



Temperature
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Youberg SR 521-12
Field Rulison
County Garfield
State Colorado

Company TEP Rocky Mountain LLC
Well Youberg SR 521-12
Field Rulison
County Garfield
State Colorado

Location: API #: 05-045-23433

SEC 12 TWP 7S RGE 94W

Permanent Datum Ground Level Elevation 7254'

Log Measured From Kelly Bushing 24 FT

Drilling Measured From Kelly Bushing

Elevation

K.B. 7278'

D.F. 7277'

G.L. 7254'

Date 29-JUN-2017

Run Number One

Depth Driller 9554 FT

Depth Logger 9462 FT

Bottom Logged Interval 9462 FT

Top Log Interval Surface

Open Hole Size 8.750"

Type Fluid Fresh Water

Density / Viscosity 8.34 lb/gal

Max. Recorded Temp. 197°F

Estimated Cement Top 4750 FT

Time Well Ready ROA

Time Logger on Bottom 20:00

Equipment Number HD-264

Location Grand Junction

Recorded By A. Ellsworth

Witnessed By ---

Run Number

Bit From To

Size Weight From To

Casing Record

Surface Casing 9 5/8 32.3 --- Top 1100 FT

Intermediate #1 4 1/2 11.6 --- Surface 9554 FT

Intermediate #2

Liner

Bottom

<<< 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 Kelly Bushing at 24 FT
Marker joint logged from 5331 FT 5354 FT

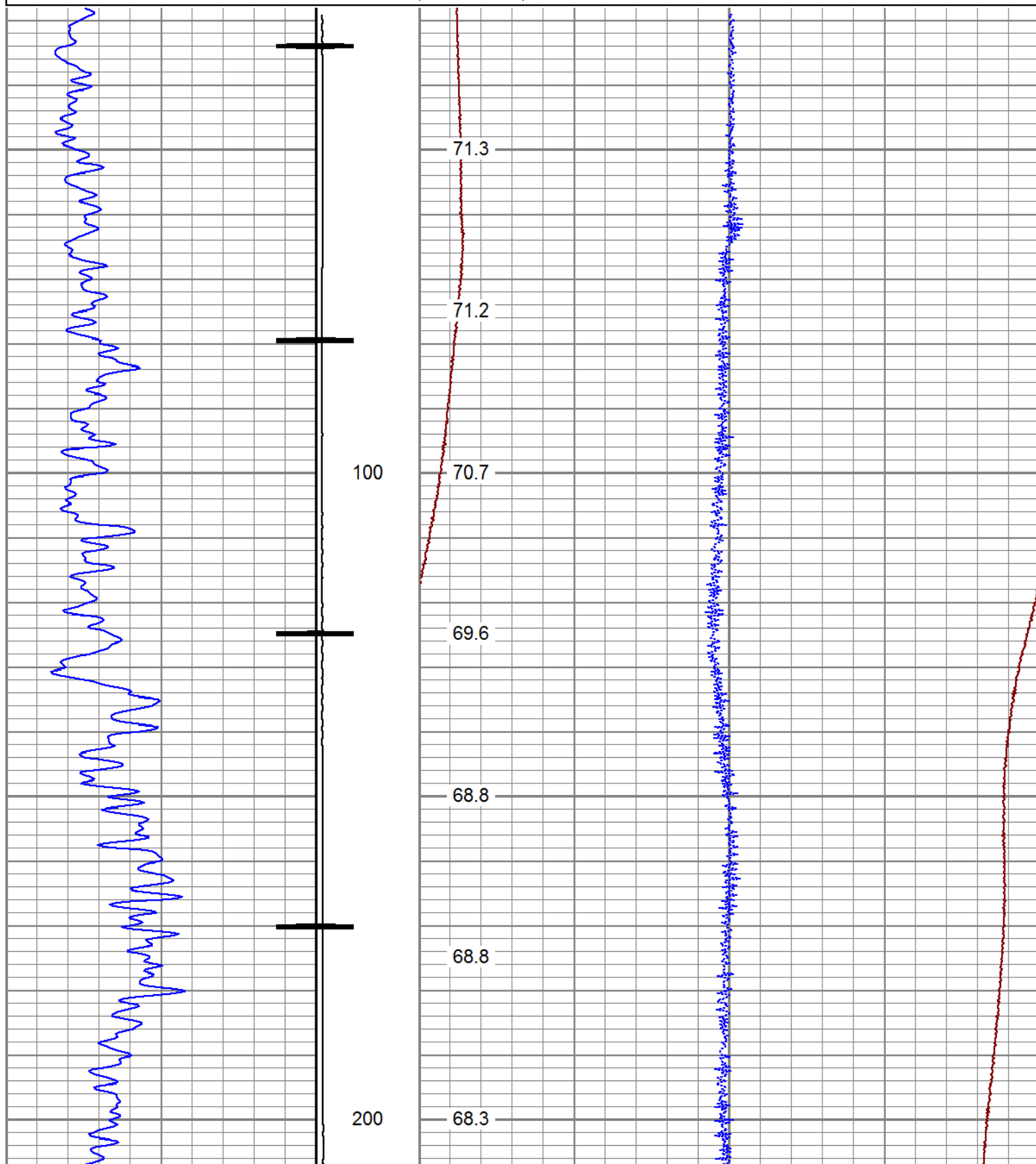
Thank you for choosing Reliance Oilfield Services, LLC!!

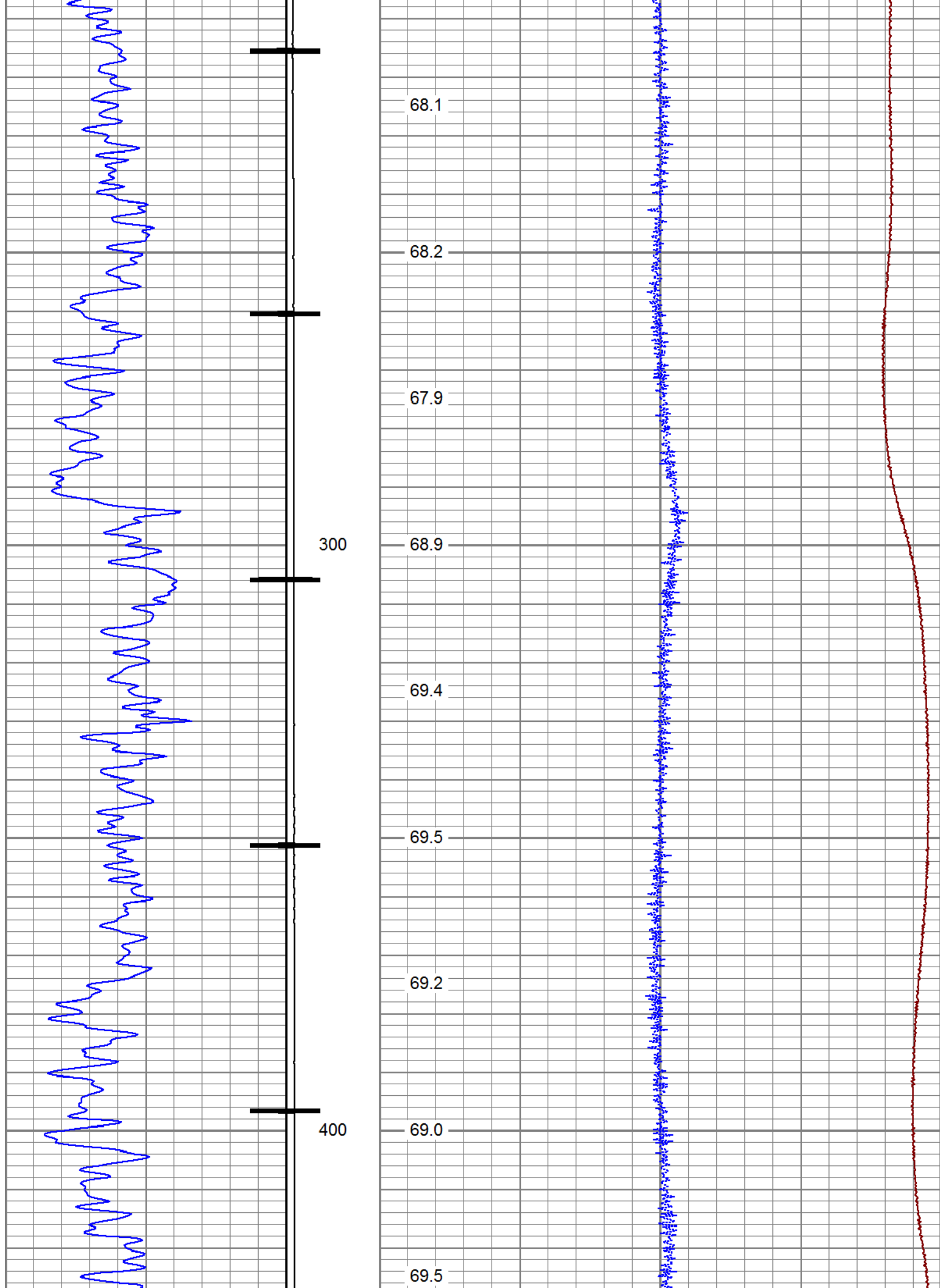


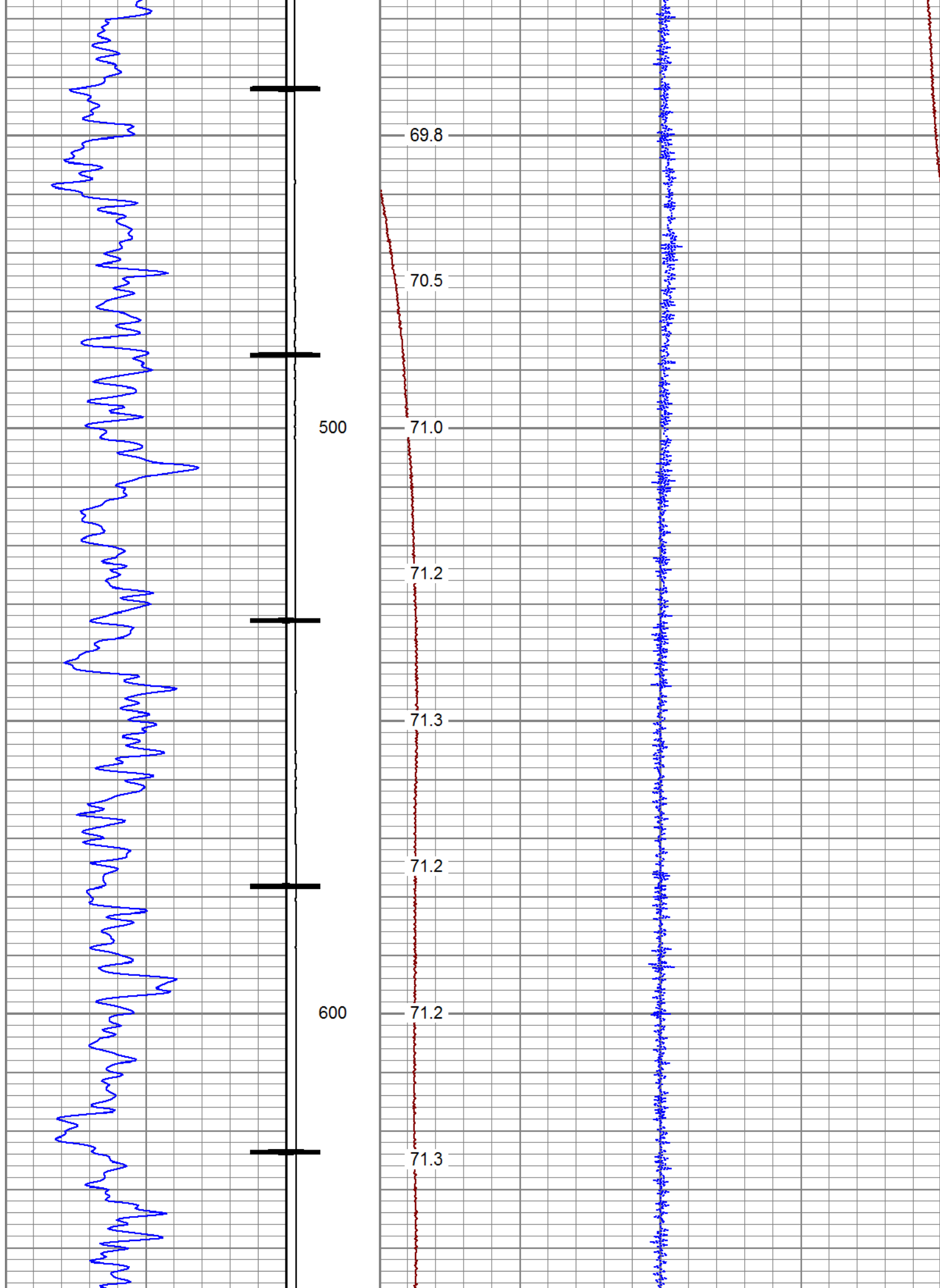
Main Pass

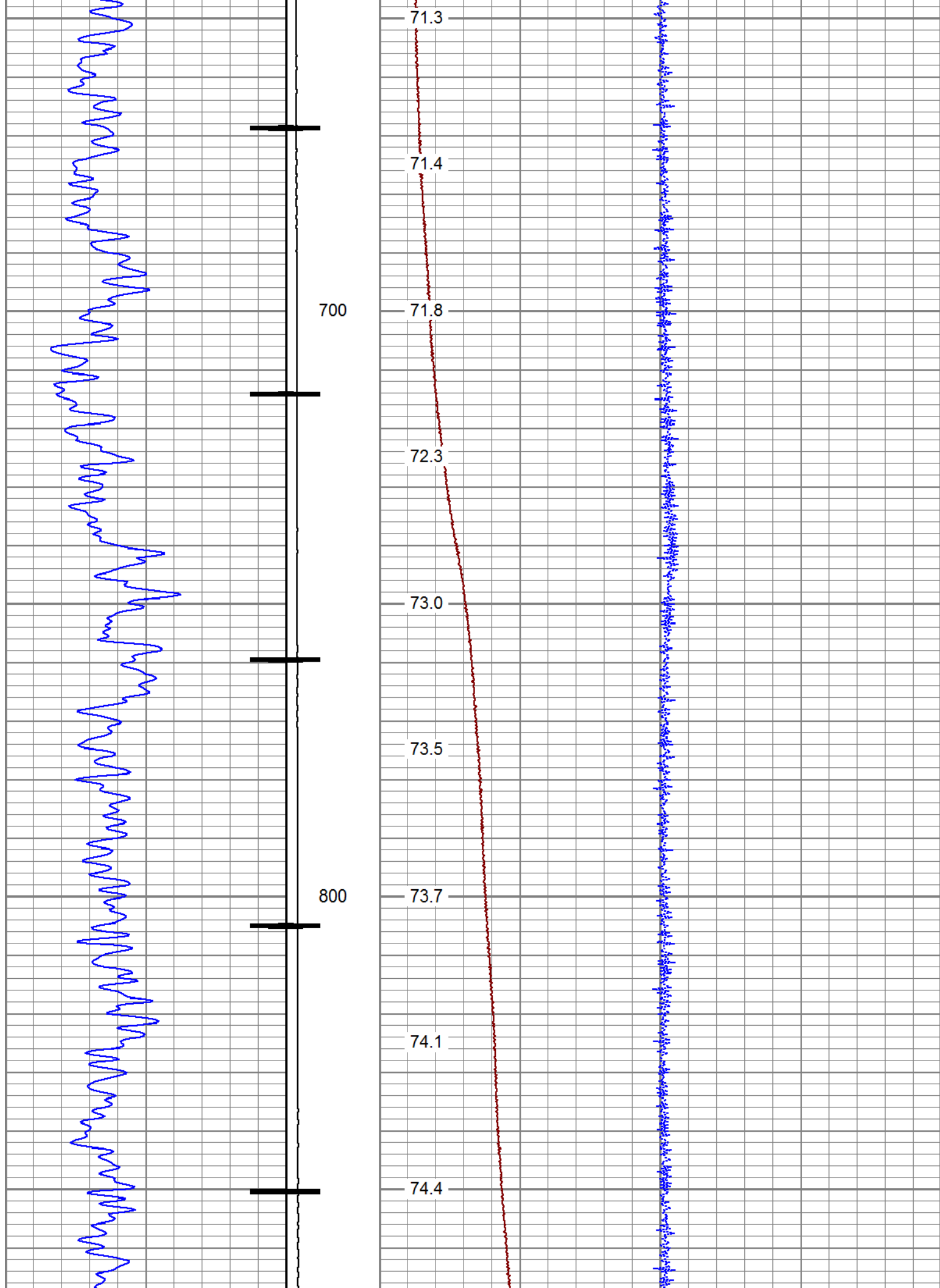
Database File tep_youberg sr 521-12_temp_06-29-17\processed_tep_youberg sr 521-12_temp_06-29-17.db
Dataset Pathname merge1.1
Presentation Format ros_temp_tep
Dataset Creation Thu Jun 29 21:58:03 2017
Charted by Depth in Feet scaled 1:240

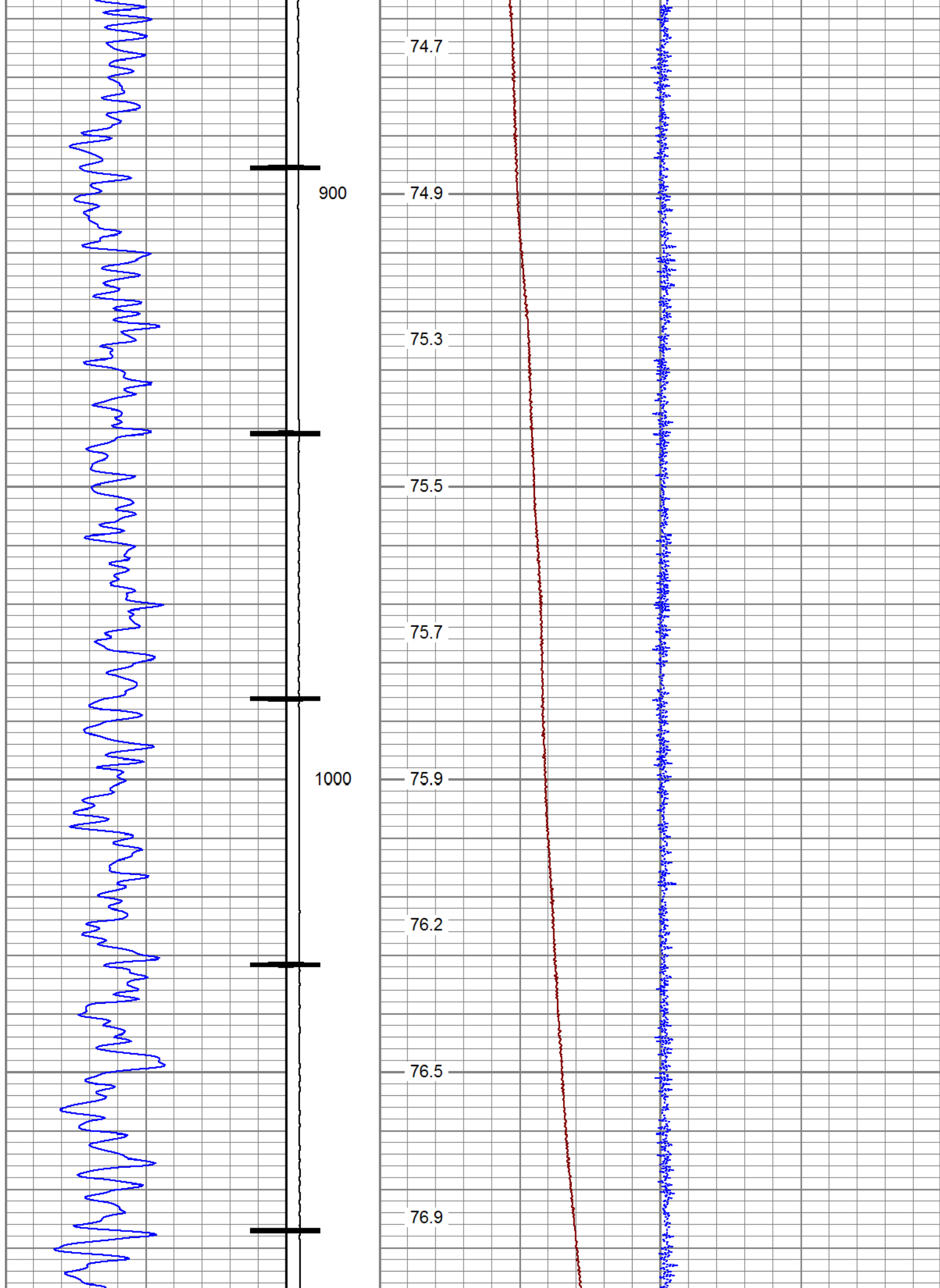
0	Gamma Ray (GAPI)	120	LTEN	50	TEMP (degF)	70
	Casing Collar Locator		(lb)	-1	DTMP (degF)	1
		0	2000	TEMP		
				(degF)		

