



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 33-15
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09480 00

530' FSL & 2121' FEL

DIL

SEC 33 TWP 33S RGE 67W

Permanent Datum Ground Level Elevation 7705'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 7705'

Date 2-27-08

Run Number One

Depth Driller 2300'

Depth Logger 2304'

Bottom Logged Interval 2282'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 451'

Casing Logger 451'

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 10:00 A.M.

Time Logger on Bottom 1:50 P.M.

Maximum Recorded Temperature 119 DEG F

Equipment Number T697

Location Trinidad

Recorded By J. Cappellucci

Witnessed By Mr. Dalton King

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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

Neutron Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Neutron Porosity Invalid From 1820' to 1550'.
Well Directions:
1st Bosque Entrance to Cherry Canyon, Past Compressor Station 5,
Up to first 4 way, stay left, take first right to location.



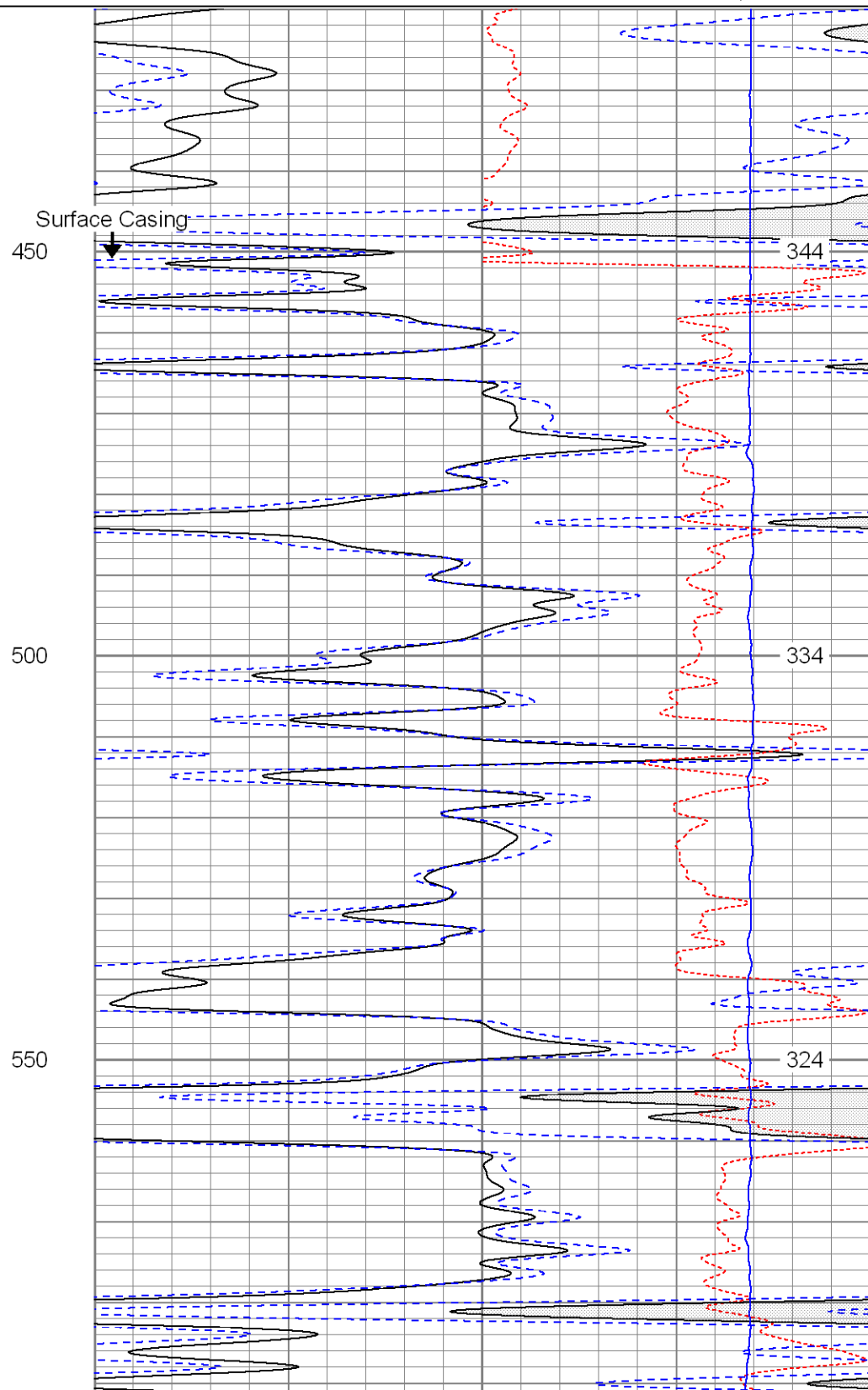
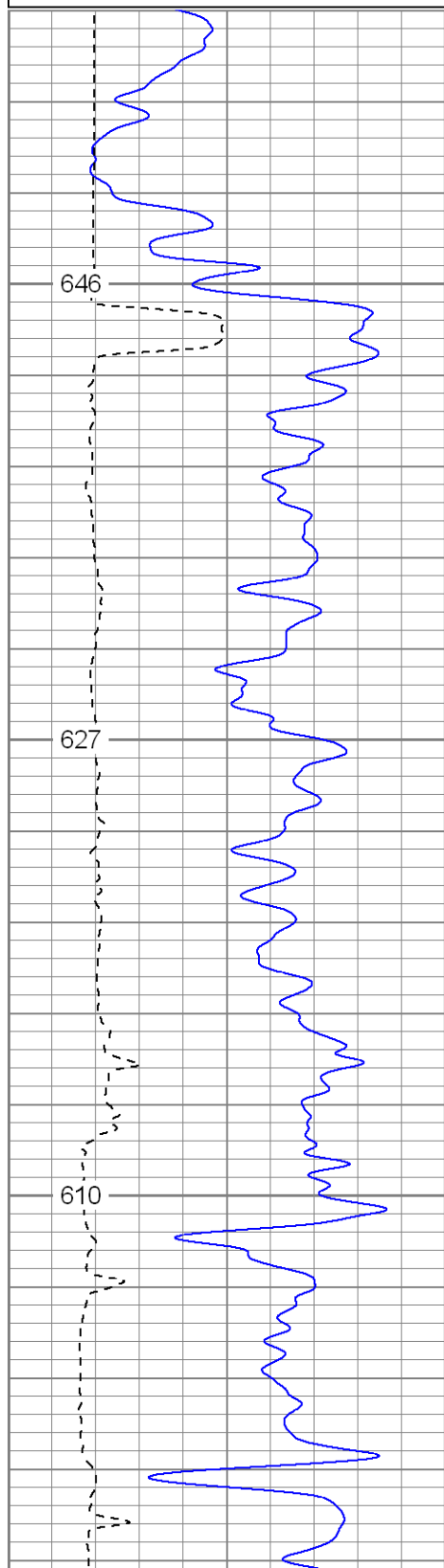
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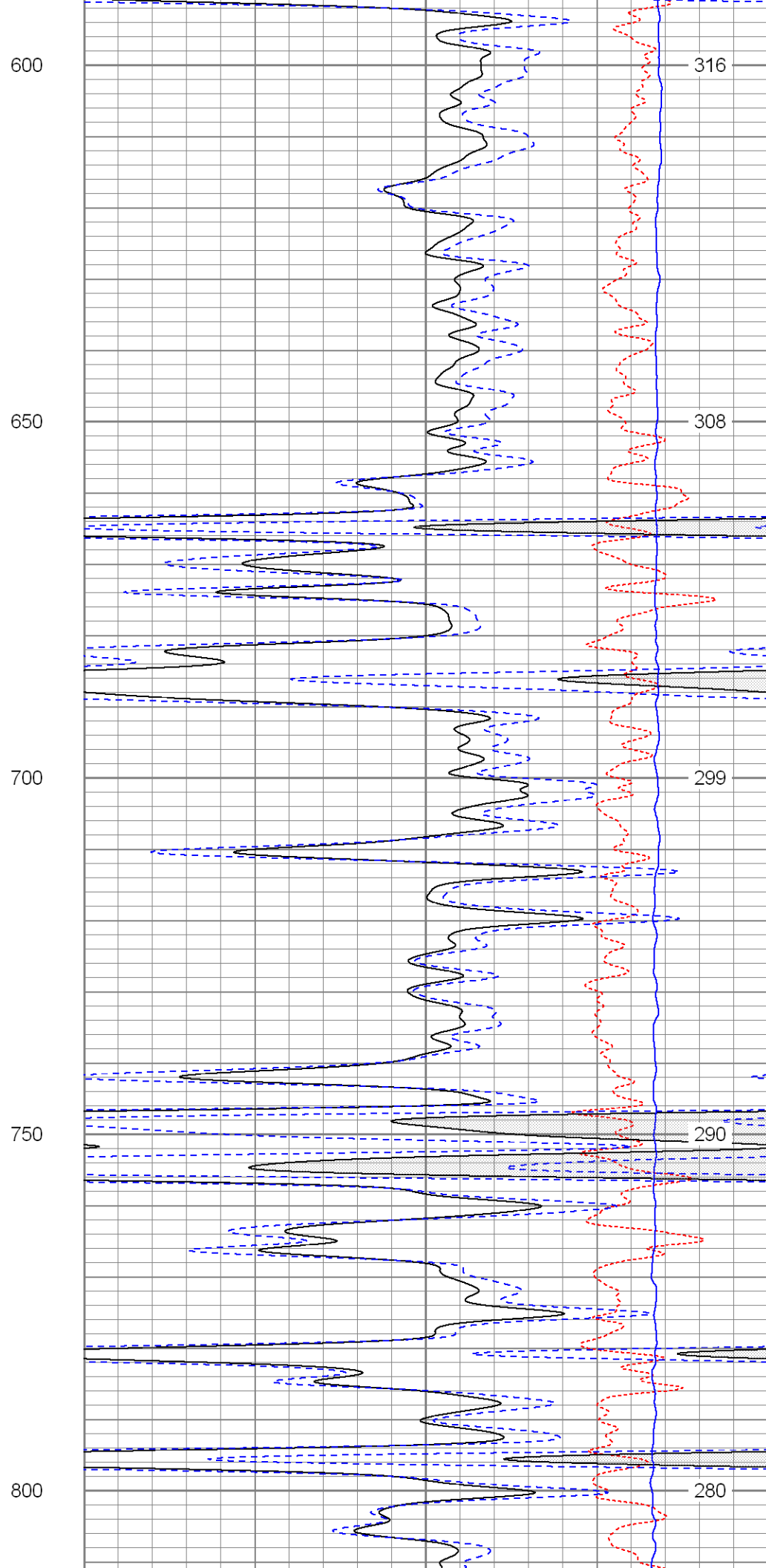
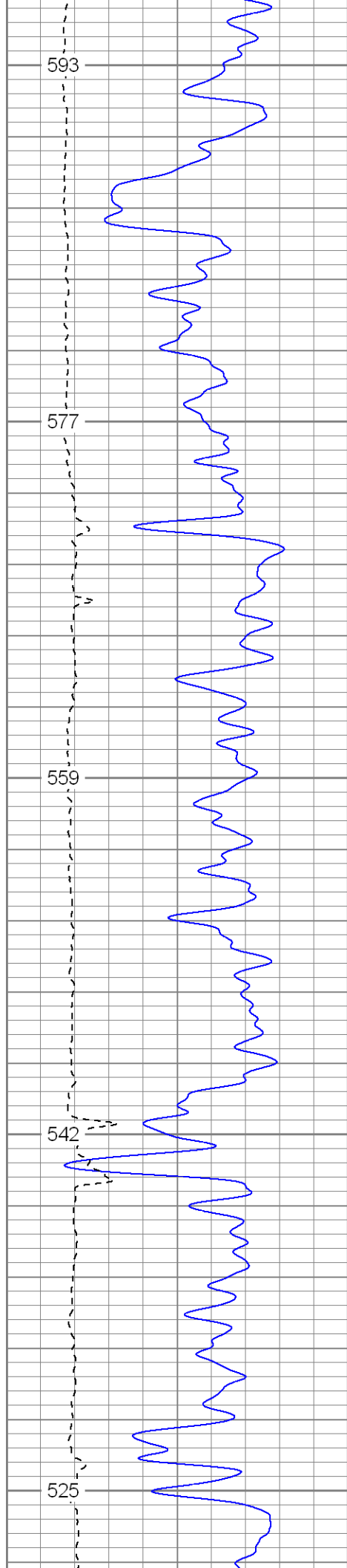
Main Pass

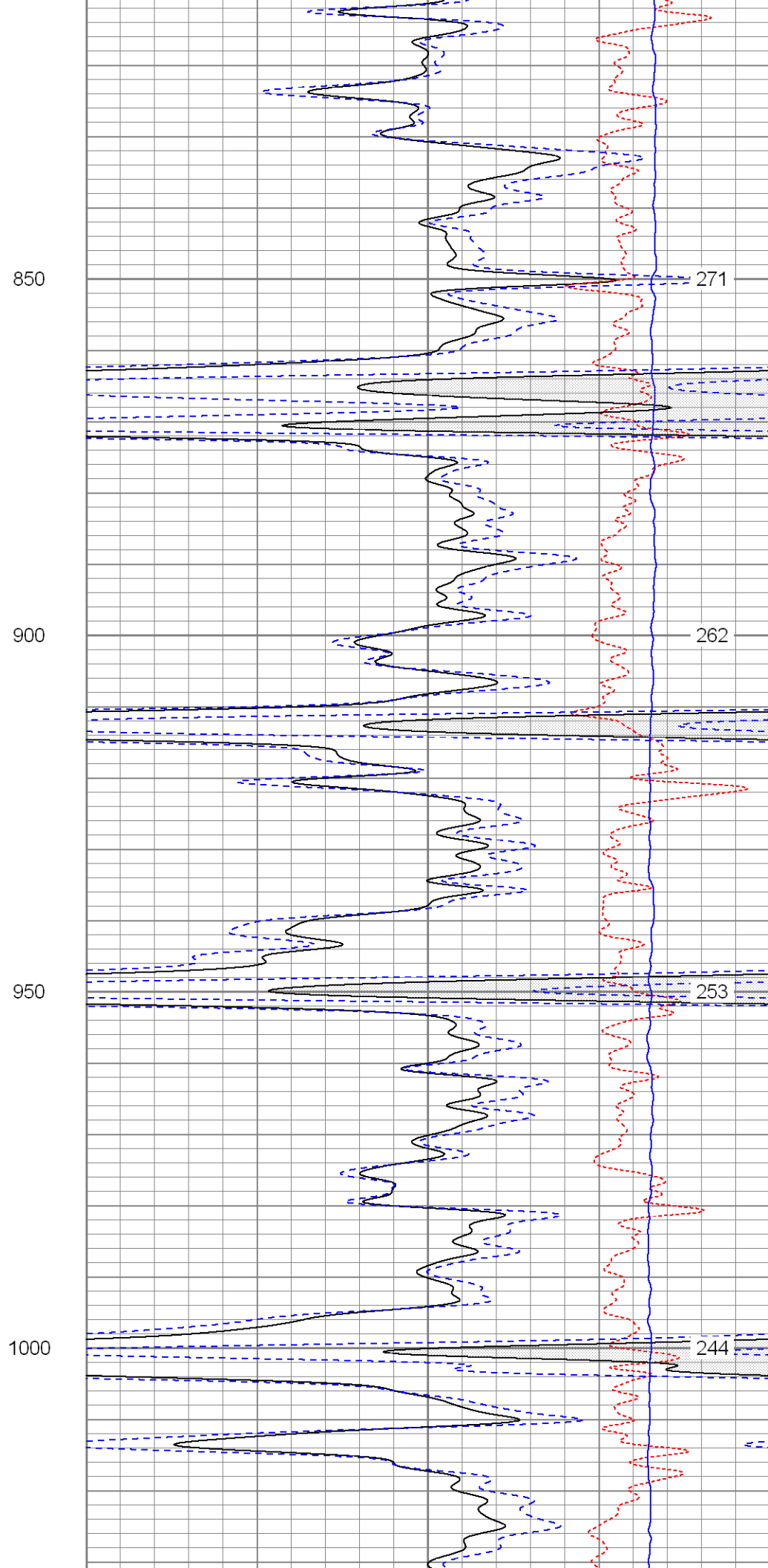
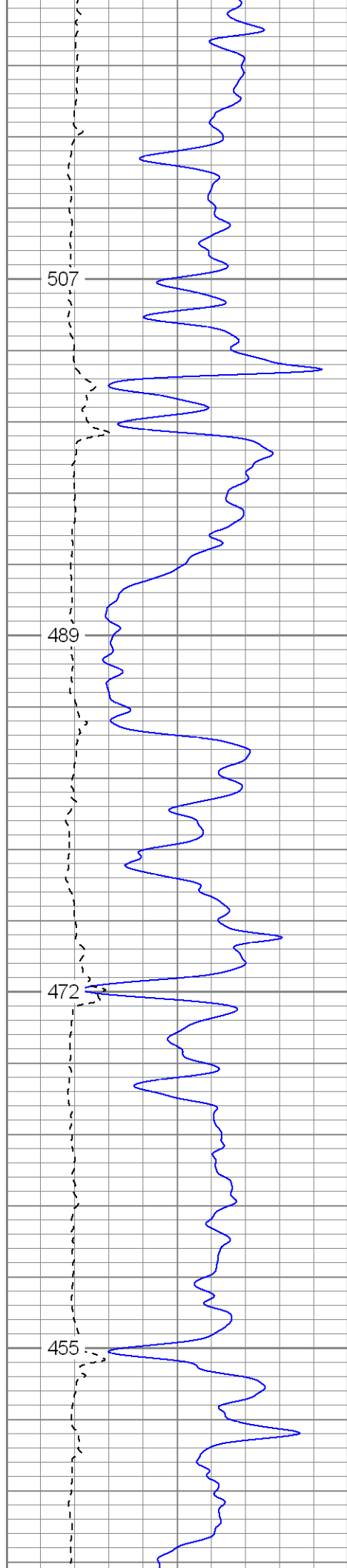
Database File: xtoge3315.db
Dataset Pathname: pass3.1
Presentation Format: cdl
Dataset Creation: Wed Feb 27 16:45:37 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

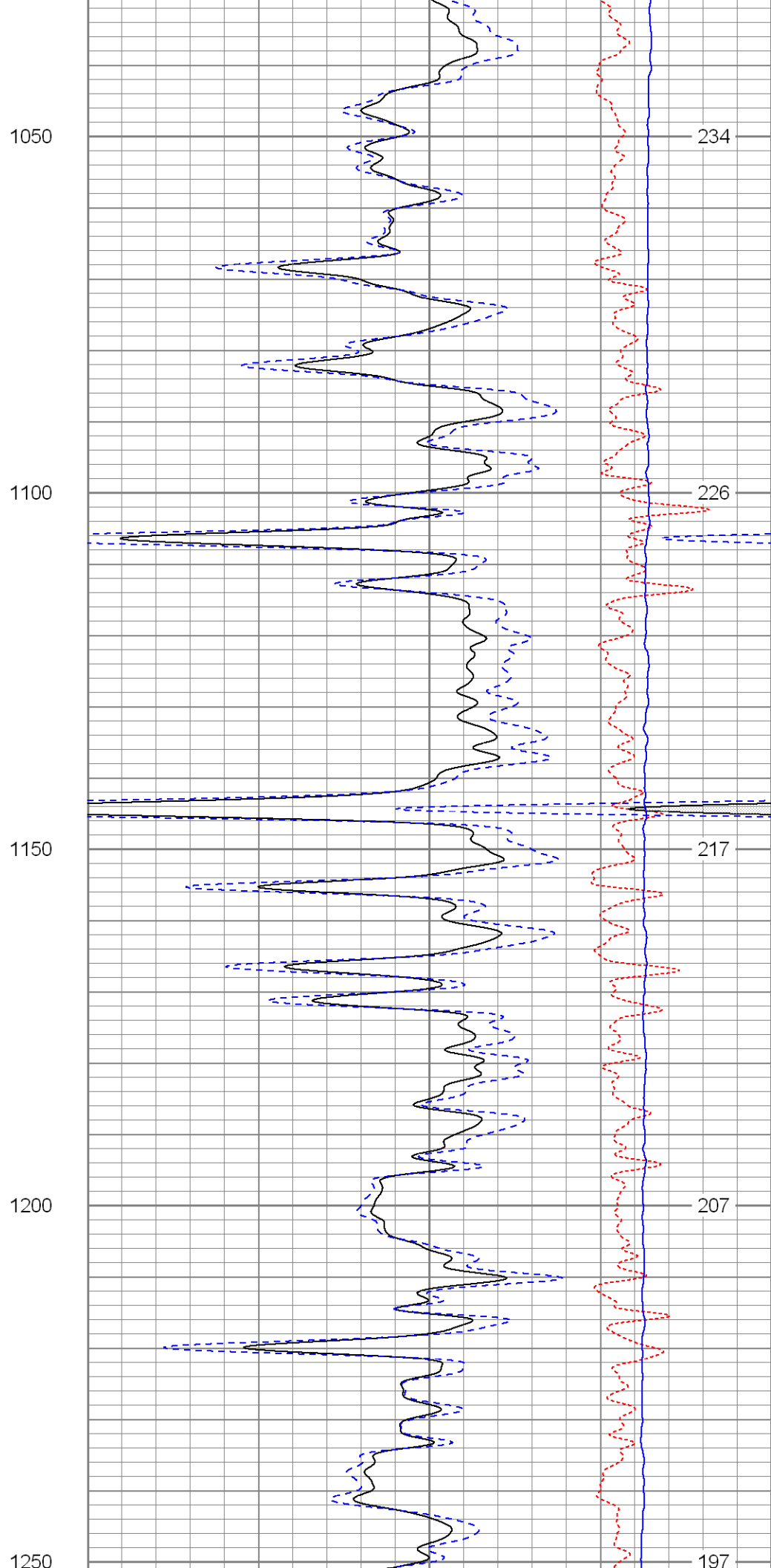
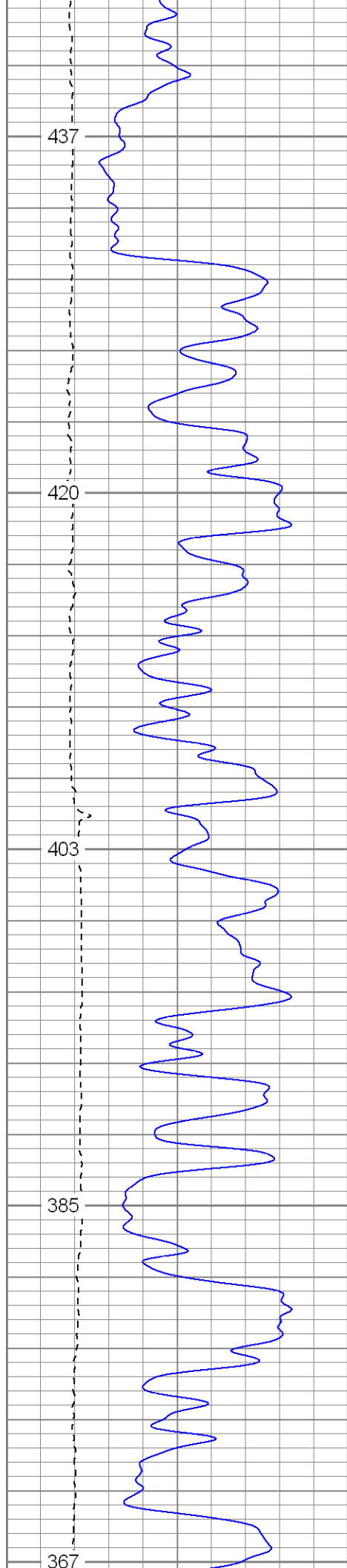
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

