



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 33-04
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09507 00

1319' FNL & 465' FWL

SEC 33 TWP 33S RGE 67W

Permanent Datum Ground Level Elevation 7491'
Log Measured From Ground Level
Drilling Measured From Ground Level

Other Services
dill
Elevation
K.B. -----
D.F. -----
G.L. 7491'

Date	7-3-08		
Run Number	One		
Depth Driller	2150'		
Depth Logger	2151'		
Bottom Logged Interval	2128'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 492"		
Casing Logger	493'		
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	8:00 A.M.		
Time Logger on Bottom	11:30 A.M.		
Maximum Recorded Temperature	124 DEG F		
Equipment Number	T0701		
Location	Trinidad		
Recorded By	C. Sisneros		
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

Compensated Density Neutron Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing.
Well Directions:
Highway 12 past Weston, turn left across from electric substation on right,
go thru gate, immediate right, drive past Compressor #3, first left,
take right on GE 33-03, dead end on location.



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Main Pass

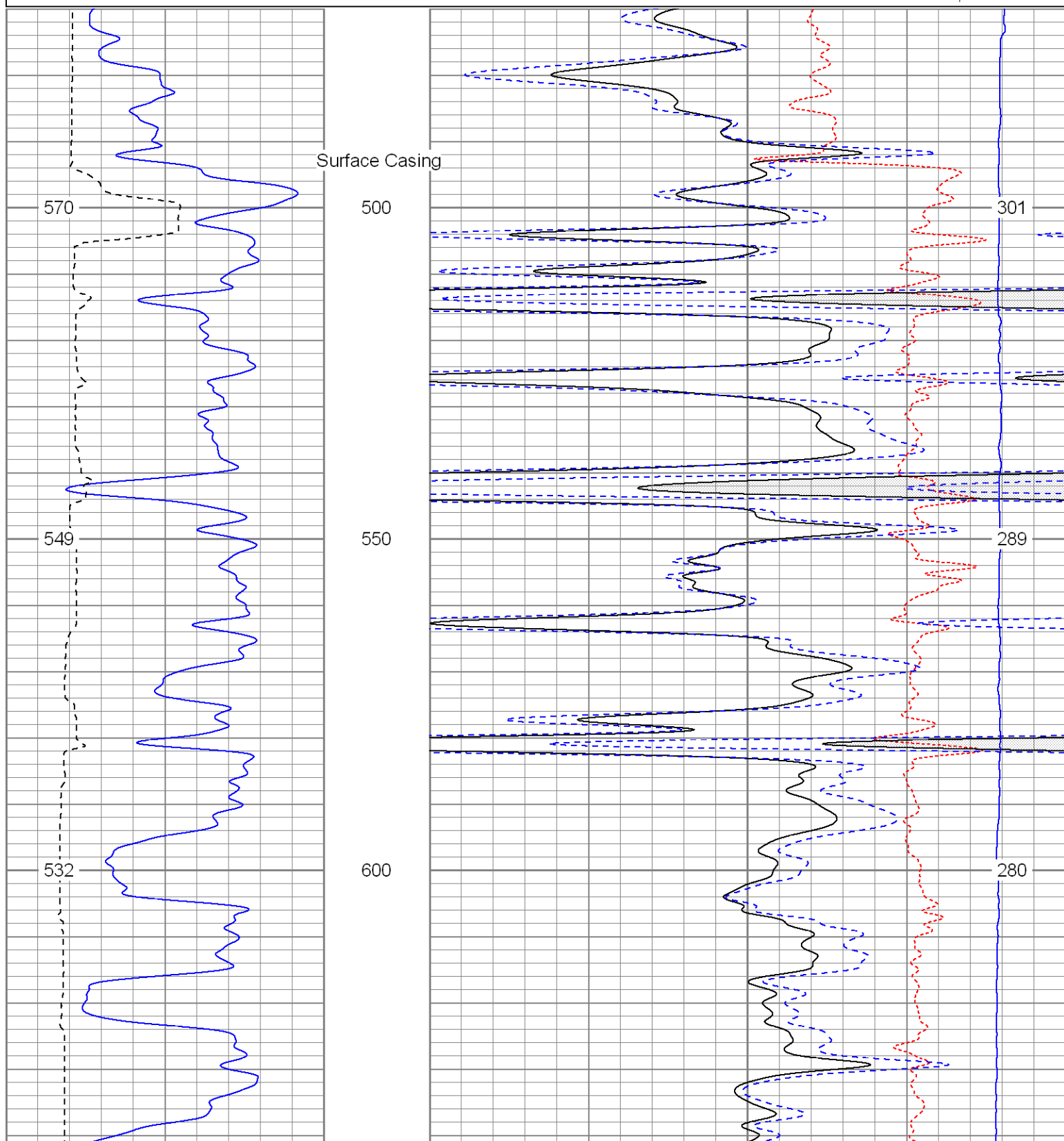
Database File: xtoge3304.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Thu Jul 03 13:00:11 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

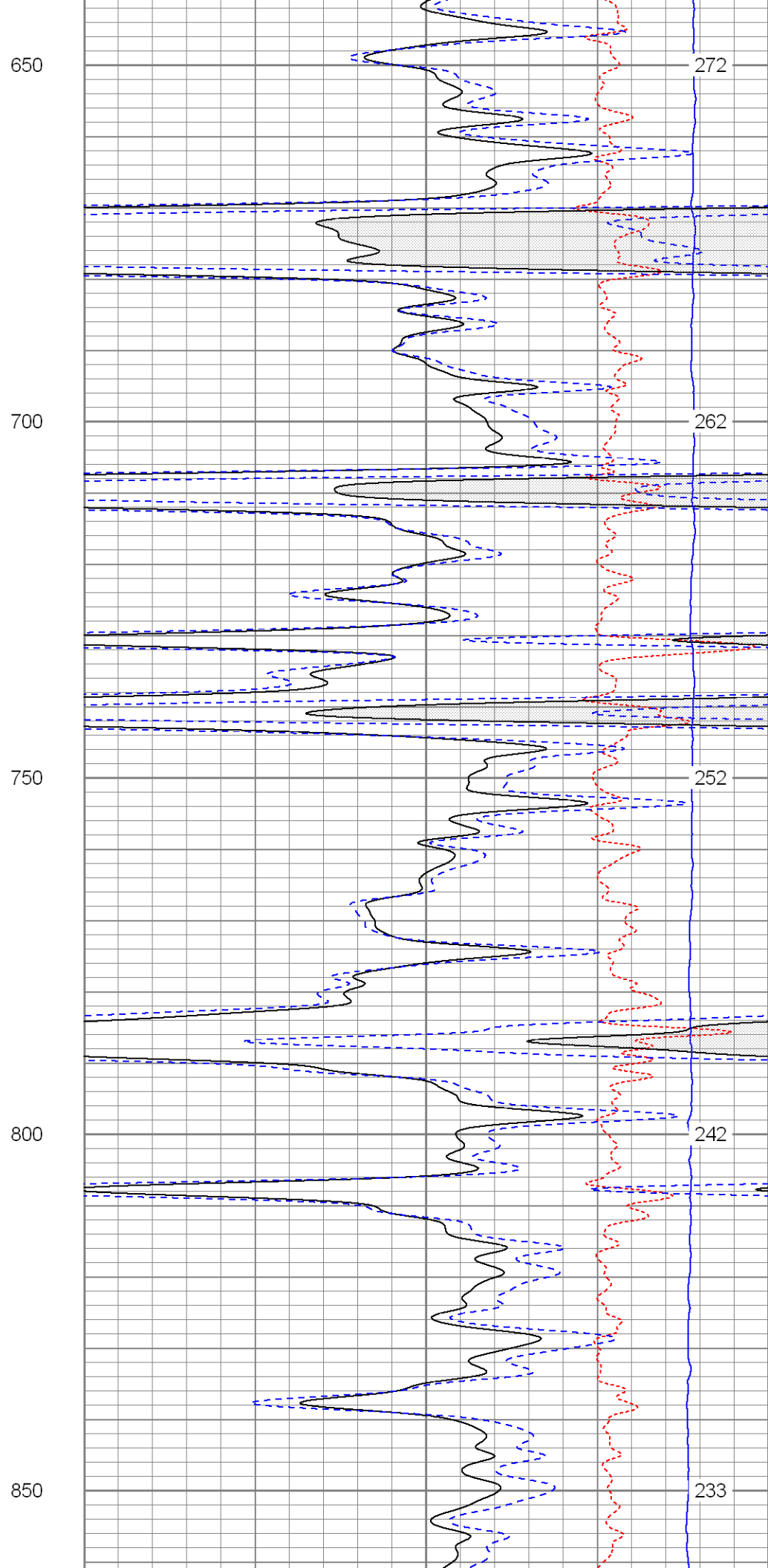
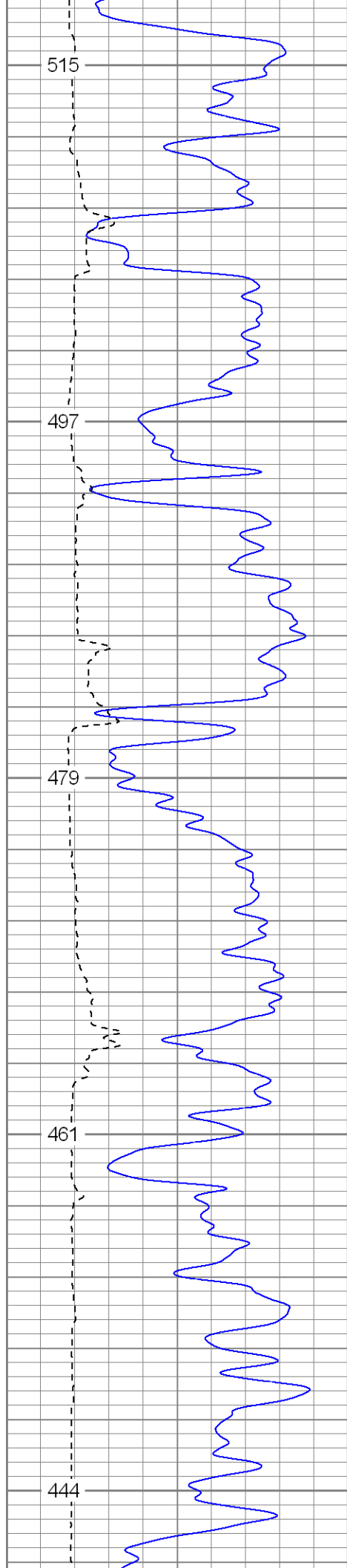
0	GR (GAPI)	200
6	DCAL (in)	16

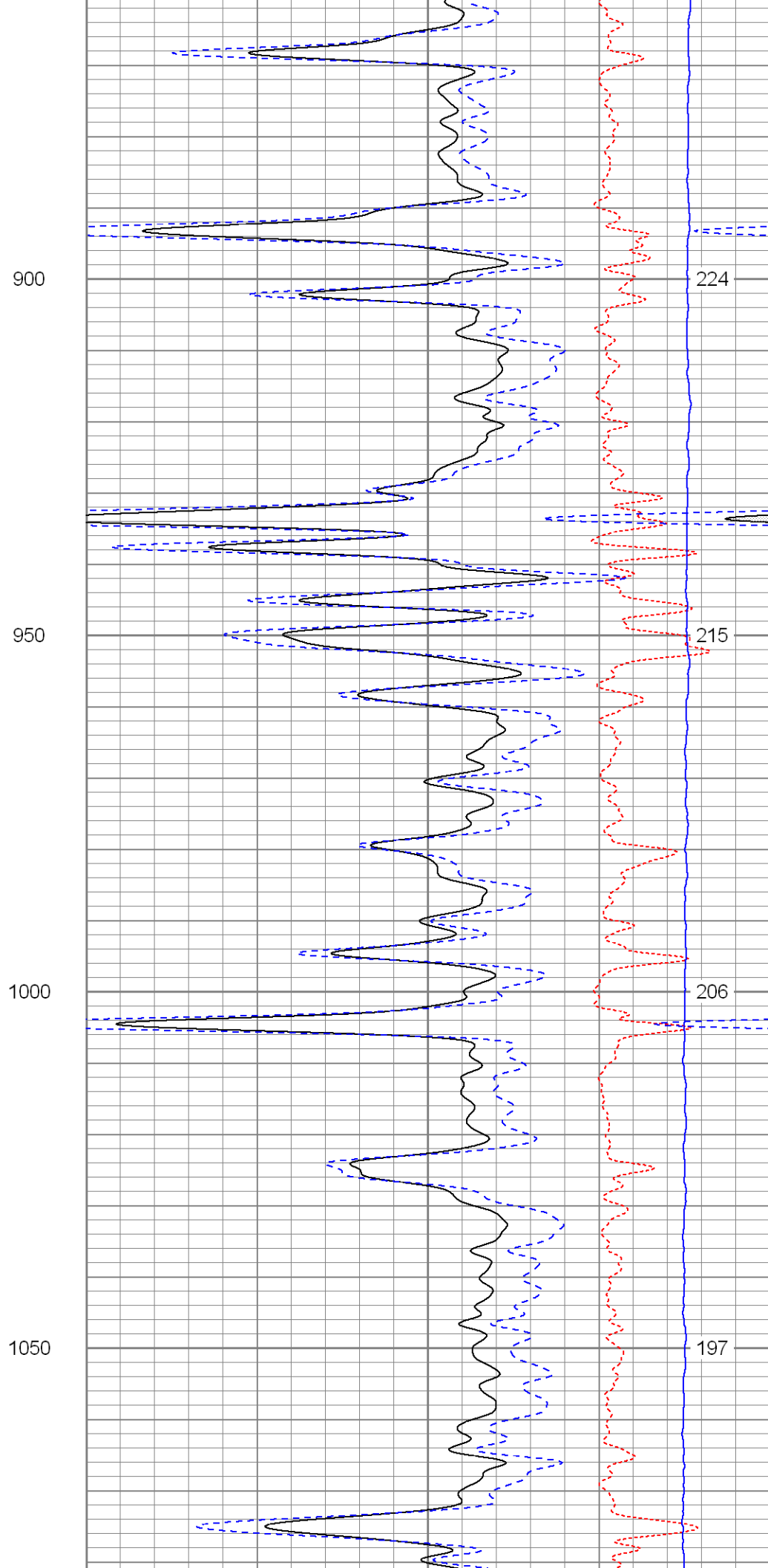
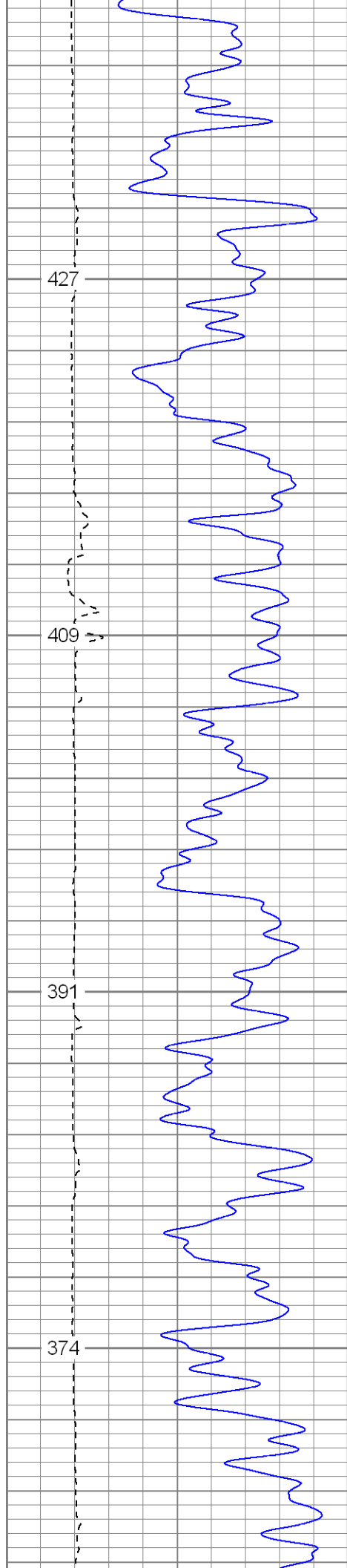
TBHV (ft3)		

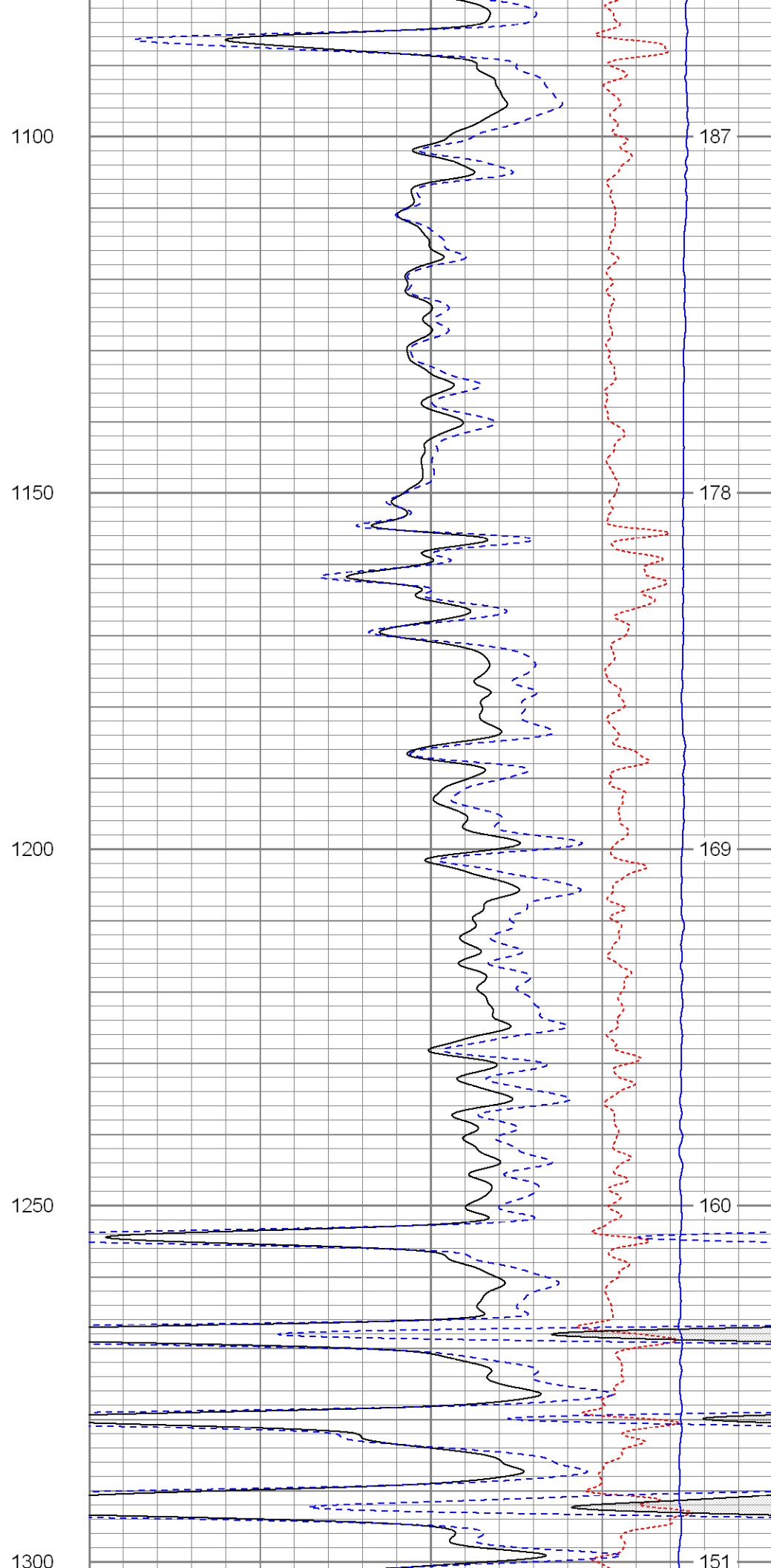
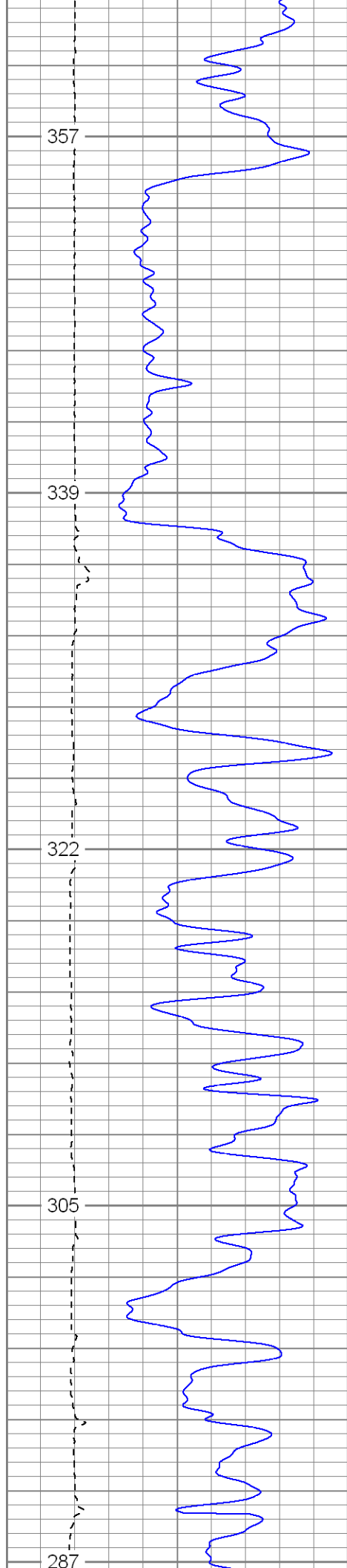
2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10