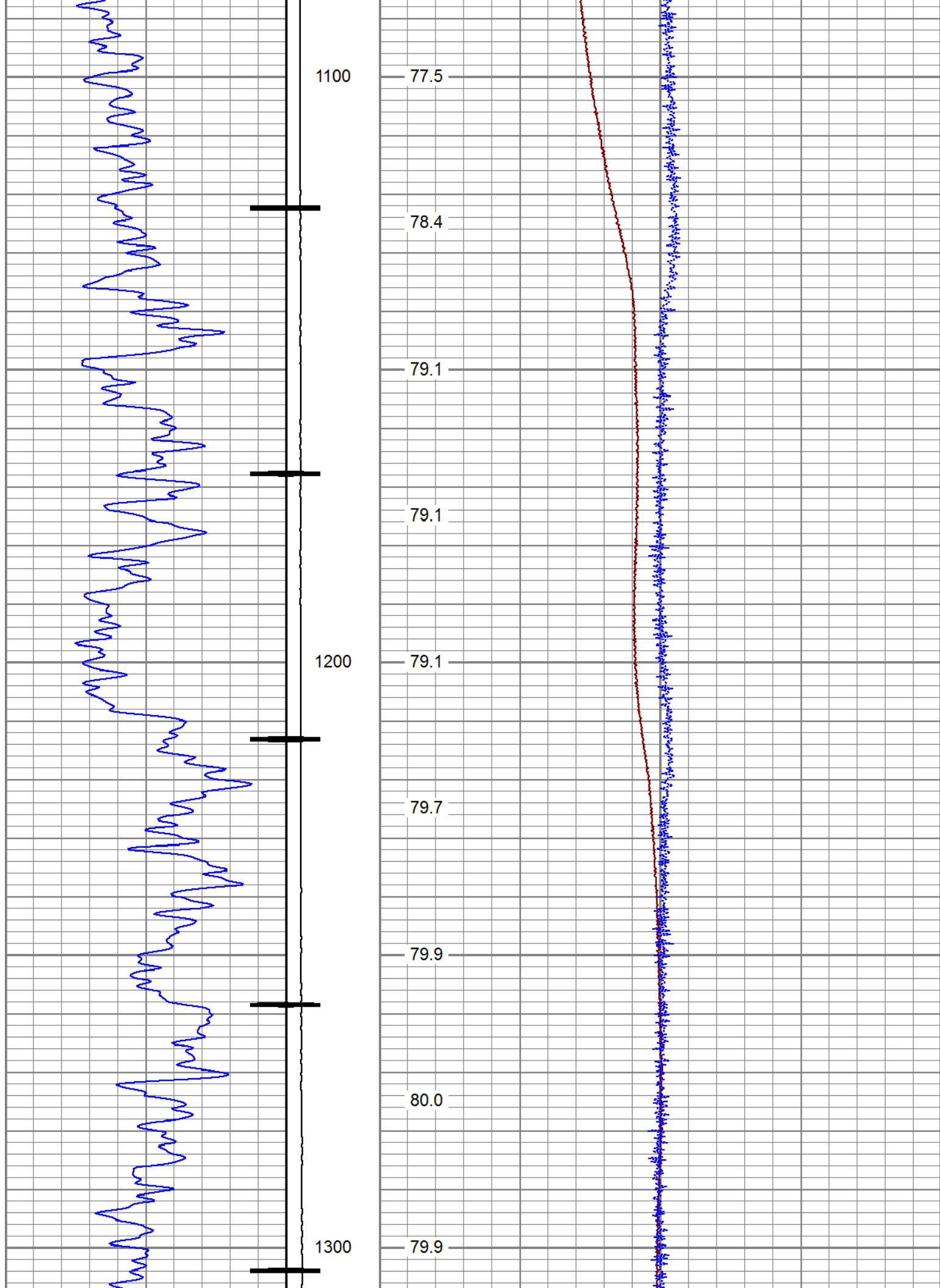


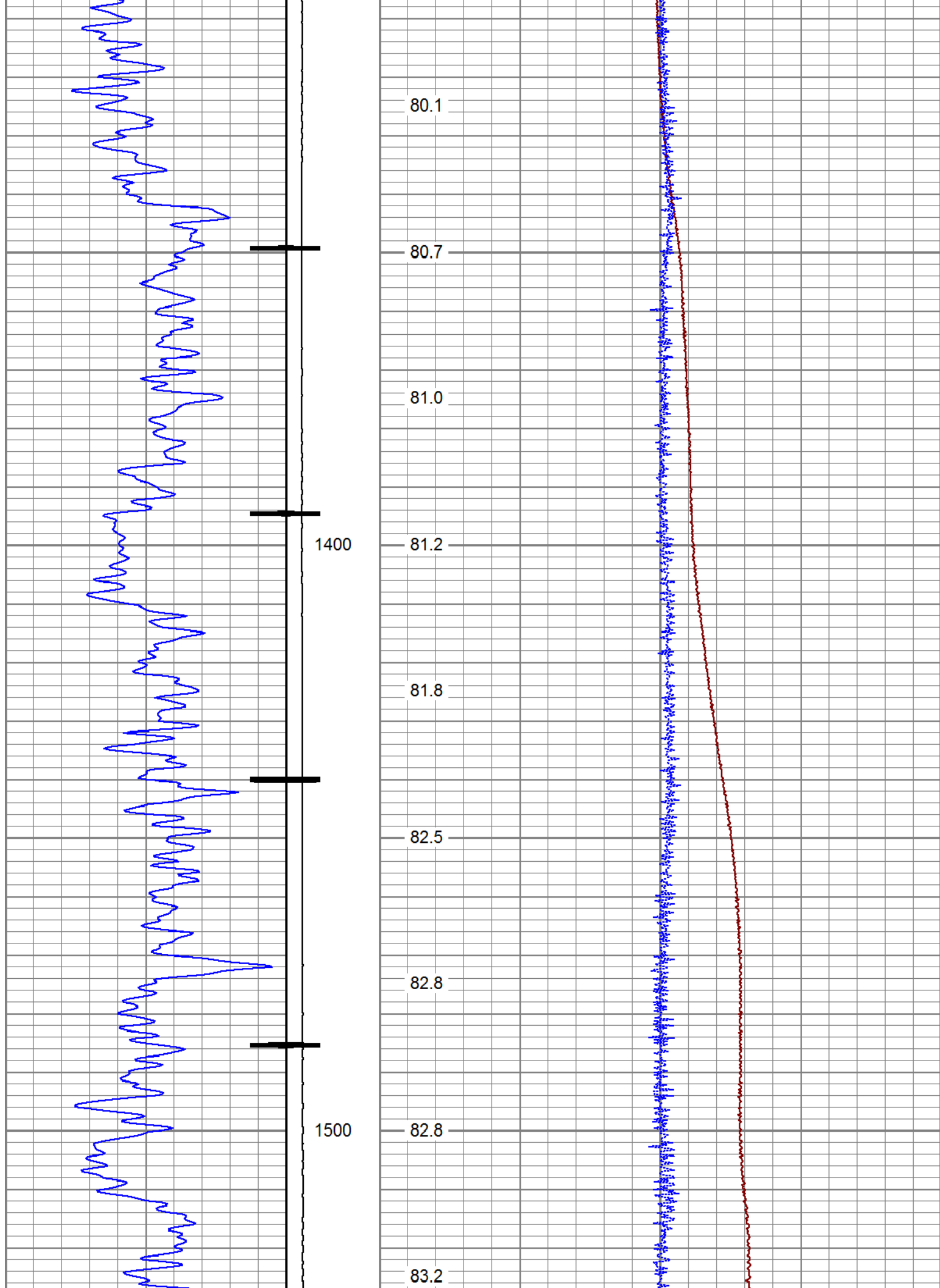


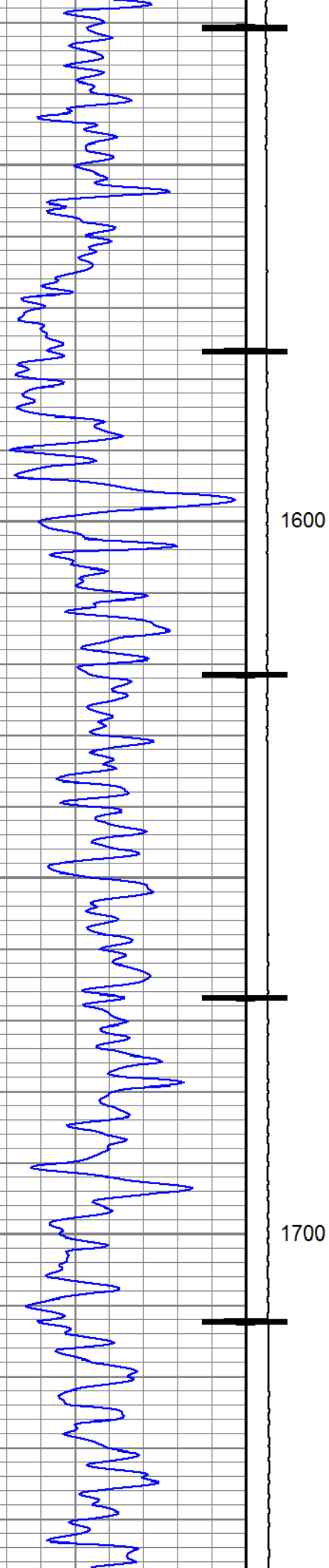












83.6

83.7

83.9

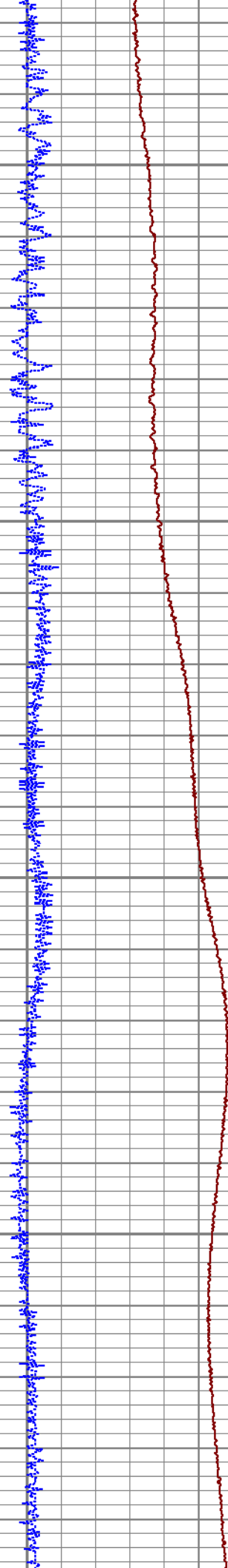
84.7

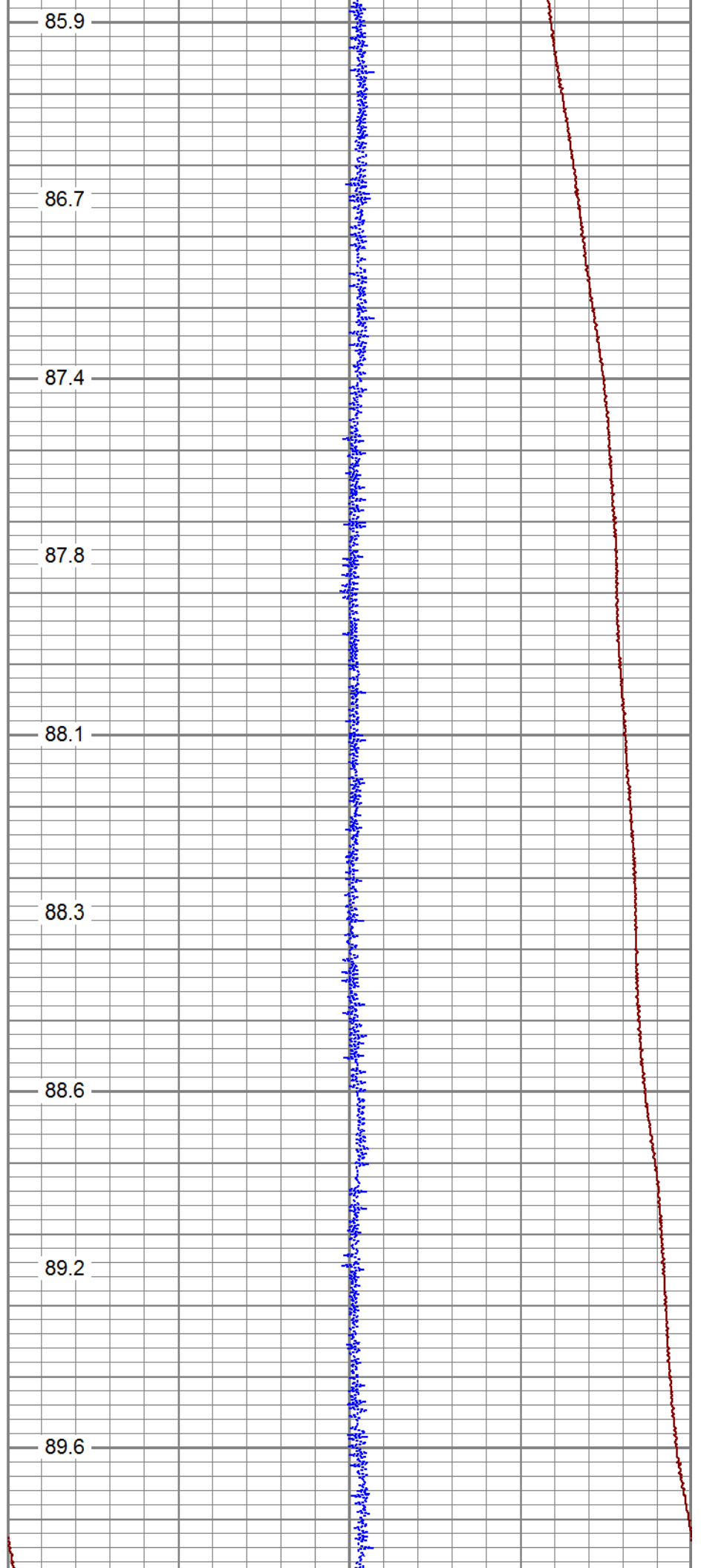
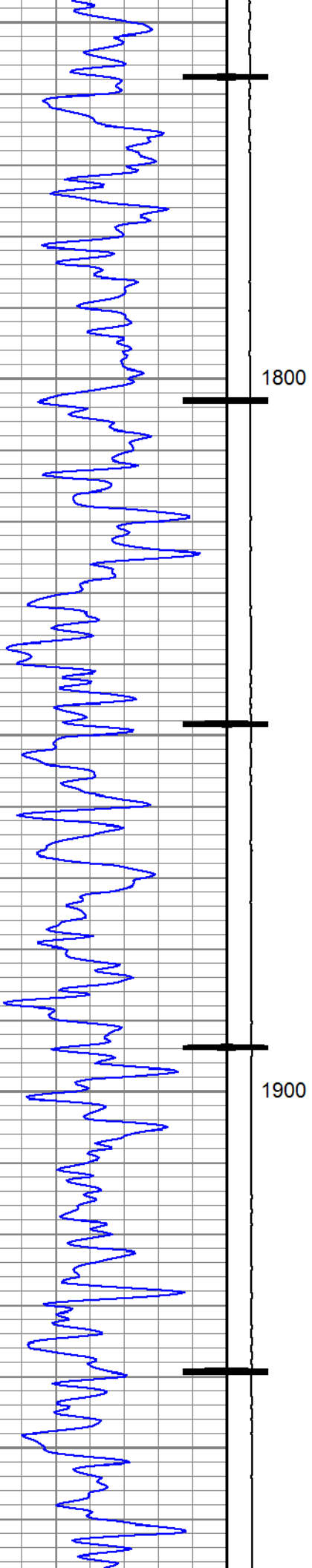
85.1

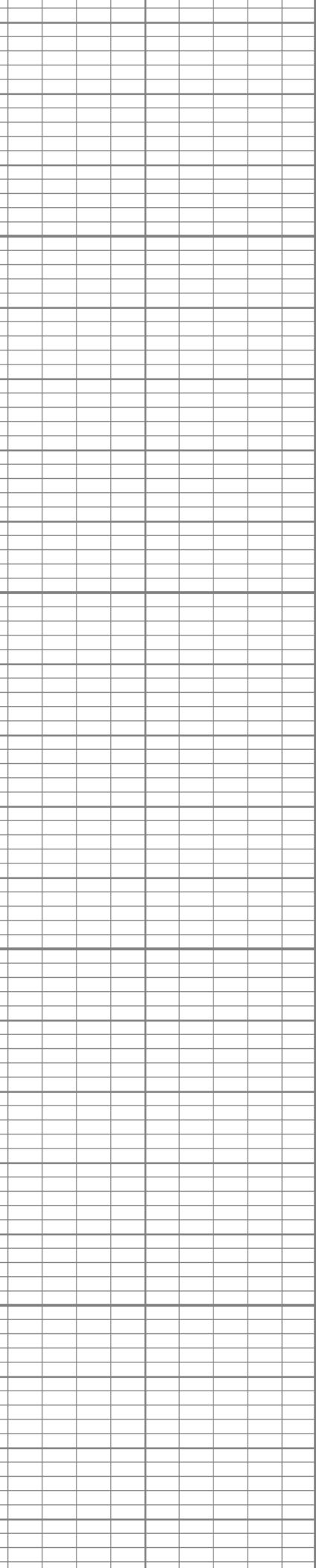
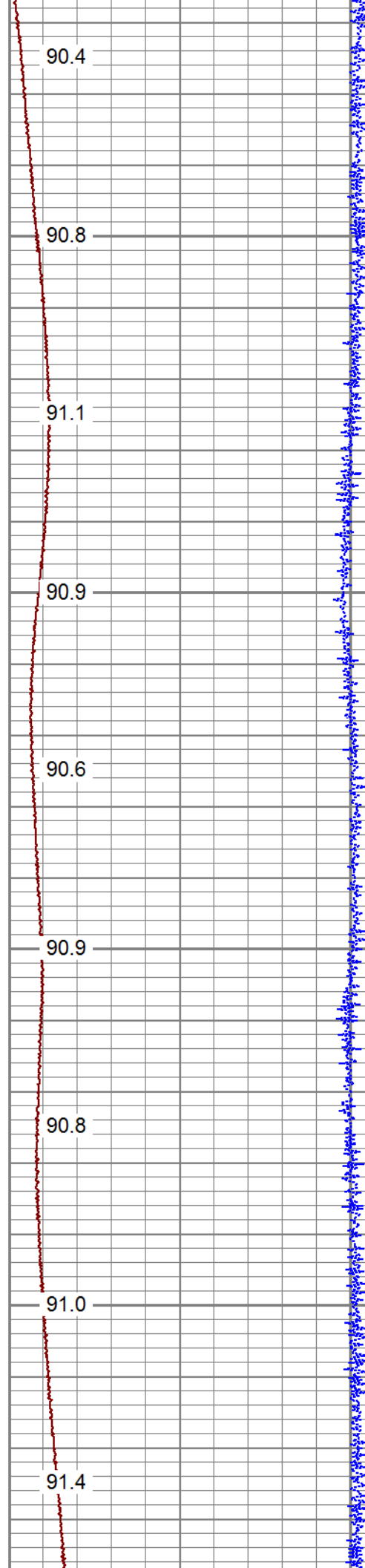
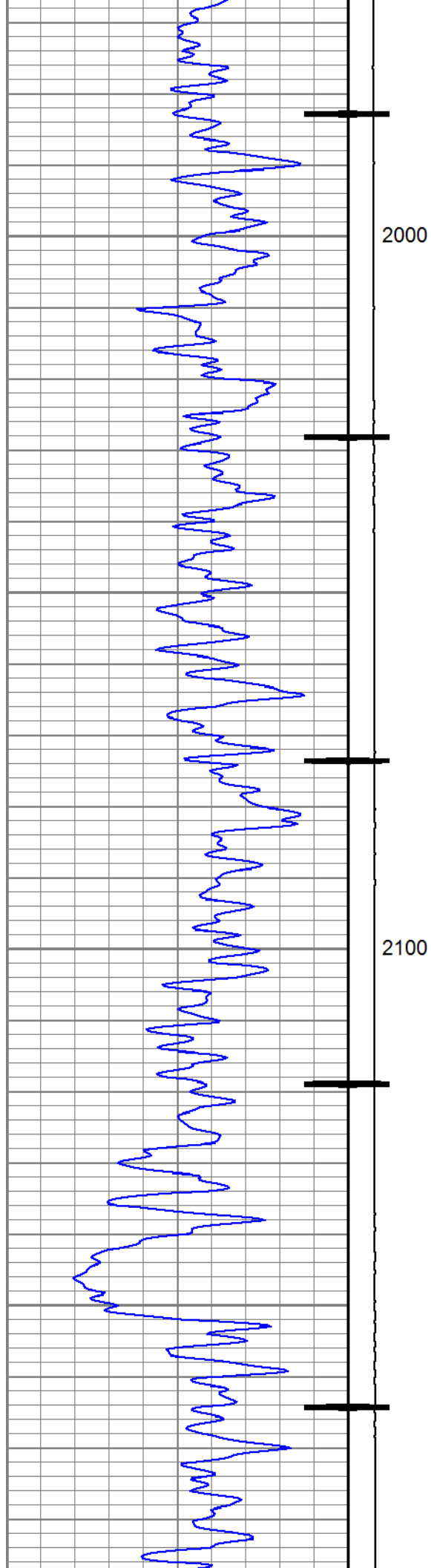
85.8

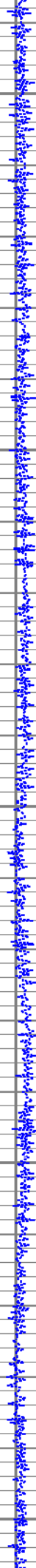
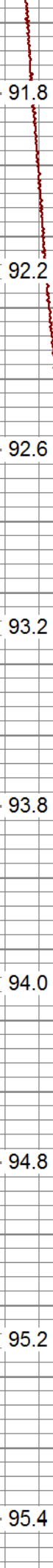
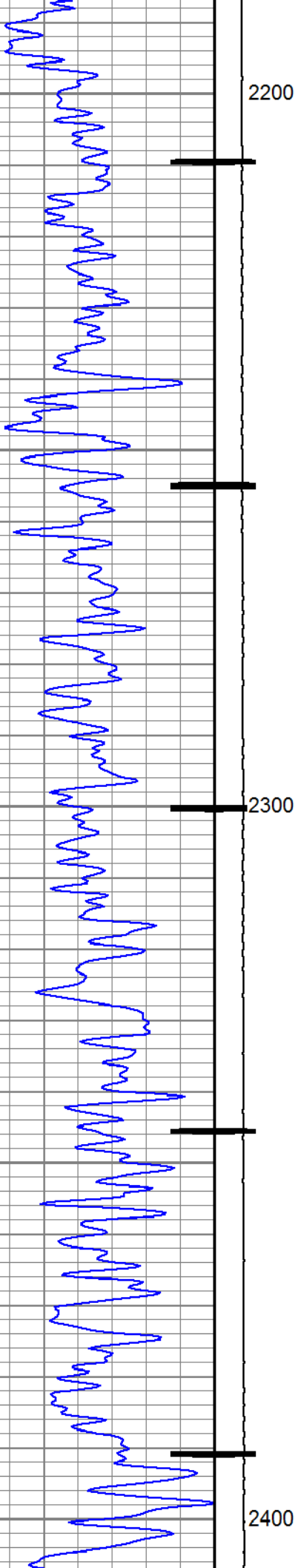
85.4

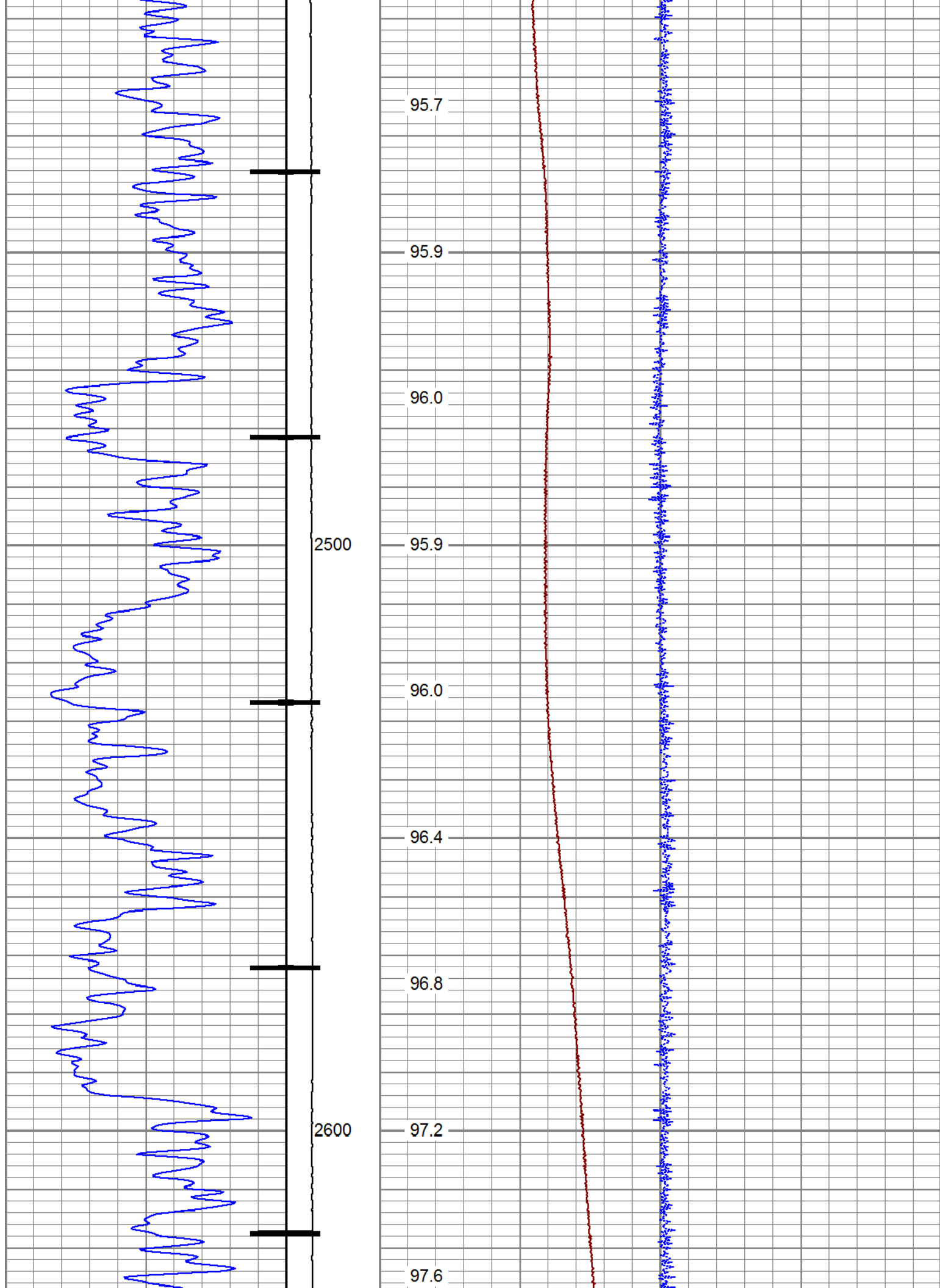
85.4

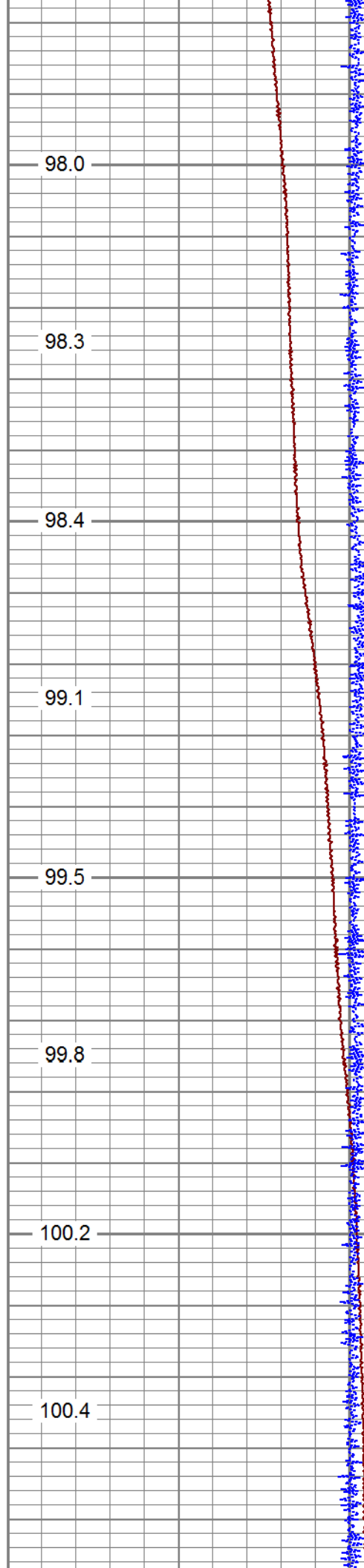
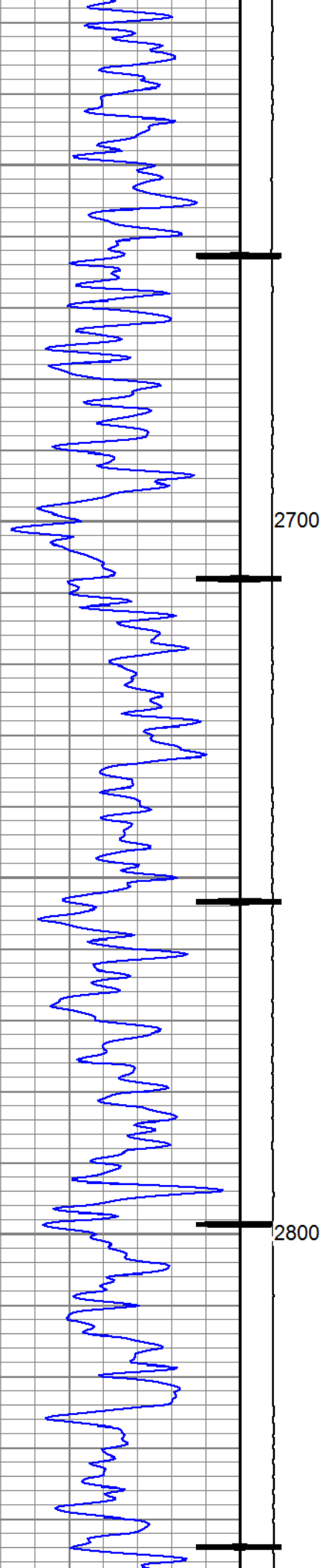