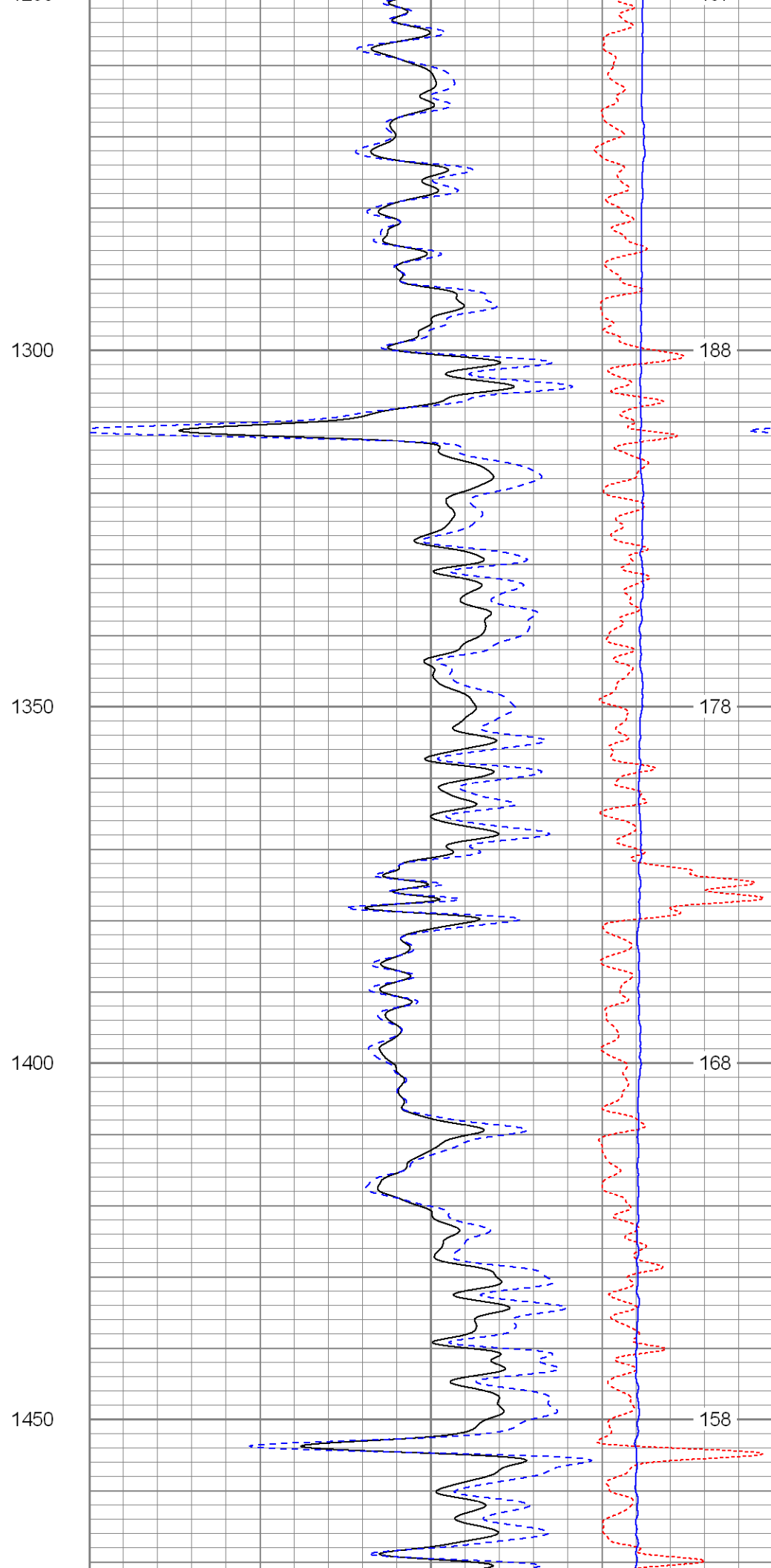
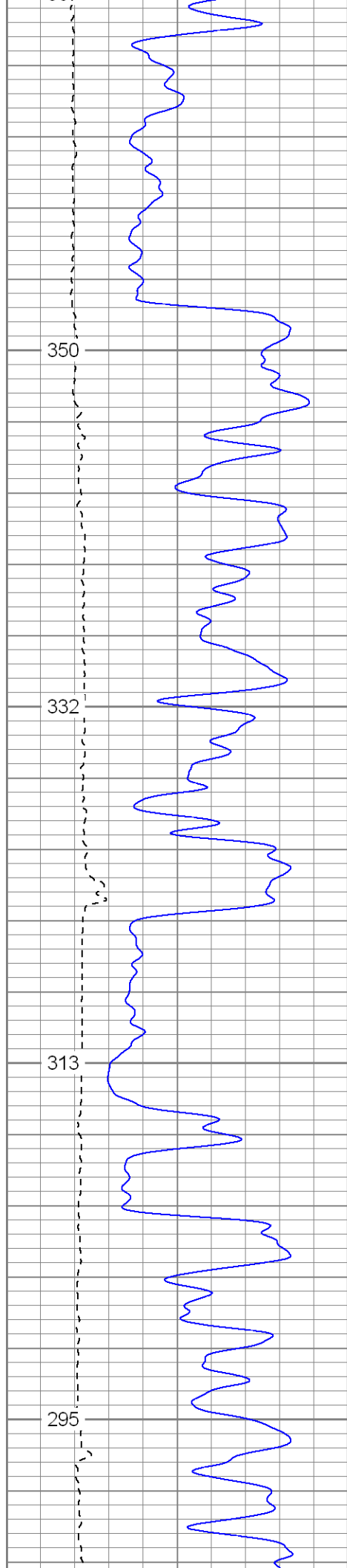
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5 RHOC (g/cc) 0.5		
4000 LTEN (lb) 0		
ABHV (ft3)		

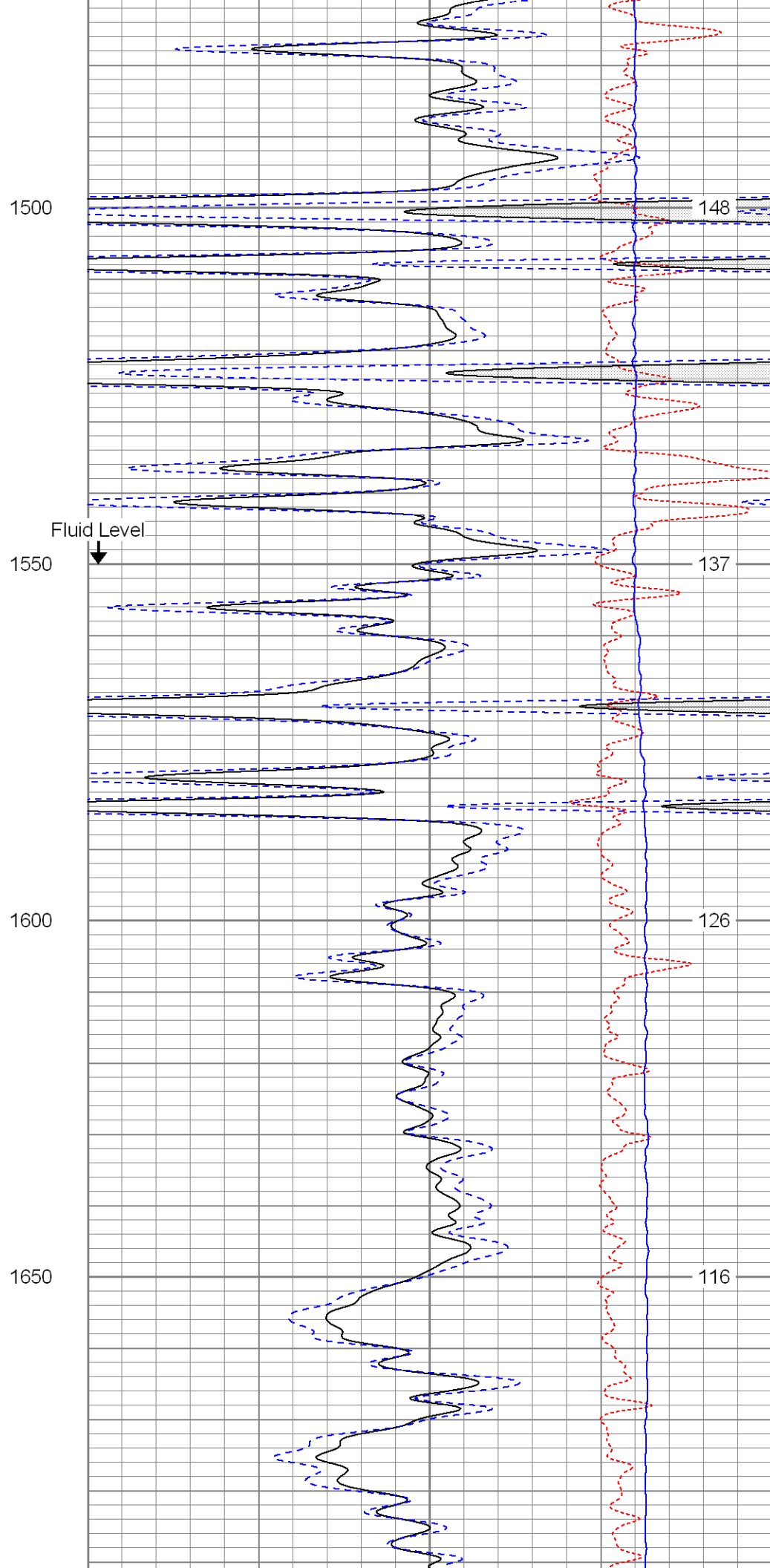
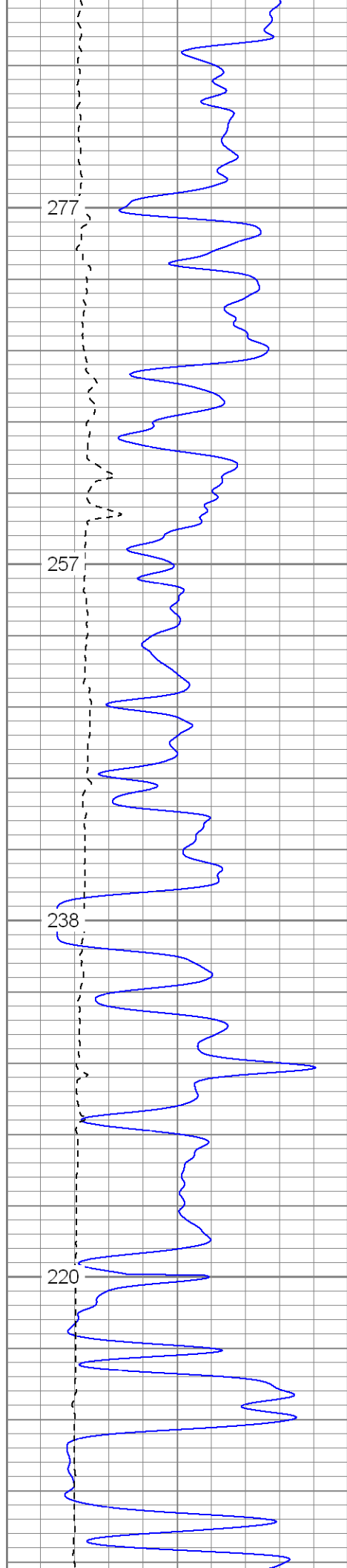


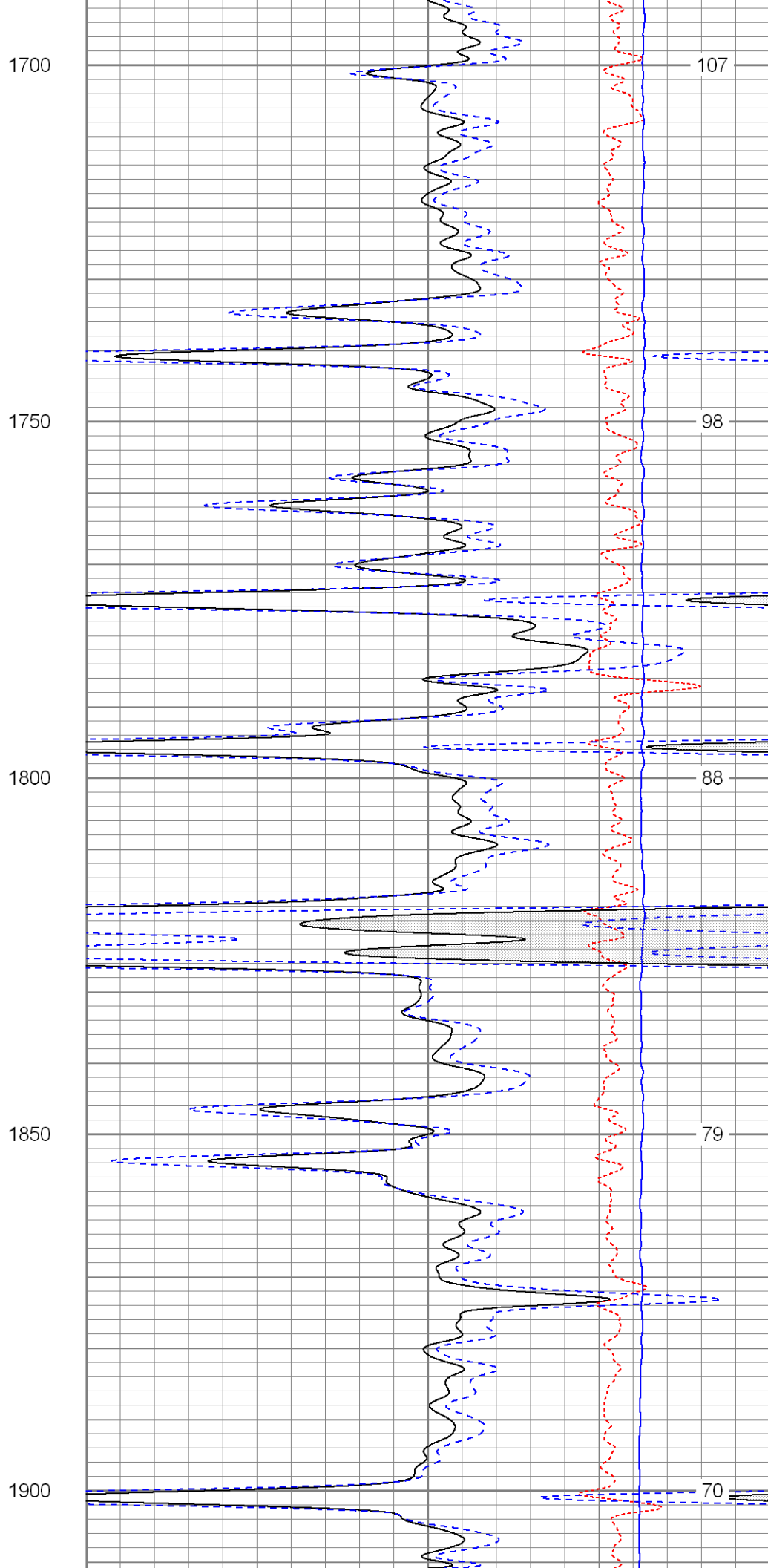
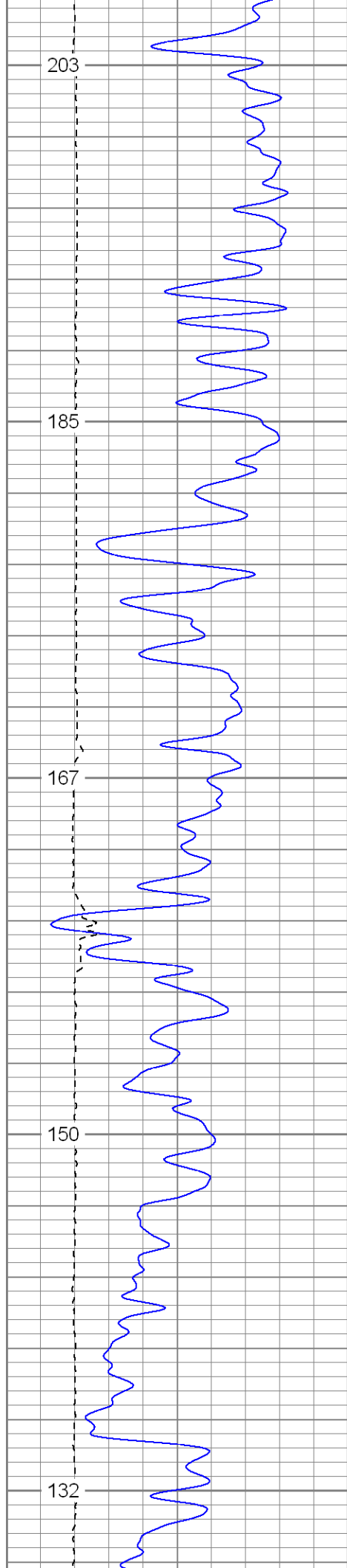


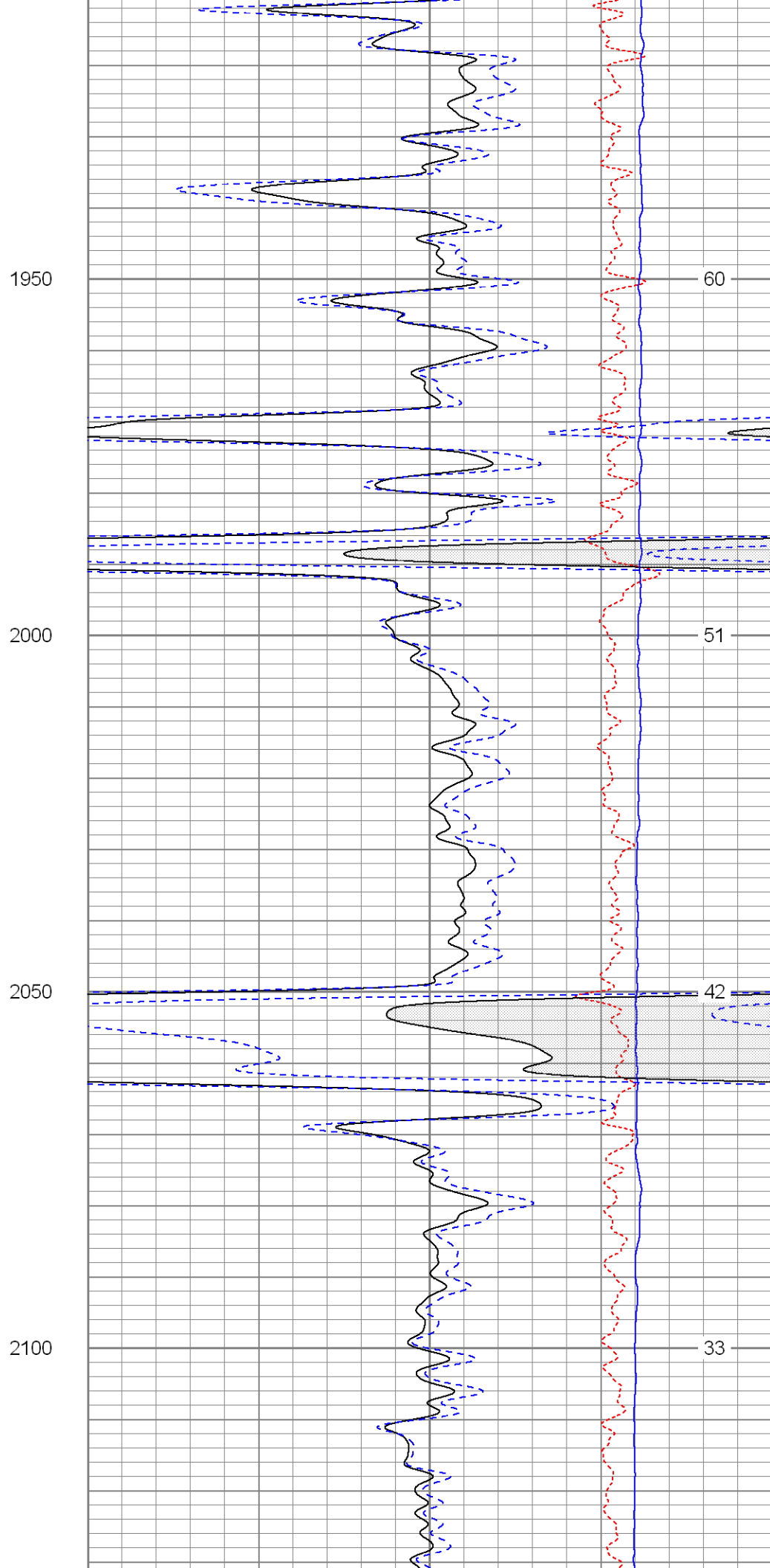
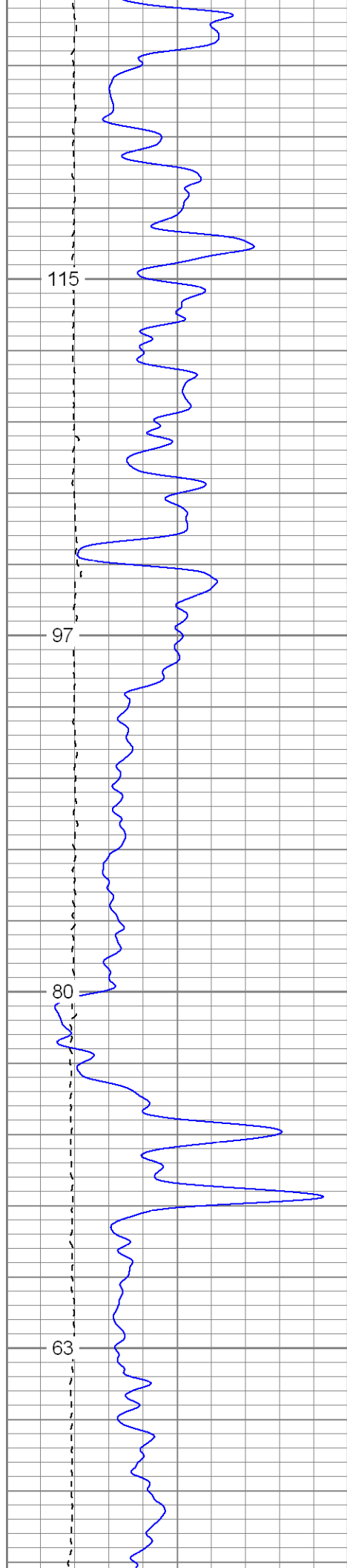


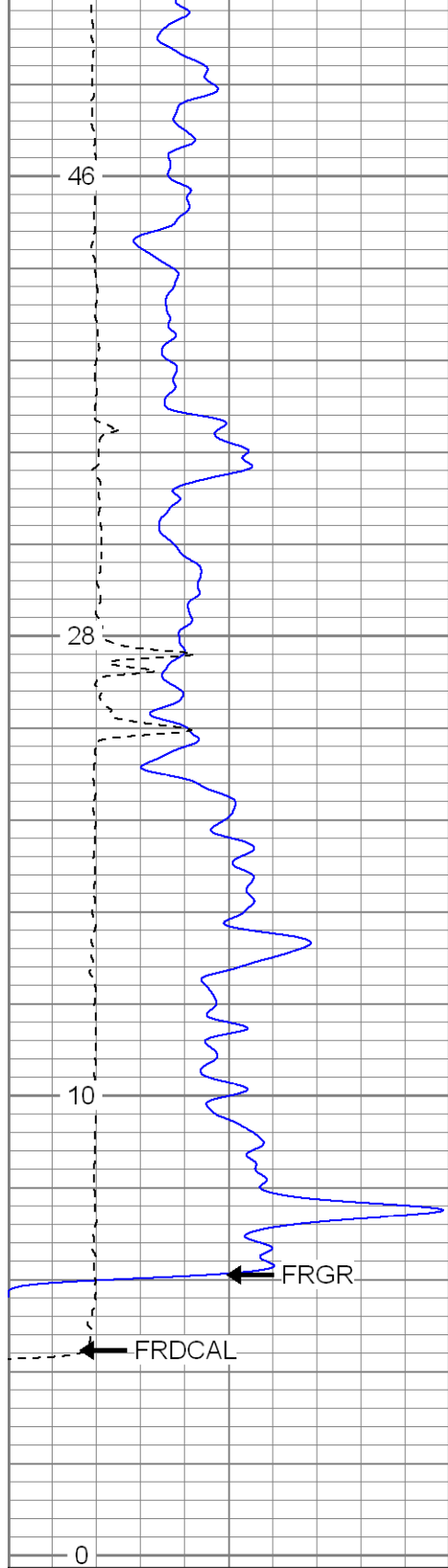




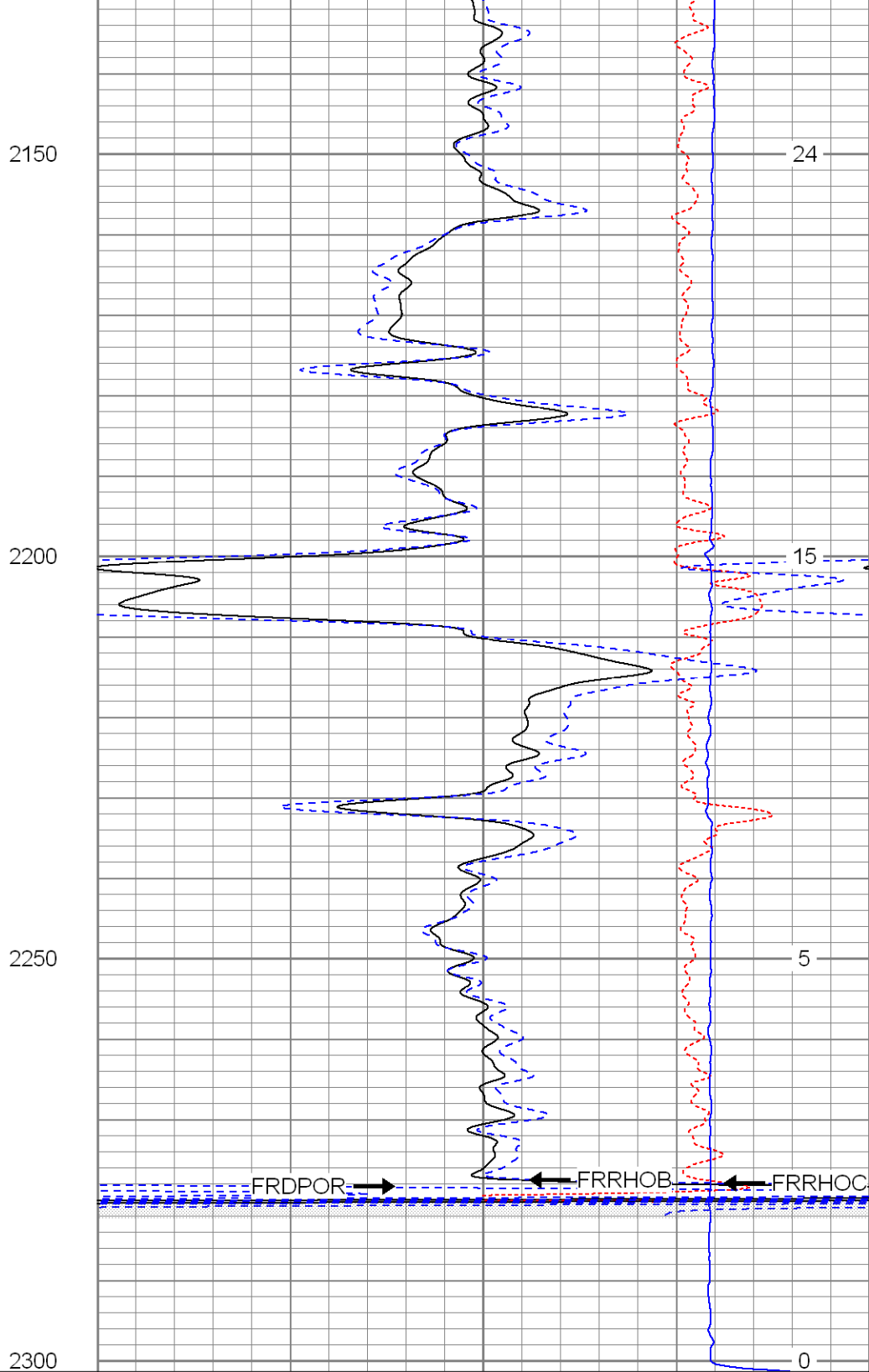








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
ABHV (ft3)		



