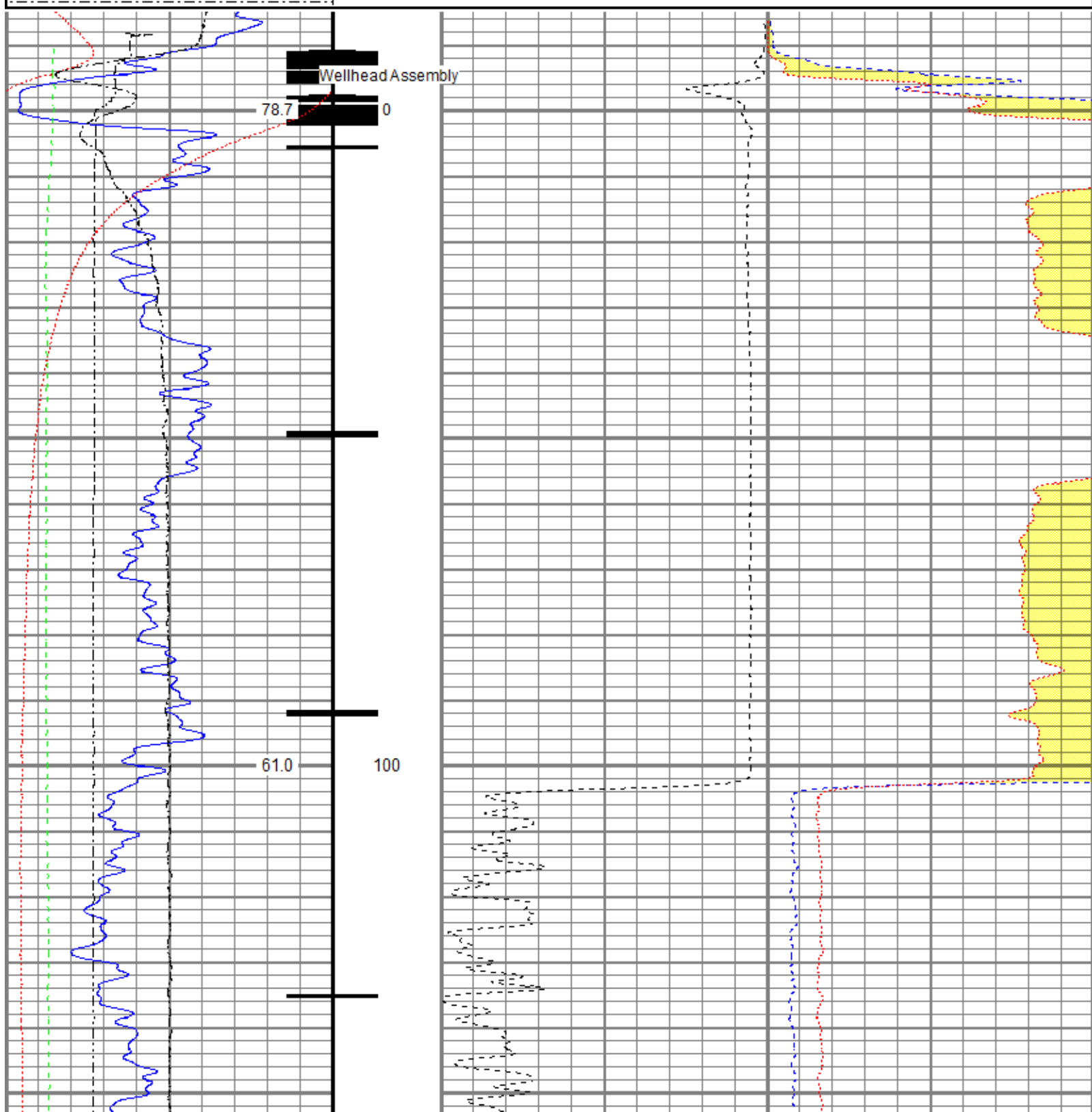


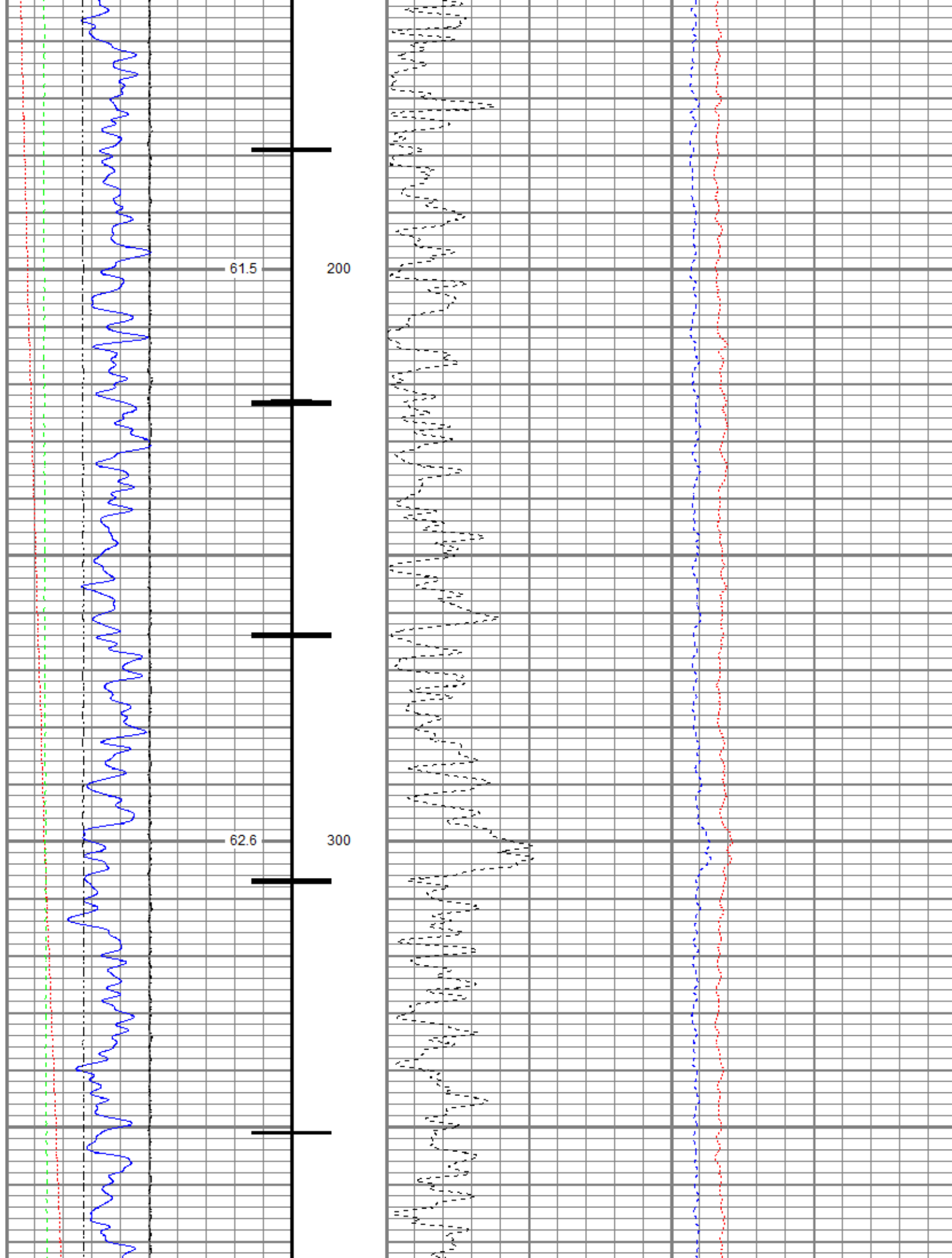


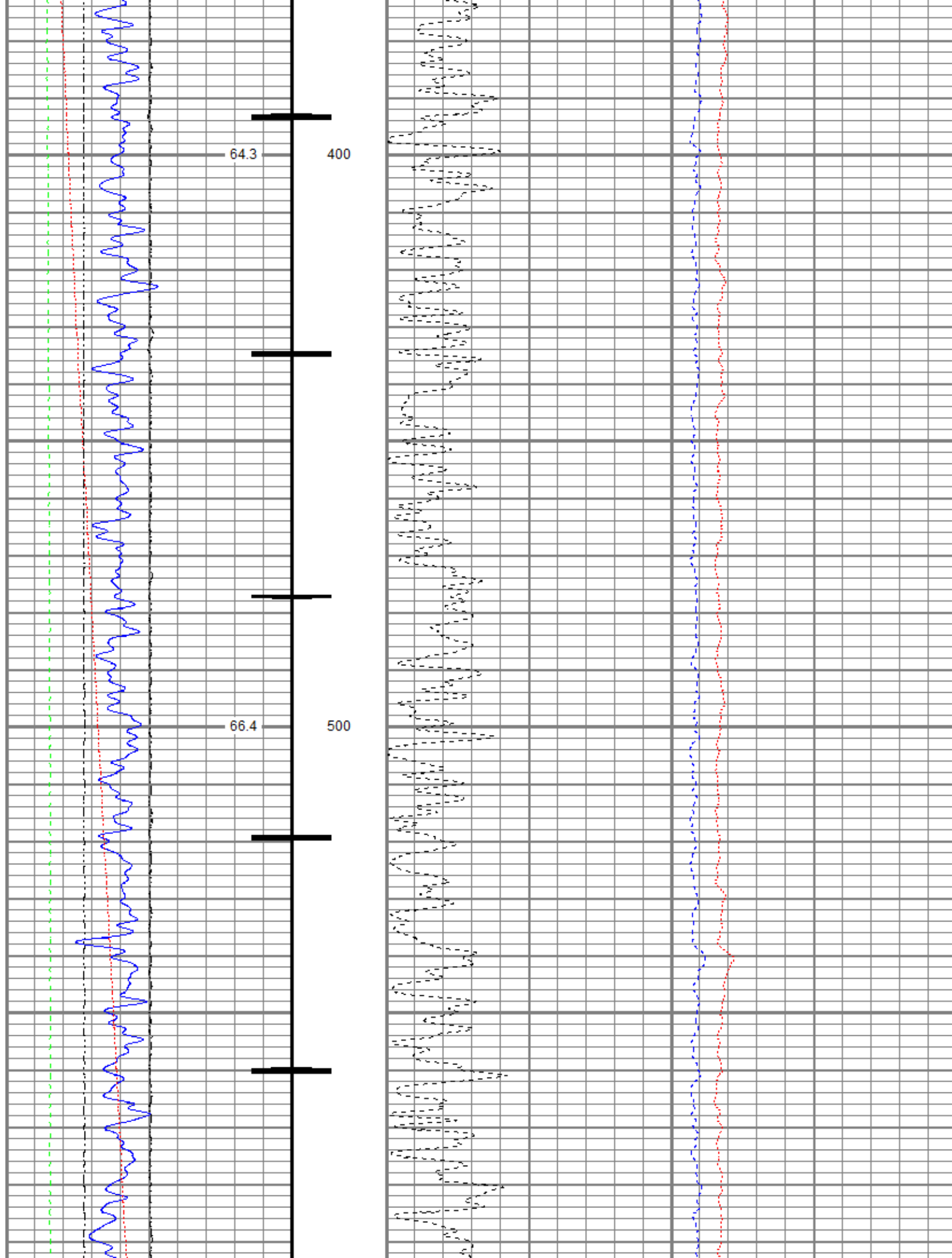
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible 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 Top at 6940 FT Adjusted -16 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 8048 FT with no debris 5.50" RBP Set @ 7020 FT Log ran from 6974 FT to surface Recorded with 0 PSI Surface Induced Pressure Logging tools were clean and free of debris upon completion of operations Thank you for choosing Reliance Oilfield Services, LLC!!

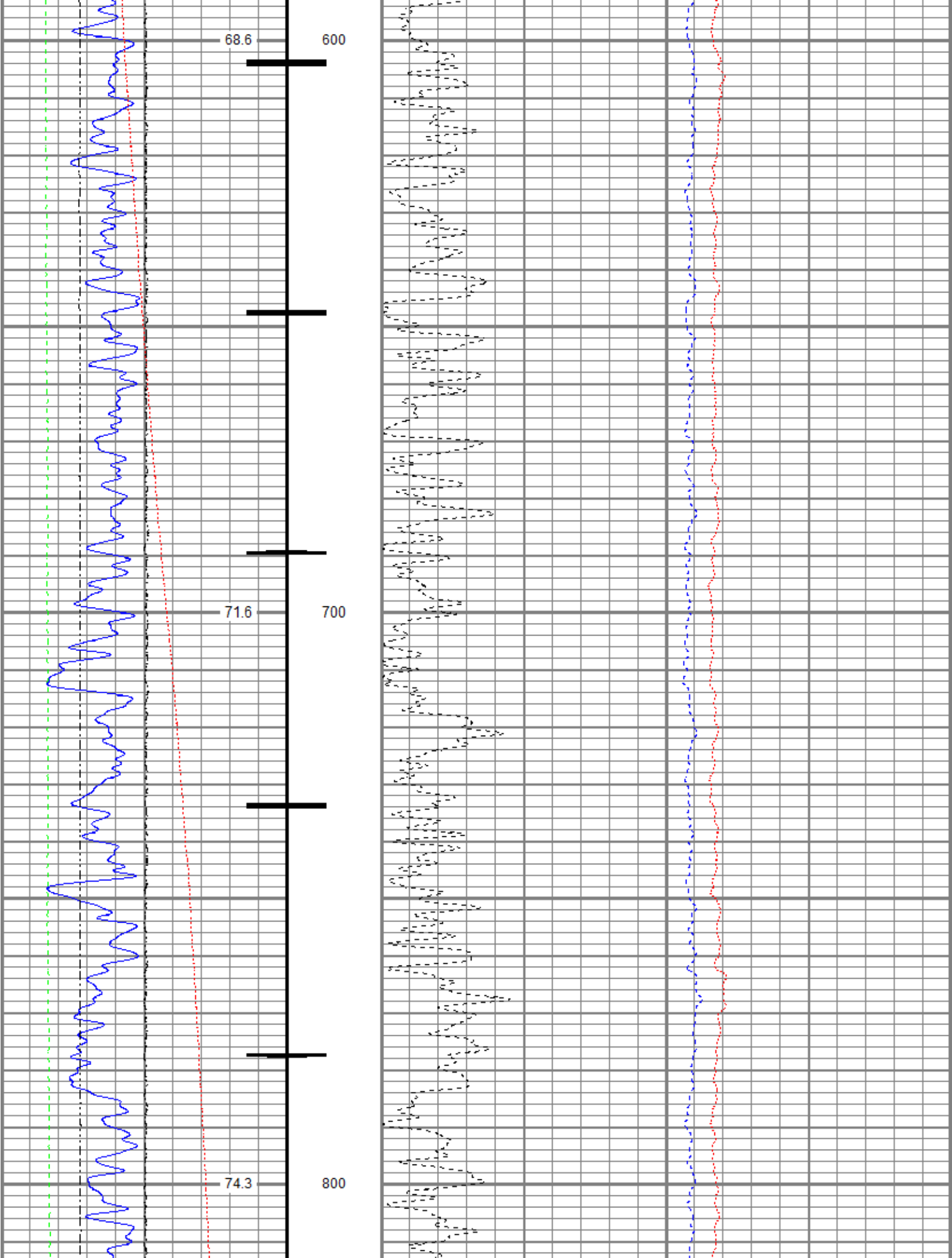
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Dataset Pathname	pass4.1
Presentation Format	ros_cnl_probe
Dataset Creation	Thu Jun 28 10:45:37 2018
Charted by	Depth in Feet scaled 1:240

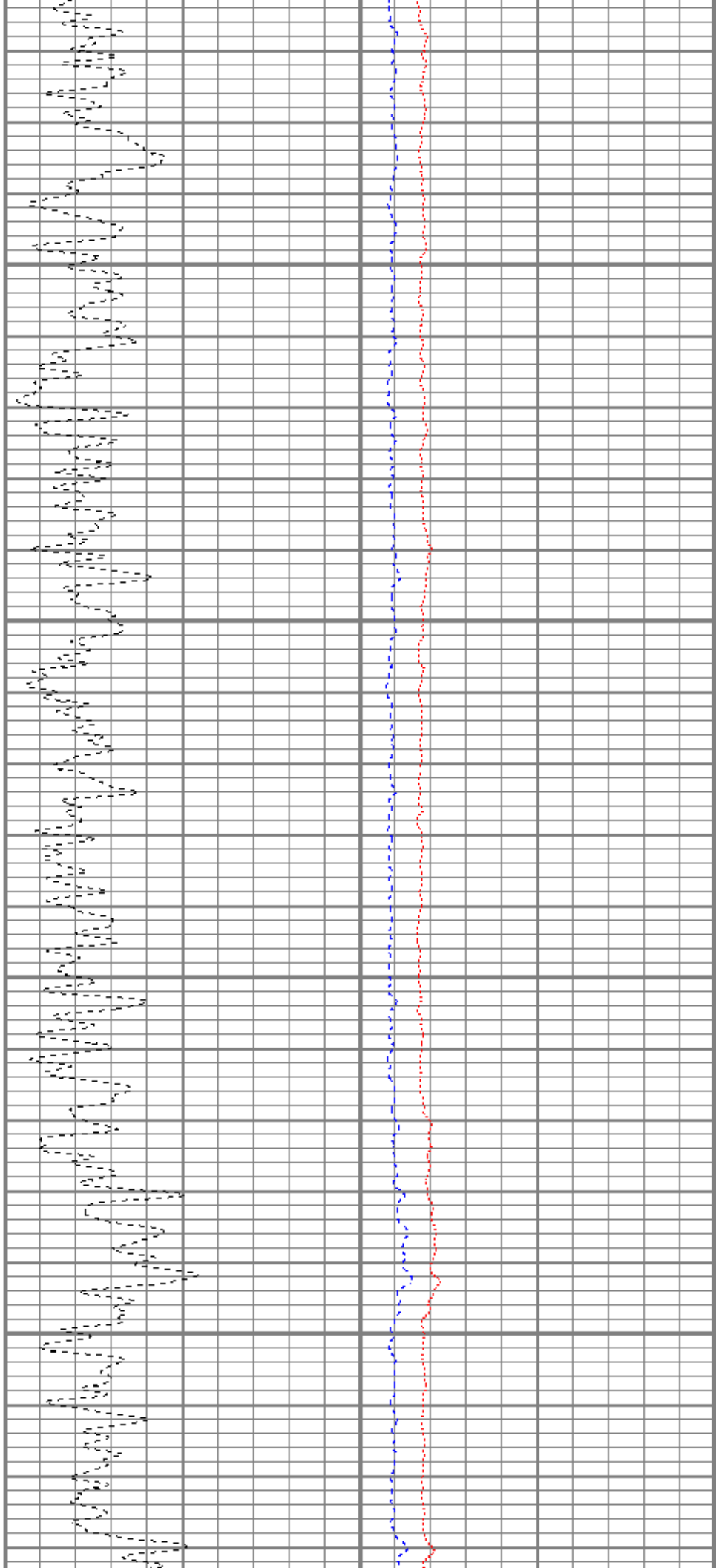
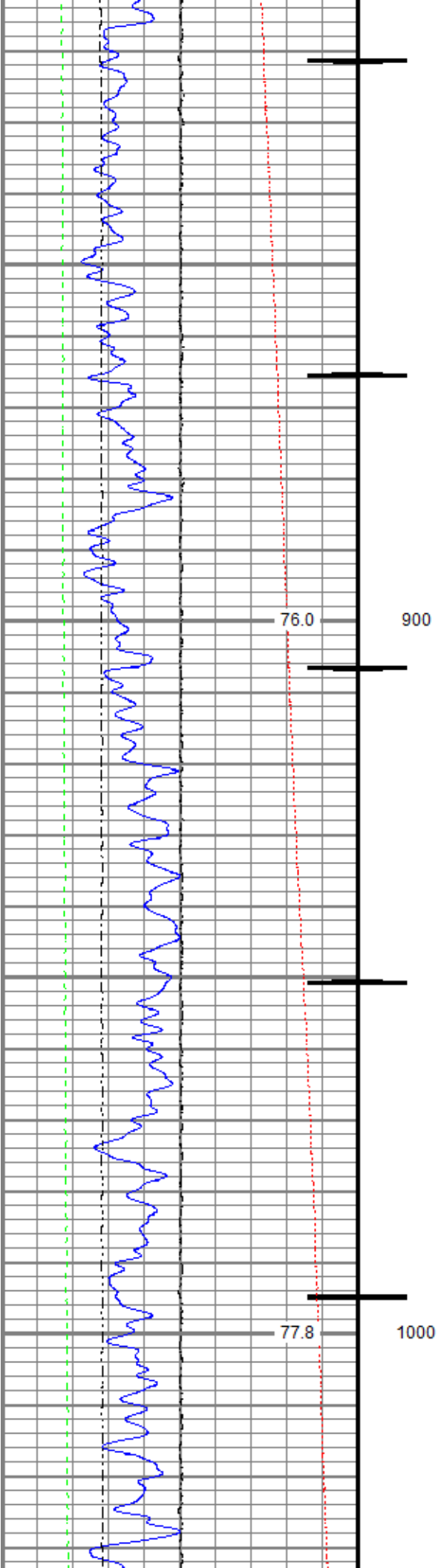
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Casing Collar Locator						0	Near Neutron (cps)	5000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