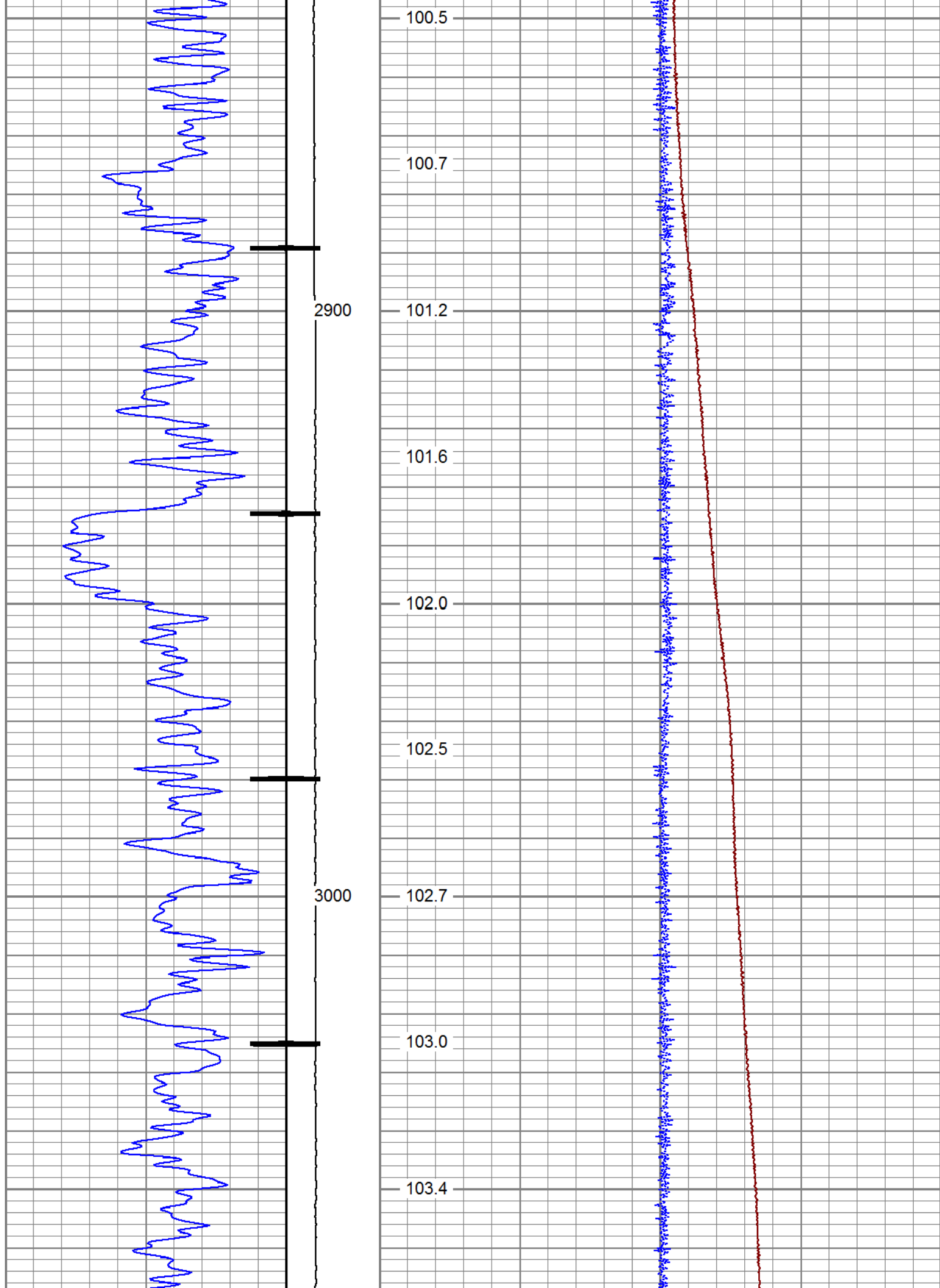


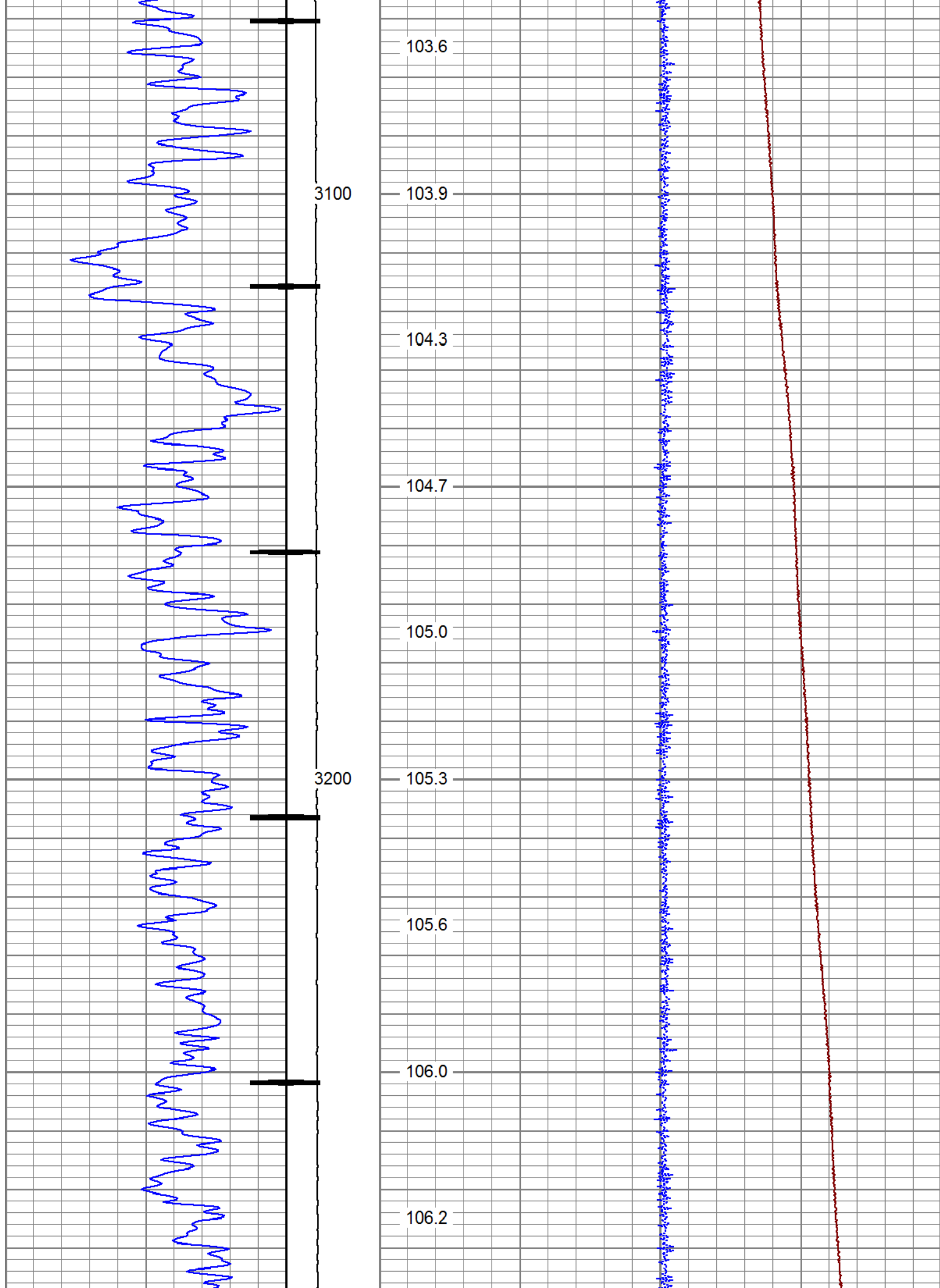


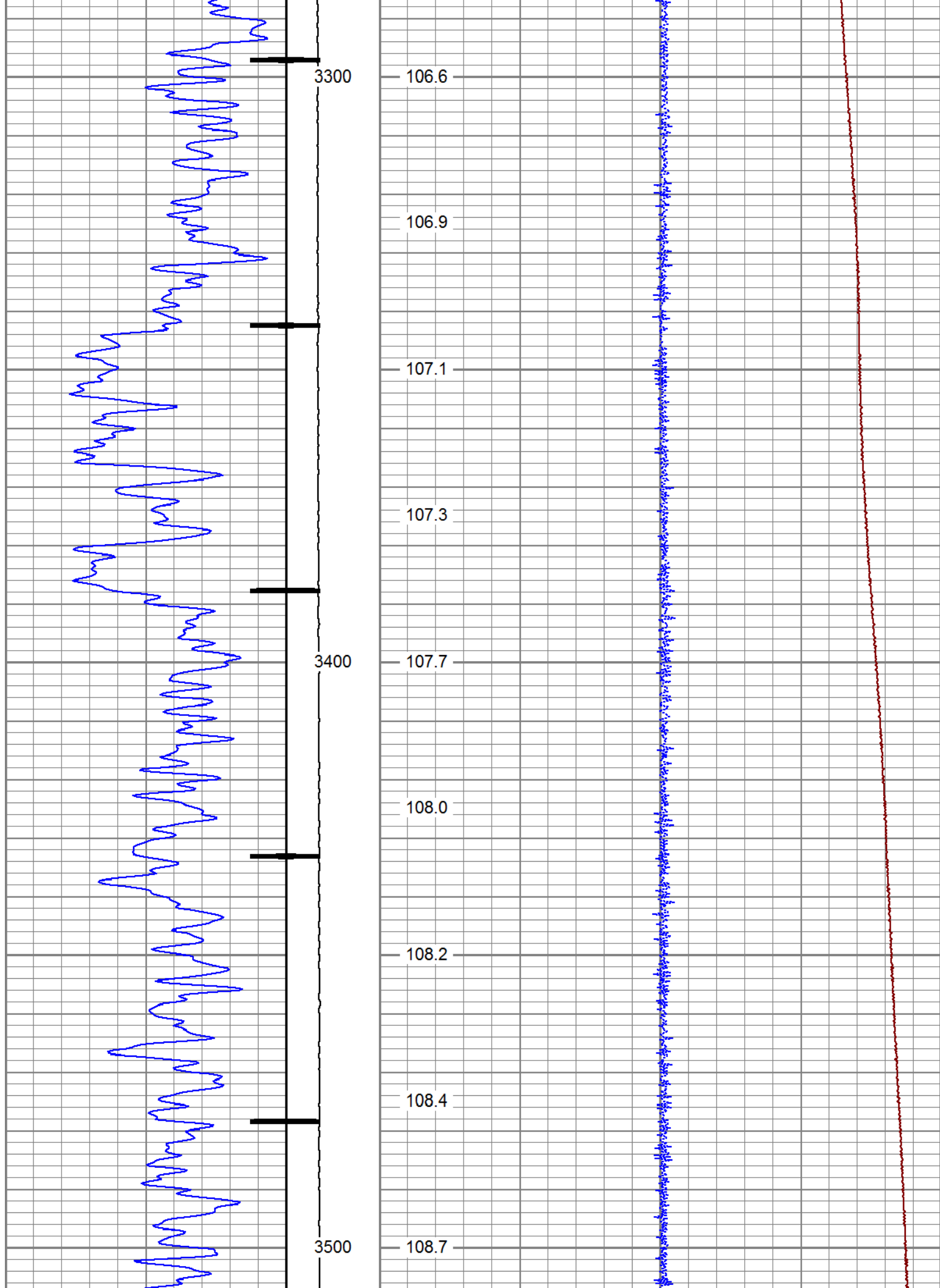


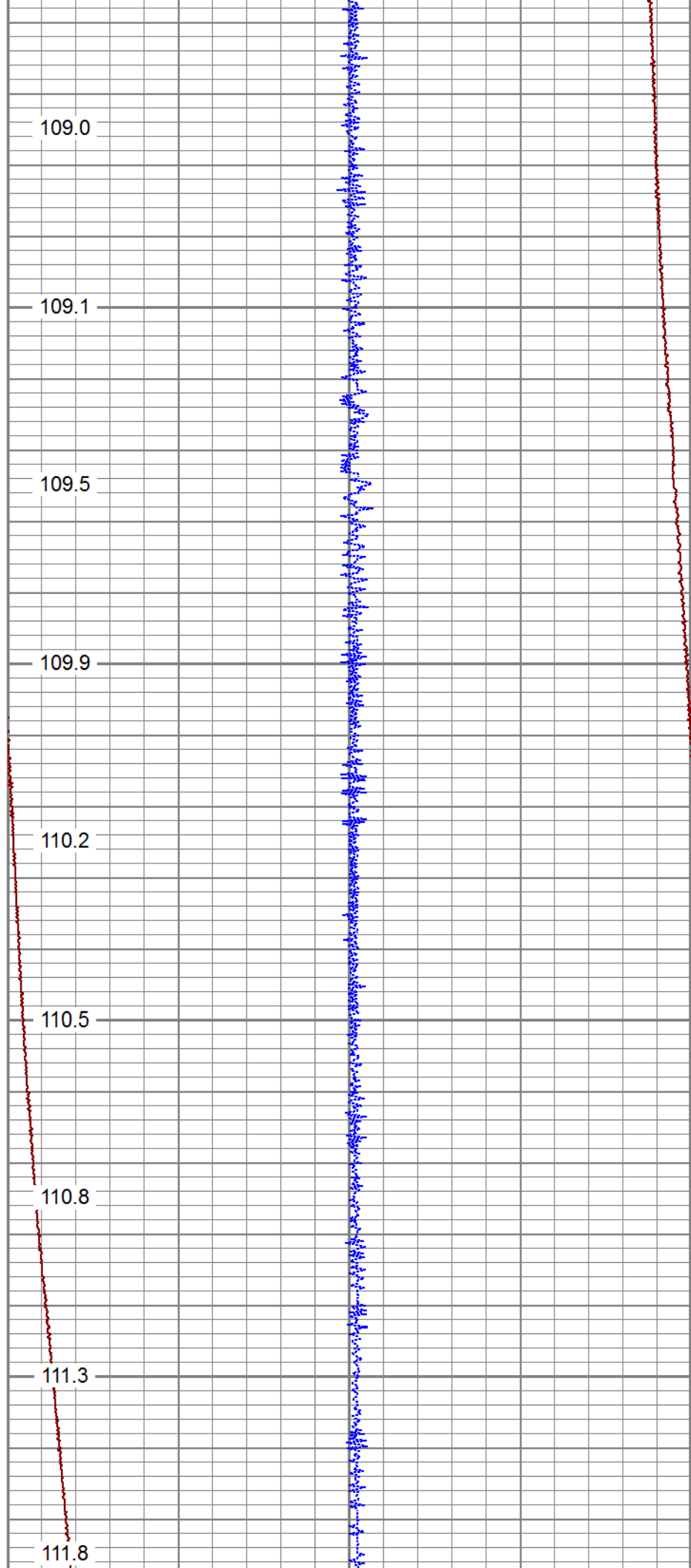
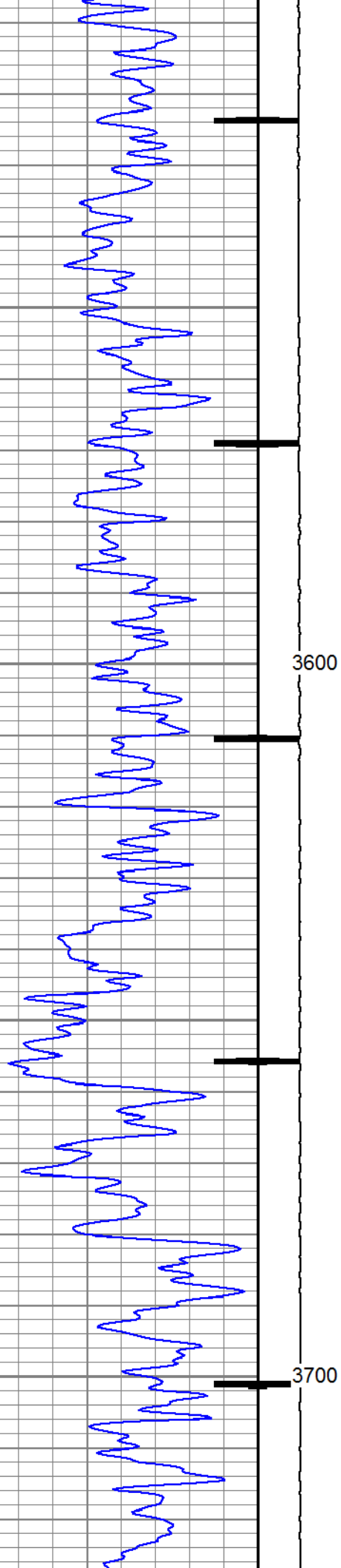


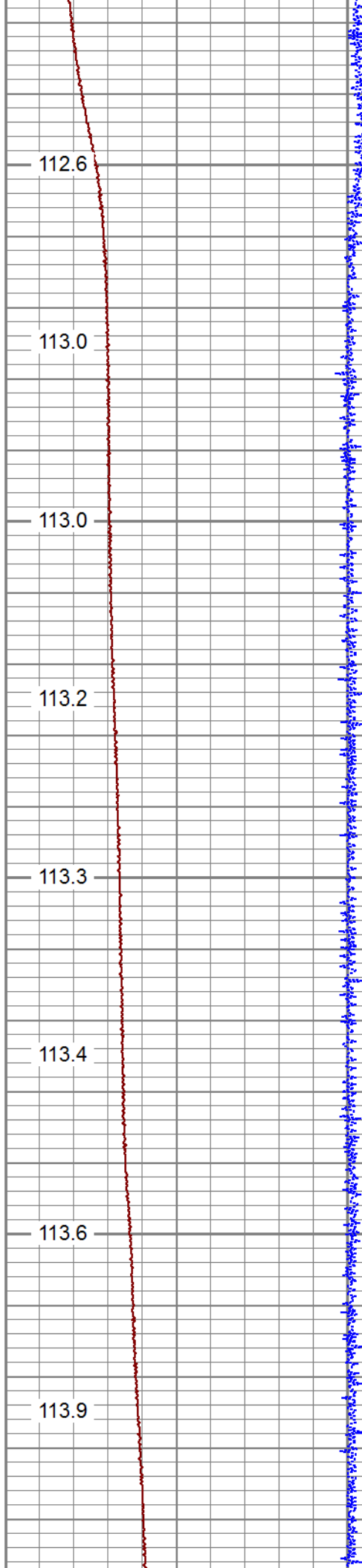
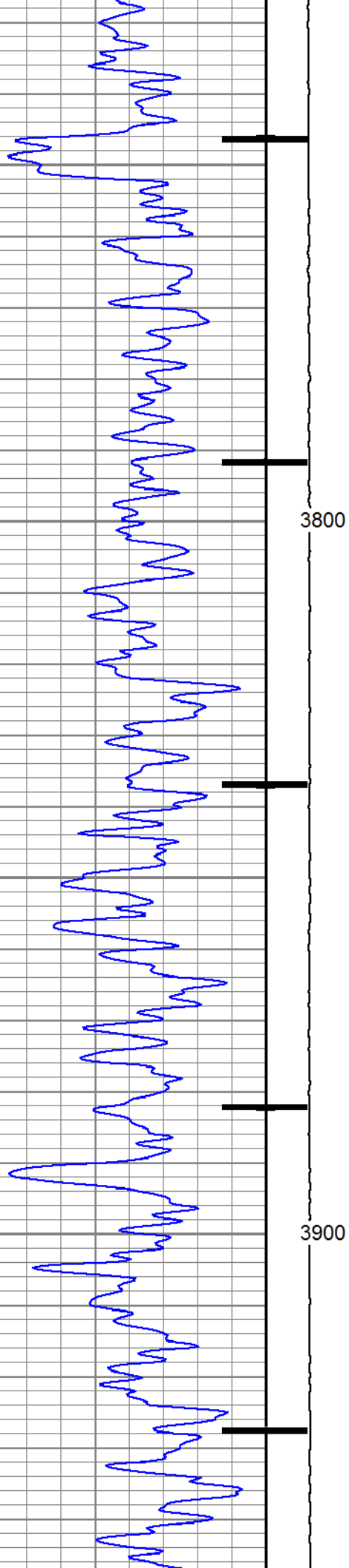


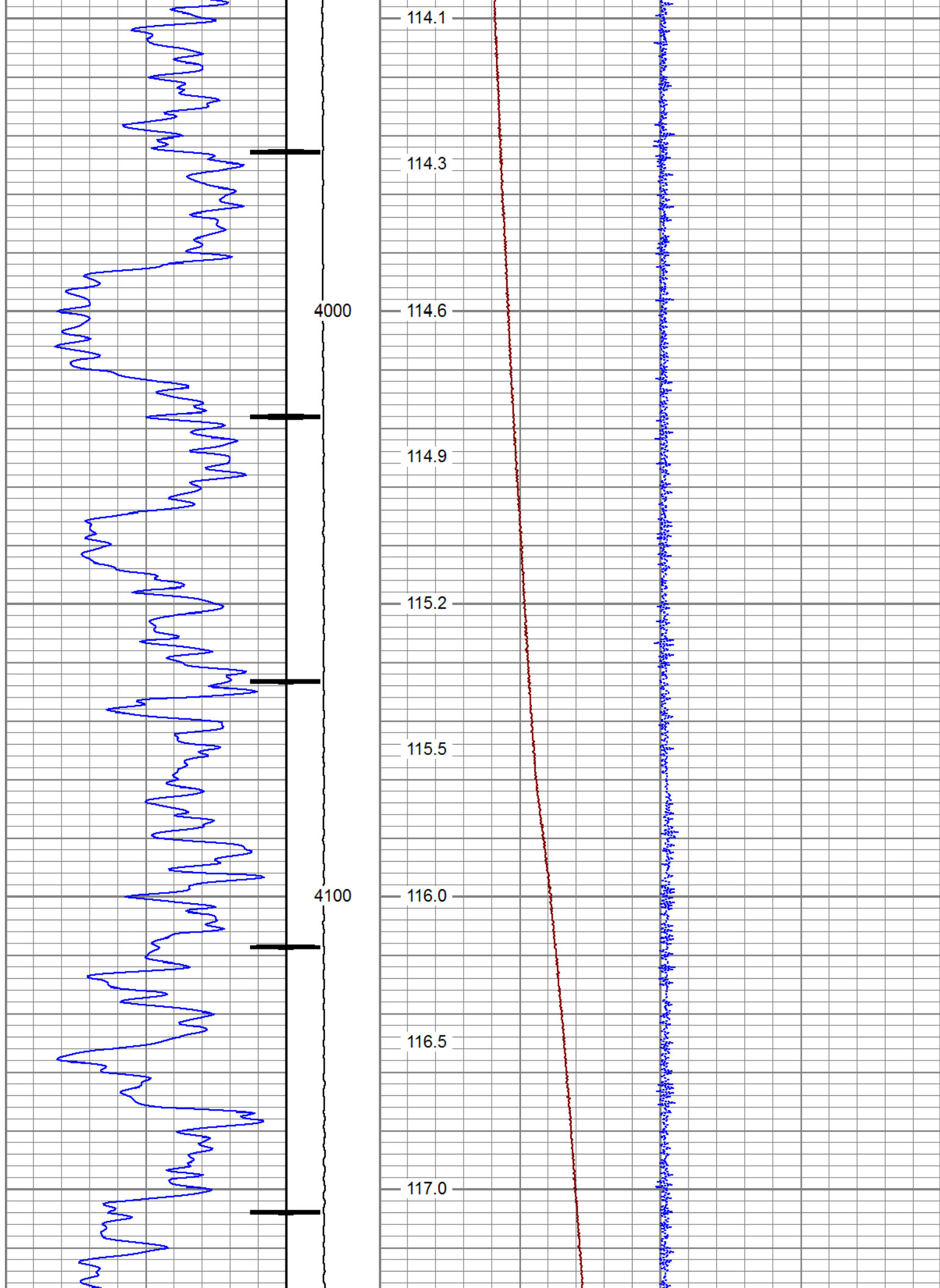


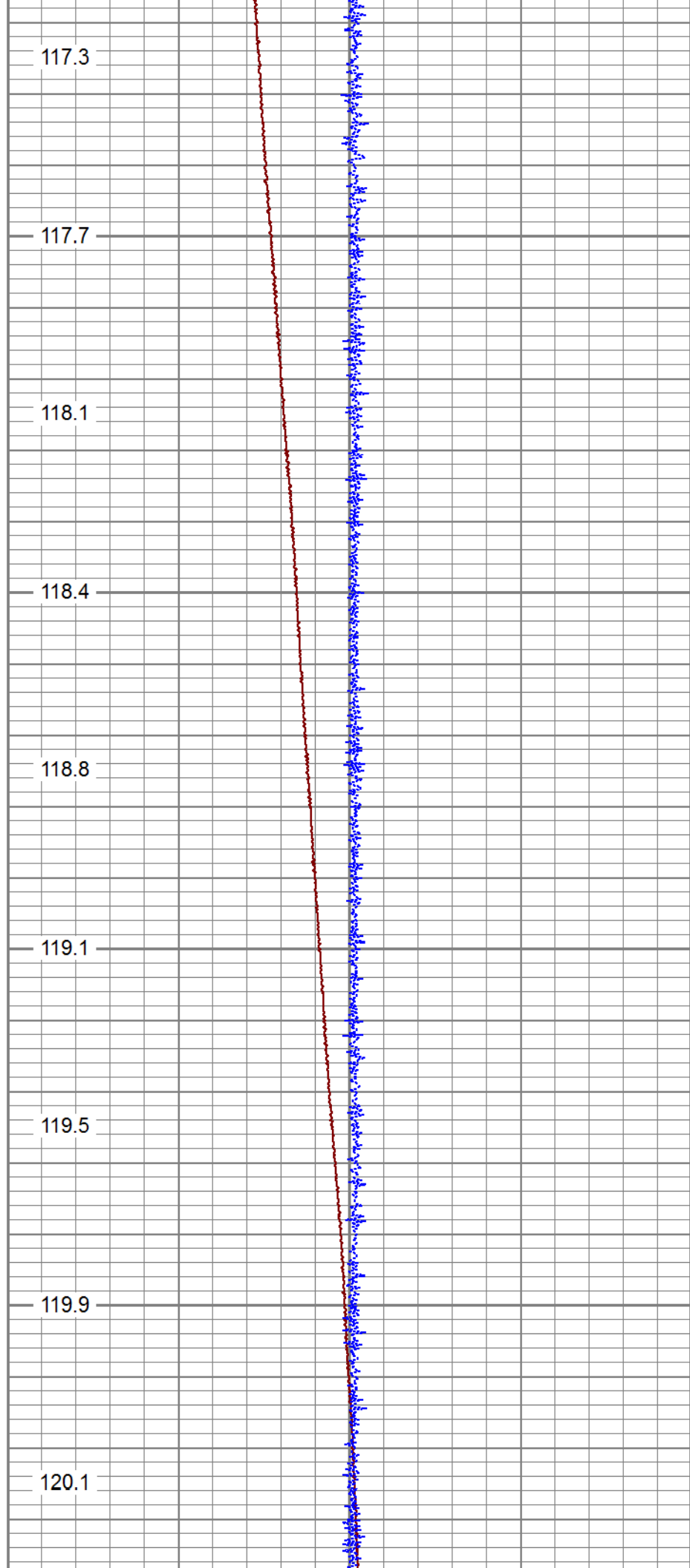
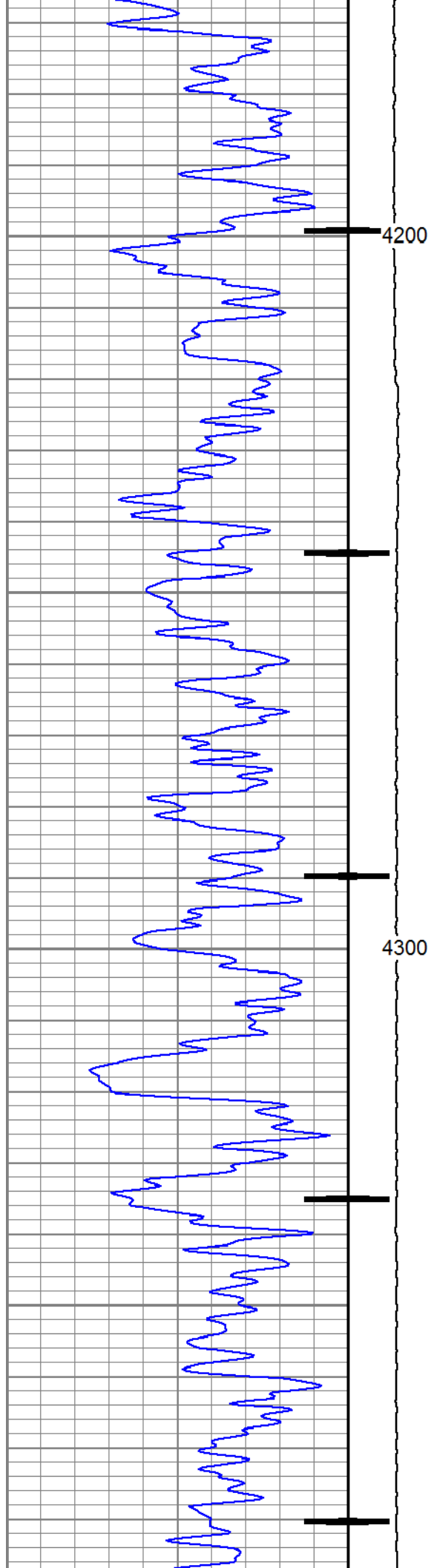


