

**COMPENSATED DENSITY
NEUTRON
LOG**

Company	Pioneer Natural Resources	Company	Pioneer Natural Resources
Well	Talon 34-25 Tr	Well	Talon 34-25 Tr
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API #: 05 071 09847 00	Other Services	SIL
Permanent Datum	753' FSL & 1556' FEL	Elevation	
Log Measured From	SEC 25 TWP 32S RGE 68W	K.B. 8137'	
Drilling Measured From		D.F. -----	
		G.L. 8133'	
Date	7-31-11		
Run Number	One		
Depth Driller	2441'		
Depth Logger	2438'		
Bottom Logged Interval	2422'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 1106'		
Casing Logger	1104'		
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	6:30 P.M.		
Time Logger on Bottom	12:15 A.M.		
Maximum Recorded Temperature	90 DEG F		
Equipment Number	T590		
Location	Trinidad		
Recorded By	C. Sisneros		
Witnessed By	Mr. Ramon Gonzales		

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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

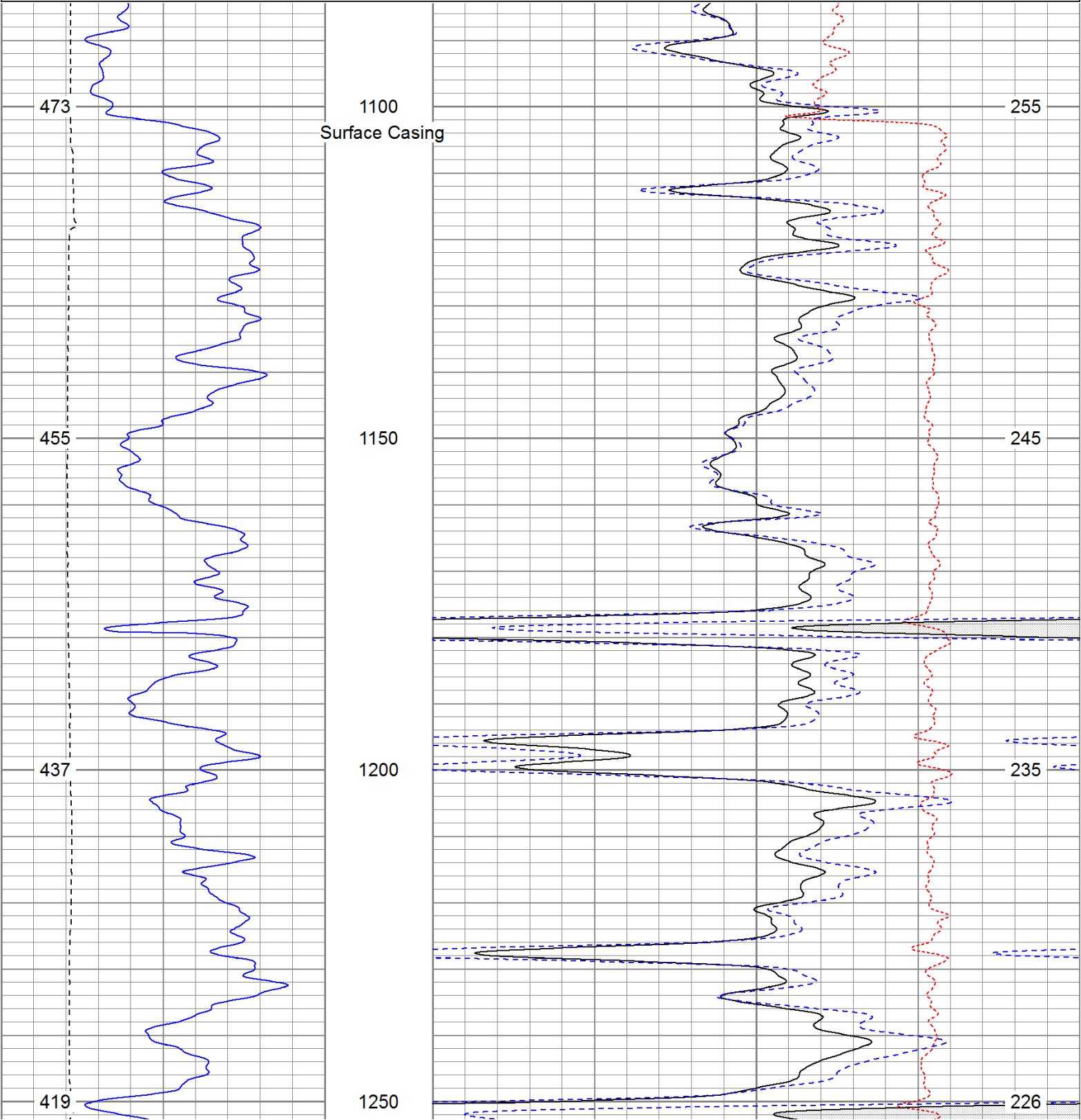
Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5.5" Casing.

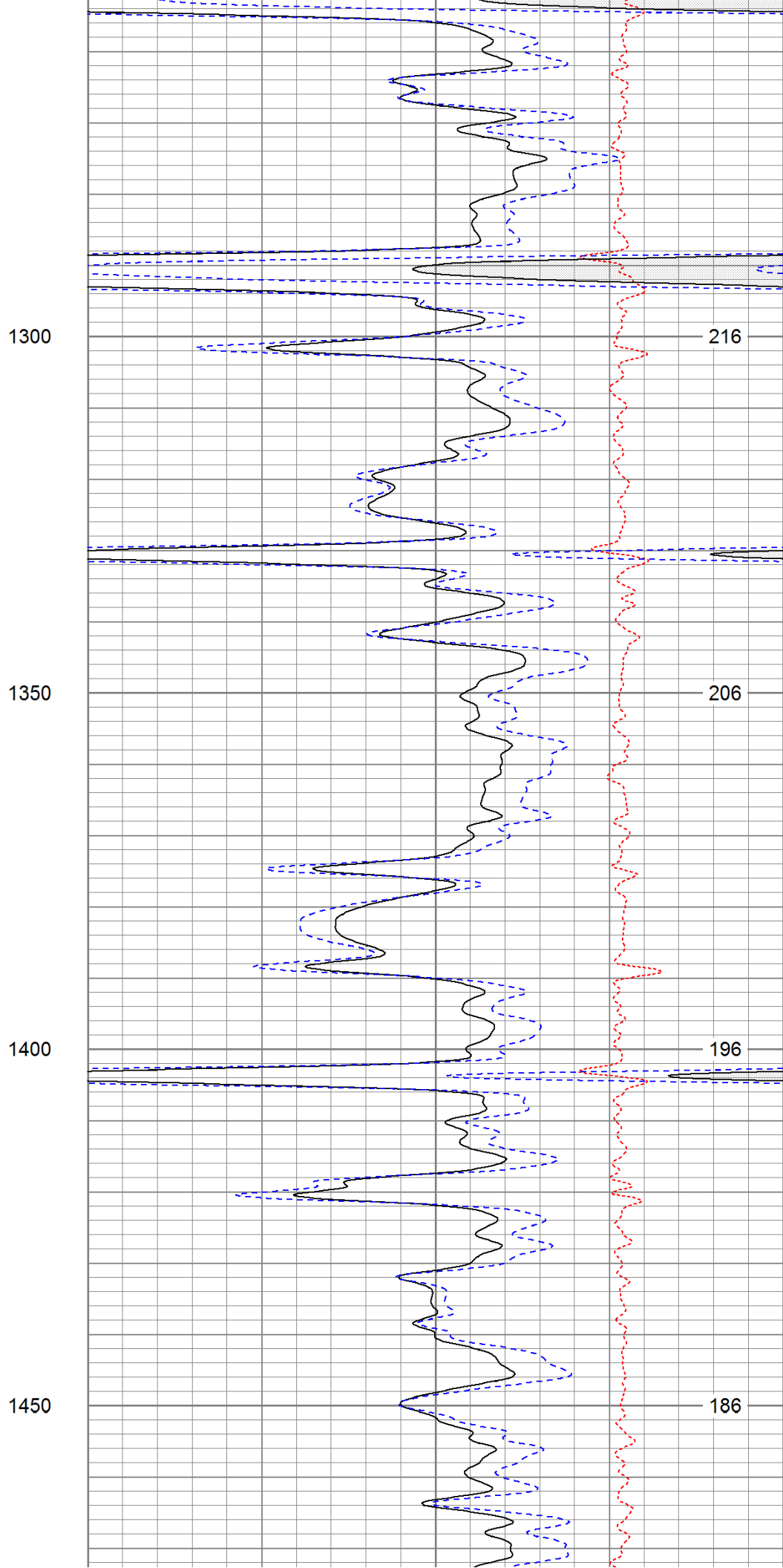
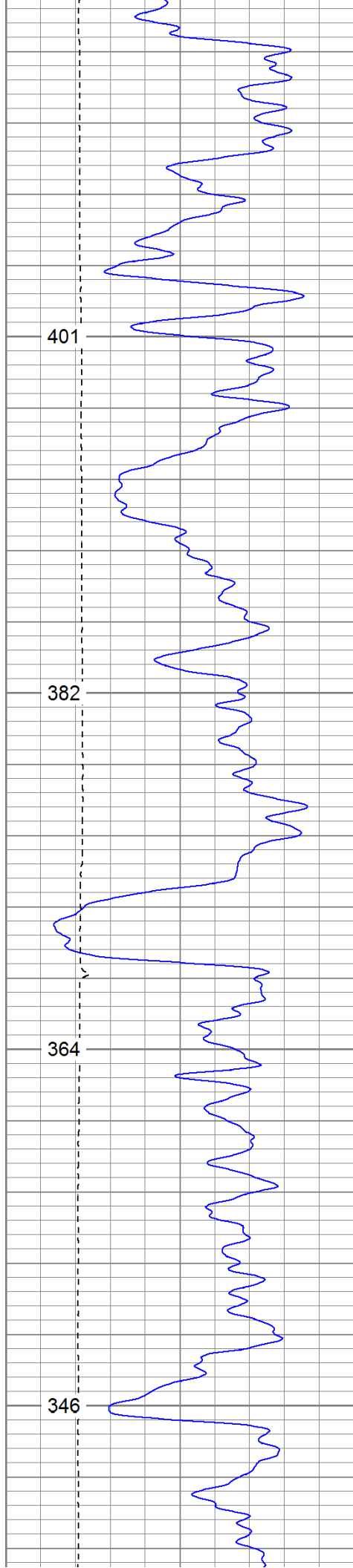
Directions:

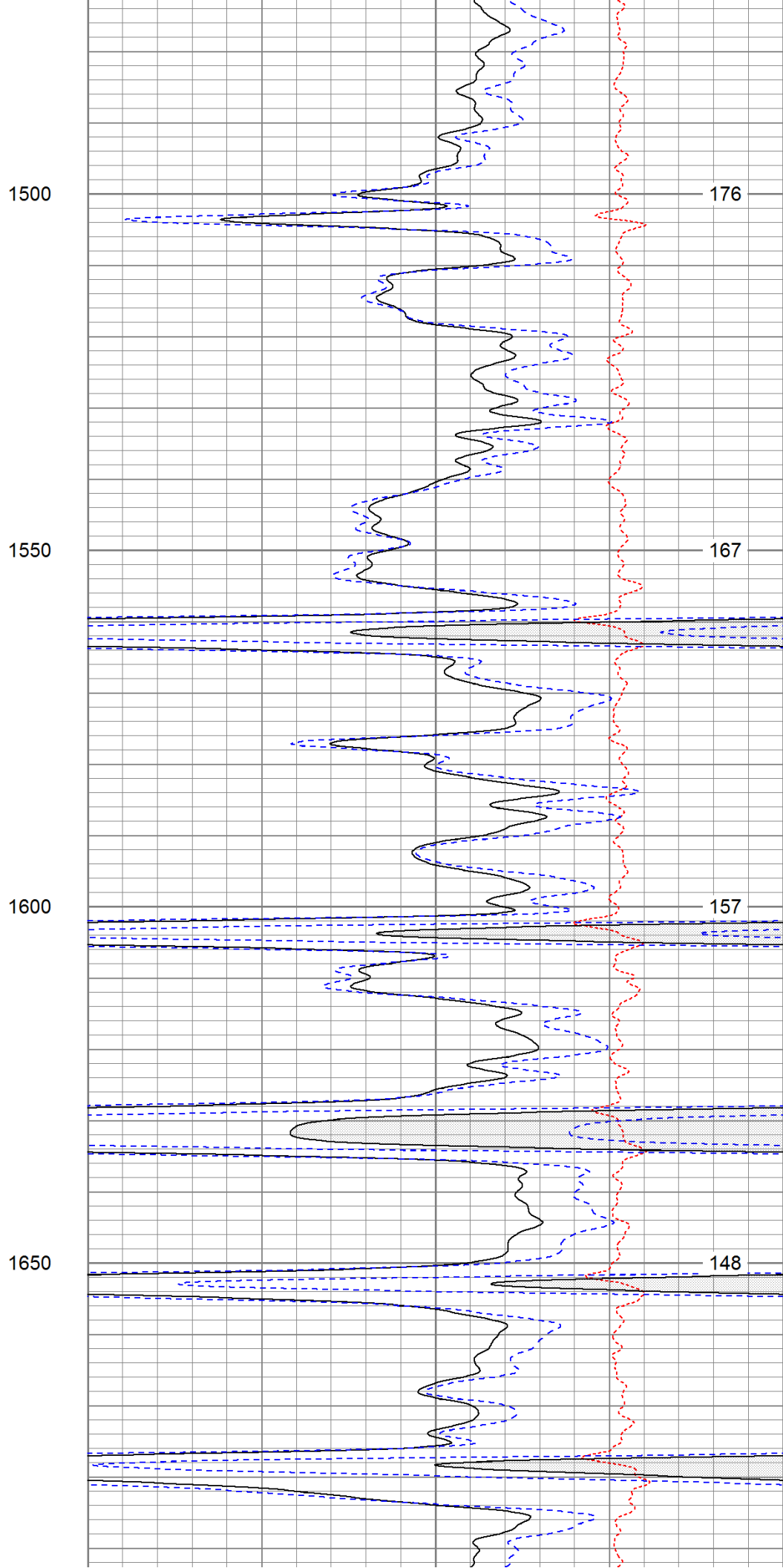
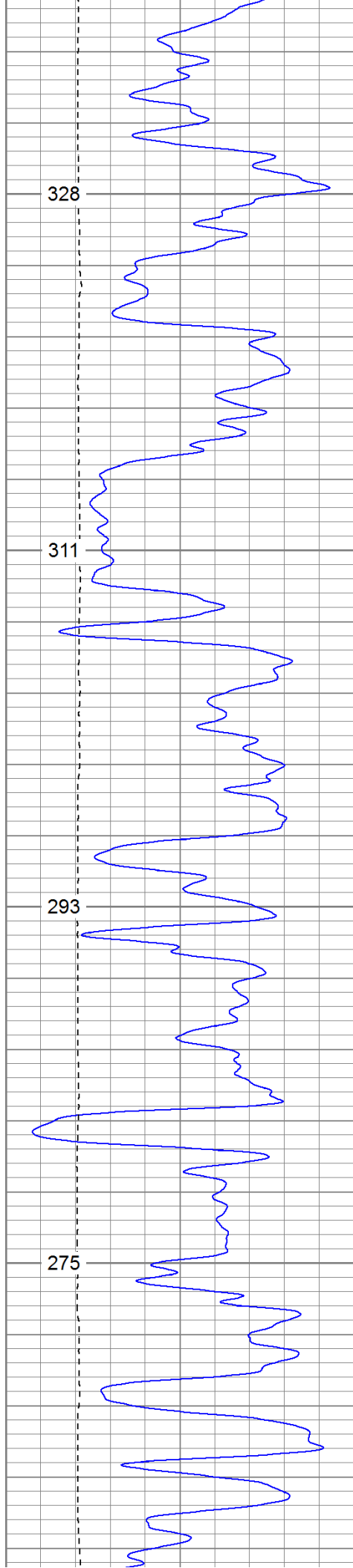
Database File: talontr.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Mon Aug 01 01:23:03 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

