



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

COMPENSATED DENSITY/NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 33-07
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09513 00

1794' FNL & 1819' FEL

Other Services
DIL

SEC 33 TWP 33S RGE 67W

Permanent Datum Ground Level Elevation 7636'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 7636'

Date 7-14-08

Run Number	One		
Depth Driller	2350'		
Depth Logger	2342'		
Bottom Logged Interval	2319'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 467'		
Casing Logger	467'		
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	4:00 P.M.		
Time Logger on Bottom	7:25 P.M.		
Maximum Recorded Temperature	99 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:

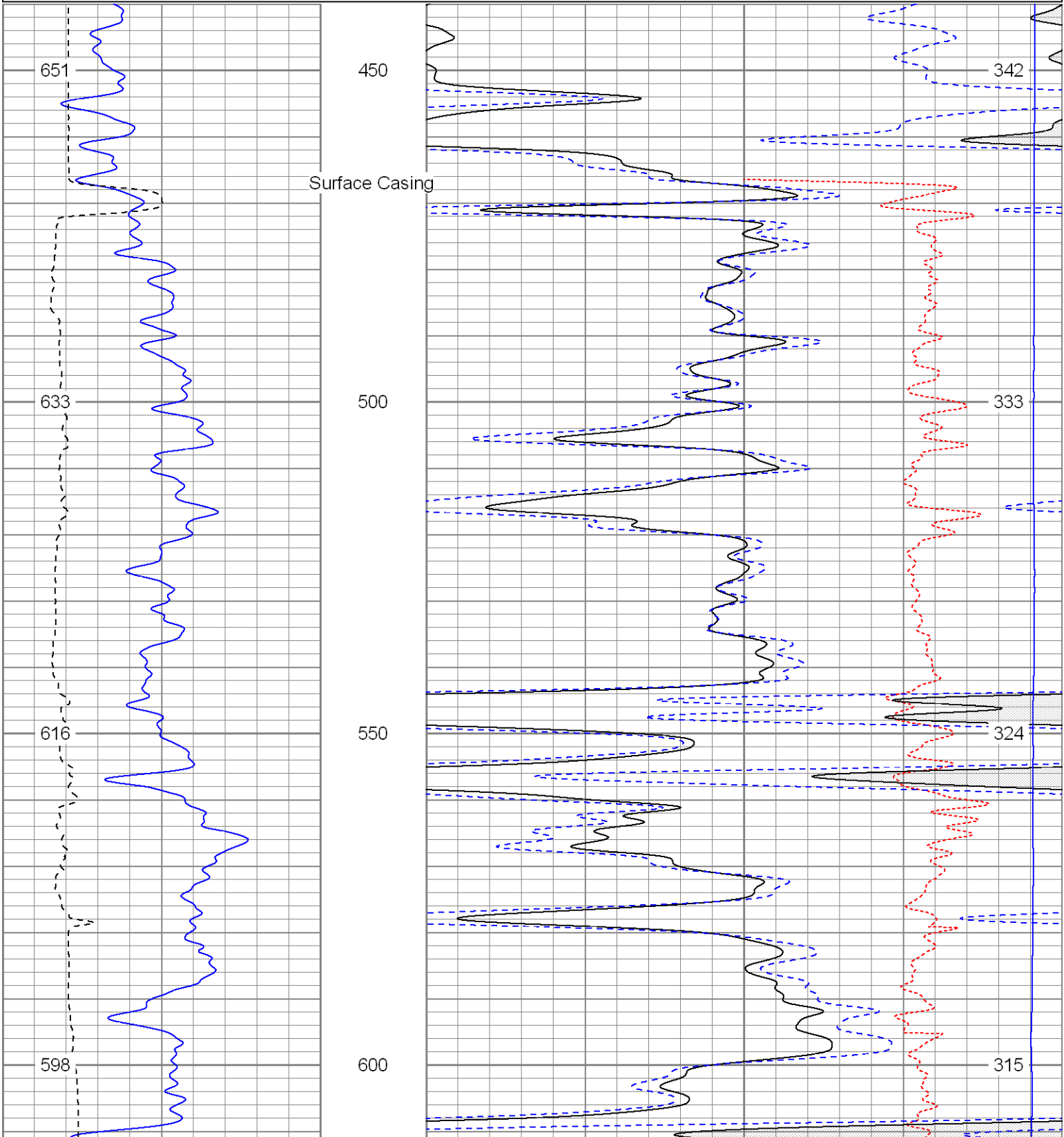
First Bosque Entrance to Cherry Canyon, stay on Cherry Canyon Road,
drive thru green gate, drive past the Compressor station 5, end on next drive thru location.

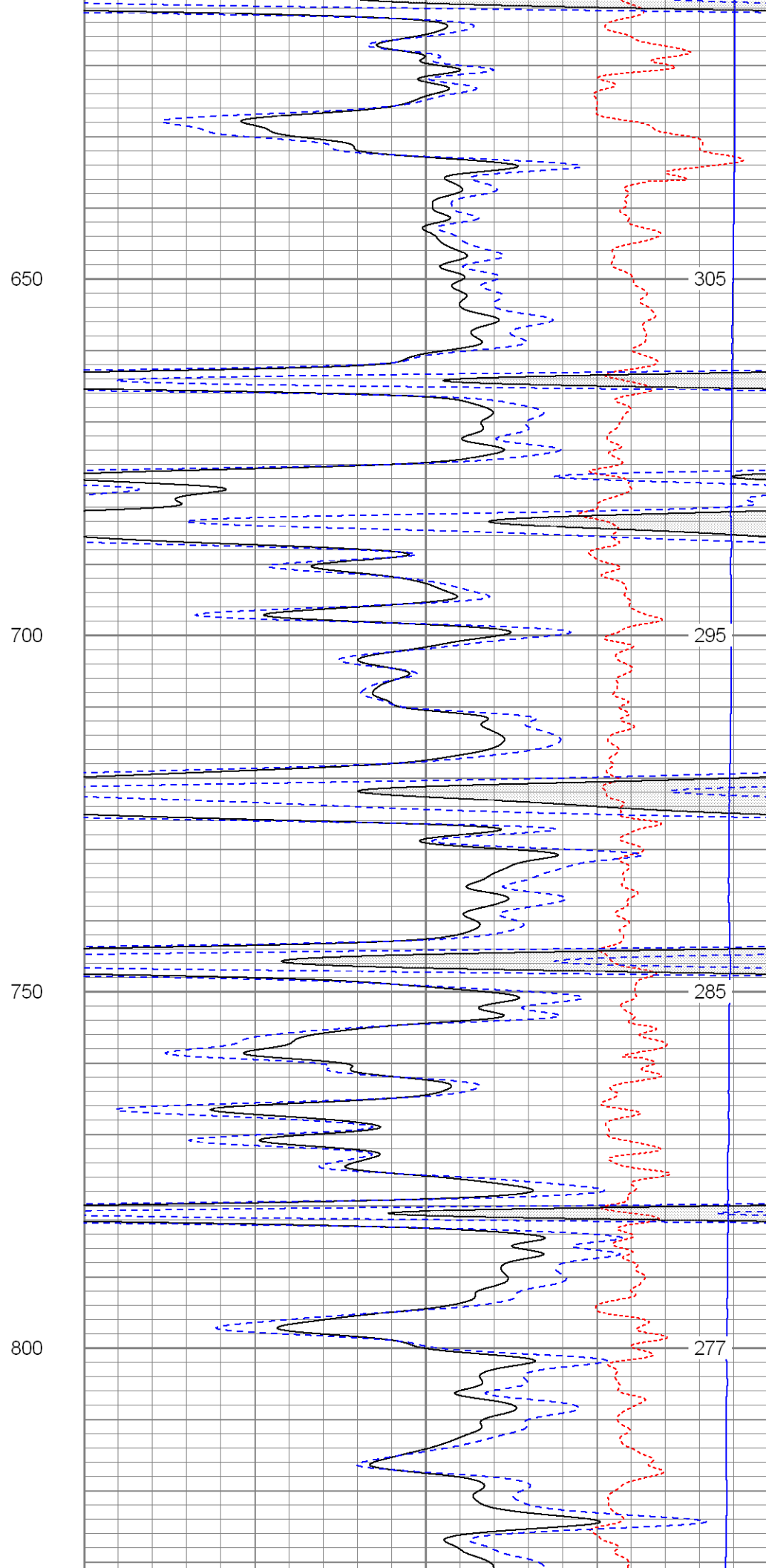
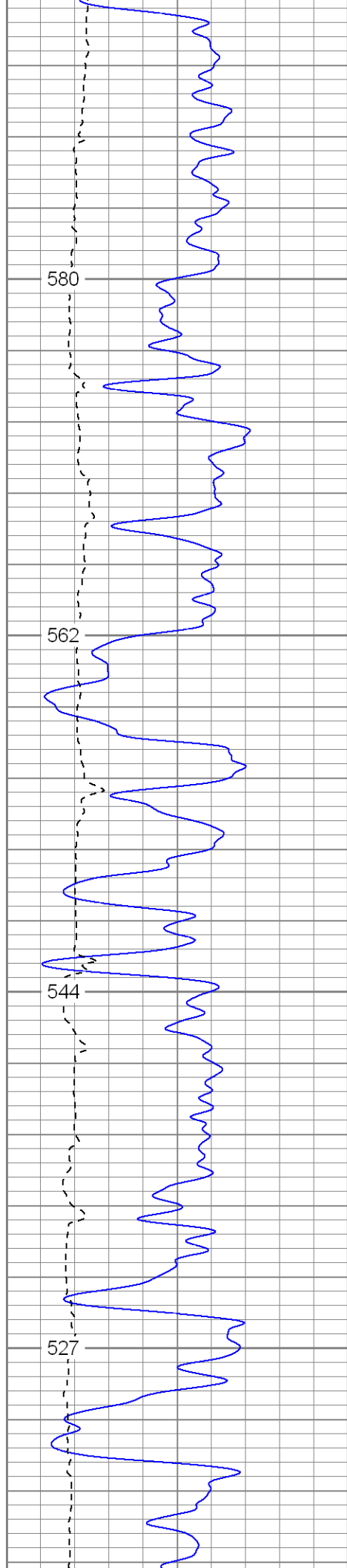


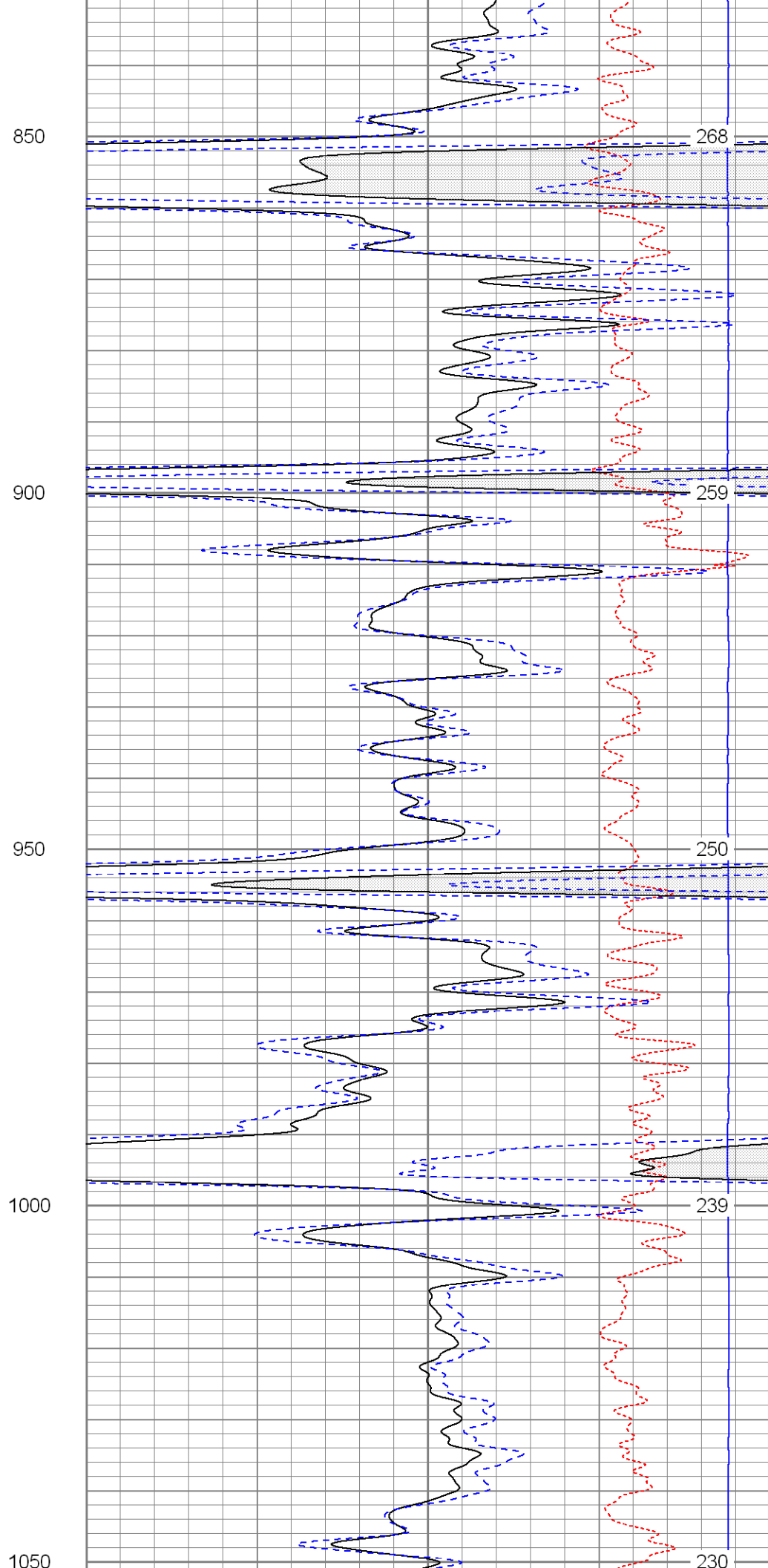
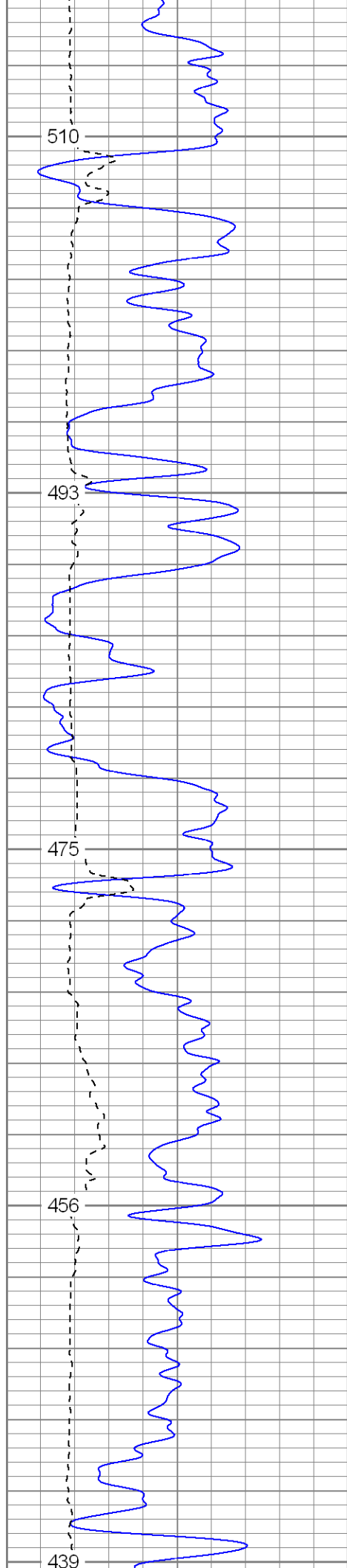
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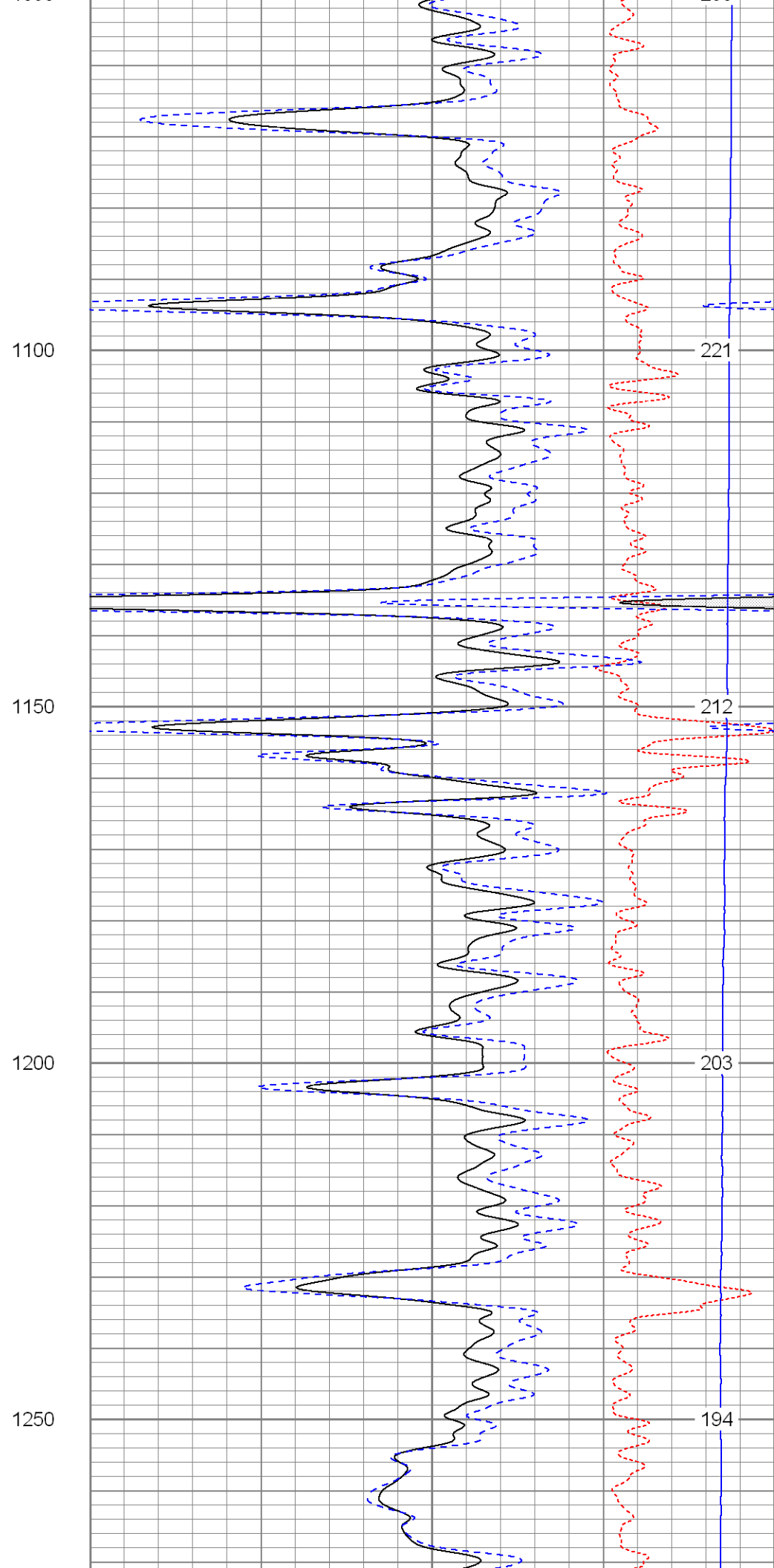
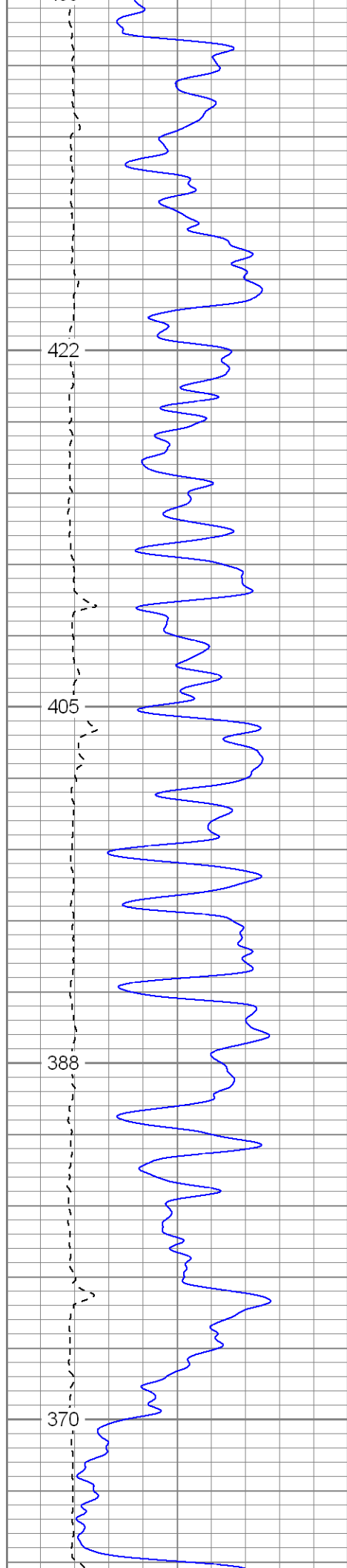
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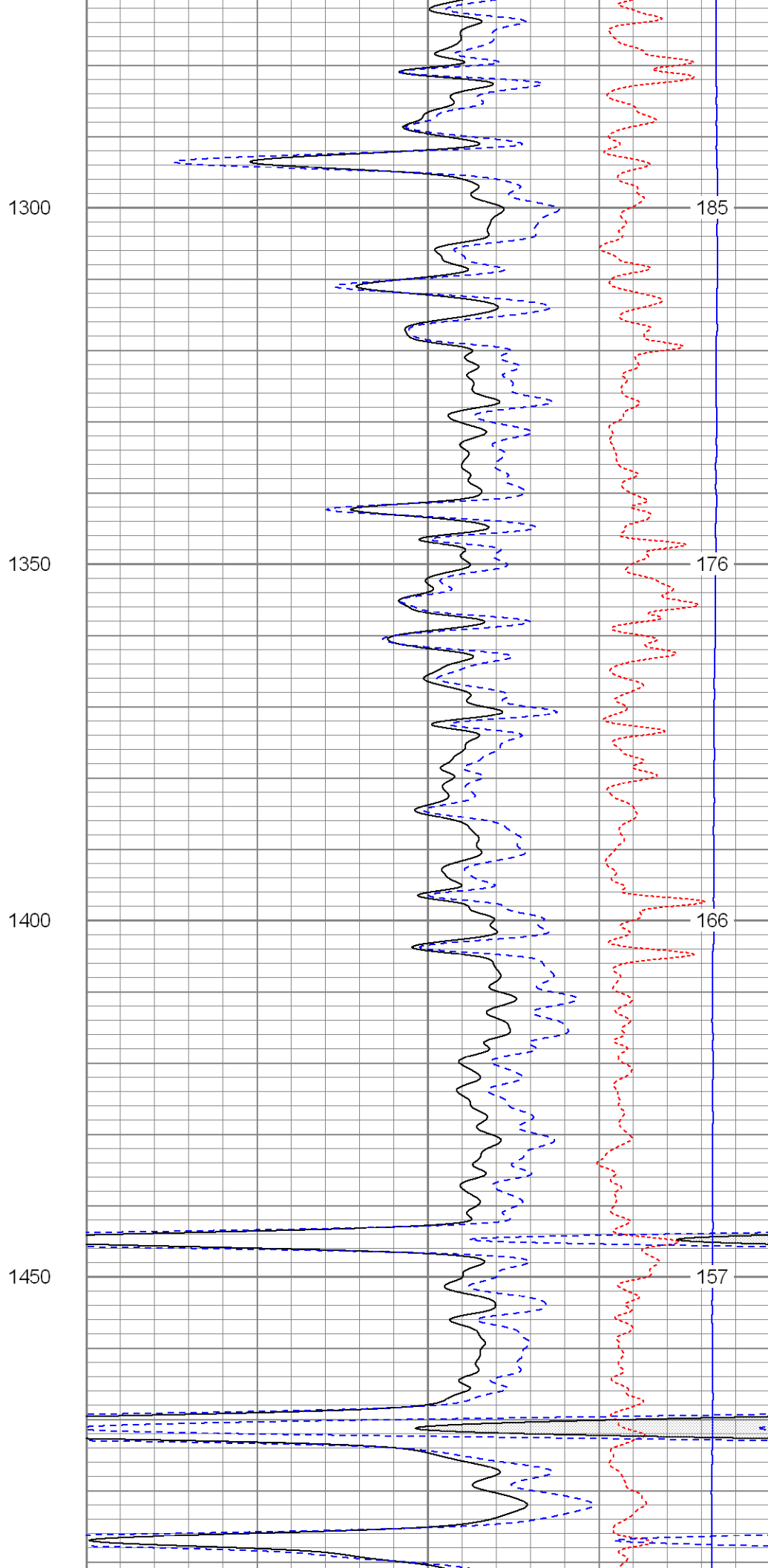
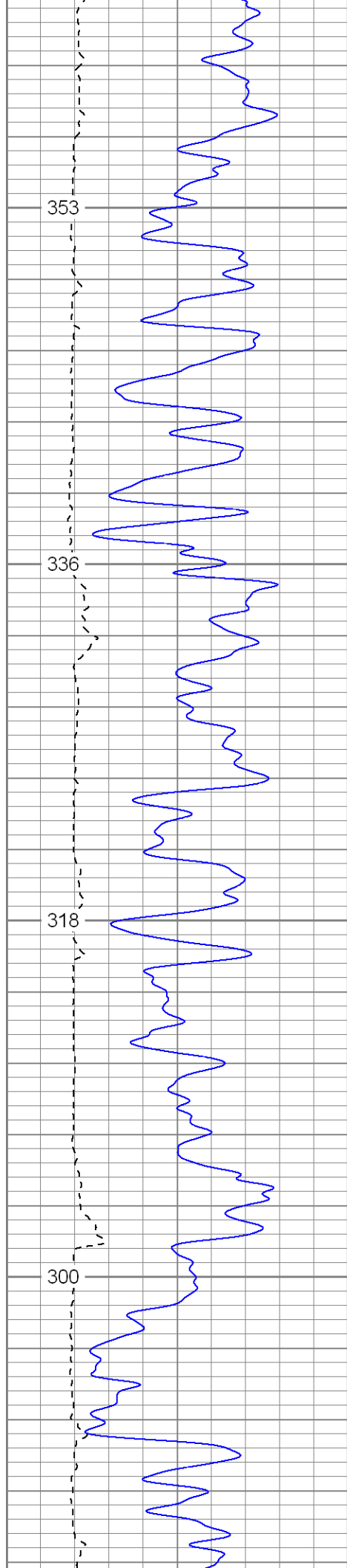
0	GR (GAPI)	200	2	RHOB (g/cc)		3
6	DCAL (in)	16	1	RHOB (g/cc)		2
TBHV (ft3)			30	DPOR (pu)		-10
				-0.5	RHOC (g/cc)	0.5
				7000	LTEN (lb)	0
						ABHV (ft3)

