

Schlumberger

Company: IMPERIAL OIL RESOURCES LIMITED

Well: IMP 07 H62-H24 COLD LK 15-15-66-4

Field: LEMING

County: ALBERTA

State: \*\*MD\*\*

TEMPERATURE LOG

County: ALBERTA

Field: LEMING

Location: 15-16-66-4W4

Well: IMP 07 H62-H24 COLD LK 15-15-66-4

Company: IMPERIAL OIL RESOURCES LIMITED

LOCATION

15-16-66-4W4

Elev: K.B. 633.92 m

1021 51 506604W/400

G.L. 625.90 m

D.F.

Permanent Datum: GROUND LEVEL

Elev: 625.90 m

Log Measured From: KELLY BUSHING

Drilling Measured From: KELLY BUSHING

API Serial No. 0378169

Section 15-16

Township 066

Range 04W/4

Logging Date	15-Jul-2017			
Run Number	1			
Depth Driller	2085 m			
Schlumberger Depth	656 m			
Bottom Log Interval	654 m			
Top Log Interval	5 m			
Casing Fluid Type	BOILER FEED			
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size	203.200 mm			
From	8 m			
To	2085 m			
Casing/Tubing Size	139.700 mm			
Weight	25.3 kg/m			
Grade	J55			
From	6.33 m			
To	662.84 m			
Maximum Recorded Temperatures	139 degC			
Logger On Bottom	15-Jul-2017	Time	11:30	
Unit Number	3010	NISKU PS		
Recorded By	JONATHAN ATTIG			
Witnessed By	DENIS WOLFE			

PVT DATA					Run 1	Run 2	Run
Oil Density							
Water Salinity							
Gas Gravity							
Bo							
Bw							
1/Bq							
Bubble Point Pressure							
Bubble Point Temperature							
Solution GOR							
Maximum Deviation							
CEMENTING DATA							
Primary/Squeeze			Primary				
Casing String No							
Lead Cement Type							
Volume							
Density							
Water Loss							
Additives							
Tail Cement Type							
Volume							
Density							
Water Loss							
Additives							
Expected Cement Top							
Logging Date							
Run Number							
Depth Driller							
Schlumberger Depth							
Bottom Log Interval							
Top Log Interval							
Casing Fluid Type							
Salinity							
Density							
Fluid Level							
BIT/CASING/TUBING STRING							
Bit Size							
From							
To							
Casing/Tubing Size							
Weight							
Grade							
From							
To							
Maximum Recorded Temperatures							
Logger On Bottom			Time				
Unit Number		Location					
Recorded By							
Witnessed By							

**DEPTH SUMMARY LISTING**

Date Created: 15-JUL-2017 12:34:38

**Depth System Equipment**

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: Calibration Date: Calibrator Serial Number: Calibration Cable Type: 1-33A-SLC Wheel Correction 1: -1 Wheel Correction 2: -2	Type: CMTD-B/A Serial Number: Calibration Date: Calibrator Serial Number: Number of Calibration Points: 0	Type: 1-33A-SLC Serial Number: 1 Length: 5000 M Conveyance Method: Wireline Rig Type: LAND

**Depth Control Parameters**

Log Sequence: First Log In the Well  
Rig Up Length At Surface: 0.00 M  
Rig Up Length At Bottom: 0.00 M  
Rig Up Length Correction: 0.00 M  
Stretch Correction:  
Tool Zero Check At Surface:

**Depth Control Remarks**

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED
2. IDW USED AS PRIMARY DEPTH CONTROL
3. Z-CHART USED AS SECONDARY DEPTH CONTROL
- 4.
- 5.
- 6.

**DISCLAIMER**

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

**OTHER SERVICES1**

OS1: GR/CCL  
OS2:  
OS3:  
OS4:  
OS5:

**OTHER SERVICES2**

OS1:  
OS2:  
OS3:  
OS4:  
OS5:

REMARKS: RUN NUMBER 1

LOGGED DOWN @ 9 M/MIN

NO FLUID LEVEL TAGGED

LAST FLUID MOVEMENT: 11-JUL-2017

MAX TEMP 139 DEGC @ 556 MKB

CLEARWATER TOP @ 428.93 MKB

BURST NIPPLE TOP @ 635.45 MKB

PSN TOP @ 654.62 MKB

REMARKS: RUN NUMBER 2

YOUR CREW TODAY: J.ATTIG, C.DYCK

SERVICE ORDER #:  
PROGRAM VERSION:  
FLUID LEVEL:

STOP

[illegible]

RUN 2

WITM-A  
PSC\_16MHZ

DOWNHOLE EQUIPMENT

MH-22  
MH-22

10.06

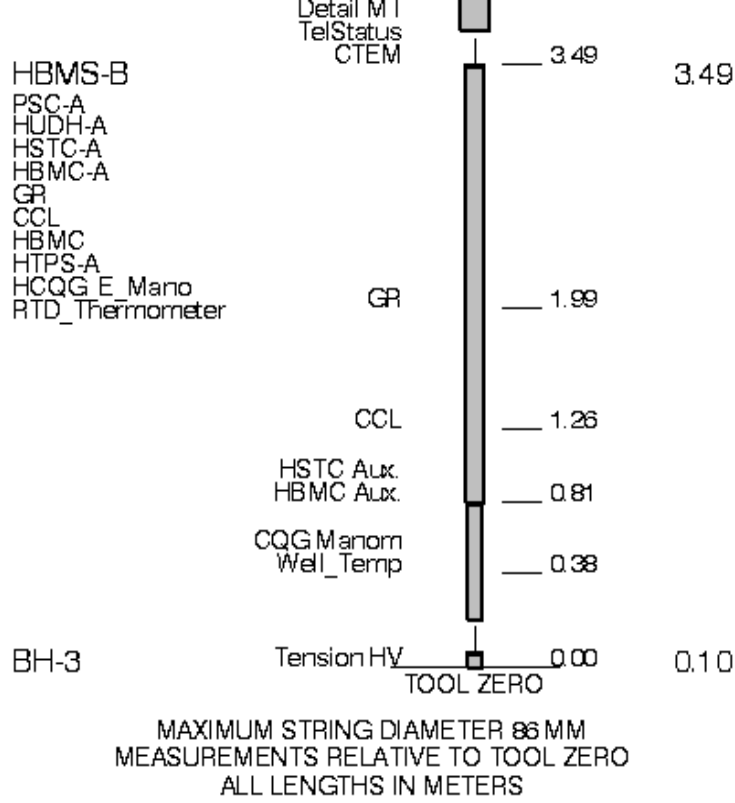
AH-38



9.58

AH-TRACTOR  
AH-TRACTOR

9.49



Schlumberger

## TEMP DOWN

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES LIMITED

Well: IMP07 H62-H24 COLD LK 2-20-66-4

### Input DLIS Files

HBMS\_003PUP

FN:1

15-Jul-2017 11:22

548.2 M

1.8 M

### Output DLIS Files

DEFAULT

HBMS\_011PUP

FN:9

PRODUCER

15-Jul-2017 13:30

550.2 M

3.8 M

### OP System Version: 19C2-270

HBMS-B

19C2-270

### PIP SUMMARY

☒ Time Mark Every 60 S

Well Temperature (WTEP)  
(DEGC) 0 250

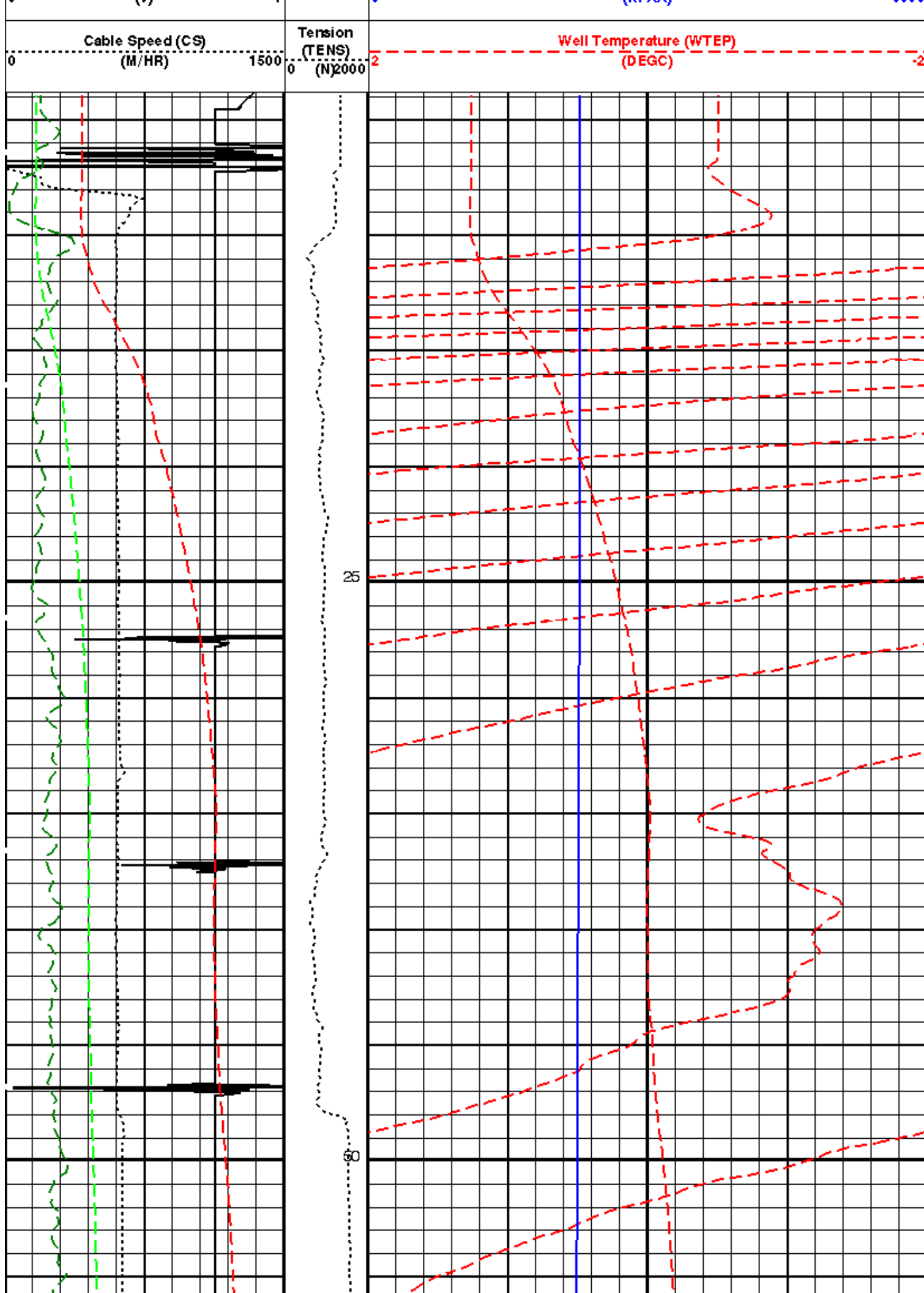
Well Temperature (WTEP)  
(DEGC) 0 100

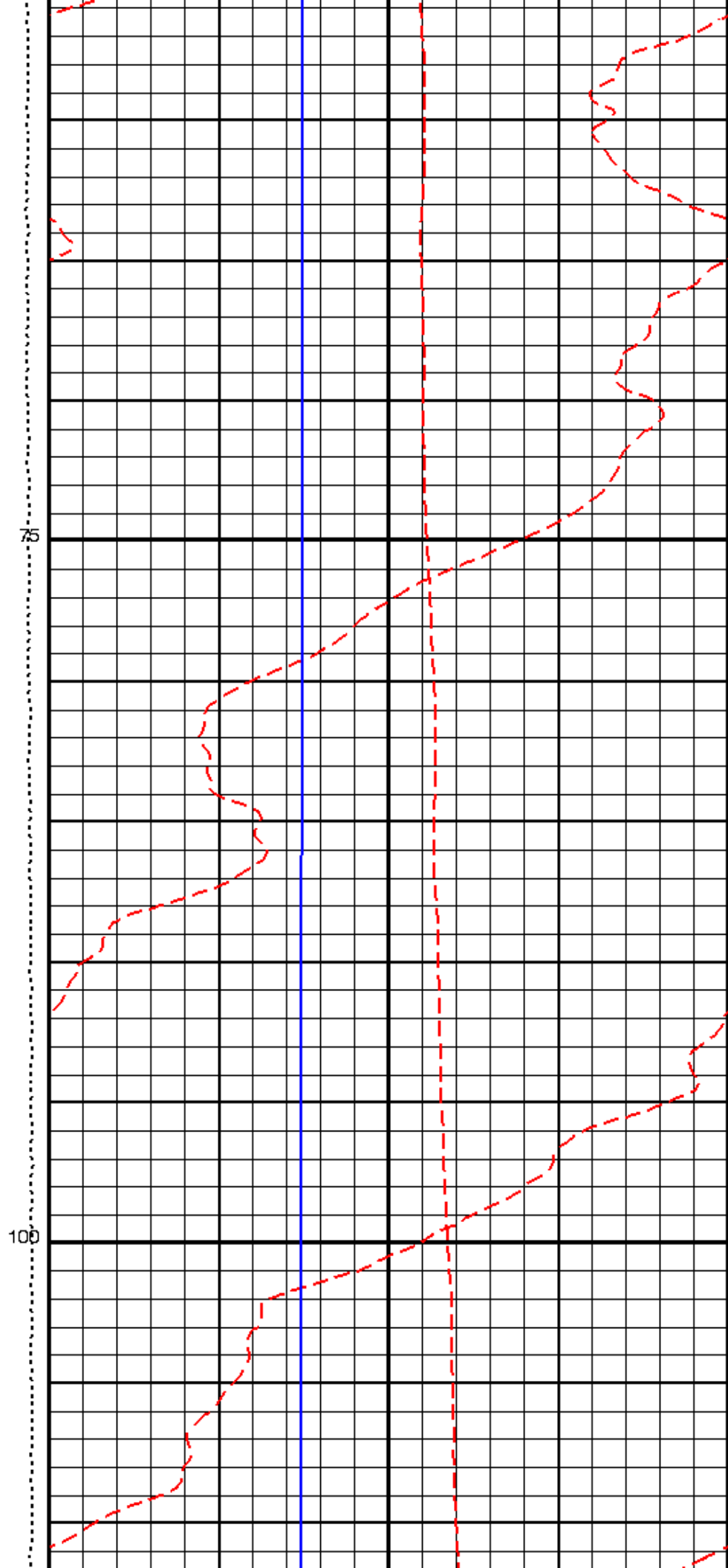
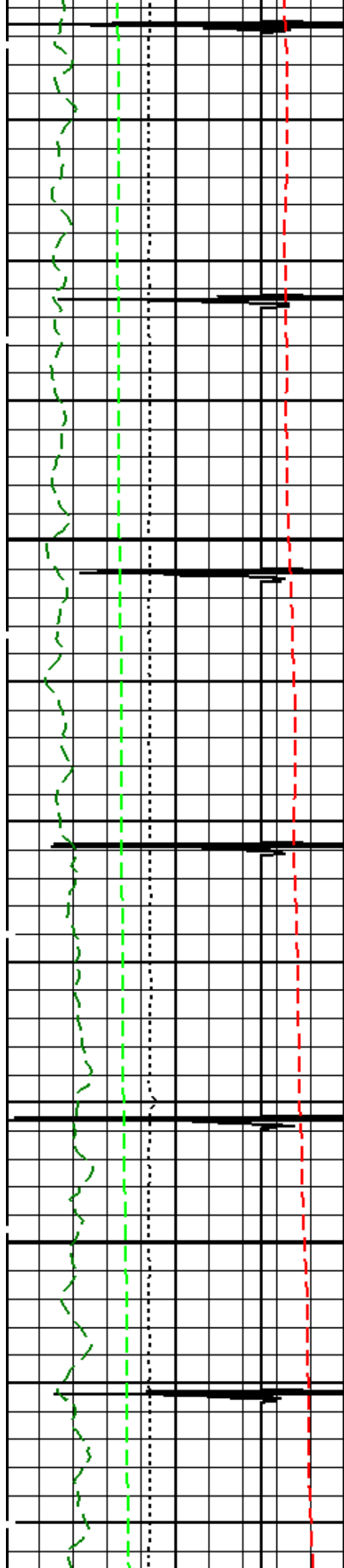
Gamma Ray (GR)  
(GAPI) 0 100