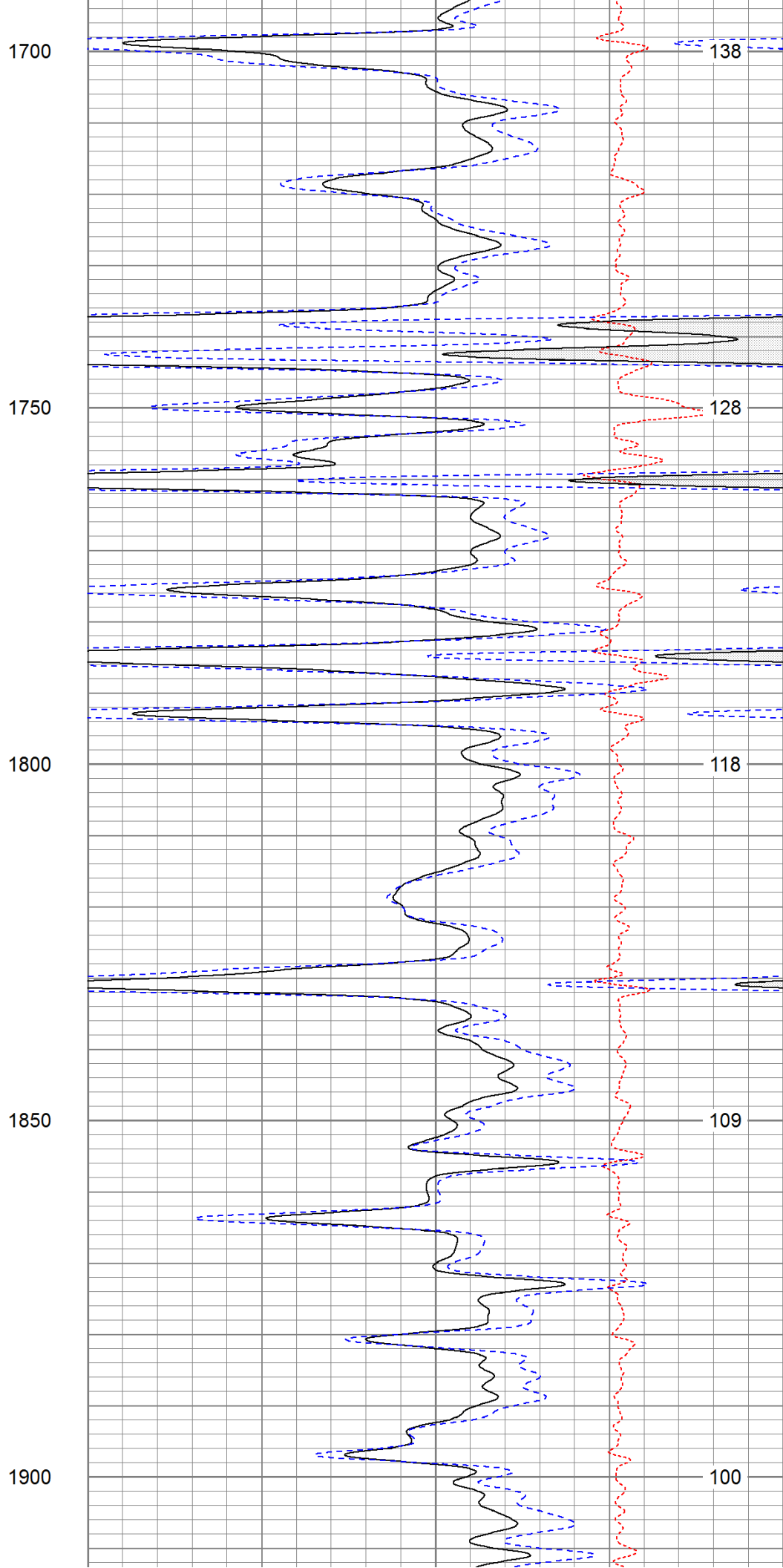
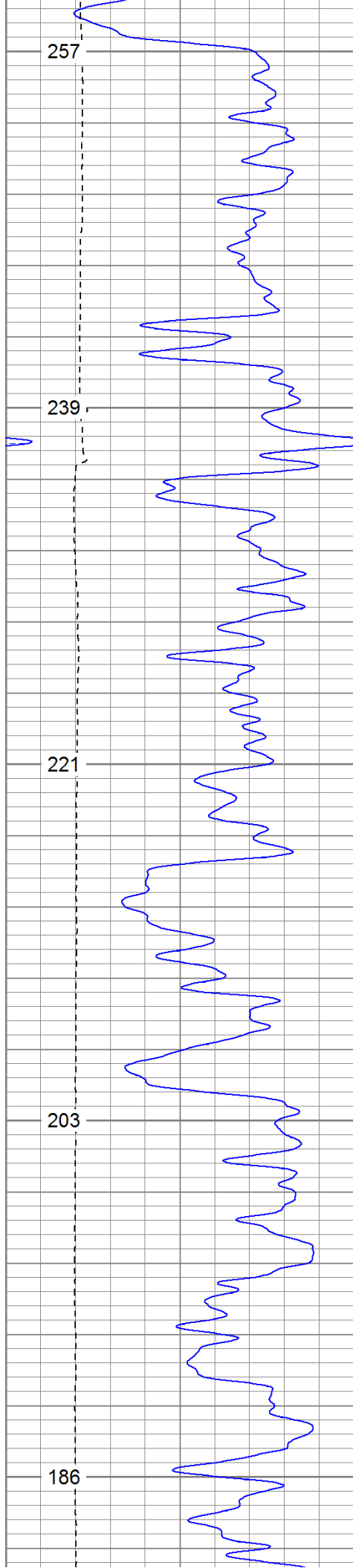
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

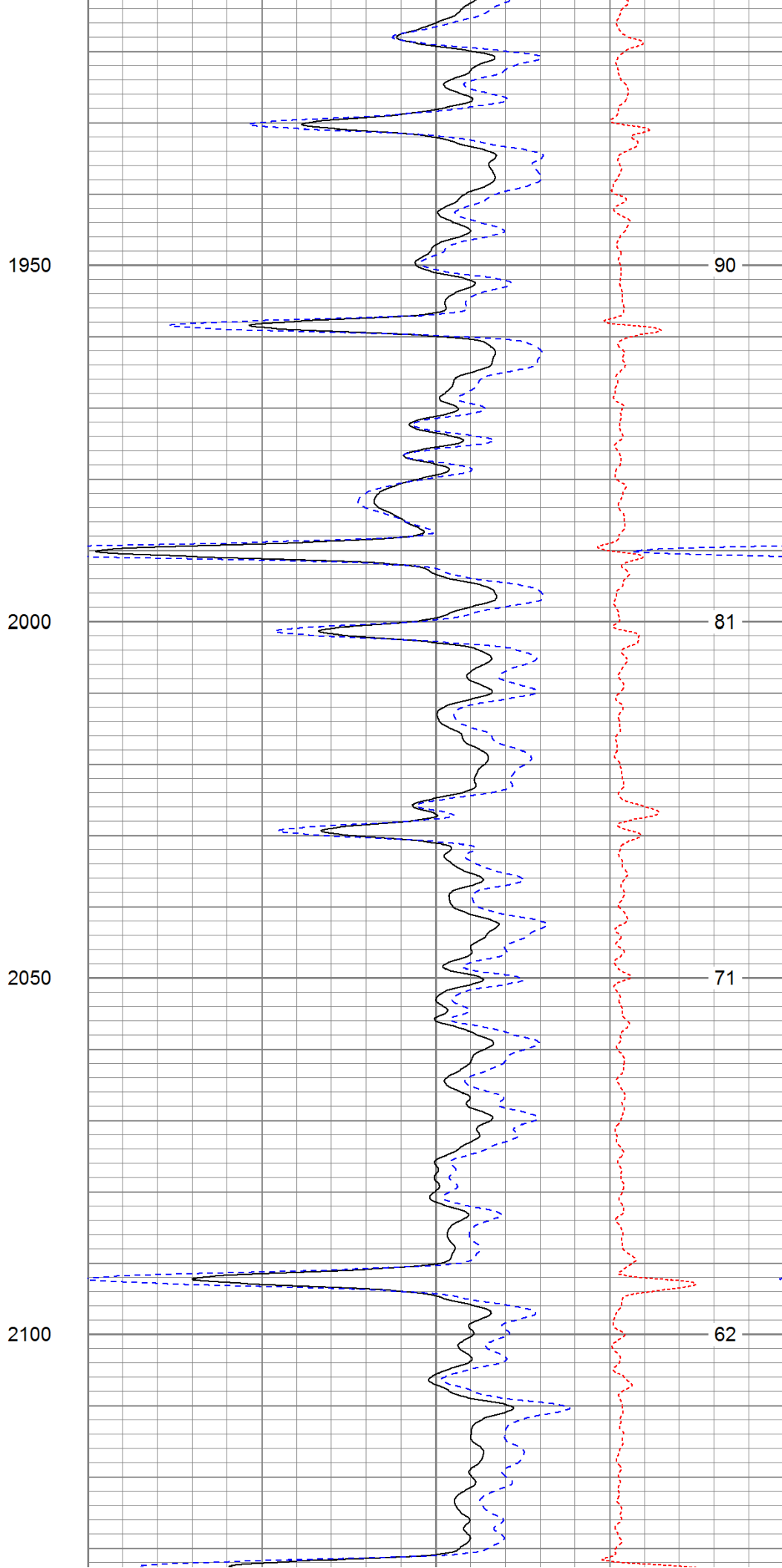
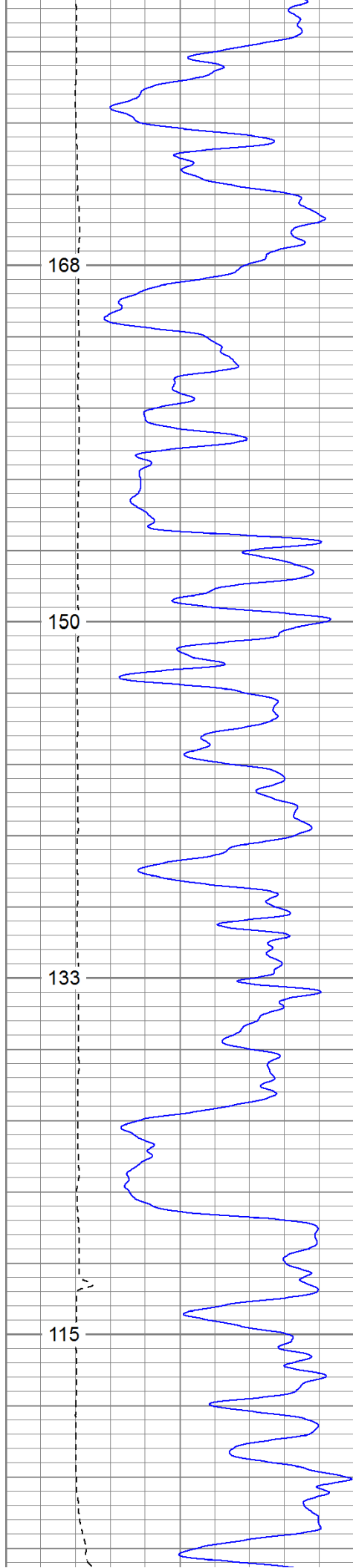
2	RHOB (g/cc)		3	
1	RHOB (g/cc)		2	
30	DPOR (pu)		-10	
		-0.5	RHOC (g/cc)	0.5
		7000	LTEN (lb)	0
				ABHV (ft3)

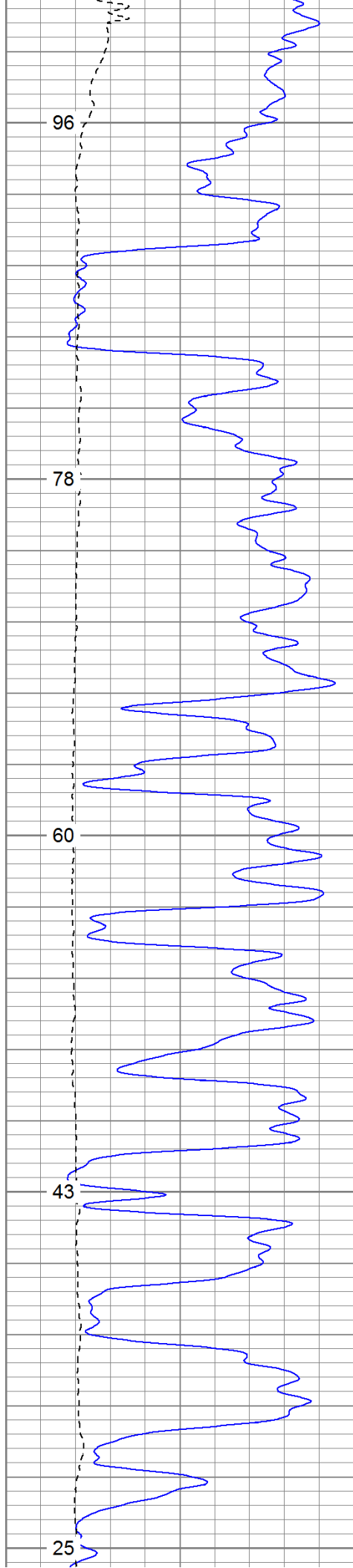












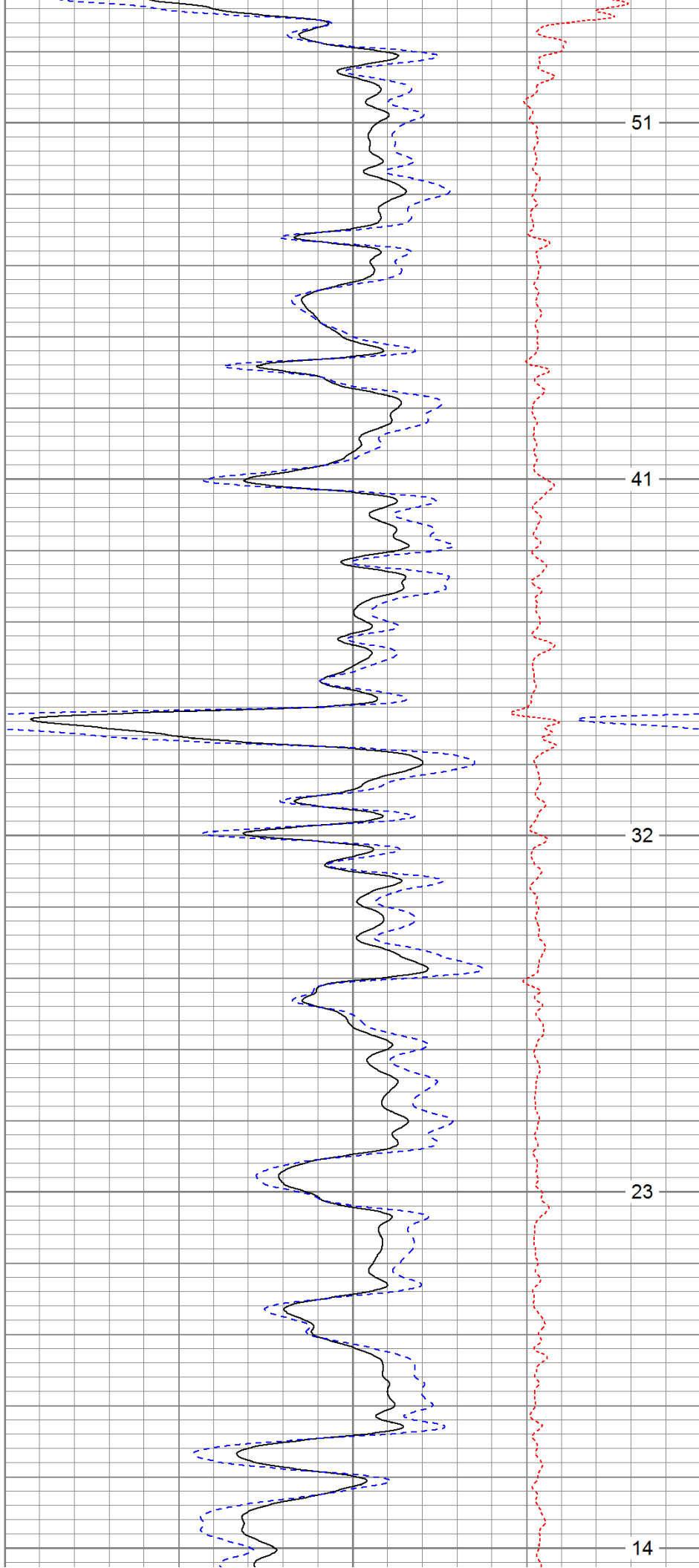
2150

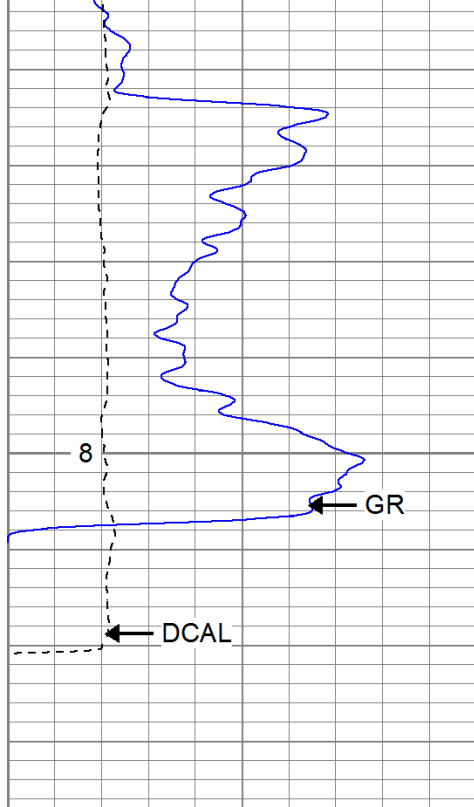
2200

2250

2300

2350

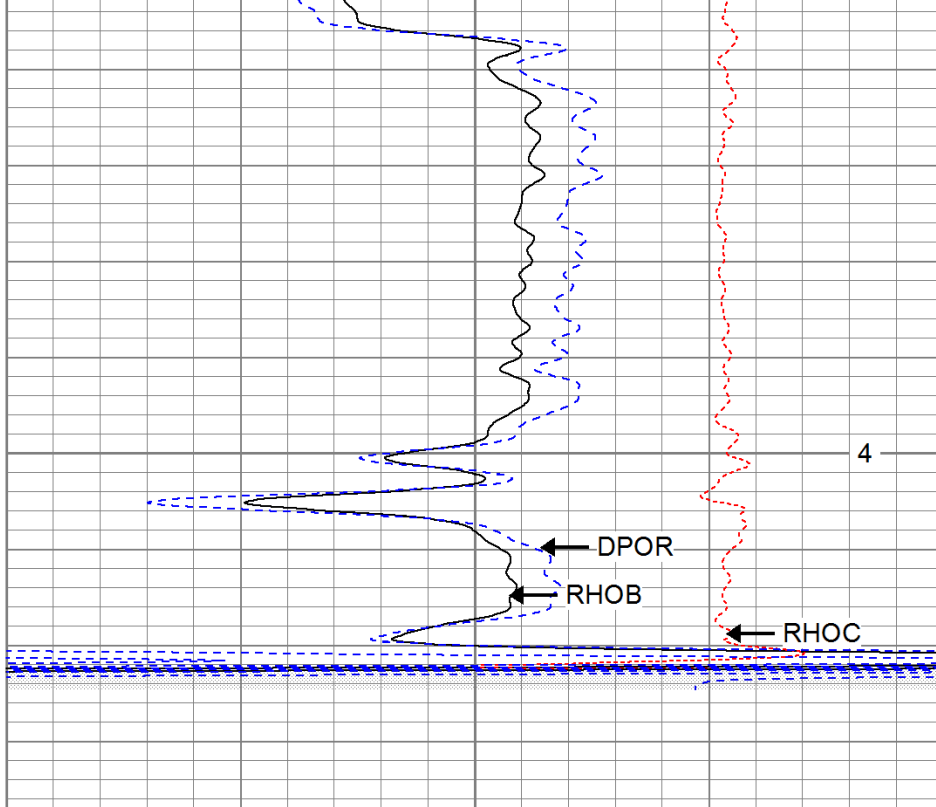




0	GR (GAPI)	200
6	DCAL (in)	16

TBHV (ft3)

2400



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)



Main Pass

Database File: talontr.db
 Dataset Pathname: pass2.1
 Presentation Format: cdnl
 Dataset Creation: Mon Aug 01 01:23:03 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

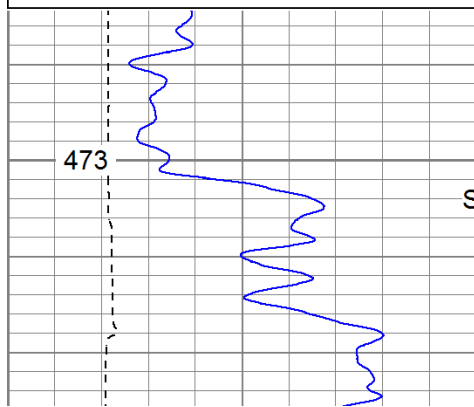
0	GR (GAPI)	200
6	DCAL (in)	16

TBHV (ft3)