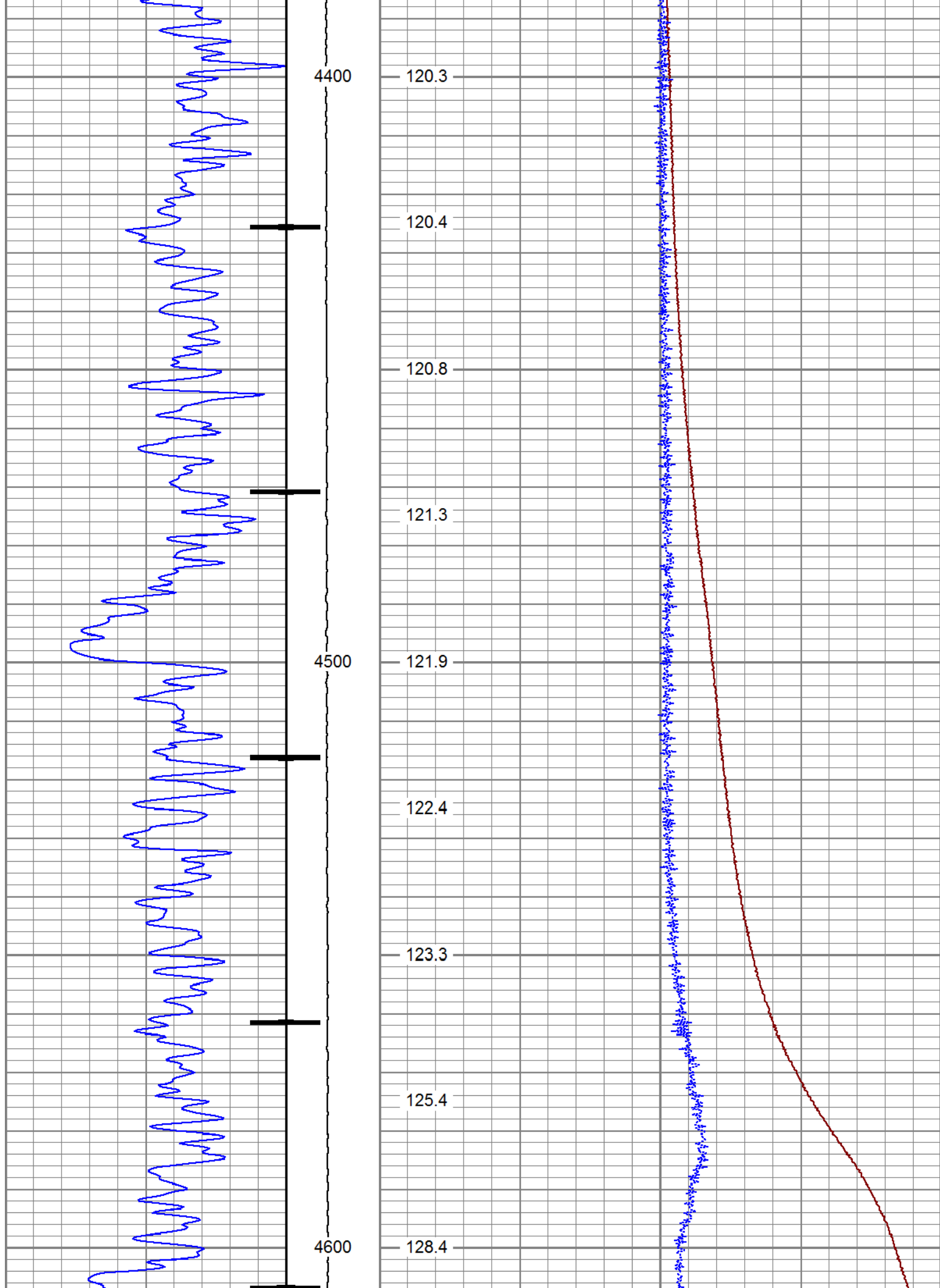


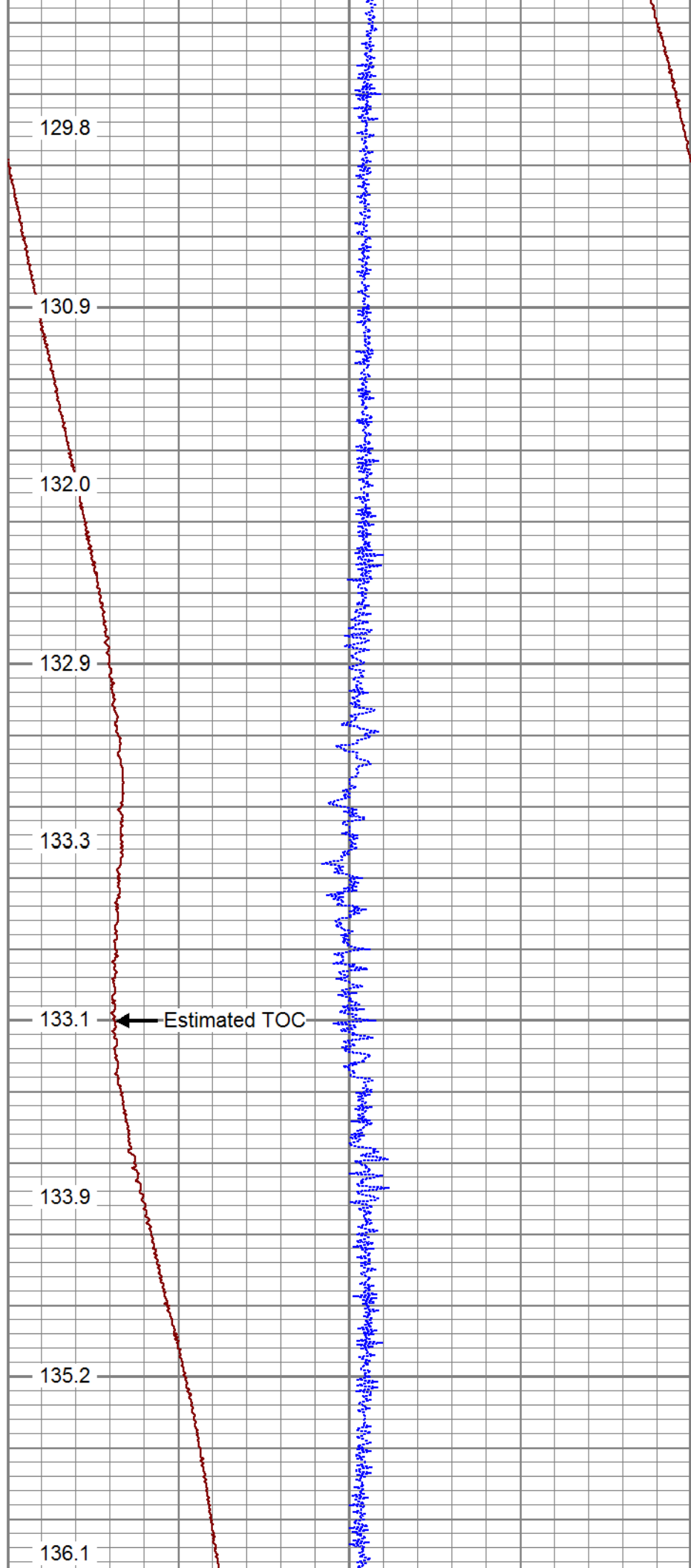
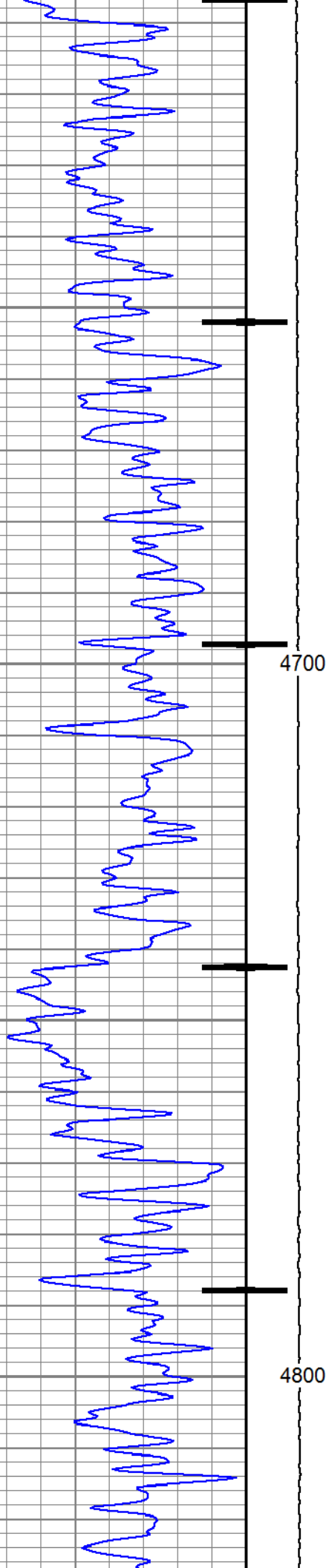


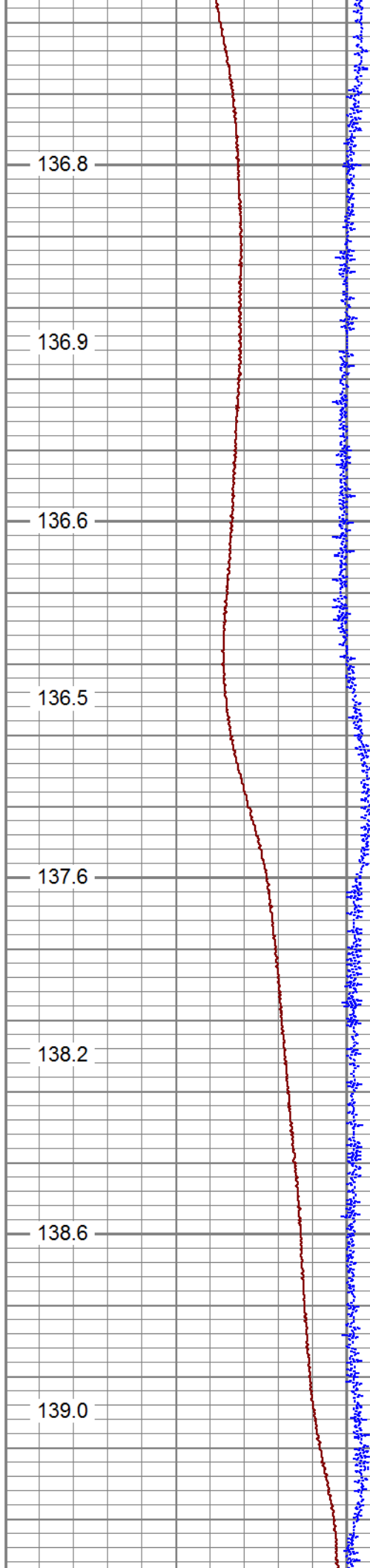
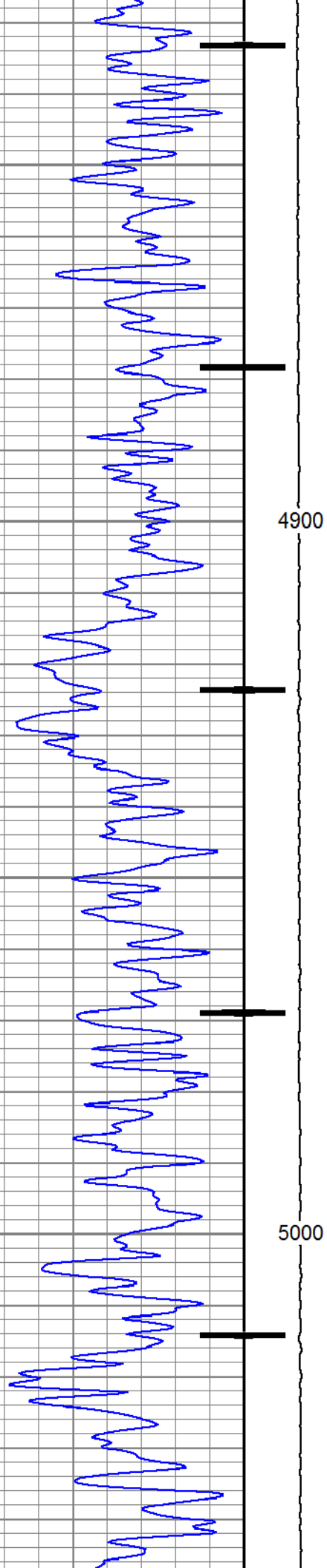


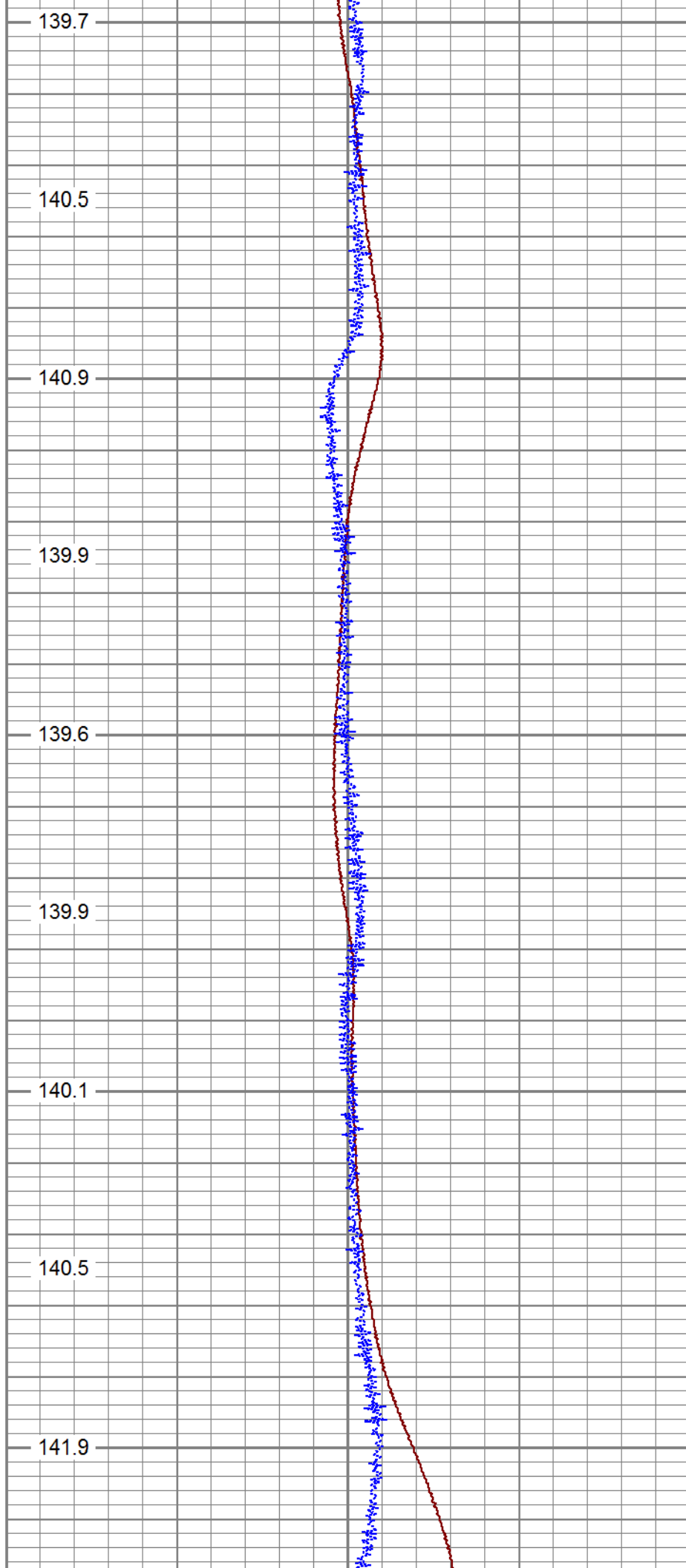
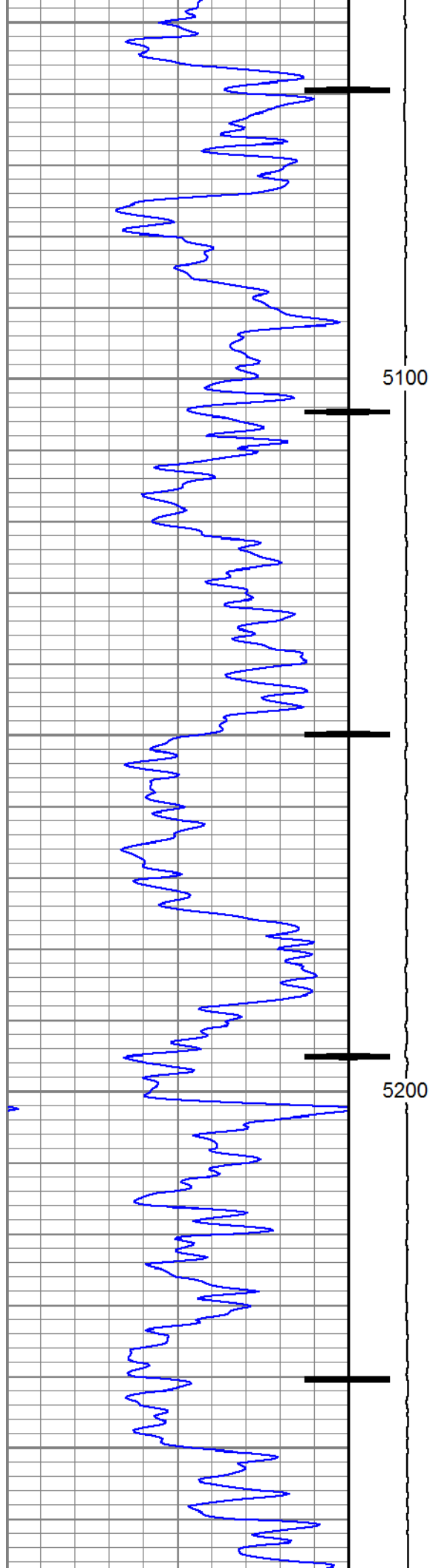


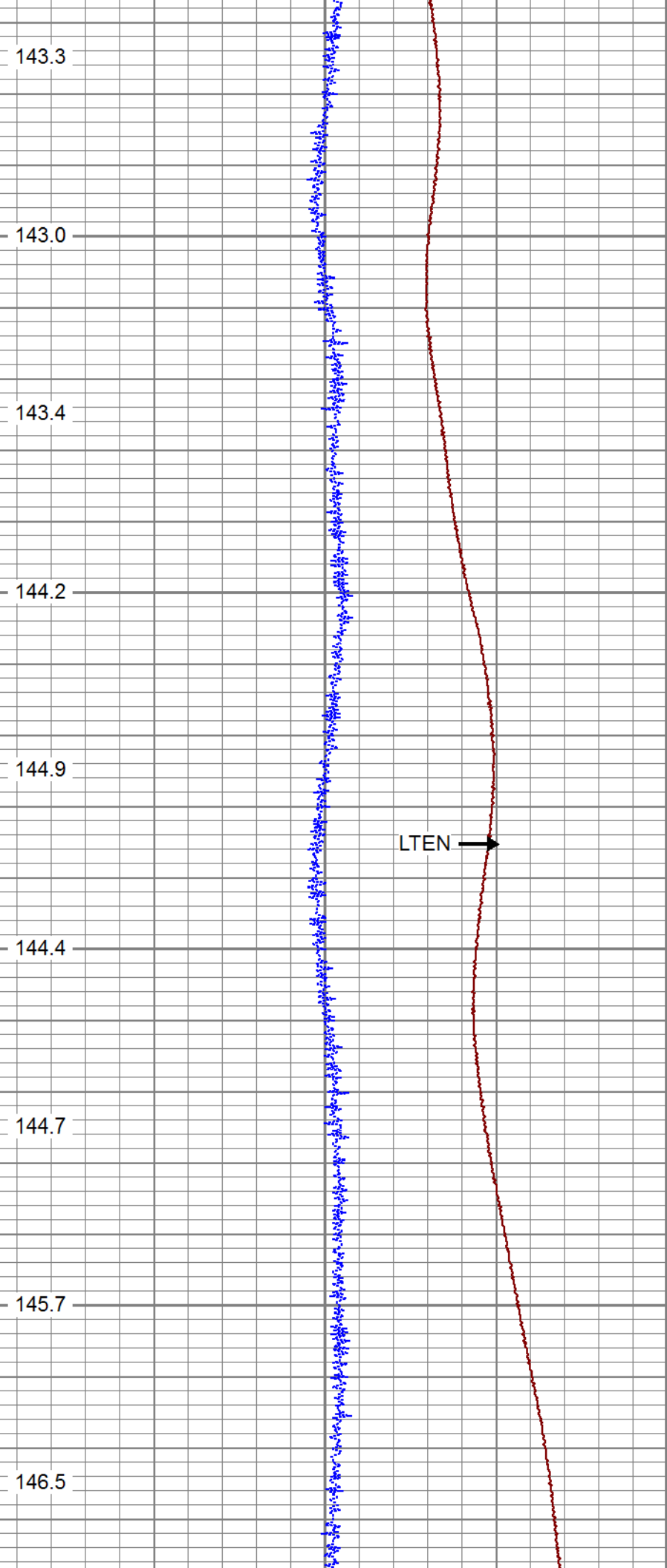
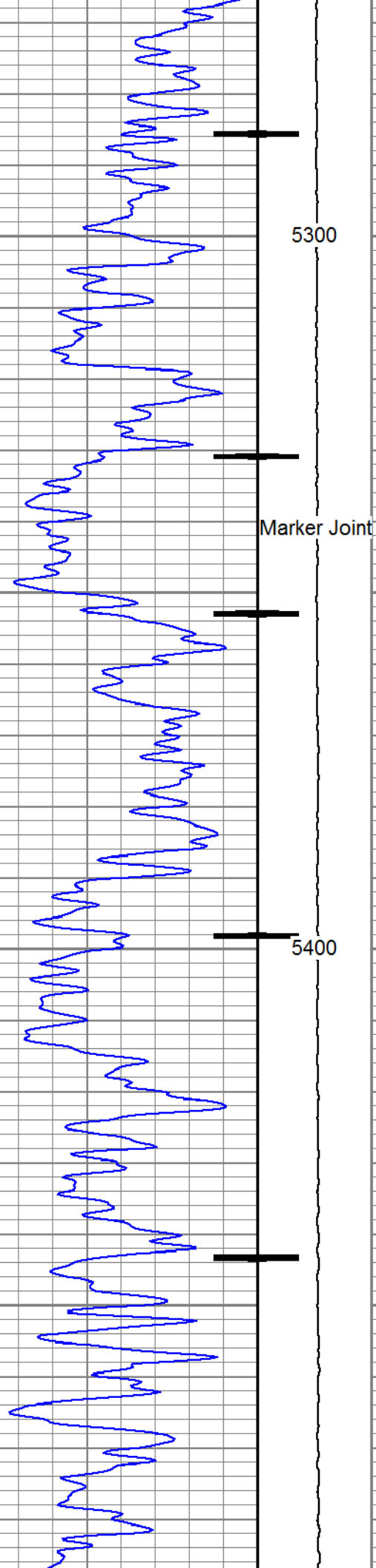


