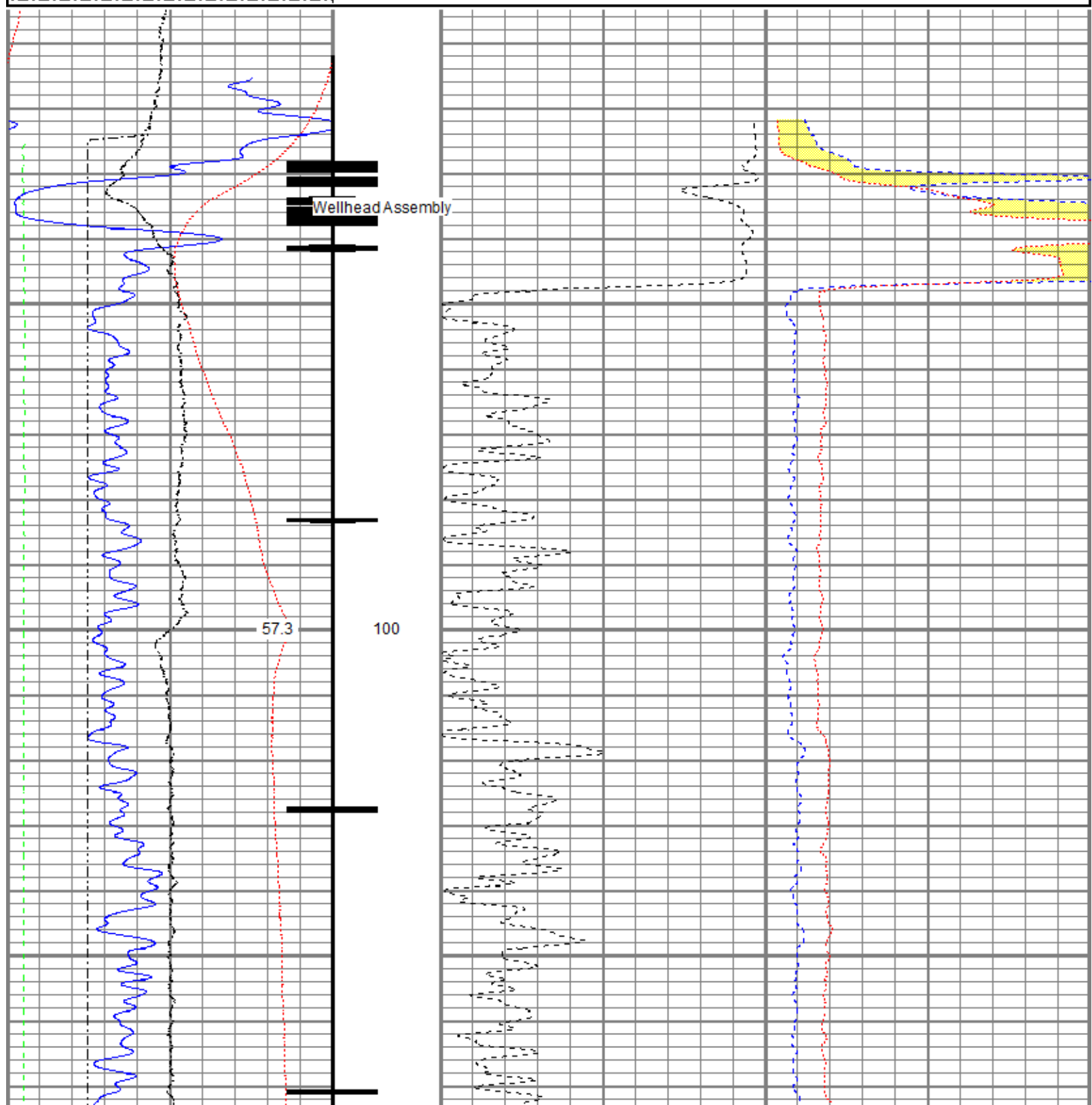


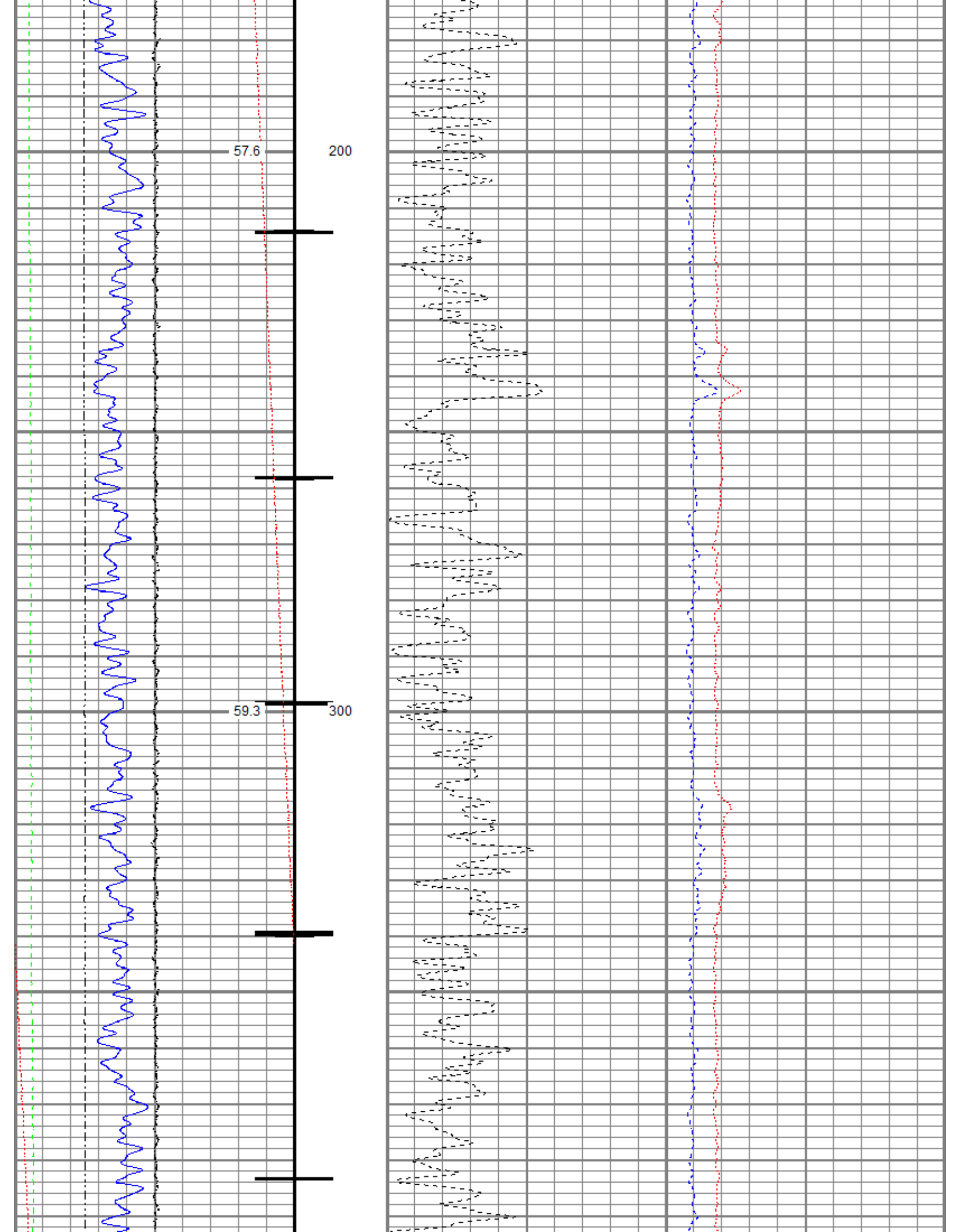


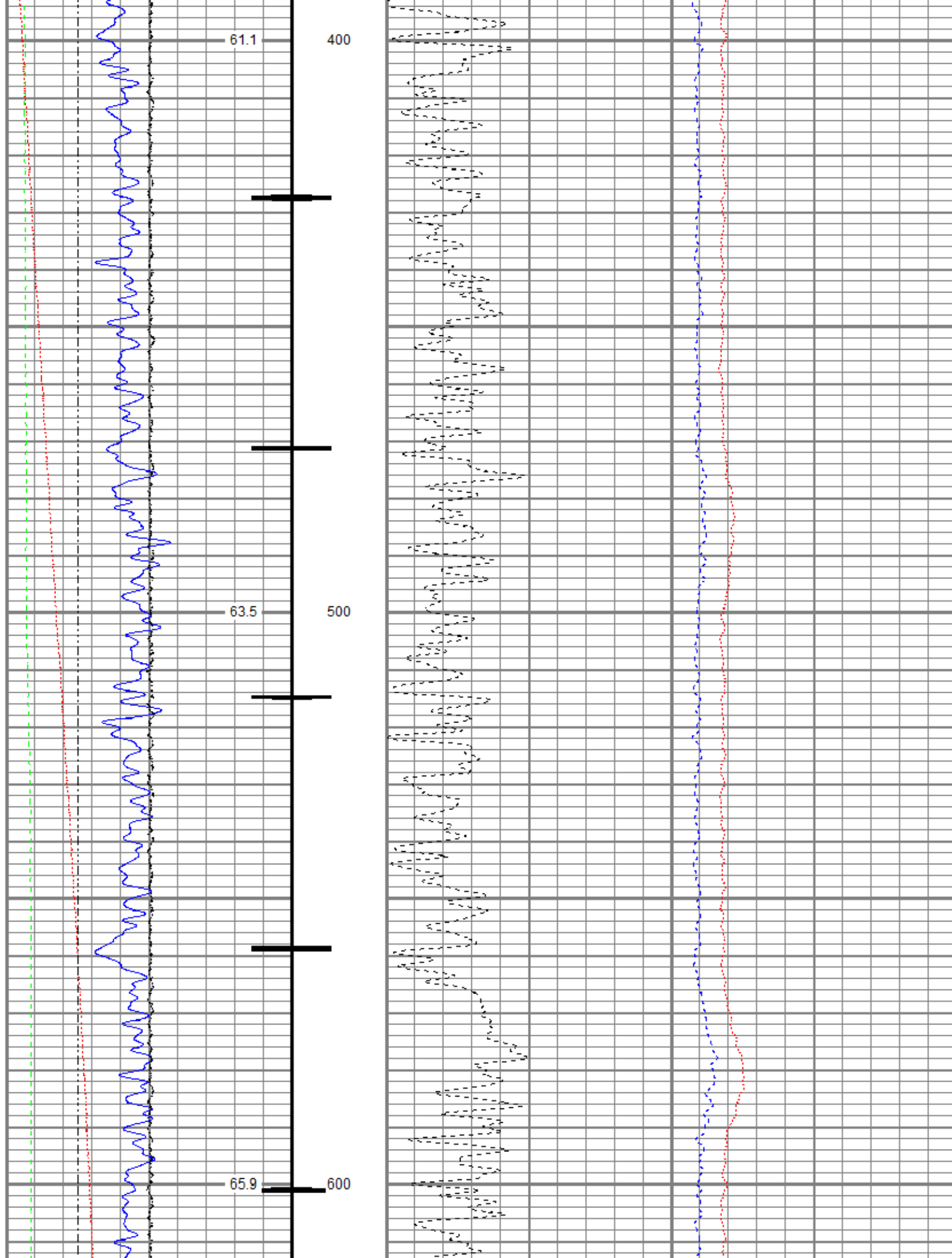
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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
Log ran as per customer request Depth referenced to Casing Tally reported Marker Joint at 6238 FT Adjusted -.5 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 7445 FT with no debris Log ran from as deep as possible in heel to surface Log ran with 2800 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations  Thank you for choosing Reliance Oilfield Services, LLC!!

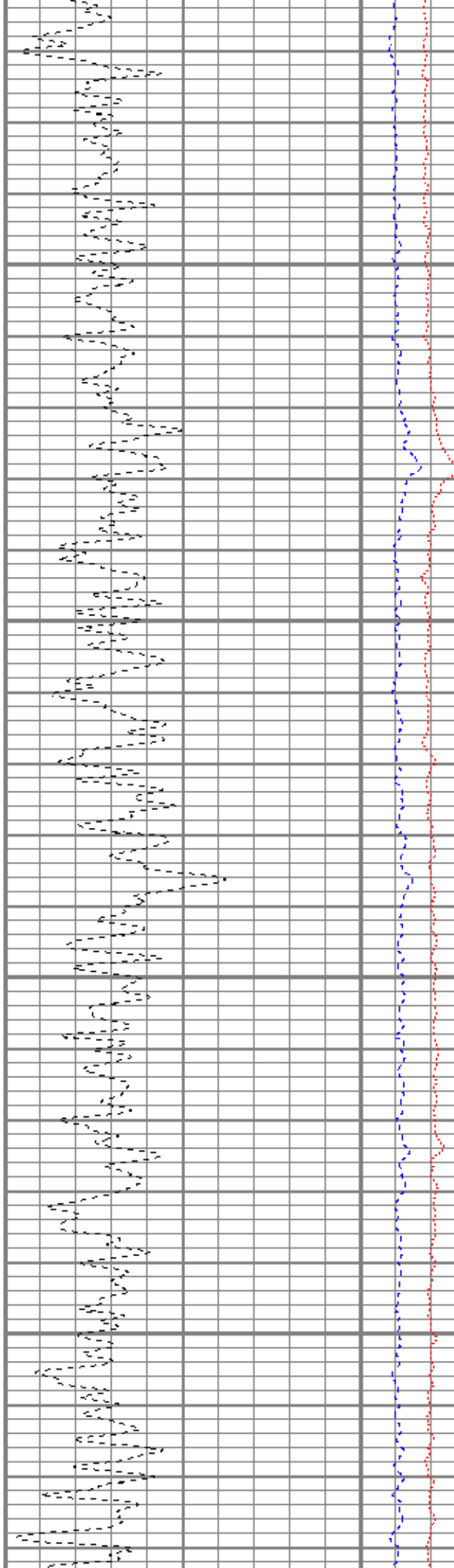
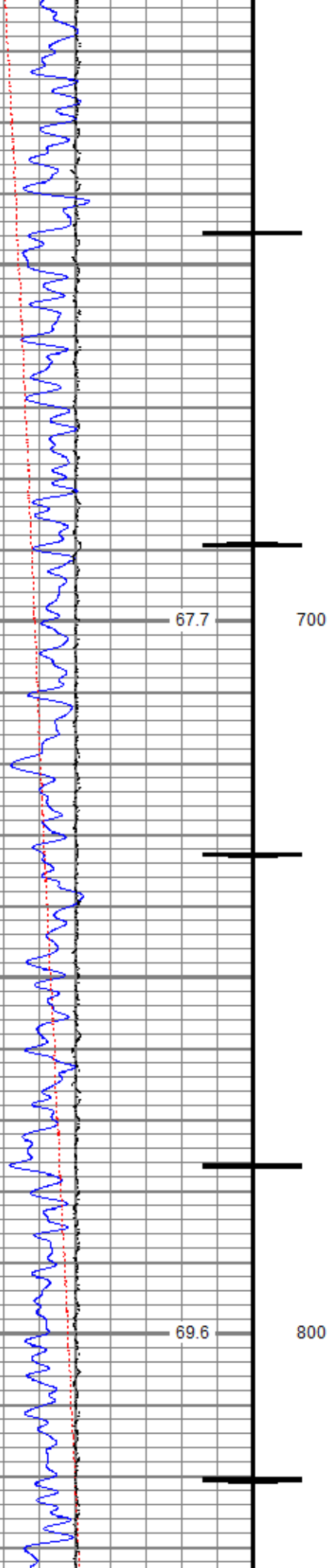
Database File	0512345091_anadarko_newby state 36n-4hz_rbl_cnl_03-12-18\processed_0512345091_anadarko_newby state 36n-4hz_rbl
Dataset Pathname	log/pass10.3
Presentation Format	ros_cnl_probe
Dataset Creation	Mon Mar 12 13:09:27 2018
Charted by	Depth in Feet scaled 1:240

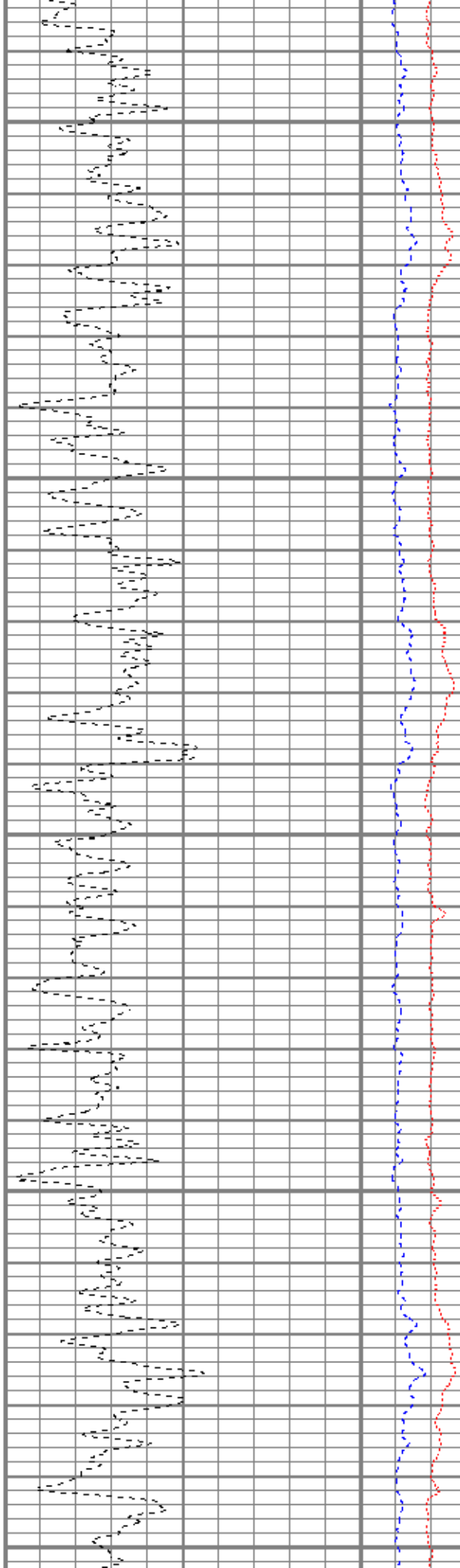
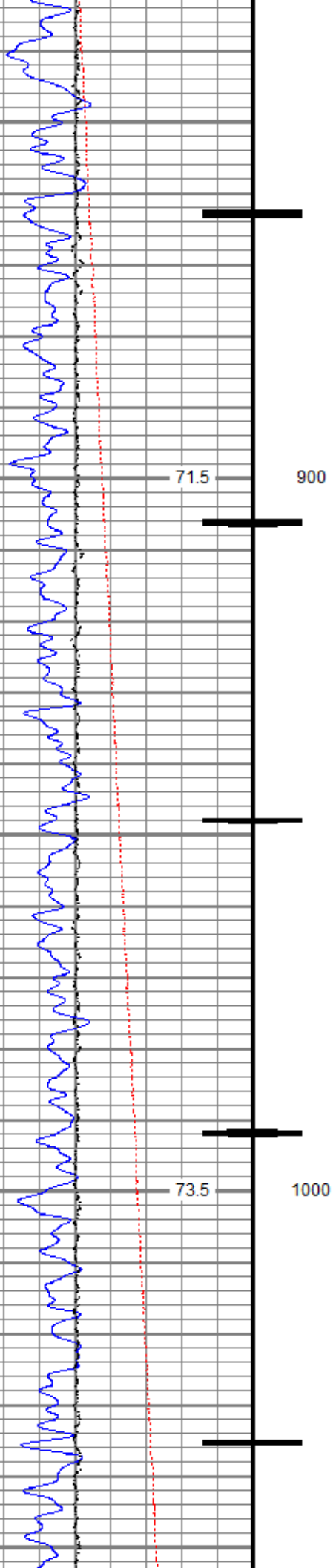
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Casing Collar Locator						0	Near Neutron (cps)	5000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