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Main Pass

Database File: xtoge3315.db

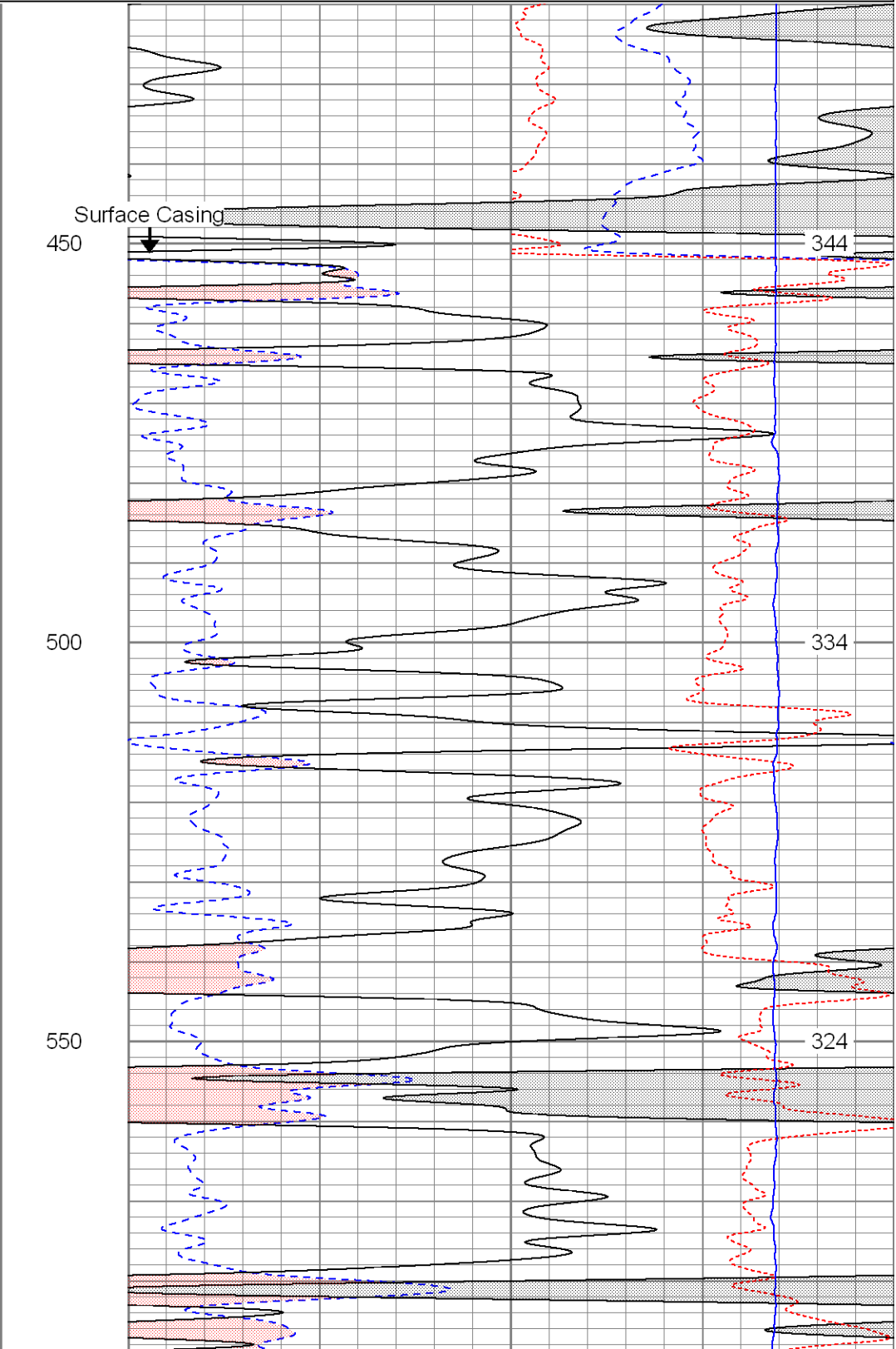
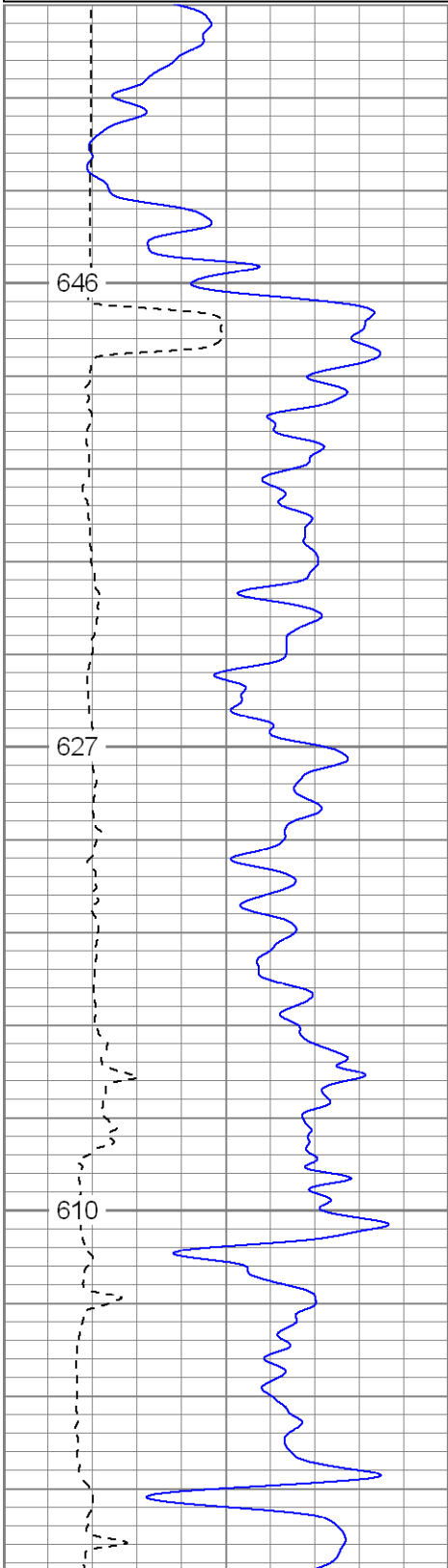
Dataset Pathname: pass3.1

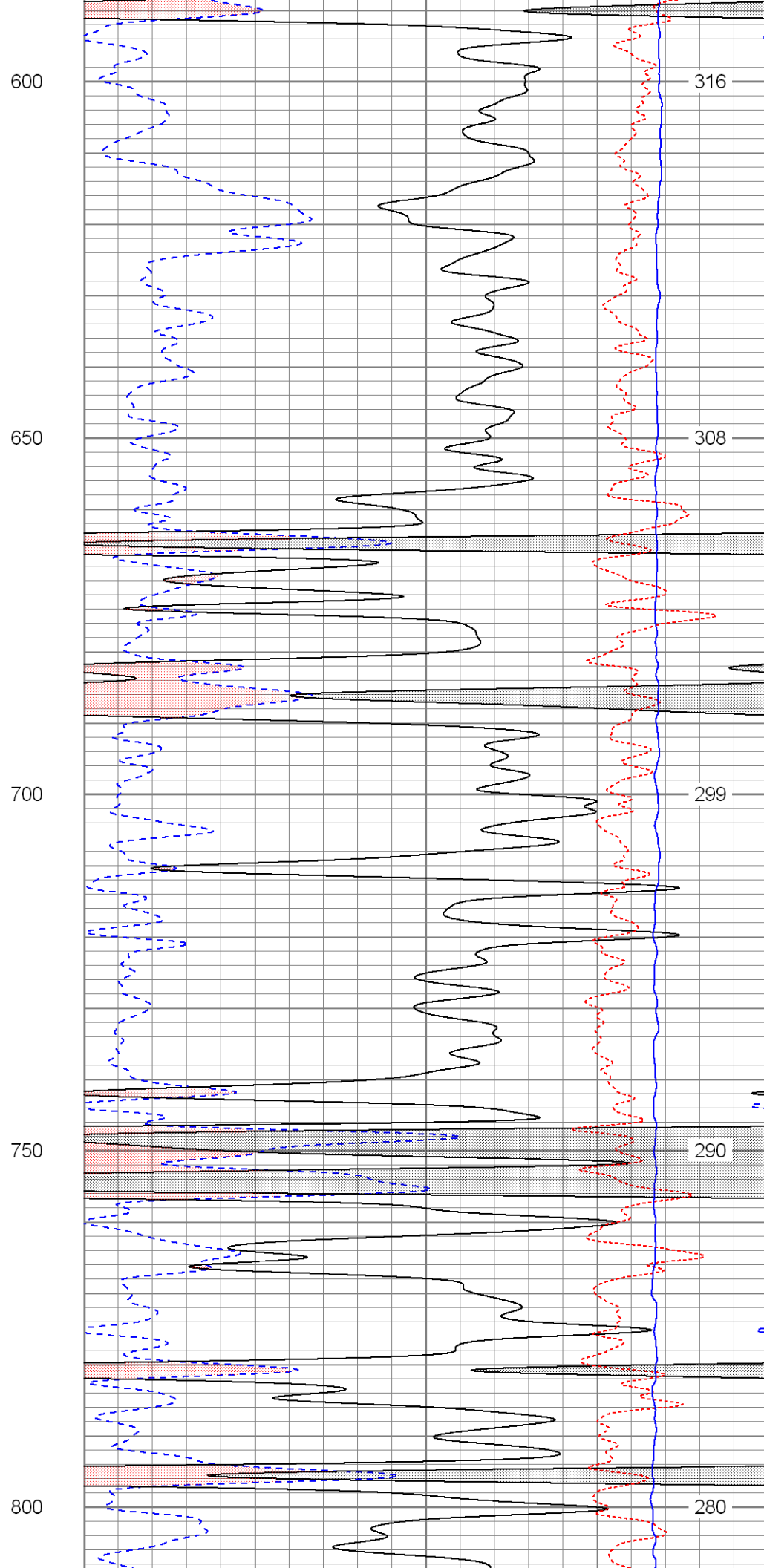
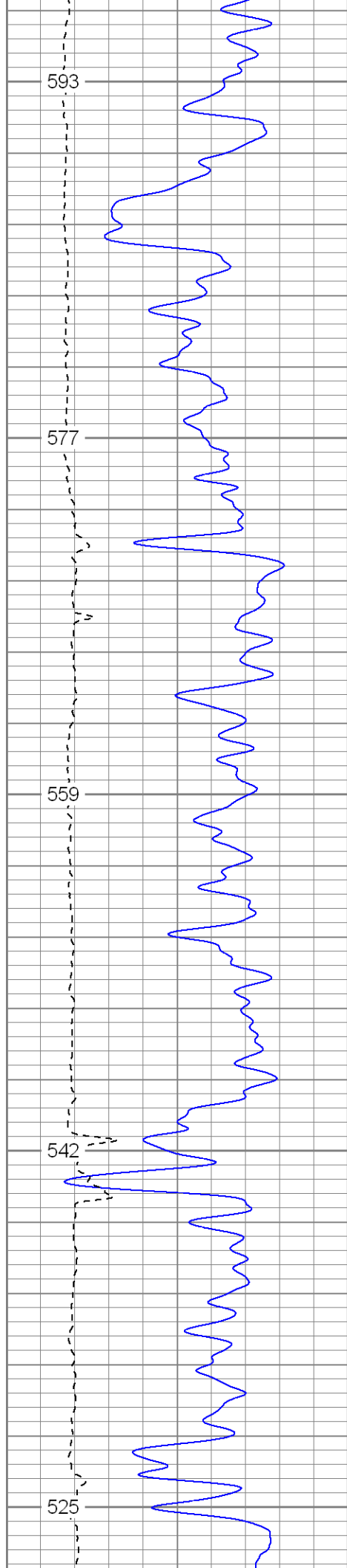
Presentation Format: cdnl

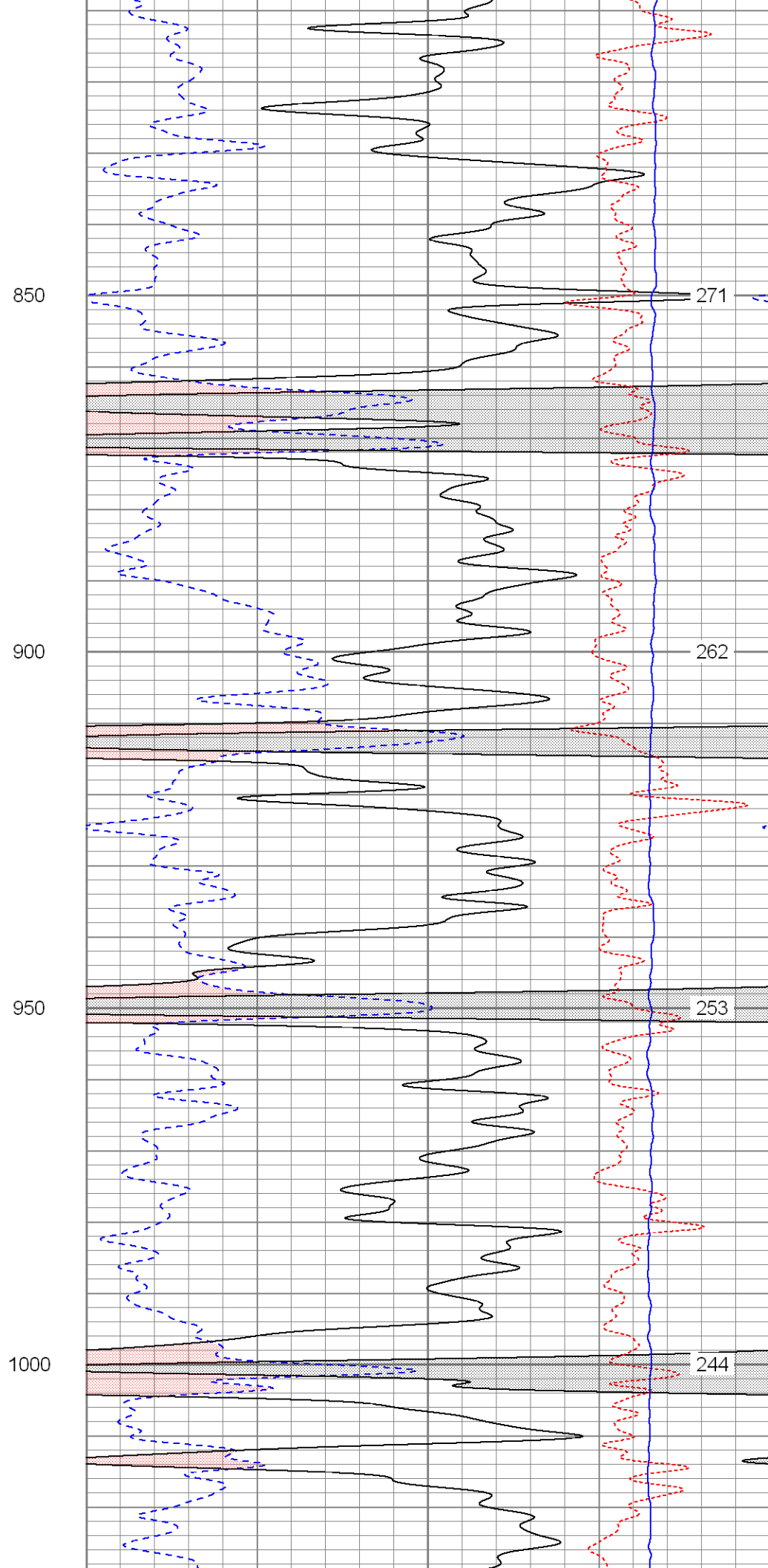
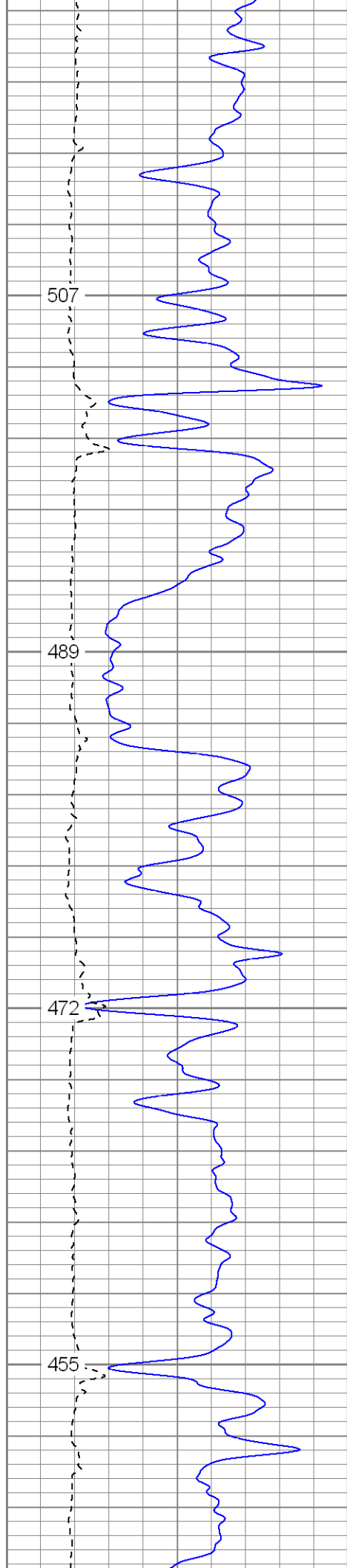
Dataset Creation: Wed Feb 27 16:45:37 2008 by Calc Open-Cased 070814

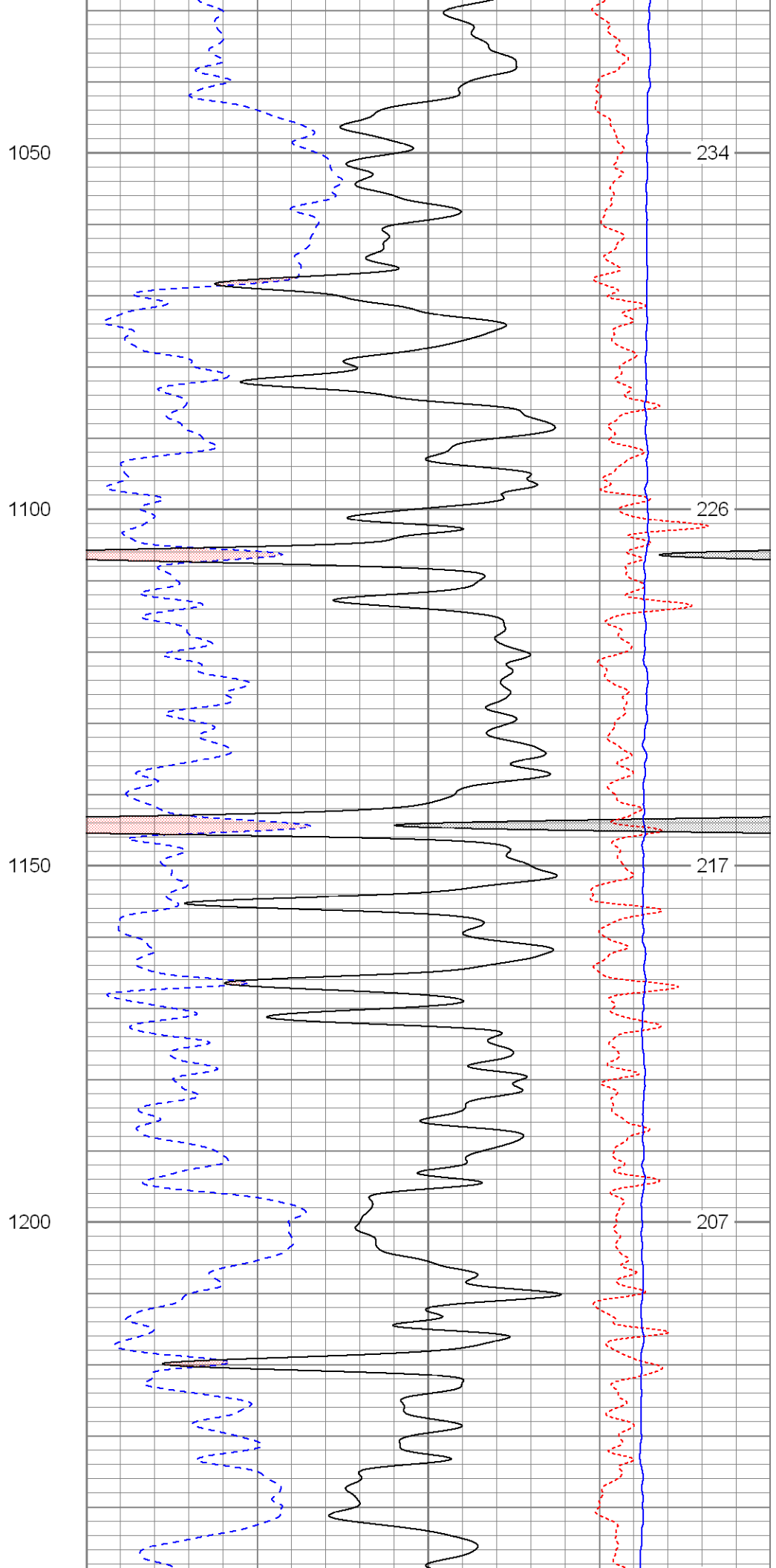
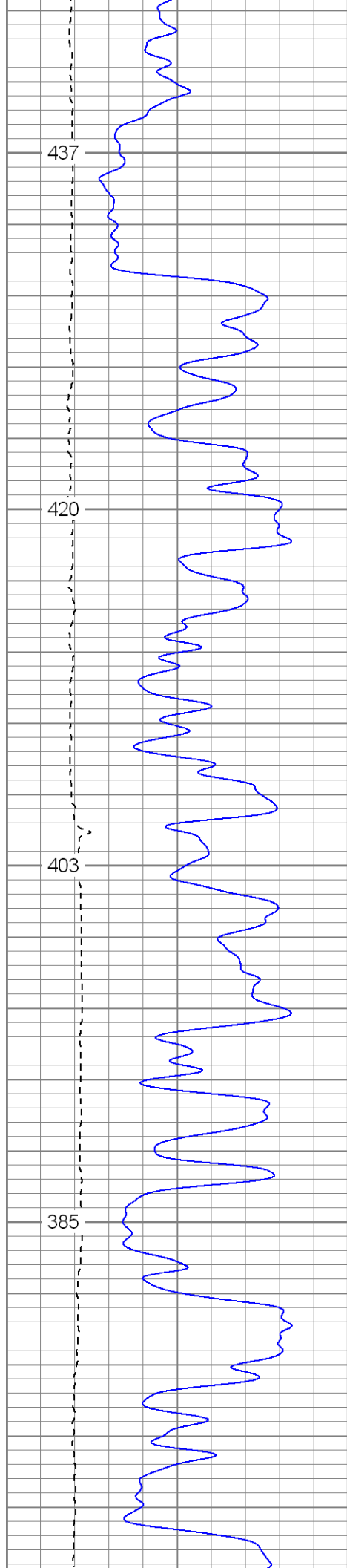
Charted by: Depth in Feet scaled 1:240

