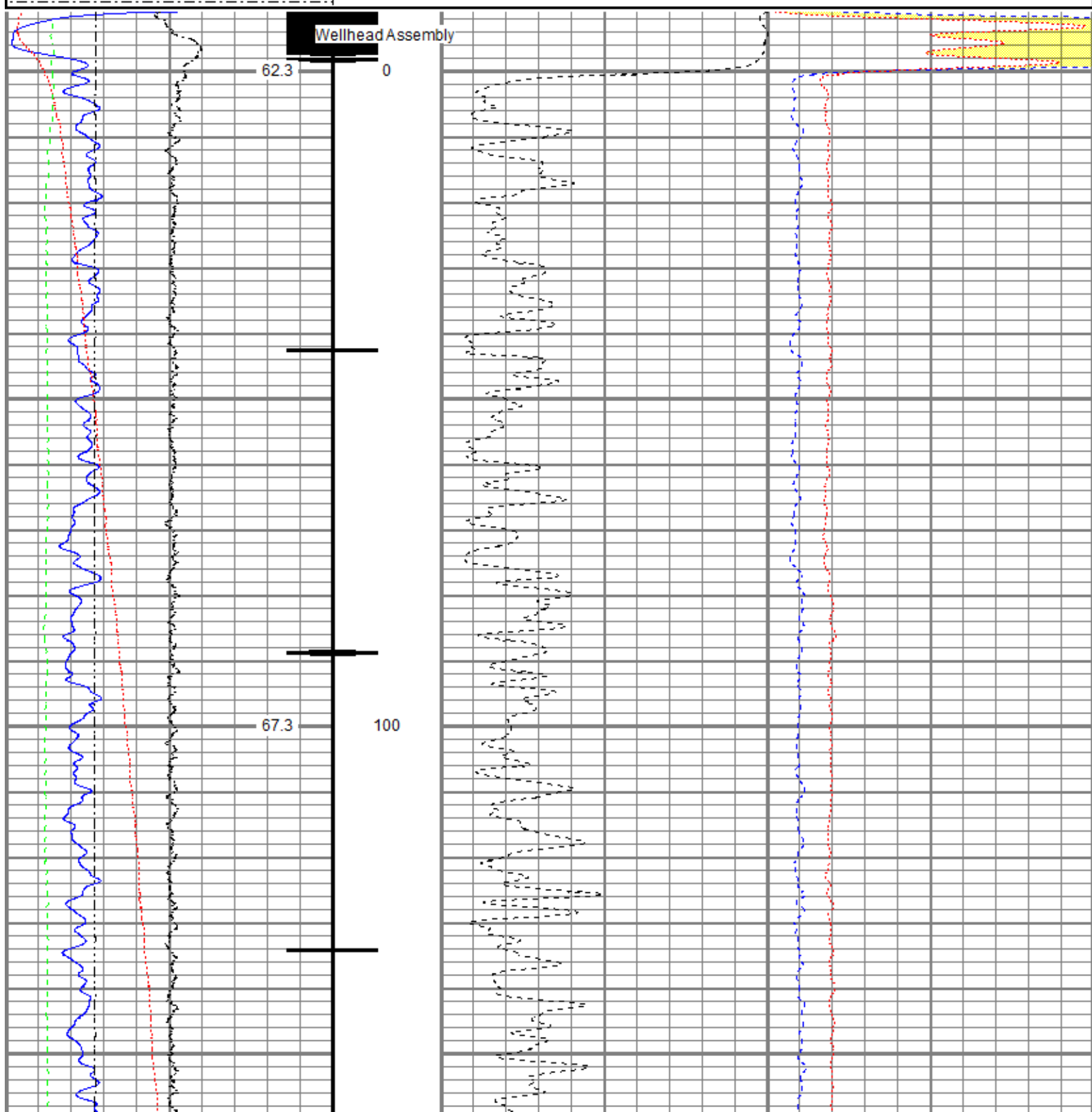


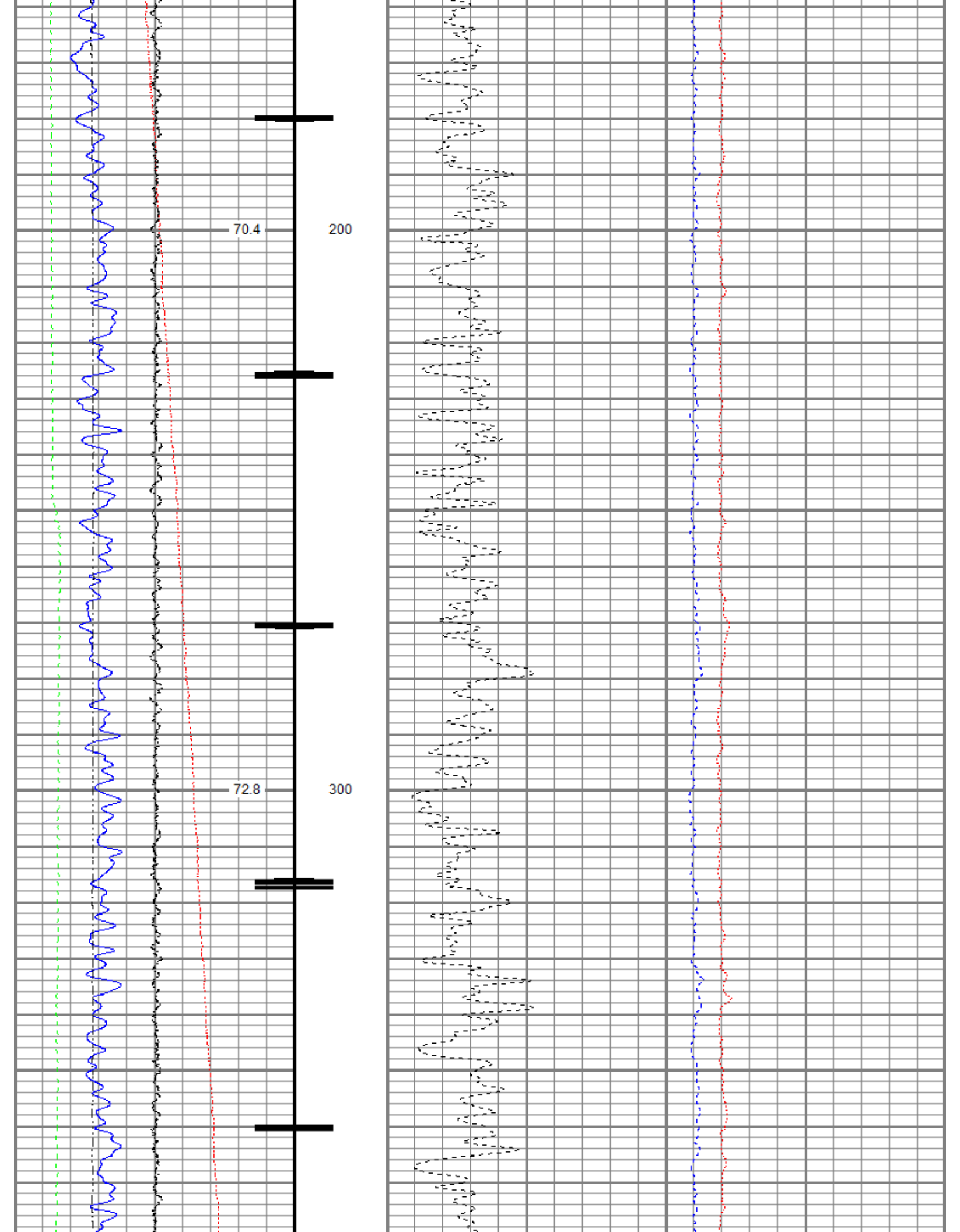


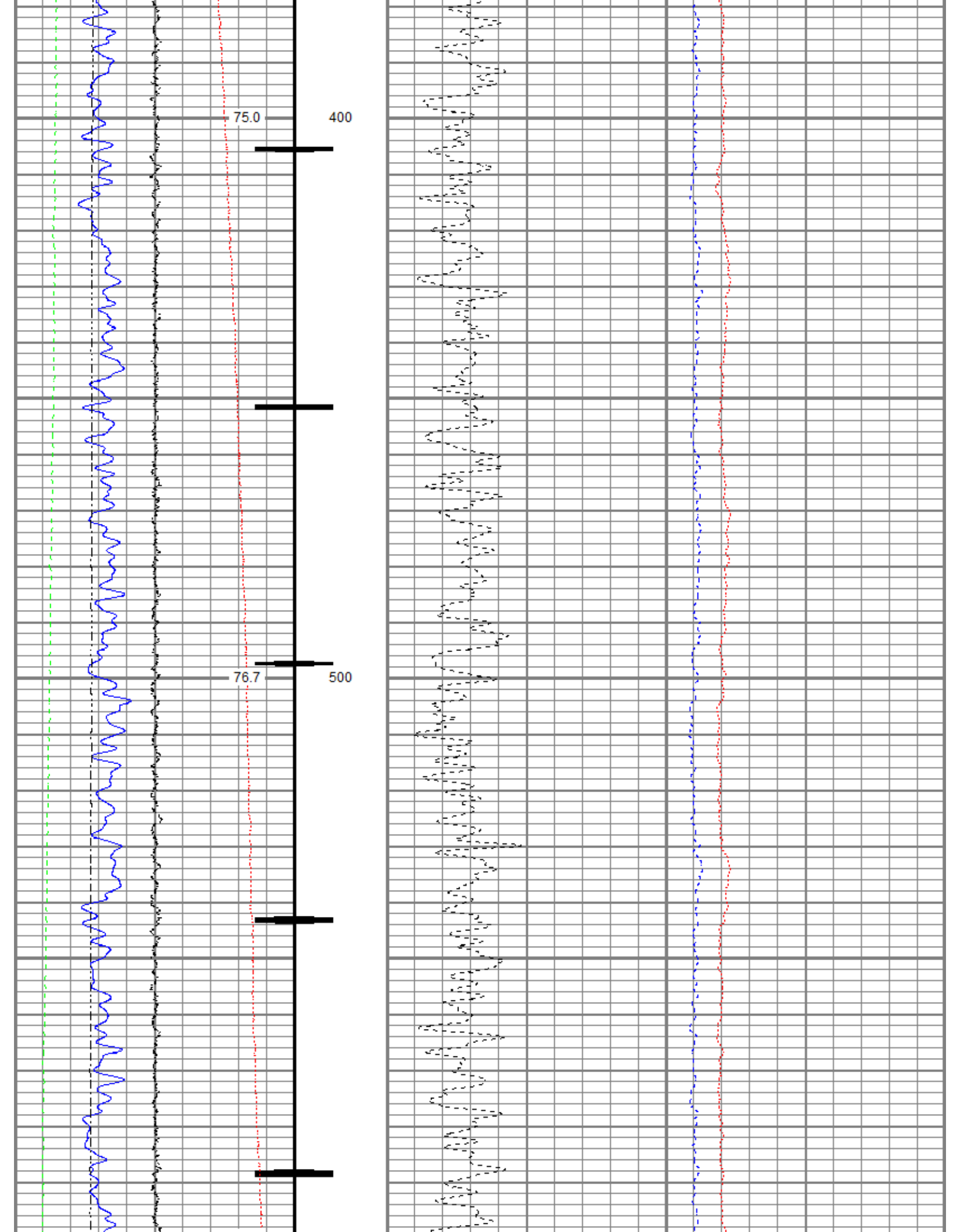
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
<p>Log ran as per customer request Depth referenced to Marker Joint at 6161.5 FT Adjusted -4 FT to correlate with Marker Joint Log ran with 2500 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

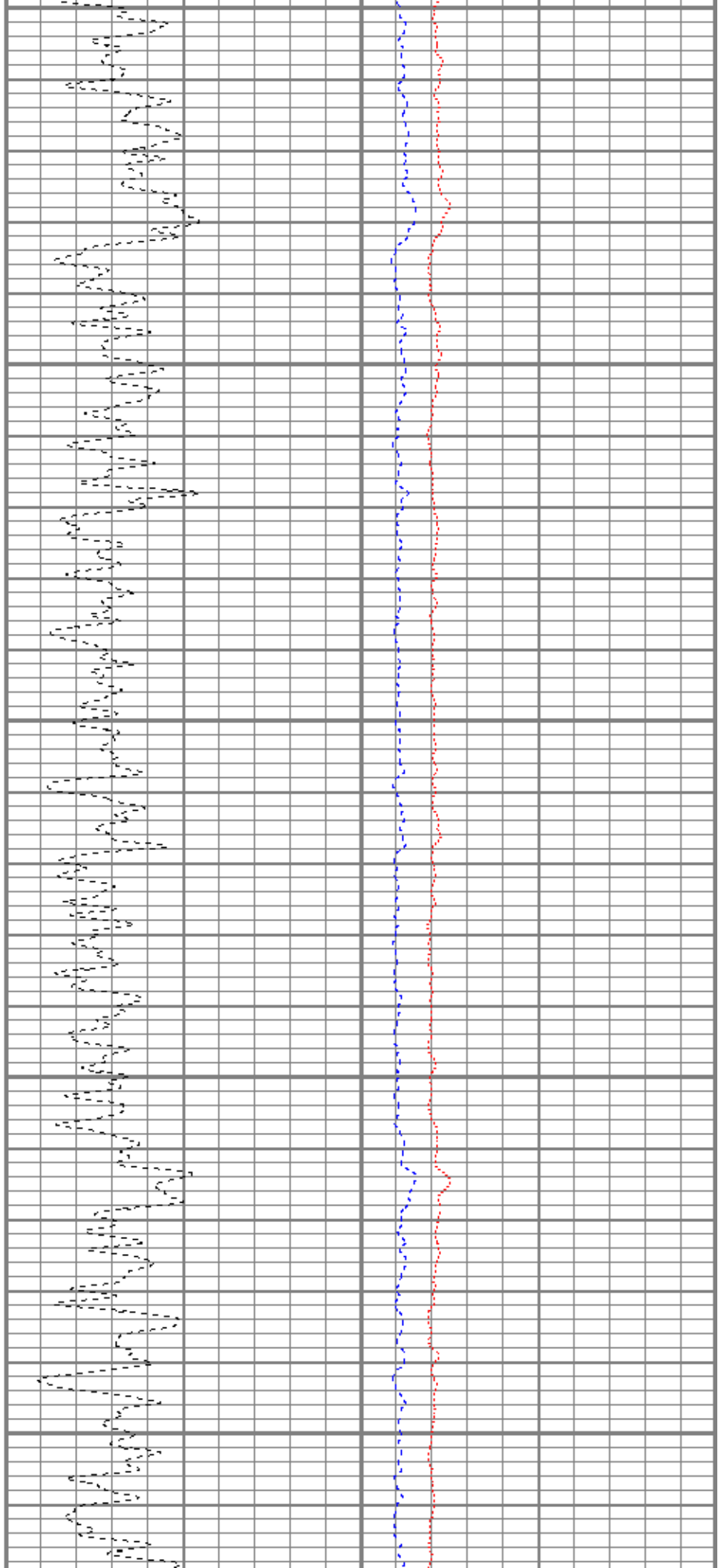
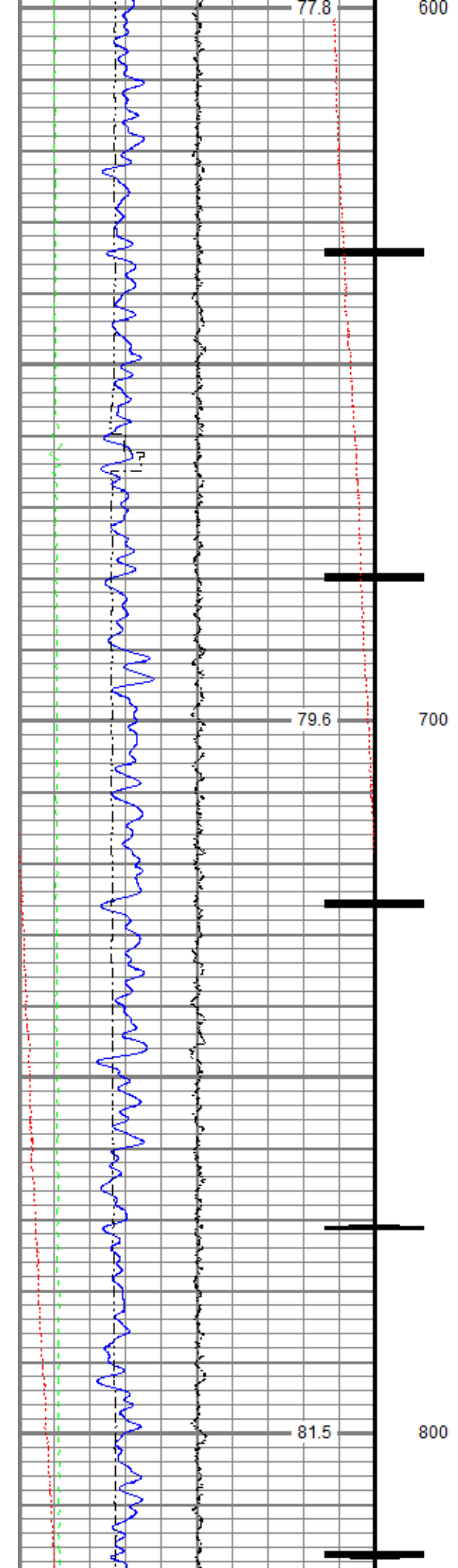
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Dataset Pathname pass4.1
Presentation Format ros_cnl_probe
Dataset Creation Sat Dec 19 12:09:57 2020
Charted by Depth in Feet scaled 1:240

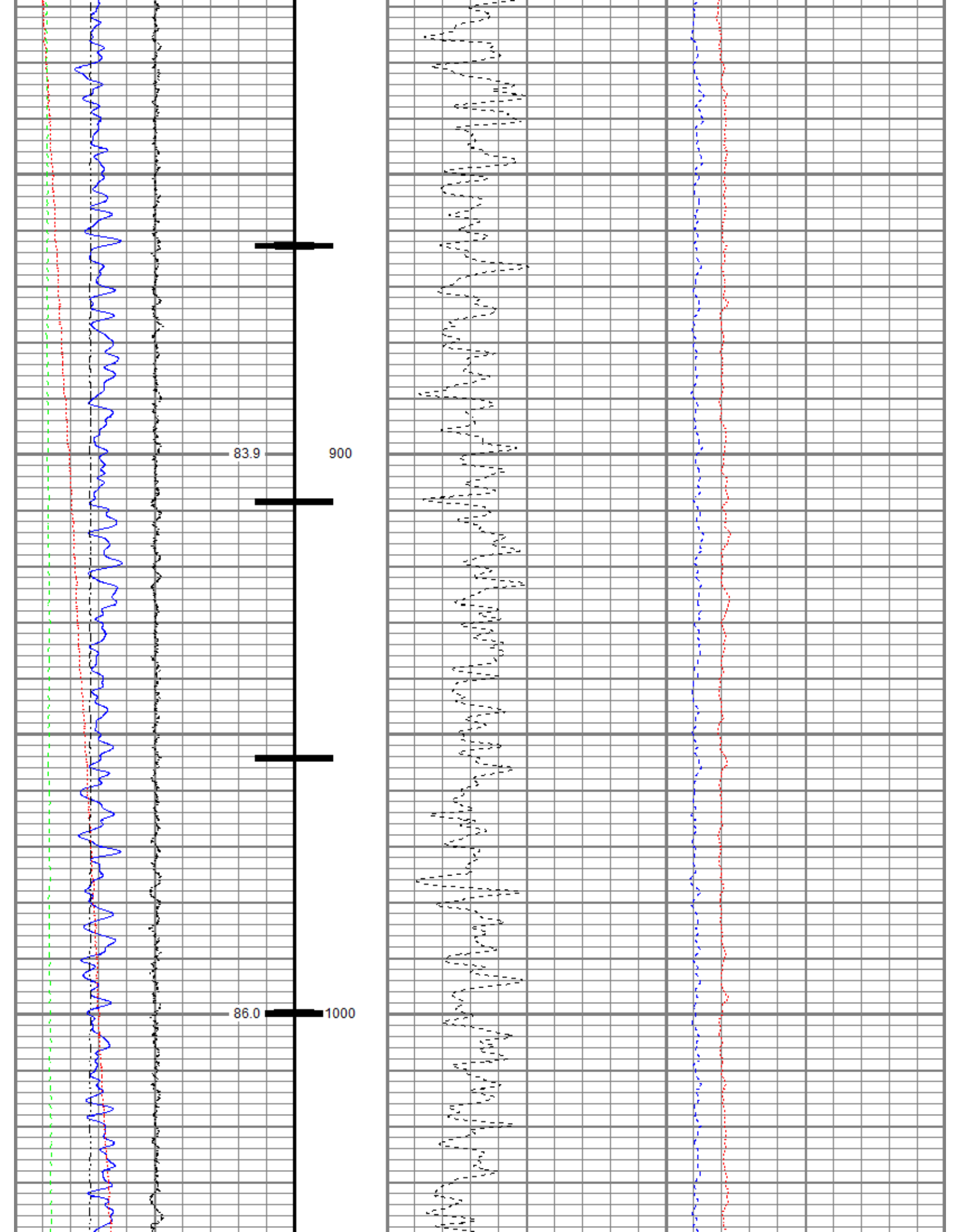
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Casing Collar Locator						0	Near Neutron (cps)	5000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

