

Company	Pioneer Natural Resources	Company	Pioneer Natural Resources
Well	Bilbo Federal 11-24	Well	Bilbo Federal 11-24
Field	Purgatoire River	Field	Purgatoire River
County	Las Animas	County	Las Animas
State	Colorado	State	Colorado
Location:	API #: 05 071 09804 00	Other Services	SIL
Permanent Datum	592' FNL & 264' FWL	Elevation	
Log Measured From	SEC 24 TWP 32S RGE 66W	K.B. 7579'	
Drilling Measured From		D.F. -----	
		G.L. 7570'	
Date	12-8-11		
Run Number	One		
Depth Driller	2390'		
Depth Logger	2389'		
Bottom Logged Interval	2377'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 922'		
Casing Logger	921'		
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	10:15P.M.		
Time Logger on Bottom	3:15 A.M.		
Maximum Recorded Temperature	///		
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

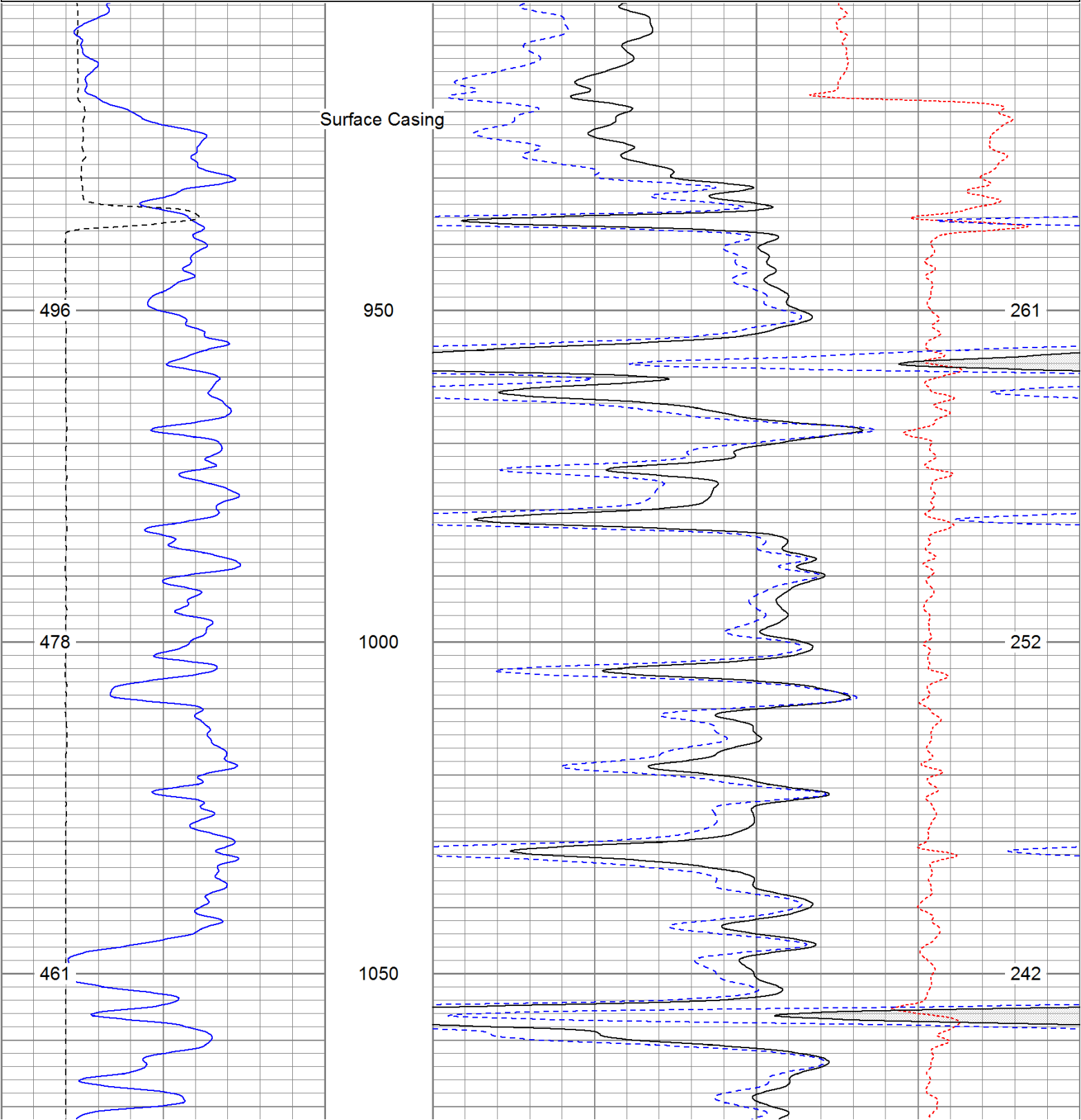
Density Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5.5" Casing.

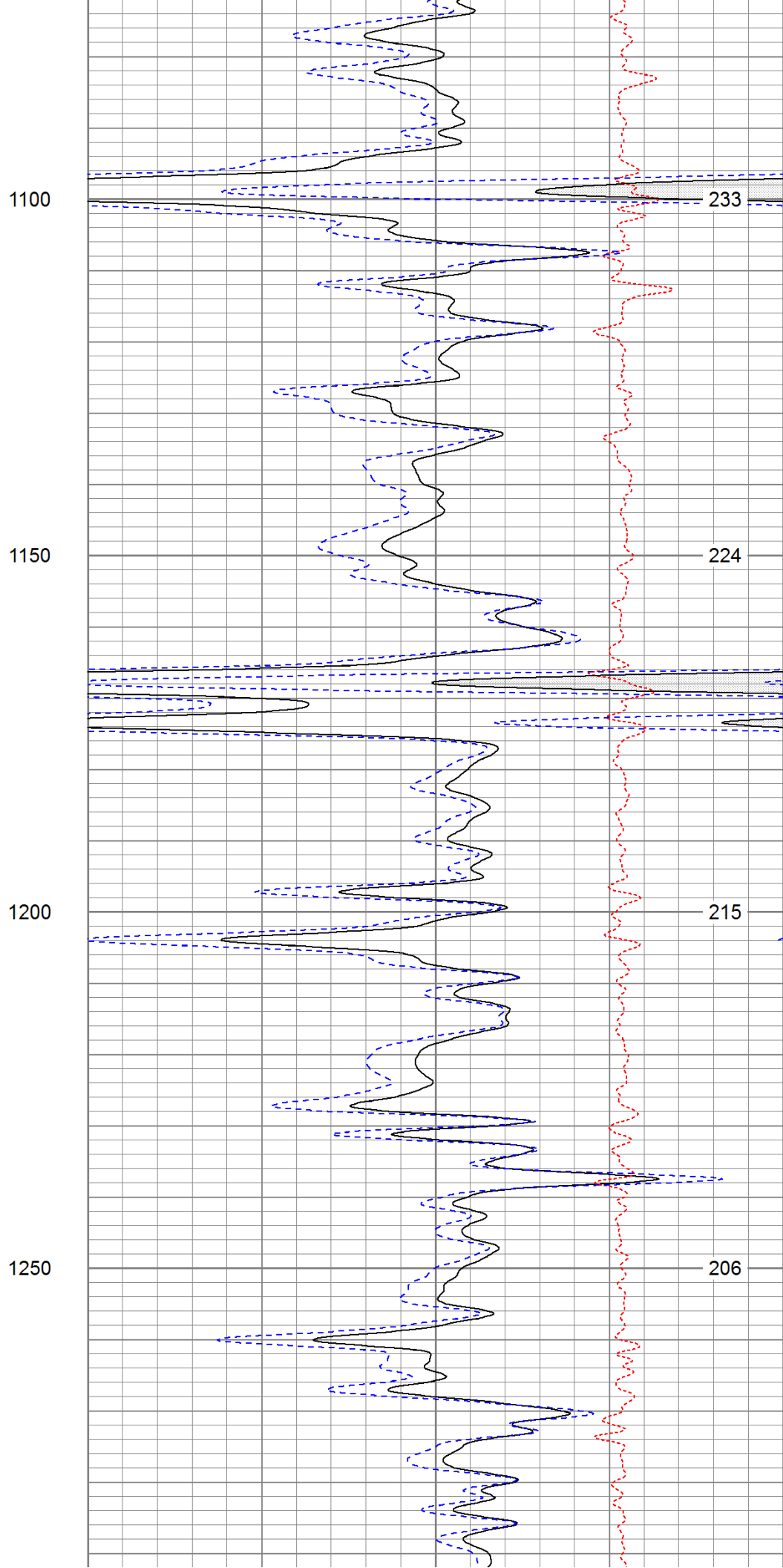
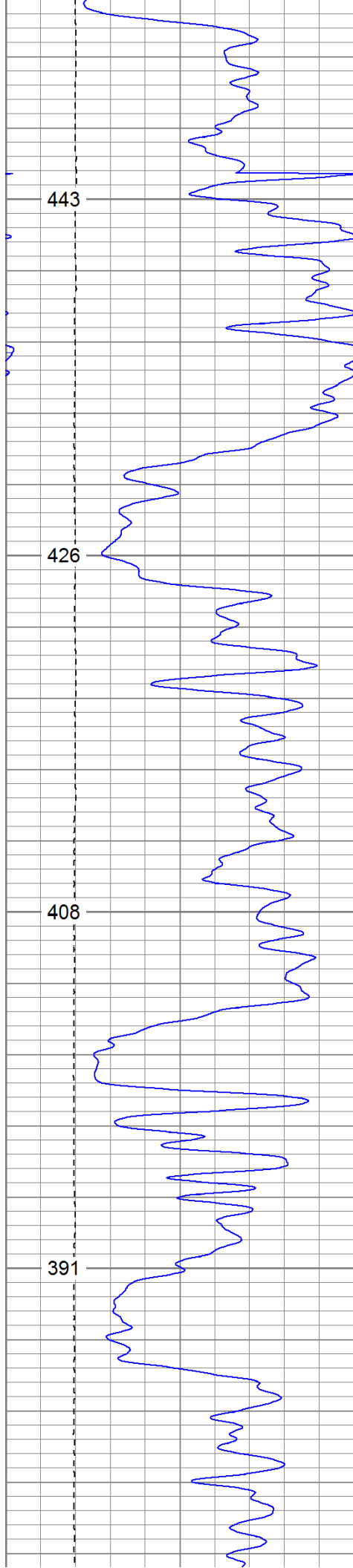
Directions:

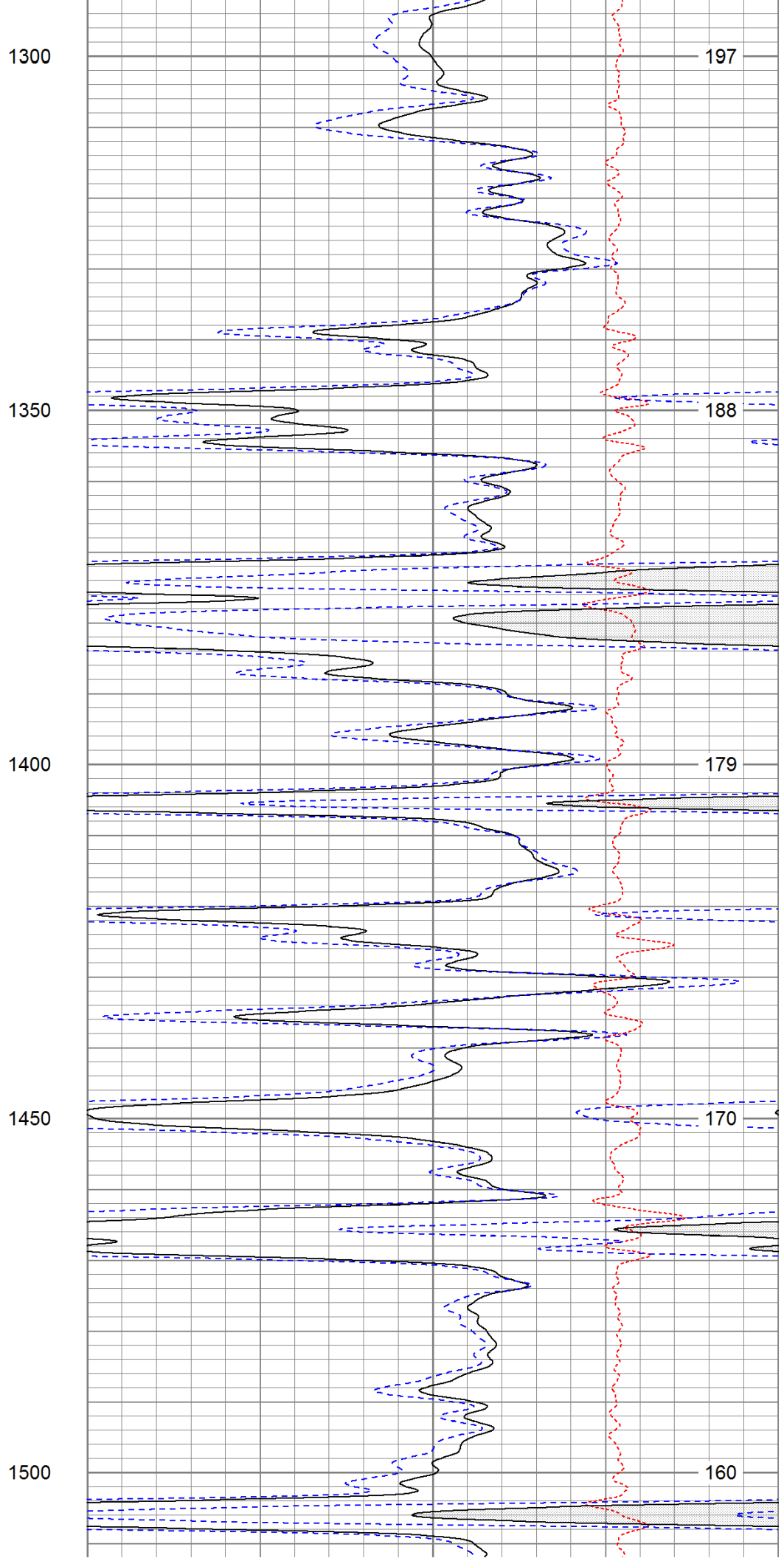
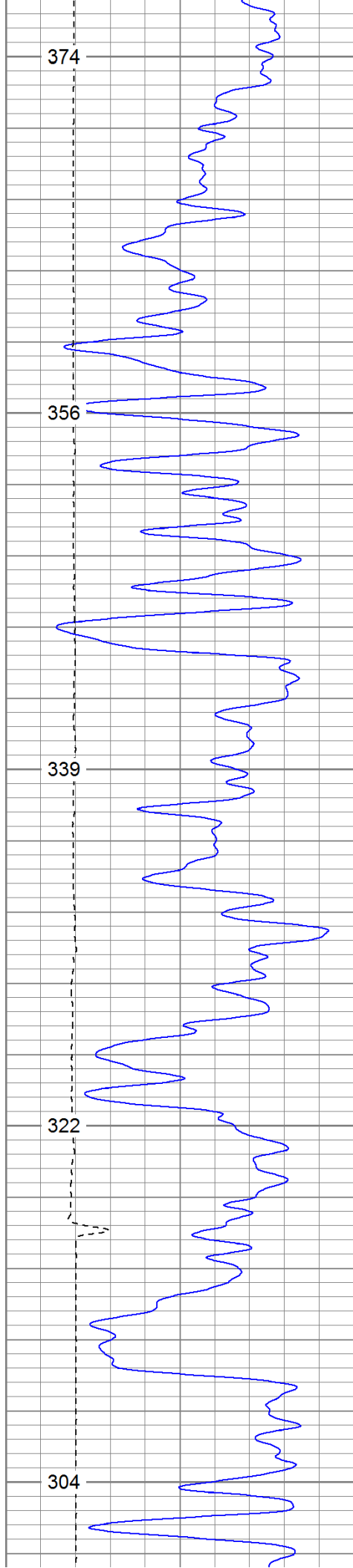
Bon Carbo, right at post office, left at Polly WD, at T go right, go thru gate, go to top of hill, at y go right, next Y go right, drive thru right side of location, follow rd dead end on location.

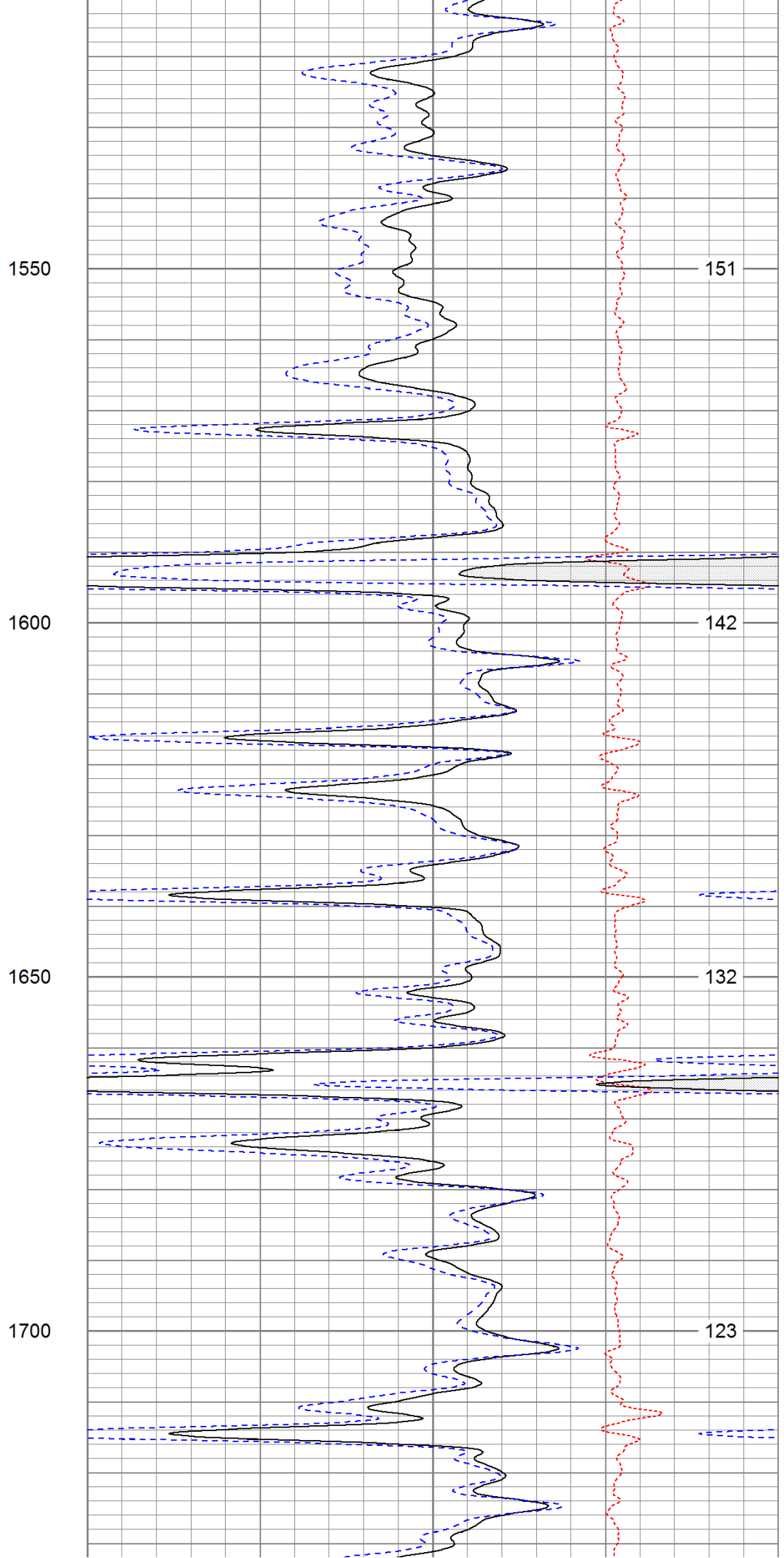
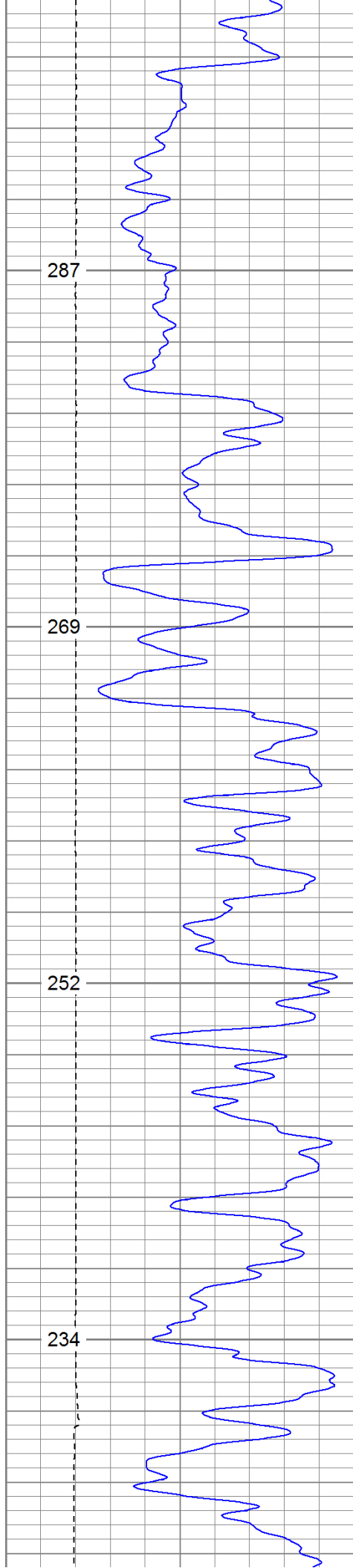
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Dataset Pathname: pass3.1
Presentation Format: cdl
Dataset Creation: Thu Dec 08 04:40:38 2011 by Calc SOC 111108
Charted by: Depth in Feet scaled 1:240

