



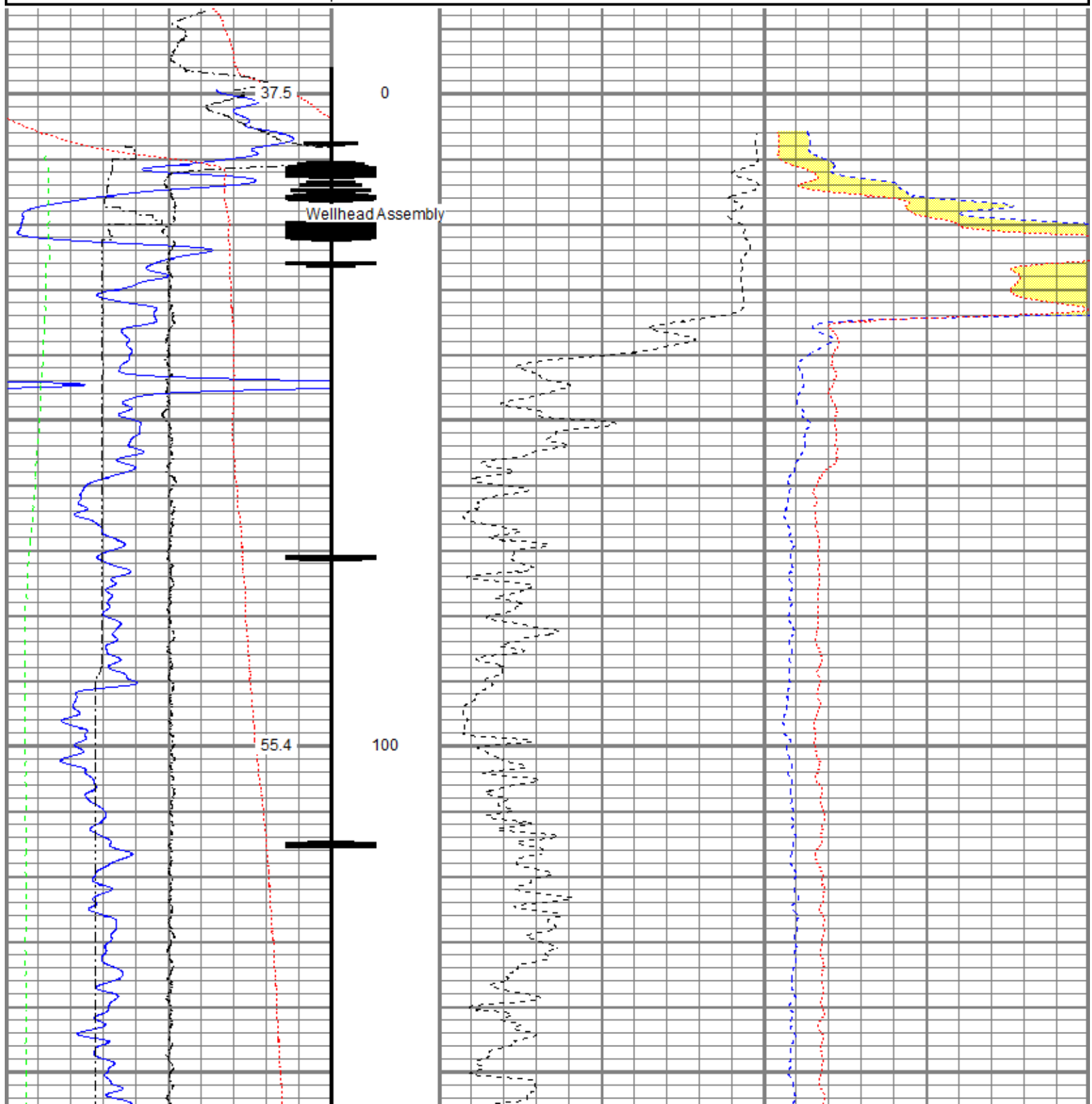
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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
<p>Log ran as per customer request Depth referenced to Casing Tally reported Marker Joint at 7368 FT Adjusted -2 FT to correlate with Marker Joint Gauge Ring/Junk Basket ran to 8218 FT with no debris Log ran from just above RBP to Surface Recorded with 2800 PSI Surface Induced Pressure Logging tools were covered in a black liquid upon completion of operations</p> <p>Thank you for choosing Reliance Oilfield Services, LLC!!</p>

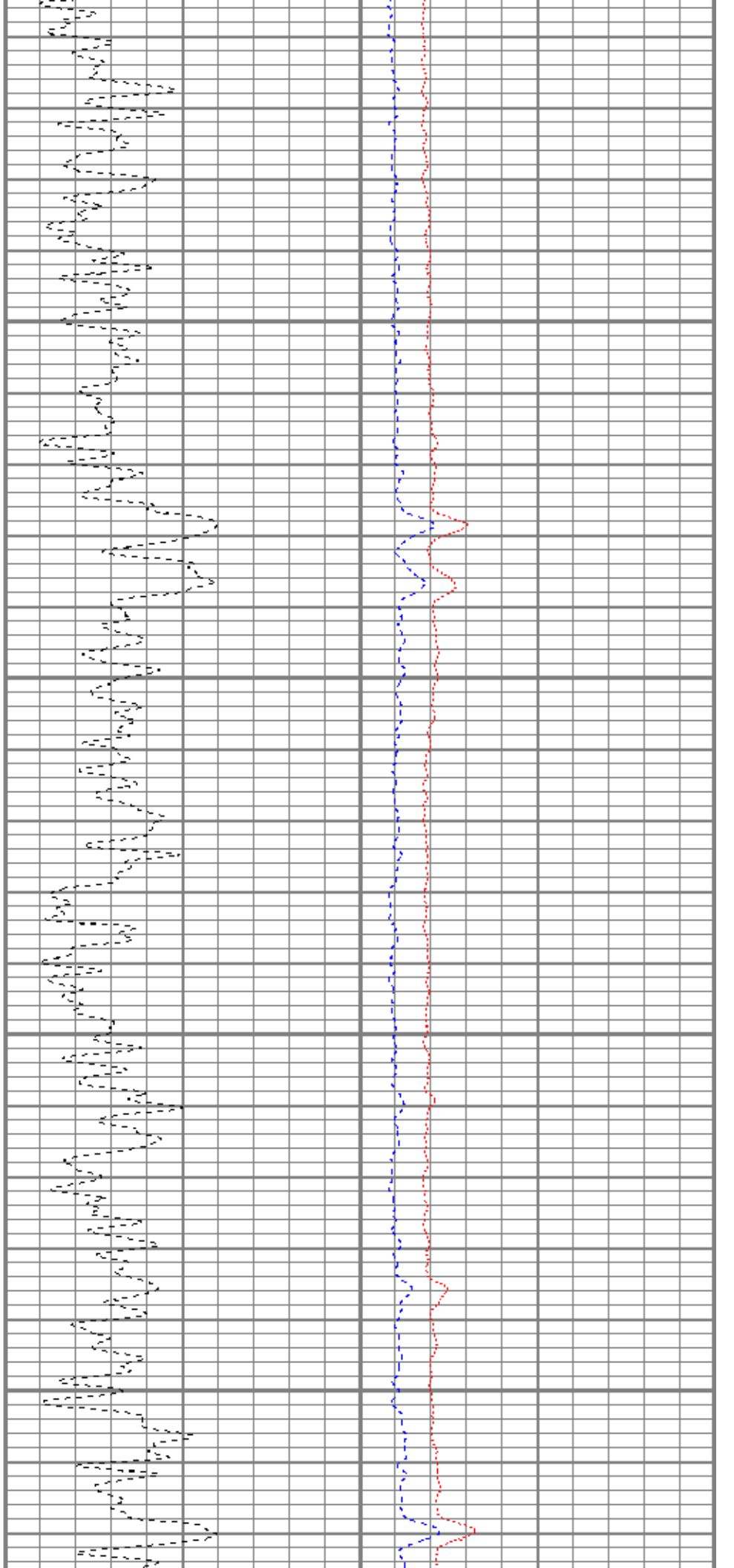
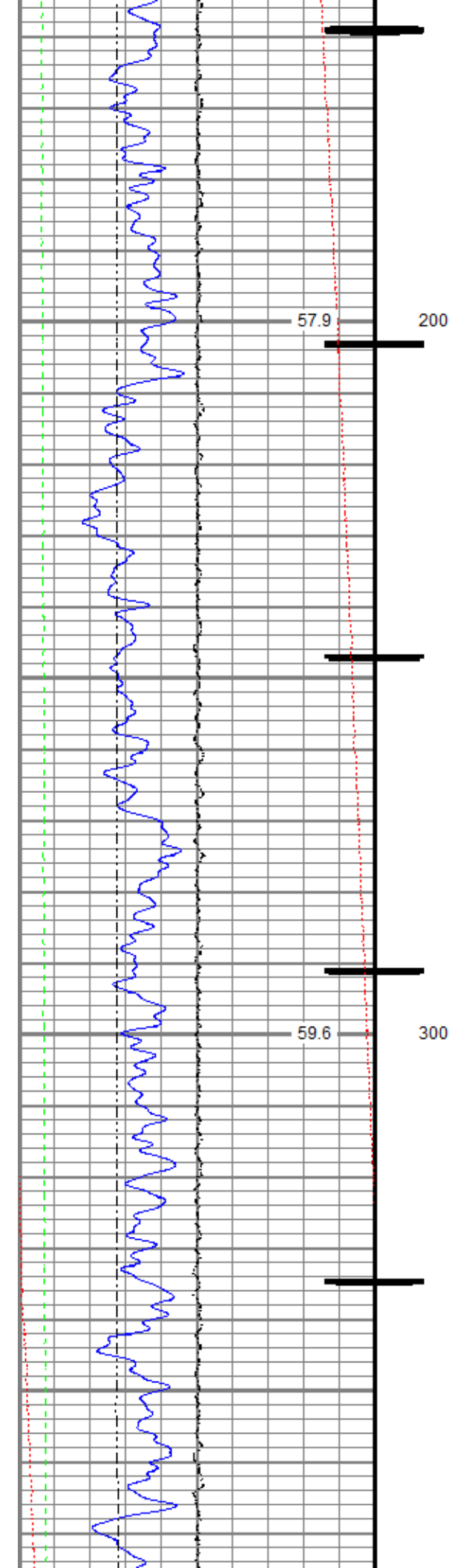


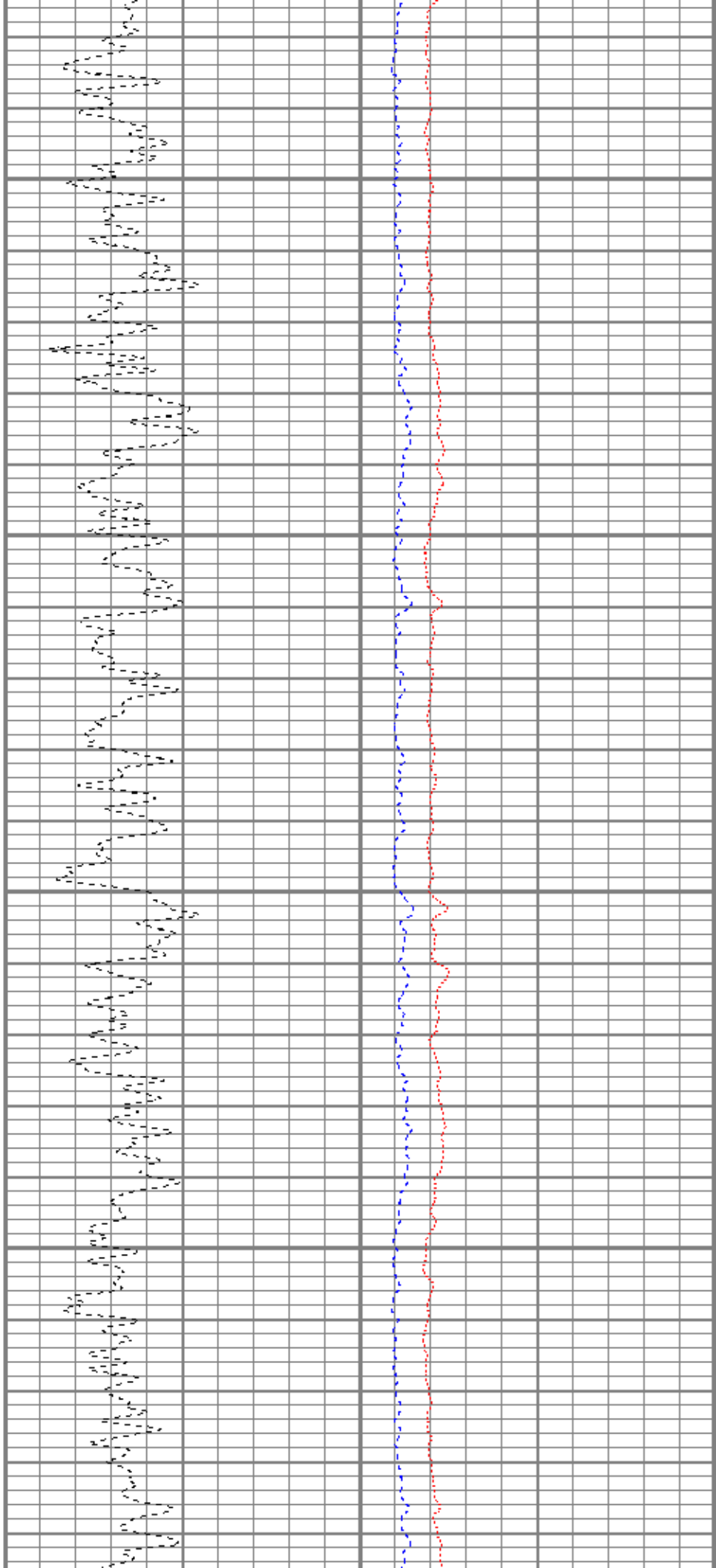
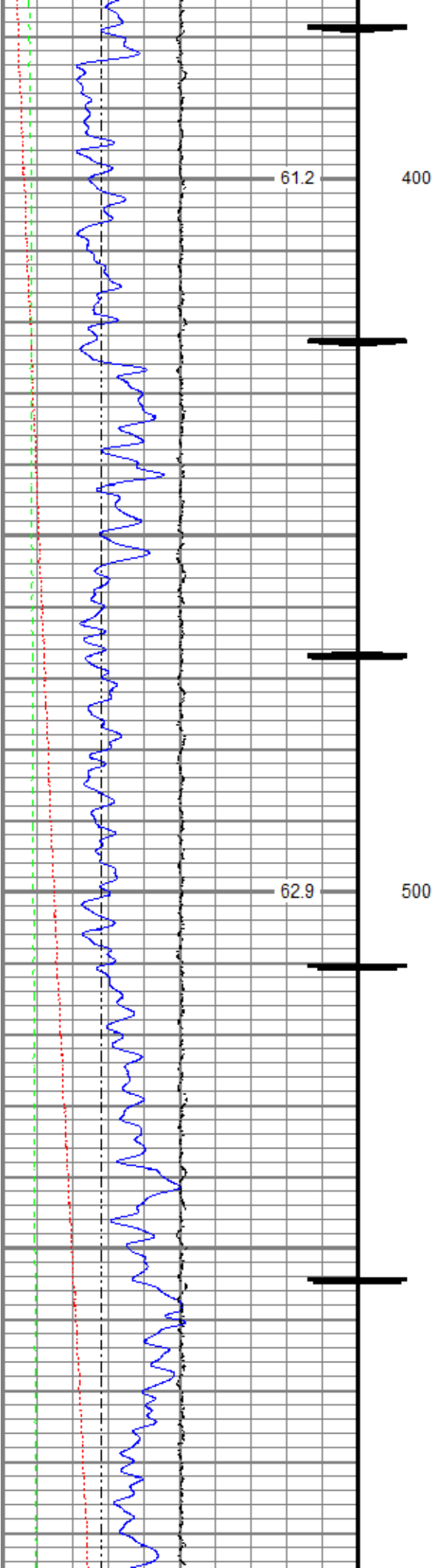
Recorded With 2800 PSI Surface Induced Pressure

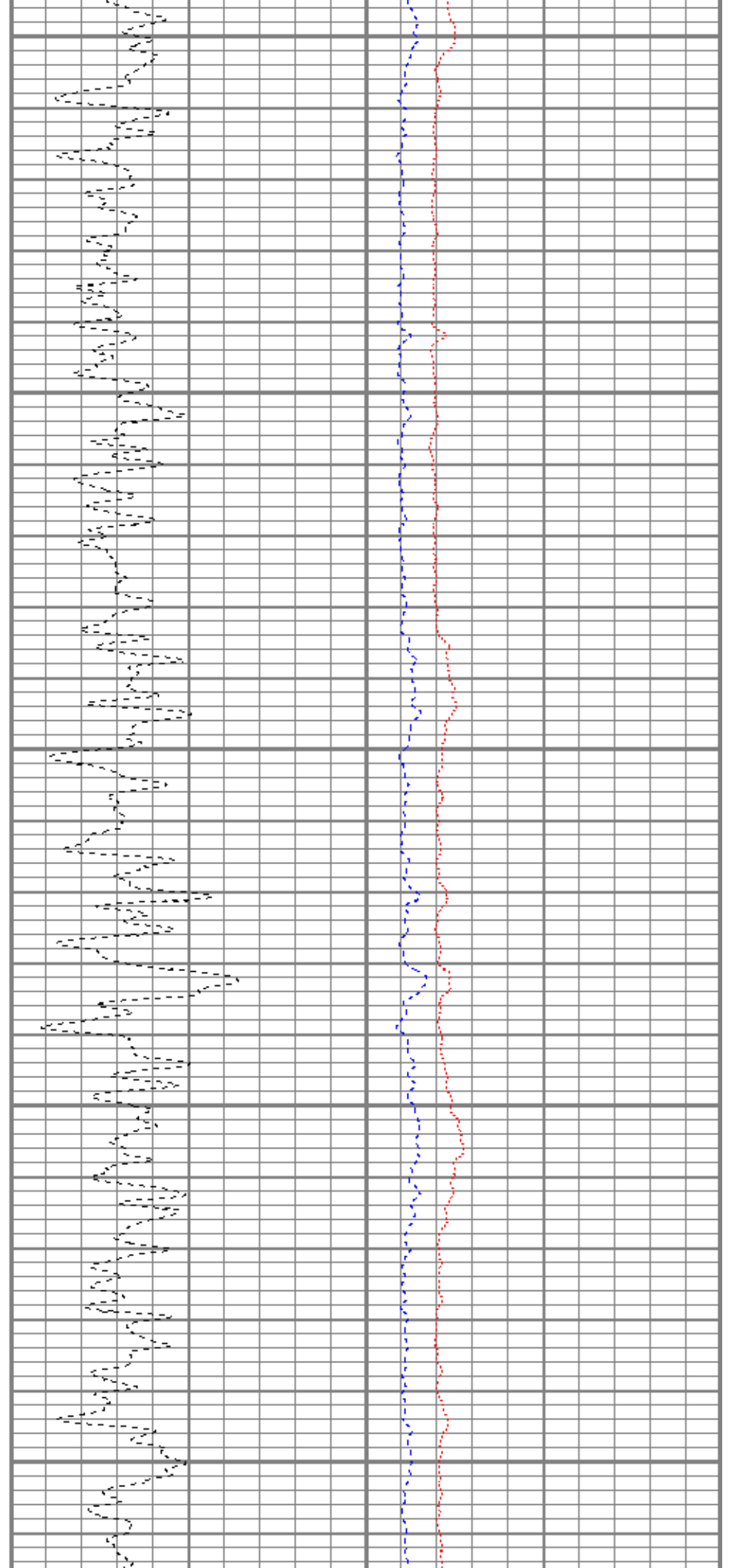
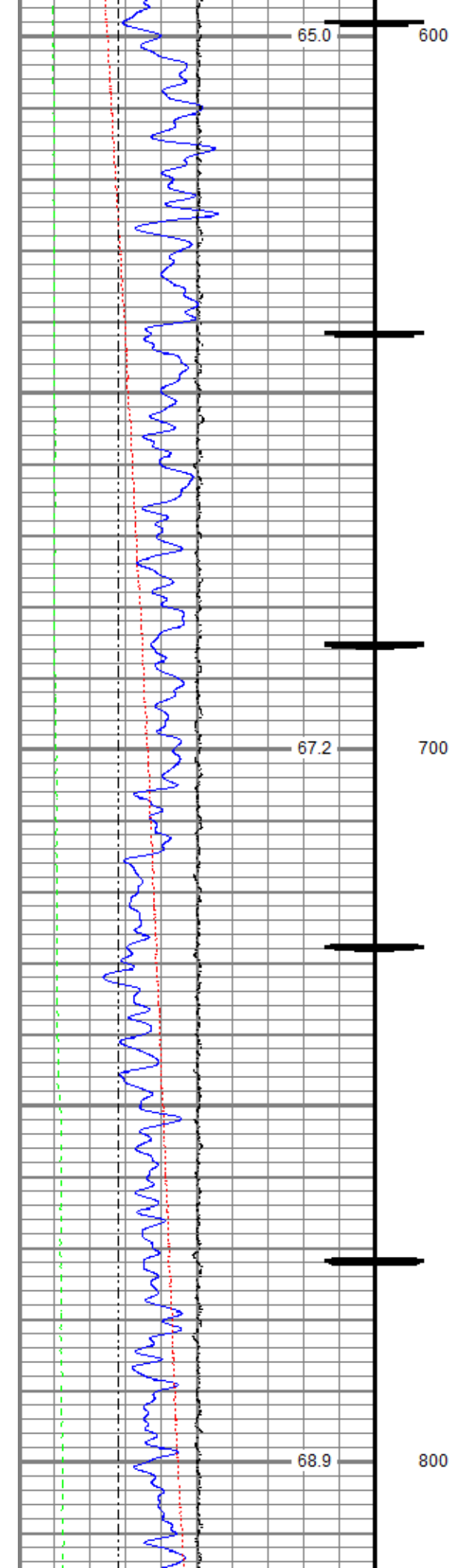
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Dataset Pathname	pass2.2
Presentation Format	ros_cnl_probe
Dataset Creation	Mon Feb 19 13:50:18 2018
Charted by	Depth in Feet scaled 1:240

