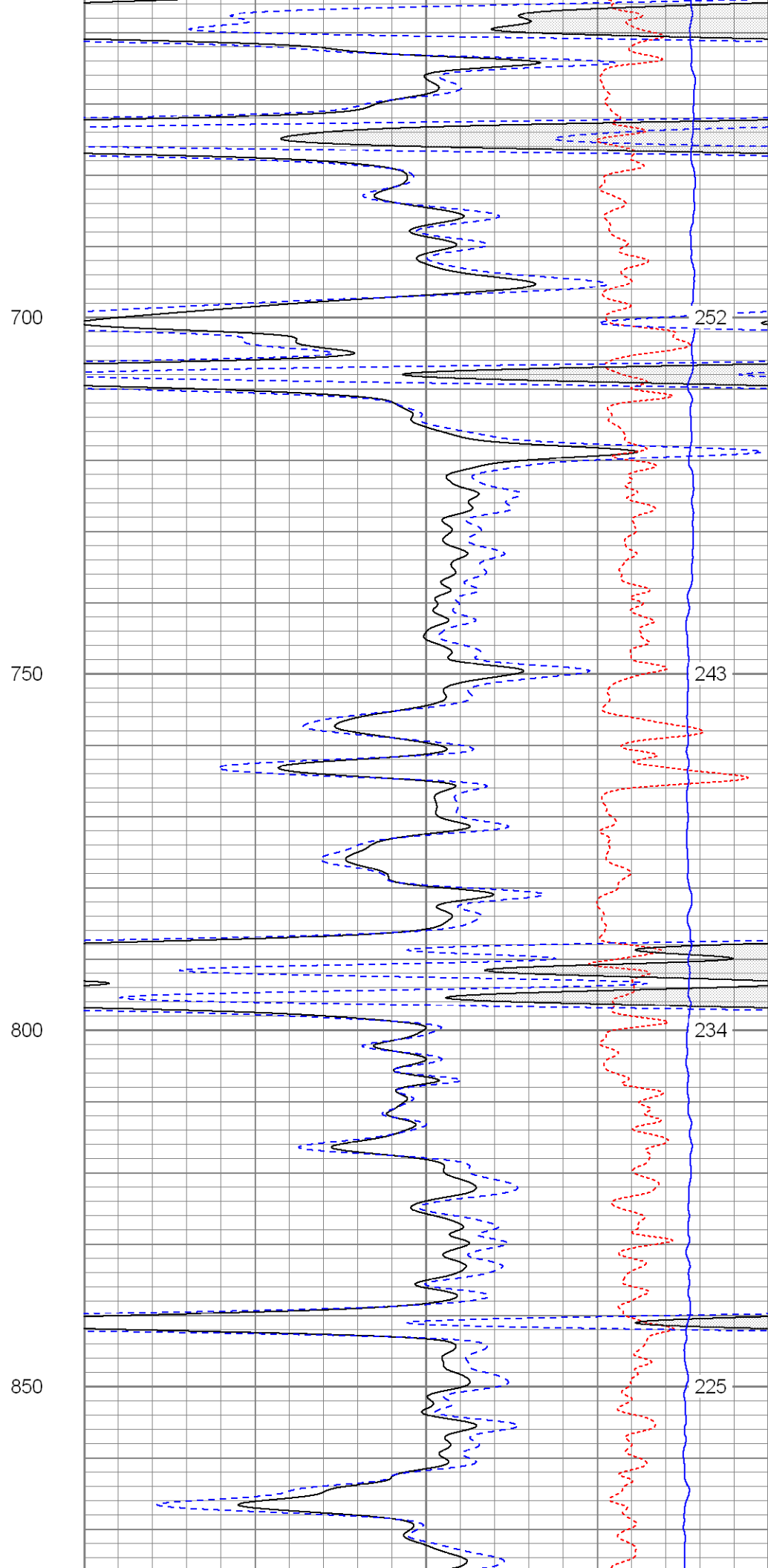
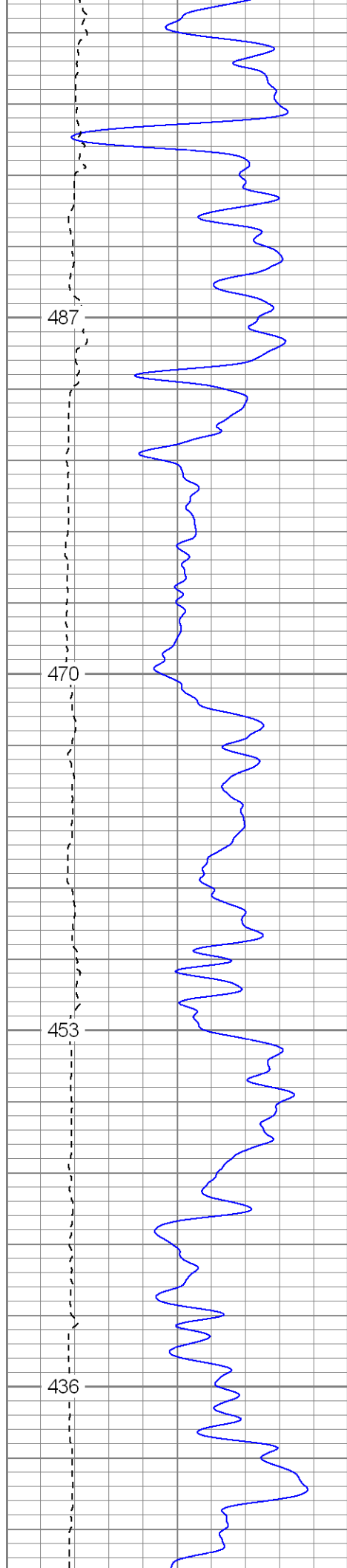
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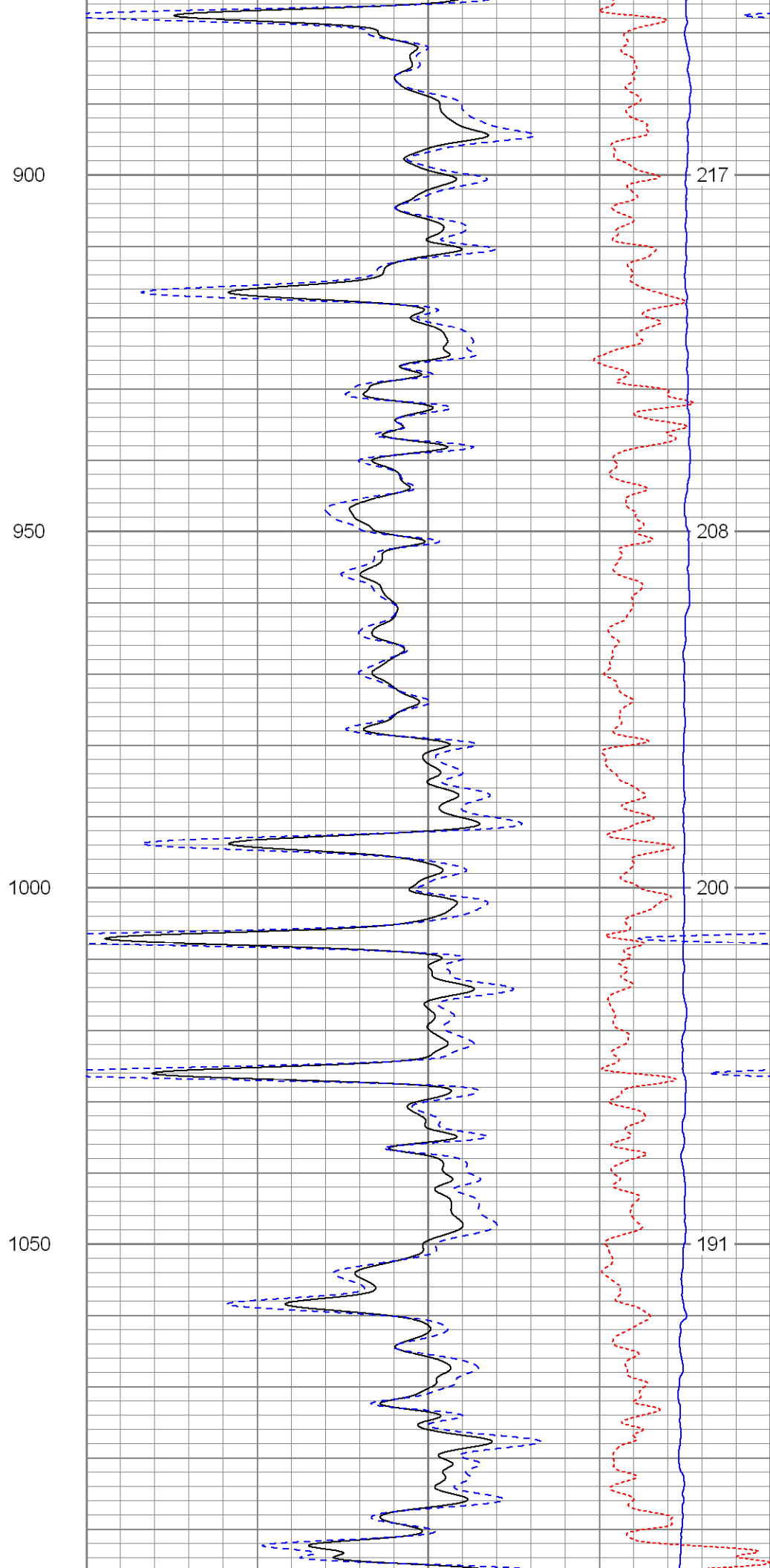
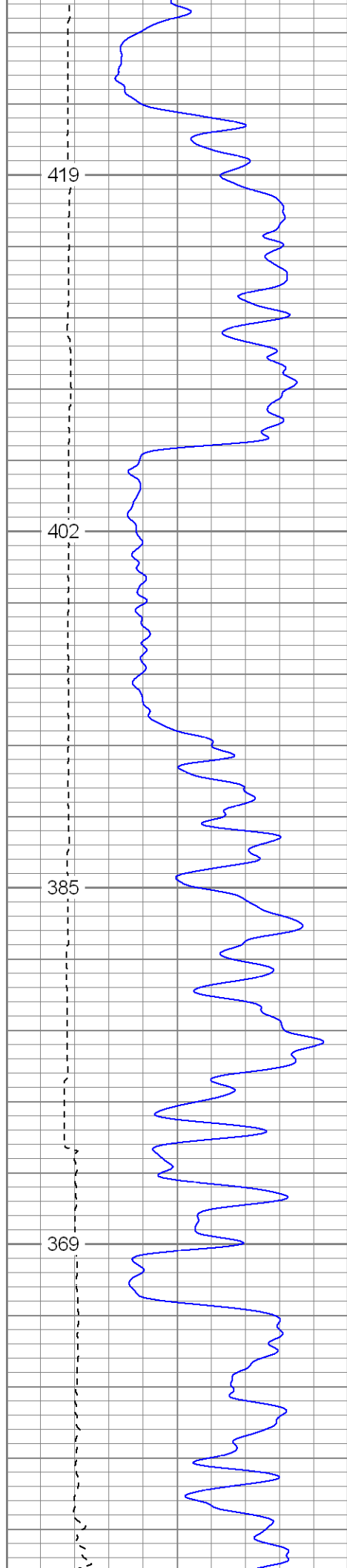
Main Pass

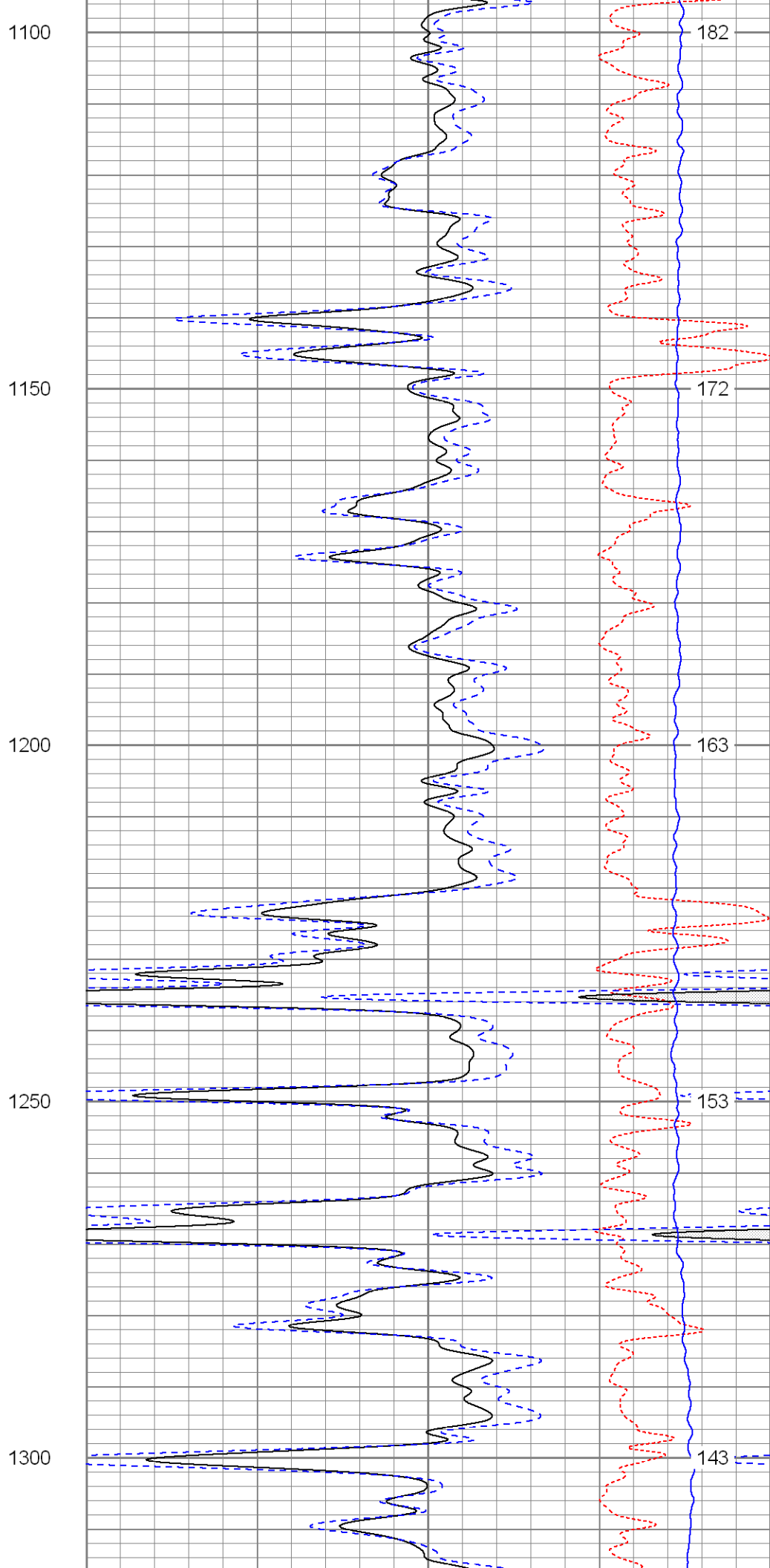
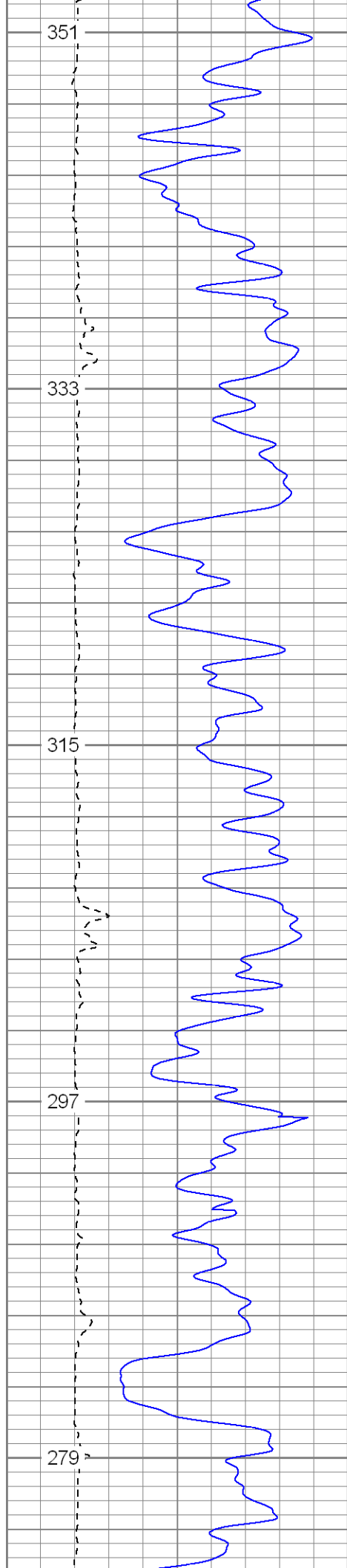
Database File: xtoge3204.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Tue Jul 24 12:22:44 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

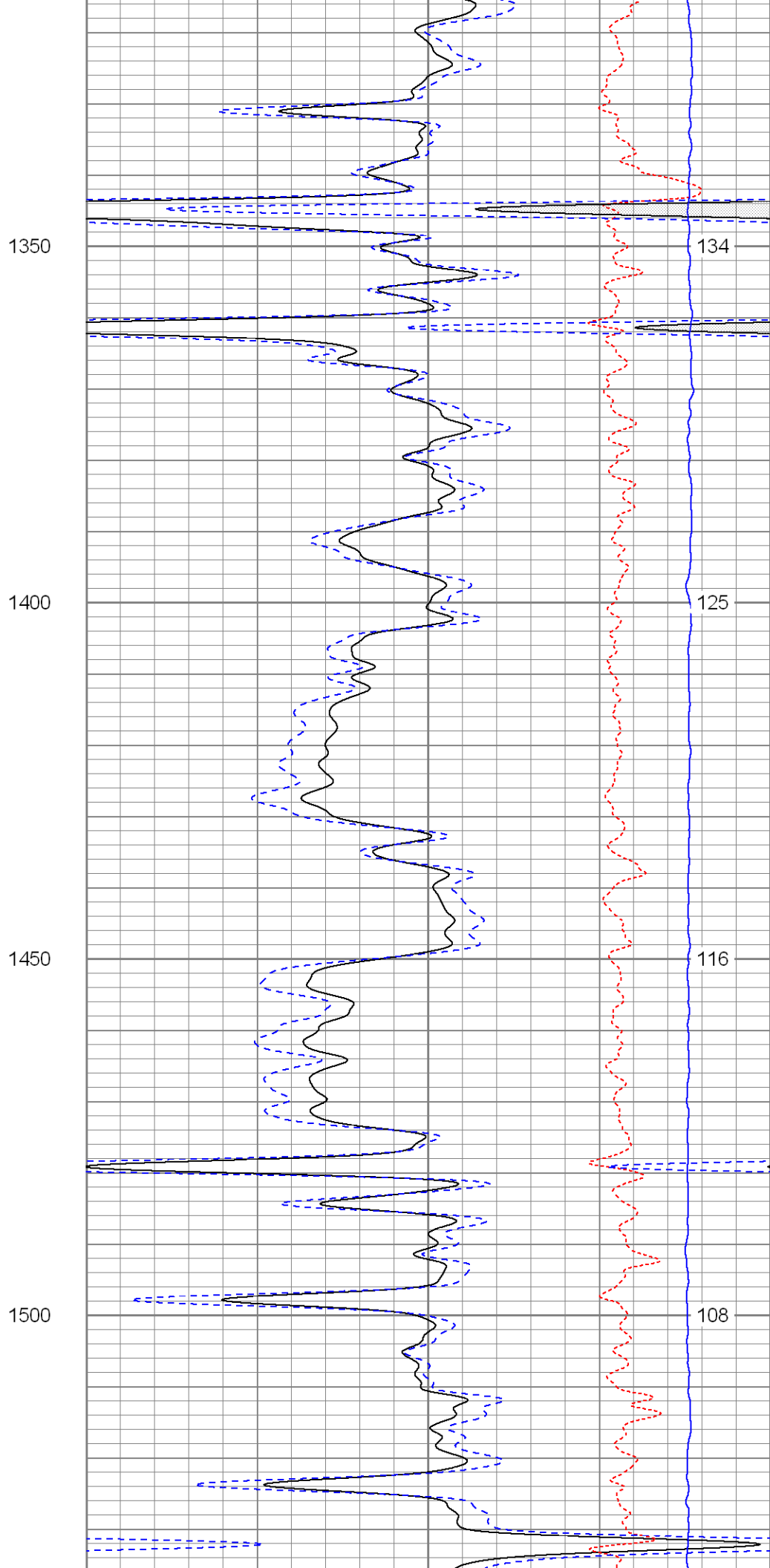
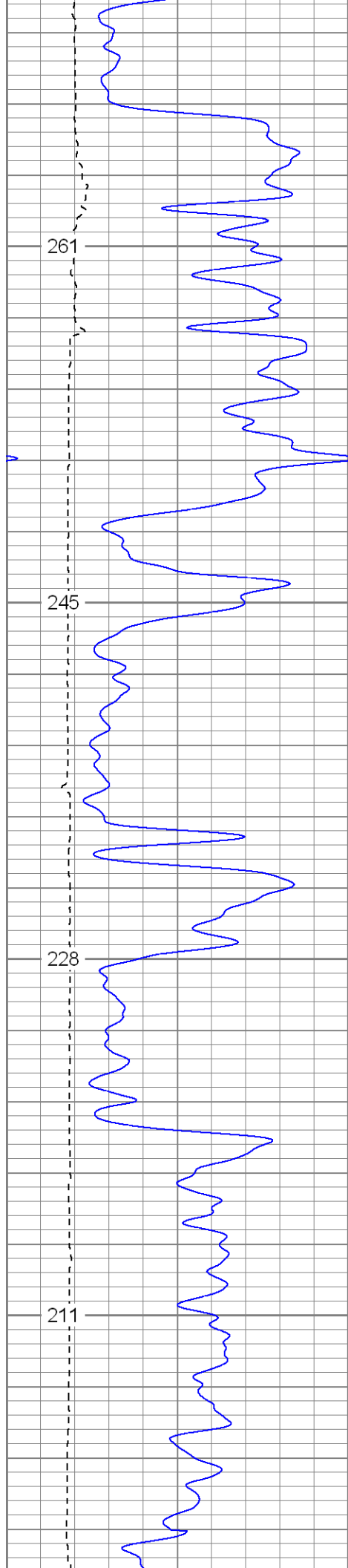
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0