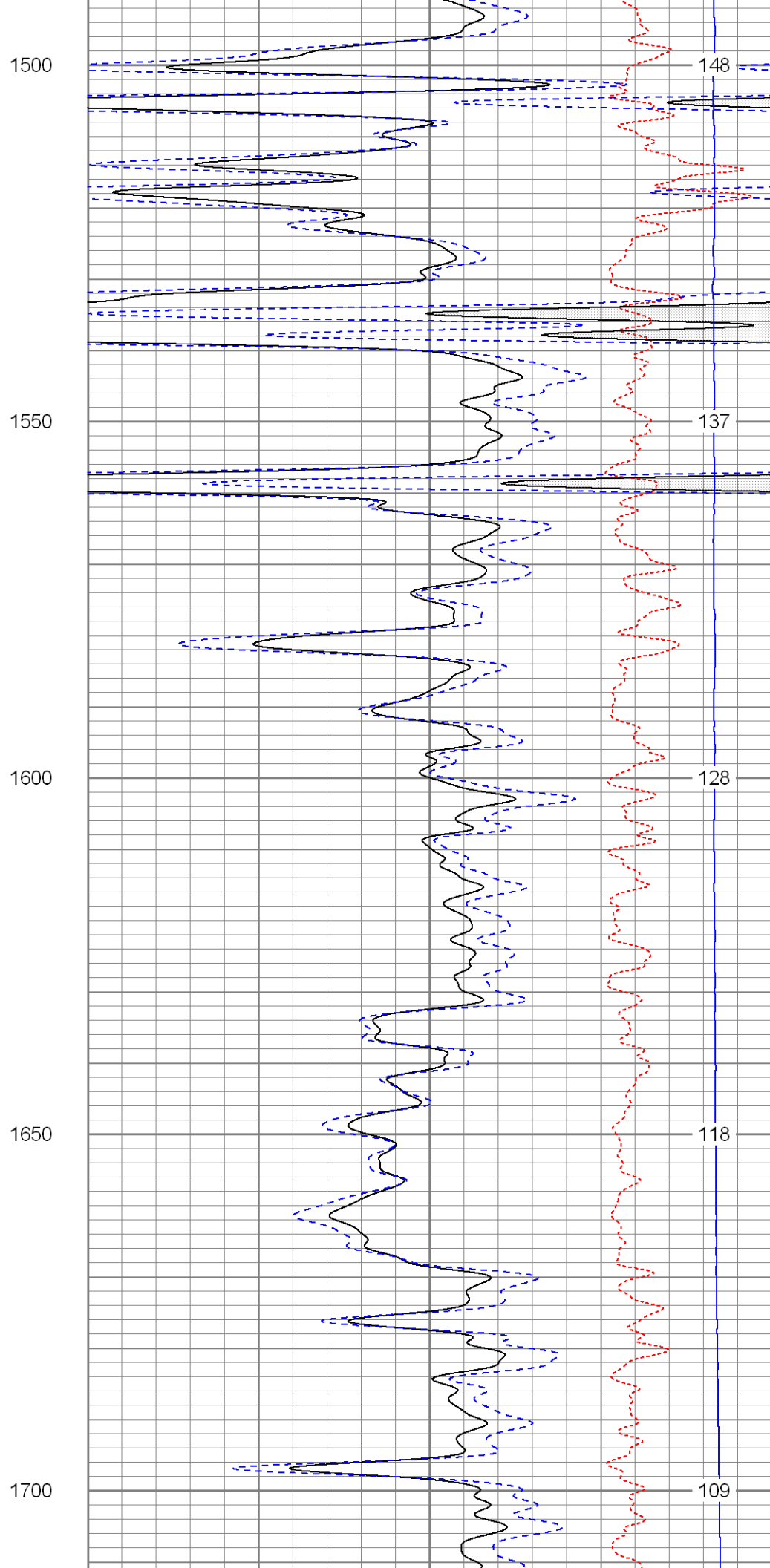
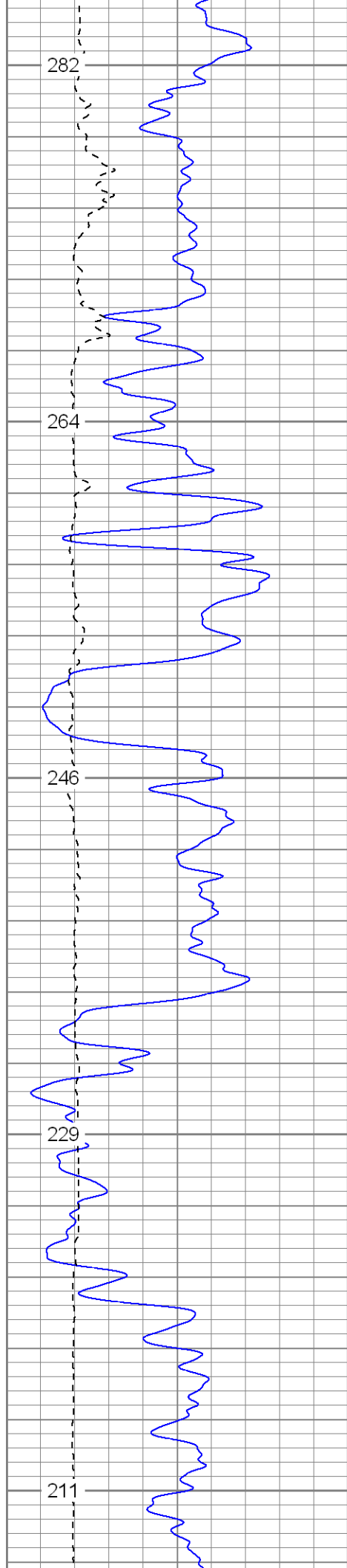


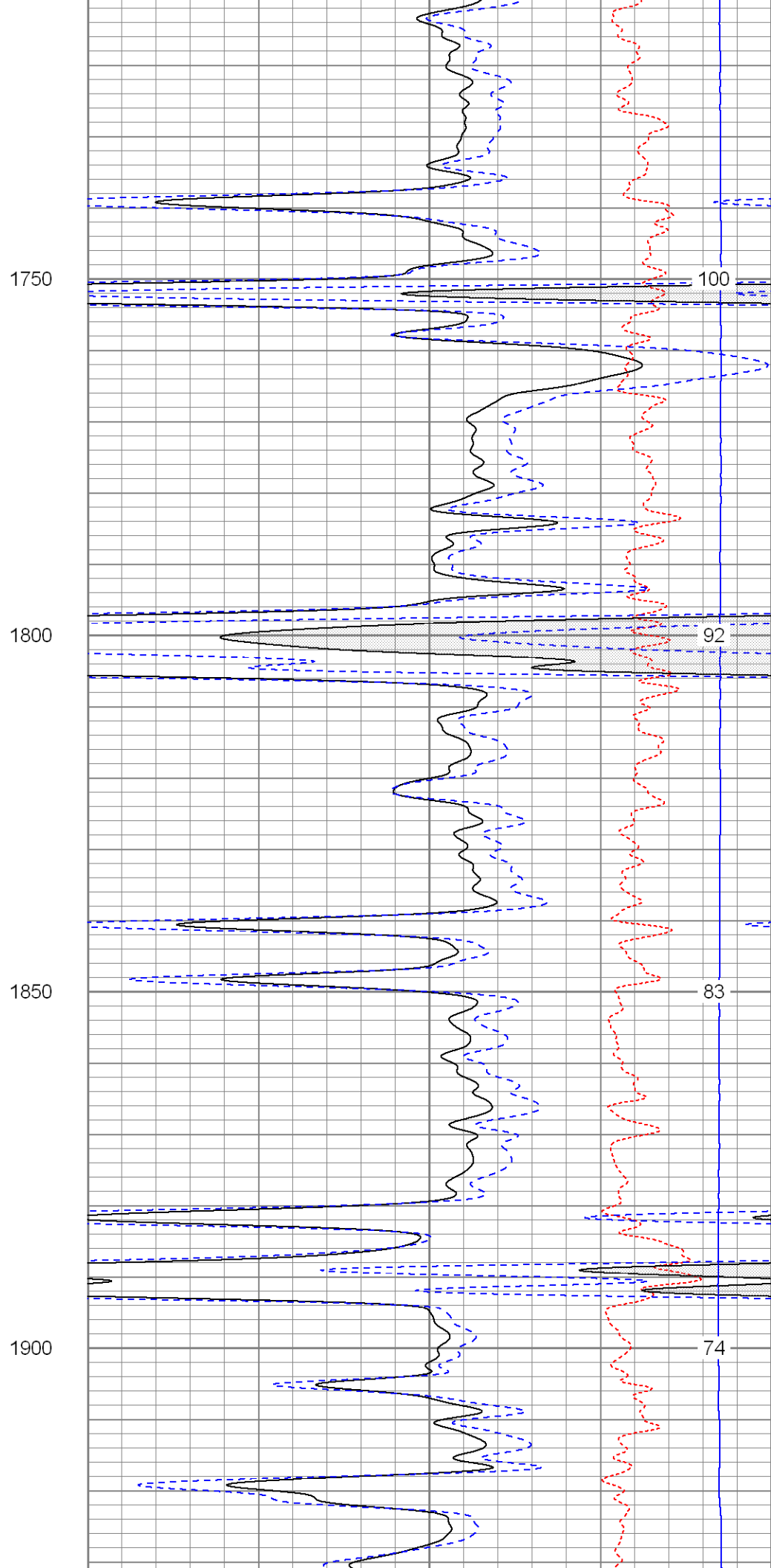
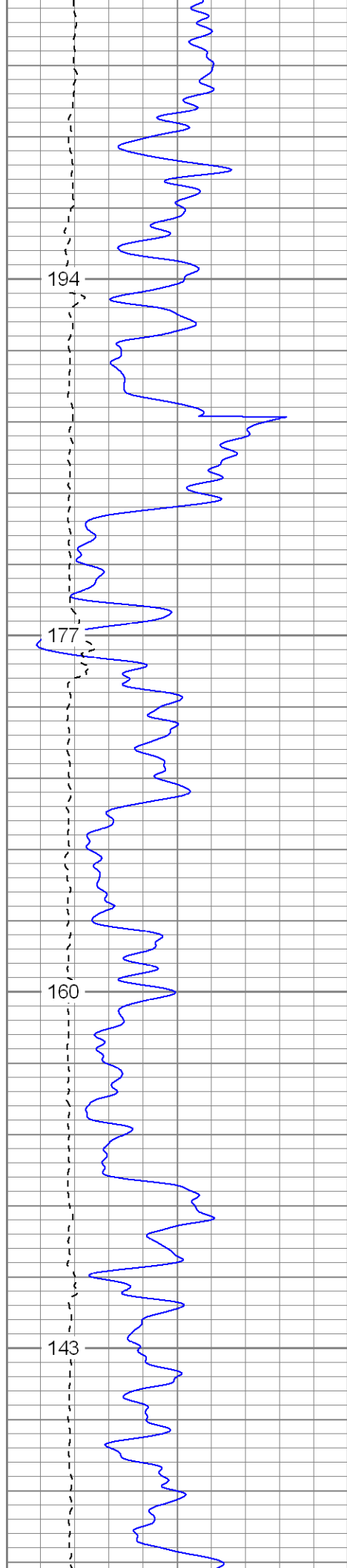


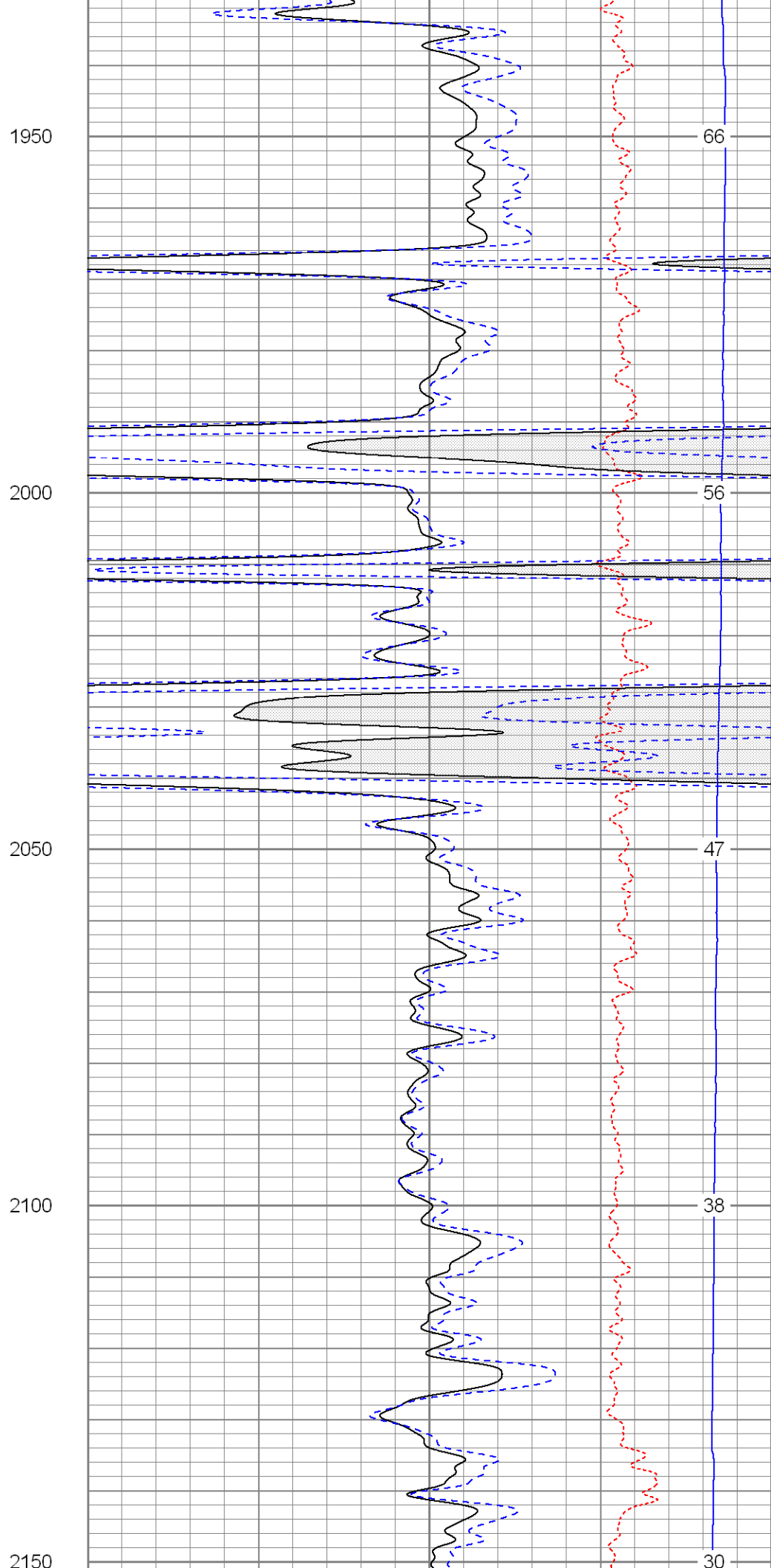
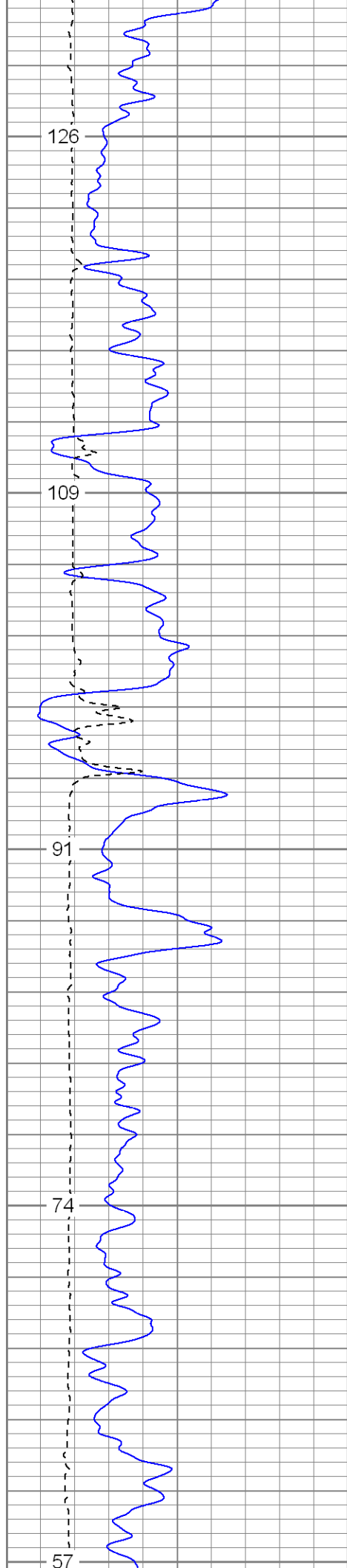