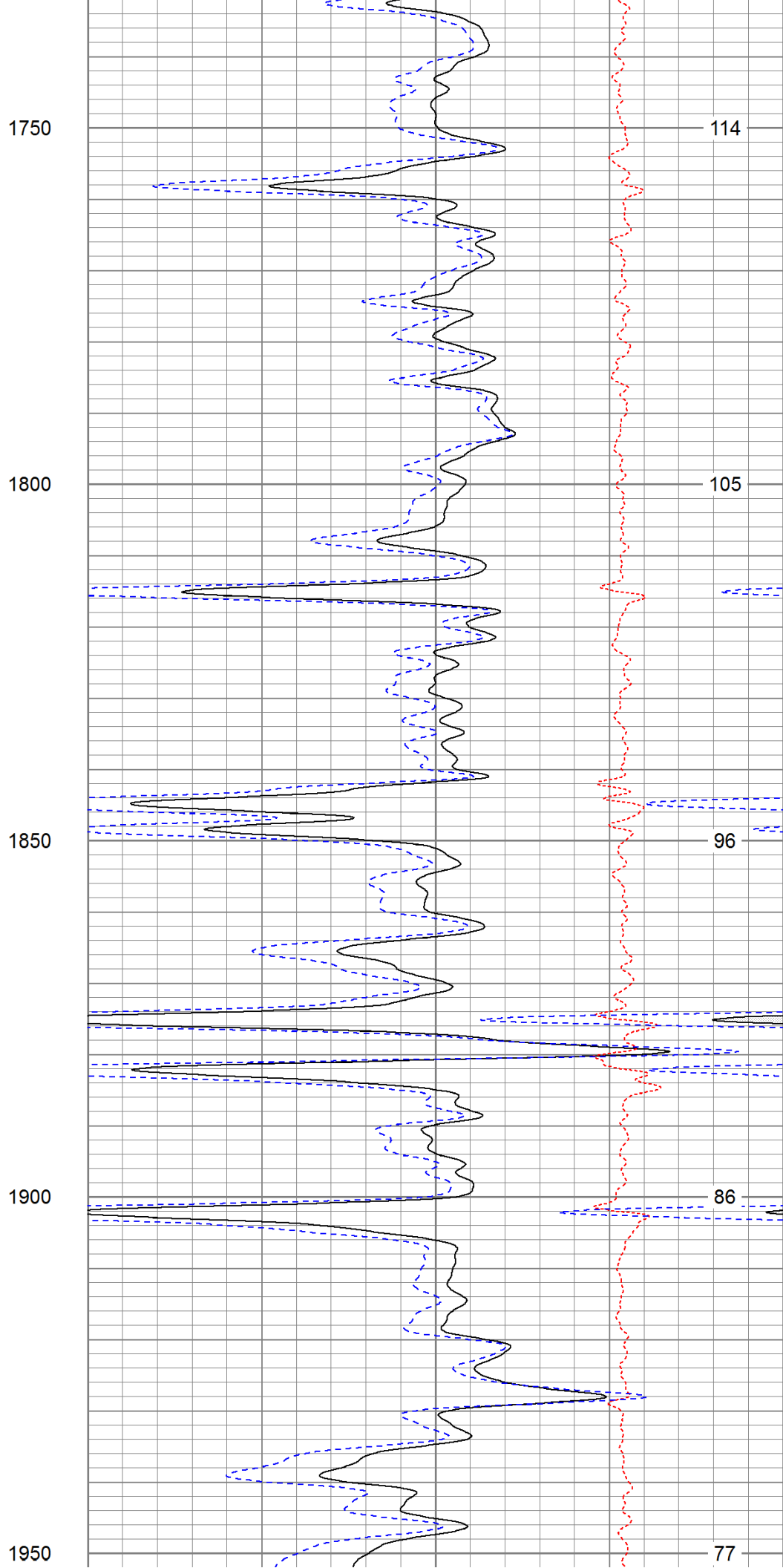
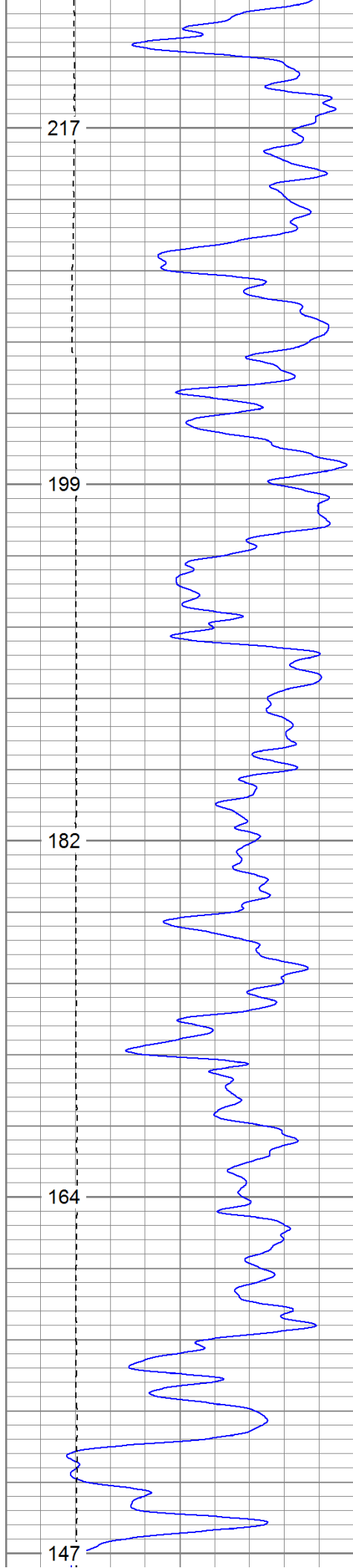
0	GR (GAPI)	200	2	RHOB (g/cc)		3
6	DCAL (in)	16	1	RHOB (g/cc)		2
TBHV (ft3)			30	DPOR (pu)		-10
				-0.5	RHOC (g/cc)	0.5
				7000	LTEN (lb)	0
						ABHV (ft3)

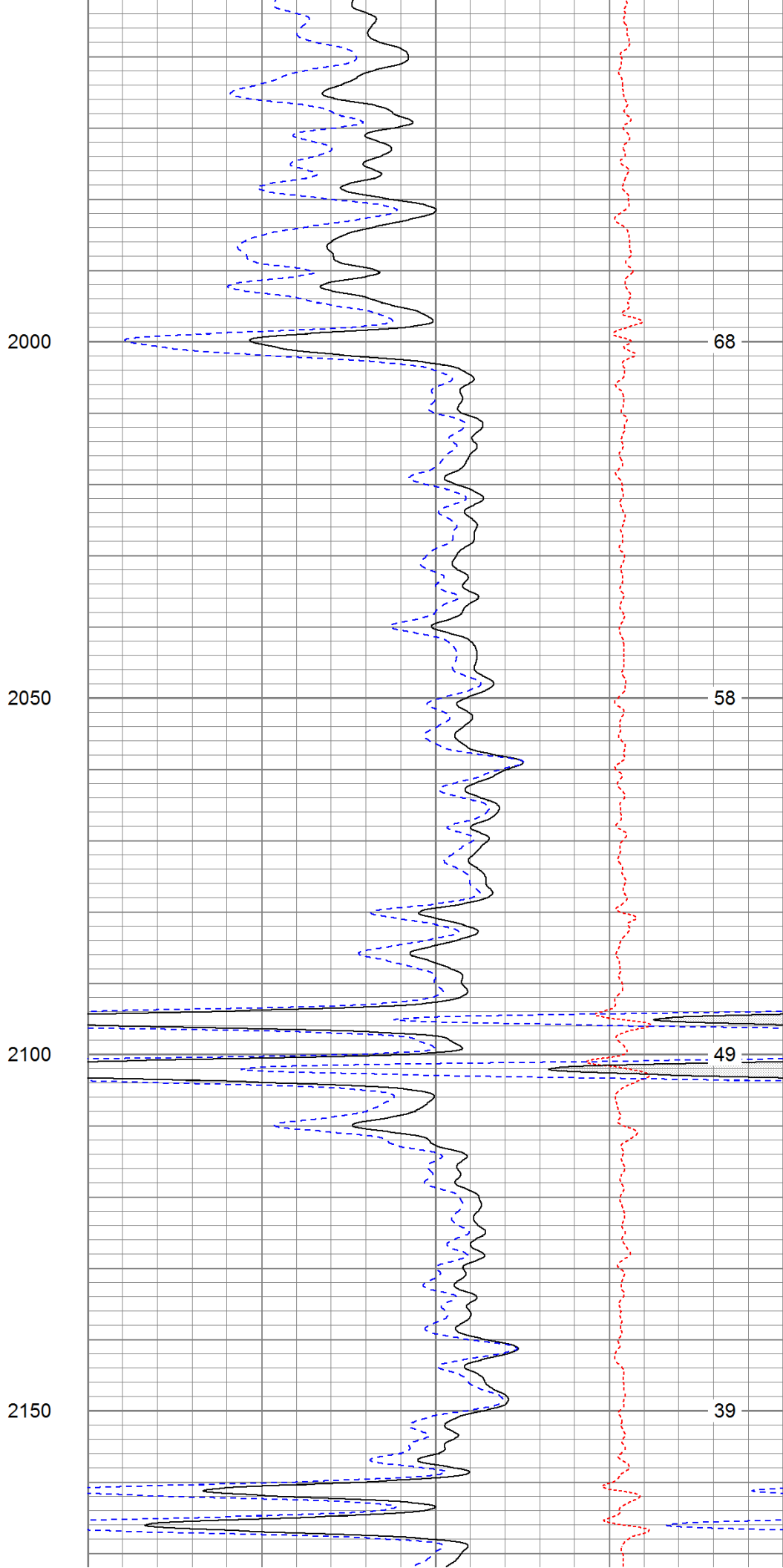
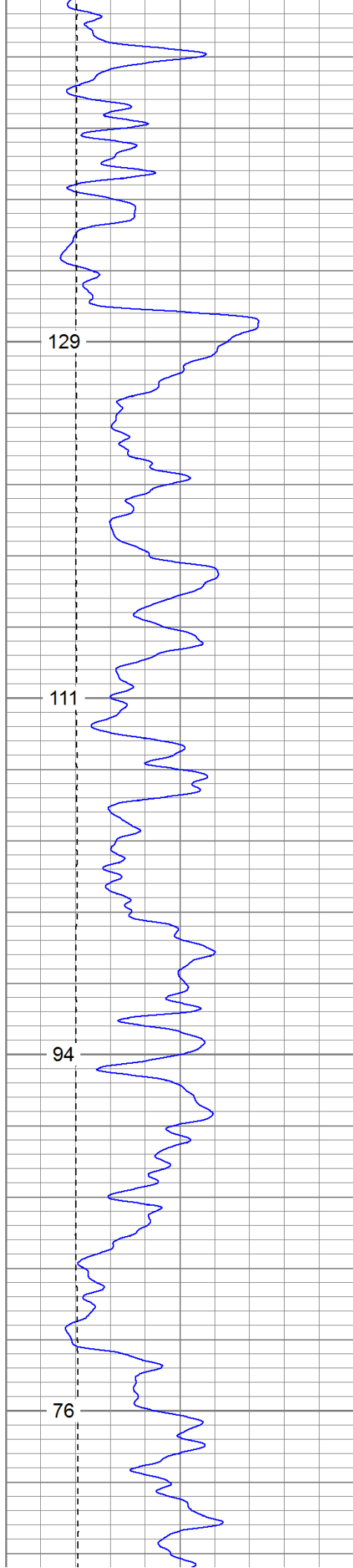


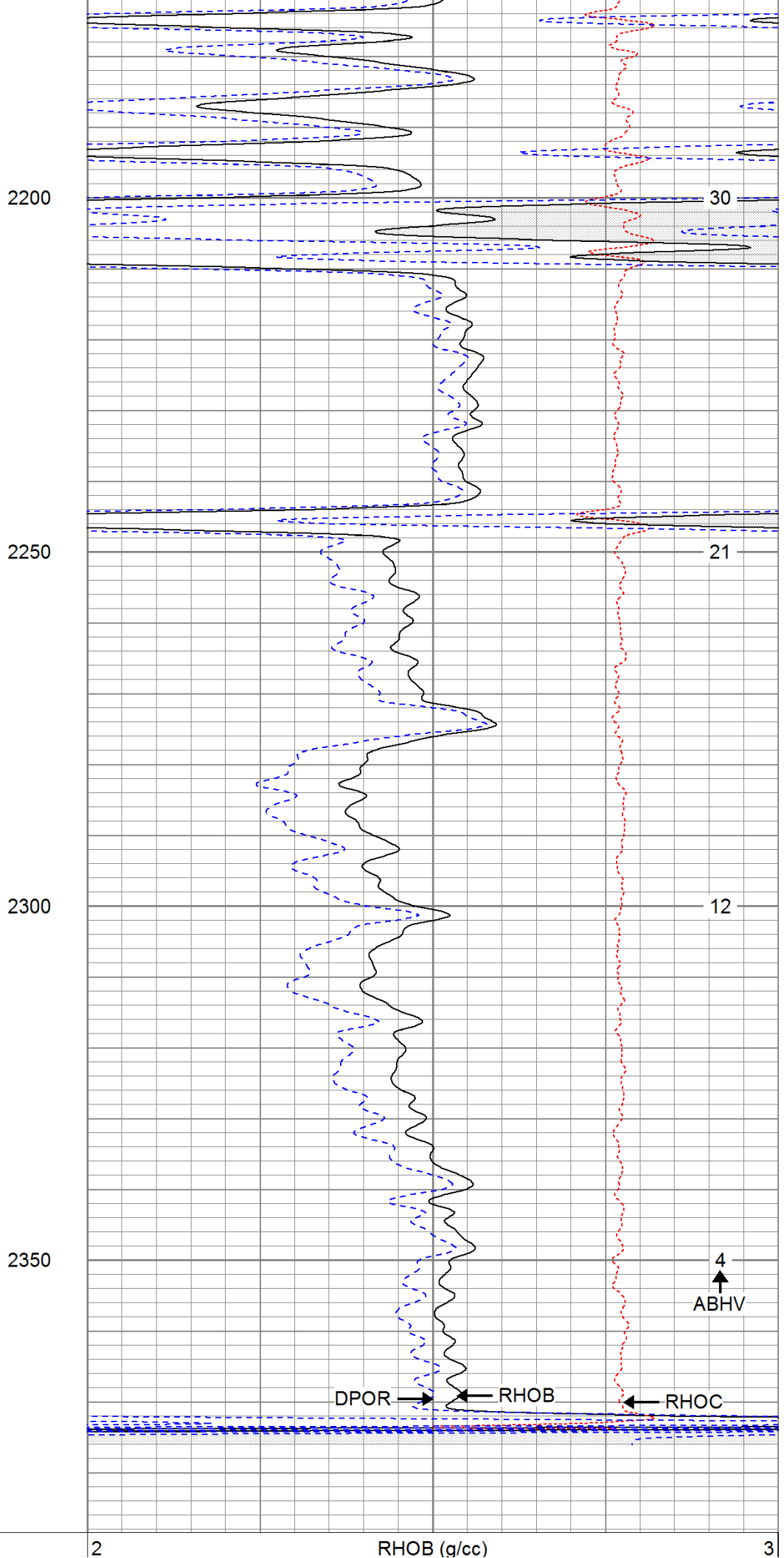
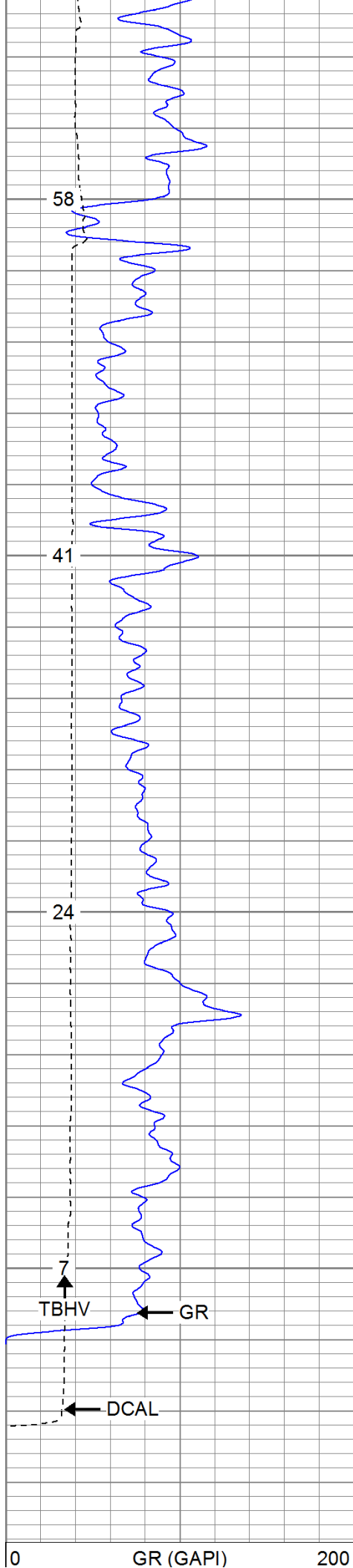












