



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

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Golden Eagle 32-03
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09142 00

12' FNL & 1847' FWL

DIL

SEC 32 TWP 33S RGE 67W

Permanent Datum	Ground Level	Elevation	7570'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B. -----
D.F. -----
G.L. 7570'

Date	7-27-07		
Run Number	One		
Depth Driller	2235'		
Depth Logger	2237'		
Bottom Logged Interval	2235'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 868'		
Casing Logger	868'		
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	6:00 A.M.		
Time Logger on Bottom	8:30 A.M.		
Maximum Recorded Temperature	104 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, first left, first right,
at Y stay right, first drive thru location.

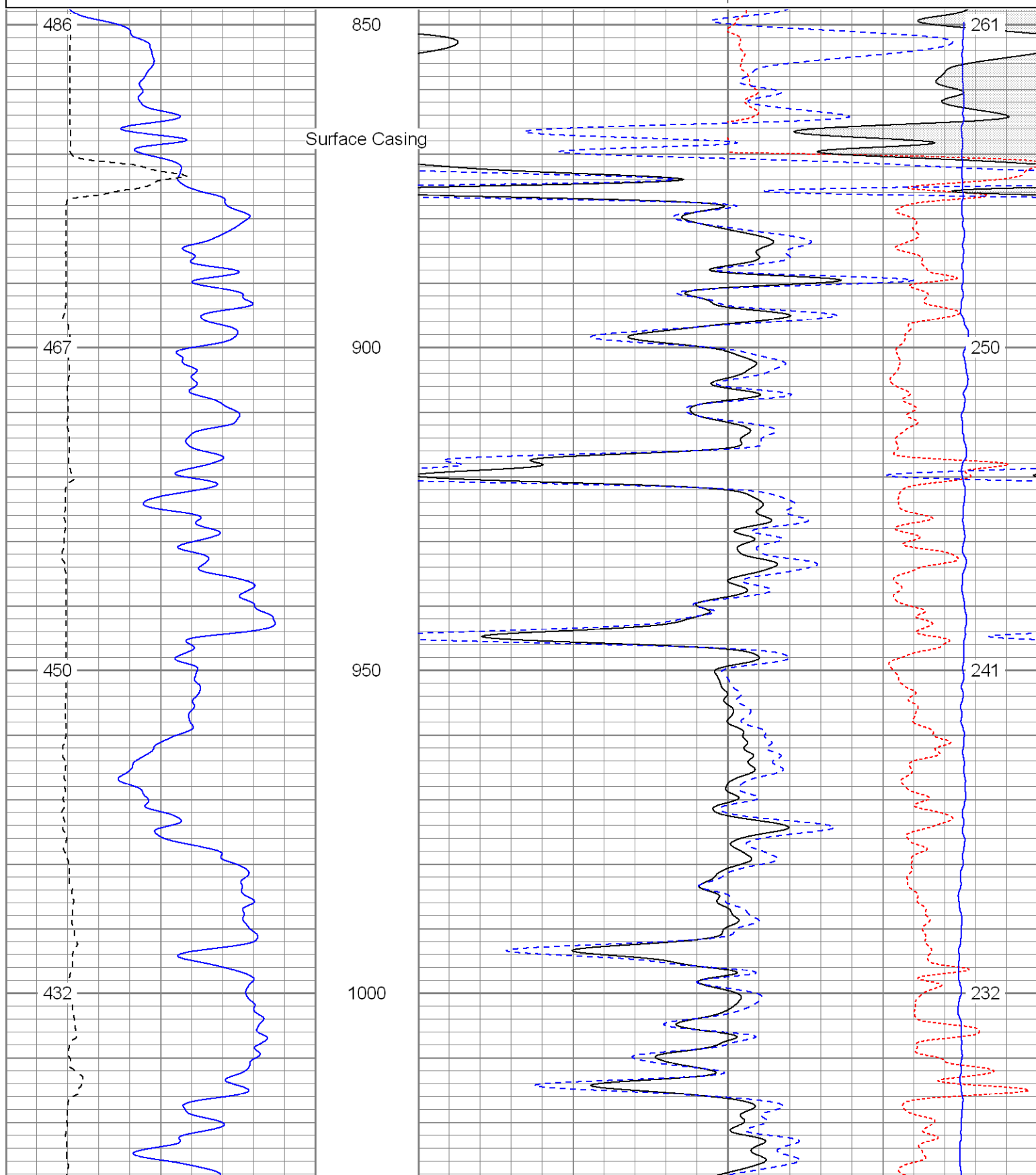


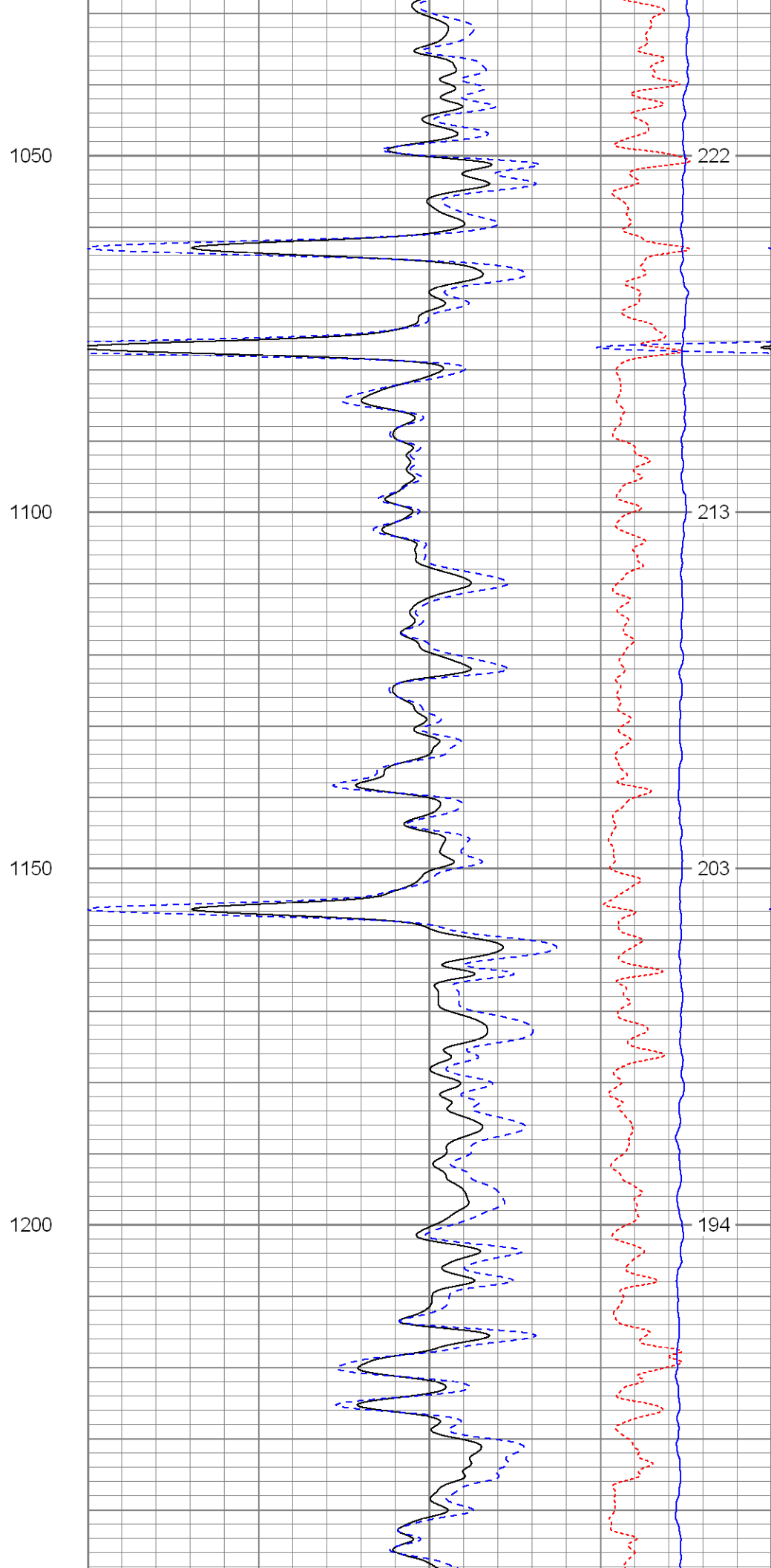
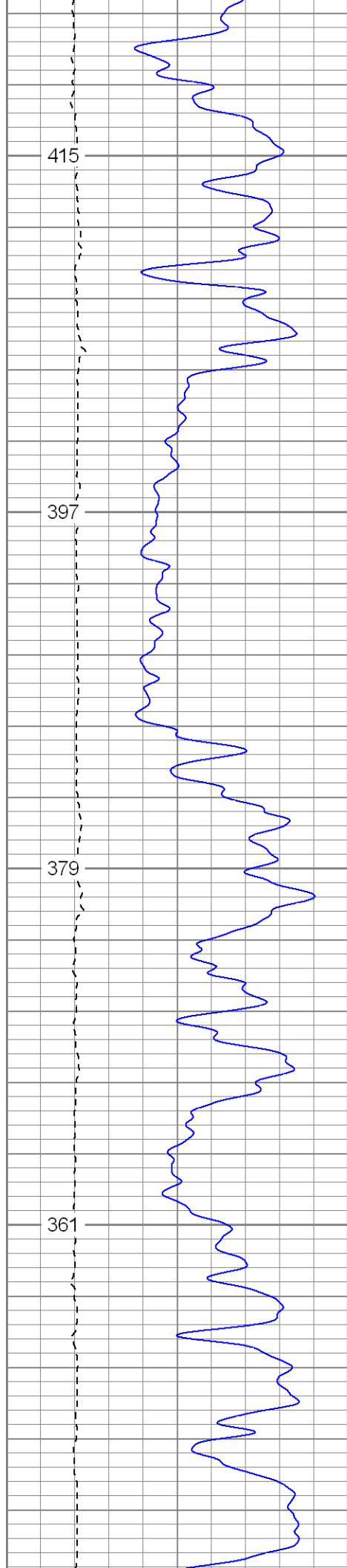
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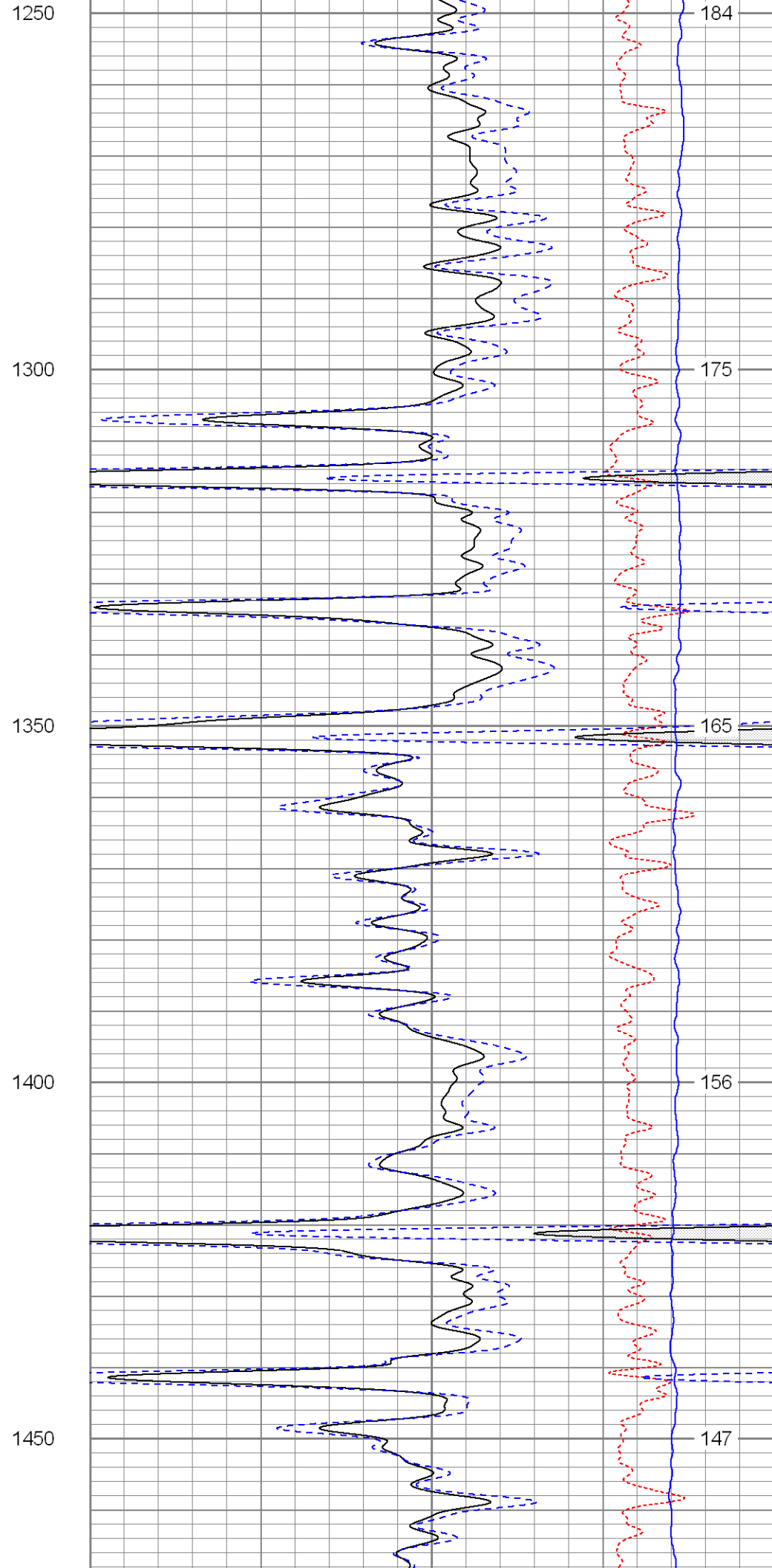
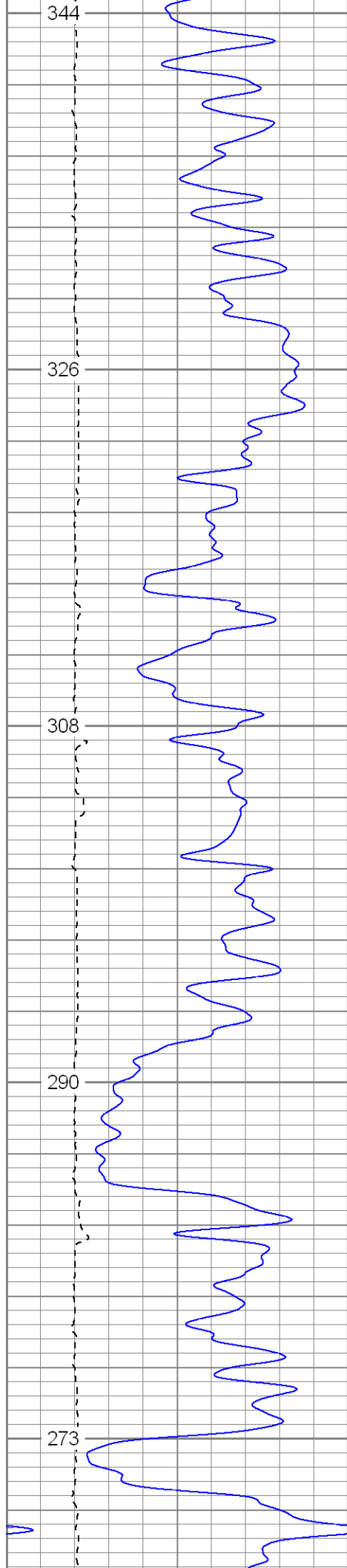
Main Pass

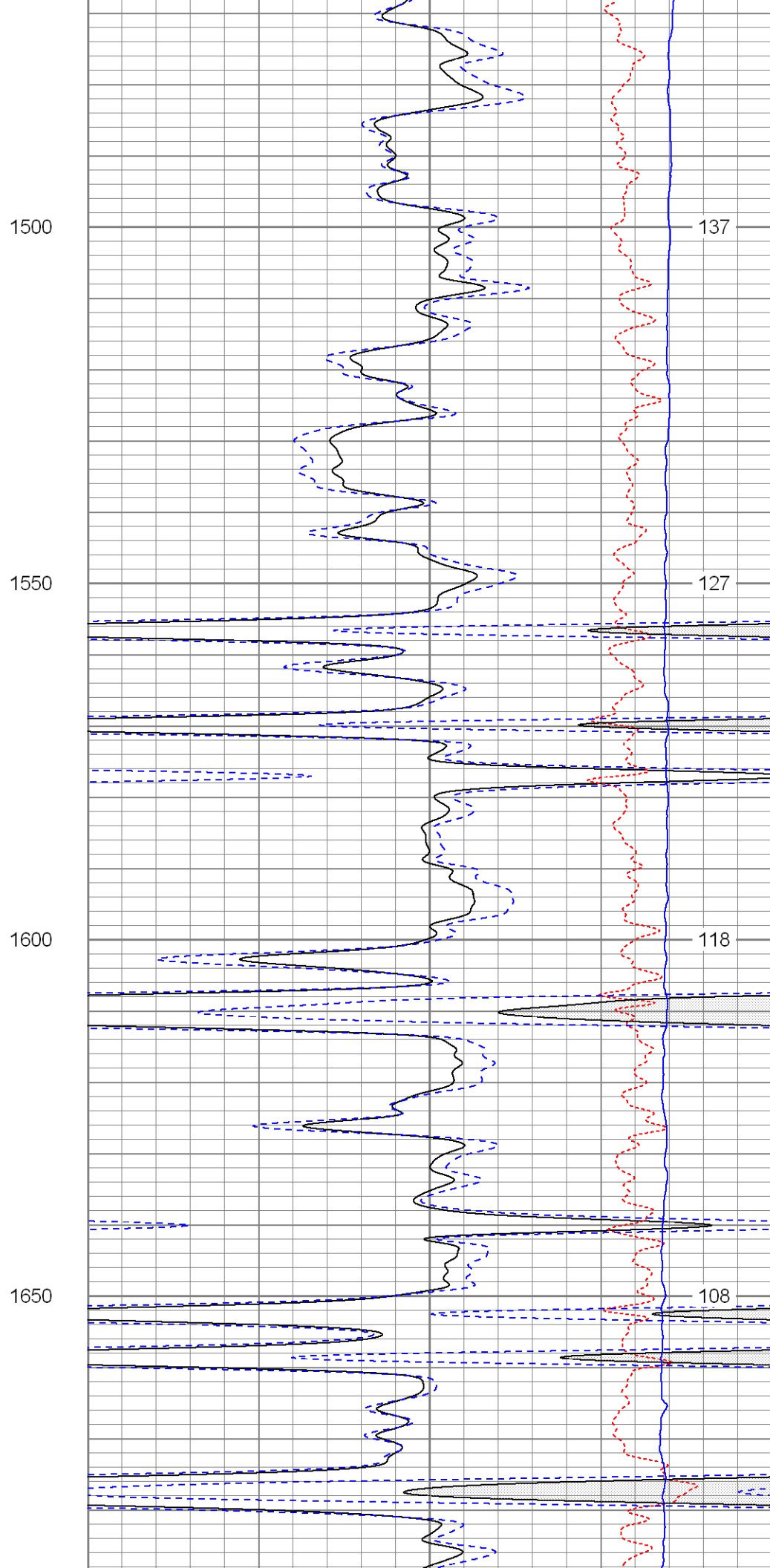
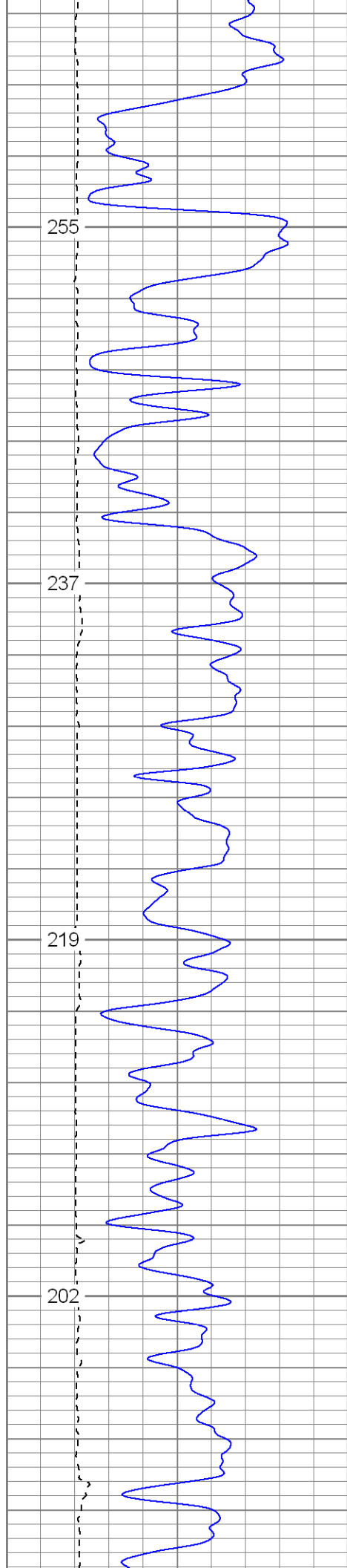
Database File: xtoge3203.db
Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Fri Jul 27 09:35:01 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

