



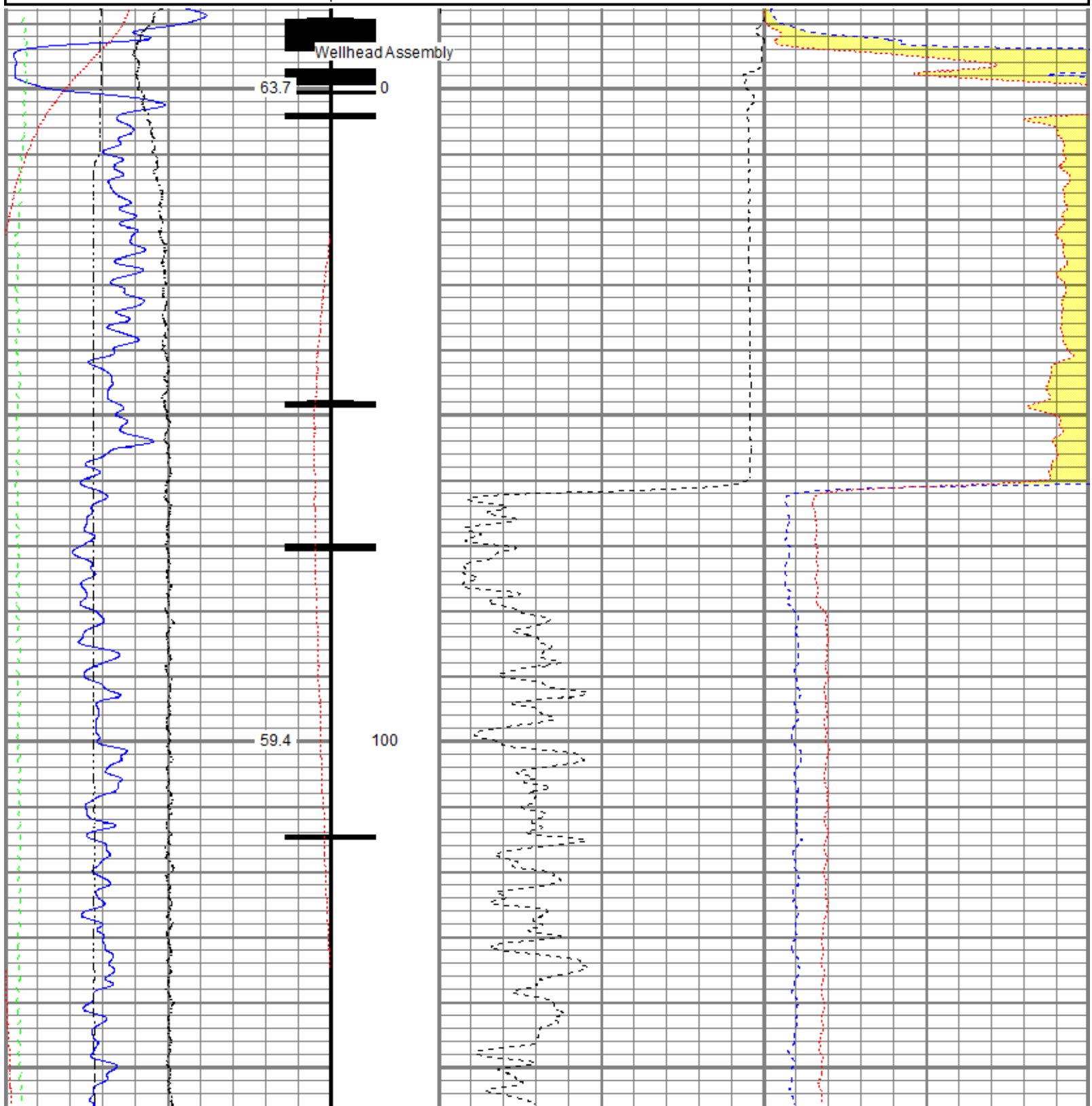
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Casing Tally reported Marker Joint at 7804 FT Adjusted +9 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 8594 FT with no debris Recorded with 0 PSI Surface Induced Pressure Logging tools were clean and free of any debris upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

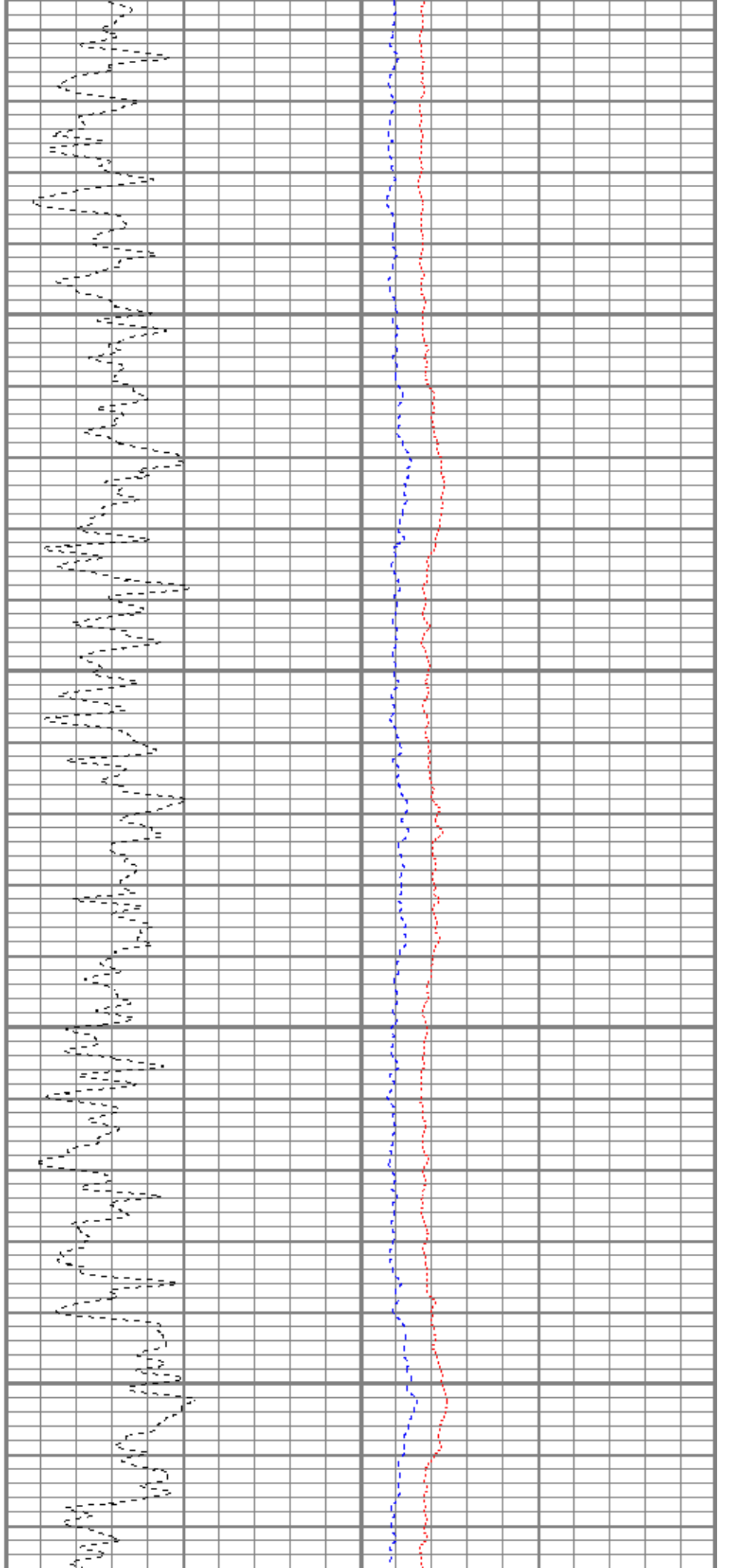
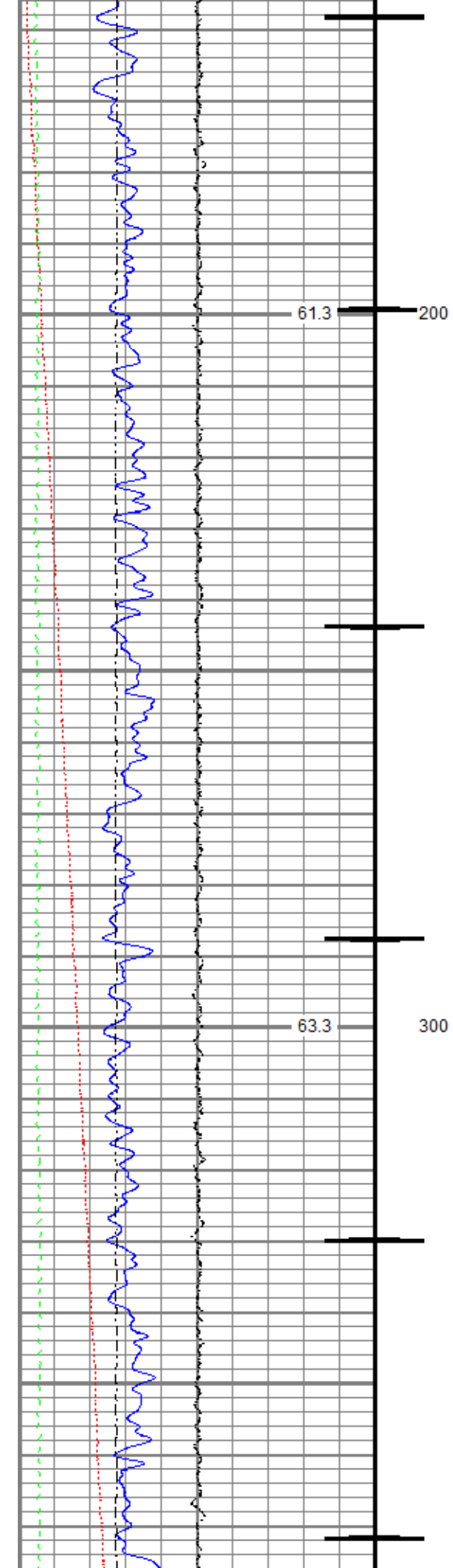


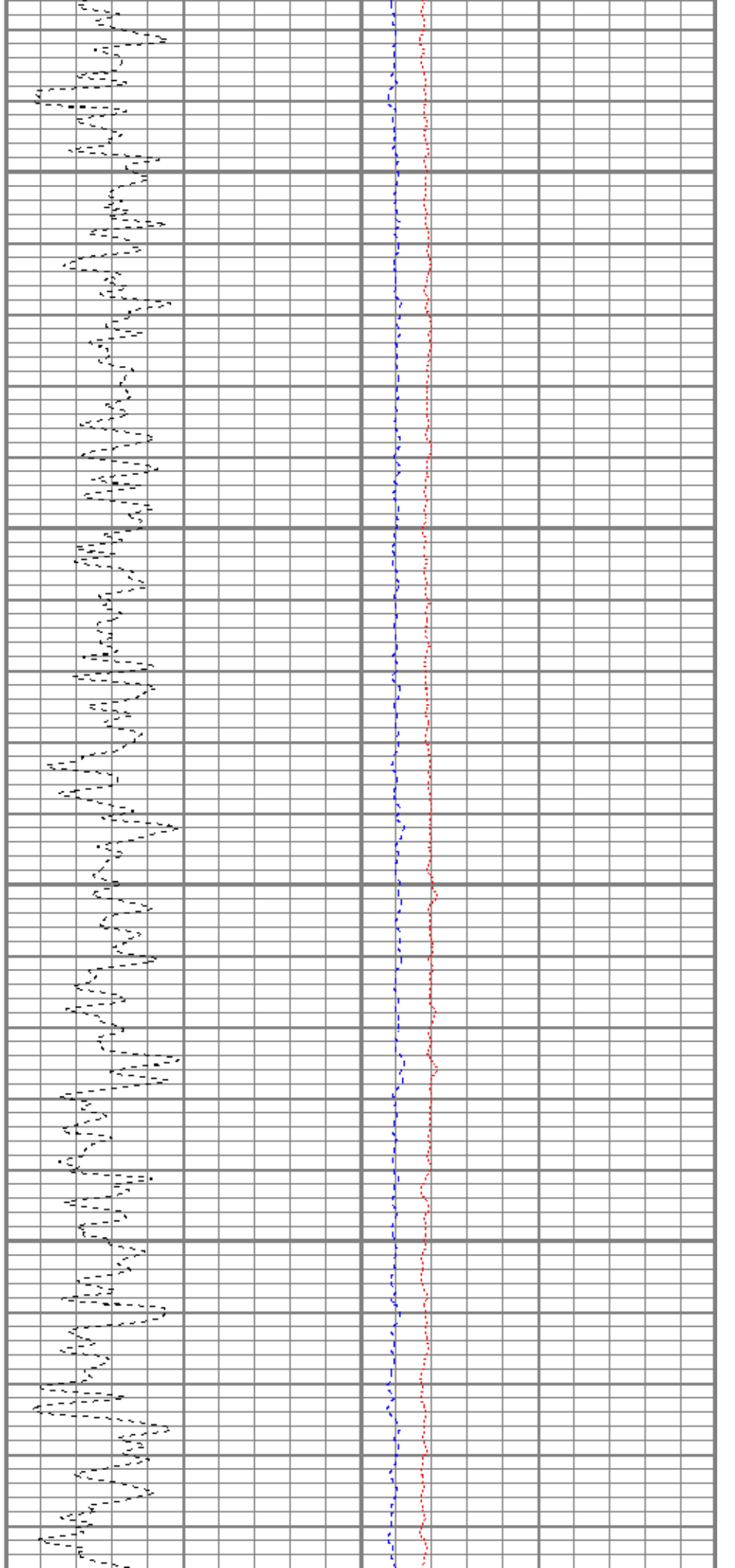
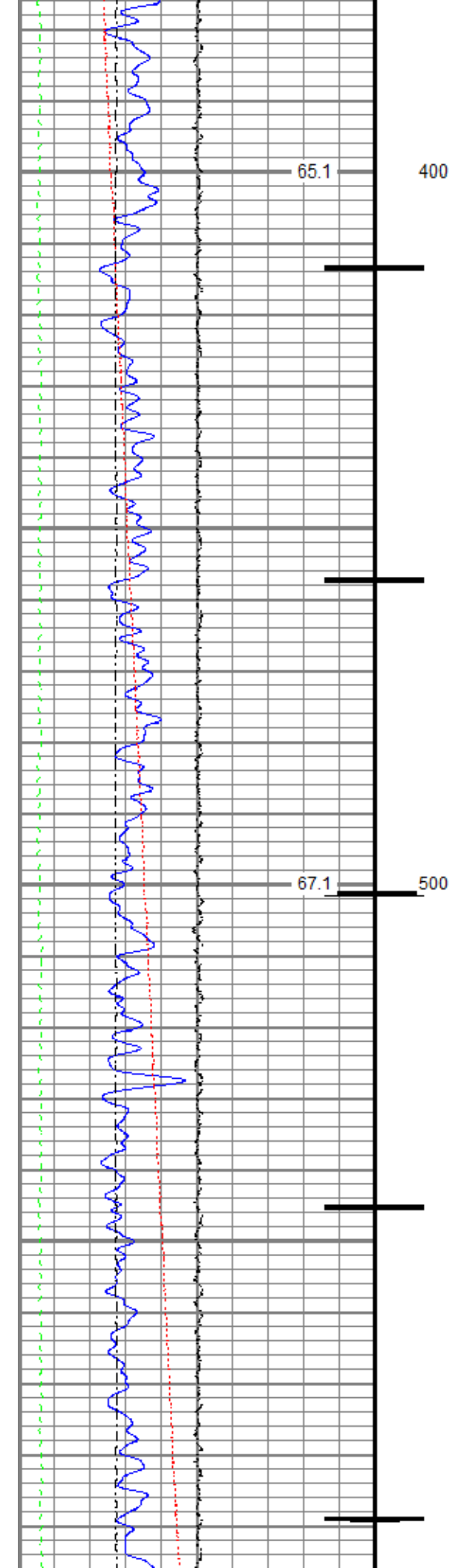
Recorded With 0 PSI Surface Induced Pressure

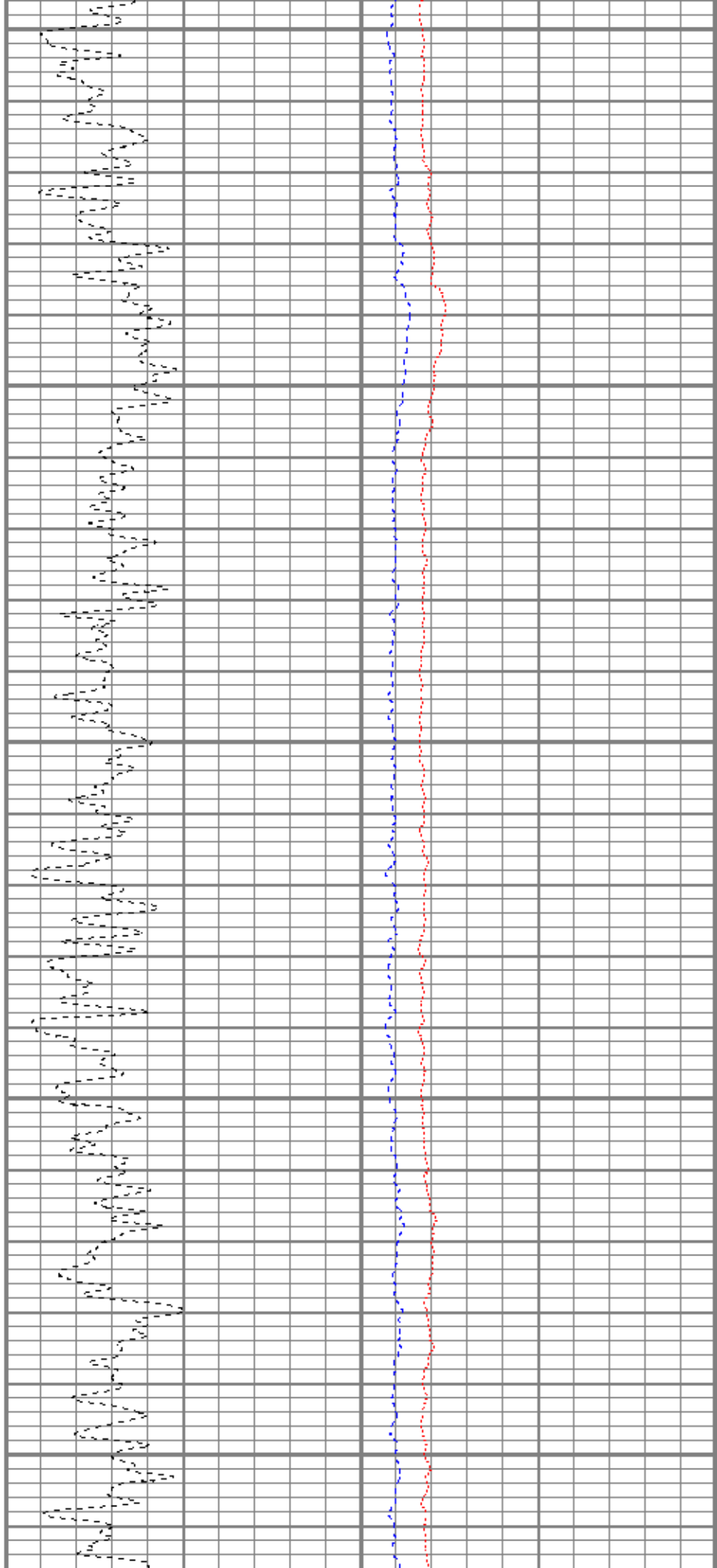
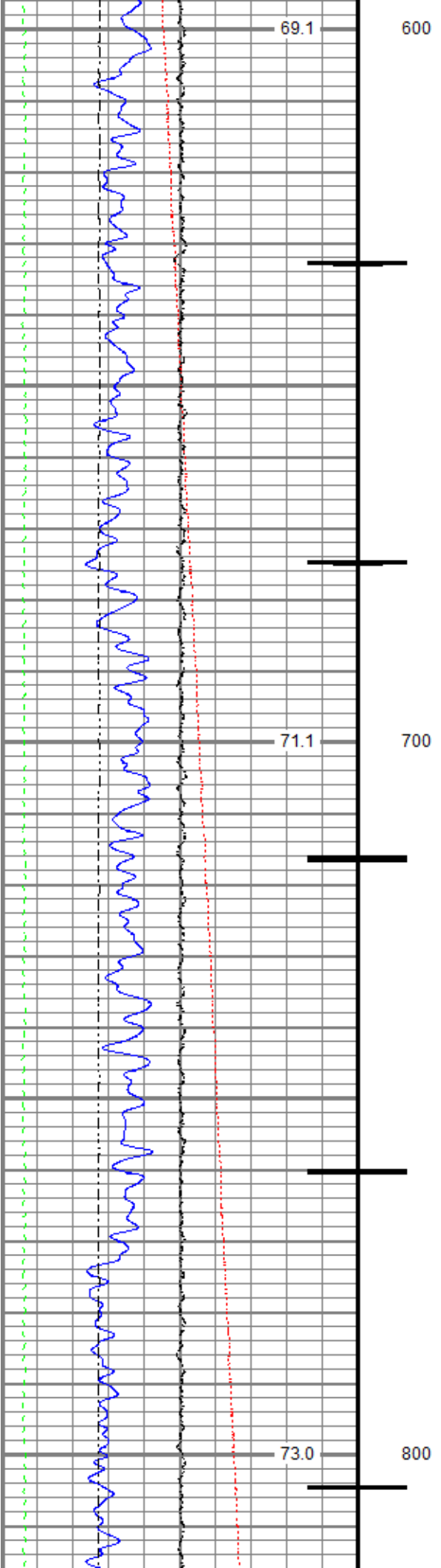
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Presentation Format	ros_cnl_probe
Dataset Creation	Mon Aug 12 14:03:52 2019
Charted by	Depth in Feet scaled 1:240

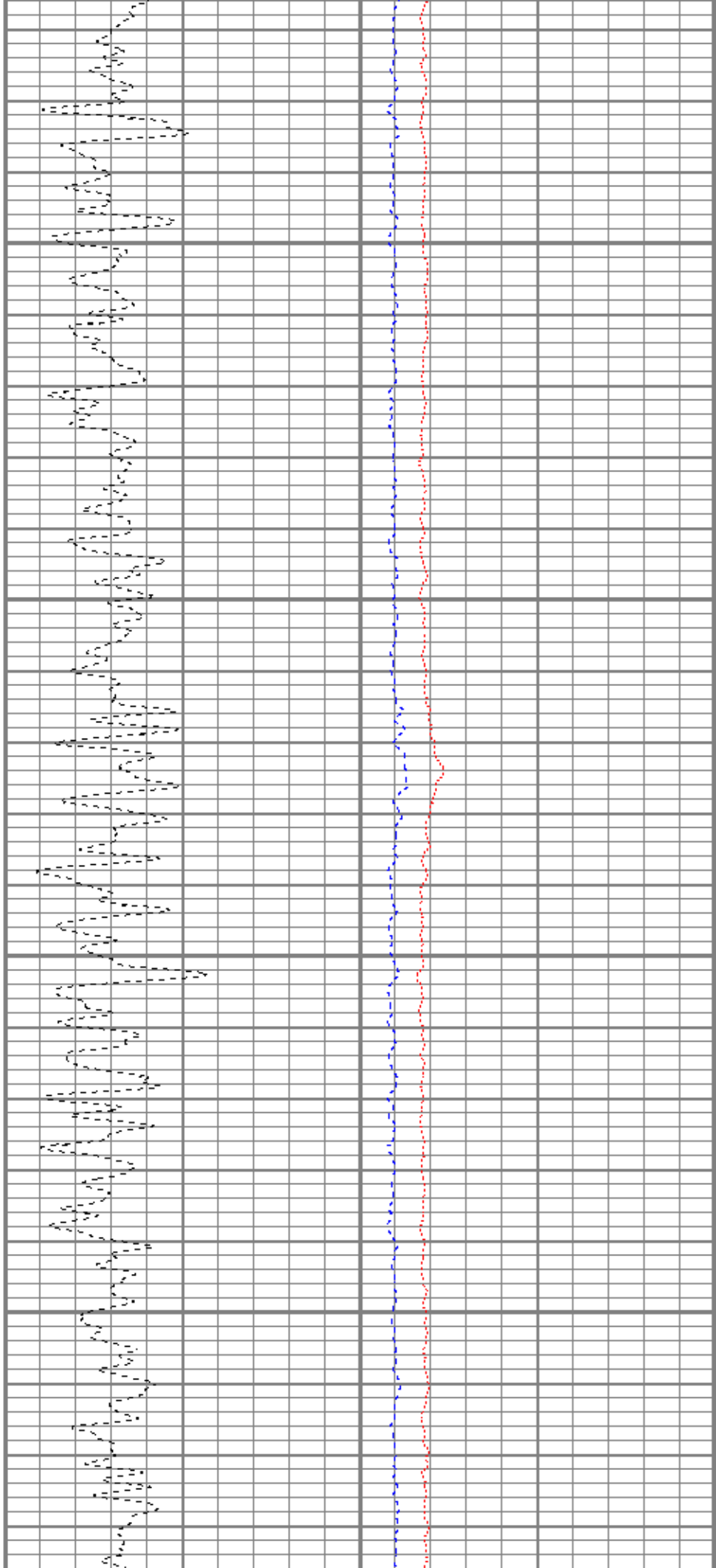
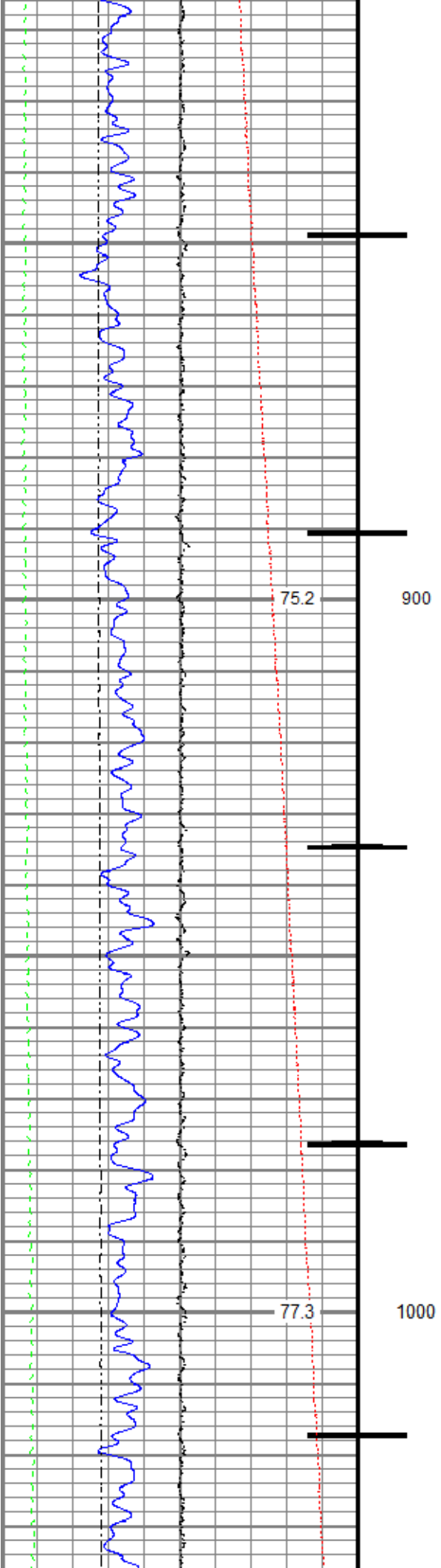
0	Gamma Ray (GAPI)	120	60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
Casing Collar Locator						0	Near Neutron (cps)	5000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