6	DCAL (in)	16
TBHV (ft3)		

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

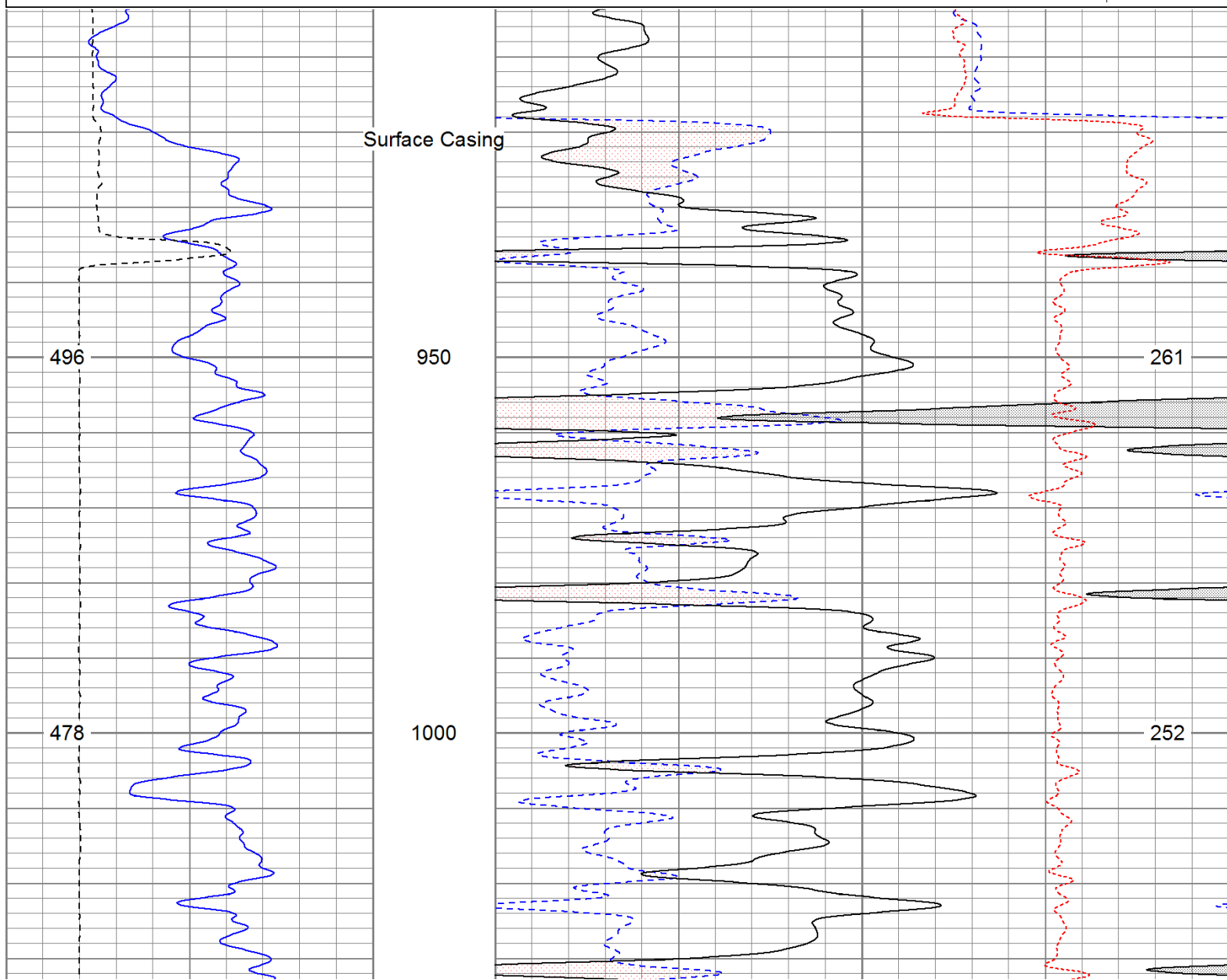


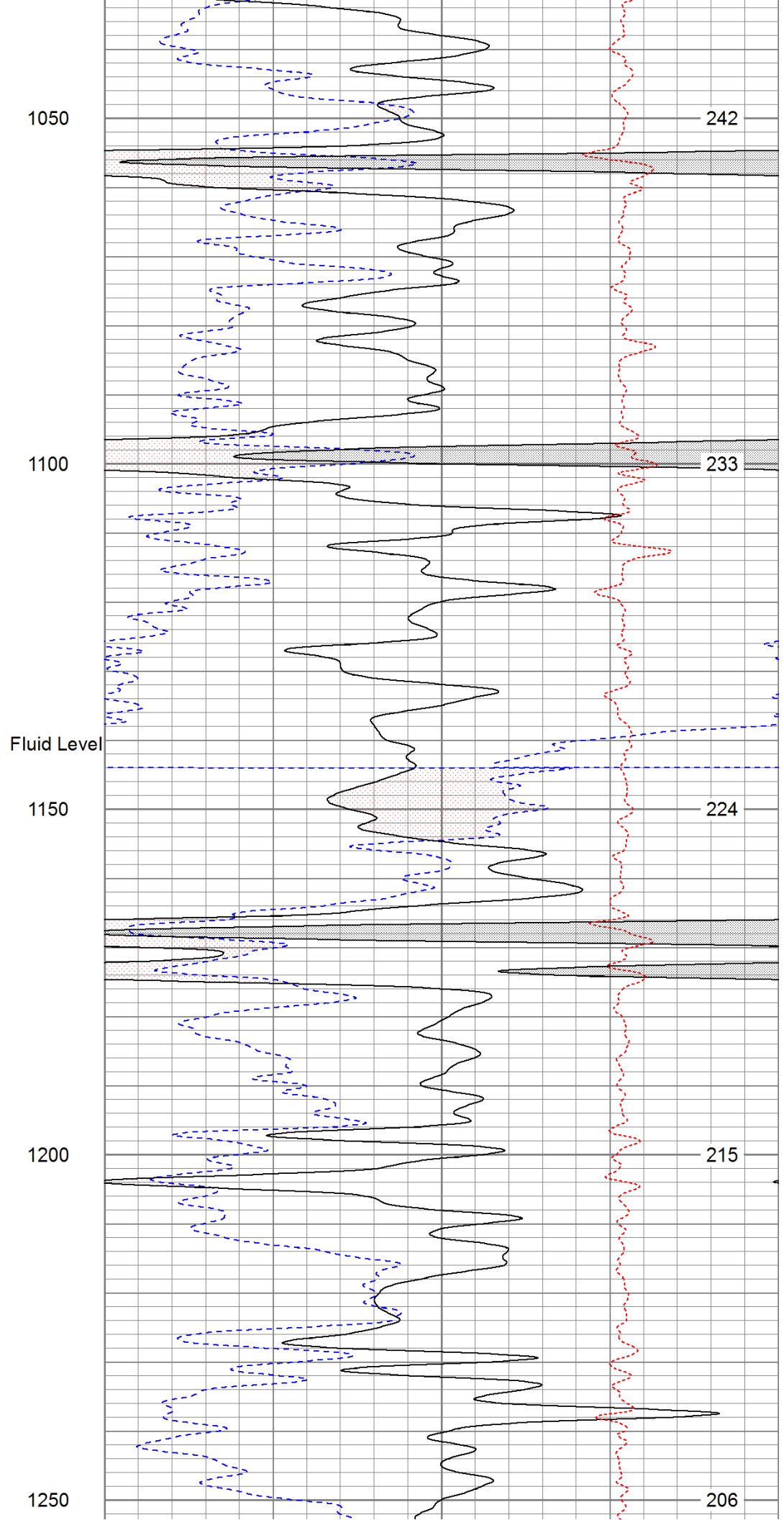
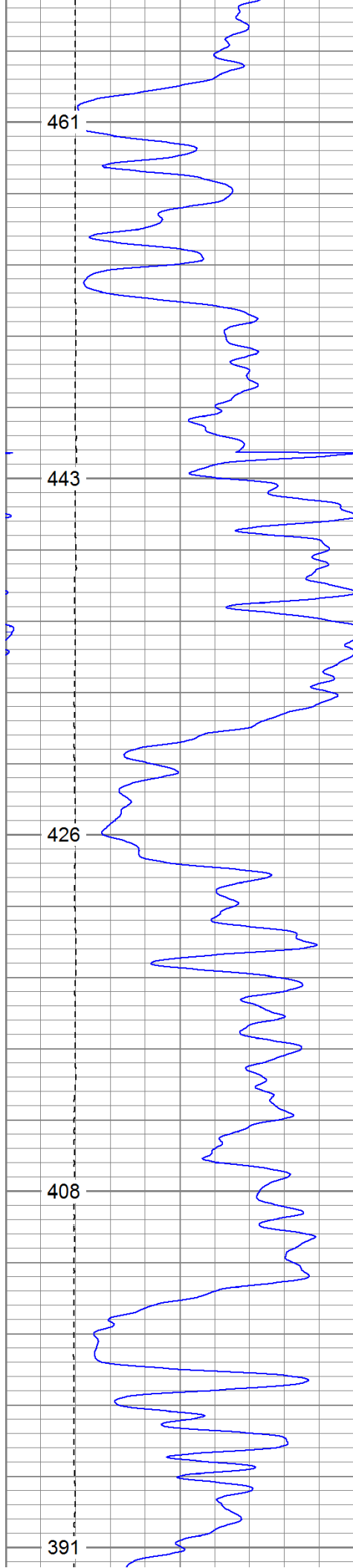
Main Pass

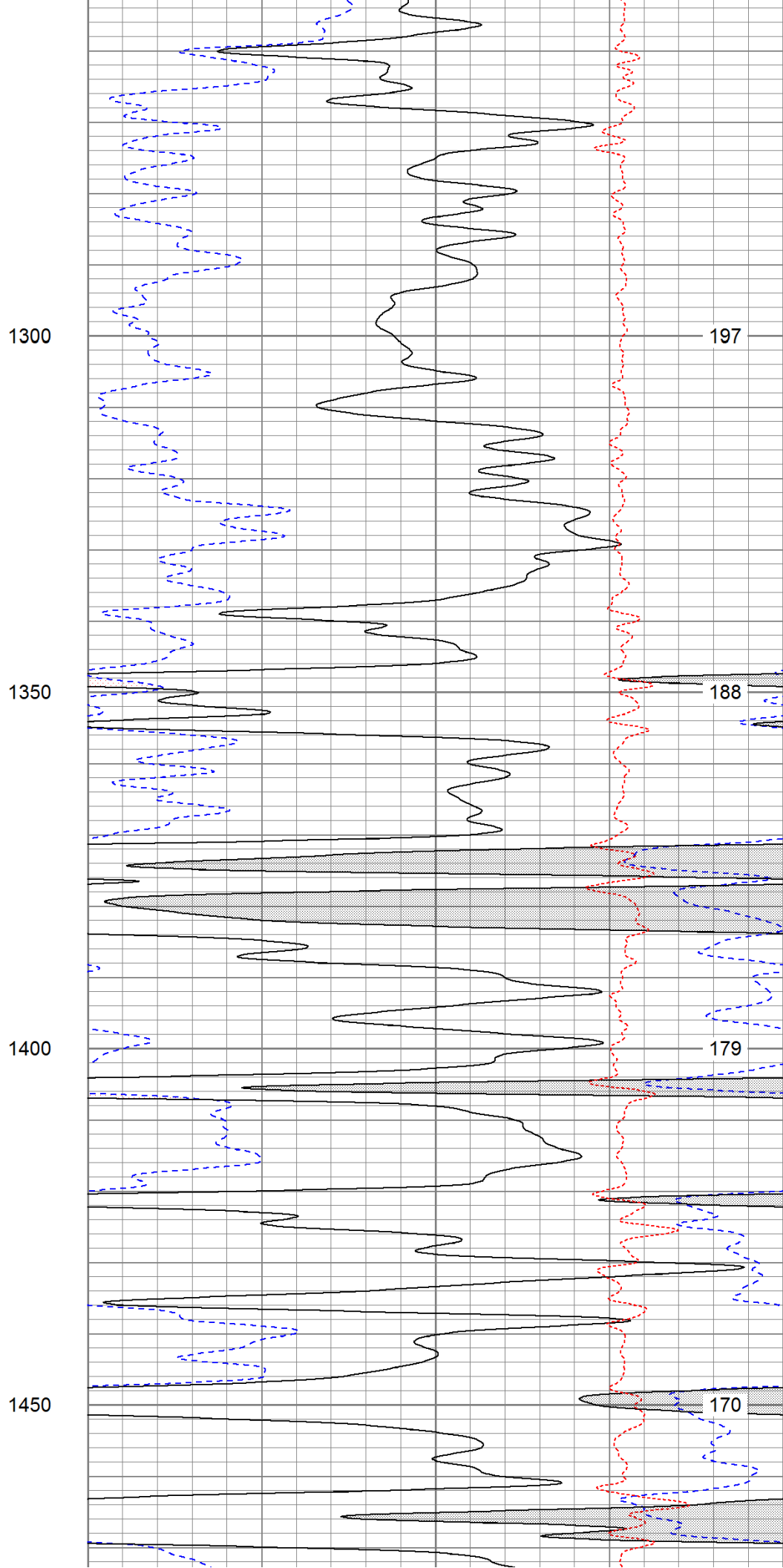
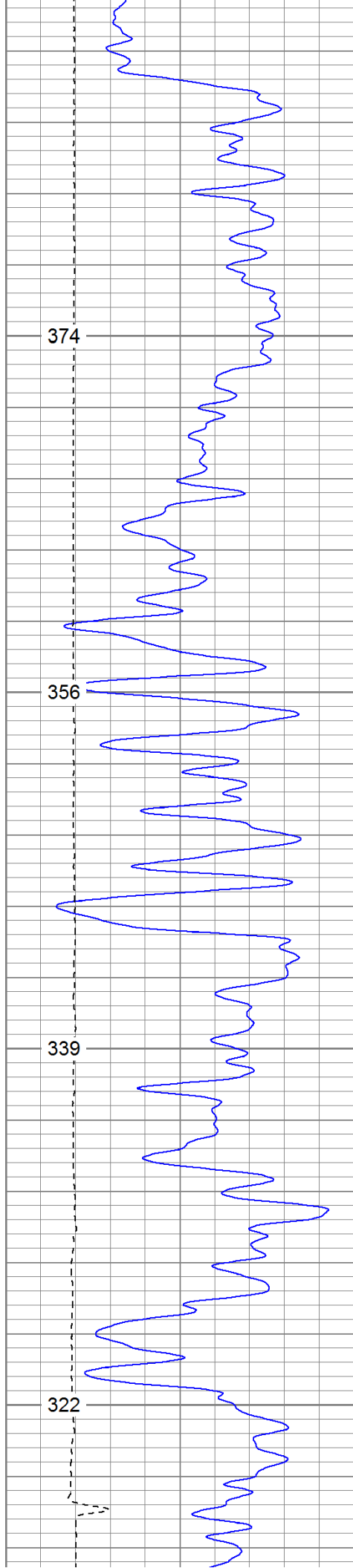
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 Presentation Format: cdnl
 Dataset Creation: Thu Dec 08 04:40:38 2011 by Calc SOC 111108
 Charted by: Depth in Feet scaled 1:240

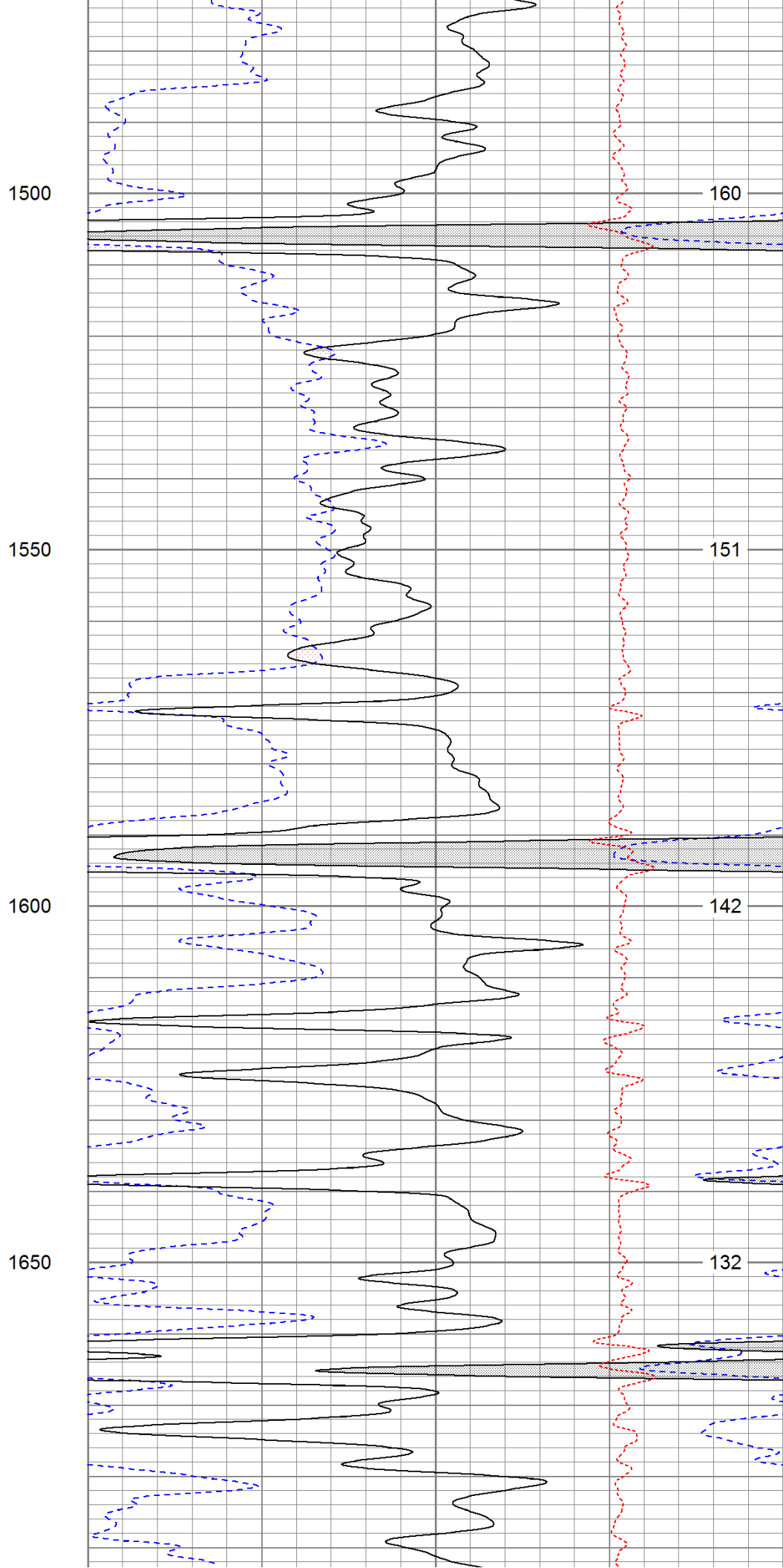
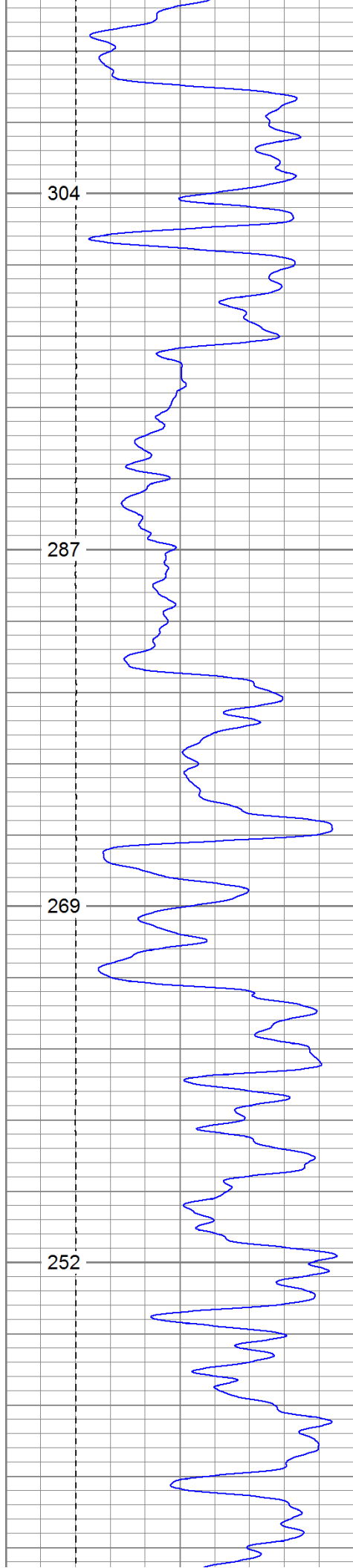
0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