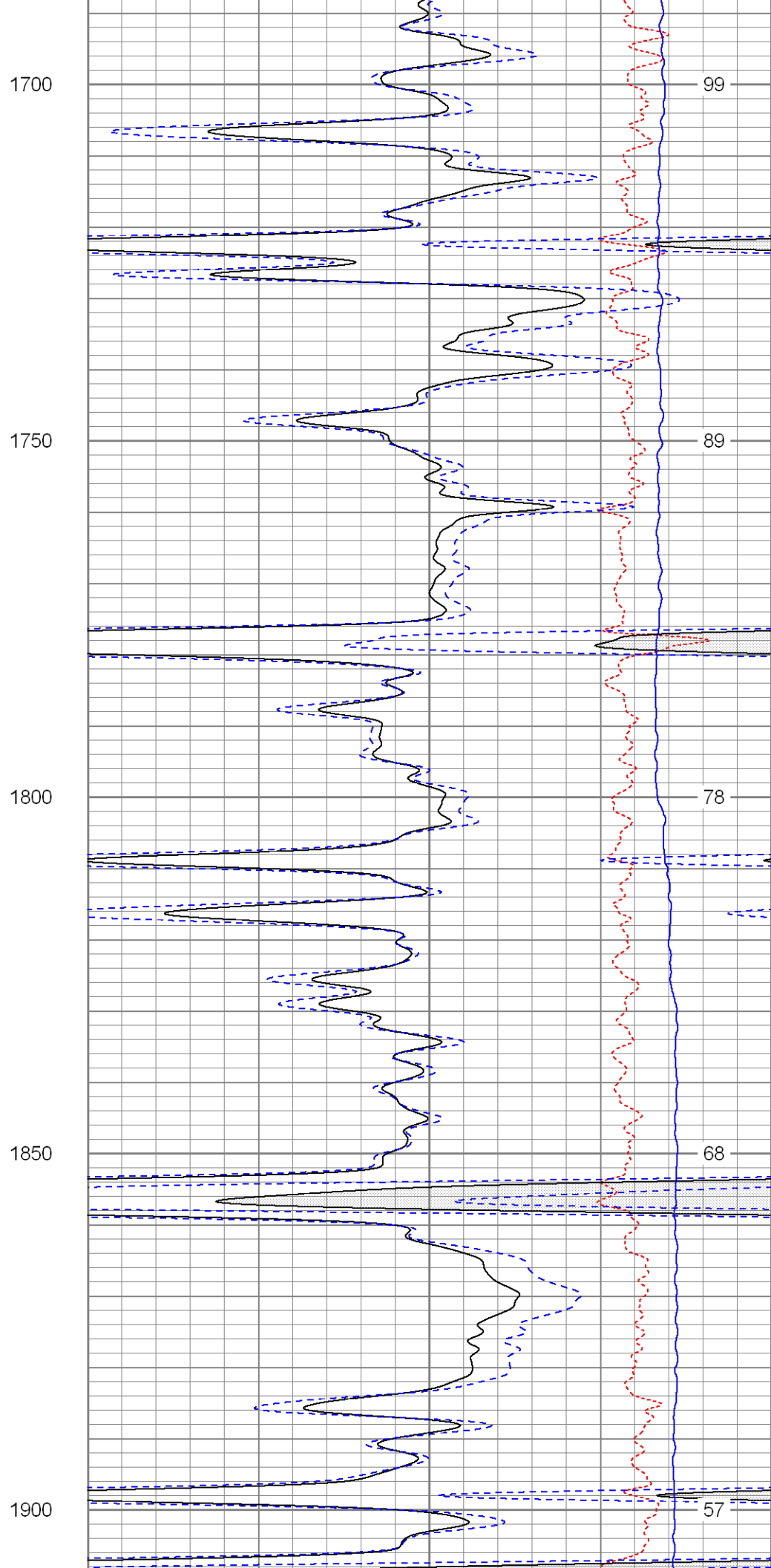
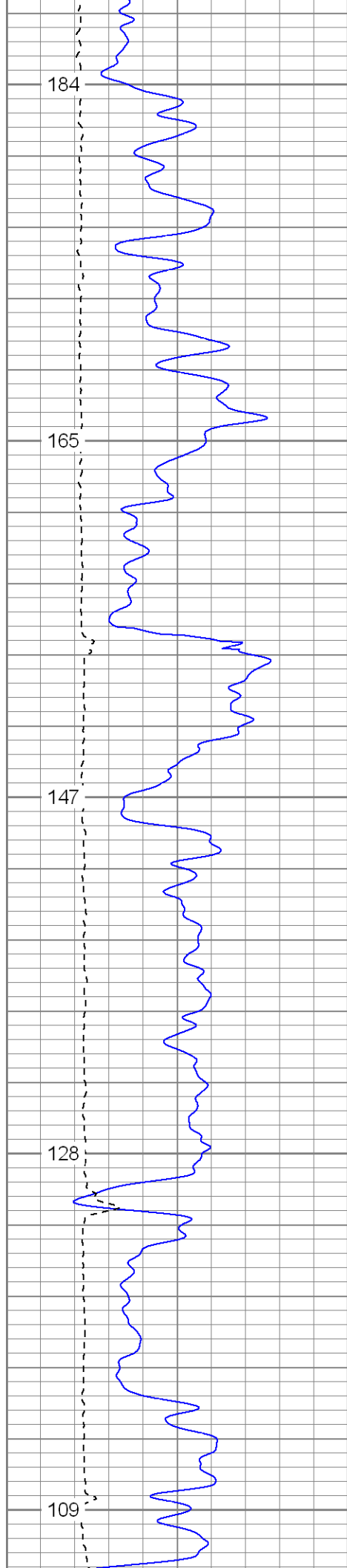
0	GR (GAPI)	200	1	RHOB (g/cc)	2
6	DCAL (in)	16	30	DPOR (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0

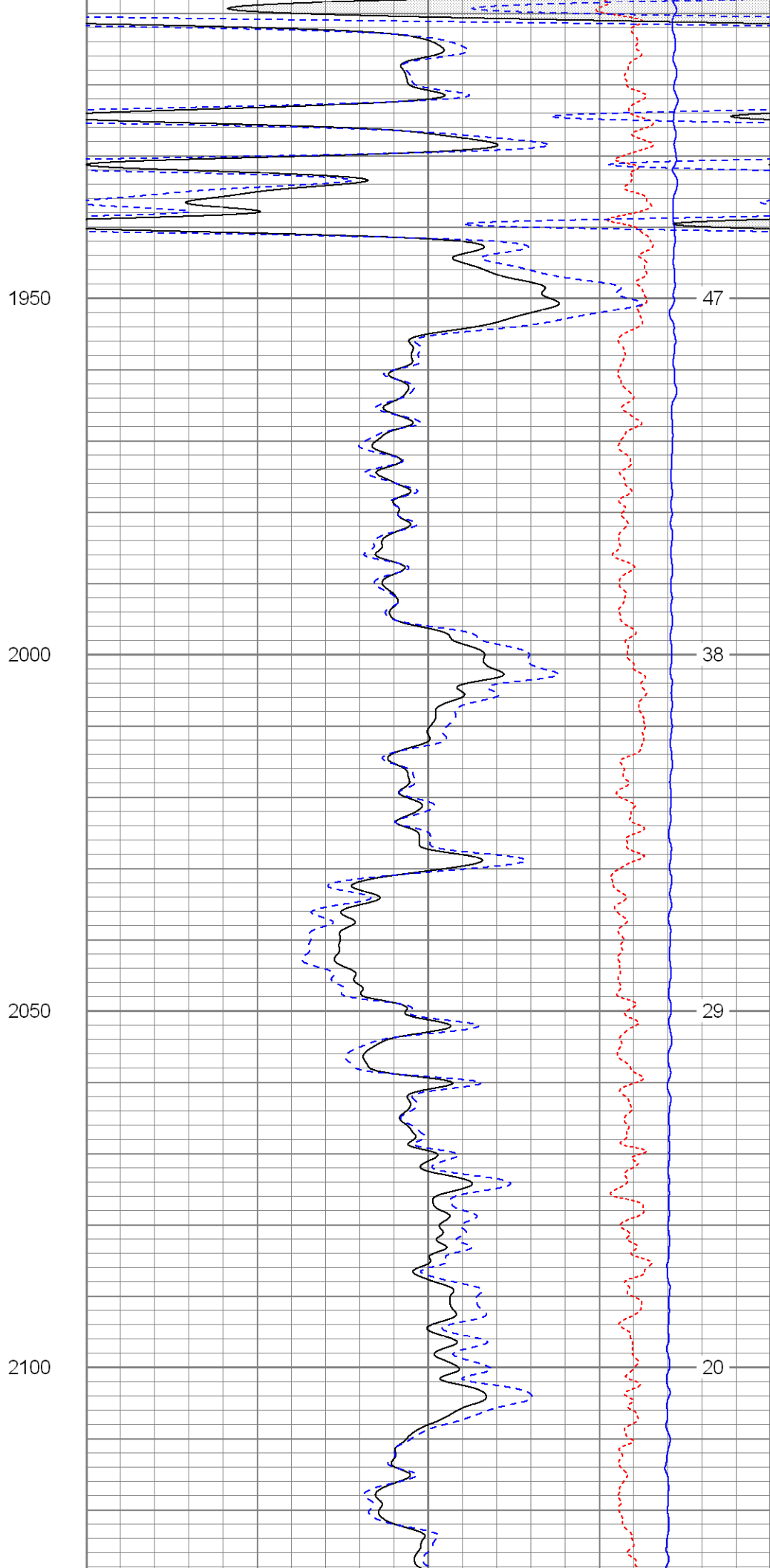
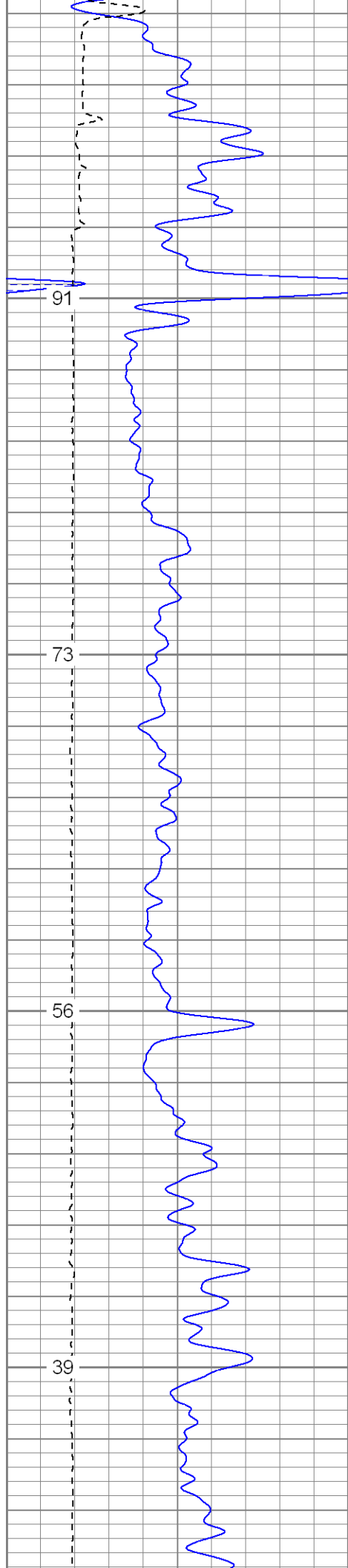


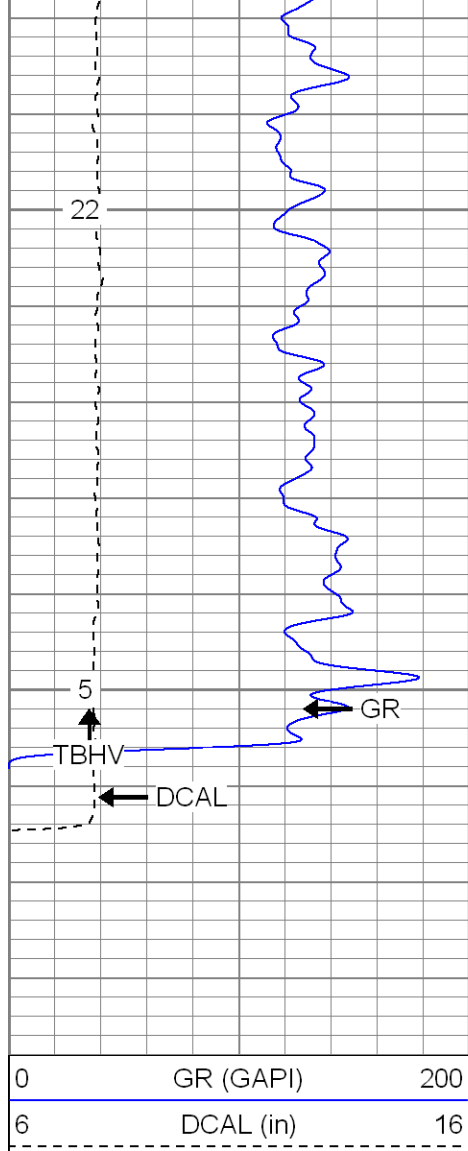






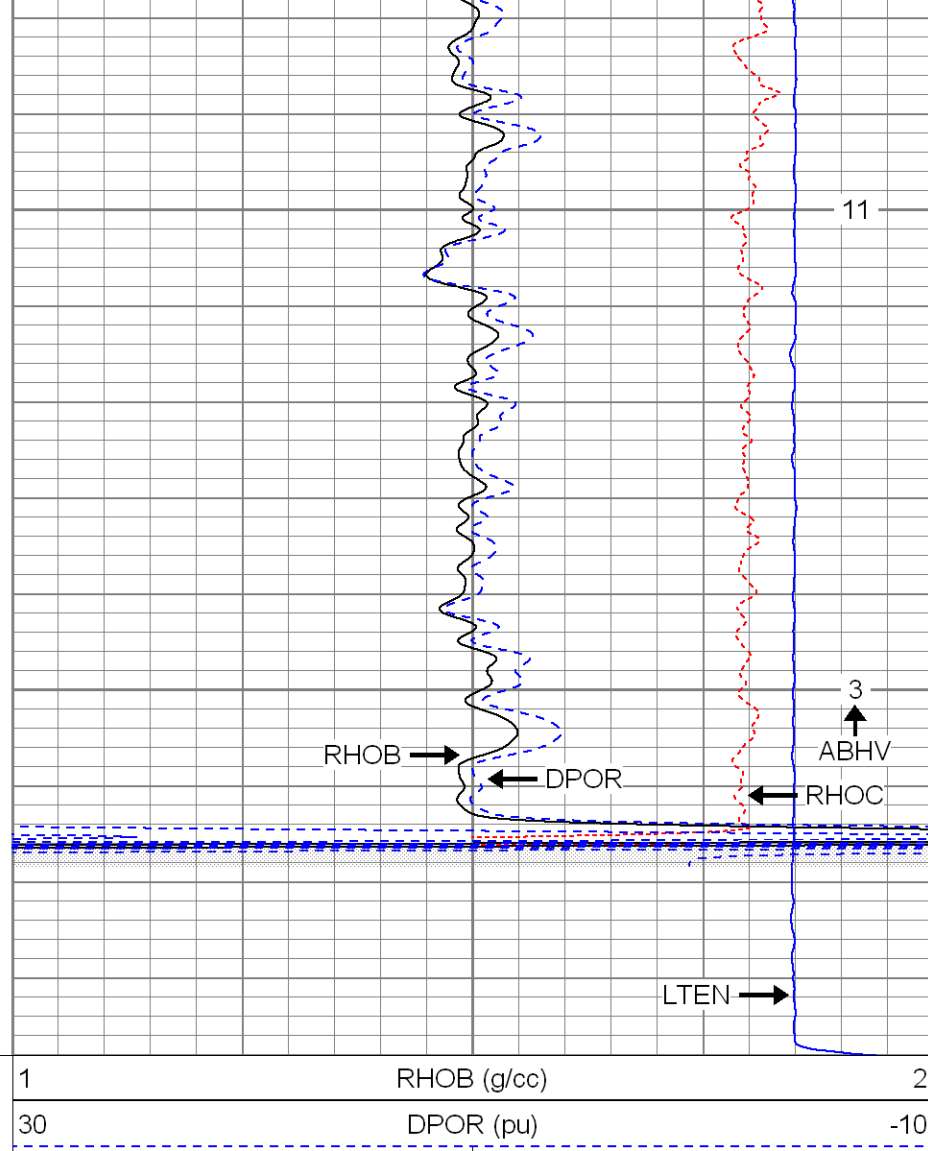






2150

2200



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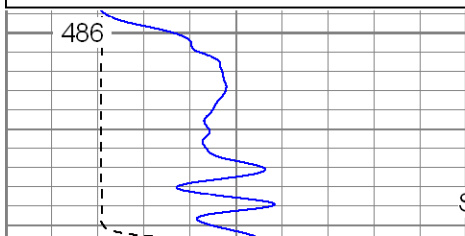
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Main Pass