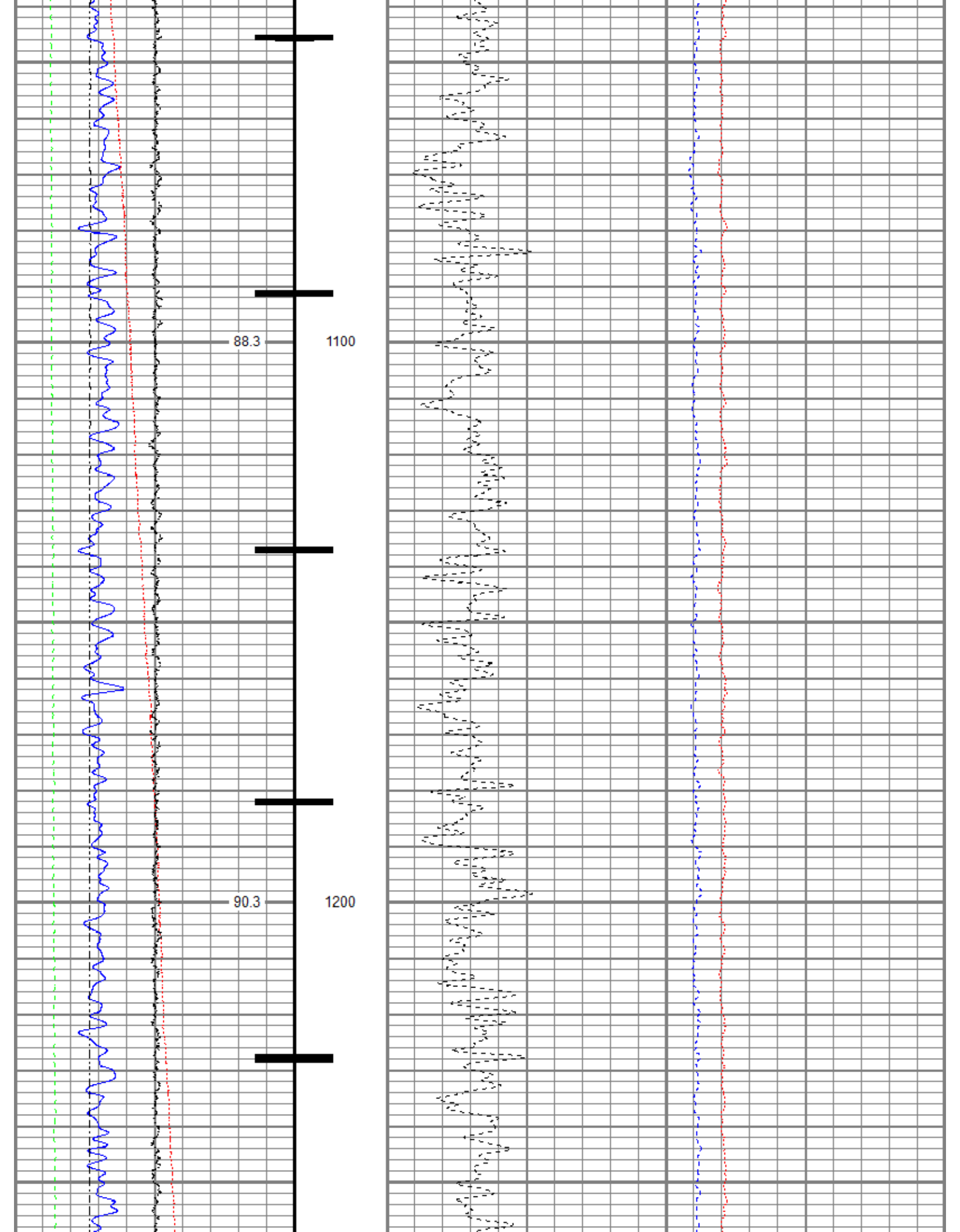


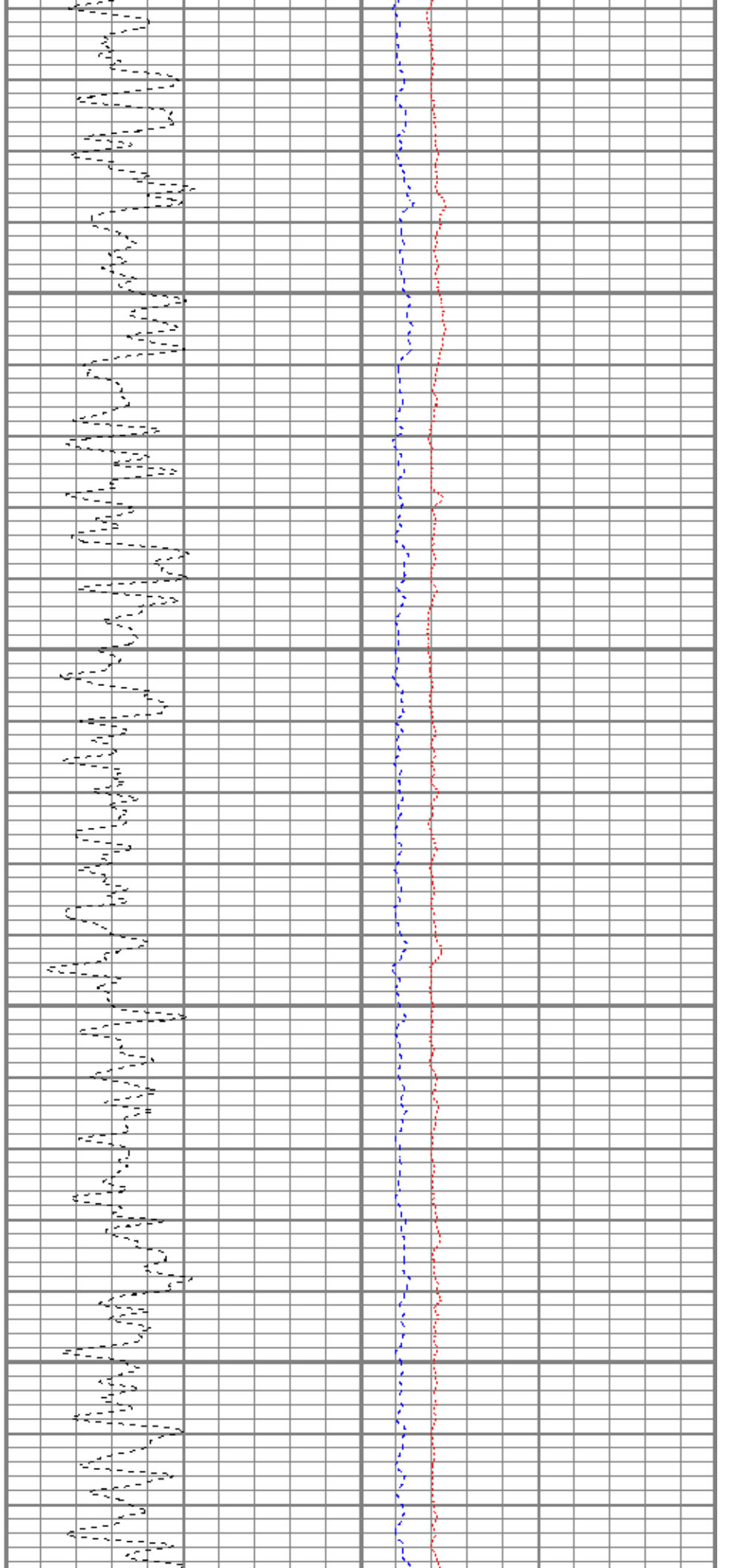
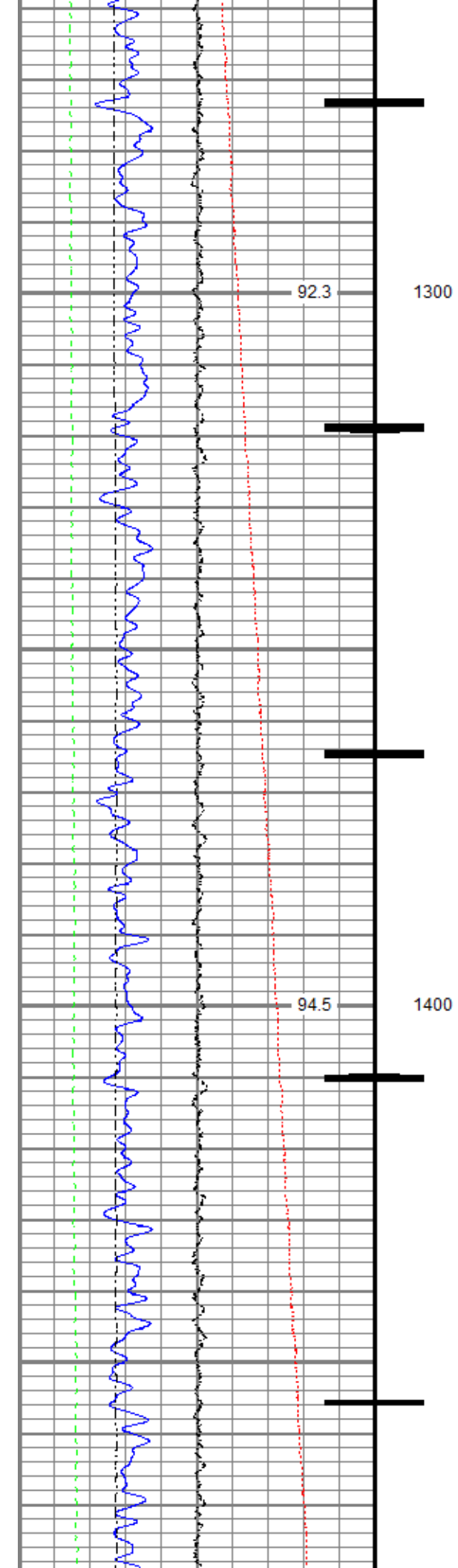


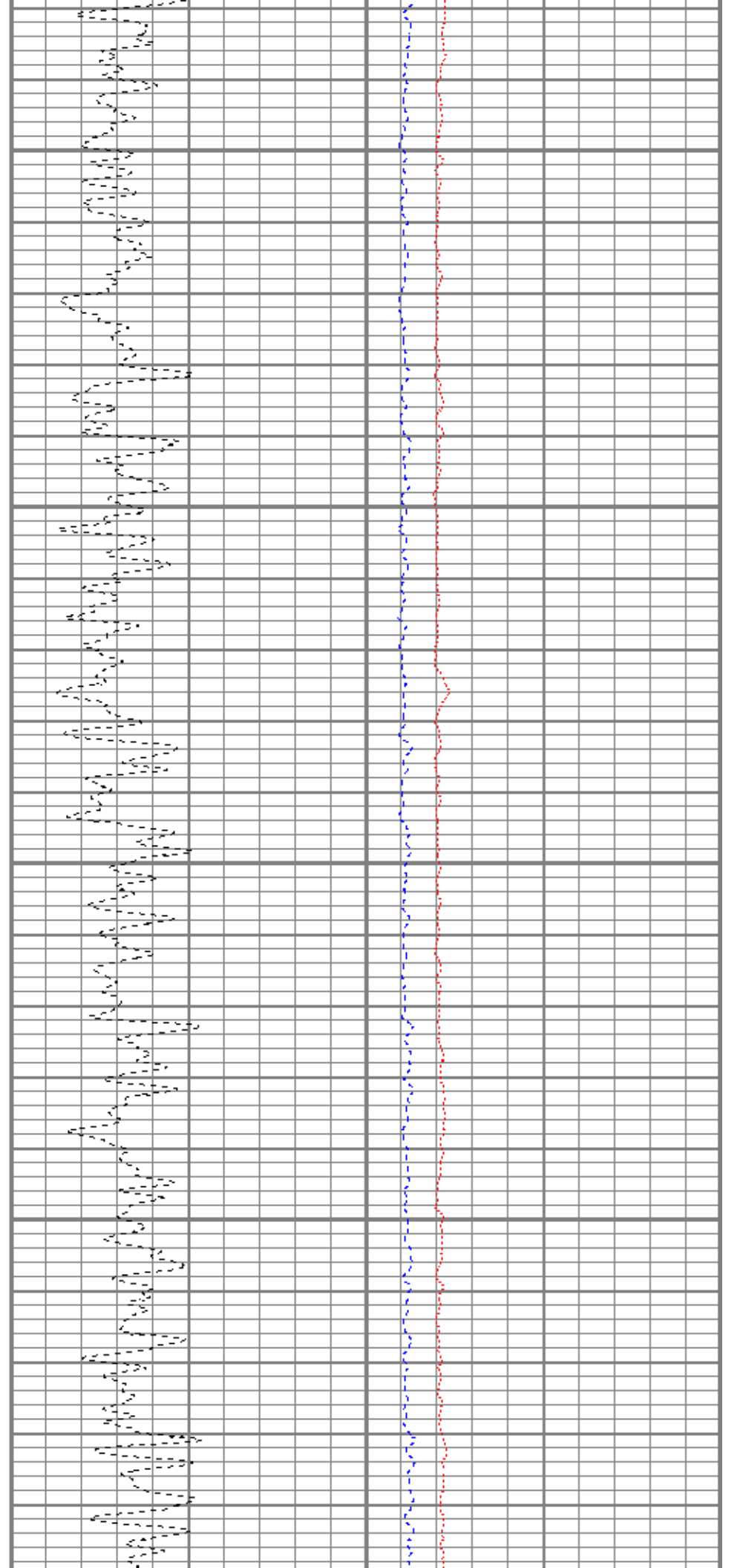
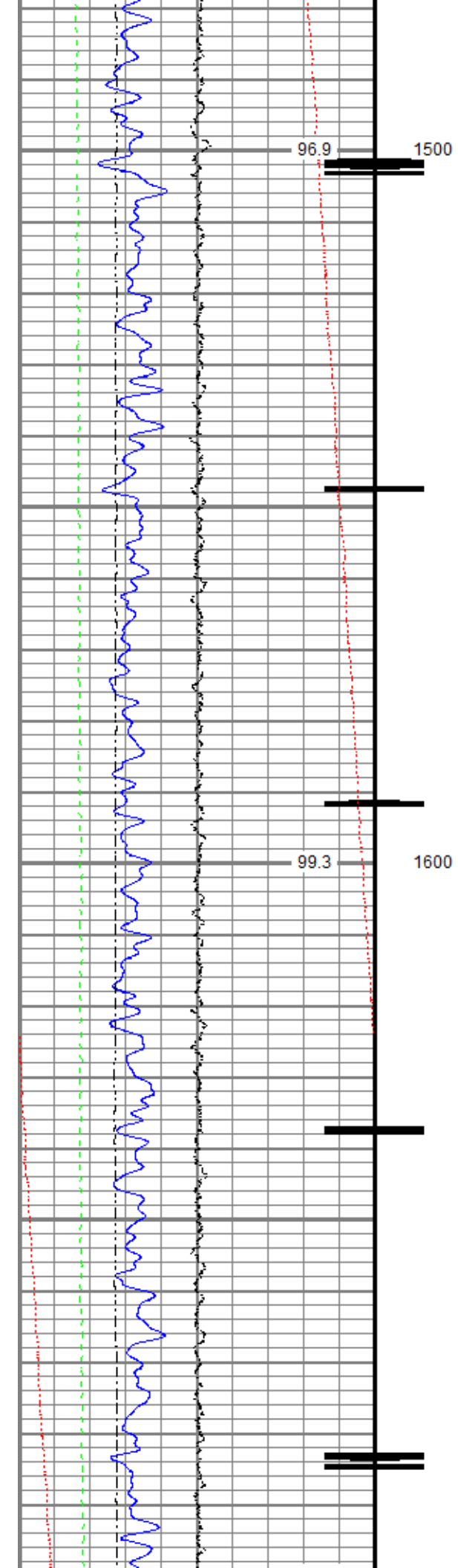


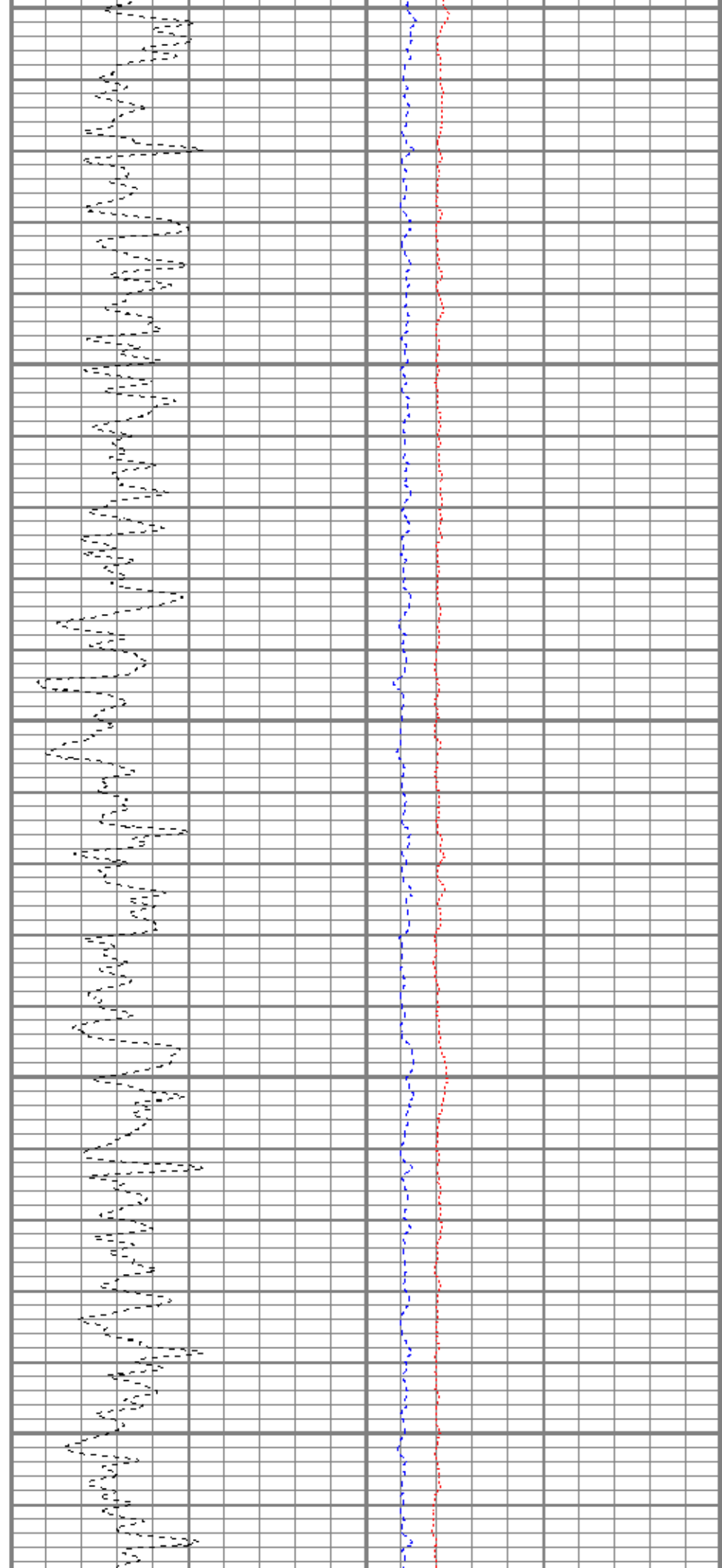
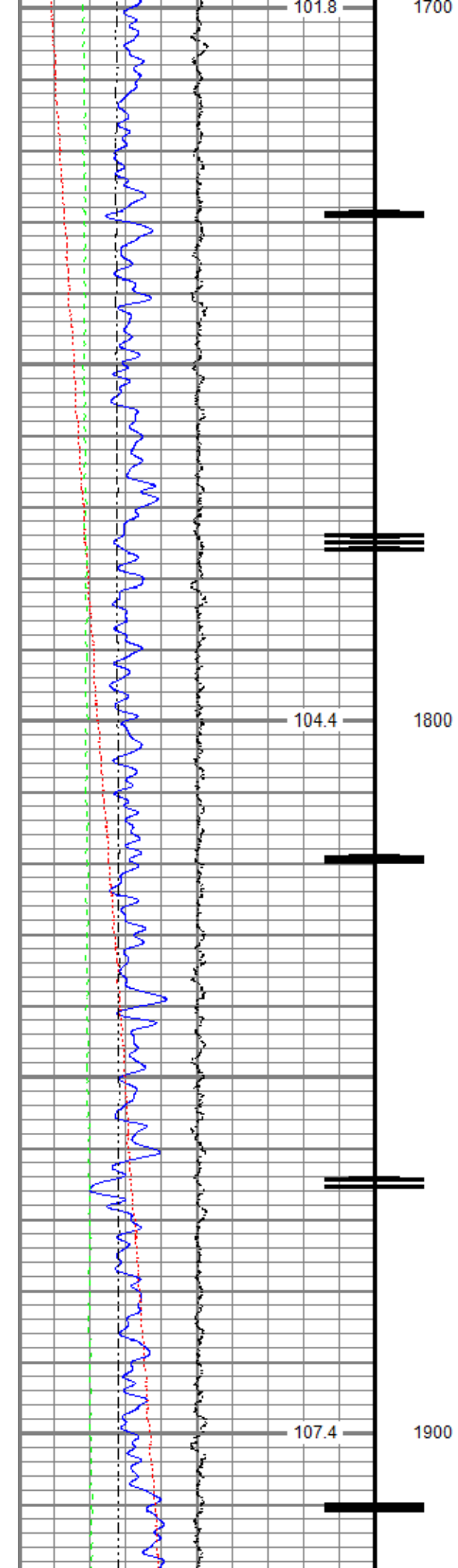


