



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

COMPENSATED DENSITY/NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 33-03
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09508 00

659' FNL & 2035' FWL

SEC 33 TWP 33S RGE 67W

Other Services
DIL

Permanent Datum	Ground Level	Elevation	7416'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B. -----
D.F. -----
G.L. 7416'

Date 7-7-08

Run Number	One		
Depth Driller	2150'		
Depth Logger	2142'		
Bottom Logged Interval	2125'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 490'		
Casing Logger	489'		
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	6:30 P.M.		
Maximum Recorded Temperature	118 DEG F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	J. Cappellucci		
Witnessed By	Mr. Don Johnson		

<<< Fold Here >>>

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.

Neutron Porosity Invalid from 1354' to 1218' due to foam.

Well Directions:

Drive Past Weston, at Substation on right take left through white gate,
go thru green gate, stay right, drive thru two locations, at Y stay left go uphill,
at top at Y stay left to location.

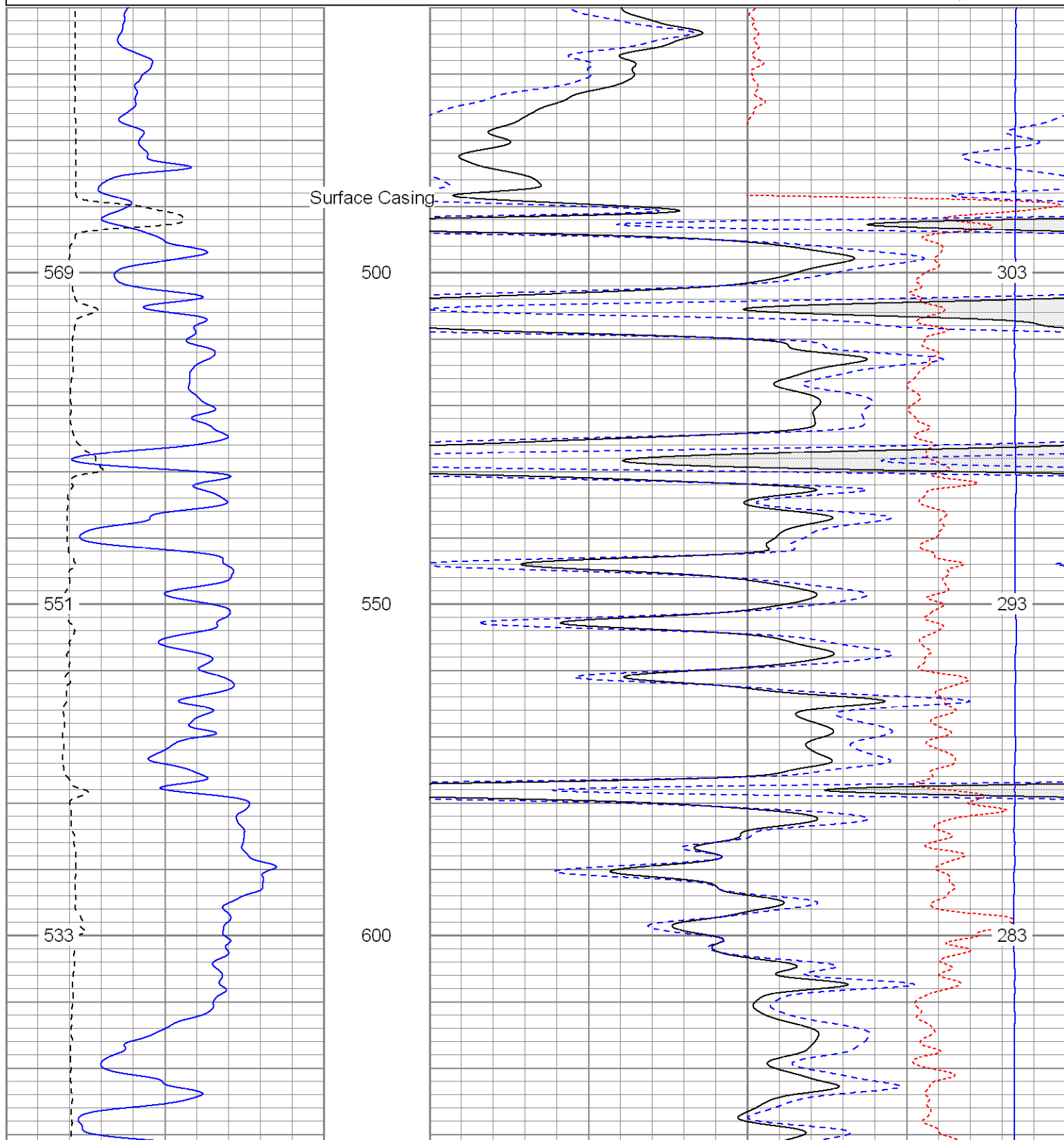


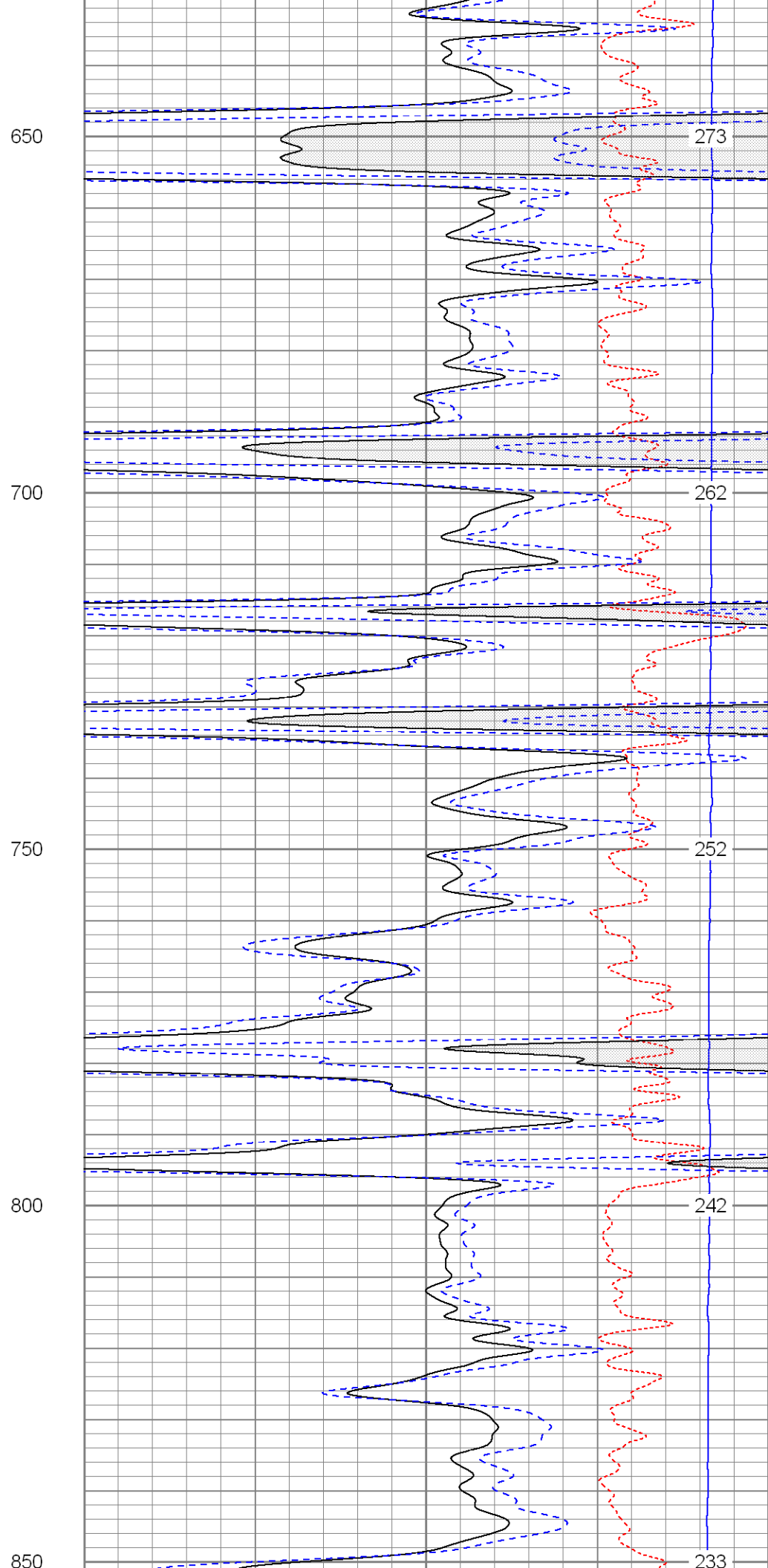
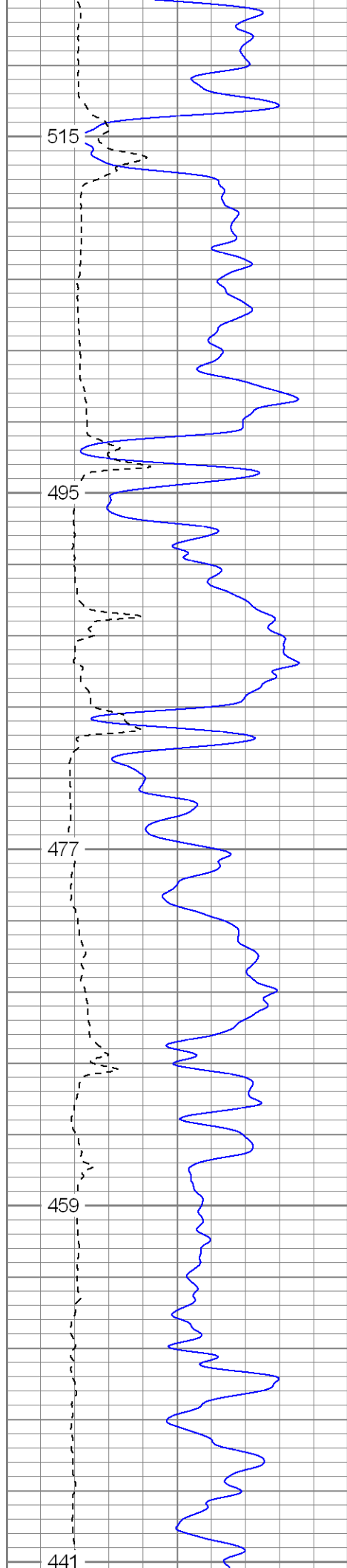
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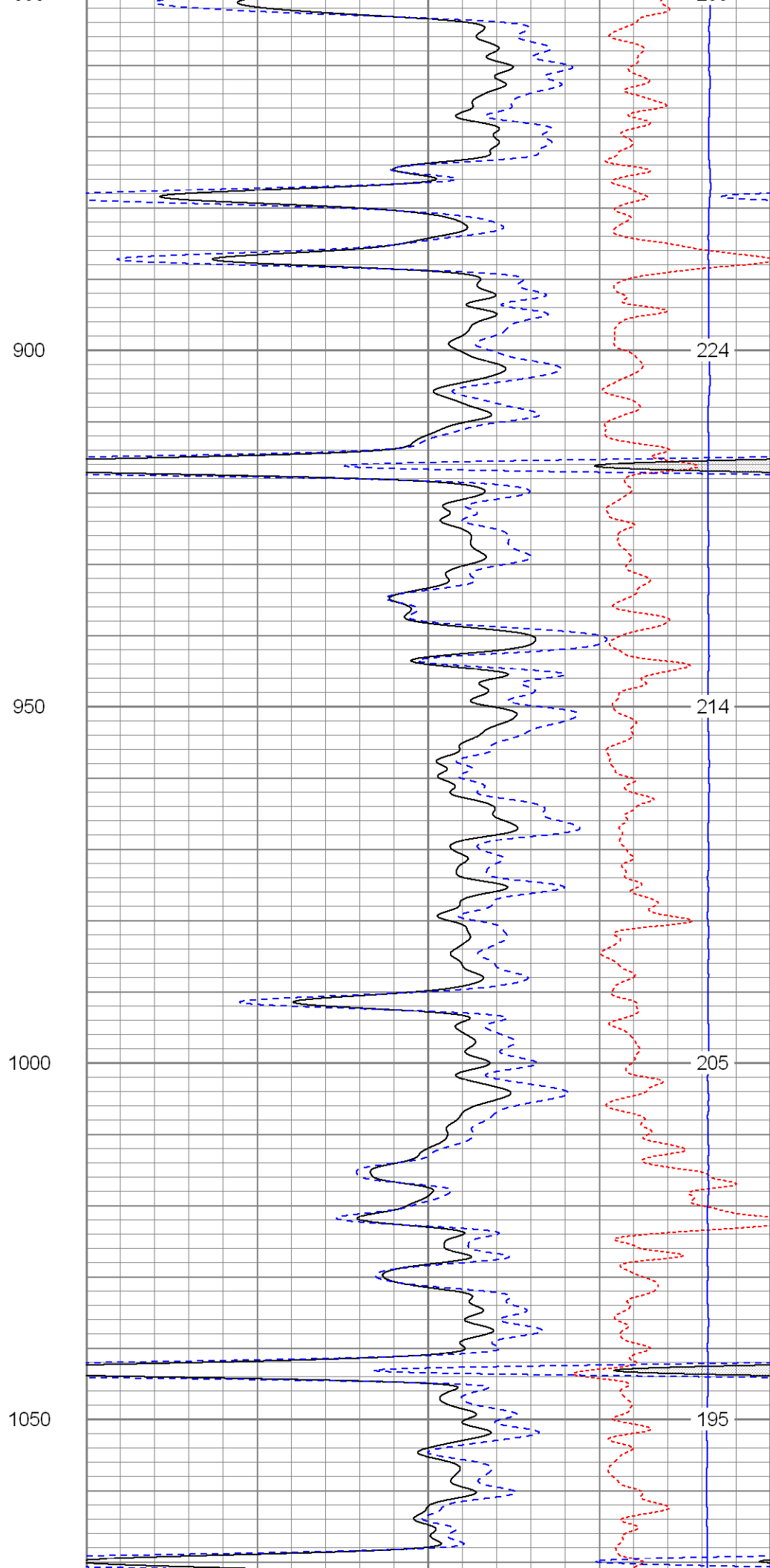
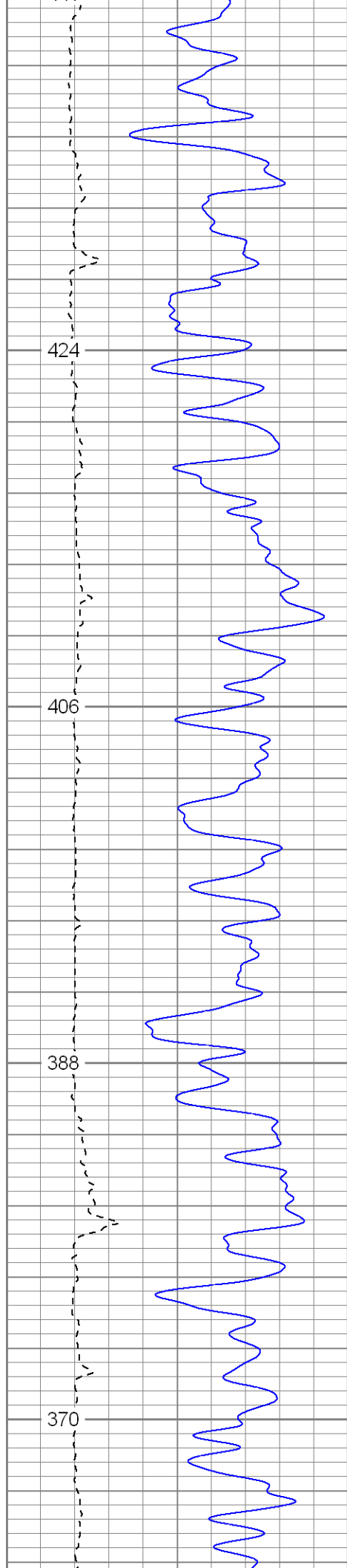
Main Pass

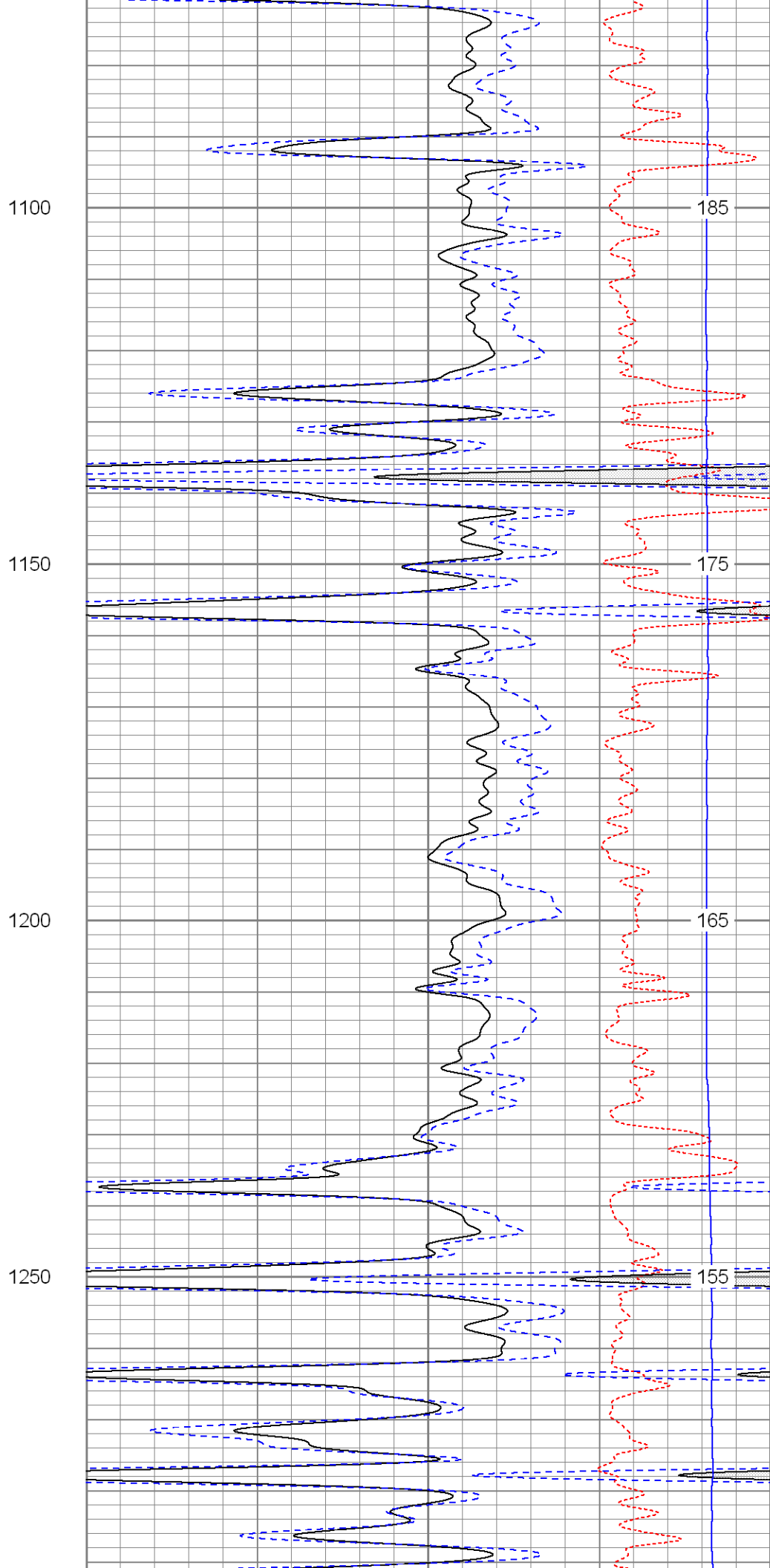
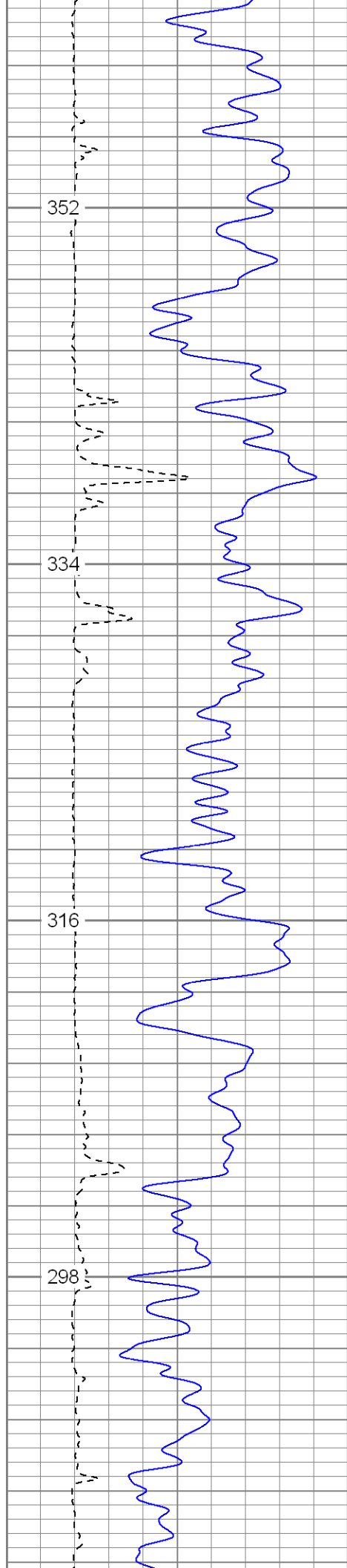
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Dataset Creation: Mon Jul 07 20:07:19 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

