



TEMPERATURE LOG

Company						CANADIAN NATURAL RESOURCES LTD.					
Well						32-14 CNUL CADOTTE 1-24-85-19					
Field						PEACE RIVER					
Province						ALBERTA					
Date						February 8, 2018					
AFE #						WO181495 N303					
Depth Driller						1316.0m					
Depth Logger						1307.4m					
Bottom Log Interval						1307.1m					
Top Log Interval						Surface					
Type Fluid						Produced Water					
Fluid Level						230.0m					
Service Order Number						5954					
Unit Number						WL4					
Location						Bonnyville					
Recorded By						P. MacMillan					
Witnessed By						S. Chogglins					
						Perforating Record					
Run #						Size(mm)					
SPM						Gram Wt.					
Phasing						From					
To											
Casing Record						Size(mm)					
Surface						Wgt/m (kg/m)					
Production						Top(m)					
Intermediate						Bottom(m)					
Liner						29.28					
Tubing						Surface					
						808.0m					
						1316.0m					

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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.

Log Correlated To: Current Well Schematic


Log Dated: N/A


Pumped temperature tool through 2 7/8 tubing

Tool was left on bottom For 4 hours

Reached a max temperature of 42.4°C@775.0mKB

LOGGED AS PER CUSTOMER REQUEST

Sensor	Offset (m)	Schematic	Description	Length (m)	O.D. (mm)	Weight (kg)
						

GR	0.78		GR-TITAN168 (T1) TITAN 1 11/16 Scintillation GR	1.45	43.03	20.00
LLMTEN CCL	0.00 0.00		CCL-TIT168 (T1) Titan 1 11/16 Logging CCL	0.56	43.03	5.00
TEMP	1.12		TEMP-H168 (H1) 1 11/16 Titan High Temp	0.94	43.03	5.50
<div>Dataset: cn pr temp log.db: field/well/run1/pass4</div> <div>Total length: 2.95 m</div> <div>Total weight: 30.50 kg</div> <div>O.D.: 43.03 mm</div>						

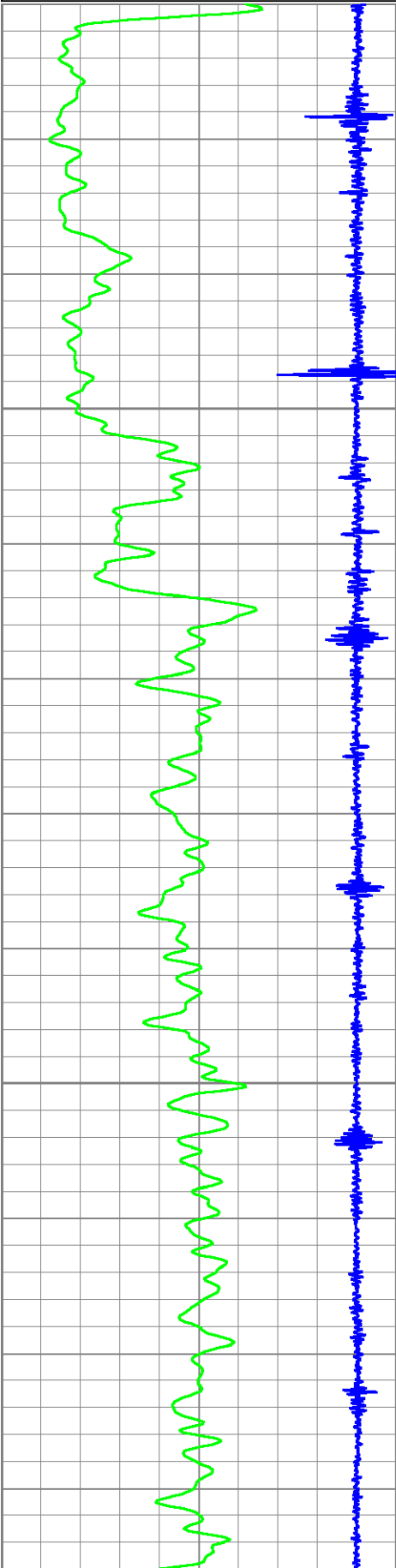


Main Pass

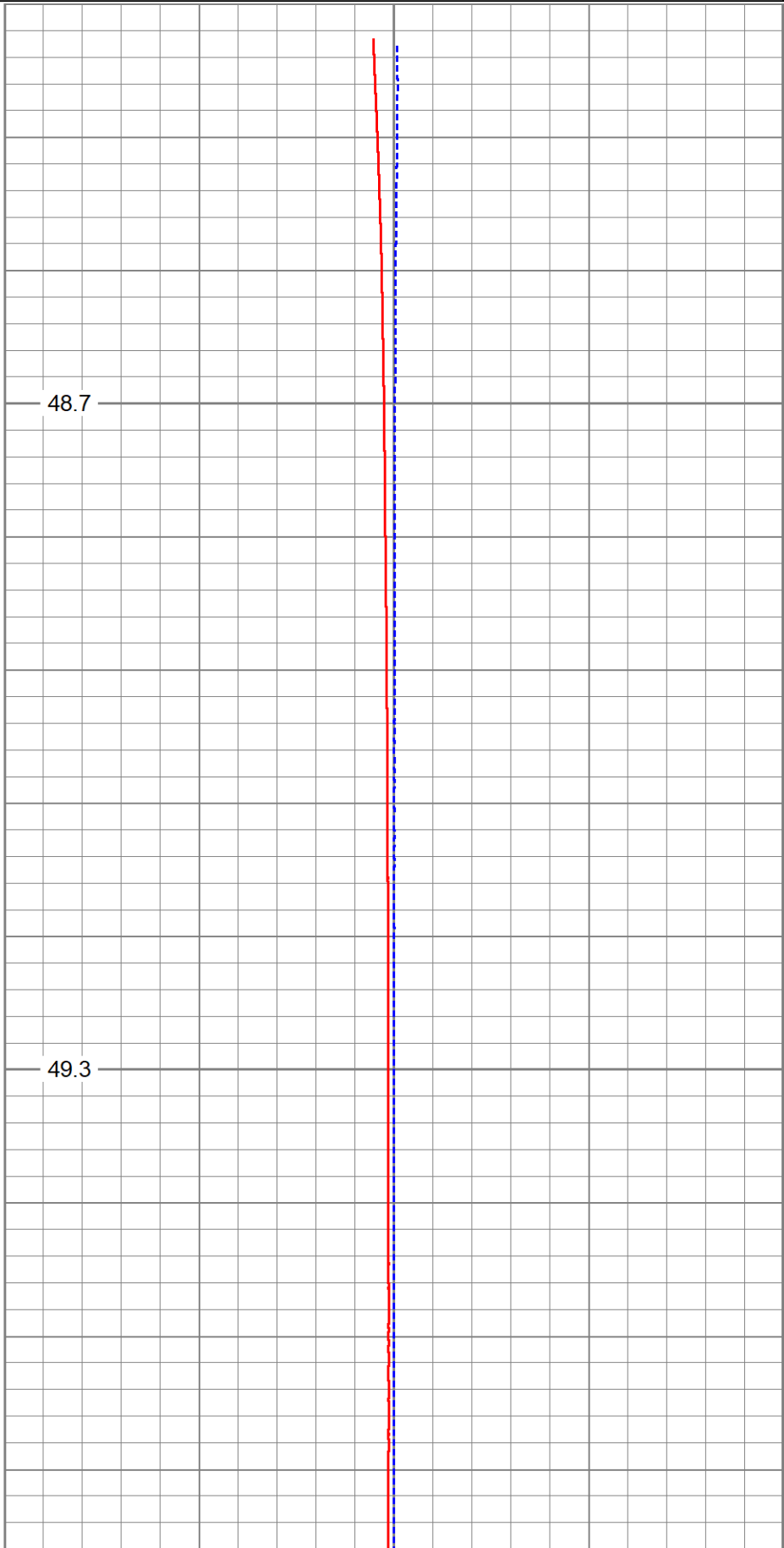
0	GR (GAPI)	120
1.25	CCL	-0.125

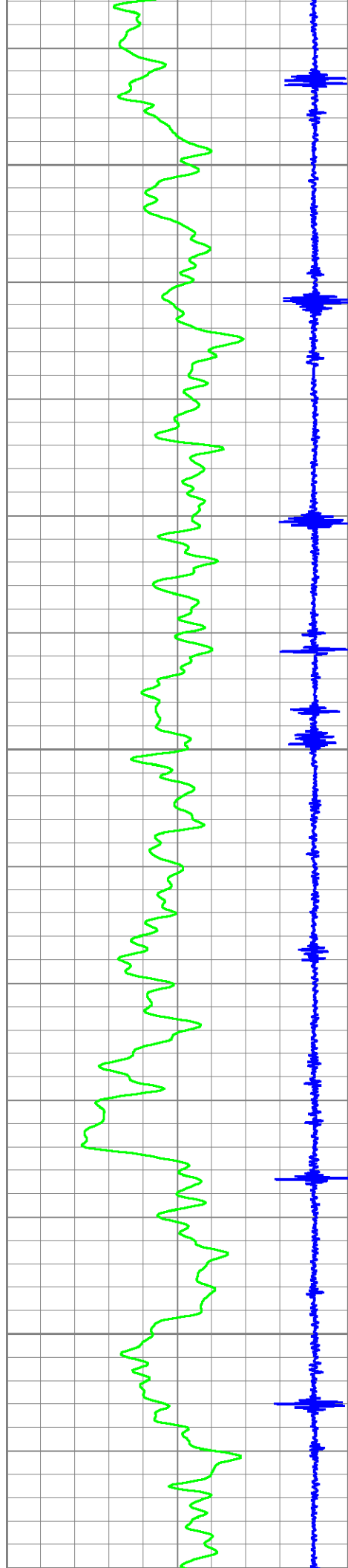
0	TEMP (degC)	100
-5	DTMP (degC)	5

TEMP
(degC)