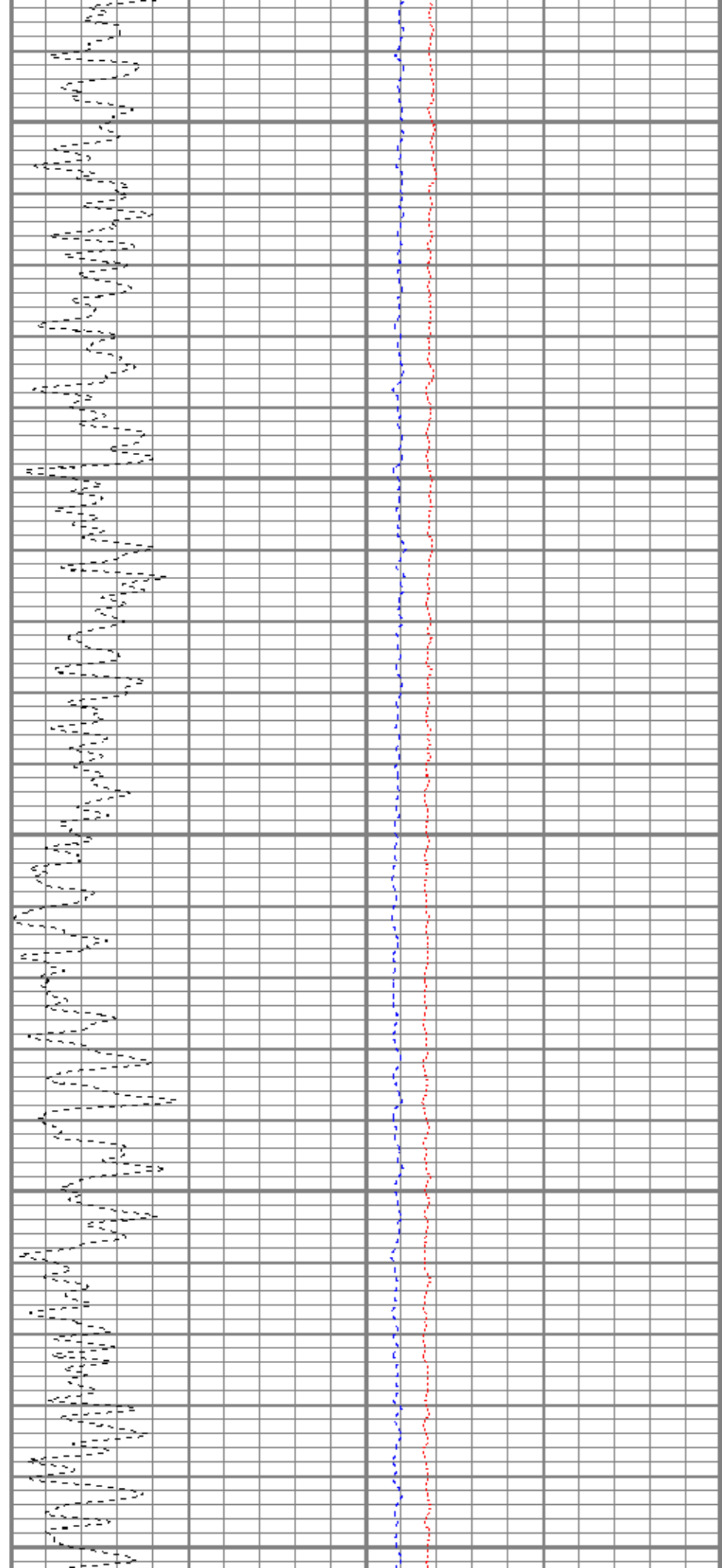
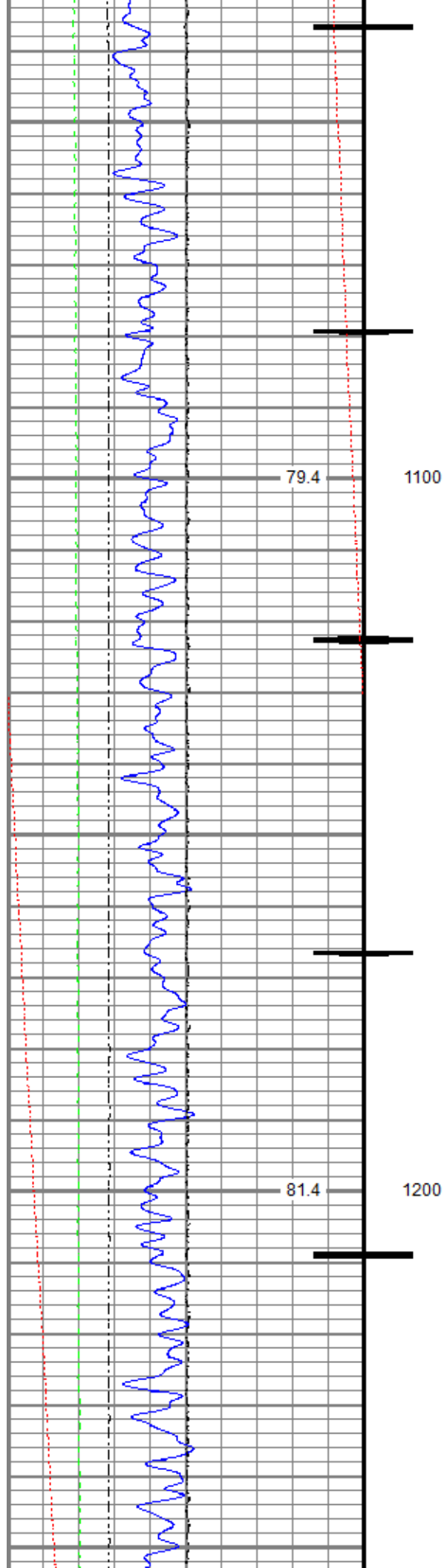


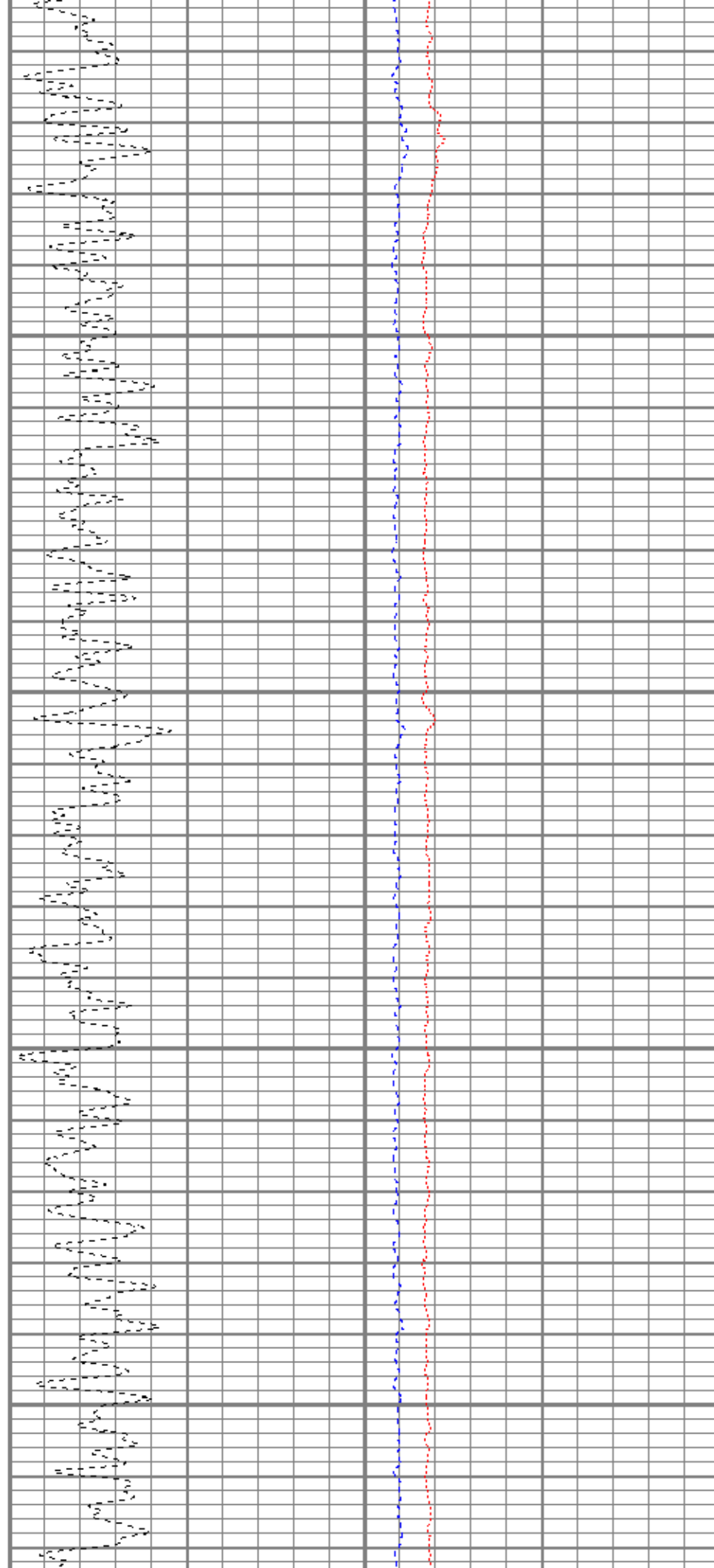
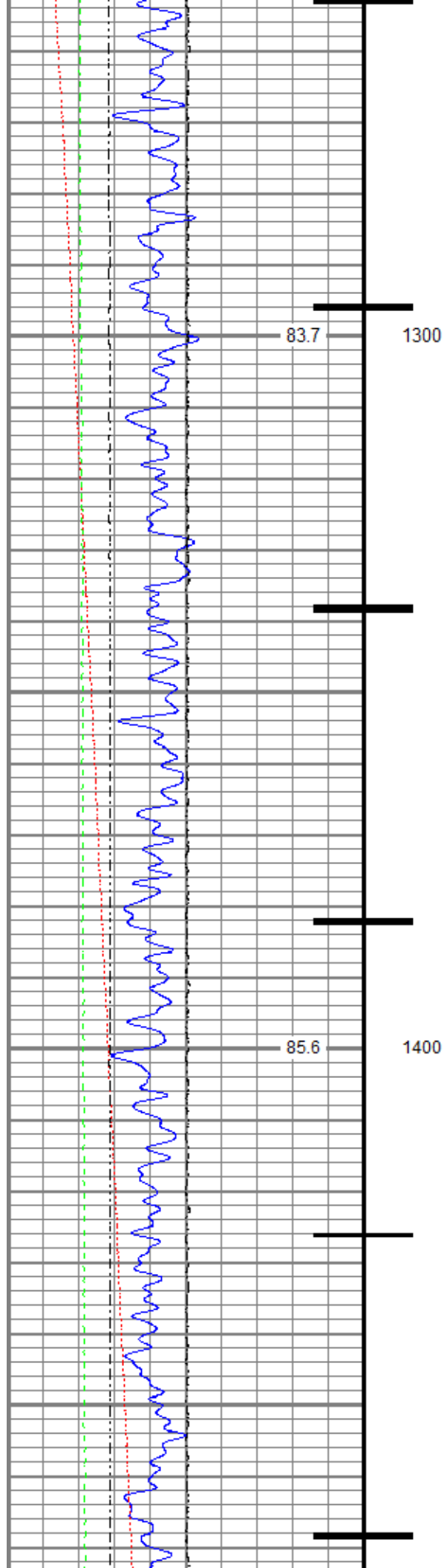


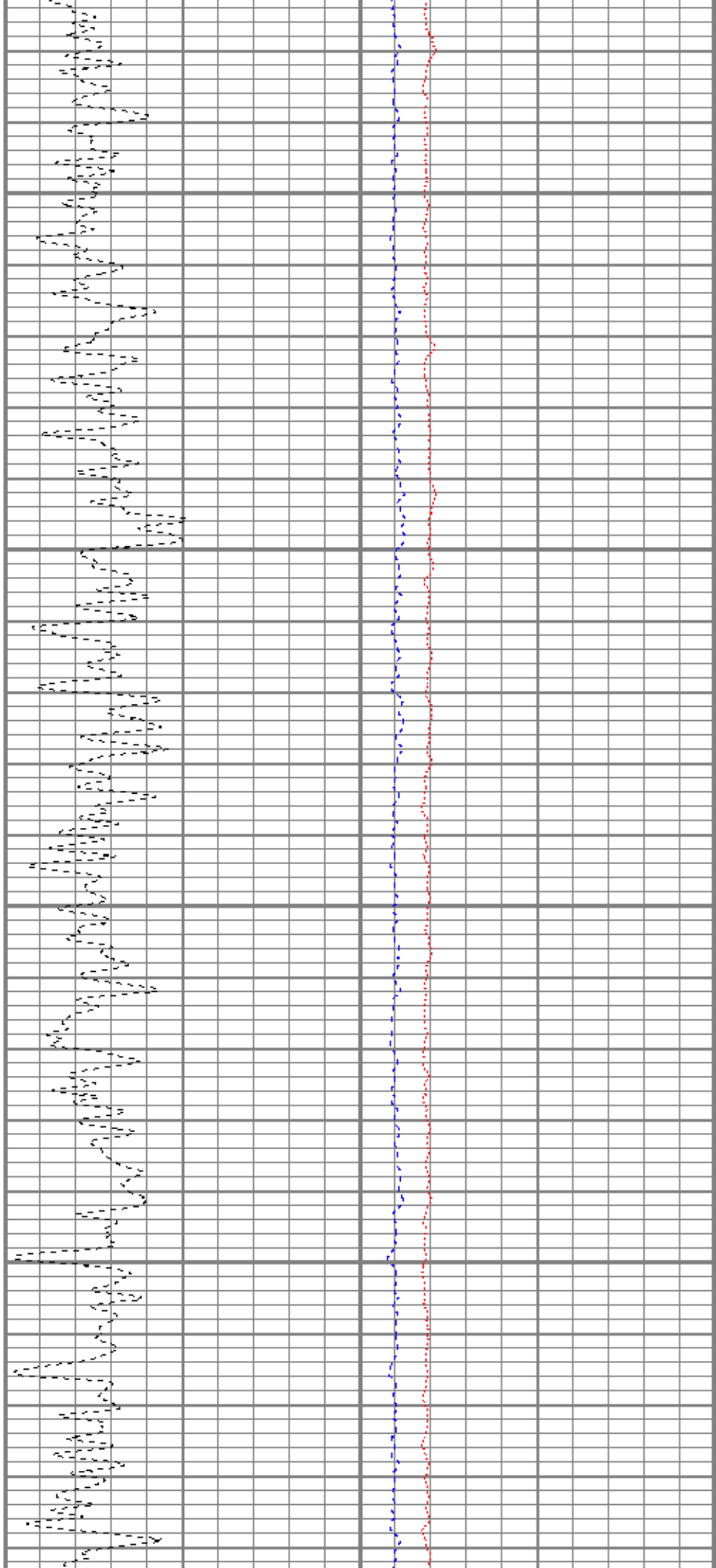
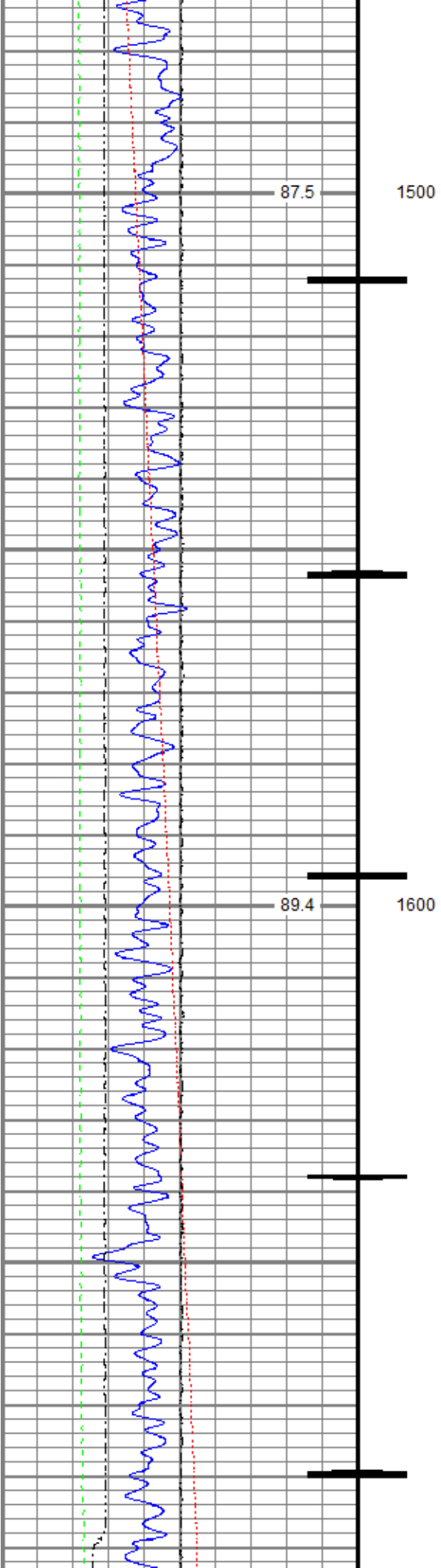


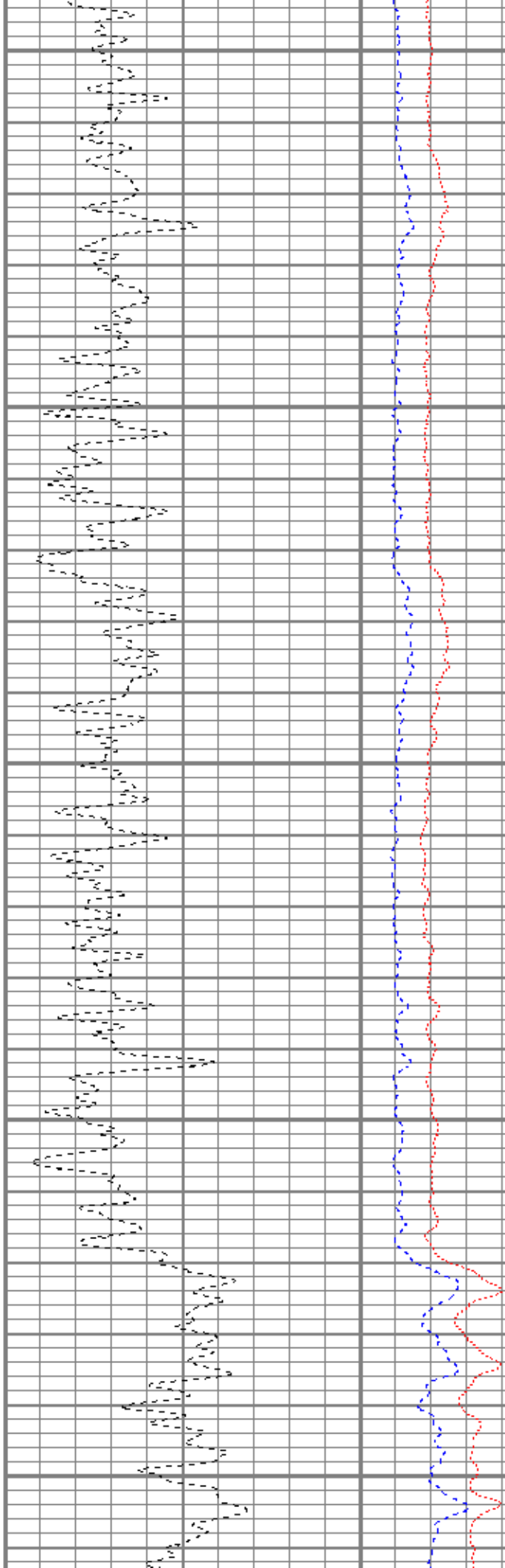
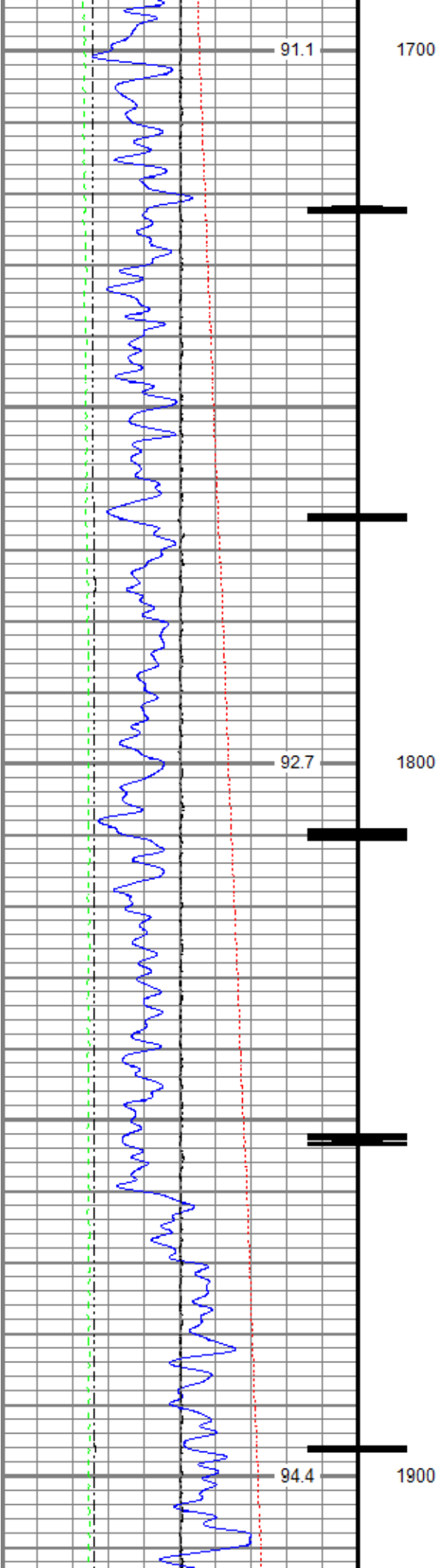