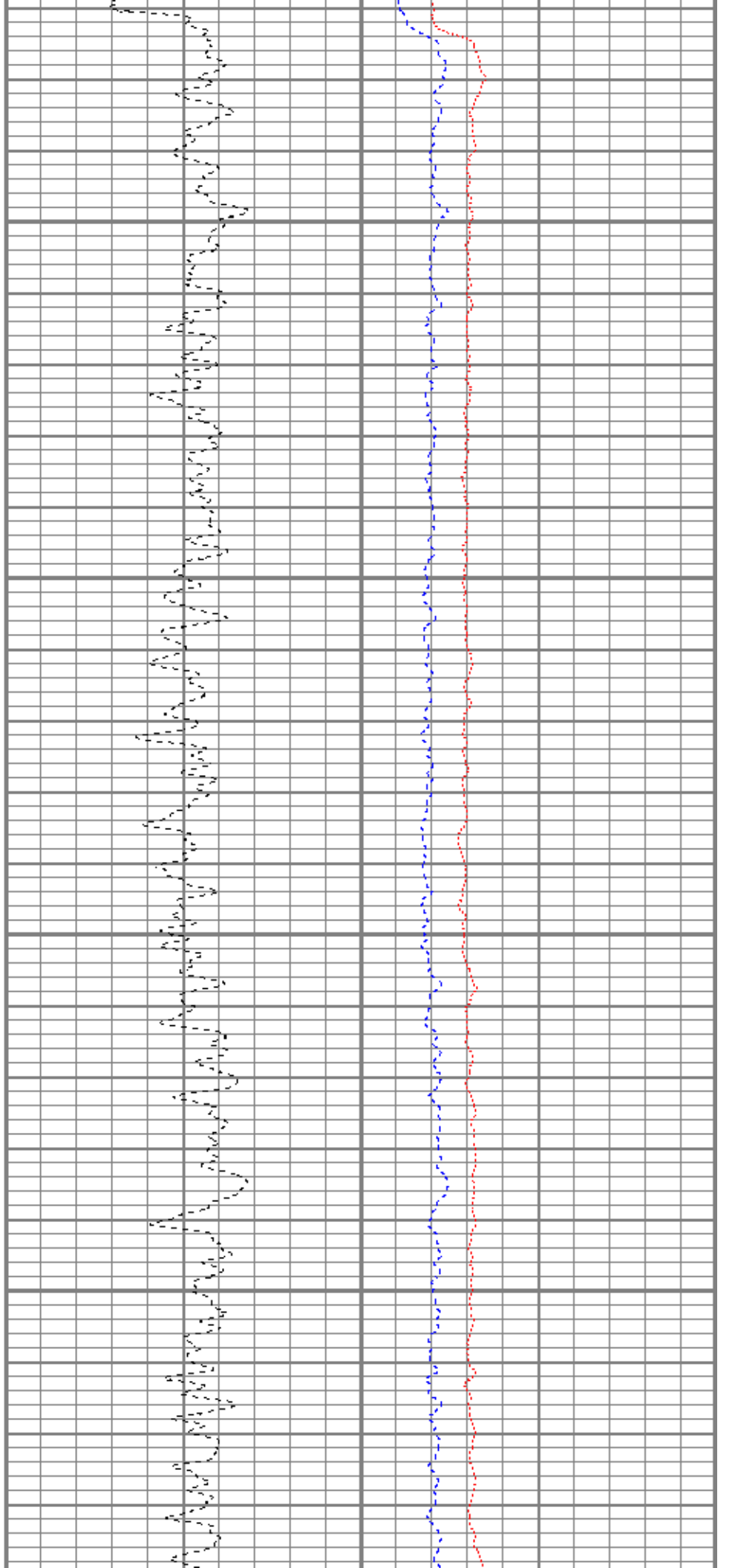
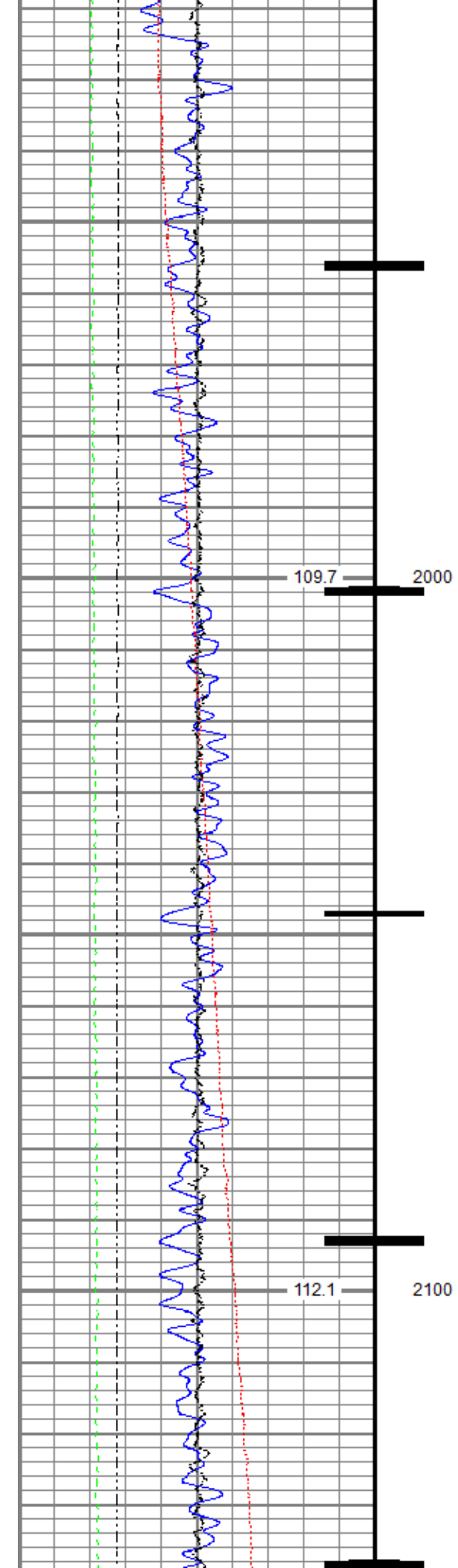


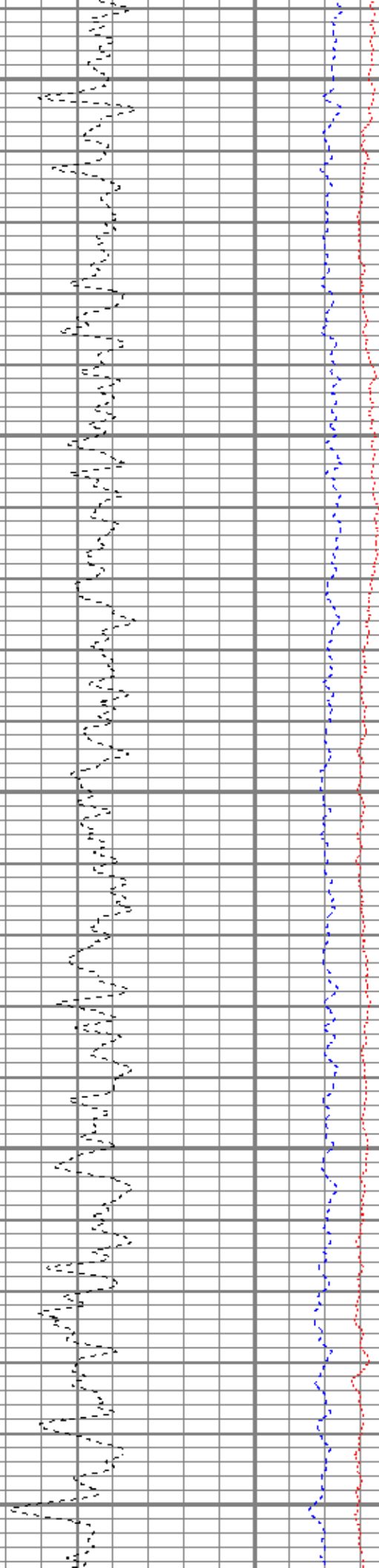
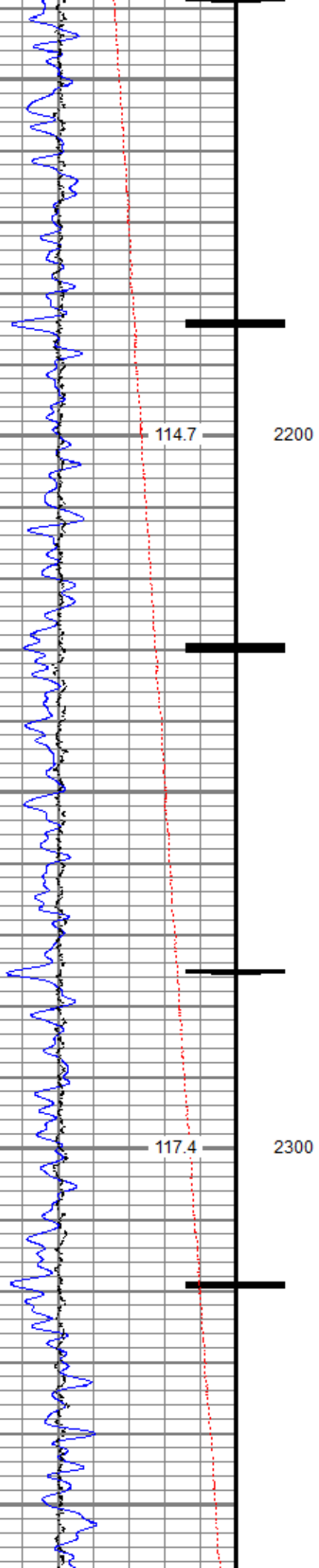


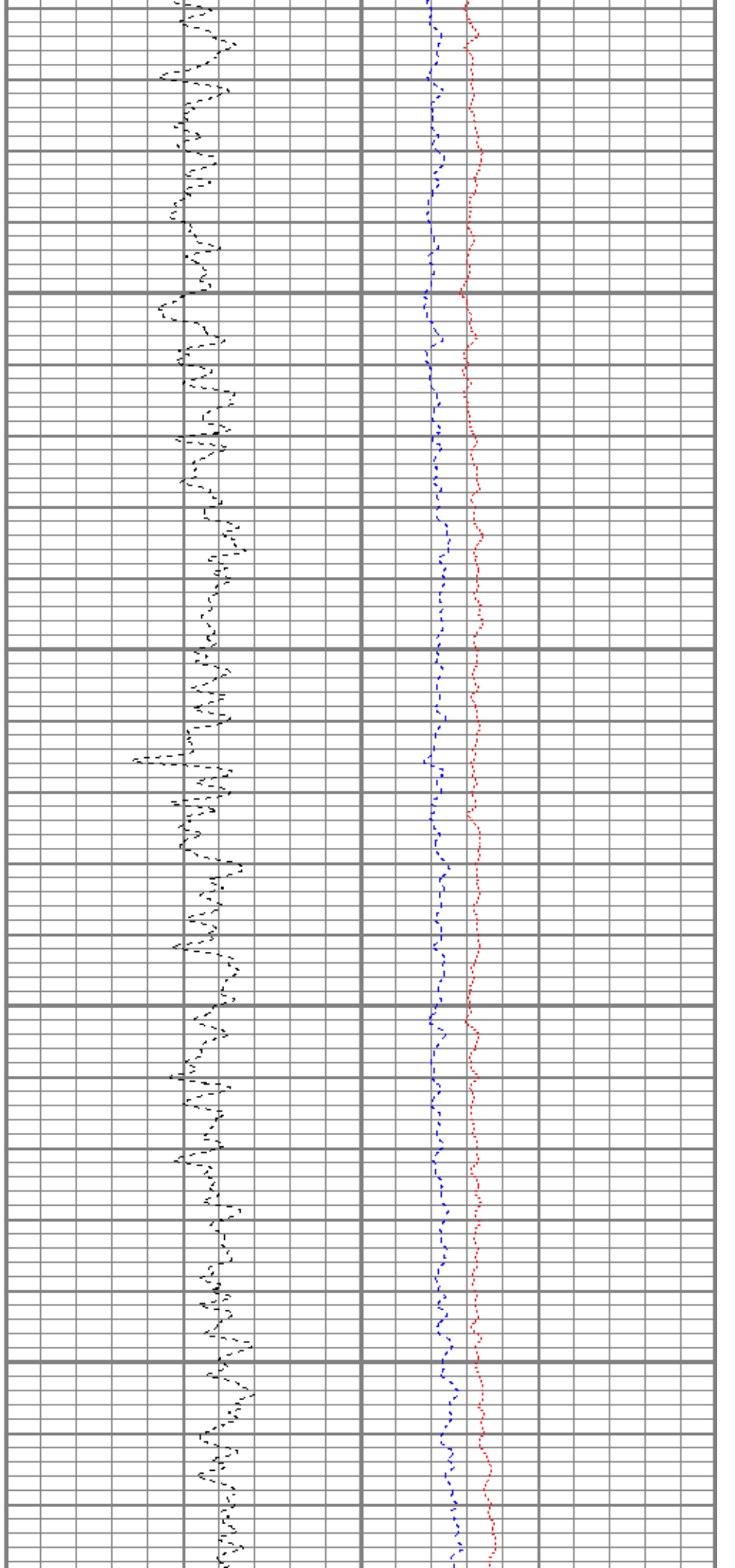
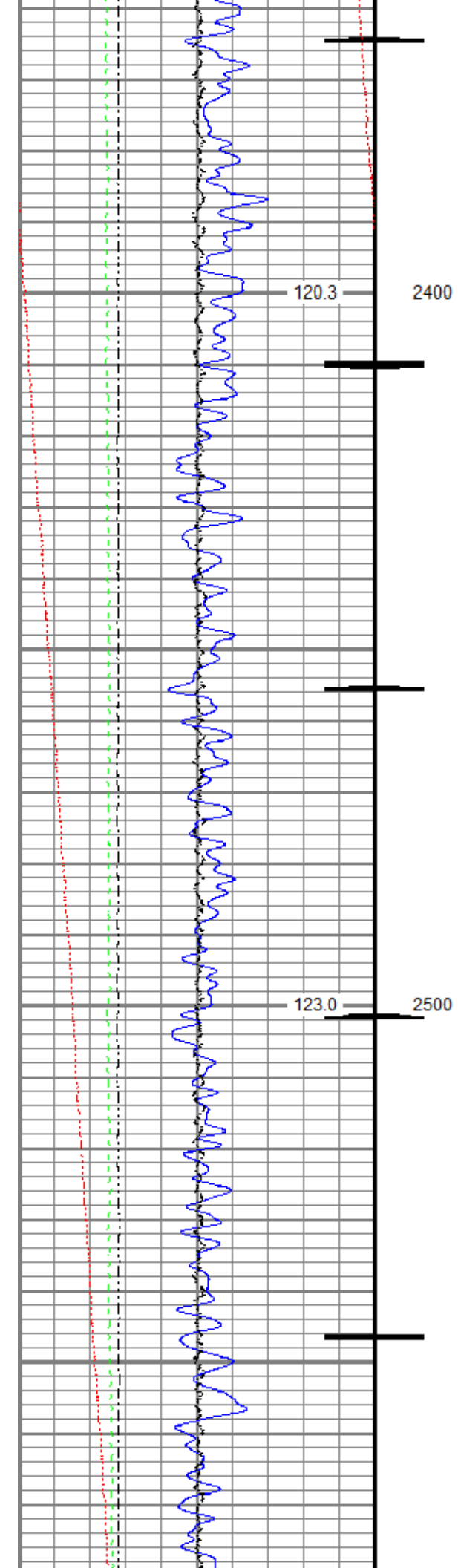


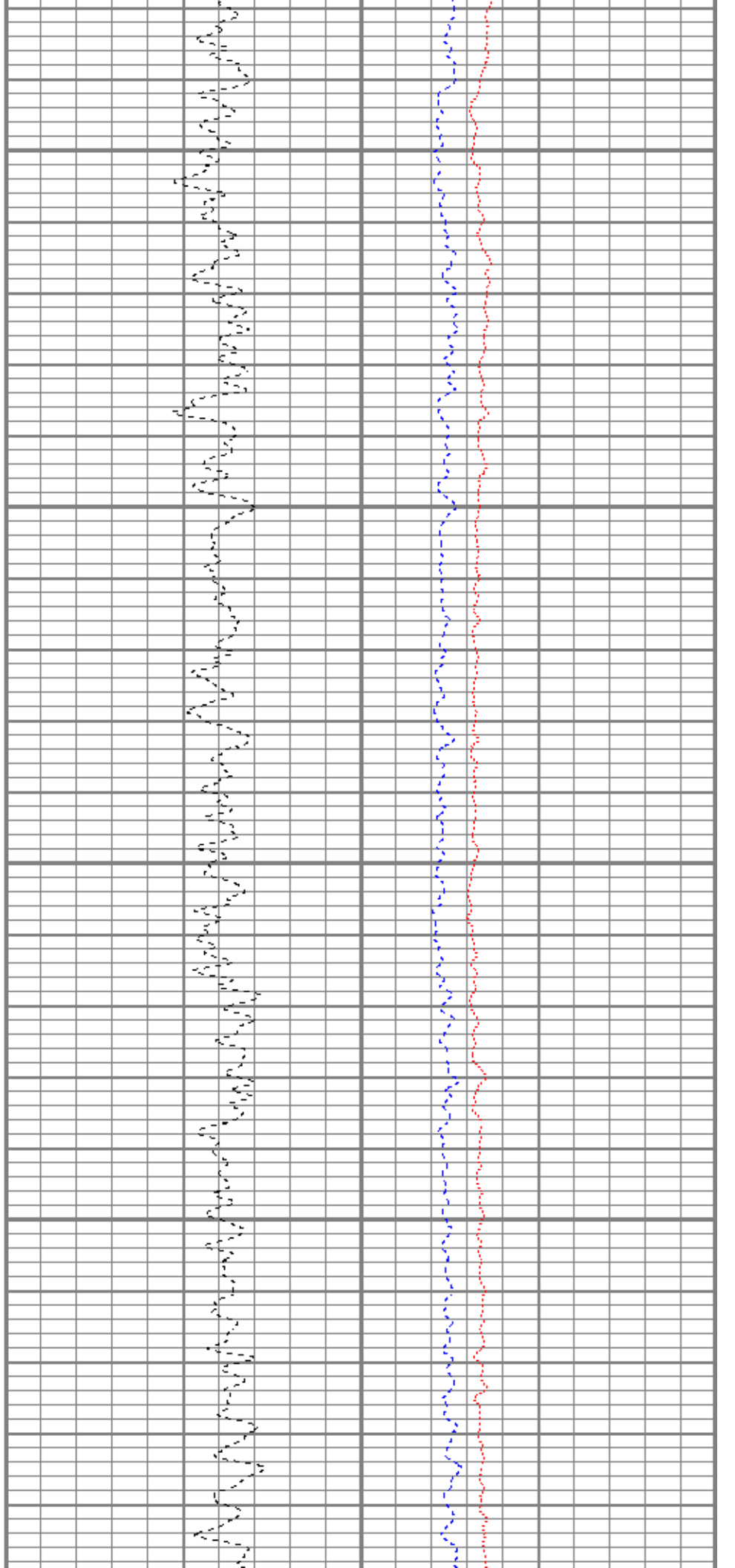
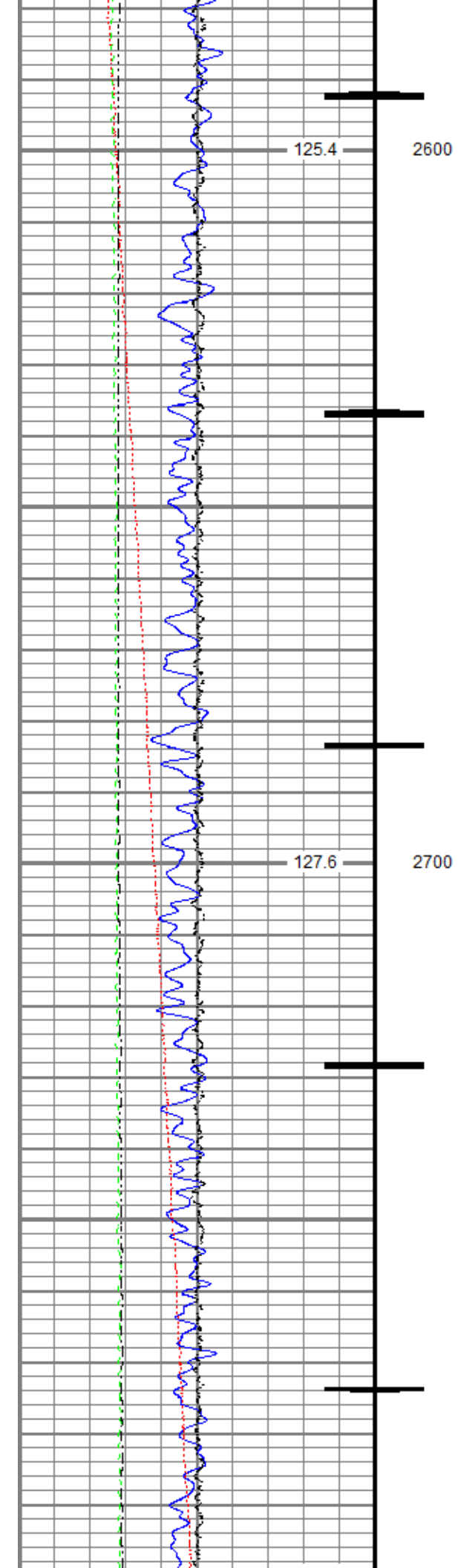