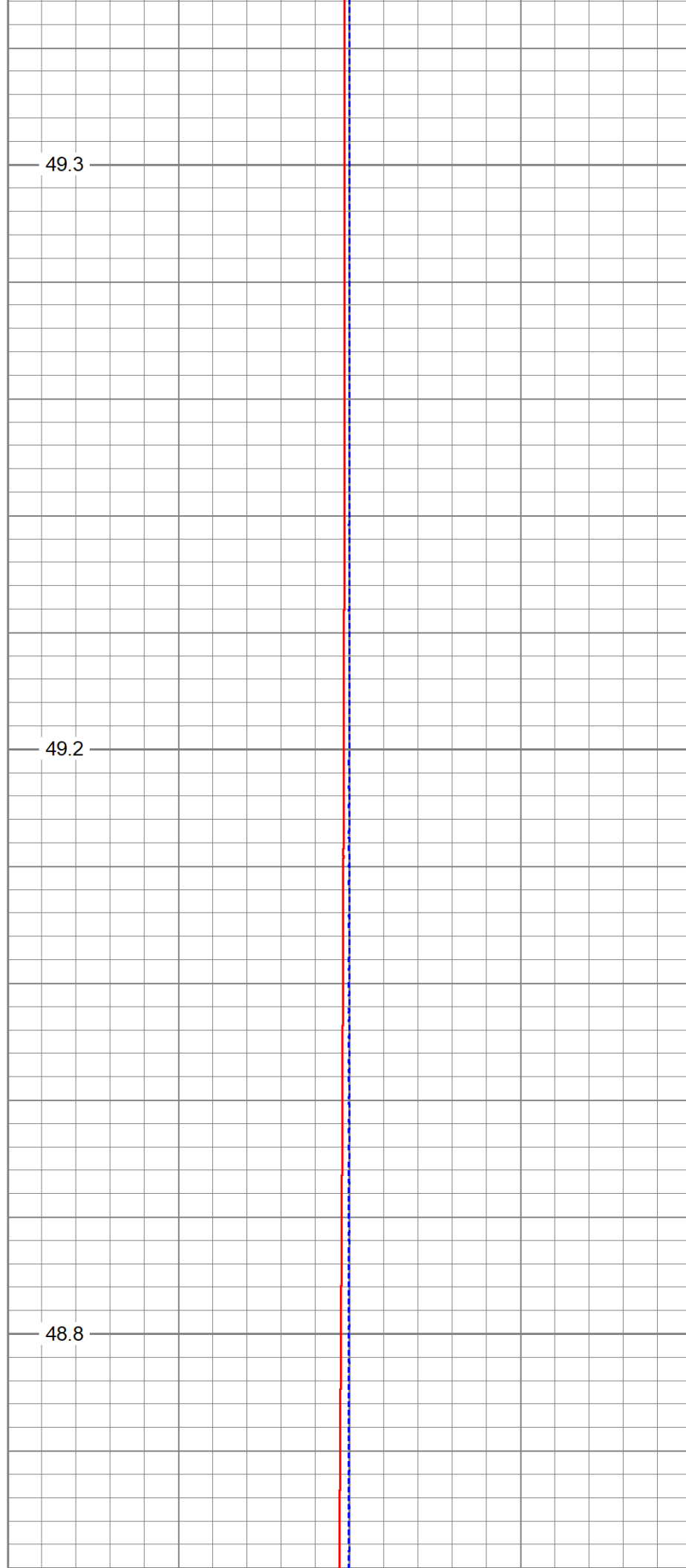


50





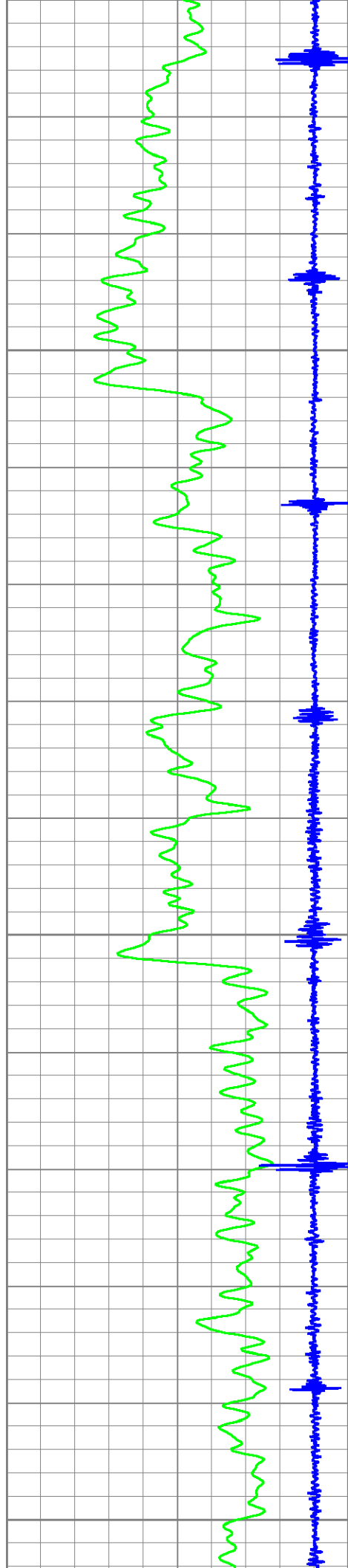
100



49.3

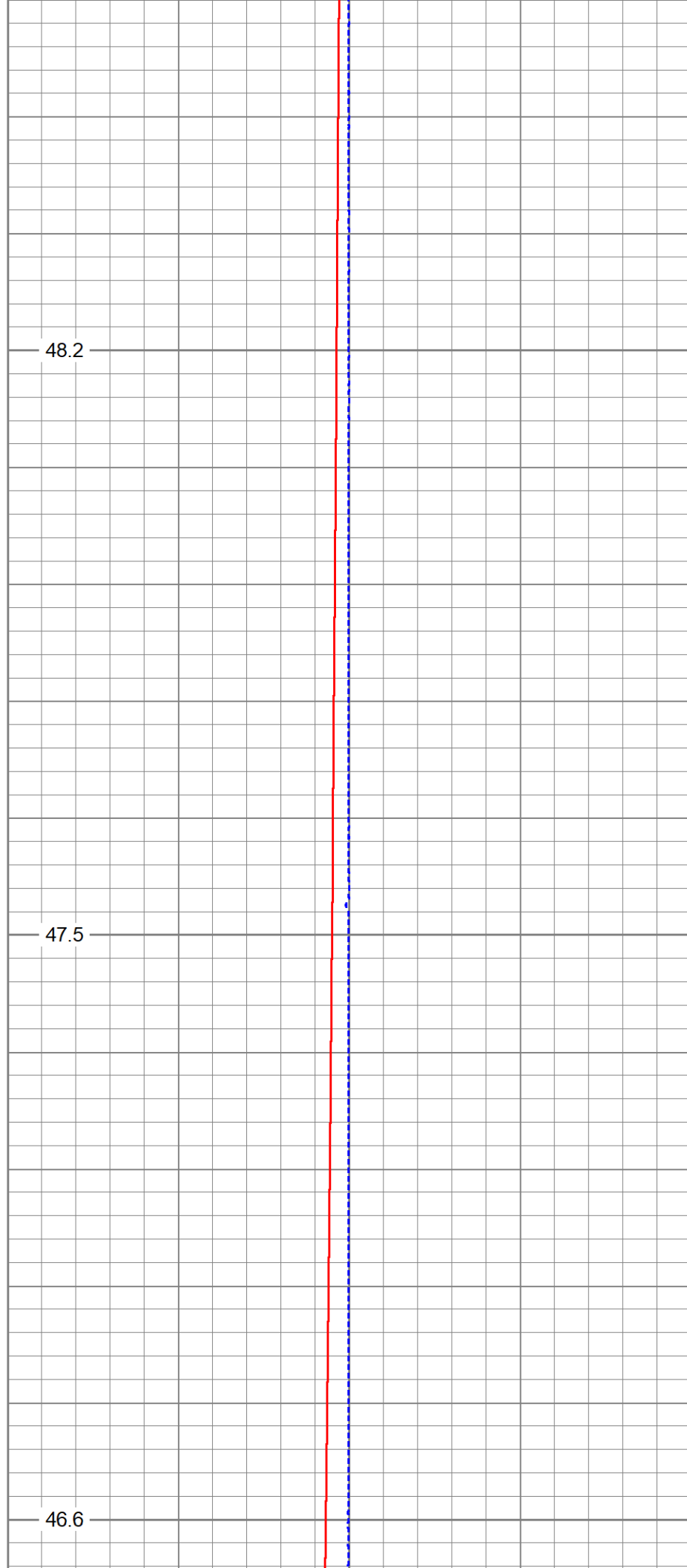
49.2

48.8



150

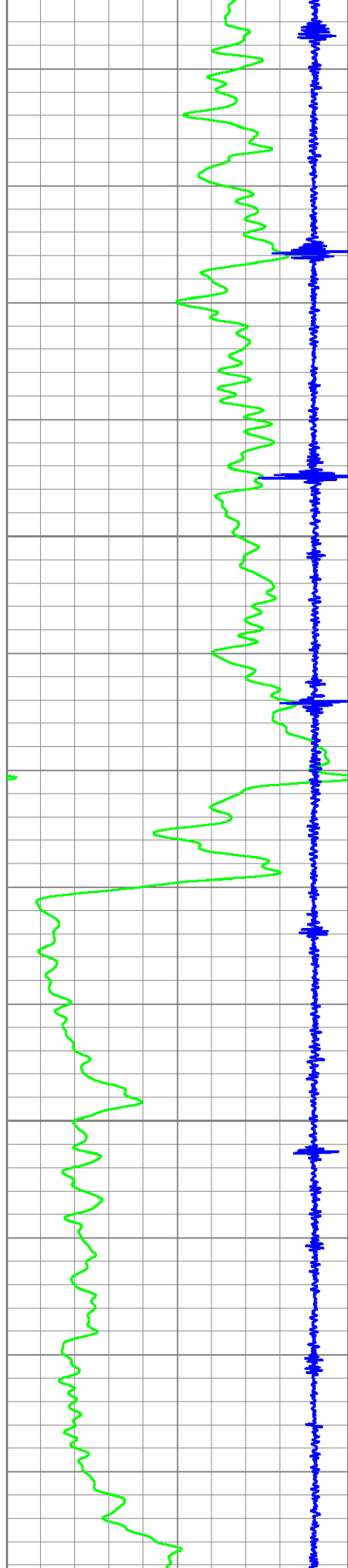
200



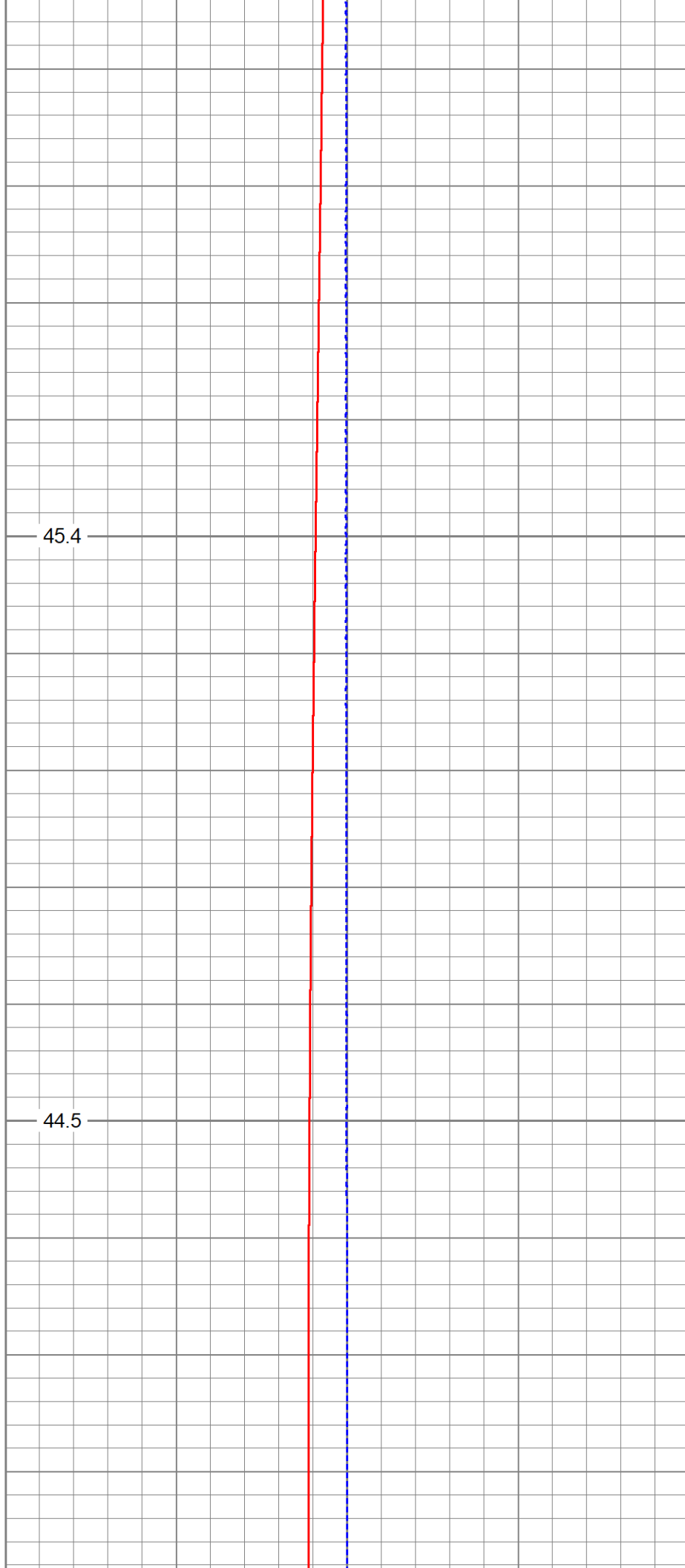
48.2

47.5

46.6