Discriminated CCL (CCLD)  
(V) 3 -1

Well Temperature (WTEP)  
(DEGC) 0 150

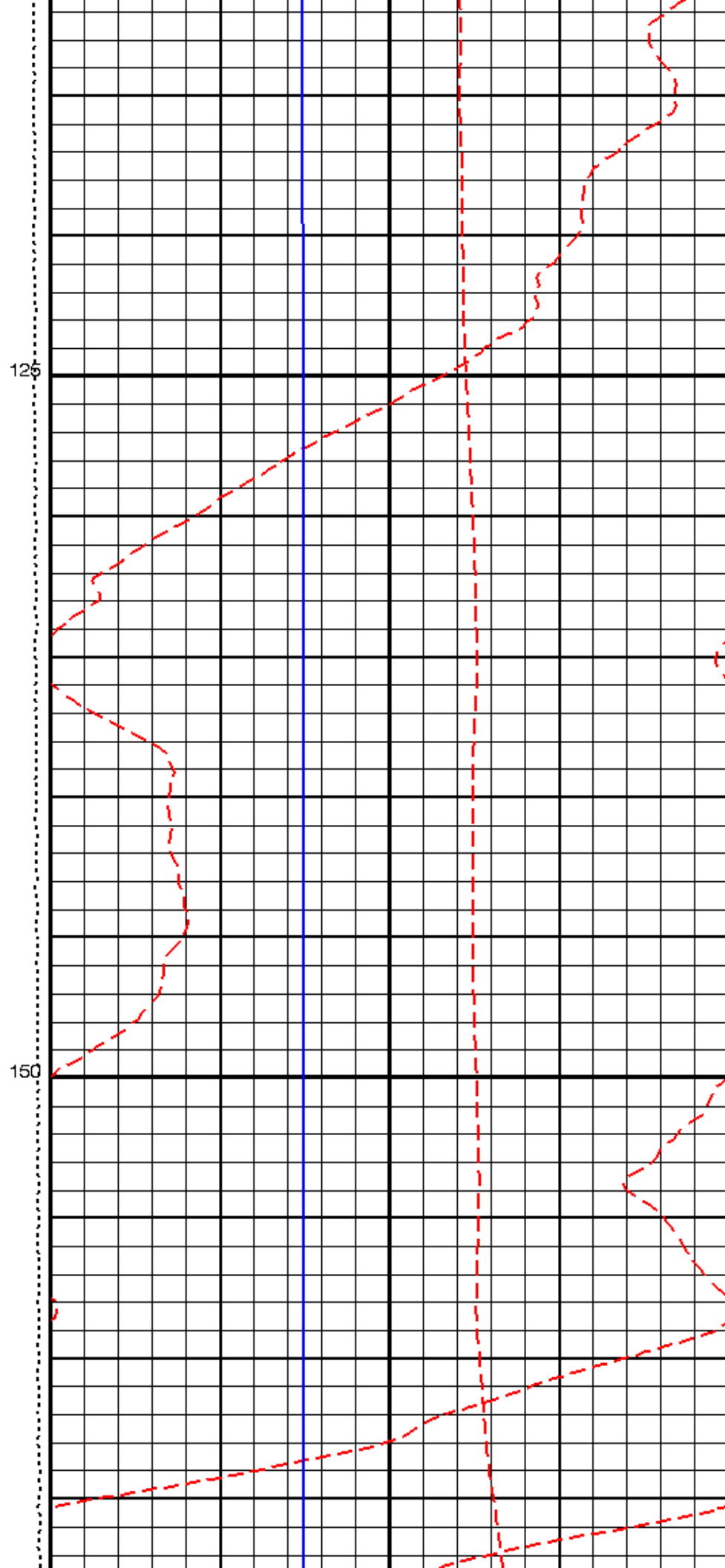
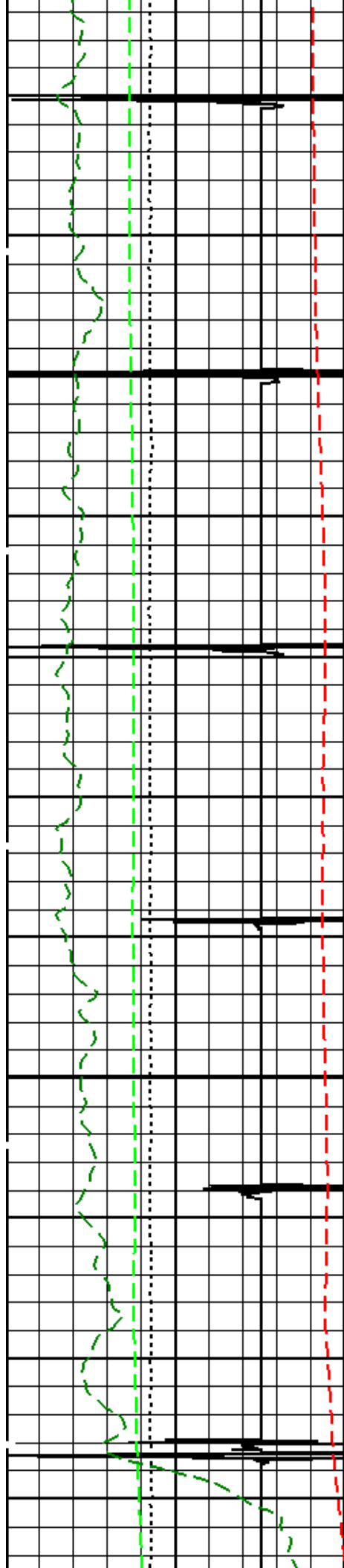
Well Pressure (WPRES)  
(KPAA) 0 5000

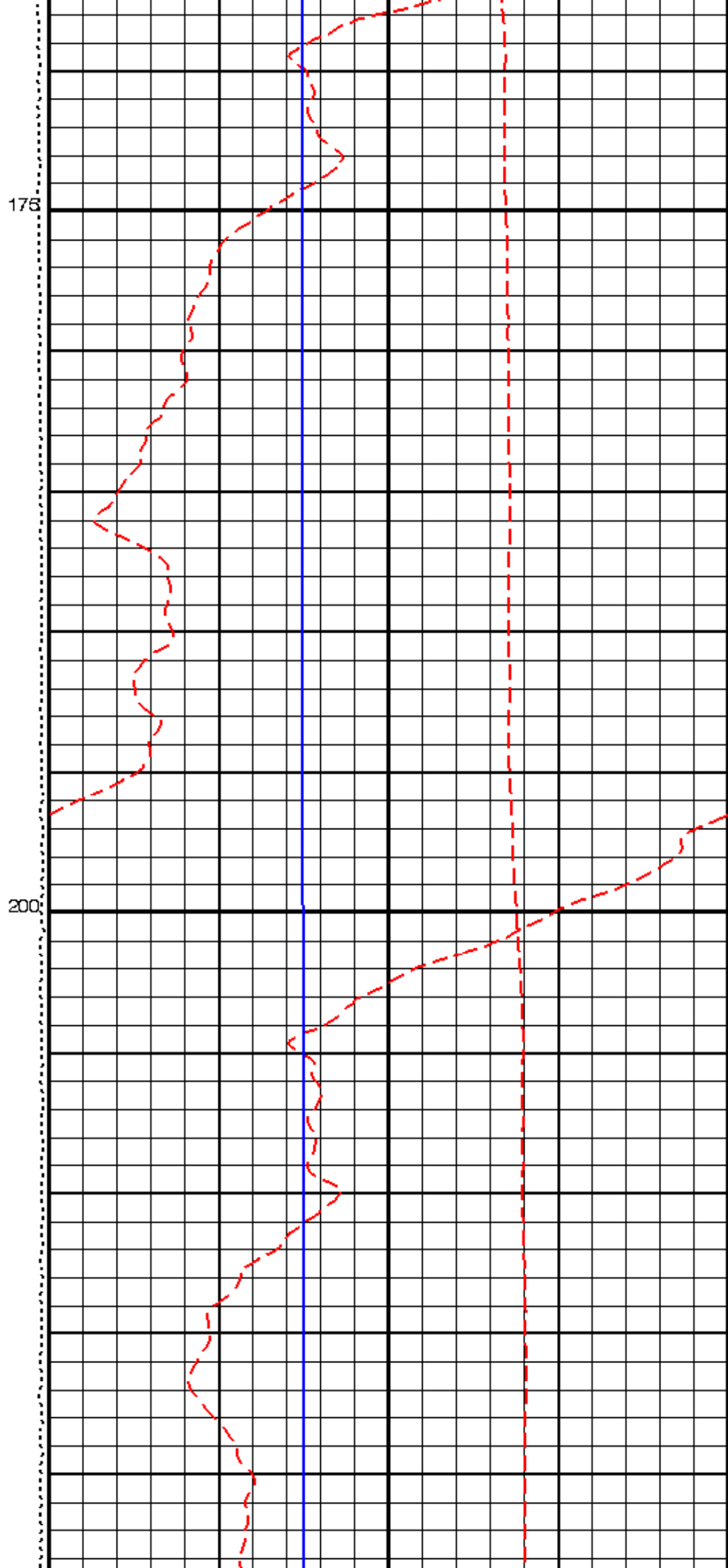
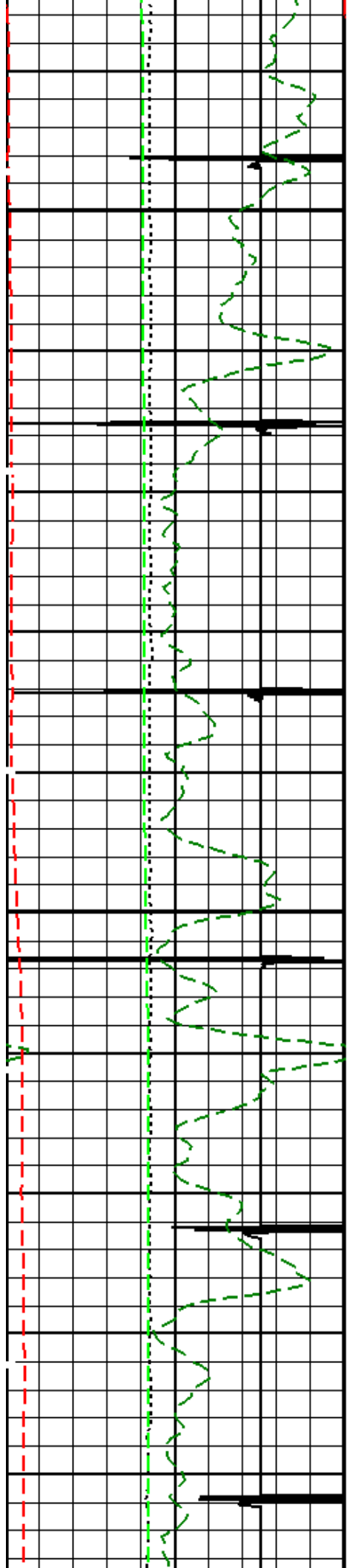




