



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 30-05
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09205 00

1614' FNL & 876' FWL

DIL

SEC 30 TWP 33S RGE 67W

Permanent Datum	Ground Level	Elevation	7307'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B. -----
D.F. -----
G.L. 7307'

Date 7-29-07

Run Number	One		
Depth Driller	1950'		
Depth Logger	1934'		
Bottom Logged Interval	1932'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 495'		
Casing Logger	498'		
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	10:15 A.M.		
Time Logger on Bottom	2:00 P.M.		
Maximum Recorded Temperature	97 DEG F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	M. Norton		
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:
Second Bosque entrance four miles after Weston,
right on Apache Canyon, fourth drive thru location.

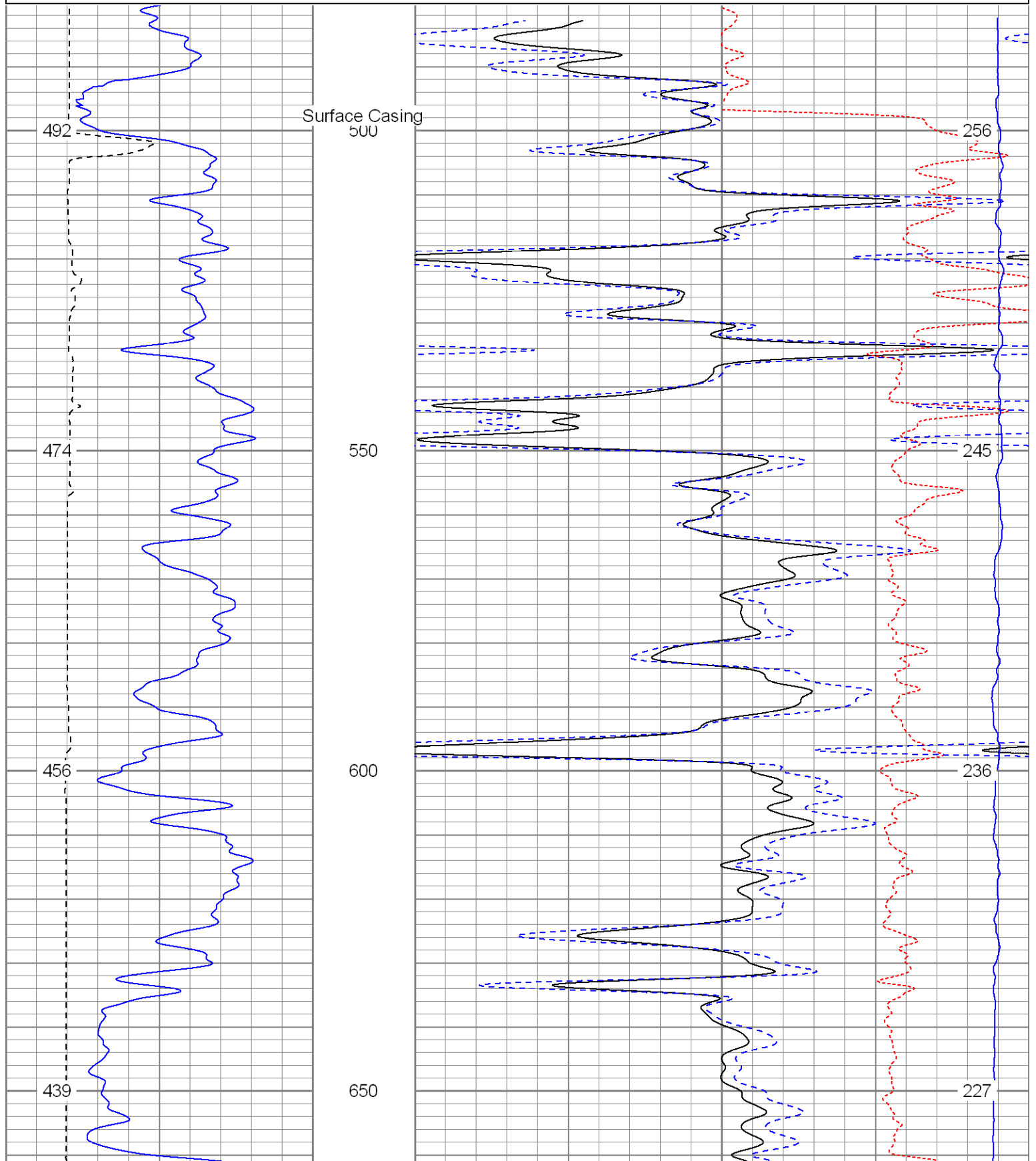


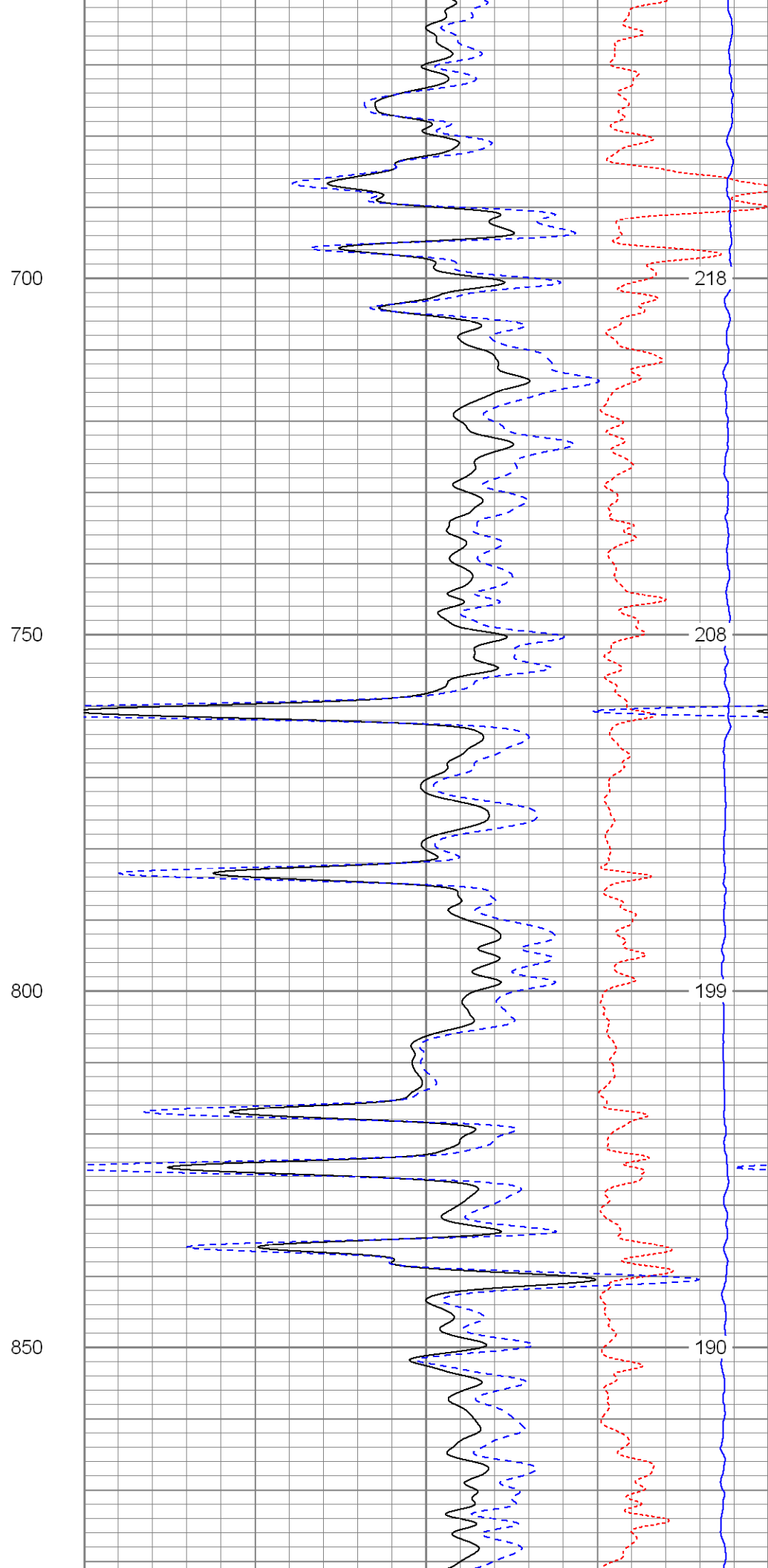
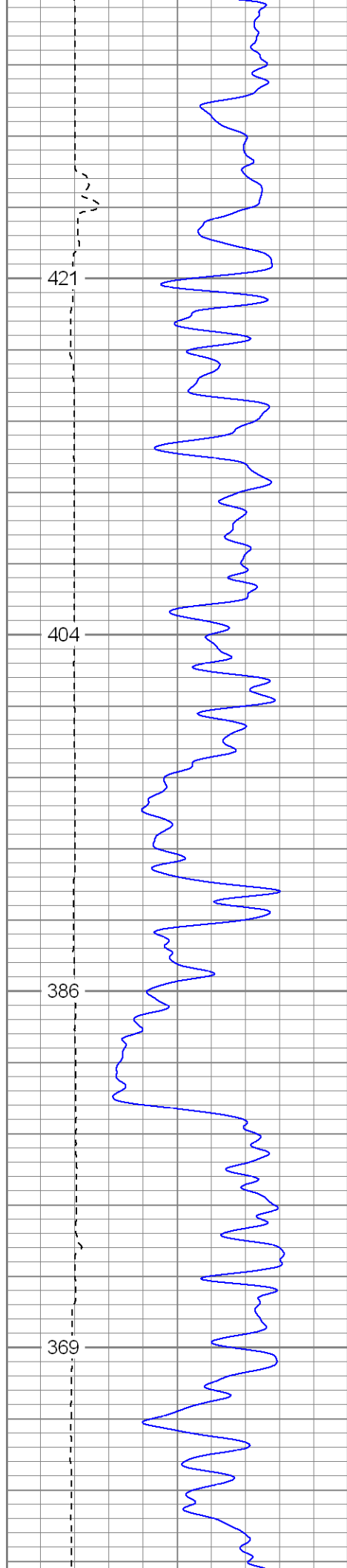
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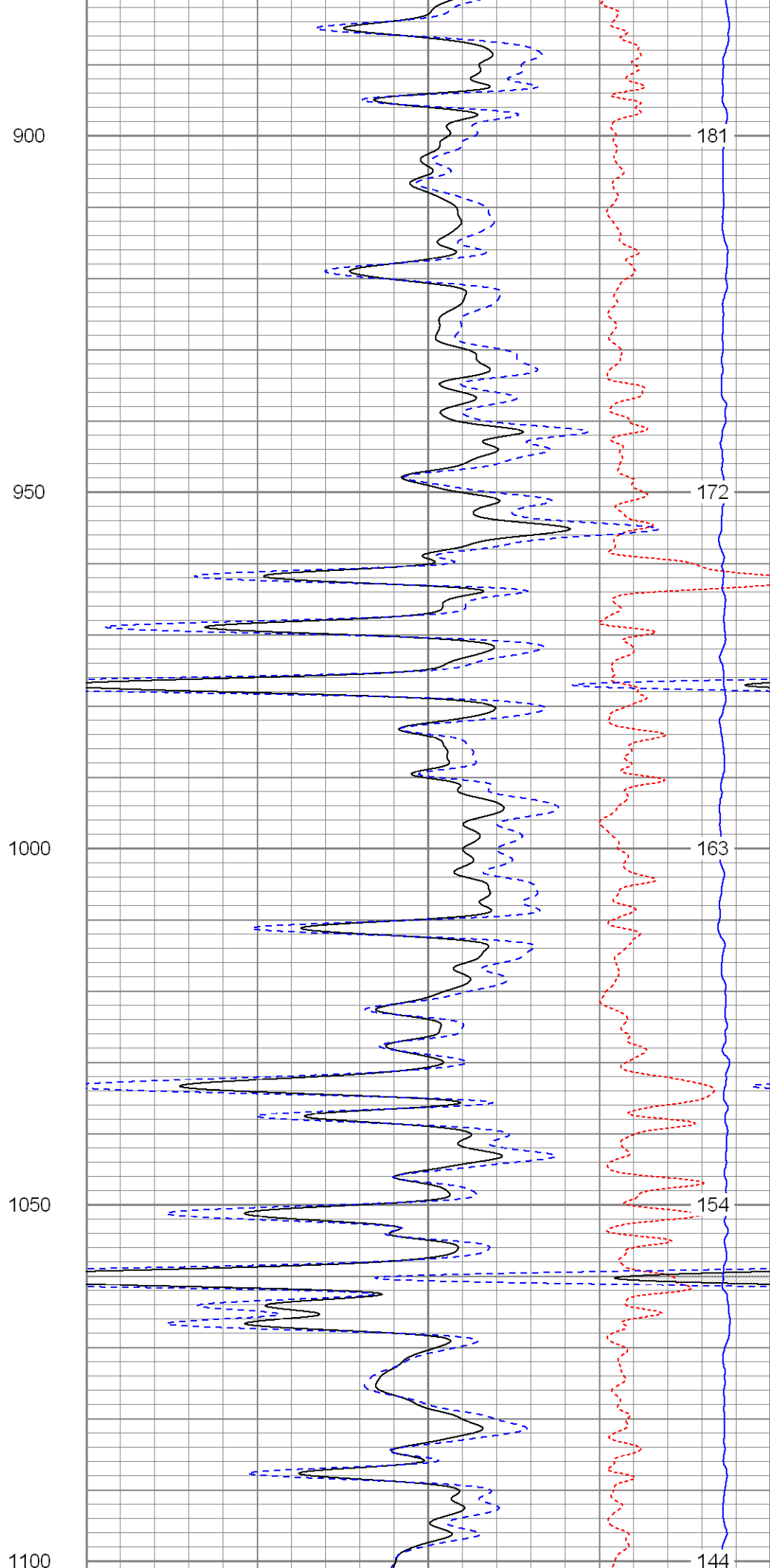
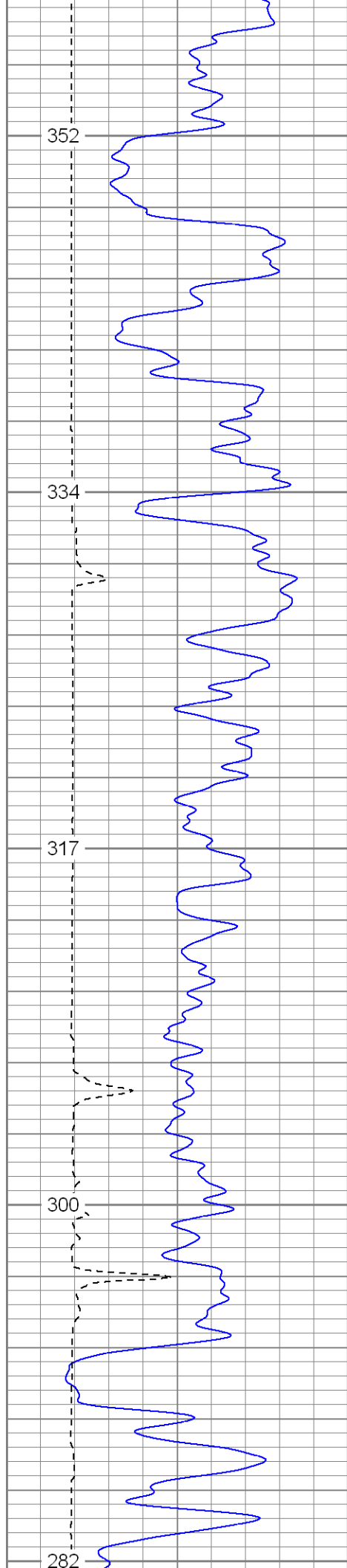
Main Pass

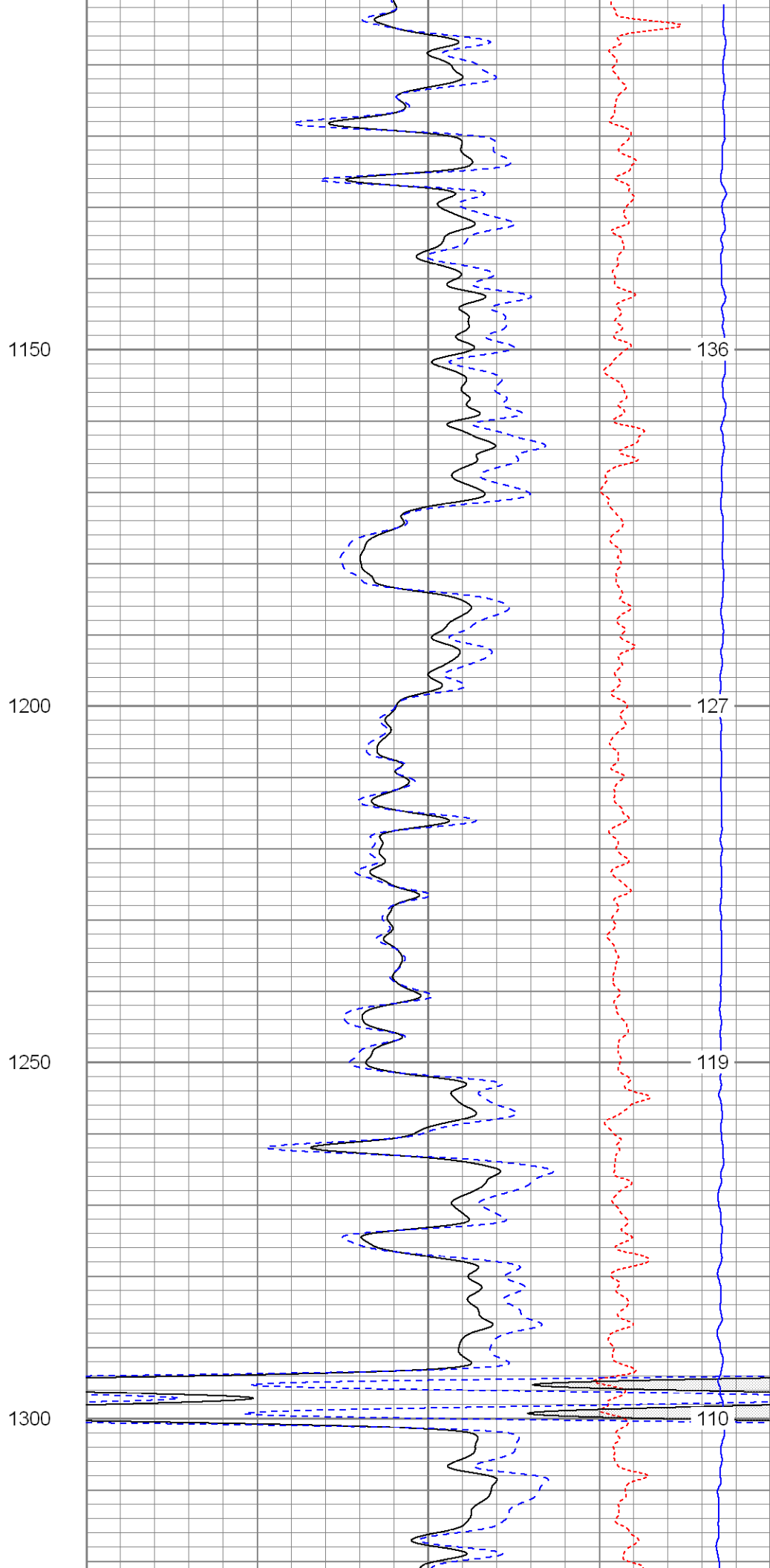
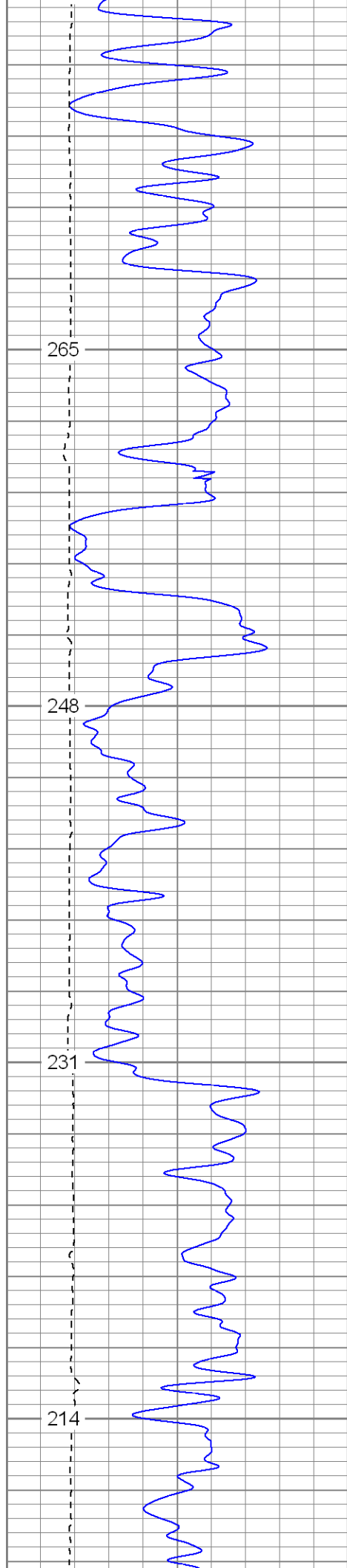
Database File: xtoge3005.db
Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Sun Jul 29 15:16:51 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