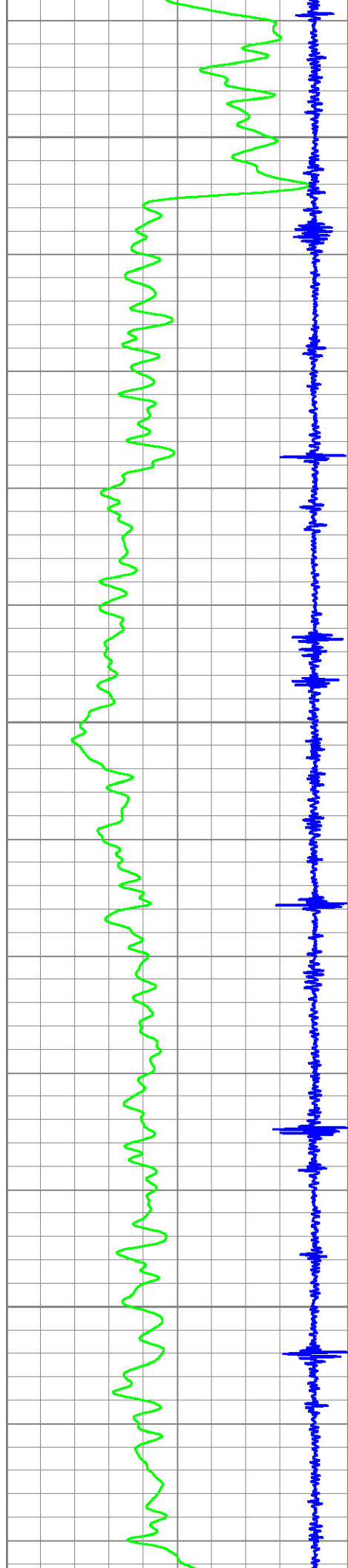


250

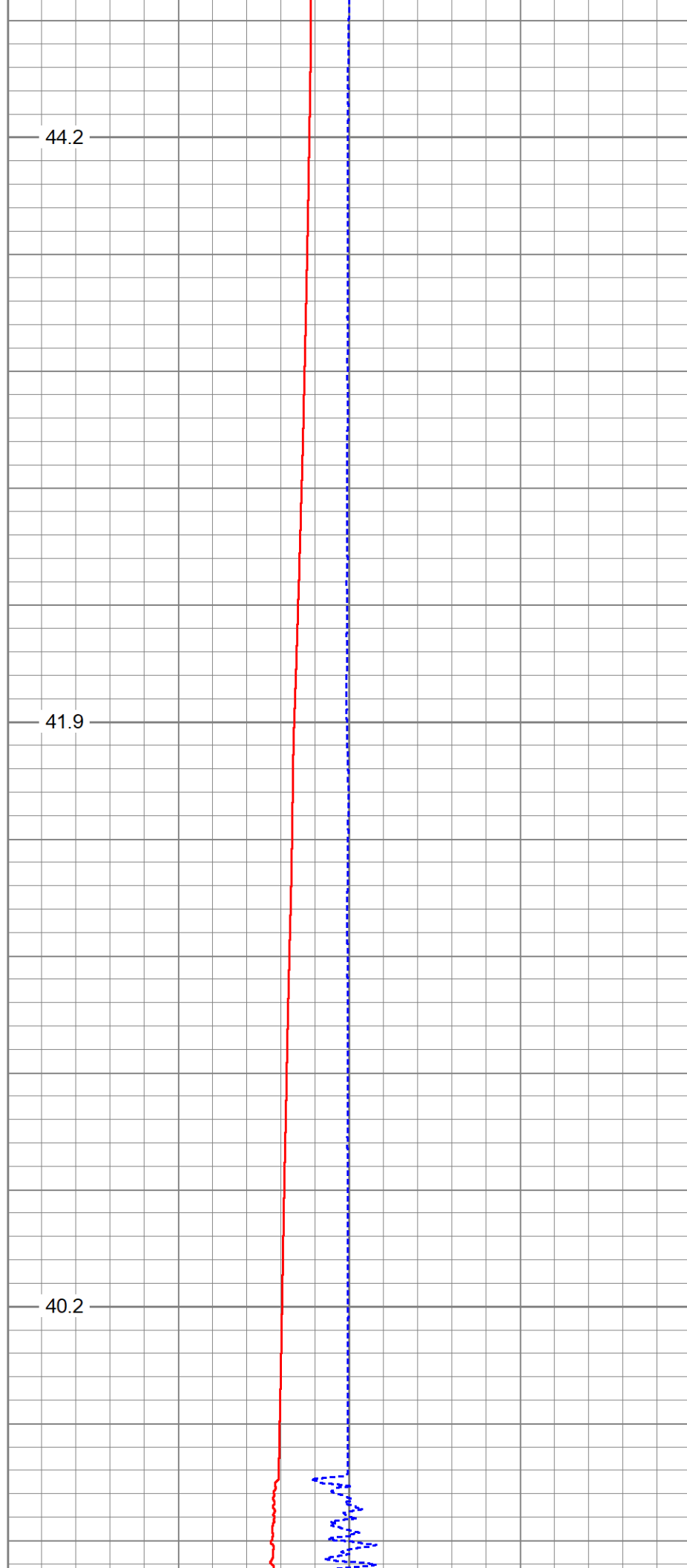


45.4

44.5



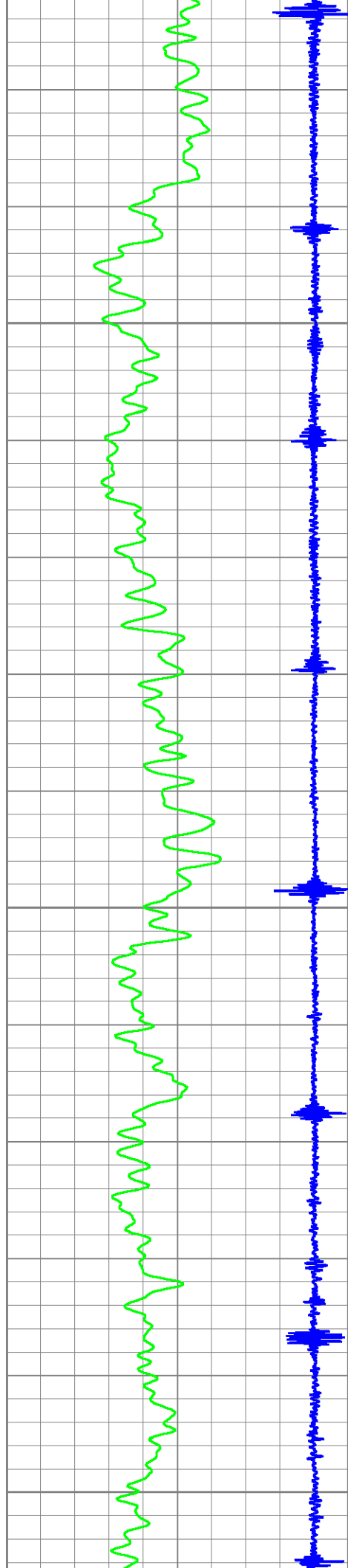
300



44.2

41.9

40.2



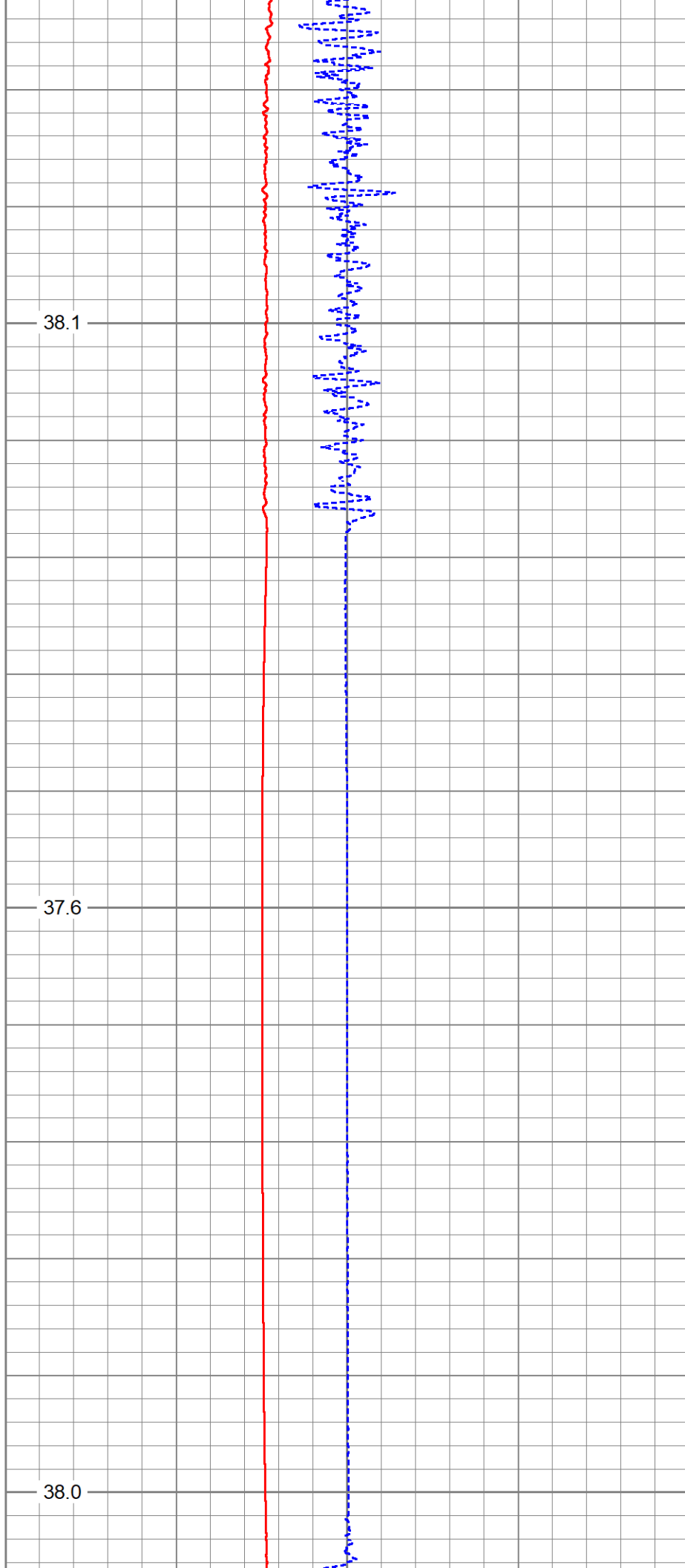
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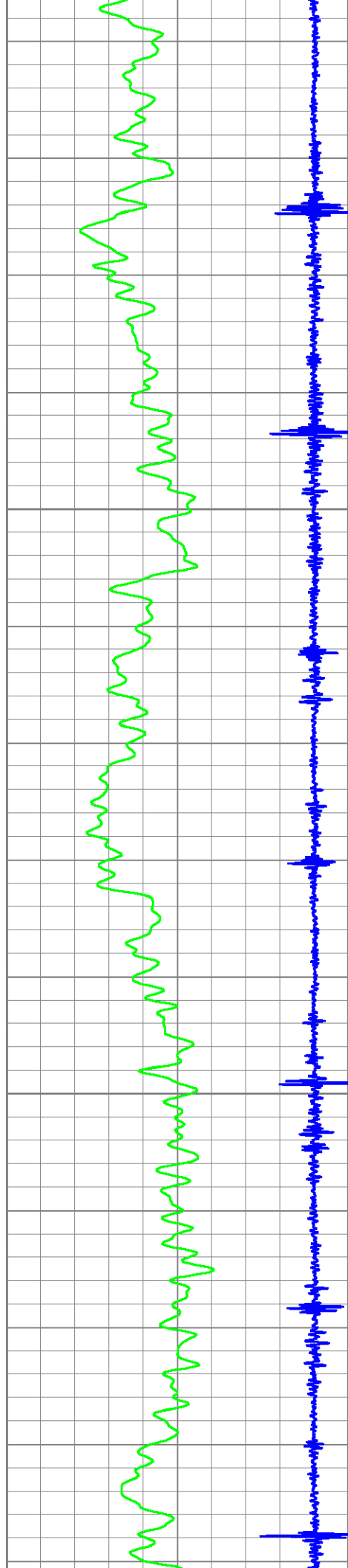
38.1