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

-0.5	RHOC (g/cc)	0.5
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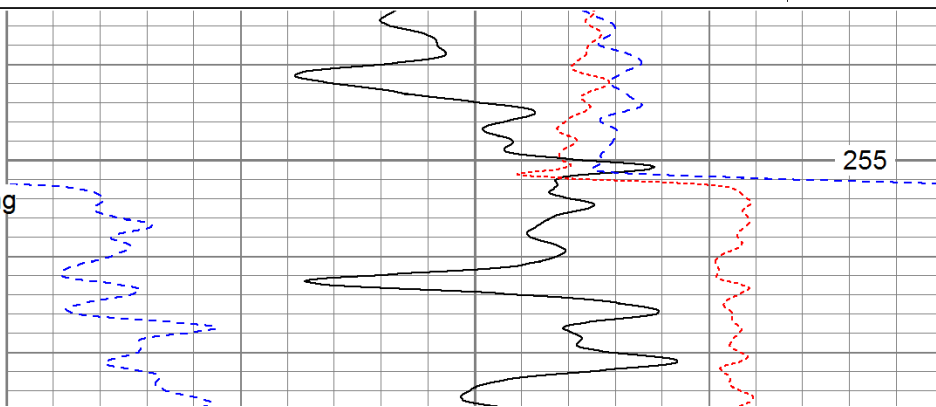
ABHV (ft3)



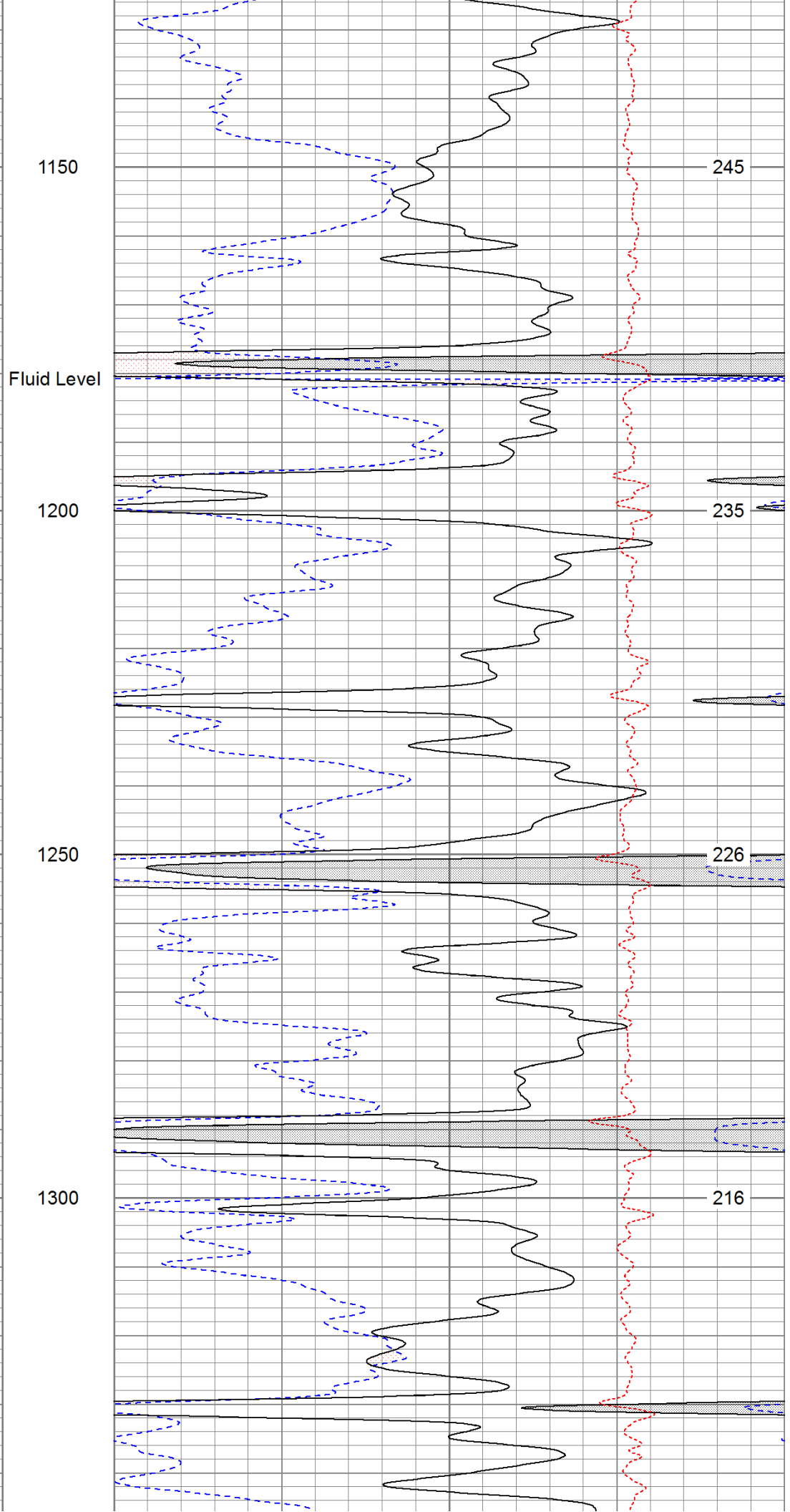
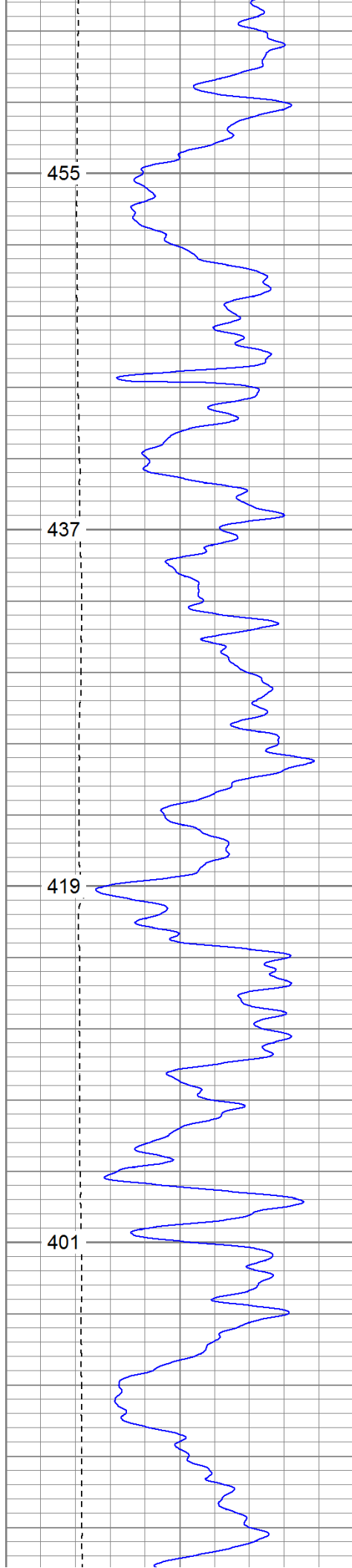
473

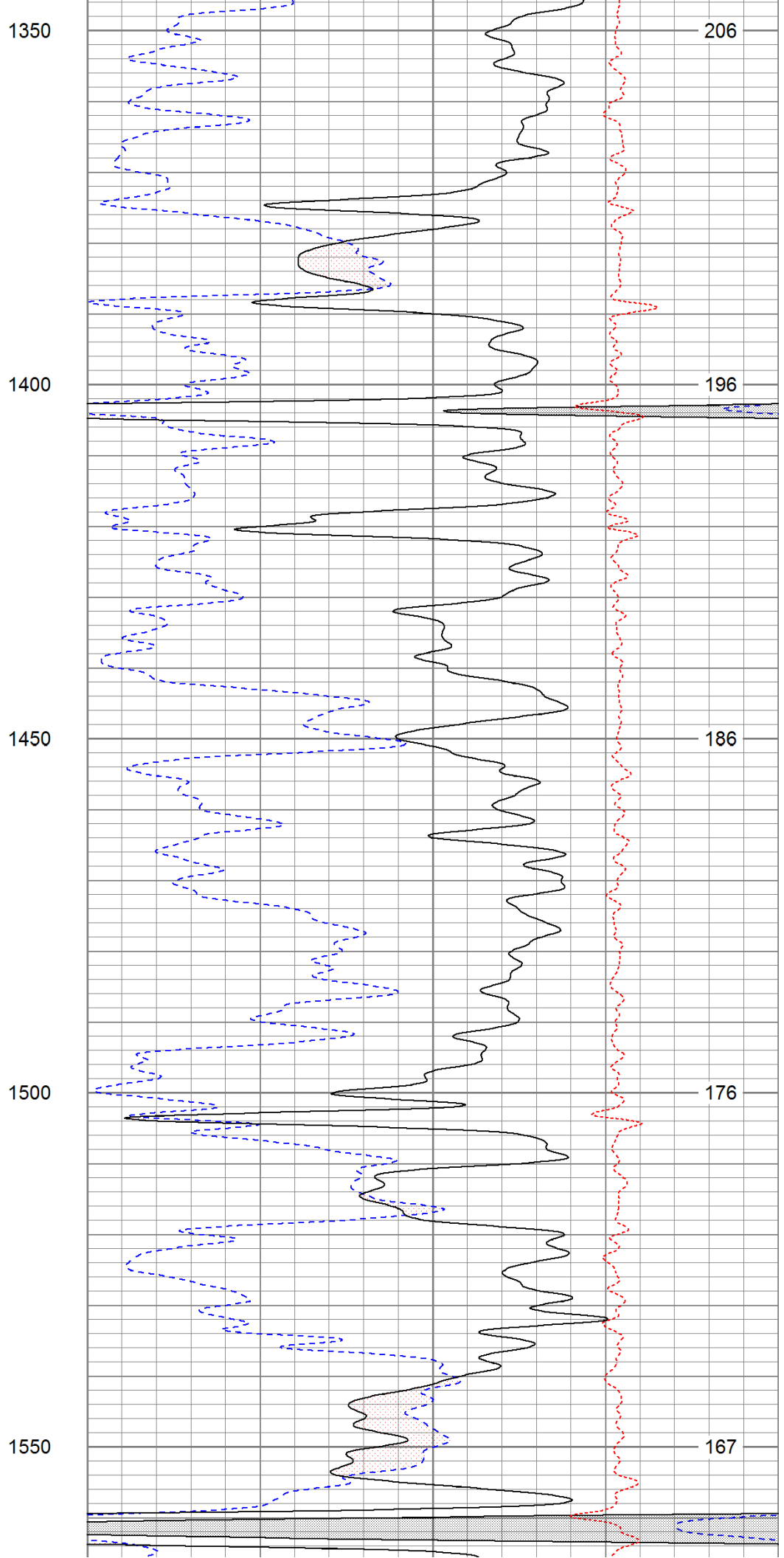
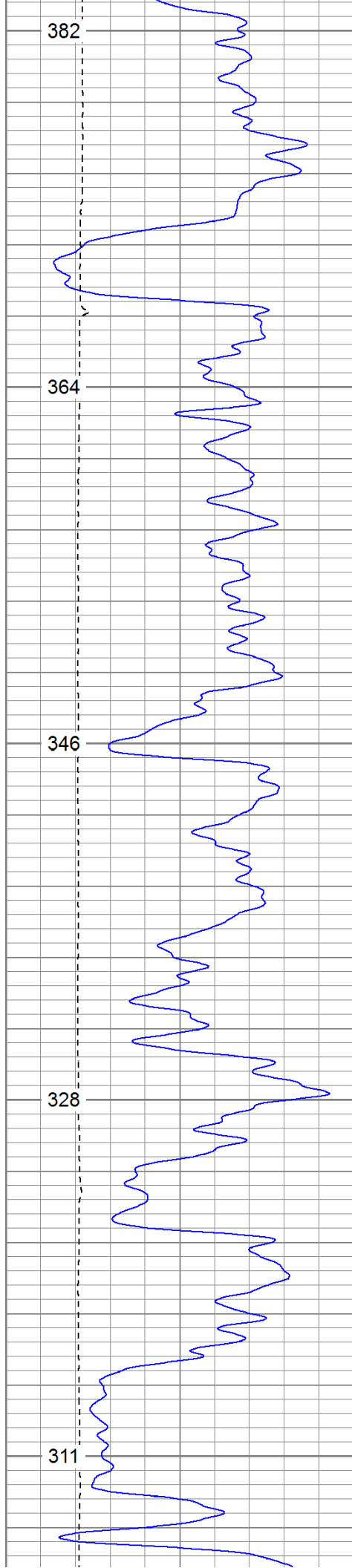
1100

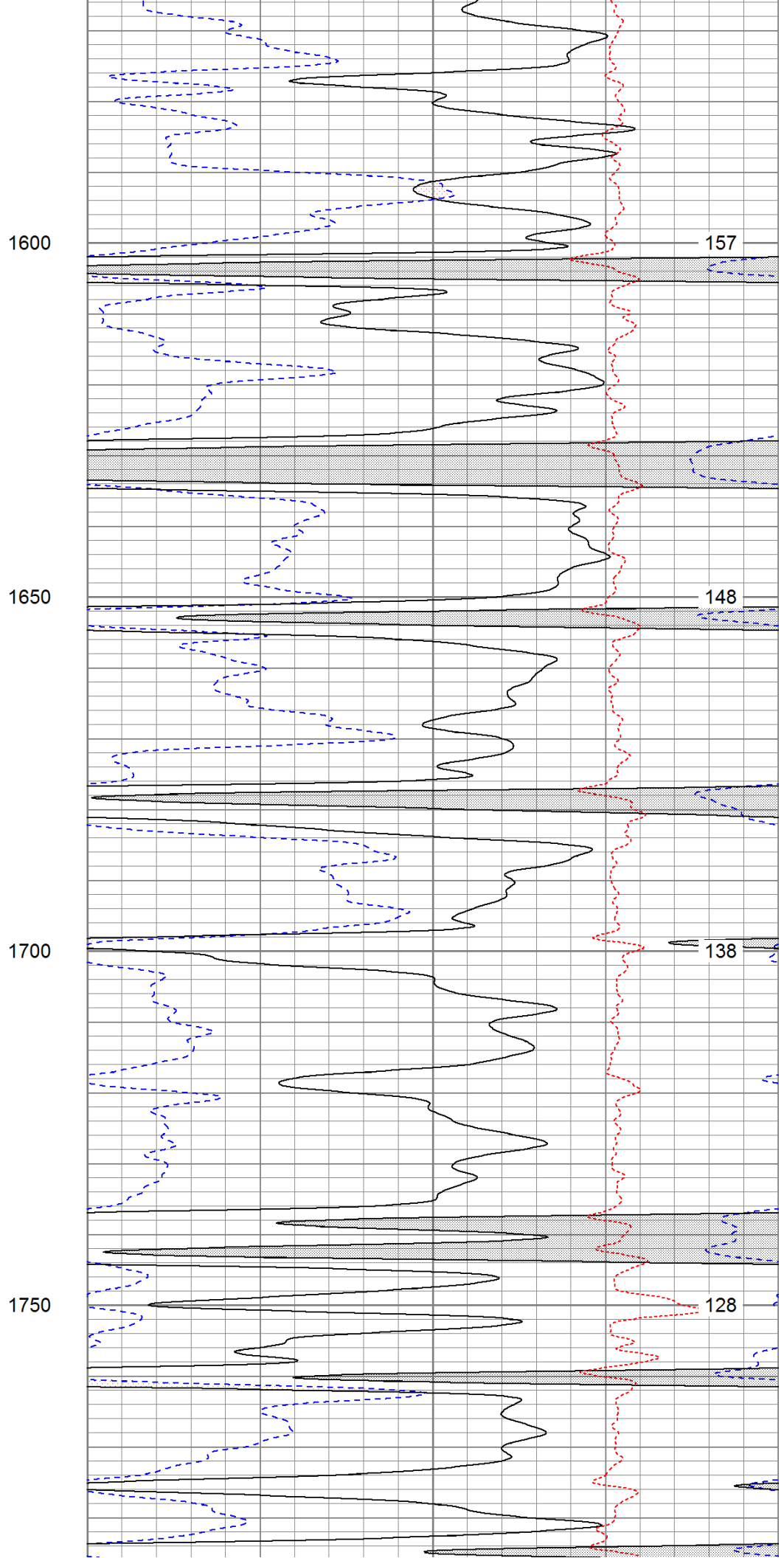
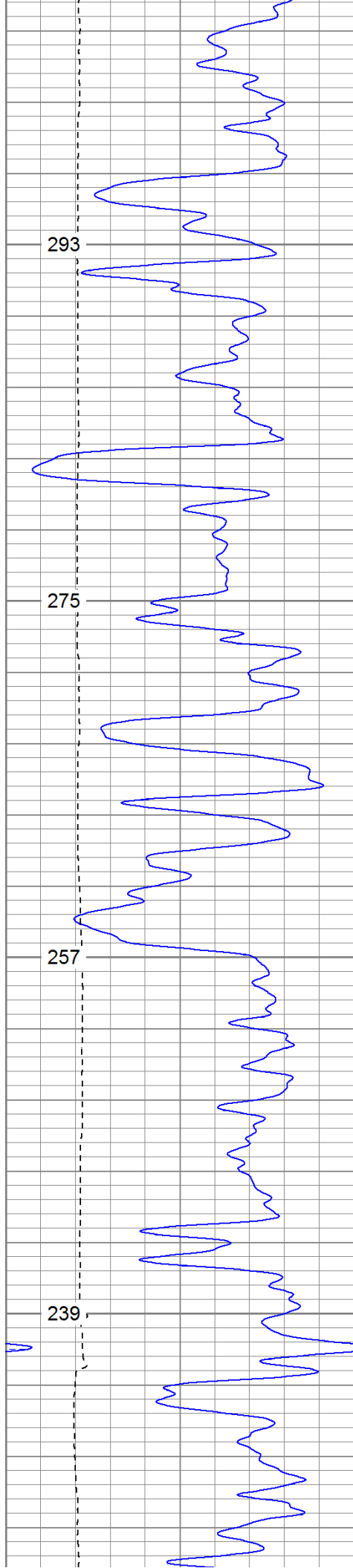
Surface Casing