Database File: xtoge3203.db
Dataset Pathname: pass4.1
Presentation Format: cdnl
Dataset Creation: Fri Jul 27 09:35:01 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

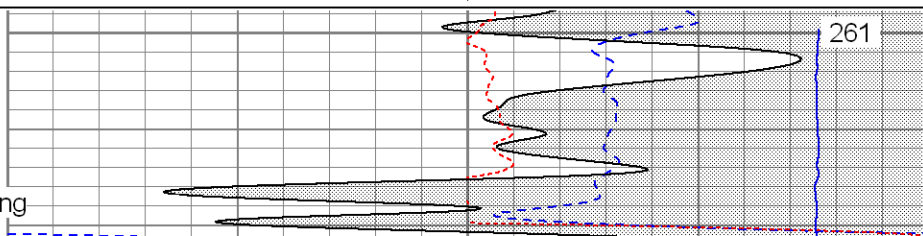
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6	DCAL (in)	16

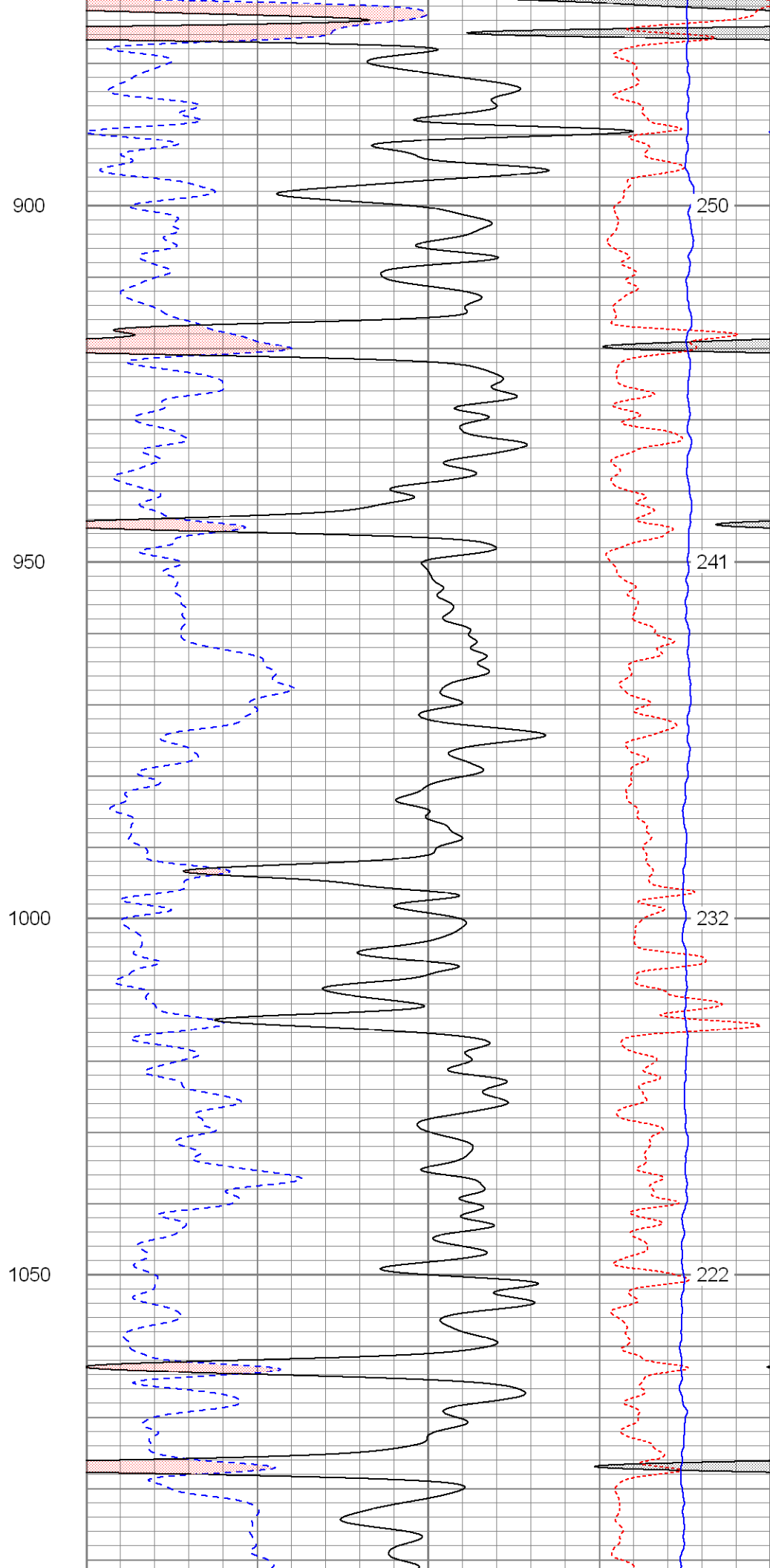
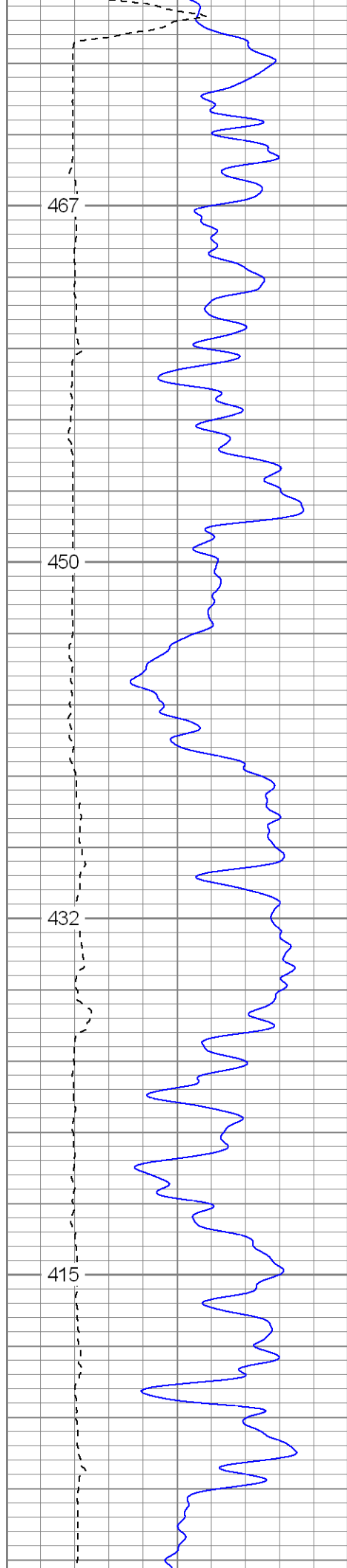
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

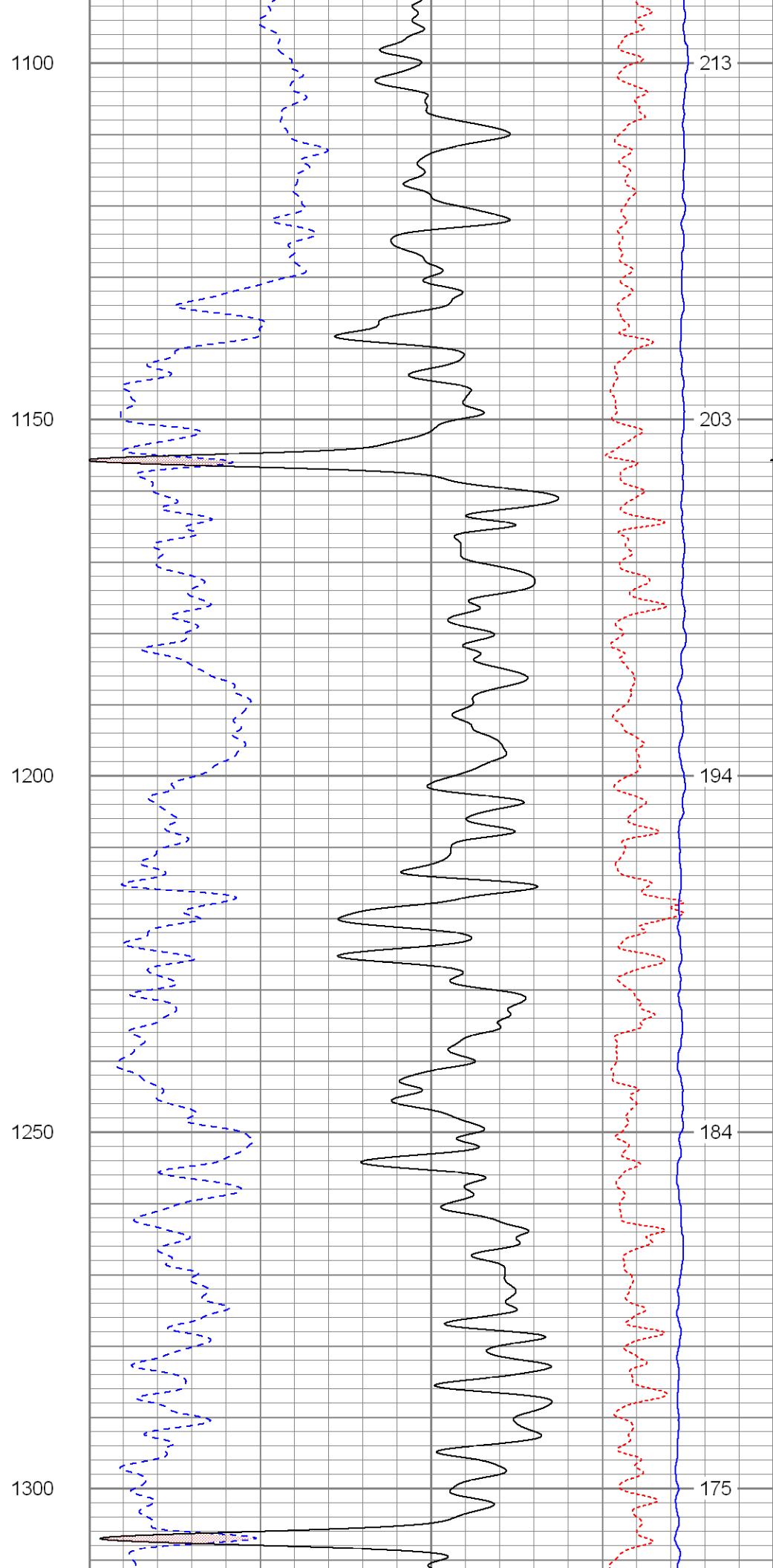
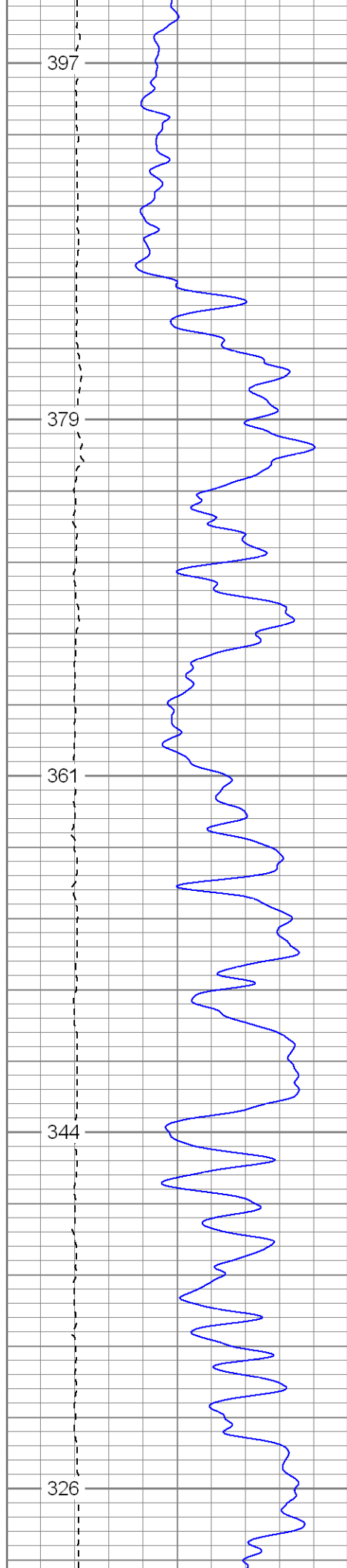


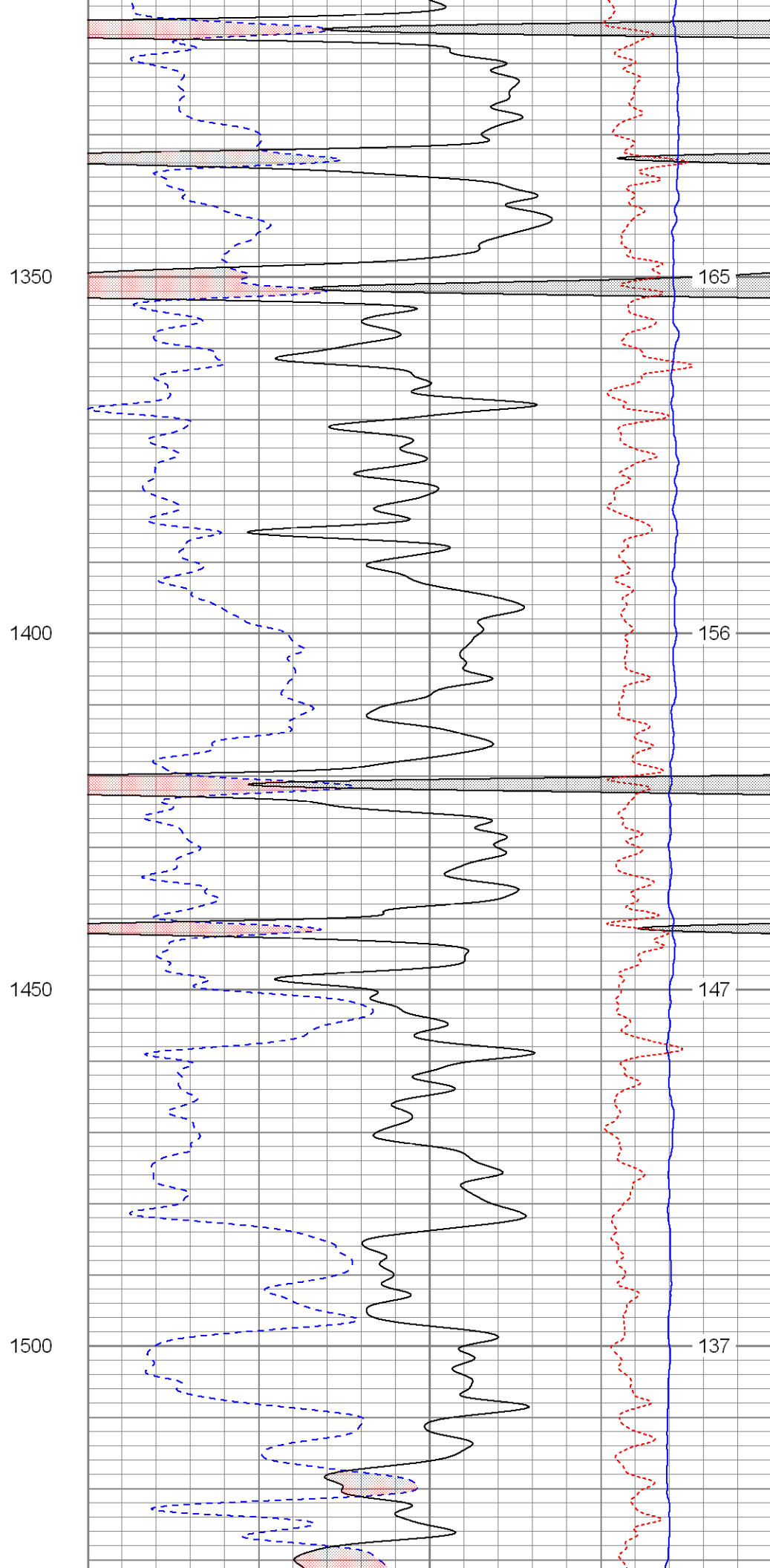
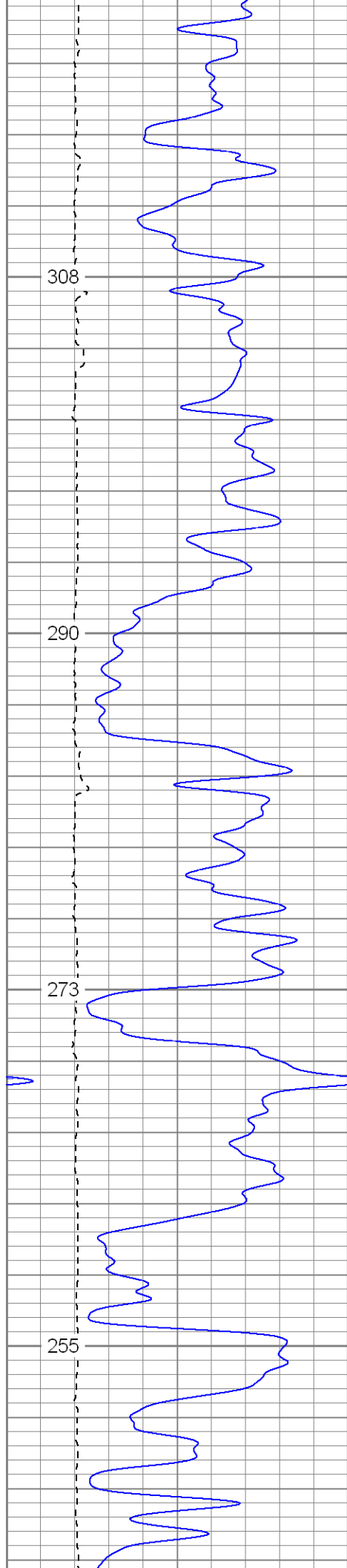
850