37.6

400

38.0



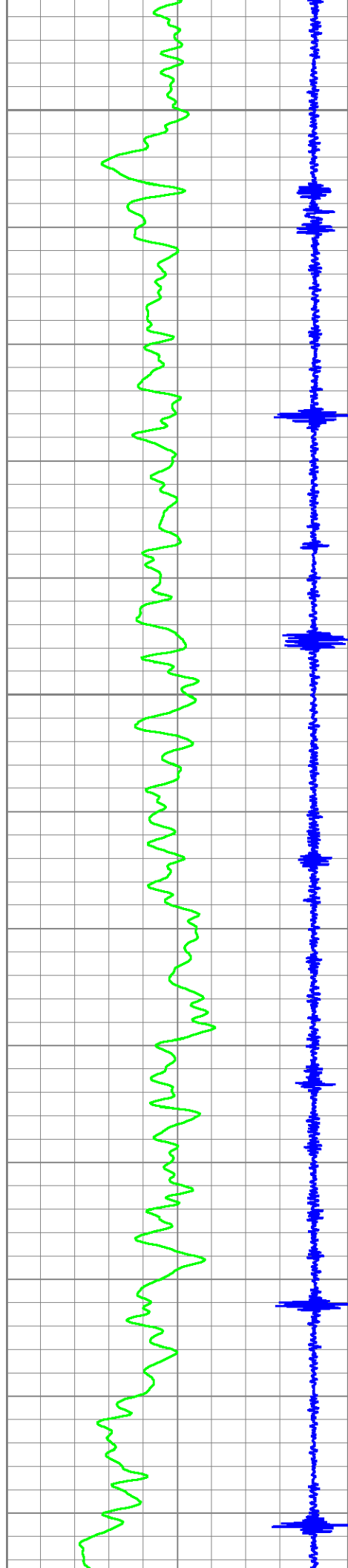


450

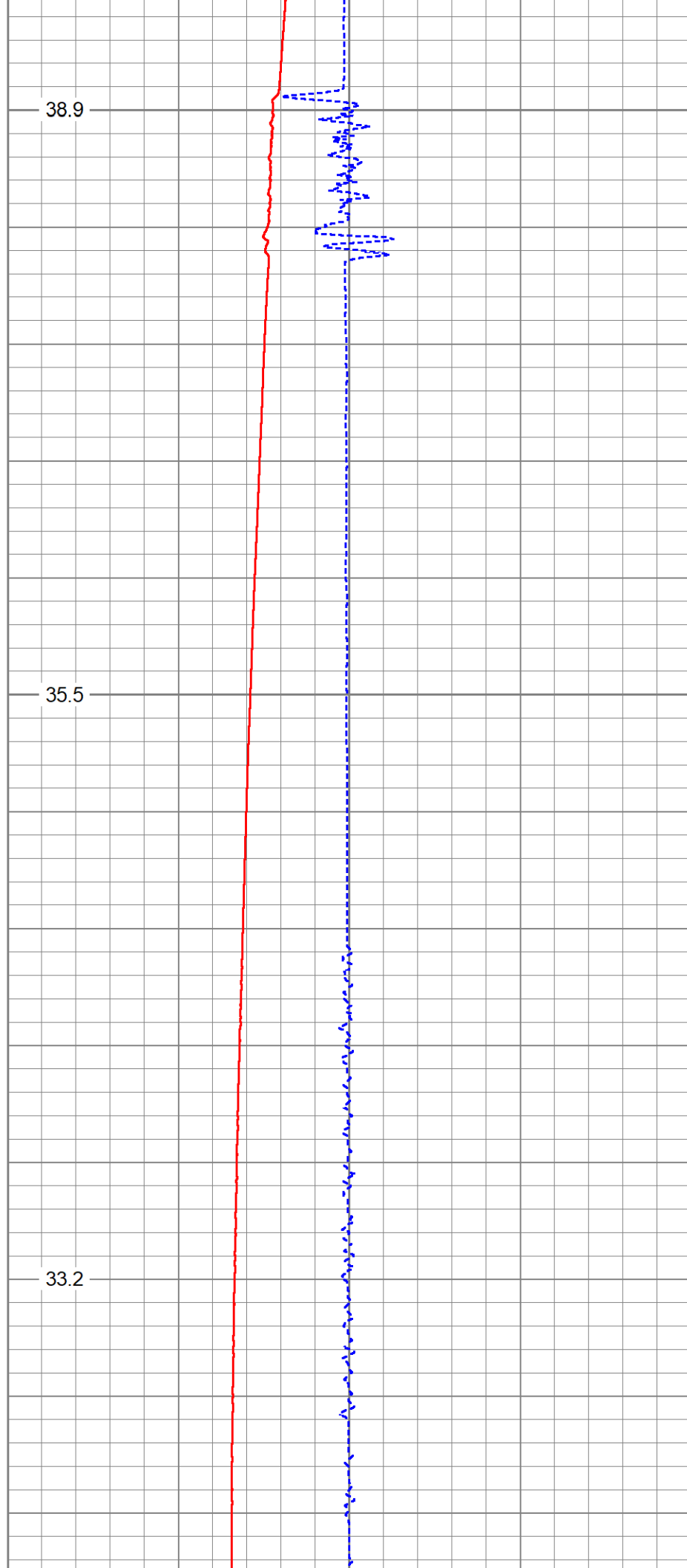


40.2

43.4



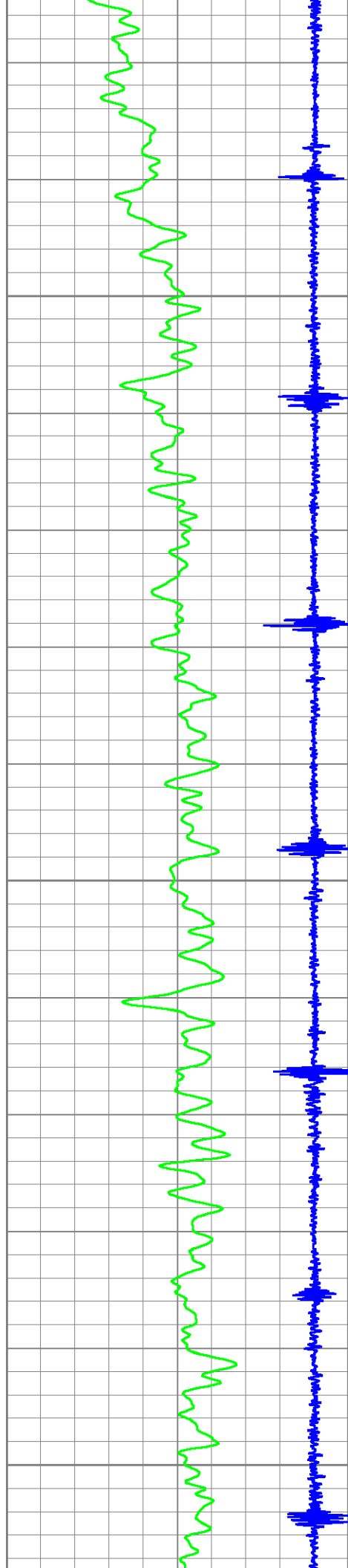
500



38.9

35.5

33.2



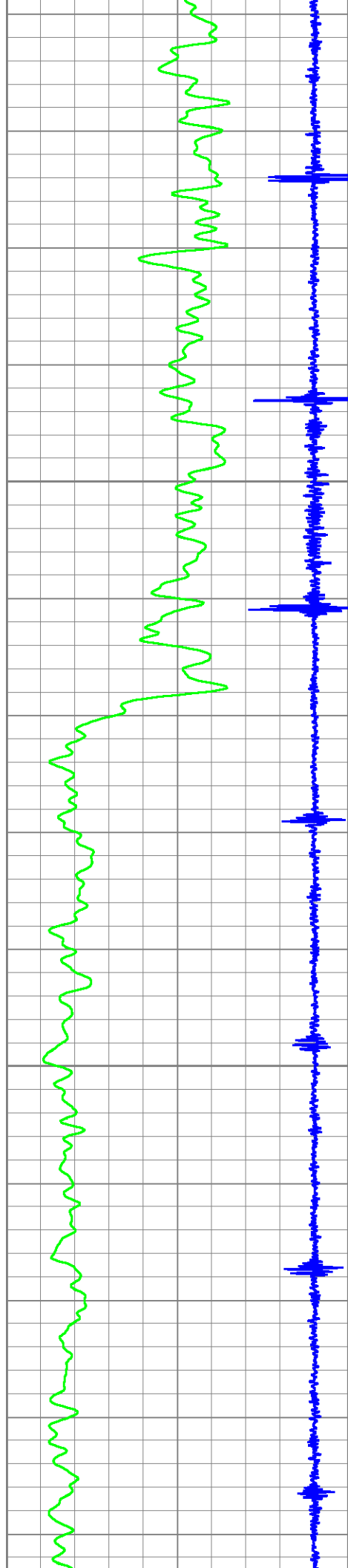
550

33.0