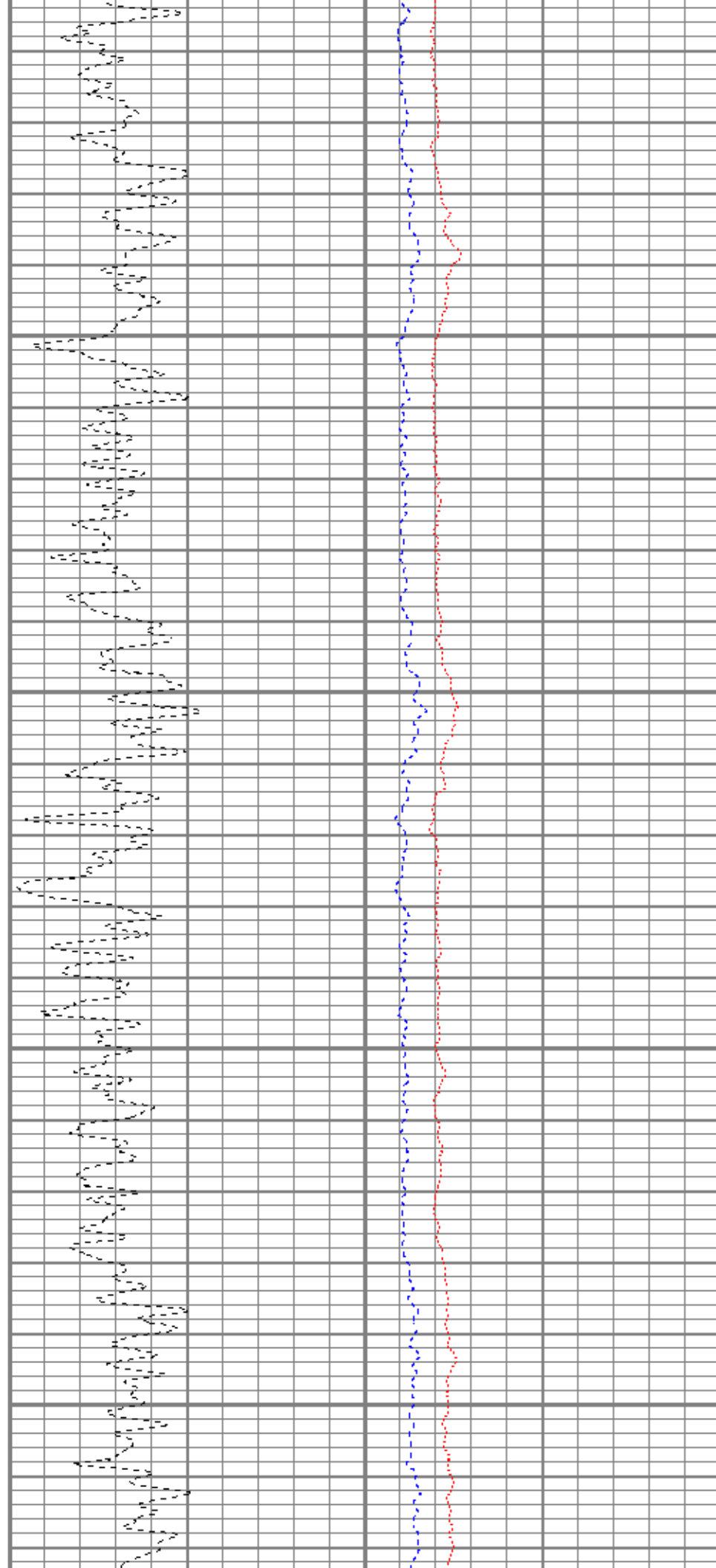
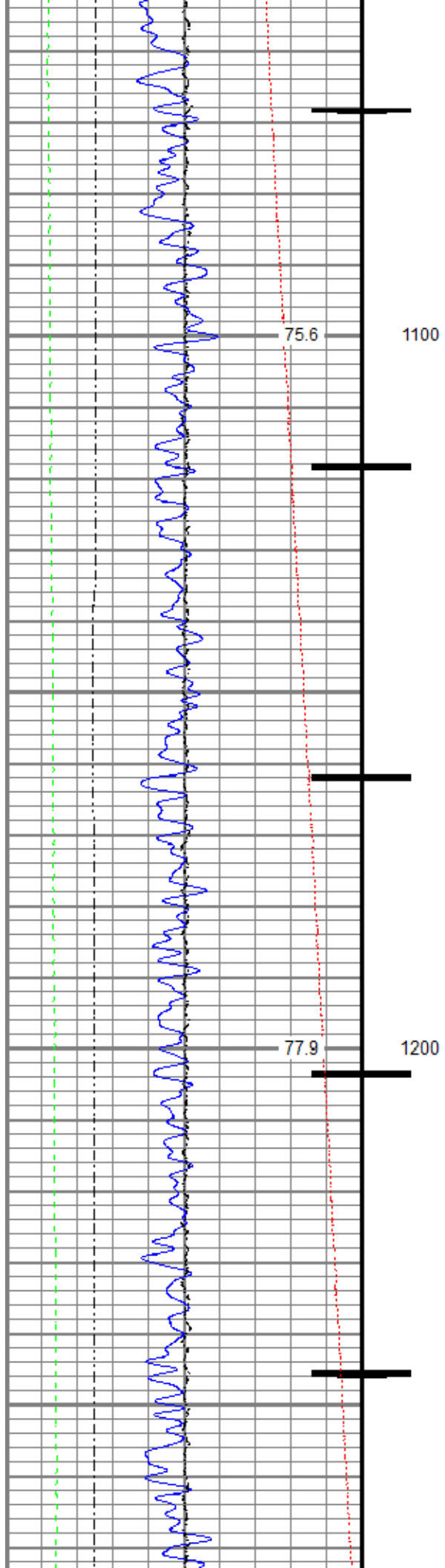


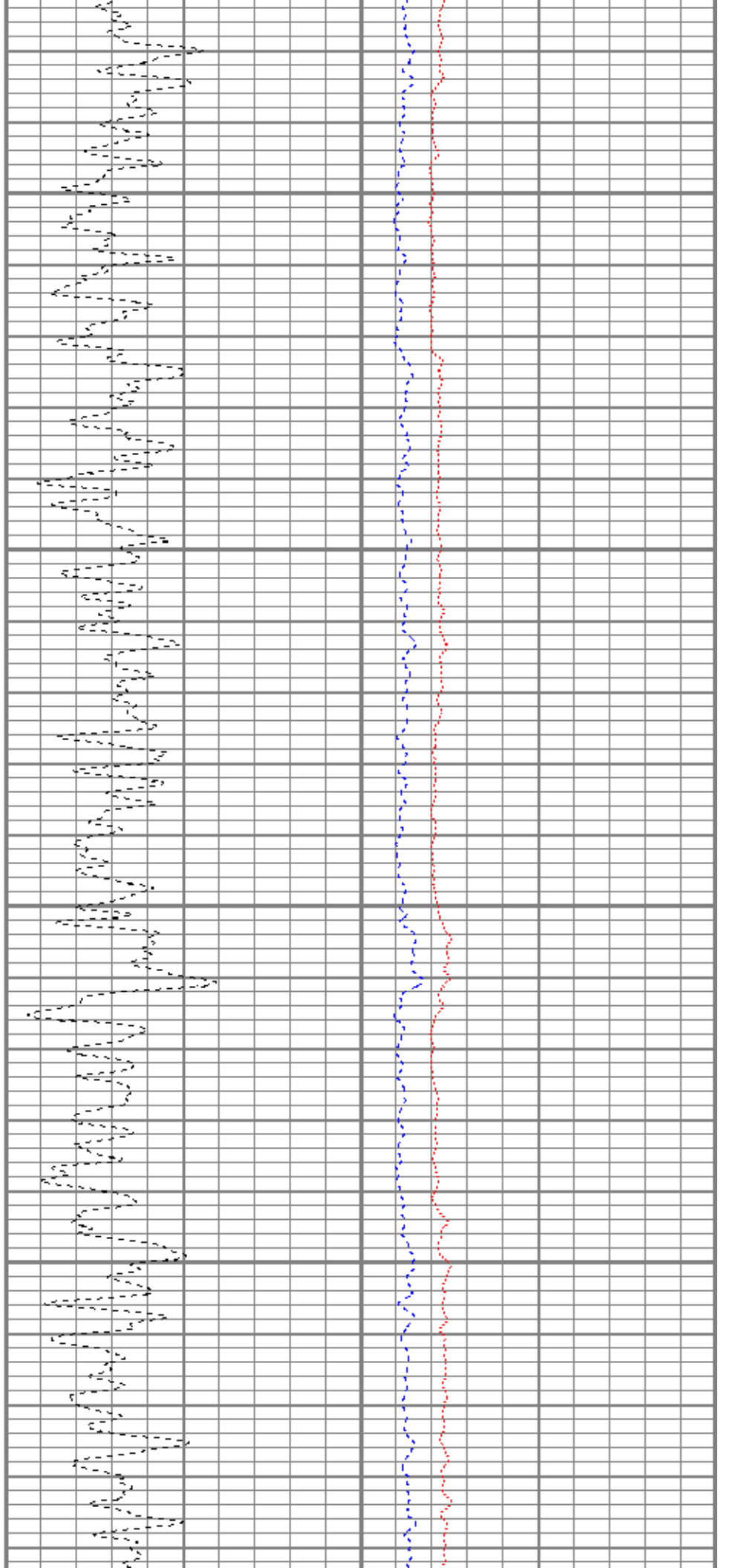
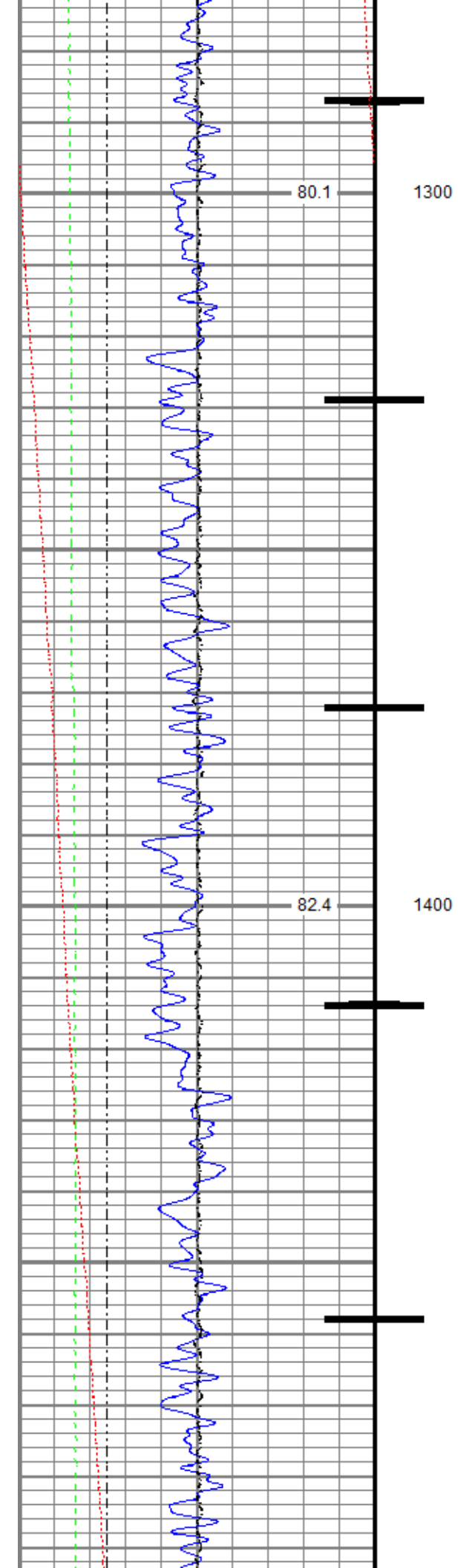


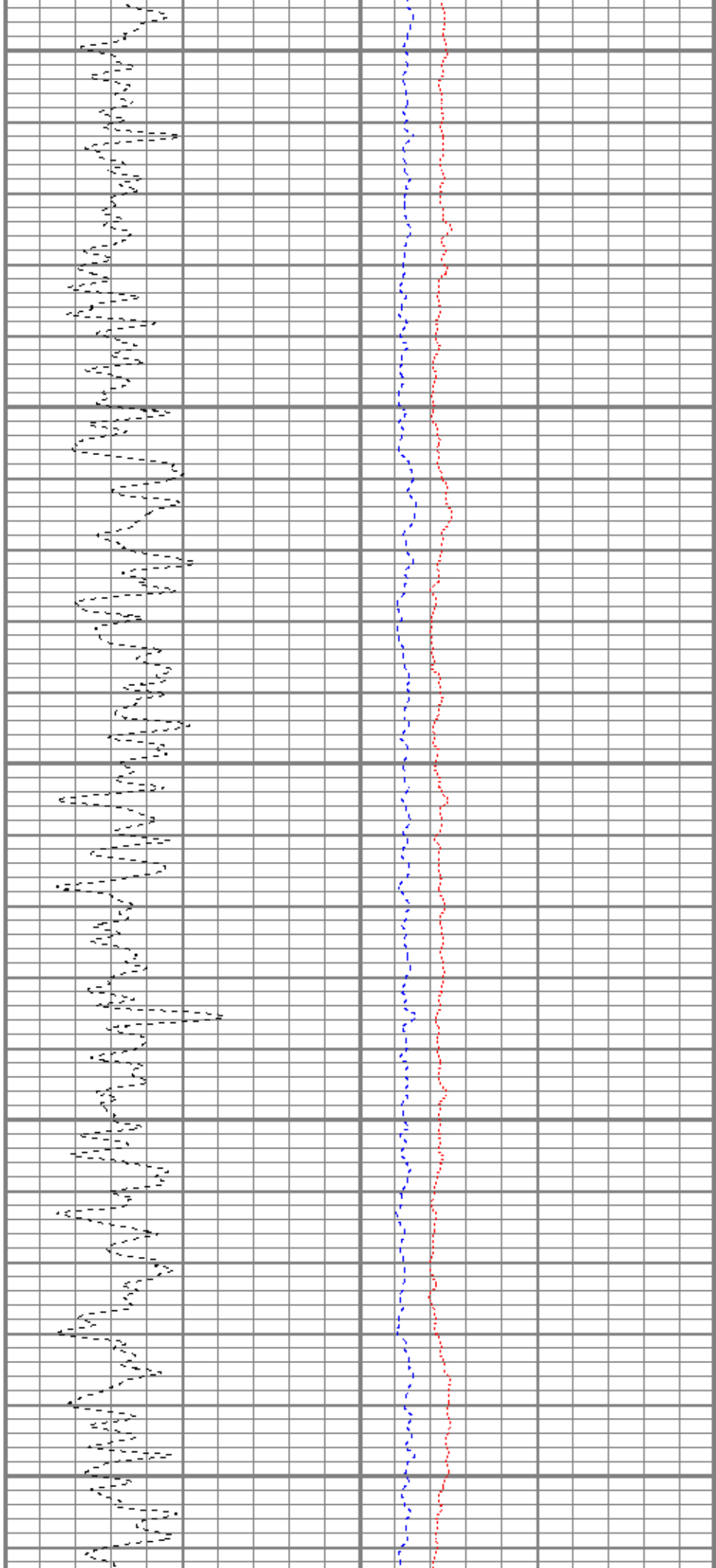
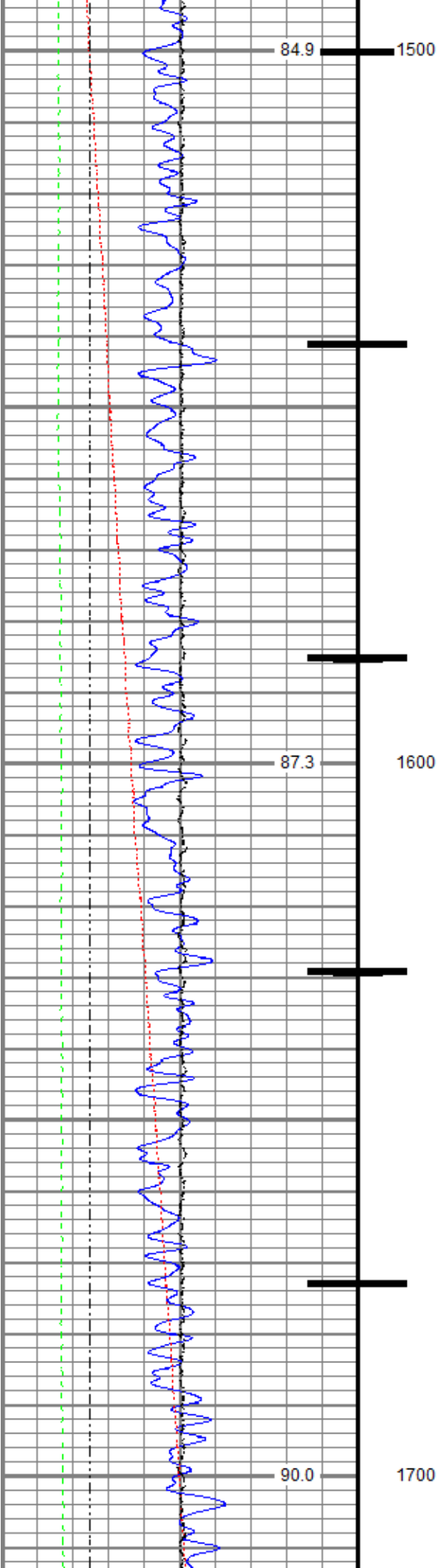


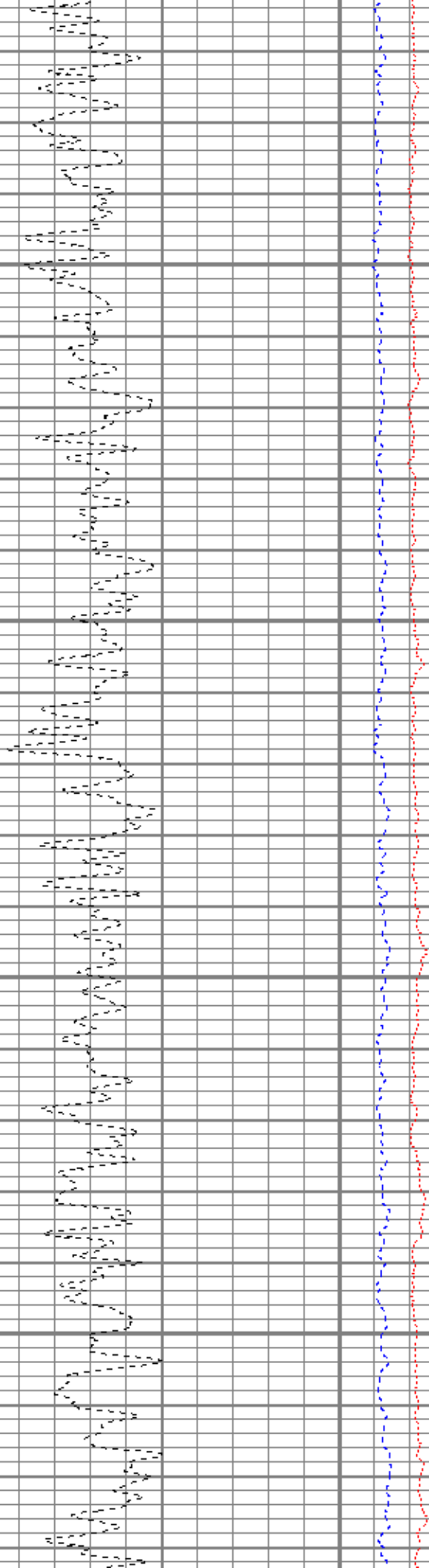
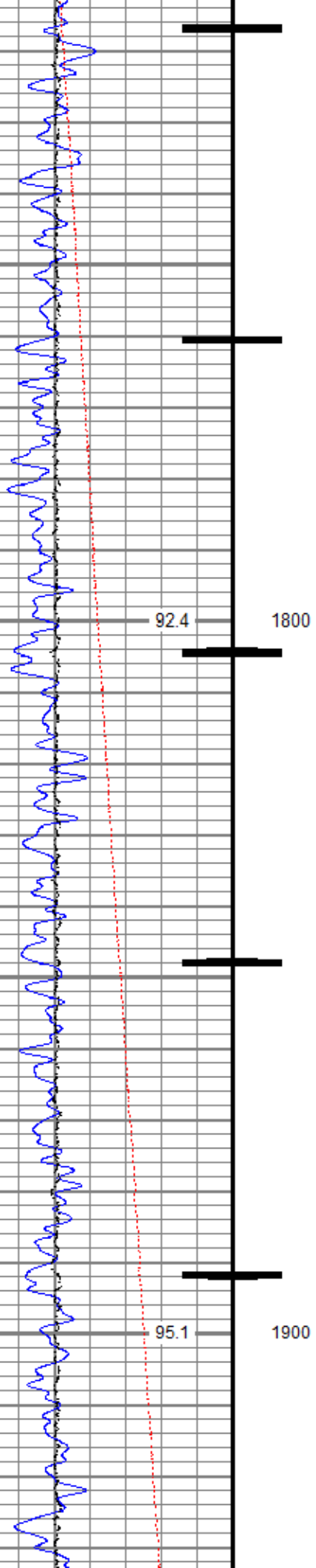


