



County Weld State Colorado

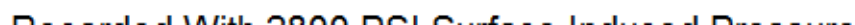
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Log ran as per customer request
Depth referenced to Kelly Bushing of 32 FT
Adjusted -6 FT to correlate with Kelly Bushing
Gauge Ring/Junk Basket ran to 7605 FT with no debris
Log ran from just above WRP
Recorded with 2800 PSI Surface Induced Pressure
Logging tools were clean and free of any debris upon completion of operations

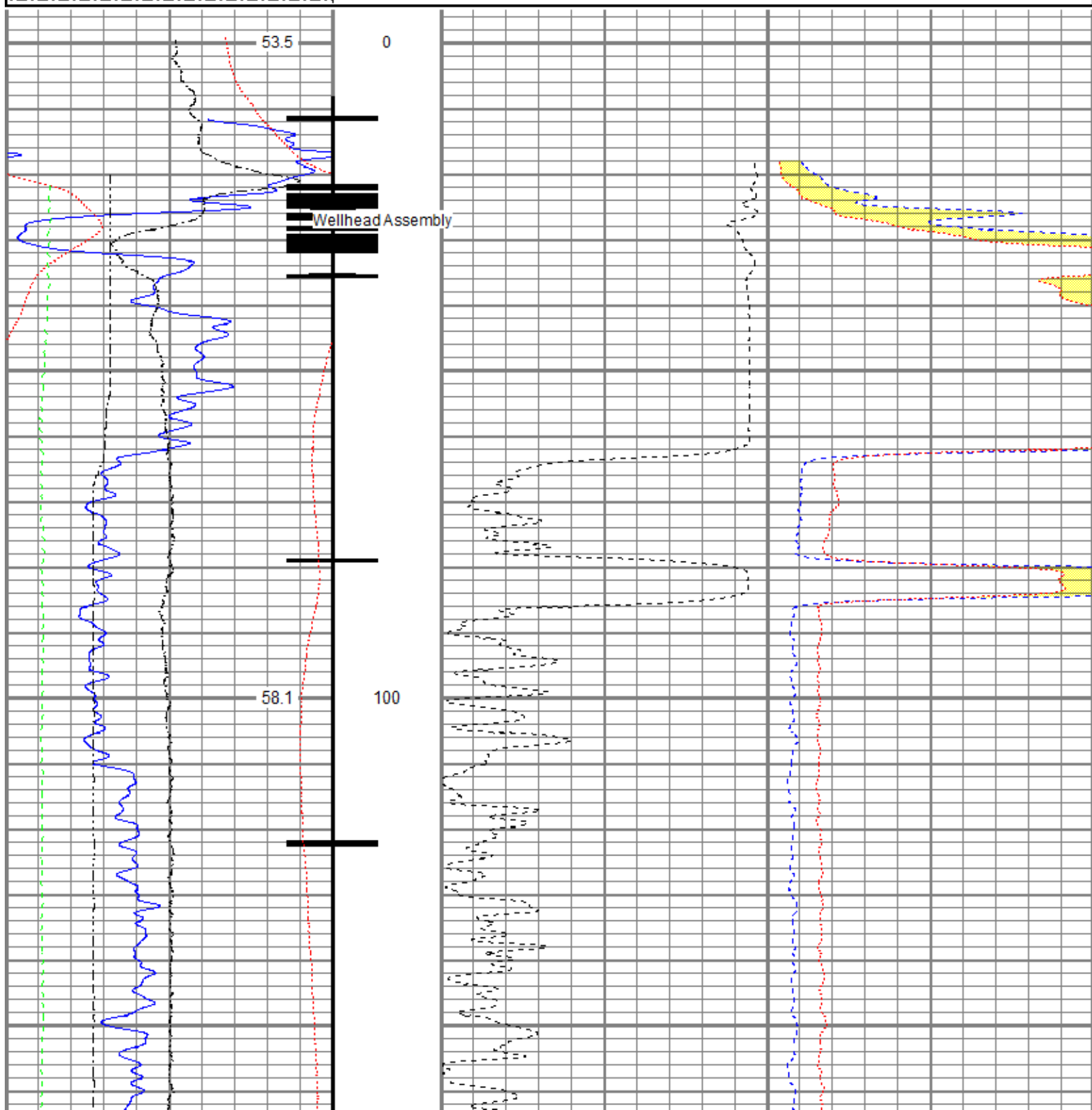
Thank you for choosing Reliance Oilfield Services, LLC!!

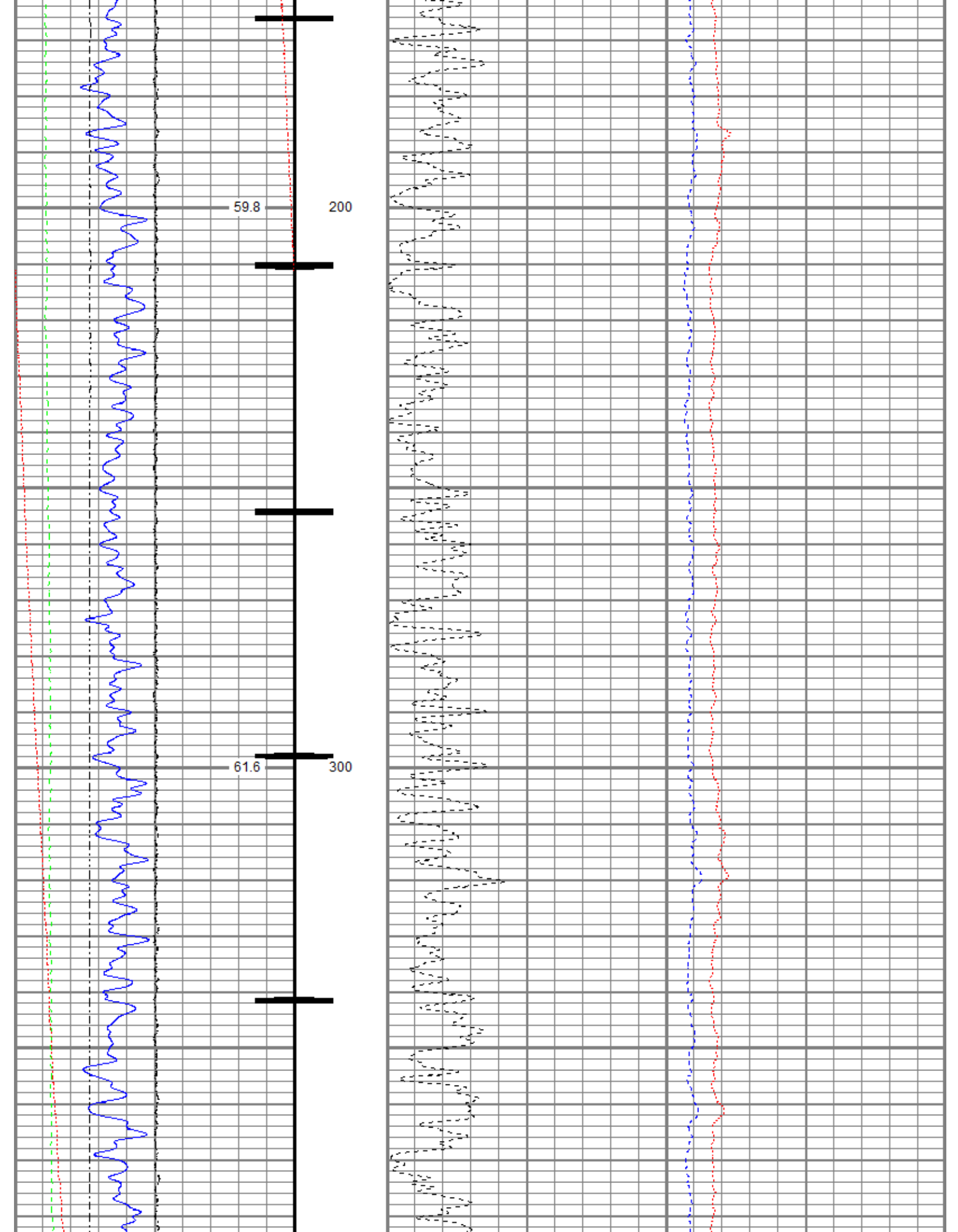
Main Pass

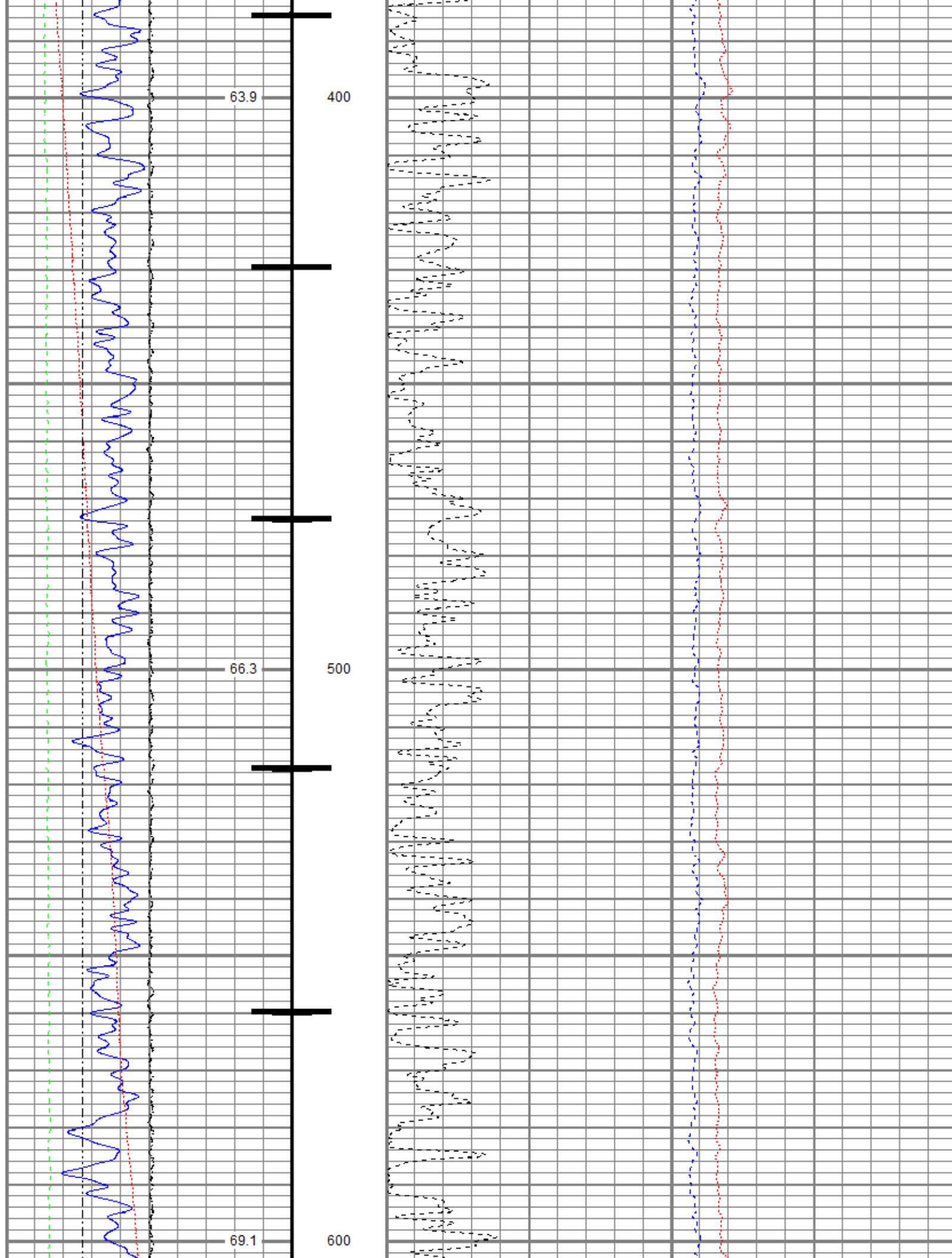


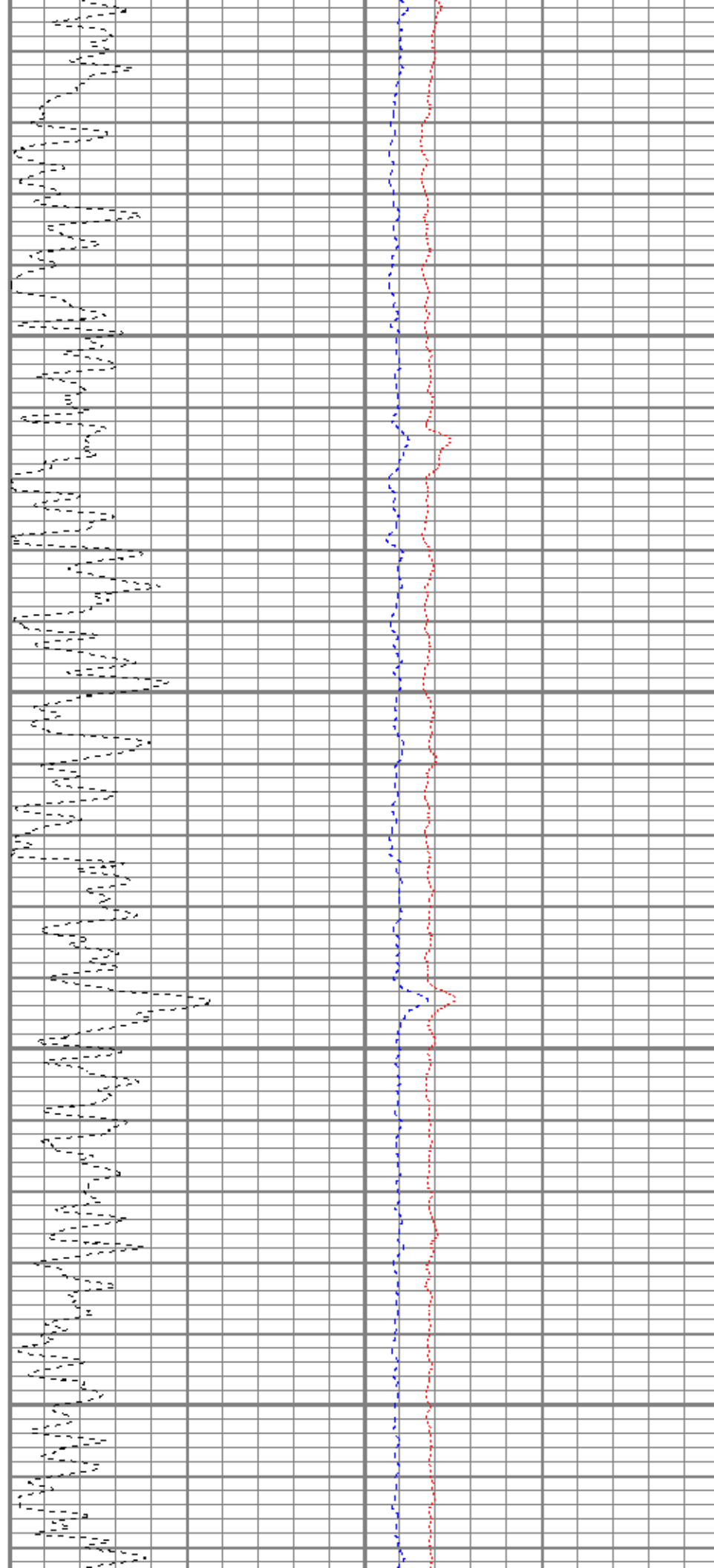
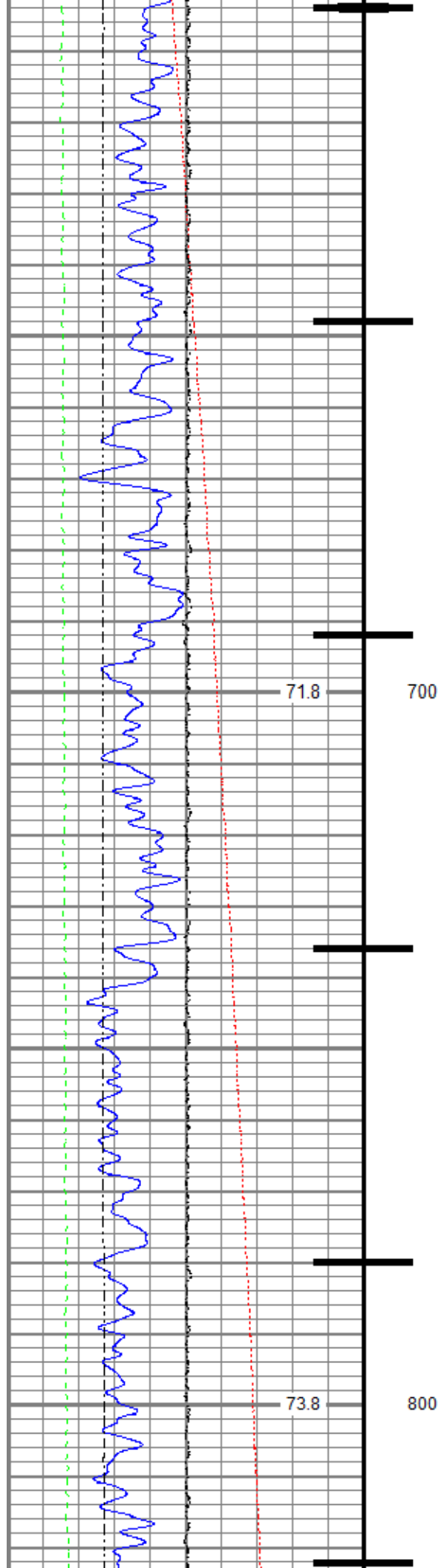
Database File	0512345248_anadarko_robin 9-14hz_rbl_cnl_01-04-18\0512345248_anadarko_robin 9-14hz_cnl_01-04-18.db
Dataset Pathname	pass9
Presentation Format	ros_cnl_probe
Dataset Creation	Fri Jan 05 09:17:22 2018
Charted by	Depth in Feet scaled 1:240

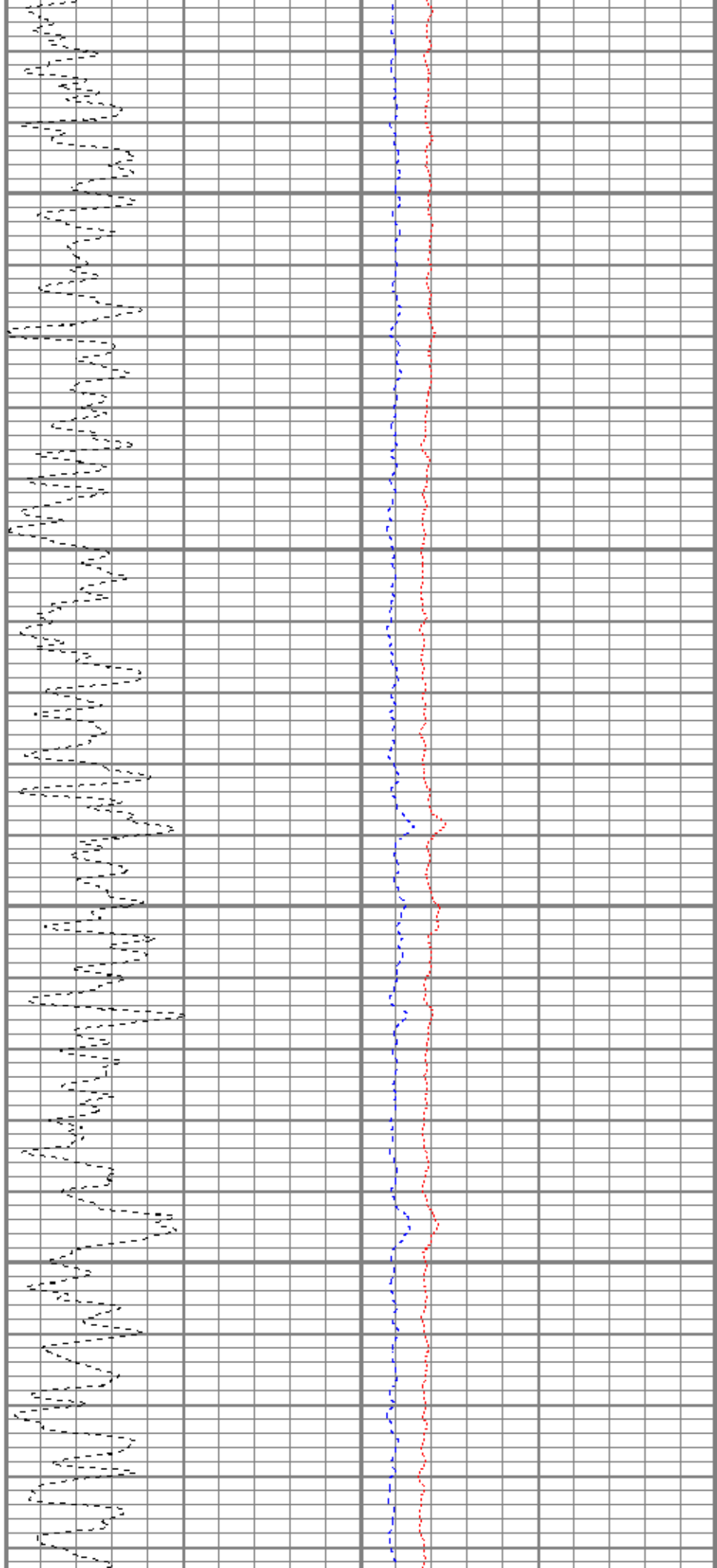
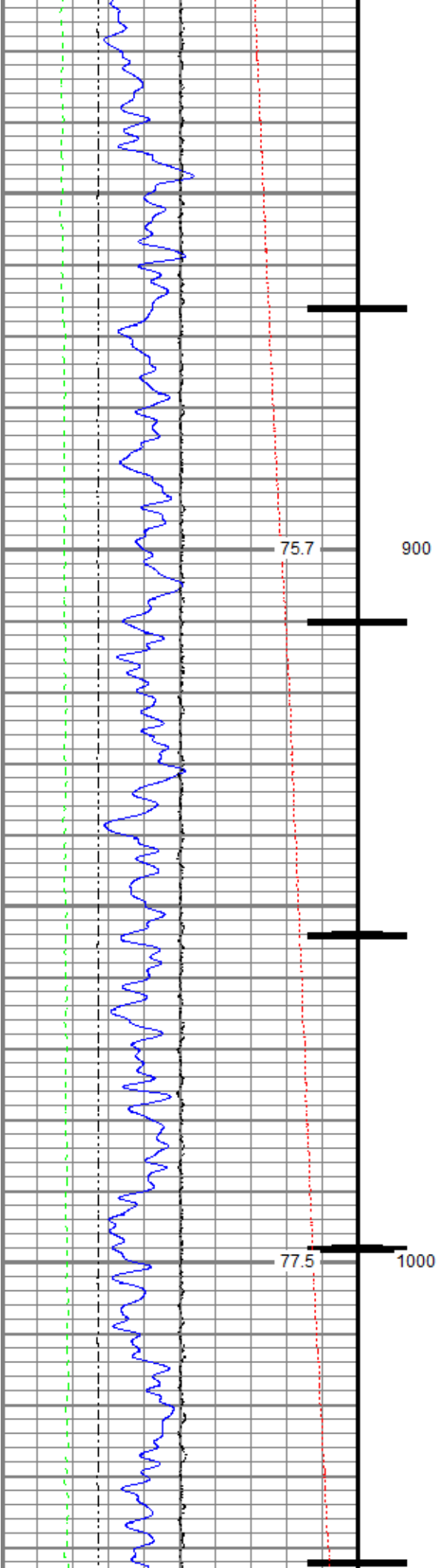
0	Gamma Ray (GAPI)	120	60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
Casing Collar Locator						0	Near Neutron (cps)	5000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