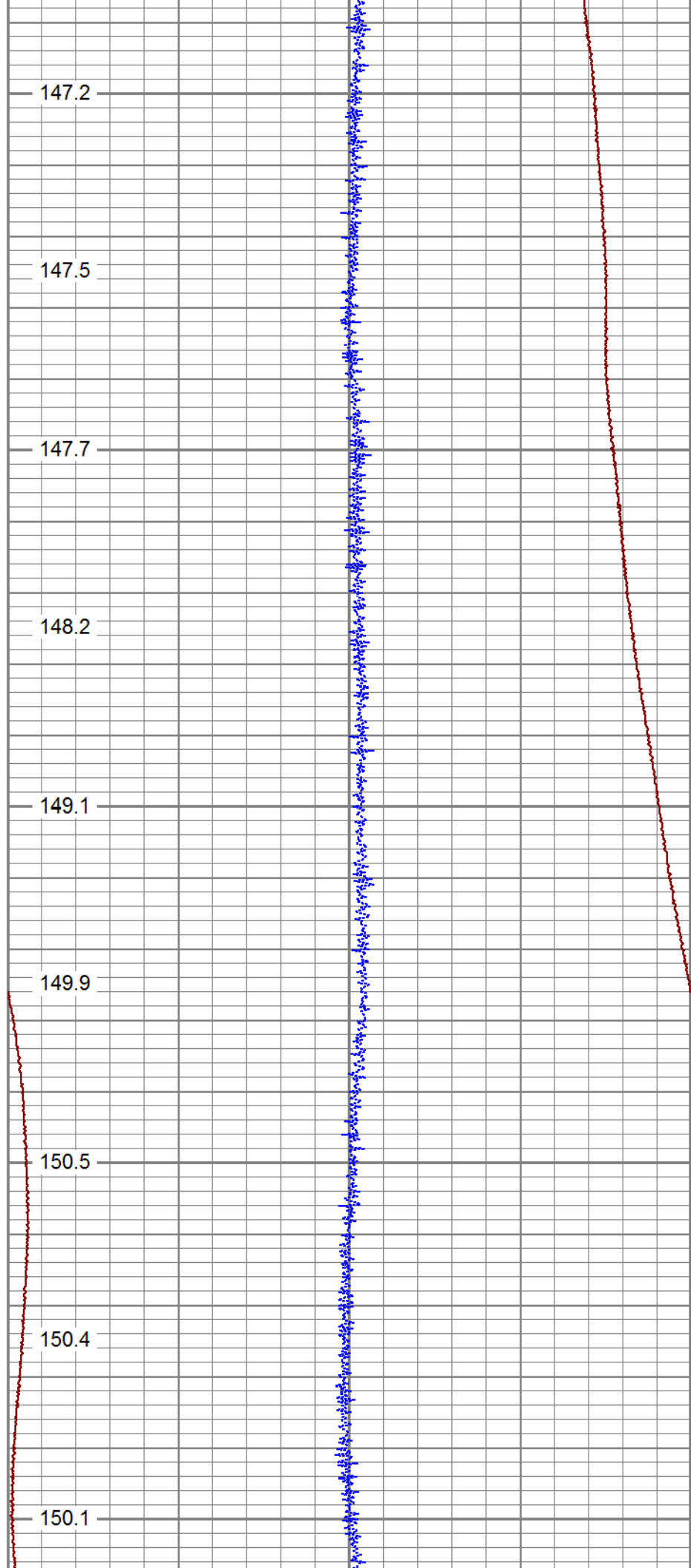
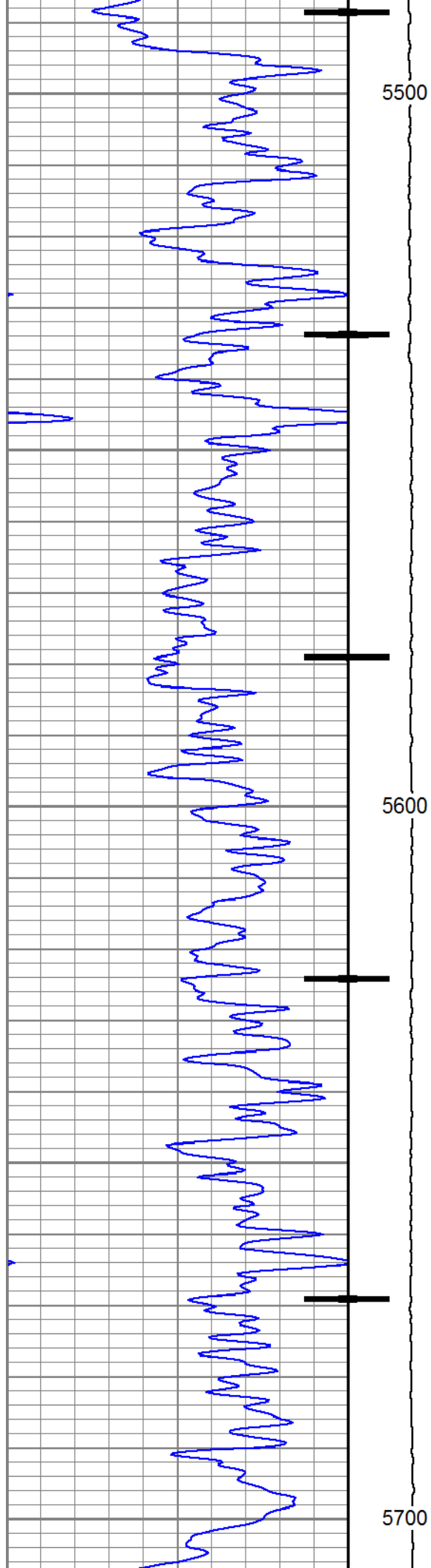


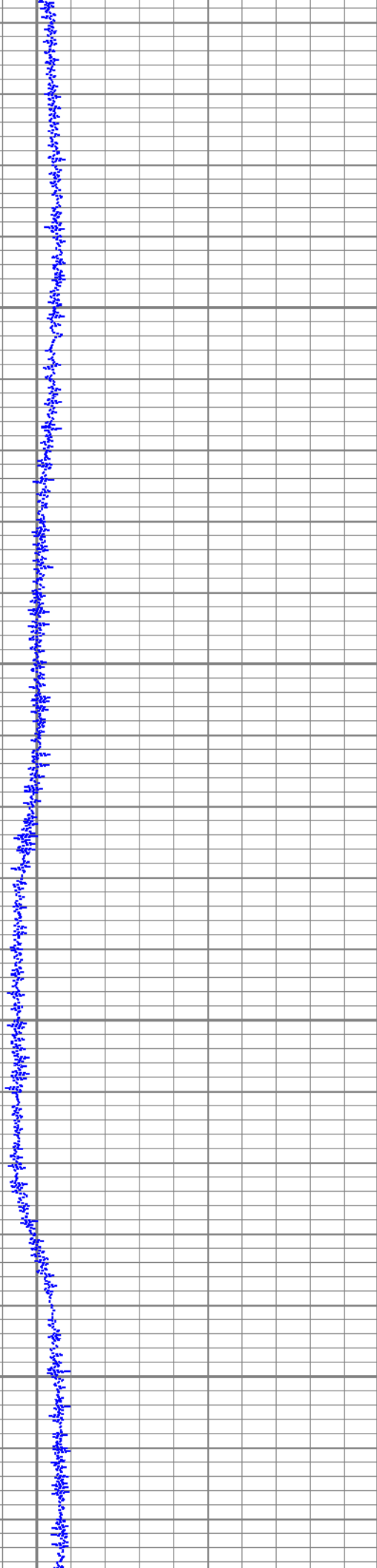
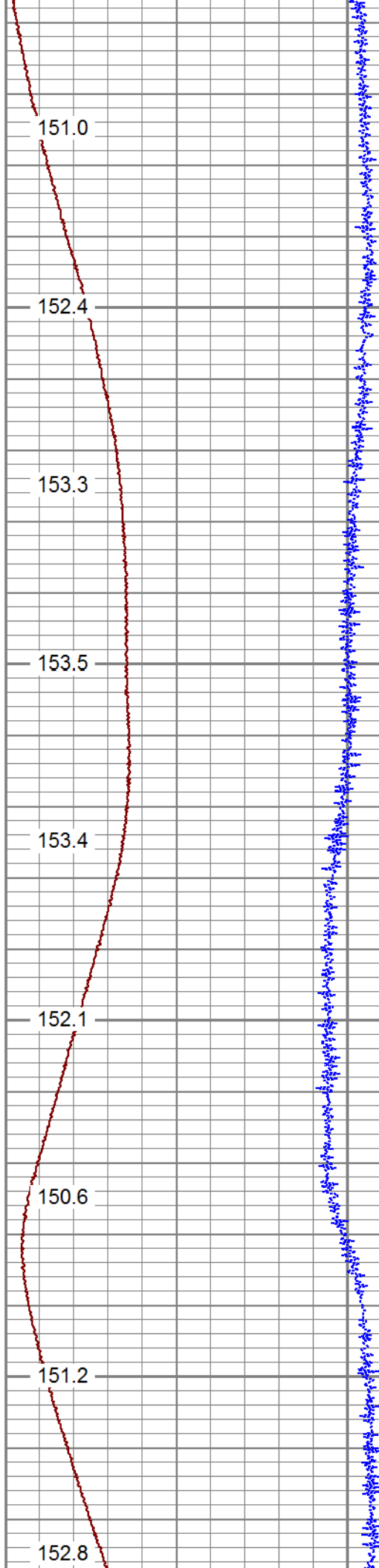
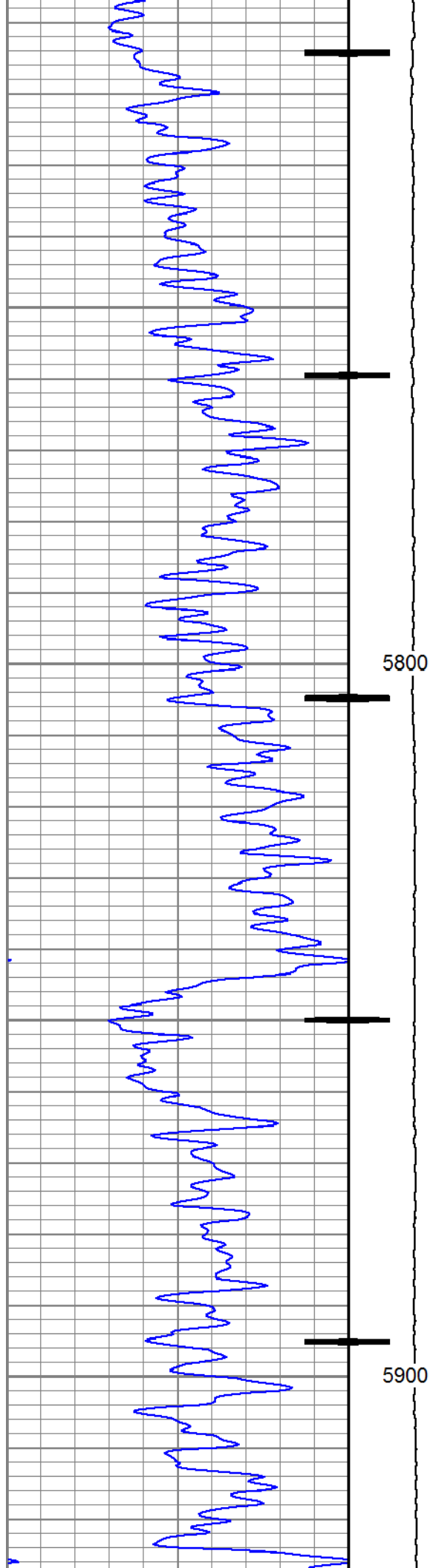


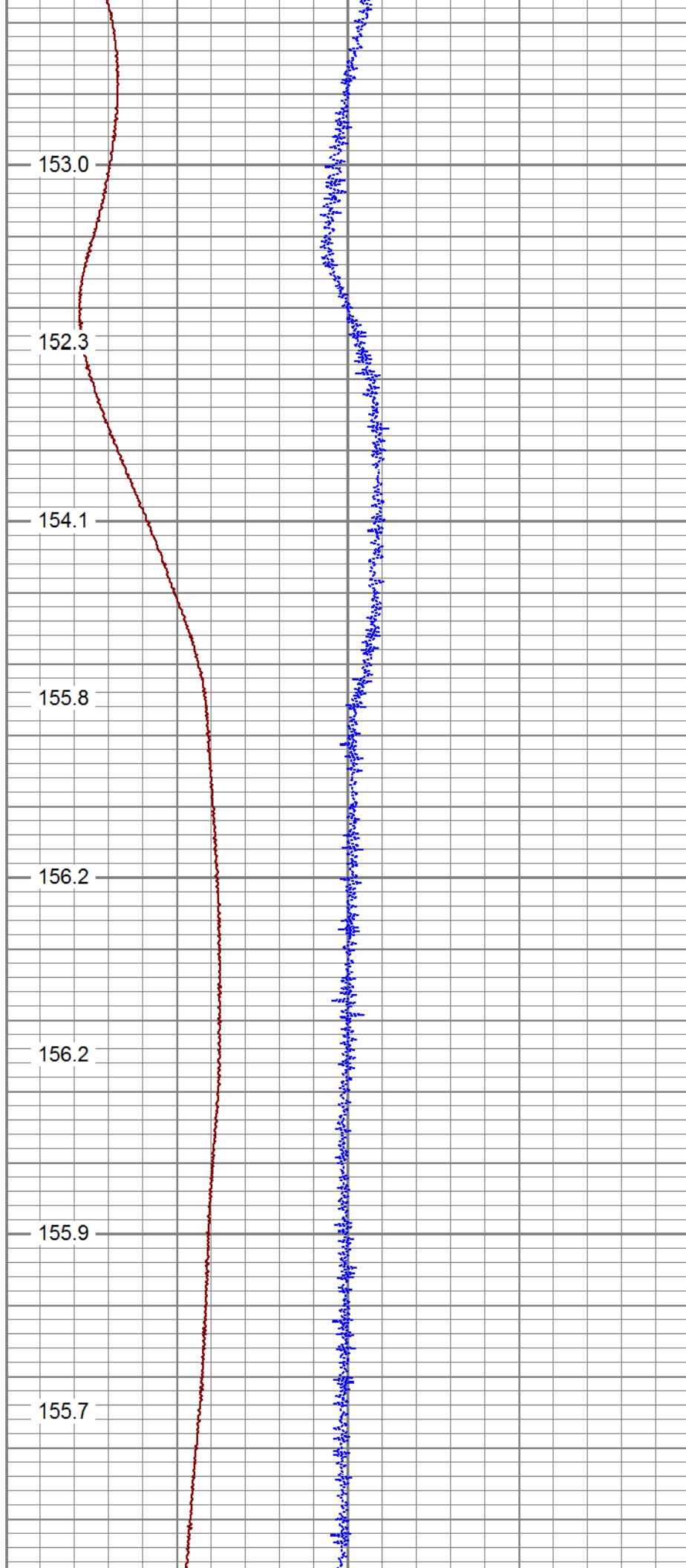
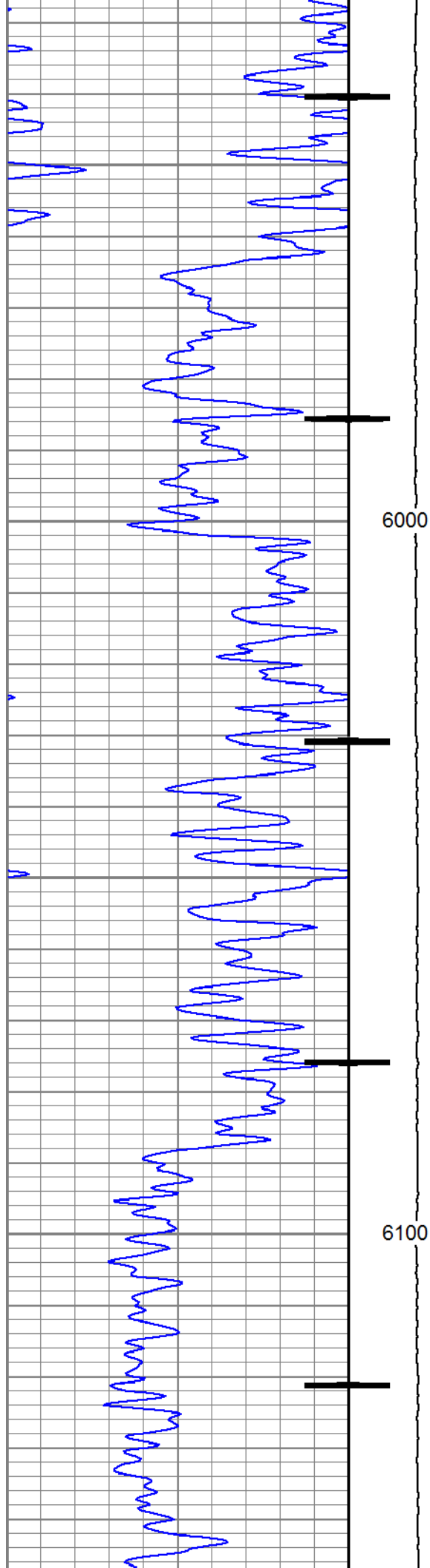


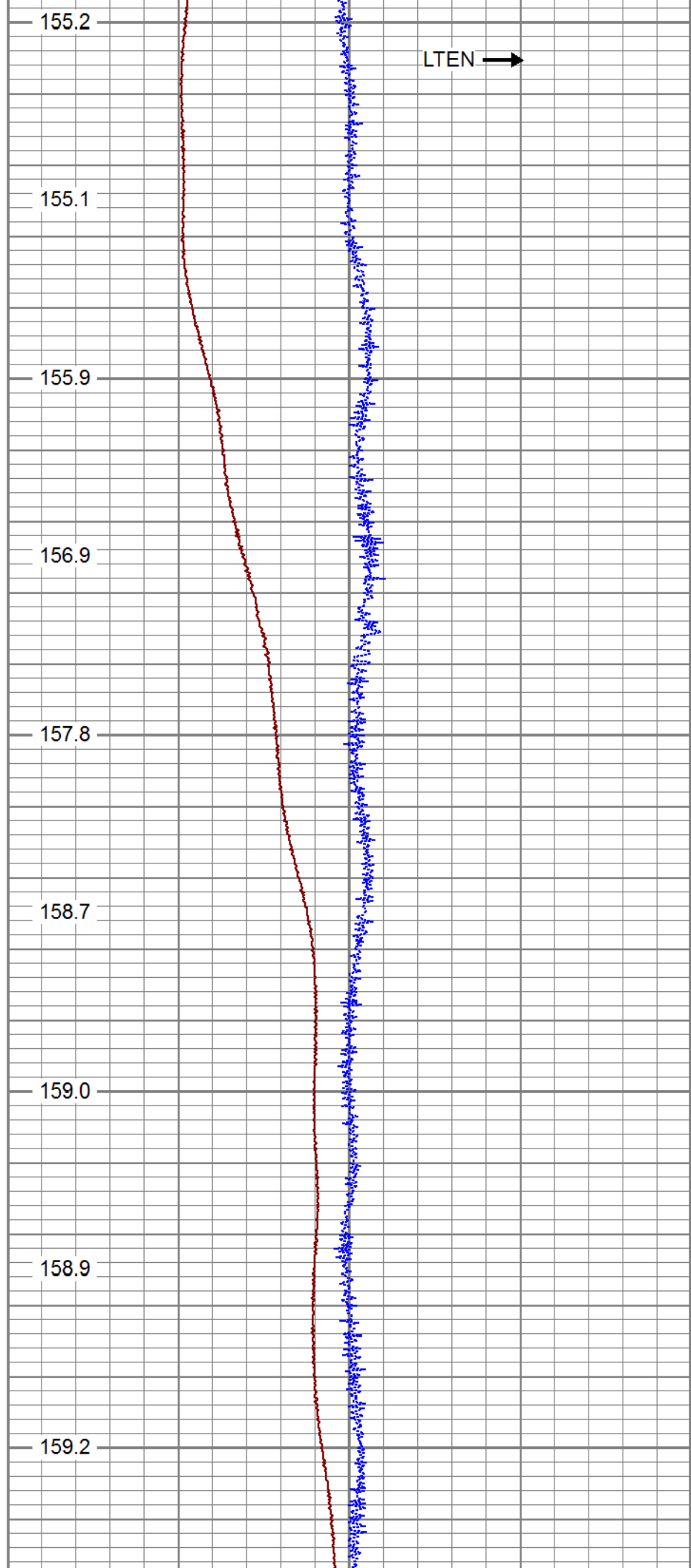
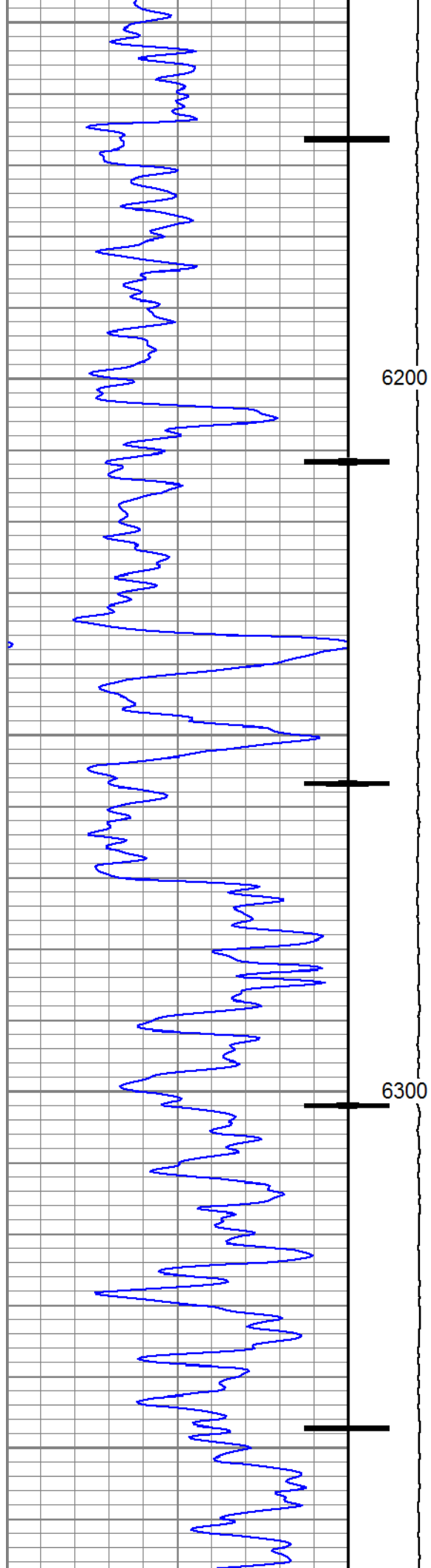


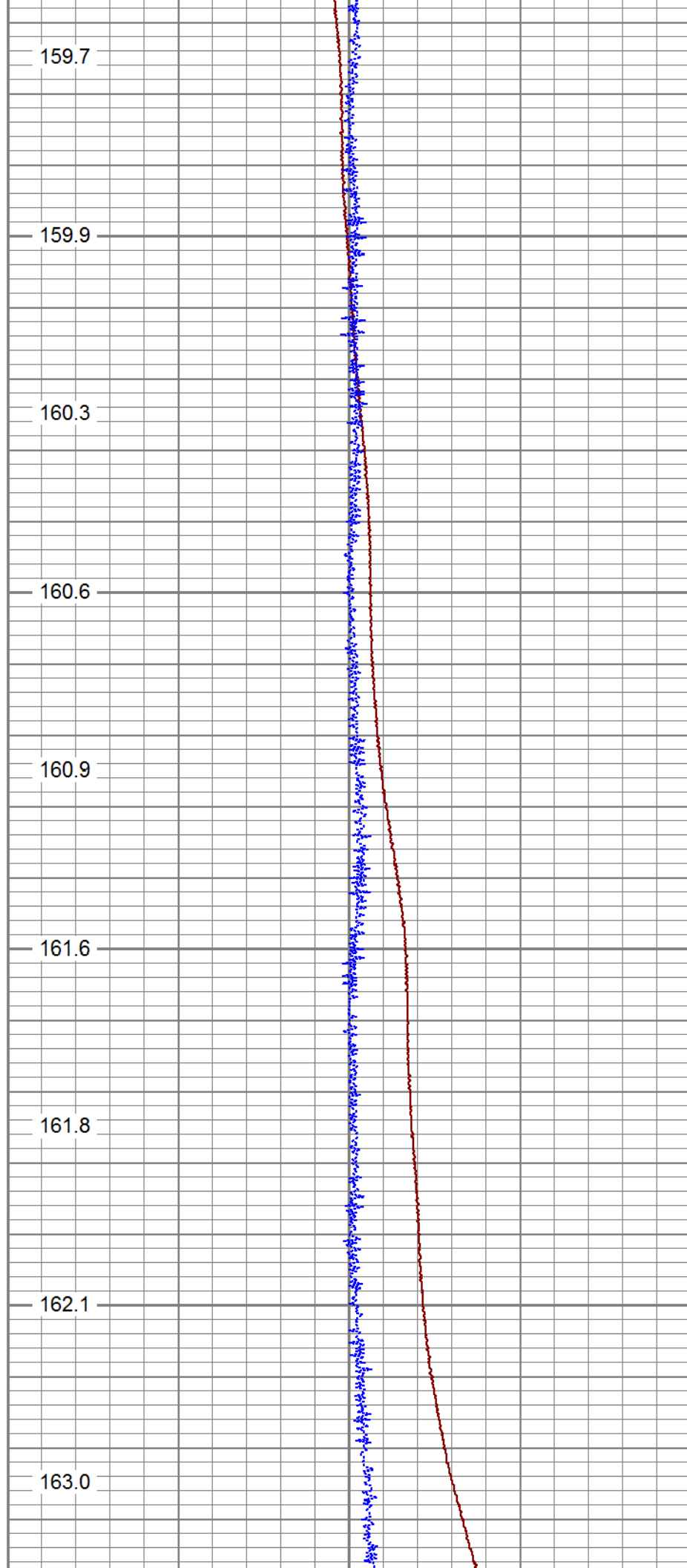
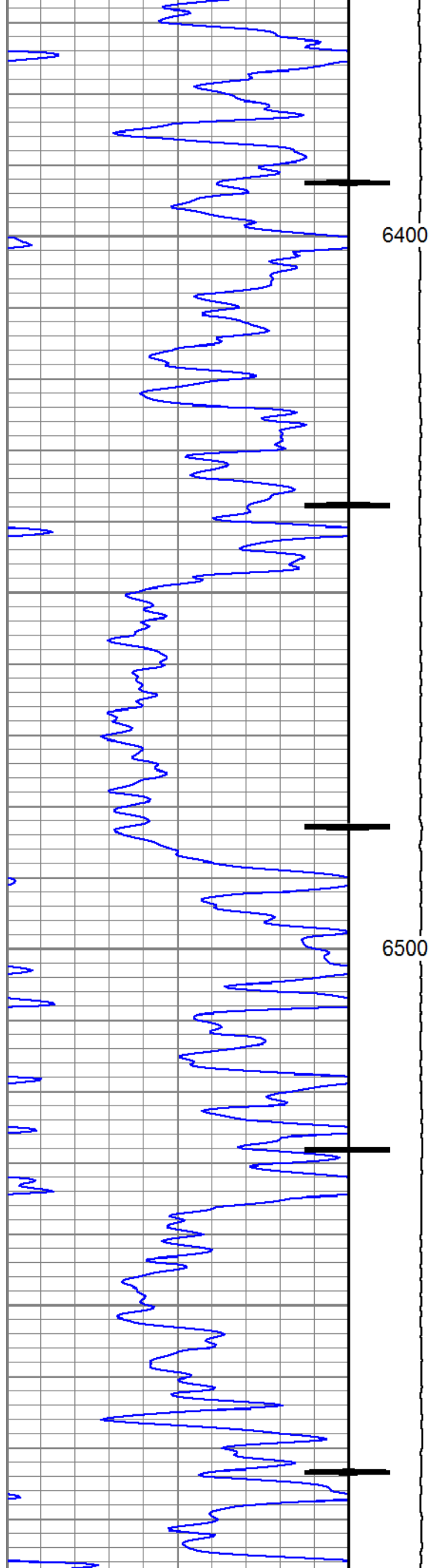