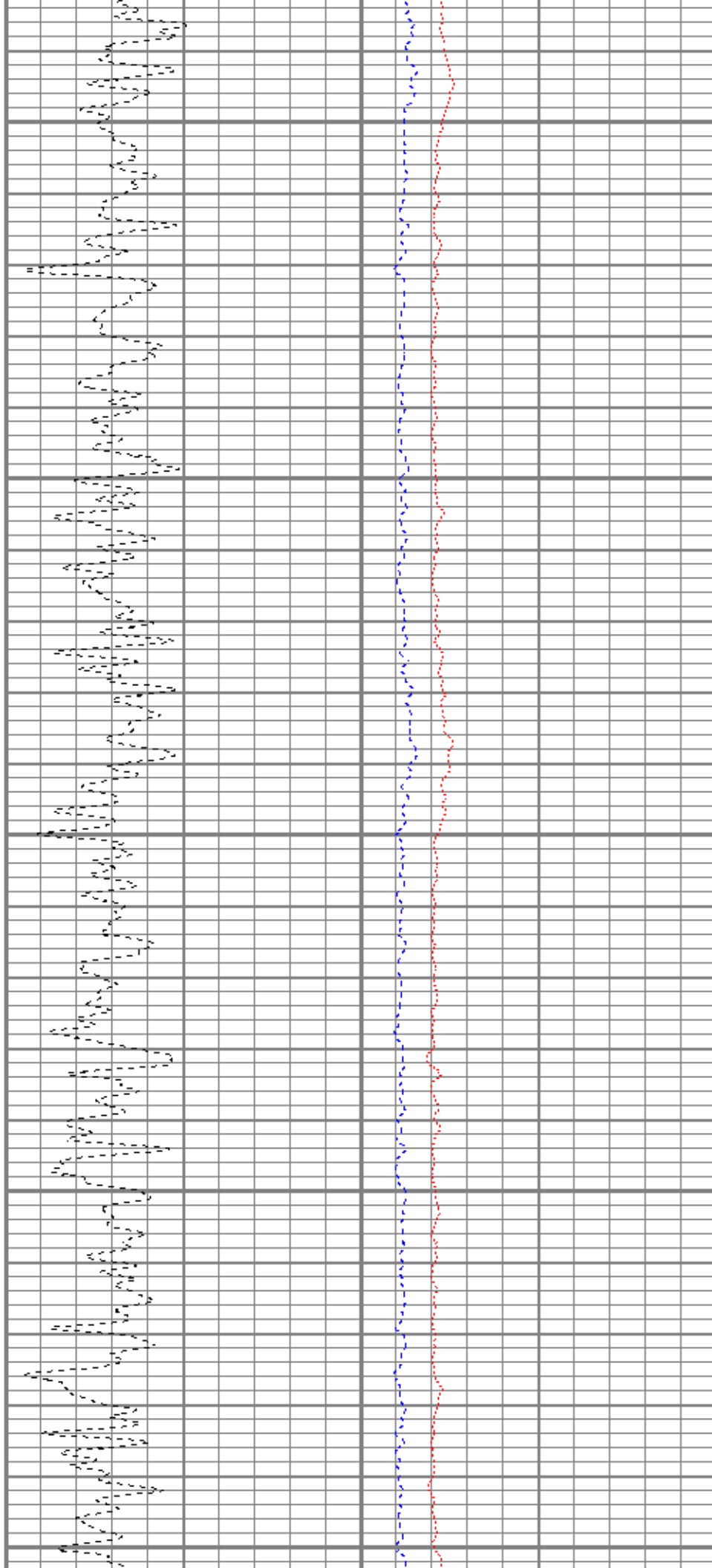
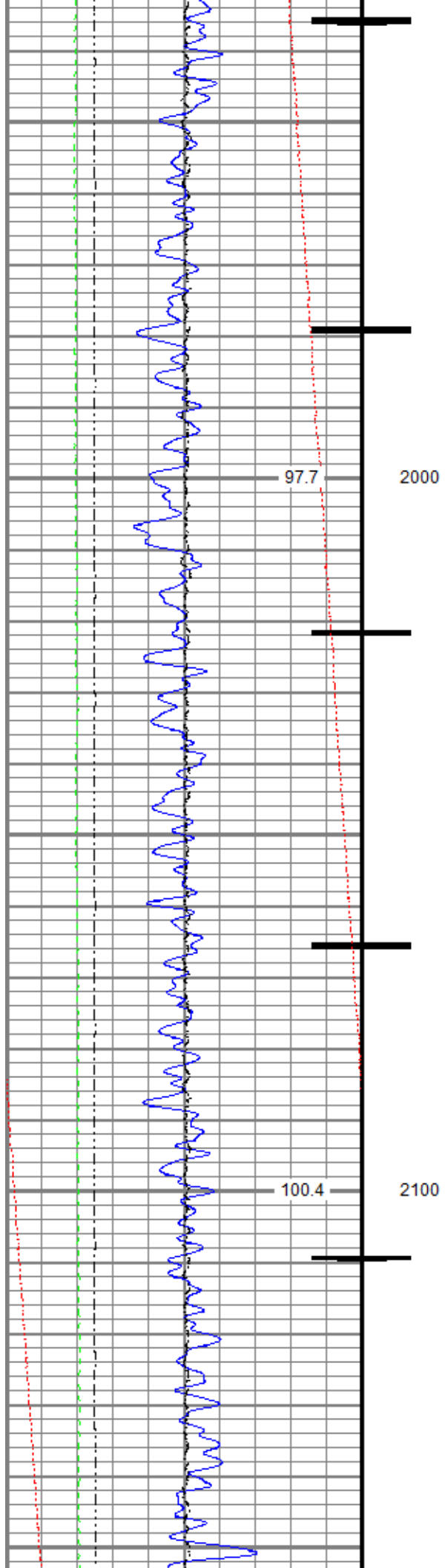


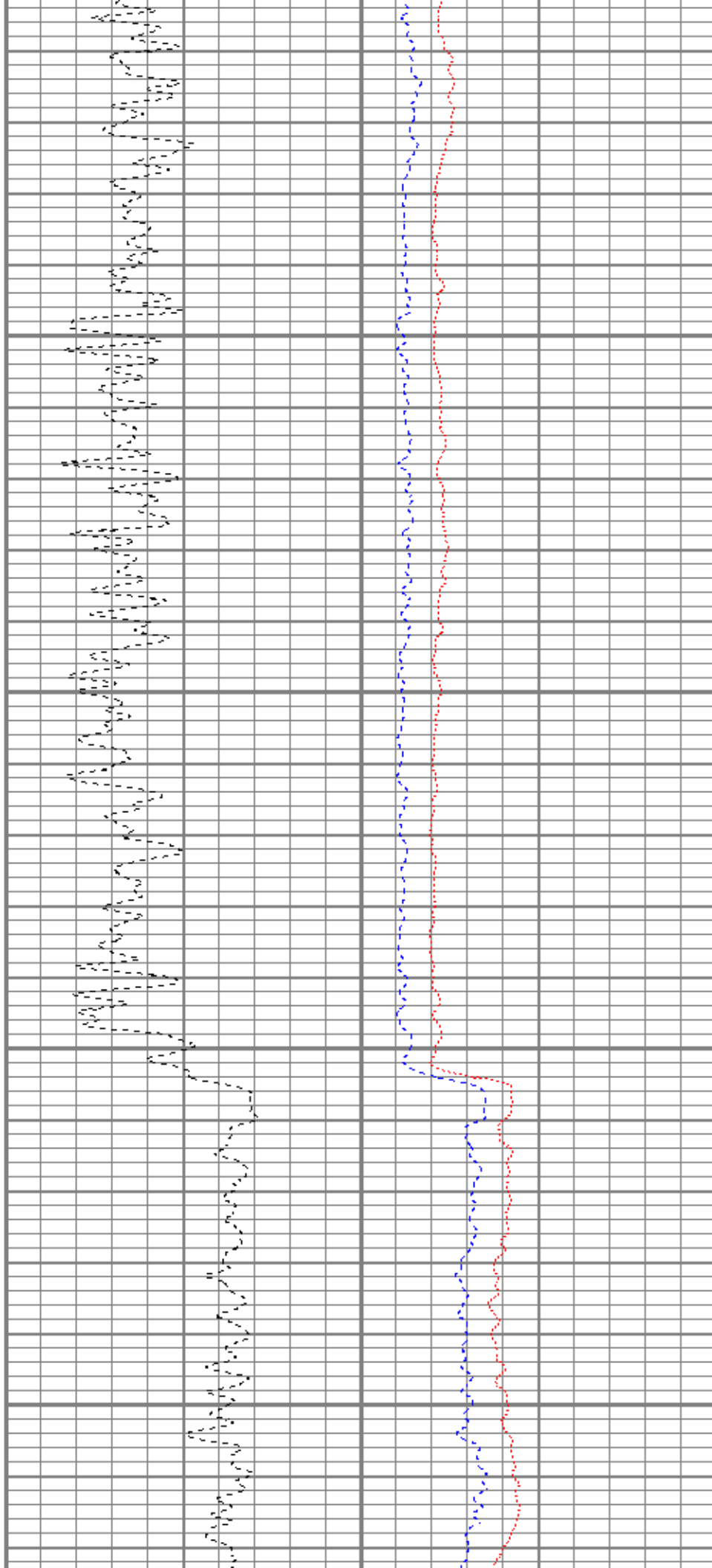
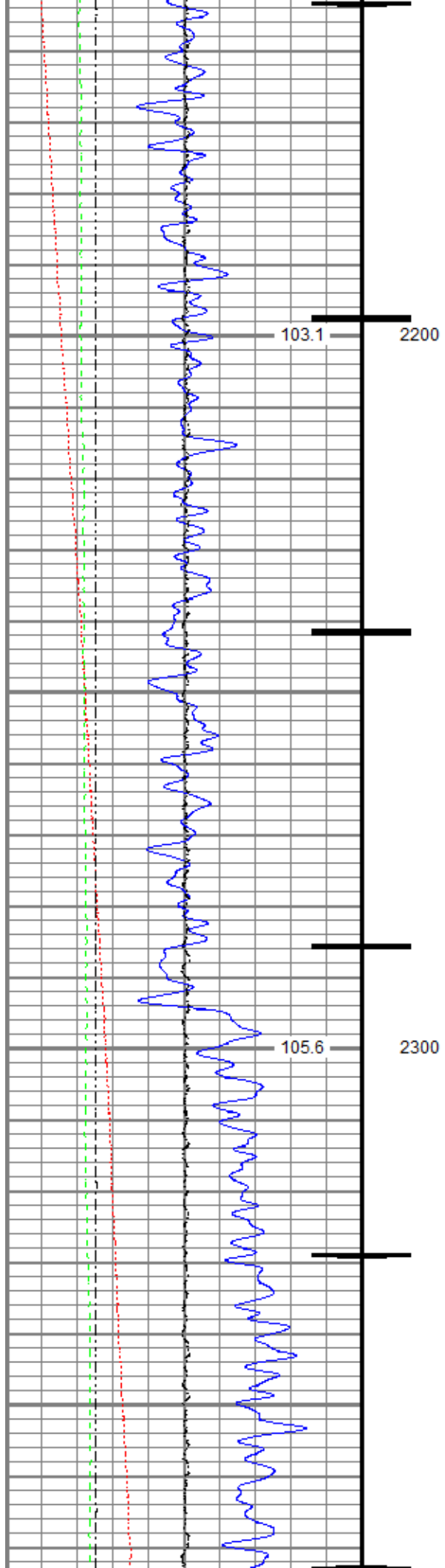


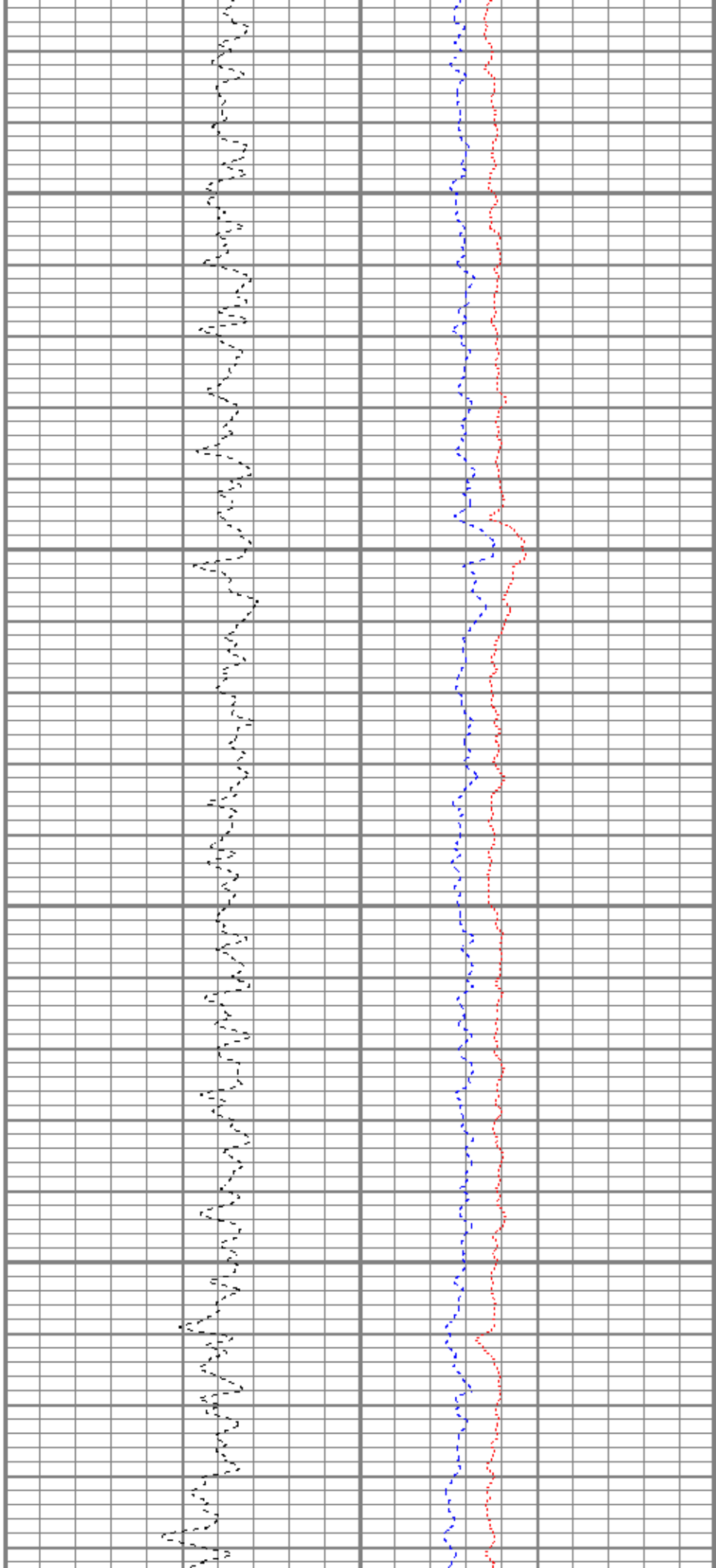
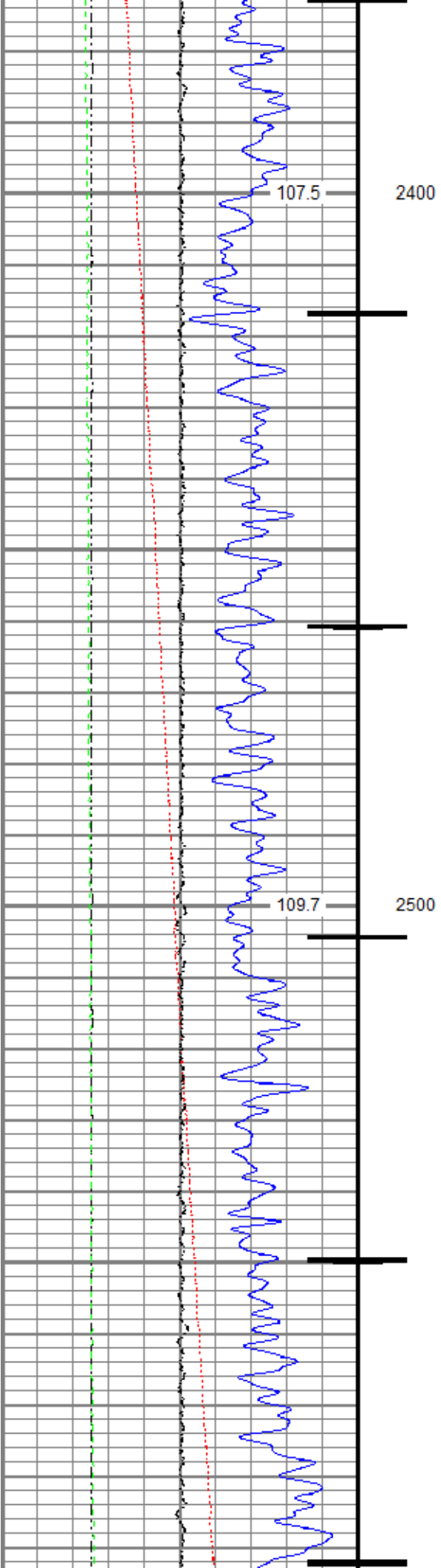


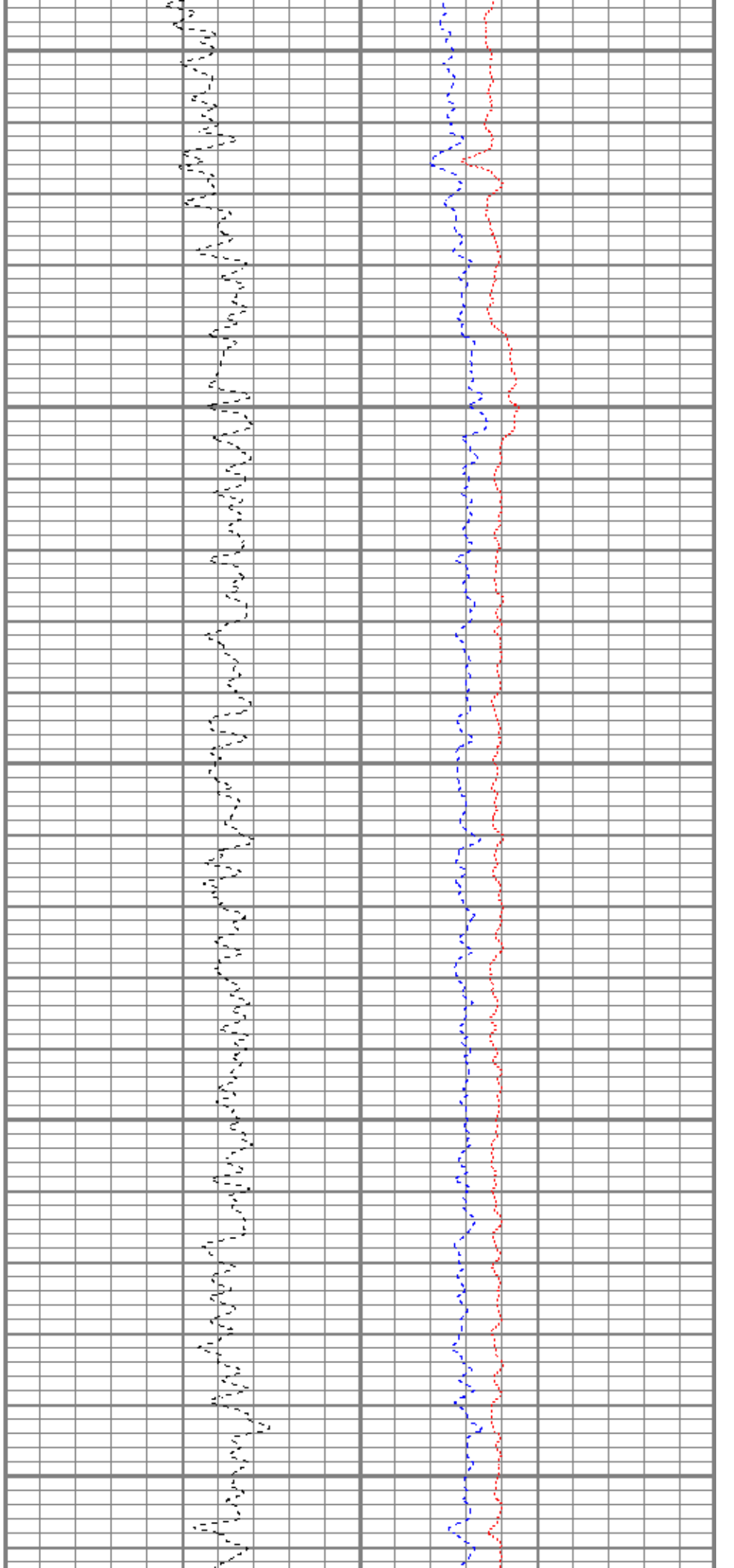
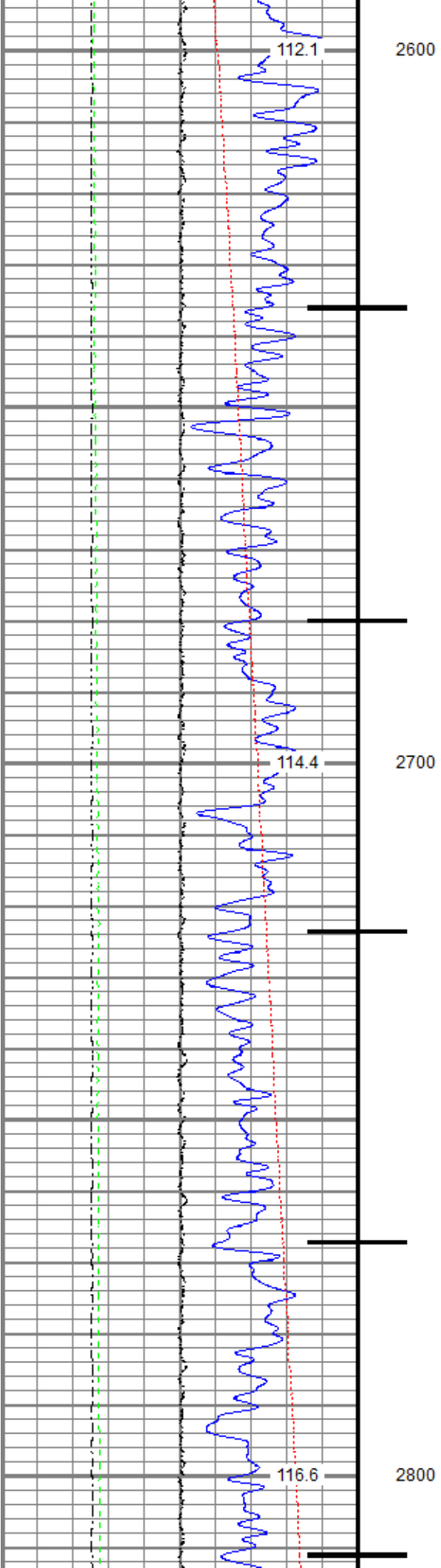