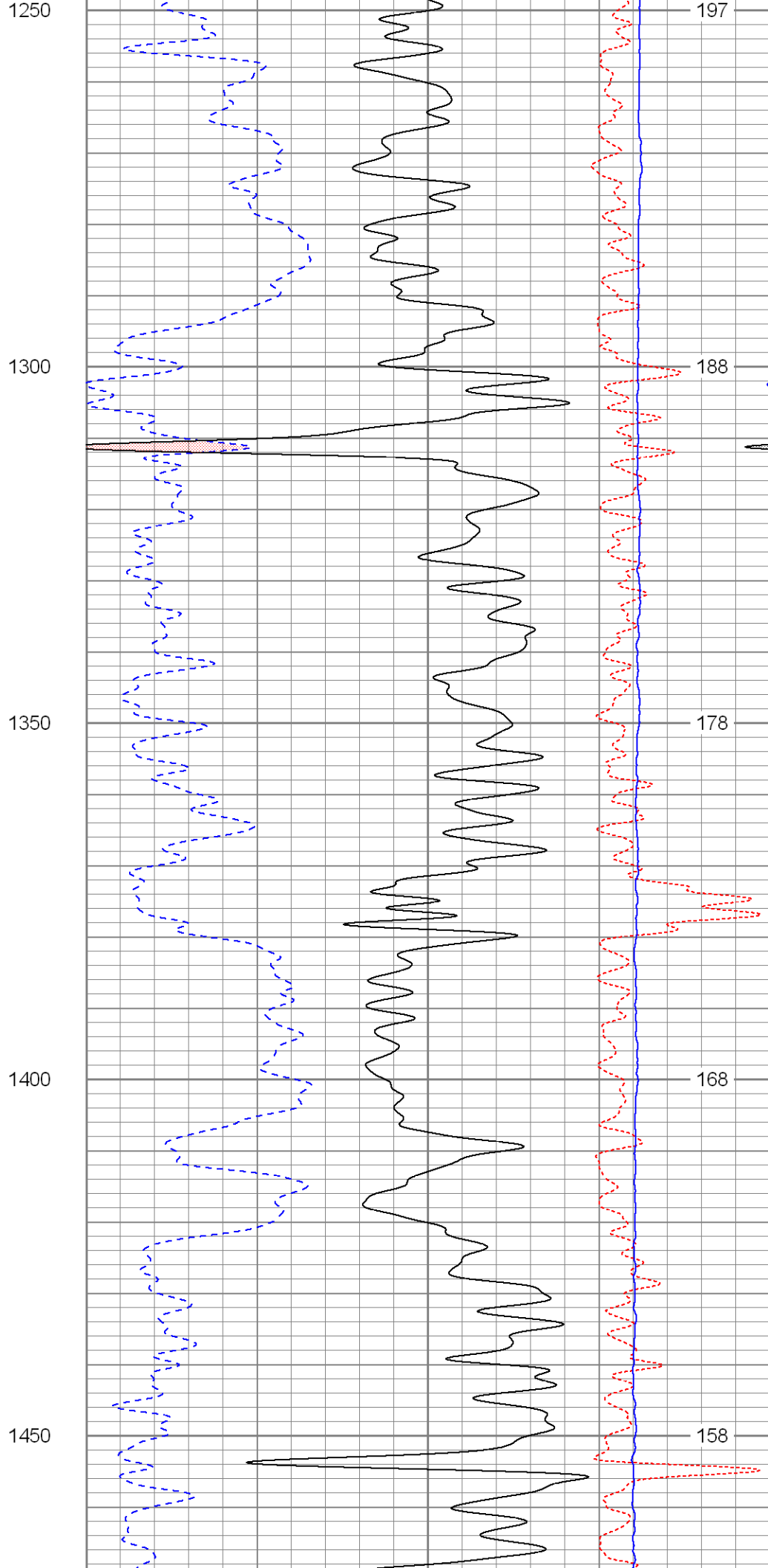
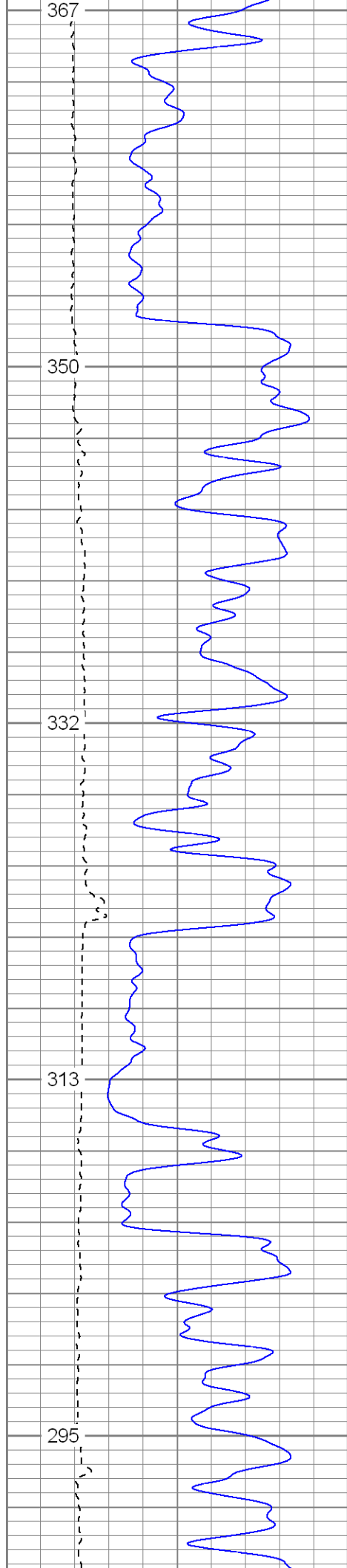
0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5 RHOC (g/cc) 0.5		
			4000 LTEN (lb) 0		
			ABHV (ft3)		

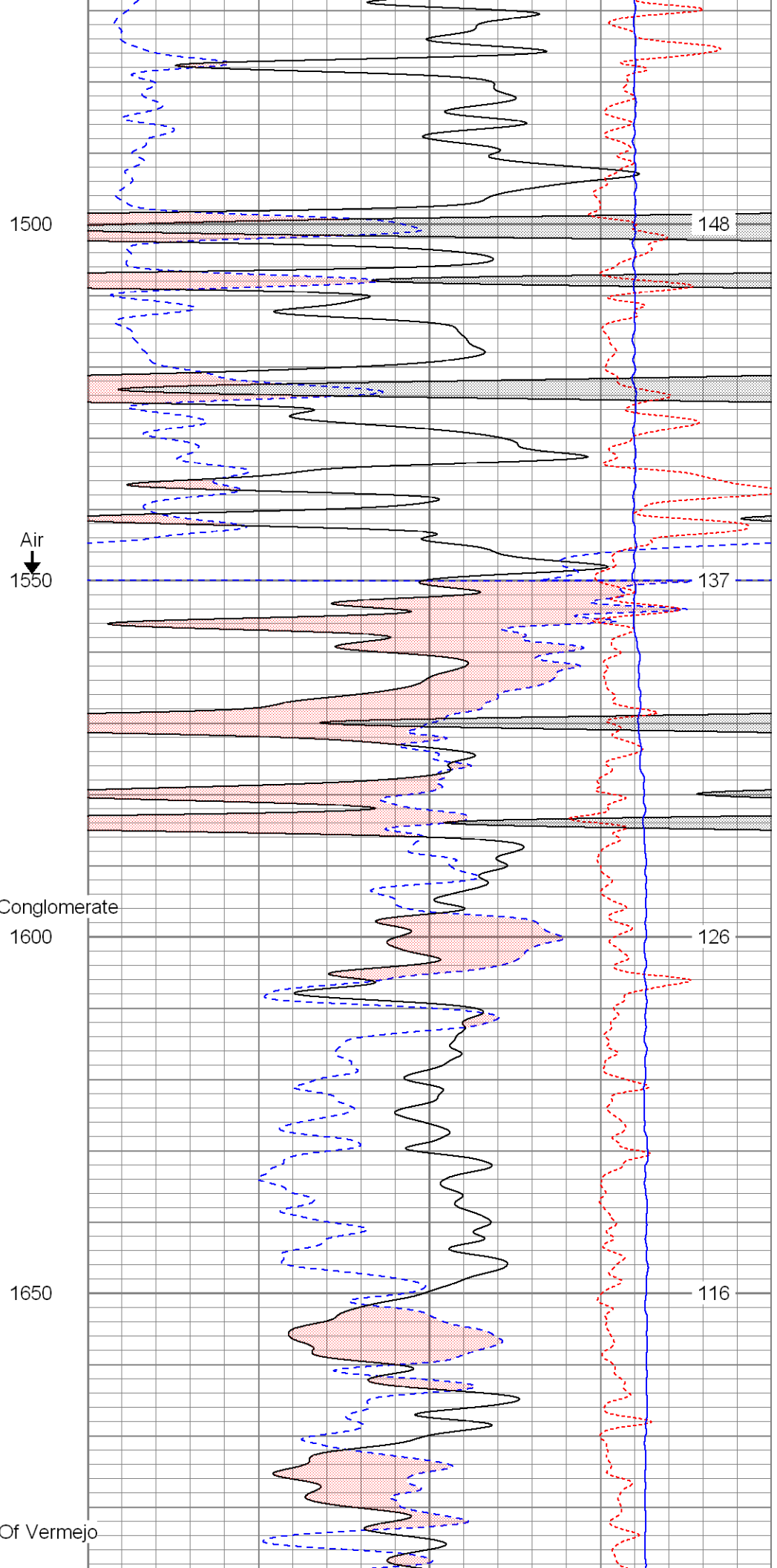
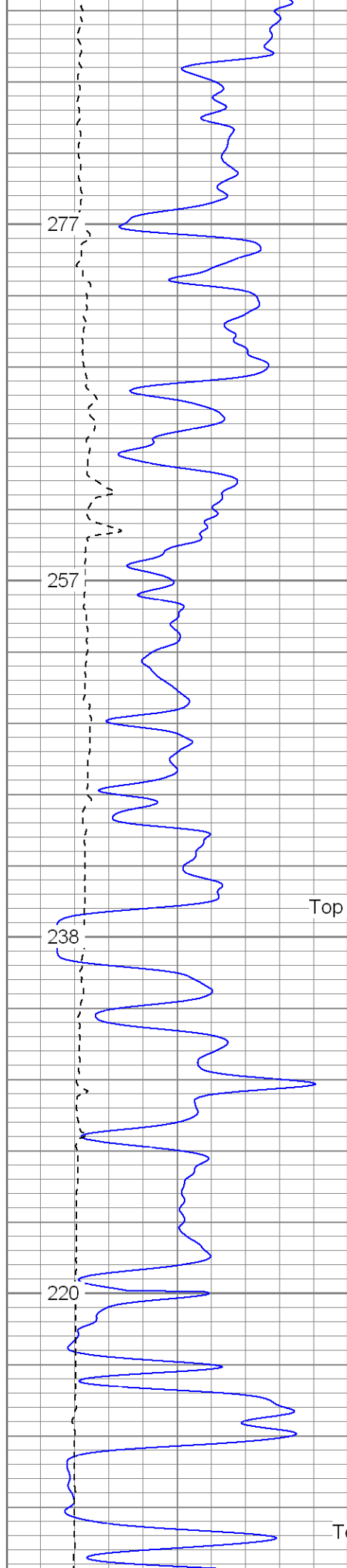


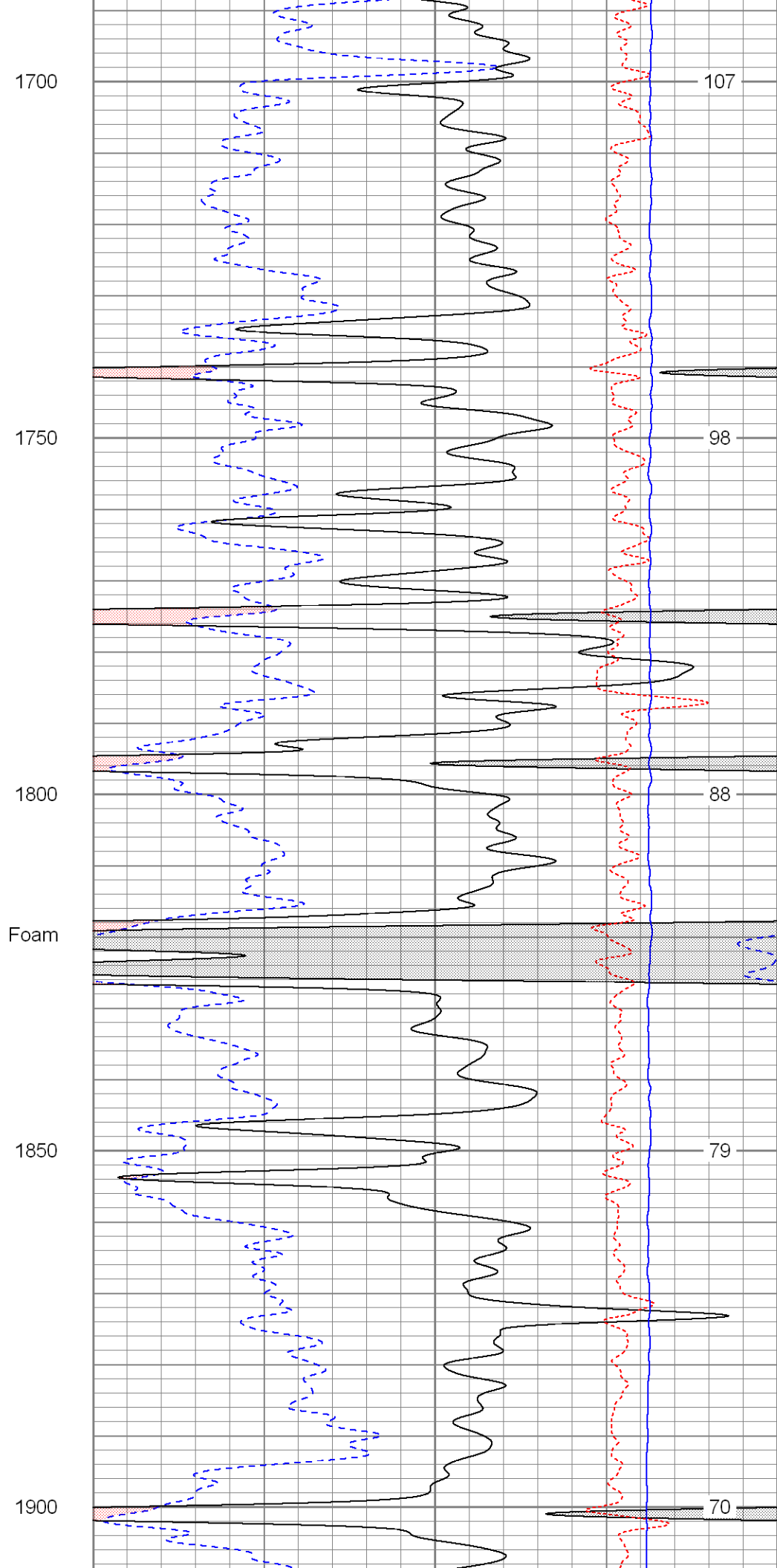
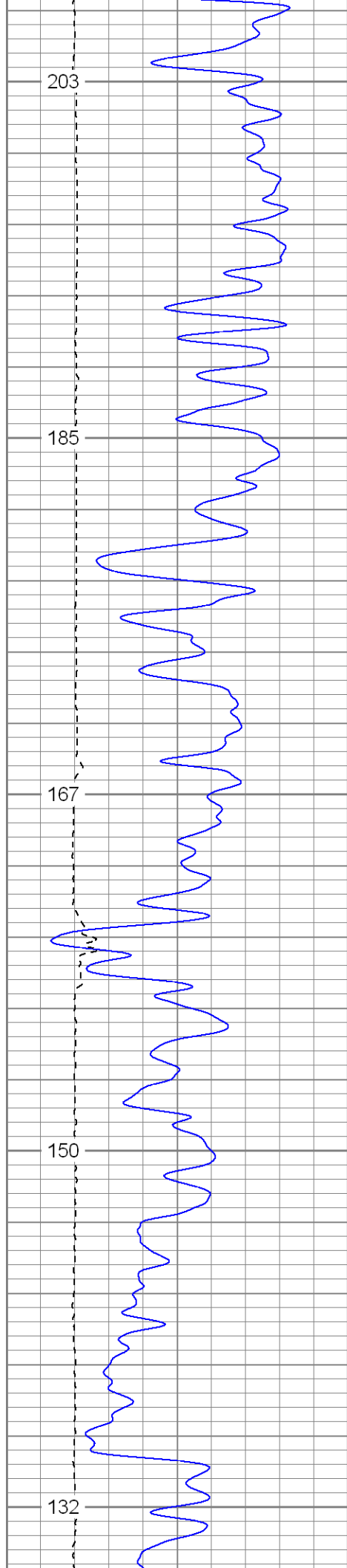


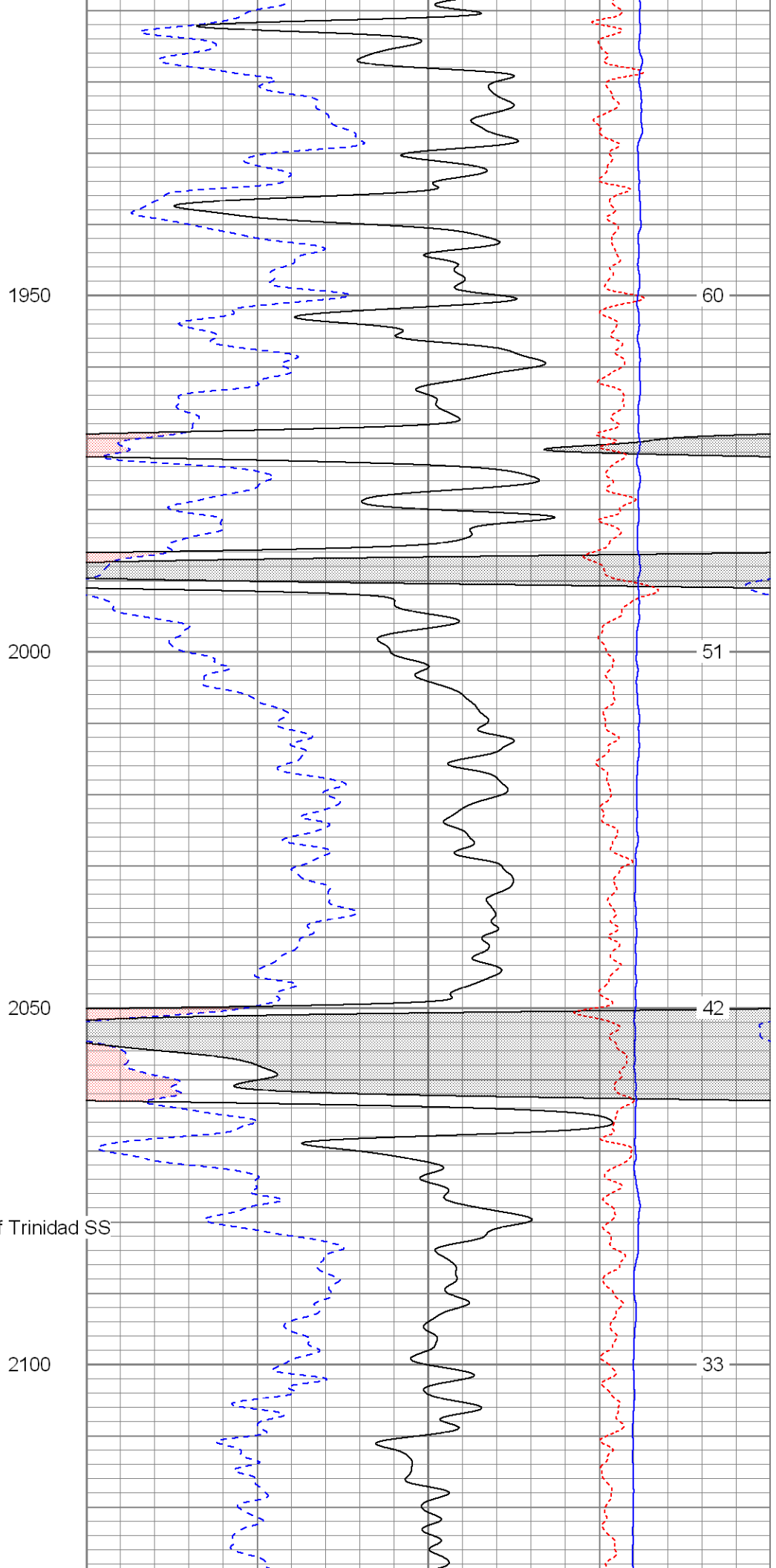
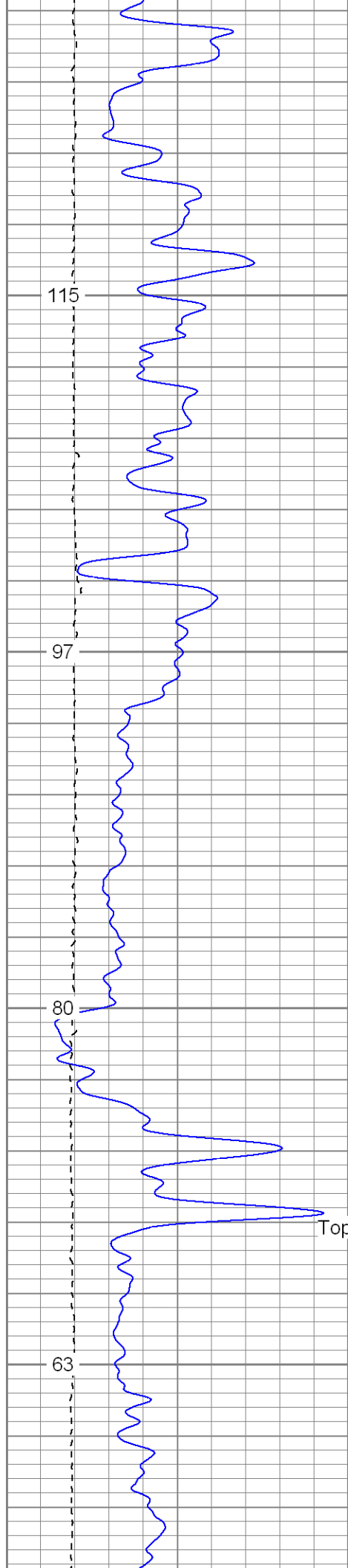


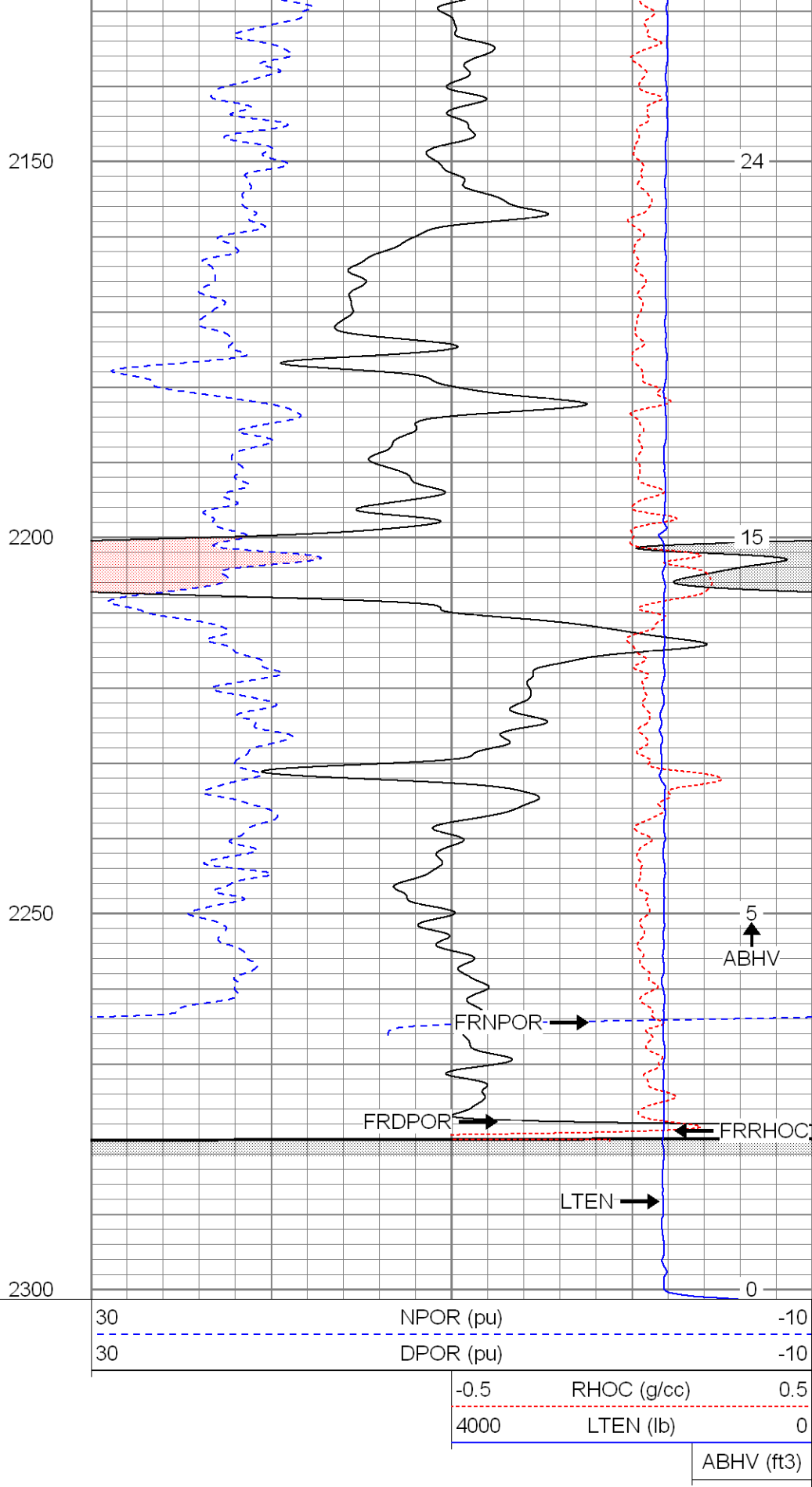
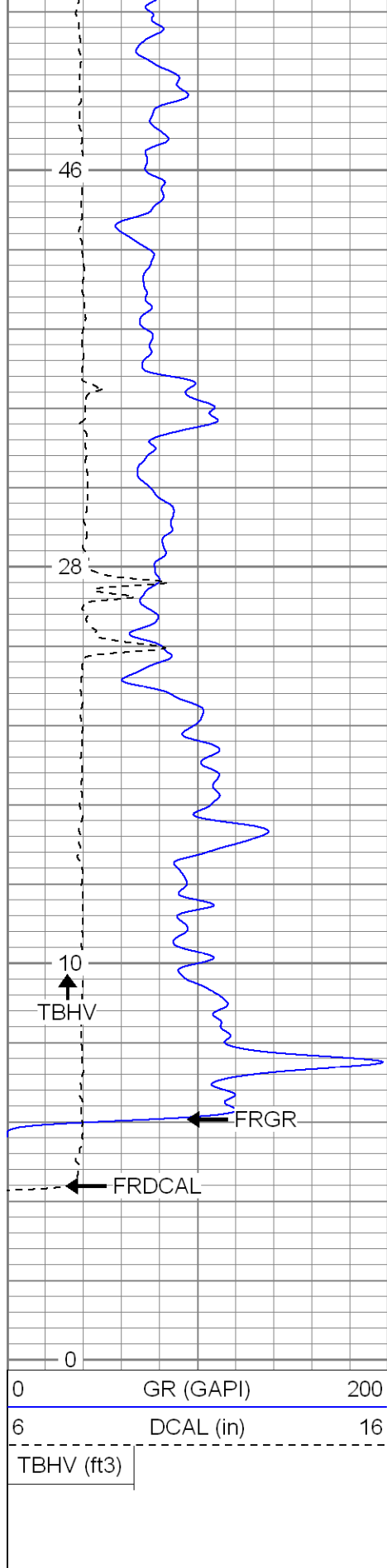