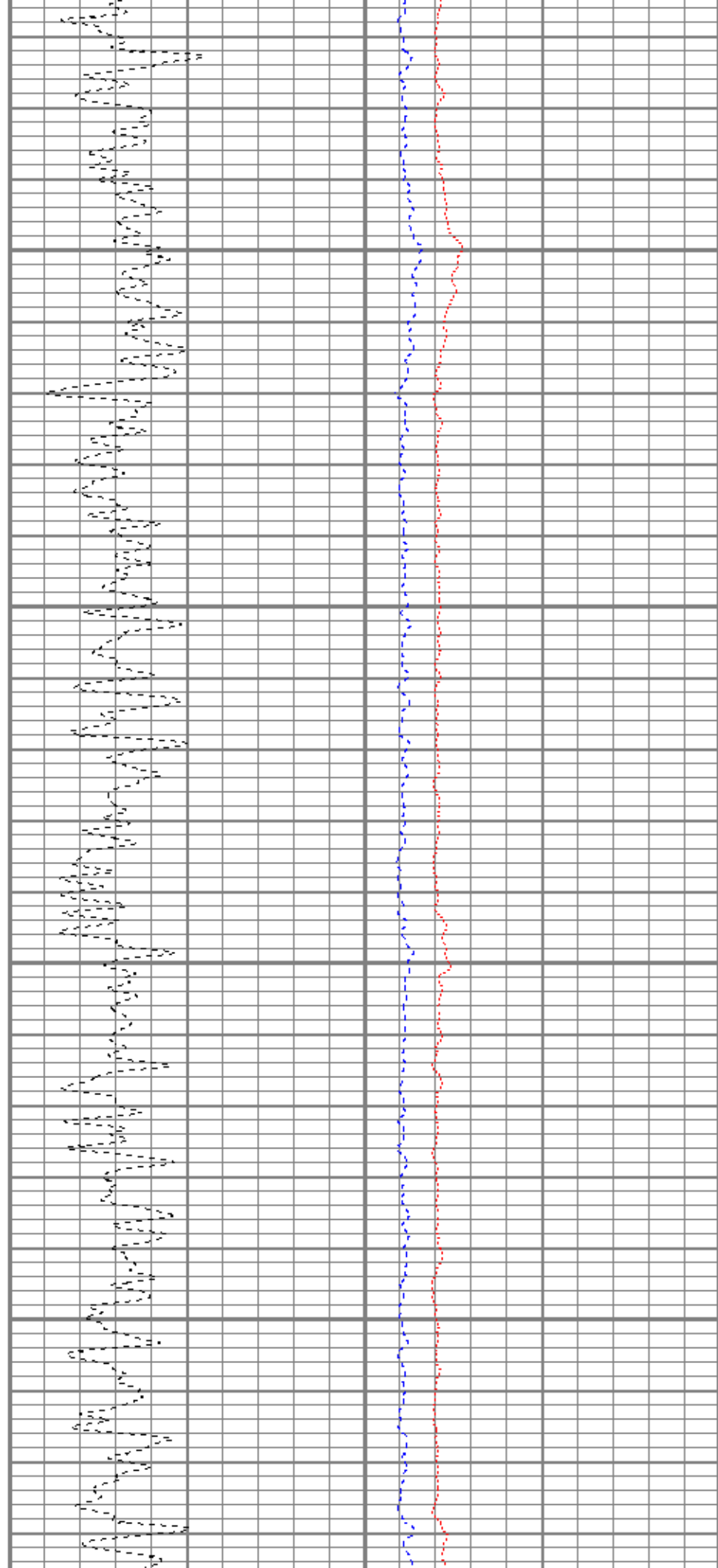
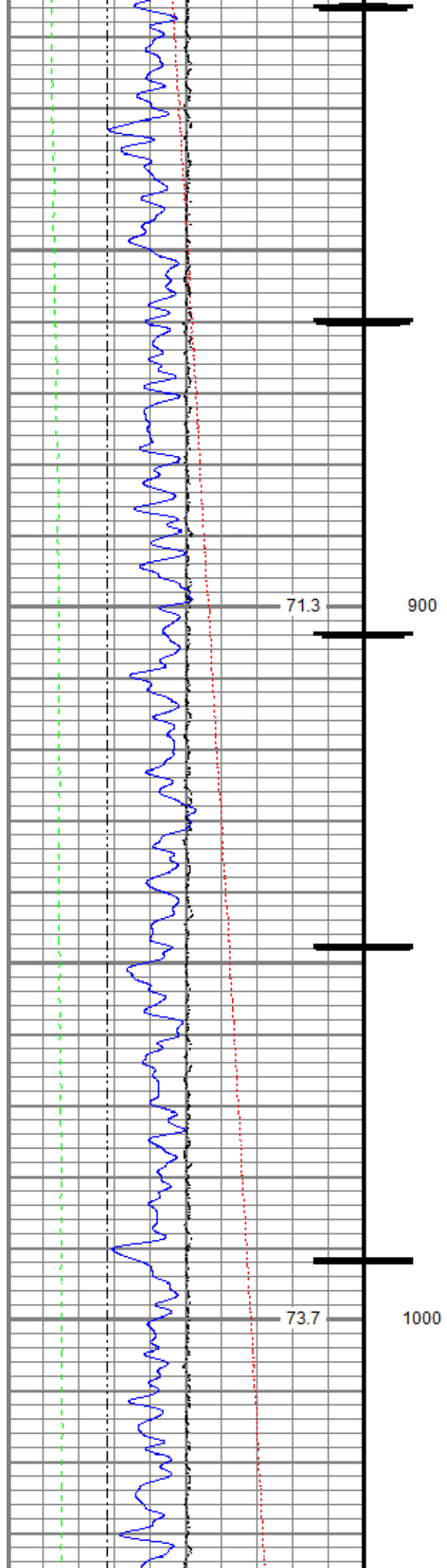
0	Gamma Ray (GAPI)	120	60	Neutron Porosity (pu)	0	0	Far Neutron (cps)	1000
Casing Collar Locator						0	Near Neutron (cps)	5000
0	Temperature (degF)	20						
-100	Line Speed (ft/min)	100						
0	Line Tension (lb)	2000						
-2	Differential Temperature (degF)	2						

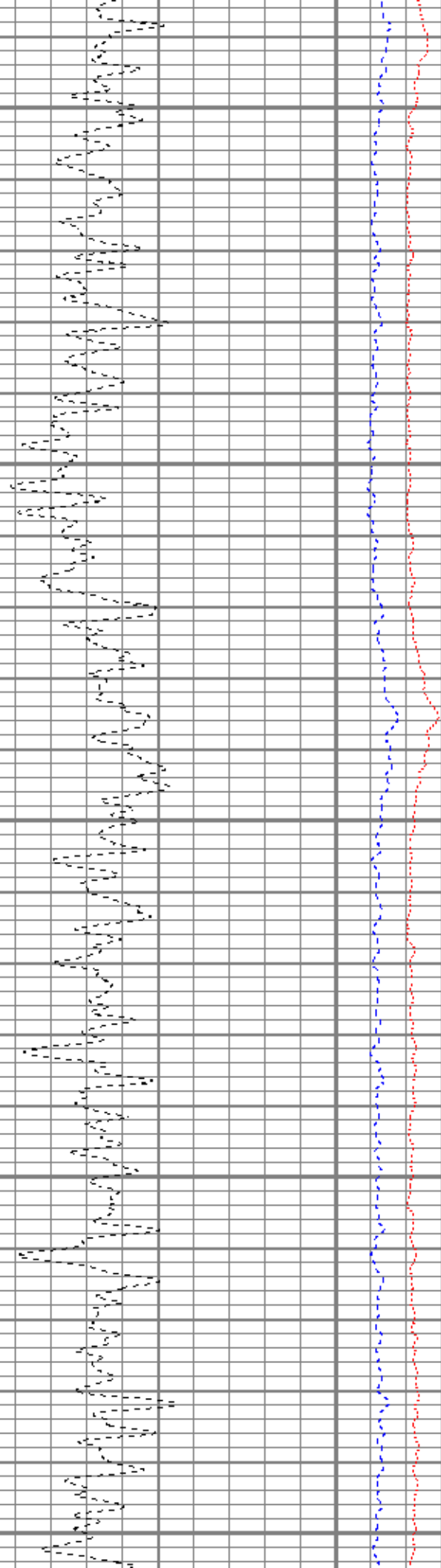
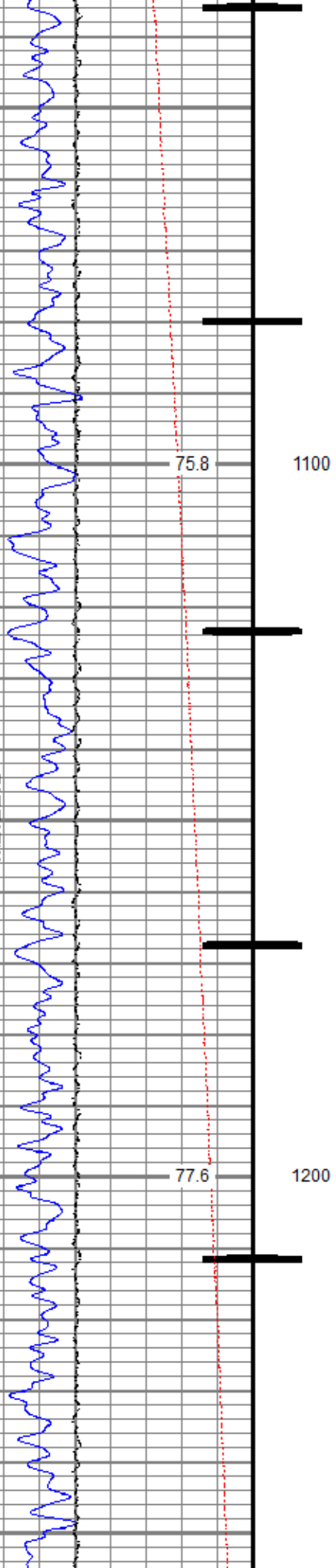


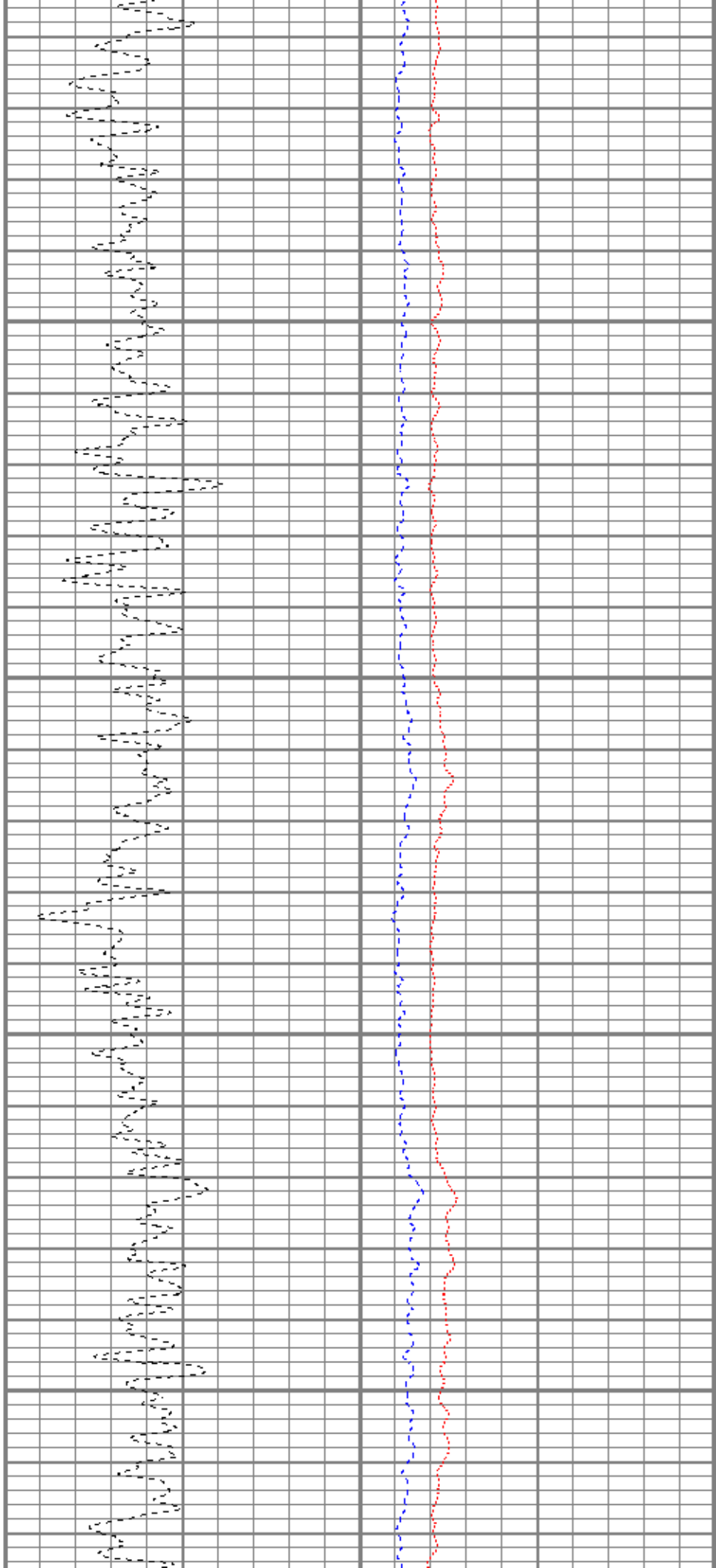
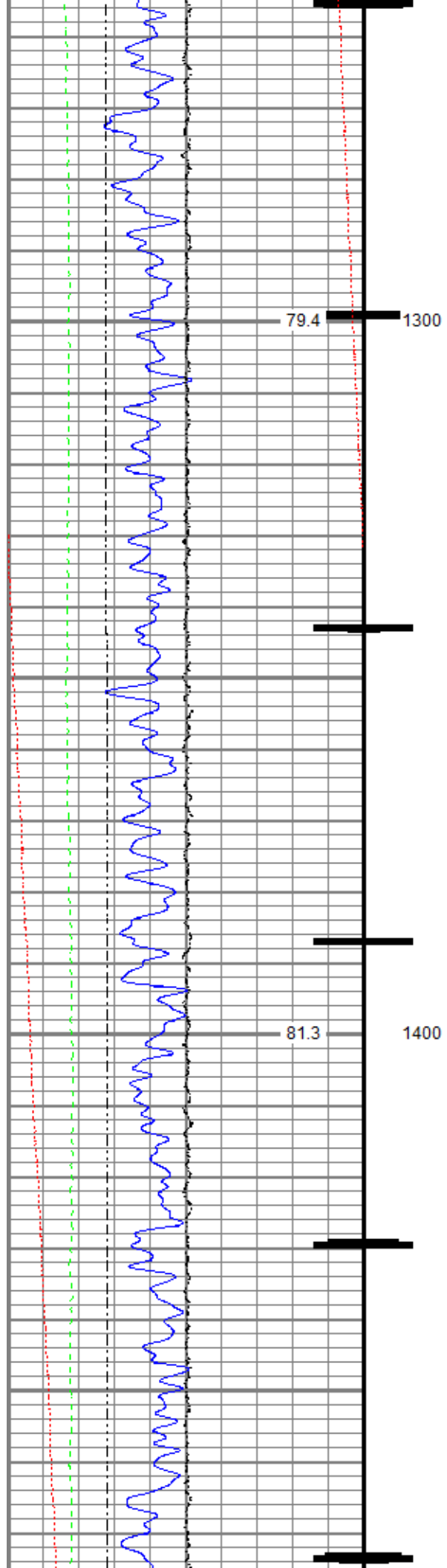


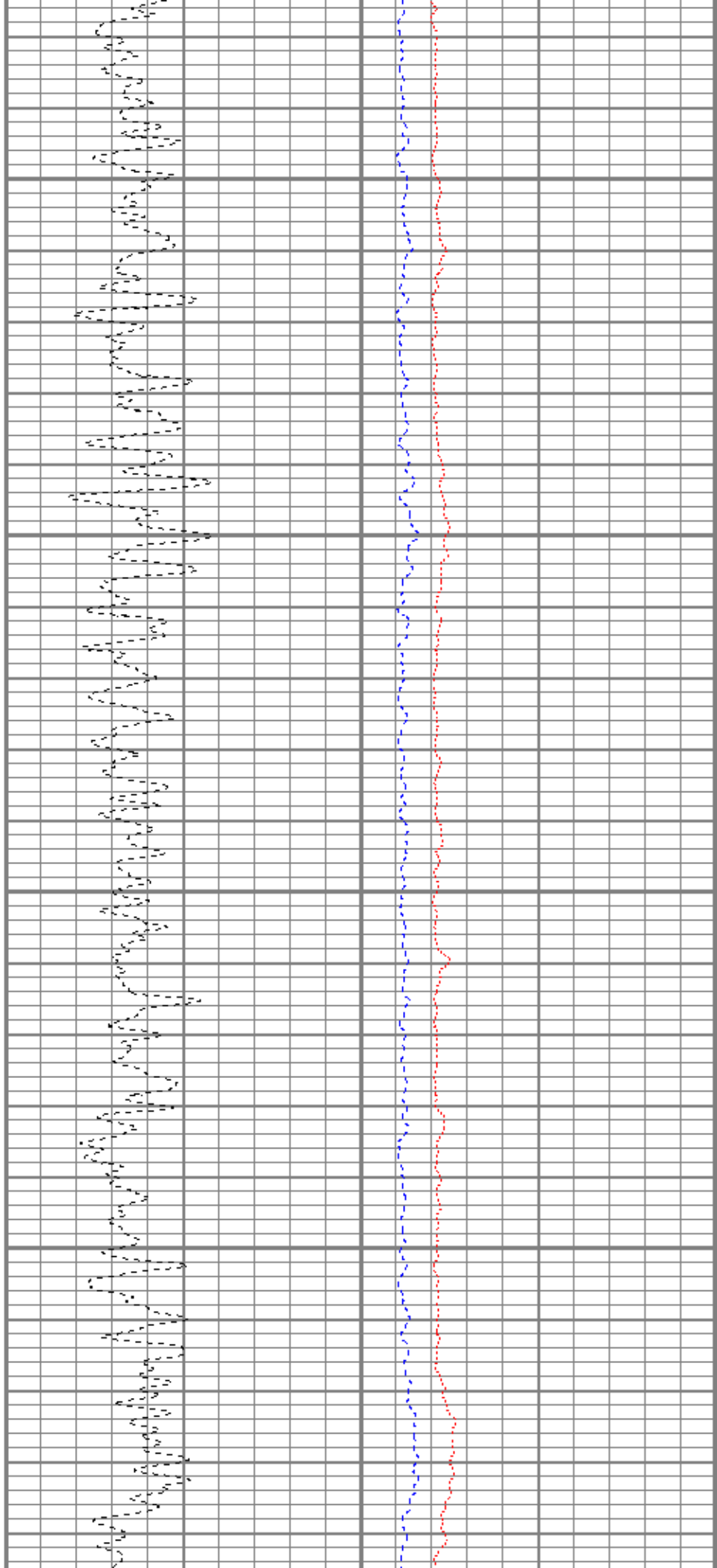
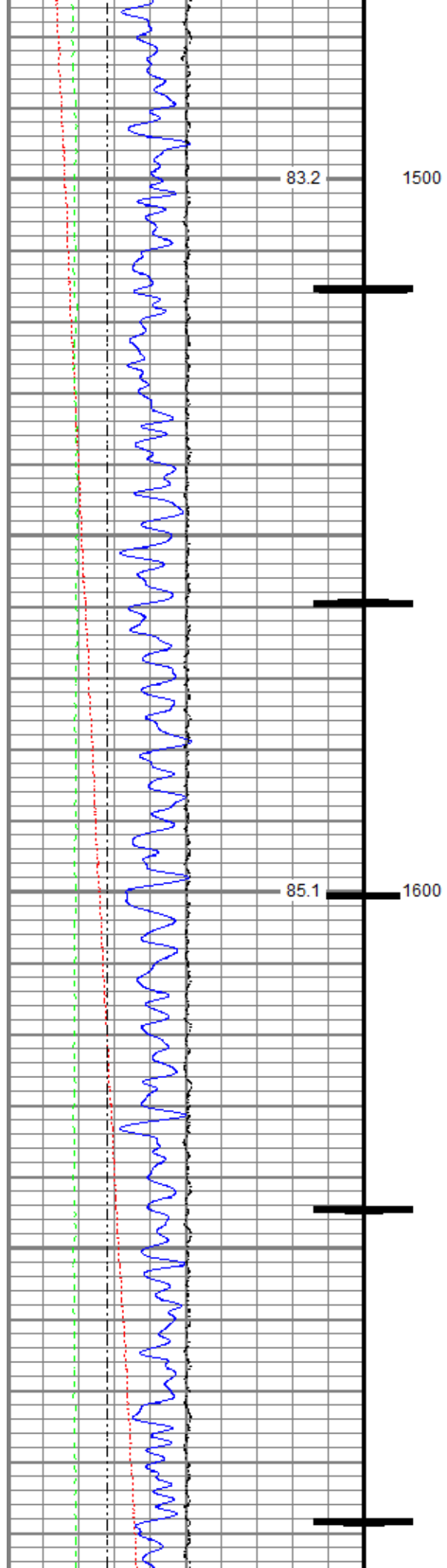