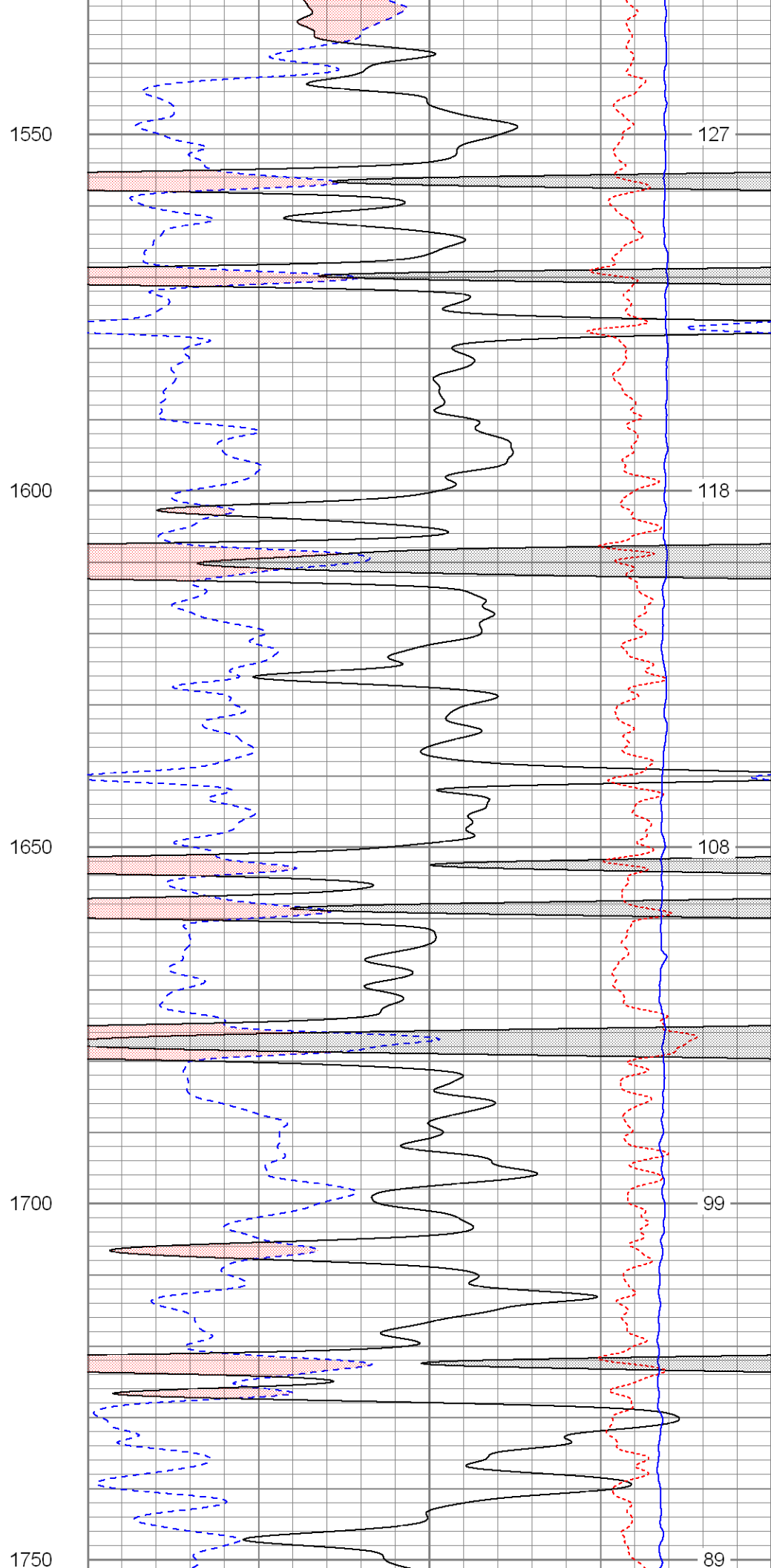
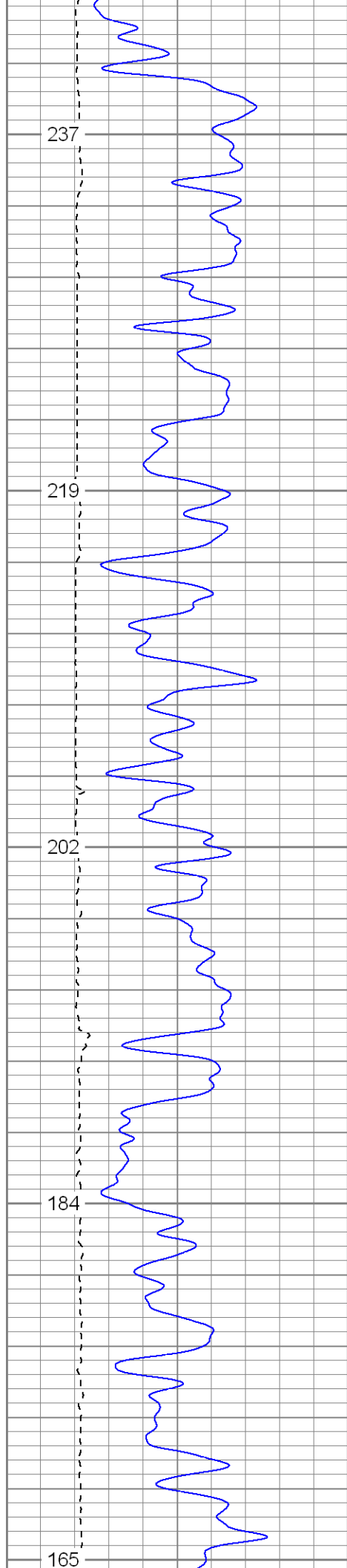
Surface Casing

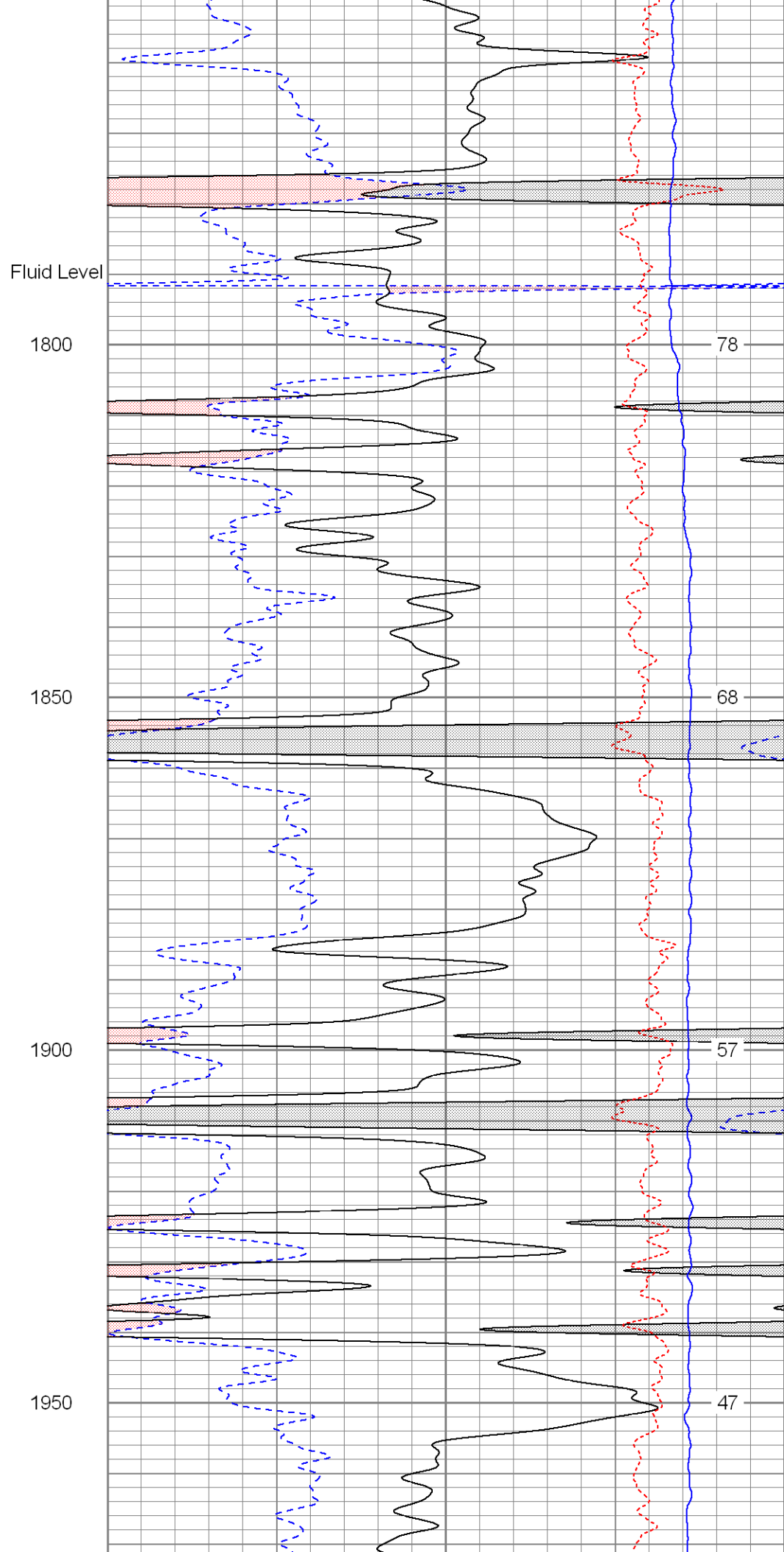
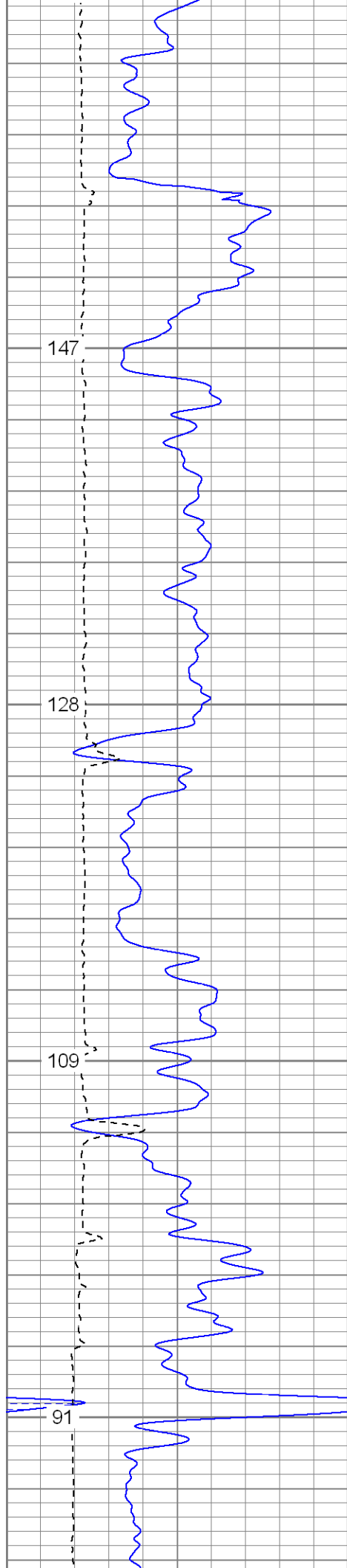


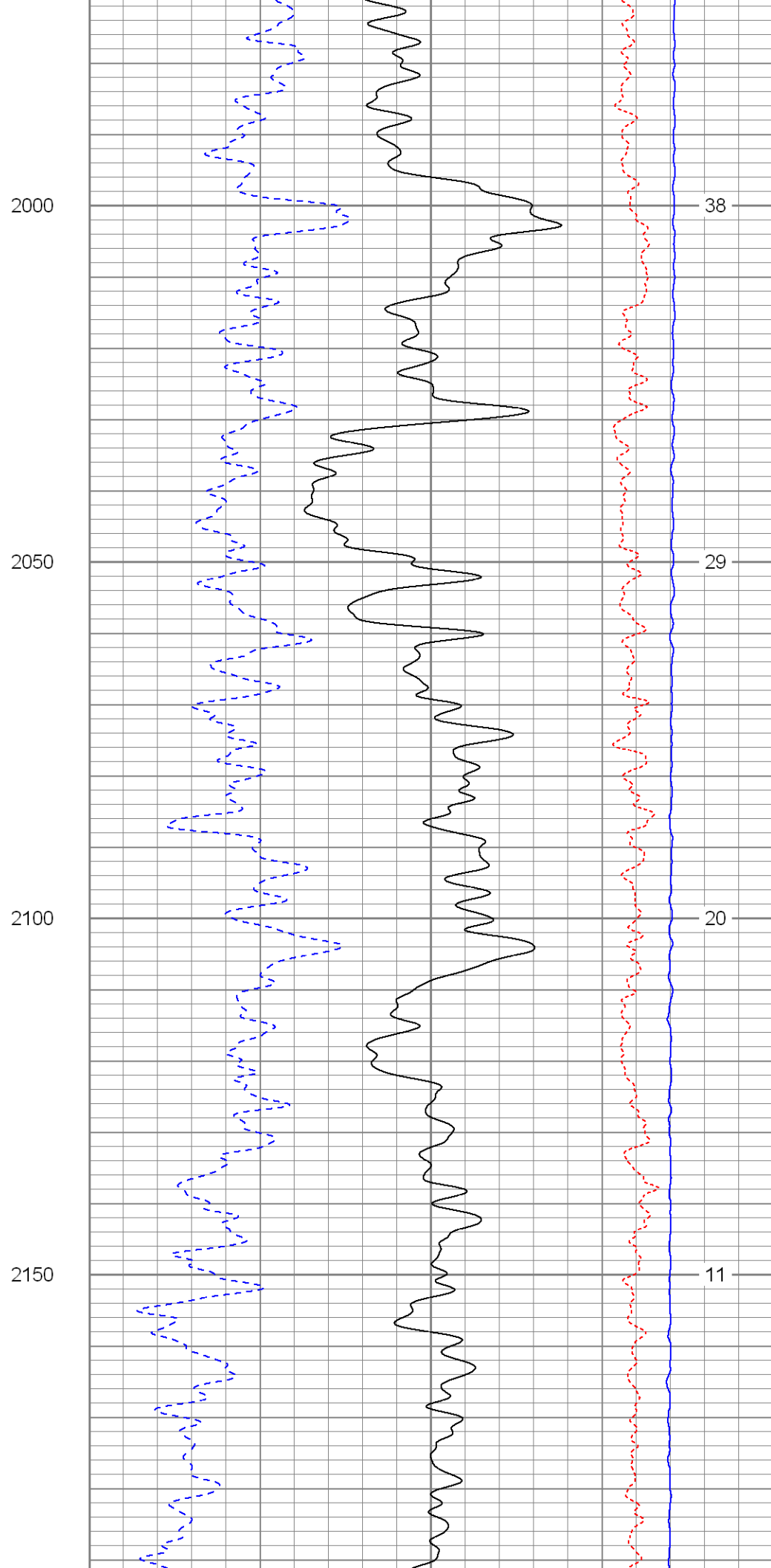
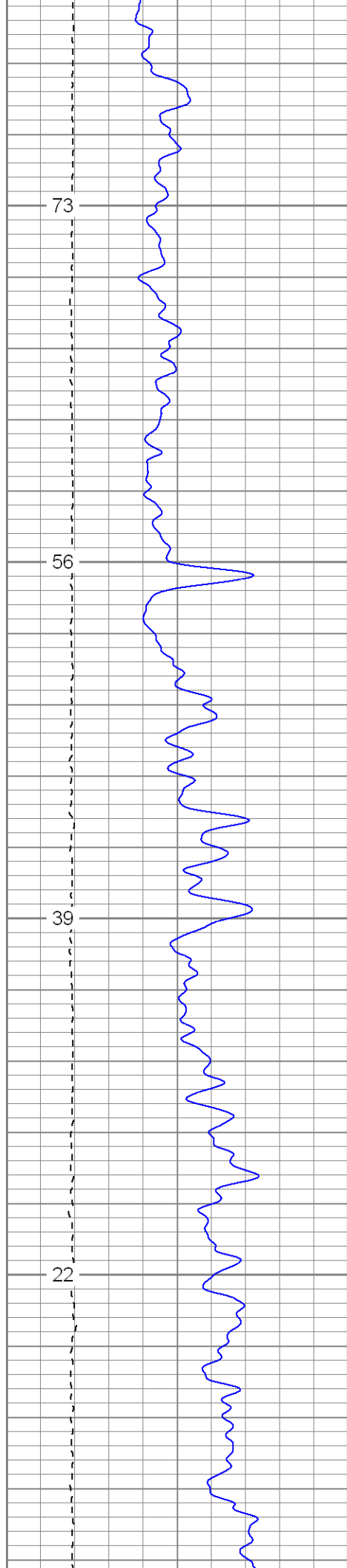


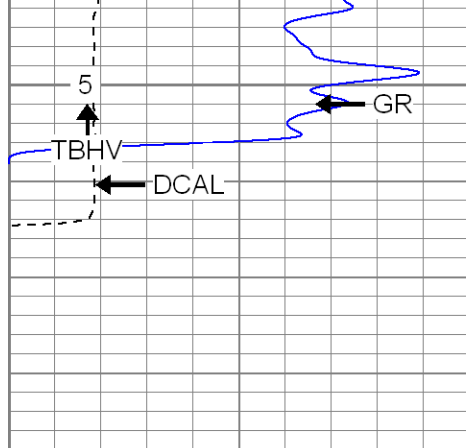






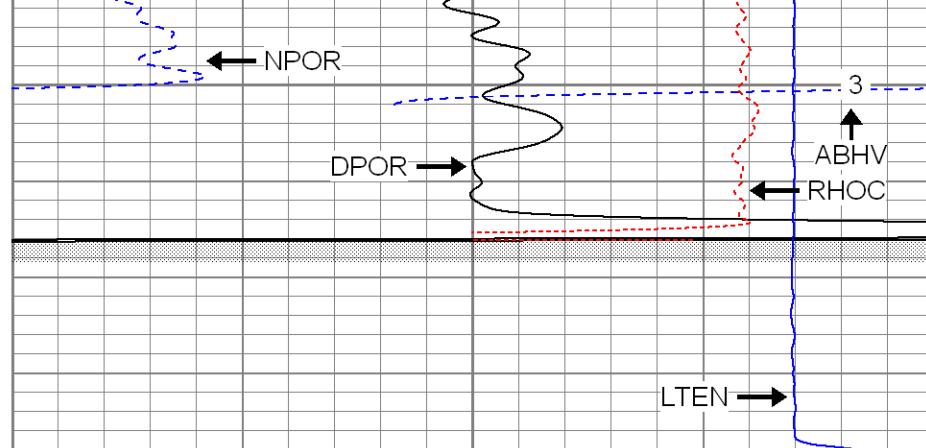






0	GR (GAPI)	200
6	DCAL (in)	16

2200



30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0



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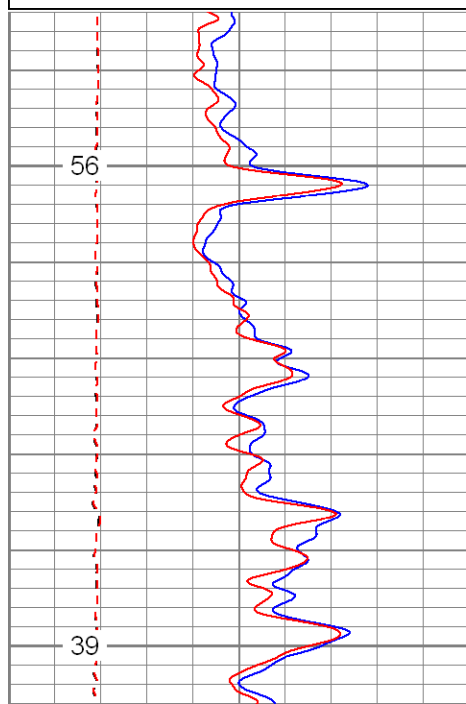
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Repeat Section