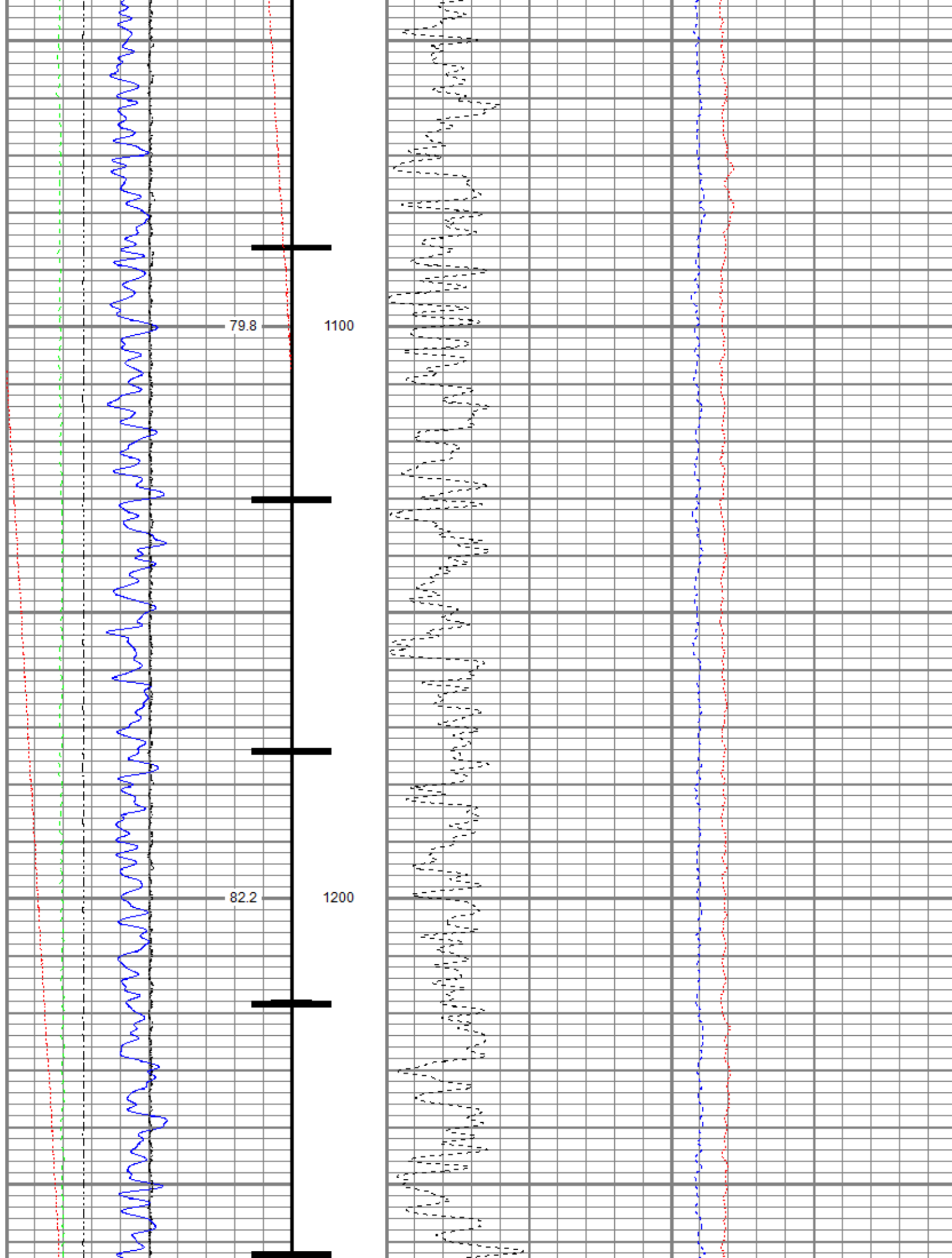


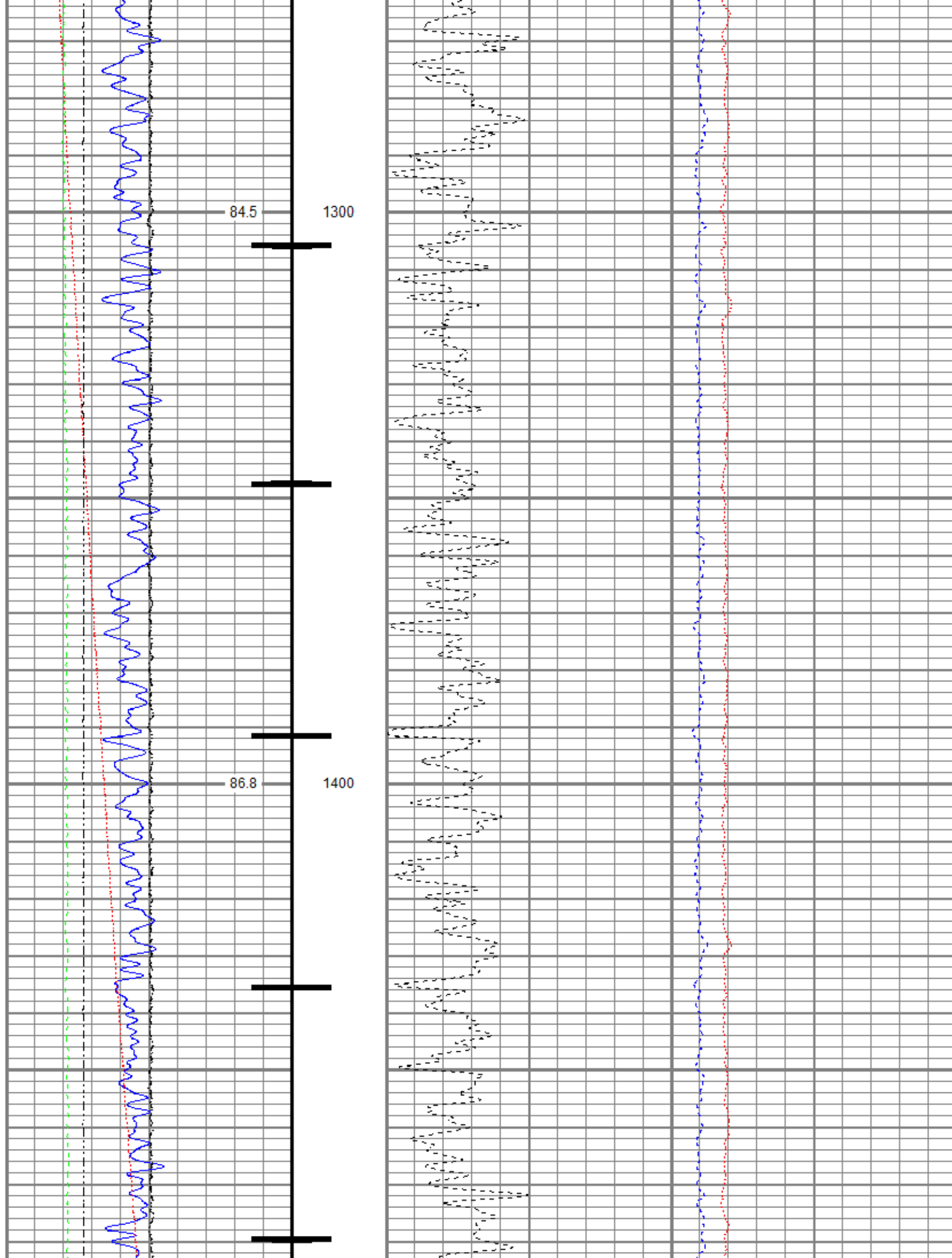


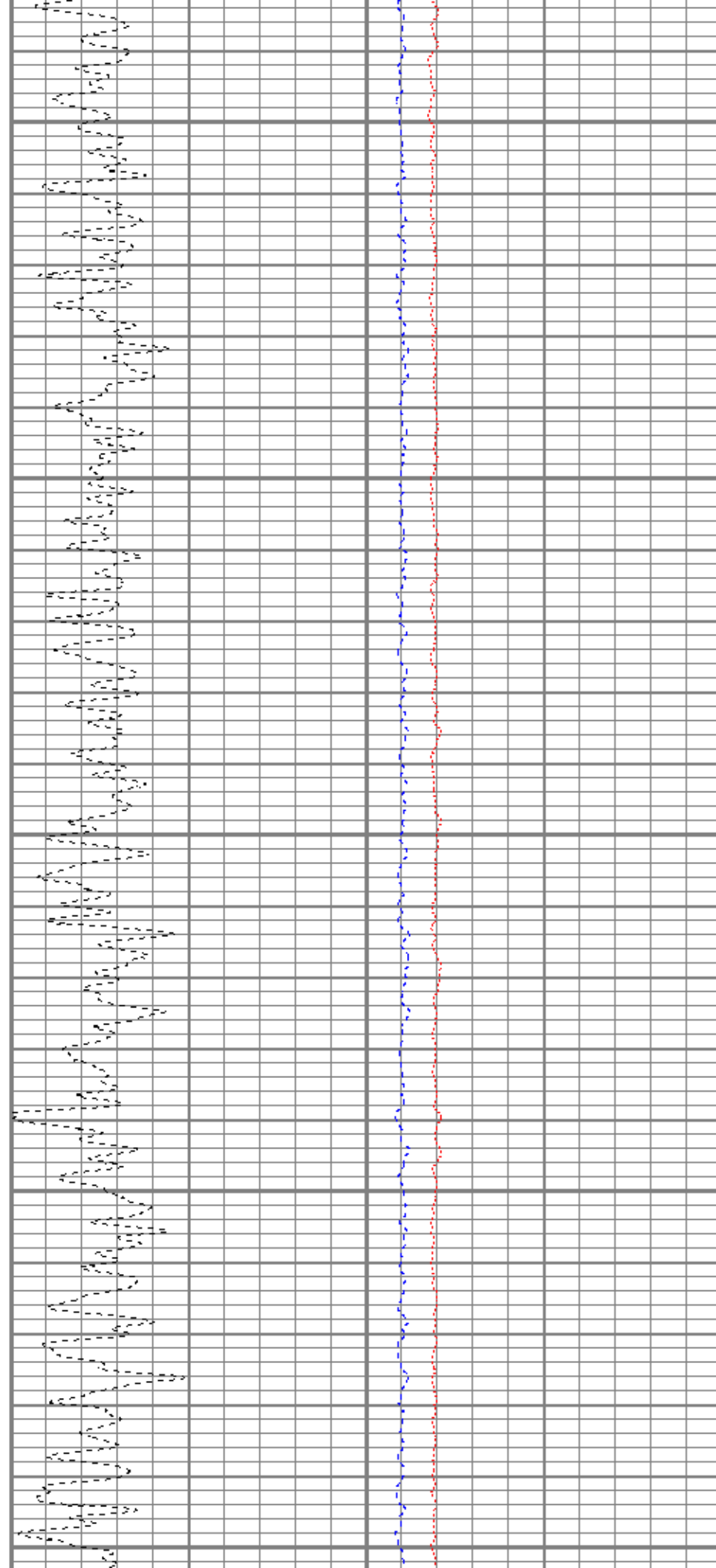
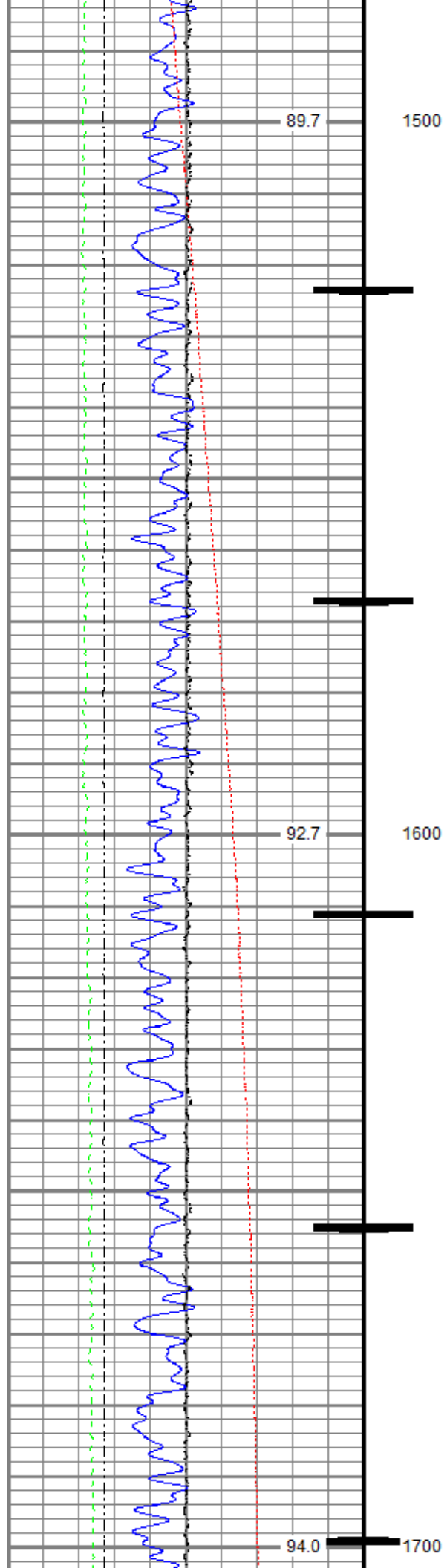


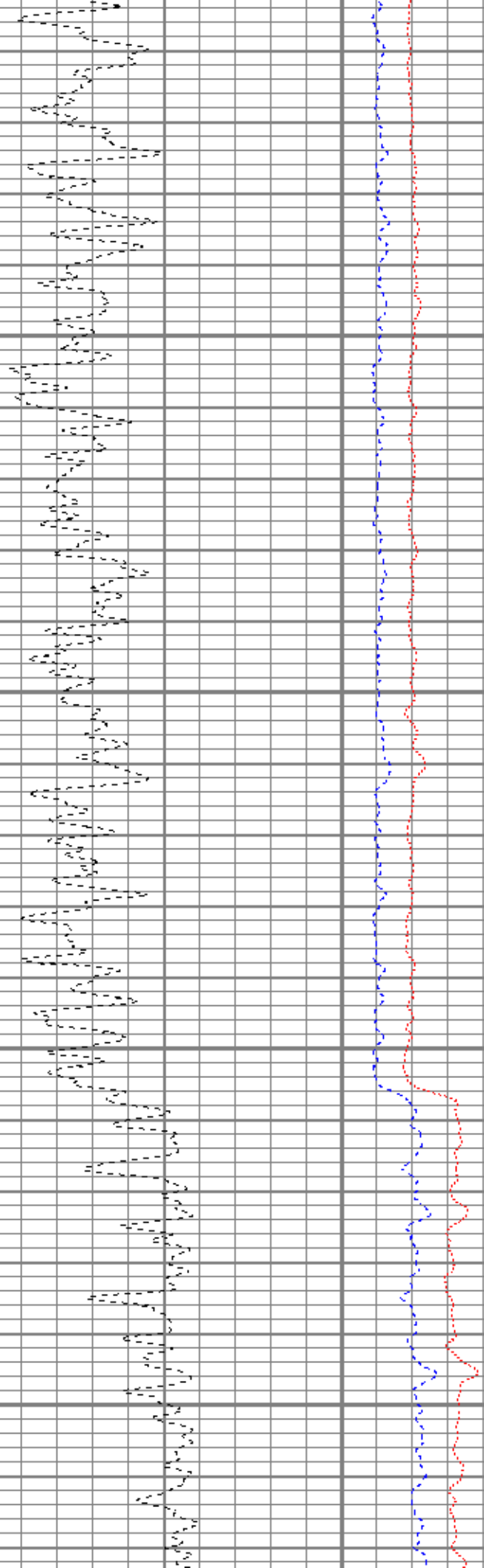
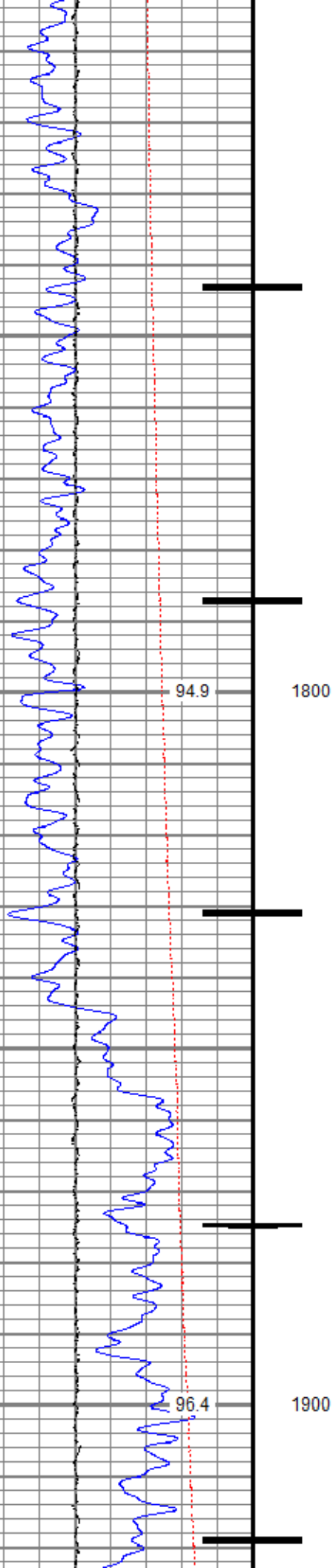