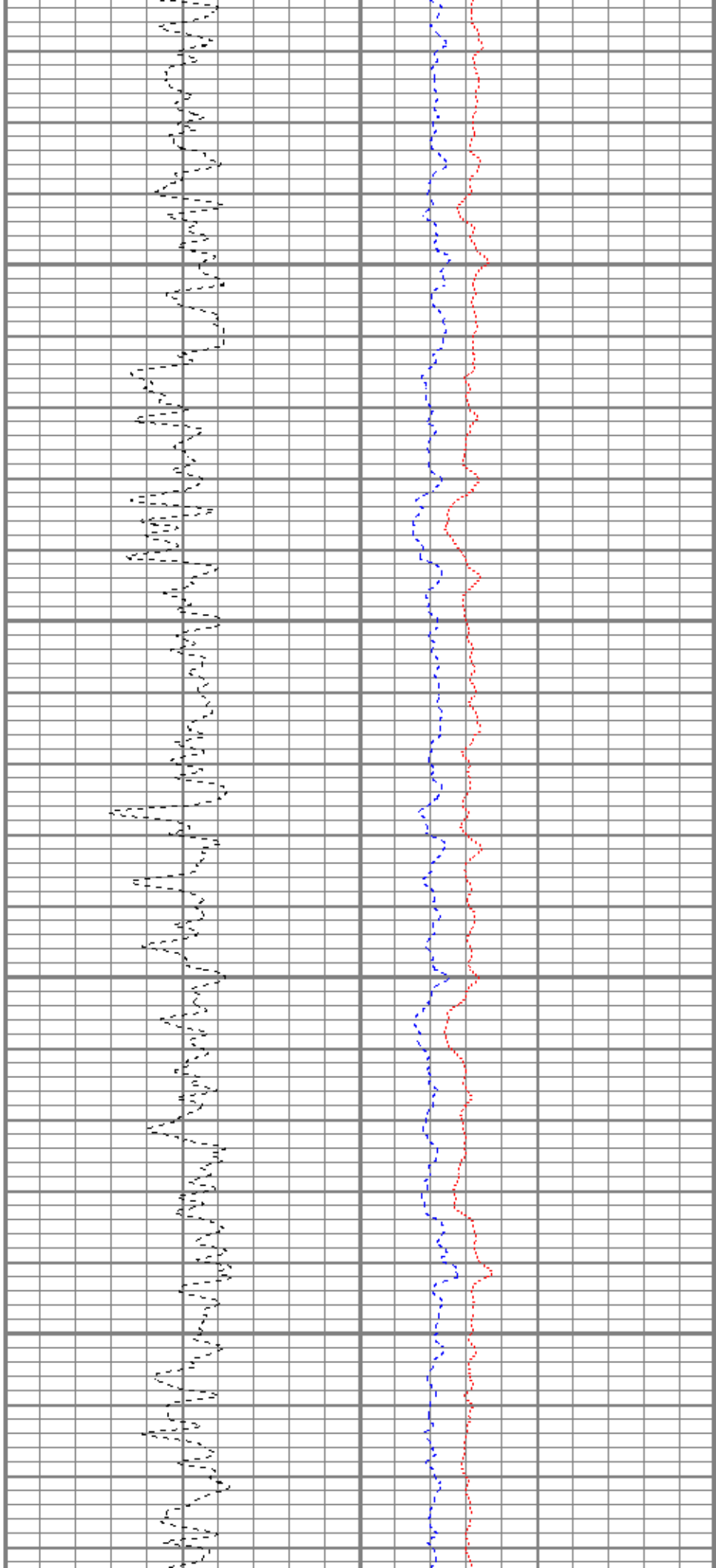
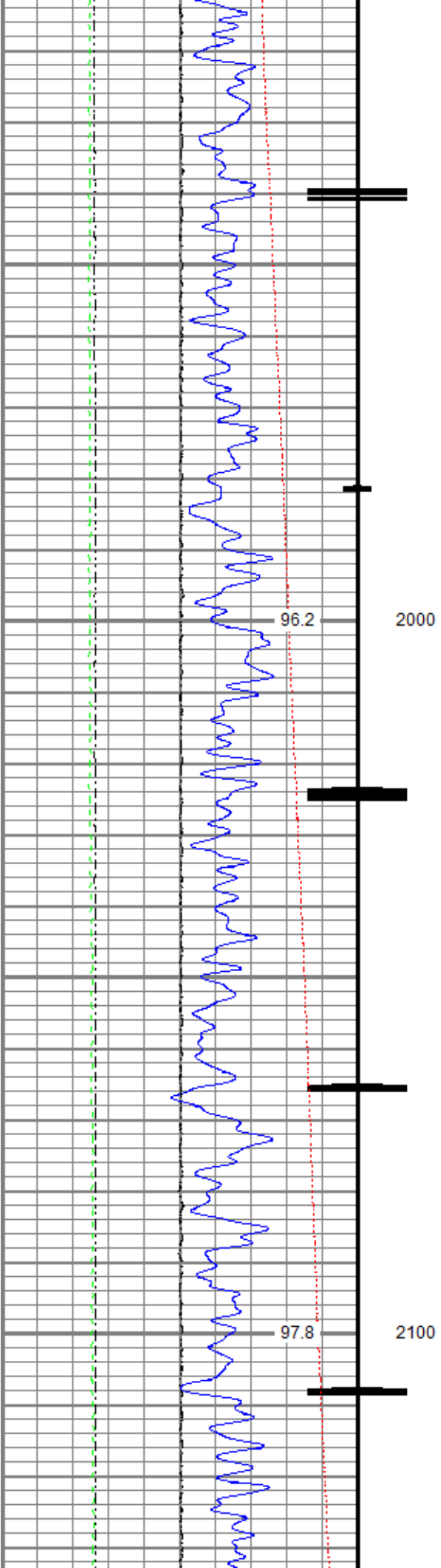


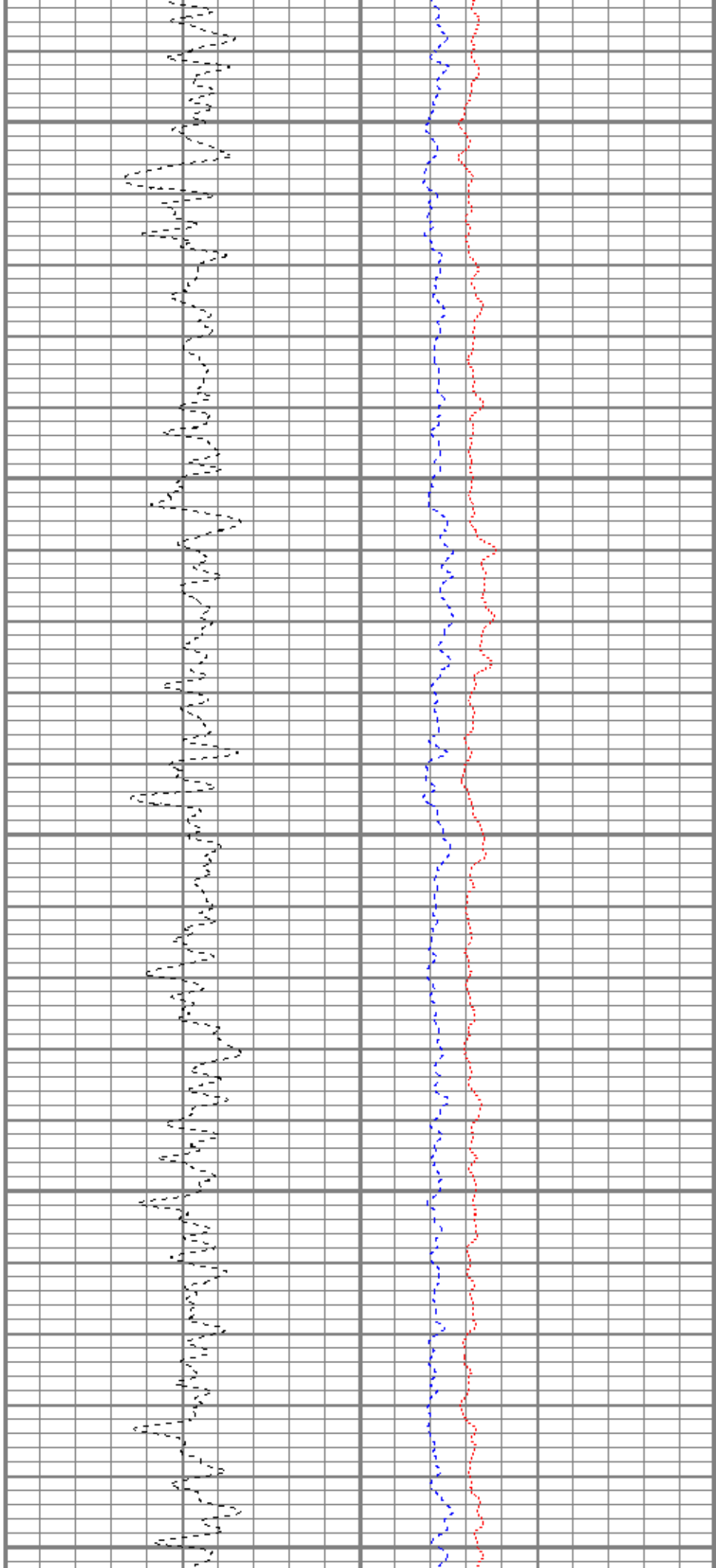
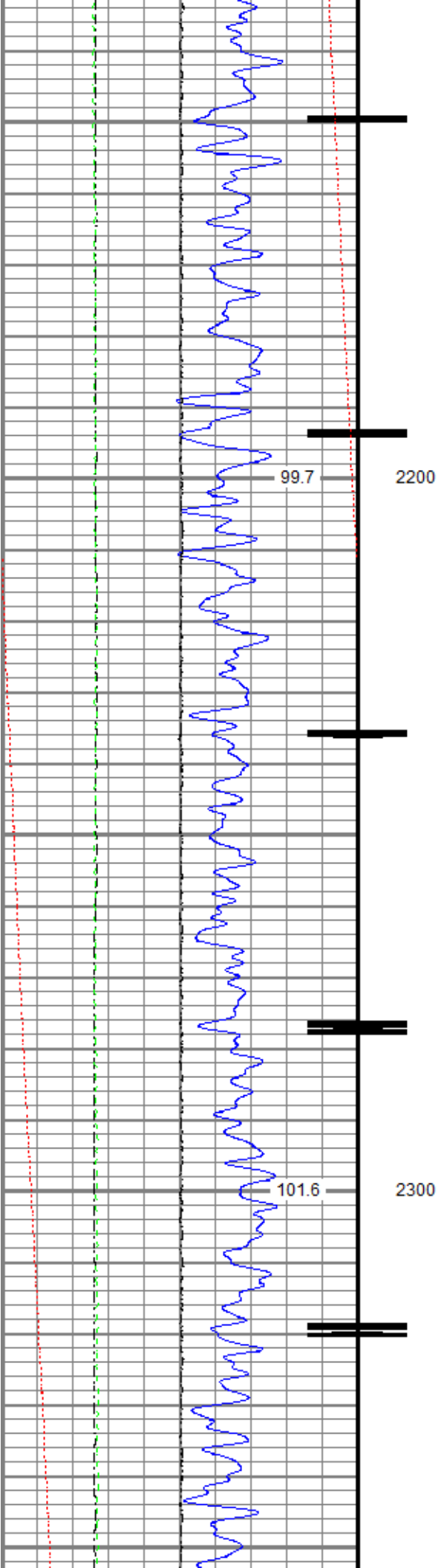


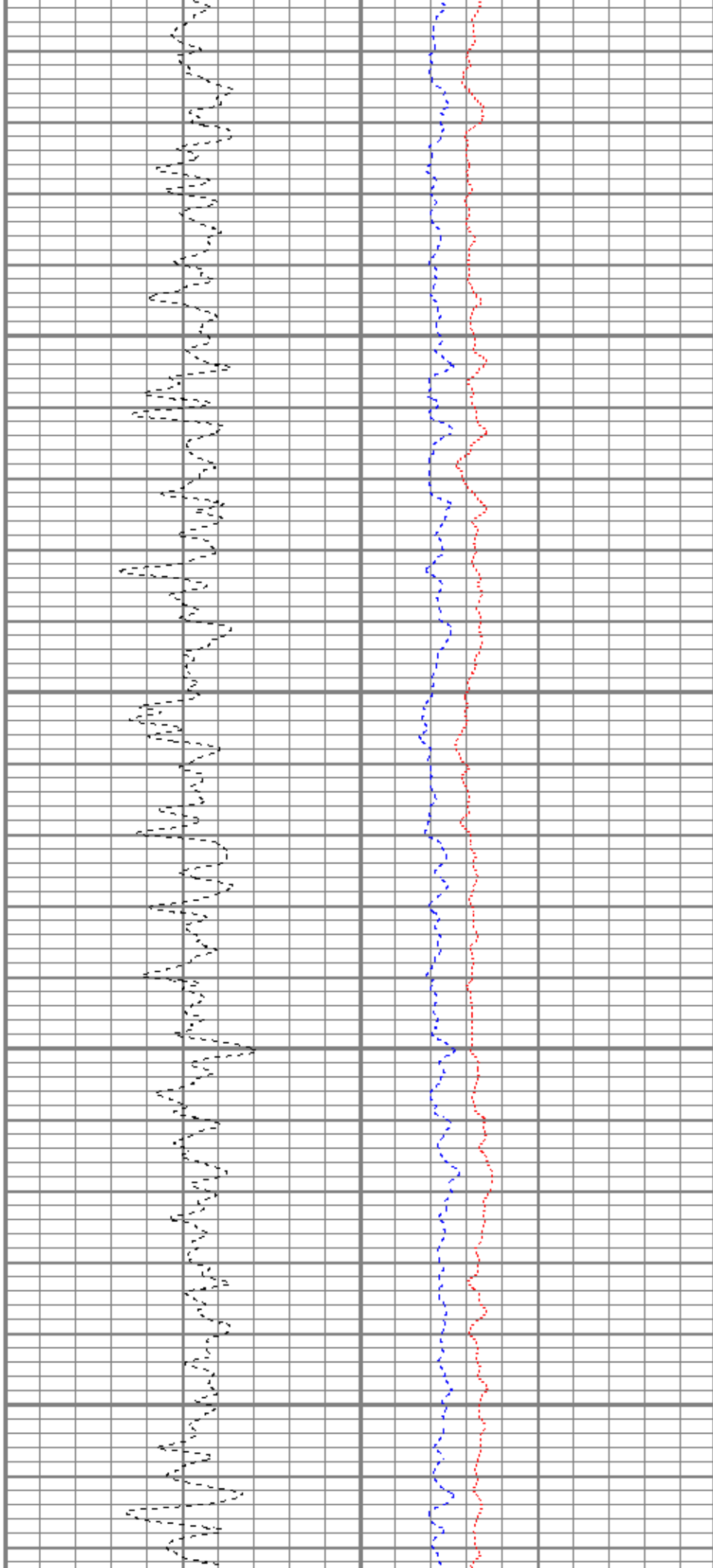
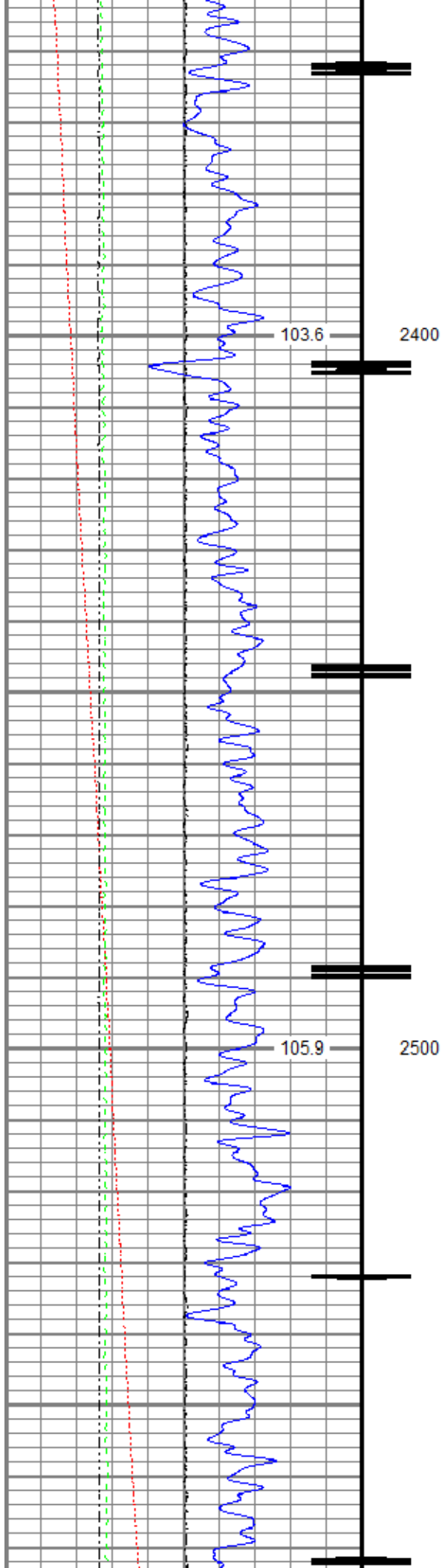