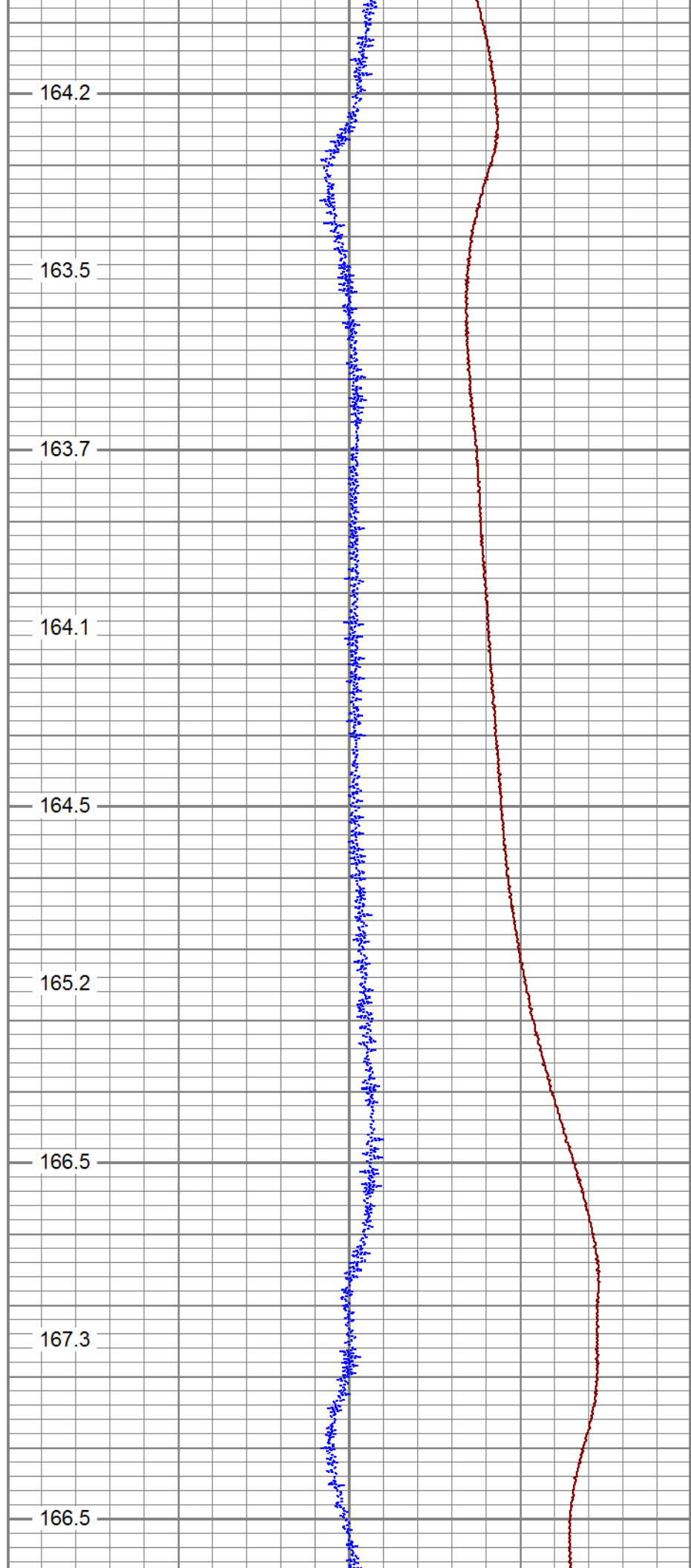
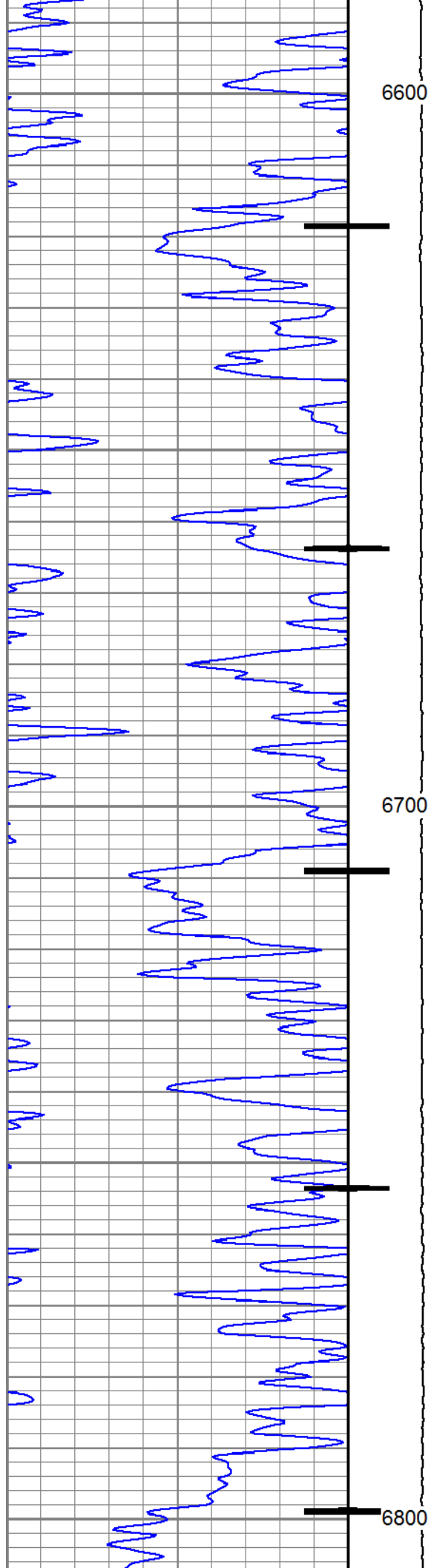


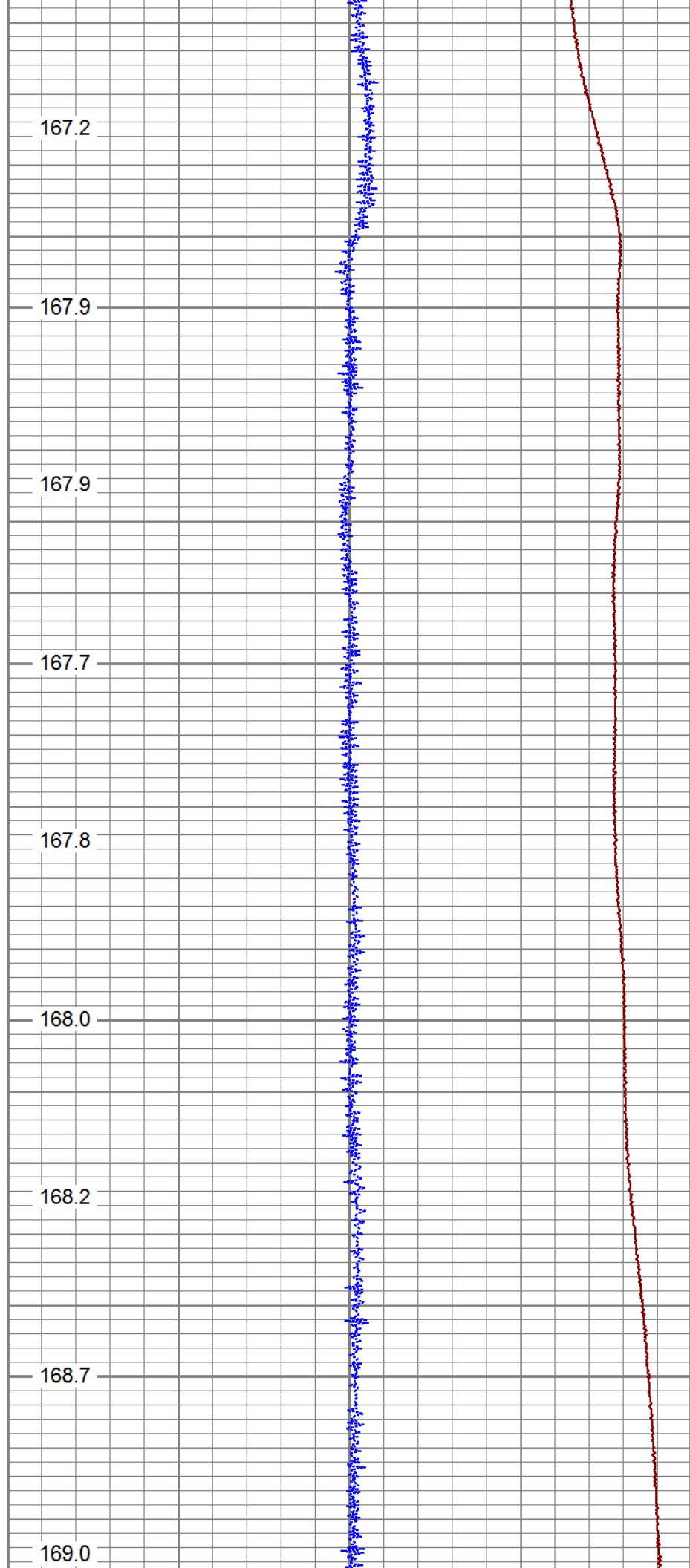
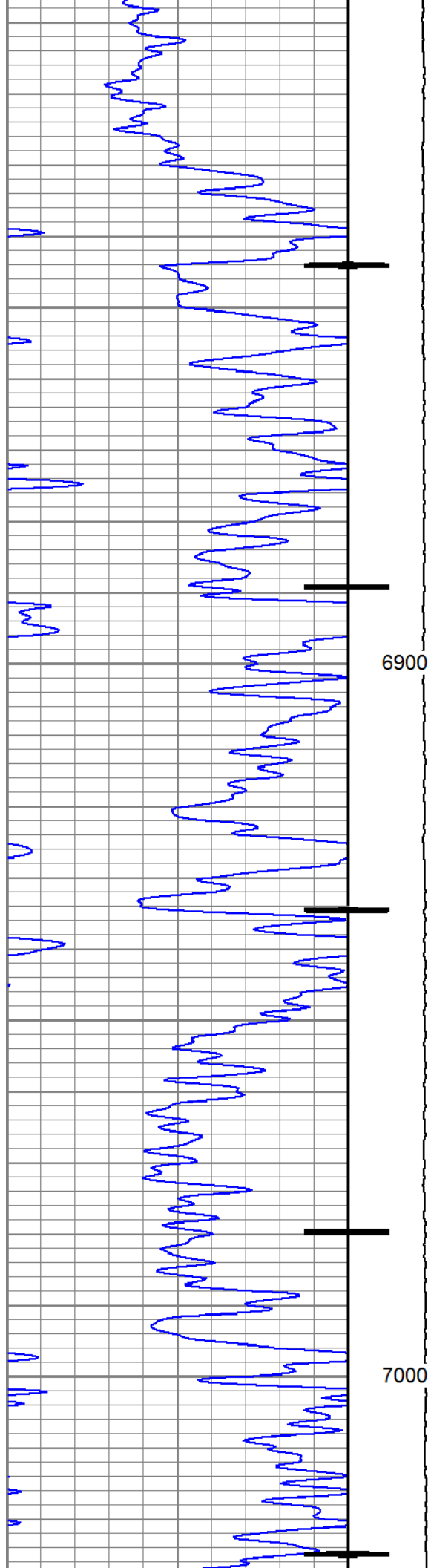


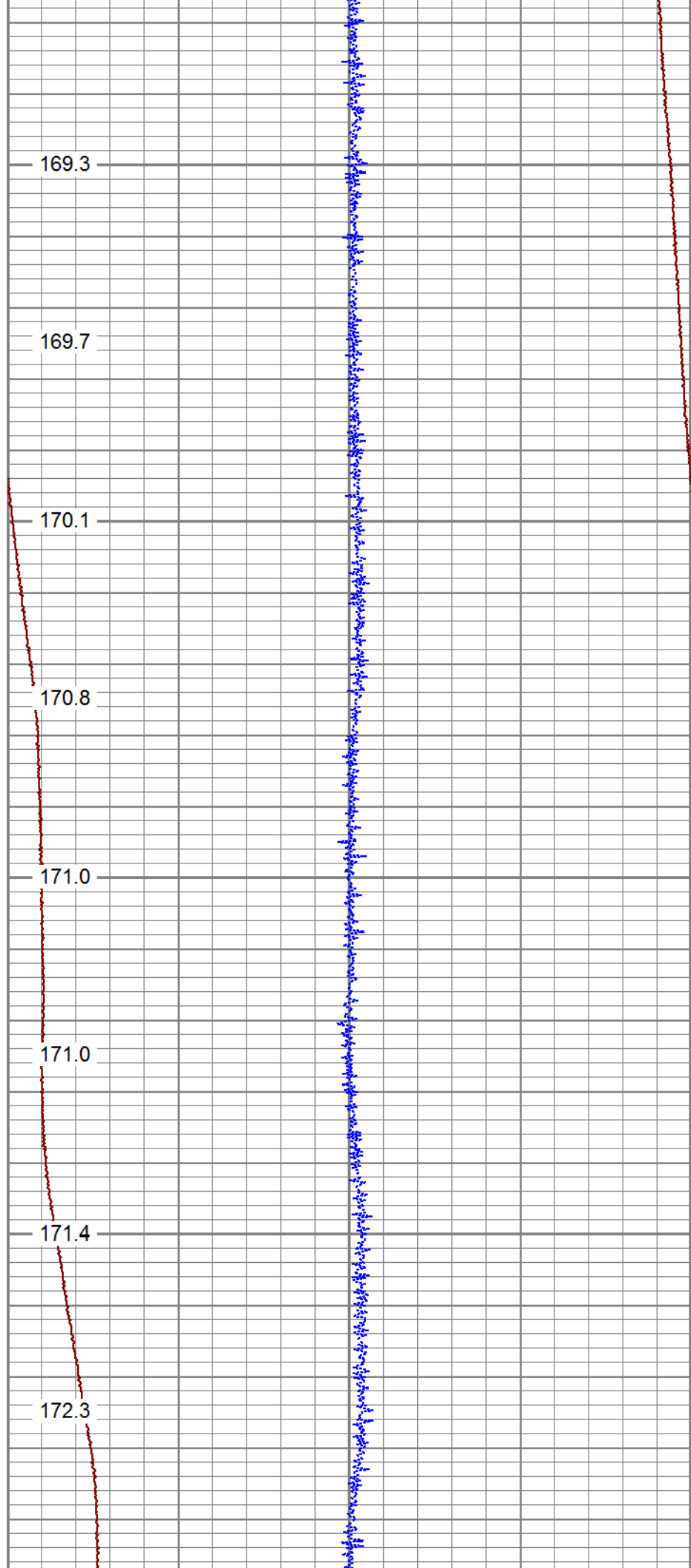
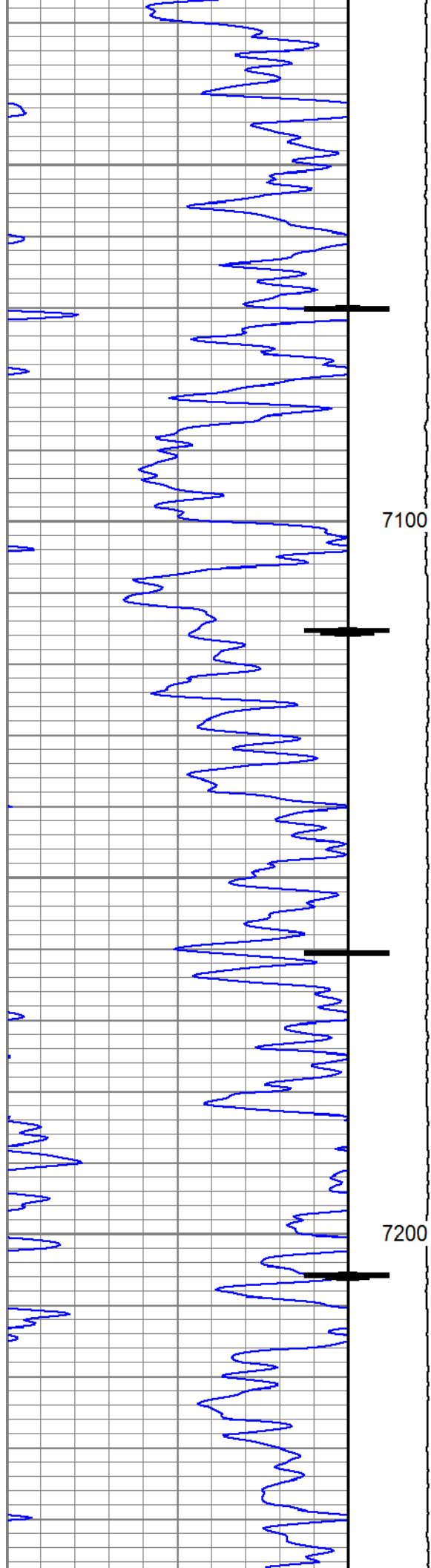


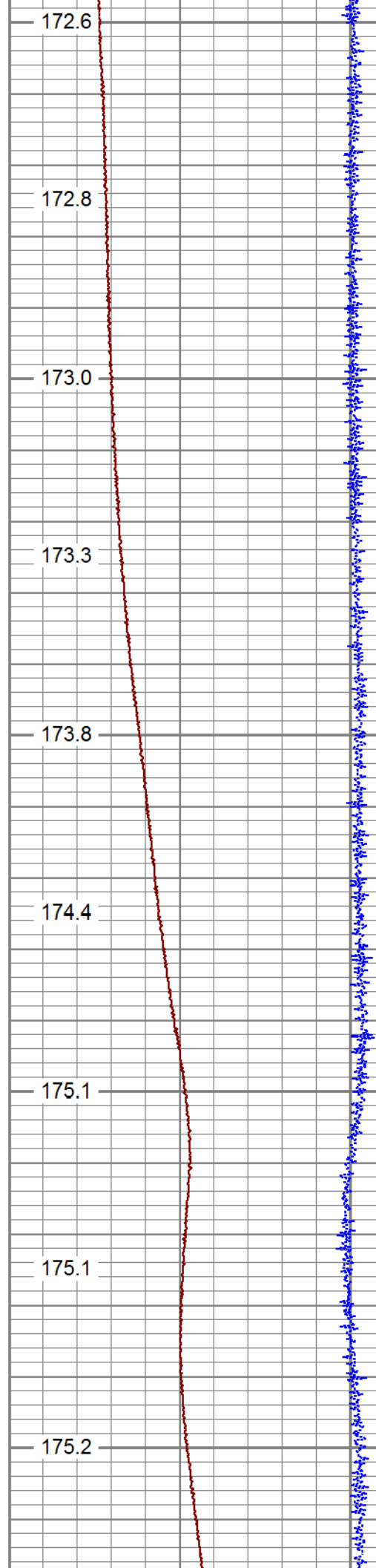
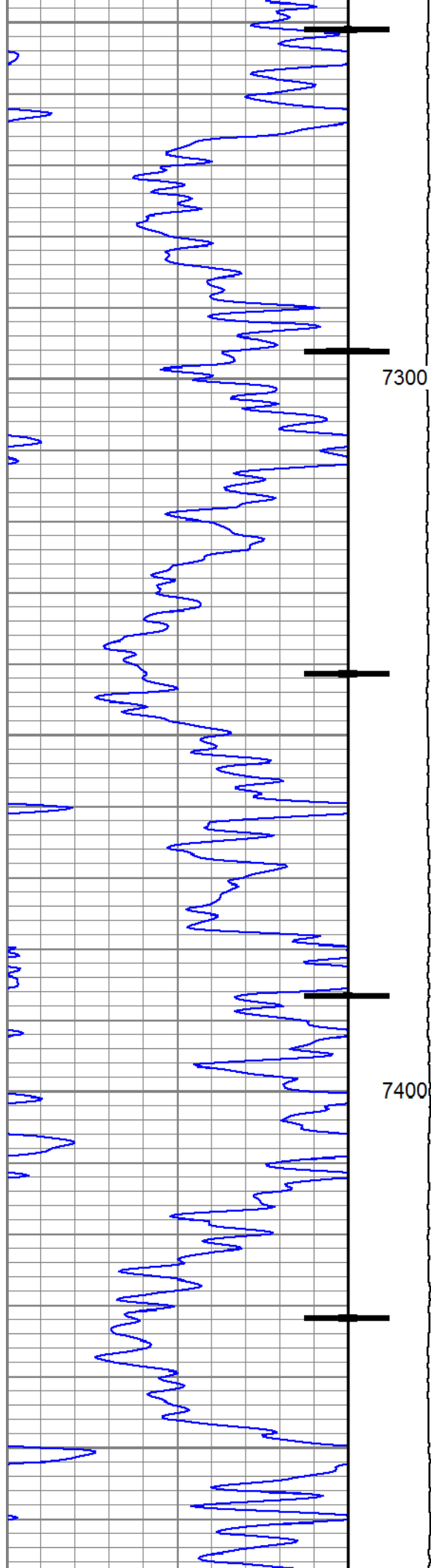


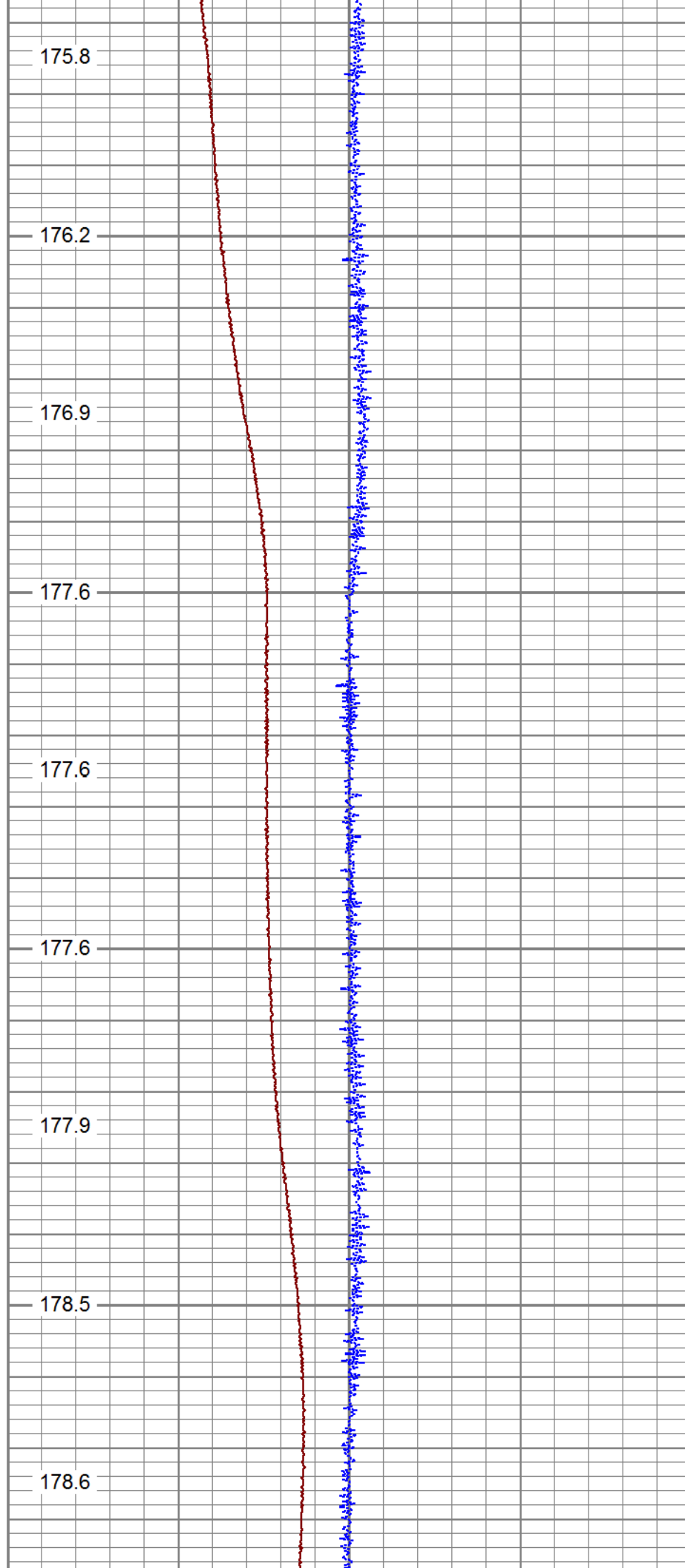
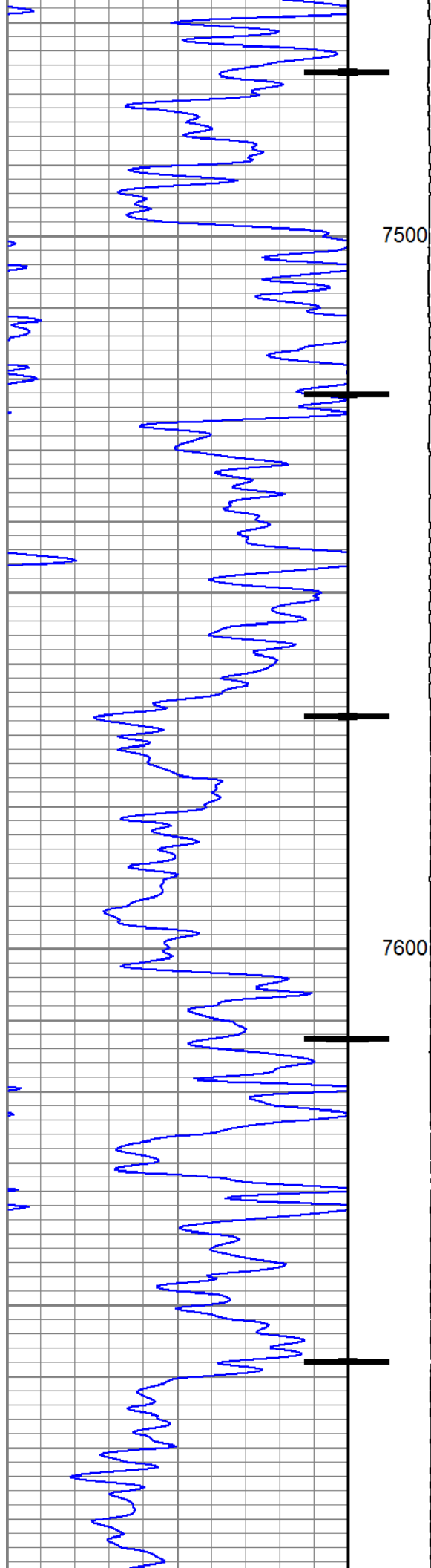


