



Compensated Neutron
Gamma Ray
Casing Collar Log

Company	Kerr-McGee Oil & Gas Onshore, L.P.			
Well	GE Powers 3C-26HZ			
Field	Wattenberg			
County	Weld			
State	Colorado			
Location:	Company	Kerr-McGee Oil & Gas Onshore, L.P.		
	Well	GE Powers 3C-26HZ		
	Field	Wattenberg		
	County	Weld		
	State	Colorado		
	API # : 05-123-41914			
SEC 23 TWP 2N RGE 65W	Other Services			
	Gauge Ring			
Permanent Datum	Ground Level	Elevation	4890'	
Log Measured From	Kelly Bushing	20 FT	K.B. 4910'	
Drilling Measured From	Kelly Bushing		D.F. 4909'	
			G.L. 4890'	

Date	22-OCT-2015
Run Number	One
Depth Driller	12258 FT
Depth Logger	7206 FT
Bottom Logged Interval	7205 FT
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	239°F
Estimated Cement Top	Surface
Time Well Ready	ROA
Time Logger on Bottom	10:00
Equipment Number	HD-0340
Location	Fort Lupton, CO
Recorded By	W.Wacker
Witnessed By	Van Frankie

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom		
Surface Casing	9 5/8	36	J-55 LT&C	Surface	1854 FT		
Intermediate #1	5 1/2	17	HCP-110 LTC	Surface	12249 FT		
Intermediate #2							
Liner							

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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 FMC Technologies RBL dated 12-OCT-2015
Adjusted +15 FT to correlate with FMC RBL
Log ran as deep as possible in heel to surface
Recorded with -0- PSI surface induced pressure
No debris found on logging tools upon completion of run

Thank you for choosing FMC Technologies Completion Services, Inc.!!

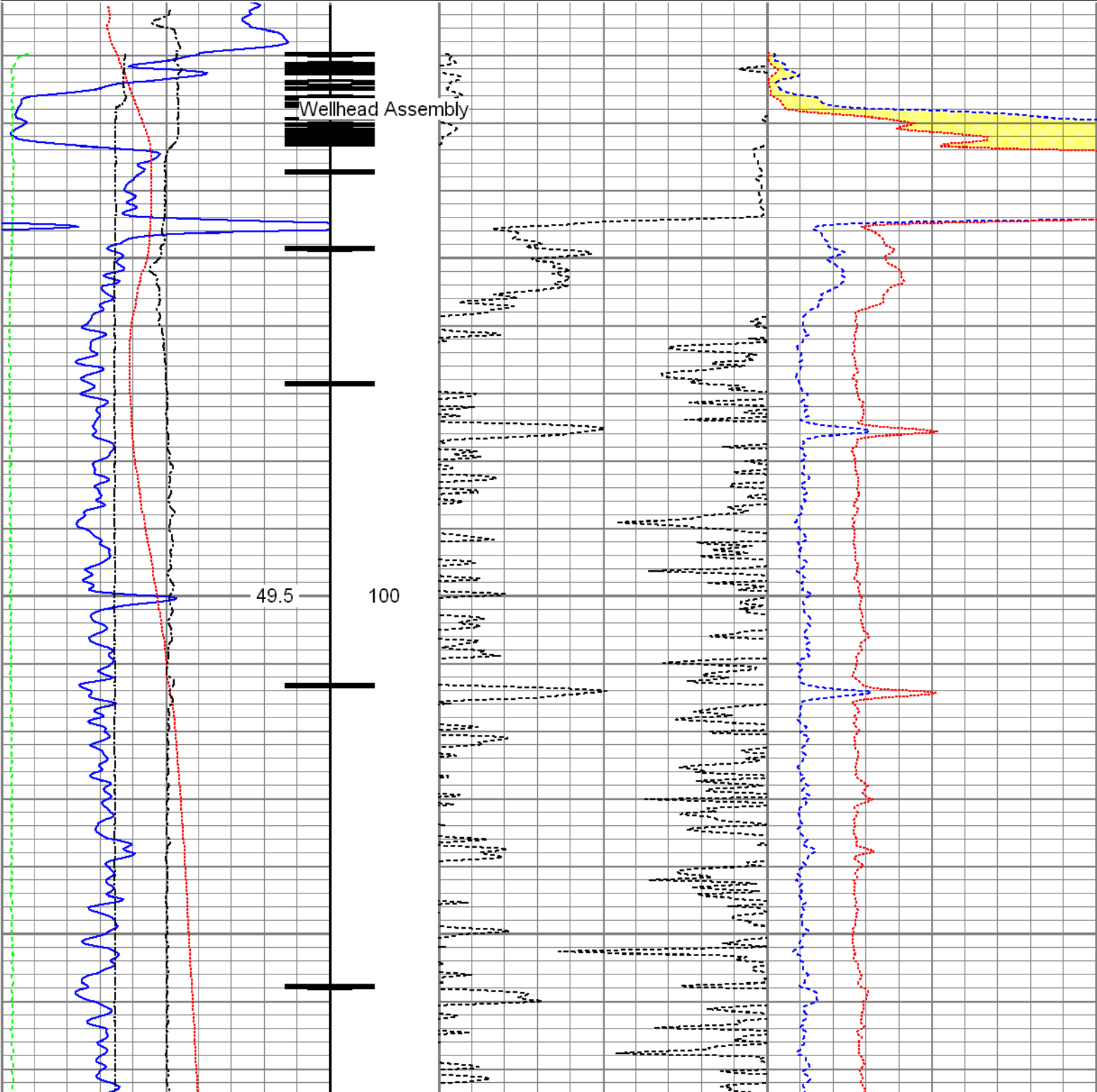


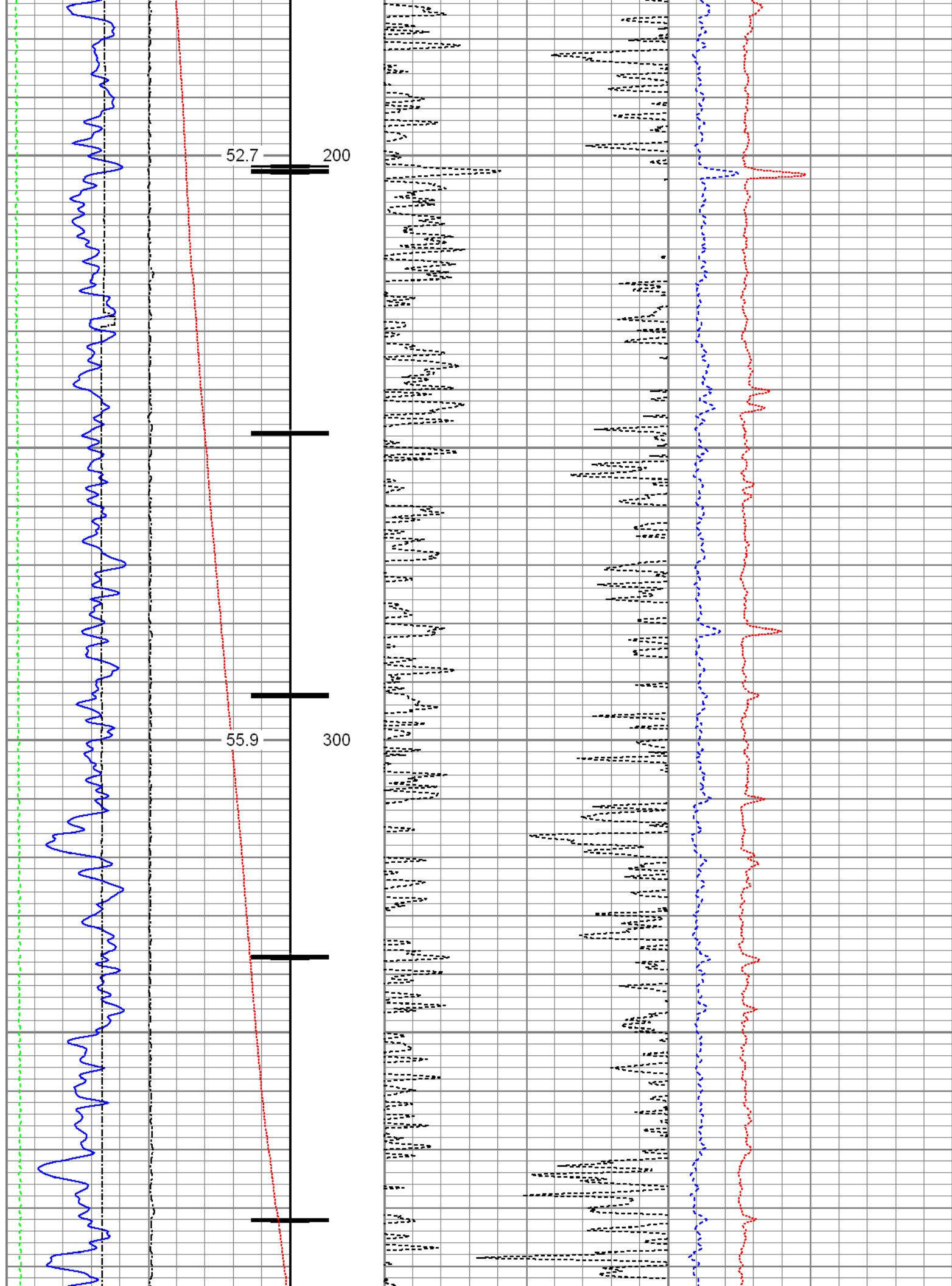
Main Pass

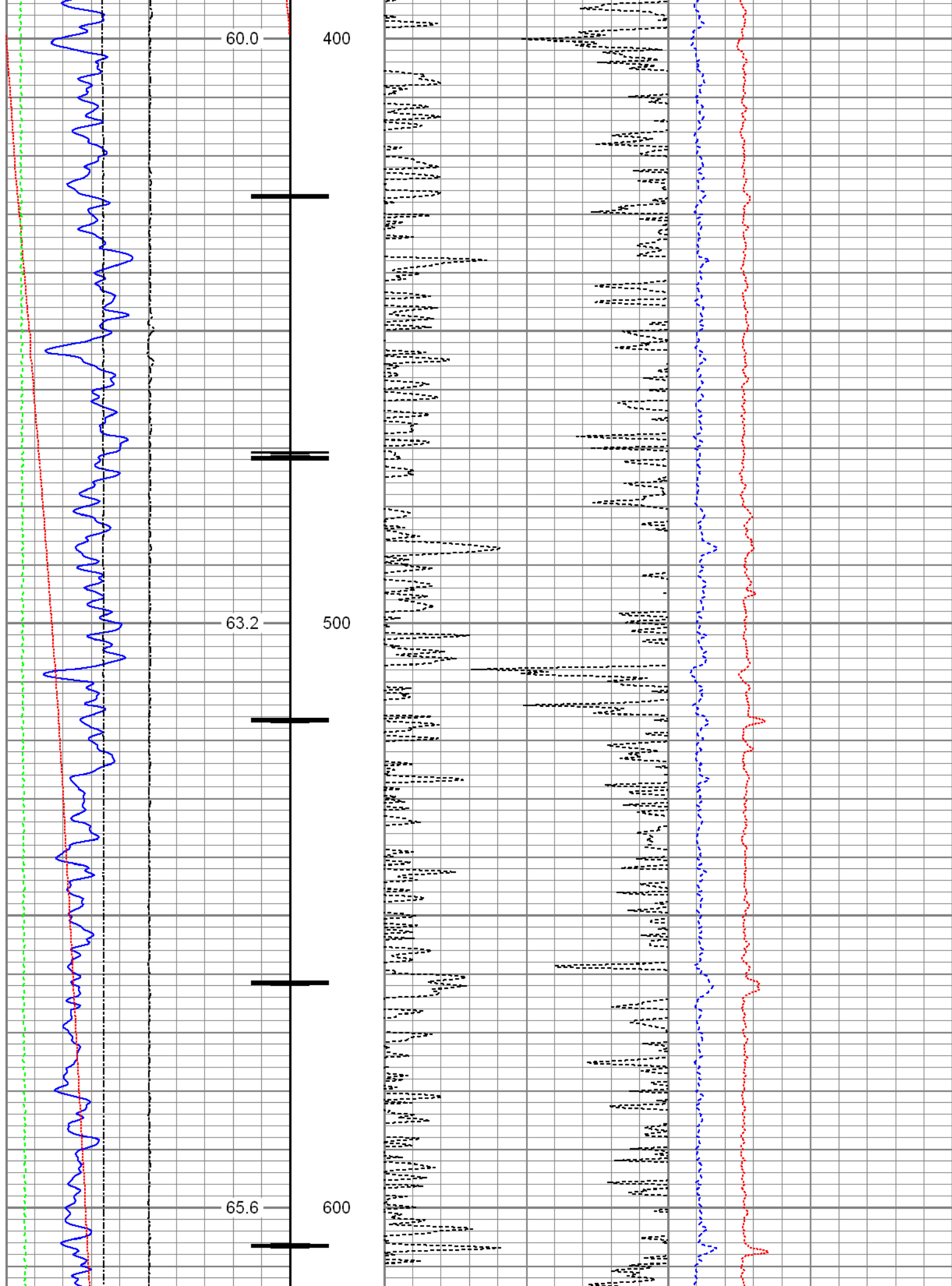
Recorded with 0 PSI Surface Induced Pressure

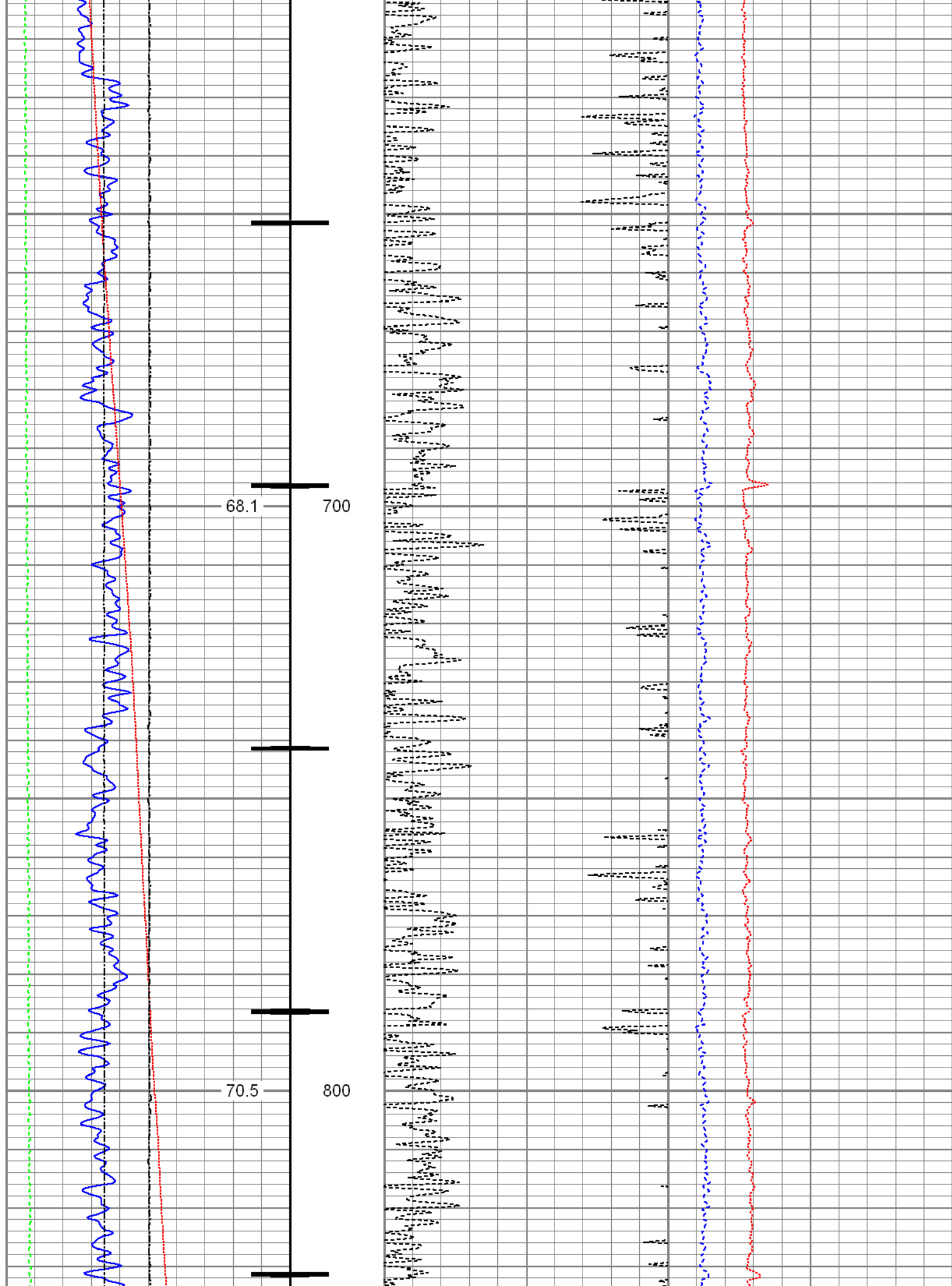
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Dataset Pathname: pass6.1
Presentation Format: cnl
Dataset Creation: Thu Oct 22 14:19:48 2015
Charted by: Depth in Feet scaled 1:240

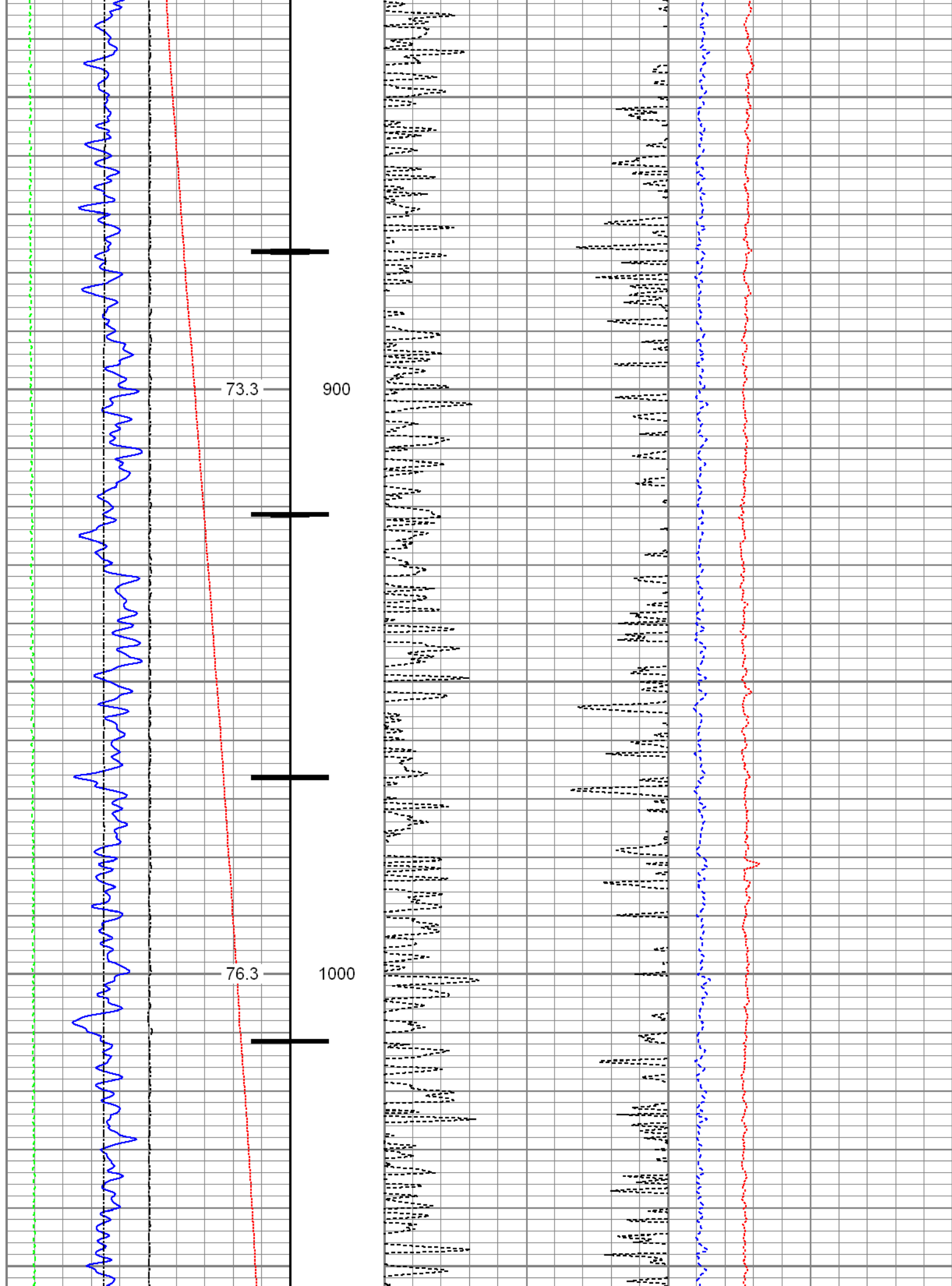
0	Gamma Ray (GAPI)	120	60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
Casing Collar Locator						0	Near Neutron (cps)	10000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

