

Schlumberger

Company: IMPERIAL OIL RESOURCES LIMITED

Well: IMP07 H62-H01 COLD LK 2-20-66-4

Field: LEMING

County: ALBERTA

State: \*\*MD\*\*

TEMPERATURE LOG

County: ALBERTA  
Field: LEMING  
Location: 2-21-66-4W4  
Well: IMP07 H62-H01 COLD LK 2-20-66-4  
Company: IMPERIAL OIL RESOURCES LIMITED

LOCATION

2-21-66-4W4  
100022006604W400

Elev.: K.B. 633.90 m  
G.L. 625.90 m  
D.F.

Permanent Datum: \_\_\_\_\_  
Log Measured From: \_\_\_\_\_  
Drilling Measured From: \_\_\_\_\_

GROUND LEVEL  
KELLY BUSHING  
KELLY BUSHING

Elev.: 625.90 m  
8.00 m above Perm. Datum

API Serial No. 0378141  
Section 02-21  
Township 086  
Range 04W4

Logging Date	14-Jul-2017			
Run Number	1			
Depth Driller	1891 m			
Schlumberger Depth	61.6 m			
Bottom Log Interval	61.6 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	1891 m			
Casing/Tubing Size	139.700 mm			
Weight	25.3 kg/m			
Grade	J55			
From	6.33 m			
To	623 m			
Maximum Recorded Temperatures	124 degC			
Logger On Bottom	14-Jul-2017			
Unit Number	3010	NISKU PS		
Recorded By	JONATHAN ATTIG			
Witnessed By	DENNIS 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							
Unit Number							
Recorded By							
Witnessed By							

**DEPTH SUMMARY LISTING**

Date Created: 14-JUL-2017 16:30:53

**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: 10-JUL-2017

MAX TEMP 124 DEGC @ 512 MKB

CLEARWATER TOP @ 598.8 MKB

BURST NIPPLE TOP @ 593.42

PSN TOP @ 613.93

REMARKS: RUN NUMBER 2

YOUR CREW TODAY: J.ATTIG, C.DYCK

DKRF-00073  
19C2-270

SERVICE ORDER #:  
PROGRAM VERSION:  
FLUID LEVEL:

STOP

EQUIPMENT	DESCRIPTION
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RUN 2

## SURFACE EQUIPMENT

WITM-A  
PSC\_16MHZ

DOWNHOLE EQUIPMENT

MH-22  
MH-22

10.06

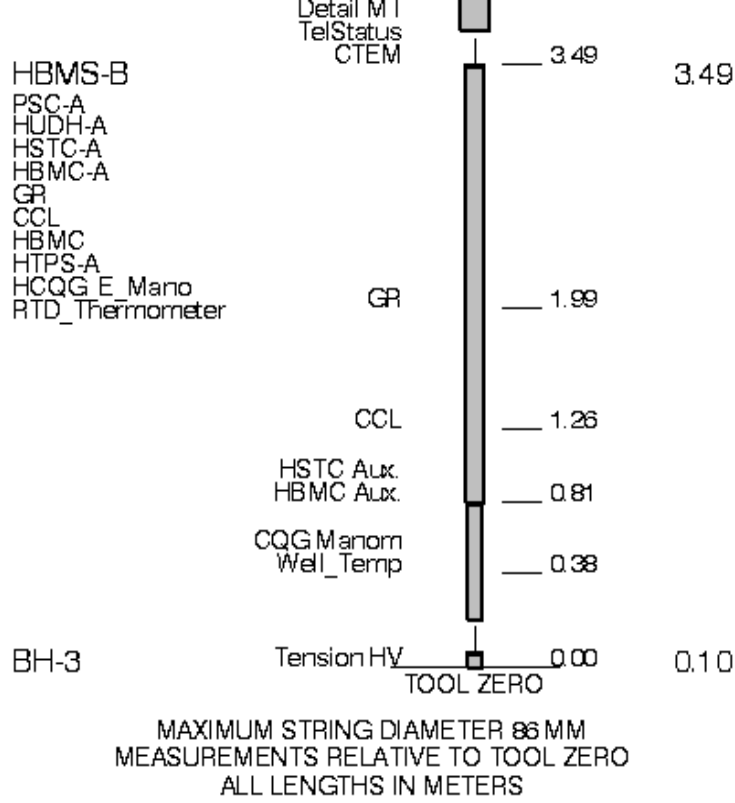
AH-38



9.58

AH-TRACTOR  
AH-TRACTOR

9.49



Schlumberger

DOWN PASS

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES LIMITED

Well: IMP07 H62-H01 COLD LK 2-20-66-4

### Input DLIS Files

HBMS\_003PUP

FN:1

14-Jul-2017 13:18

430.5 M

2.9 M

### Output DLIS Files

DEFAULT

HBMS\_016PUP

FN:12

PRODUCER

14-Jul-2017 16:53

428.5 M

0.9 M

### OP System Version: 19C2-270

HBMS-B

19C2-270

### PIP SUMMARY

☒ Time Mark Every 60 S

Well Temperature (WTEP)  
(DEGC) 0 250

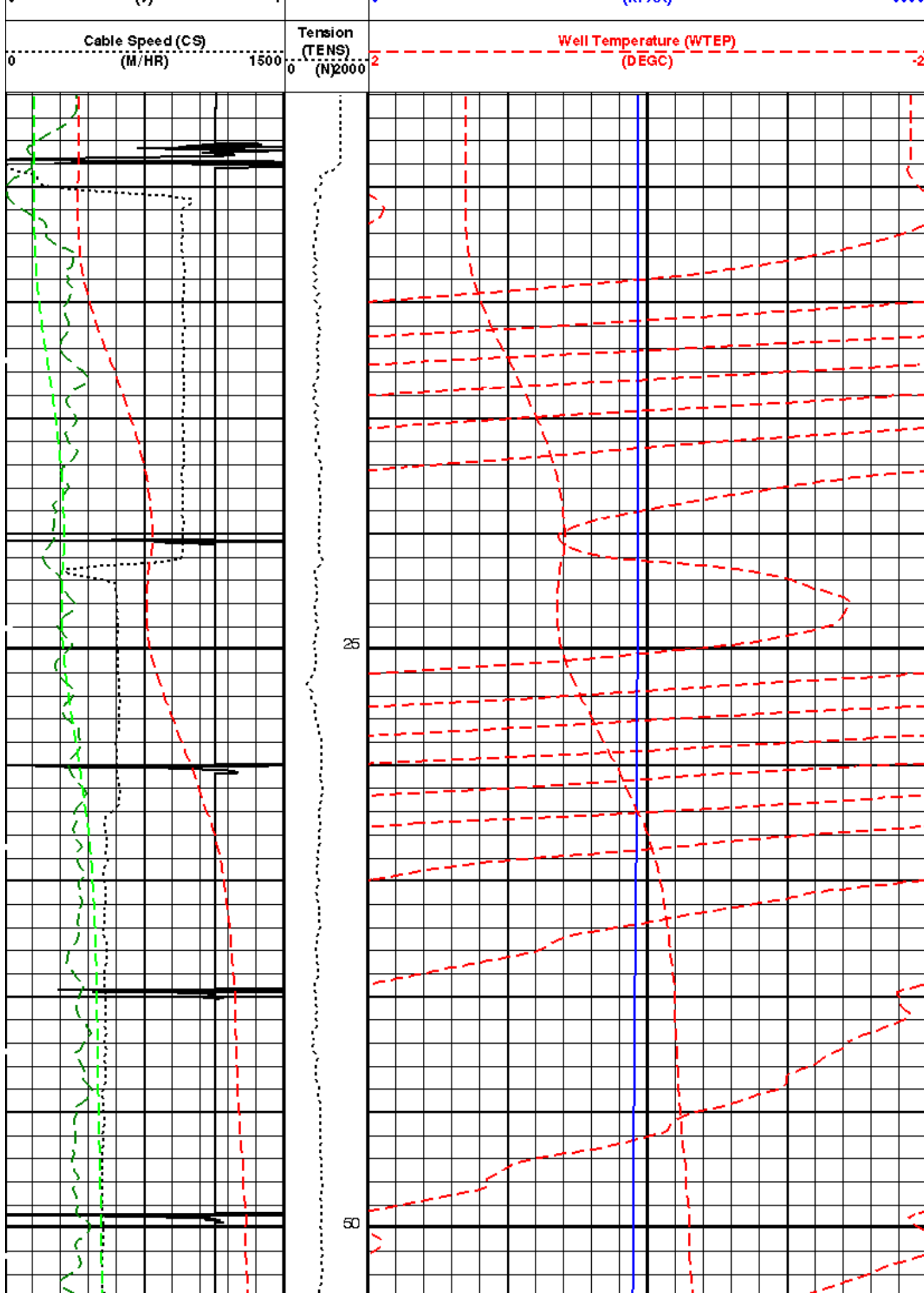
Well Temperature (WTEP)  
(DEGC) 0 100

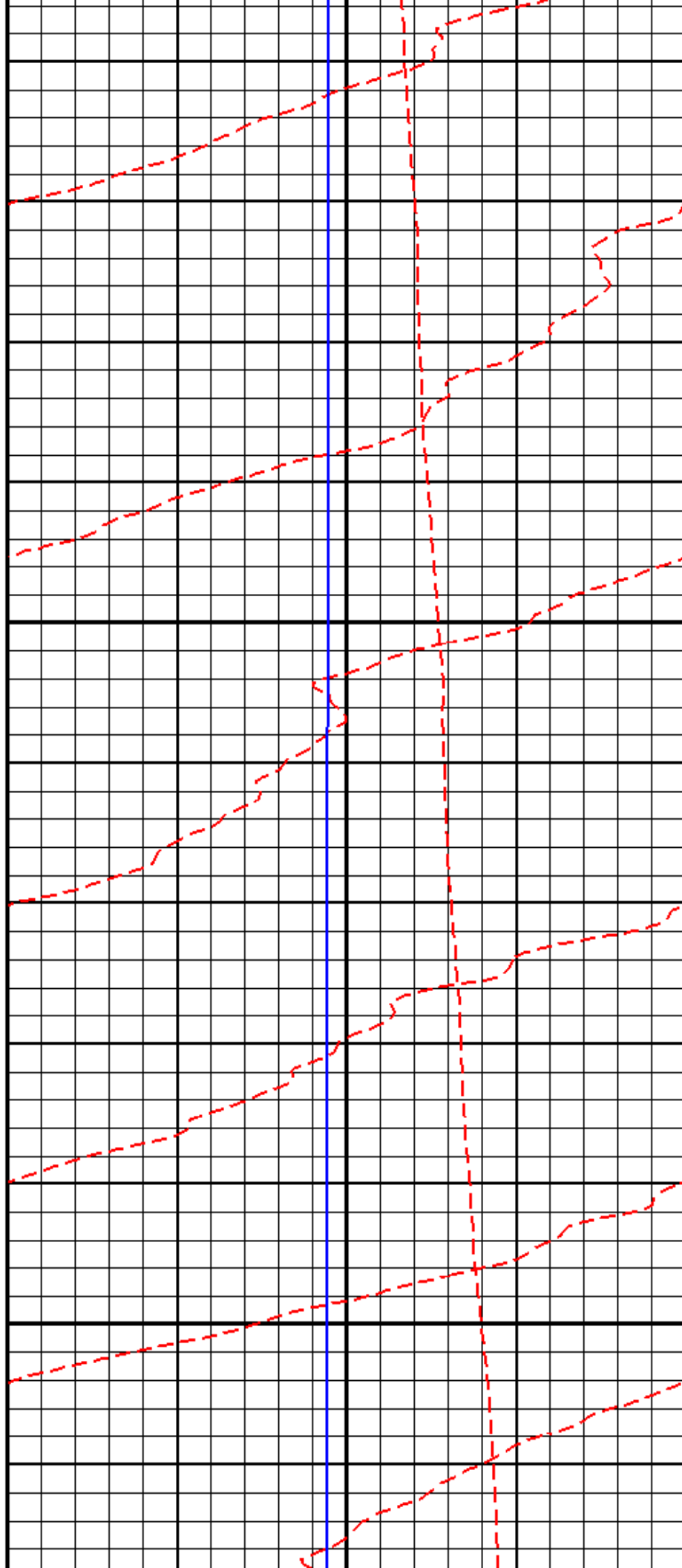
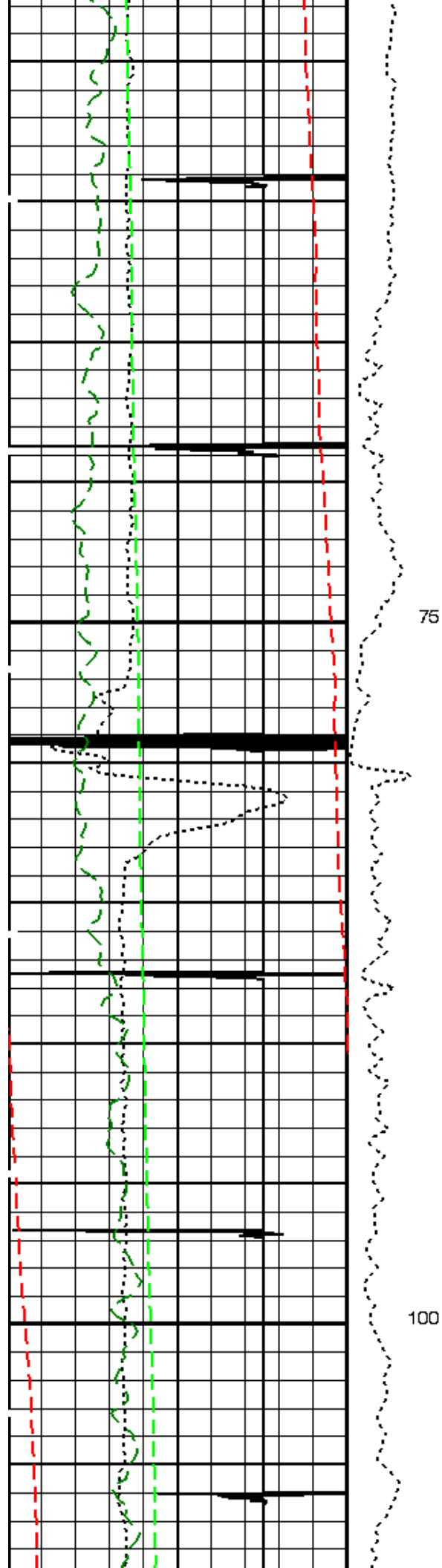
Gamma Ray (GR)  
(GAPI) 0 100

