



Company: **IMPERIAL OIL RESOURCES**

Well: **IMP 12 N03-03 COLD LK 13-25-66-3**

Field: **LEMING**

Province: **AB**

\*\*\*MD\*\*\*

**TEMPERATURE LOG**  
**TEMPERATURE / GAMMA RAY / CCL**

Province: AB

Field: LEMING

Location: LSD: 12-25-066-03

Well: IMP 12 N03-03 COLD LK 13-25

Company: IMPERIAL OIL RESOURCES

LOCATION

LSD: 12-25-066-03

UWI: 100132506603W400

Elev.: K.B. 647.00 m

G.L. 641.80 m

D.F.

Permanent Datum: \_\_\_\_\_

GROUND LEVEL \_\_\_\_\_

Elev.: 641.80 m \_\_\_\_\_

Log Measured From: KELLY BUSHING

5.20 m above Perm. Datum

Drilling Measured From: KELLY BUSHING

API Serial No.

0446147

Section

12-25

Township

066

Range

3W4

	Run 1	Run 2	Run 3
PVT DATA			
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
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 Date28-Dec-2016

Run Number1

Depth Driller684 m

Schlumberger Depth679 m

Bottom Log Interval679 m

Top Log Interval4 m

Casing Fluid TypeFLUID

Salinity

Density

Fluid Level25 m

BIT/CASING/TUBING STRING

Bit Size222.000 mm

From4 m

To684 m

Casing/Tubing Size73.000 mm

Weight9.67 kg/m

GradeL-80

From4 m

To676.17 m

Maximum Recorded Temperatures136 degC

Logger On Bottom14-Dec-2014

Time8:00

Unit Number222

LocationLLOYDMINSTER

Recorded ByTYRONE FERREIRA

Witnessed ByDENNIS STRANG

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: 28-DEC-2016 14:23:07

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	2-23ZT
Serial Number:	6365	Serial Number:	2812	Serial Number:	709113
Calibration Date:	19-MAR-2015	Calibration Date:	27-DEC-2016	Length:	2500 M
Calibrator Serial Number:	4	Calibrator Serial Number:	6195118	Conveyance Method:	Wireline
Calibration Cable Type:	7-32P-XS	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-5	Calibration RMS:	15		
Wheel Correction 2:	-4	Calibration Peak Error:	31		

## Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	NO CORRELATION LOG PROVIDED
Reference Log Run Number:	1
Reference Log Date:	NO CORRELATION LOG PROVIDED
Subsequent Trip Down Log Correction:	

### Depth Control Remarks

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

## DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
FLUID LEVEL DERIVED FROM LOG AT 25 MKB	
LAST FLUID MOVEMENT: 26-DEC-2016	
MAX TEMP 136 DEGC AT 672 MKB	
ENGAGED TRACTOR AT 455 MKB	

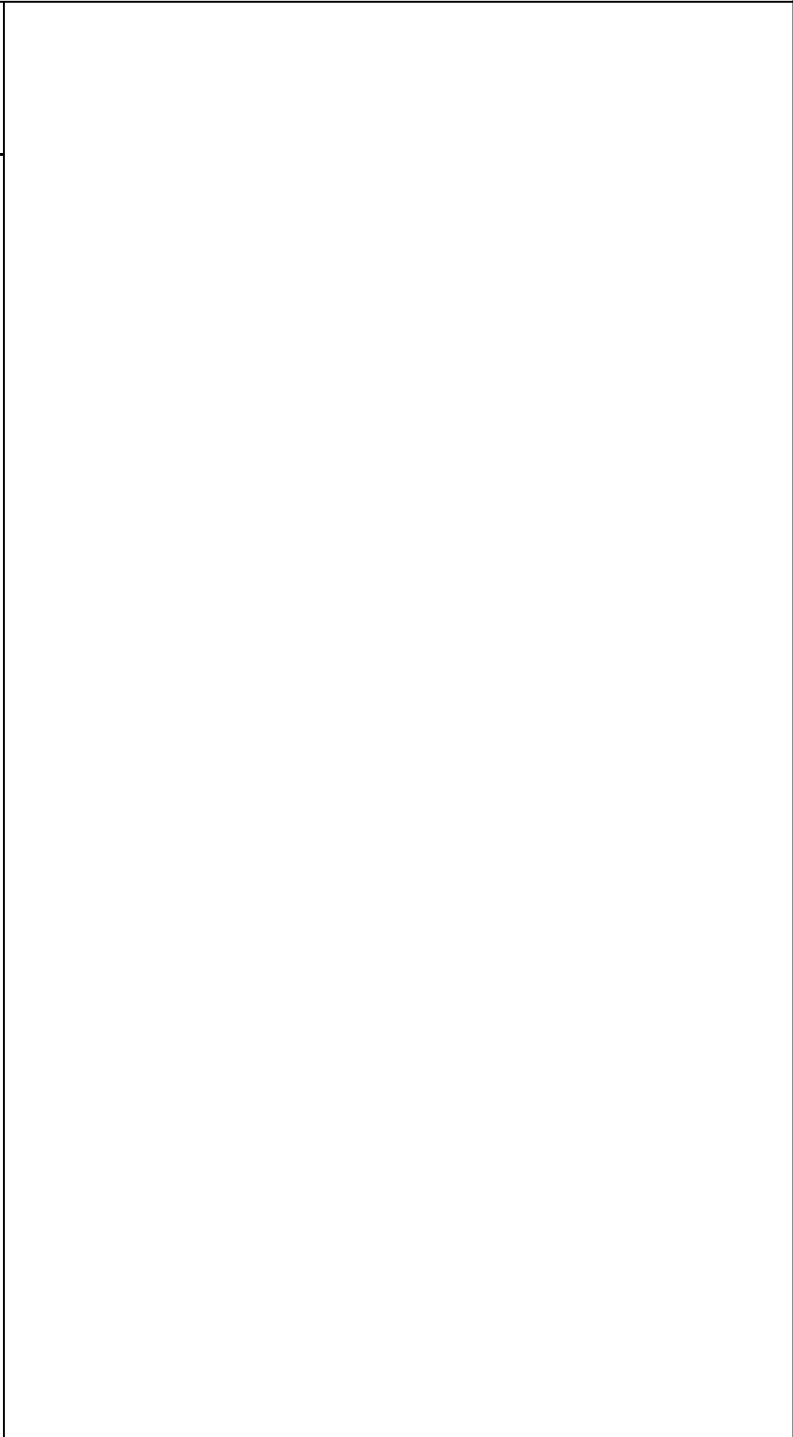
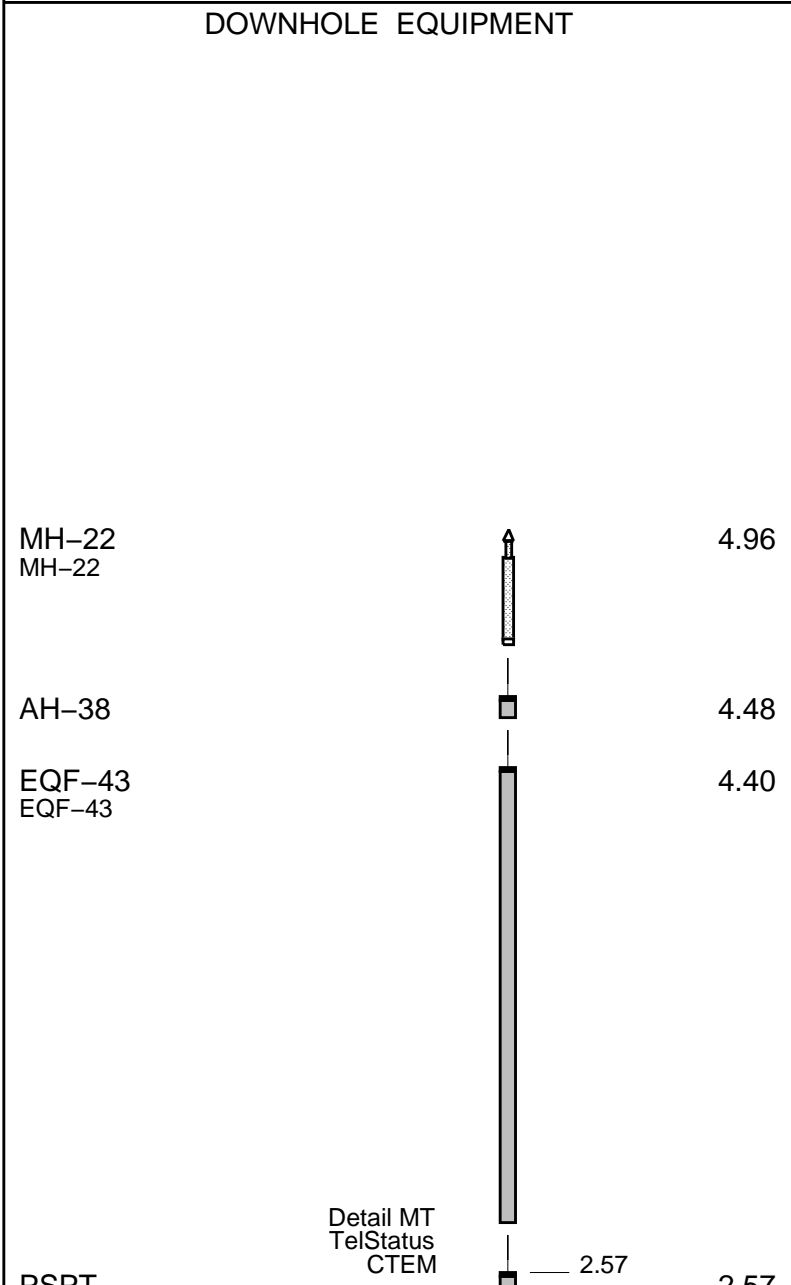
CWT AT 626.40 MKB	
BURST NIPPLE TOP AT 649.24 MKB	
PSN TOP AT 676.17	
SITP:1950 KPA	
SICP: 2000 KPA	
YOUR CREW TODAY WAS: T.FERREIRA, C.LLANO	
THANK YOU FOR CHOOSING SCHLUMBERGER	