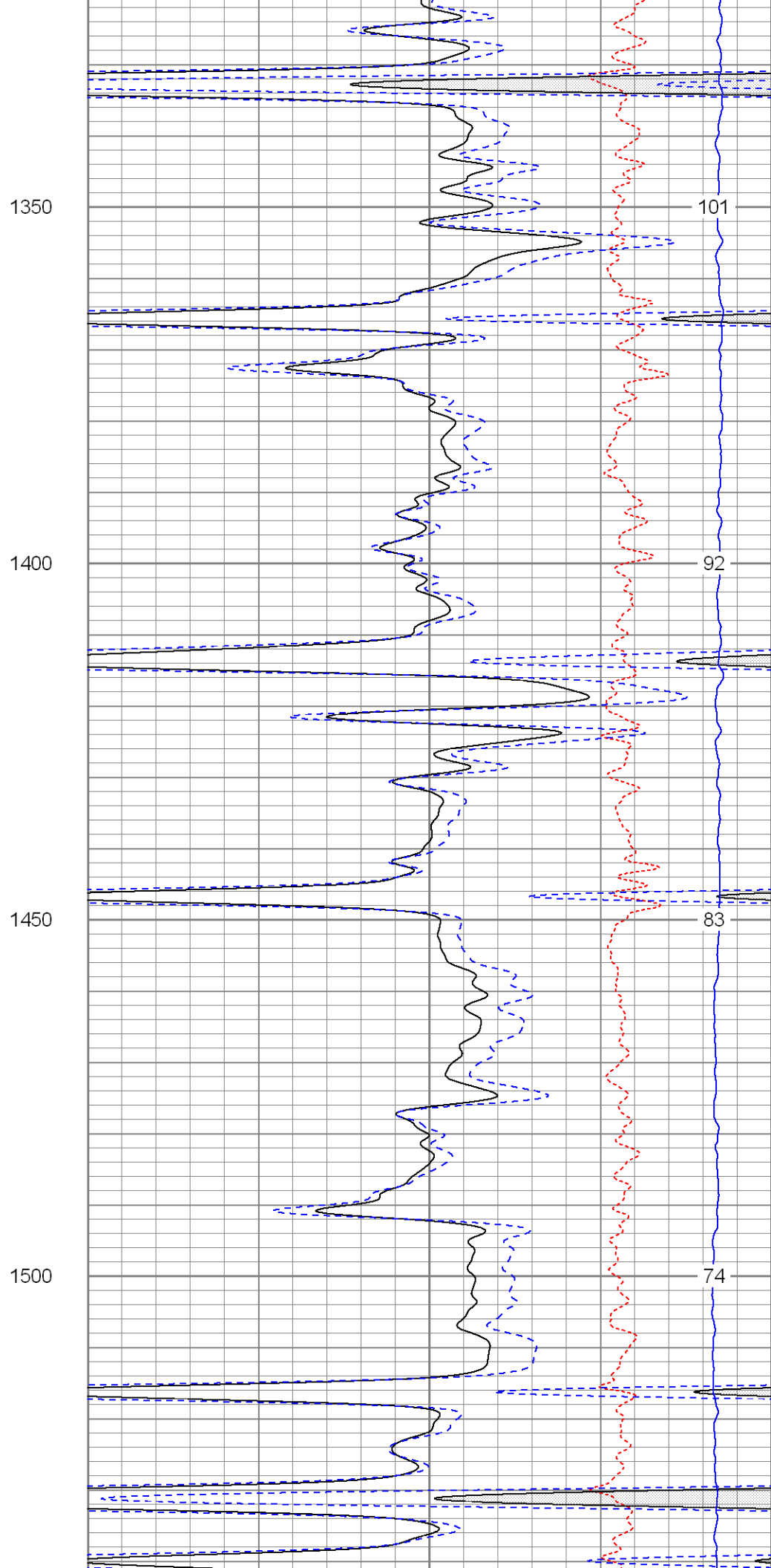
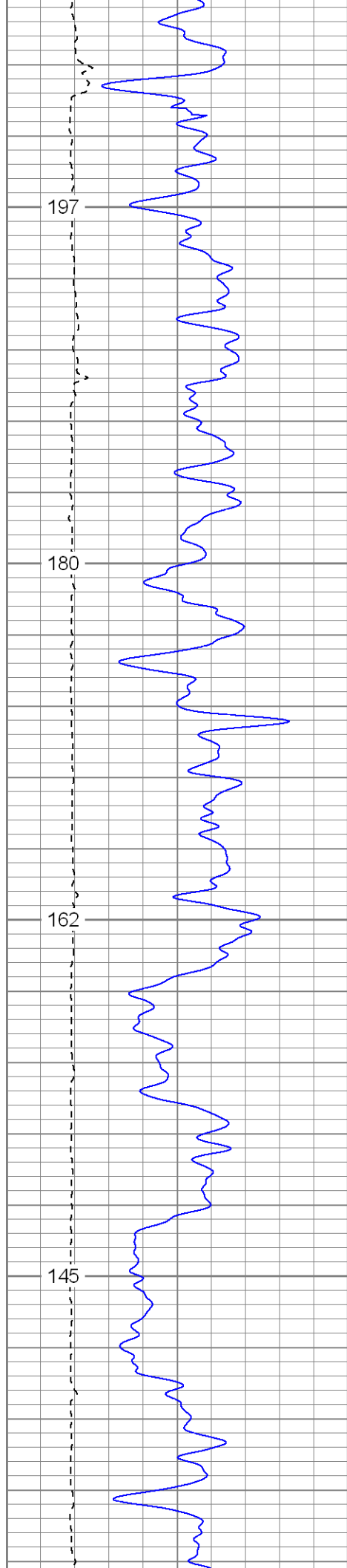
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5 RHOC (g/cc) 0.5		
			4000 LTEN (lb) 0		

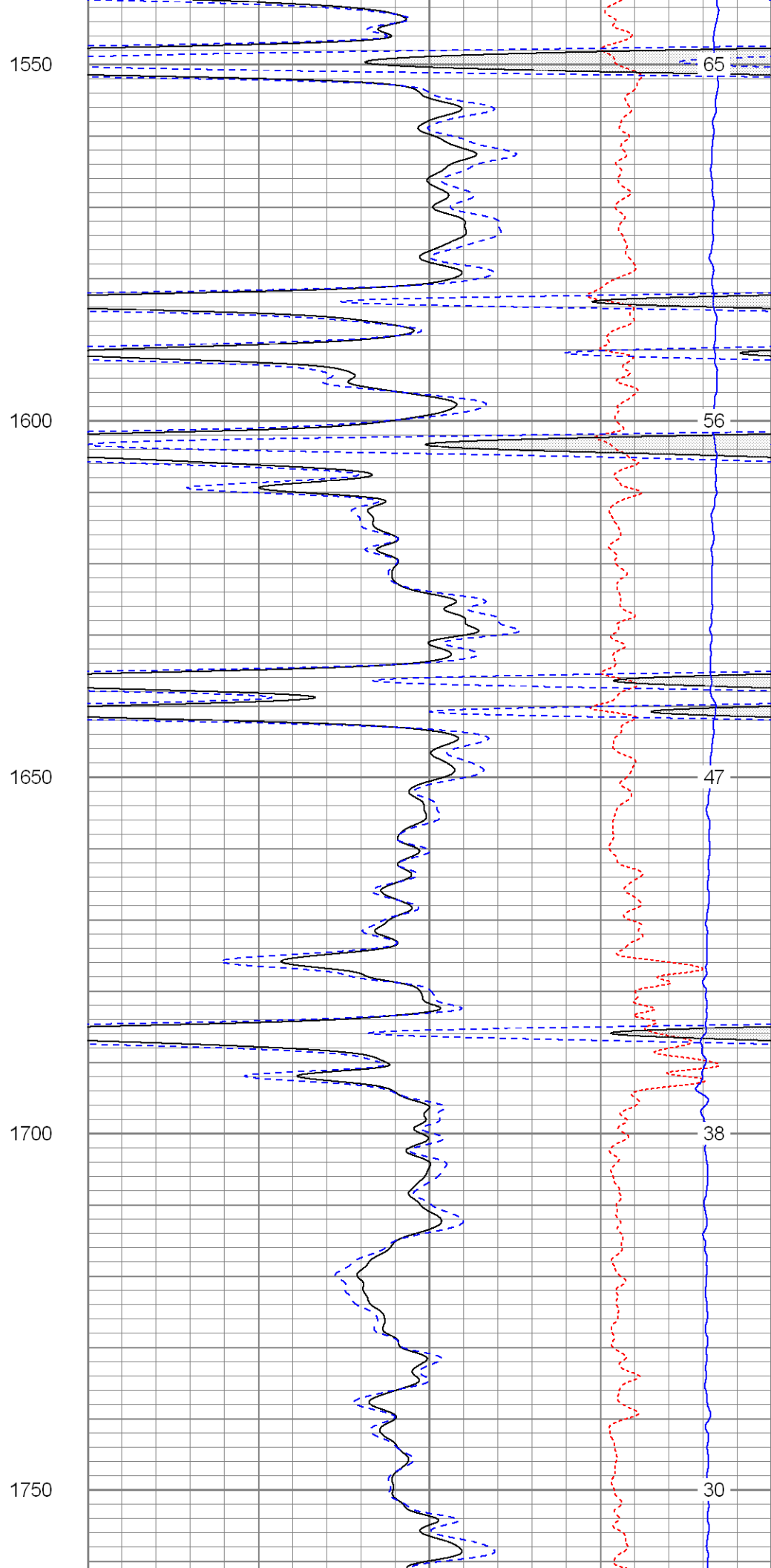
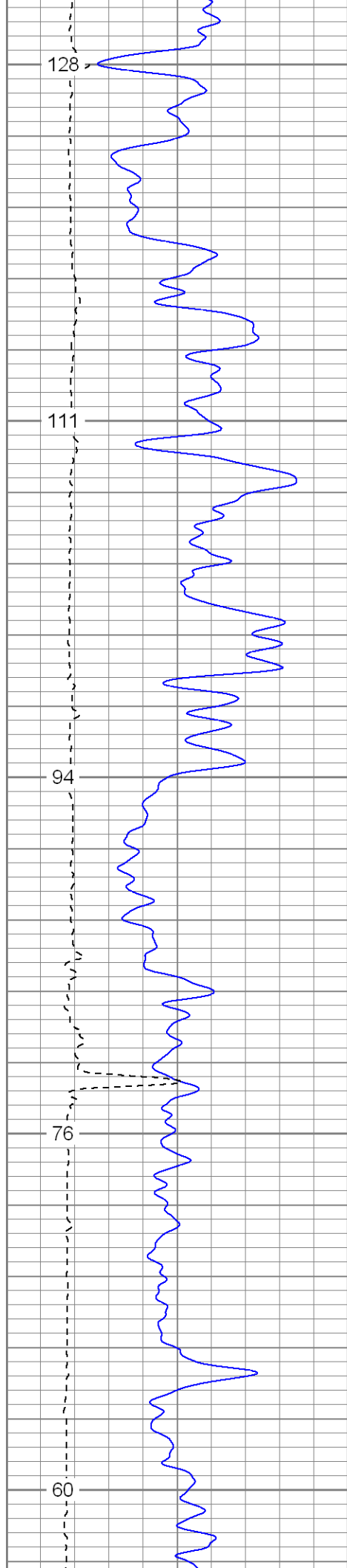


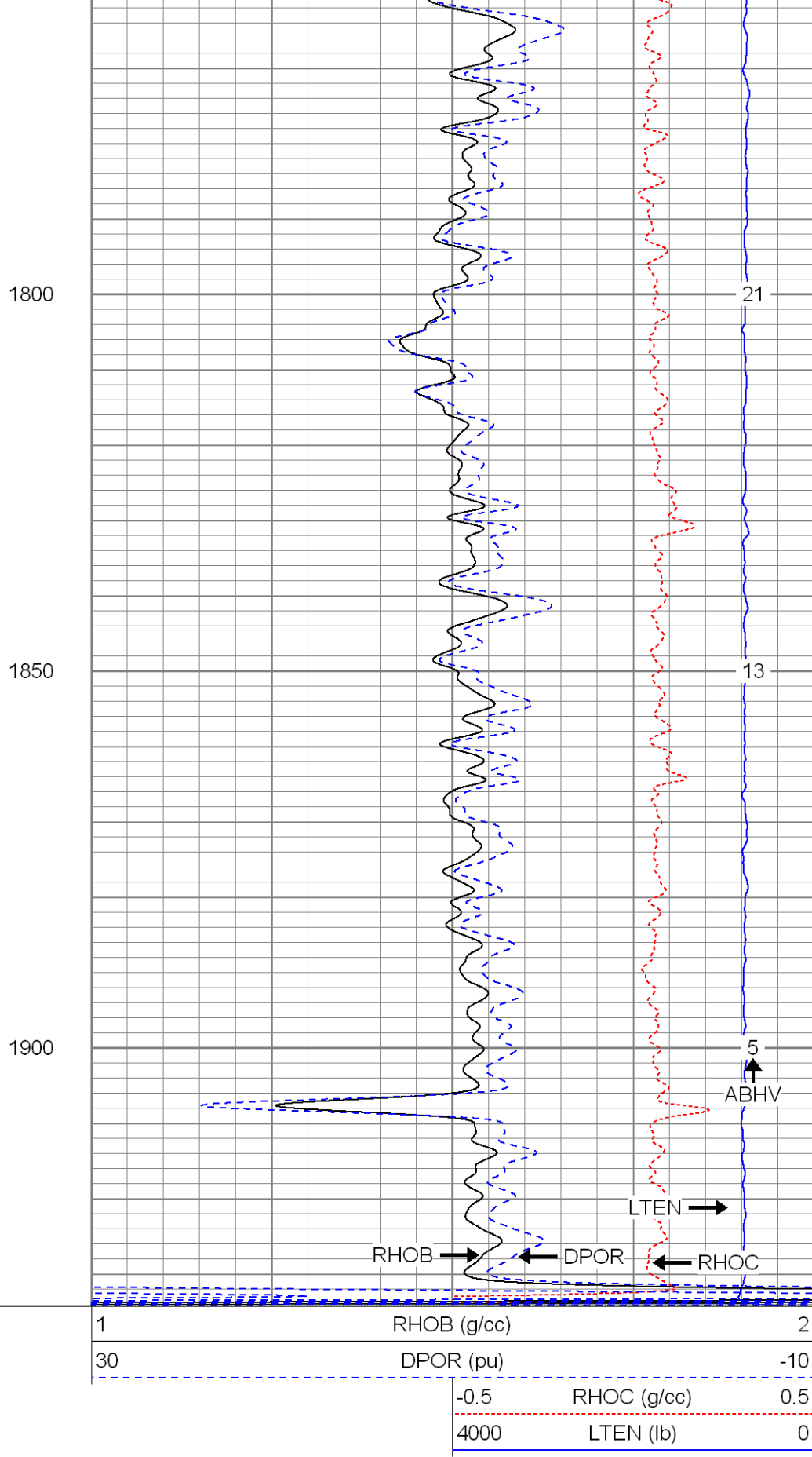
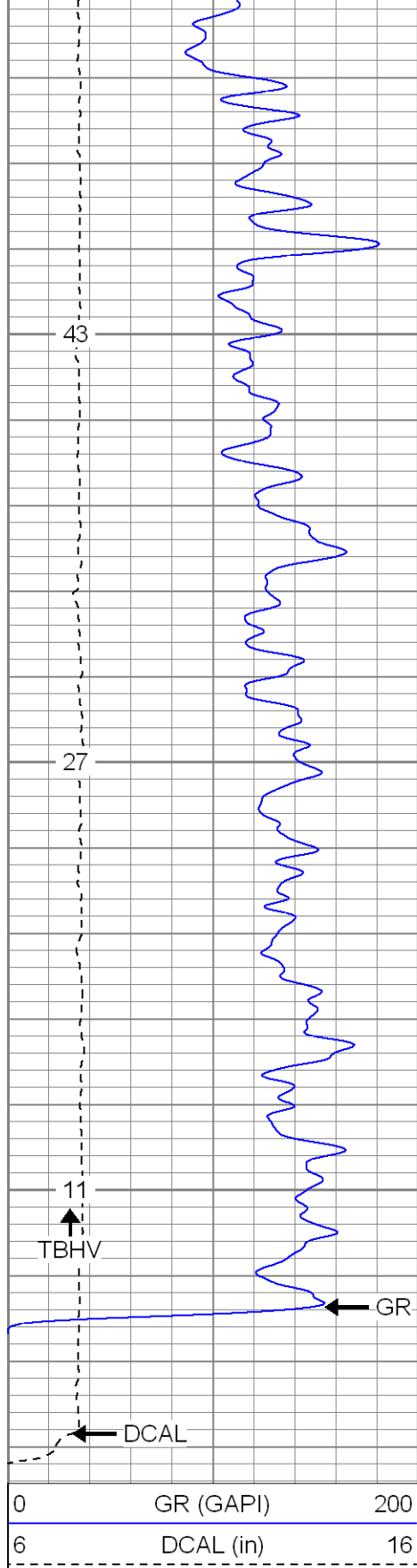