Discriminated CCL (CCLD)  
(V) 3 -1

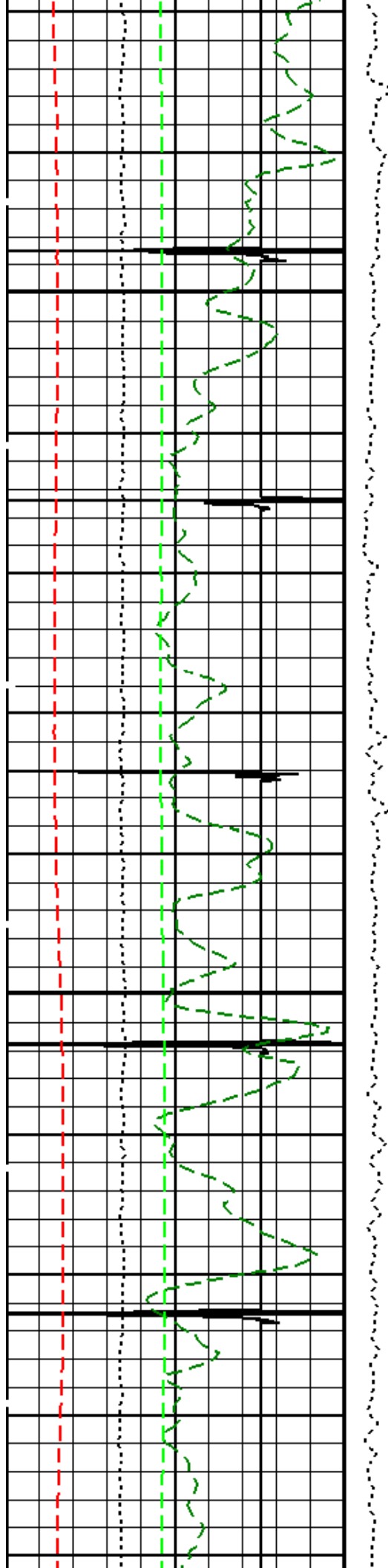
Well Temperature (WTEP)  
(DEGC) 0 150

Well Pressure (WPRES)  
(KPAA) 0 5000



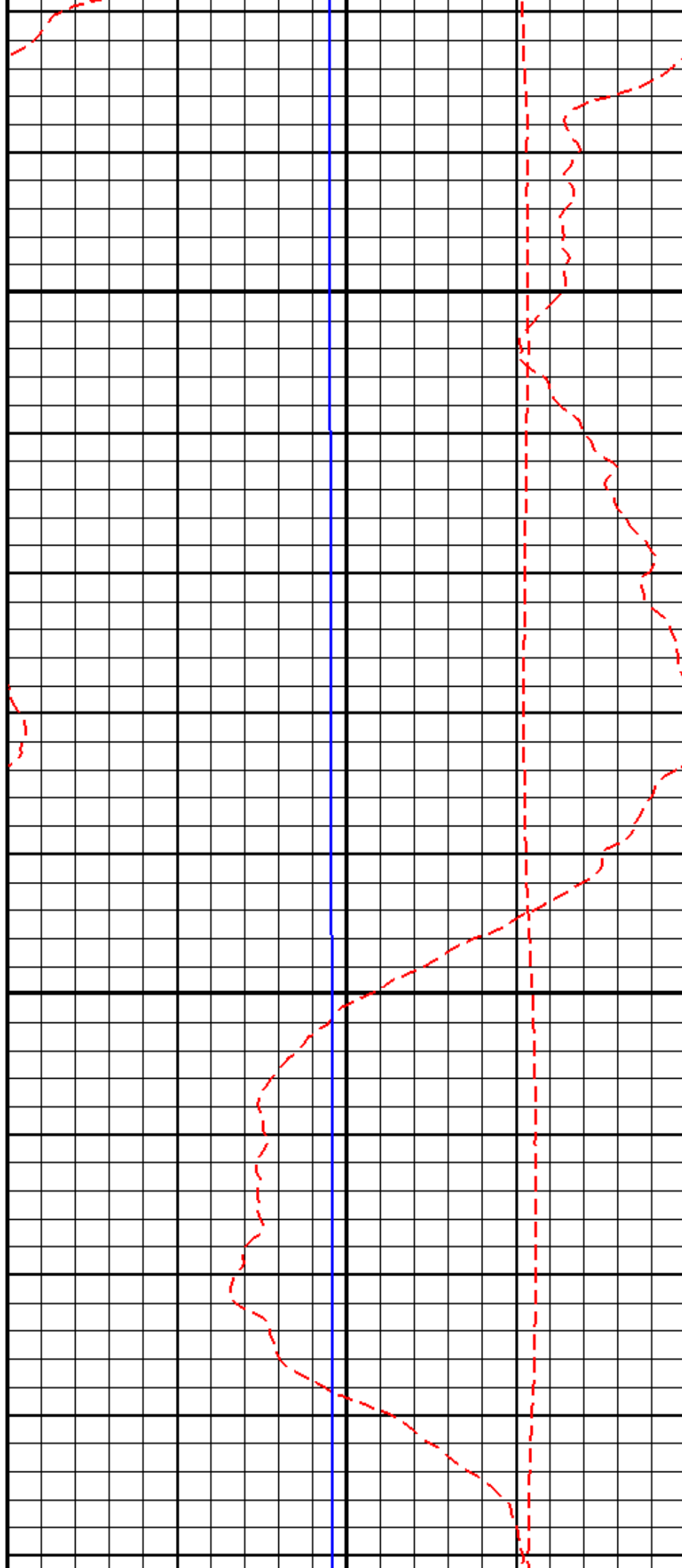




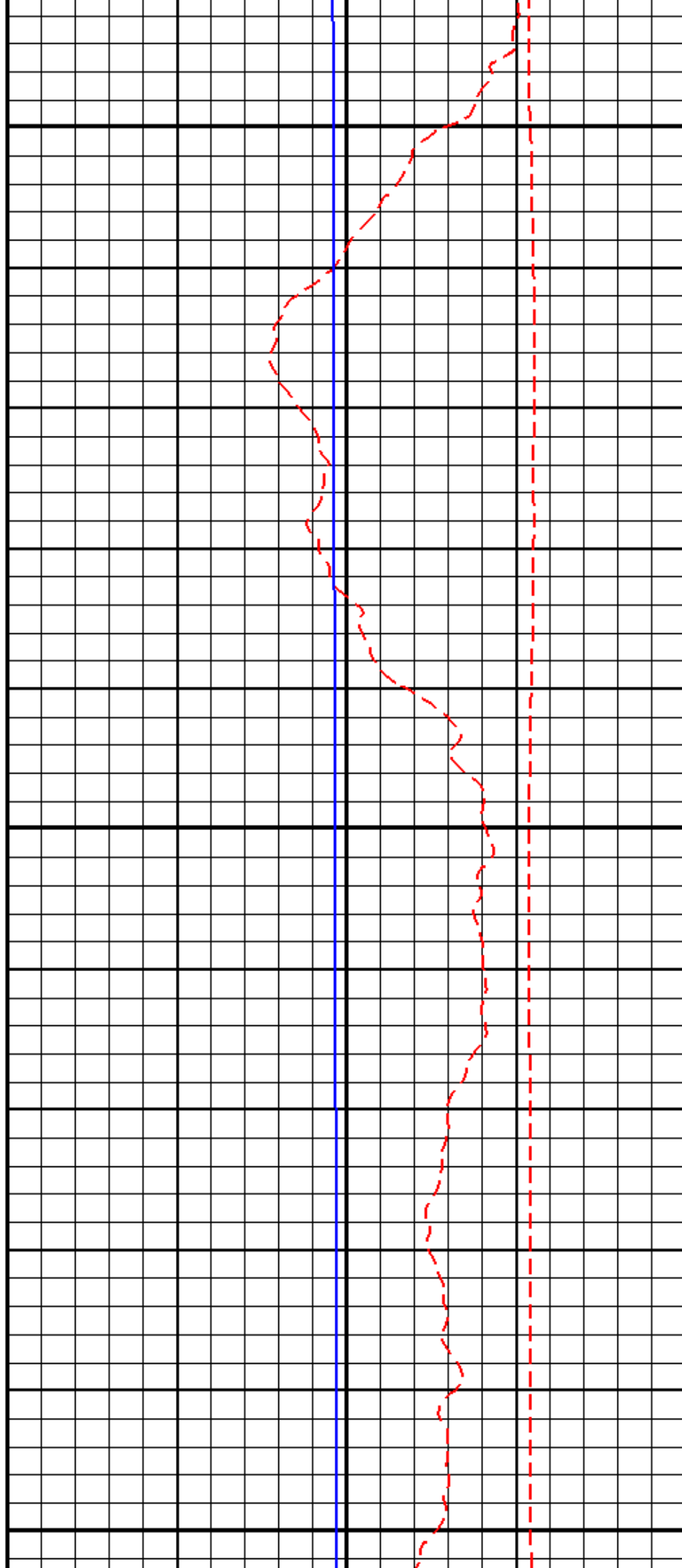
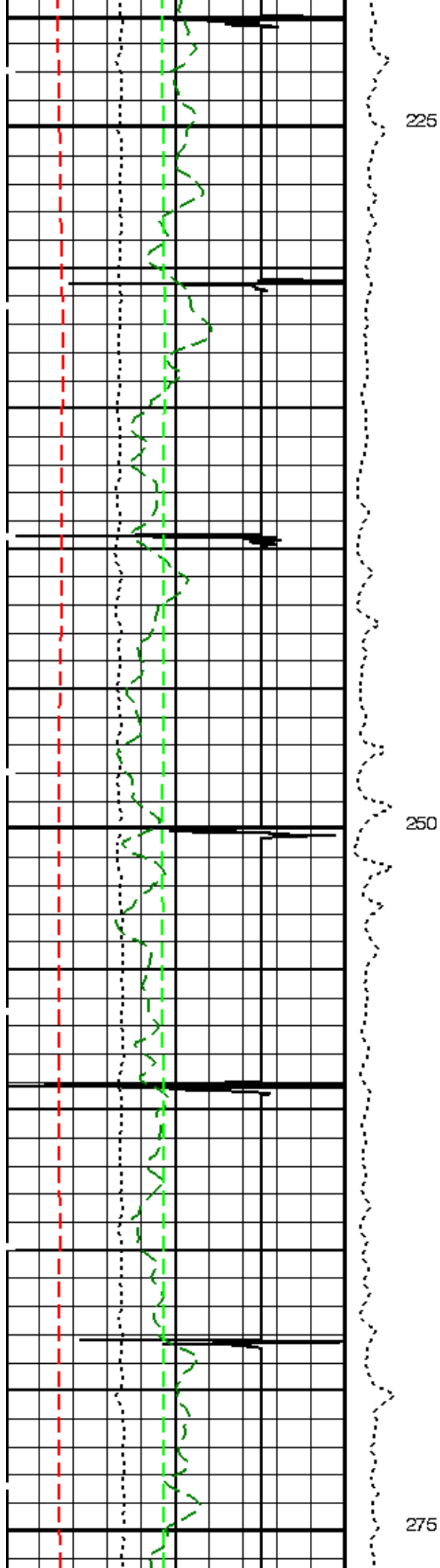


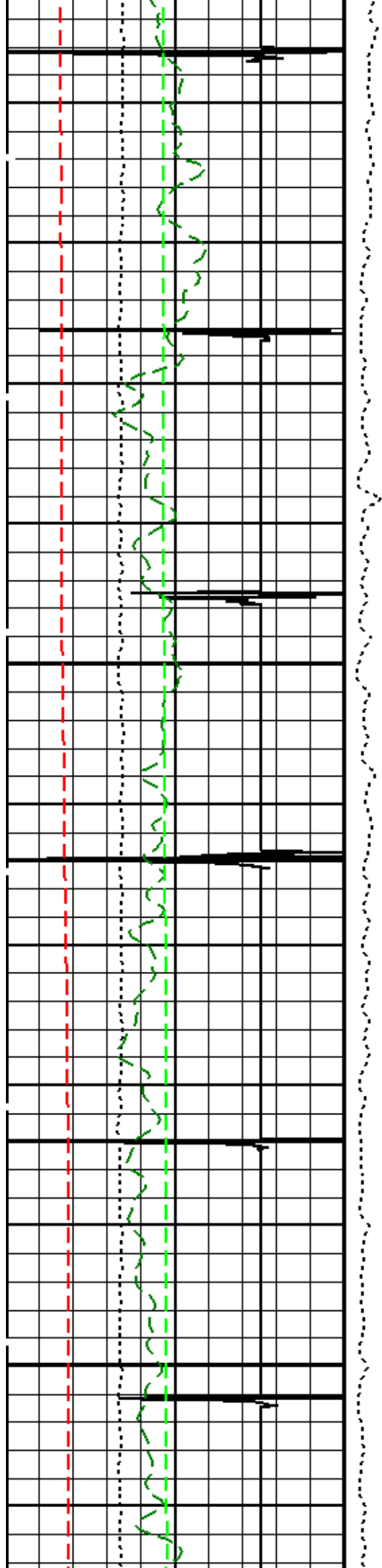
175

200



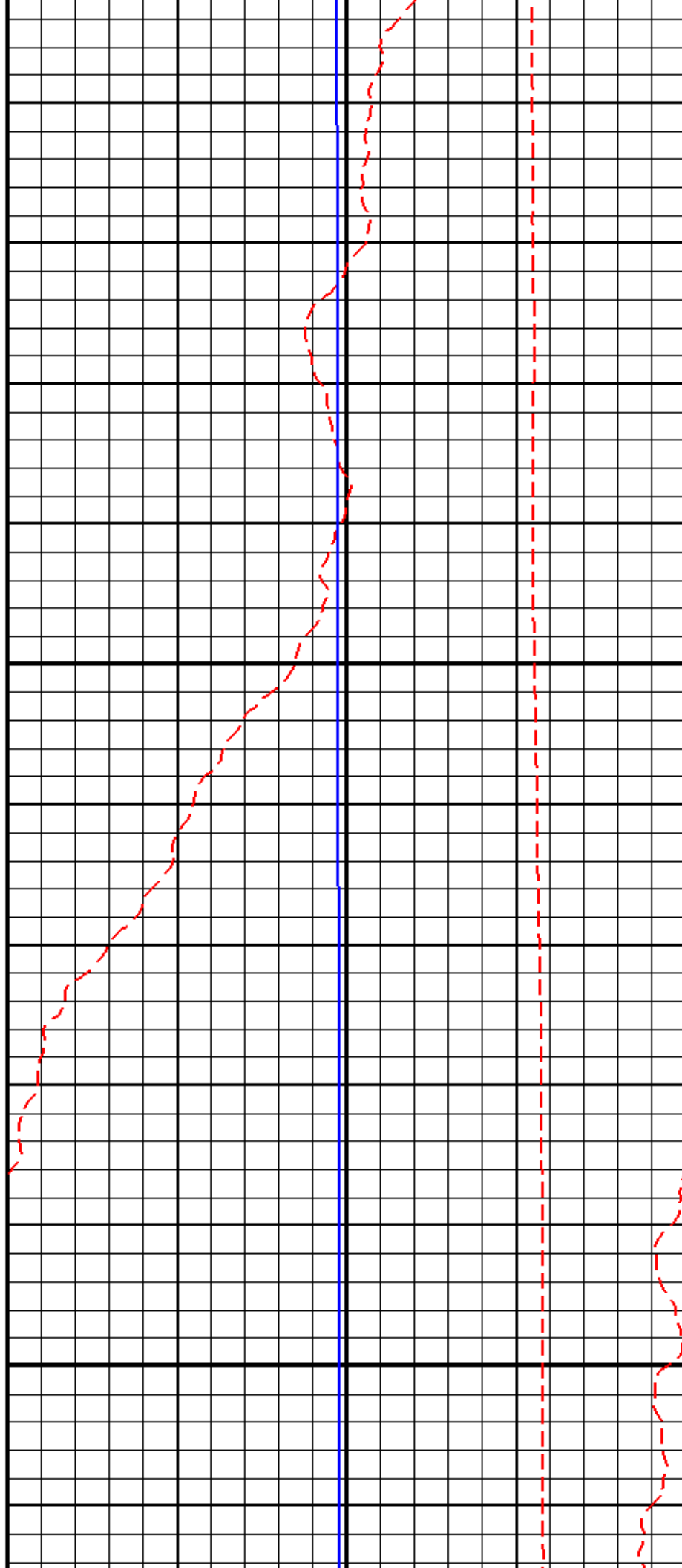


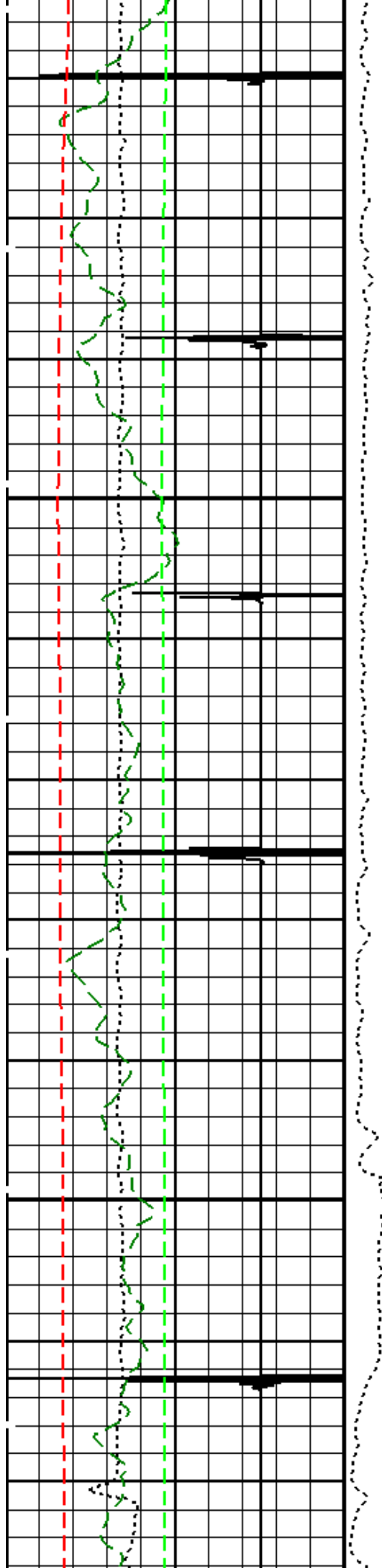




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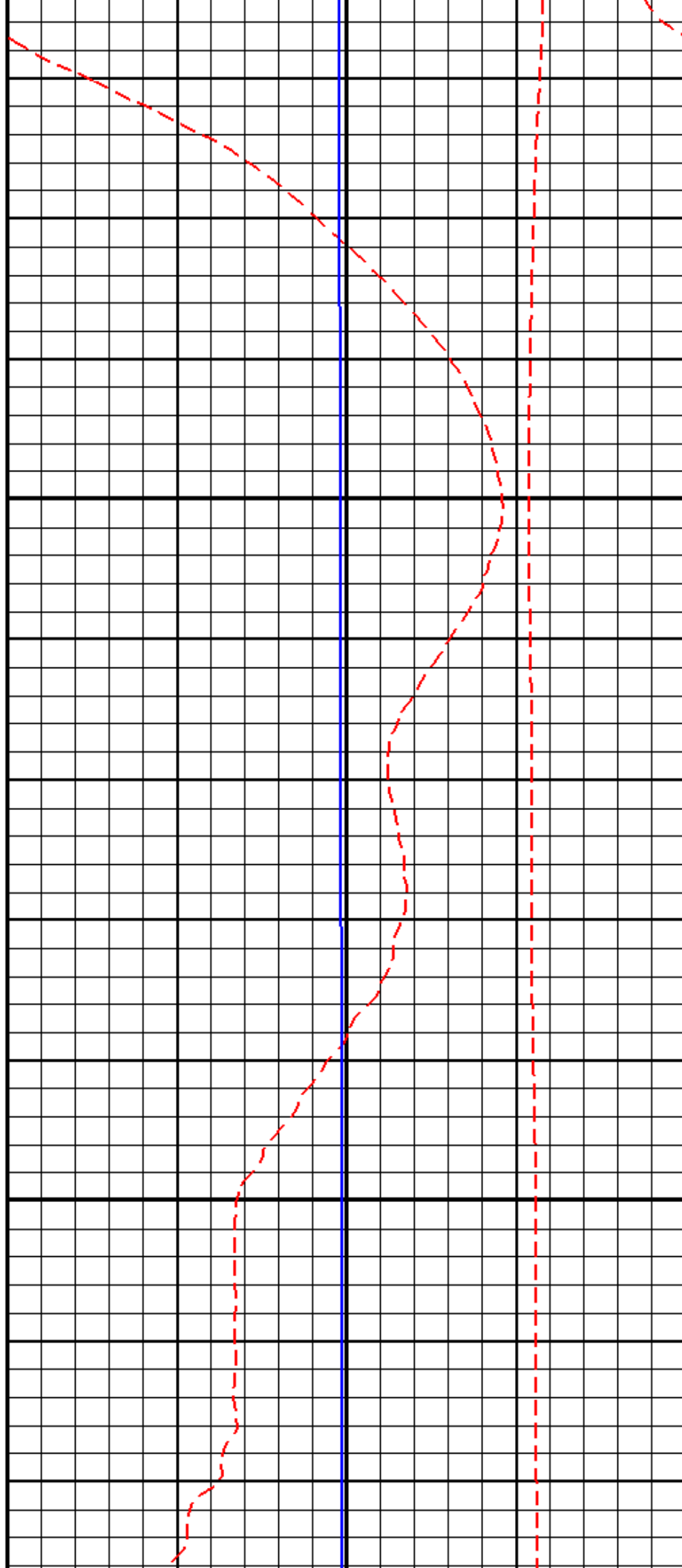
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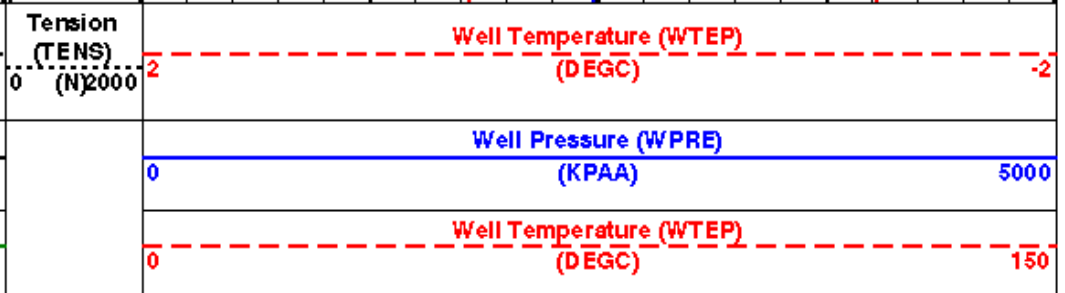
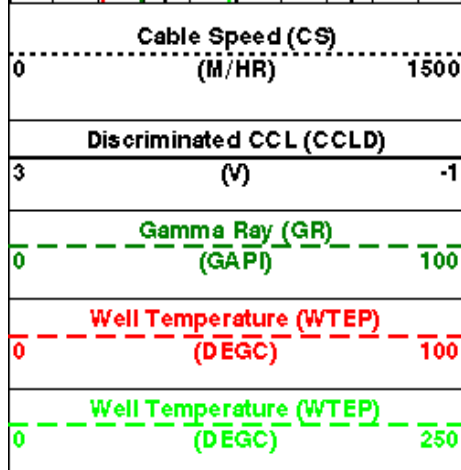
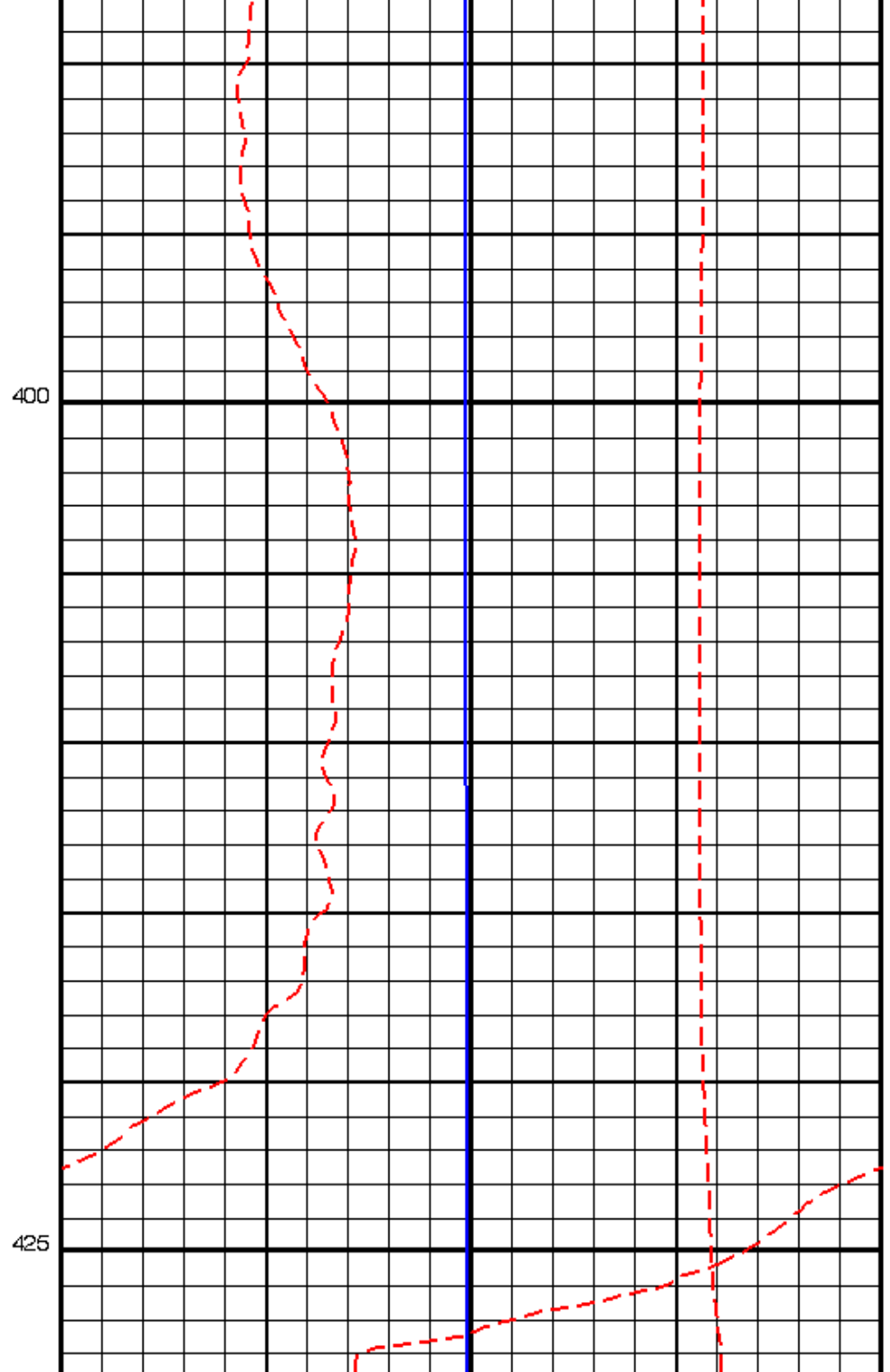
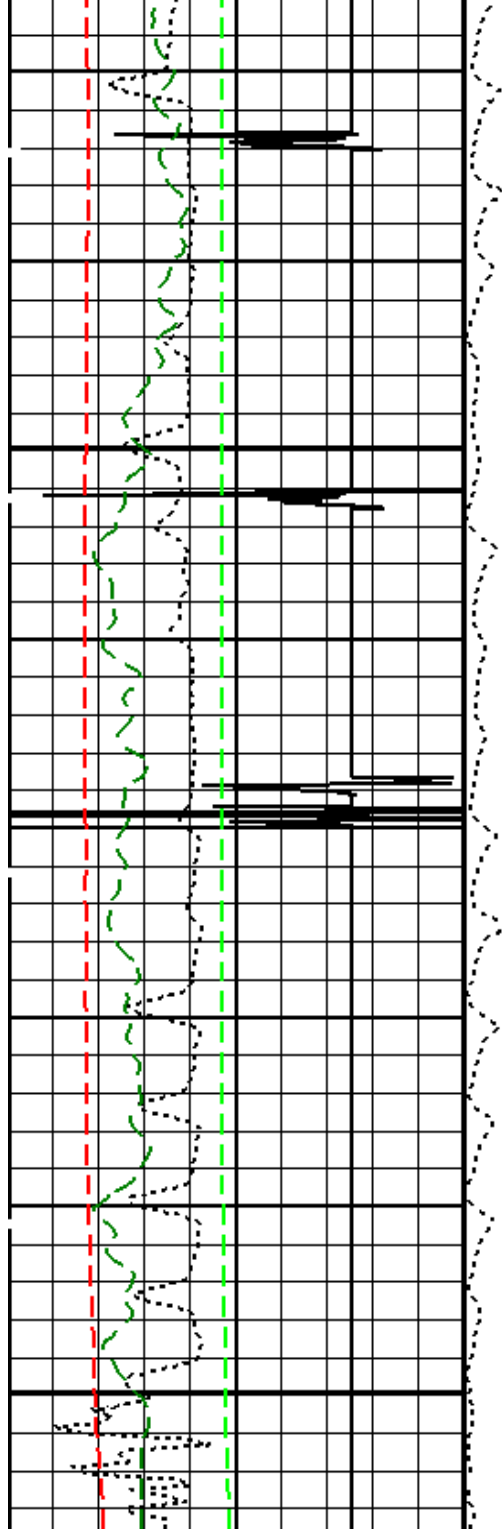