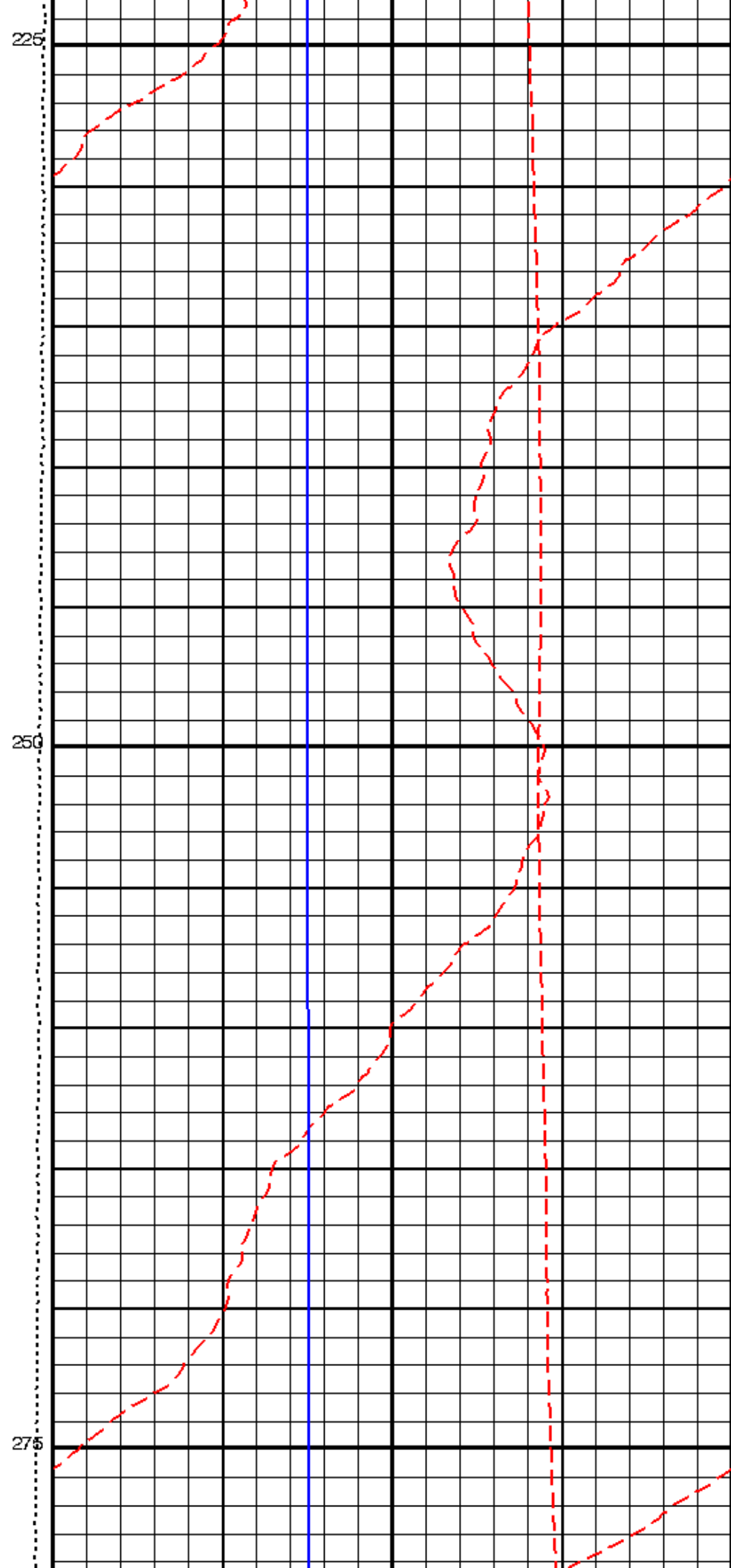
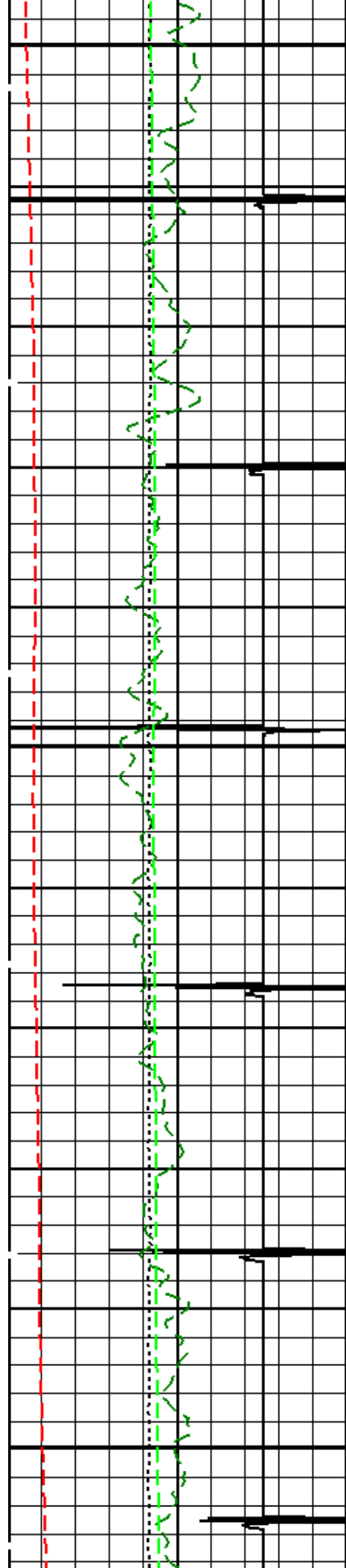
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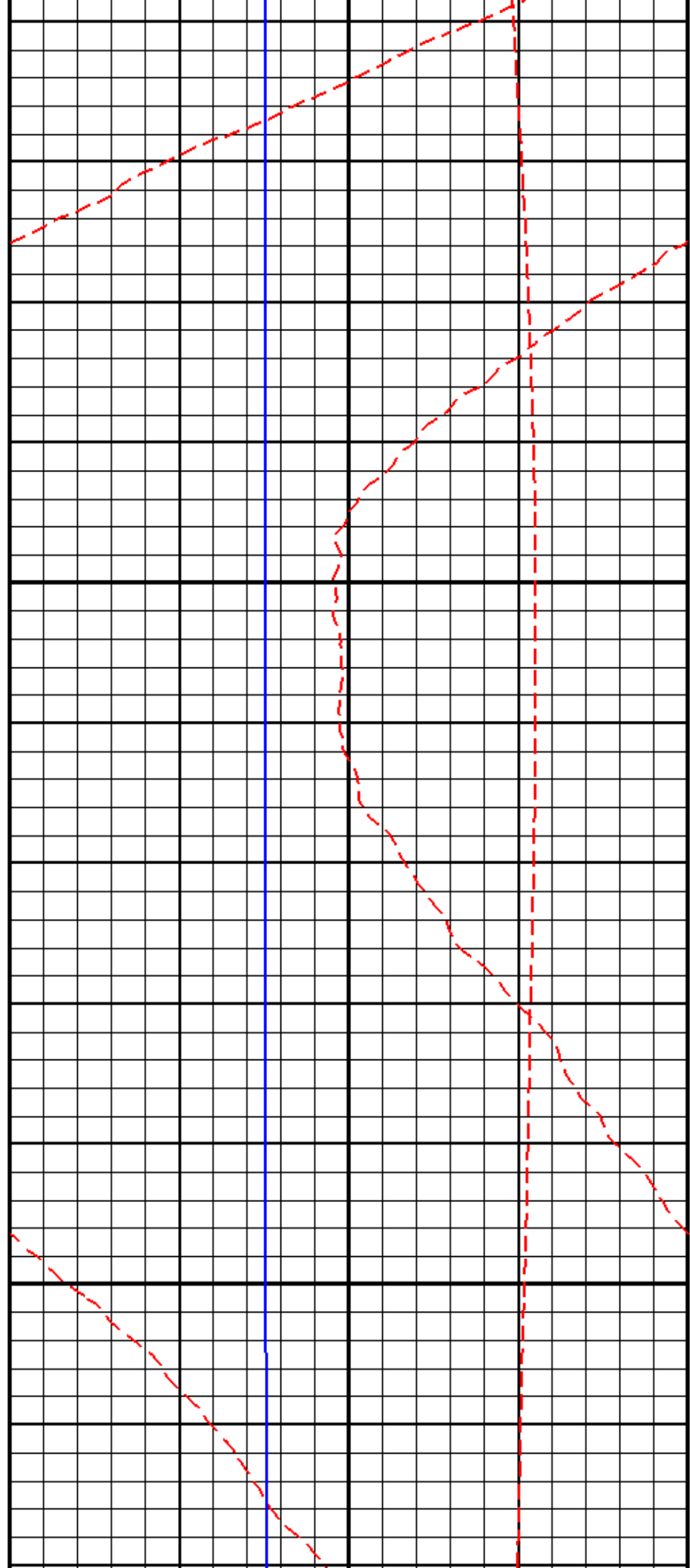
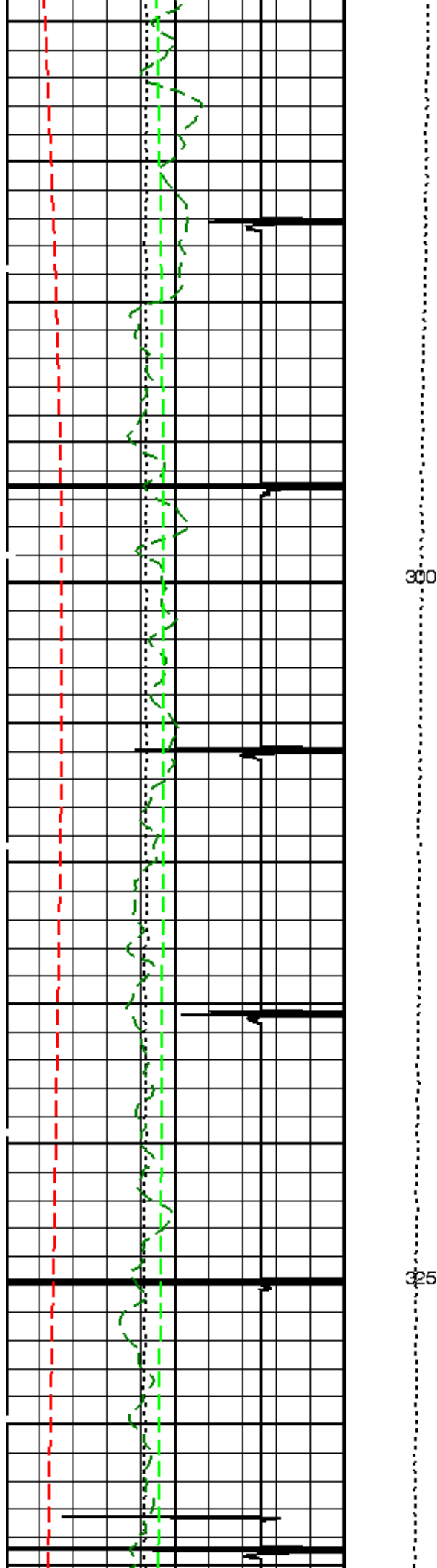
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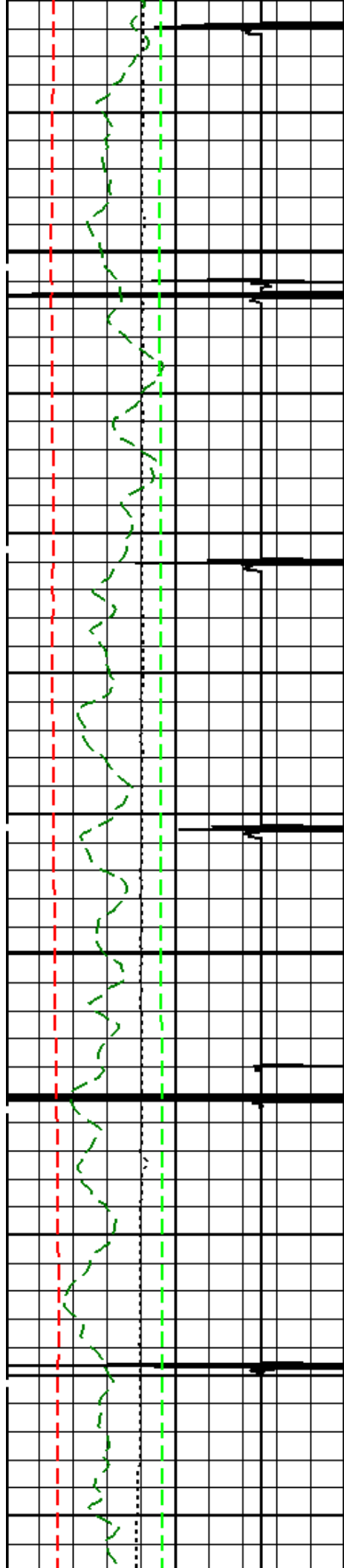