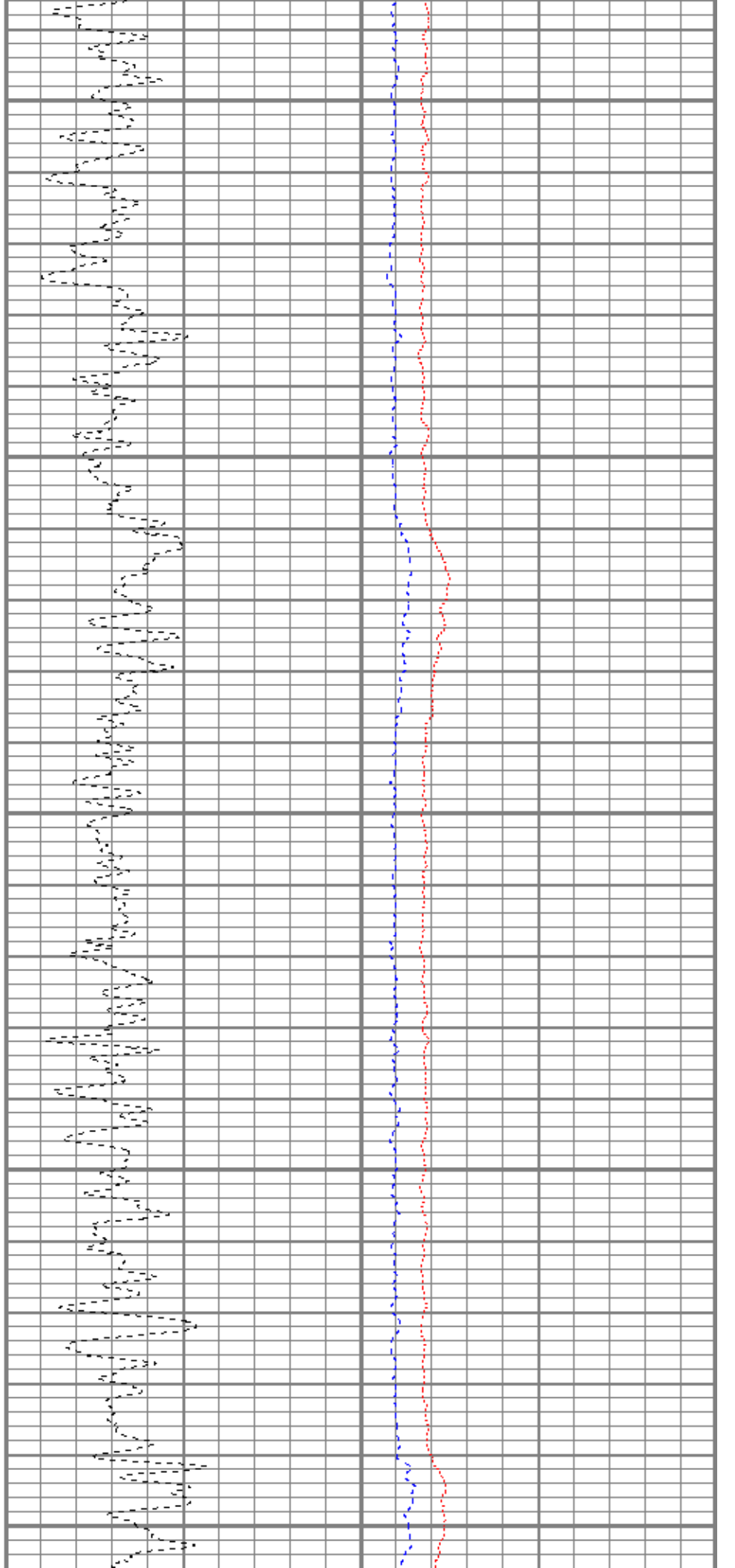
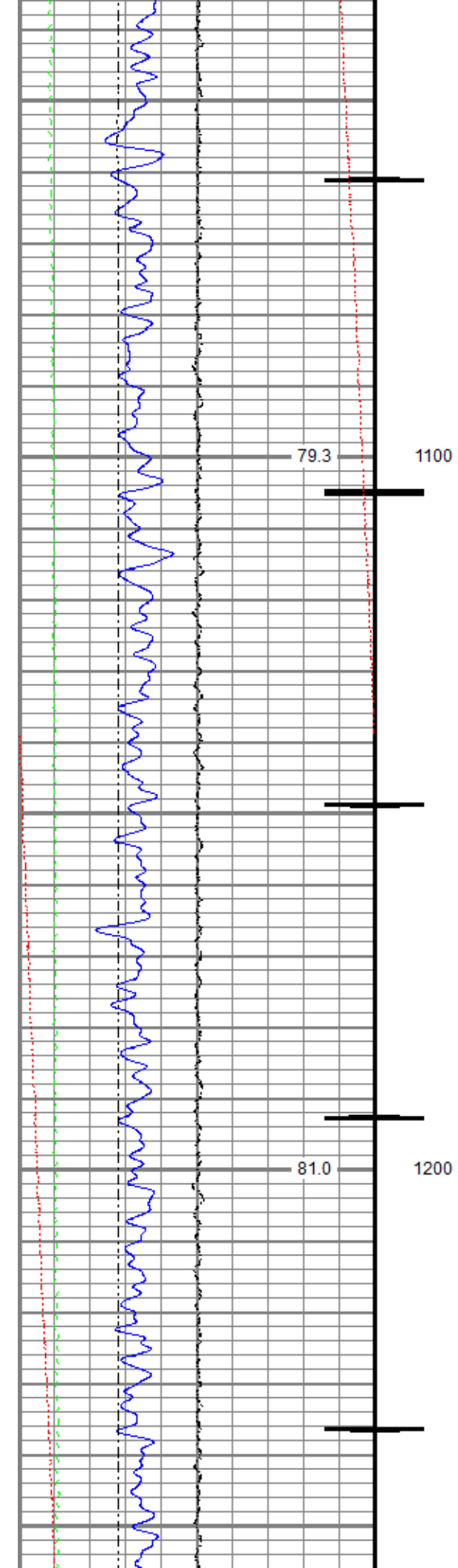


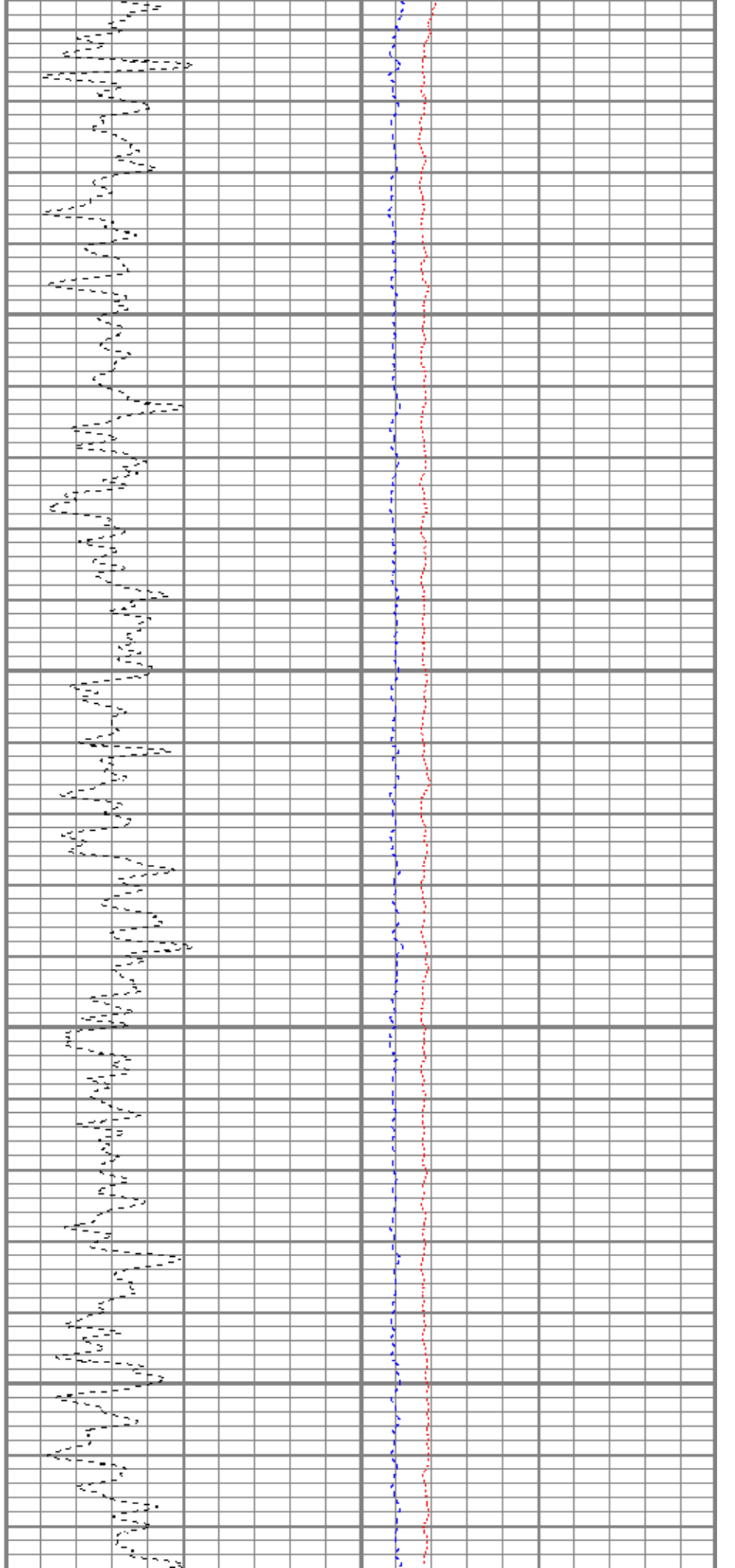
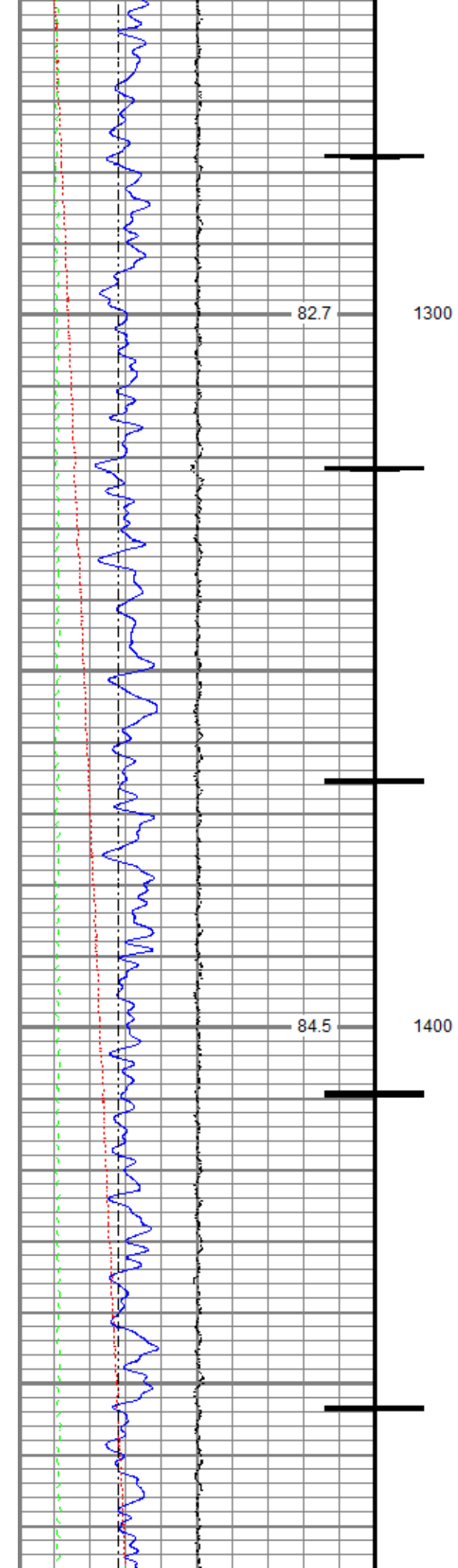


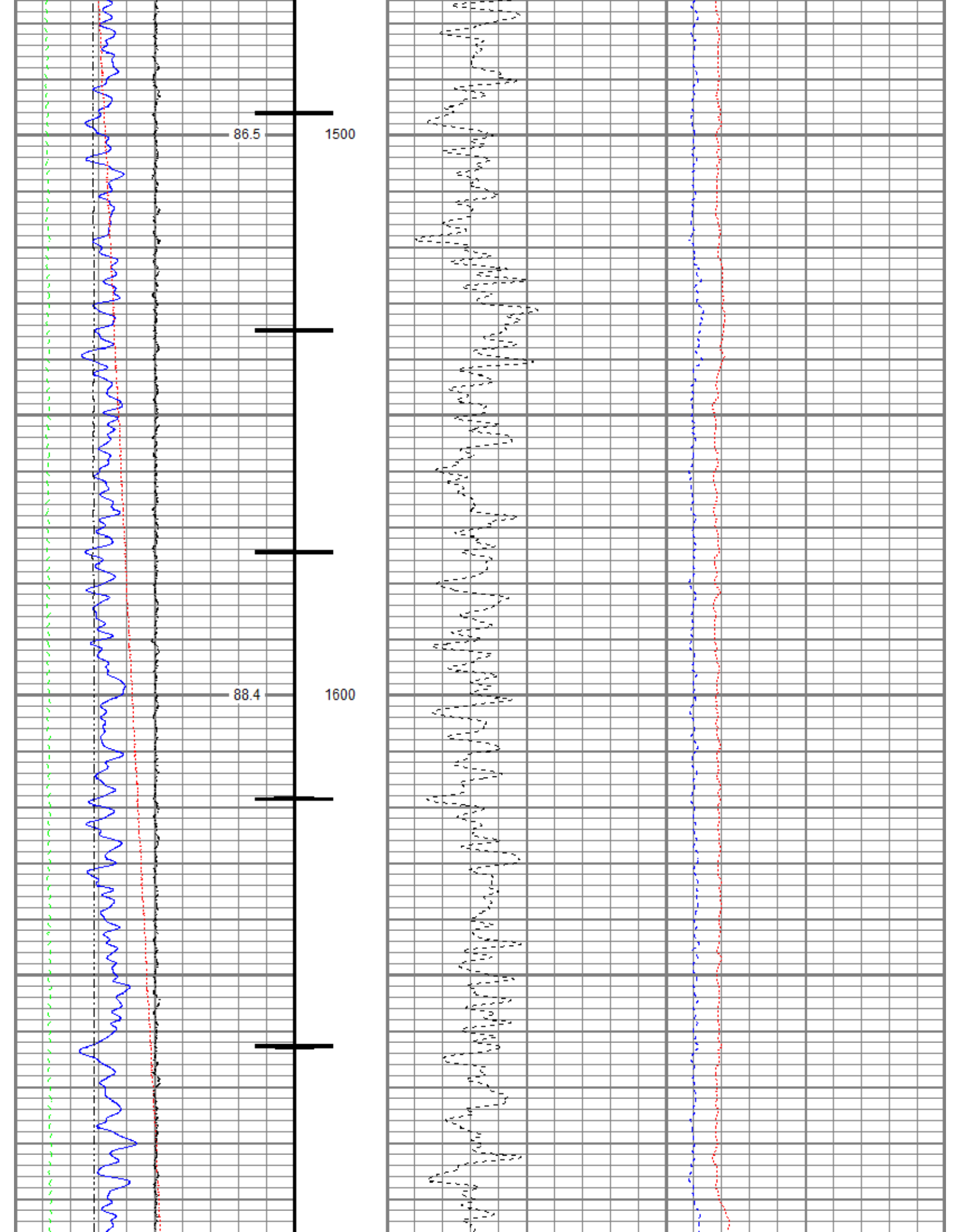


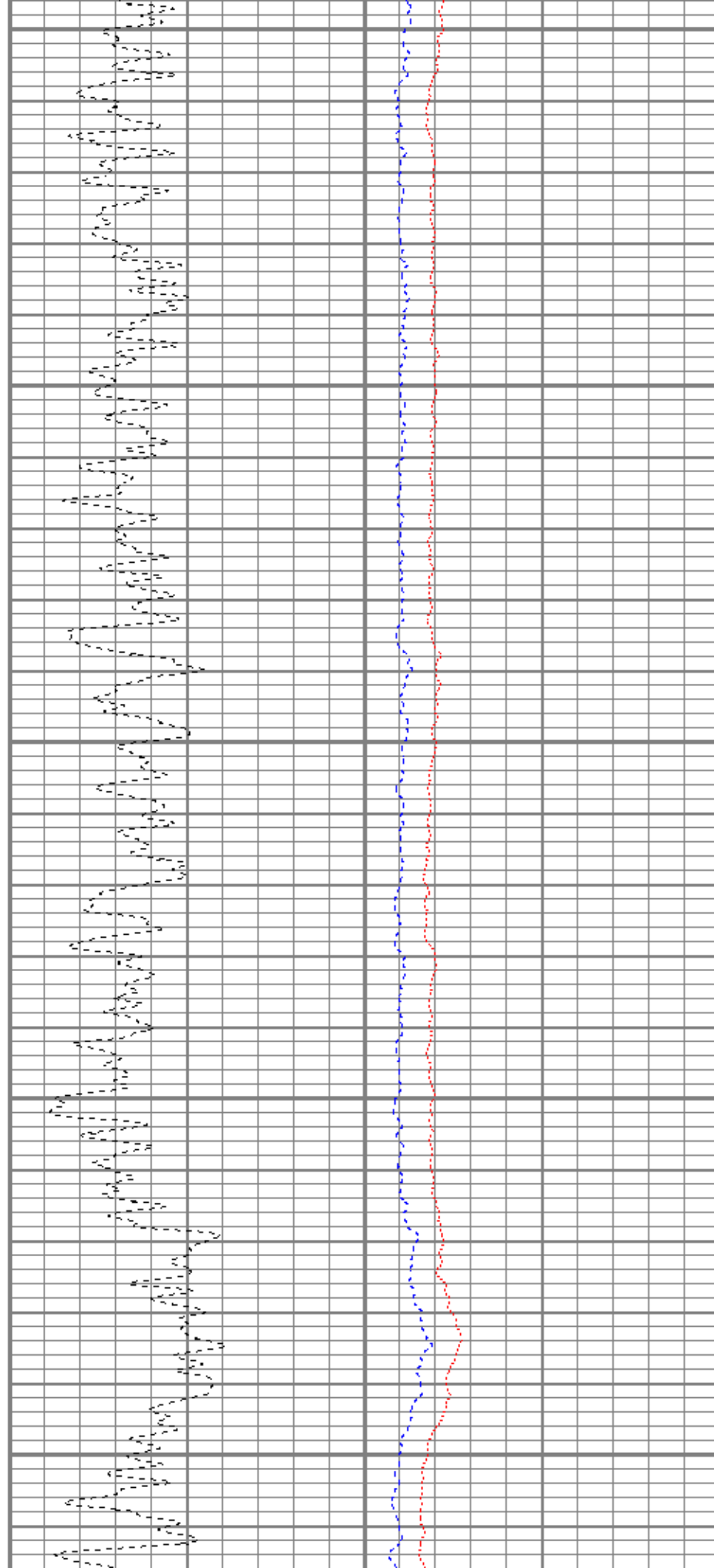
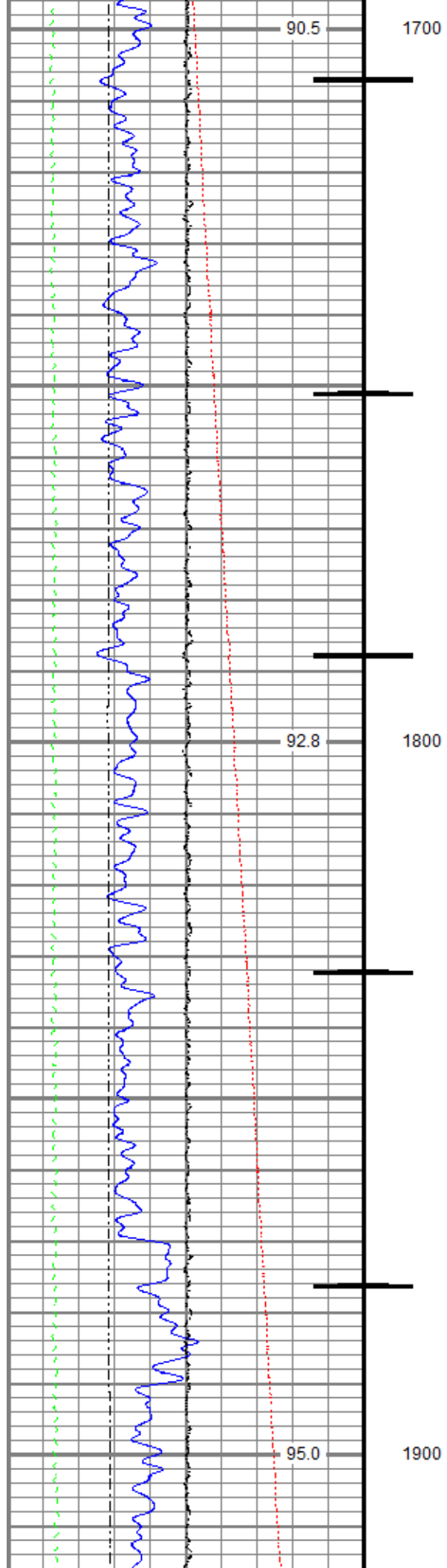