350

375





## PIP SUMMARY

**Time Mark Every 60 S**

Format: PSP 1      Vertical Scale: 1:200

Graphics File Created: 14-Jul-2017 16:53

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	-2.0 M NORMAL

Input DLIS Files

HBMS_003PUP	FN:1	14-Jul-2017 13:18	430.5 M	2.9 M
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Output DLIS Files

DEFAULT	HBMS_016PUP	FN:12	PRODUCER	14-Jul-2017 16:53
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Schlumberger

UP PASS  
616 MKB - SURFACE

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES LIMITED

Well: IMP07 H62-H01 COLD LK 2-20-66-4

Input DLIS Files

DEFAULT	HBMS_007LUP	FN:3	PRODUCER	14-Jul-2017 13:37	616.0 M	4.0 M
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Output DLIS Files

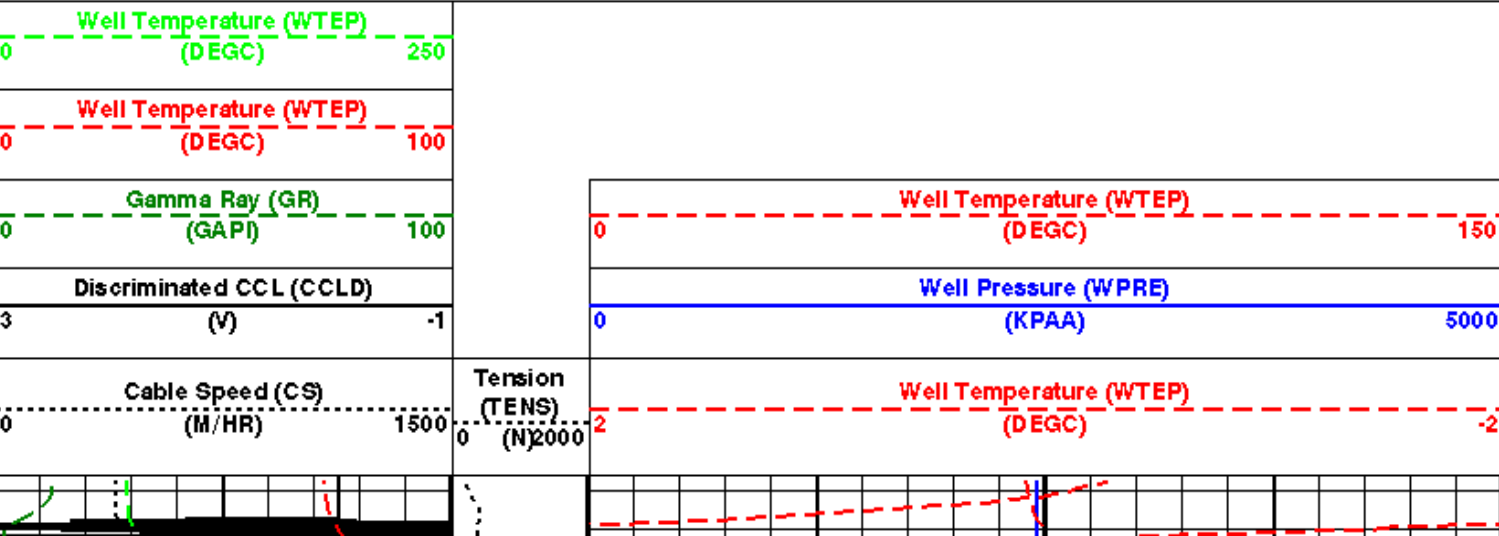
DEFAULT	HBMS_010PUP	FN:6	PRODUCER	14-Jul-2017 15:13	614.6 M	2.6 M
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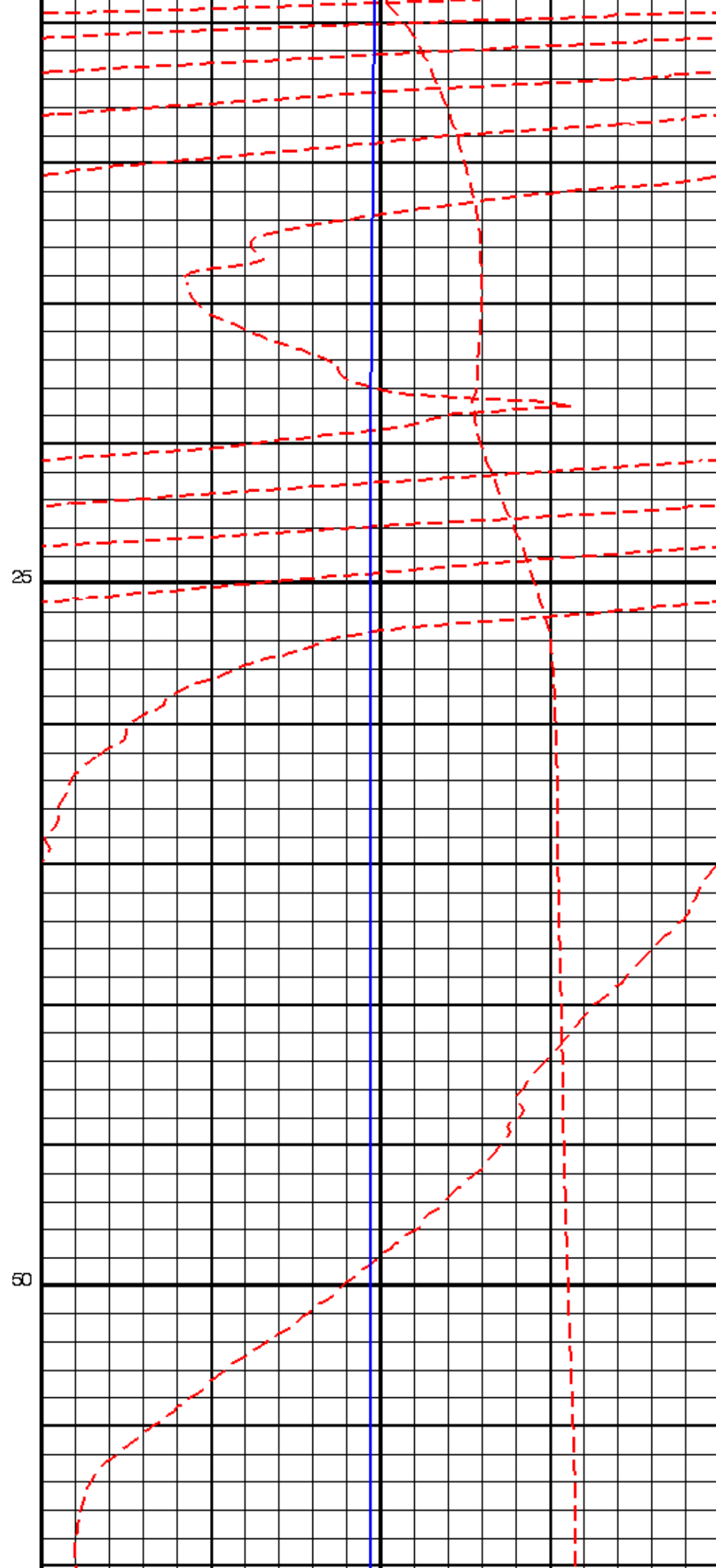
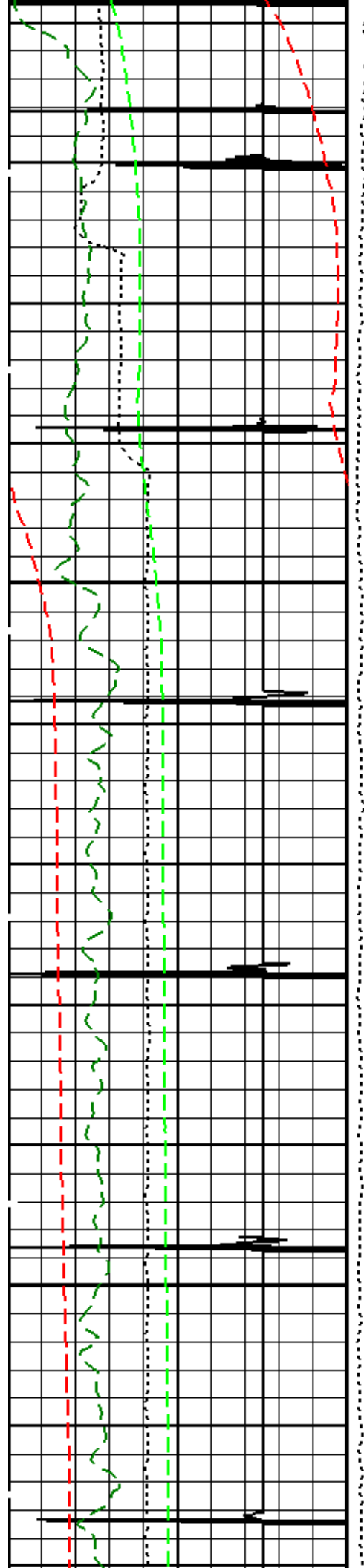
OP System Version: 19C2-270

HBMS-B 19C2-270

PIP SUMMARY

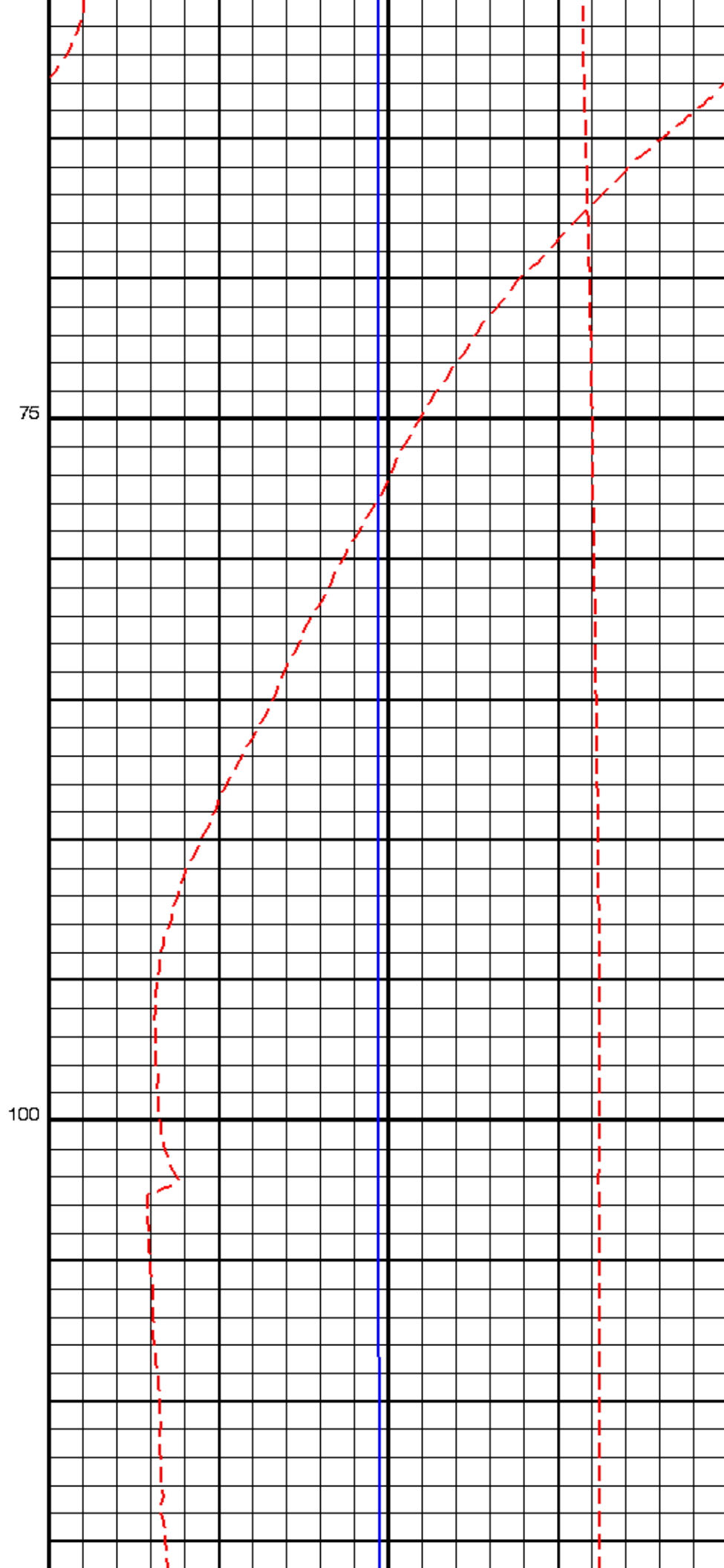
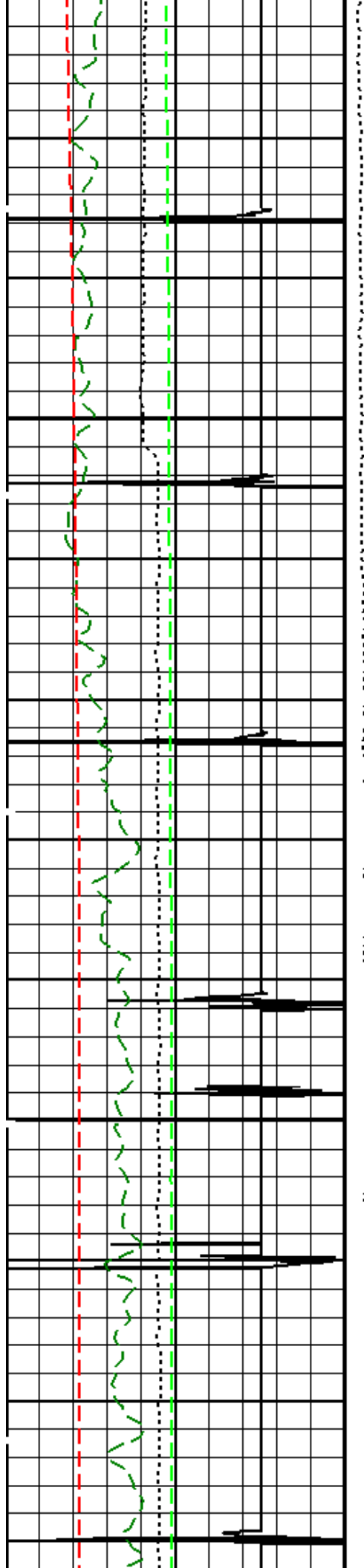
Time Mark Every 60 S