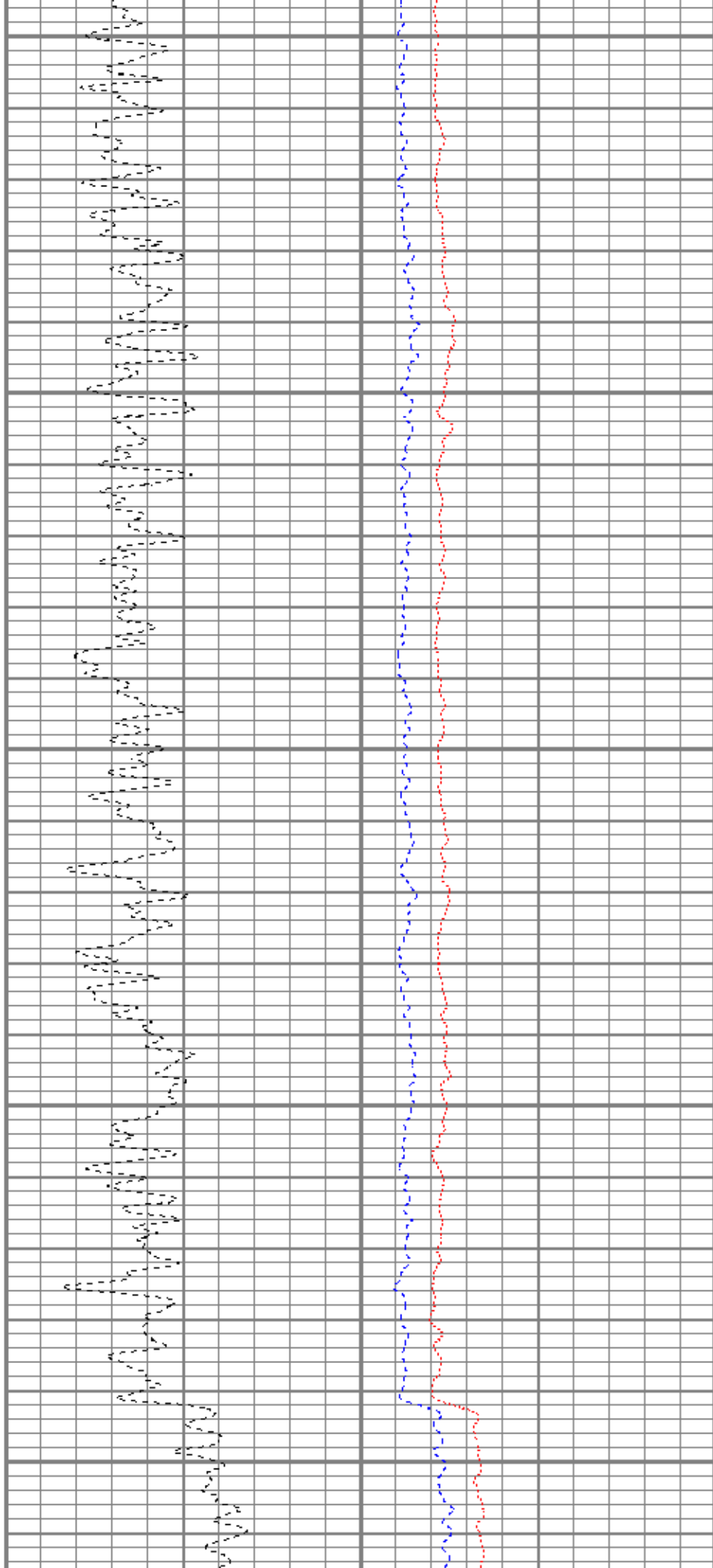
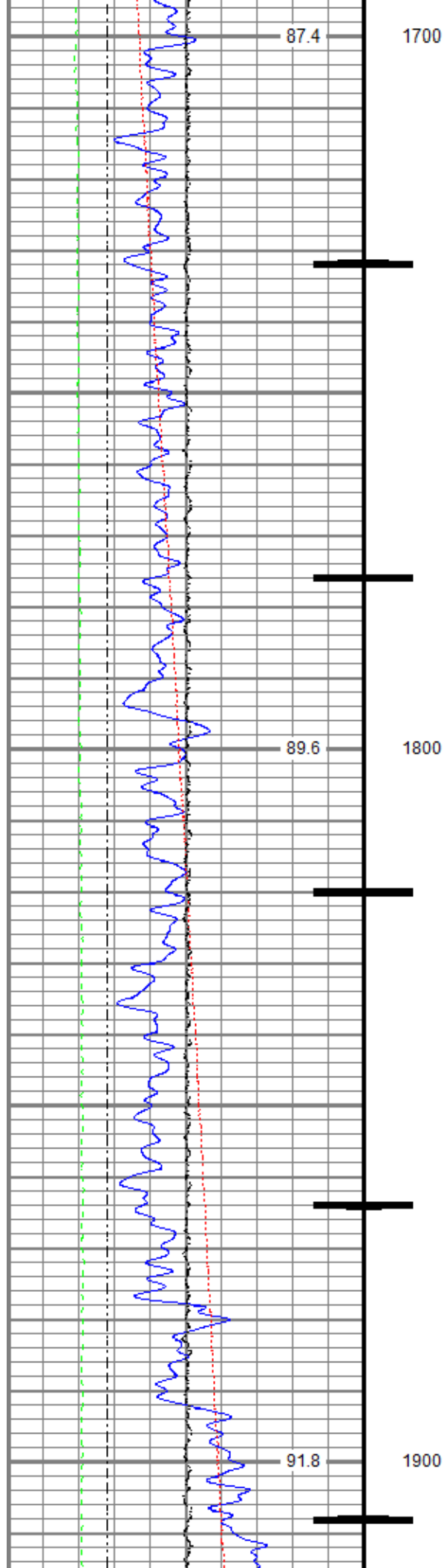


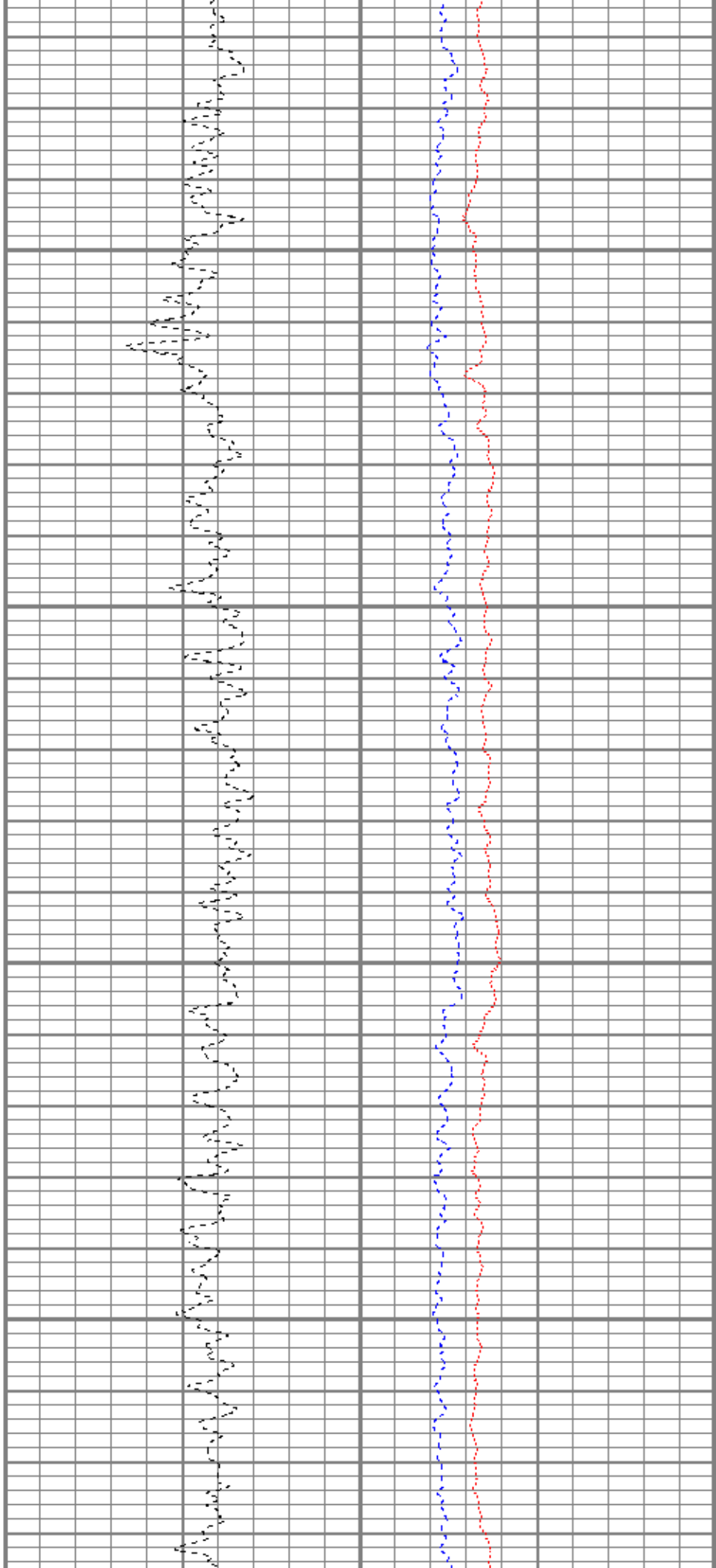
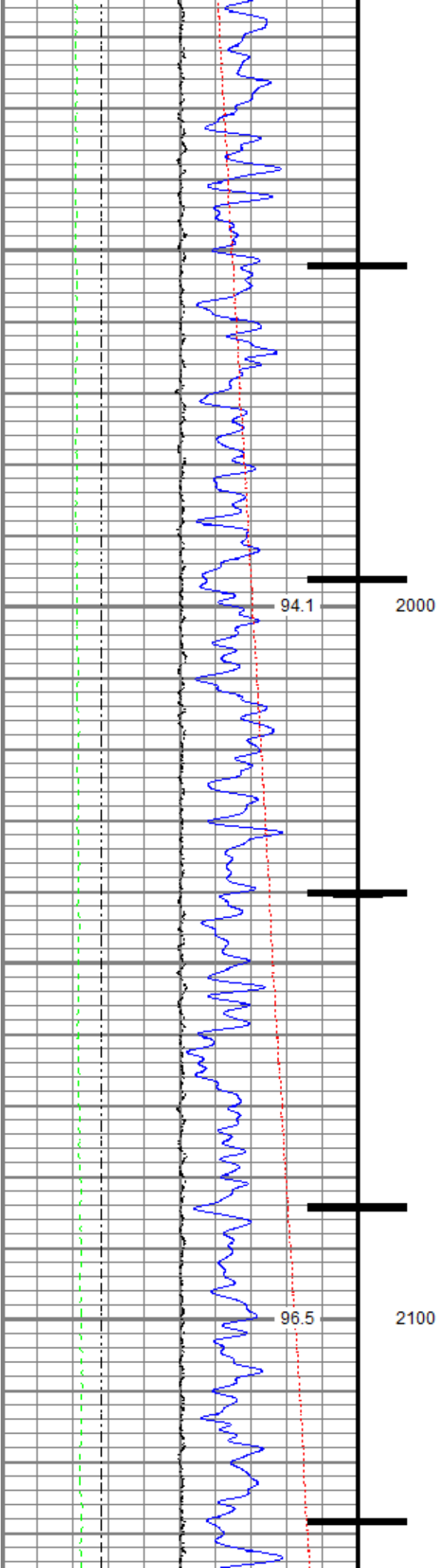


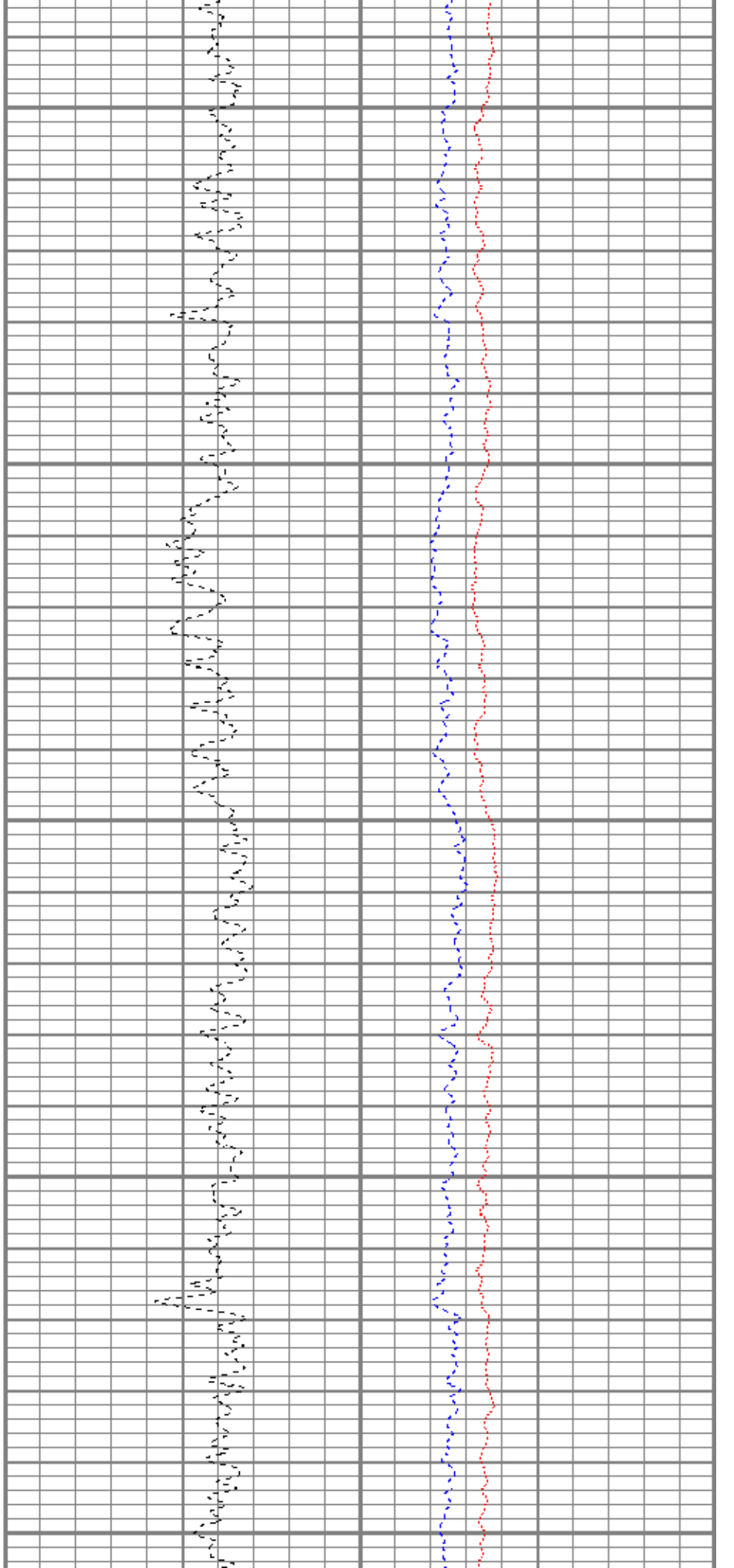
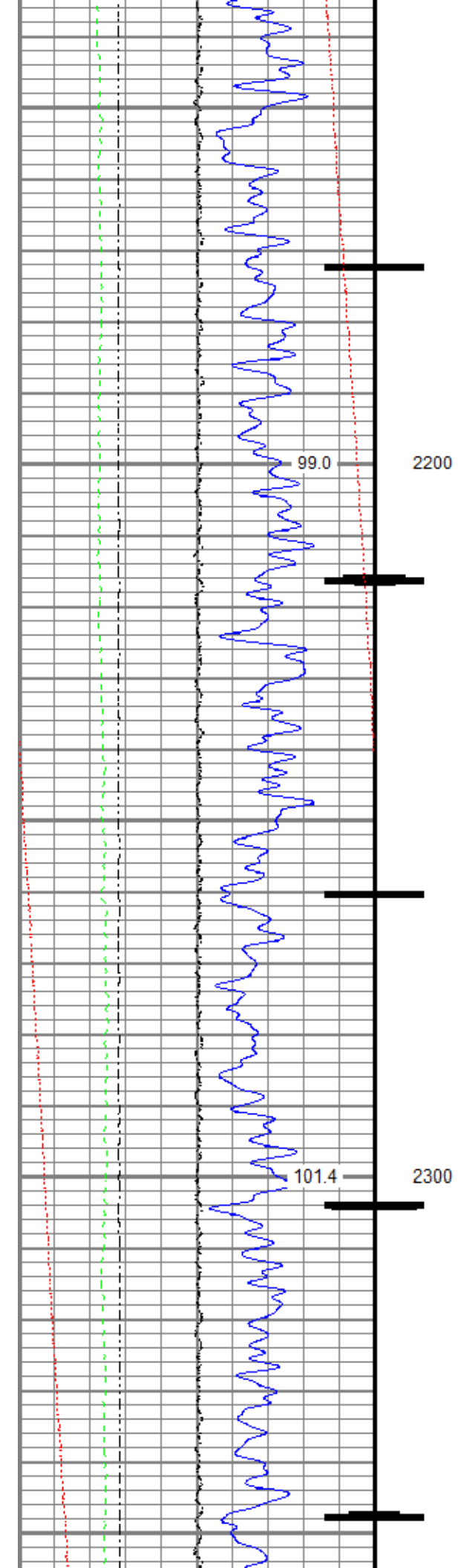


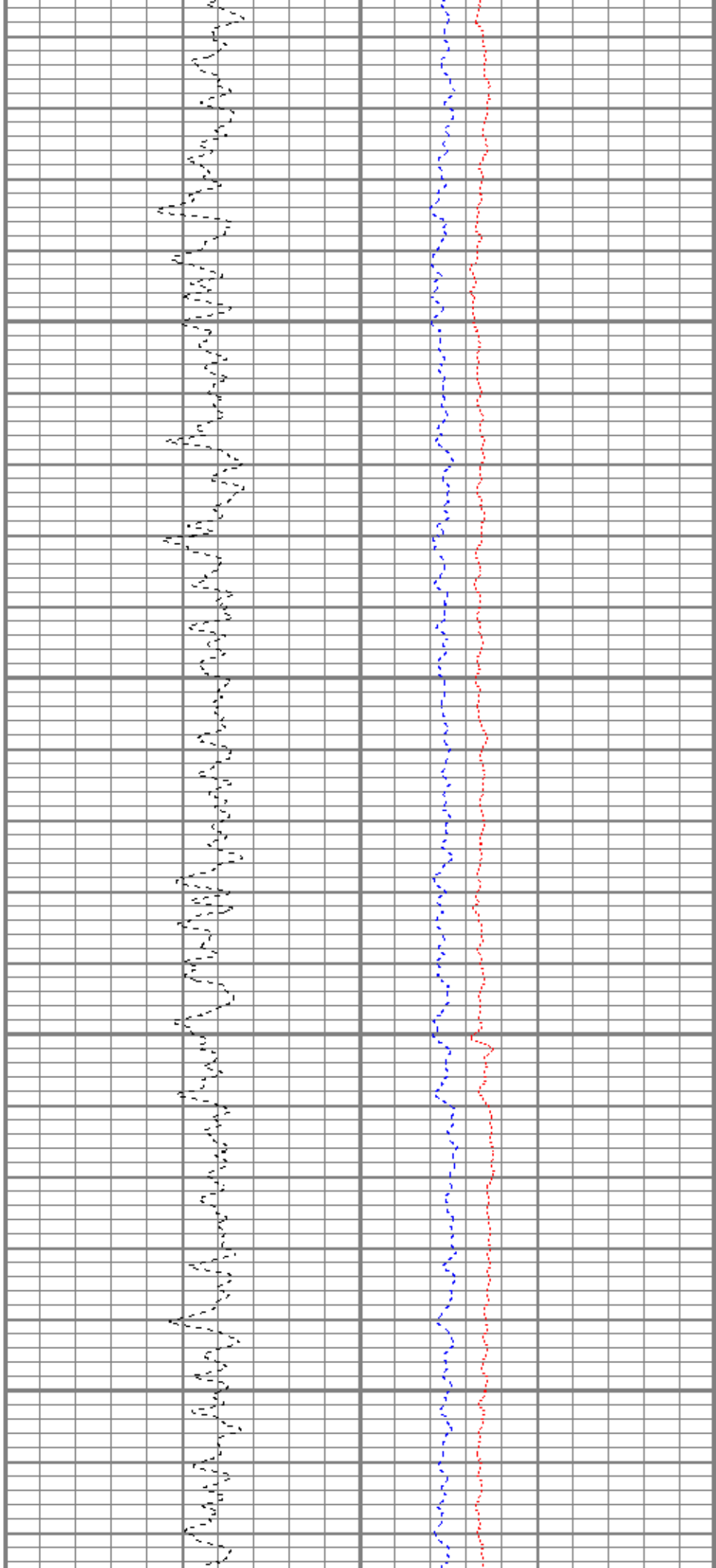
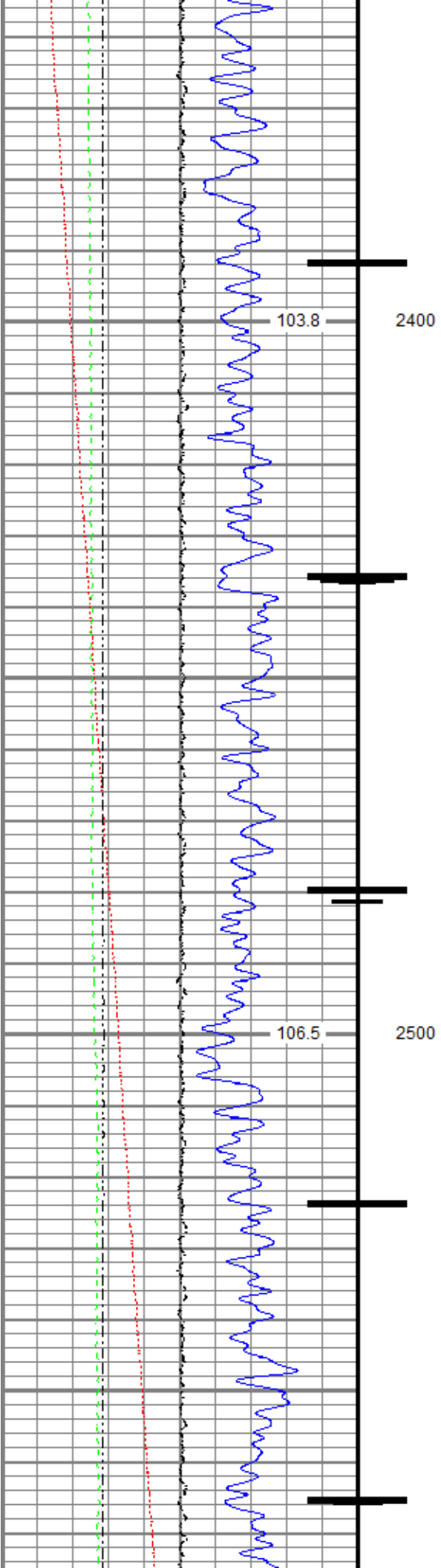