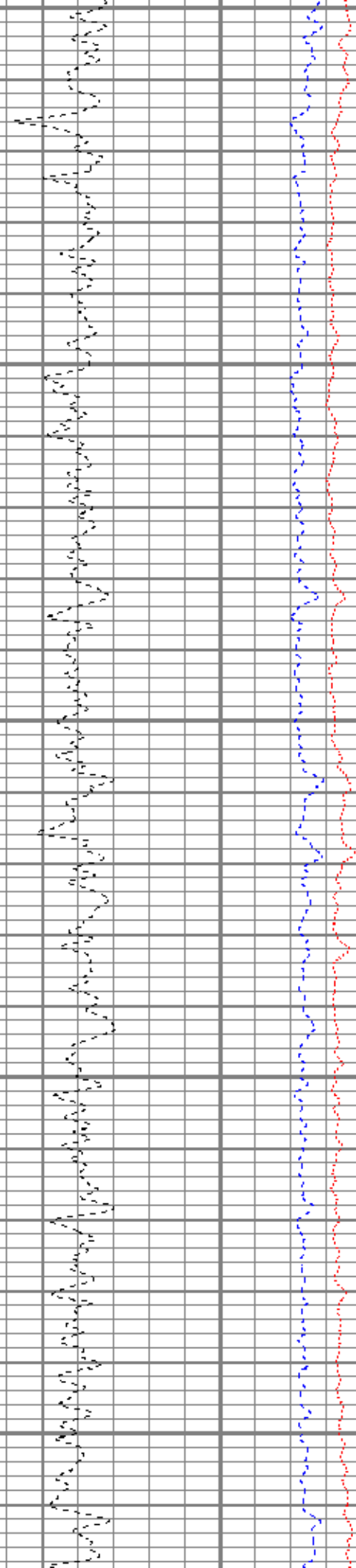
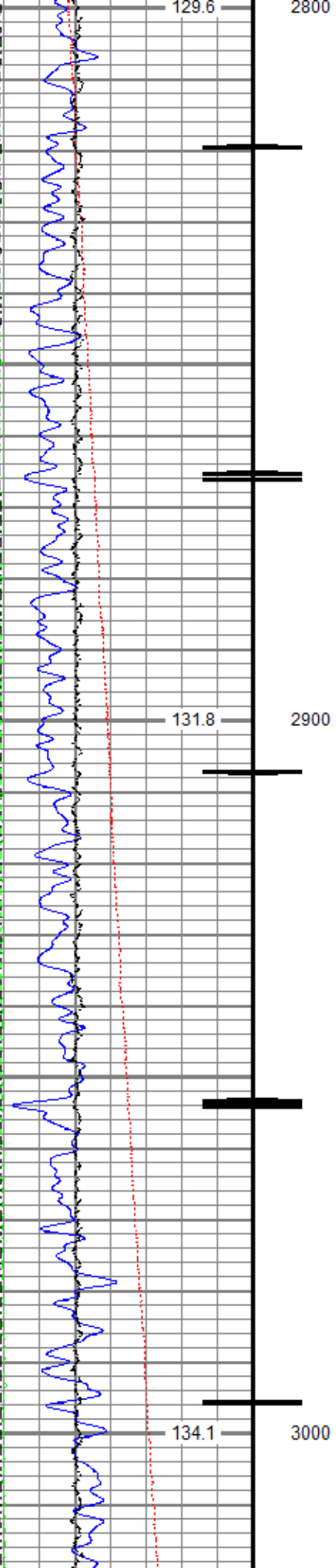


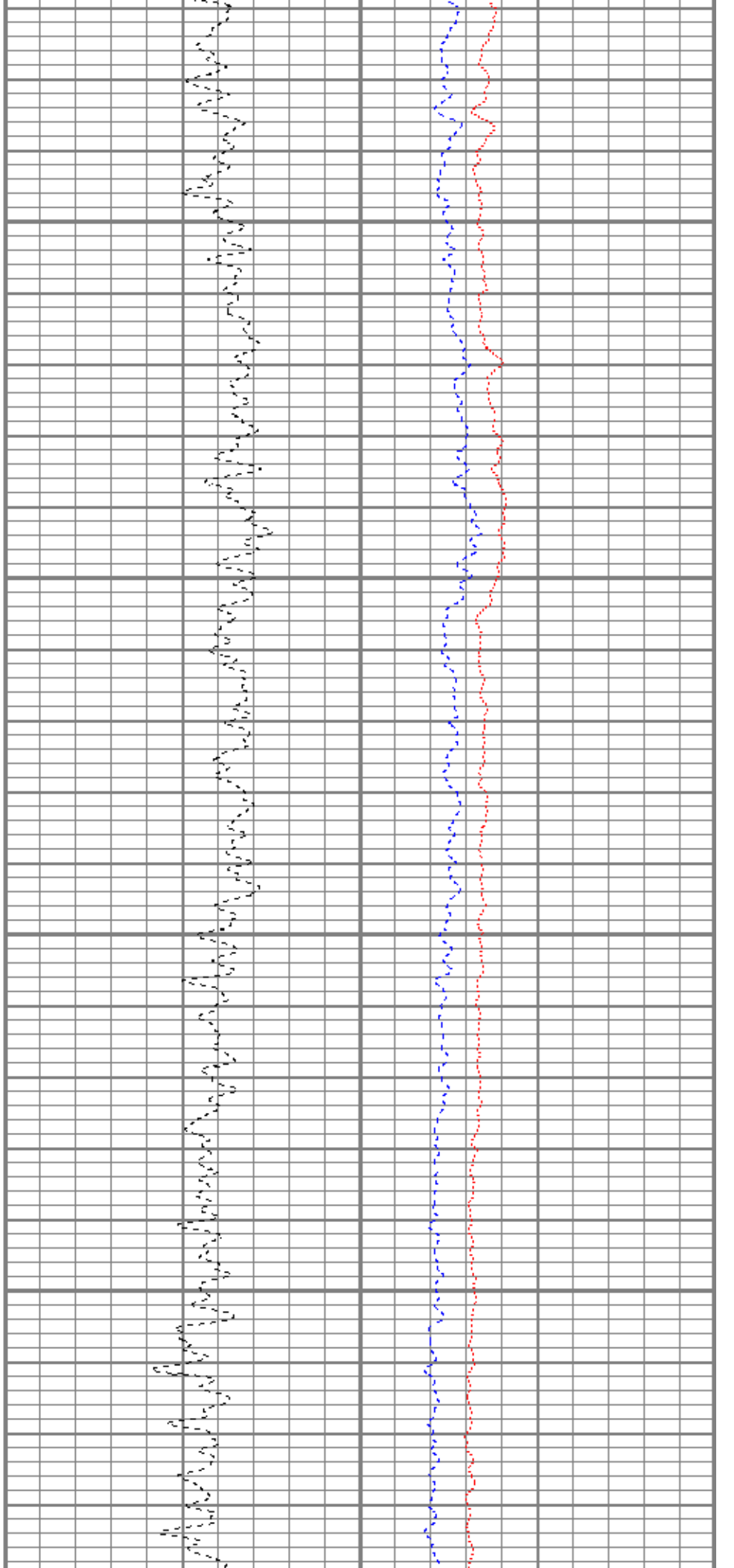
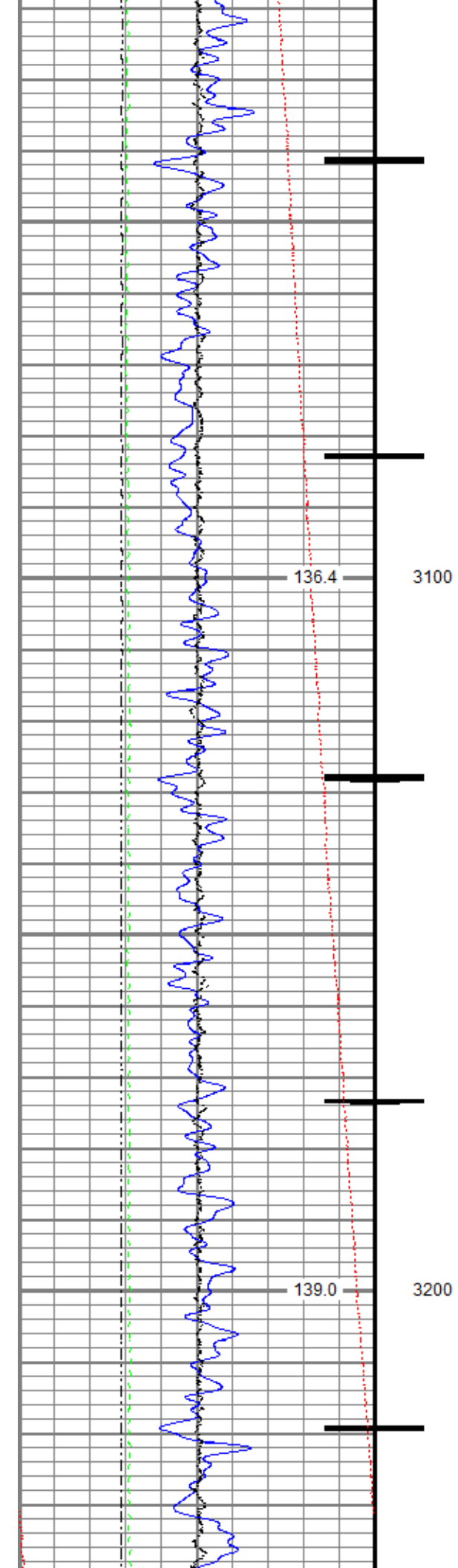


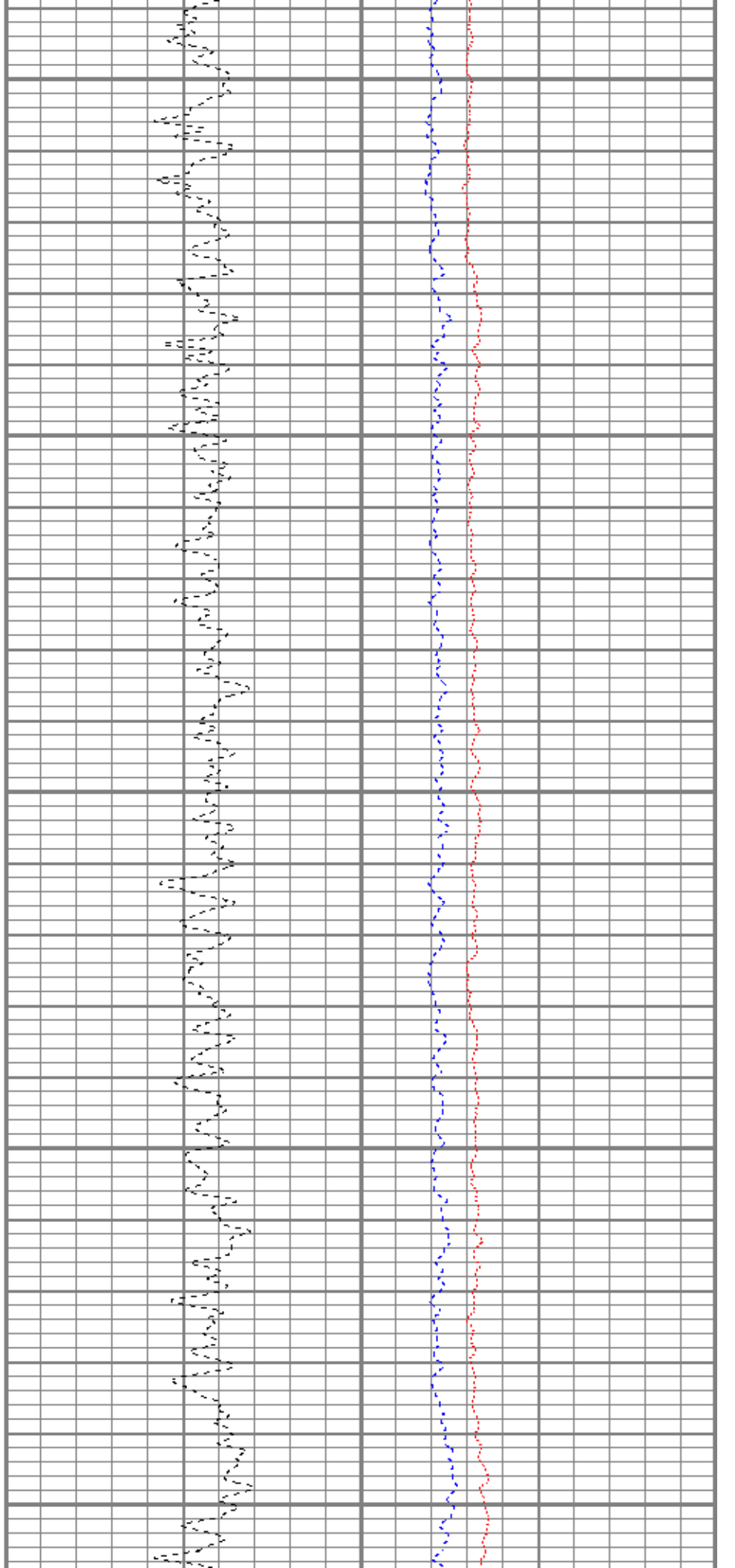
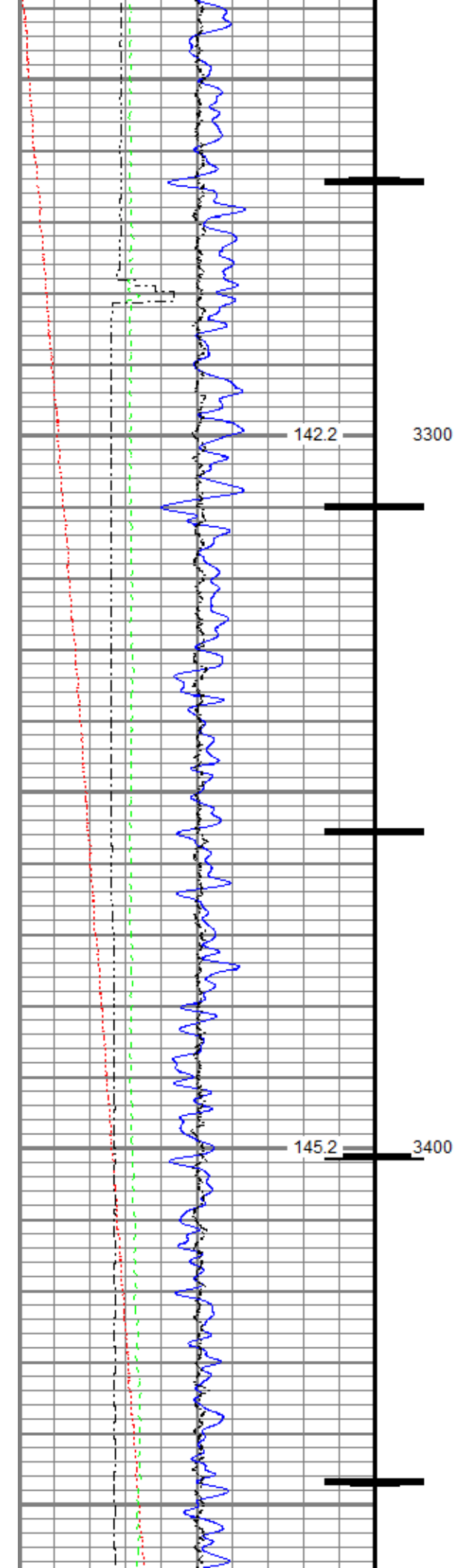


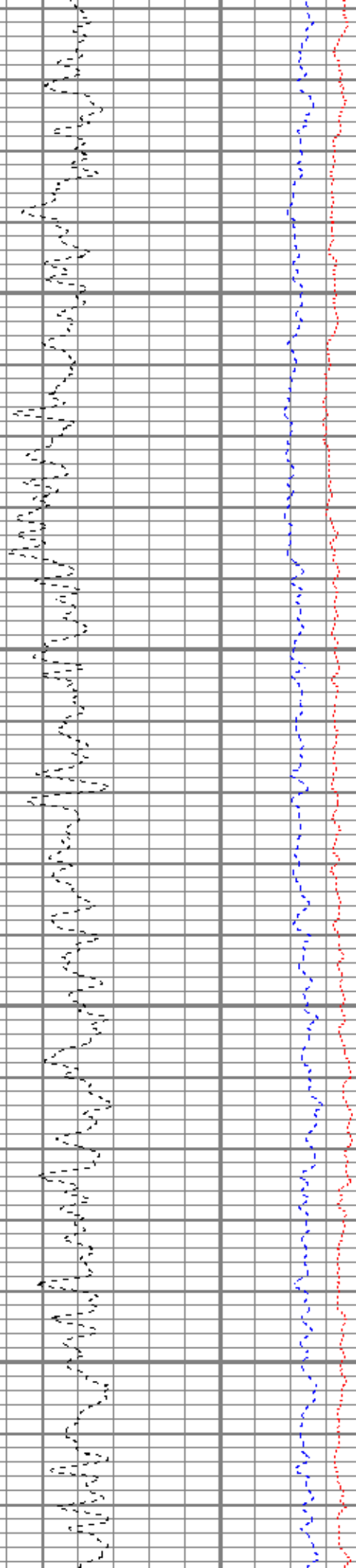
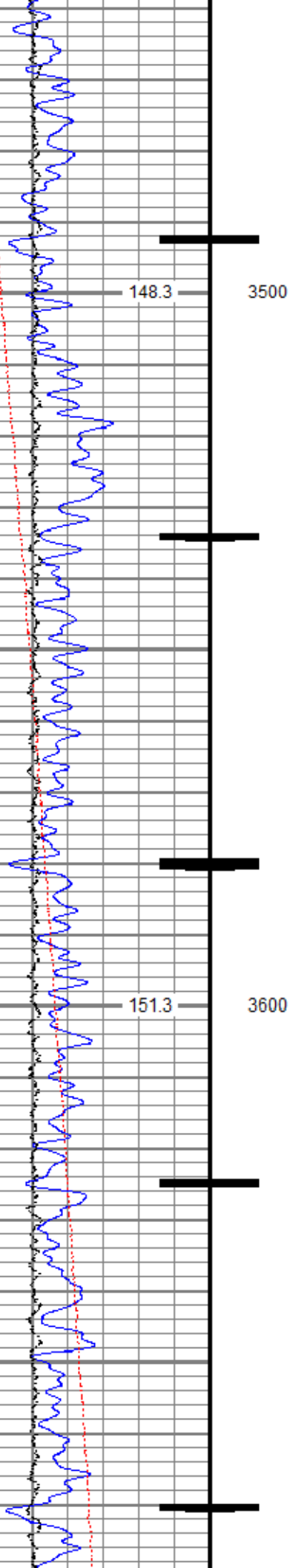


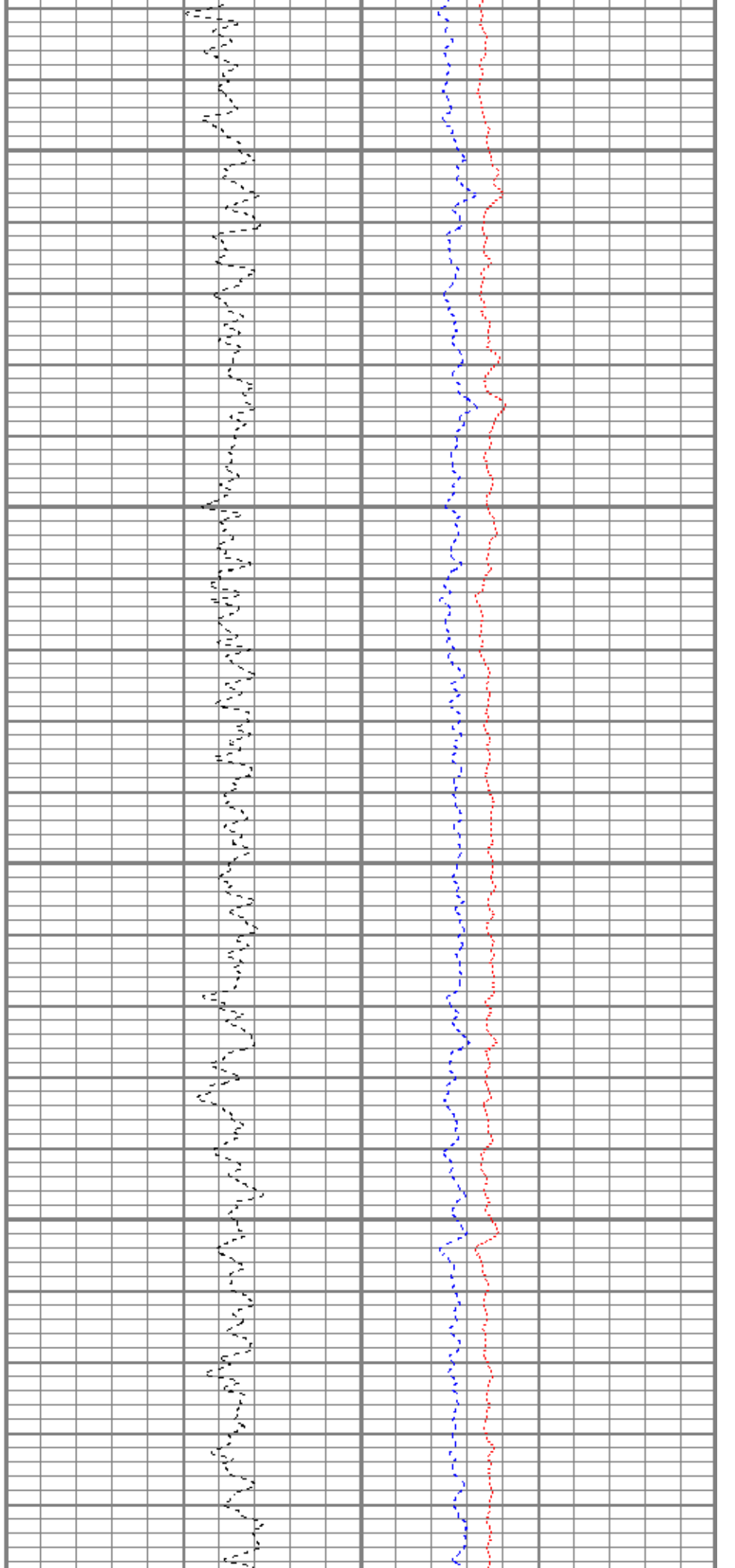
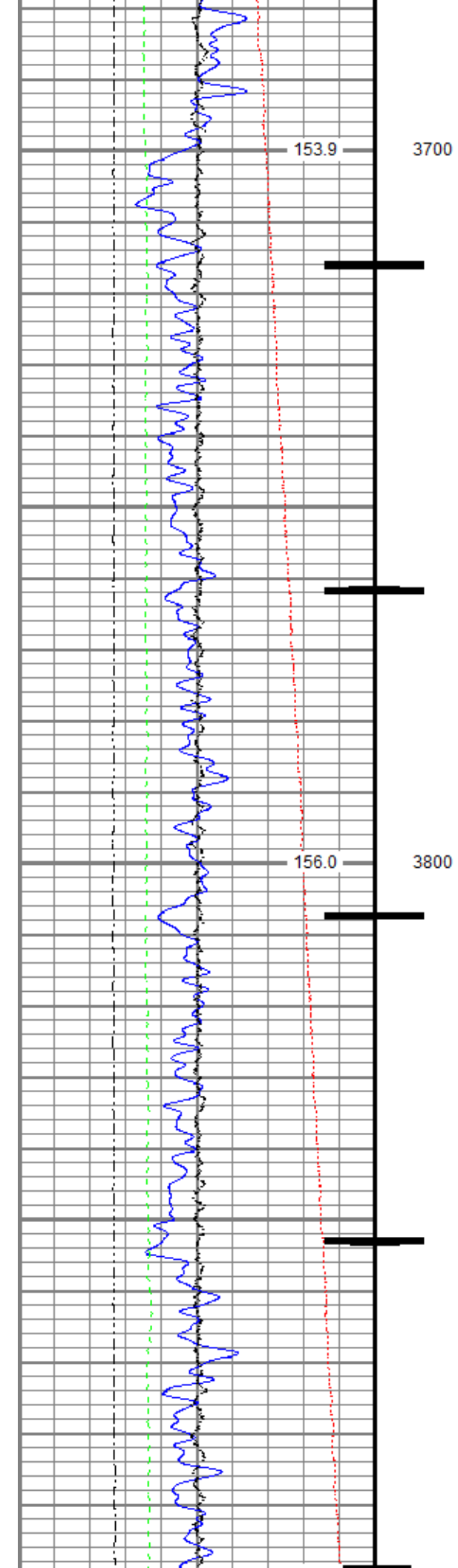