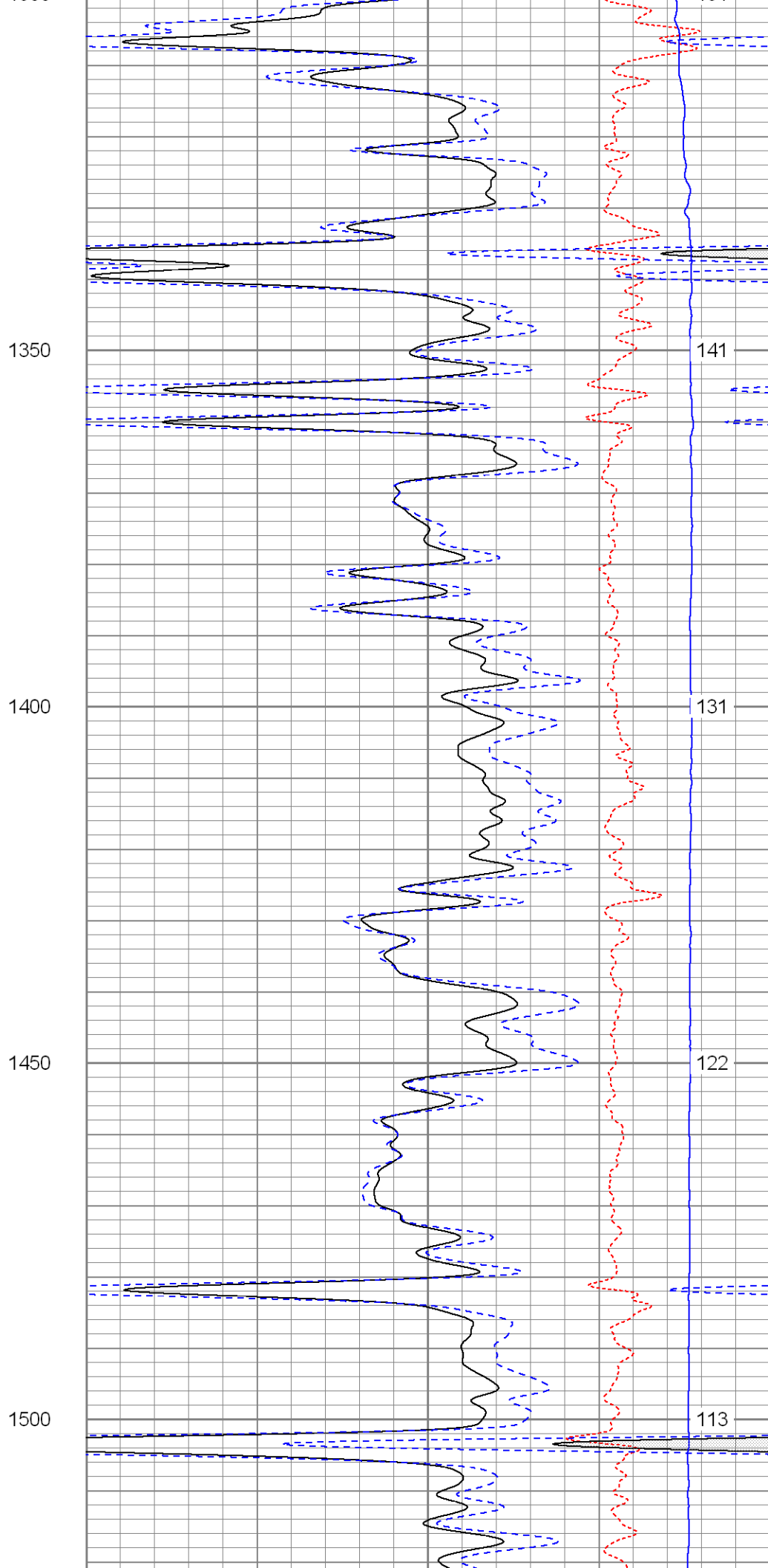
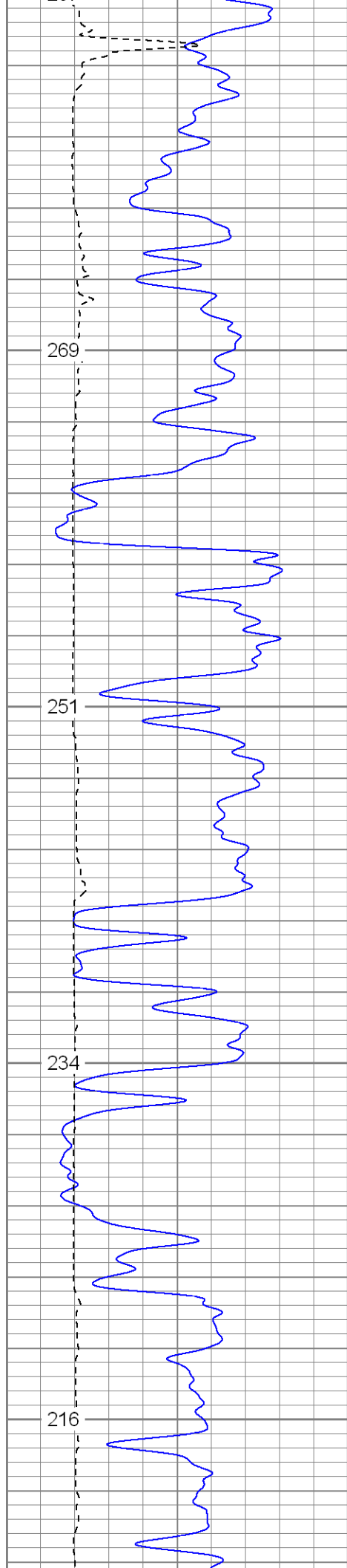
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
		ABHV (ft3)

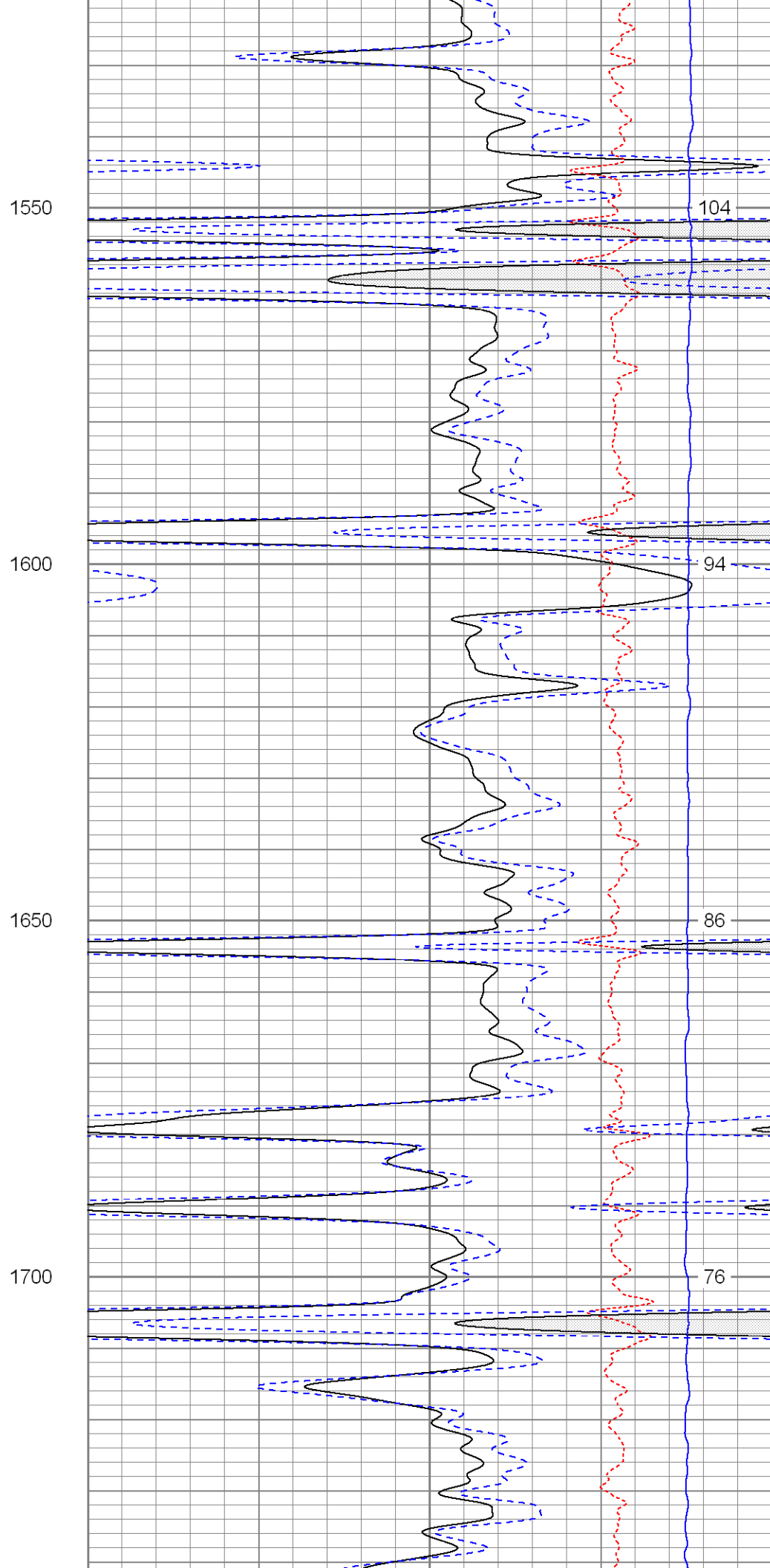
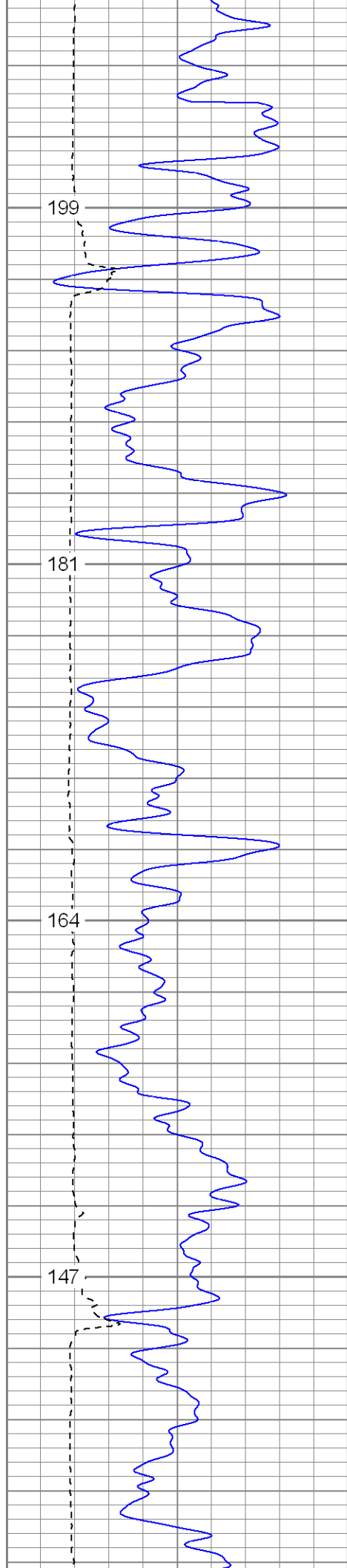


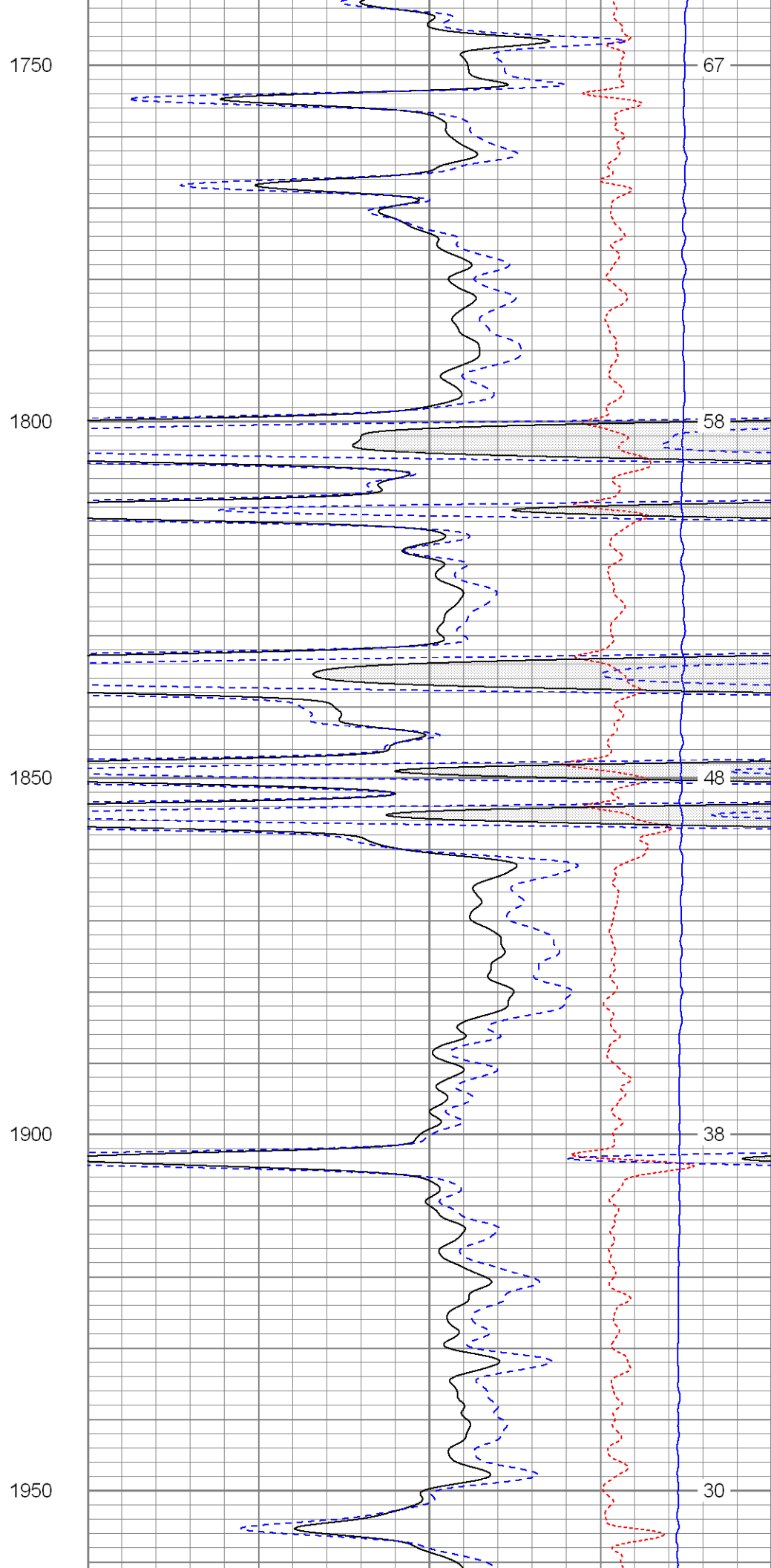
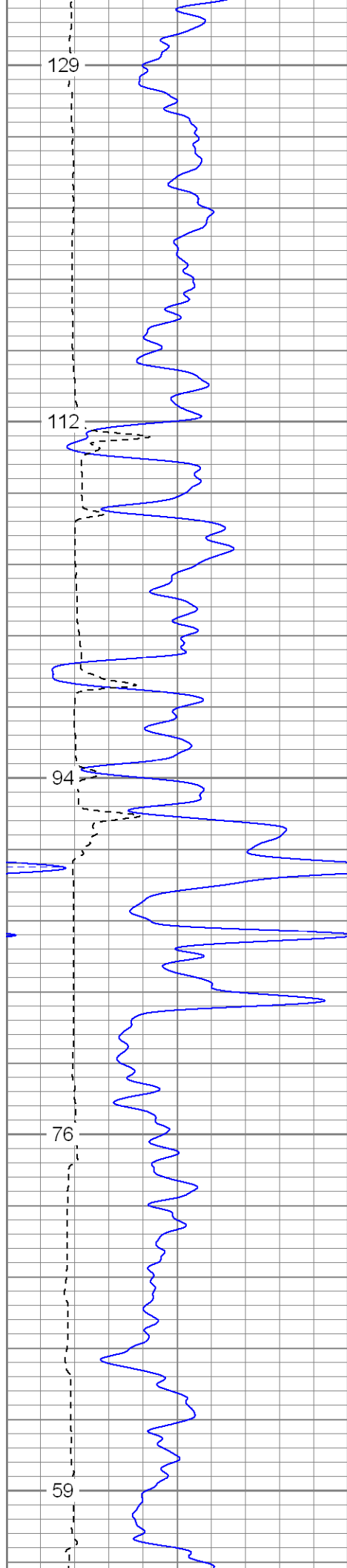


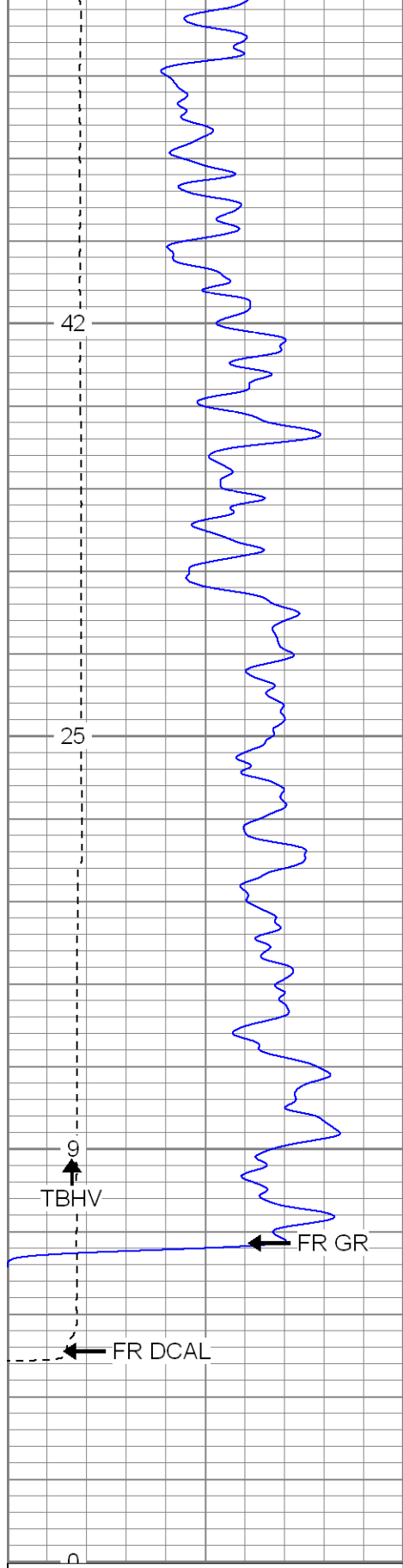




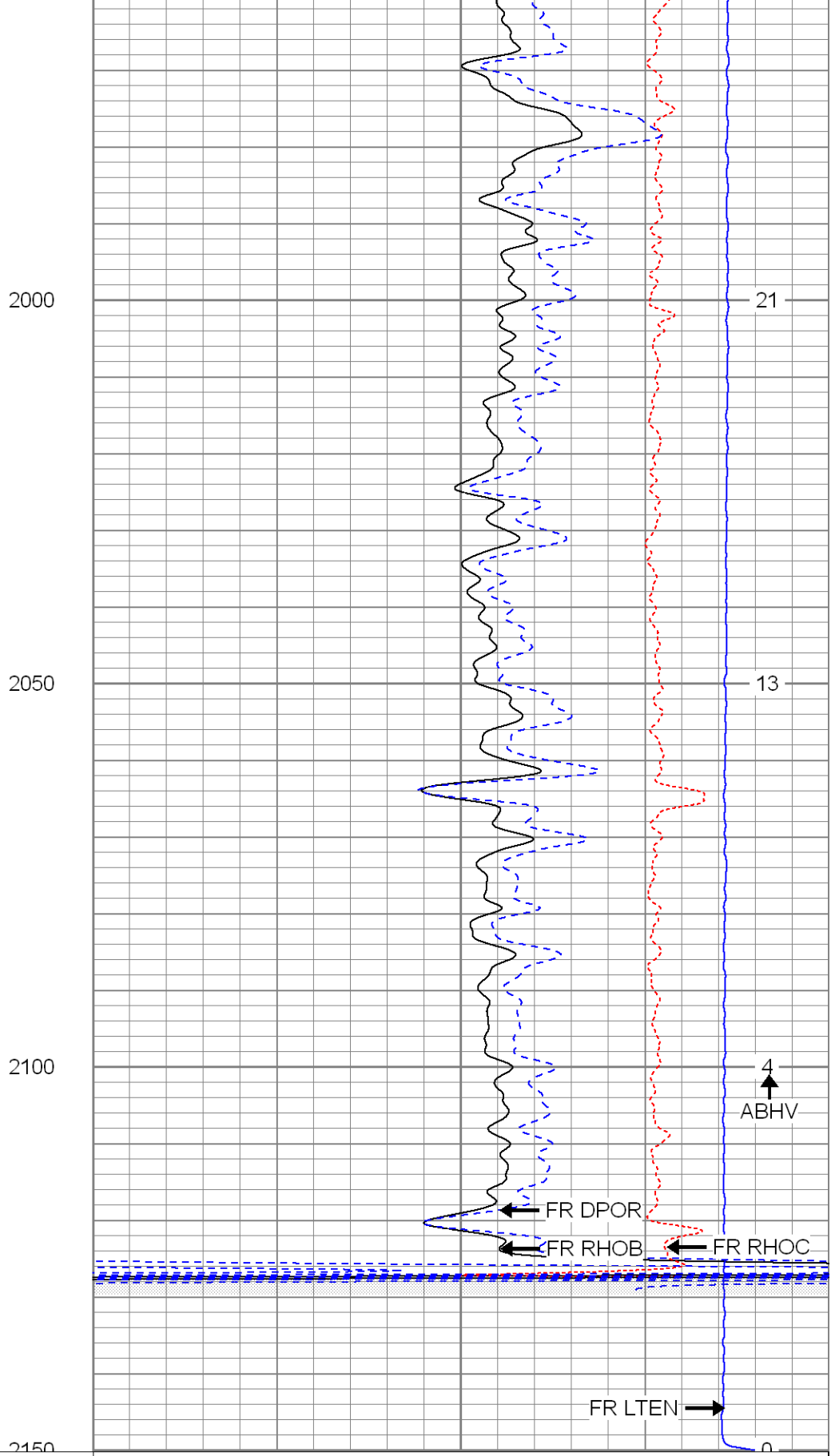








0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		



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)		