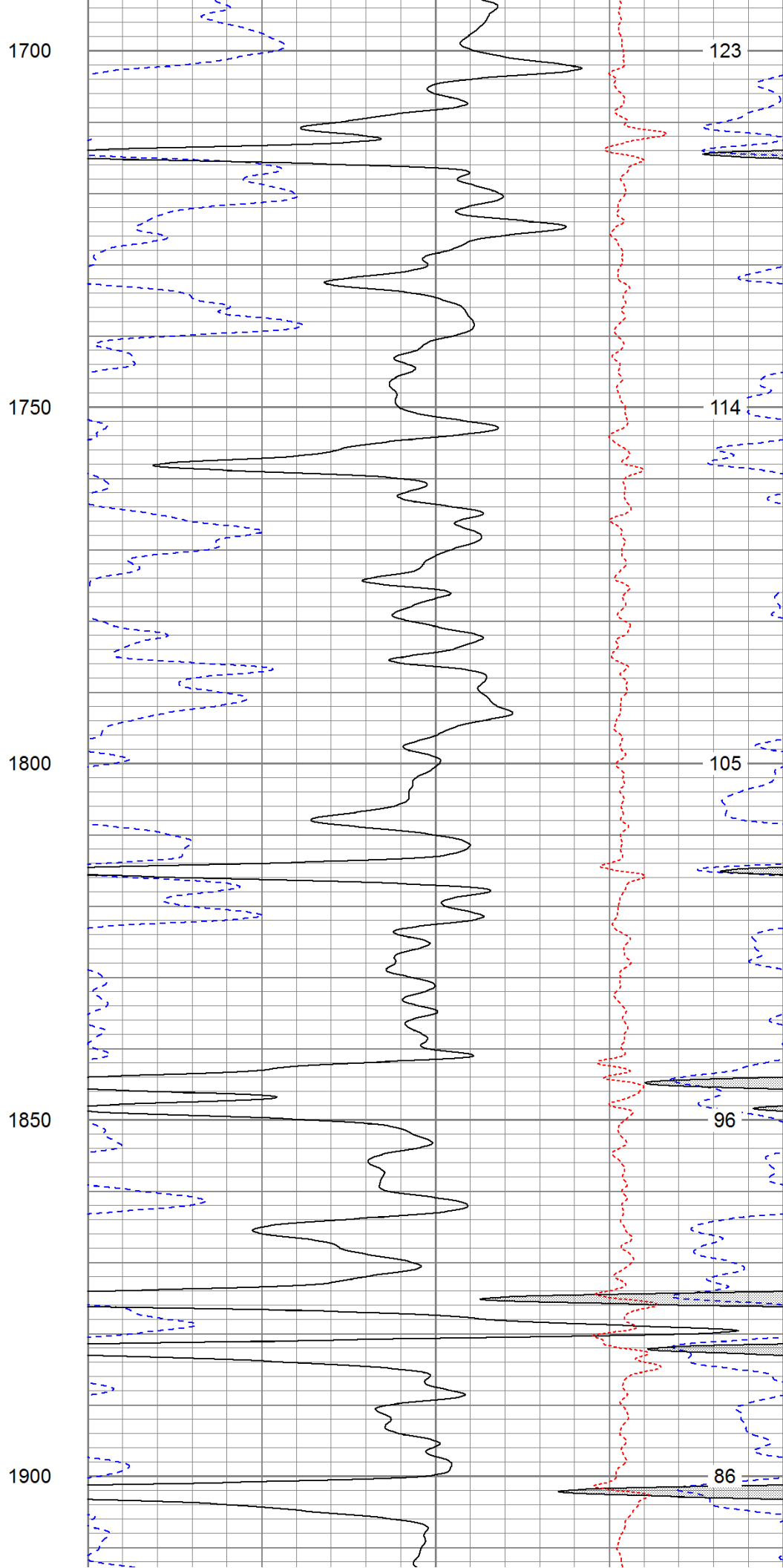
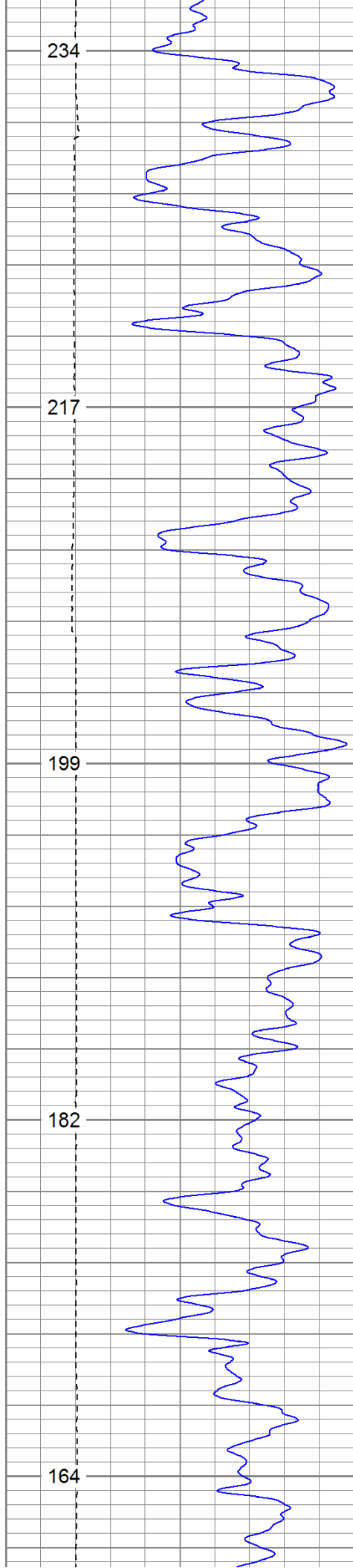
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
	ABHV (ft3)	

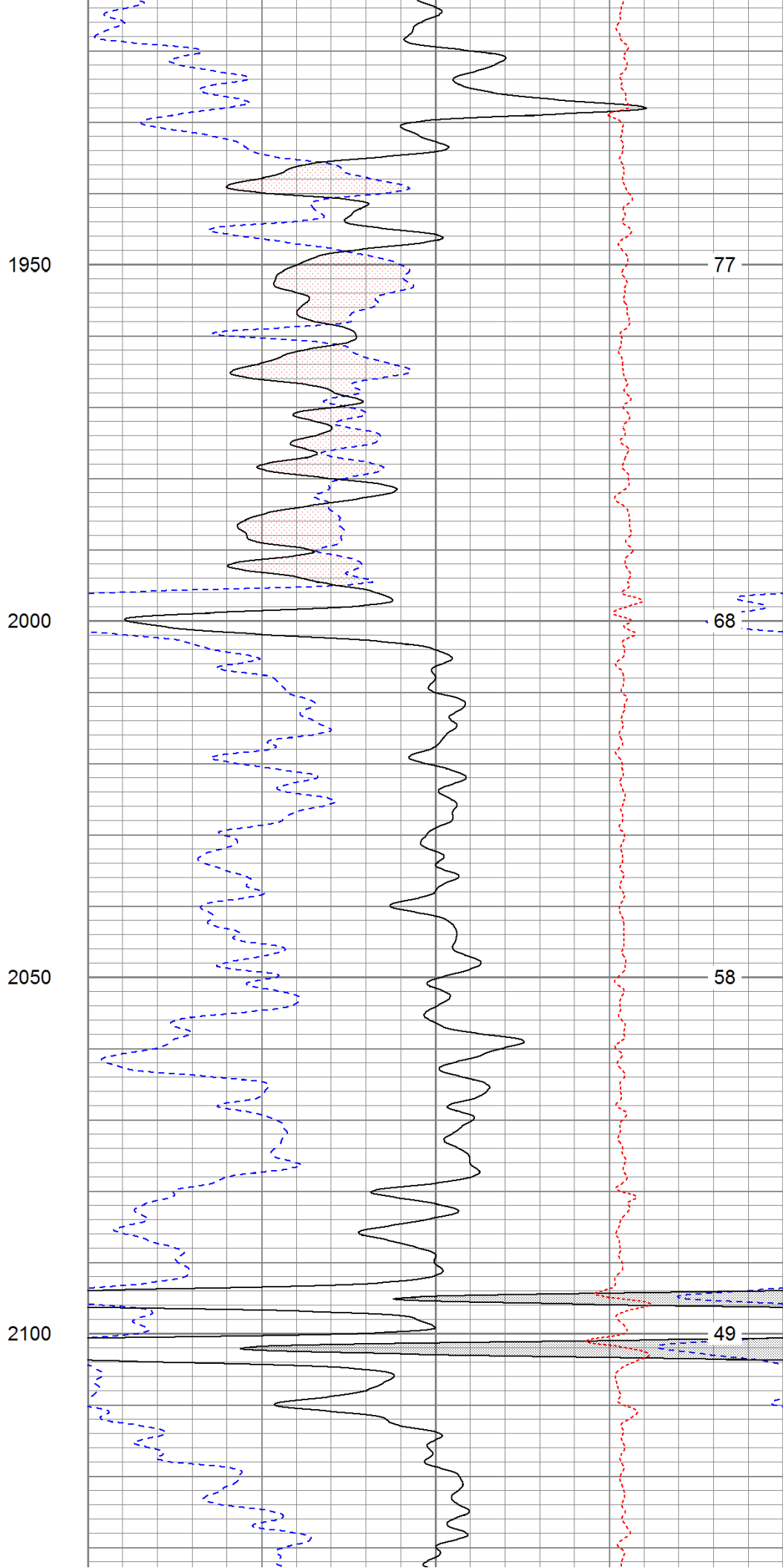
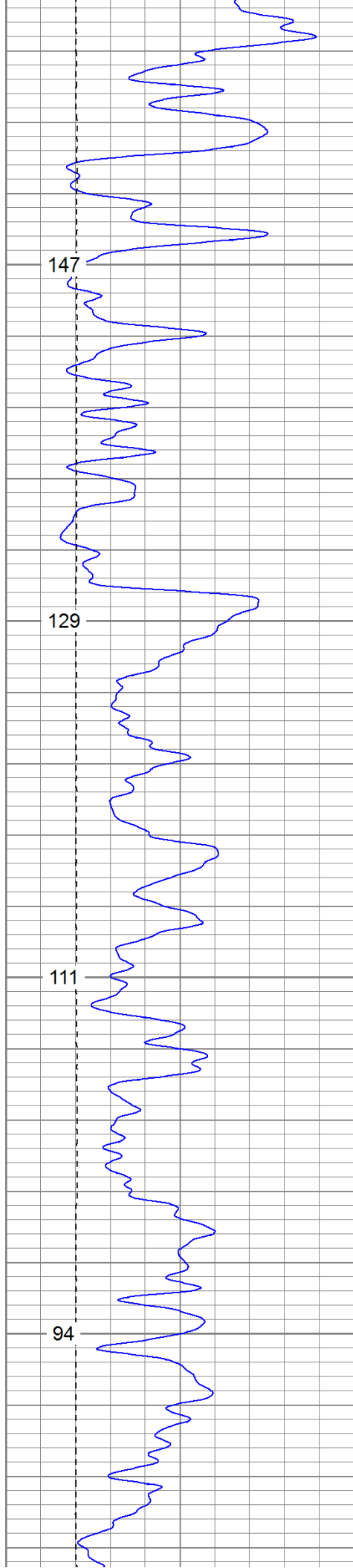


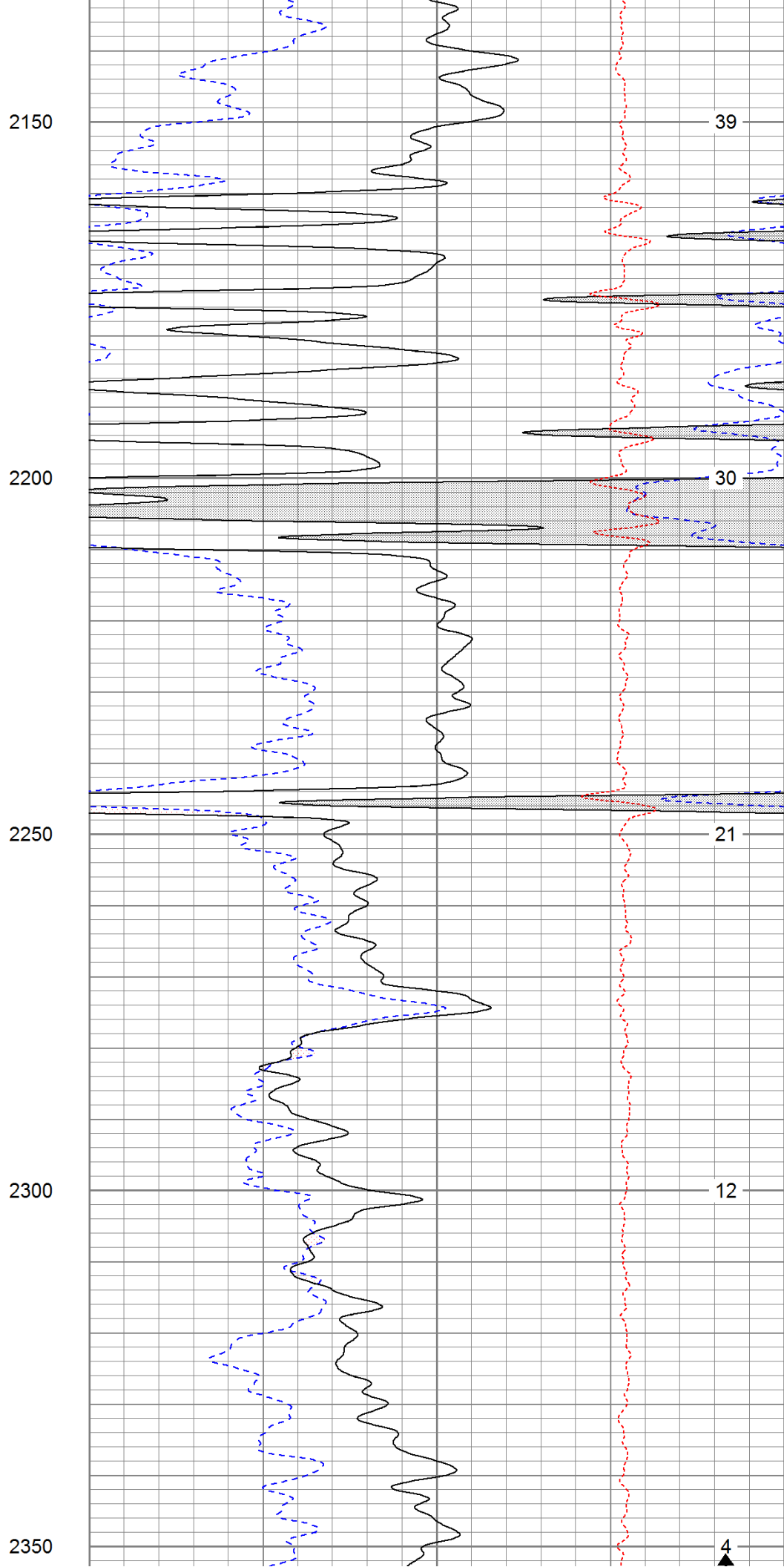
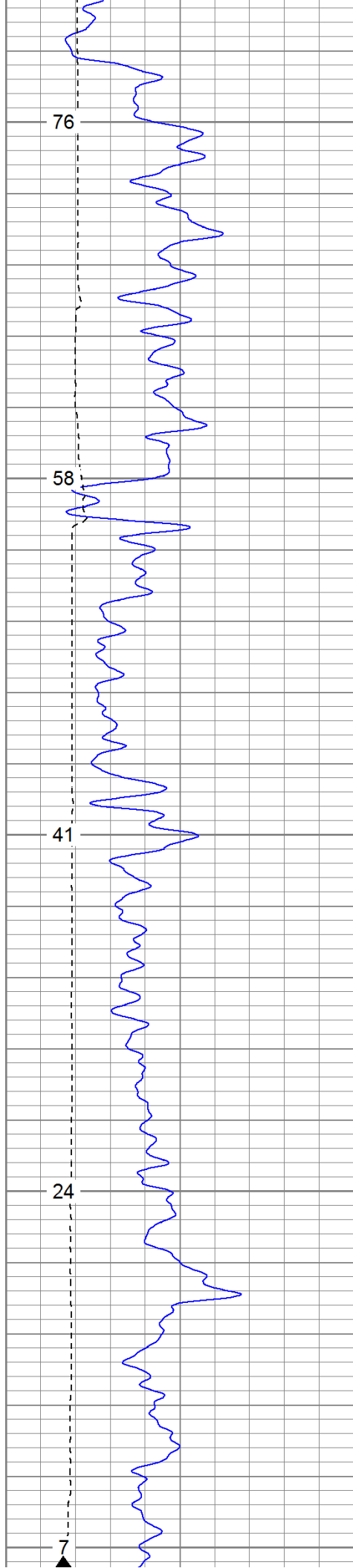


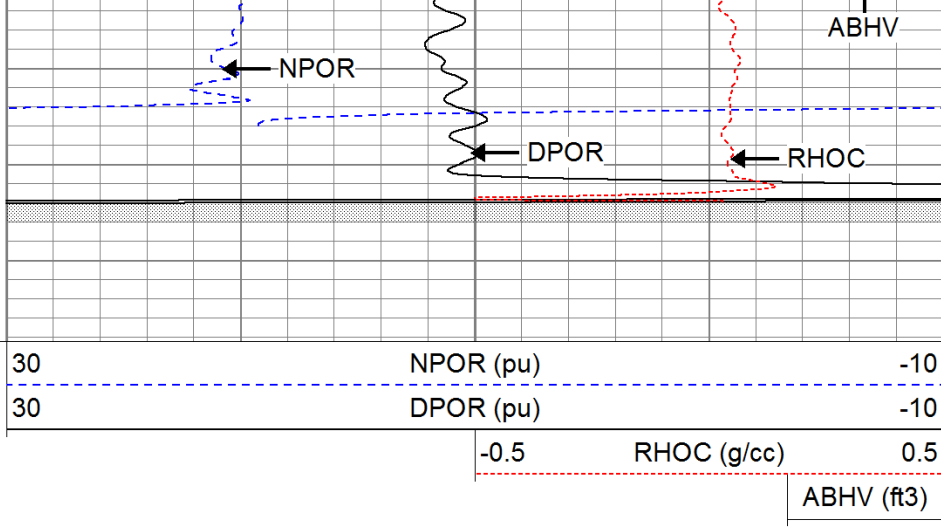
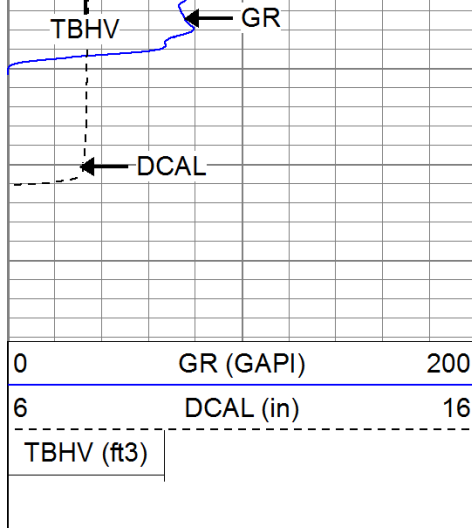