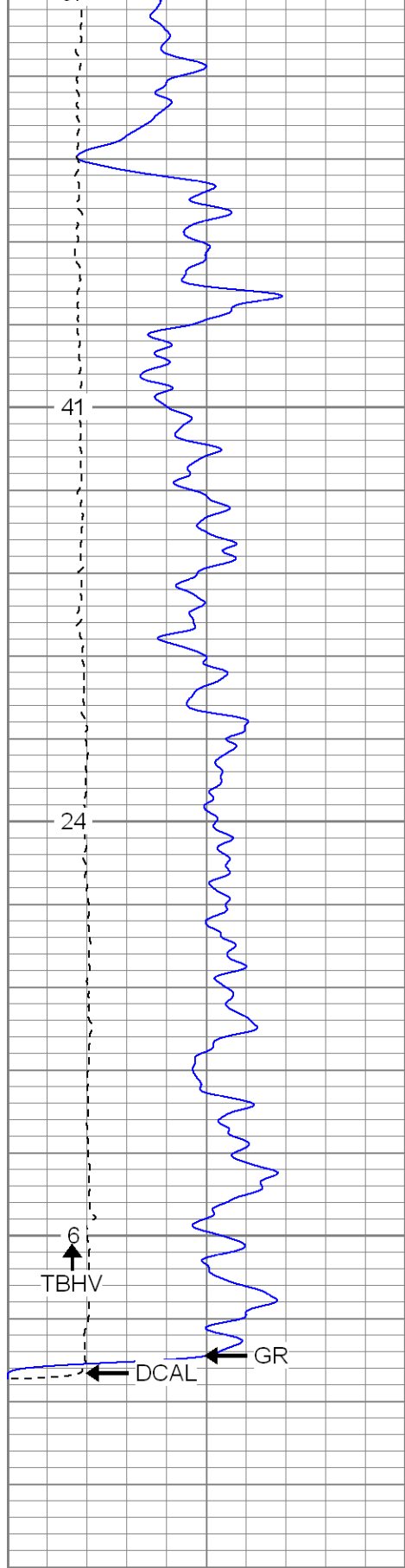




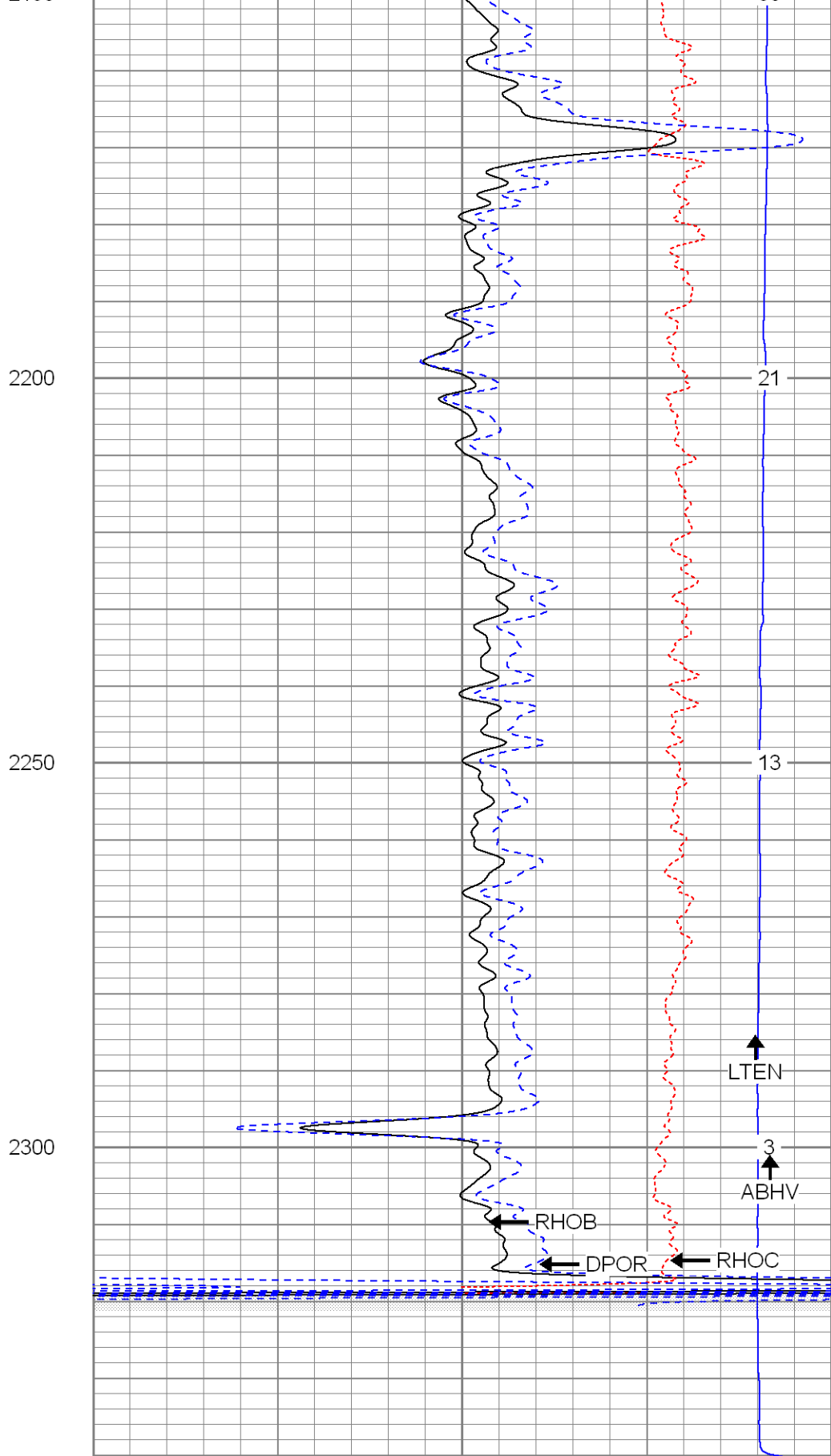








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



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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Main Pass

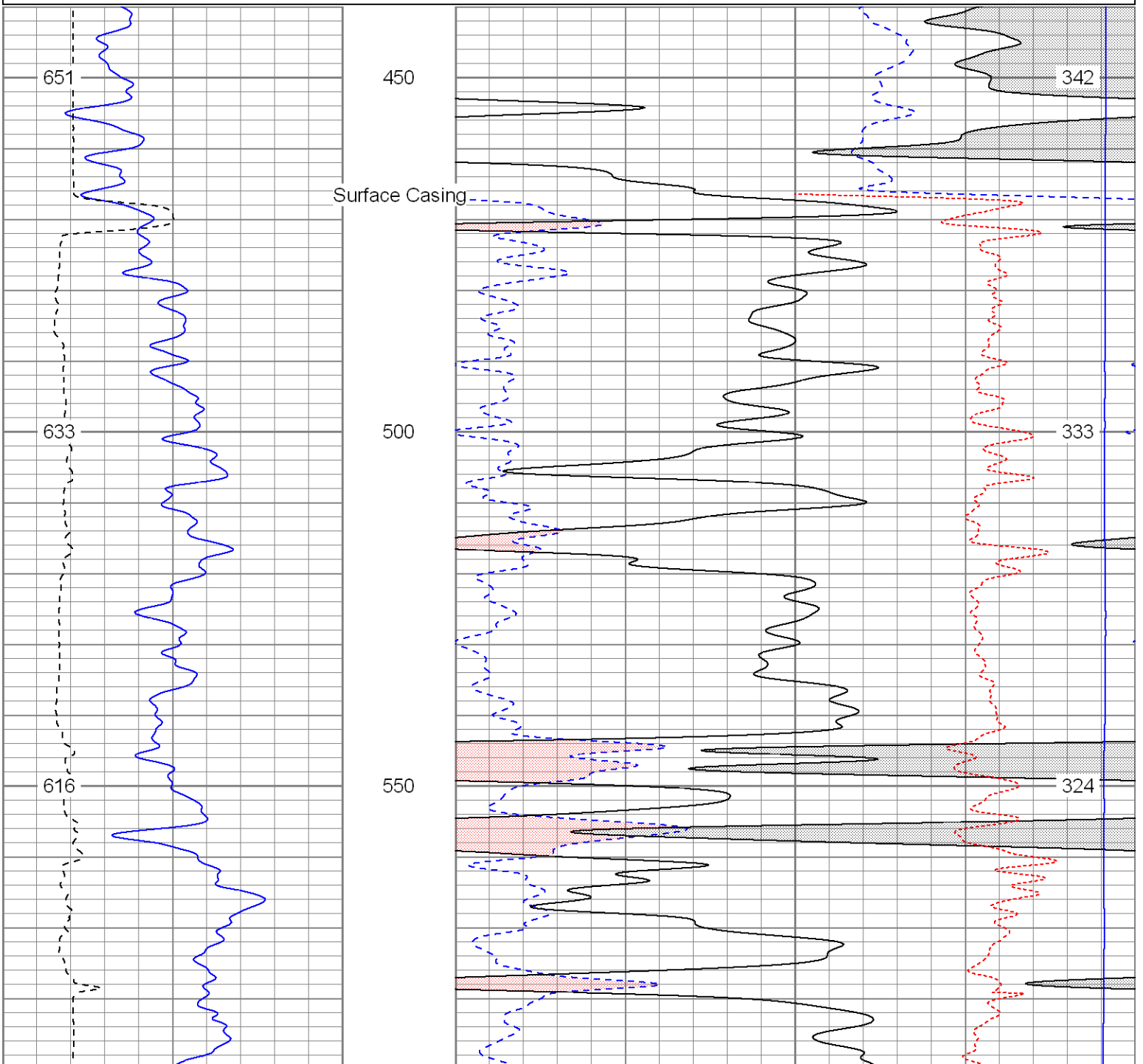
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Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Mon Jul 14 21:13:05 2008 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

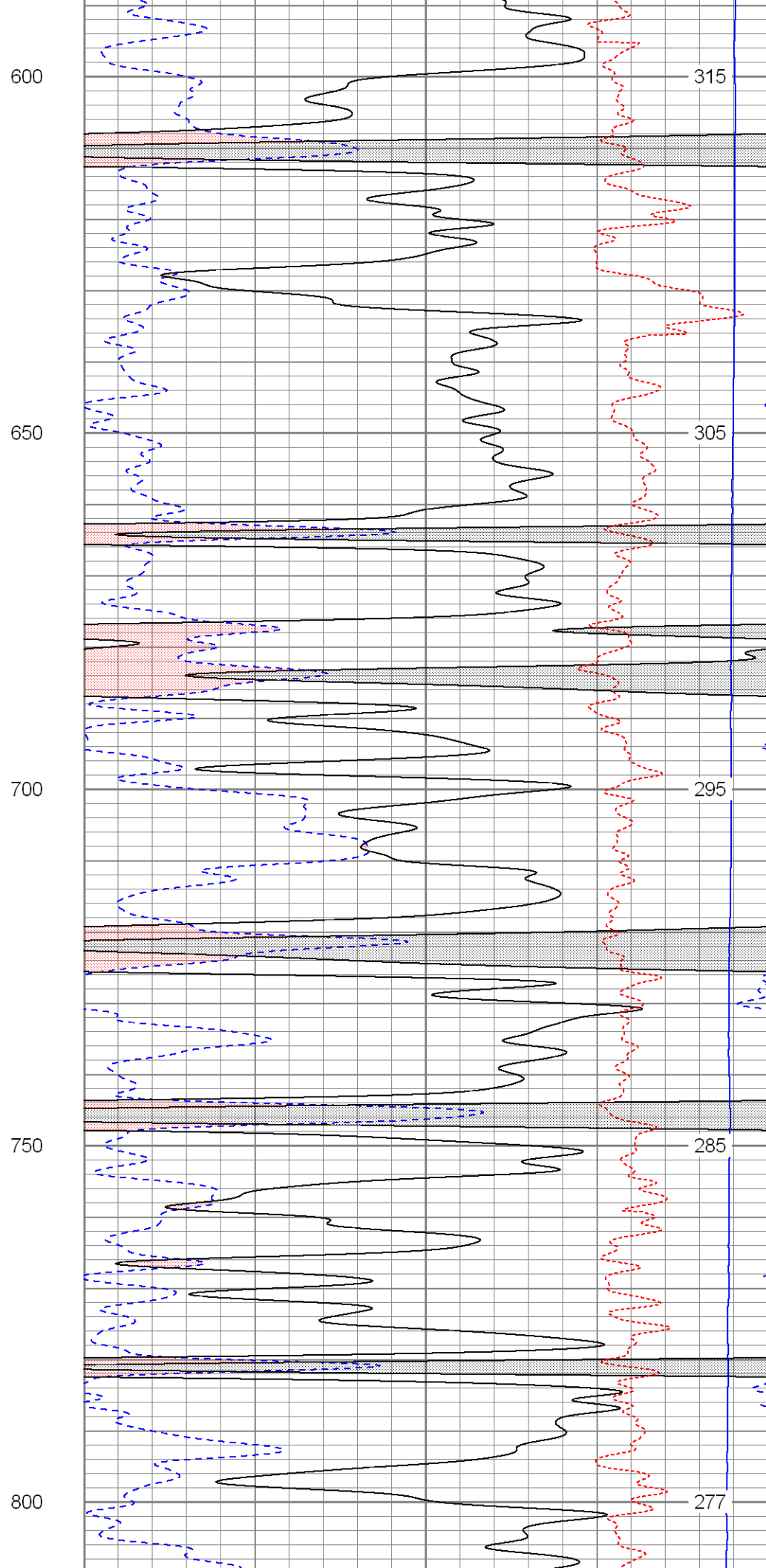
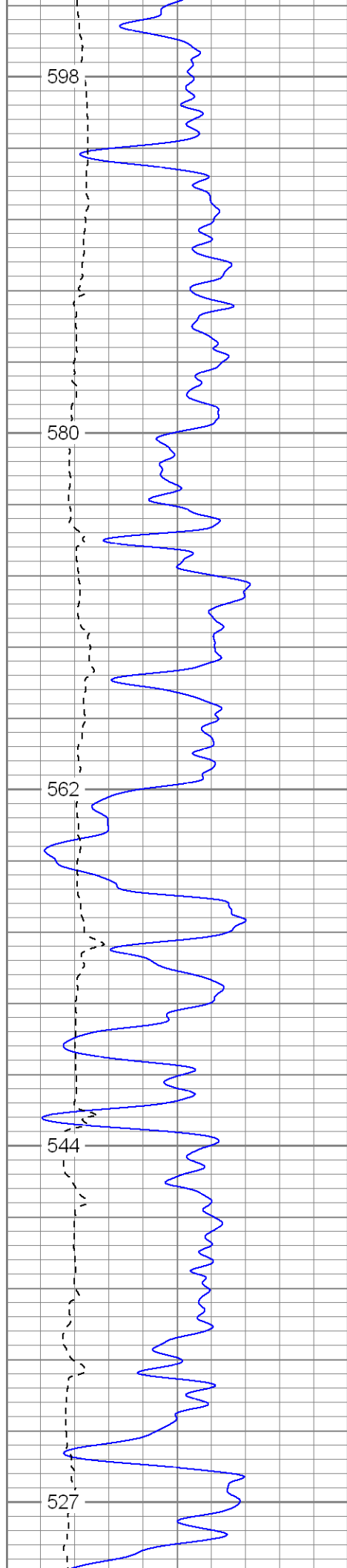
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

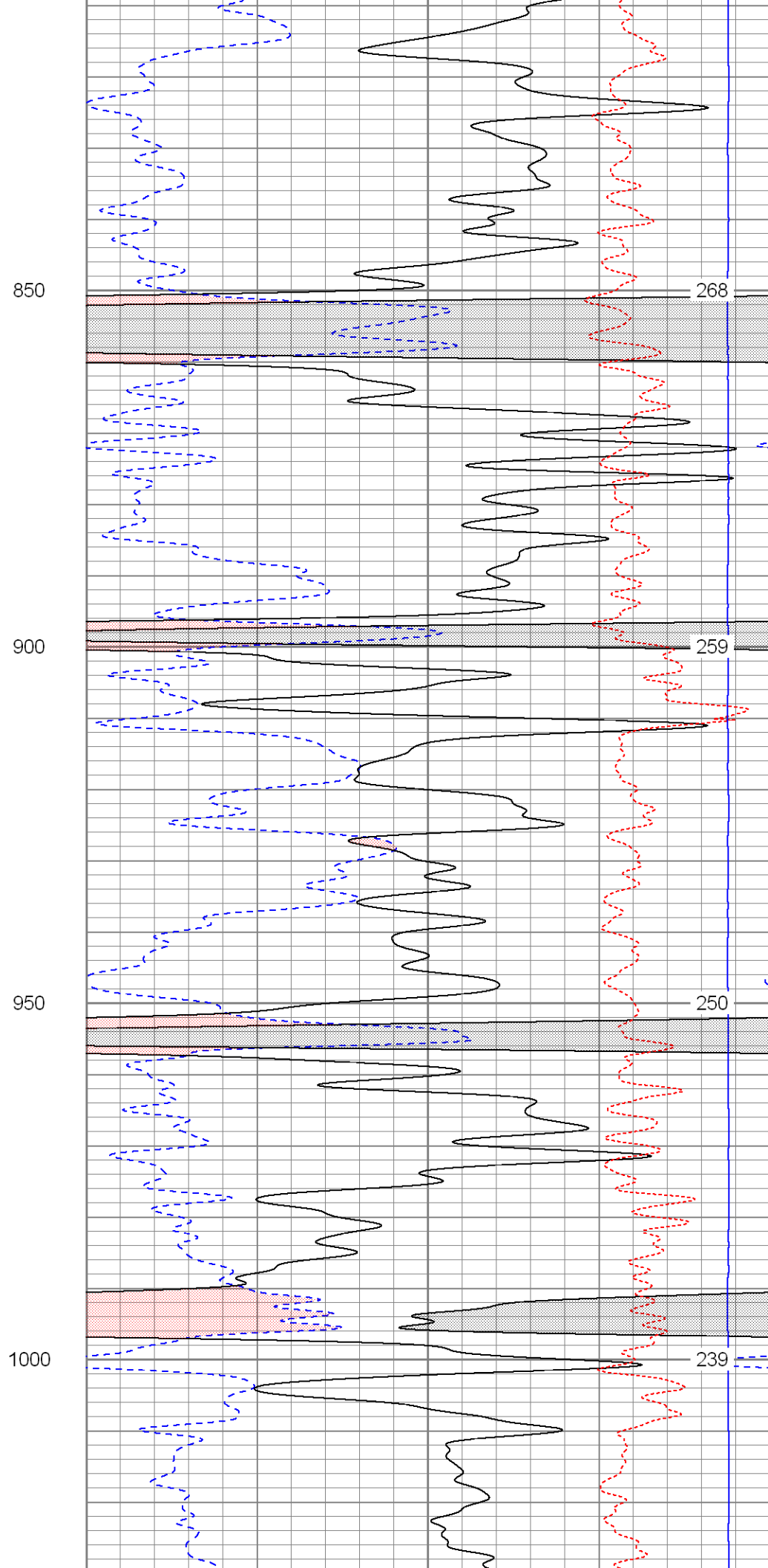
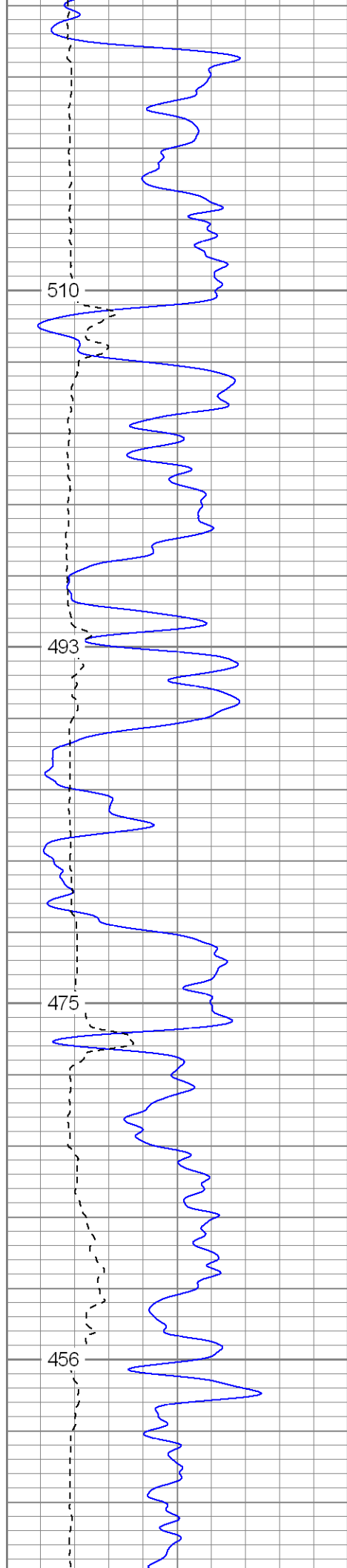
30	NPOR (pu)	-10
30	DPOR (pu)	-10

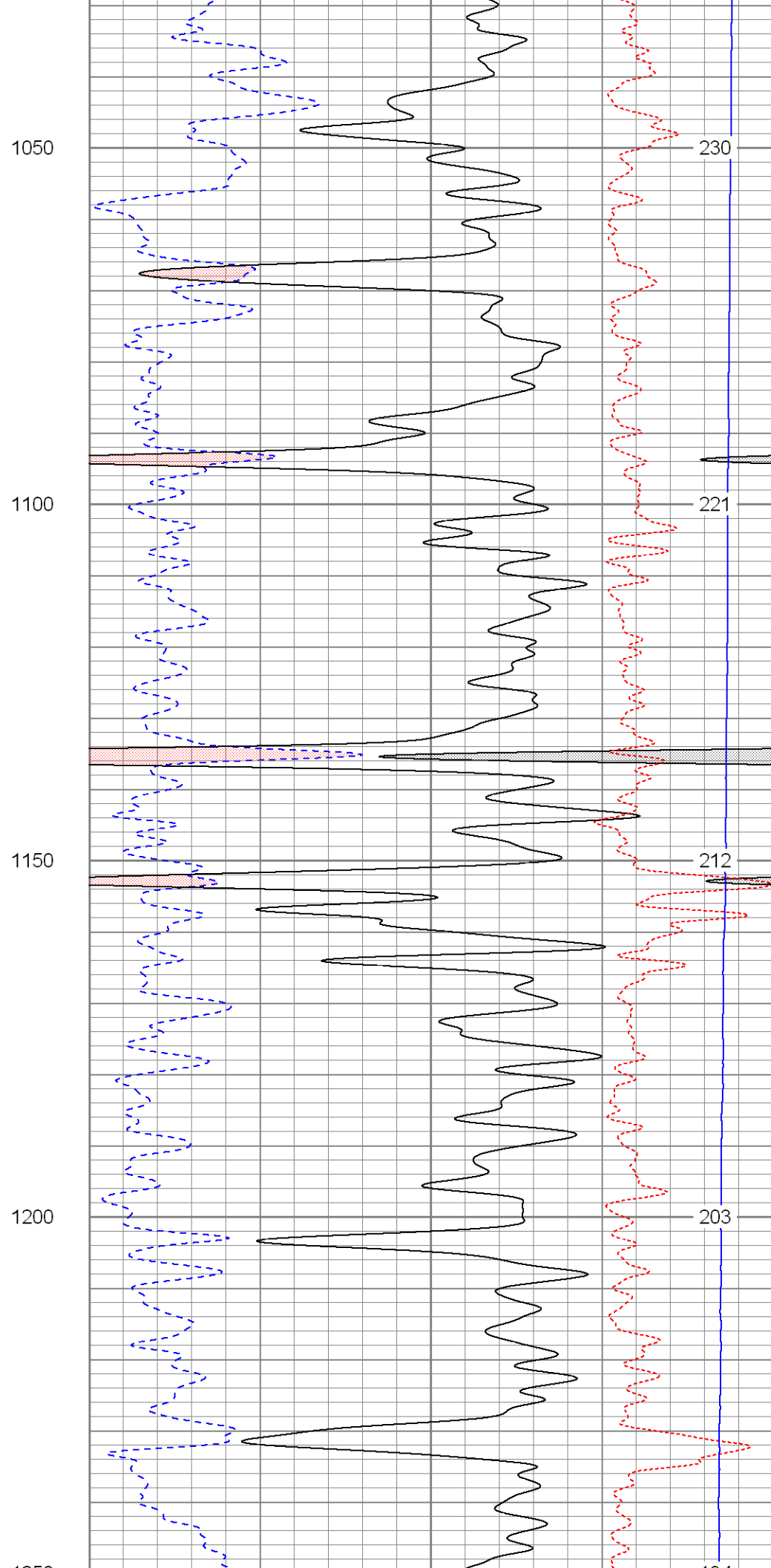
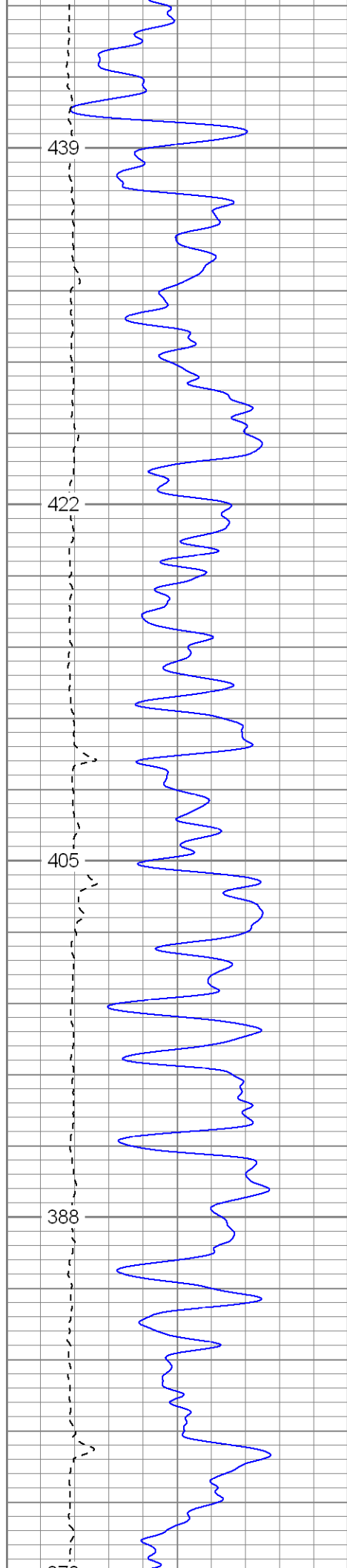
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0