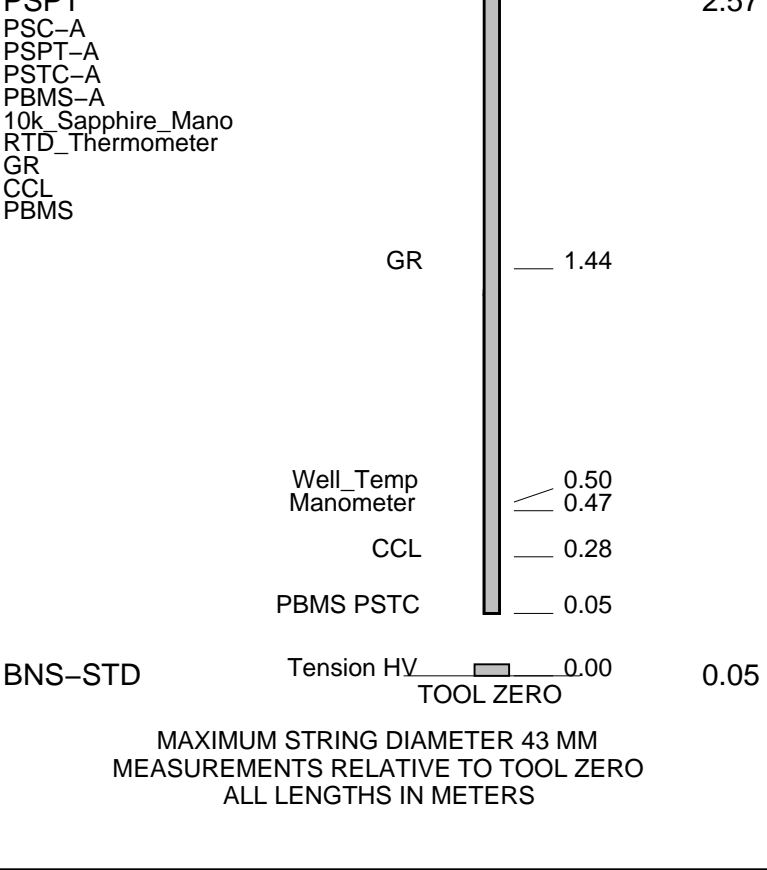
RUN 1			RUN 2		
SERVICE ORDER #:		DKMS-00010	SERVICE ORDER #:		
PROGRAM VERSION:		19C2-270	PROGRAM VERSION:		
FLUID LEVEL:		25 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT

WITM-A  
PSC\_16MHZ





DOWN PASS  
10 M/MIN

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES Well: IMP 12 N03-03 COLD LK 13-25-66-

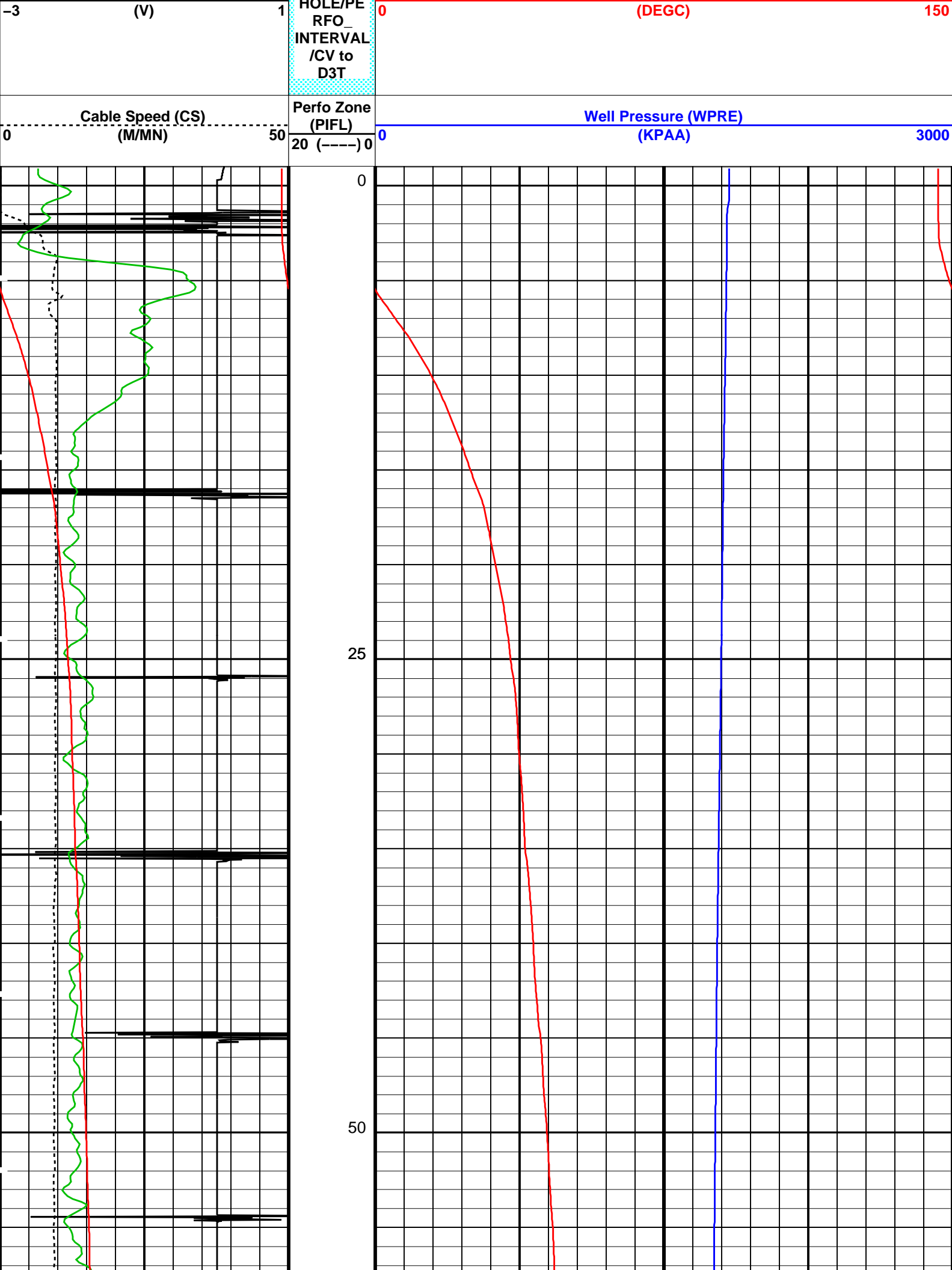
Input DLIS Files					
DEFAULT	Flip_PSP_004LUP	PRODUCER	28-Dec-2016 13:11	459.6 M	0.3 M
Output DLIS Files					
DEFAULT	PSP_014PUP	FN:12 PRODUCER	28-Dec-2016 15:42	458.3 M	-1.1 M

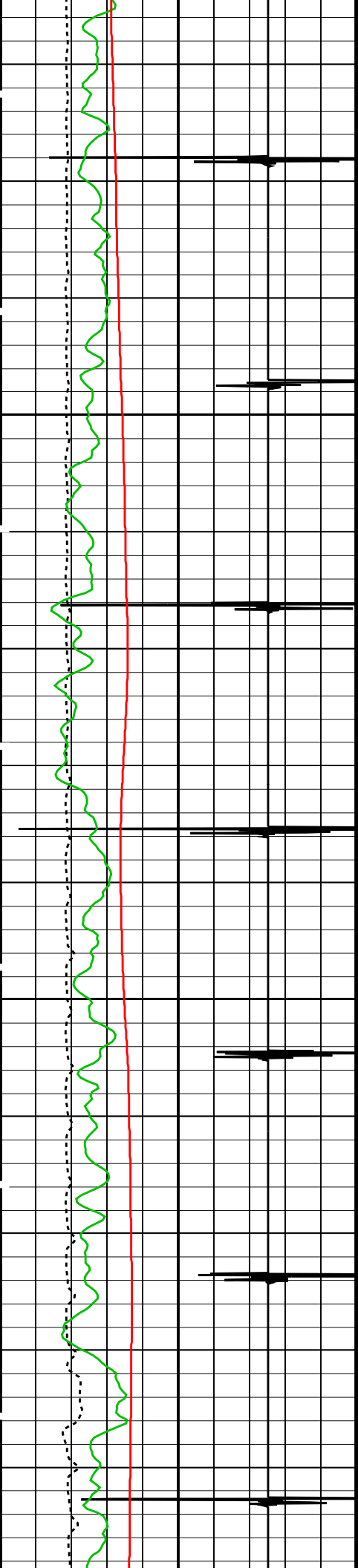
OP System Version: 19C2-270	
PSPT	19C2-270

PIP SUMMARY	
Time Mark Every 60 S	

Well Temperature (WTEP) 0 (DEGC) 150	
Gamma Ray (GR) 0 (GAPI) 100	

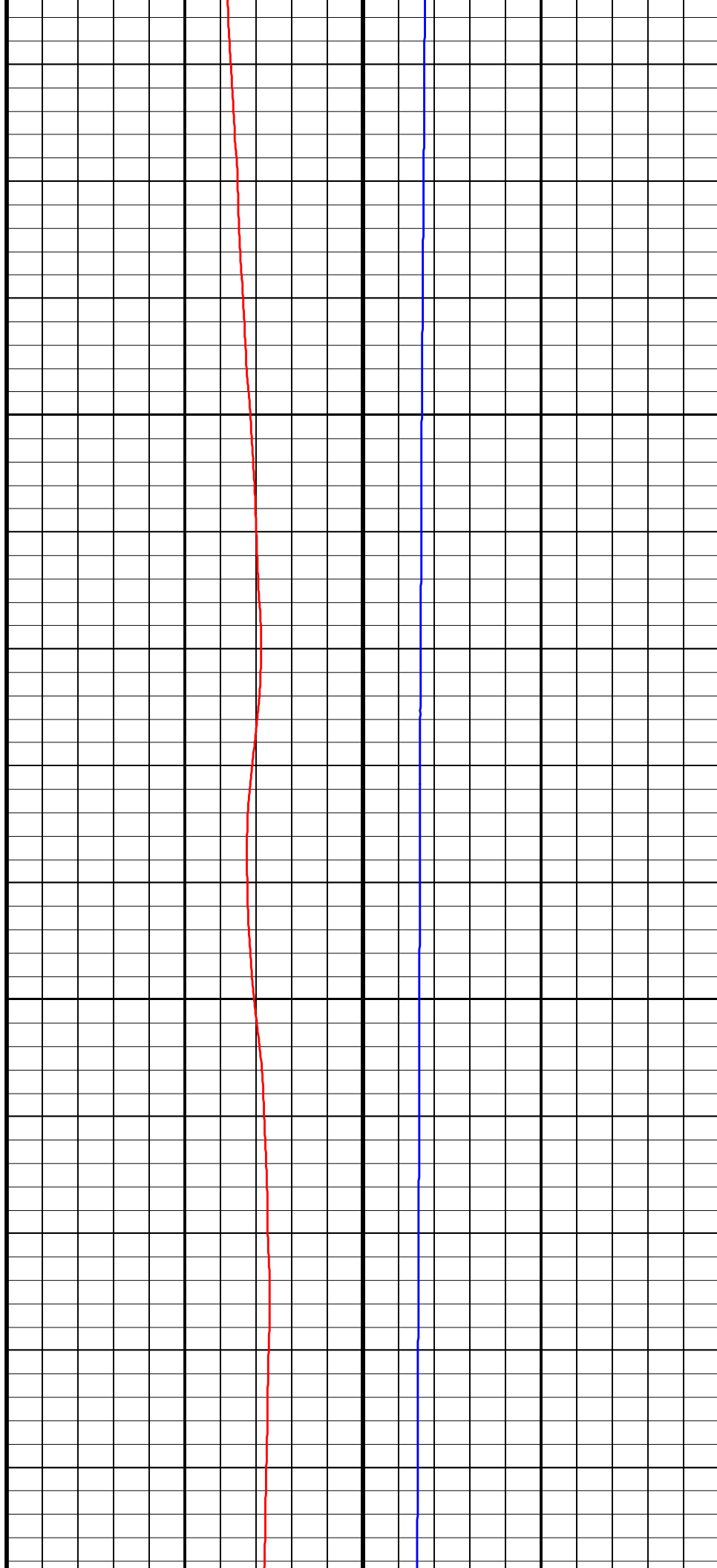
Discriminated CCL (CCLD)	Perfo Zone From Cased Hole	Well Temperature (WTEP)
--------------------------	----------------------------	-------------------------