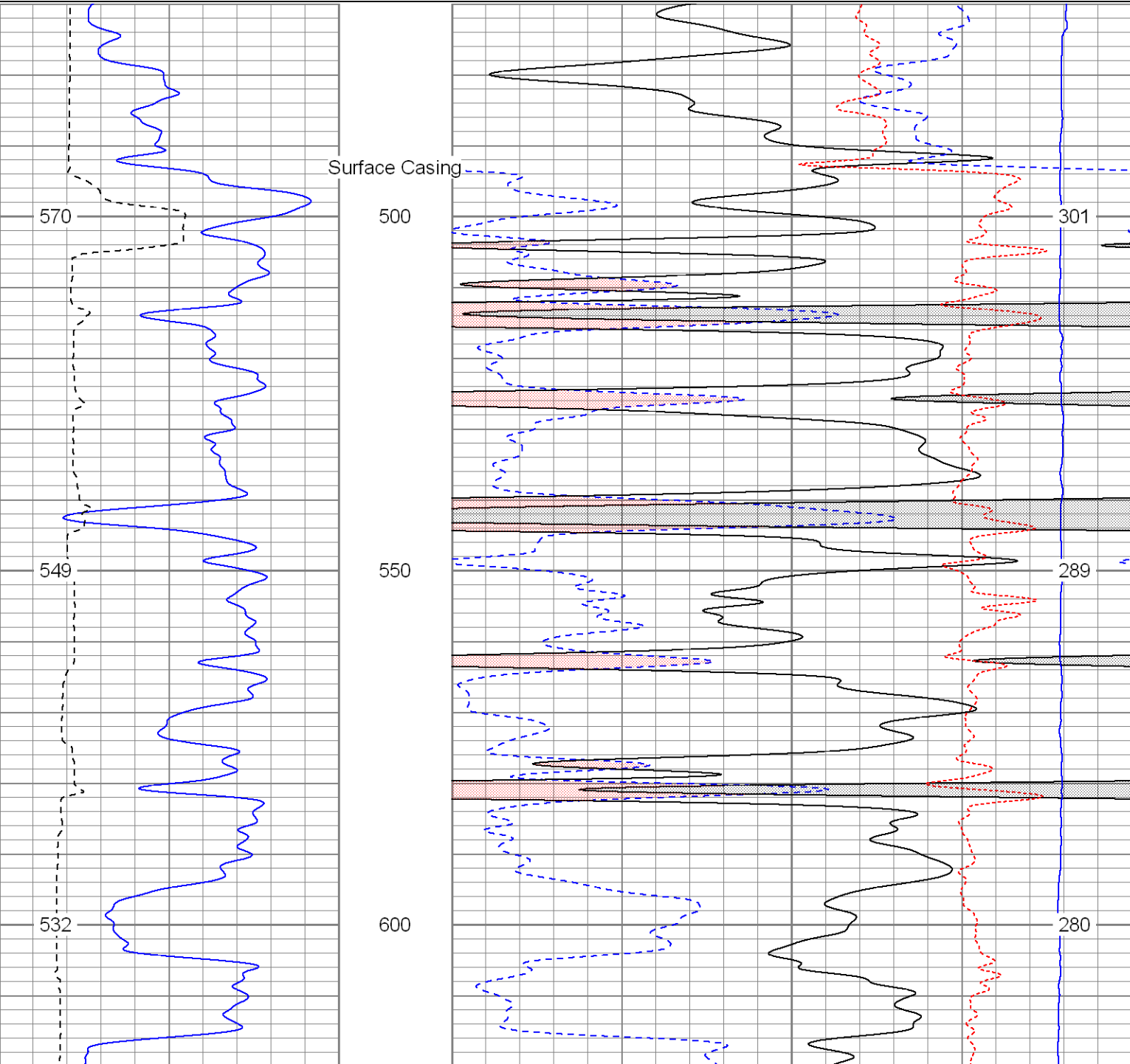


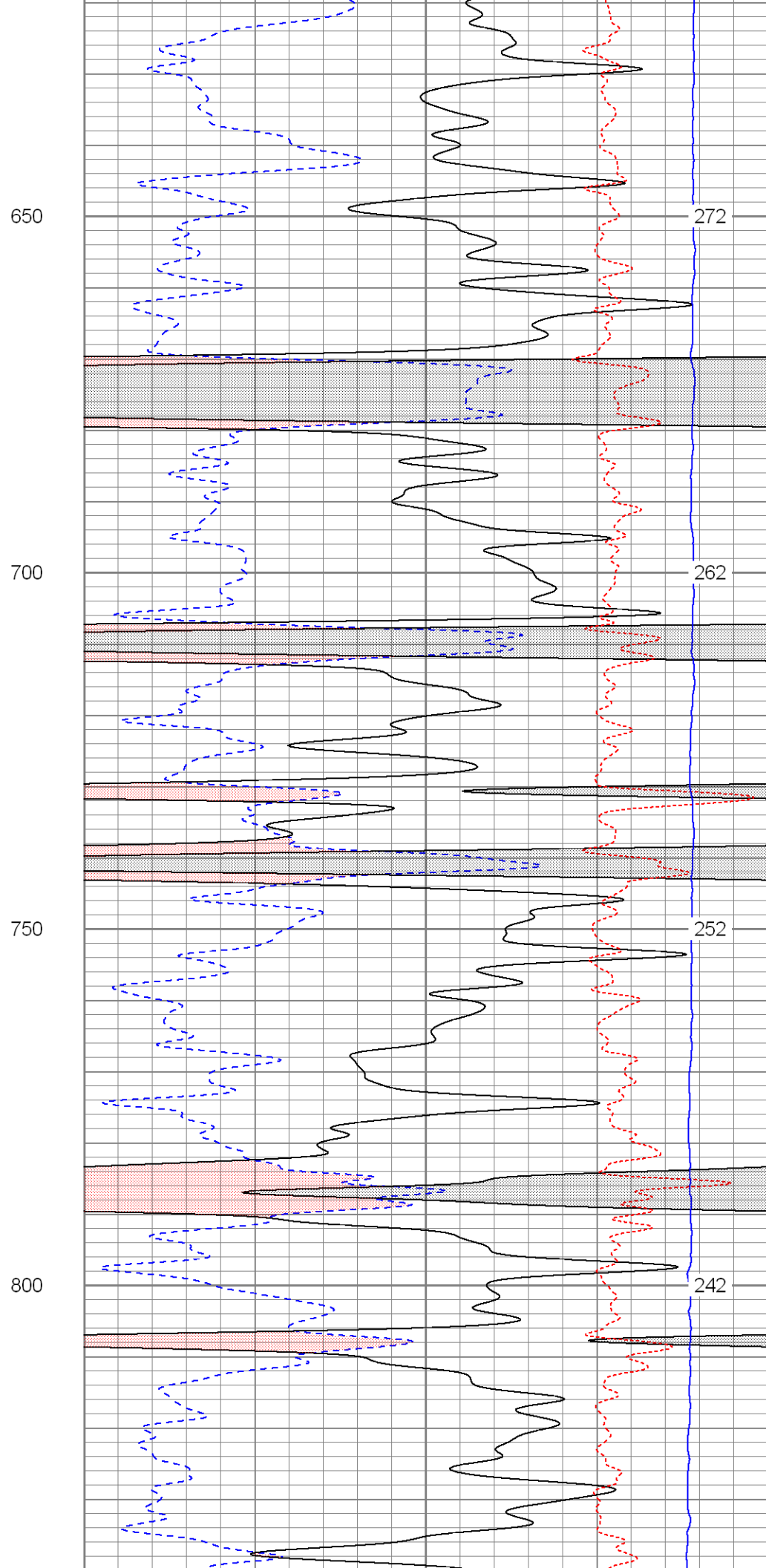
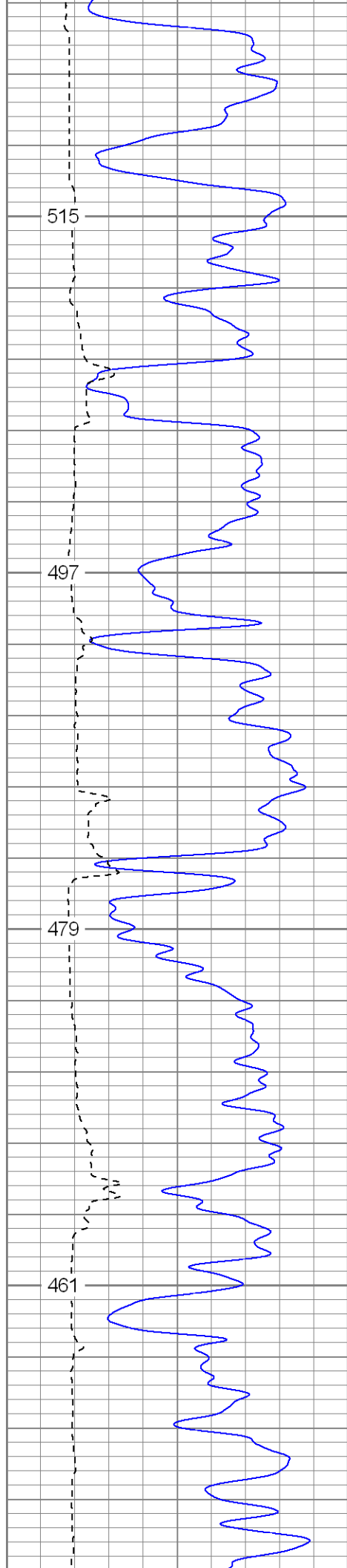
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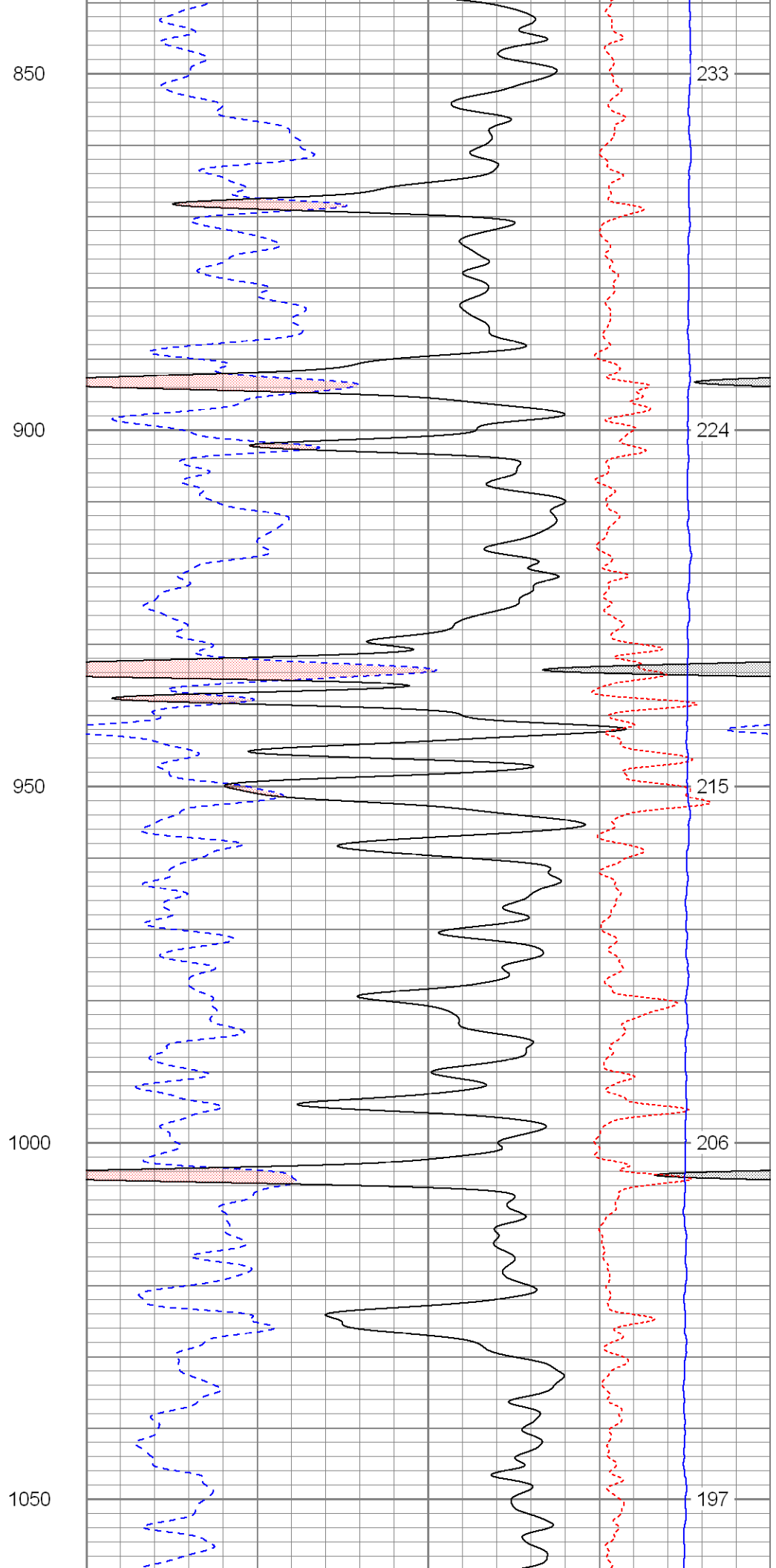
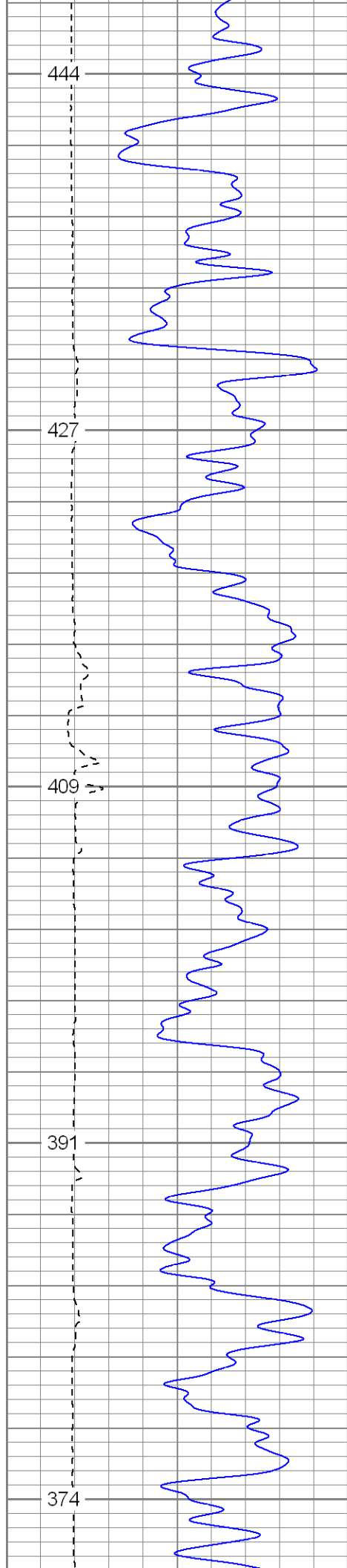
Main Pass

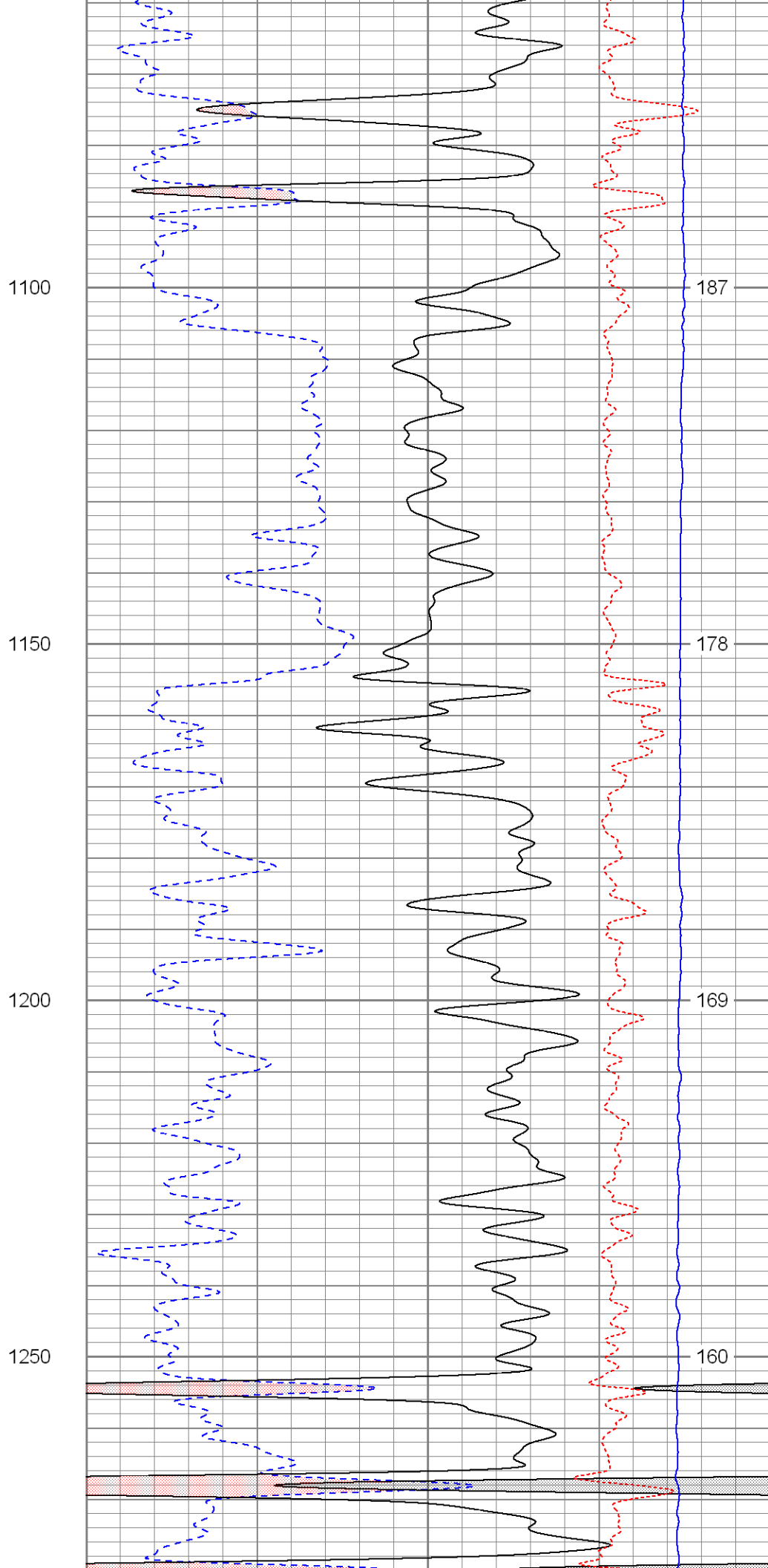
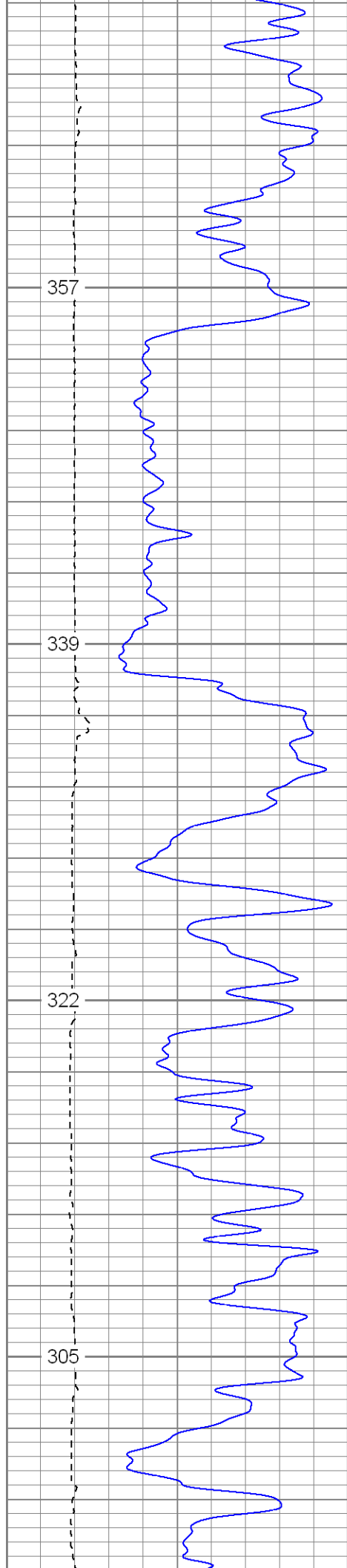
Database File: xtoge3304.db
Dataset Pathname: pass2.1
Presentation Format: cdnl
Dataset Creation: Thu Jul 03 13:00:11 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