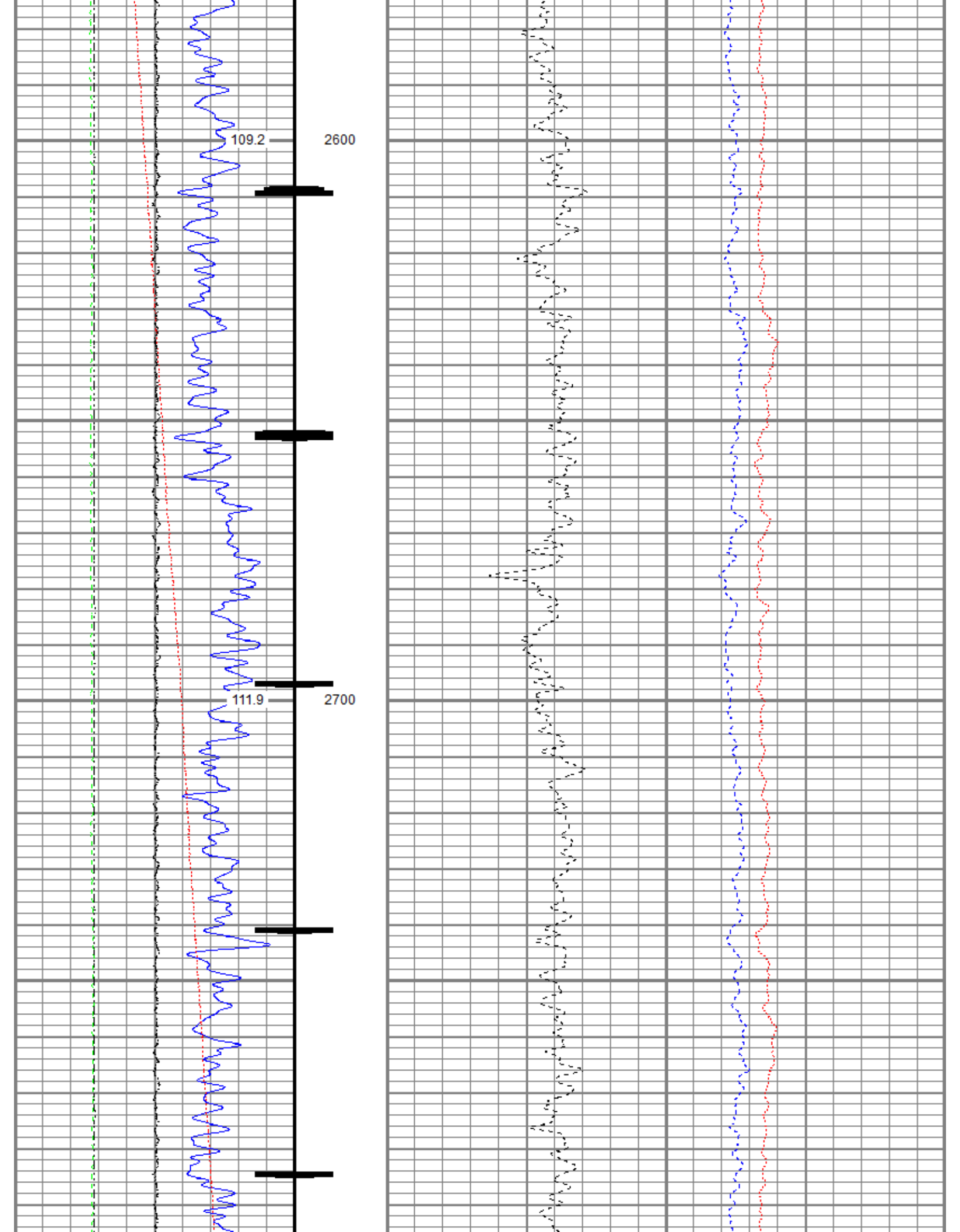


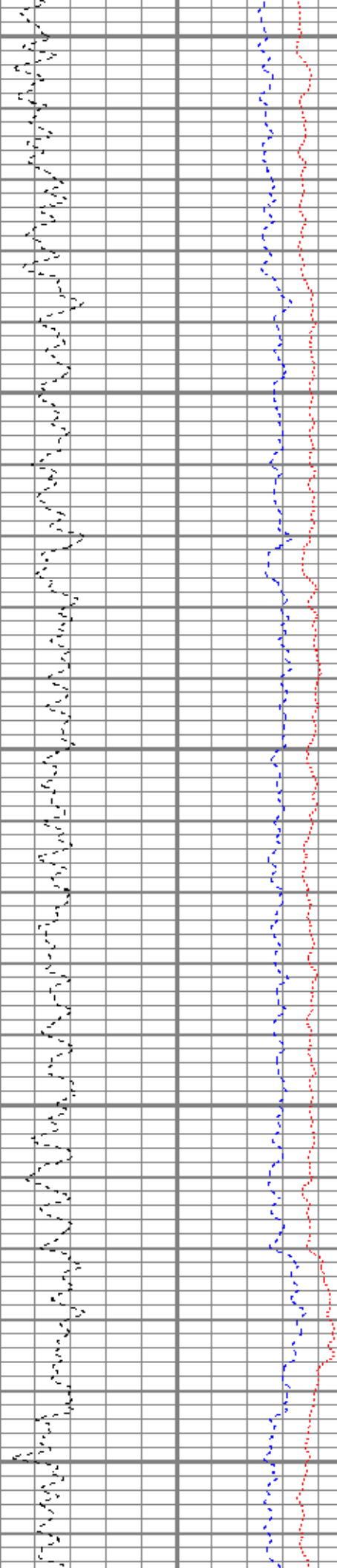
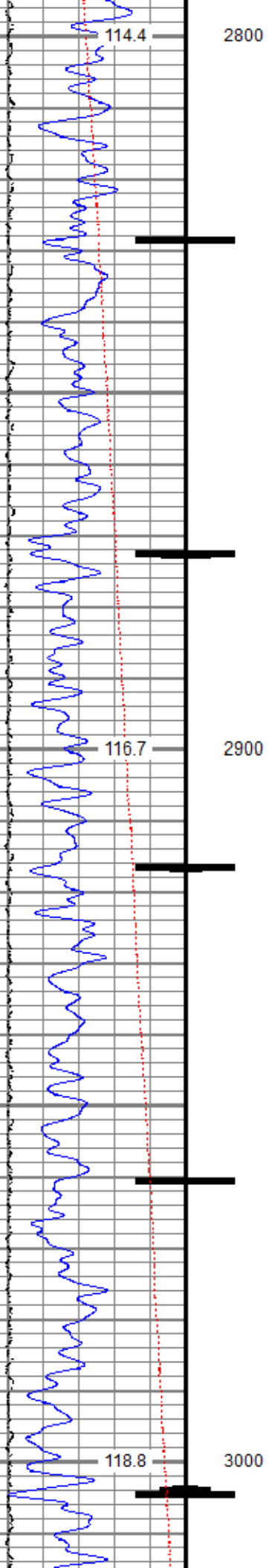


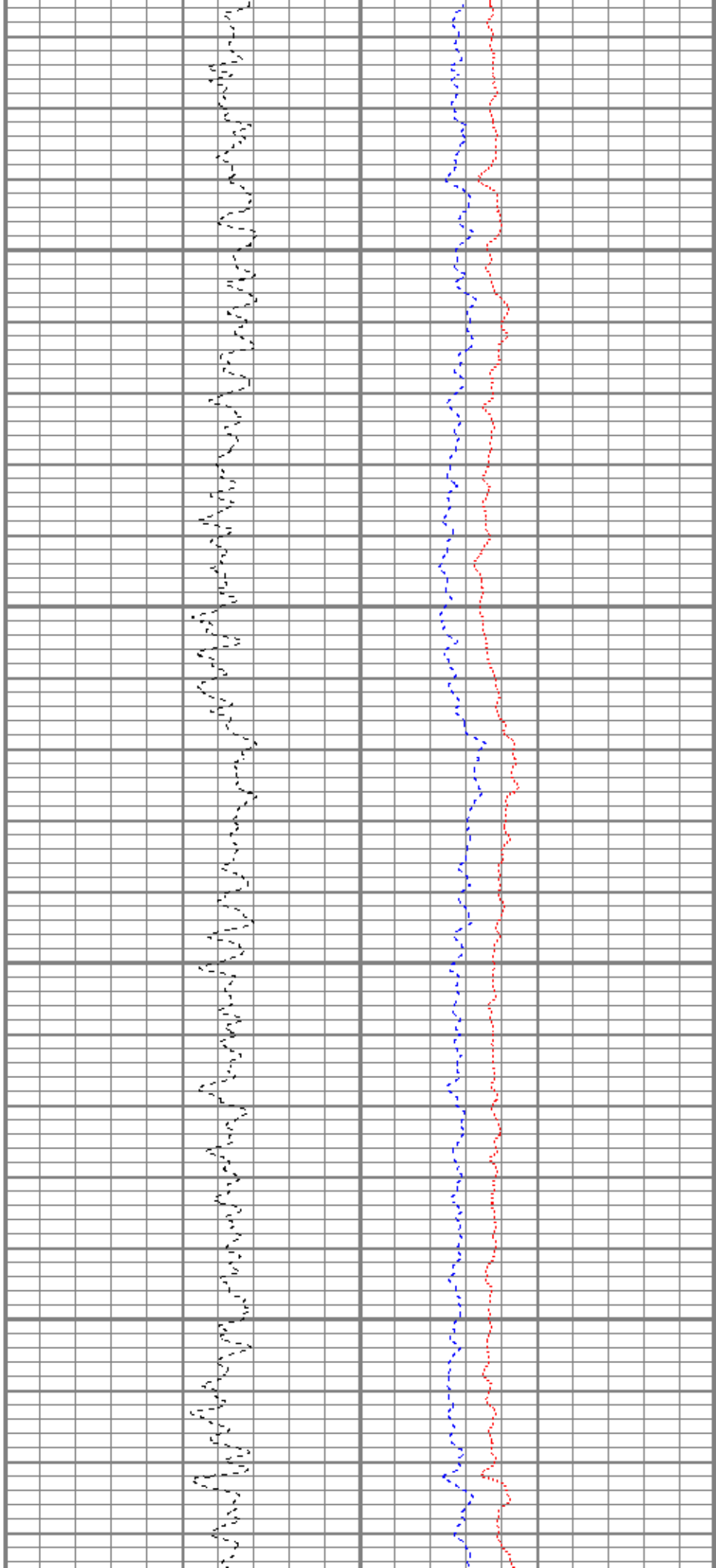
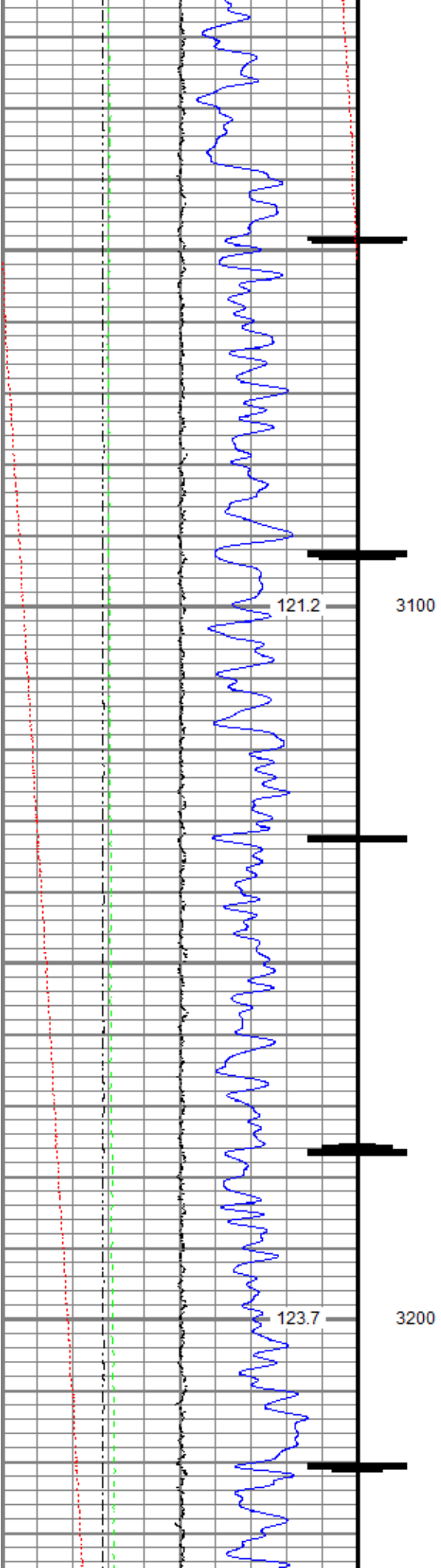


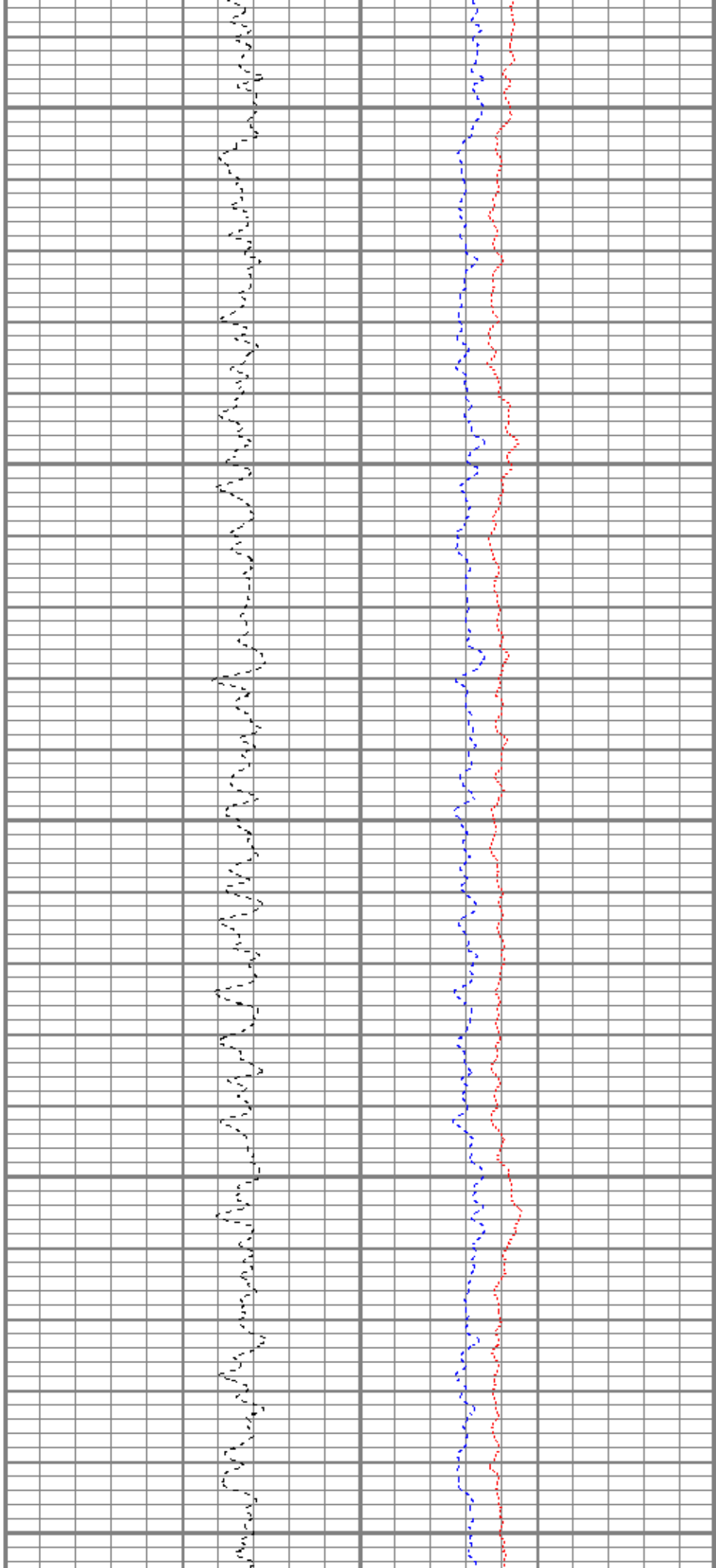
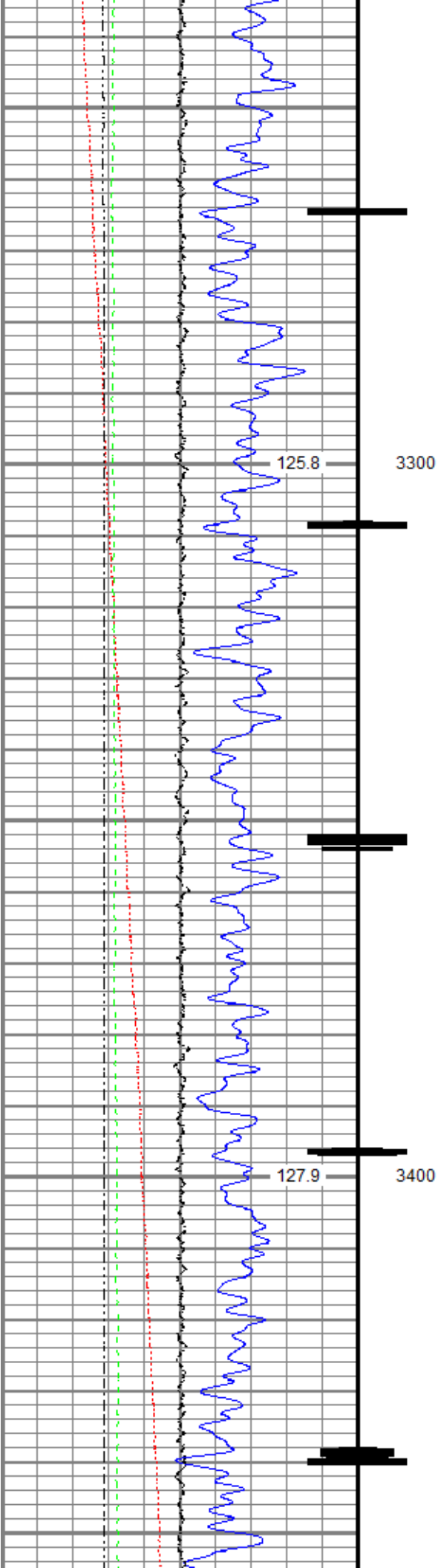


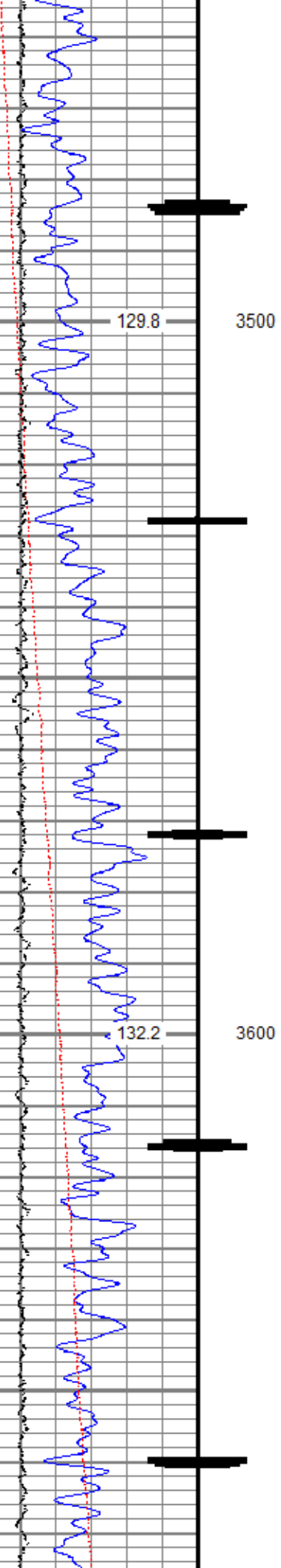


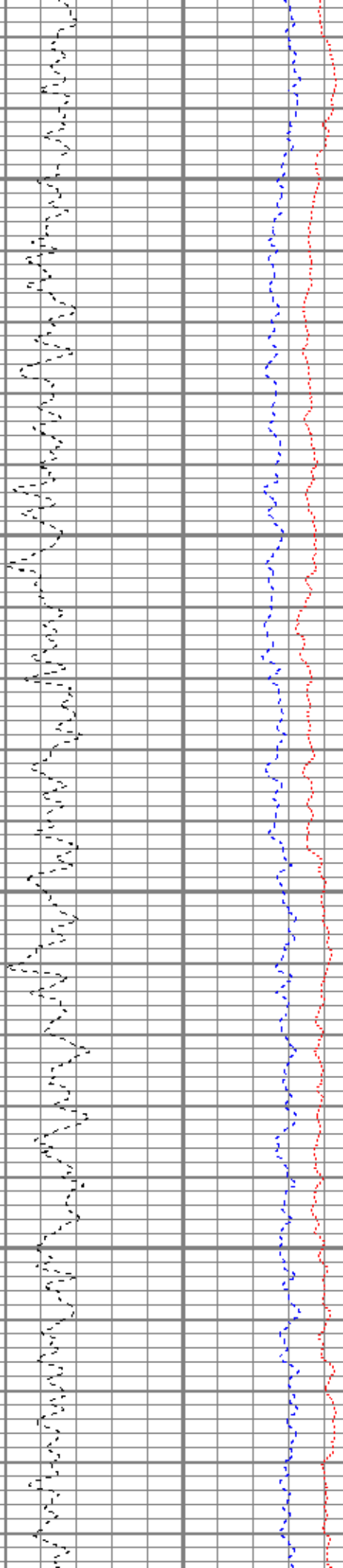
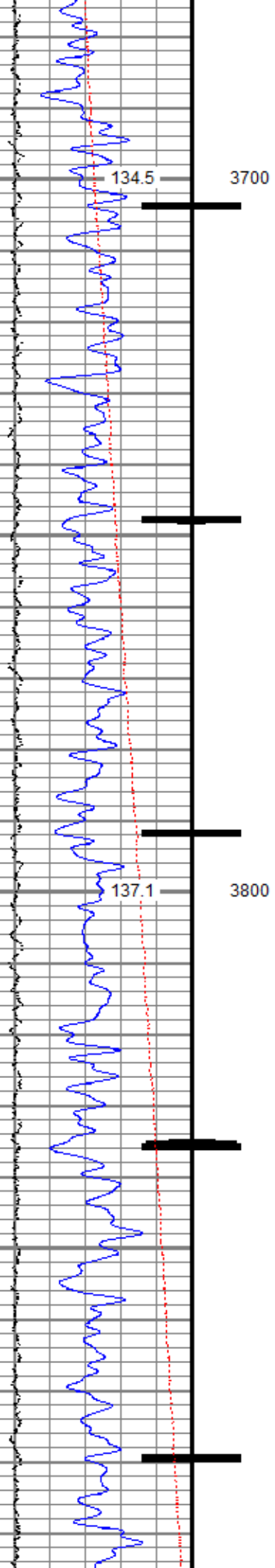