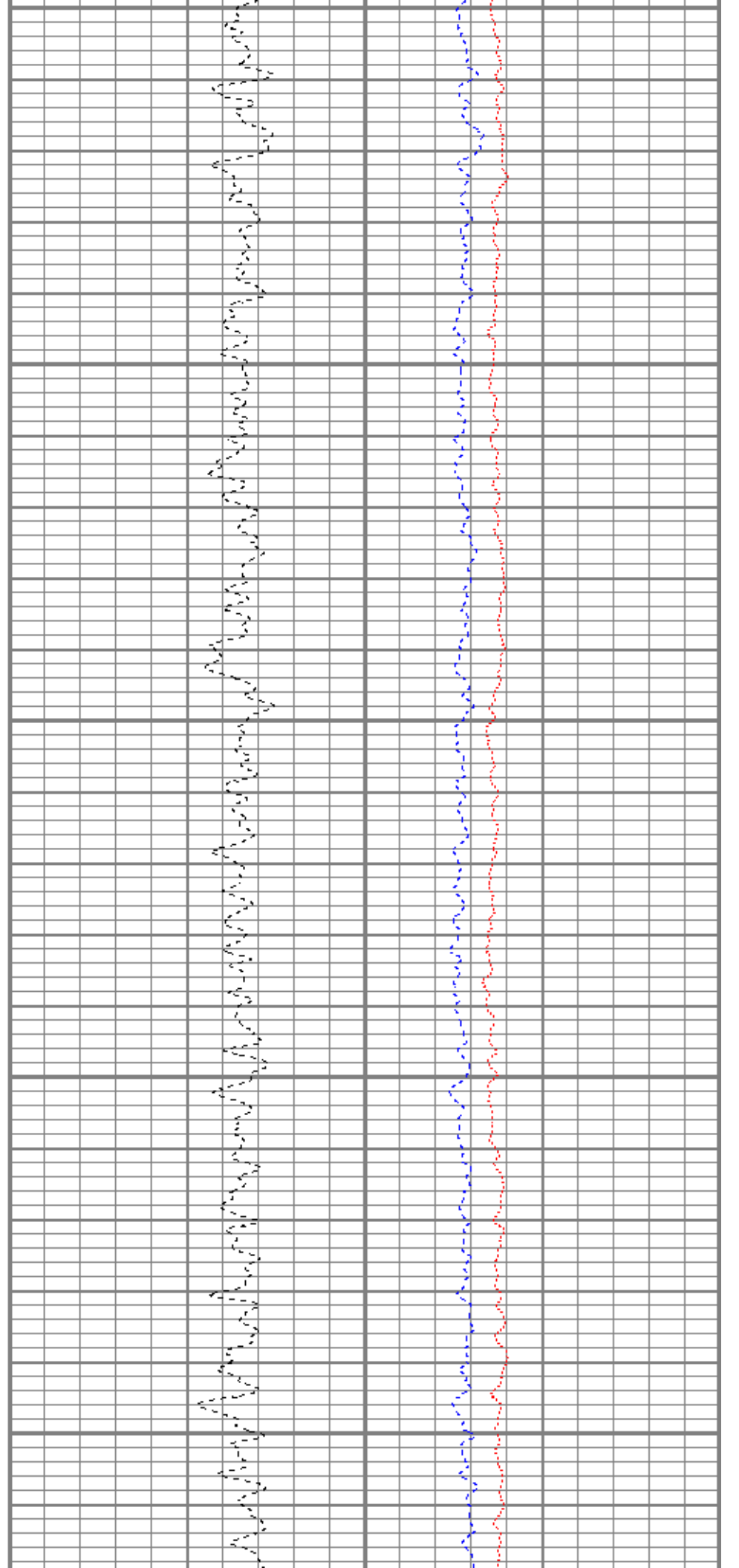
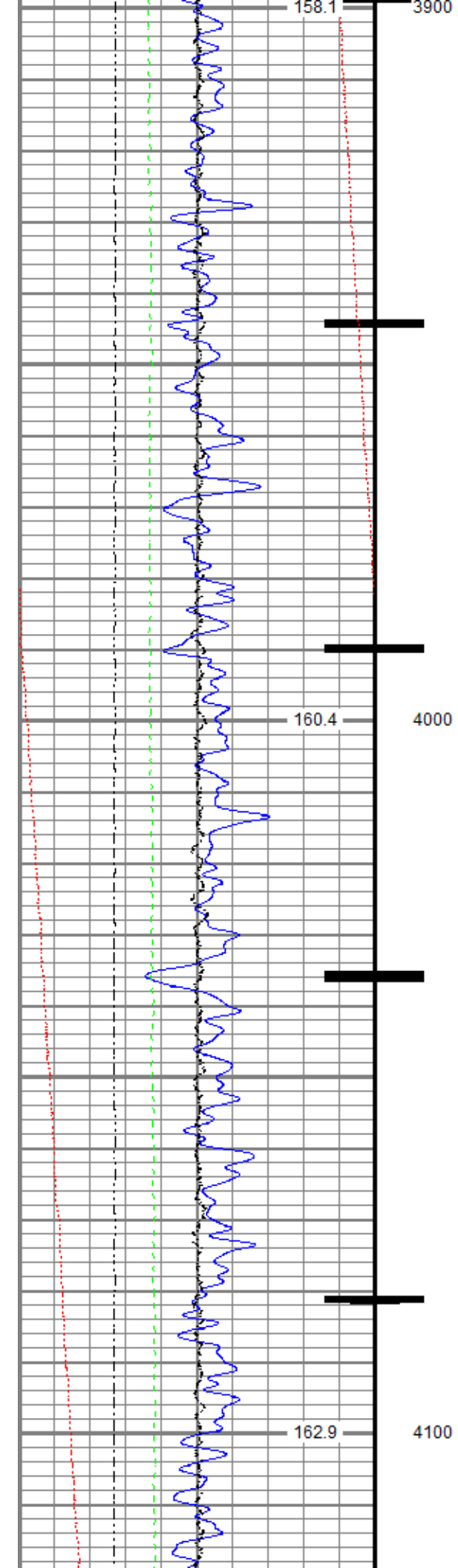


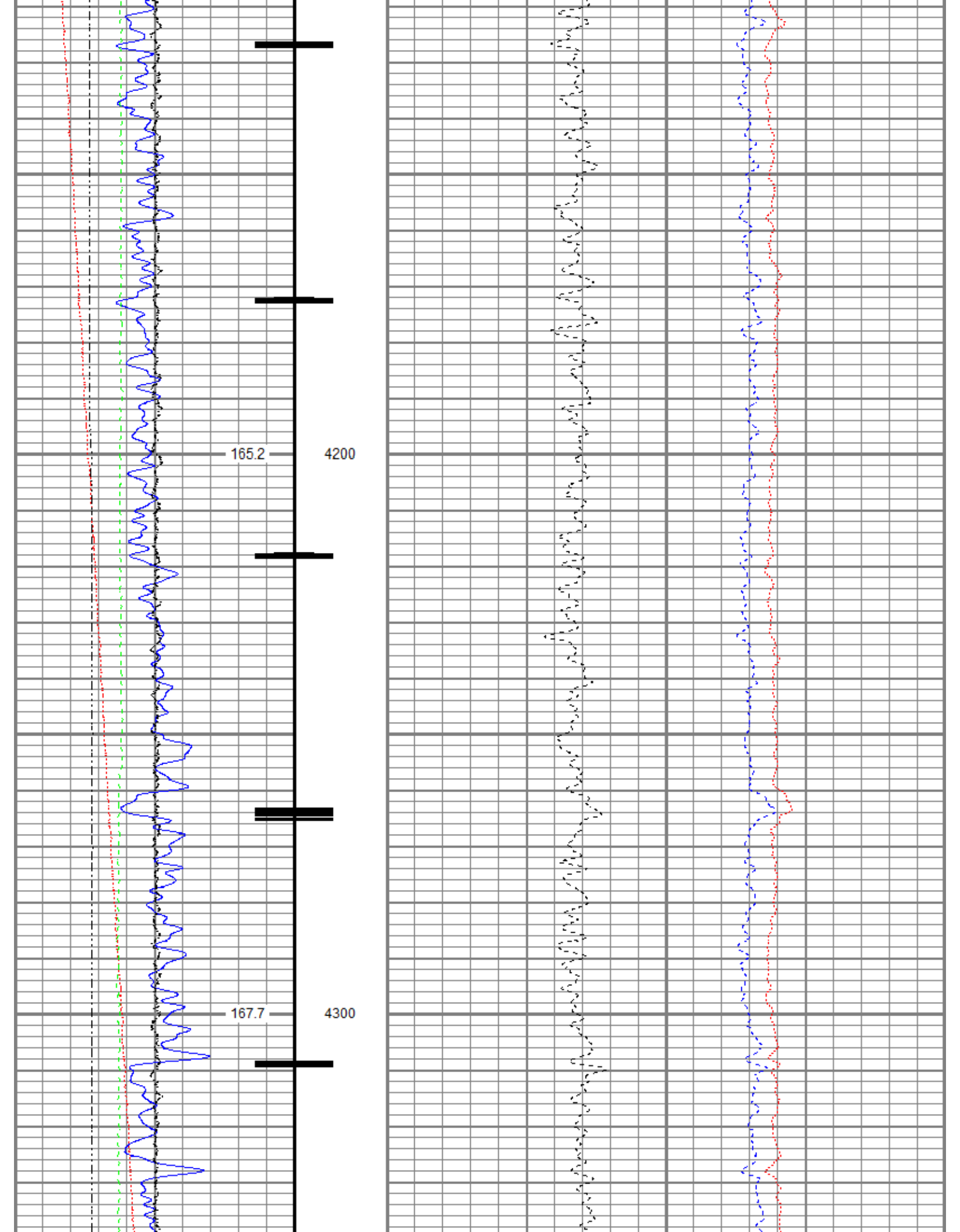


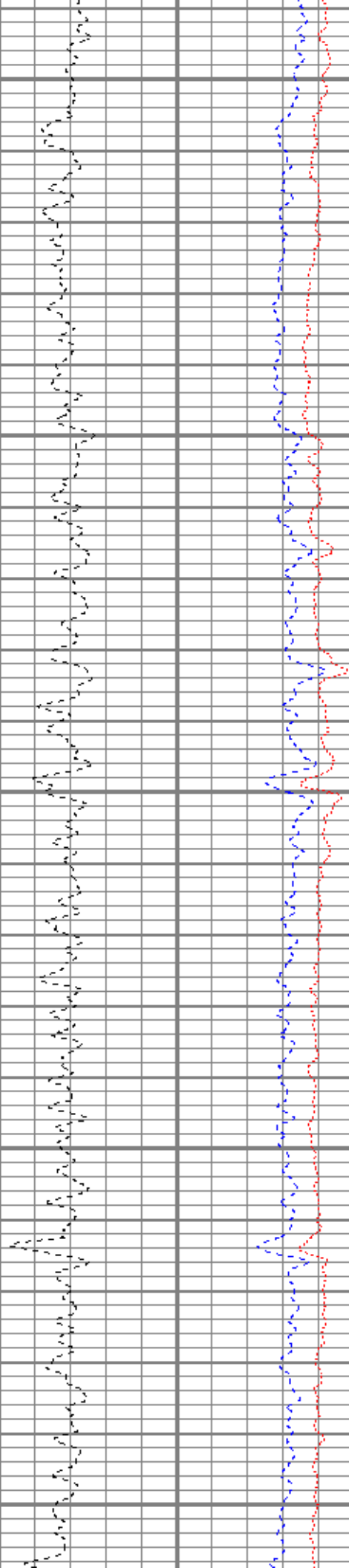
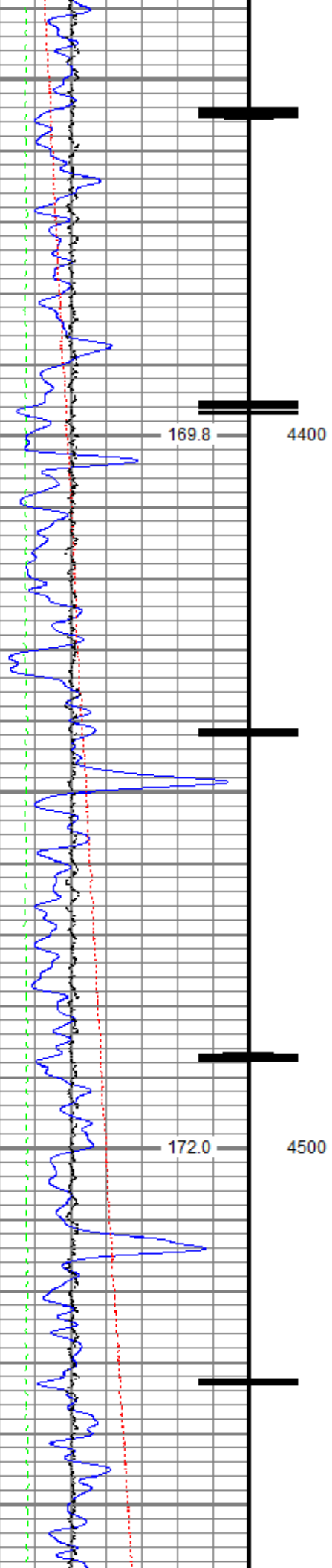


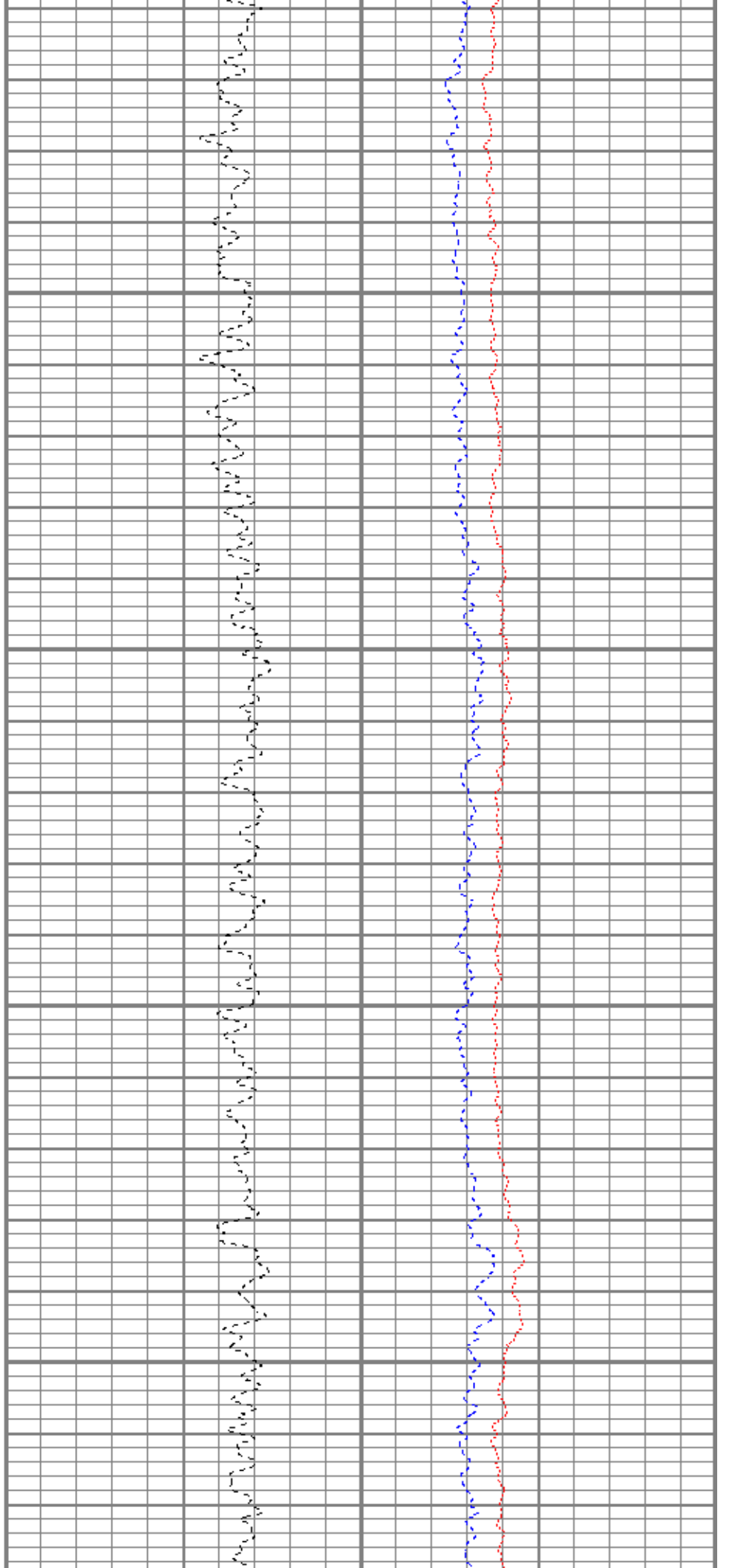
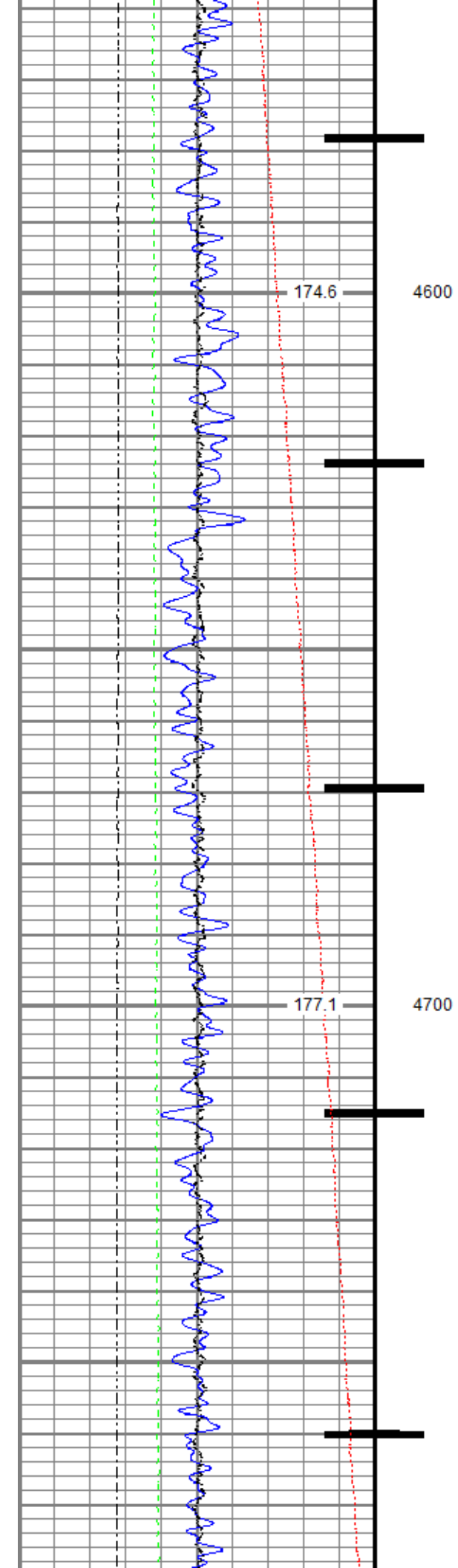