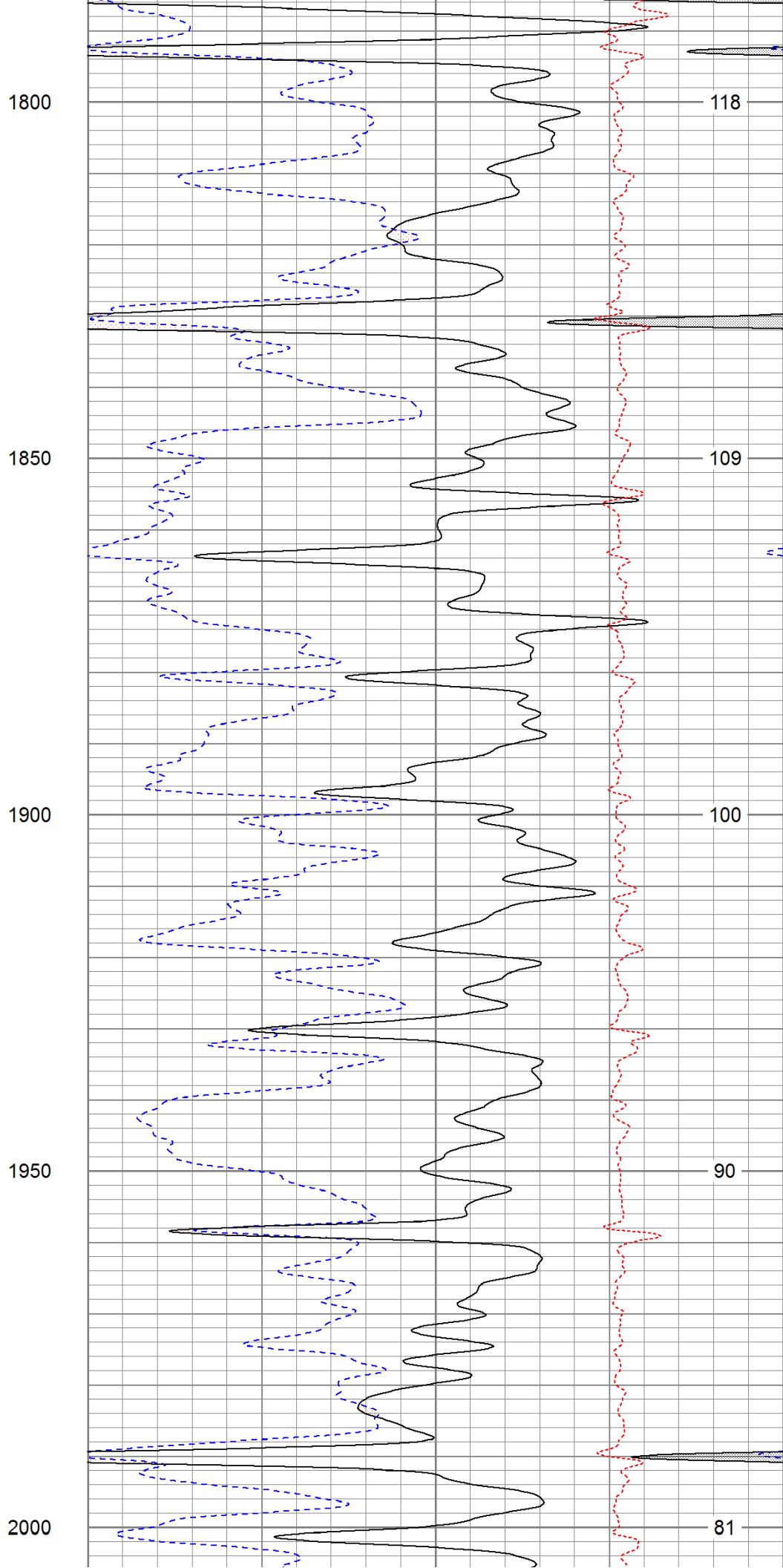
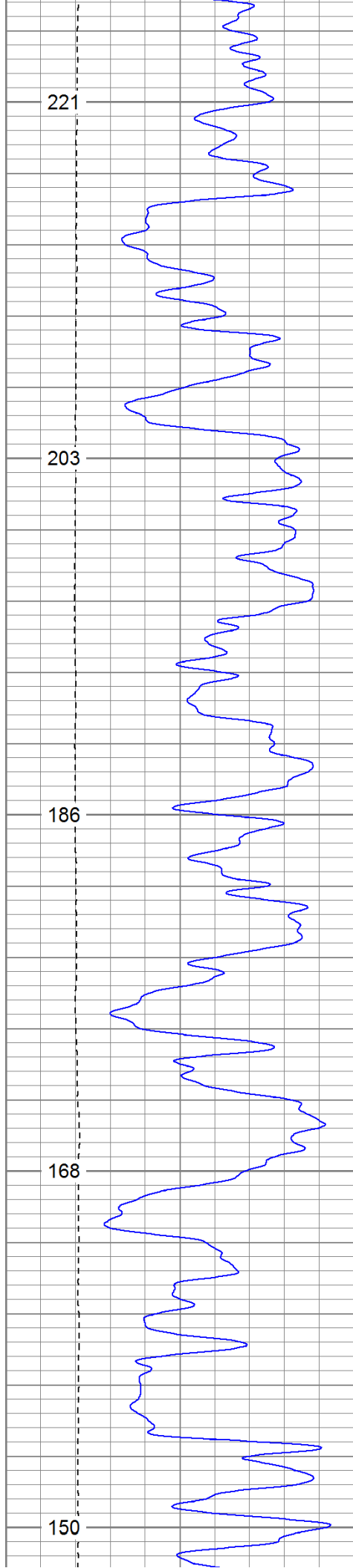


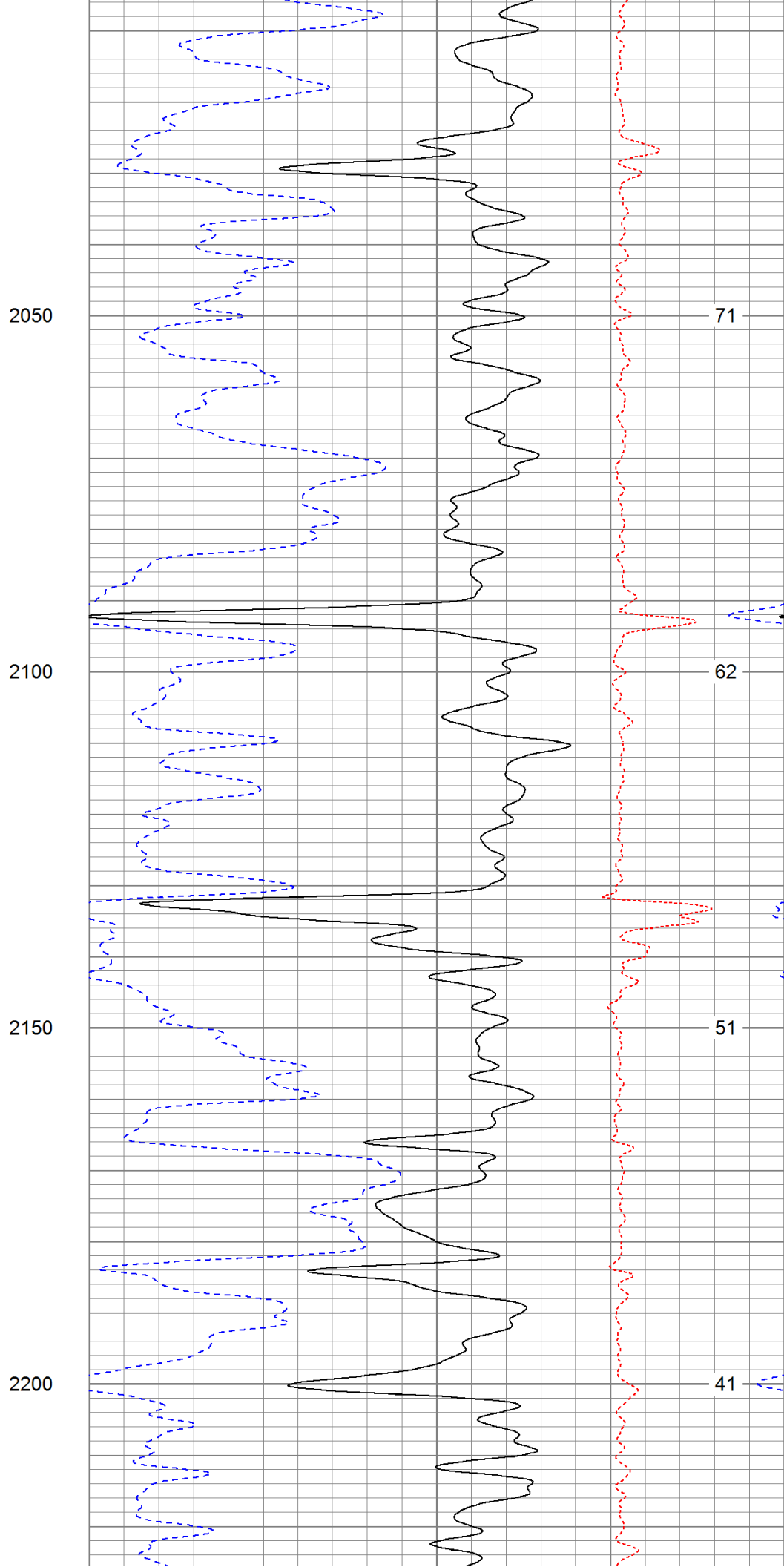
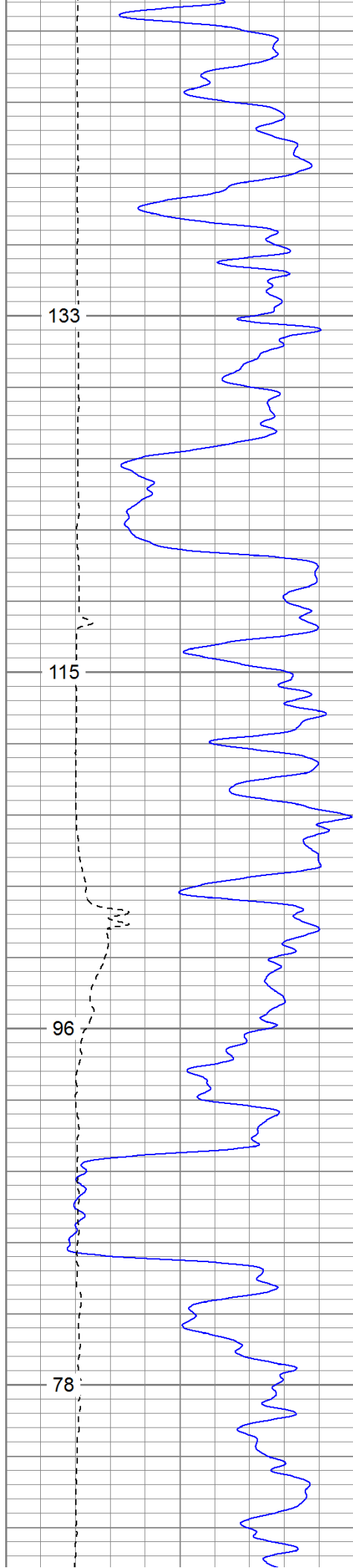
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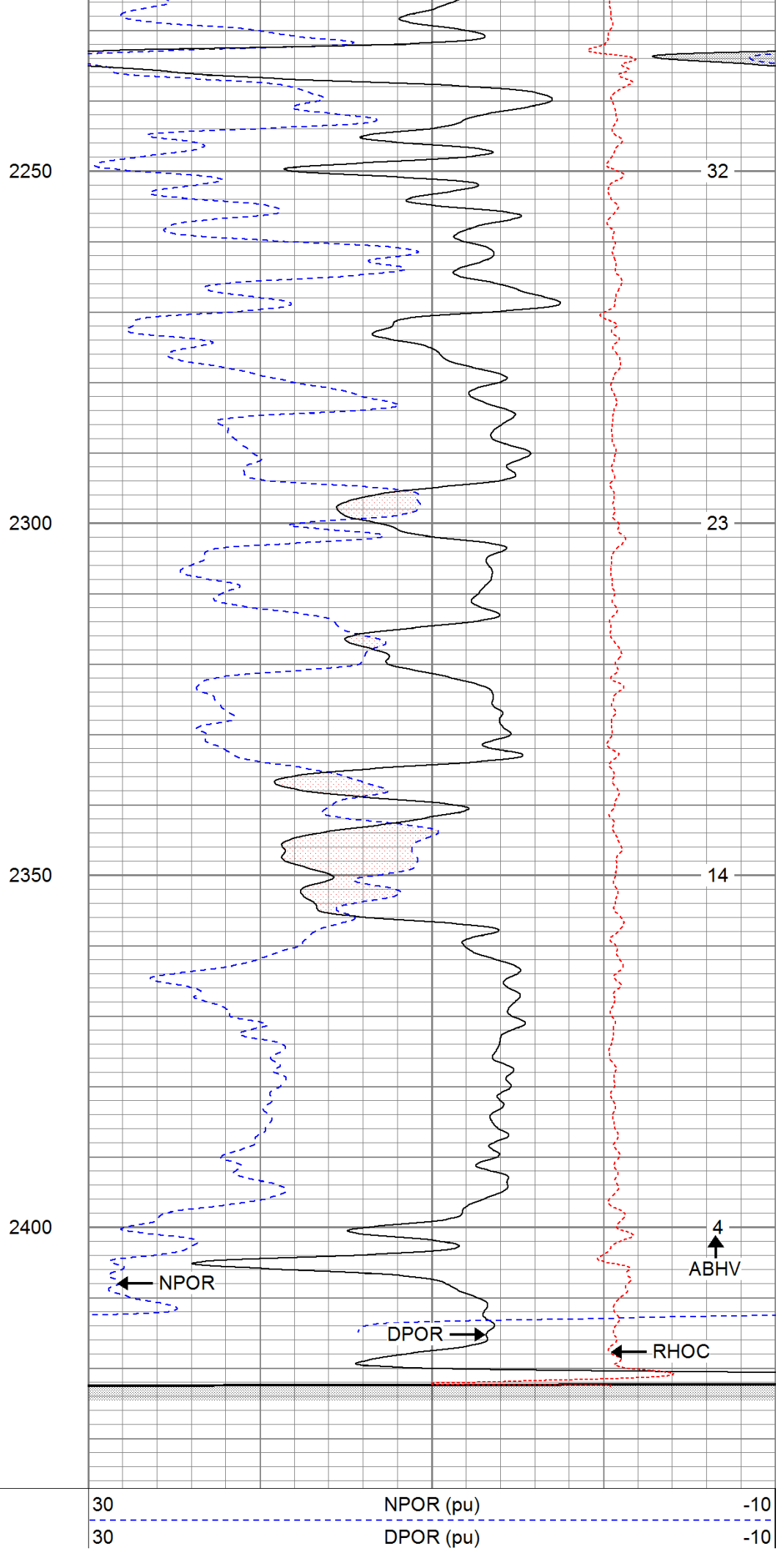
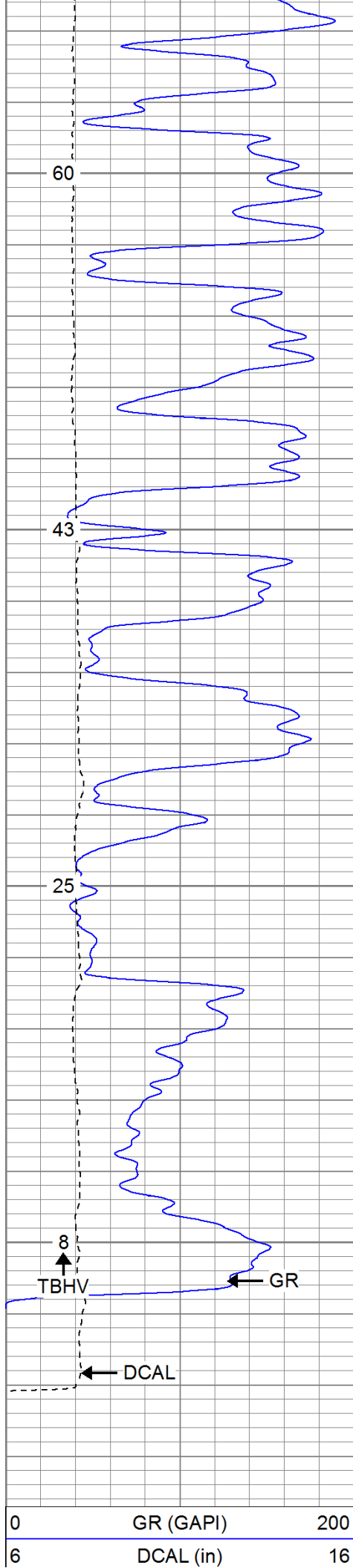












TBHV (ft3)

-0.5

RHOC (g/cc)

0.5

ABHV (ft3)



Repeat Pass

Database File: talontr.db
Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Mon Aug 01 01:27:53 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 200

6 DCAL (in) 16

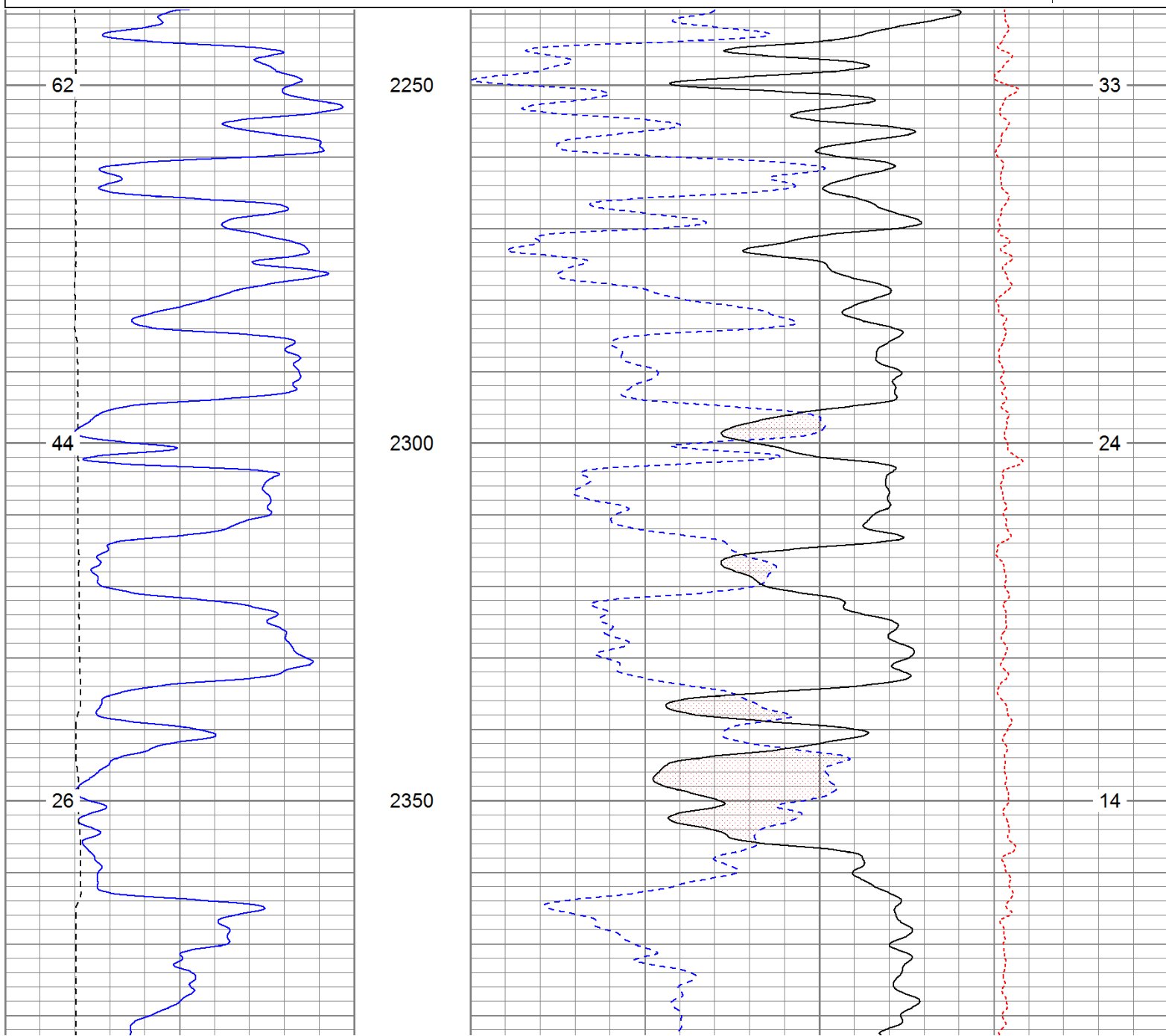
TBHV (ft3)