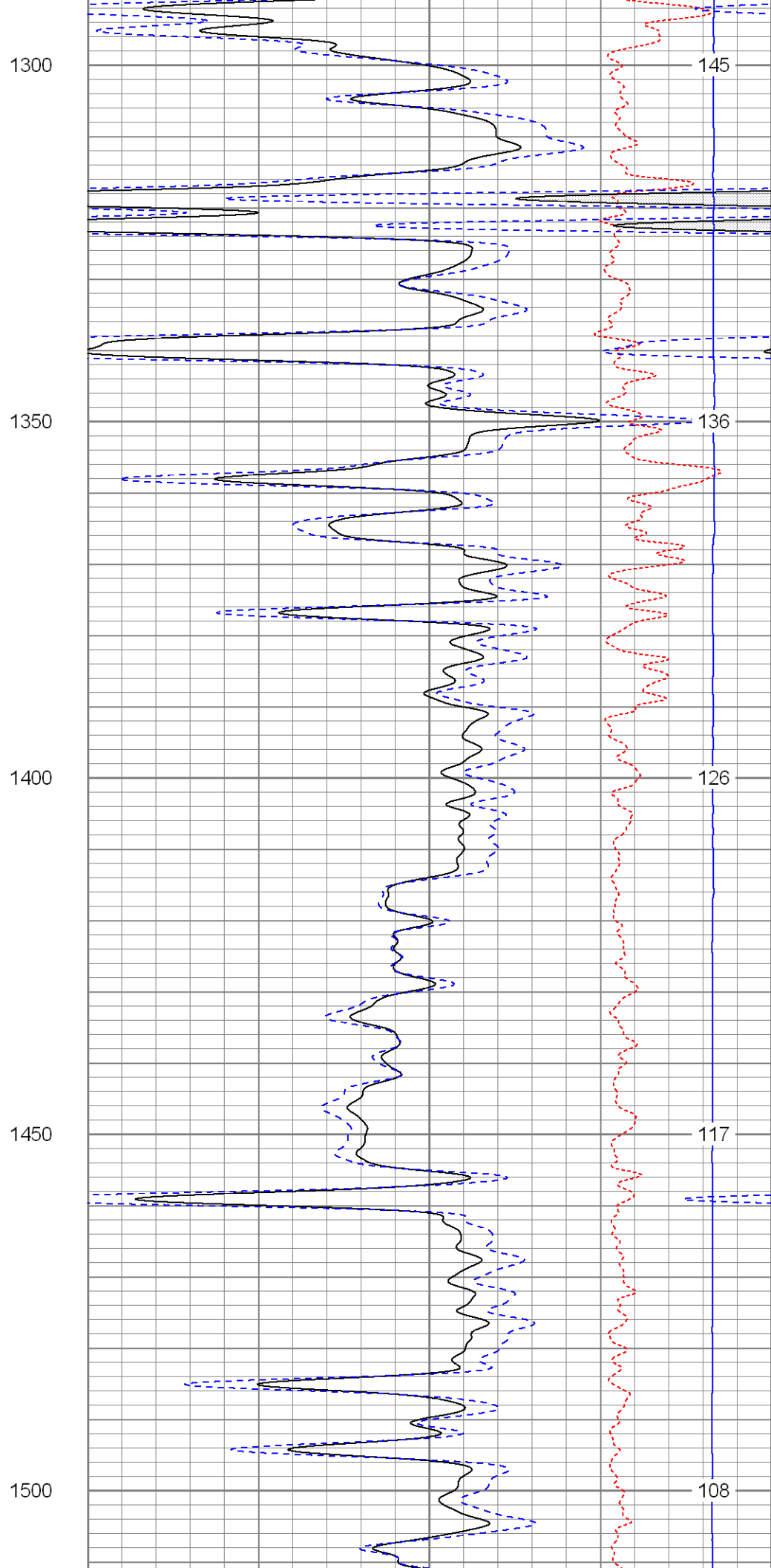
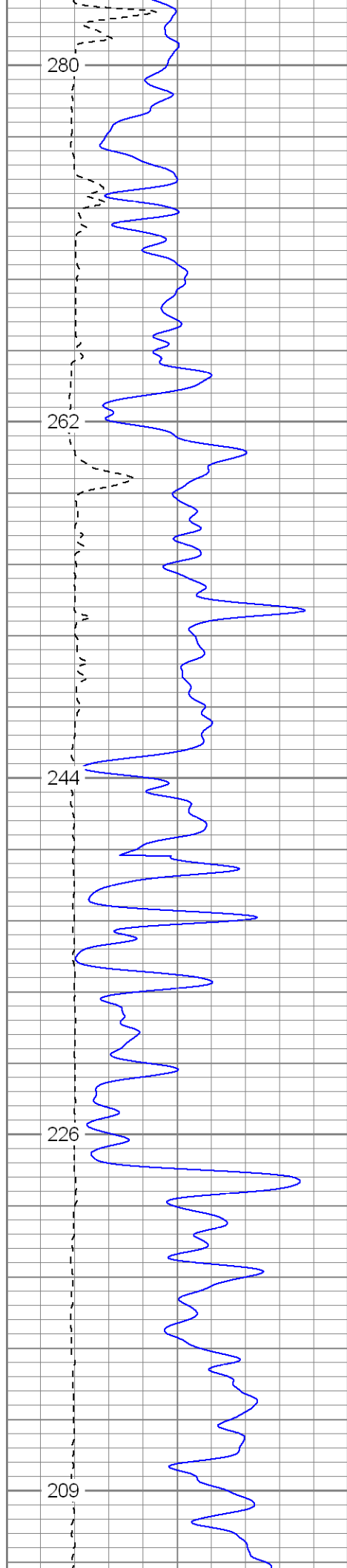
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6	DCAL (in)	16	1	RHOB (g/cc)		2
TBHV (ft3)			30	DPOR (pu)		-10
				-0.5	RHOC (g/cc)	0.5
				7000	LTEN (lb)	0
						ABHV (ft3)

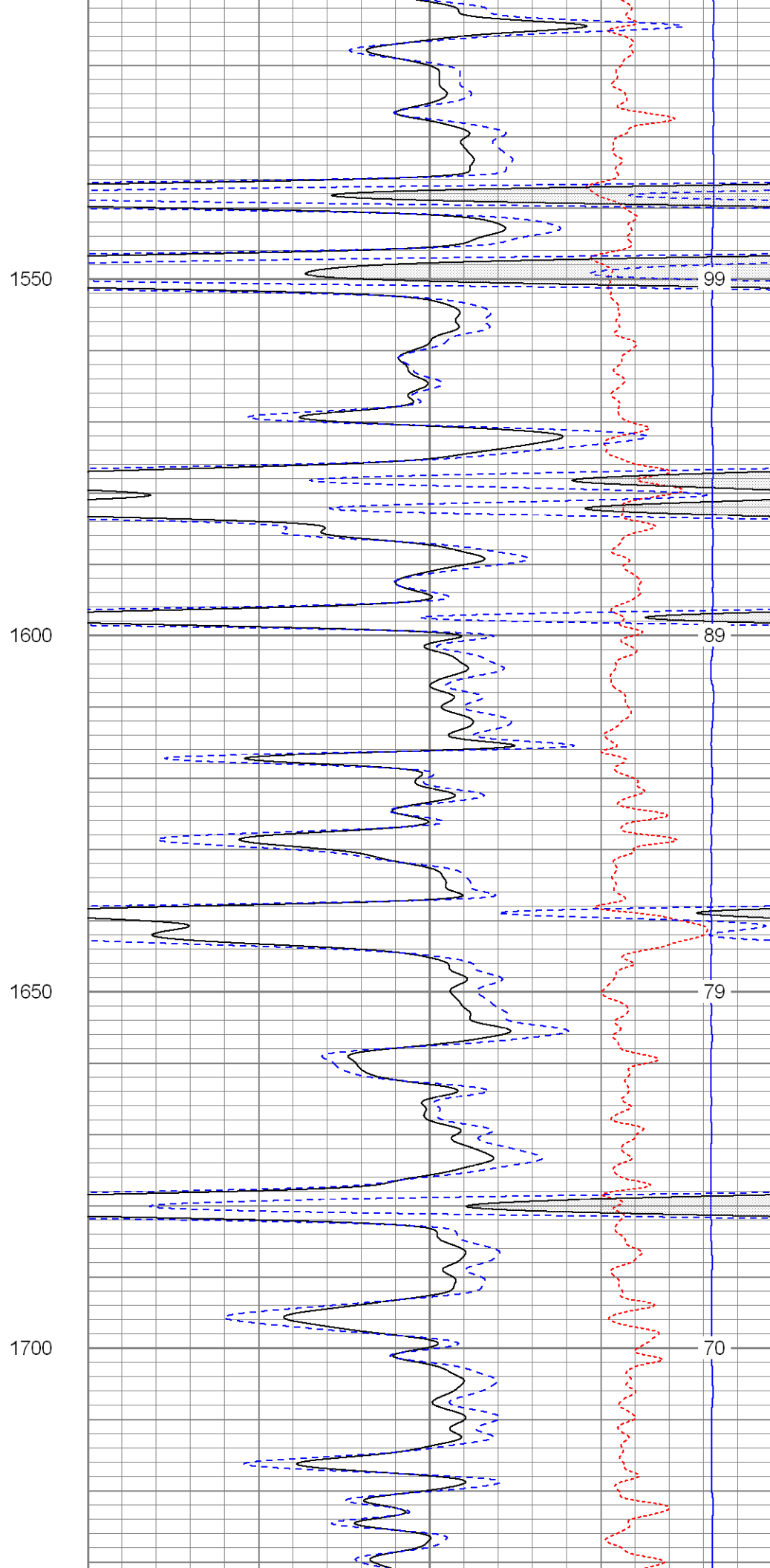
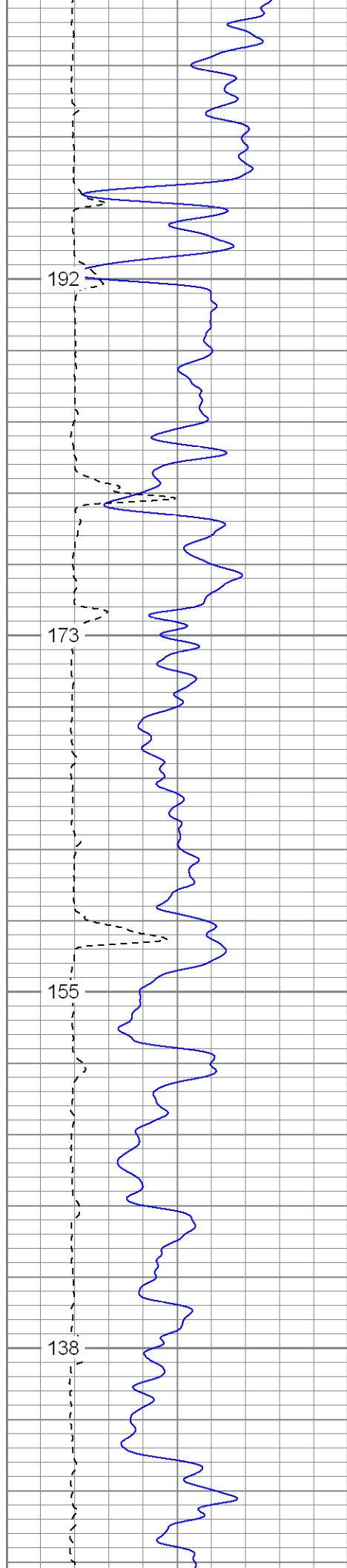


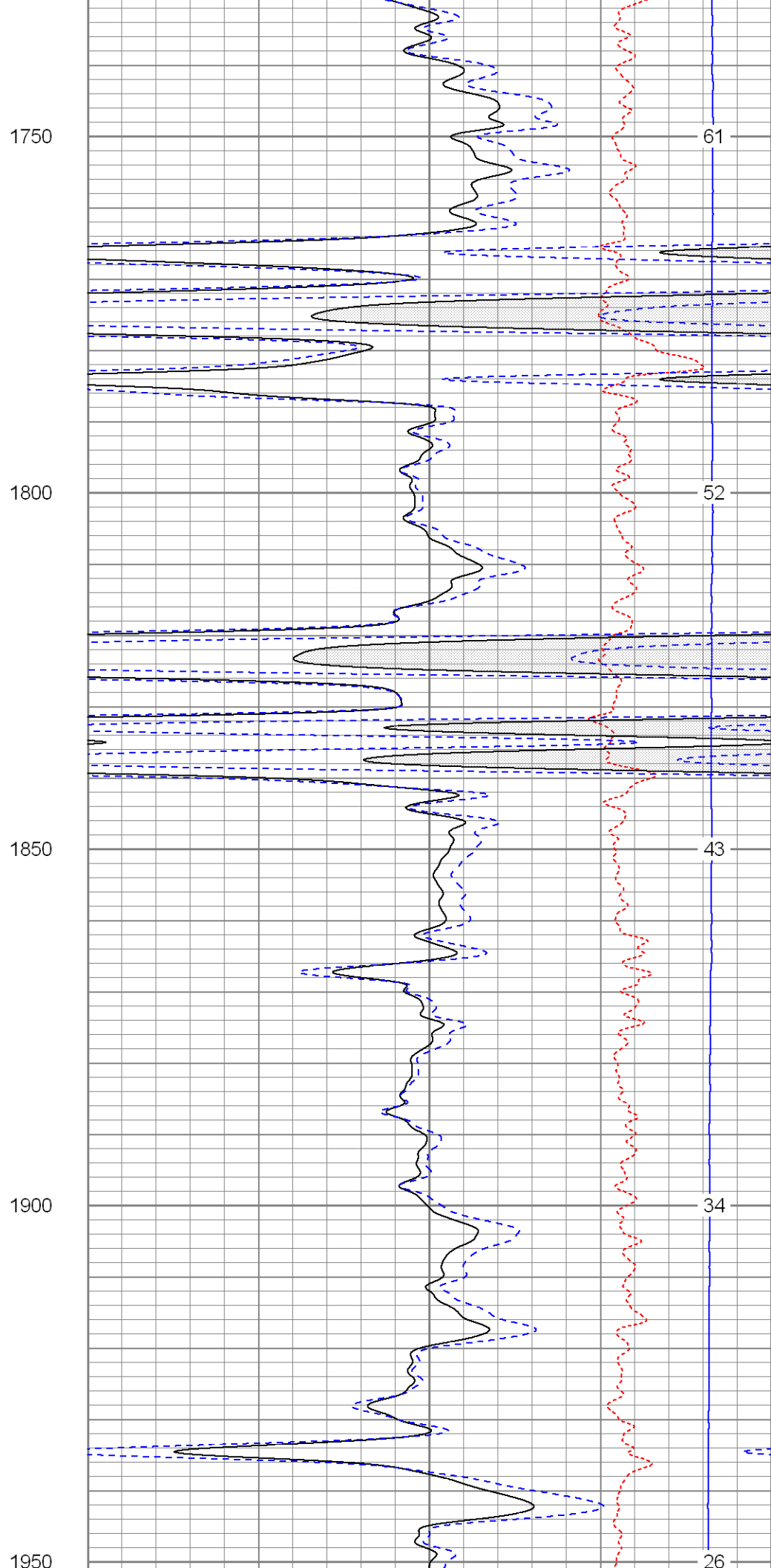
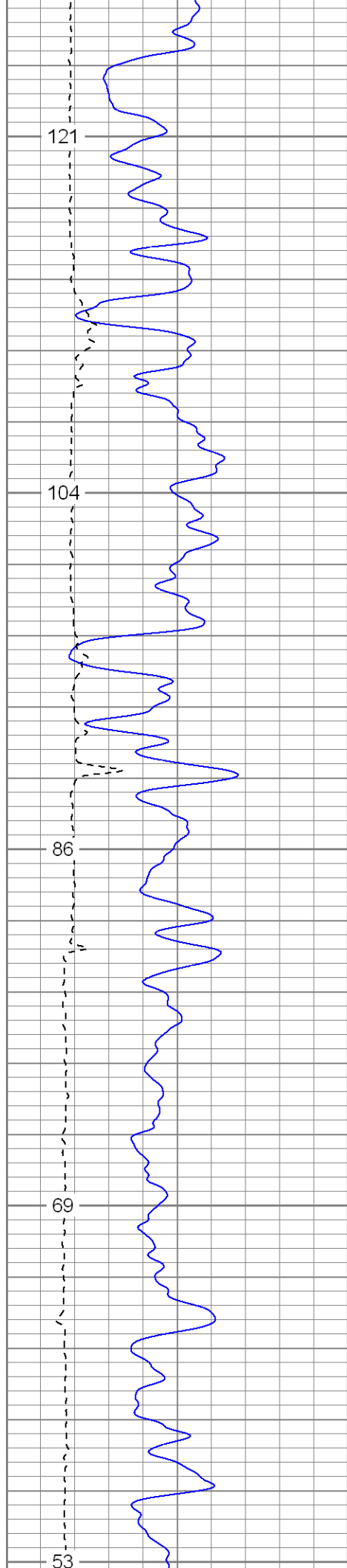


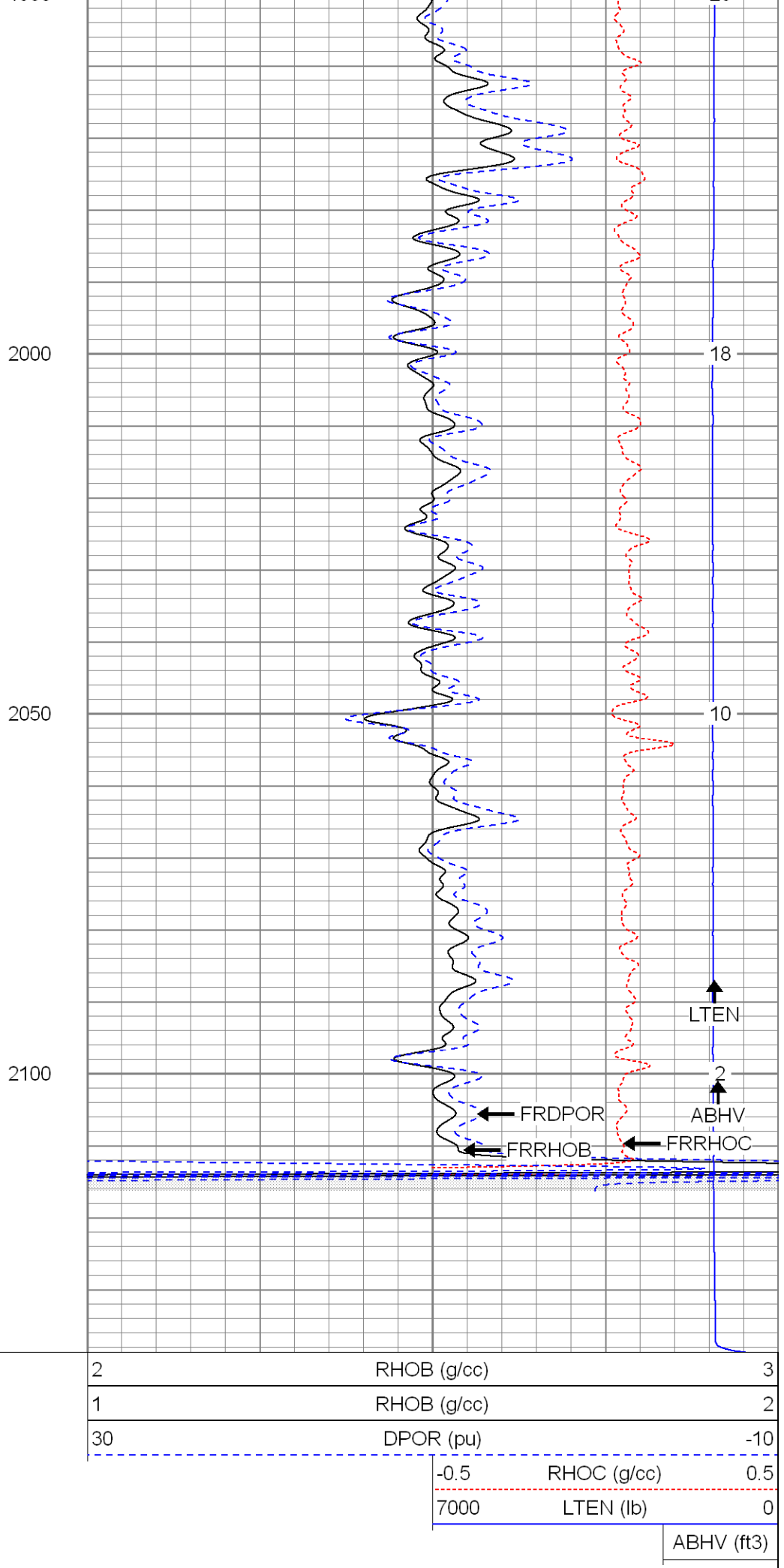
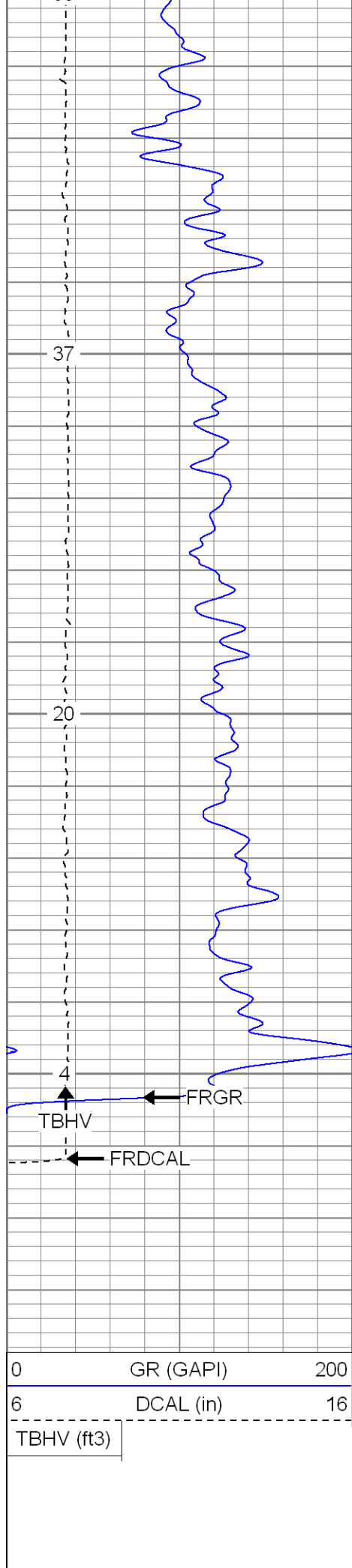














