



Compensated Neutron
Gamma Ray
Casing Collar Log

Company	Kerr-McGee Oil& Gas Onshore, L.P.	Company	Kerr-McGee Oil& Gas Onshore, L.P.
Well	Joker 26N2-9HZ	Well	Joker 26N2-9HZ
Field	Wattenberg	Field	Wattenberg
County	Weld	County	Weld
State	Colorado	State	Colorado
Location:	API # : 05-123-41330	Other Services	---
SEC 9	TWP 1N	RGE 65W	
Permanent Datum	Ground Level	Elevation	4971'
Log Measured From	Kelly Bushing	25 FT	
Drilling Measured From	Kelly Bushing		
		Elevation	K.B. 4996' D.F. 4995' G.L. 4971'

Date	30-SEP-2015
Run Number	One
Depth Driller	11975 FT
Depth Logger	7452 FT
Bottom Logged Interval	7451 FT
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lbm/gal
Max. Recorded Temp.	234°F
Estimated Cement Top	---
Time Well Ready	ROA
Time Logger on Bottom	11:36 AM
Equipment Number	HD-0361
Location	Fort Lupton, CO
Recorded By	J. Houlin
Witnessed By	Darrell Brothwell

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	Surface	1852 FT		
Intermediate #1	5 1/2	17	HCP-110 LTC	Surface	11961 FT		
Intermediate #2							
Liner							

<<<< 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 FMC Technologies RBL dated 10-SEP-2015
Adjusted +0.5 FT to correlate with FMC RBL
Recorded with -0- PSI surface pressure
Logging tools were clean and free of any debris upon completion of operations
Thank you for choosing FMC Technologies Completion Services, Inc.!!

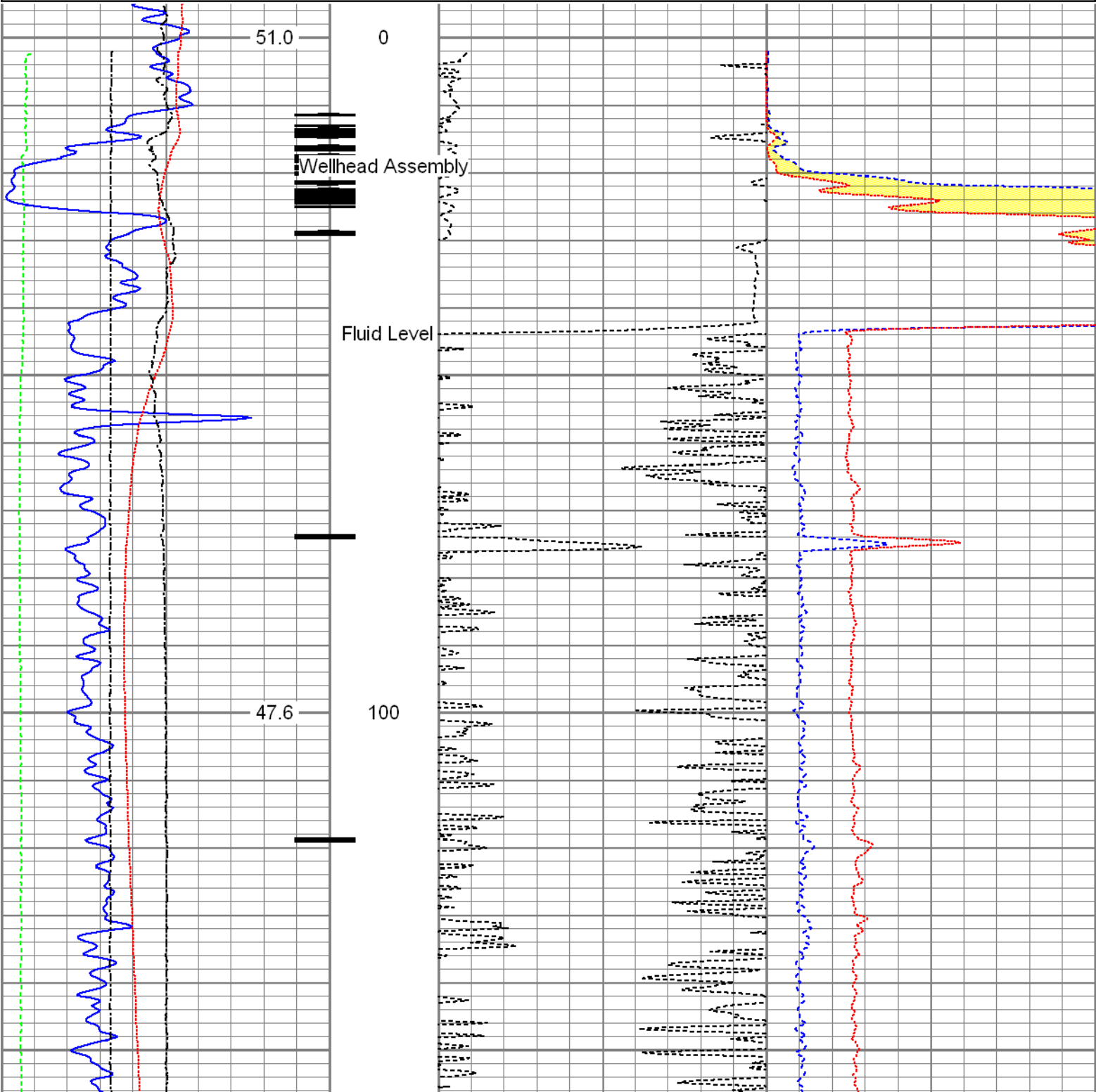


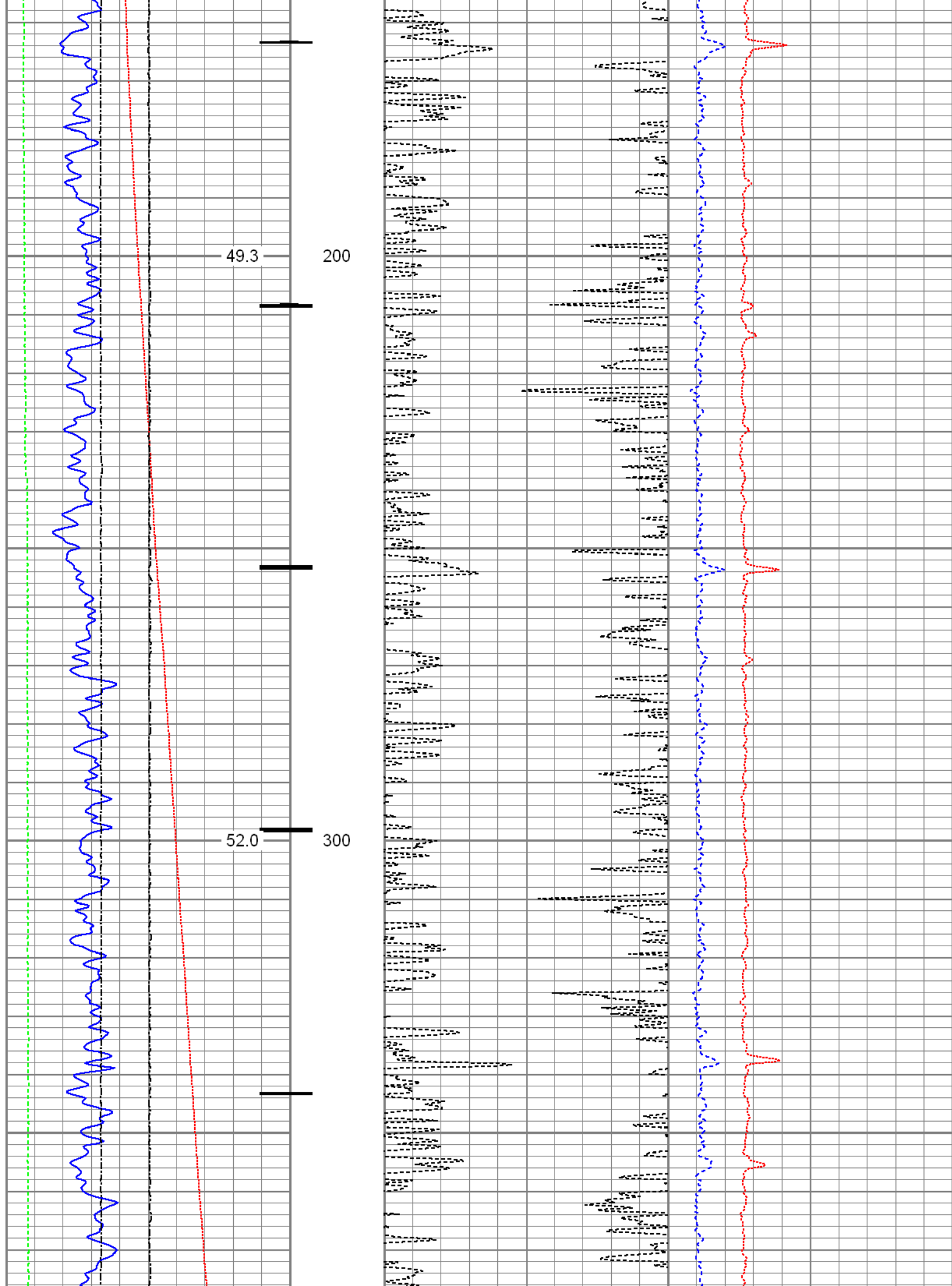
Main Pass

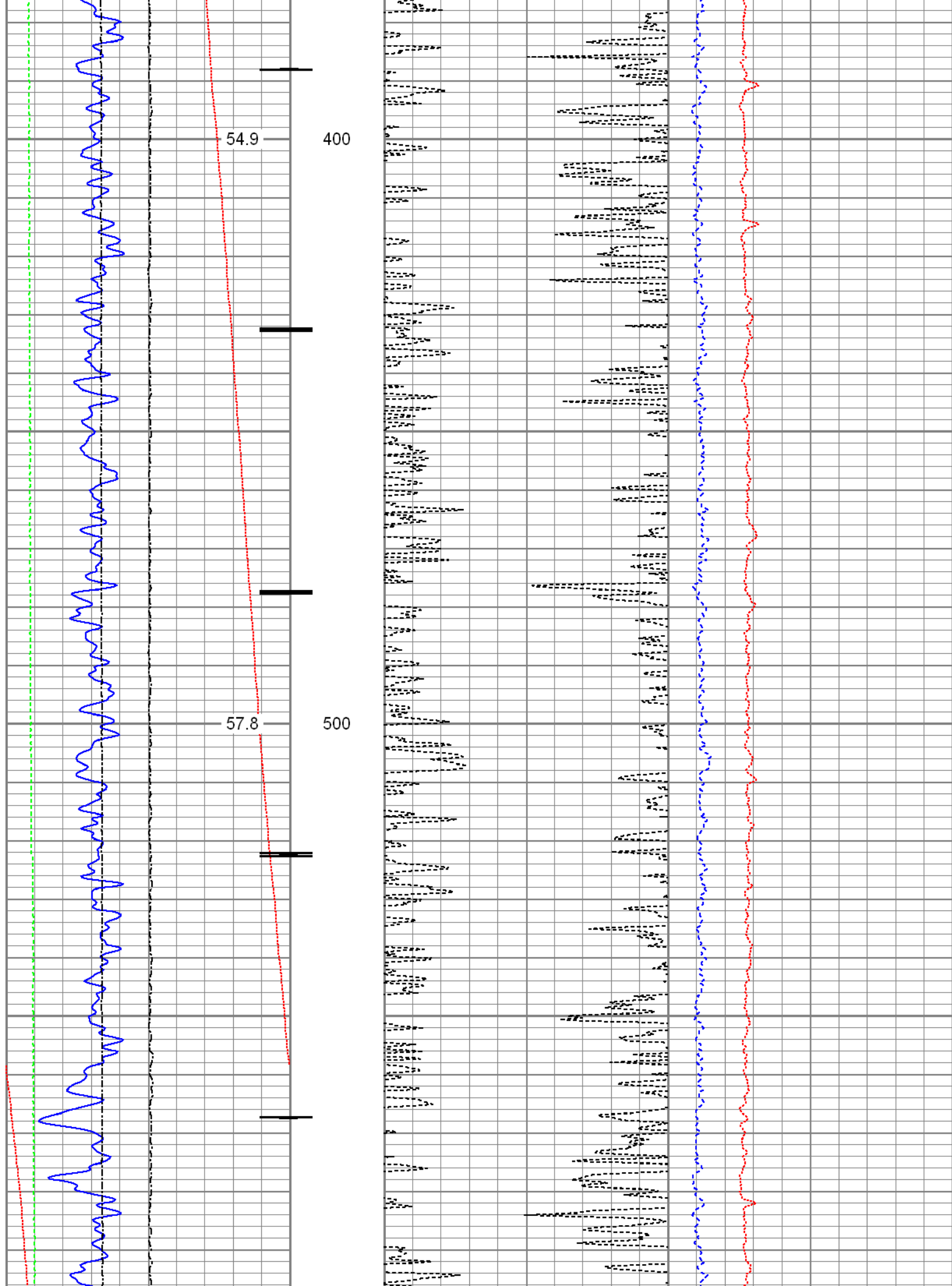
Recorded with -0- PSI Surface Pressure

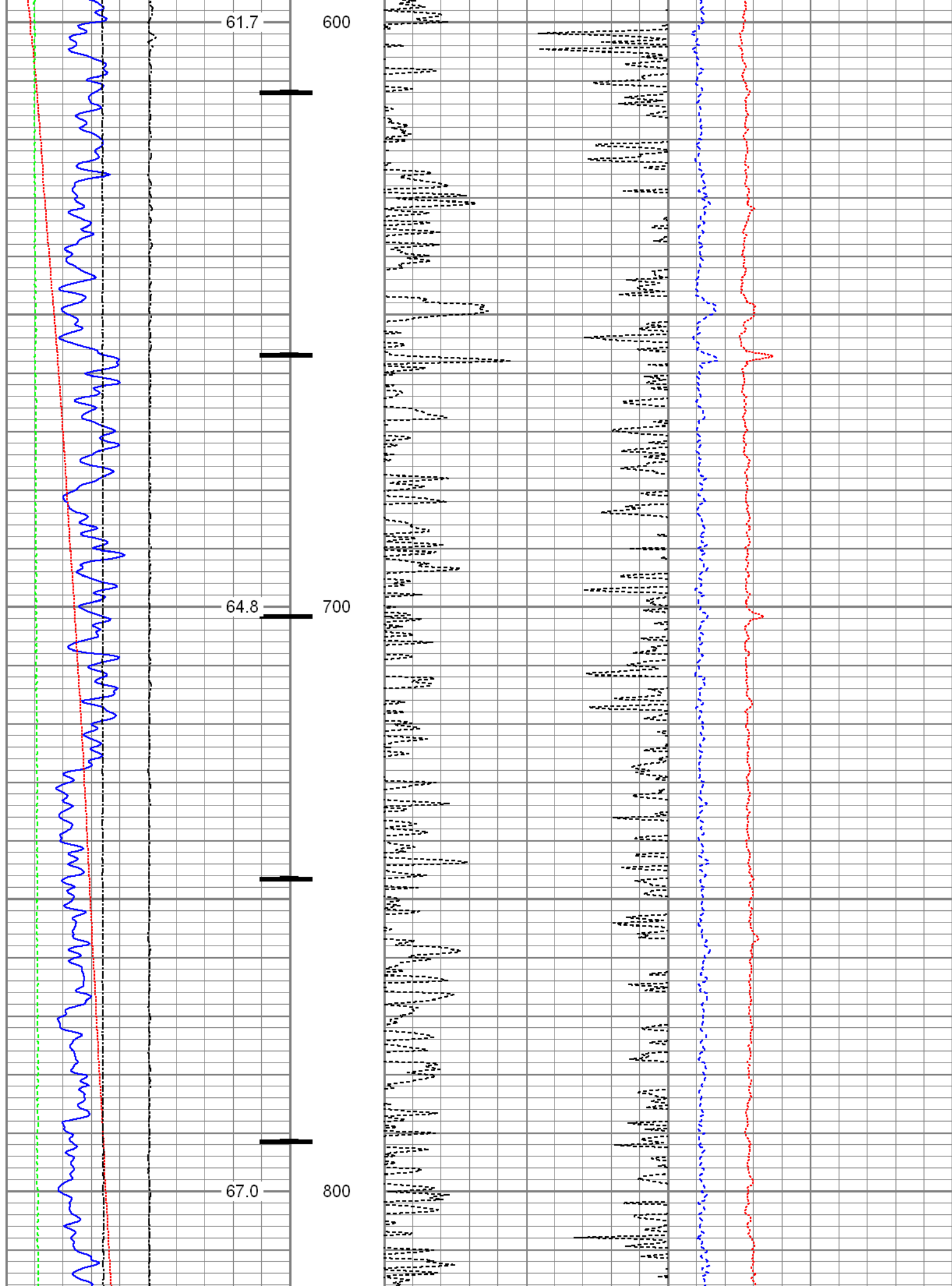
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Dataset Pathname: pass7.2
Presentation Format: cnl
Dataset Creation: Wed Sep 30 16:08:39 2015
Charted by: Depth in Feet scaled 1:240

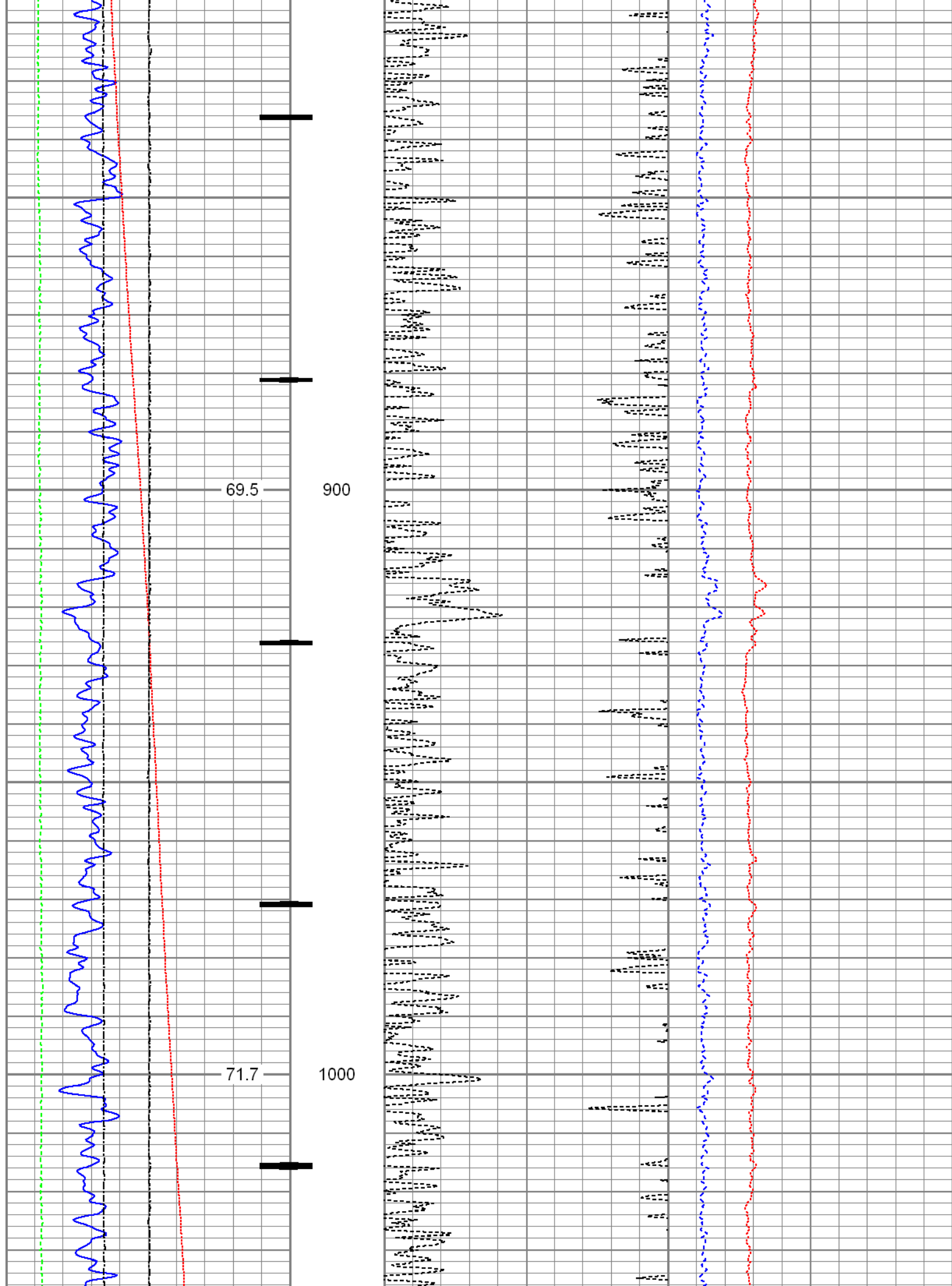
0	Gamma Ray (GAPI)	120	60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
0	Temperature (degF)	20			0	0	Near Neutron (cps)	10000
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						
	Casing Collar Locator							