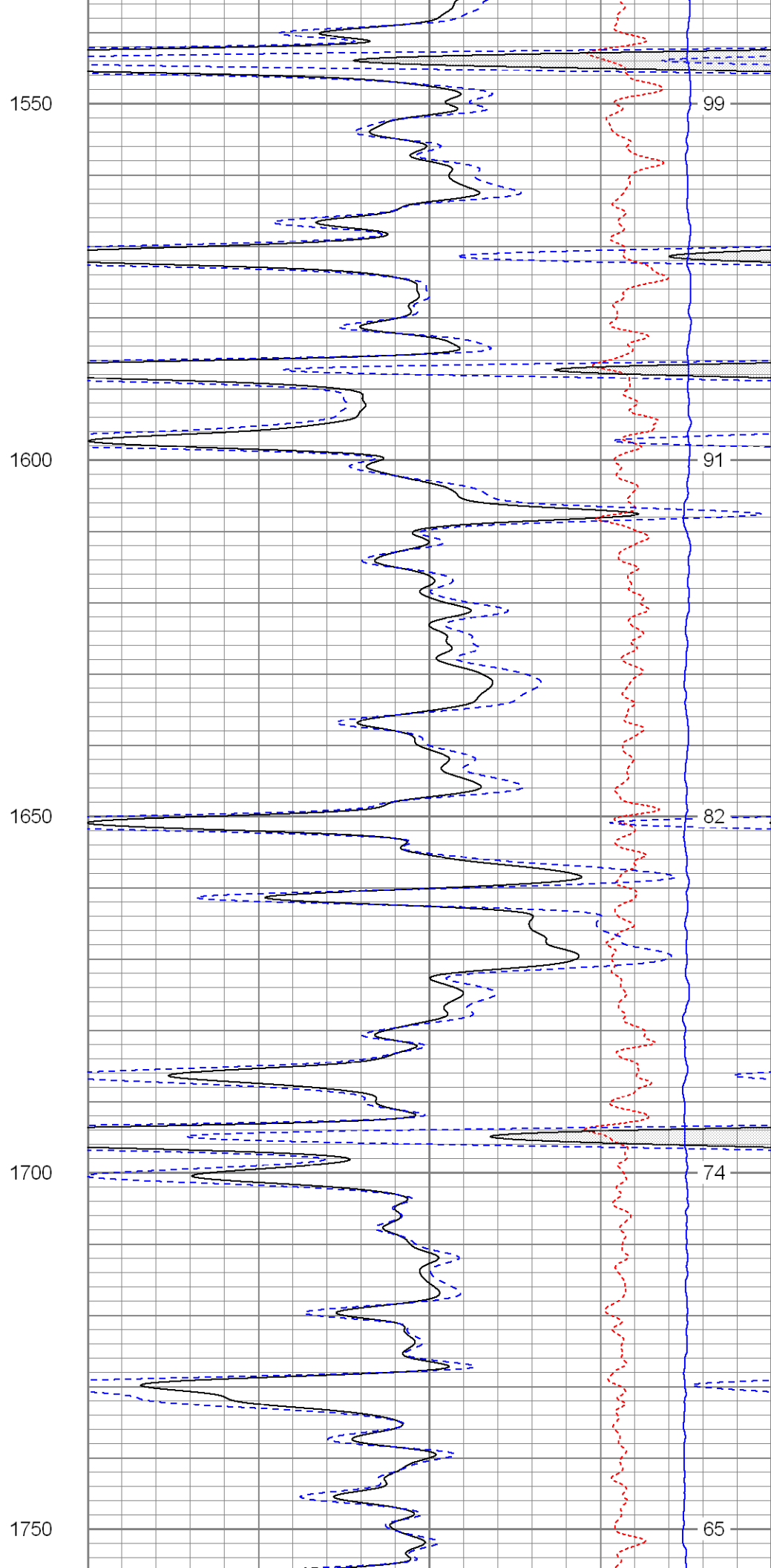
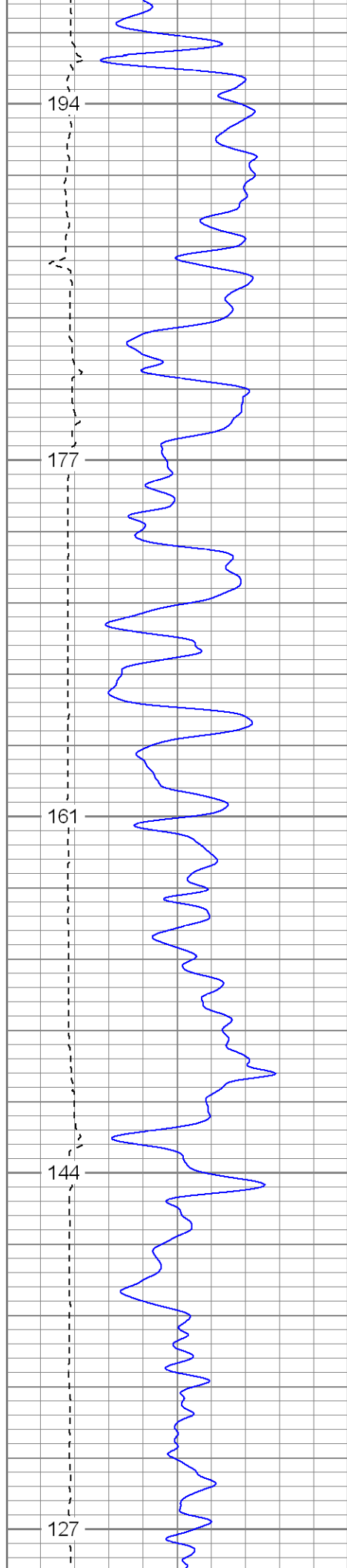


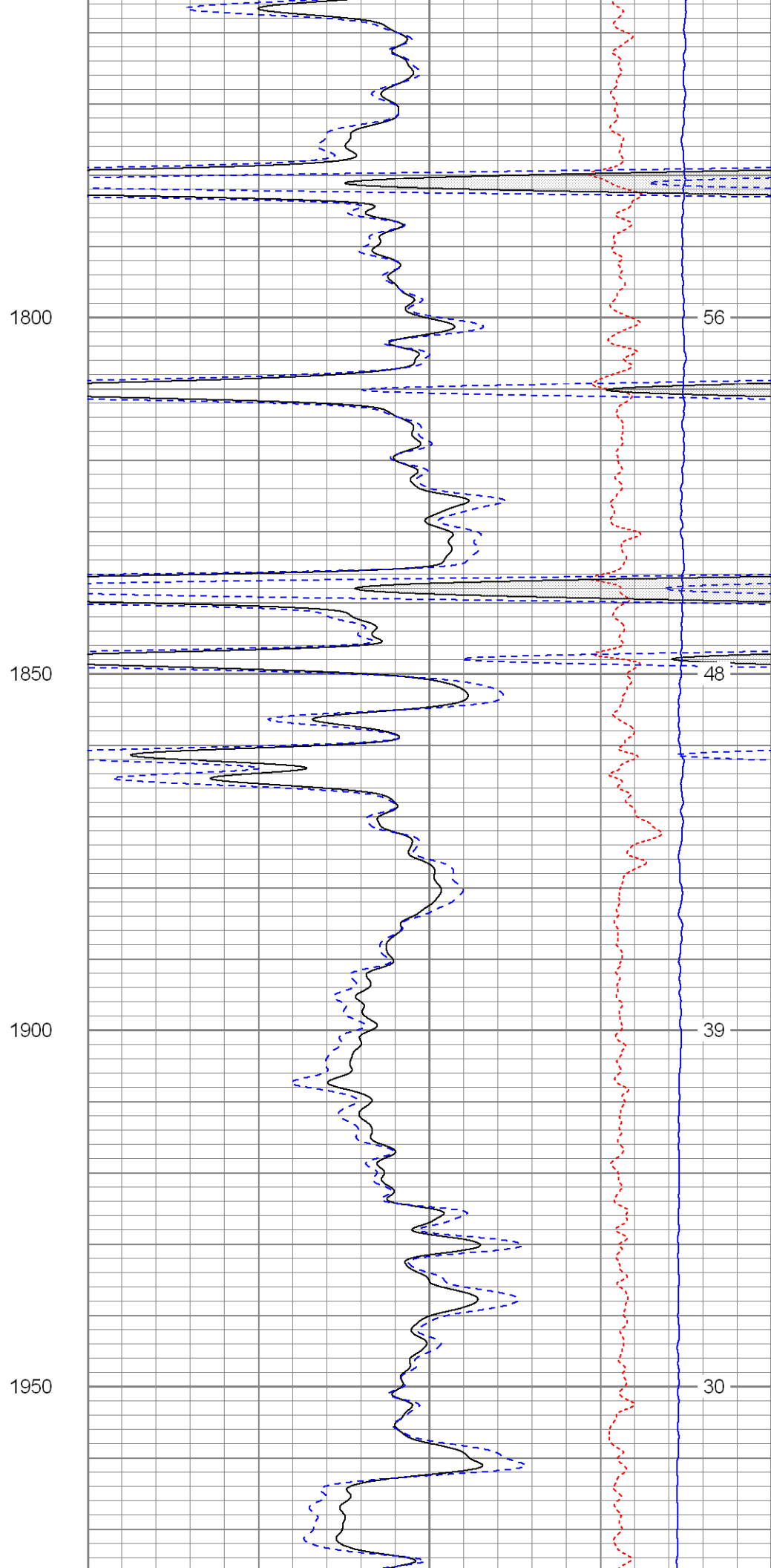
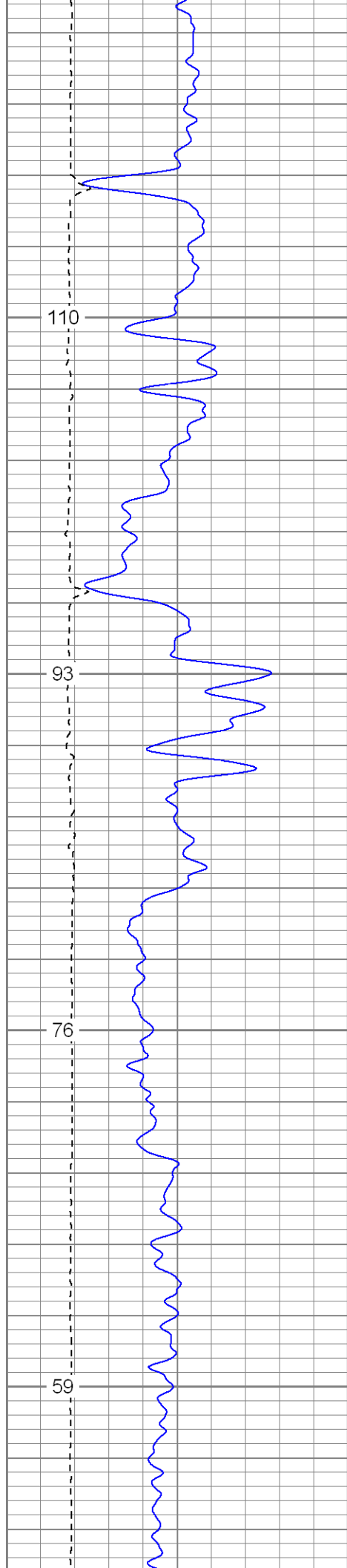


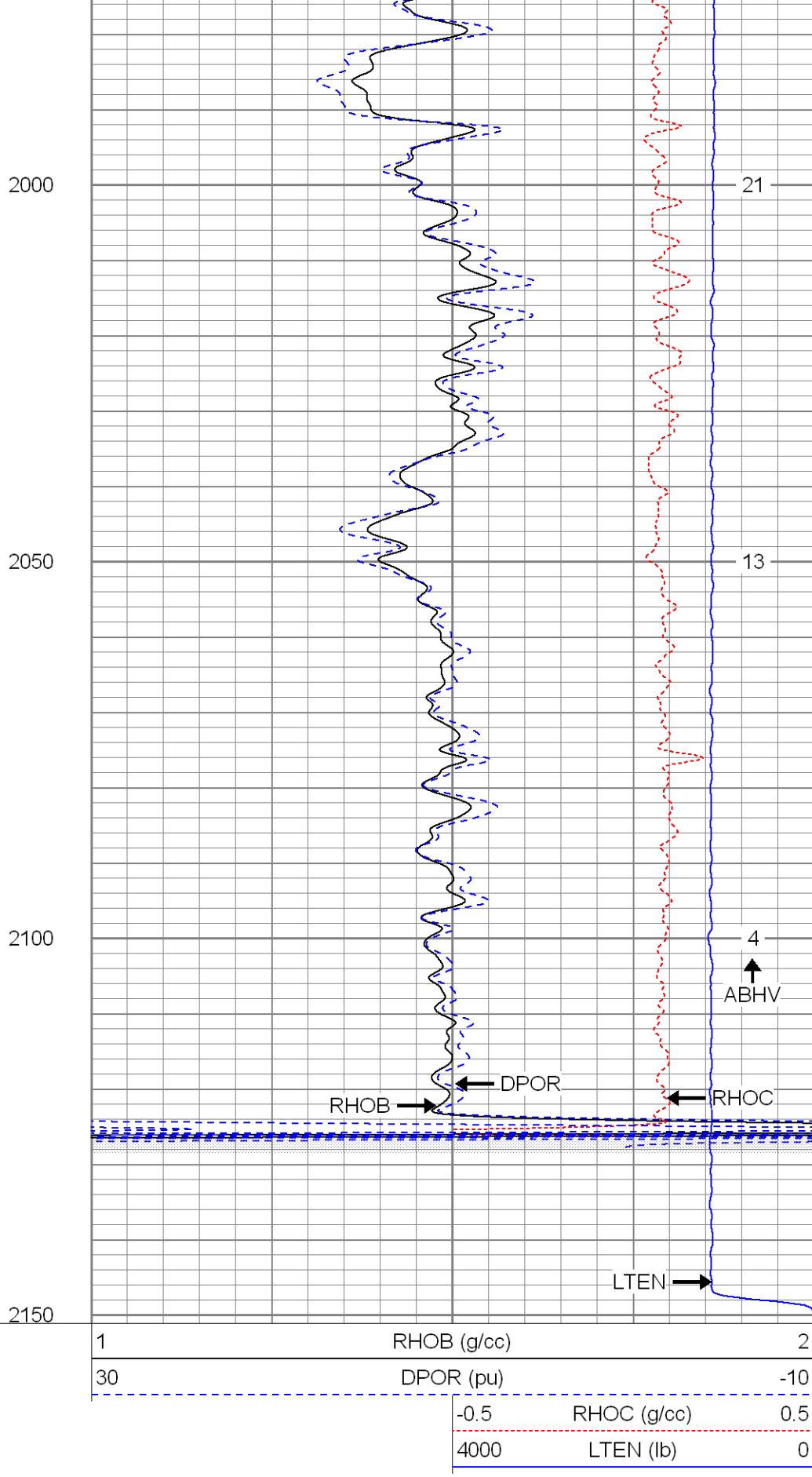
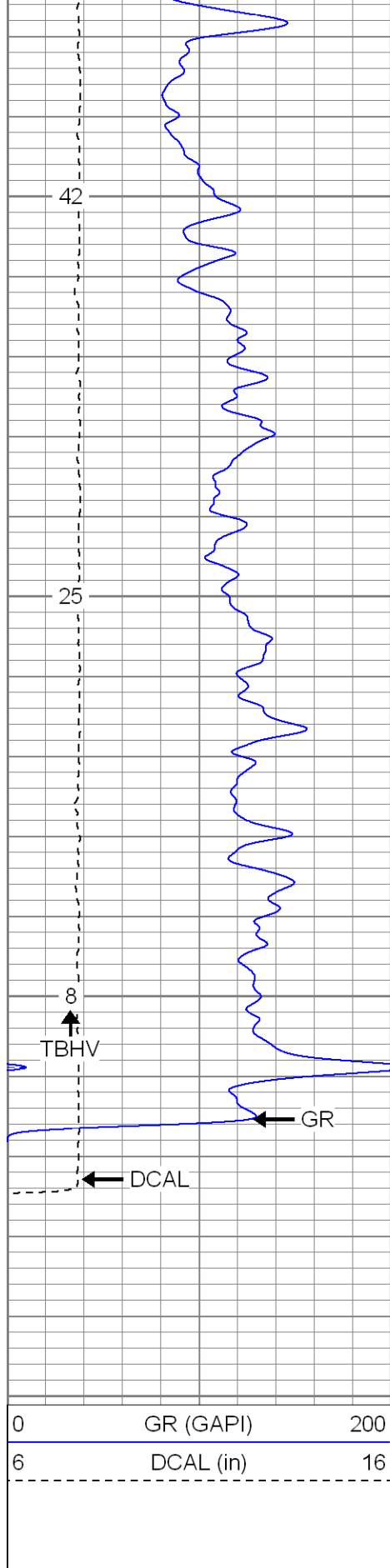