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Main Pass

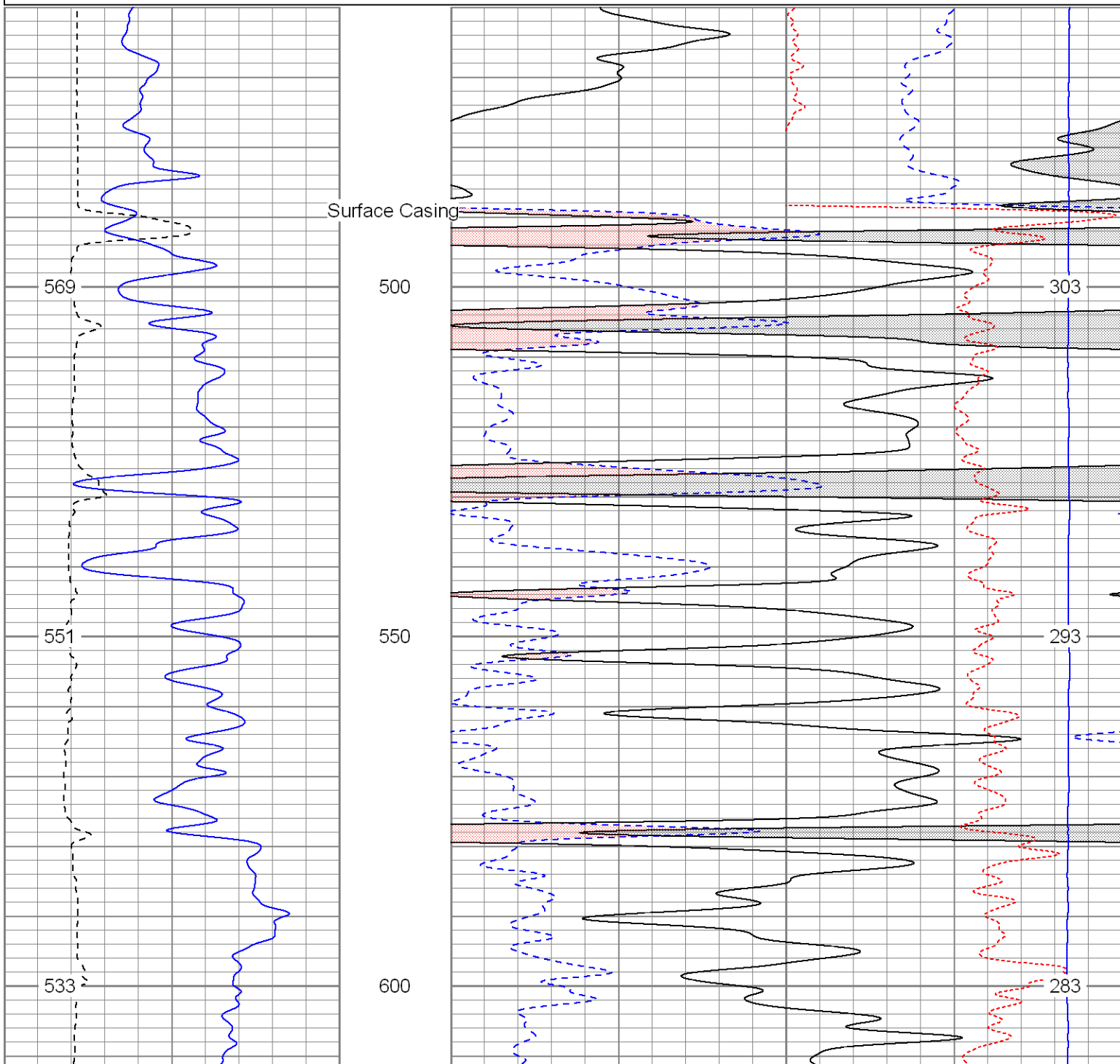
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Presentation Format: cdnl
Dataset Creation: Mon Jul 07 20:07:19 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

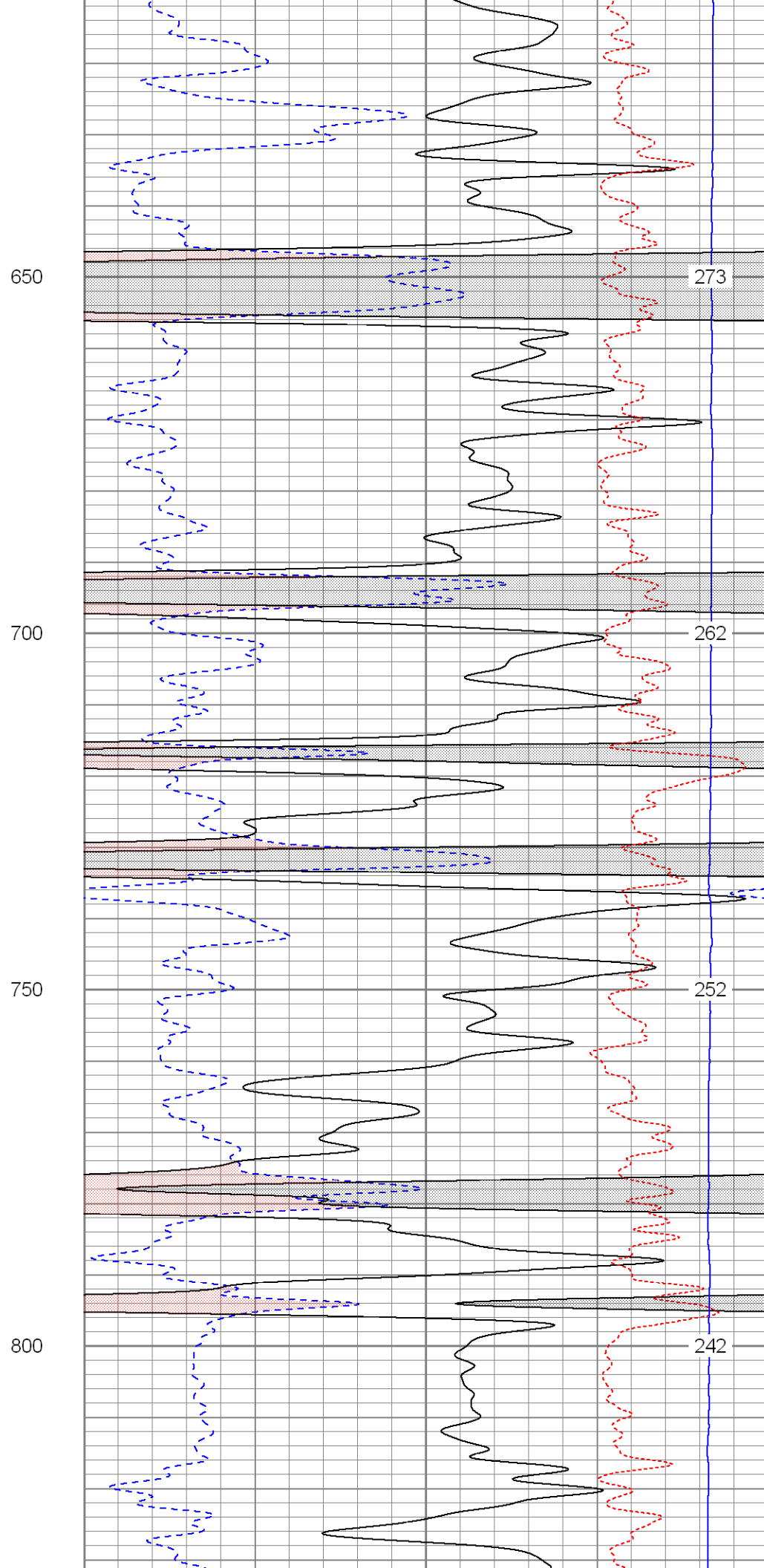
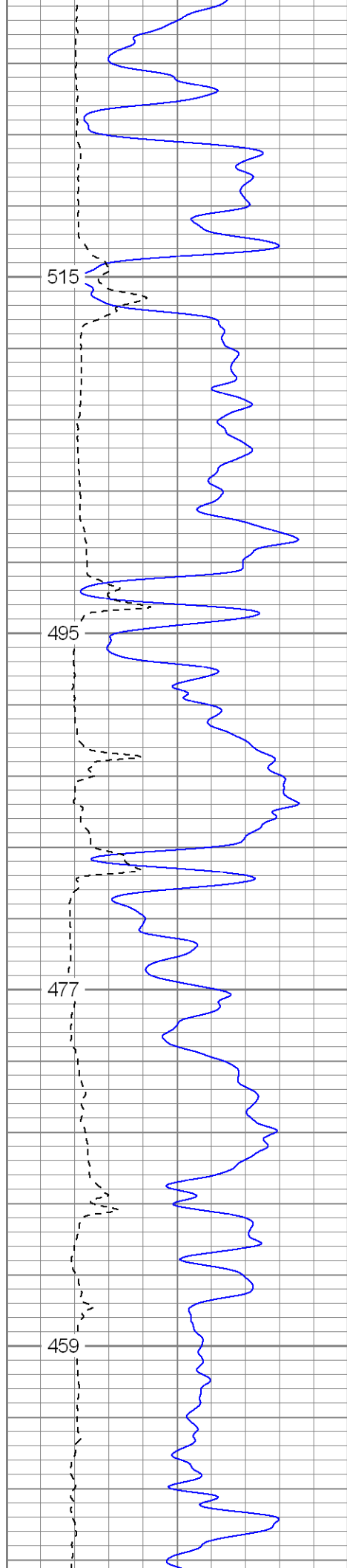
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

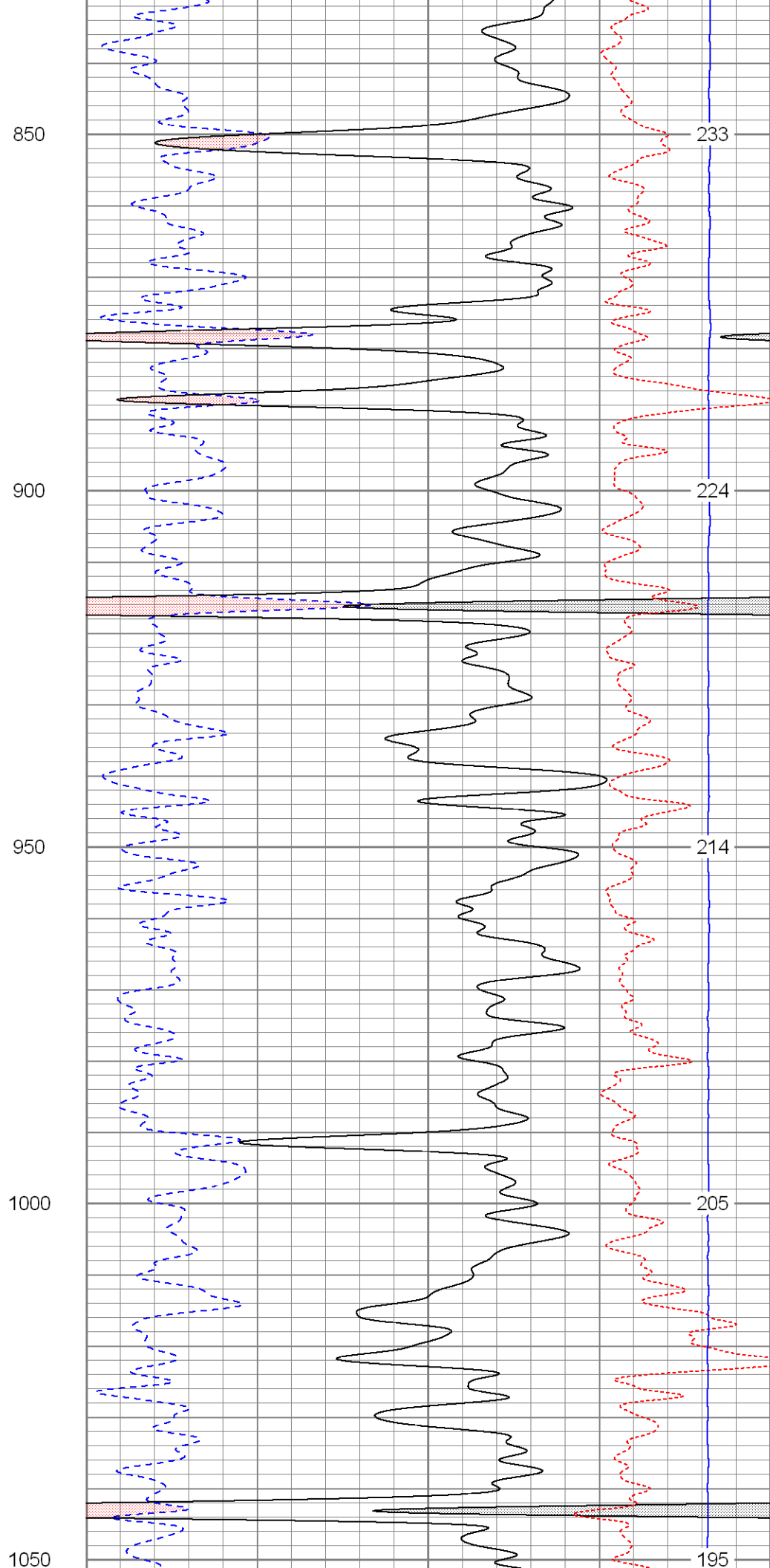
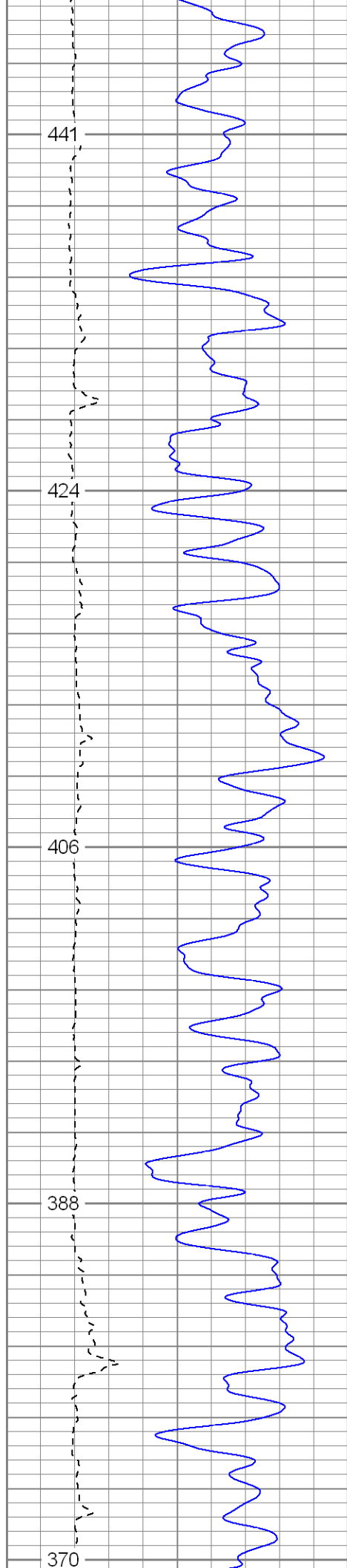
30	NPOR (pu)	-10
30	DPOR (pu)	-10

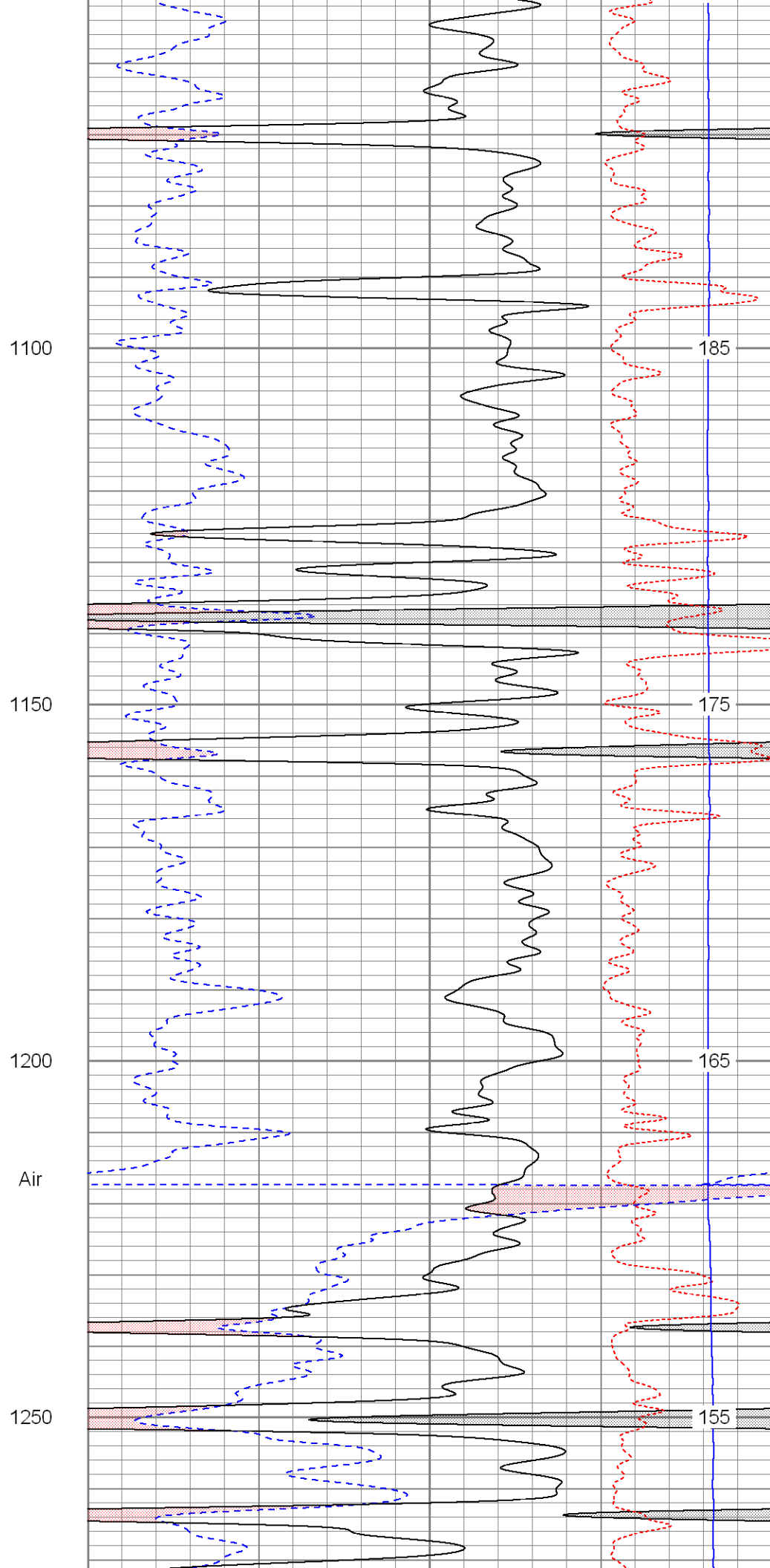
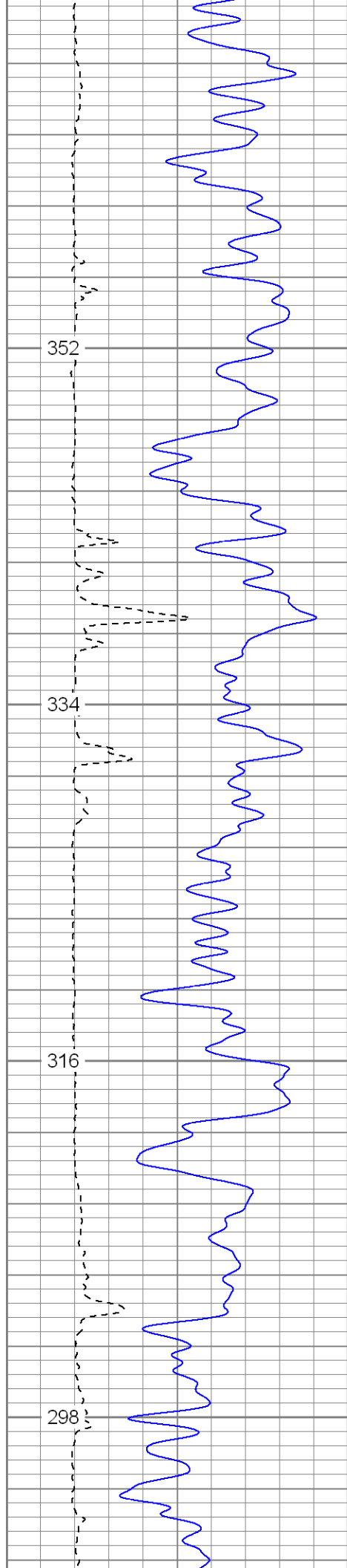
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0