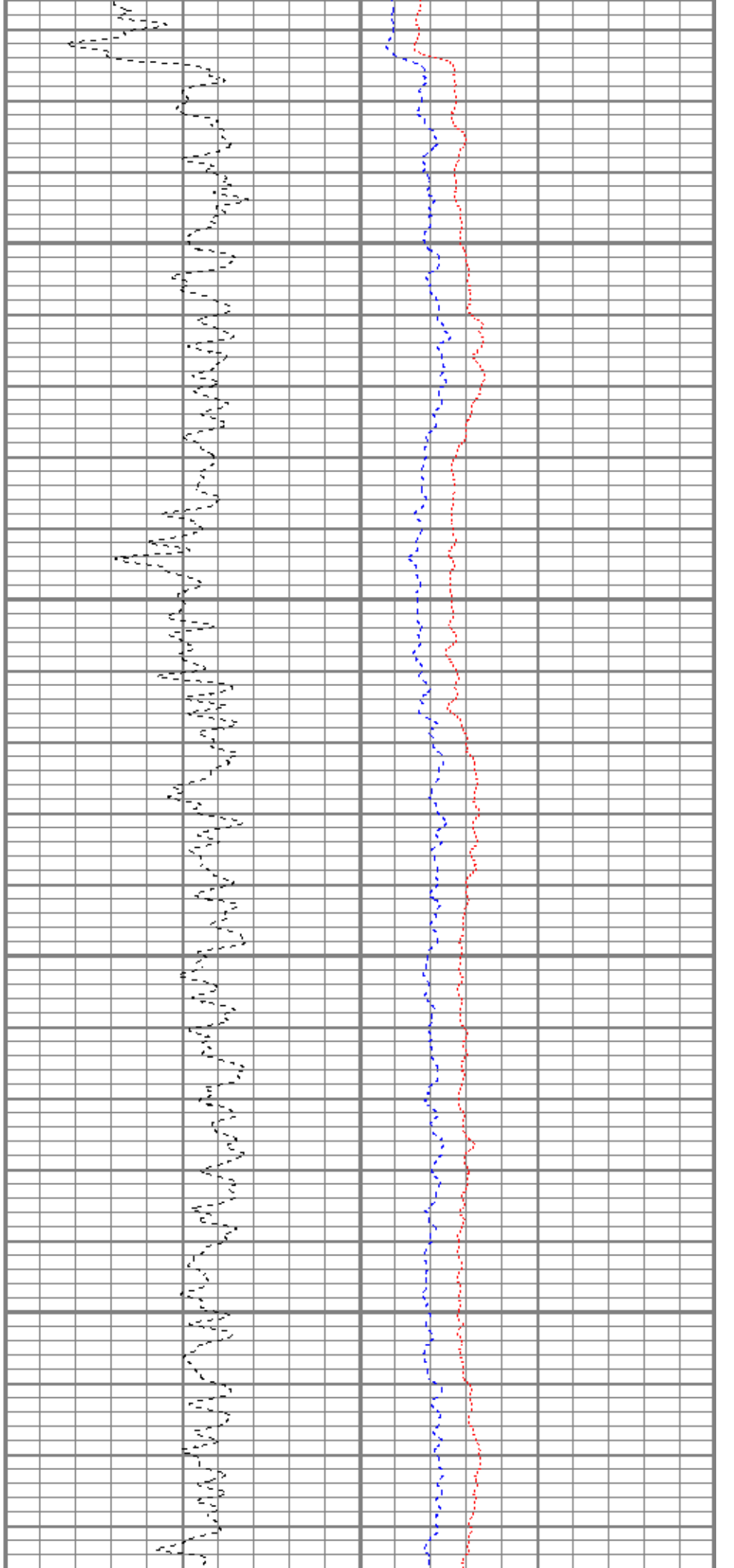
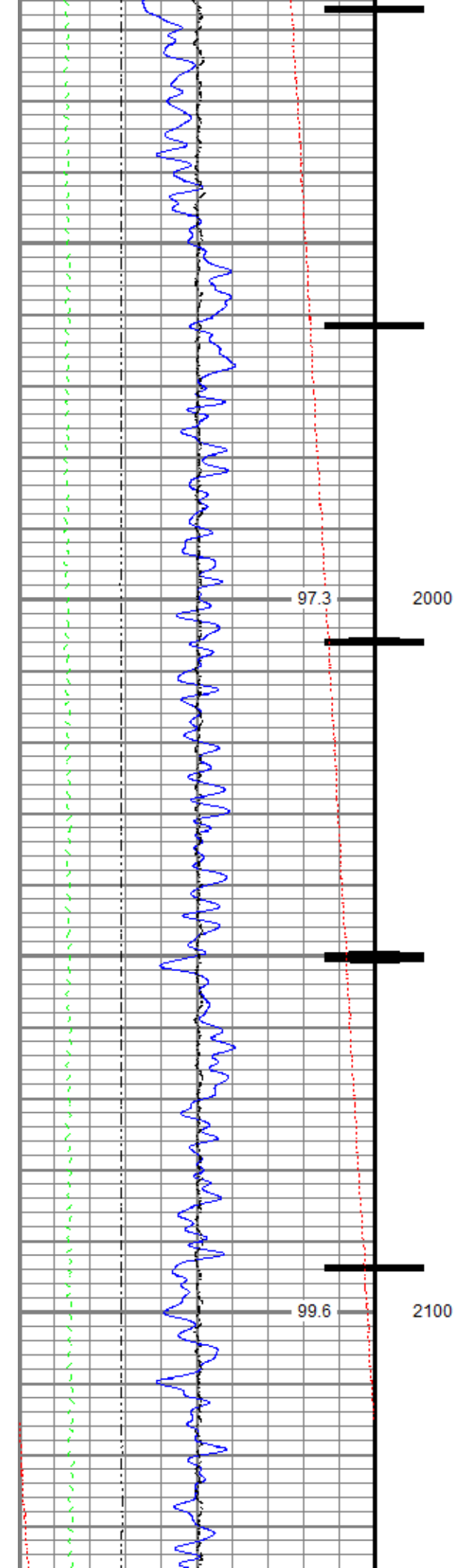


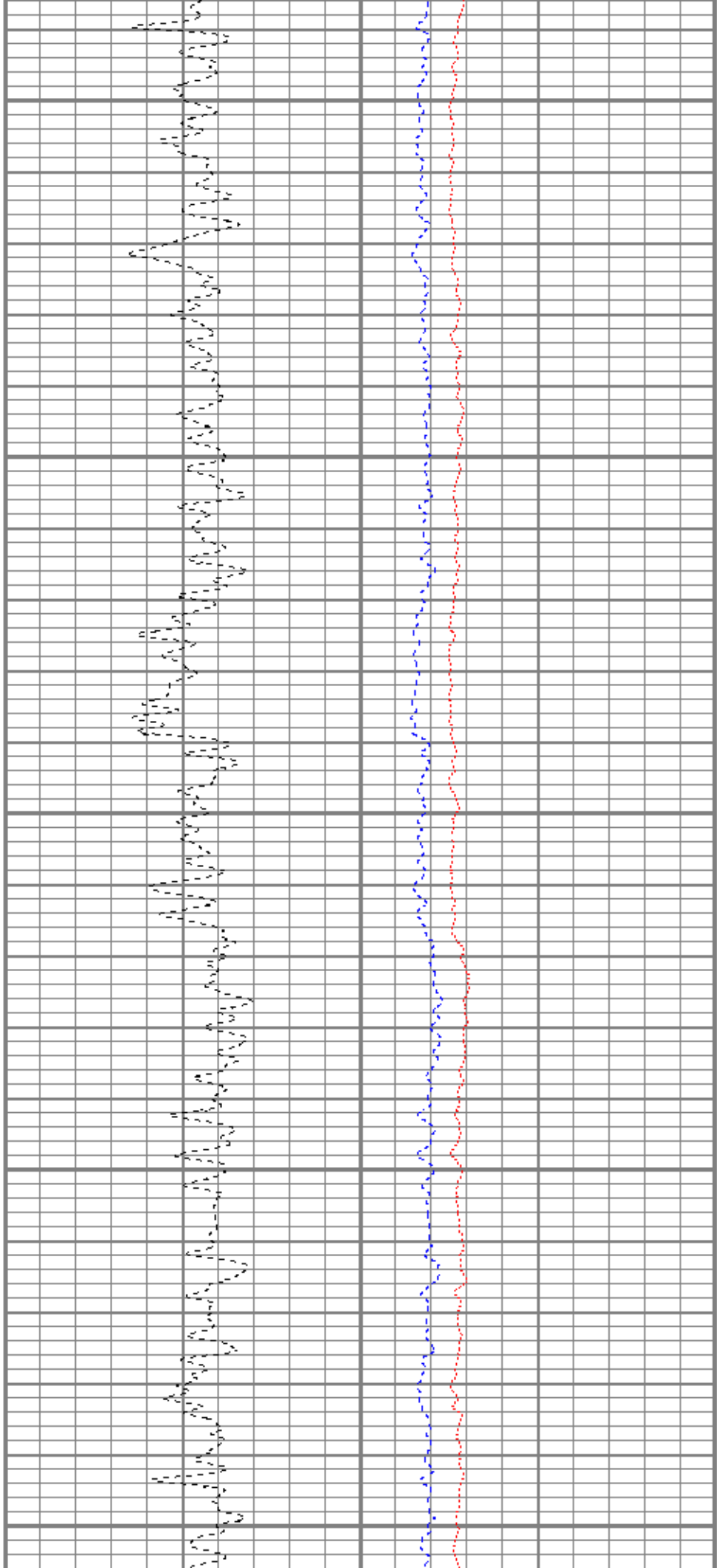
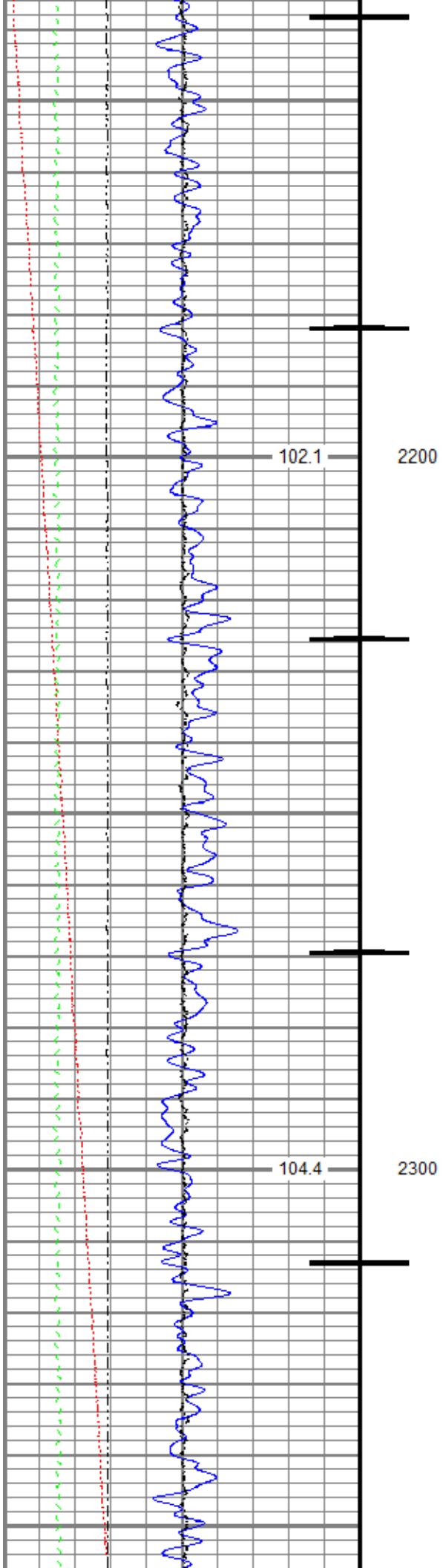


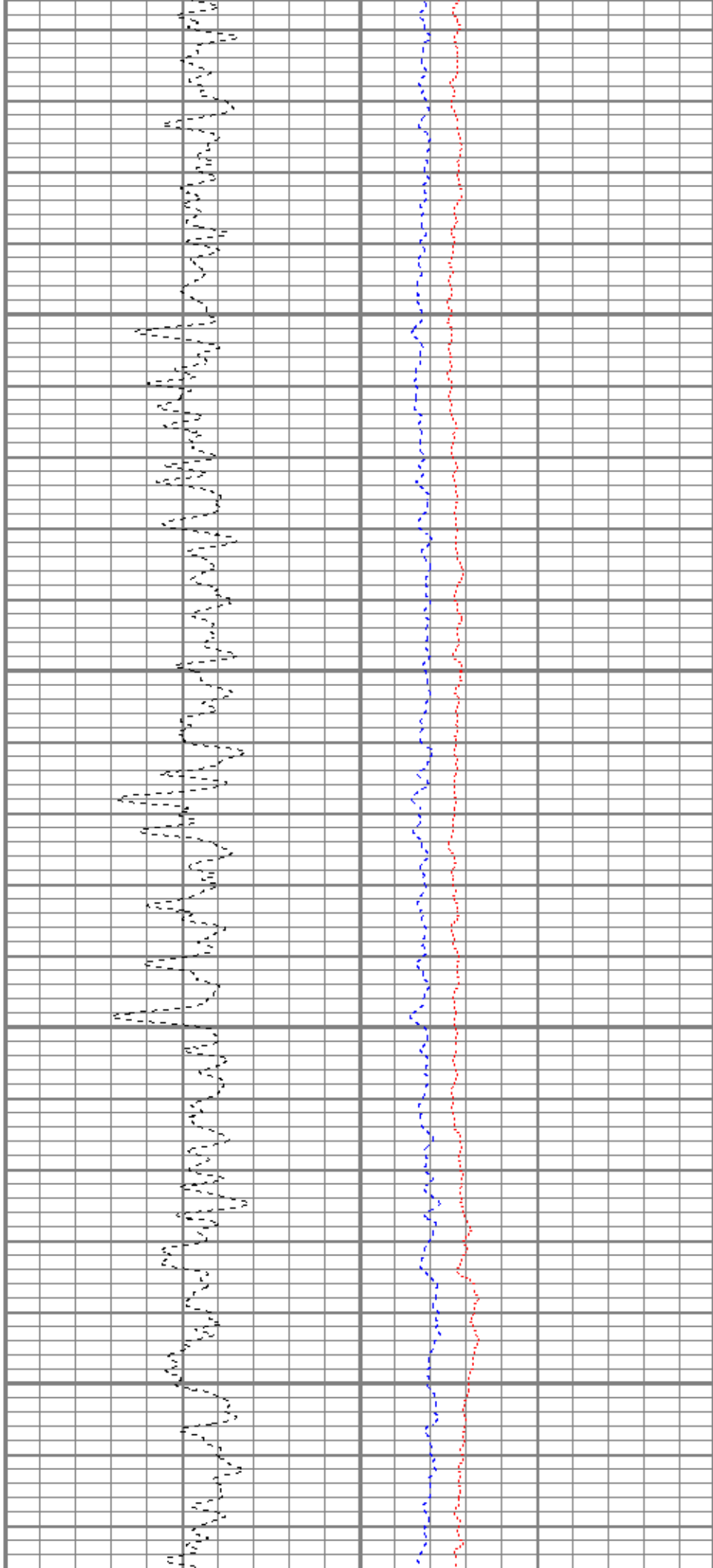
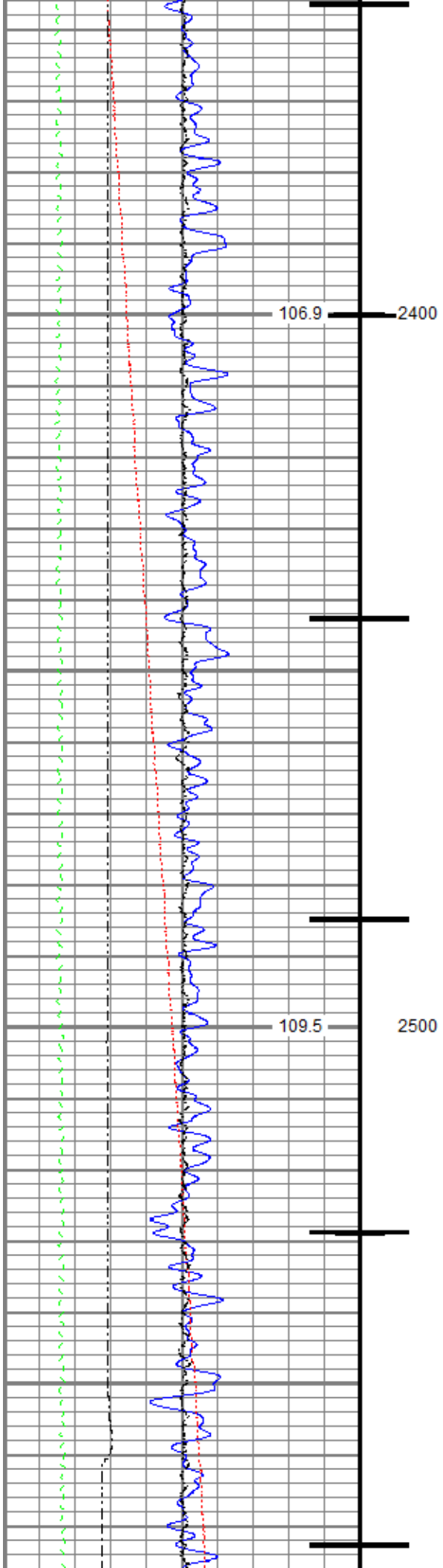


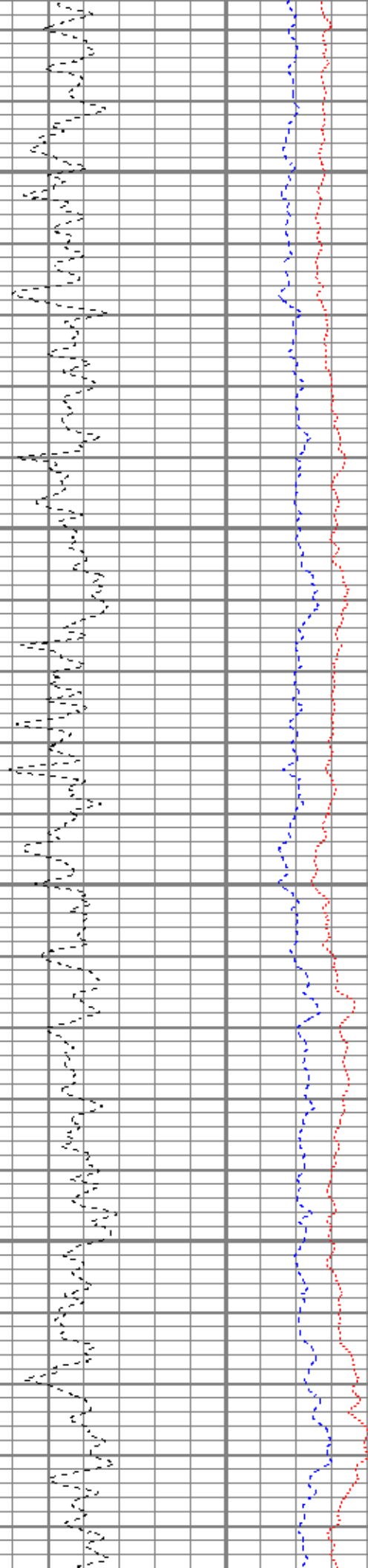
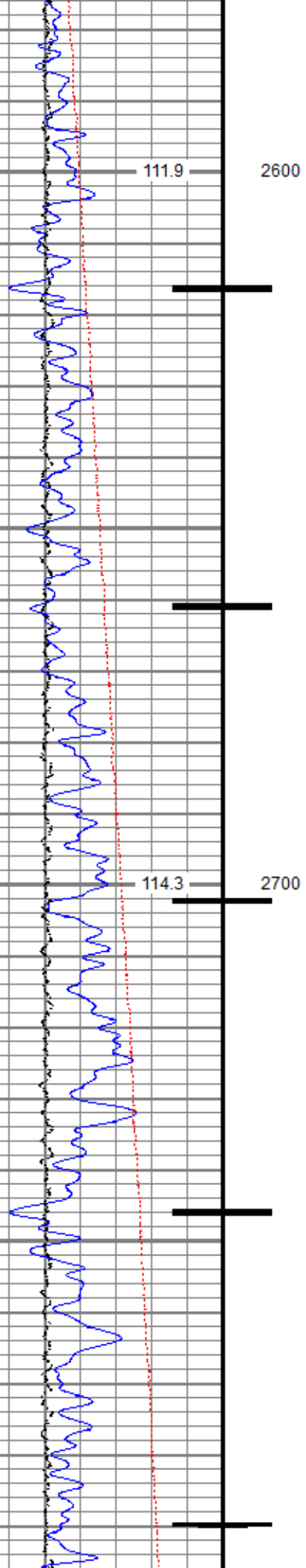


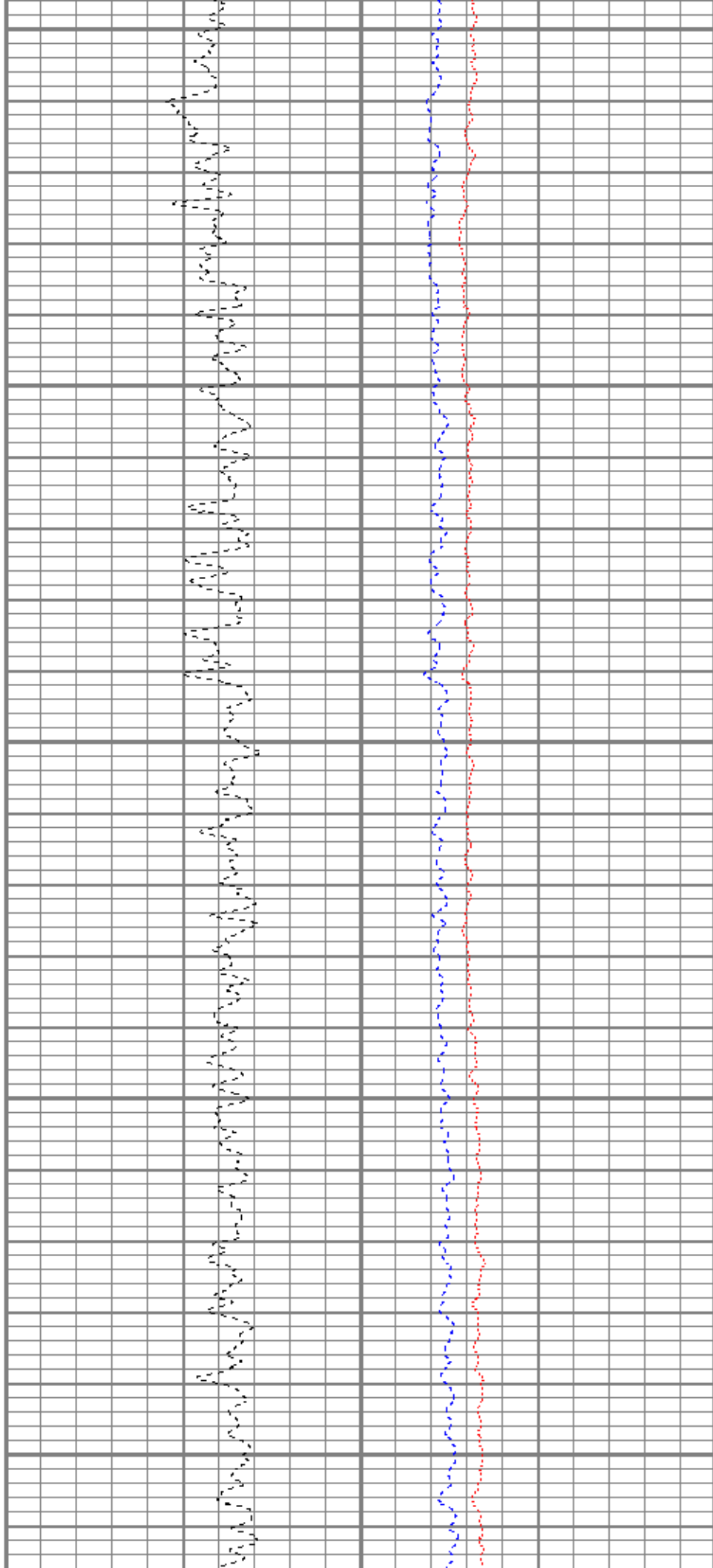
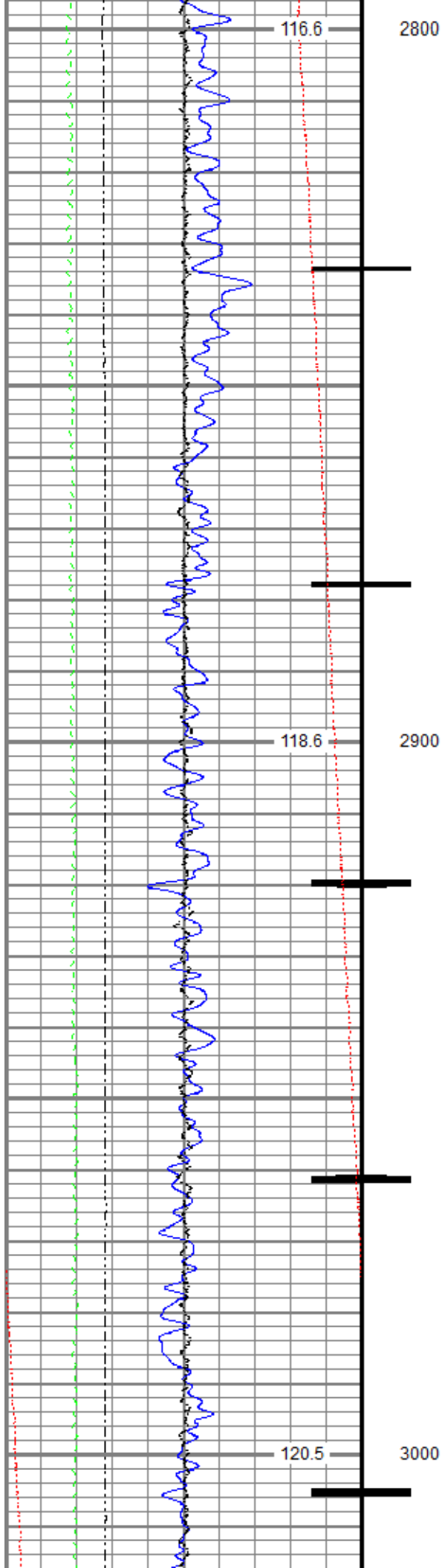