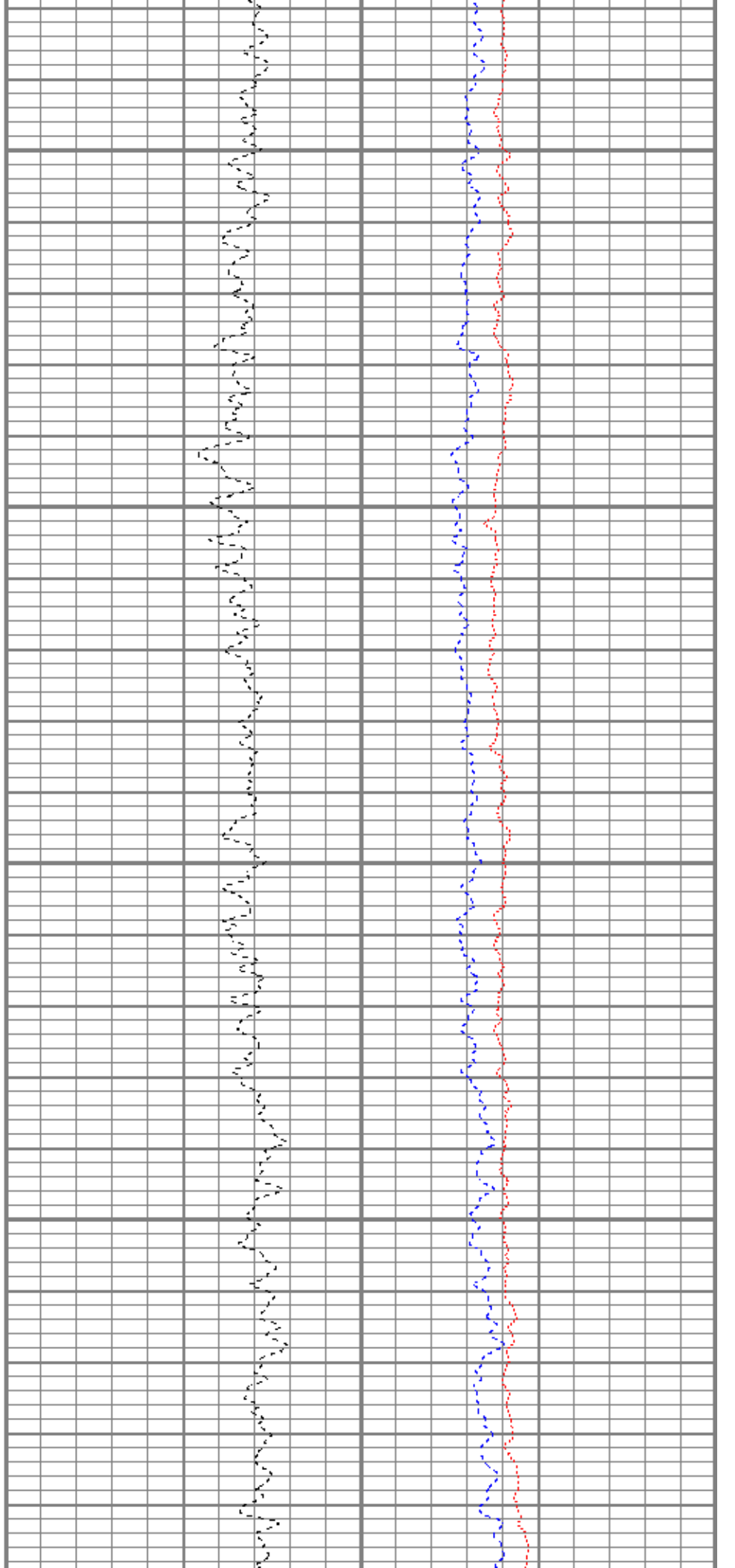
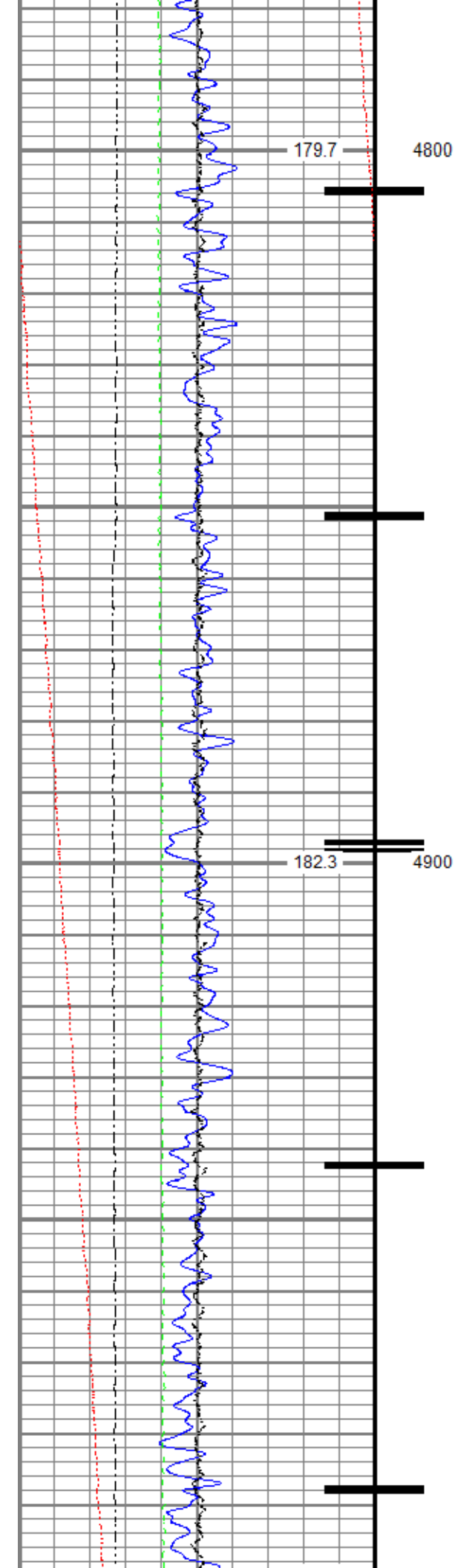


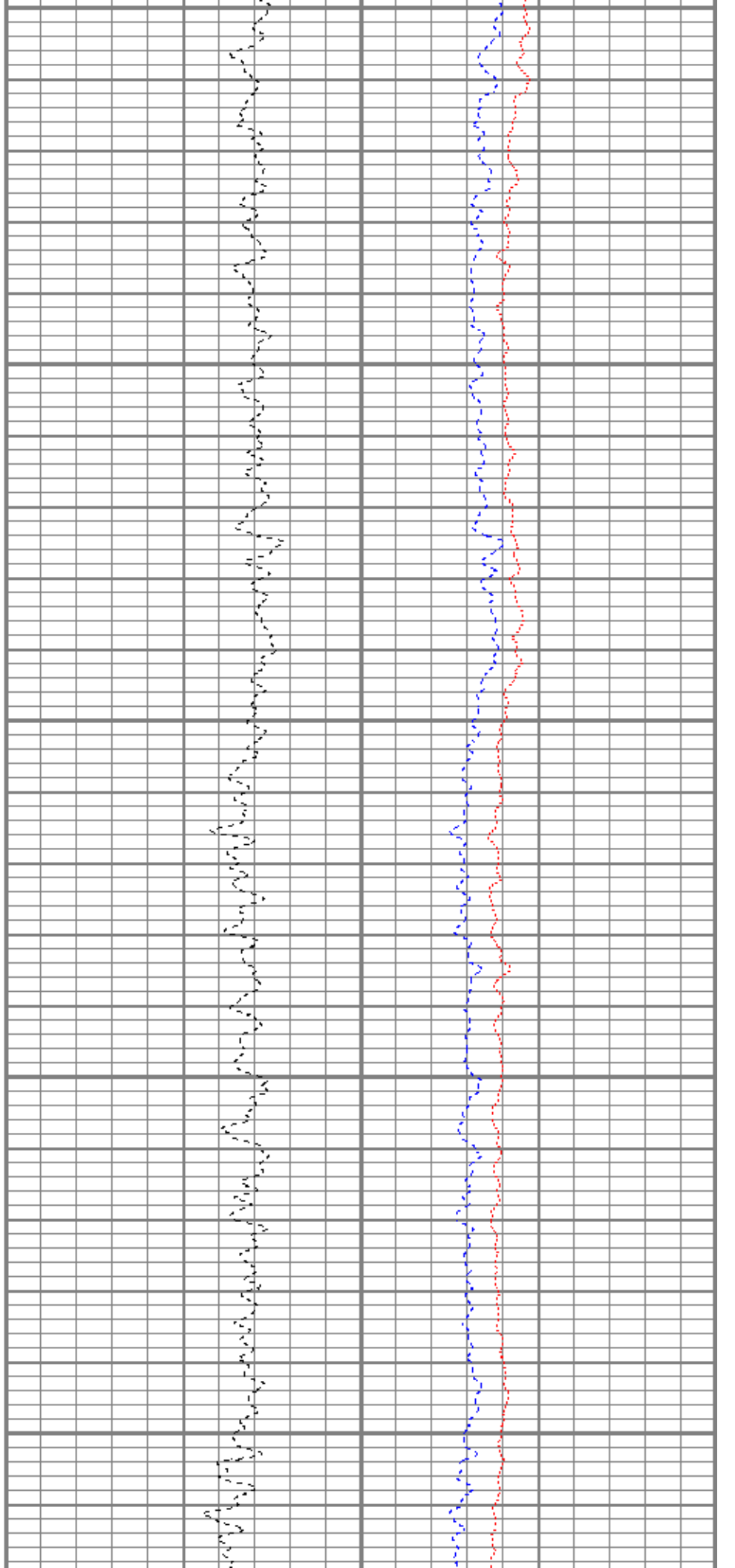
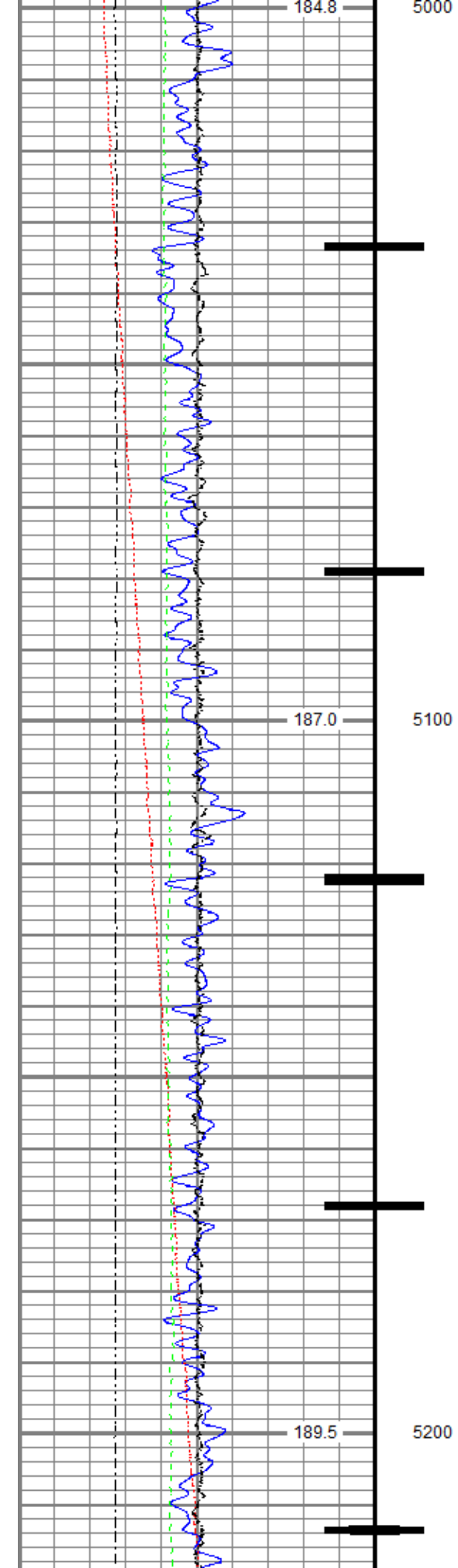


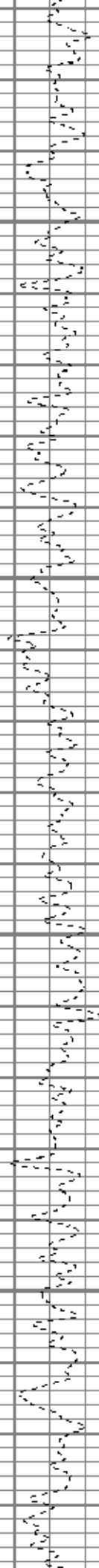
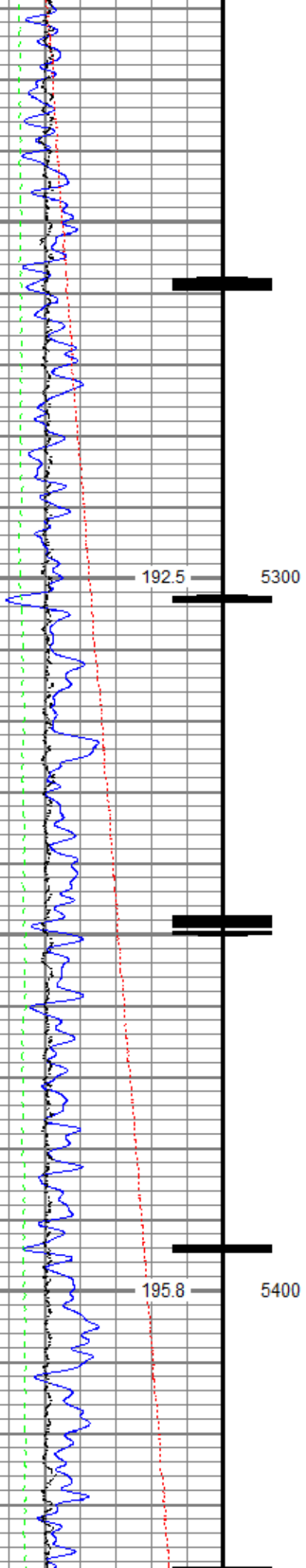


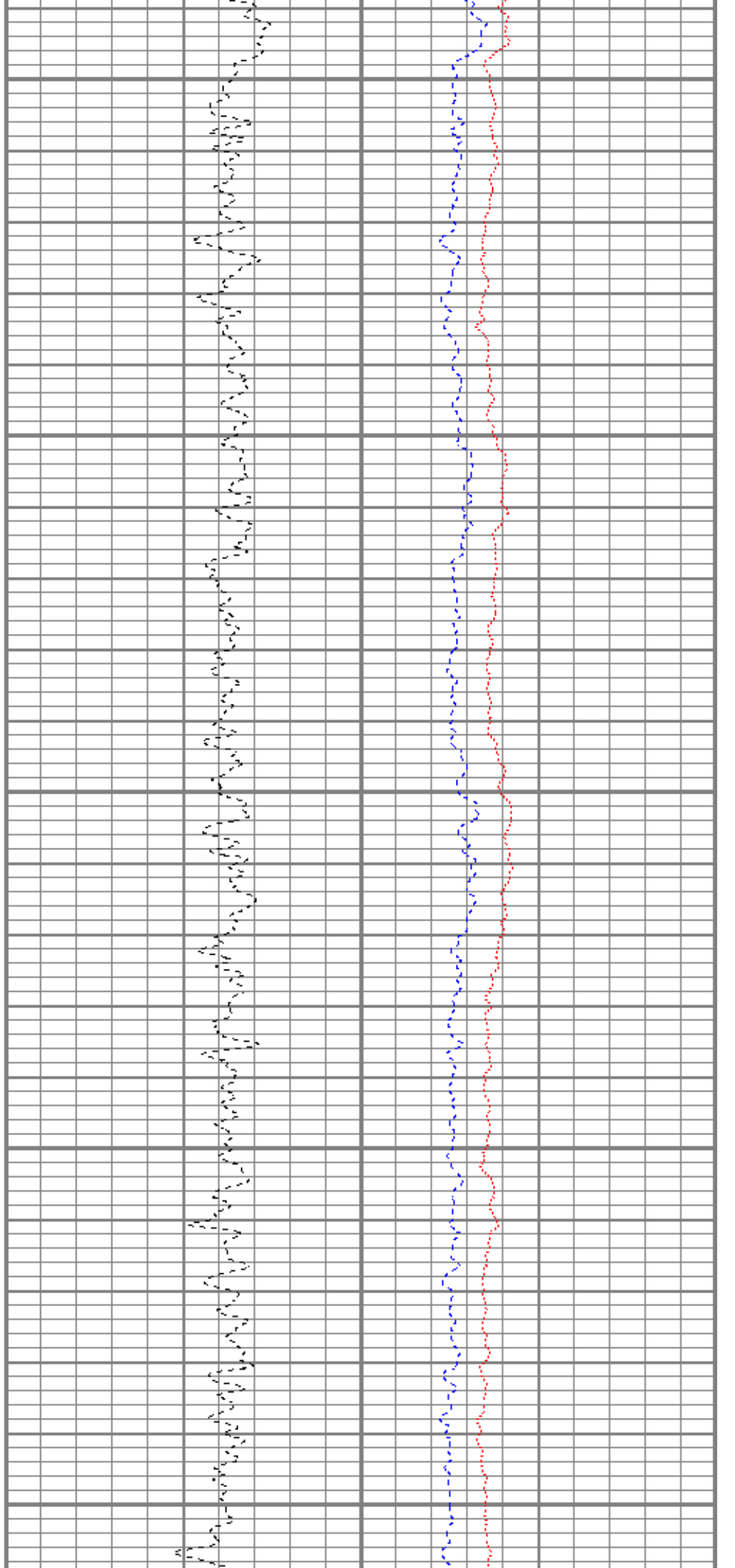
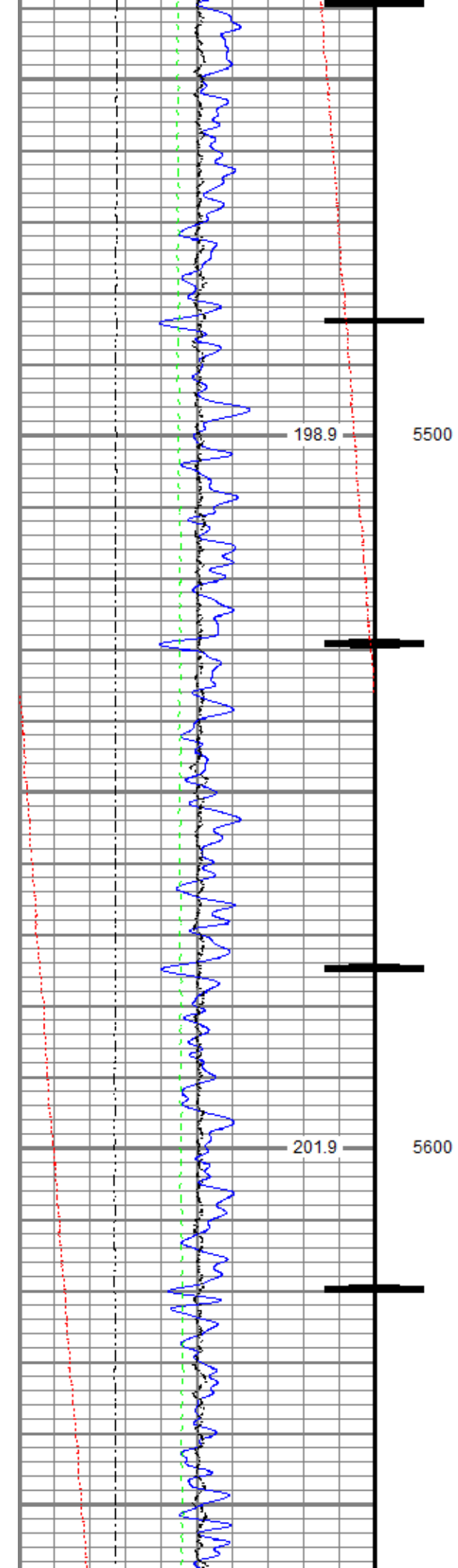