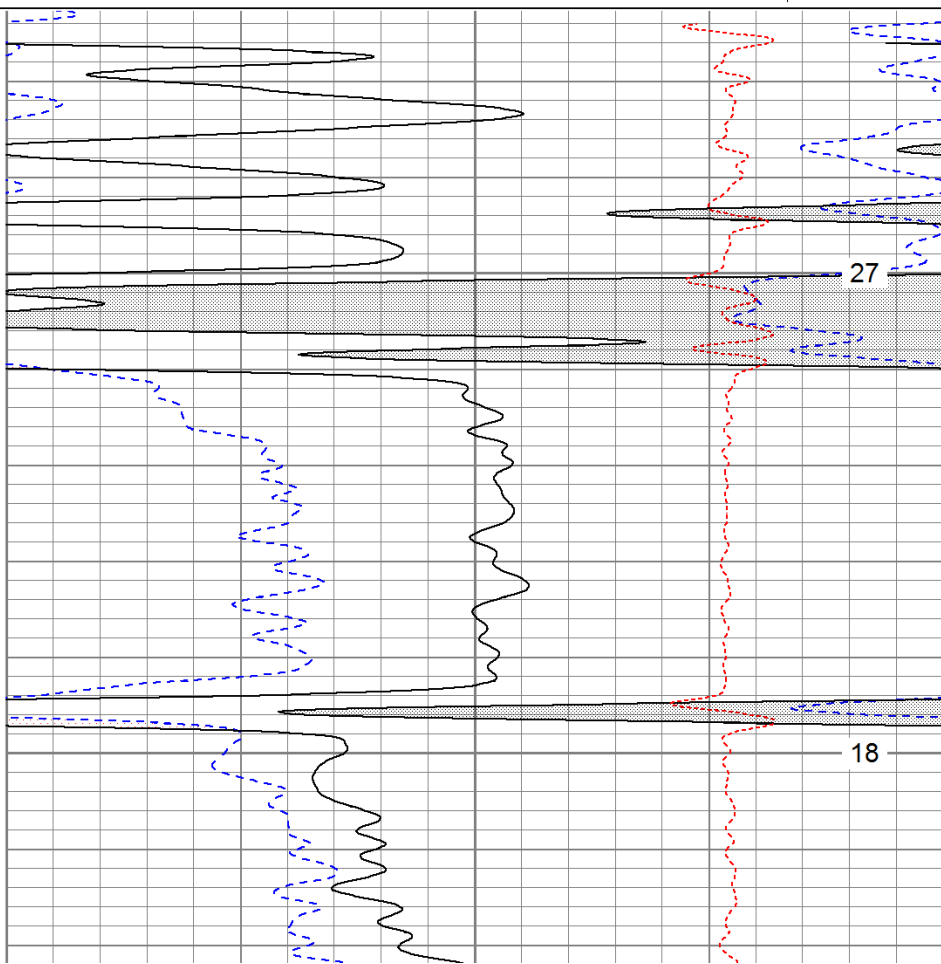
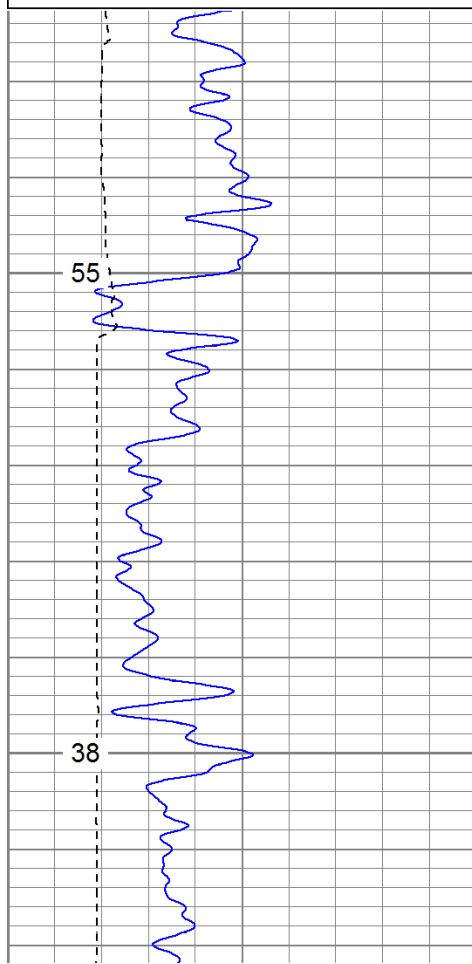
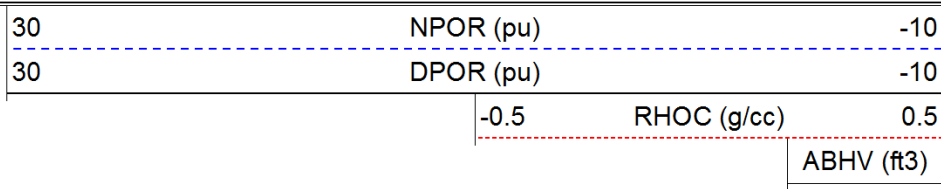
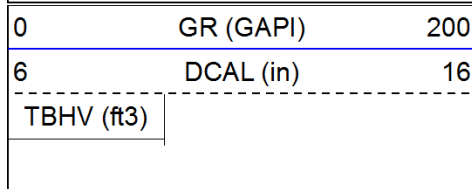


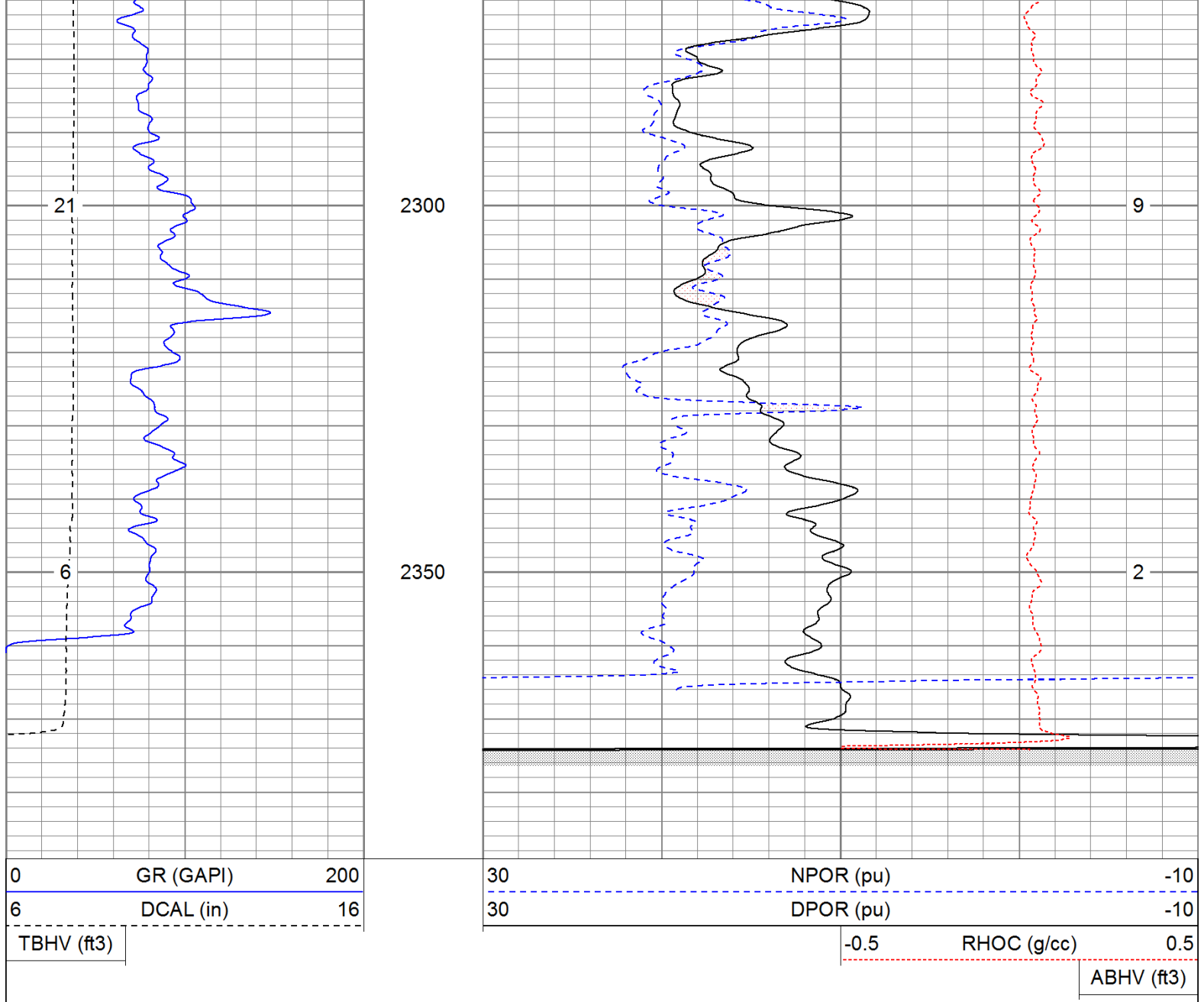




Repeat Pass

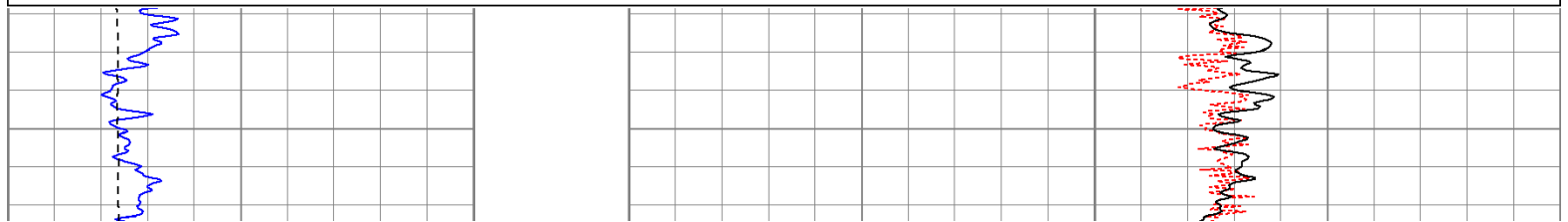
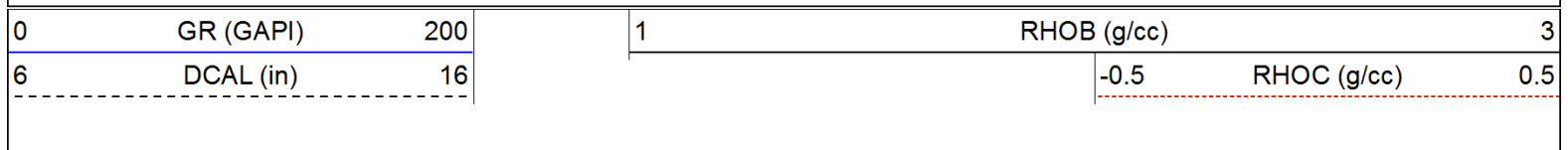
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 Presentation Format: cdnl
 Dataset Creation: Thu Dec 08 04:45:10 2011 by Calc SOC 111108
 Charted by: Depth in Feet scaled 1:240





High Resolution Pass

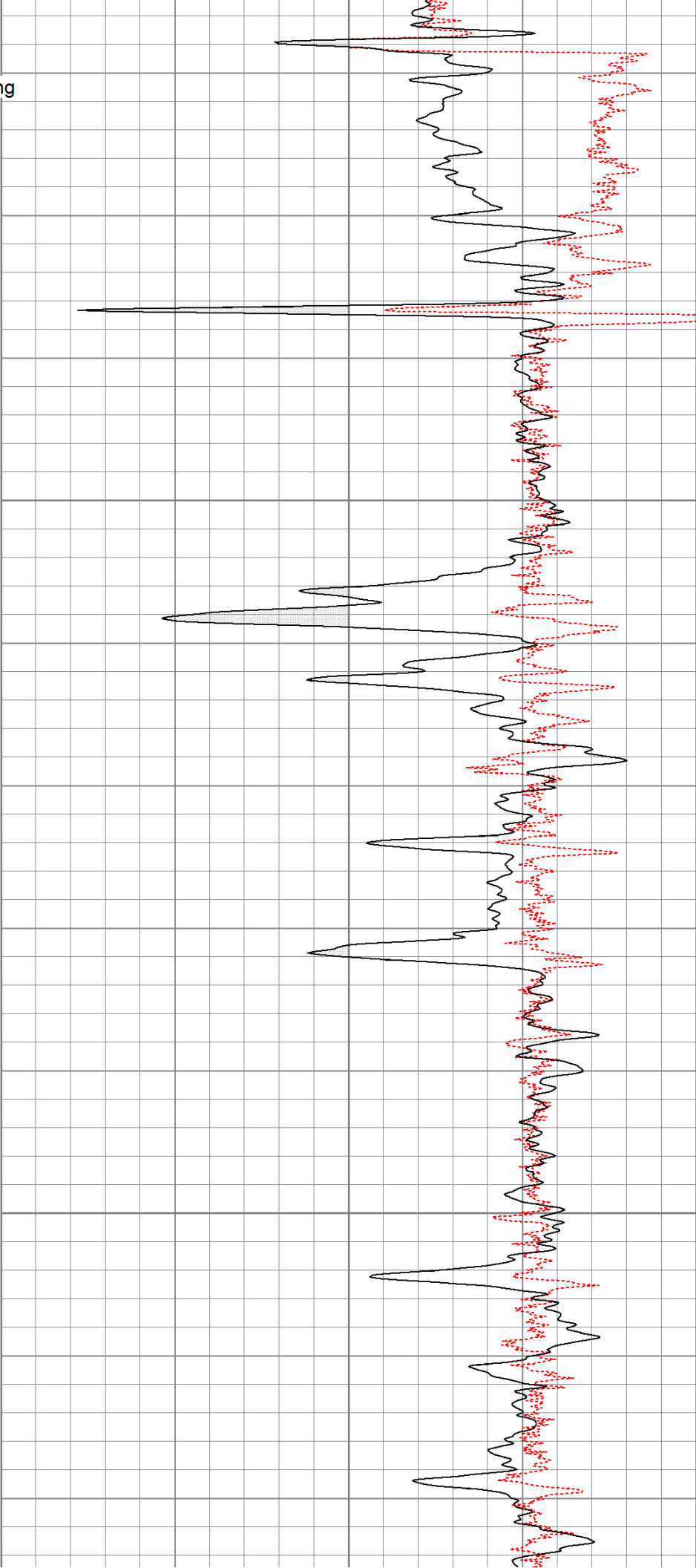
Database File: bilbofederal.db
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 Dataset Creation: Thu Dec 08 04:48:39 2011 by Calc SOC 111108
 Charted by: Depth in Feet scaled 1:120

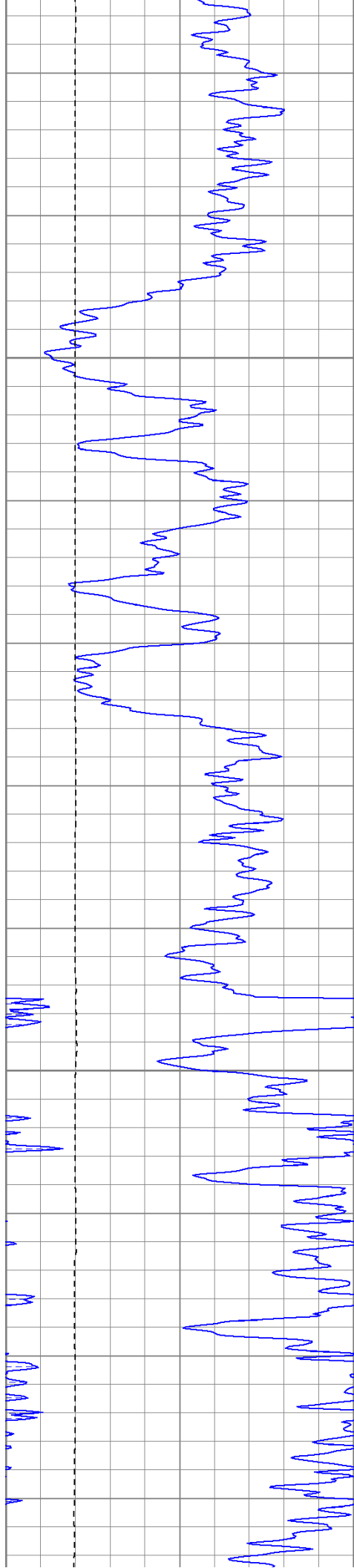


Surface Casing

950

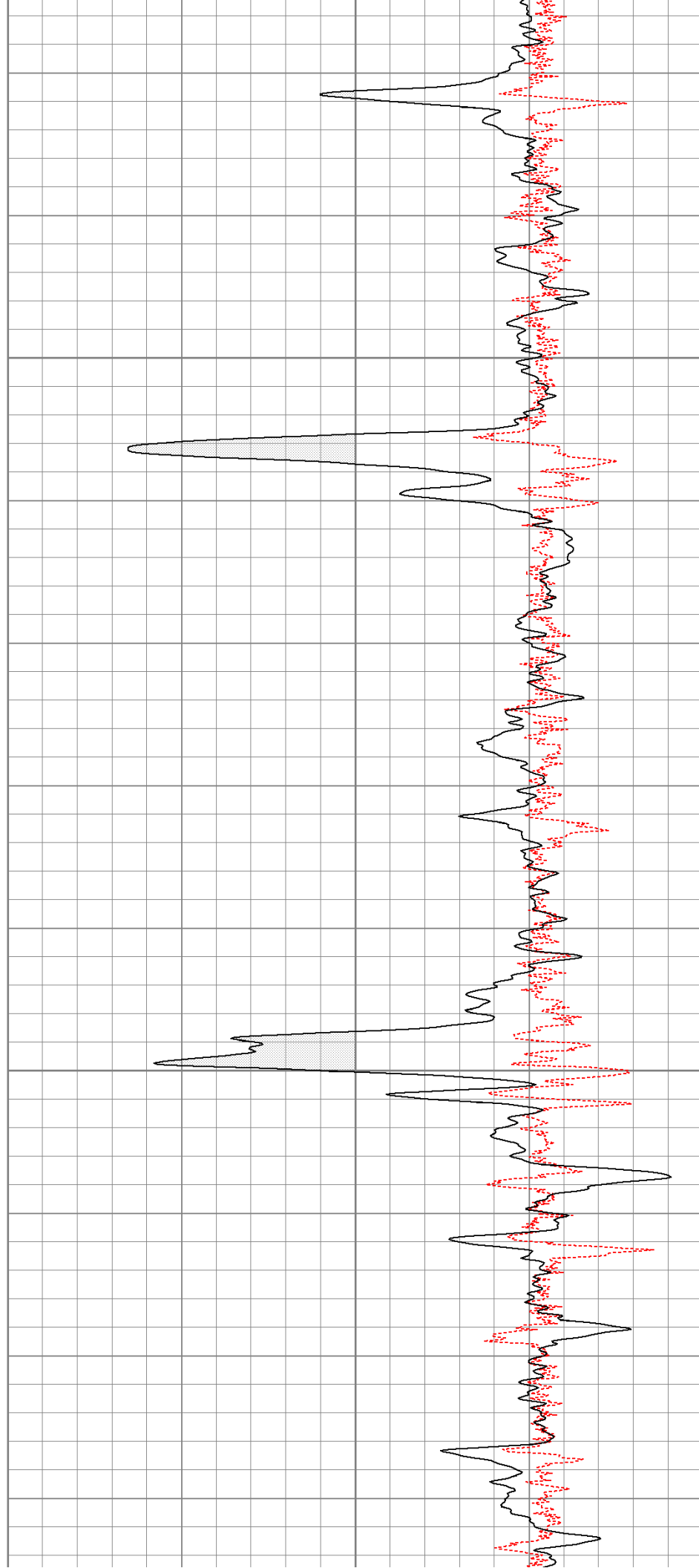
1000

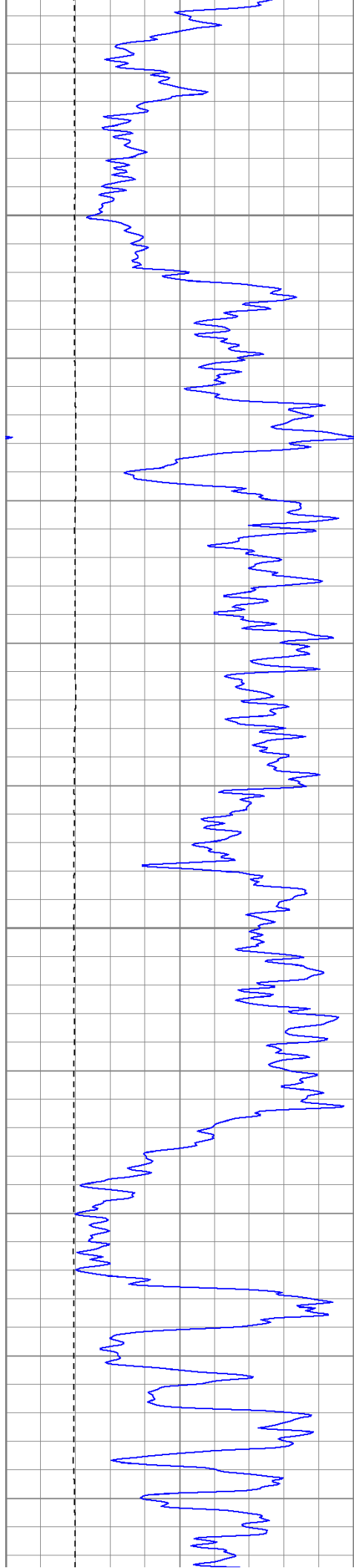




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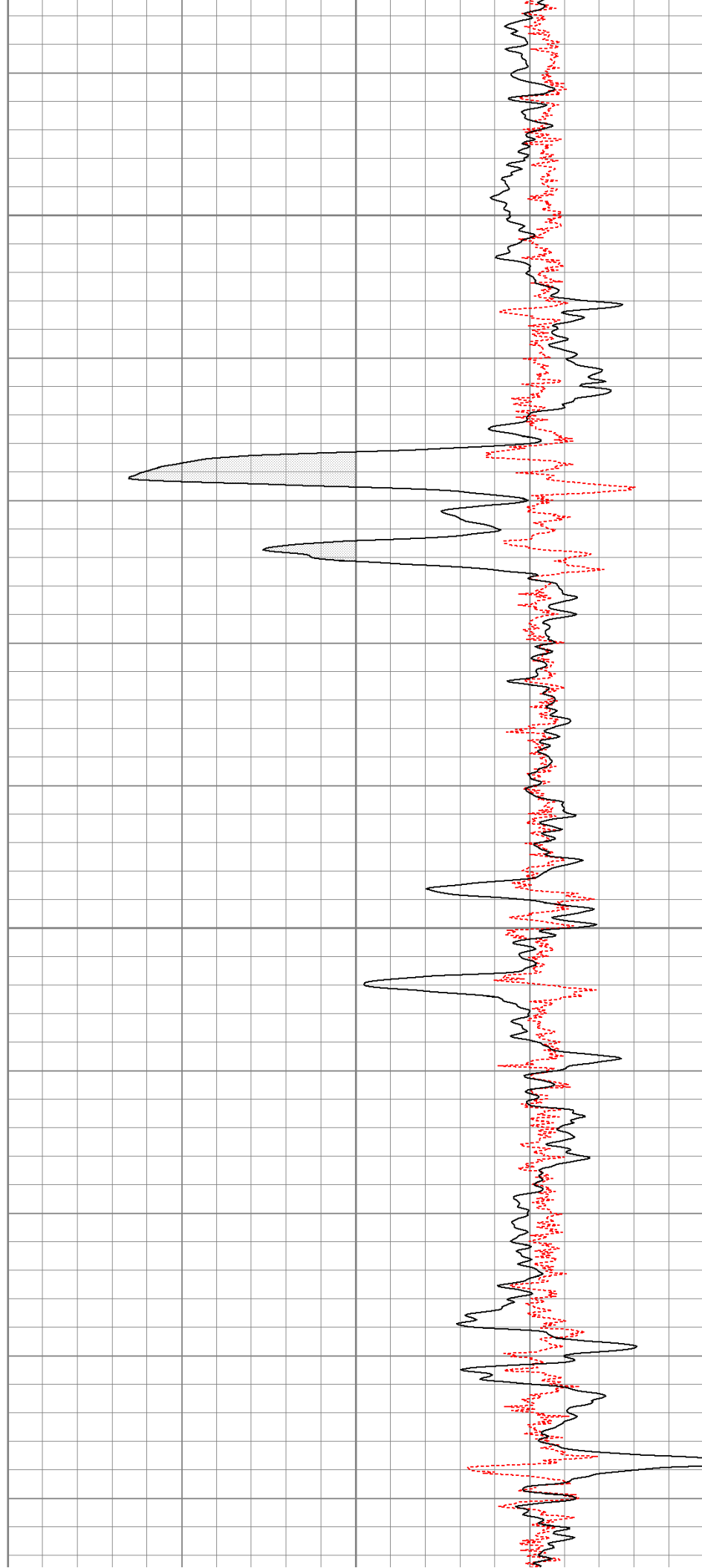
1100