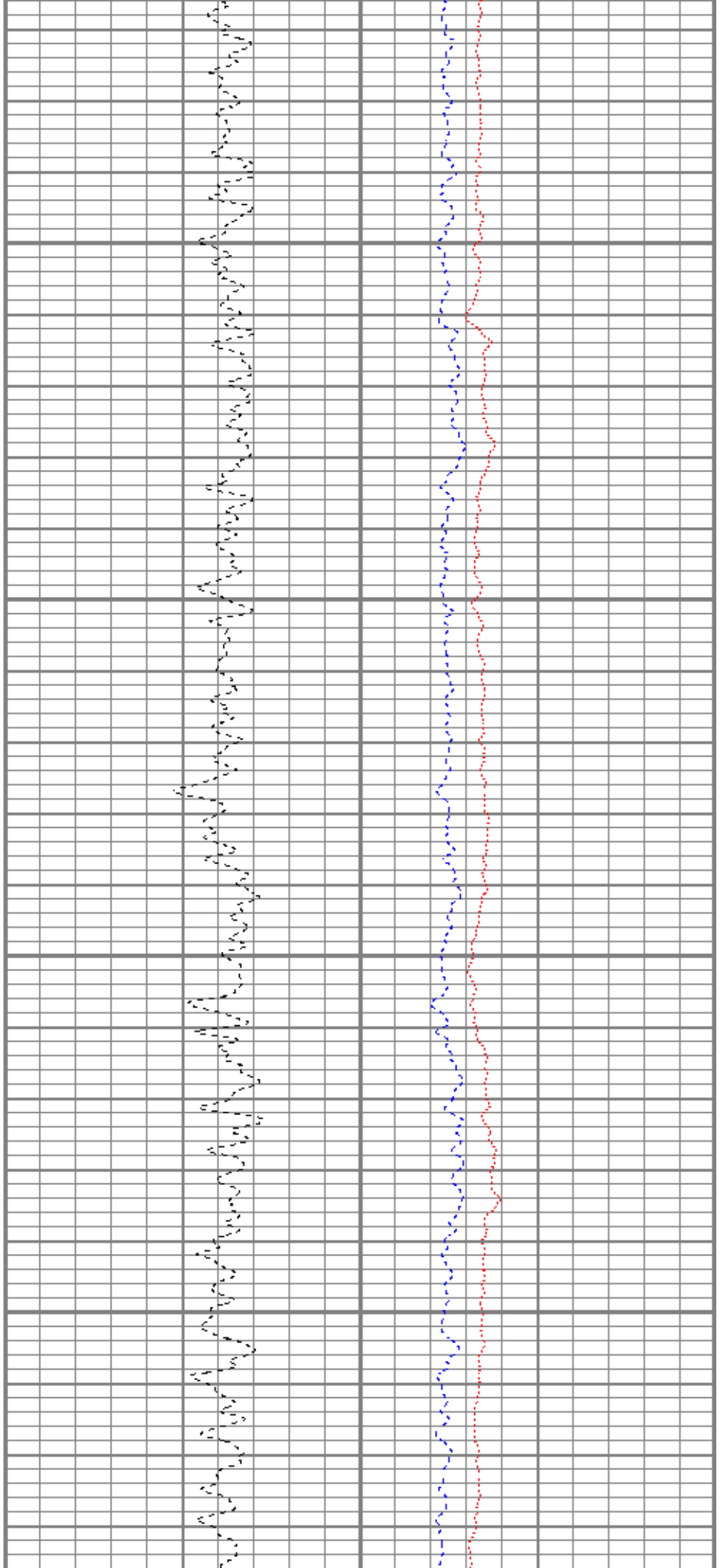
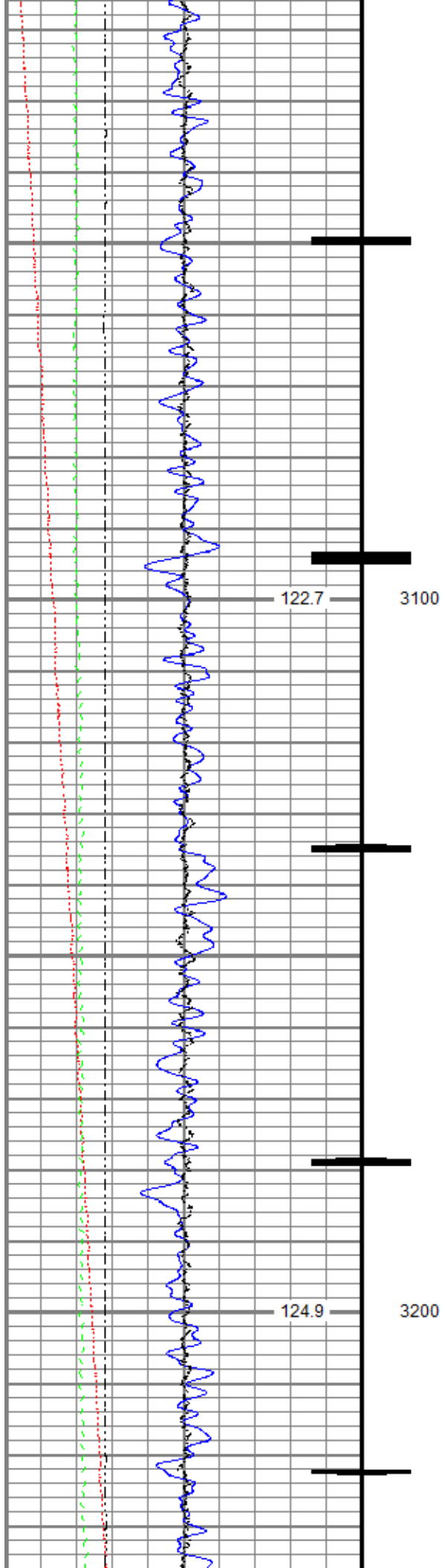


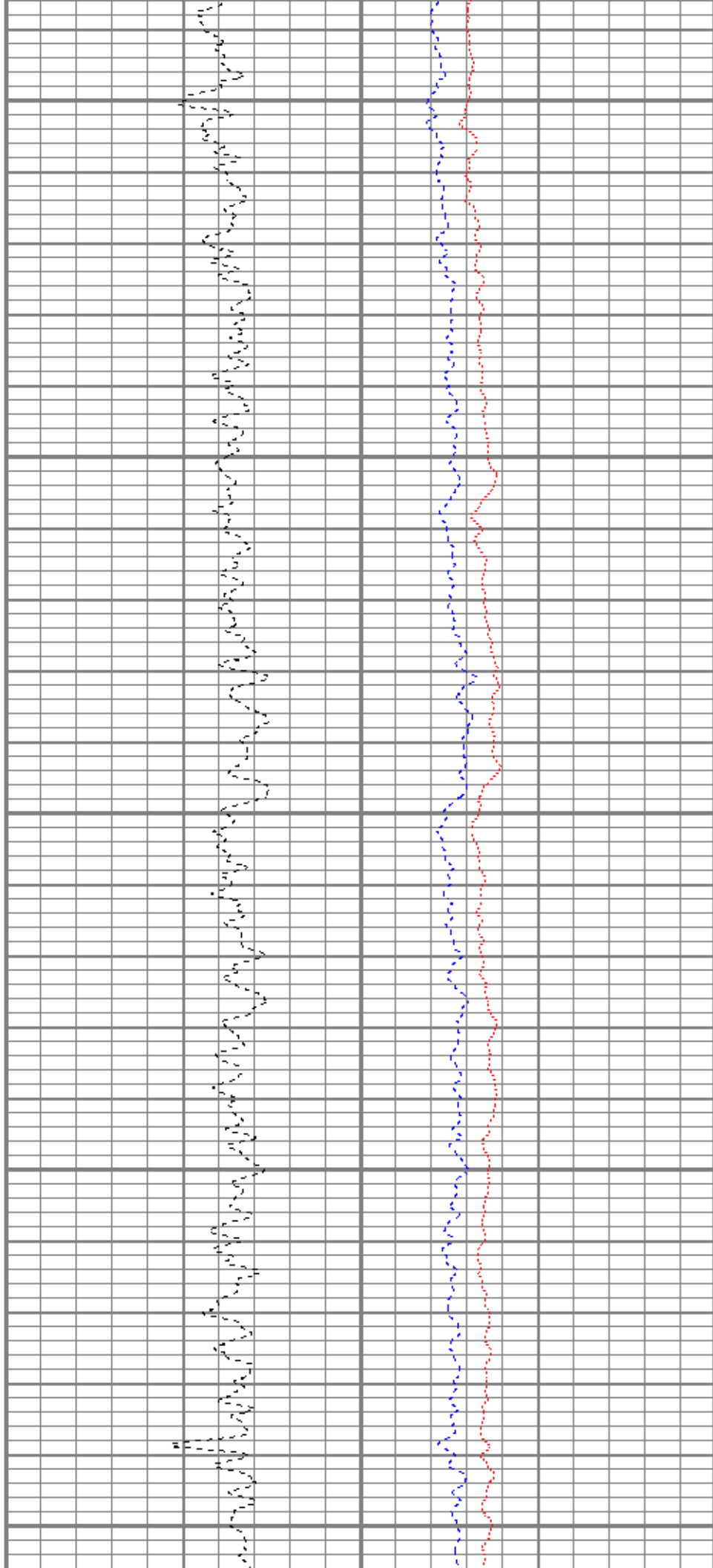
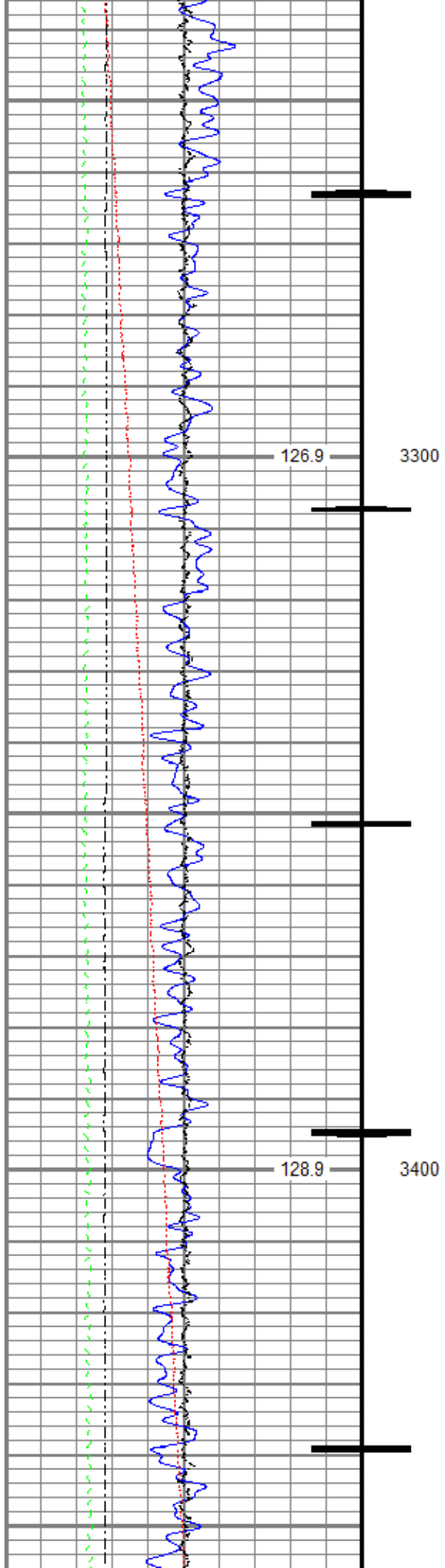


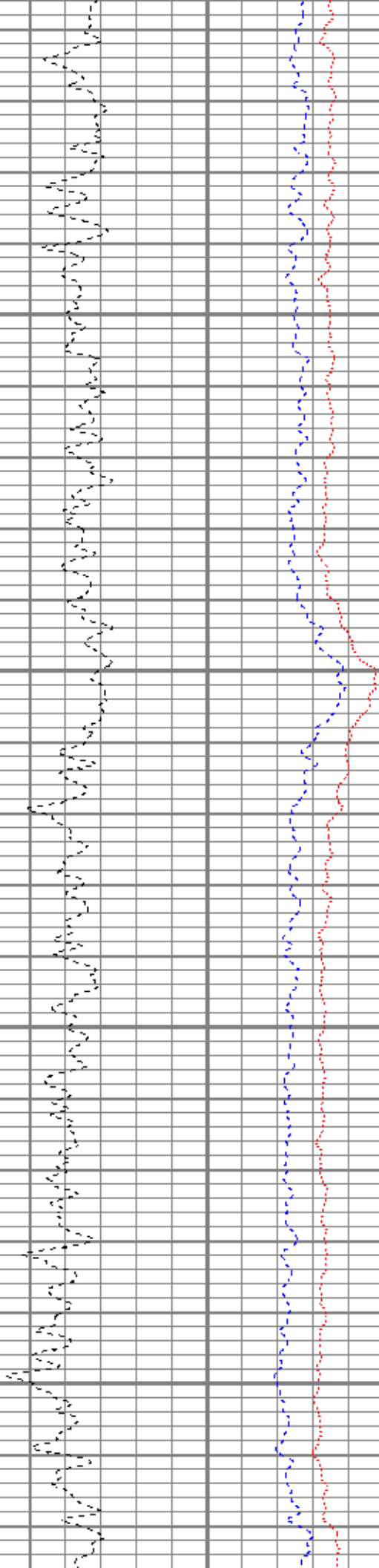
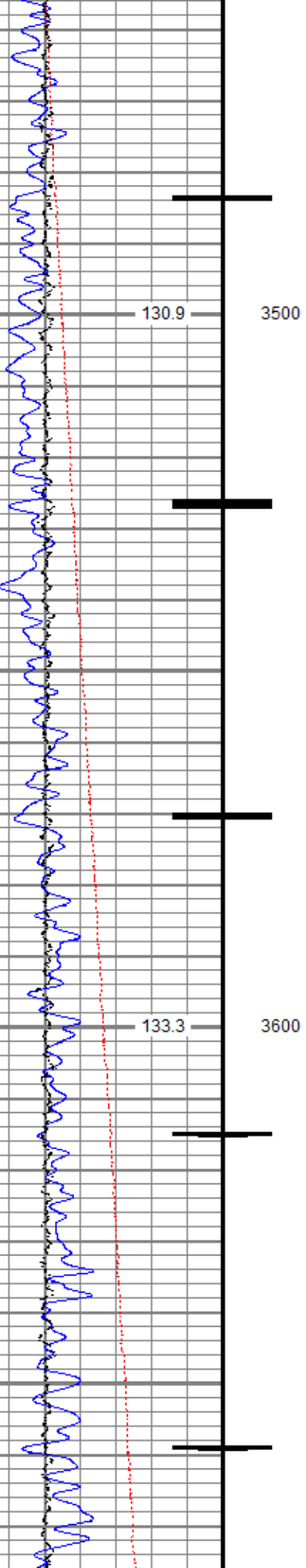


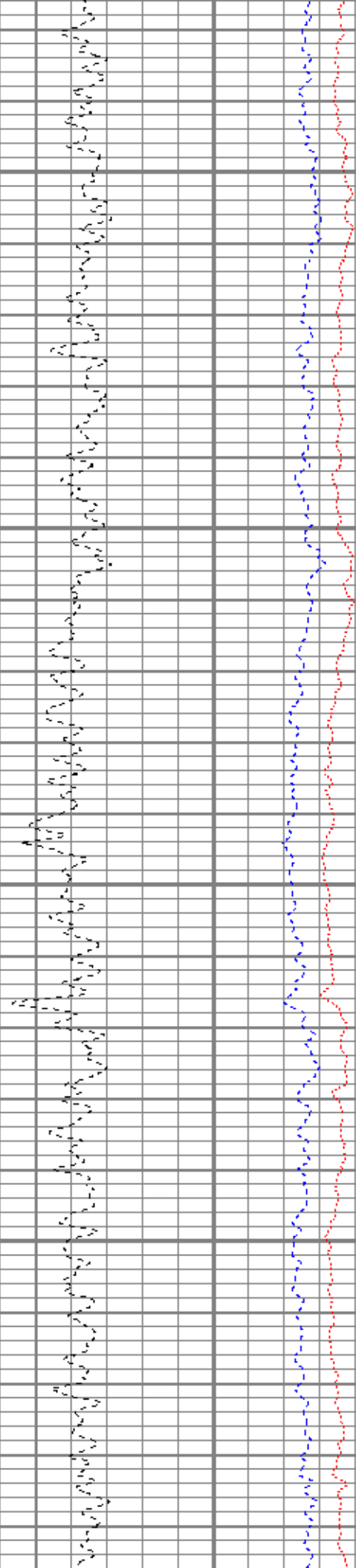
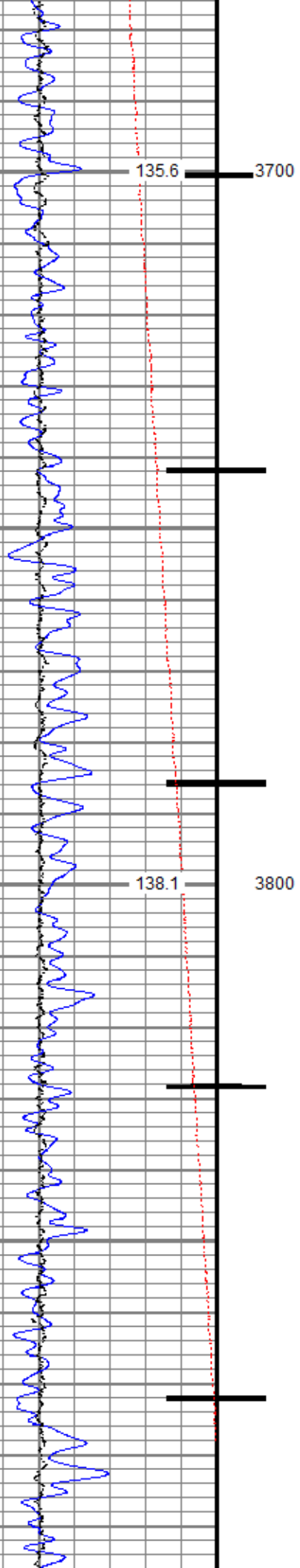


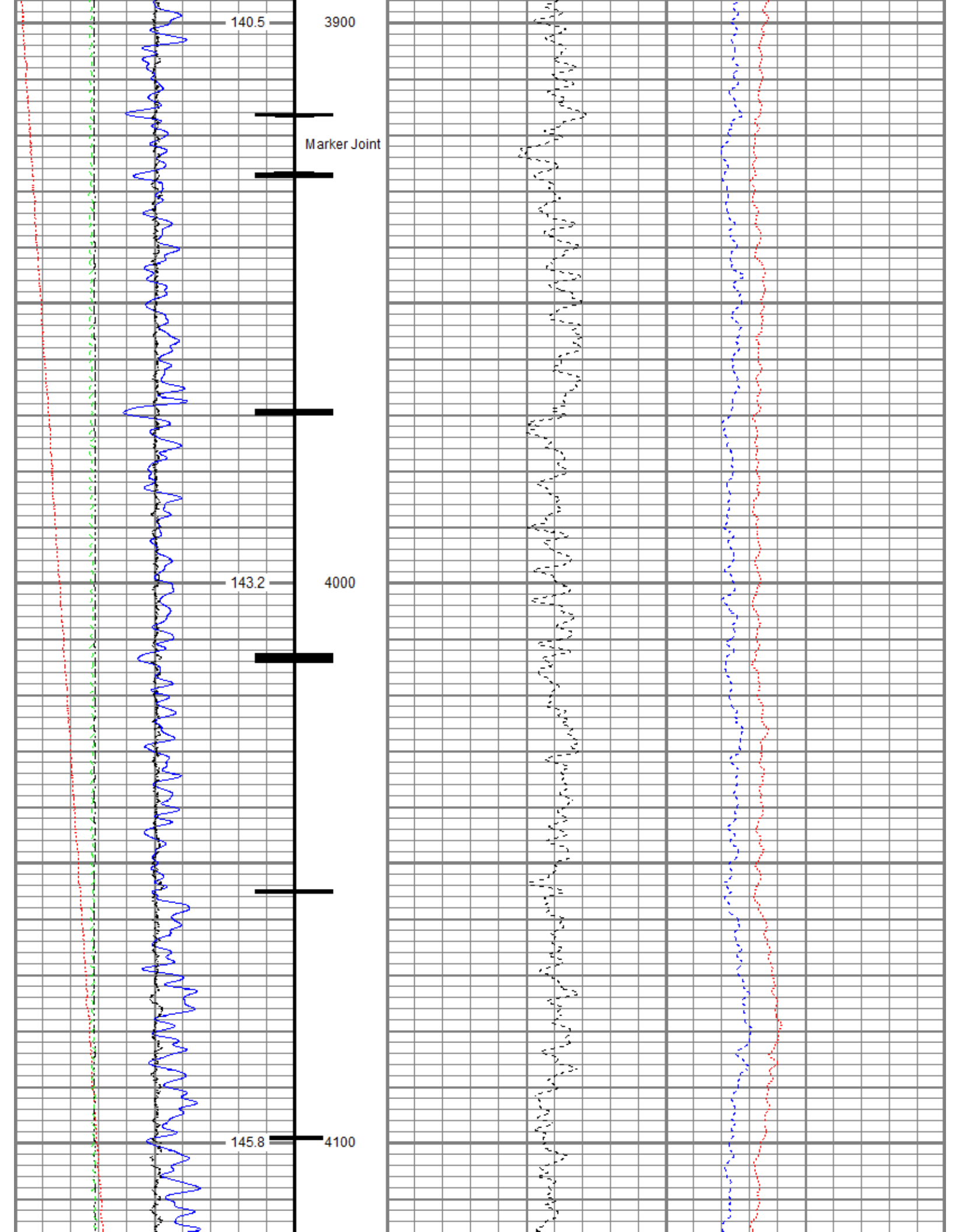


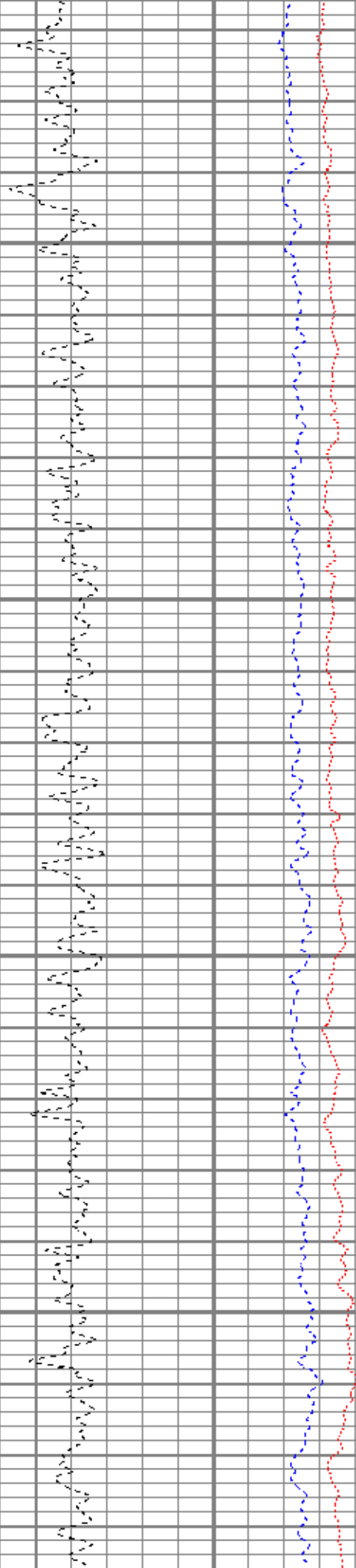
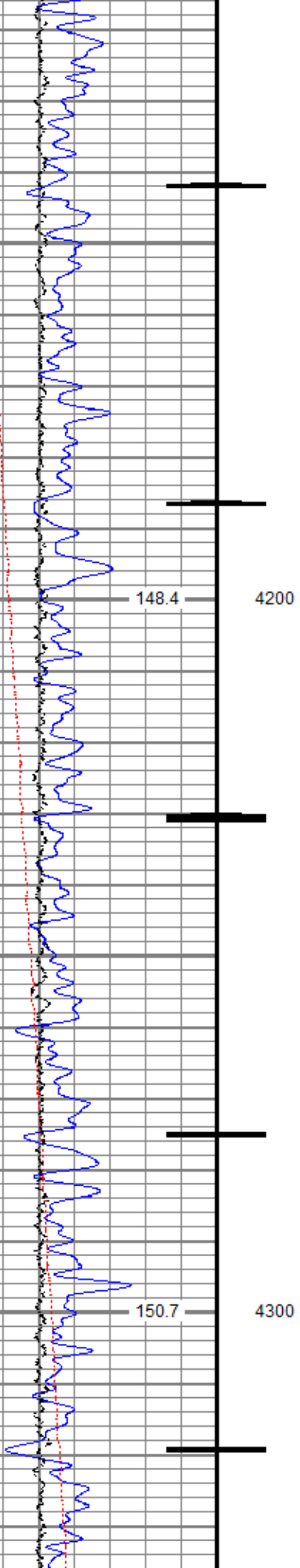


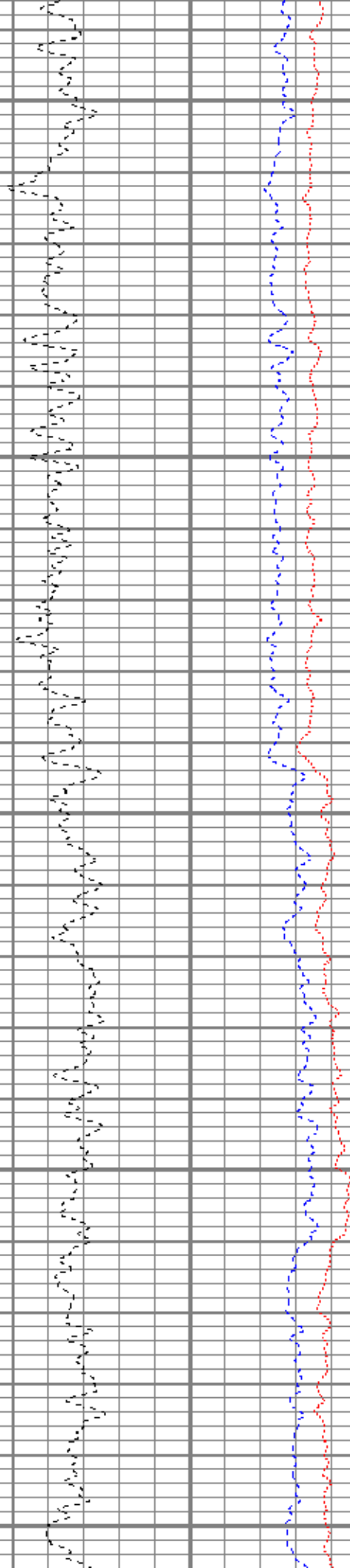
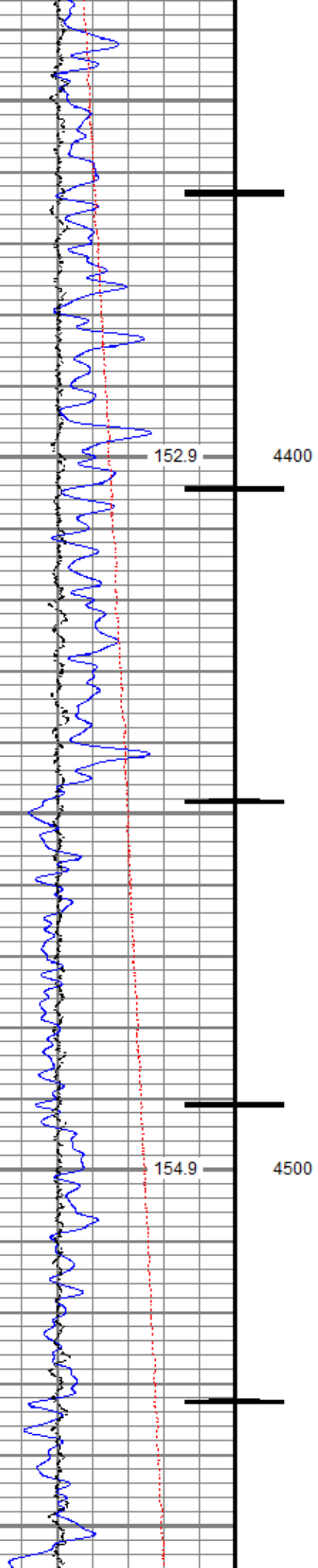