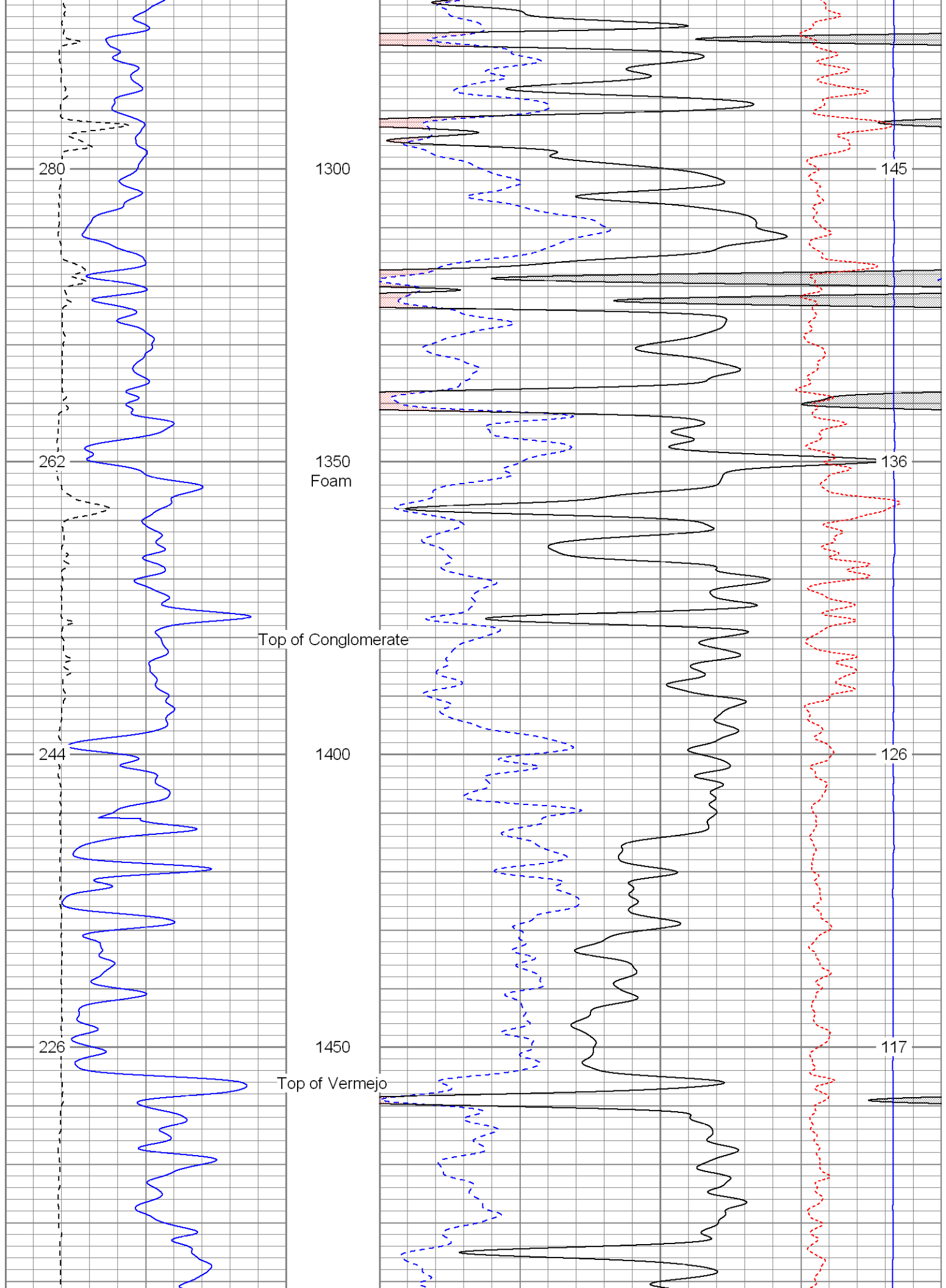
ABHV (ft3)

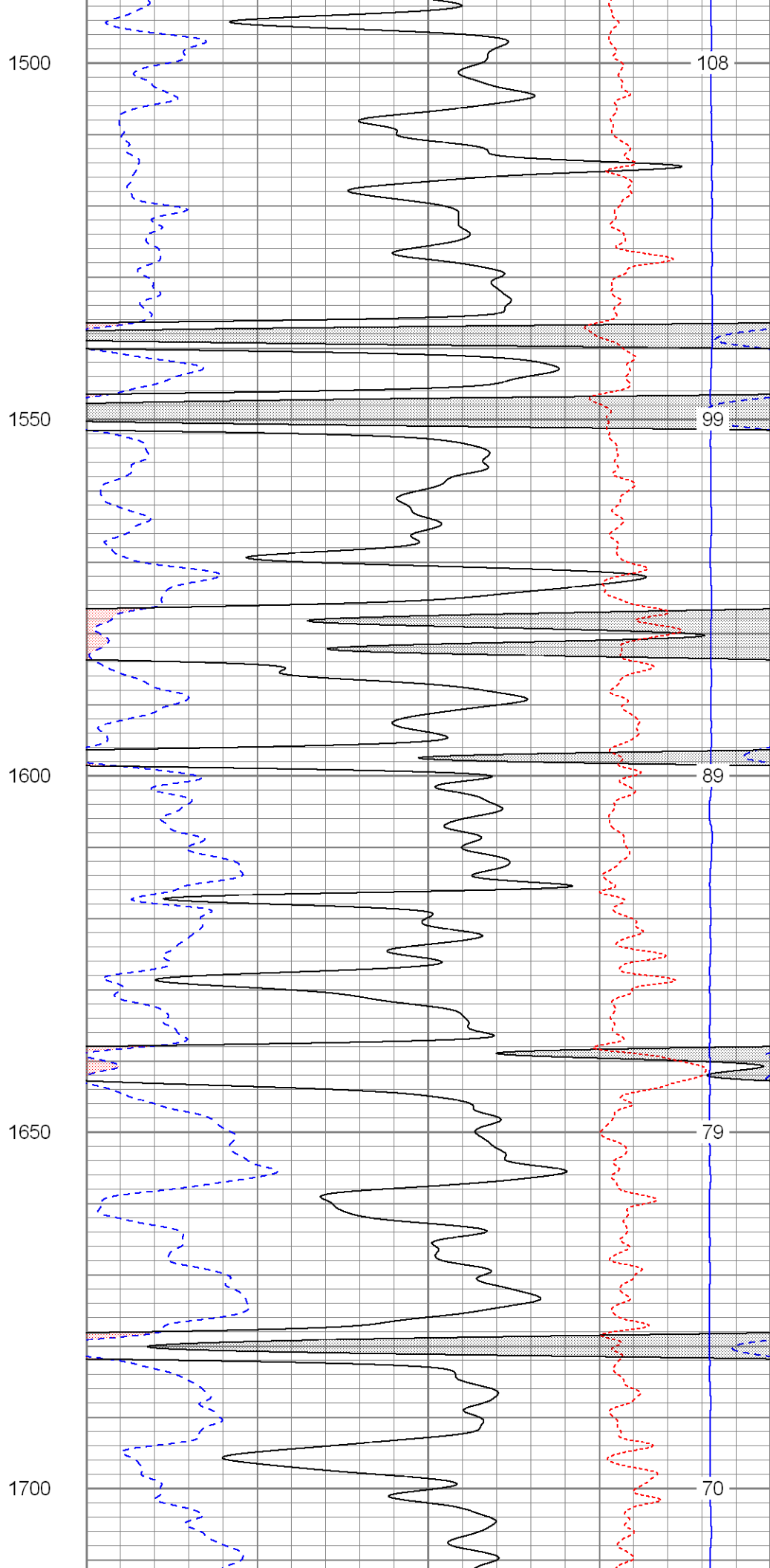
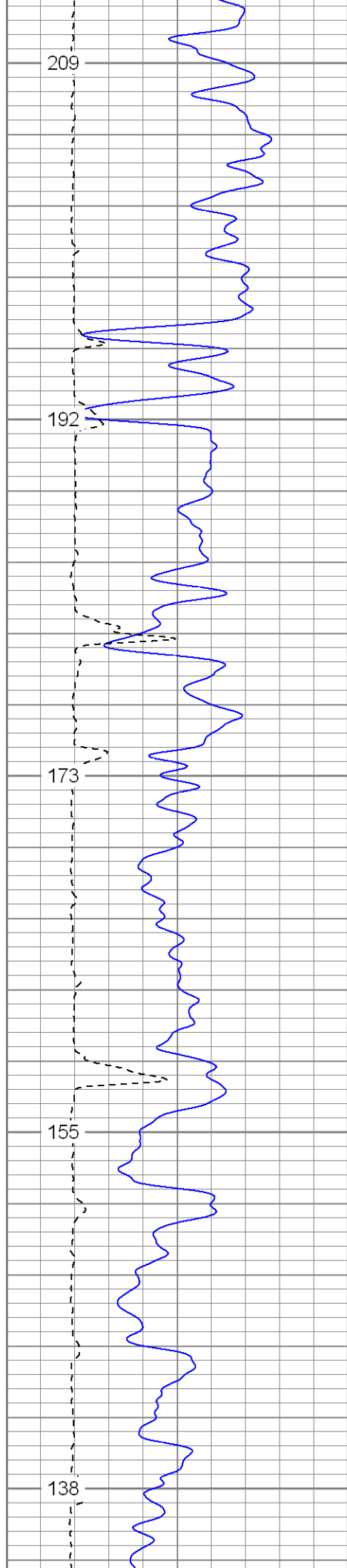


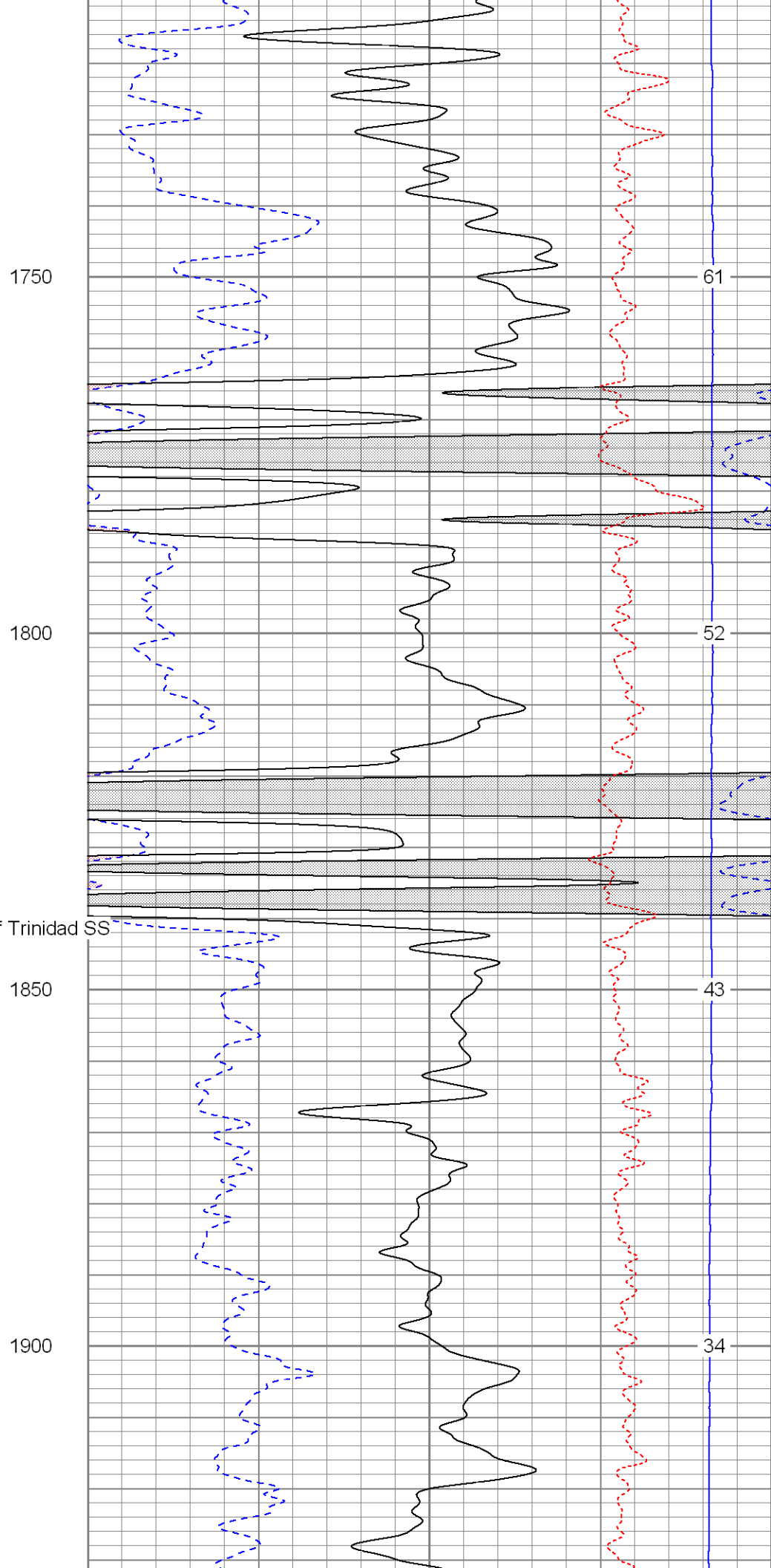
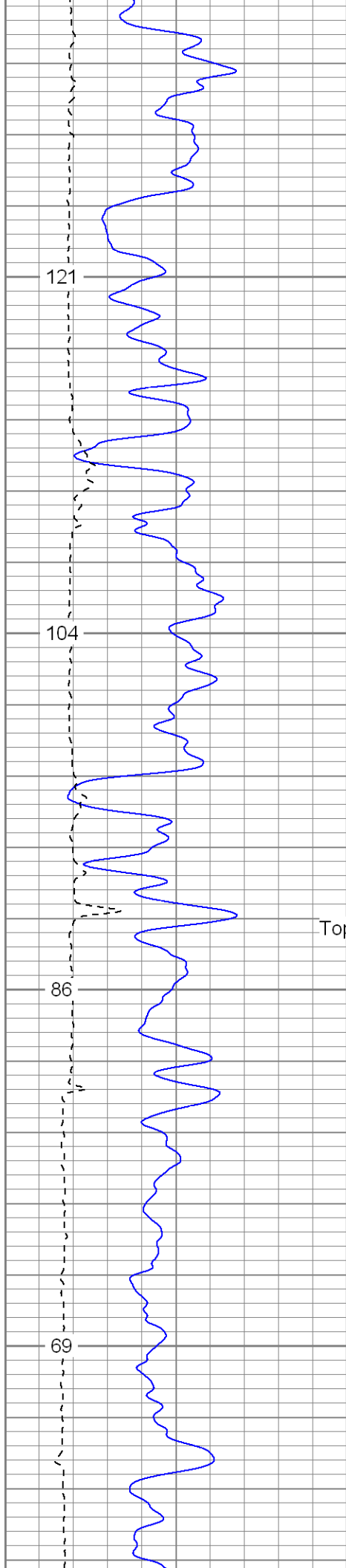


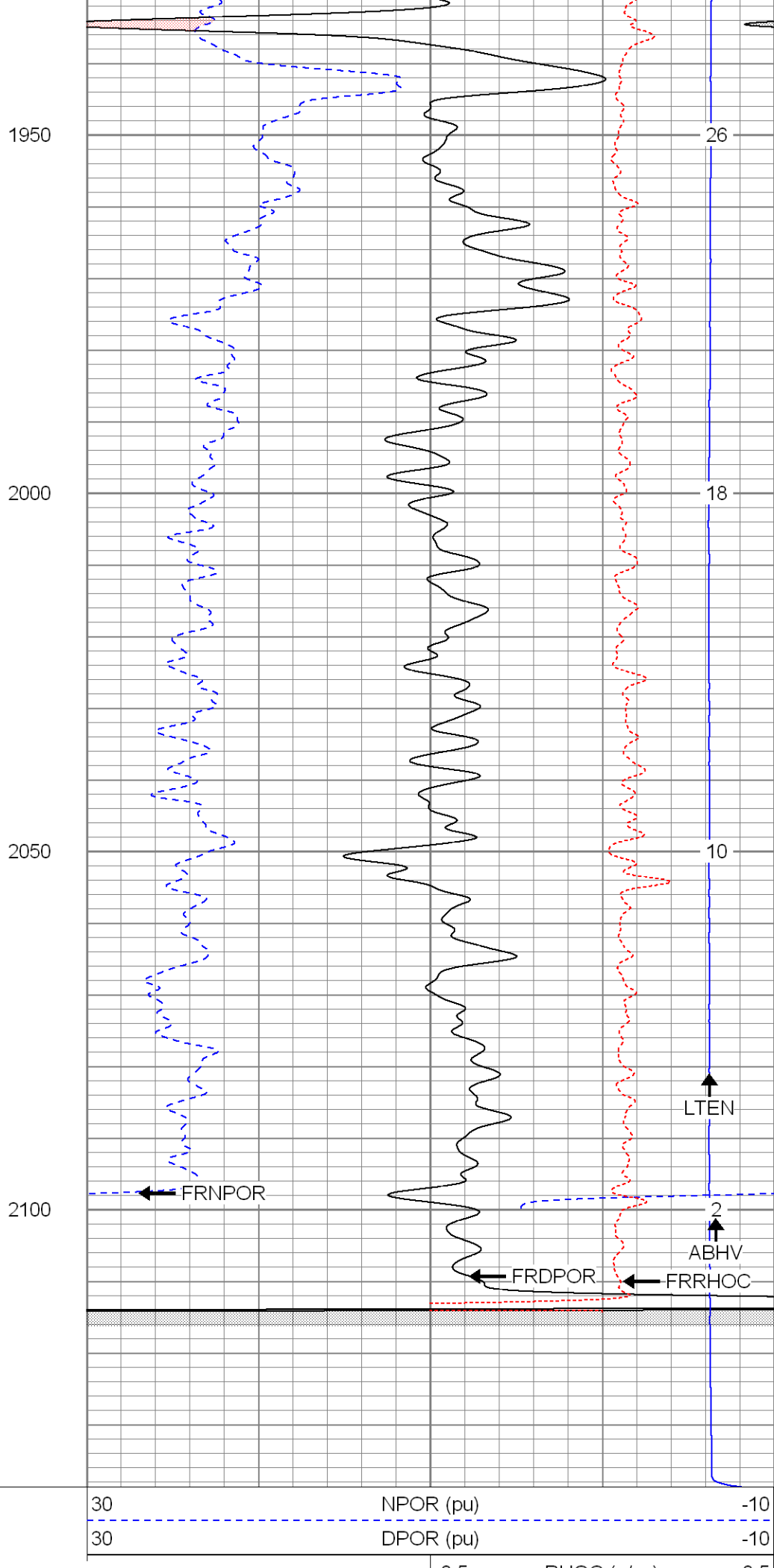
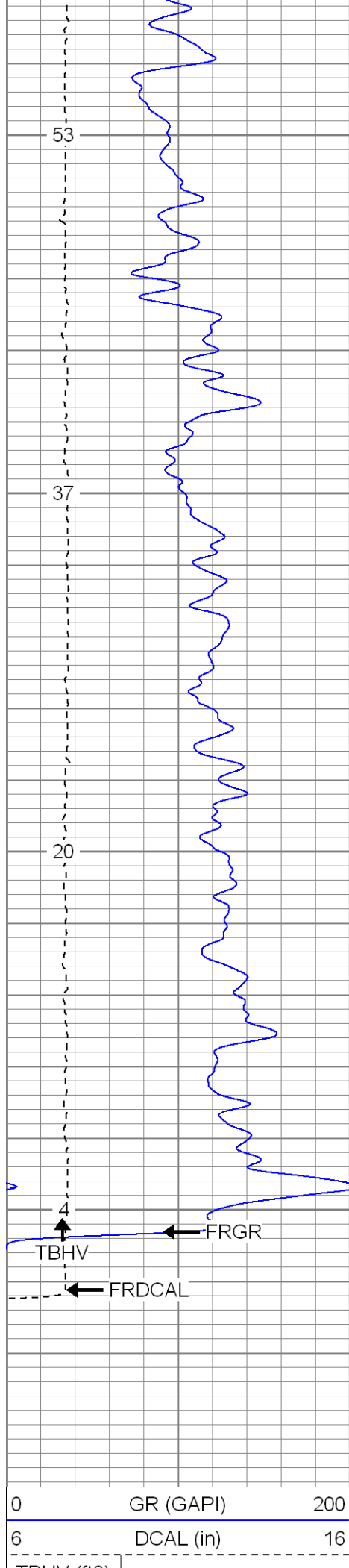













TBHV (ft3)	0.5	RHOC (g/cc)	0.5
	7000	LTEN (lb)	0
		ABHV (ft3)	



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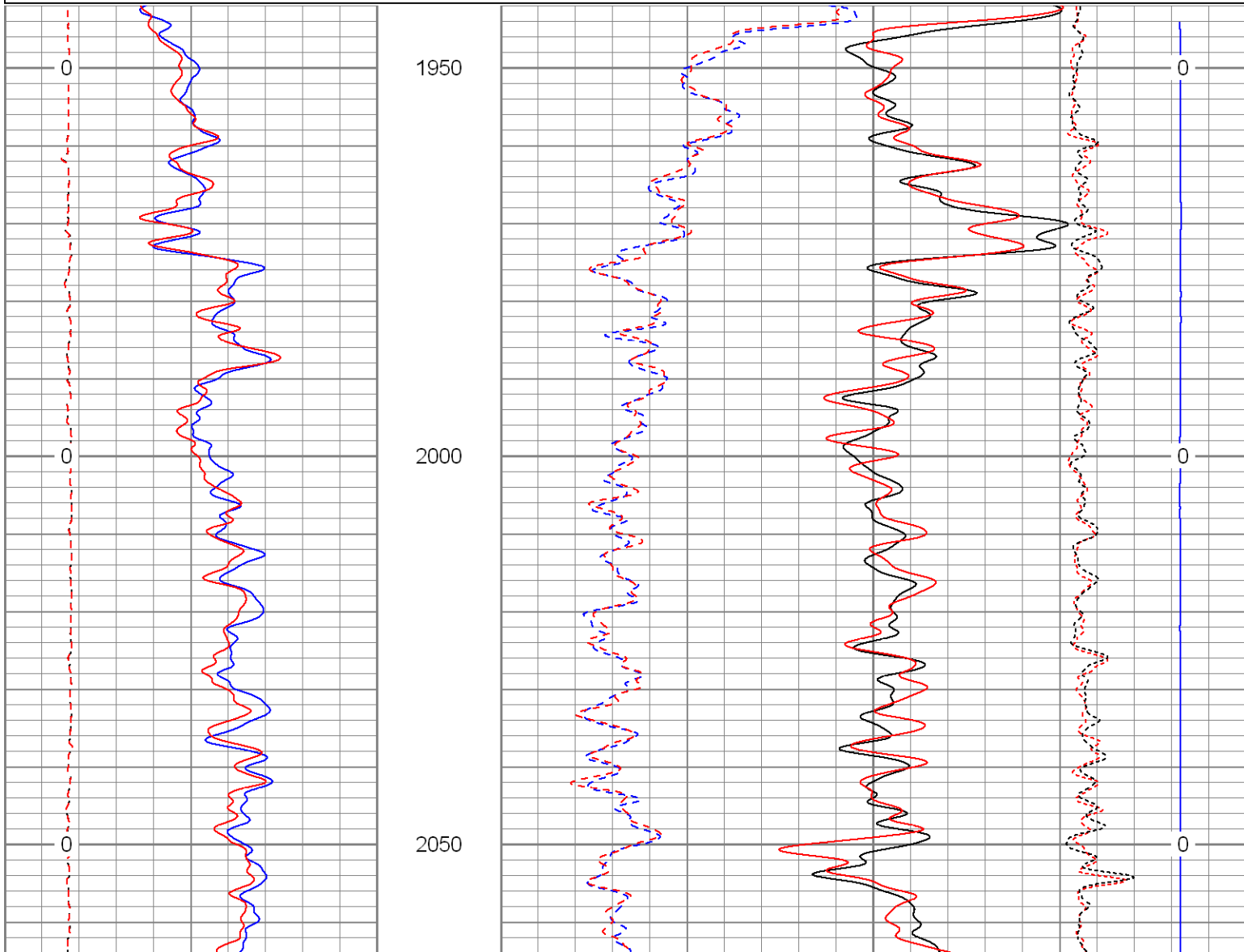
Repeat Pass