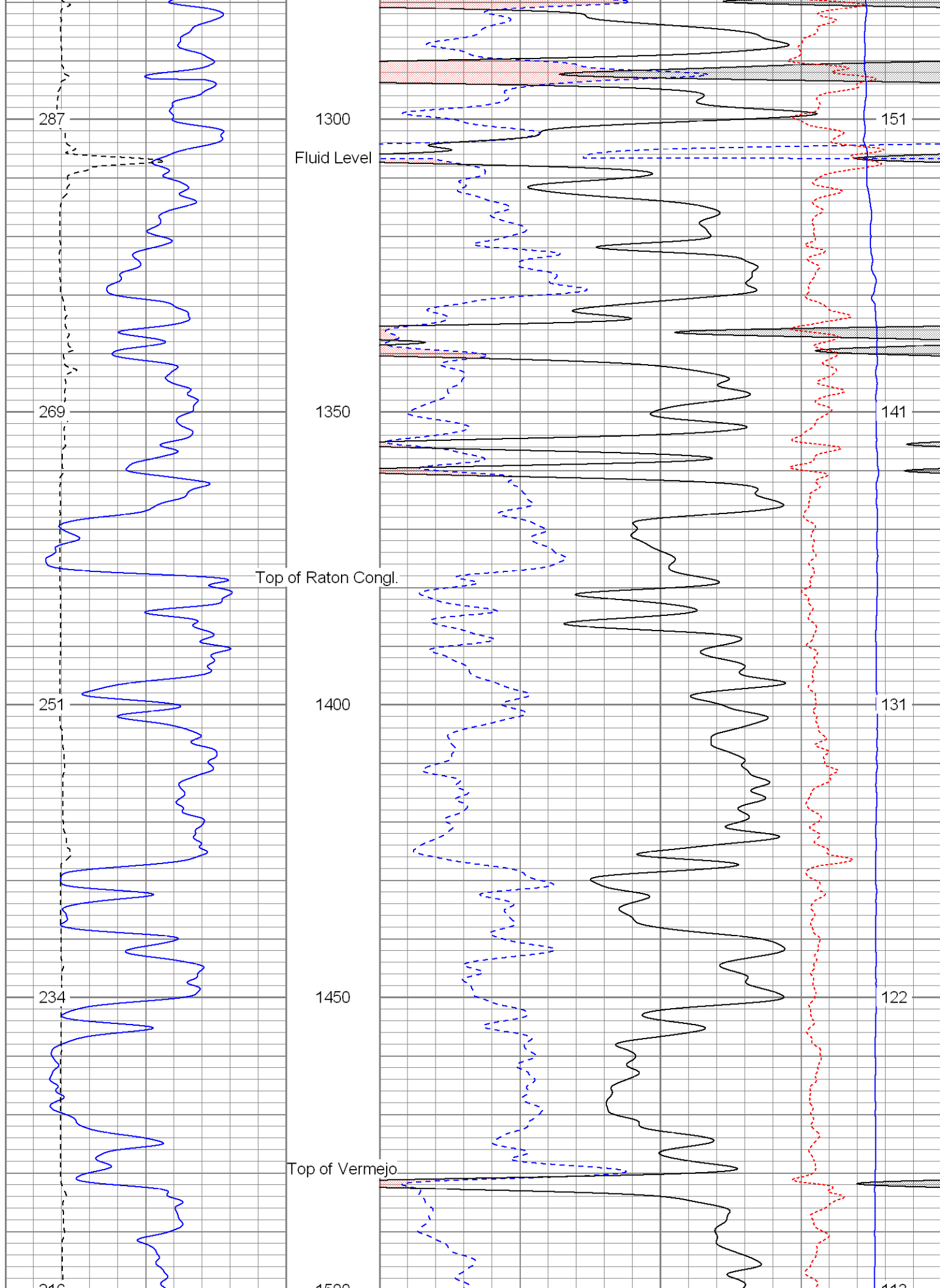
0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0
				ABHV (ft3)	

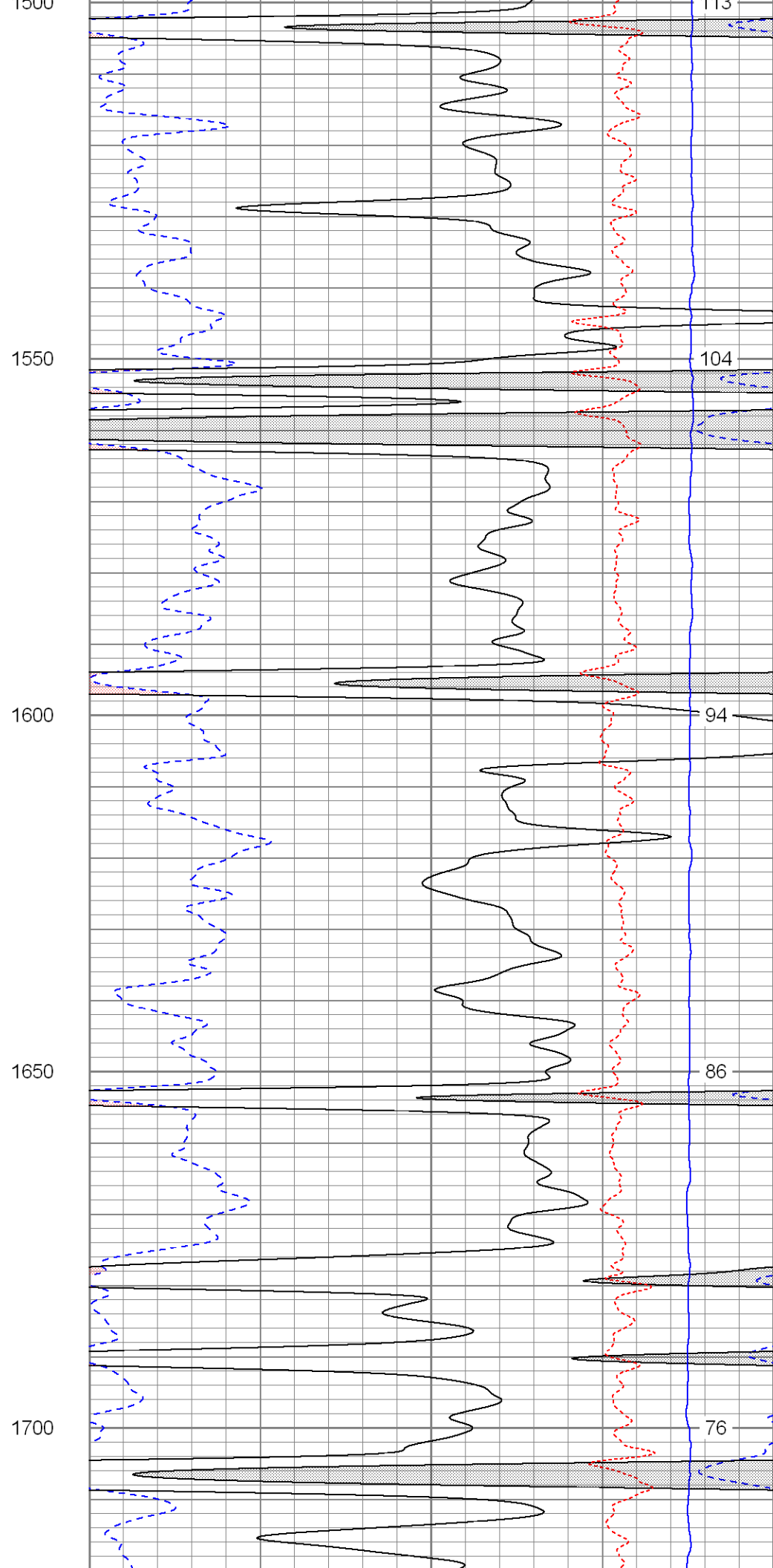
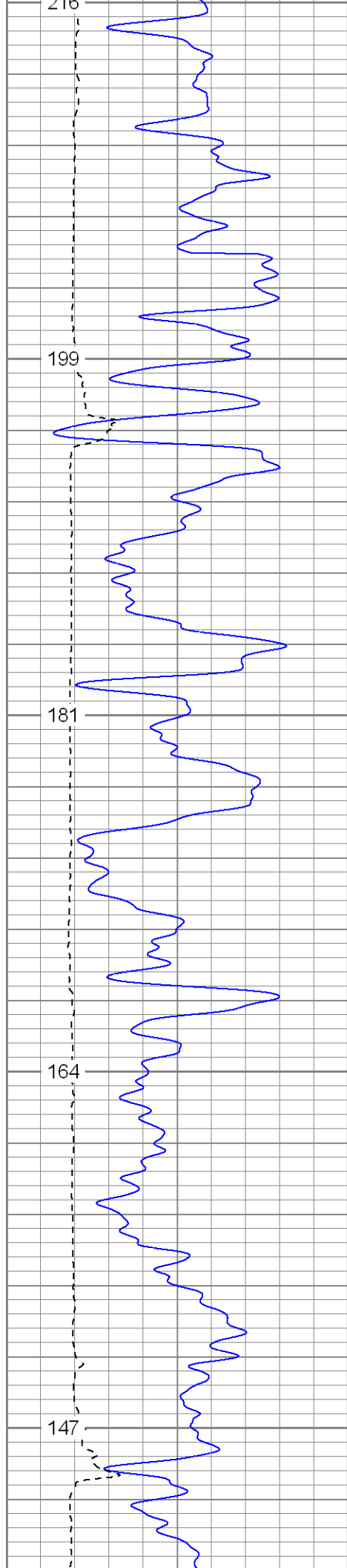


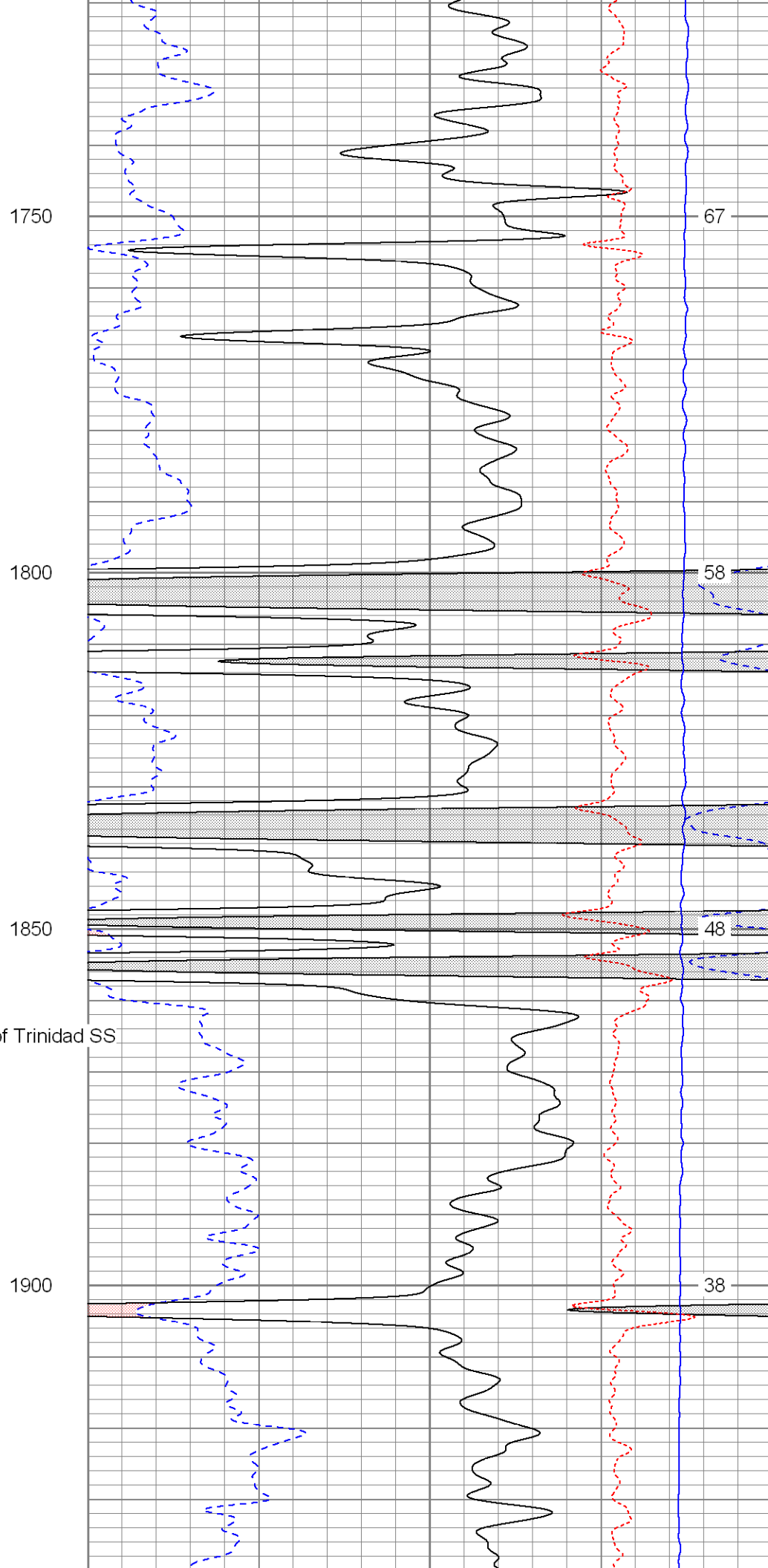
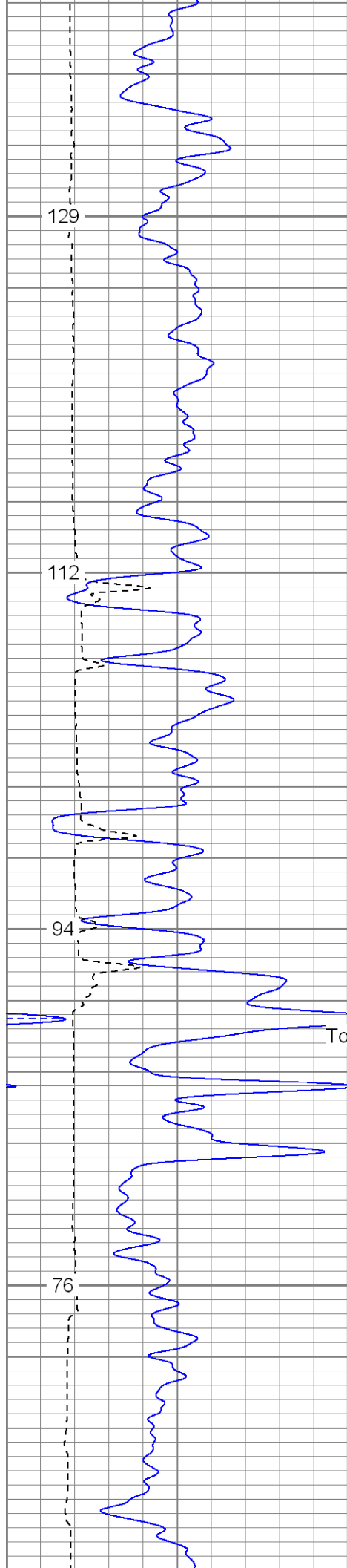


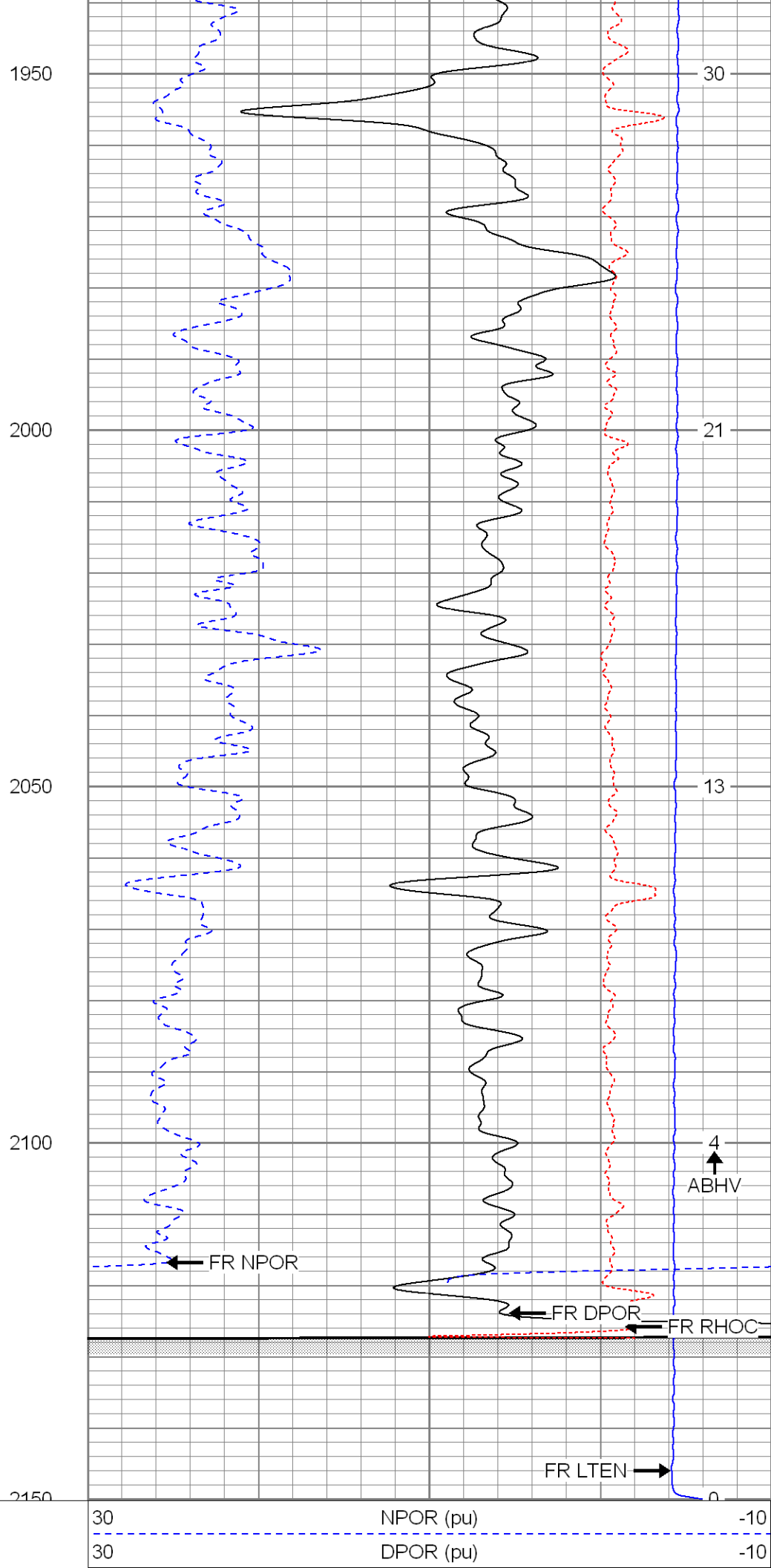
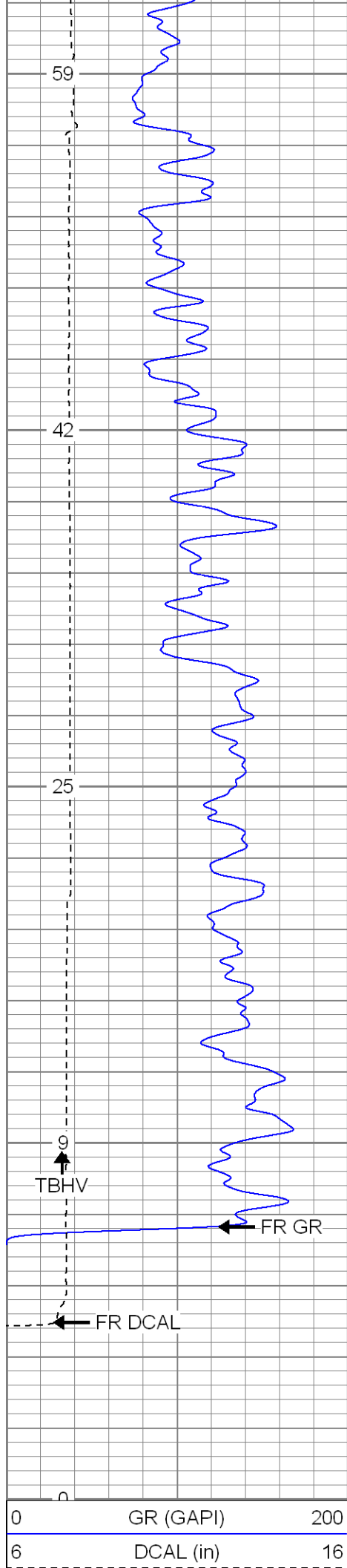












TBHV (ft3)

-0.5 RHOC (g/cc) 0.5

4000 LTEN (lb) 0

ABHV (ft3)



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Repeat Pass

Database File: xtoge3304.db
Dataset Pathname: pass1.1
Presentation Format: cdnl
Dataset Creation: Thu Jul 03 11:55:28 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 200

6 DCAL (in) 16

TBHV (ft3)