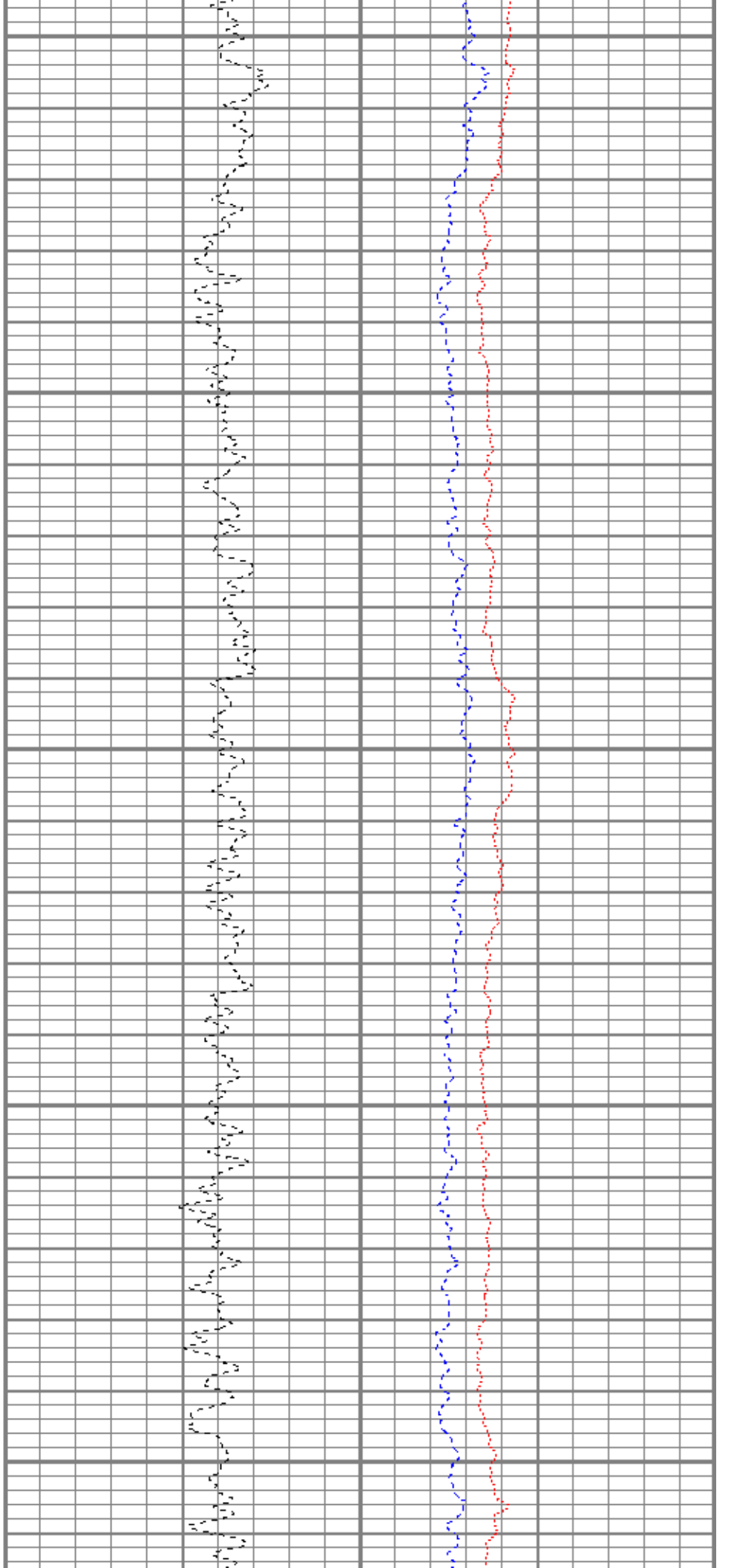
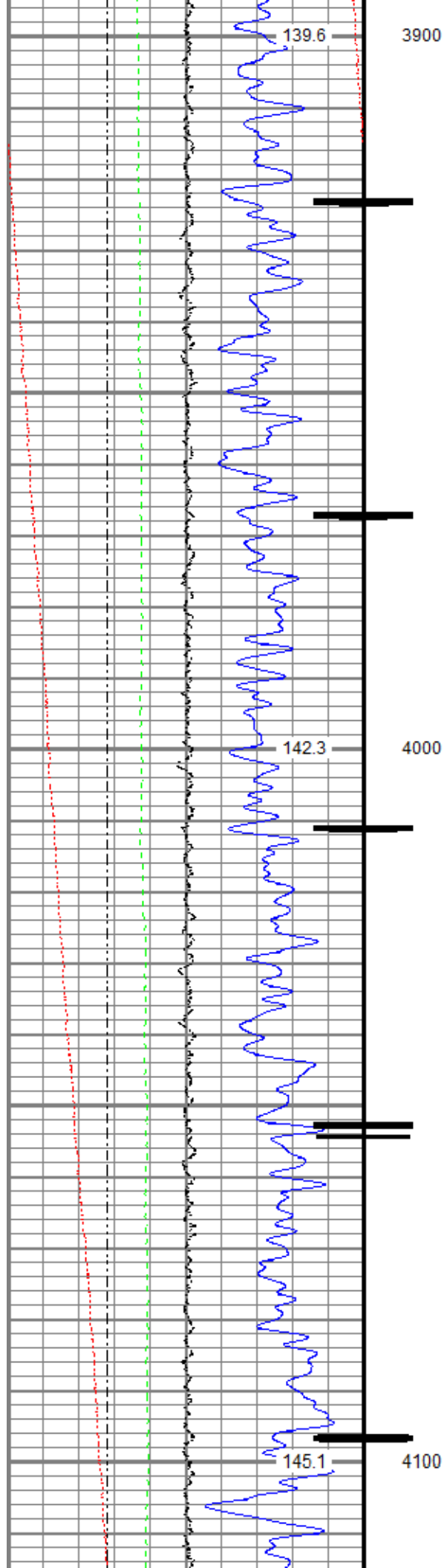


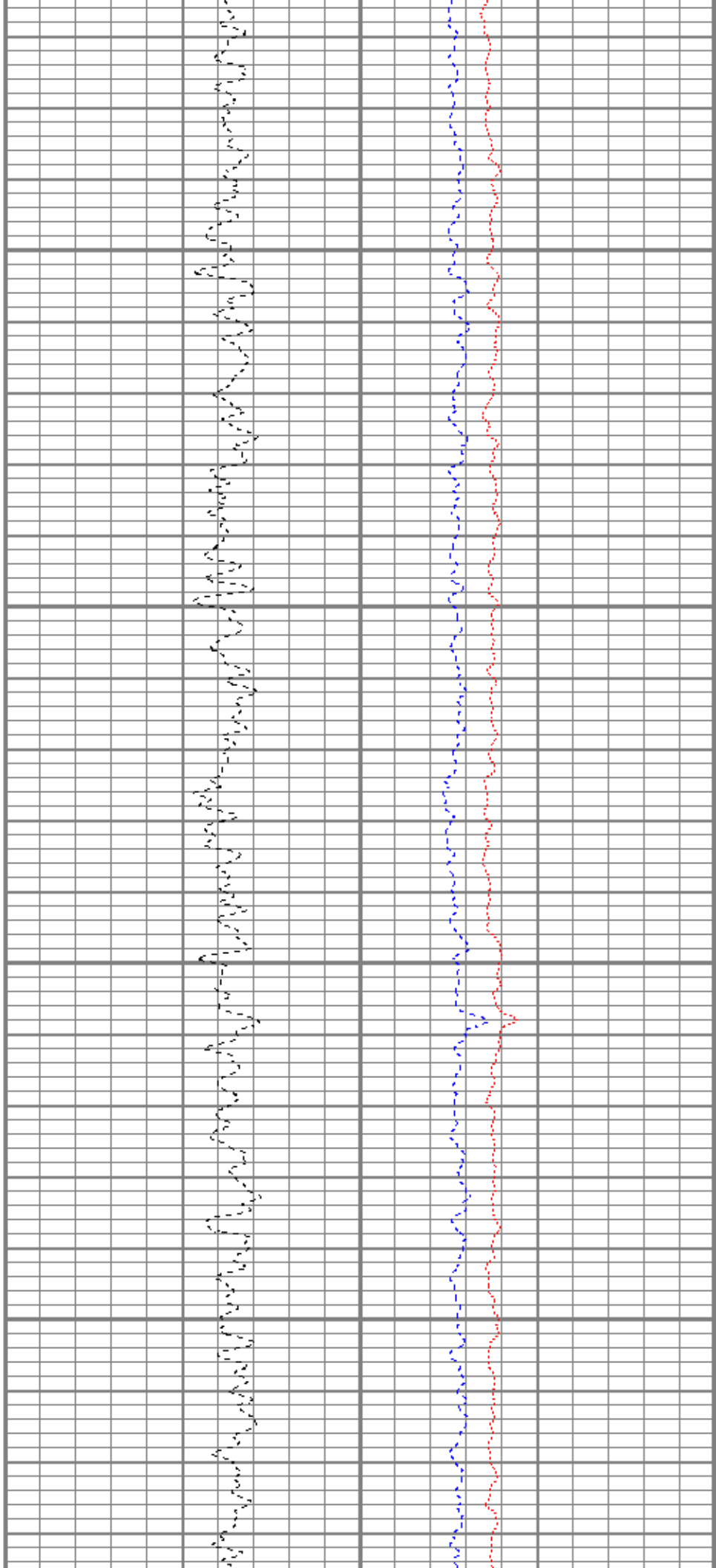
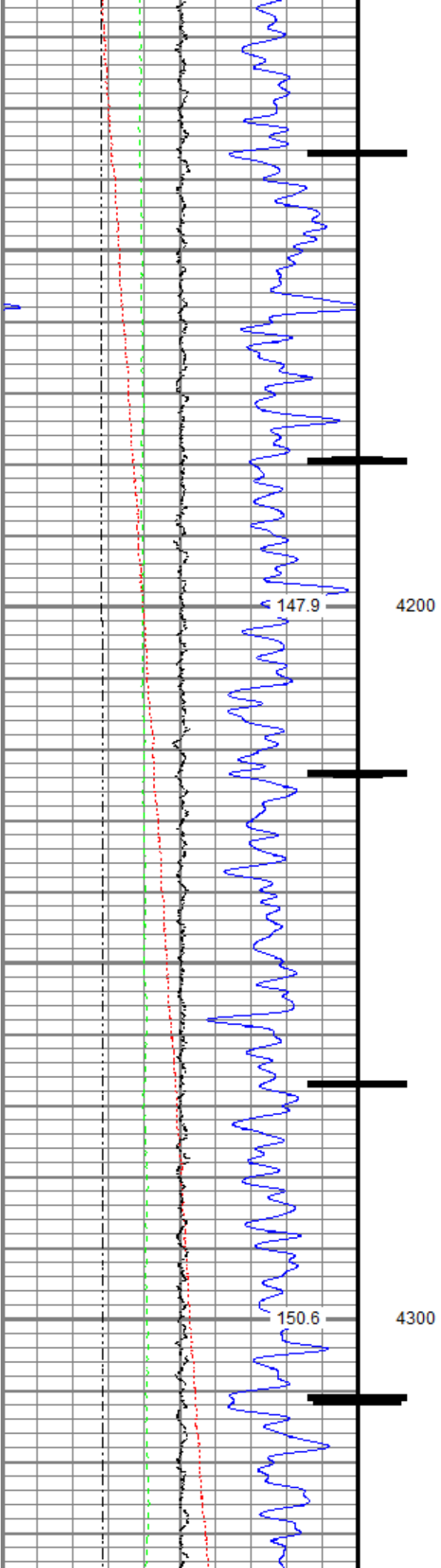


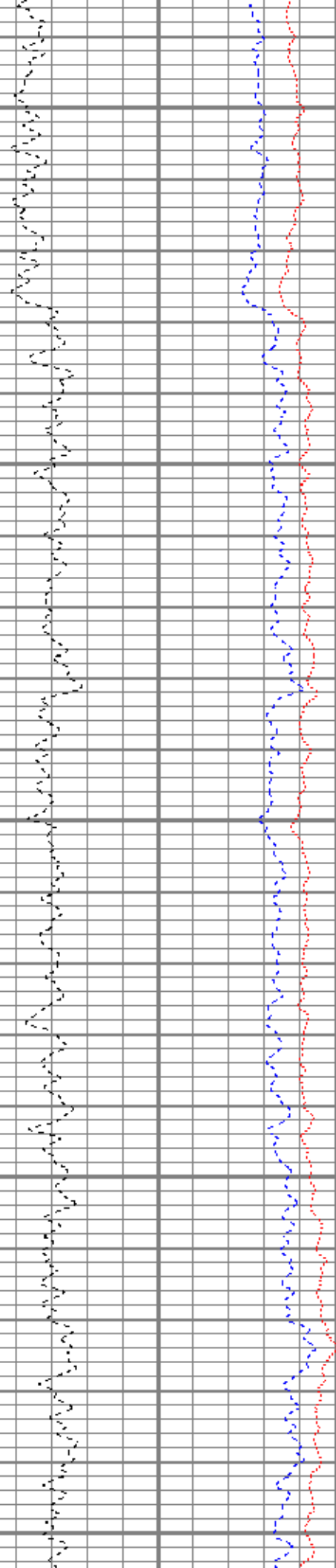
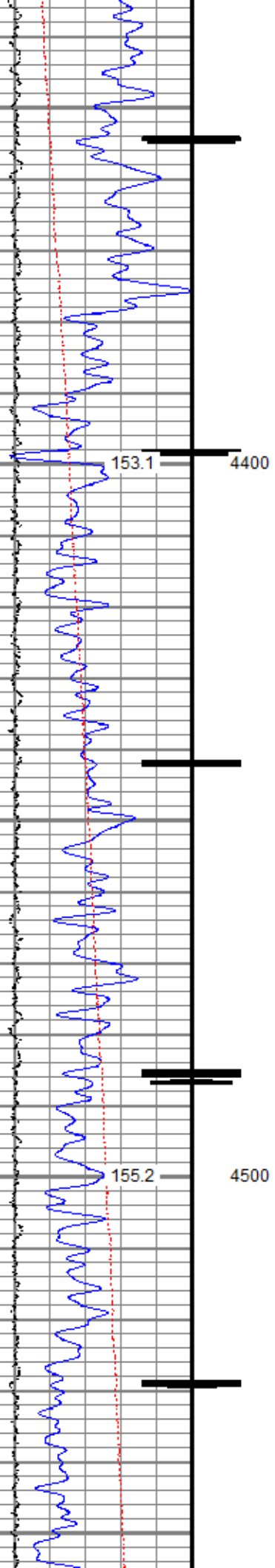


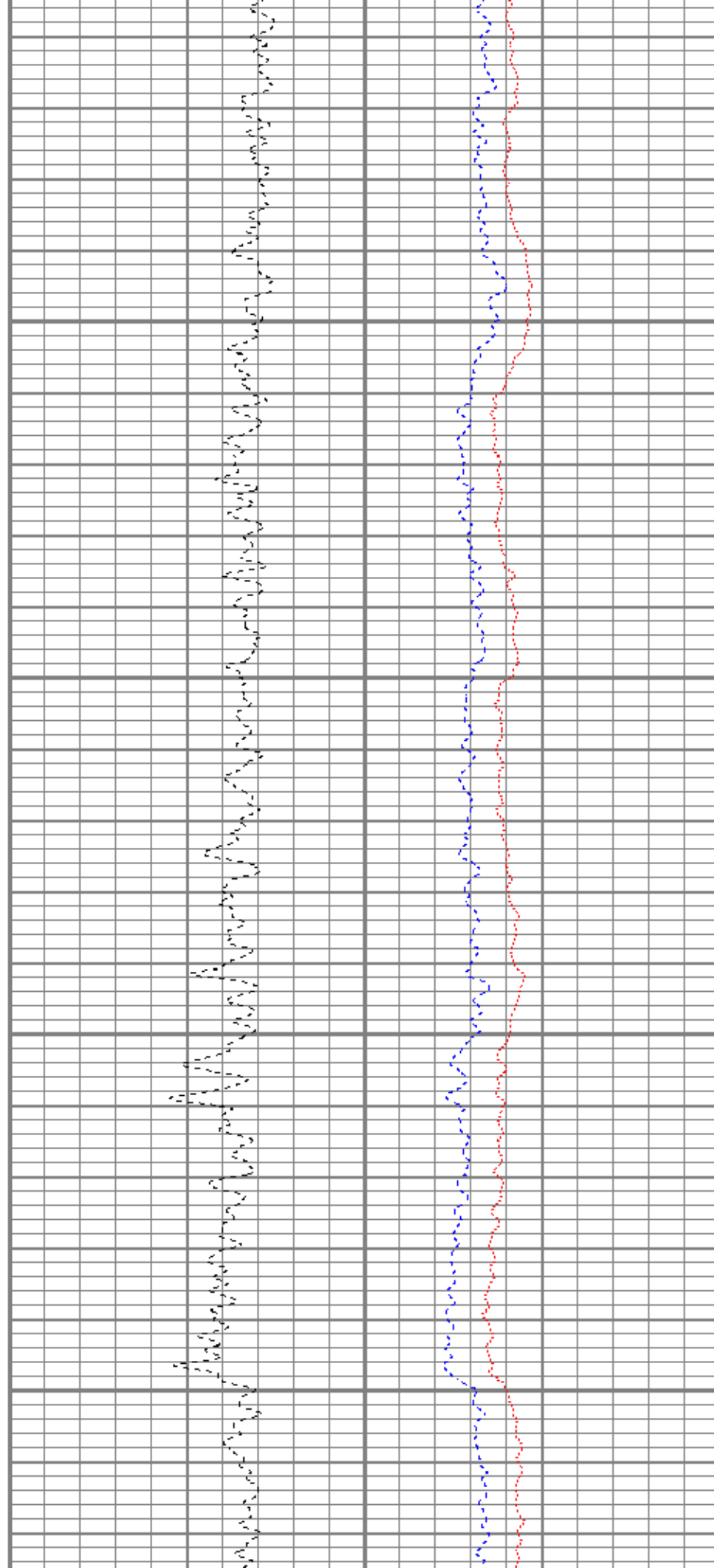
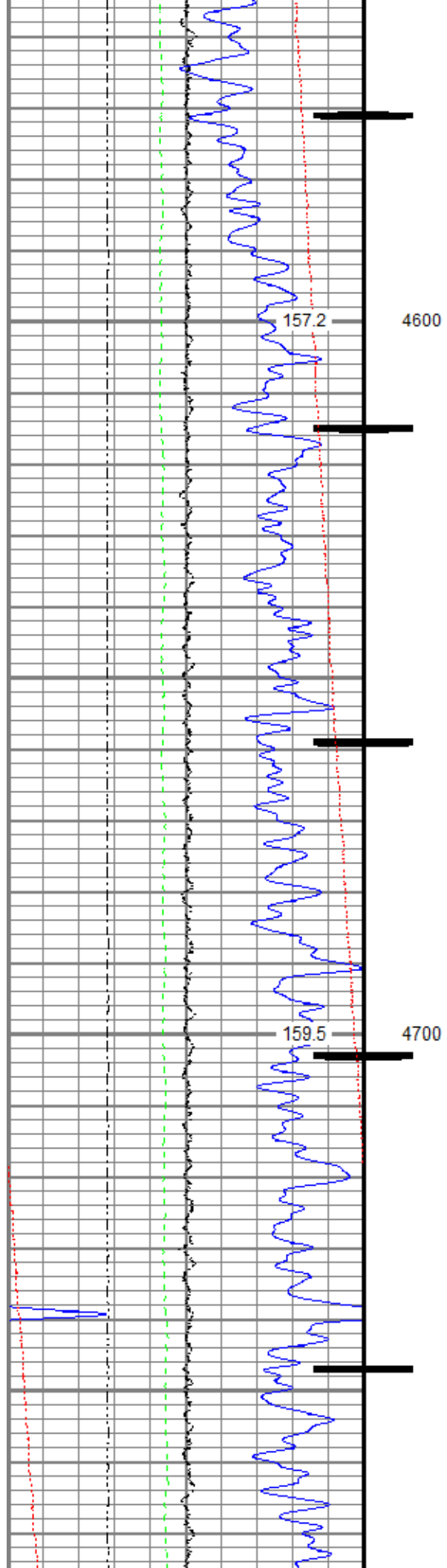