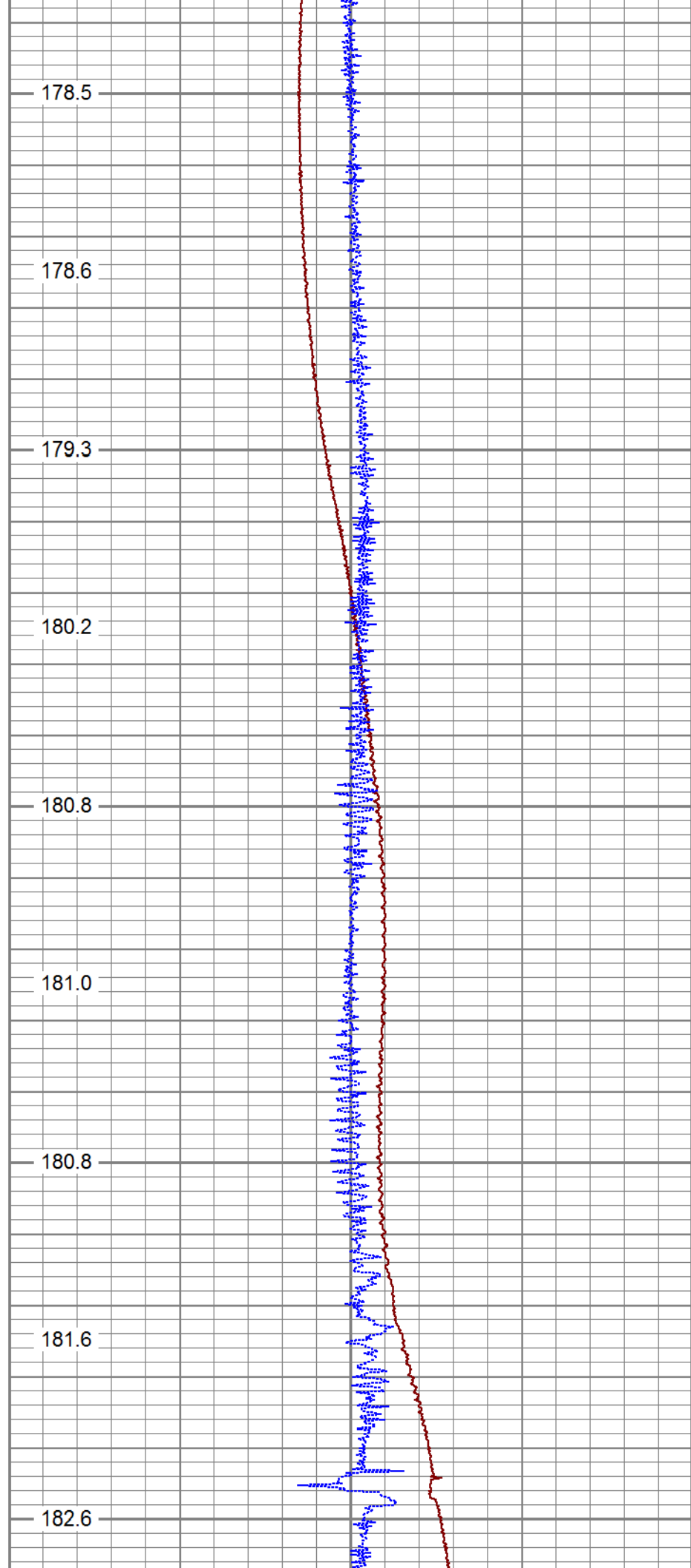
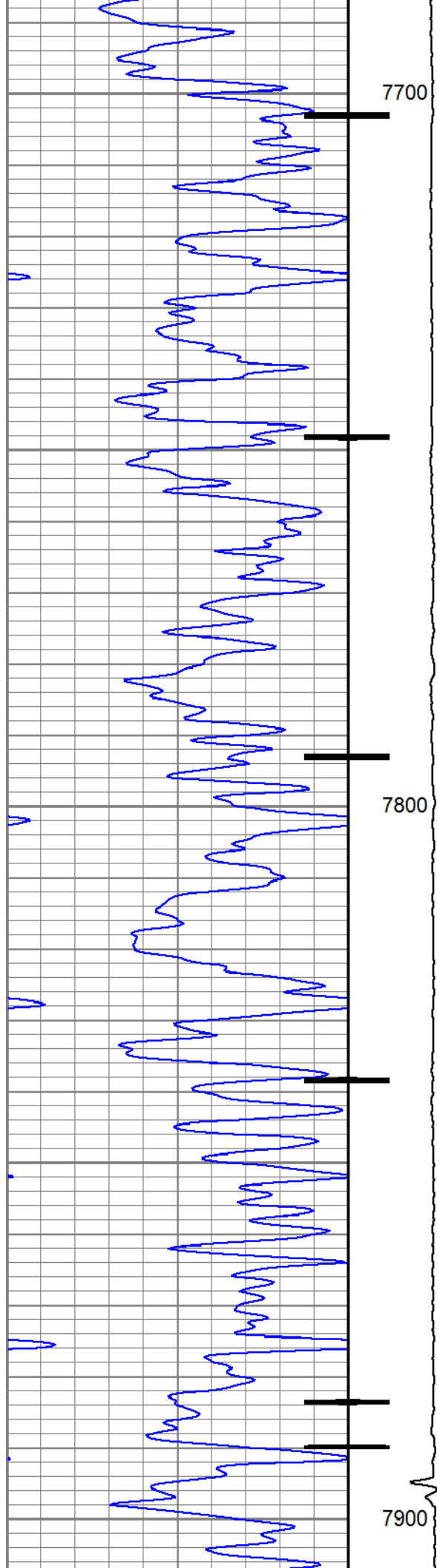


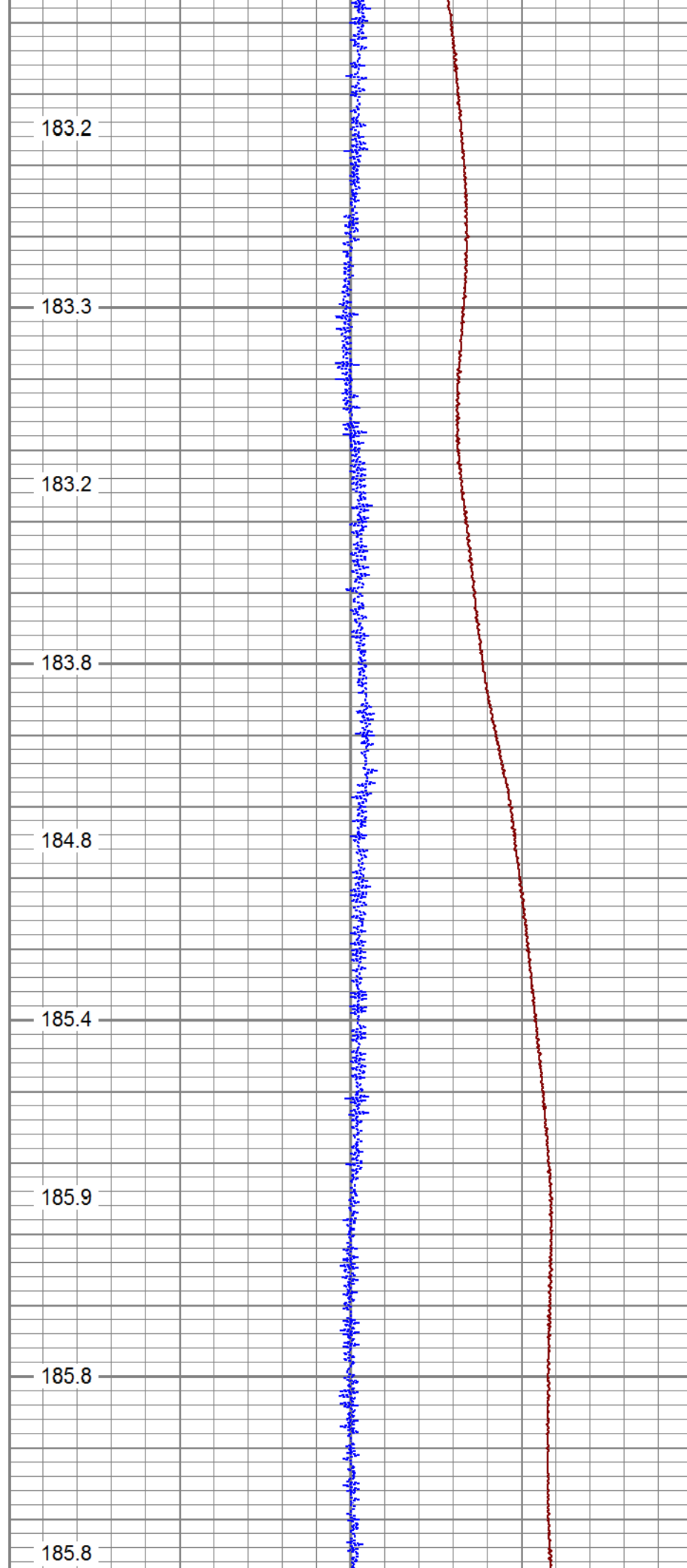
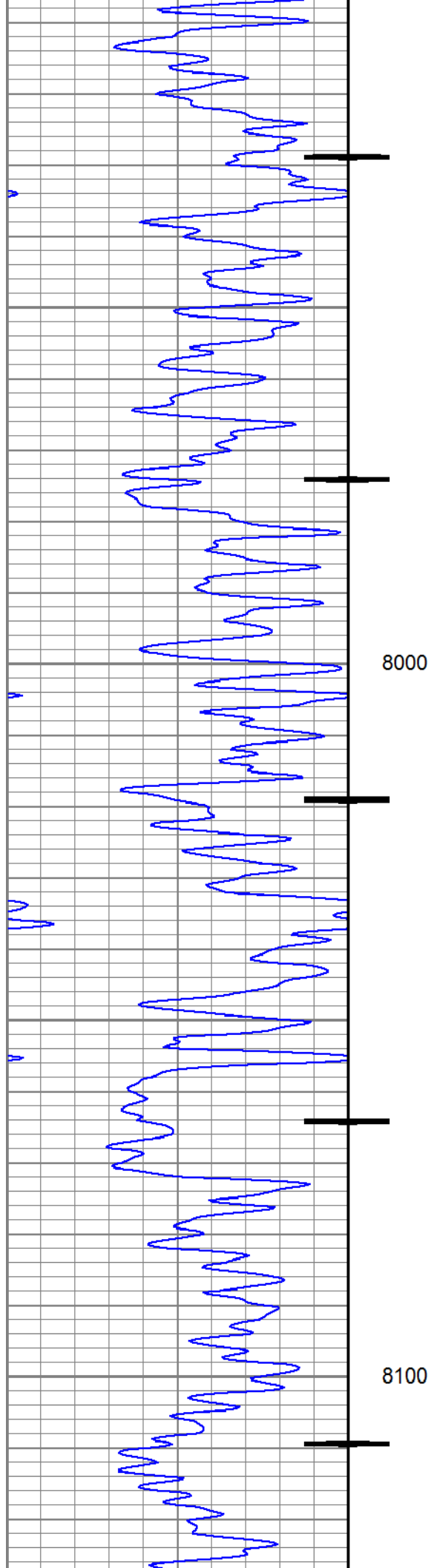


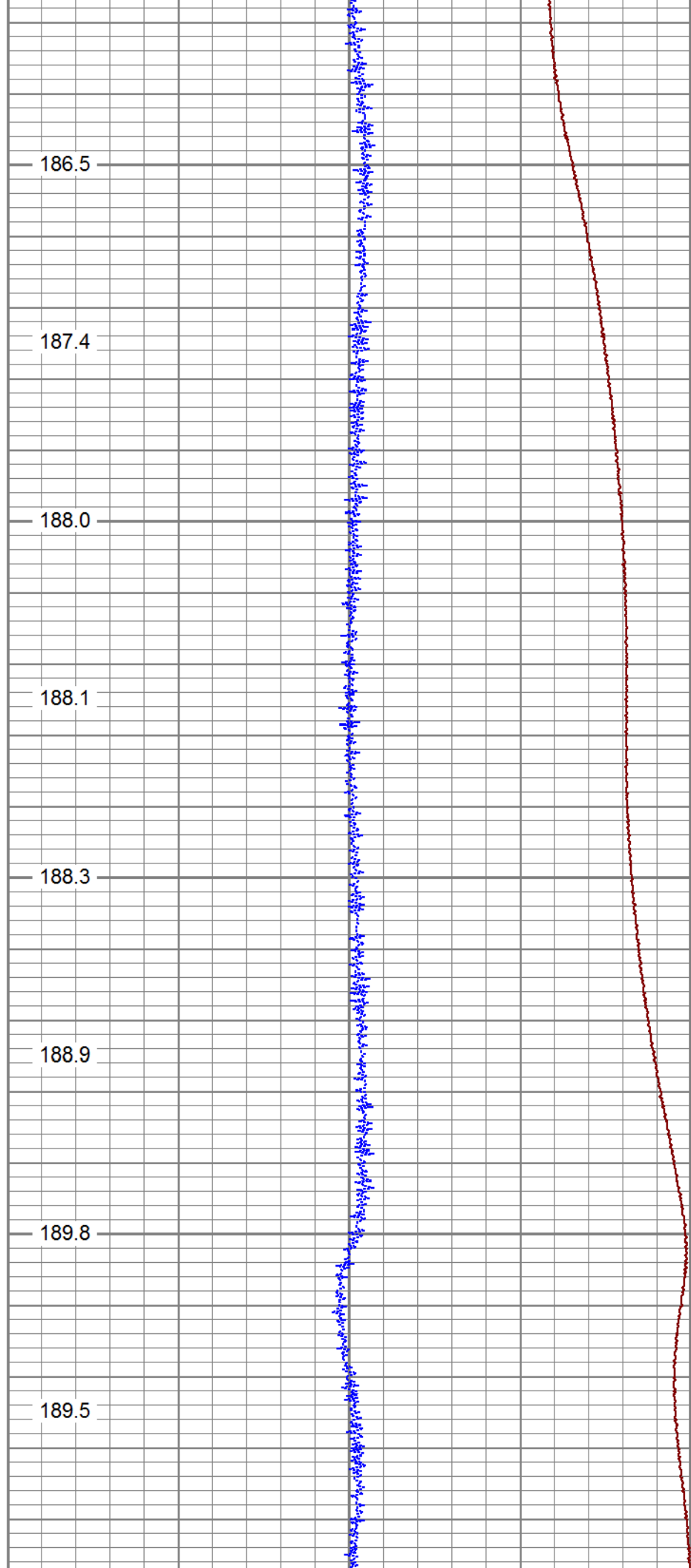
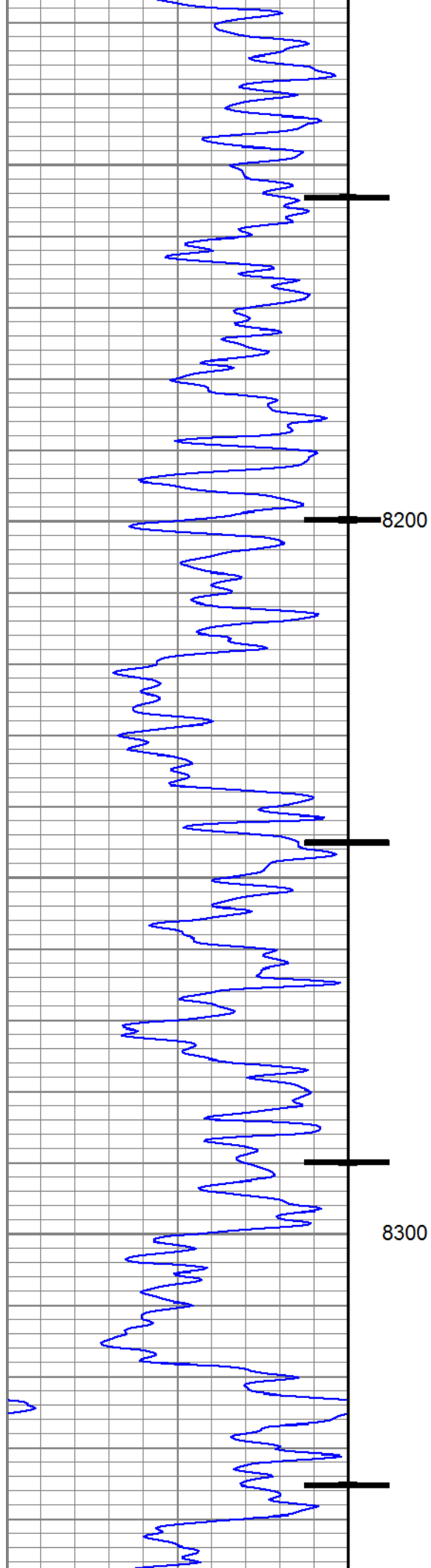


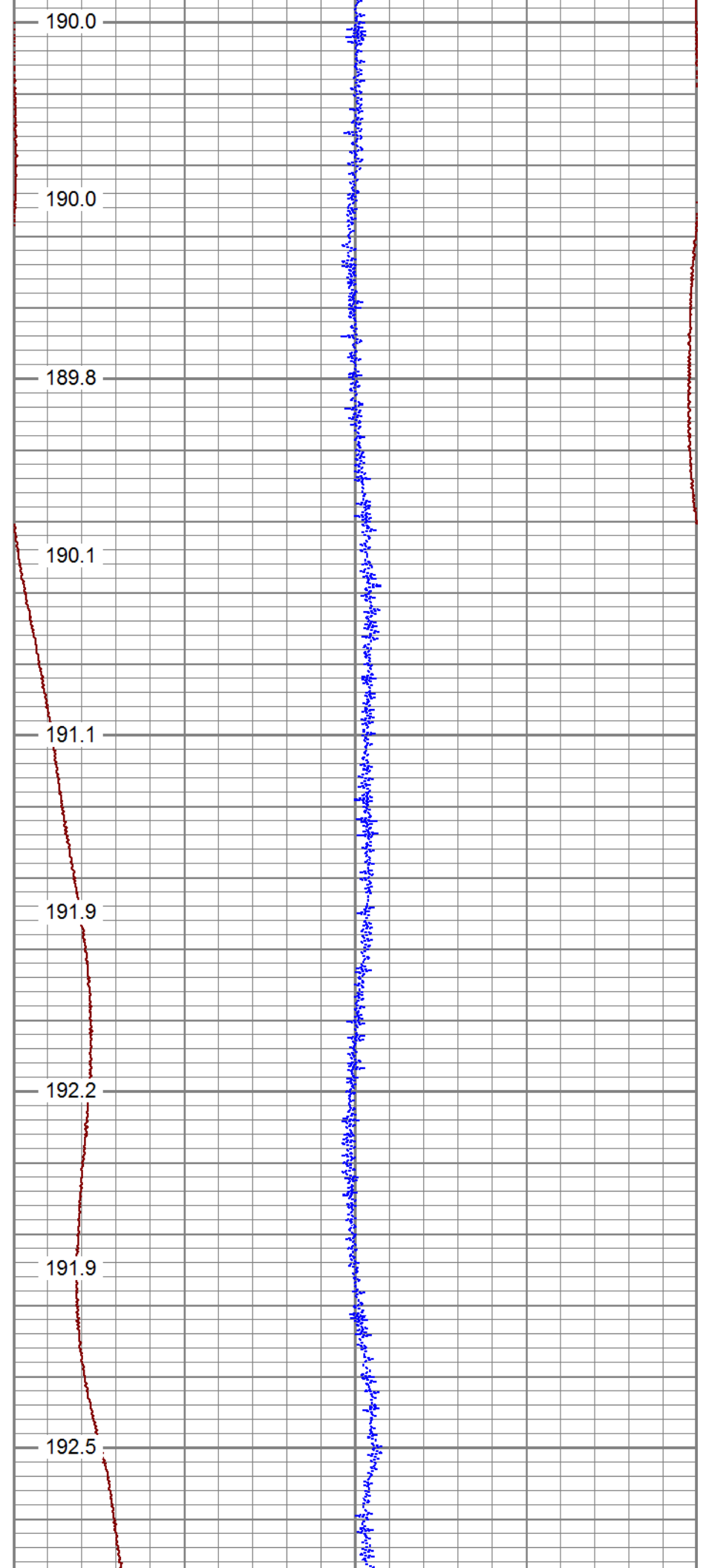
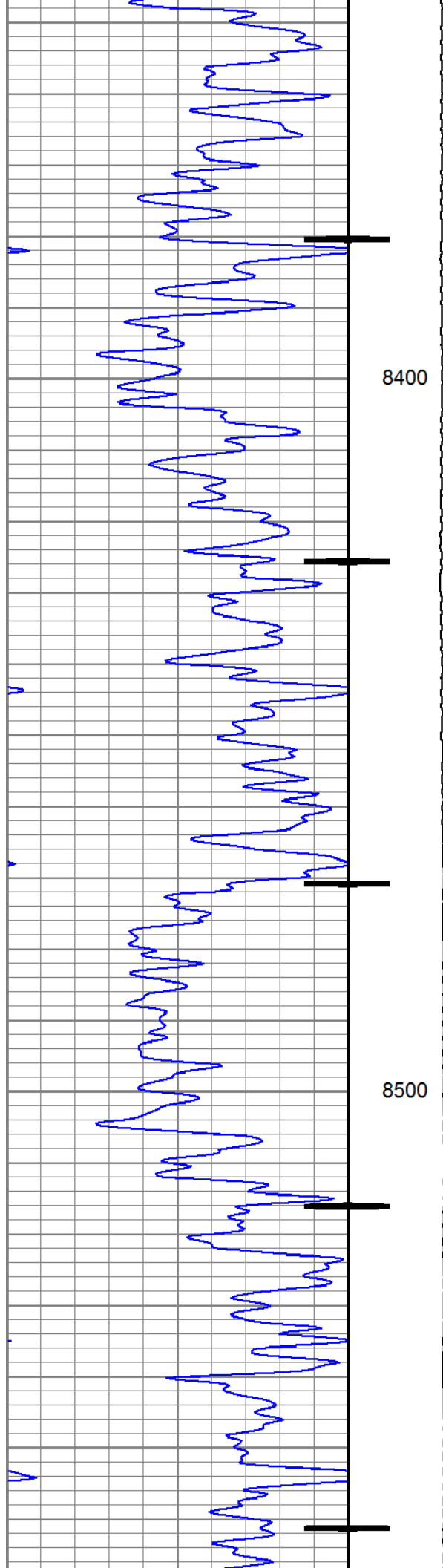


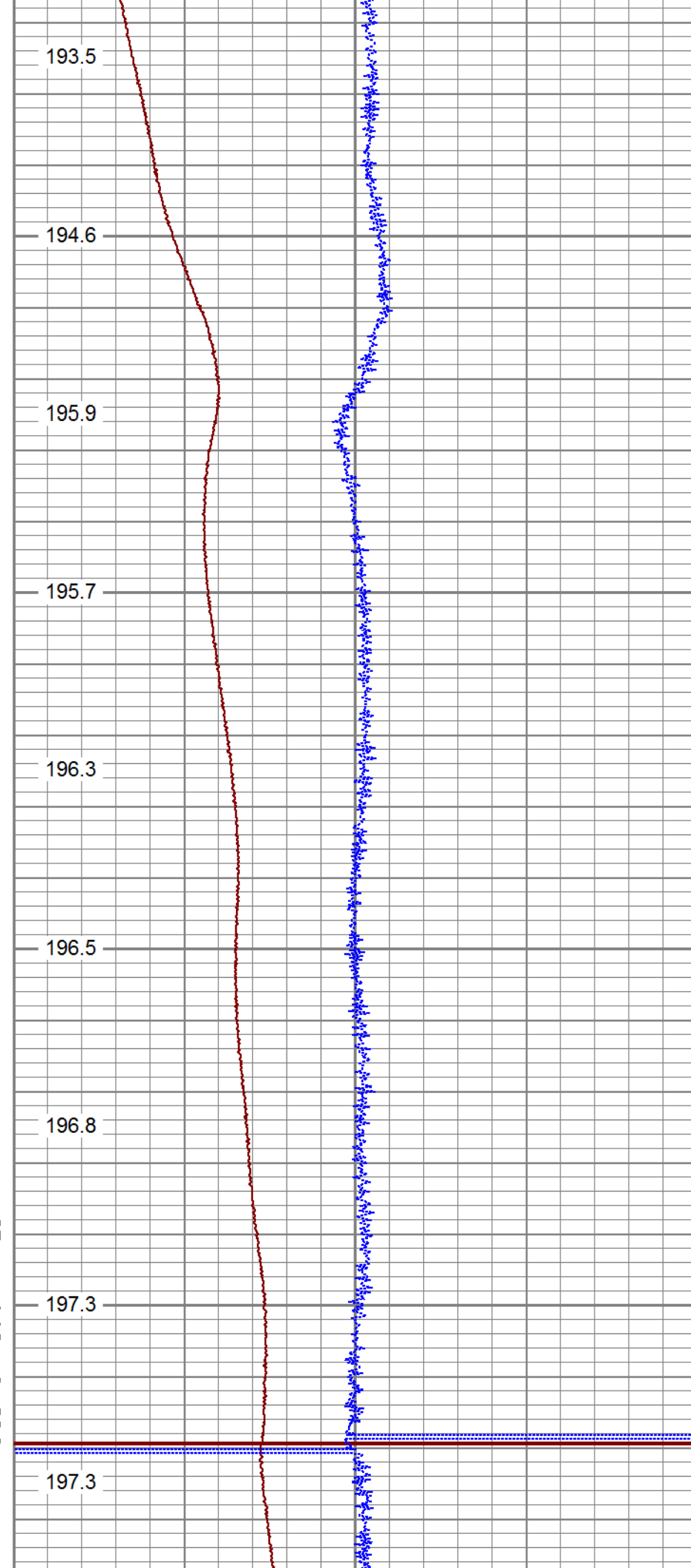
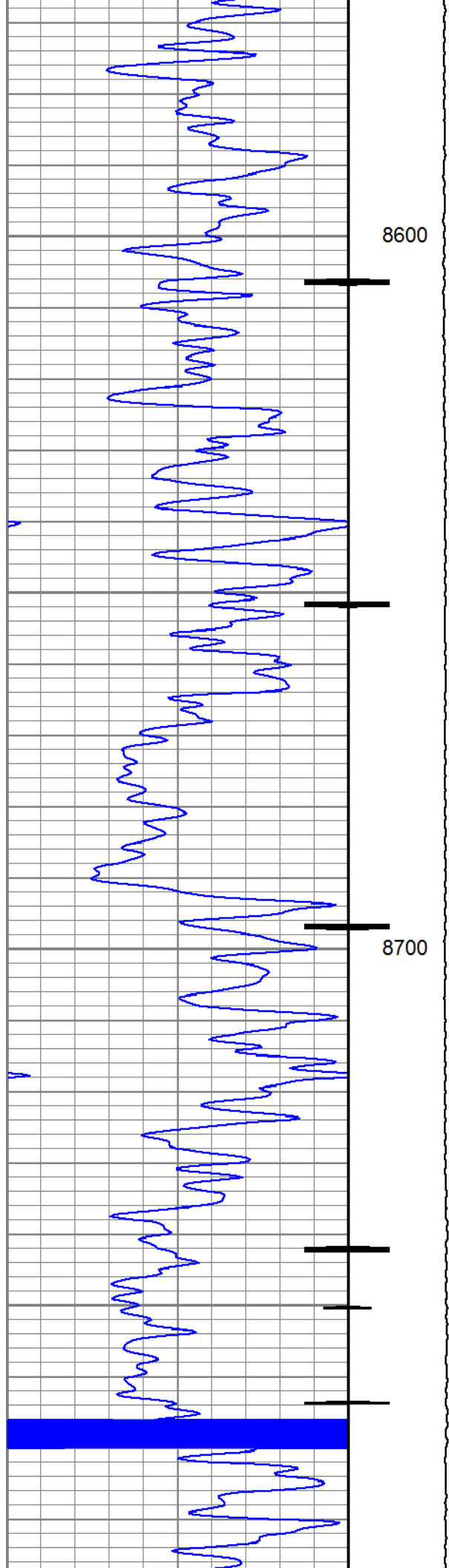