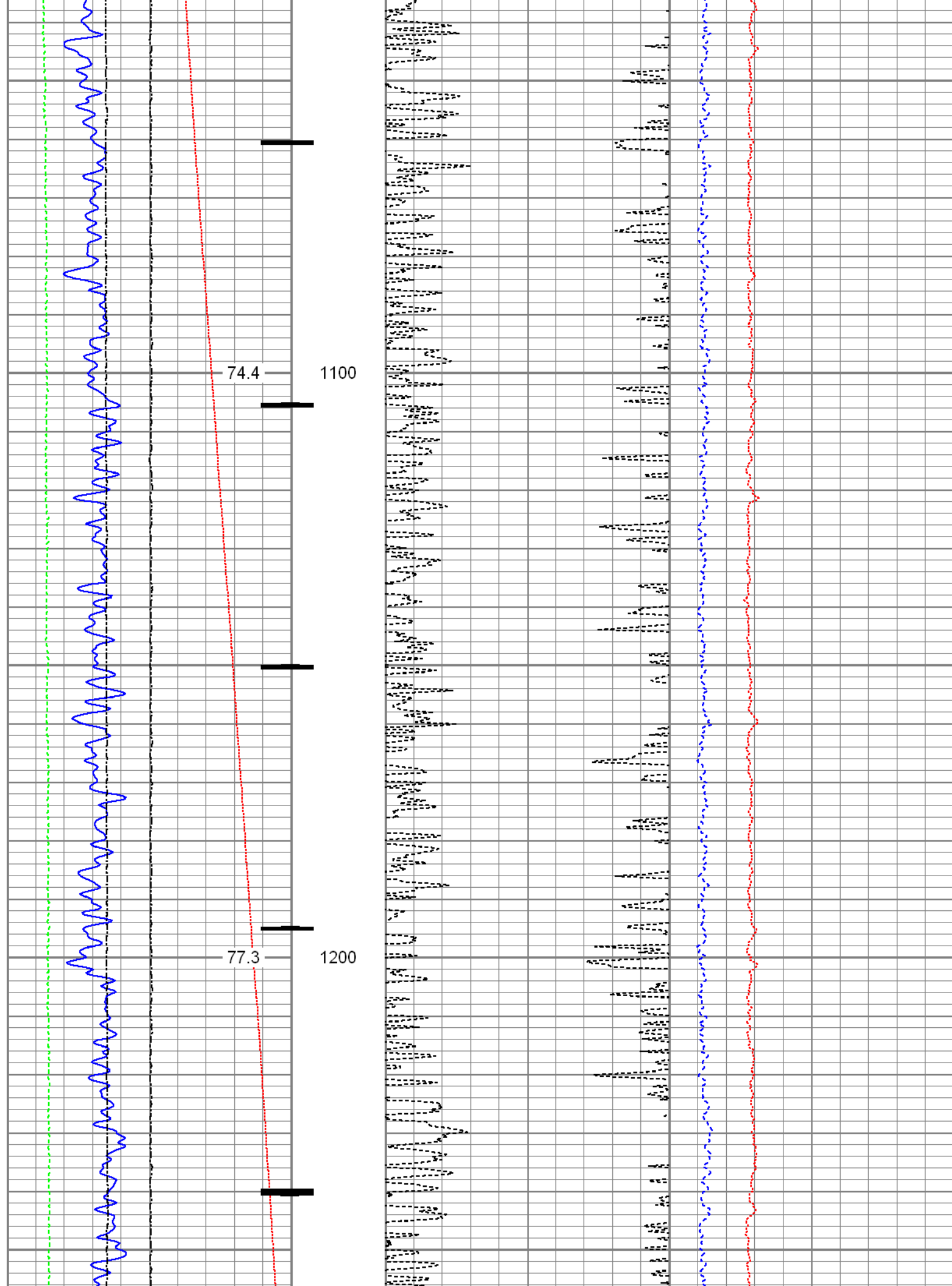


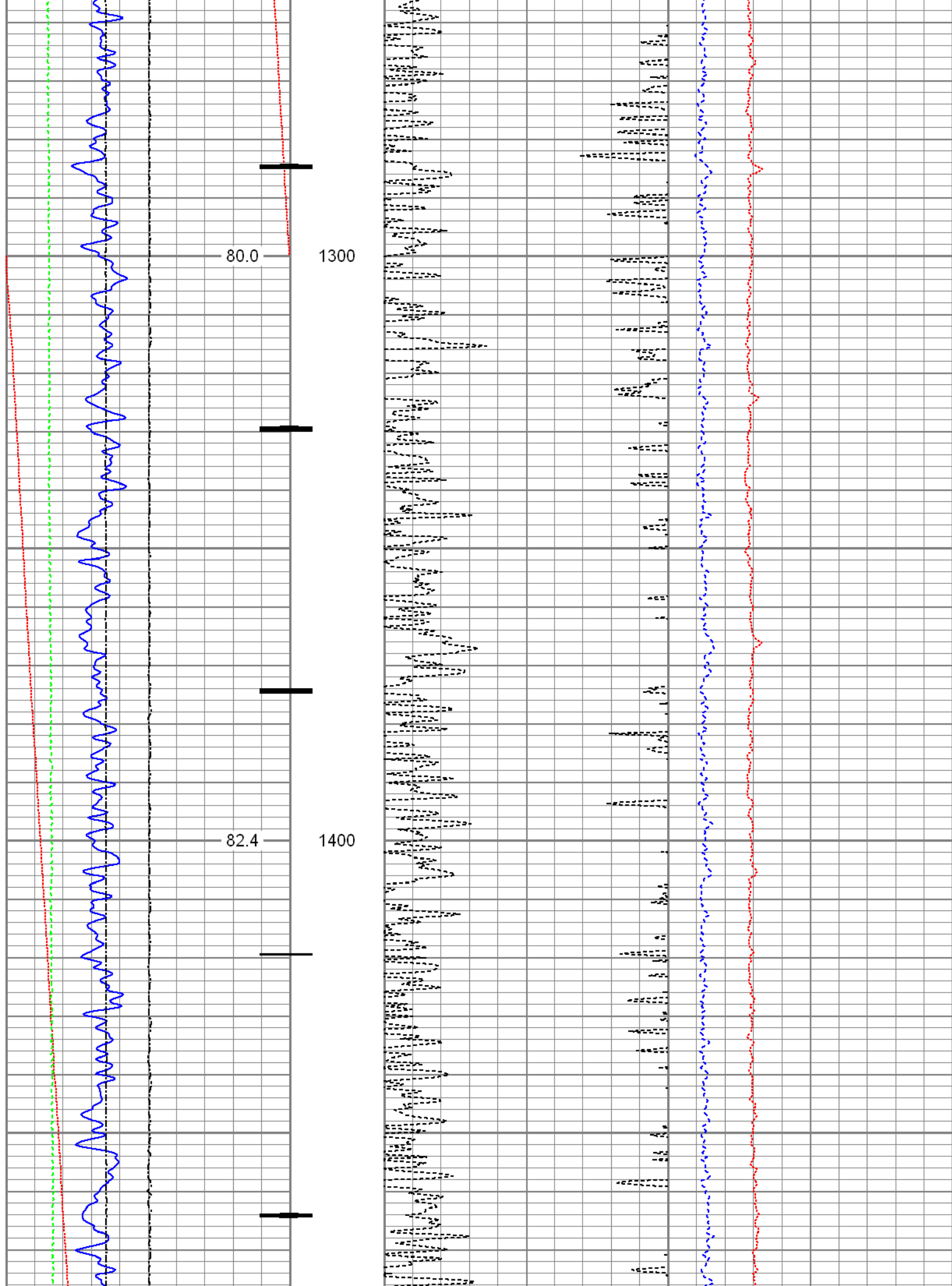


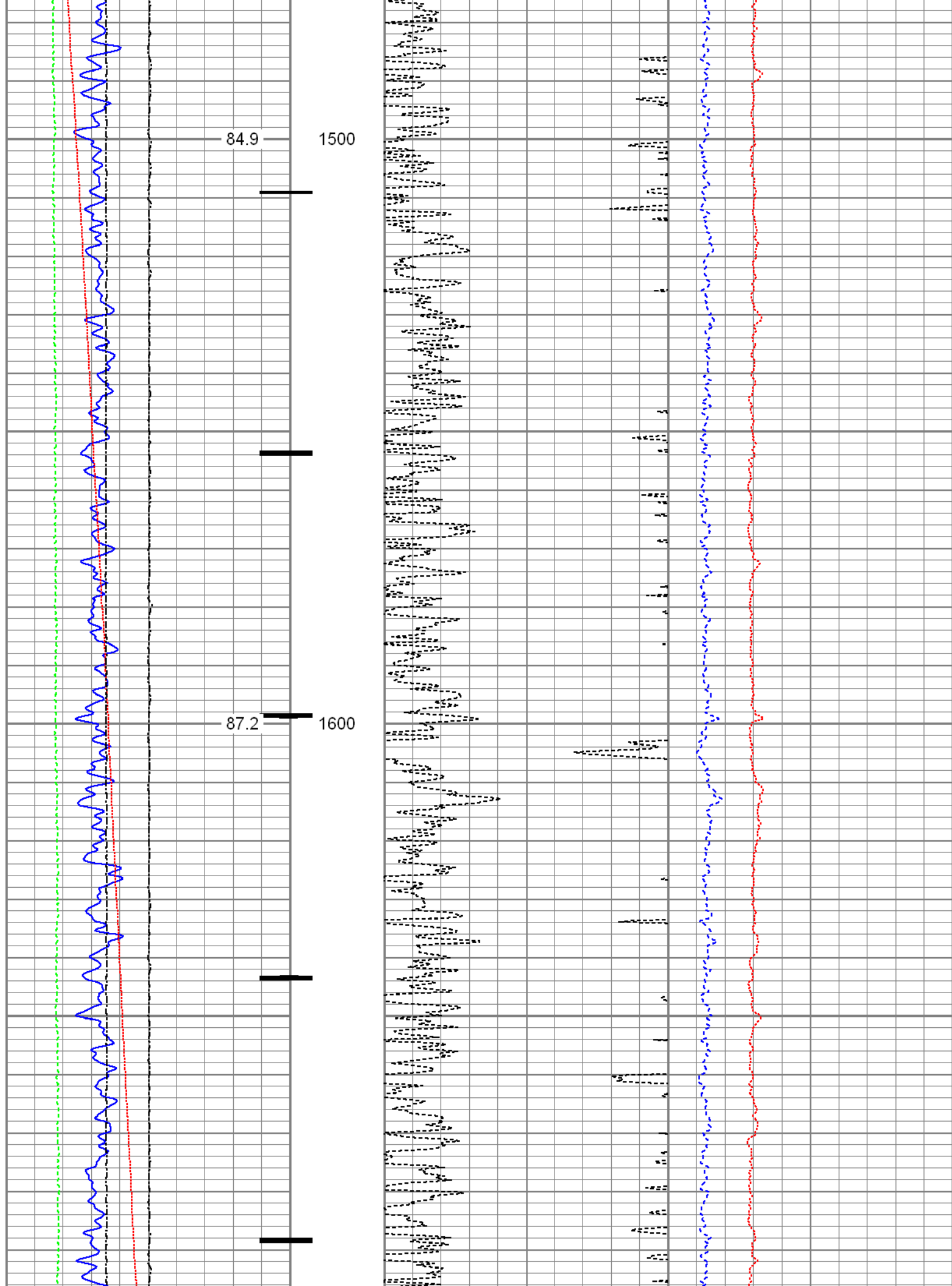


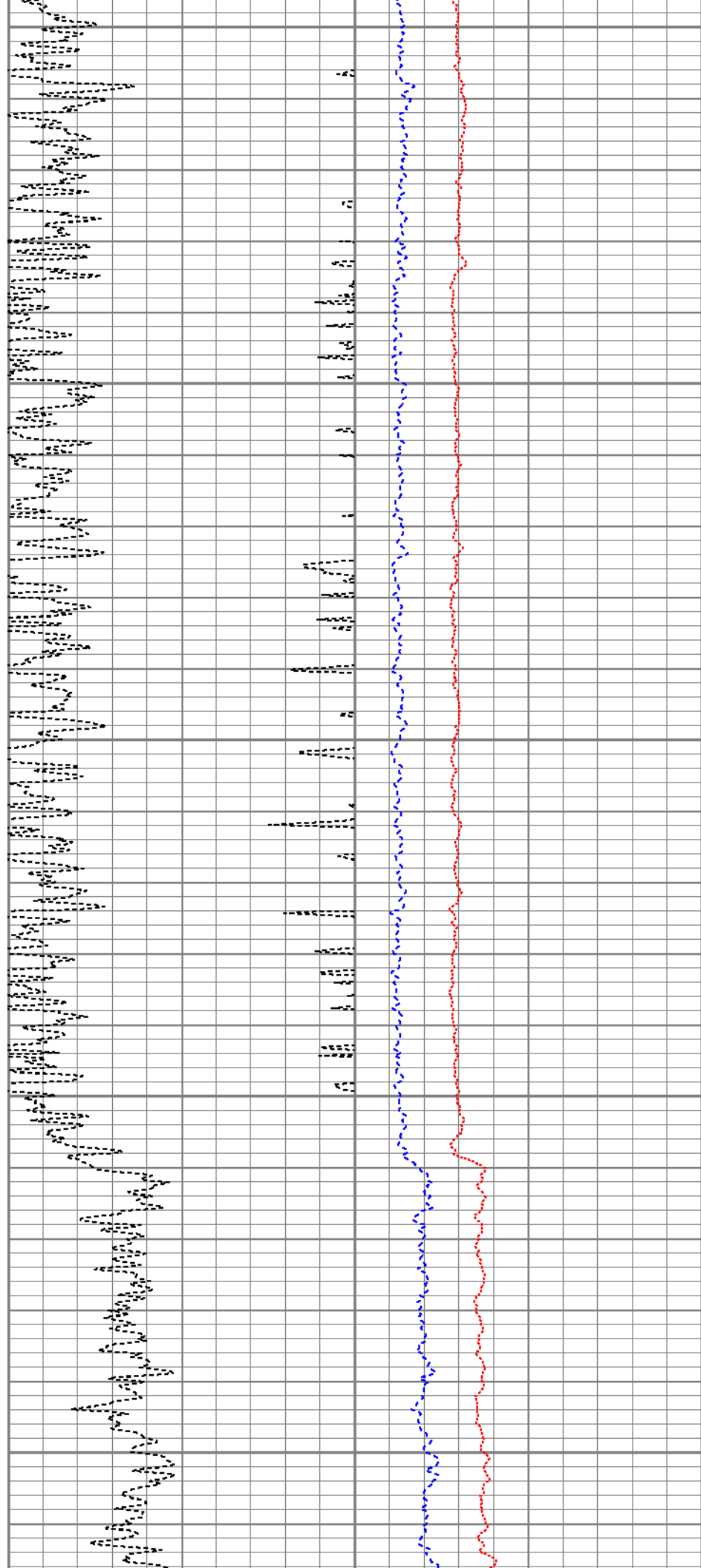
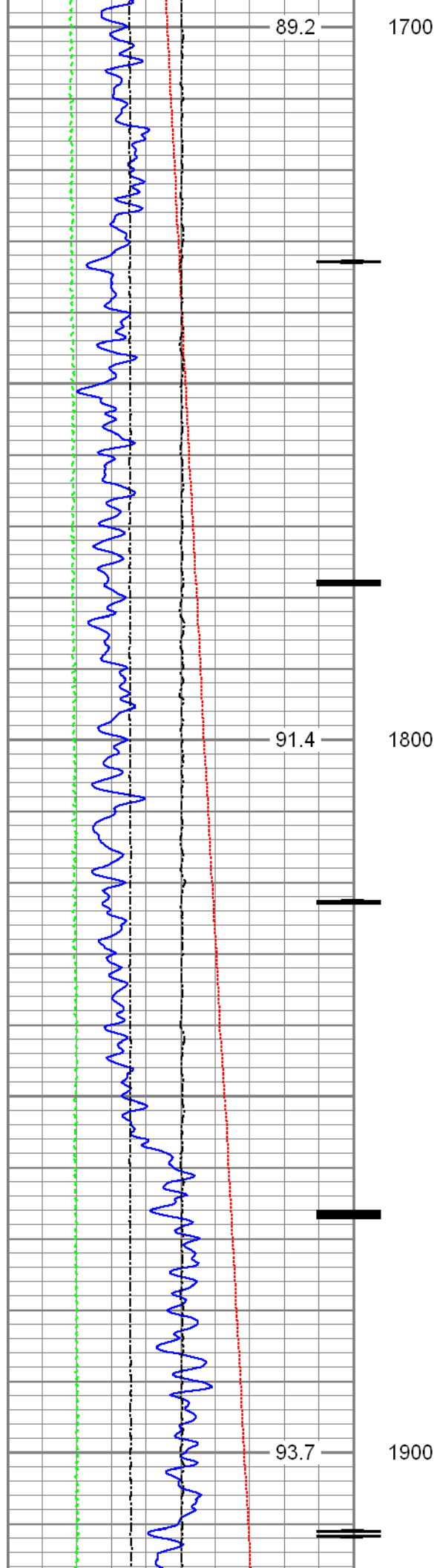


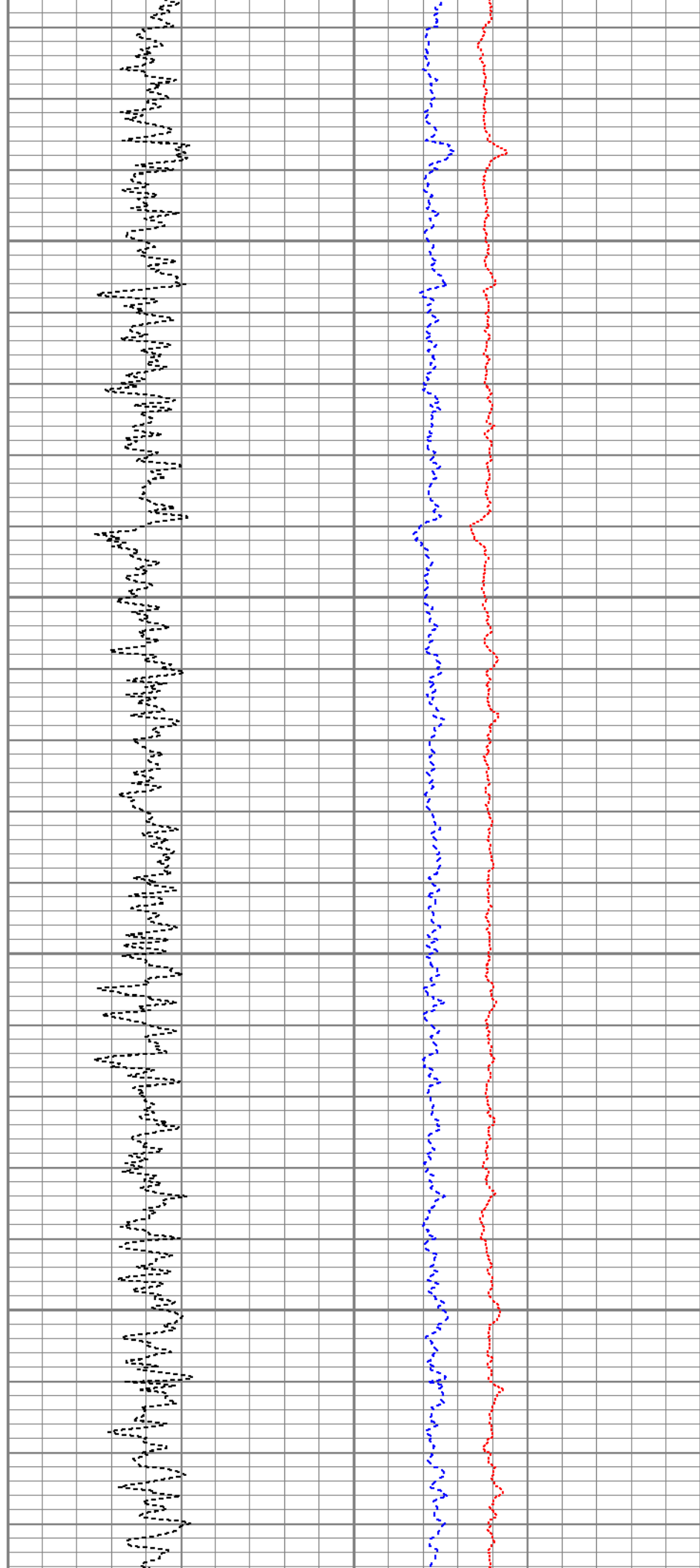
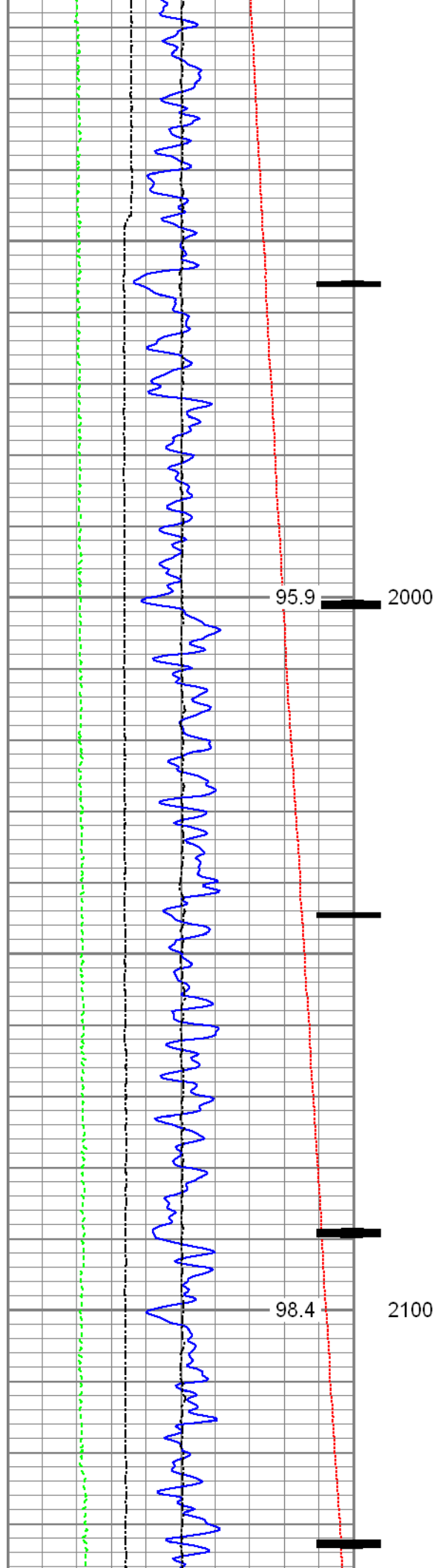


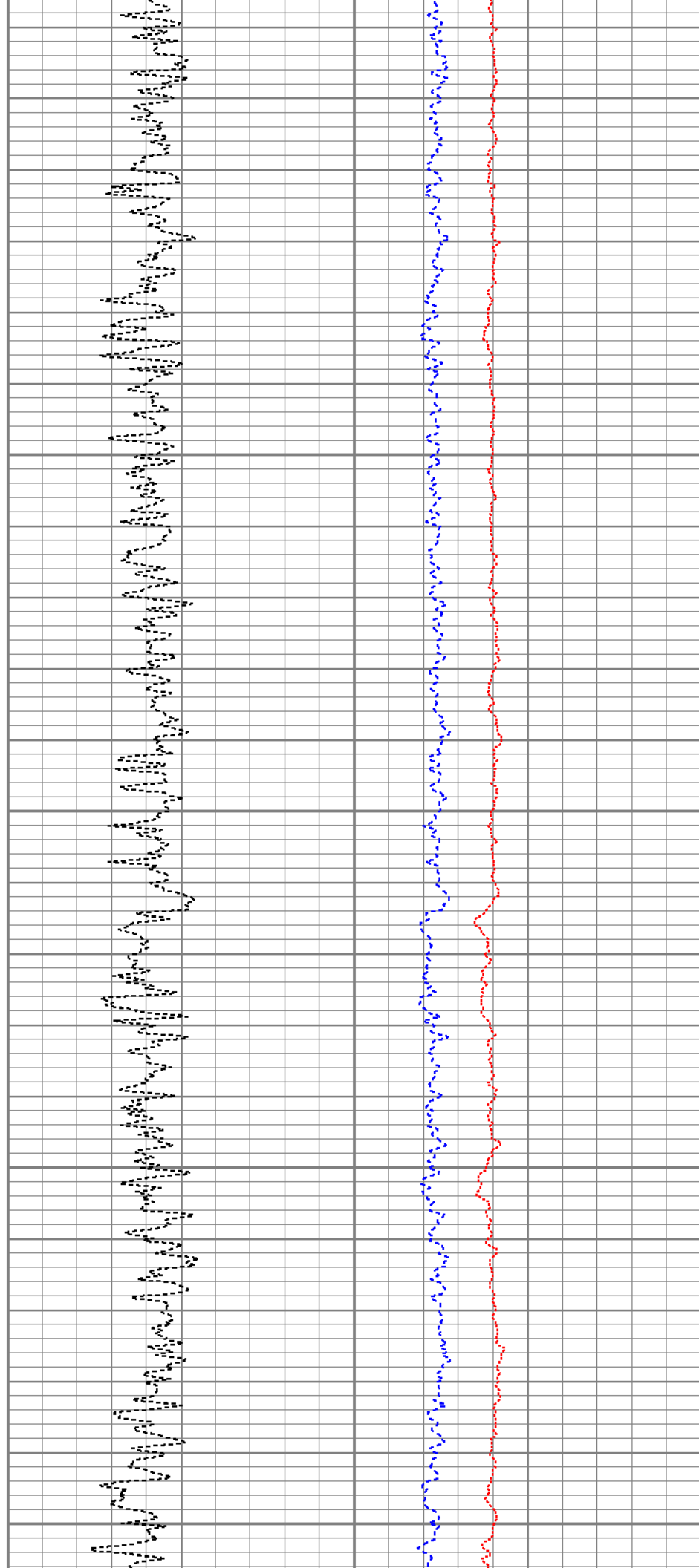
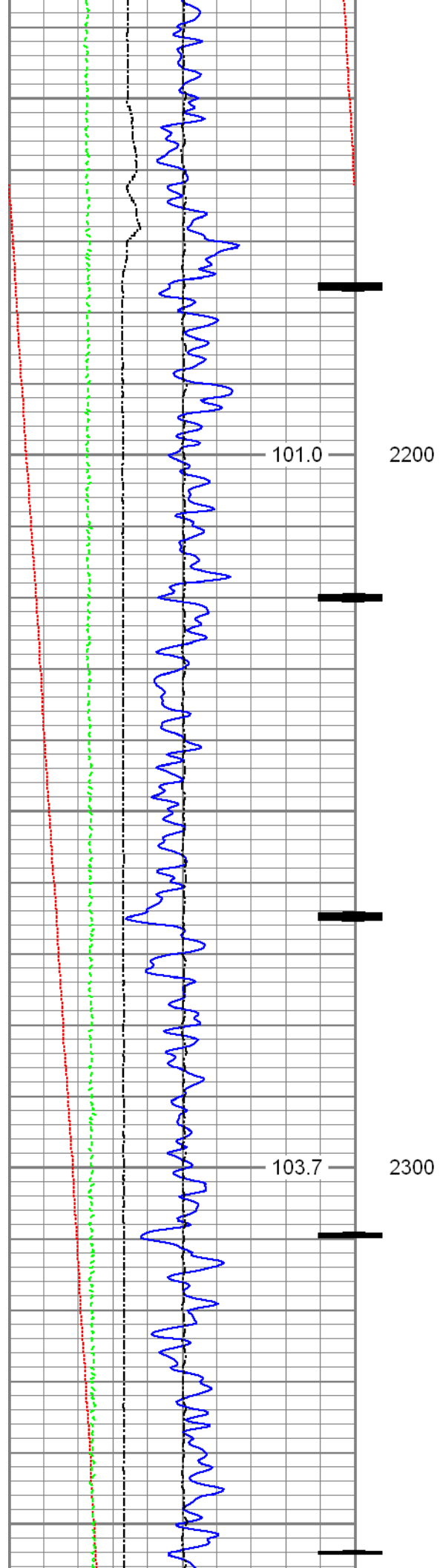