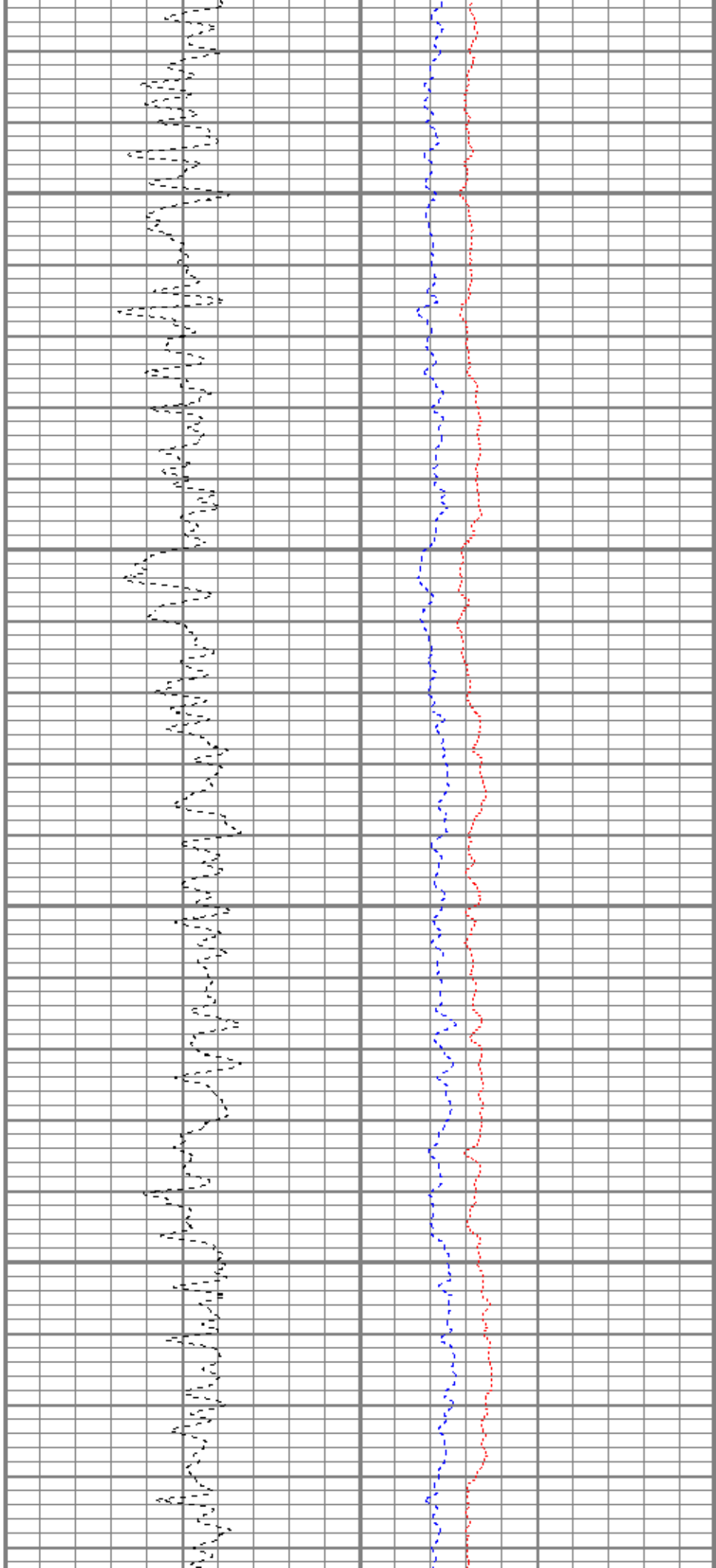
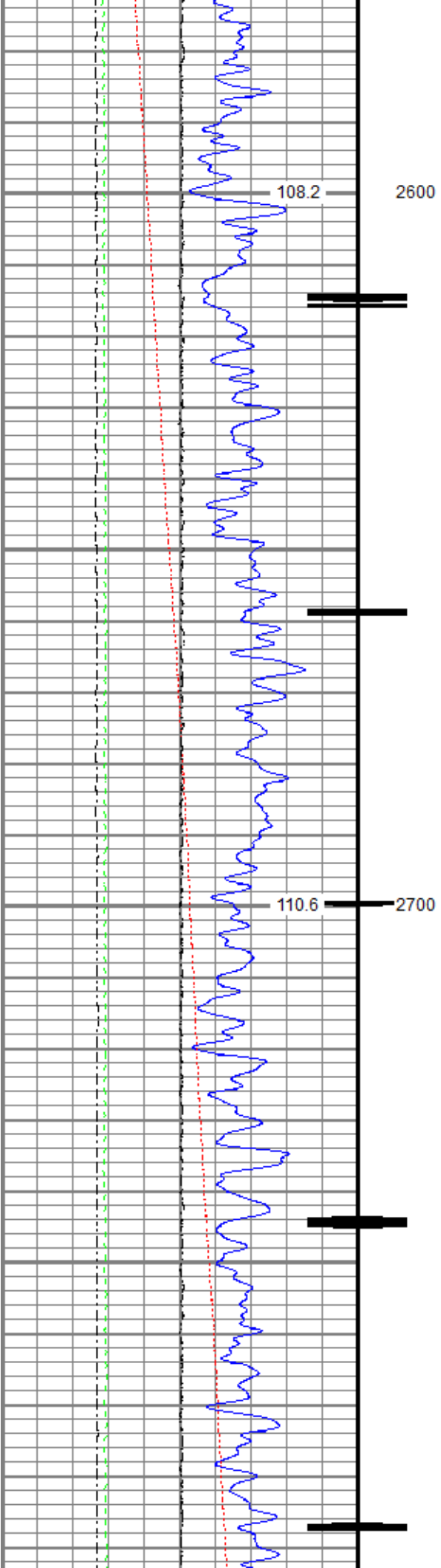


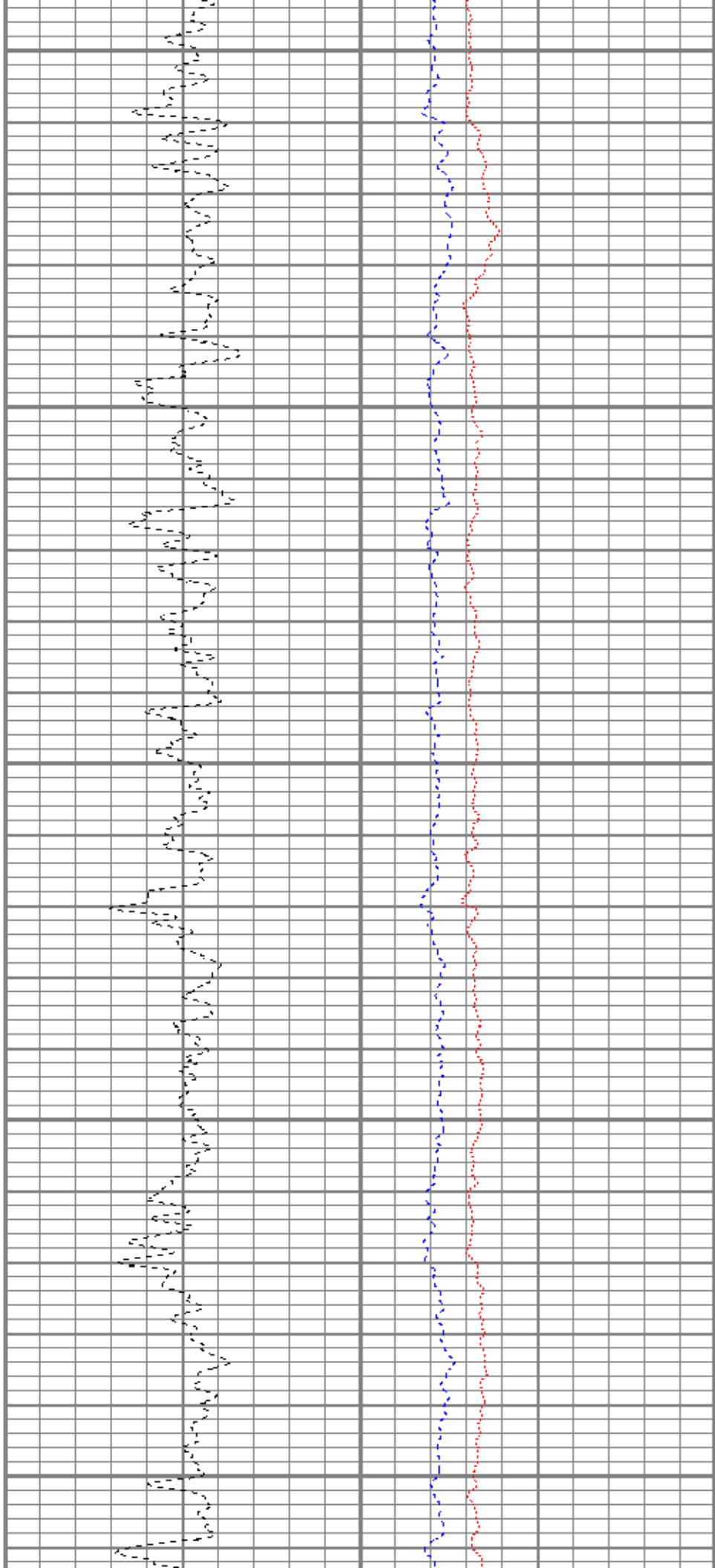
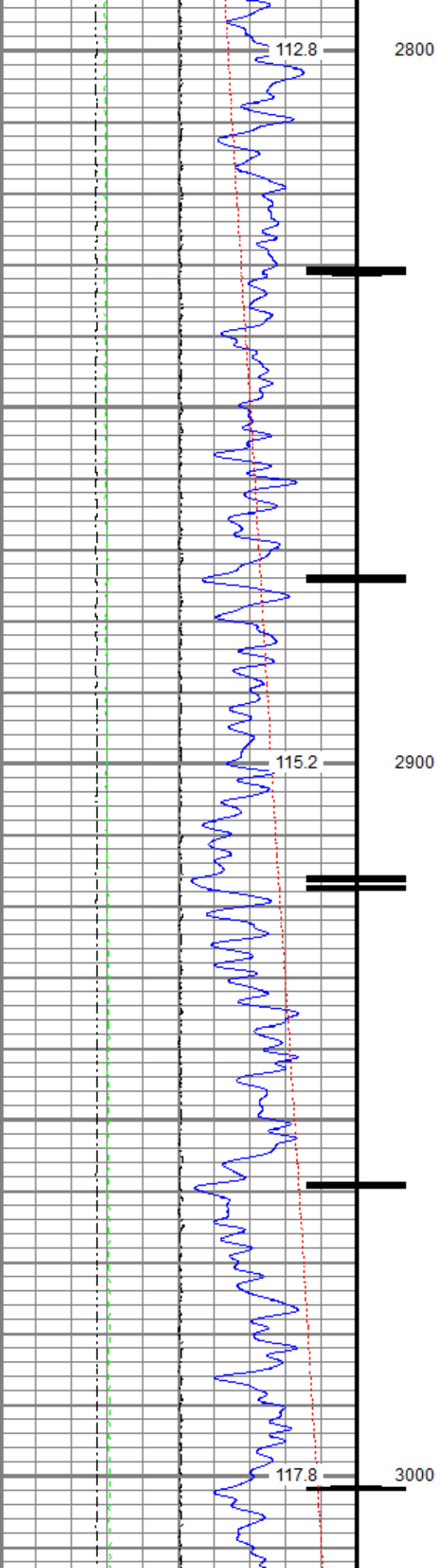


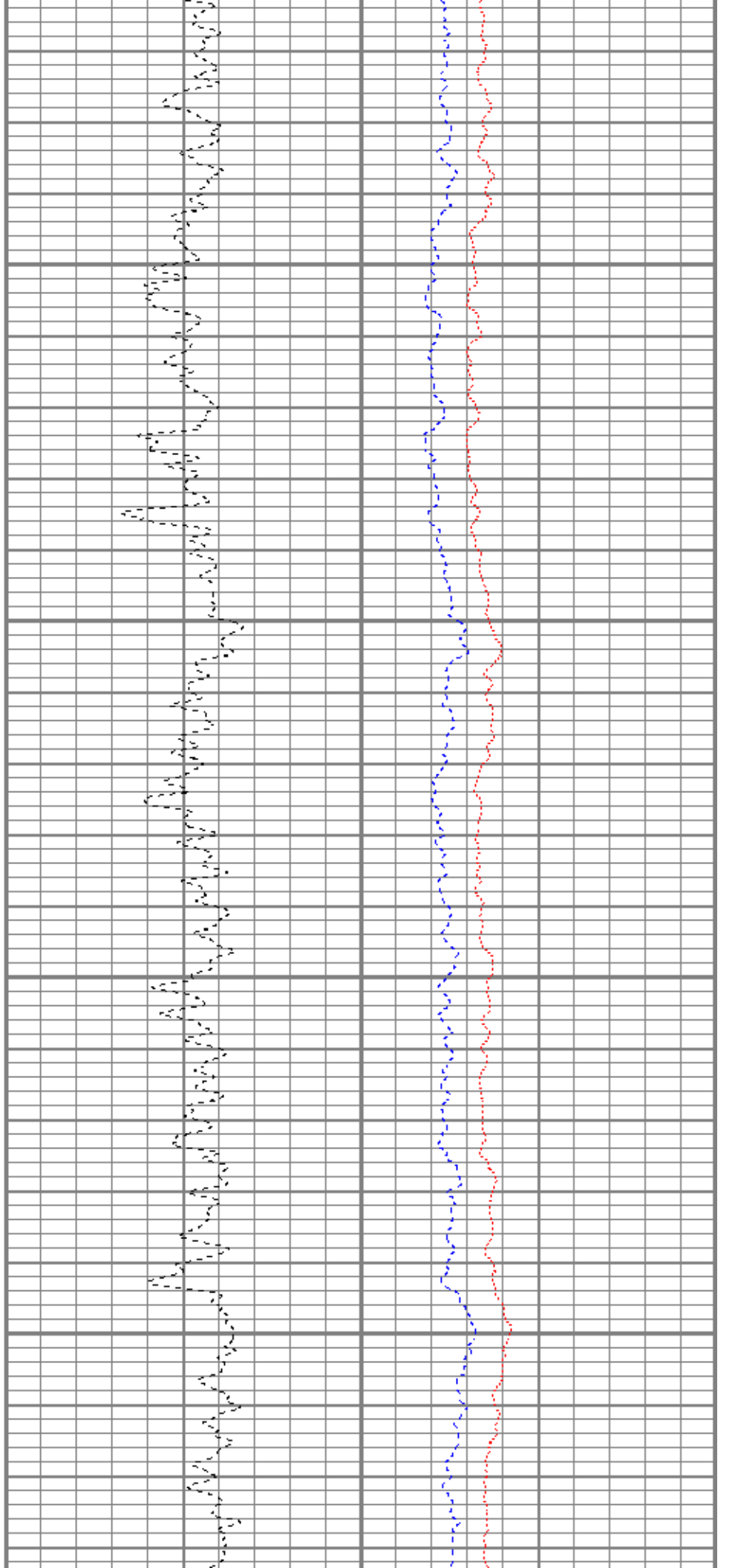
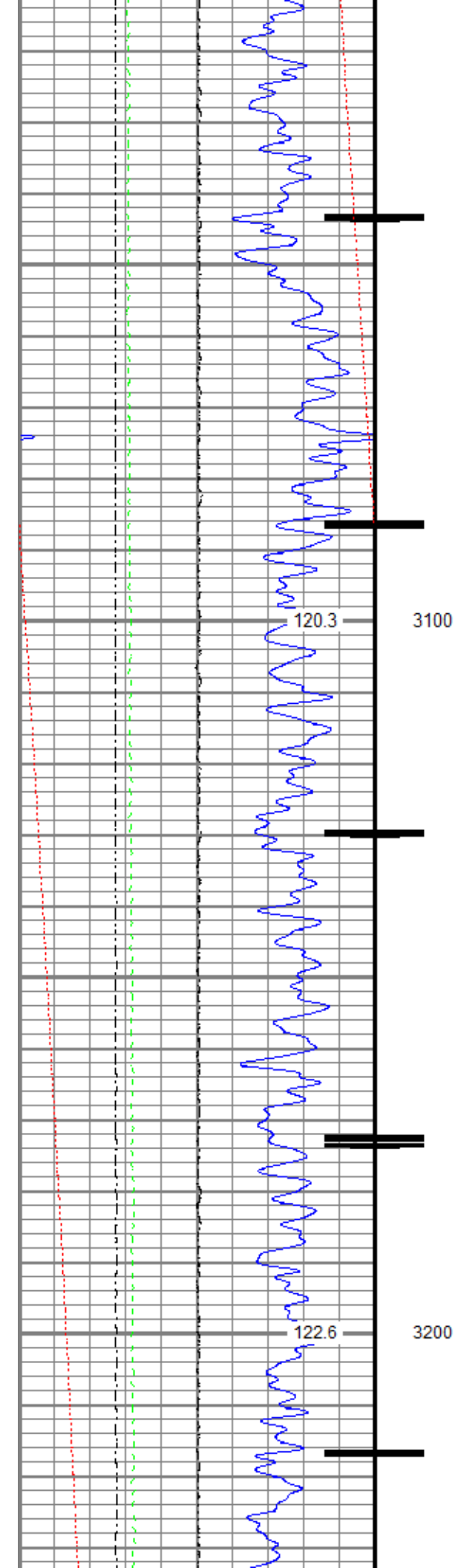


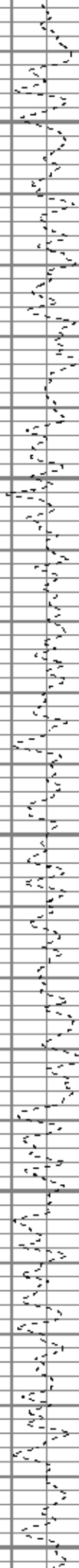
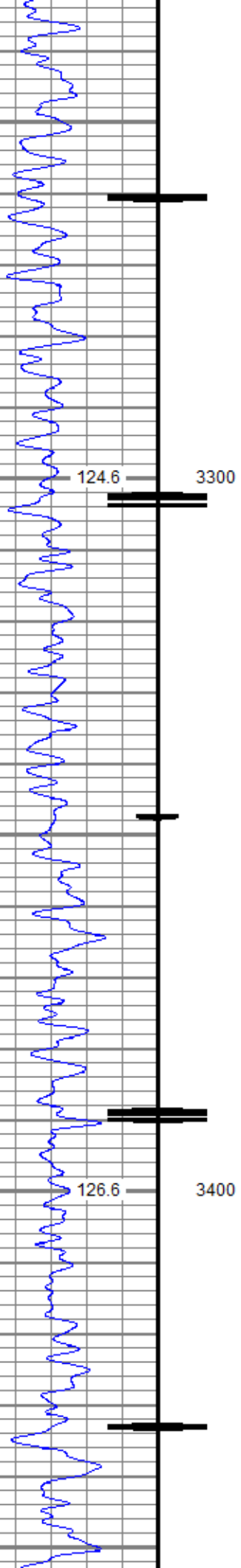


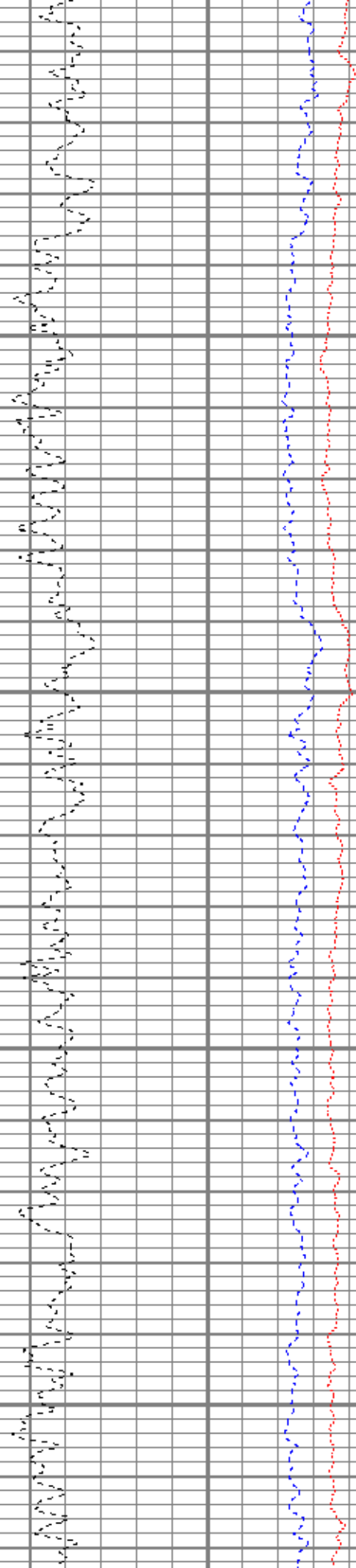
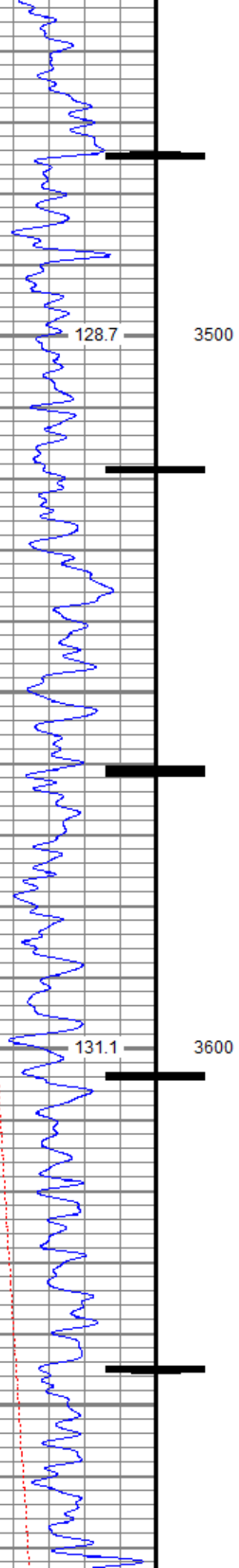