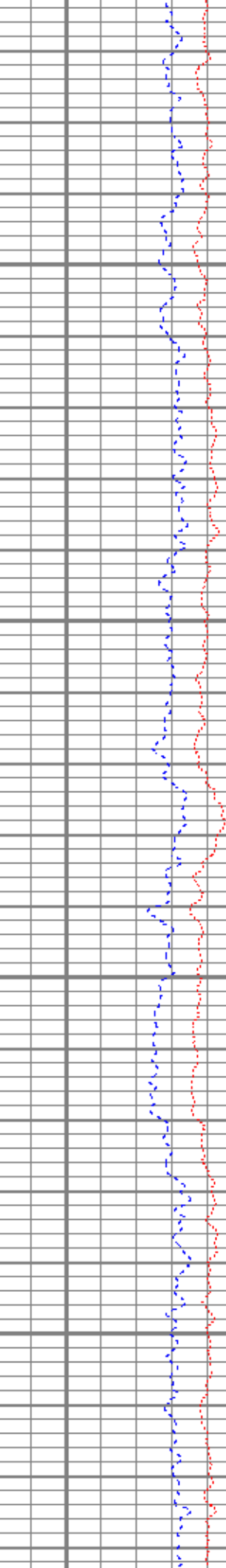
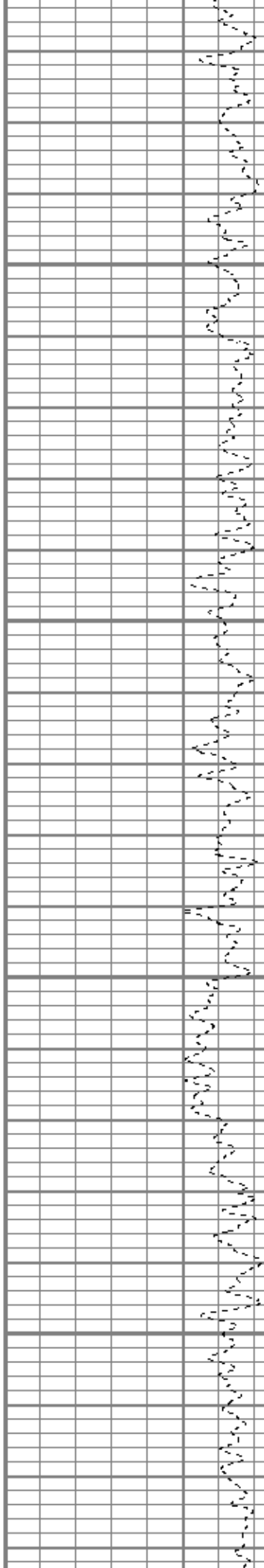
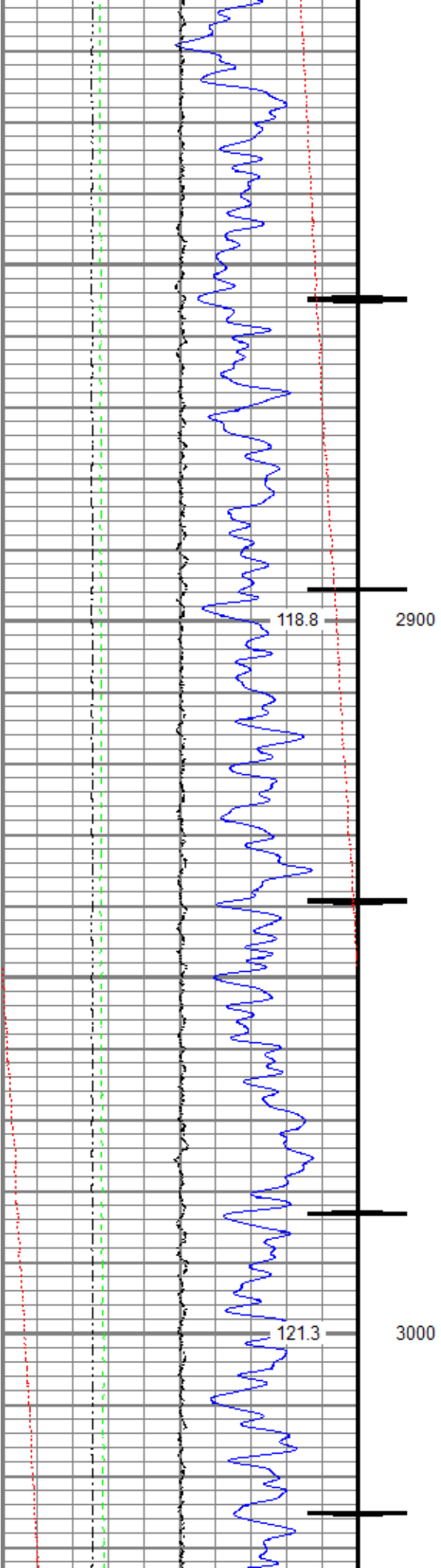


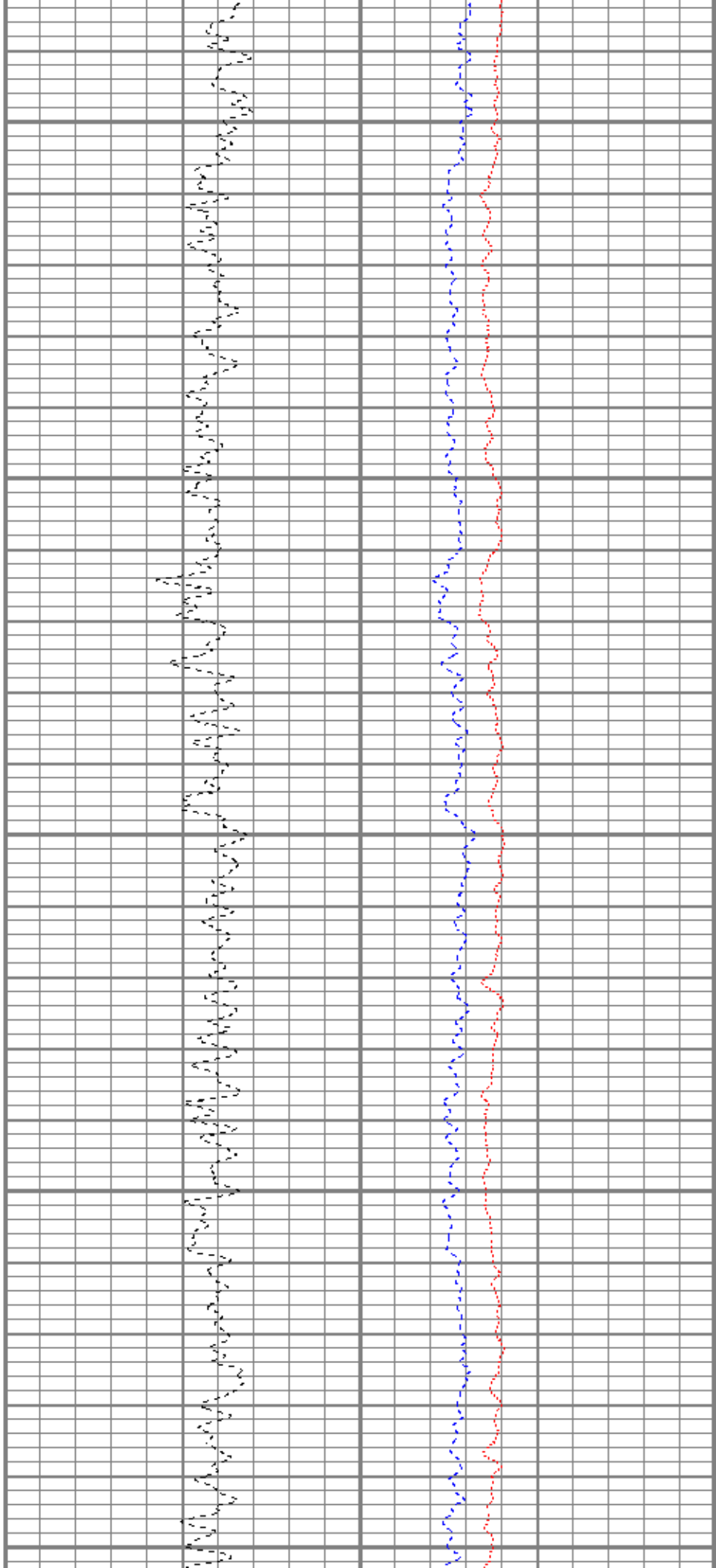
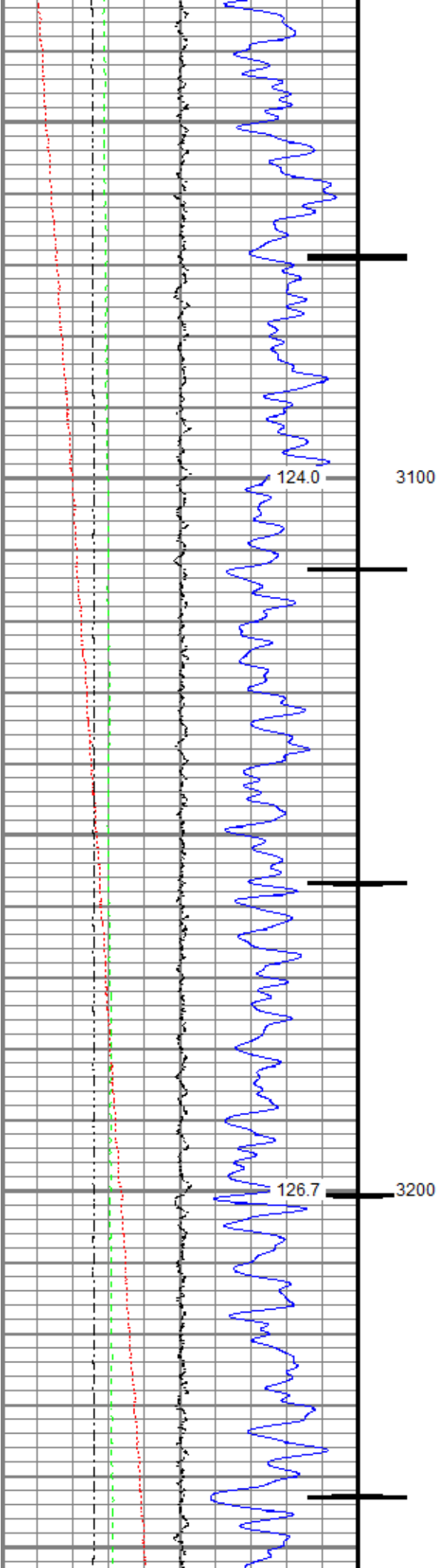


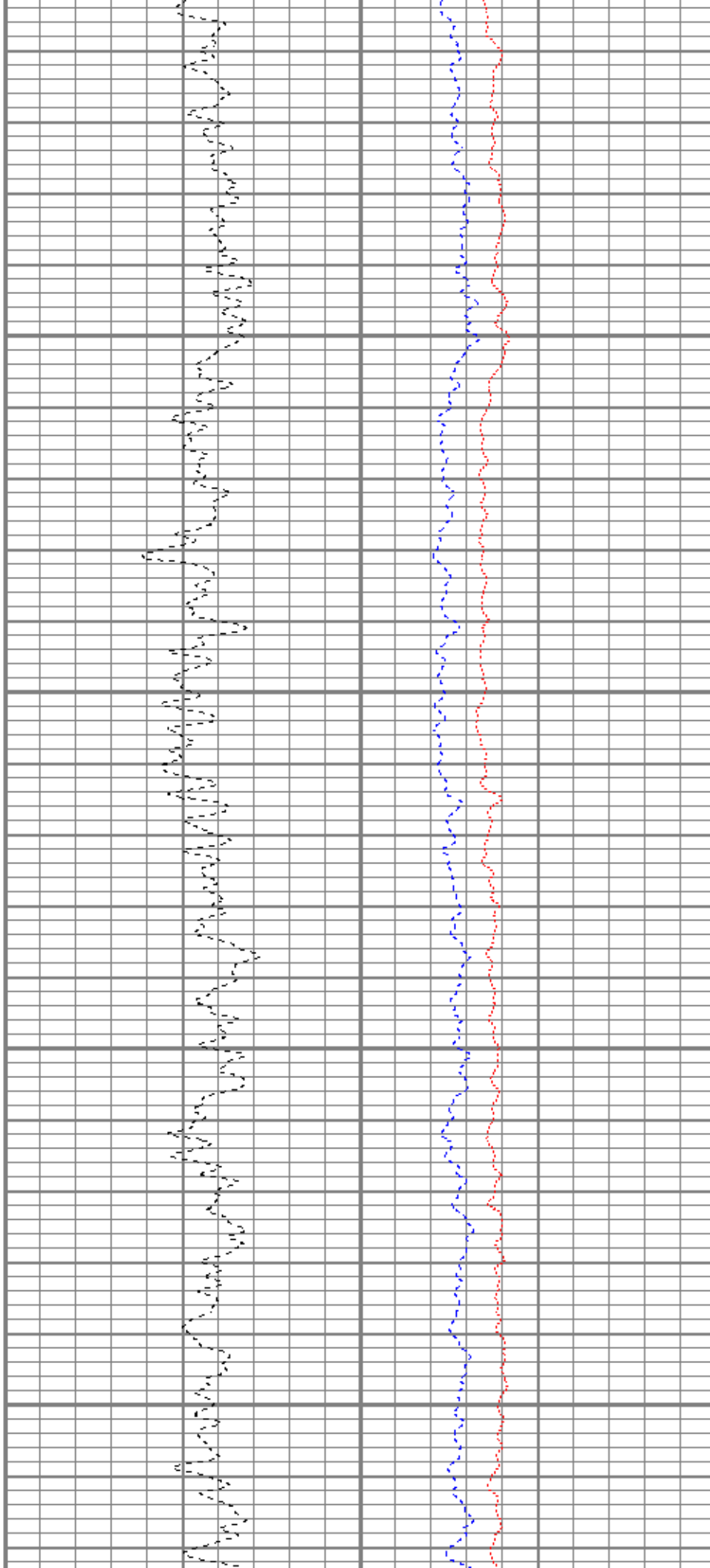
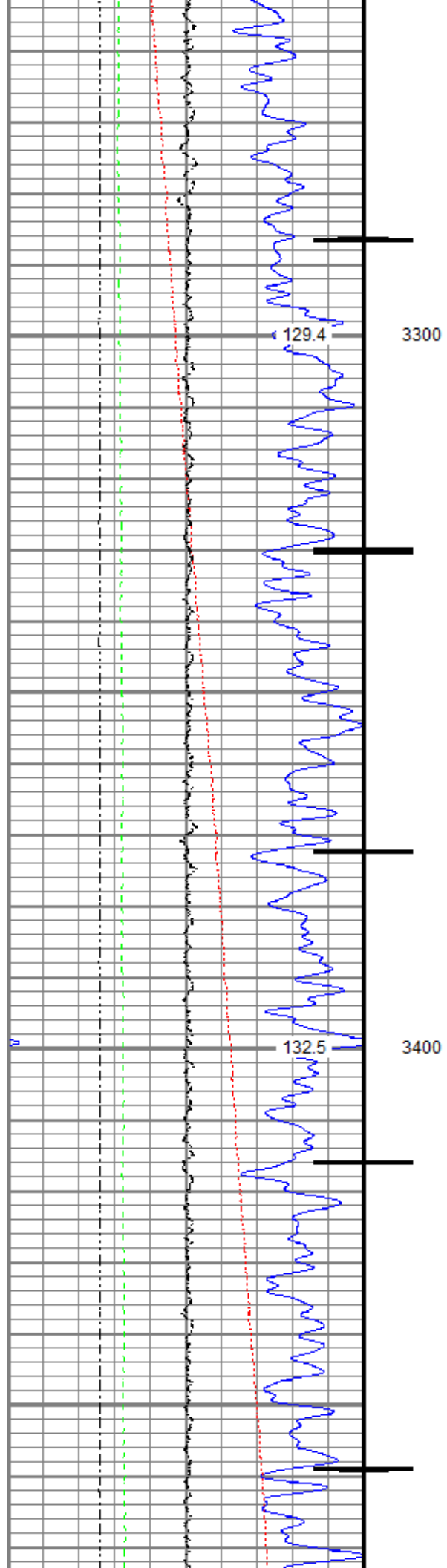