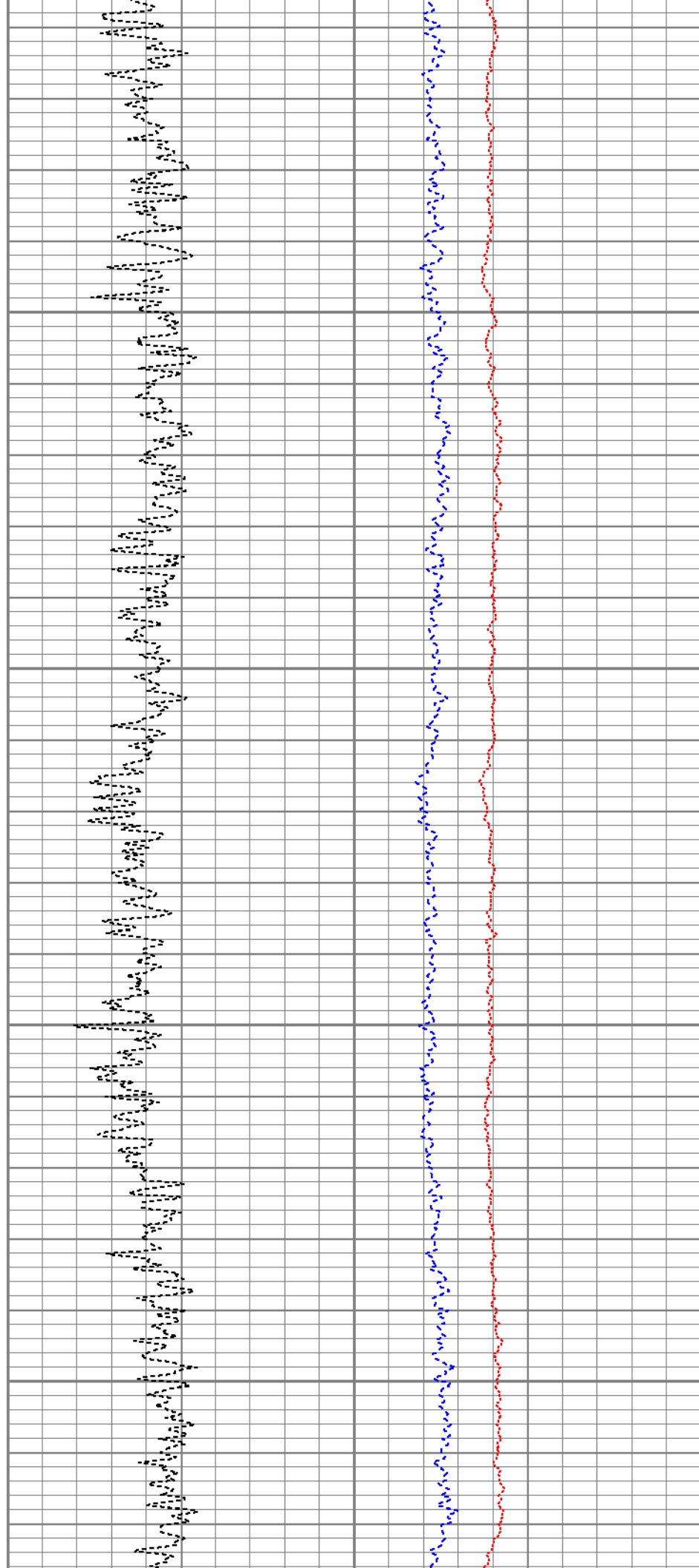
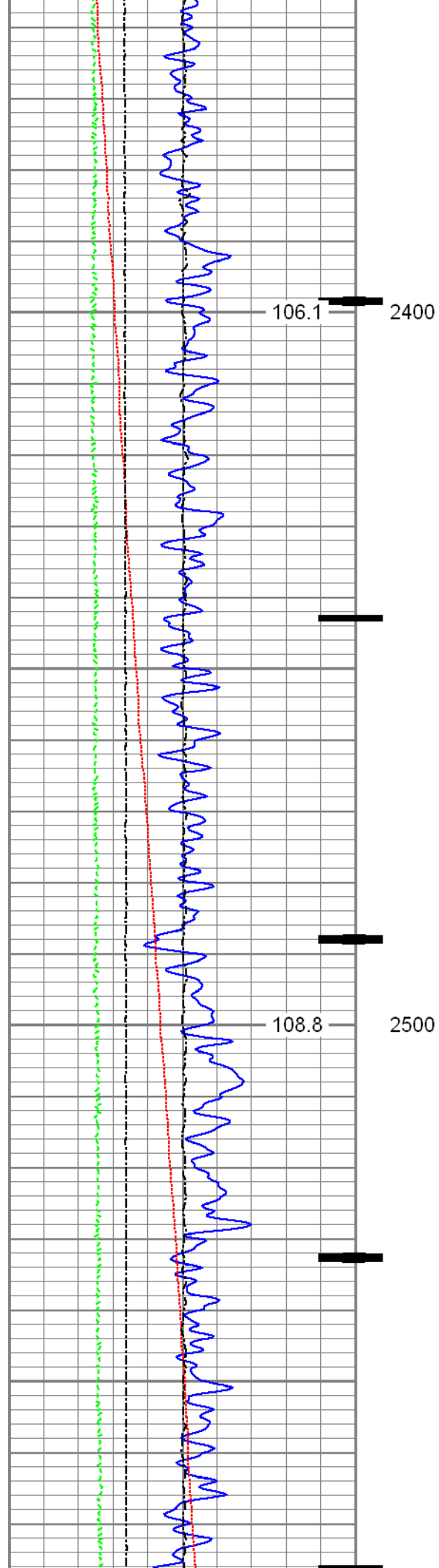


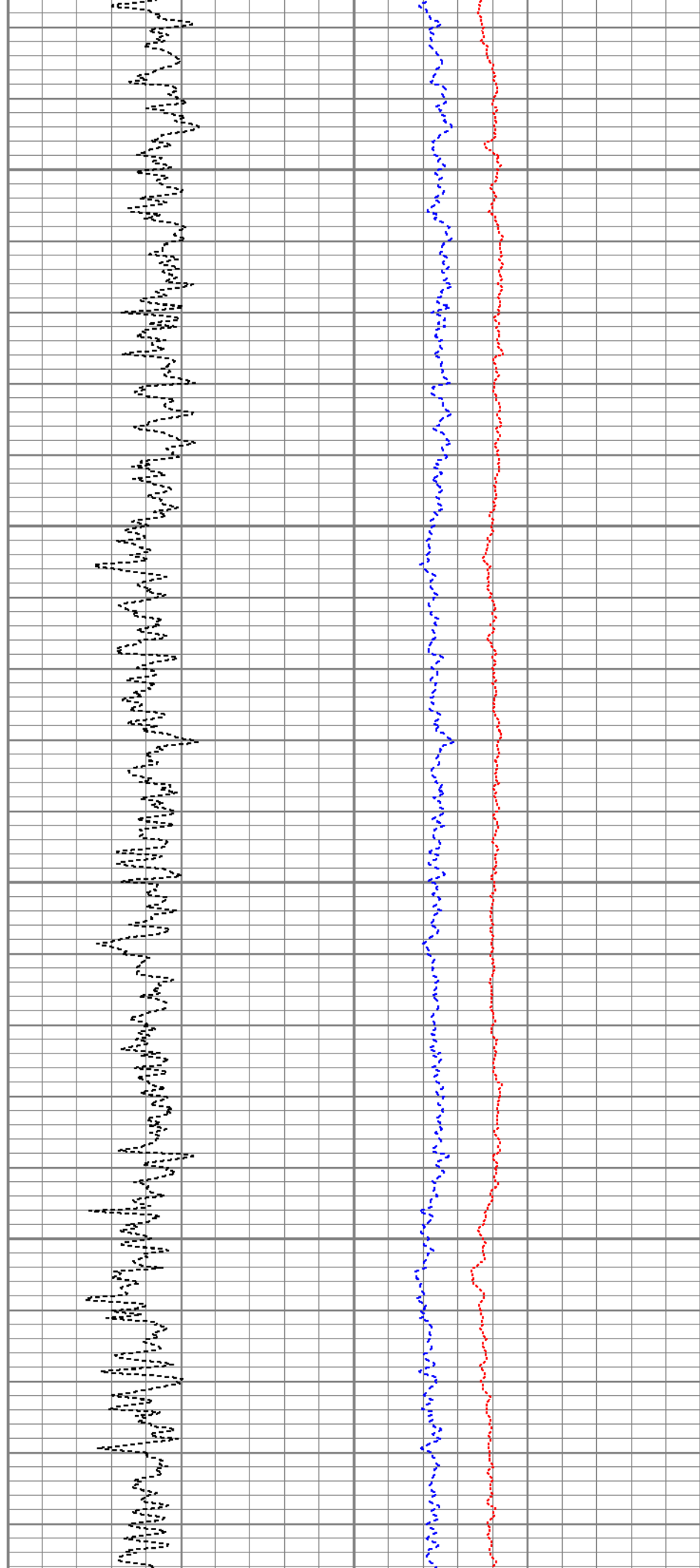
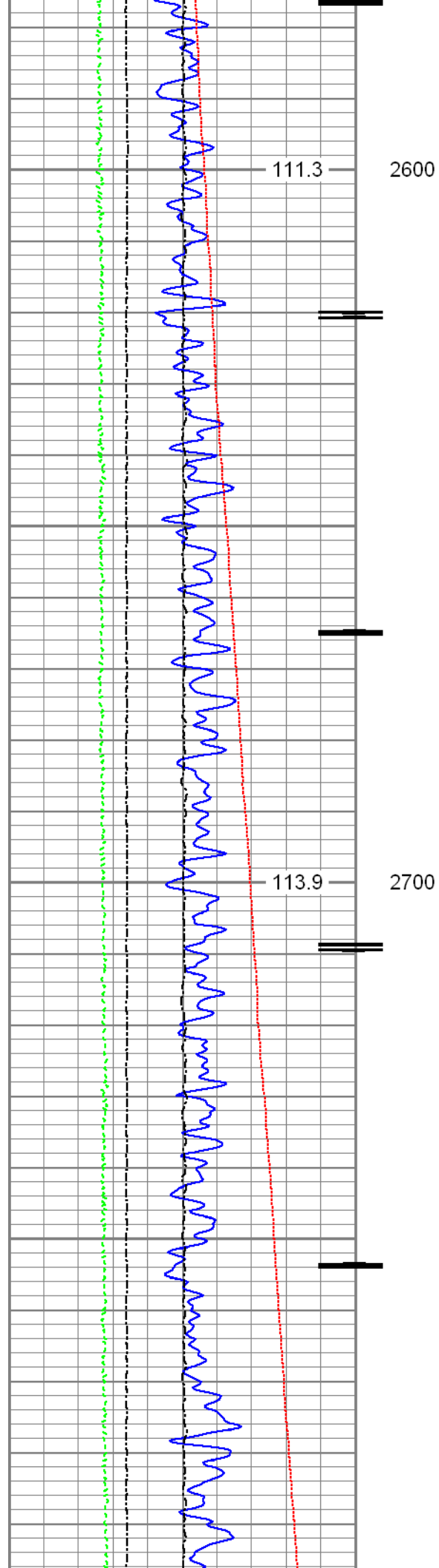


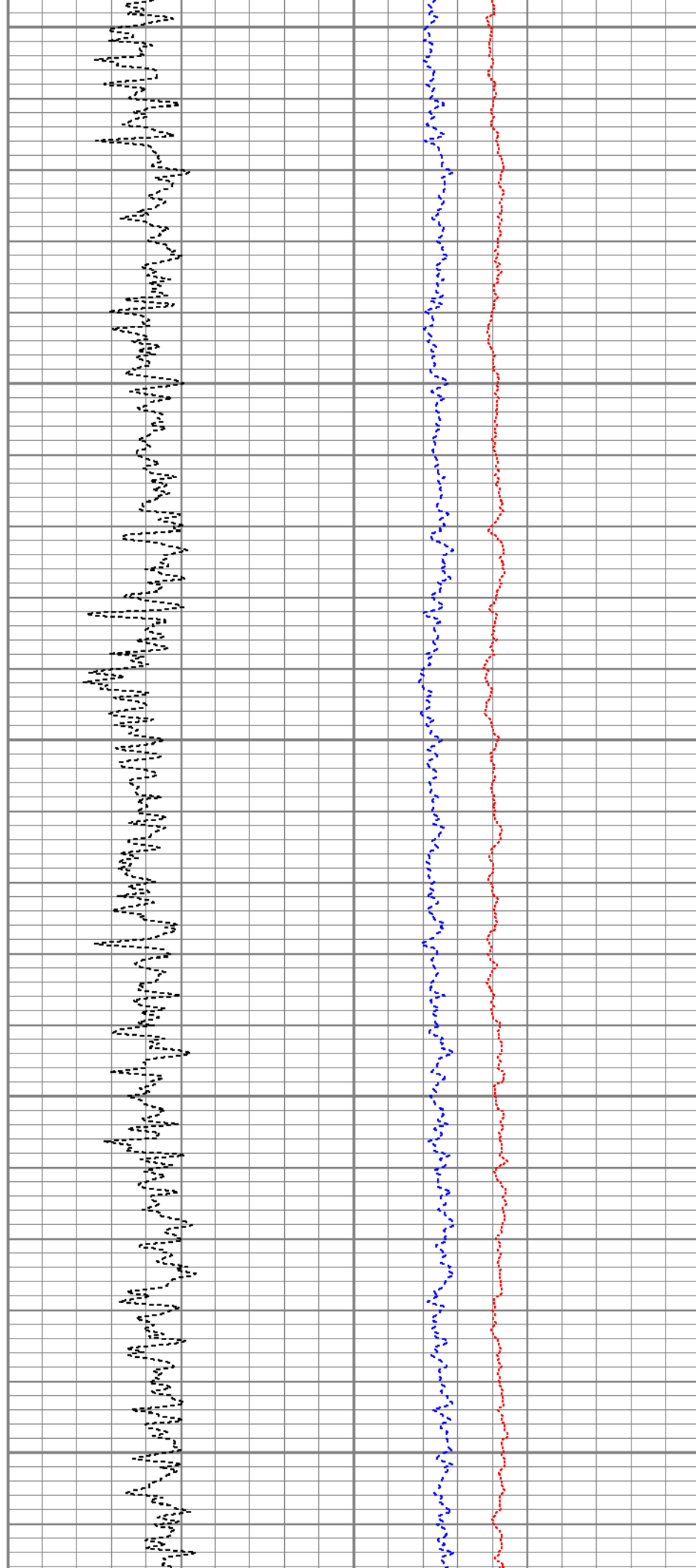
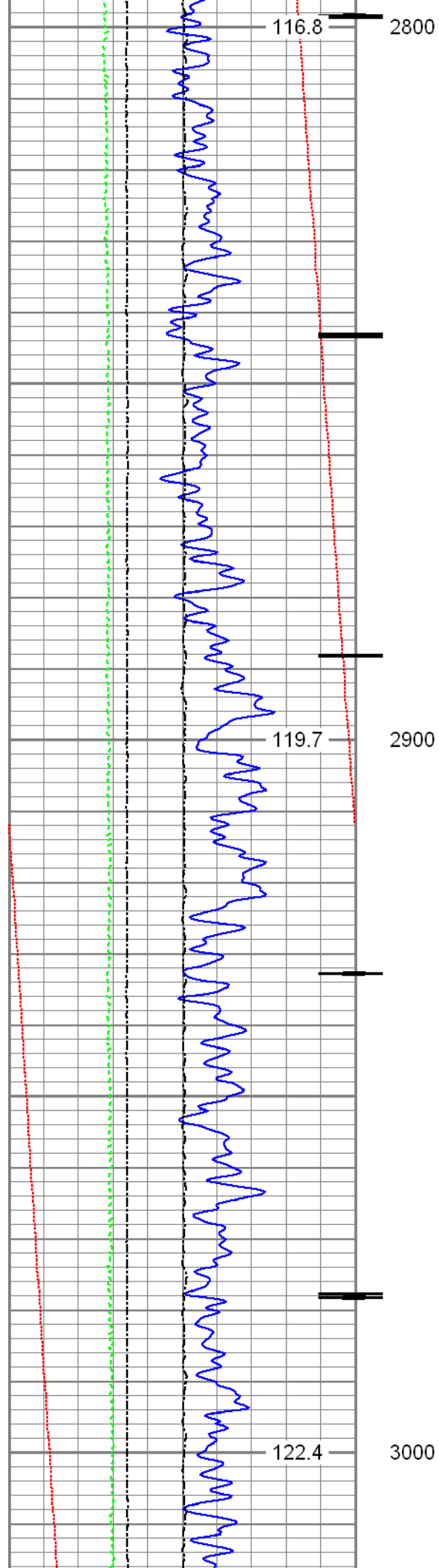


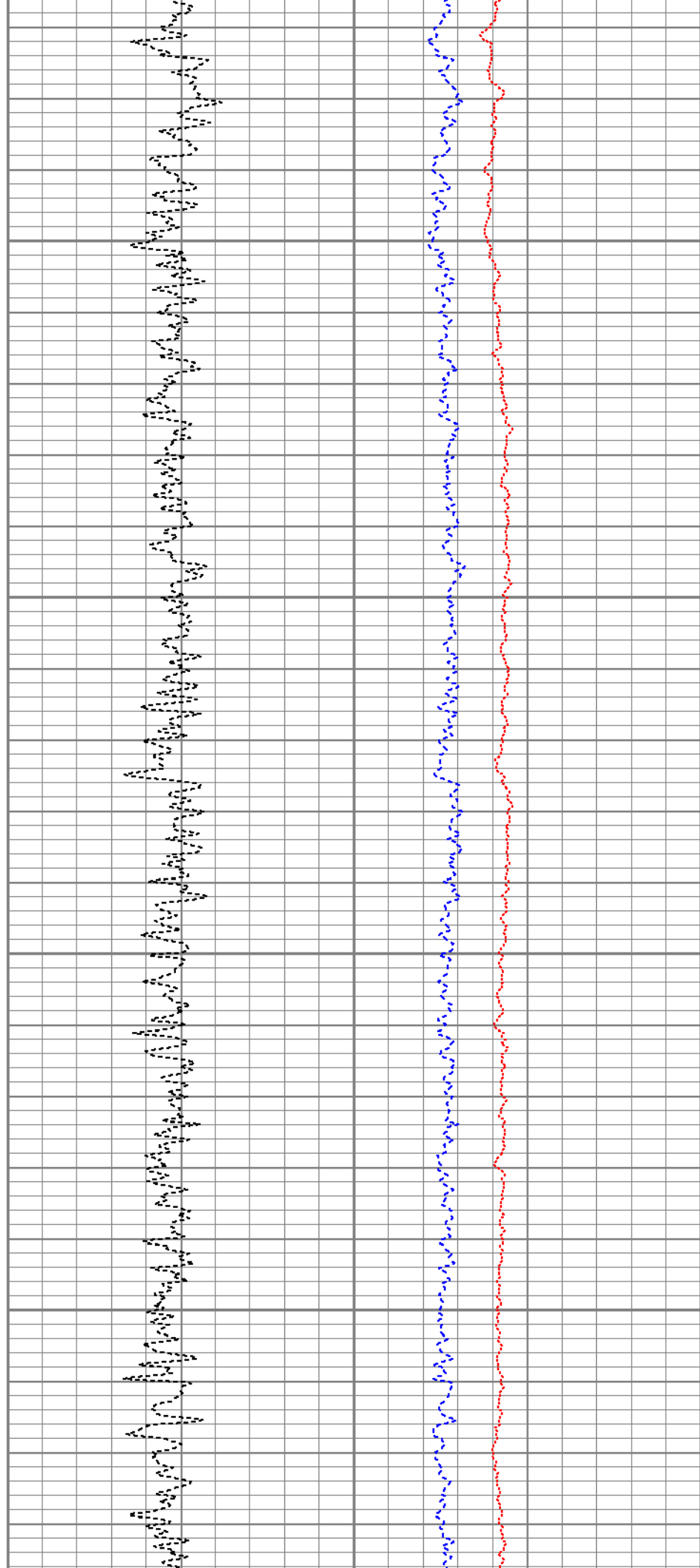
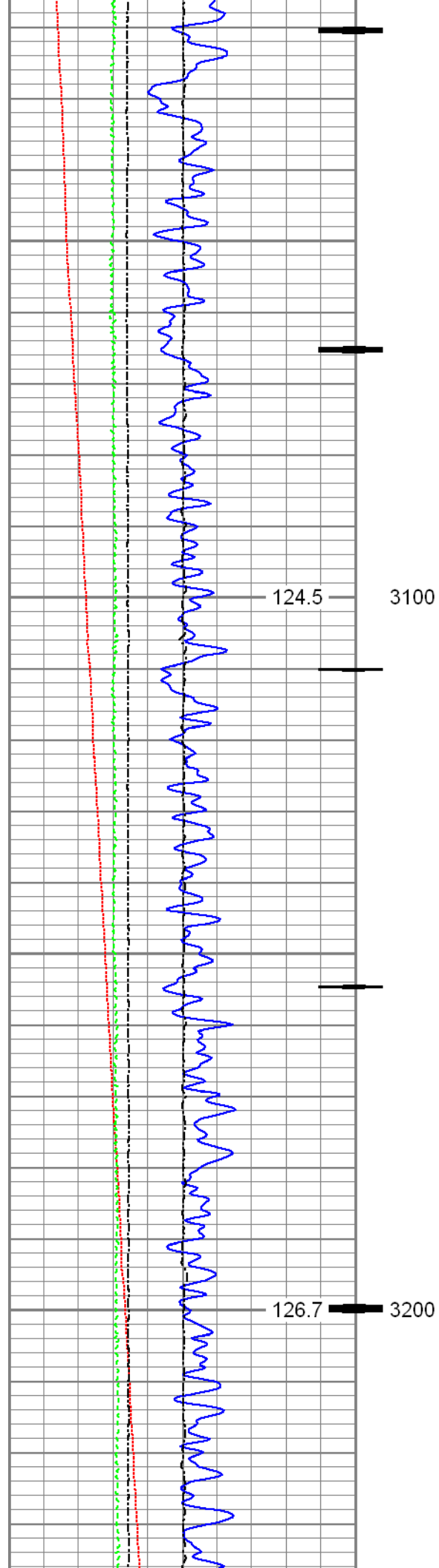