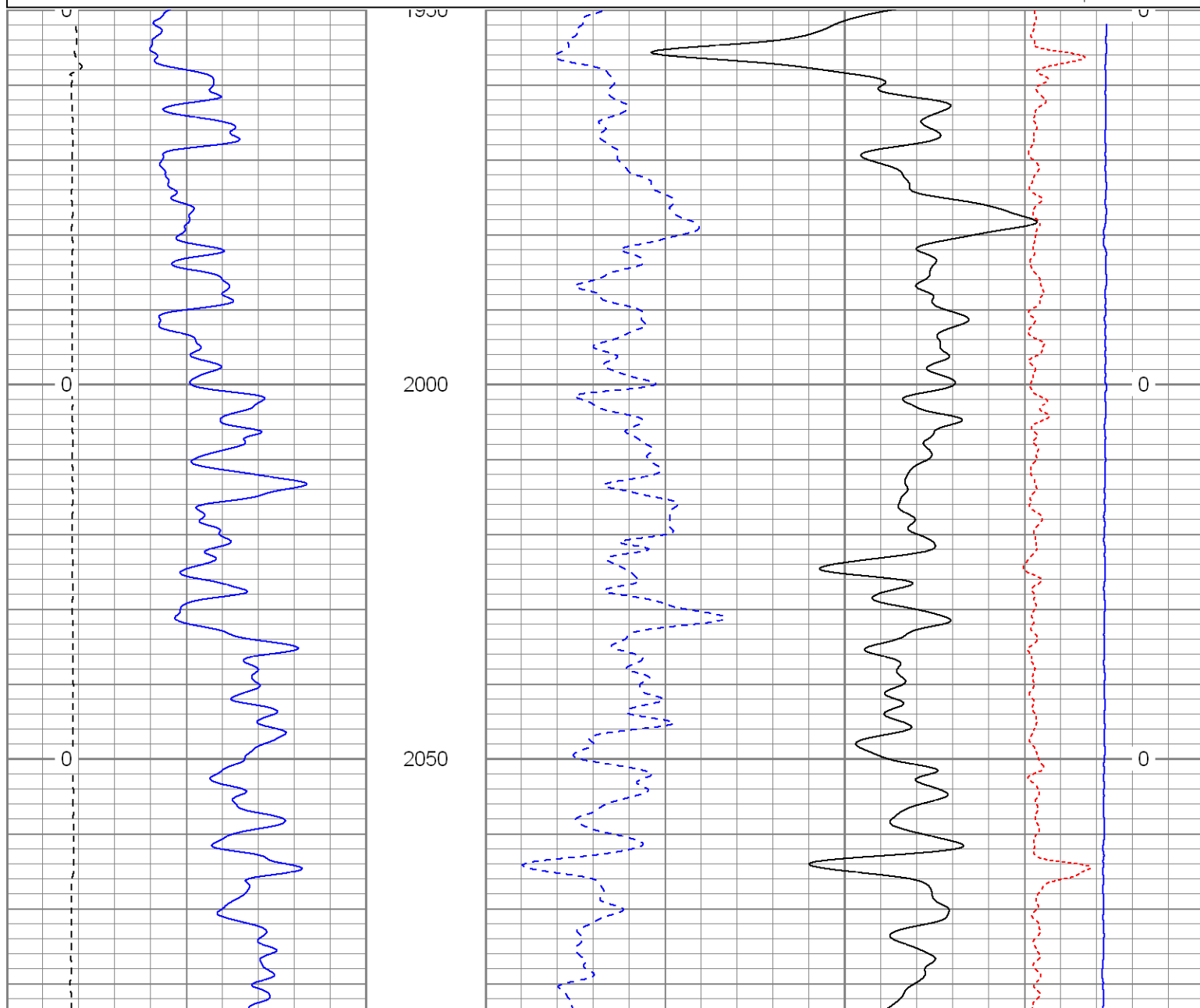
30 NPOR (pu) -10

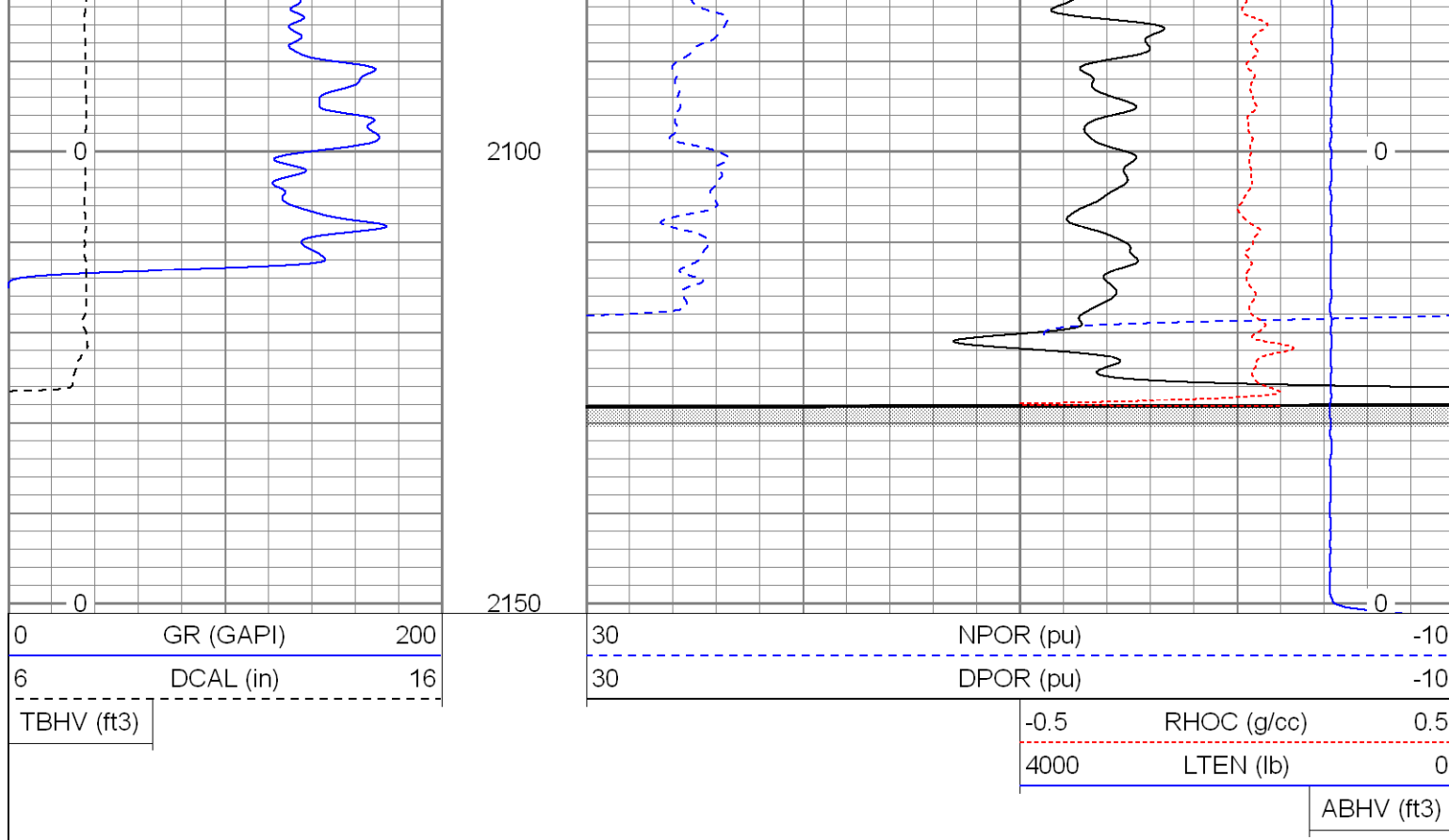
30 DPOR (pu) -10

-0.5 RHOC (g/cc) 0.5

4000 LTEN (lb) 0

ABHV (ft3)





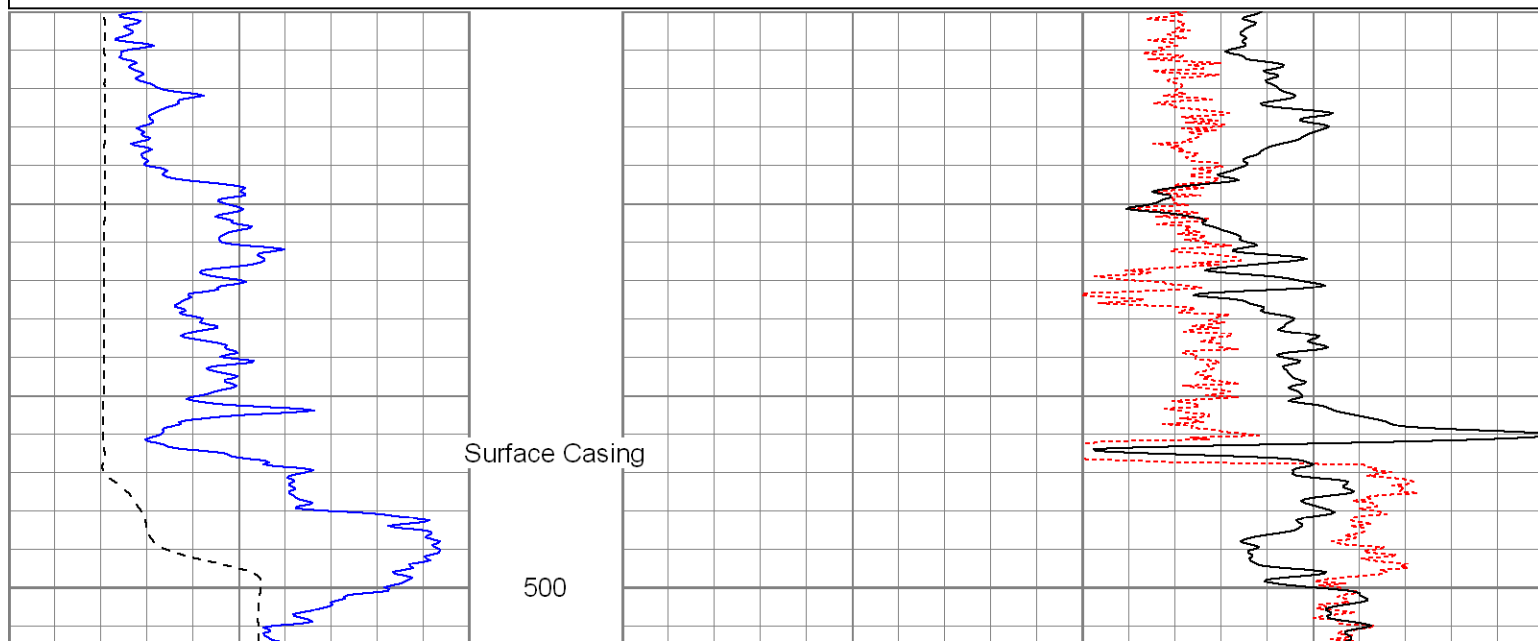
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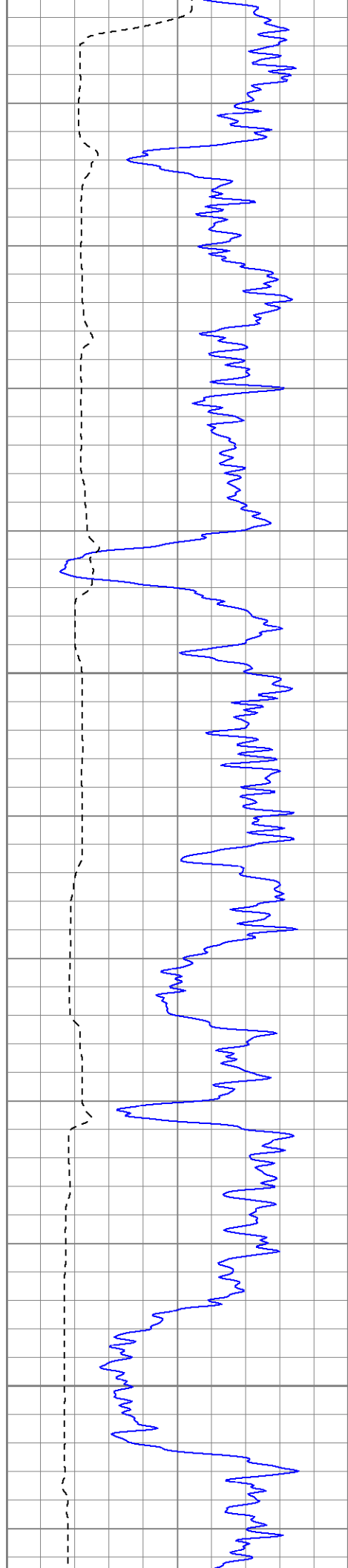
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High Resolution Pass

Database File: xtoge3304.db
Dataset Pathname: pass2.2
Presentation Format: cdlhr
Dataset Creation: Thu Jul 03 15:45:34 2008 by Calc Open-Cased 070814
Charted by: Depth in Feet scaled 1:120

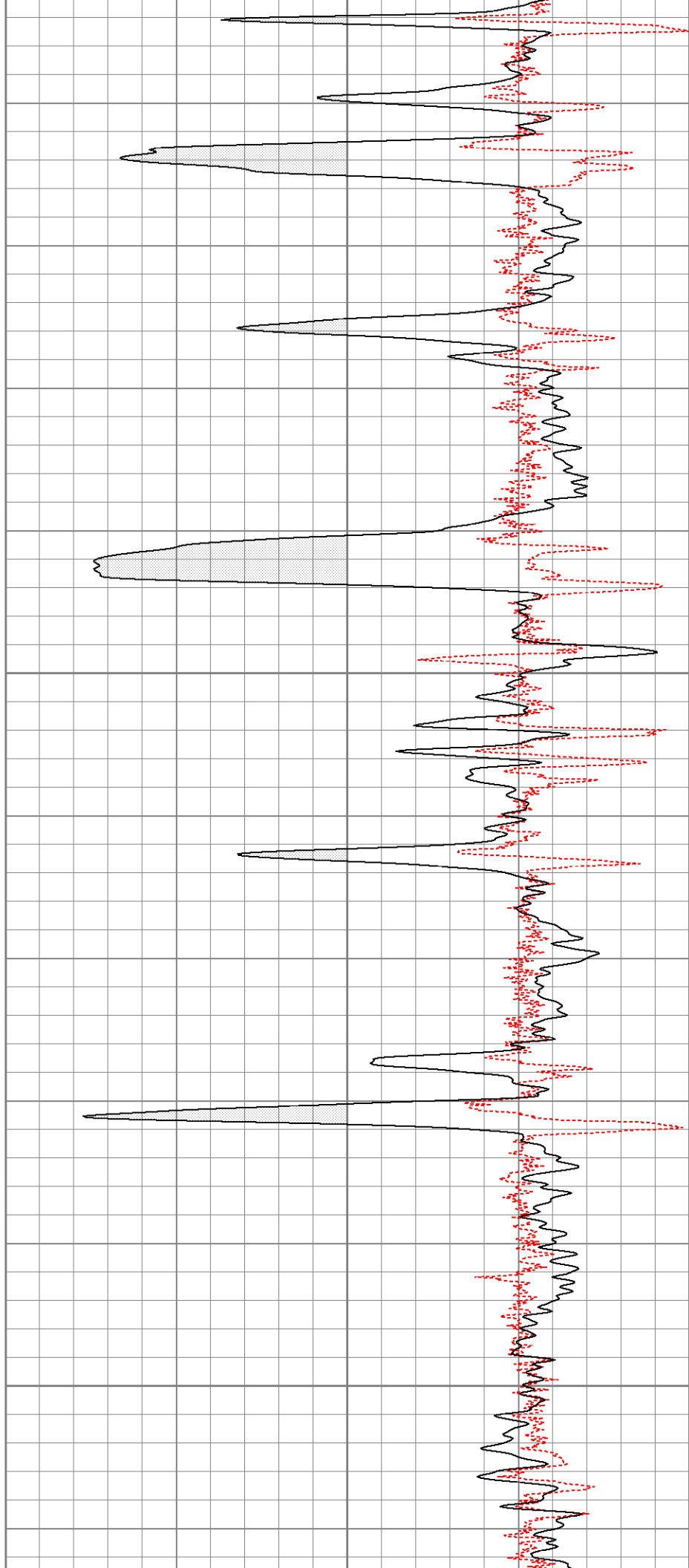
0	GR (GAPI)	200	1	RHOB (g/cc)	3
6	DCAL (in)	16	-0.5	RHOC (g/cc)	0.5





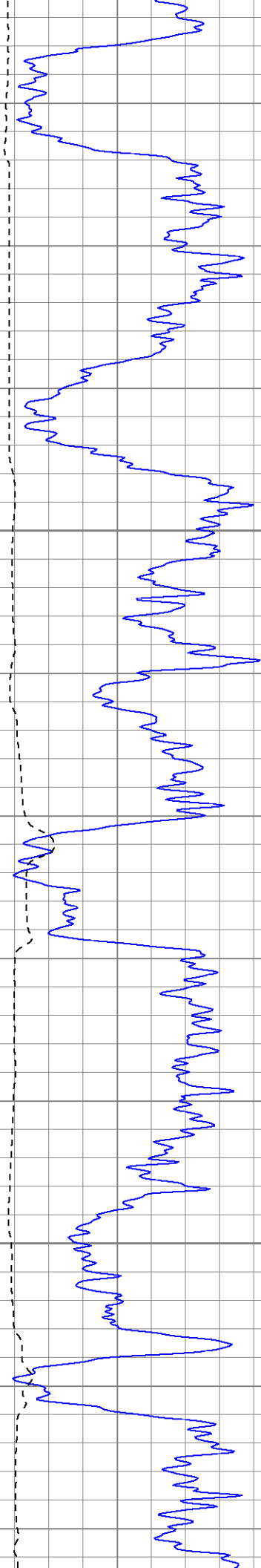
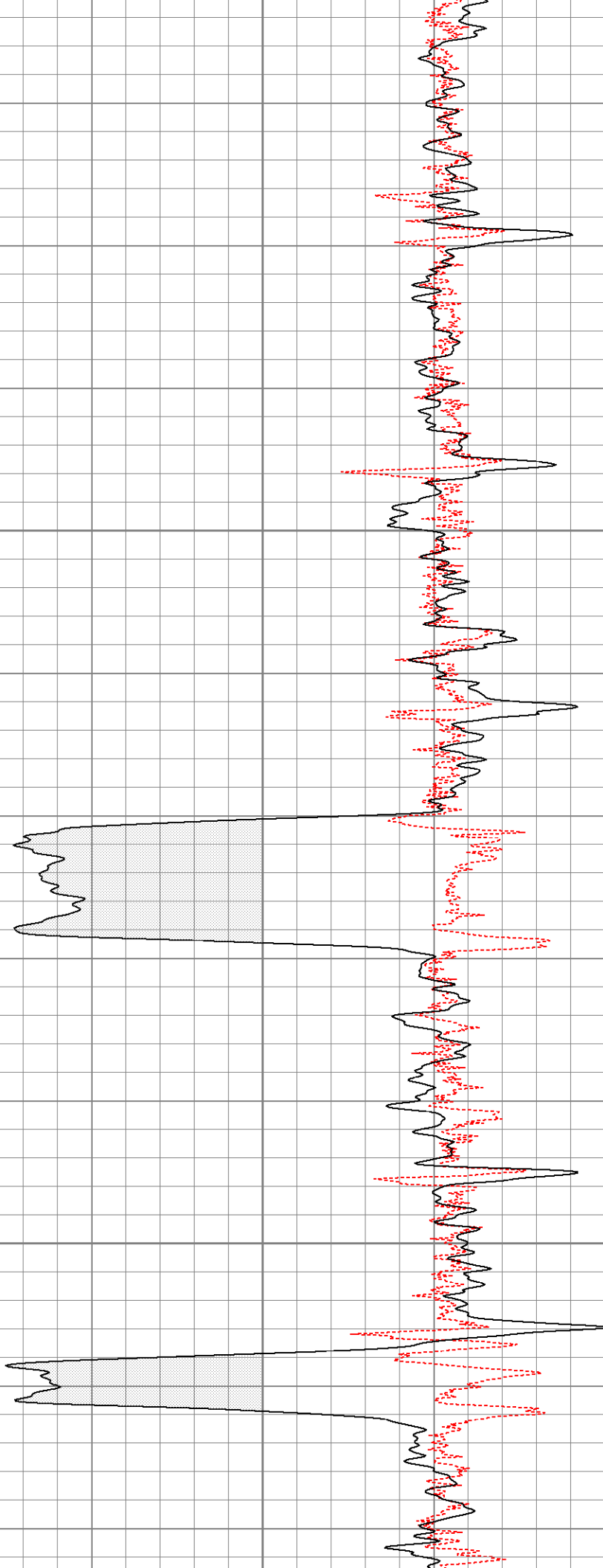
550