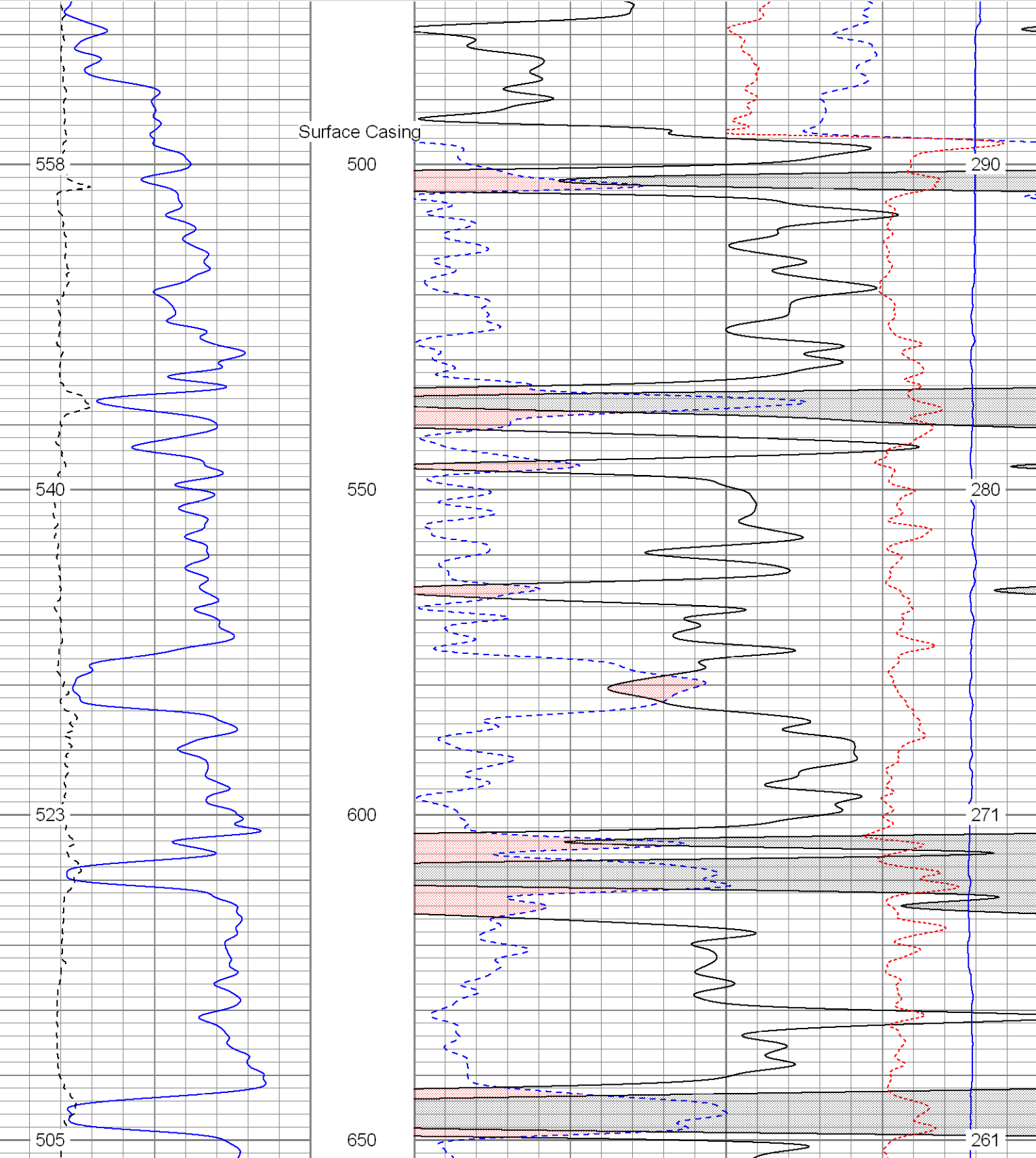
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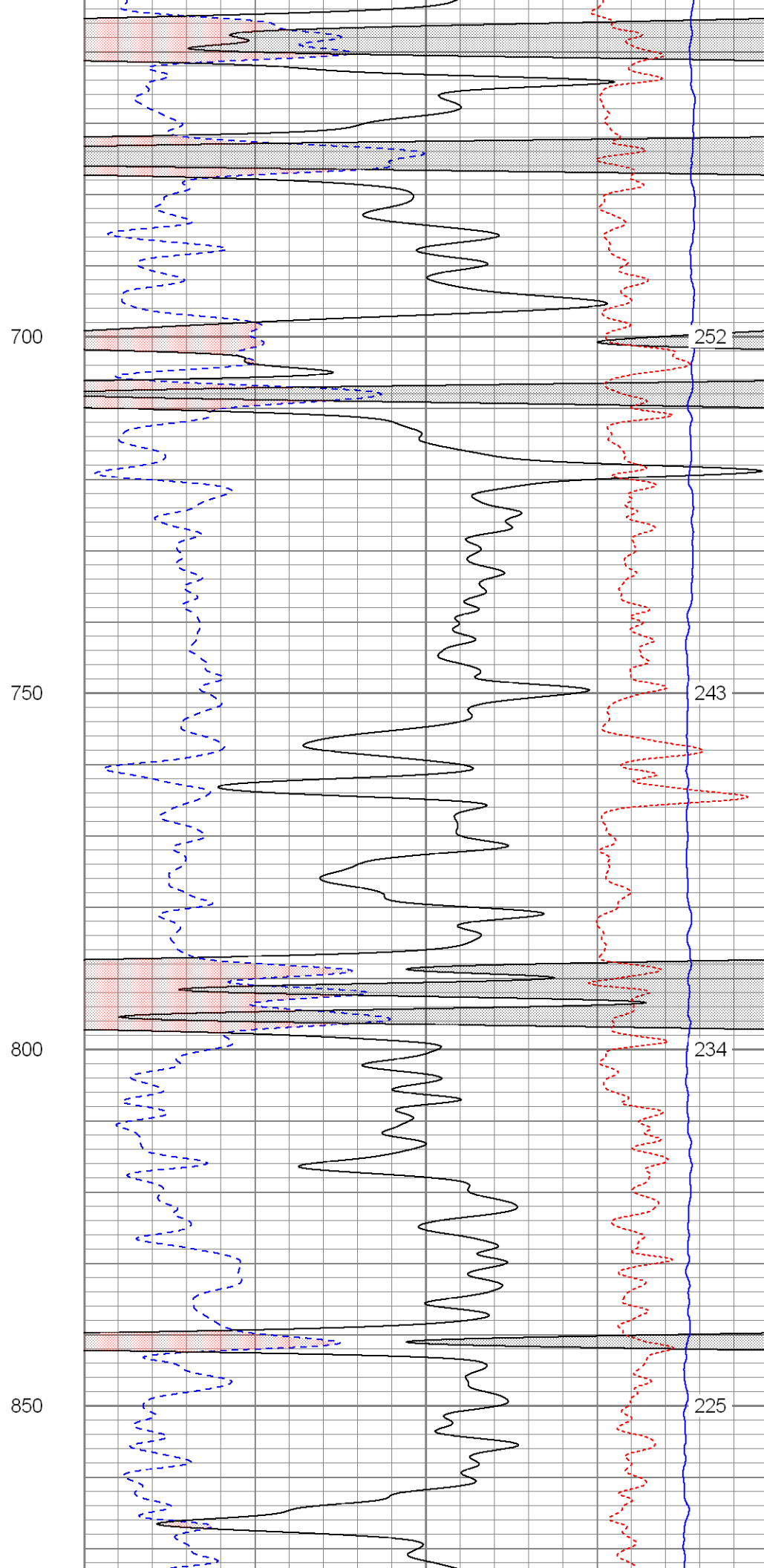
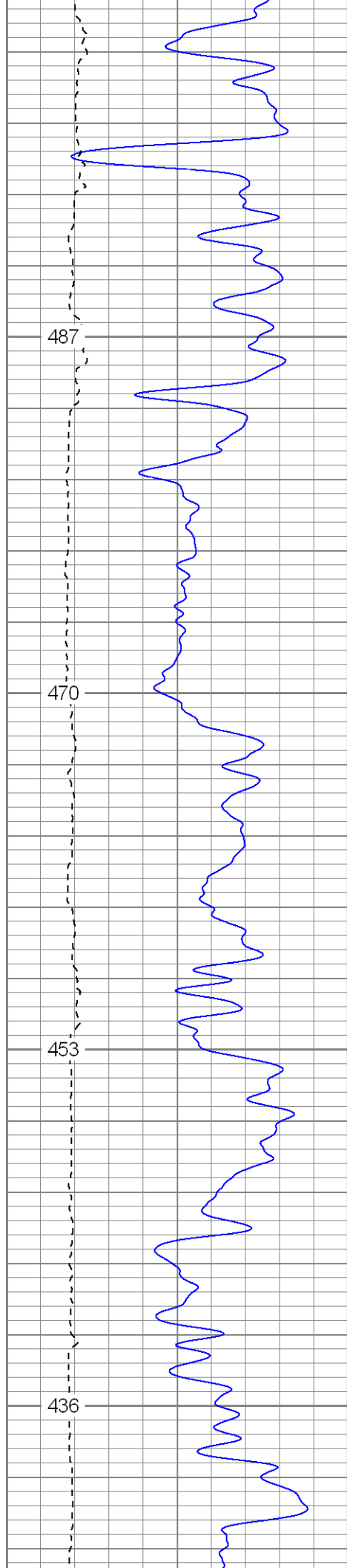
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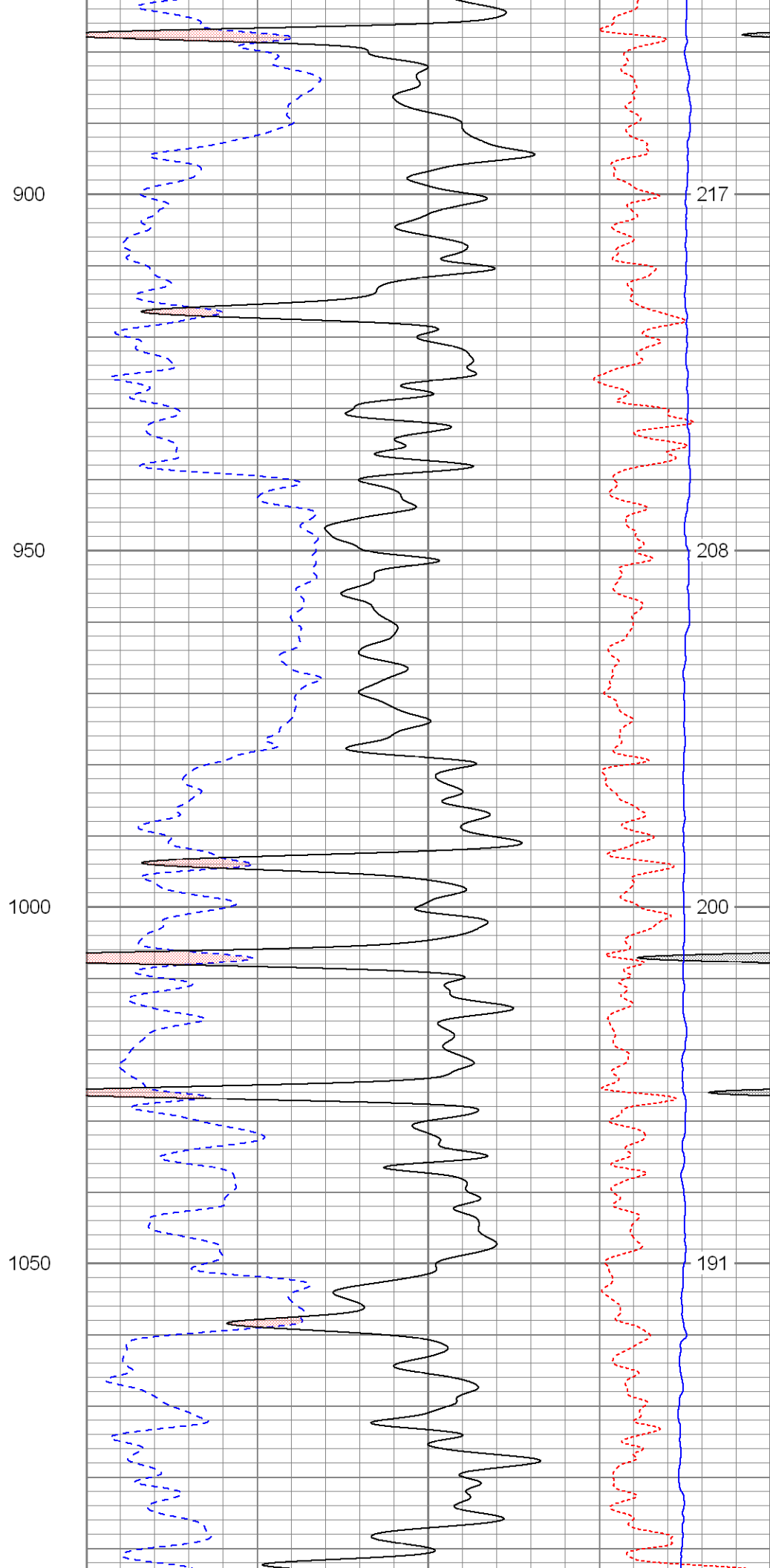
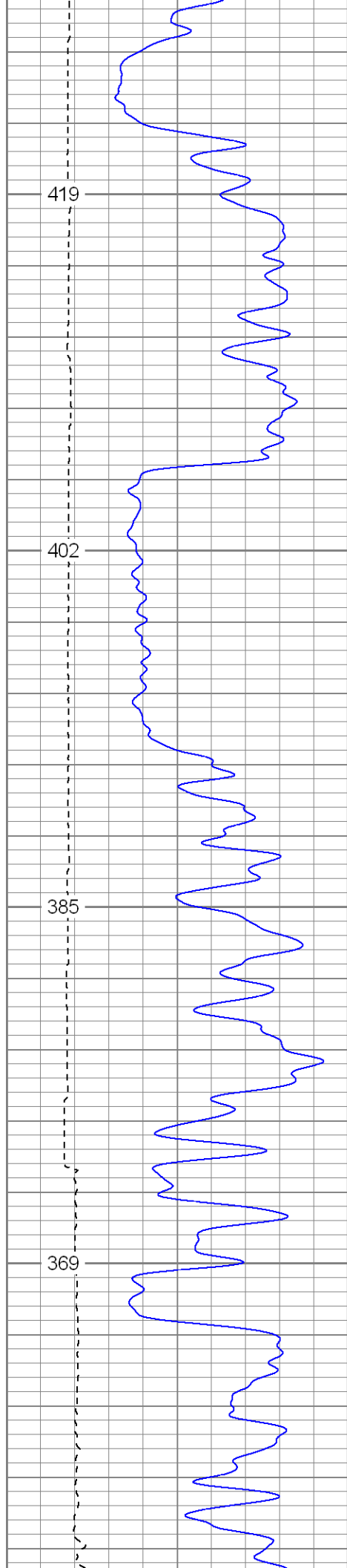
Main Pass

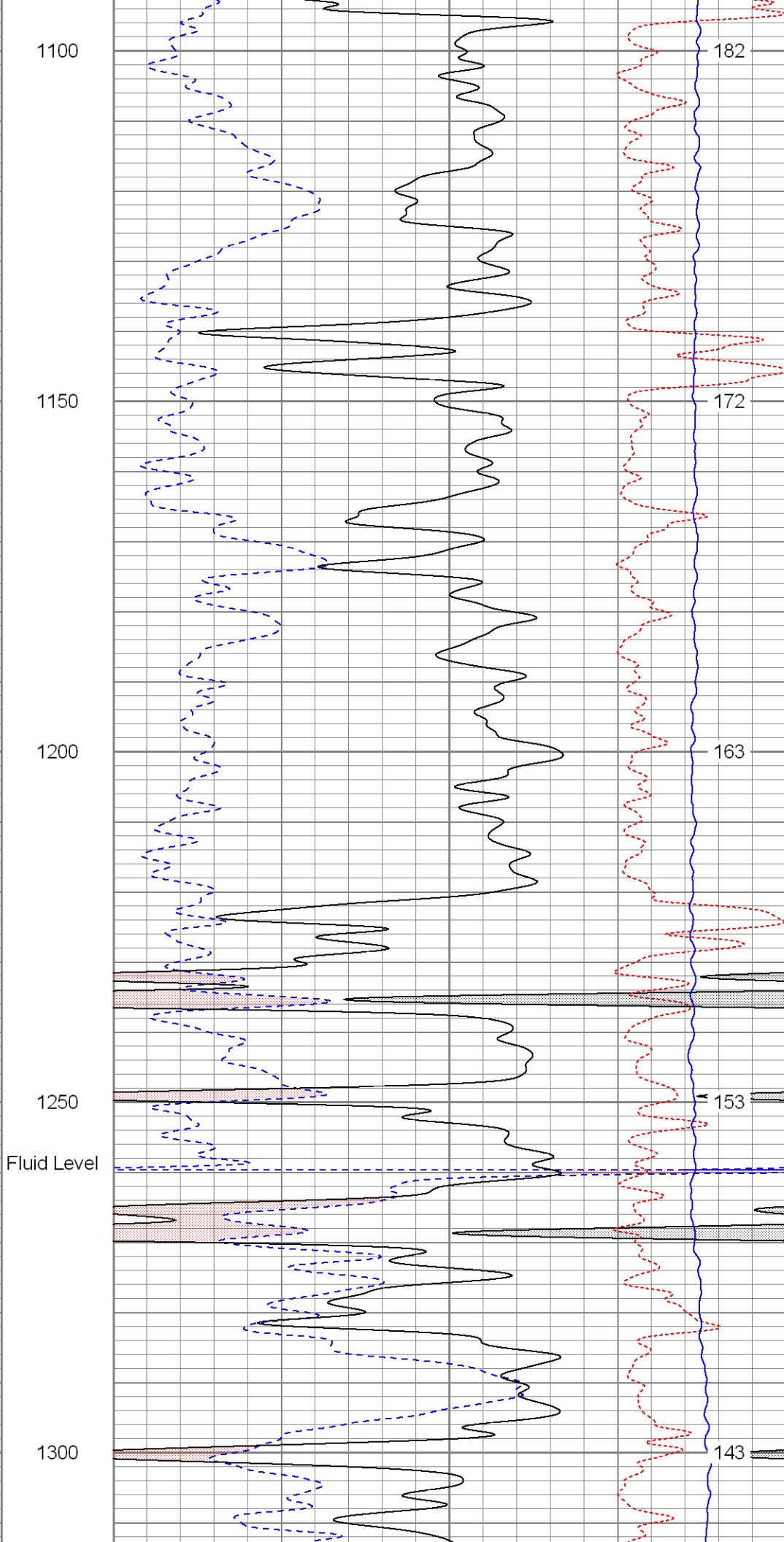
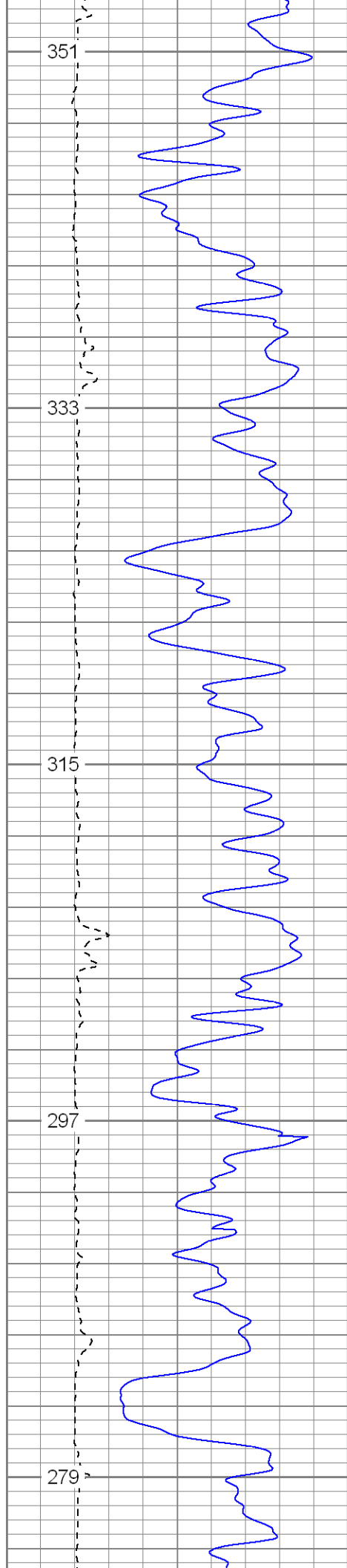
Database File: xtoge3204.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Tue Jul 24 12:22:44 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

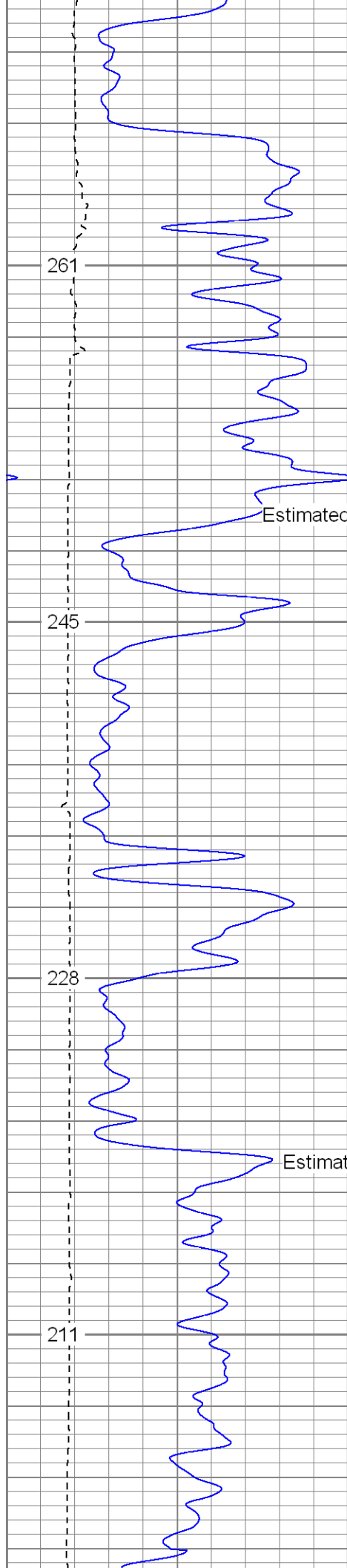
0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0