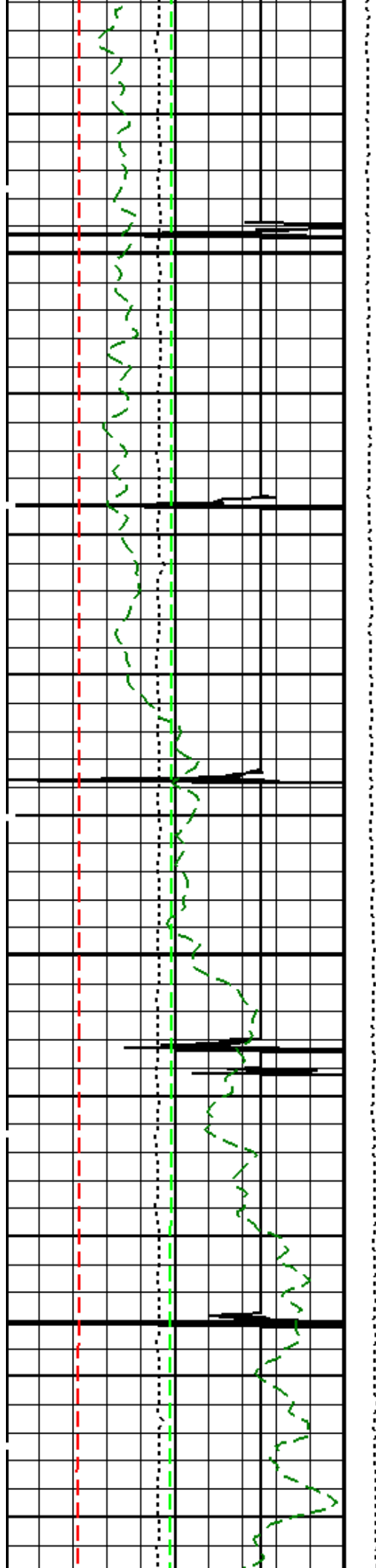




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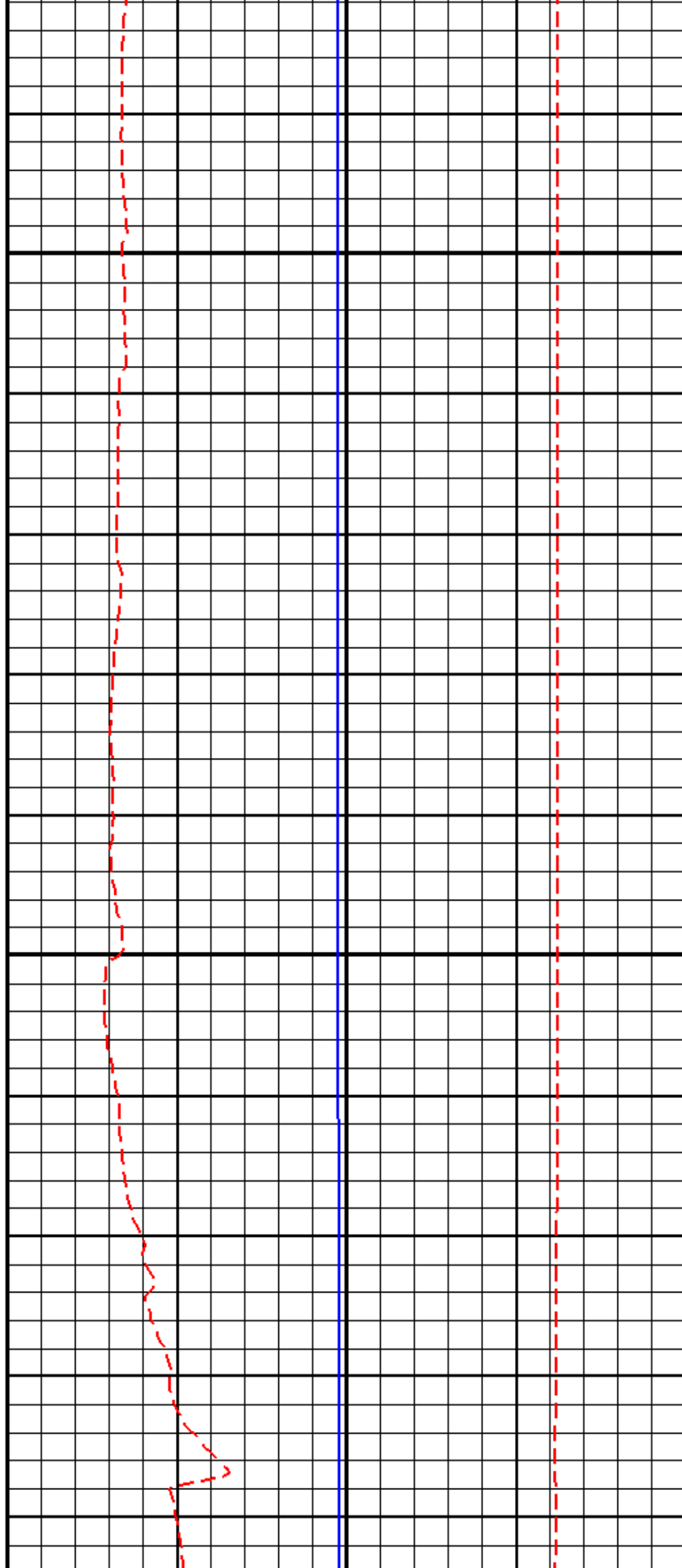
50