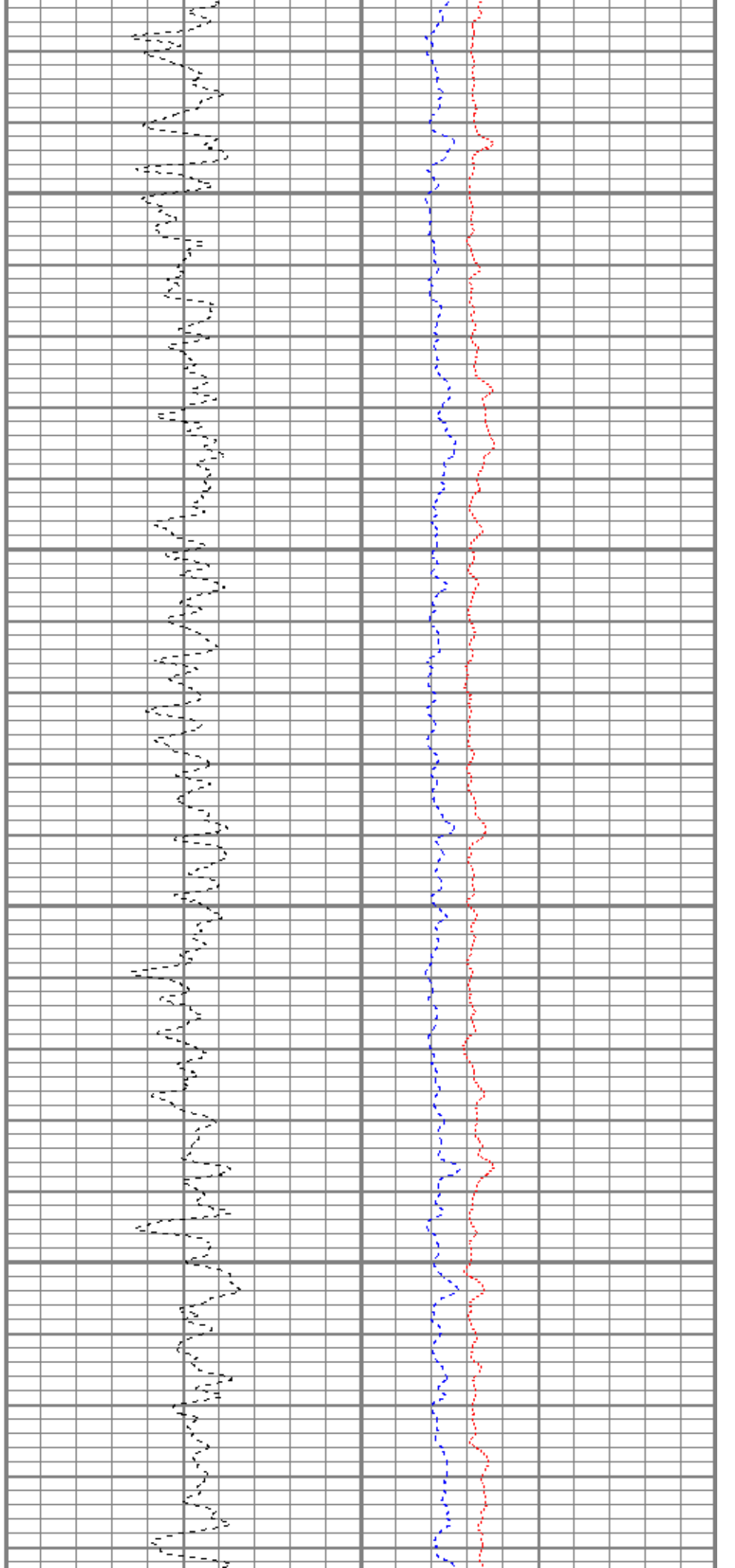
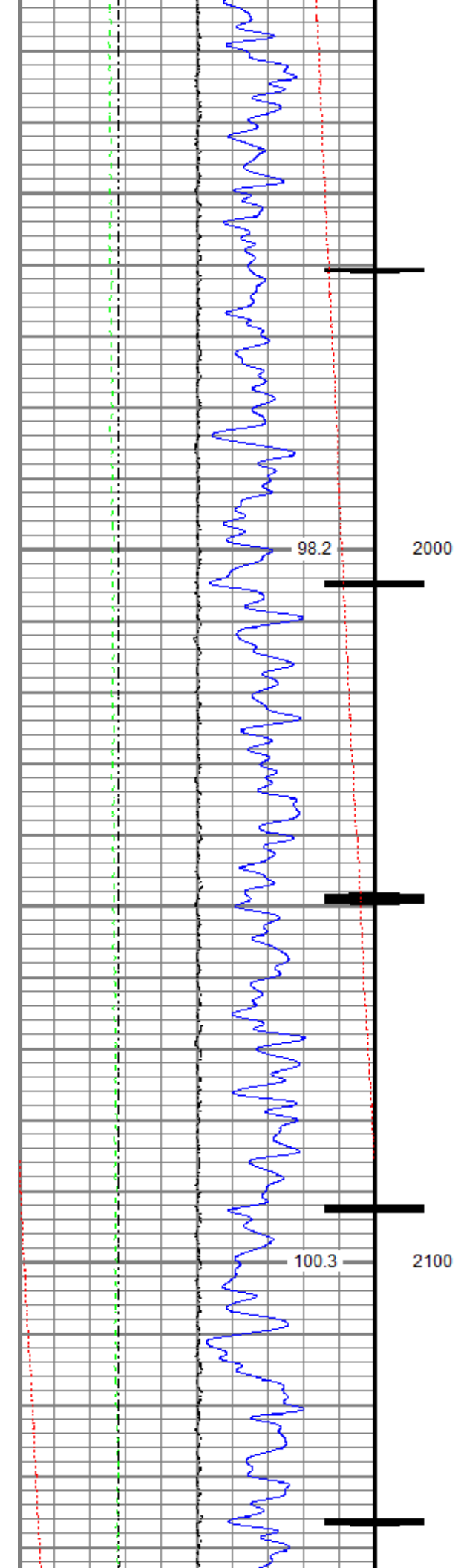


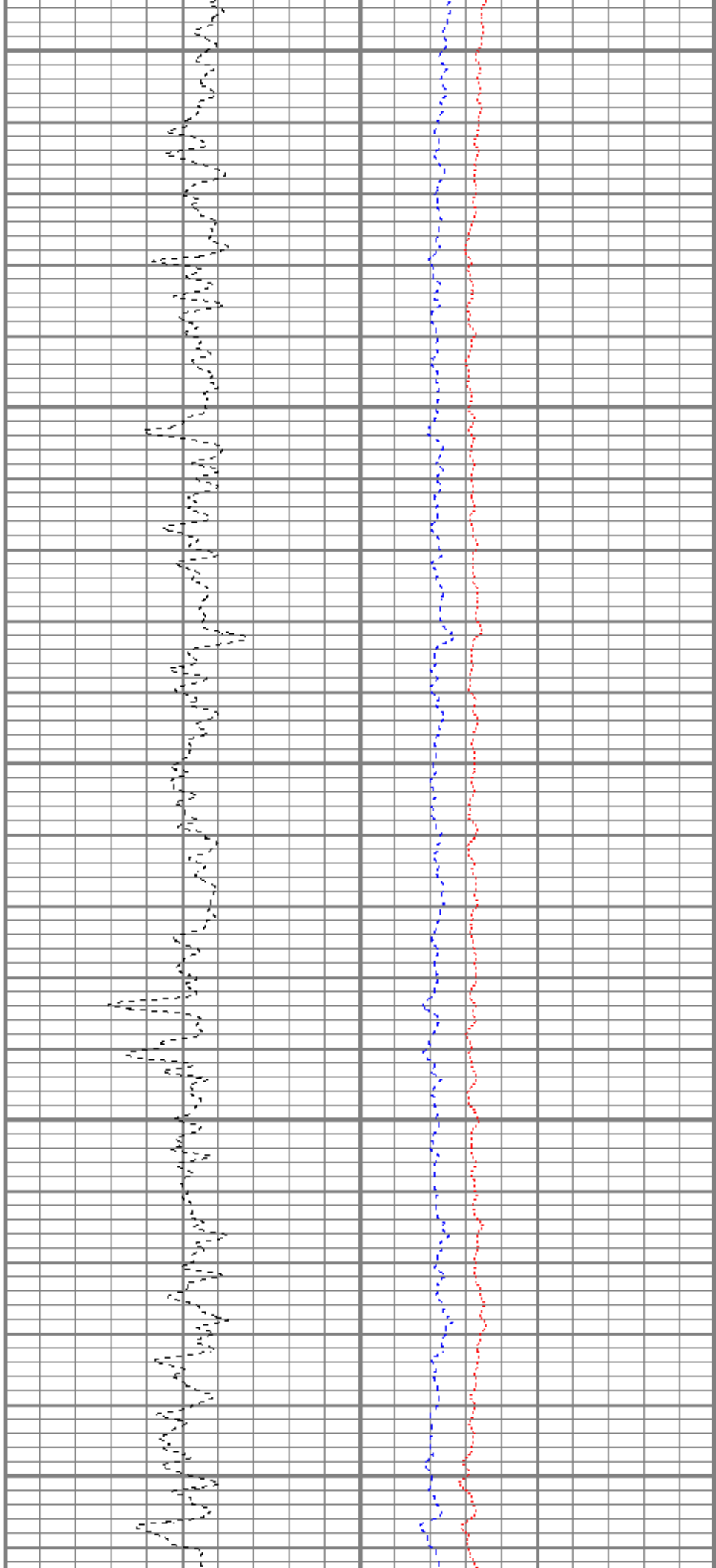
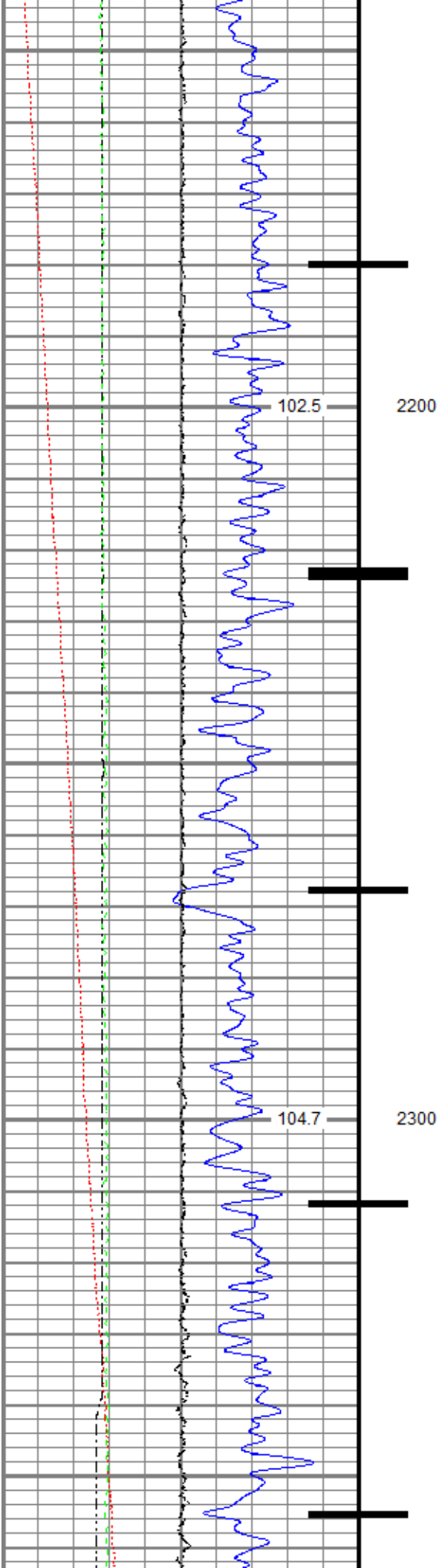


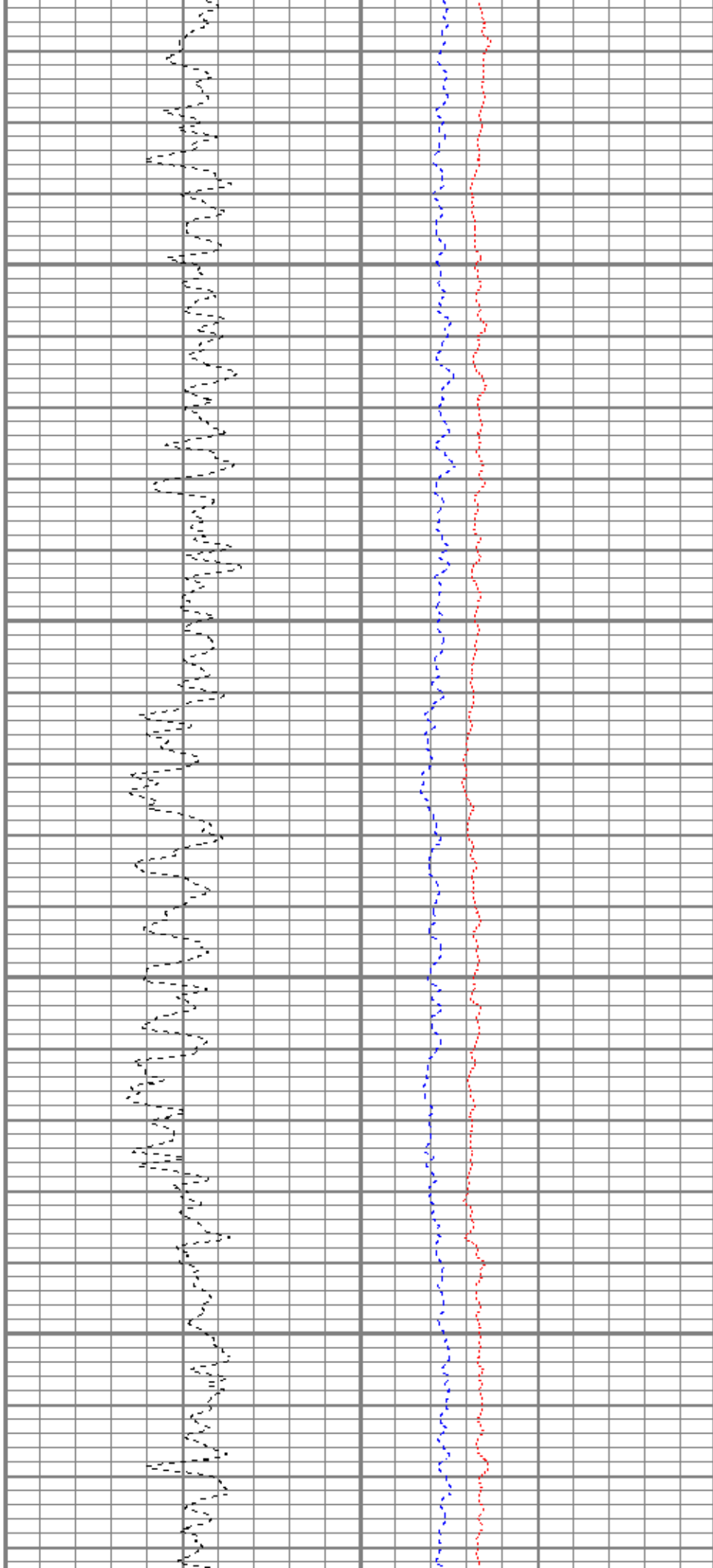
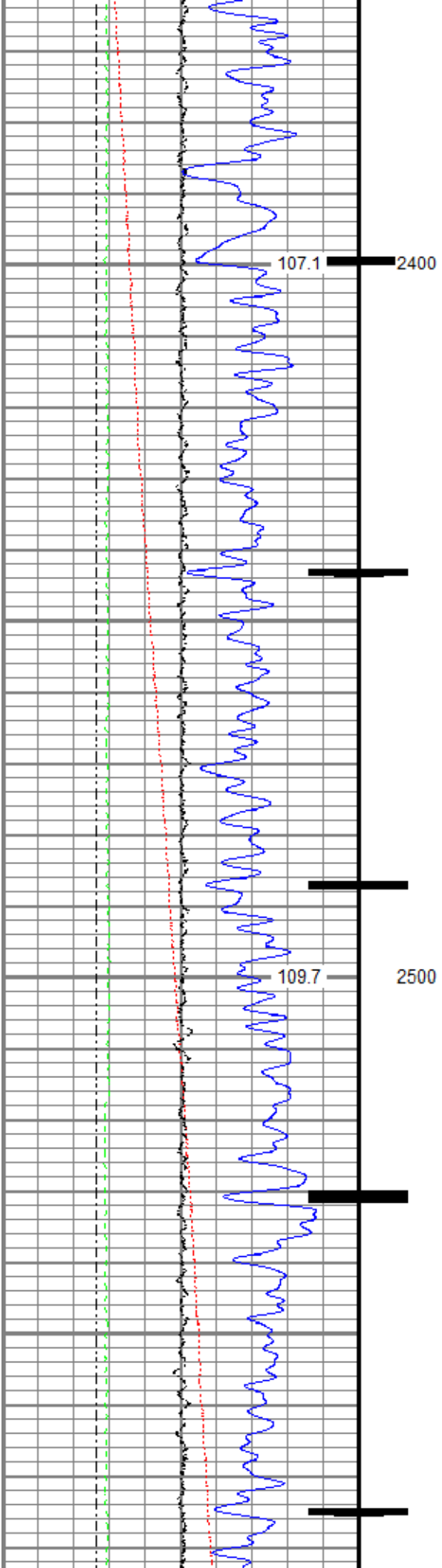


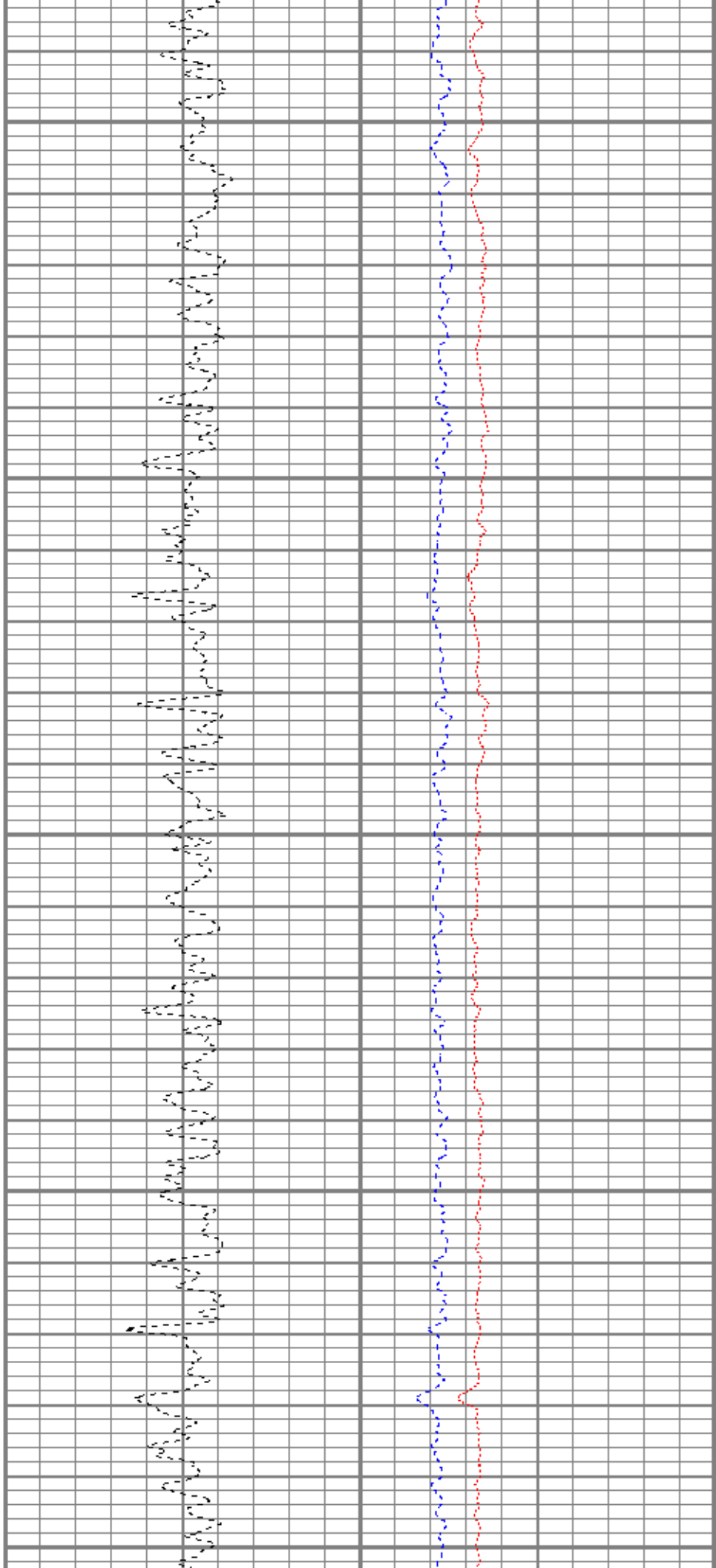
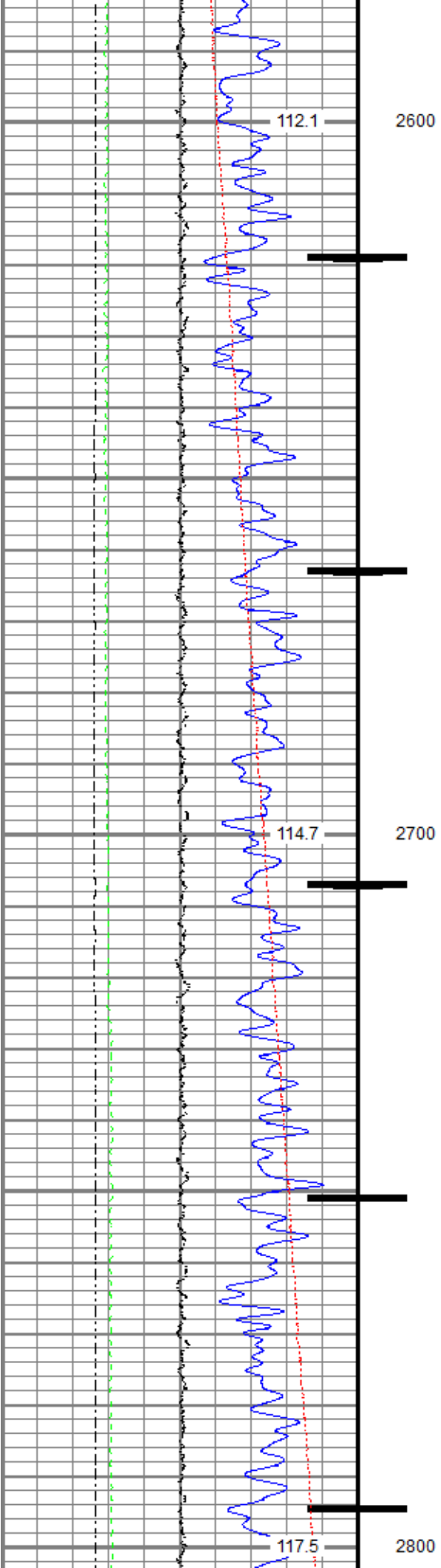