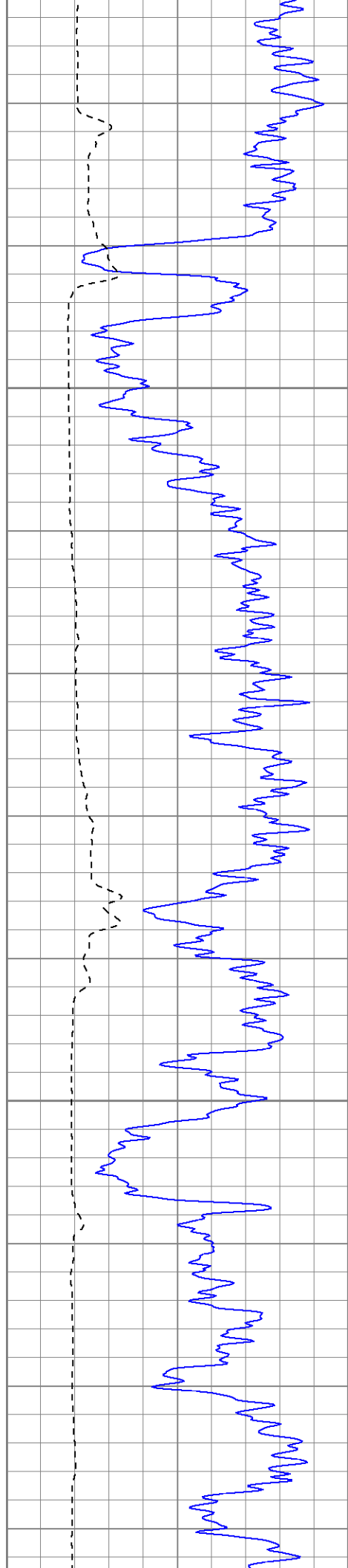
600



650

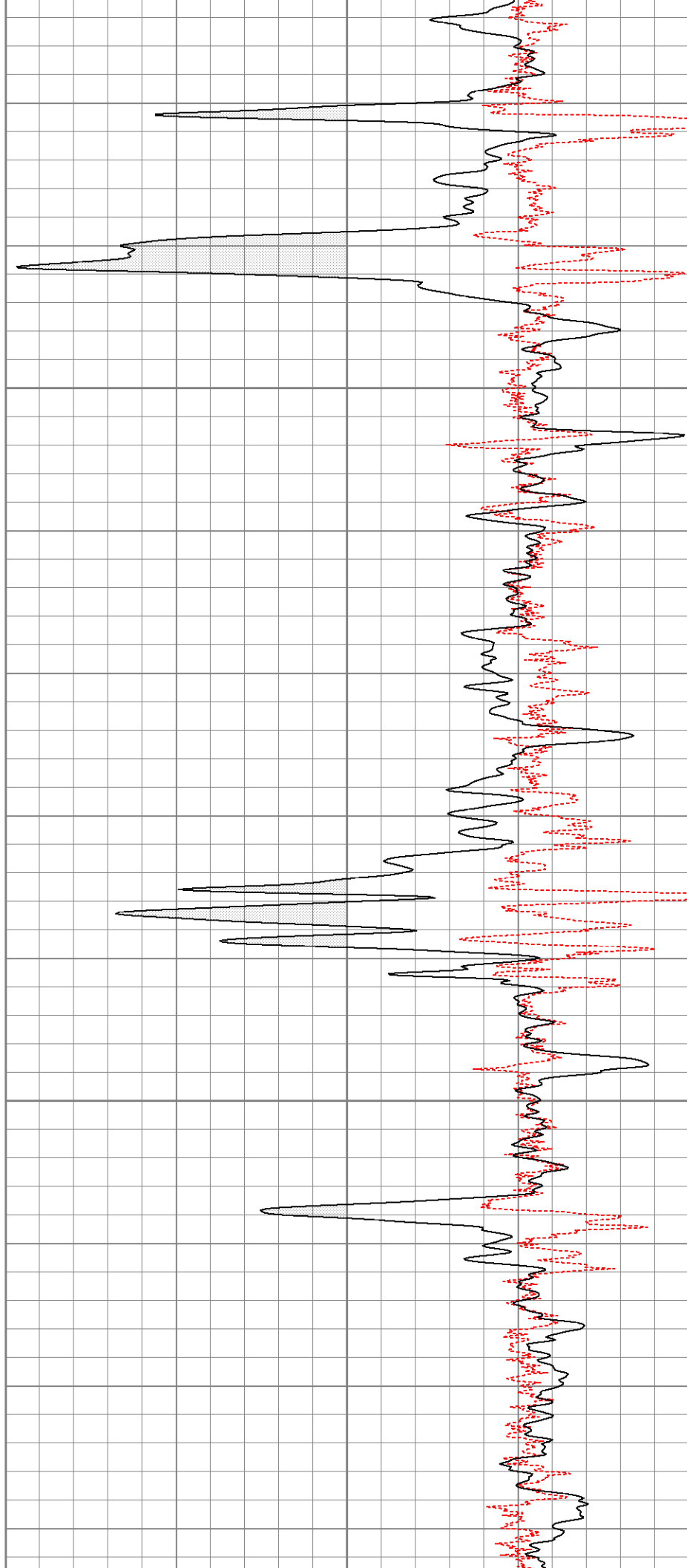
700

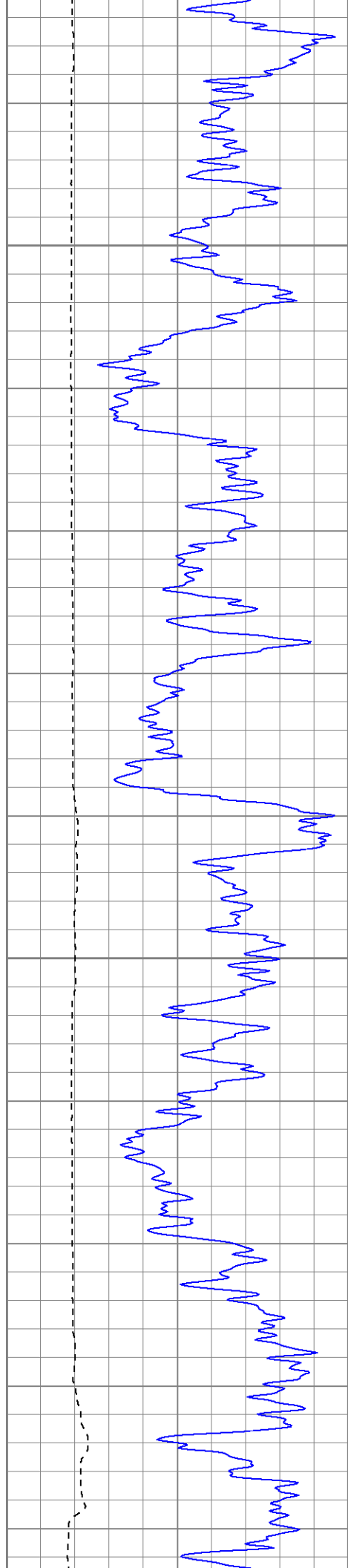




750

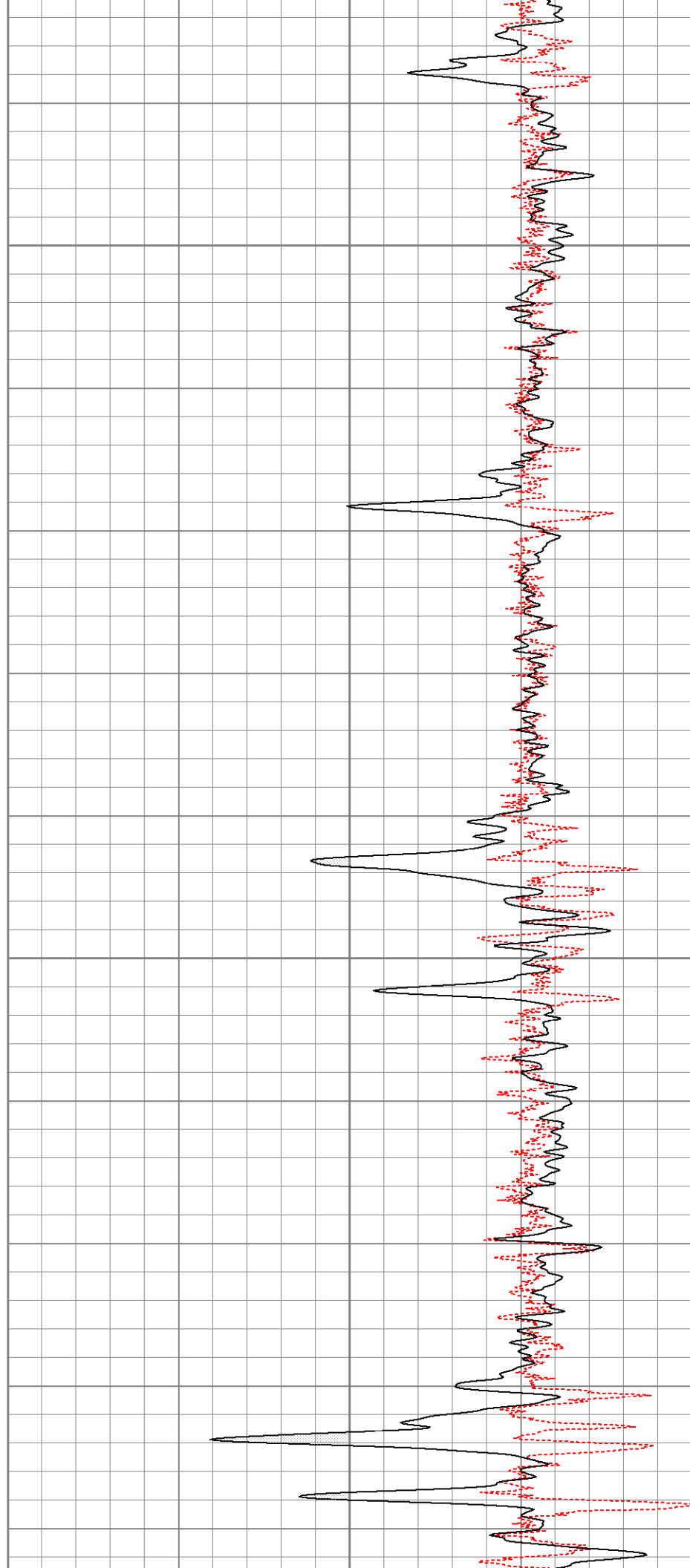
800

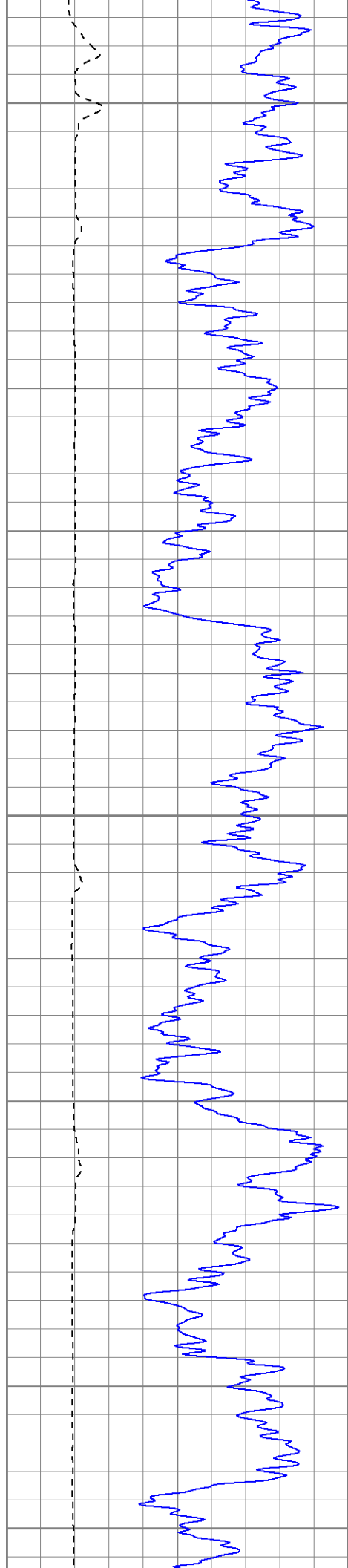




850

900

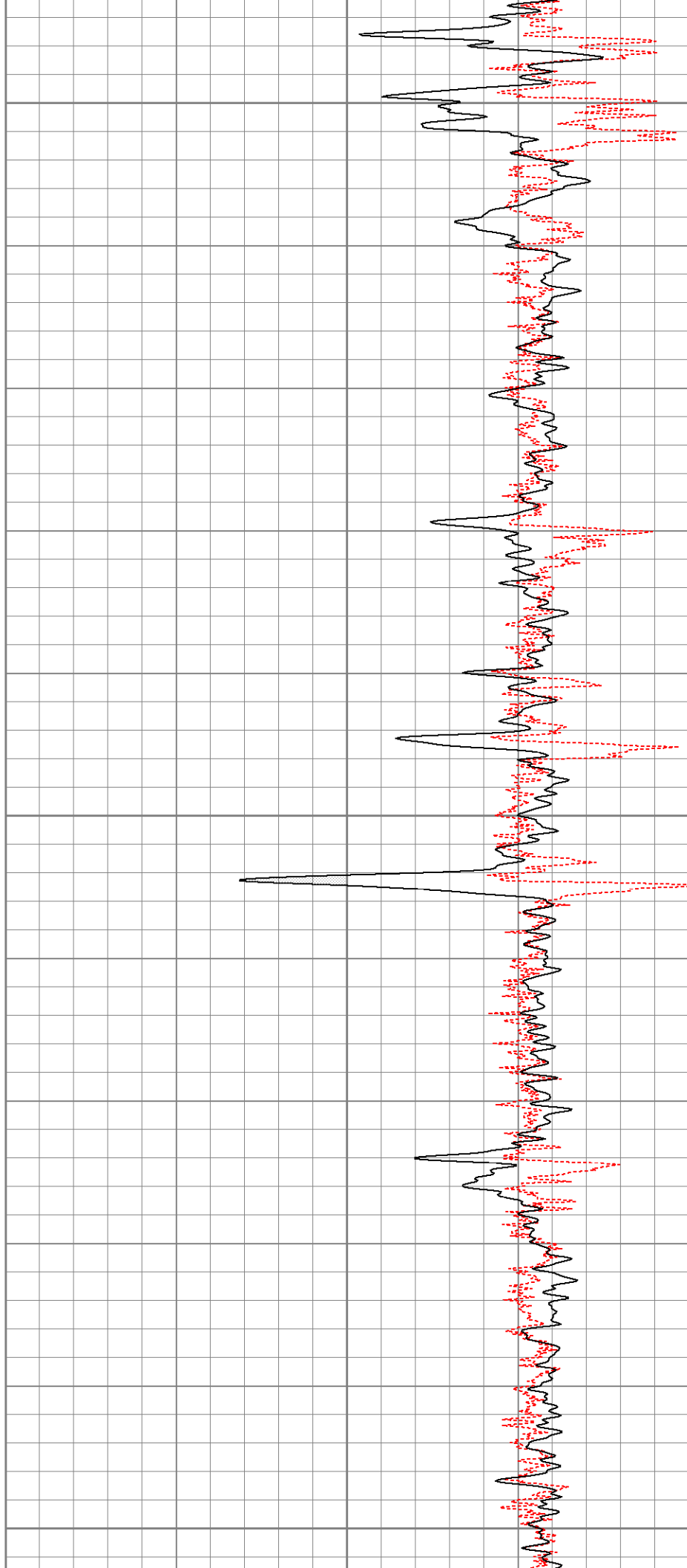


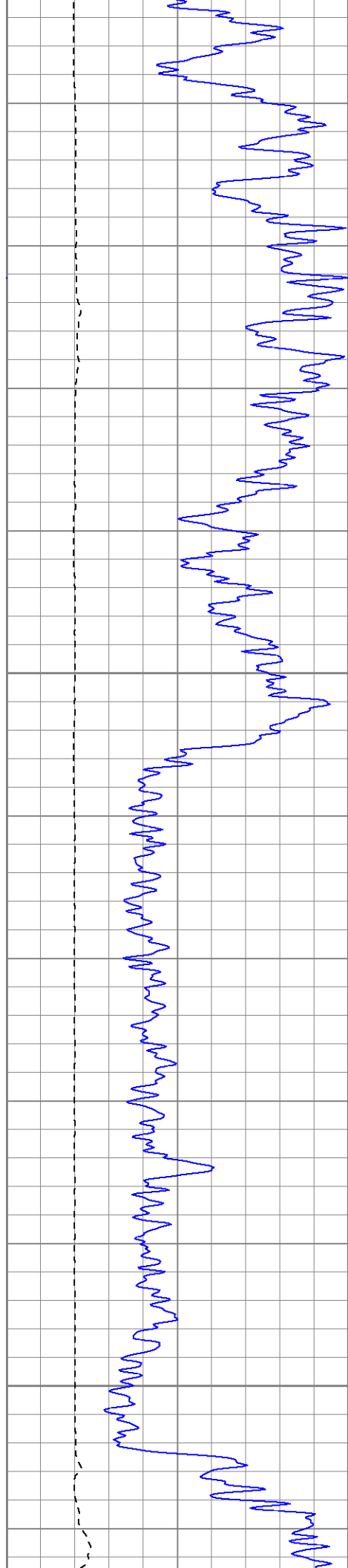


950

1000

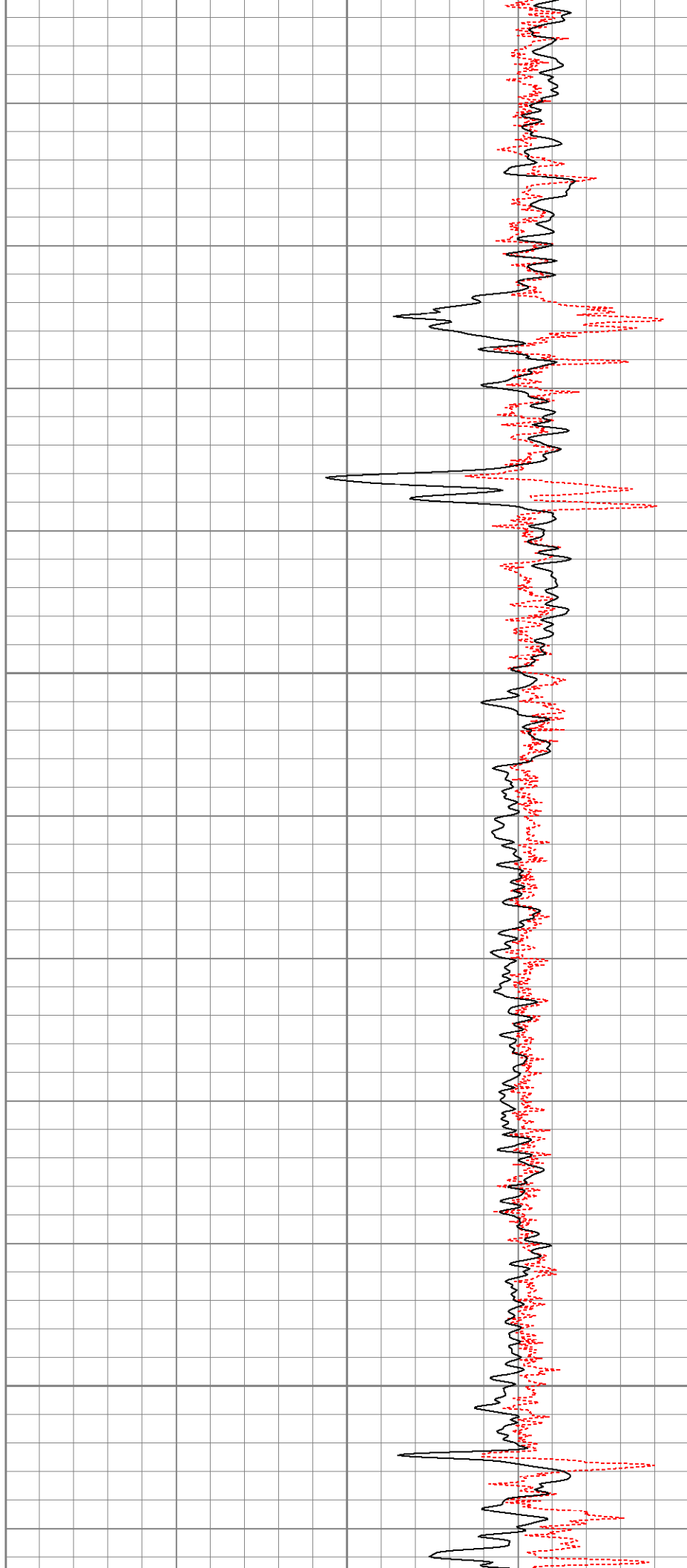
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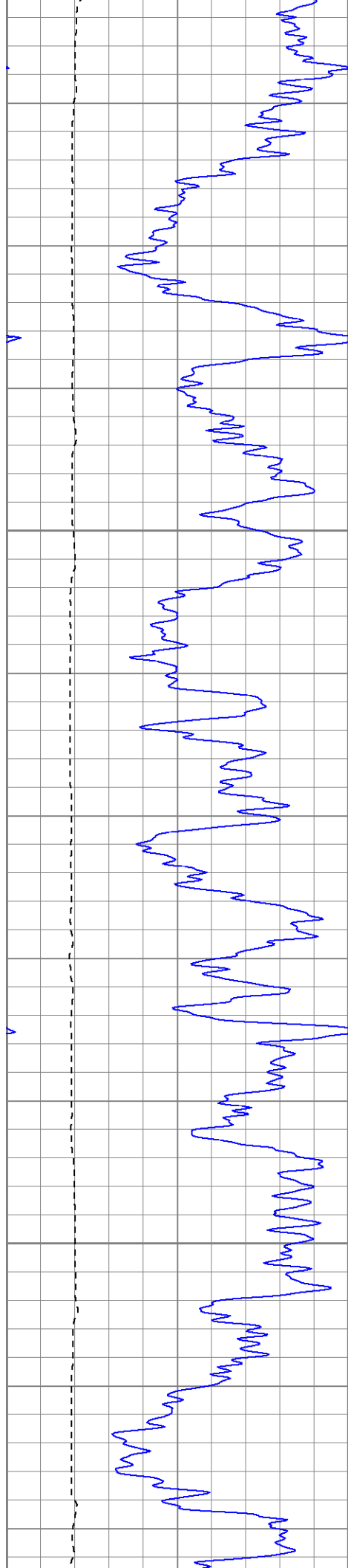