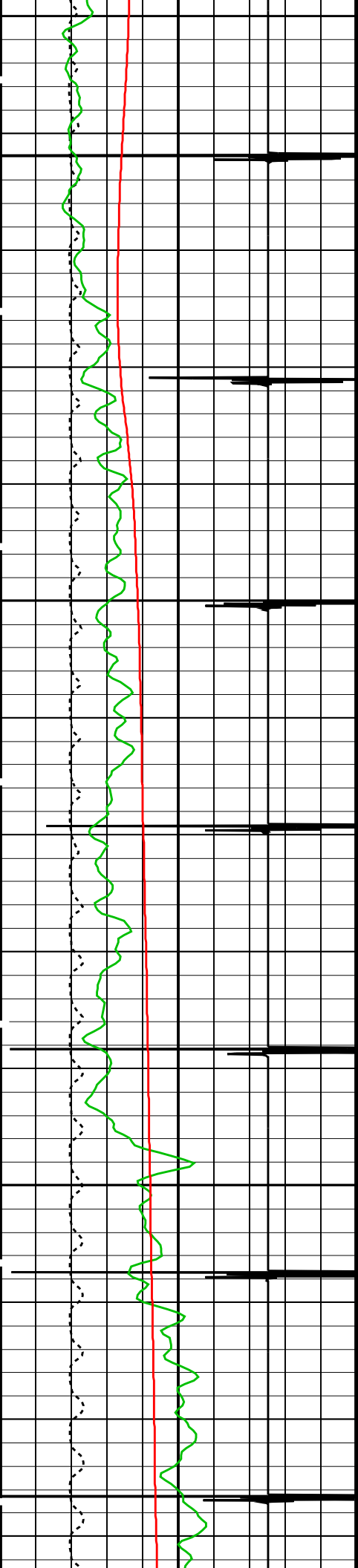




75

100

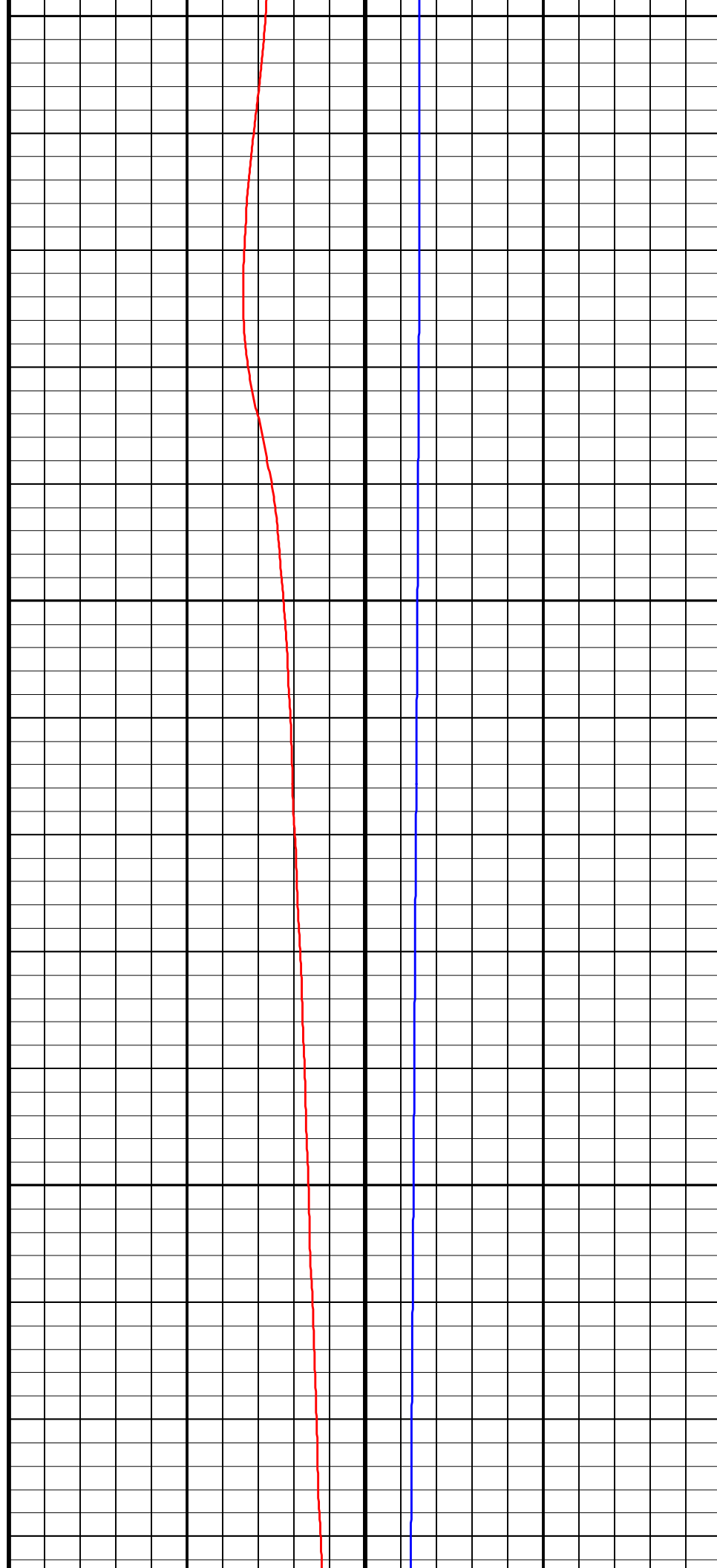


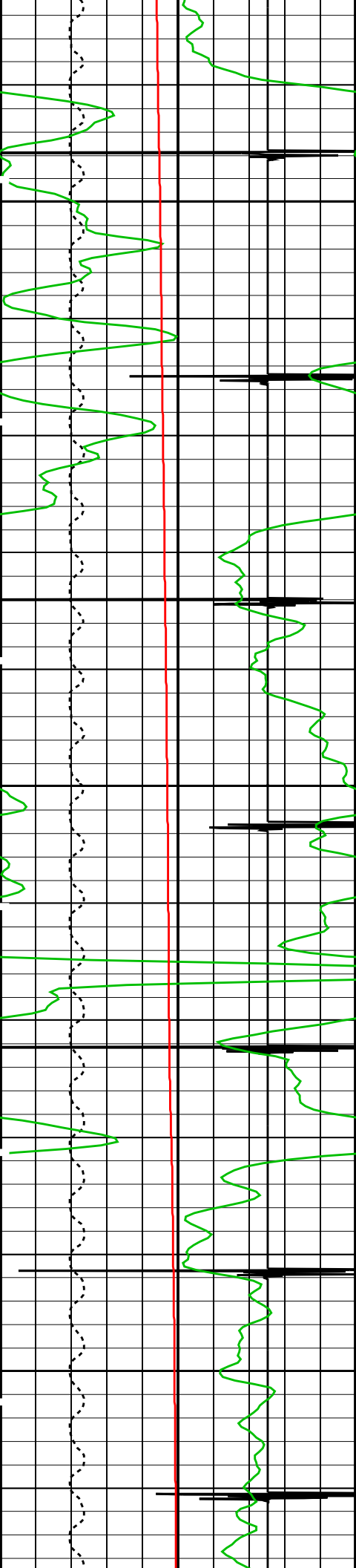


125

150

175

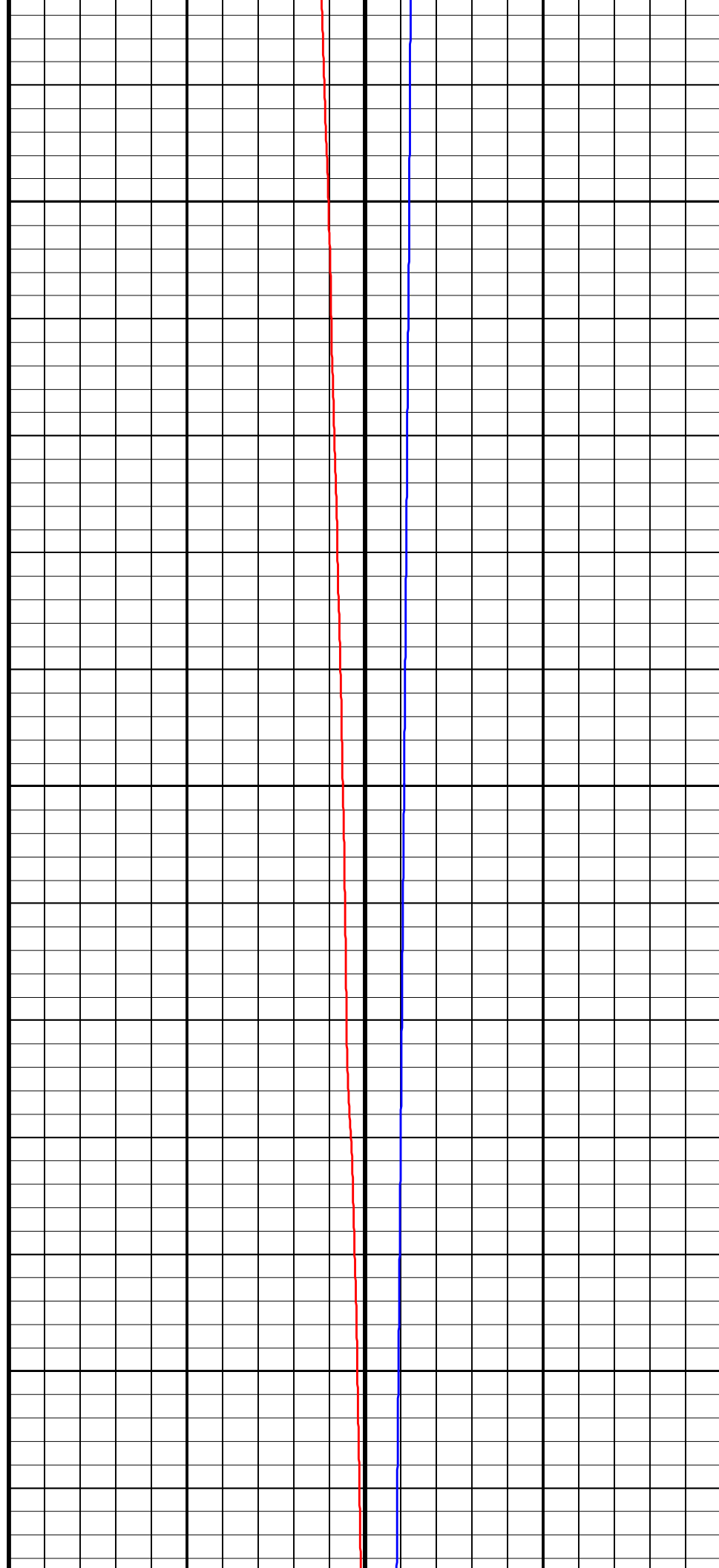




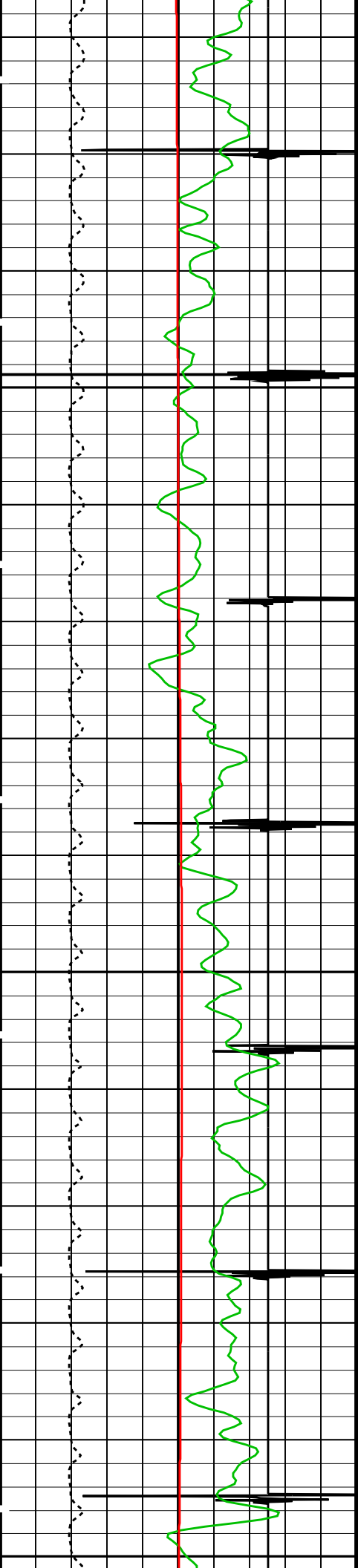
200

225

250



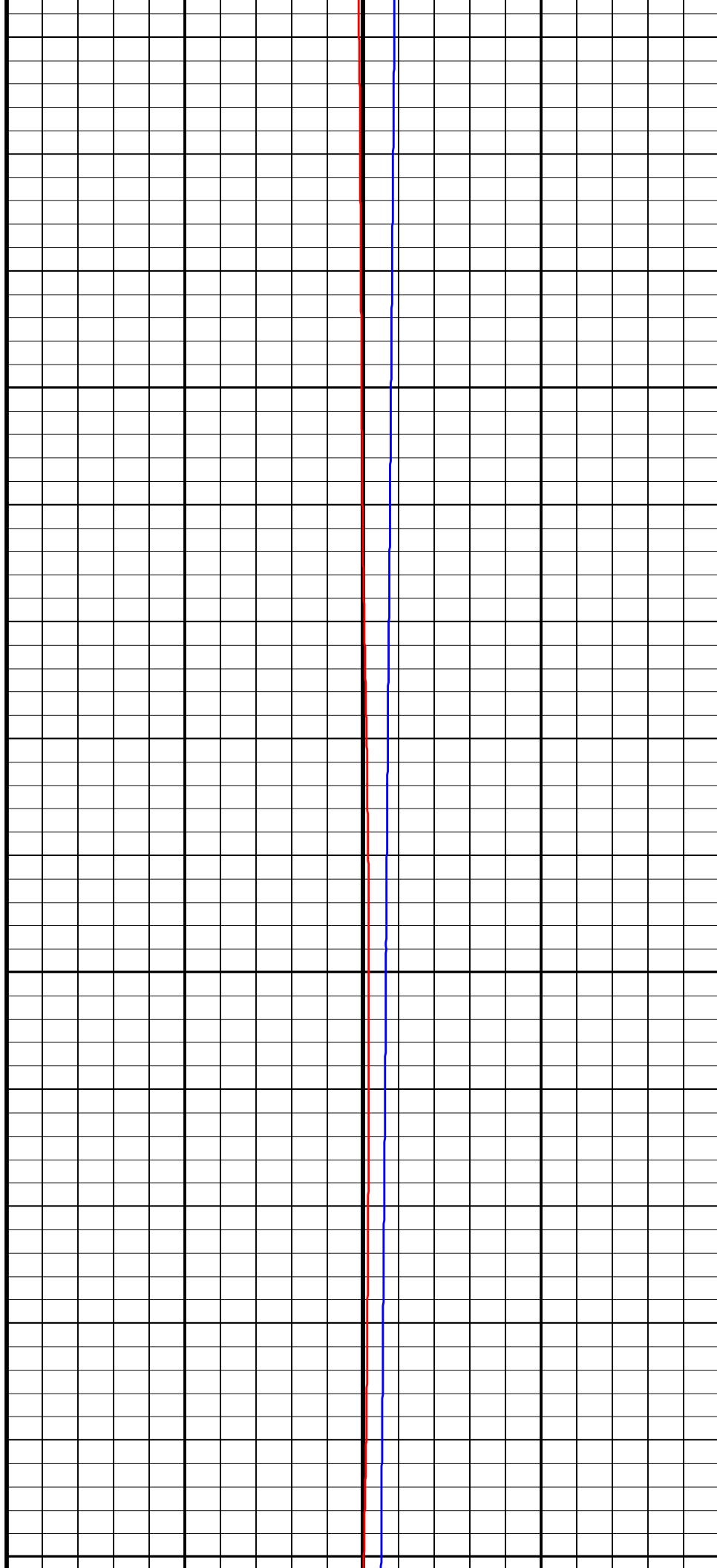


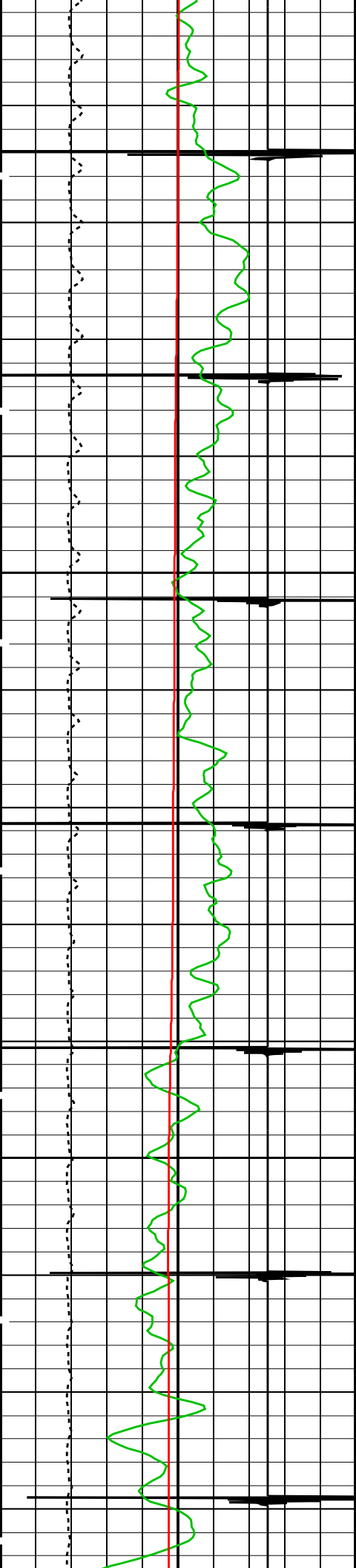


275

300

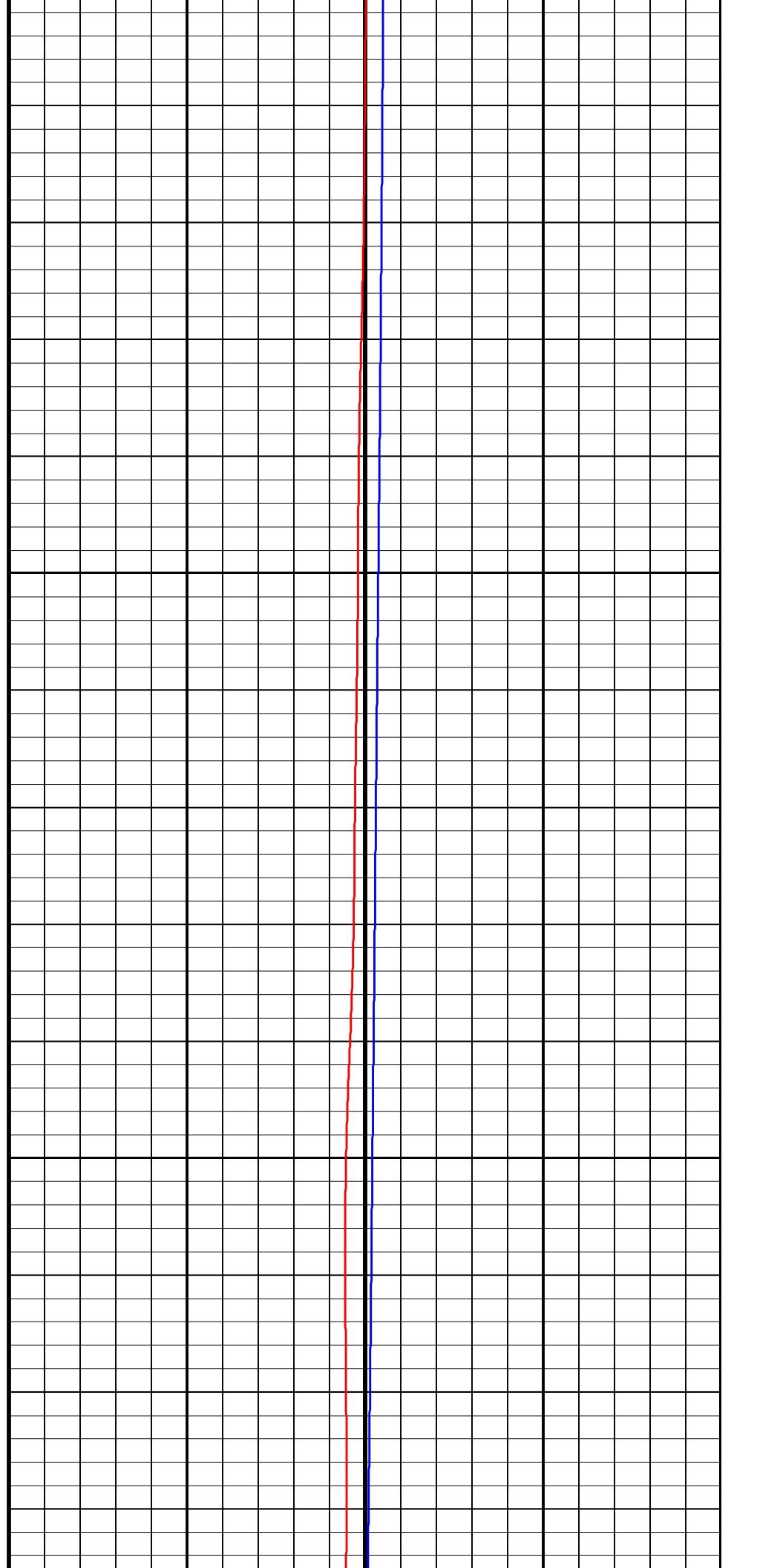
325

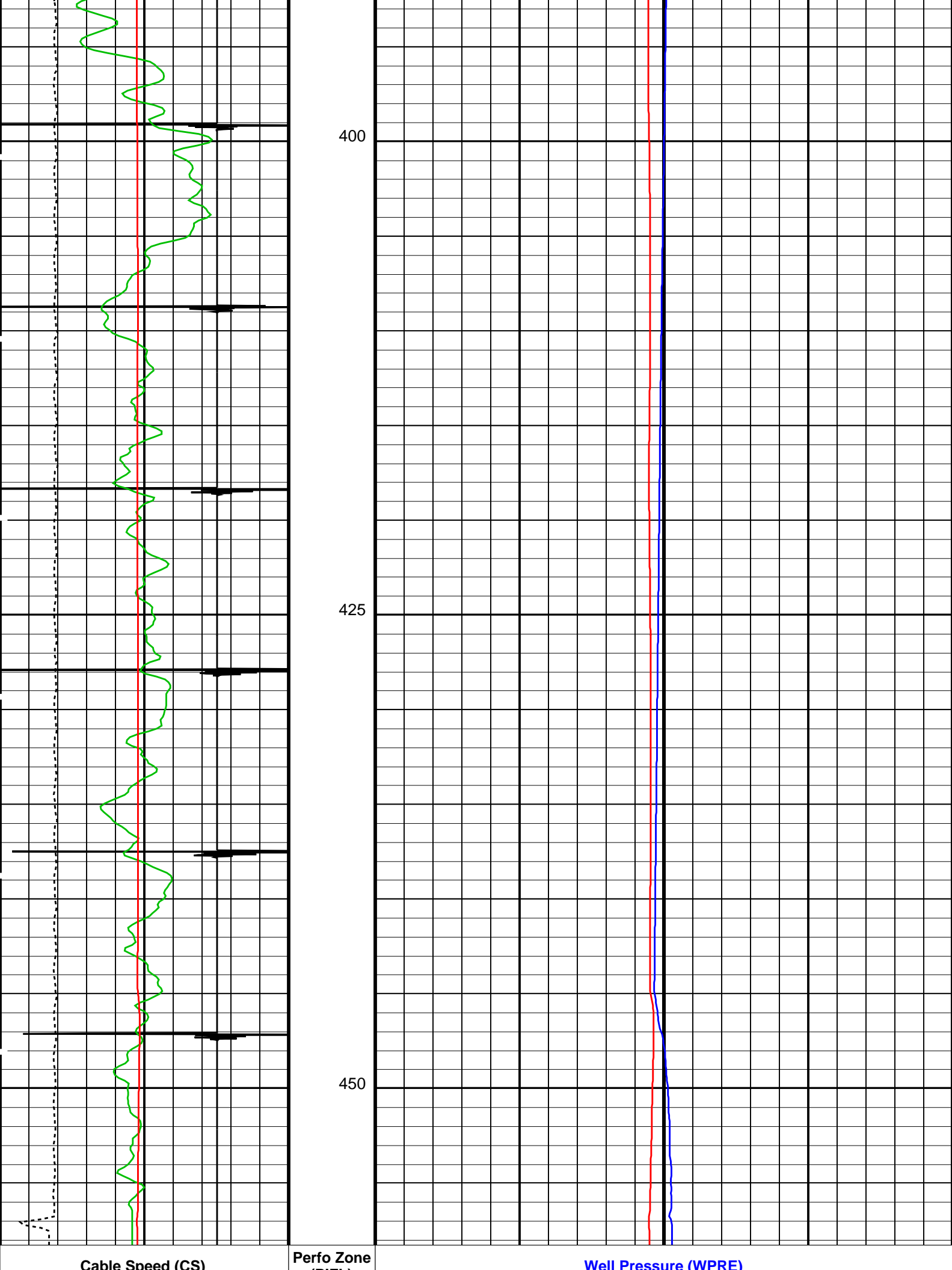




350

375