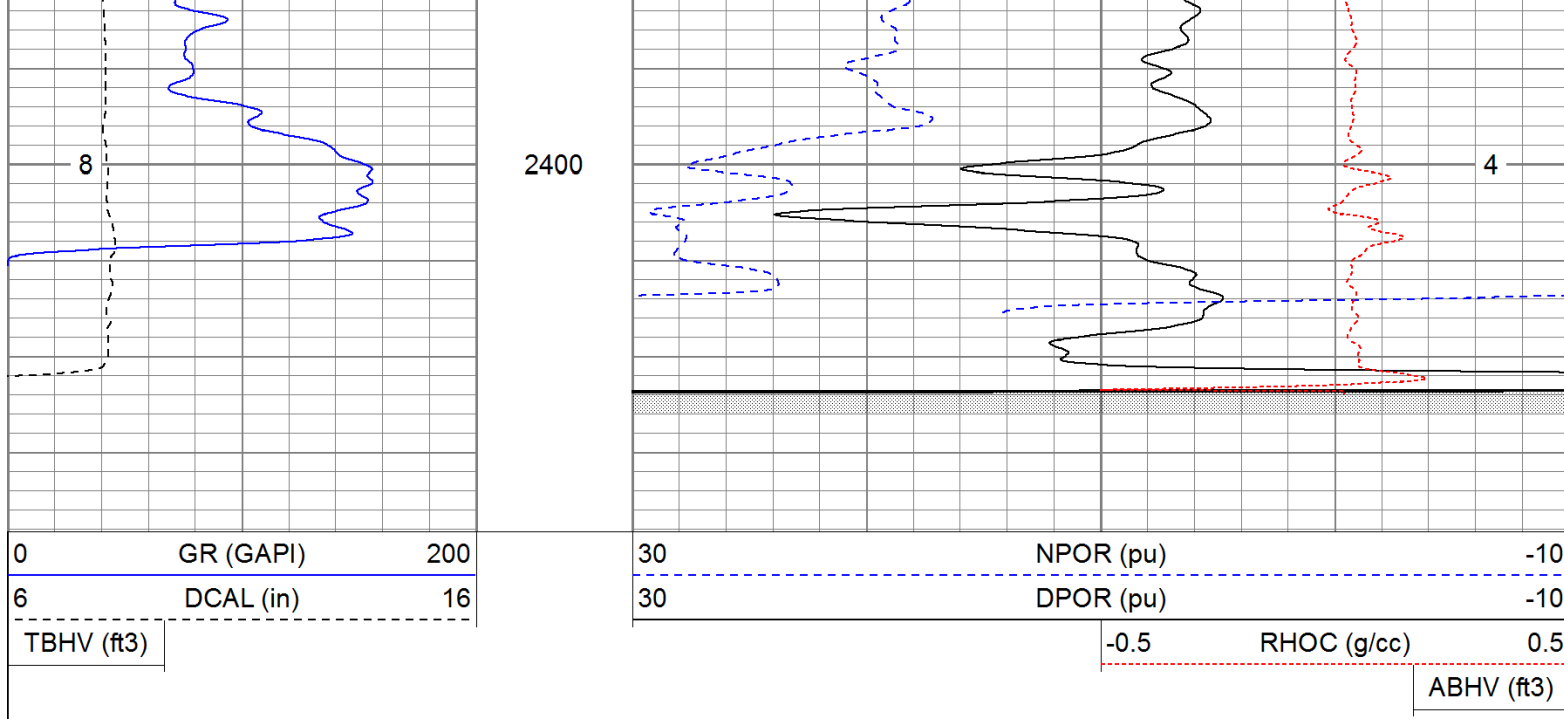
30 NPOR (pu) -10

30 DPOR (pu) -10

-0.5 RHOC (g/cc) 0.5

ABHV (ft3)

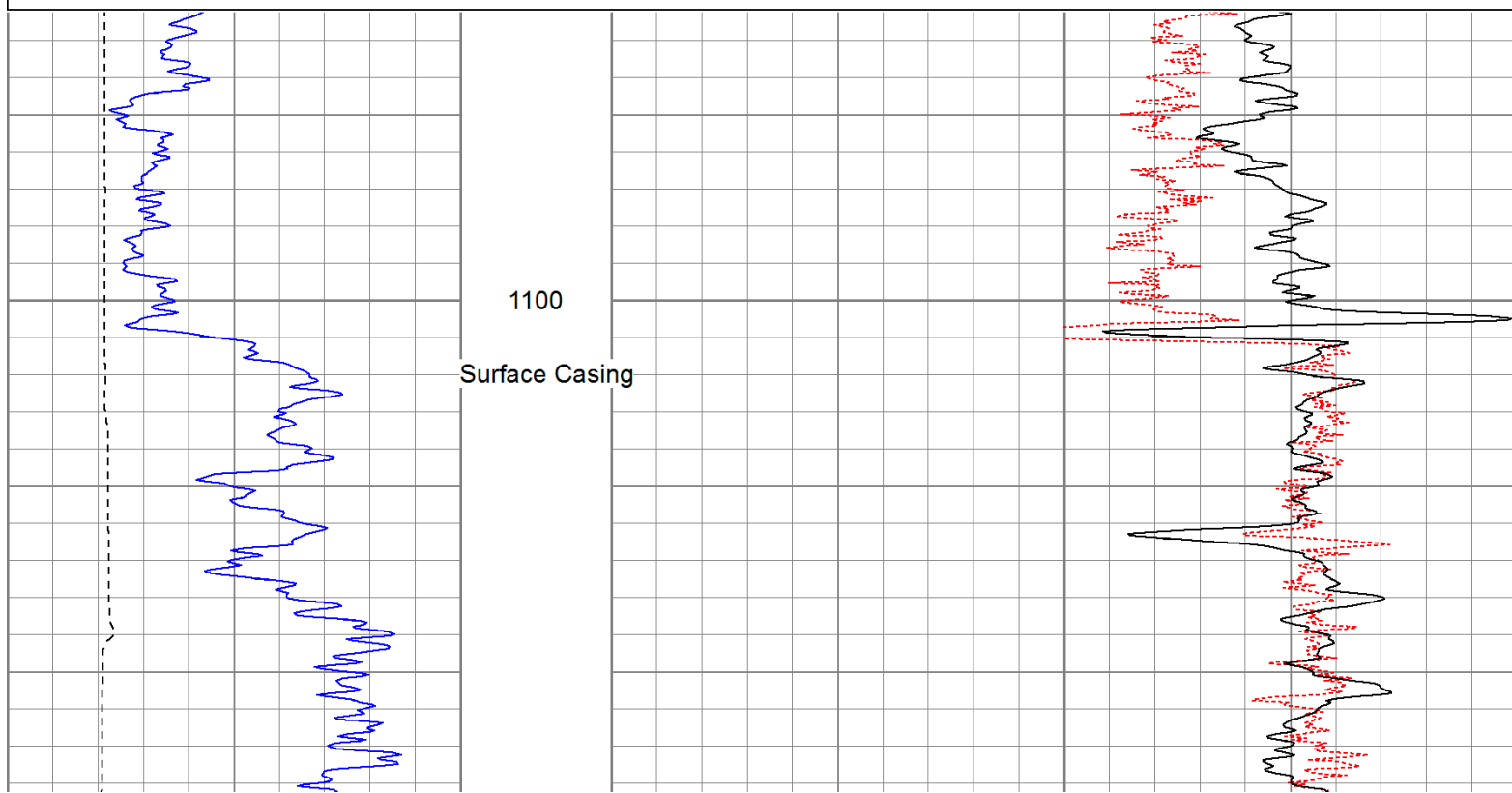


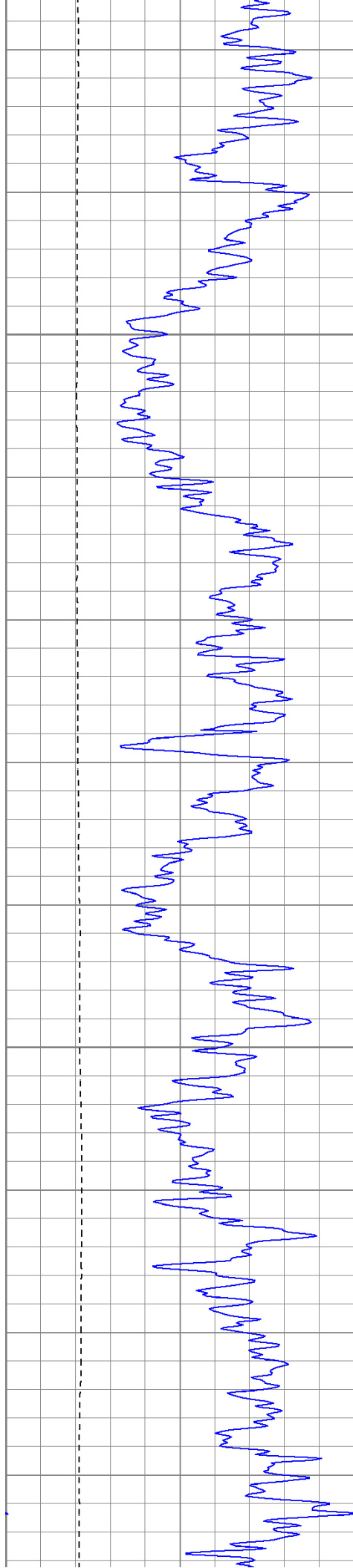


High Resolution Pass

Database File: talontr.db
 Dataset Pathname: pass2.2
 Presentation Format: cdlhr
 Dataset Creation: Thu Aug 04 13:53:57 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:120

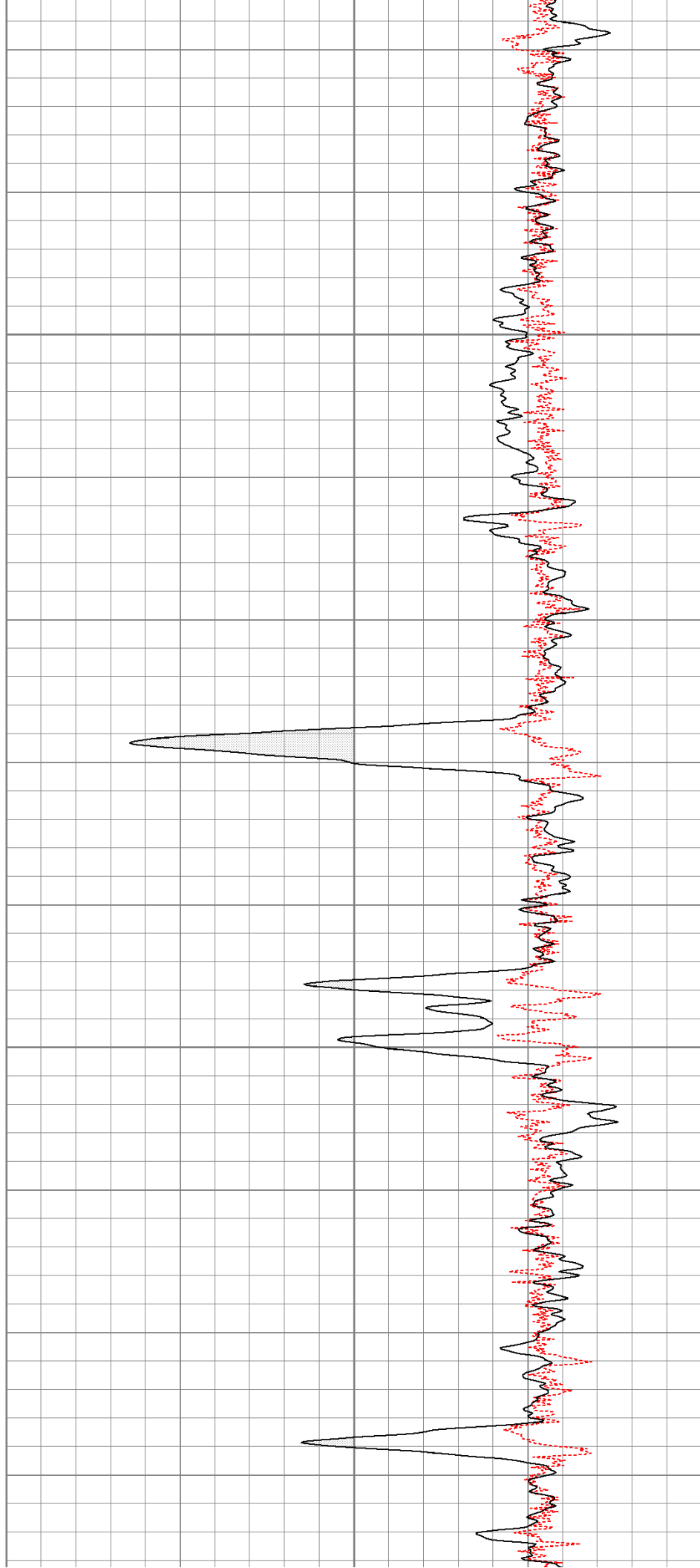
0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16		-0.5 RHOC (g/cc) 0.5	