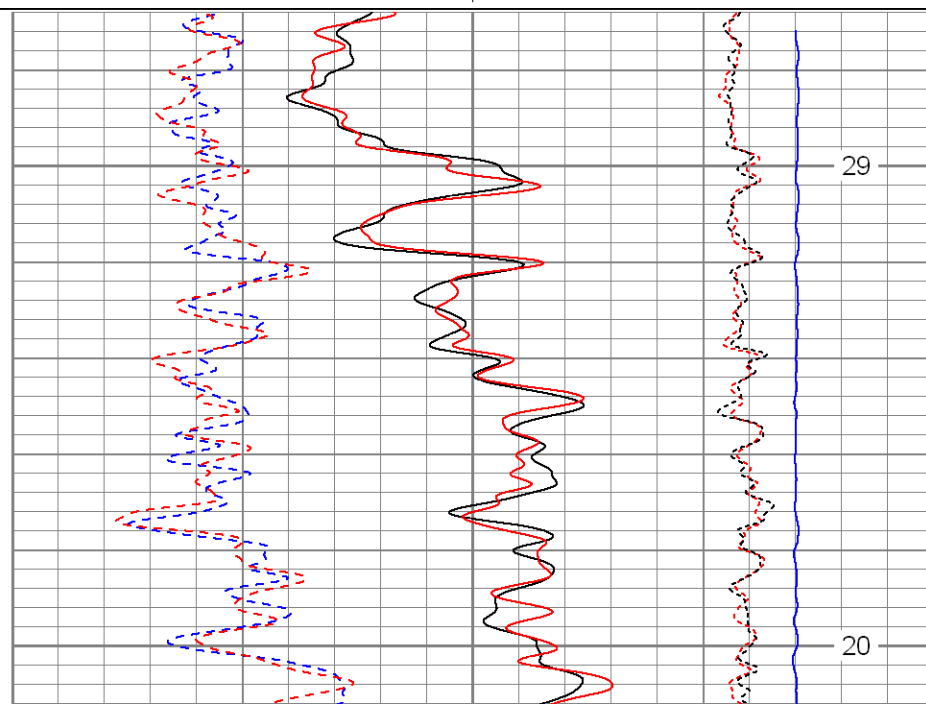
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Dataset Pathname: pass3.1
Presentation Format: cdnl
Dataset Creation: Fri Jul 27 09:26:45 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

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

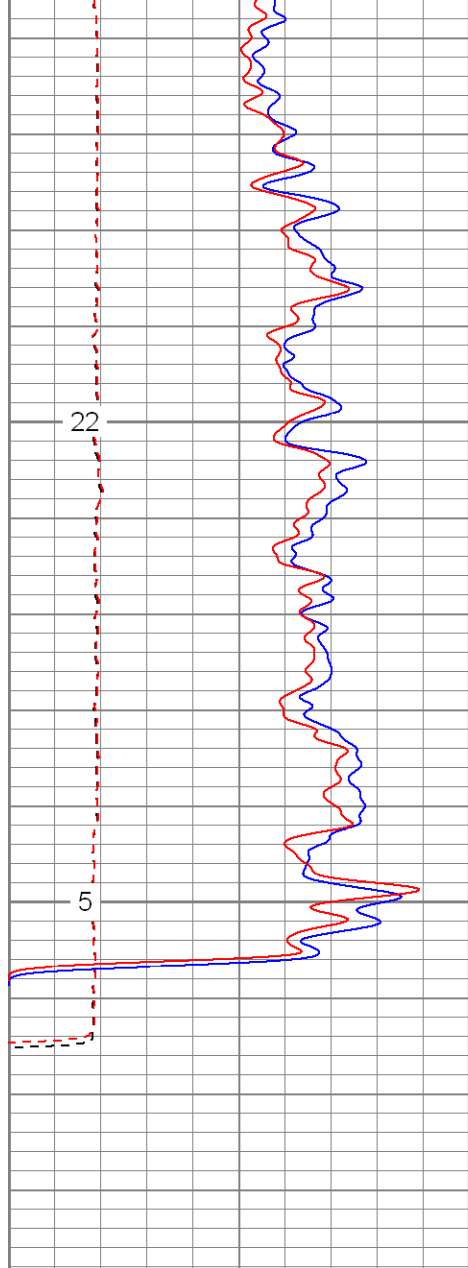
30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5



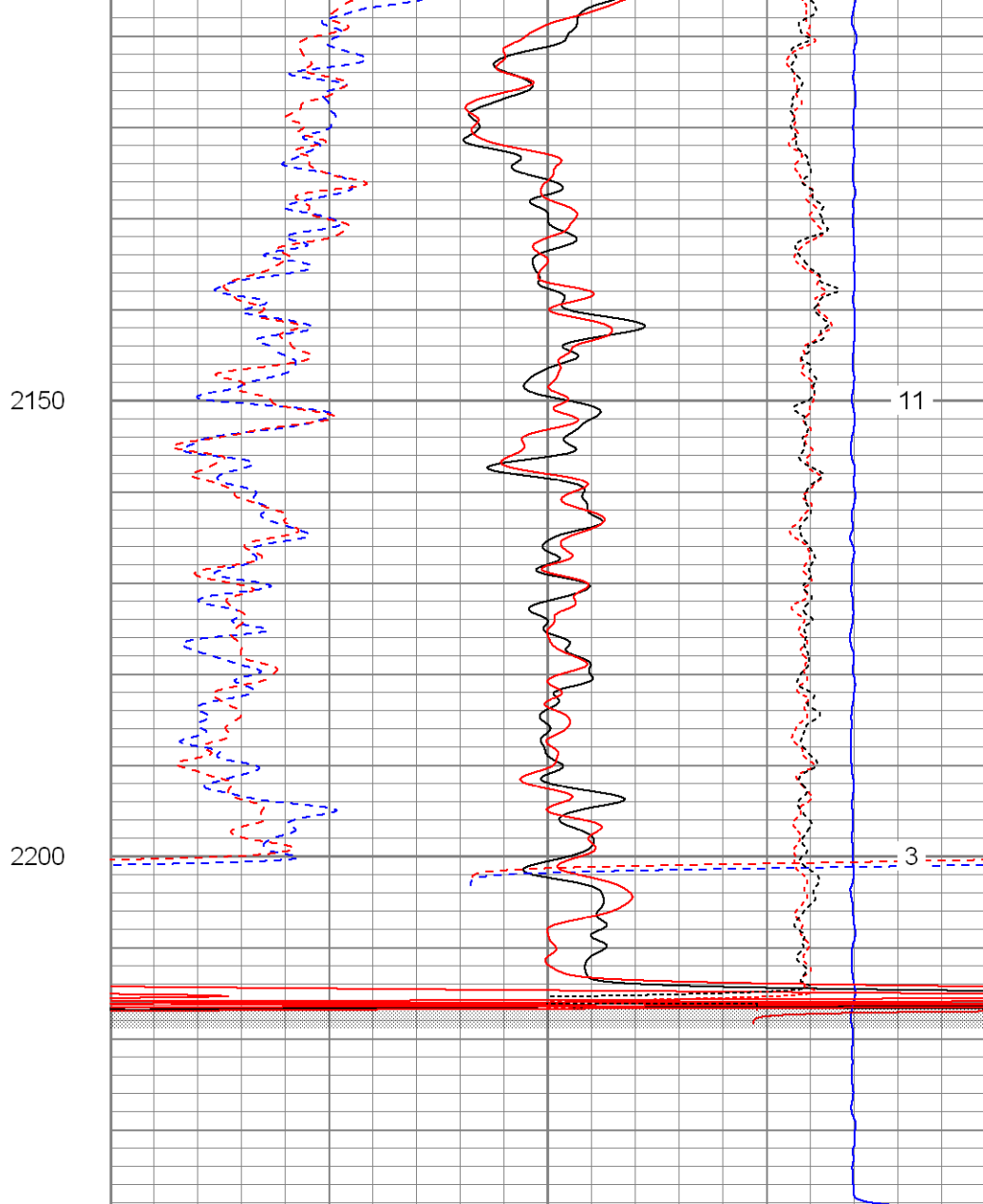
2050



2100



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



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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High Resolution Pass

Database File: xtoge3203.db
Dataset Pathname: pass4.2
Presentation Format: cdlhr
Dataset Creation: Fri Jul 27 09:37:56 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

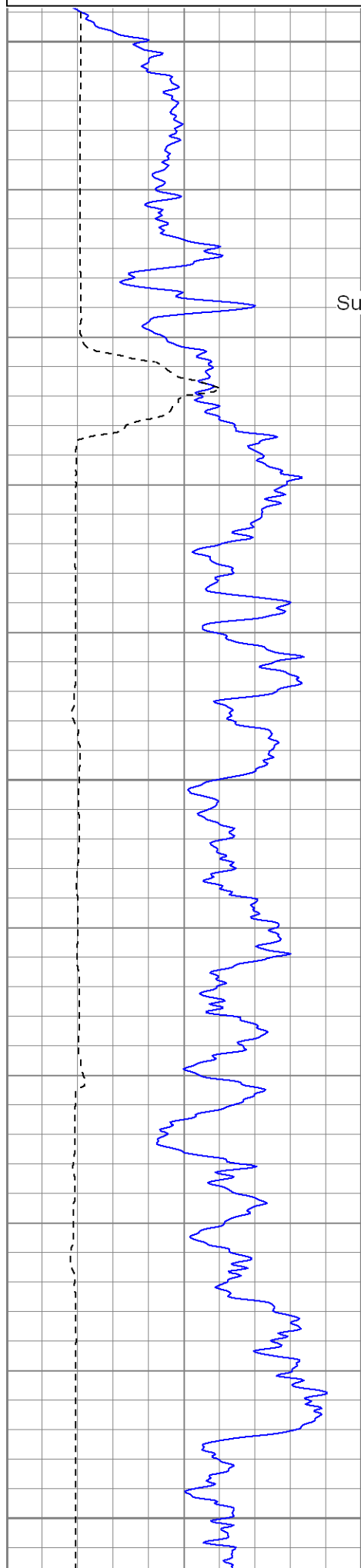
DOAL (m)

10

RMCC (g/cc)