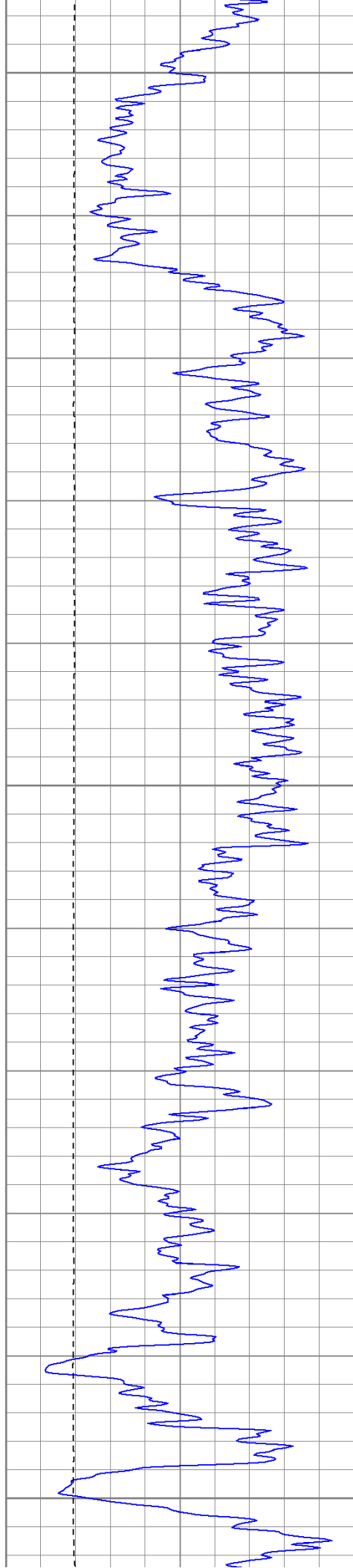




1150

1200

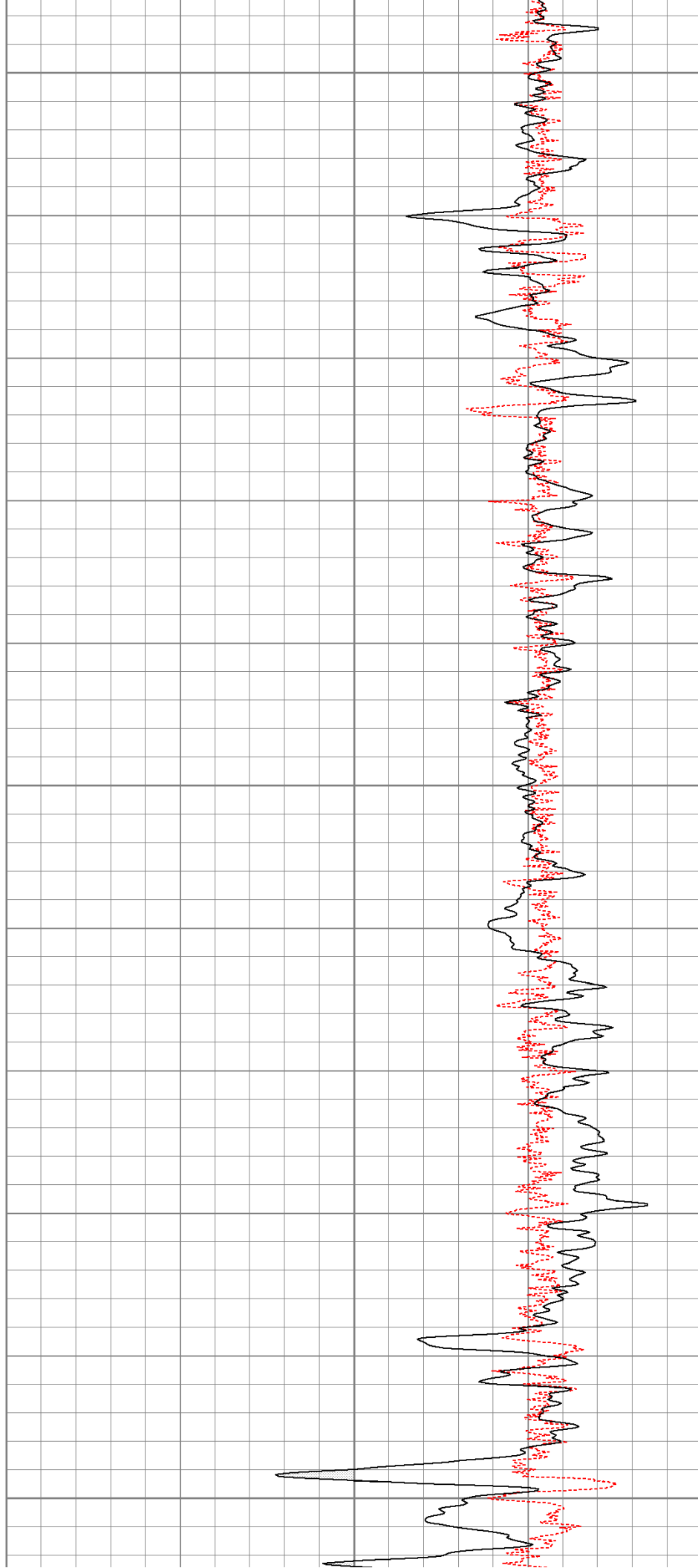


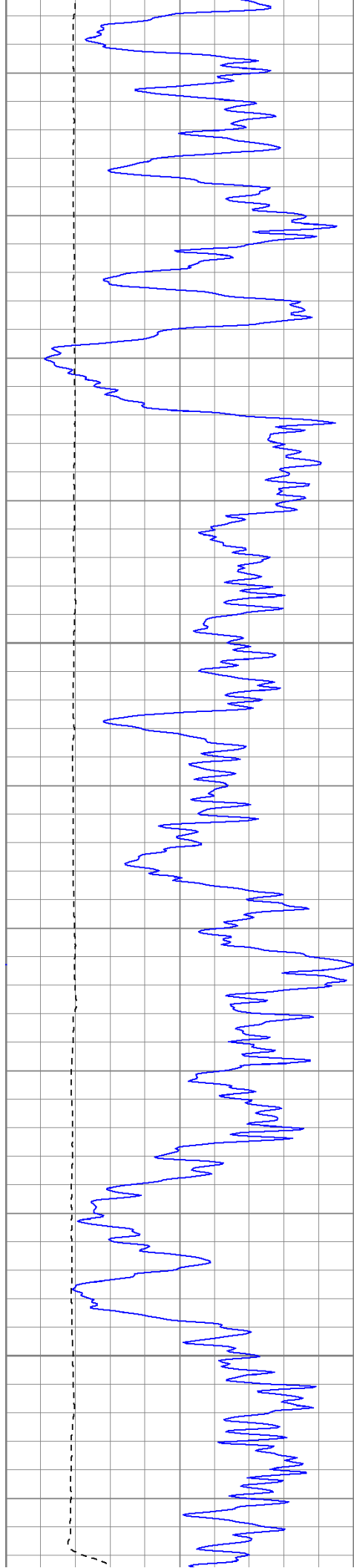


1250

1300

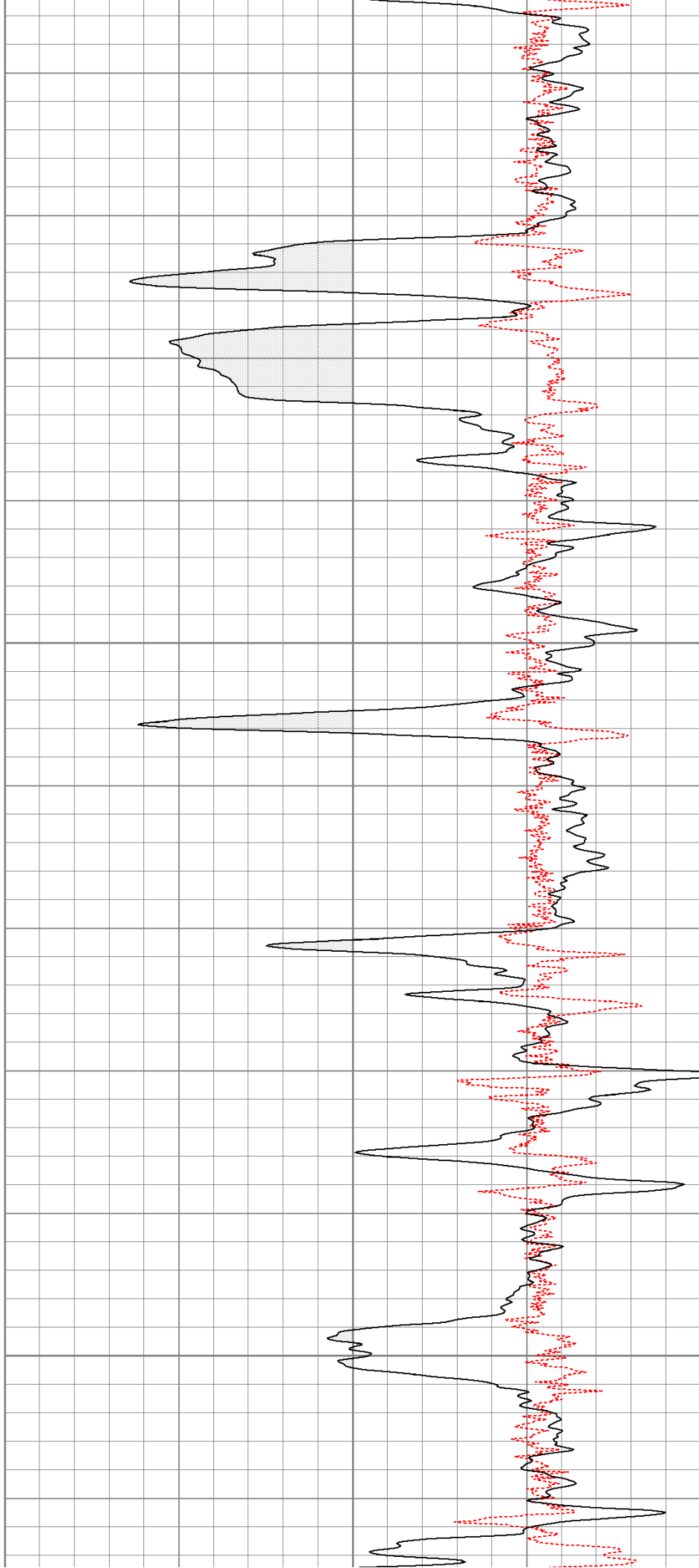
1350

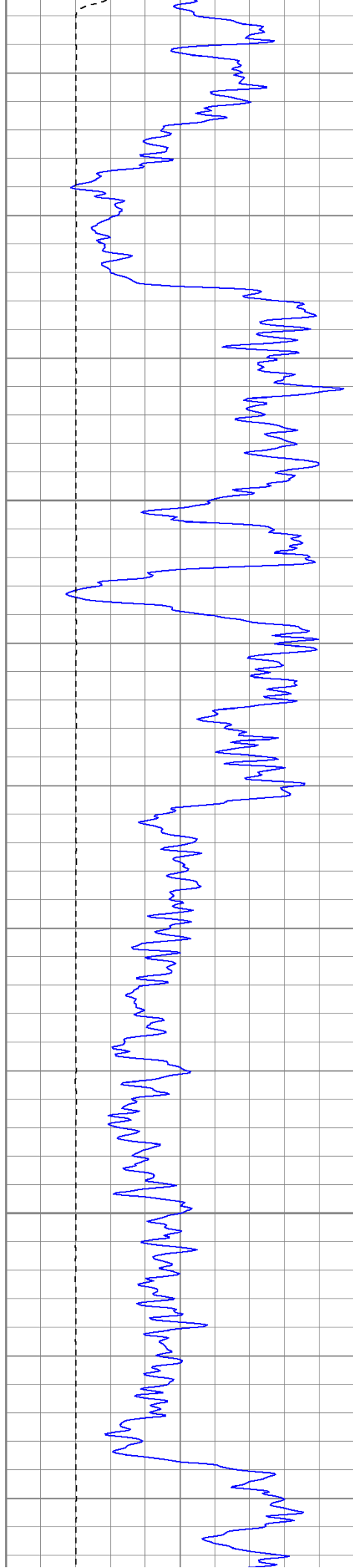




1400

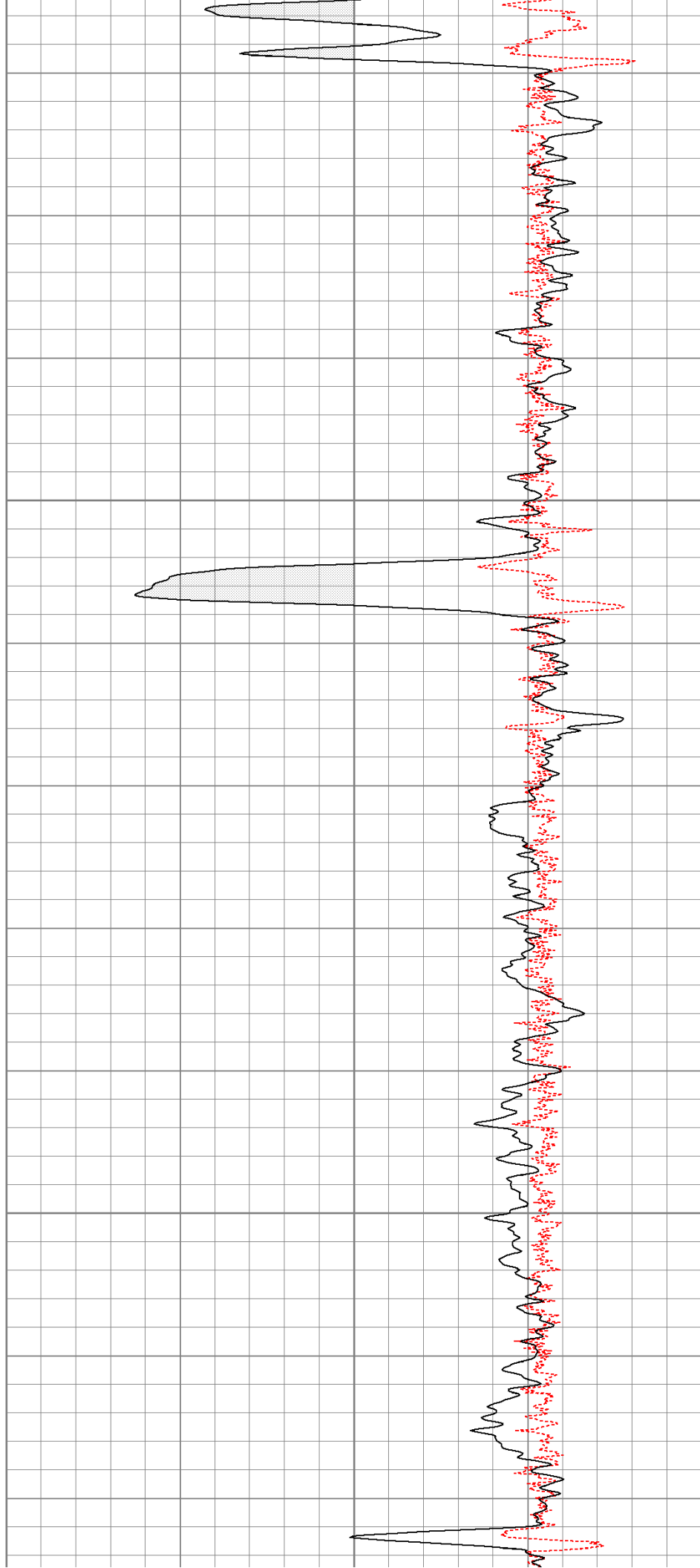
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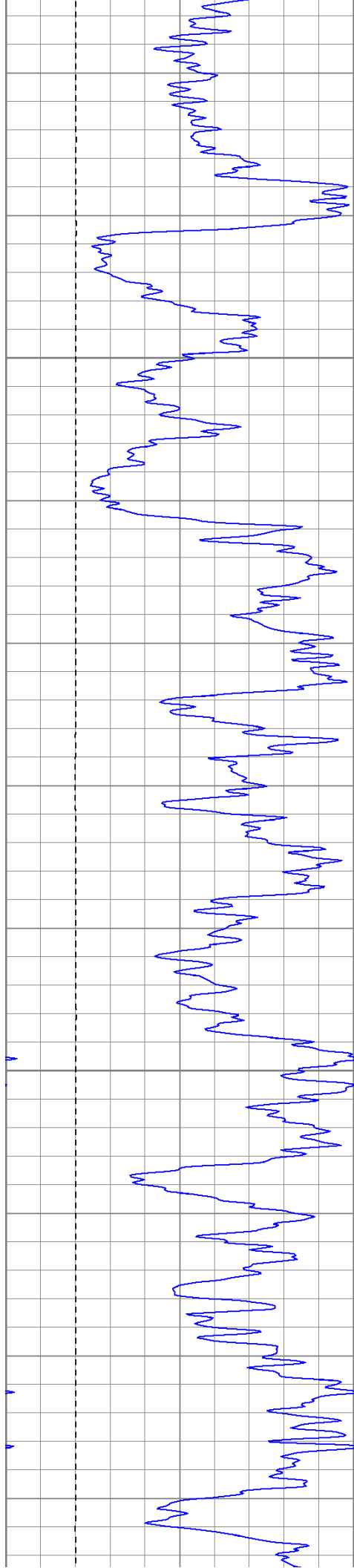