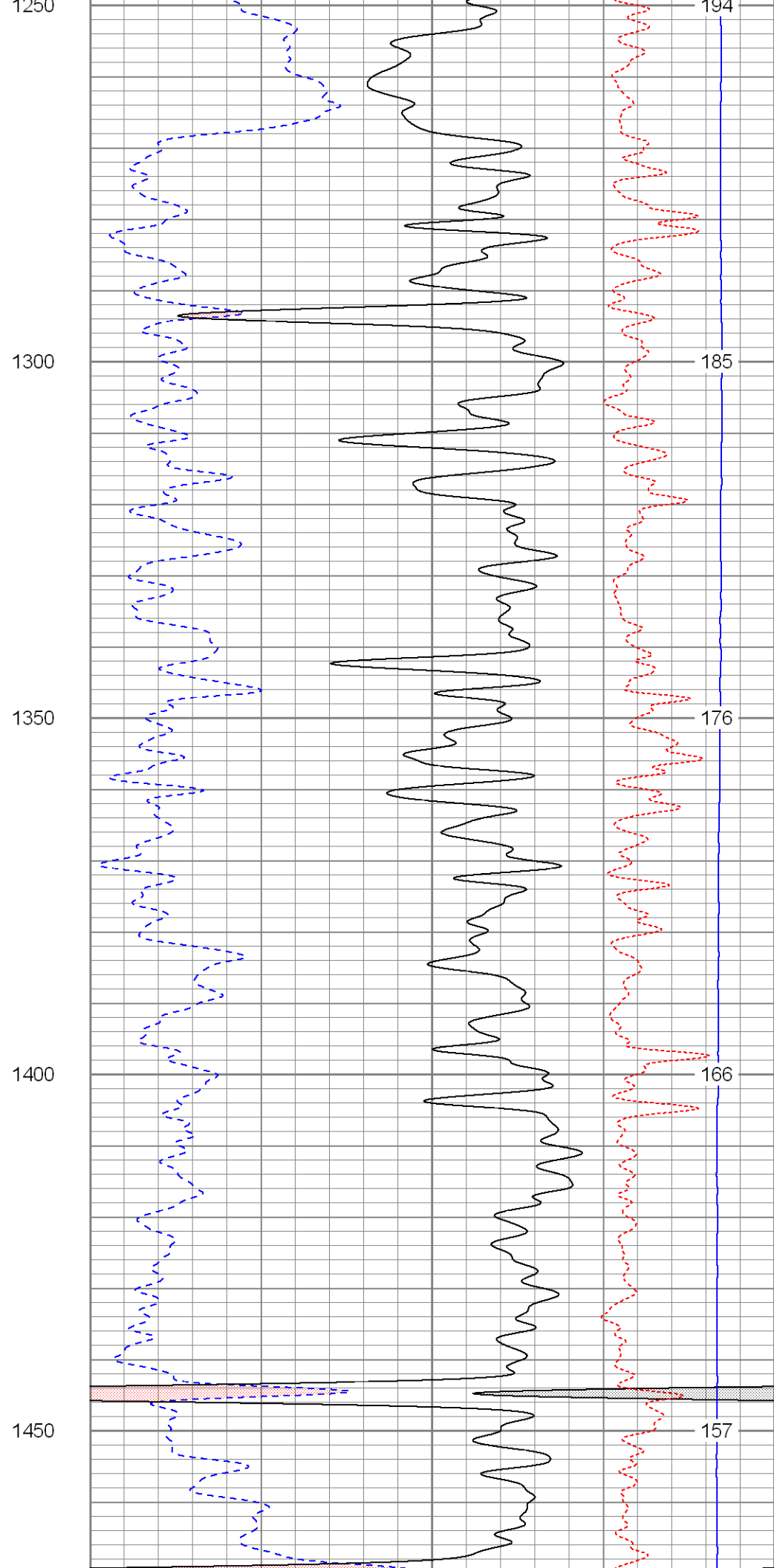
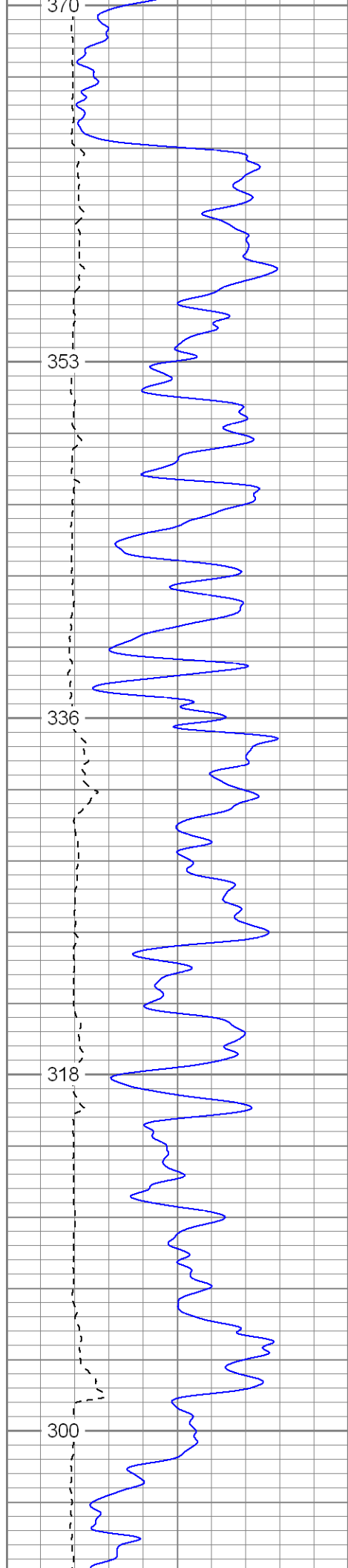
ABHV (ft3)

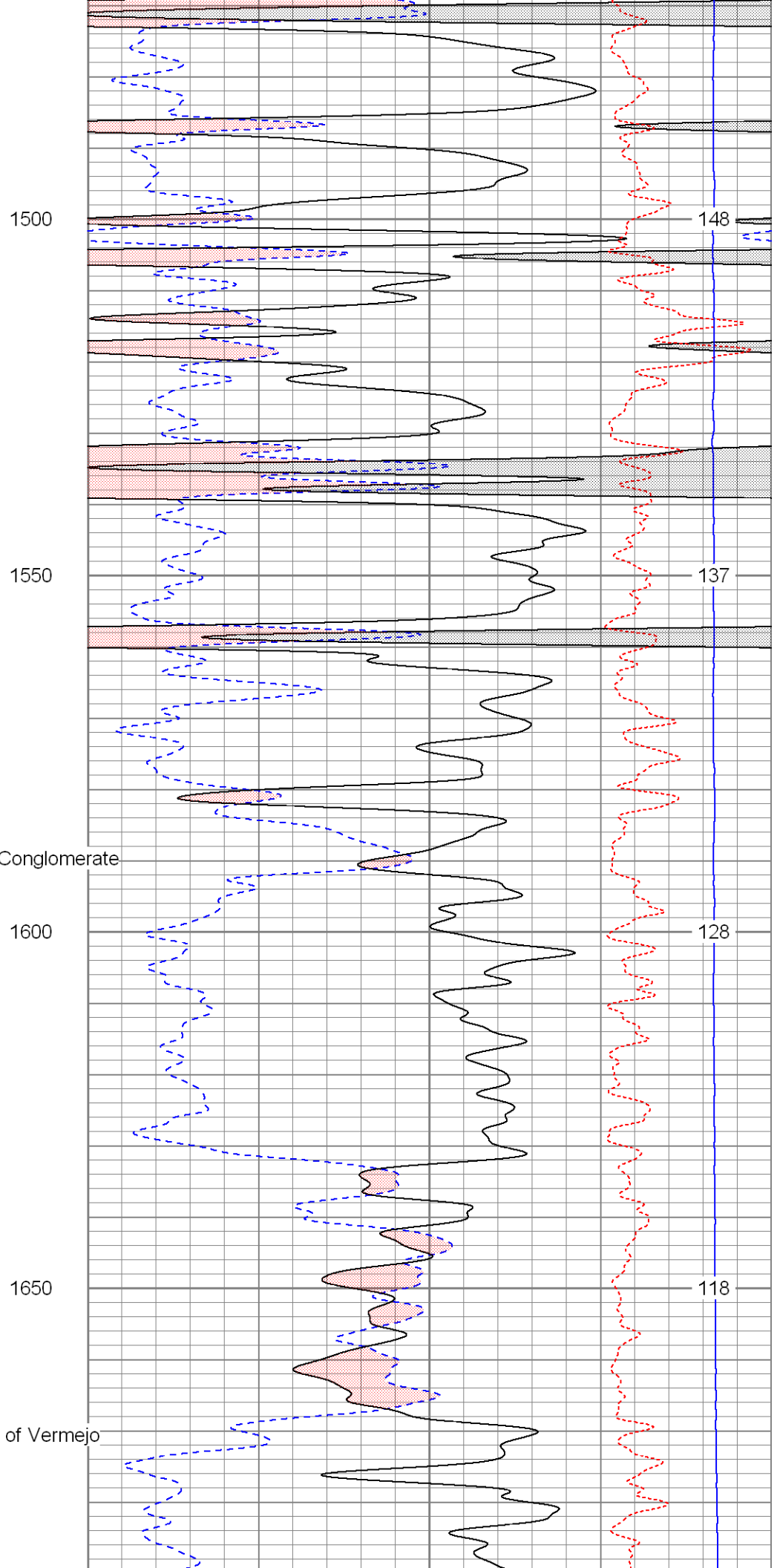
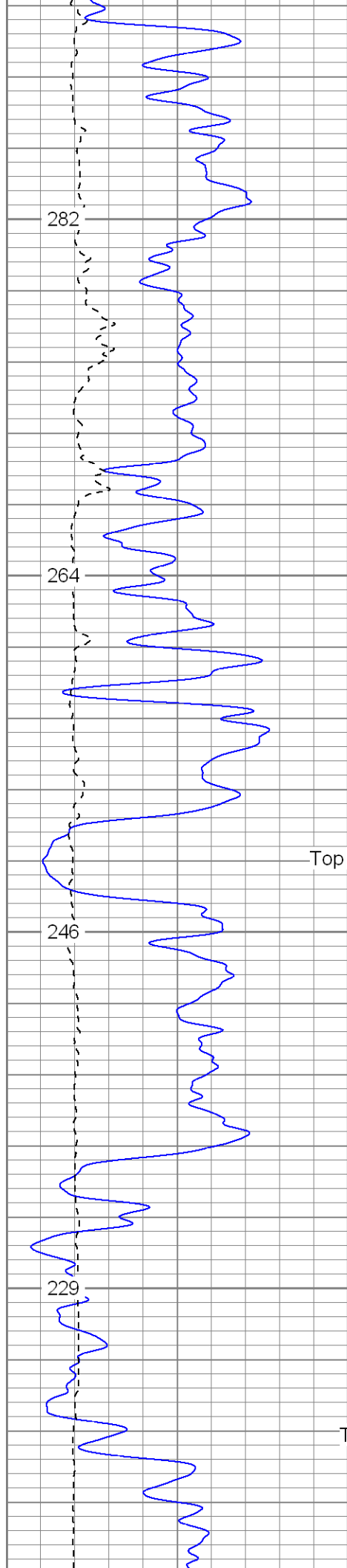


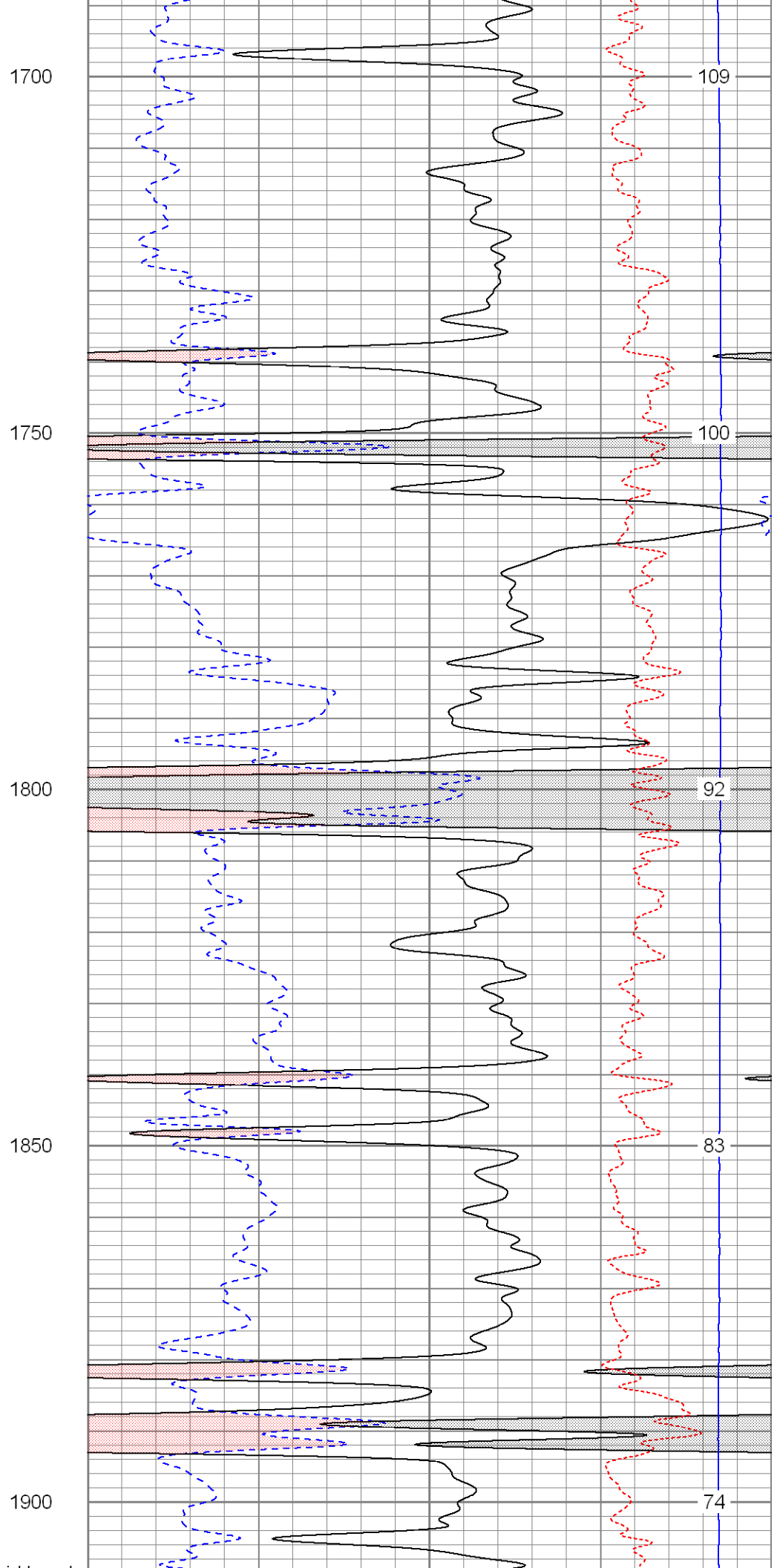
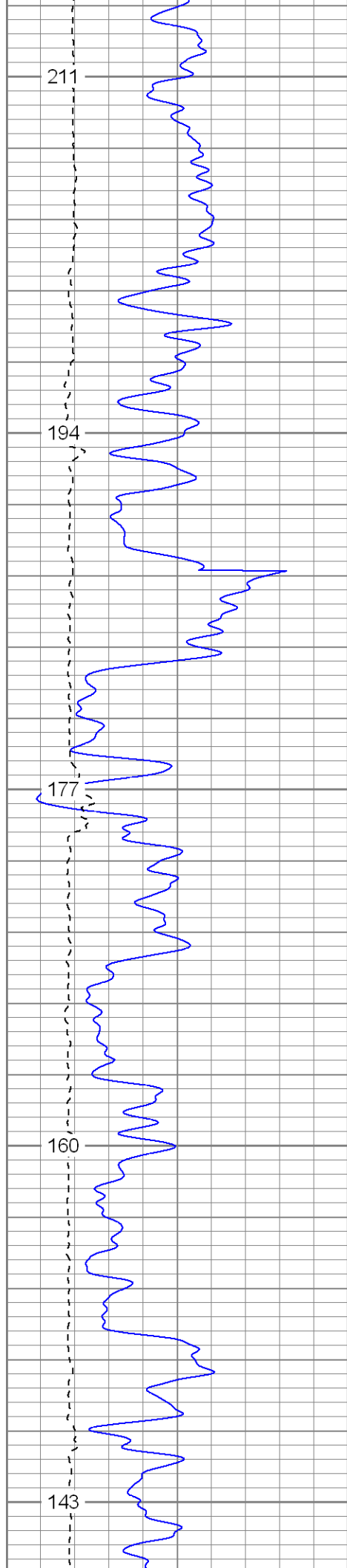