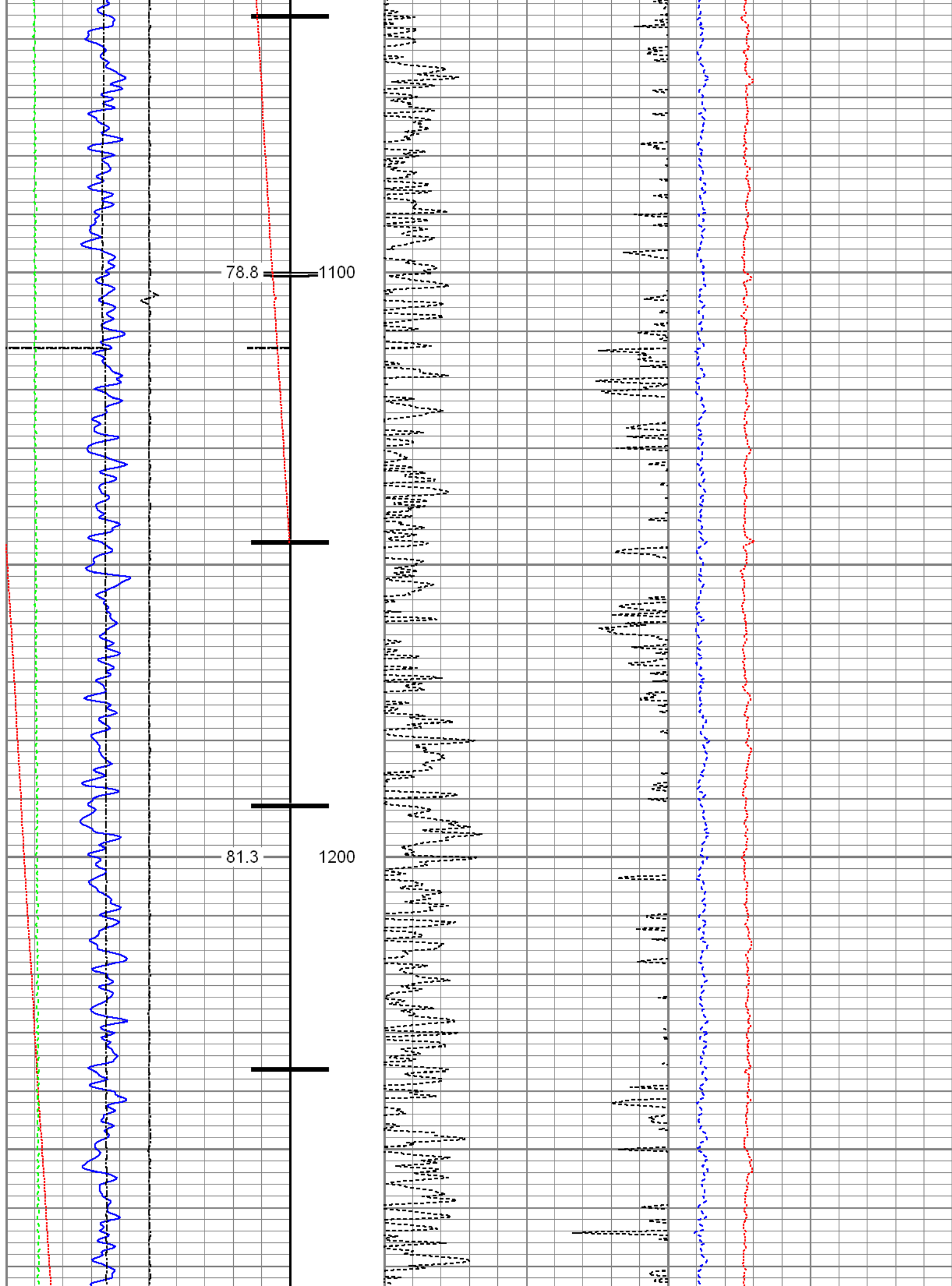


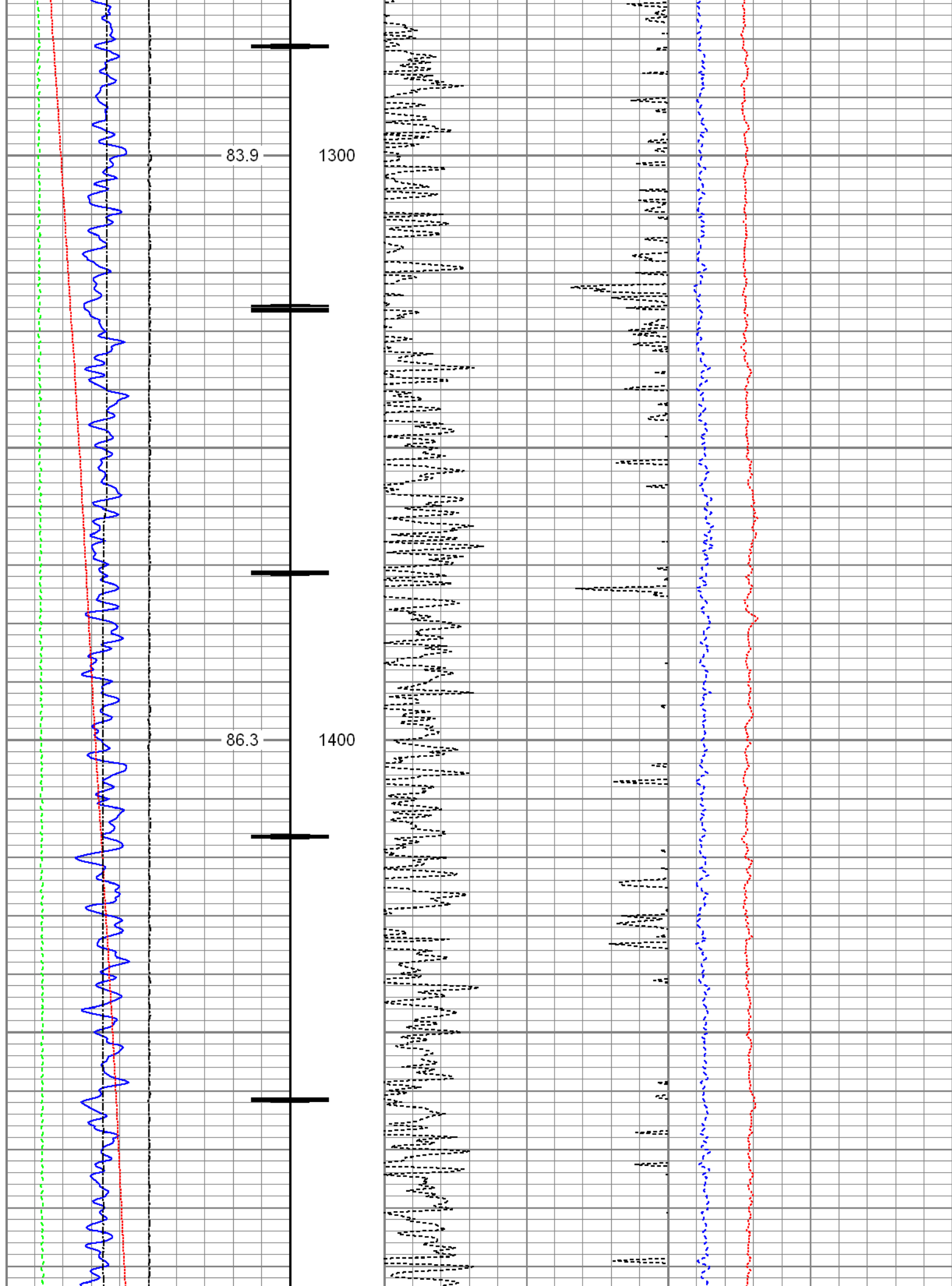


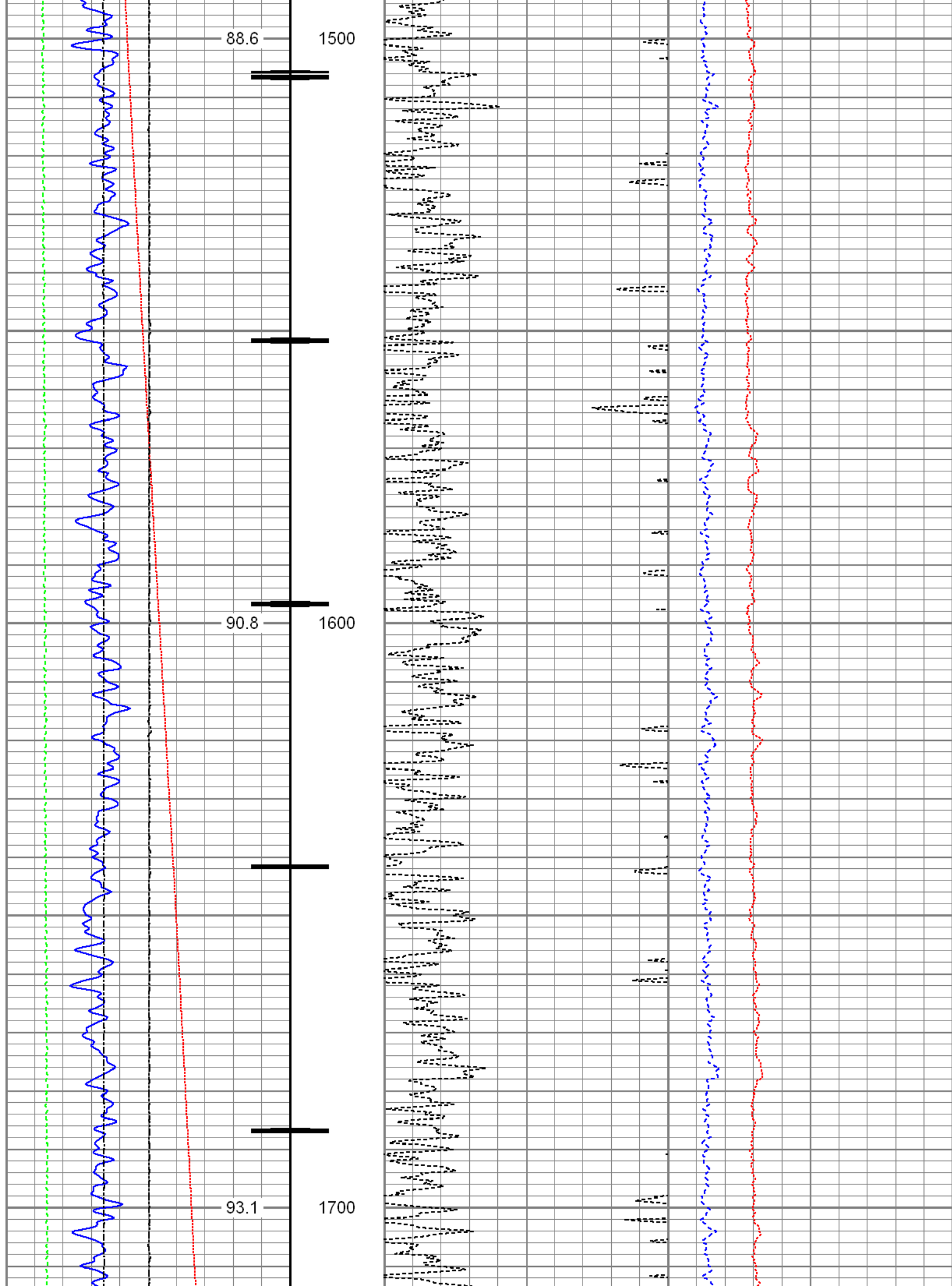


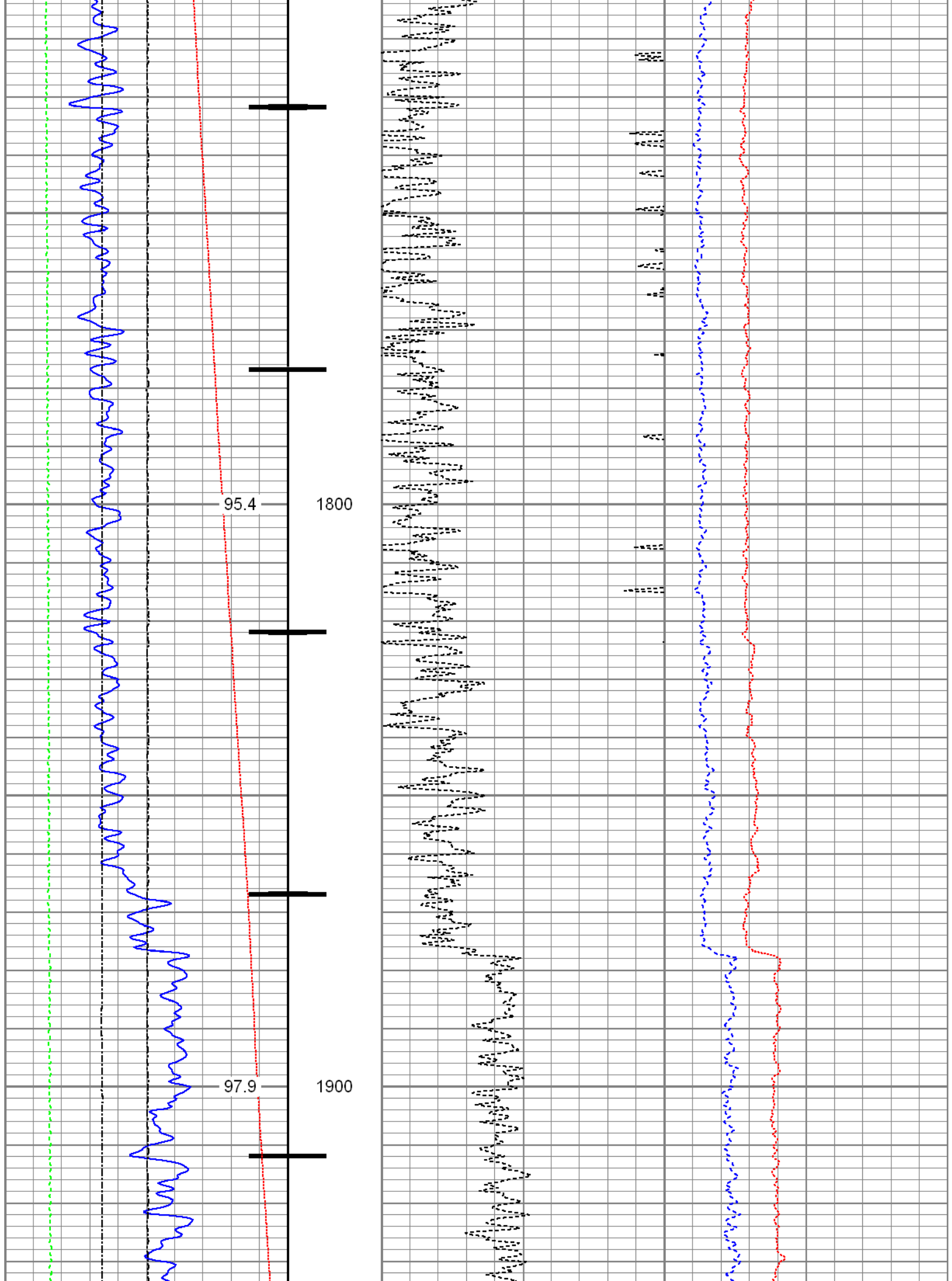


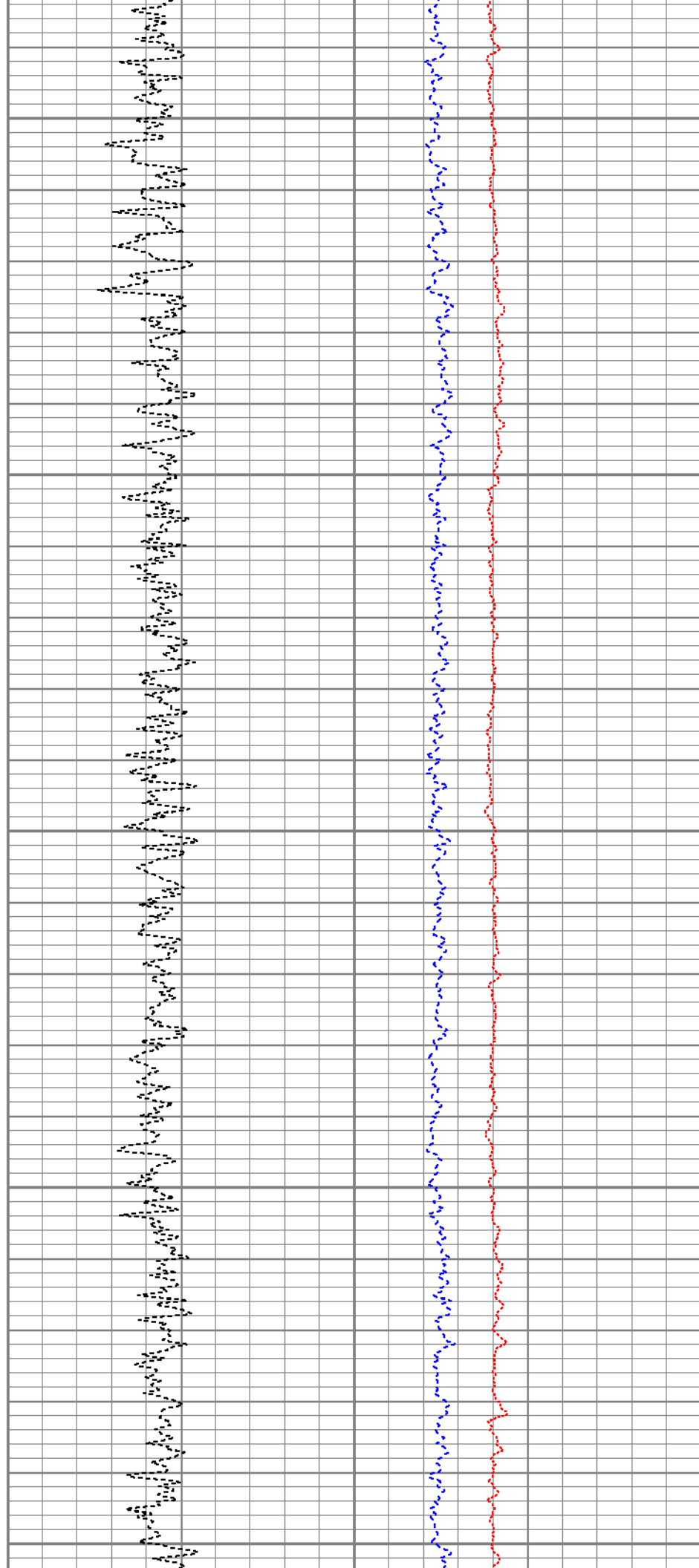
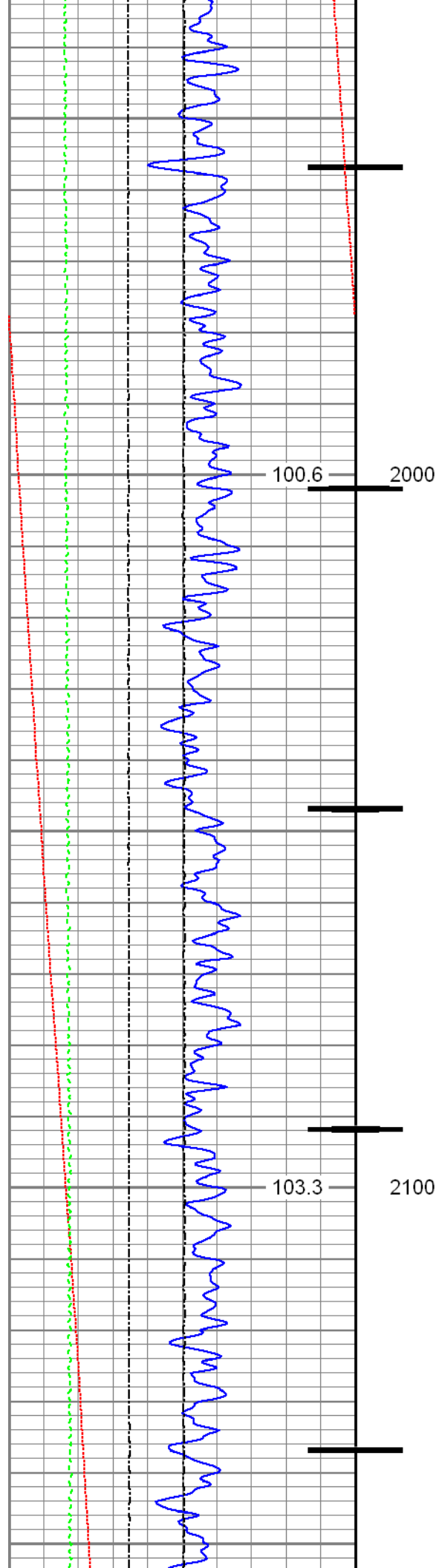


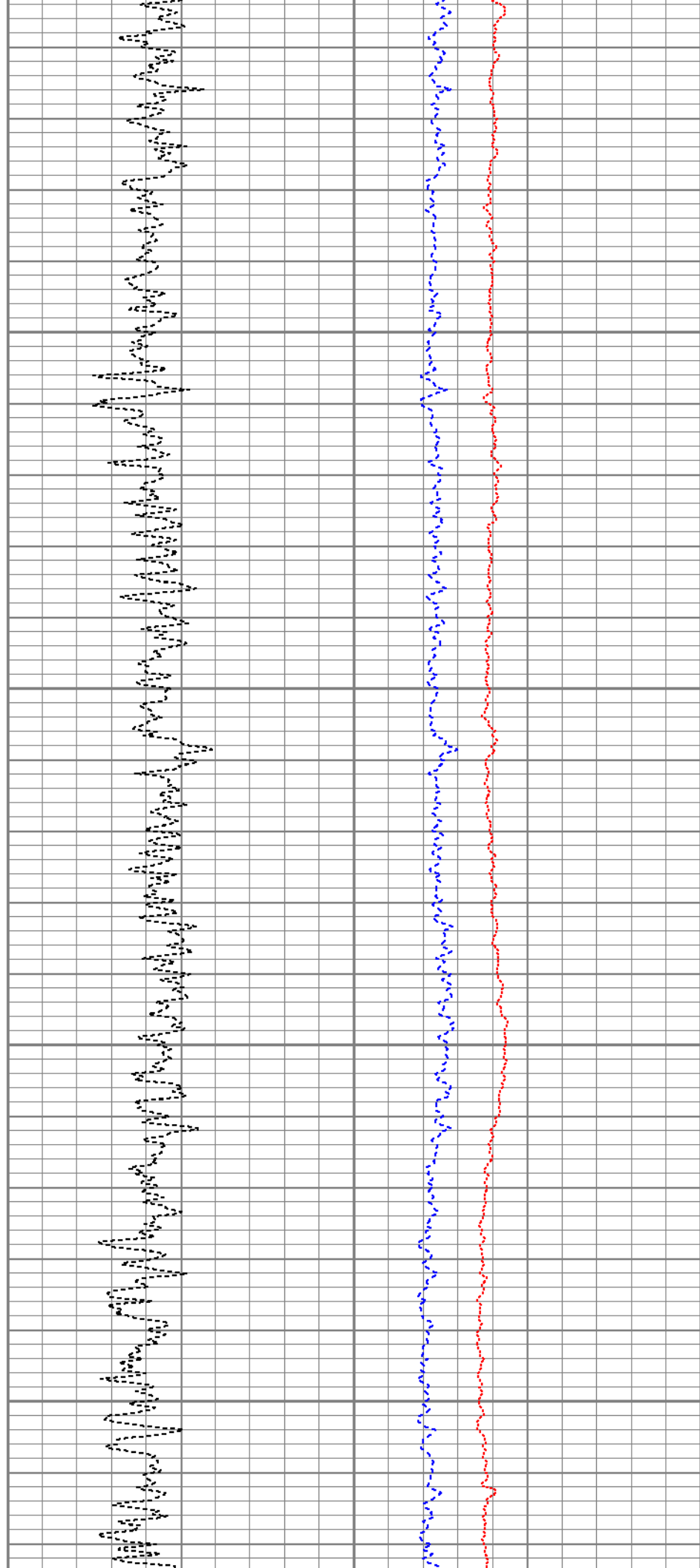
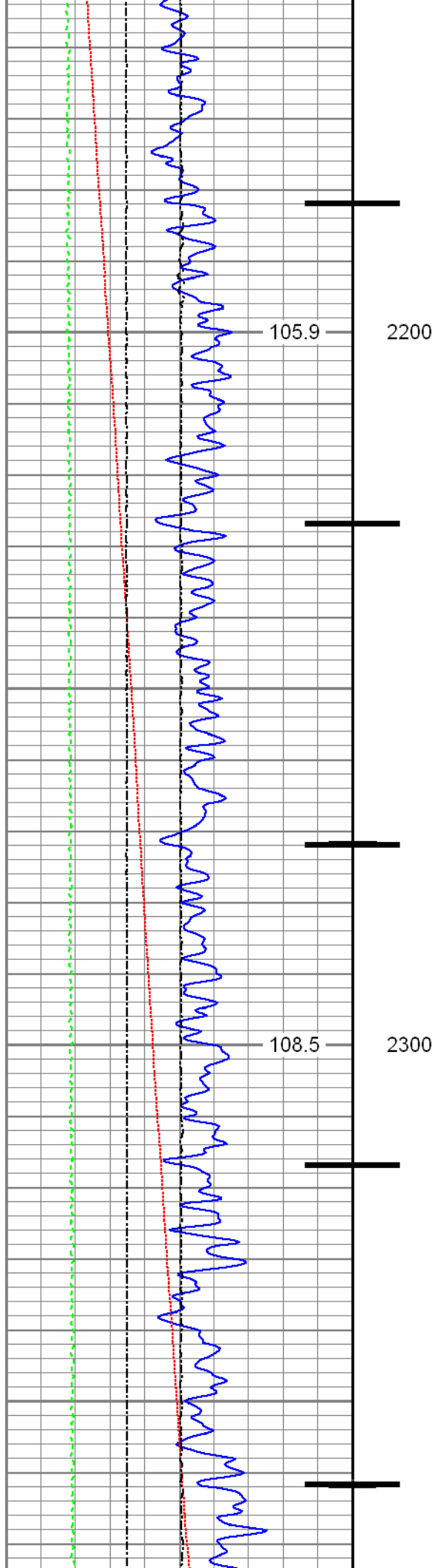