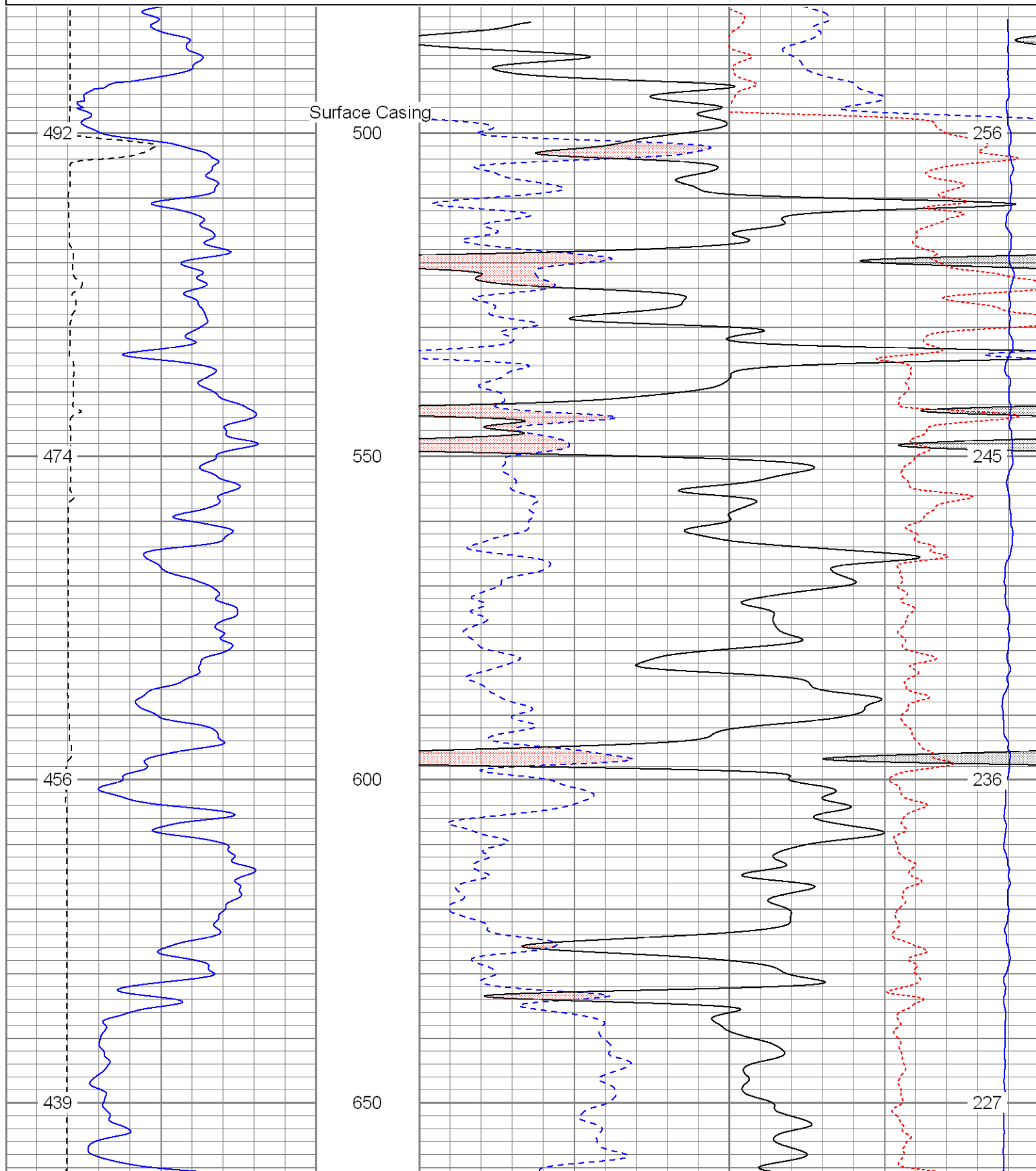


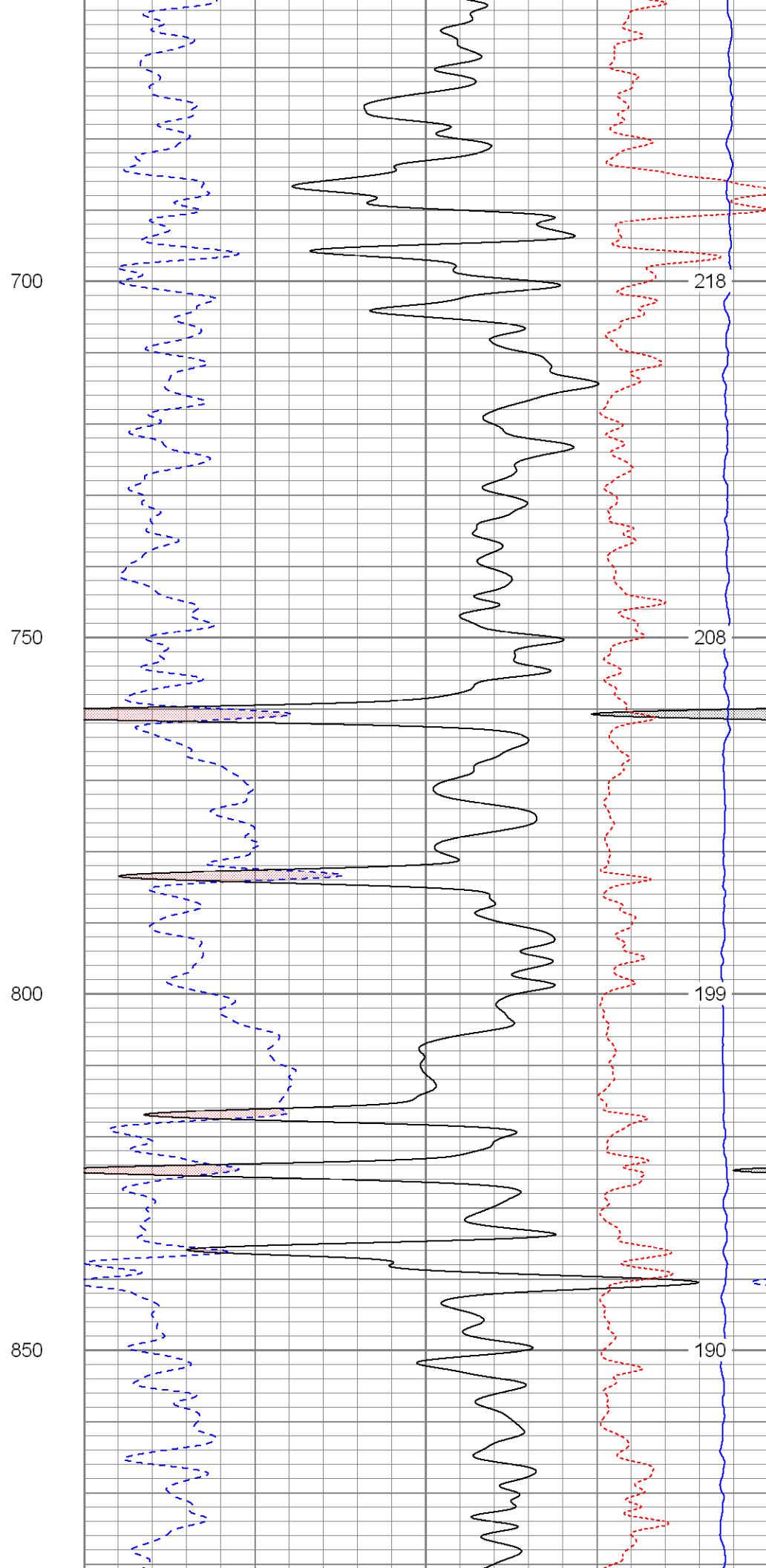
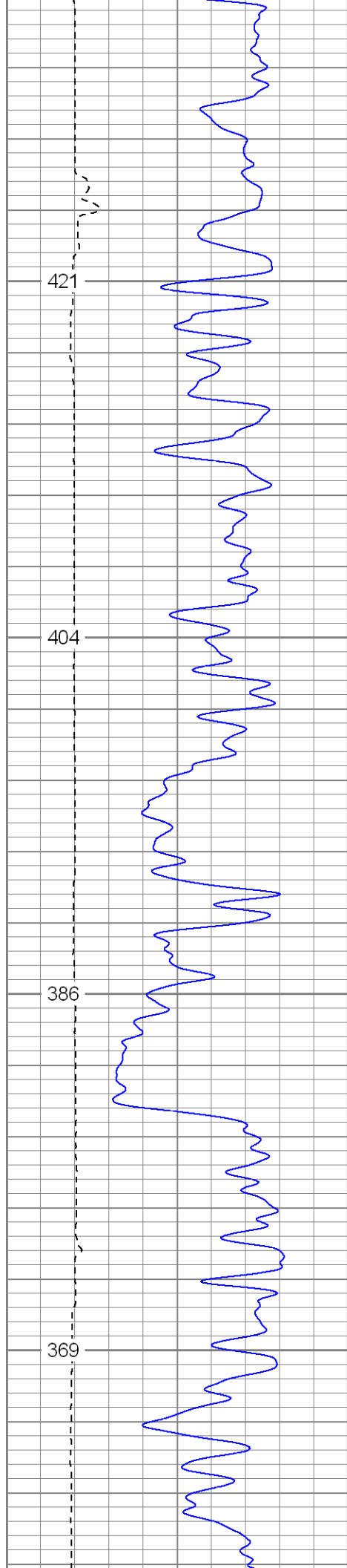
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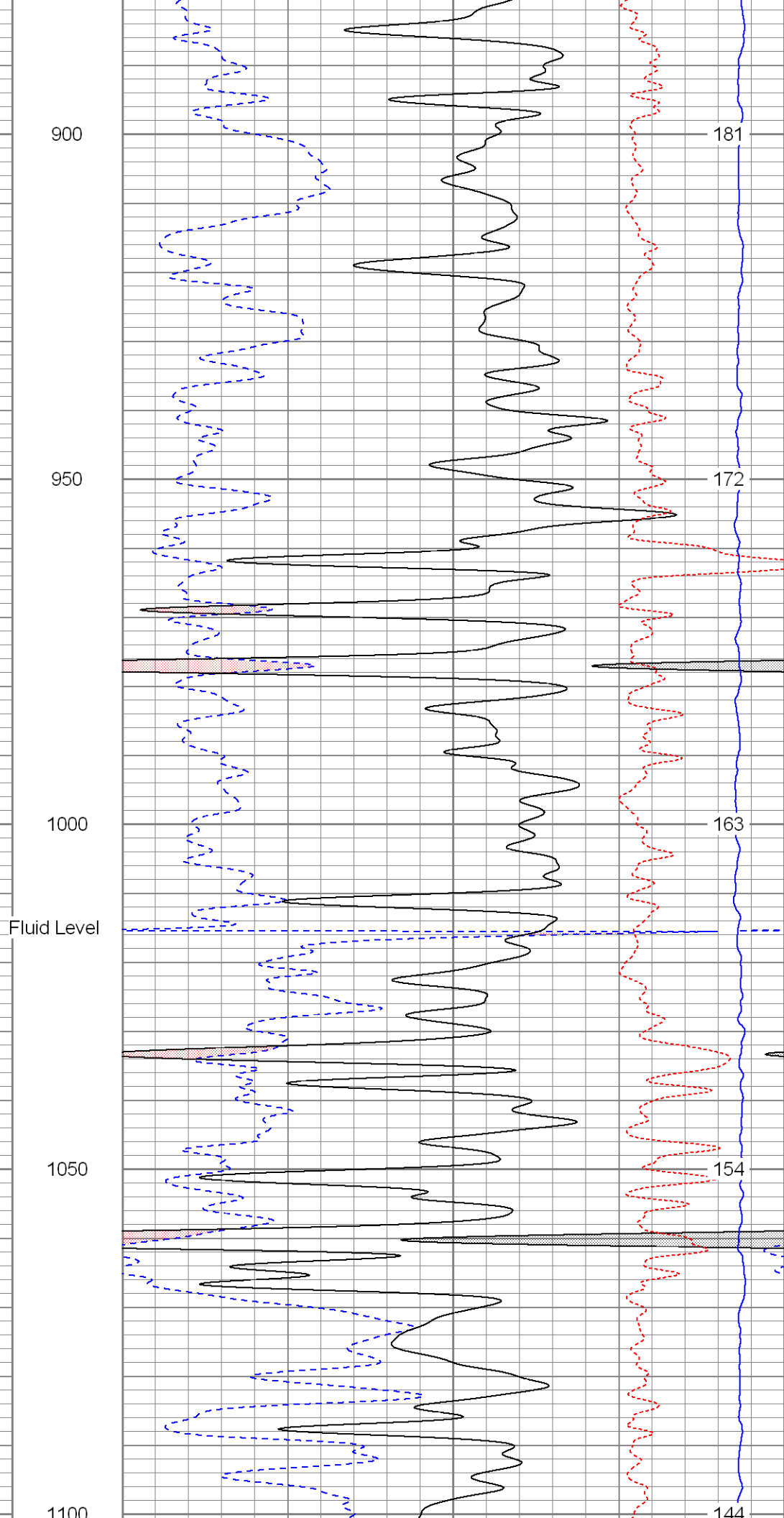
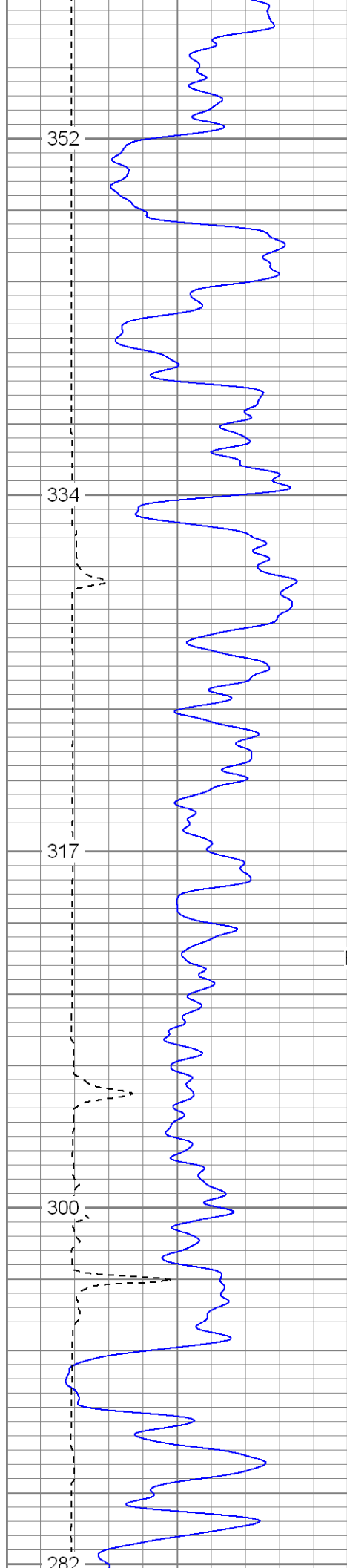
Main Pass

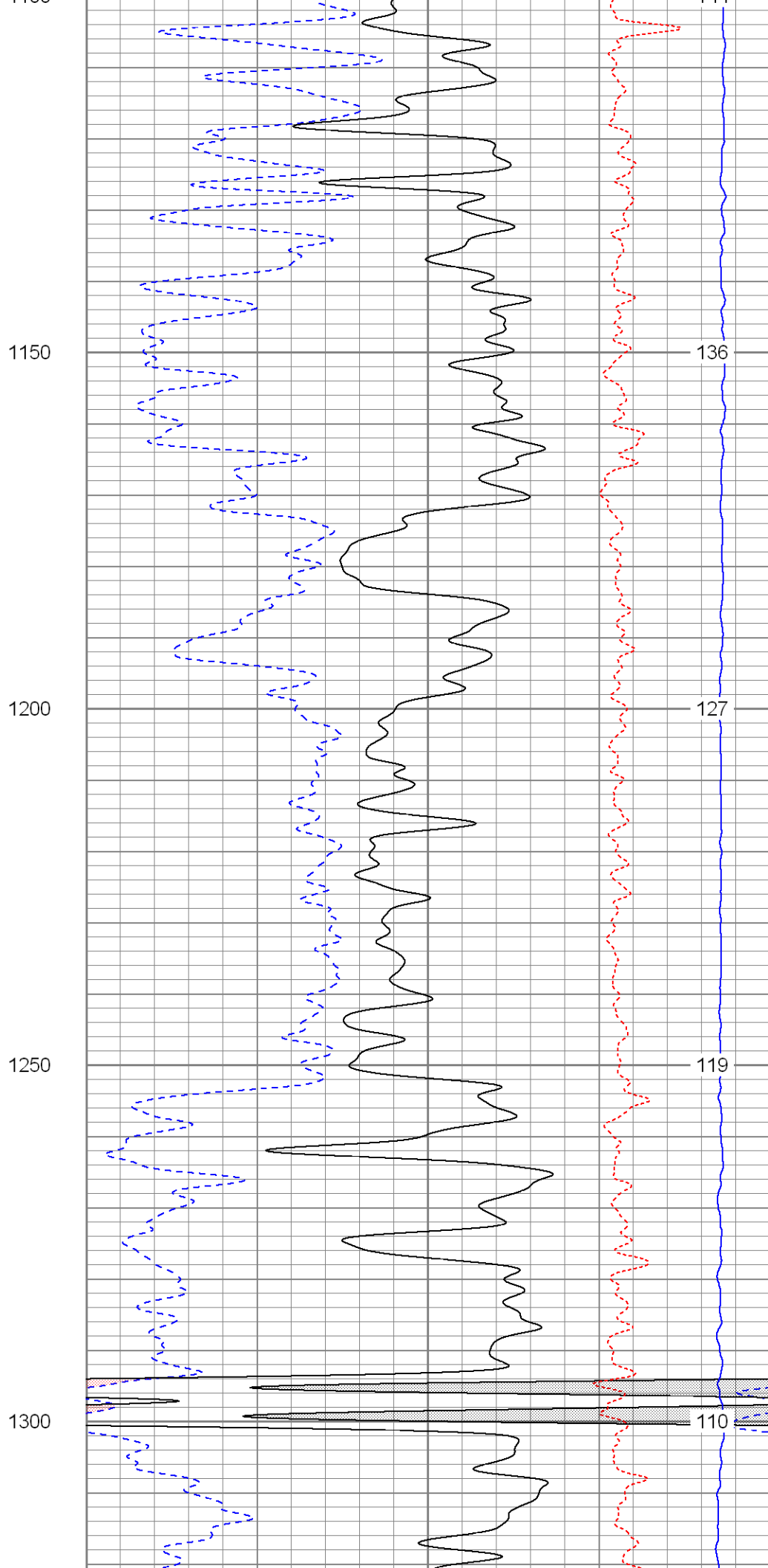
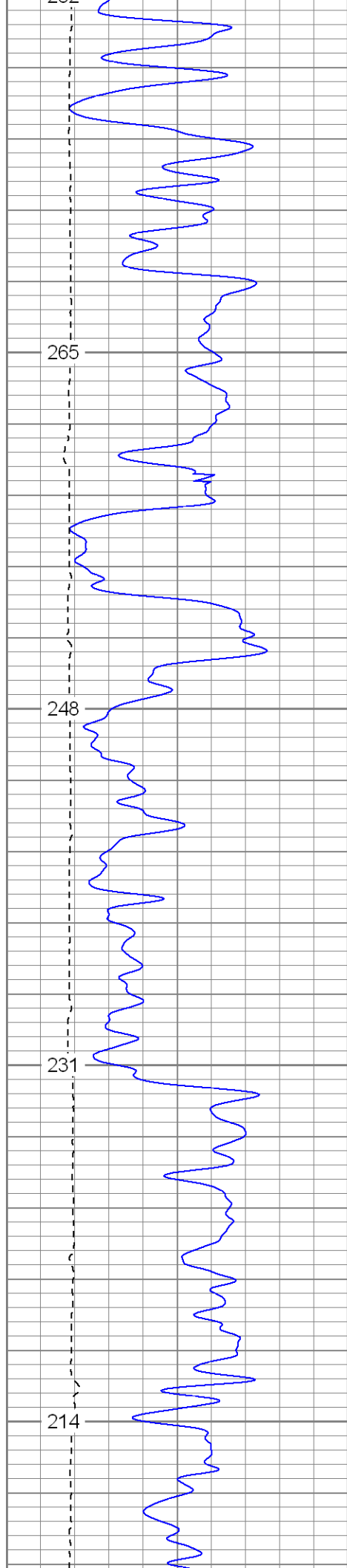
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Dataset Pathname: pass4.1
Presentation Format: cdnl
Dataset Creation: Sun Jul 29 15:16:51 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