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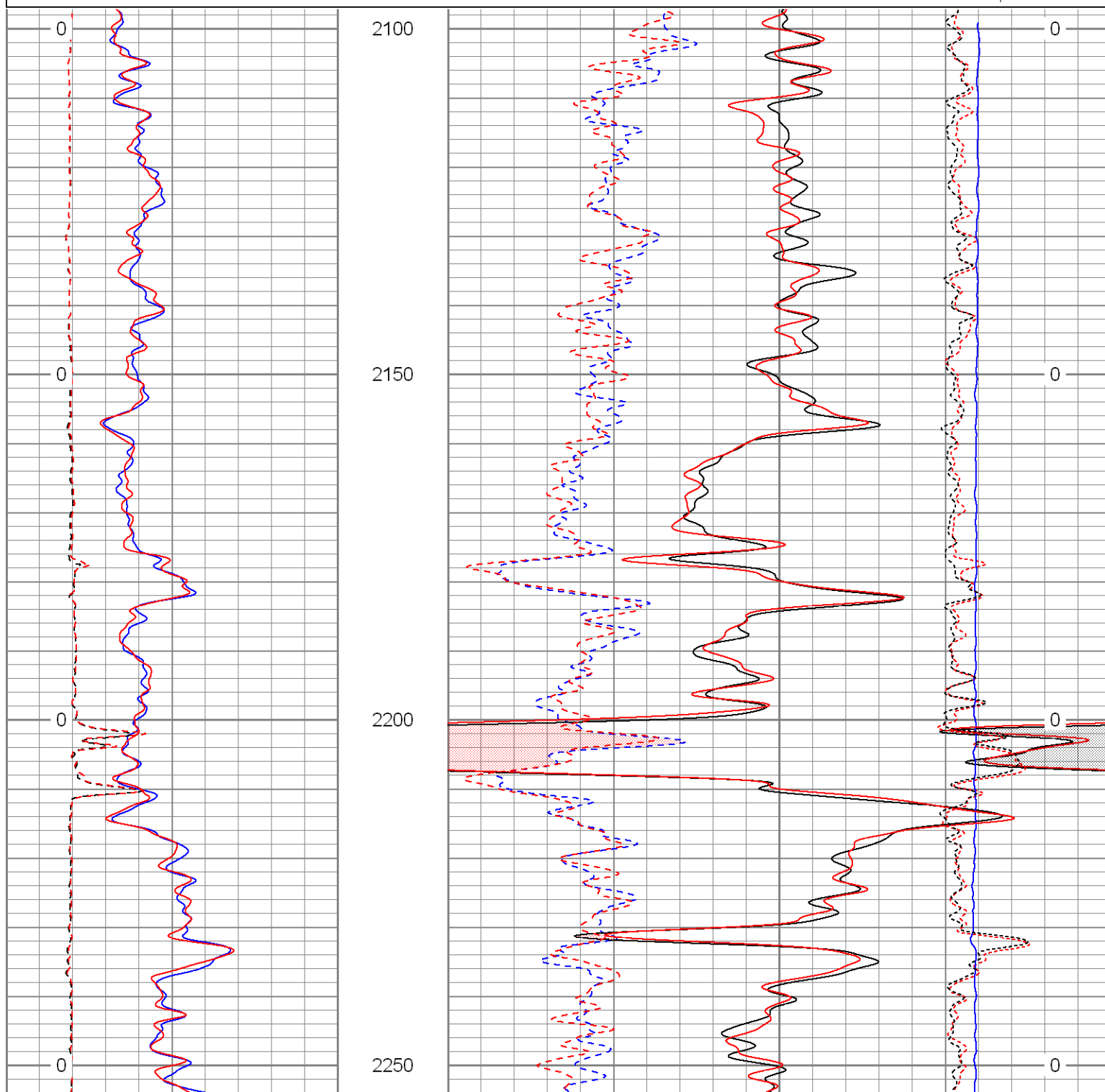
Black Lick, Pa.
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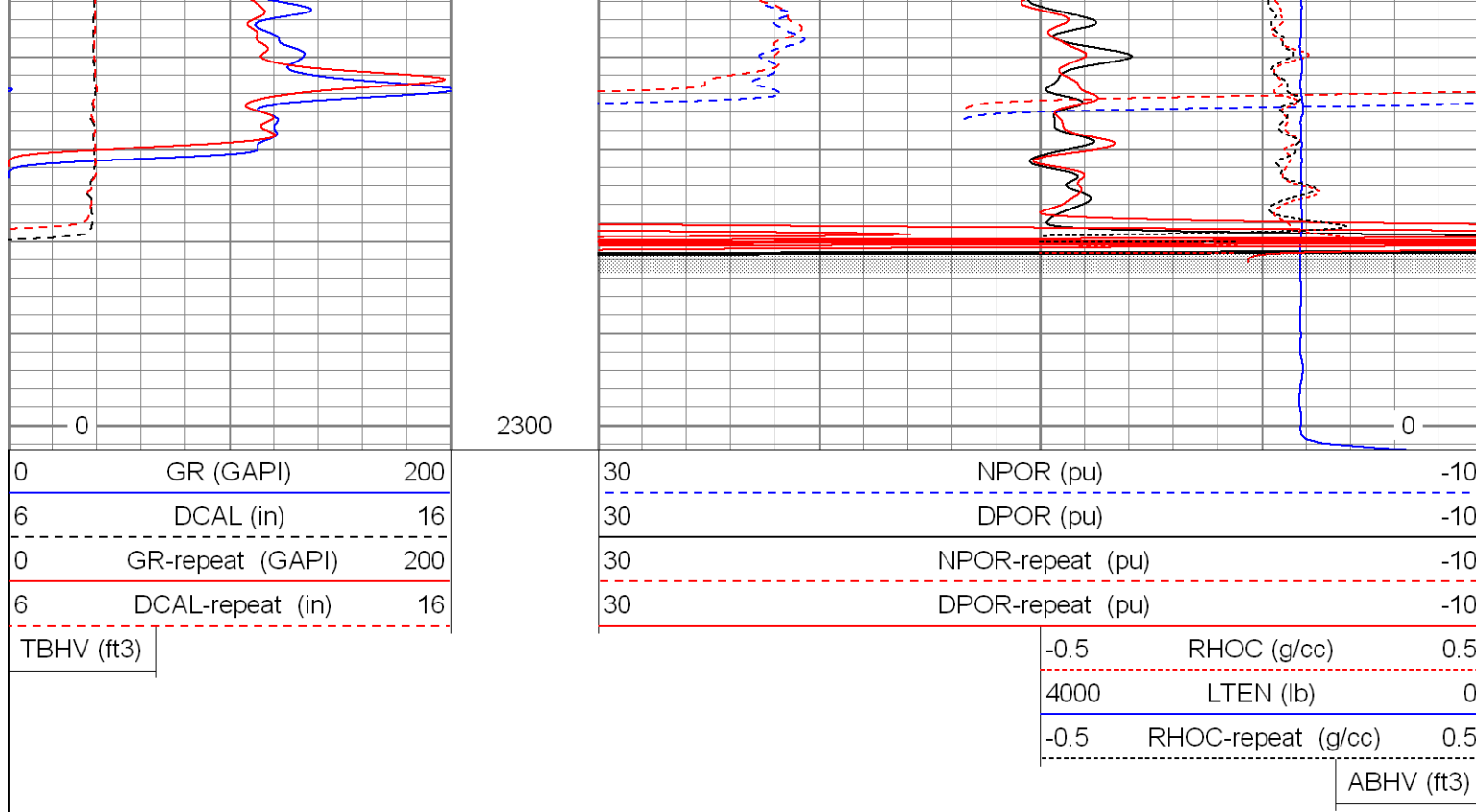
Repeat Pass

Database File: xtoge3315.db
 Dataset Pathname: pass1.1
 Presentation Format: cdnl
 Dataset Creation: Wed Feb 27 15:09:10 2008 by Calc Open-Cased 070814
 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
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
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5
ABHV (ft3)		





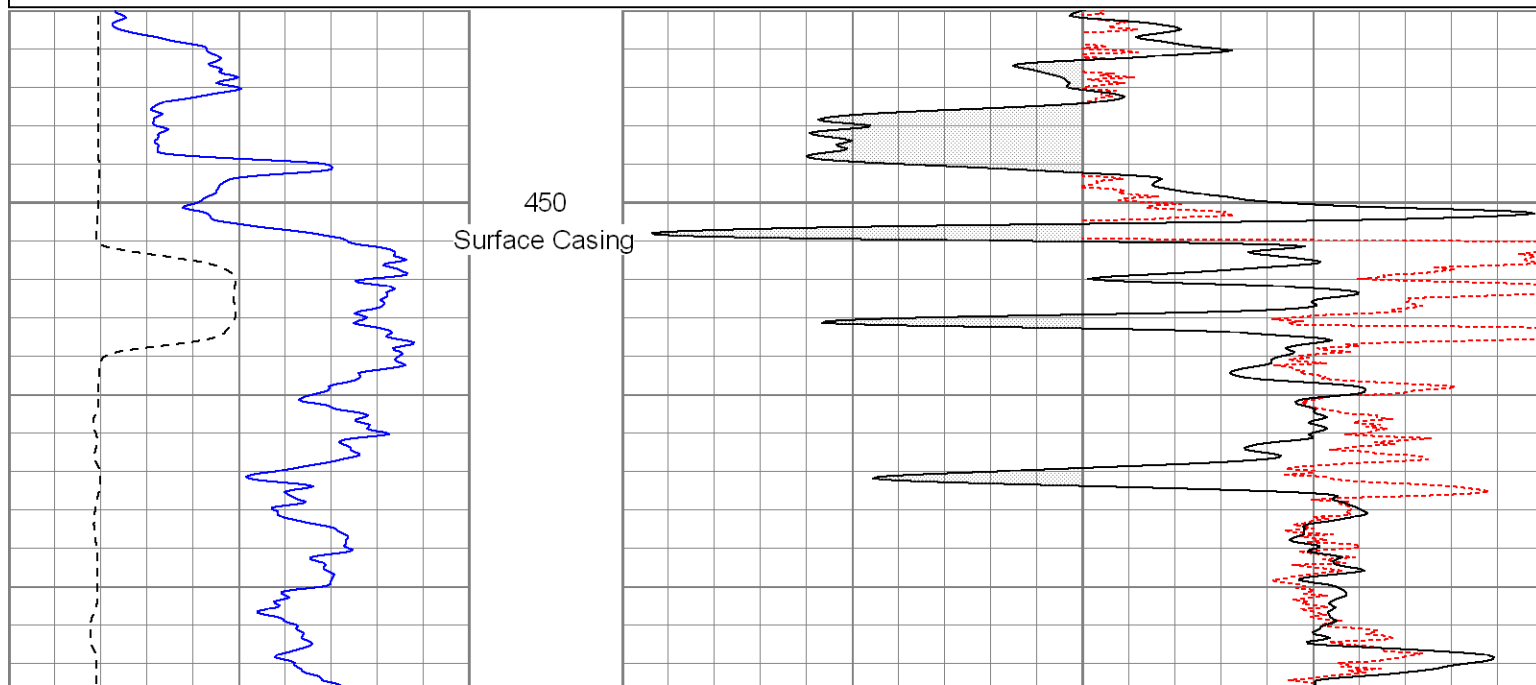
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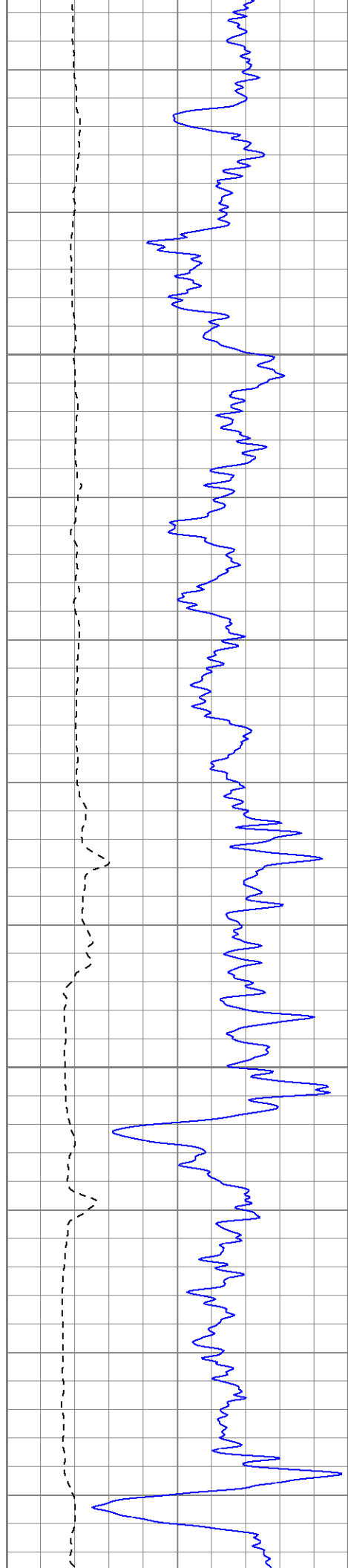
Black Lick, Pa.
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High Resolution Pass

Database File: xtoge3315.db
Dataset Pathname: pass3.2
Presentation Format: cdlhr
Dataset Creation: Thu Feb 28 09:45:01 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

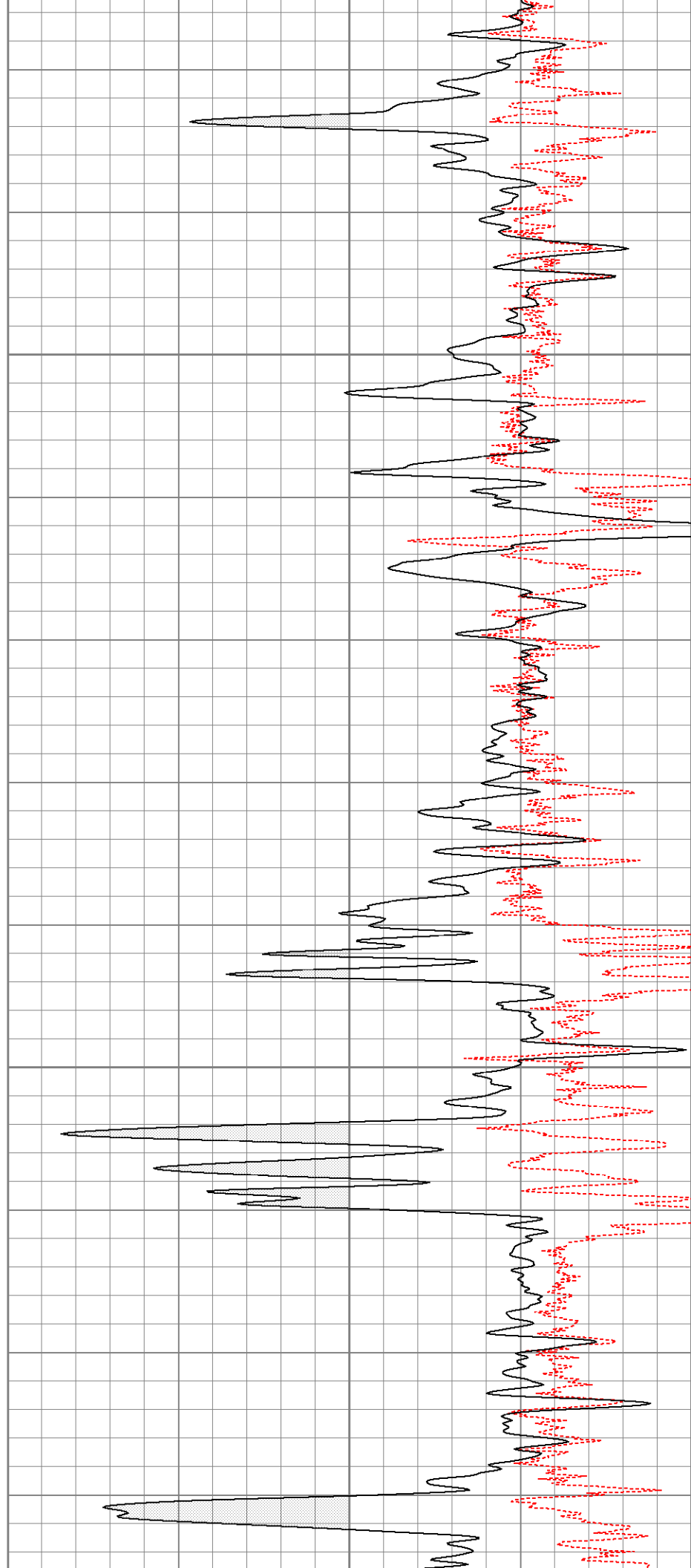
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6	DCAL (in)	16		-0.5	RHOC (g/cc) 0.5

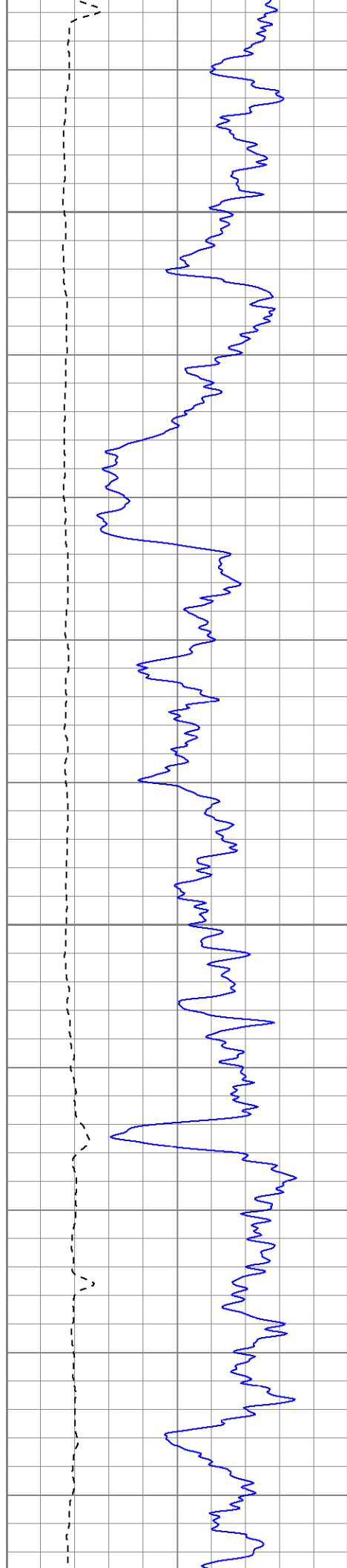




500

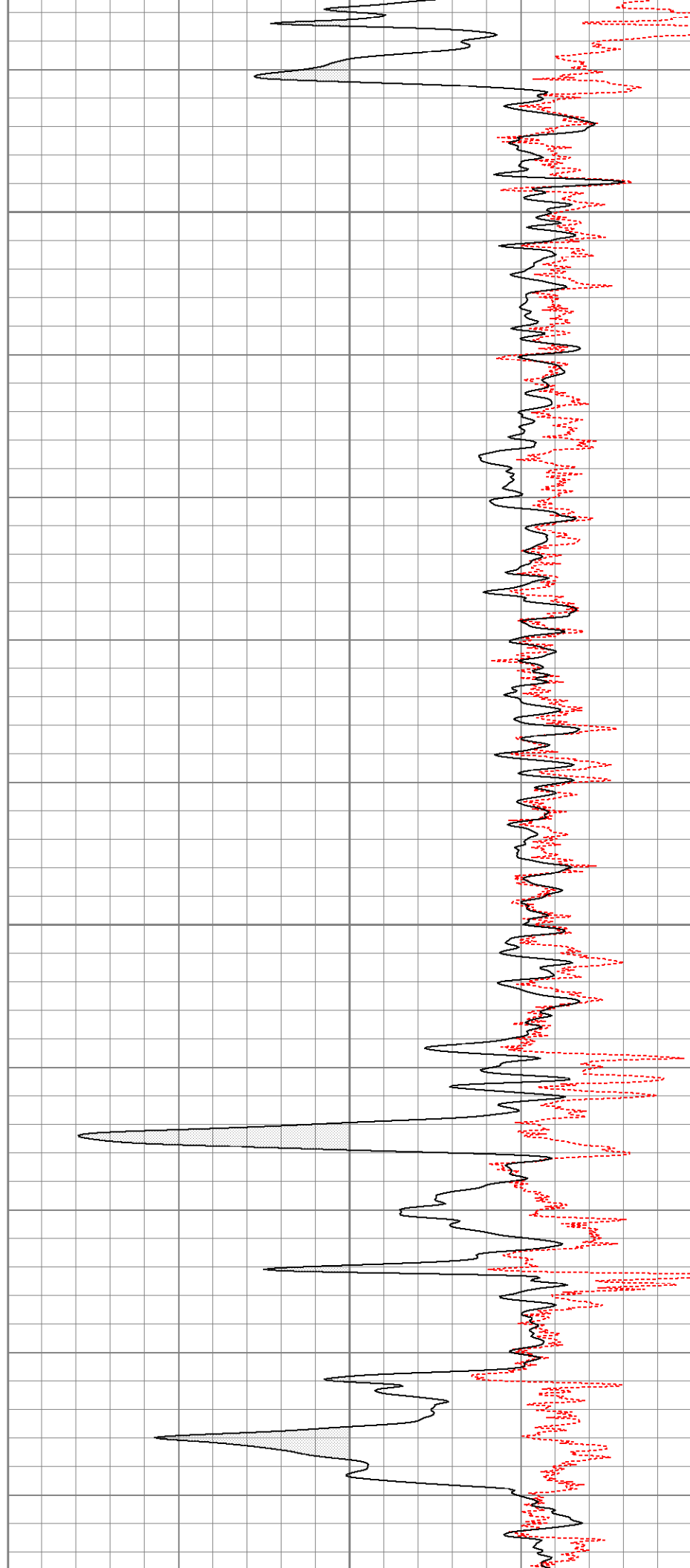
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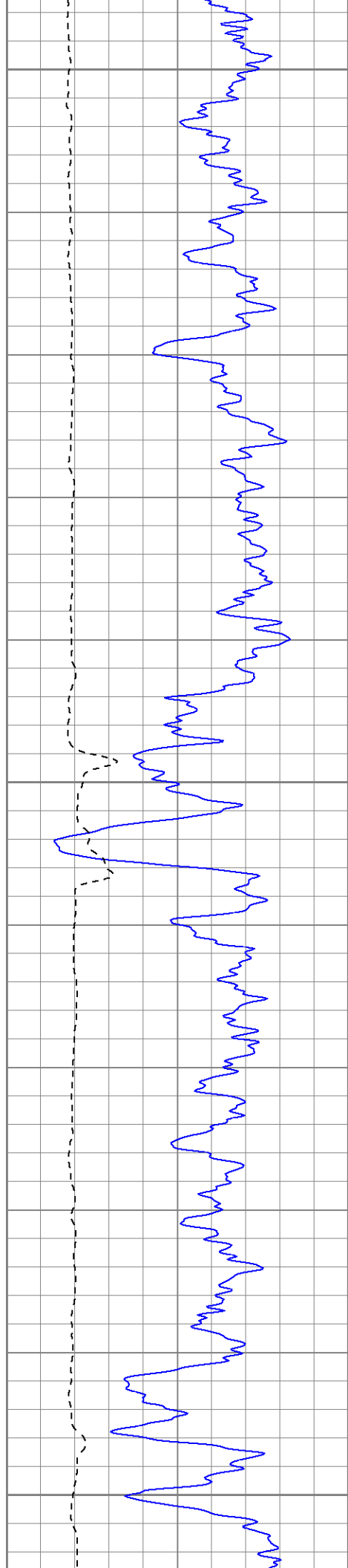