Estimated Top of Conglomerate

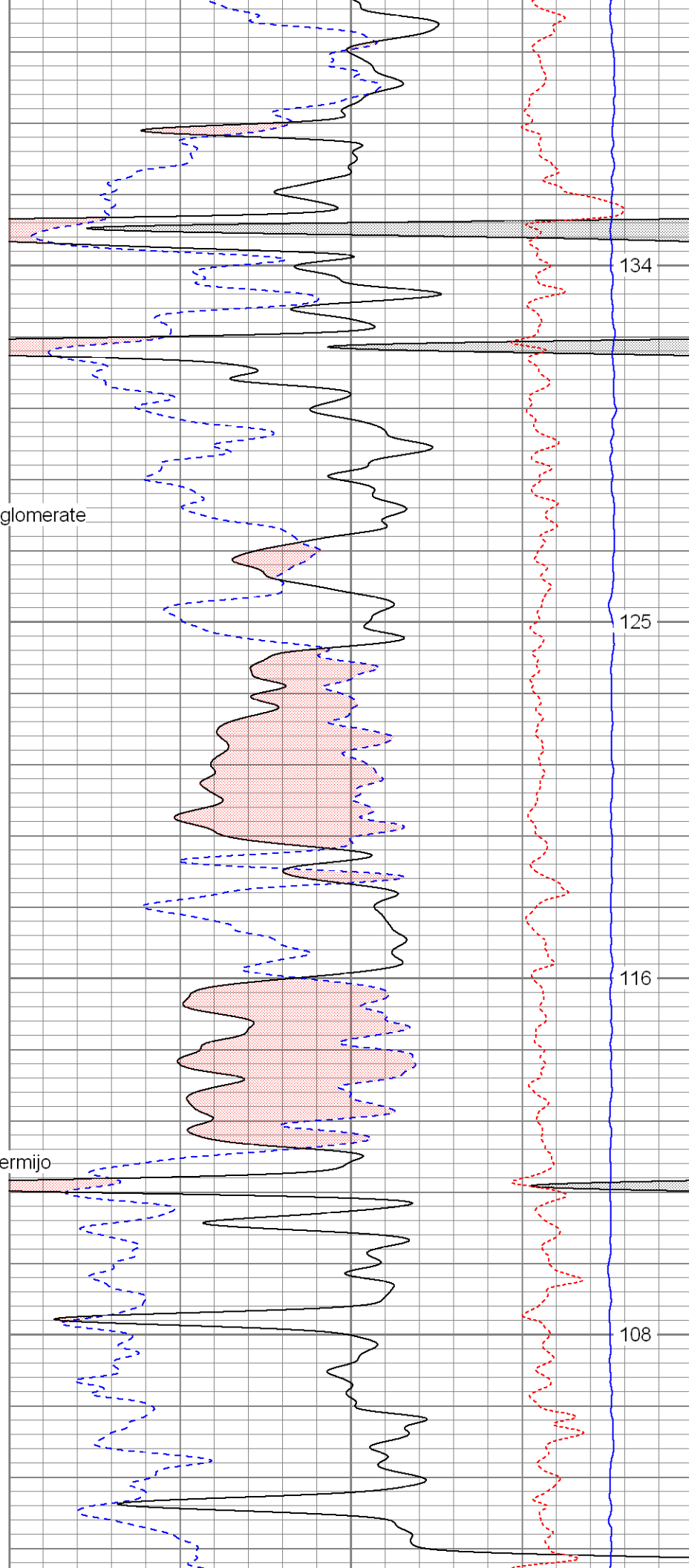
Estimated Top of Vermijo

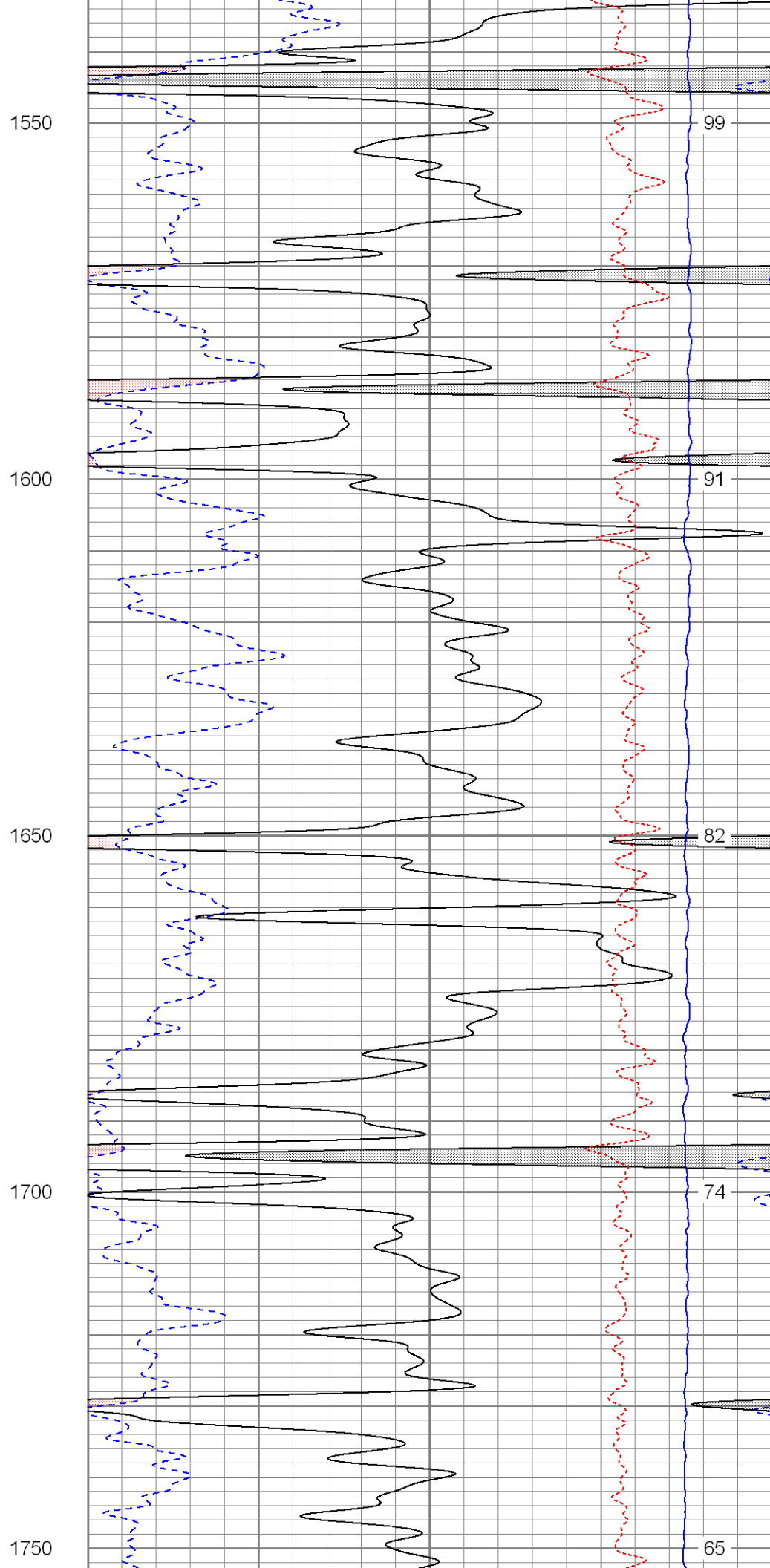
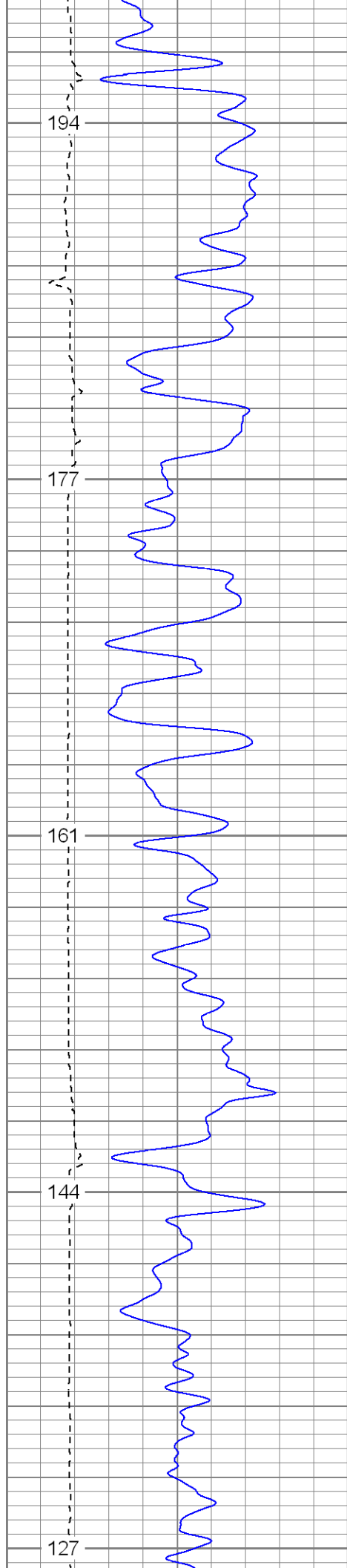
1350

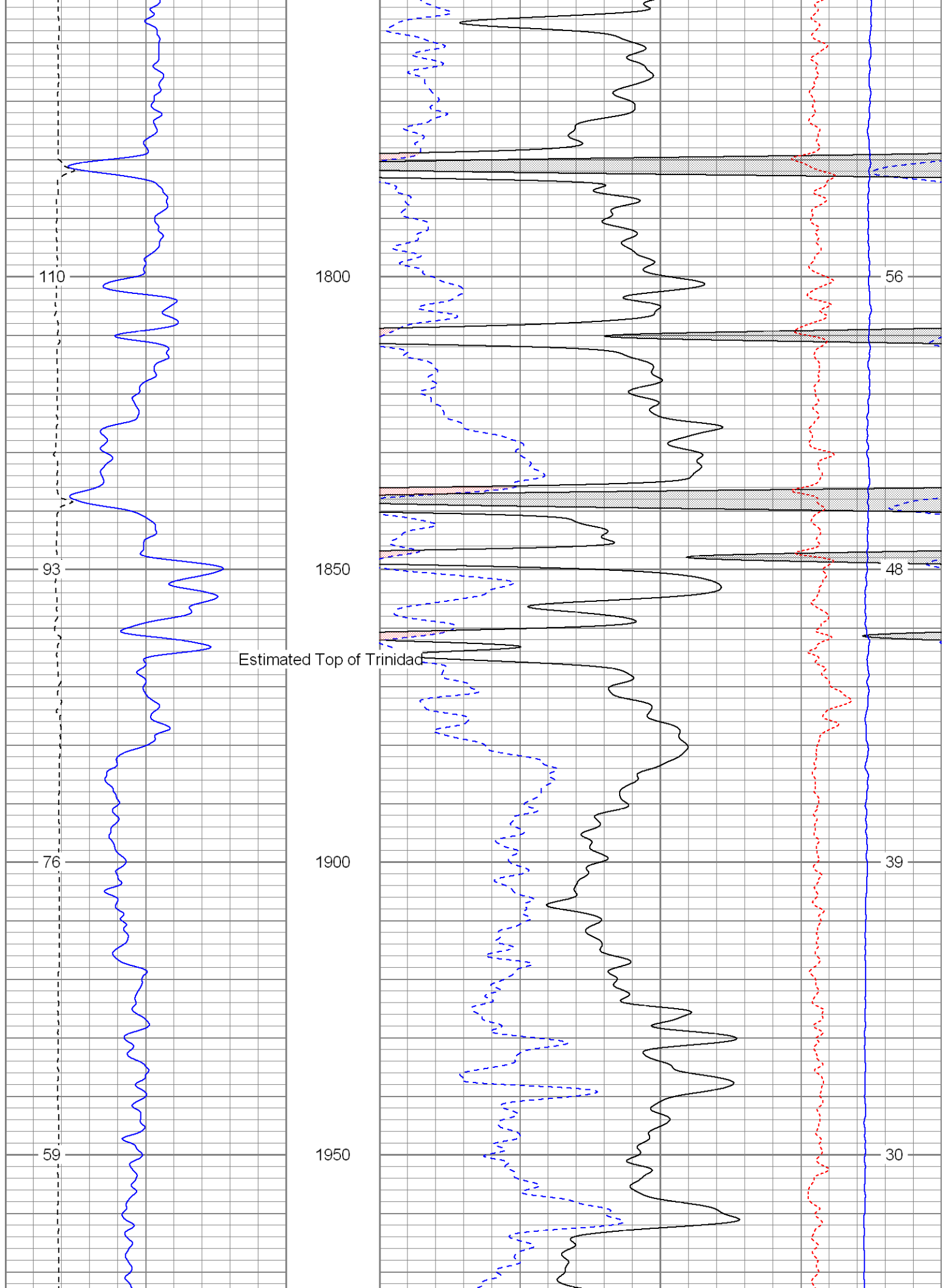
1400

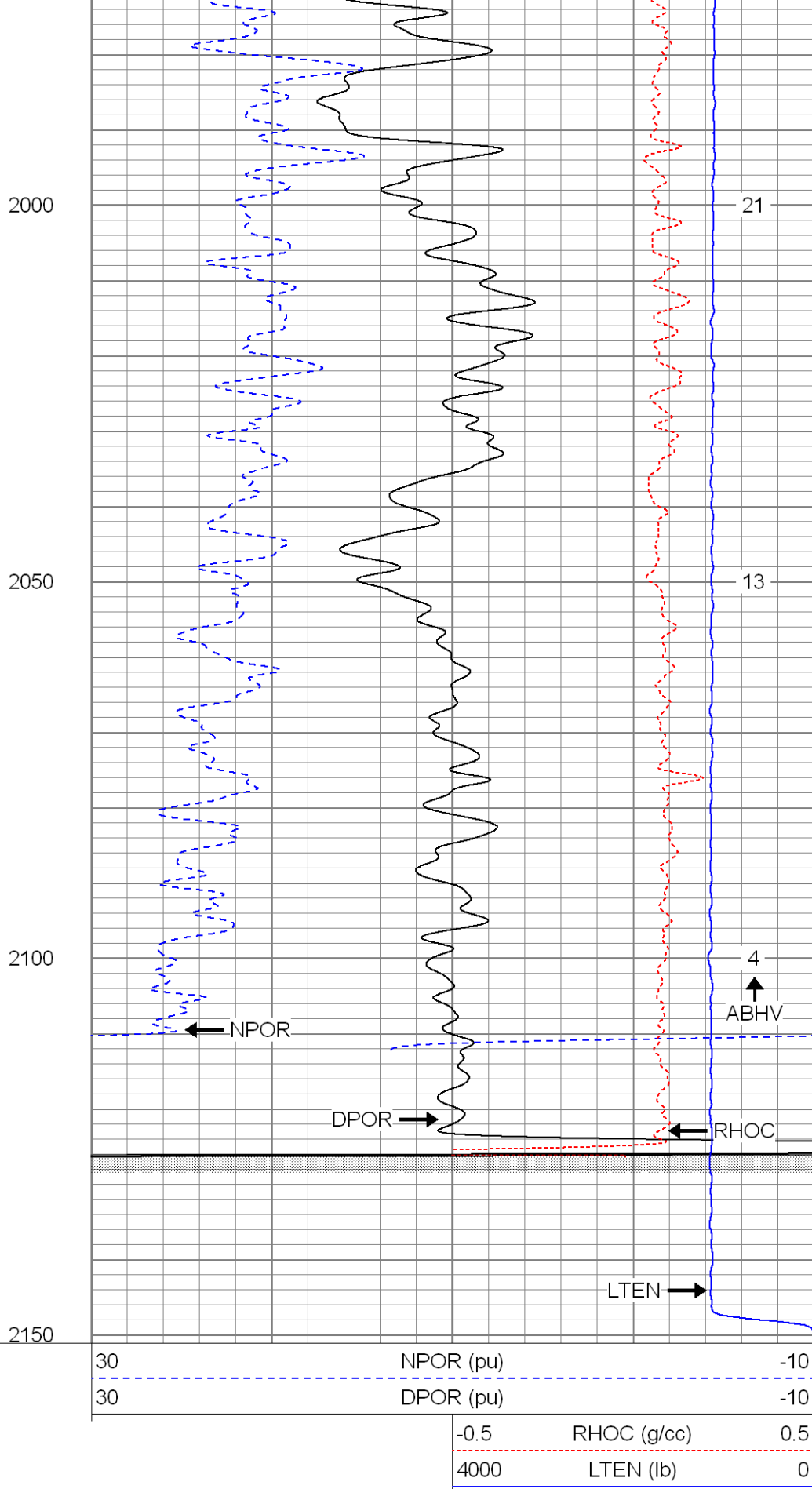
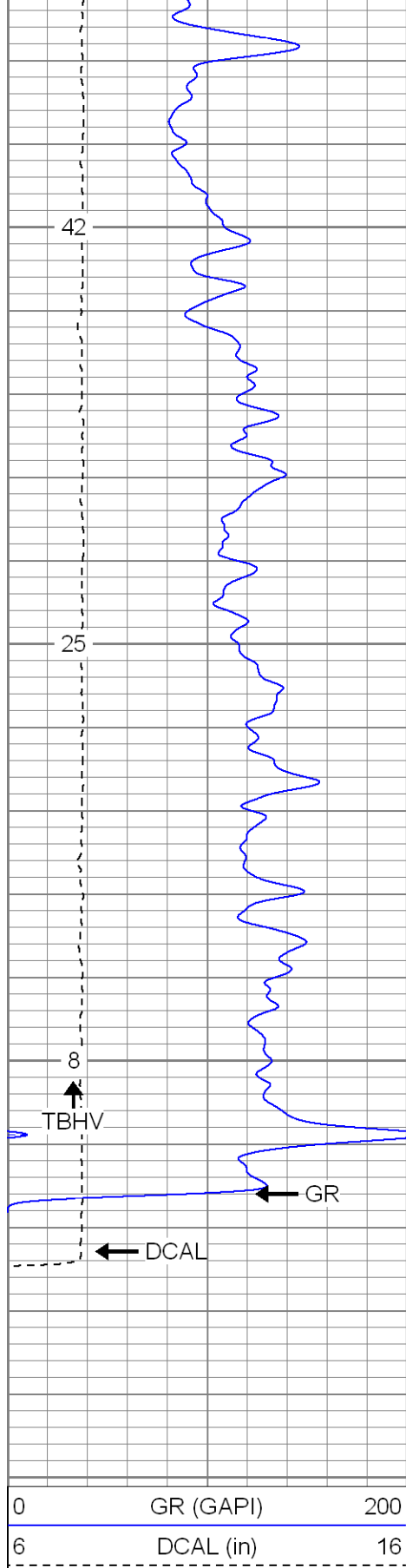
1450

1500









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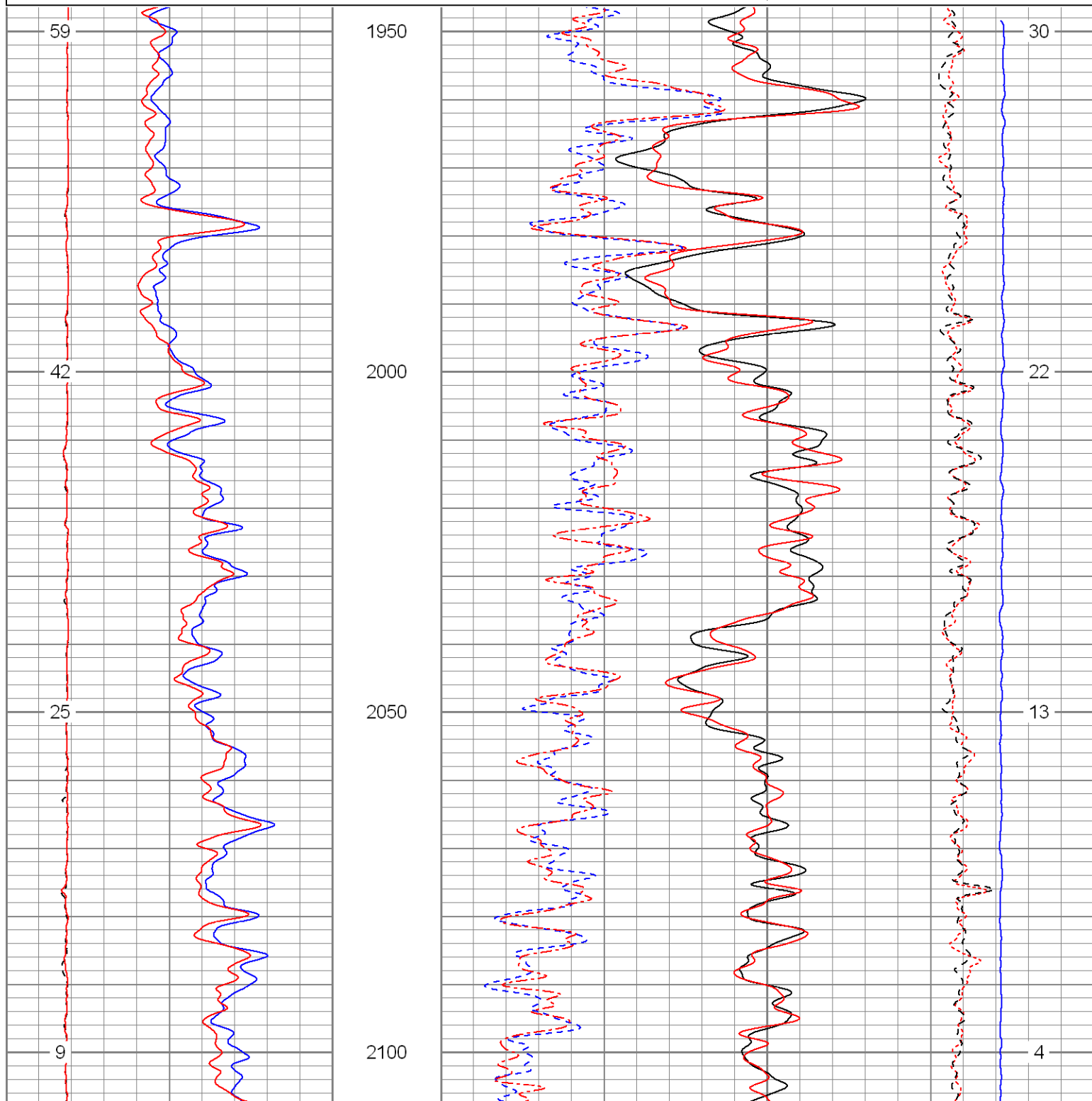
Repeat Section

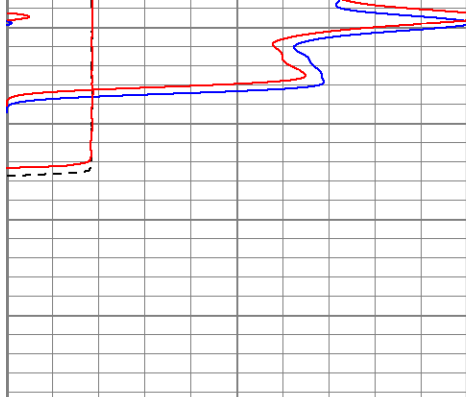
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Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Tue Jul 24 12:21:48 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

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

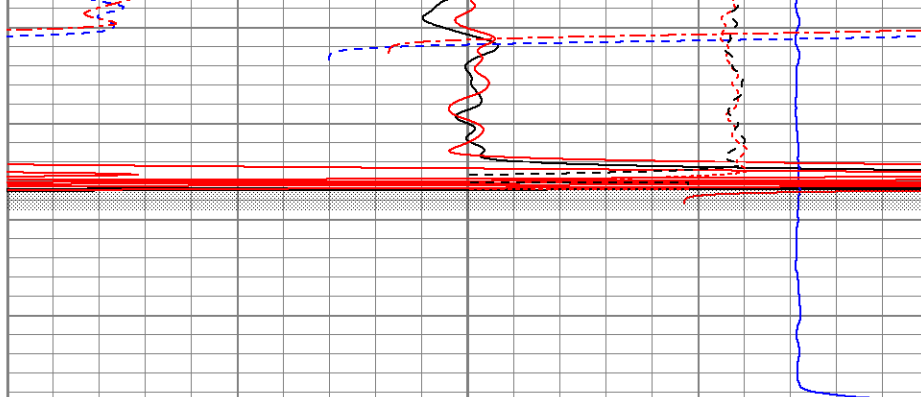
30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10