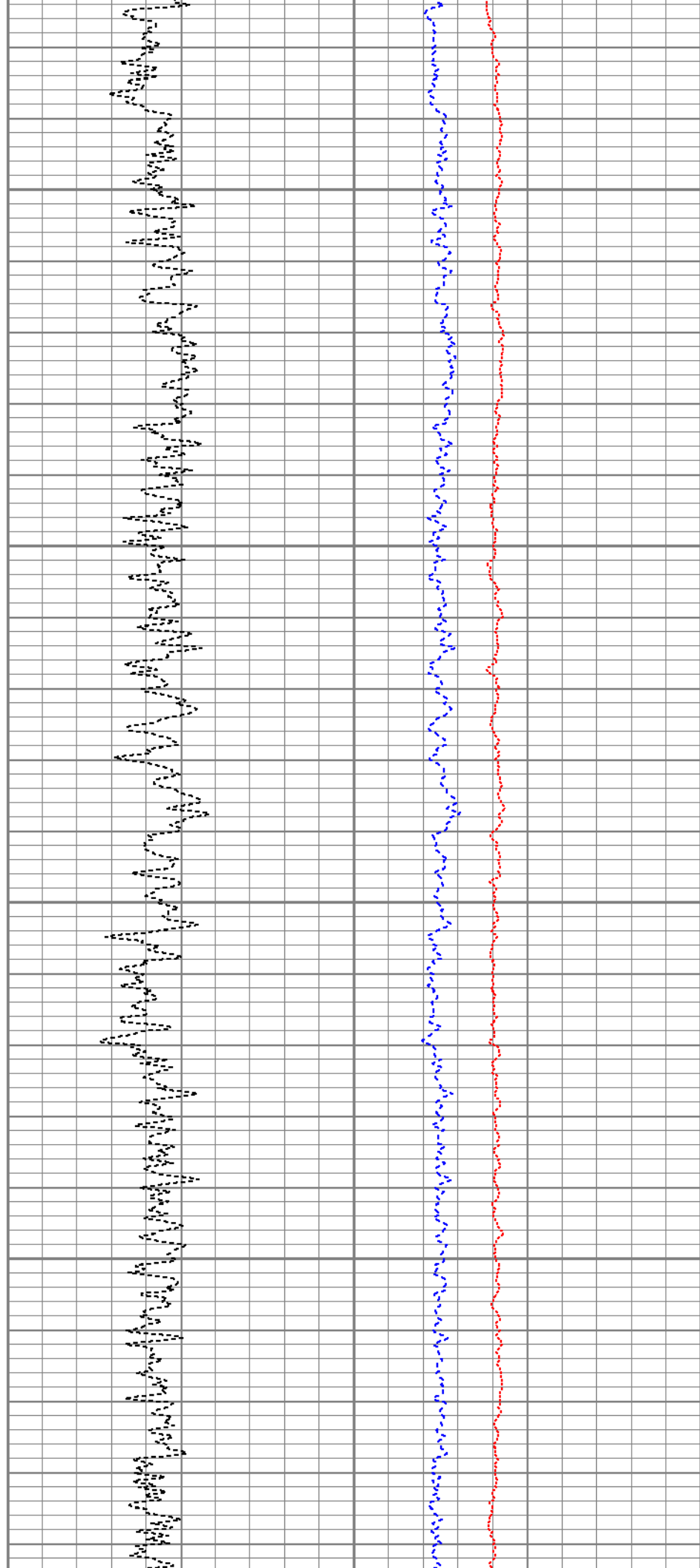
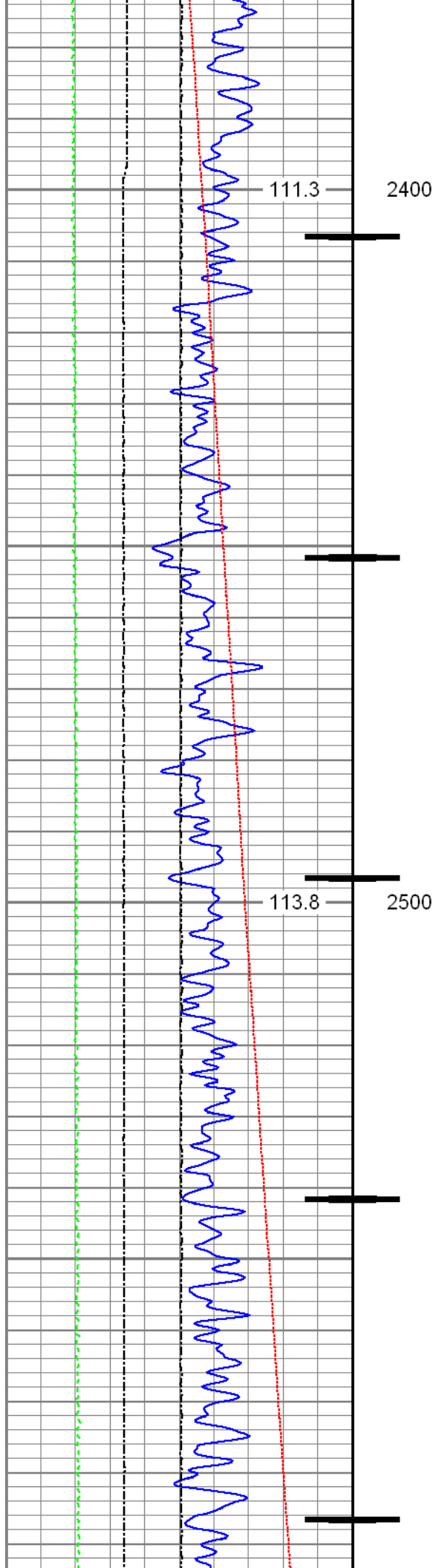


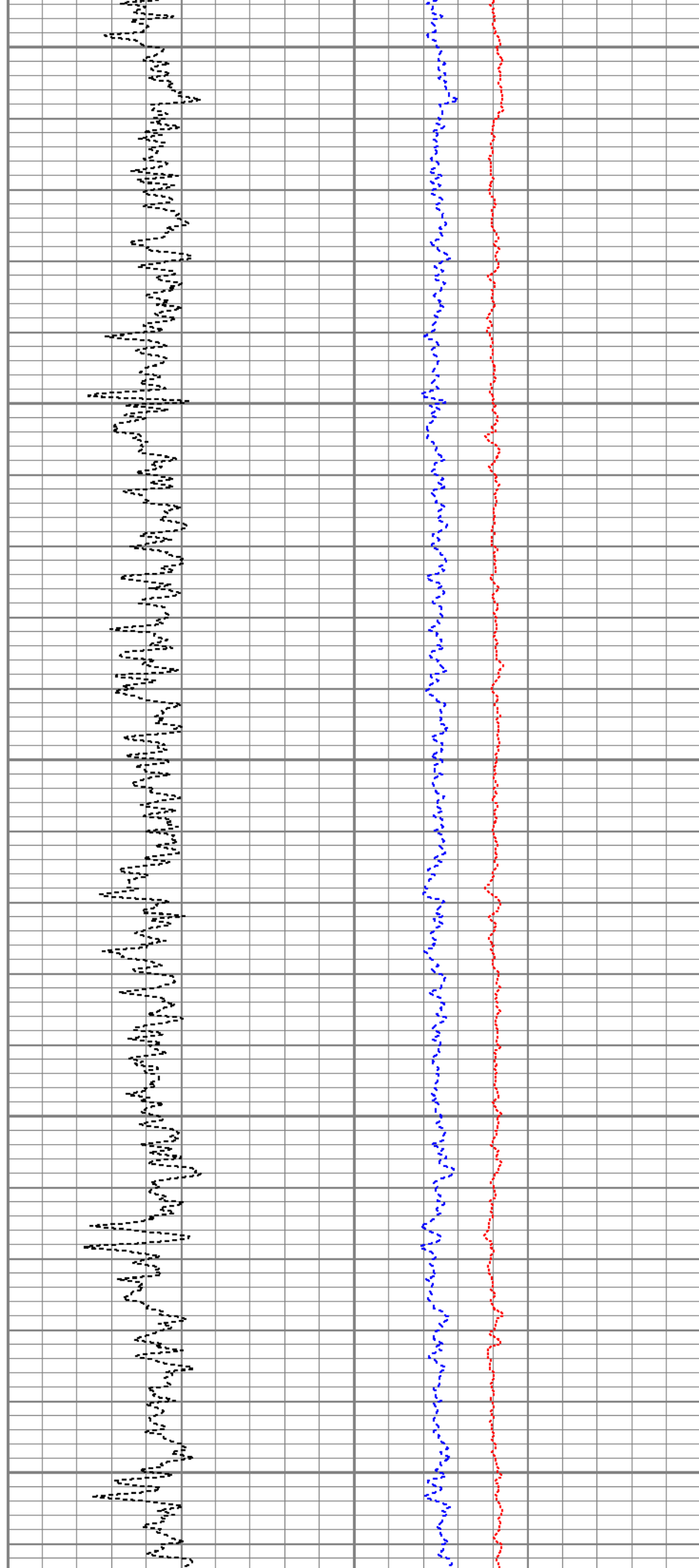
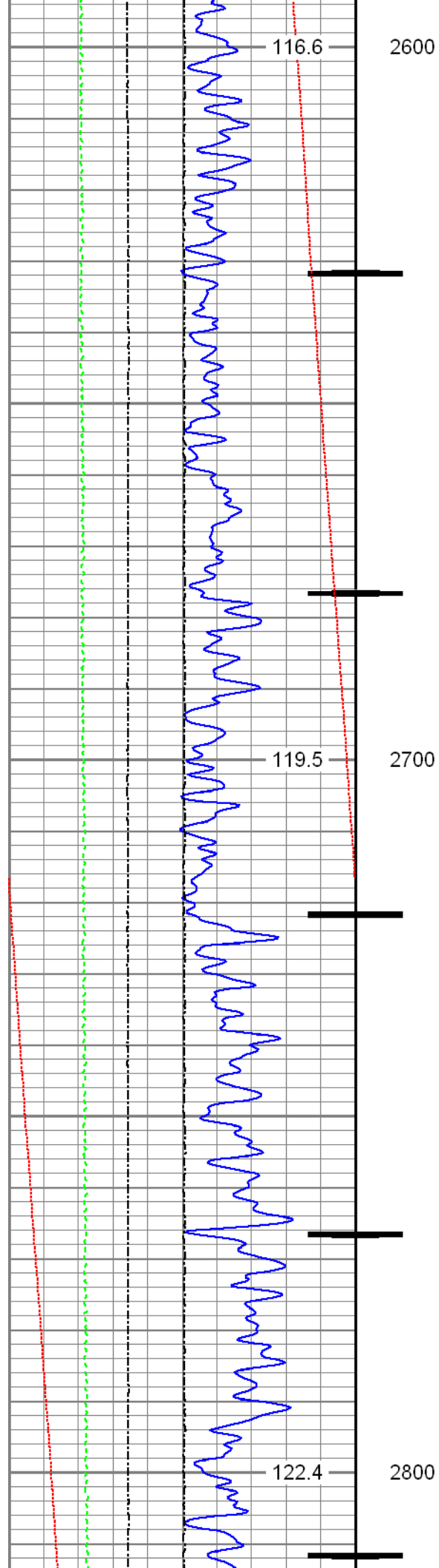


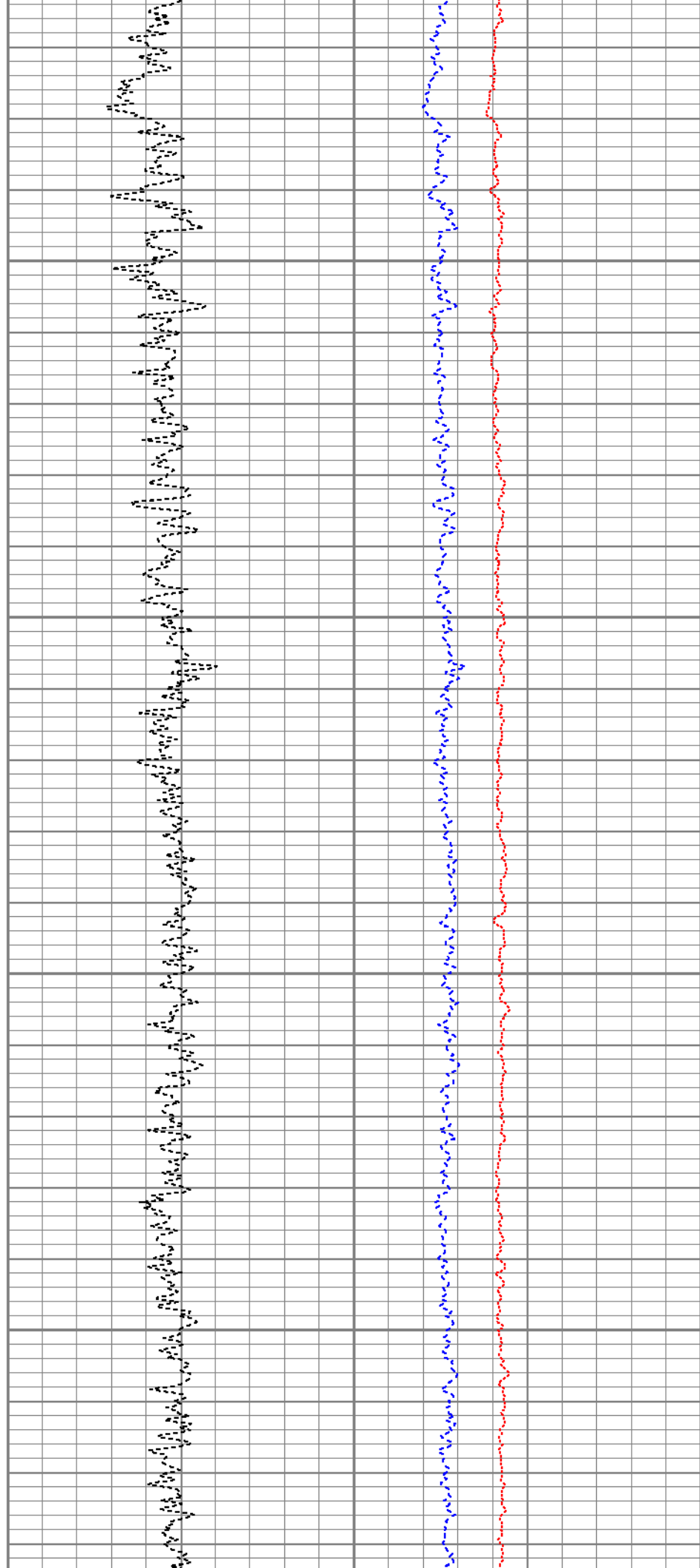
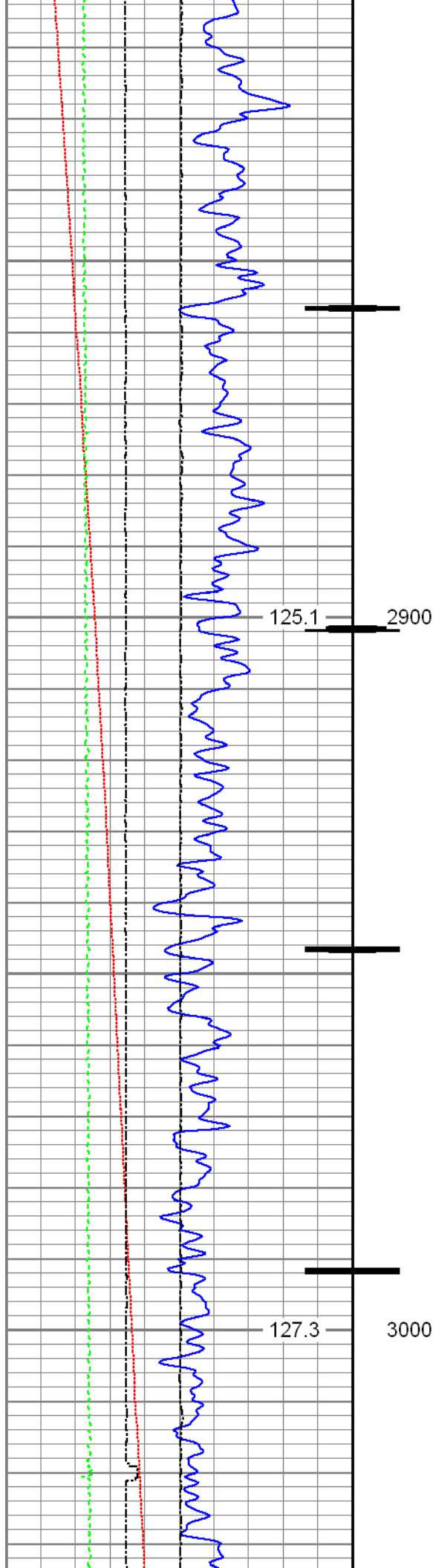


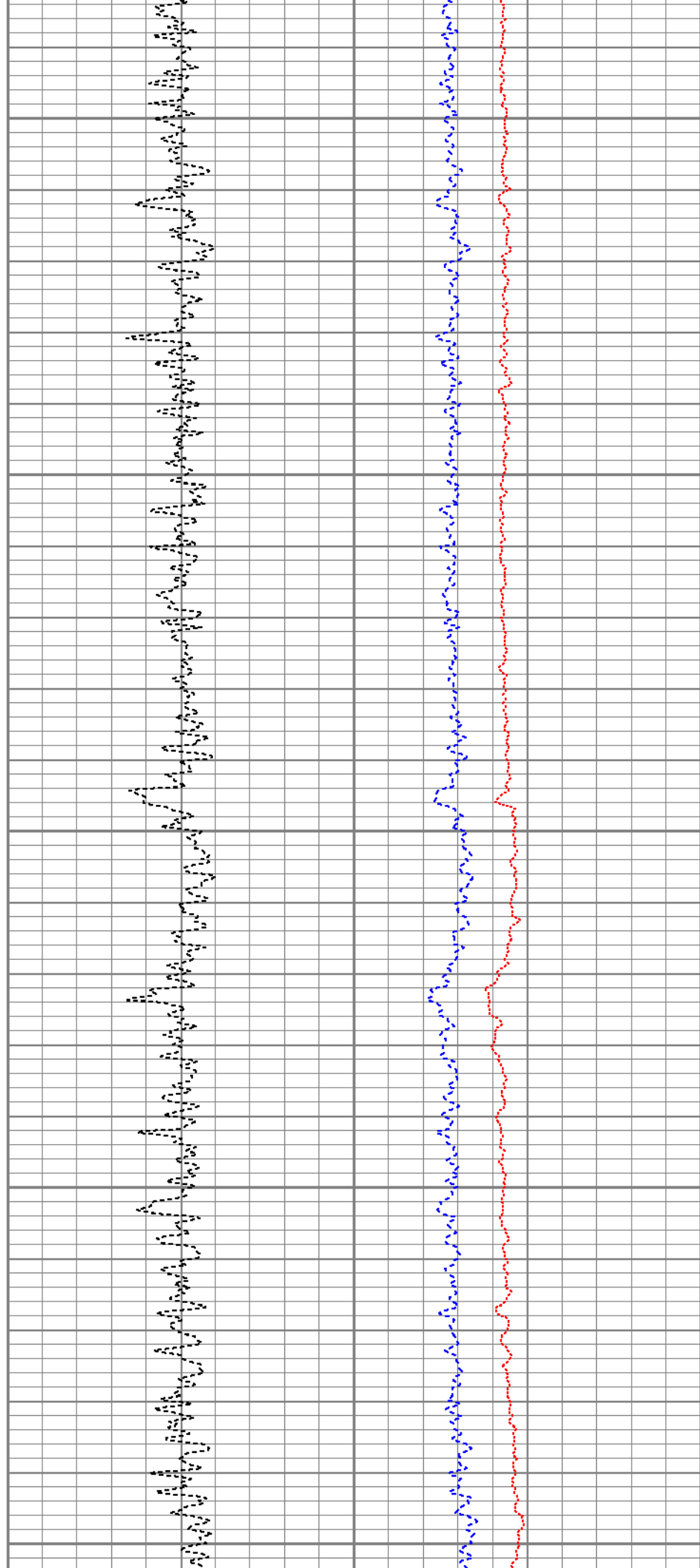
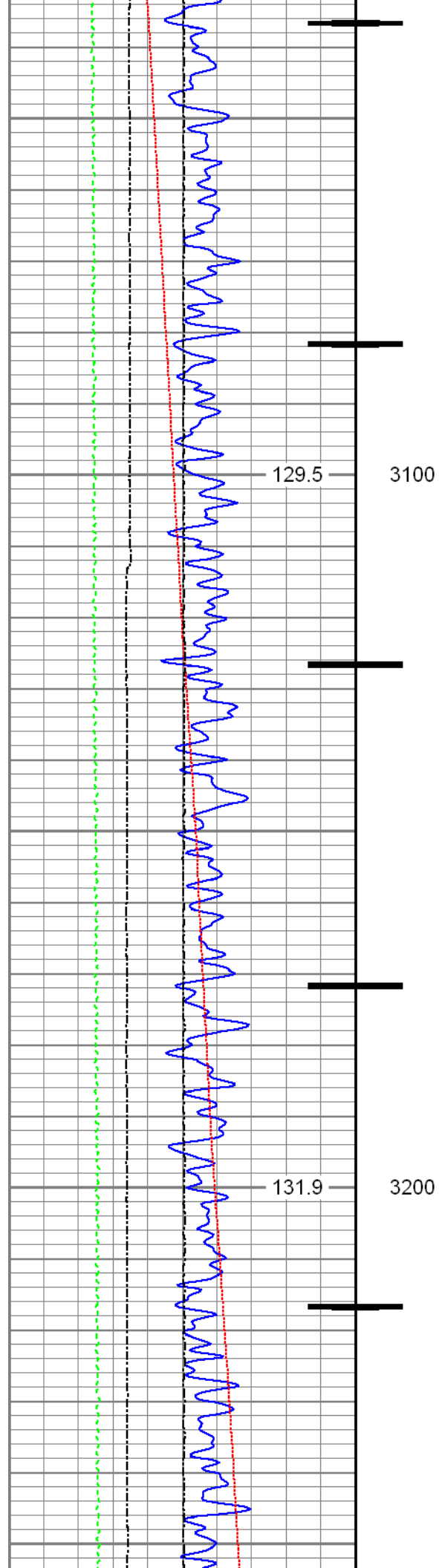