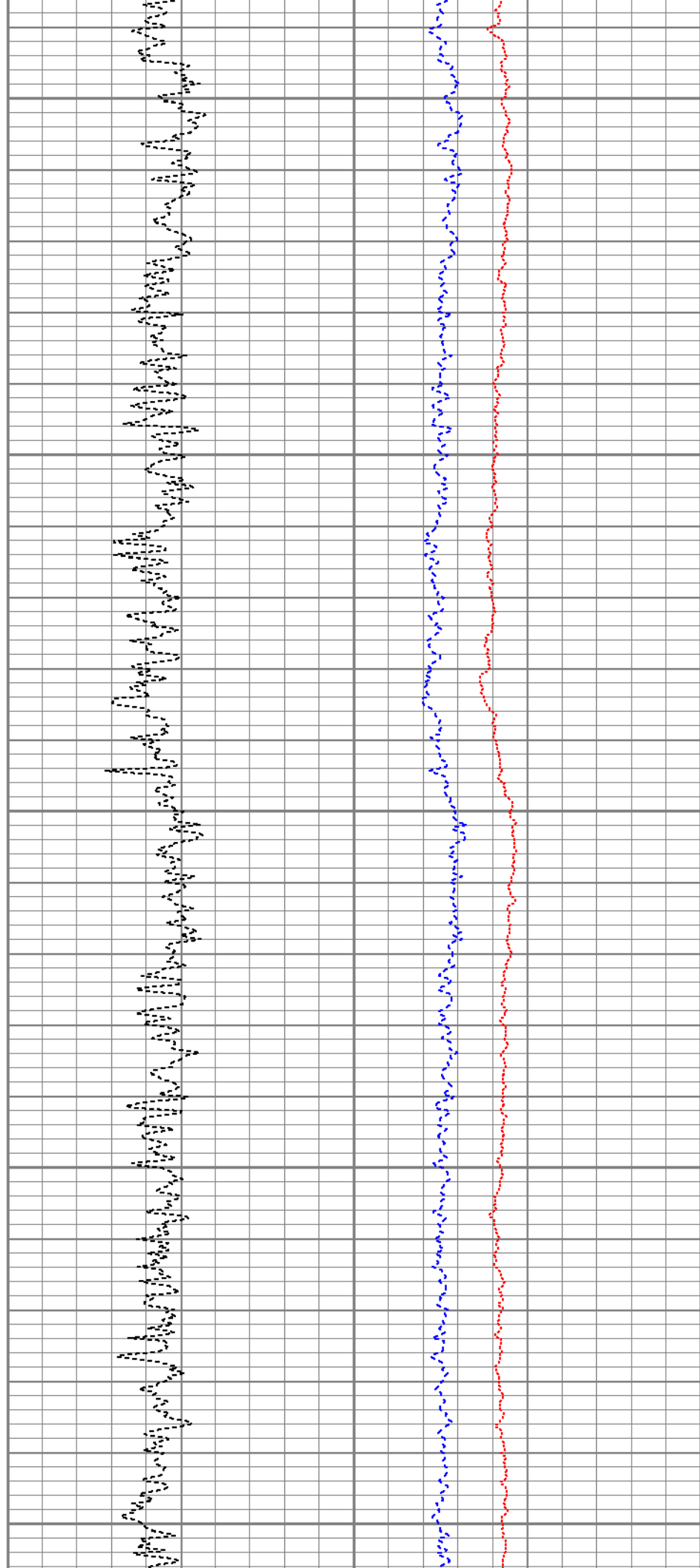
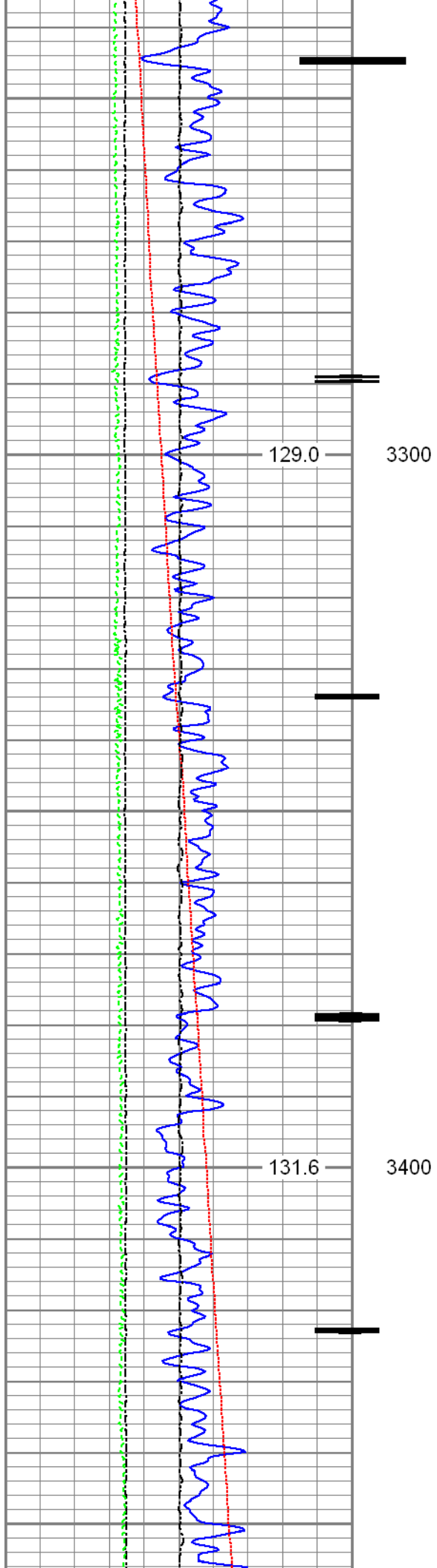


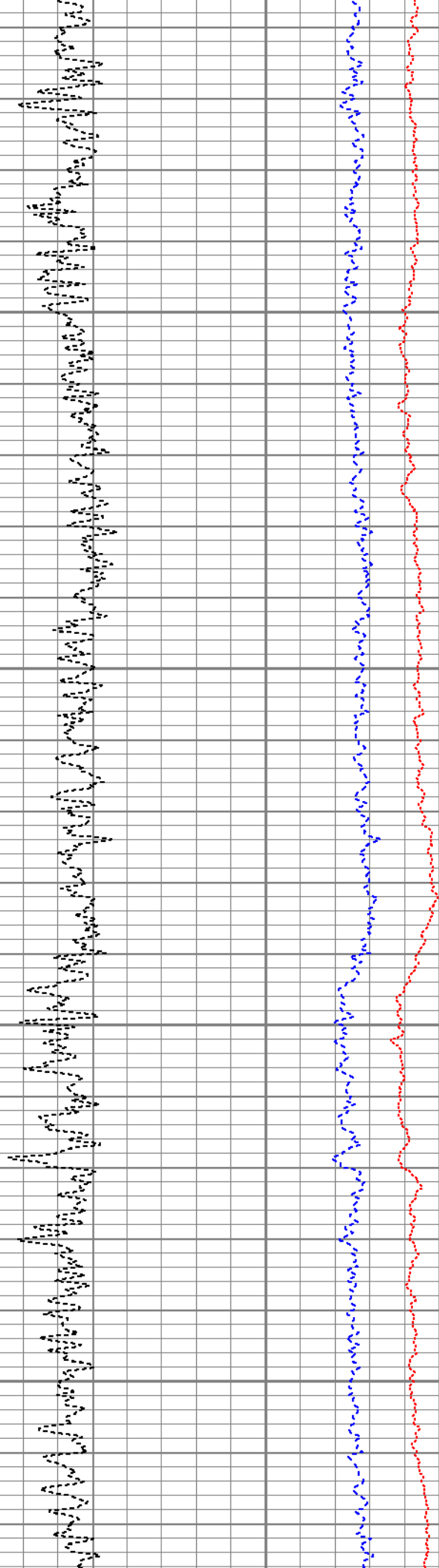
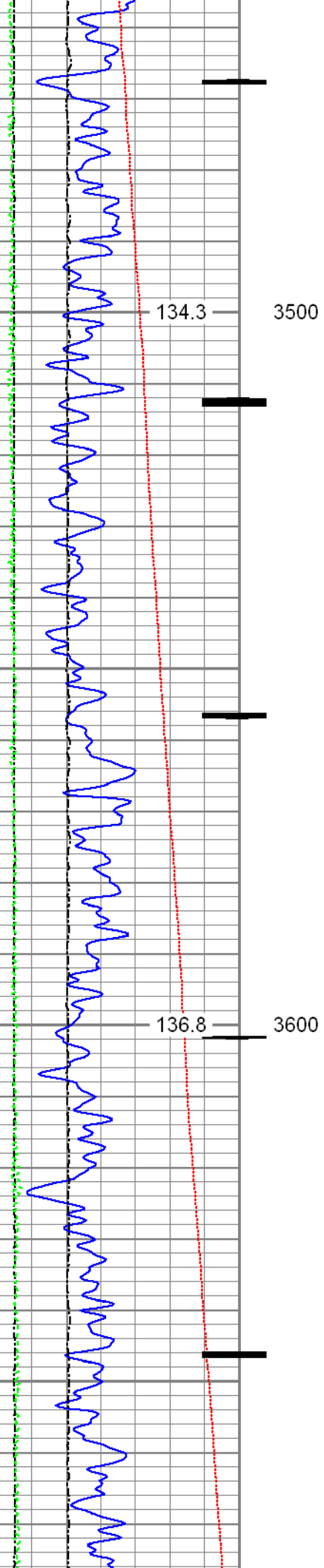


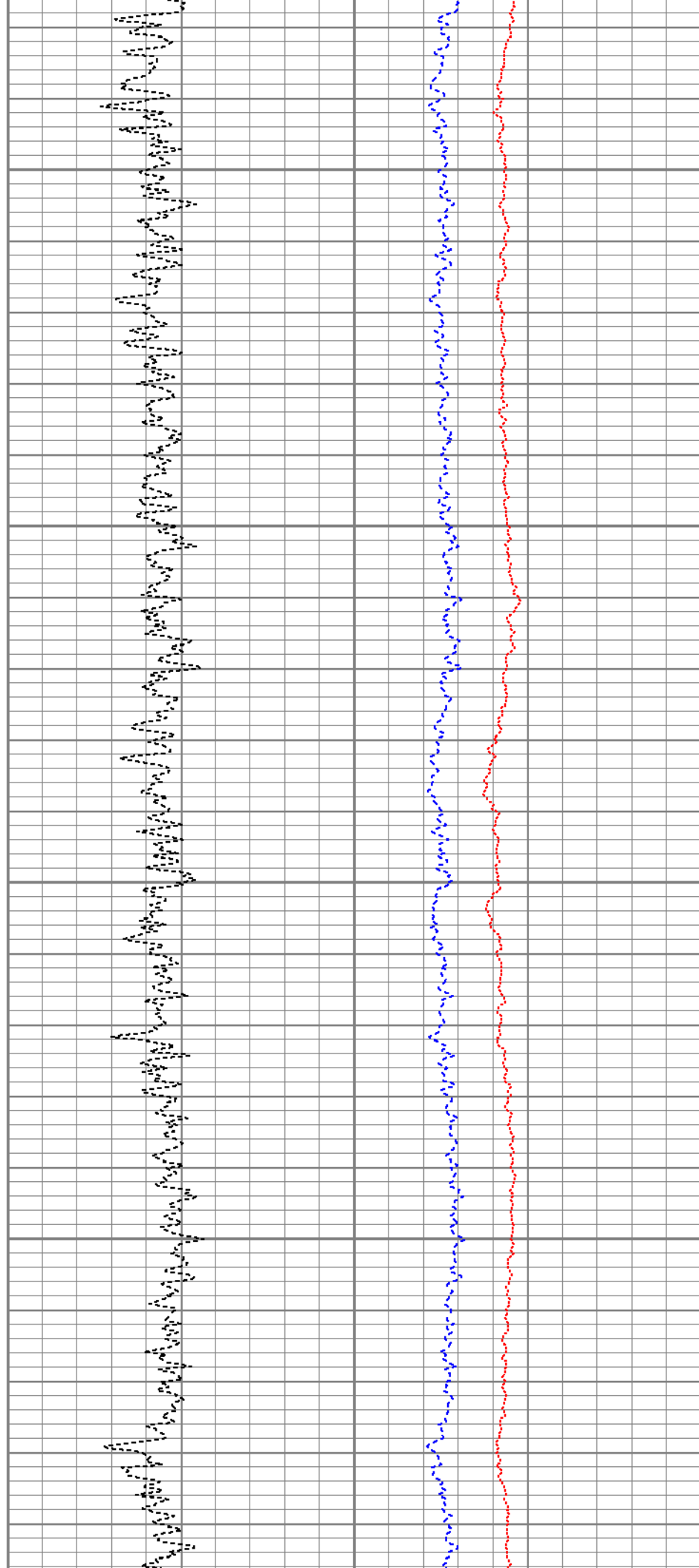
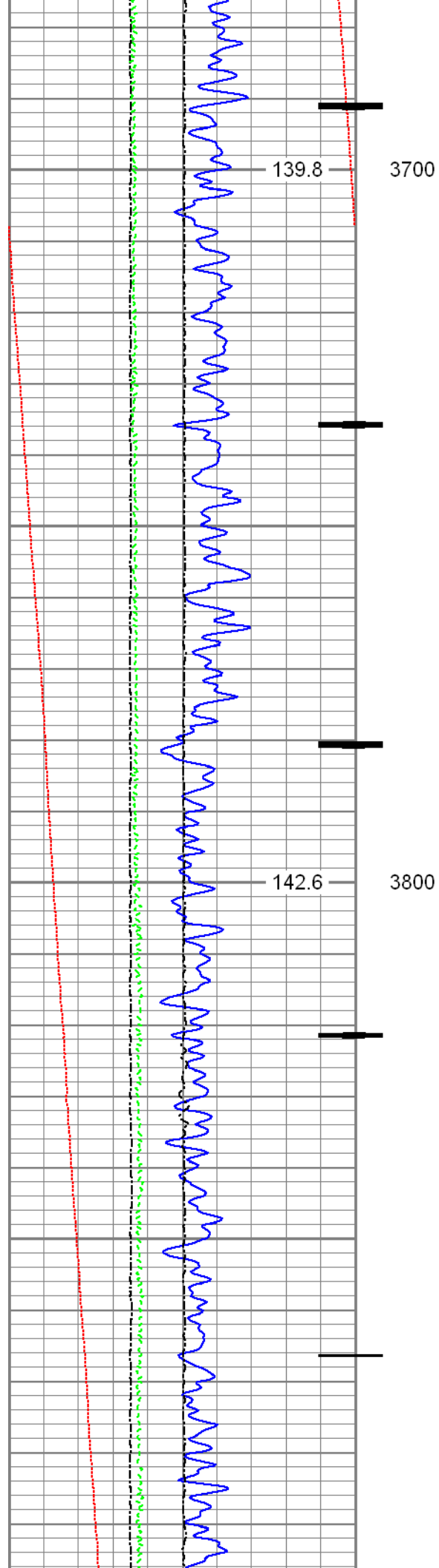


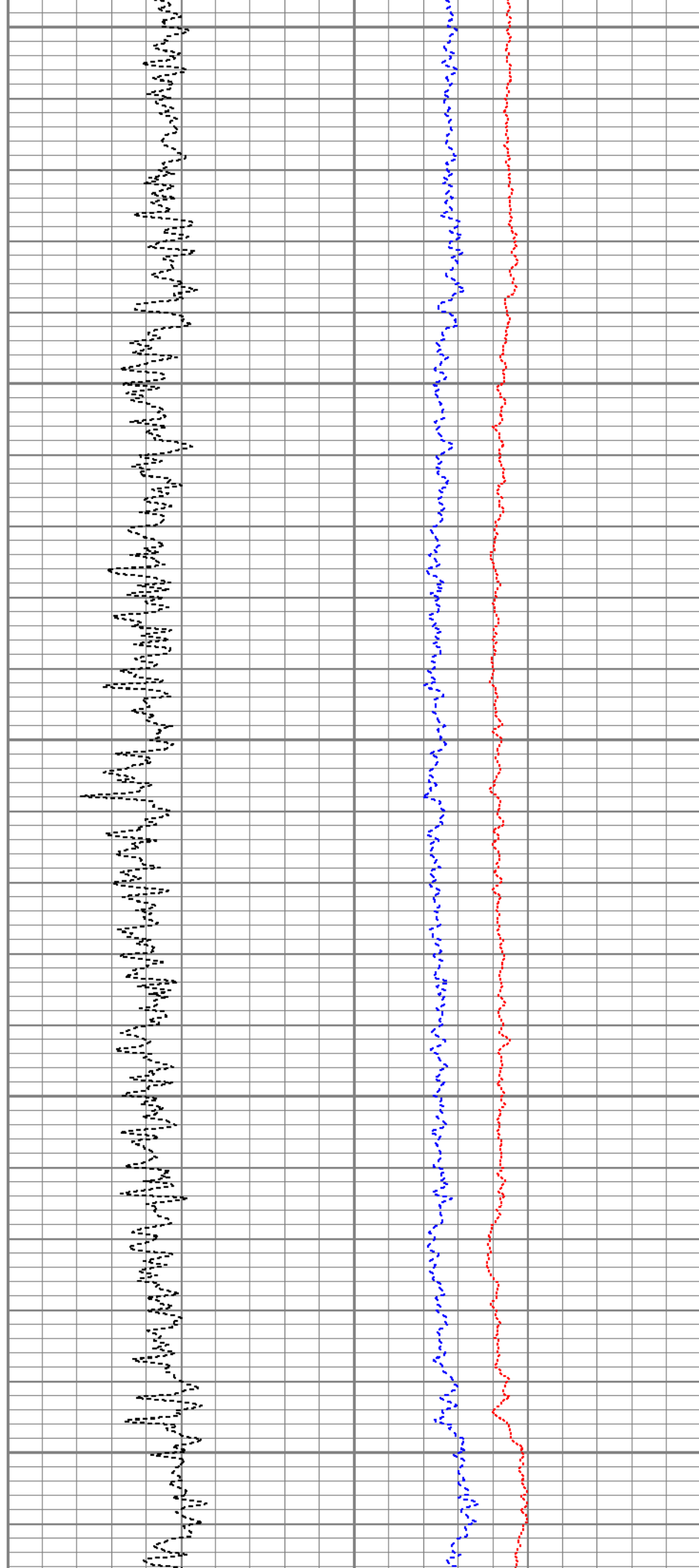
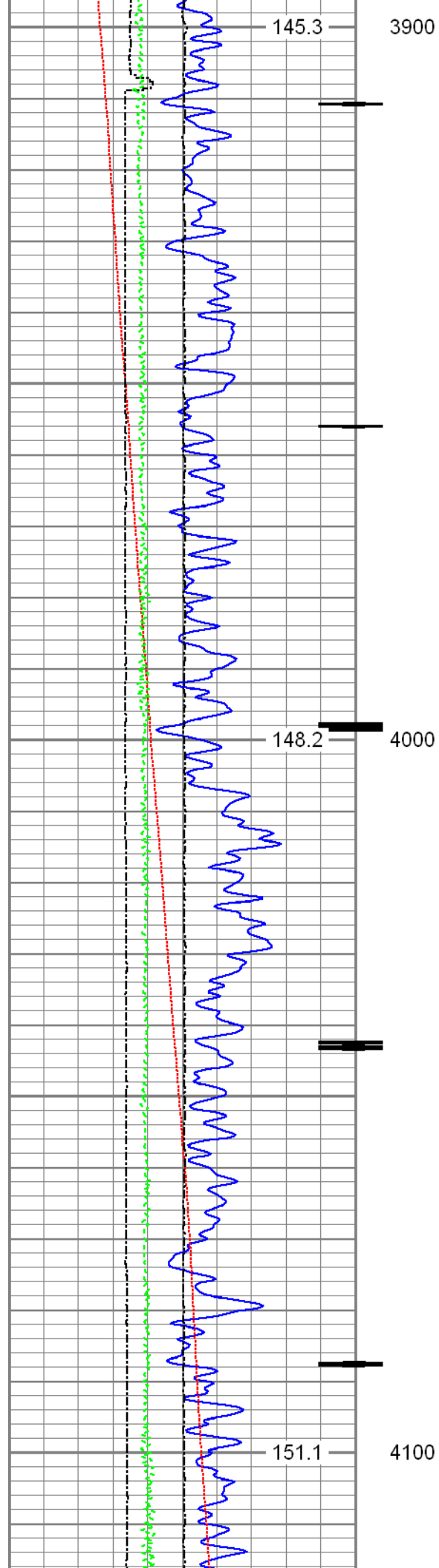