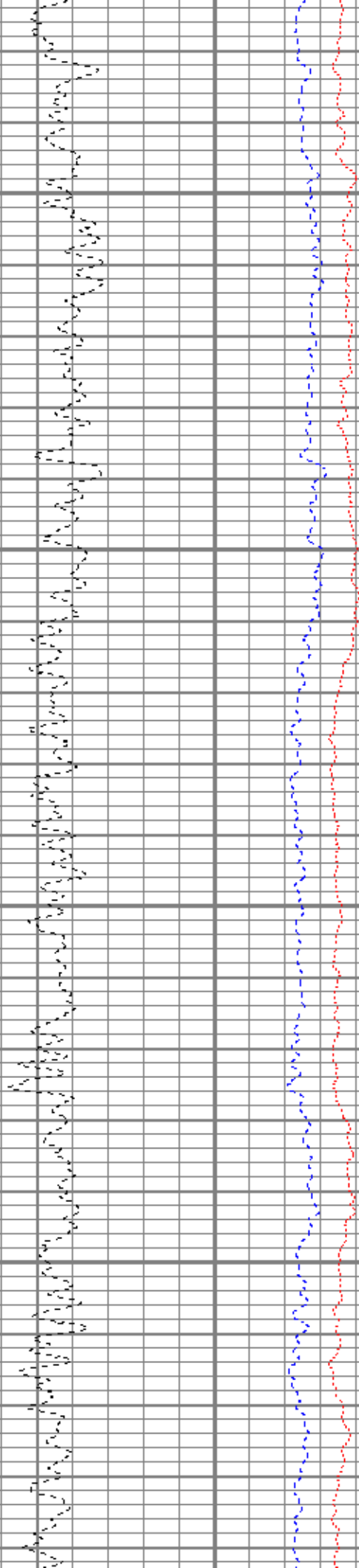
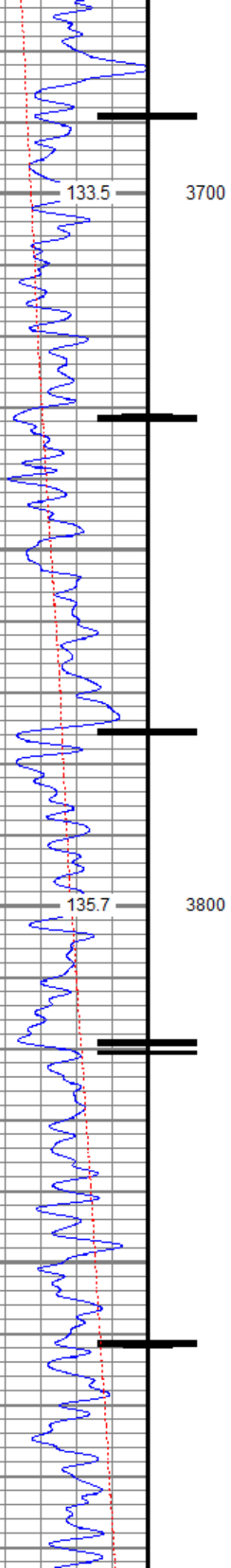


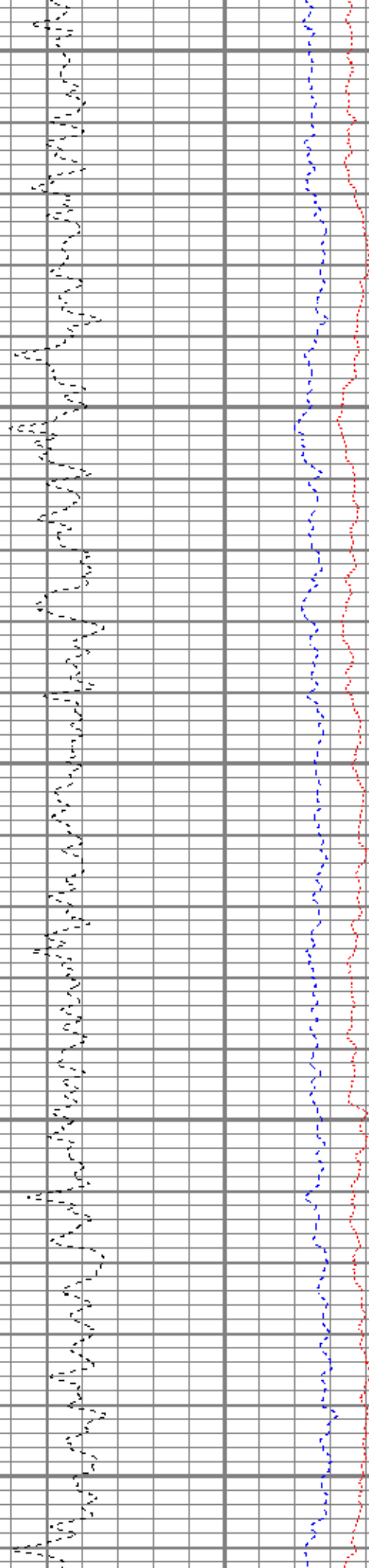
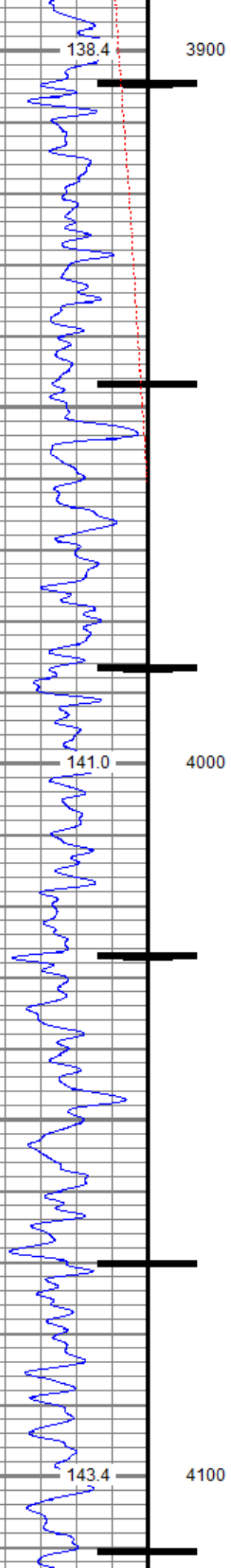


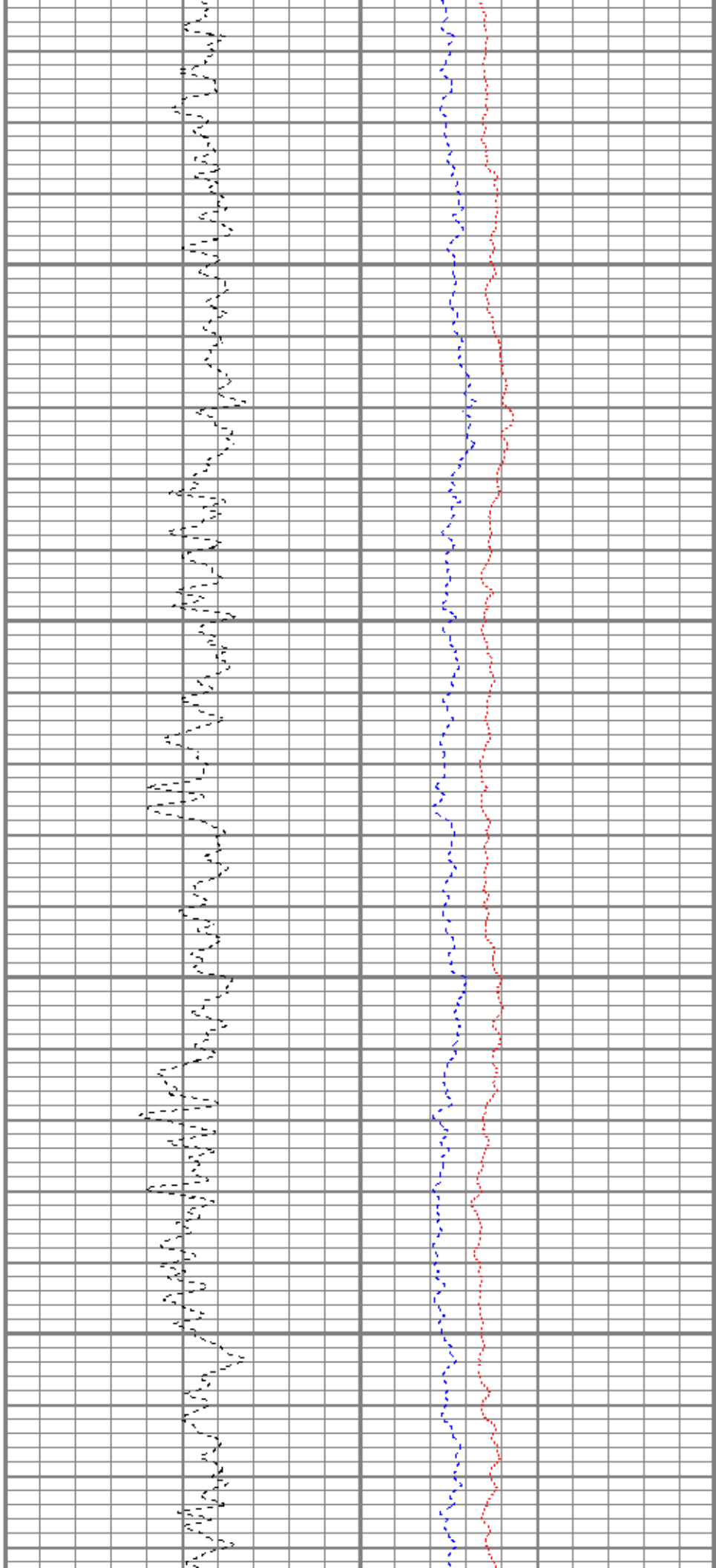
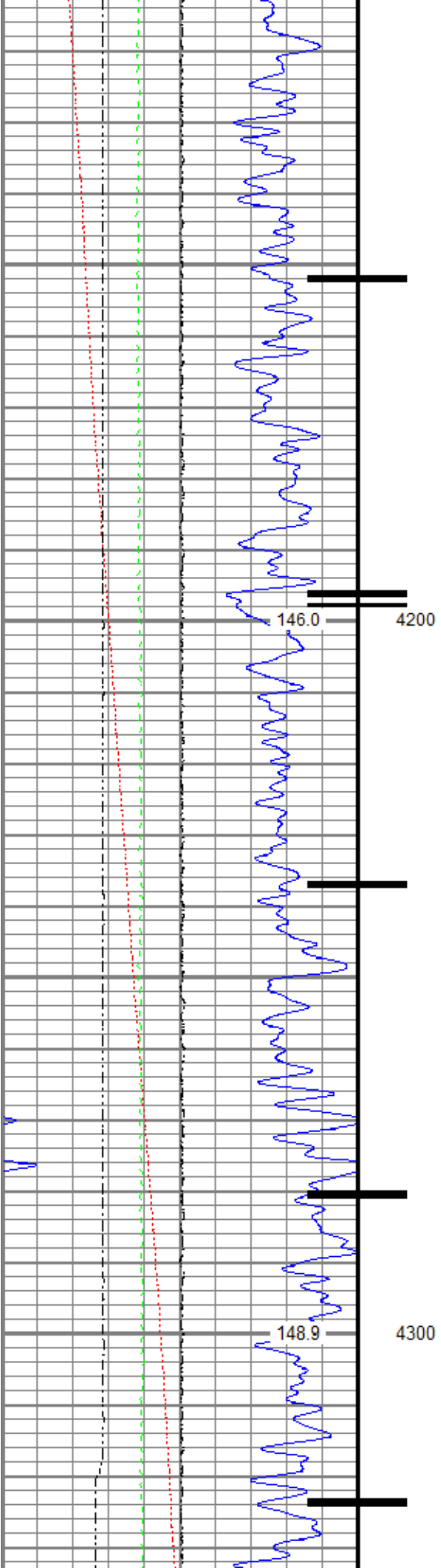


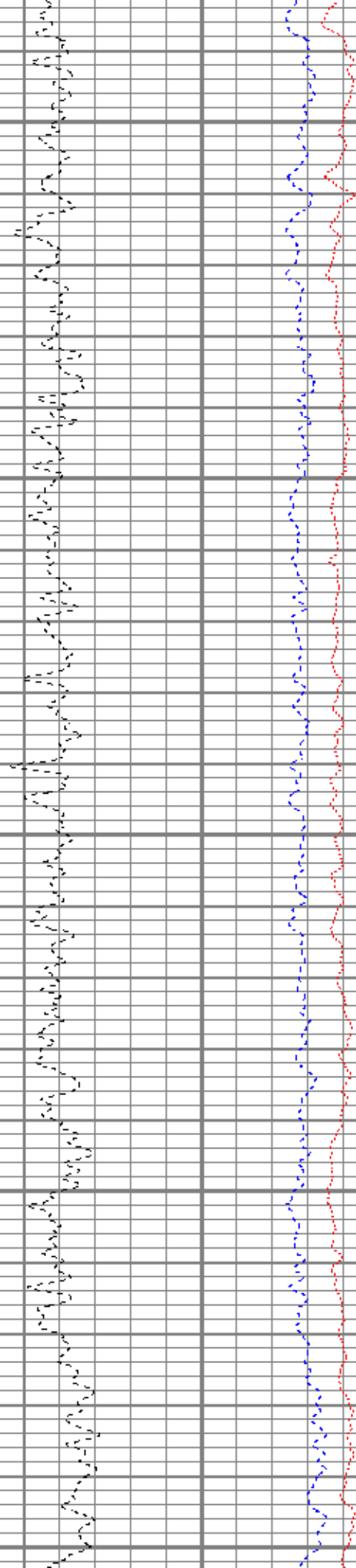
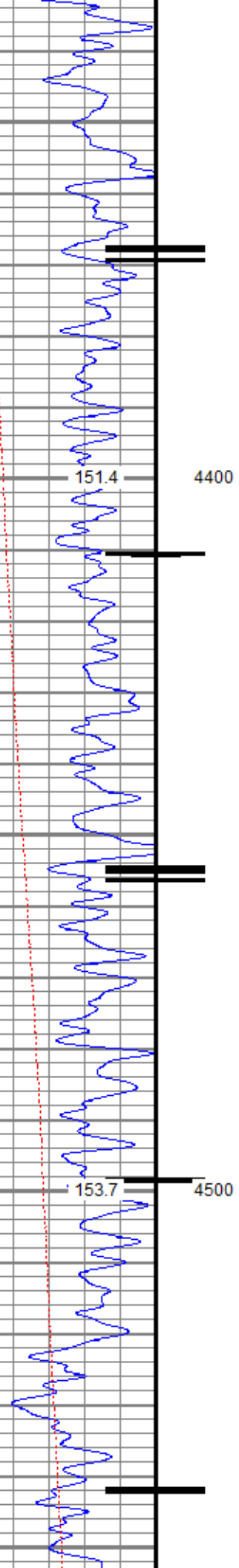


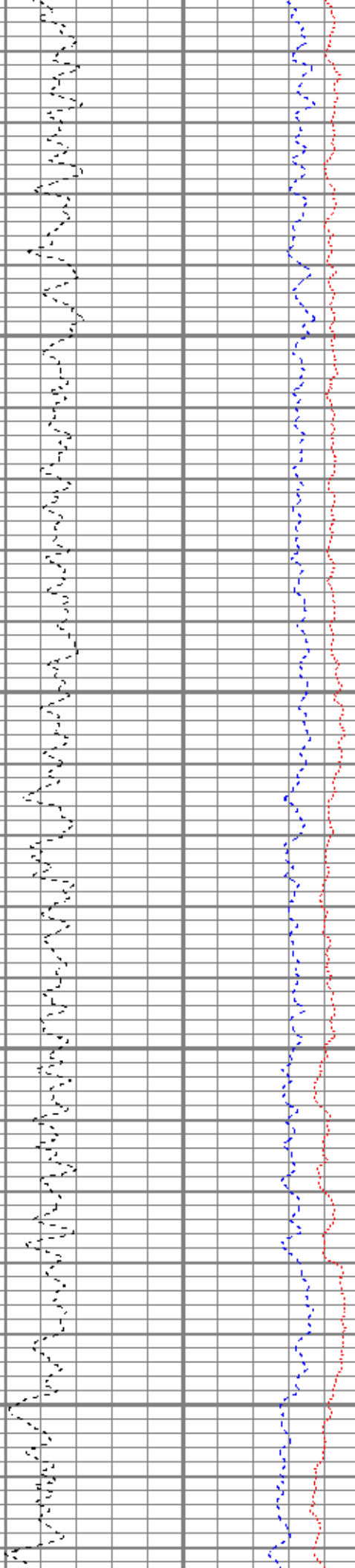
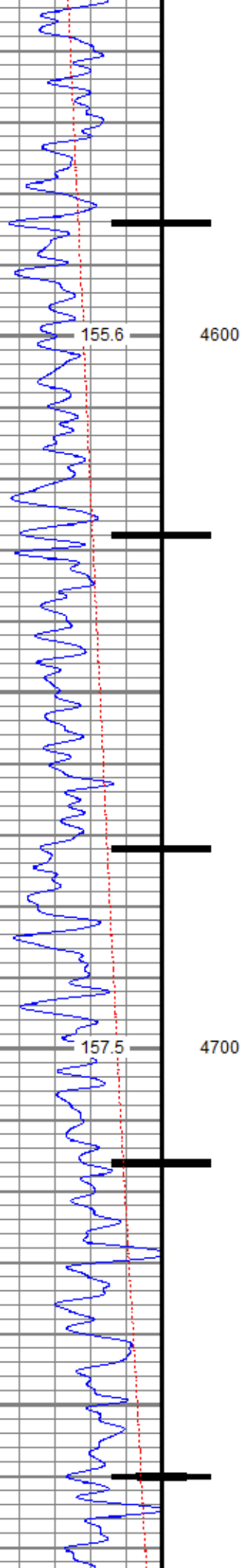