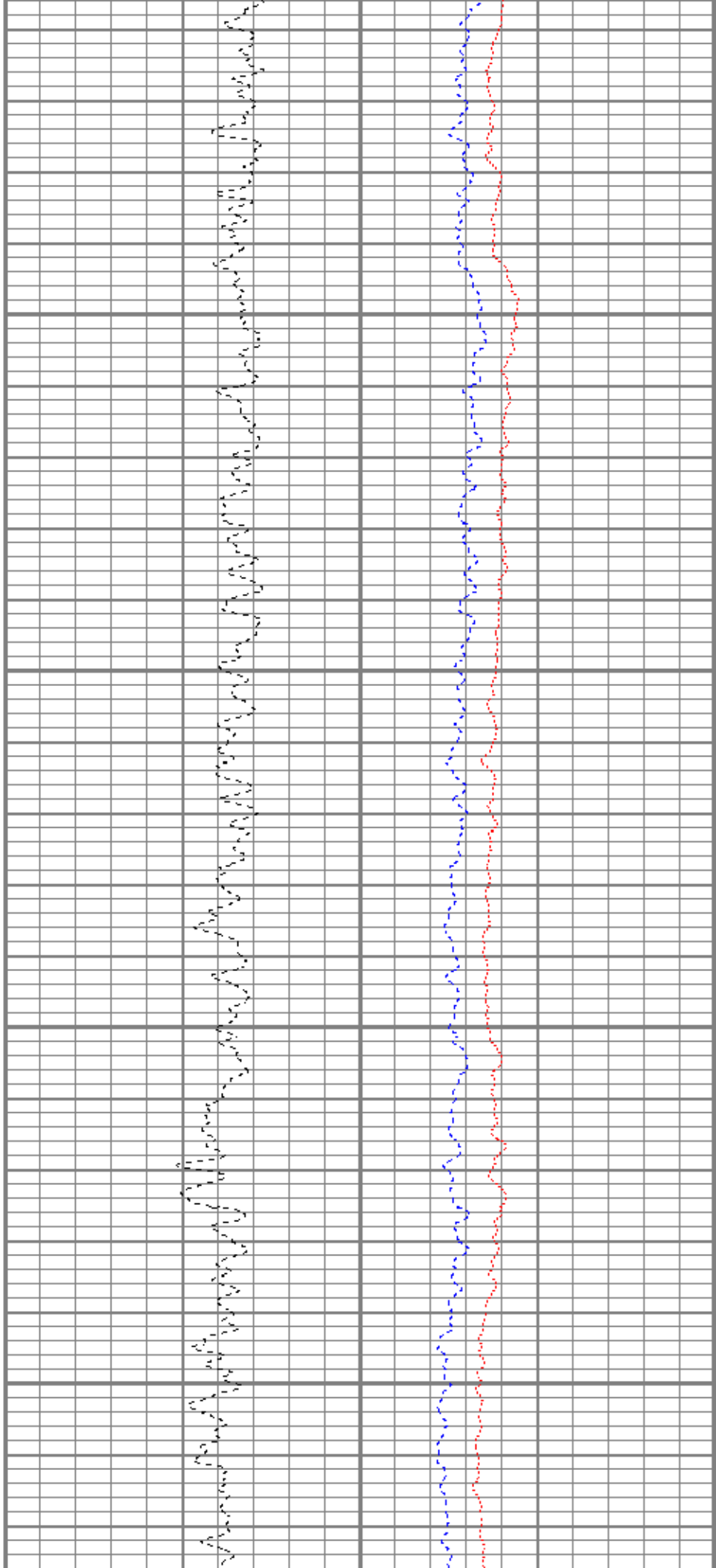
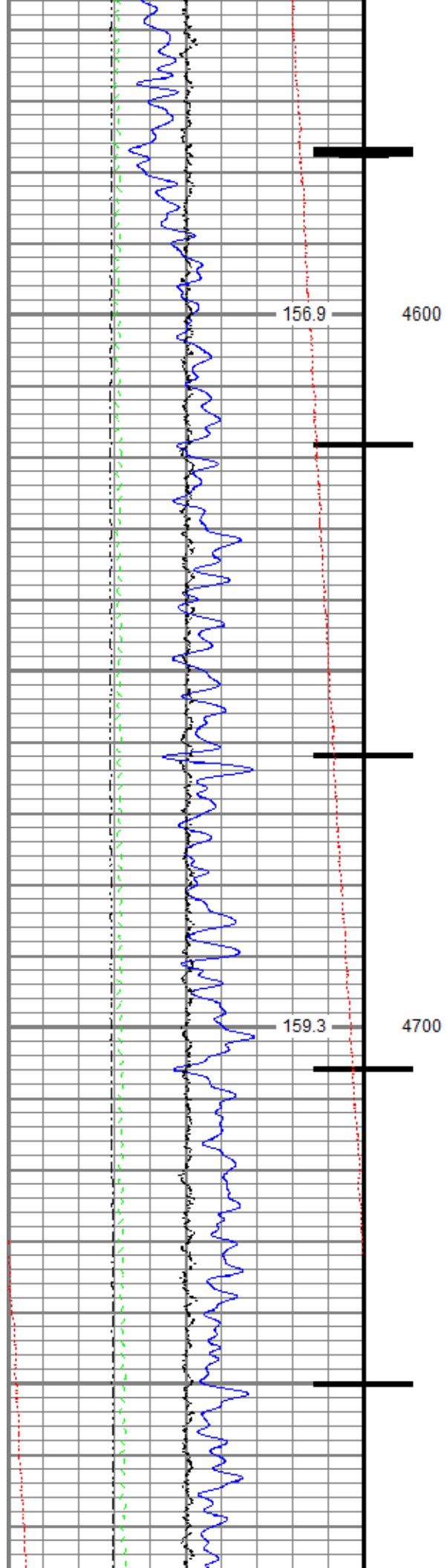


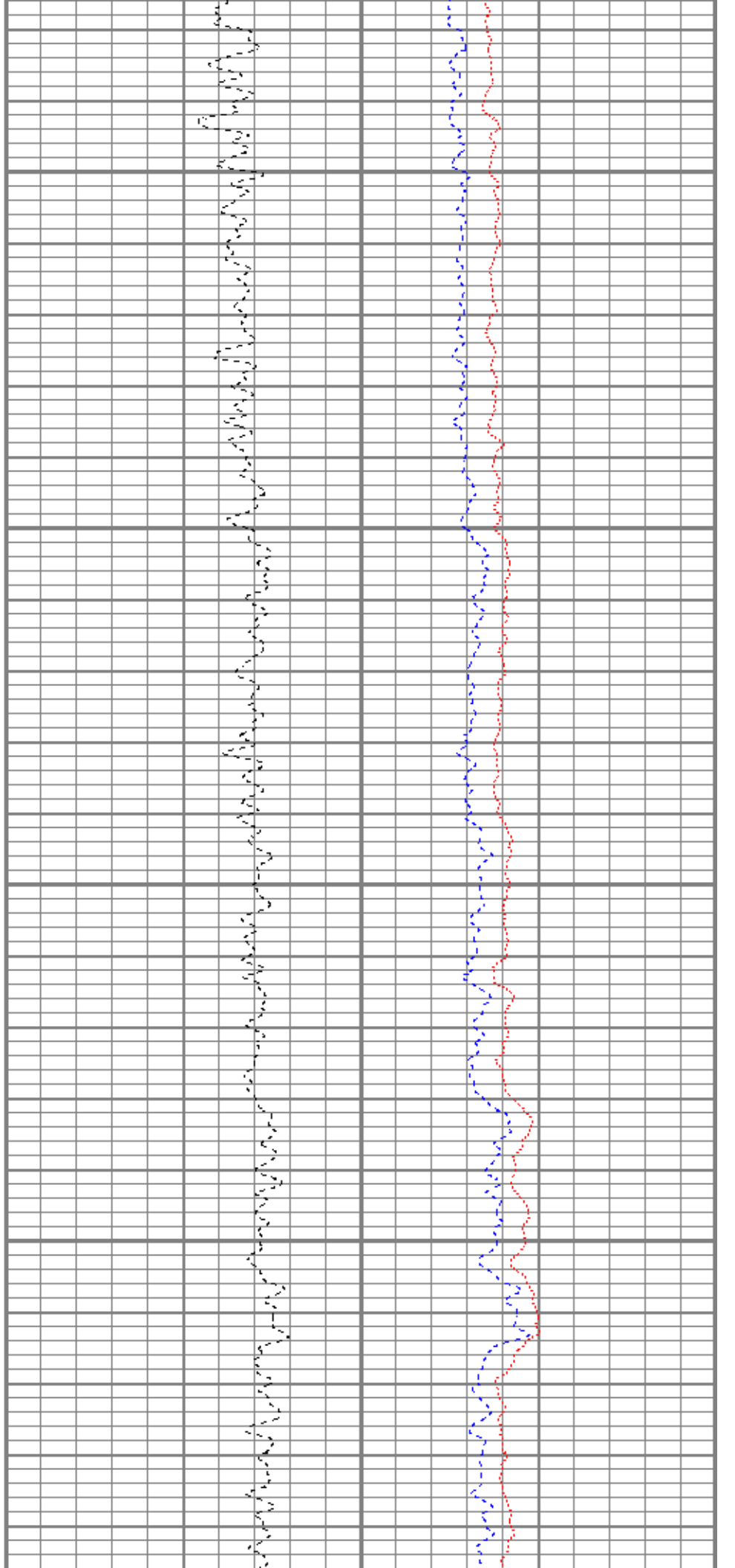
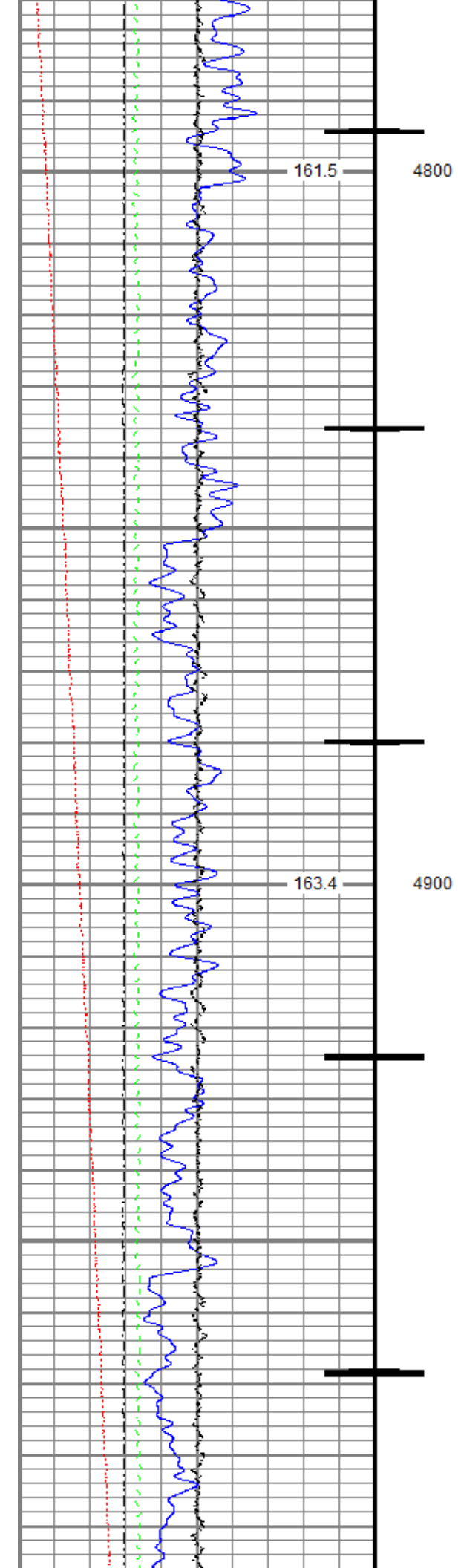


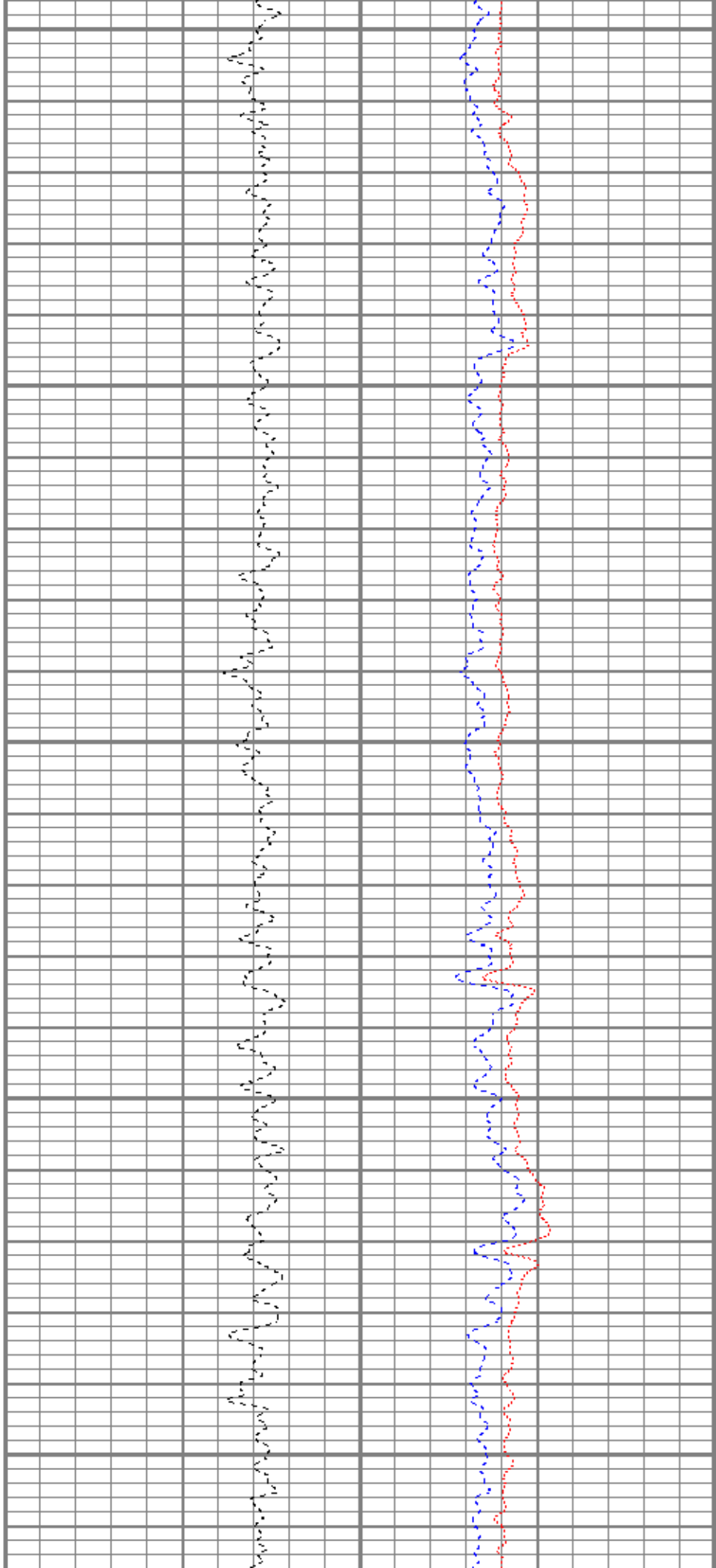
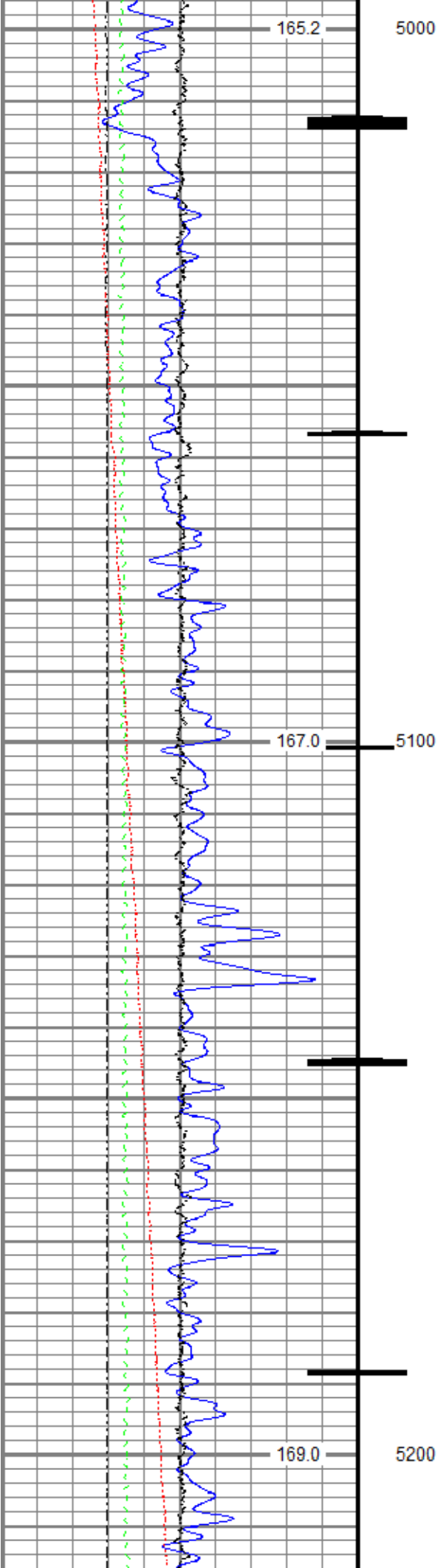


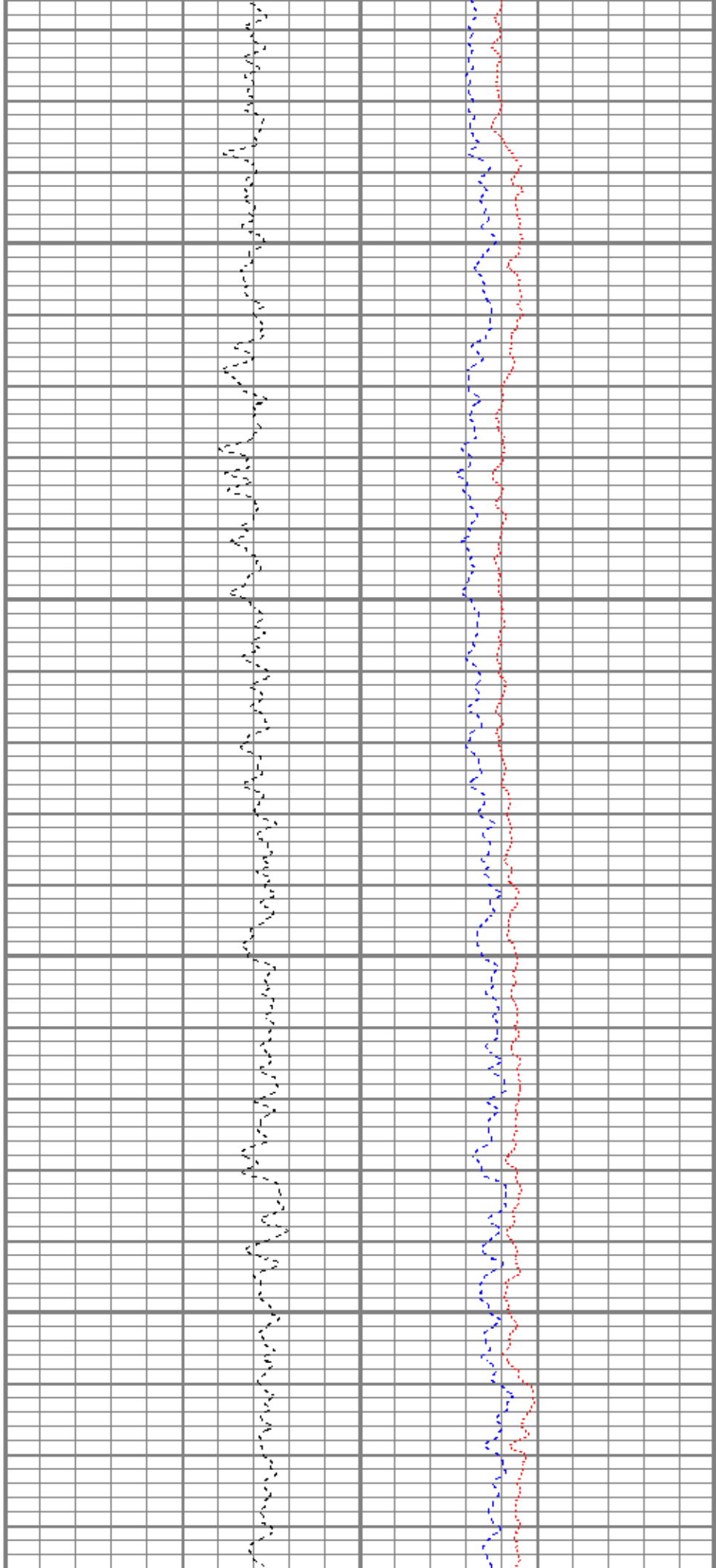
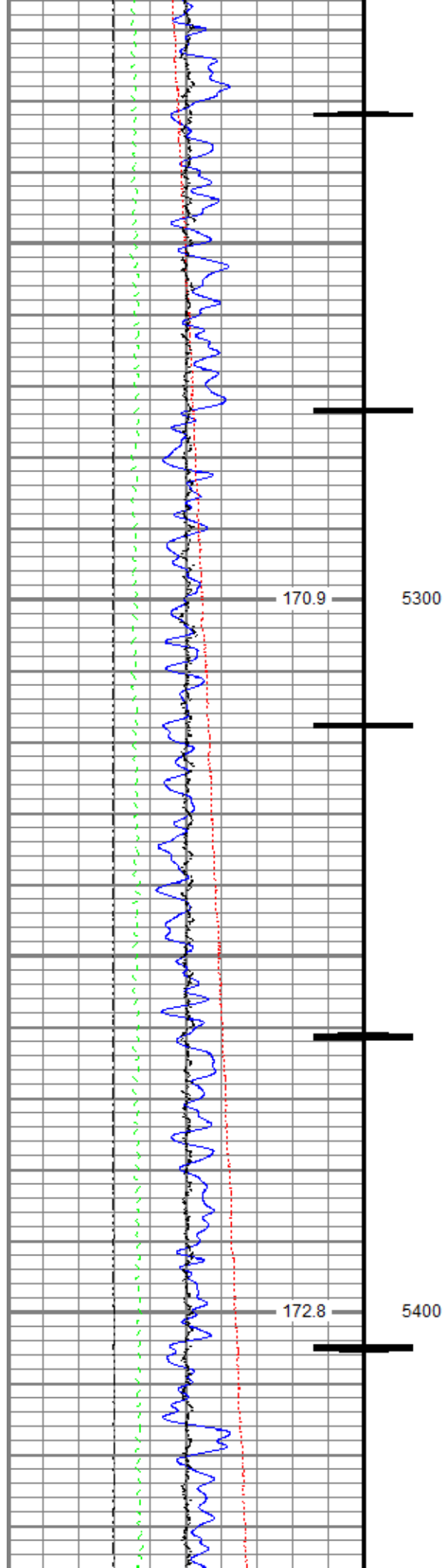


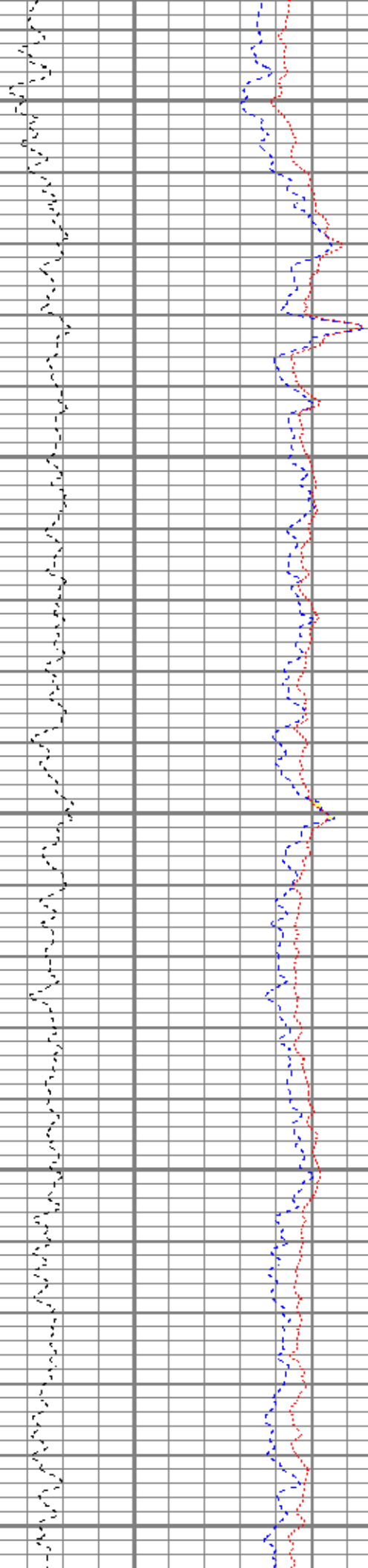
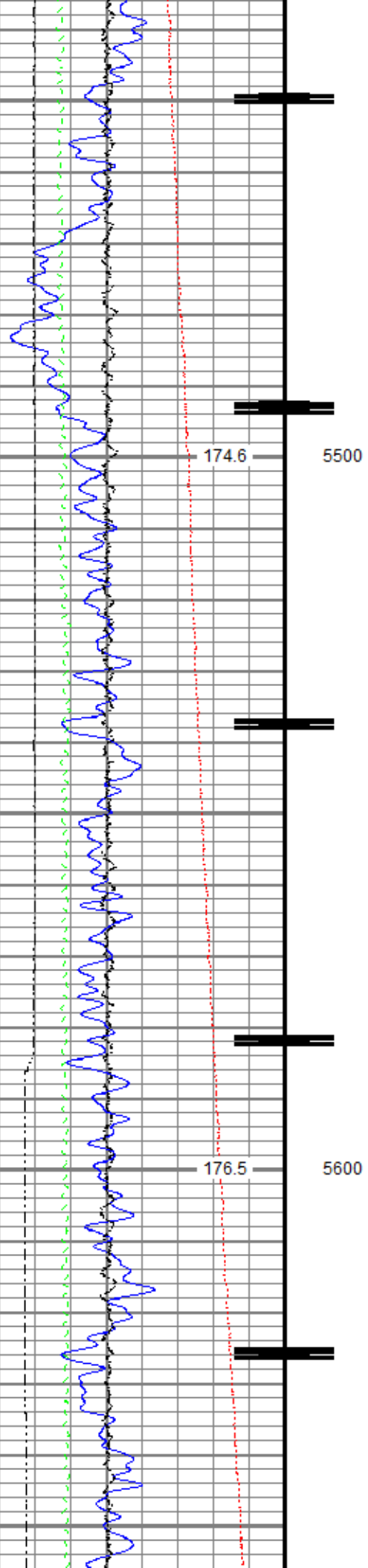