-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
6	DCAL-repeat (in)	16



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



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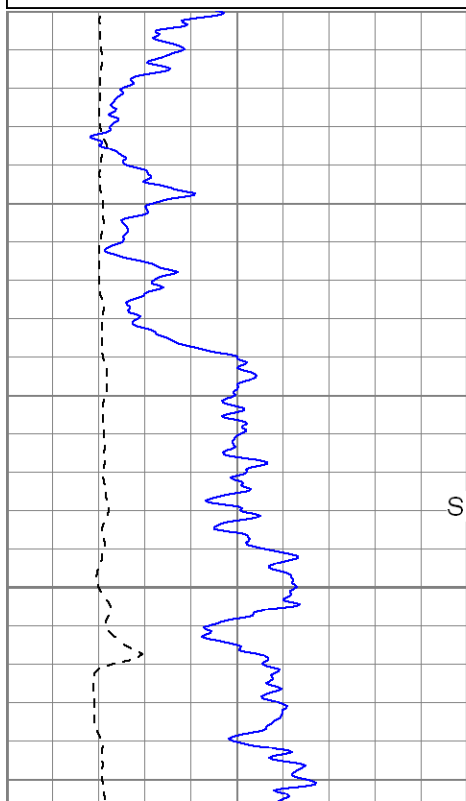
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High Resolution Pass

Database File: xtoge3204.db
Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Tue Jul 24 12:35:59 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:120

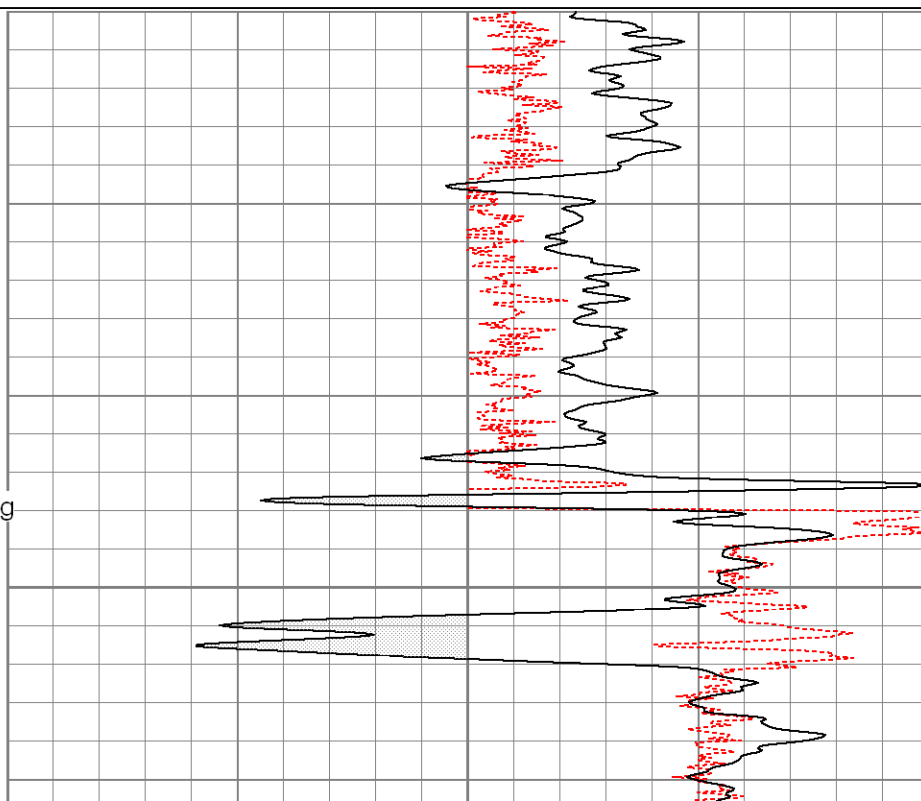
0	GR (GAPI)	200
6	DCAL (in)	16

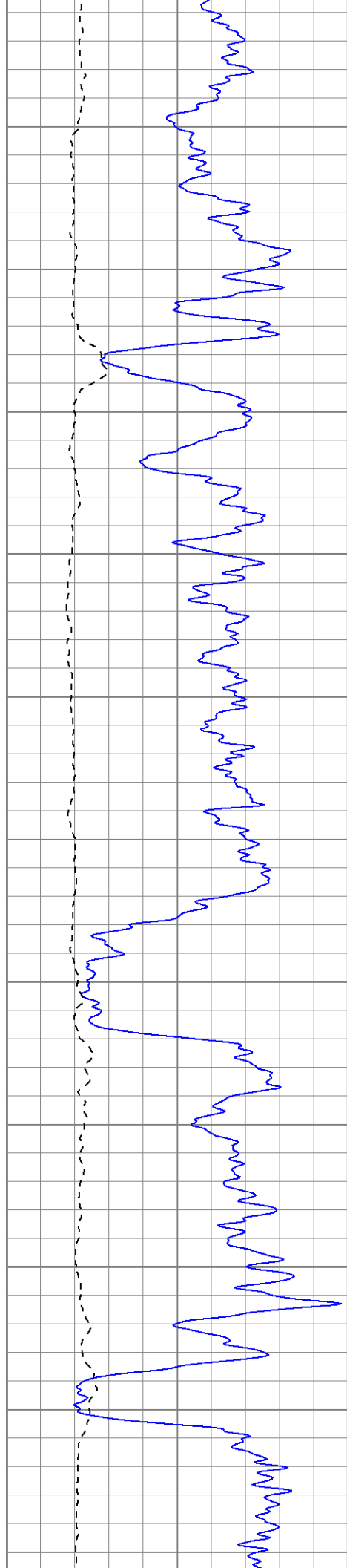
1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5