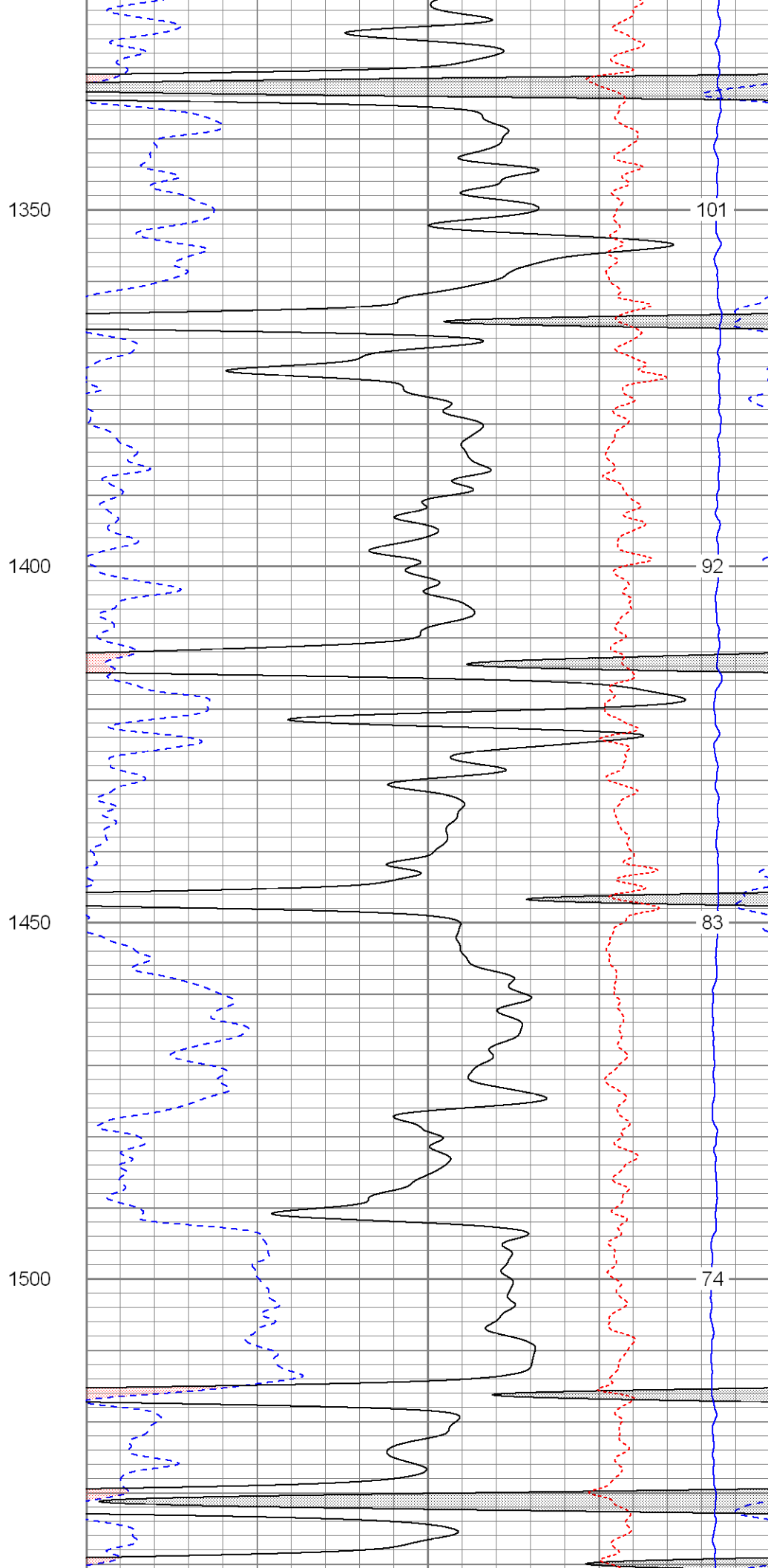
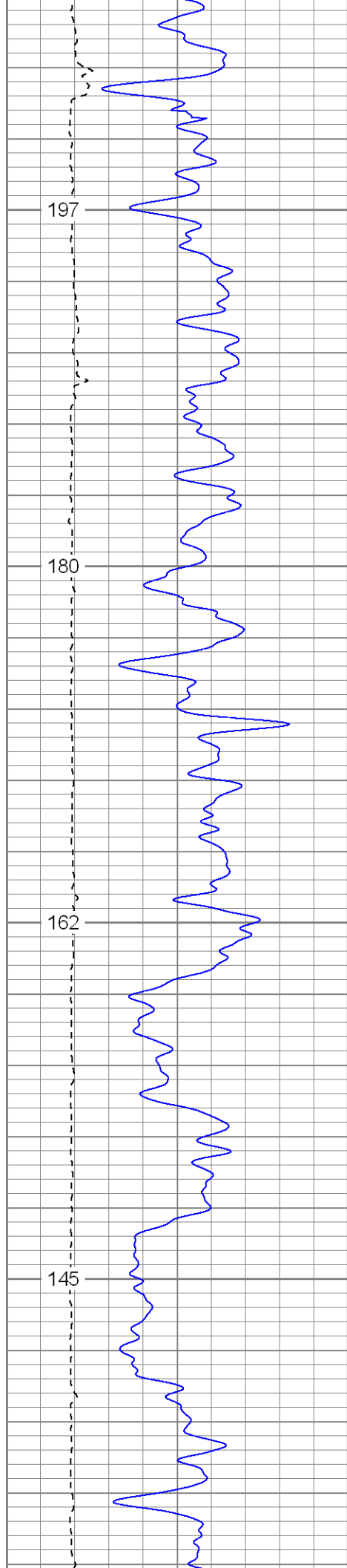
0	GR (GAPI)	200	30	NPOR (pu)	-10	
6	DCAL (in)	16	30	DPOR (pu)	-10	
				-0.5	RHOC (g/cc)	0.5
				4000	LTEN (lb)	0

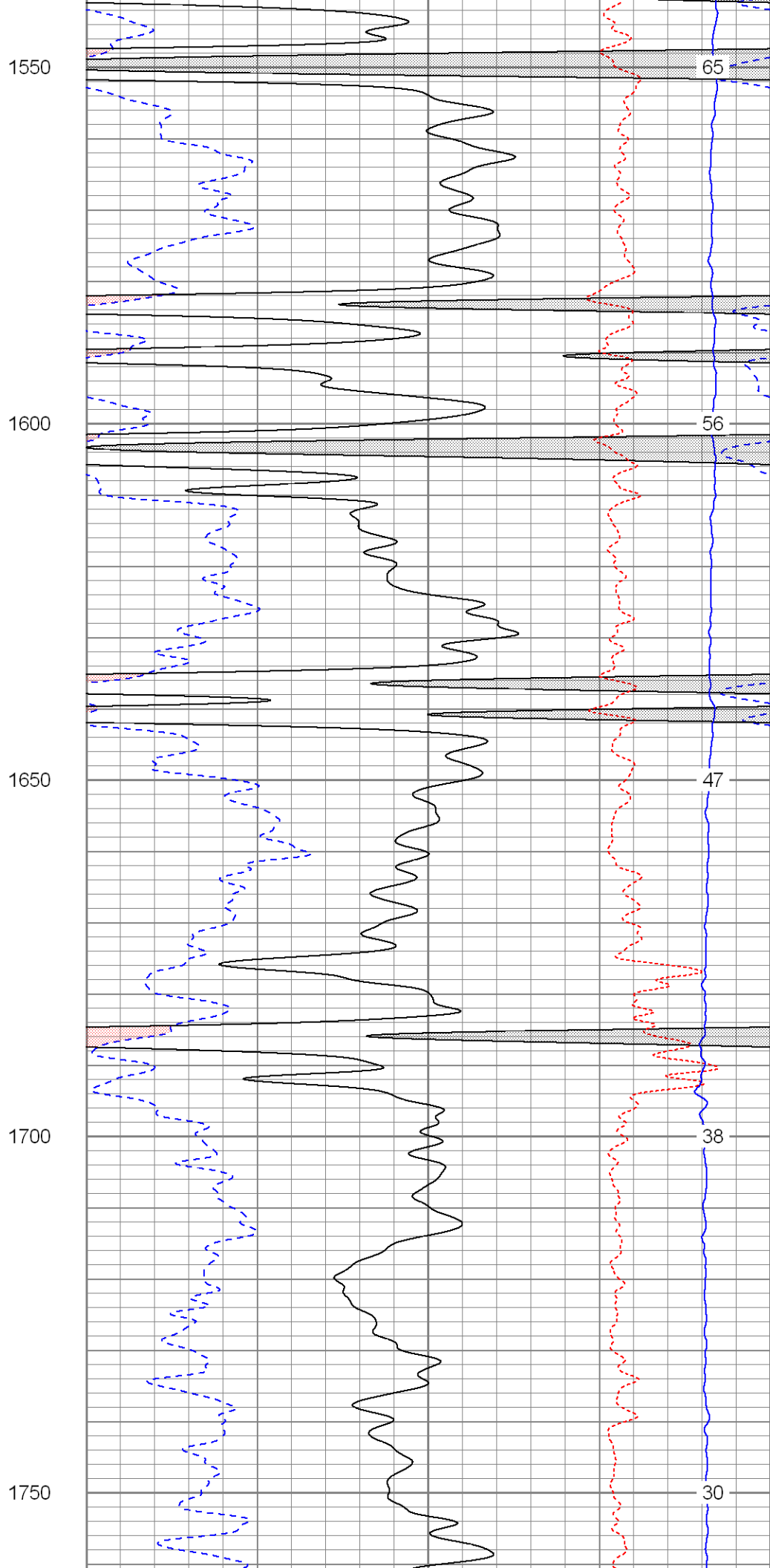
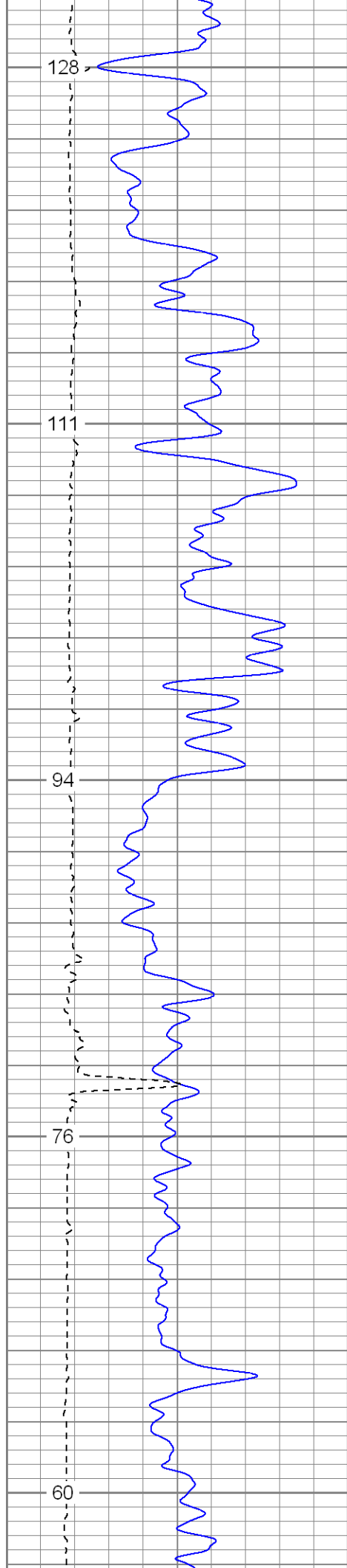


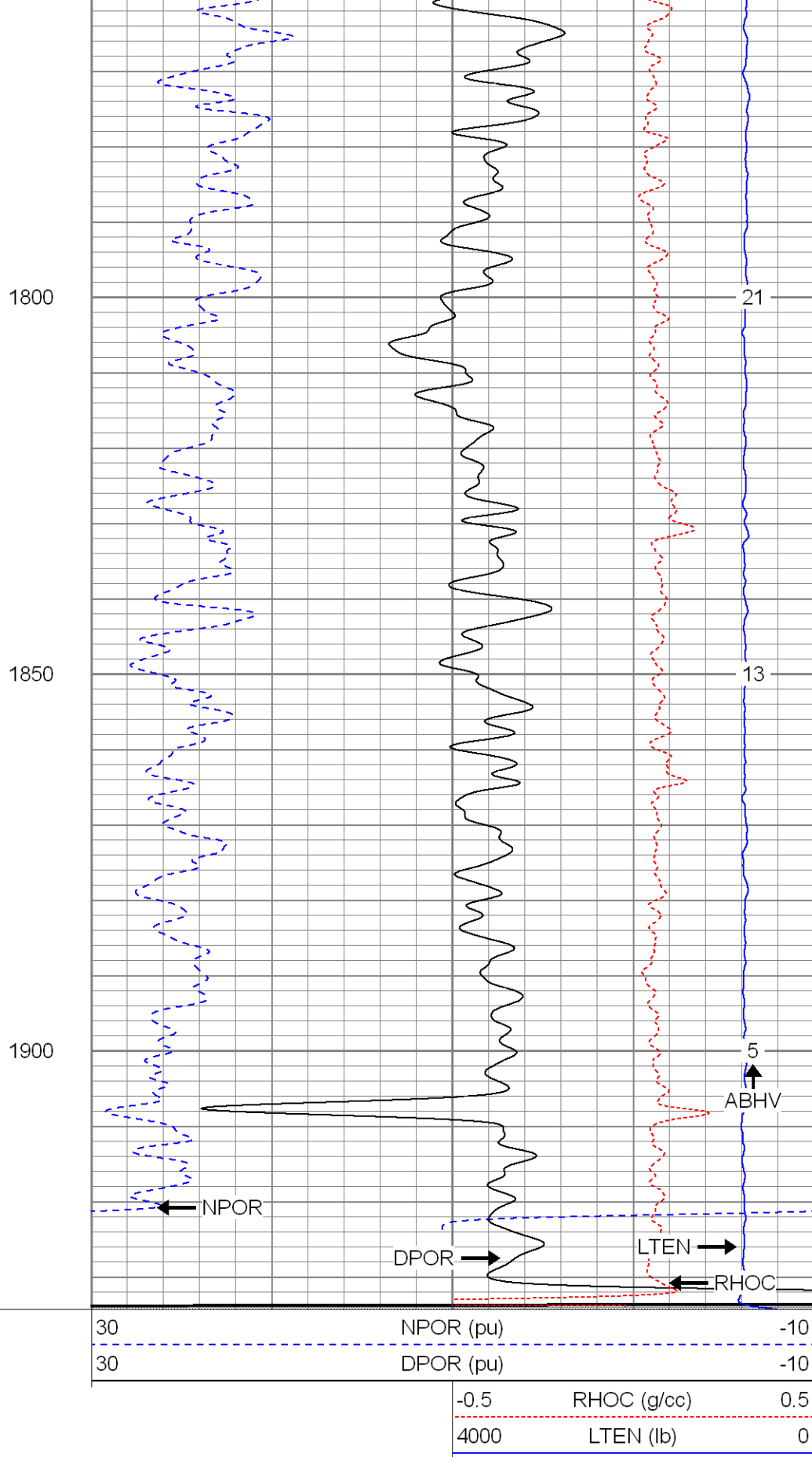
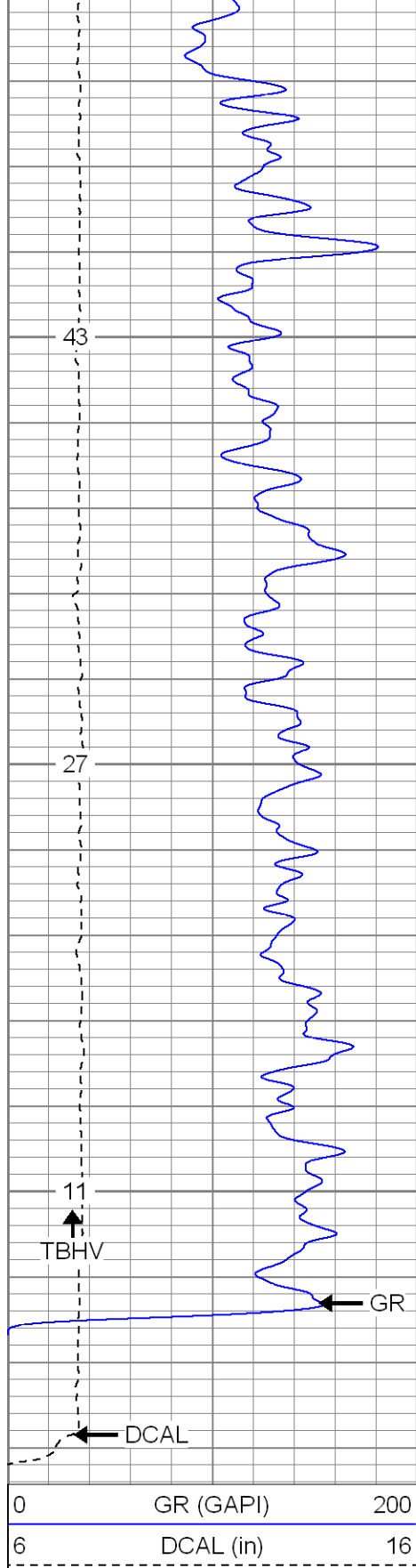