0.5

0.5

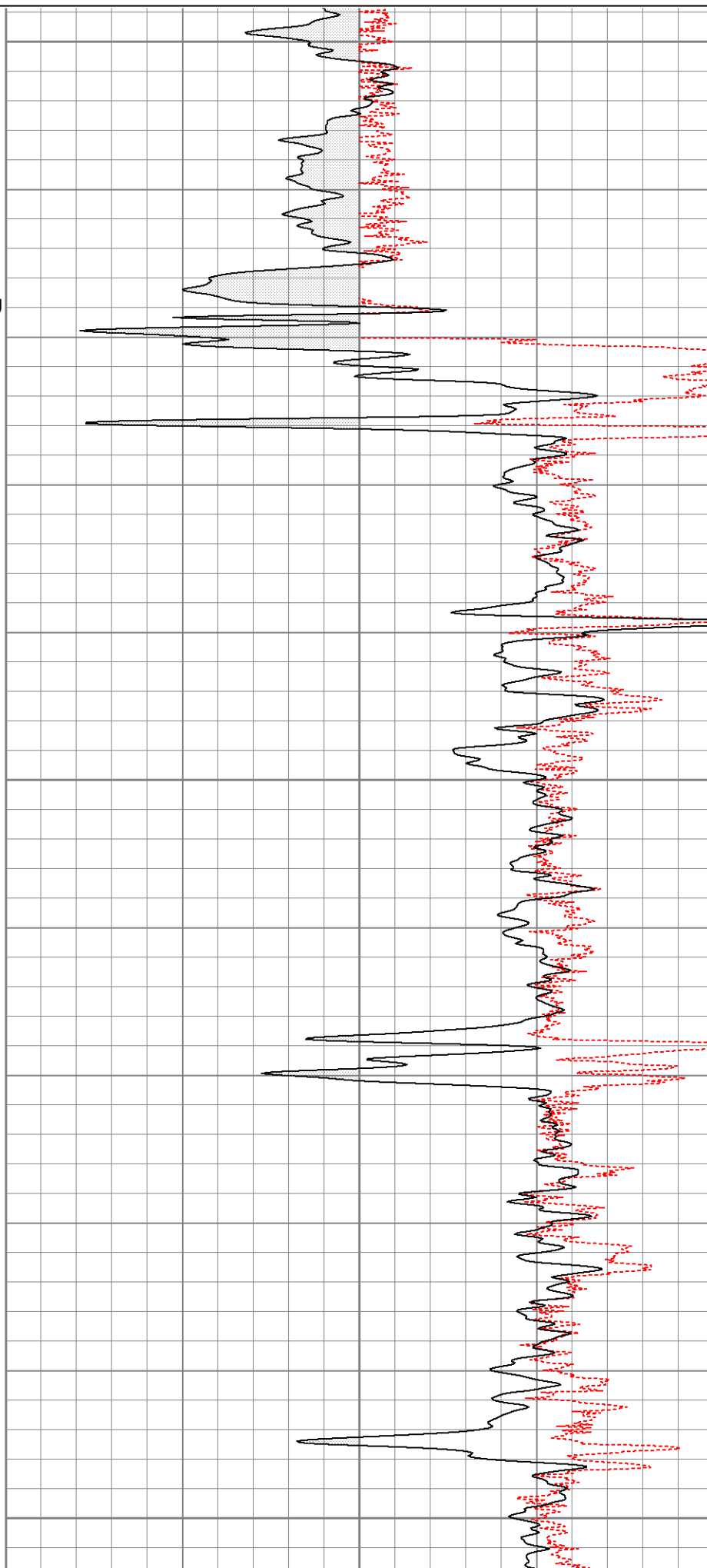


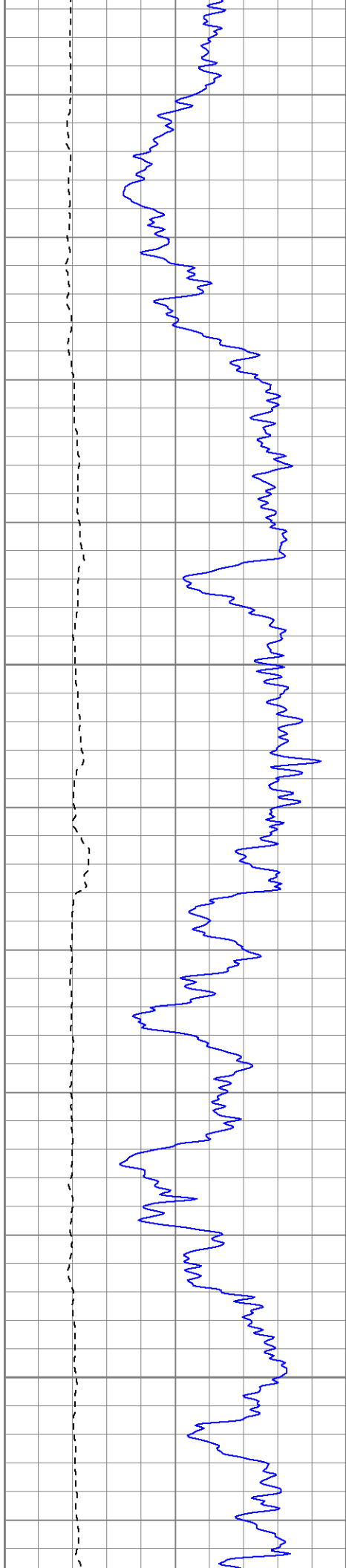
850

Surface Casing

900

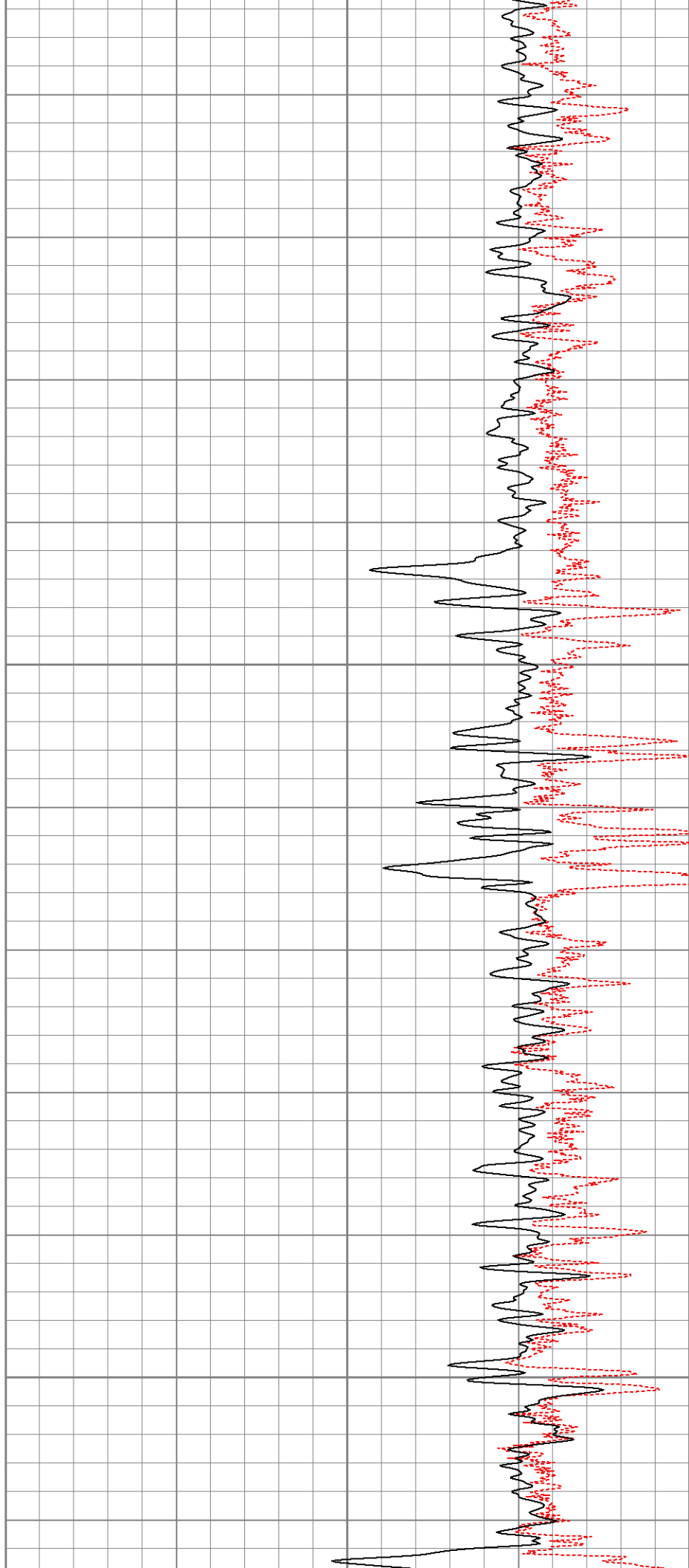
950

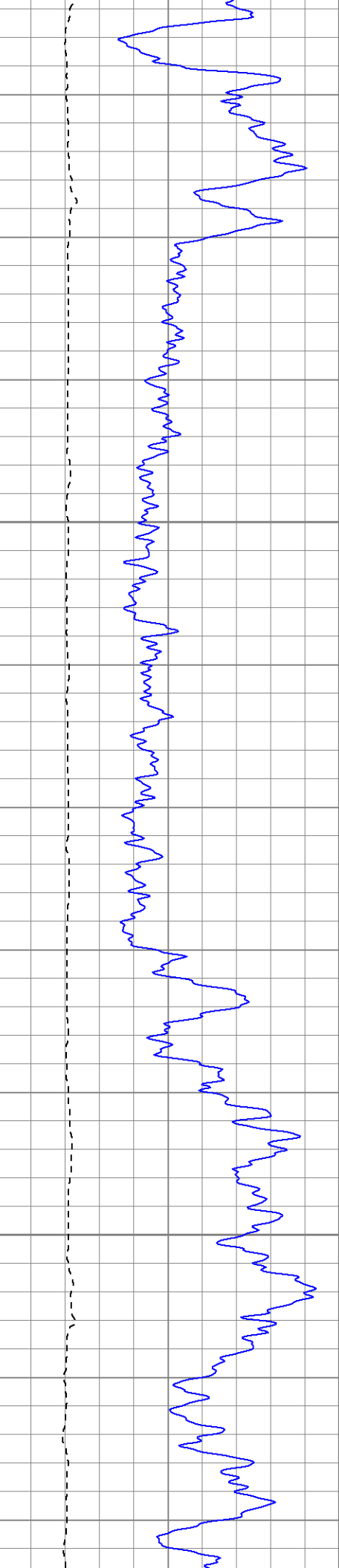




1000

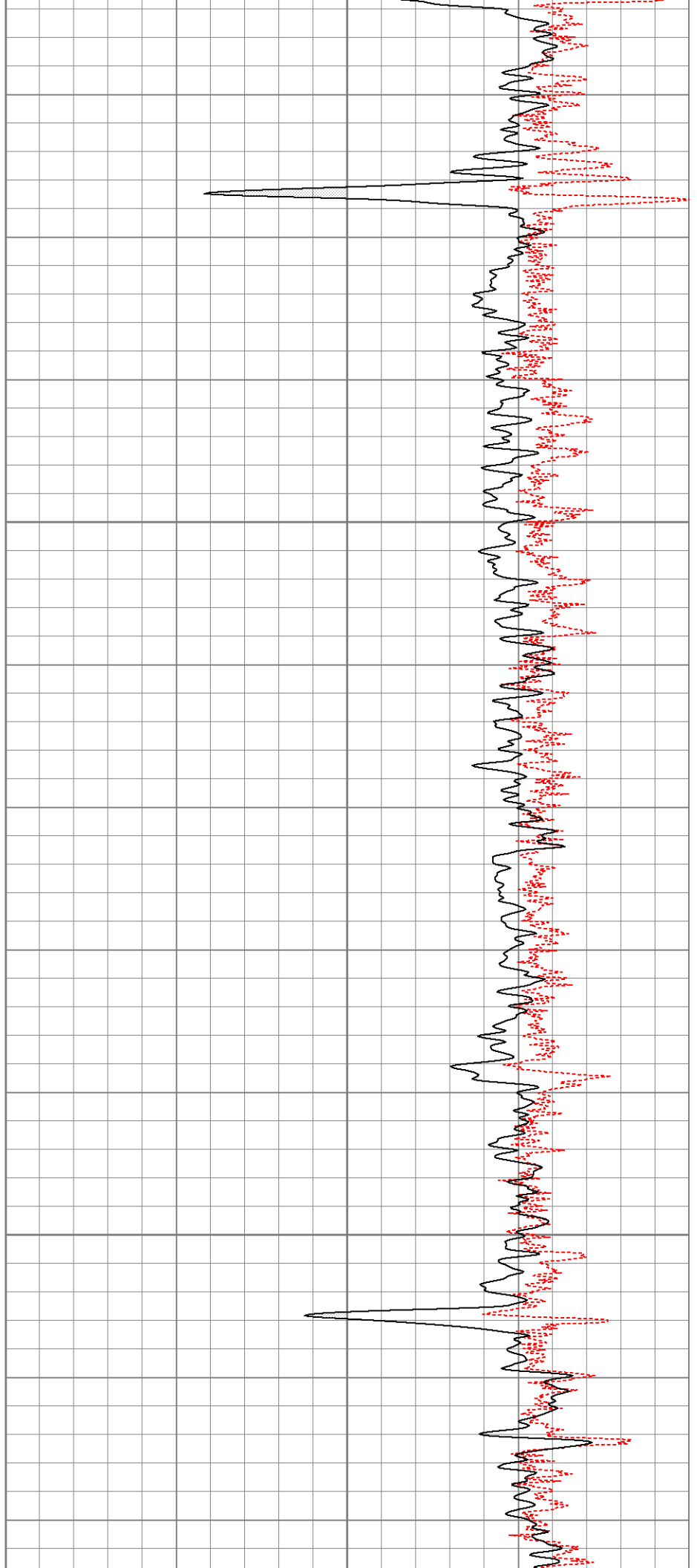
1050

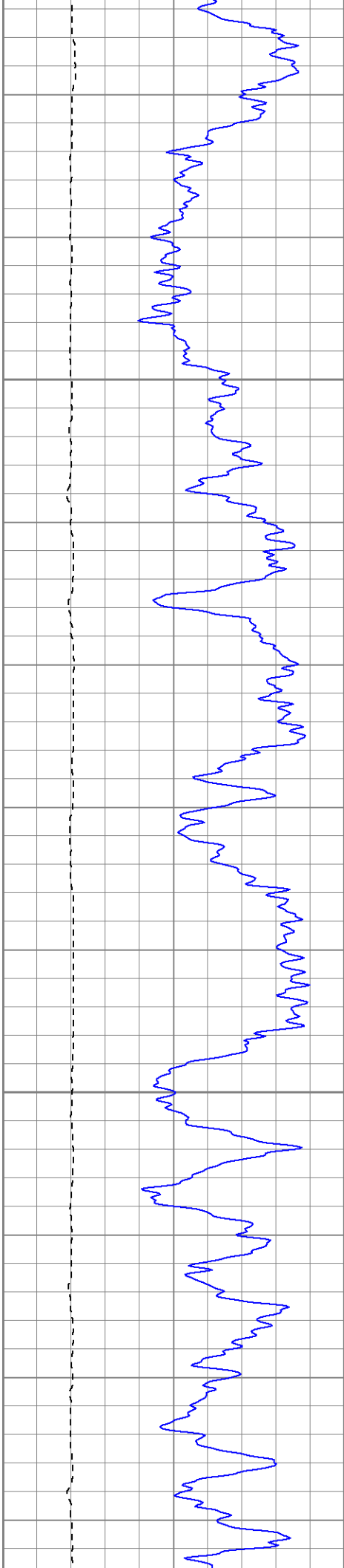




1100

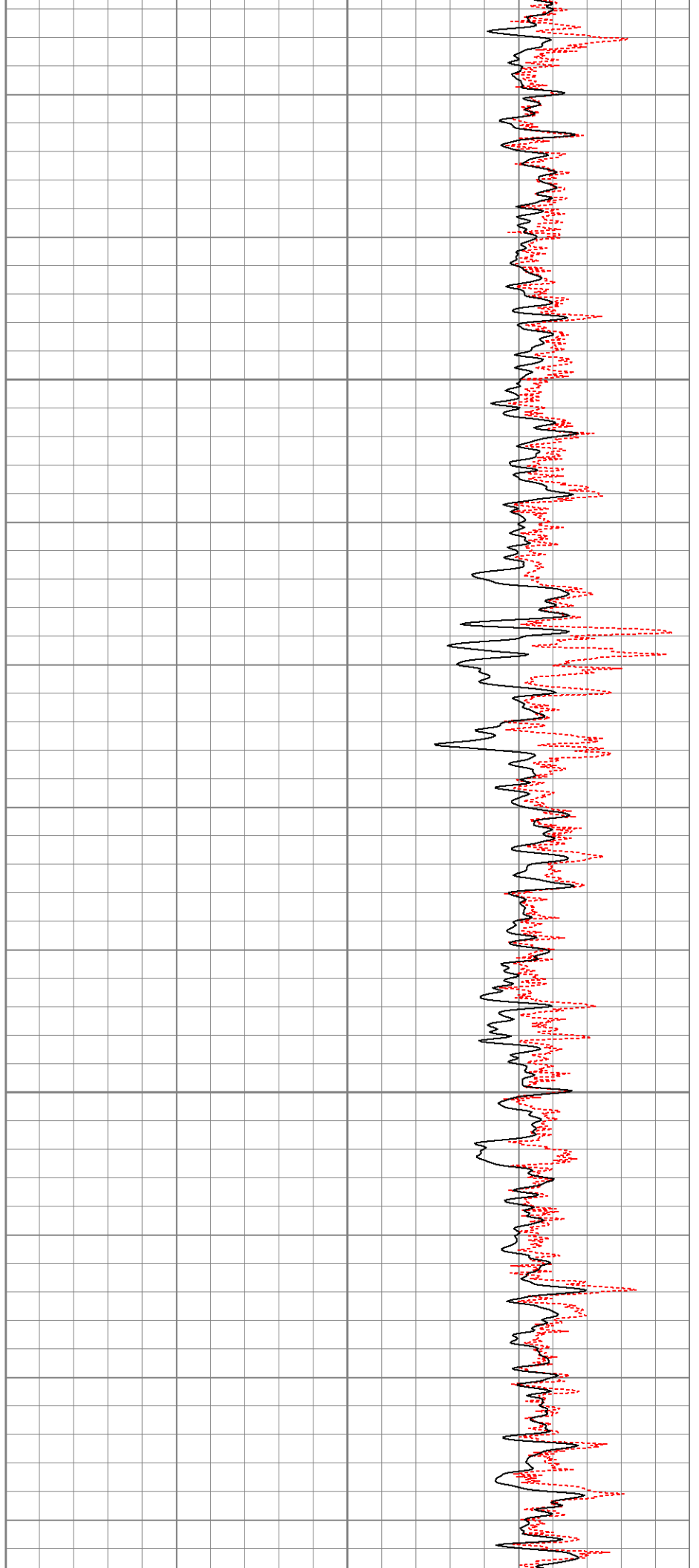
1150

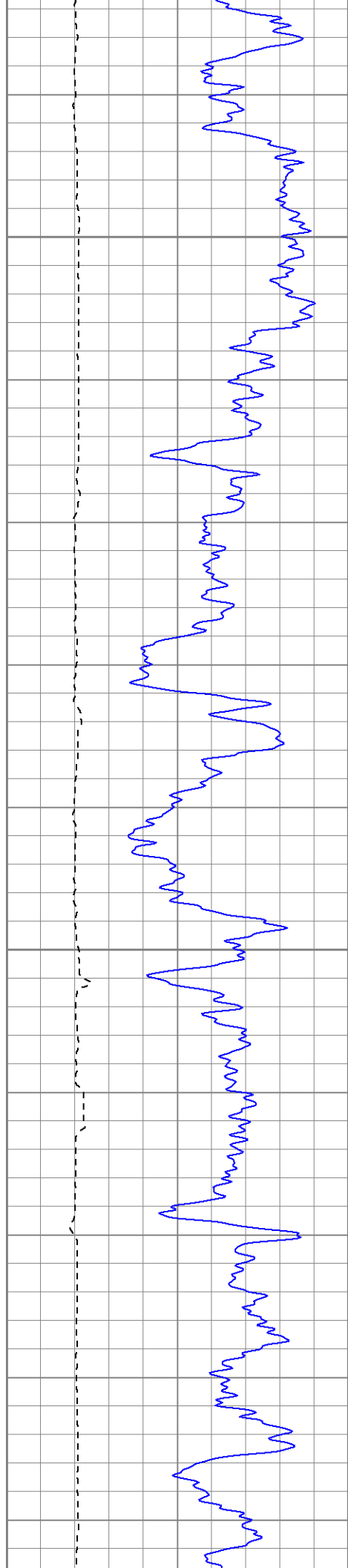




1200

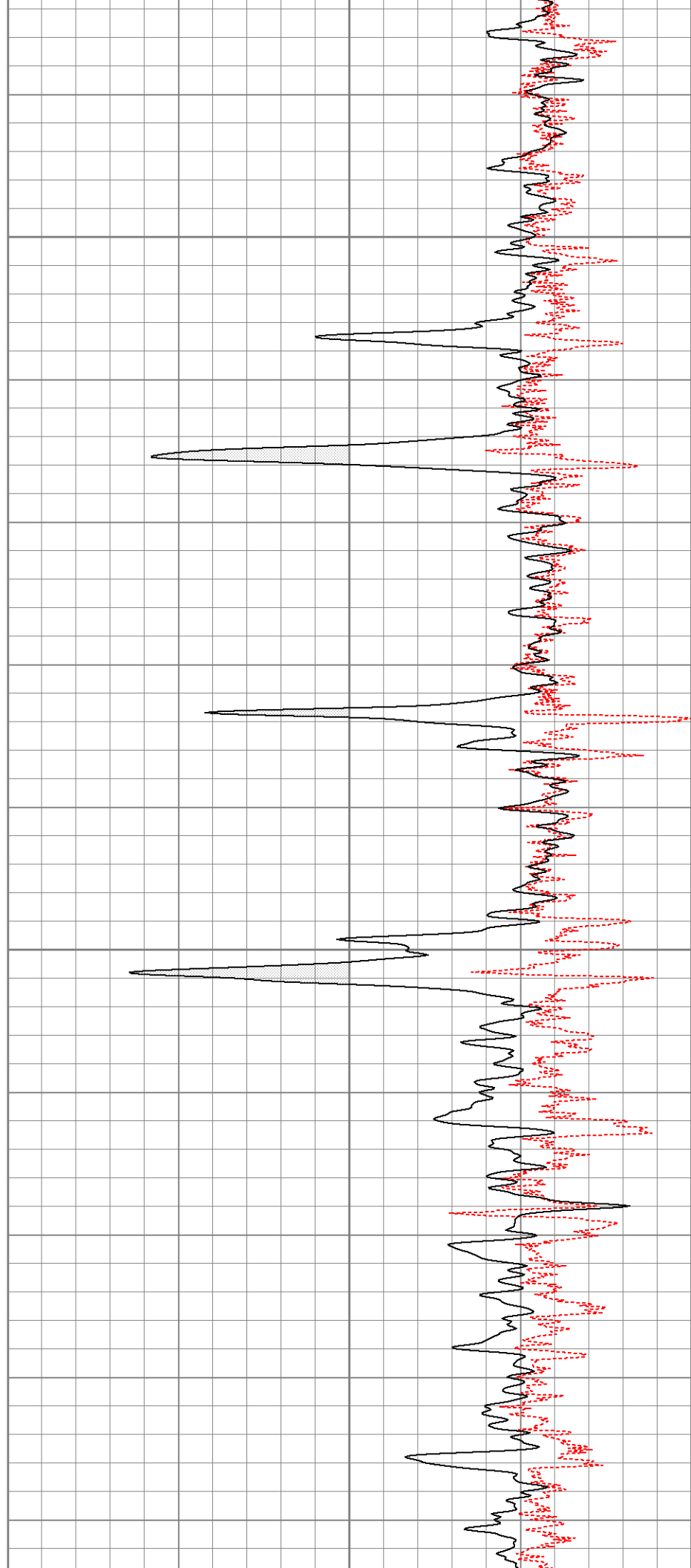
1250

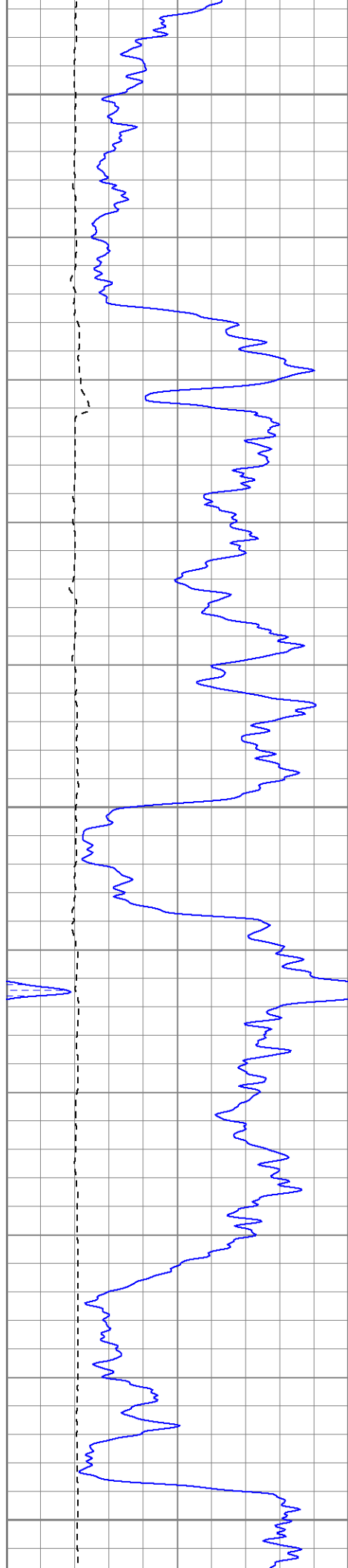




1300

1350

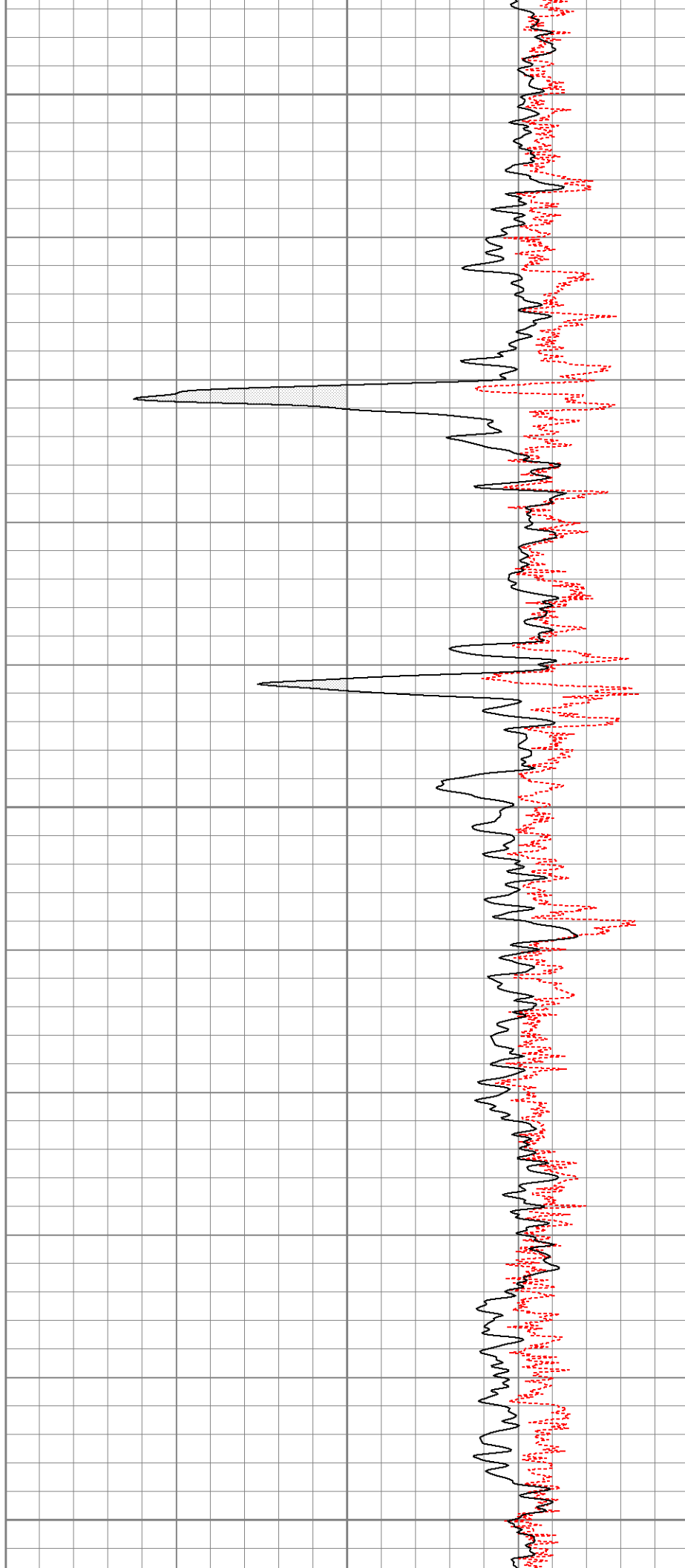


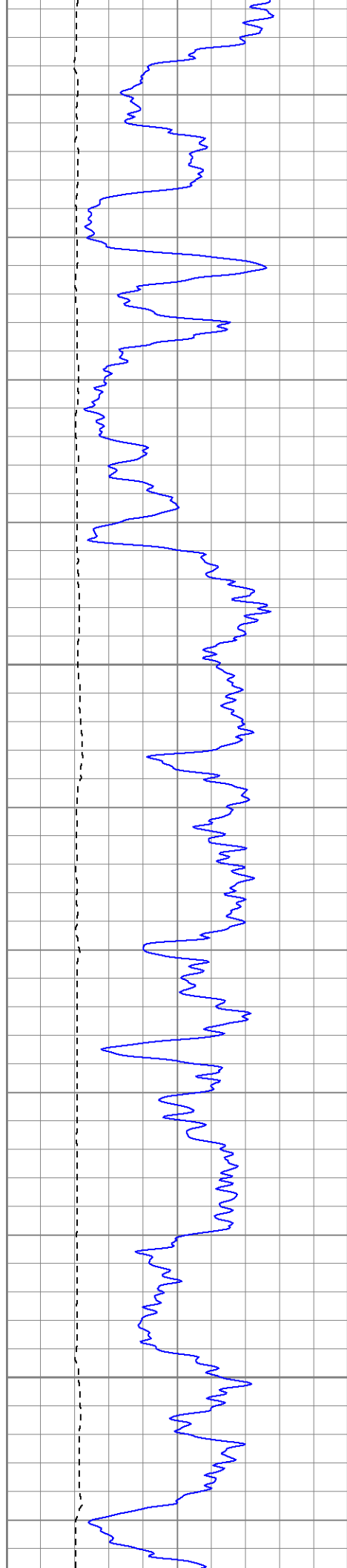


1400

1450

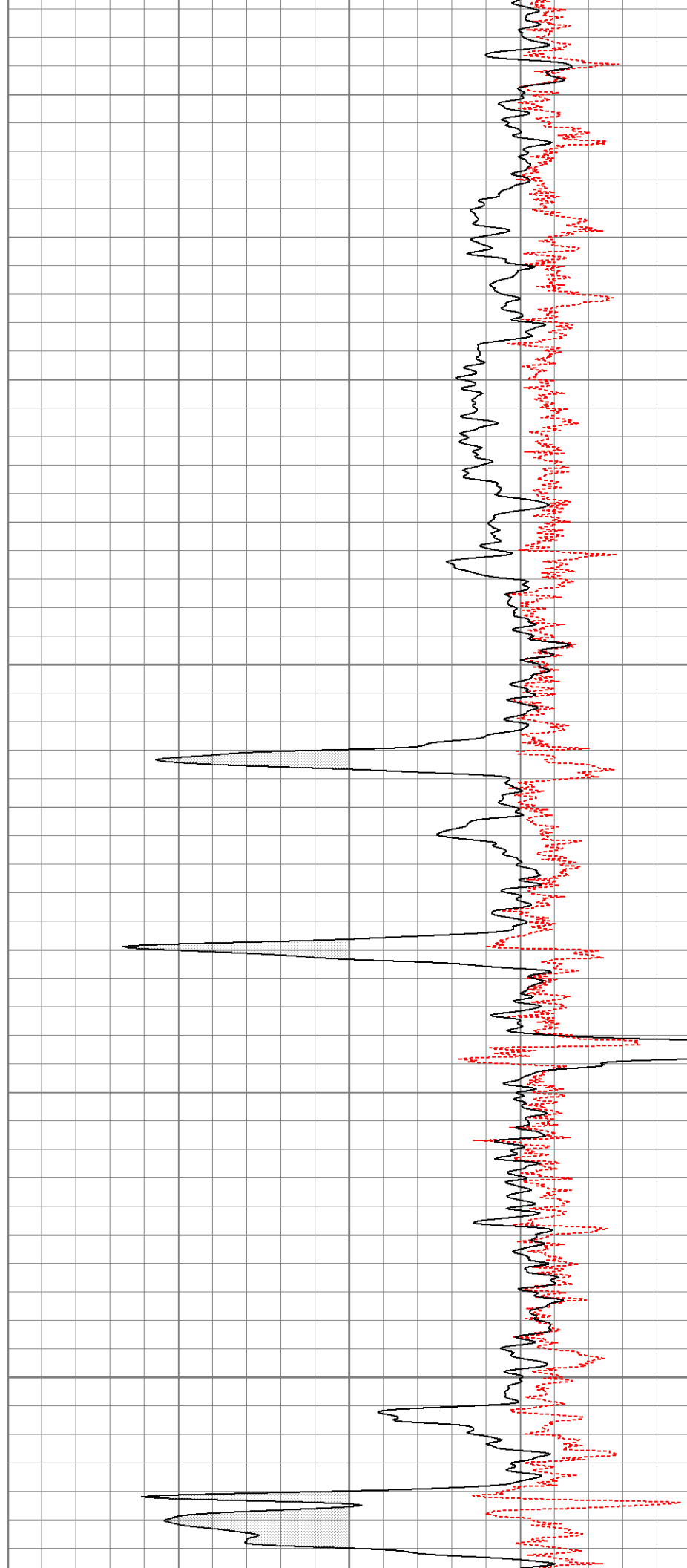
1500

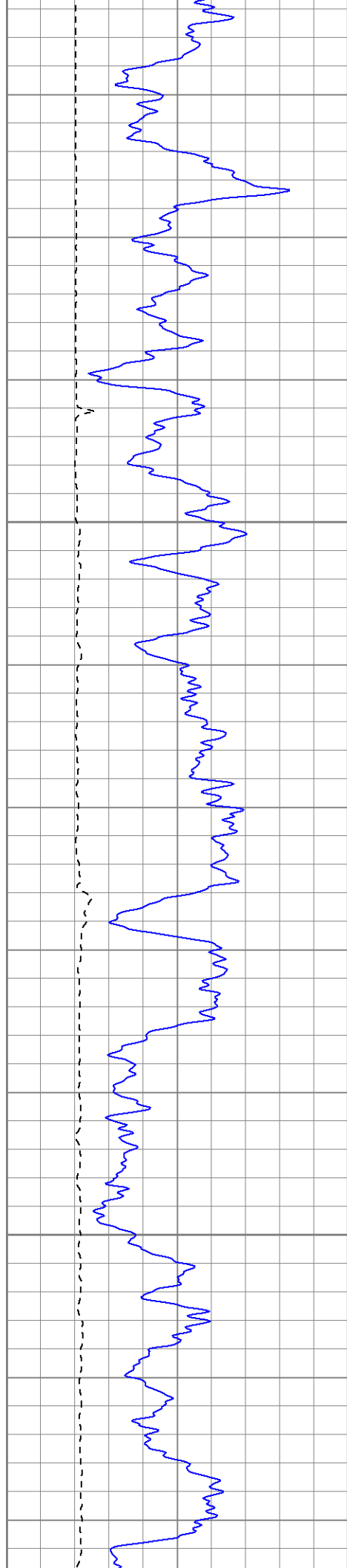




1550

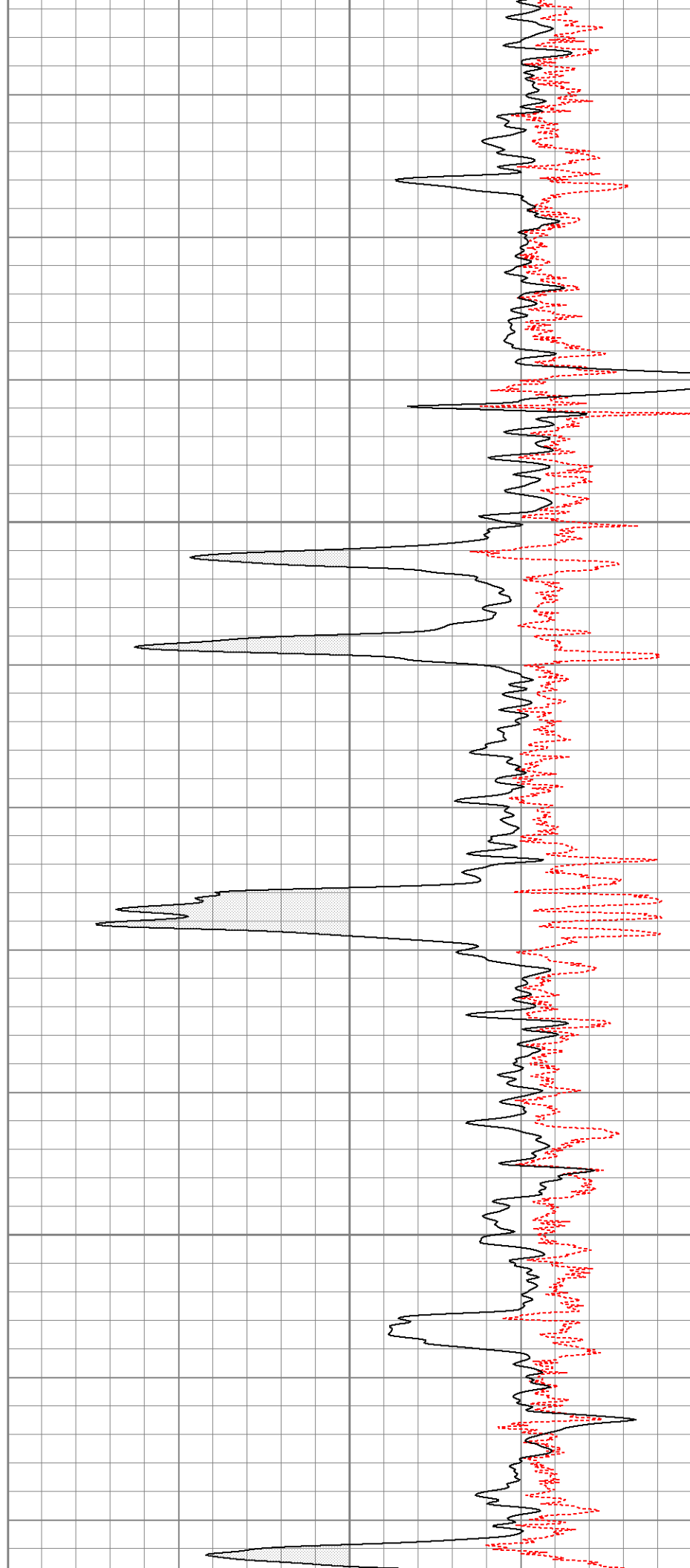
1600

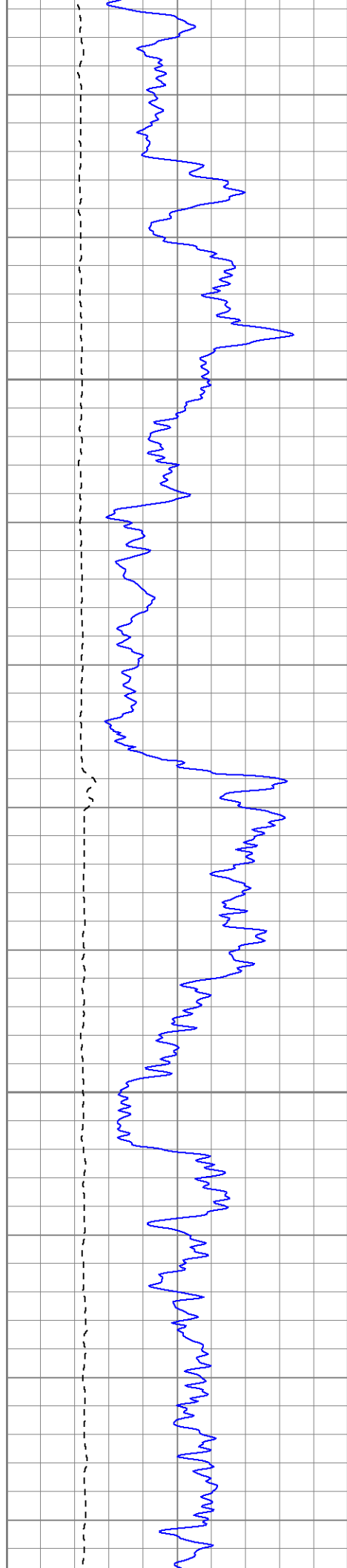




1650

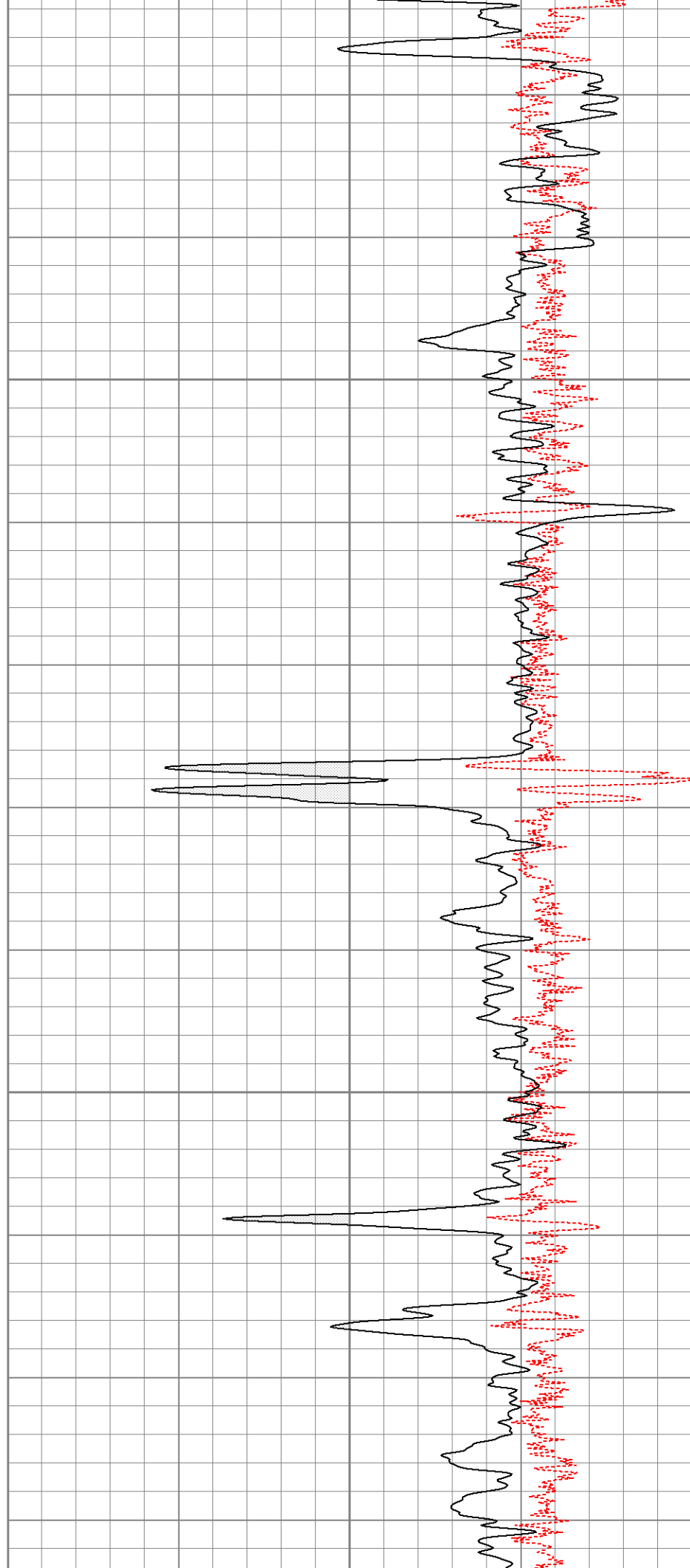
1700





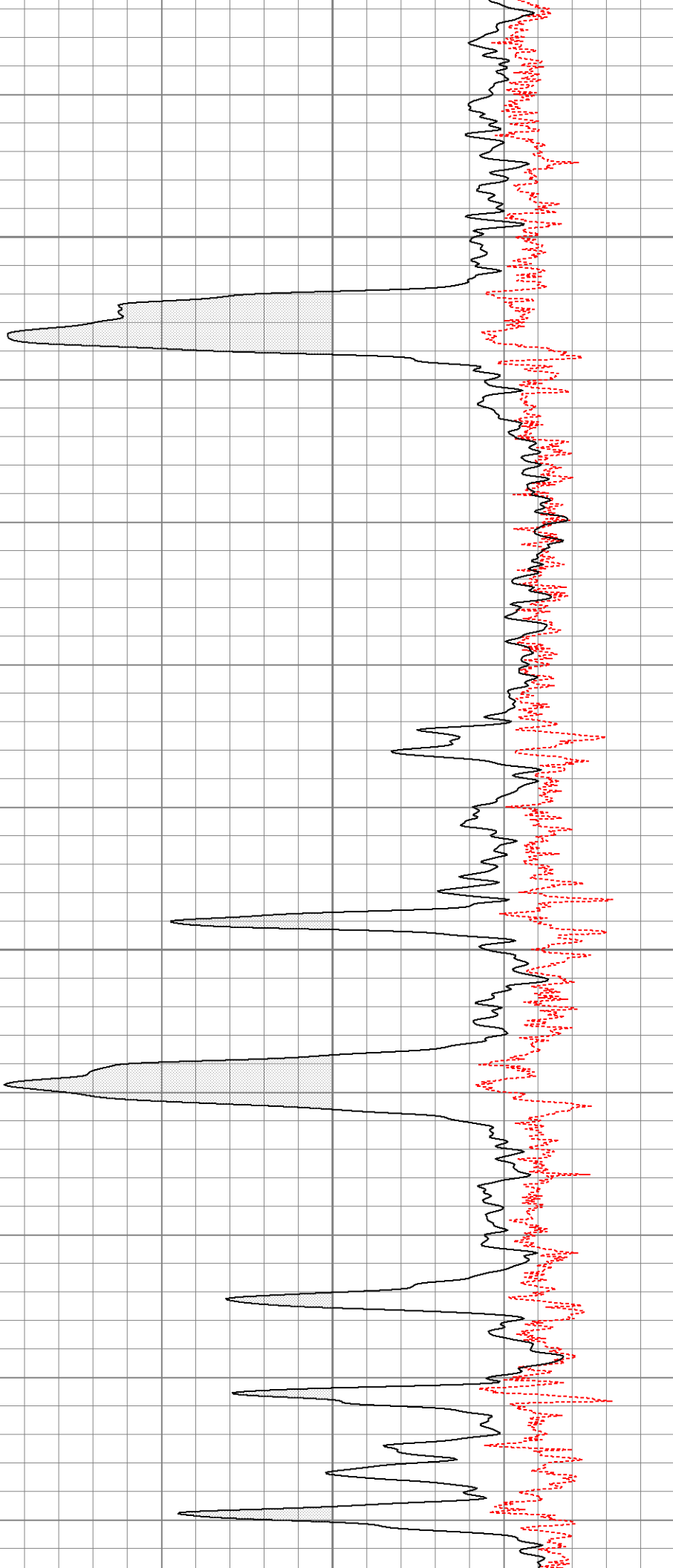
1750

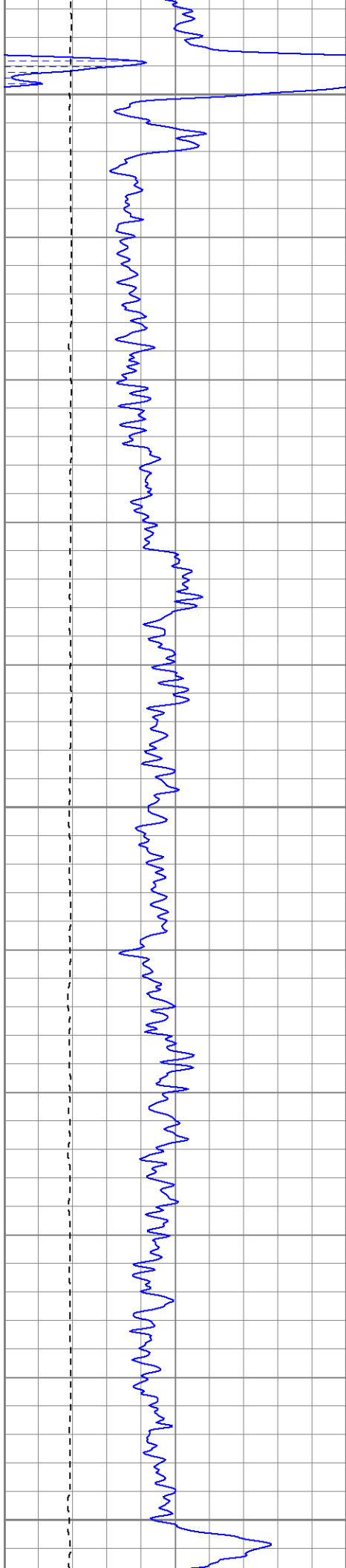
1800



1850

1900

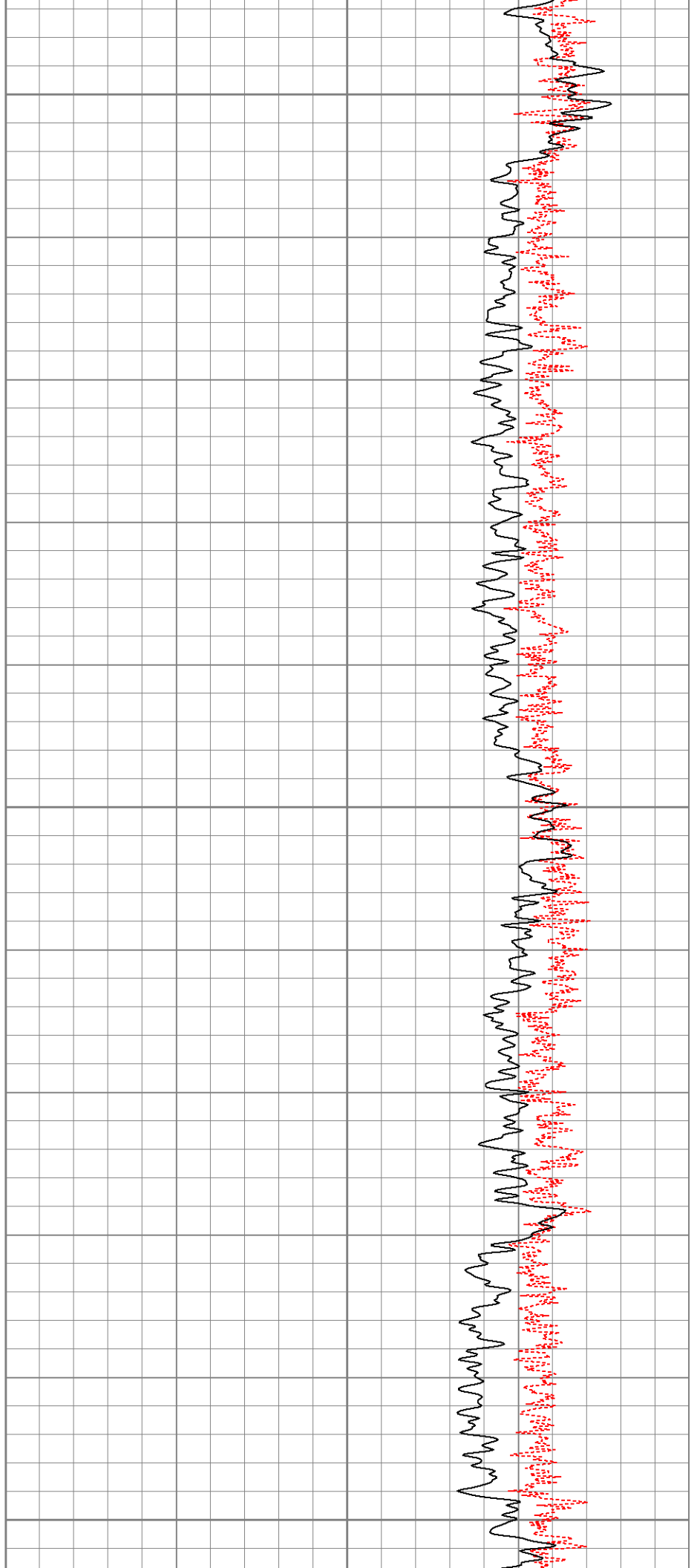


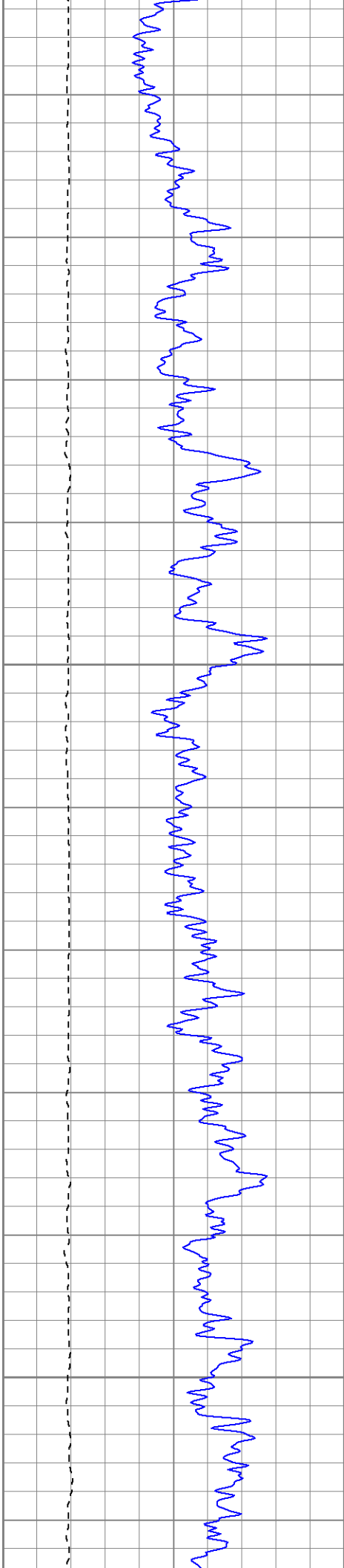


1950

2000