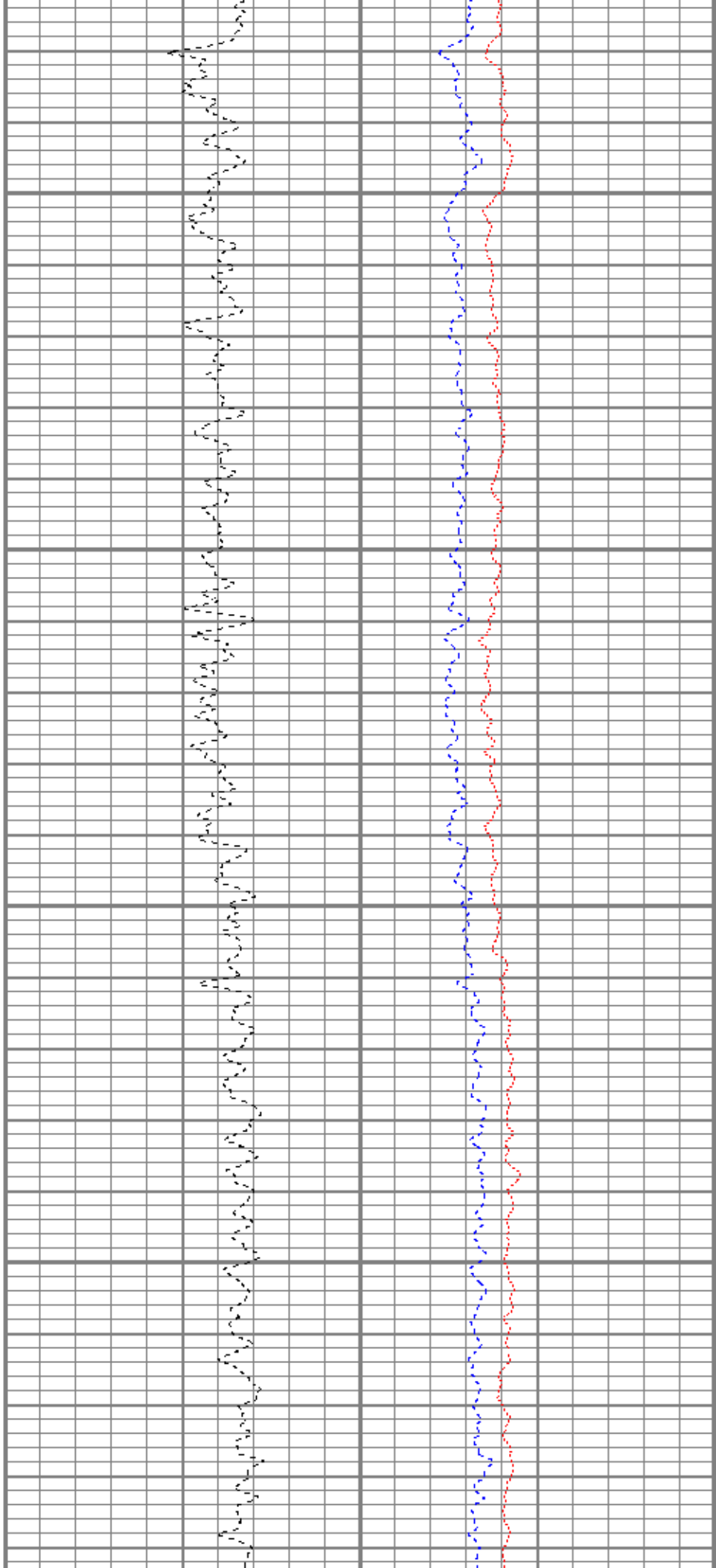
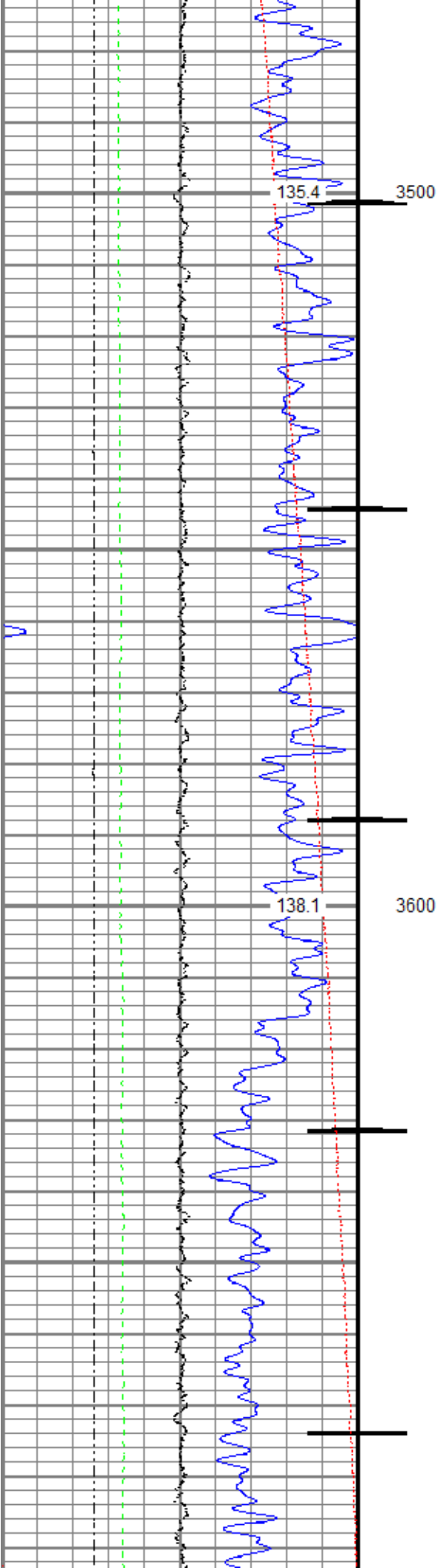


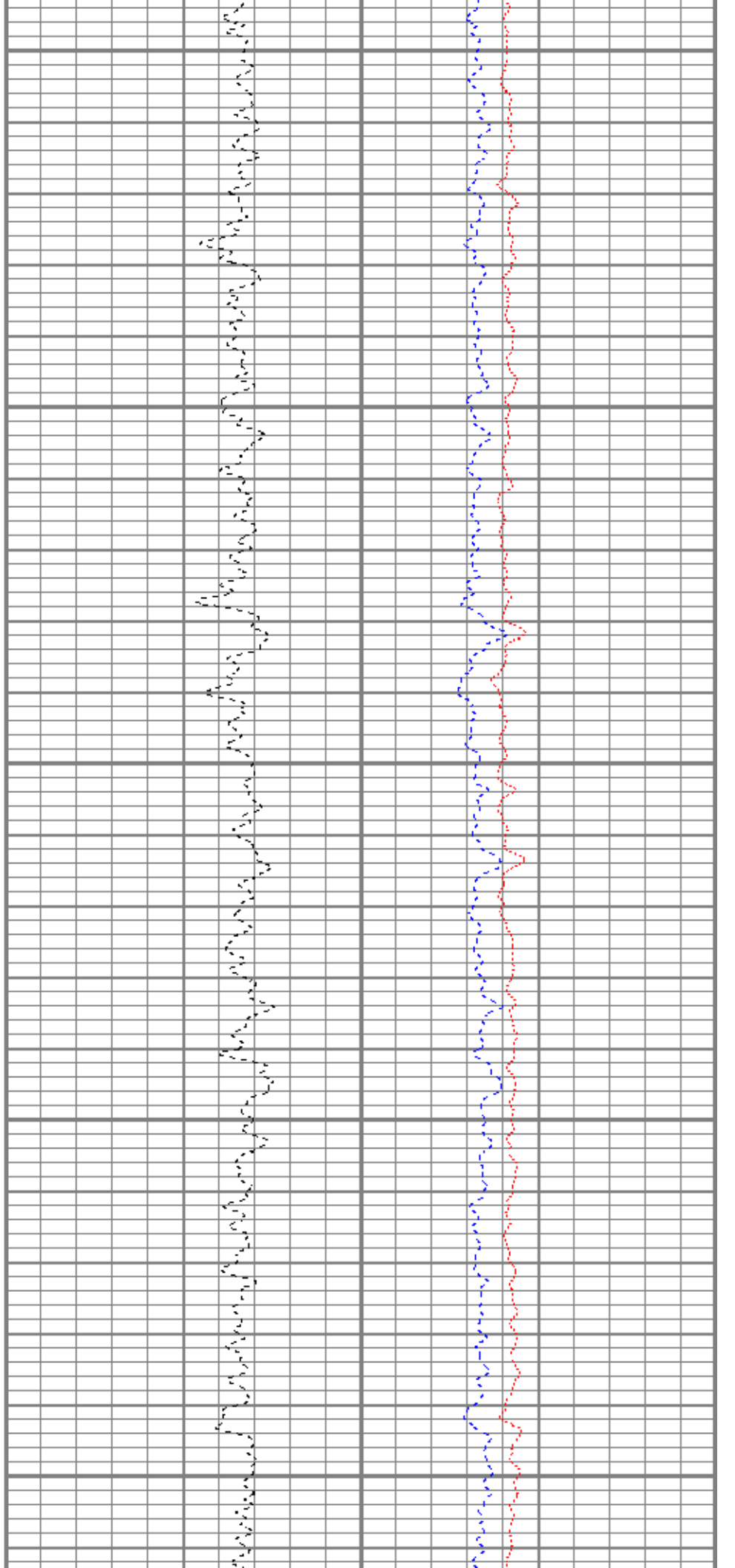
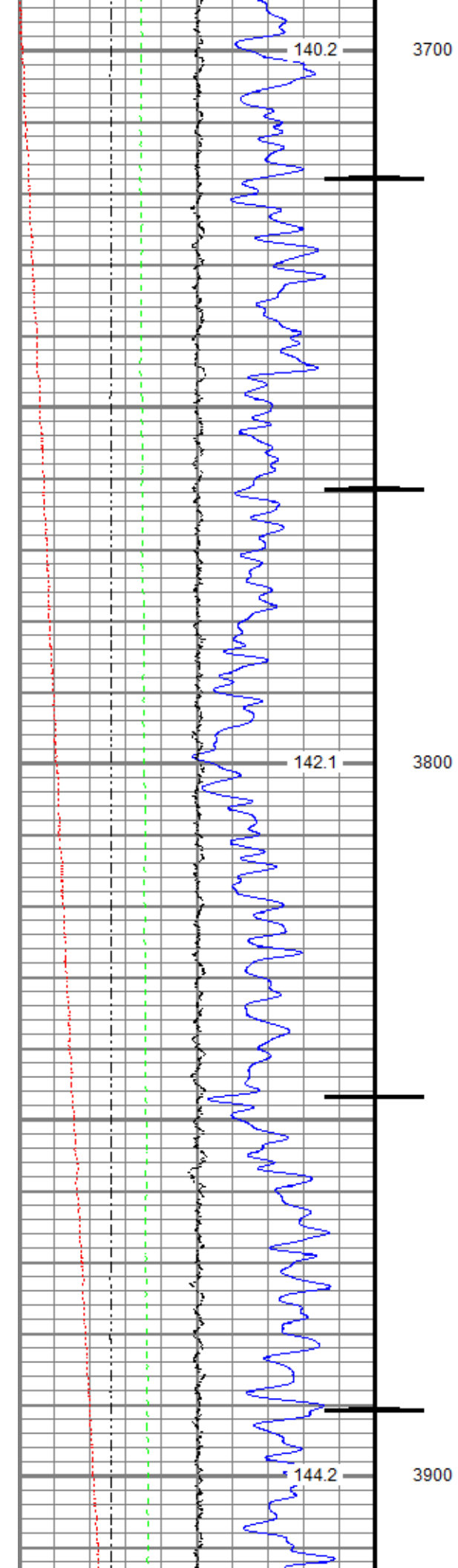


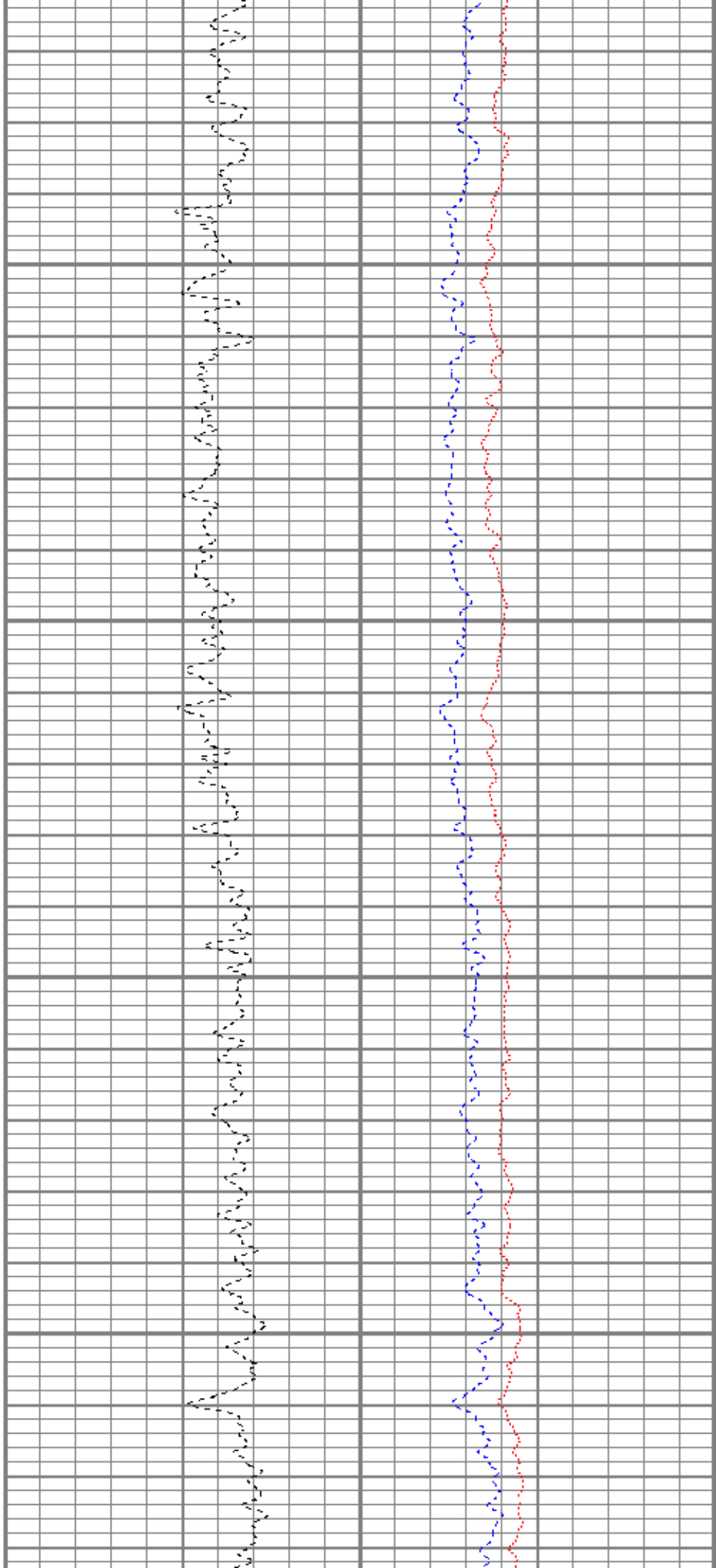
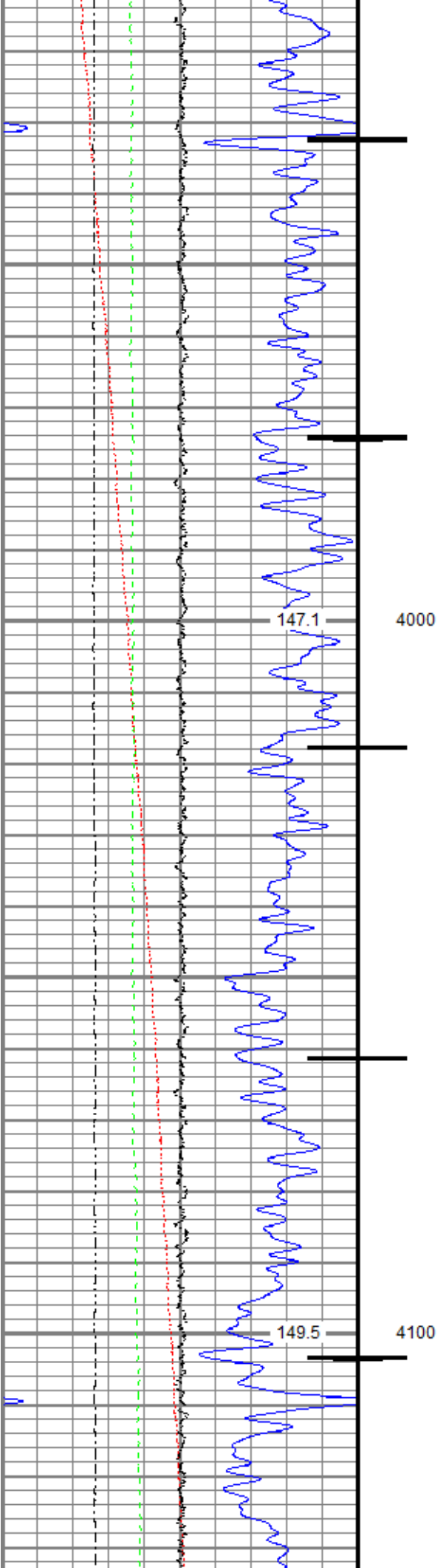


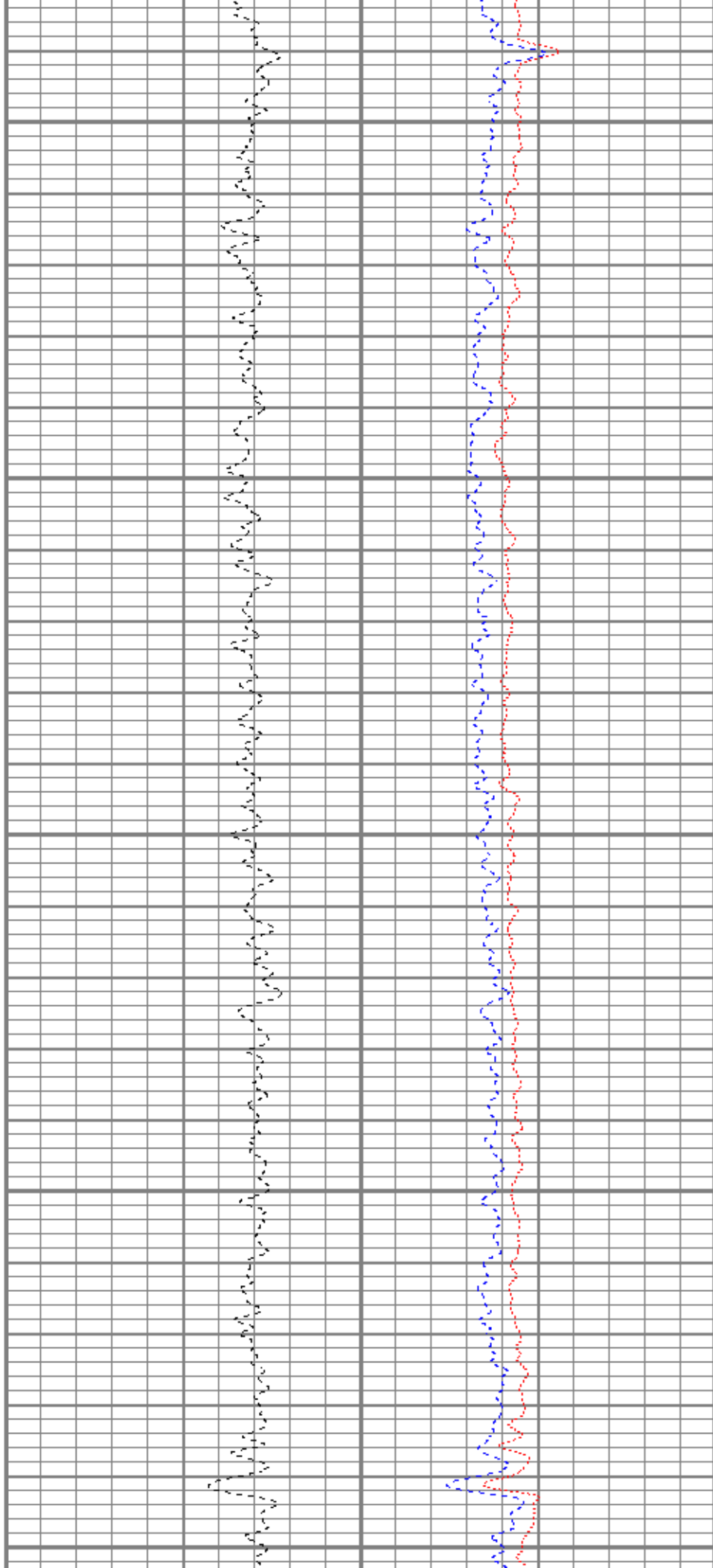
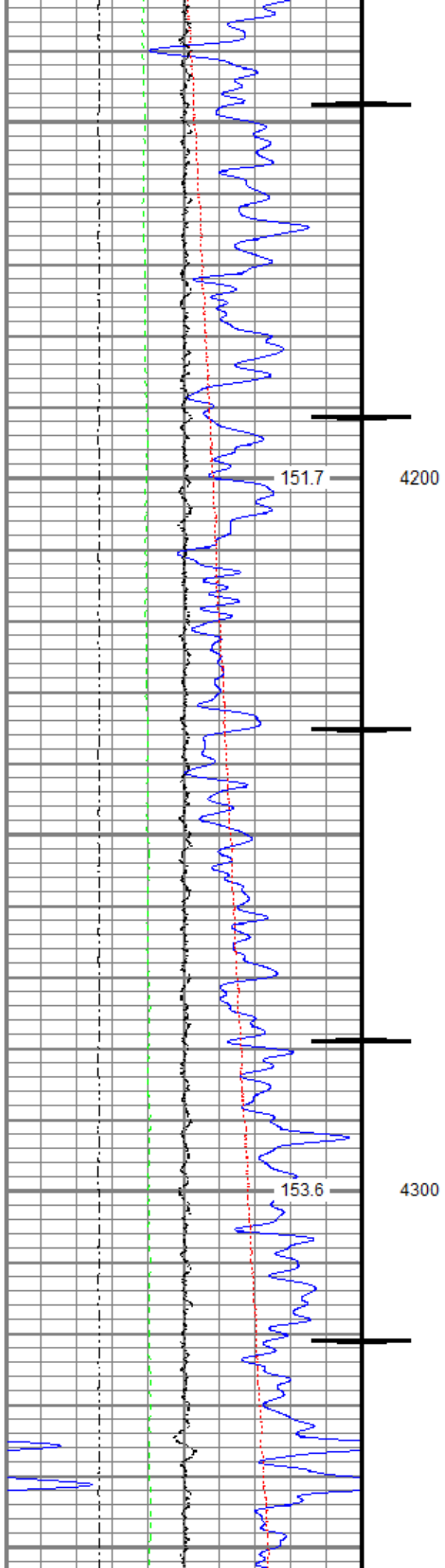