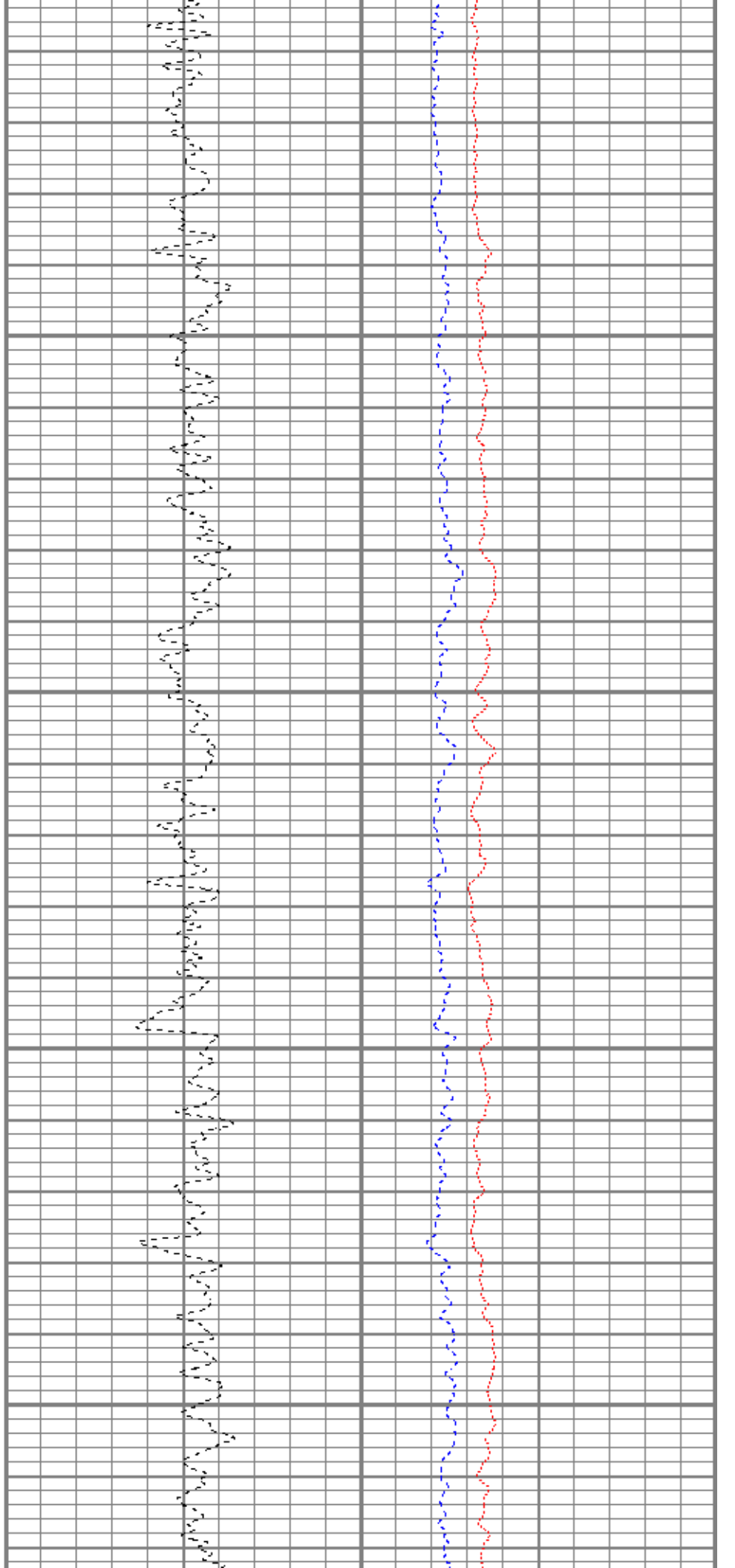
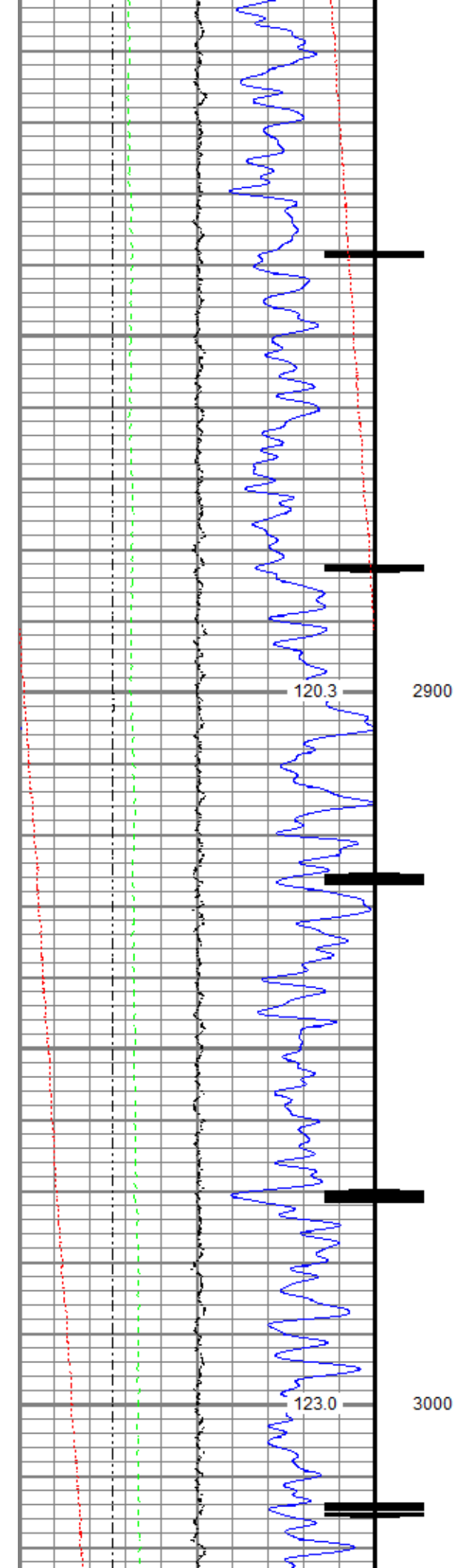


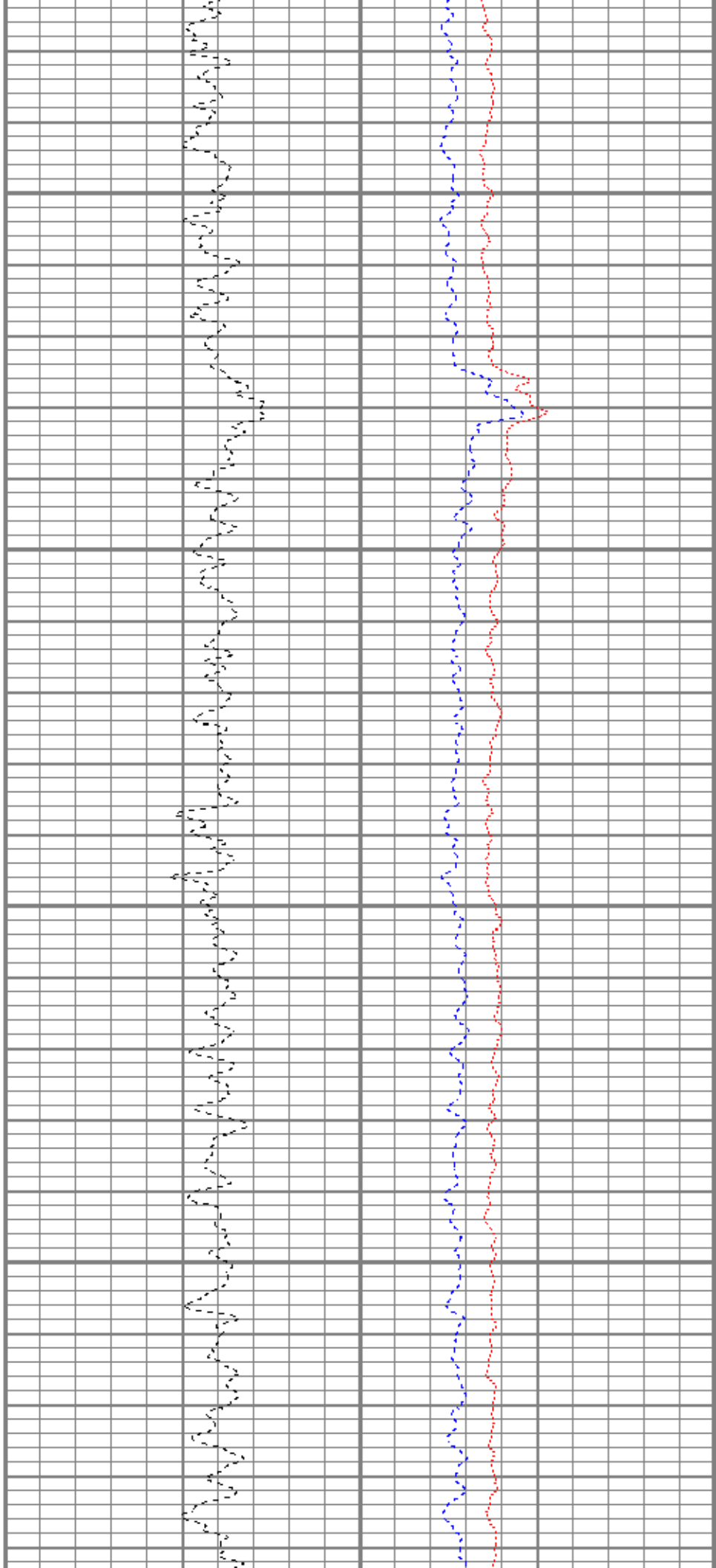
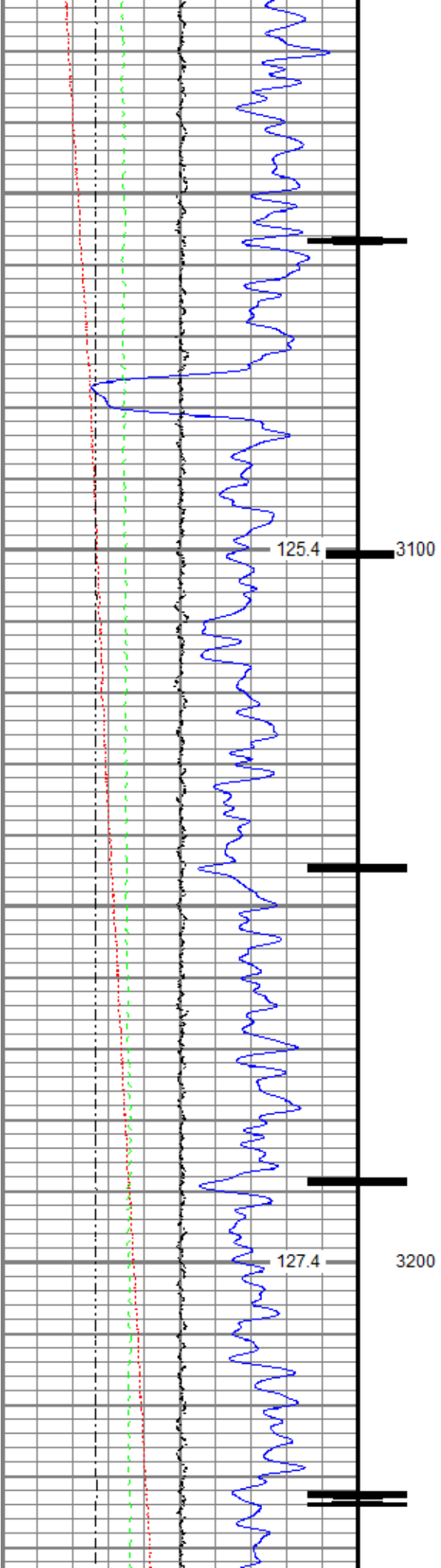


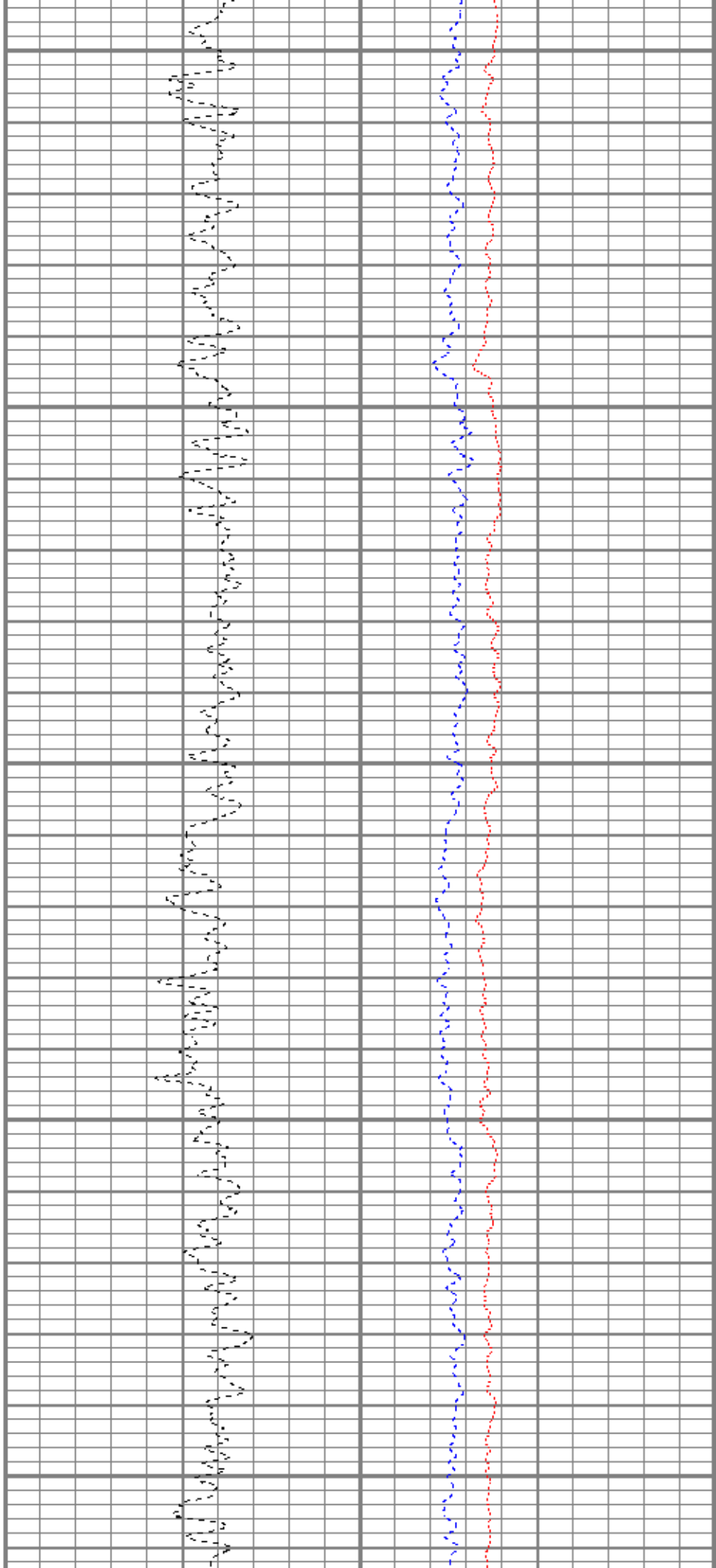
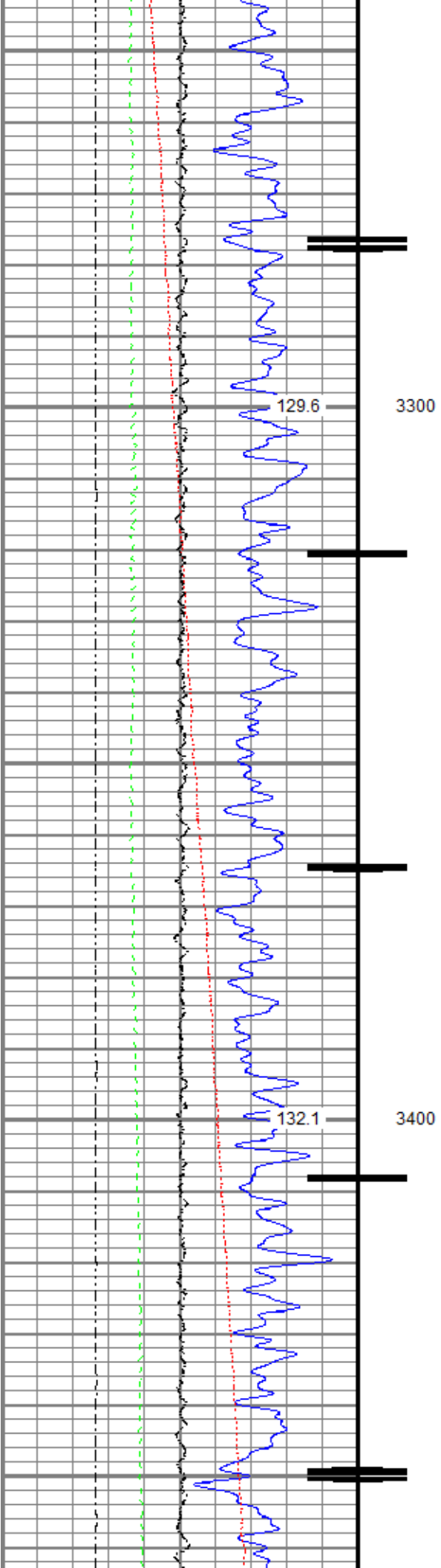


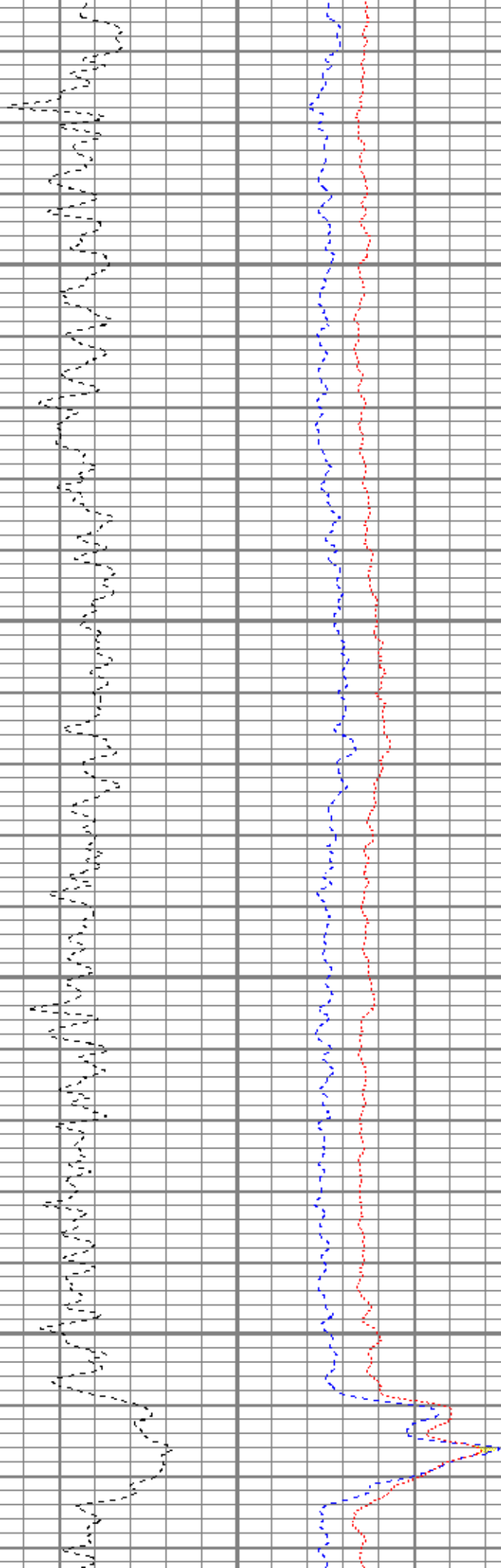
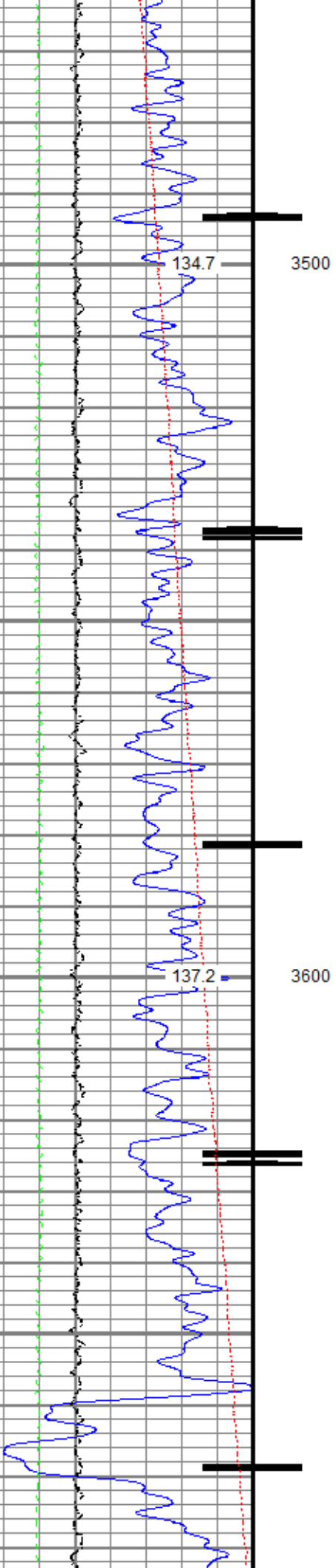