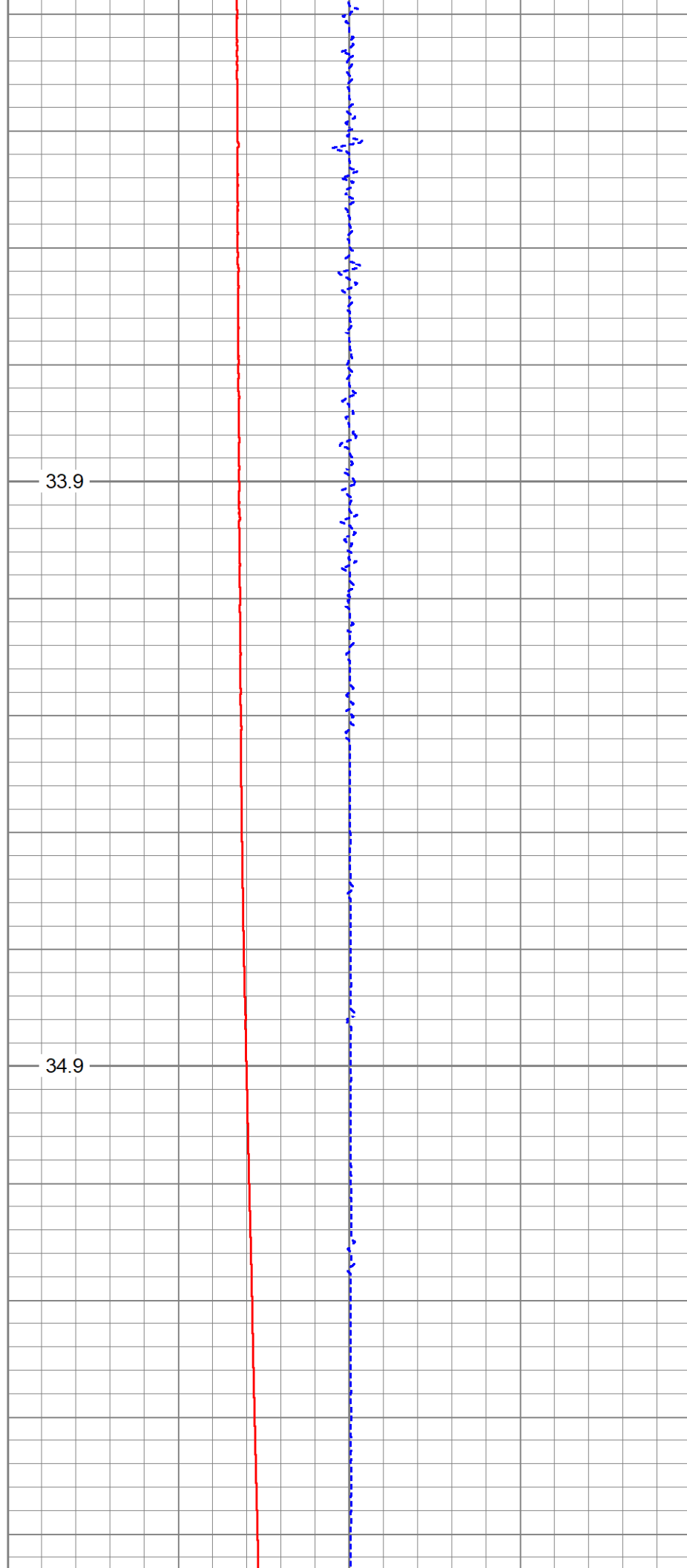
33.0

600

33.5

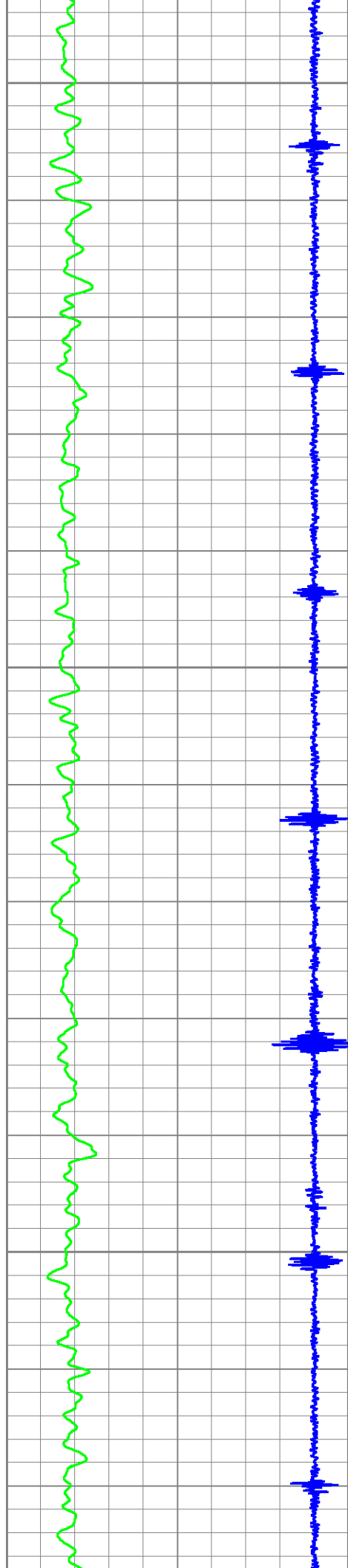


650

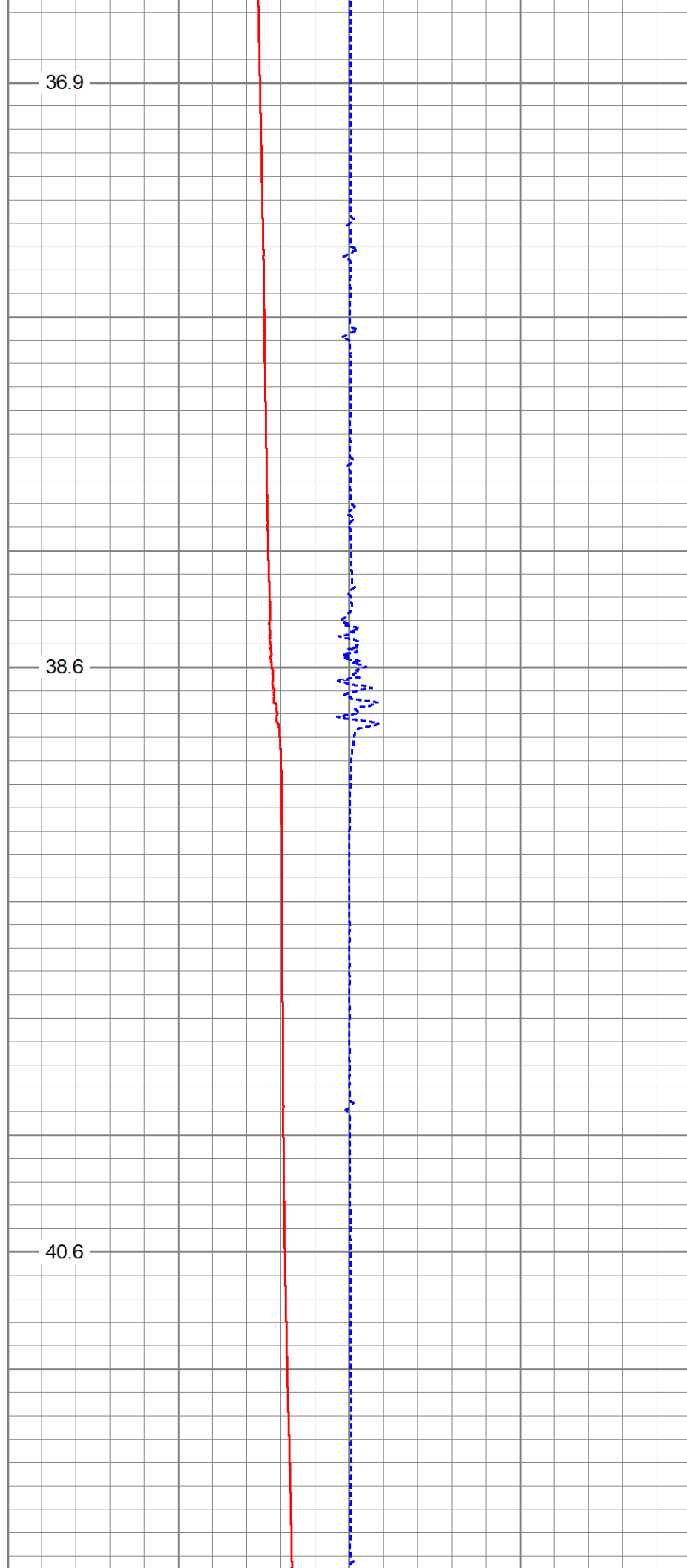


33.9

34.9



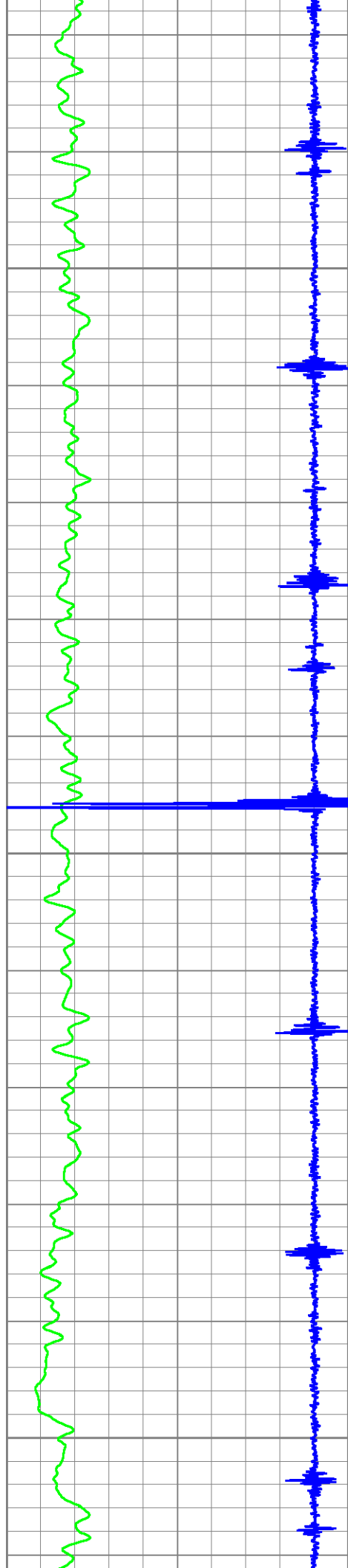
700



36.9

38.6

40.6



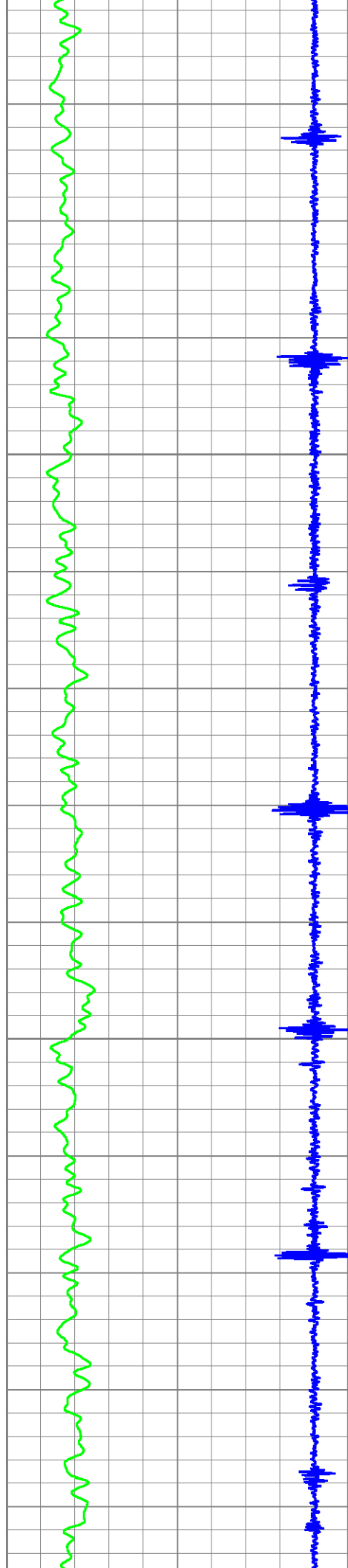