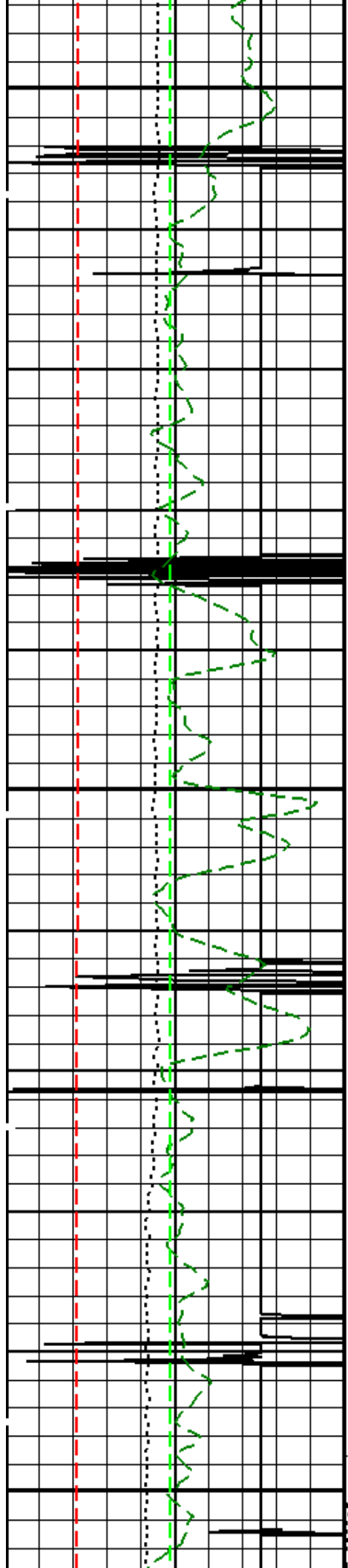


125

150



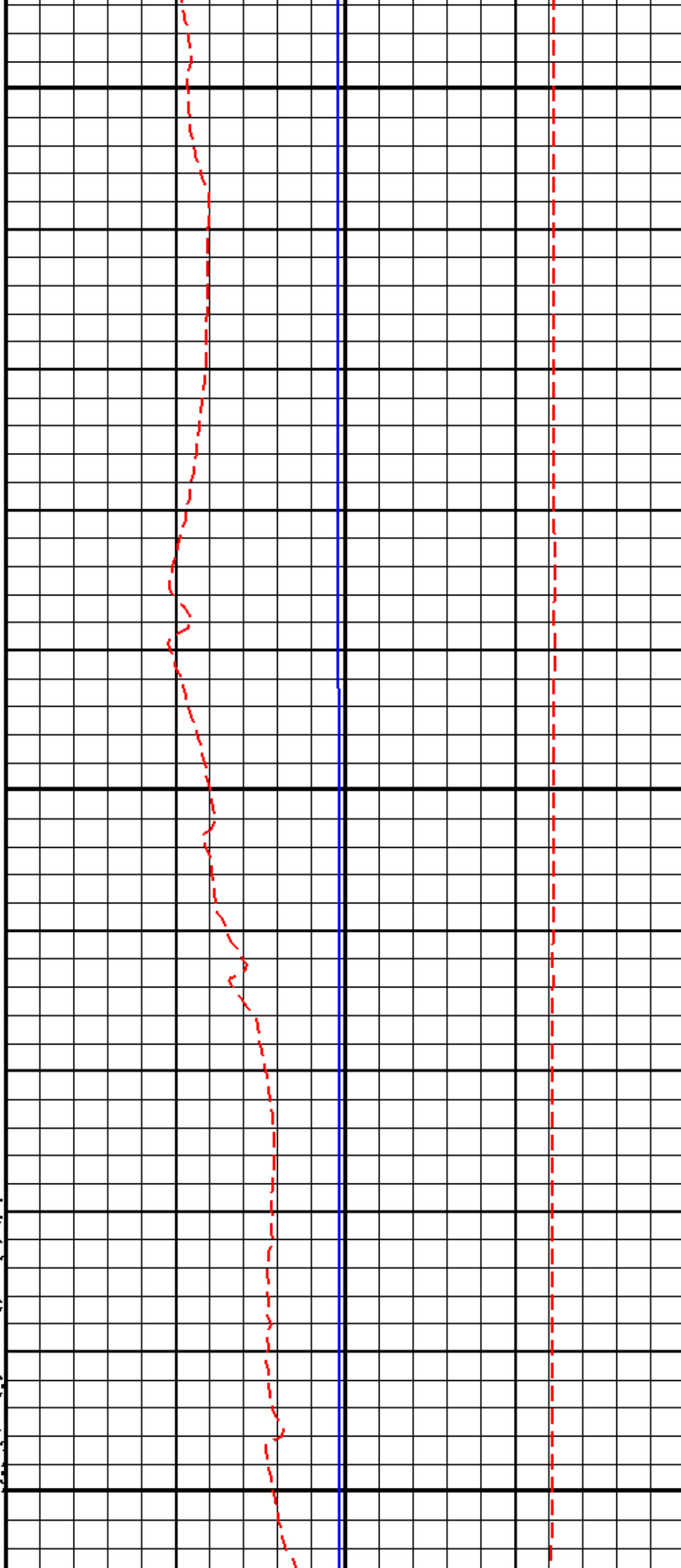


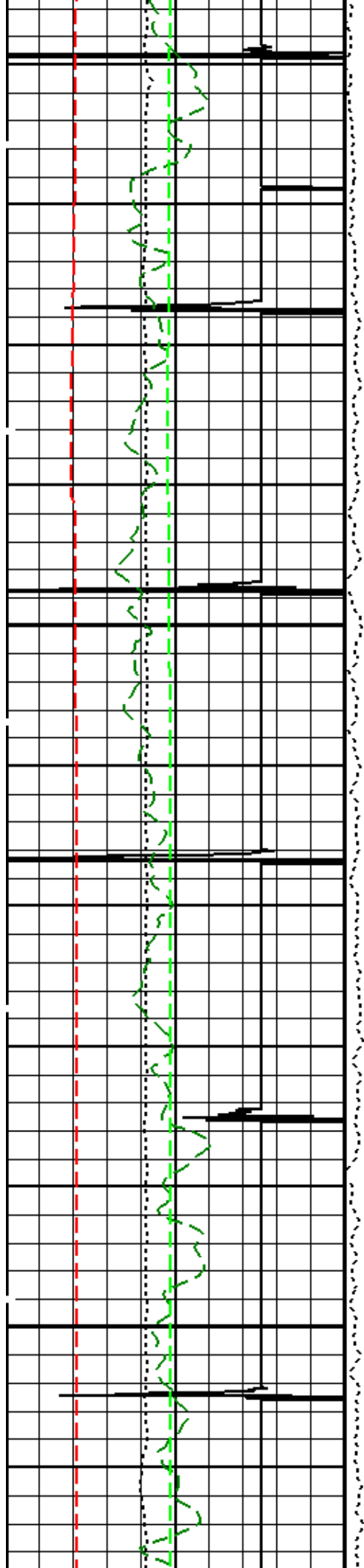


175

200

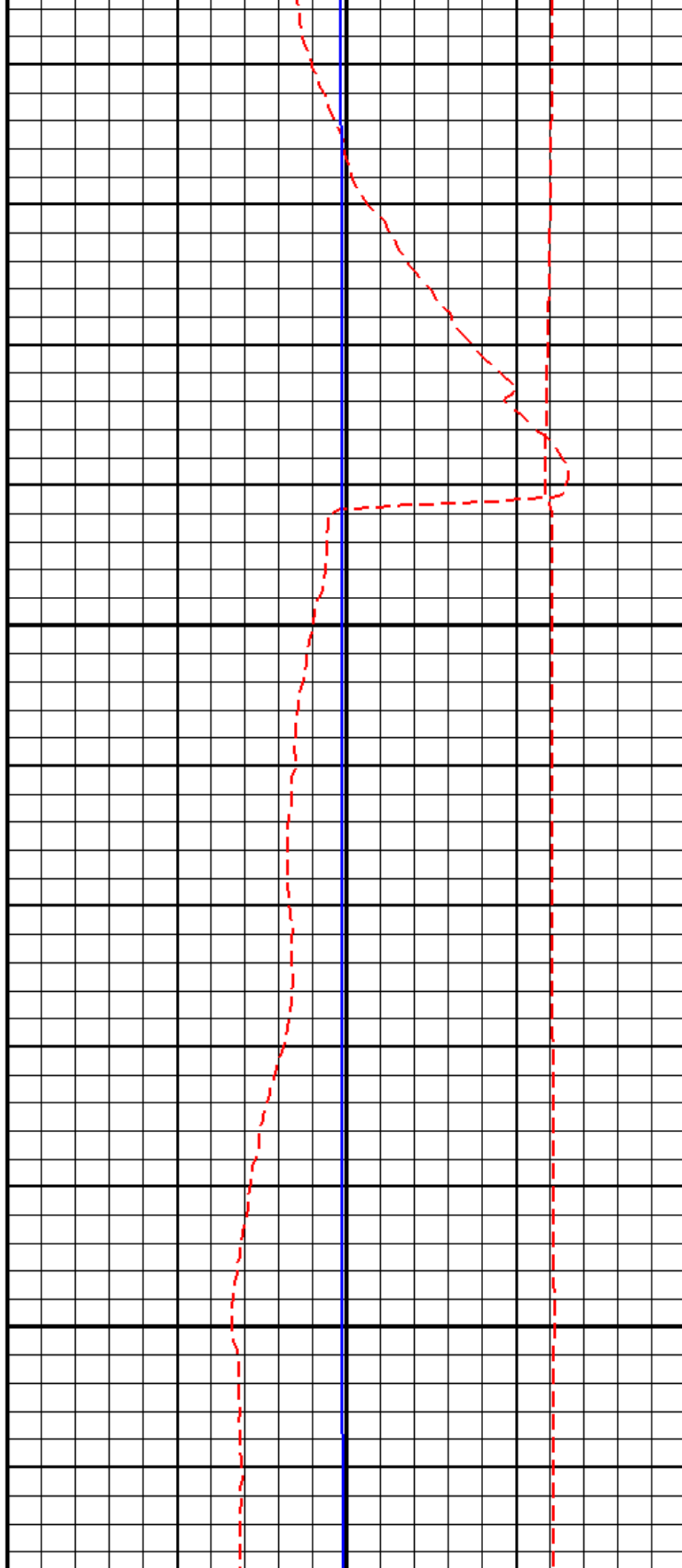
225

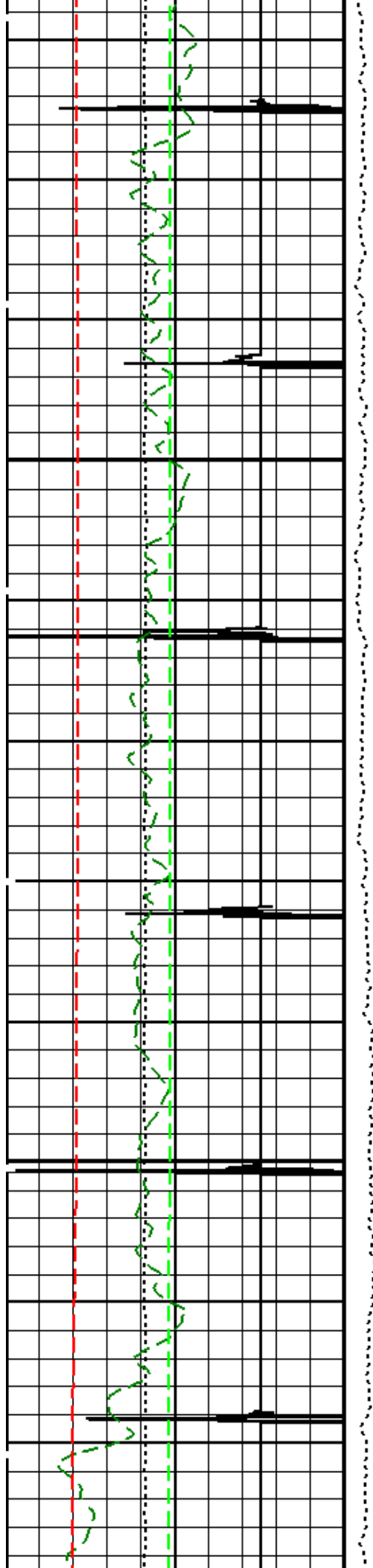




250

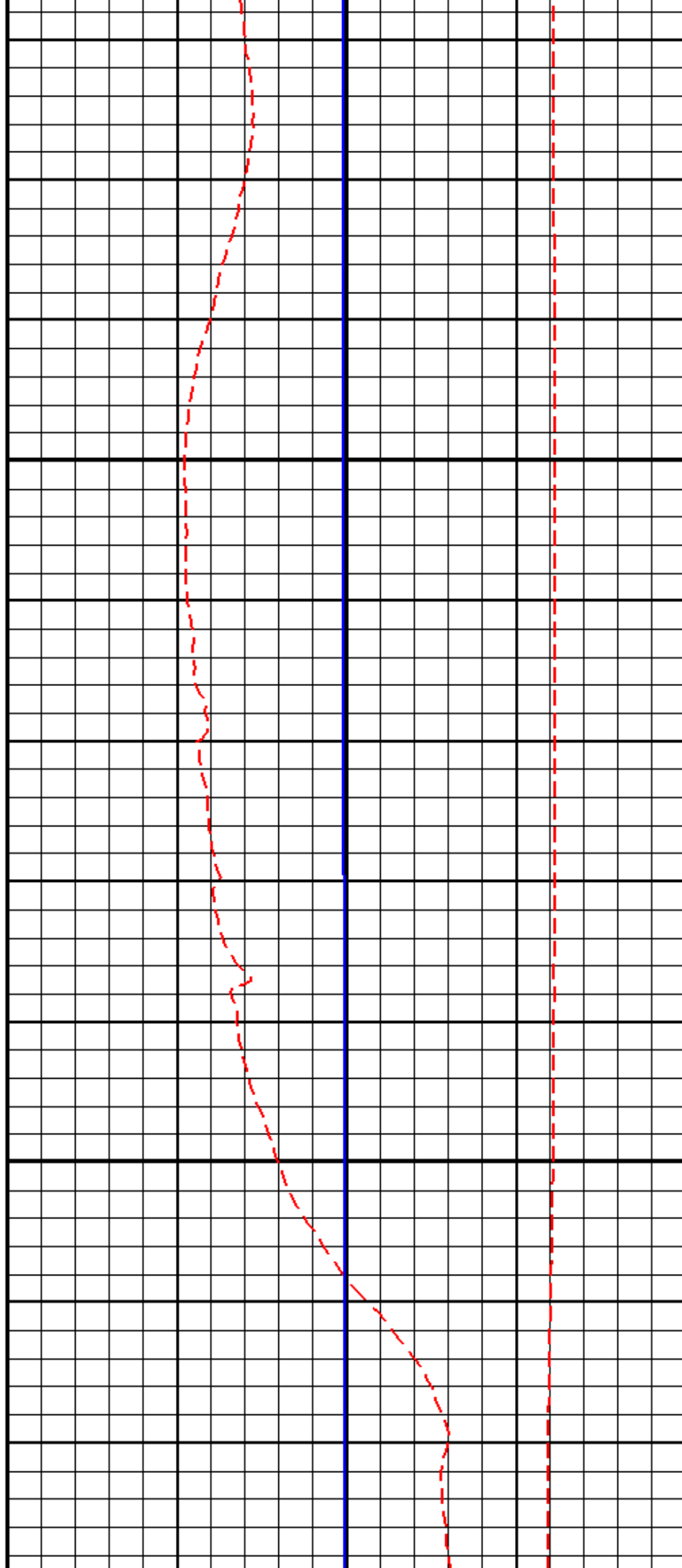
275

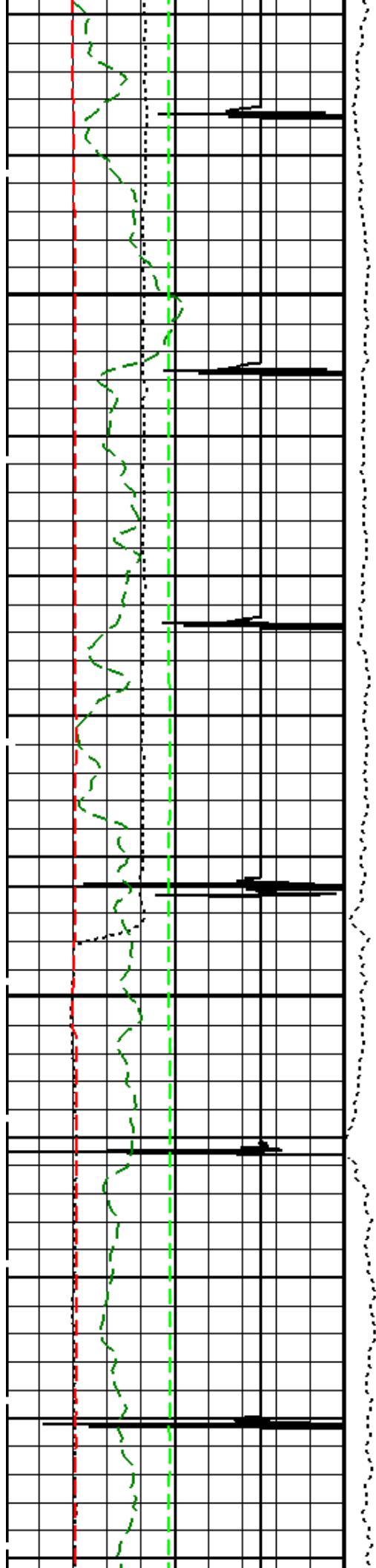




300

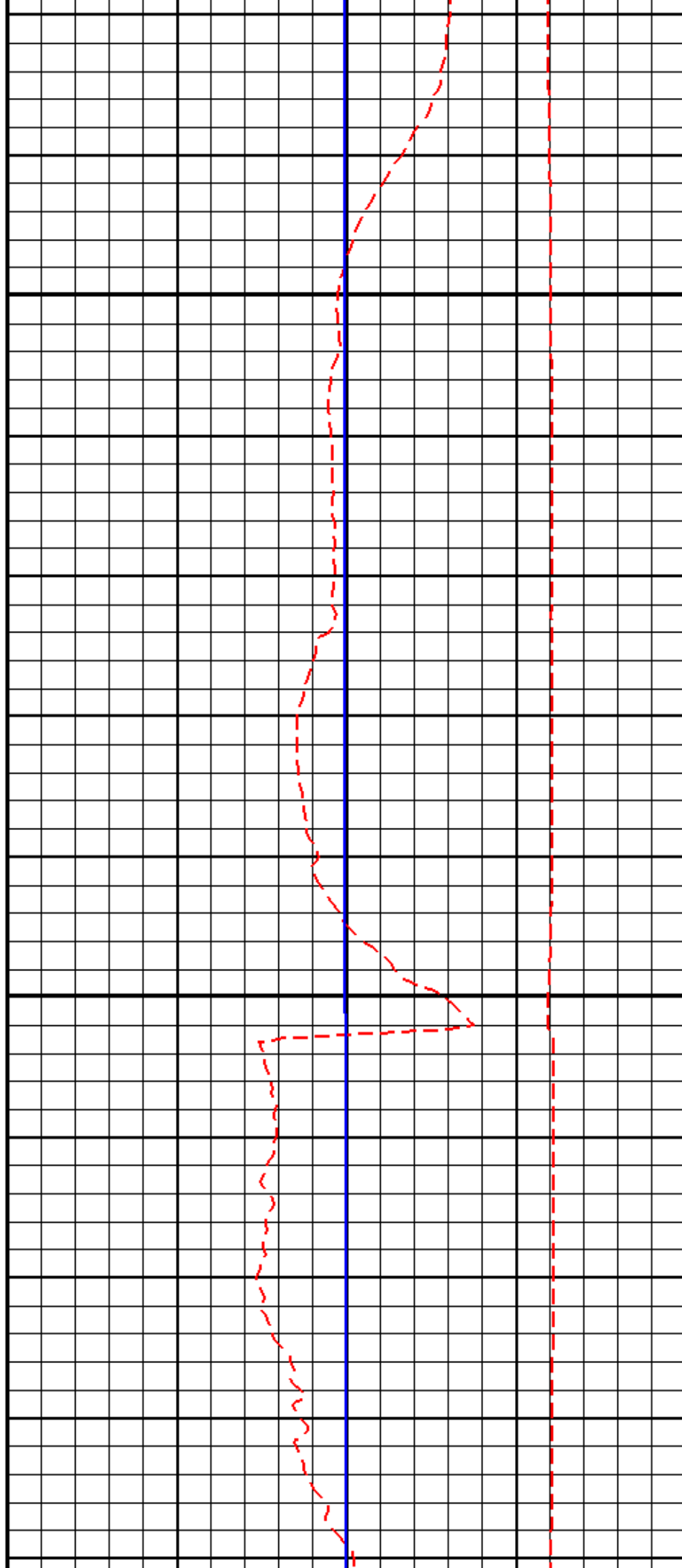
325

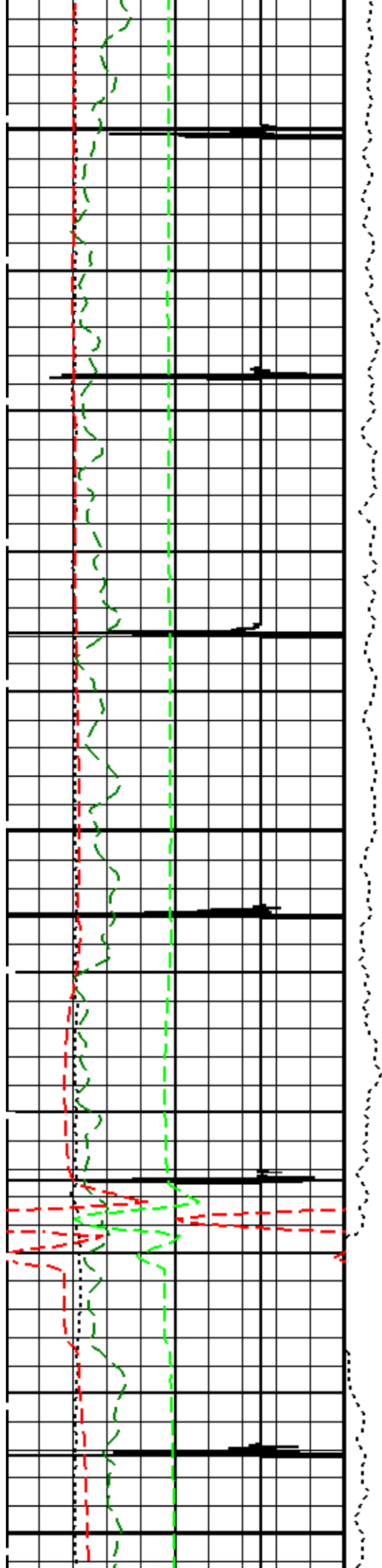




350

375

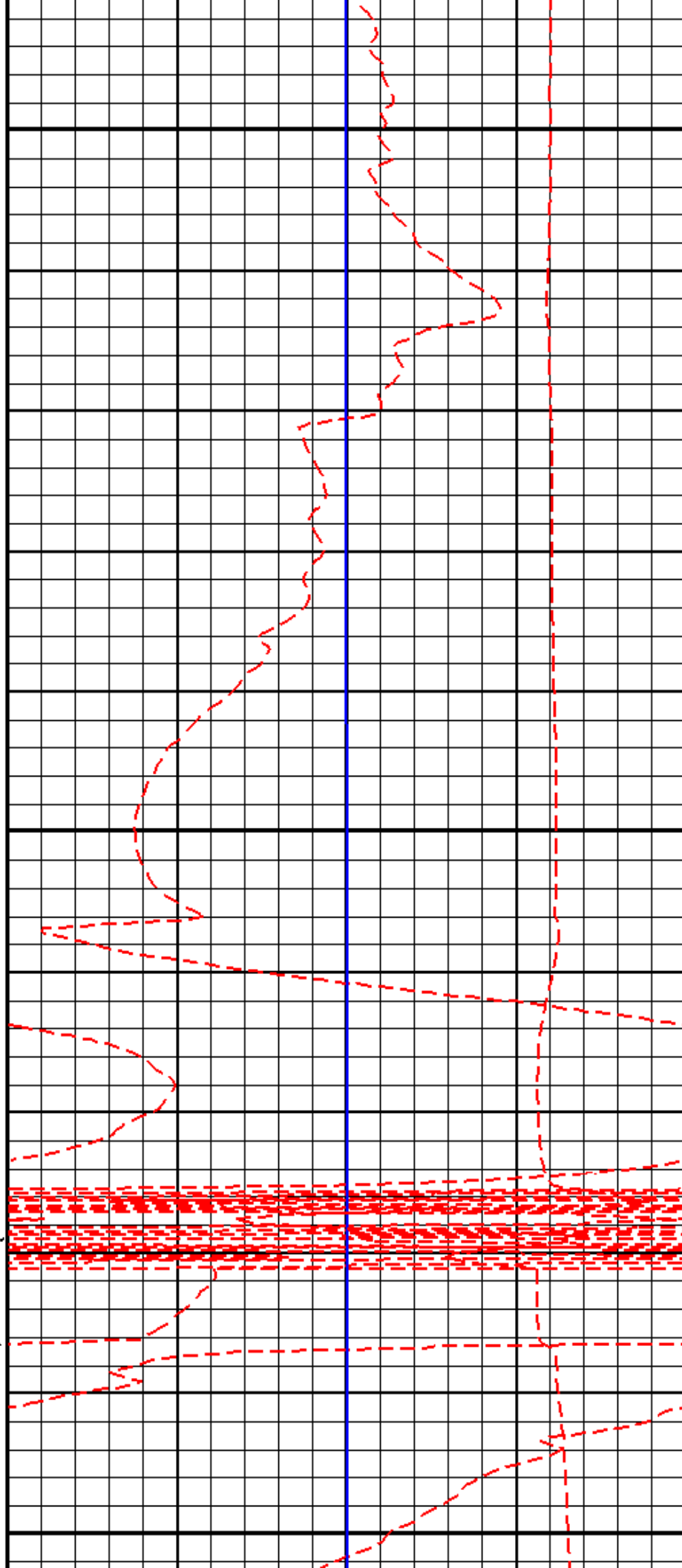


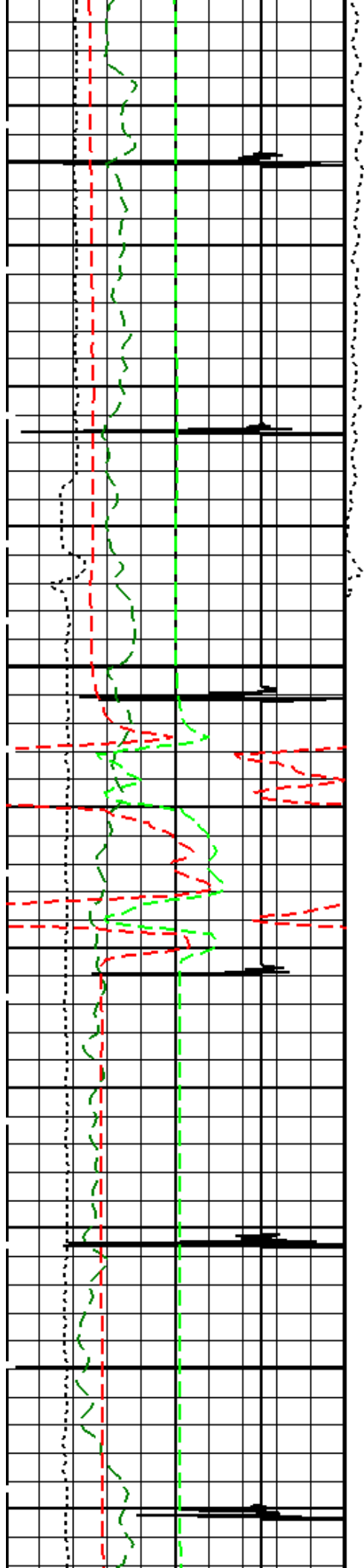


400

425

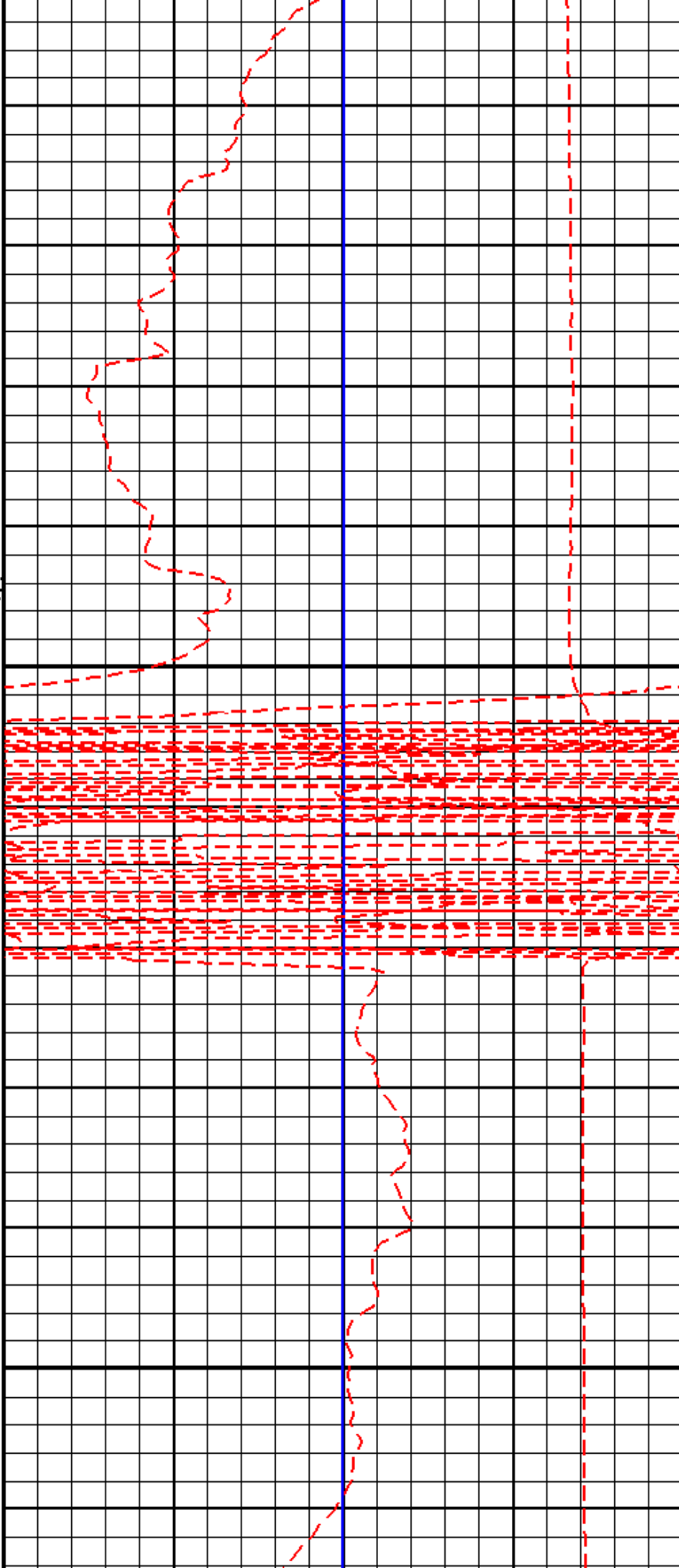
450

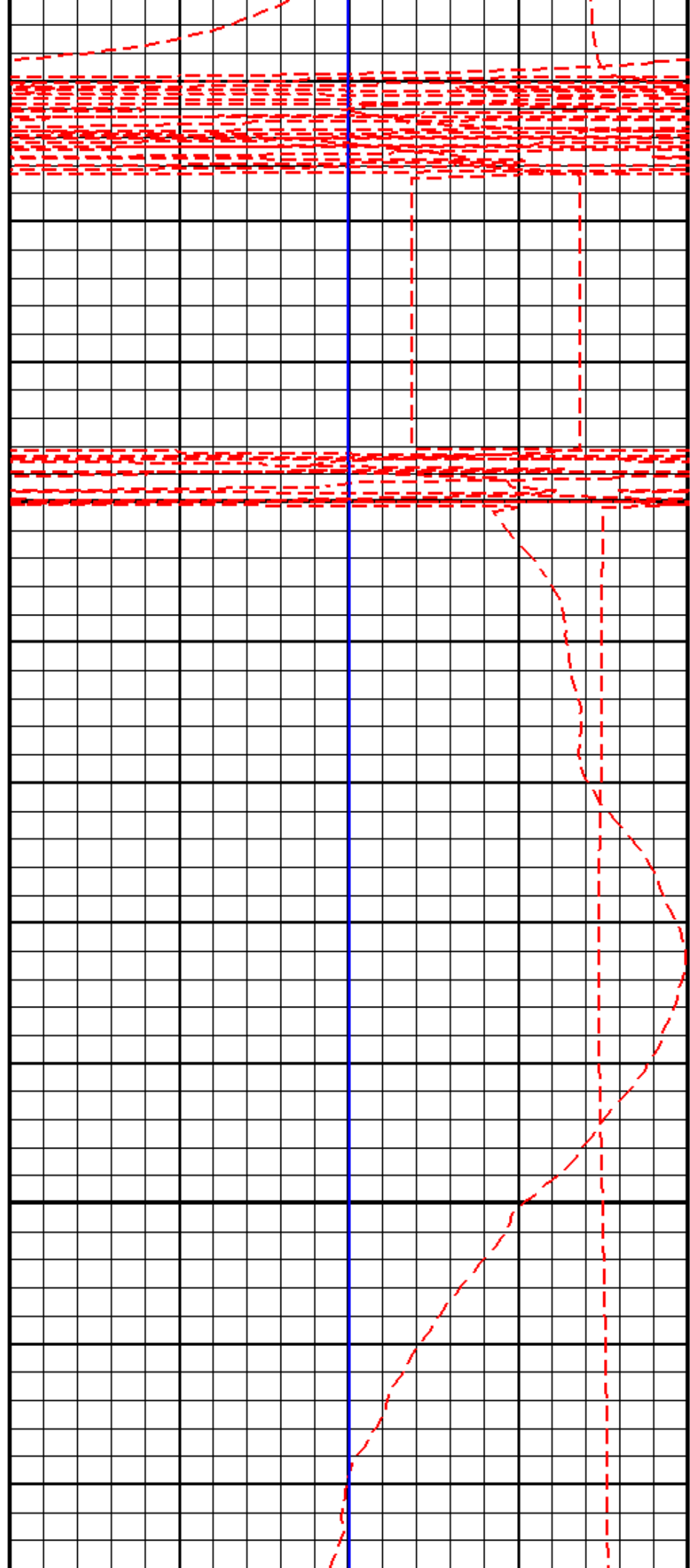
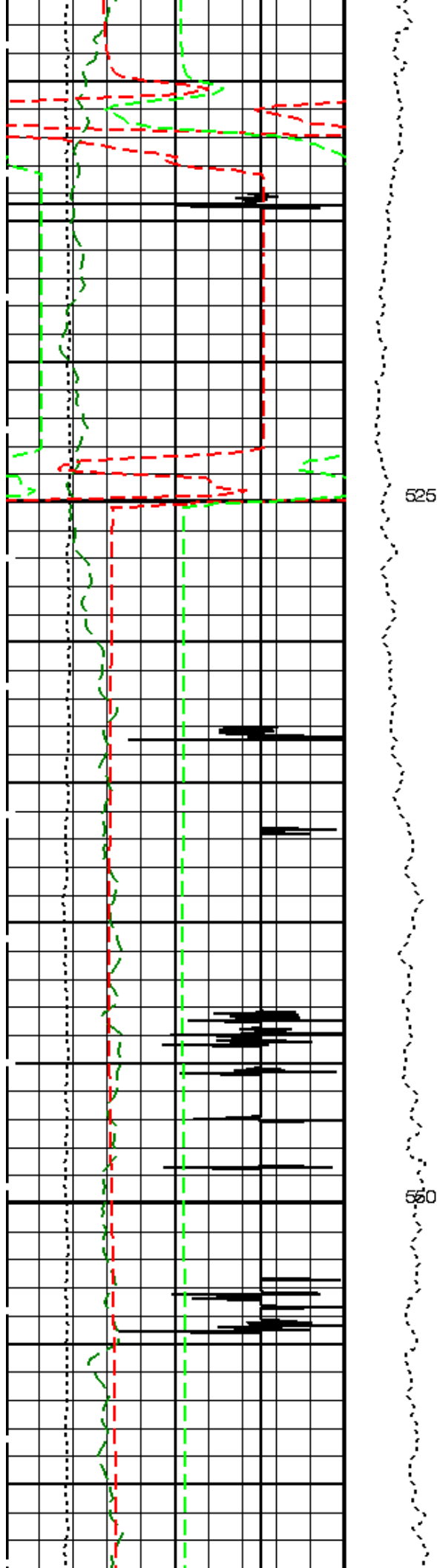