600

650

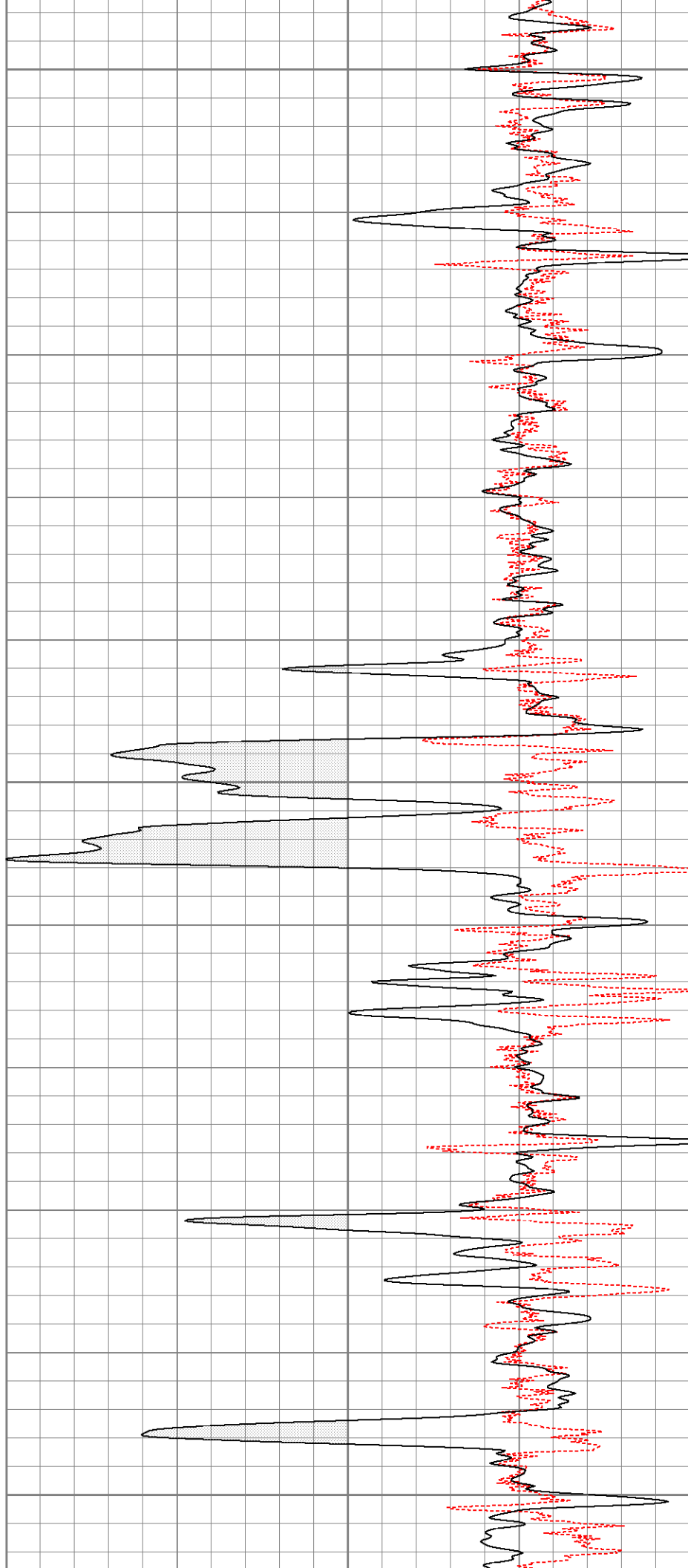


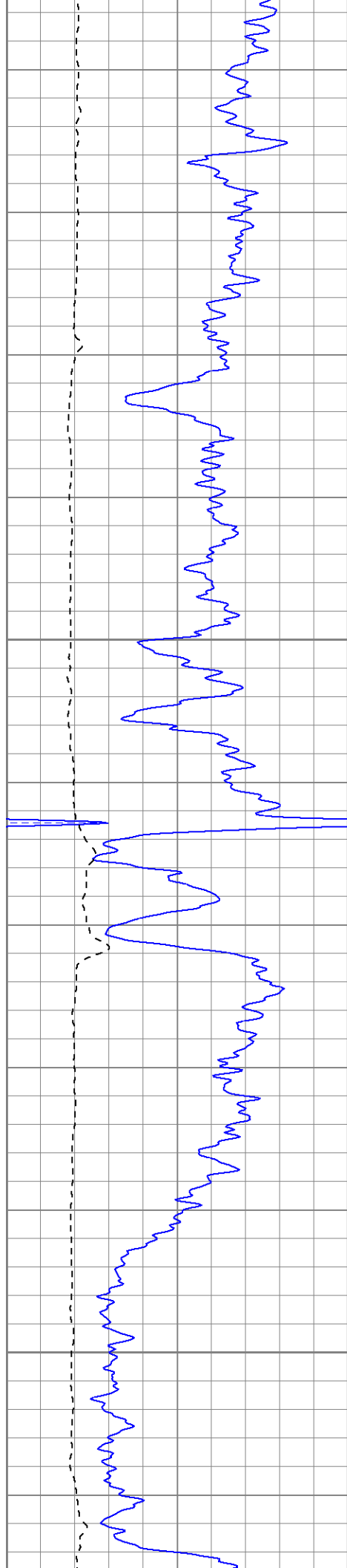


700

750

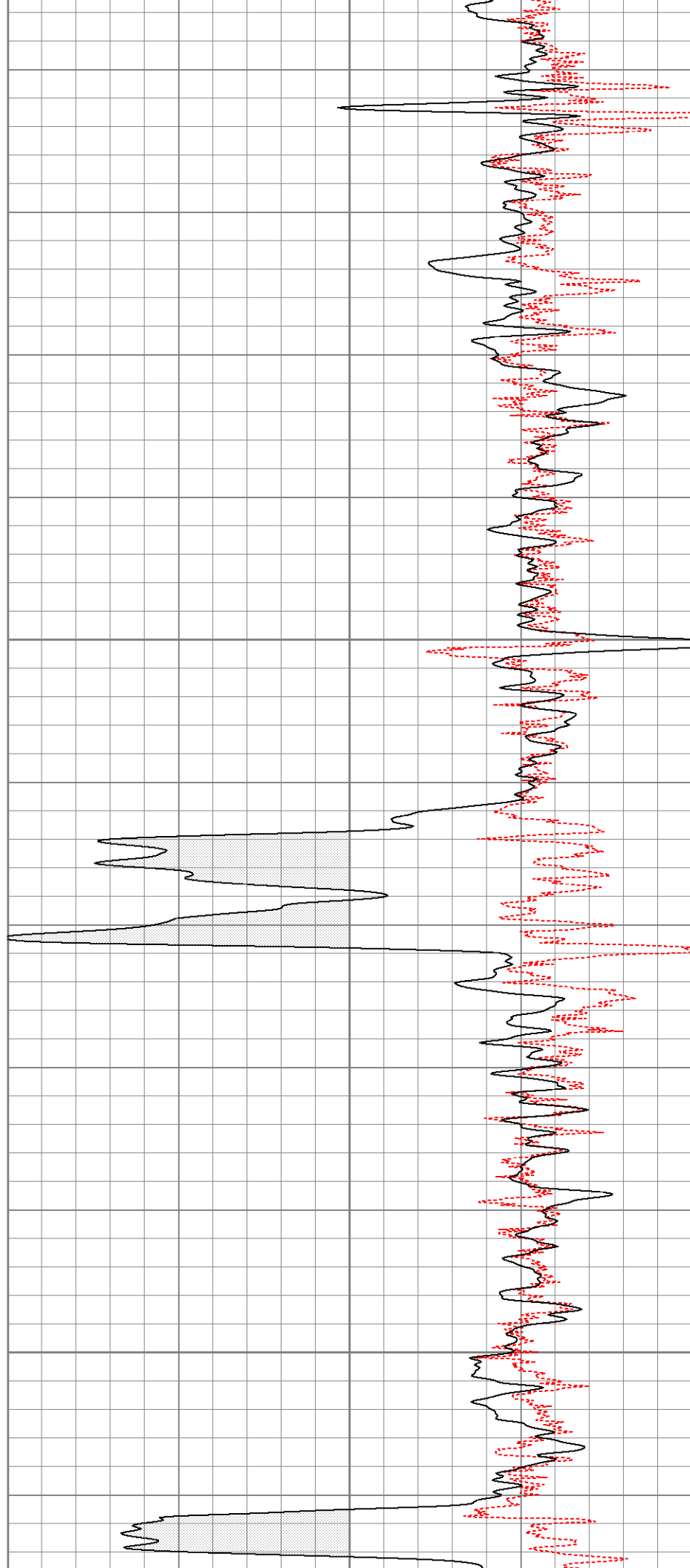
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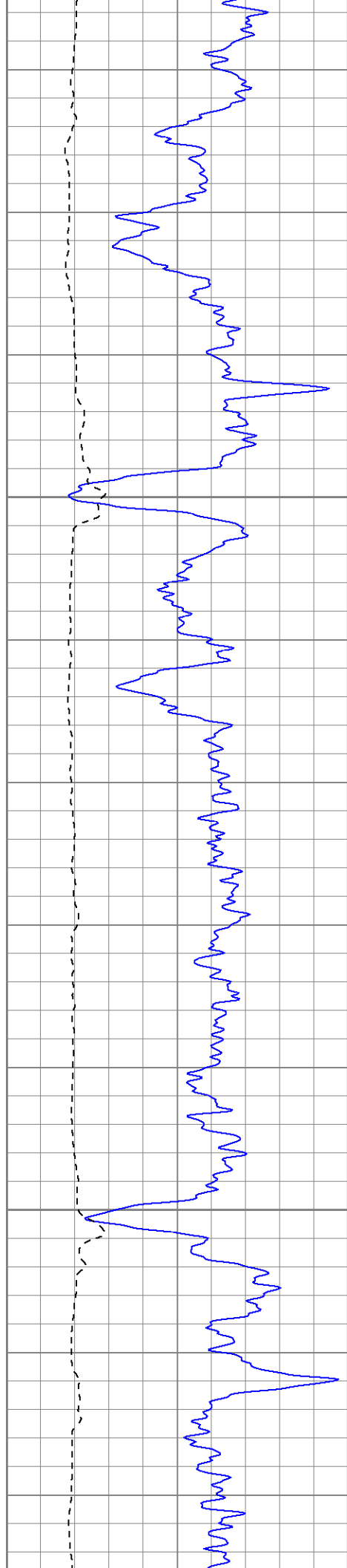




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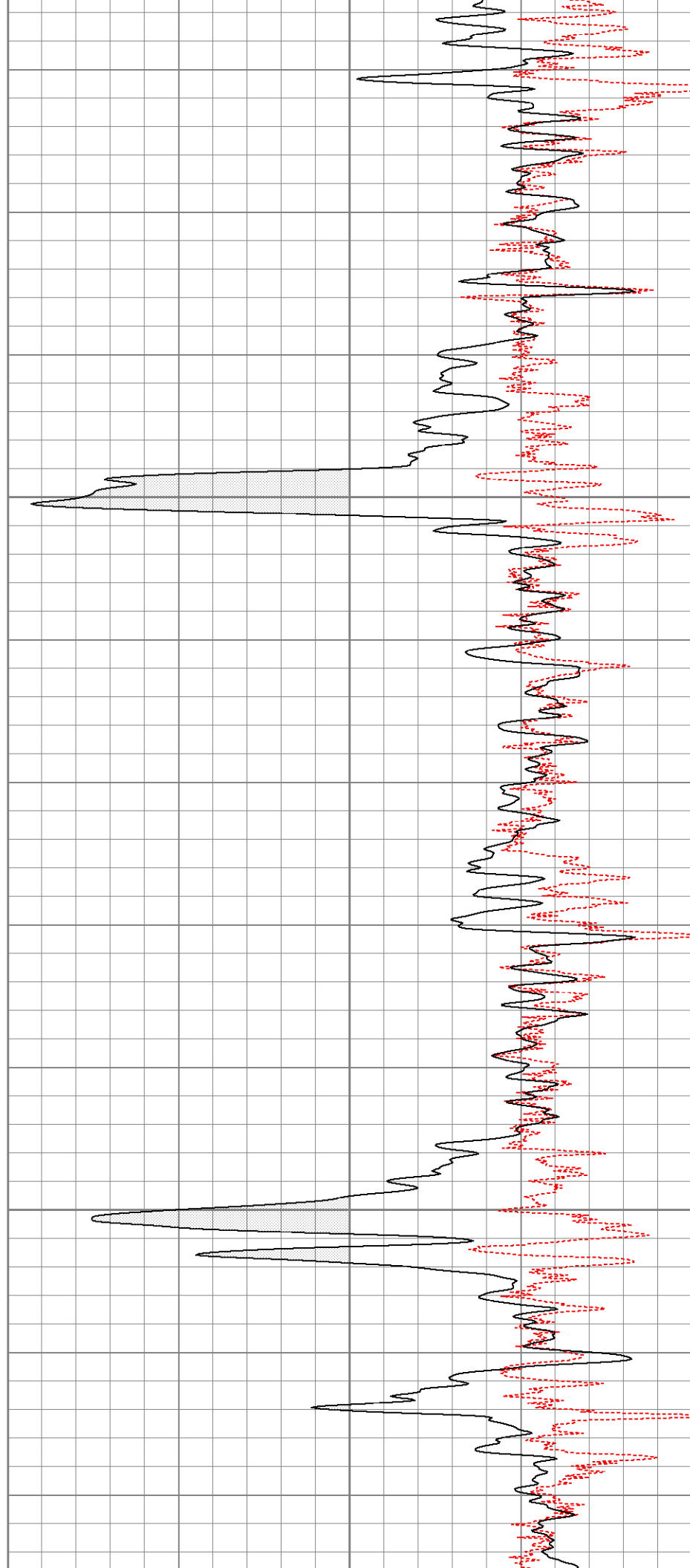
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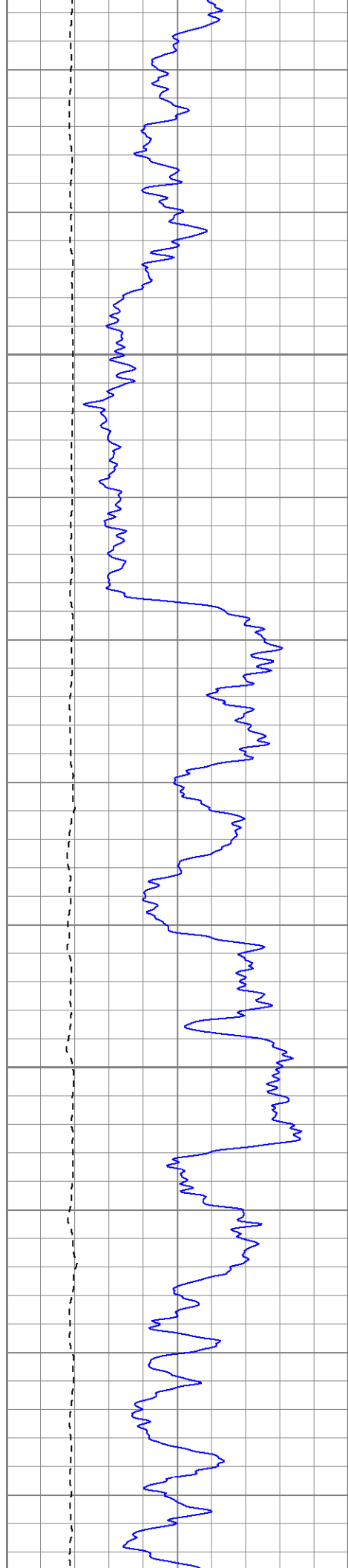




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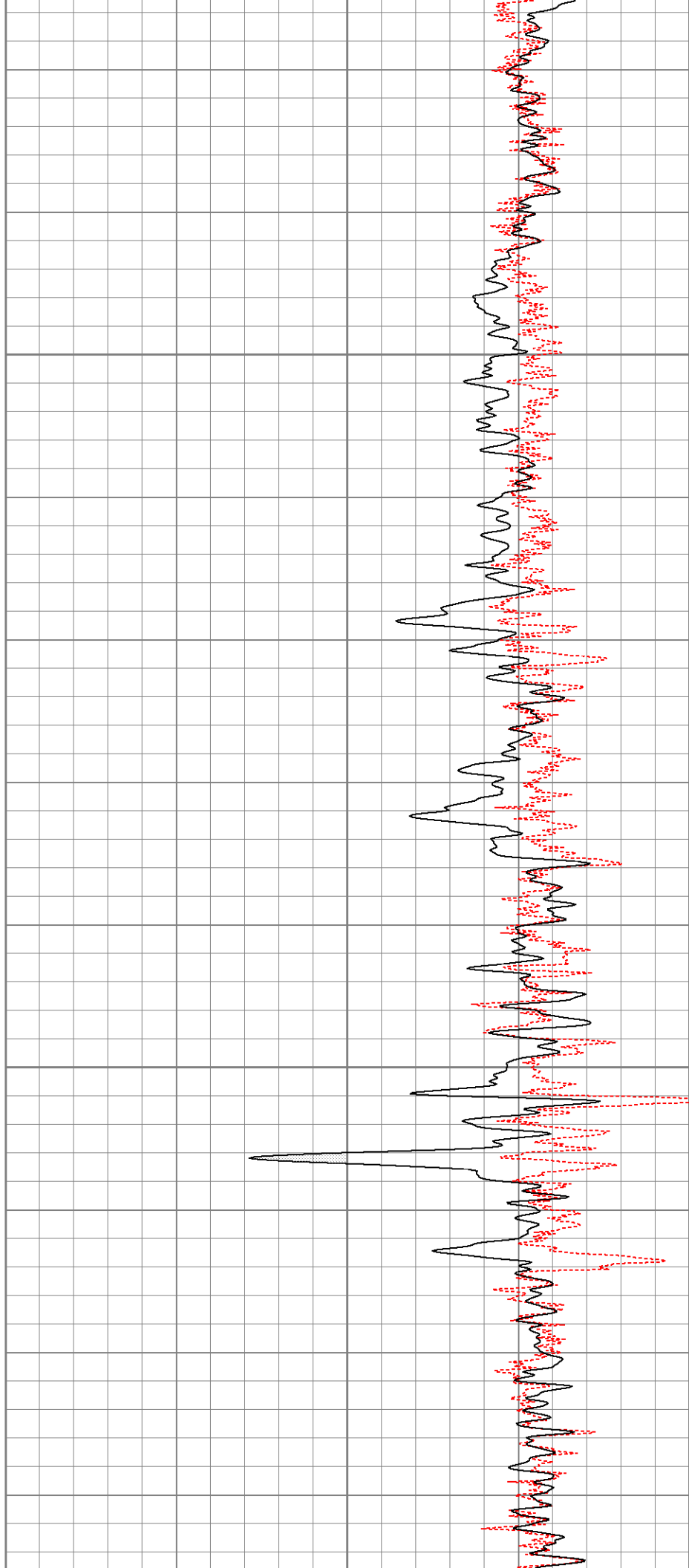
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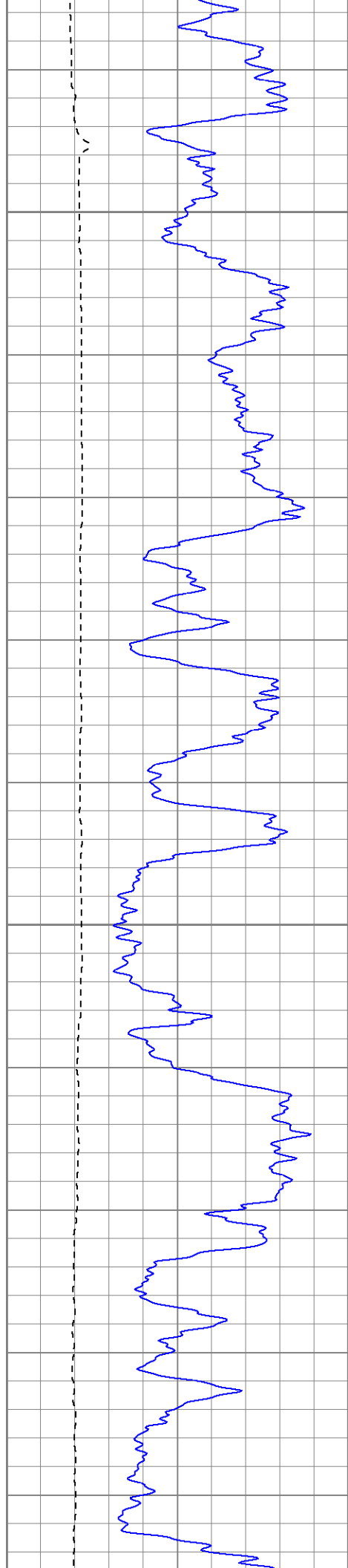




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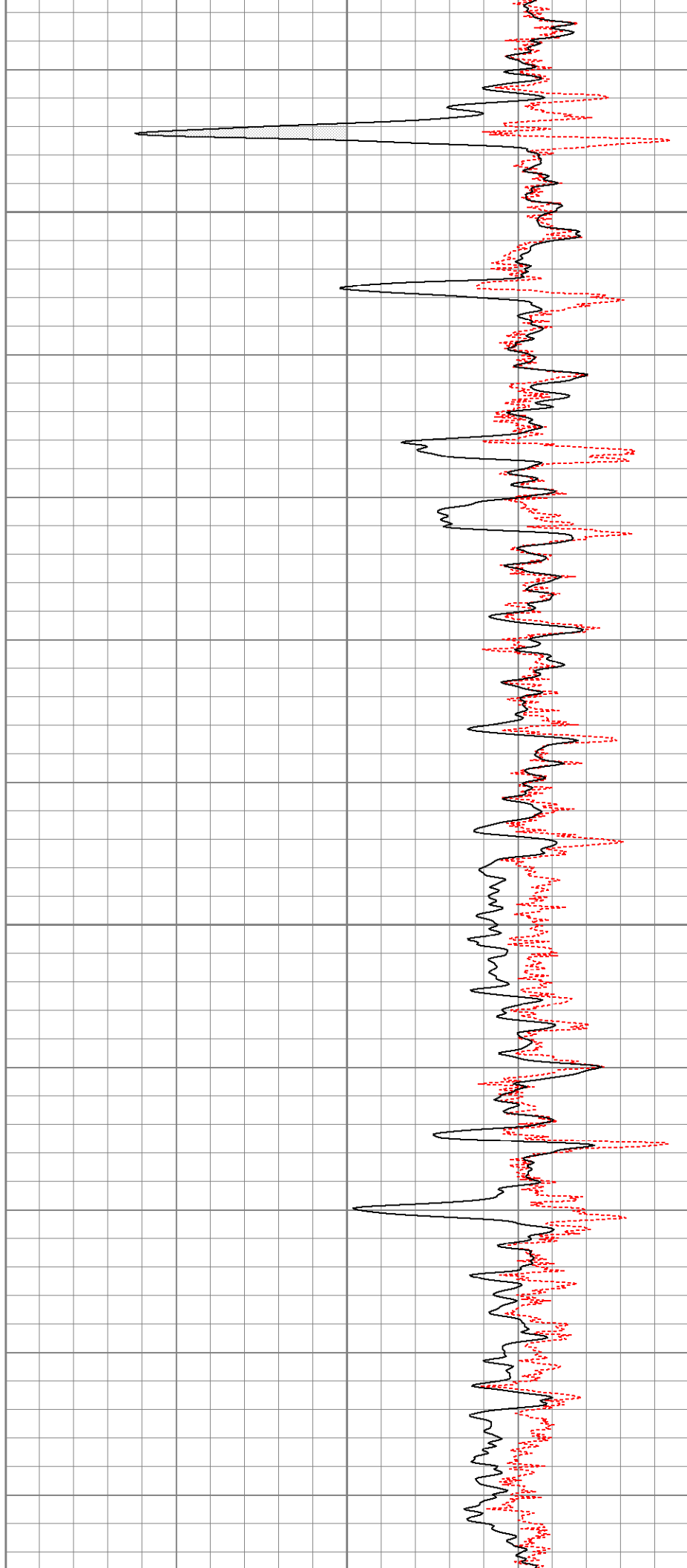
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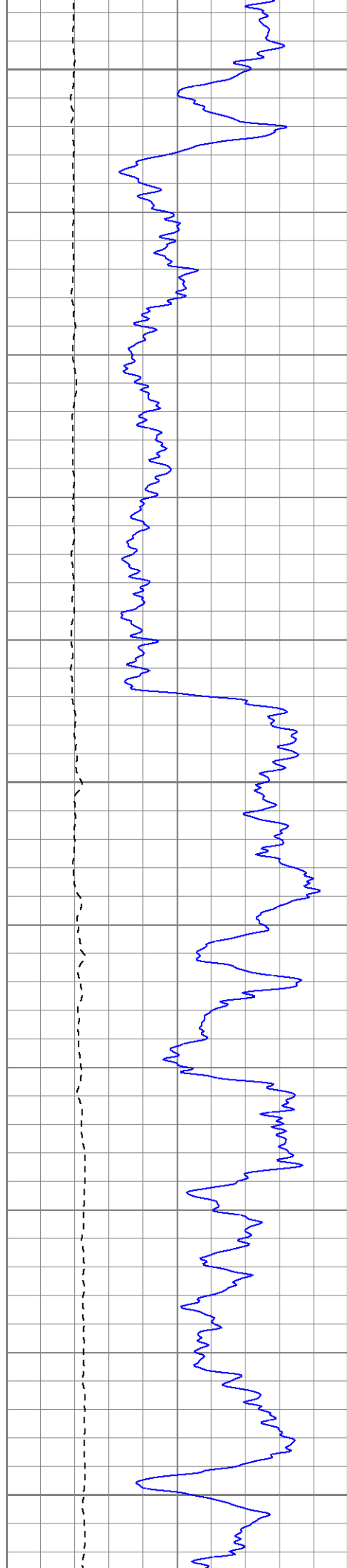