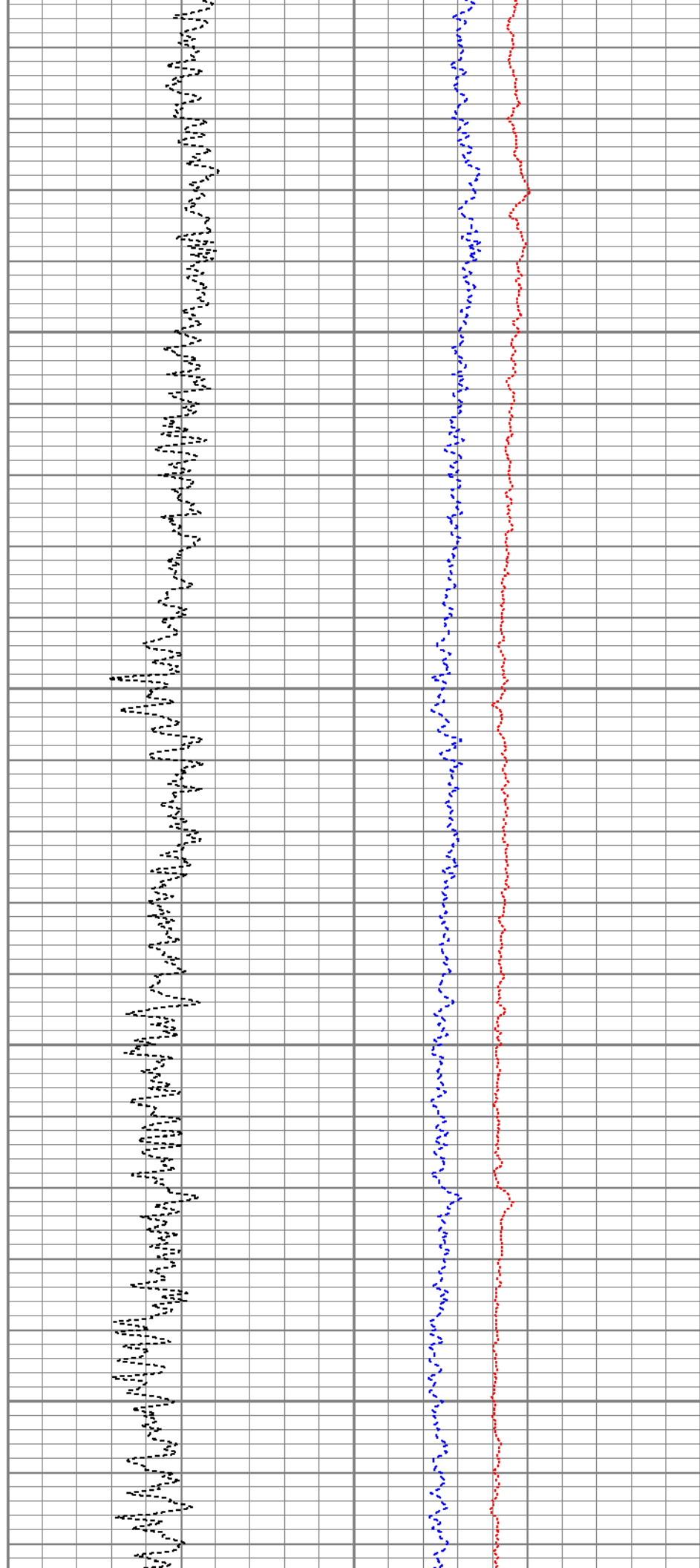
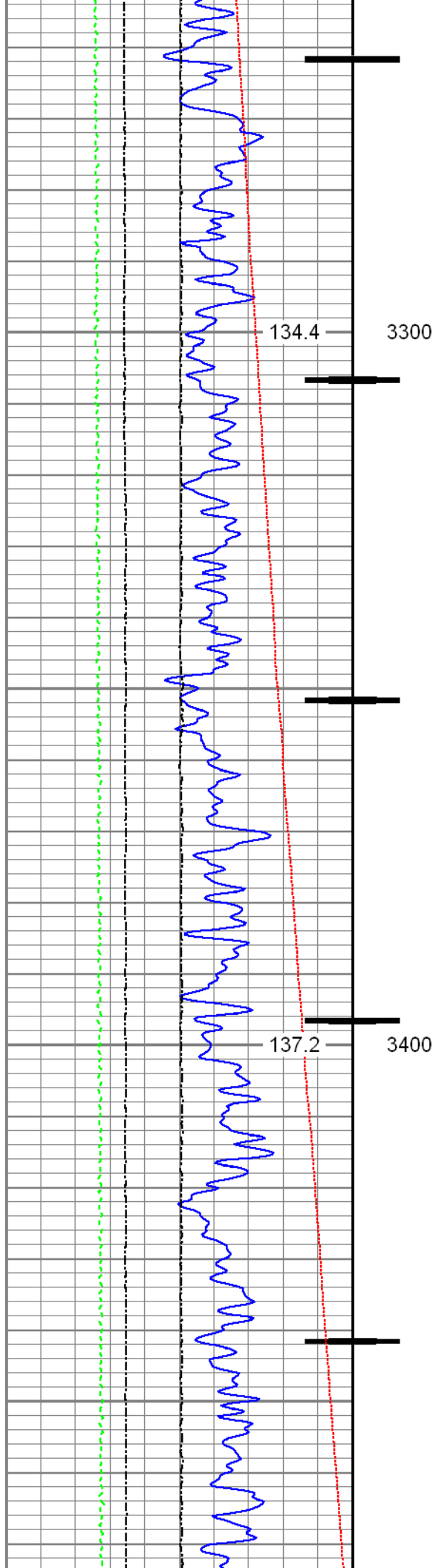


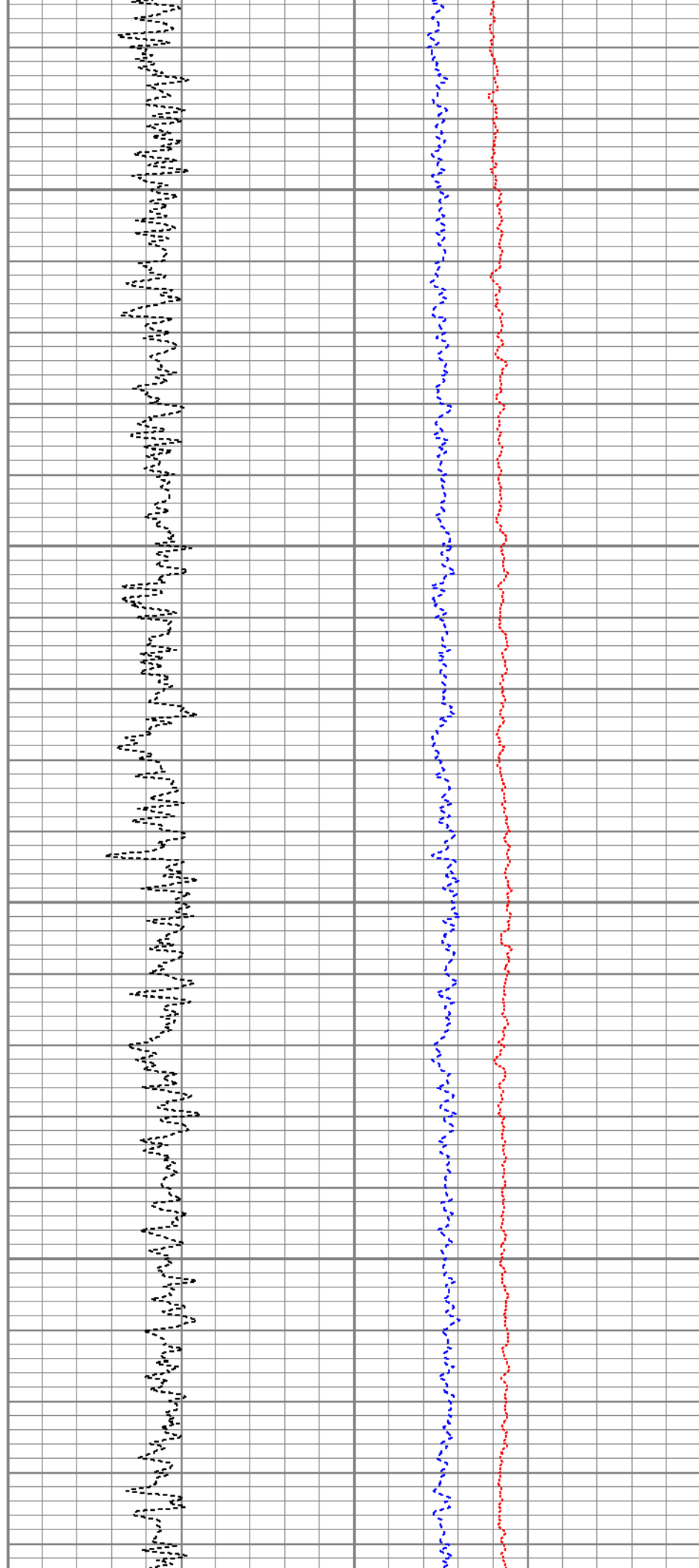
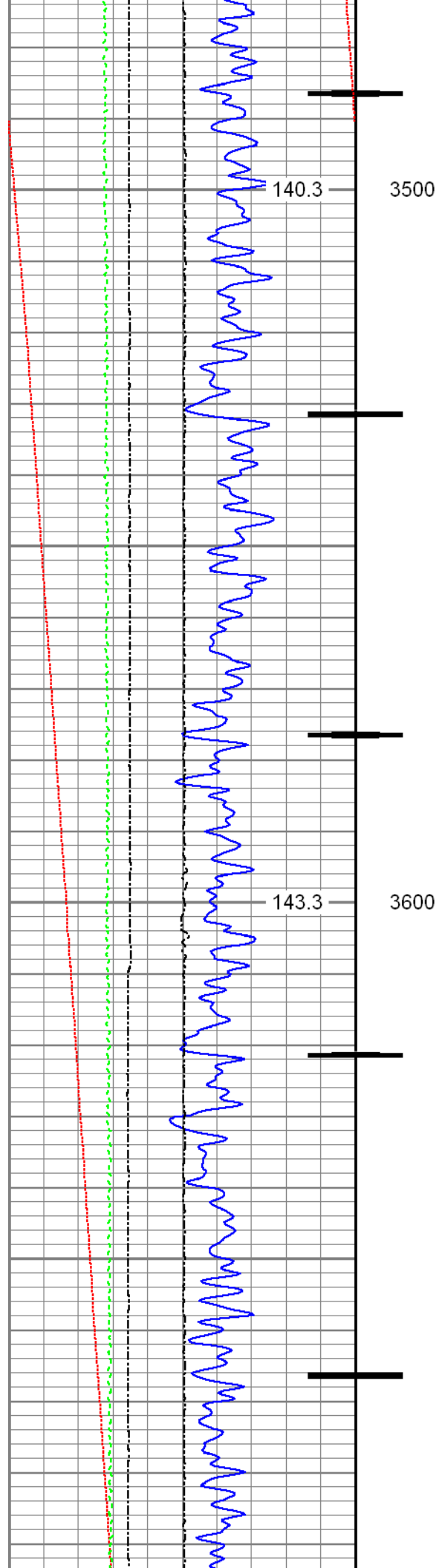


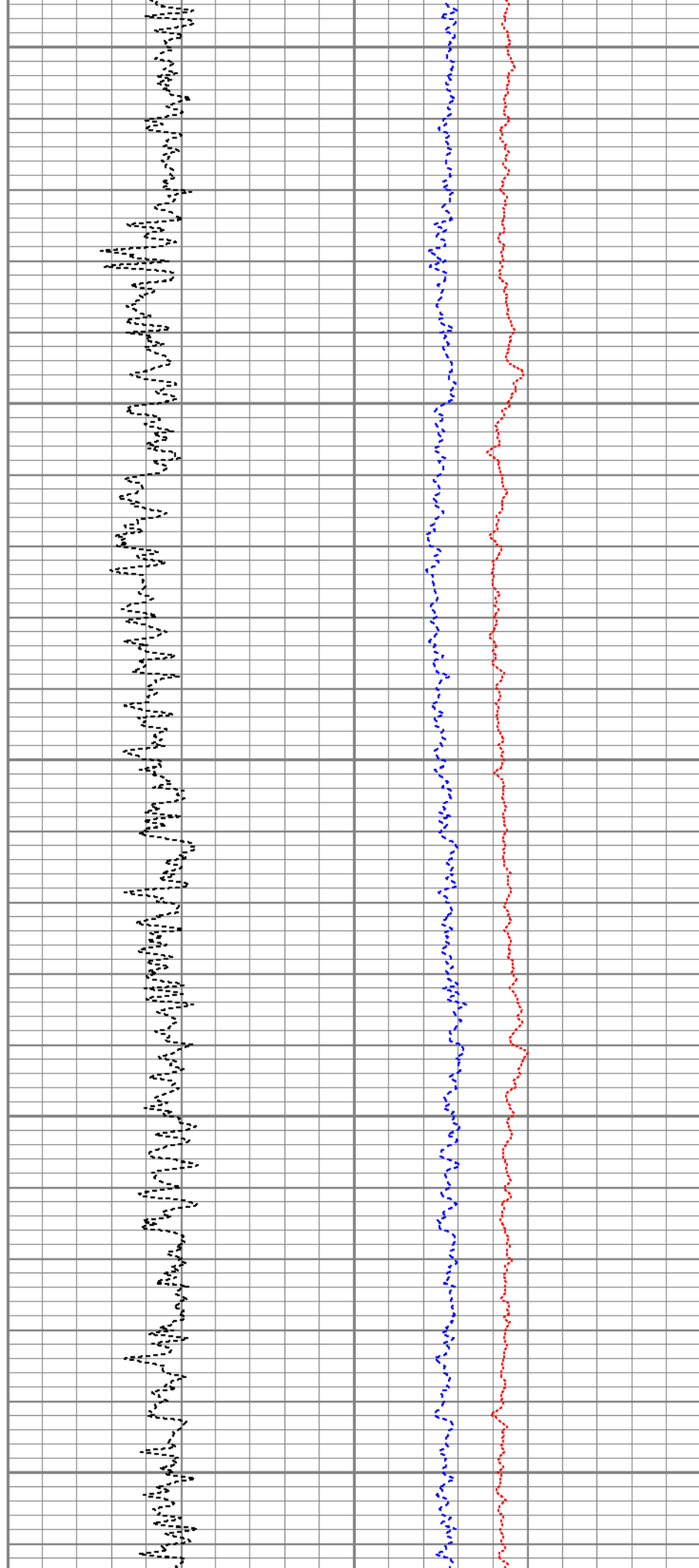
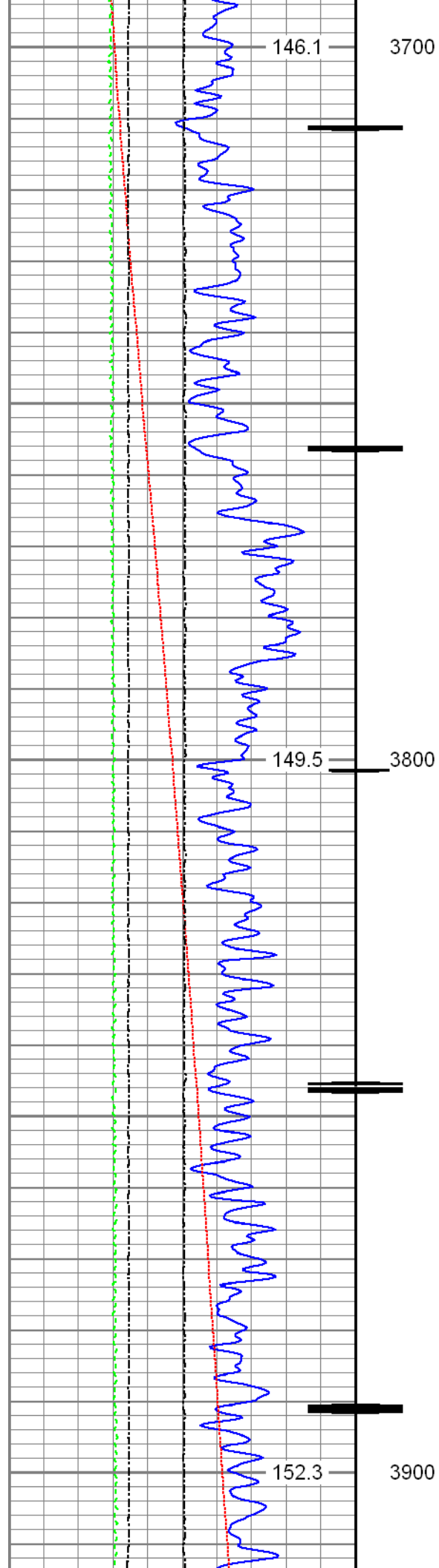


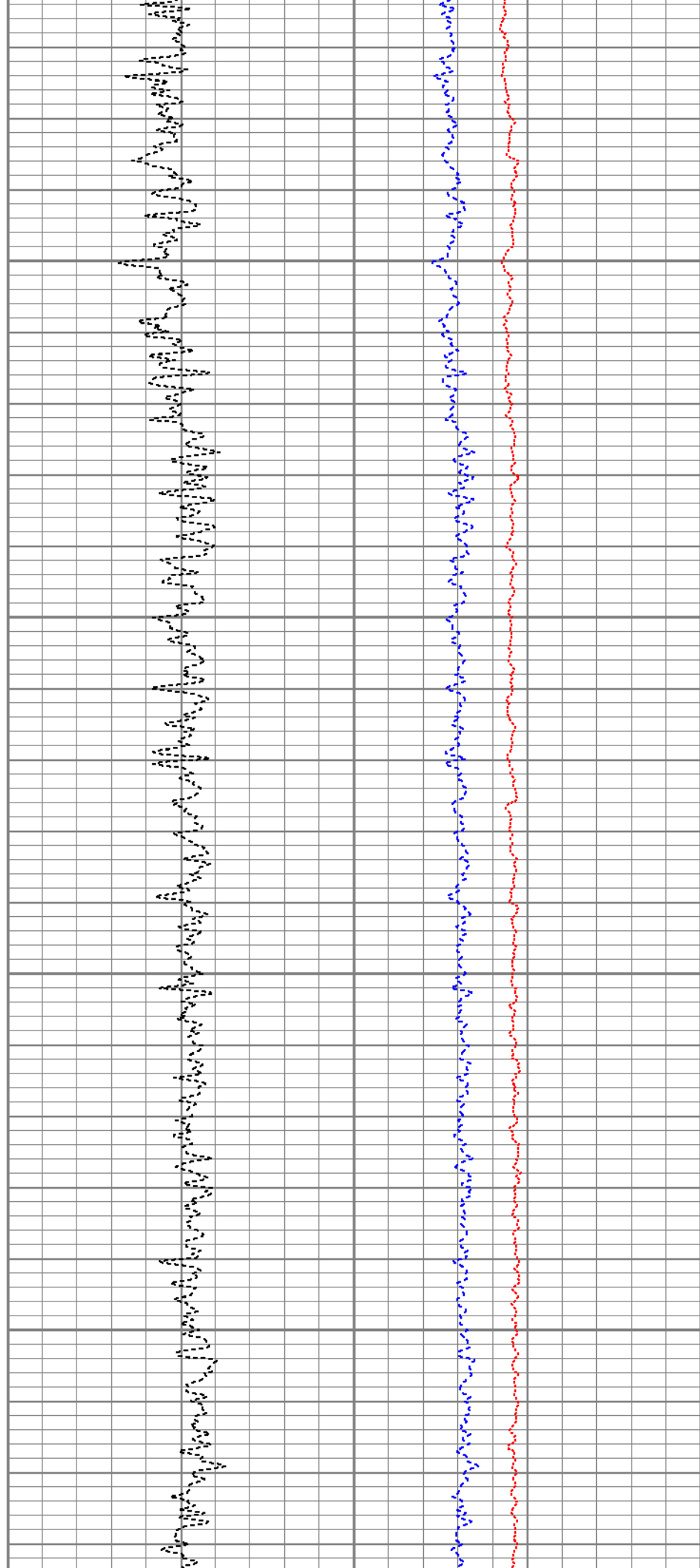
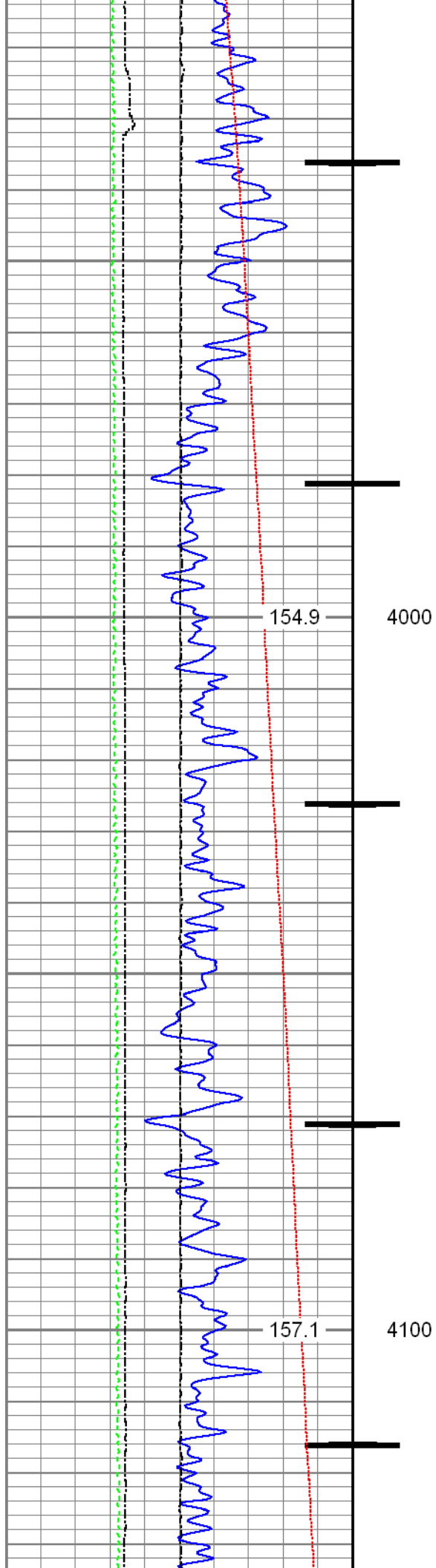