750

42.1

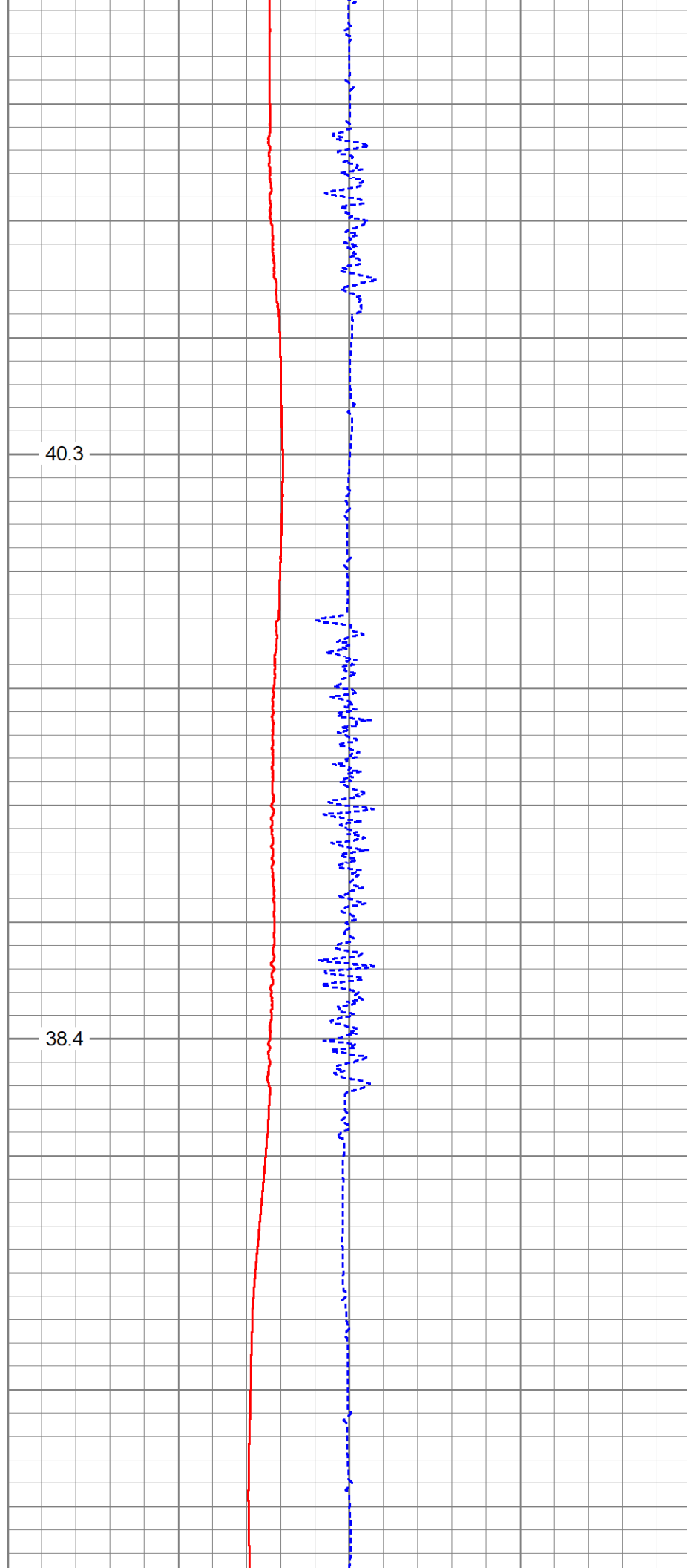
42.4

800

38.7

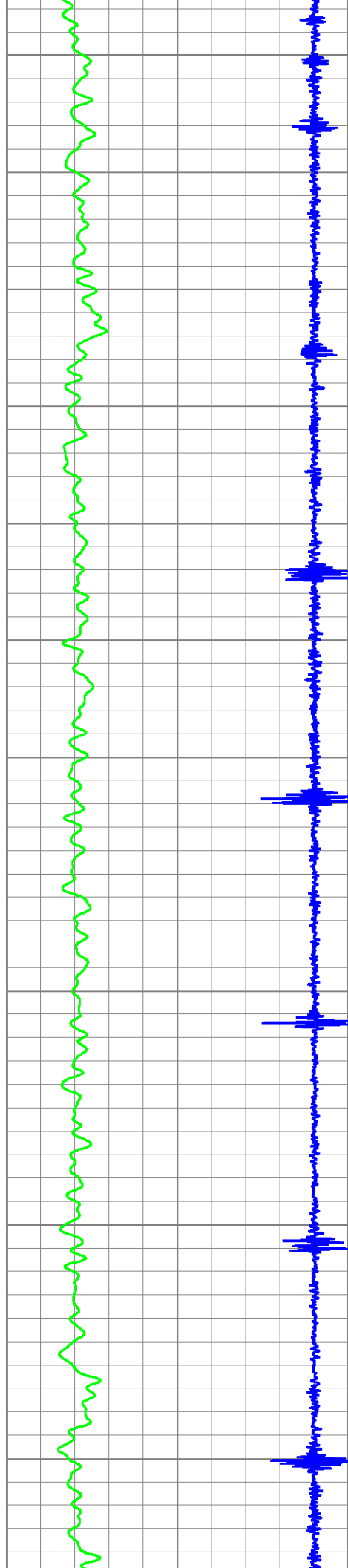


850

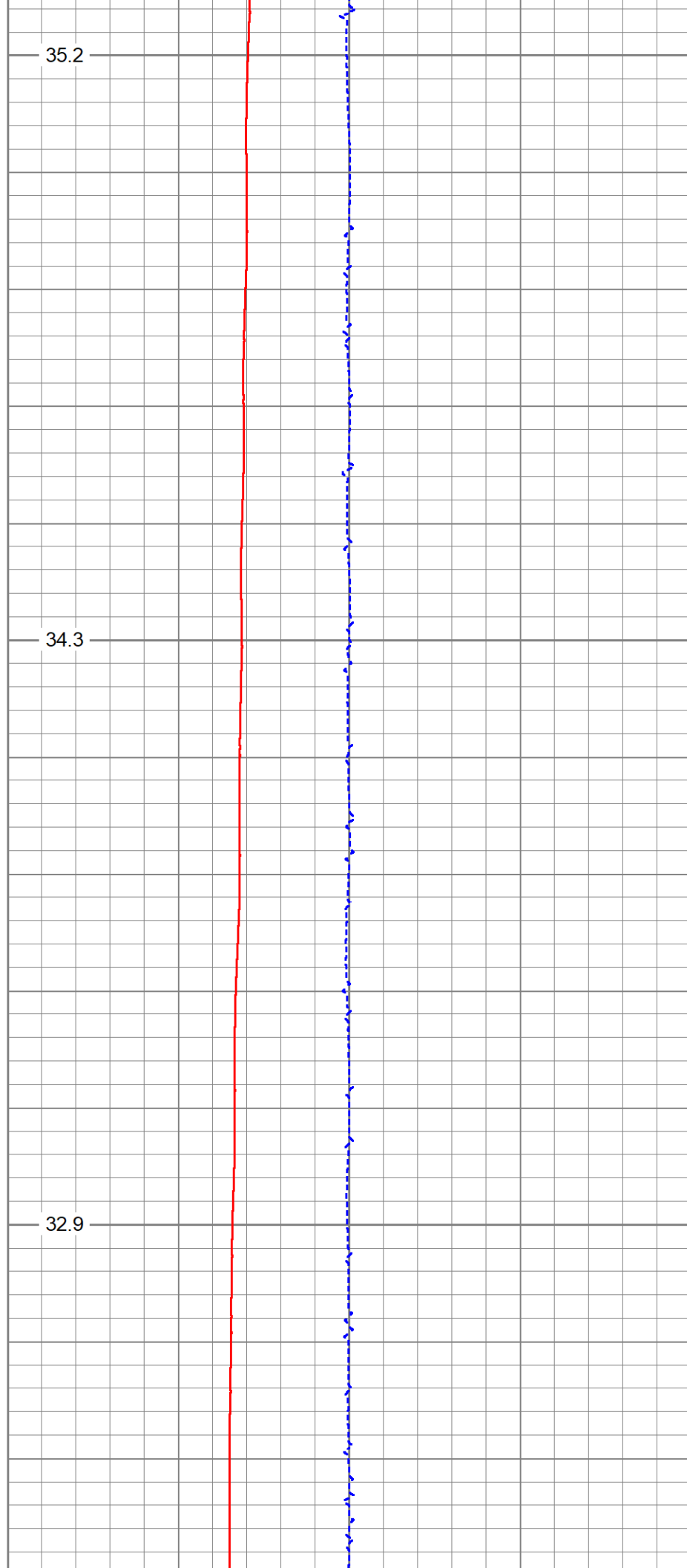


40.3

38.4



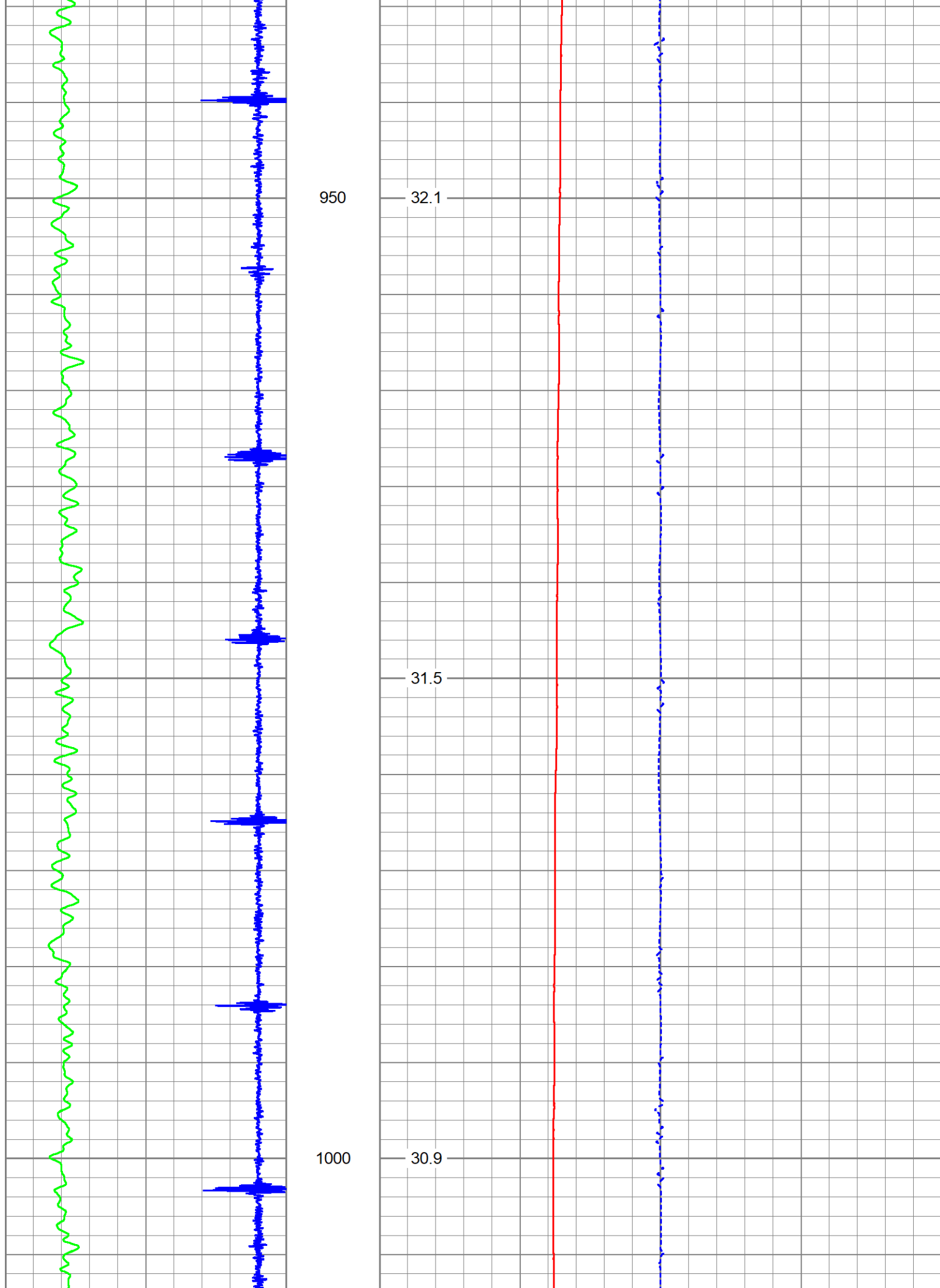
900

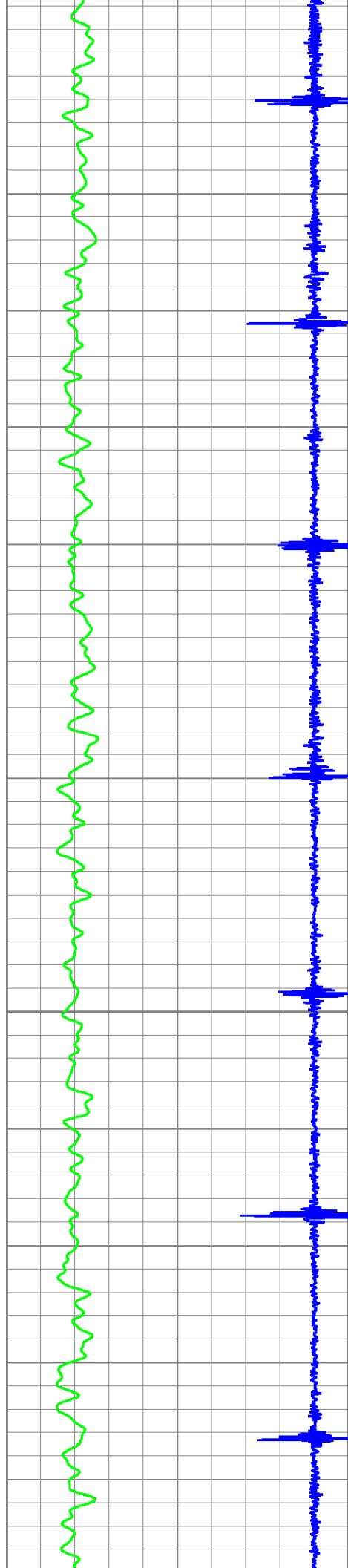