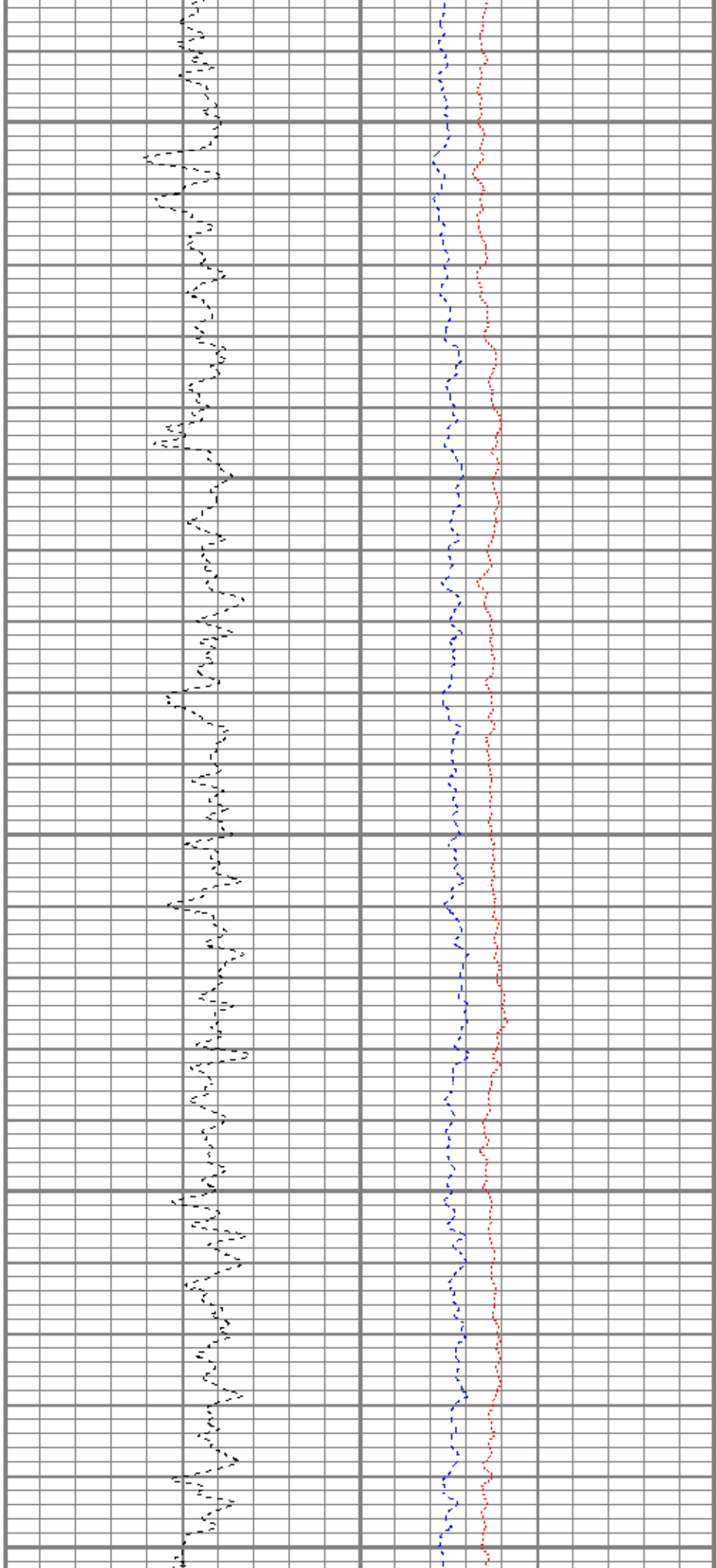
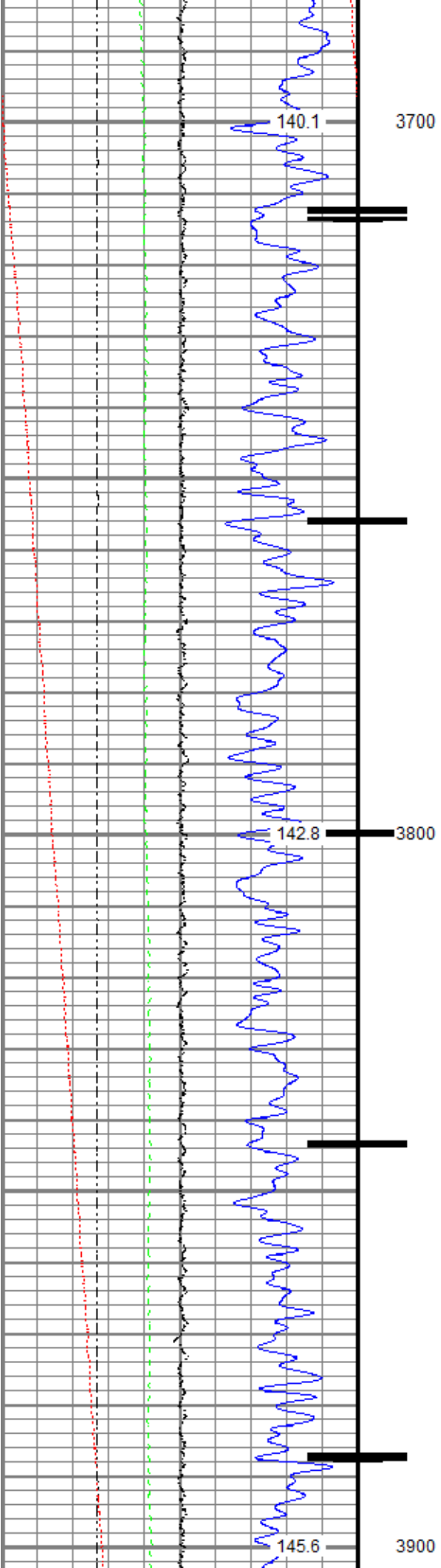


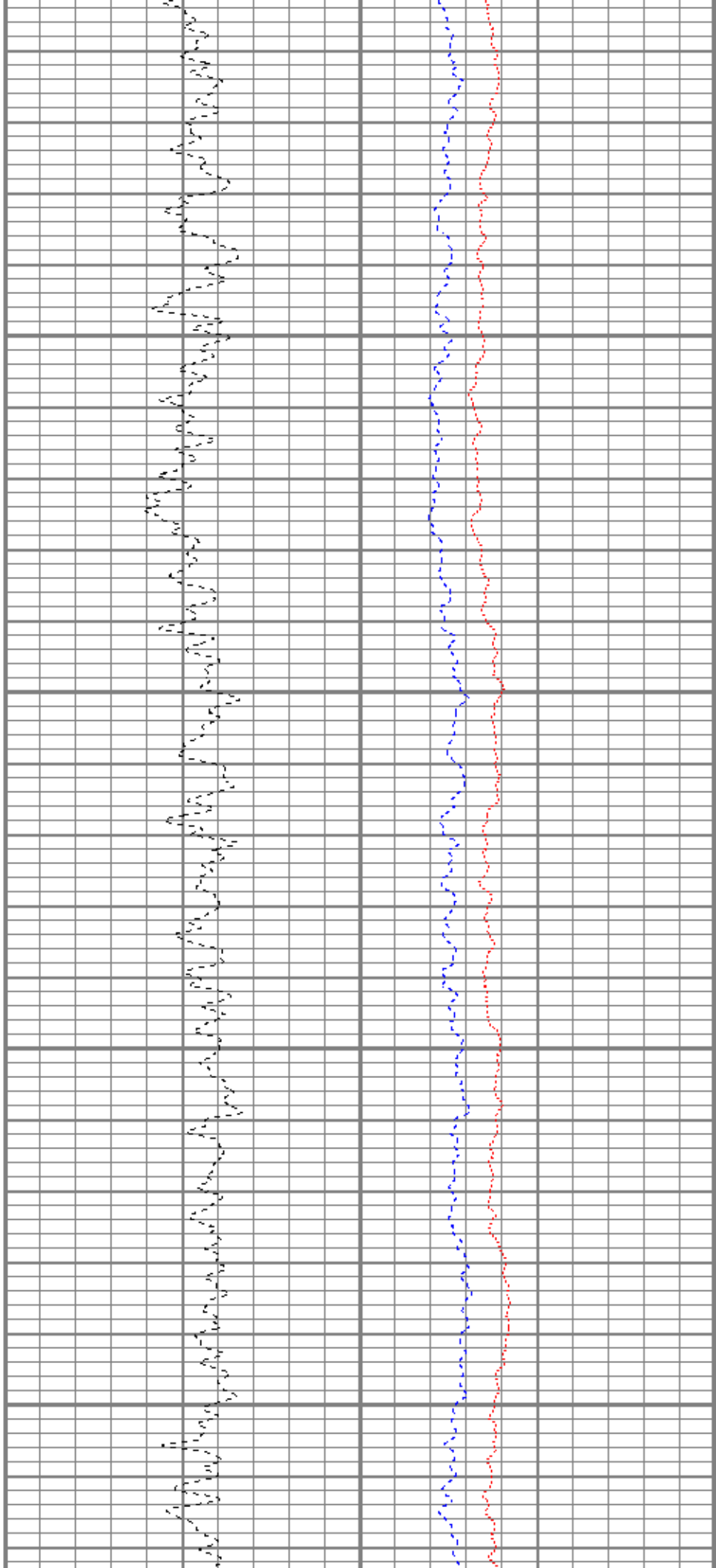
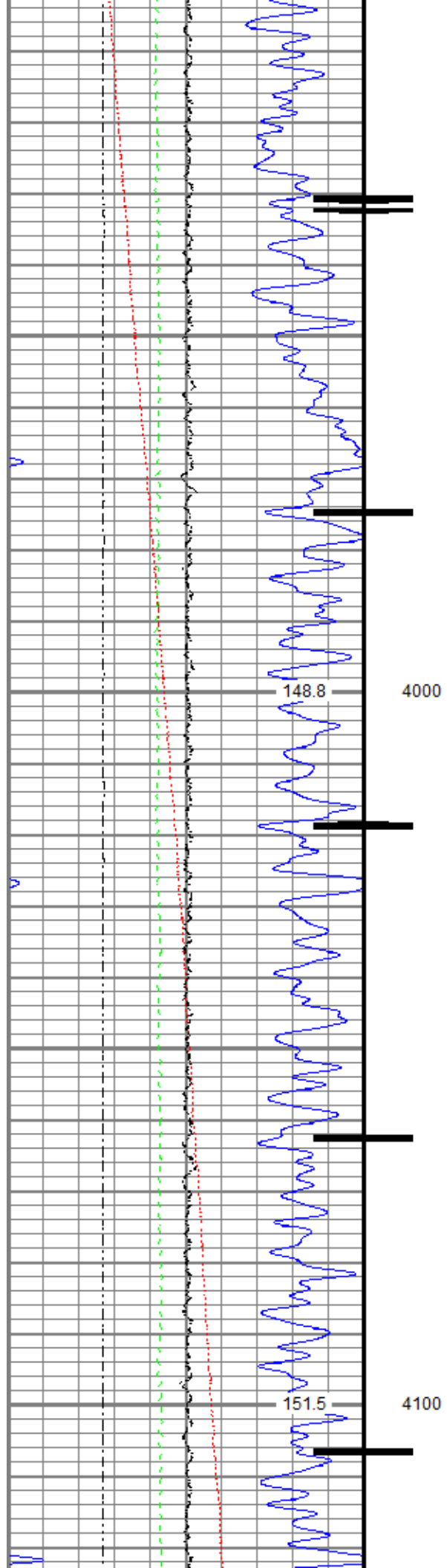


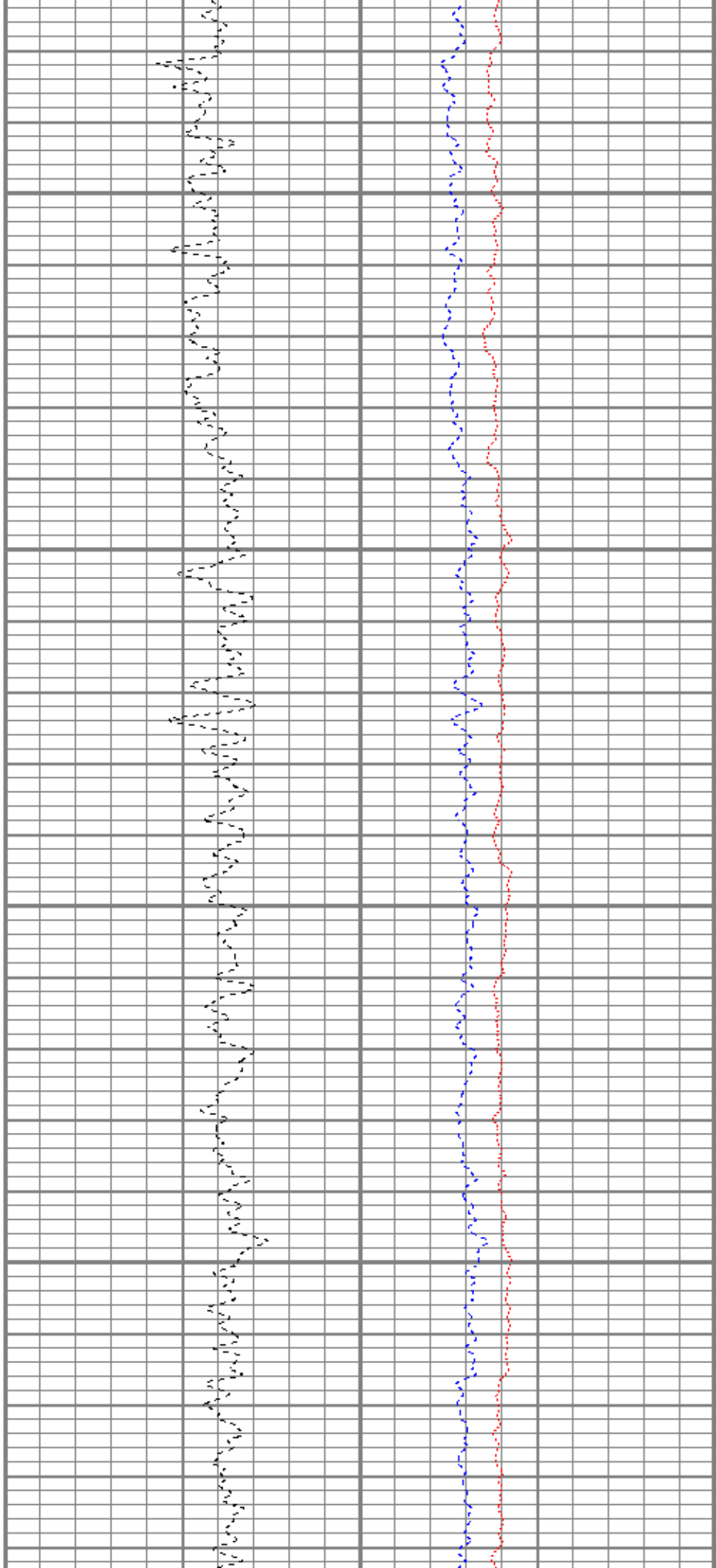
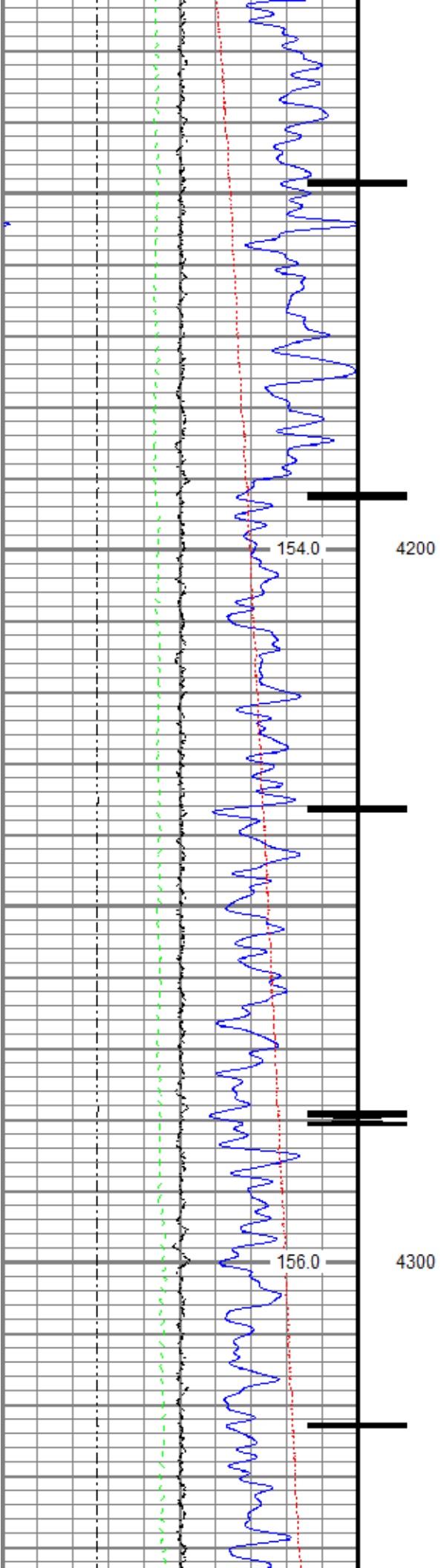