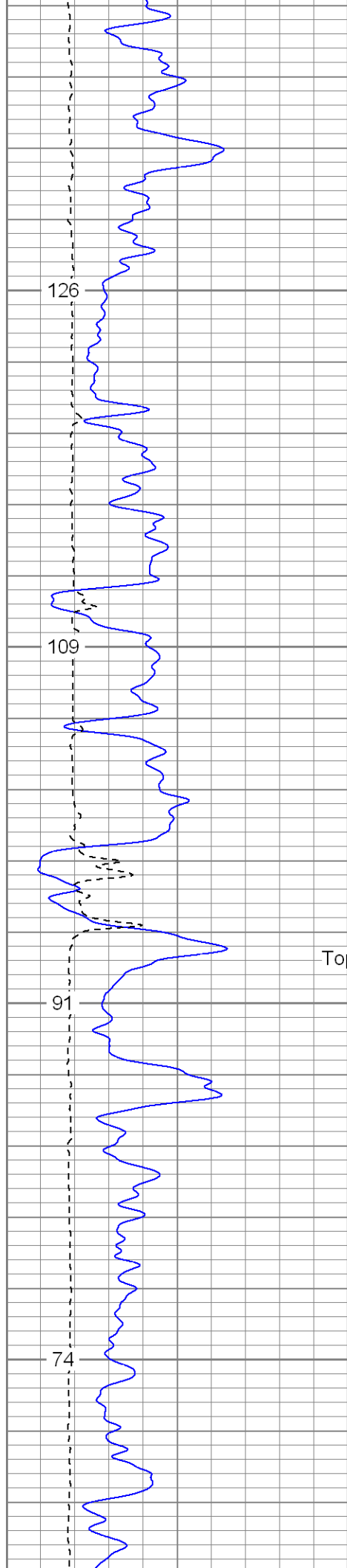








Fluid Level



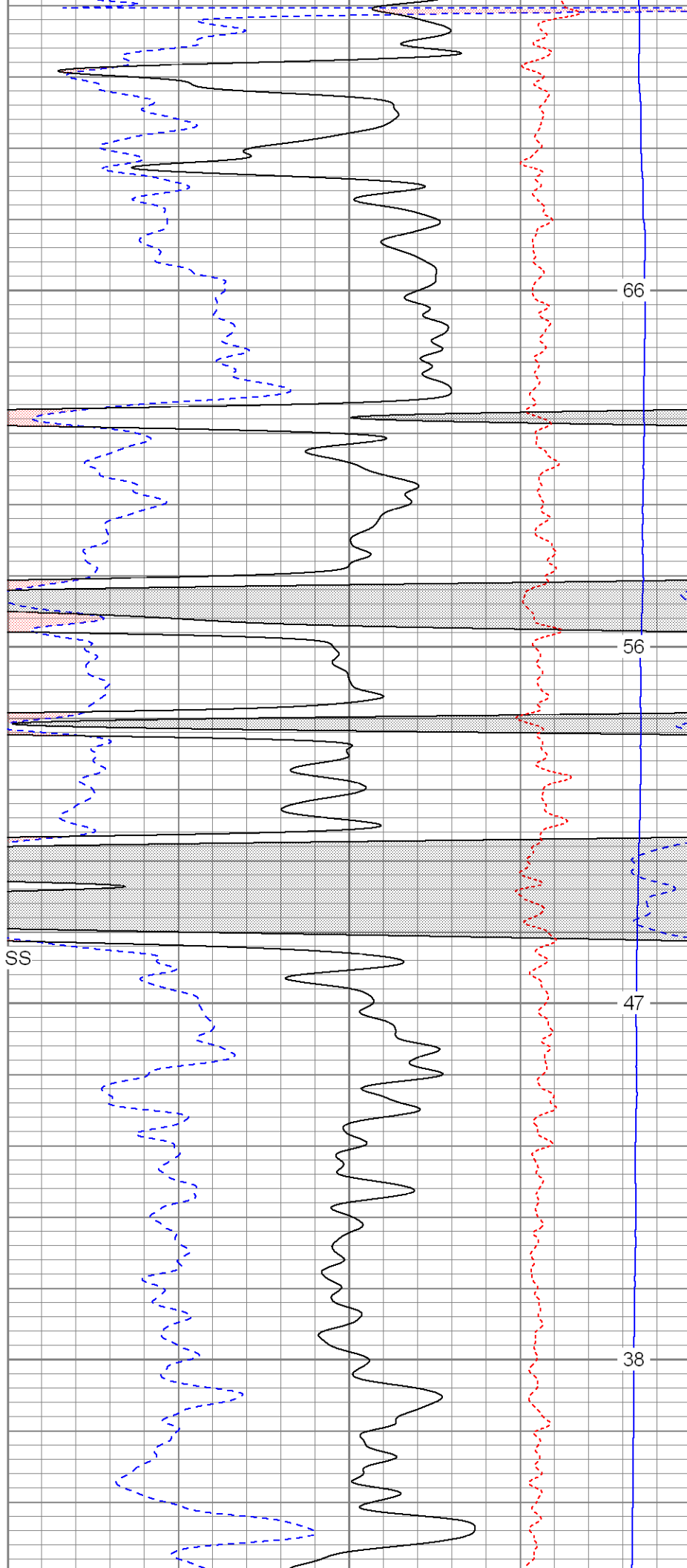
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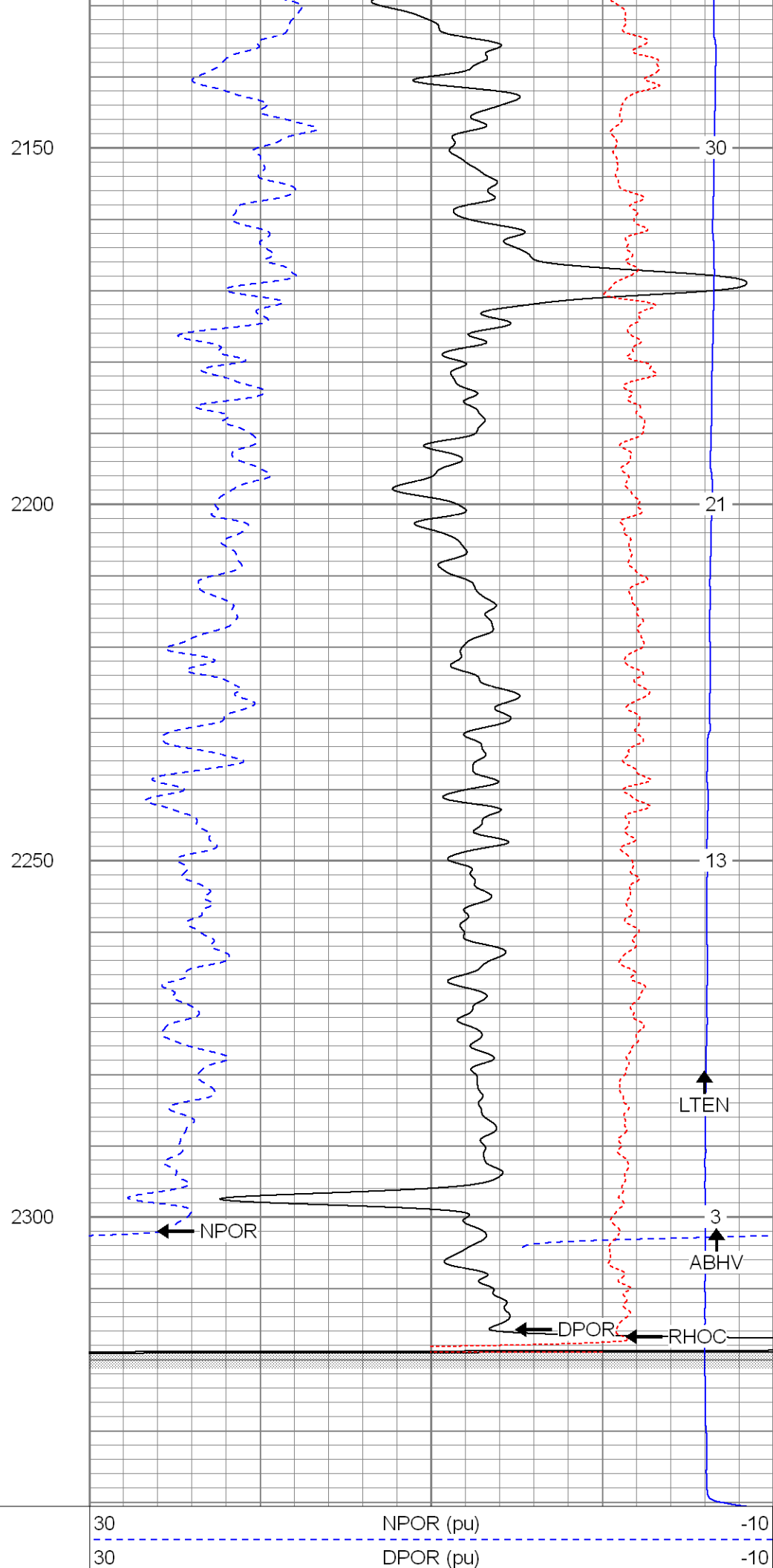
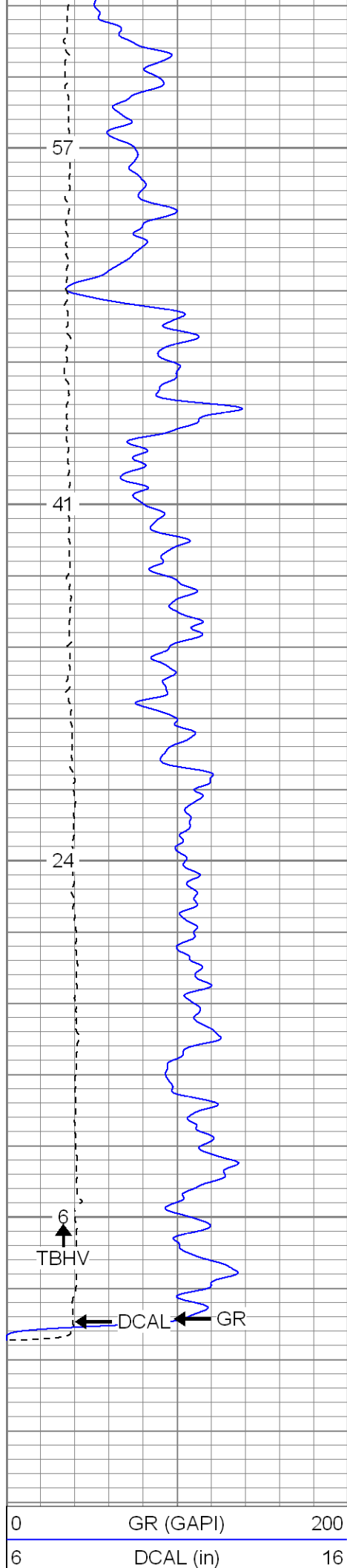
2000

Top of Trinidad SS

2050

2100





TBHV (ft3)

-0.5 RHOC (g/cc) 0.5

7000 LTEN (lb) 0

ABHV (ft3)



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Repeat Pass

Database File: xtoge3307.db
 Dataset Pathname: pass1.1
 Presentation Format: cdnl
 Dataset Creation: Mon Jul 14 20:13:06 2008 by Calc Open-Cased 071220
 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)

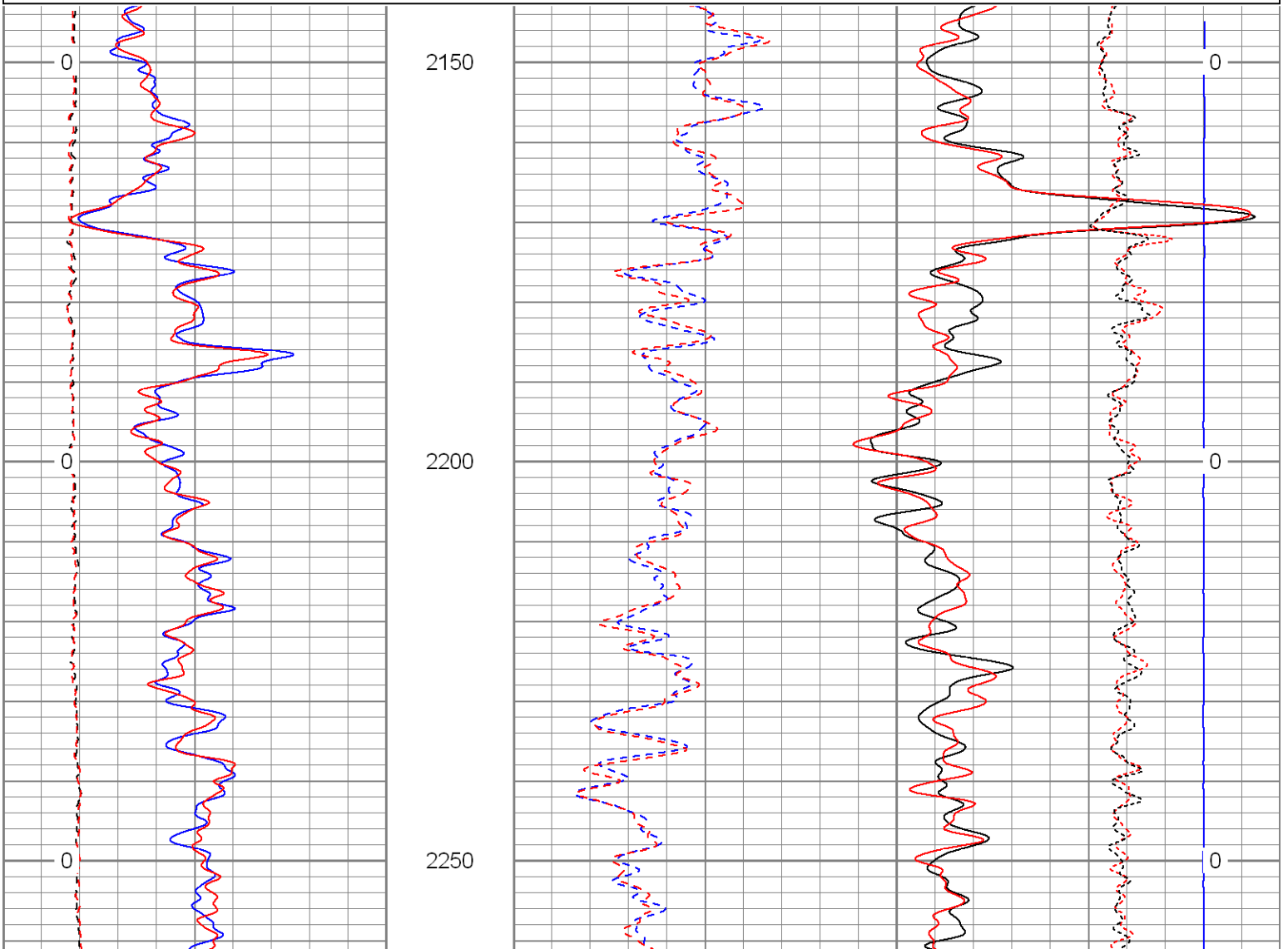
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30	DPOR (pu)	-10
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30	DPOR-repeat (pu)	-10

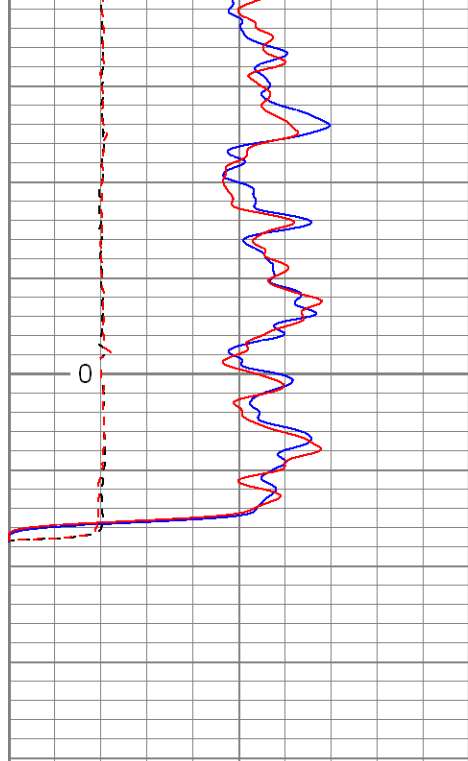
-0.5 RHOC (g/cc) 0.5

7000 LTEN (lb) 0

-0.5 RHOC-repeat (g/cc) 0.5

ABHV (ft3)

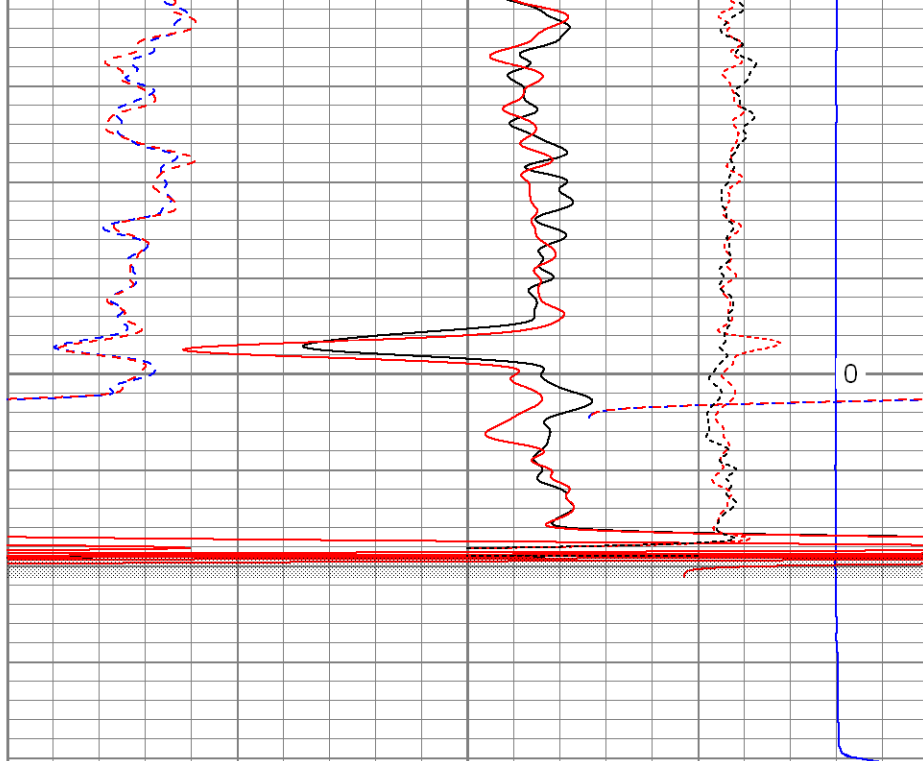




0	GR (GAPI)	200
6	DCAL (in)	16
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16

TBHV (ft3)

2300



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)



SUPERIOR

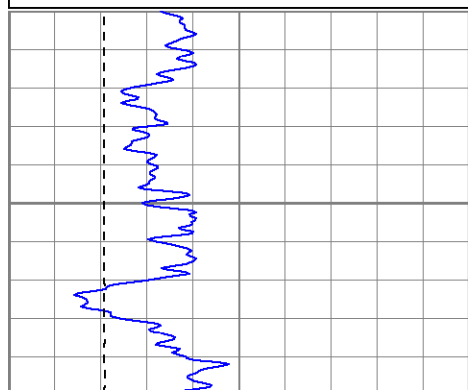
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High Resolution Pass

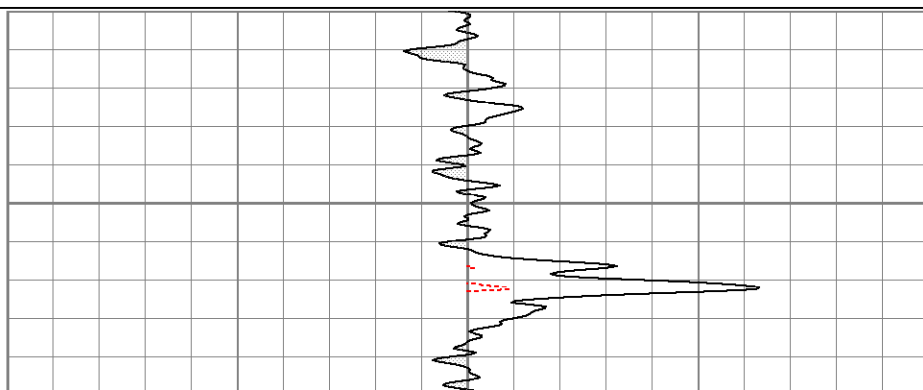
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Presentation Format: cdlhr
Dataset Creation: Tue Jul 15 10:17:45 2008 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:120

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6	DCAL (in)	16

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



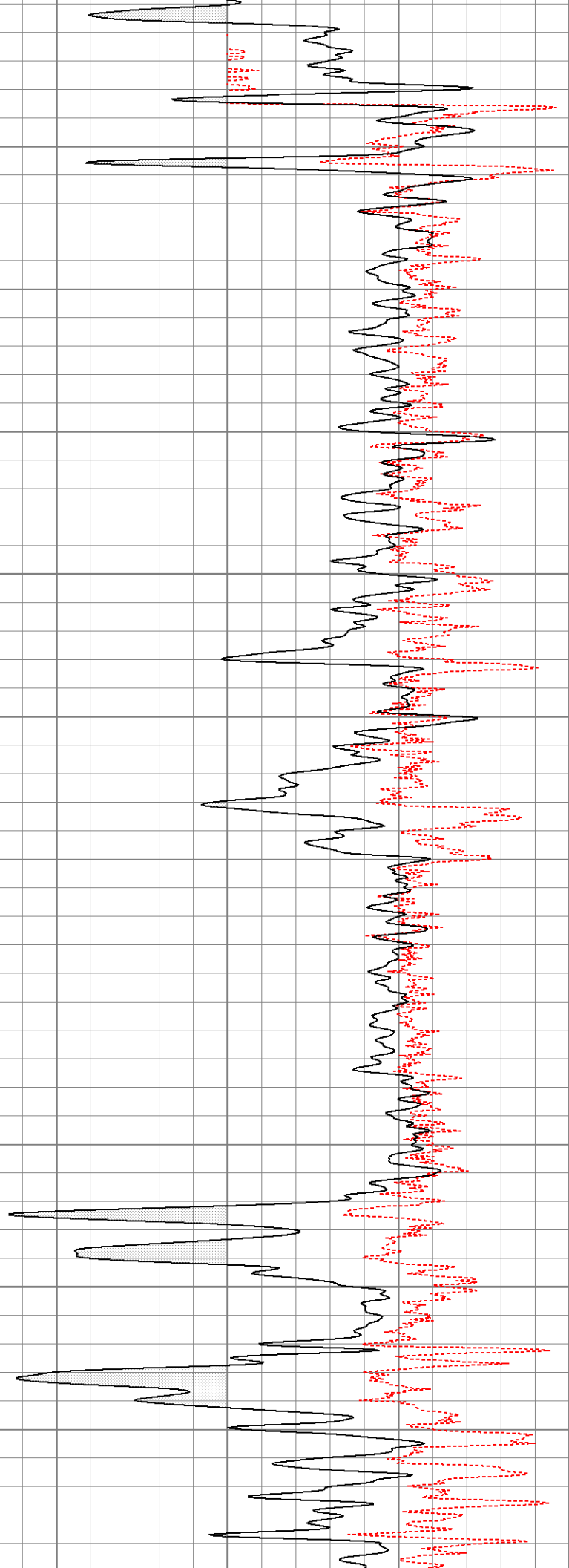
450



Surface Casing

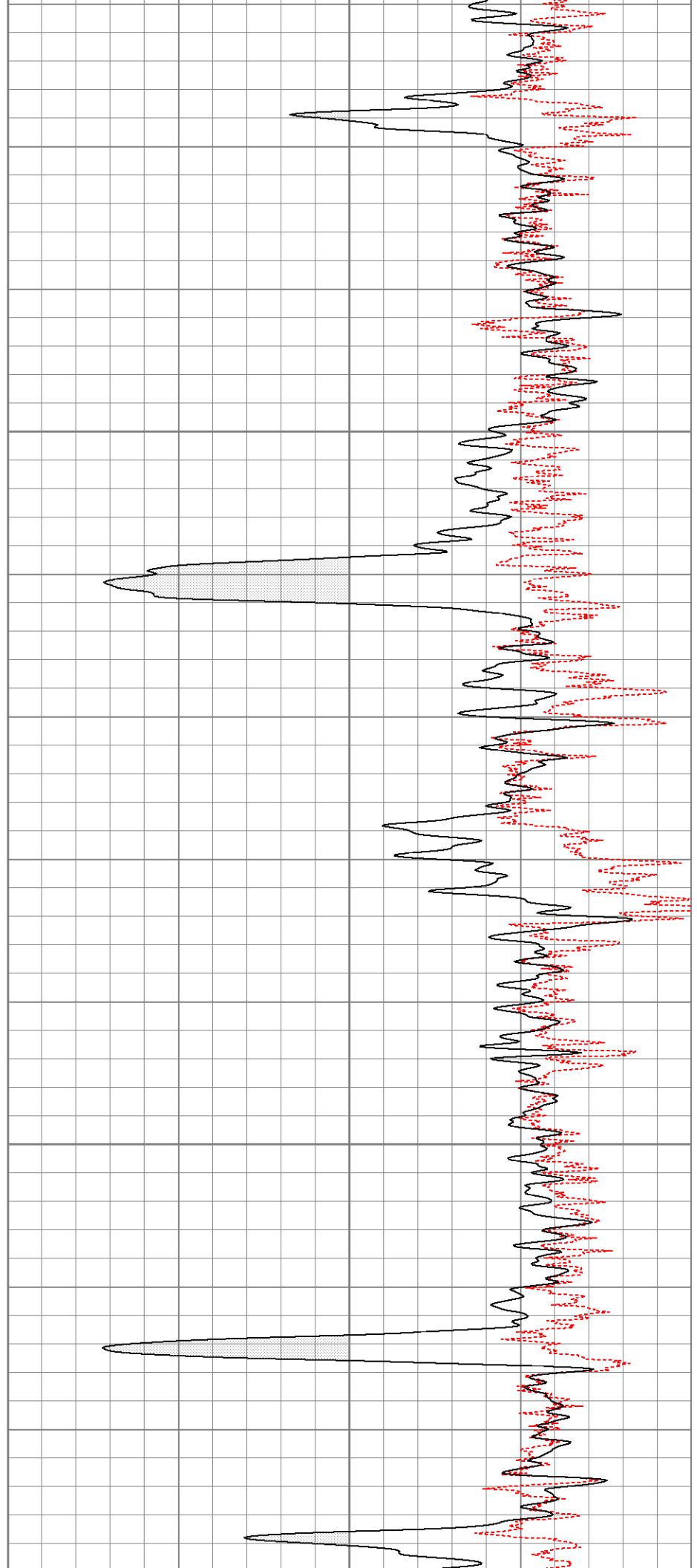
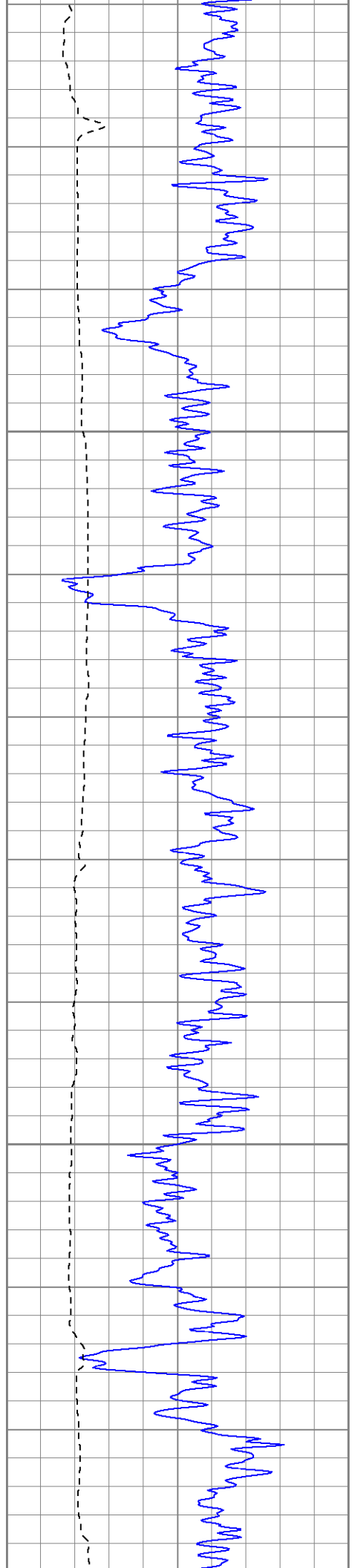
500