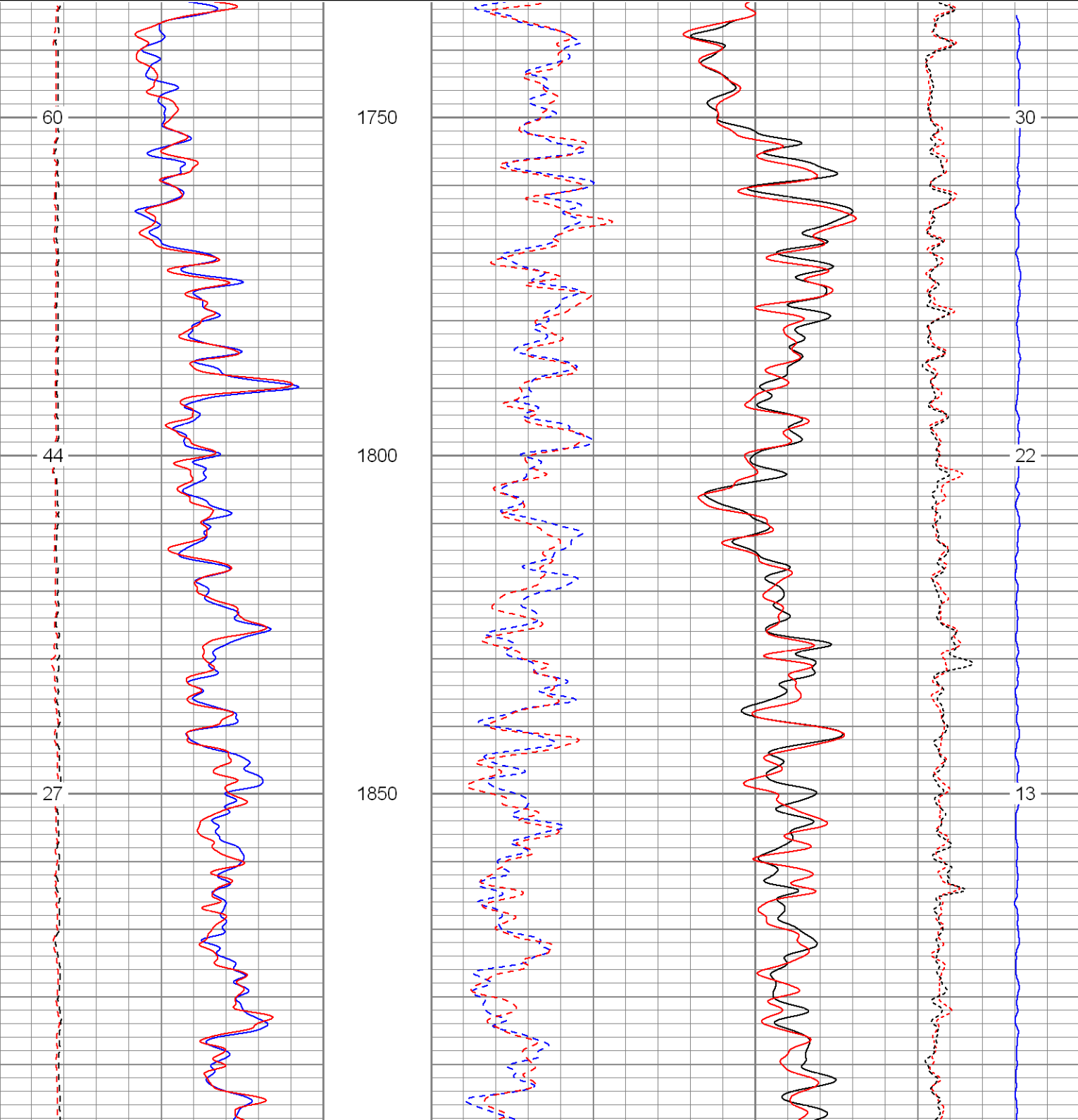


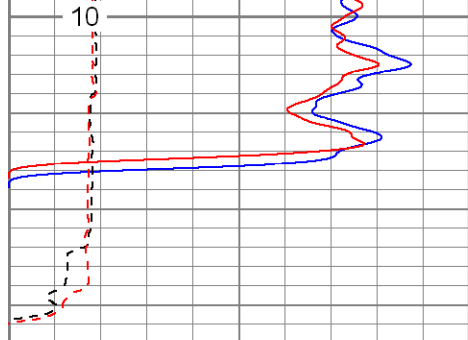


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Repeat Section

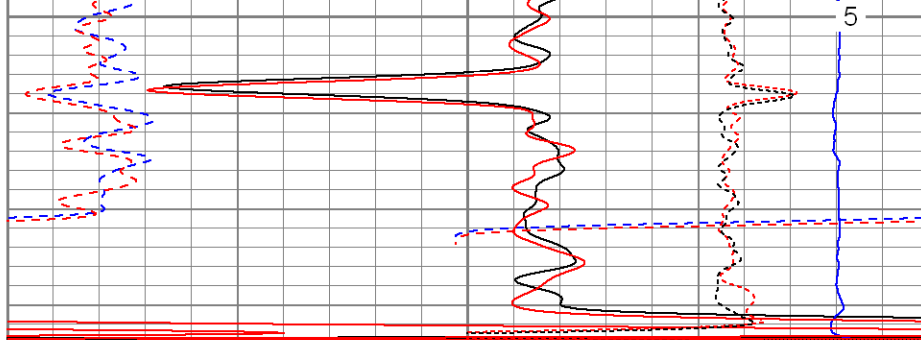
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6	DCAL (in)	16	30	DPOR (pu)	-10
0	GR-repeat (GAPI)	200	30	NPOR-repeat (pu)	-10
6	DCAL-repeat (in)	16	30	DPOR-repeat (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0
			-0.5	RHOC-repeat (g/cc)	0.5





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

1900



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



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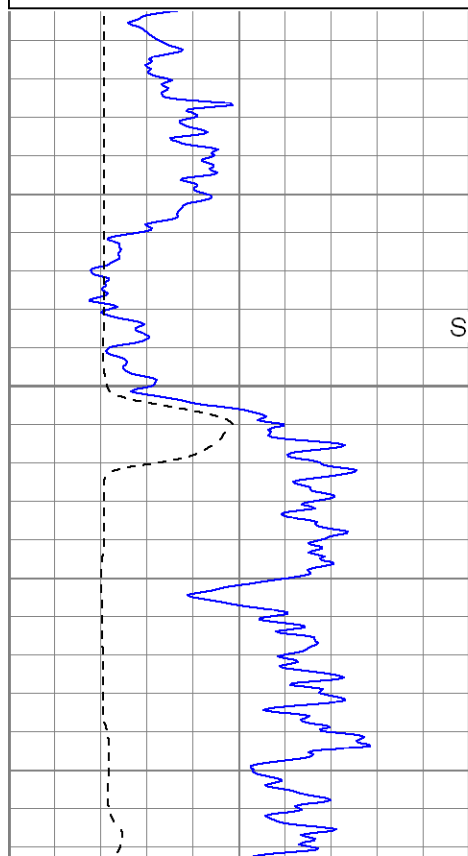
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High Resolution Pass

Database File: xtoge3005.db
Dataset Pathname: pass4.2
Presentation Format: cdlhr
Dataset Creation: Sun Jul 29 15:23:34 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:120

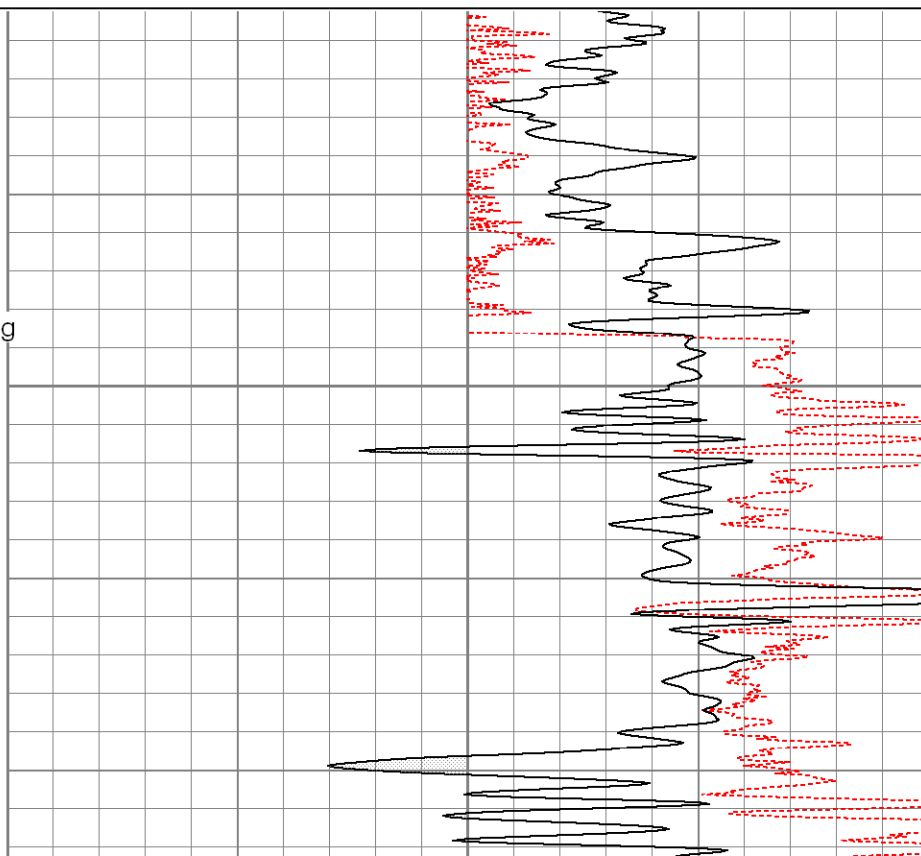
0	GR (GAPI)	200
6	DCAL (in)	16

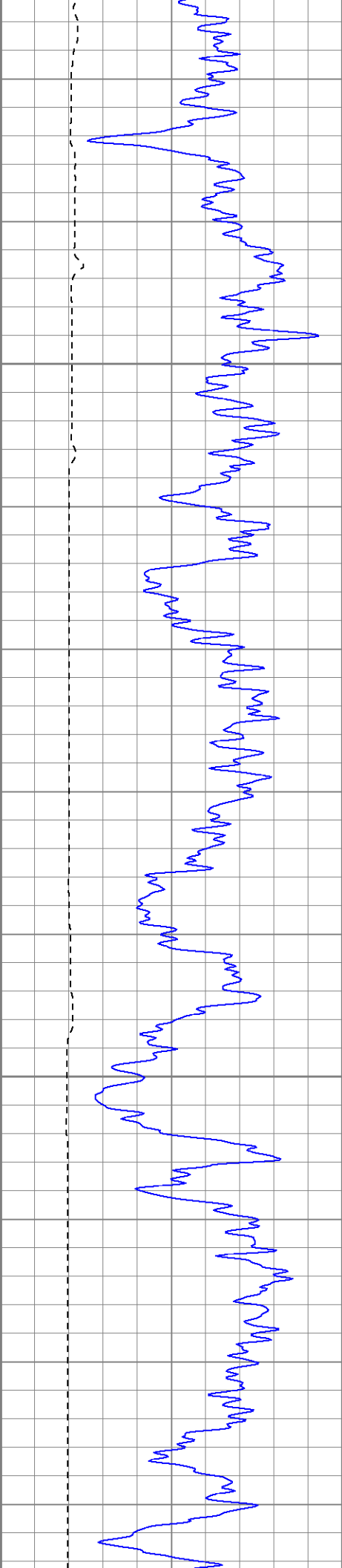
1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5