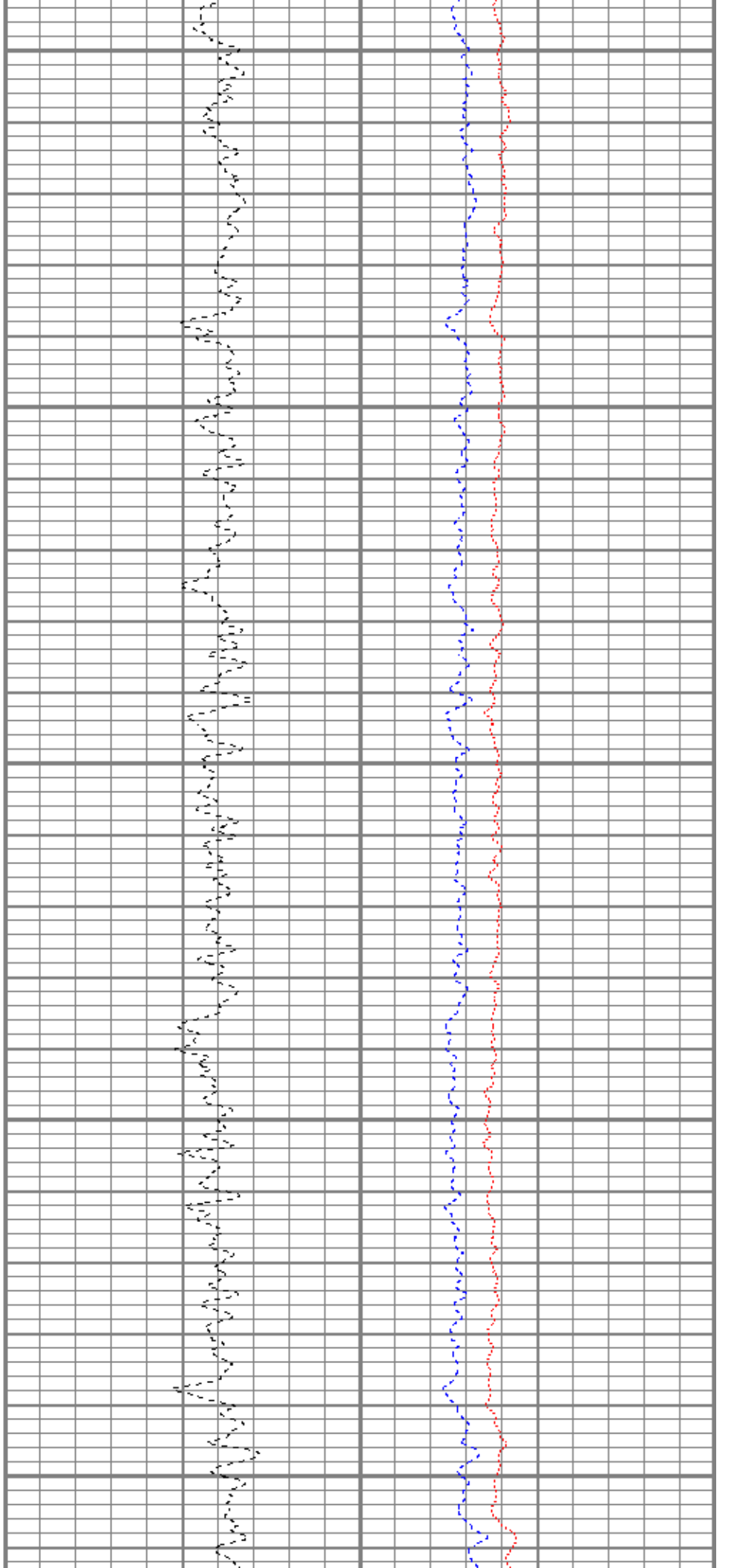
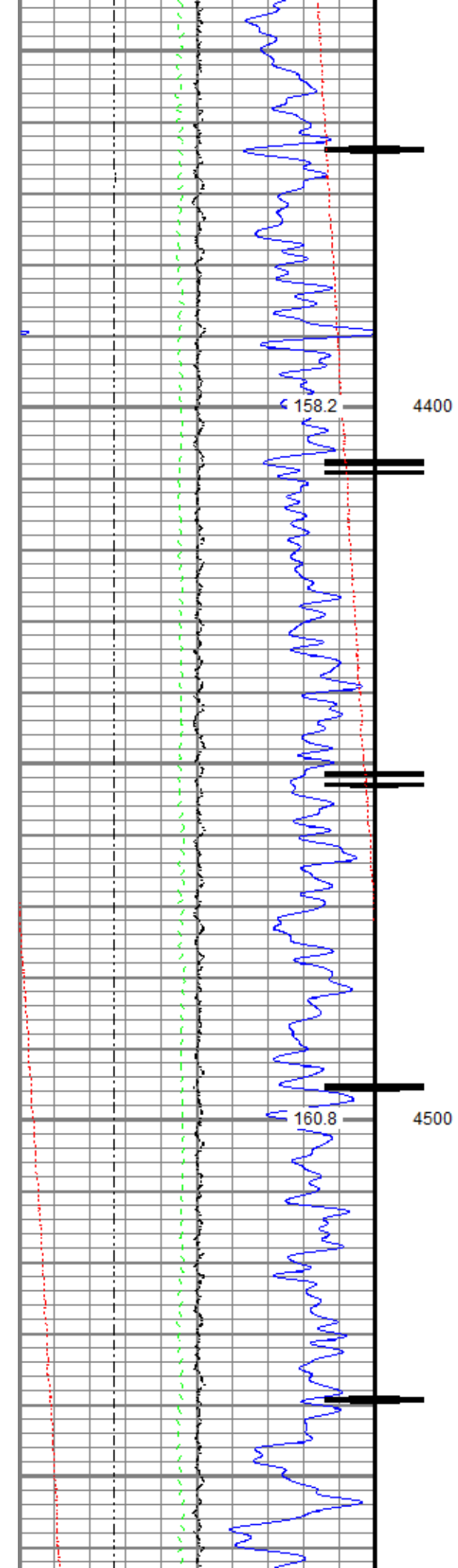


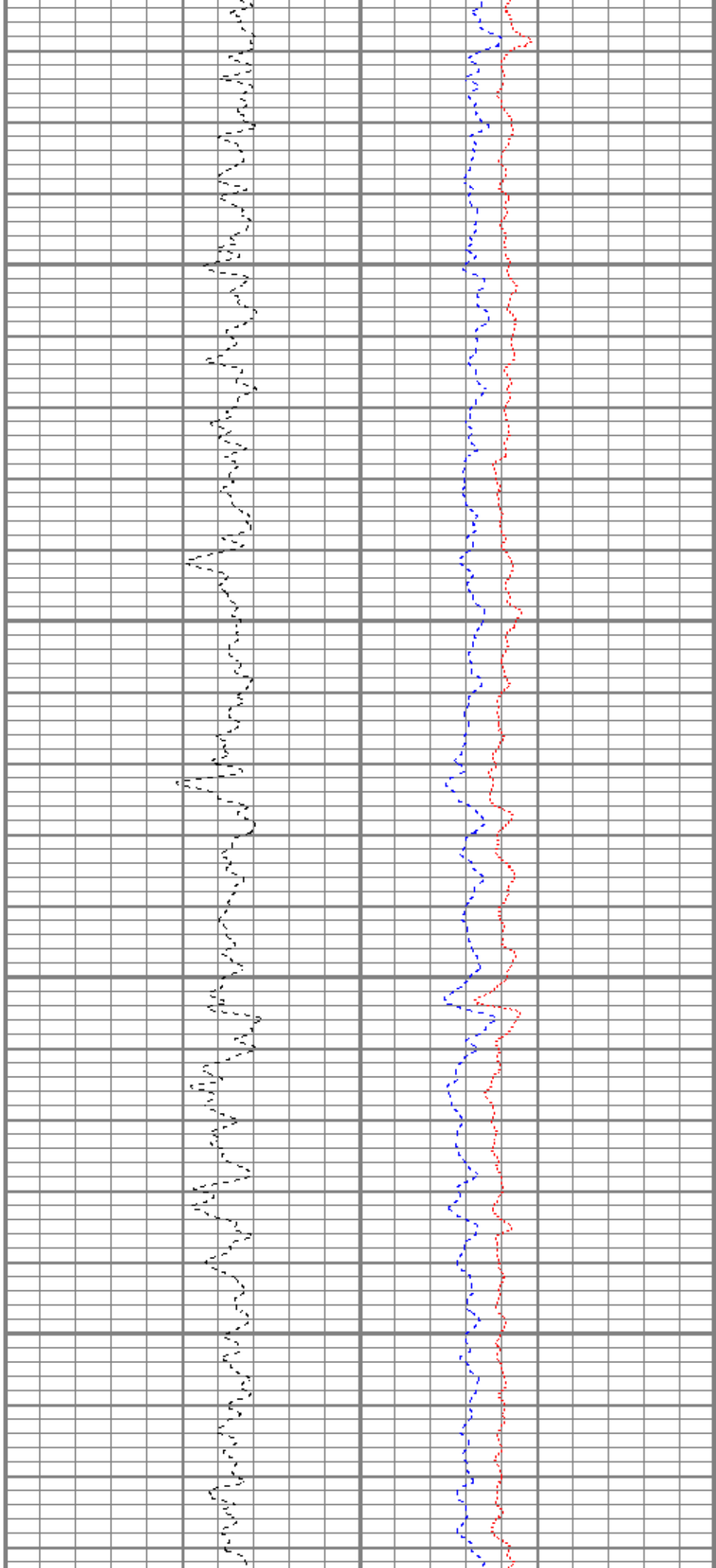
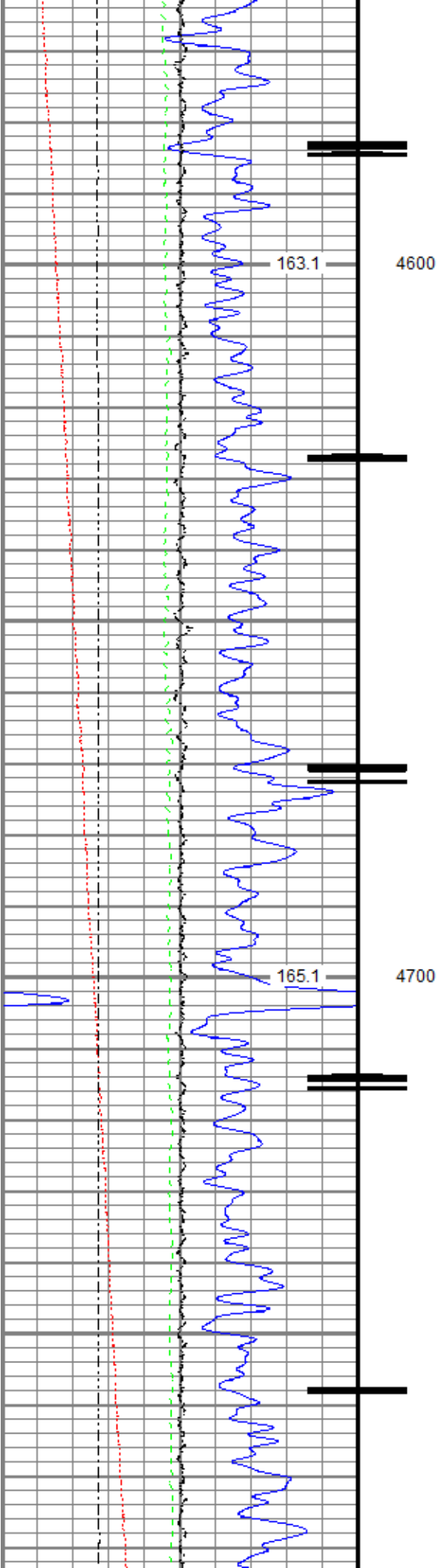


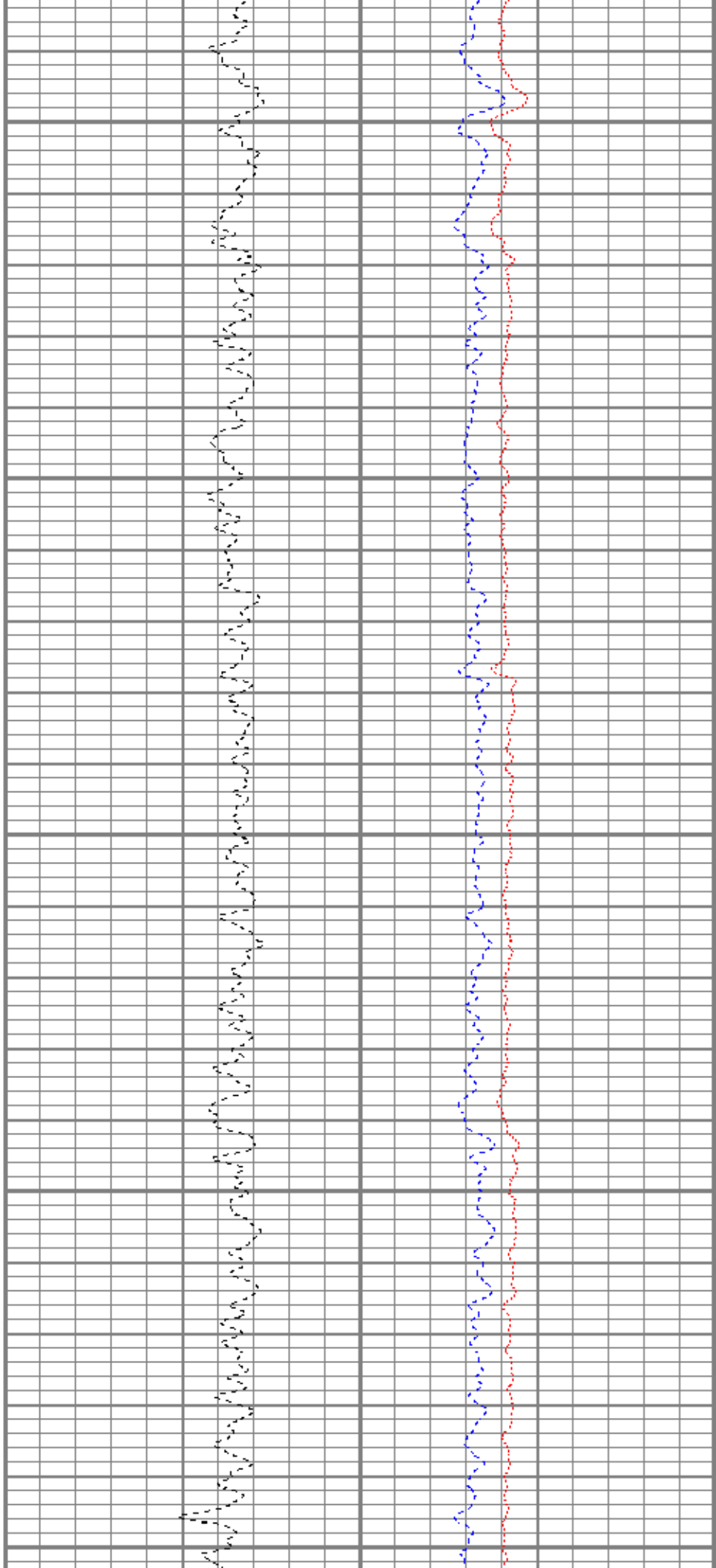
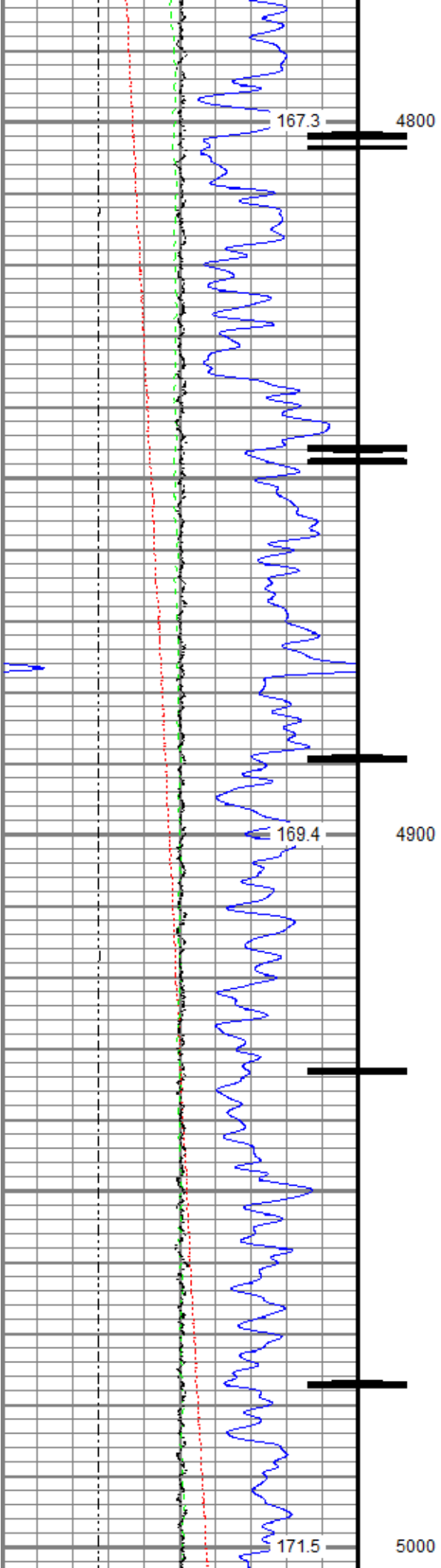


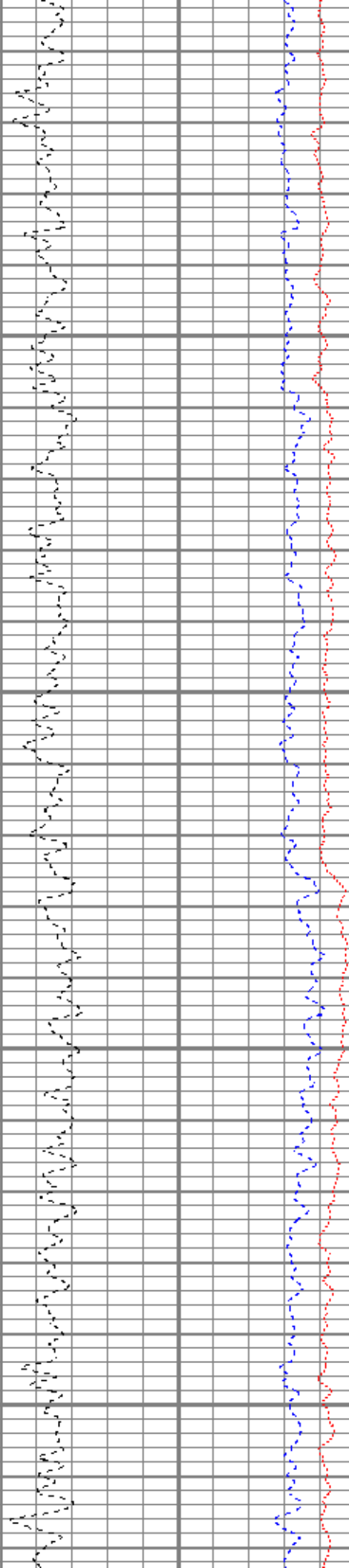
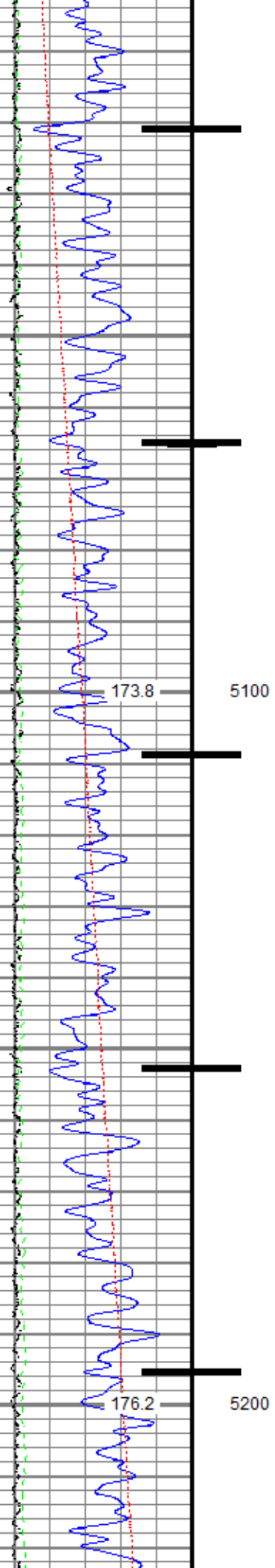


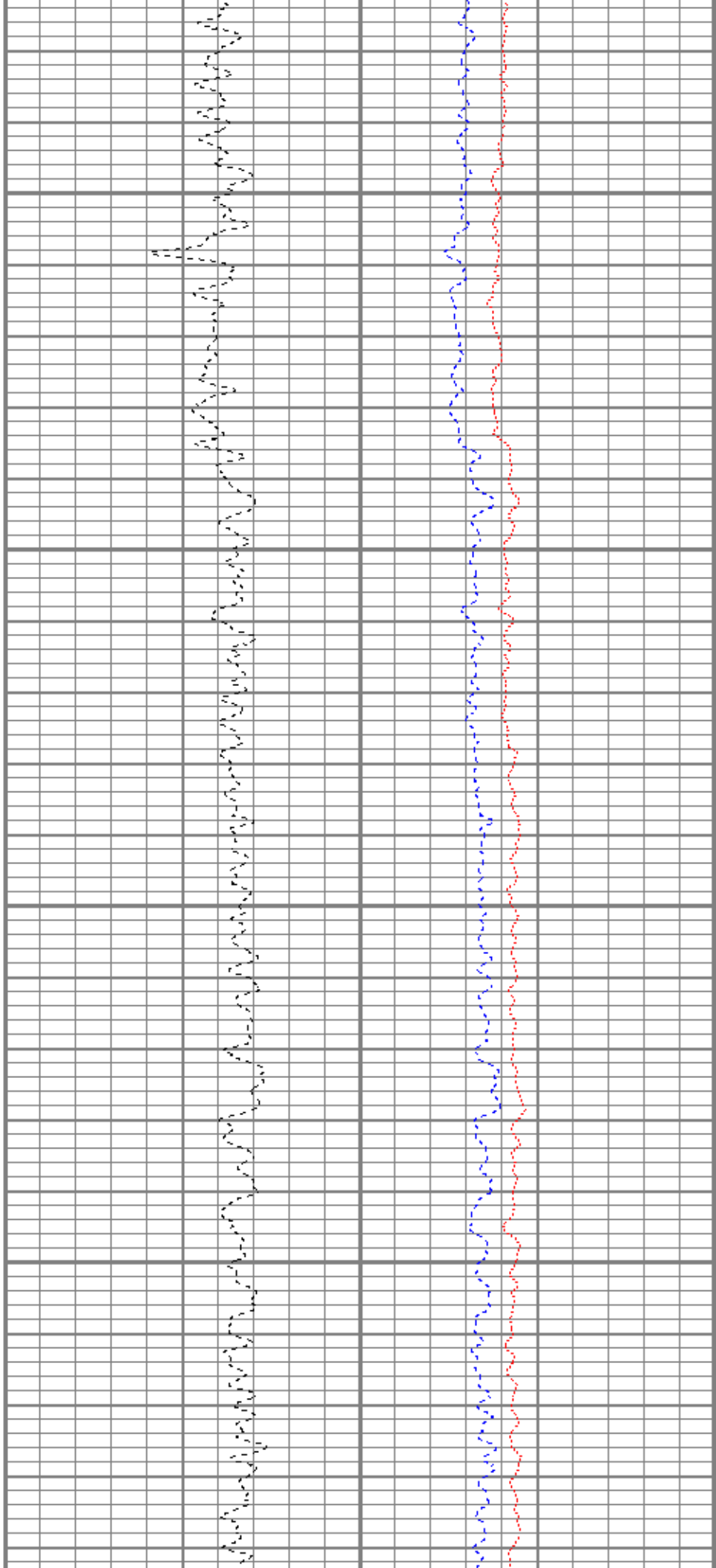
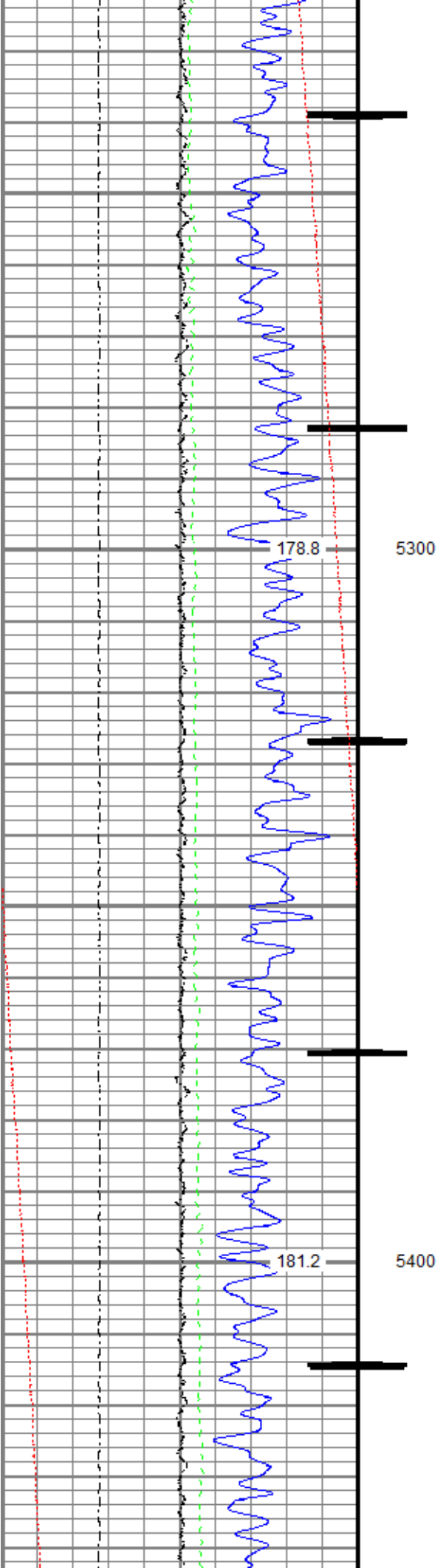