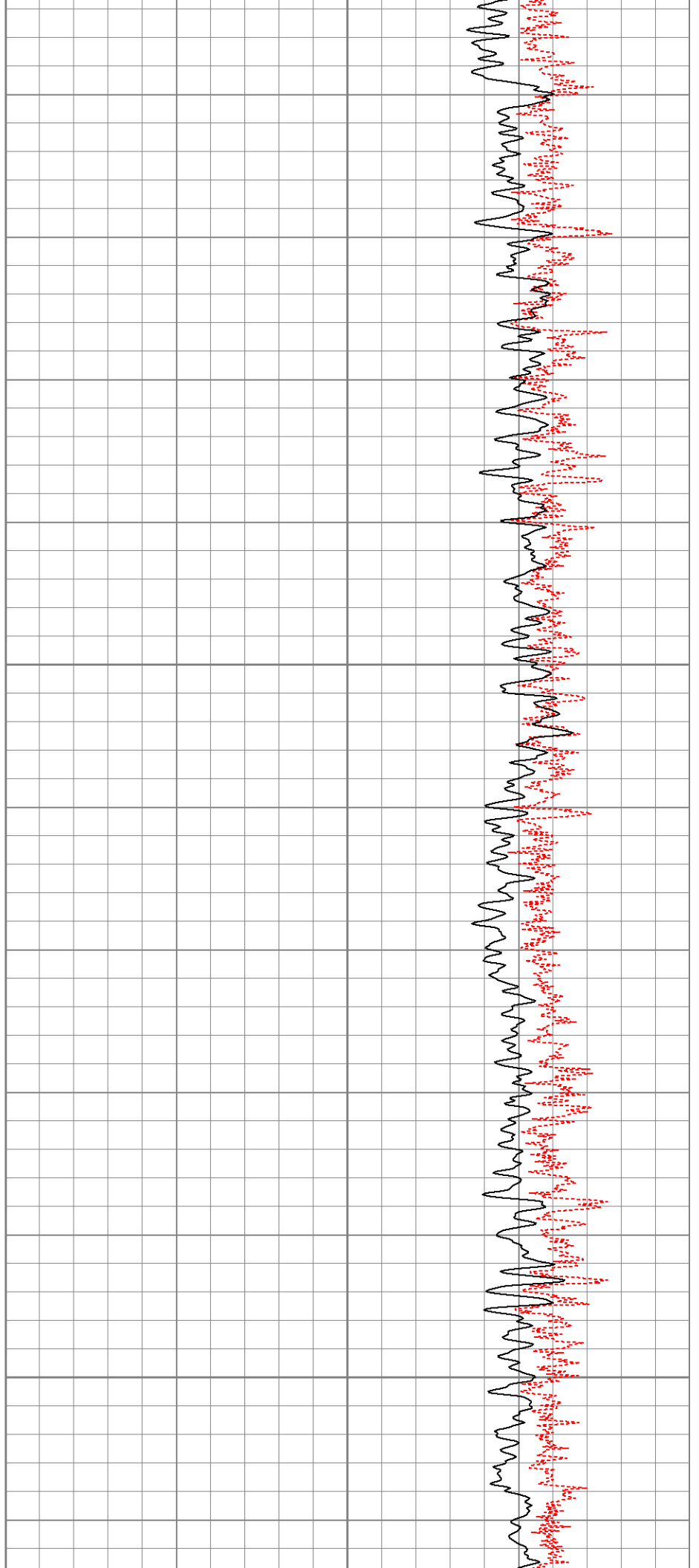
2050

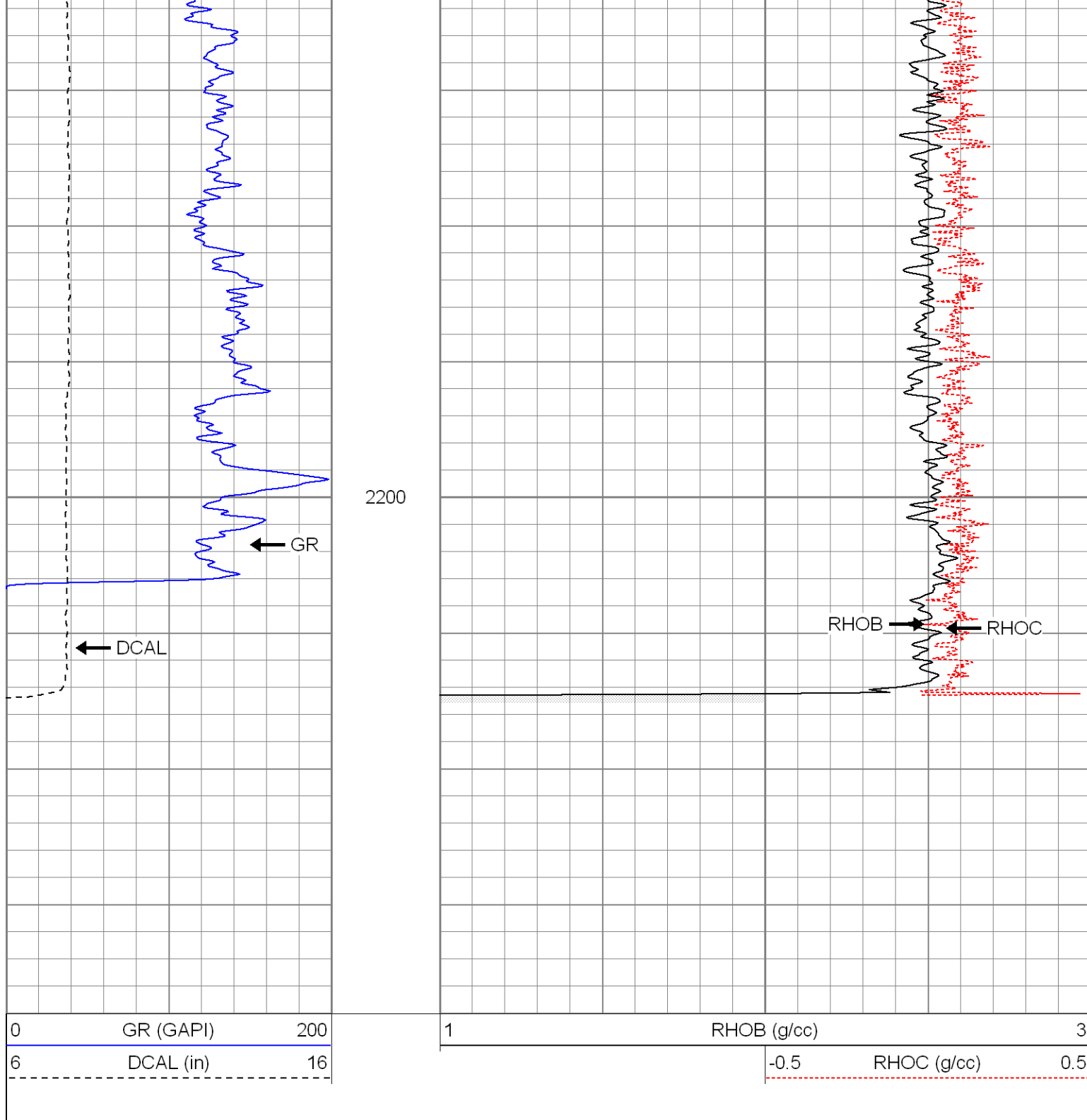




2100

2150





Calibration Report

Database File: xtoge3203.db
Dataset Pathname: pass2
Dataset Creation: Wed Jul 25 20:21:20 2007 by Log Open-Cased 061129

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Thu Jul 05 11:35:02 2007
Downhole Cal Performed: Thu Jul 05 11:35:16 2007

Surface Calibration

Readings

References

Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.620	V	0.000	500.000	mmho-m	807.659	-1.119
Medium	0.005	0.743	V	0.000	550.000	mmho-m	744.727	-3.505
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.620	V	0.000	500.000	mmho-m	807.698	-1.159
Medium	0.005	0.743	V	0.000	550.000	mmho-m	744.801	-3.569

Downhole Calibration								
	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.123	499.901	mmho-m	0.039	500.015	mmho-m	1.000	-0.084
Medium	0.245	549.982	mmho-m	0.064	550.009	mmho-m	1.000	-0.182
Shallow	2.506	0.009	V	500.000	2.000	Ohm-m	100.000	0.000

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Compensated Density Calibration Report
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Serial-Model:	2118-poilex
Source / Verifier:	/
Master Calibration Performed:	Wed Jul 11 09:42:26 2007

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		665.94	685.05	cps
Aluminum	2.590	g/cc		149.68	463.33	cps
Spine Angle = 75.32			Density/Spine Ratio = 0.570			
	Size			Reading		
Small Ring	7.85	in		4.25	V	
Large Ring	14.00	in		8.50	V	

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Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Tue Jul 10 07:42:35 2007	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.1100	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	37.19		None	0.75	1.50	5.00	
			NEU-G (5145) Gearhart Epithermal	5.75	3.50	85.00	
GR	31.62		GR-OH (2001) SIE	3.50	3.25	40.00	
LSD DCAL SSD	23.45 23.04 22.91		CDL-poilex (2118)	8.79	4.00	275.00	
	CILD SP		10.60 10.60	DIL-G (5375) Gearhart	20.83	4.00	345.00
			CILM	6.89			
RLL3	1.70						
Dataset: xtoge3203.db: field/well/run1/pass2							
Total Length: 39.62 ft							
Total Weight: 750.00 lb							
O.D. 4.00 in							