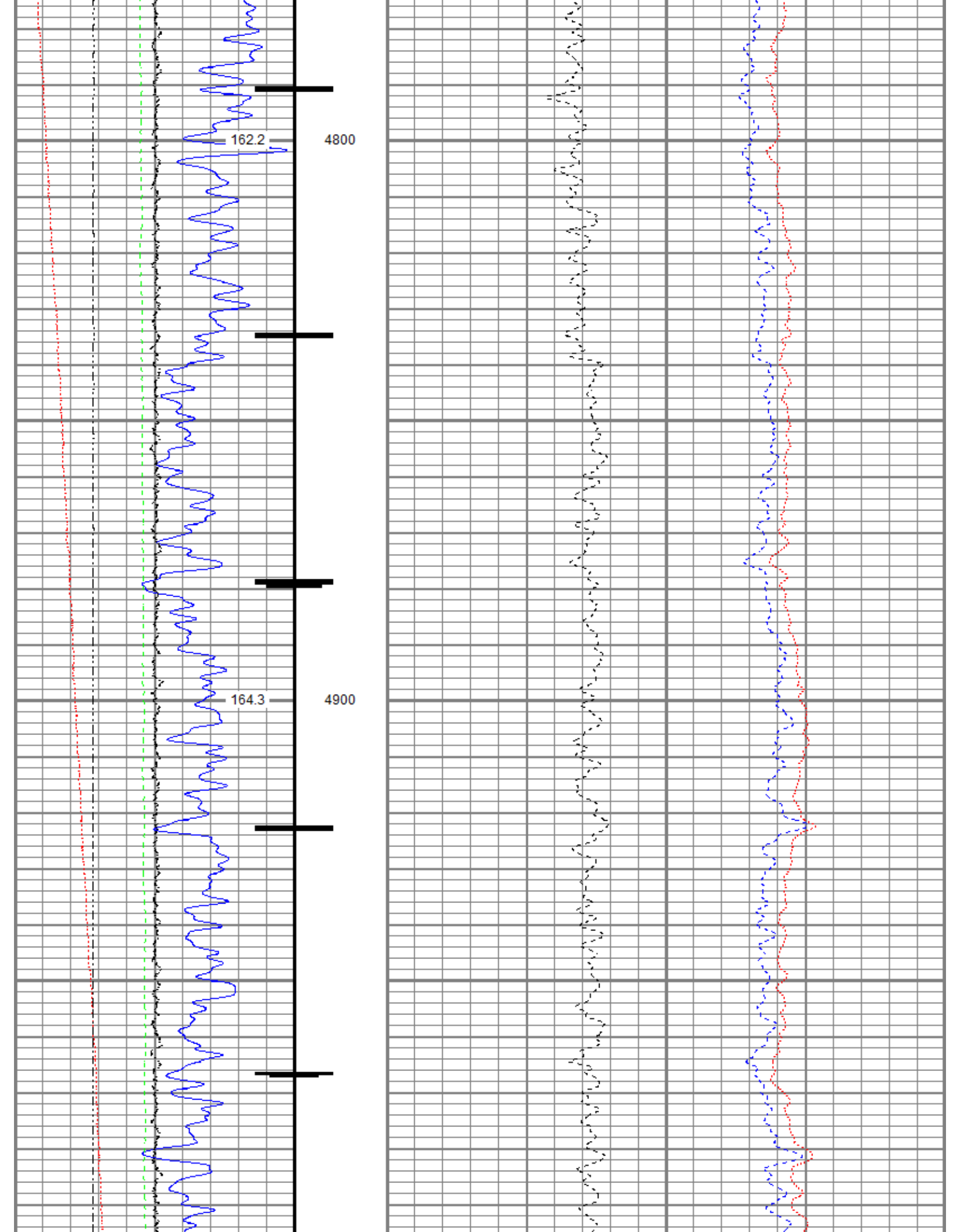


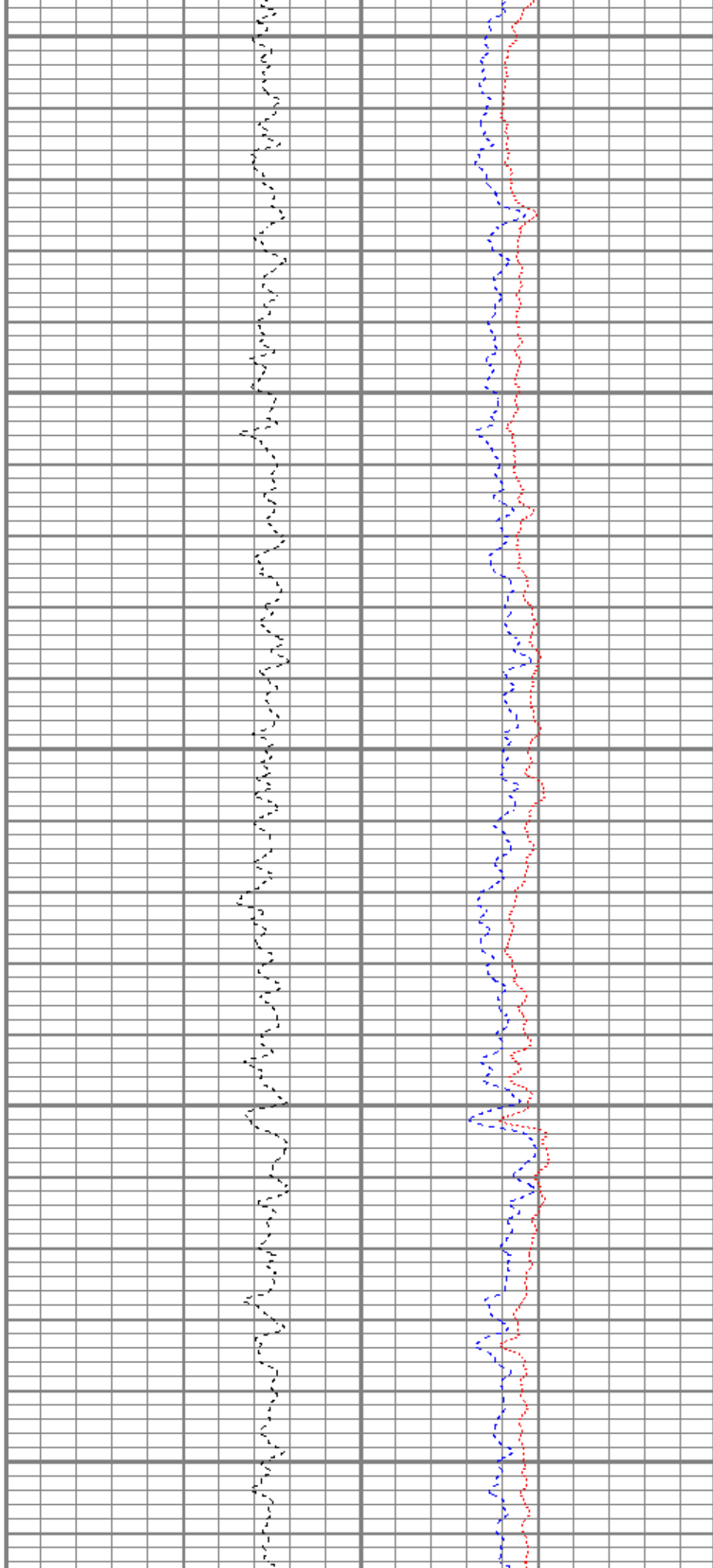
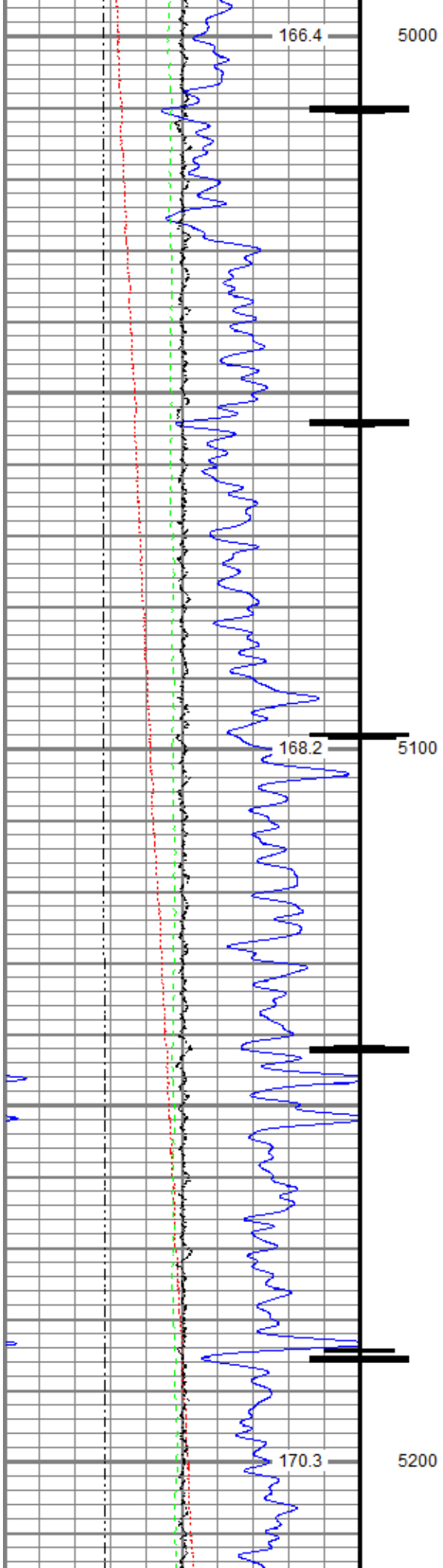


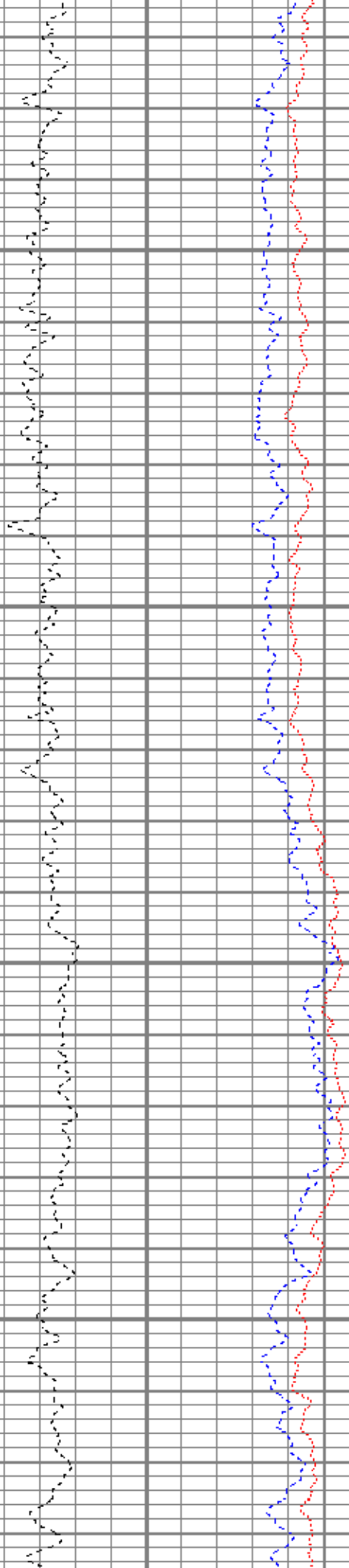
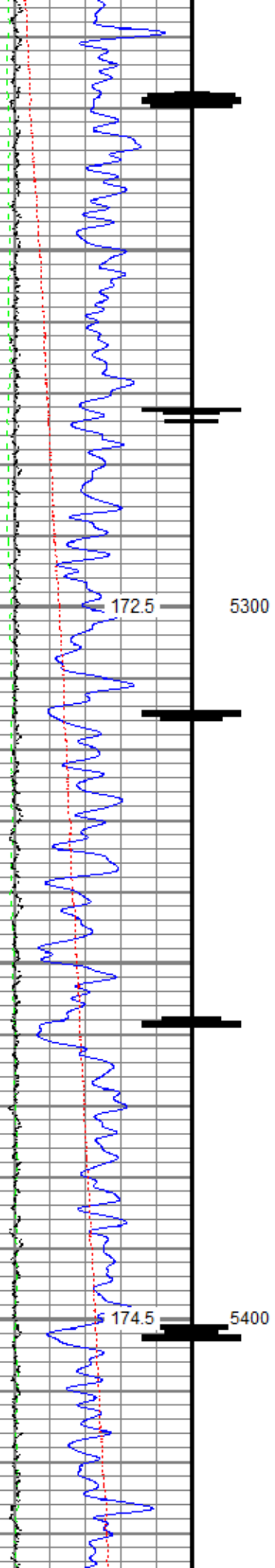


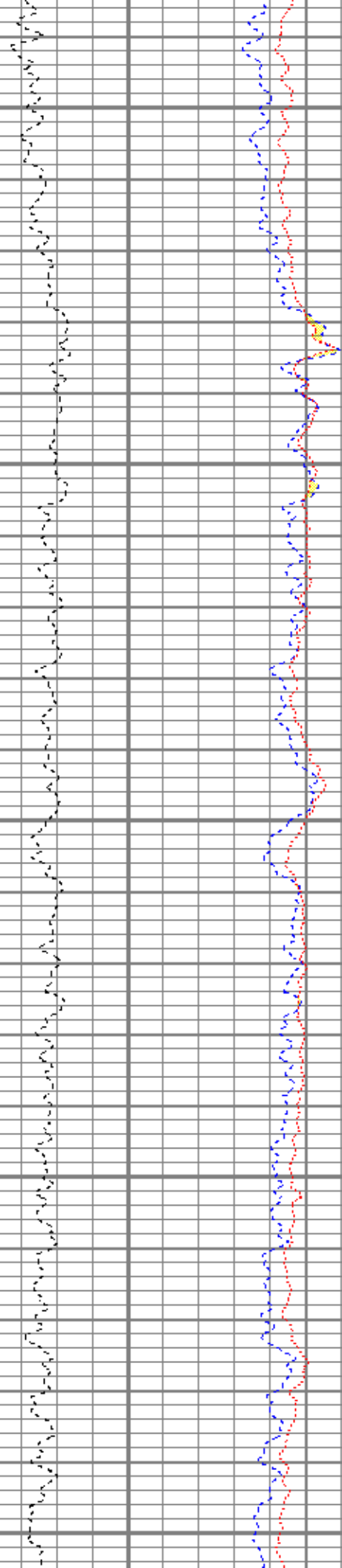
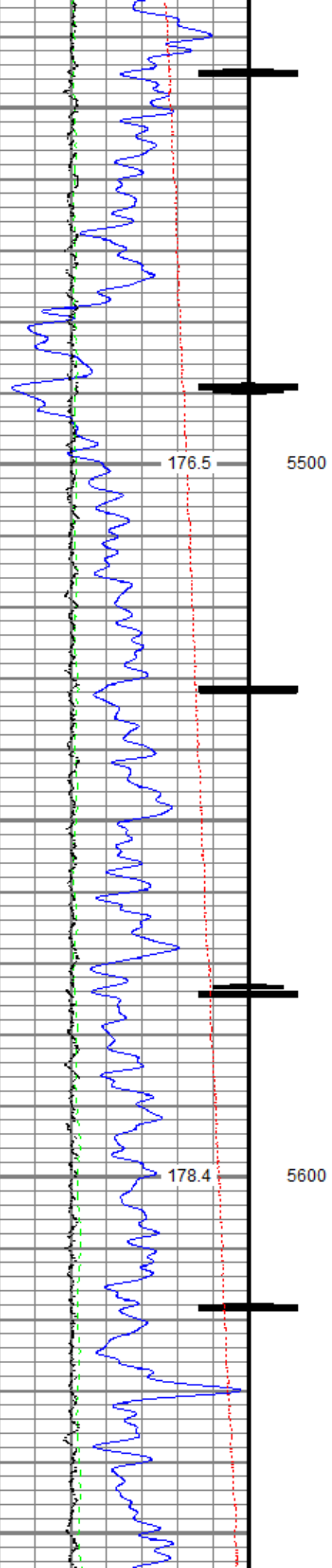