Surface Casing

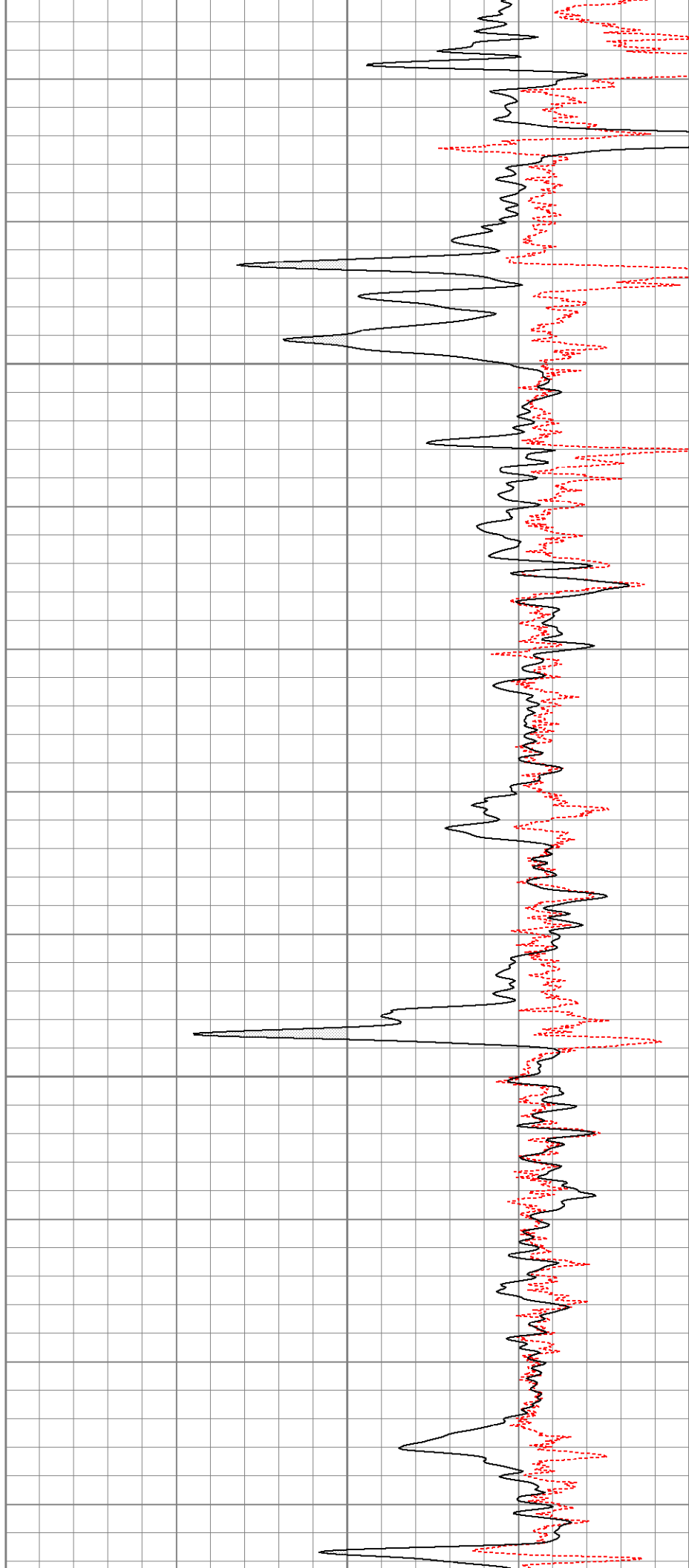
500

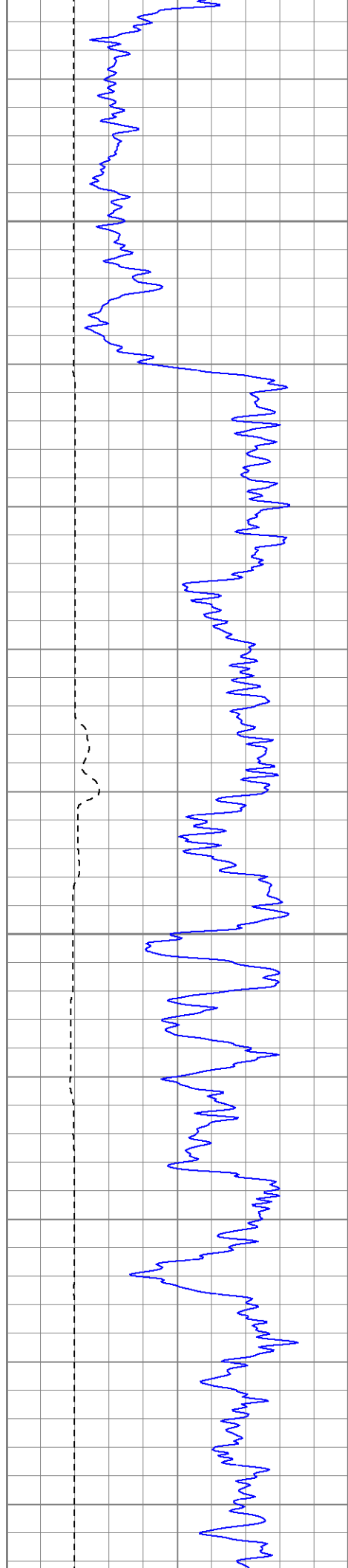




550

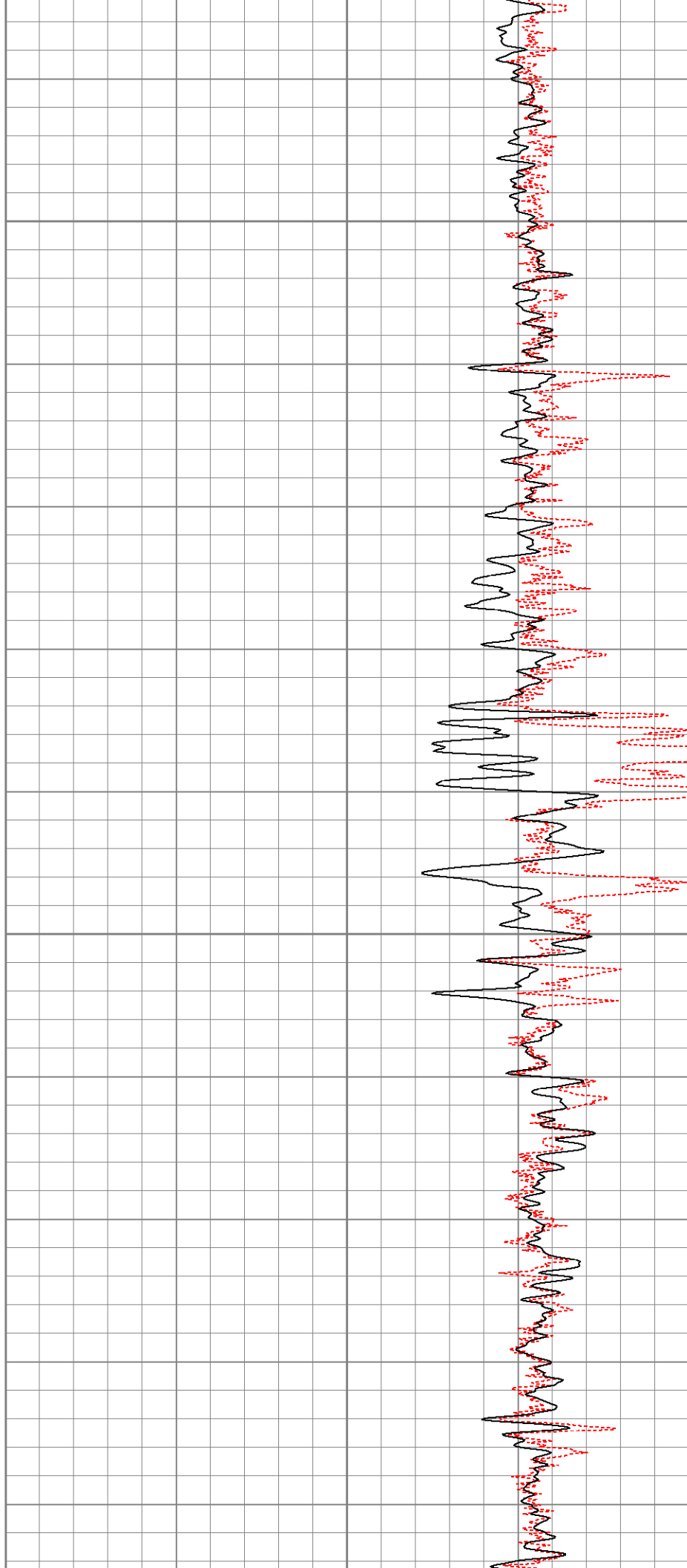
600





650

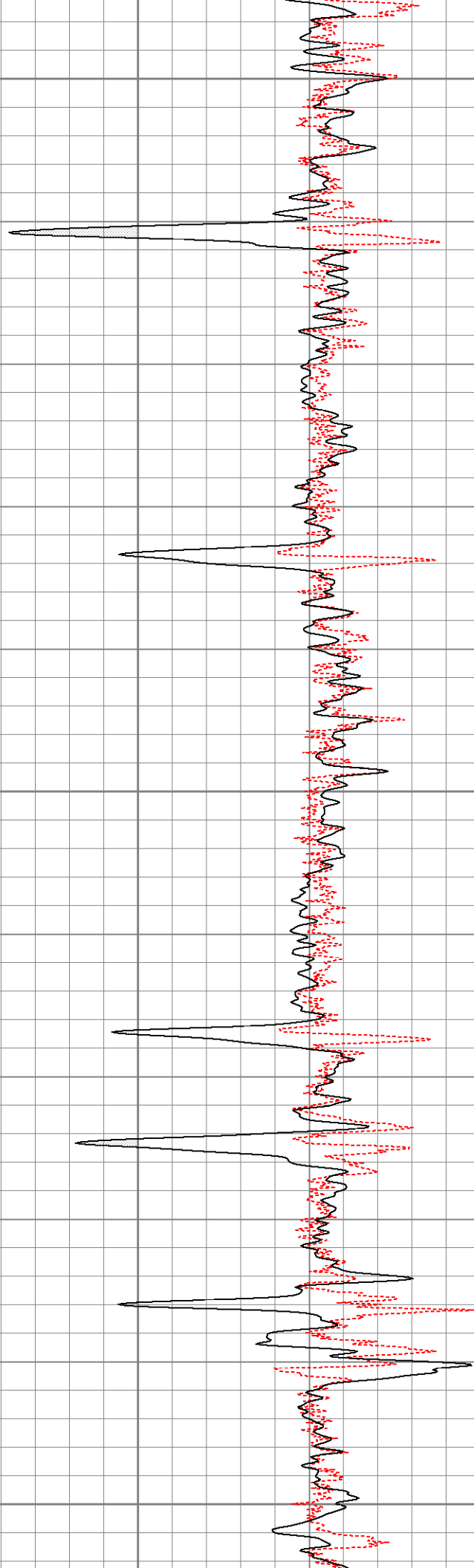
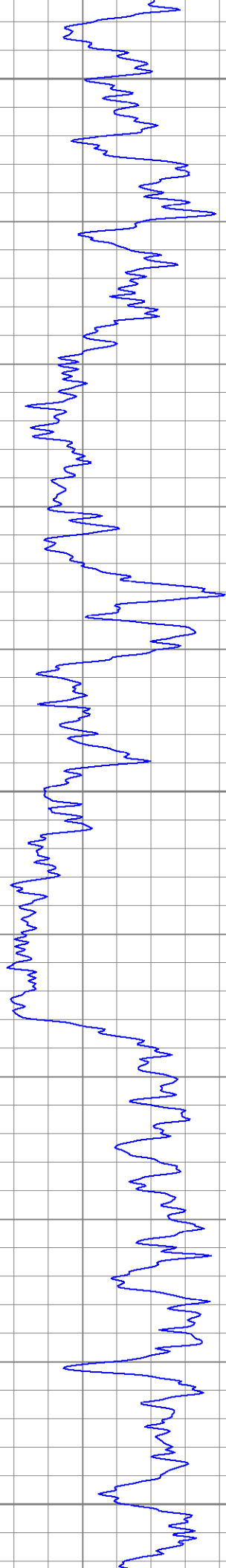
700