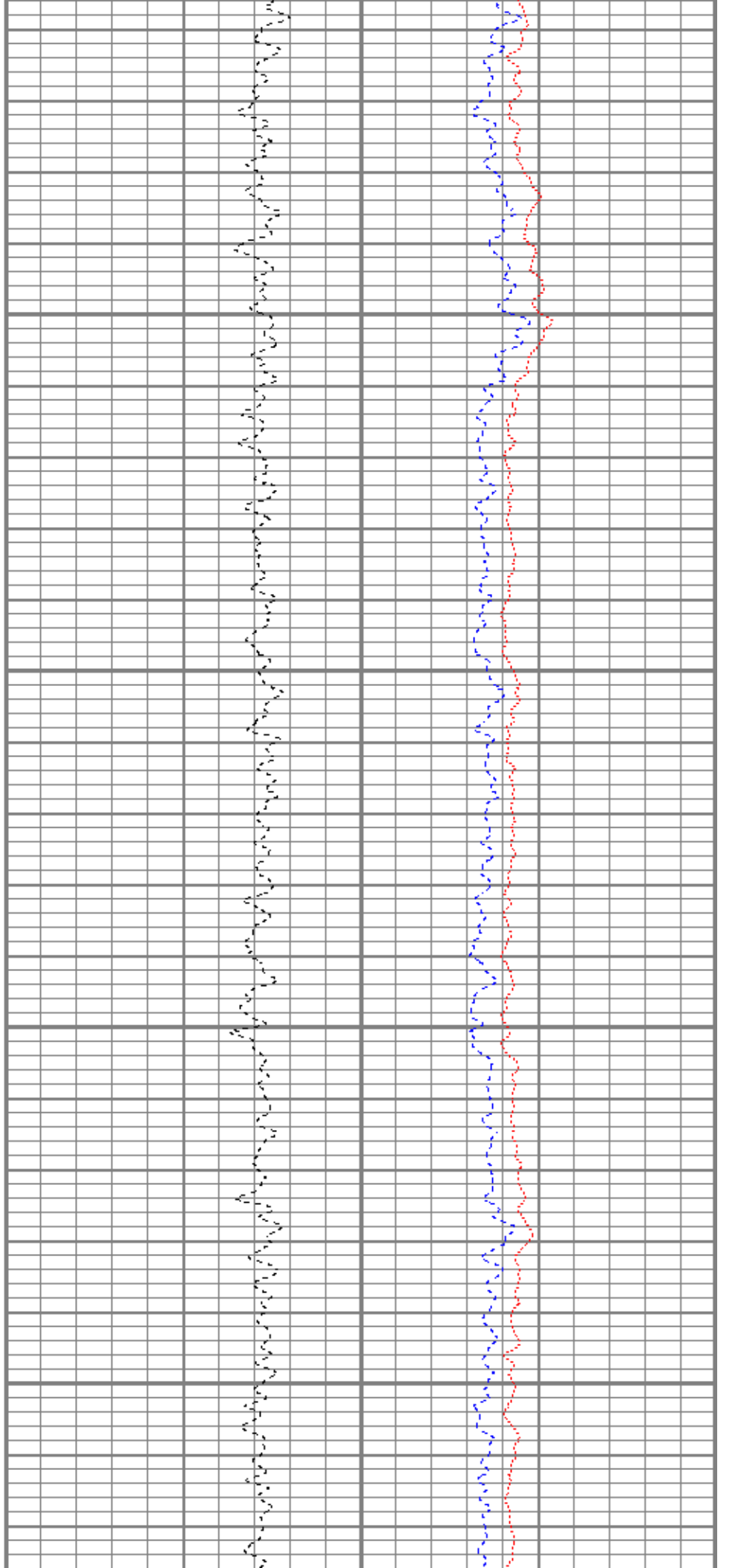
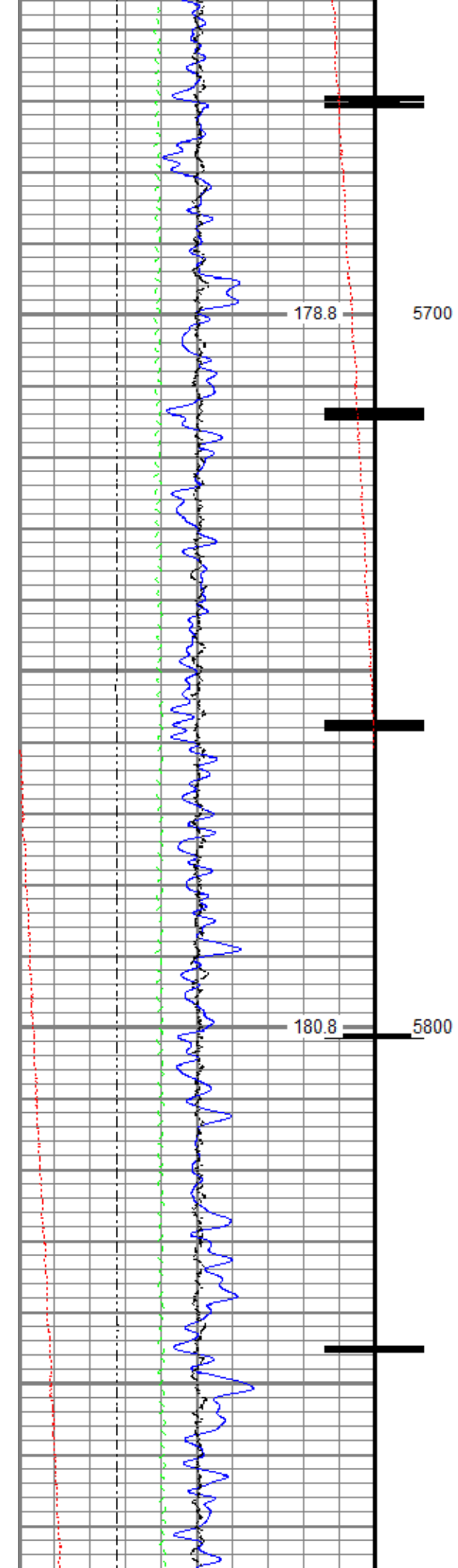


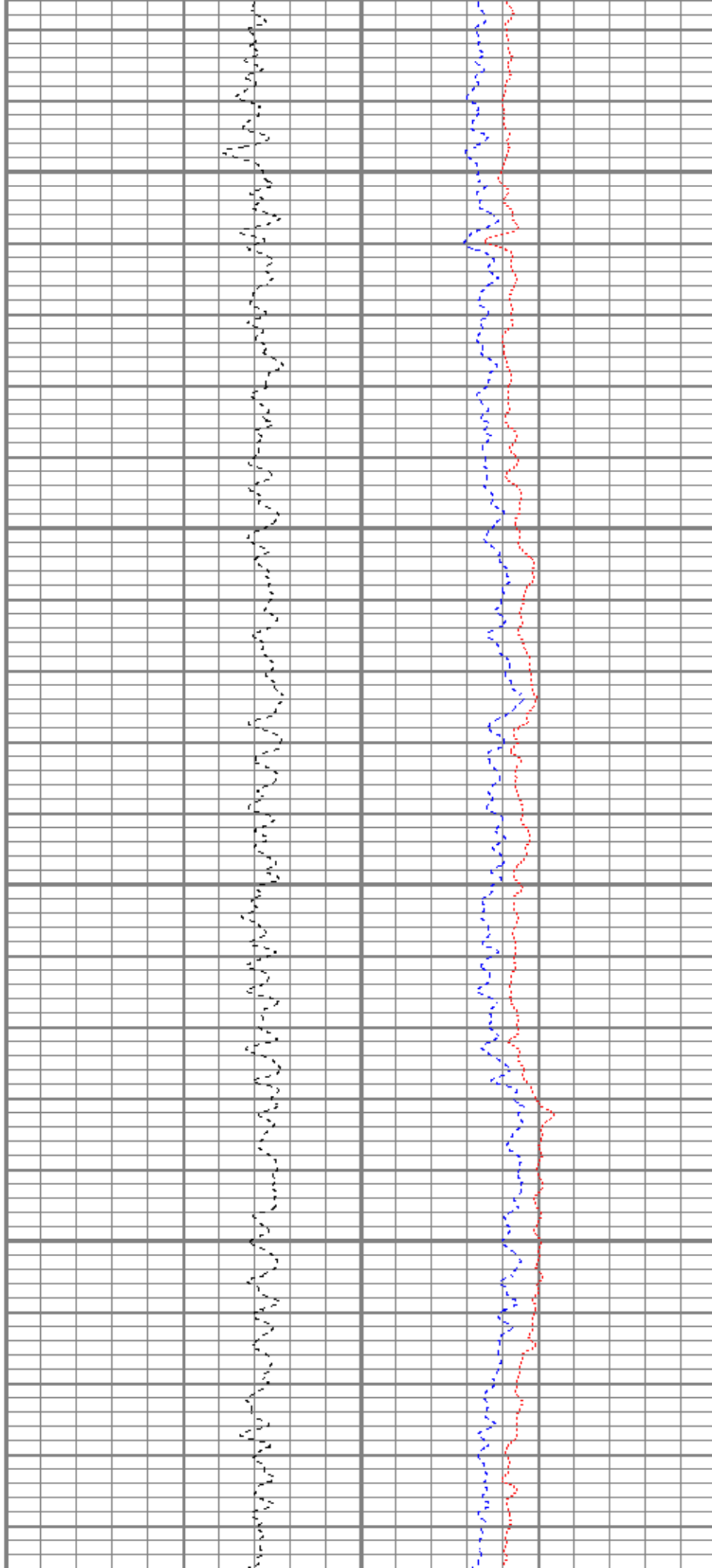
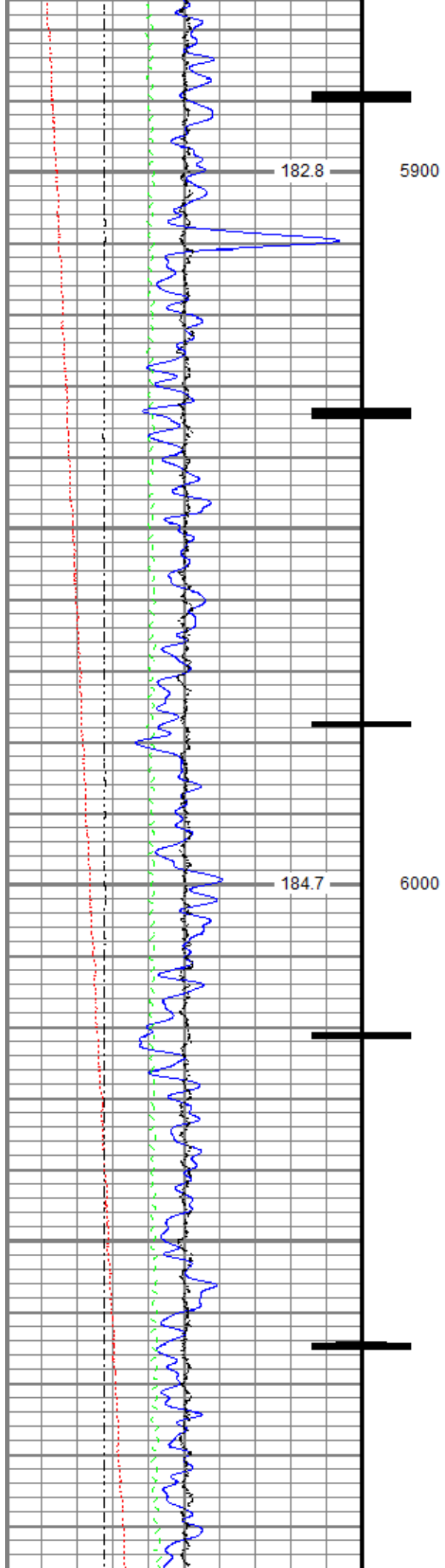


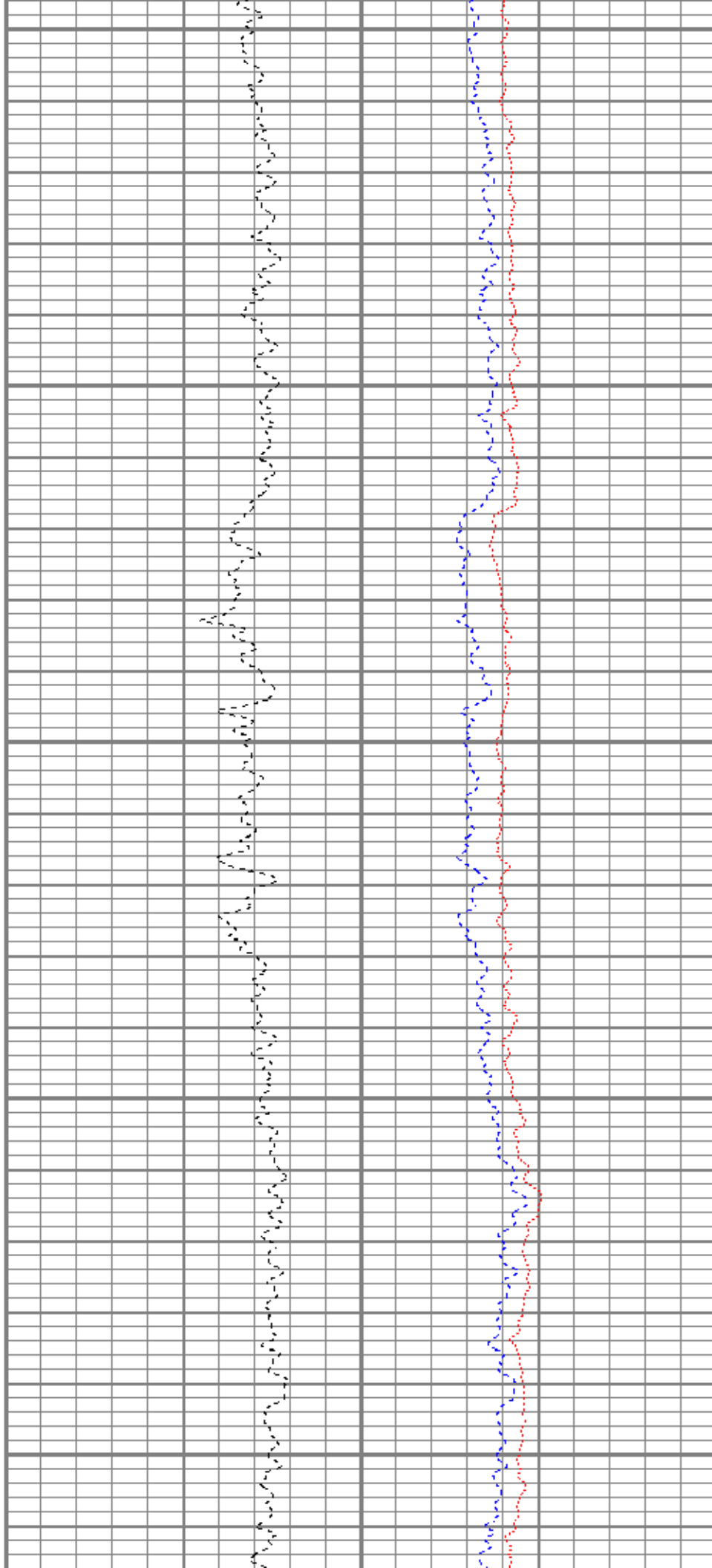
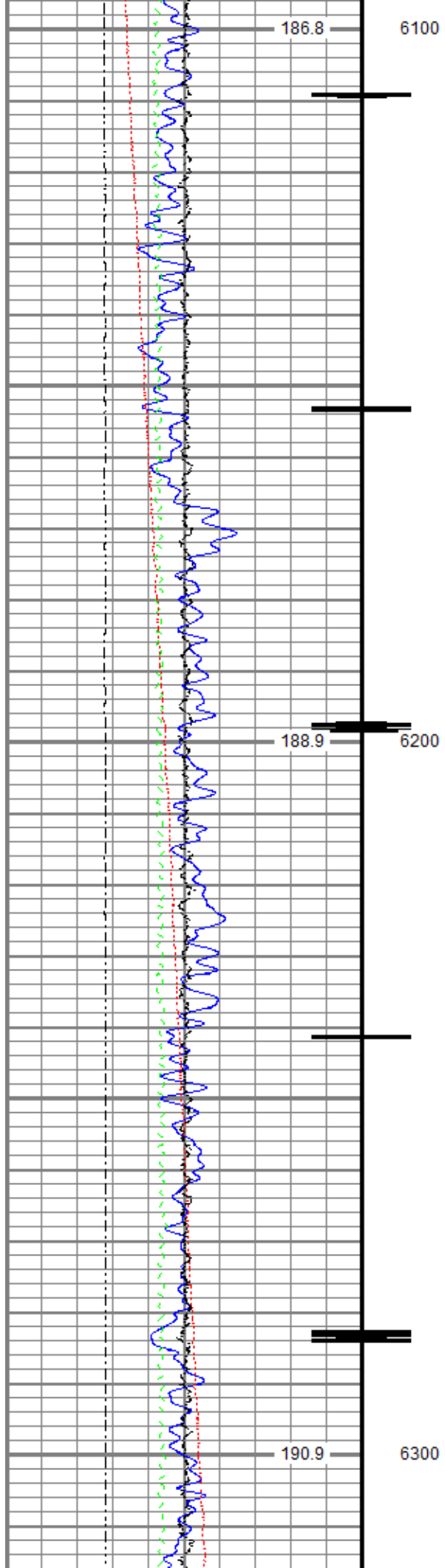


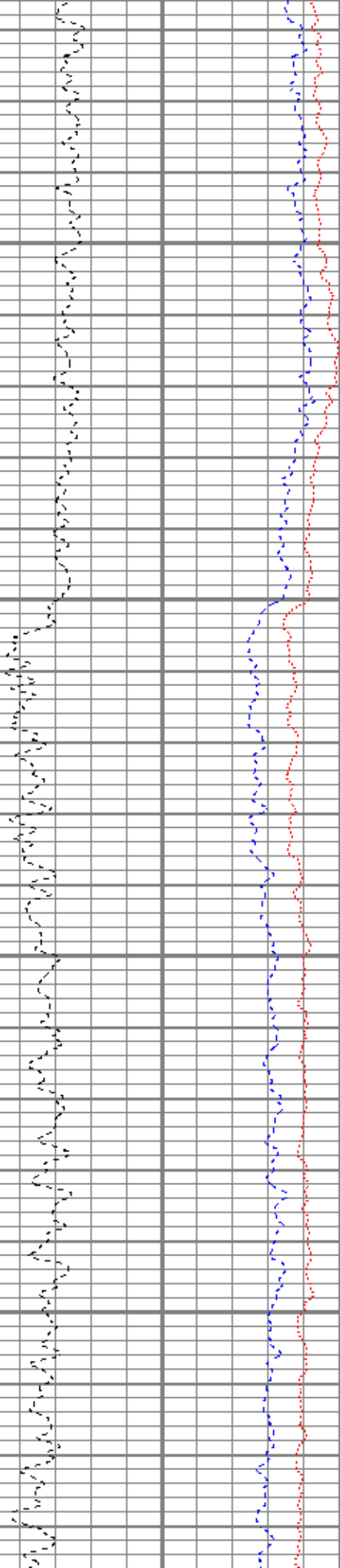
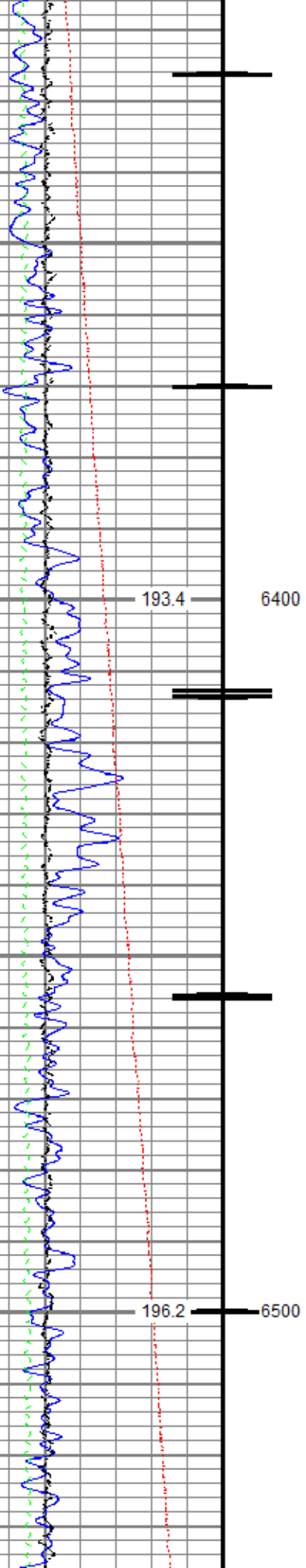


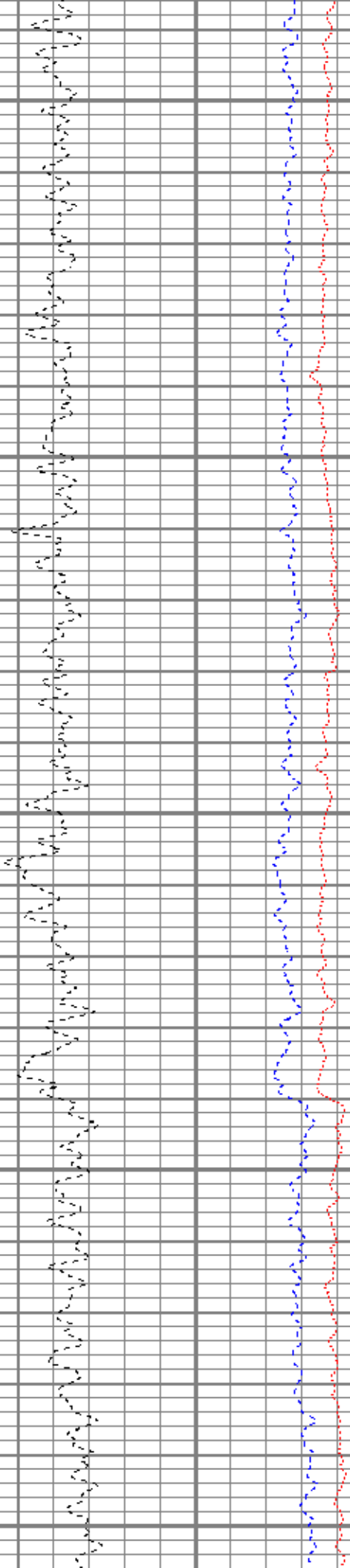
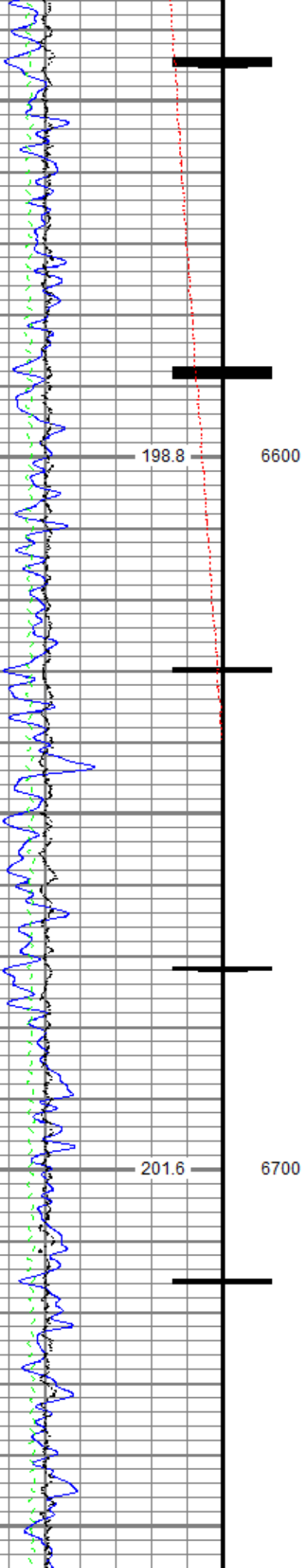