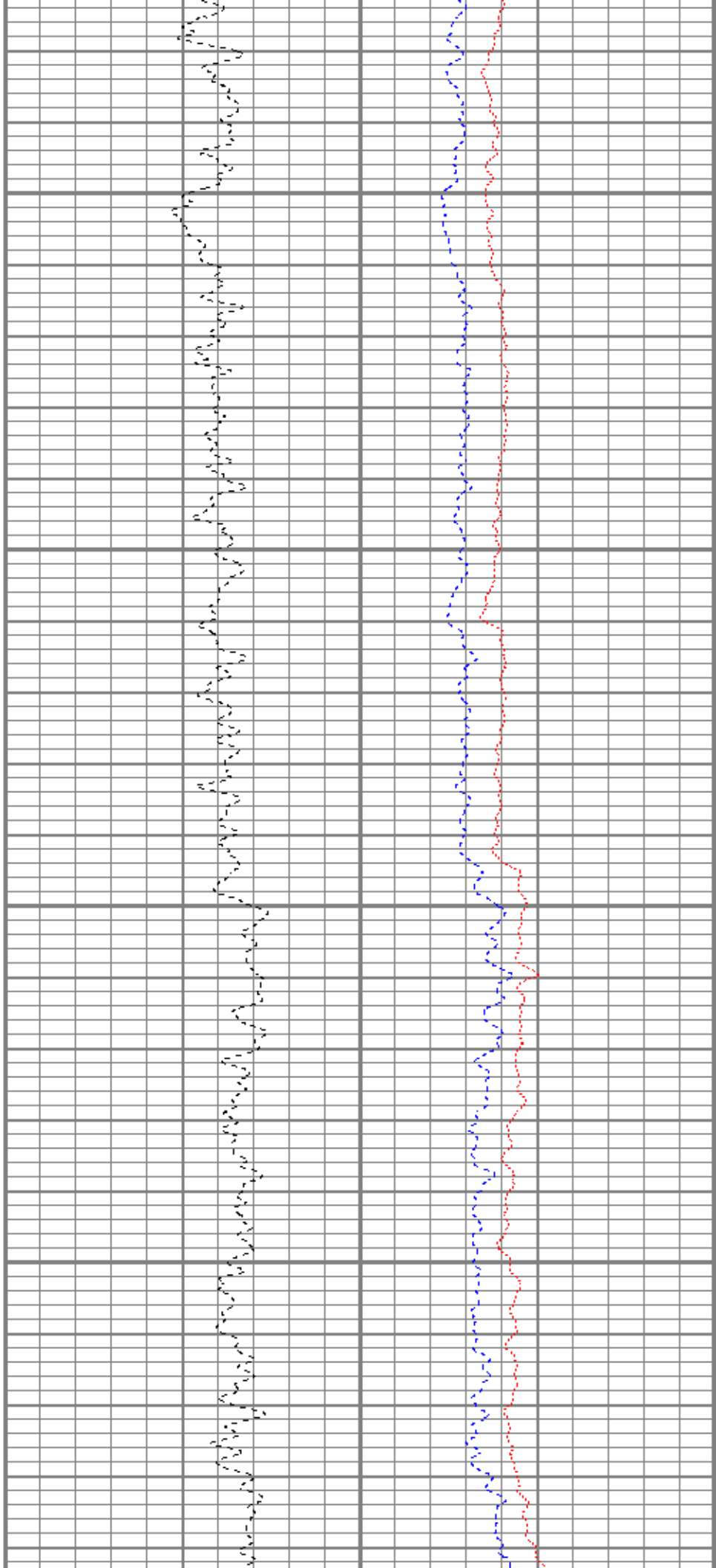
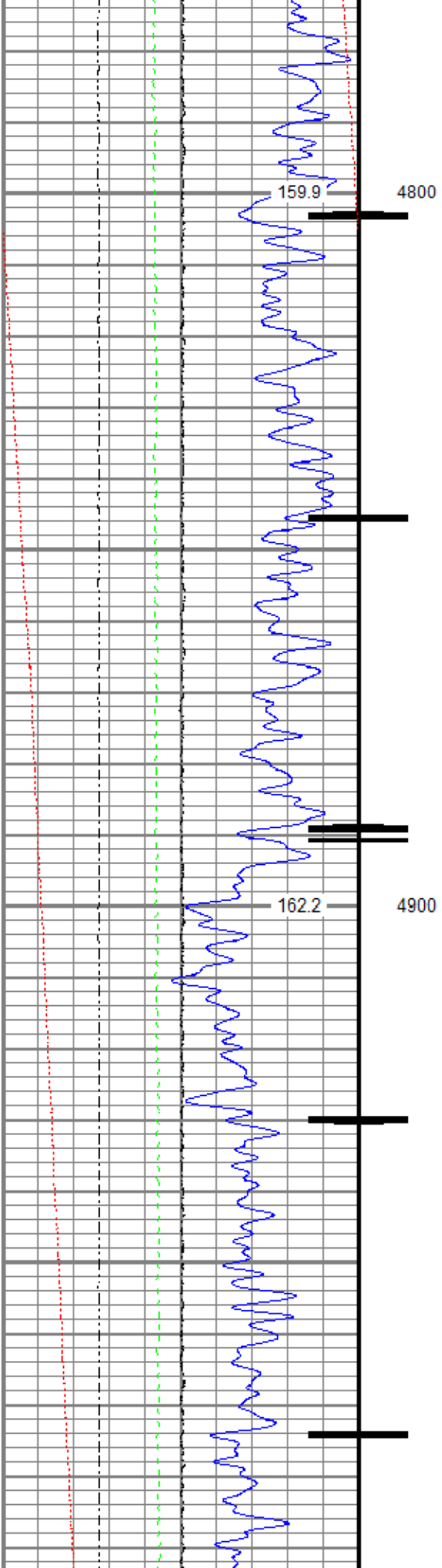


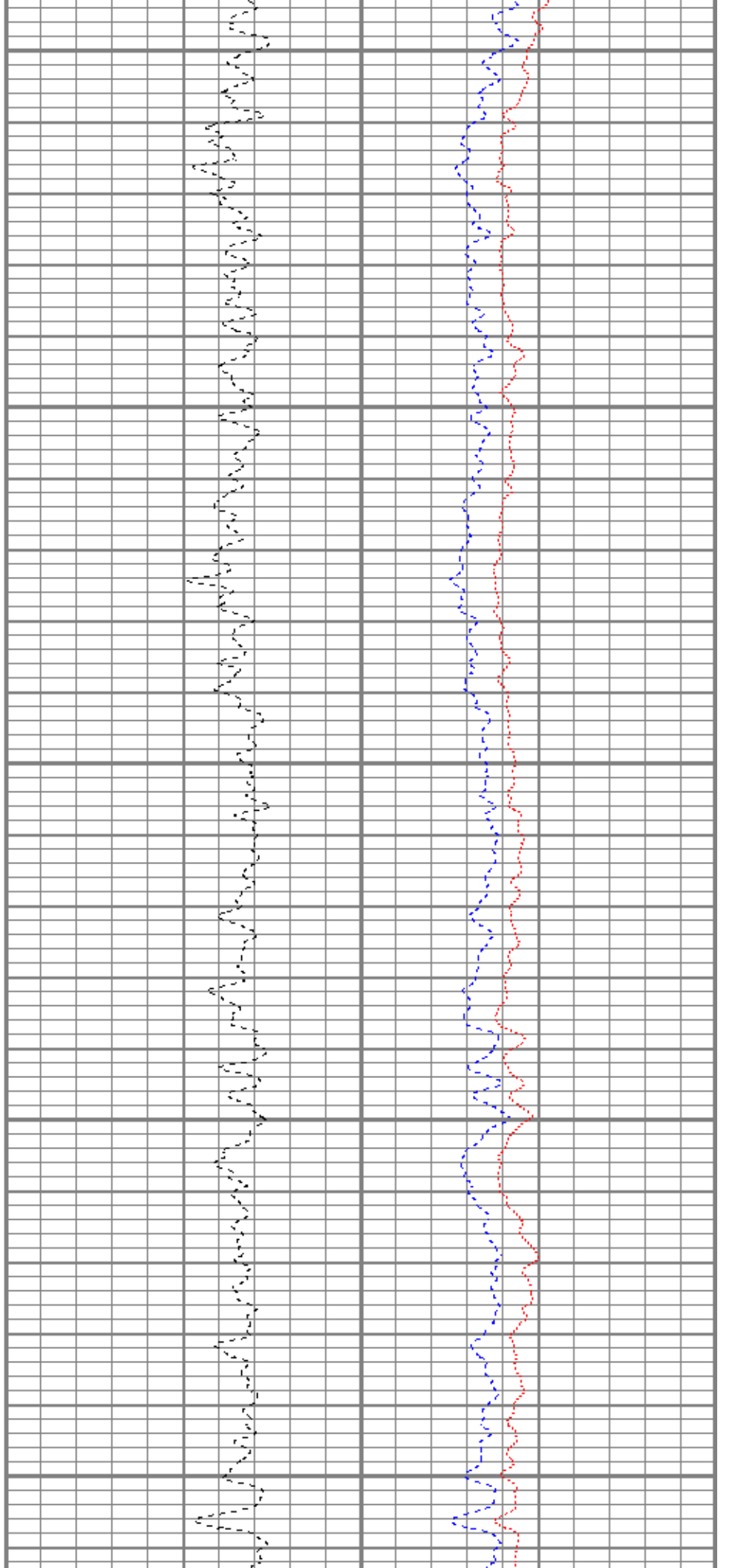
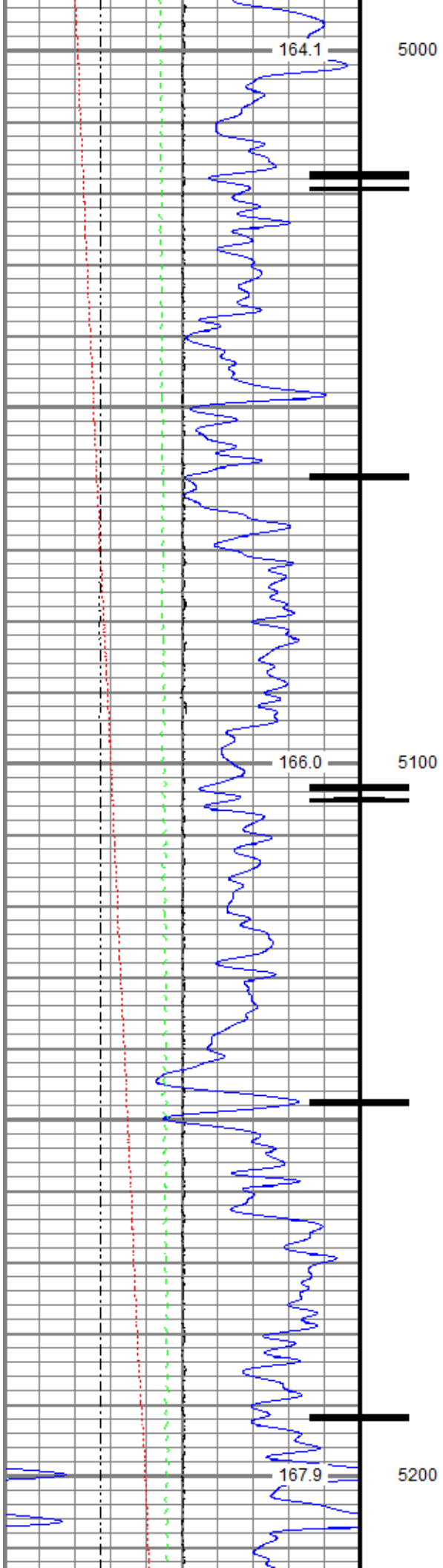


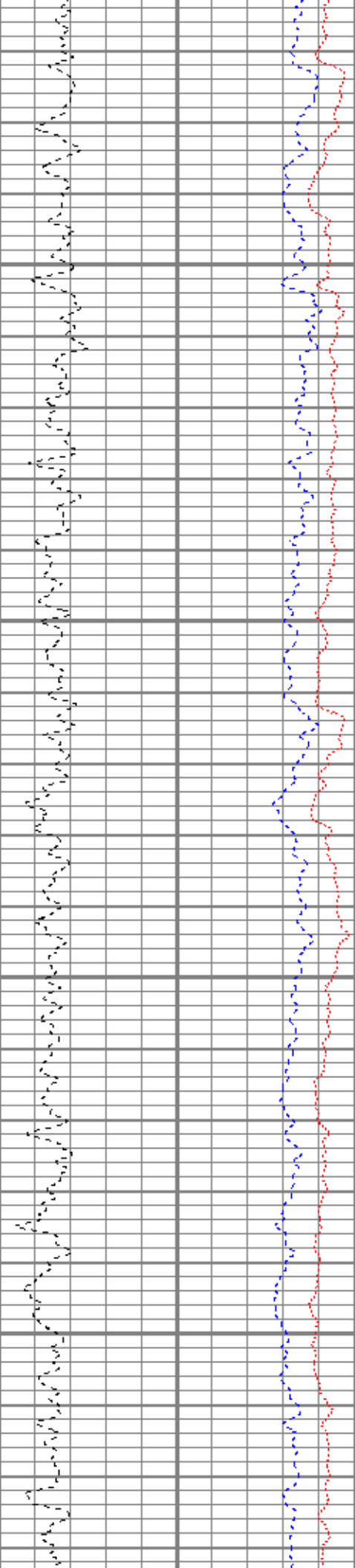
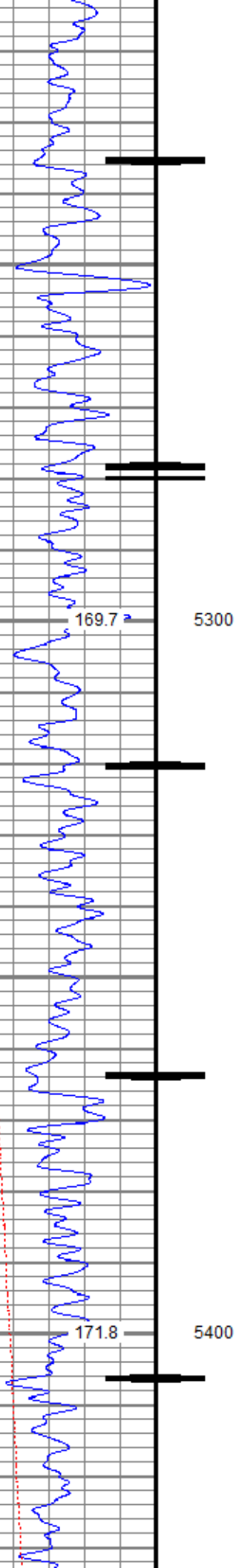


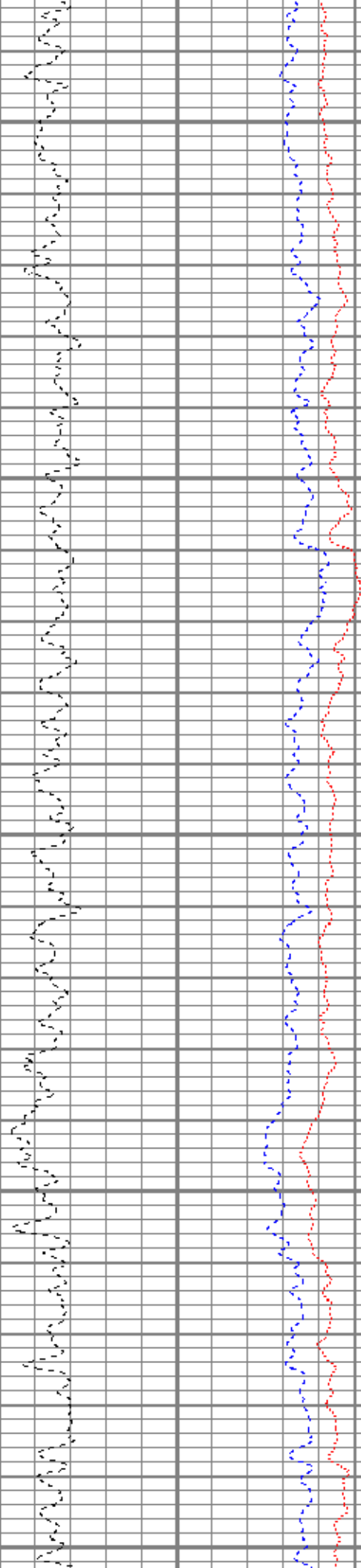
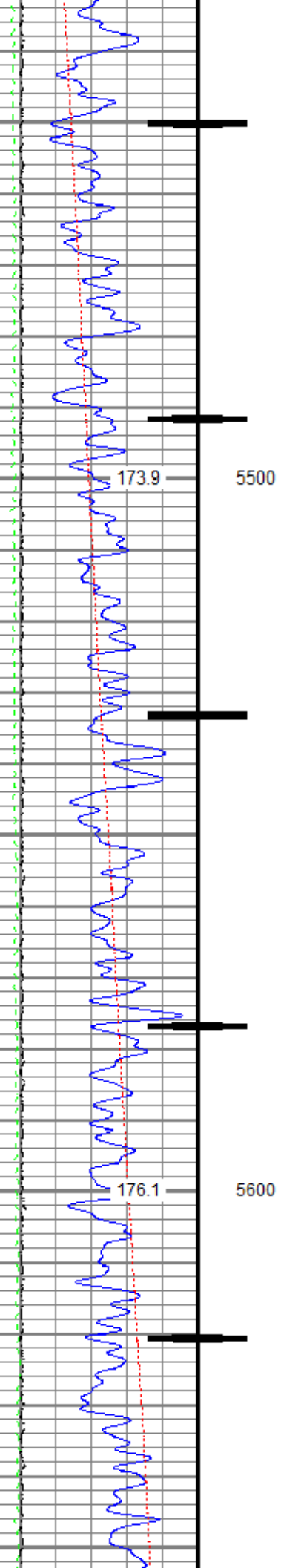


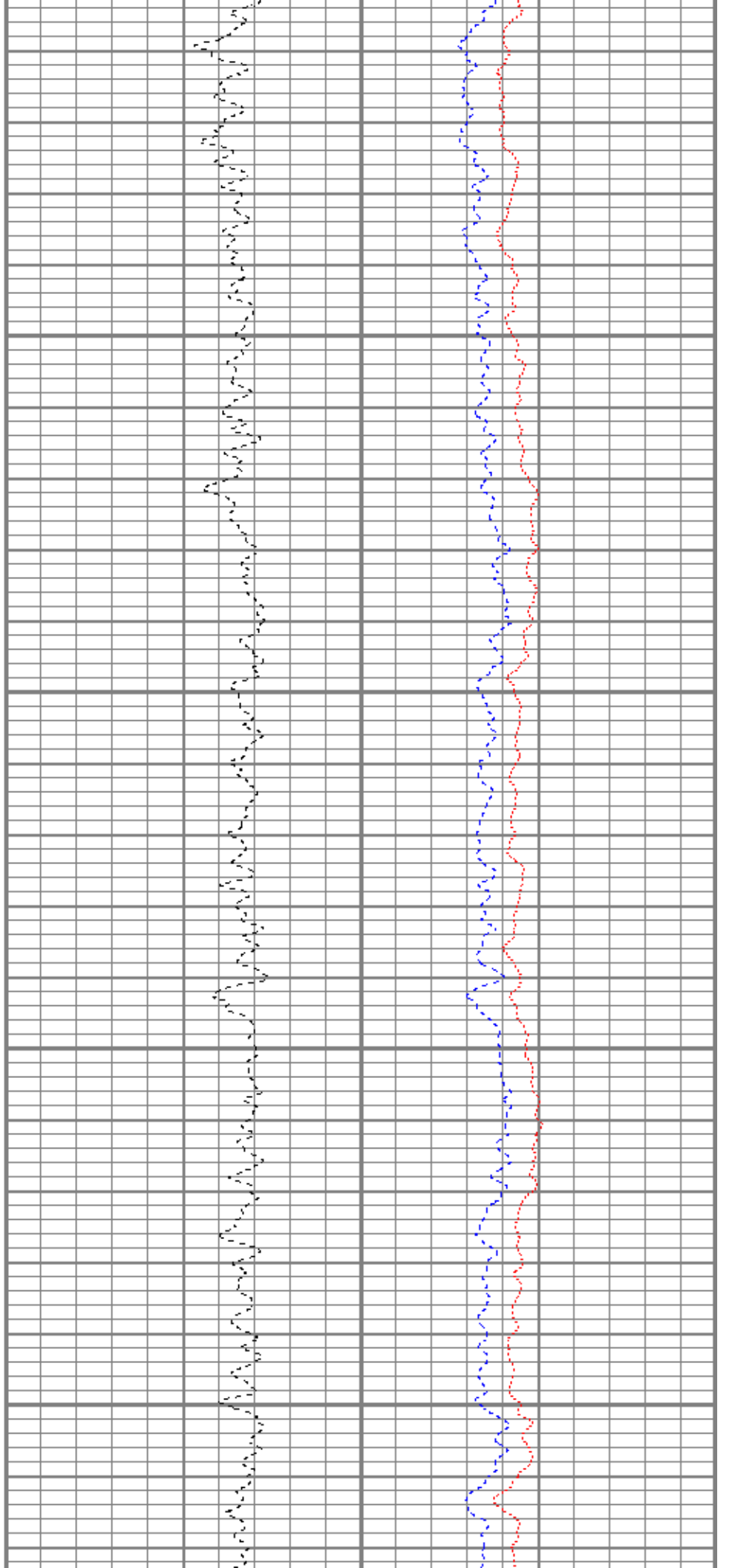
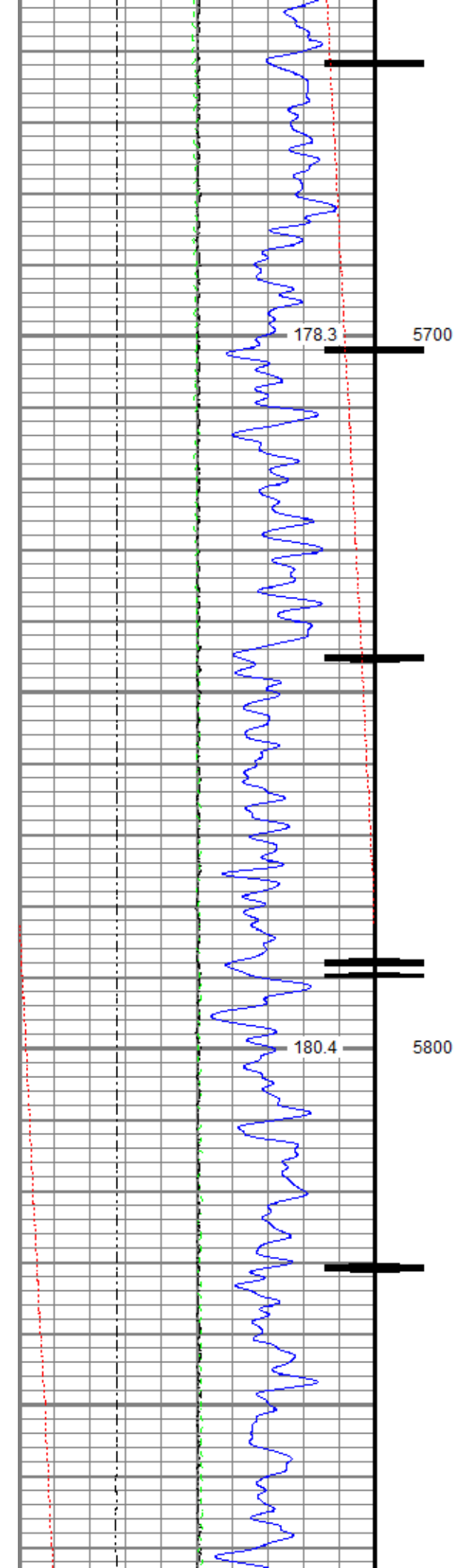