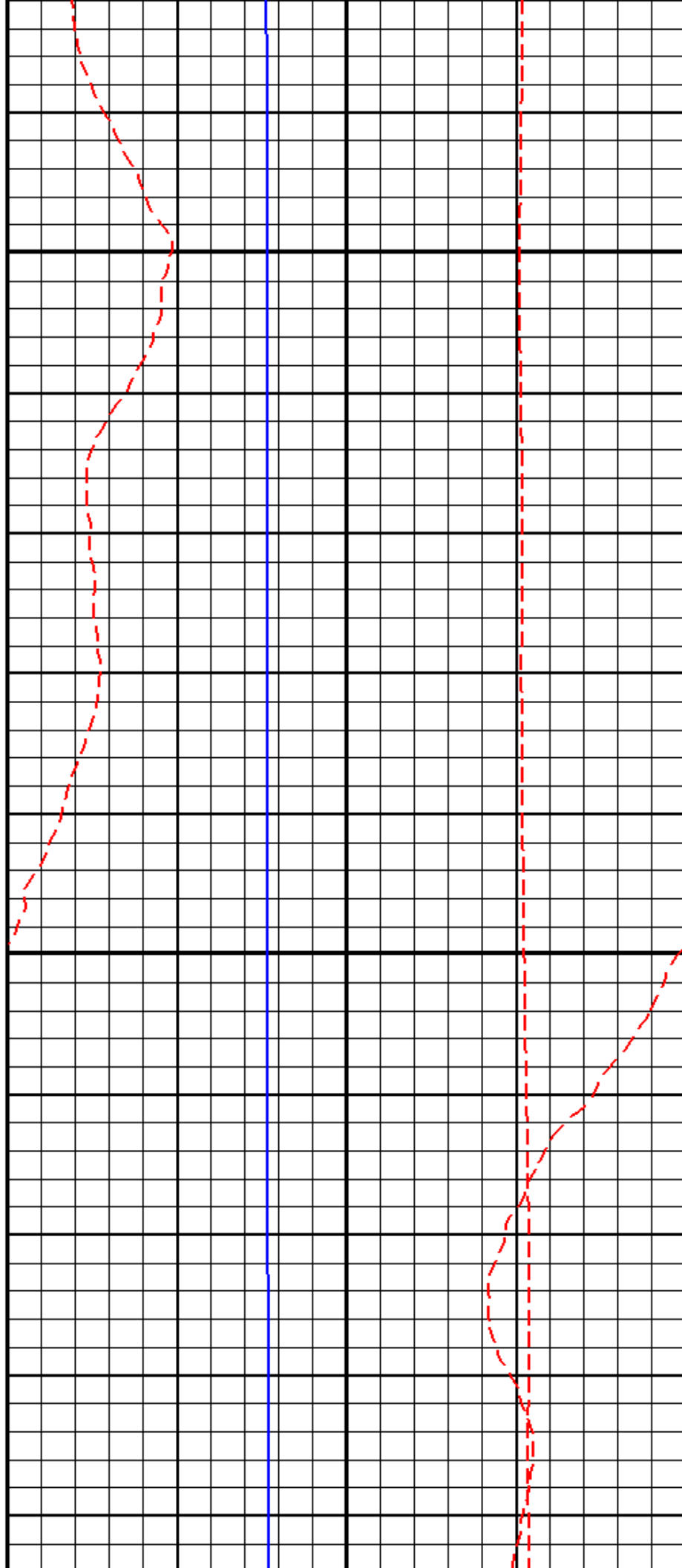


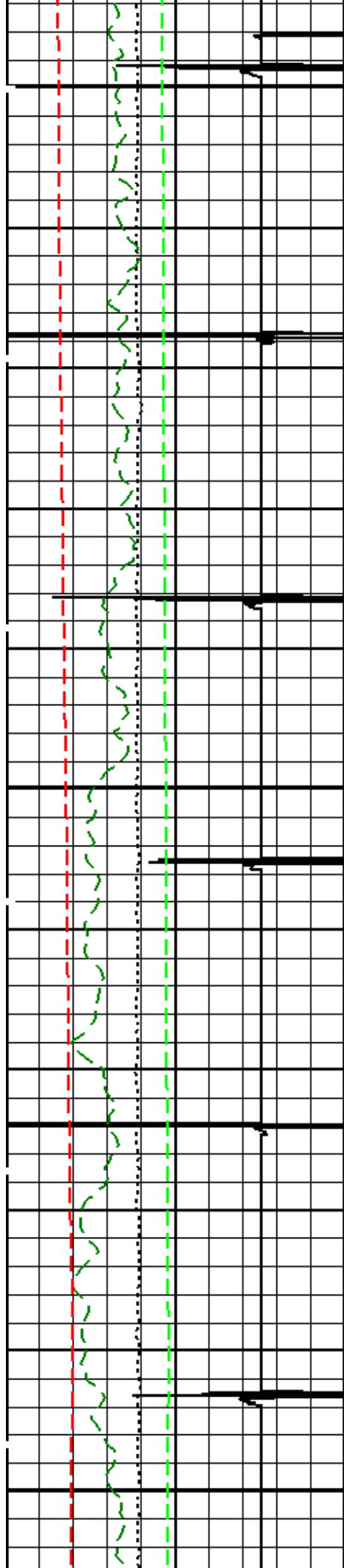




400

425

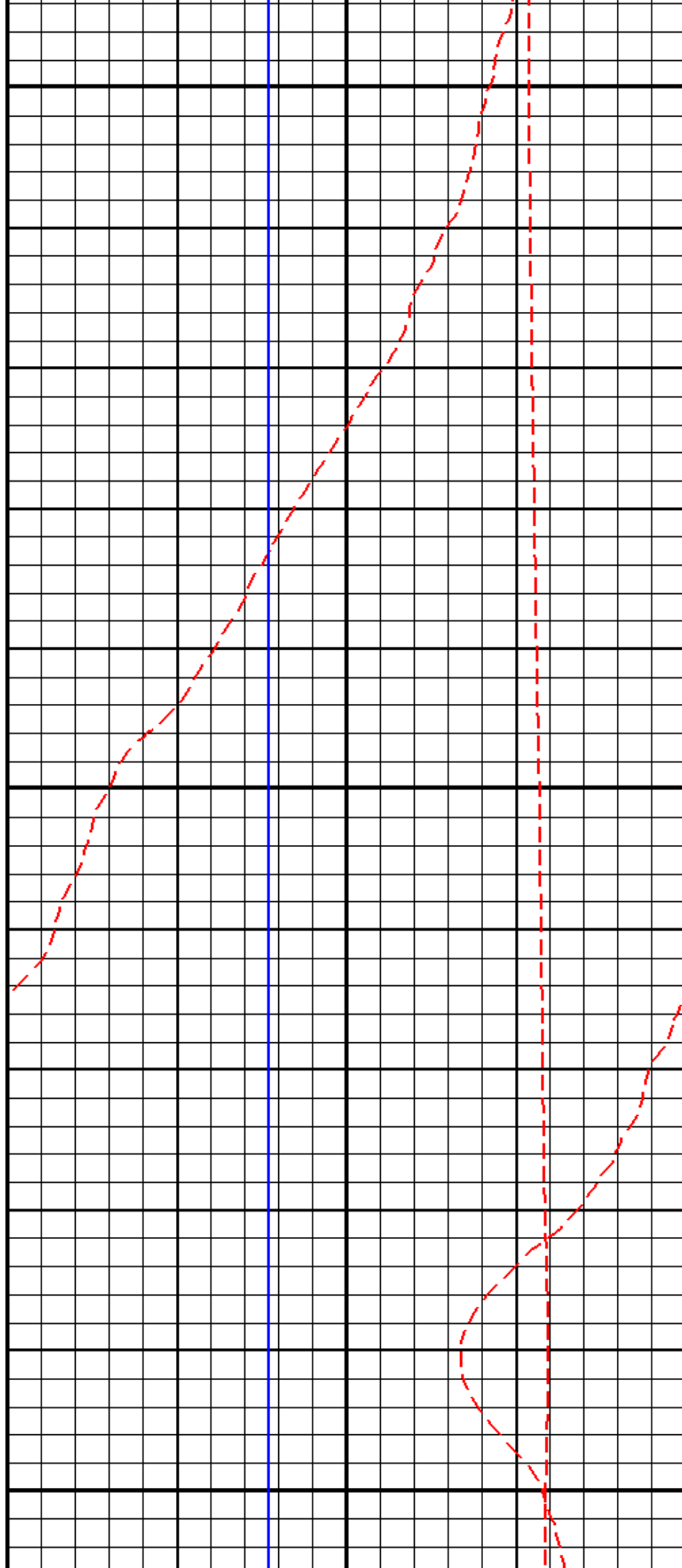


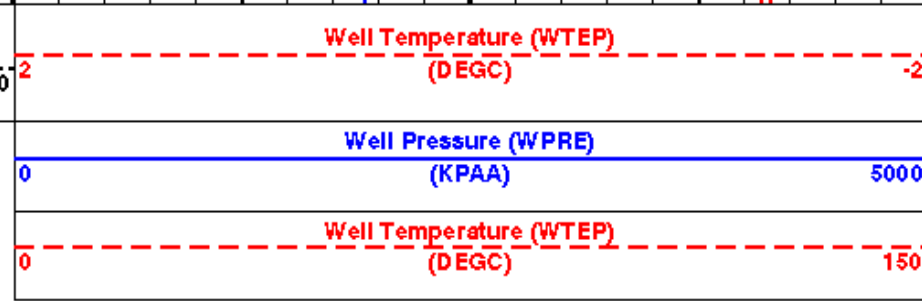
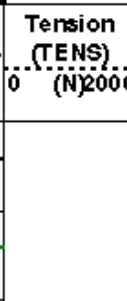
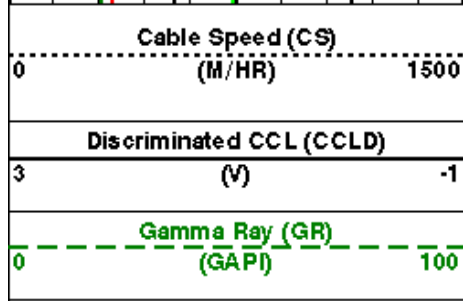
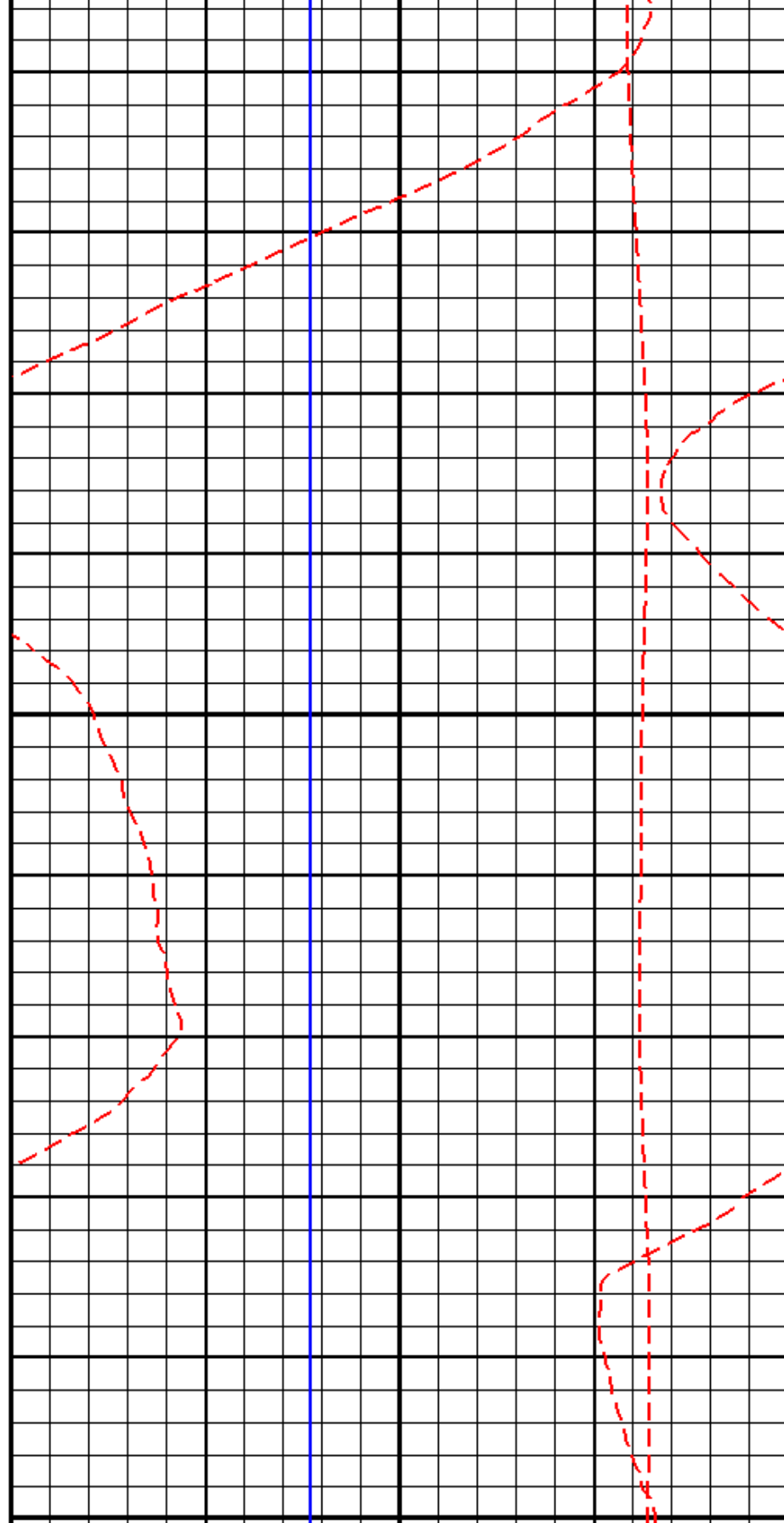
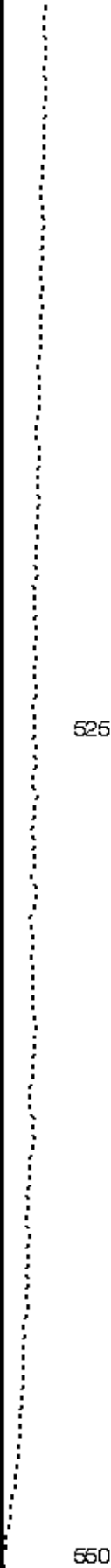
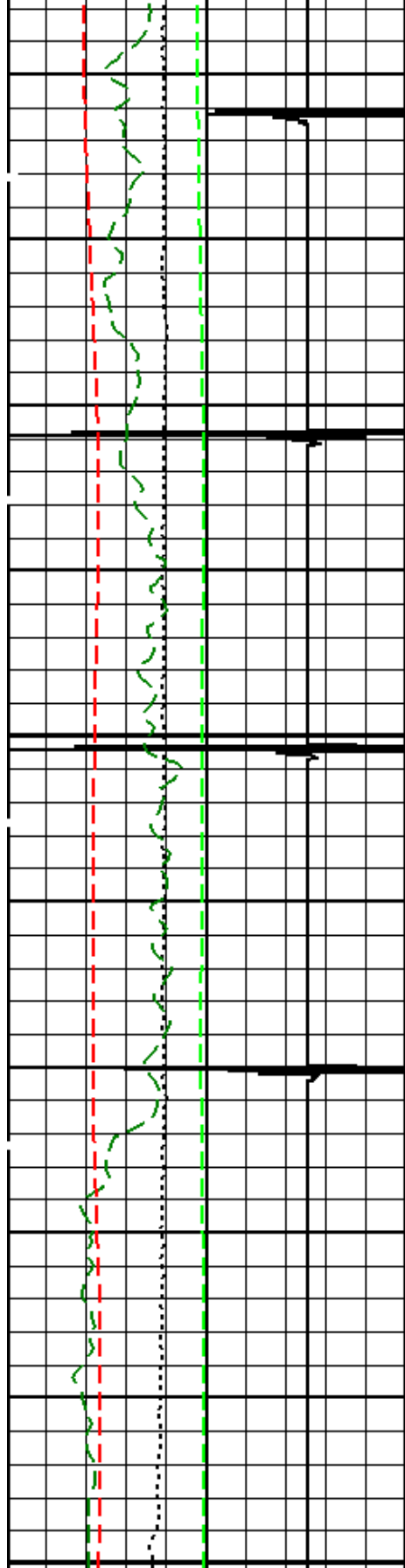


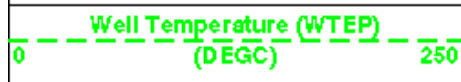
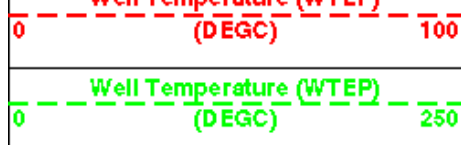
450

475

500







# PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1 Vertical Scale: 1:200

Graphics File Created: 15-Jul-2017 13:30

## OP System Version: 19C2-270

HBMS-B 19C2-270

### Parameters

DLIS Name	Description	Value
DO PP	System and Miscellaneous Depth Offset for Playback Playback Processing	2.0 M NORMAL

### Input DLIS Files

HBMS_003PUP	FN:1	15-Jul-2017 11:22	548.2 M	1.8 M
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### Output DLIS Files

DEFAULT	HBMS_011PUP	FN:9	PRODUCER	15-Jul-2017 13:30
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Schlumberger

UP PASS

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES LIMITED

Well: IMP07 H62-H24 COLD LK 2-20-66-4

### Input DLIS Files

DEFAULT	HBMS_007LUP	FN:5	PRODUCER	15-Jul-2017 11:53	656.4 M	3.2 M
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### Output DLIS Files

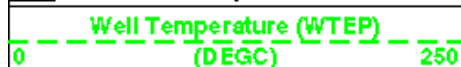
DEFAULT	HBMS_010PUP	FN:8	PRODUCER	15-Jul-2017 13:27	655.2 M	2.0 M
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## OP System Version: 19C2-270