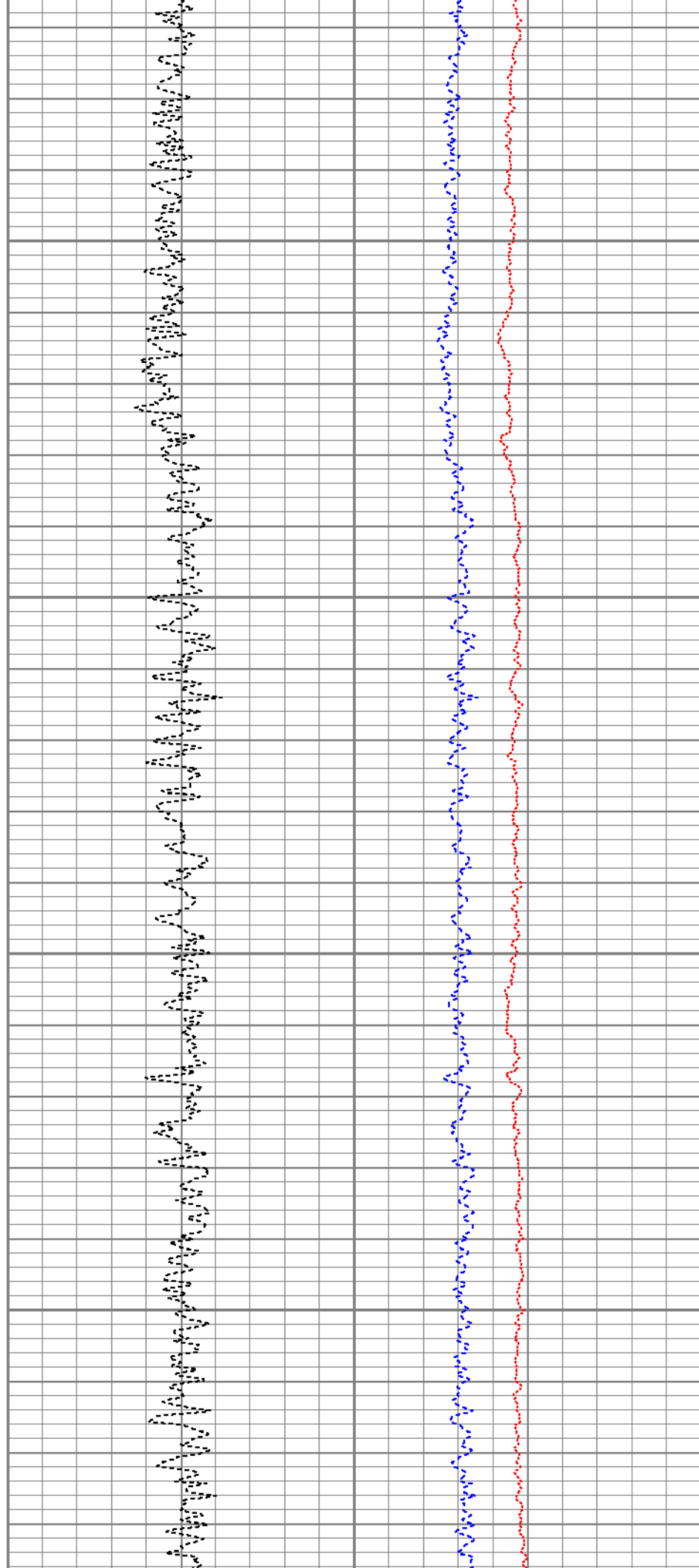
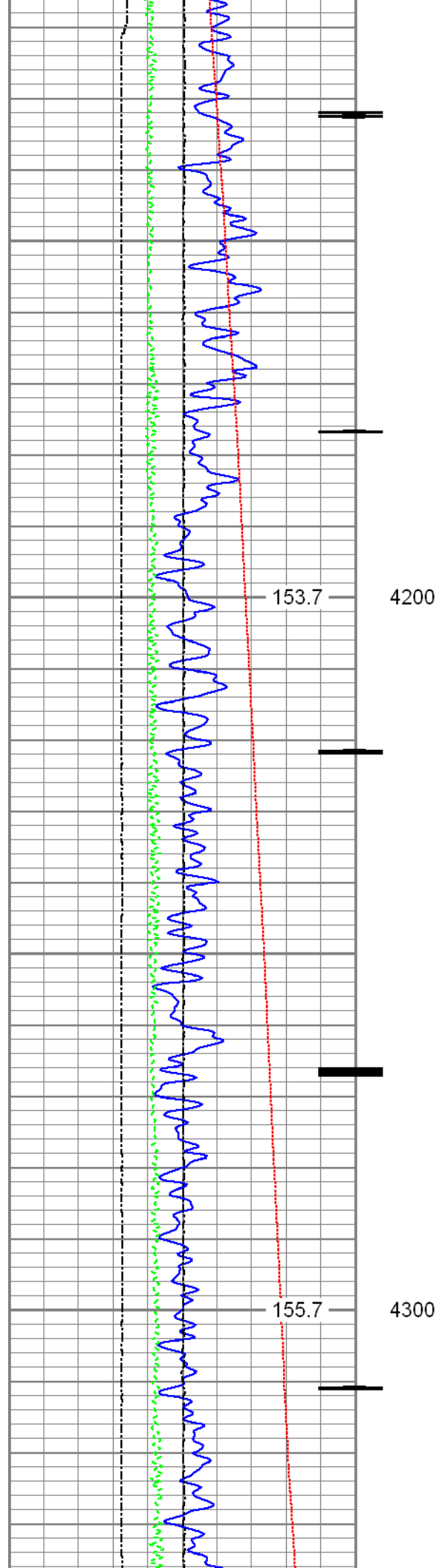


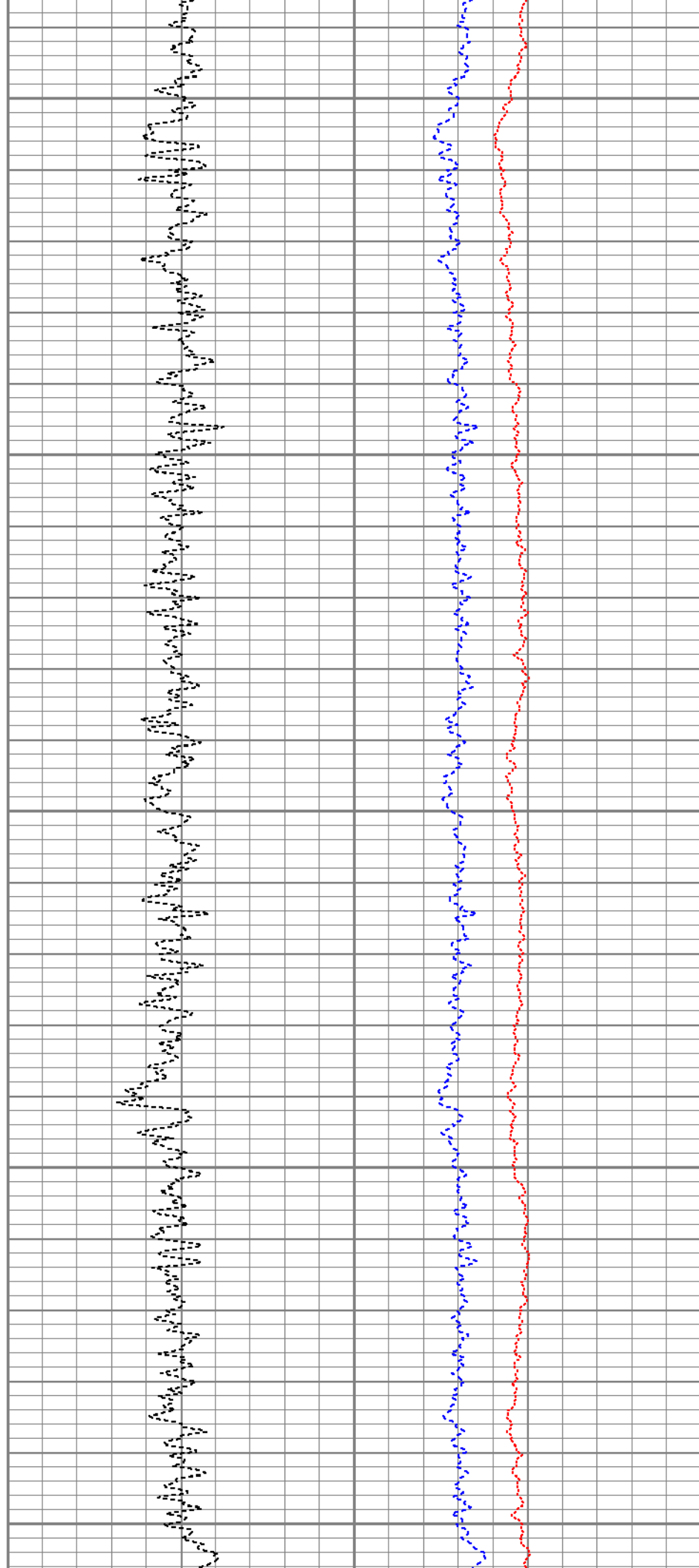
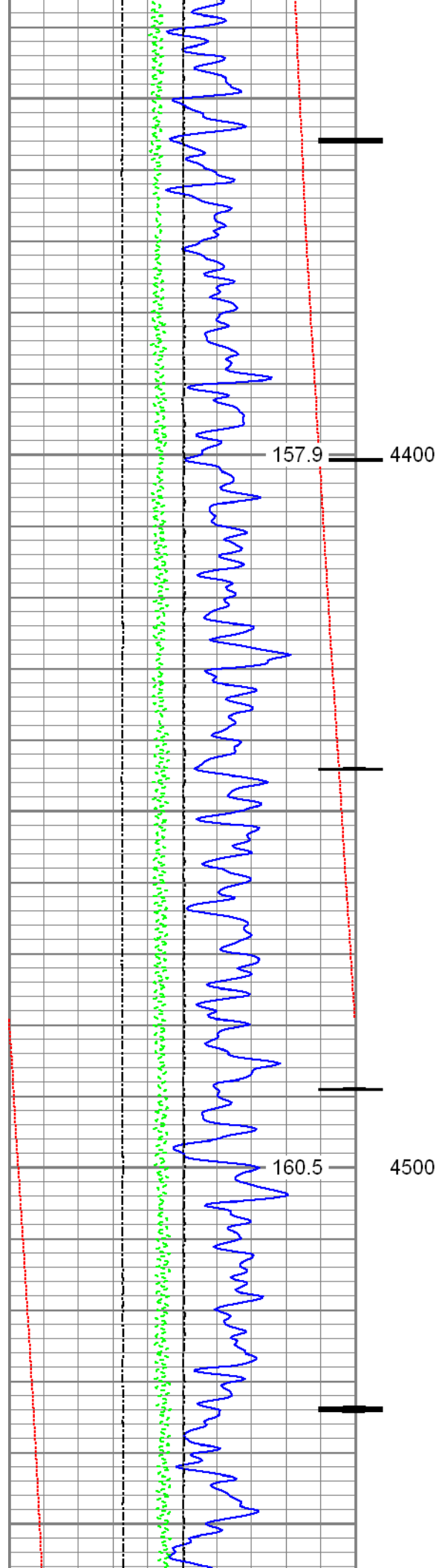


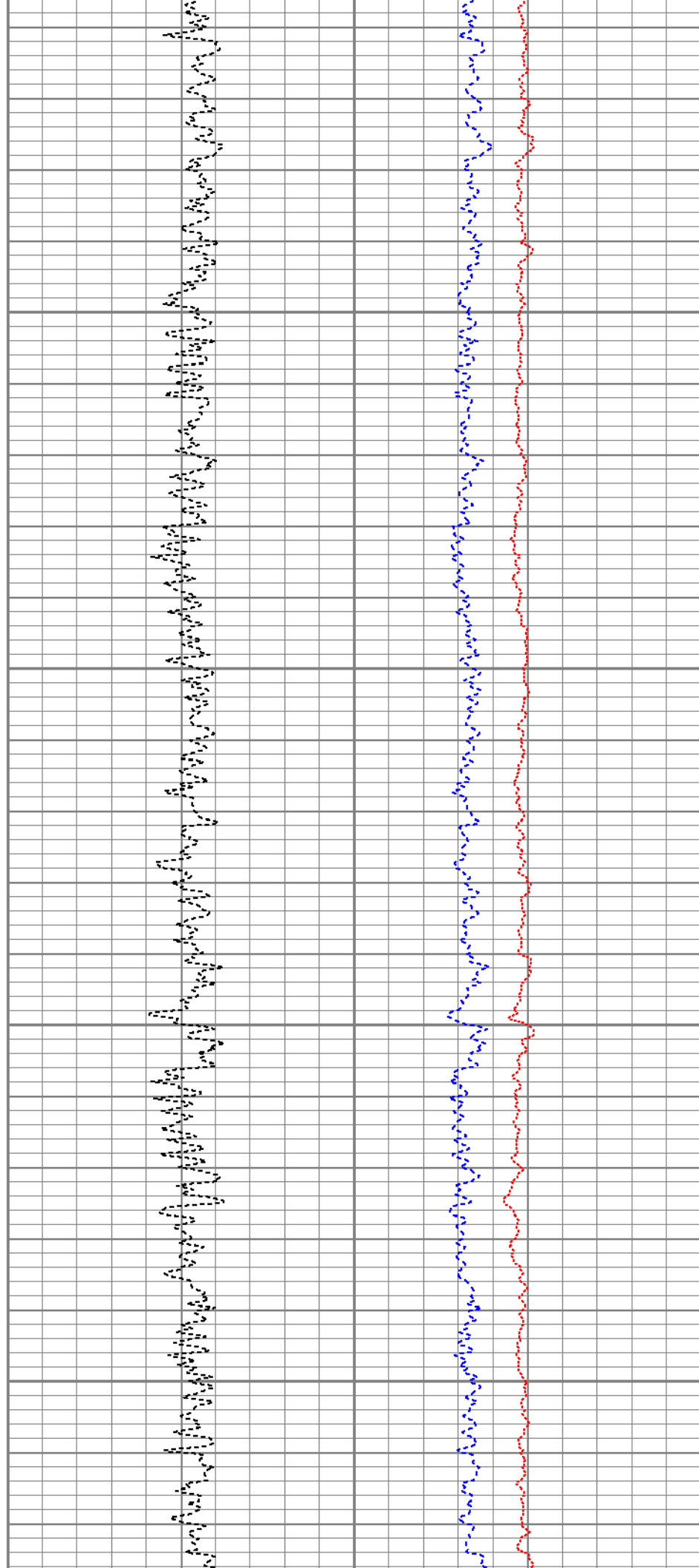
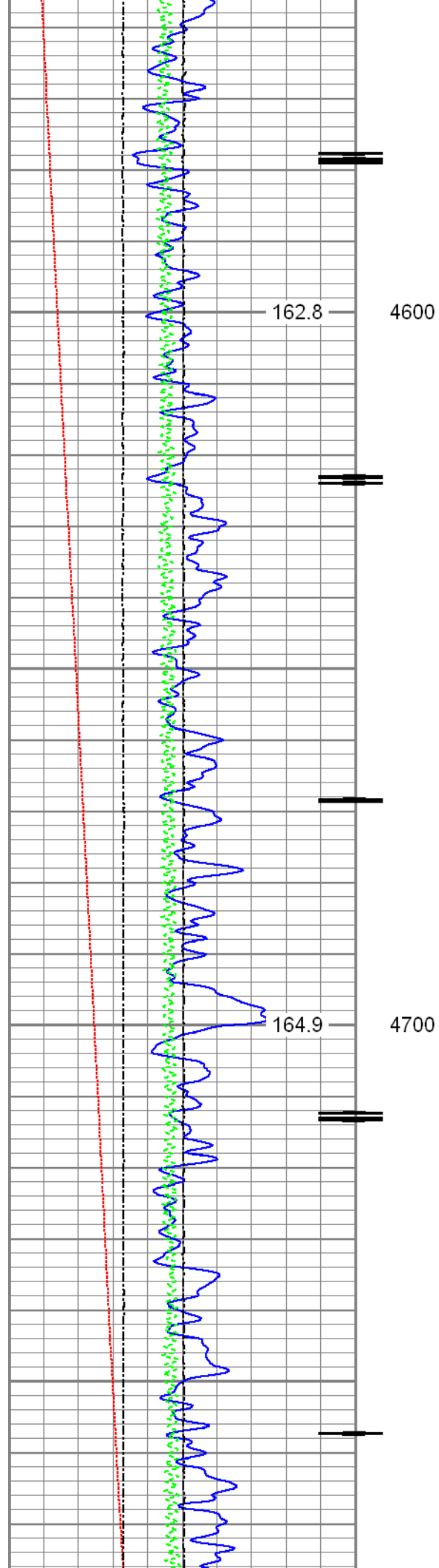


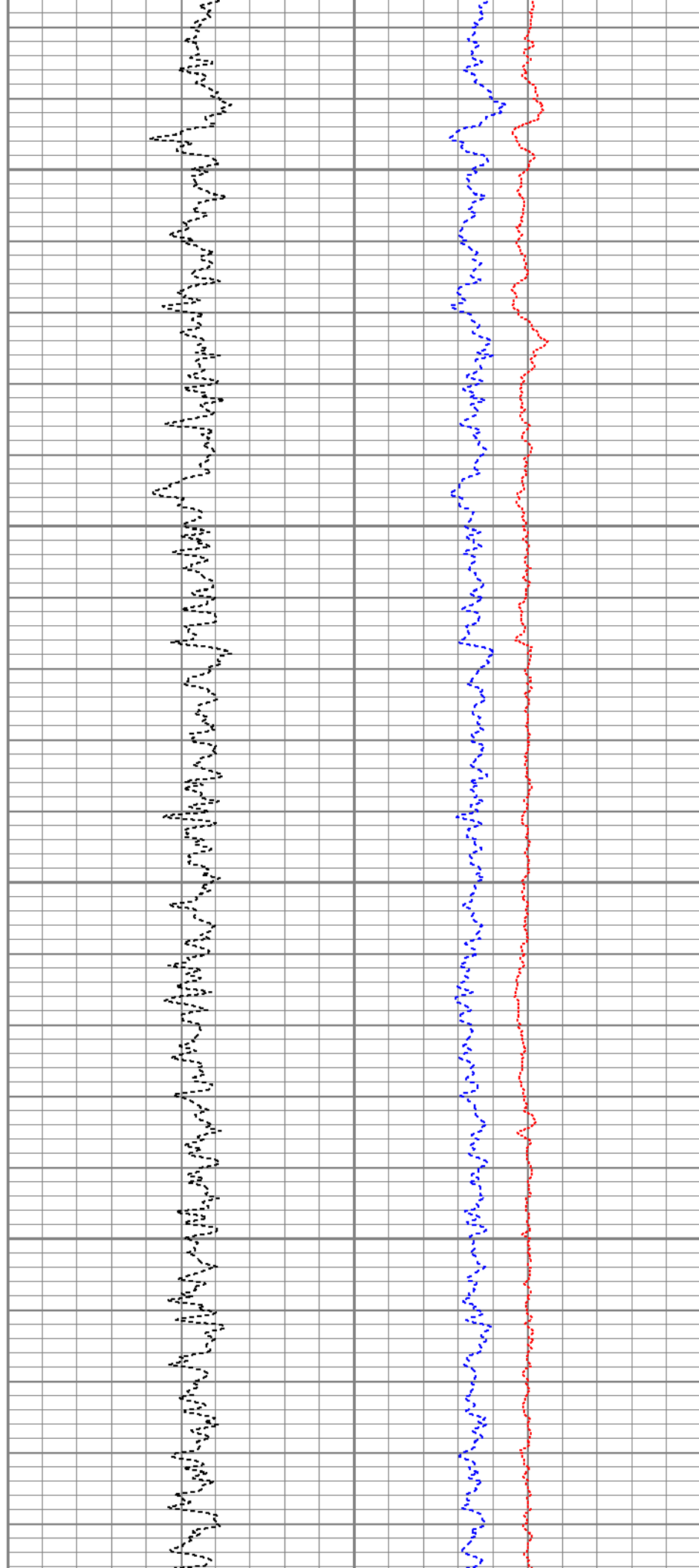
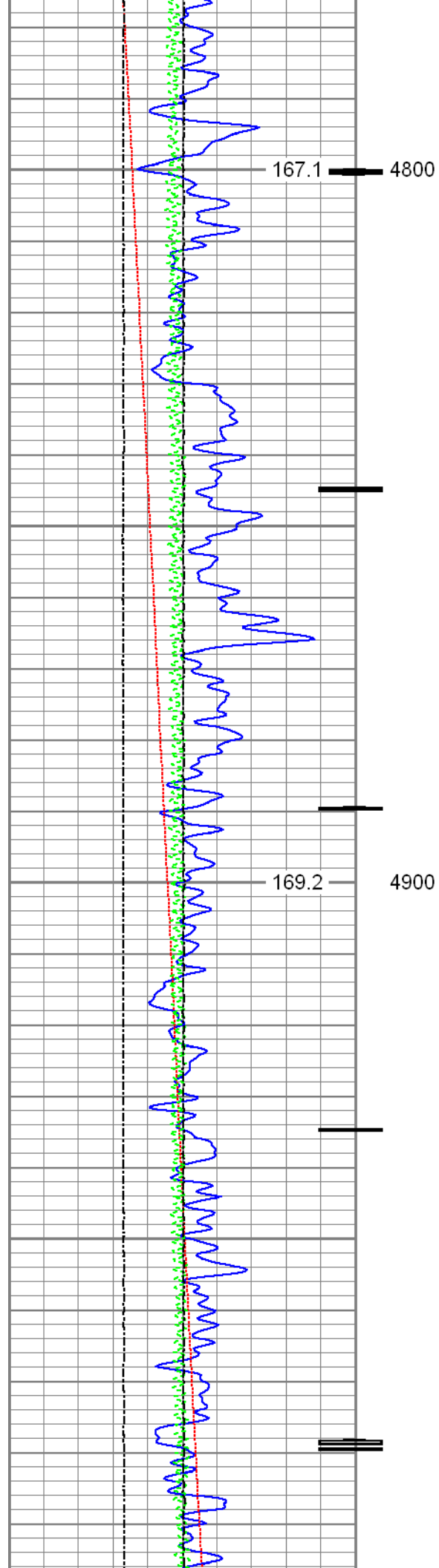