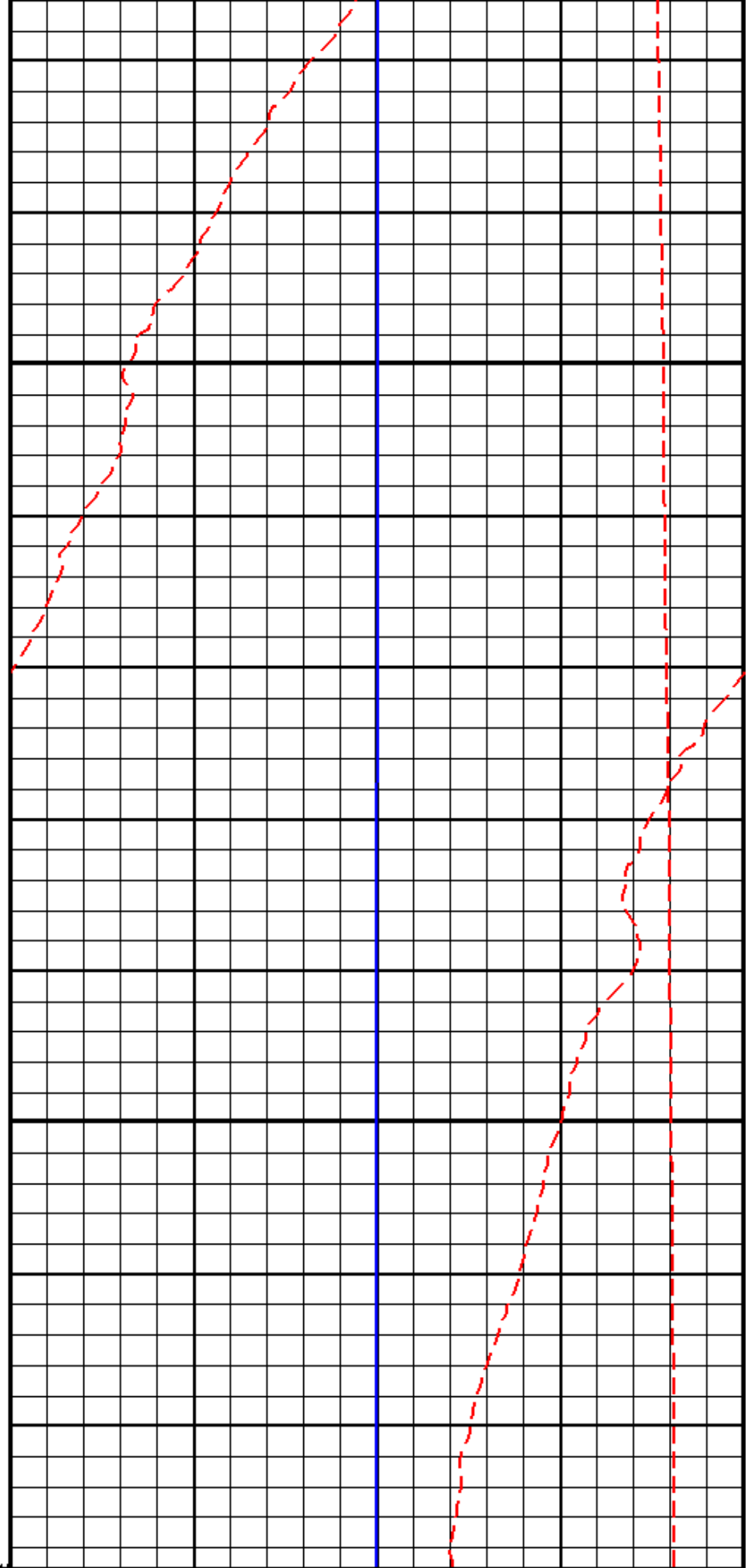
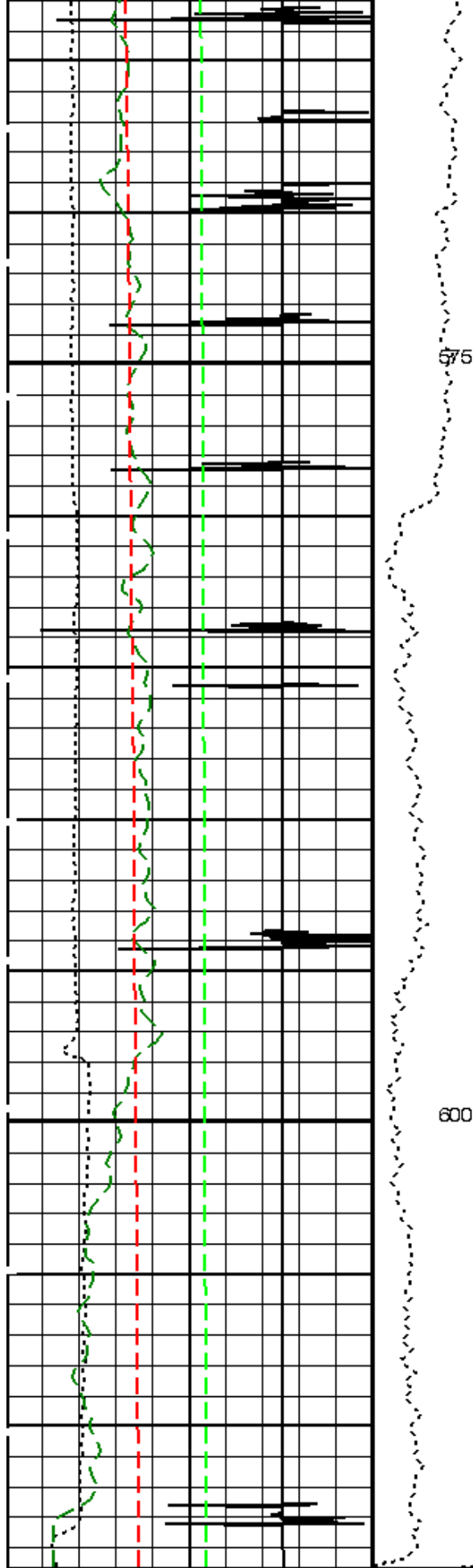


476

600







Cable Speed (CS)  
(M/HR)

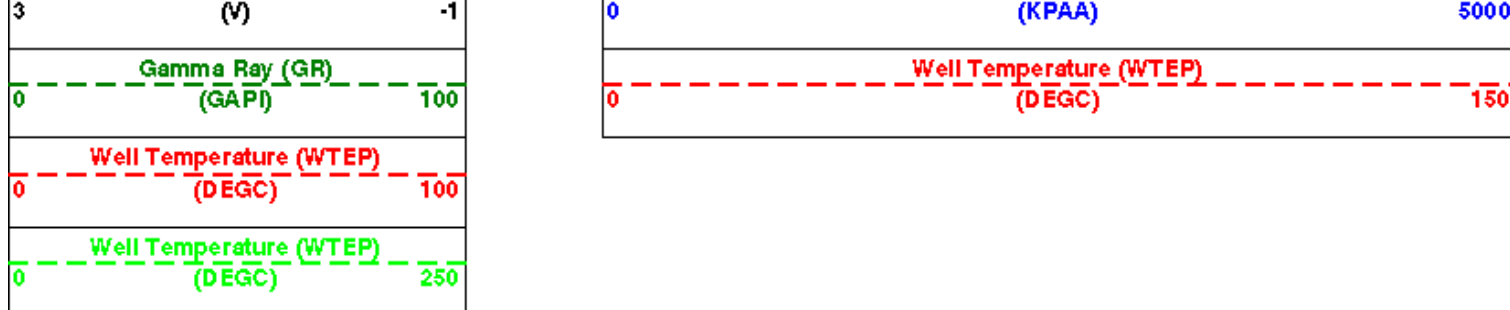
Discriminated CCL (CCLD)

Tension  
(TENS)  
(N)

Well Temperature (WTEP)  
(DEGC)

Well Pressure (WPPE)





PIP SUMMARY

Time Mark Every 60 S


Format: PSP\_1    Vertical Scale: 1:200

Graphics File Created: 14-Jul-2017 15:13

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			-1.3 M NORMAL		
Input DLIS Files						
DEFAULT	HBMS_007LUP	FN:3	PRODUCER	14-Jul-2017 13:37	616.0 M	4.0 M
Output DLIS Files						
DEFAULT	HBMS_010PUP	FN:6	PRODUCER	14-Jul-2017 15:13		



UP PASS

523 MKB - SURFACE

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES LIMITED

Well: IMP07 H62-H01 COLD LK 2-20-66-4

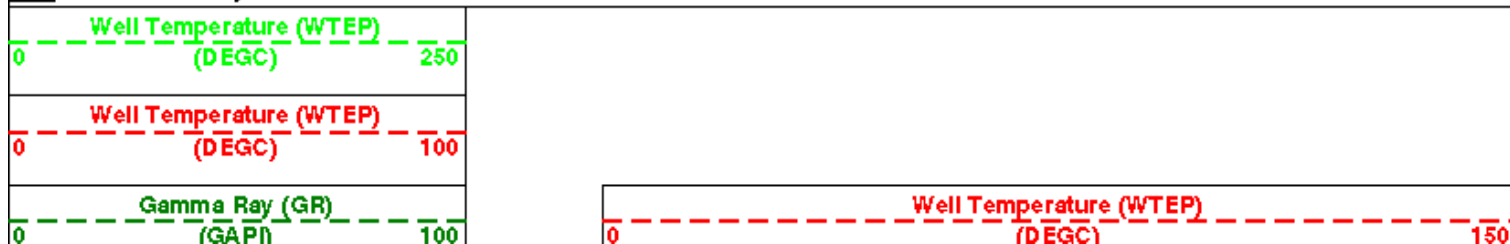
Output DLIS Files						
DEFAULT	HBMS_011LUP	FN:7	PRODUCER	14-Jul-2017 15:47	523.3 M	2.3 M

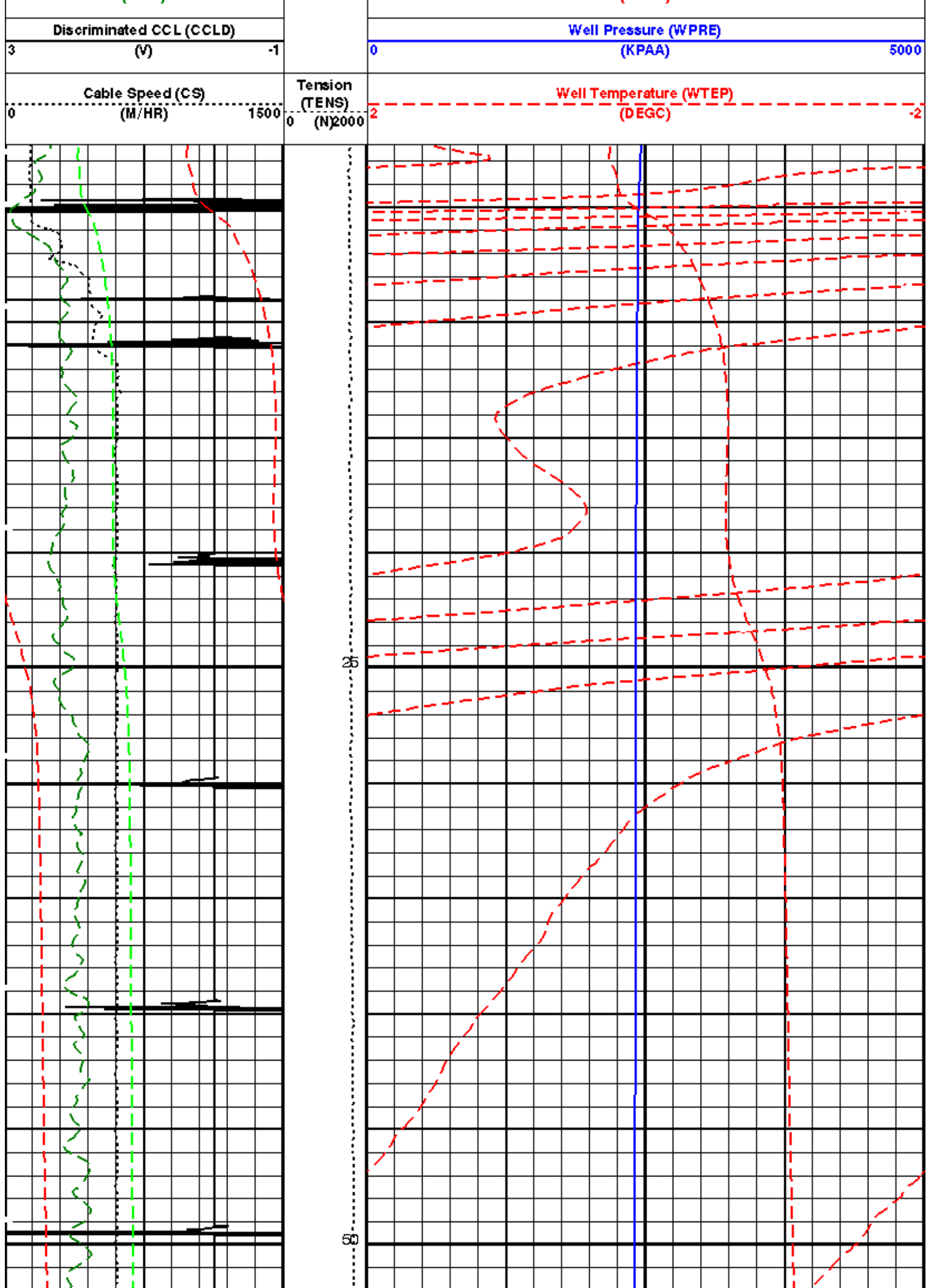
OP System Version: 19C2-270

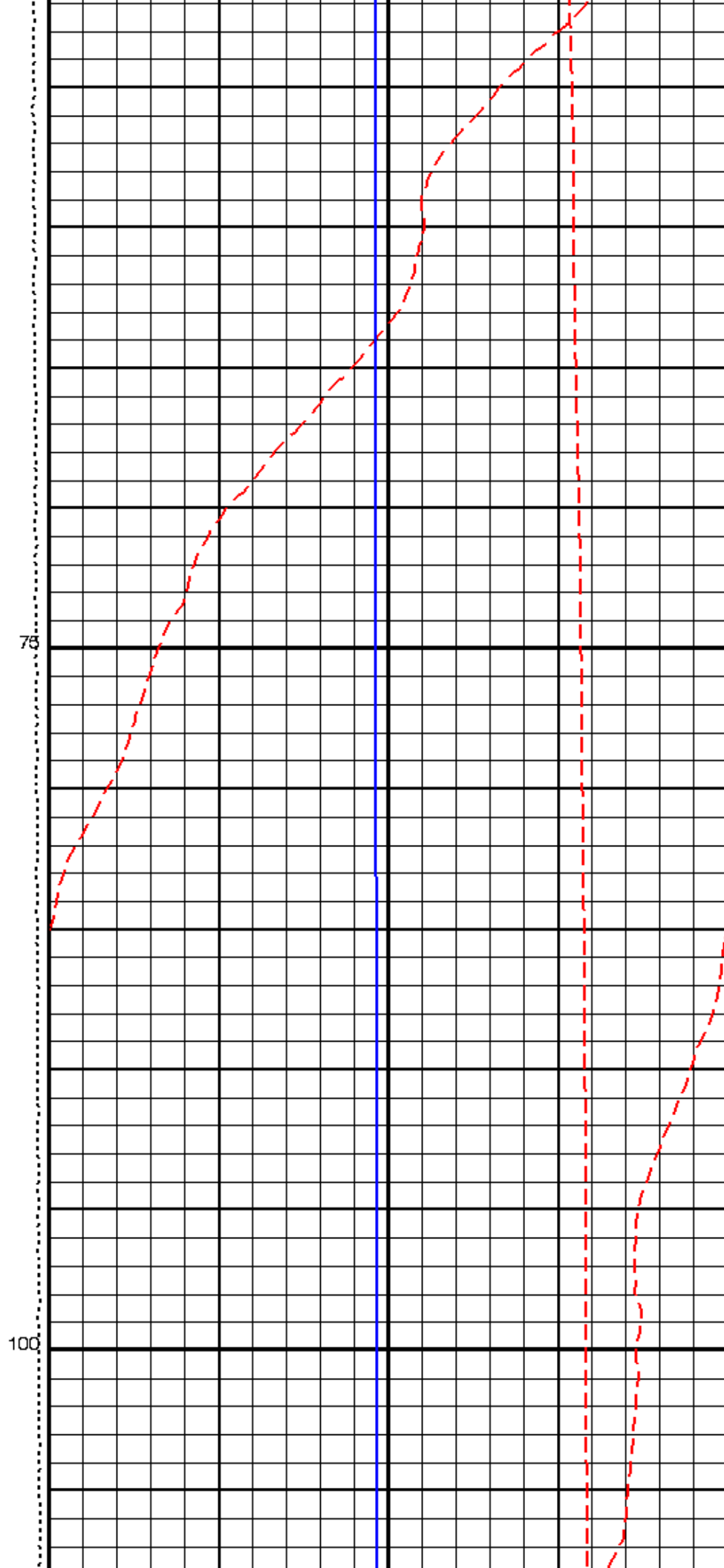
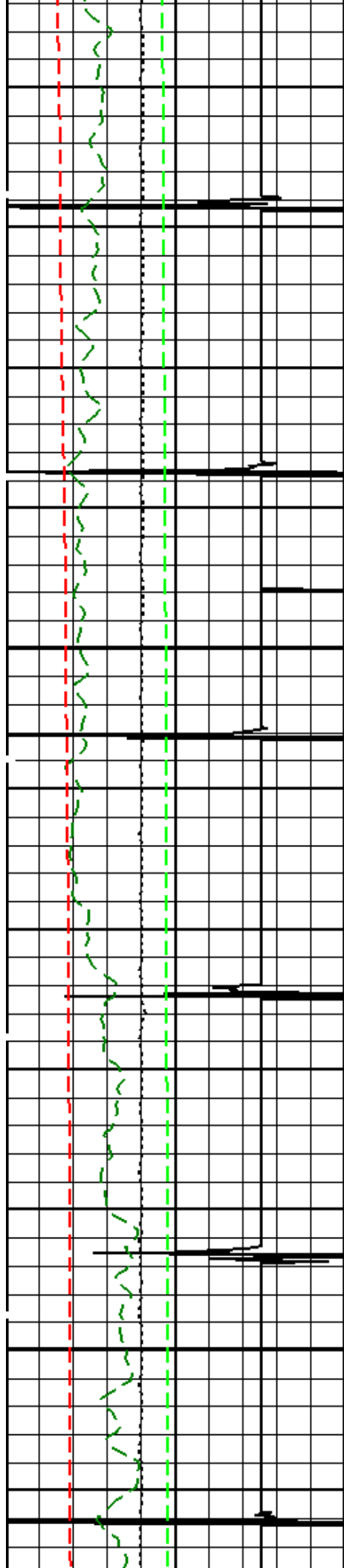
HBMS-B                    19C2-270