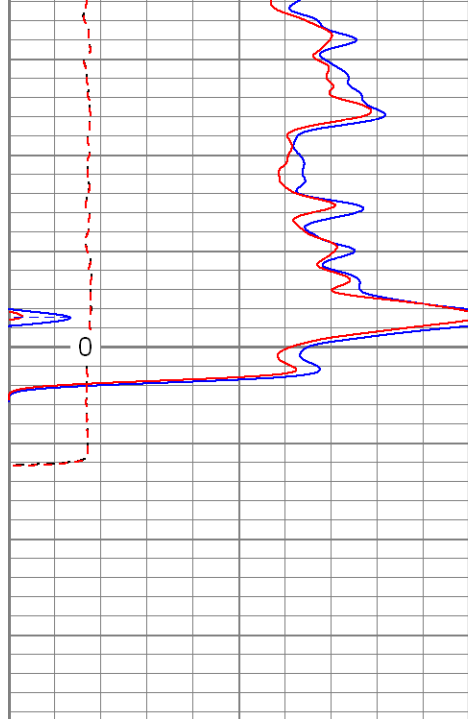
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 Charted by: Depth in Feet scaled 1:240

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

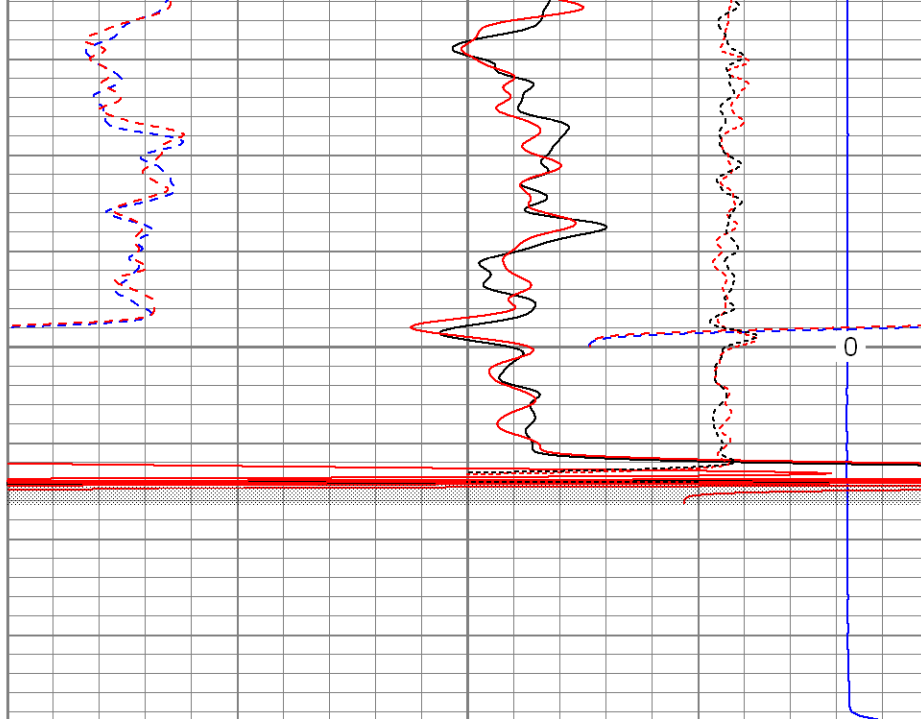
30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10

TBHV (ft3)	-0.5	RHOC (g/cc)	0.5
	7000	LTEN (lb)	0
	-0.5	RHOC-repeat (g/cc)	0.5
		ABHV (ft3)	





2100



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

ABHV (ft3)



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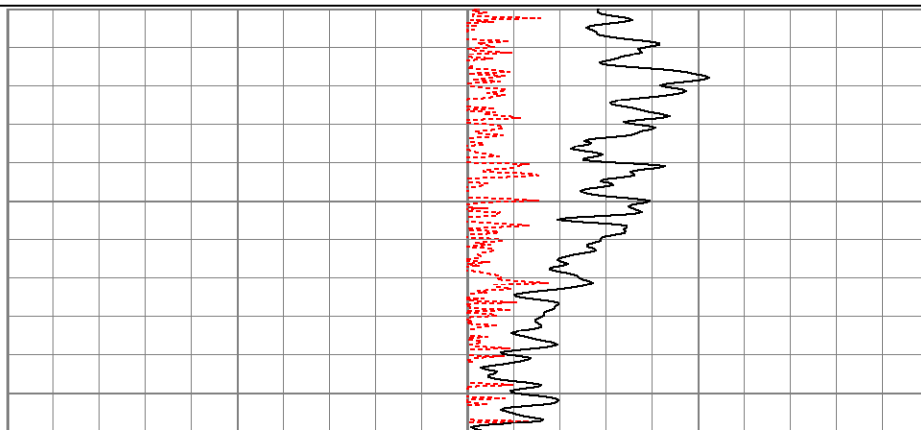
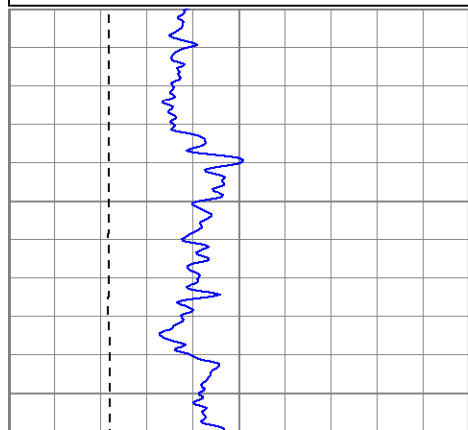
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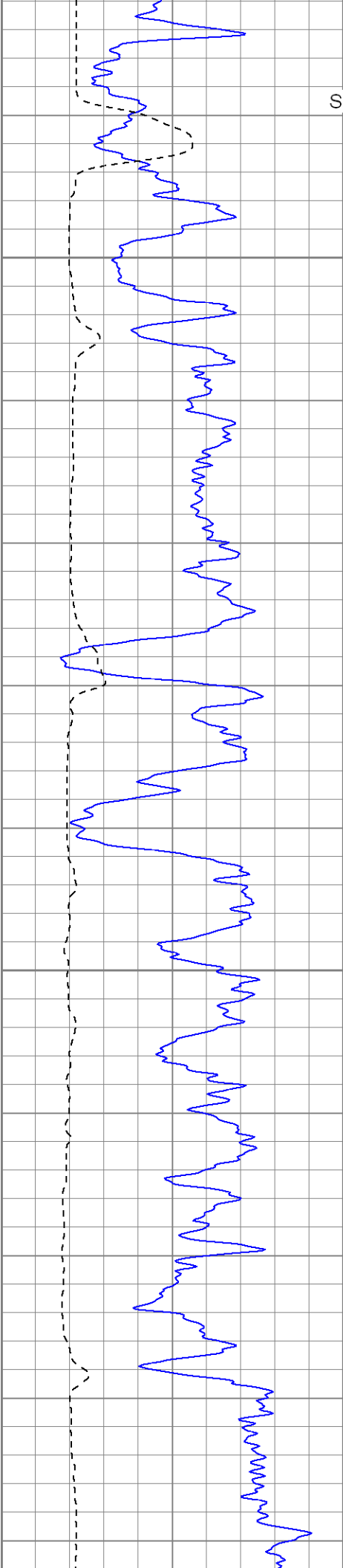
High Resolution Pass

Database File: xtoge3303.db
Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Tue Jul 08 08:16:07 2008 by Calc Open-Cased 070814
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