Surface Casing

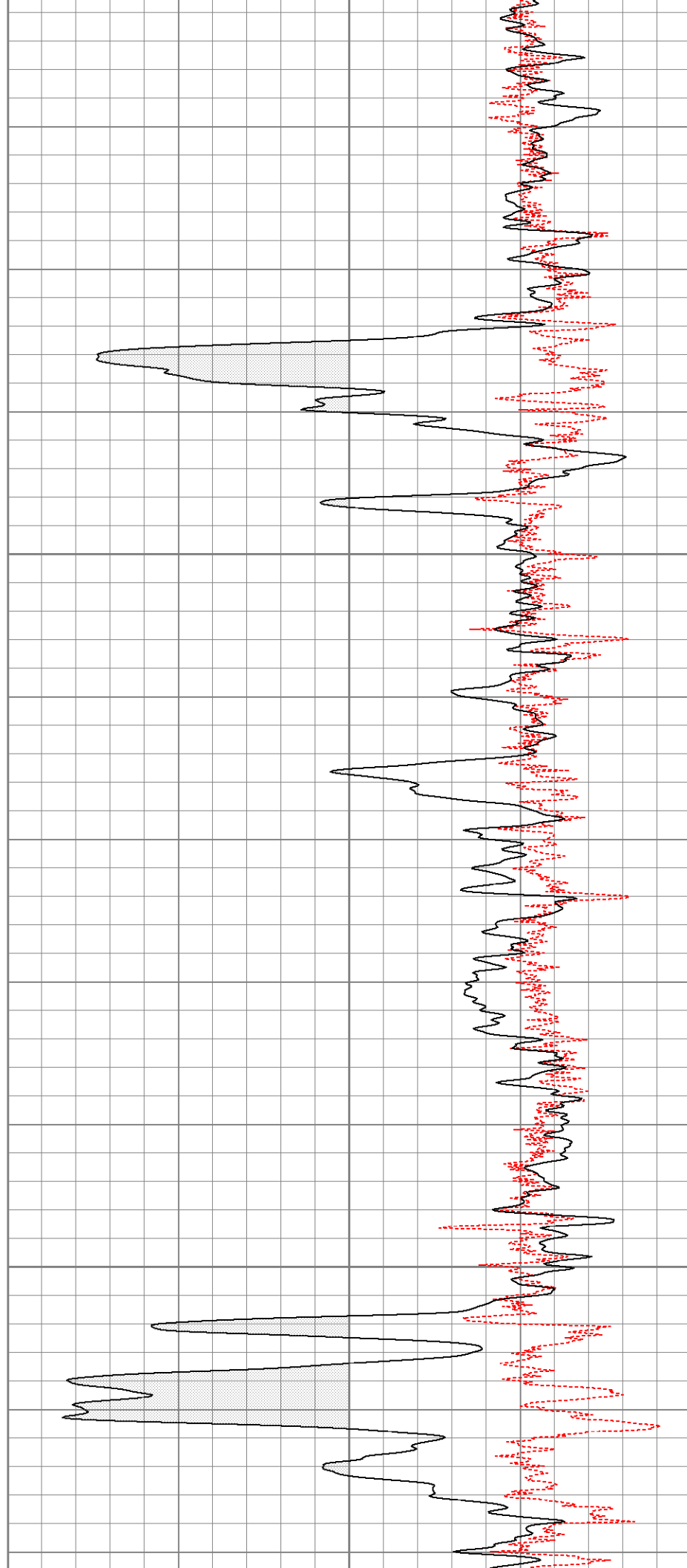
500

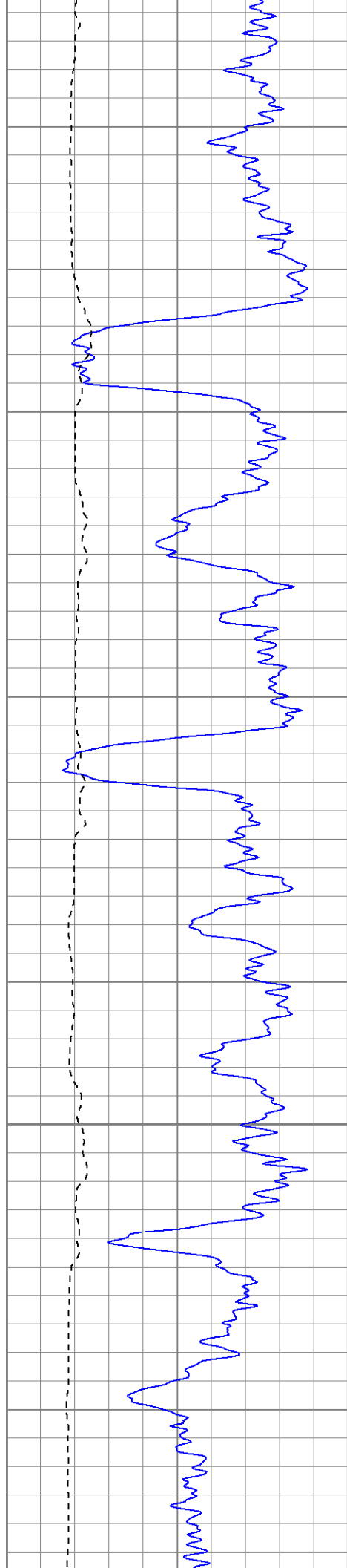




550

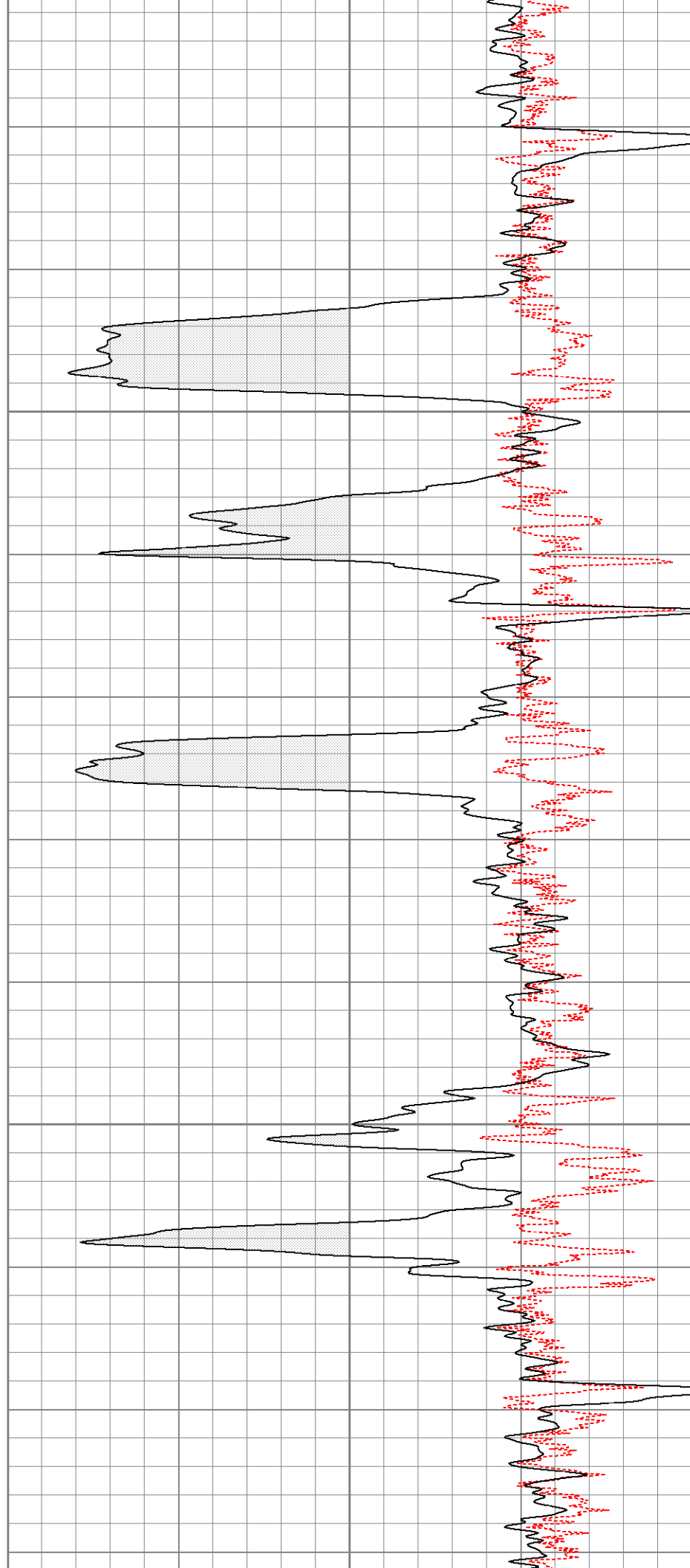
600

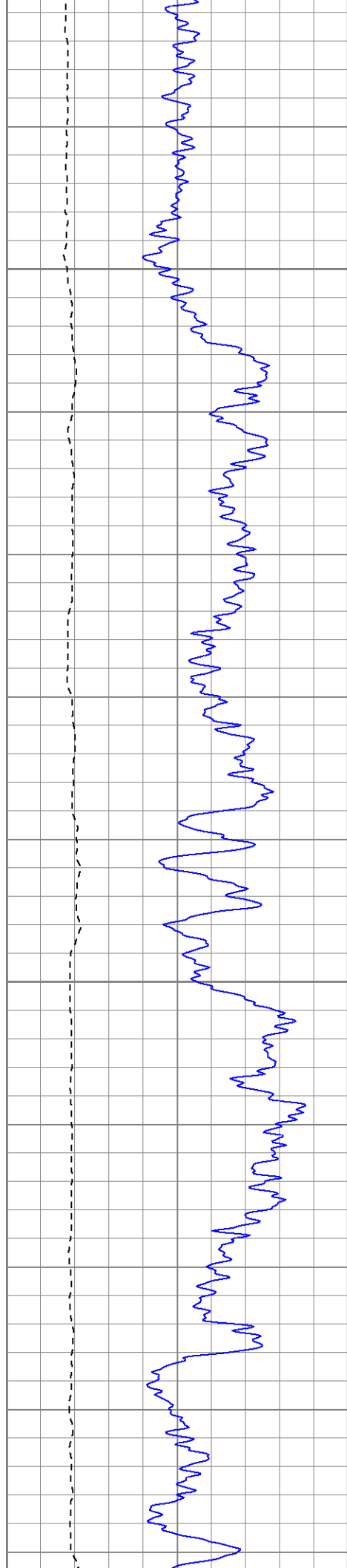




650

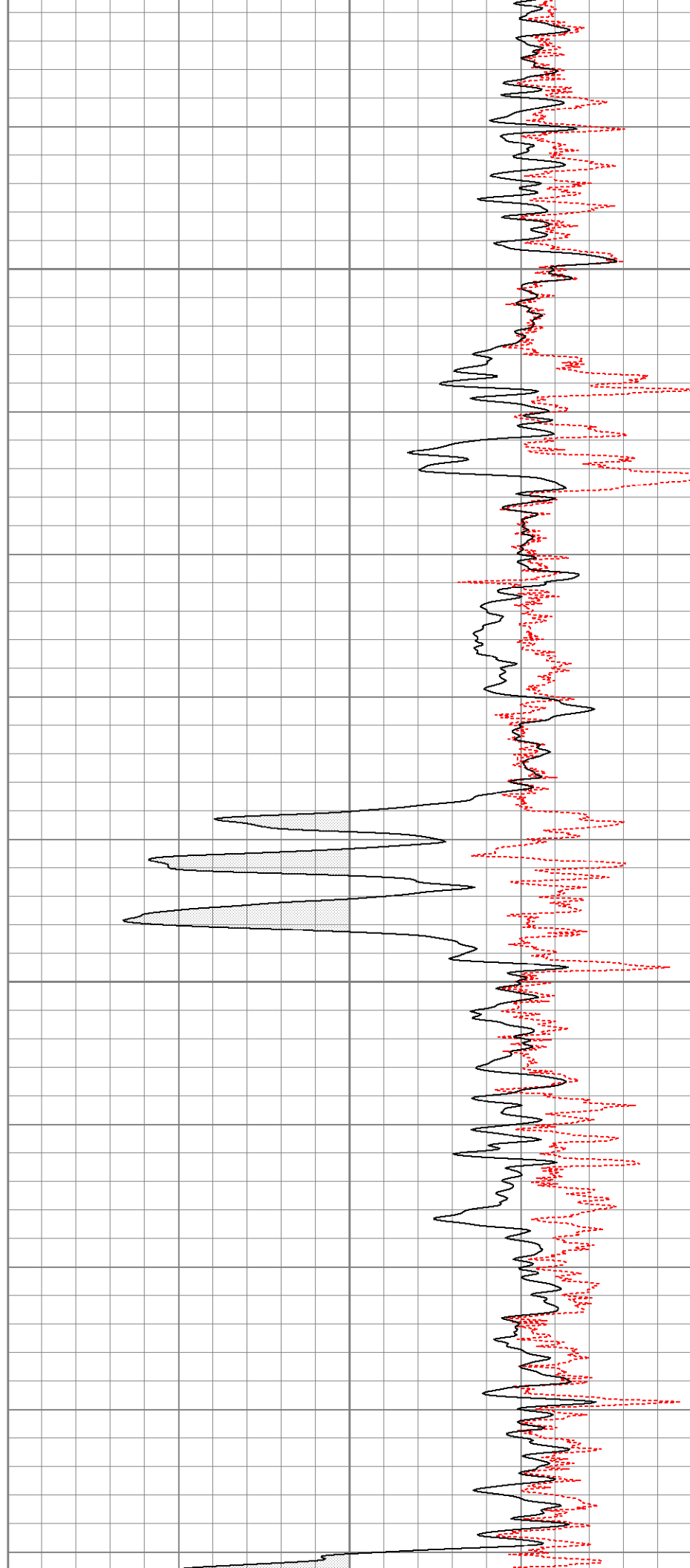
700

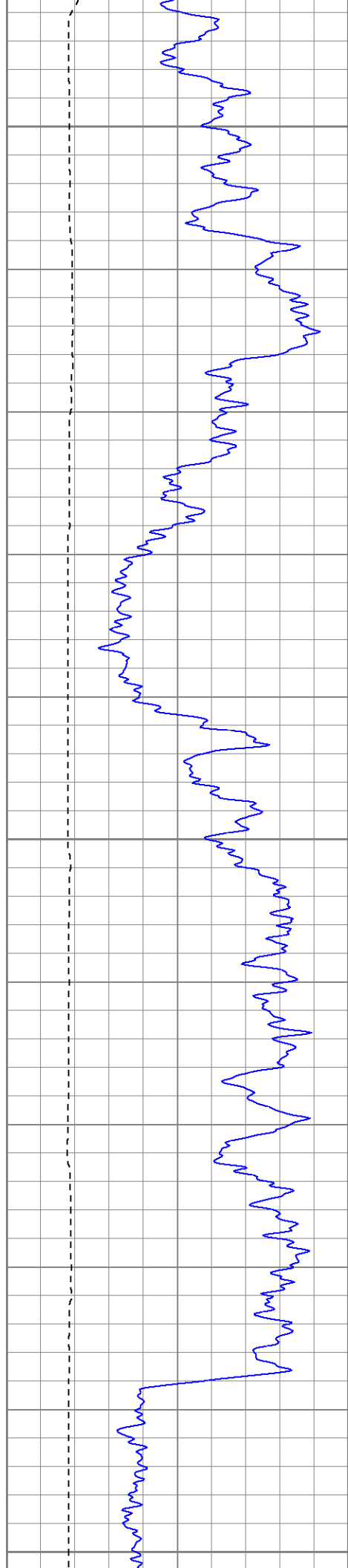




750

800

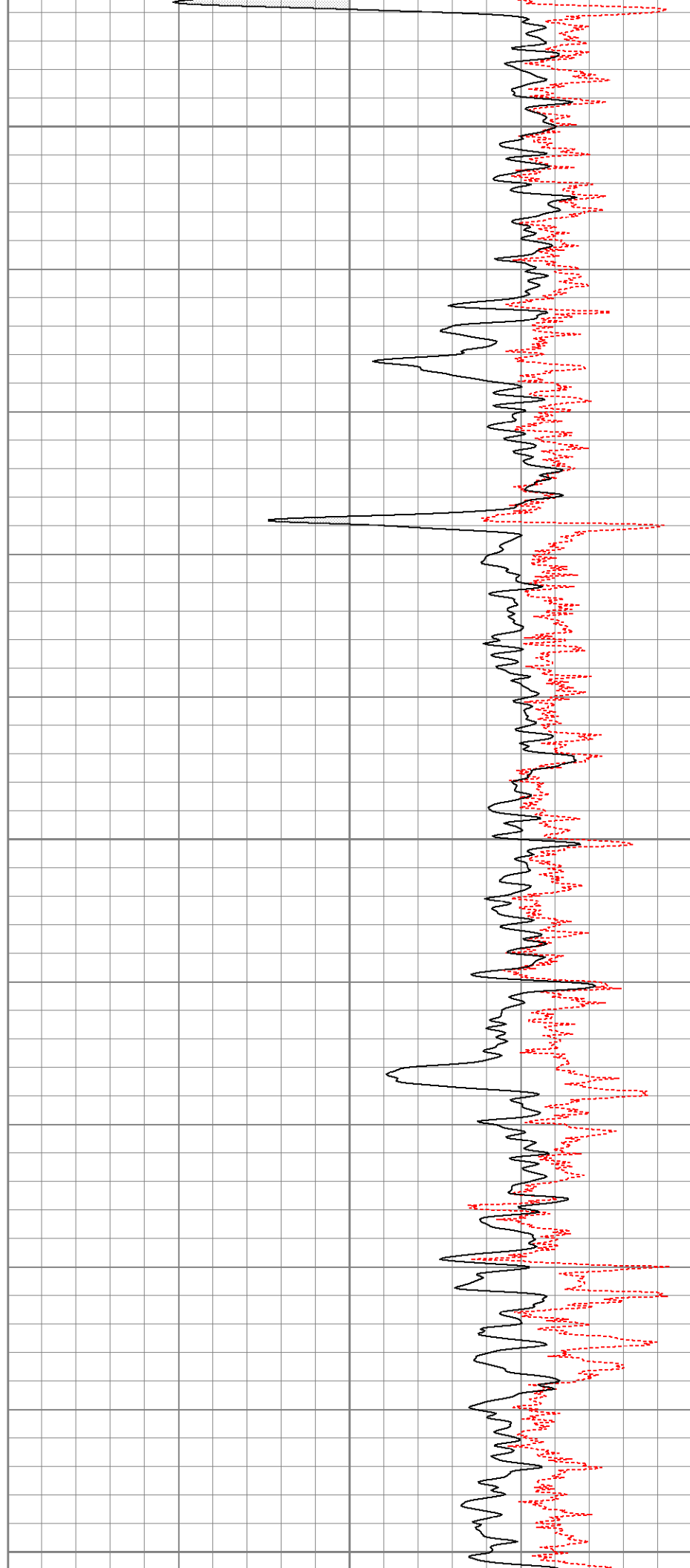


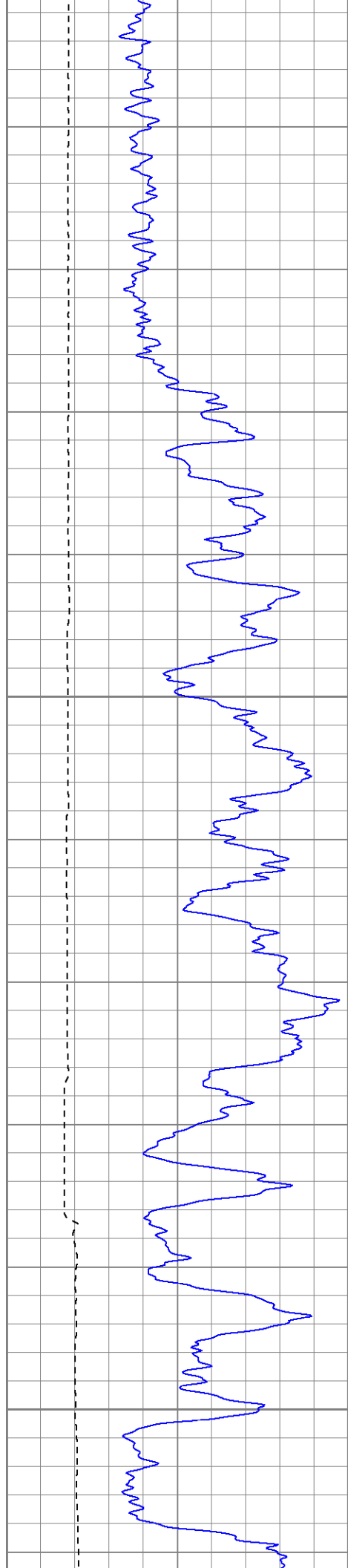


850

900

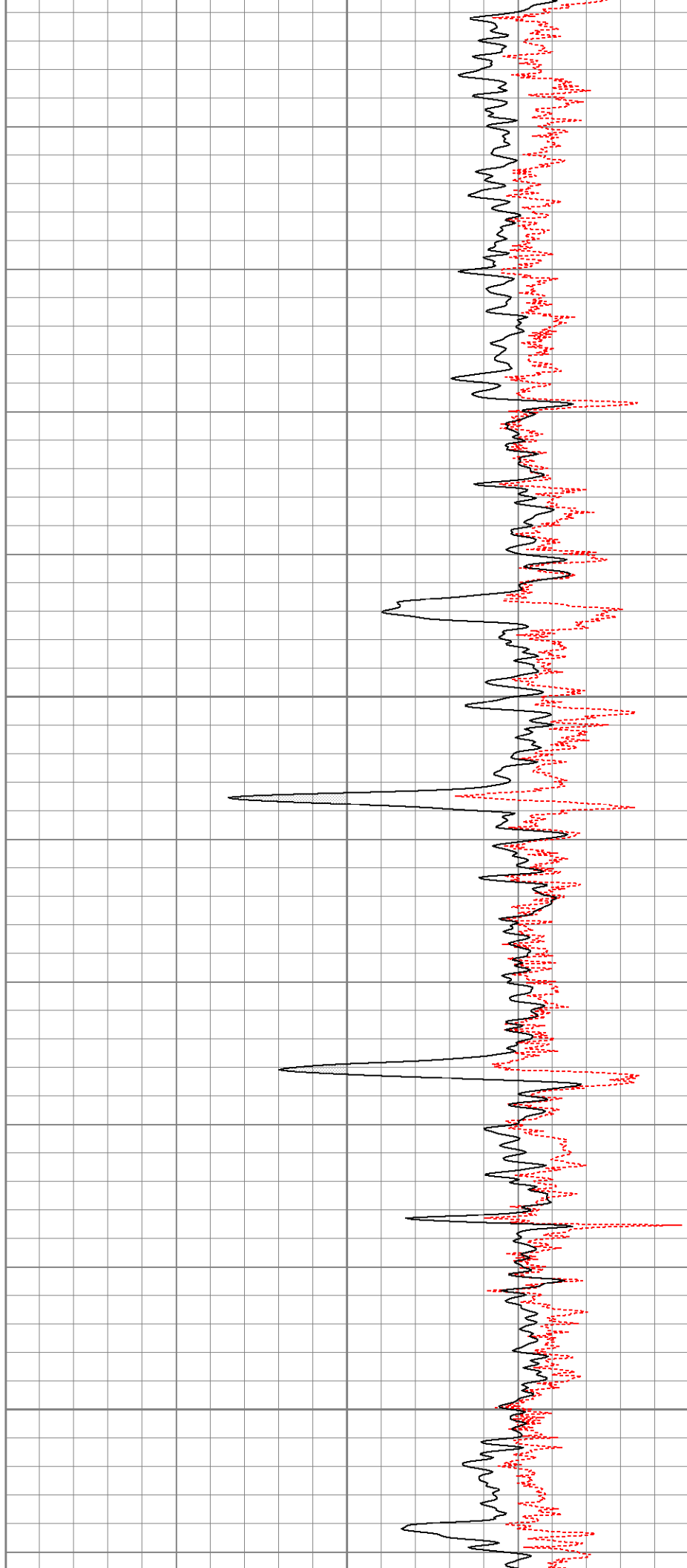
950

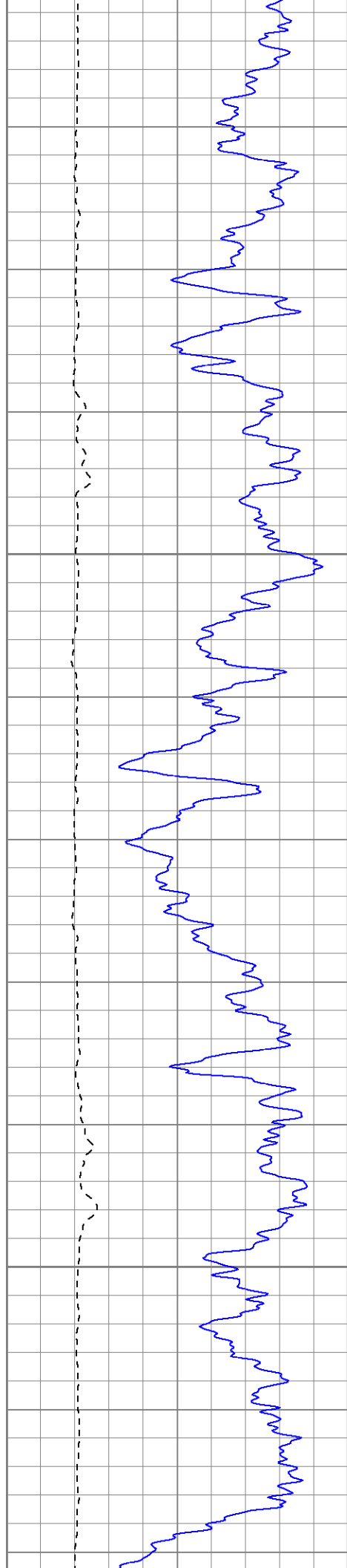




1000

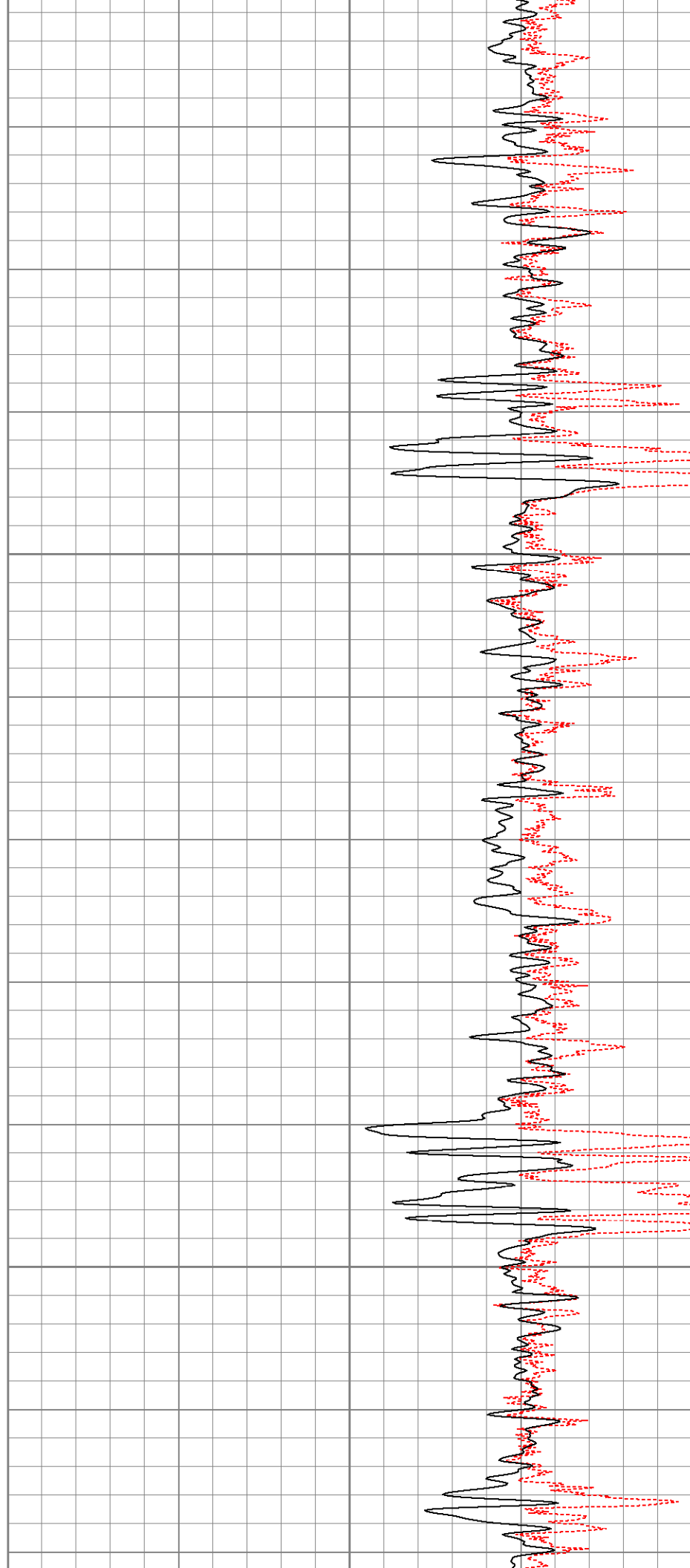
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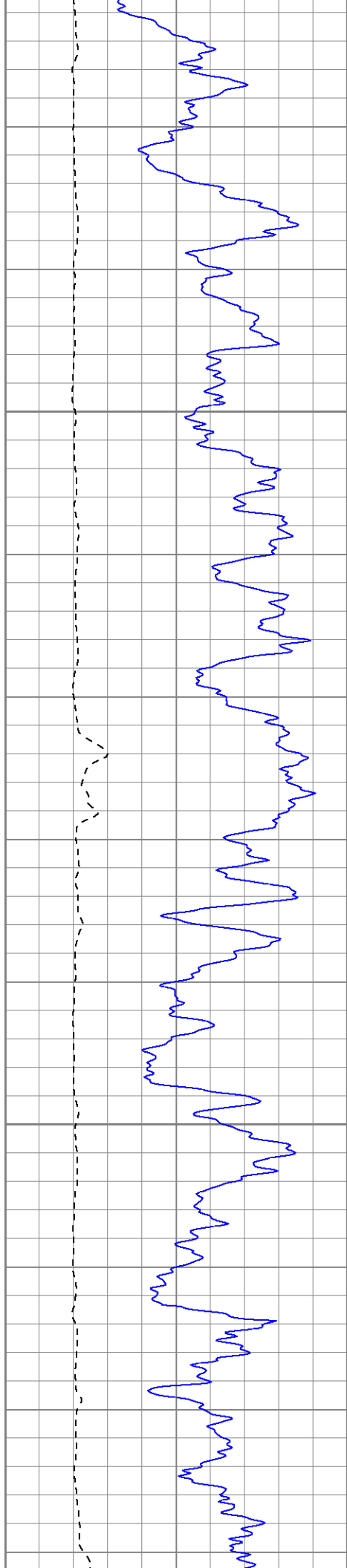




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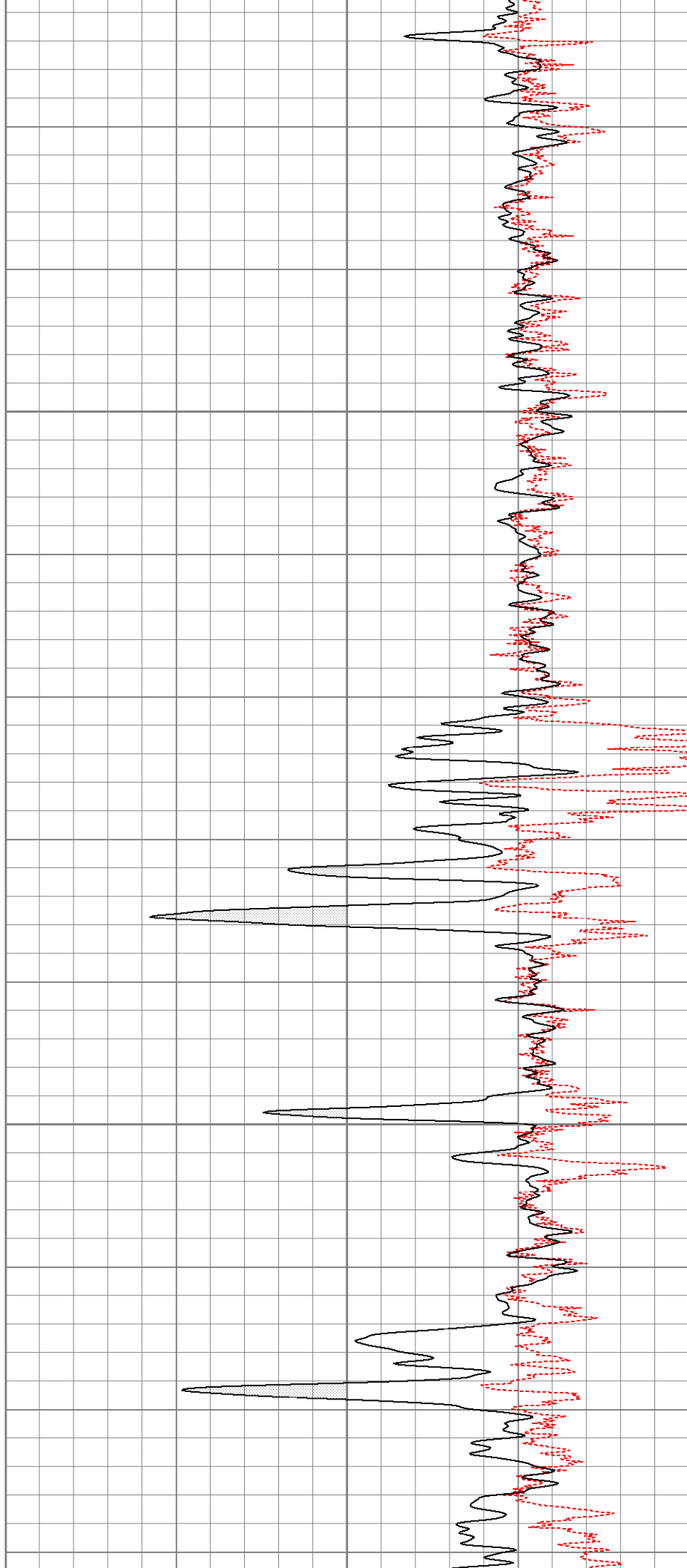
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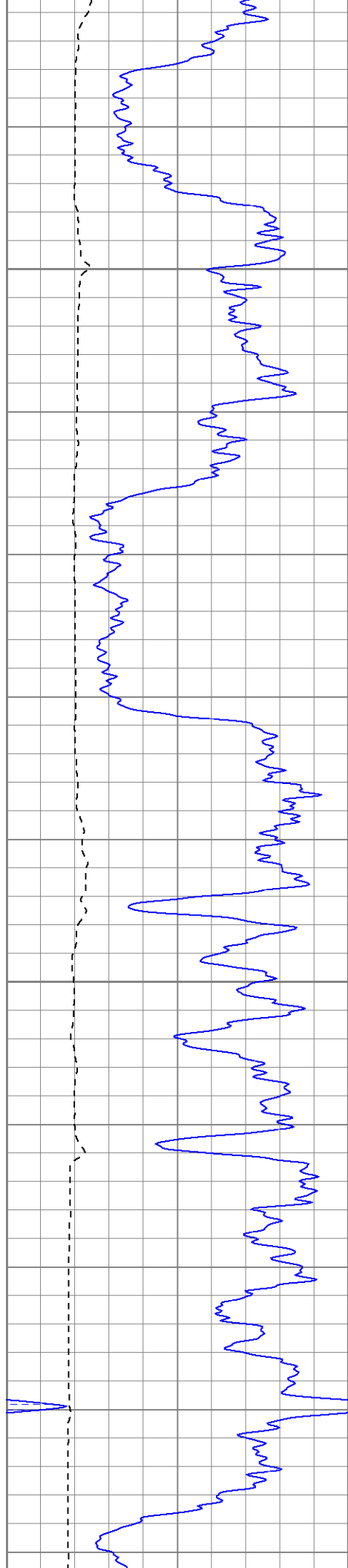