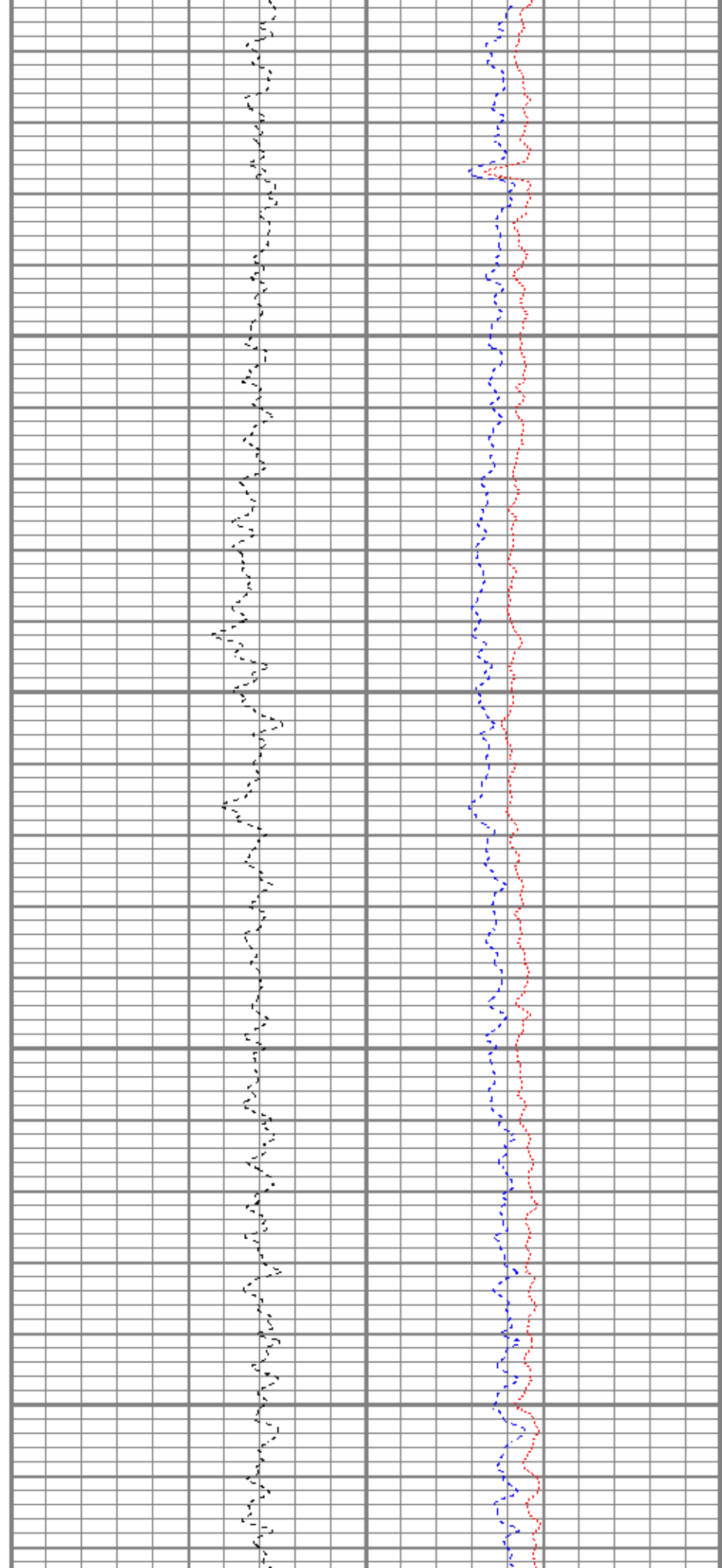
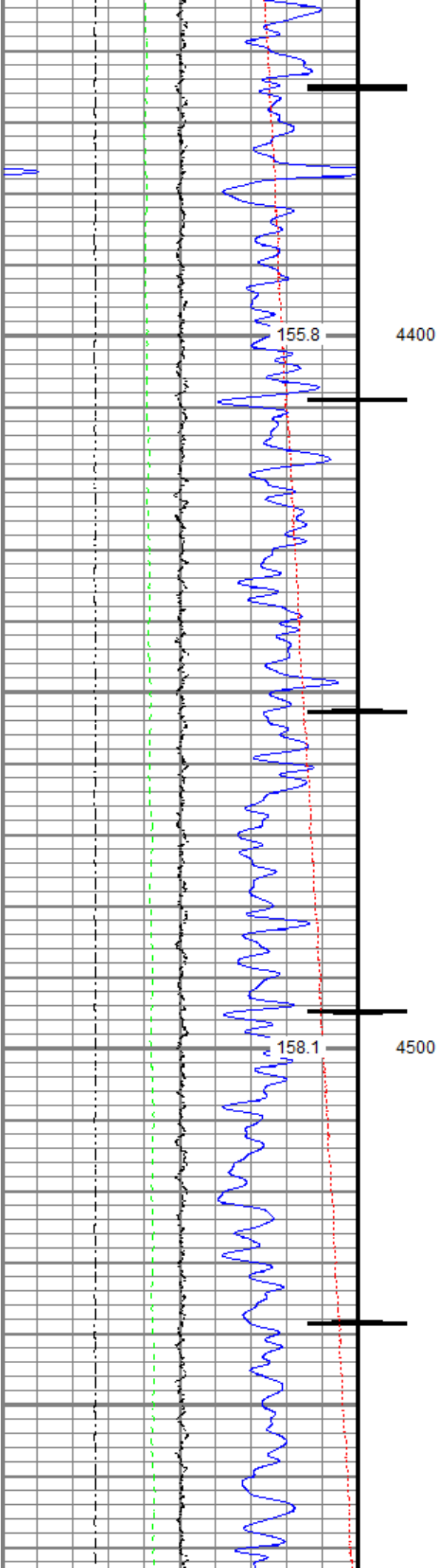


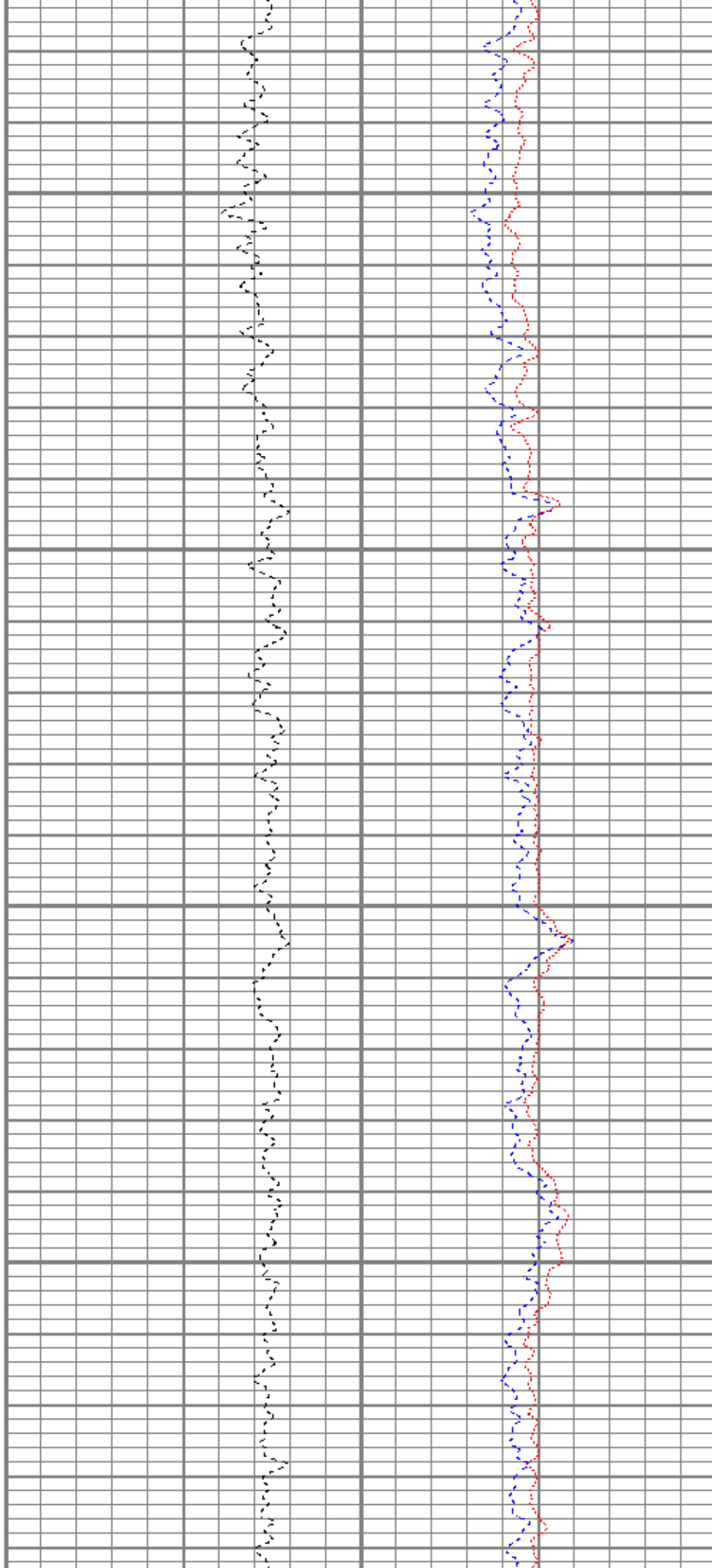
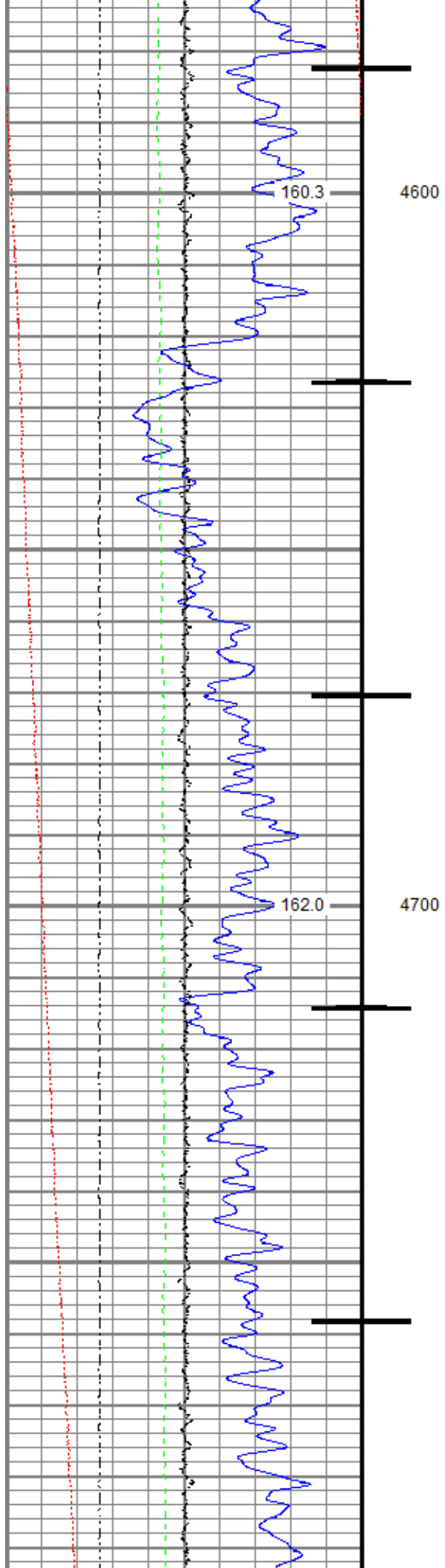


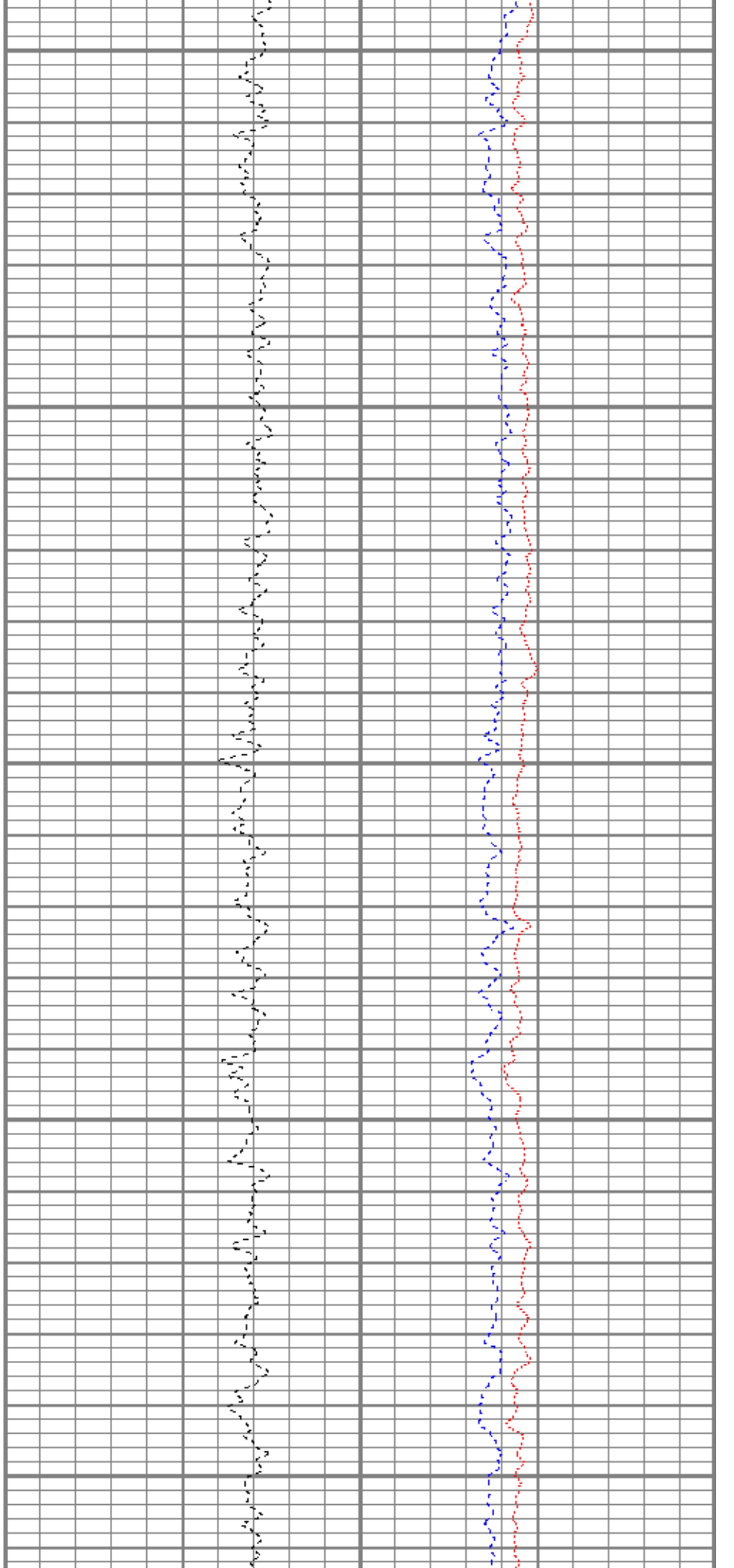
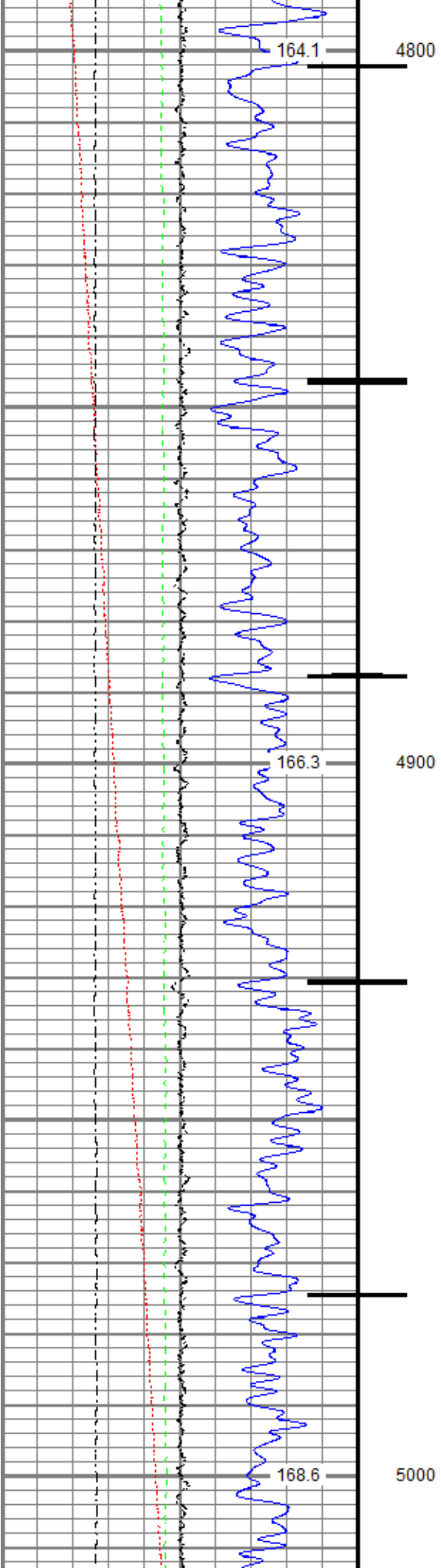


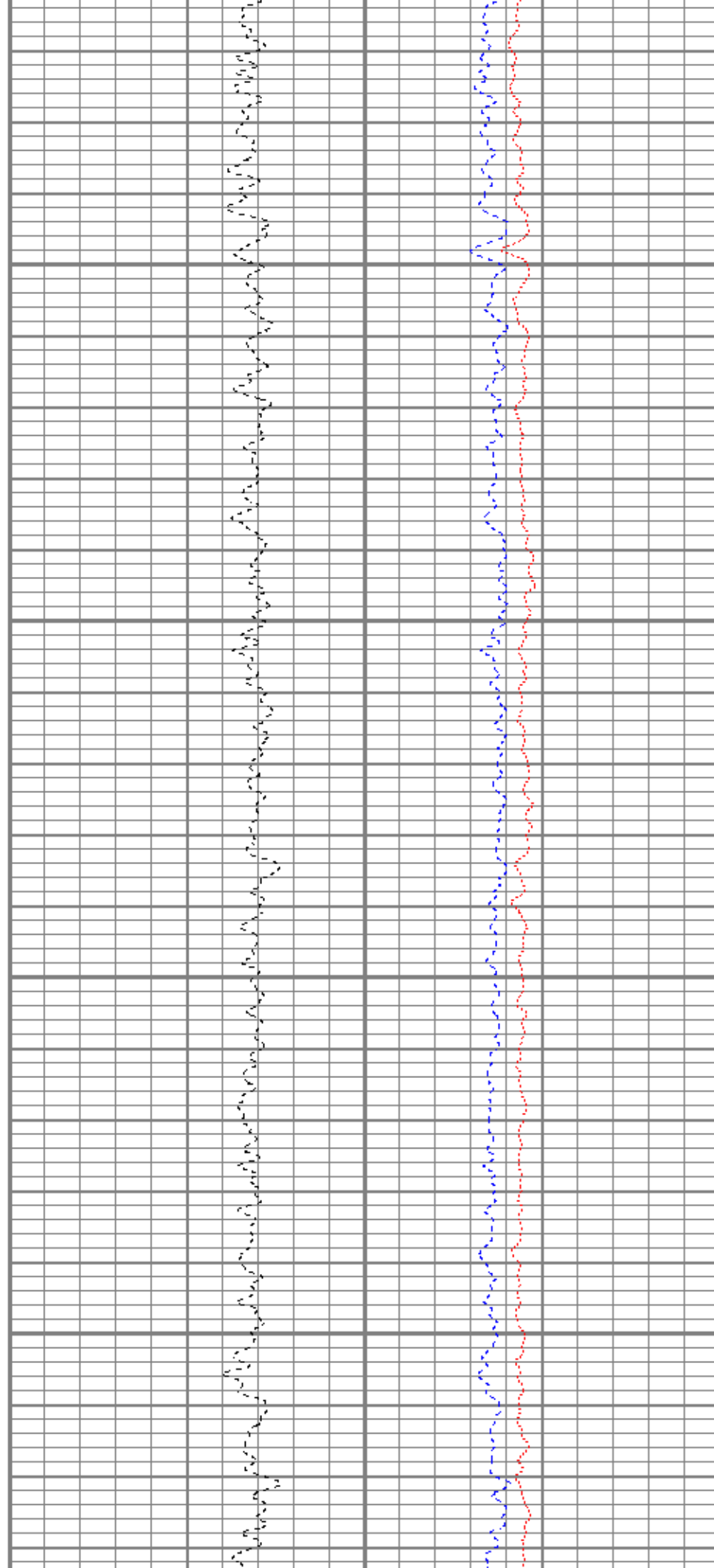
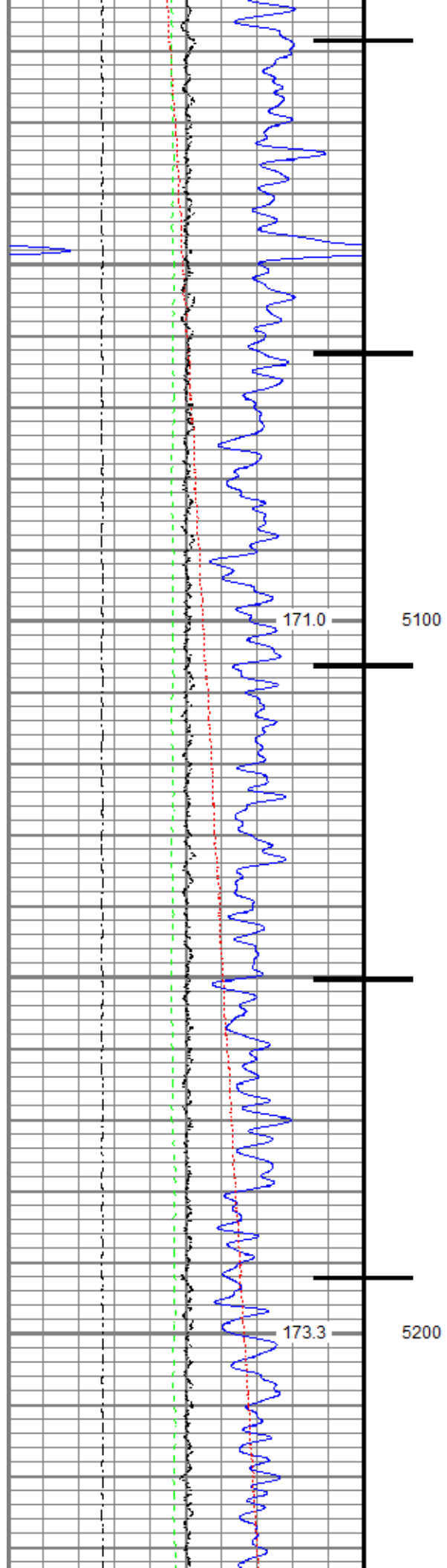