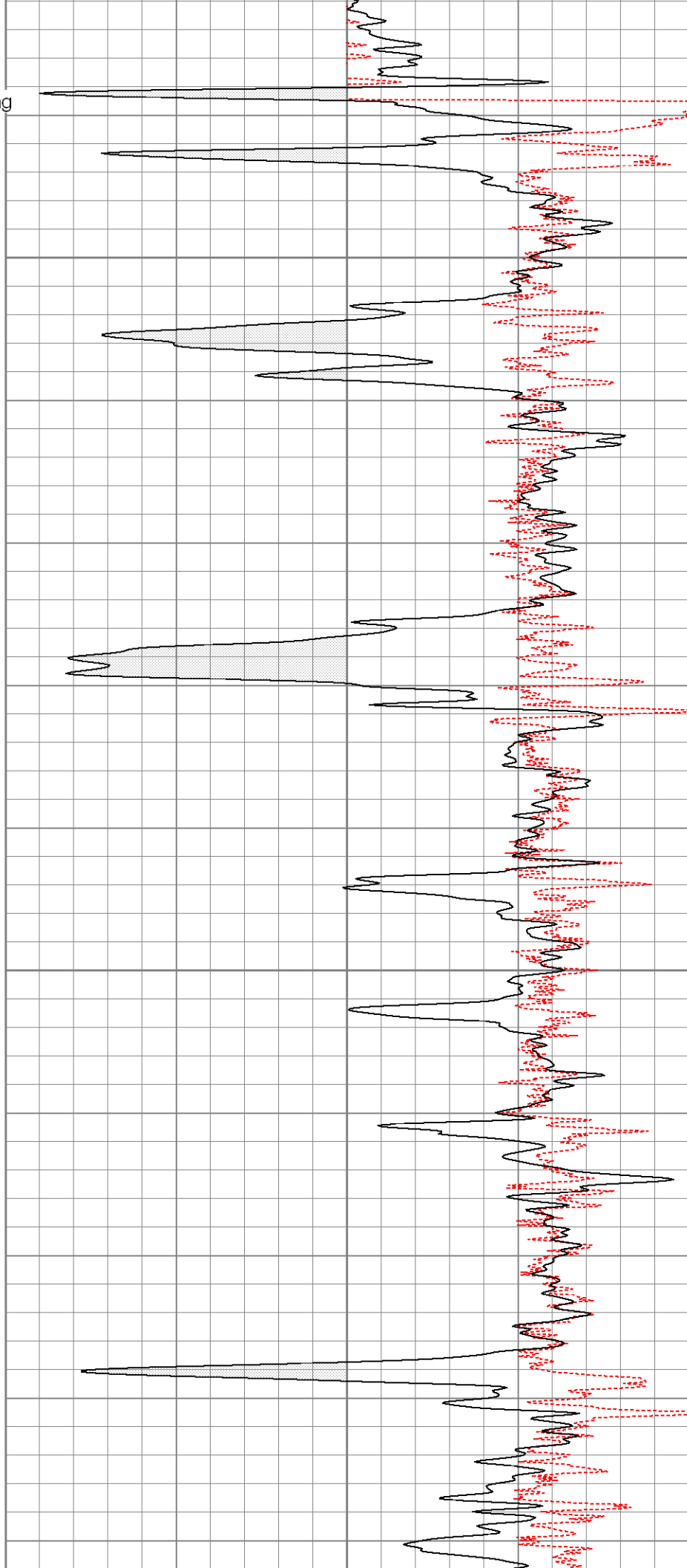


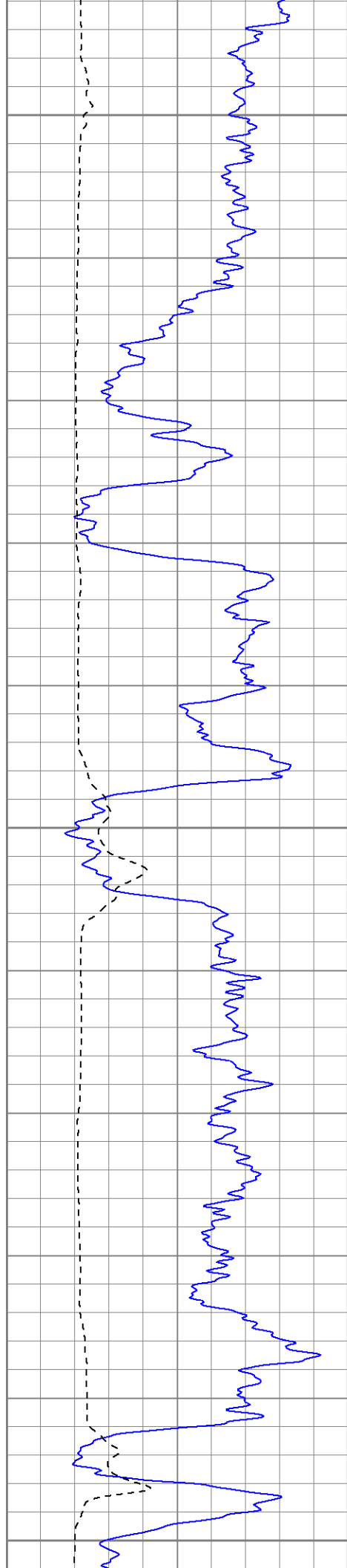


Surface Casing

500

550

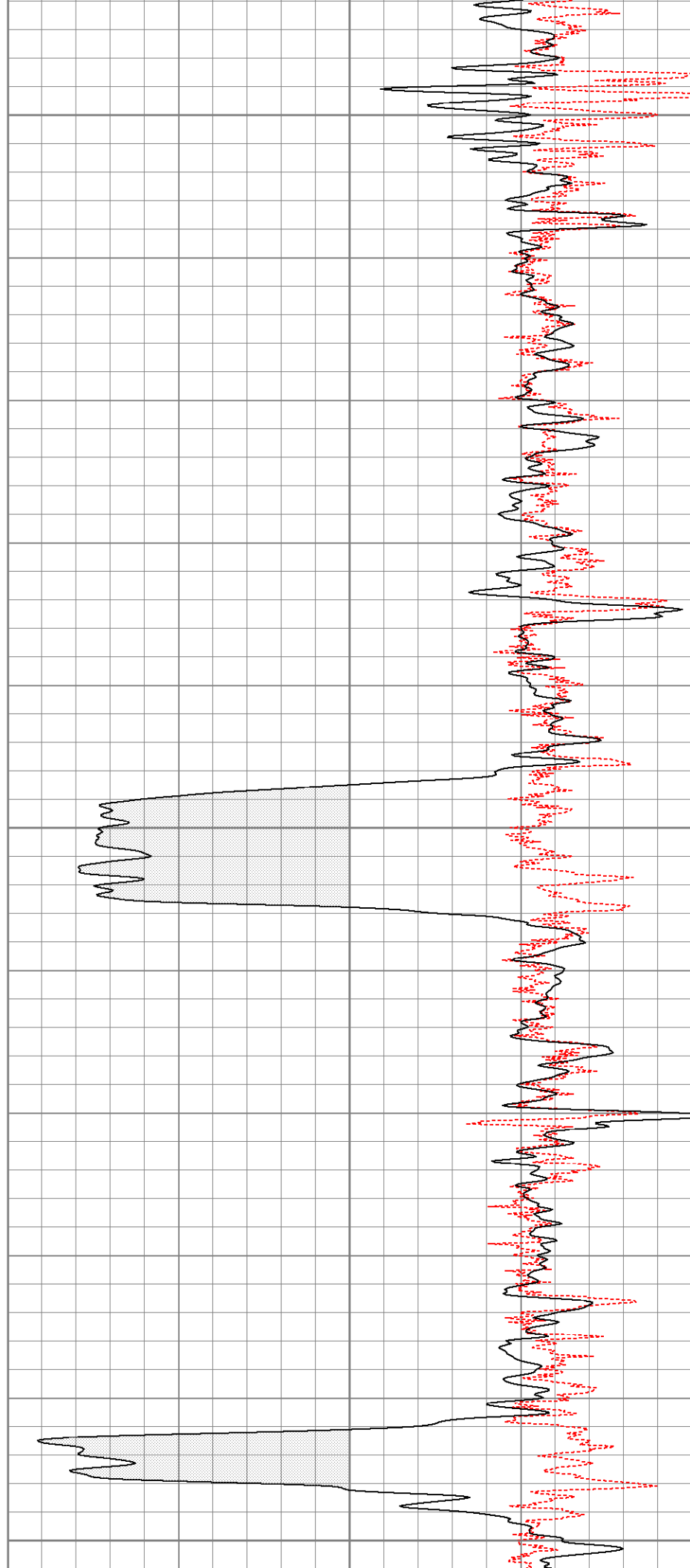


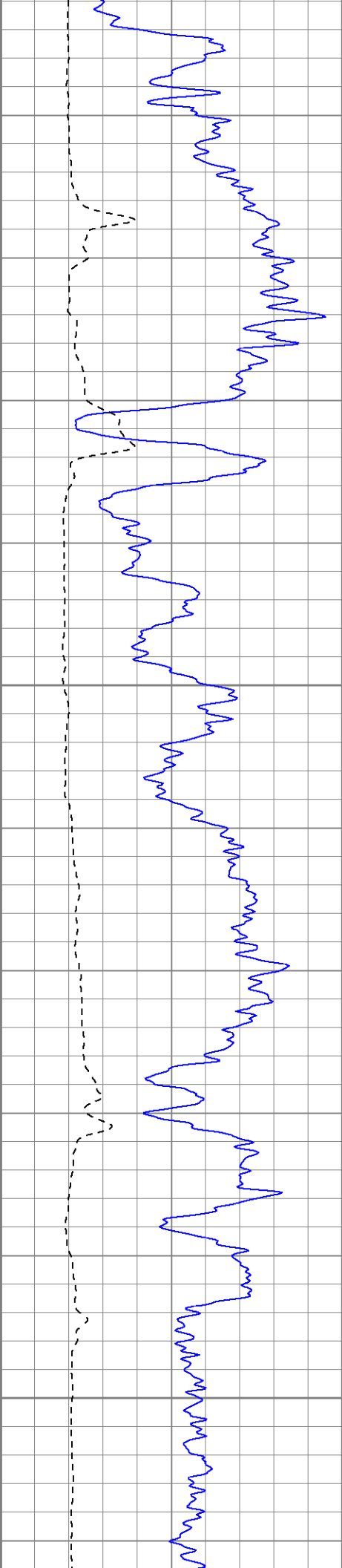


600

650

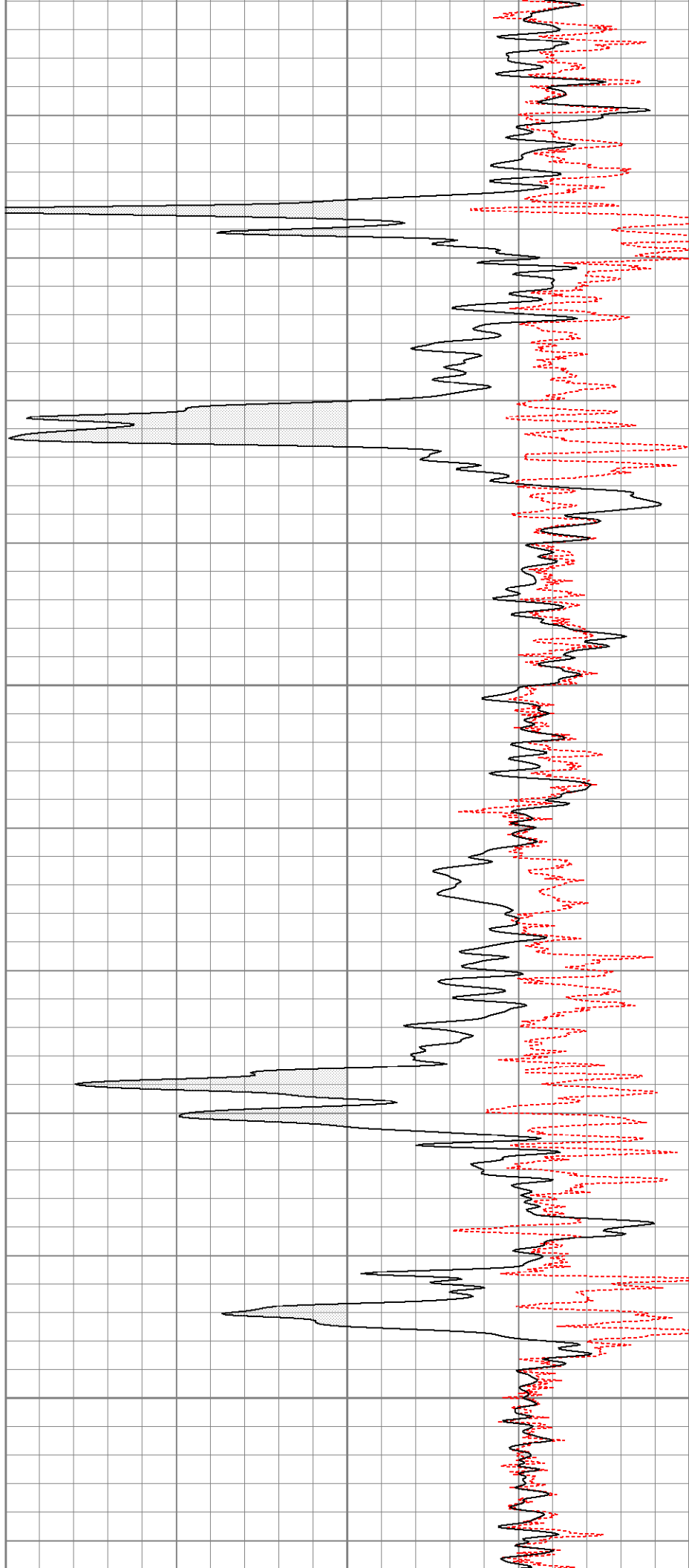
700

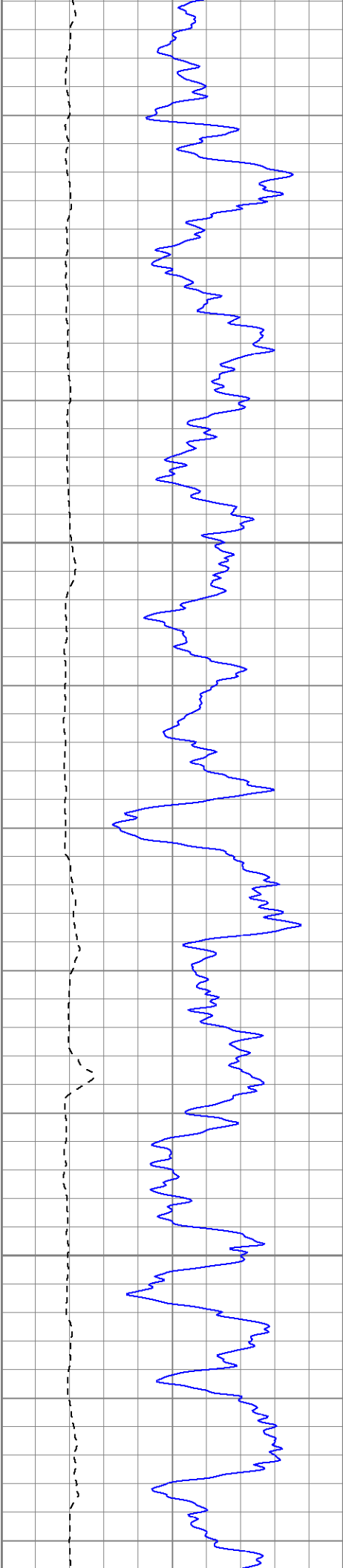




750

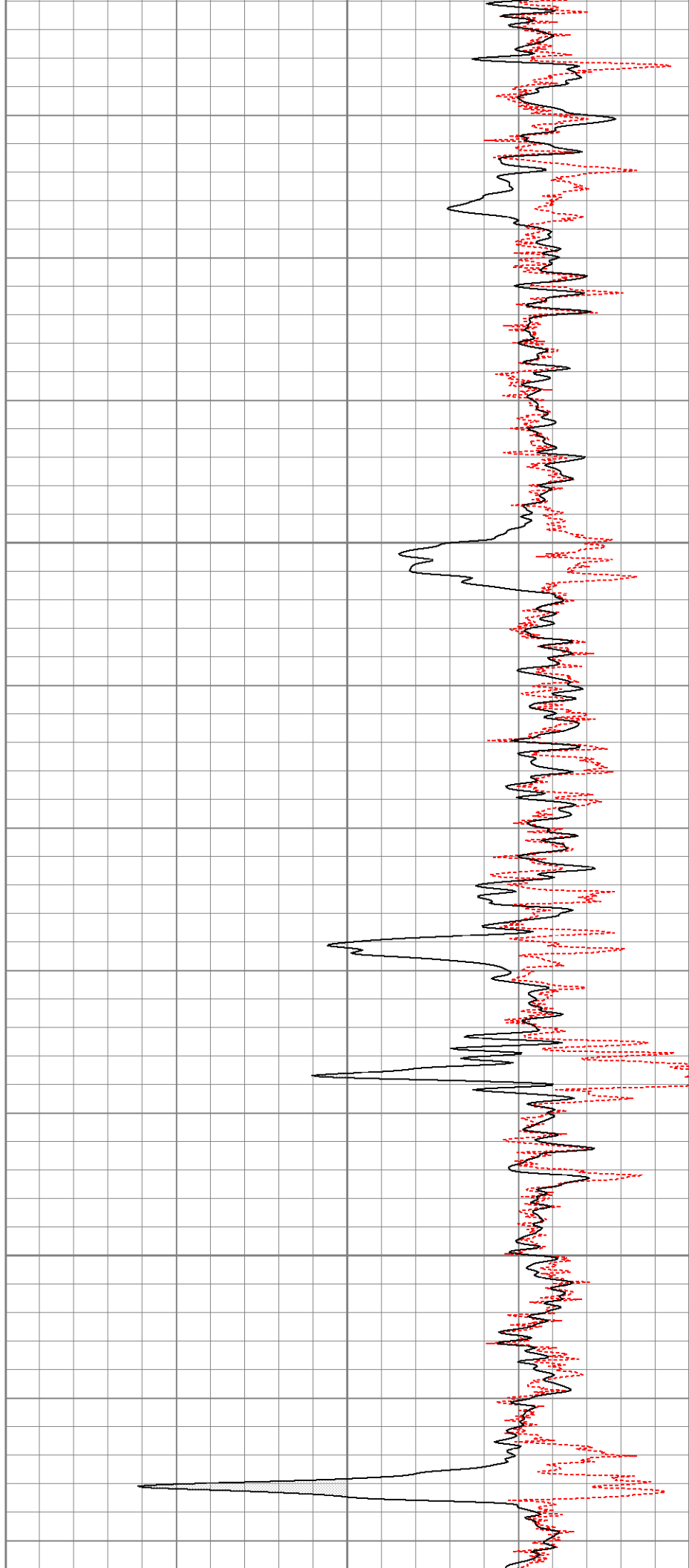
800

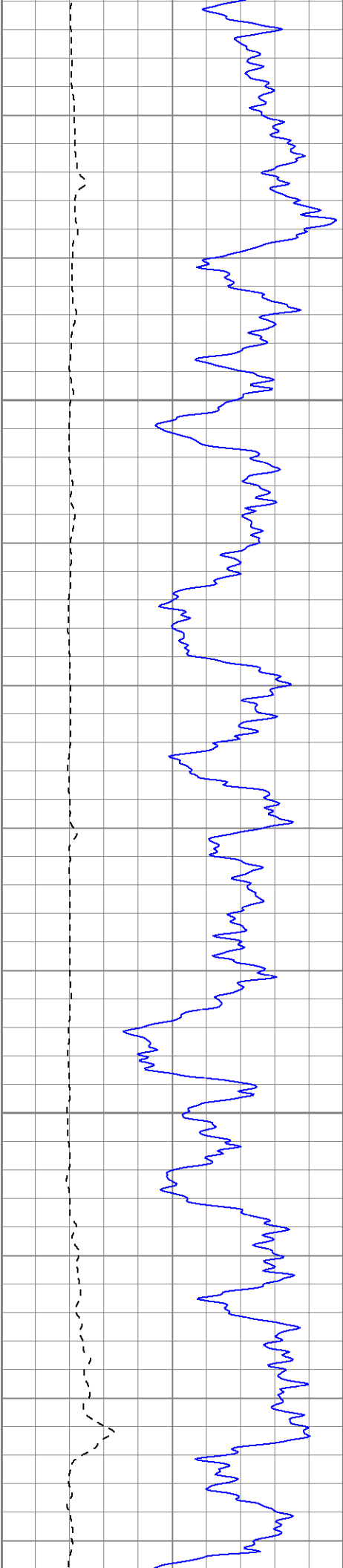




850

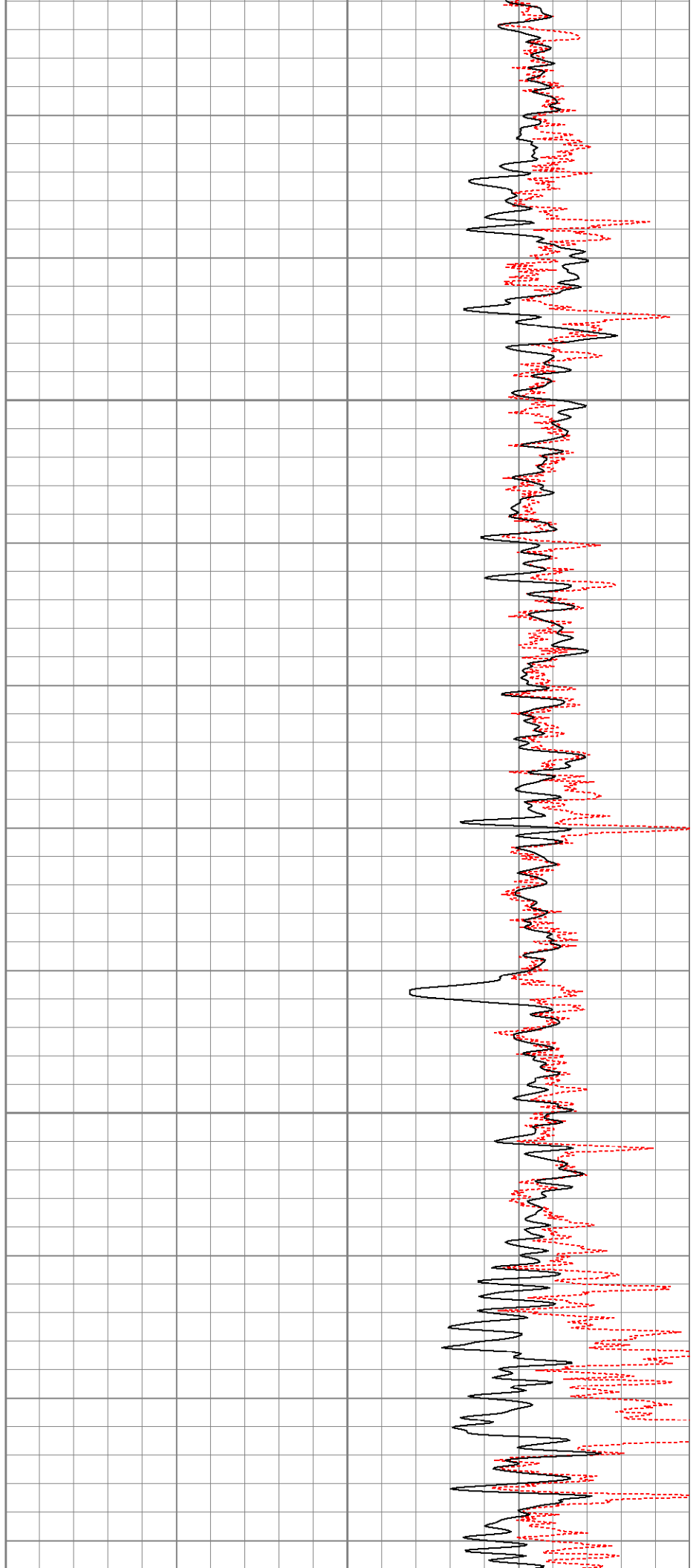
900

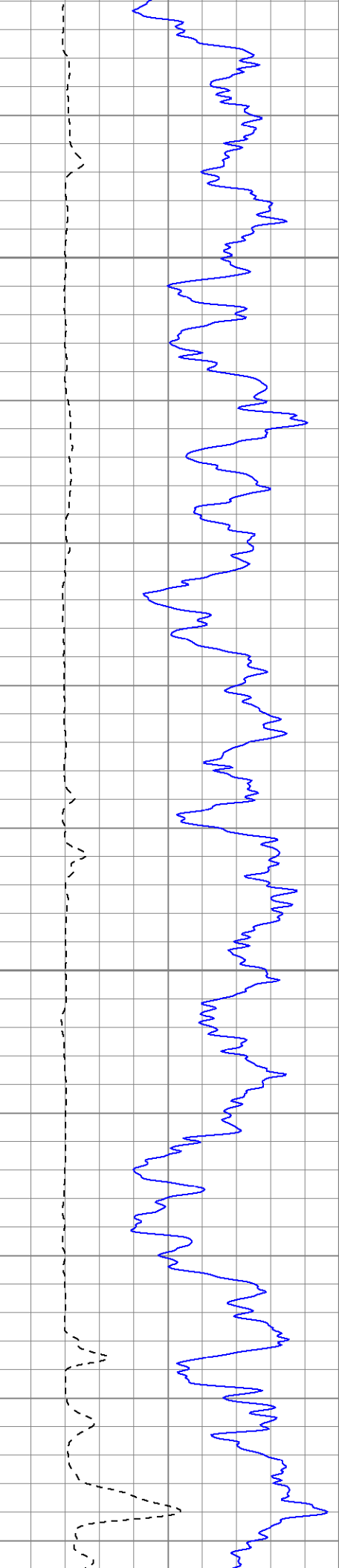




950

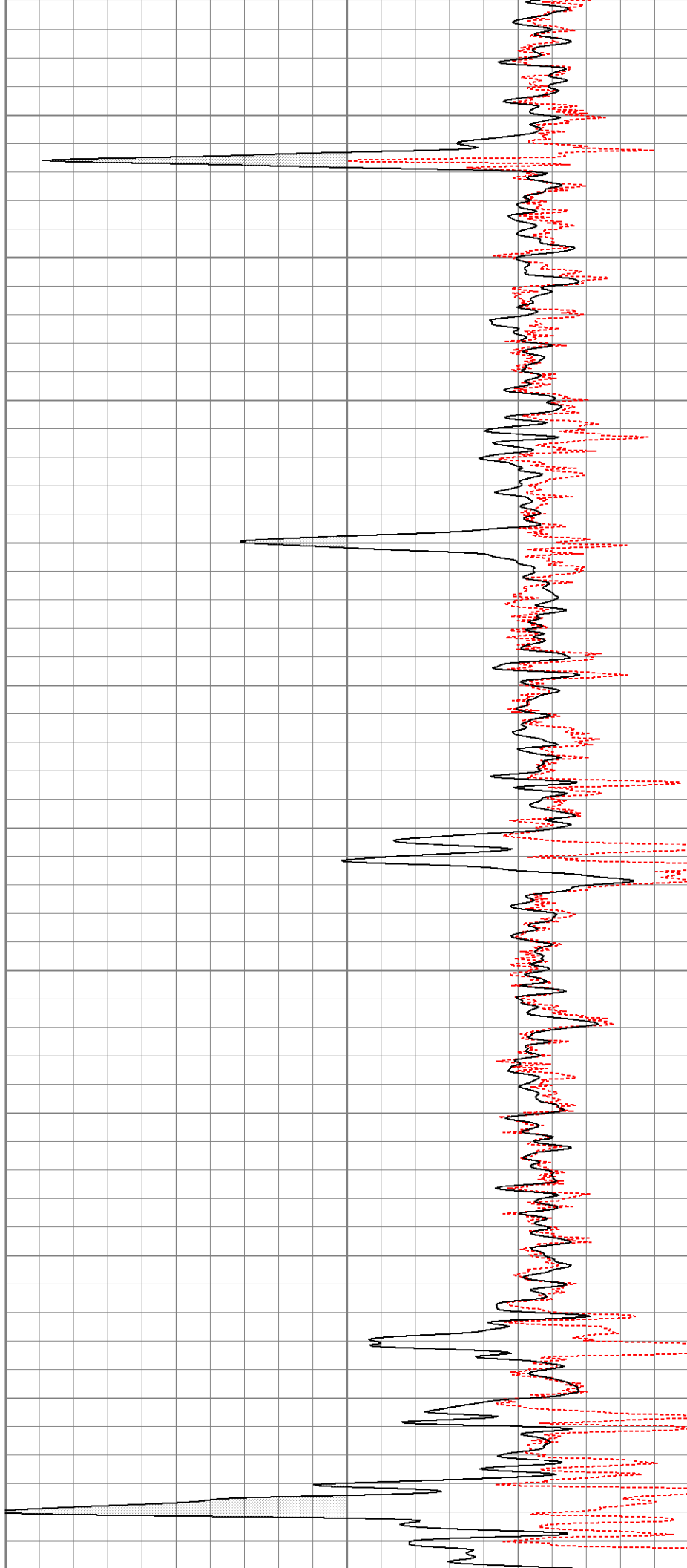
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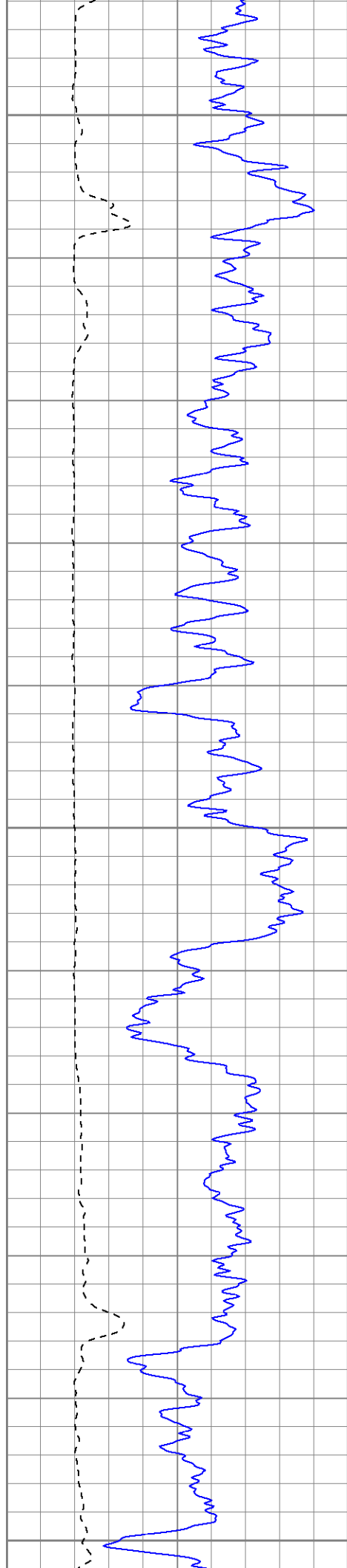