550



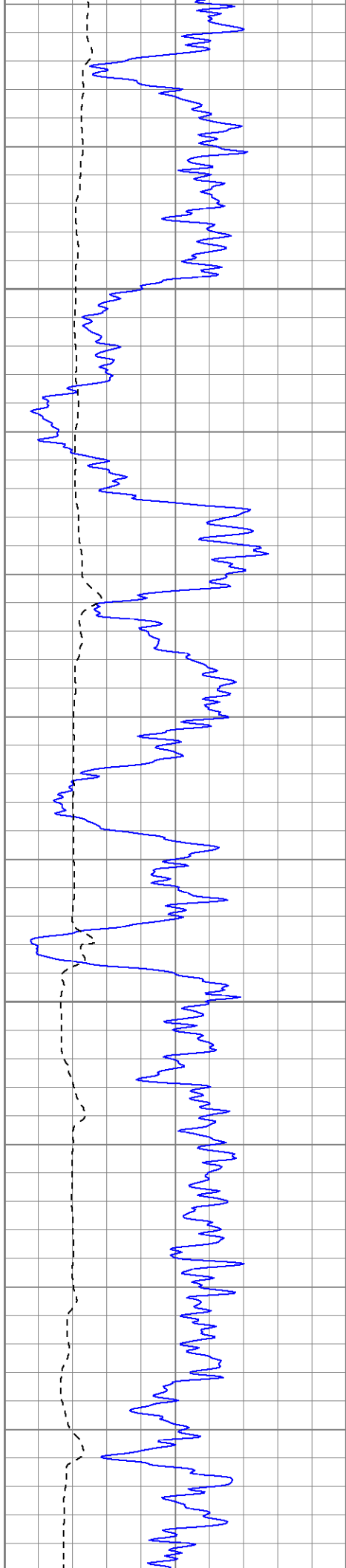
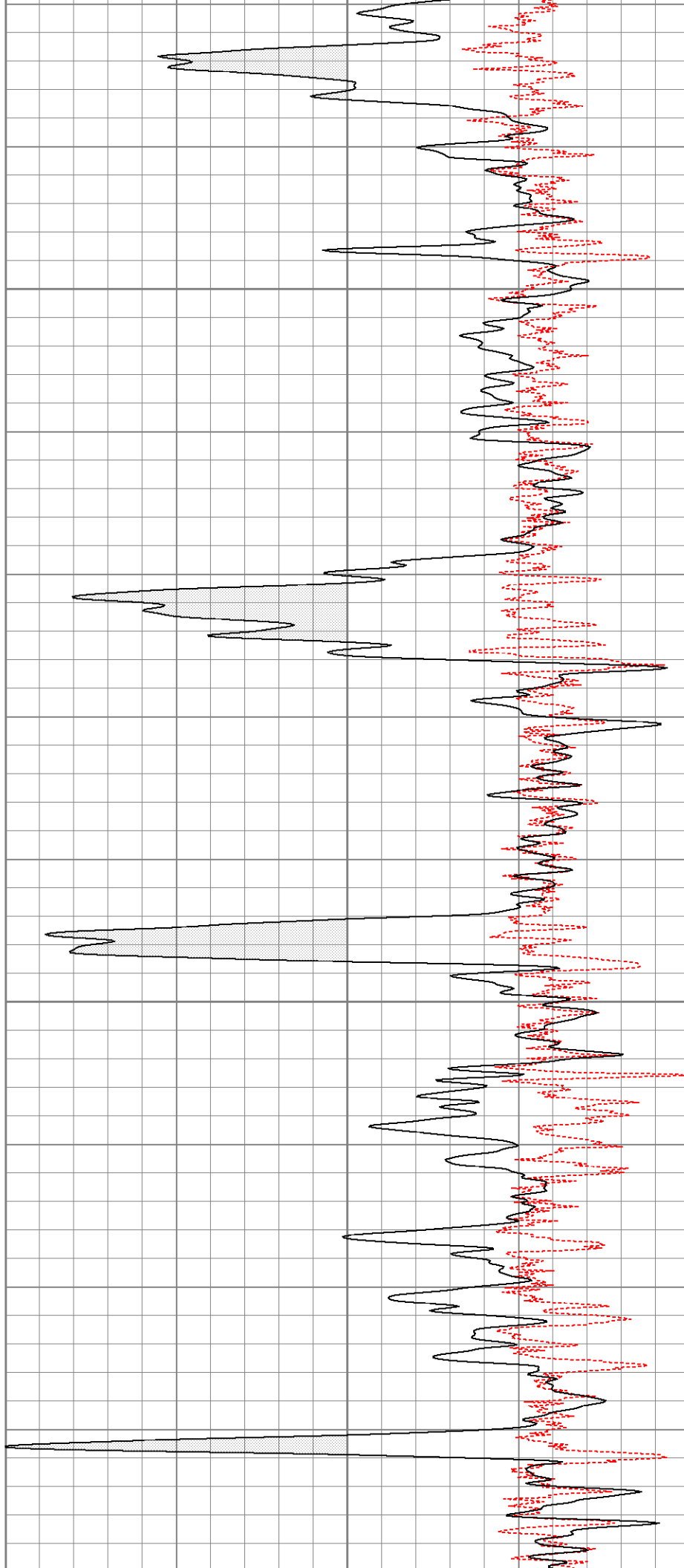
600

650



700

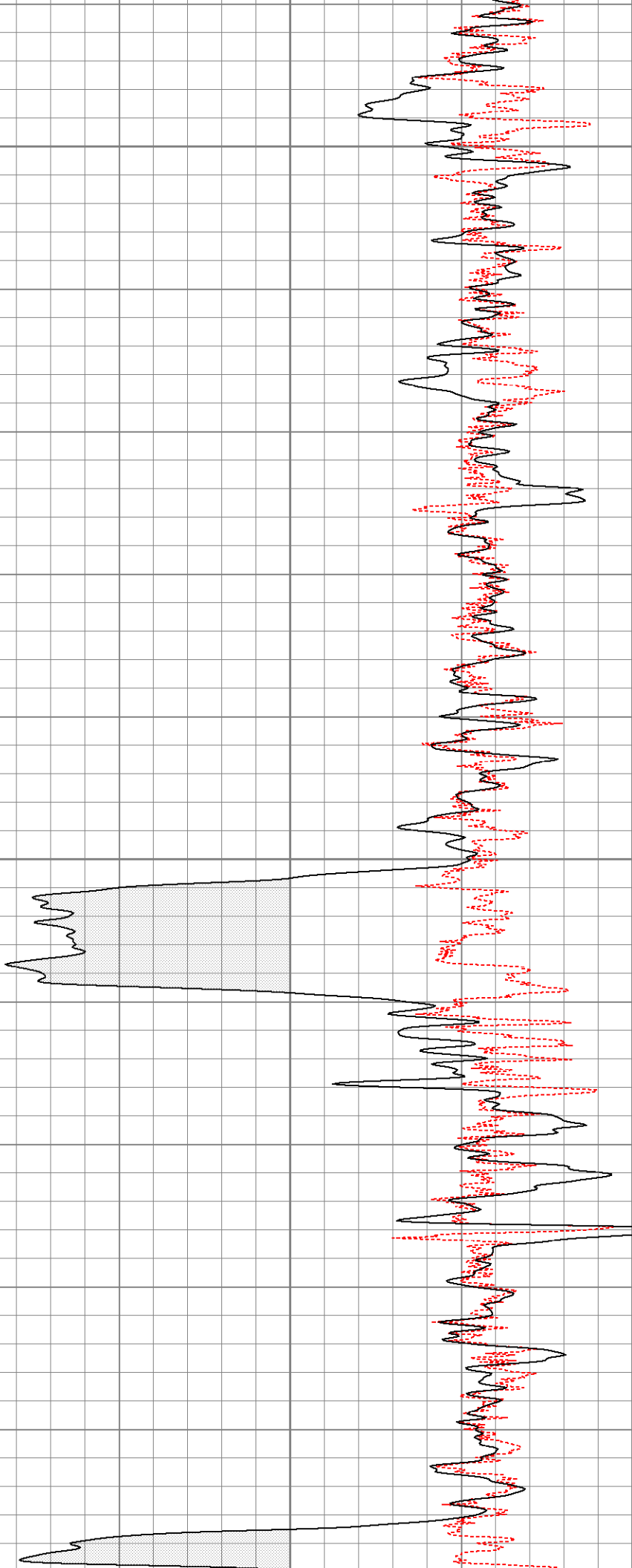
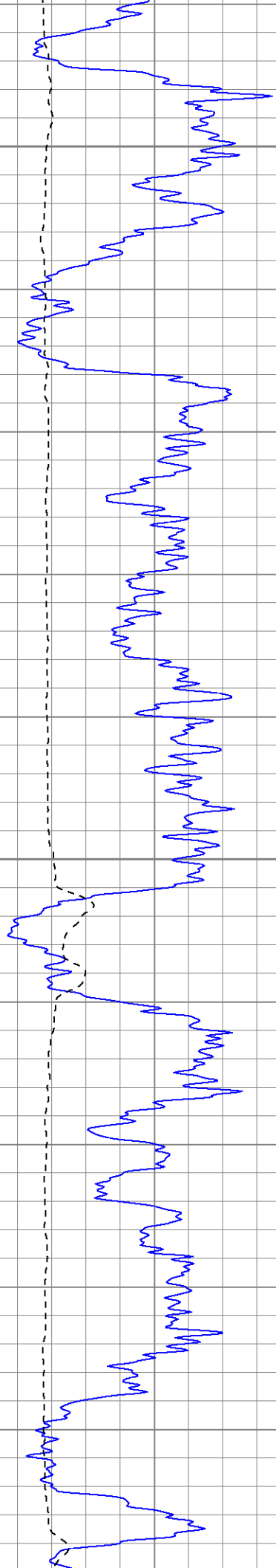
750



800

850

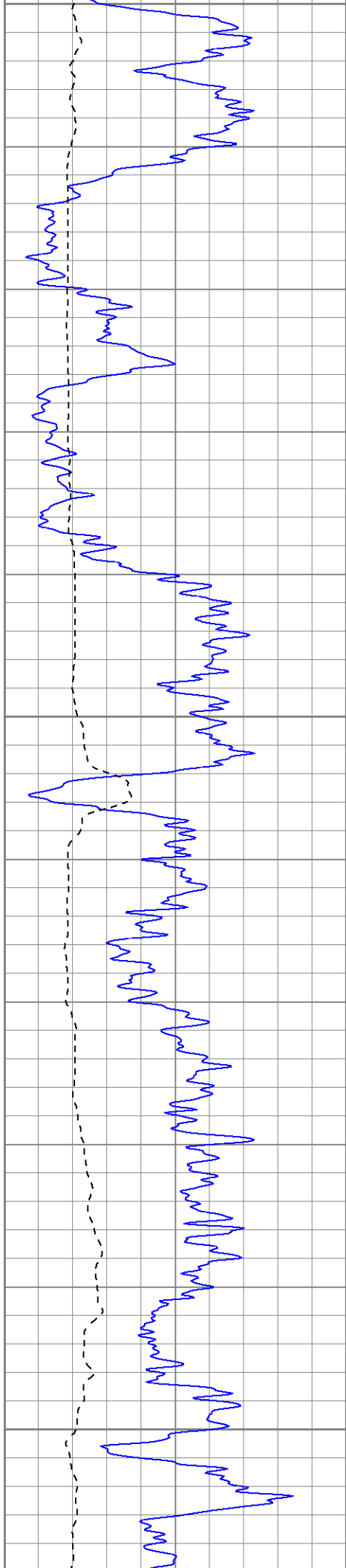
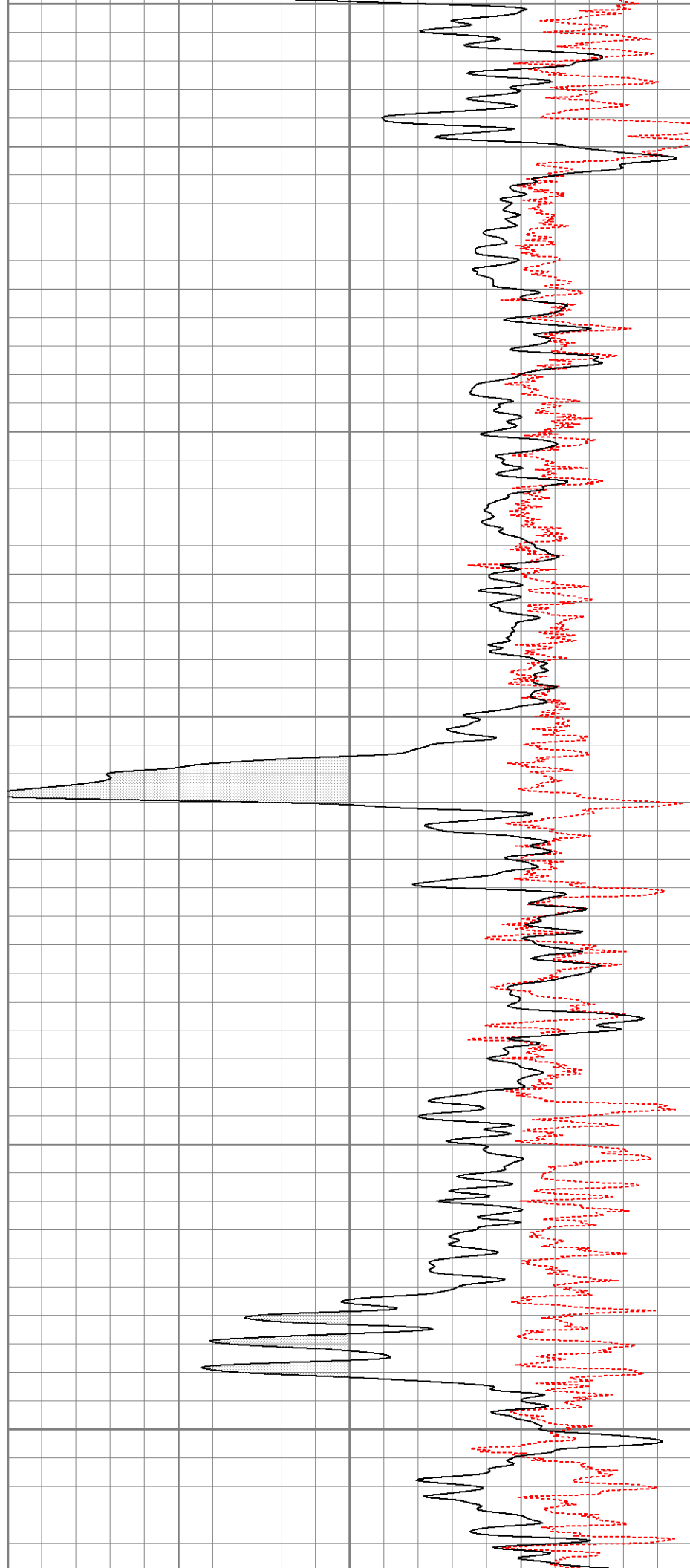
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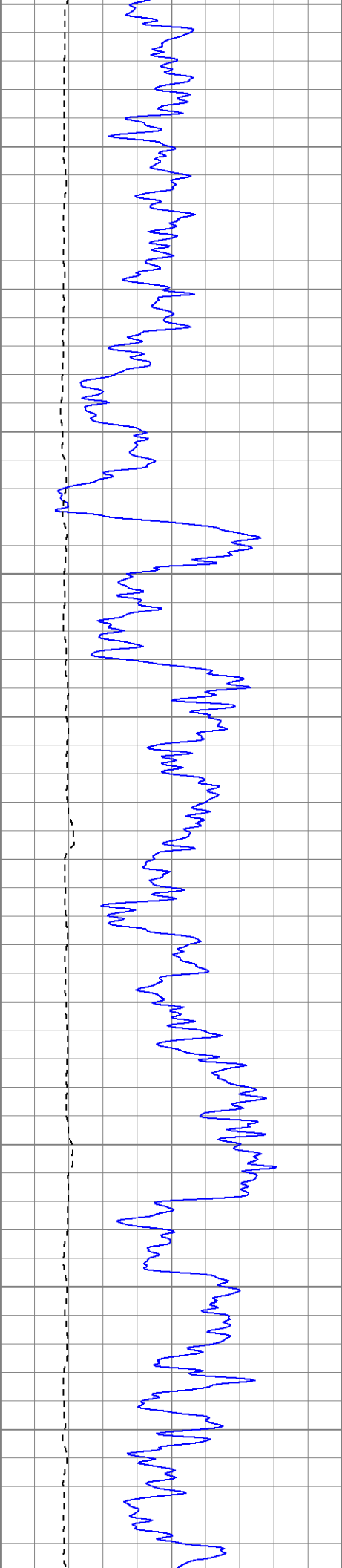


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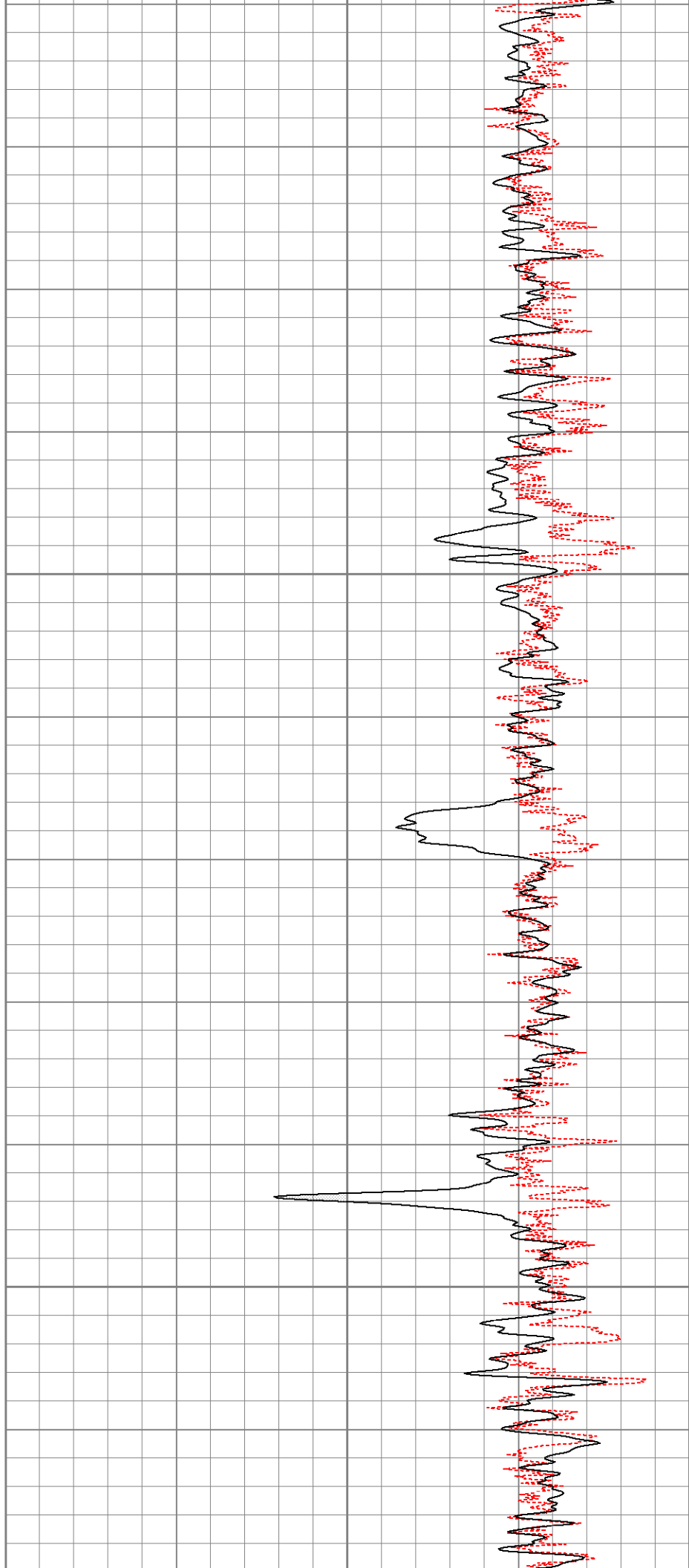
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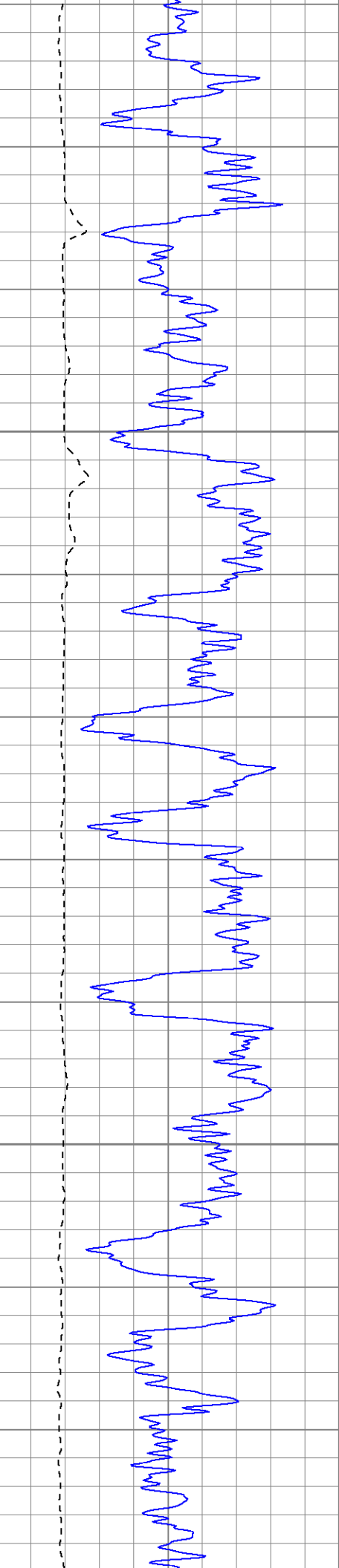