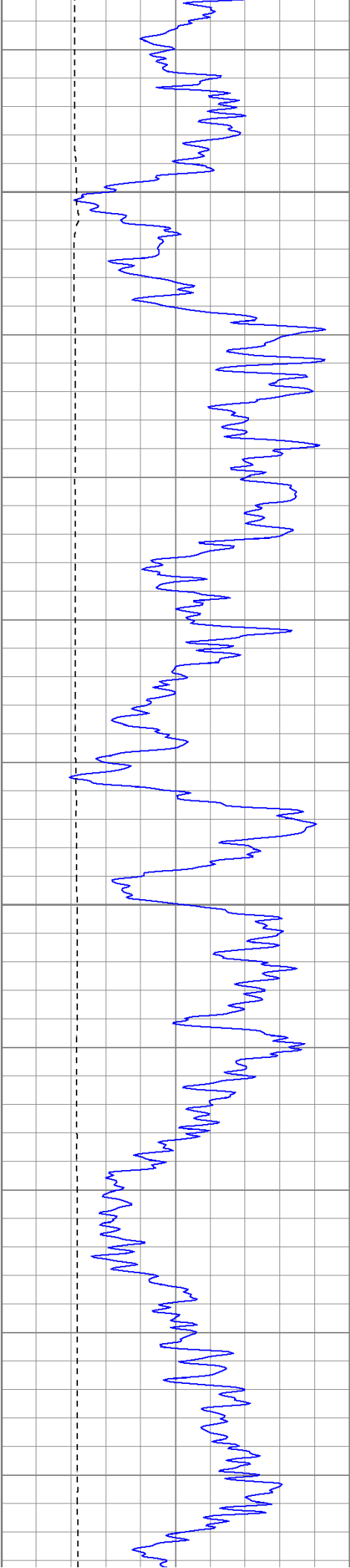




1150

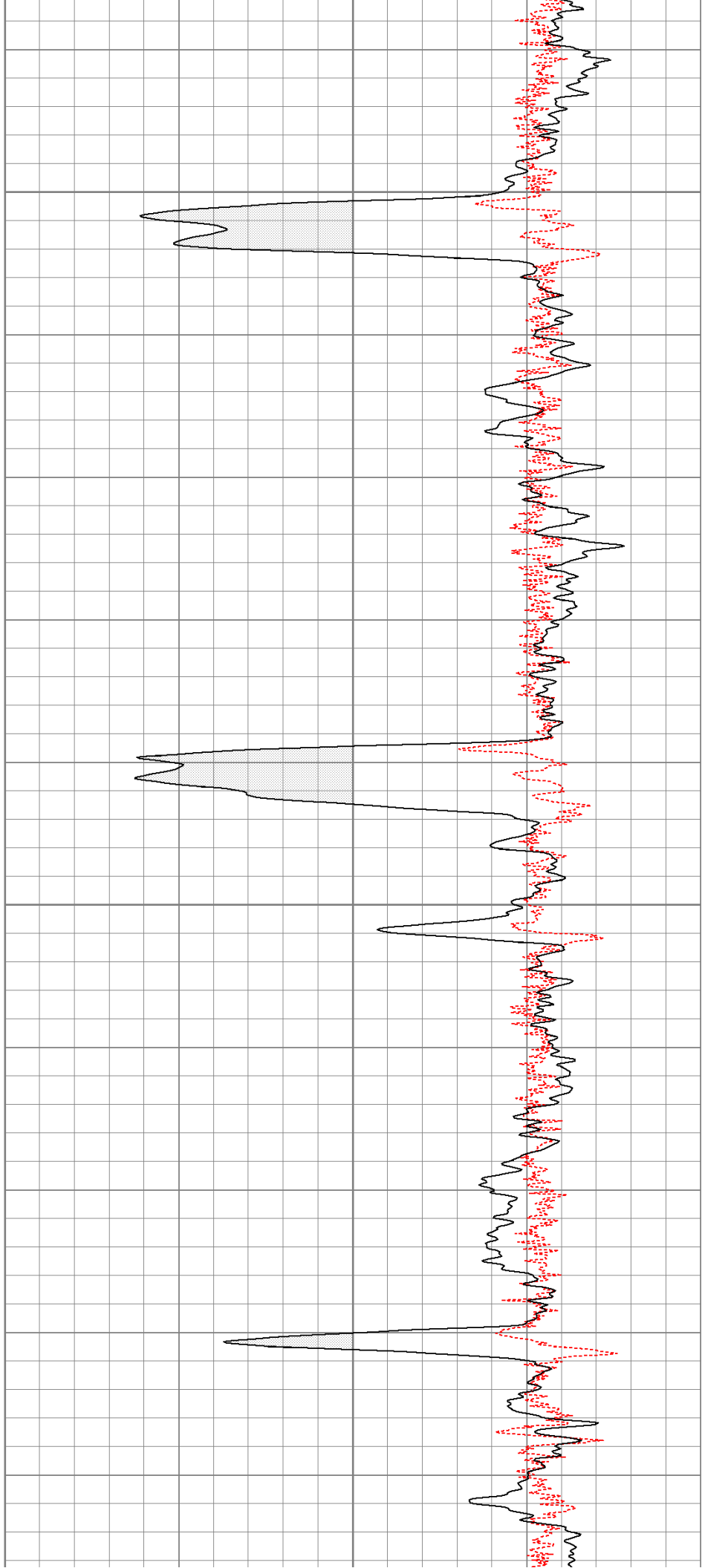
1200

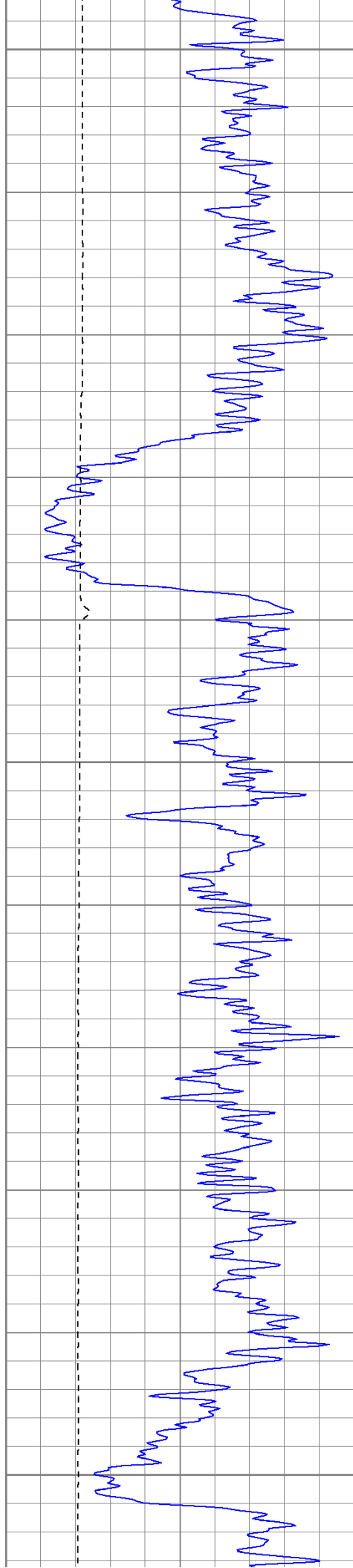




1250

1300

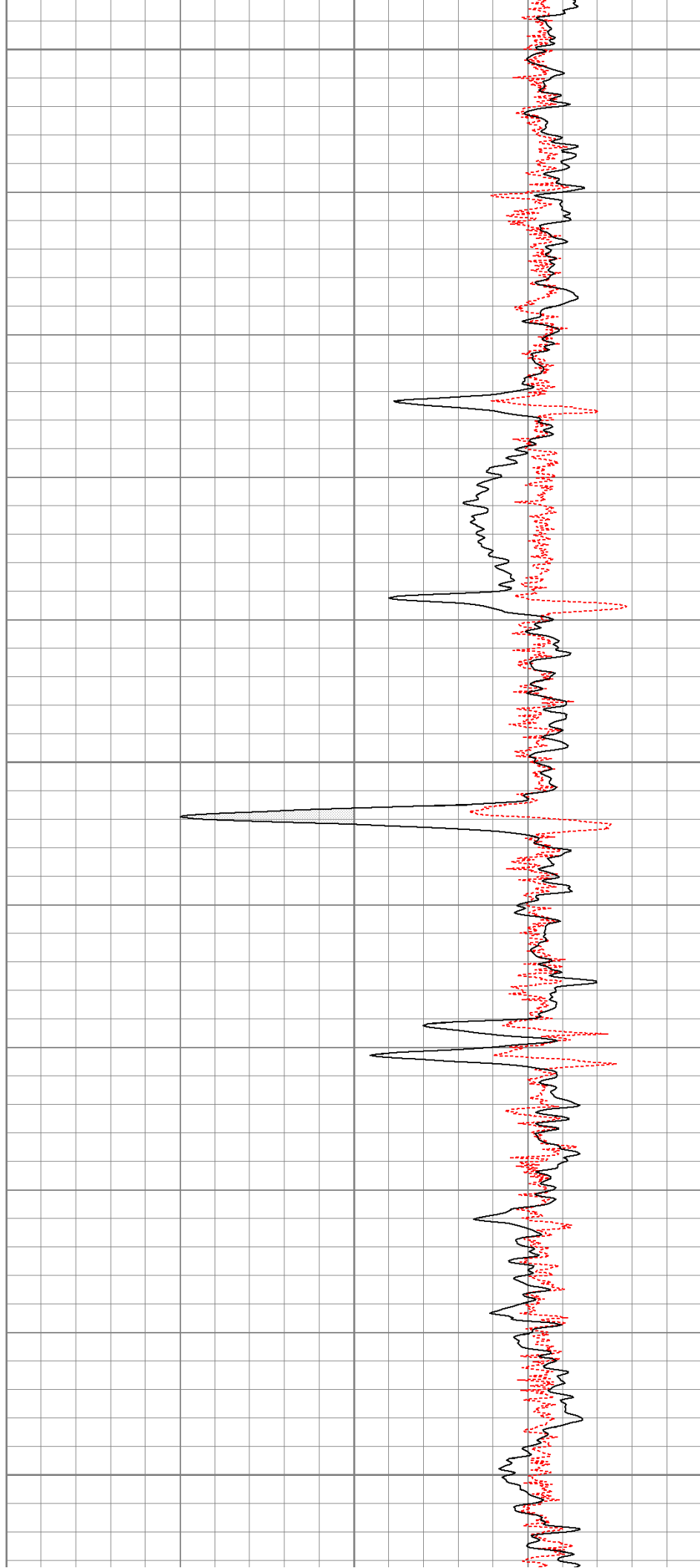


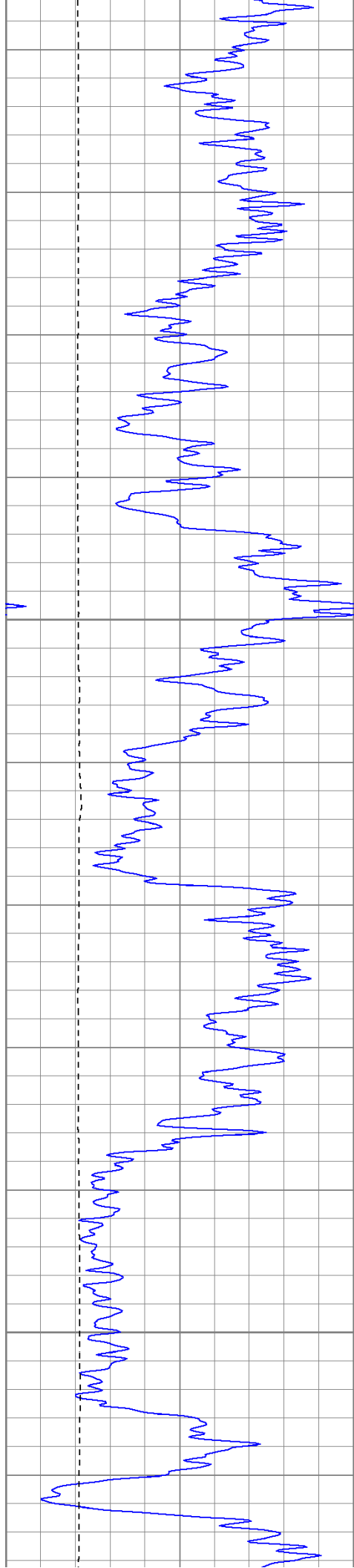


1350

1400

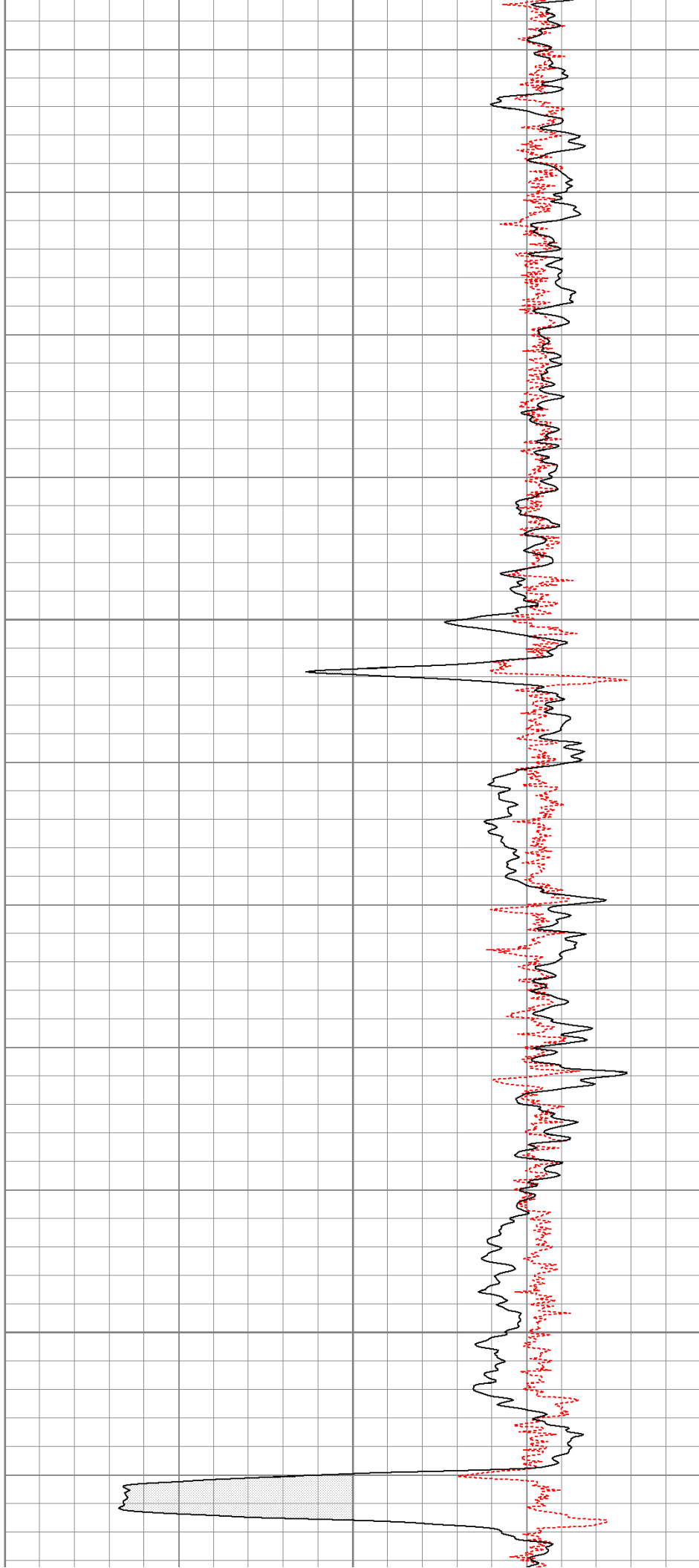
1450

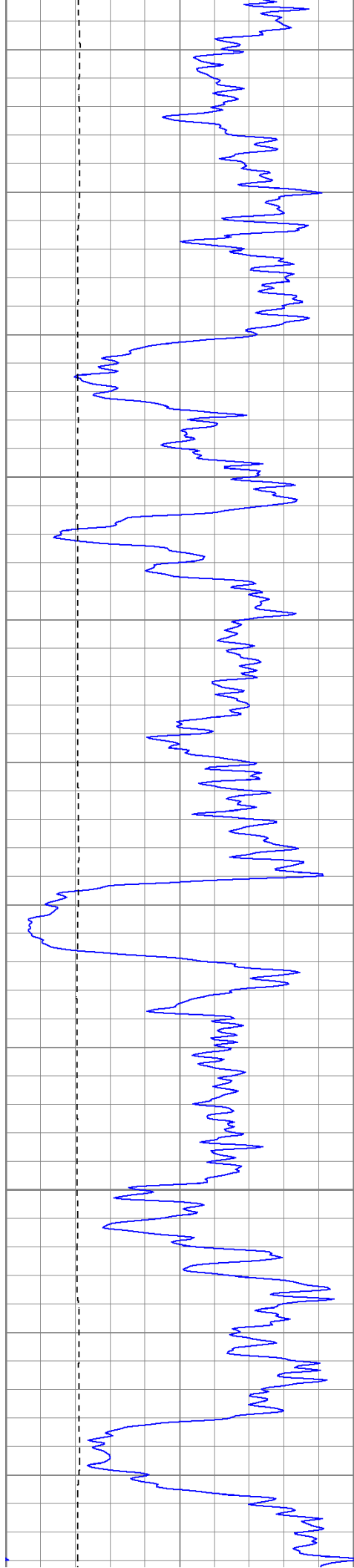




1500

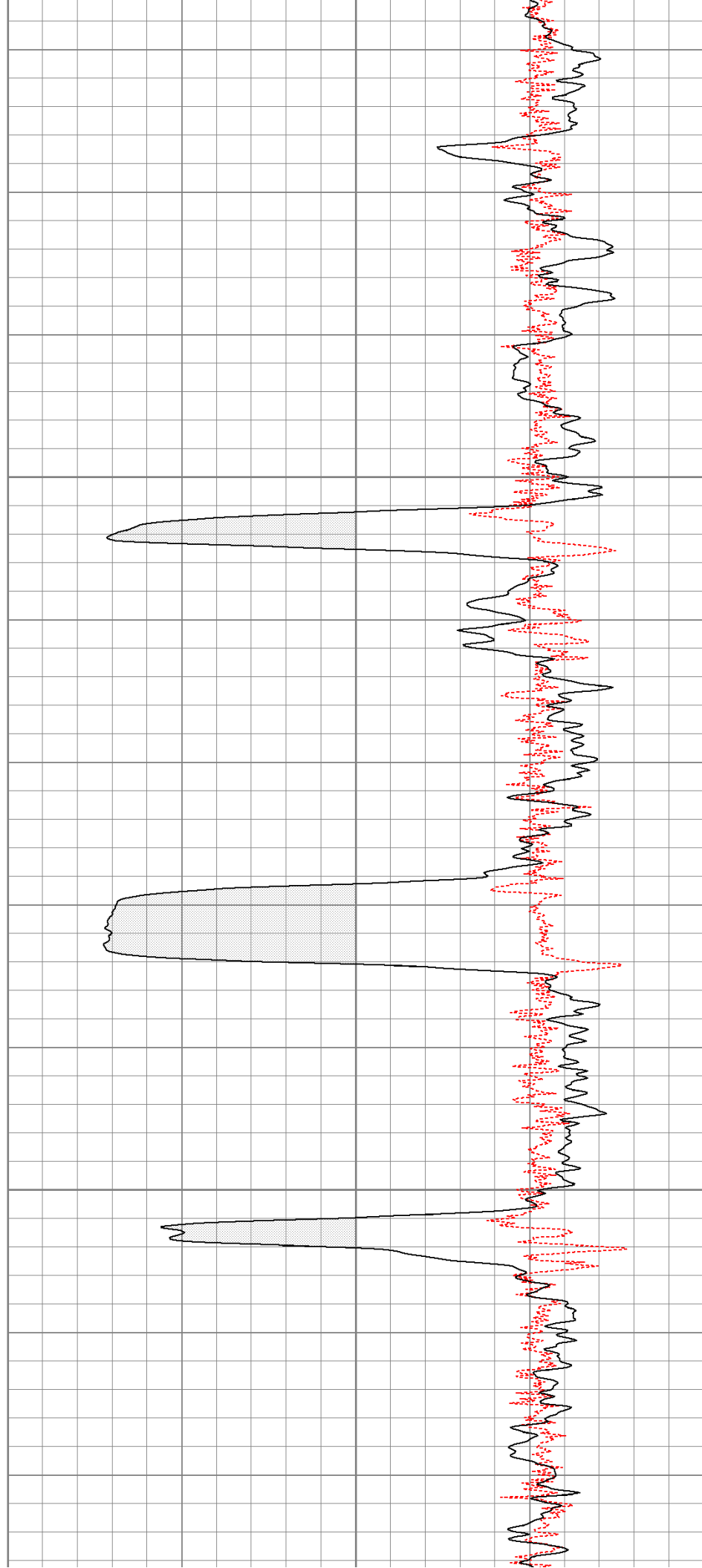
1550

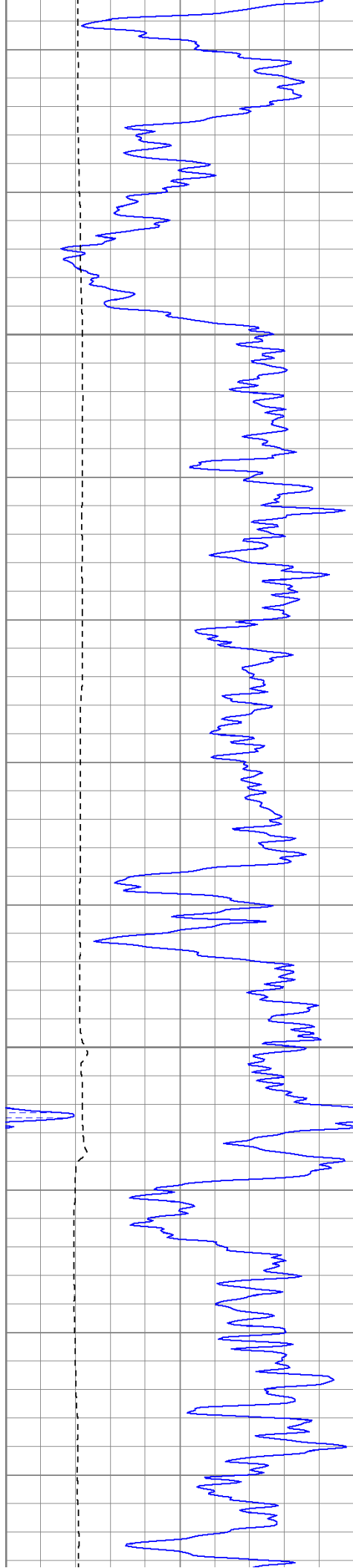