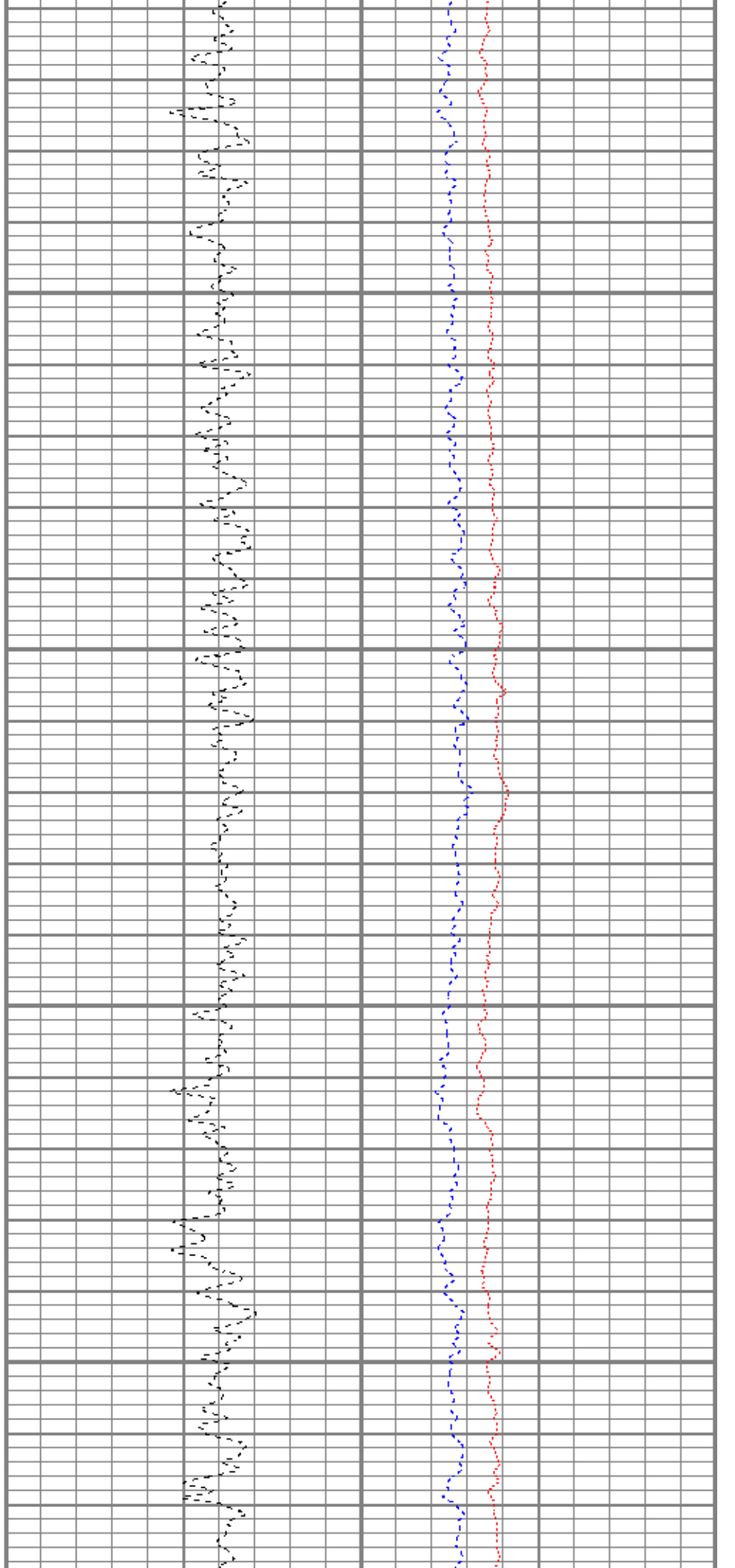
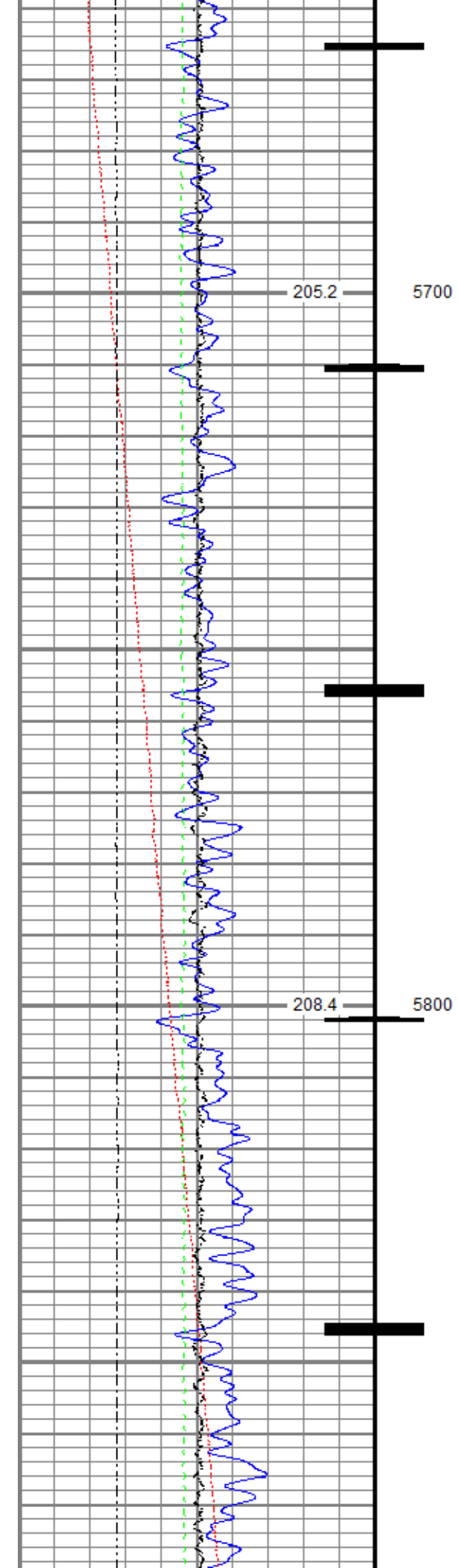


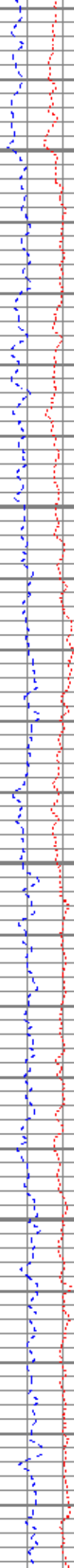
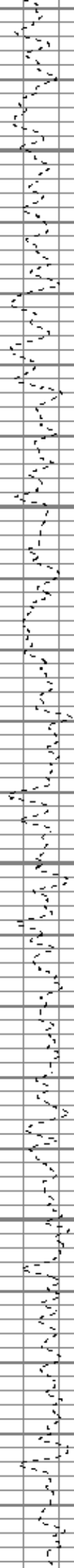
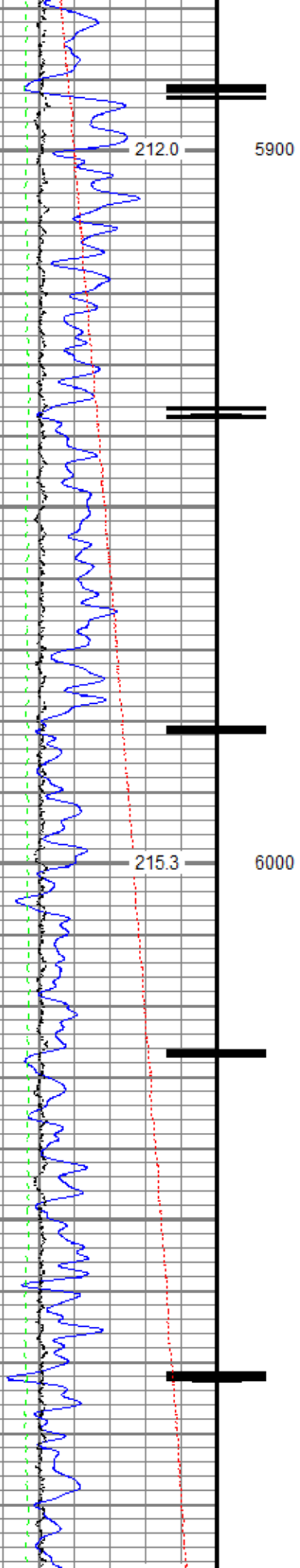


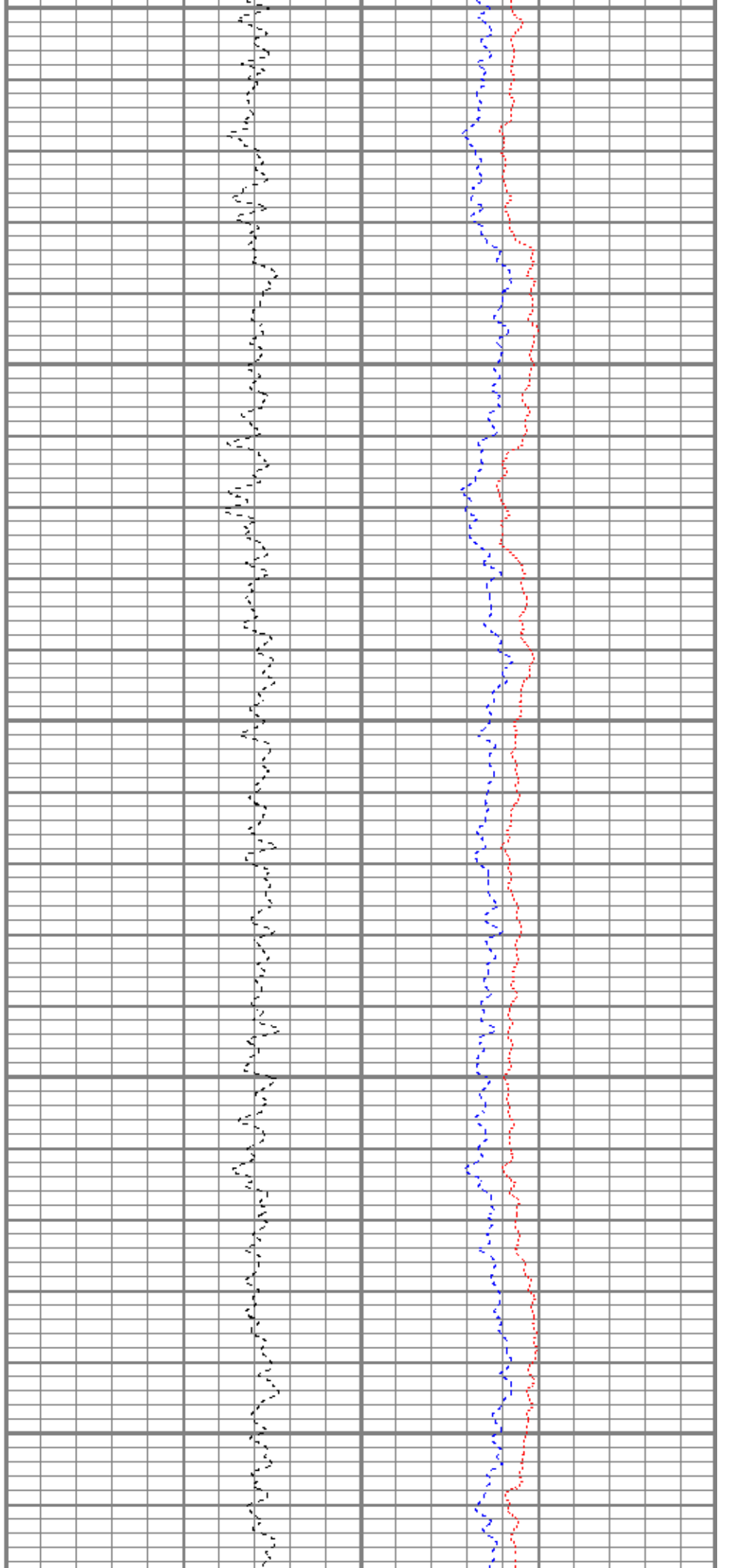
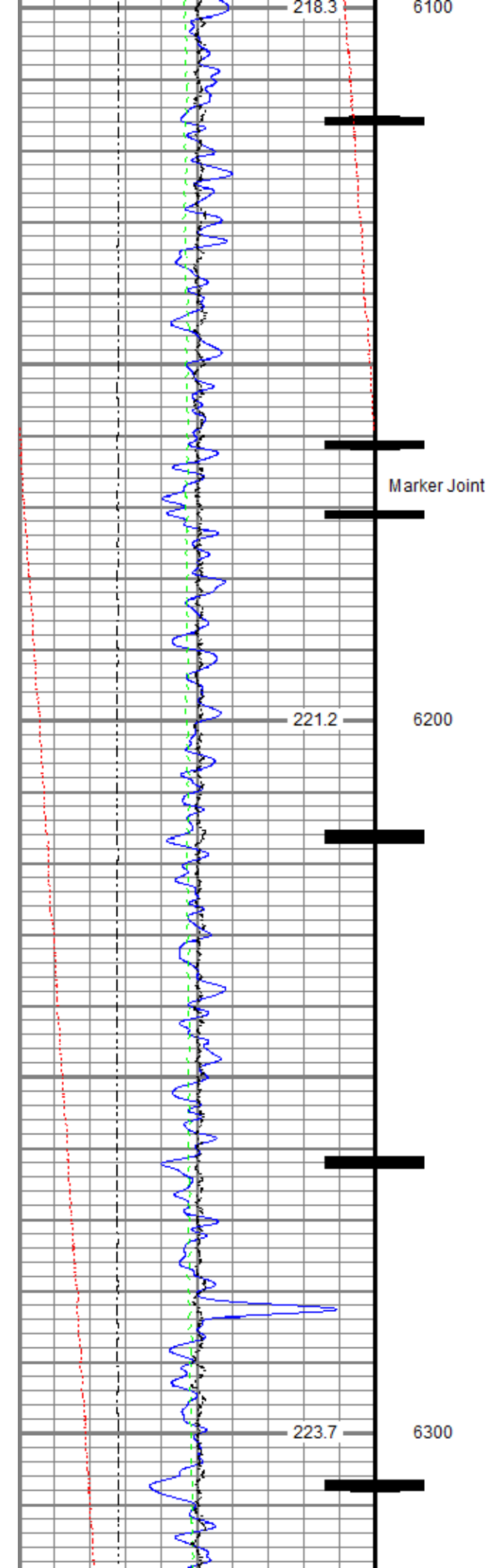


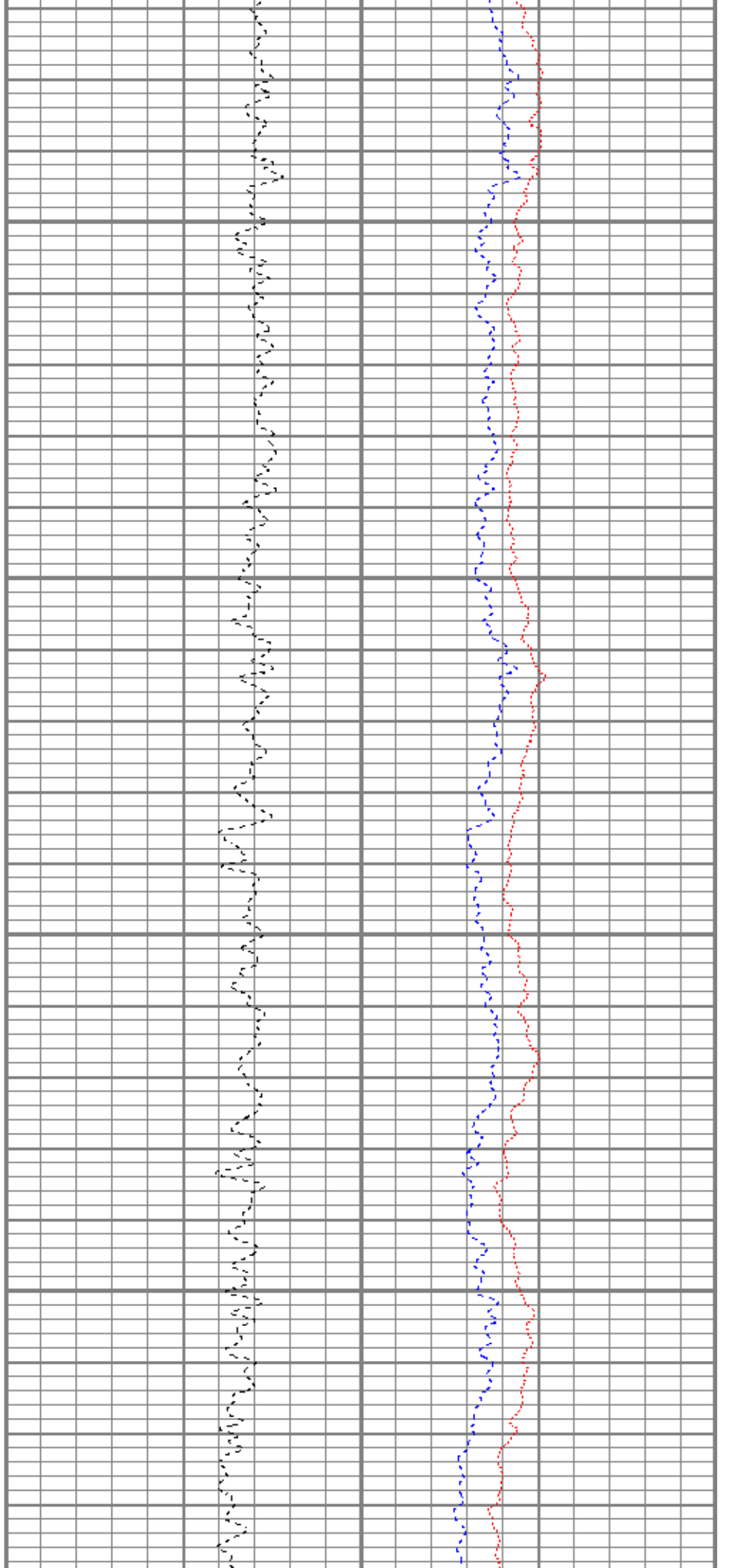
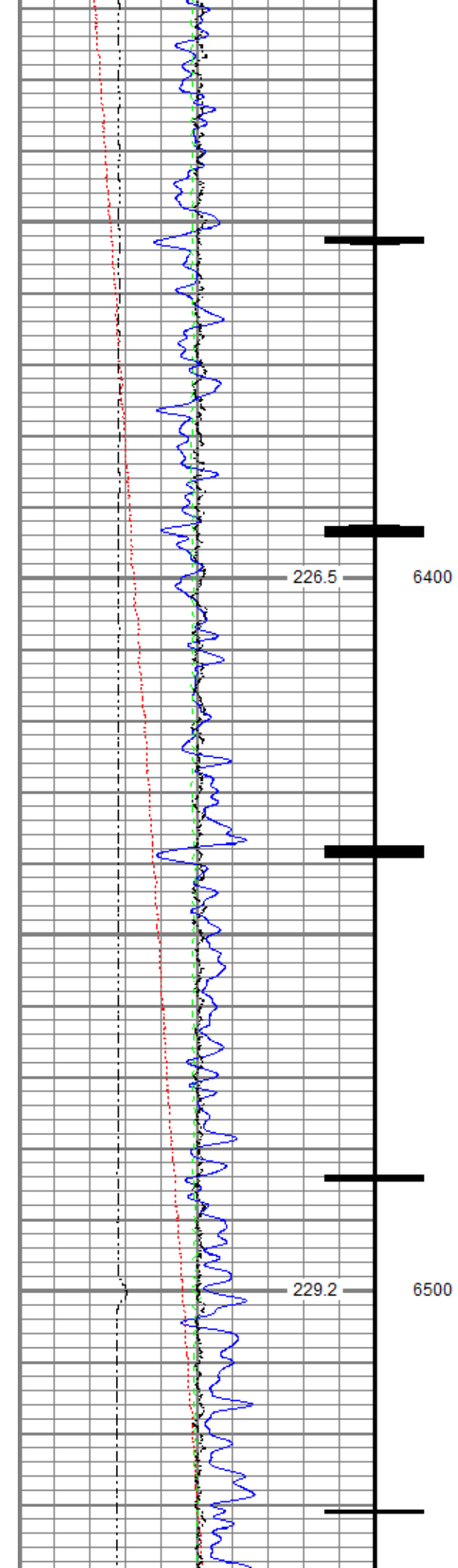


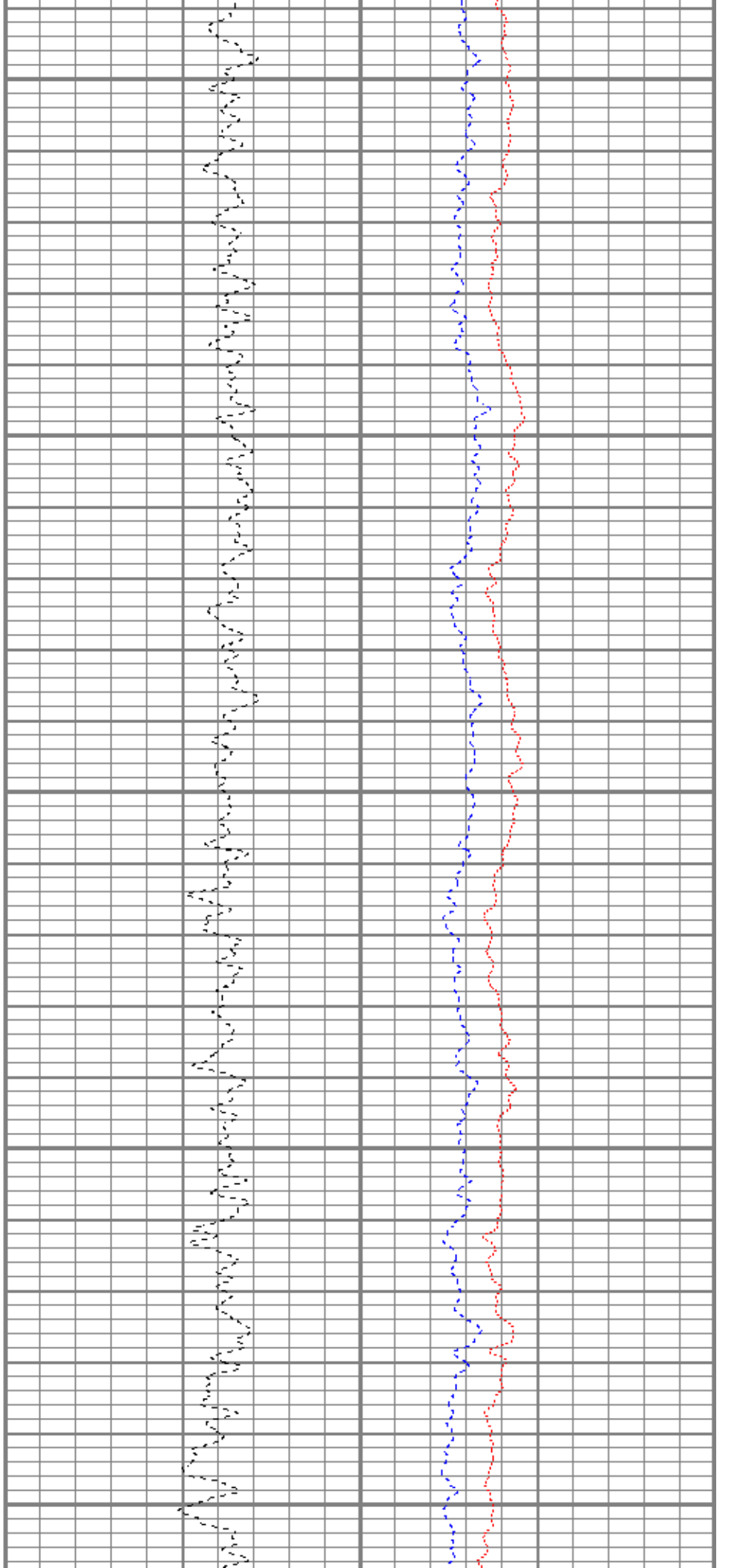
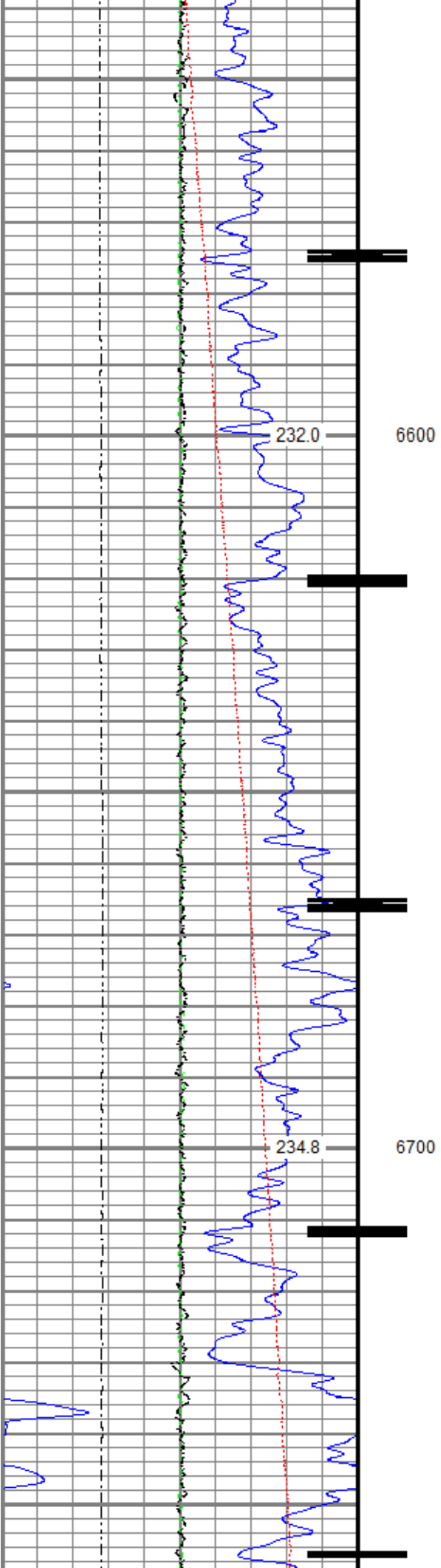