35.2

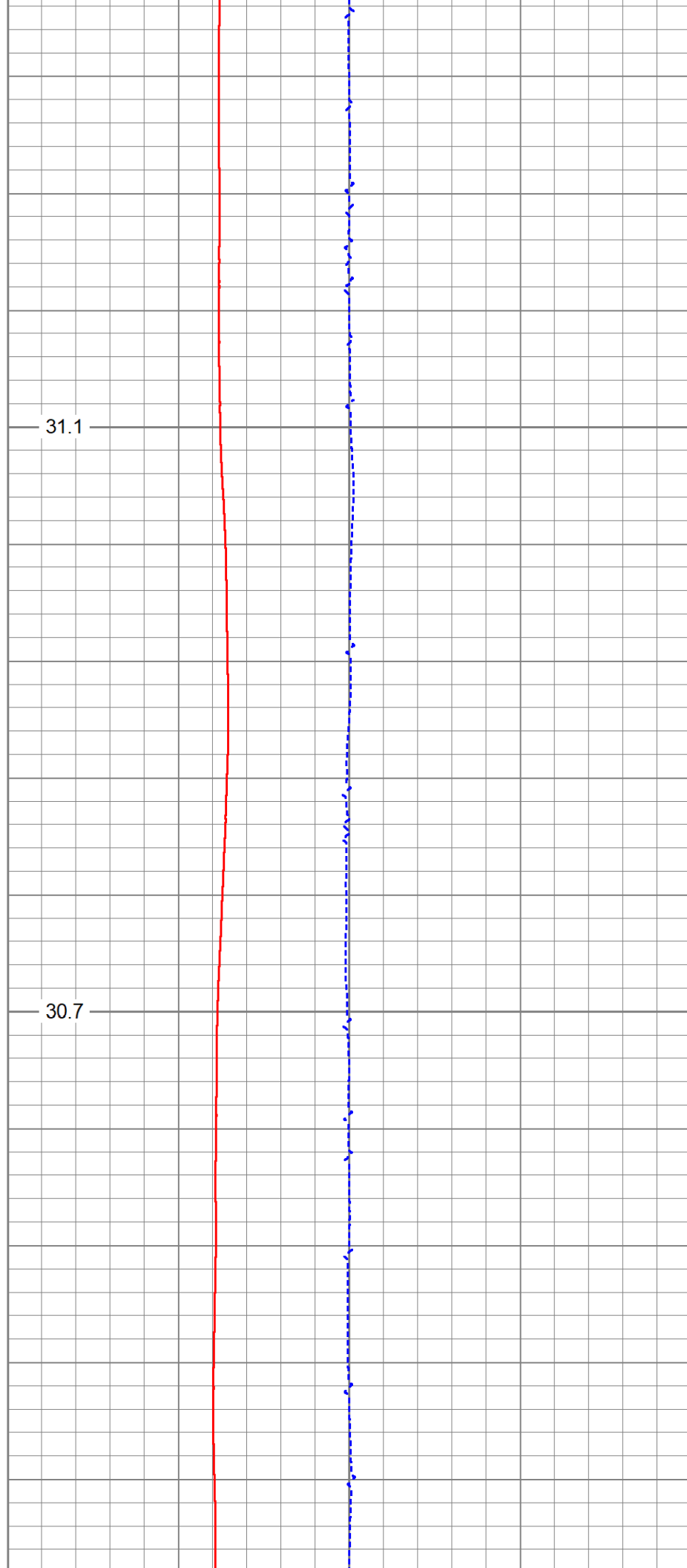
34.3

32.9



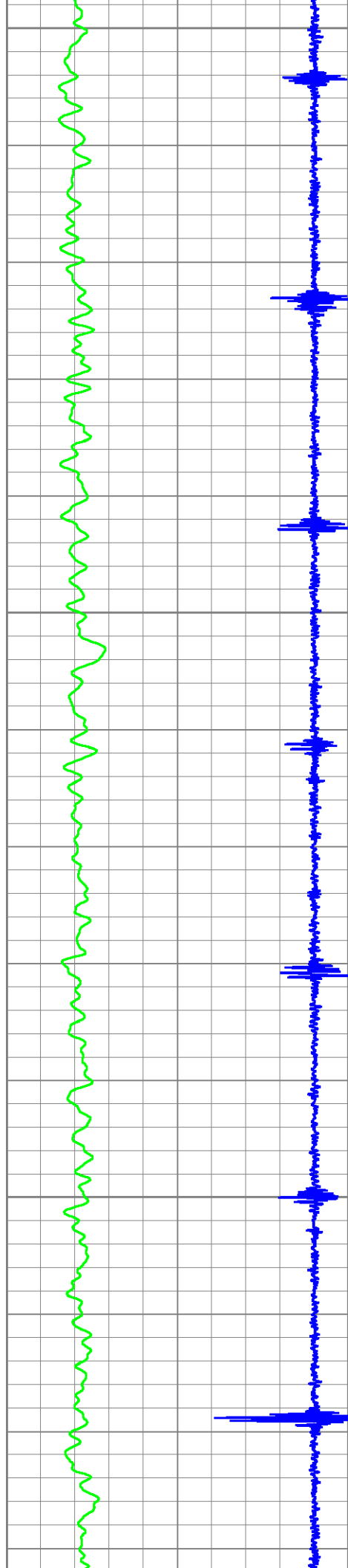


1050

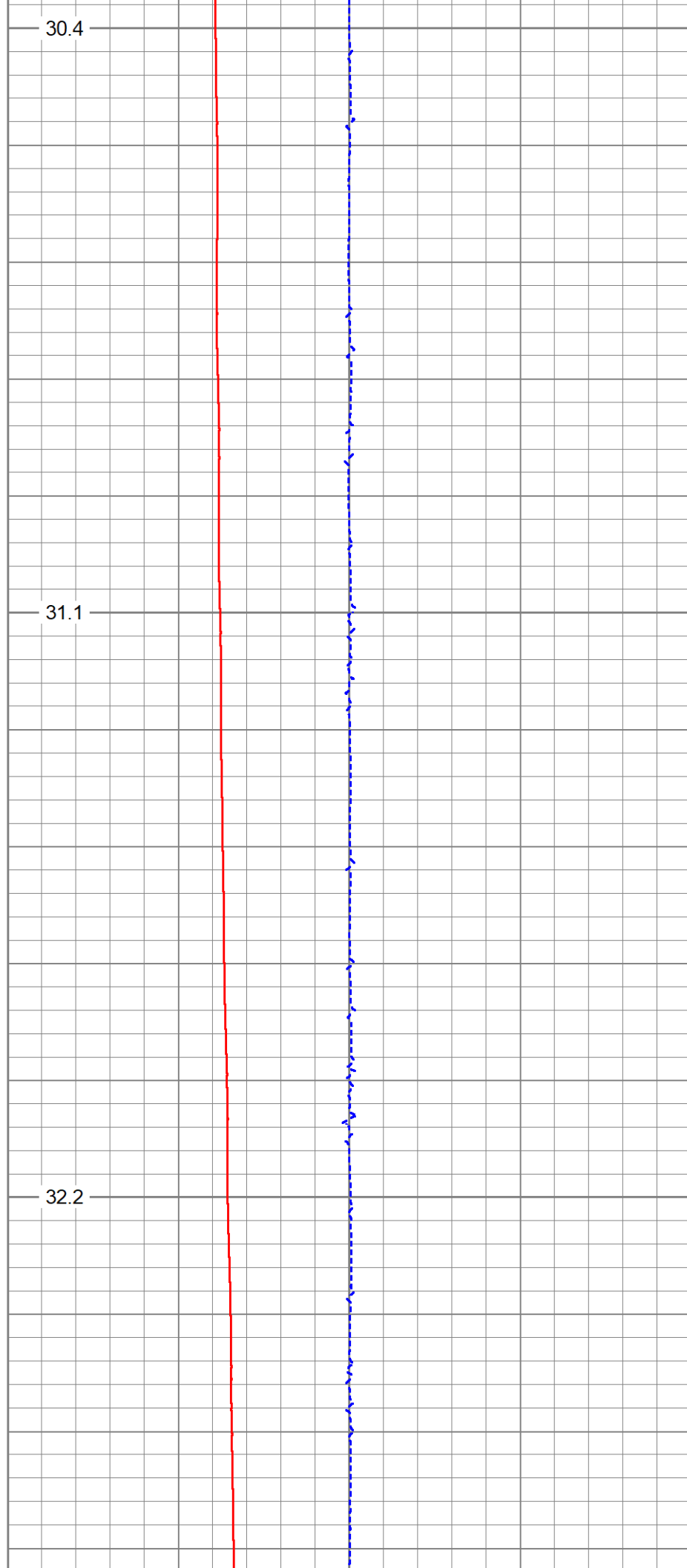


31.1

30.7



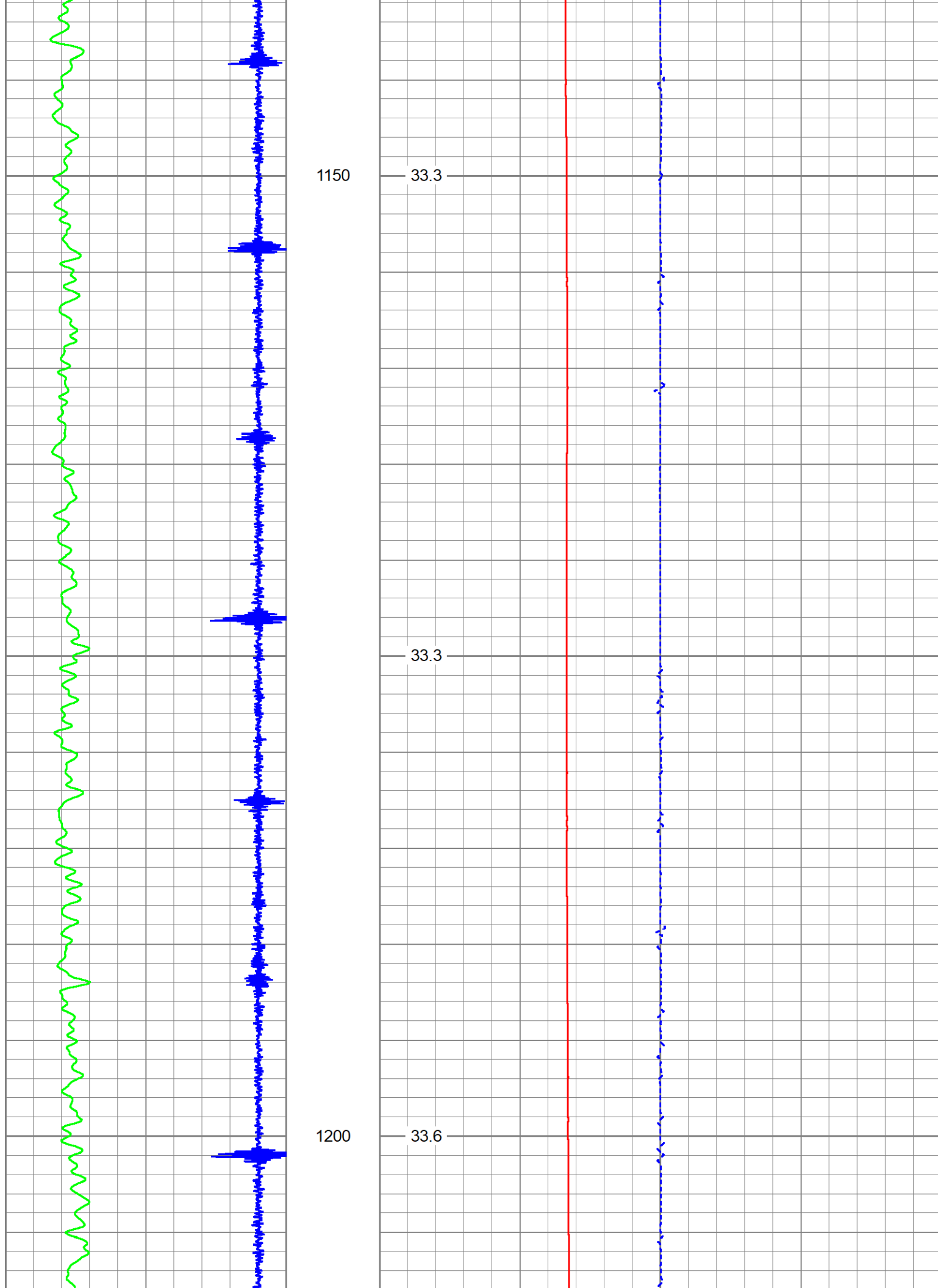
1100

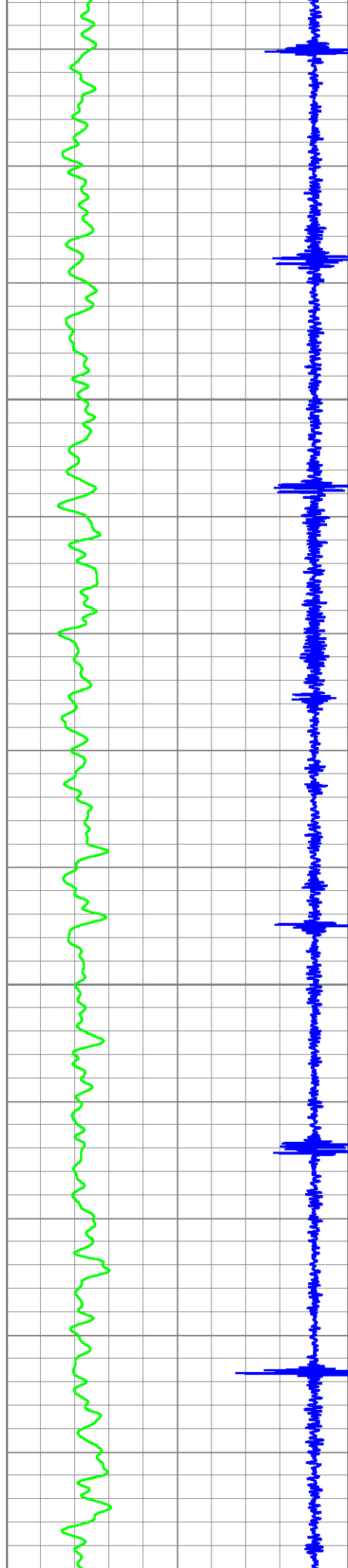