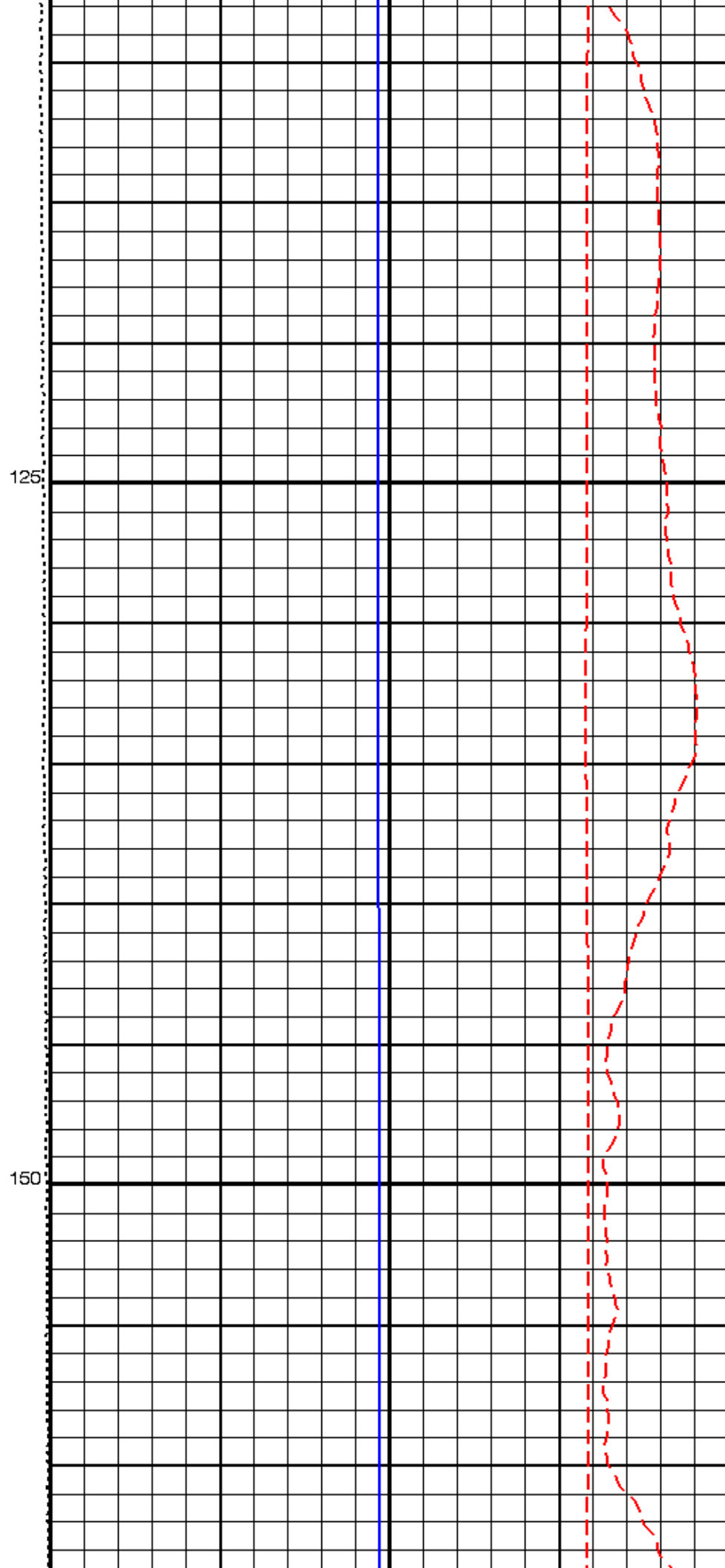
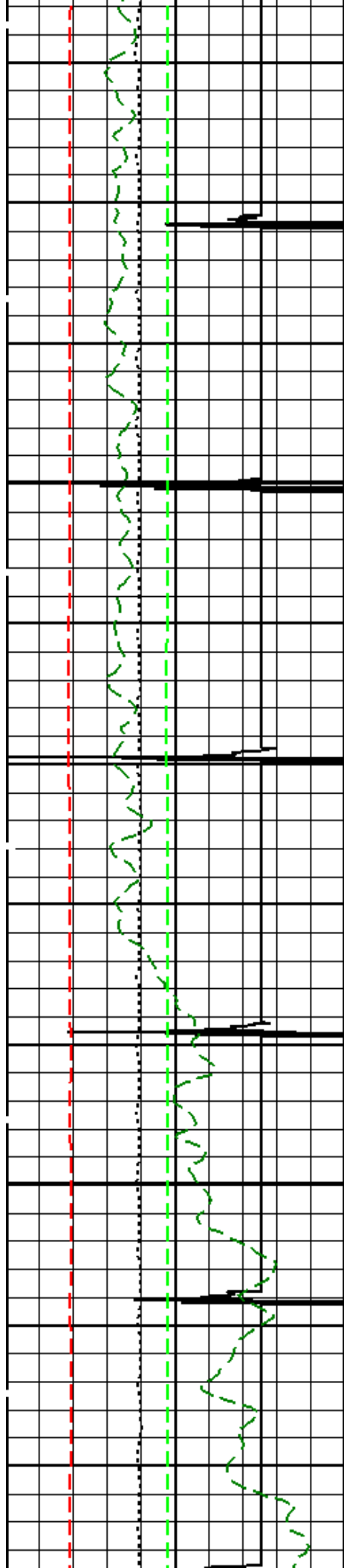
PIP SUMMARY

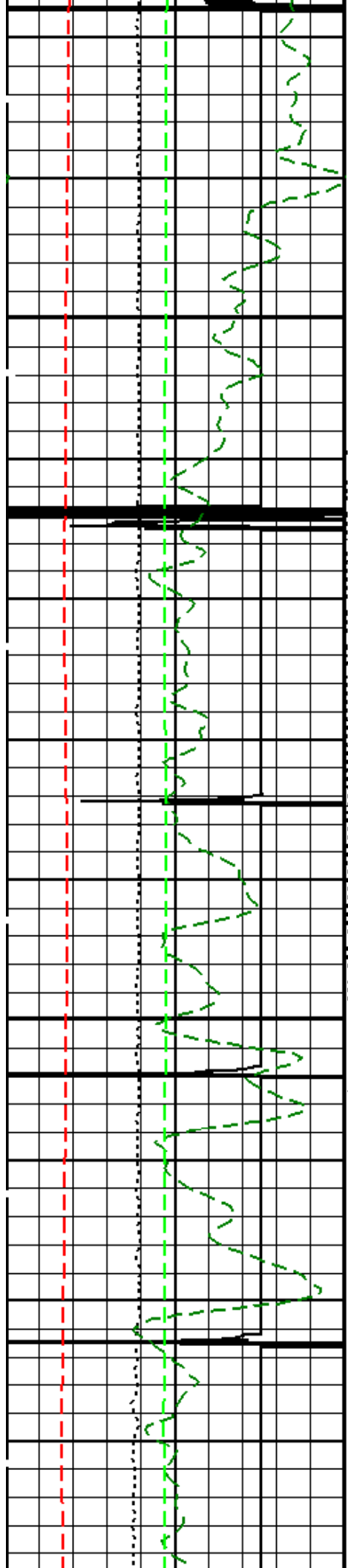
Time Mark Every 60 S





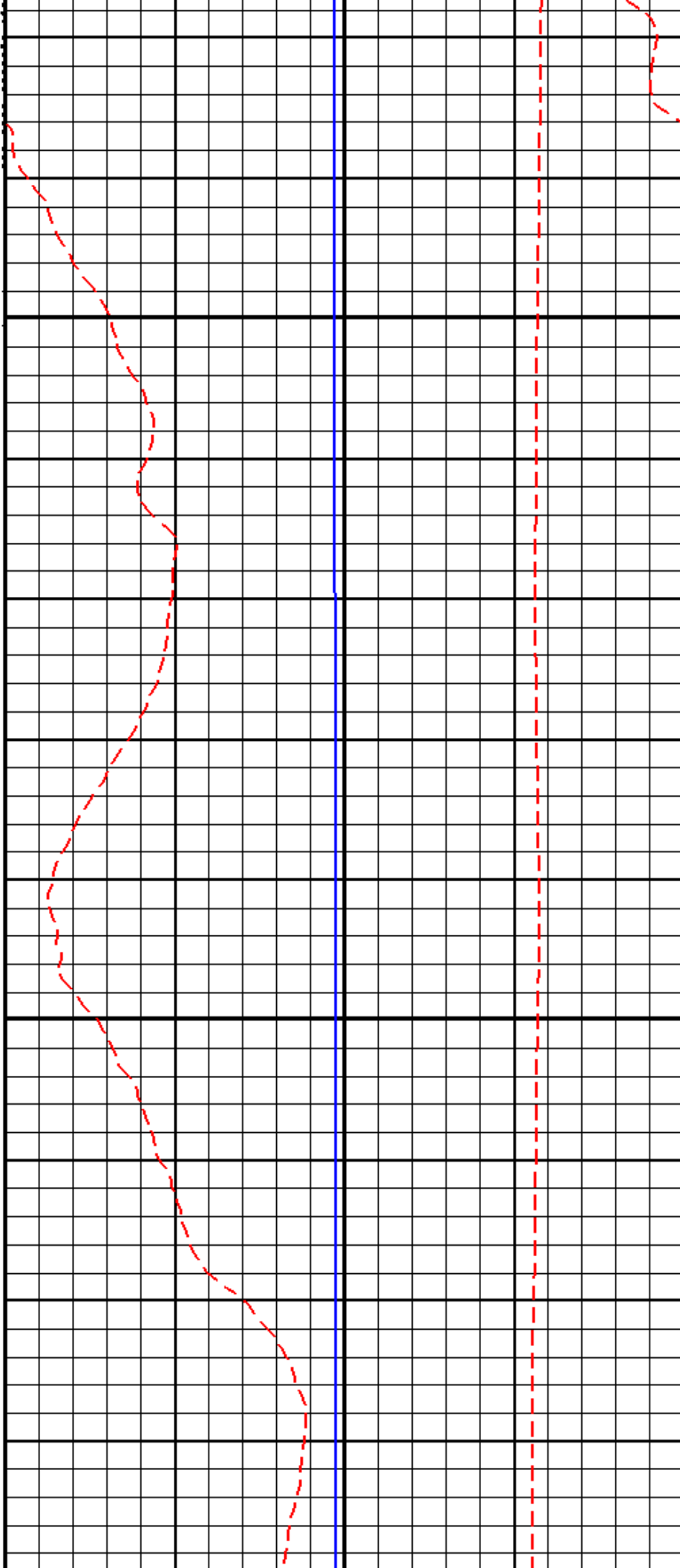


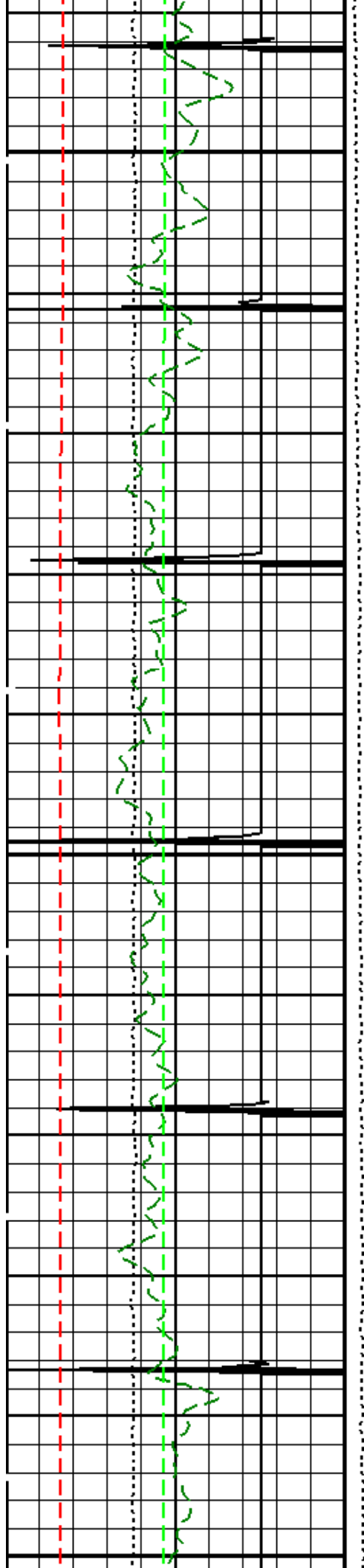




175

200

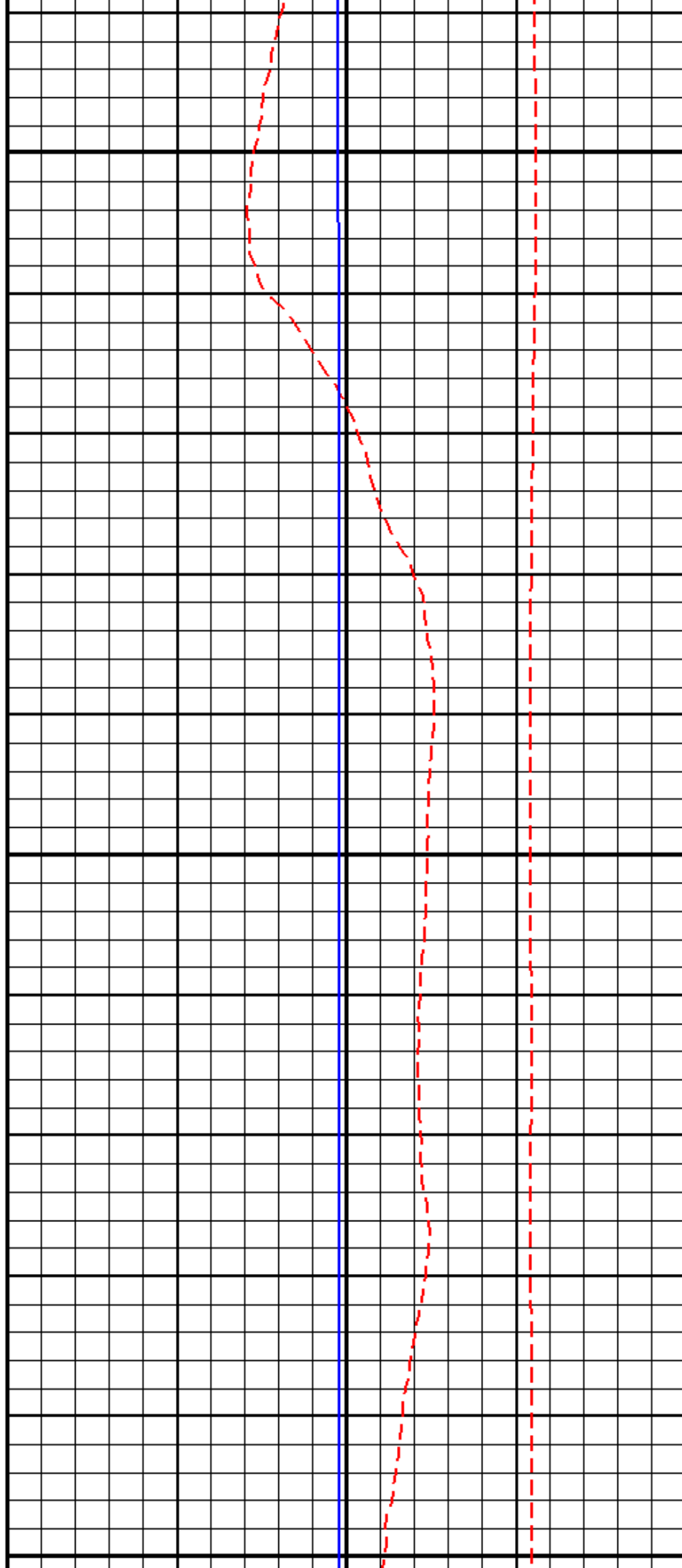


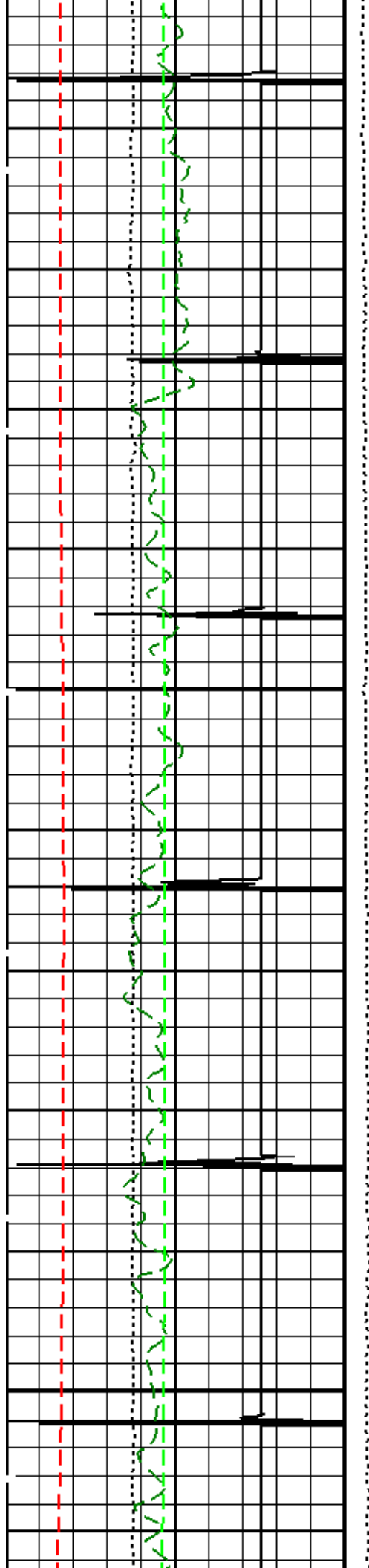


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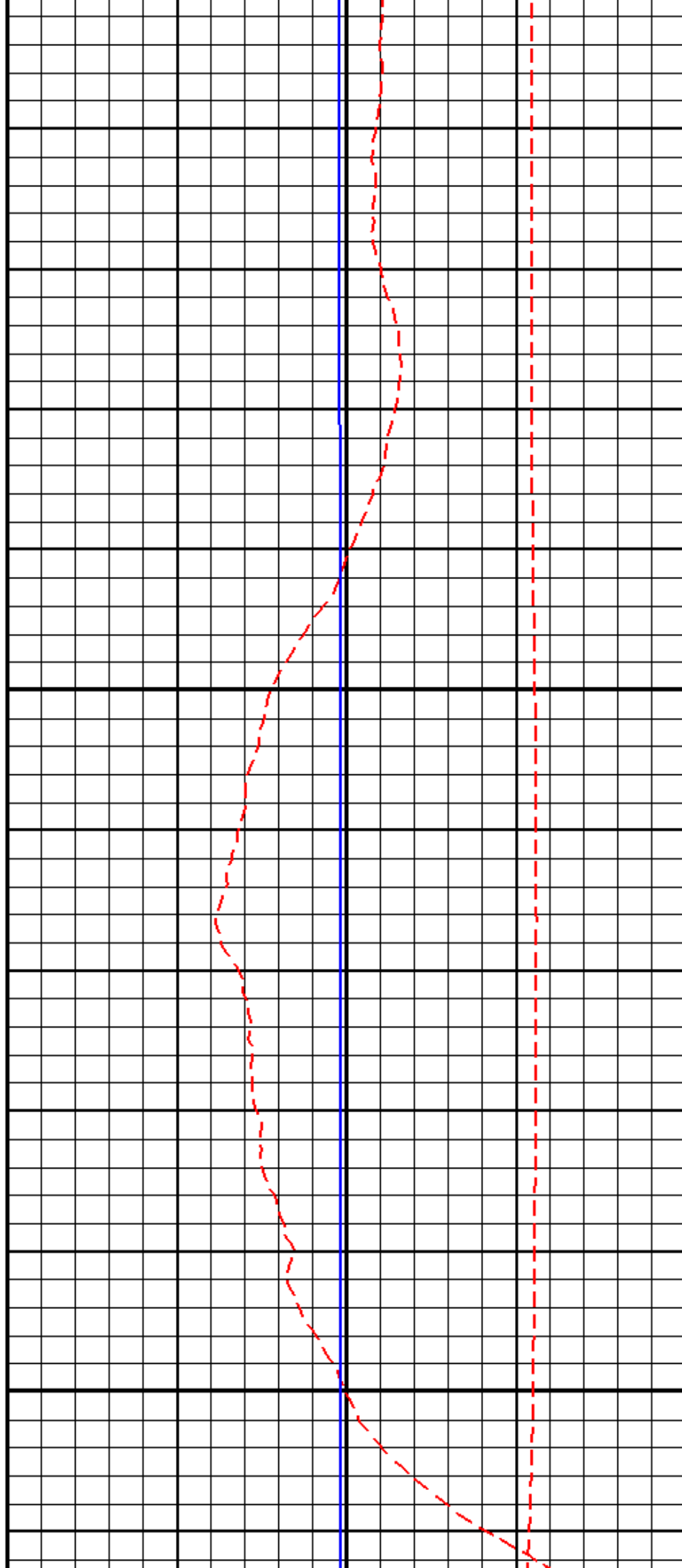
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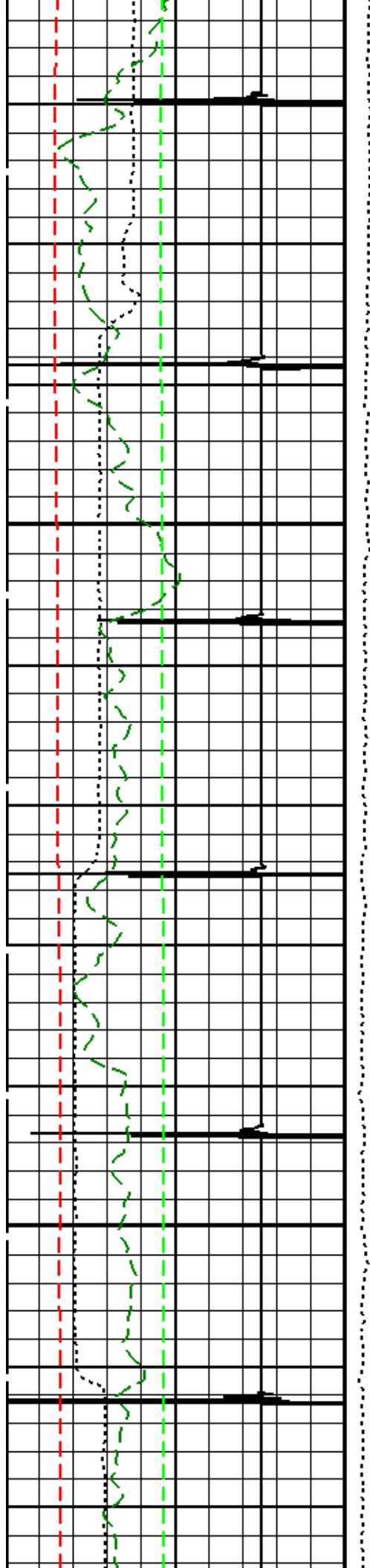