HBMS-B 19C2-270

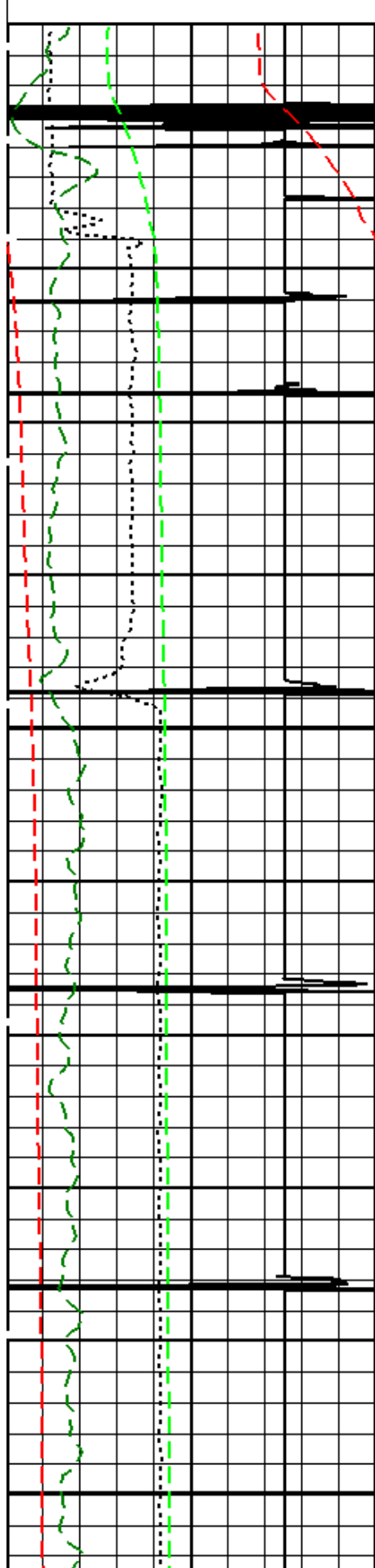
# PIP SUMMARY

Time Mark Every 60 S

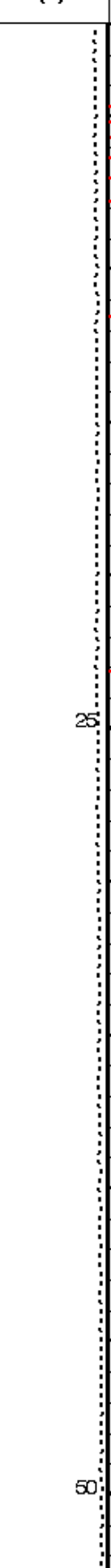


Discriminated CCL (CCLD) (V) -1

Cable Speed (CS) (M/HR) 1500

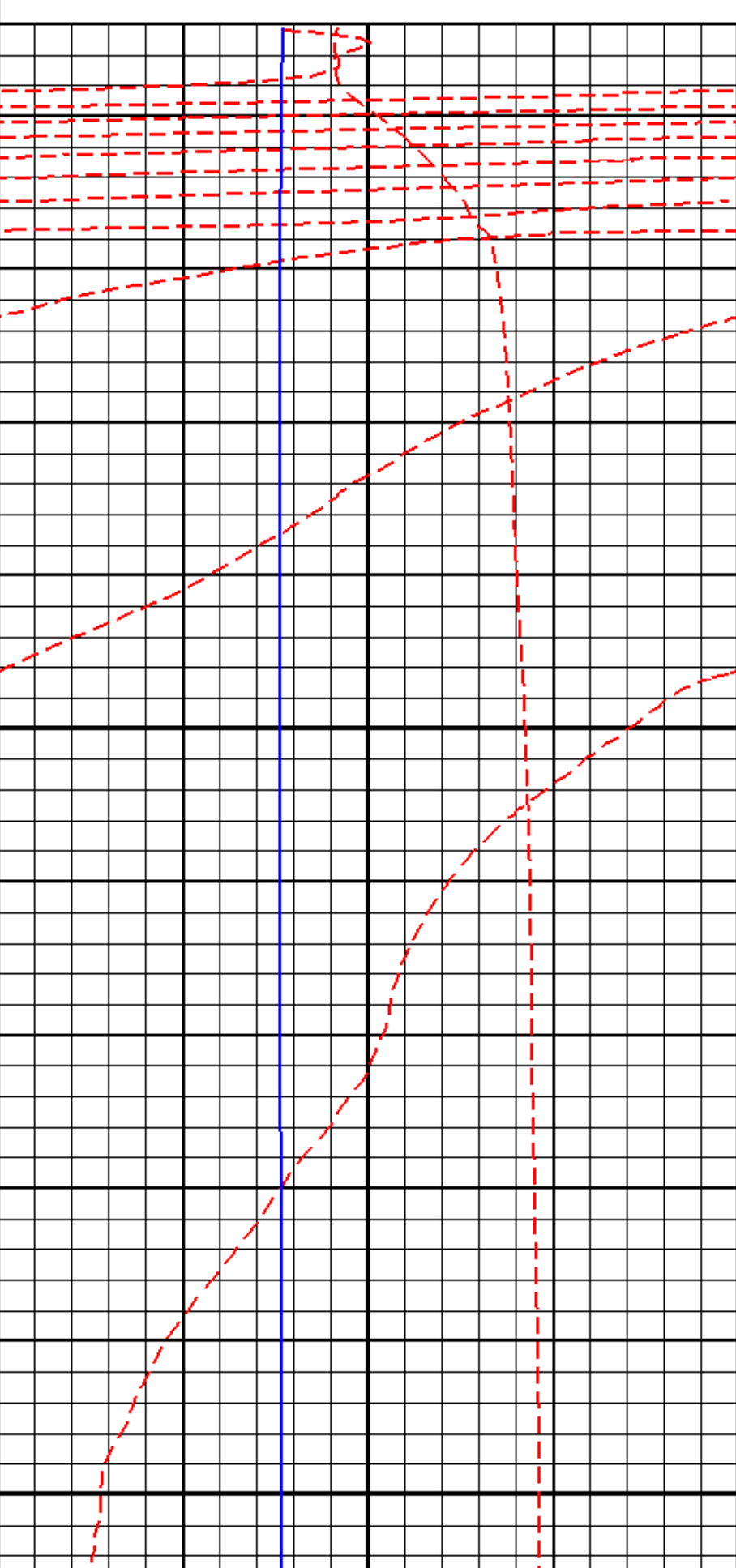


Tension (TENS) (N) 2000

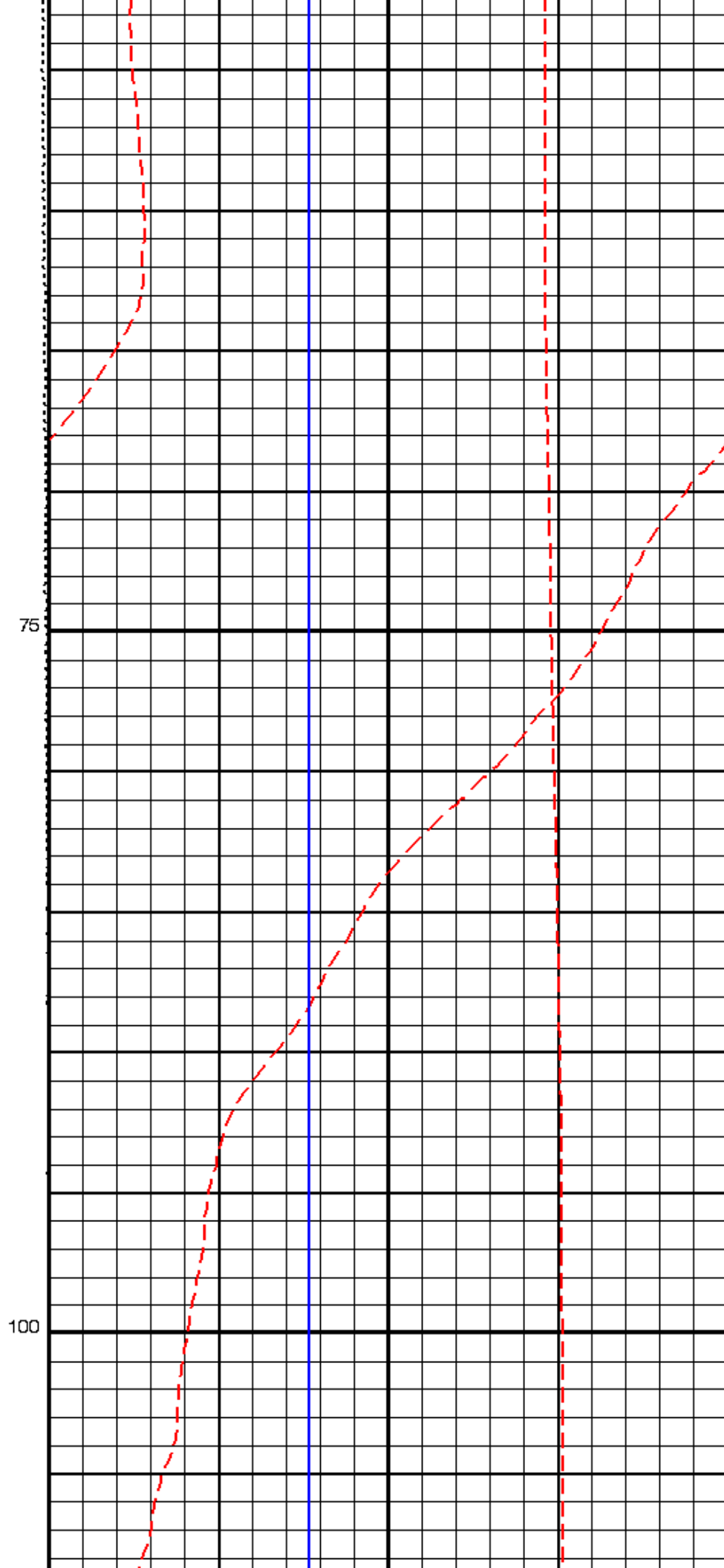
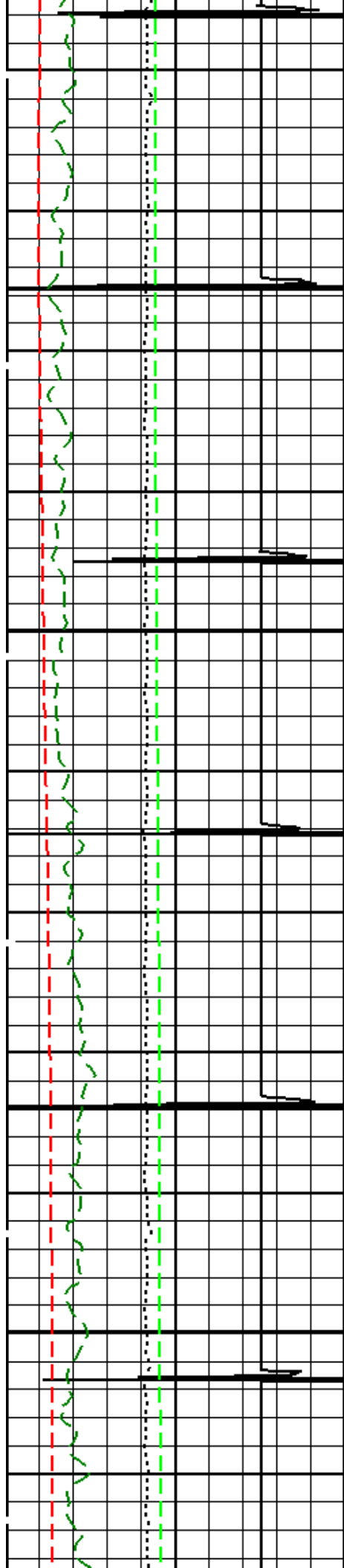