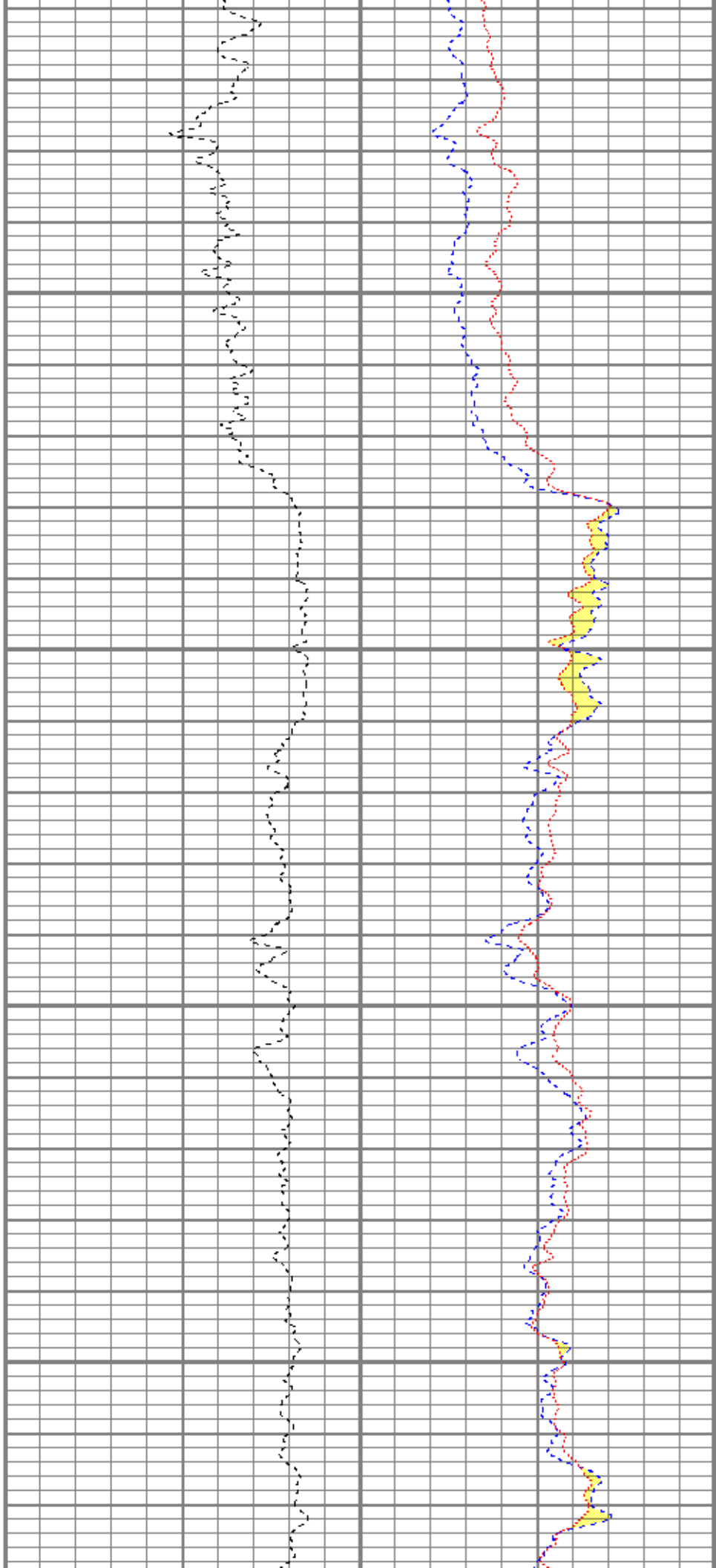
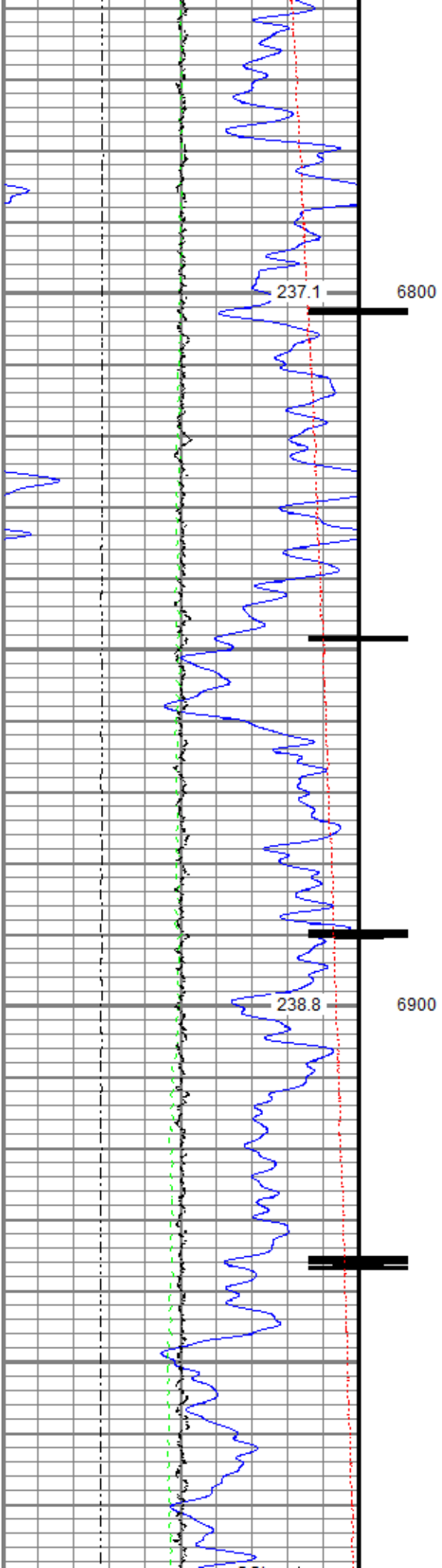


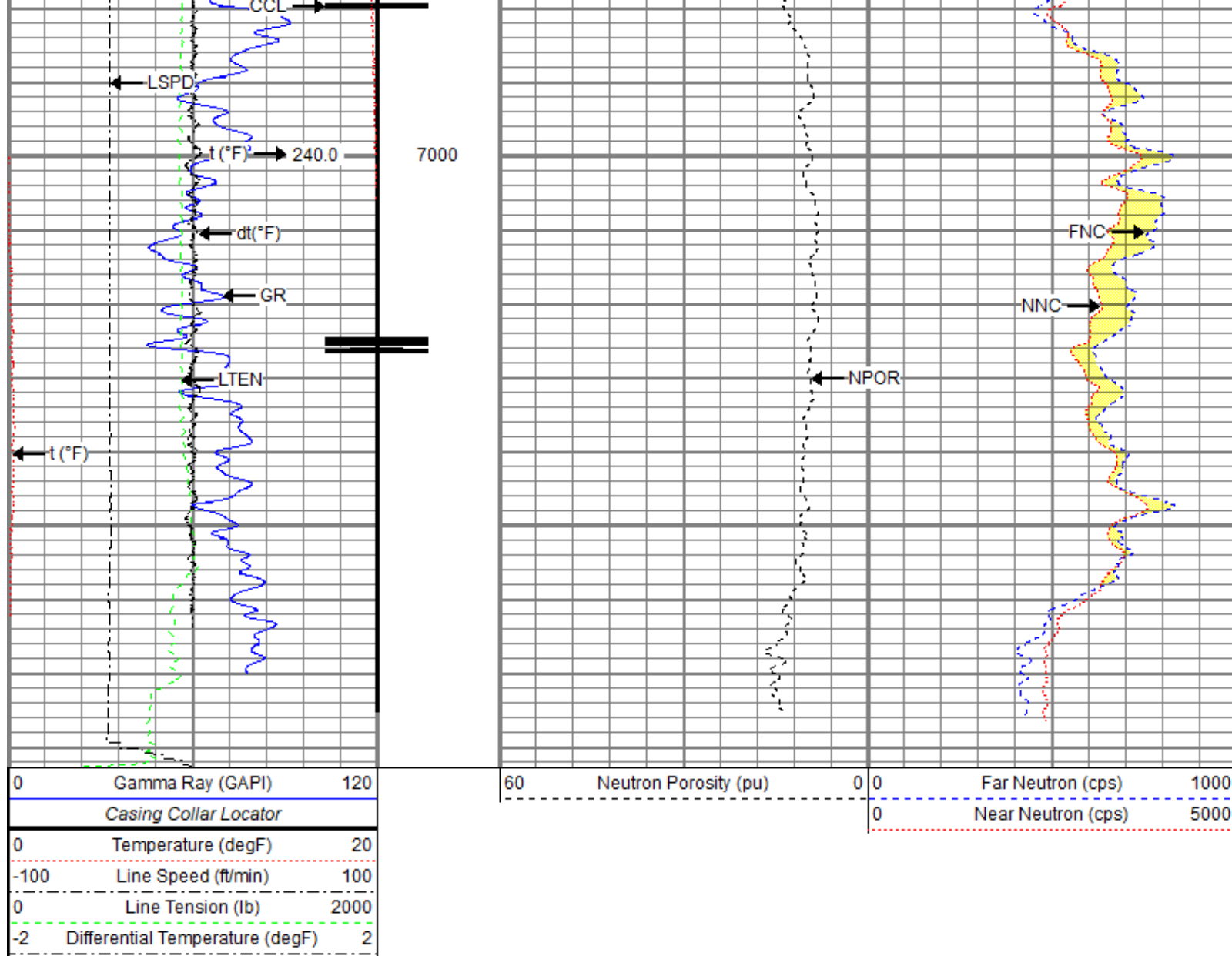








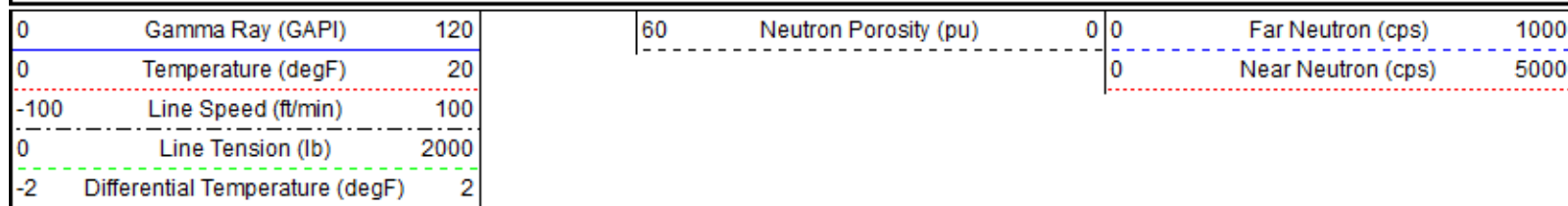




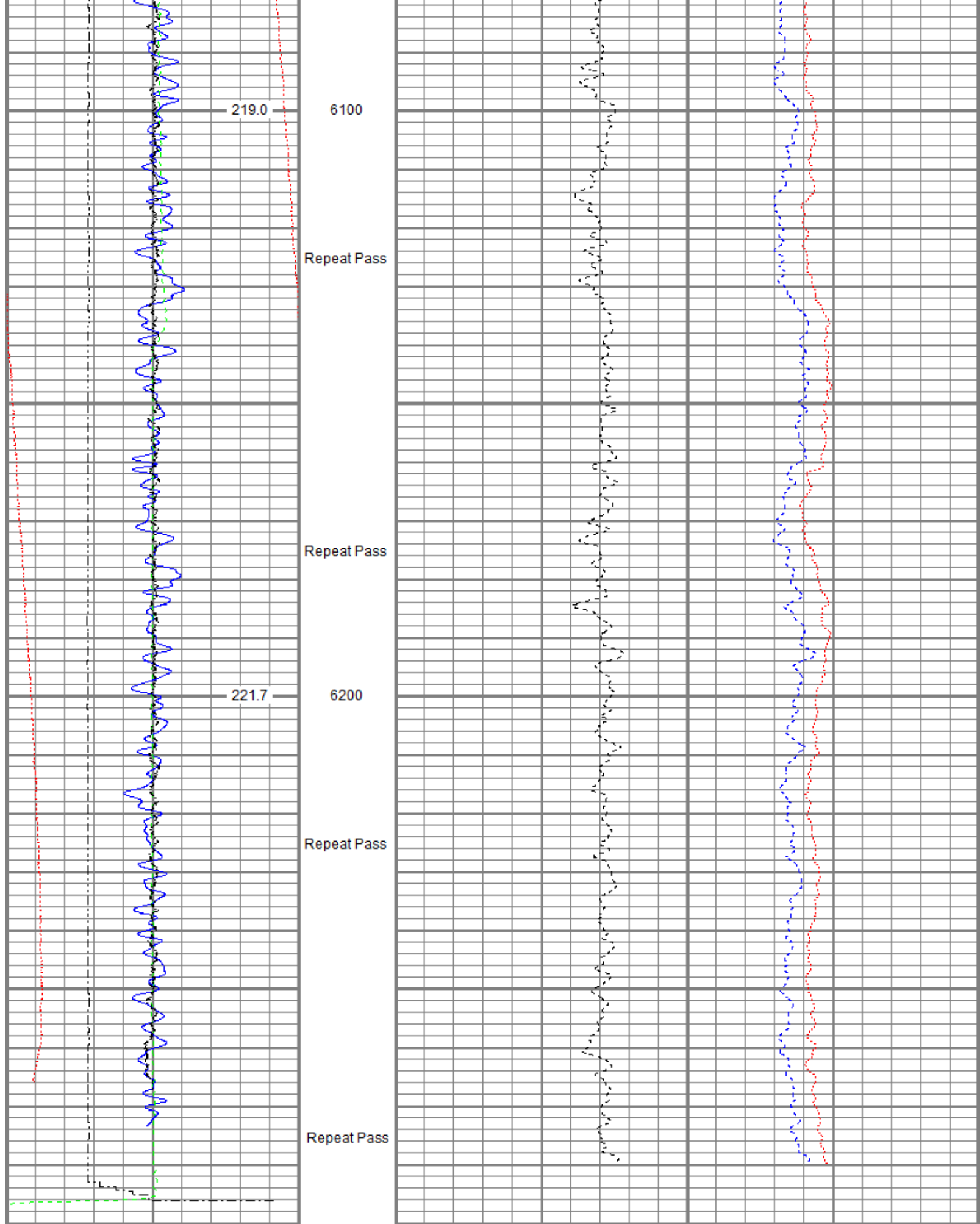
Repeat Pass

Recorded With 2500 PSI Surface Induced Pressure

Database File noble_guttersen d09 755\nobles_guttersen d09 755_cnl_12-19-20.db
 Dataset Pathname pass2
 Presentation Format ros_cnl_probe
 Dataset Creation Sat Dec 19 09:01:45 2020
 Charted by Depth in Feet scaled 1:240



Repeat Pass



0	Gamma Ray (GAPI)	120	60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
0	Temperature (degF)	20				0	Near Neutron (cps)	5000
100	Line Speed (#/min)	100						

100	Line Speed (ft/min)	100
0	Line Tension (lb)	2000
-2	Differential Temperature (degF)	2

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ErrCt	23.14		Titan CHD-16875 GO Titan 1-11/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
RBT_HV	22.10					
TEMP	19.20		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
RBT_ACCZ	16.96		Probe Radii ACC-2750 RBTa (FW1302-002) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub and Accelerometer	9.39	2.75	105.00
RBT_ACCY	16.96					
RBT_ACCX	16.96					
WVFSYNC	16.96					
WVFS8	16.96					
WVFS7	16.96					
WVFS6	16.96					
WVFS5	16.96					
WVFS4	16.96					
WVFS3	16.96					
WVFS2	16.96					
WVFS1	16.96					
WVFCAL	16.96					
WVF3FT	16.96		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
WVF5FT	15.96					
CCL\$2	11.83		Probe GR-CCL-2750 6PB (FW1810-001) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
CCL\$1	11.83					
GR	10.50					
CNLS	4.53		Probe CN-2750 BL (FW1308-020_A1483) Probe 2-3/4" Compensated Neutron with Bottom Load	5.03	2.75	60.00
CNSSC	4.12					
LOCTIM	0.00		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
UTCTIM	0.00					

Dataset:	Noble_Guttersen D09 755_CNL_12-19-20.db: field/well/run1/pass4.1
Total length:	23.14 ft
Total weight:	276.40 lb
O.D.:	3.25 in

Calibration Report

Database File	C:\ProgramData\Warrior\Data\Noble_Guttersen D09 755\Noble_Guttersen D09 755_CNL_12-19-20.db
Dataset Pathname	pass4.1
Dataset Creation	Sat Dec 19 12:09:57 2020

Compensated Neutron Calibration Report

Model:	Probe CN - 2750 BL
Serial Number:	FW1308-020_A1483

SHOP CALIBRATION

Tue Dec 03 09:24:53 2019

	Cal Tube	Units
Tank Ratio	6.7797	SS/LS
LS Detector	452.04	cps
SS Detector	3241.60	cps
Tool Ratio	7.1710	SS/LS
Tool Gain	0.9454	---

PRE-SURVEY VERIFICATION

SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)
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POST-SURVEY VERIFICATION

SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)
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Gamma Ray Calibration Report

Serial Number:	FW1810-001
Tool Model:	2750 6PB
Performed:	Tue Dec 03 09:24:53 2019
Calibrator Value:	637.0 GAPI
Background Reading:	100.1 cps
Calibrator Reading:	1264.5 cps
Sensitivity:	0.5471 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1302-002
Tool Model:	2750 RBTa
Calibration Casing Diameter:	5.500 in
Calibration Depth:	-6.608 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.630	0.800	71.921	113.059	0.746

CAL	0.006	0.665				
5'	0.000	0.567	0.800	71.921	125.549	0.784
SUM						
S1	0.000	0.590	0.000	100.000	169.593	-0.059
S2	0.001	0.649	0.000	100.000	154.281	-0.081
S3	0.001	0.727	0.000	100.000	137.619	-0.086
S4	0.000	0.699	0.000	100.000	143.145	-0.068
S5	0.000	0.653	0.000	100.000	153.268	-0.057
S6	0.000	0.612	0.000	100.000	163.553	-0.053
S7	0.000	0.591	0.000	100.000	169.242	-0.051
S8	0.000	0.583	0.000	100.000	171.615	-0.051

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.665	1.000	0.000

Air Zero Calibration, performed Sat Dec 19 07:44:50 2020:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Inclinometer Calibration Report

Performed:	Tue Dec 03 09:24:53 2019				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-891.00	891.00	-1.00	1.00	gee
Y Accelerometer	-899.00	877.00	-1.00	1.00	gee
Z Accelerometer	-7.47	873.36	0.00	1.00	gee

Temperature Calibration Report

Serial Number:	FW1302-002				
Tool Model:	2750 RBTa				
Performed:	Tue Dec 03 09:24:53 2019				
	Reference		Reading		
Low Reference:	100.00	degF	110.72	degF	
High Reference:	350.00	degF	409.18	degF	
Gain:	0.84				
Offset:	7.26				
Delta Spacing	1				



Company	Noble Energy Inc
Well	Guttersen D09-755
Field	Wattenberg
County	Weld
State	Colorado