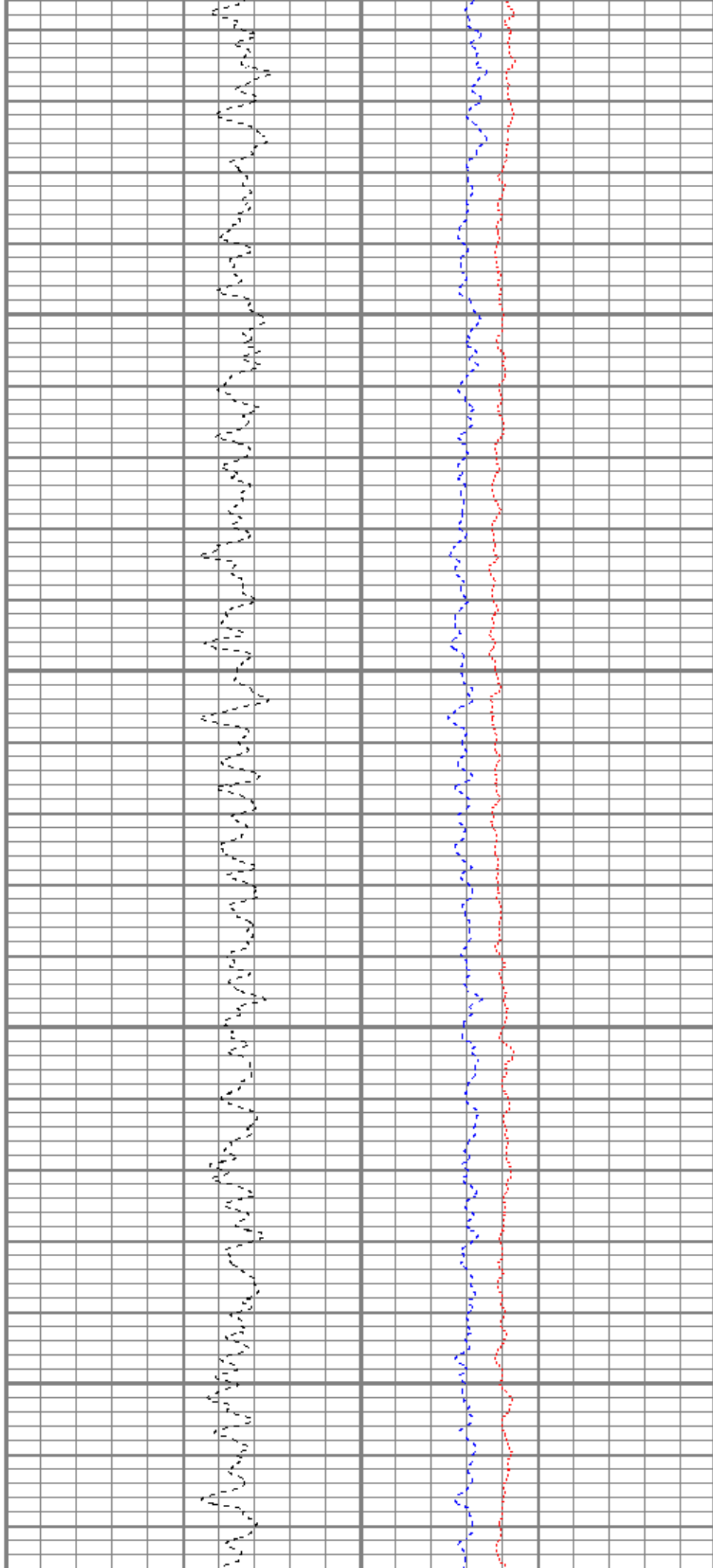
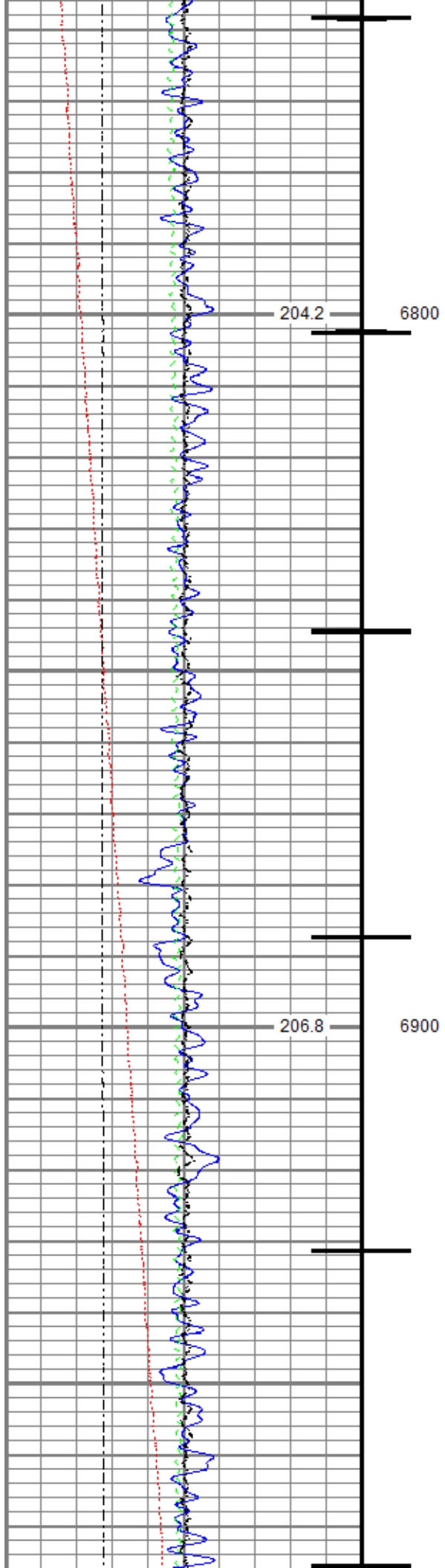


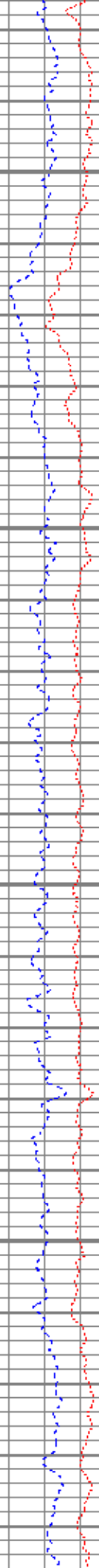
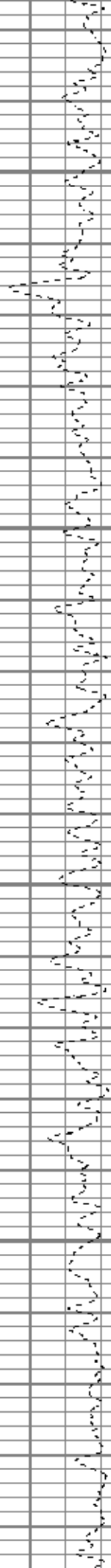
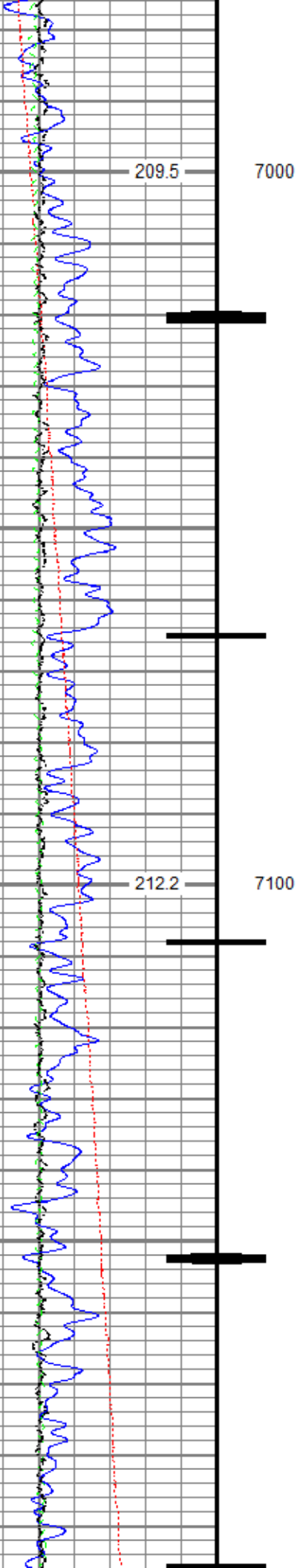


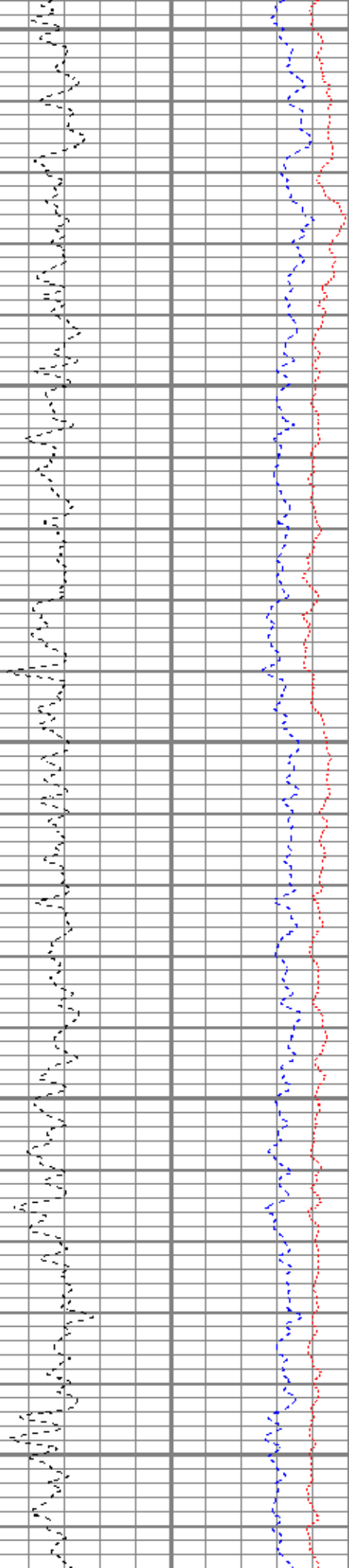
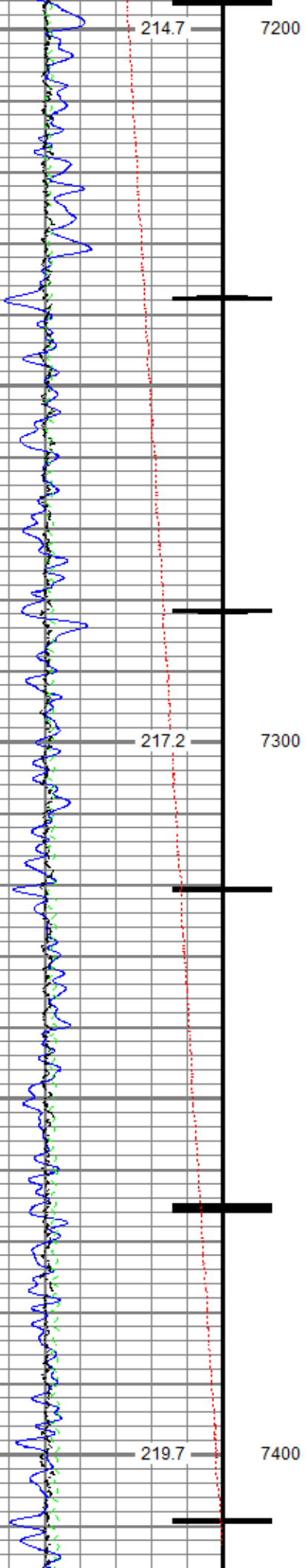


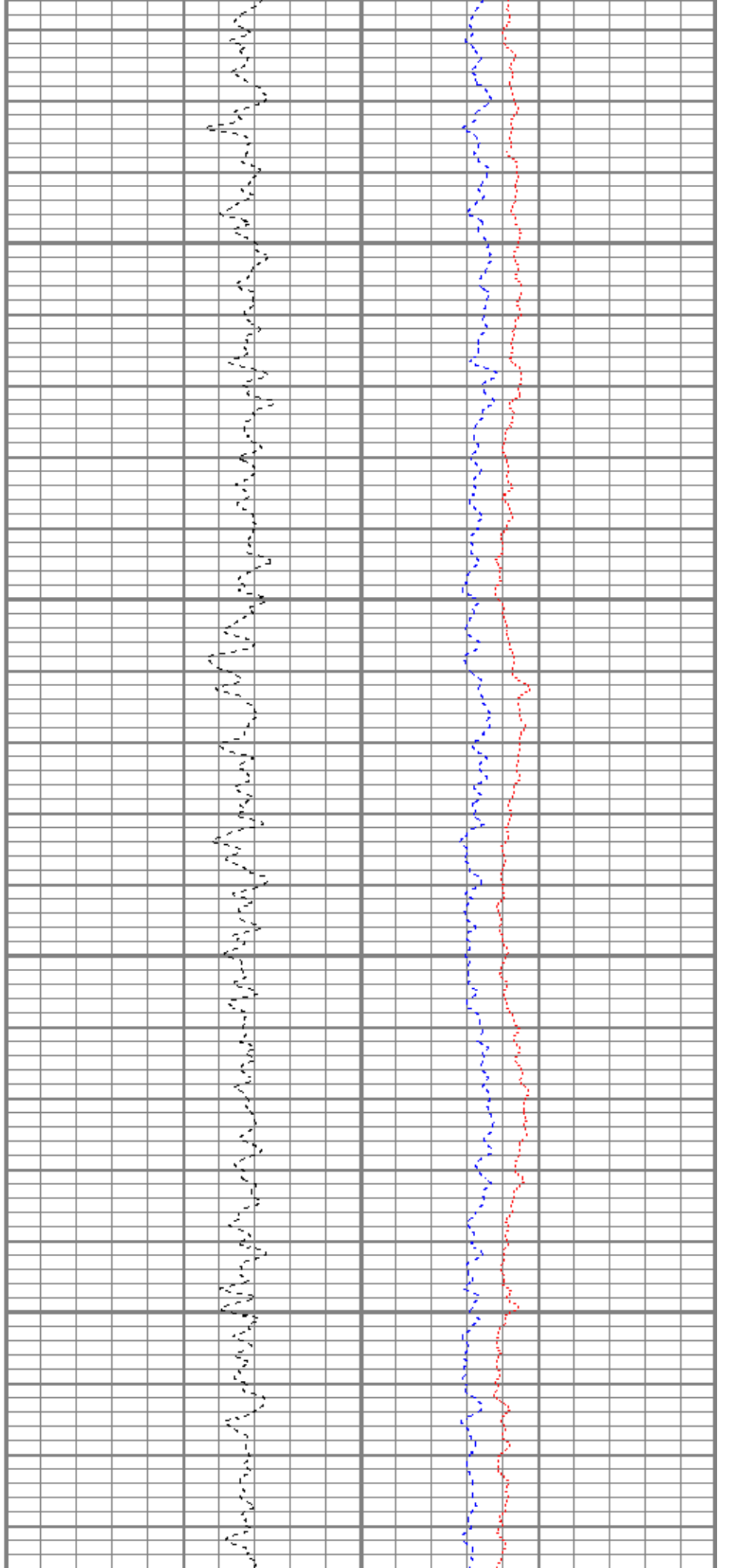
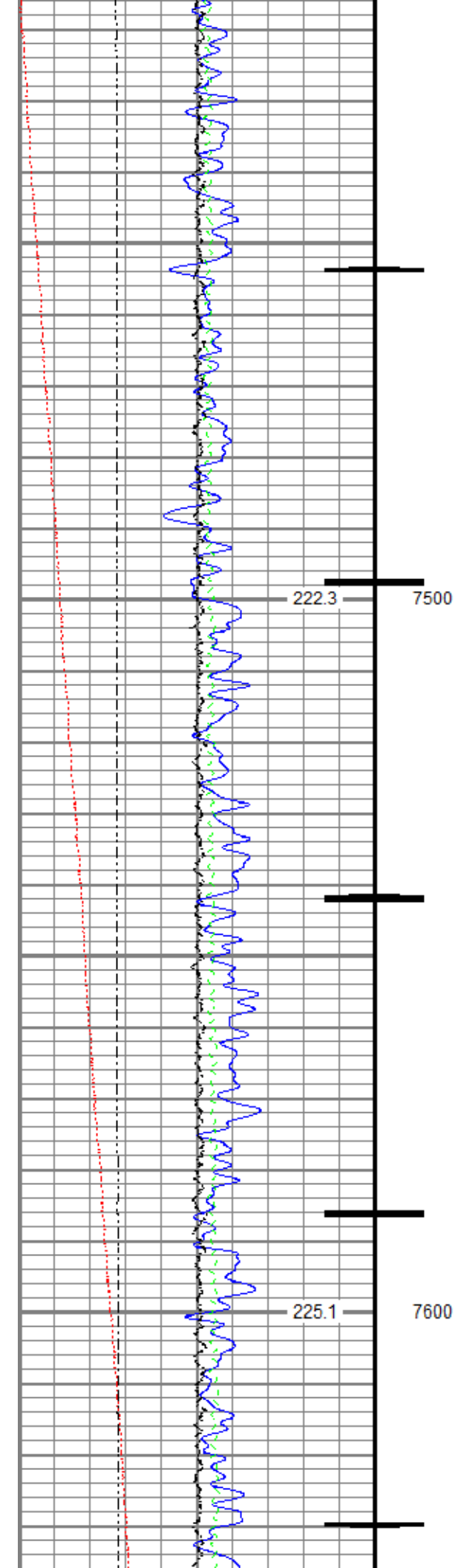


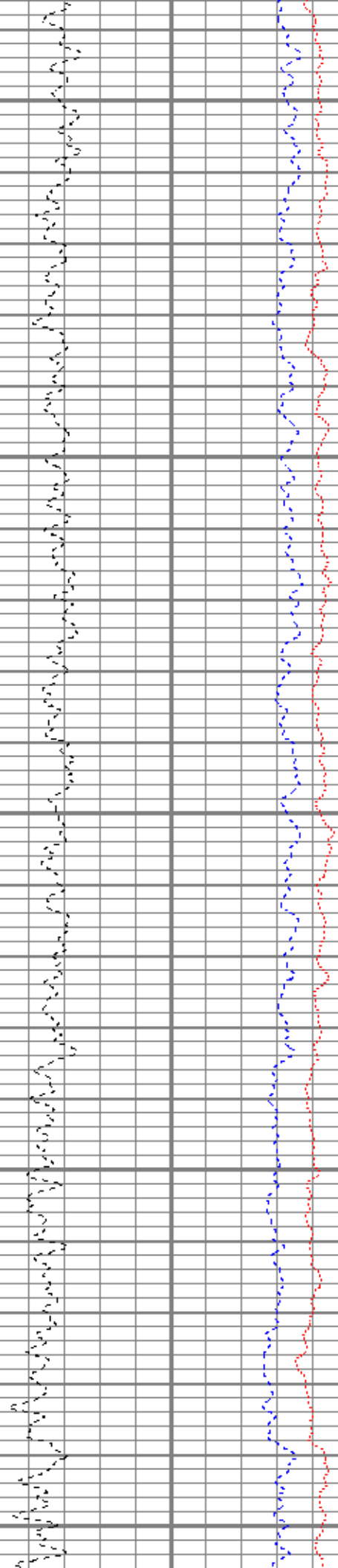
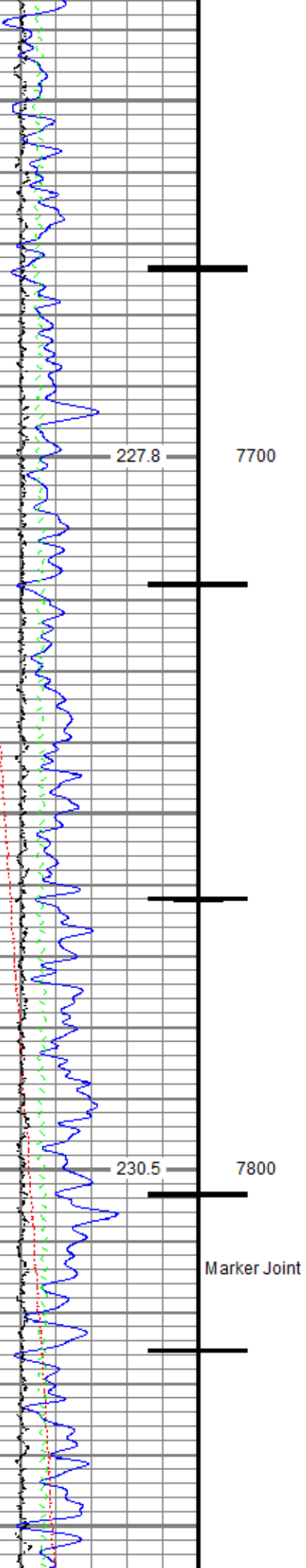


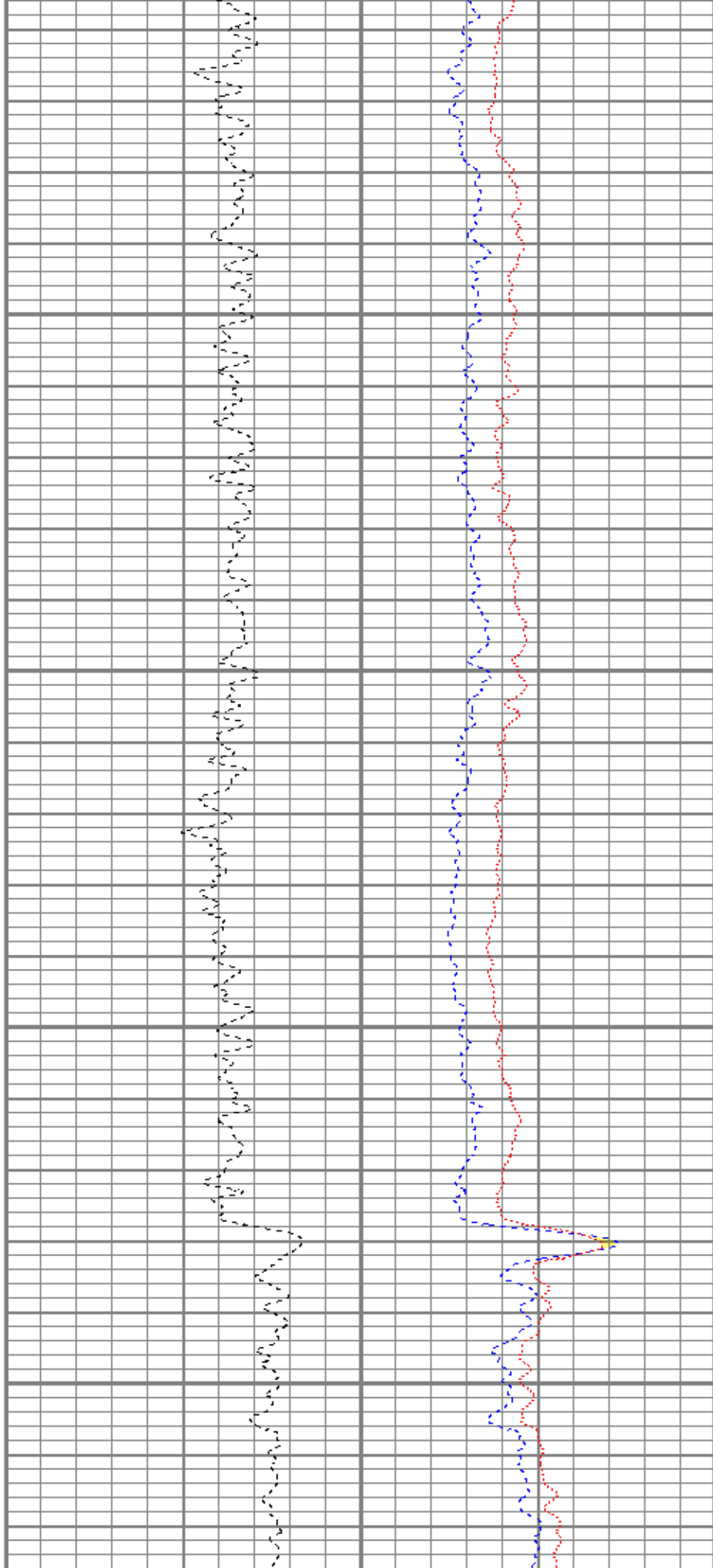
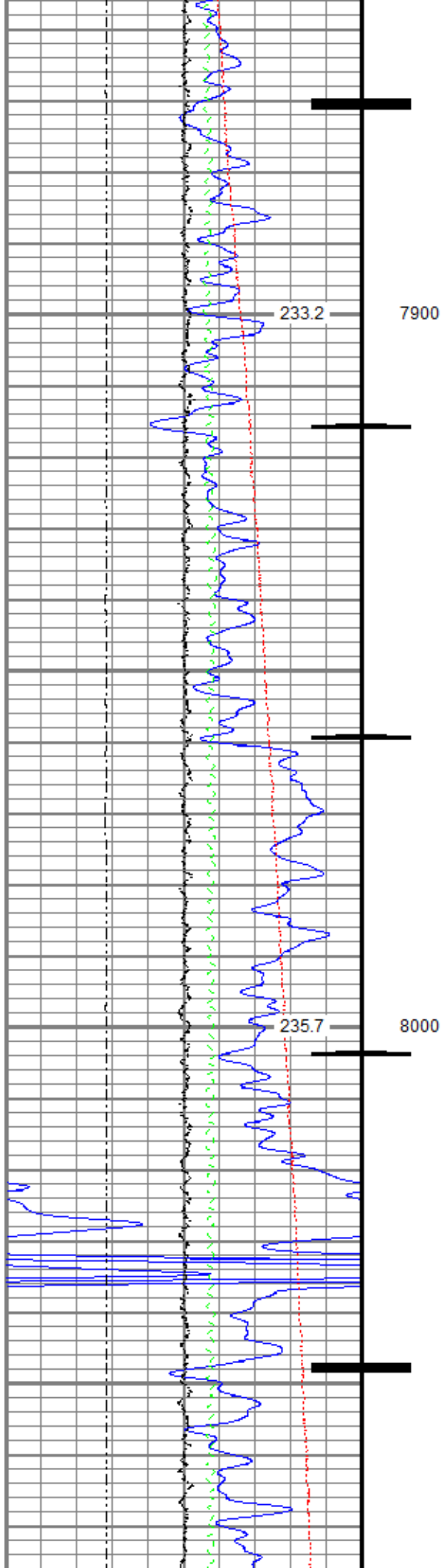