0	(M/MN)	50	(PIFL)	0	(KPA)	3000
			20 (----) 0			
			Perfo Zone From CASED_ HOLE/PE RFO_ INTERVAL /CV to D3T			
	Discriminated CCL (CCLD)				Well Temperature (WTEP)	
-3	(V)	1		0	(DEGC)	150
	Gamma Ray (GR)					
0	(GAPI)	100				
	Well Temperature (WTEP)					
0	(DEGC)	150				

PIP SUMMARY

**Time Mark Every 60 S**

Parameters		
DLIS Name	Description	Value
System and Miscellaneous		
DO	Depth Offset for Playback	-1.3 M
PP	Playback Processing	NORMAL

Format: PSP\_1      Vertical Scale: 1:240      Graphics File Created: 28-Dec-2016 15:42

**OP System Version: 19C2-270**

**PSPT** **19C2-270**

Input DLIS Files						
DEFAULT	Flip_PSP_004LUP	PRODUCER	28-Dec-2016 13:11	459.6 M	0.3 M	
Output DLIS Files						
DEFAULT	PSP_014PUP	FN:12	PRODUCER	28-Dec-2016 15:42		



**UP PASS**  
**10 M/MIN**

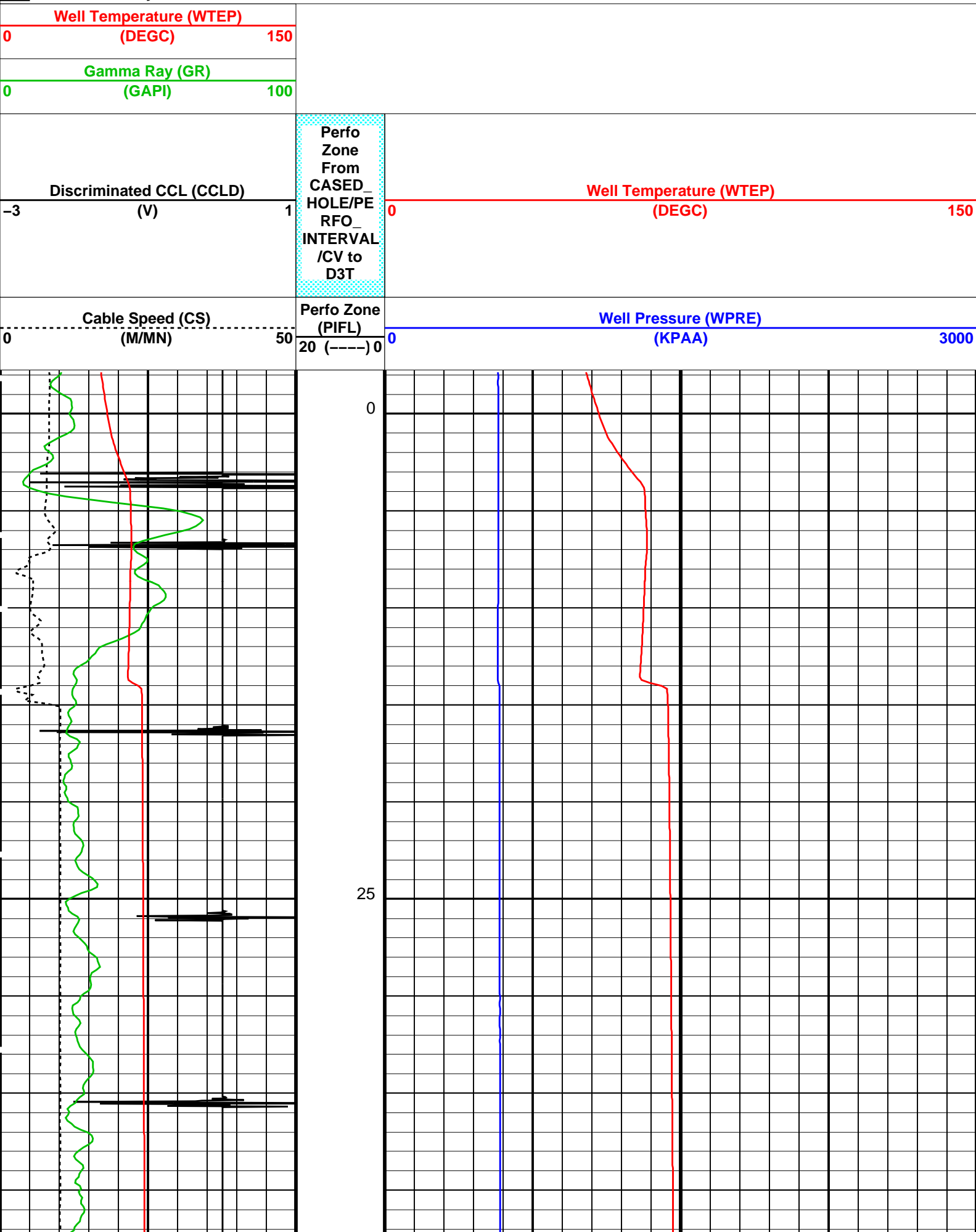
MAXIS Field Log

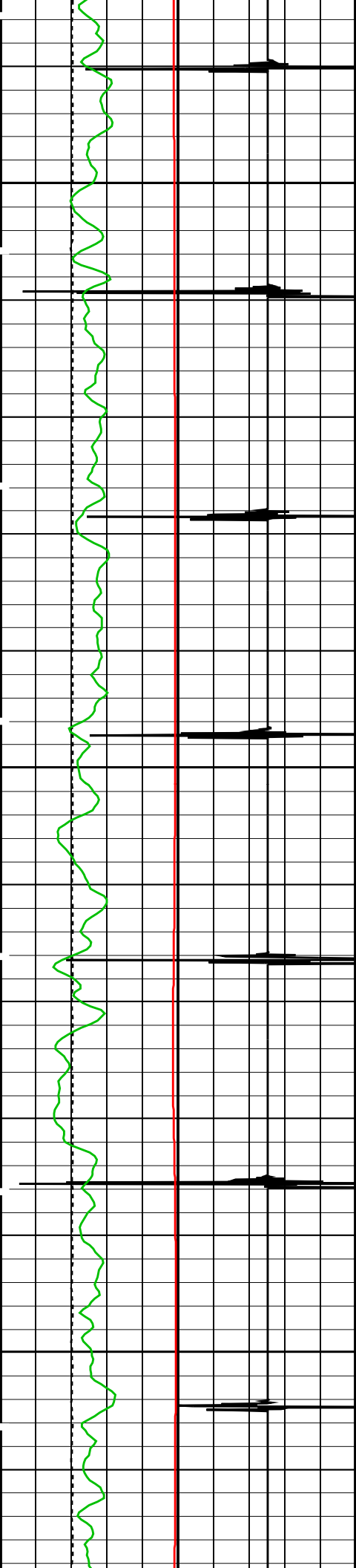
Company: IMPERIAL OIL RESOURCES Well: IMP 12 N03-03 COLD LK 13-25-66-