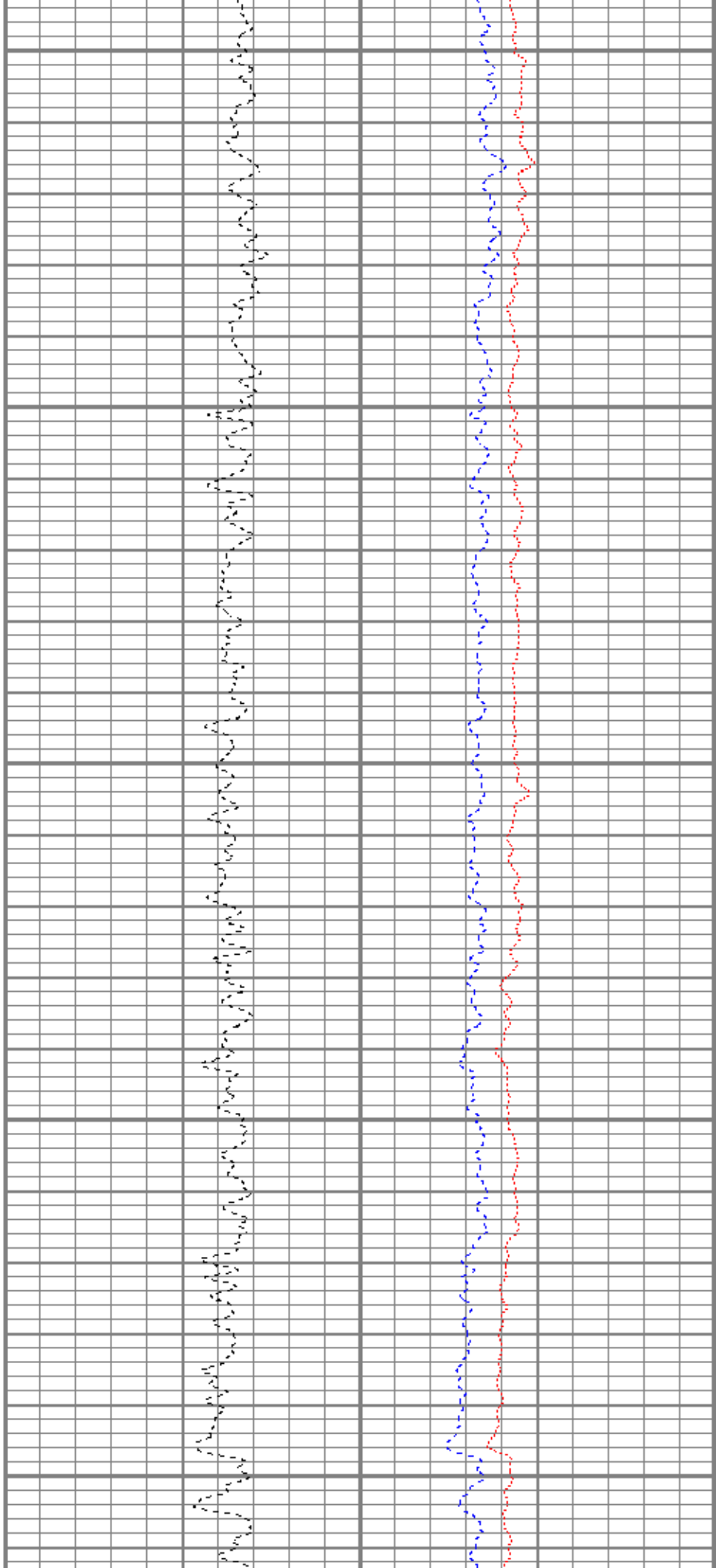
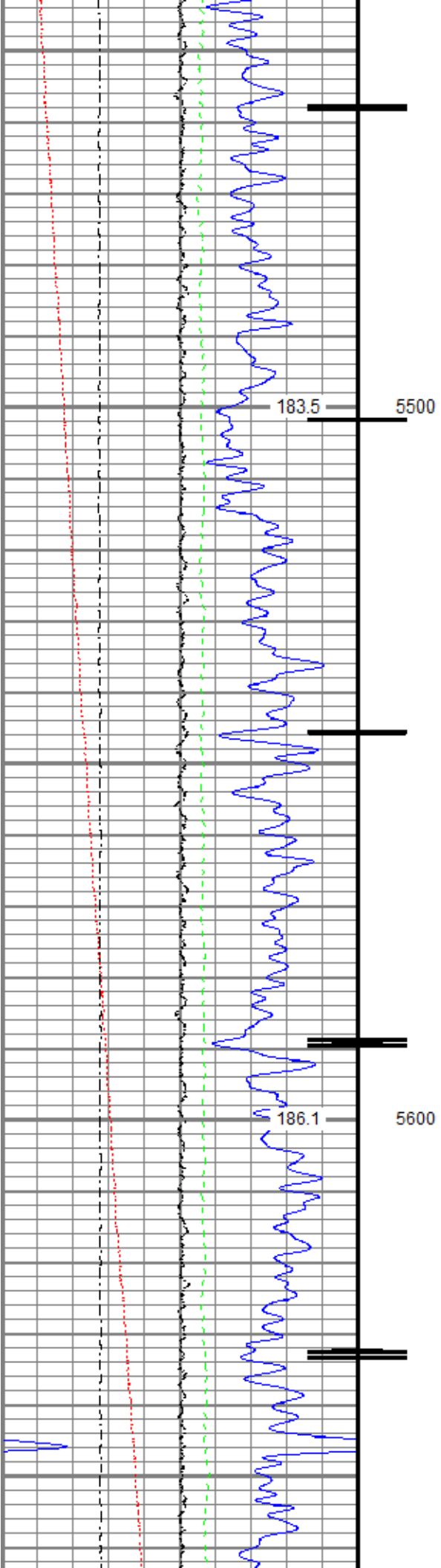


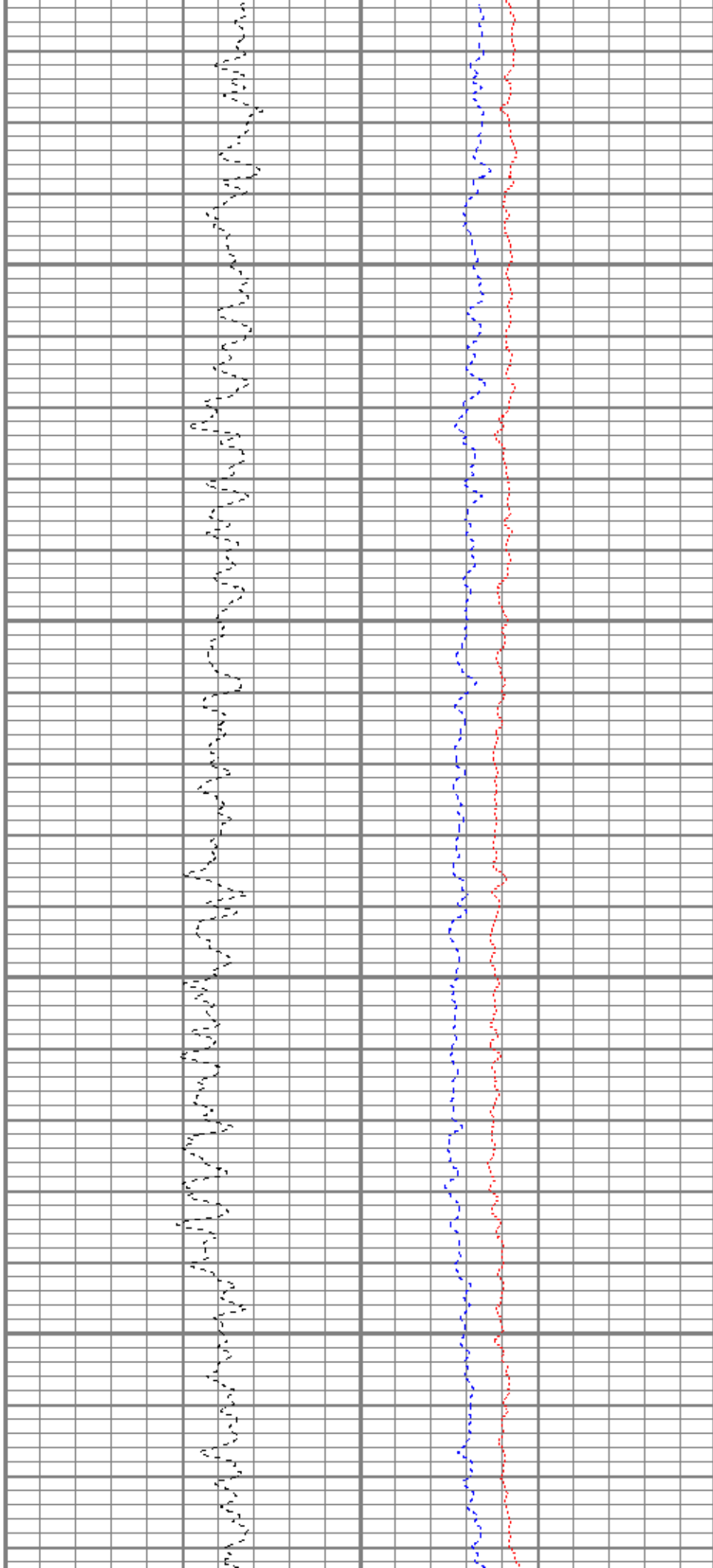
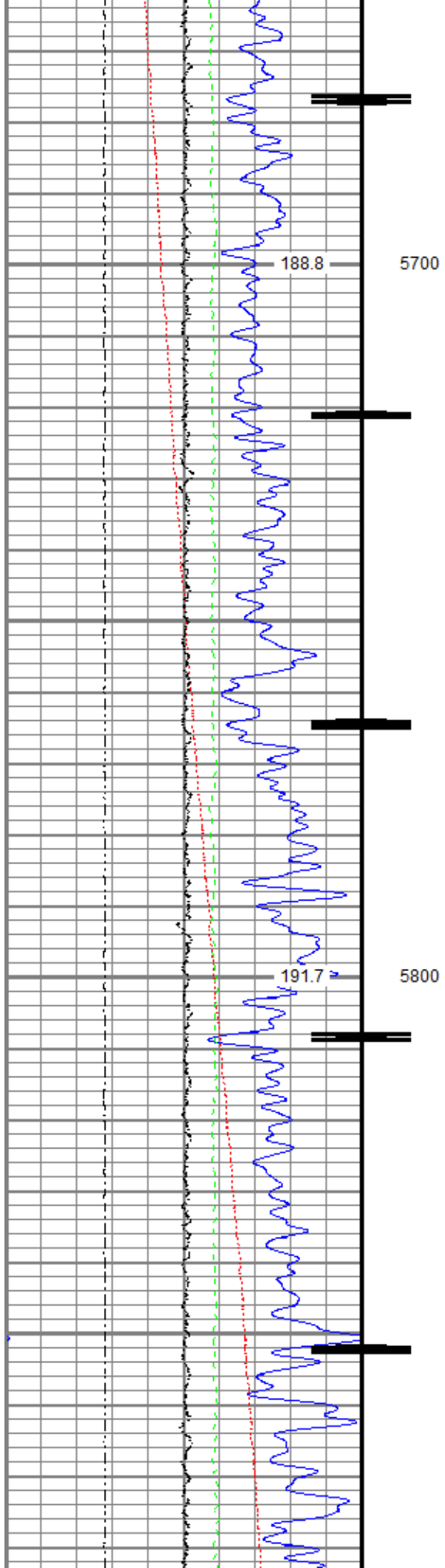


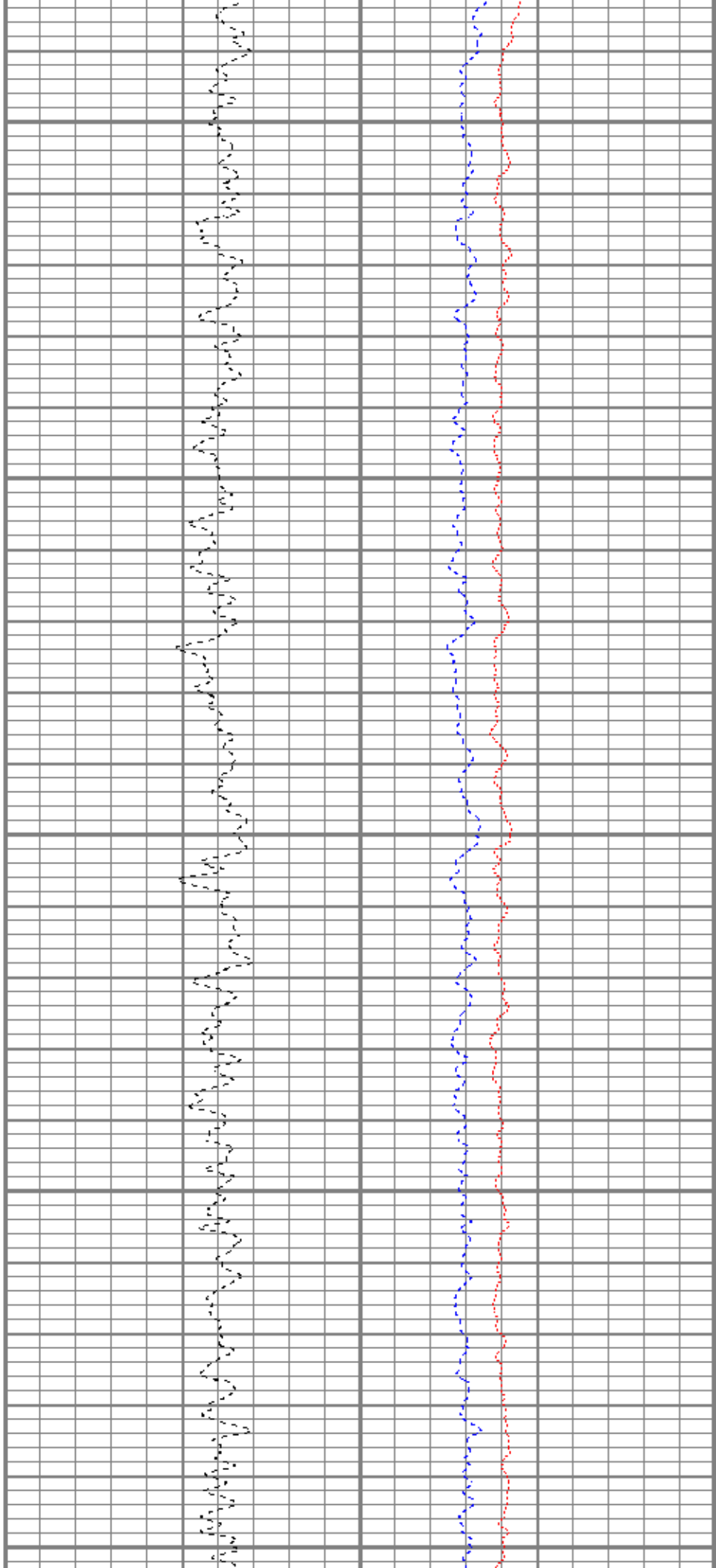
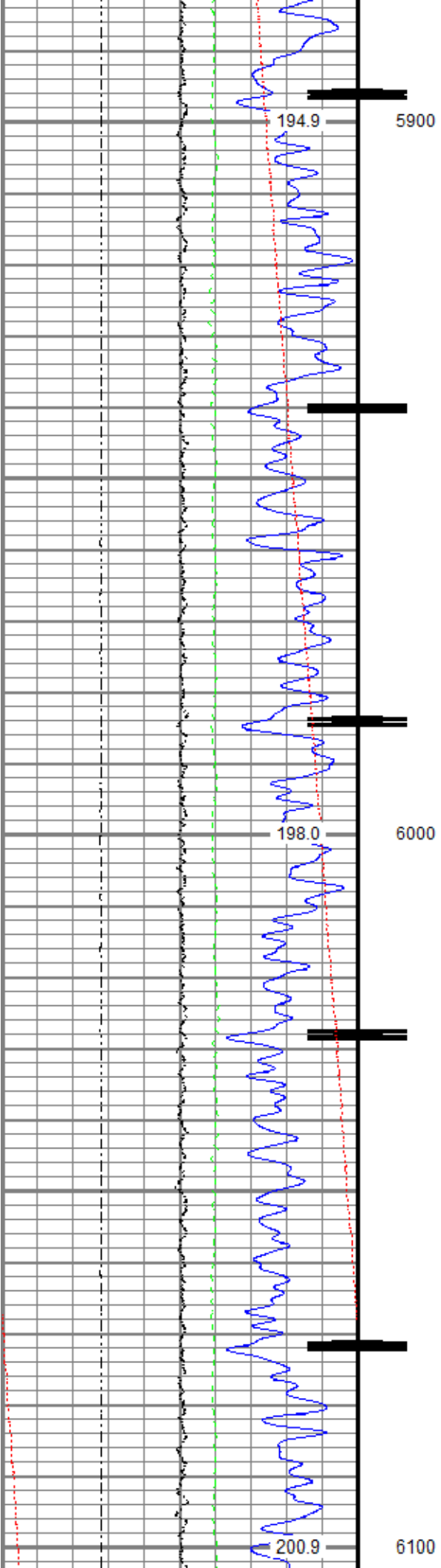