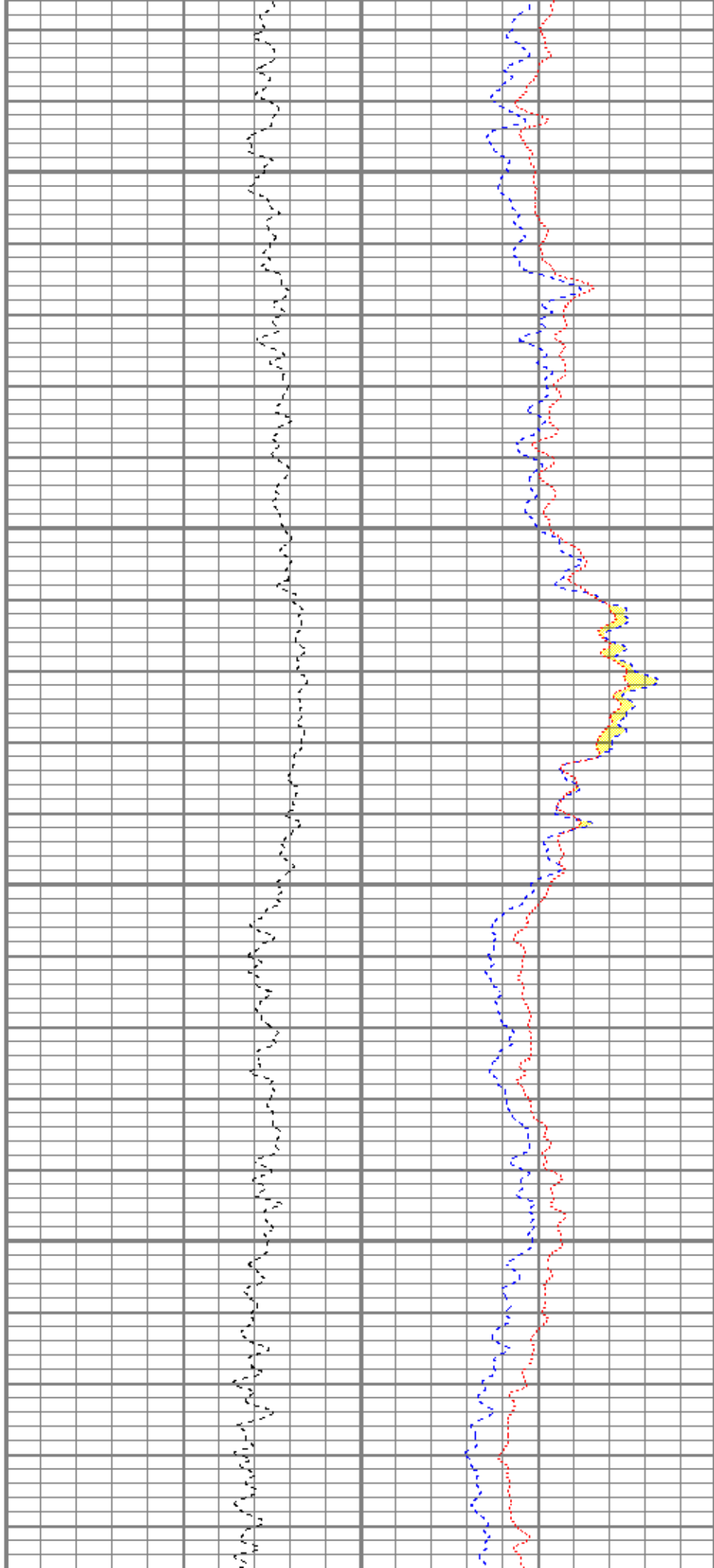
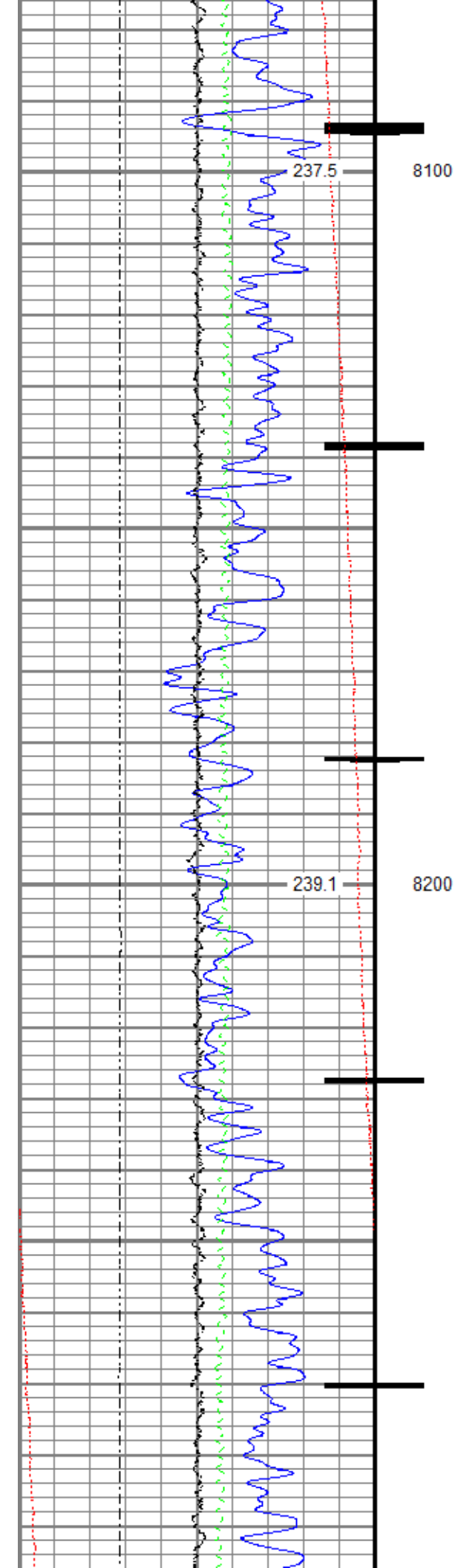


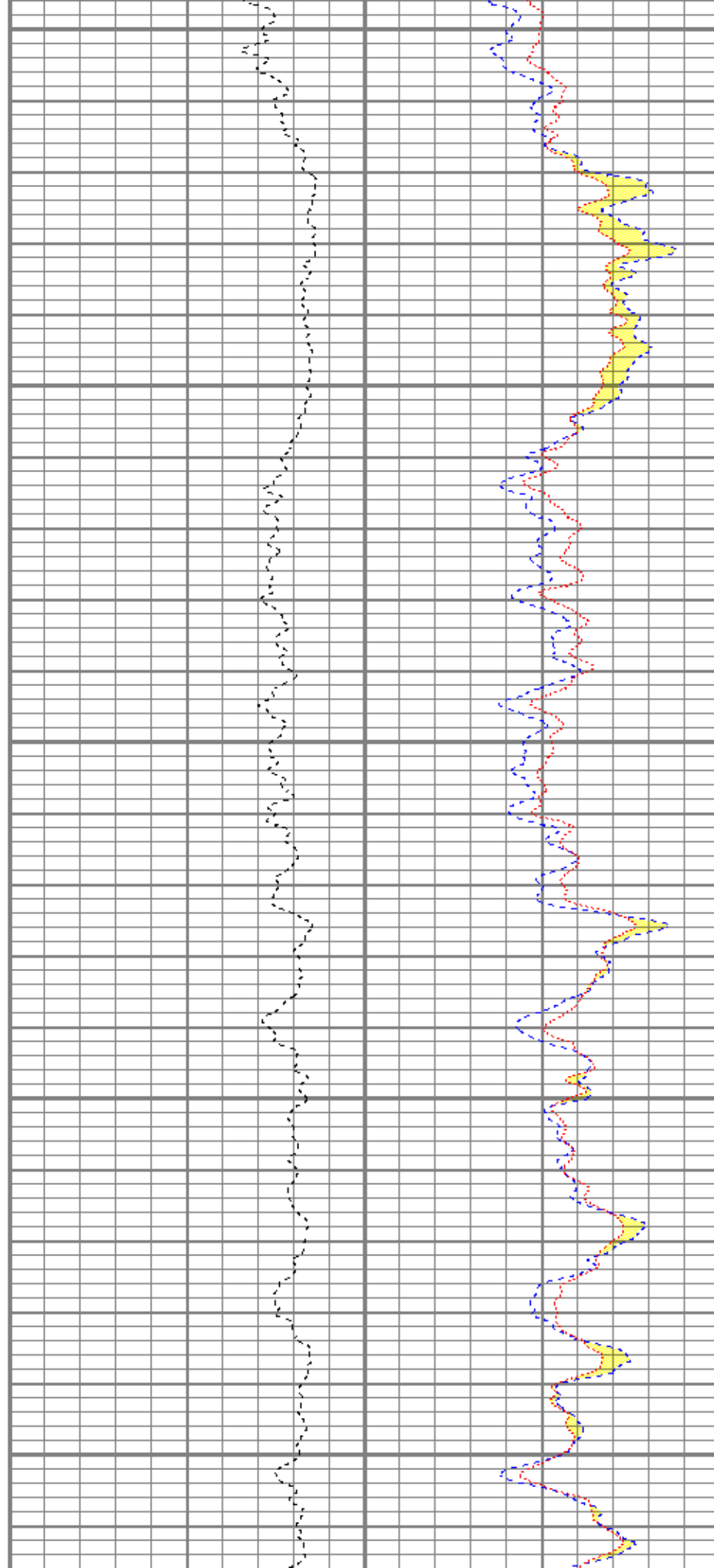
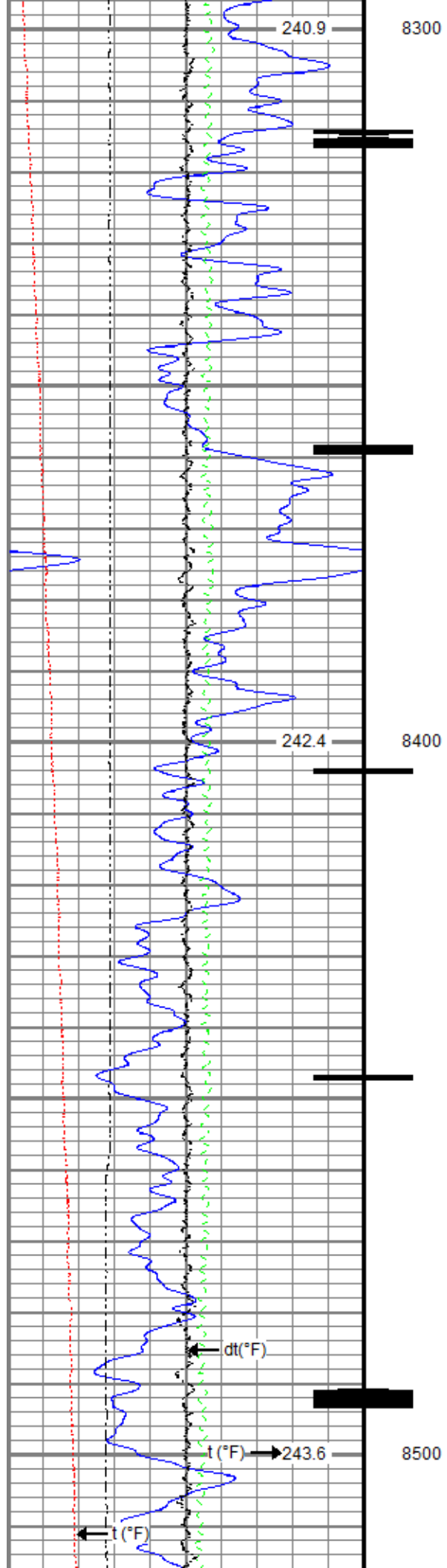


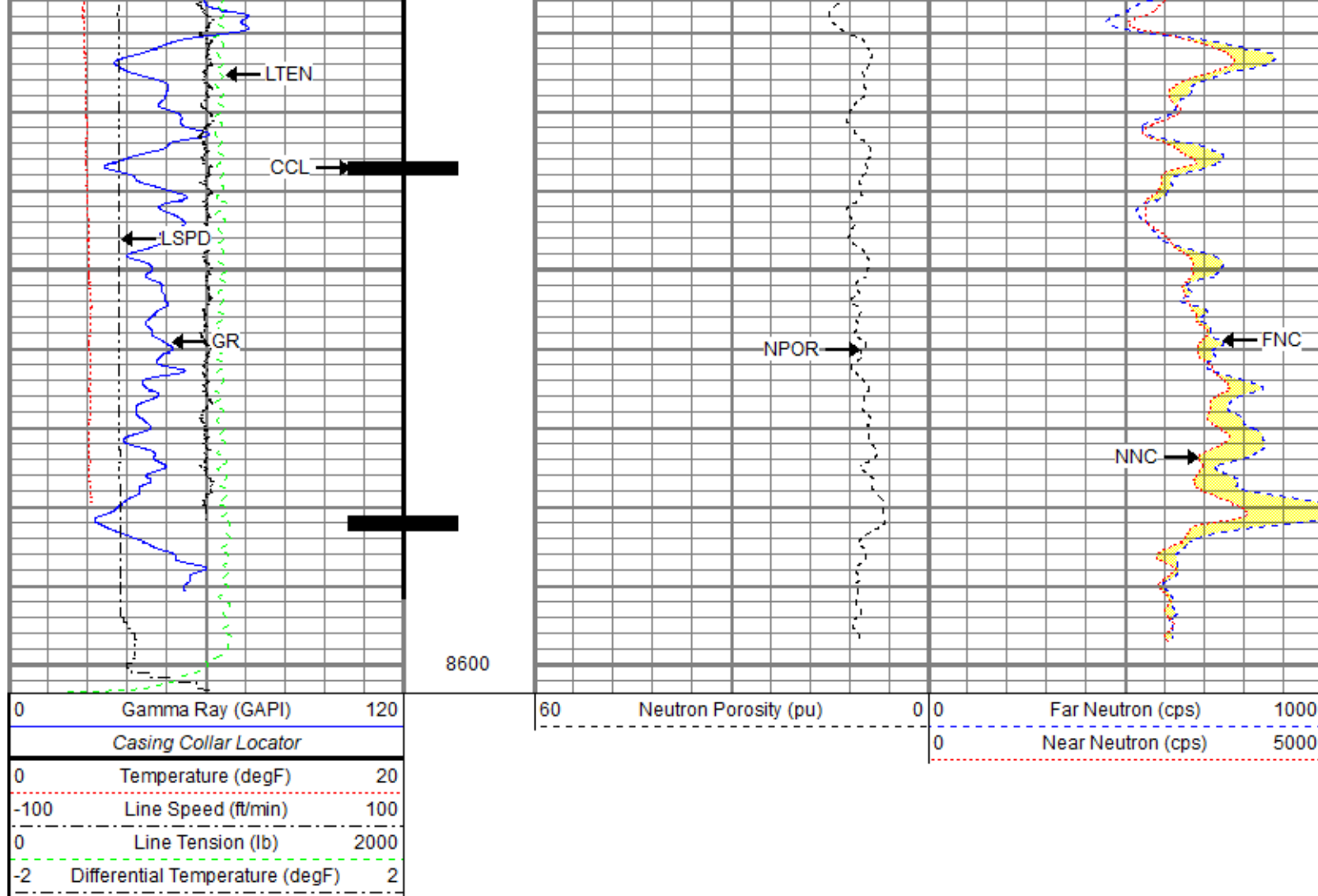








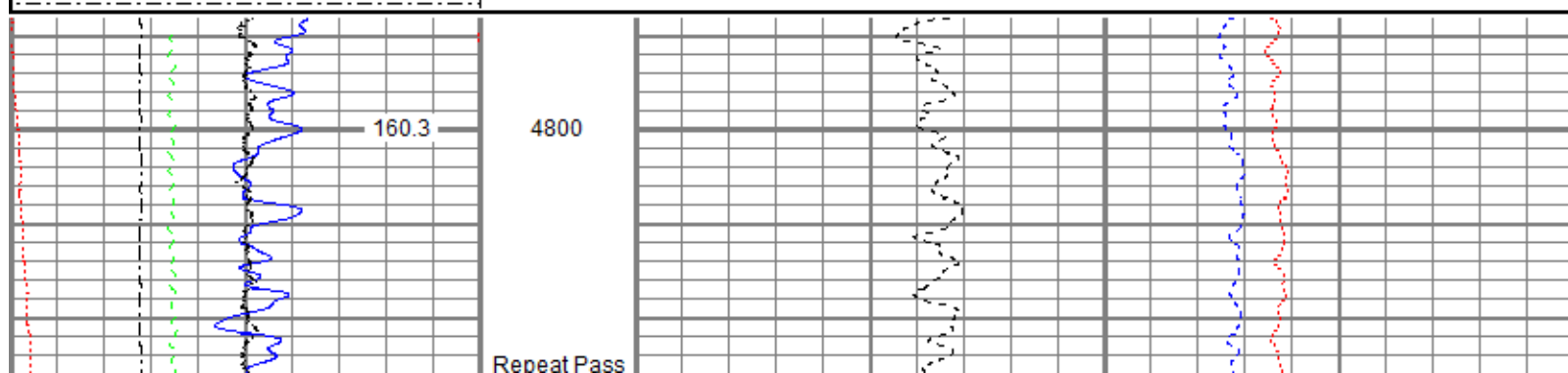
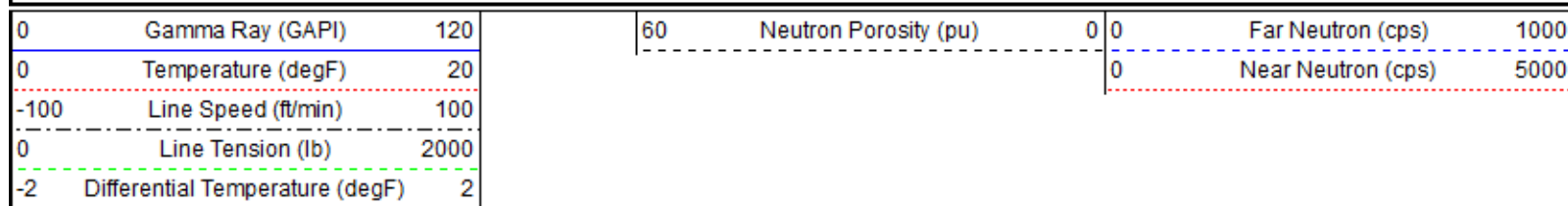


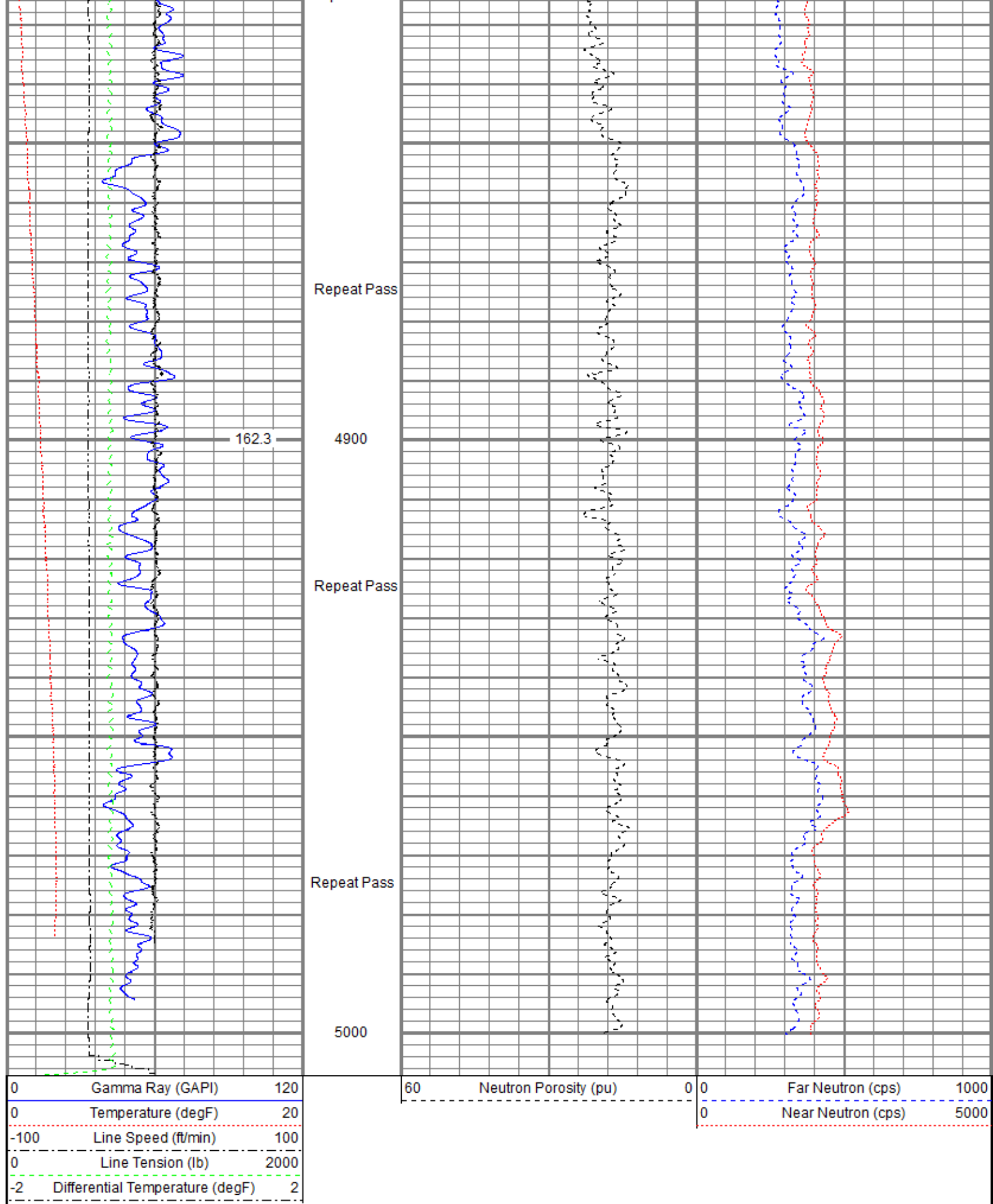


Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File: anadarko\0512349758_anadarko_mc 3-1hz_rbl_cnl_08-10-19_0 psi\0512349758_anadarko_mc 3-1hz_rbl_cnl_08-10-19_0 p
 Dataset Pathname: Repeat.4
 Presentation Format: ros_cnl_probe
 Dataset Creation: Mon Aug 12 14:20:21 2019
 Charted by: Depth in Feet scaled 1:240





			Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck			
			Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
TEMP	22.08					
WVFS8	19.84		Probe Radii-2750 RBT (FW1308-091) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
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 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
CCL\$2	11.83					
CCL\$1	11.83					
GR	10.50		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
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: 0512349758_anadarko_mc 3-1hz_rbl_cnl_08-10-19_0 psi.db: field/well/run1/Main.15 Total length: 28.90 ft Total weight: 283.60 lb O.D.: 2.75 in						

Calibration Report

Database File: c:\programdata\warrior\data\anadarko\0512349758_anadarko_mc 3-1hz_rbl_cnl_08-10-19_0 psi\0512349758_anadarko_mc 3-

Compensated Neutron Calibration Report						
Serial Number:			FW1308-020_A1483			
Tool Model:			2750 BL			
CALIBRATION			Mon Oct 01 11:29:38 2018			
Detector		Readings		Target		Normalization
Short Space		3241.60	cps	0.00	cps	1.0000
Long Space		452.04	cps	0.00	cps	1.0000
PRE-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps		pu	pu
2)	Short Space		cps			
	Long Space		cps		pu	
3)	Short Space		cps			
	Long Space		cps		pu	
POST-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps		pu	pu
2)	Short Space		cps			
	Long Space		cps		pu	pu
3)	Short Space		cps			
	Long Space		cps		pu	pu

Gamma Ray Calibration Report				
Serial Number:		FW1810-001		
Tool Model:		2750 6PB		
Performed:		Sat Nov 10 12:22:37 2018		
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:		FW1308-091		
Tool Model:		2750 RBT		
Calibration Casing Diameter:		5.500	in	
Calibration Depth:		-28.138	ft	

Master Calibration, performed (Derived):						
		Raw (v)		Calibrated (mv)		Results
		Zero	Cal	Zero	Cal	Gain Offset
3'		-0.001	0.487	0.800	71.921	145.715 0.992
CAL		0.590	0.591			
5'		-0.022	0.467	0.800	71.921	145.500 3.975
SUM						

SUM						
S1	-0.004	0.498	0.000	100.000	199.398	0.704
S2	-0.025	0.497	0.000	100.000	191.502	4.827
S3	-0.043	0.496	0.000	100.000	185.571	7.997
S4	-0.031	0.491	0.000	100.000	191.566	5.958
S5	-0.011	0.492	0.000	100.000	199.111	2.115
S6	0.000	0.492	0.000	100.000	203.255	-0.079
S7	0.000	0.493	0.000	100.000	203.008	-0.010
S8	0.000	0.504	0.000	100.000	198.393	-0.077

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.590	0.591	1.000	0.000

Air Zero Calibration, performed Fri Aug 09 10:33:51 2019:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.007		0.000		0.000	
5'	0.008		0.000		-0.001	
SUM						
S1	0.003		0.000		0.000	
S2	0.006		0.000		0.000	
S3	0.006		0.000		0.001	
S4	0.006		0.000		0.001	
S5	0.006		0.000		-0.000	
S6	0.006		0.000		-0.000	
S7	0.006		0.000		-0.001	
S8	0.006		0.000		-0.000	

Temperature Calibration Report

Serial Number: FW1308-091
Tool Model: 2750 RBT
Performed: Mon Oct 01 11:32:16 2018

	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



Company: Kerr-McGee Oil & Gas Onshore, L.P.
Well: MC 3-1HZ
Field: Wattenberg
County: Weld
State: Colorado