1600

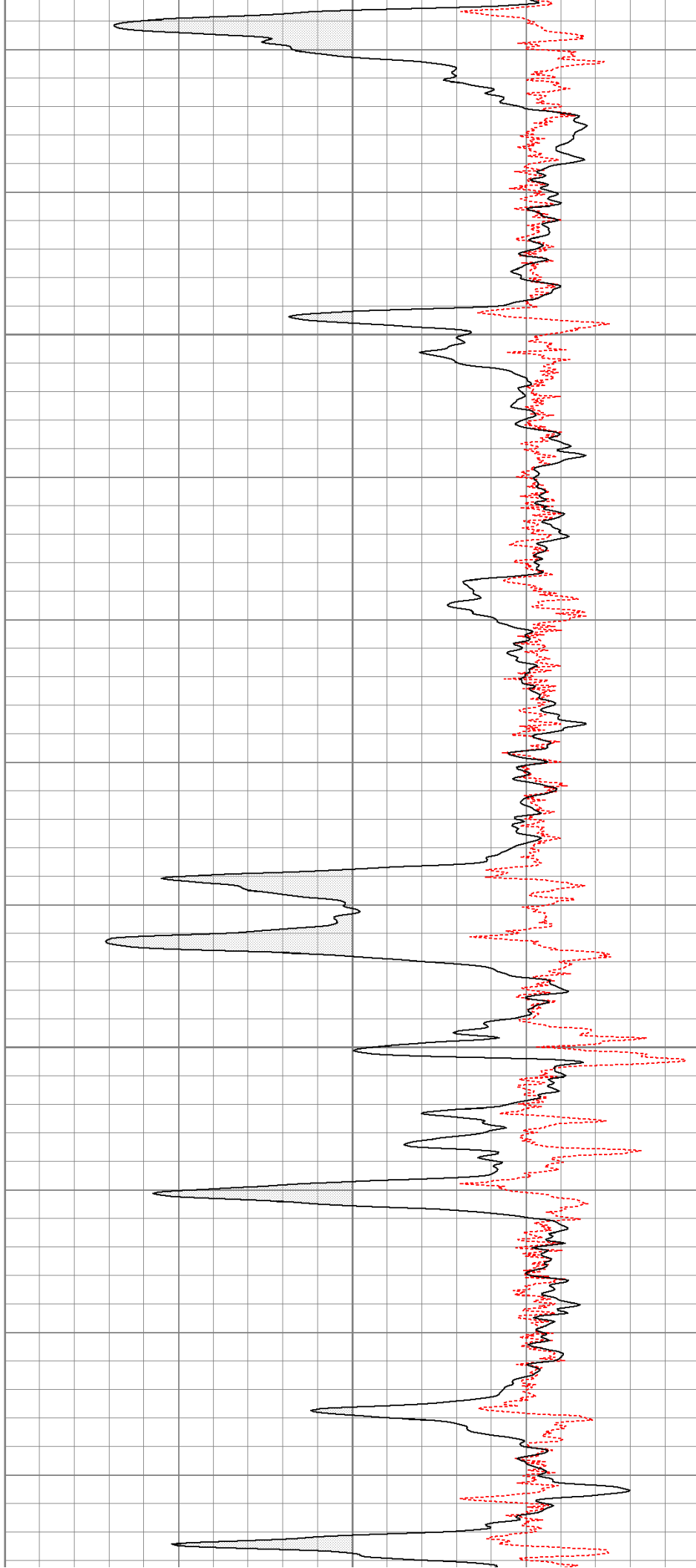
1650

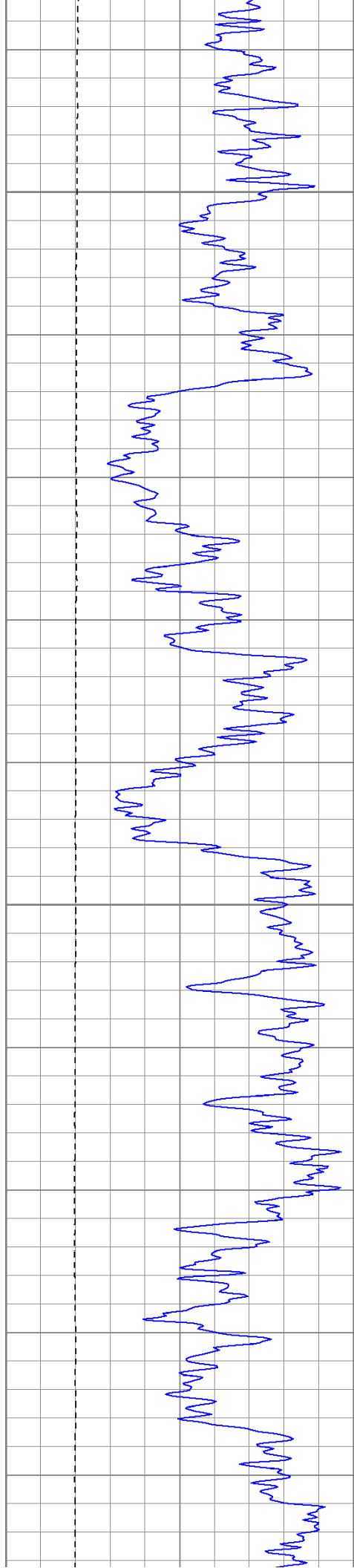




1700

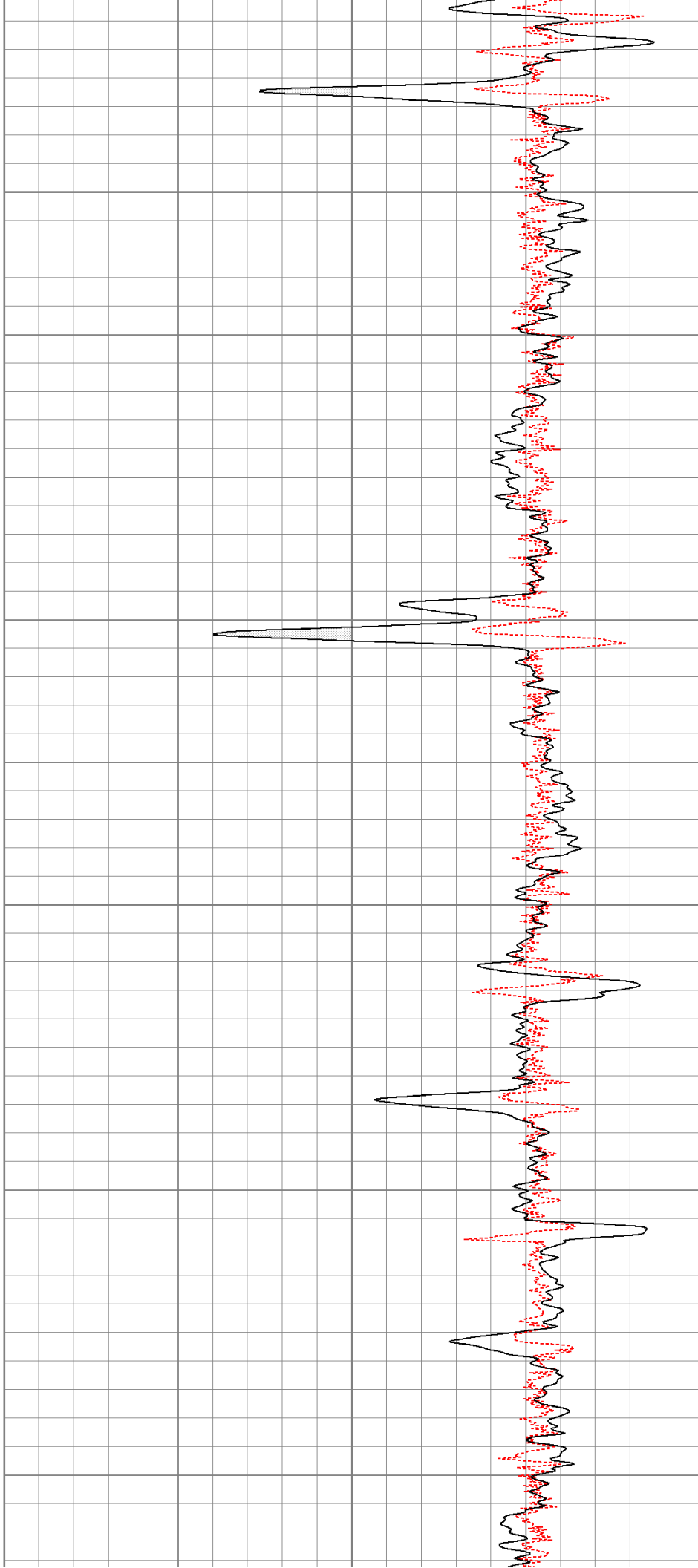
1750

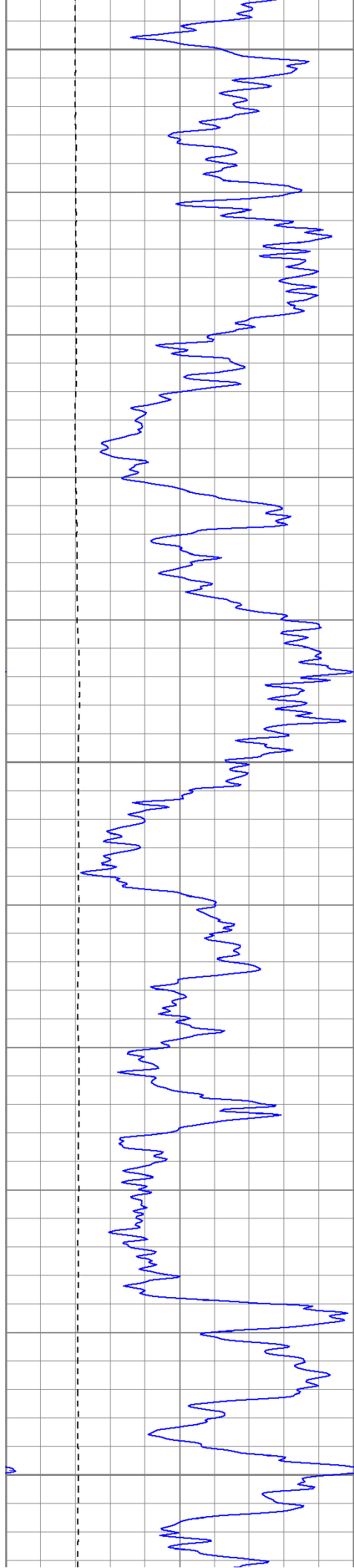




1800

1850

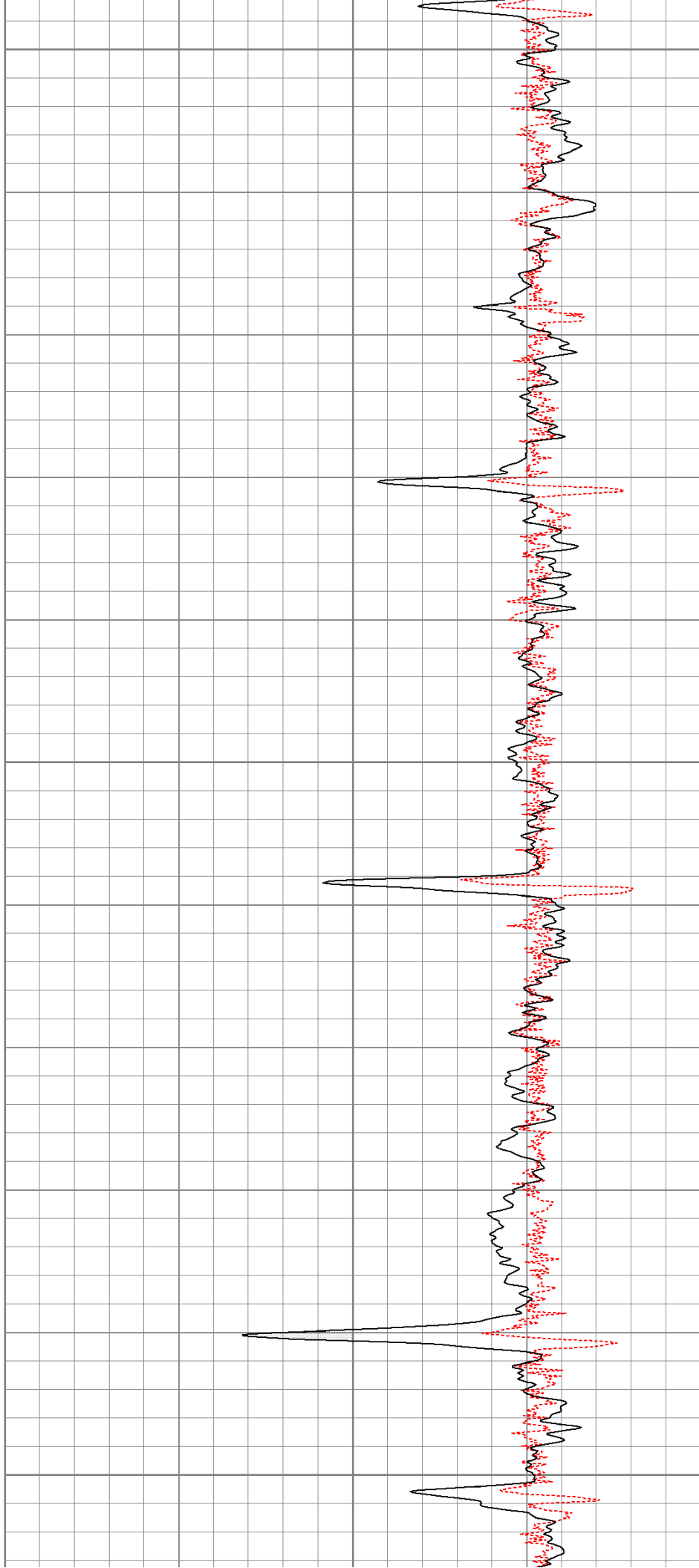


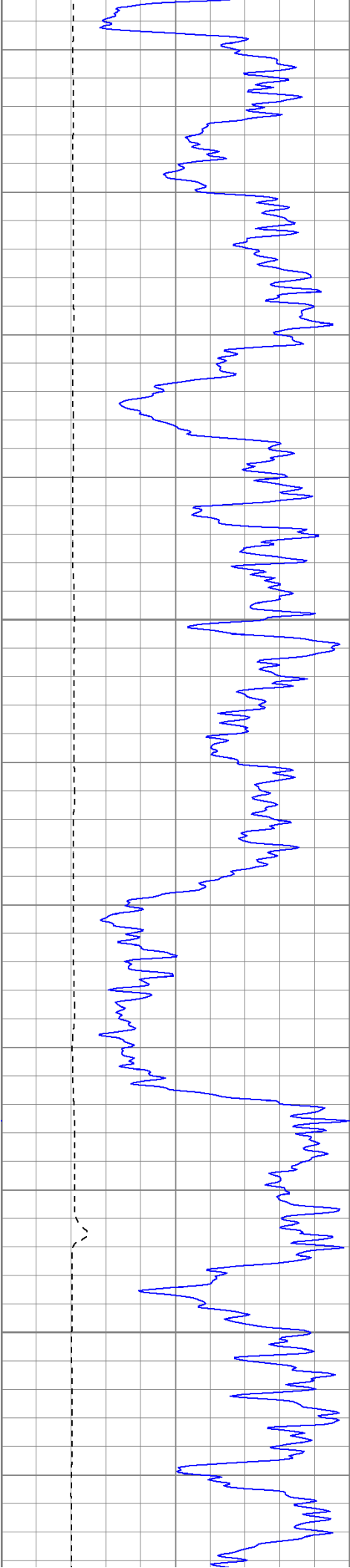


1900

1950

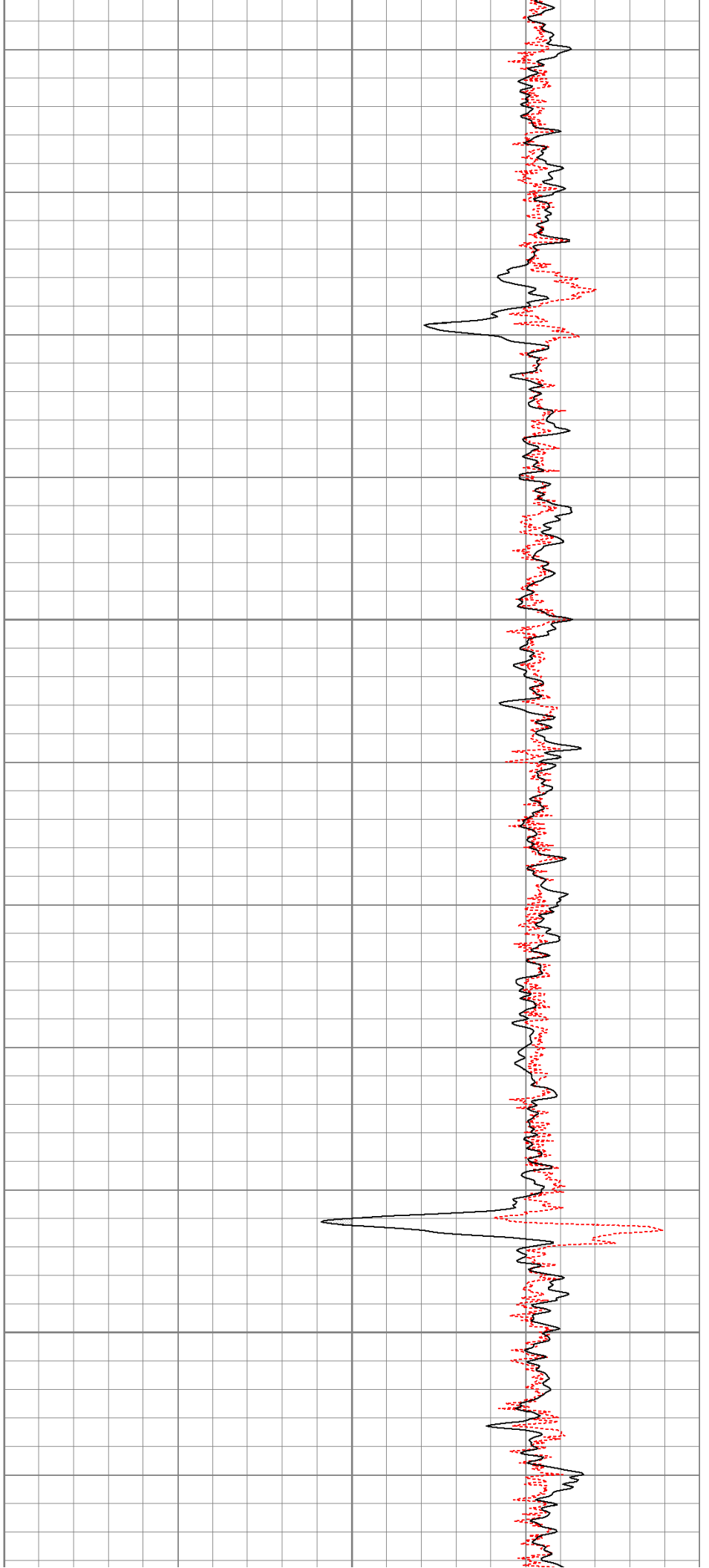
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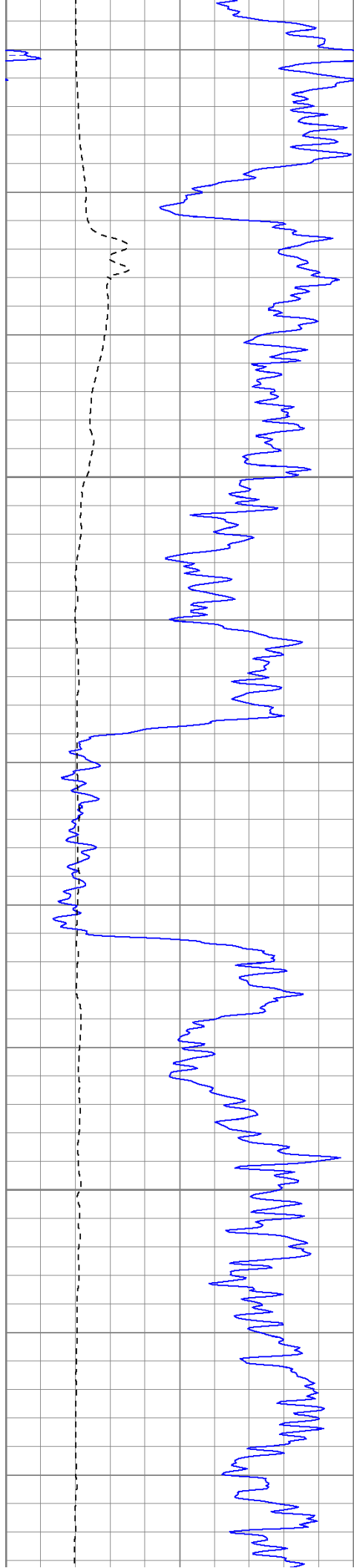