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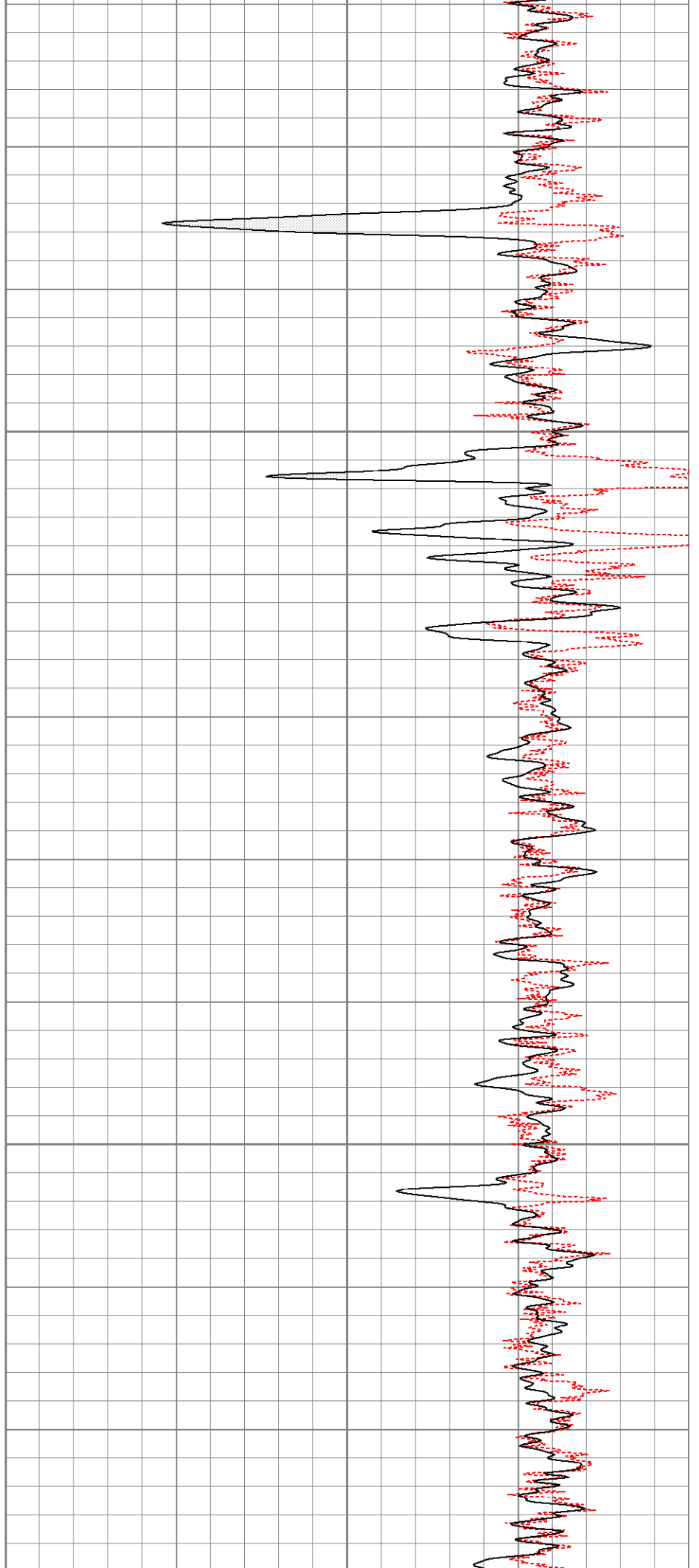
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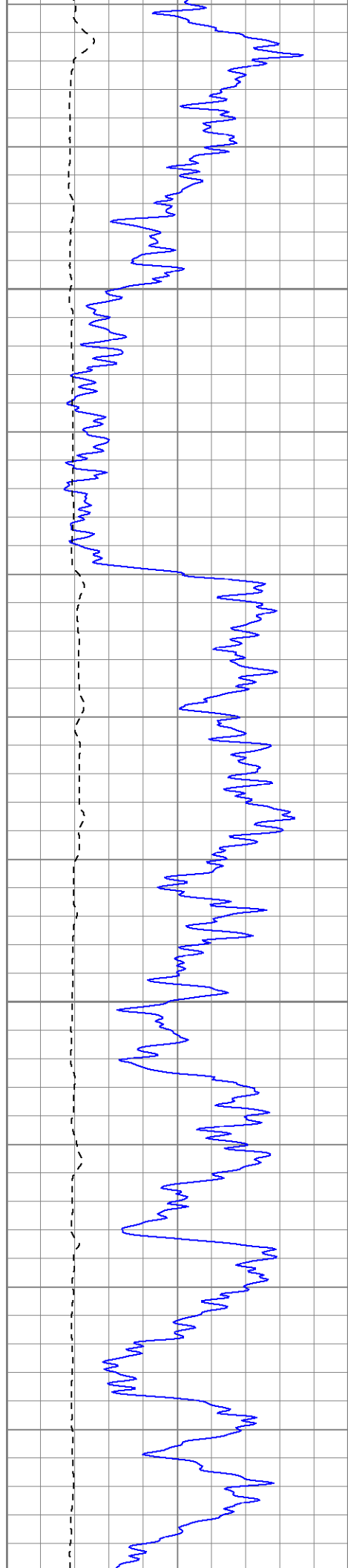




1150

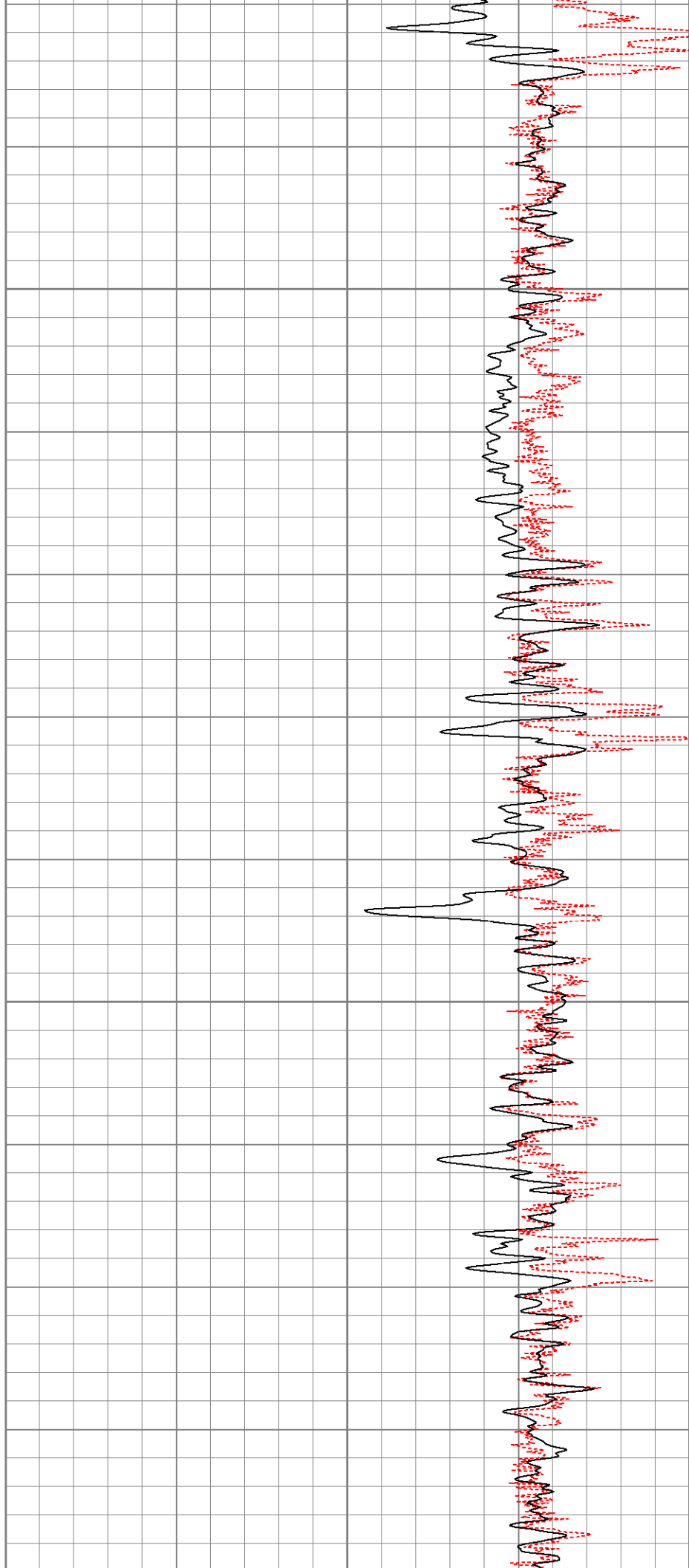
1200





1250

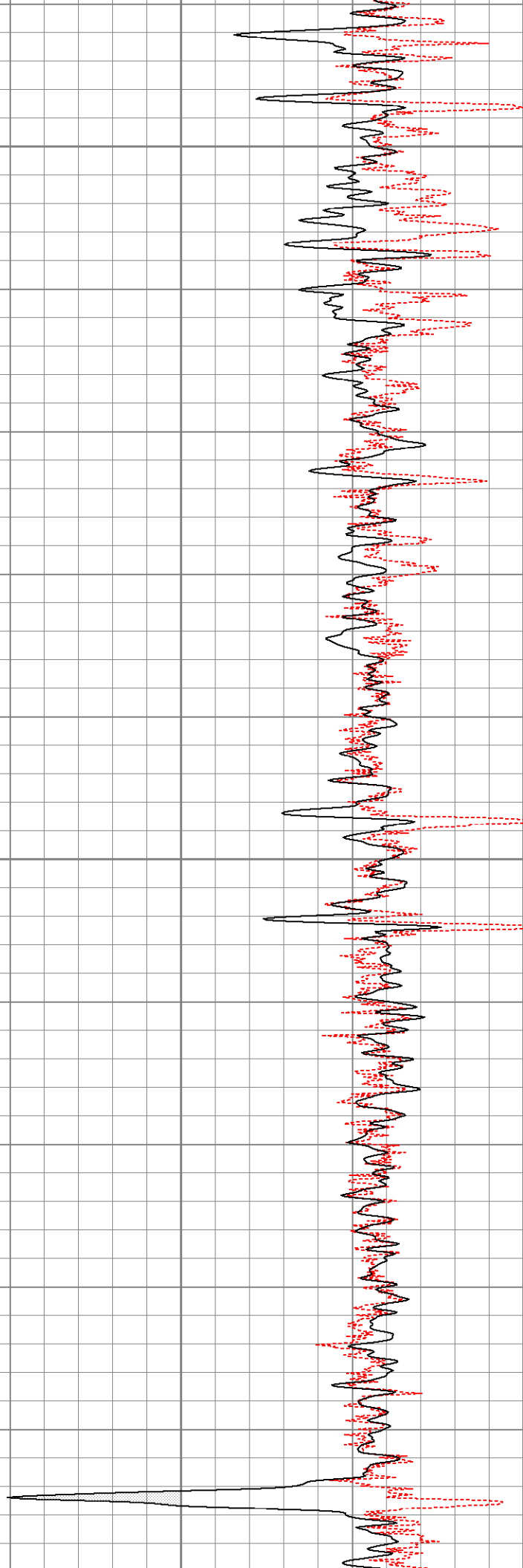
1300



1350

1400

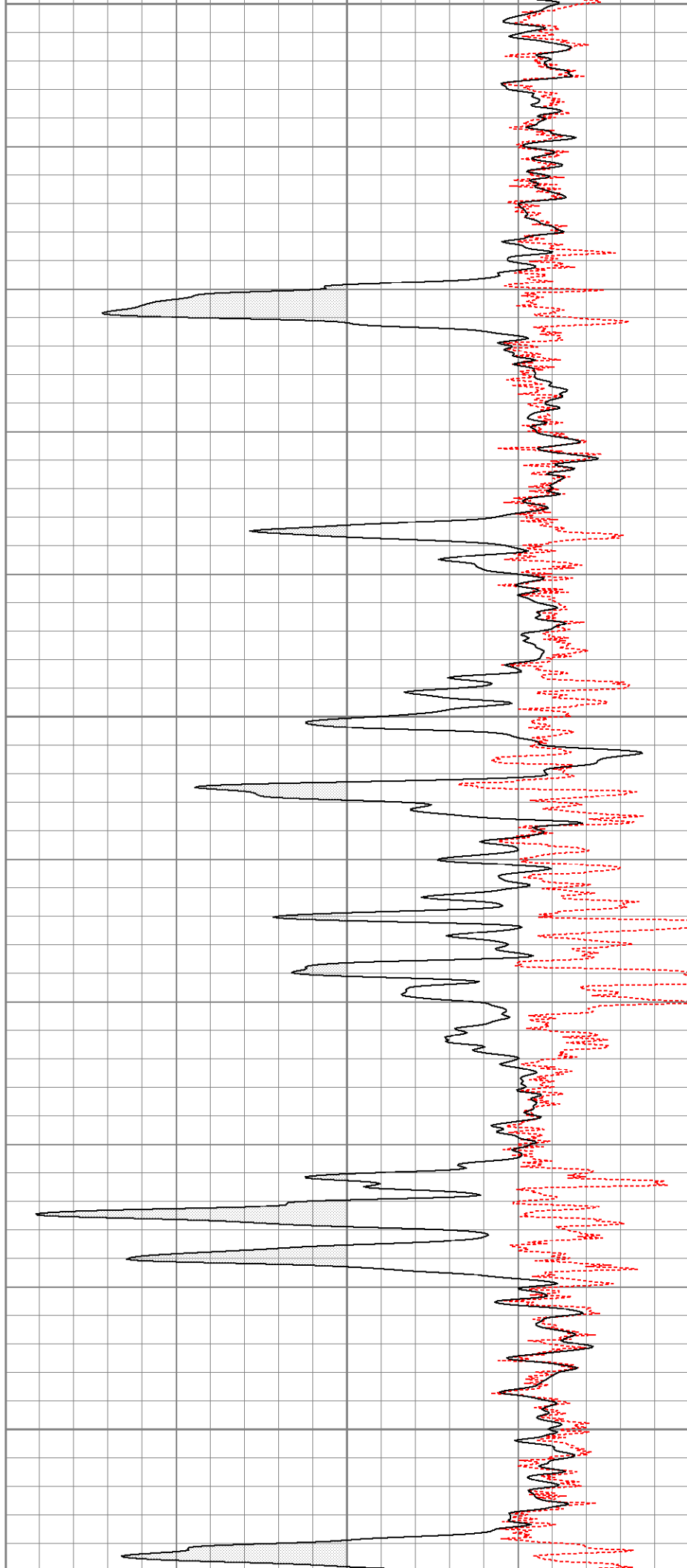
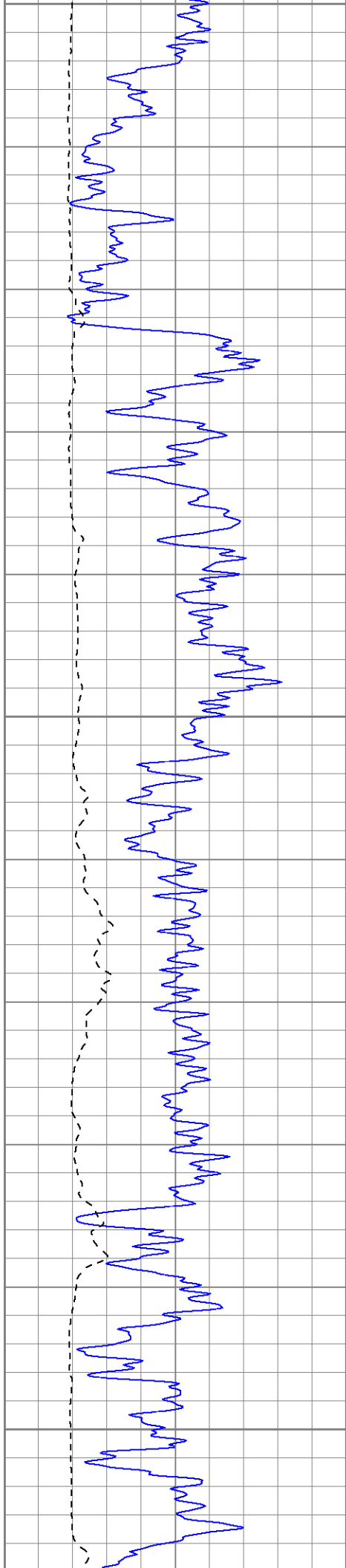
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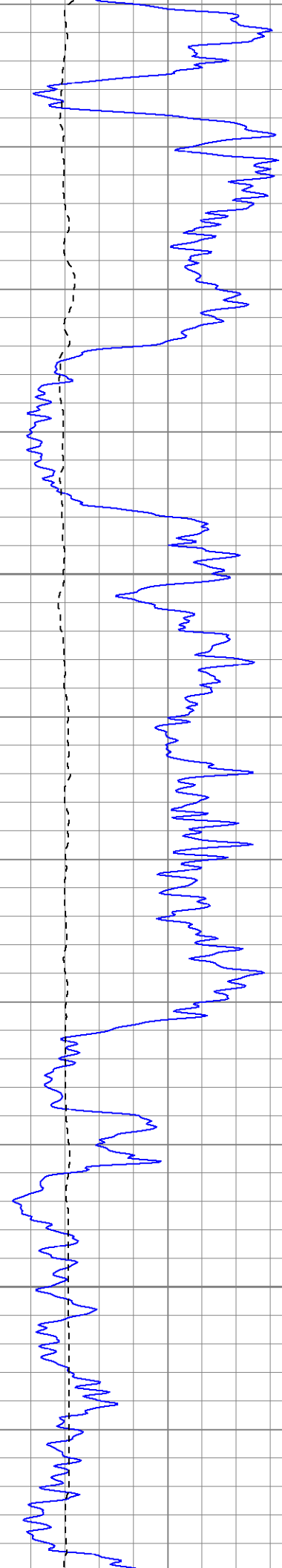


1450

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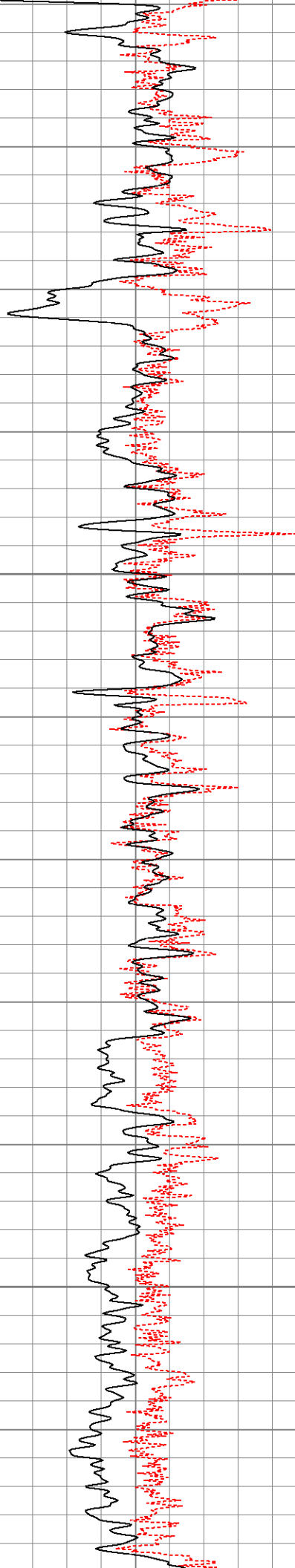
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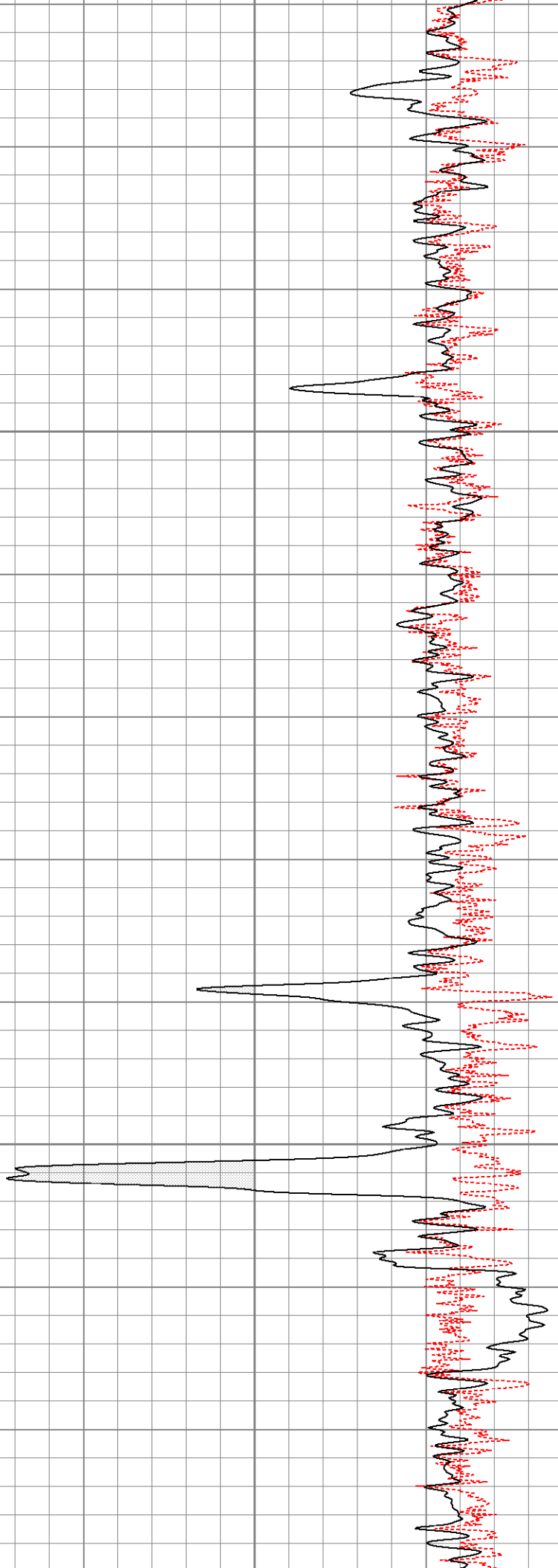
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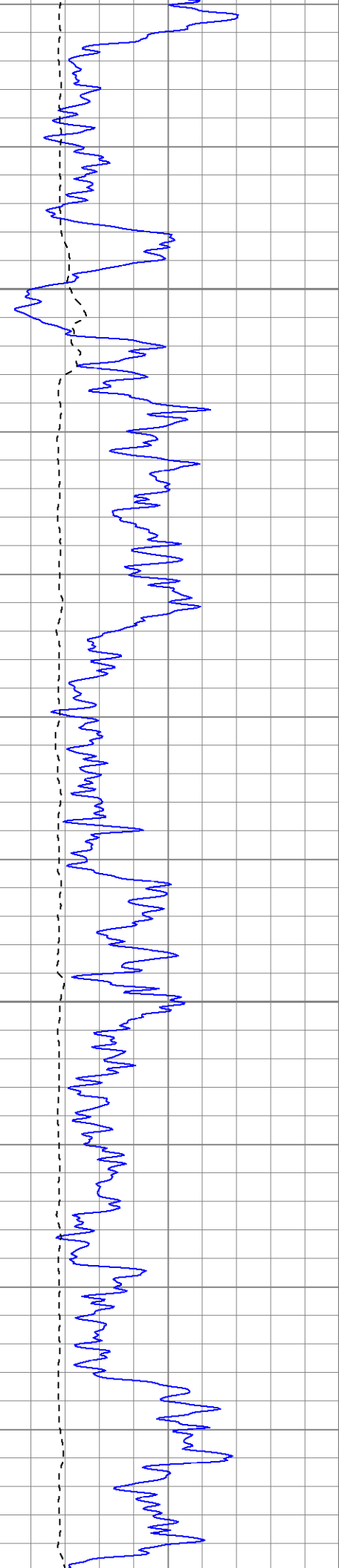
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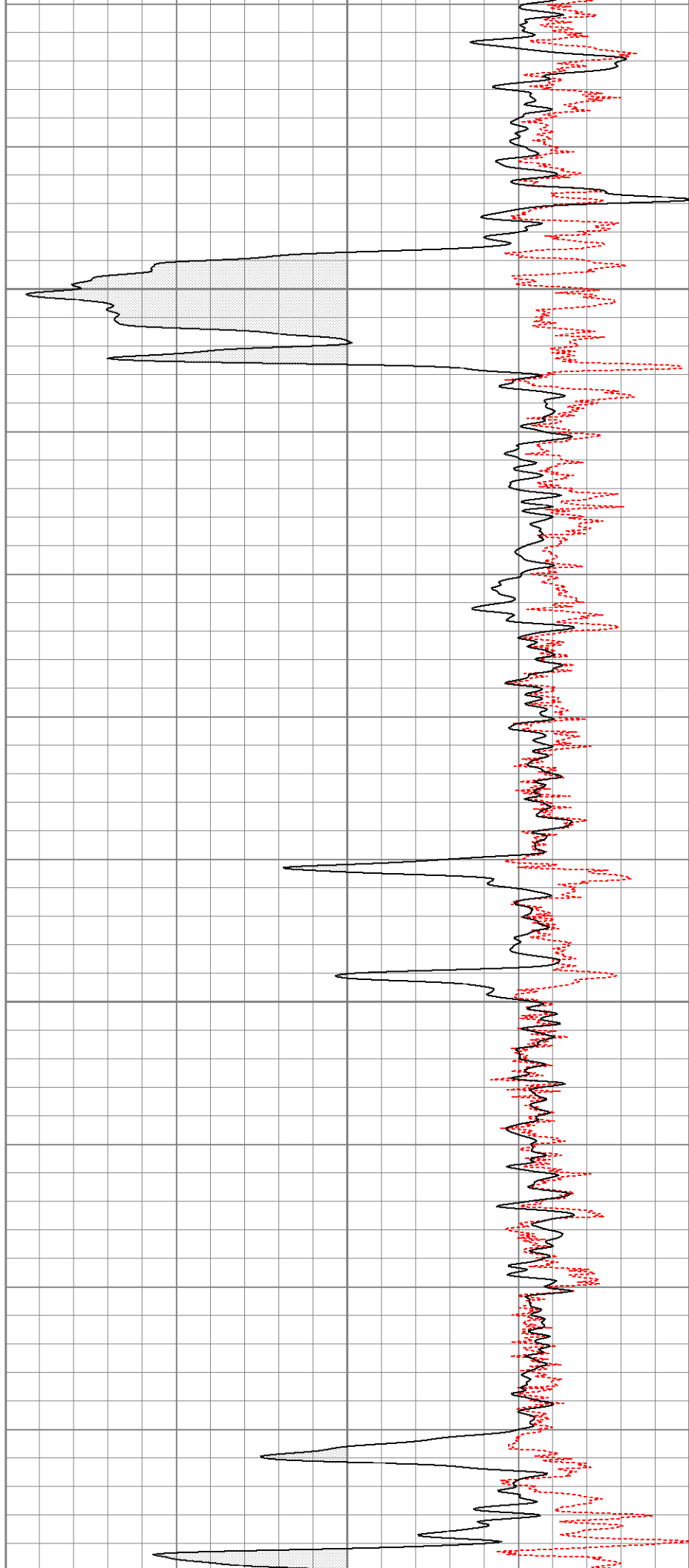
1750