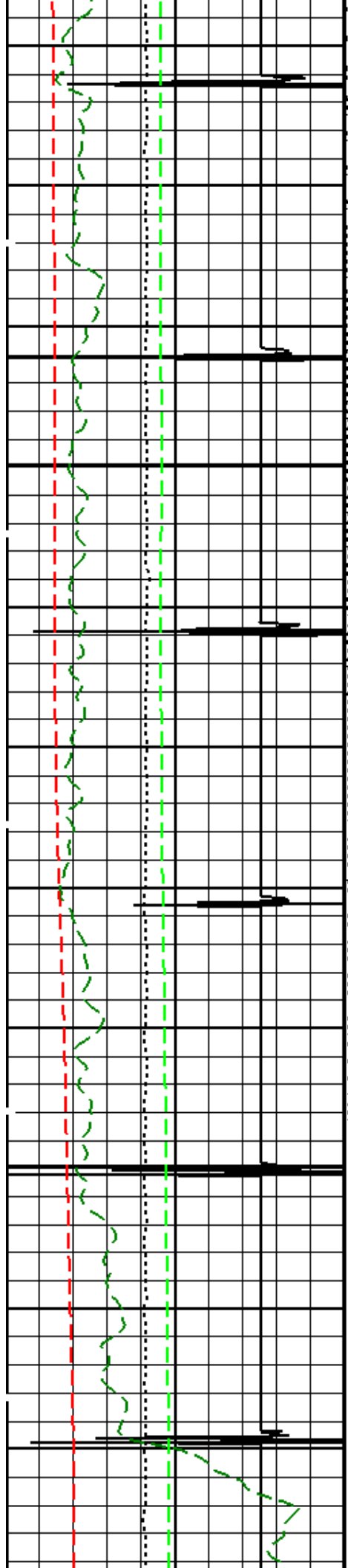
Well Pressure (WPRE) (KPA) 5000

Well Temperature (WTEP) (DEGC) -2



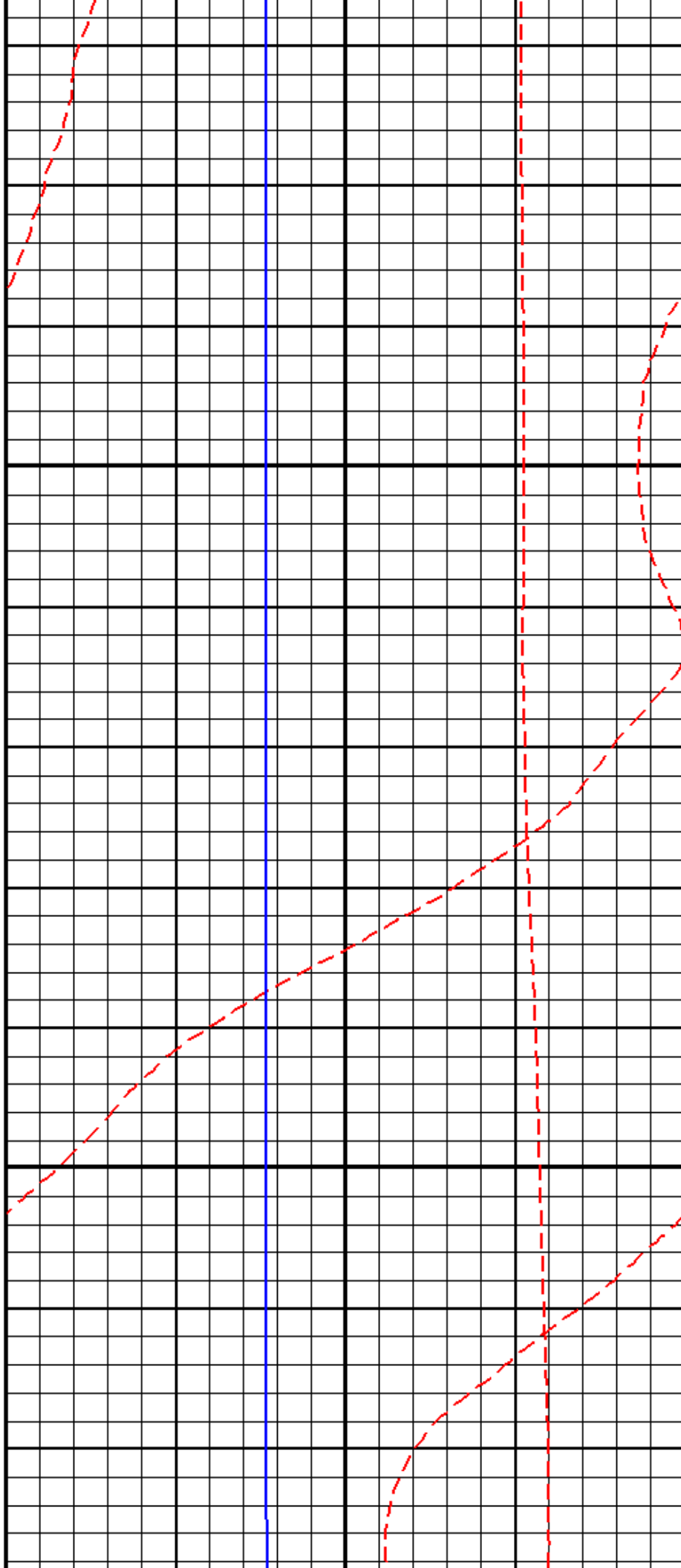


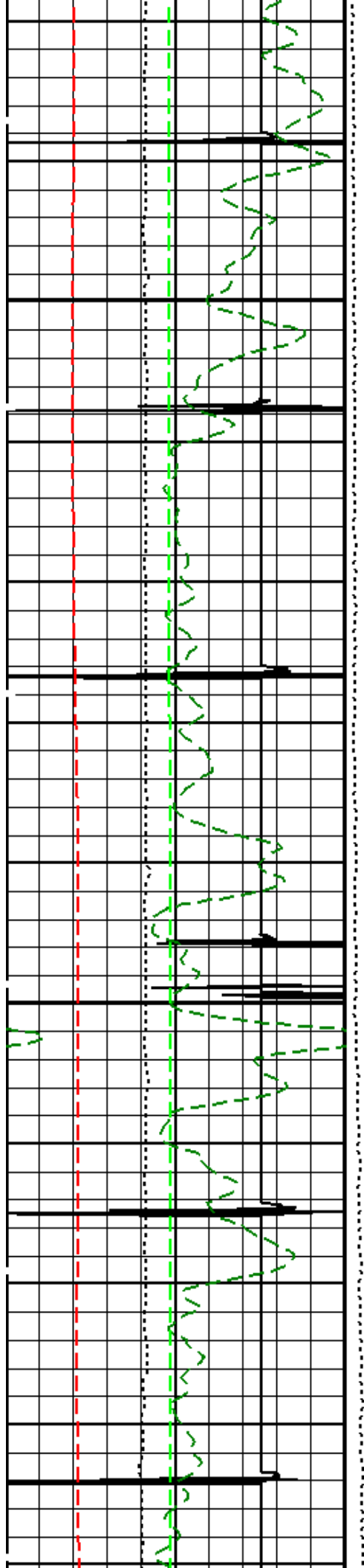




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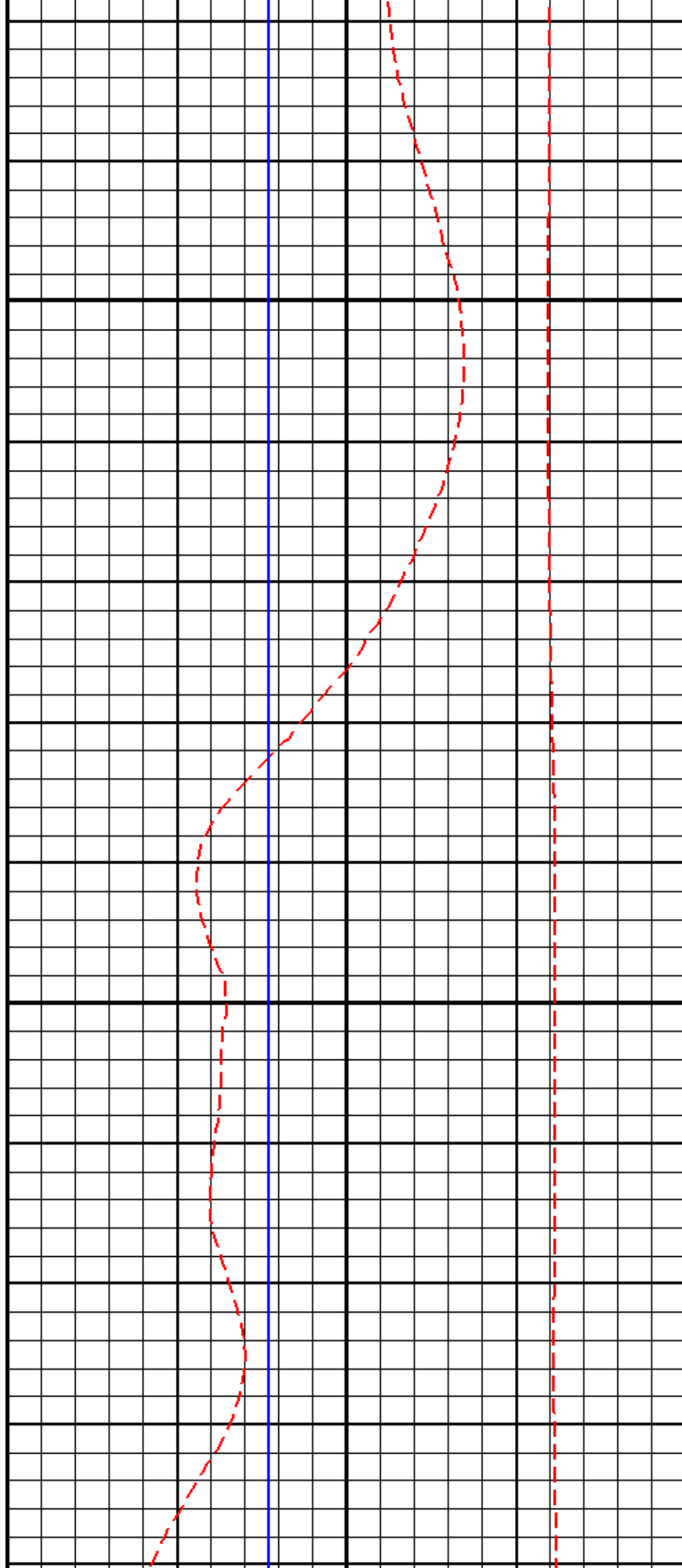
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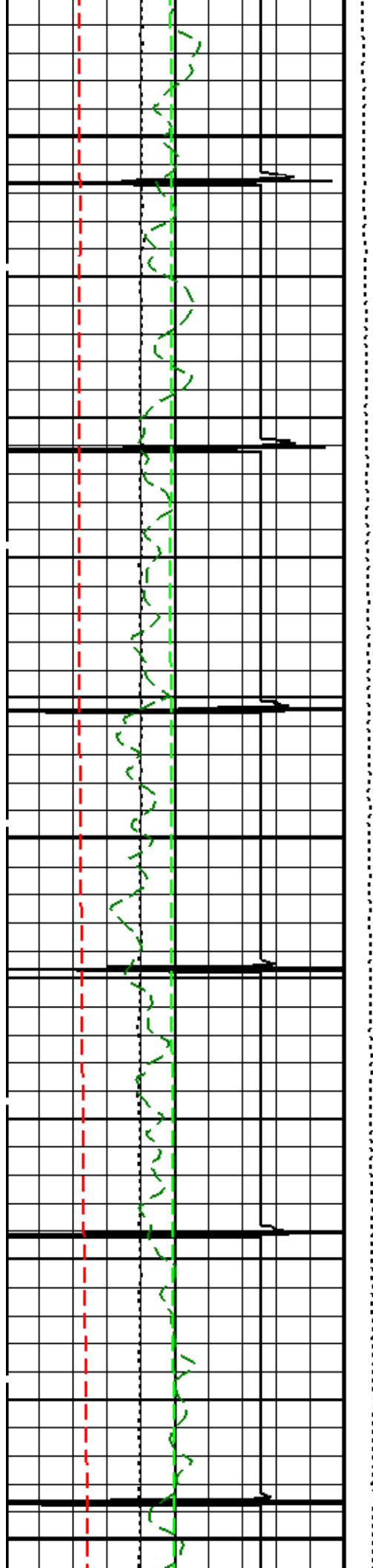




175

200

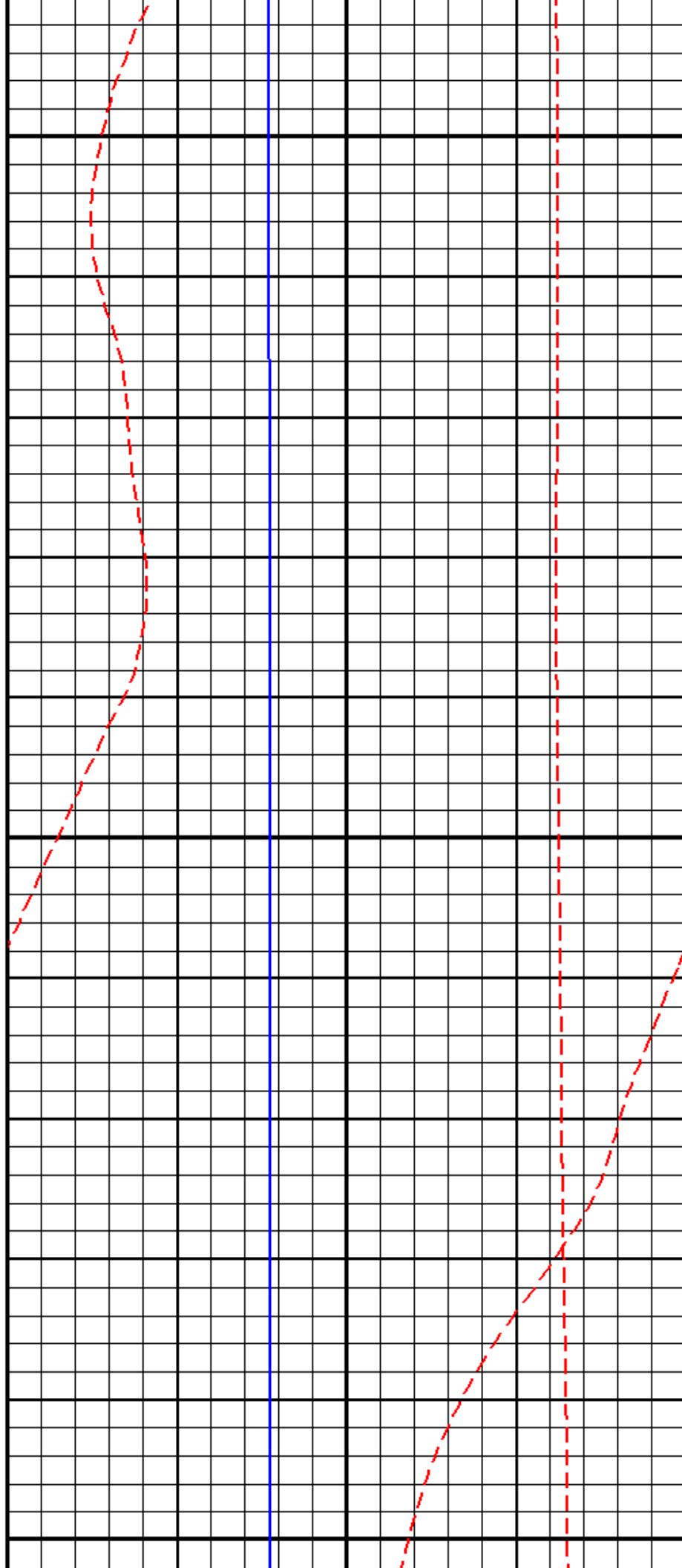


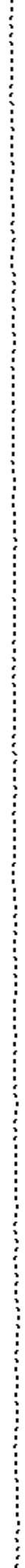
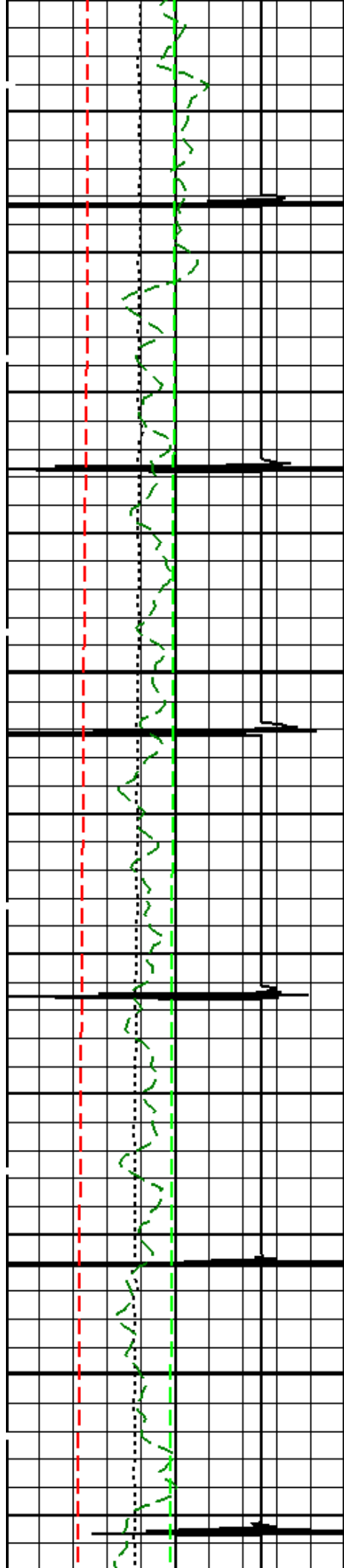


225

250

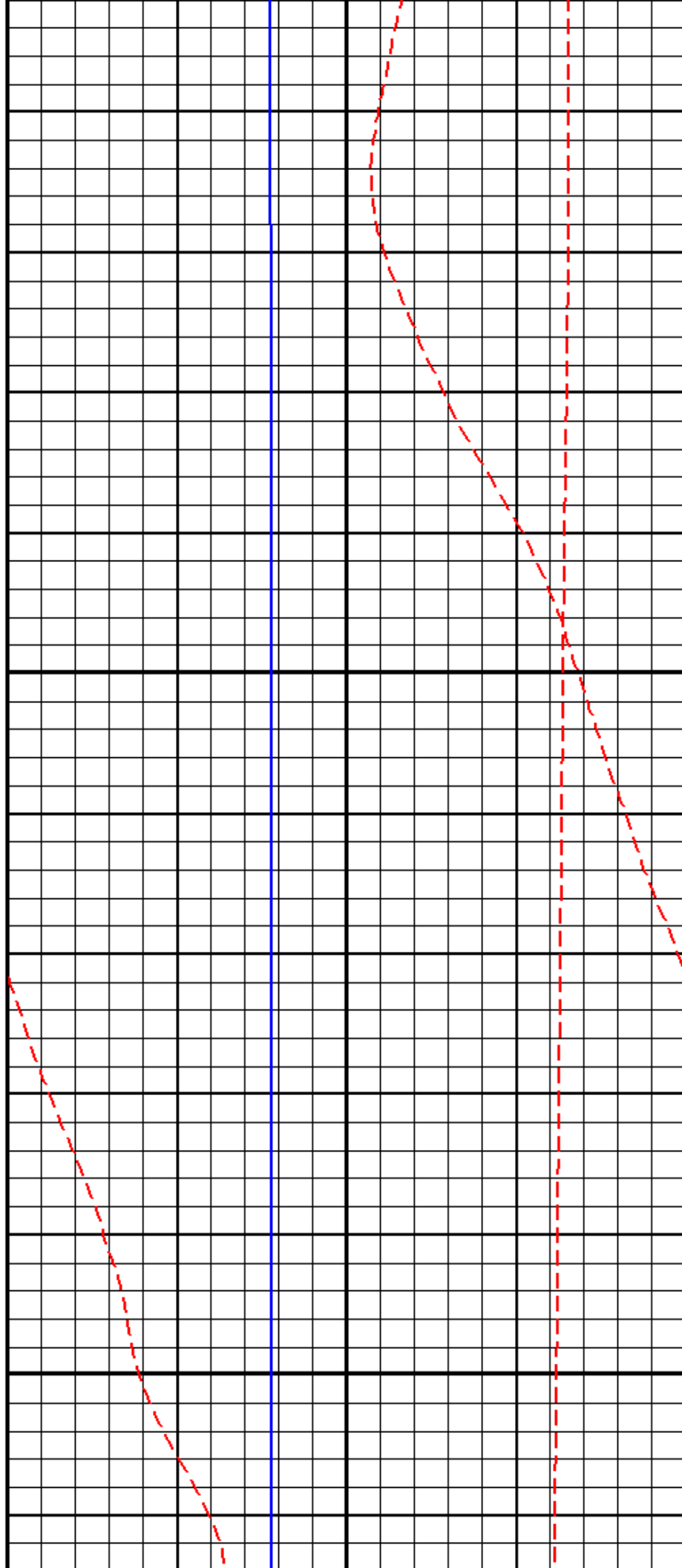
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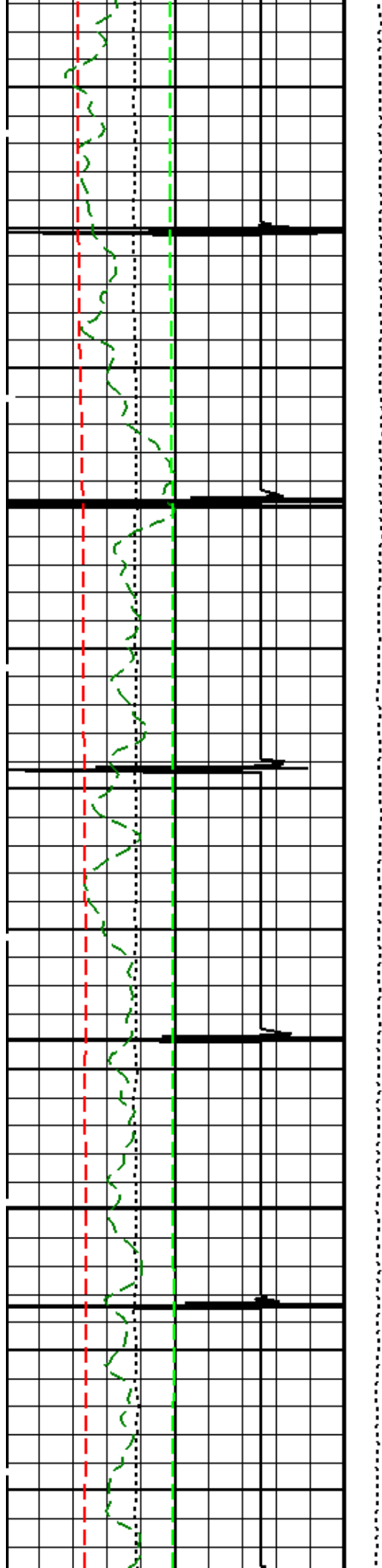