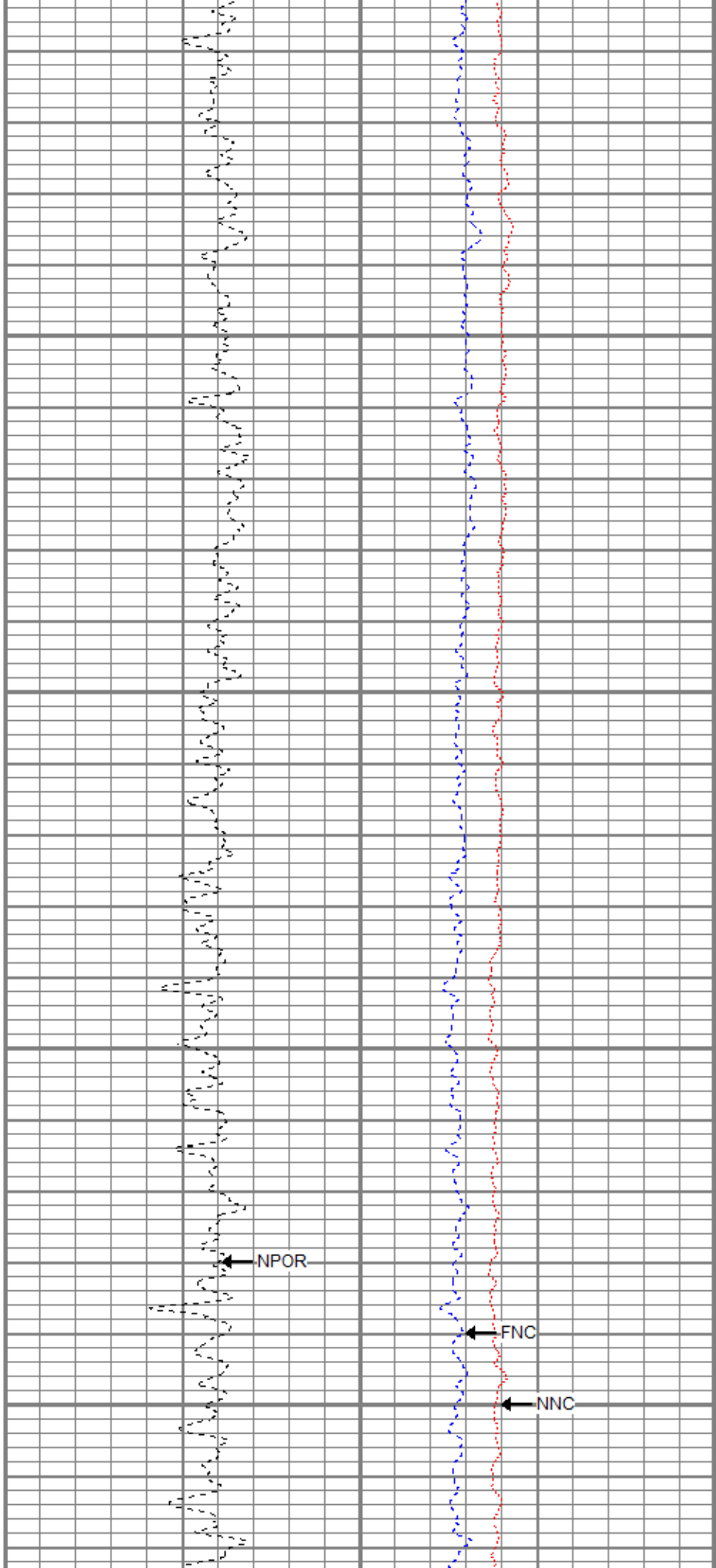
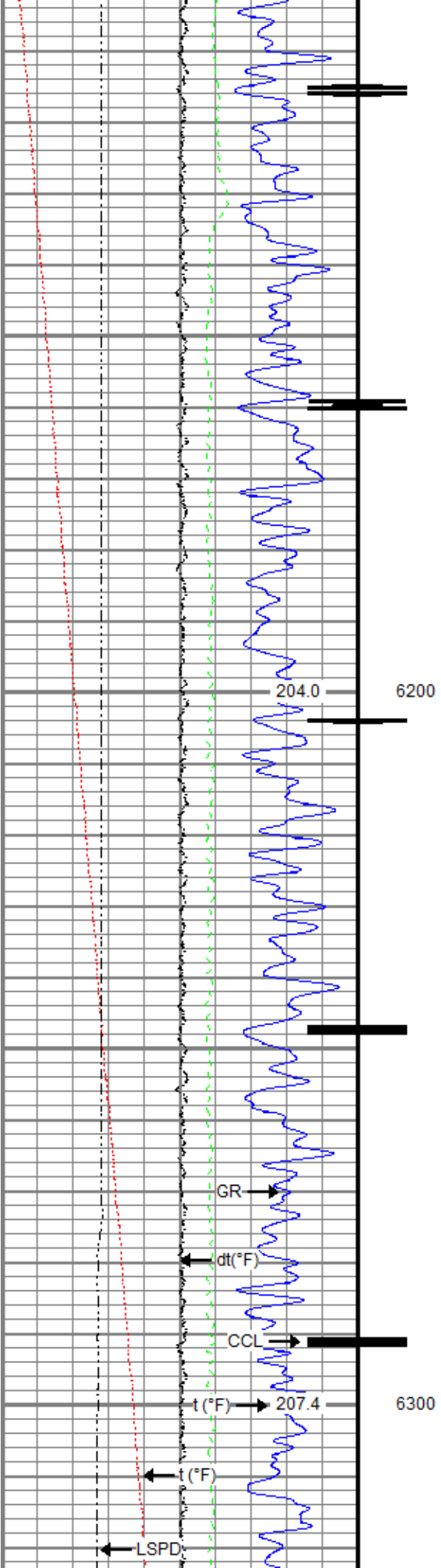


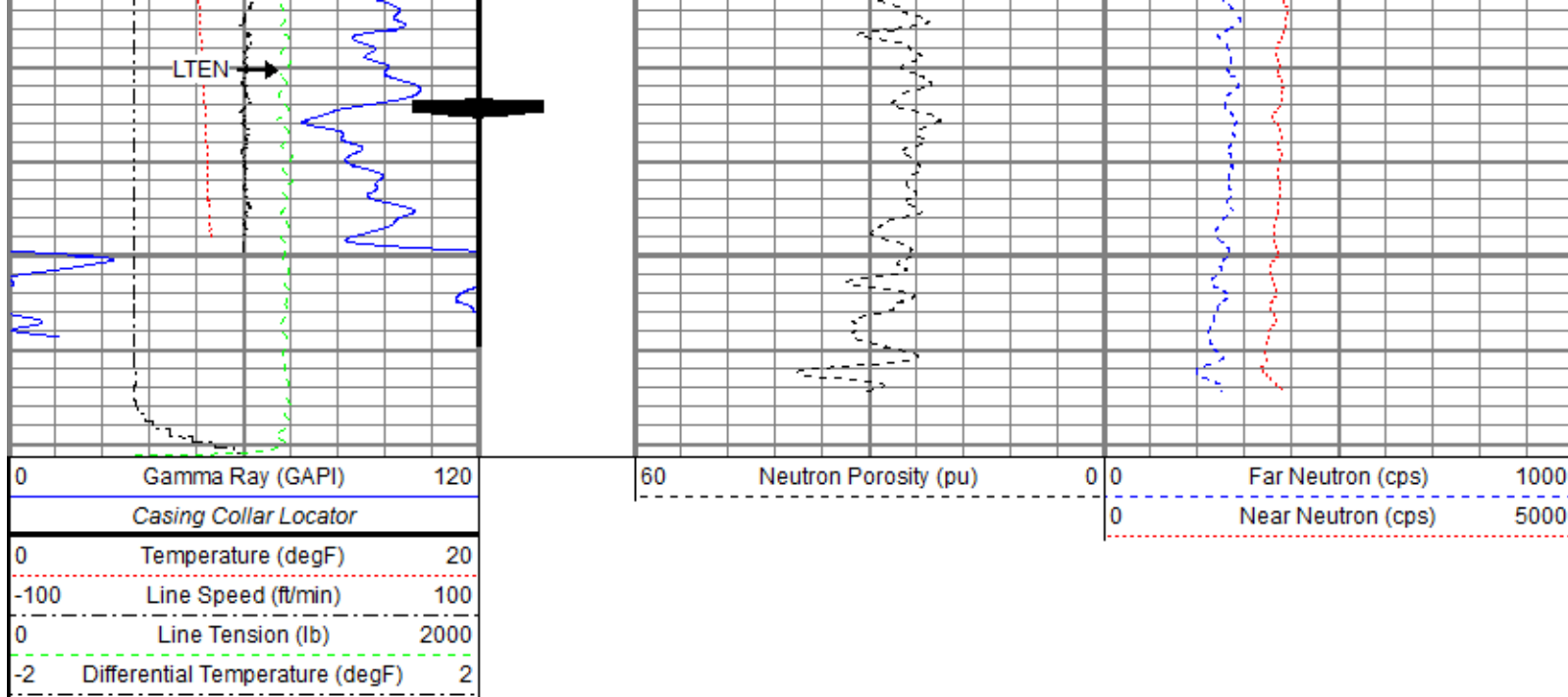








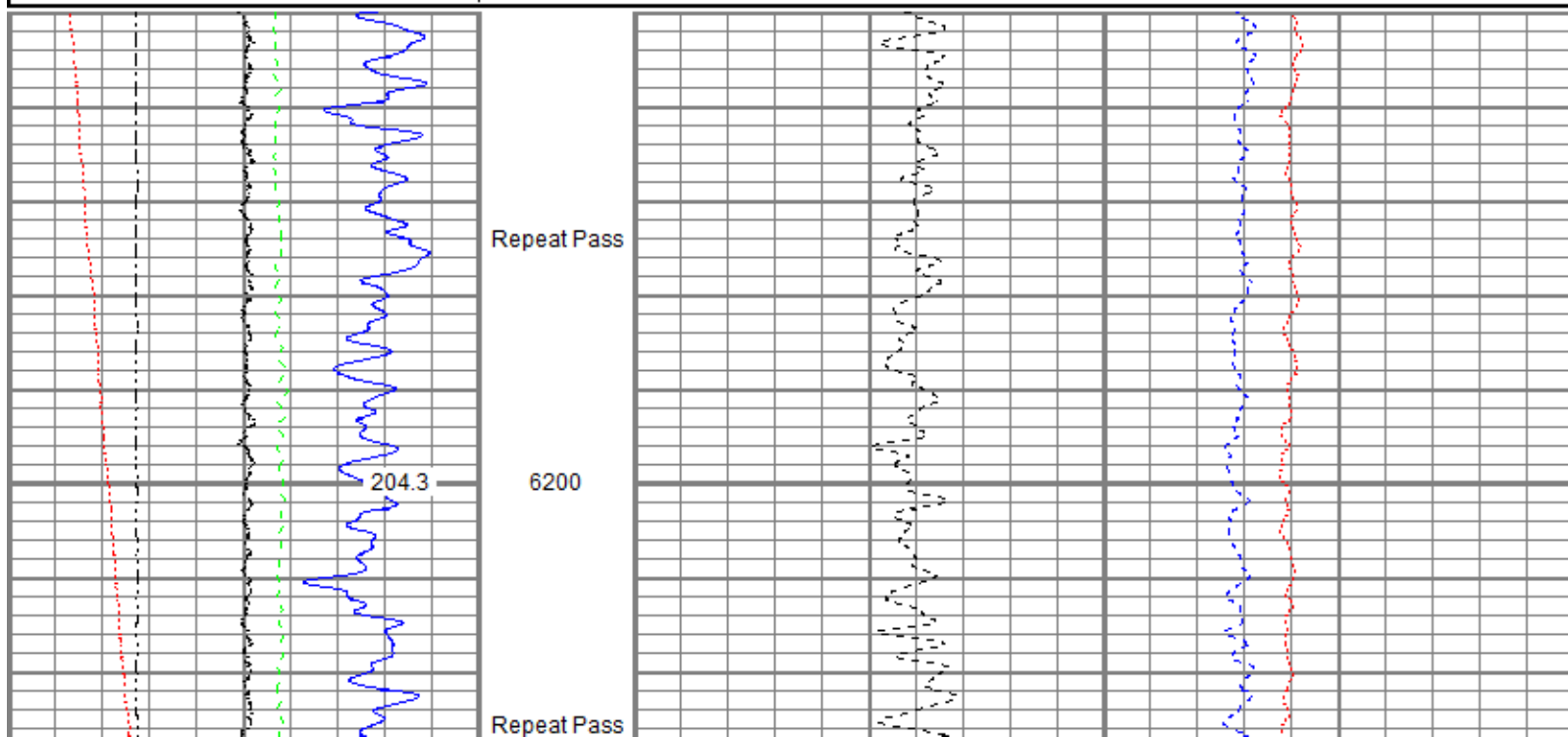
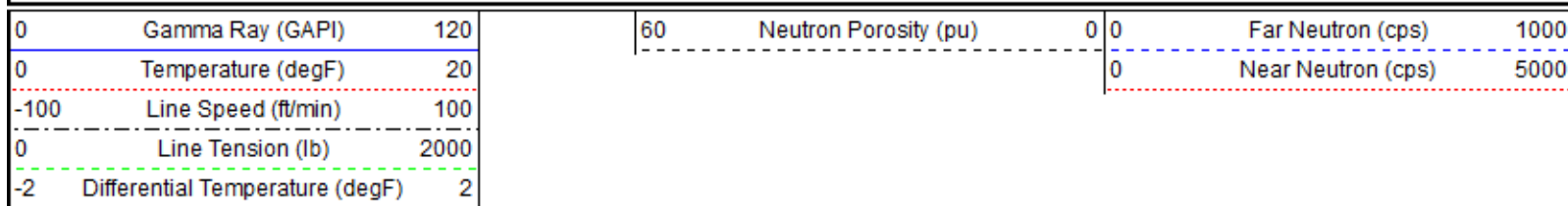


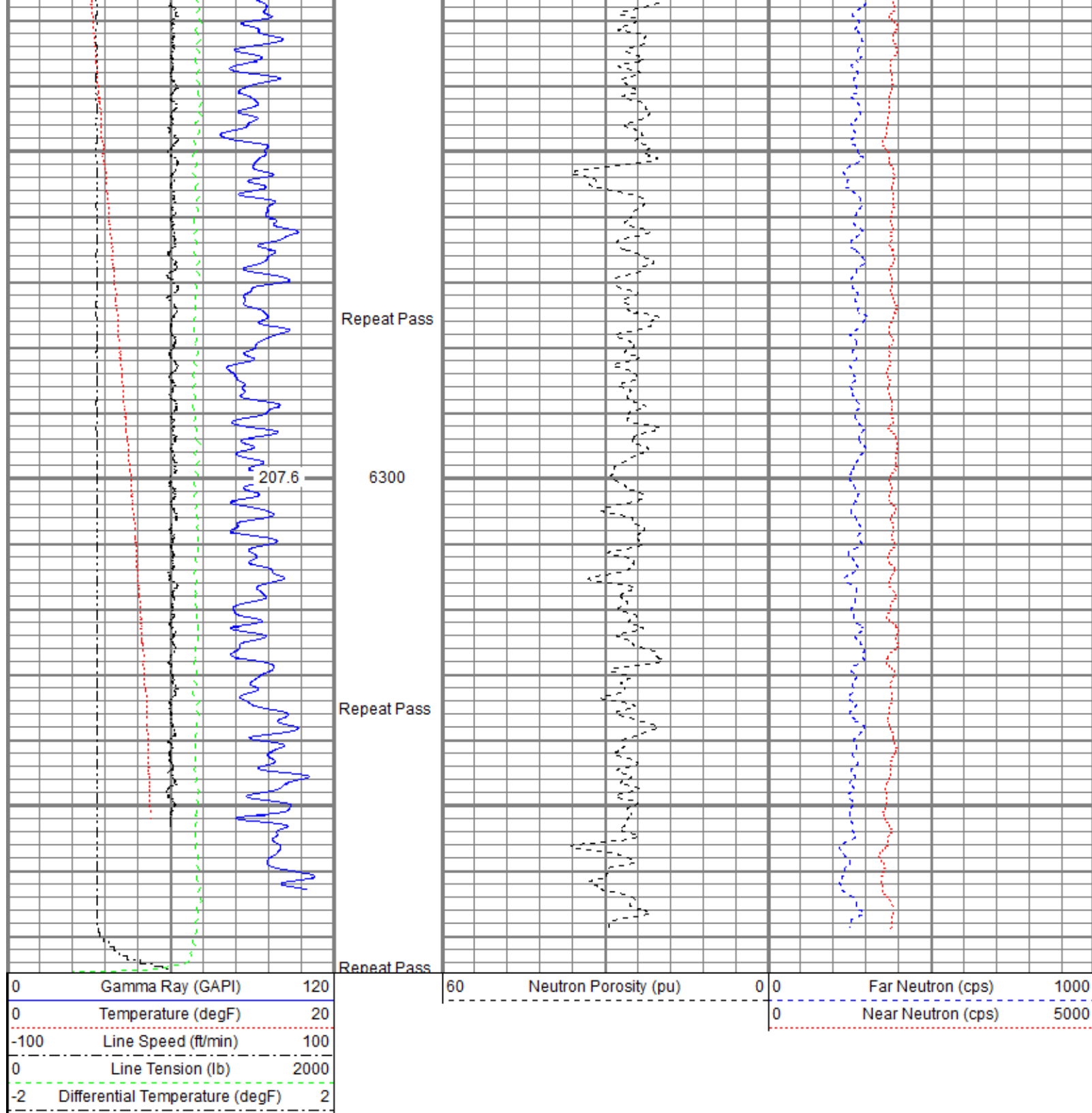


Repeat Pass

Recorded With PSI 2800 Surface Induced Pressure

Database File: 0512345248_anadarko_robin 9-14hz_rbl_cnl_01-04-18\0512345248_anadarko_robin 9-14hz_cnl_01-04-18.db
 Dataset Pathname: pass6
 Presentation Format: ros_cnl_probe
 Dataset Creation: Fri Jan 05 08:58:17 2018
 Charted by: Depth in Feet scaled 1:240





TEMP	22.08							
WVFS8	19.84			Probe Radii-2750 RBT (FW1305-096)	9.39	2.75	105.00	
WVFS7	19.84			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub				
WVFS6	19.84							
WVFS5	19.84							
WVFS4	19.84							
WVFS3	19.84							
WVFS2	19.84							
WVFS1	19.84							
WVFCAL	19.84							
WVF3FT	19.84			Probe CENT-2750	2.88	2.75	20.00	
WVF5FT	18.84			Probe 2-3/4" Electric Inline Bowspring Centralizer				
HEADVOLT	15.59							
CCL\$2	11.83							
CCL\$1	11.83							
GR	10.50			Probe GR-CCL-2750 6PB (FW1304-132)	4.80	2.75	55.00	
				Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT				
CNLS	4.53			Probe CN-2750 BL (FW1308-020_A1483)	5.03	2.75	60.00	
CNSSC	4.12			Probe 2-3/4" Compensated Neutron with Bottom Load				
				Probe CENT-2750	2.88	2.75	20.00	
				Probe 2-3/4" Electric Inline Bowspring Centralizer				
<div>Dataset: 0512345248_Anadarko_Robin 9-14HZ_CNL_01-04-18.db: field/well/run1/pass9</div> <div>Total length: 28.90 ft</div> <div>Total weight: 285.40 lb</div> <div>O.D.: 2.75 in</div>								

Calibration Report	
Database File	C:\ProgramData\Warrior\Data\0512345248_Anadarko_Robin 9-14HZ_RBL_CNL_01-04-18\0512345248_Anadarko_Robin 9-14
Dataset Pathname	pass9
Dataset Creation	Fri Jan 05 09:17:22 2018
Compensated Neutron Calibration Report	
Type / Serial:	2750 BL / FW1308-020_A1483
Source / Verifier:	/
Temperature:	
SHOP CALIBRATION	Wed Oct 11 09:42:11 2017

Tank Ratio	Cal Tube	Units				
Tank Porosity		SS/LS				
LS Detector		pu				
SS Detector		cps				
Tool Ratio		cps				
Tool Porosity		SS/LS				
		pu				
Tool Constant =						
Field Verifier	SS Detector	LS Detector	Ratio	Porosity		
PRE-SURVEY VERIFICATION						
	SS Detector	LS Detector	Ratio	Porosity		
POST-SURVEY VERIFICATION						
	SS Detector	LS Detector	Ratio	Porosity		
Gamma Ray Calibration Report						
Serial Number:	FW1304-132					
Tool Model:	2750 6PB					
Performed:	Tue Nov 28 11:17:11 2017					
Calibrator Value:	637.0	GAPI				
Background Reading:	109.1	cps				
Calibrator Reading:	1009.7	cps				
Sensitivity:	0.7072	GAPI/cps				
Segmented Cement Bond Log Calibration Report						
Serial Number:	FW1305-096					
Tool Model:	2750 RBT					
Calibration Casing Diameter:	5.500	in				
Calibration Depth:	28.352	ft				
Master Calibration, performed Thu Jan 04 06:51:41 2018:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.518	0.800	71.921	138.256	0.273
CAL	0.004	0.549				
5'	0.004	0.502	0.800	71.921	142.786	0.244
SUM						
S1	0.004	0.511	0.000	100.000	197.084	-0.748
S2	0.004	0.511	0.000	100.000	196.985	-0.743
S3	0.004	0.512	0.000	100.000	196.739	-0.732
S4	0.004	0.512	0.000	100.000	196.753	-0.773
S5	0.004	0.517	0.000	100.000	194.737	-0.756
S6	0.004	0.521	0.000	100.000	193.267	-0.731
S7	0.004	0.524	0.000	100.000	192.111	-0.727
S8	0.004	0.524	0.000	100.000	192.418	-0.738
Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.549	1.000	0.000

Air Zero Calibration, performed Thu Jan 04 06:50:35 2018:

	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

Temperature Calibration Report

Serial Number: FW1305-096
Tool Model: 2750 RBT
Performed: Sun Nov 12 13:42:10 2017

	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF

Gain: 0.84
Offset: 7.72
Delta Spacing: 1



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	Robin 9-14HZ
Field	Wattenberg
County	Weld
State	Colorado