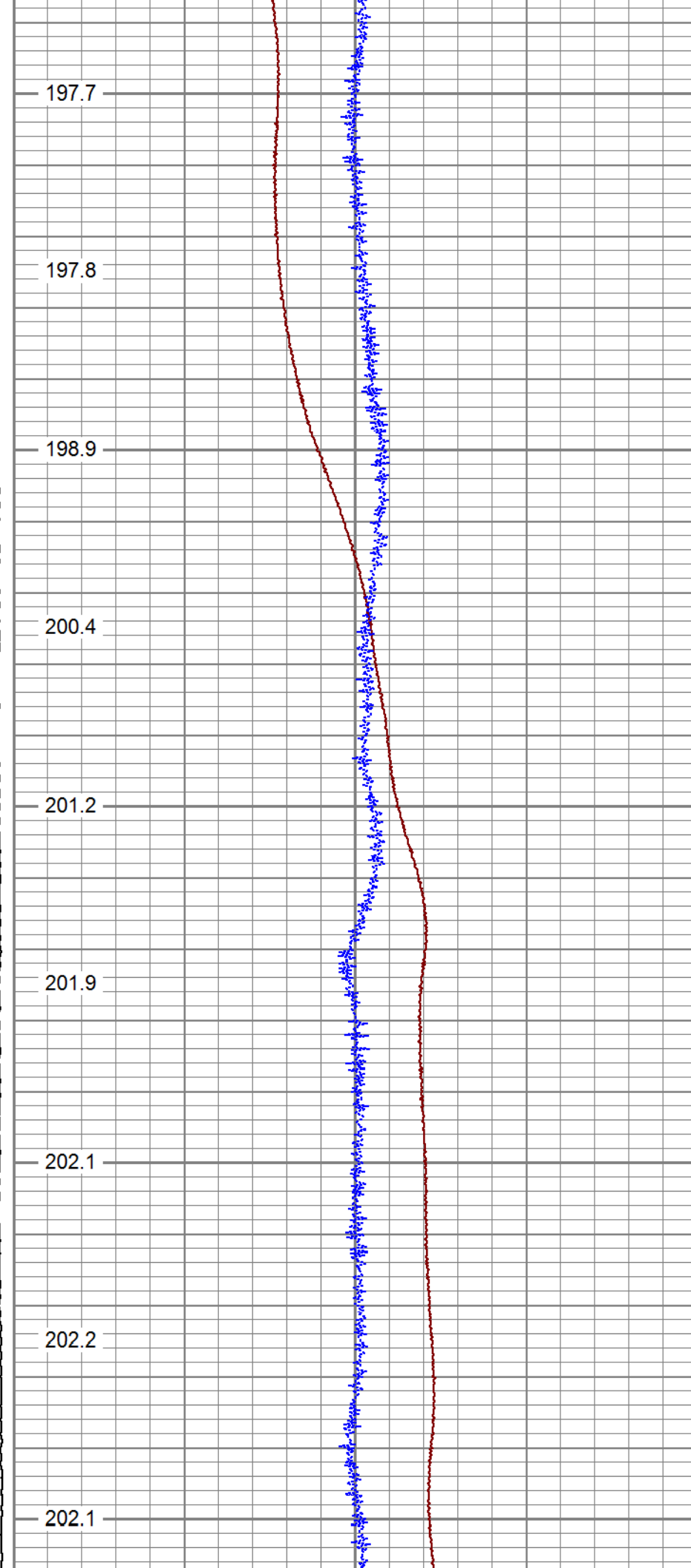
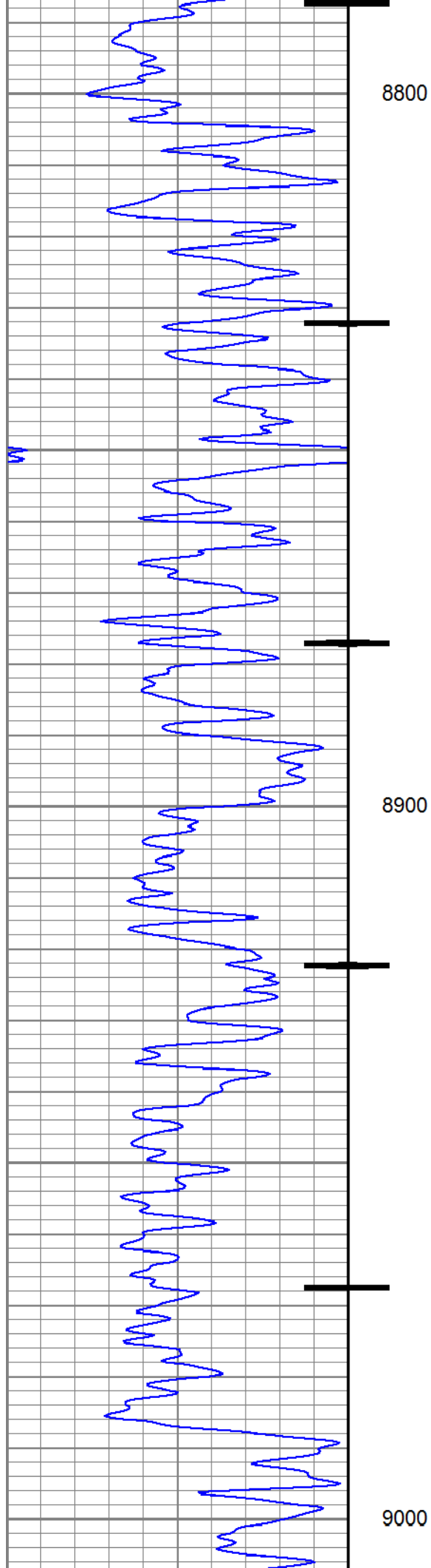


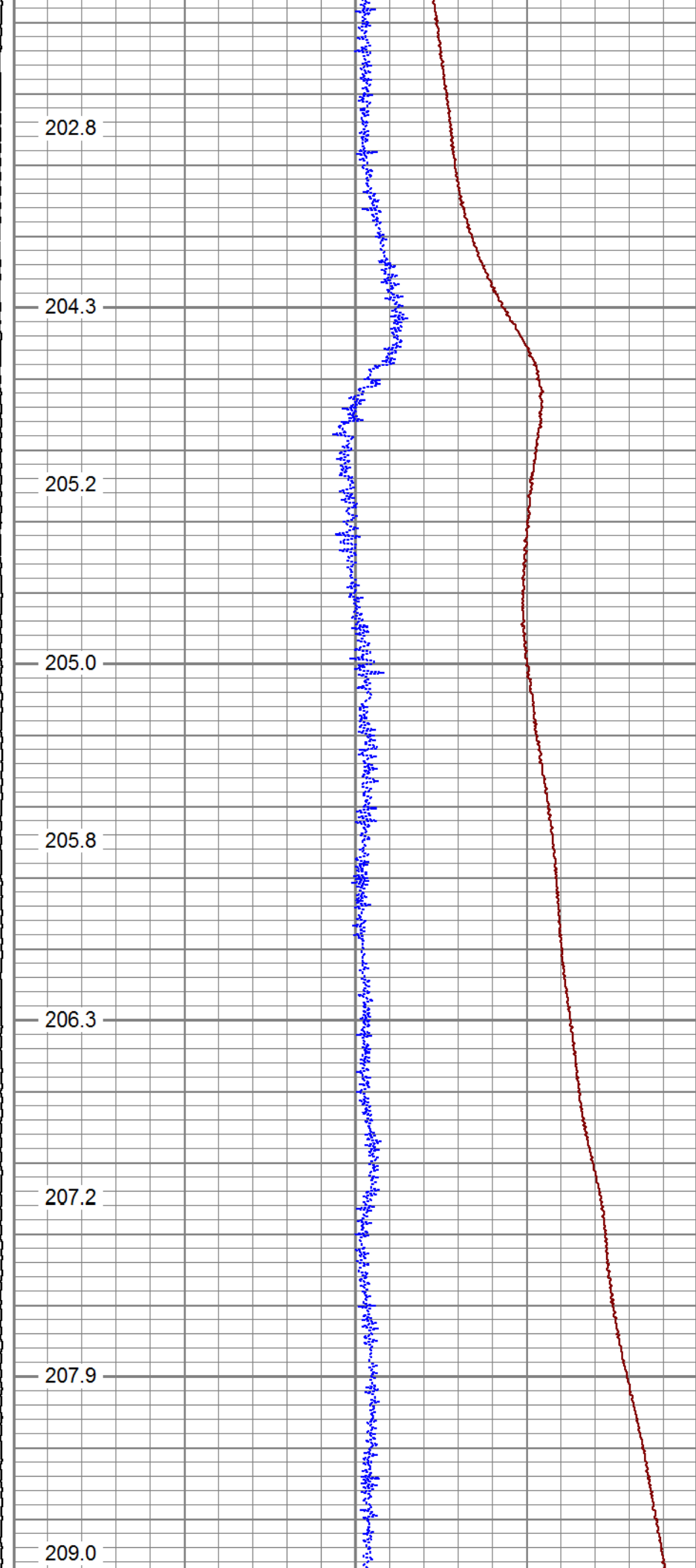
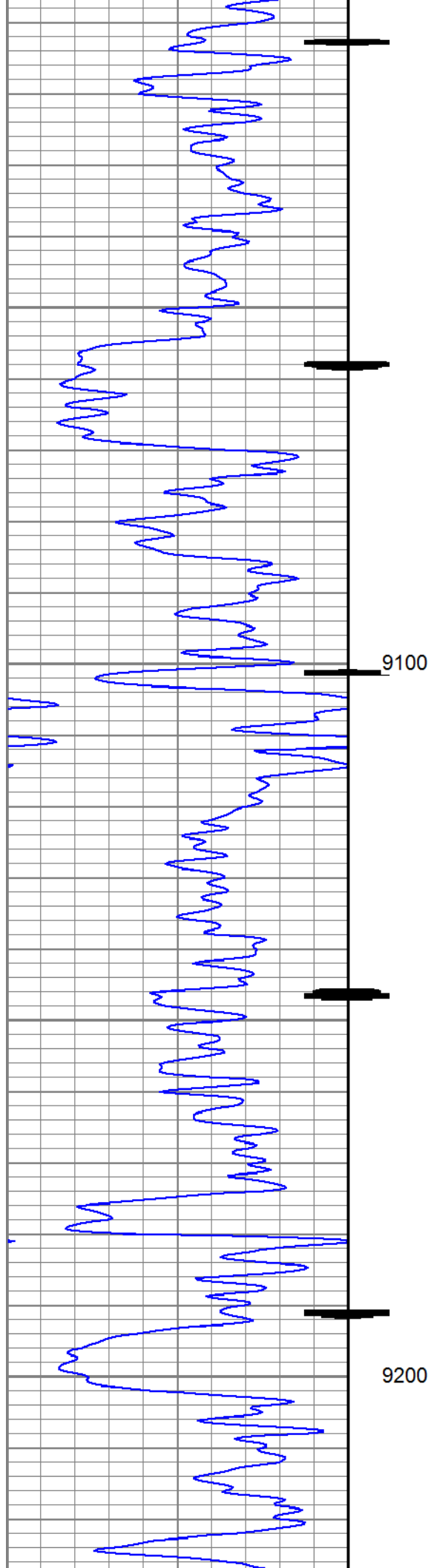


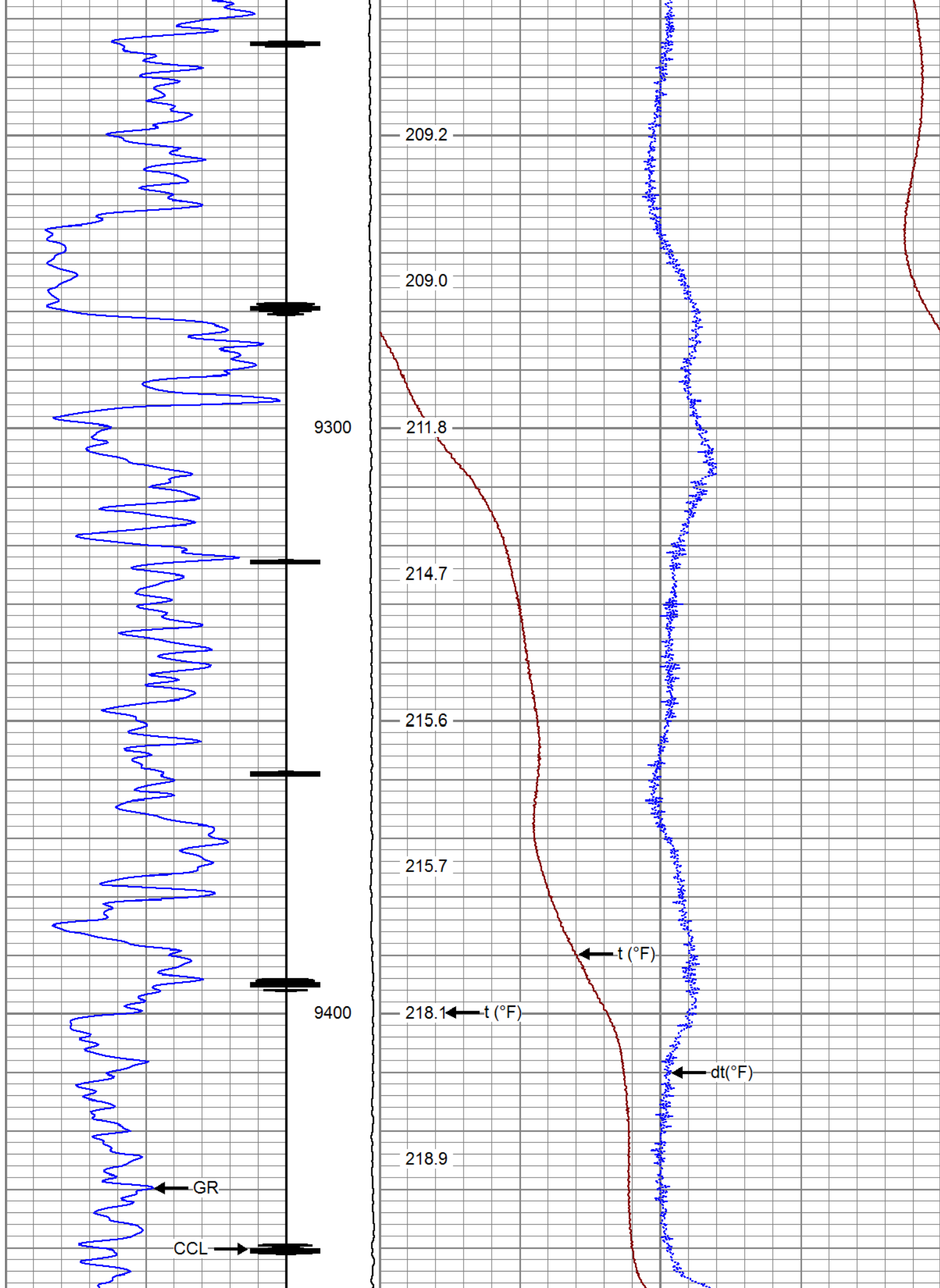


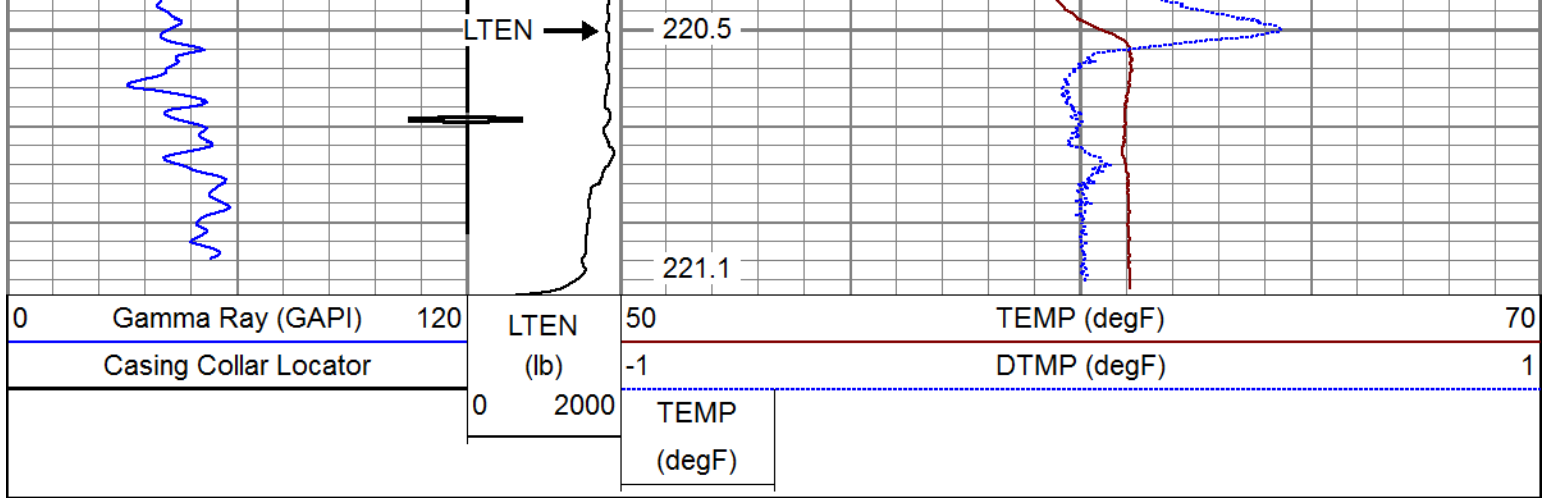










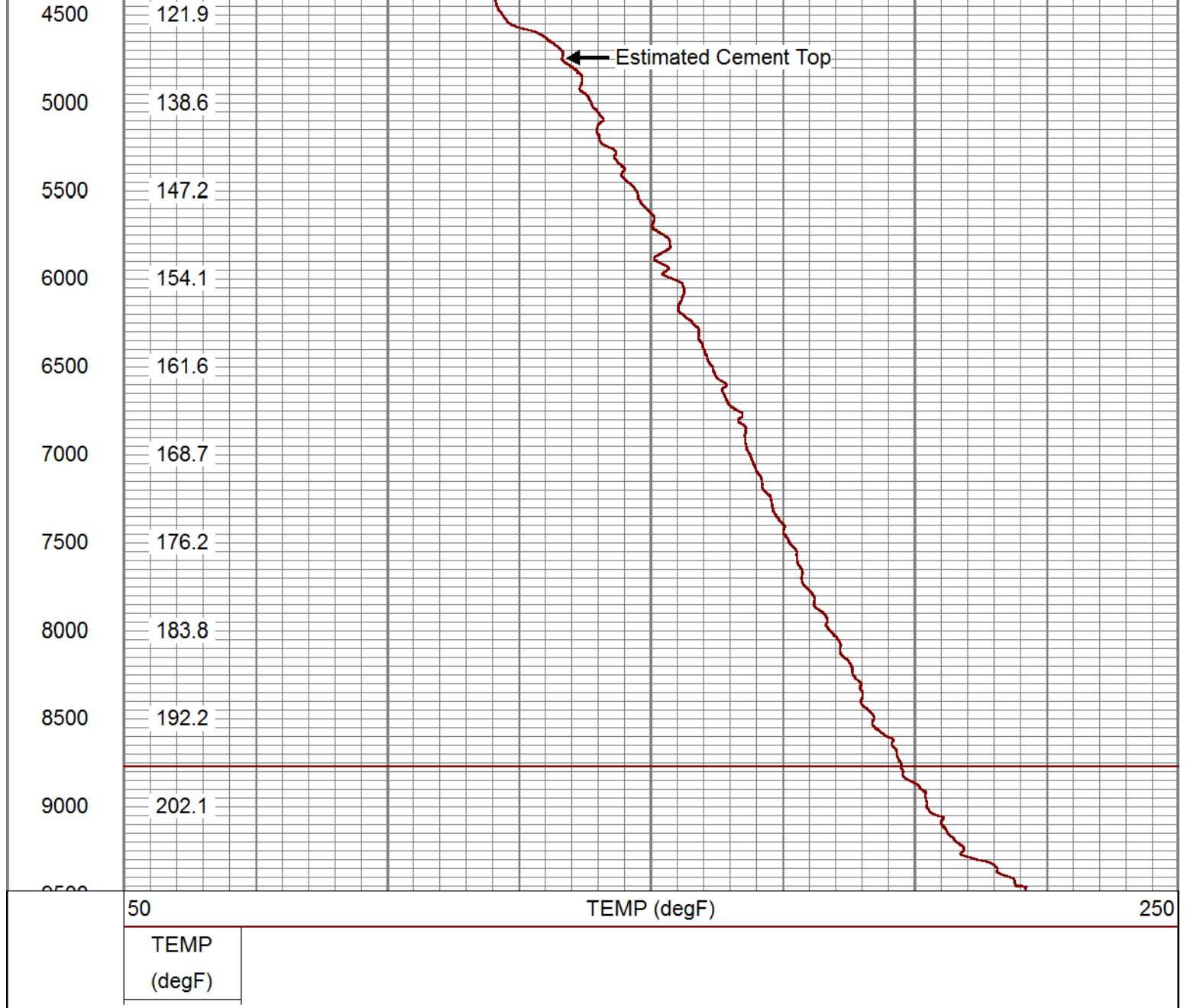


Main Pass (Quick Look)

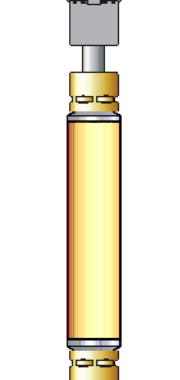
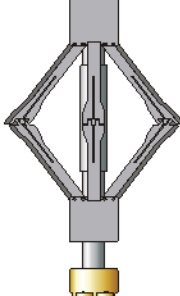

Database File: tep_youberg sr 521-12_temp_06-29-17\processed_tep_youberg sr 521-12_temp_06-29-17.db
 Dataset Pathname: merge1.2
 Presentation Format: ros_temp_ql_tep
 Dataset Creation: Thu Jun 29 22:01:10 2017
 Charted by: Depth in Feet scaled 1:10000

50	TEMP (degF)		250
TEMP (degF)			





Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan_Electric_Cable_Heads-Titan_1-11/16" Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
			UW_AGS-UW_AGS_001 (219135) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW_XTU-UW_XTU_002 (10012277) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PRC-DSS_RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00

CCL	6.24		UW_CCL-UW_CCL_028 (10025621) 3-1/8" Ultrawire Casing Collar Locator	1.61	3.13	36.00
			UW_PRC-DSS_RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
GR	1.76		UW_PGR-UW_PGR_020 (10019371) Production Gamma Ray	1.92	1.69	9.50
			UW_PRT-PRT_016 (10025093) Platinum Resistance Thermometer	1.04	1.69	5.20
TEMP	0.37		UW_BUL-UW_BUL_006 (10019730) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20
HVOLTX	0.00					
ITEMPX	0.00					
TSTAMP	0.00					
Dataset: PROCESSED_TEP_Youberg SR 521-12_TEMP_06-29-17.db: field/well/run1/pass2 Total length: 12.71 ft Total weight: 128.80 lb O.D.: 3.13 in						

Calibration Report					
Database File	C:\ProgramData\Warrior\Data\TEP_Youberg SR 521-12_TEMP_06-29-17\PROCESSED_TEP_You				
Dataset Pathname	pass2				
Dataset Creation	Thu Jun 29 20:15:06 2017				
Temperature Calibration Report					
Serial Number:		10025093			
Tool Model:		PRT_016			
Performed:		Sun Oct 11 12:31:14 2015			
Point #	Reading		Reference		
1	13006.00	cps	68.00	degF	
2	18181.00	cps	104.00	degF	
3	29634.00	cps	176.00	degF	
4	41077.00	cps	248.00	degF	
5	52560.00	cps	320.00	degF	
6	58409.00	cps	356.00	degF	
7		cps		degF	
8		cps		degF	

9
10

cps
cps

degF
degF

Gamma Ray Calibration Report

Serial Number:	10019371	
Tool Model:	UW_PGR_020	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps



RELIANCE
D I L F I E L D S E R V I C E S

Company	TEP Rocky Mountain LLC
Well	Youberg SR 521-12
Field	Rulison
County	Garfield
State	Colorado