1500

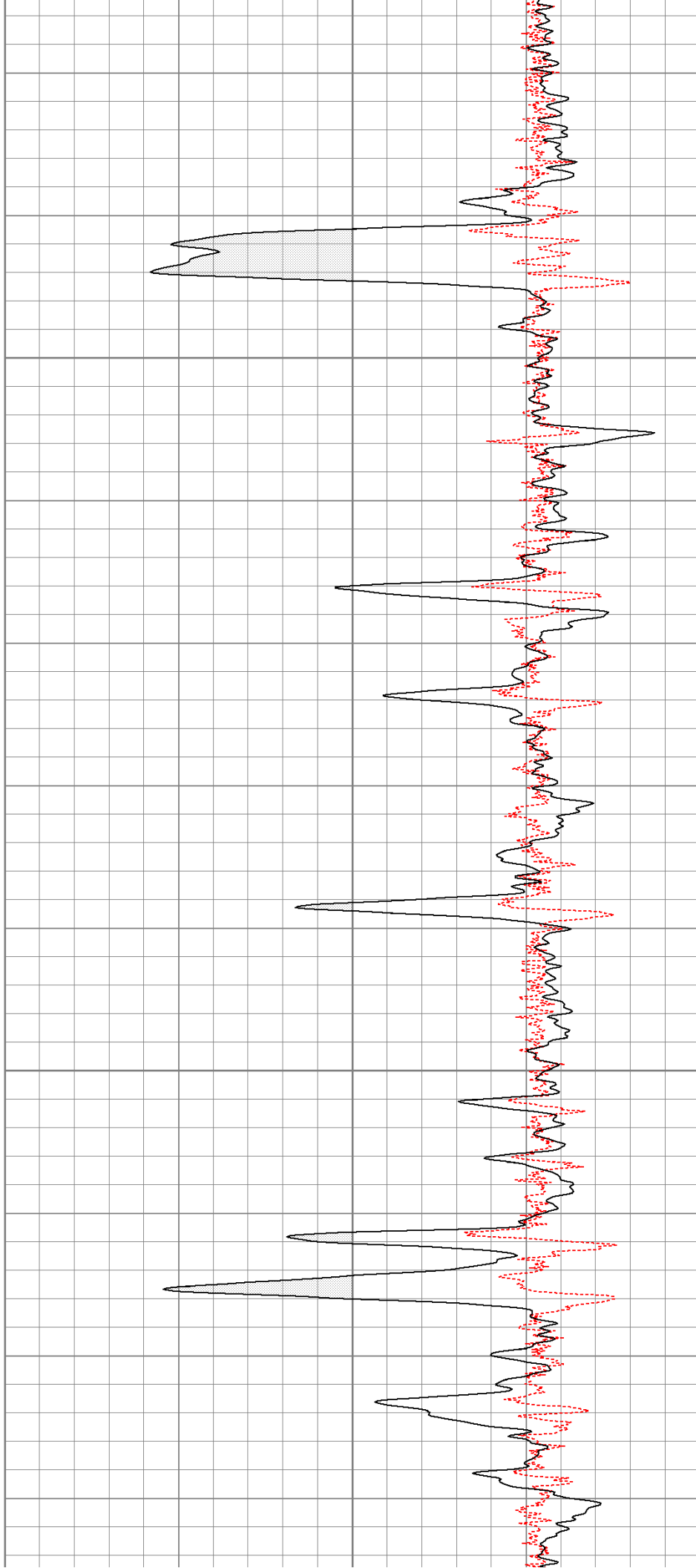
1550

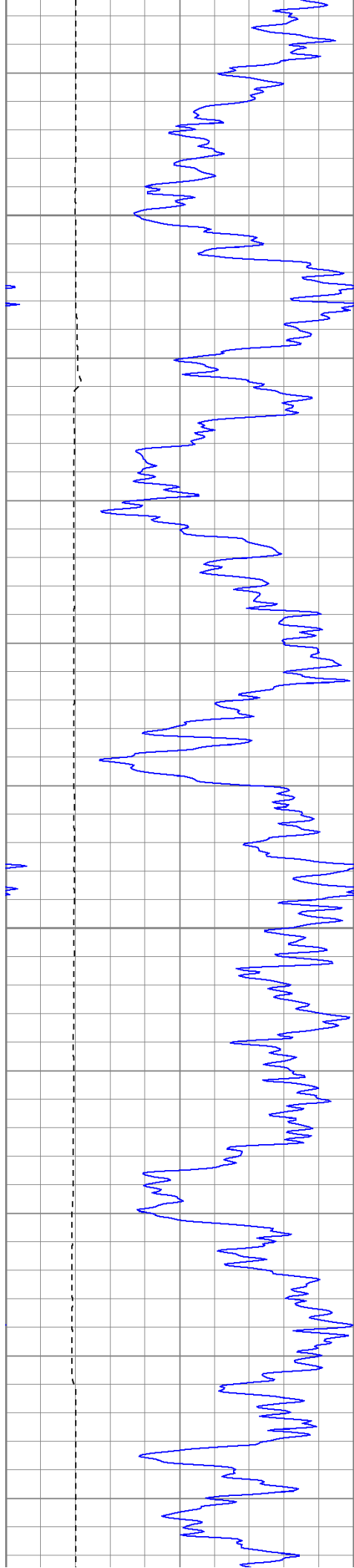




1600

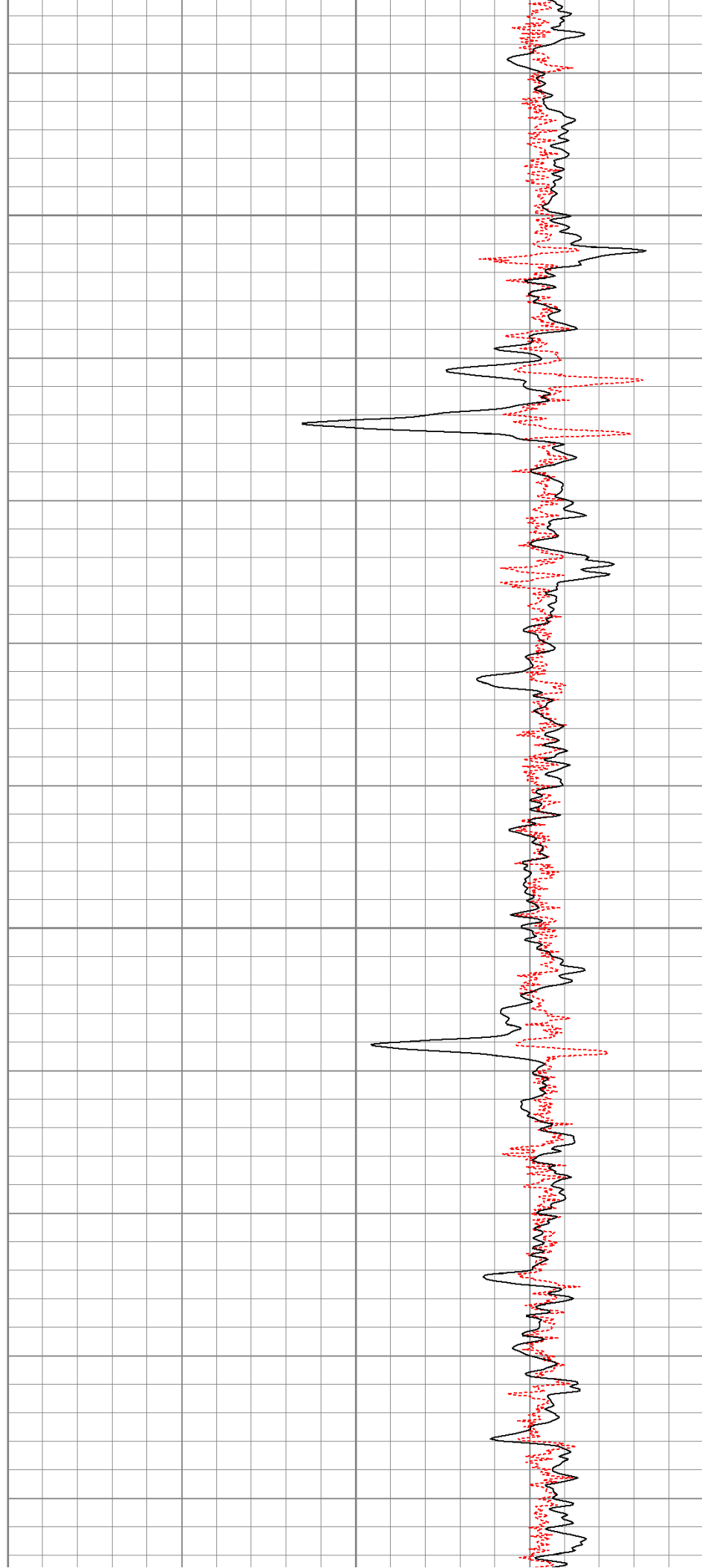
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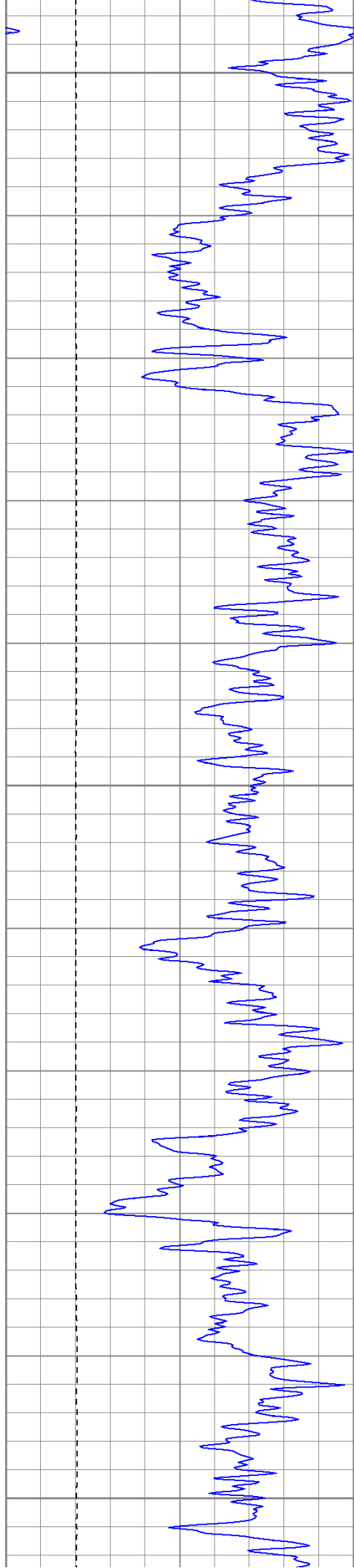




1700

1750

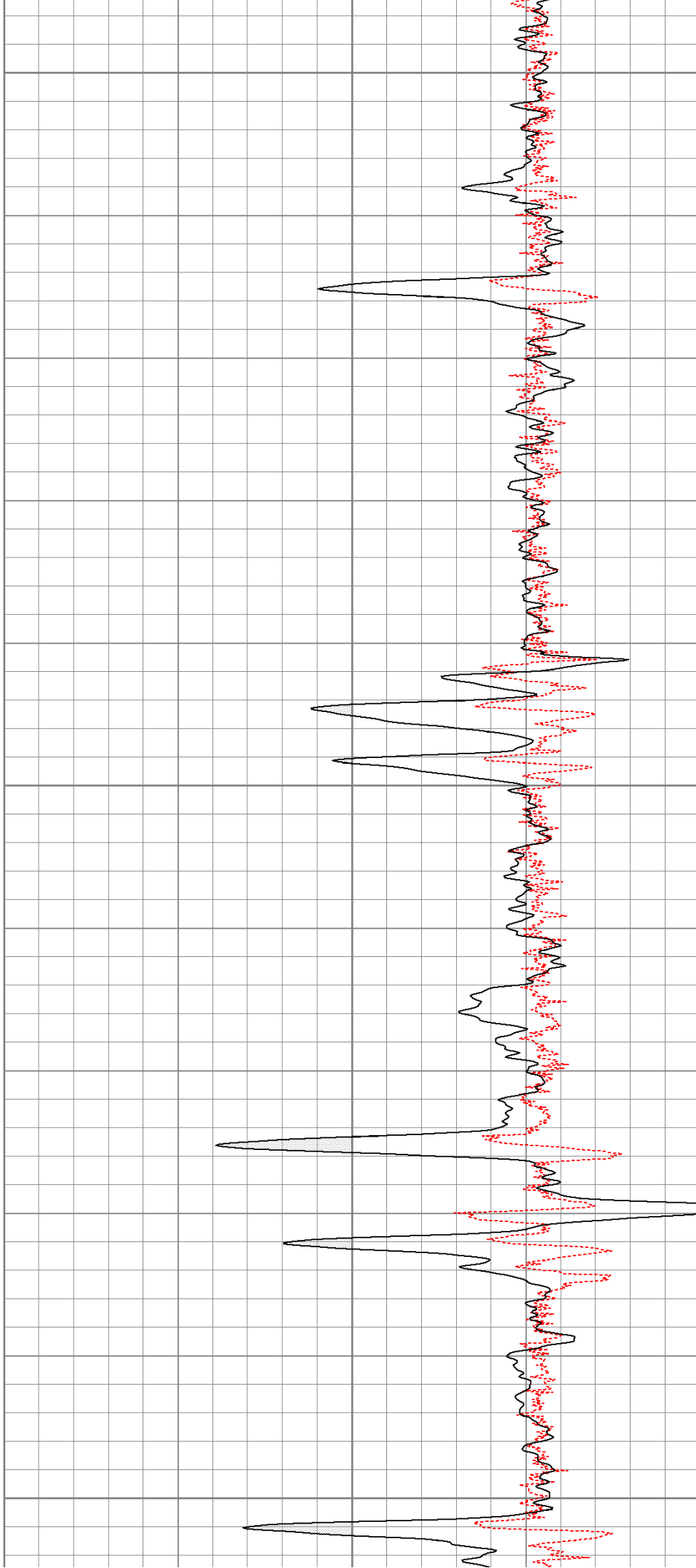


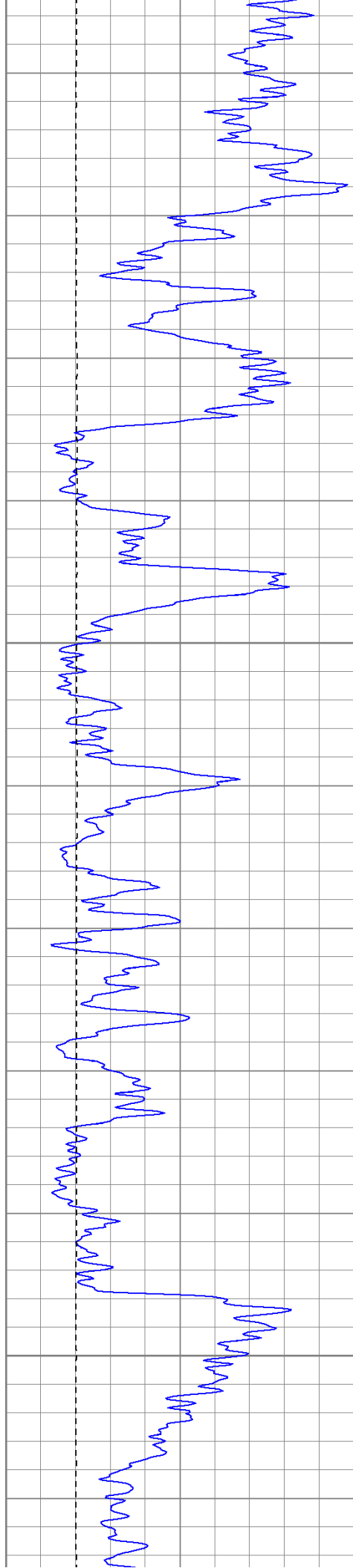


1800

1850

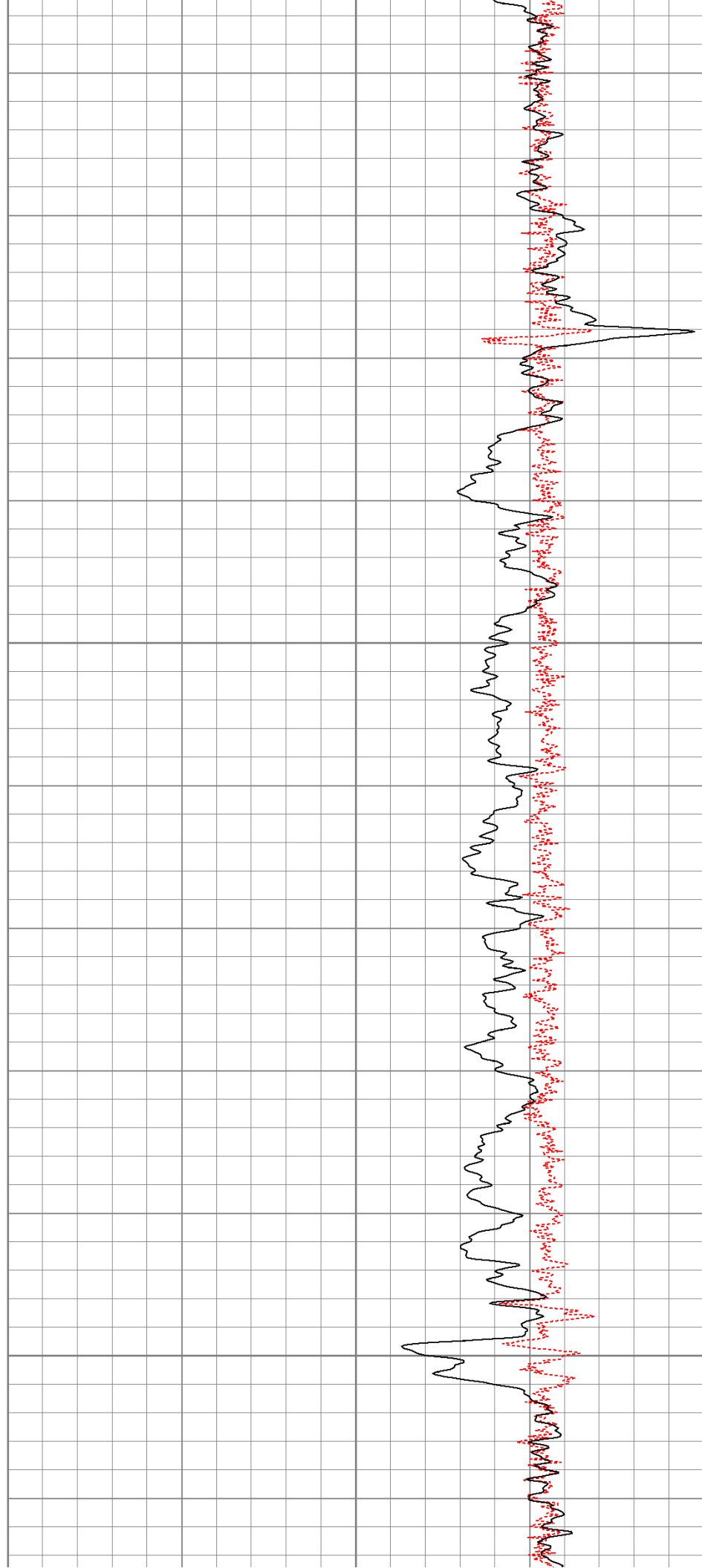
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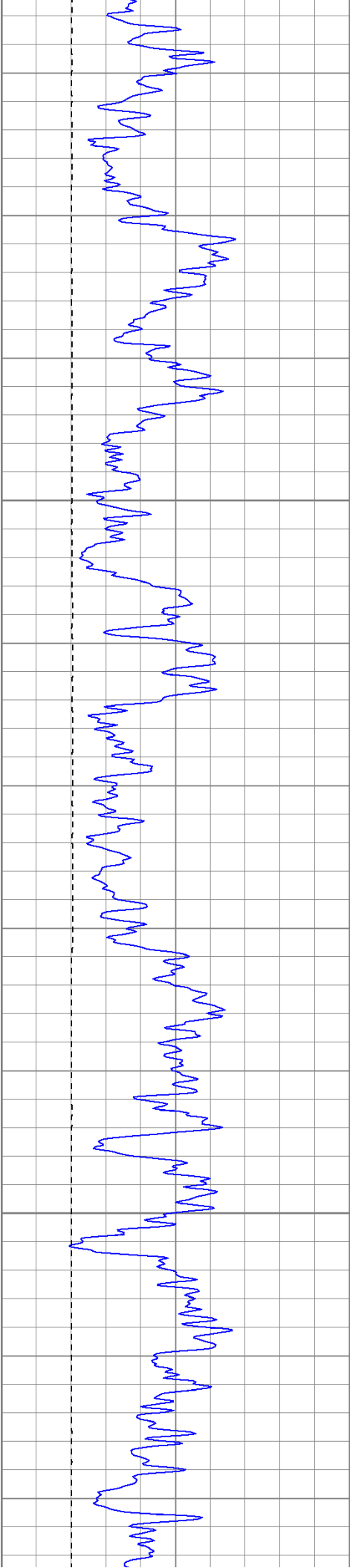