Input DLIS Files						
DEFAULT	PSP_007LUP	FN:5	PRODUCER	28-Dec-2016 13:58	681.8 M	-2.3 M
Output DLIS Files						
DEFAULT	PSP_013PUP	FN:11	PRODUCER	28-Dec-2016 15:40	681.8 M	-2.3 M

**OP System Version: 19C2-270**

**Time Mark Every 60 S**

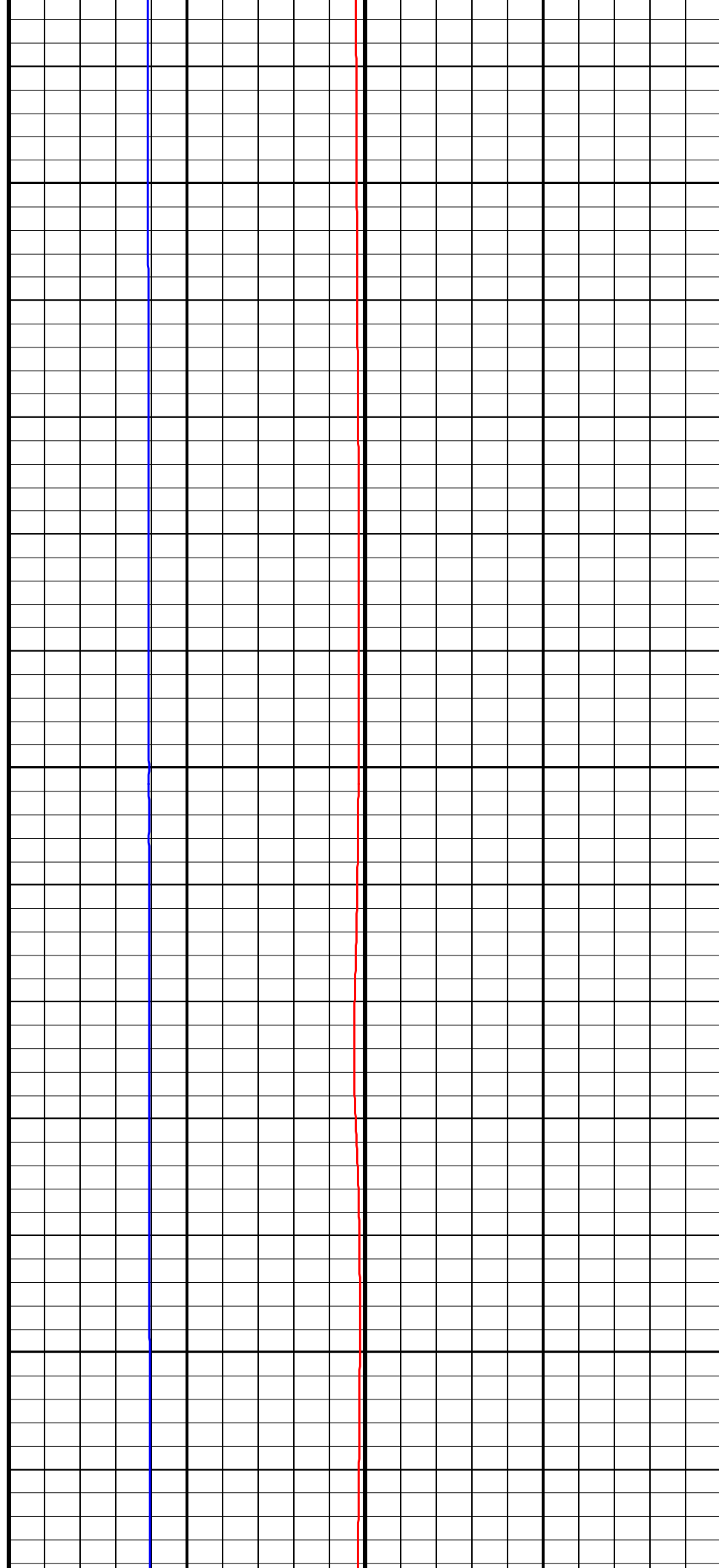