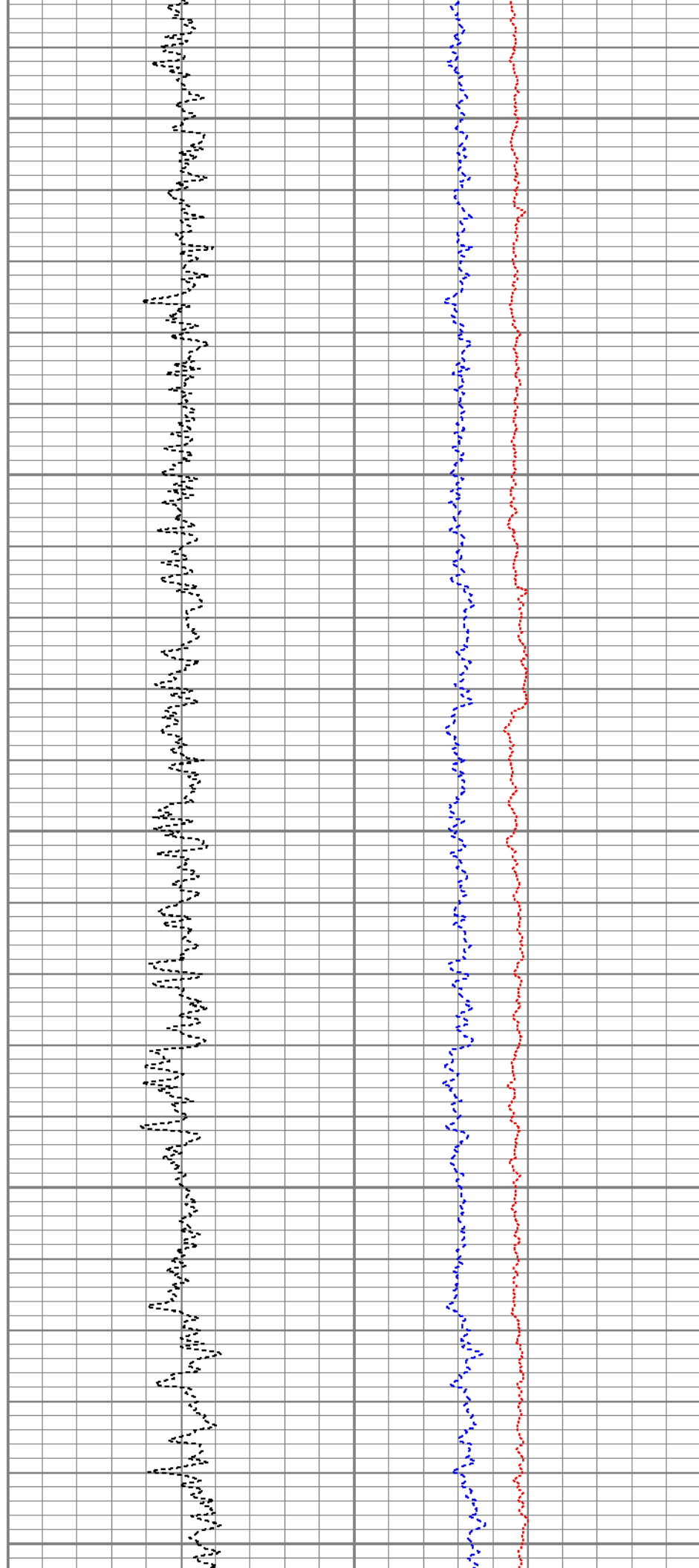
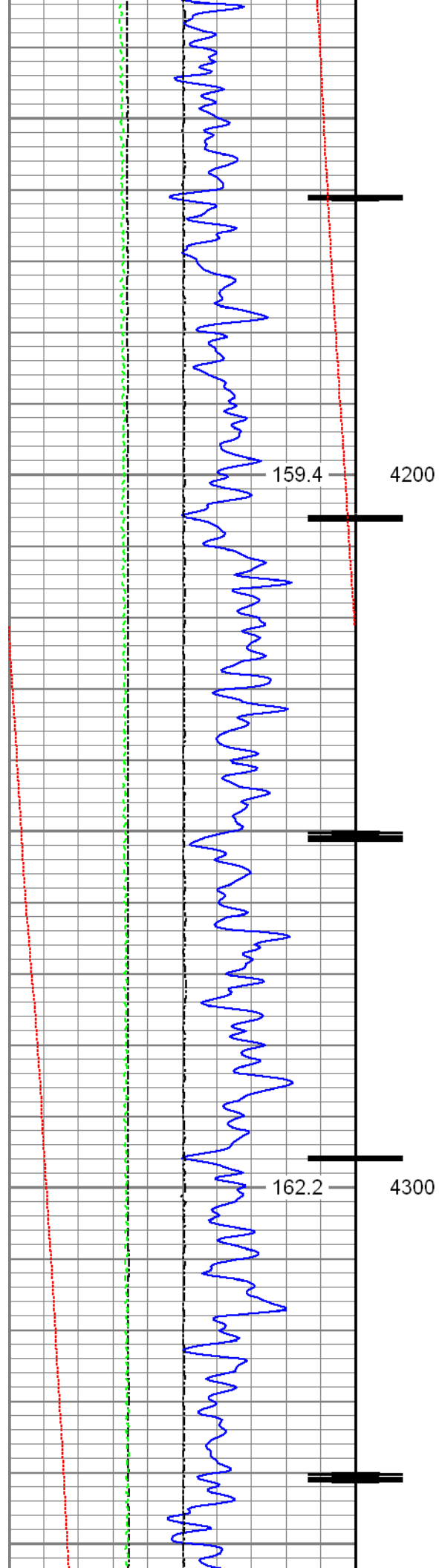


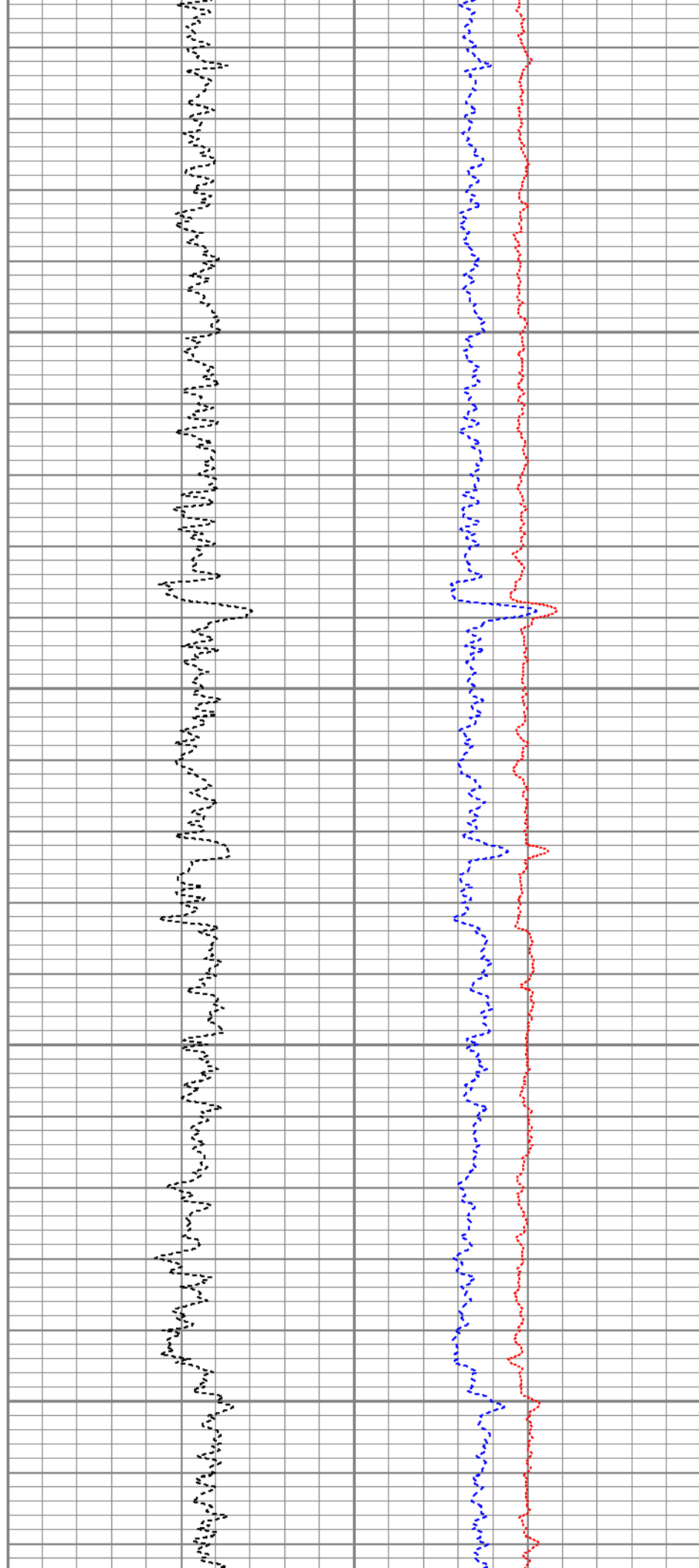
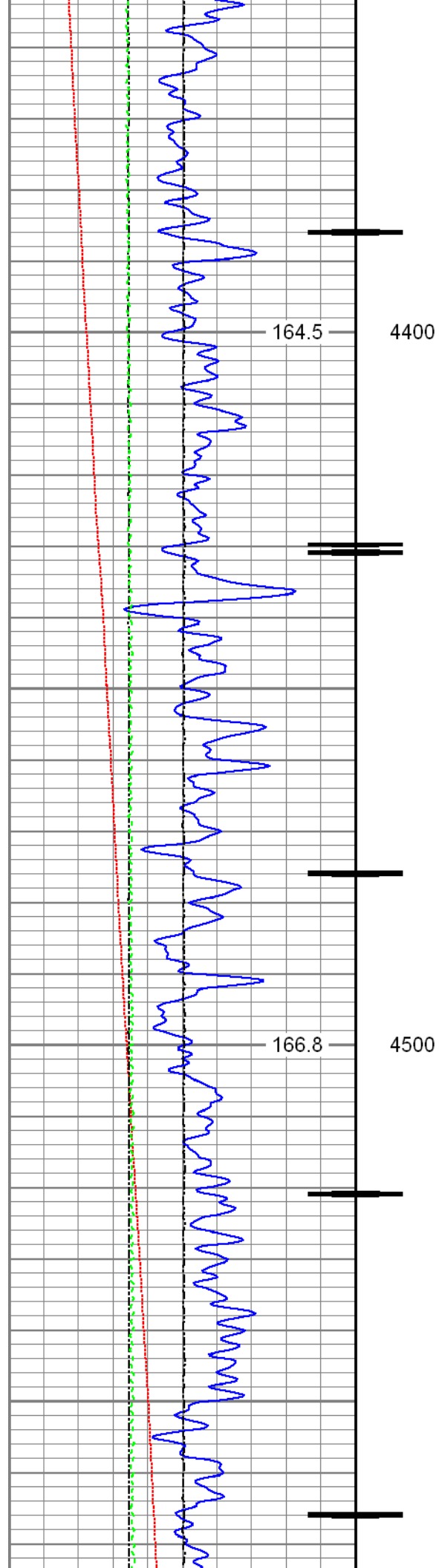


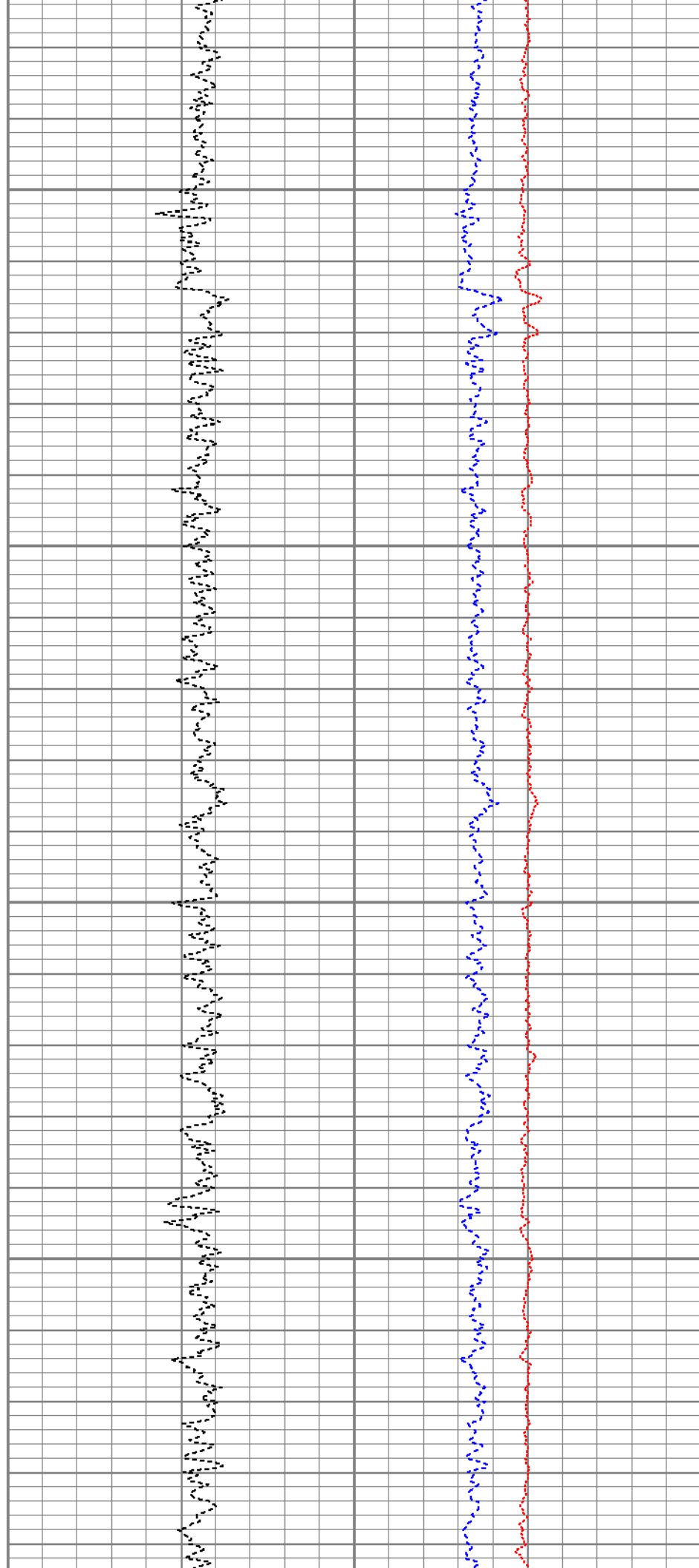
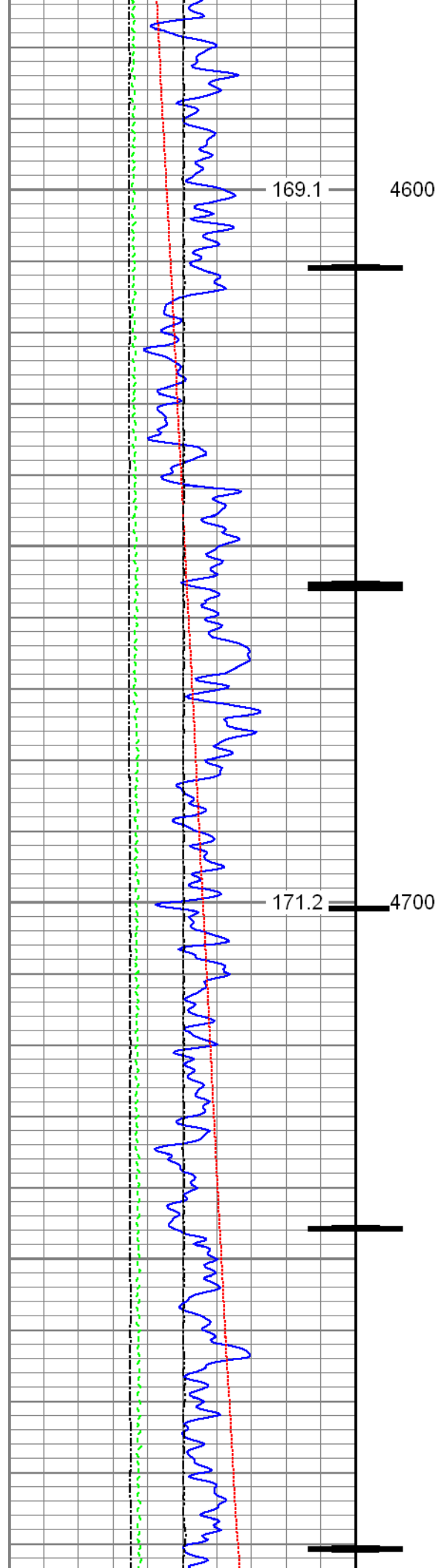


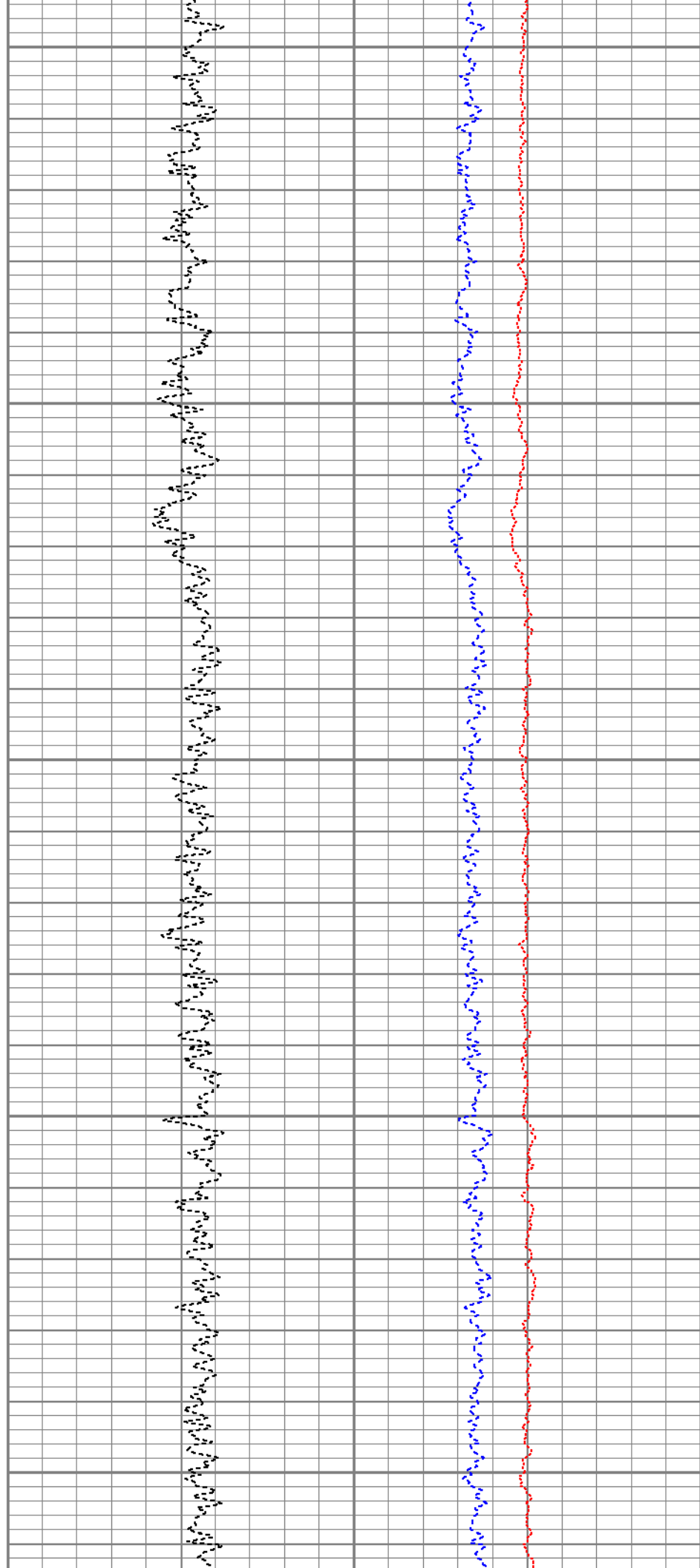
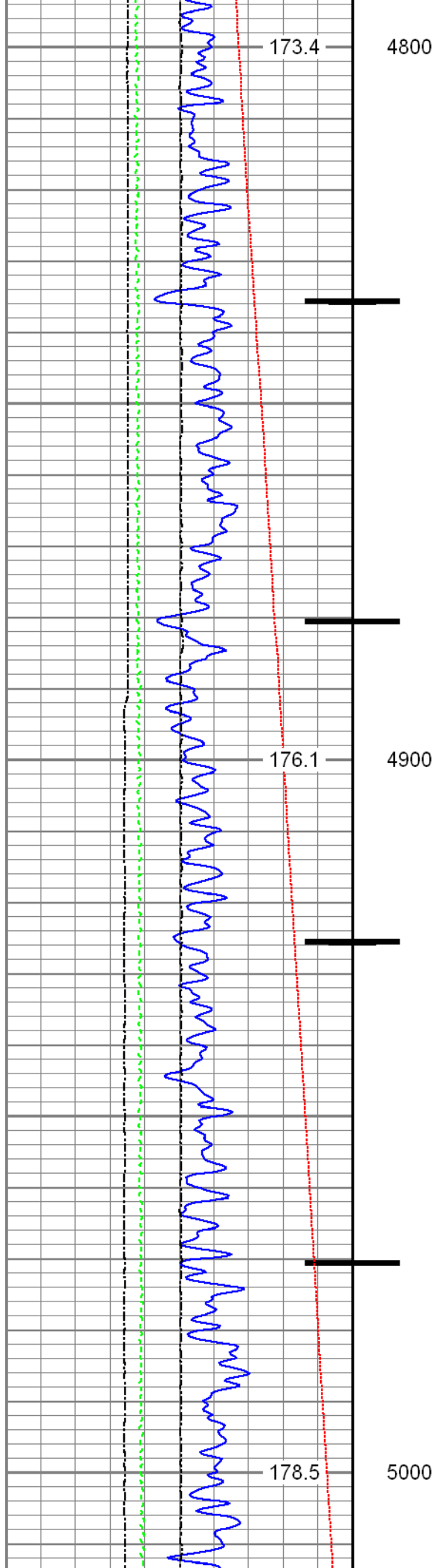