1150

1200

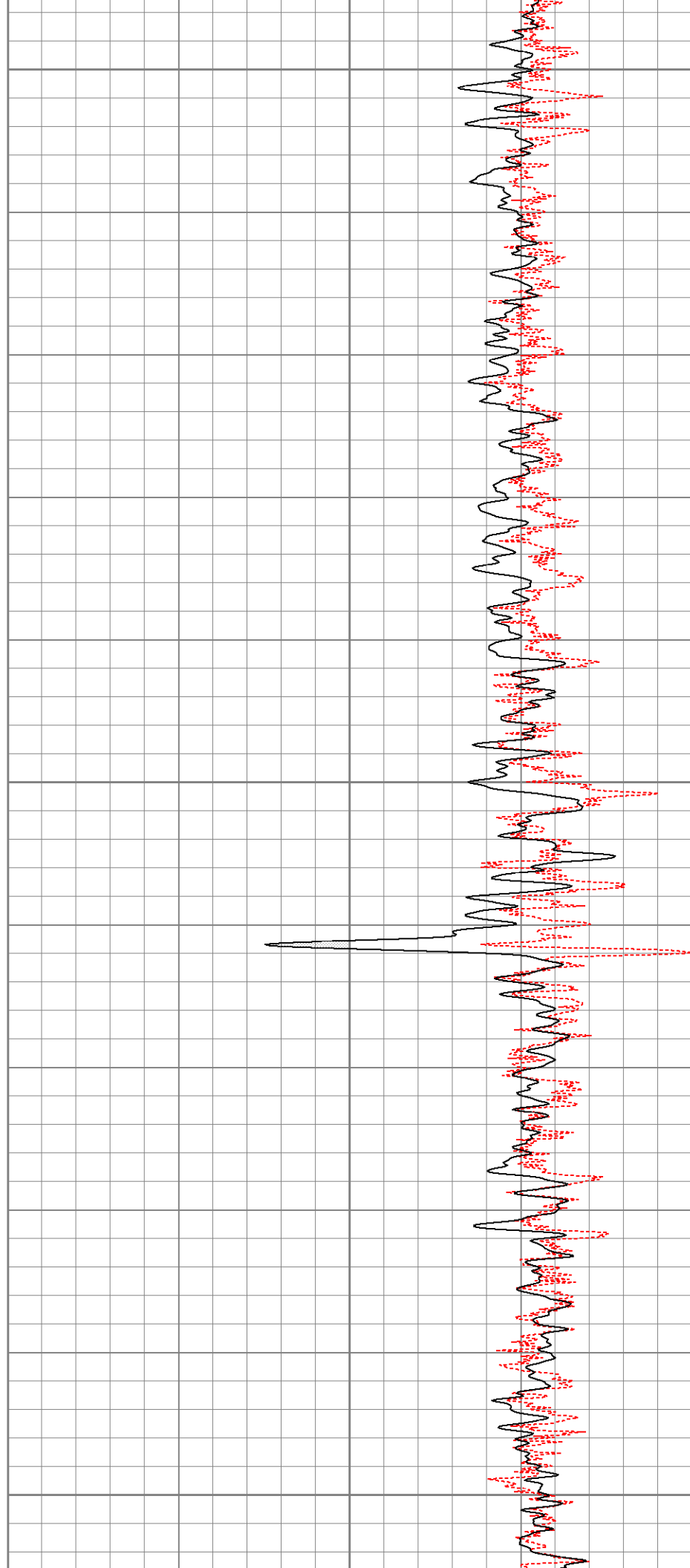


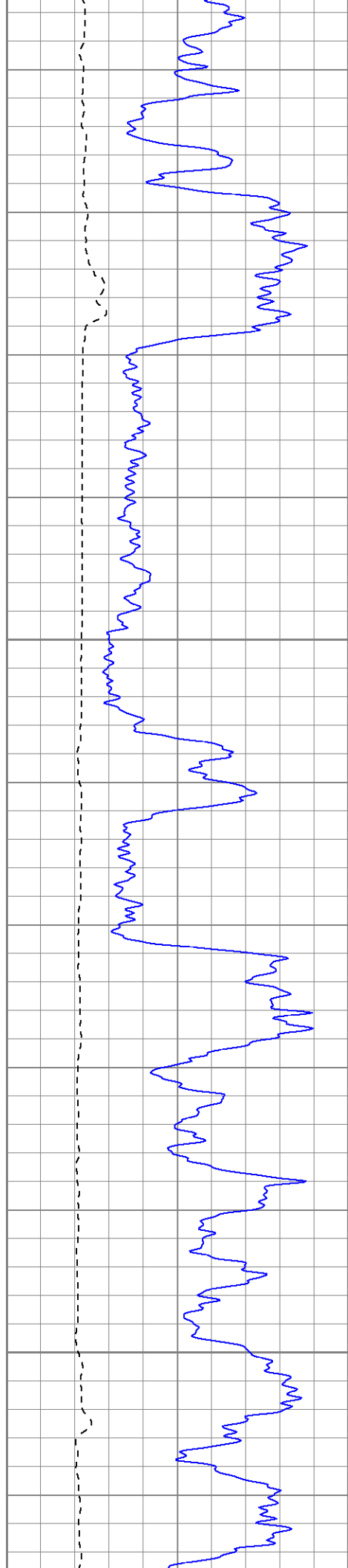


1250

1300

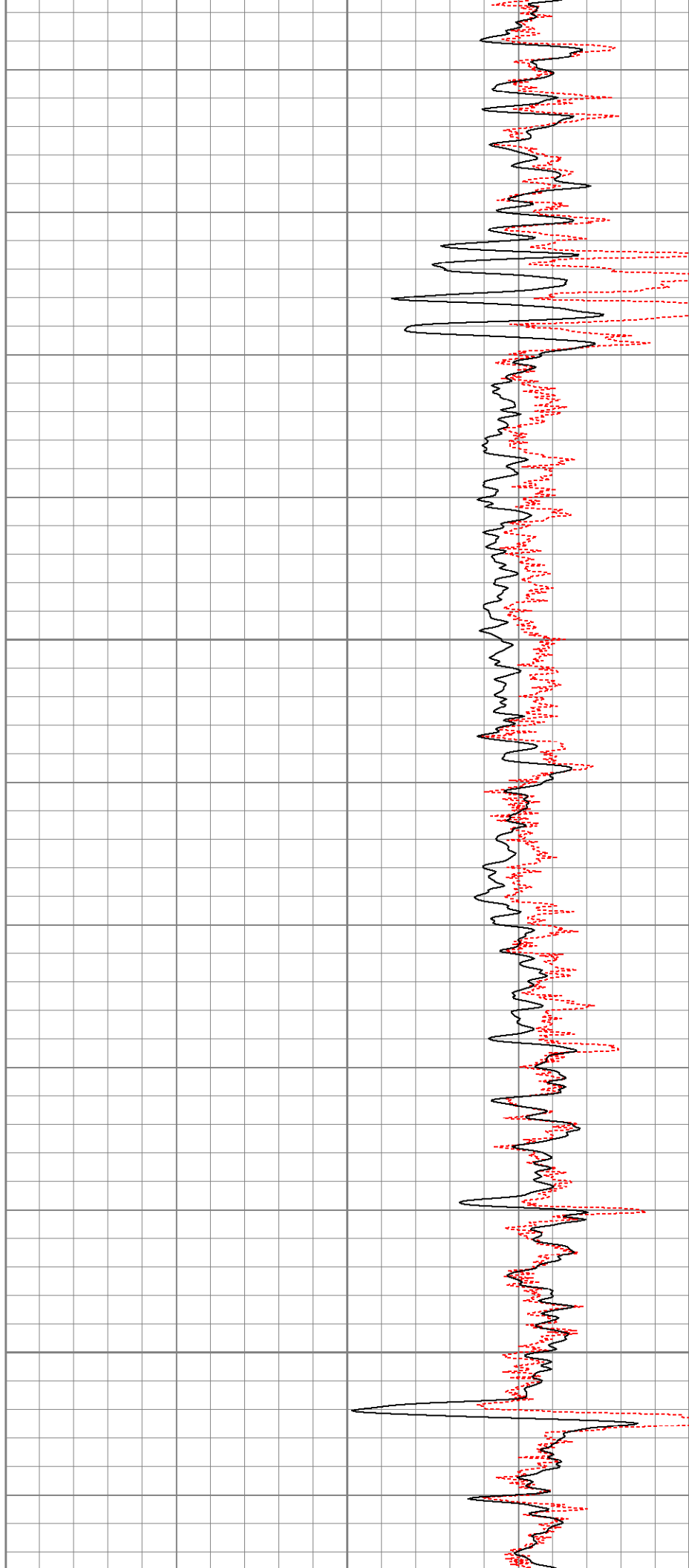
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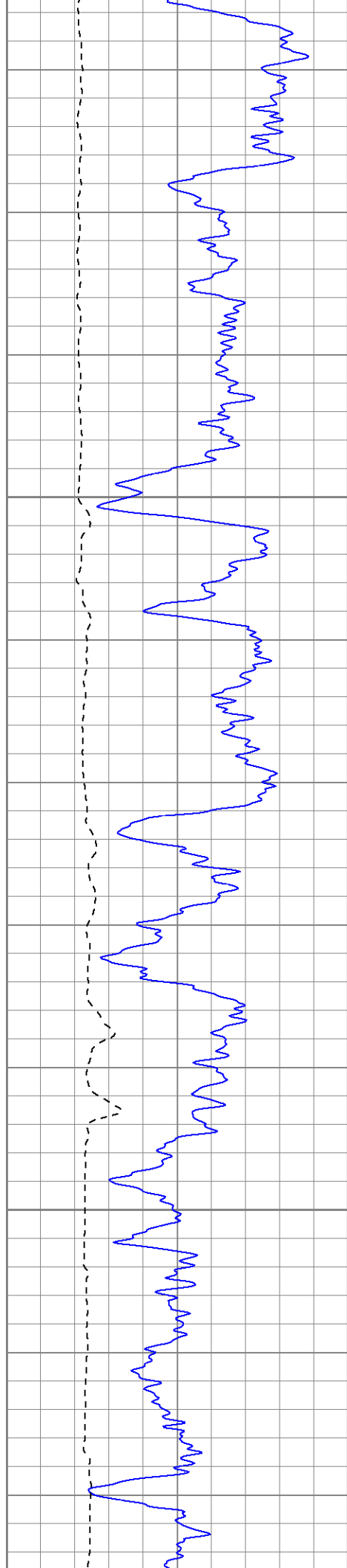




1400

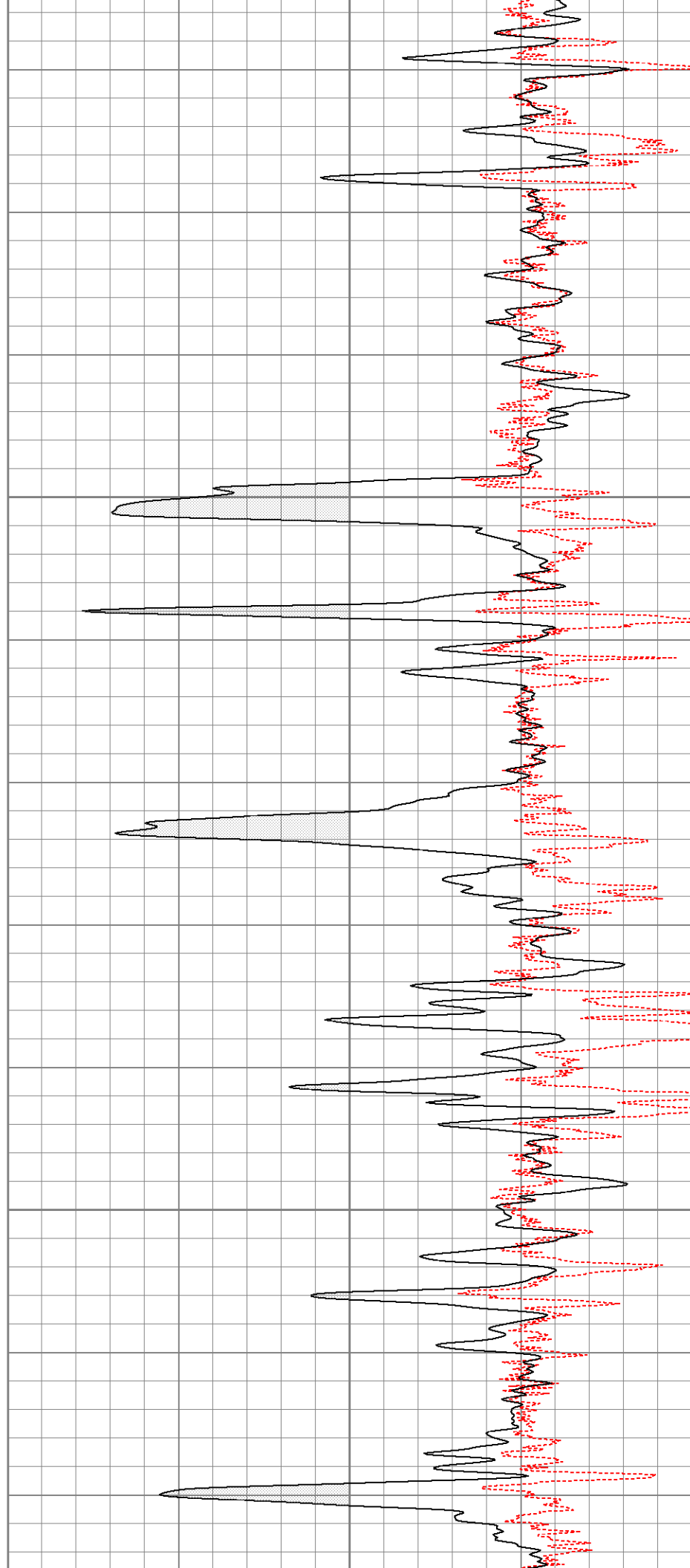
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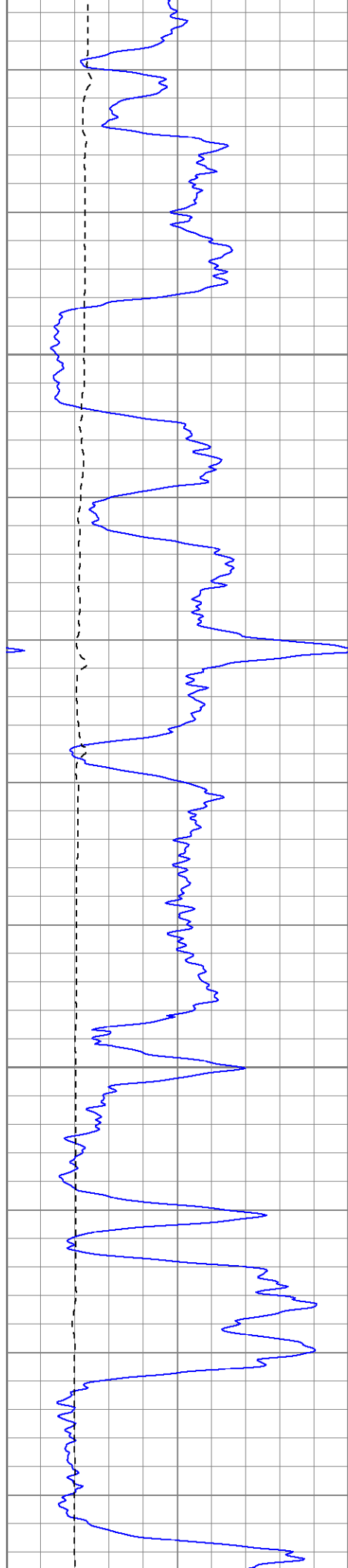




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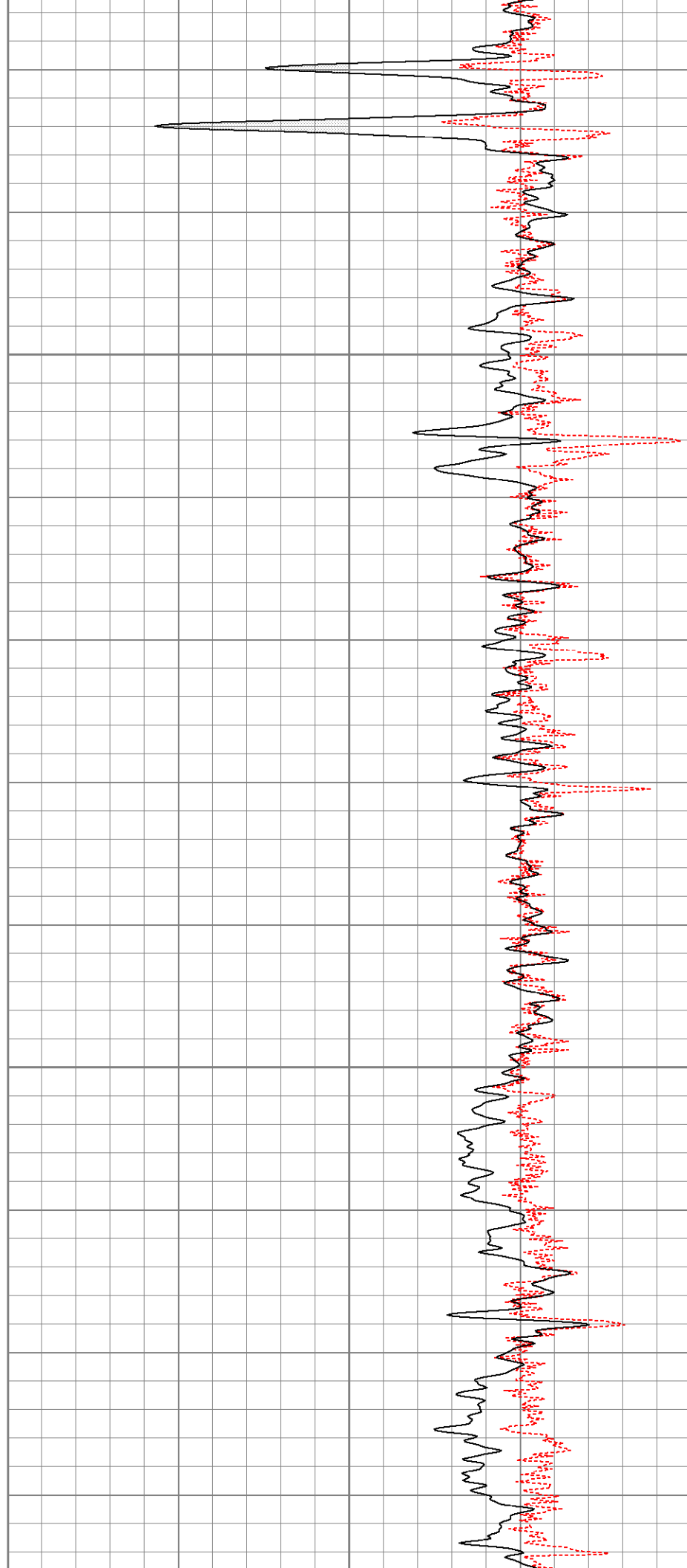
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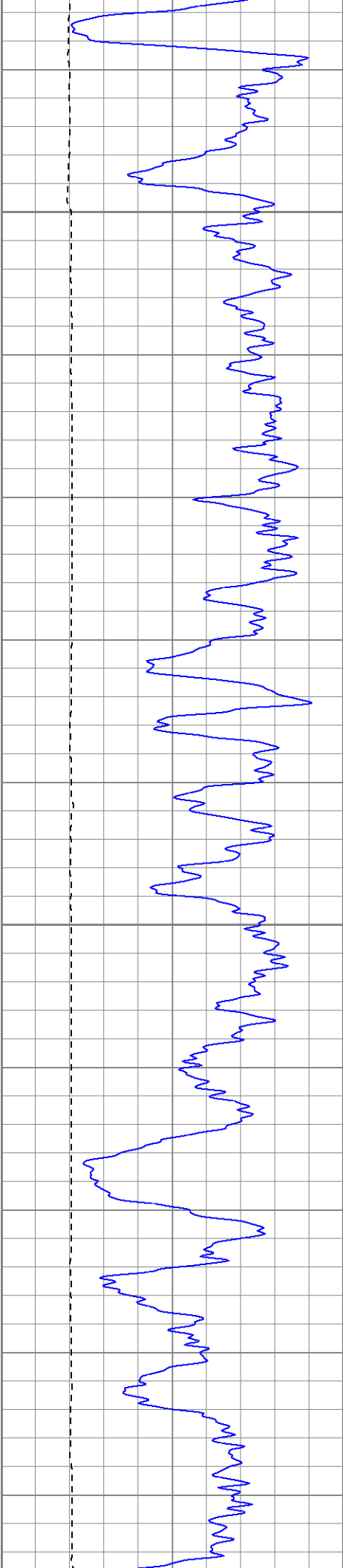




1600

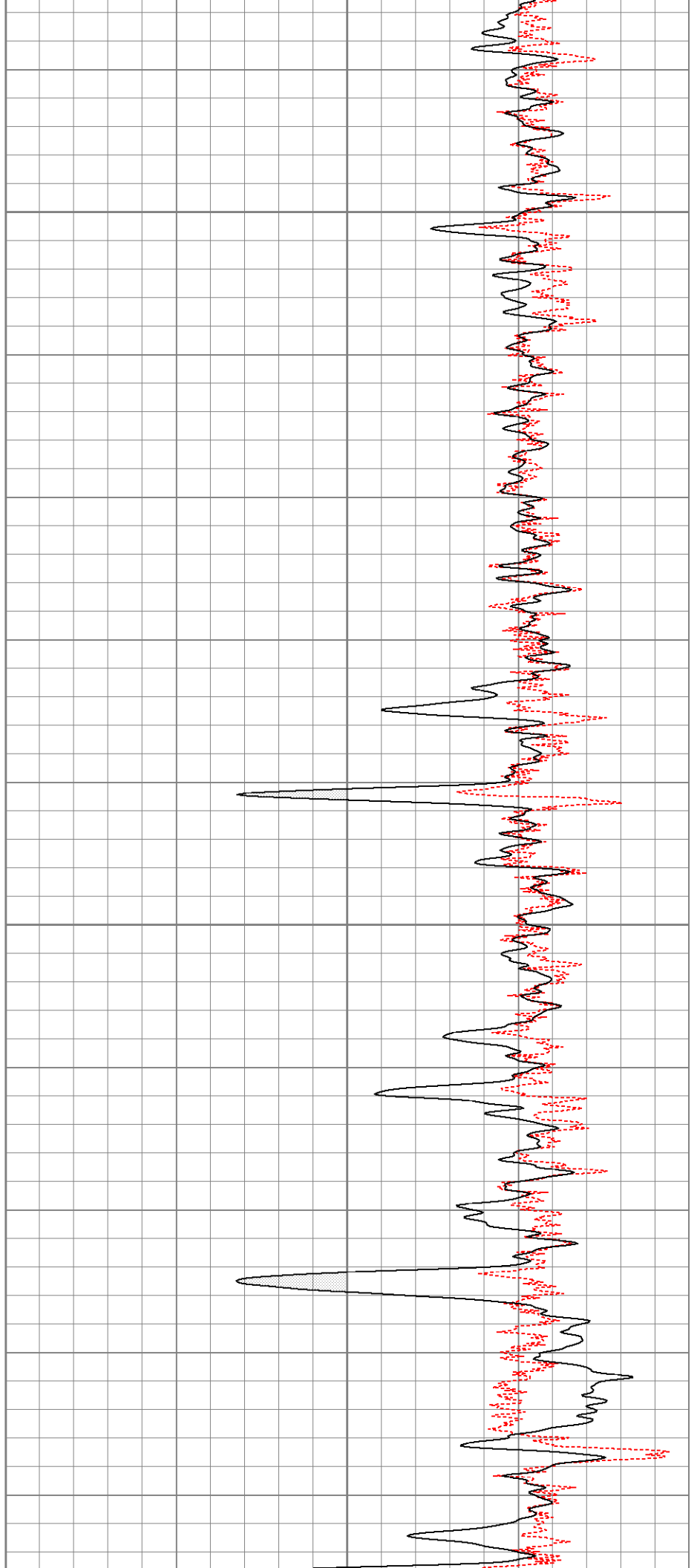
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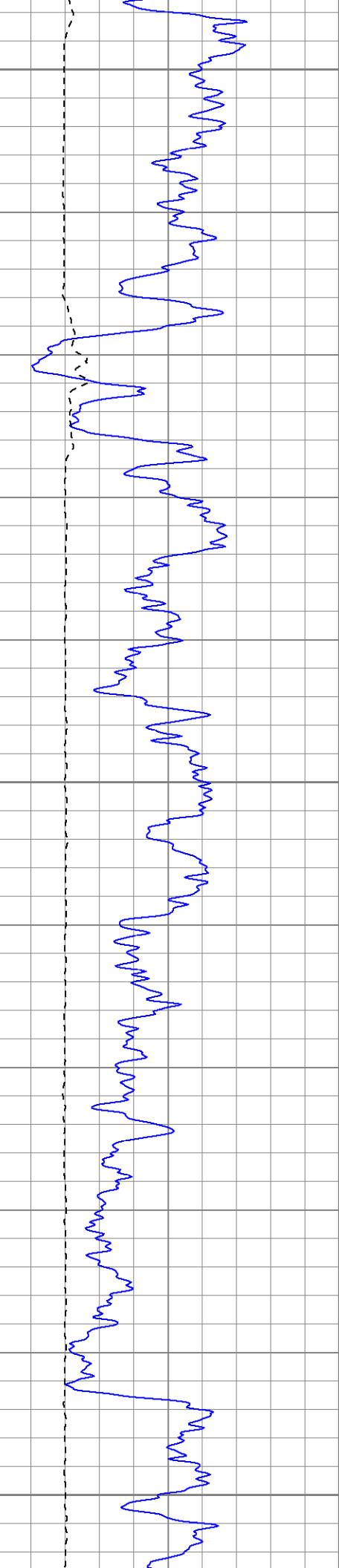