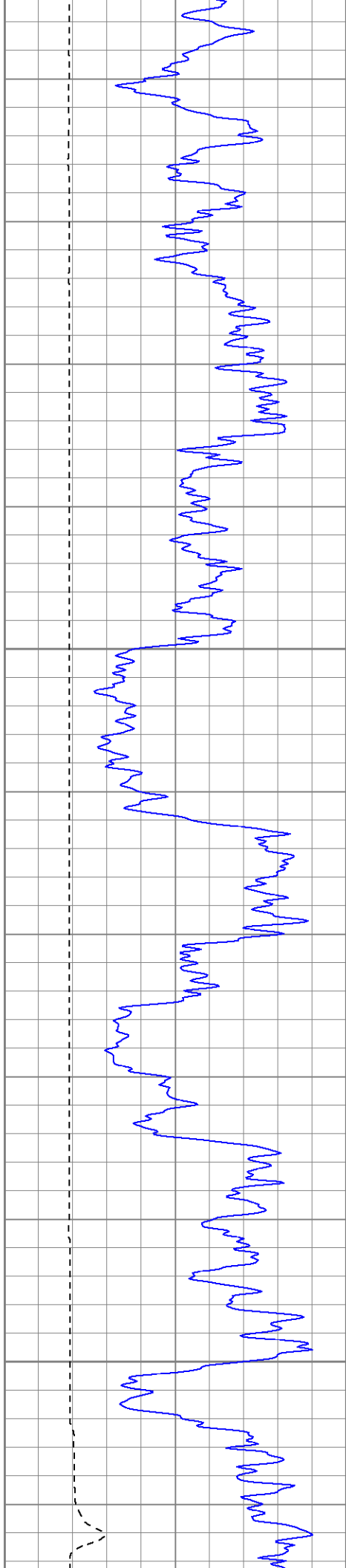


750

800

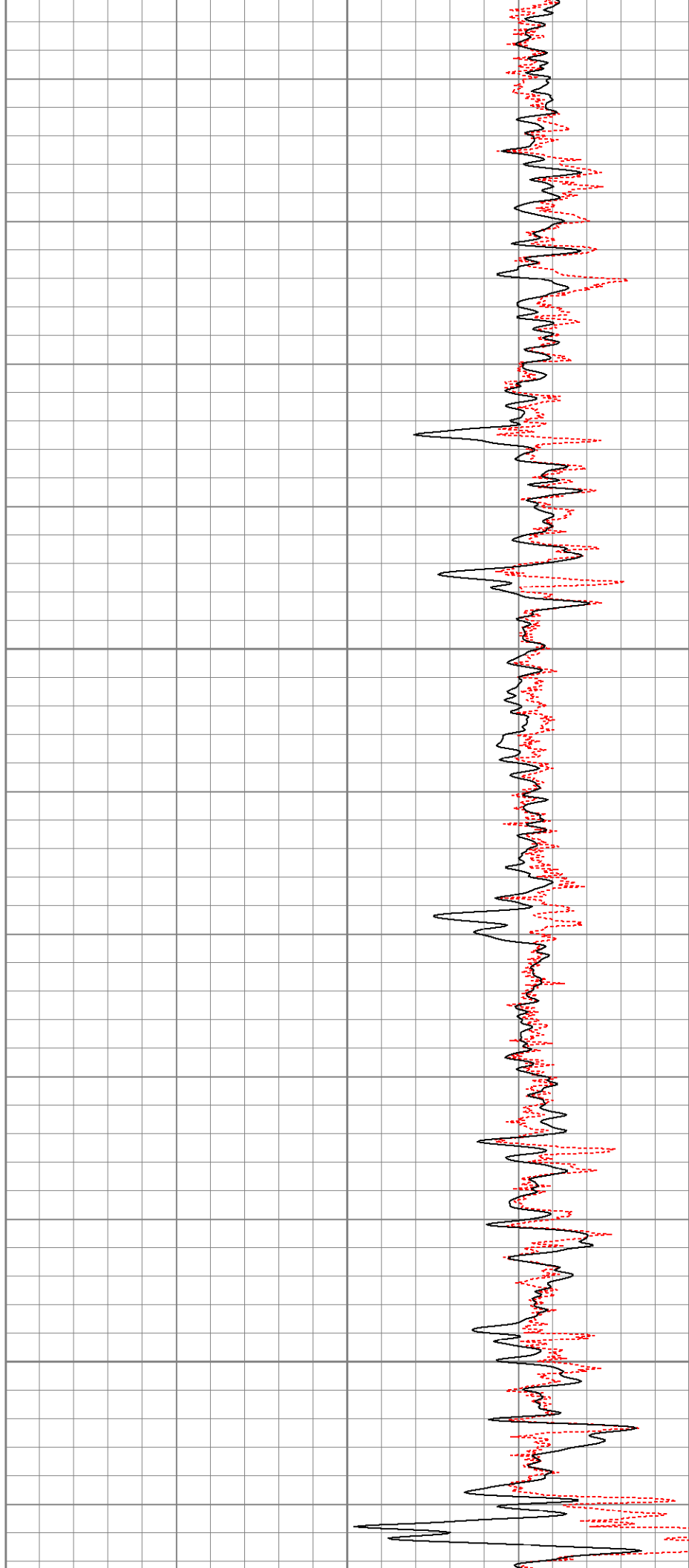
850

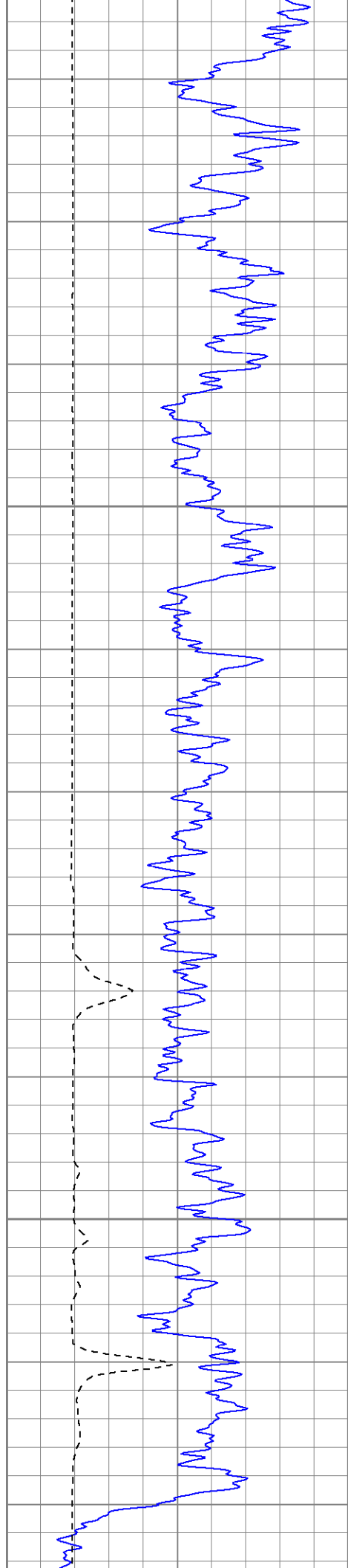




900

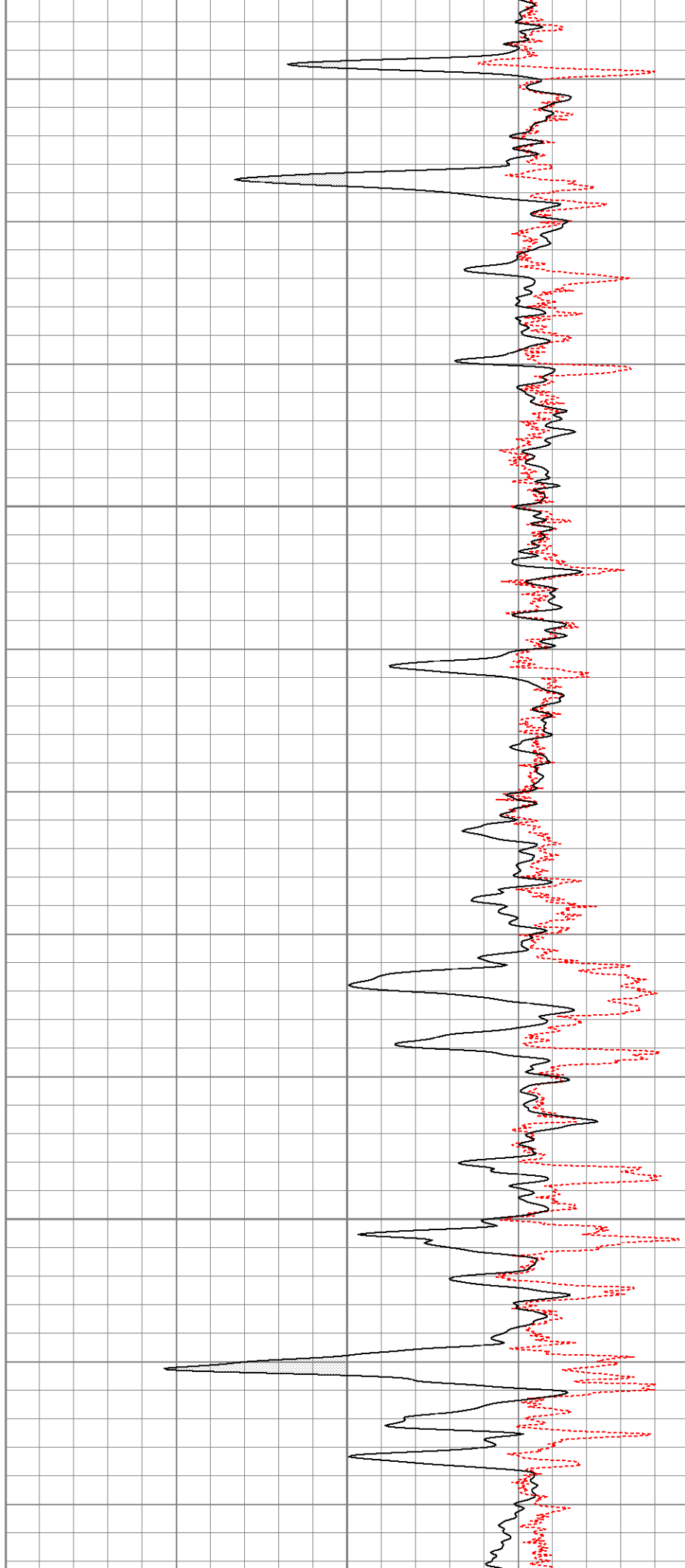
950

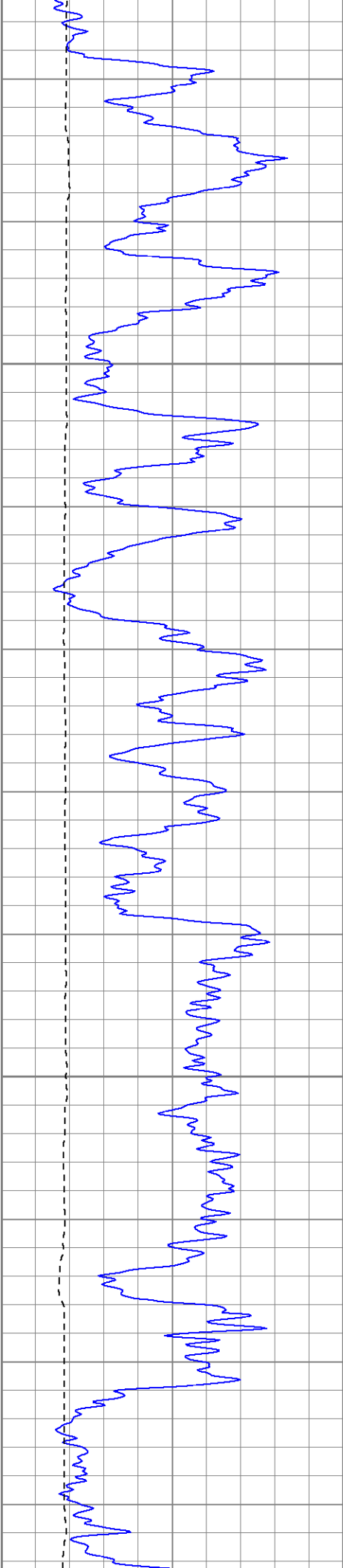




1000

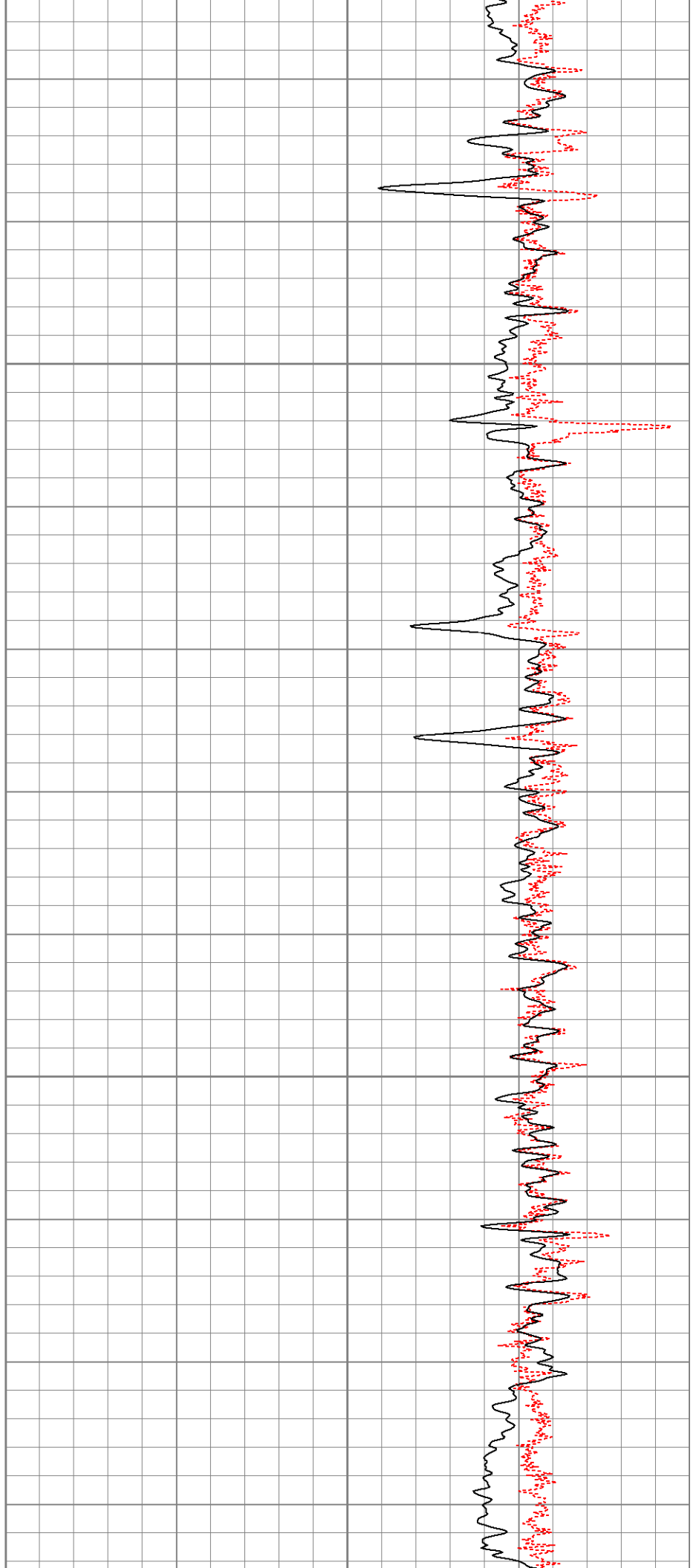
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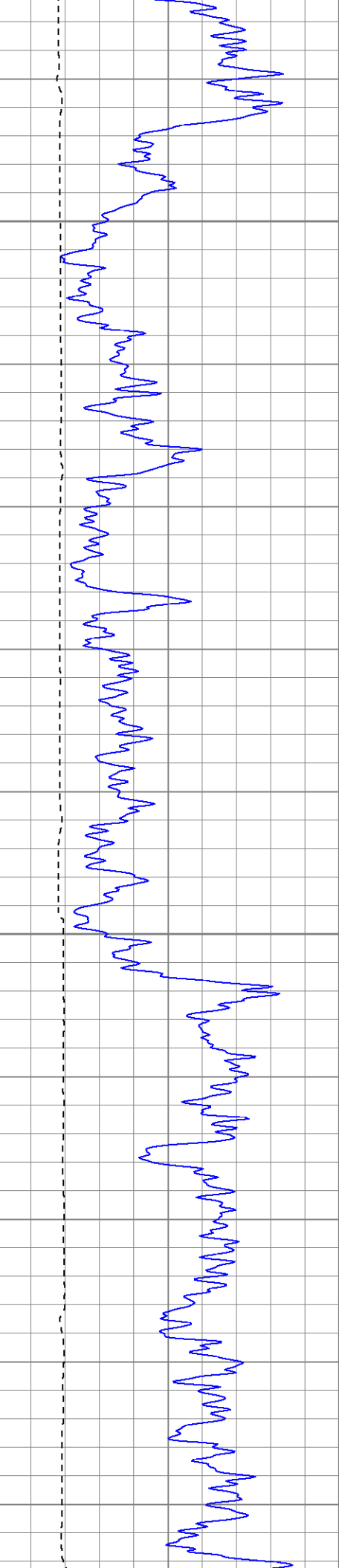




1100

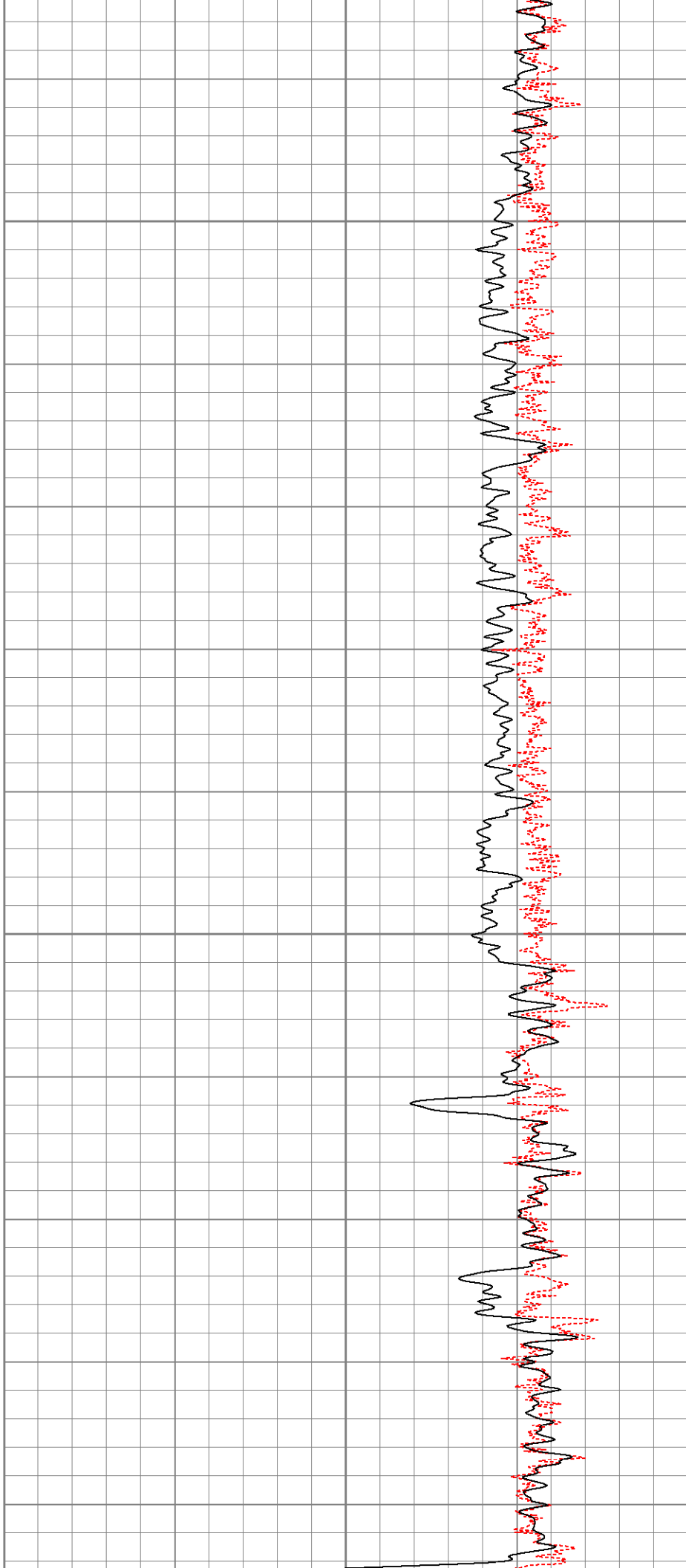
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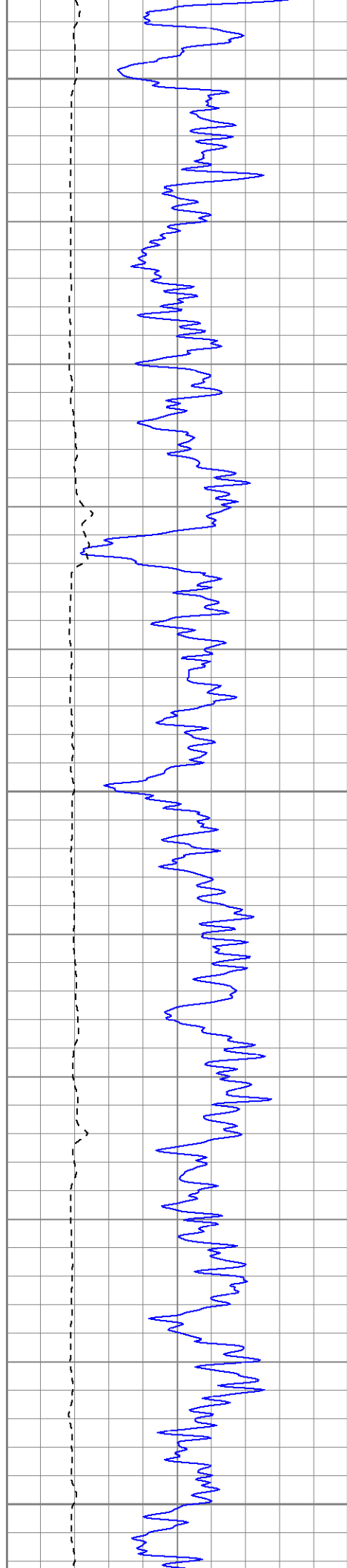