30.4

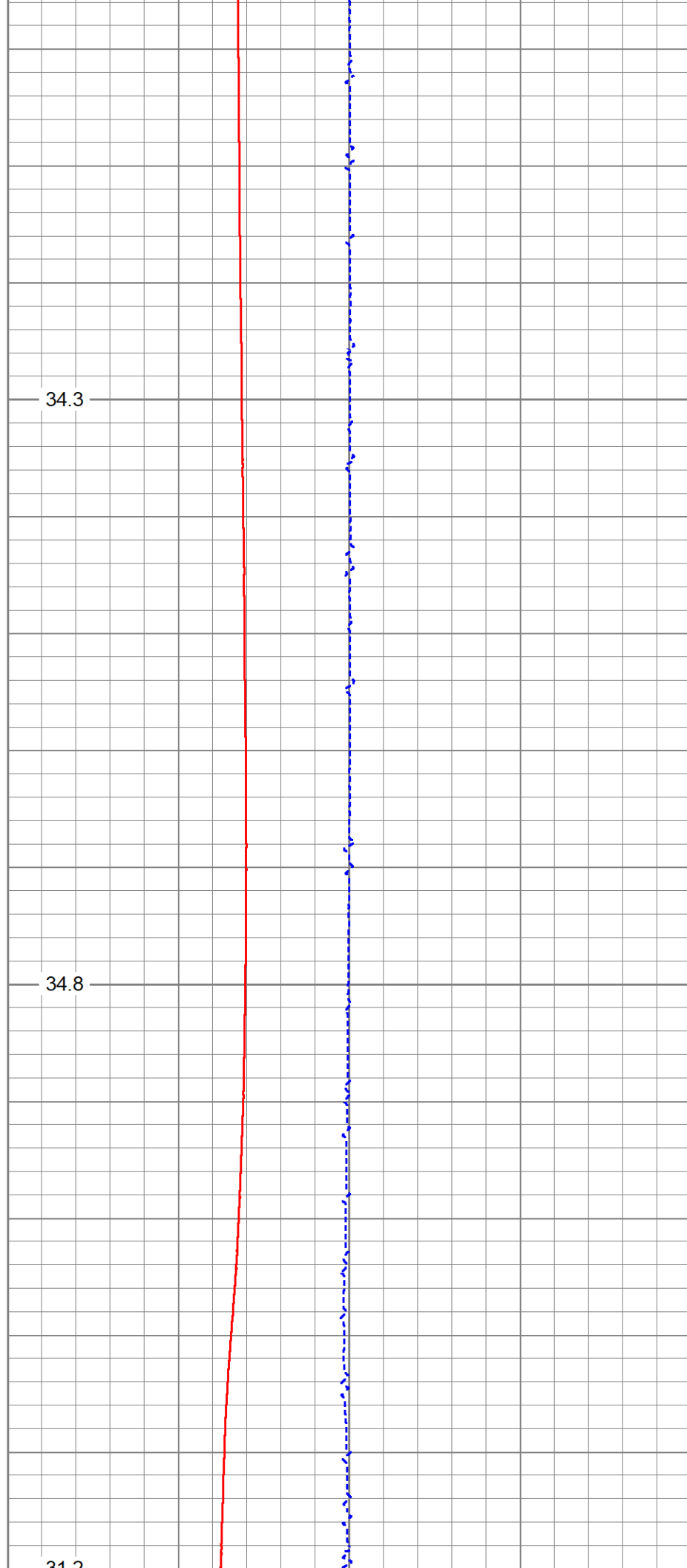
31.1

32.2





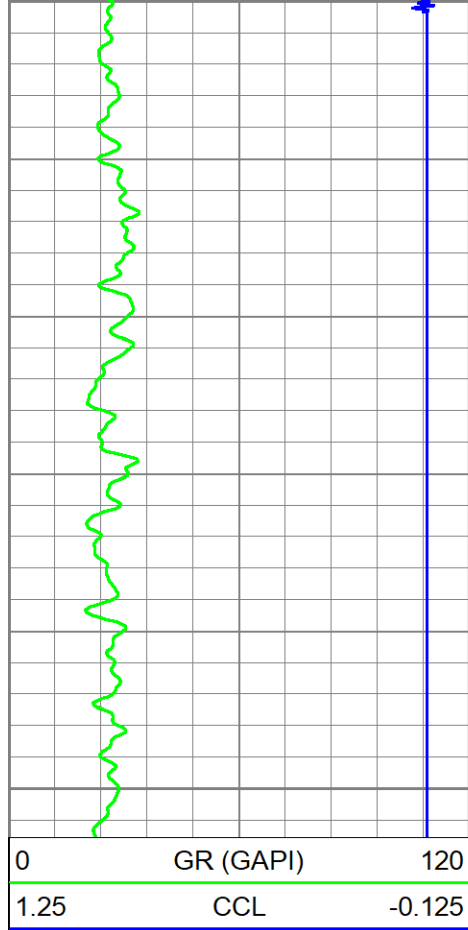
1250



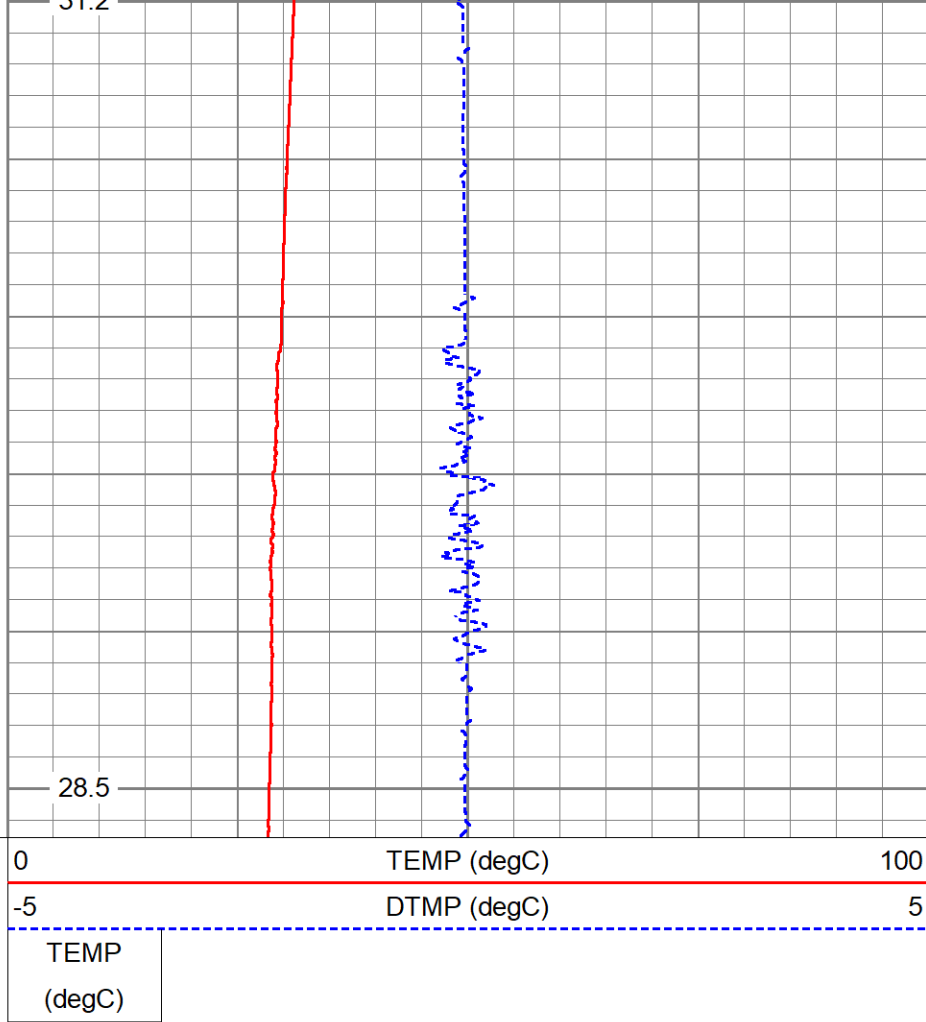
34.3

34.8

31.2



1300



Main Pass



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