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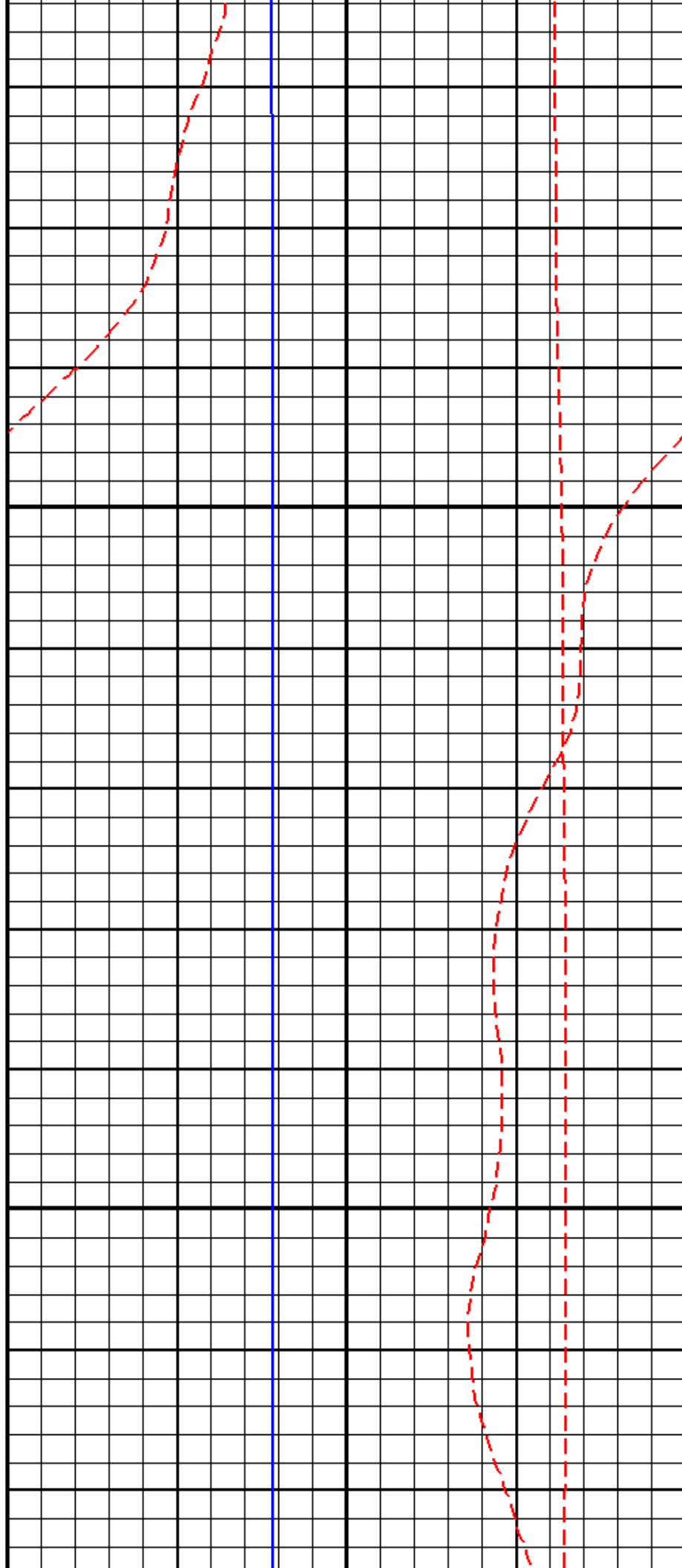
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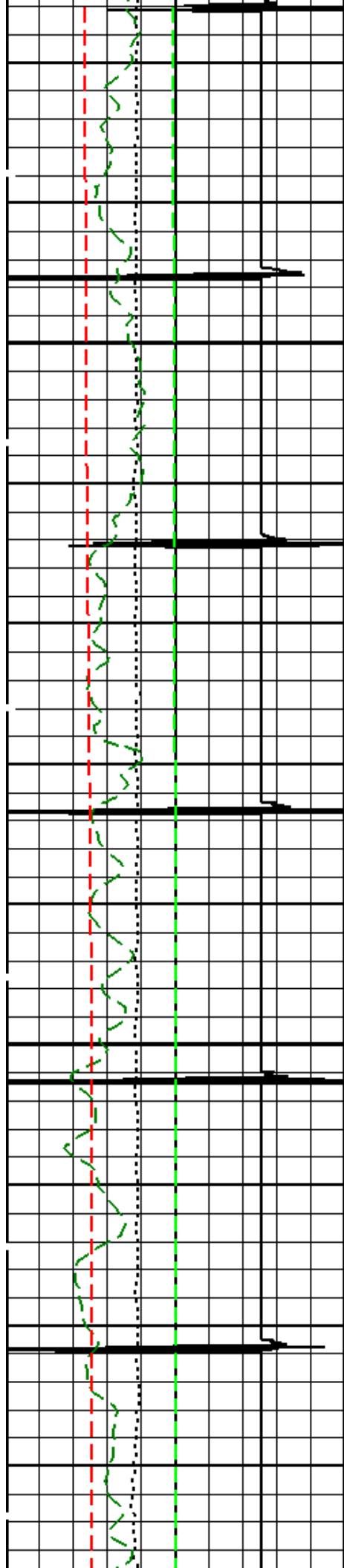




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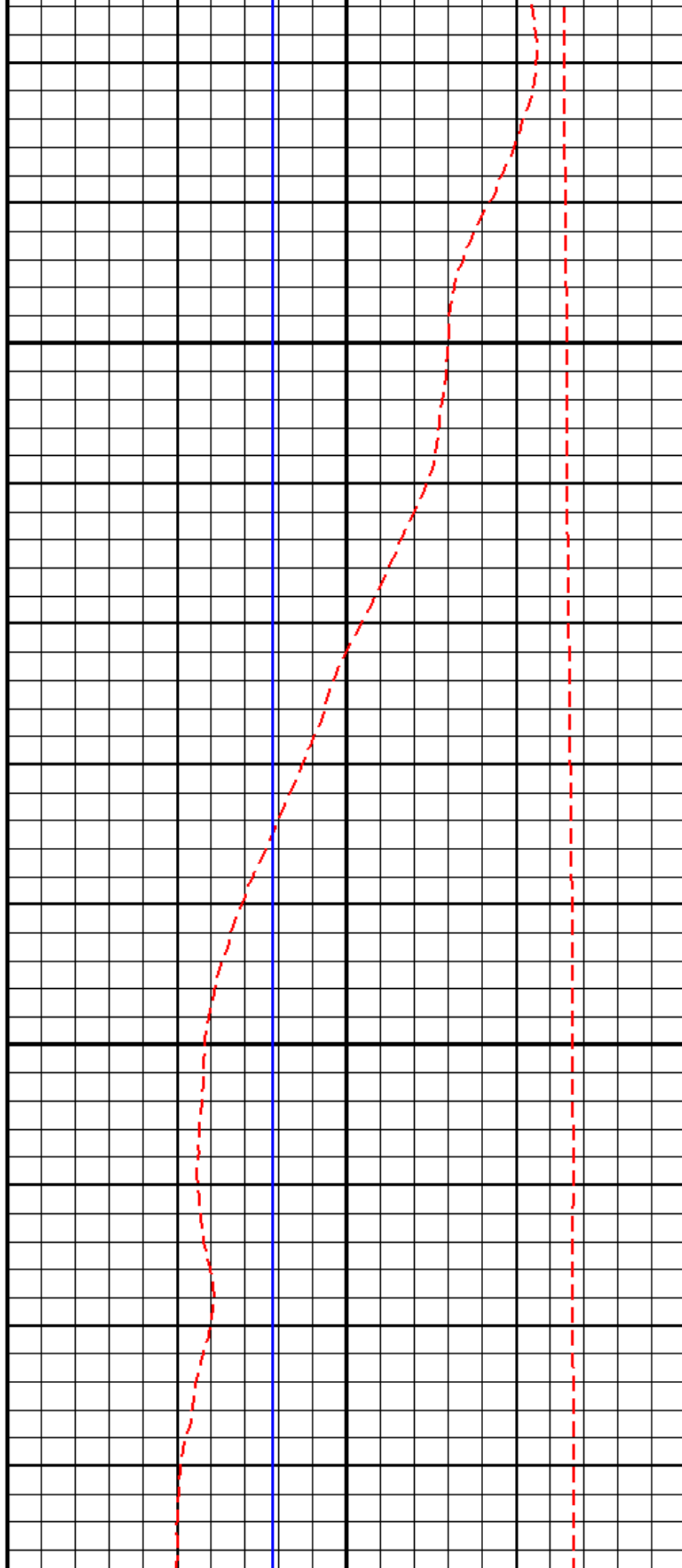
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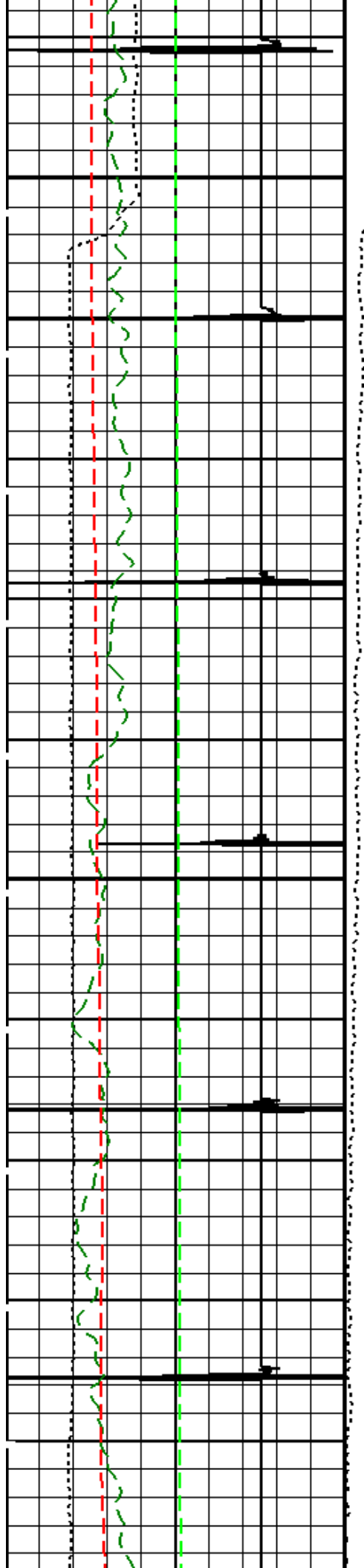




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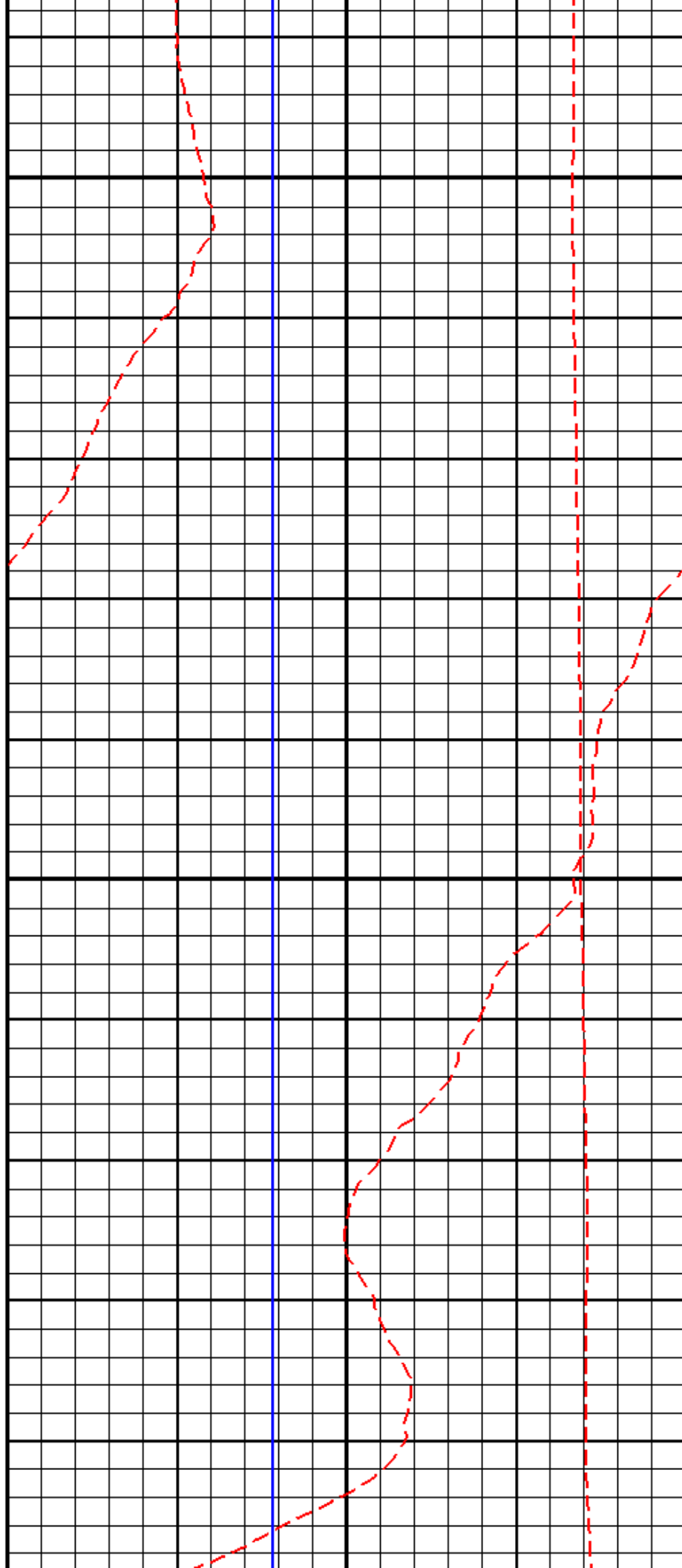
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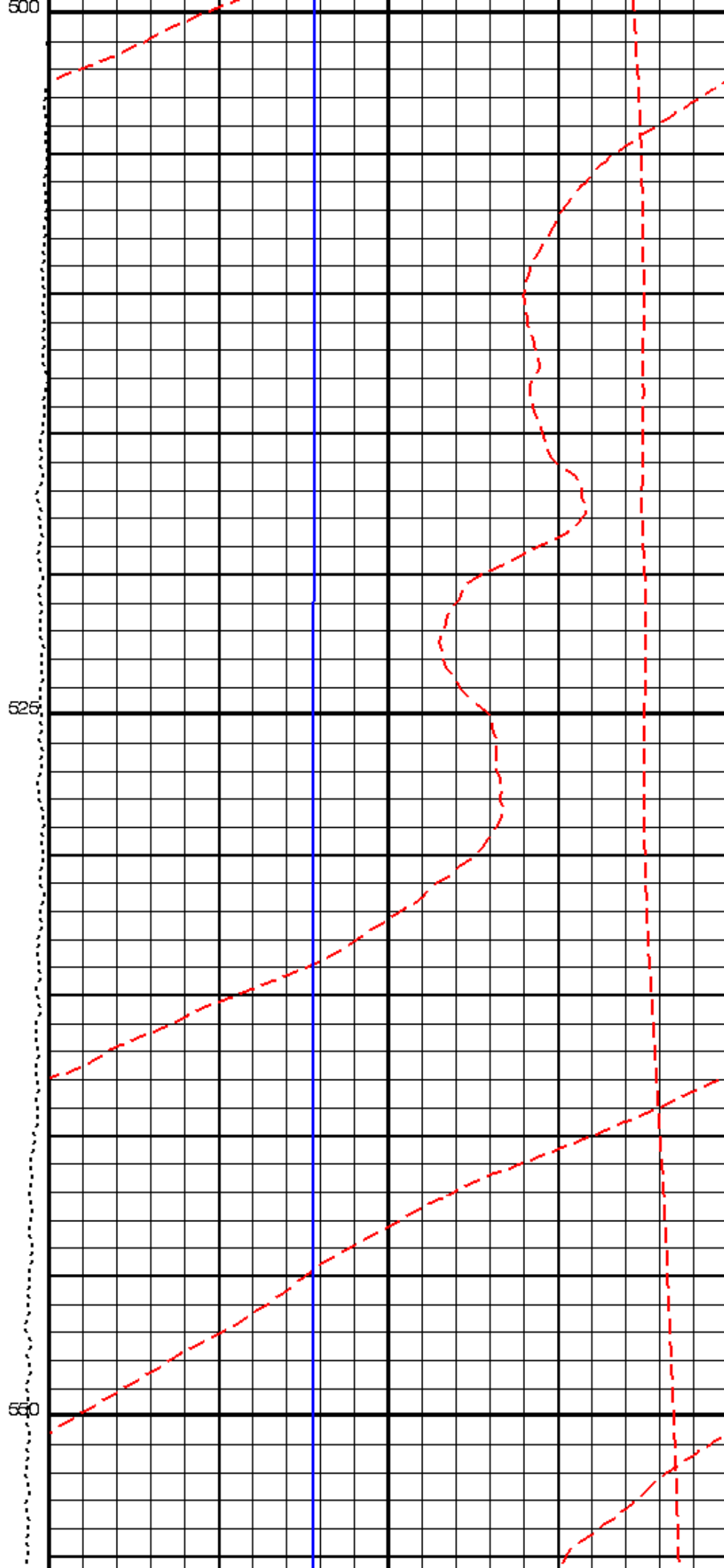
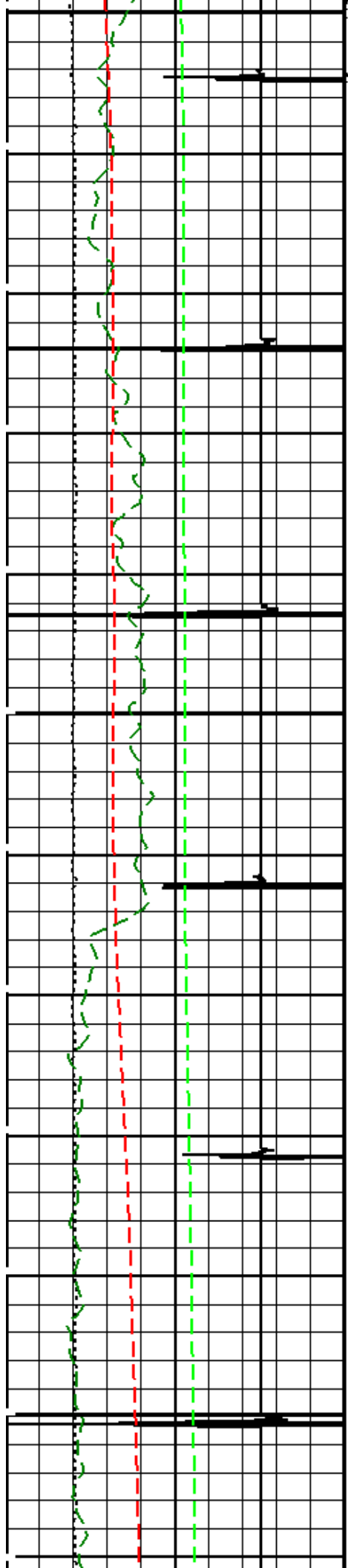