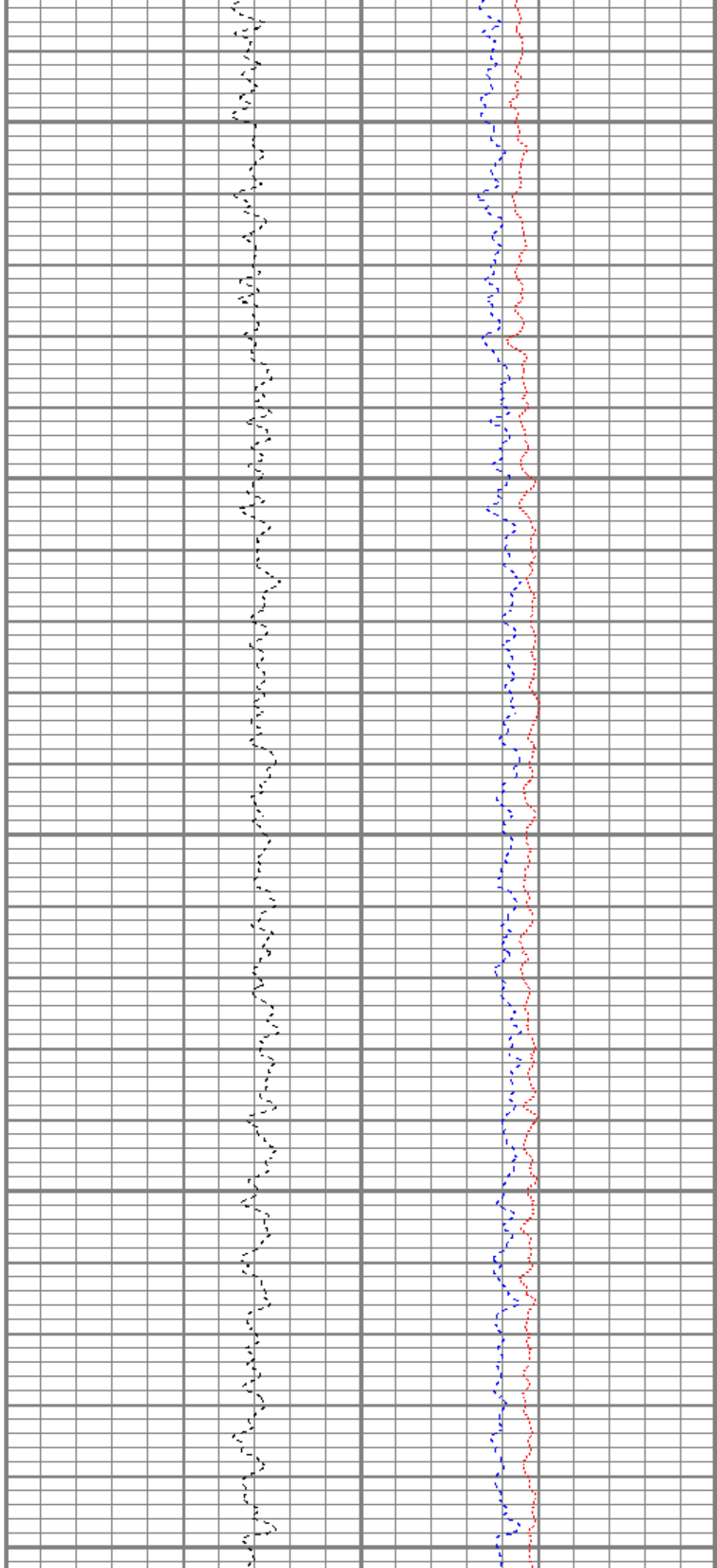
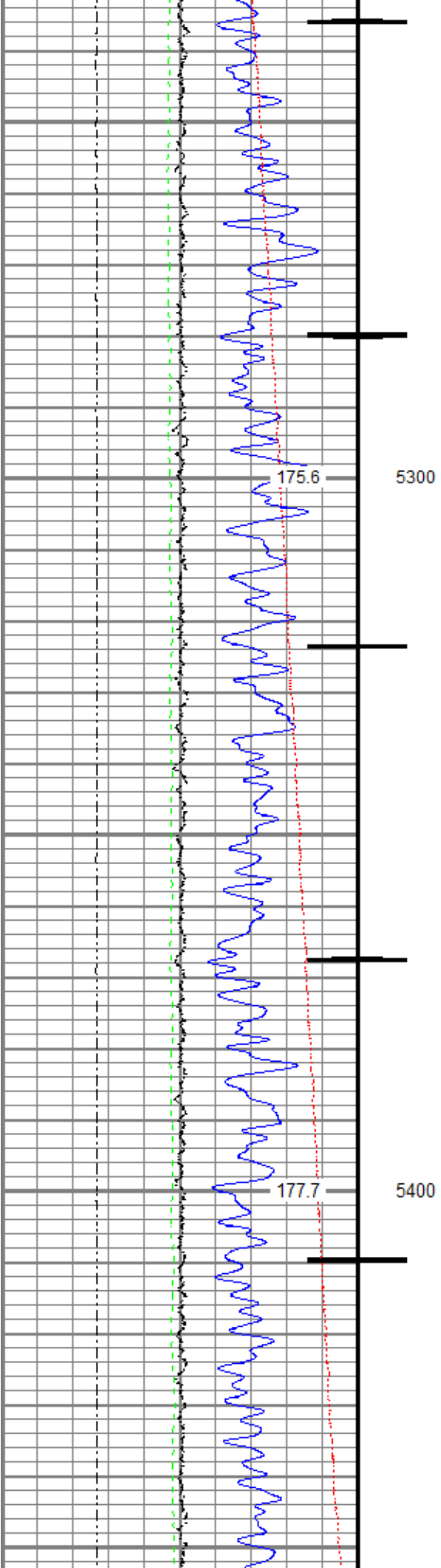


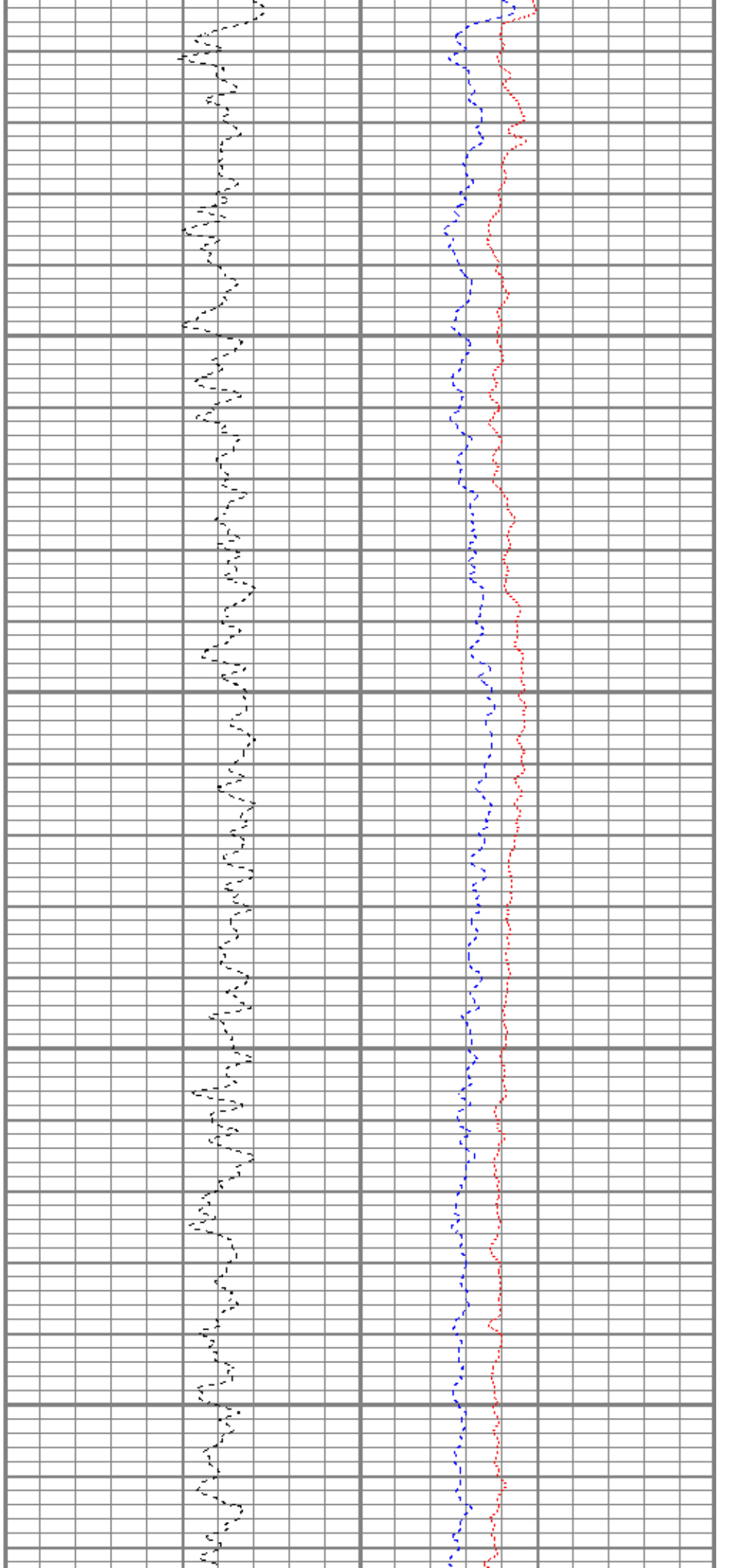
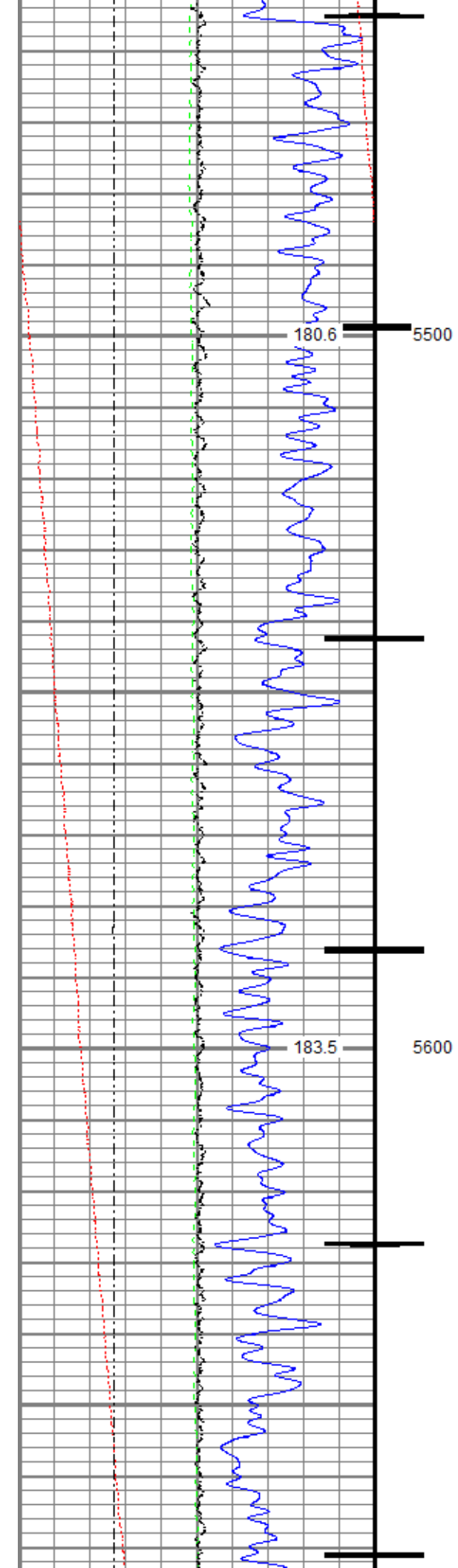


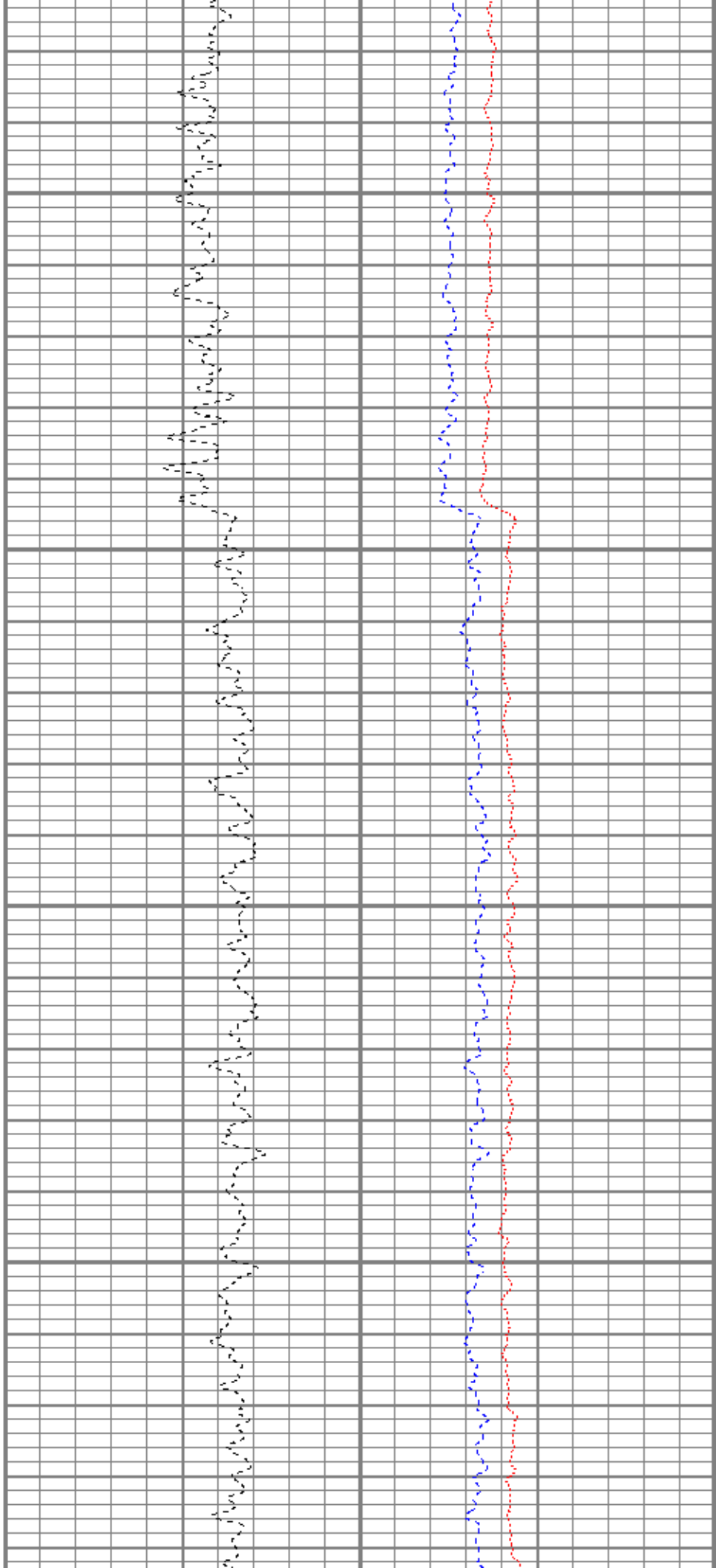
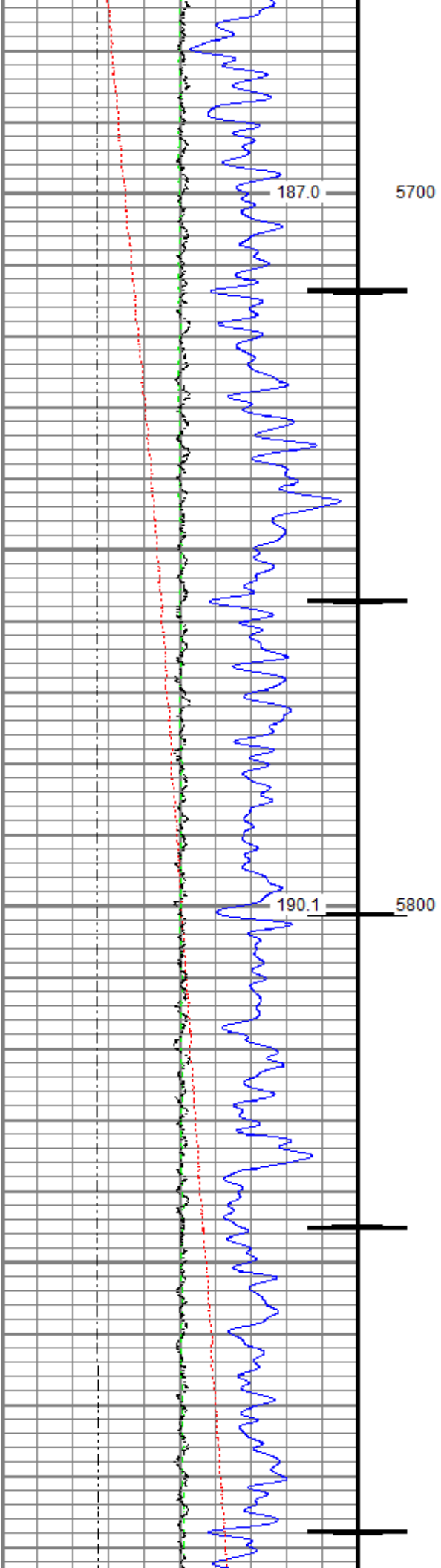