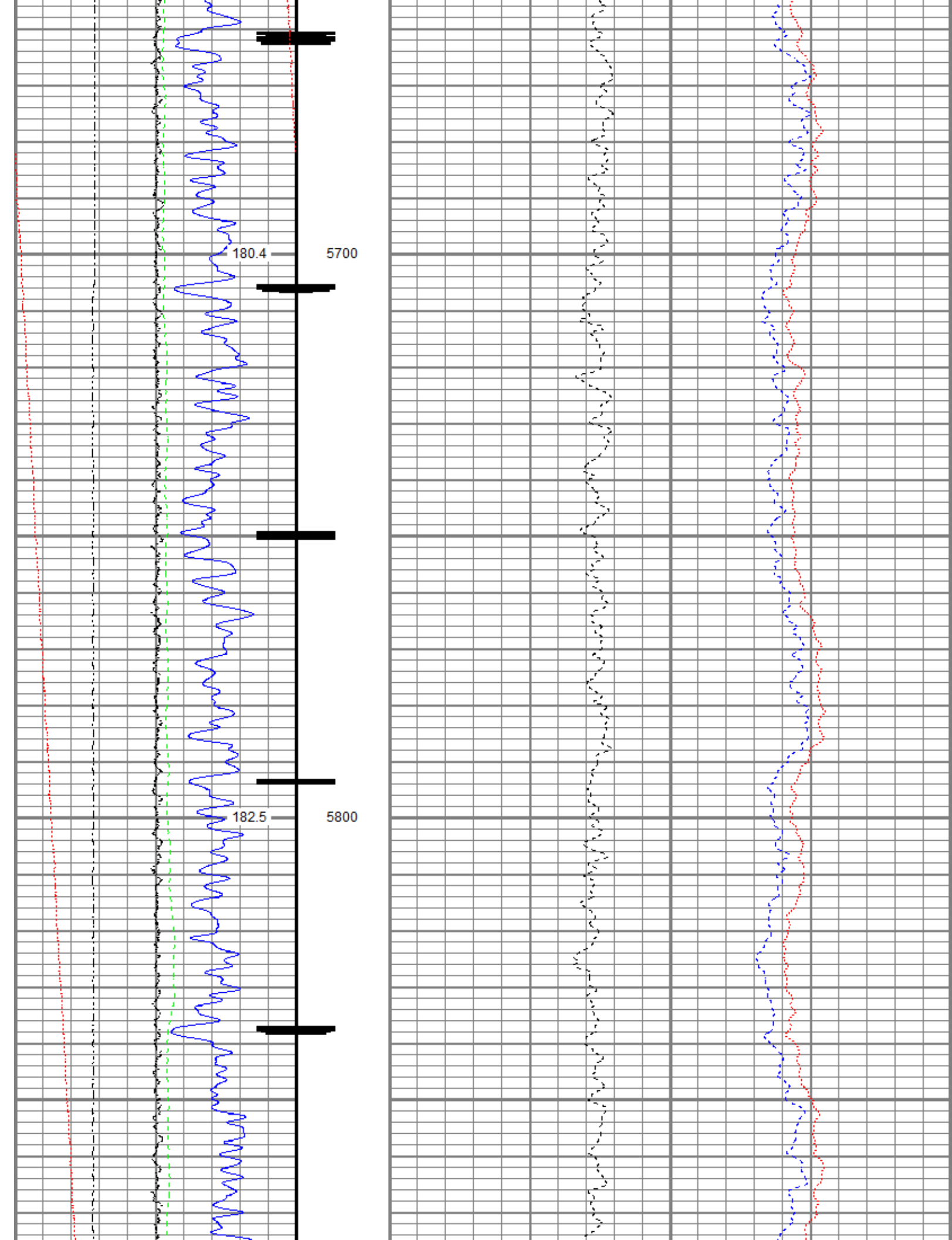


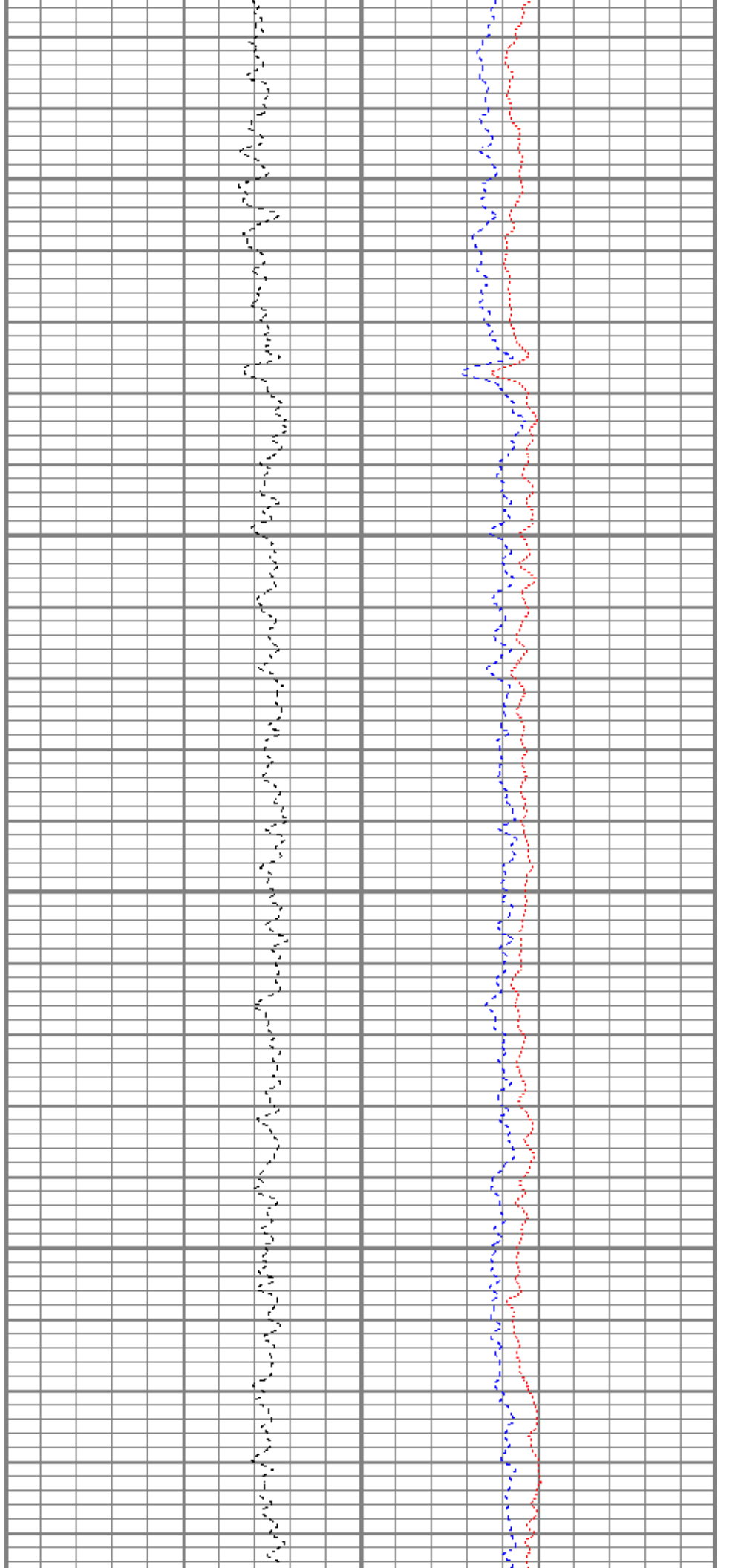
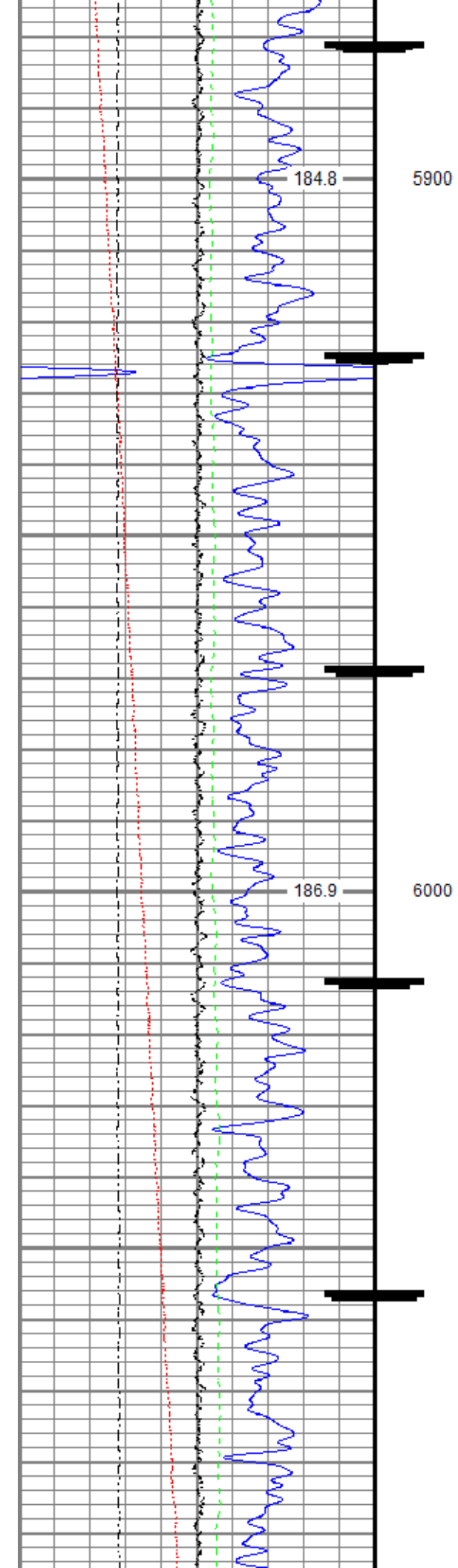


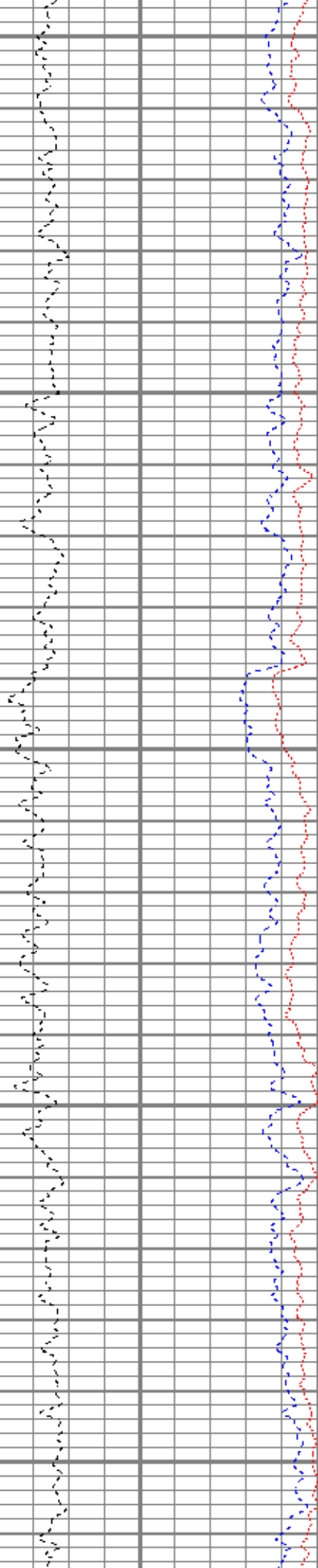
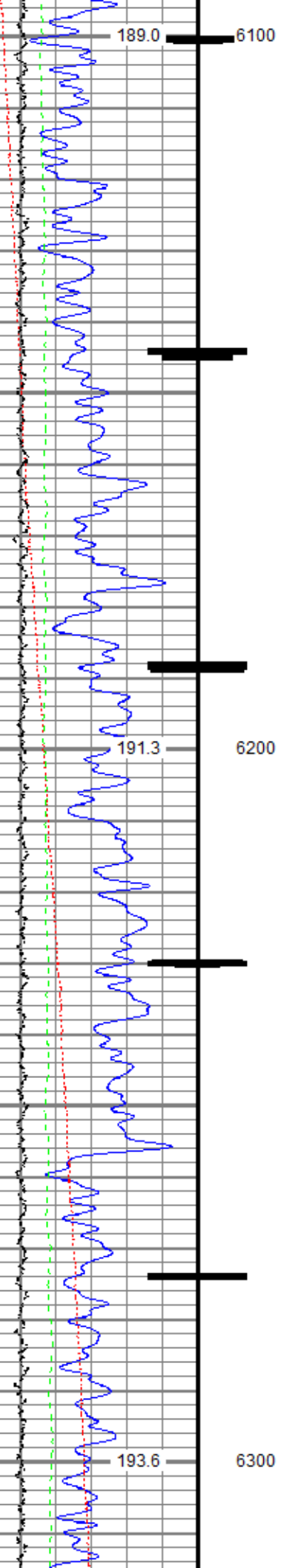


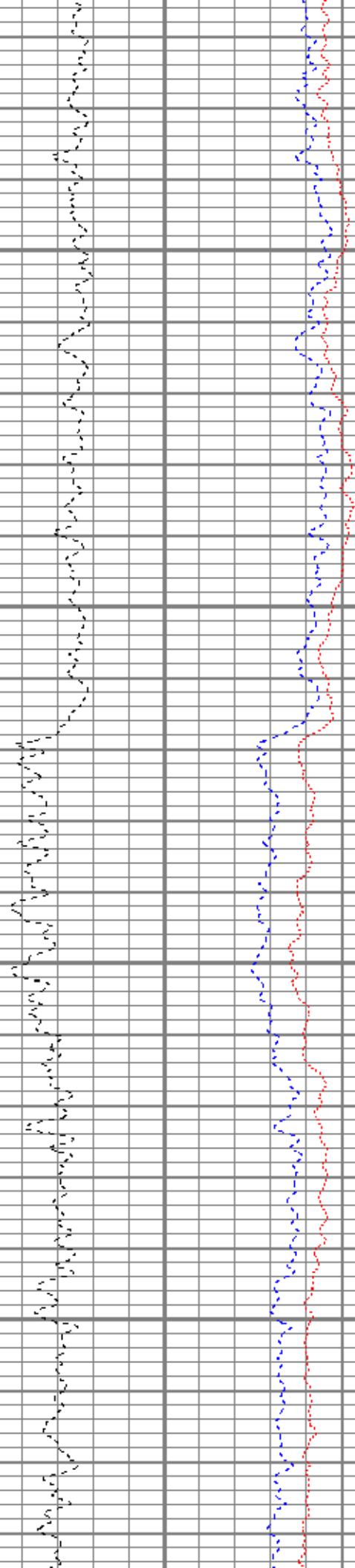
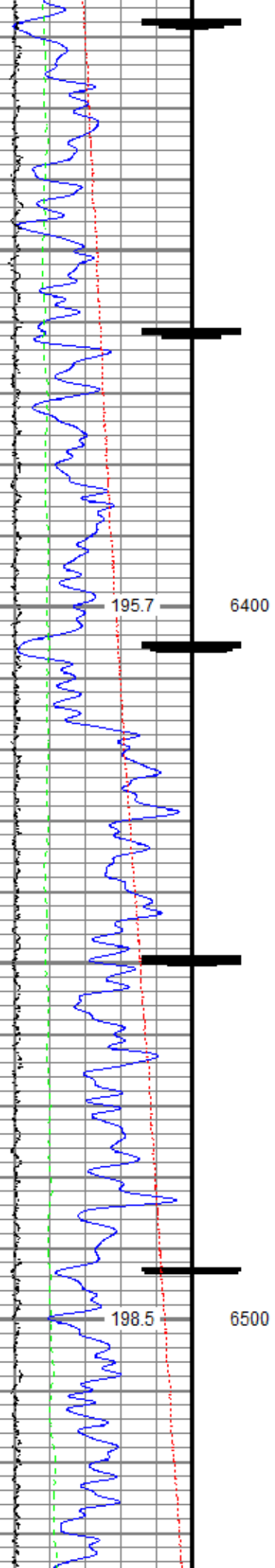


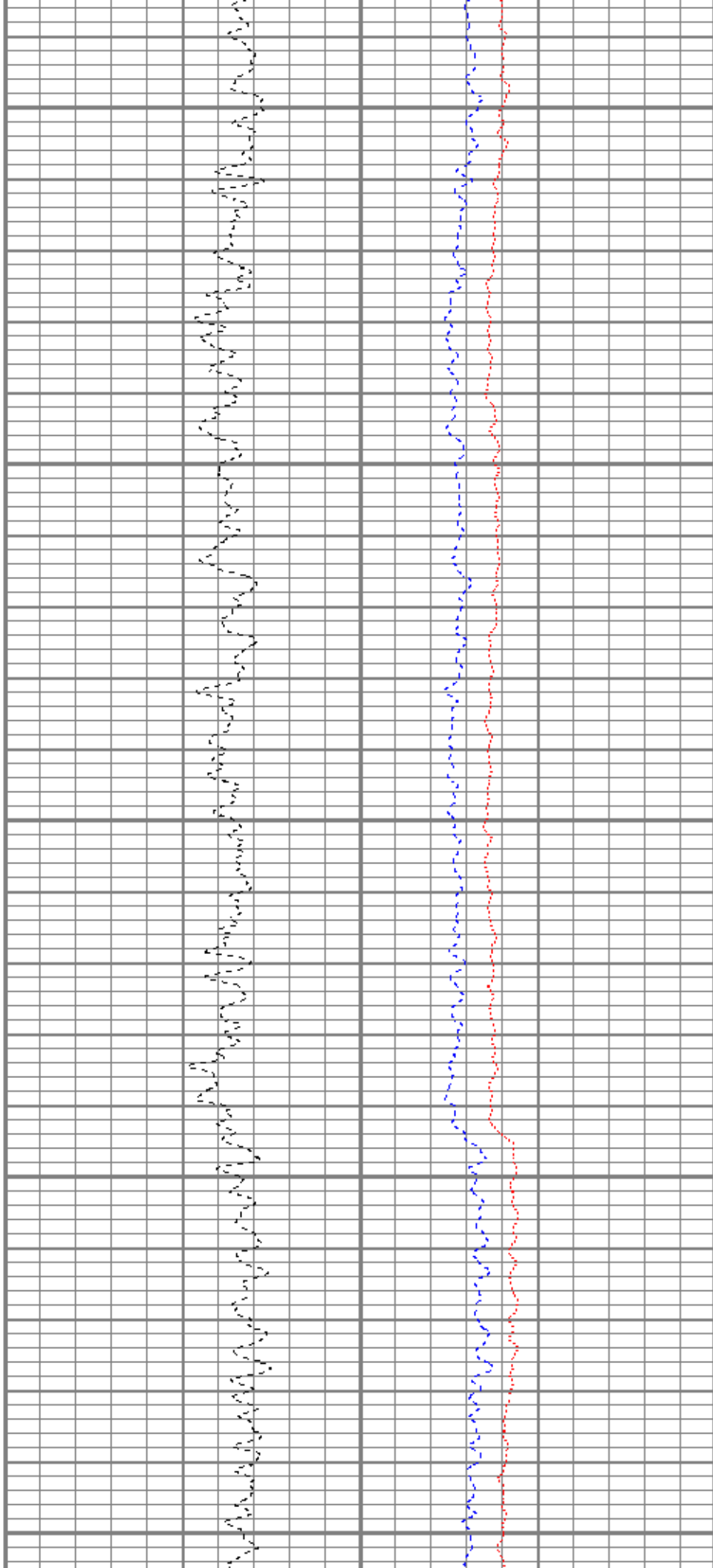
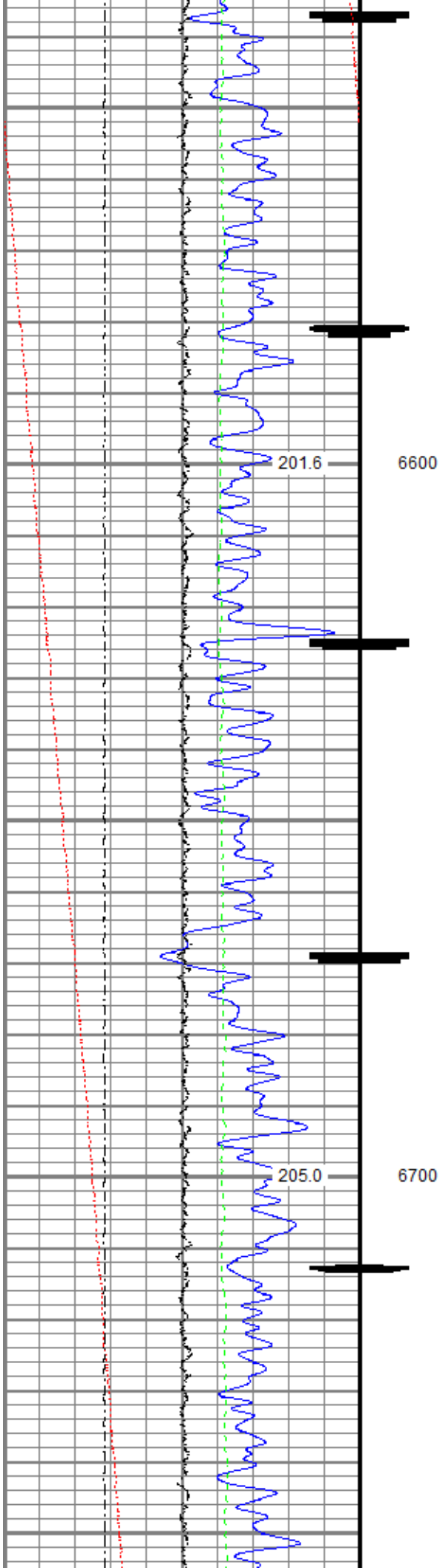


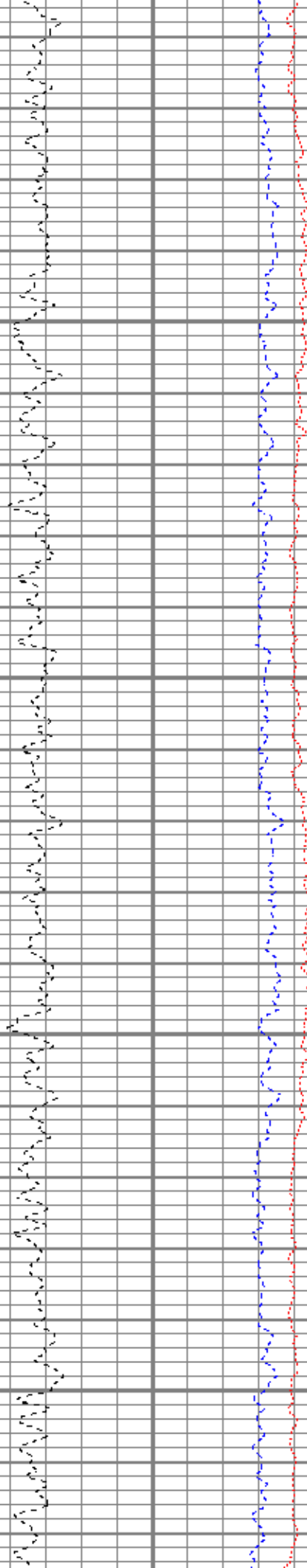
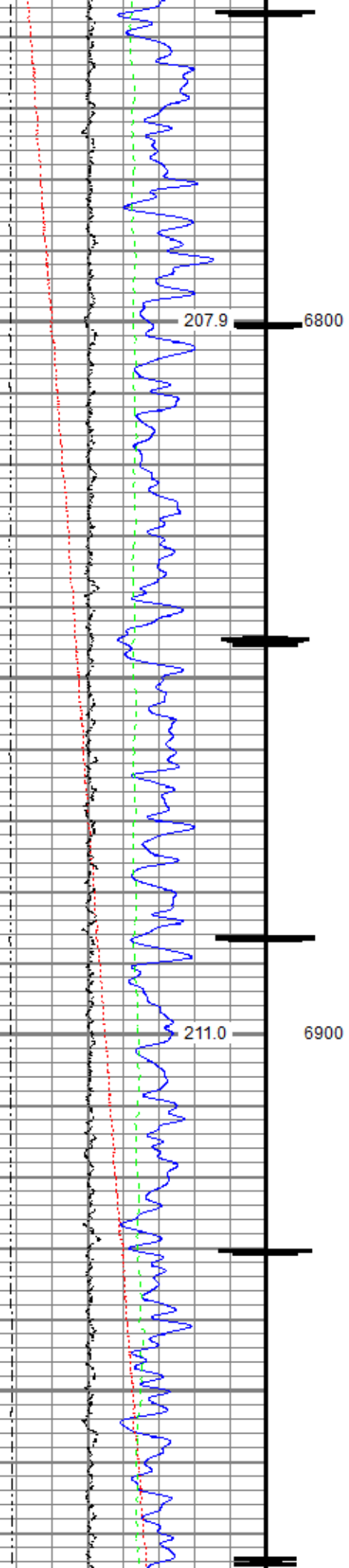


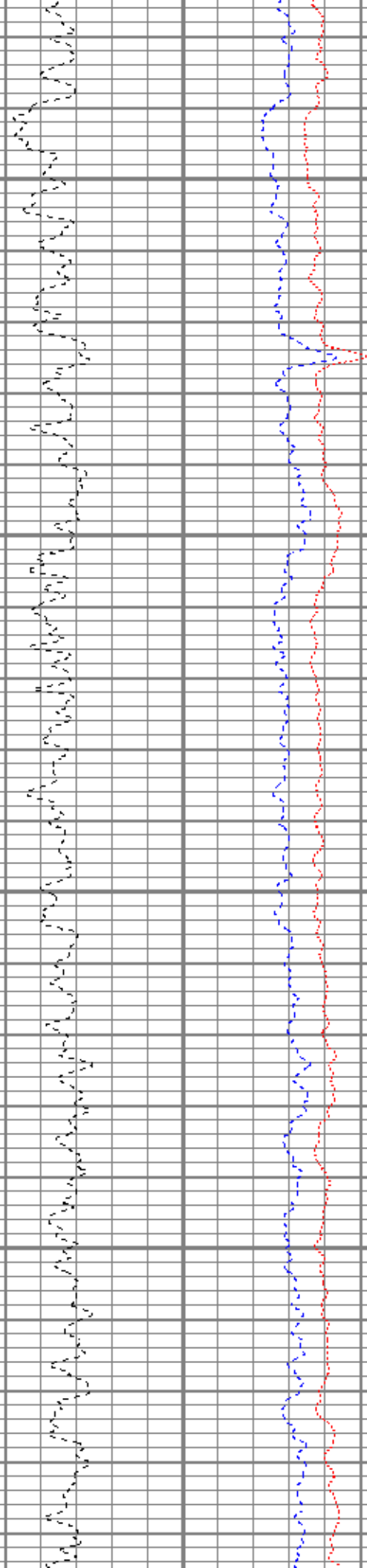
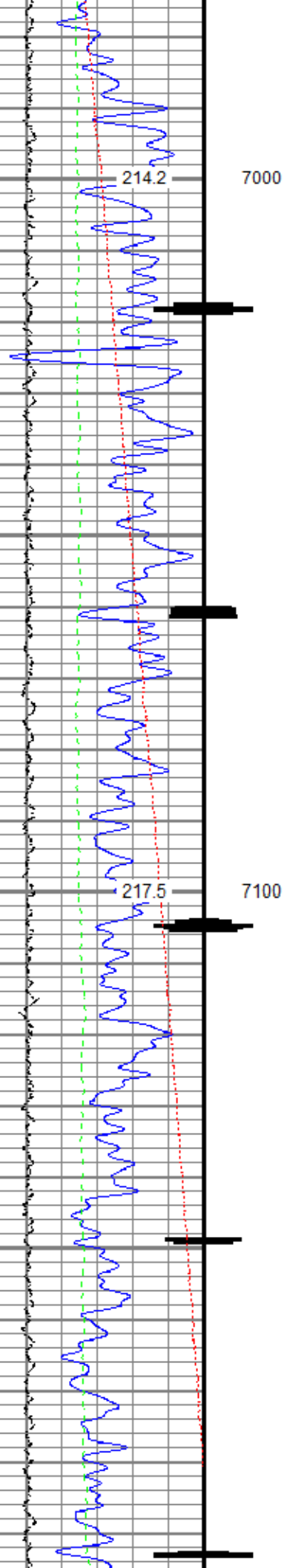