1050

1100

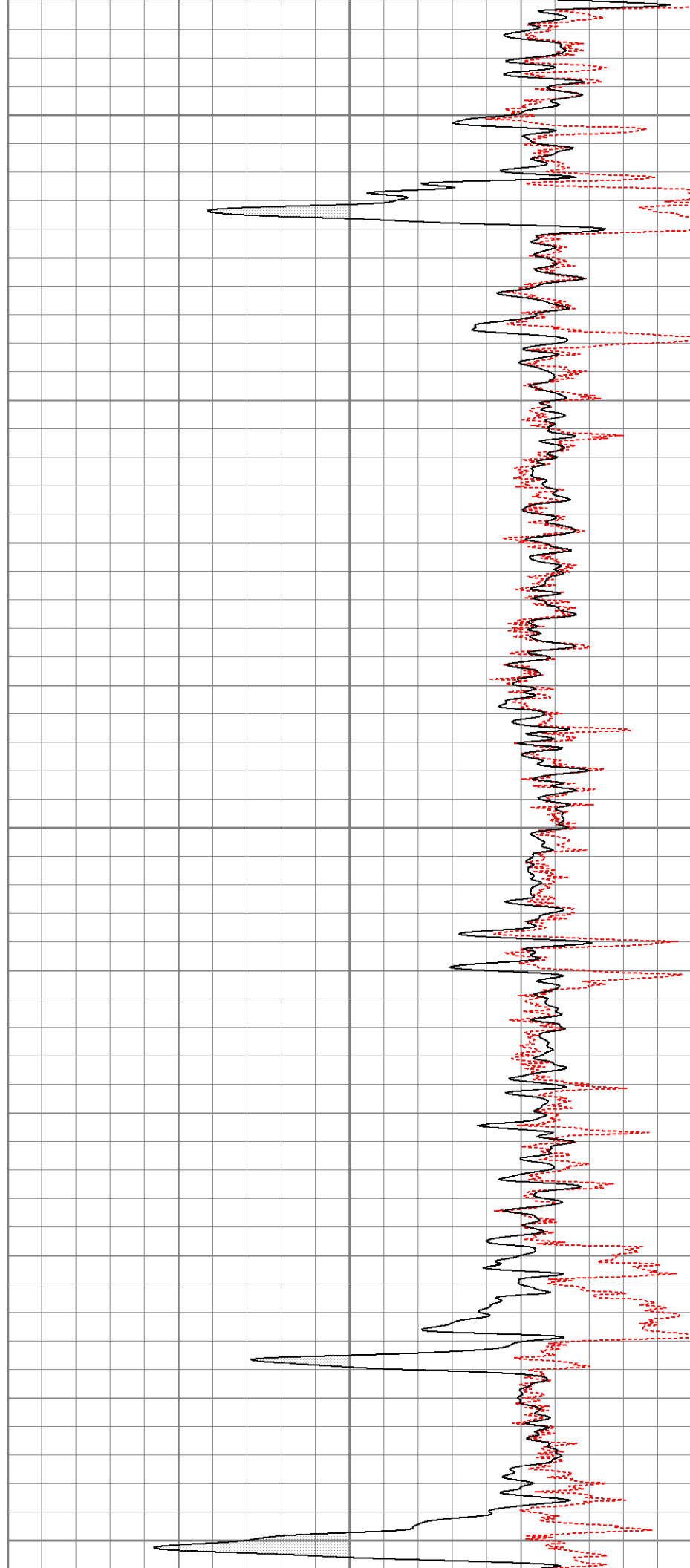


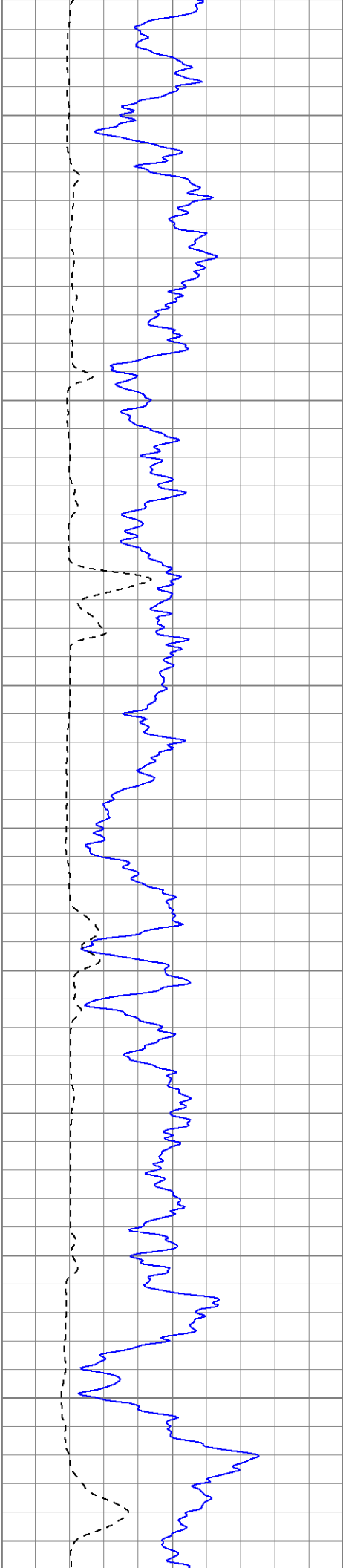


1150

1200

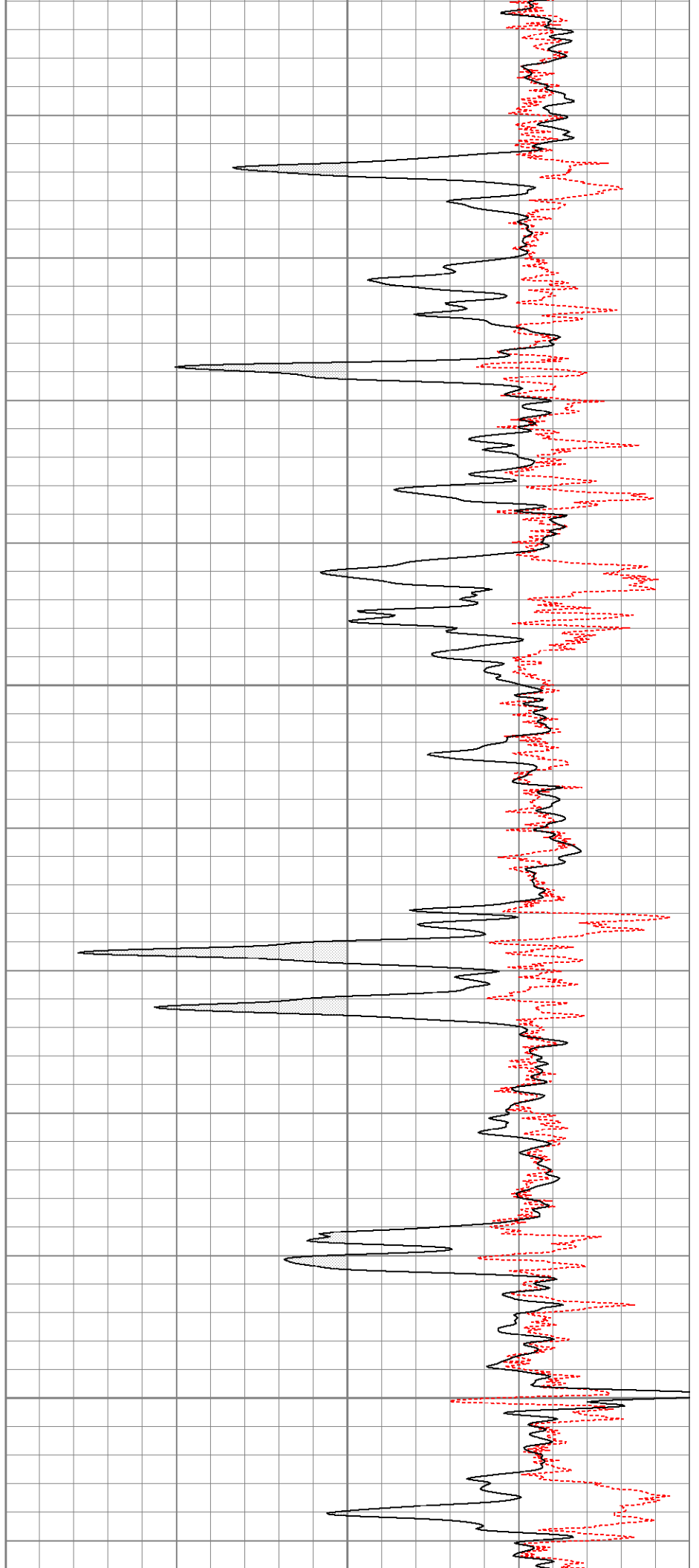
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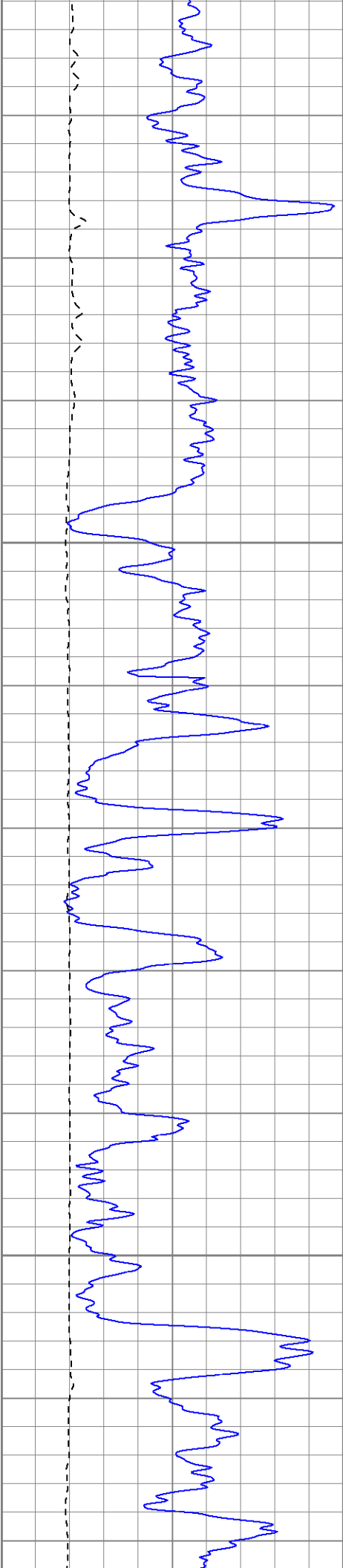