1700

1750

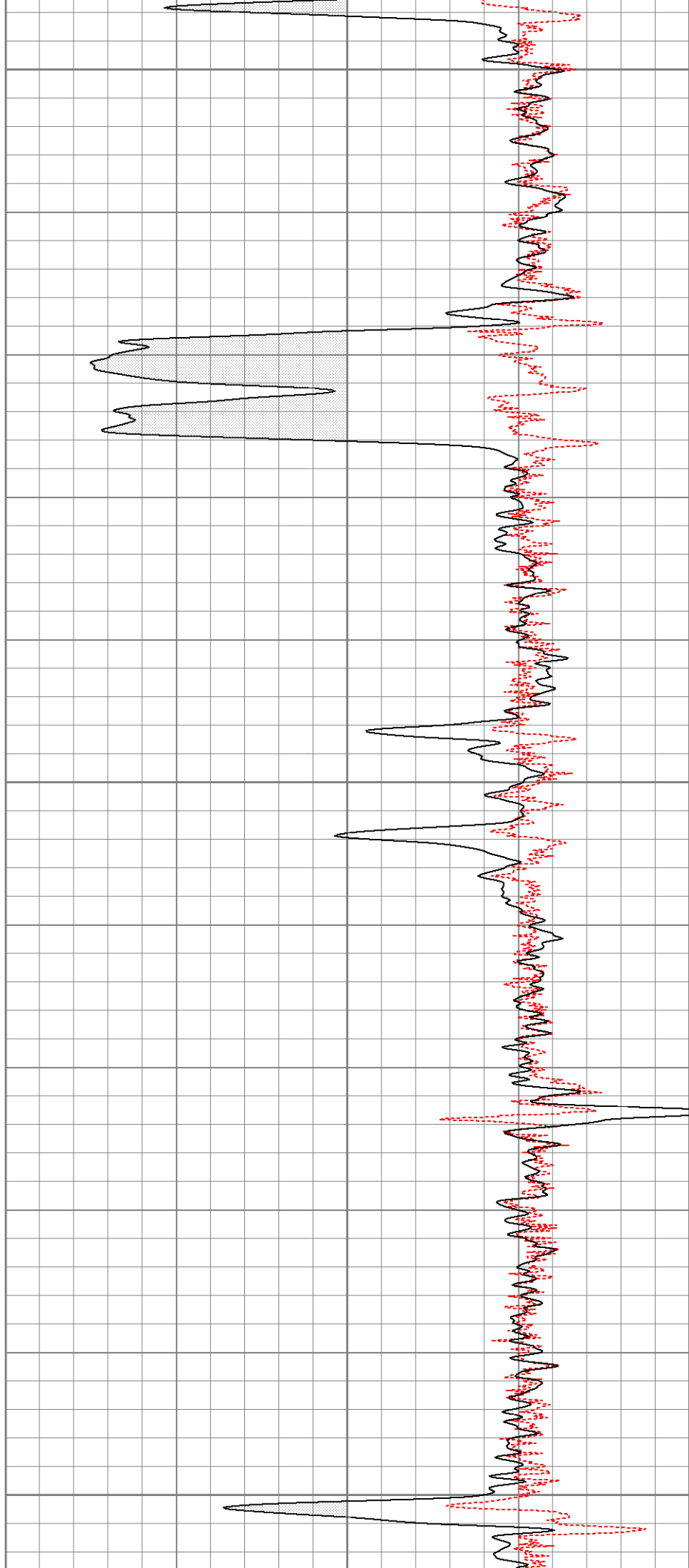


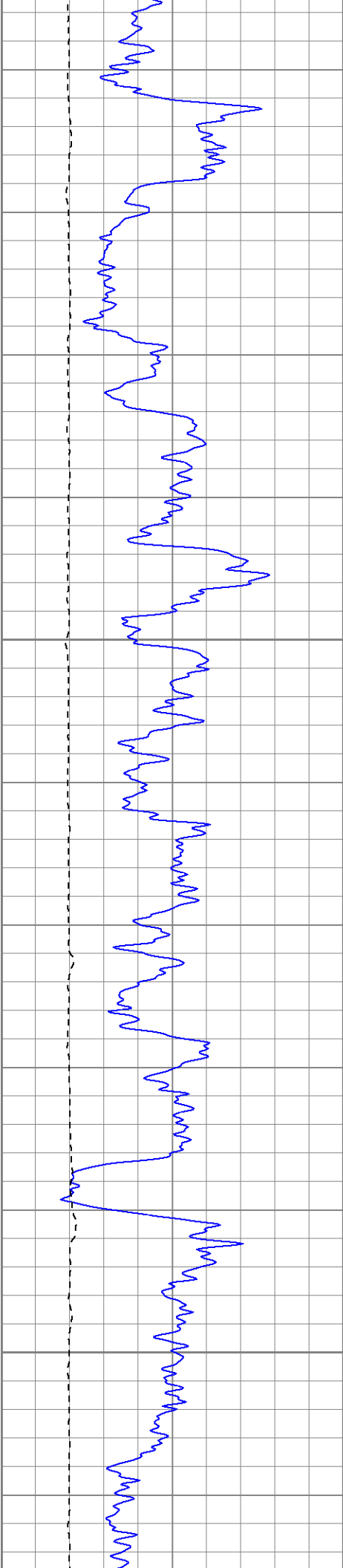


1800

1850

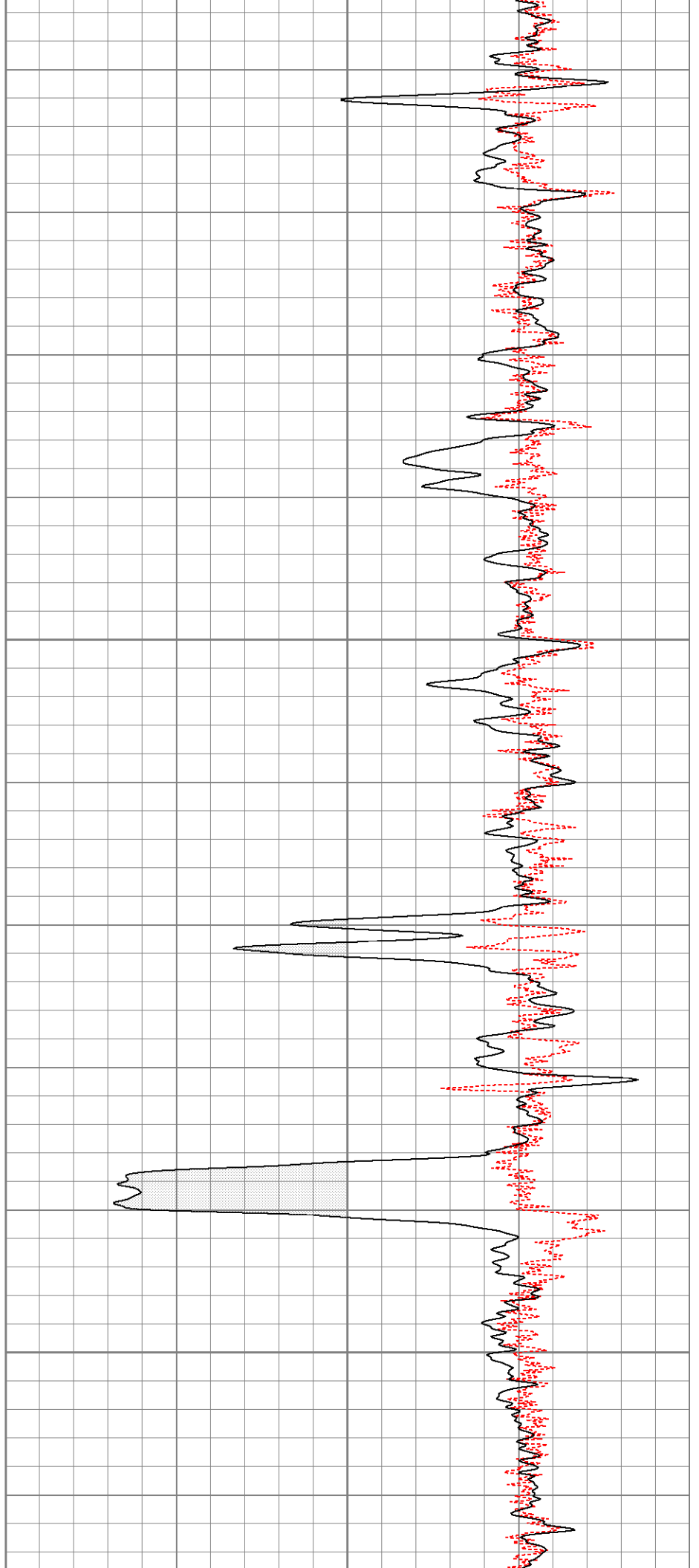
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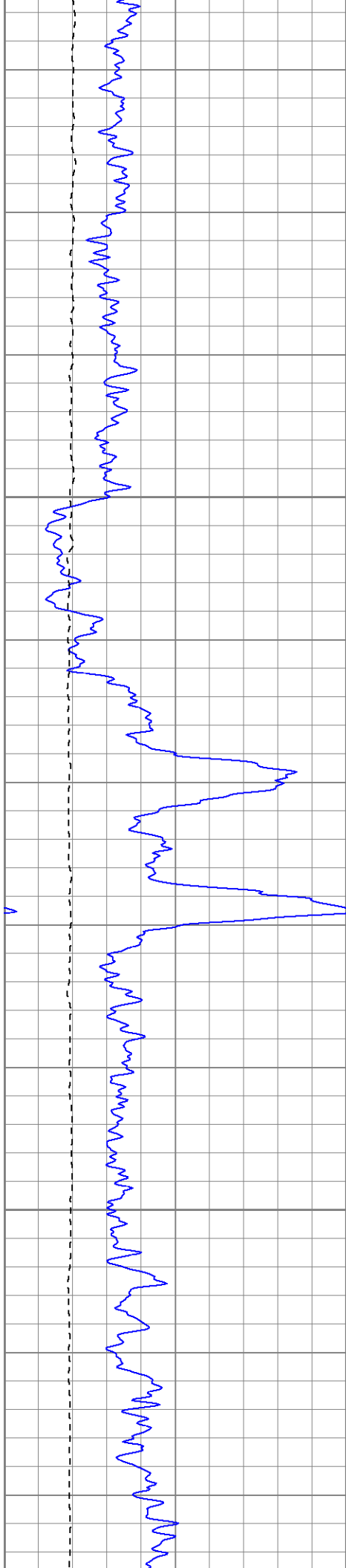




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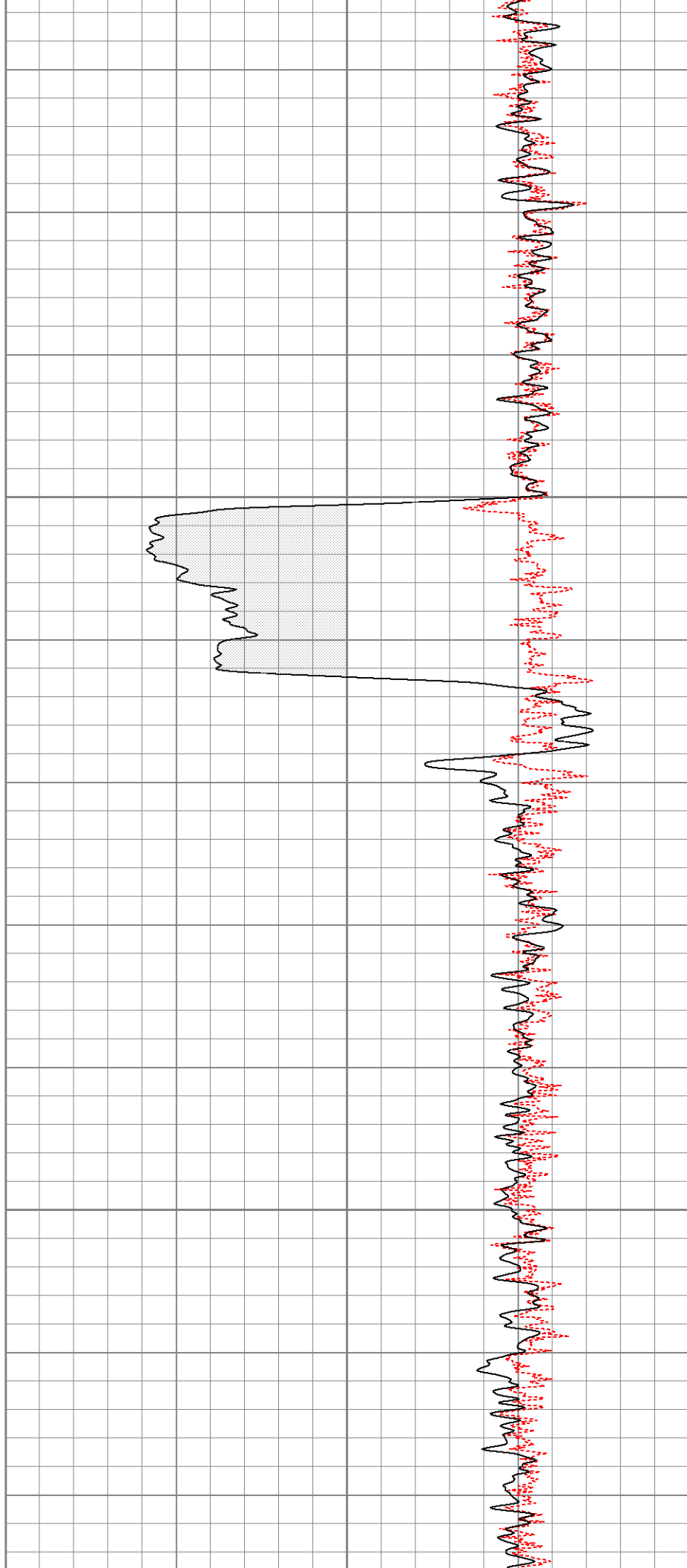
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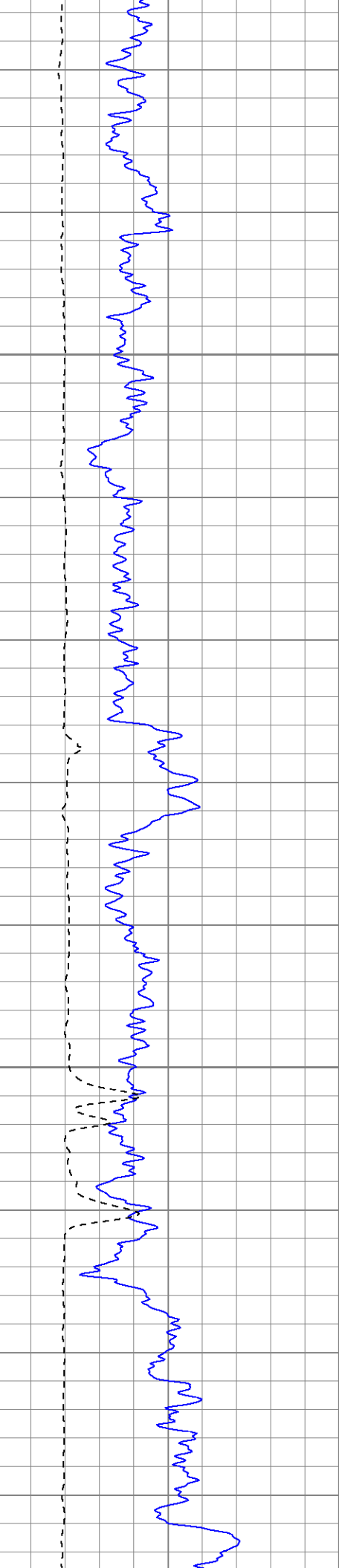




2050

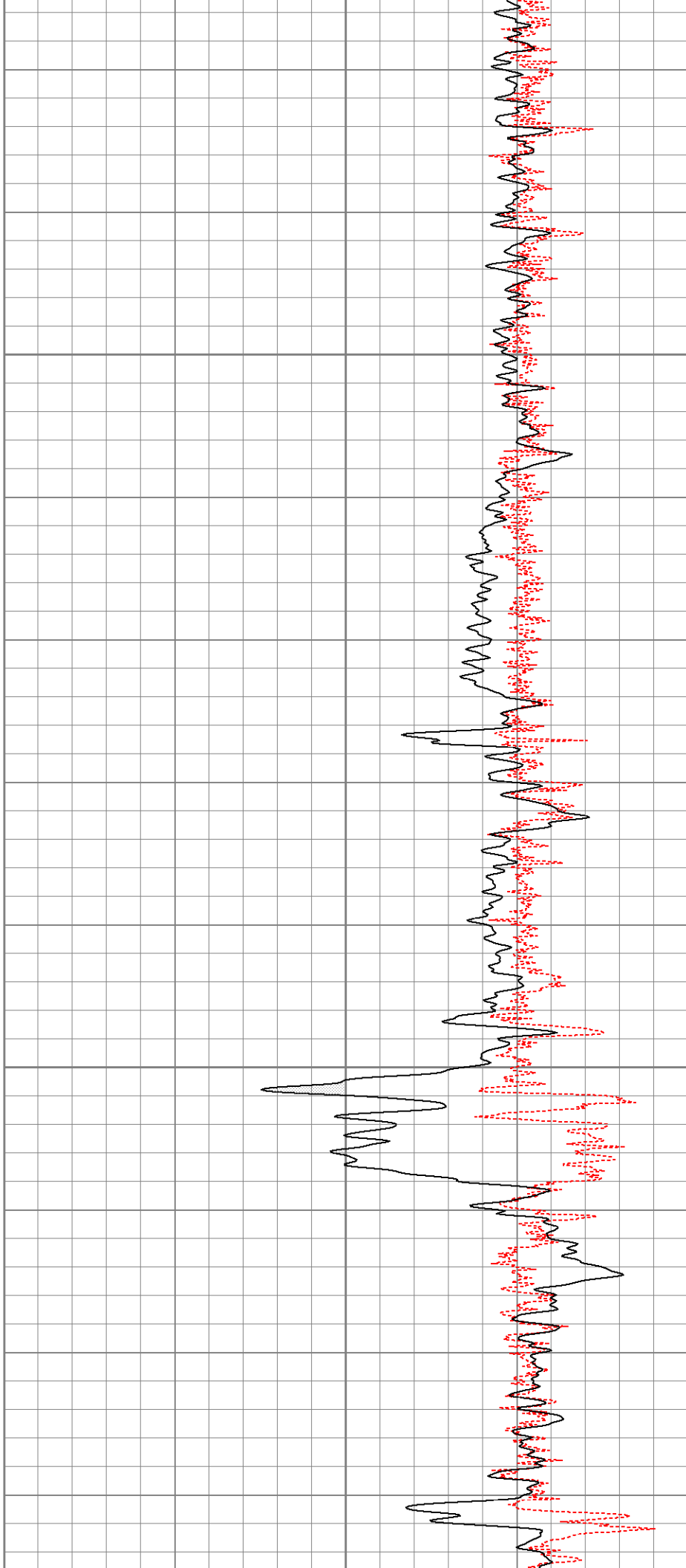
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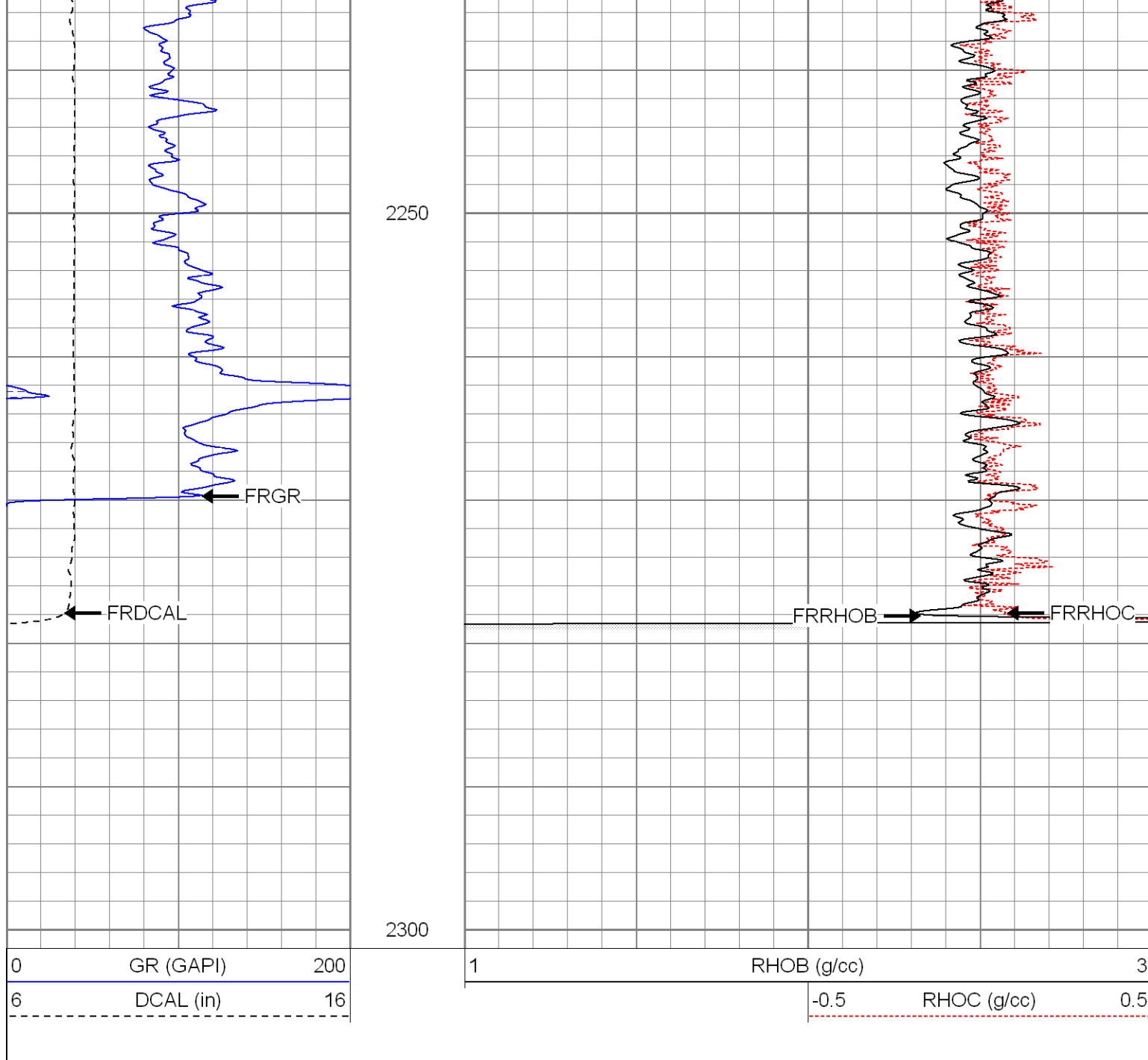




2150

2200





Calibration Report

Database File: xtoge3315.db
 Dataset Pathname: pass1
 Dataset Creation: Wed Feb 27 13:53:52 2008 by Log Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Wed Feb 06 09:29:54 2008
 Downhole Cal Performed: Wed Feb 06 09:31:14 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.002	0.622	V	0.000	500.000	mmho-m	806.307	-1.737
Medium	0.005	0.745	V	0.000	550.000	mmho-m	742.812	-3.450


Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.003	0.622	V	0.000	500.000	mmho-m	806.784	-2.176
Medium	0.005	0.745	V	0.000	550.000	mmho-m	743.382	-3.766
Downhole Calibration								
	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.241	500.512	mmho-m	0.438	500.143	mmho-m	0.999	0.197
Medium	0.213	550.041	mmho-m	0.313	549.891	mmho-m	1.000	0.100
Shallow	2.508	0.009	V	500.000	2.000	Ohm-m	125.000	-3.000











Compensated Density Calibration Report								
Serial-Model:				2118-poilex				
Source / Verifier:				/				
Master Calibration Performed:				Tue Feb 19 13:14:22 2008				

Master Calibration								
		Density		Far Detector		Near Detector		
Magnesium		1.710	g/cc	689.13		662.28	cps	
Aluminum		2.590	g/cc	156.84		466.09	cps	
Spine Angle = 76.65				Density/Spine Ratio = 0.578				
		Size		Reading				
Small Ring		8.50	in	4.33		V		
Large Ring		14.00	in	8.24		V		

Gamma Ray Calibration Report								
Serial Number:			2000					
Tool Model:			P2000					
Performed:			Mon Feb 18 07:40:11 2008					
Calibrator Value:			1.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			1.0	cps				
Sensitivity:			0.2700	GAPI/cps				

Neutron Calibration Report								
Serial Number:			5145					
Tool Model:			G					
Performed:			Wed Feb 06 10:21:29 2008					
Calibrator Value:			1200	NAPI				
Calibrator Reading:			1700	cps				
Sensitivity:			1	NAPI/cps				

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.00		None	0.75	1.50	5.00
			NEU-G (5145)	5.65	3.50	85.00

GR	31.30			Gearhart Epithermal			
				GR-P2000 (2000)			
LSD DCAL SSD	22.88 22.47 22.30			CDL-poilex (2118)			
CILD SP	10.60 10.60			DIL-G (5375) Gearhart	21.05	4.00	345.00
CILM	6.89						
RLL3	1.70						
Dataset: xtoge3315.db: field/well/run1/pass1 Total Length: 39.95 ft Total Weight: 750.00 lb O.D. 4.00 in							