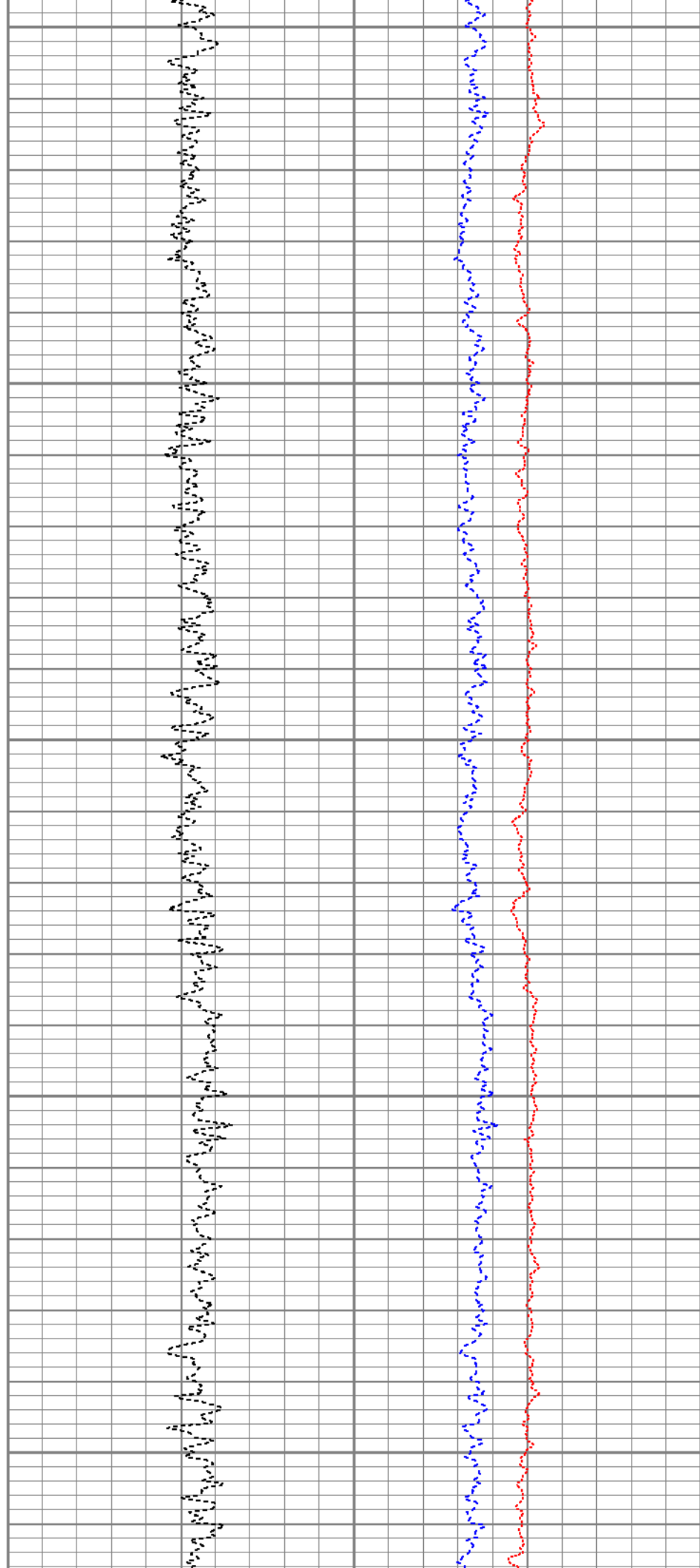
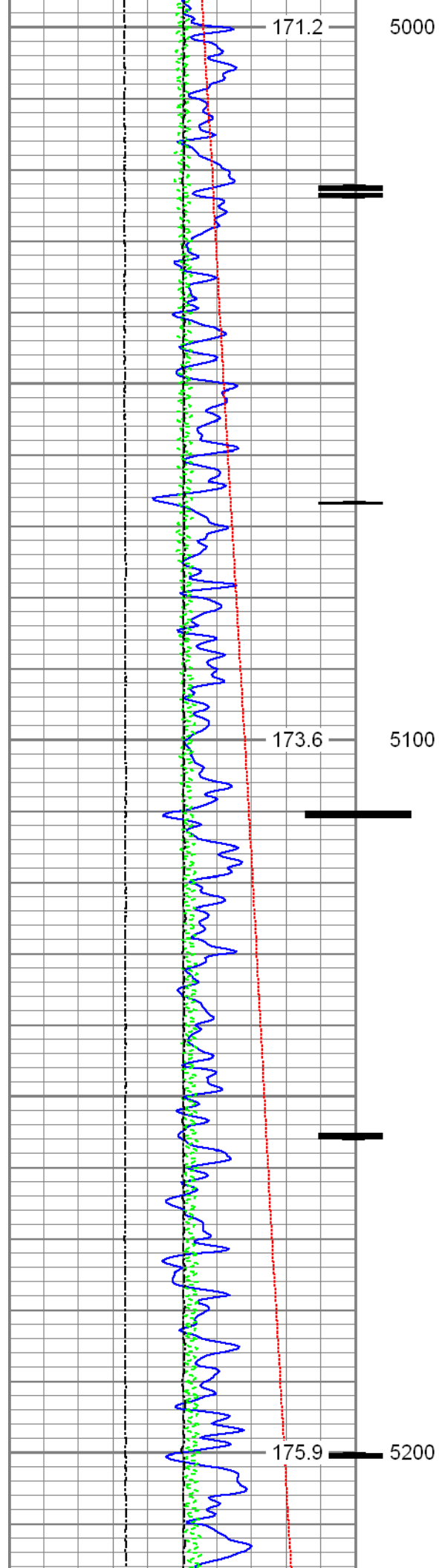


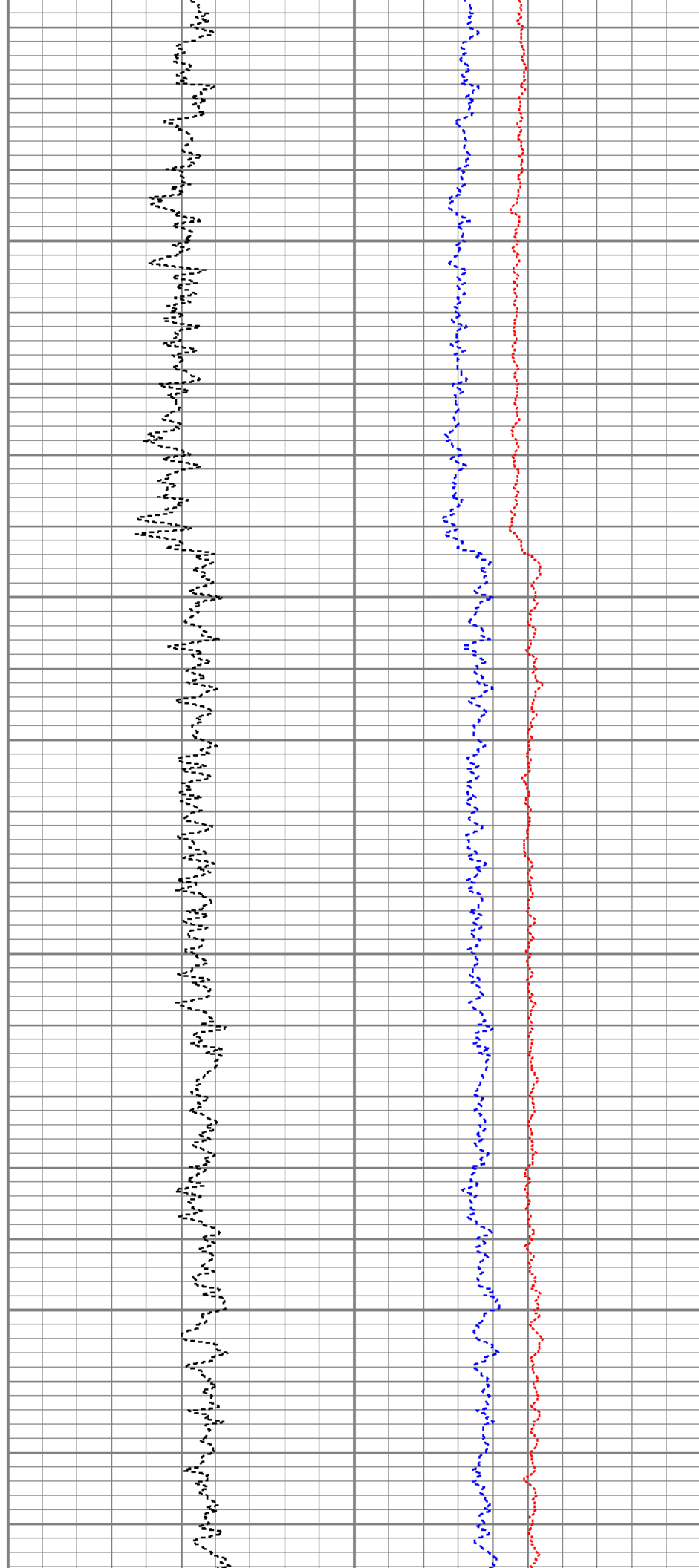
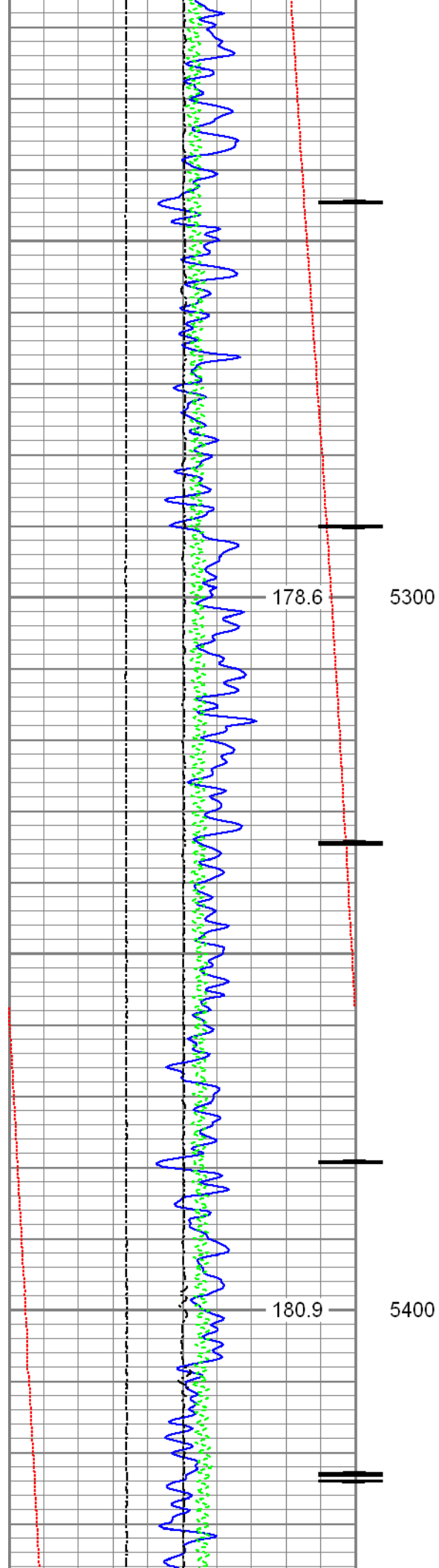


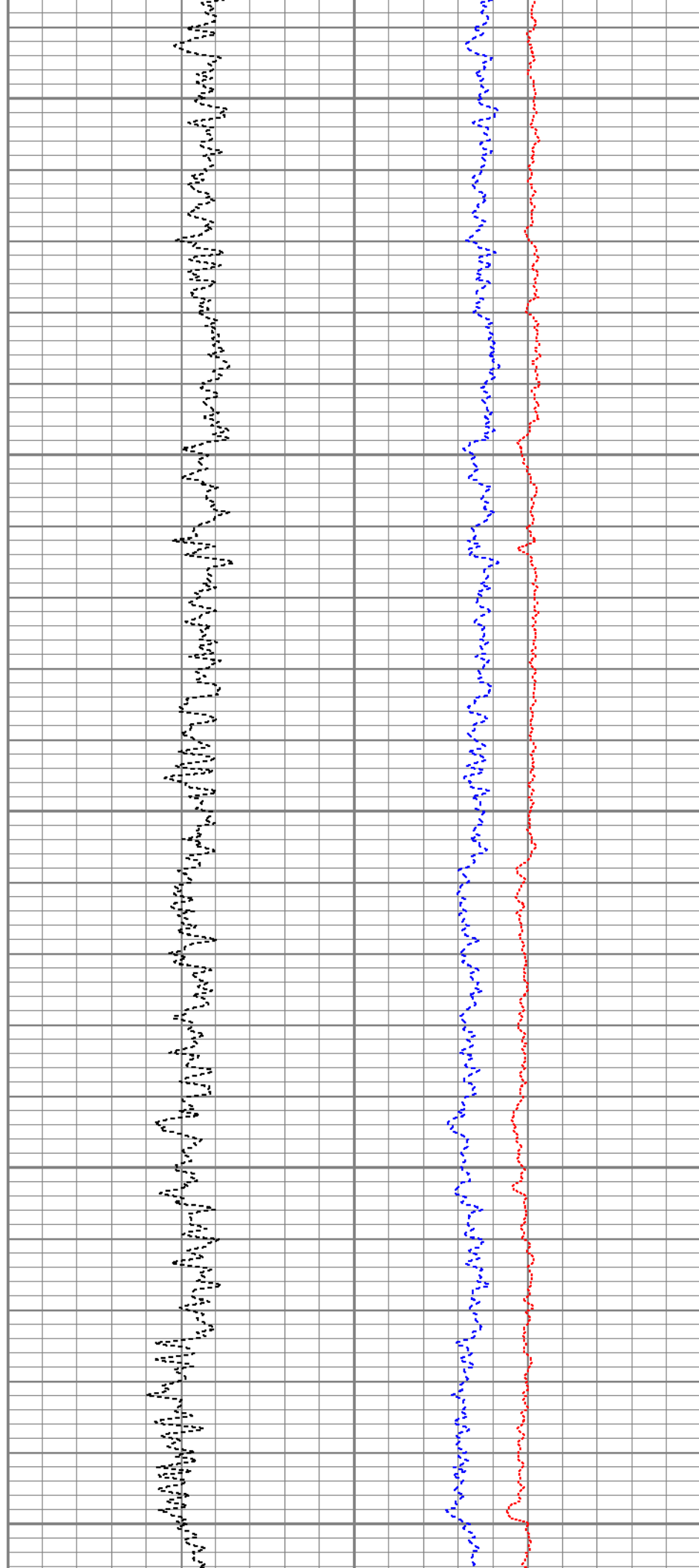
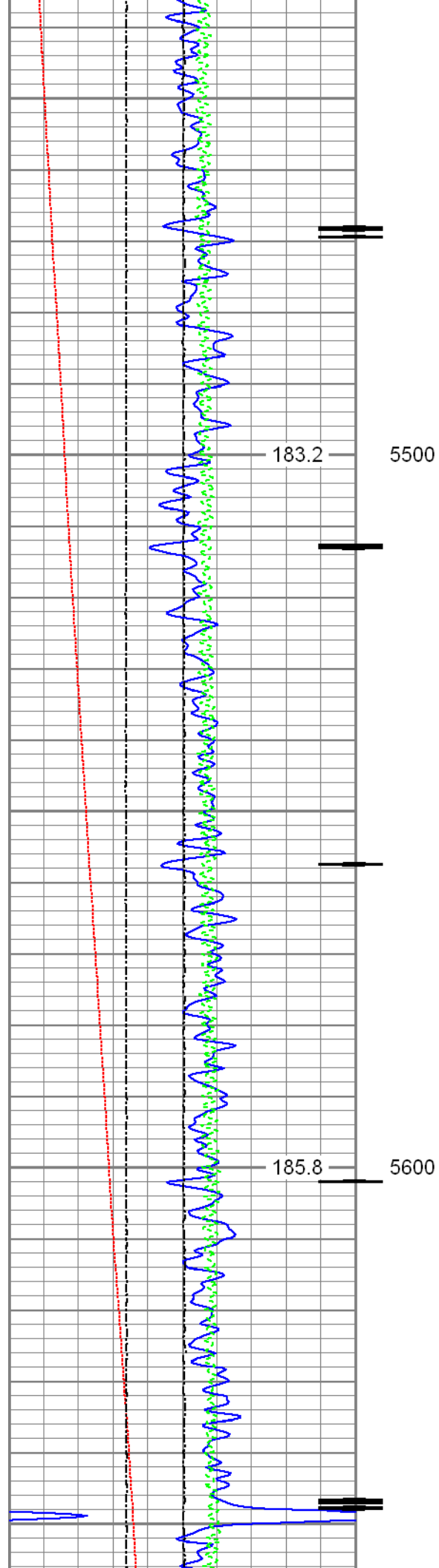


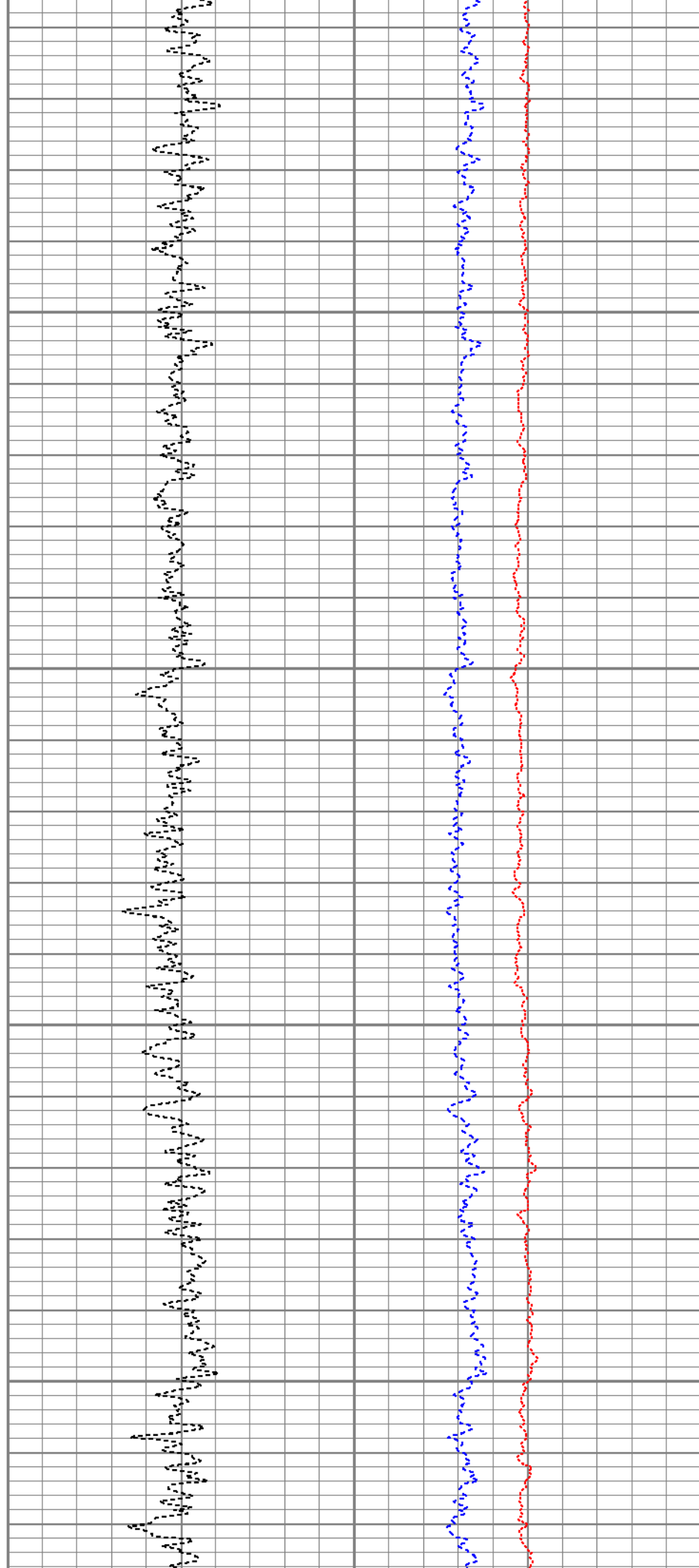
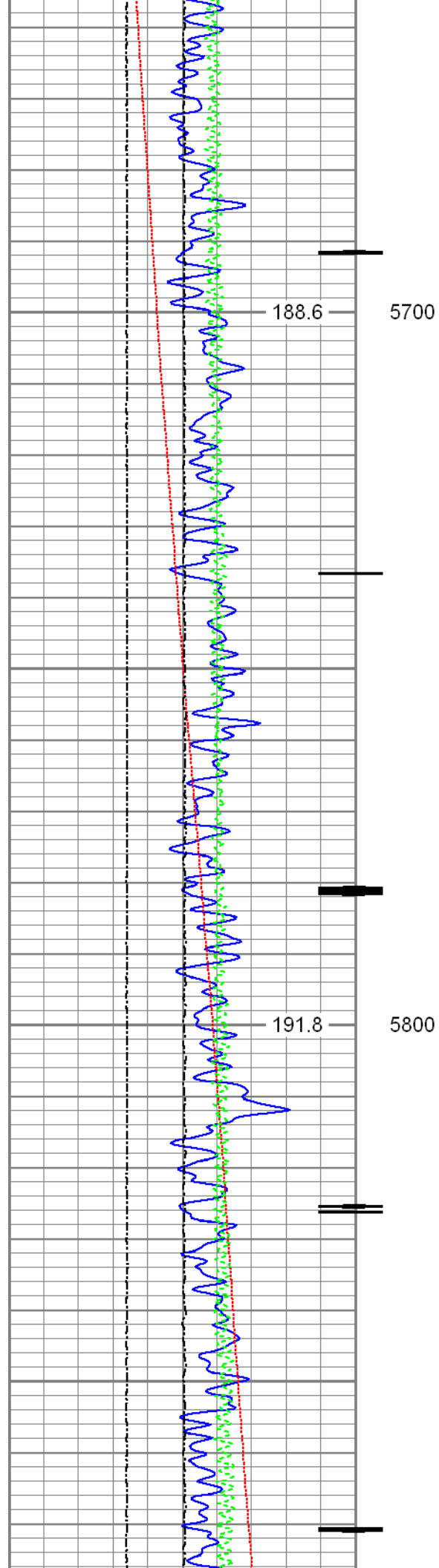


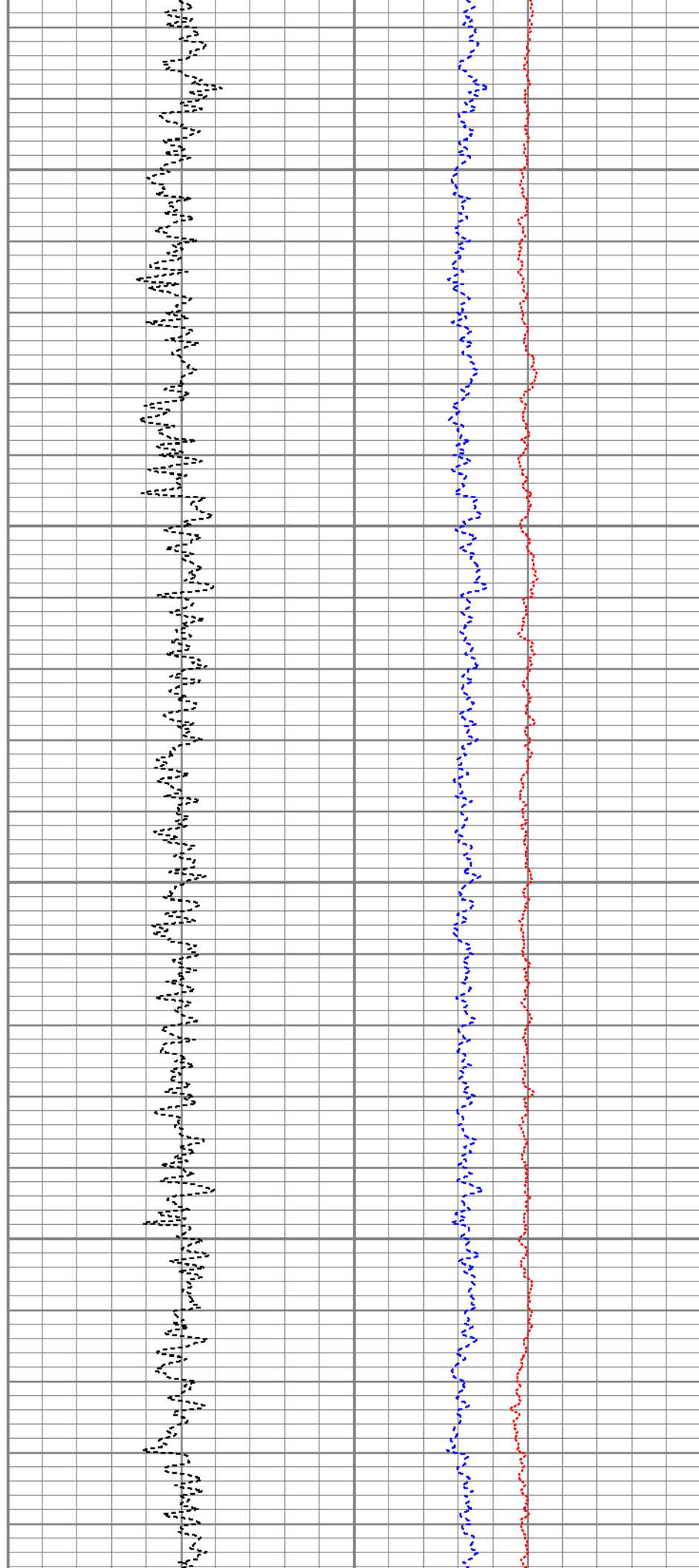
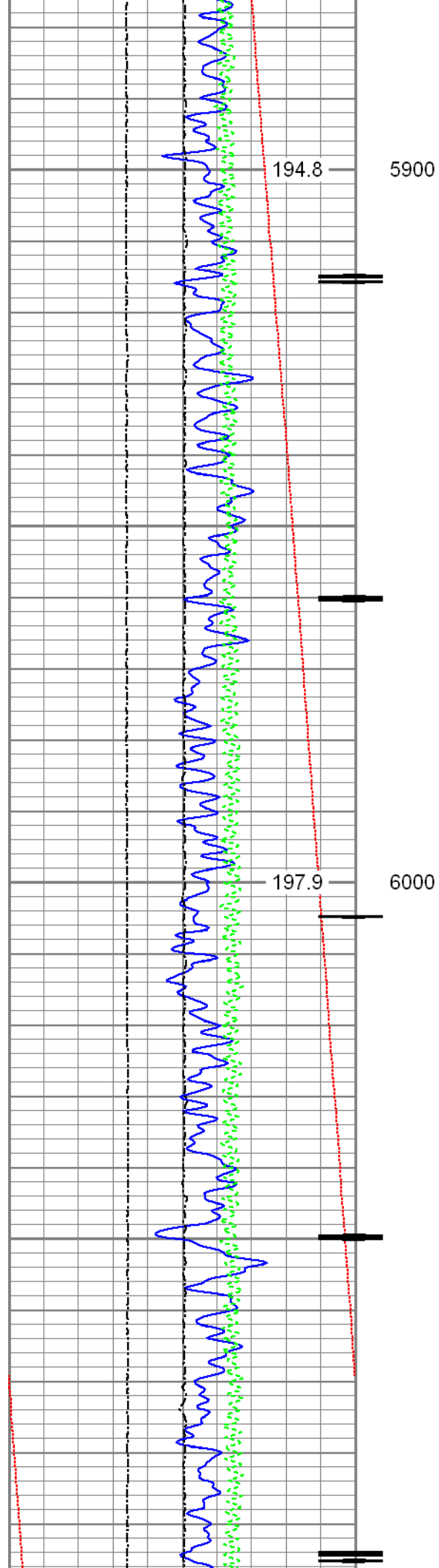