1800

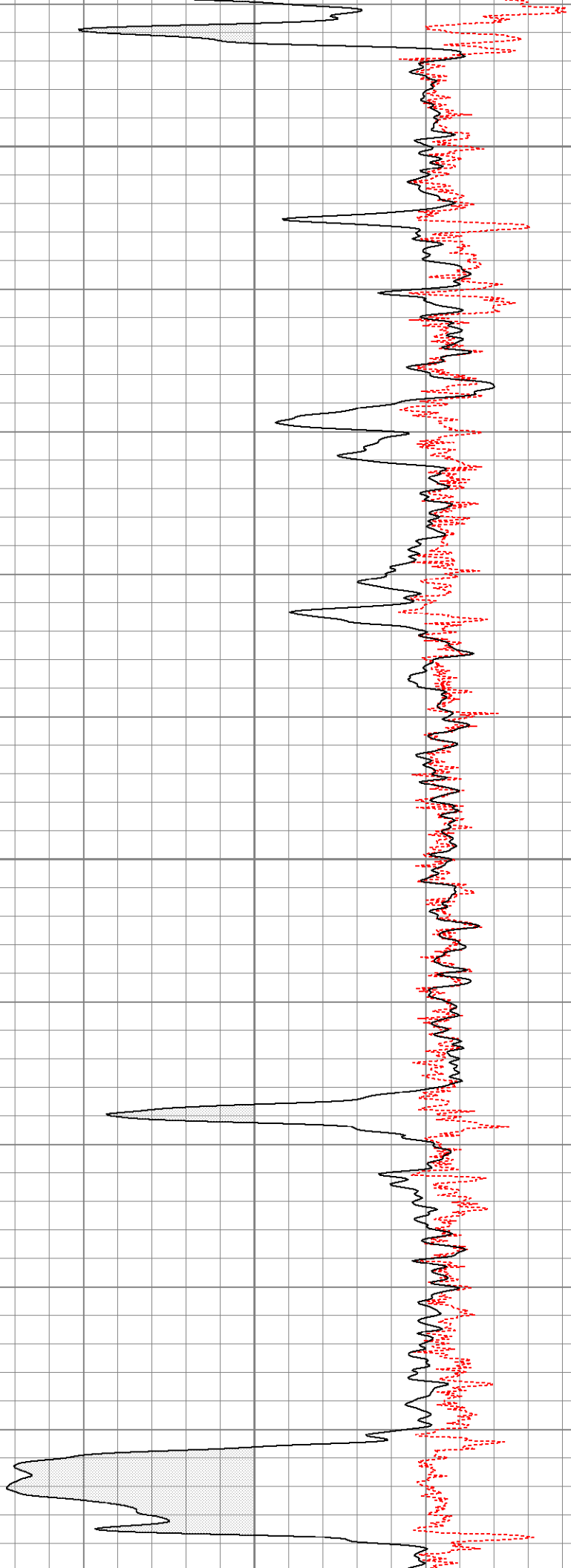
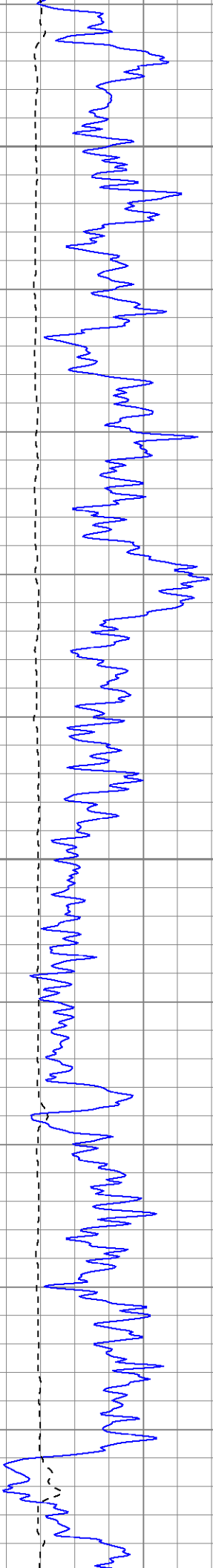
1850



1900

1950

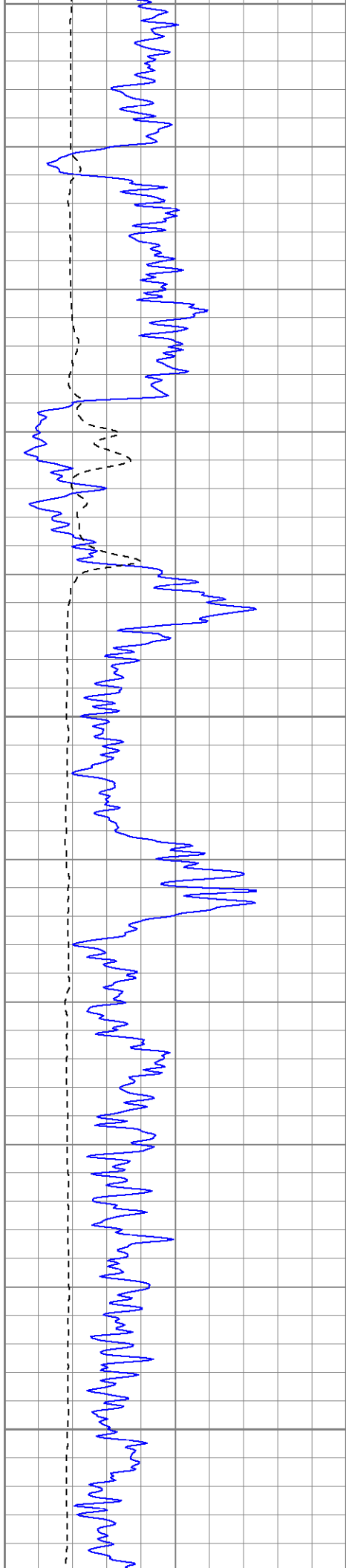
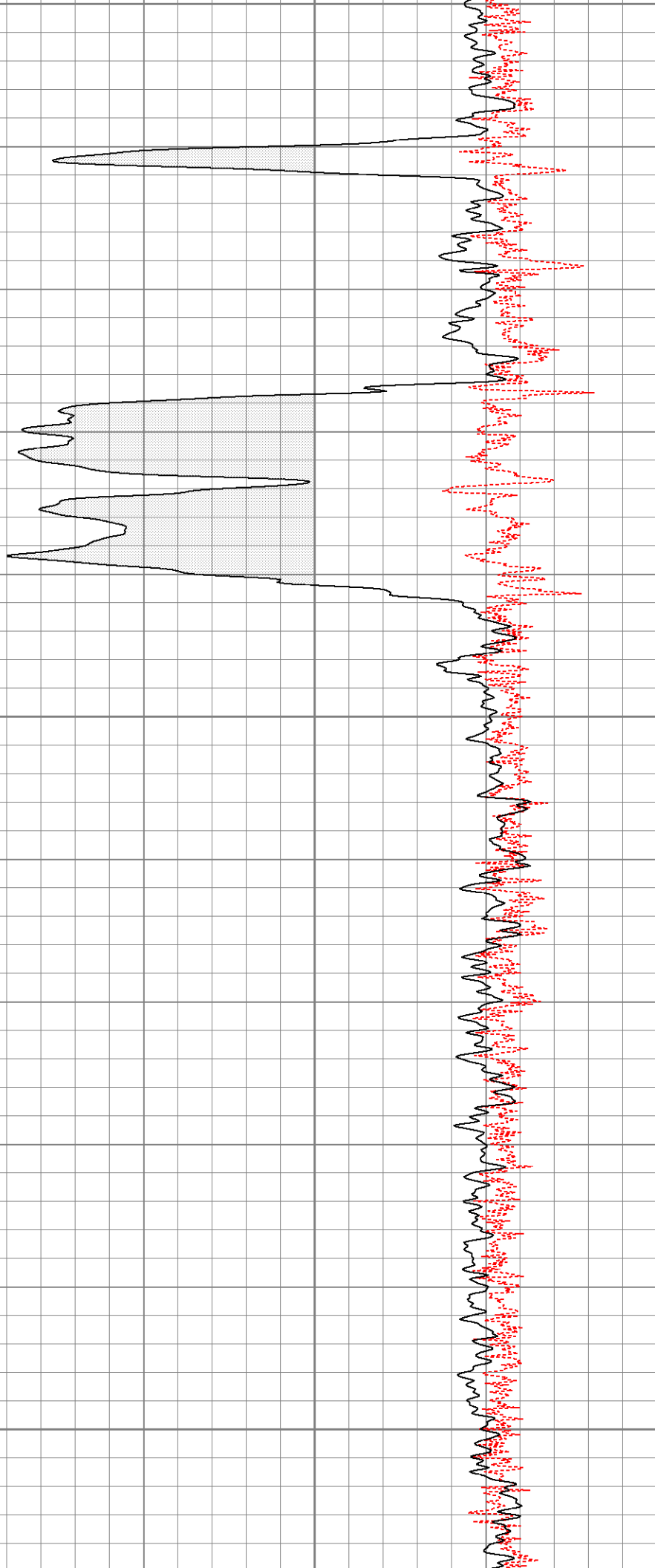
2000



2000

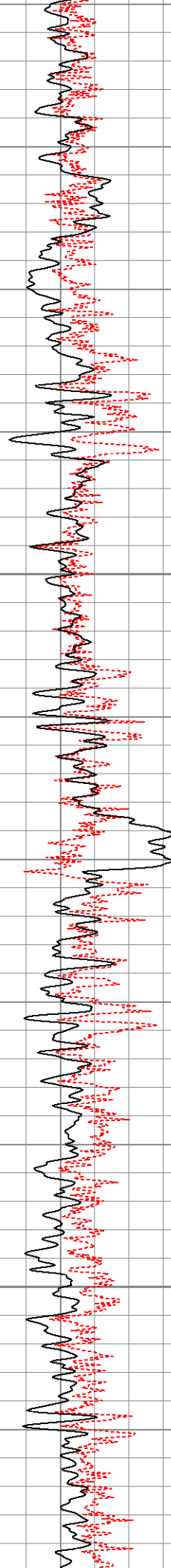
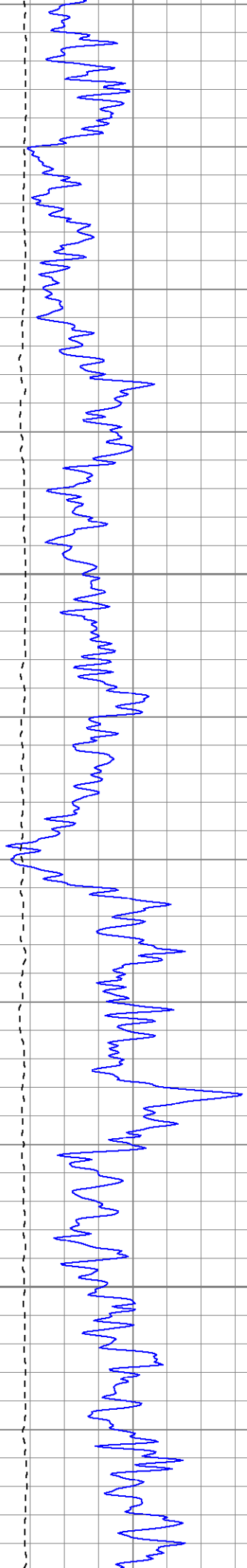
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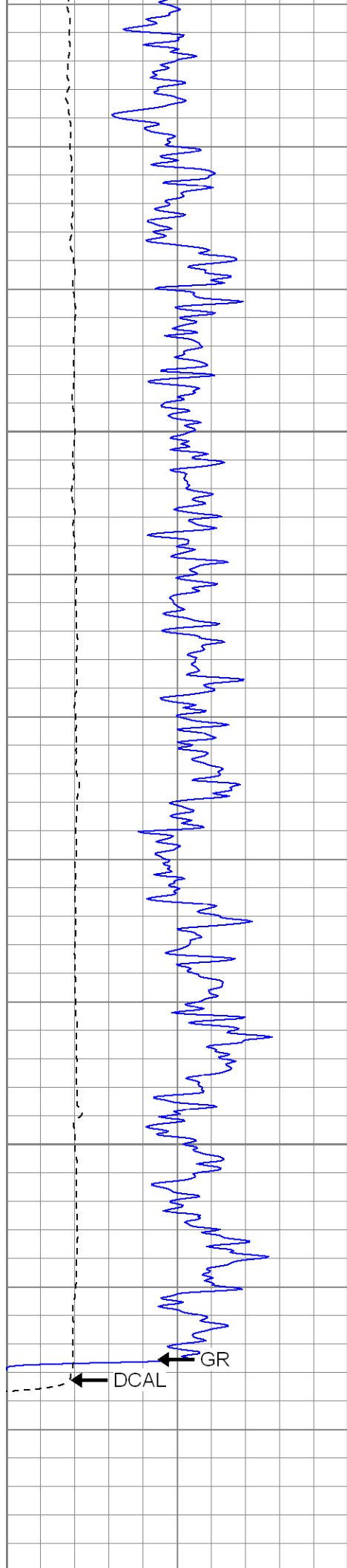
2100



2150

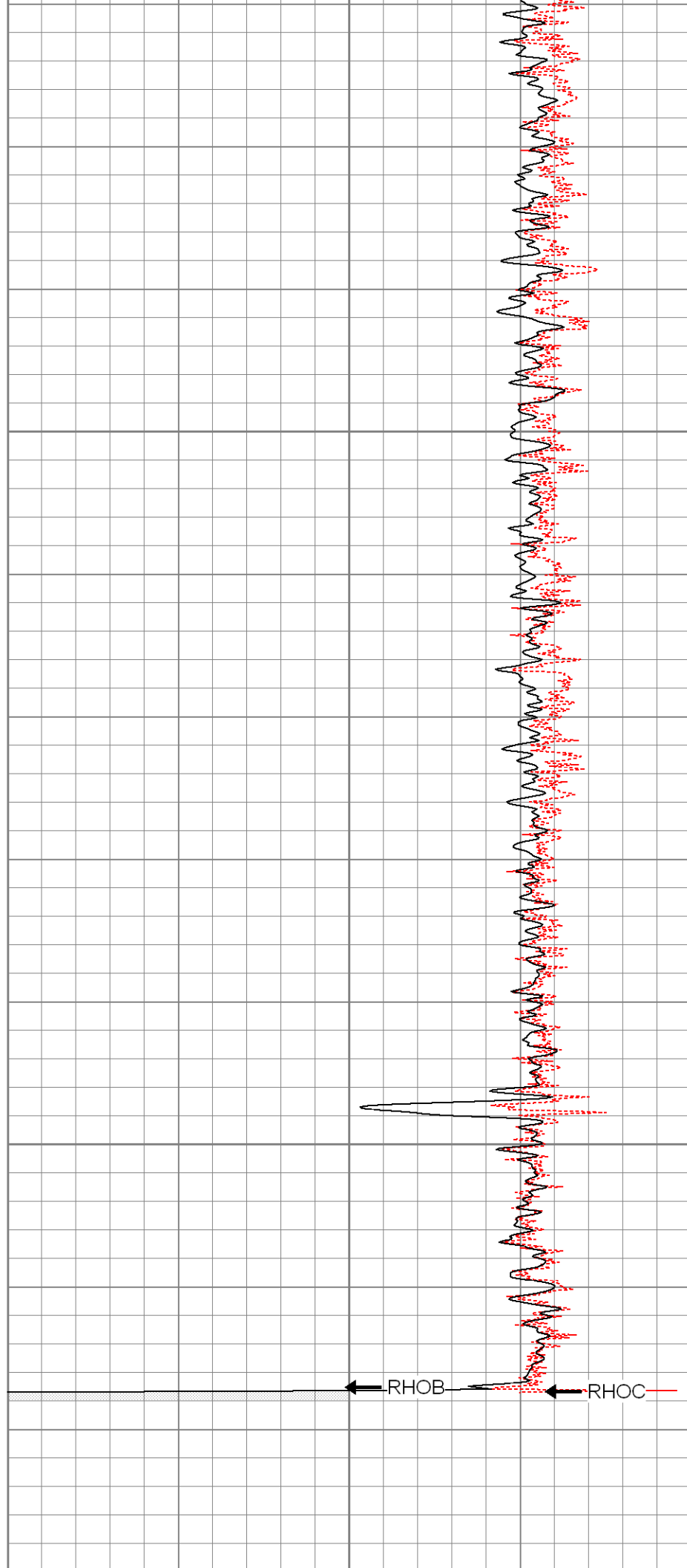
2200





2250

2300



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

Calibration Report

```
Database File:      xtoge3307.db
Dataset Pathname:  pass1
Dataset Creation:   Mon Jul 14 19:23:14 2008 by Log Open-Cased 071220
```

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Mon Jul 14 19:20:56 2008
Downhole Cal Performed: Mon Jul 14 19:20:59 2008
After Survey Verification Performed: Mon Jul 14 19:21:01 2008

Surface Calibration

Readings			References			Results		
Loop:	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		750.000	Ohm-m		
		-0.005	V		12.000	Ohm-m		
		-7.230	V		3745.000	mmho-m		

Temperature Calibration Report

Serial Number: 2542T
Tool Model: CDLP
Performed: Mon Jul 14 13:40:29 2008

Reference	Reading
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Low Reference:	55.00 degF	3.11	V
High Reference:	160.00 degF	5.35	V

Gain:	46.88
Offset:	-90.78
Delta Spacing	1

Compensated Density Calibration Report

Serial-Model: 2542-T2
Source / Verifier: /

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		725.64	339.44	cps
Aluminum	2.590	g/cc		162.65	232.88	cps
Spine Angle = 75.86			Density/Spine Ratio = 0.571			
	Size			Reading		
Small Ring	8.00	in		1.33	V	
Large Ring	14.00	in		2.67	V	

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Mon Jul 07 18:02:27 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: 5108
 Tool Model: PROBE
 Performed: Mon Jul 14 13:33:34 2008

 Calibrator Value: 1 NAPI

 Calibrator Reading: 1 cps

 Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.47		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe Epithermal	4.92	3.63	85.00
GR	31.94		GR-OH (2001) 2001	3.56	3.25	40.00
			CDL-T2 (2542) Gearhart	9.29	4.00	201.00
LSD	23.19		TEMP-CDLP (2542T) Probe Density/Temp	0.01	1.00	1.00
DCAL	22.98					
SSD	22.73					
TEMP	22.55					