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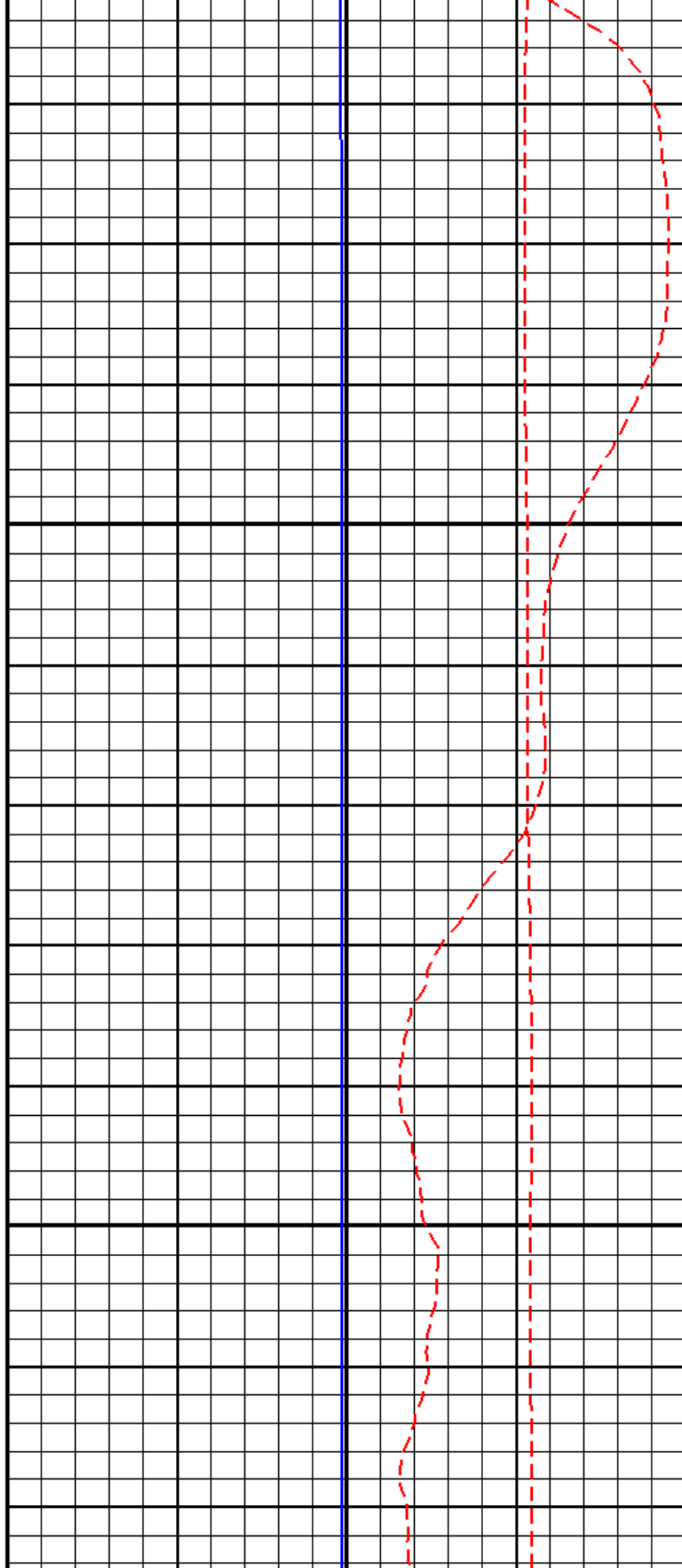
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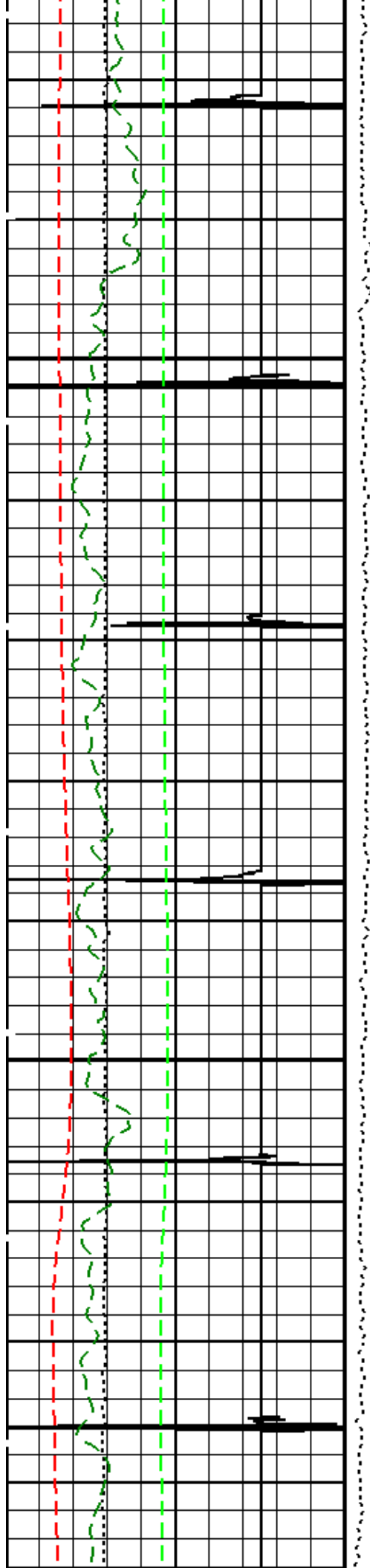


350

375

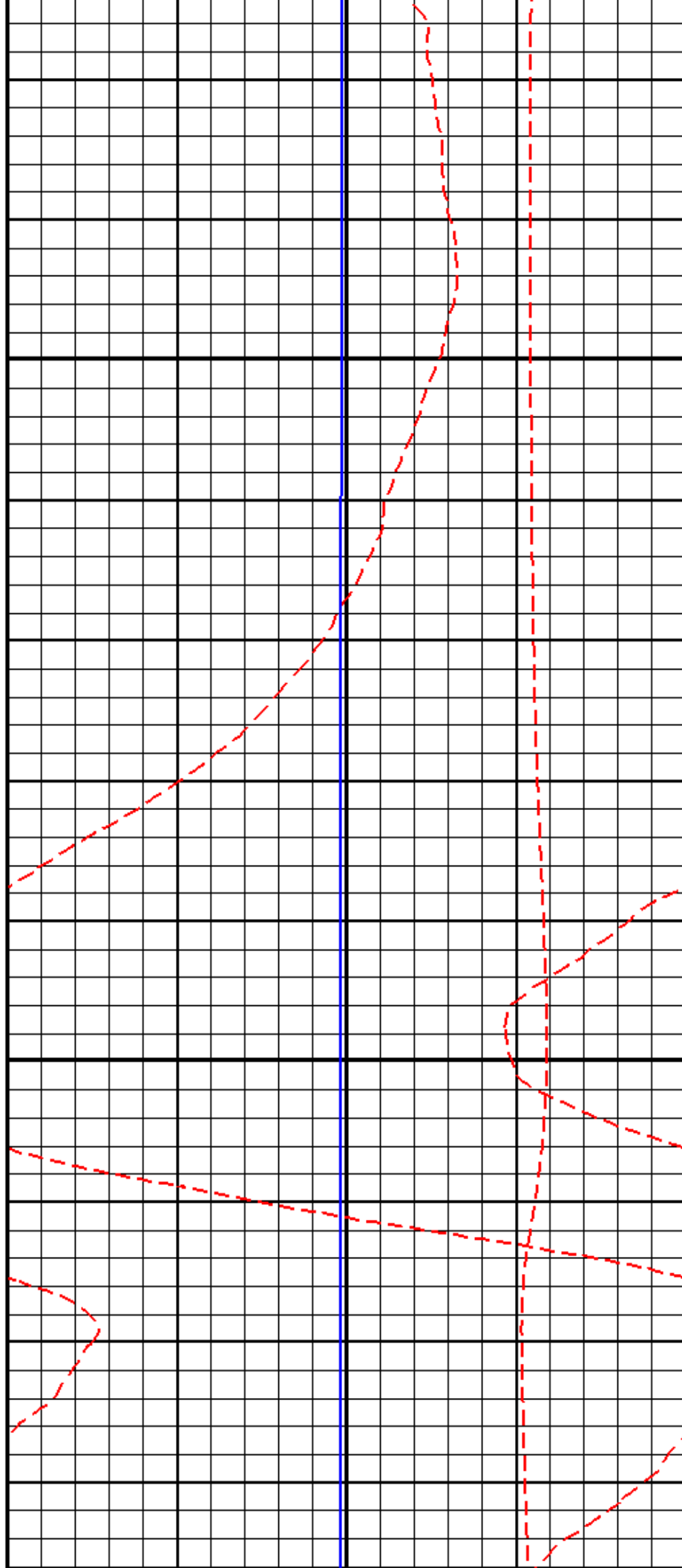


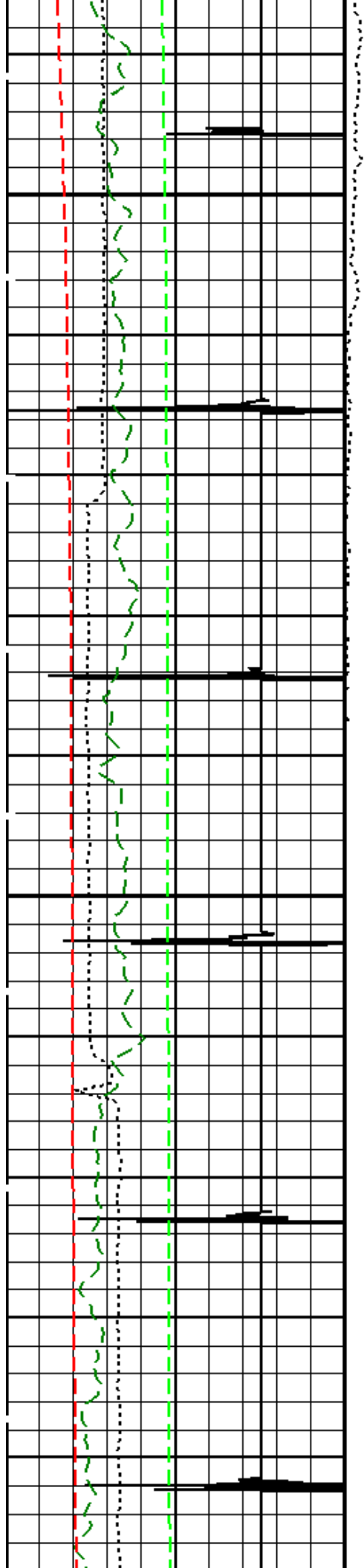




400

425

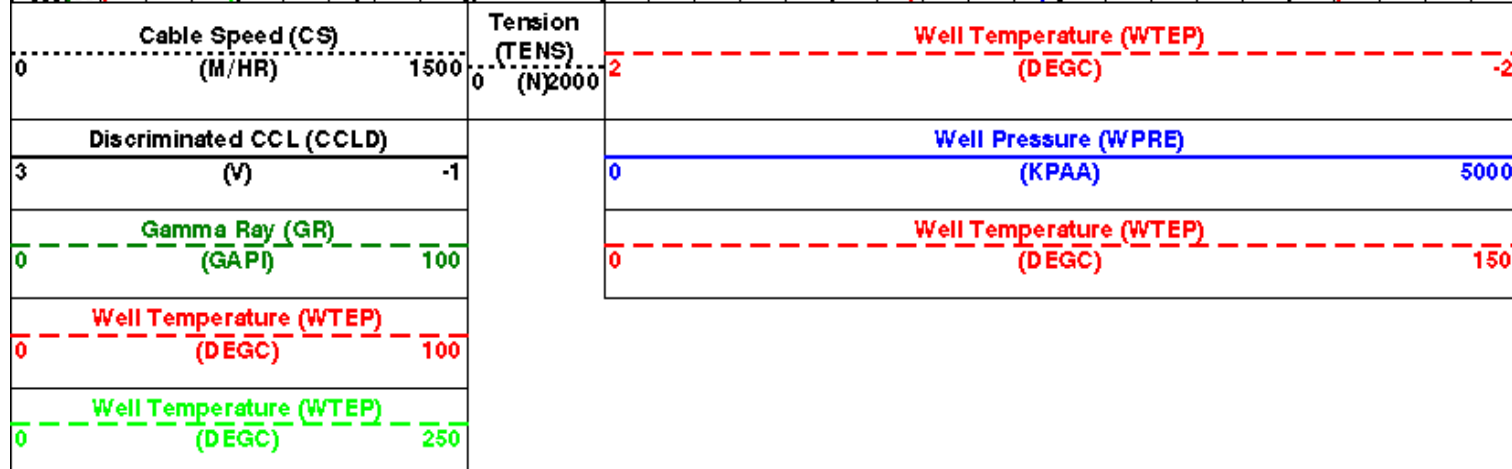
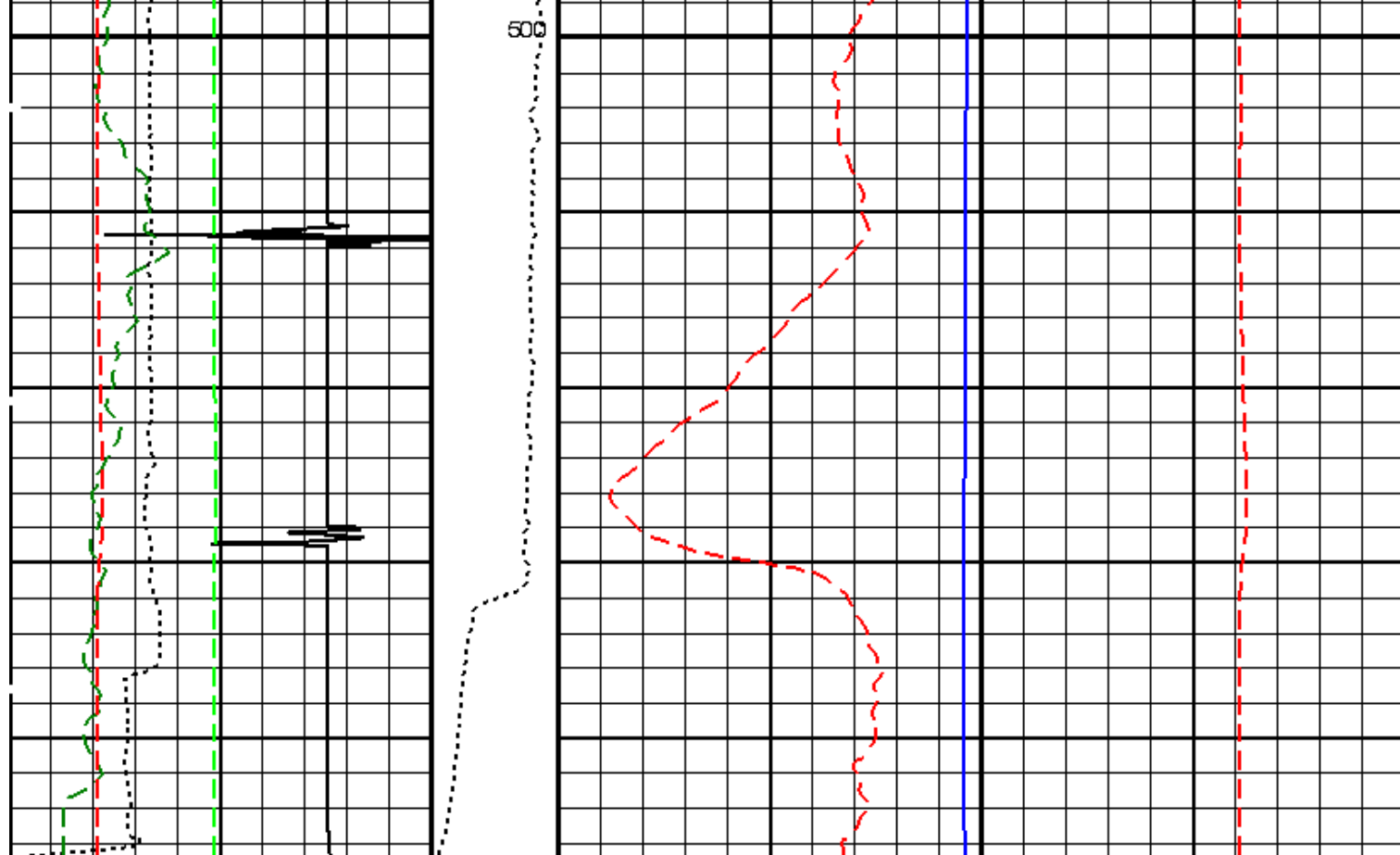




450

475





#### PIP SUMMARY

Time Mark Every 60 S

Format: PSP\_1 Vertical Scale: 1:200

Graphics File Created: 14-Jul-2017 15:47

OP System Version: 19C2-270

HBMS-B 19C2-270

#### Output DLIS Files

DEFAULT HBMS\_011LUP FN:7 PRODUCER 14-Jul-2017 15:47

Company: IMPERIAL OIL RESOURCES LIMITED

**Schlumberger**

Well: IMP07 H62-H01 COLD LK 2-20-66-4

Field: LEMING

County: ALBERTA

State: \*\*MD\*\*

## TEMPERATURE LOG