1300

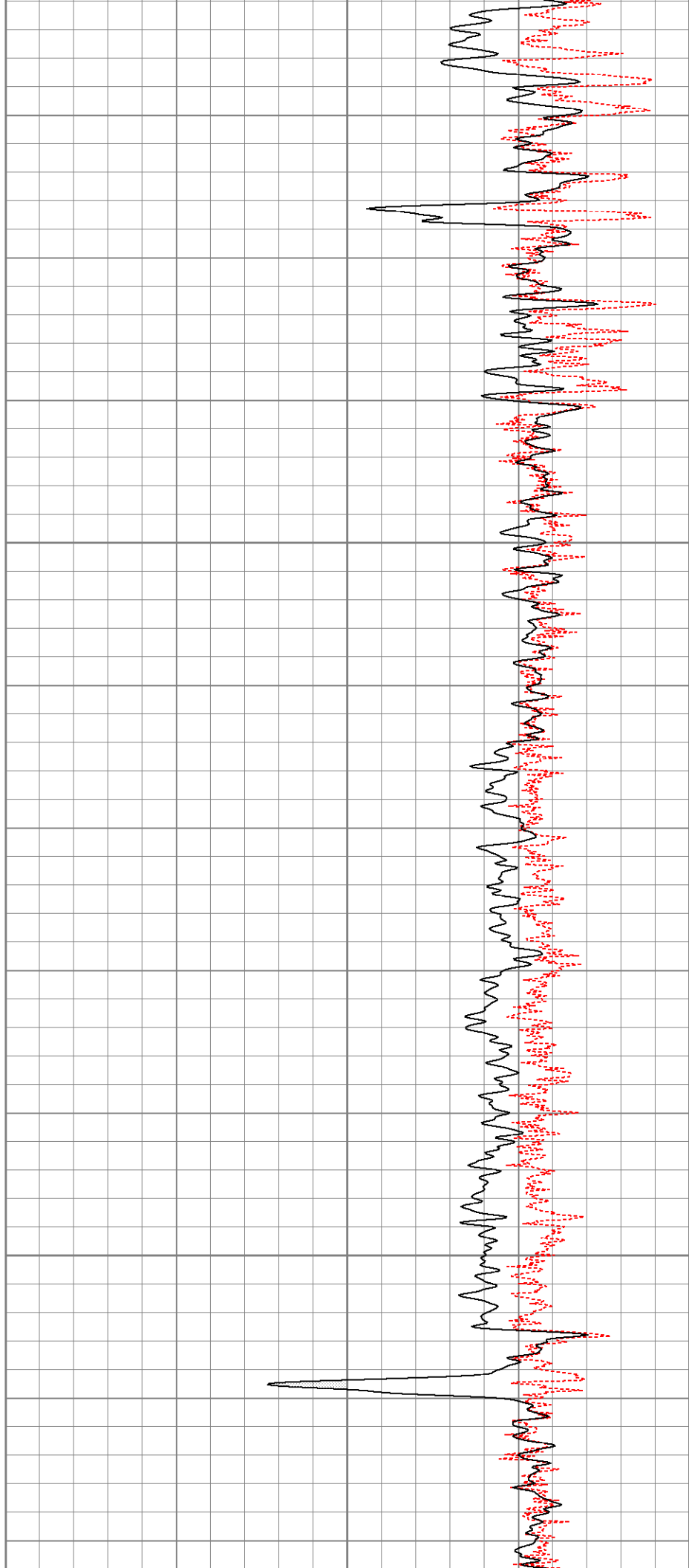
1350

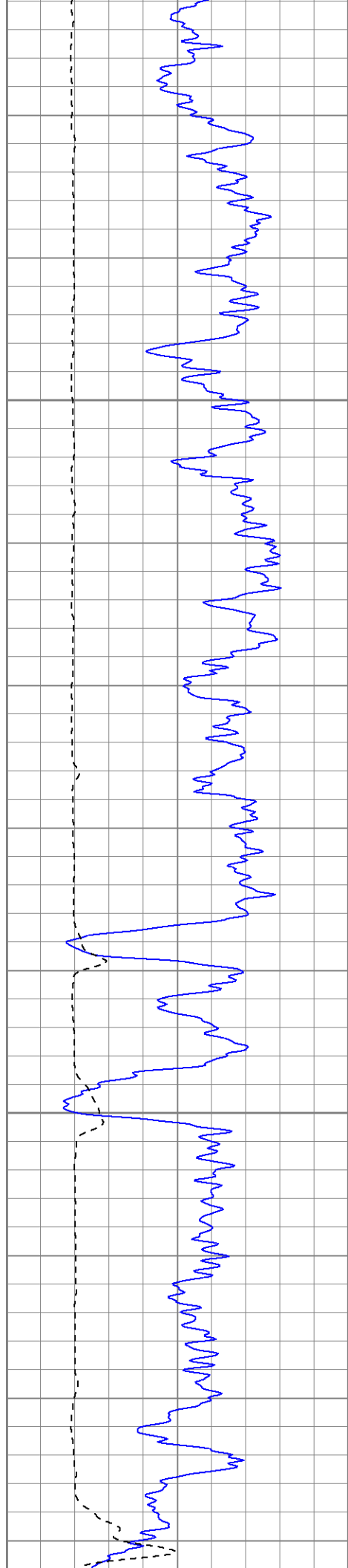




1400

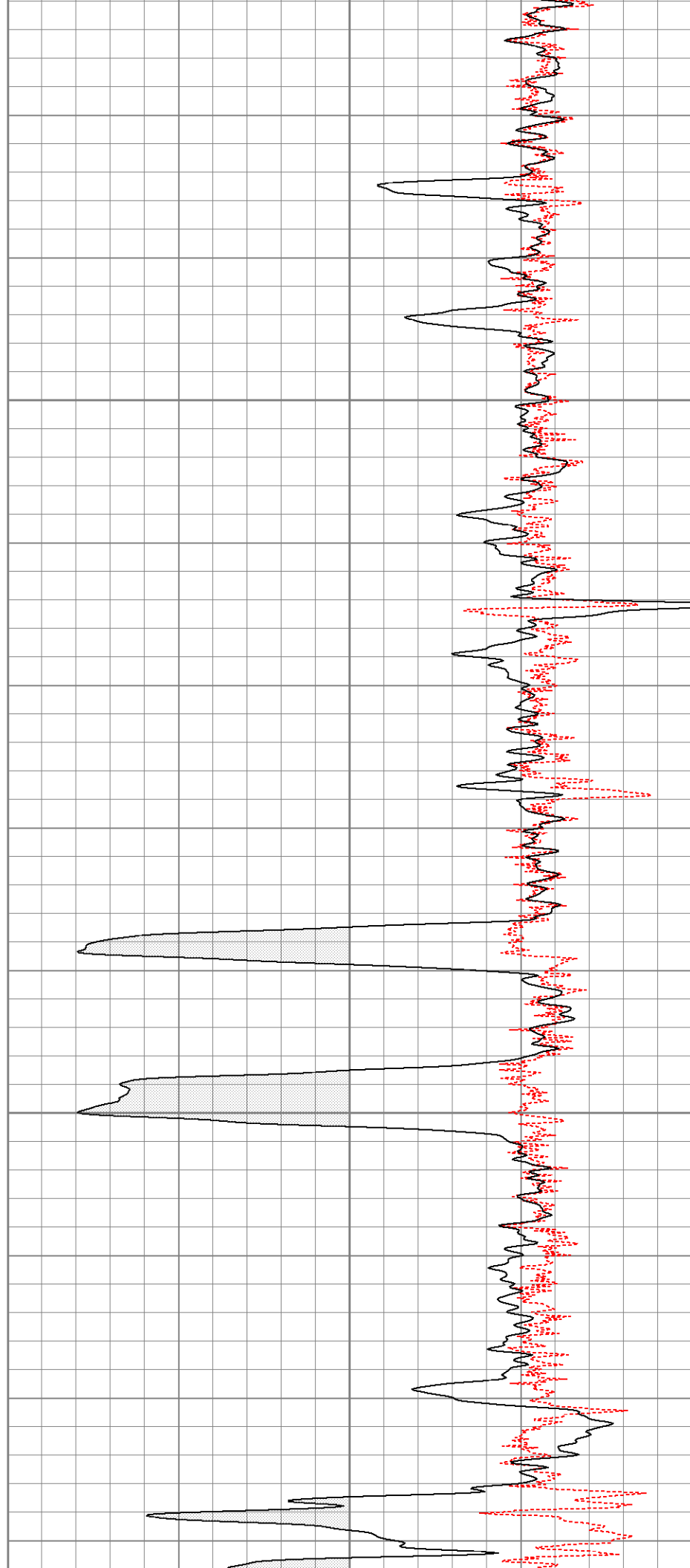
1450

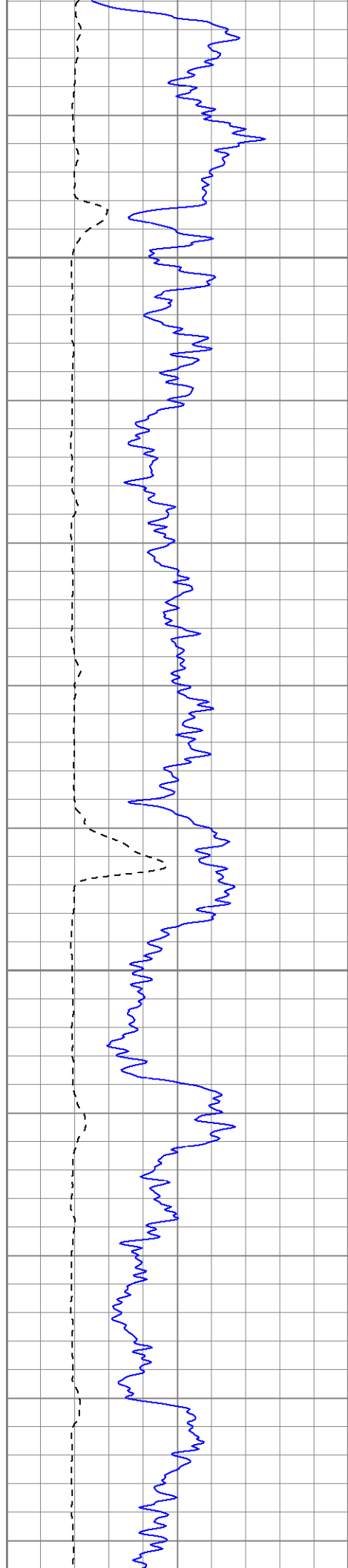




1500

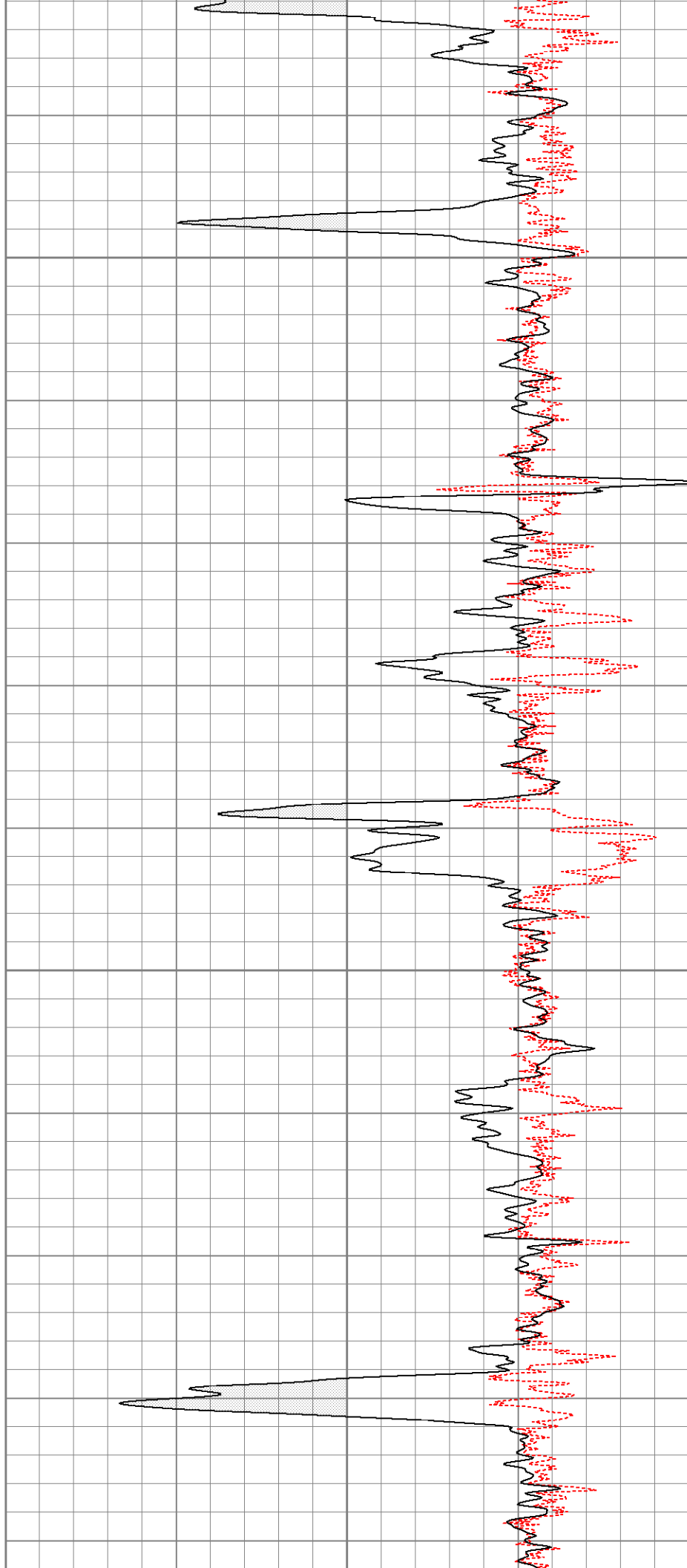
1550

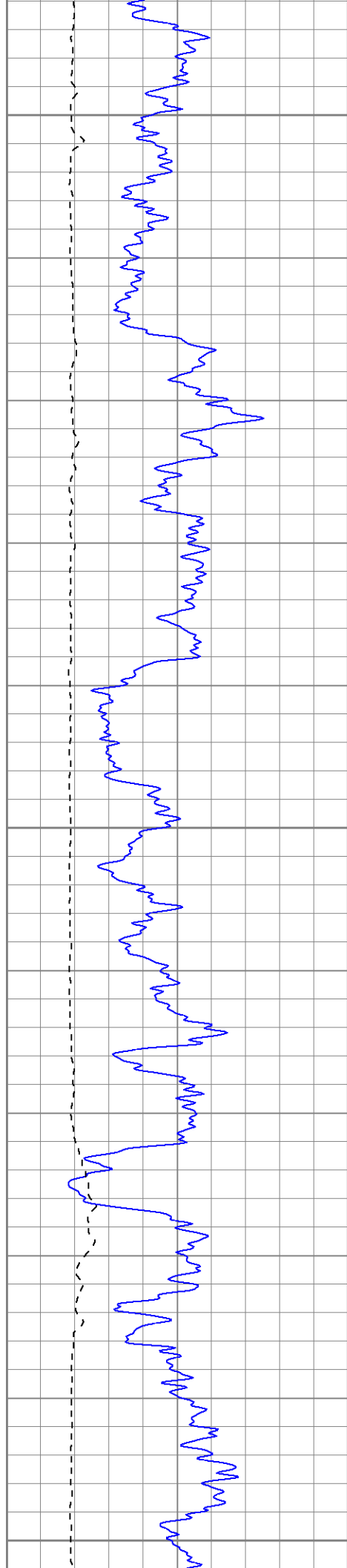




1600

1650

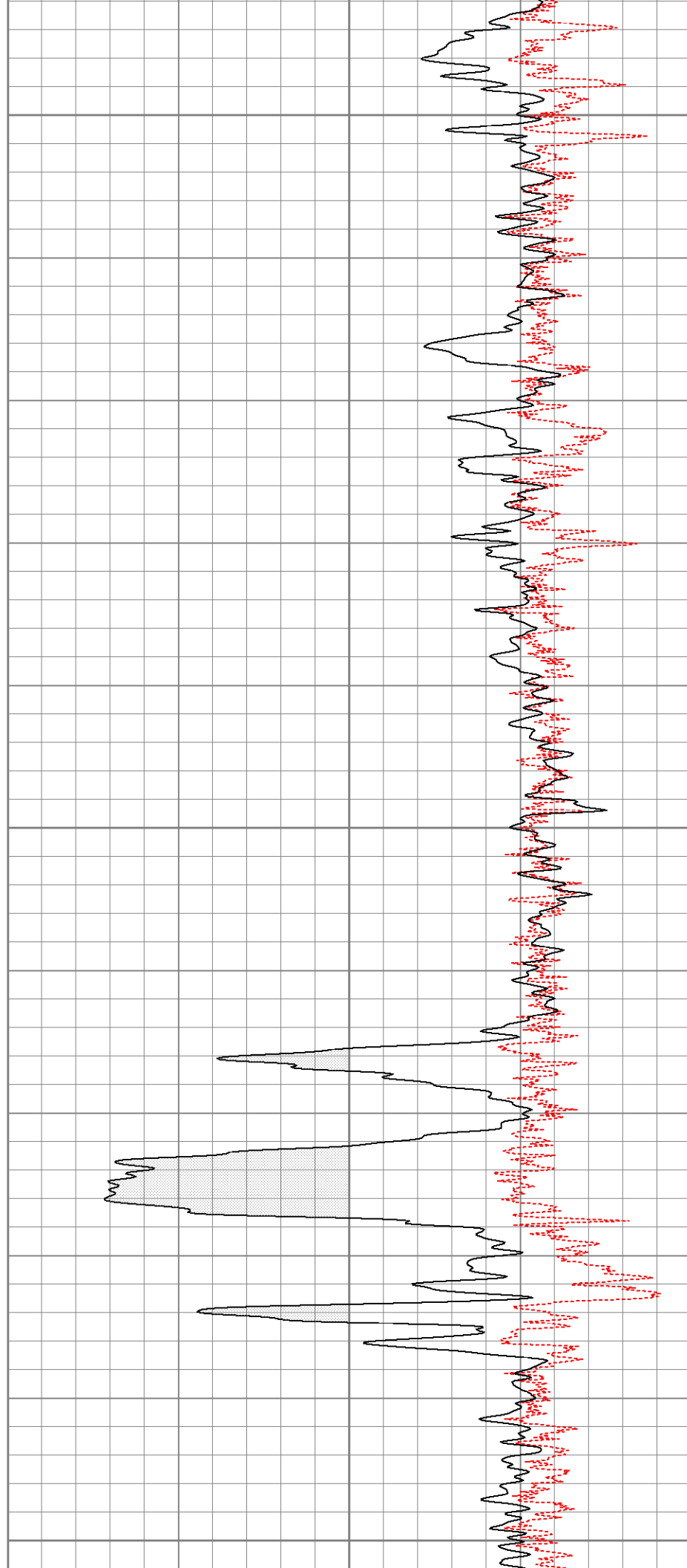


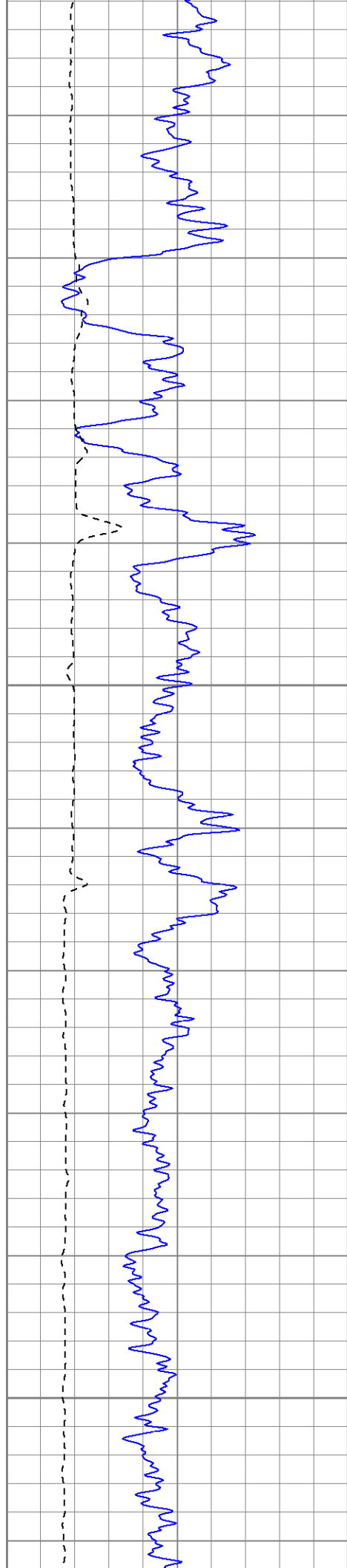


1700

1750

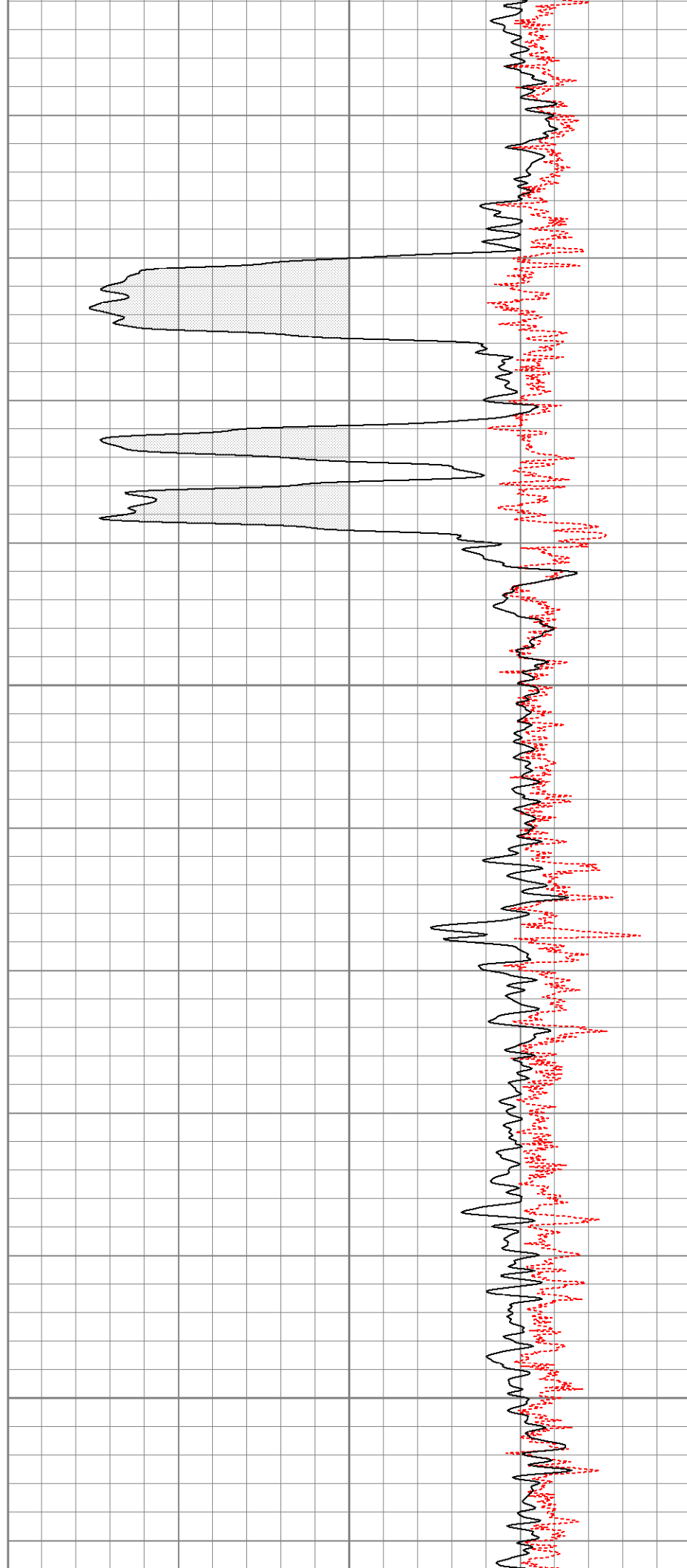
1800

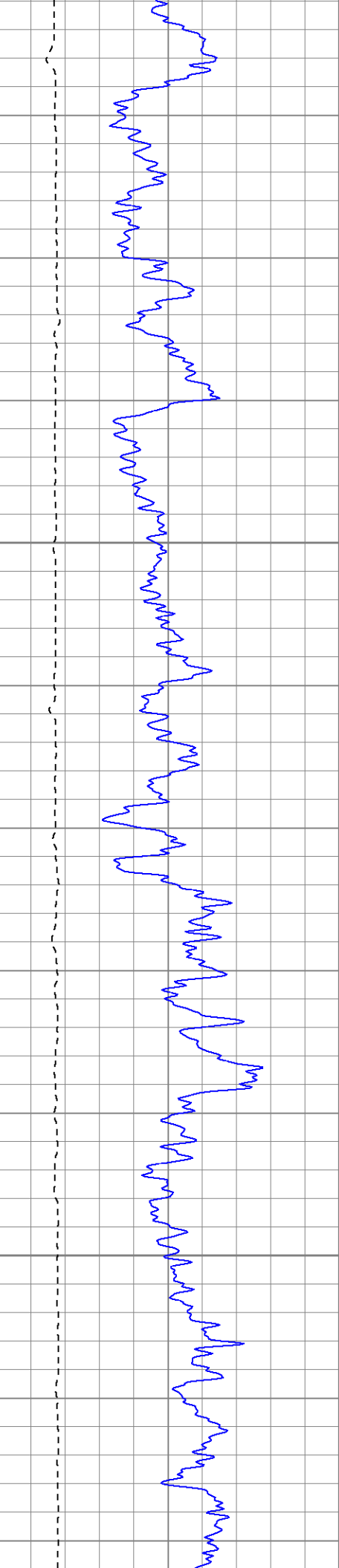




1850

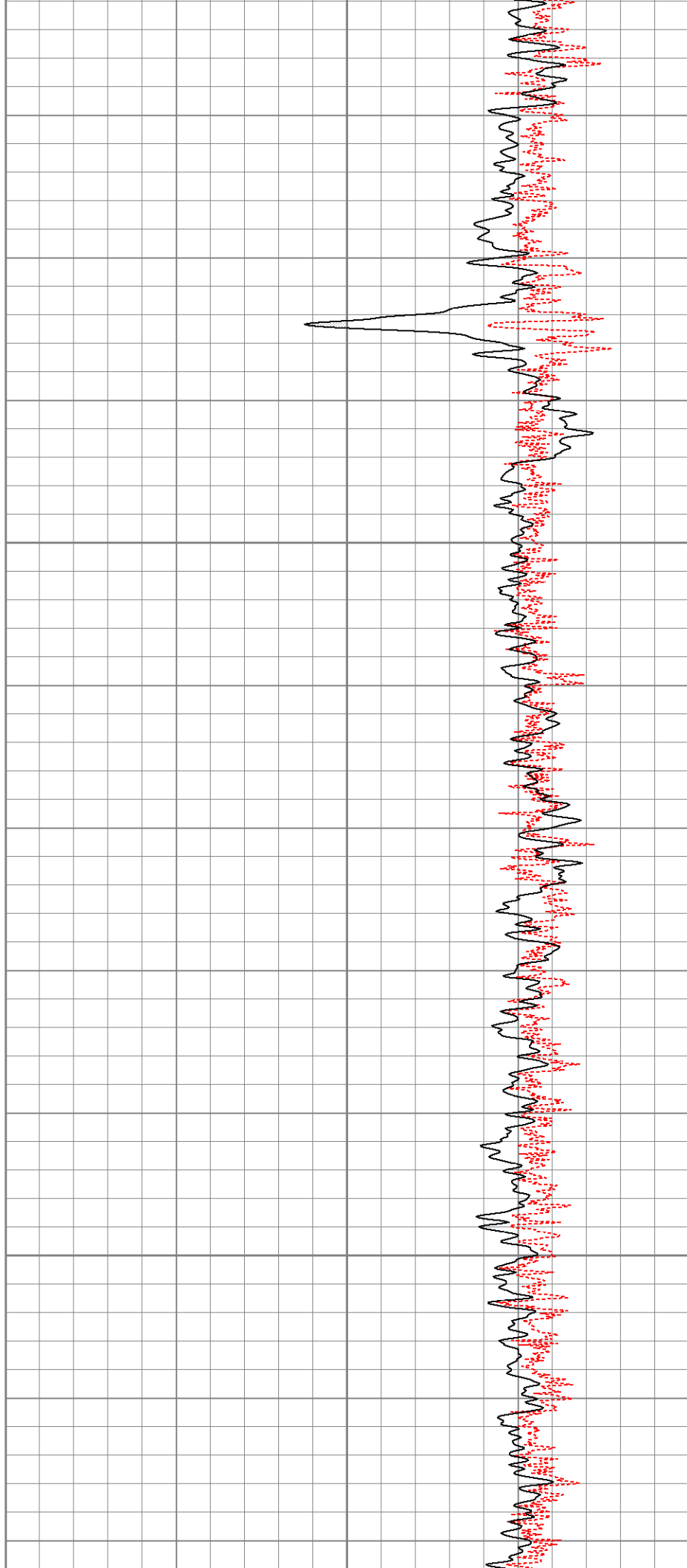
1900

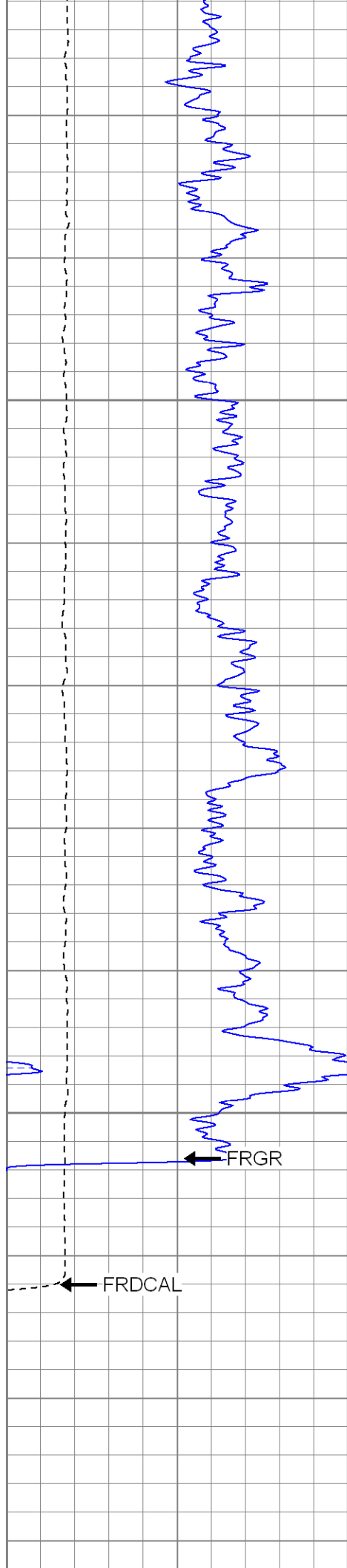




1950

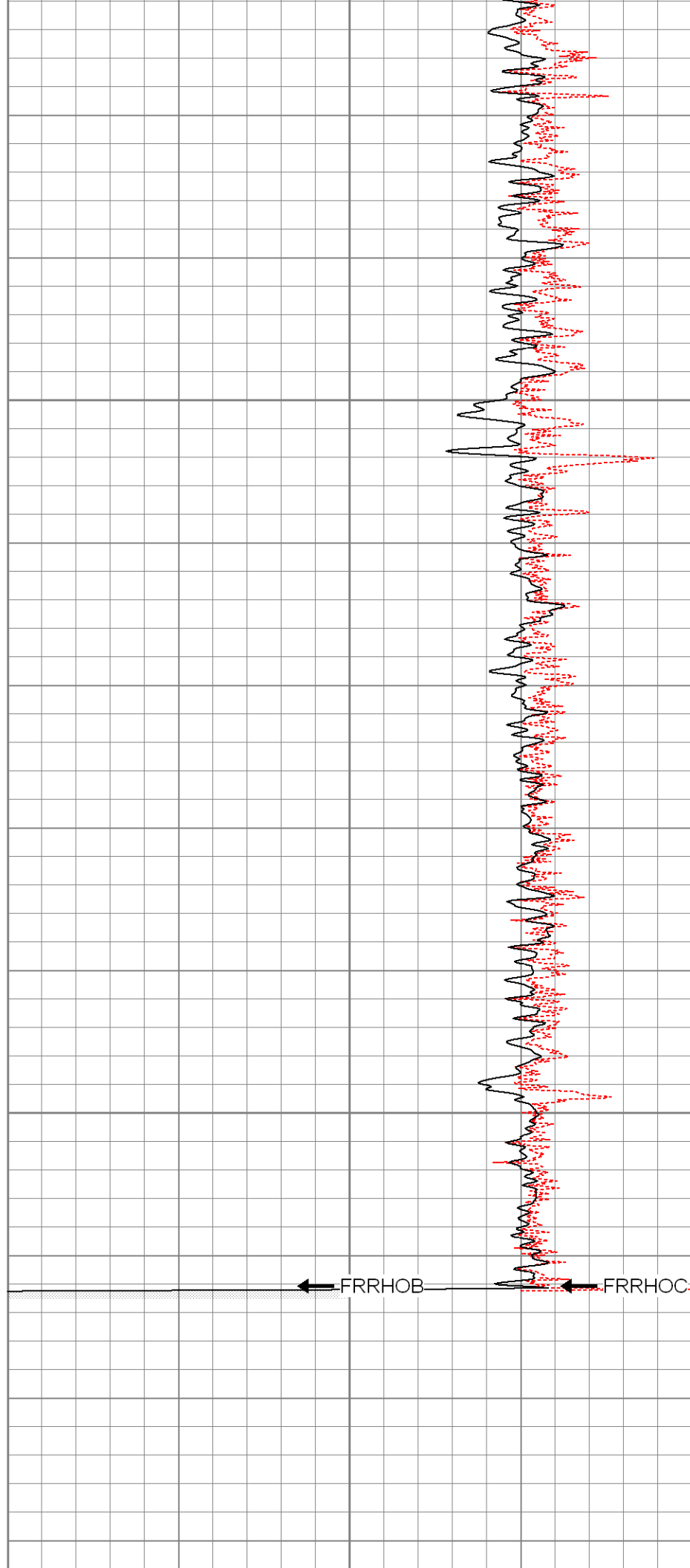
2000





2050

2100



[illegible]

Calibration Report

```
Database File:      xtoge3303.db
Dataset Pathname:  pass1
Dataset Creation:   Mon Jul 07 18:29:23 2008 by Log Open-Cased 070814
```

Dual Induction Calibration Report

Serial-Model: 20017-P
Surface Cal Performed: Mon Jul 07 18:03:18 2008
Downhole Cal Performed: Mon Jul 07 18:03:22 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.013	0.673	V	0.000	500.000	mmho-m	758.245	-10.209
Medium	-0.009	0.777	V	0.000	550.000	mmho-m	699.139	6.426
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.014	0.674	V	0.000	500.000	mmho-m	758.497	-10.898
Medium	-0.010	0.778	V	0.000	500.000	mmho-m	634.960	6.127

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.245	500.171	mmho-m	0.685	500.518	mmho-m	1.000	0.440
Medium	-0.427	550.627	mmho-m	-0.320	550.218	mmho-m	0.999	0.106
Shallow	0.047	5.403	V	10.000	1000.000	Ohm-m	124.000	2.000

Temperature Calibration Report

Serial Number: 2542T
Tool Model: CDLP
Performed: Fri Jun 27 10:52:07 2008

Reference	Reading
-----------	---------

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 Performed: Thu Jun 26 08:09:20 2008


Master Calibration

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:	Thu Jun 26 12:08:49 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	40.63		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe Epithermal	4.92	3.63	85.00
GR	35.10		GR-OH (2001) 2001	3.56	3.25	40.00
			CDL-T2 (2542) Gearhart	9.29	4.00	201.00
LSD	26.35		TEMP-CDLP (2542T) Probe Density/Temp	0.01	1.00	1.00
DCAL	26.14					
SSD	25.89					
TEMP	25.71					

CILD	16.29		24.63	4.00	300.00
SP	16.29				
CILM	12.54				
RLL3	3.21				
Dataset: xtoge3303.db: field/well/run1/pass1 Total Length: 43.16 ft Total Weight: 632.00 lb O.D. 4.00 in					