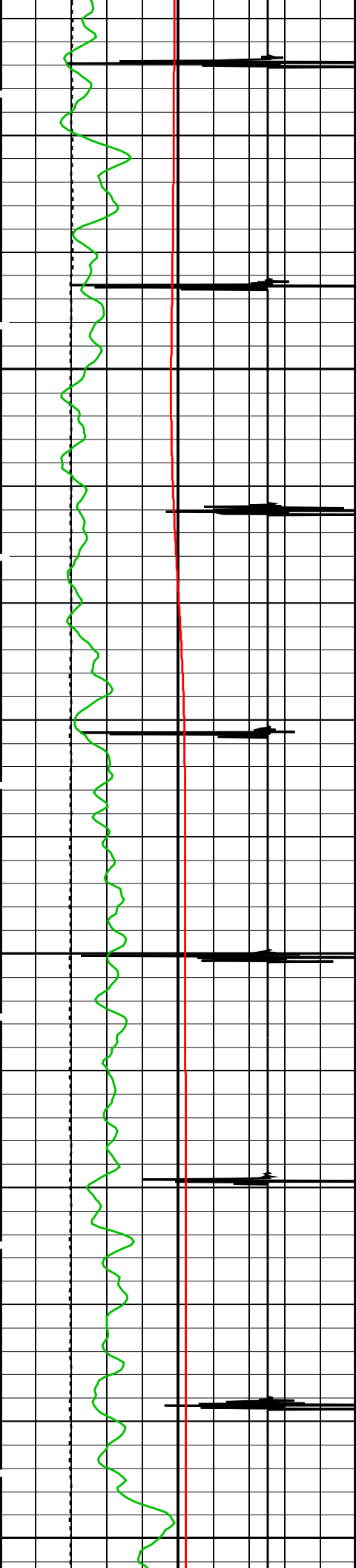


50

75

100

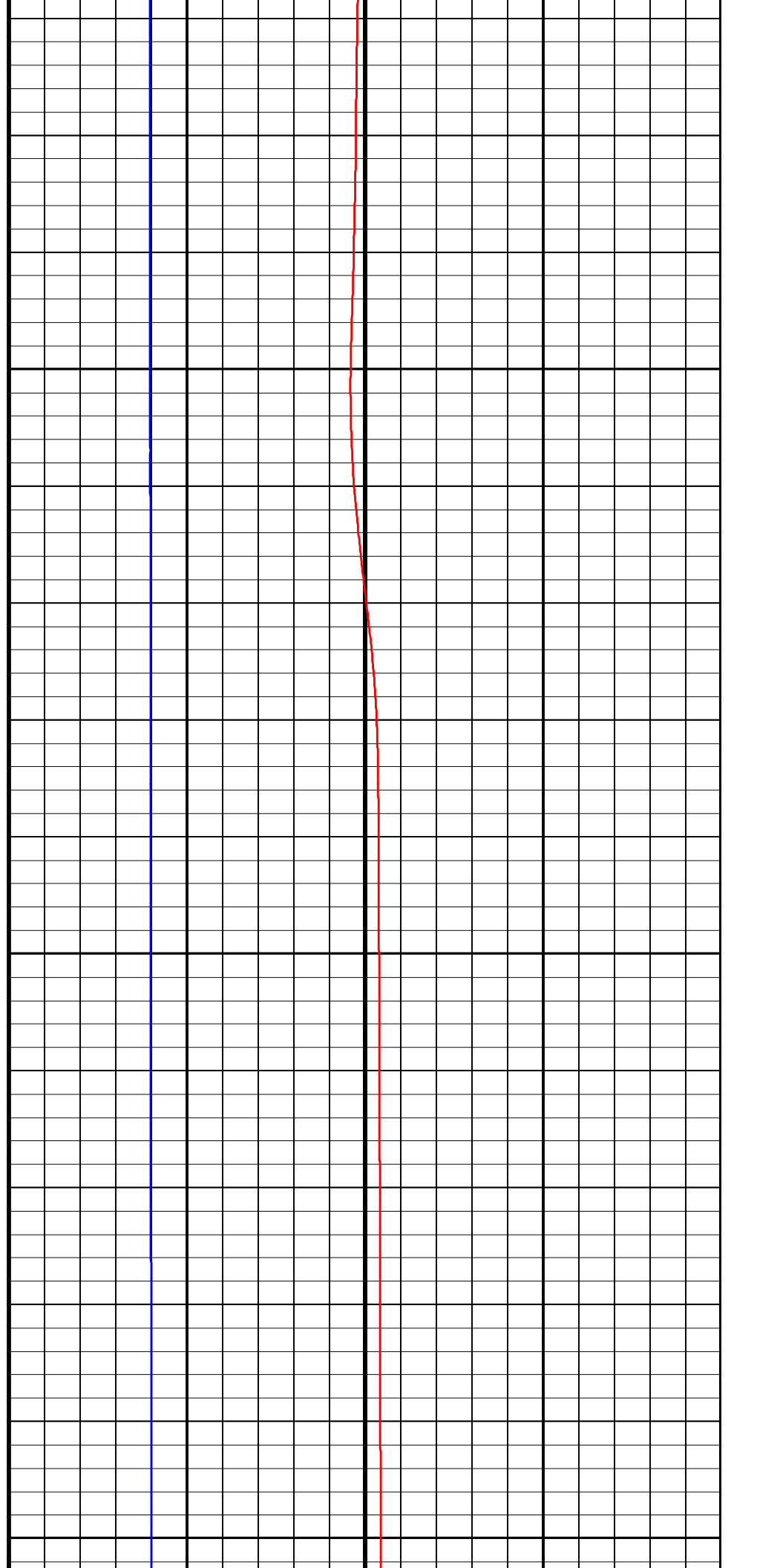




125

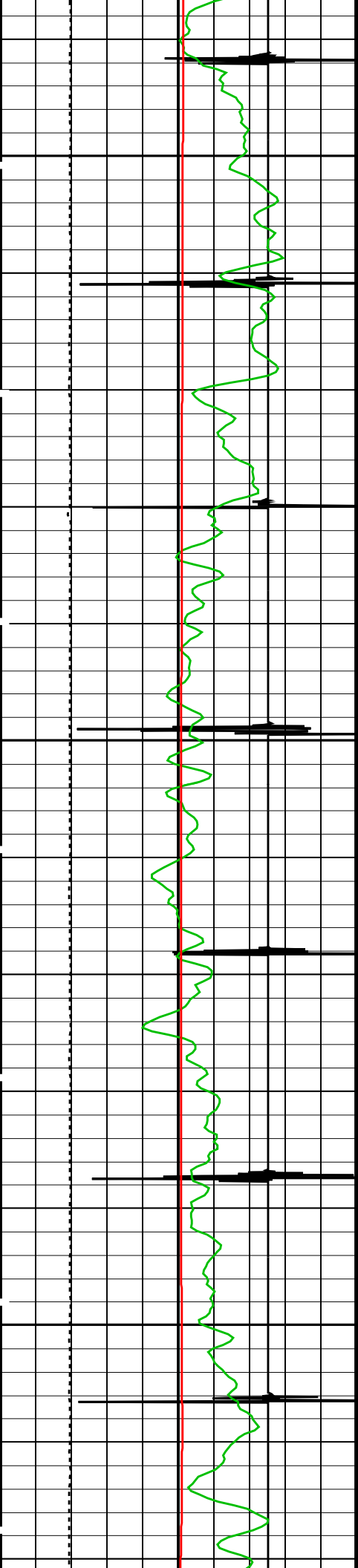
150

175





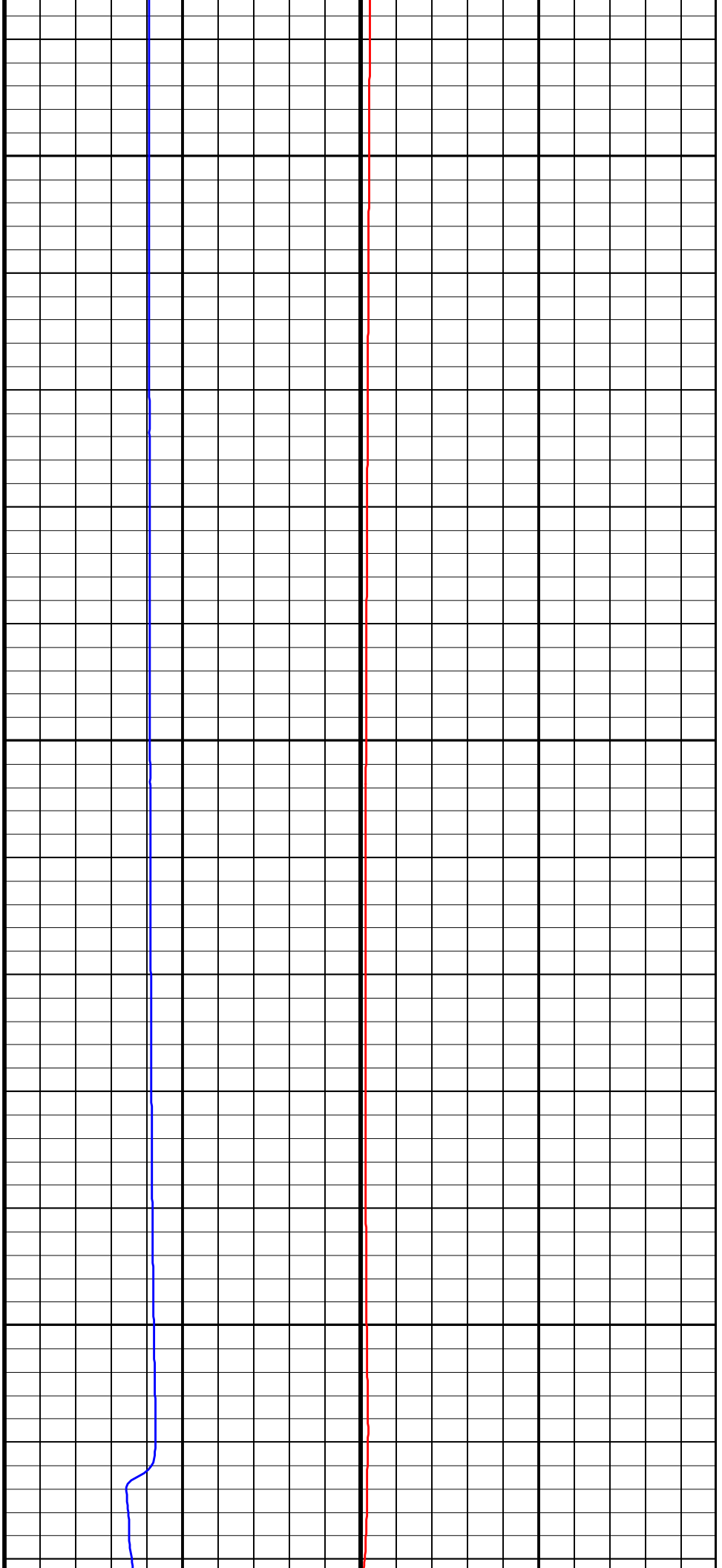


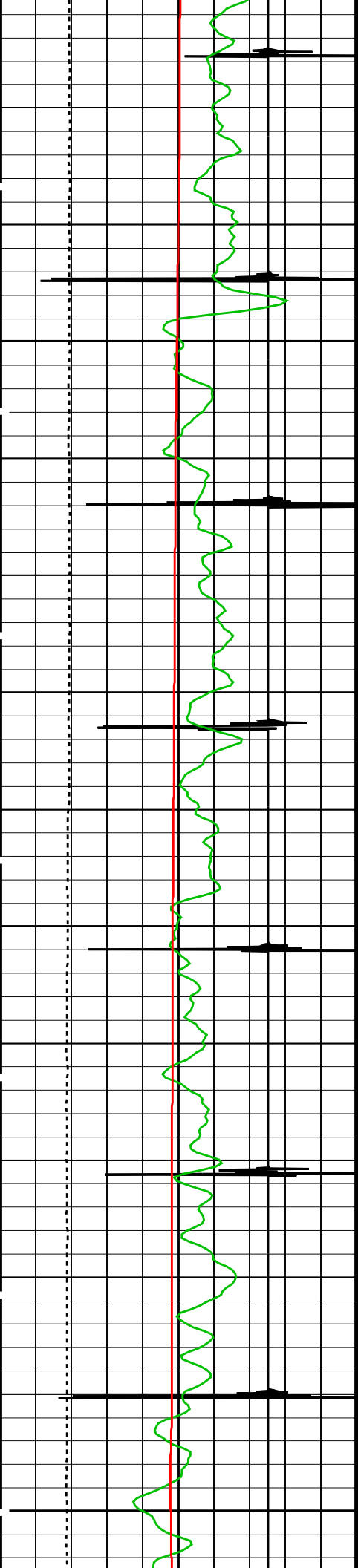


250

275

300