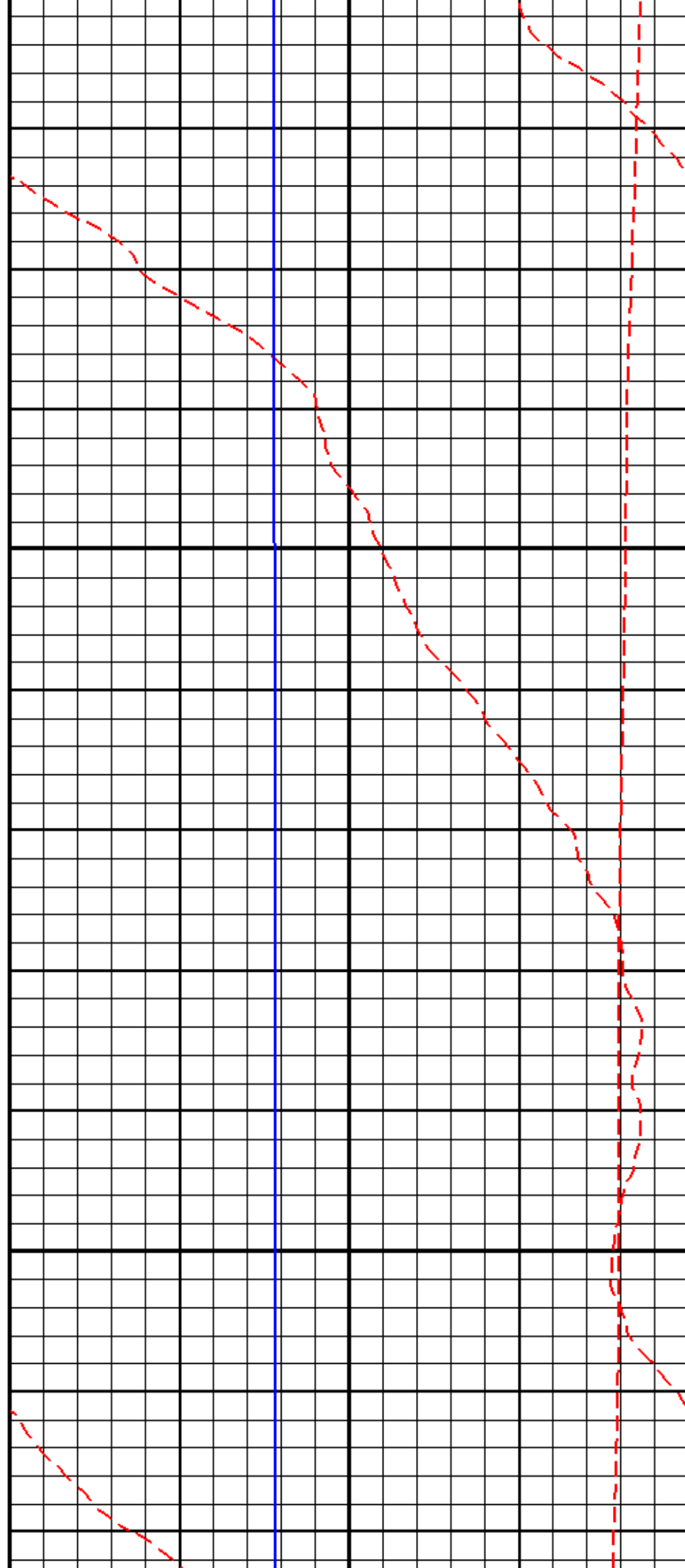
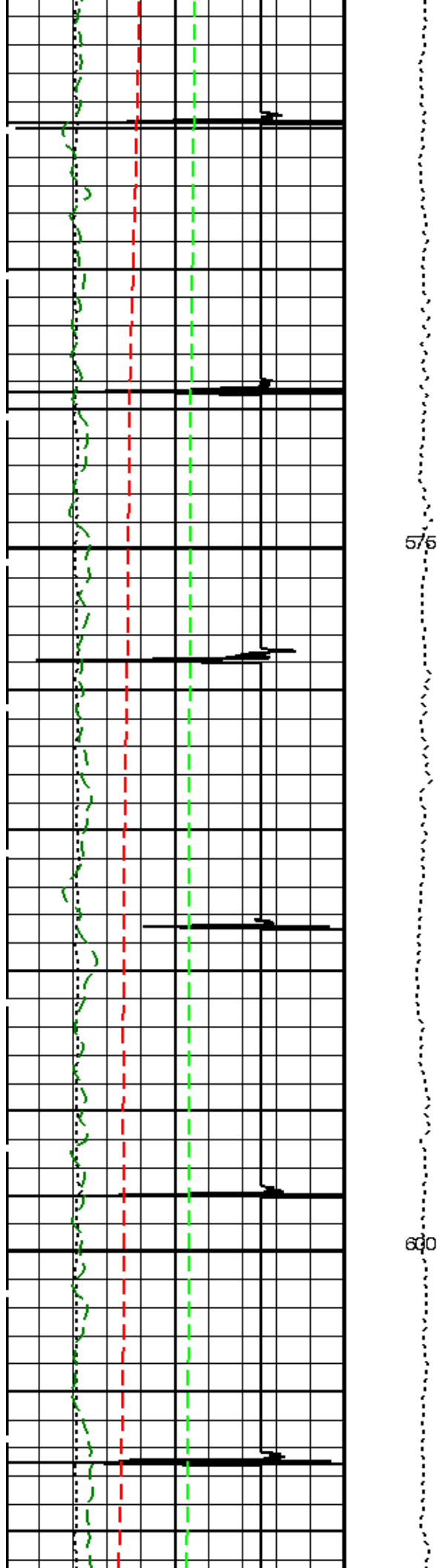
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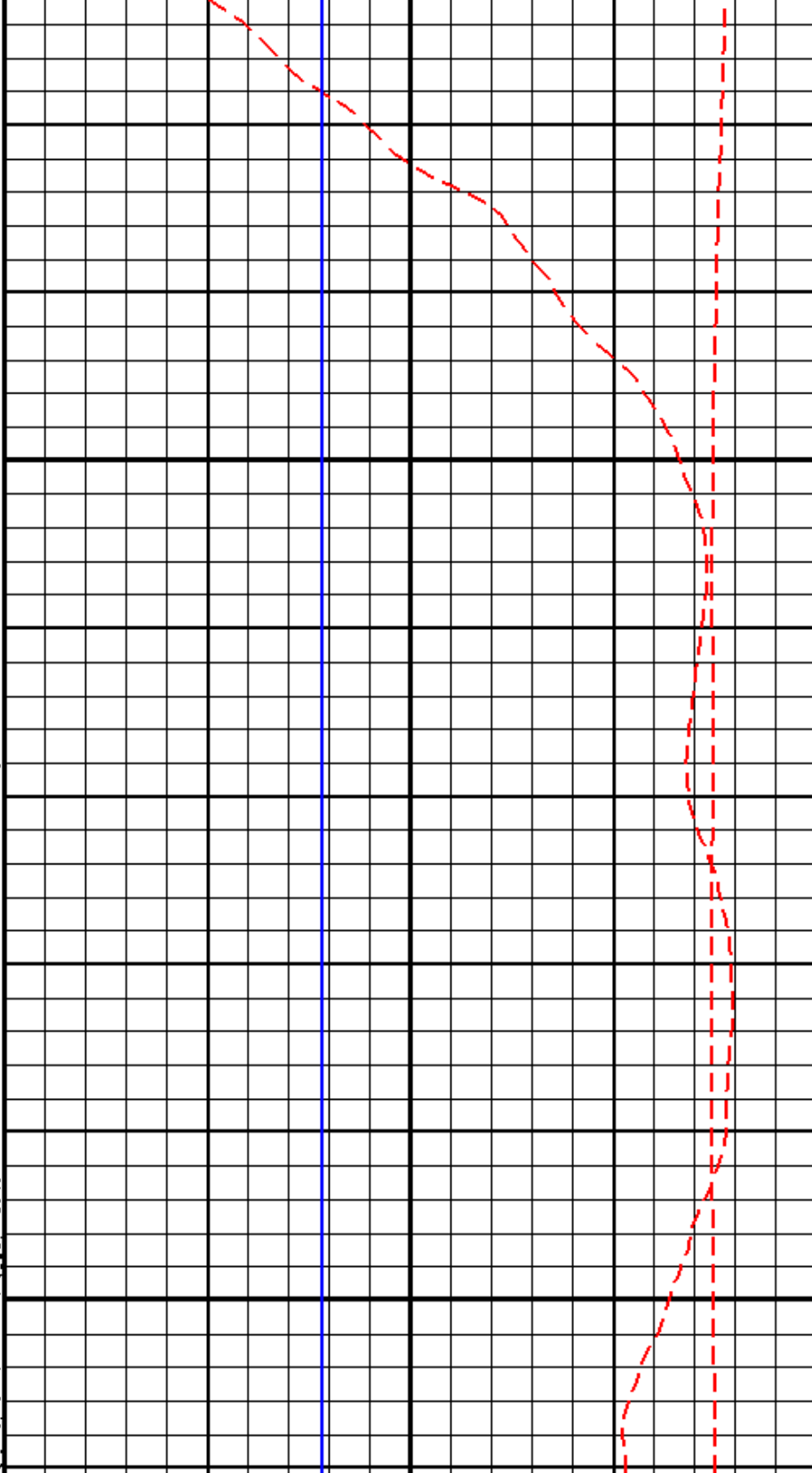
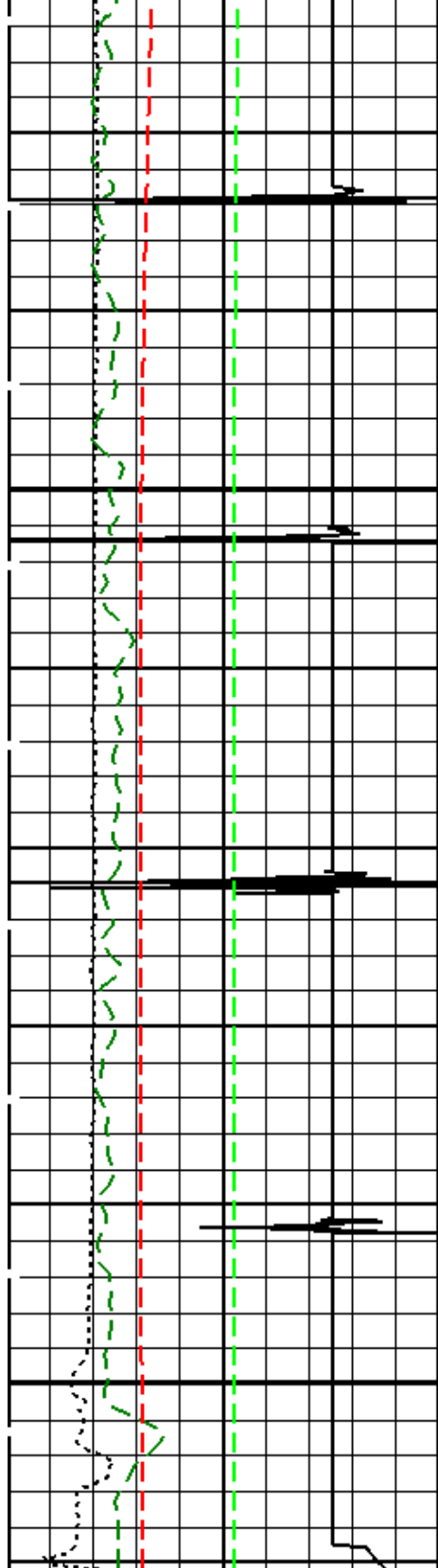
475











Cable Speed (CS)  
(M/HR)

Discriminated CCL (CCLD)  
(V)

Gamma Ray (GR)  
(GAPI)

Well Temperature (WTEP)  
(DEGC)

Well Temperature (WTEP)  
(DEGC)

Tension  
(TENS)  
(N/2000)

Well Temperature (WTEP)  
(DEGC)

Well Pressure (WPRE)  
(KPAA)

Well Temperature (WTEP)  
(DEGC)

# PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1 Vertical Scale: 1:200

Graphics File Created: 15-Jul-2017 13:27

## OP System Version: 19C2-270

HBMS-B 19C2-270

### Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback Playback Processing	-1.2 M NORMAL

### Input DLIS Files

DEFAULT	HBMS_007LUP	FN:5	PRODUCER	15-Jul-2017 11:53	656.4 M	3.2 M
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### Output DLIS Files

DEFAULT	HBMS_010PUP	FN:8	PRODUCER	15-Jul-2017 13:27
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Company: **IMPERIAL OIL RESOURCES LIMITED**

**Schlumberger**

Well: **IMP 07 H62-H24 COLD LK 15-15-66-4**

Field: **LEMING**

County: **ALBERTA**

State: **\*\*MD\*\***

TEMPERATURE LOG