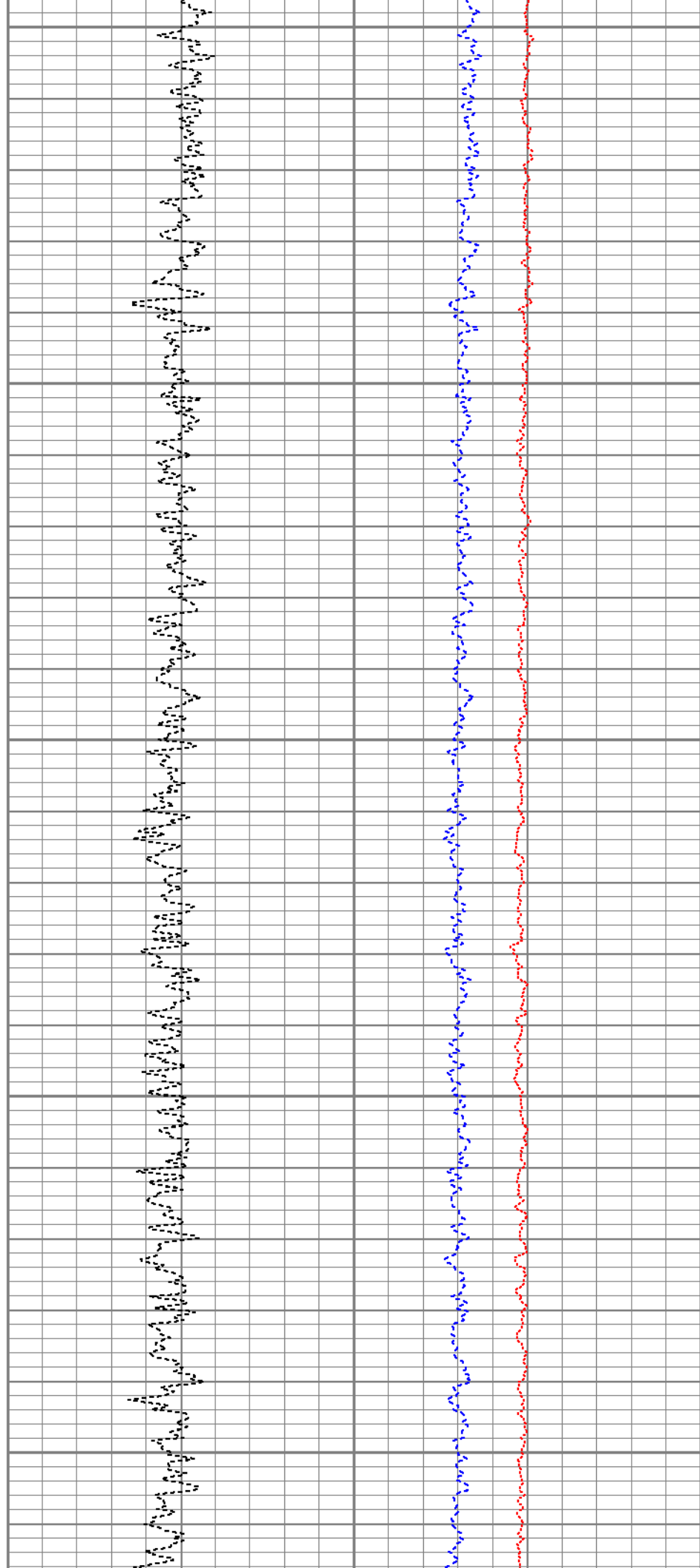
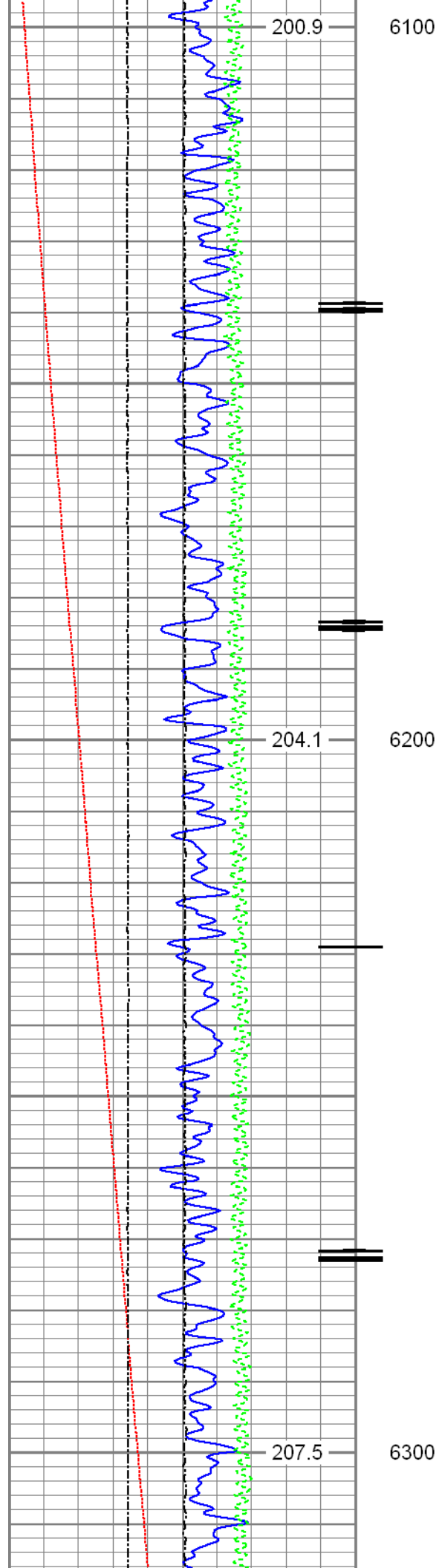


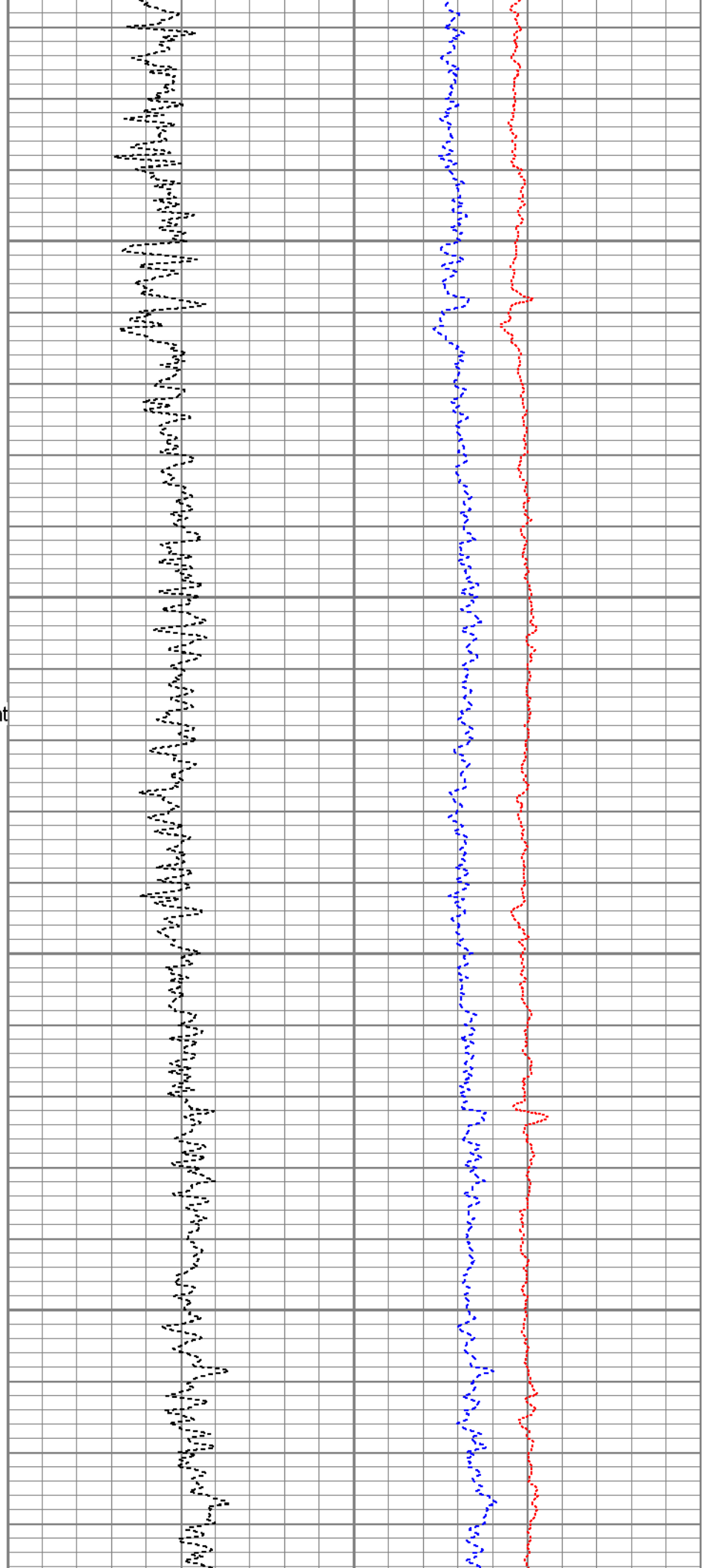
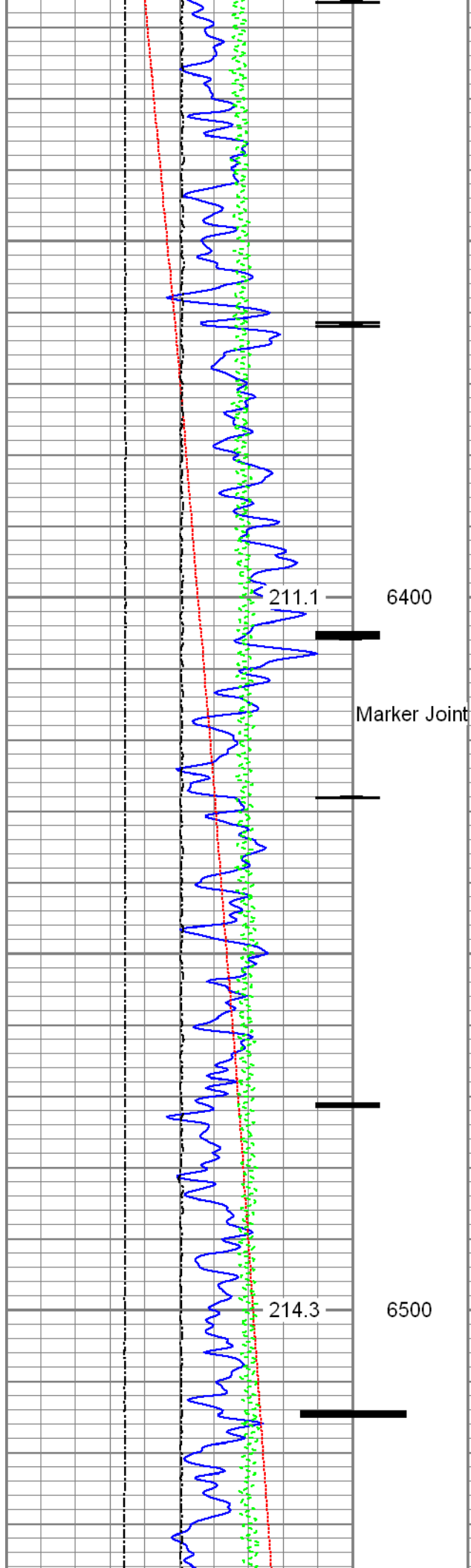


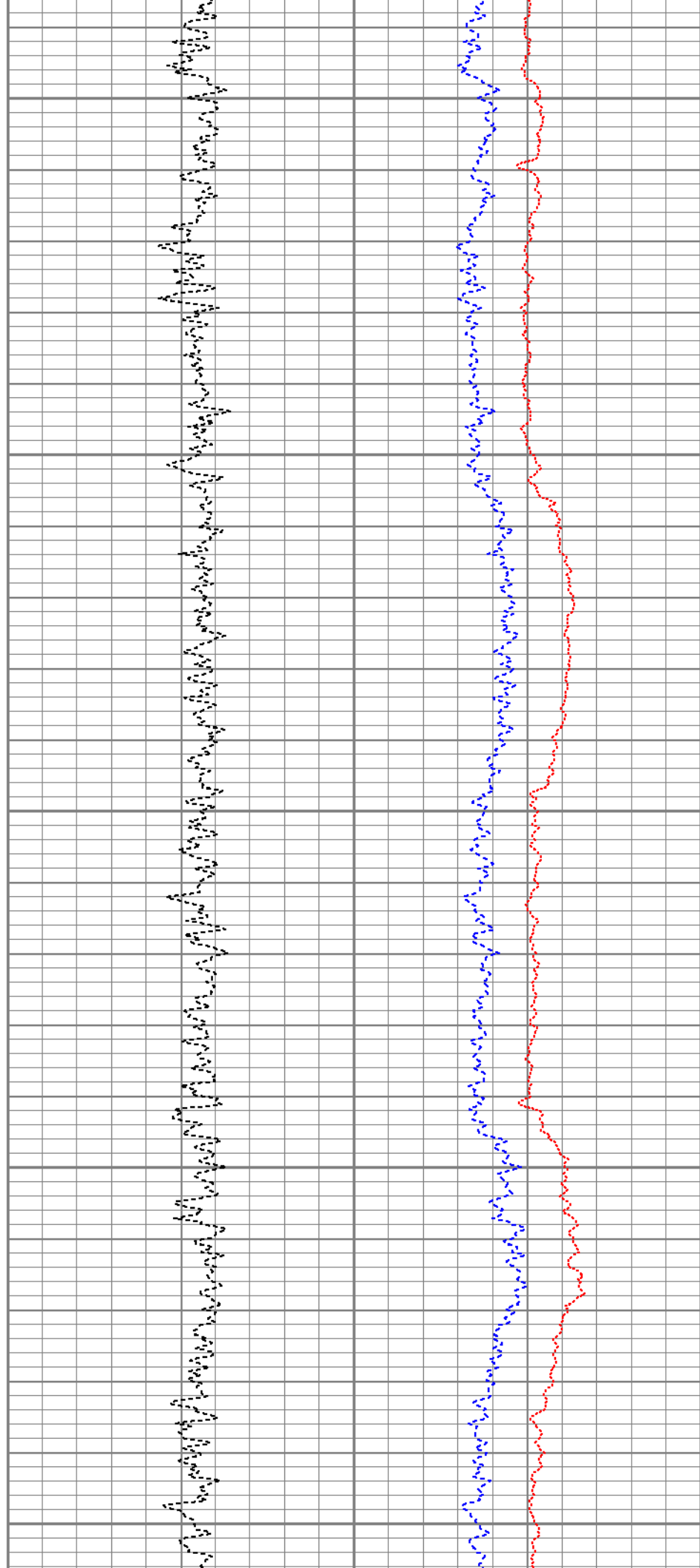
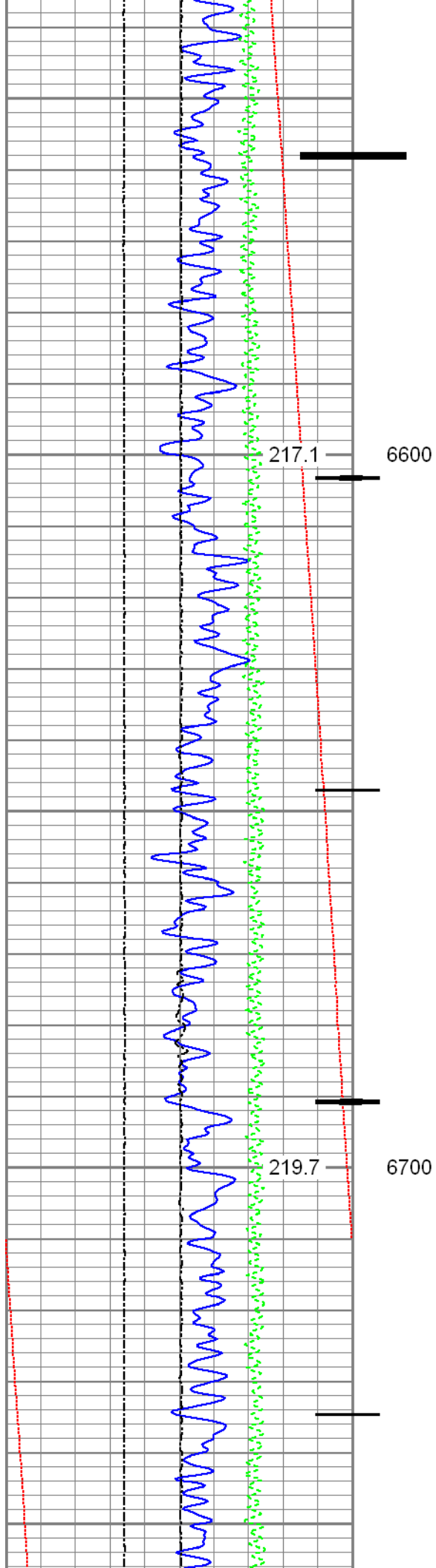


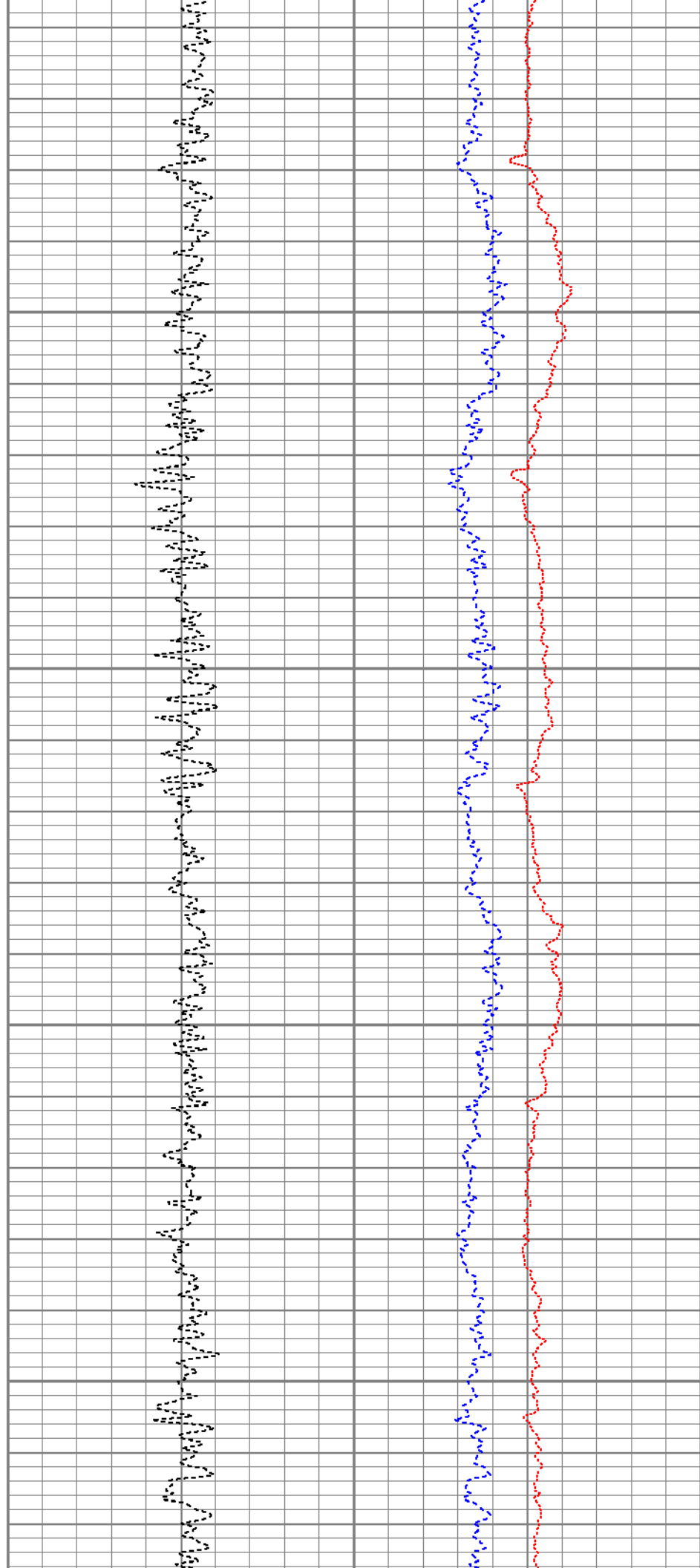
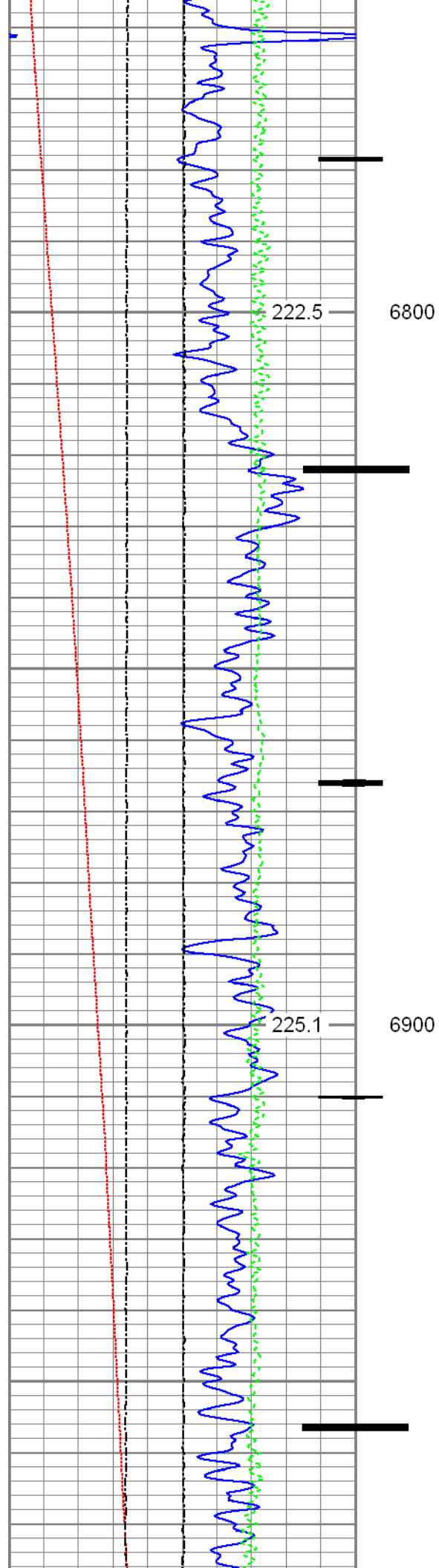