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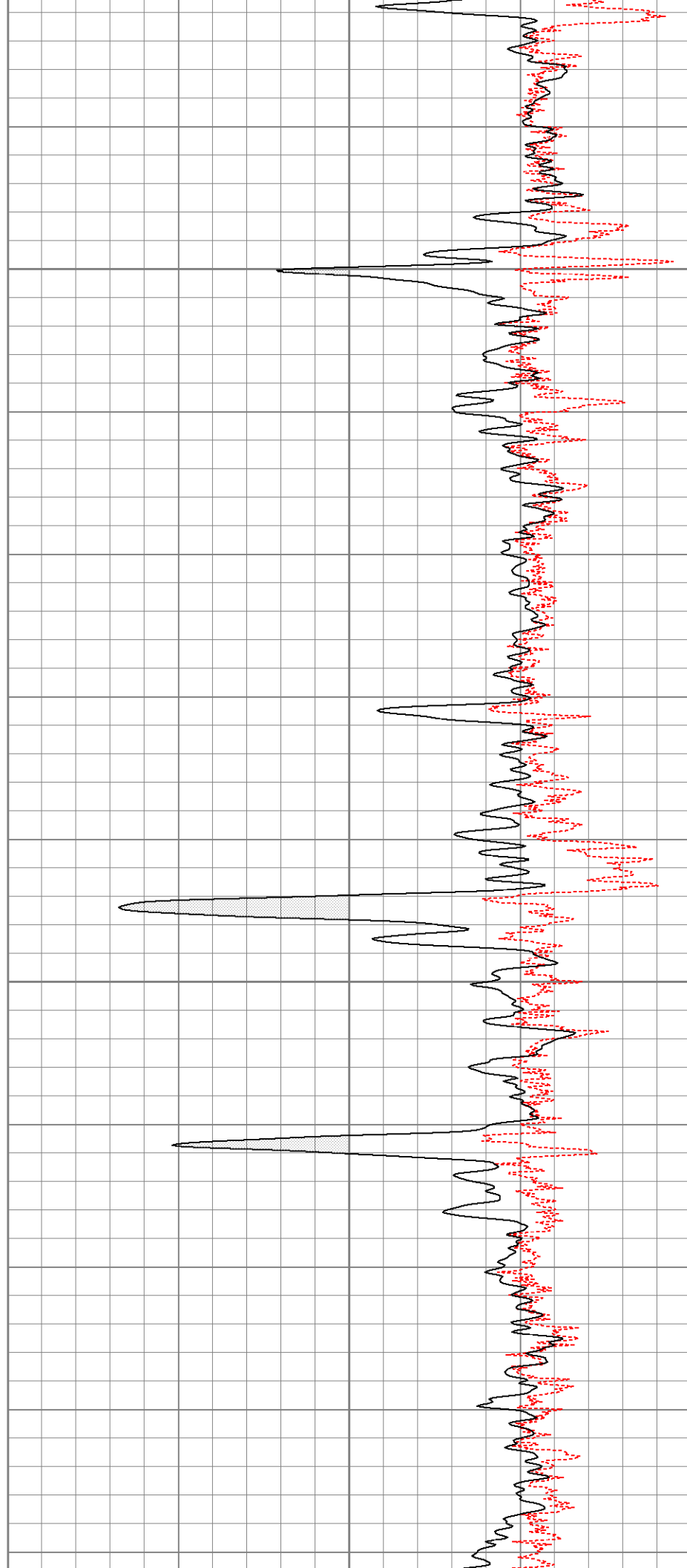
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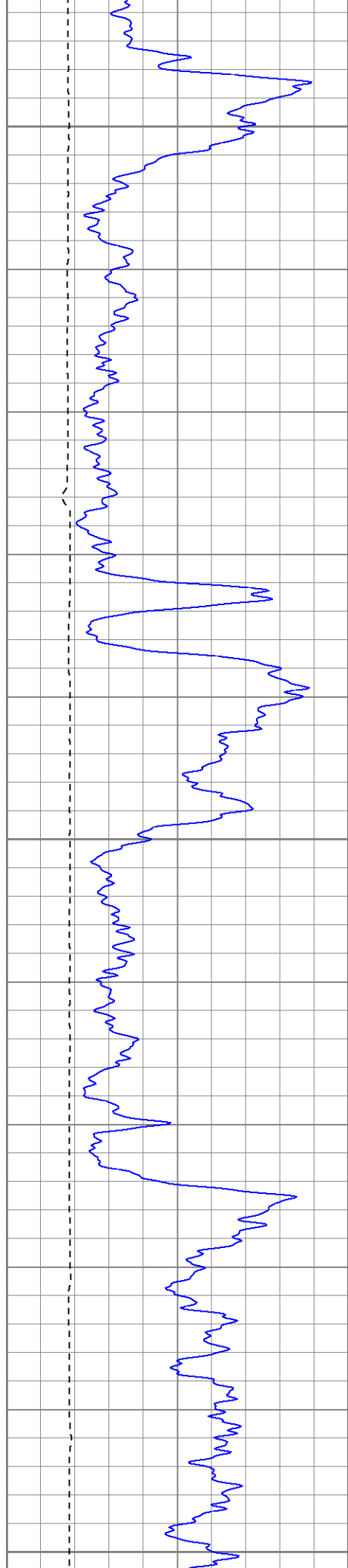




1300

1350

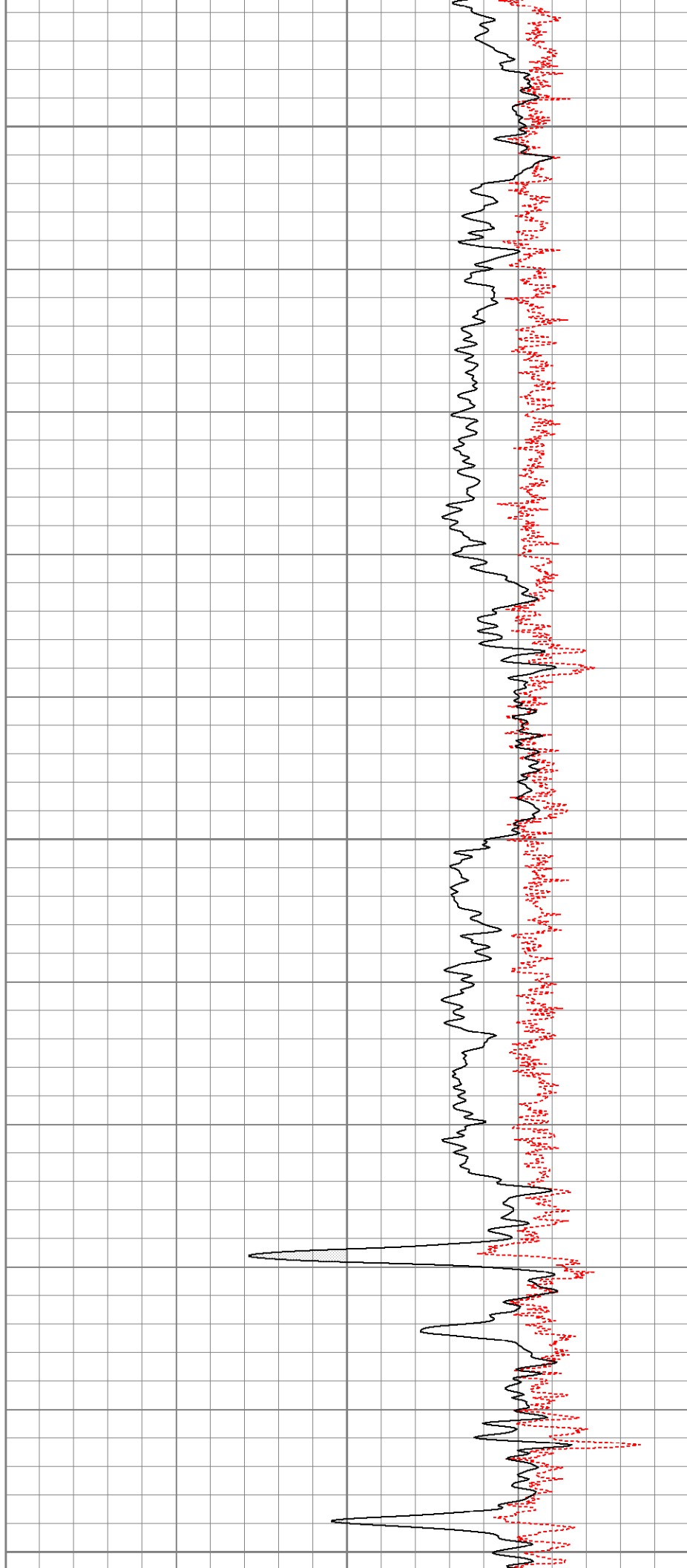


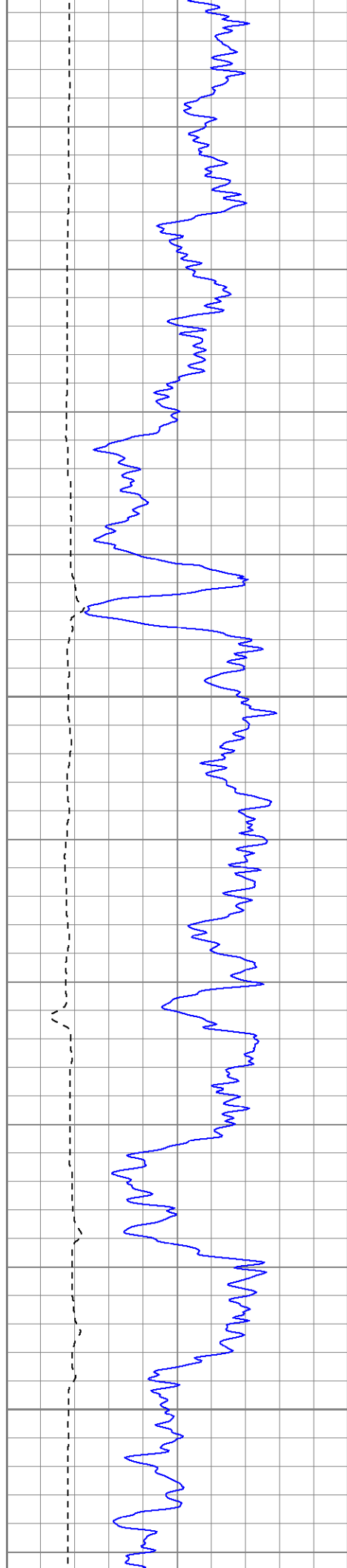


1400

1450

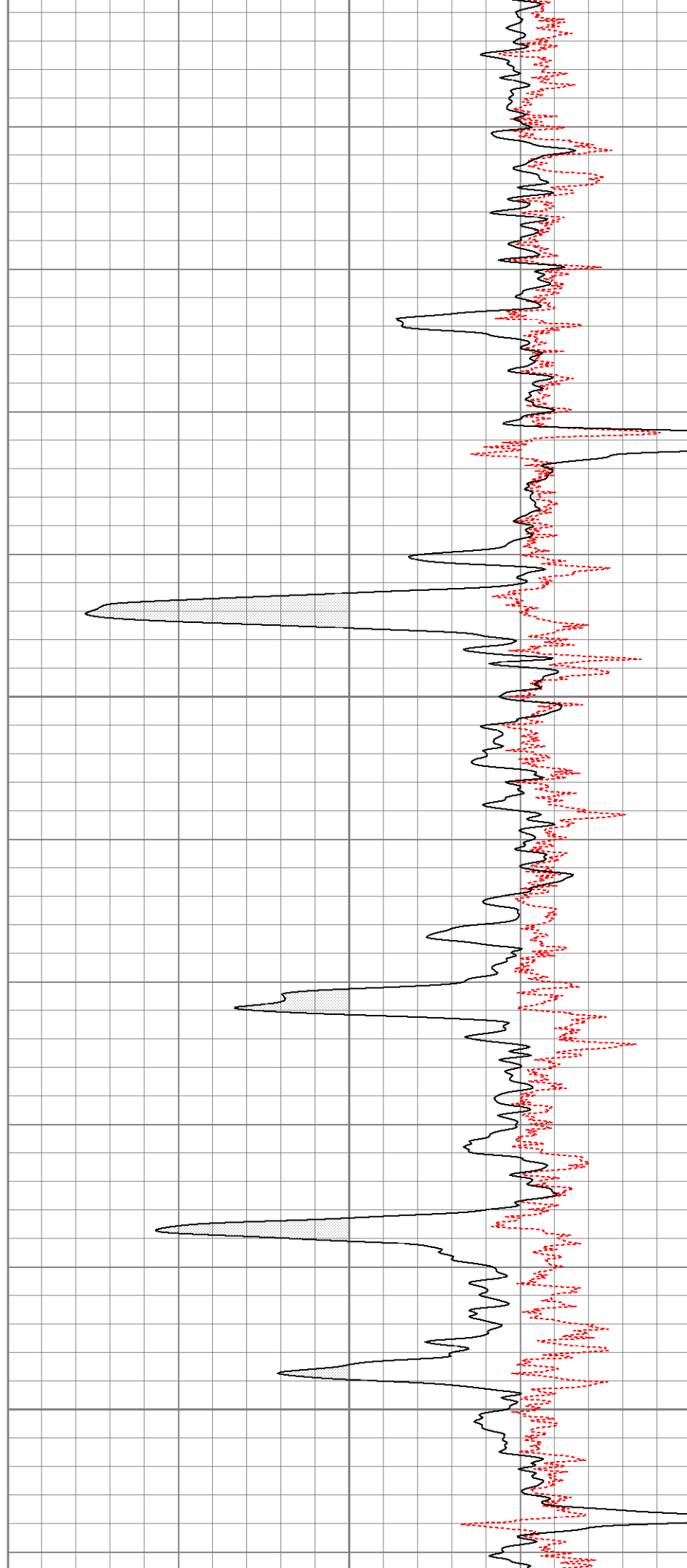
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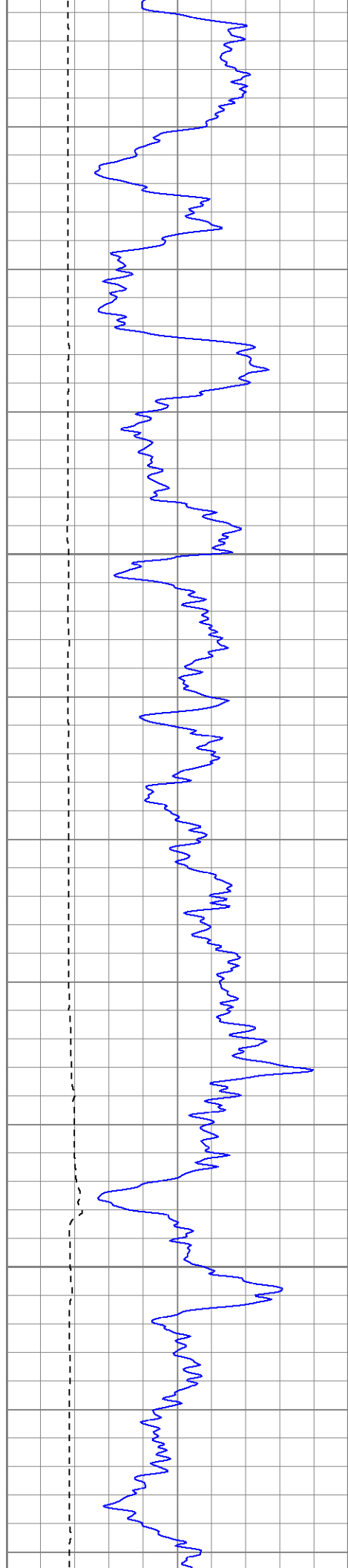




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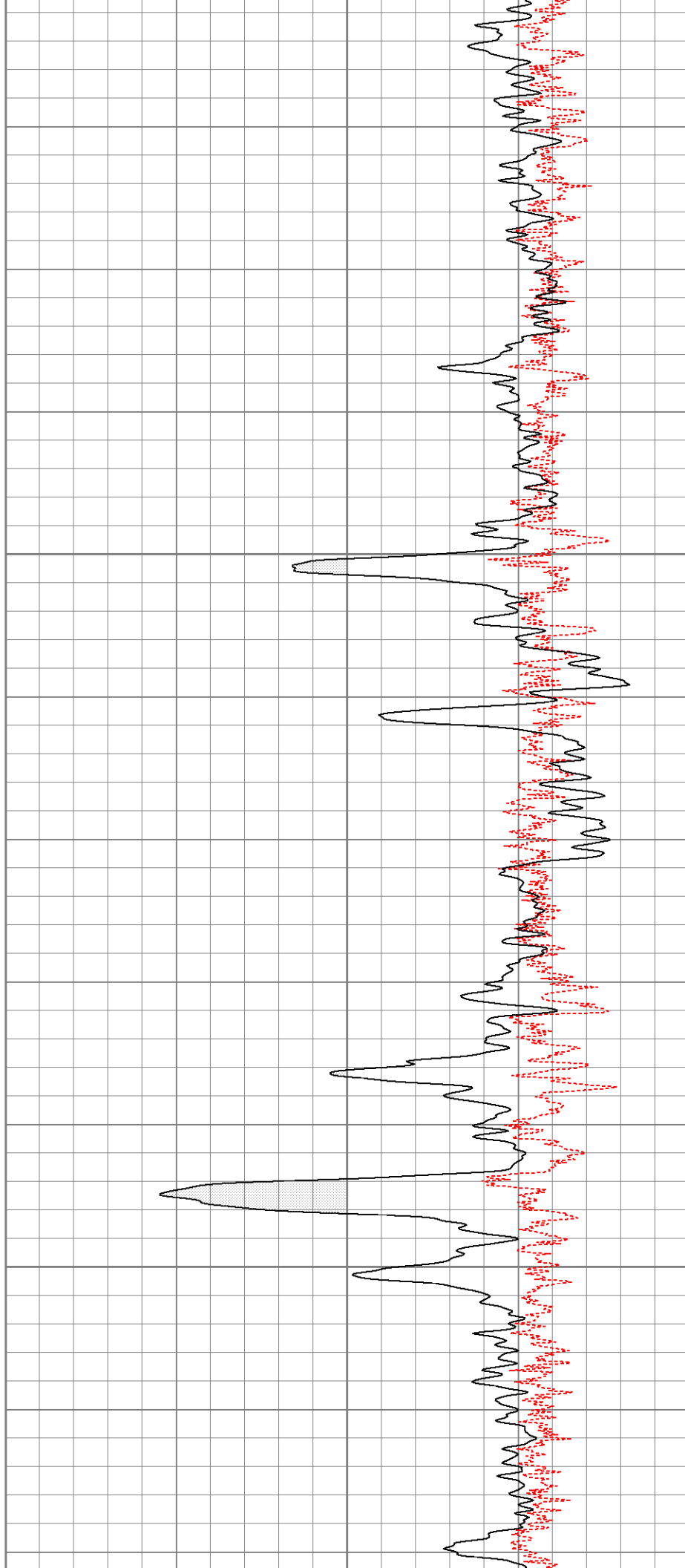
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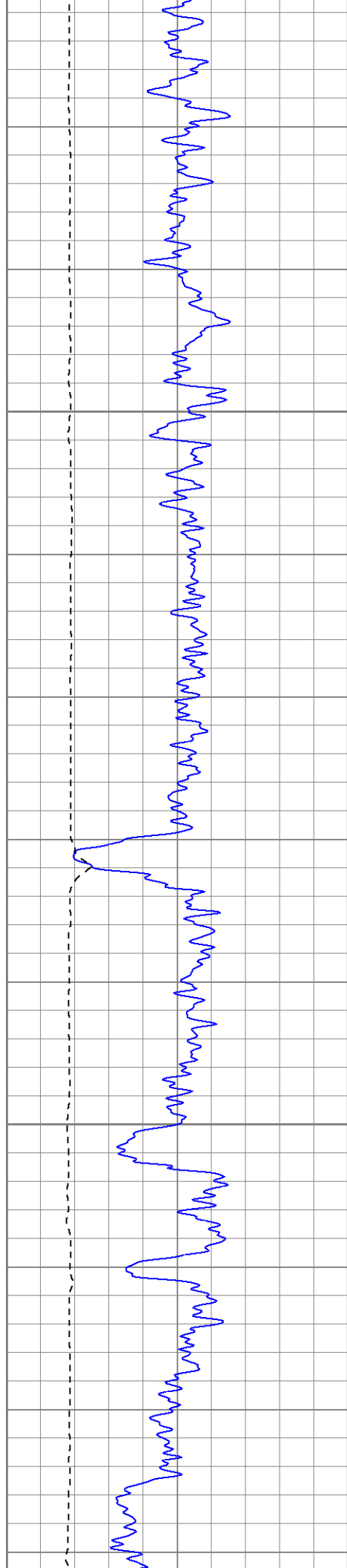