2050

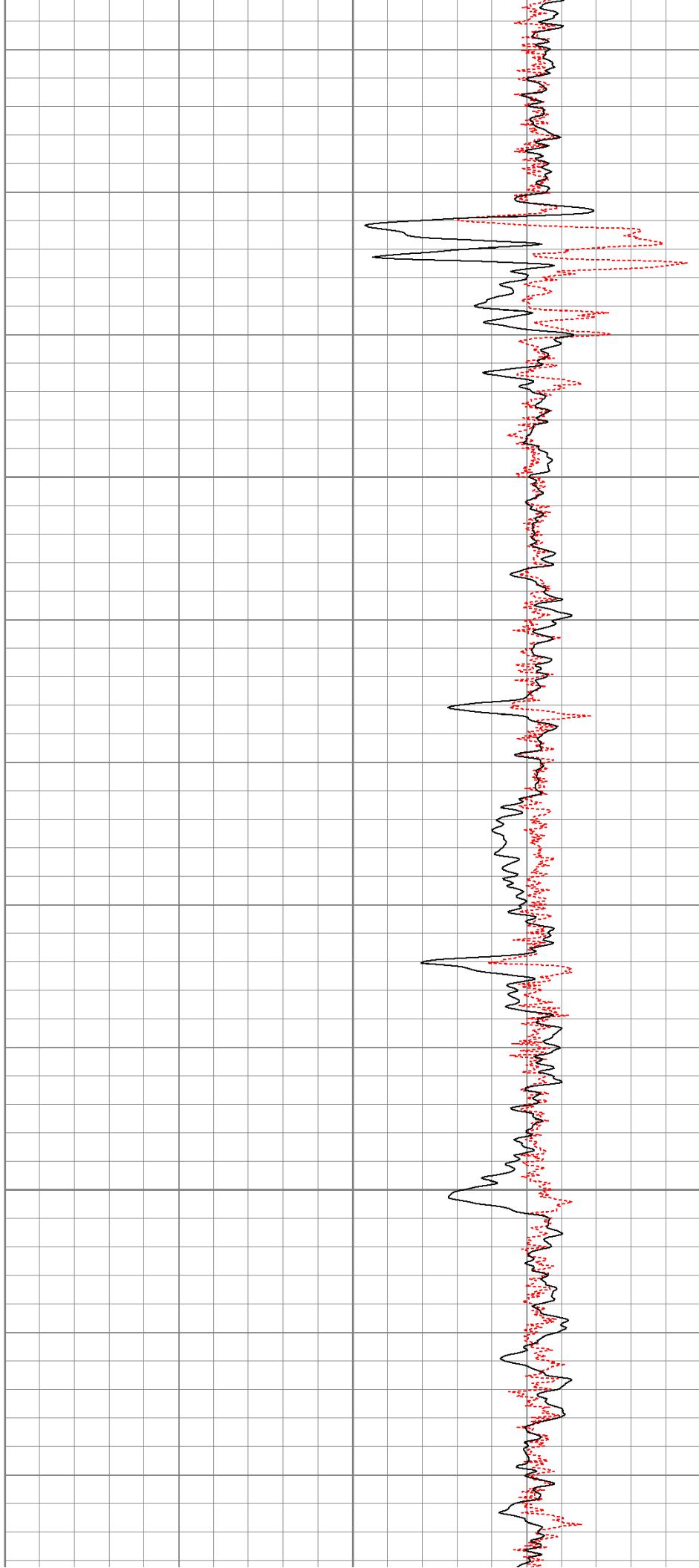
2100

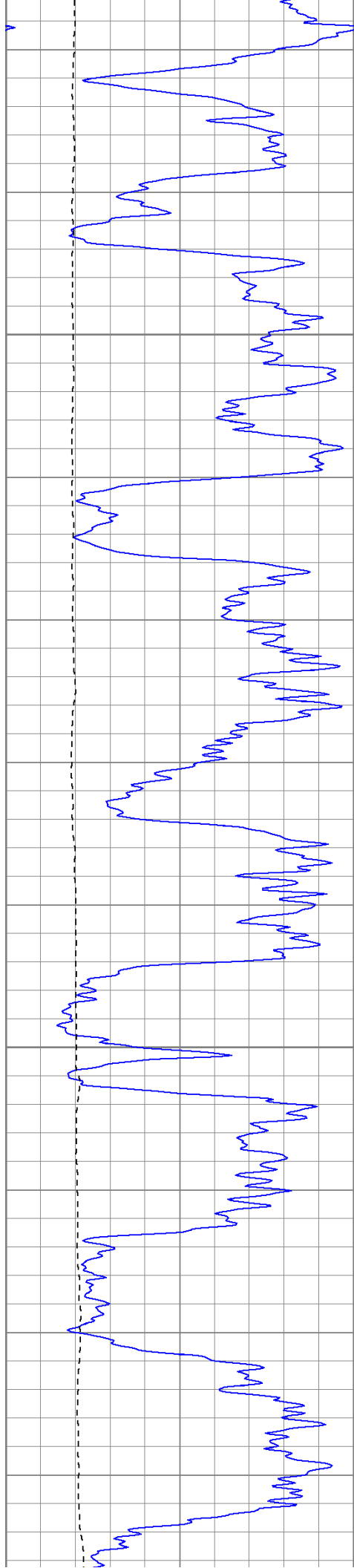




2150

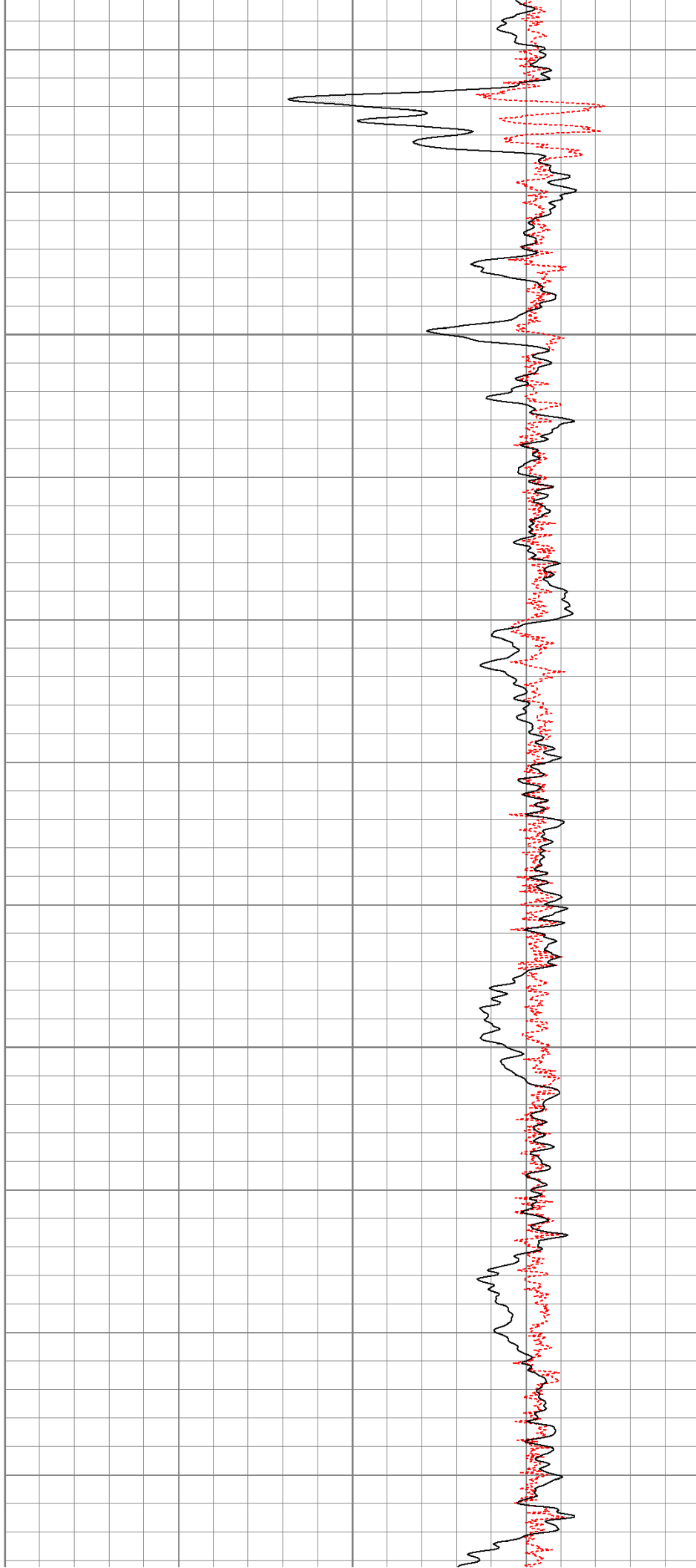
2200

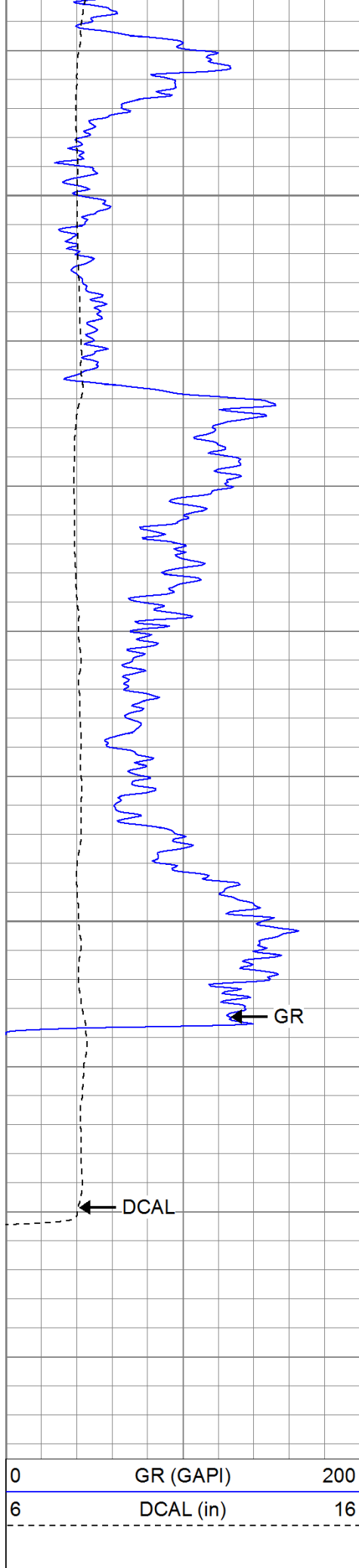




2250

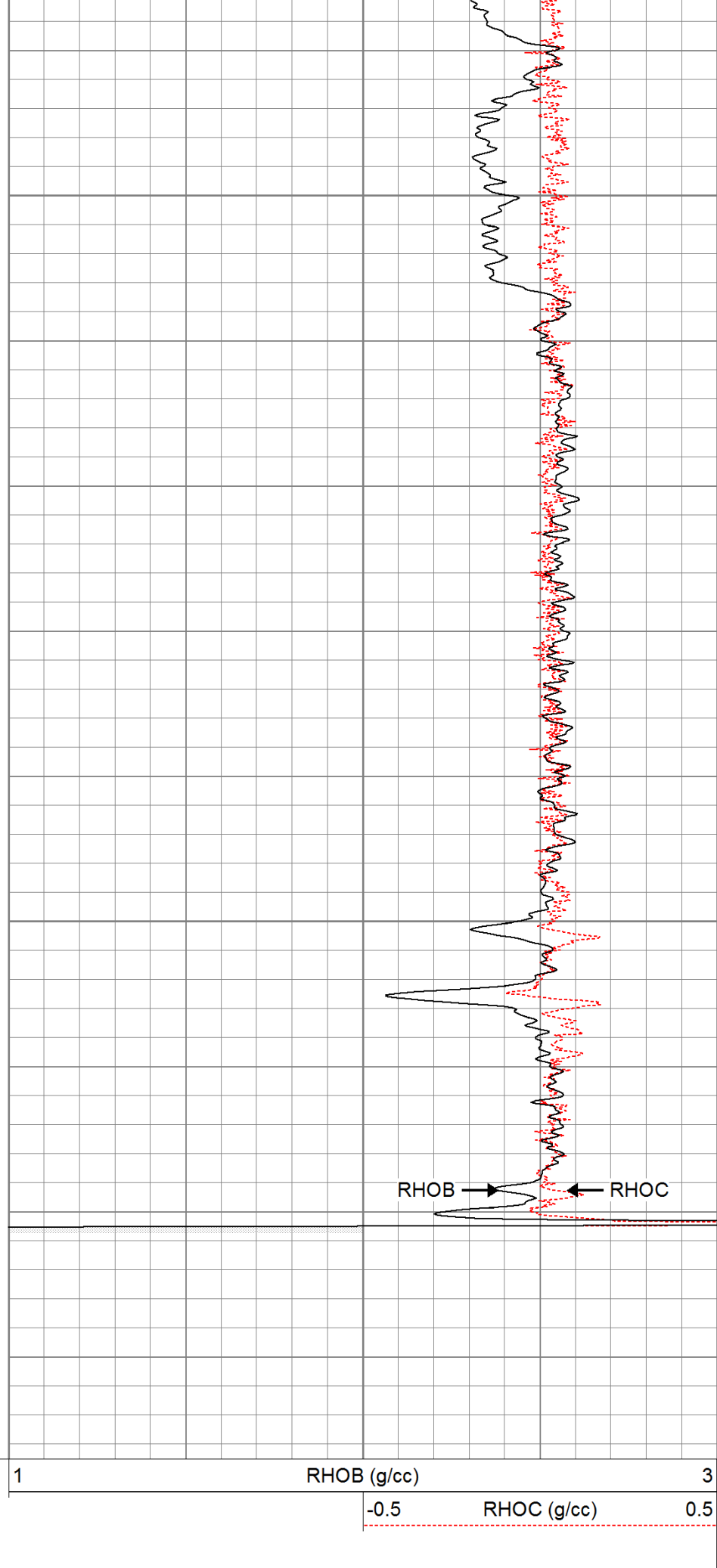
2300





2350

2400



Calibration Report	
Database File:	talontr.db
Dataset Pathname:	pass1
Dataset Creation:	Mon Aug 01 00:17:51 2011 by Log Open-Cased 110302

Induction Tool Calibration Report

Serial Number:	903
Tool Model:	Probe
Downhole Cal Performed:	Sat Jun 18 15:02:12 2011
Surface Cal Performed:	Sat Jun 18 17:40:00 2011
After Survey Verification Performed:	

Surface Calibration:	Air	Loop	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	-0.045	0.642	V
Internal Reference:	Zero	Cal	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	0.006	0.641	V

Downhole Calibration:	Internal Zero	Internal Cal	
Conductivity Reference:	-0.702	499.904	mmho
Conductivity Reading:	-0.082	503.319	V
Short Normal Reference:	0.000	20.000	Ohm-m
Short Normal Reading:	0.006	0.233	V

Results:	Gain	Offset
Loop Conductivity:	728.211	32.770
Downhole Correction:	0.994	-0.621
Short Normal Resistivity:	88.245	-2.000

After Survey Verification	Internal Zero	Internal Cal	
Conductivity Reading:	0.000	0.000	V
Conductivity Result:	0.000	0.000	mmho
Short Normal Reading:	0.000	0.000	V
Short Normal Result:	0.000	0.000	Ohm-m

Compensated Density Calibration Report

Serial-Model:	901-2.75POH
Source / Verifier:	/
Master Calibration Performed:	Wed Jun 08 09:11:26 2011
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1001.79	578.48	cps
Aluminum	2.590	g/cc	180.36	300.39	cps
Spine Angle = 69.08			Density/Spine Ratio = 0.479		
	Size		Reading		
Small Ring	8.15	in	2.50	V	
Large Ring	16.00	in	4.57	V	




Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1001.79	578.48	cps
Aluminum	2.590	g/cc	180.36	300.39	cps
Spine Angle = 69.08			Density/Spine Ratio = 0.479		
	Size		Reading		
Small Ring	8.15	in	2.50	V	
Large Ring	16.00	in	4.57	V	

Before Survey Verification			
Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Before Survey Verification			
Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

<u>Target</u>		<u>Measured</u>	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc
Neutron Calibration Report			
Serial Number:	803		
Tool Model:	2.75POH		
Performed:	Wed Jun 08 13:12:55 2011		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	
Gamma Ray Calibration Report			
Serial Number:	804		
Tool Model:	2.75POH		
Performed:	Tue Jun 14 18:09:29 2011		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.6500	GAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	29.58		None	0.75	1.50	5.00
			GR-2.75POH (804) Probe 2.75" Probe Open Hole Gamma Ray	3.73	2.75	43.00
NEU	24.04		NEU-2.75POH (803) Probe Epithermal	4.75	2.75	58.00
			CDL-2.75POH (901) Probe	8.43	2.75	106.00
LSD	16.21					
DCAL	15.94					
SSD	15.69					