1100

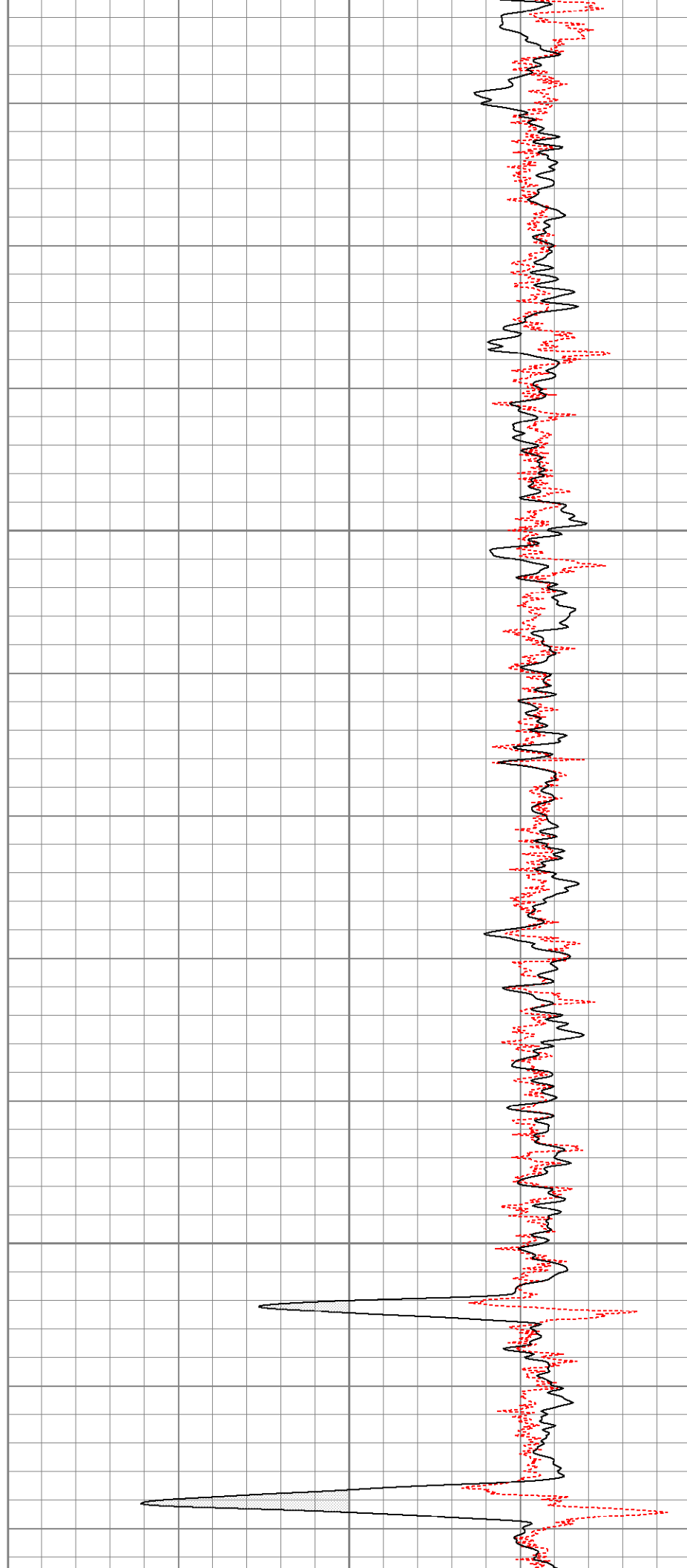
1150

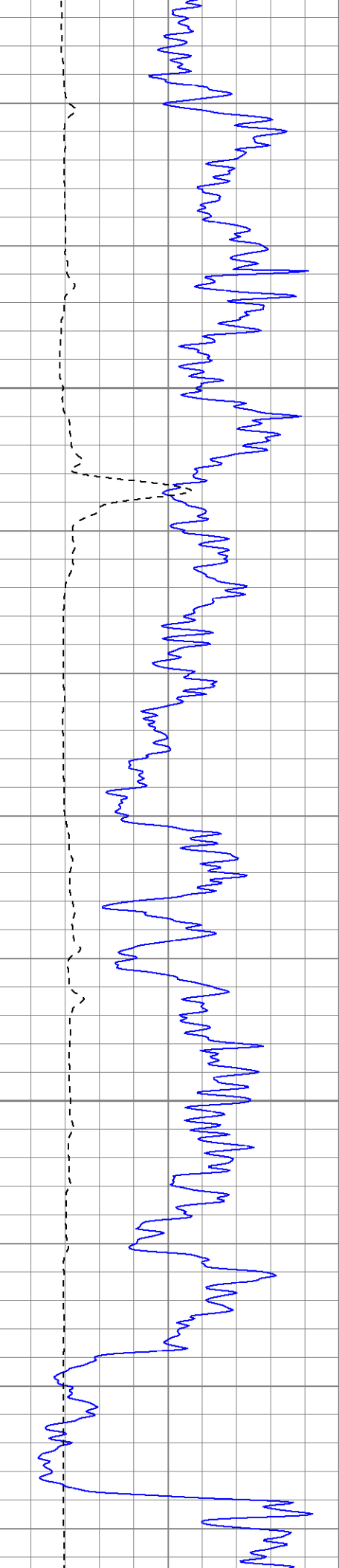




1200

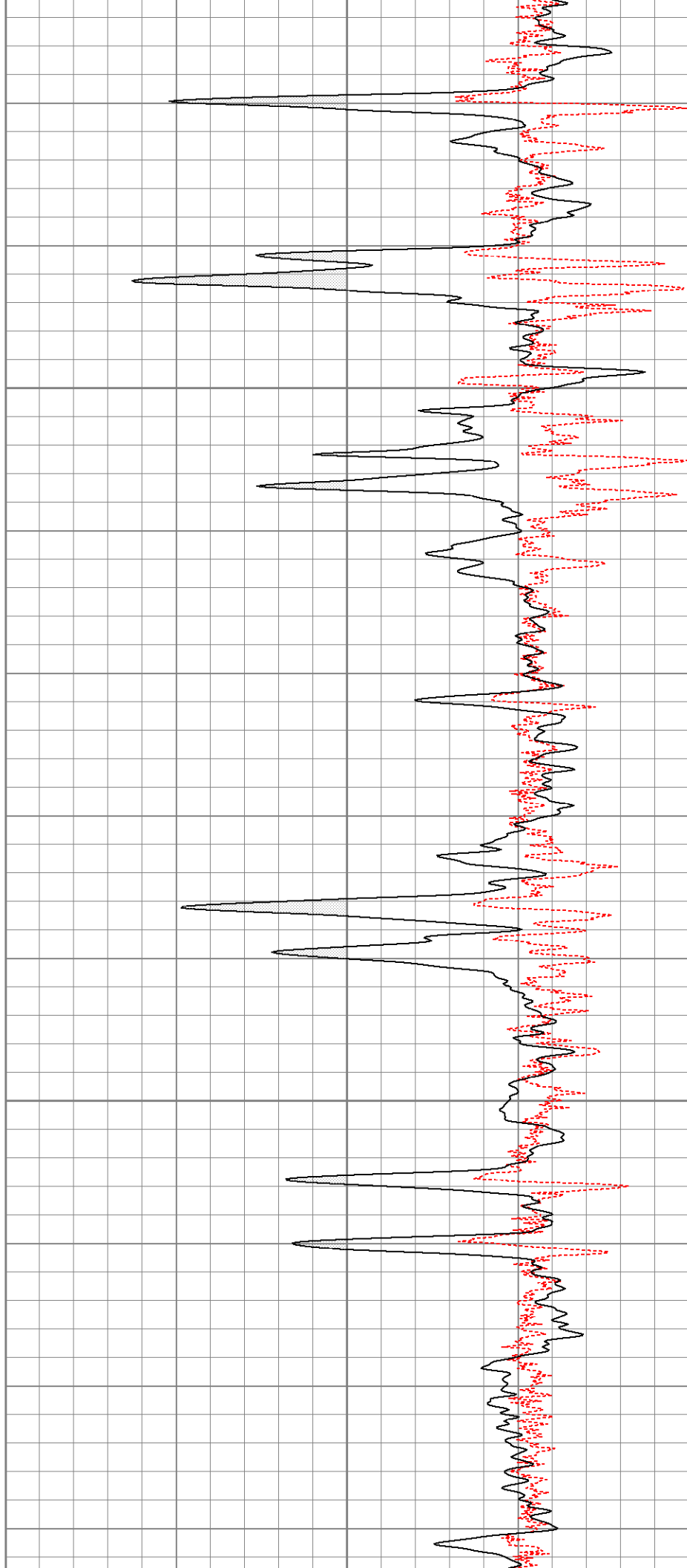
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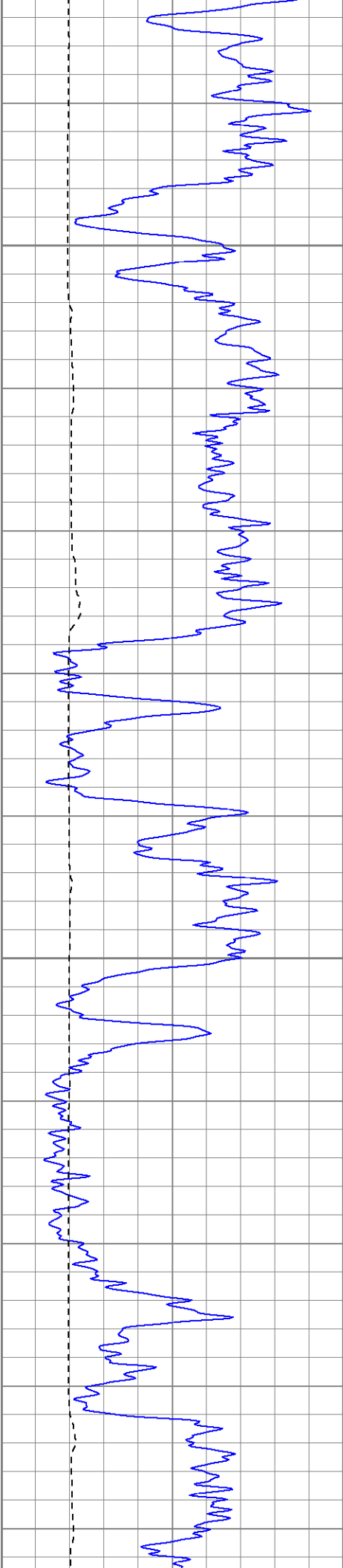




1300

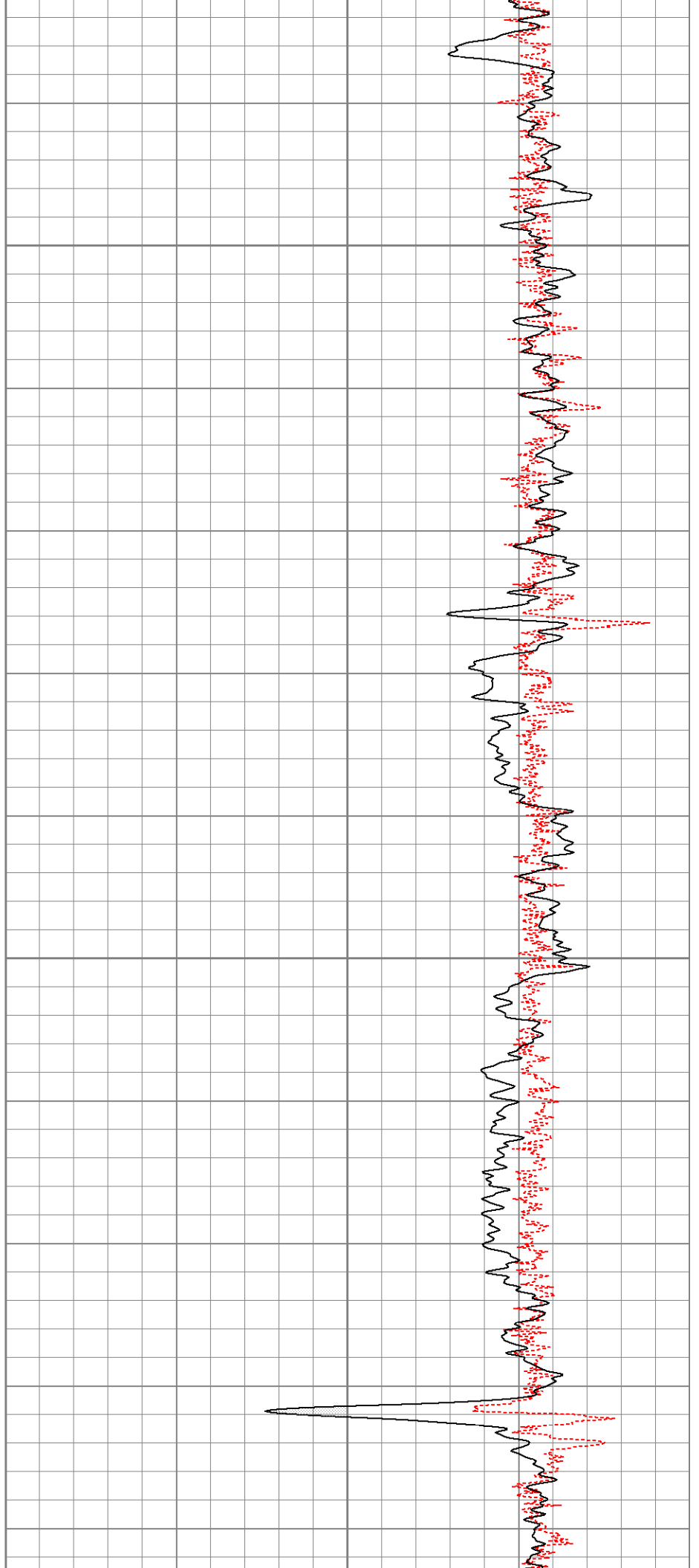
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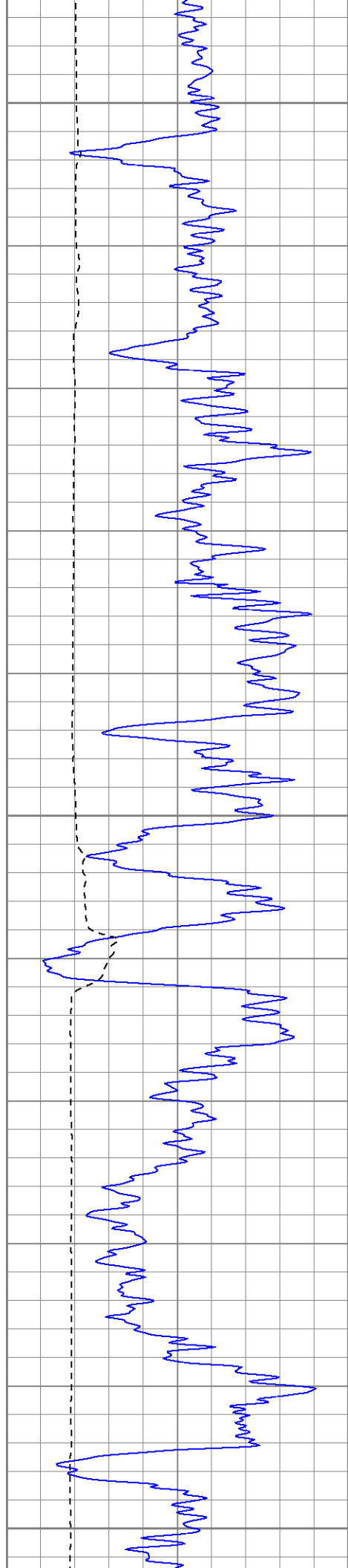




1400

1450

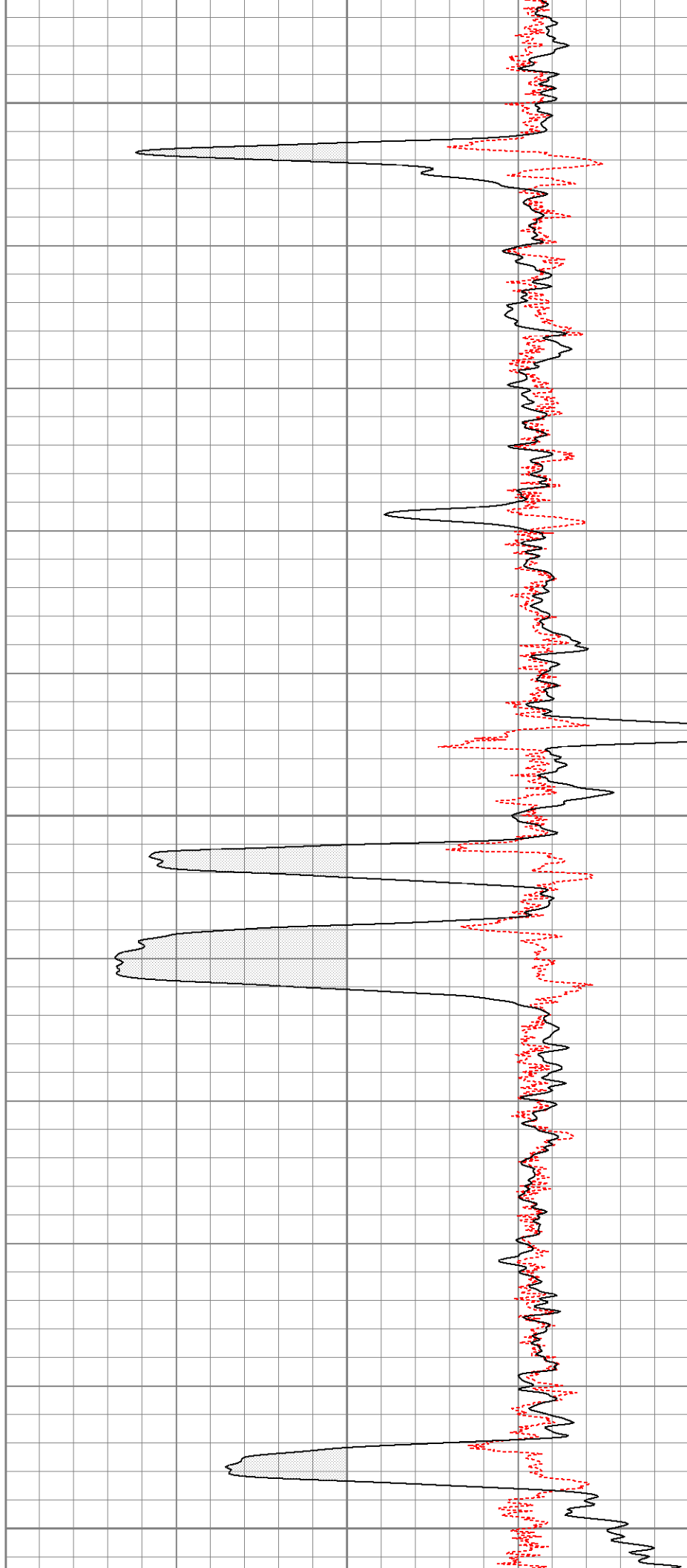


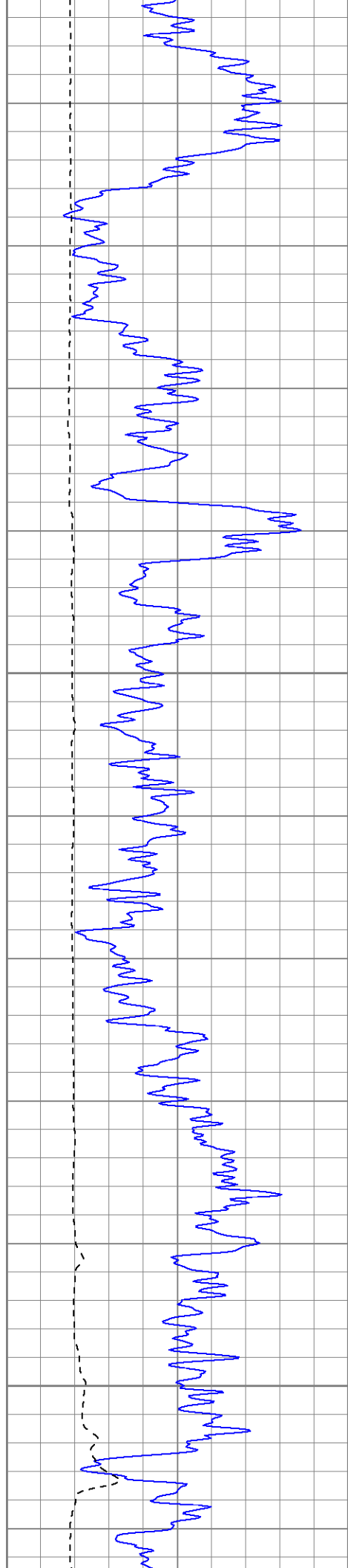


1500

1550

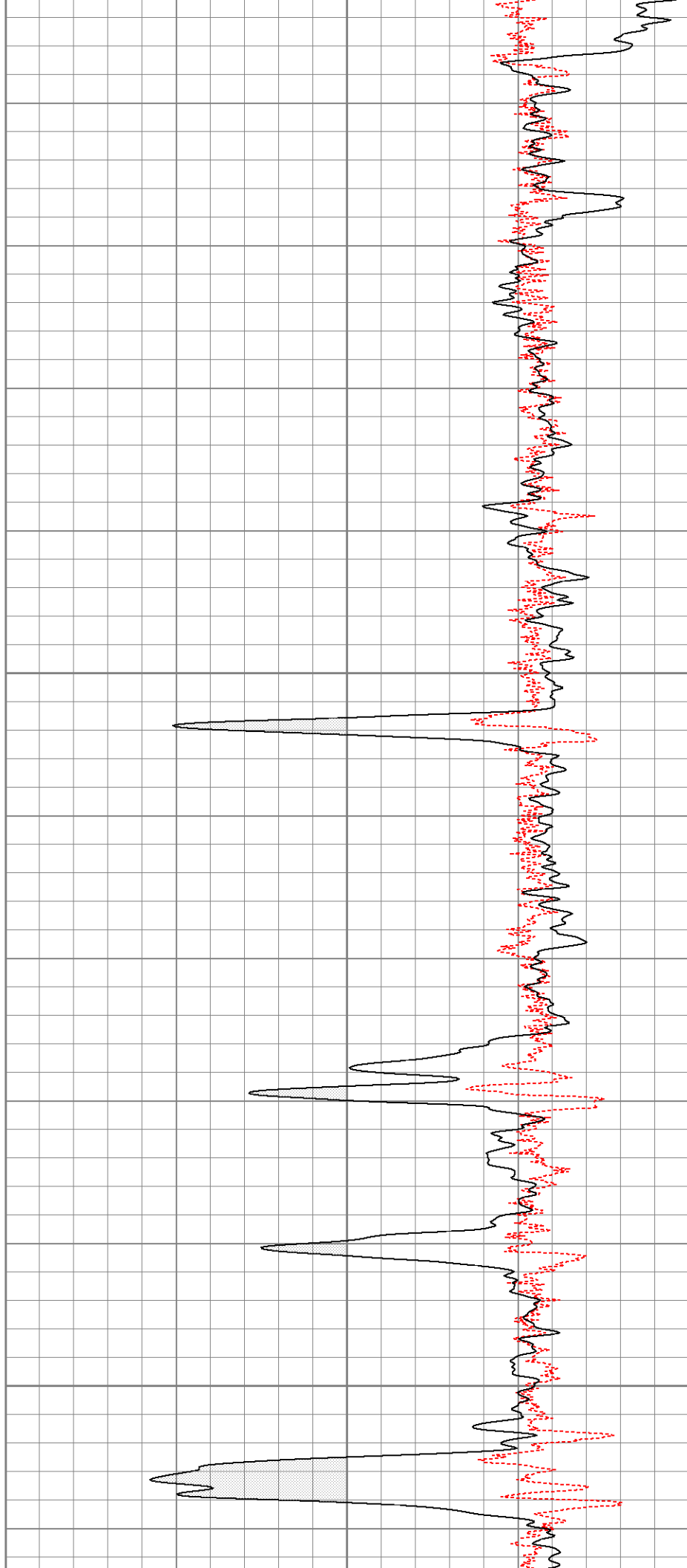
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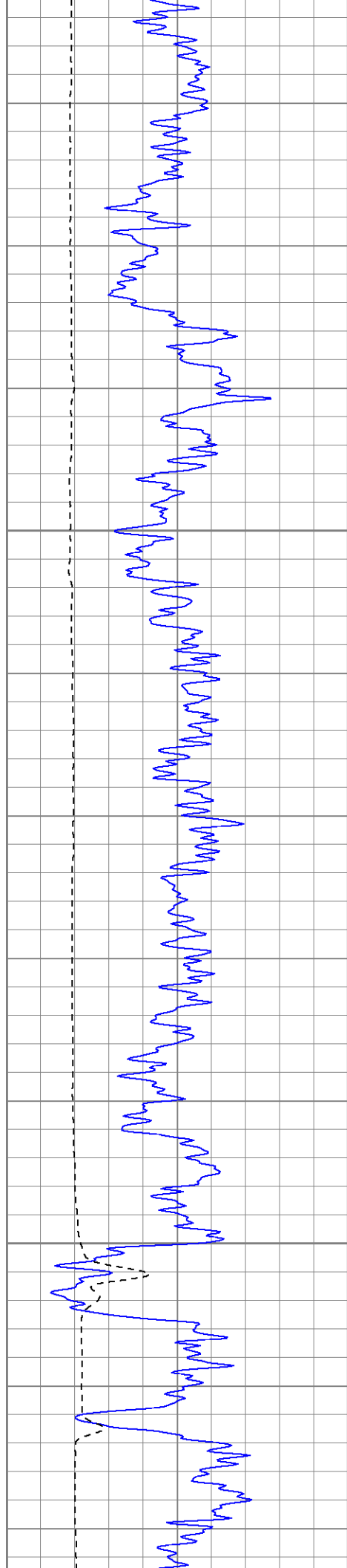