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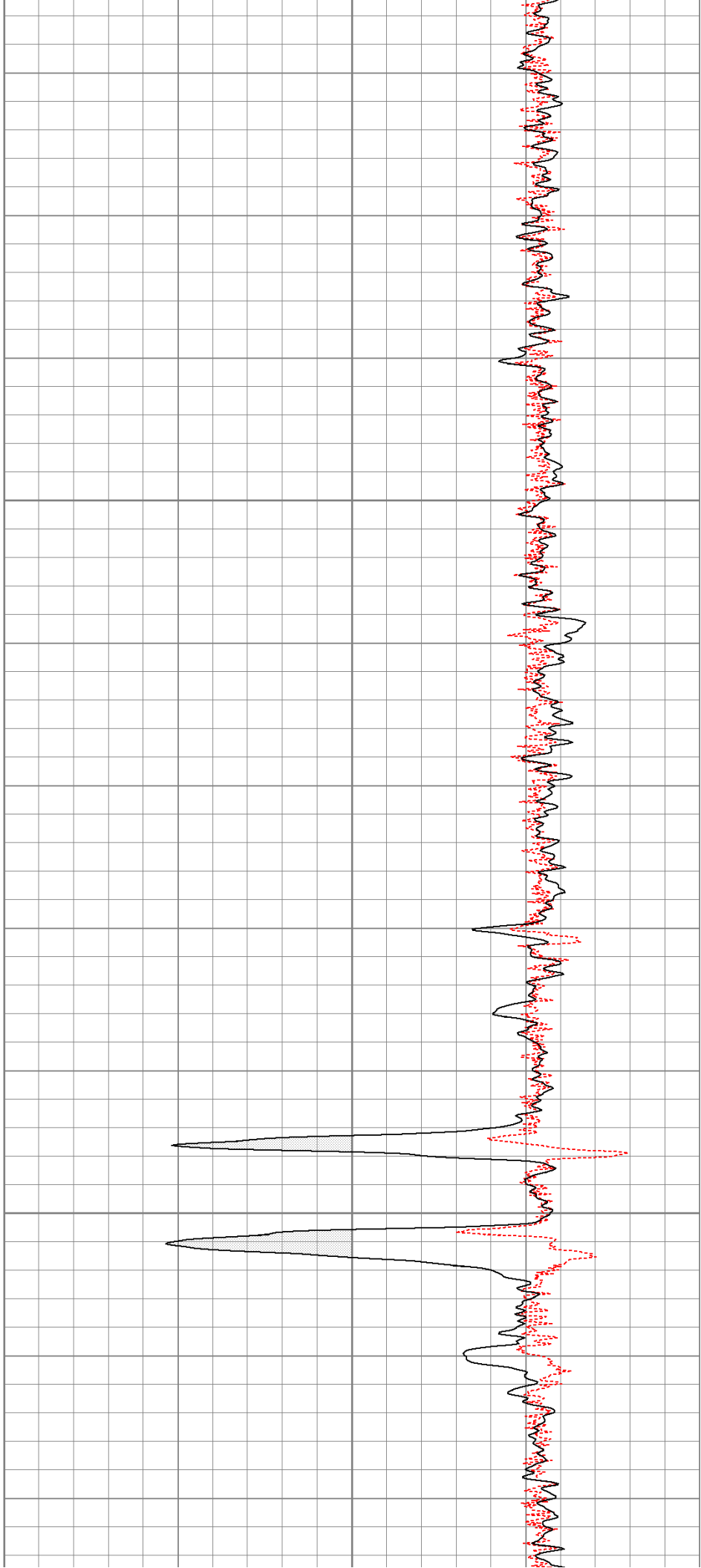
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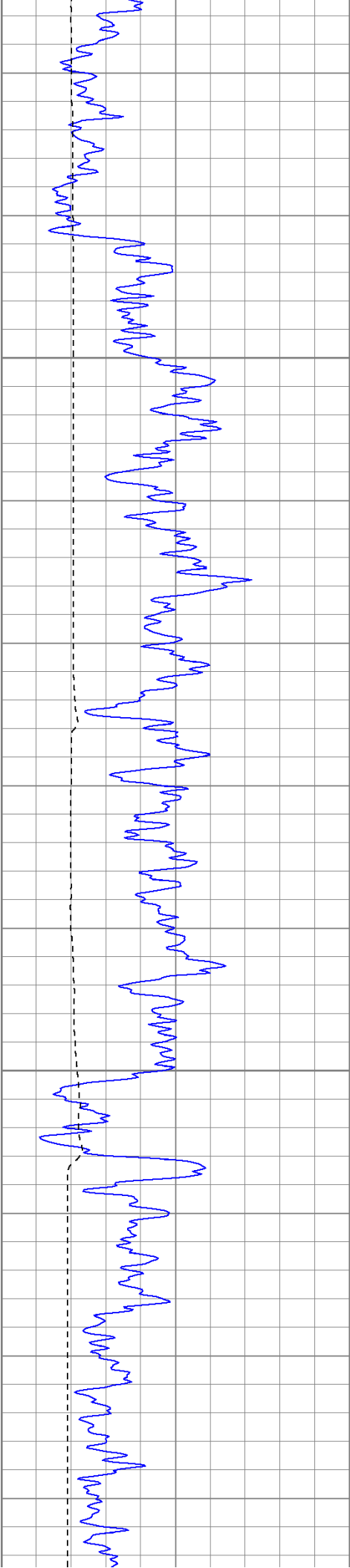




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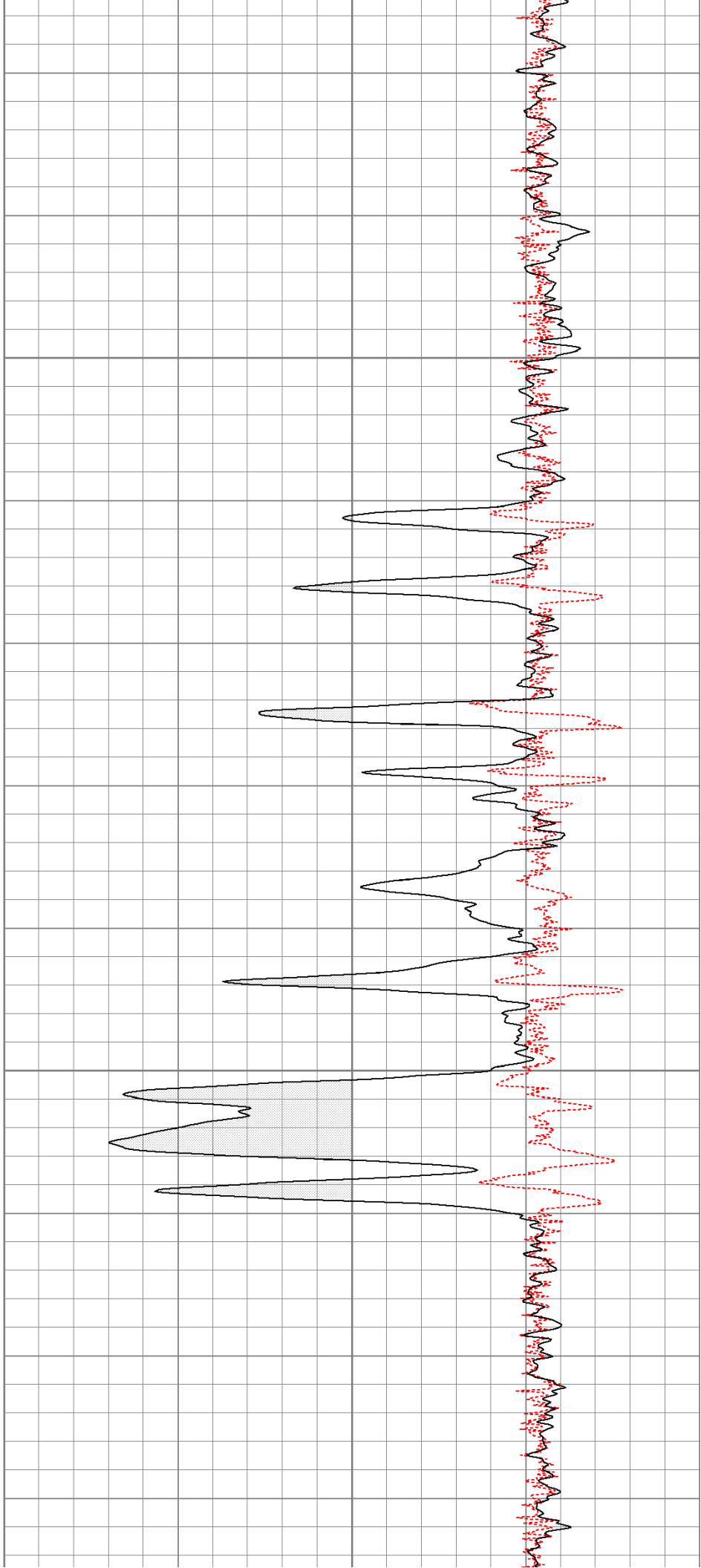
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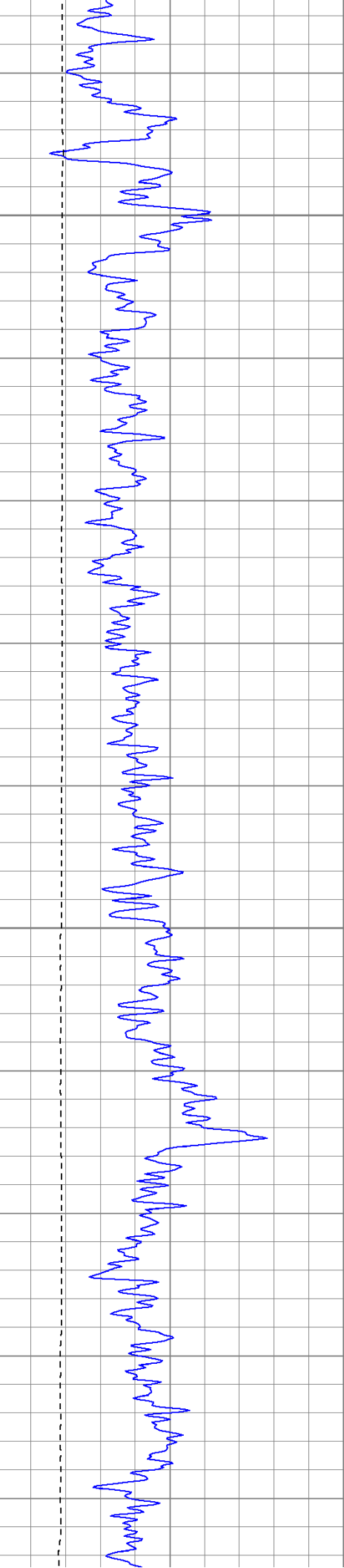




2150

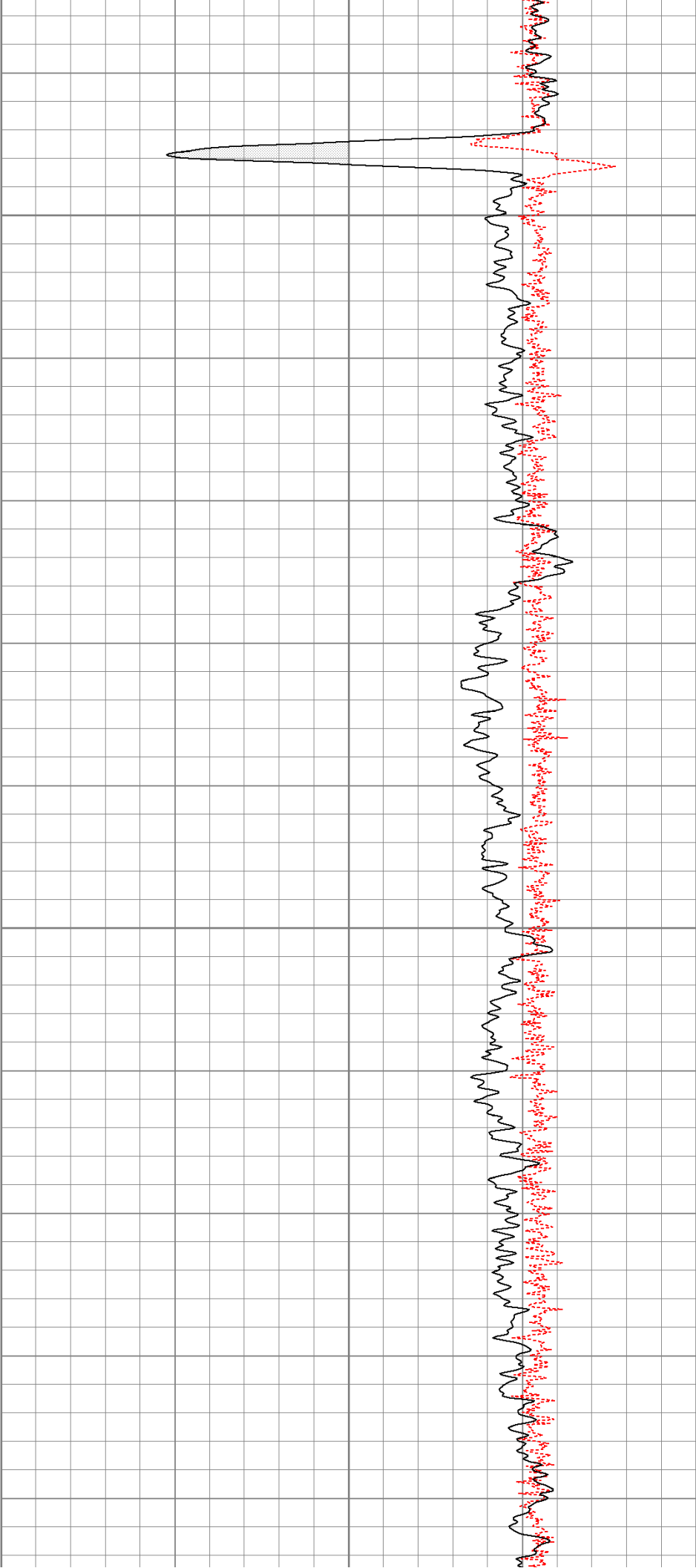
2200

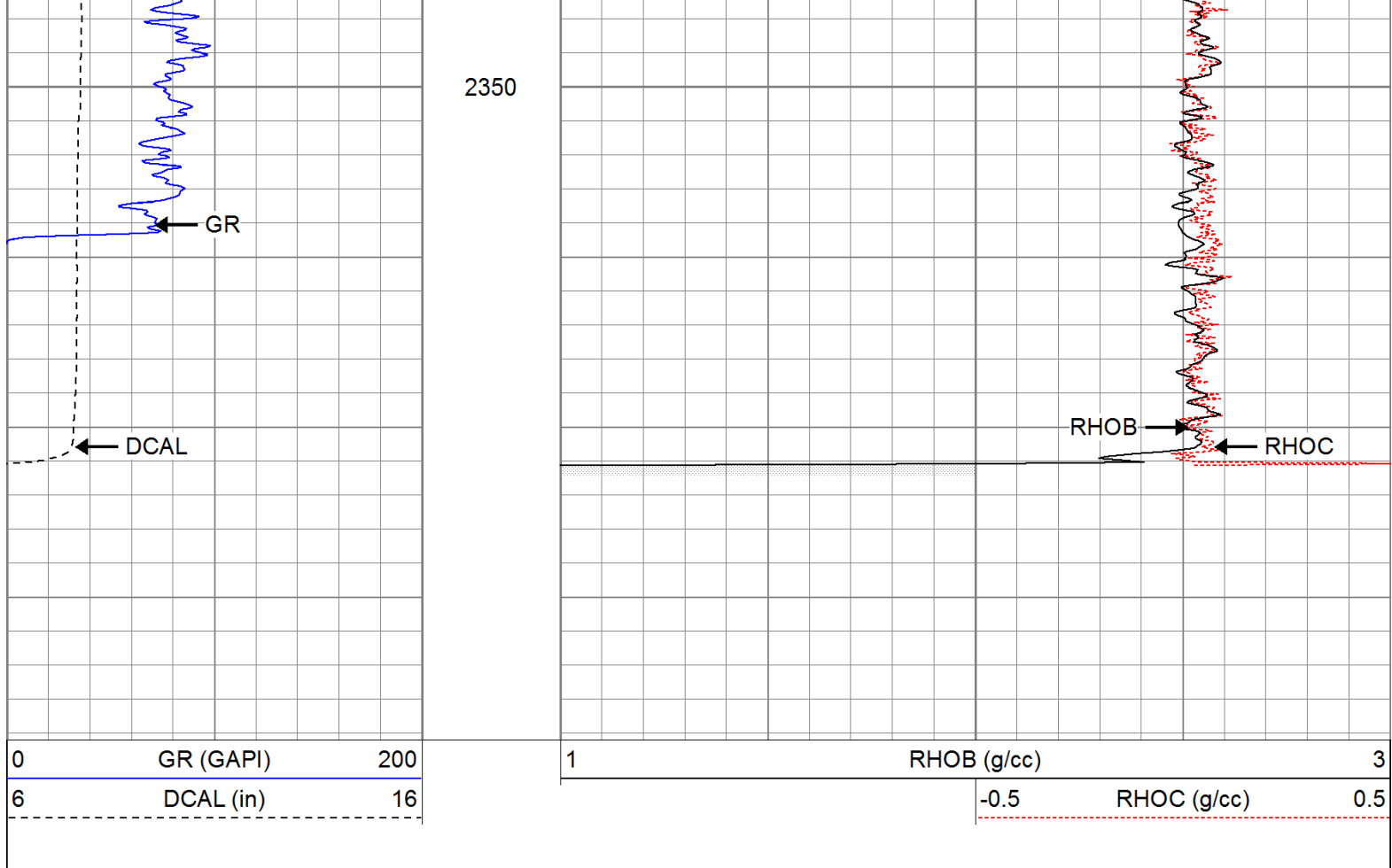




2250

2300





Calibration Report

Database File: bilbofederal.db
 Dataset Pathname: pass1
 Dataset Creation: Thu Dec 08 03:20:38 2011 by Log SOC 111108

Induction Tool Calibration Report

Serial Number: 701
 Tool Model: Probe
 Downhole Cal Performed: Wed Jun 08 22:14:25 2011
 Surface Cal Performed: Wed Jun 08 22:14:40 2011
 After Survey Verification Performed:

Surface Calibration:	Air	Loop	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	0.006	0.644	V
Internal Reference:	Zero	Cal	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	0.007	0.643	V

Downhole Calibration:	Internal Zero	Internal Cal	
Conductivity Reference:	0.703	499.163	mmho
Conductivity Reading:	0.000	0.000	V
Short Normal Reference:	0.000	20.000	Ohm-m
Short Normal Reading:	0.005	0.214	V

Results:	Gain	Offset	
Loop Conductivity:	783.886	-4.674	
Downhole Correction:	1.000	0.000	
Short Normal Resistivity:	95.281	-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

Compensated Density Calibration Report

Serial-Model:901-2.75POH

Source / Verifier:/

Master Calibration Performed:Mon Oct 10 09:20:39 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	8.00	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	

After Survey Verification					
	Target		Measured		
		g/cc		g/cc	
		g/cc		g/cc	
		g/cc		g/cc	

Neutron Calibration Report

Serial Number:803

Tool Model:2.75POH

Performed:Mon Oct 10 09:27:42 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:Mon Oct 10 09:53:04 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)
			None	0.75	1.50	5.00

Tool Joint	Weight	Length	Tool Joint	Weight	Length	Tool Joint
GR	29.58		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
LSD	16.21		CDL-2.75POH (901) Probe	8.43	2.75	106.00
DCAL	15.94					
SSD	15.69					
DIC	6.24		IEL-Probe (701)	13.46	2.75	93.00
SP	2.25					
SN	1.71					
Dataset: bilbofederal.db: field/well/run1/pass1 Total Length: 31.11 ft Total Weight: 305.00 lb O.D. 2.75 in						