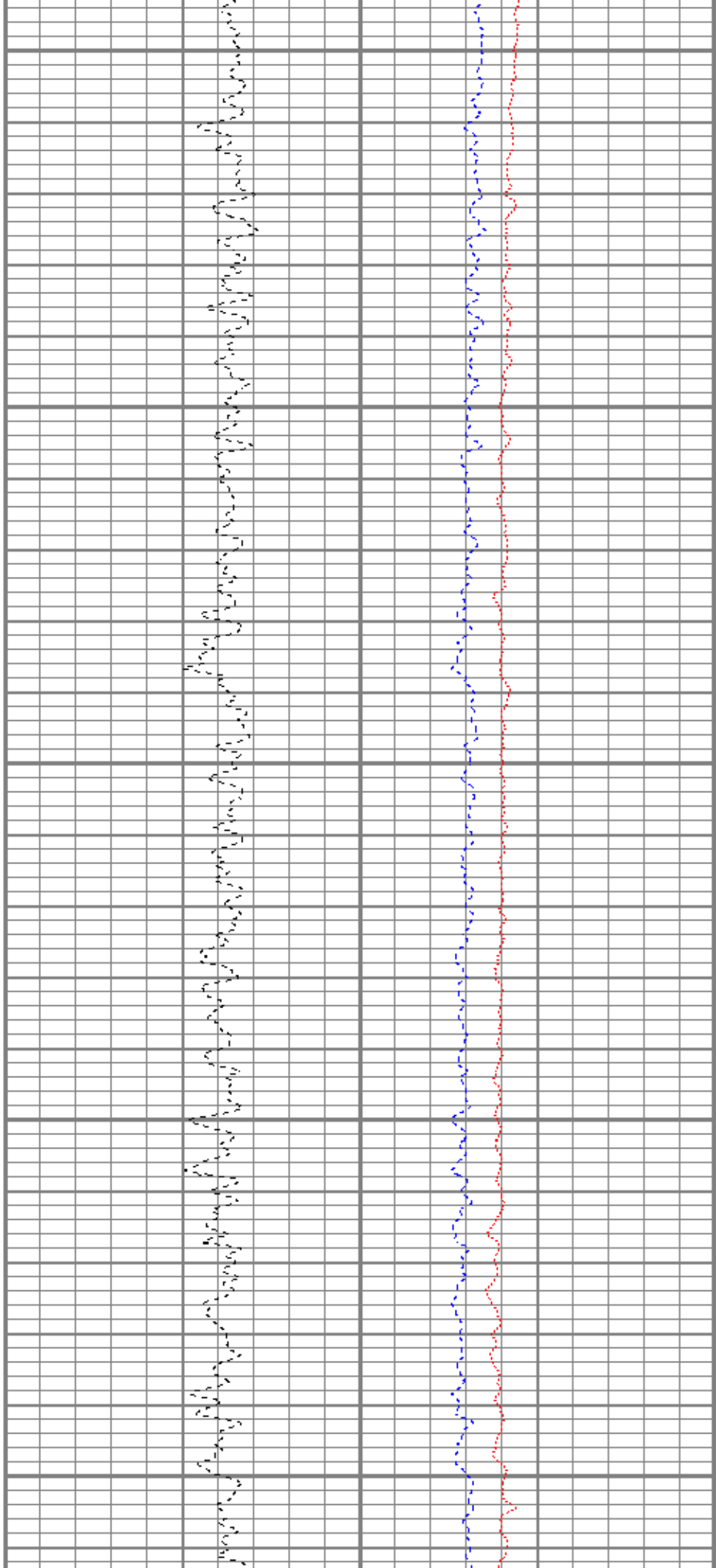
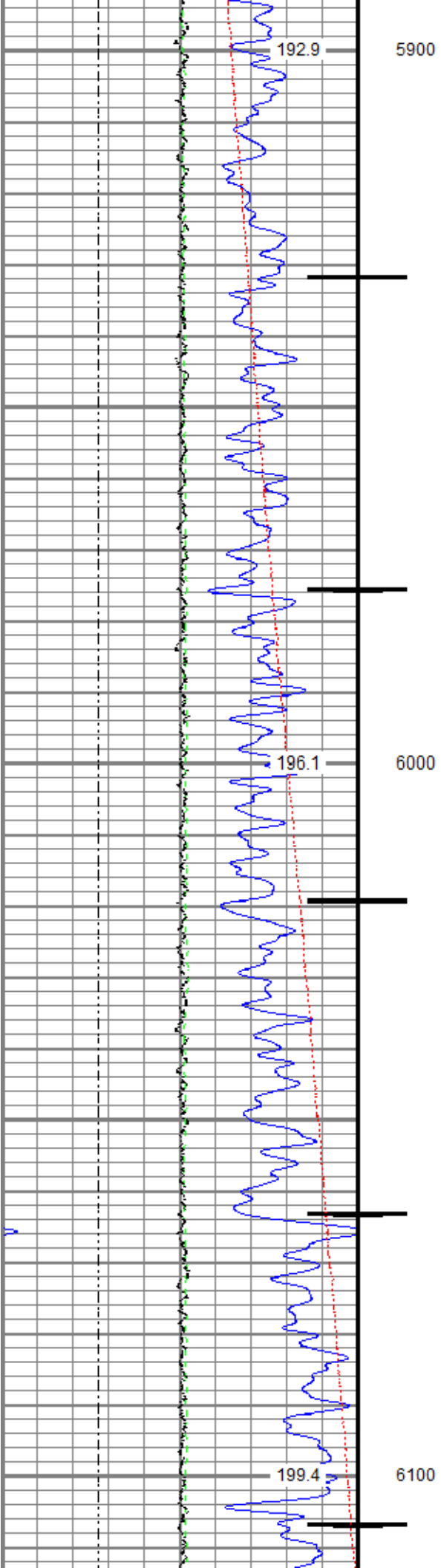


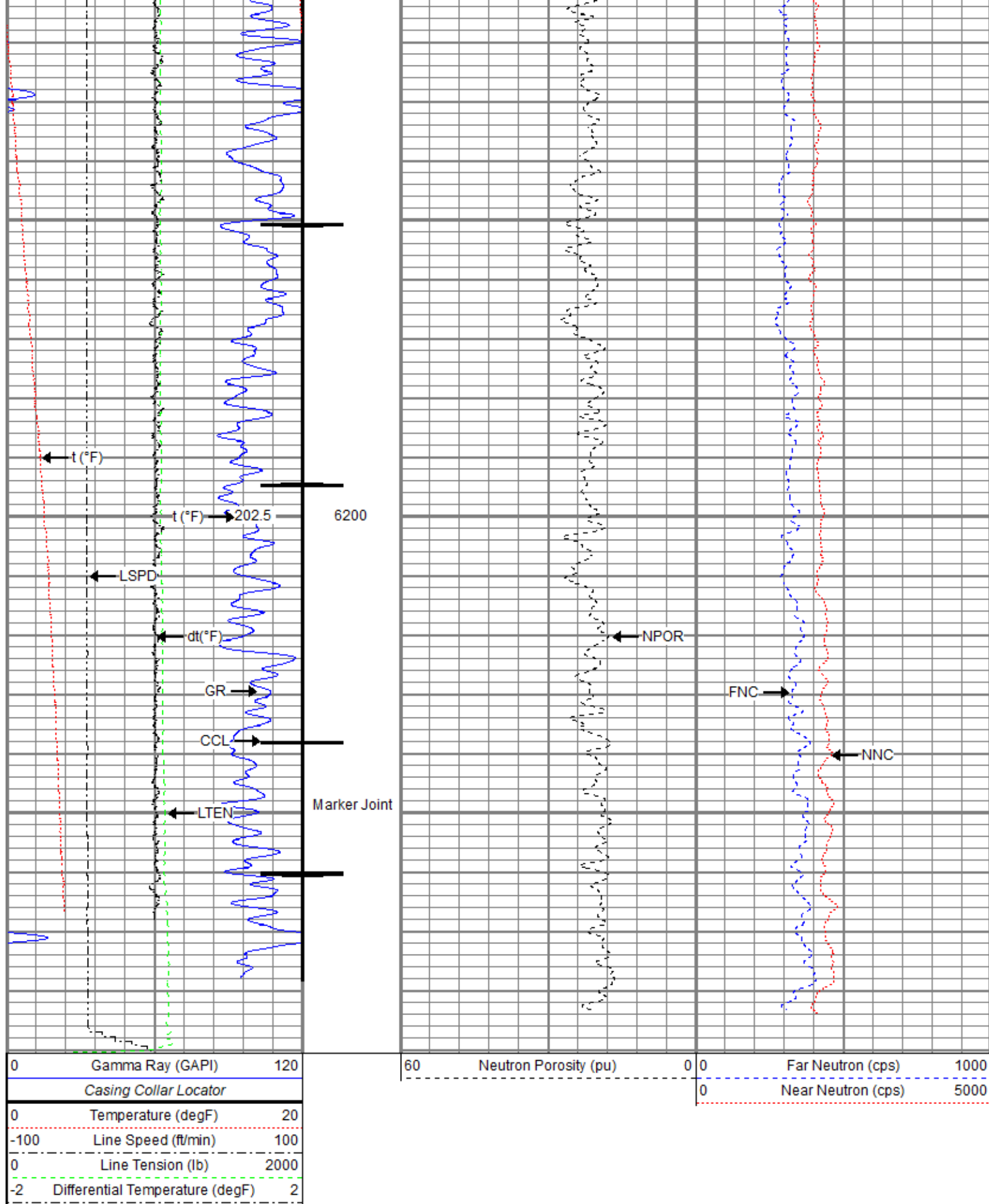








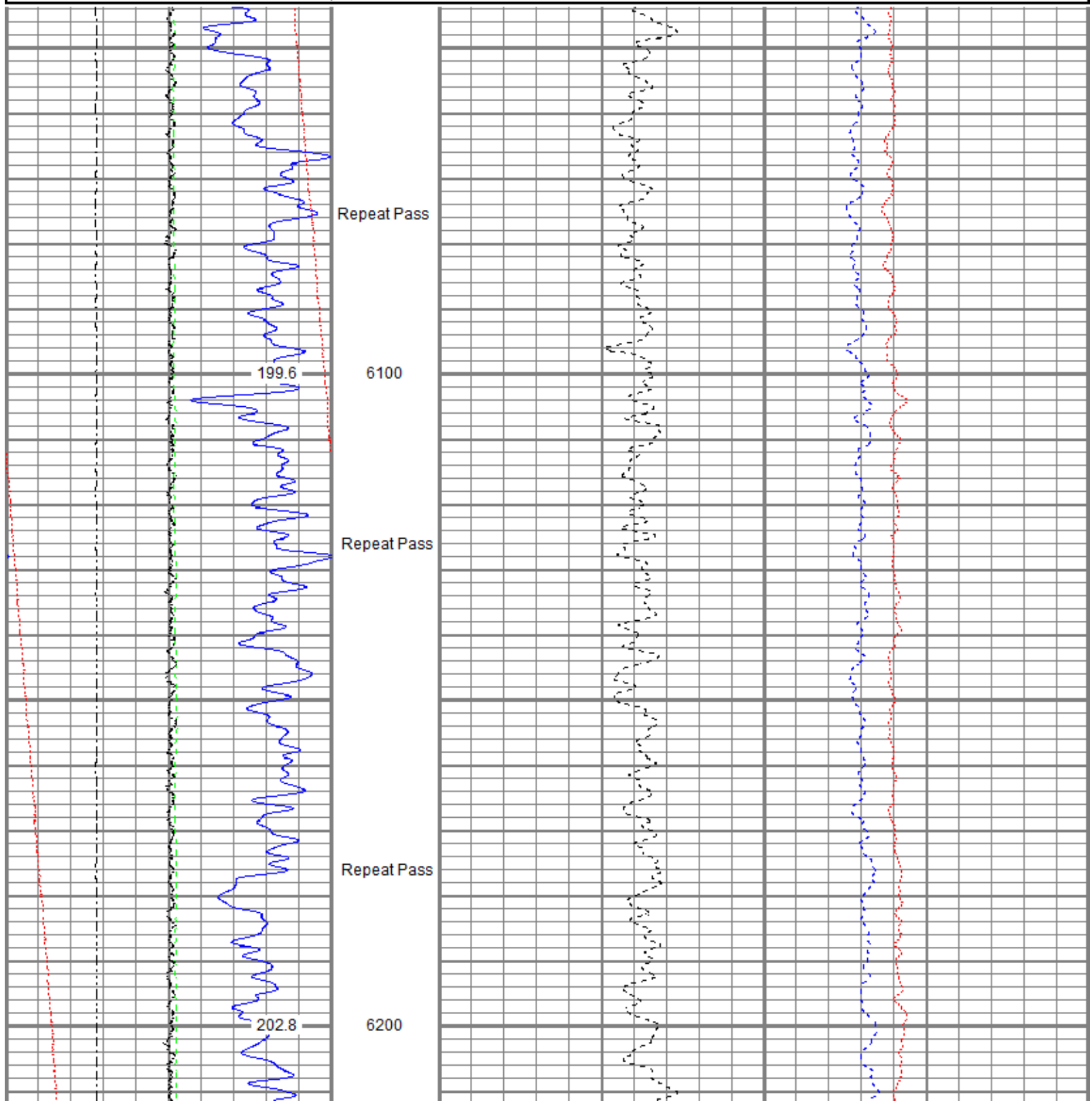


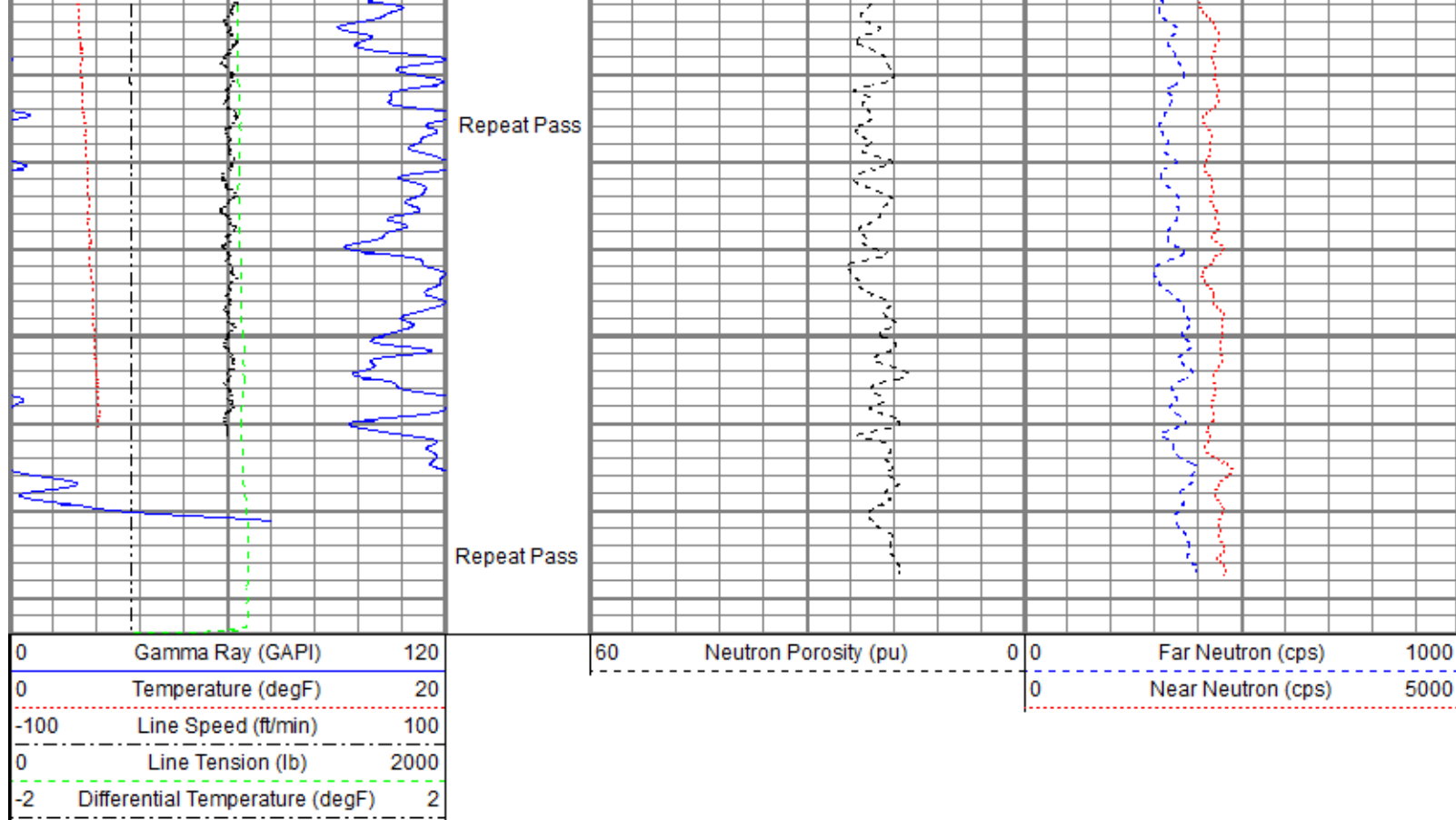



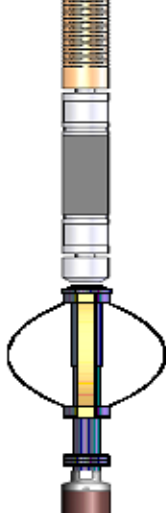
Repeat Pass

Database File 0512345091\_anadarko\_newby state 36n-4hz\_rbl\_cnl\_03-12-18\processed\_0512345091\_anadarko\_newby state 36n-4hz\_rbl  
Dataset Pathname log/pass8  
Presentation Format ros\_cnl\_probe  
Dataset Creation Mon Mar 12 10:18:41 2018  
Charted by Depth in Feet scaled 1:240

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 (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)
TEMP	22.08		Titan CHD-14375 GO	1.03	1.44	3.60
			Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
			Probe Radii-2750 RBT (FW1308-091)	9.39	2.75	105.00
			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
WVFS8	19.84					
WVFS7	19.84					
WVFS6	19.84					
WVFS5	19.84					
WVFS4	19.84					
WVFS3	19.84					
WVFS2	19.84					
WVFS1	19.84					
WVFCAL	19.84					
WVF3FT	19.84					
WVF5FT	18.84		Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			

CCL\$2	11.83						
CCL\$1	11.83						
GR	10.50						
				Probe GR-CCL-2750 6PB (FW1304-132) Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT	4.80	2.75	55.00
CNLSC	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						
				Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: PROCESSED_0512345091_Anadarko_Newby State 36N-4HZ_RBL_CNL_03-12-18.db: field/well/log/pass10.3 Total length: 28.90 ft Total weight: 283.60 lb O.D.: 2.75 in							

Calibration Report				
Database File	C:\ProgramData\Warrior\Data\0512345091_Anadarko_Newby State 36N-4HZ_RBL_CNL_03-12-18\PROCESSED_0512345091			
Dataset Pathname	log/pass10.3			
Dataset Creation	Mon Mar 12 13:09:27 2018			
Compensated Neutron Calibration Report				
Type / Serial:		2750 BL / FW1308-020_A1483		
Source / Verifier:		/		
Temperature:				
SHOP CALIBRATION		Wed Oct 11 09:42:11 2017		
	Cal Tube	Units		
Tank Ratio		SS/LS		
Tank Porosity		pu		
LS Detector		cps		
SS Detector		cps		
Tool Ratio		SS/LS		
Tool Porosity		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: FW1308-091  
Tool Model: 2750 RBT

Calibration Casing Diameter: 5.500 in  
Calibration Depth: 72.493 ft

#### Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.507	0.800	71.921	140.488	0.716
CAL	0.004	0.604				
5'	-0.006	0.471	0.800	71.921	149.187	1.714
SUM						
S1	0.001	0.473	0.000	100.000	211.647	-0.127
S2	0.001	0.497	0.000	100.000	201.288	-0.120
S3	-0.002	0.527	0.000	100.000	189.085	0.292
S4	0.001	0.551	0.000	100.000	181.665	-0.118
S5	0.001	0.560	0.000	100.000	178.650	-0.111
S6	0.001	0.528	0.000	100.000	189.433	-0.104
S7	0.001	0.490	0.000	100.000	204.446	-0.112
S8	0.001	0.479	0.000	100.000	208.968	-0.120

#### Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.004	0.604	1.000	0.000


#### Air Zero Calibration, performed Mon Mar 12 09:05:11 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: FW1308-091  
Tool Model: 2750 RBT  
Performed: Sun Nov 12 13:50:54 2017

	Reference	Reading
Low Reference:	100.00 degF	104.72 degF
High Reference:	350.00 degF	392.24 degF
Gain:	0.87	
Offset:	8.94	
Delta Spacing	1	

	<b>Company</b>	Kerr-McGee Oil & Gas Onshore, L.P.
	<b>Well</b>	Newby State 36N-4HZ
	<b>Field</b>	Wattenberg
	<b>County</b>	Weld
	<b>State</b>	Colorado