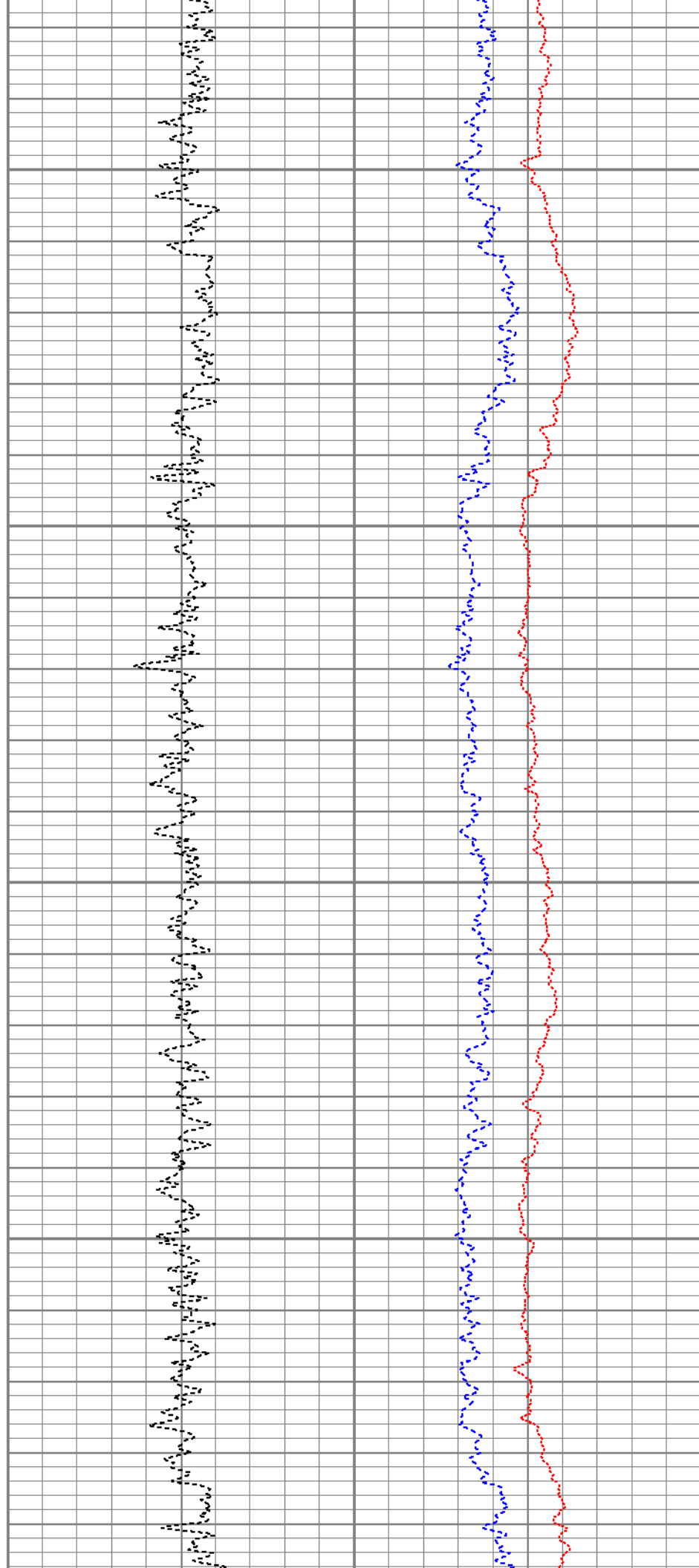
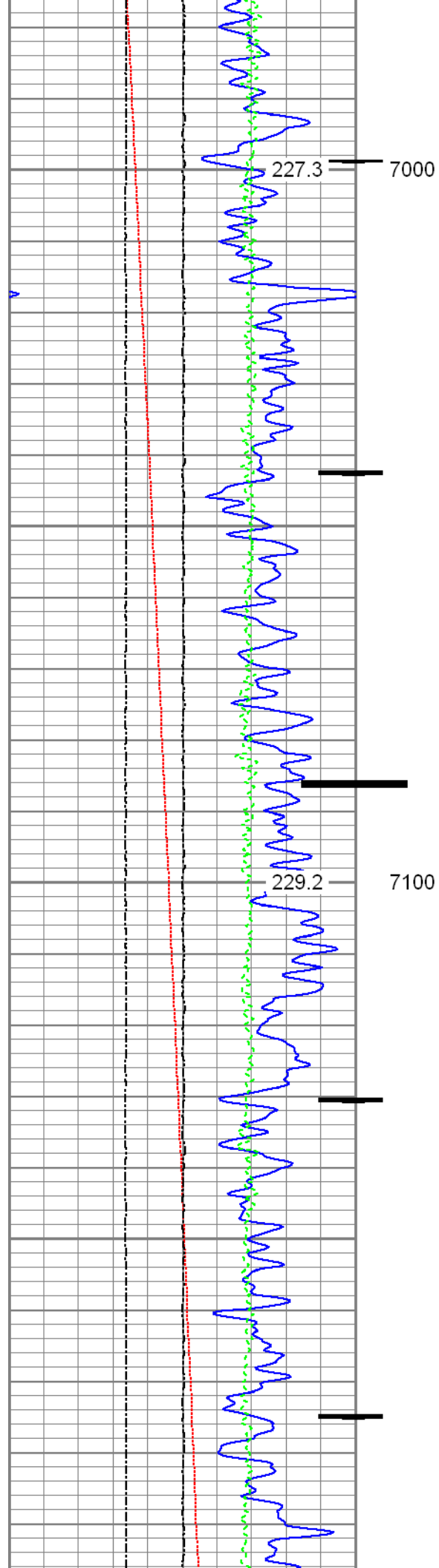


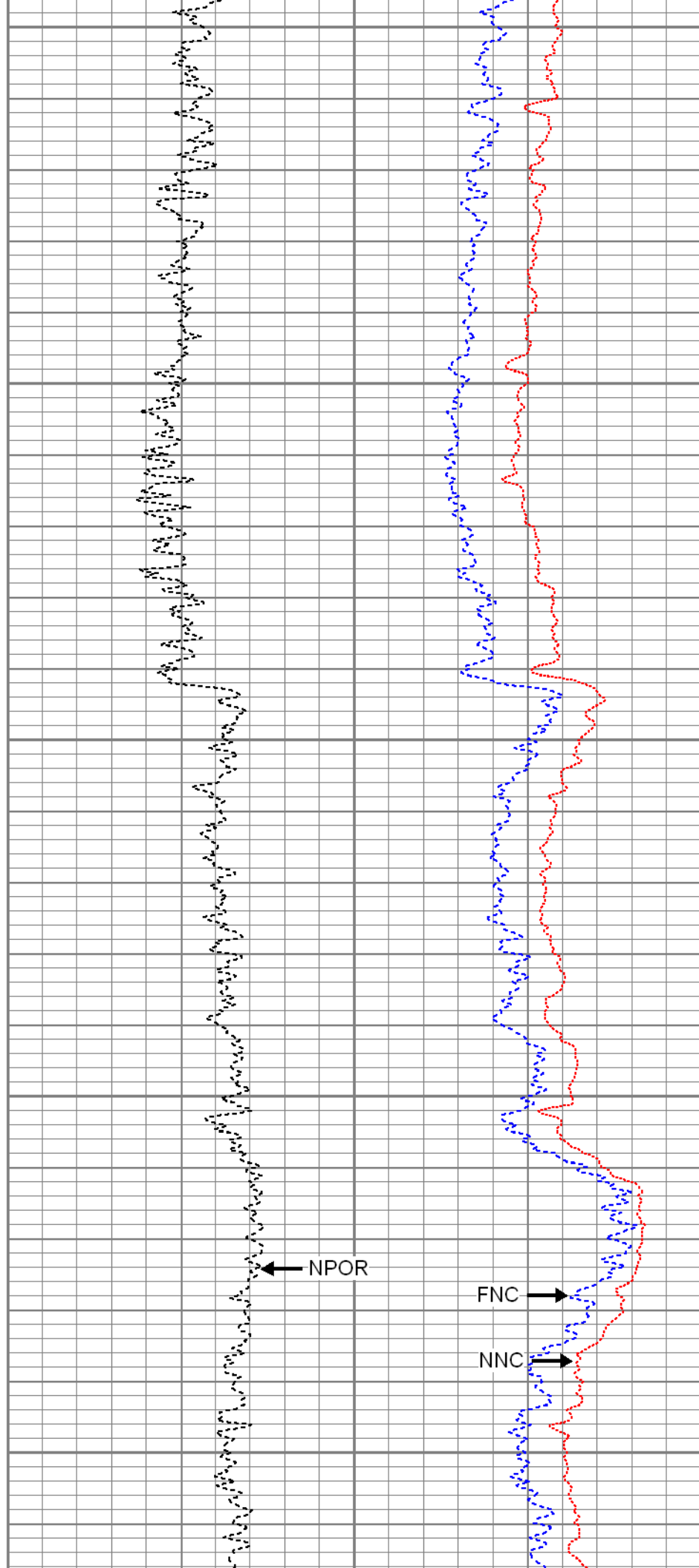
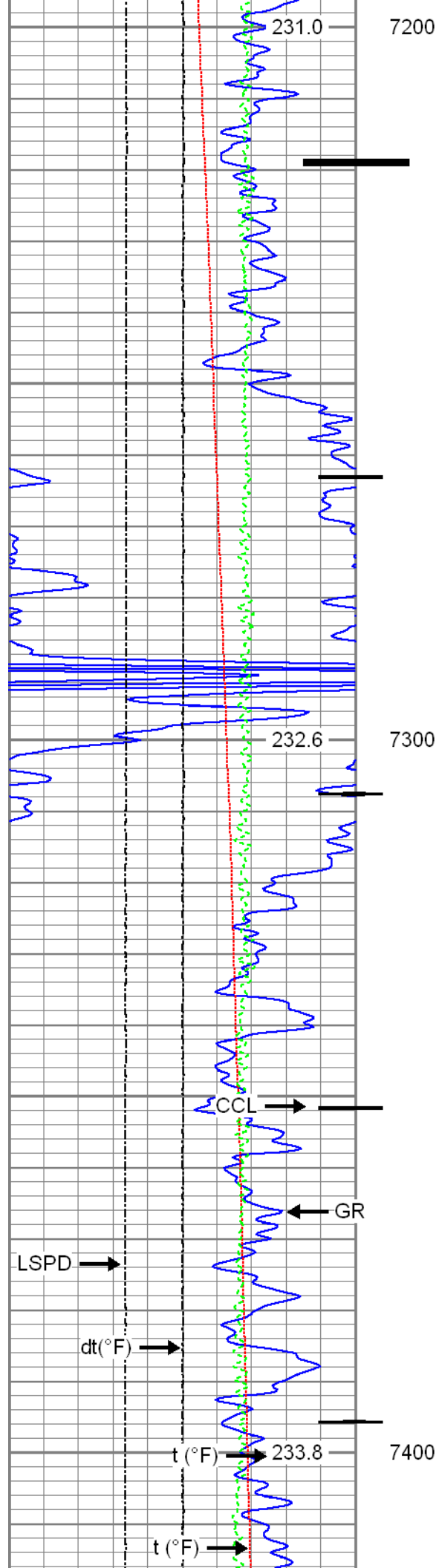


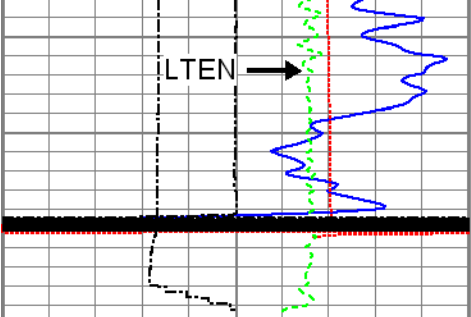




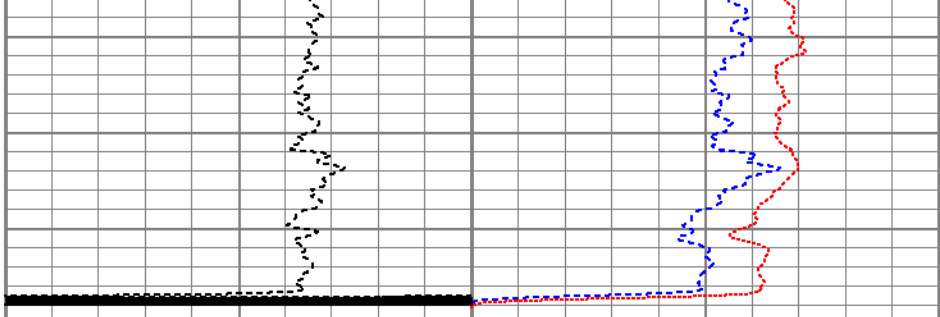








0	Gamma Ray (GAPI)	120
0	Temperature (degF)	20
-100	Line Speed (ft/min)	100
0	Line Tension (lb)	2000
-2	Differential Temperature (degF)	2
	Casing Collar Locator	



60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
		0	0	Near Neutron (cps)	10000



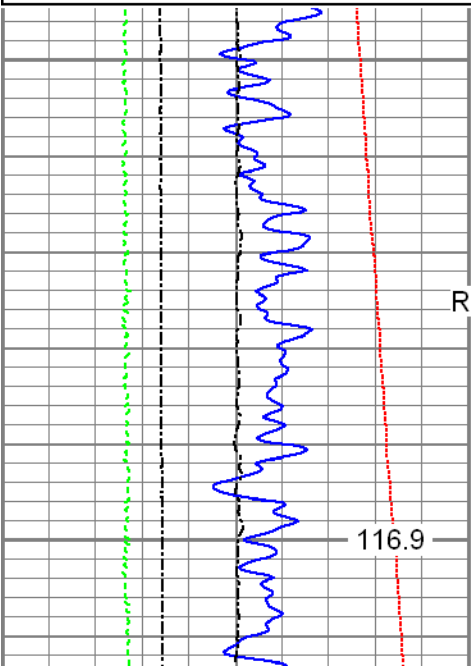
Repeat Section

Recorded with -0- PSI Surface Pressure

Database File: 0512341330_anadarko_joker 26n2-9hz_09-30-15_cnl.db
 Dataset Pathname: pass2
 Presentation Format: cnl
 Dataset Creation: Wed Sep 30 09:22:38 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	120
0	Temperature (degF)	20
-100	Line Speed (ft/min)	100
0	Line Tension (lb)	2000
-2	Differential Temperature (degF)	2

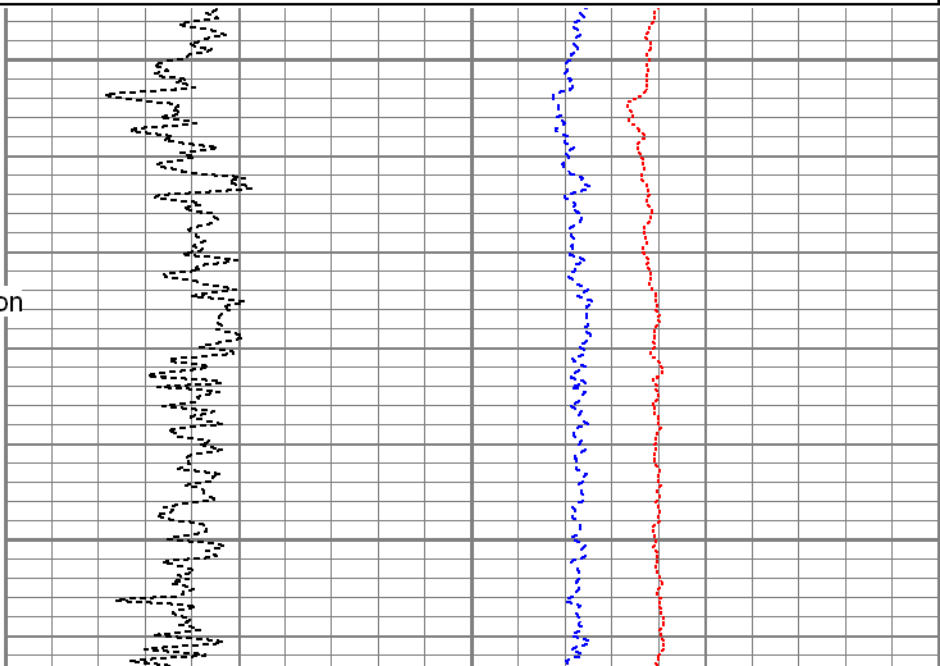
60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
		0	0	Near Neutron (cps)	10000

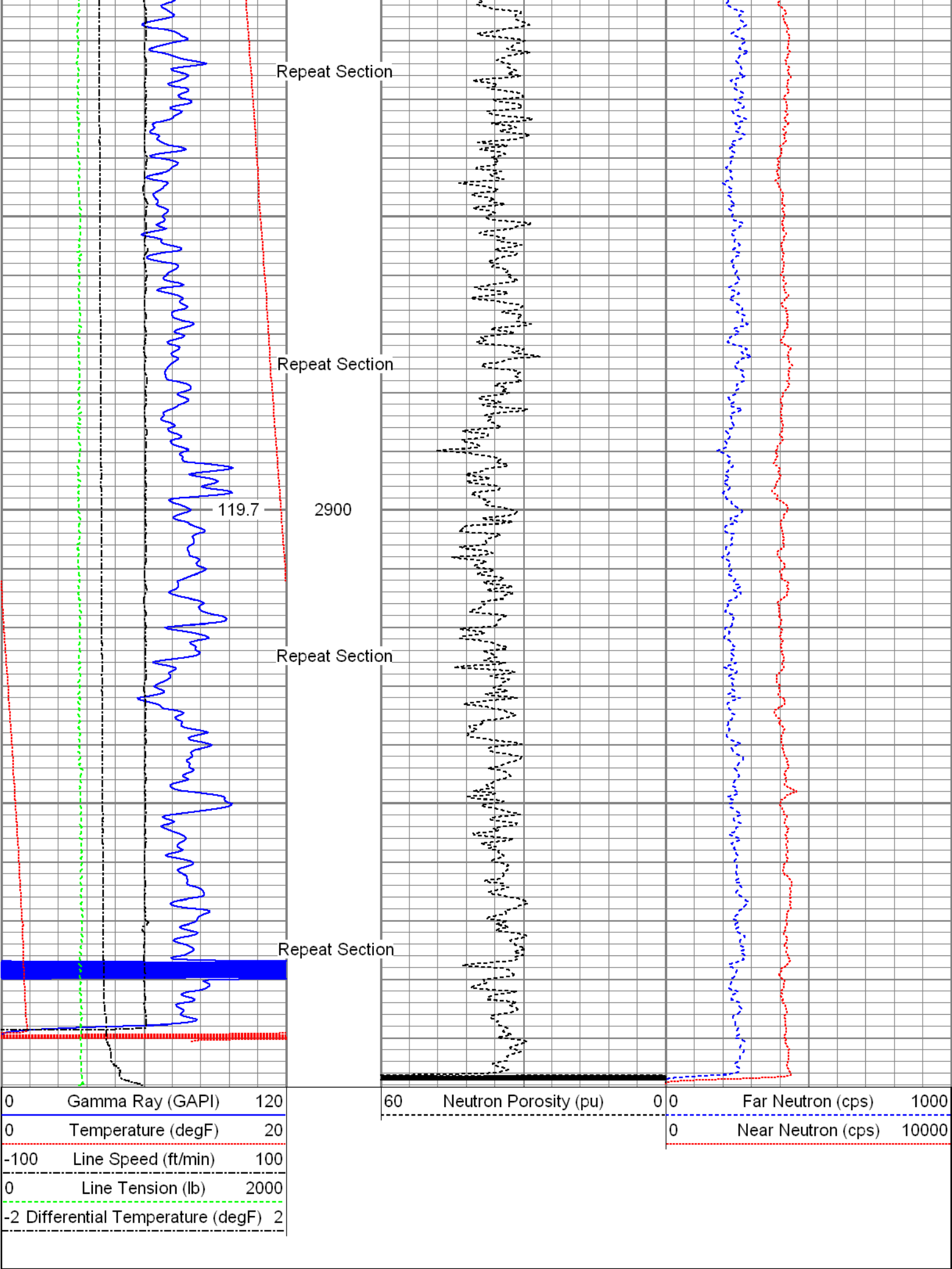



Repeat Section

116.9

2800





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	9.77		T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			7' 2" by 7" Steel Weight Bar w/ GO Connections	7.00	2.00	80.00
			UW_AGS-UW_AGS_001 (218874) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW_XTU-UW_XTU_002 (218874) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (10024770) Production Gamma Ray	1.93	1.69	9.50
			UW_PRT-UW_PRT_016 (10025097) Platinum Resistance Thermometer	1.04	1.69	5.20
			UW_CCL-UW_CCL_028 (10009470) Ultrawire 3-1/8" CCL	1.61	3.13	36.00
TEMP	8.37					
CCL	7.12					
CNLSC CNSSC	1.53					
	1.12					
	0.00					
TSTAMP	0.00					
			CNL-007 (1005) Compensated Neutron Logging Tool	6.61	1.69	30.00

Dataset: 0512341330_Anadarko_Joker 26N2-9HZ_09-30-15_CNL.db: field/well/run1/pass7.2

Total Length: 21.01 ft

Total Weight: 172.20 lb

O.D. 3.13 in

Calibration Report

Database File: 0512341330_Anadarko_Joker 26N2-9HZ_09-30-15_CNL.db
 Dataset Pathname: pass7.2
 Dataset Creation: Wed Sep 30 16:08:39 2015

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

Ratio Measured Reference
 0.8150 Sleeve: 1.0000
 CNRAT Gain K 1.0271

Before Survey

Detector Readings

Short Space cps
 Long Space cps

Ratio Measured Reference

After Survey

Detector Readings

Short Space cps
 Long Space cps

Ratio Measured Reference

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: 10024770
 Tool Model: UW_PRT_016

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	Joker 26N2-9HZ
Field	Wattenberg
County	Weld
State	Colorado