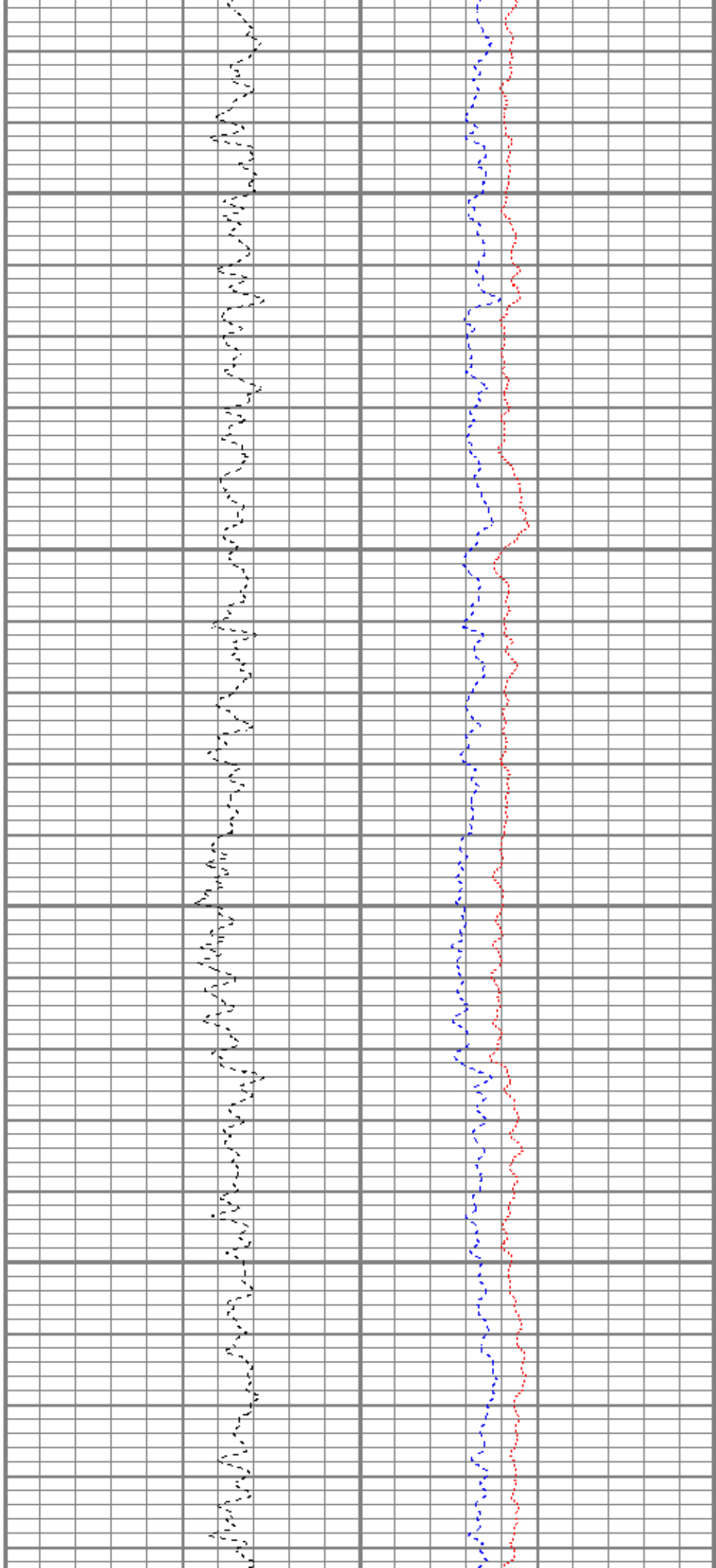
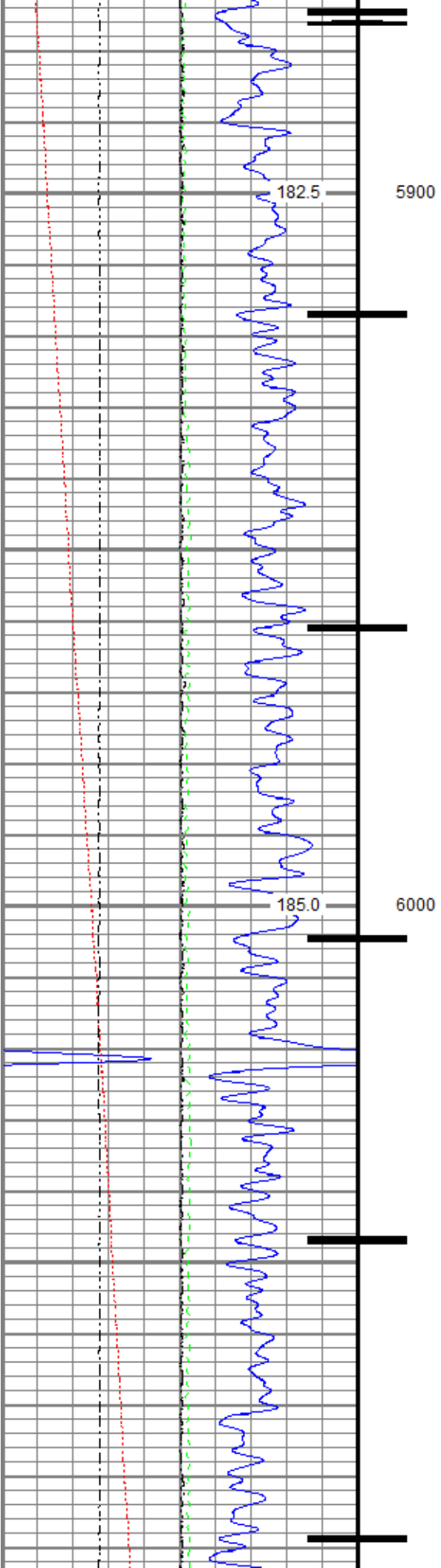


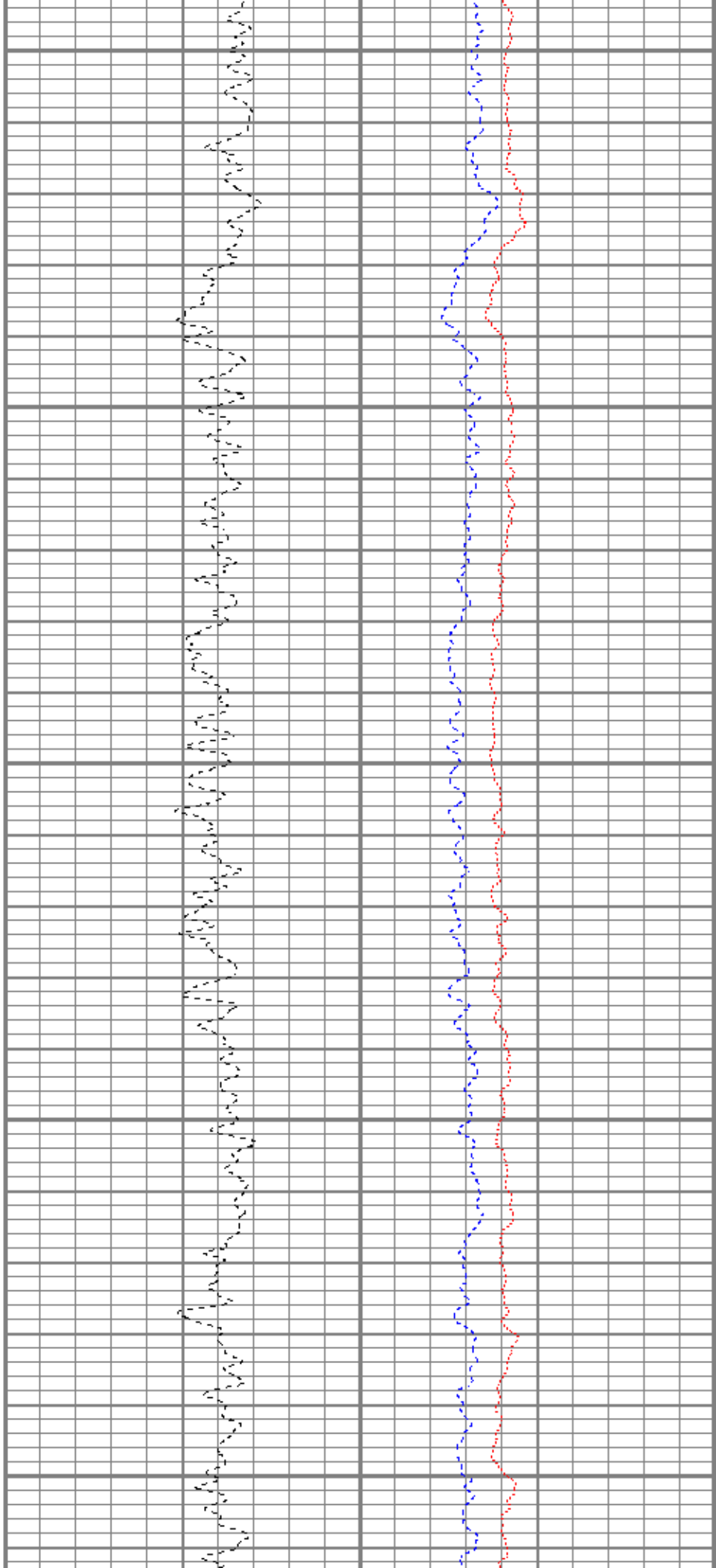
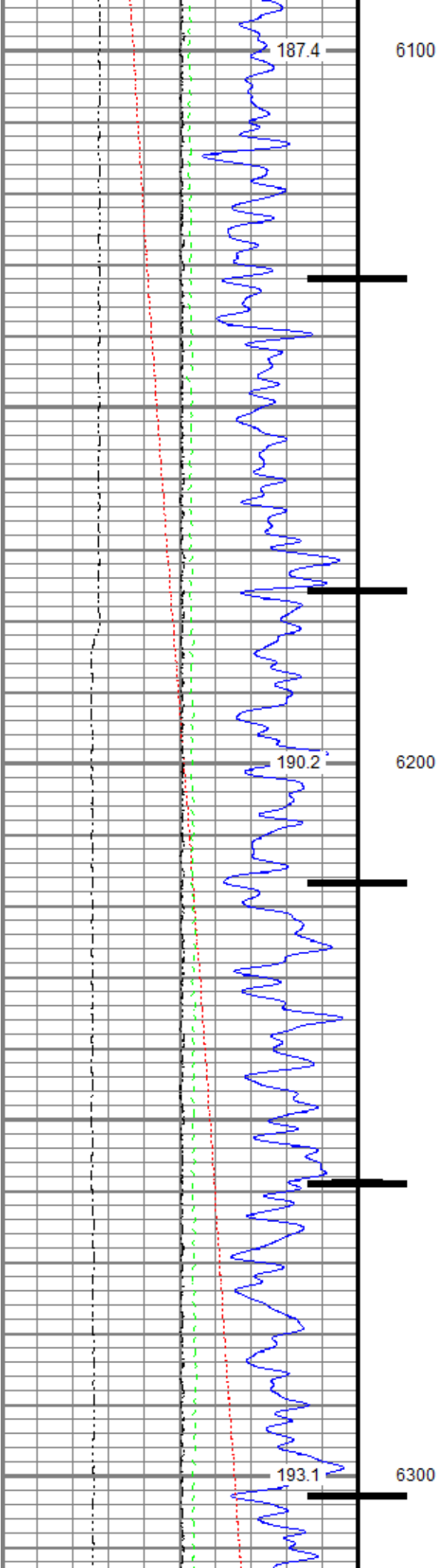


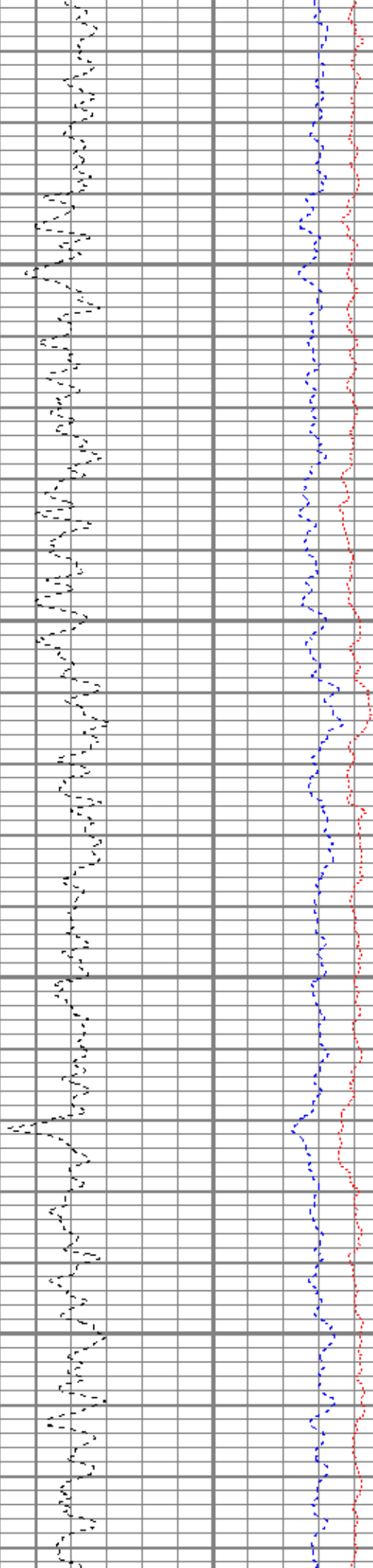
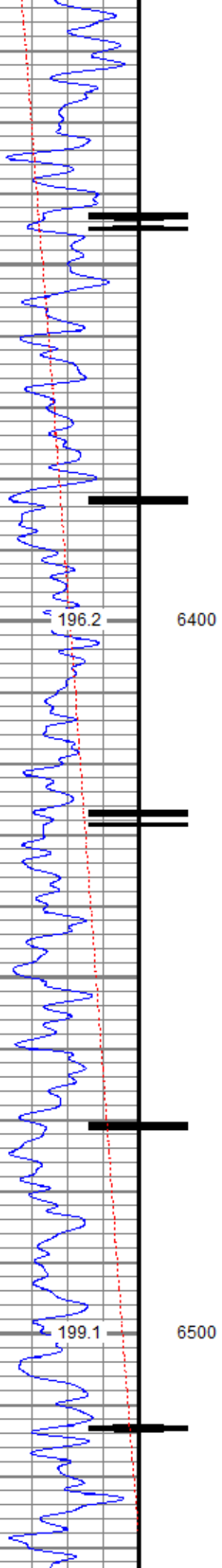