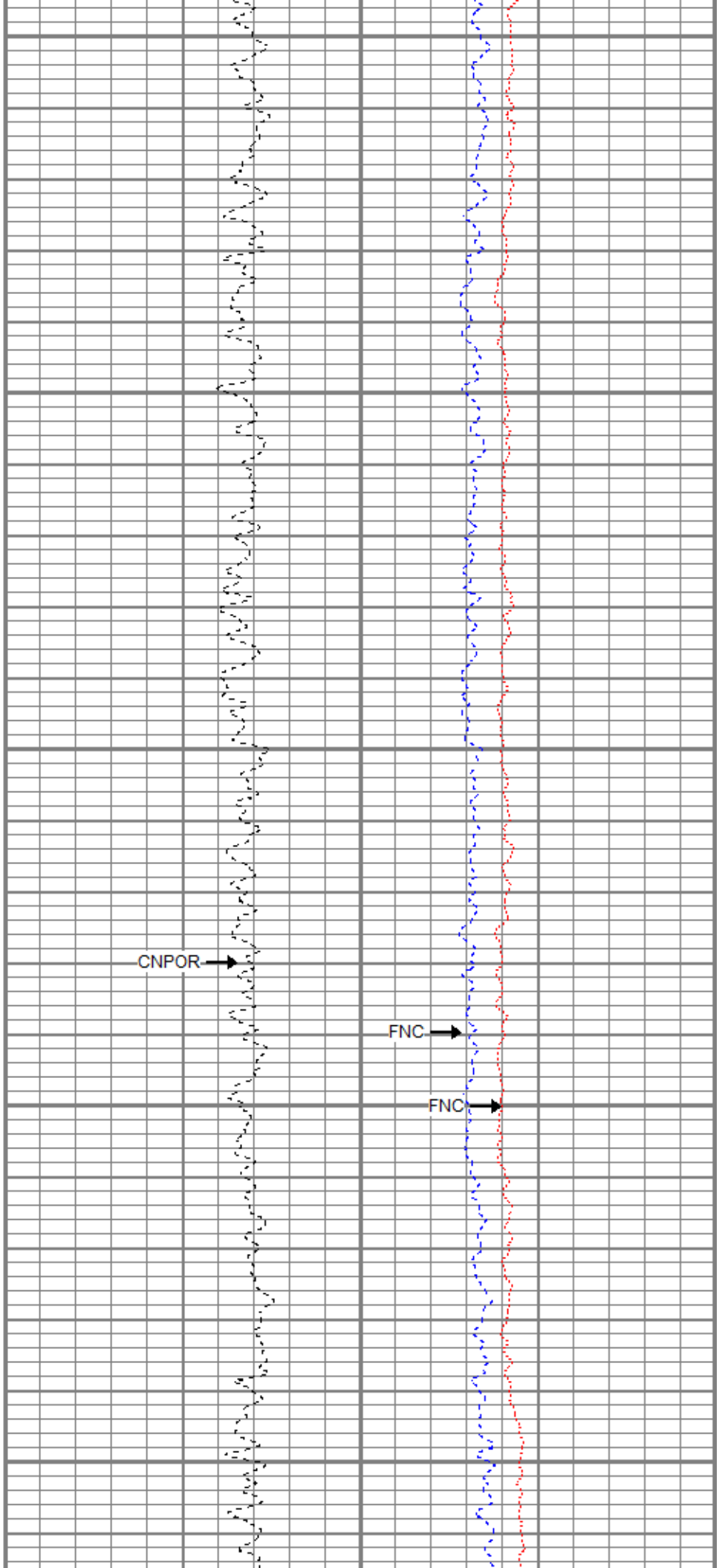
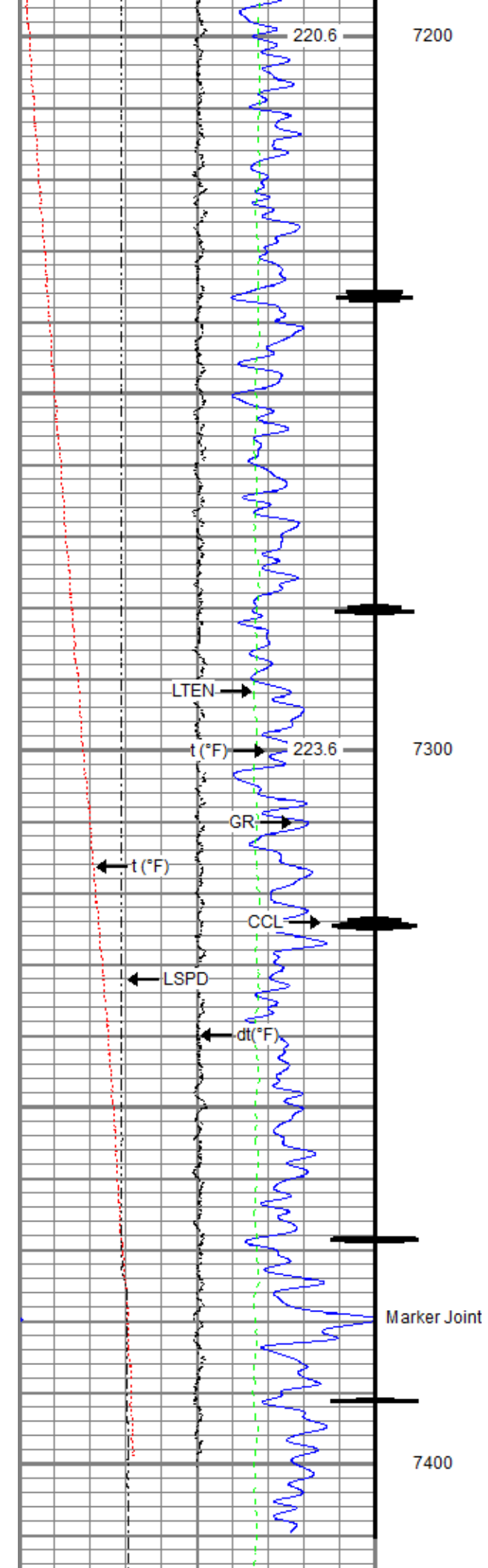


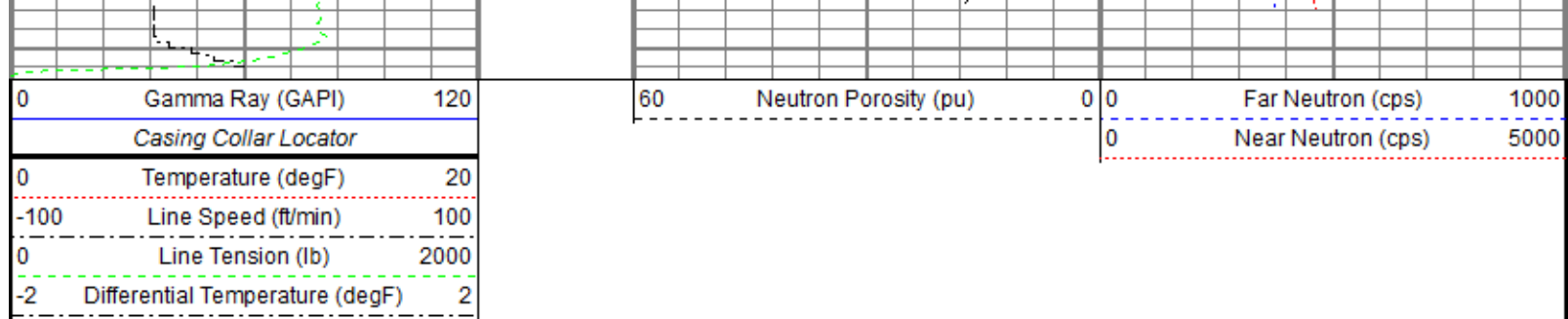








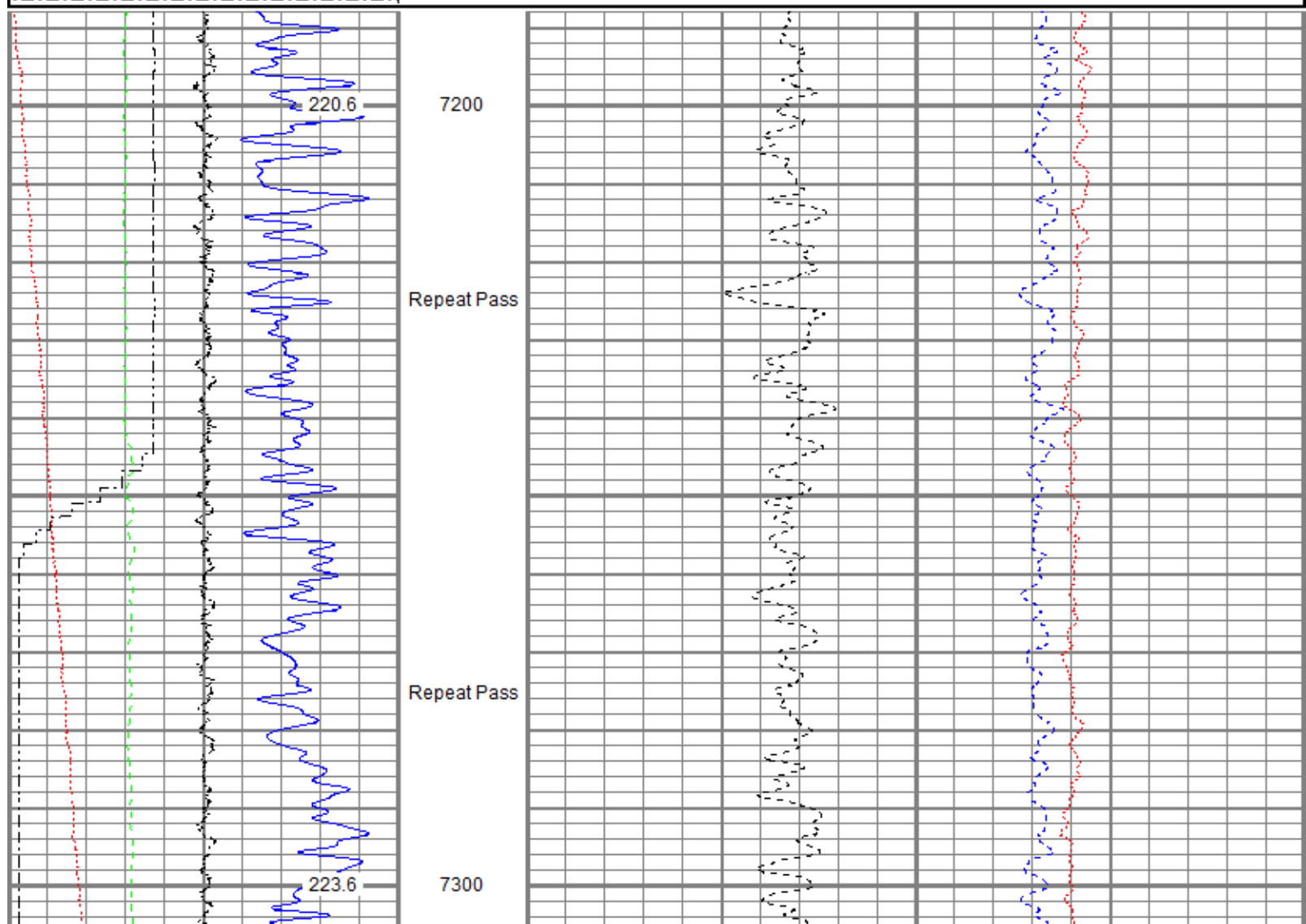
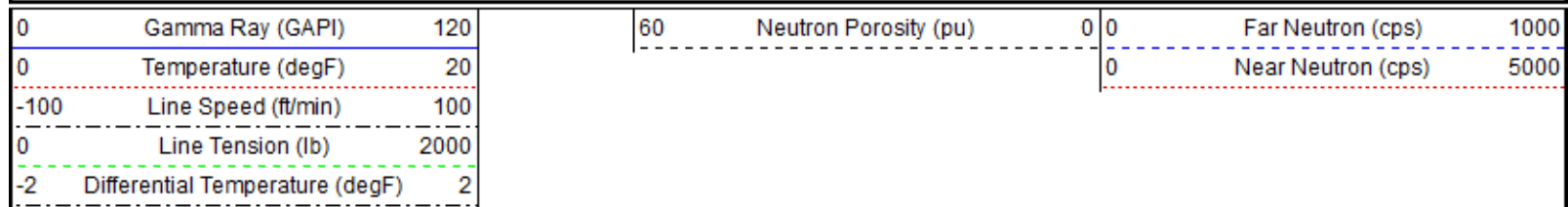


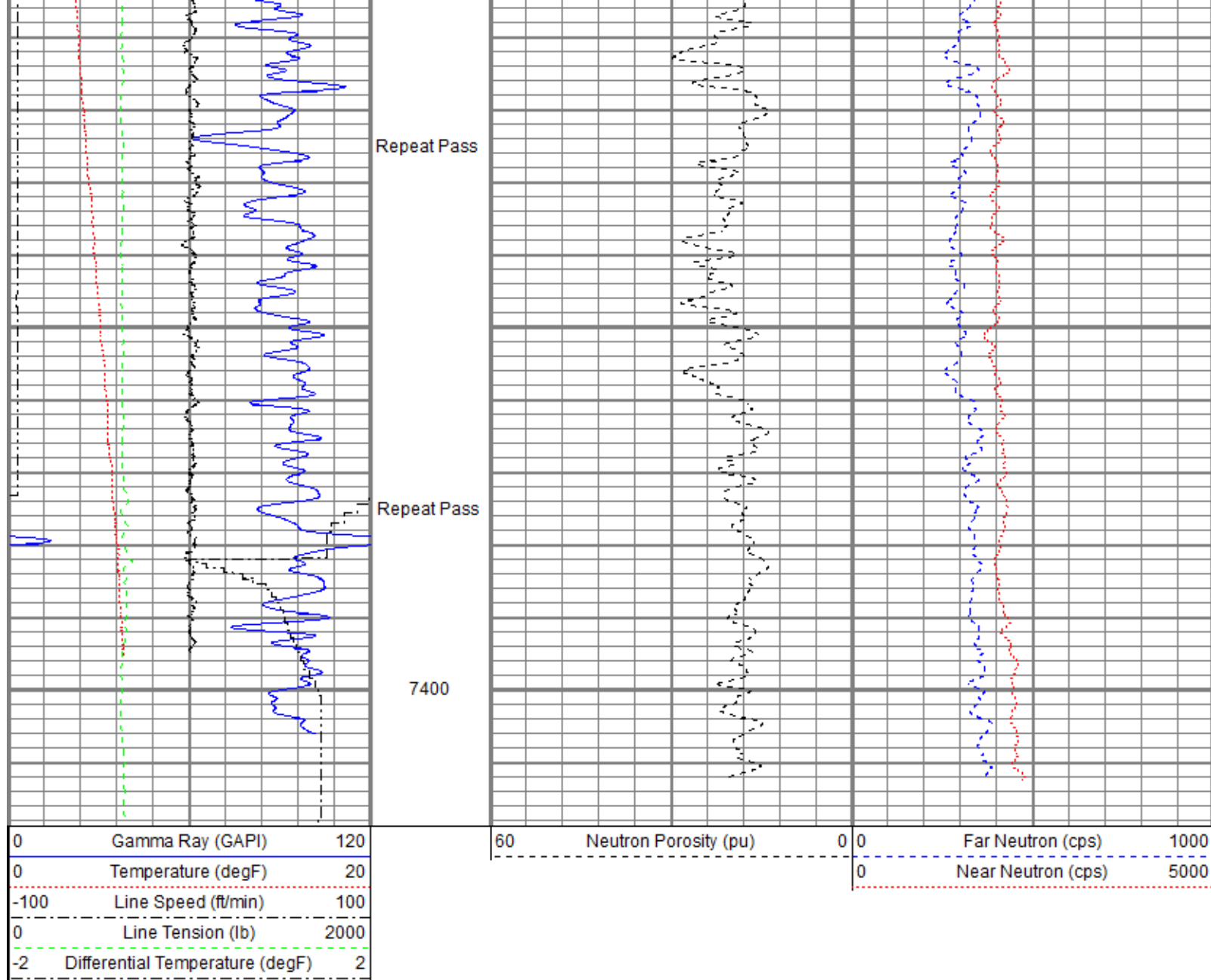


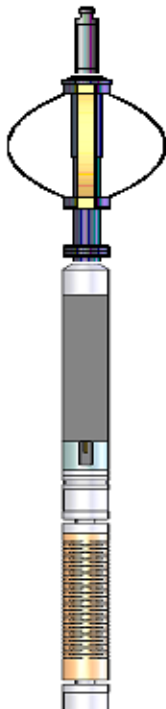
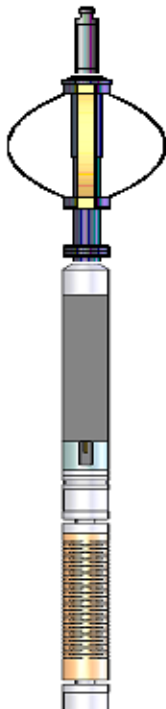
Repeat Pass

Recorded With 2800 PSI Surface Induced Pressure

Database File 0512345494_anadarko_yellowhammer 4c-8hz_rbl_cnl_02-19-17\0512345494_anadarko_yellowhammer 4c-8hz_cnl_02-19-17
 Dataset Pathname pass1
 Presentation Format ros_cnl_probe
 Dataset Creation Mon Feb 19 09:24:26 2018
 Charted by Depth in Feet scaled 1:240





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			
WVFS8	19.84		Probe Radii-2750 RBT (FW1308-091)	9.39	2.75	105.00
WVFS7	19.84		Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub			
WVFS6	19.84					
WVFS5	19.84					

Tool Joint #	Tool Joint Name	Depth (ft)	Length (ft)	Weight (lb)	O.D. (in)
WVFS5	WVFS5	19.84			
WVFS4	WVFS4	19.84			
WVFS3	WVFS3	19.84			
WVFS2	WVFS2	19.84			
WVFS1	WVFS1	19.84			
WVFCAL	WVFCAL	19.84			
WVF3FT	WVF3FT	19.84			
WVF5FT	WVF5FT	18.84			
CCL\$2	CCL\$2	11.83			
CCL\$1	CCL\$1	11.83			
GR	GR	10.50			
CN-2750 BL	CN-2750 BL (FW1308-020_A1483) Probe 2-3/4" Compensated Neutron with Bottom Load	5.03	2.75	60.00	2.75
CENT-2750	CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00	2.75
CENT-2750	CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00	2.75
Dataset: 0512345494_Anadarko_Yellowhammer 4C-8HZ_CNL_02-19-17.db: field/well/run1/pass2.2 Total length: 28.90 ft Total weight: 283.60 lb O.D.: 2.75 in					

2)	Short Space Long Space	cps cps	pu pu
3)	Short Space Long Space	cps cps	pu pu

POST-SURVEY VERIFICATION			
	Detector	Readings	Measured Target
1)	Short Space Long Space	cps cps	pu pu
2)	Short Space Long Space	cps cps	pu pu
3)	Short Space Long Space	cps 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:	FW1308-091		
Tool Model:	2750 RBT		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	45.900	ft	


Master Calibration, performed (Derived):						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	0.473	0.800	71.921	146.576	2.529
CAL	0.003	0.523				
5'	-0.005	0.466	0.800	71.921	151.067	1.546
SUM						
S1	-0.039	0.466	0.000	100.000	197.845	7.734
S2	-0.026	0.471	0.000	100.000	201.419	5.222
S3	-0.009	0.478	0.000	100.000	205.145	1.927
S4	0.001	0.491	0.000	100.000	204.102	-0.143
S5	0.001	0.502	0.000	100.000	199.606	-0.186
S6	-0.002	0.494	0.000	100.000	201.774	0.381
S7	-0.022	0.478	0.000	100.000	200.234	4.325
S8	-0.049	0.475	0.000	100.000	190.829	9.442

Internal Reference Calibration, performed (Not Performed):						
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.523	1.000	0.000

Air Zero Calibration, performed Mon Feb 19 09:22:34 2018:						
	Raw (v)		Calibrated (v)		Results	

	Zero	Zero	Offset
3'	0.004	0.000	0.000
5'	0.003	0.000	0.000
SUM			
S1	0.004	0.000	0.000
S2	0.003	0.000	0.000
S3	0.004	0.000	0.000
S4	0.004	0.000	-0.000
S5	0.004	0.000	0.000
S6	0.004	0.000	-0.000
S7	0.004	0.000	0.000
S8	0.004	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		

	Company	Kerr-McGee Oil & Gas Onshore, L.P.
	Well	Yellowhammer 4C-8HZ
	Field	Wattenberg
	County	Weld
	State	Colorado