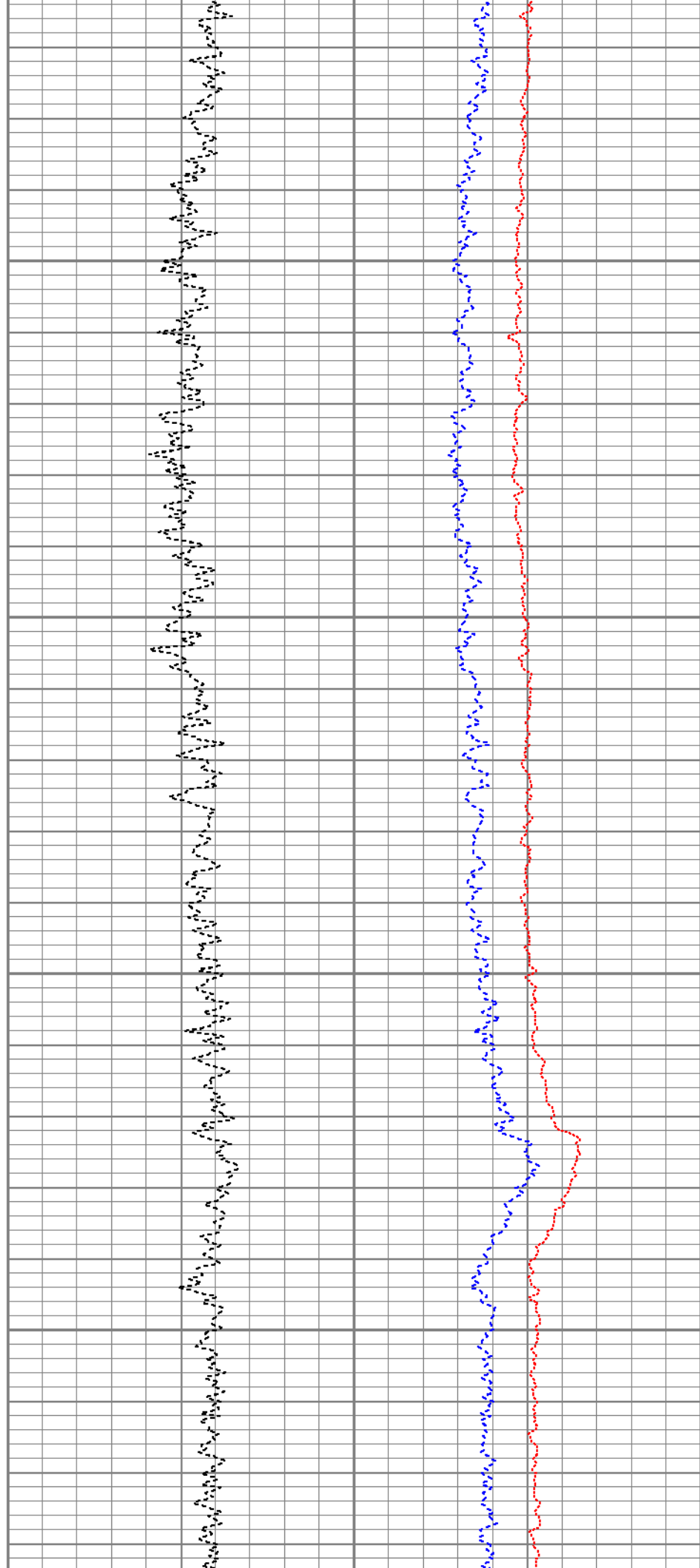
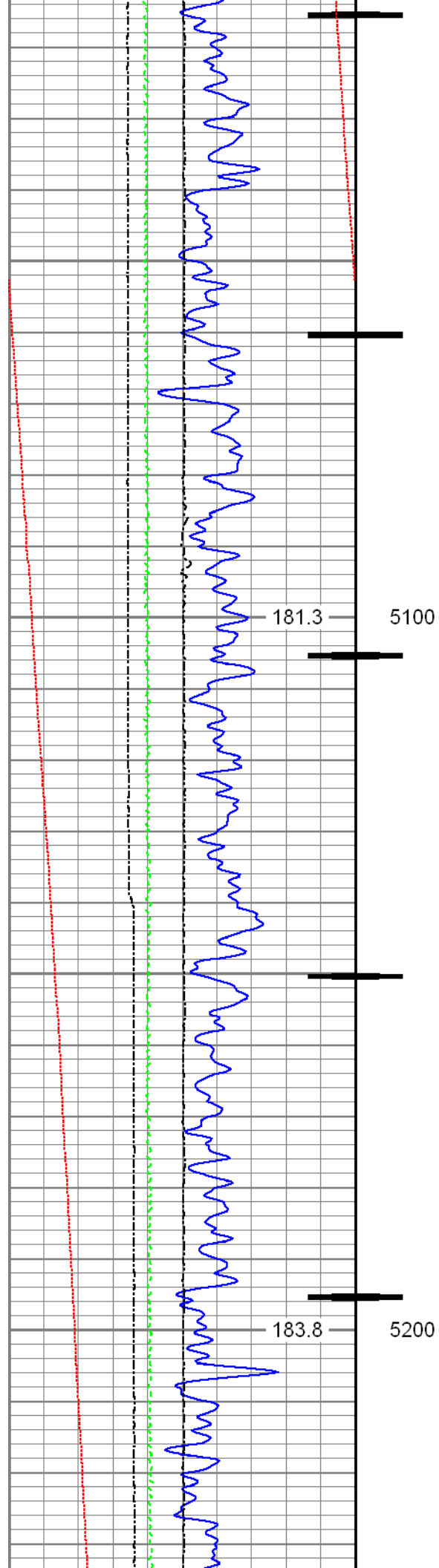


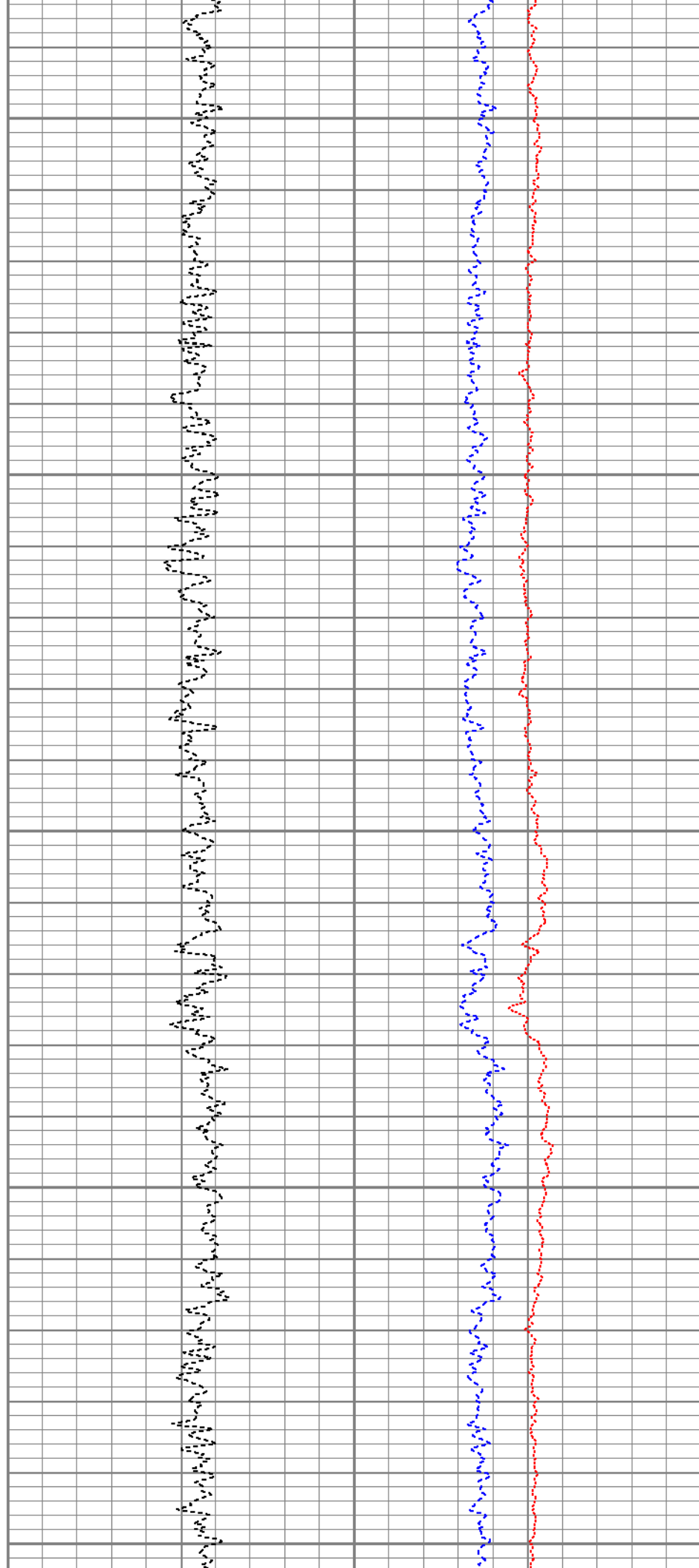
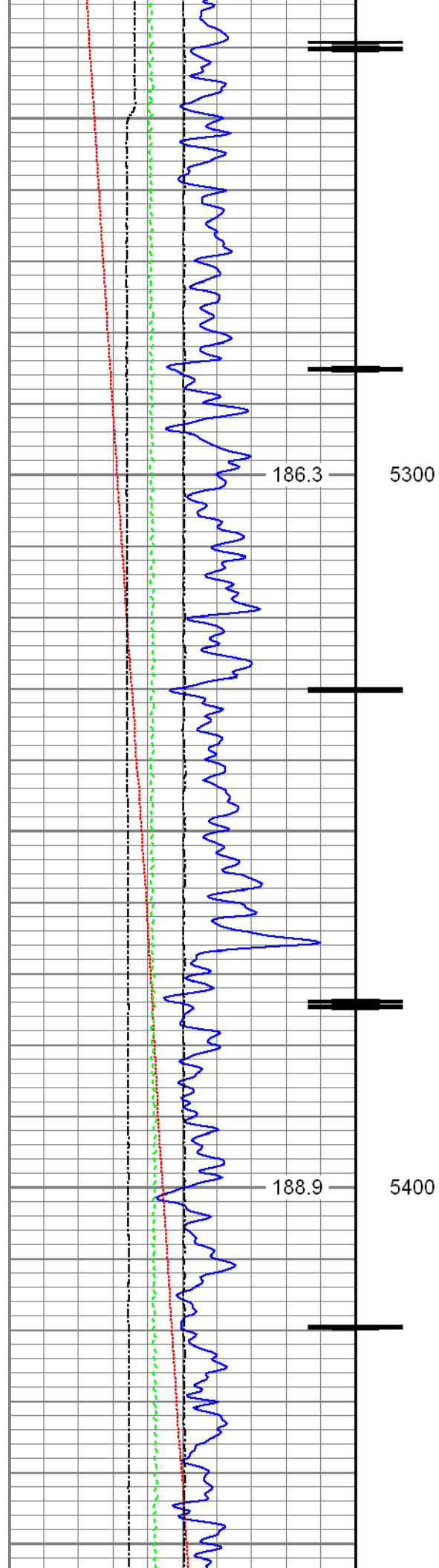


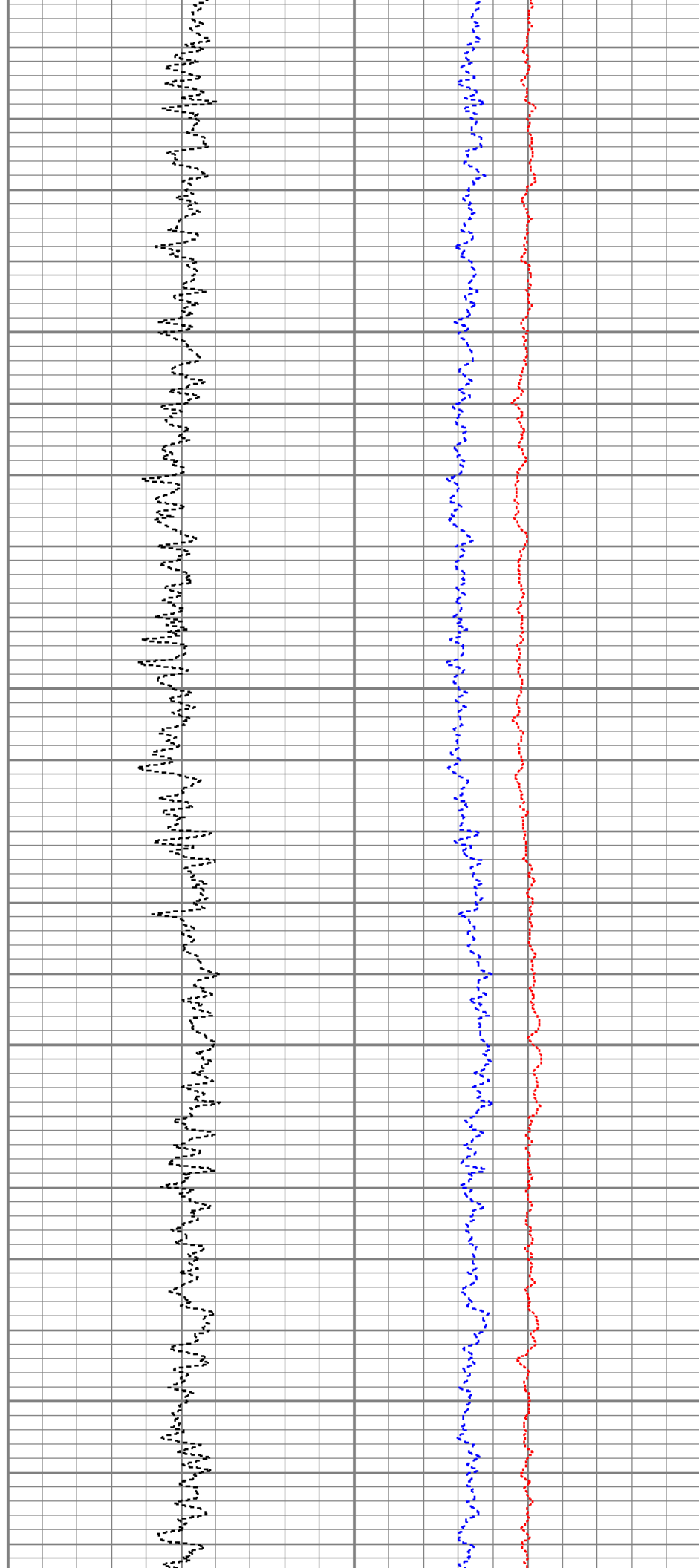
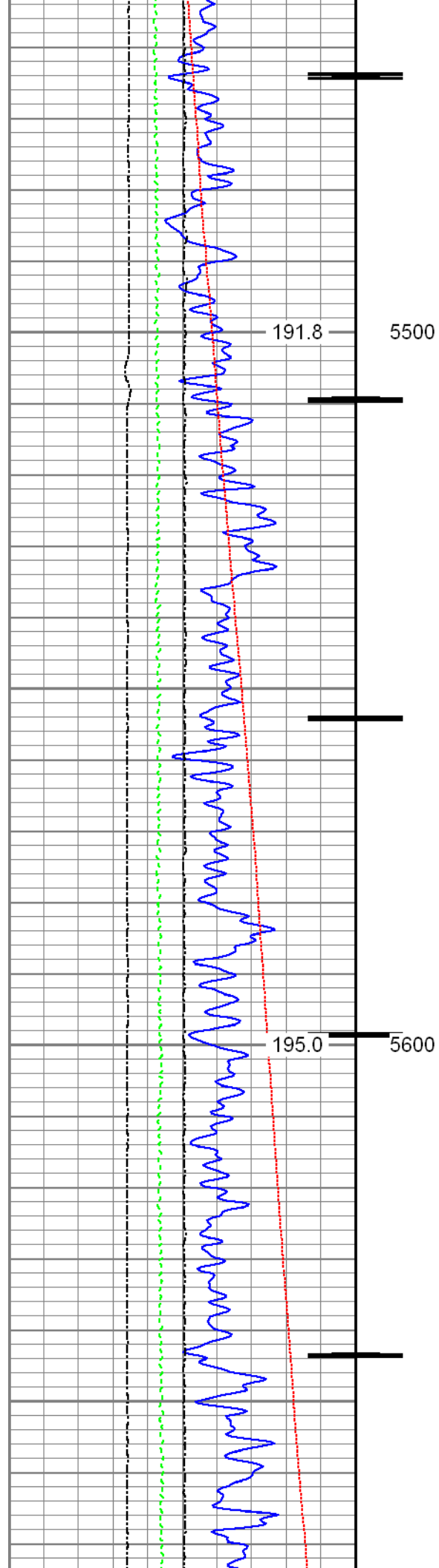


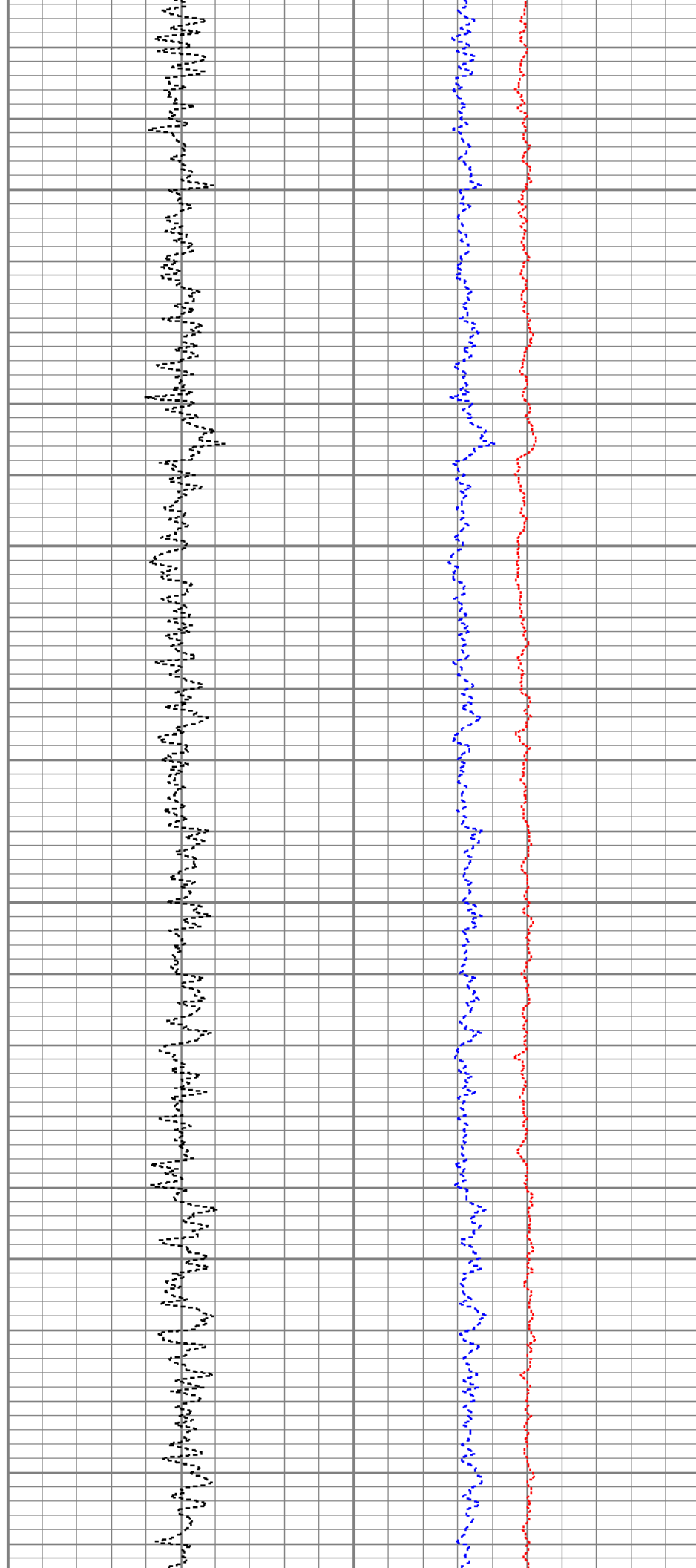
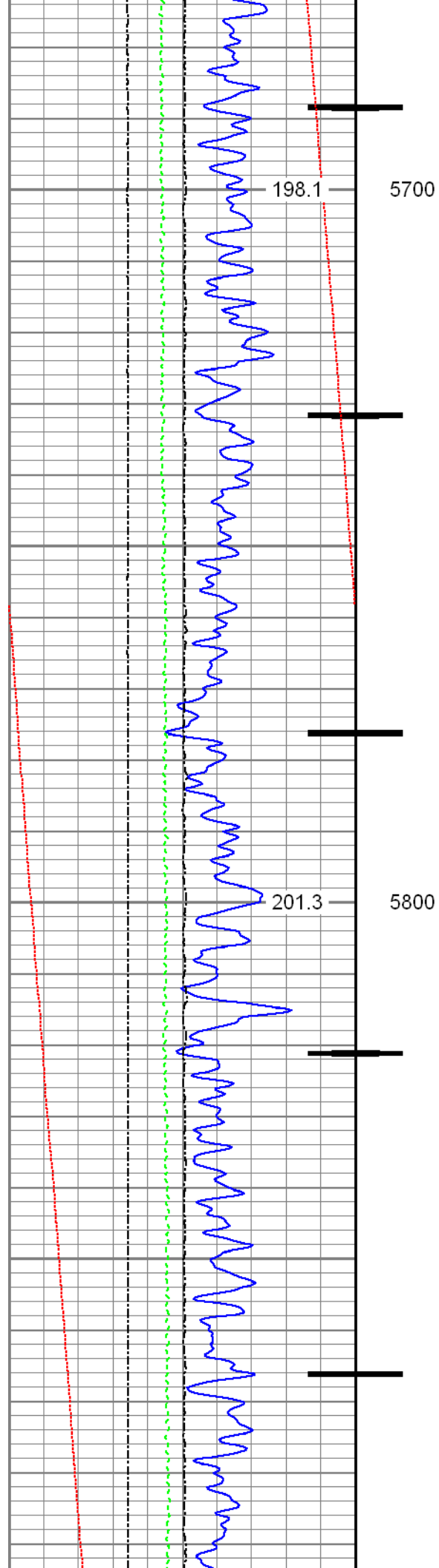