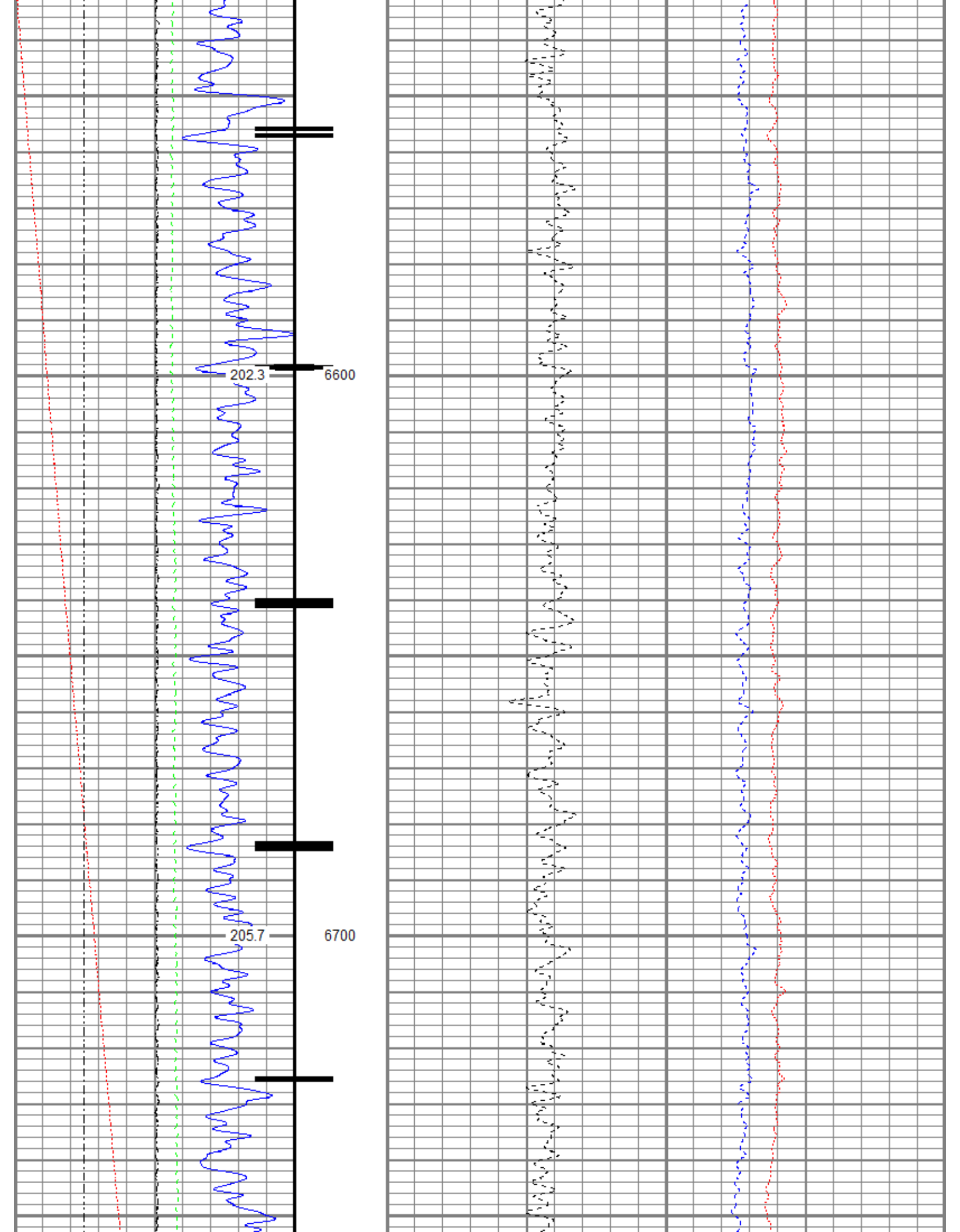


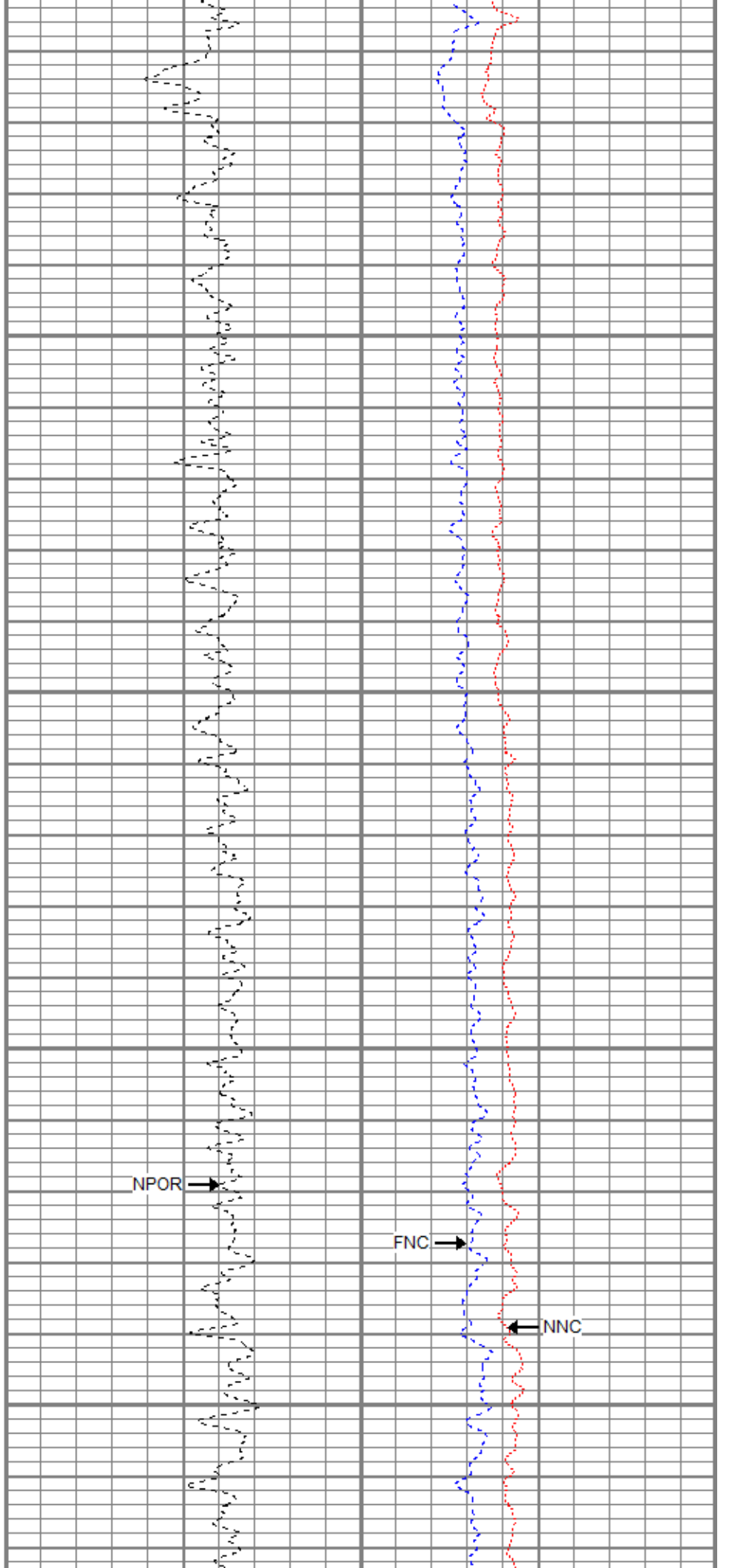
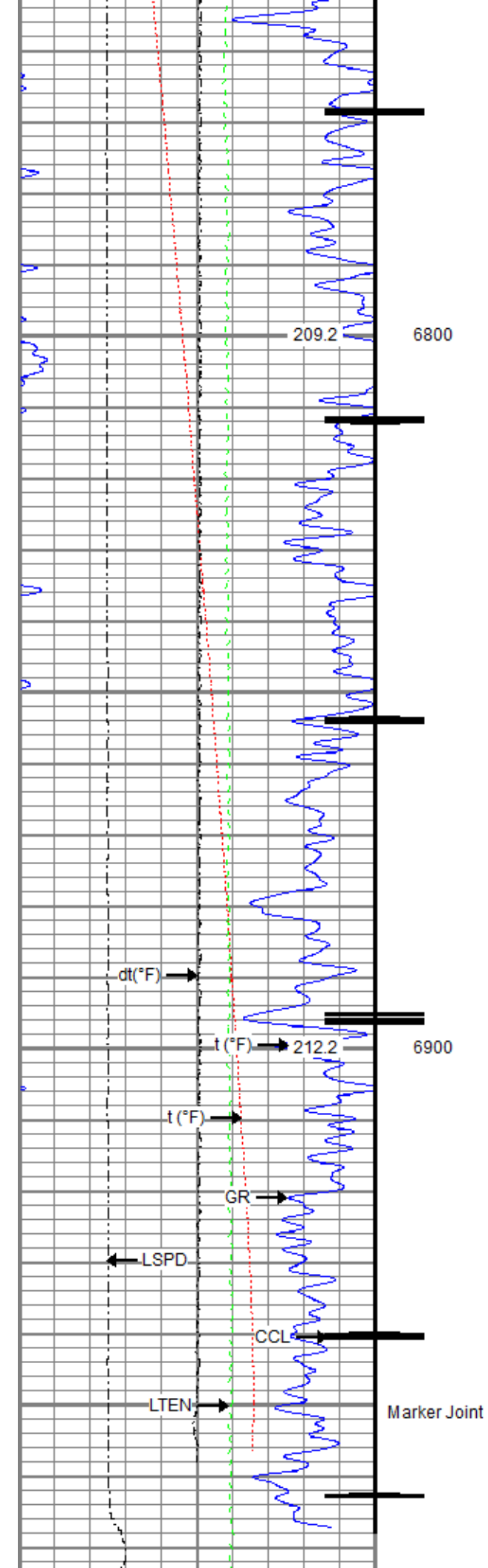












0	Gamma Ray (GAPI)	120	60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
	Casing Collar Locator					0	Near Neutron (cps)	5000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

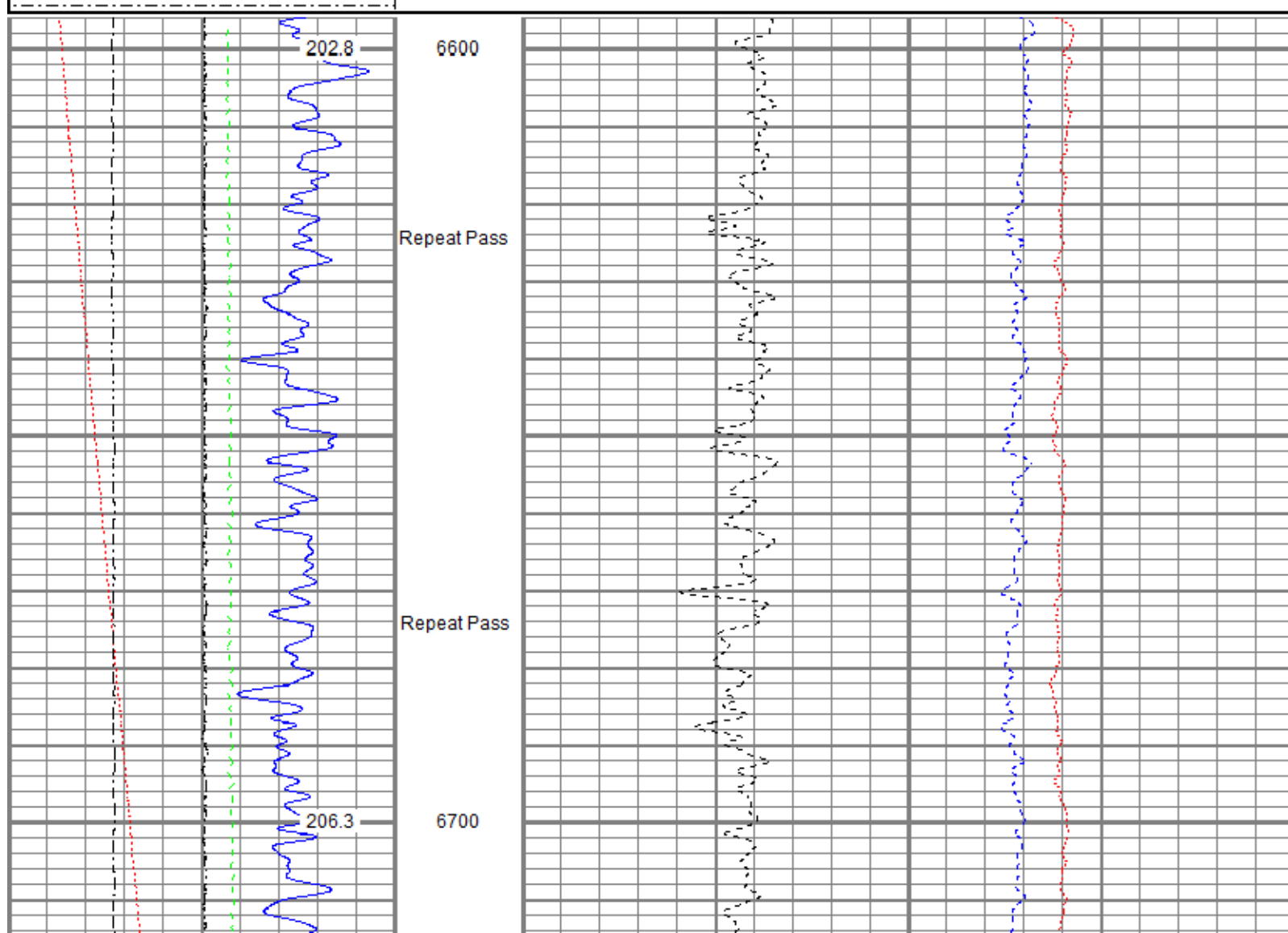


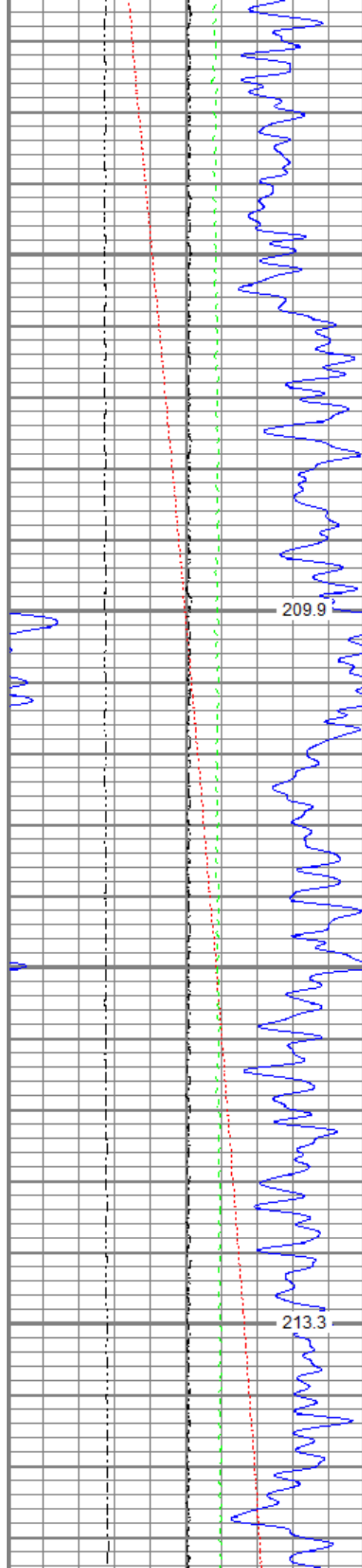
Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File: anadarko\0512346107_anadarko_azul 13-14hz_rbl_cnl_06-28-18\0512346107_anadarko_azul 13-14hz_cnl_06-28-18.db
Dataset Pathname: pass2
Presentation Format: ros_cnl_probe
Dataset Creation: Thu Jun 28 07:43:46 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						





Repeat Pass

Repeat Pass

209.9

6800

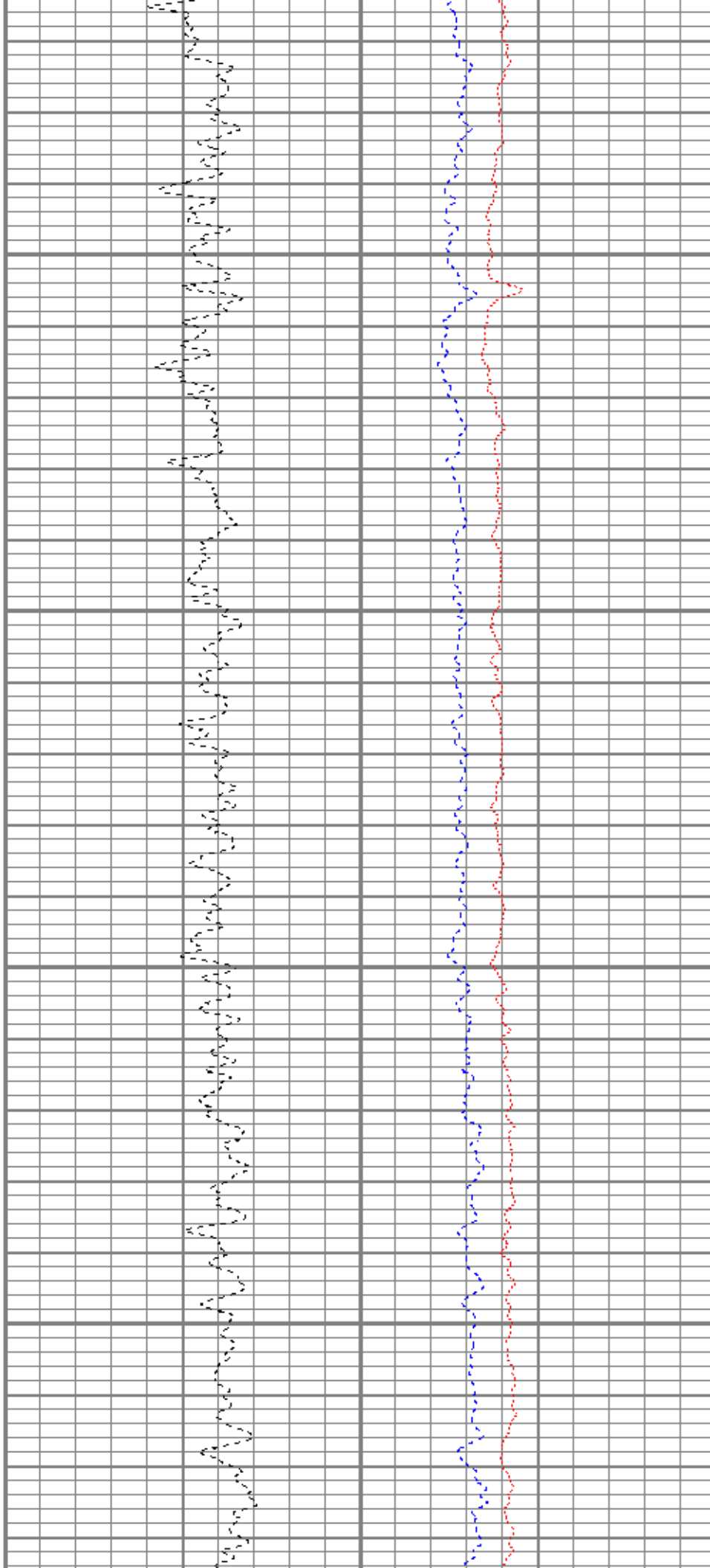
Repeat Pass

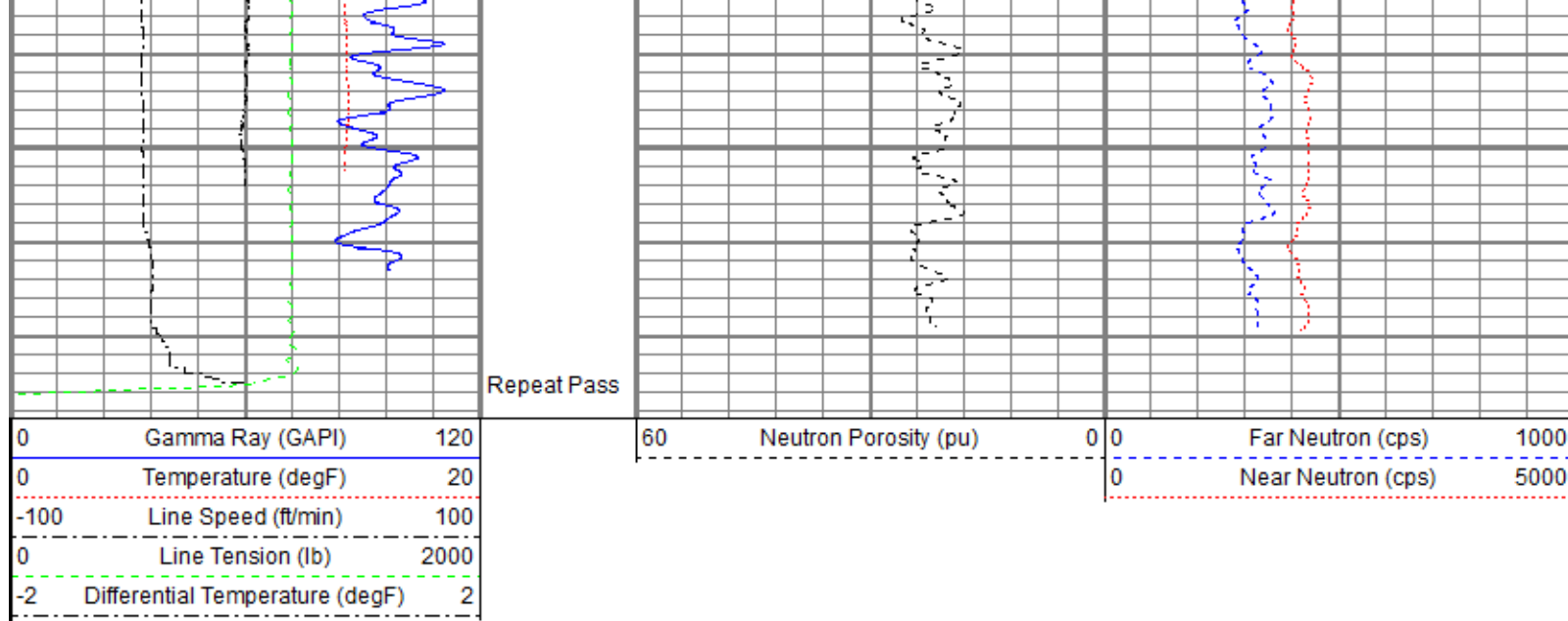
Repeat Pass

213.3

6900

Repeat Pass





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 (FW1305-096)	9.39	2.75	105.00
			Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
			Probe CENT-2750	2.88	2.75	20.00
			Probe 2-3/4" Electric Inline Bowspring Centralizer			
			Probe GR-CCL-2750 6PB (101001)	4.80	2.75	55.00
			Probe 2-3/4" rev.1 Digital Scintillation Gamma Ray/CCL Combined with 6 Pin Bottom for CNT			
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					
CCL\$2	11.83					
CCL\$1	11.83					
GR	10.50					

CNLSC CNSSC	4.53		Probe CN-2750 BL (FW1308-020_A1483) Probe 2-3/4" Compensated Neutron with Bottom Load	5.03	2.75	60.00
	4.12		Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Dataset: 0512346107_Anadarko_Azul 13-14HZ_CNL_06-28-18.db: field/well/run1/pass4.1 Total length: 28.90 ft Total weight: 283.60 lb O.D.: 2.75 in						

Calibration Report						
Database File	C:\ProgramData\Warrior\Data\Anadarko\0512346107_Anadarko_Azul 13-14HZ_RBL_CNL_06-28-18\0512346107_Anadarko_A					
Dataset Pathname	pass4.1					
Dataset Creation	Thu Jun 28 10:45:37 2018					
Compensated Neutron Calibration Report						
Serial Number:			FW1308-020_A1483			
Tool Model:			2750 BL			
CALIBRATION		Wed Oct 11 09:42:11 2017				
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:		101001				
Tool Model:		2750 6PB				

Performed:	Sun Nov 12 11:25:32 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	100.6	cps
Calibrator Reading:	981.1	cps
Sensitivity:	0.7235	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1305-096	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	-62.051	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.492	0.800	71.921	144.828	0.677
CAL	0.006	0.502				
5'	0.000	0.477	0.800	71.921	149.009	0.792
SUM						
S1	0.000	0.496	0.000	100.000	201.591	-0.080
S2	0.001	0.498	0.000	100.000	201.277	-0.146
S3	0.001	0.517	0.000	100.000	193.767	-0.212
S4	0.001	0.522	0.000	100.000	191.951	-0.177
S5	0.001	0.512	0.000	100.000	195.752	-0.168
S6	0.001	0.498	0.000	100.000	201.389	-0.220
S7	0.002	0.501	0.000	100.000	200.064	-0.309
S8	0.001	0.496	0.000	100.000	202.160	-0.246

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.006	0.502	1.000	0.000

Air Zero Calibration, performed Thu Jun 28 06:56:00 2018:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.006	0.000	-0.000
5'	0.006	0.000	-0.000
SUM			
S1	0.006	0.000	-0.001
S2	0.006	0.000	-0.000
S3	0.006	0.000	0.000
S4	0.006	0.000	0.000
S5	0.006	0.000	0.000
S6	0.006	0.000	0.000
S7	0.005	0.000	0.001
S8	0.006	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
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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	Azul 13-14HZ
Field	Wattenberg
County	Weld
State	Colorado