1650

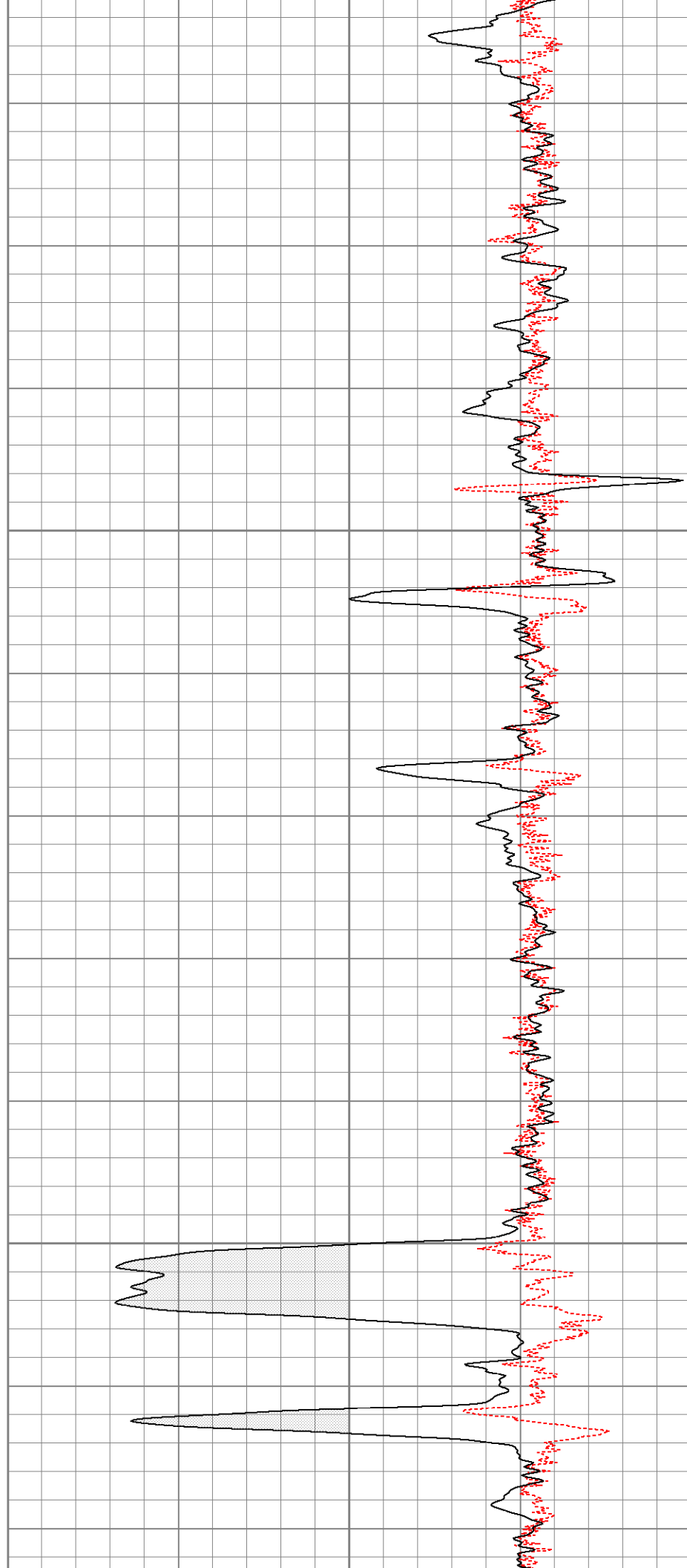
1700

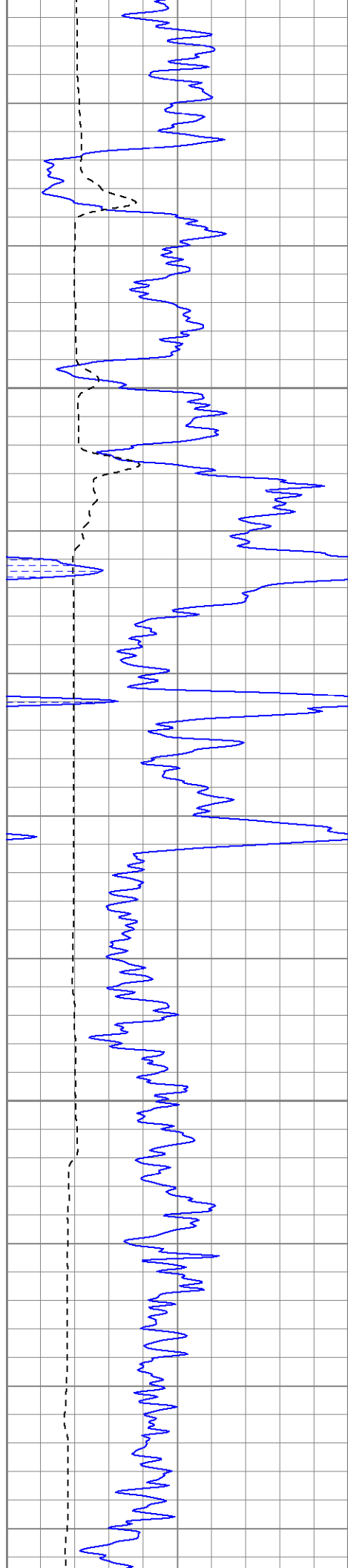




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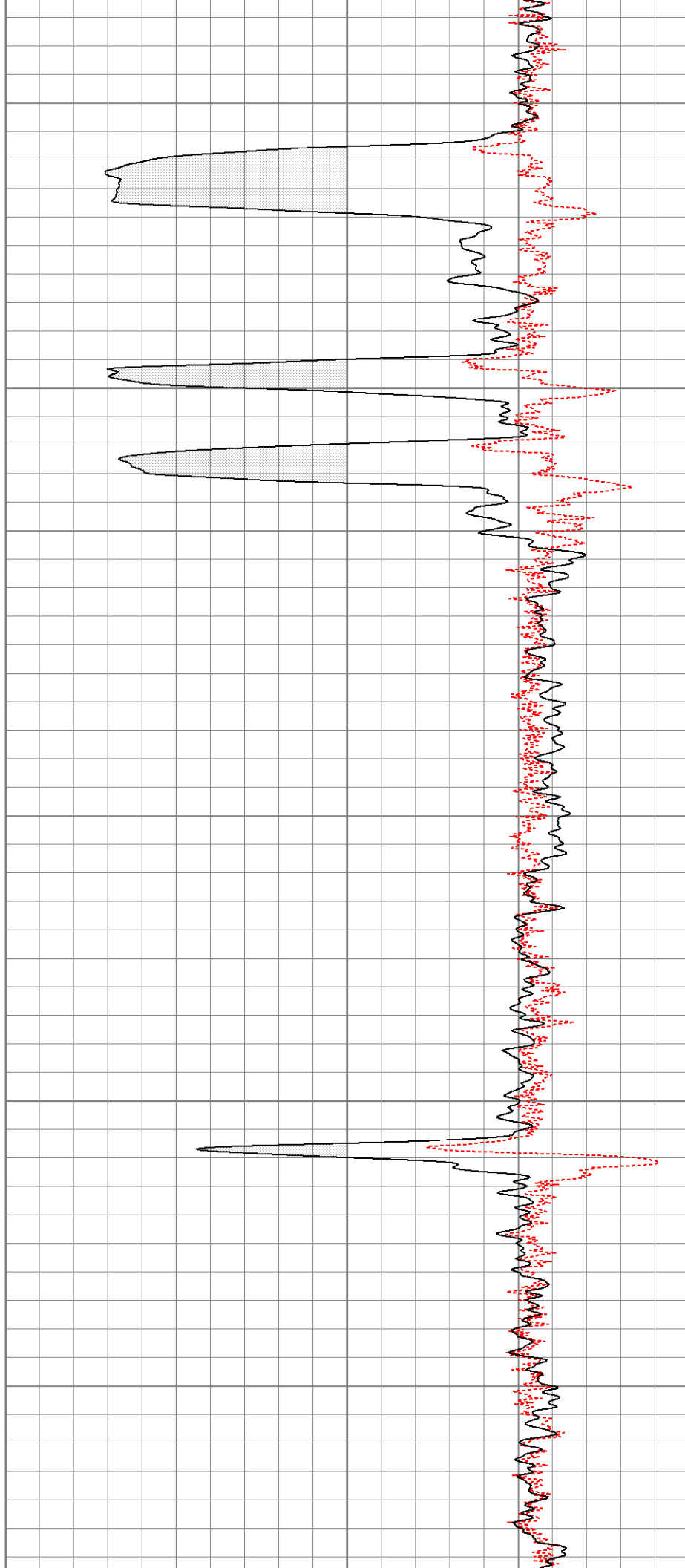
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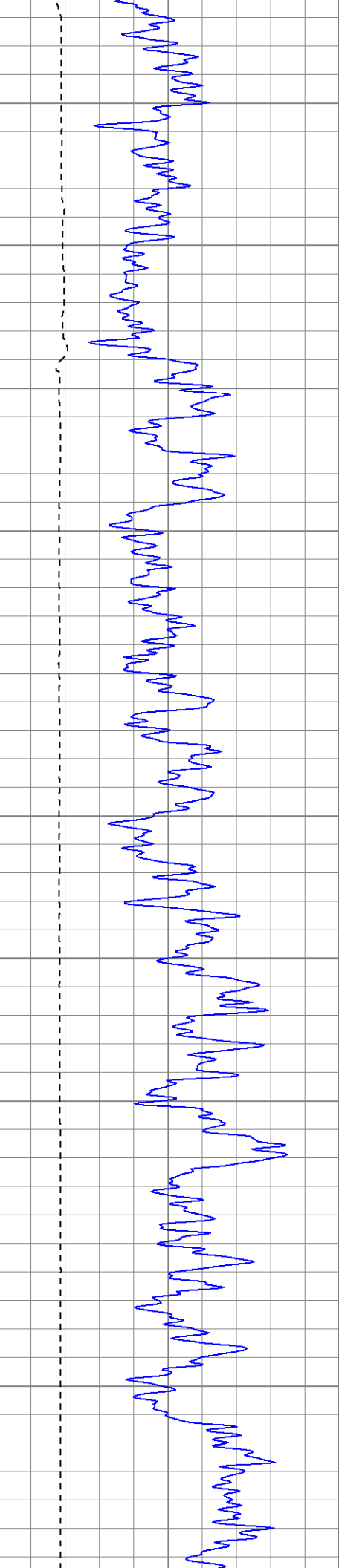




1850

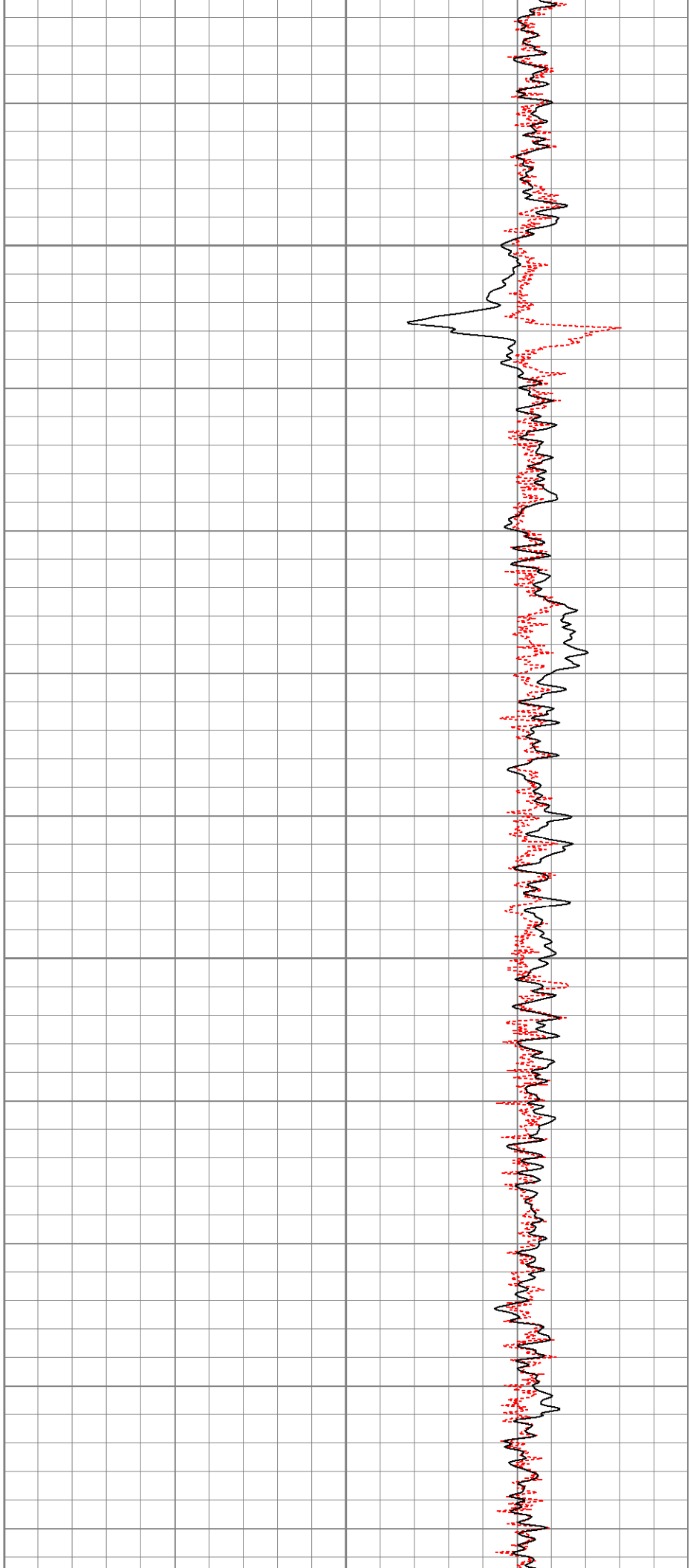
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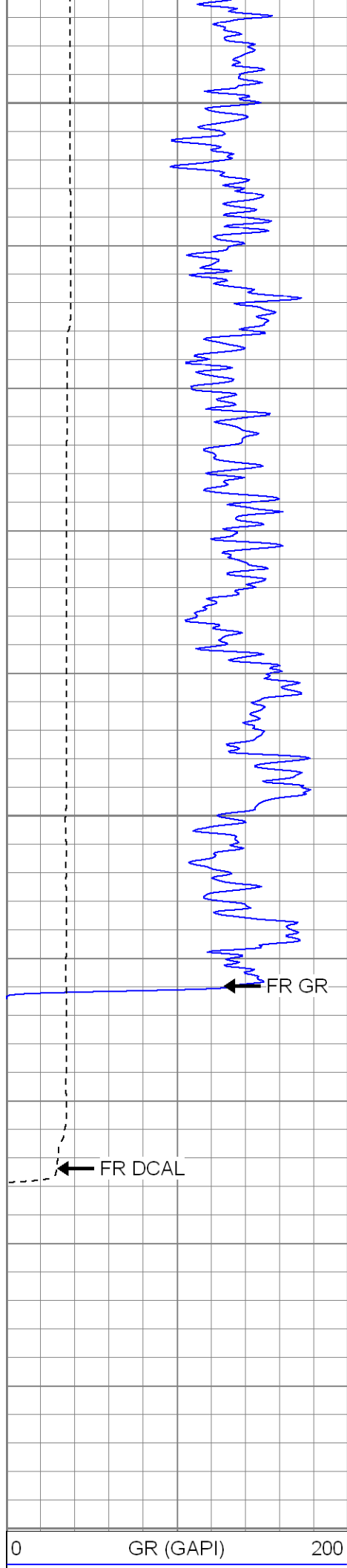




1950

2000

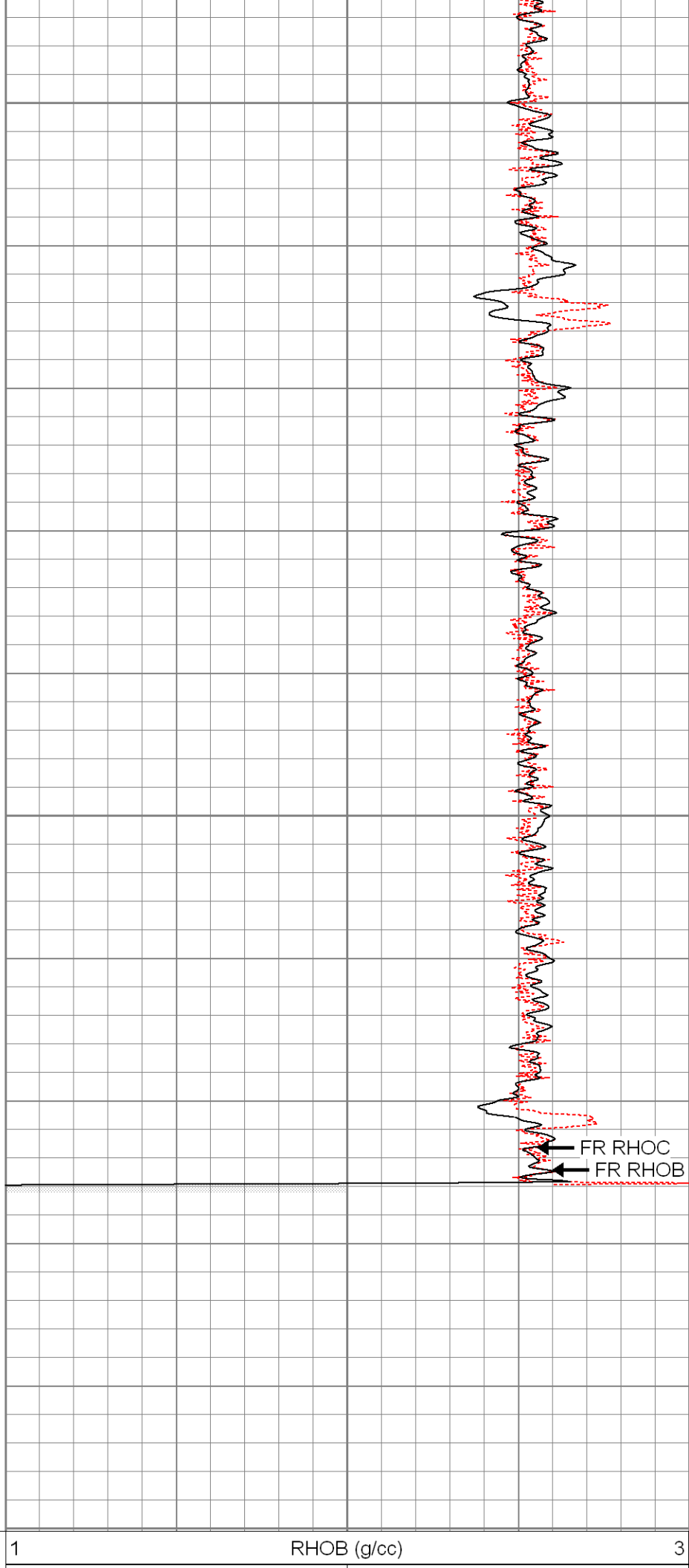




2050

2100

2150



3

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

Database File:		xtoge3304.db			
Dataset Pathname:		pass1			
Dataset Creation:		Thu Jul 03 11:27:21 2008 by Log Open-Cased 070814			

Dual Induction Calibration Report					
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Serial-Model:		5375-G			
Surface Cal Performed:		Thu Jun 19 14:00:16 2008			
Downhole Cal Performed:		Thu Jun 19 14:11:38 2008			

Surface Calibration								
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.627	V	0.000	500.000	mmho-m	807.269	-6.223
Medium	0.010	0.749	V	0.000	550.000	mmho-m	744.131	-7.221
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.008	0.628	V	0.000	500.000	mmho-m	806.482	-6.237
Medium	0.010	0.749	V	0.000	550.000	mmho-m	744.204	-7.127

Downhole Calibration								
Readings			References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.256	500.305	mmho-m	0.020	500.507	mmho-m	1.001	-0.237
Medium	0.259	549.900	mmho-m	-0.095	549.850	mmho-m	1.001	-0.354
Shallow	2.515	0.018	V	500.000	2.000	Ohm-m	150.000	-12.000

Compensated Density Calibration Report					
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Serial-Model:		901-2.75POH			
Source / Verifier:		/			
Master Calibration Performed:		Fri Jun 13 13:34:55 2008			

Master Calibration					
Density			Far Detector		Near Detector
Magnesium	1.710	g/cc	1044.92	534.39	cps
Aluminum	2.590	g/cc	190.27	268.70	cps
Spine Angle = 68.02			Density/Spine Ratio = 0.479		
Size			Reading		
Small Ring	8.00	in	2.48	V	
Large Ring	17.00	in	4.28	V	

Neutron Calibration Report					
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Serial Number:		803			
Tool Model:		2.75POH			
Performed:		Fri Jun 13 12:44:22 2008			

Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps
Gamma Ray Calibration Report		
Serial Number:	804	
Tool Model:	2.75POH	
Performed:	Fri Jun 13 13:37:58 2008	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	37.81		None	0.75	1.50	5.00
			GR-2.75POH (804) Probe	3.73	2.75	43.00
NEU	32.27		NEU-2.75POH (803) Probe Epithermal	4.75	2.75	58.00
LSD DCAL SSD	24.44		CDL-2.75POH (901) Probe	8.43	2.75	106.00
	24.16					
	23.91		Probe	0.89	3.50	20.00
CILD SP	10.60		DIL-G (5375) Gearhart	20.80	4.00	345.00
	10.60					
CILM	6.89					