1200

1250

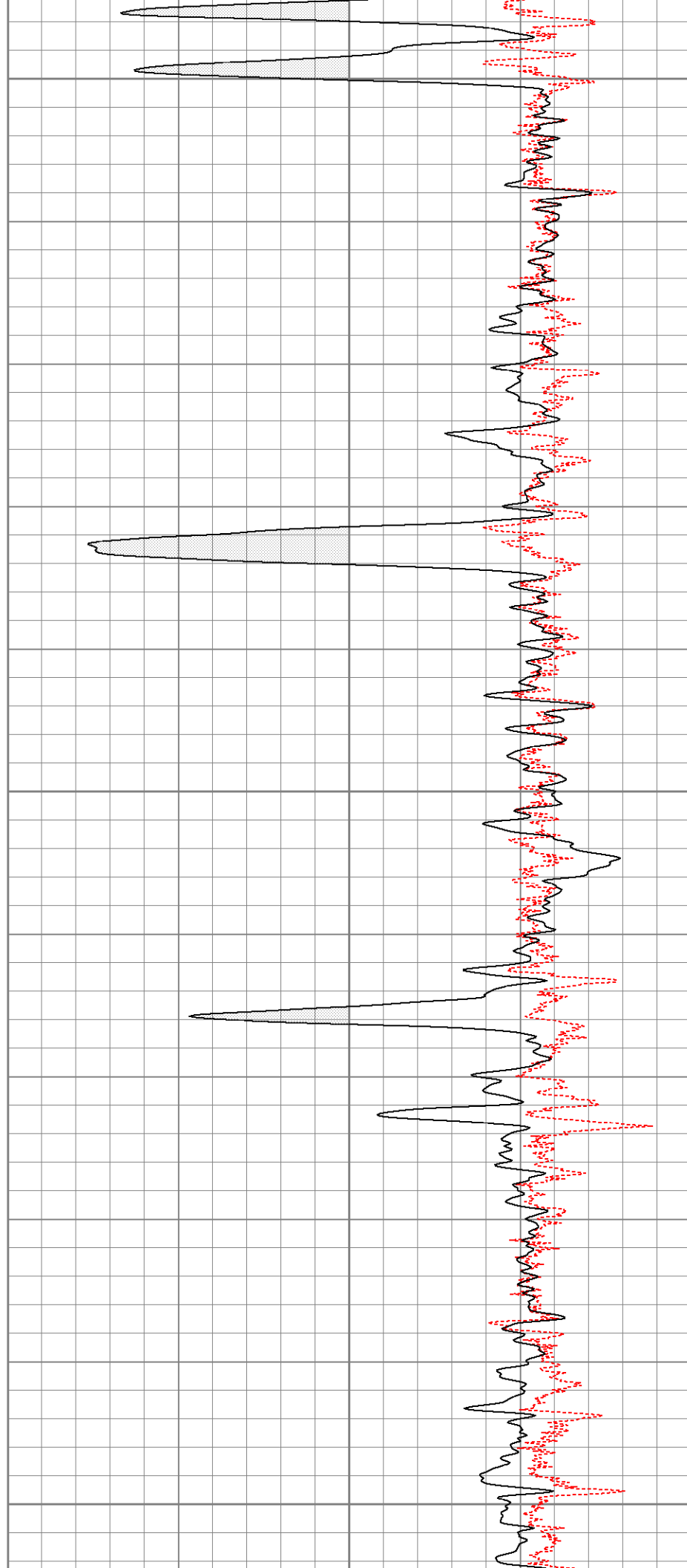


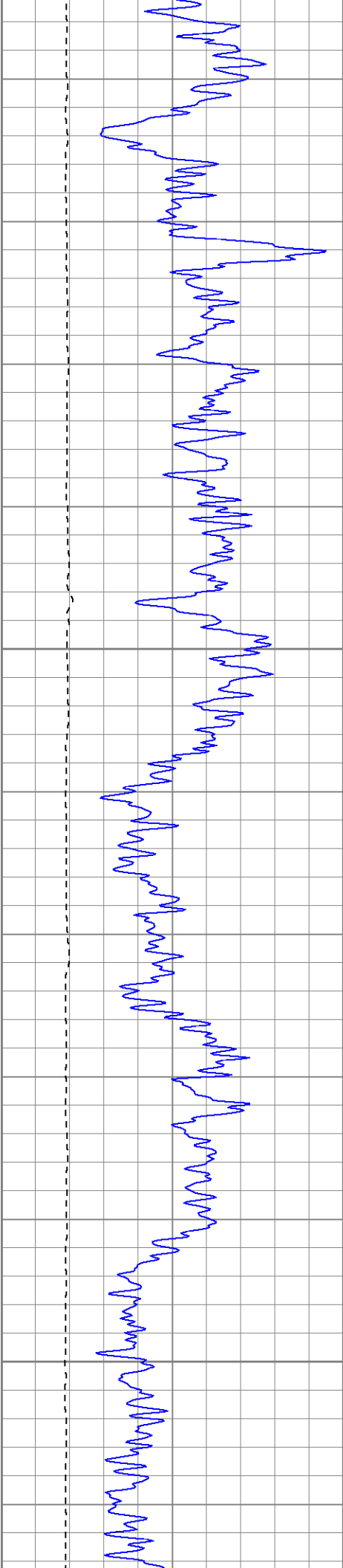


1300

1350

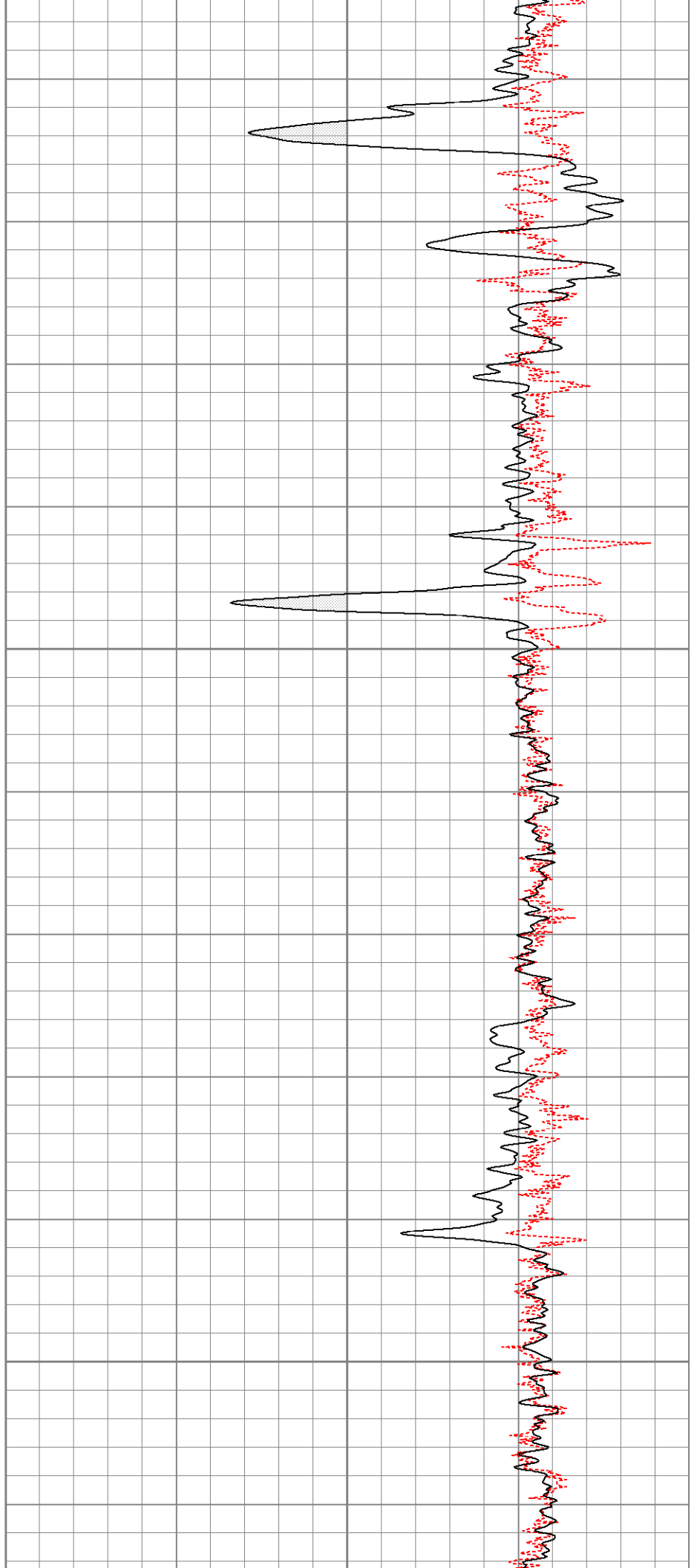
1400





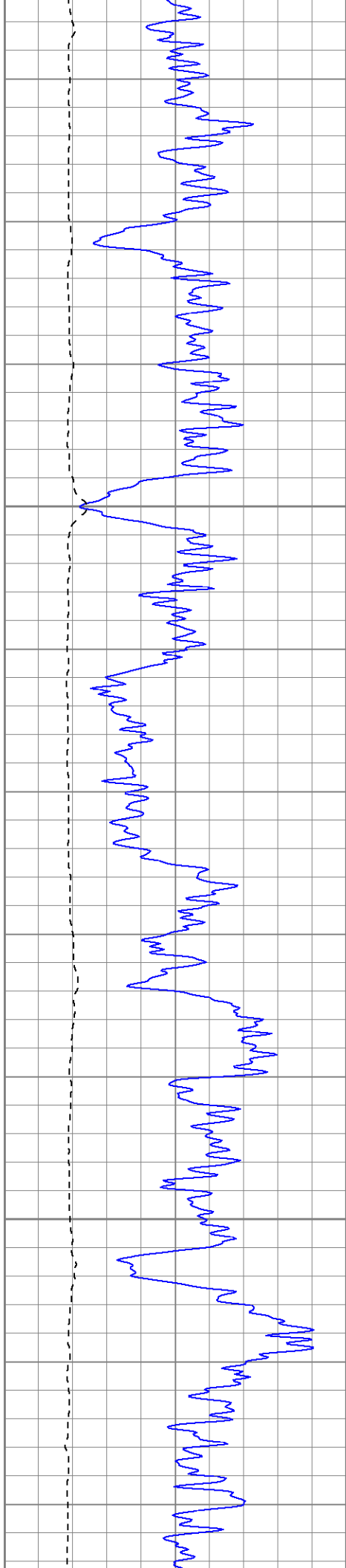
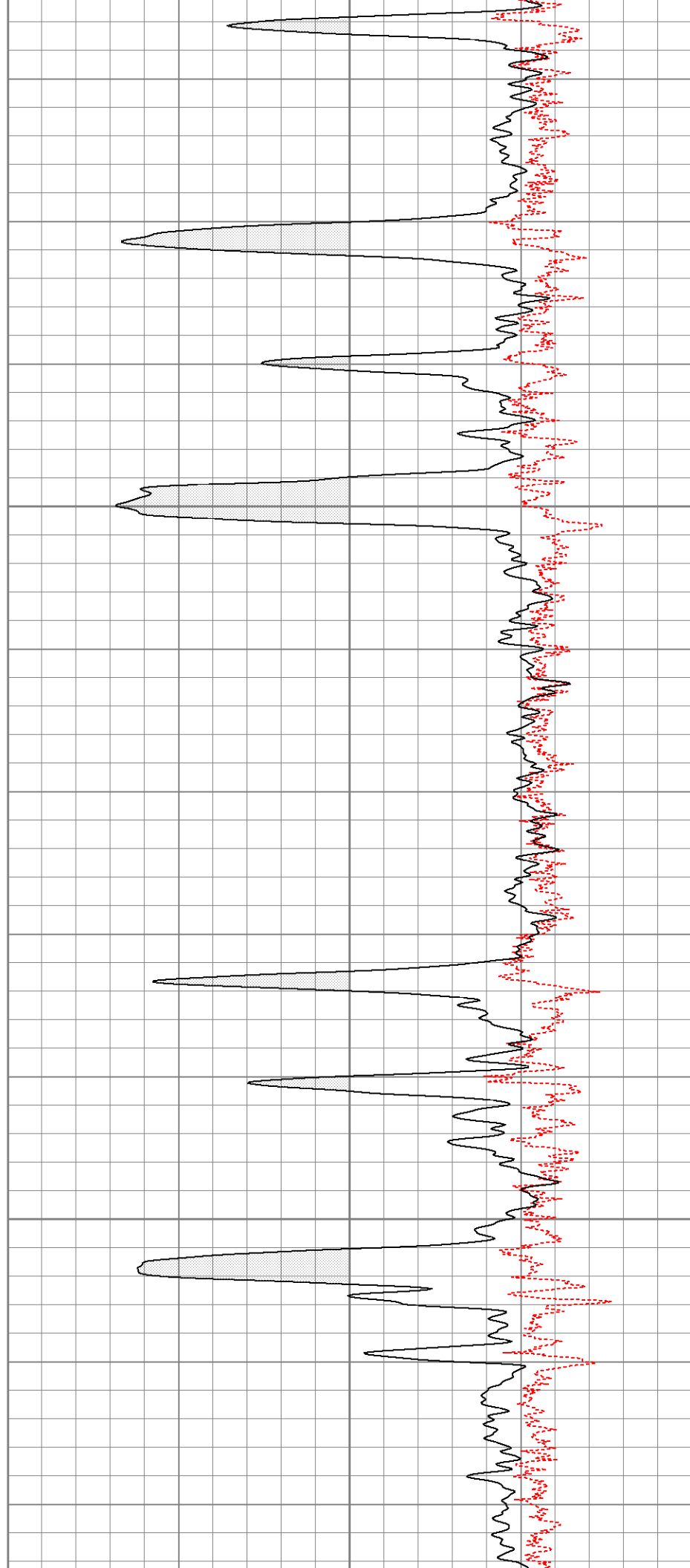
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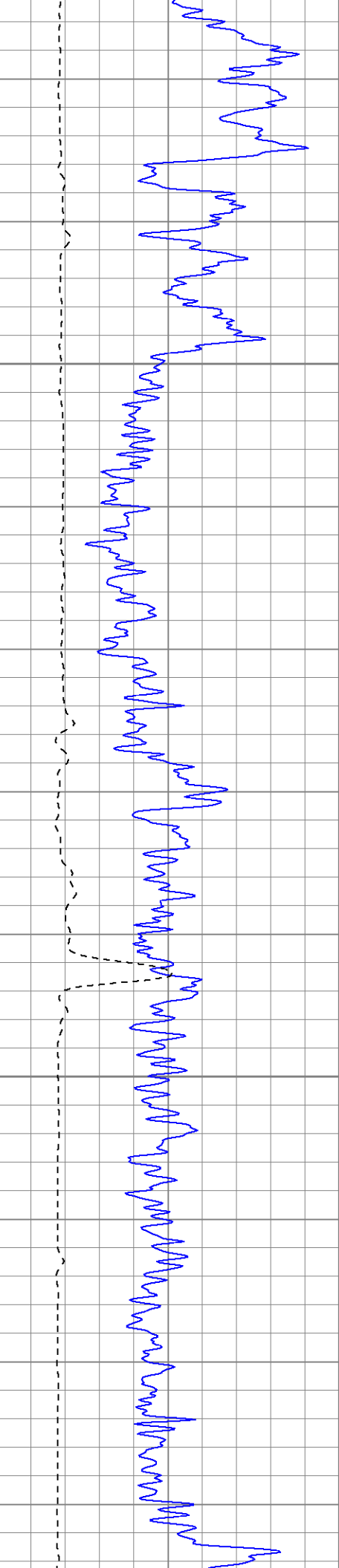
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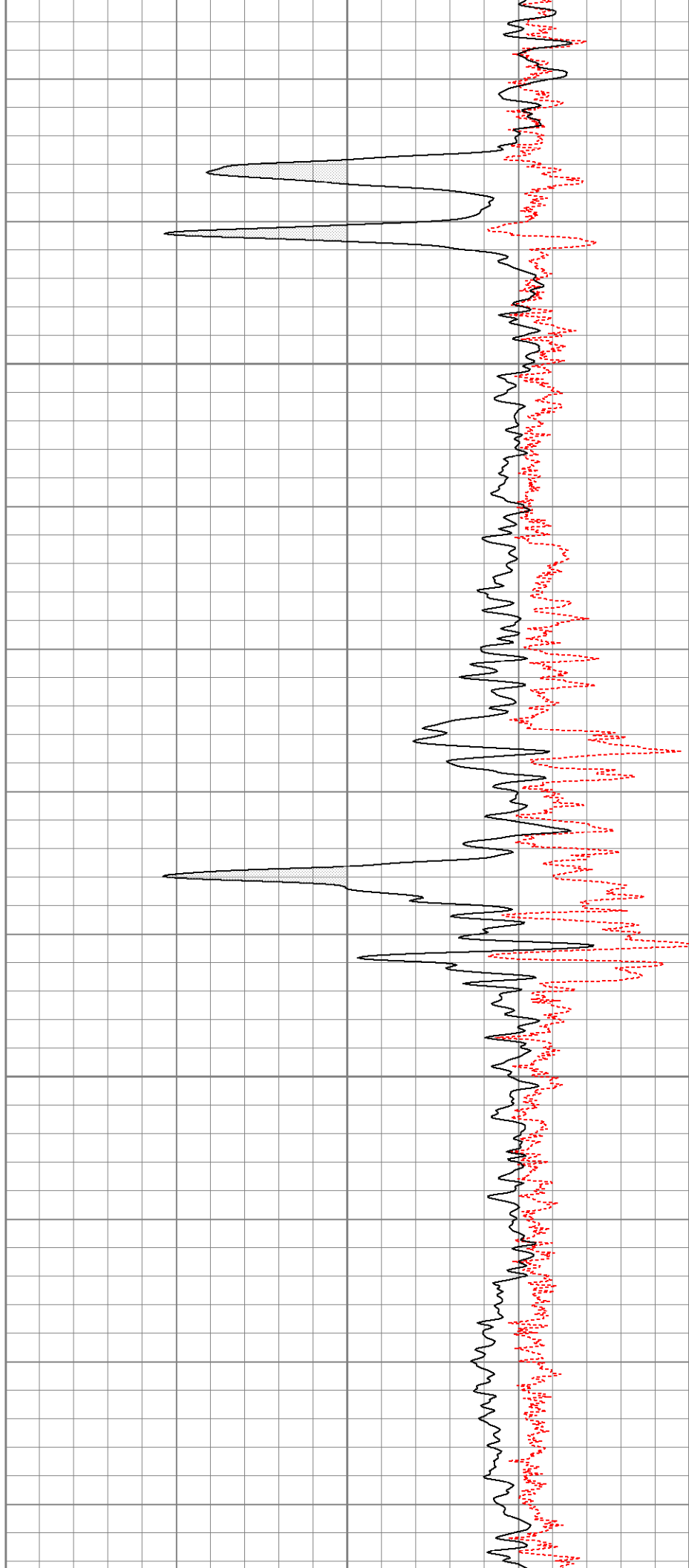
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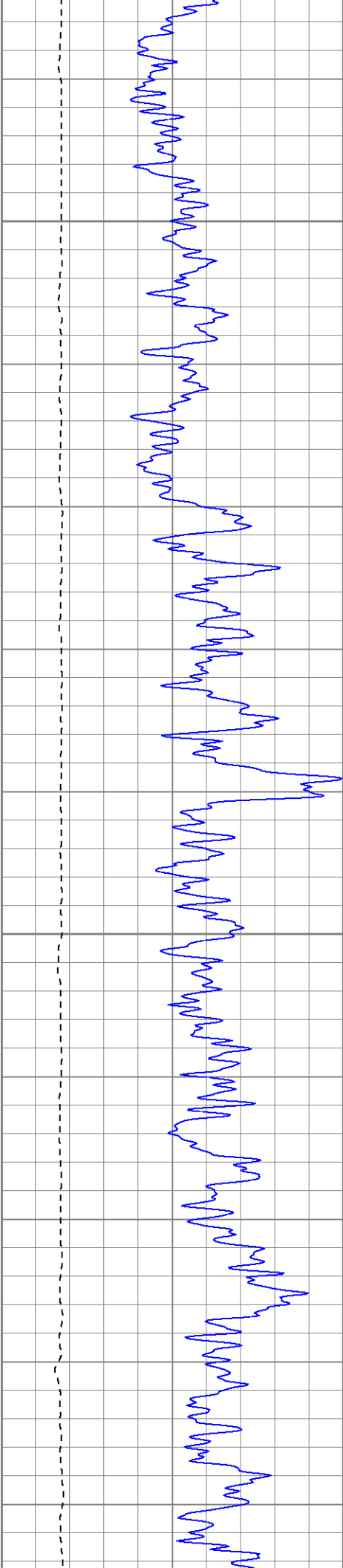




1650

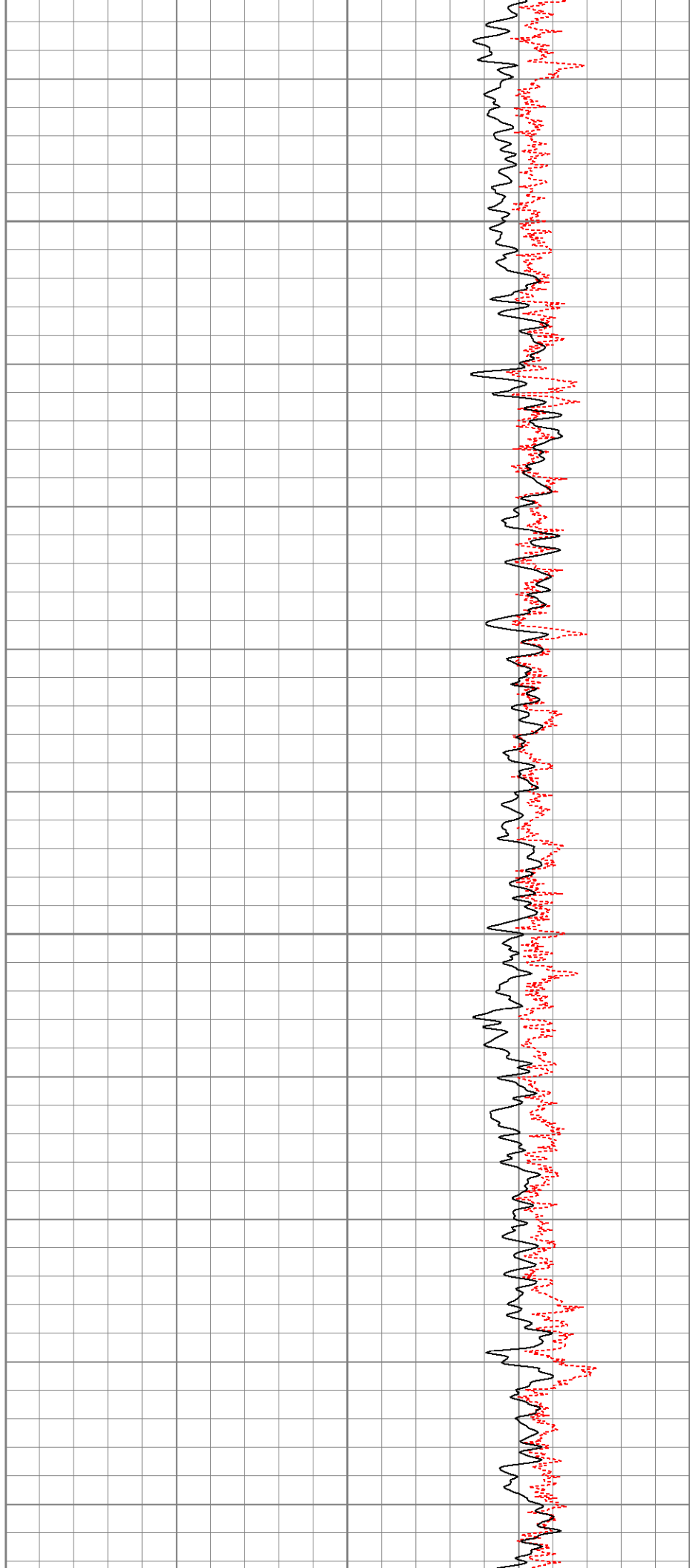
1700

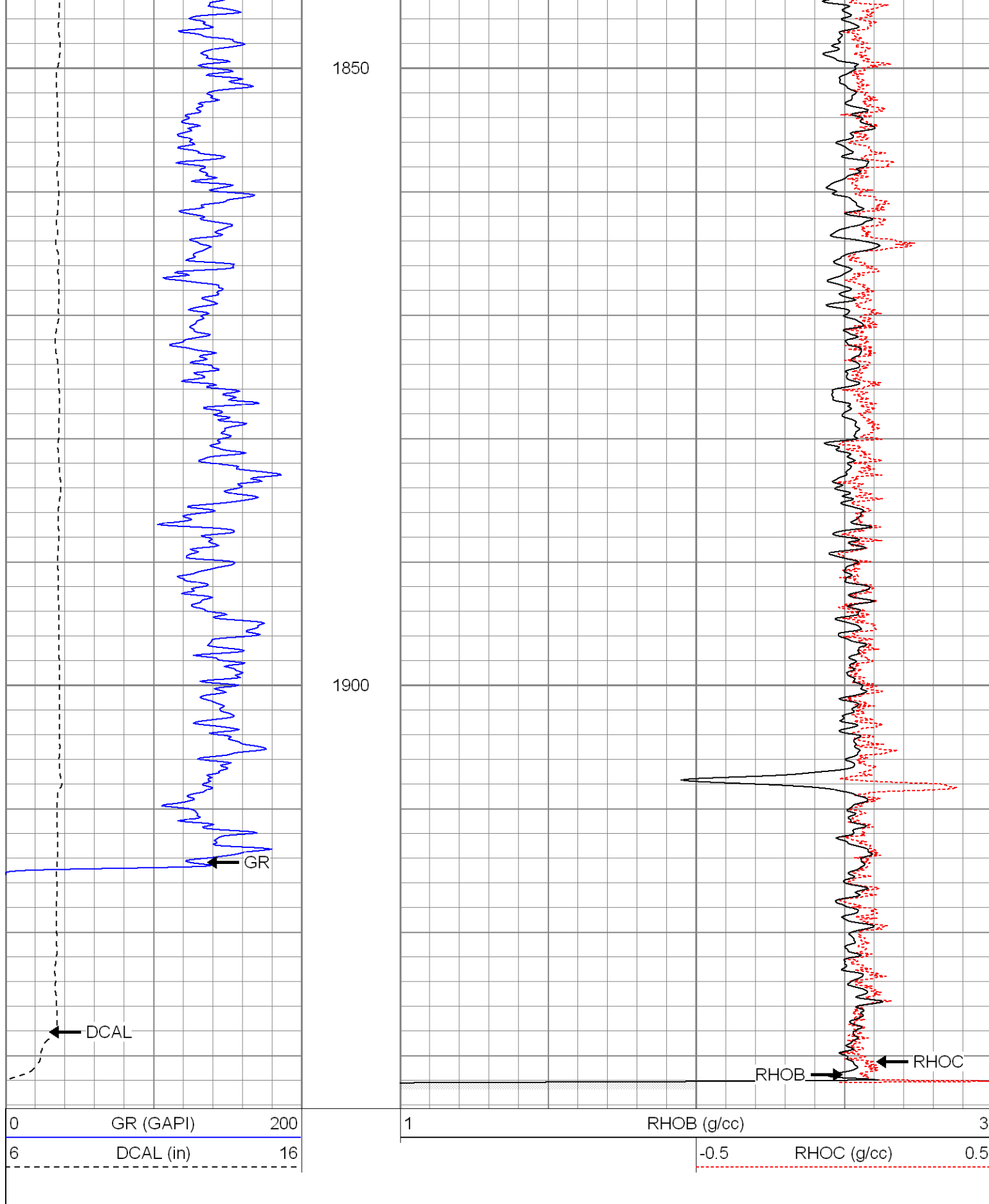




1750

1800





Calibration Report

Database File: xtoge3005.db
Dataset Pathname: pass4
Dataset Creation: Sun Jul 29 14:20:12 2007 by Log Open-Cased 061129

Serial-Model: 2119-O
Source / Verifier: csv-j12 / blks
Master Calibration Performed: Thu May 17 21:21:31 2007

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	988.49	602.41	cps
Aluminum	2.590	g/cc	220.69	404.88	cps
Spine Angle = 75.16			Density/Spine Ratio = 0.567		
	Size		Reading		
Small Ring	7.85	in	3.20	V	
Large Ring	14.00	in	8.81	V	

Gamma Ray Calibration Report

Serial Number: 2119
Tool Model: O
Performed: Sun May 20 09:48:53 2007

Calibrator Value: 170.0 GAPI

Background Reading: 42.6 cps
Calibrator Reading: 139.0 cps

Sensitivity: 0.6000 GAPI/cps


Neutron Calibration Report

Serial Number: 5145
Tool Model: G
Performed: Sat Jul 21 07:01:21 2007

Calibrator Value: 1200 NAPI

Calibrator Reading: 1700 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	12.44		None	0.75	1.50	5.00
			NEU-G (5145) Gearhart Epithermal	5.75	3.50	85.00
GR	7.64		GR-O (2119) Oilex	2.60	3.63	74.00
LSD DCAL SSD	2.13 1.79 1.58		CDL-O (2119) Oilex	5.77	4.00	201.00

Dataset: xtoge3005.db: field/well/run1/pass4
Total Length: 14.87 ft
Total Weight: 365.00 lb
O.D.: 4.22 in

4.00 in

0.00