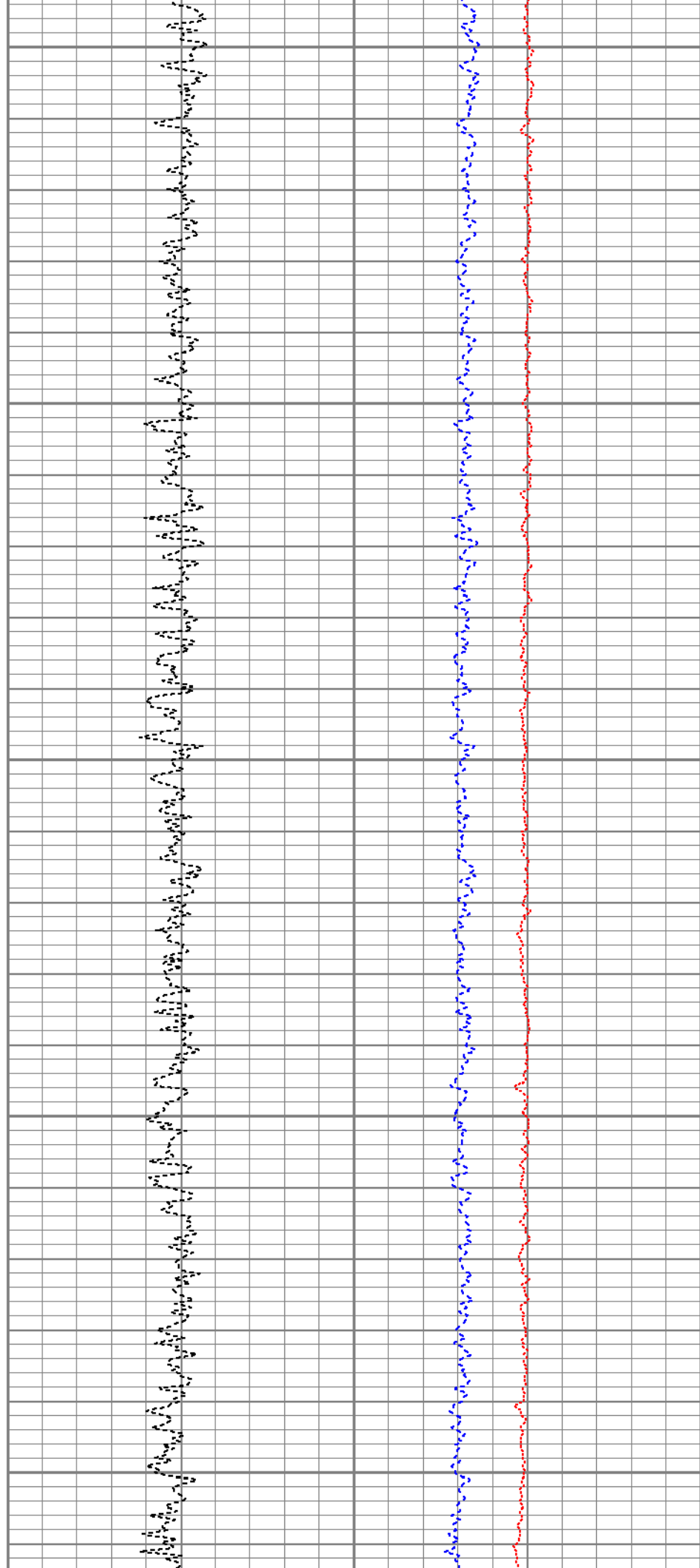
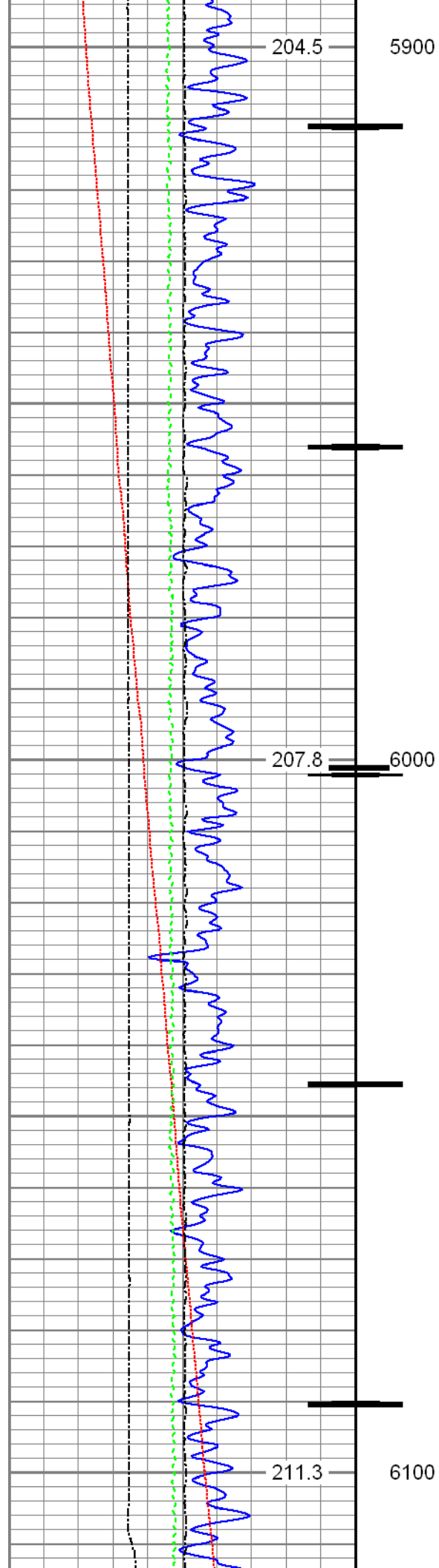


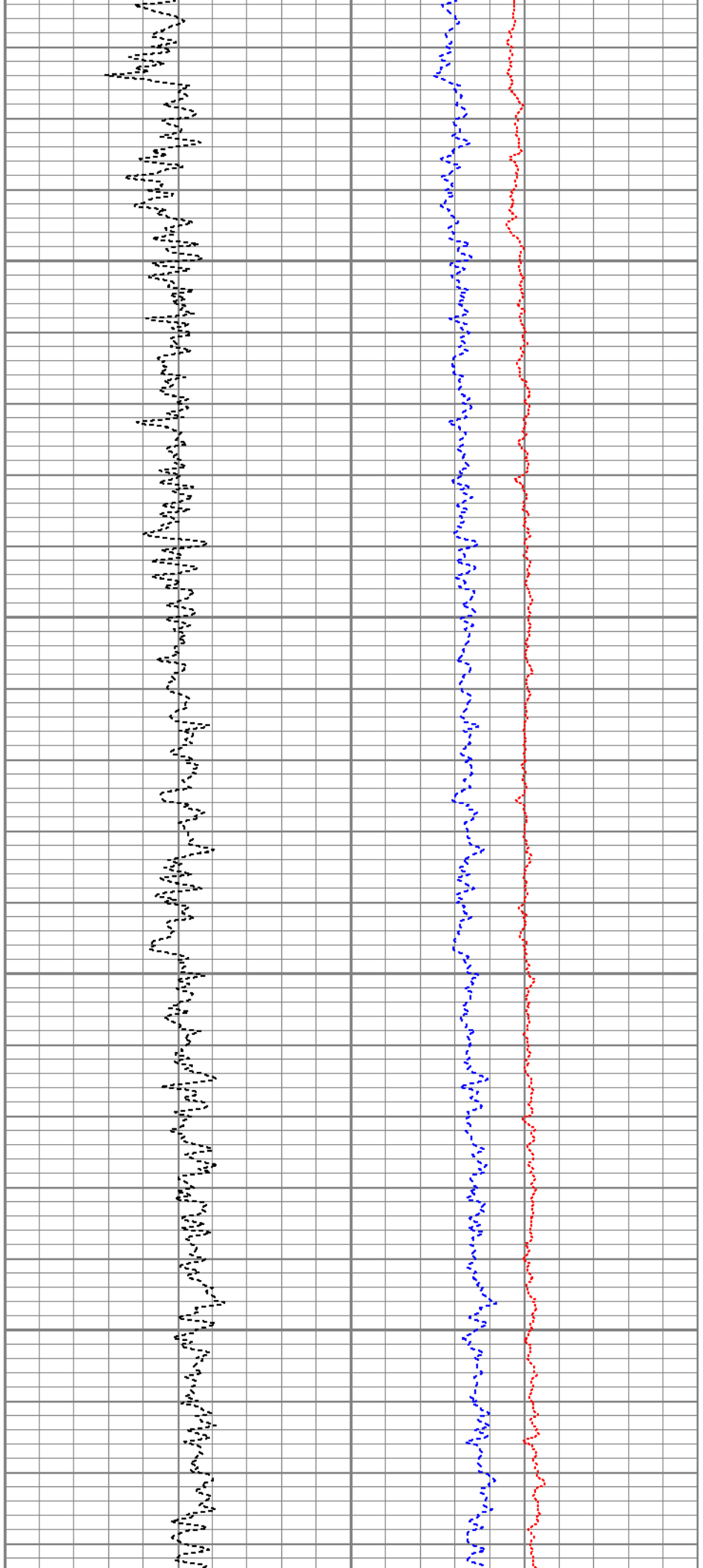
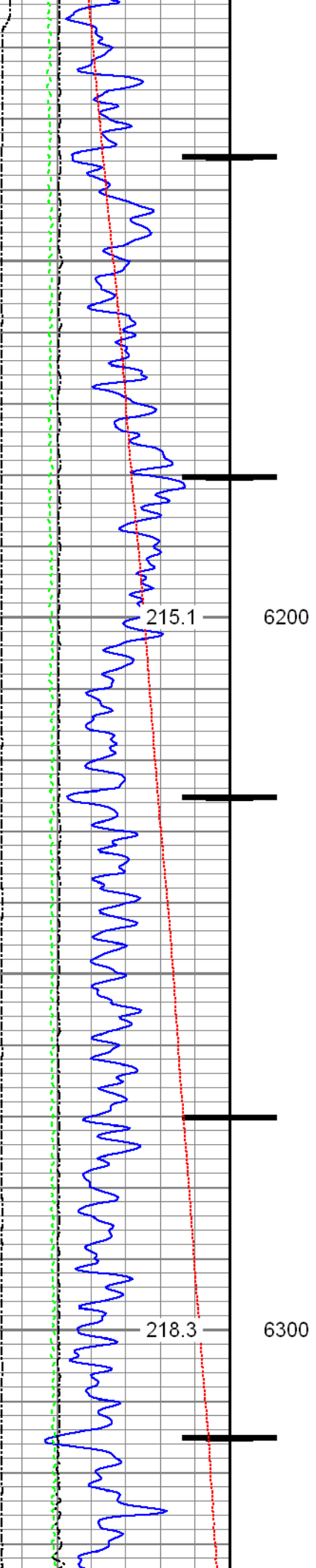


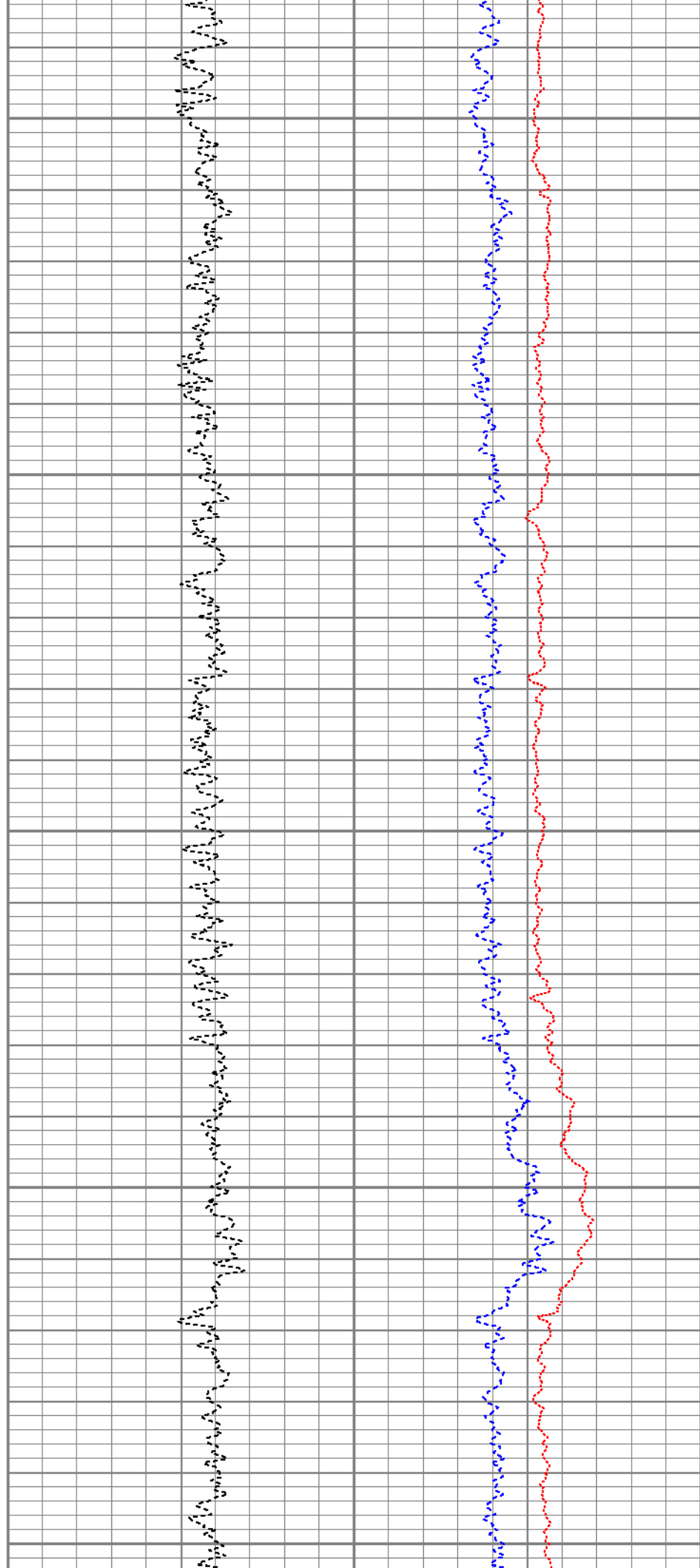
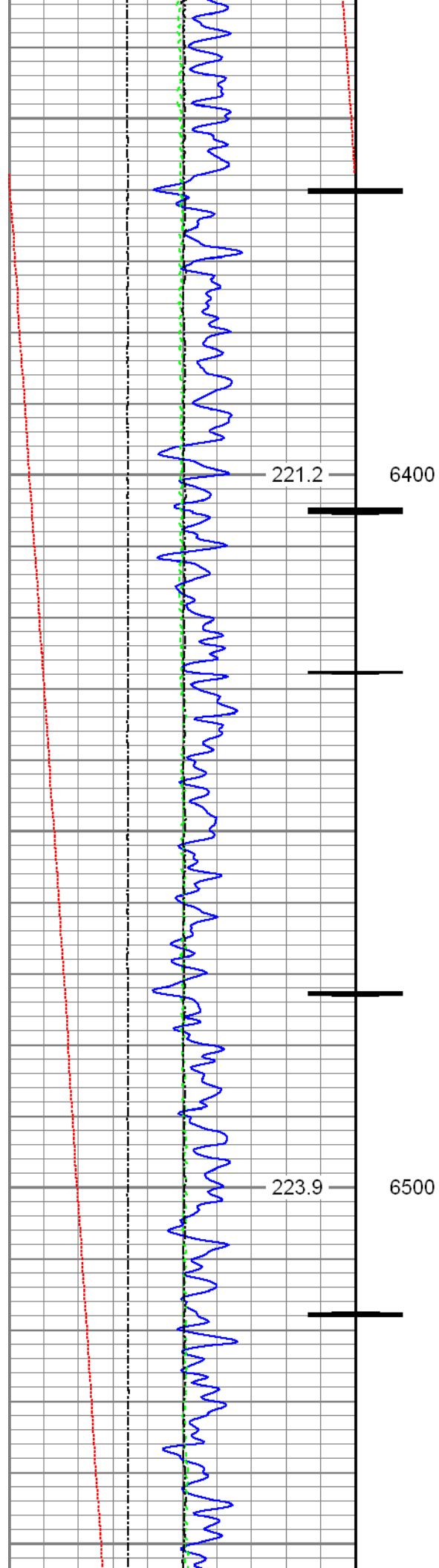


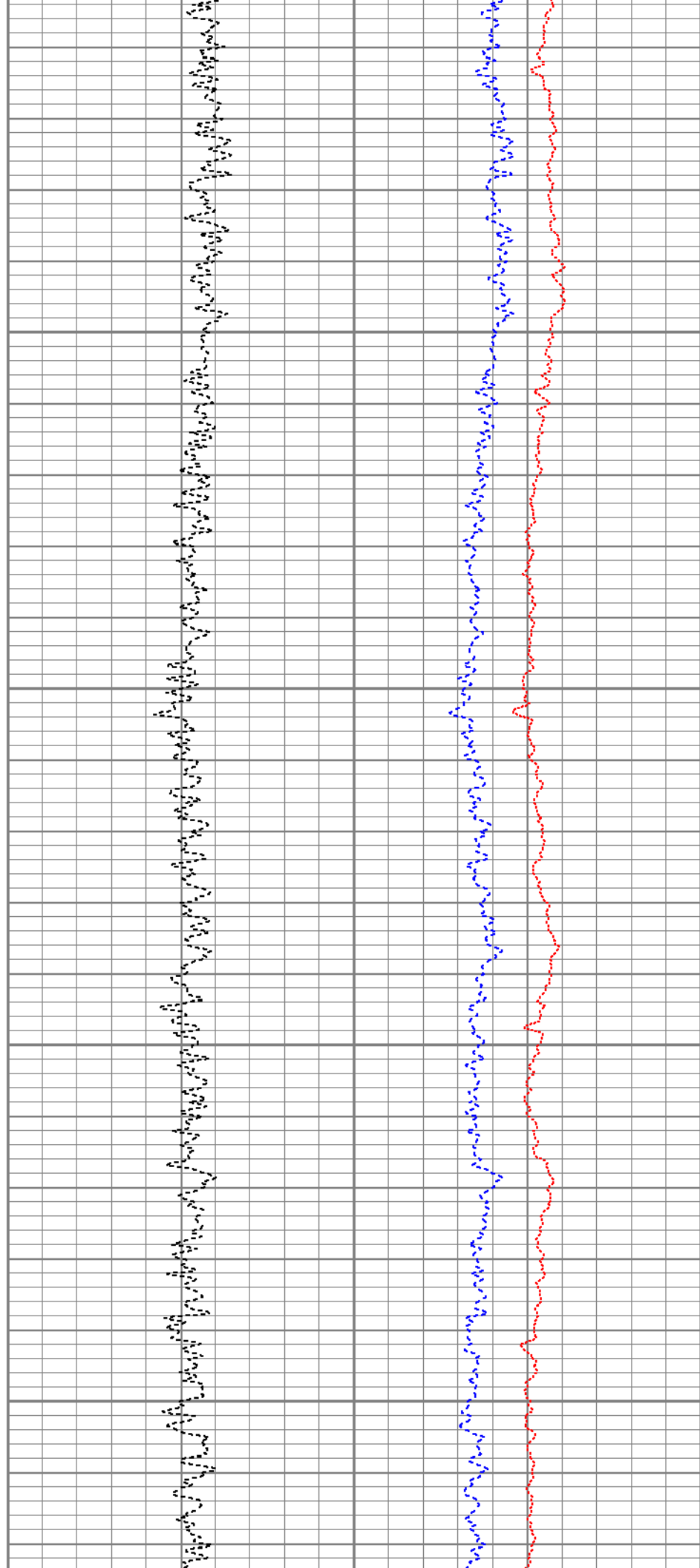
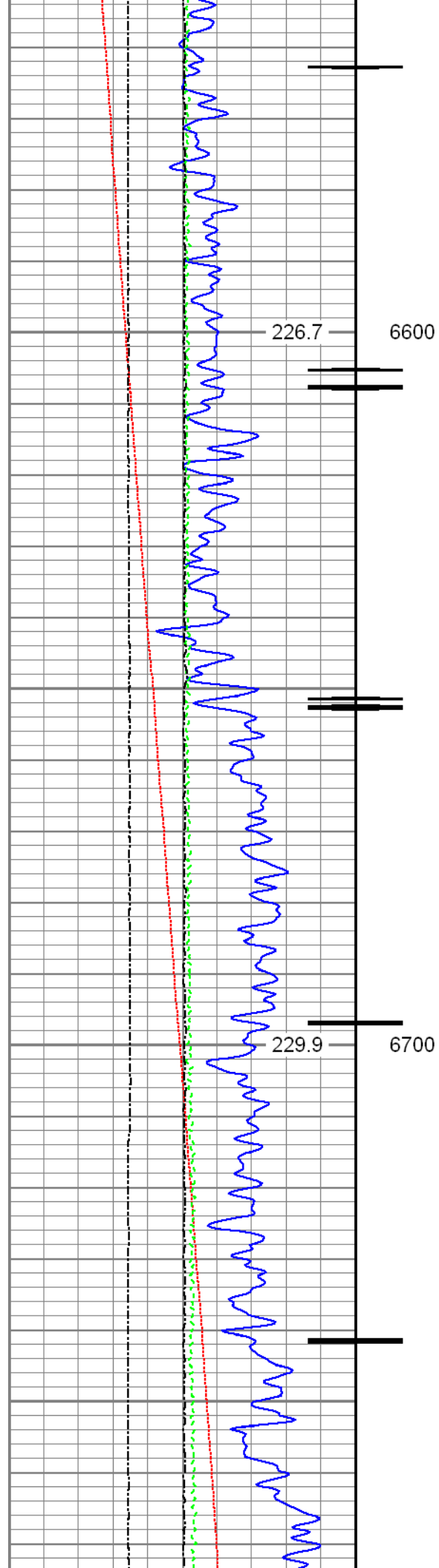