1650

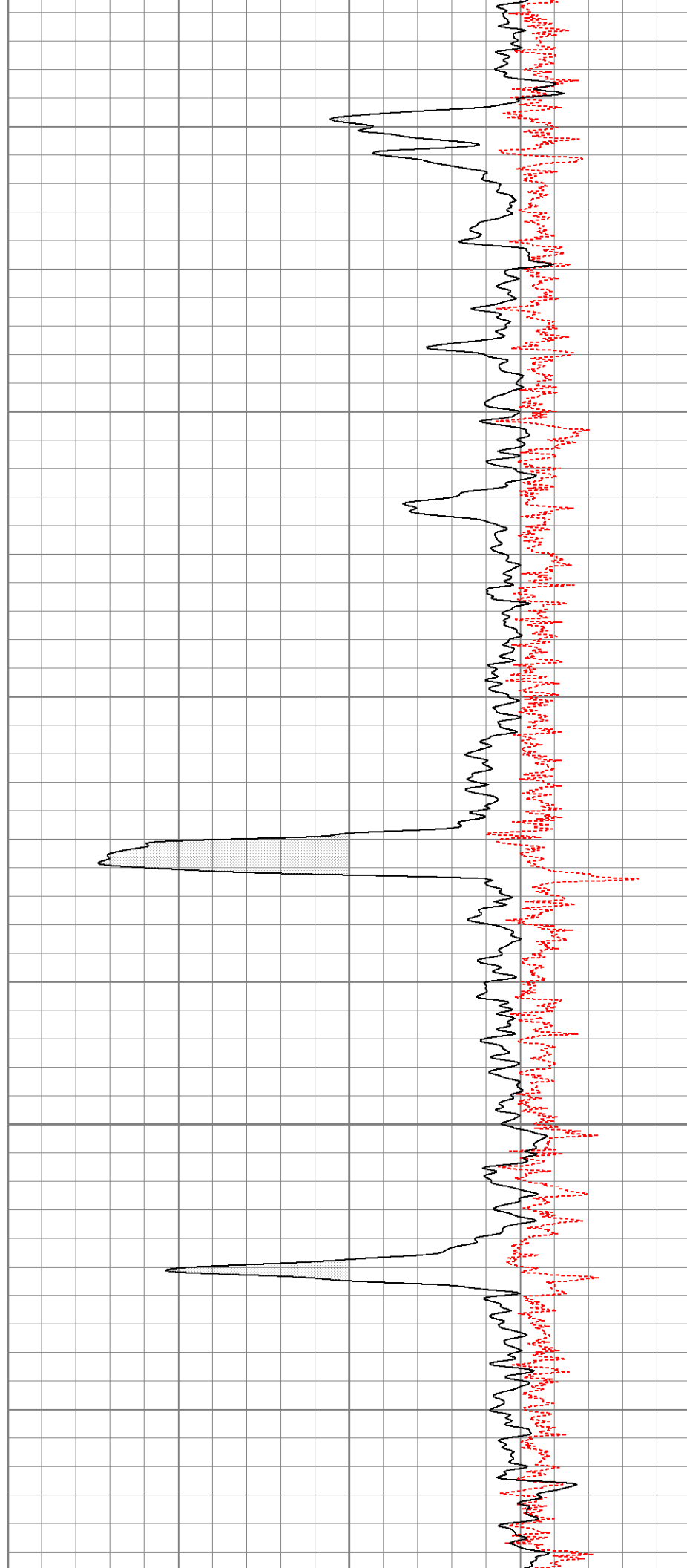
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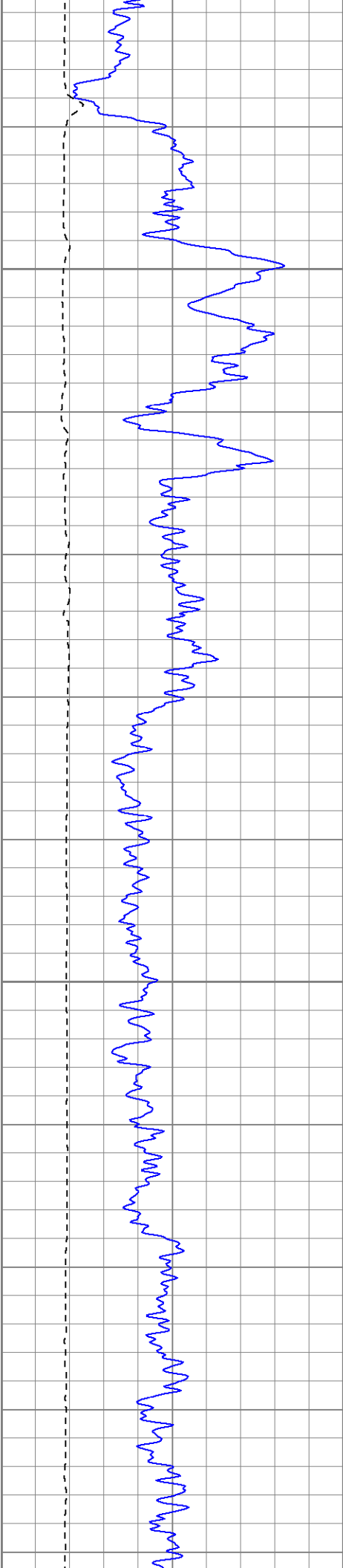




1750

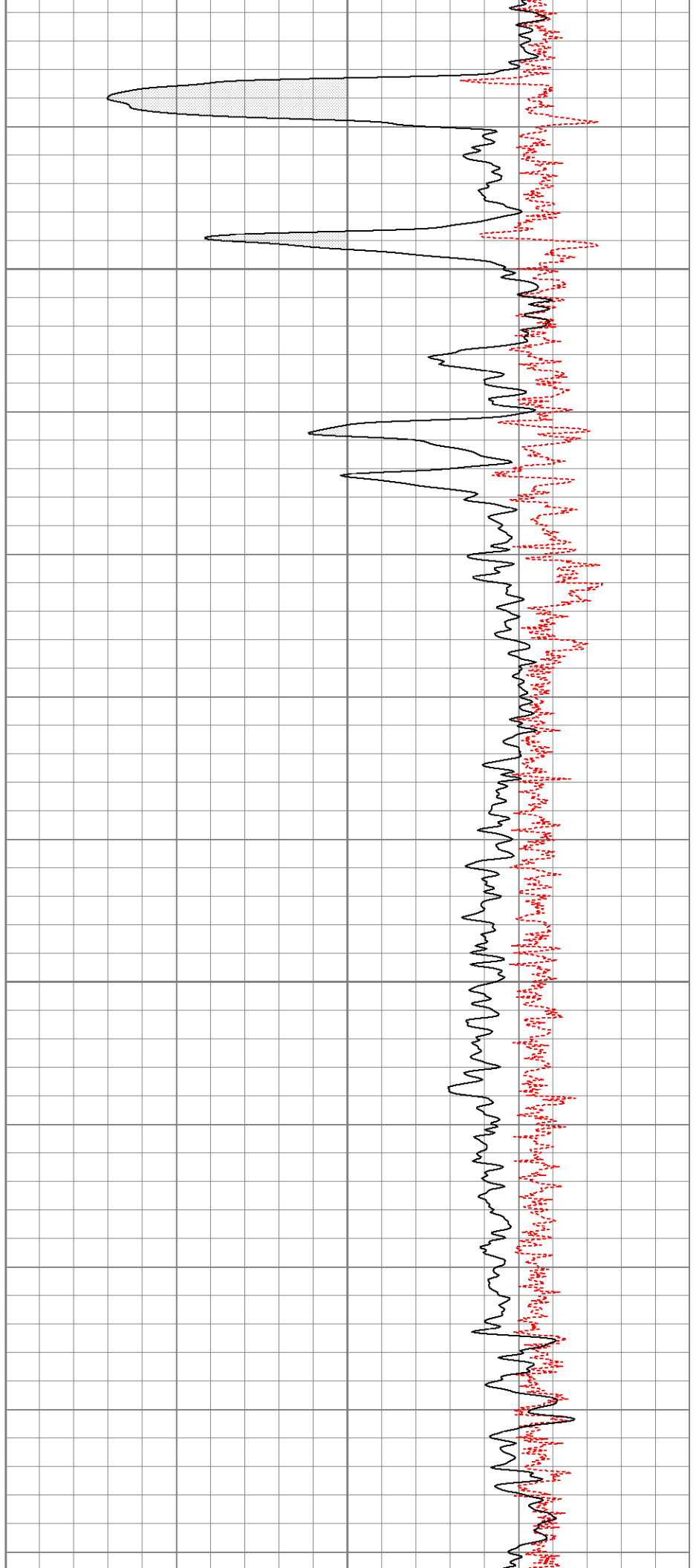
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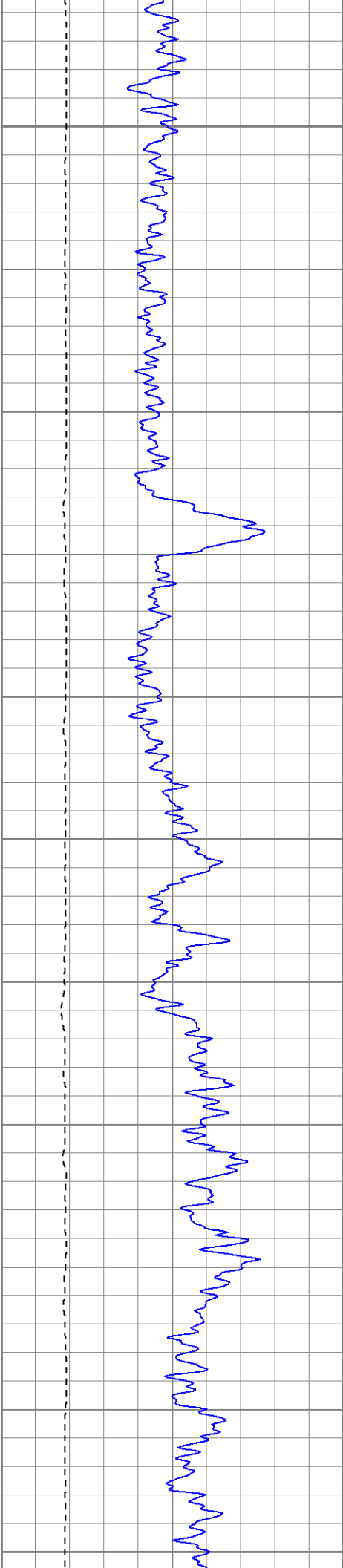




1850

1900

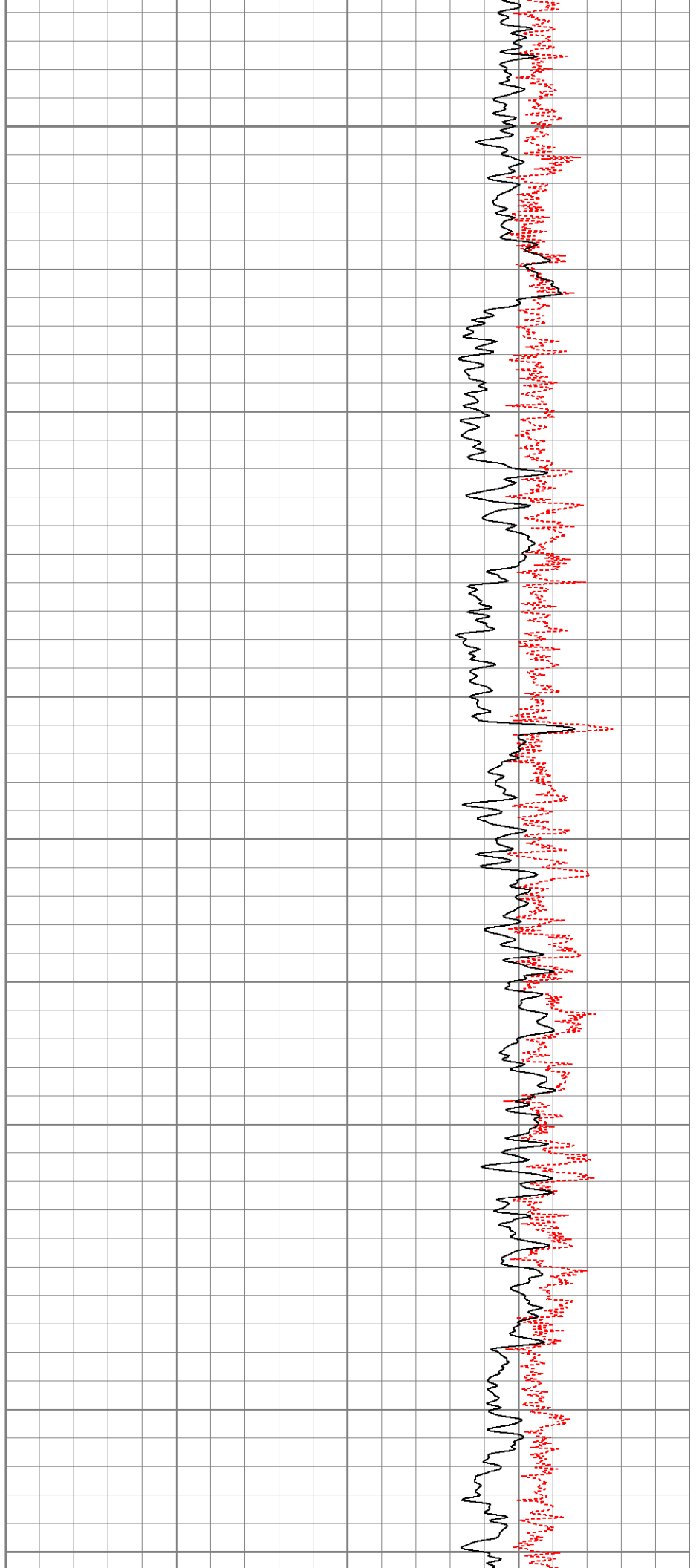


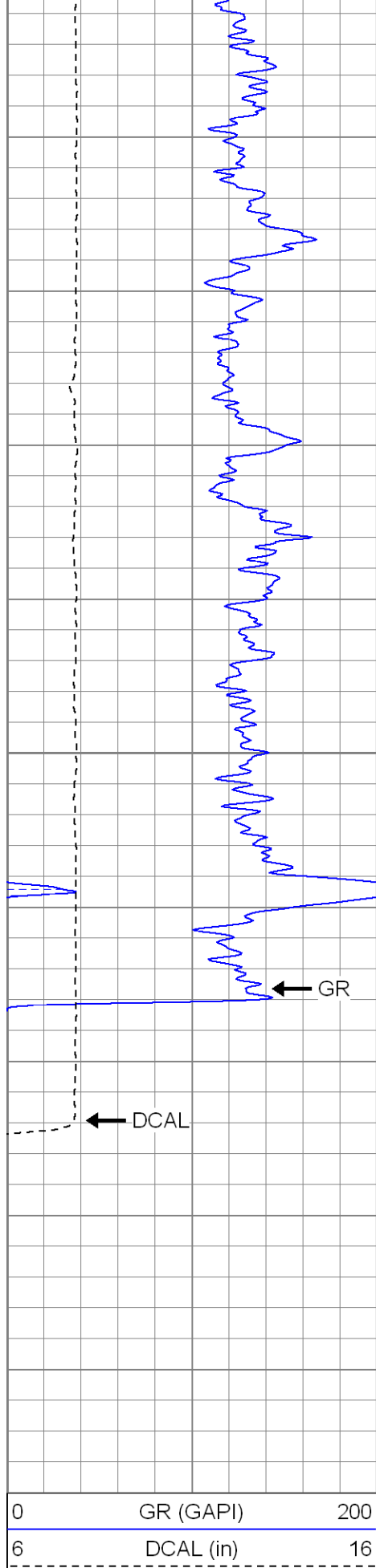


1950

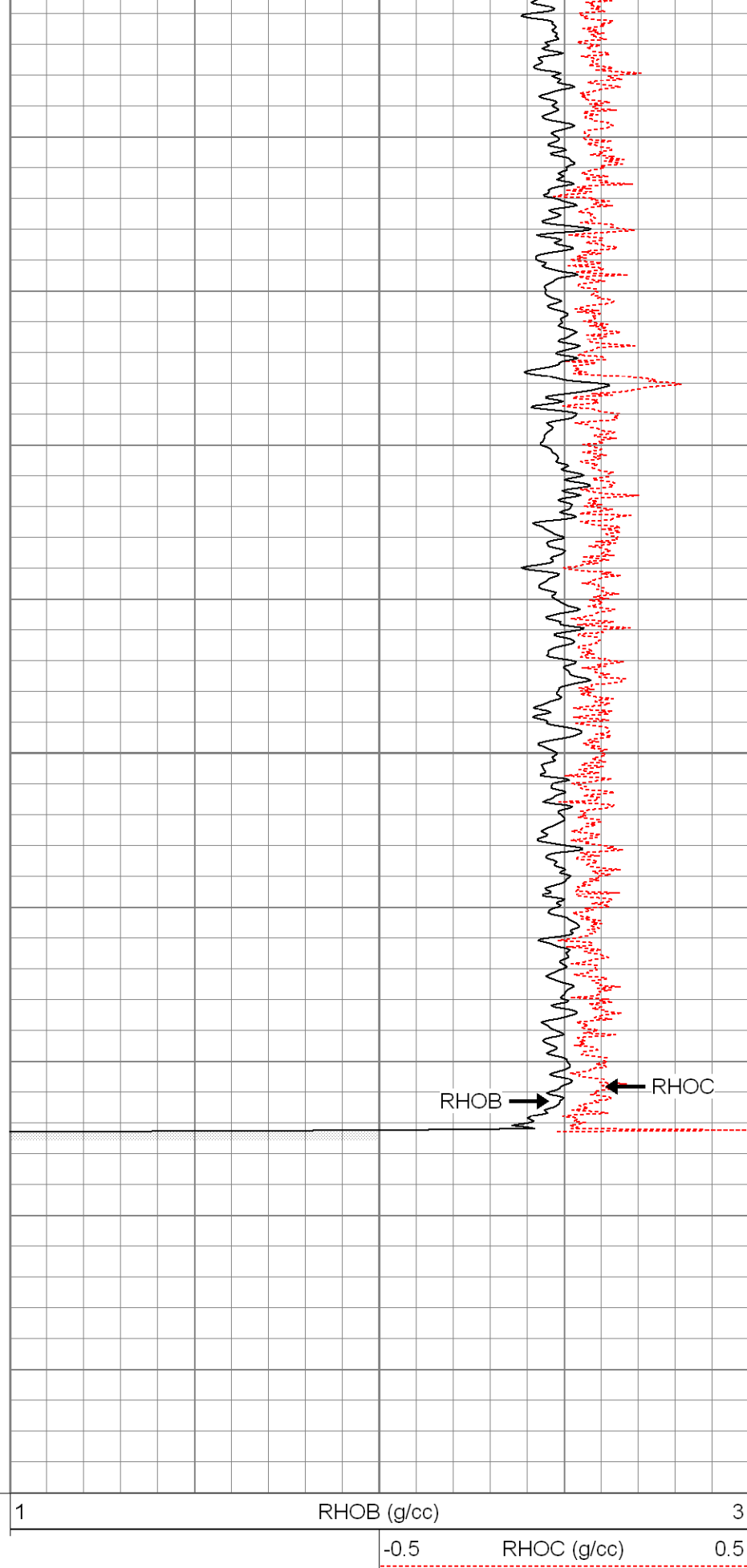
2000

2050





2100



Database File: xtoge3204.db
Dataset Pathname: pass2
Dataset Creation: Tue Jul 24 11:11:23 2007 by Log Open-Cased 061129

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Thu Jul 05 11:35:02 2007
Downhole Cal Performed: Thu Jul 05 11:35:16 2007

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.620	V	0.000	500.000	mmho-m	807.659	-1.119
Medium	0.005	0.743	V	0.000	550.000	mmho-m	744.727	-3.505
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.620	V	0.000	500.000	mmho-m	807.698	-1.159
Medium	0.005	0.743	V	0.000	550.000	mmho-m	744.801	-3.569

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.123	499.901	mmho-m	0.039	500.015	mmho-m	1.000	-0.084
Medium	0.245	549.982	mmho-m	0.064	550.009	mmho-m	1.000	-0.182
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: Wed Jul 11 09:42:26 2007

Master Calibration

Density			Far Detector	Near Detector
Magnesium	1.710	g/cc	665.94	685.05 cps
Aluminum	2.590	g/cc	149.68	463.33 cps
Spine Angle = 75.32			Density/Spine Ratio = 0.570	
Size			Reading	
Small Ring	7.85	in	4.15	V
Large Ring	14.00	in	9.25	V

Gamma Ray Calibration Report

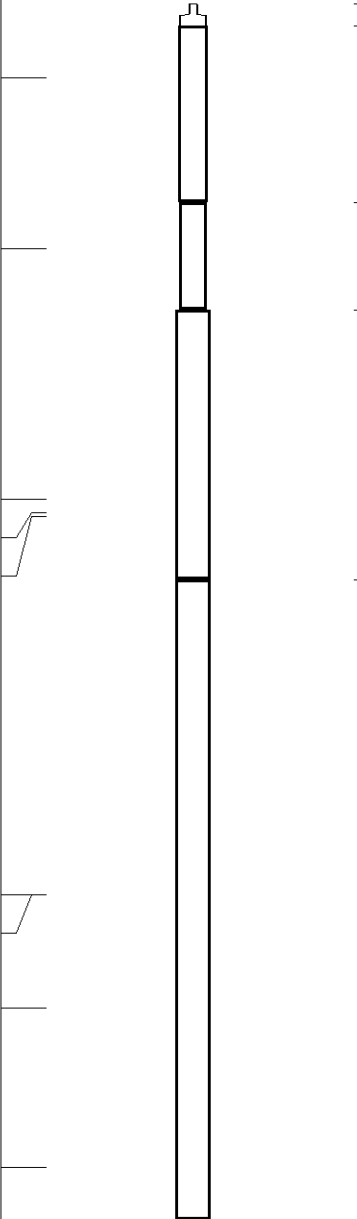
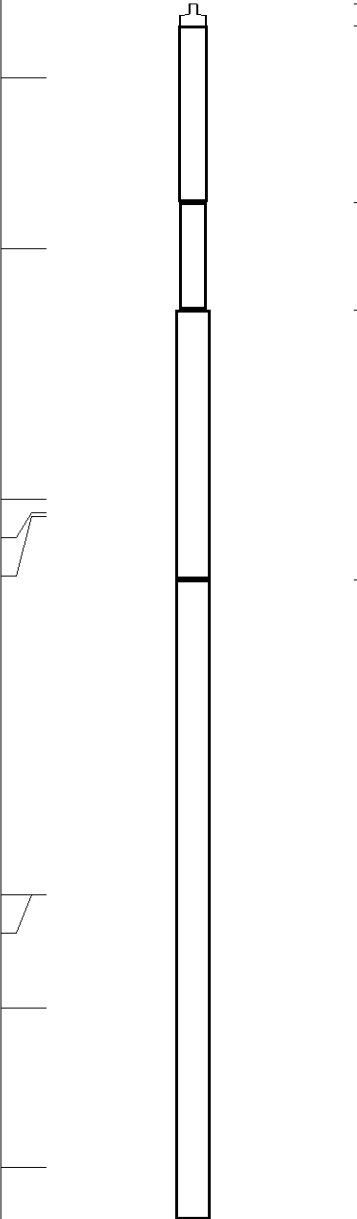
Serial Number: 2001
Tool Model: OH
Performed: Tue Jul 10 07:42:35 2007

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.1300 GAPI/cps

Neutron Calibration Report		
Serial Number:	5145	
Tool Model:	G	
Performed:	Sat Jul 21 07:01:21 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	
LSD	23.45		CDL-poilex (2118)	8.79	4.00	275.00	
DCAL	23.04						
SSD	22.91						
CILD SP	10.60 10.60		DIL-G (5375) Gearhart	20.83	4.00	345.00	
CILM	6.89						
RLL3	1.70						
Dataset: xtoge3204.db: field/well/run1/pass2 Total Length: 39.62 ft Total Weight: 750.00 lb O.D. 4.00 in							