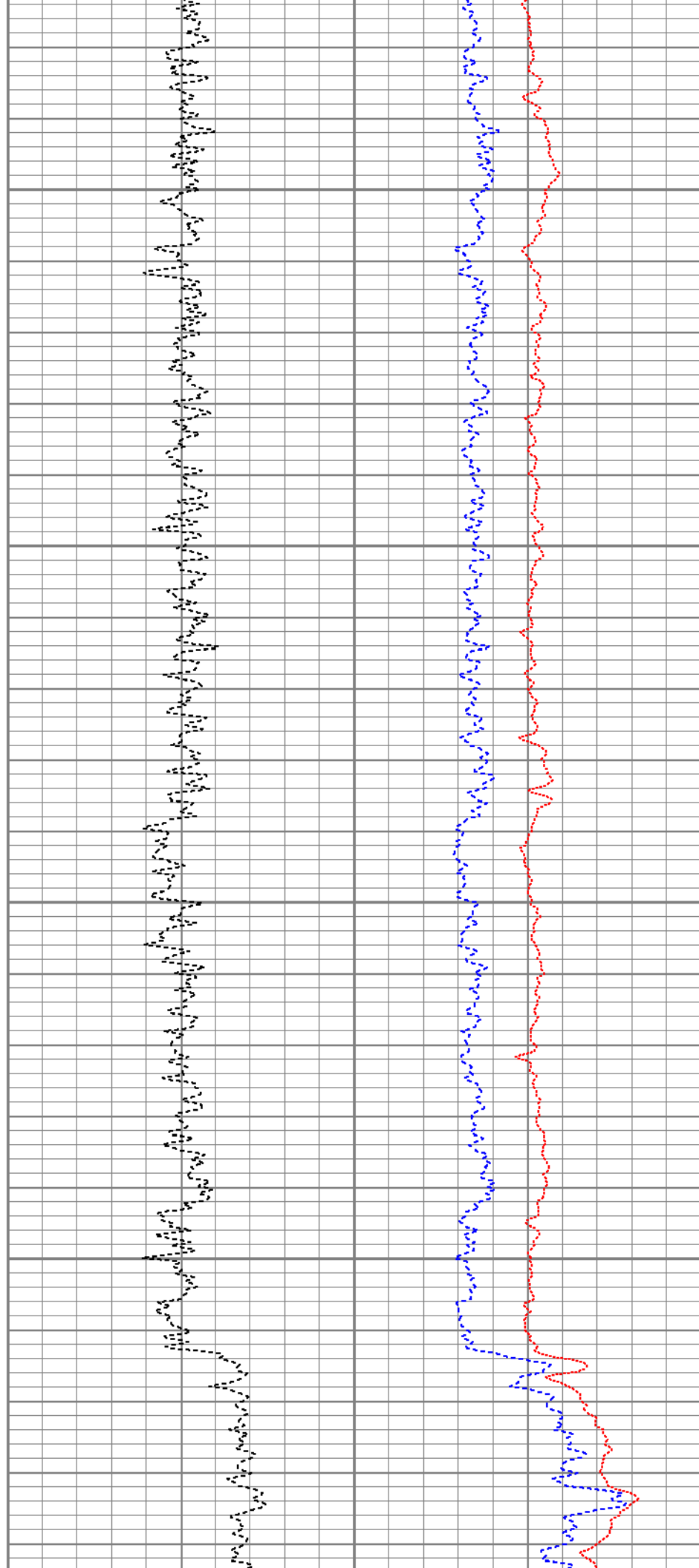
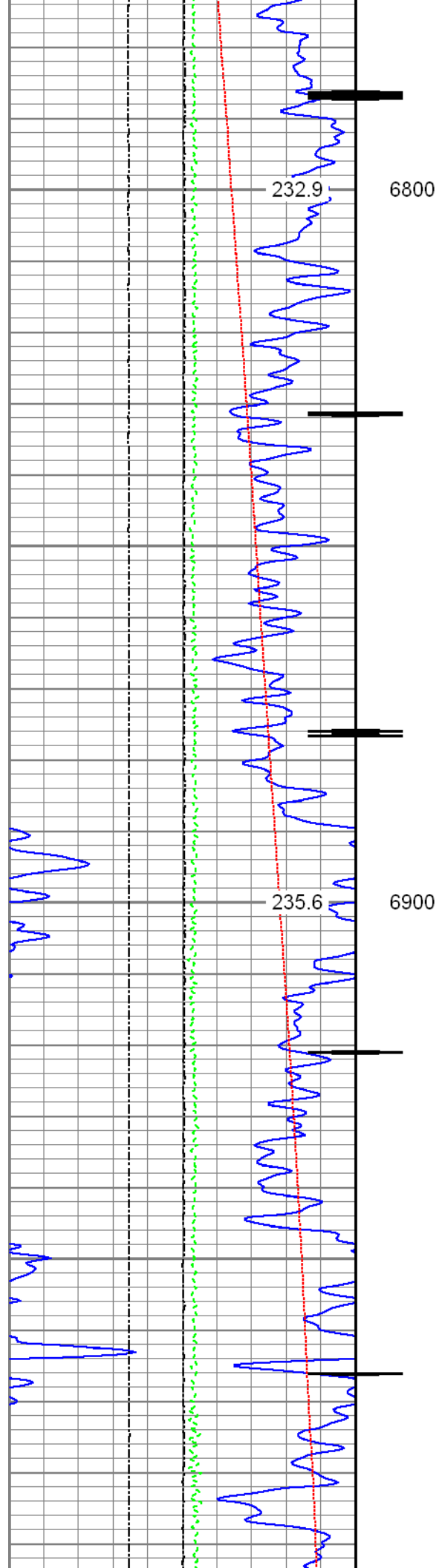


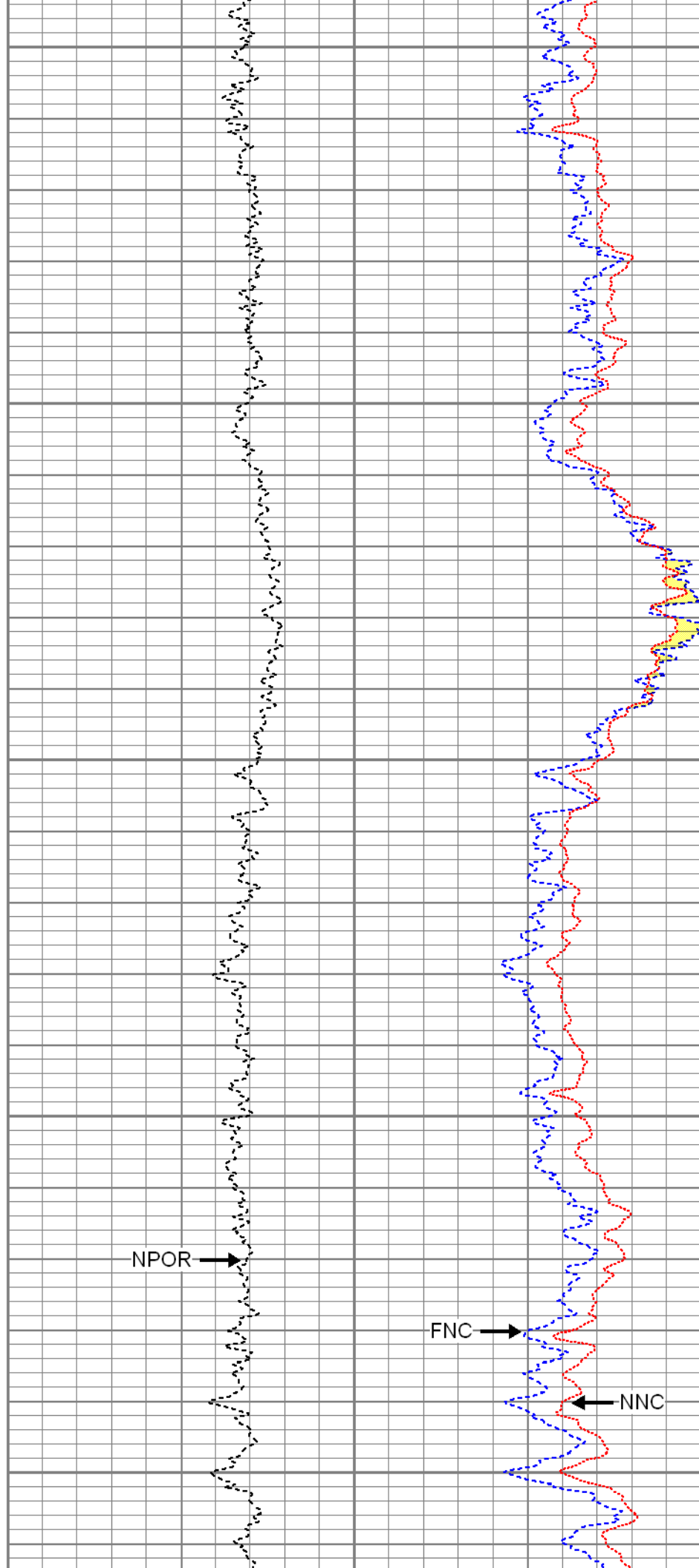
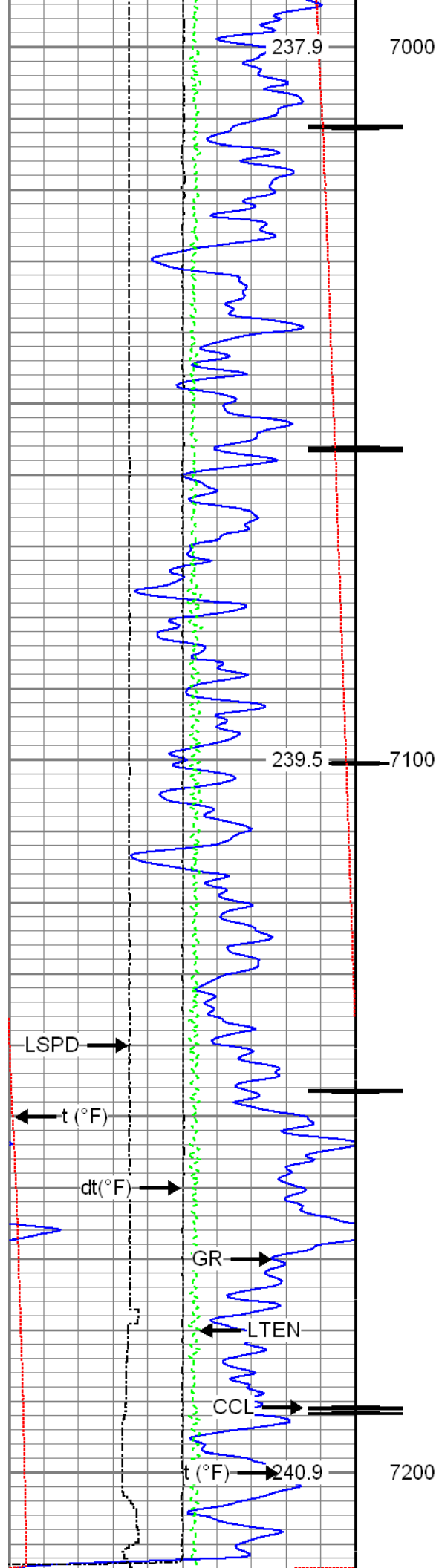


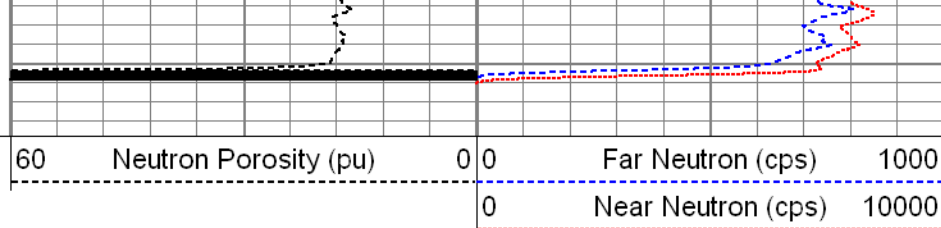
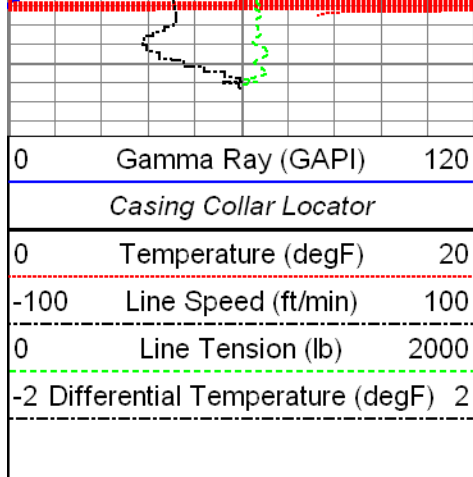















Repeat Section

Recorded with 0 PSI Surface Induced Pressure

Database File: c:\warrior\data\0512341914_anadarko_ge powers 3c-26hz_10-22-15_cn\0512341914_anadarko_ge

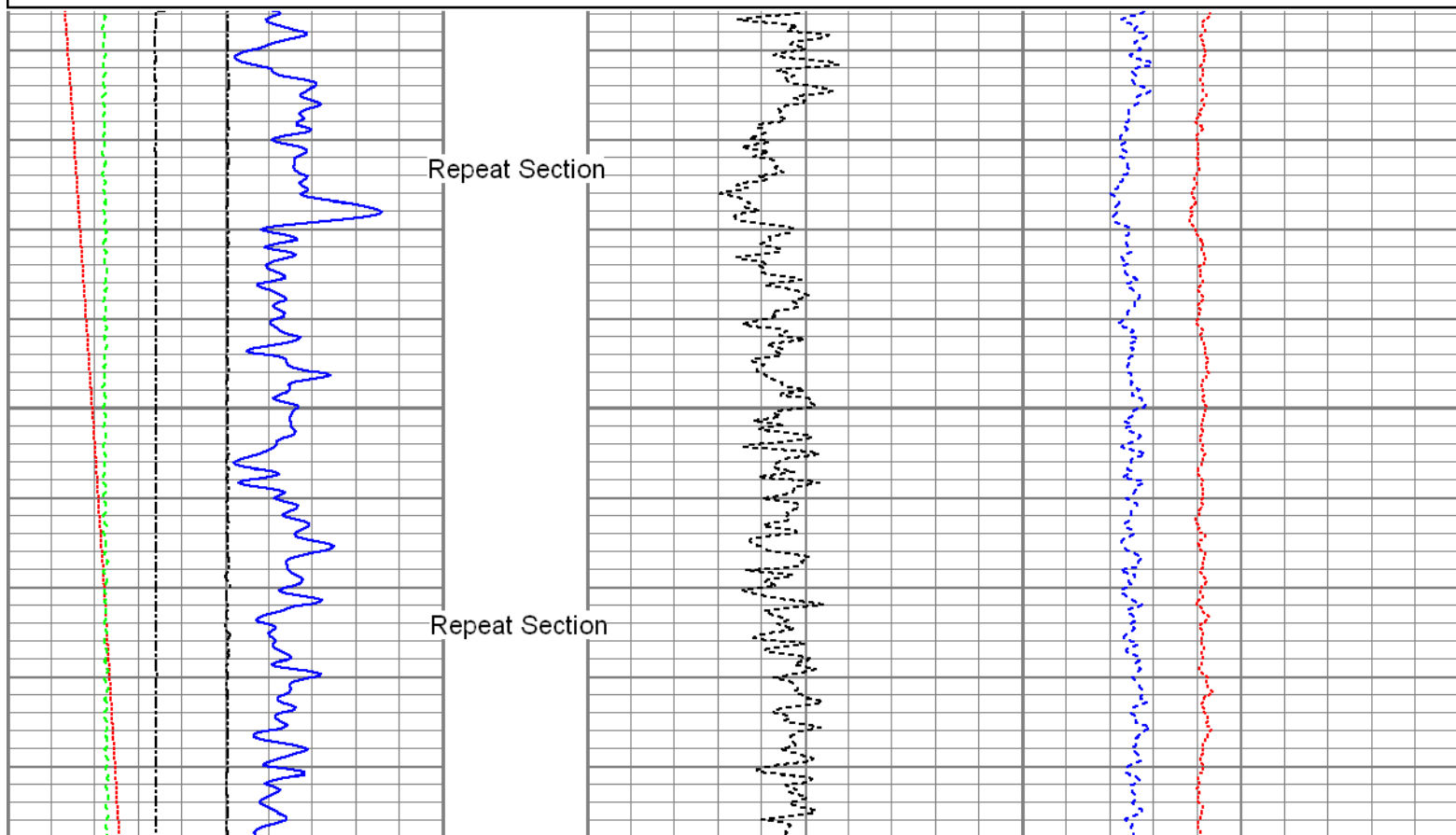
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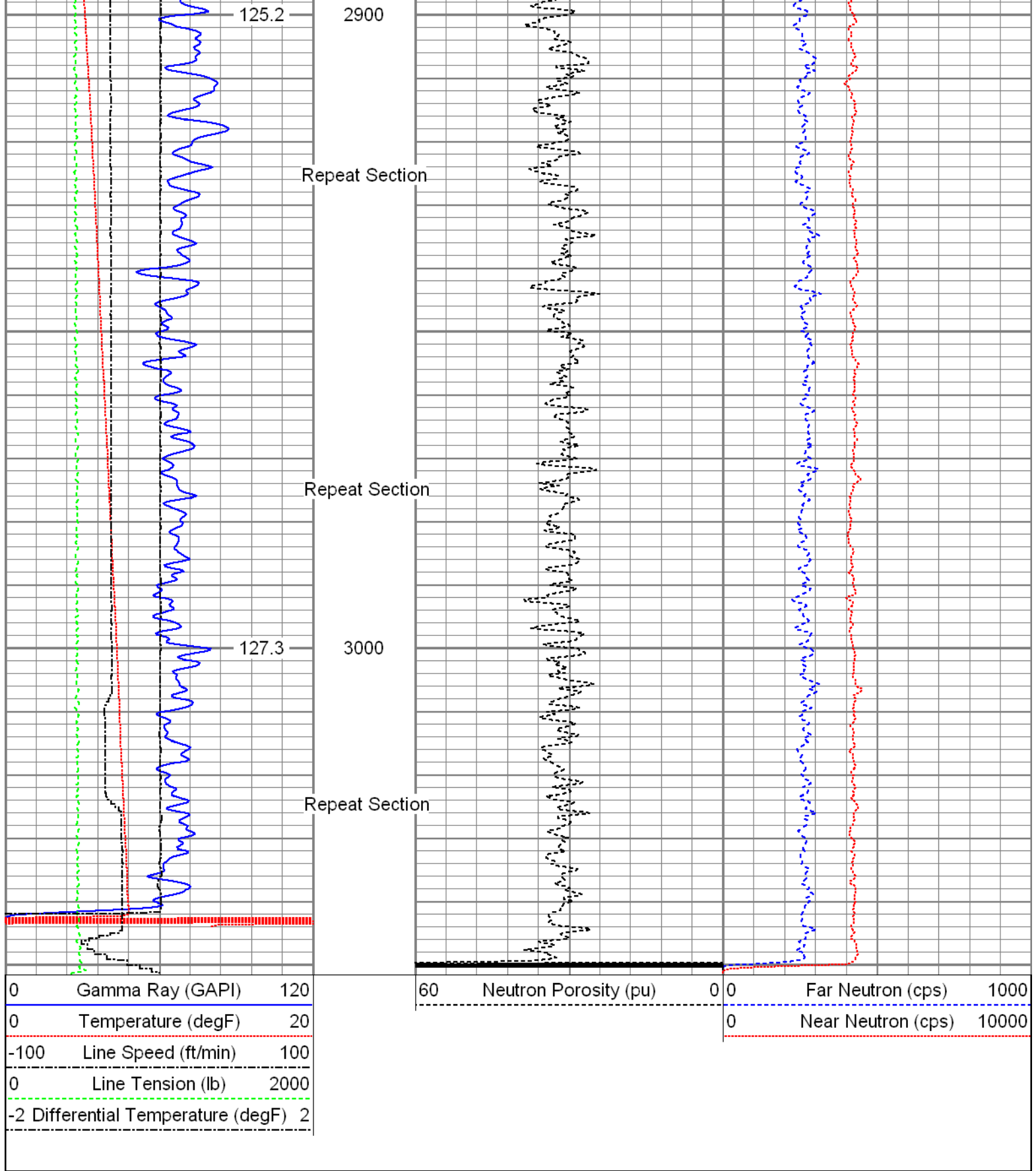
Presentation Format: cnl


Dataset Creation: Thu Oct 22 09:38:44 2015 by Log 7.0 B1

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)	10000
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			UW_AGS-UW_AGS_001 (215017) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00

			<div> <div>UW_XTU-UW_XTU_002 (218874)</div> <div>Crossover Ultrawire Toolbus to Ultralink</div> </div>	1.58	1.69	6.50
GR	9.77		<div> <div>UW_PGR-UW_PGR_020 (10013899)</div> <div>Production Gamma Ray</div> </div>	1.93	1.69	9.50
TEMP	8.37		<div> <div>UW_PRT-UW_PRT_016 (10025097)</div> <div>Platinum Resistance Thermometer</div> </div>	1.04	1.69	5.20
CCL	7.12		<div> <div>UW_CCL-UW_CCL_028 (10009470)</div> <div>Ultrawire 3-1/8" CCL</div> </div>	1.61	3.13	36.00
			<div> <div>CNL-007 (1005)</div> <div>Compensated Neutron Logging Tool</div> </div>	6.61	1.69	30.00
CNLSC	1.53					
CNSSC	1.12					
TSTAMP	0.00					
<div> <div>Dataset:</div> <div>0512341914_Anadarko_GE Powers 3C-26HZ_10-22-15_CNL.db: field/well/run1/pass6.1</div> </div> <div> <div>Total Length:</div> <div>14.01 ft</div> </div> <div> <div>Total Weight:</div> <div>92.20 lb</div> </div> <div> <div>O.D.</div> <div>3.13 in</div> </div>						

<div> <div>Database File:</div> <div>c:\warrior\data\0512341914_anadarko_ge powers 3c-26hz_10-22-15_cnl\0512341914_anadarko_ge po</div> </div> <div> <div>Dataset Pathname:</div> <div>pass6.1</div> </div> <div> <div>Dataset Creation:</div> <div>Thu Oct 22 14:19:48 2015</div> </div>		<div> <div>Calibration Report</div> </div>
Compensated Neutron Calibration Report		

Serial Number:	1005		
Tool Model:	007		
Master Calibration	Tue Jun 03 09:29:29 2014		
Detector	Readings		
Short Space	240.87	cps	
Long Space	303.55	cps	
	Measured	Reference	
Ratio	0.8150	Sleeve: 1.0000	
CNRAT Gain K	1.0271		
Before Survey			
Detector	Readings		
Short Space		cps	
Long Space		cps	
	Measured	Reference	
Ratio			
After Survey			
Detector	Readings		
Short Space		cps	
Long Space		cps	
	Measured	Reference	
Ratio			

Temperature Calibration Report					
	Serial Number:	10025097			
	Tool Model:	UW_PRT_016			
	Performed:	Wed Feb 11 13:44:44 2015			
Point #	Reading		Reference		
1	13053.00	cps	68.00	degF	
2	18014.00	cps	104.00	degF	
3	29668.00	cps	176.00	degF	
4	41181.00	cps	248.00	degF	
5	52983.00	cps	320.00	degF	
6	58931.00	cps	356.00	degF	
7		cps		degF	
8		cps		degF	
9		cps		degF	
10		cps		degF	

Gamma Ray Calibration Report			
Serial Number:	10013899		
Tool Model:	UW_PGR_020		
Performed:	Sun Jun 13 13:33:21 1993		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	1.0000	GAPI/cps	



Company	Kerr-McGee Oil & Gas Onshore, L.P.
Well	GE Powers 3C-26HZ
Field	Wattenberg
County	Weld
State	Colorado