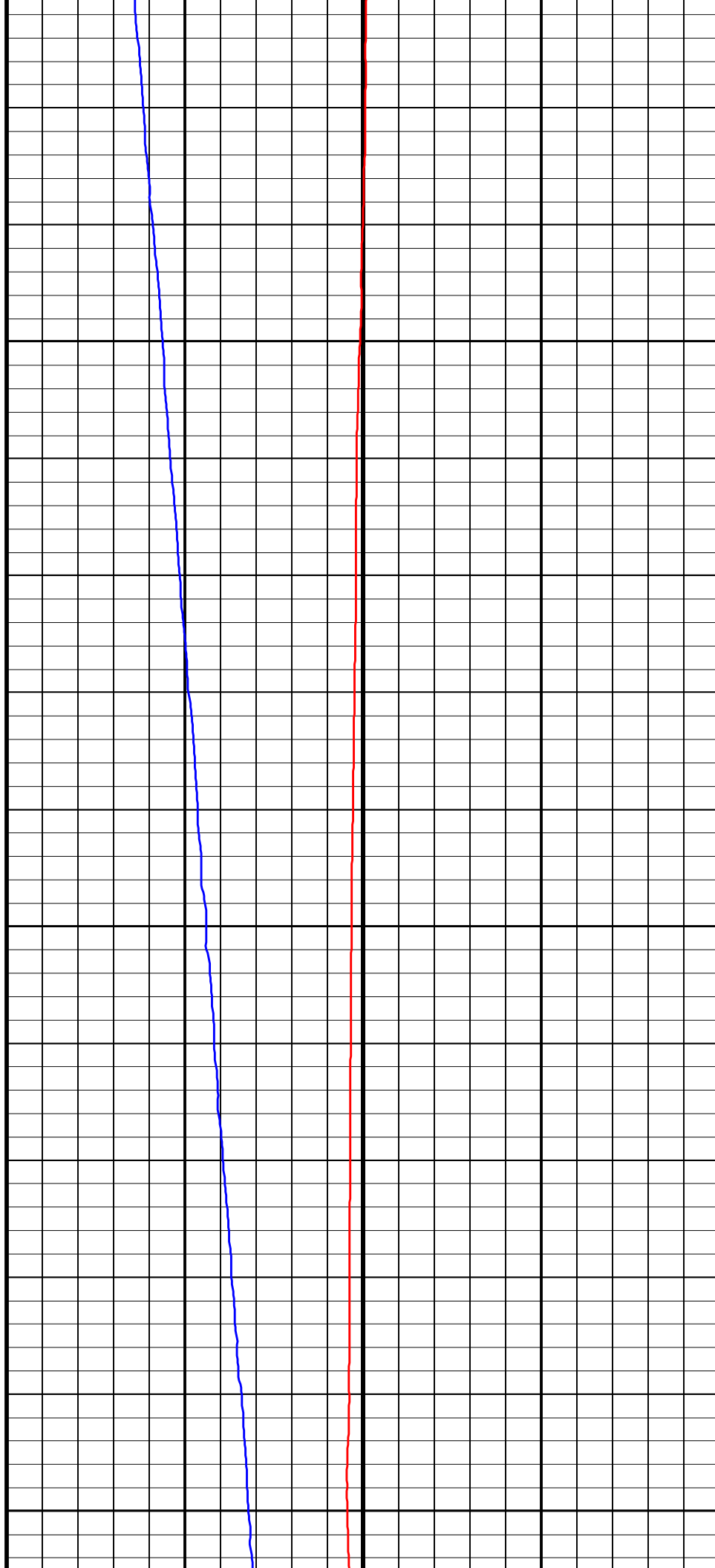


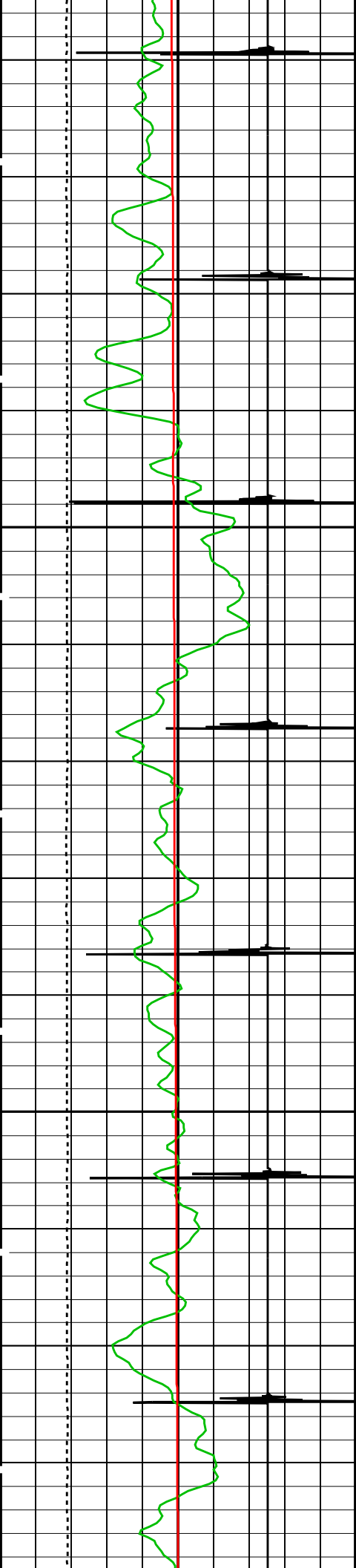


325

350

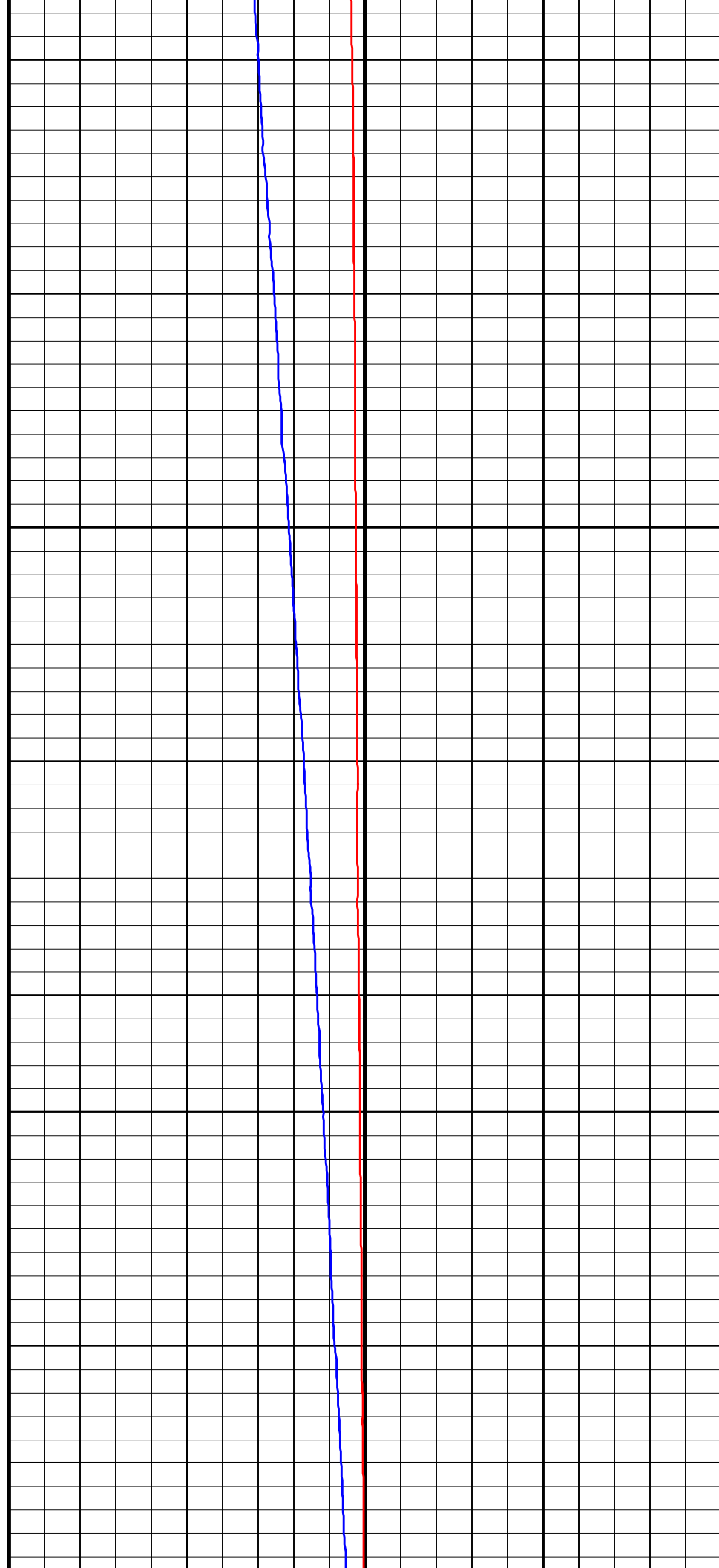
375

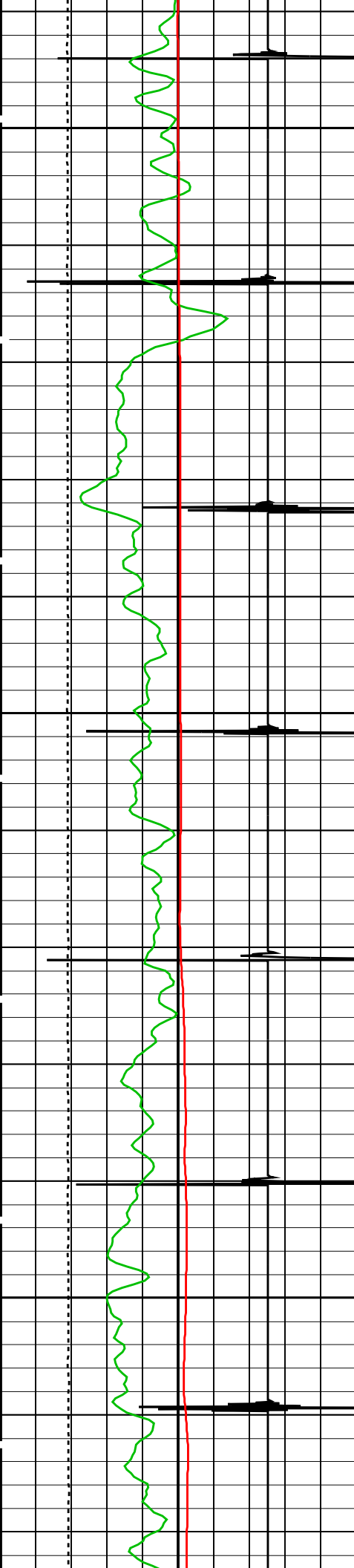




400

425

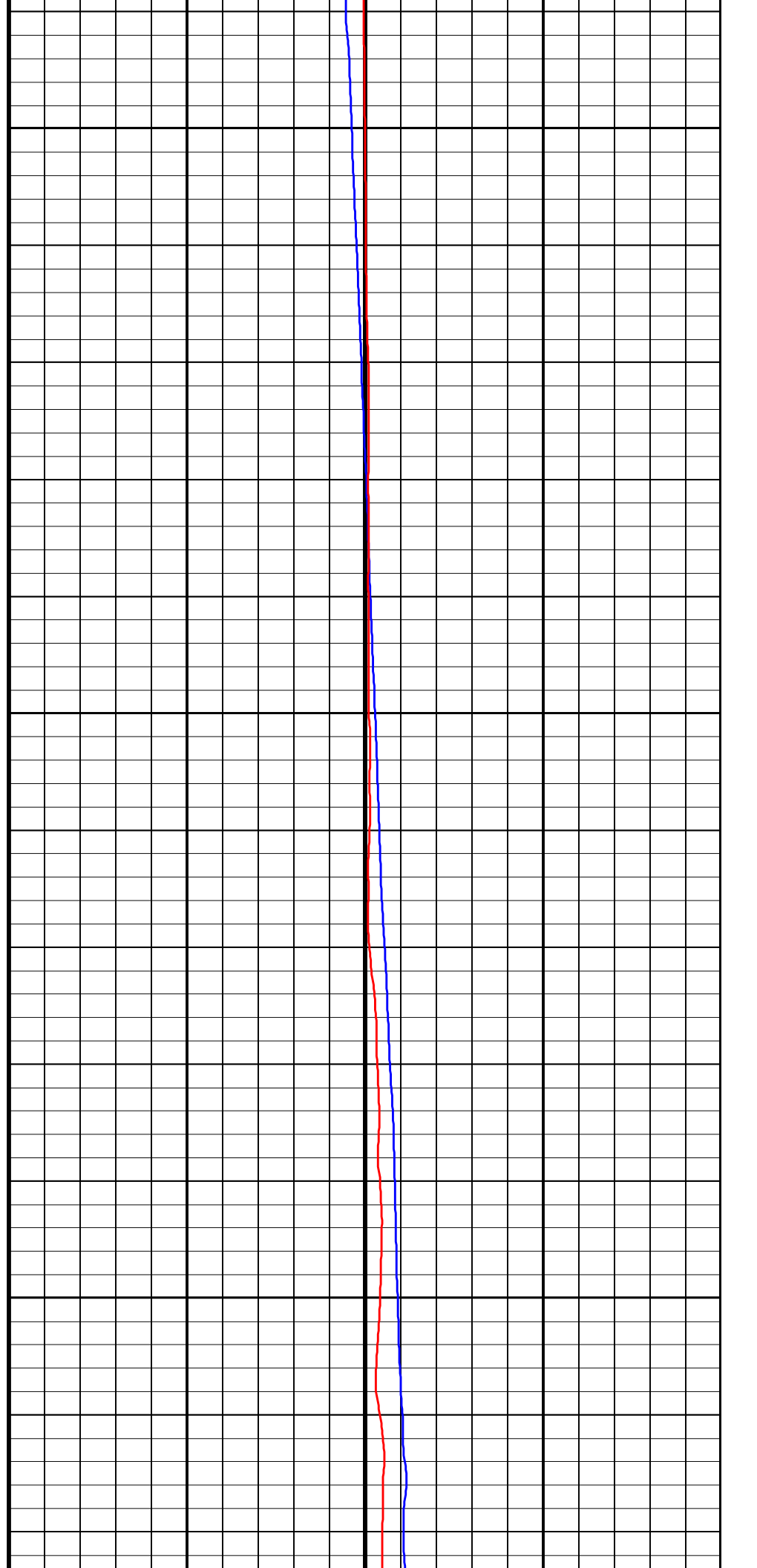


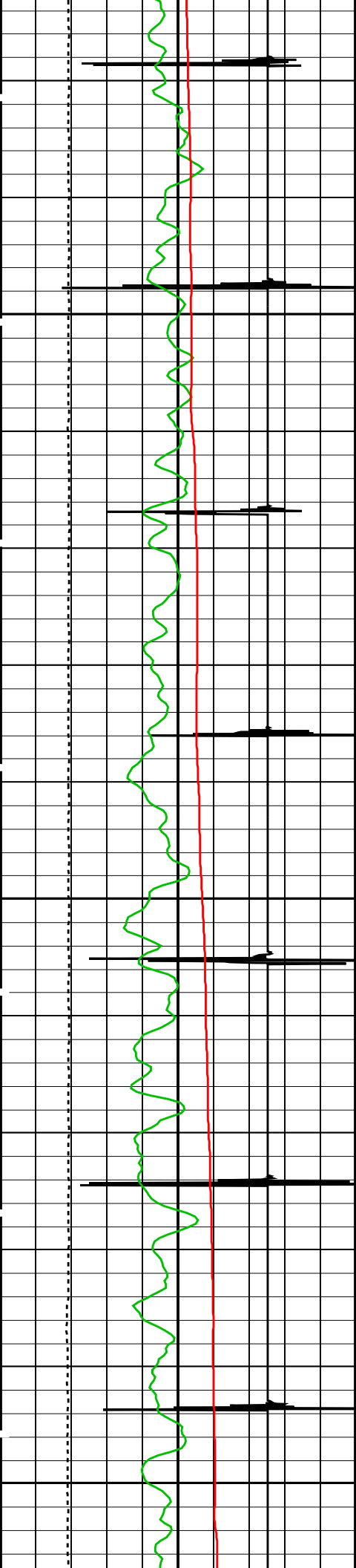


450

475

500

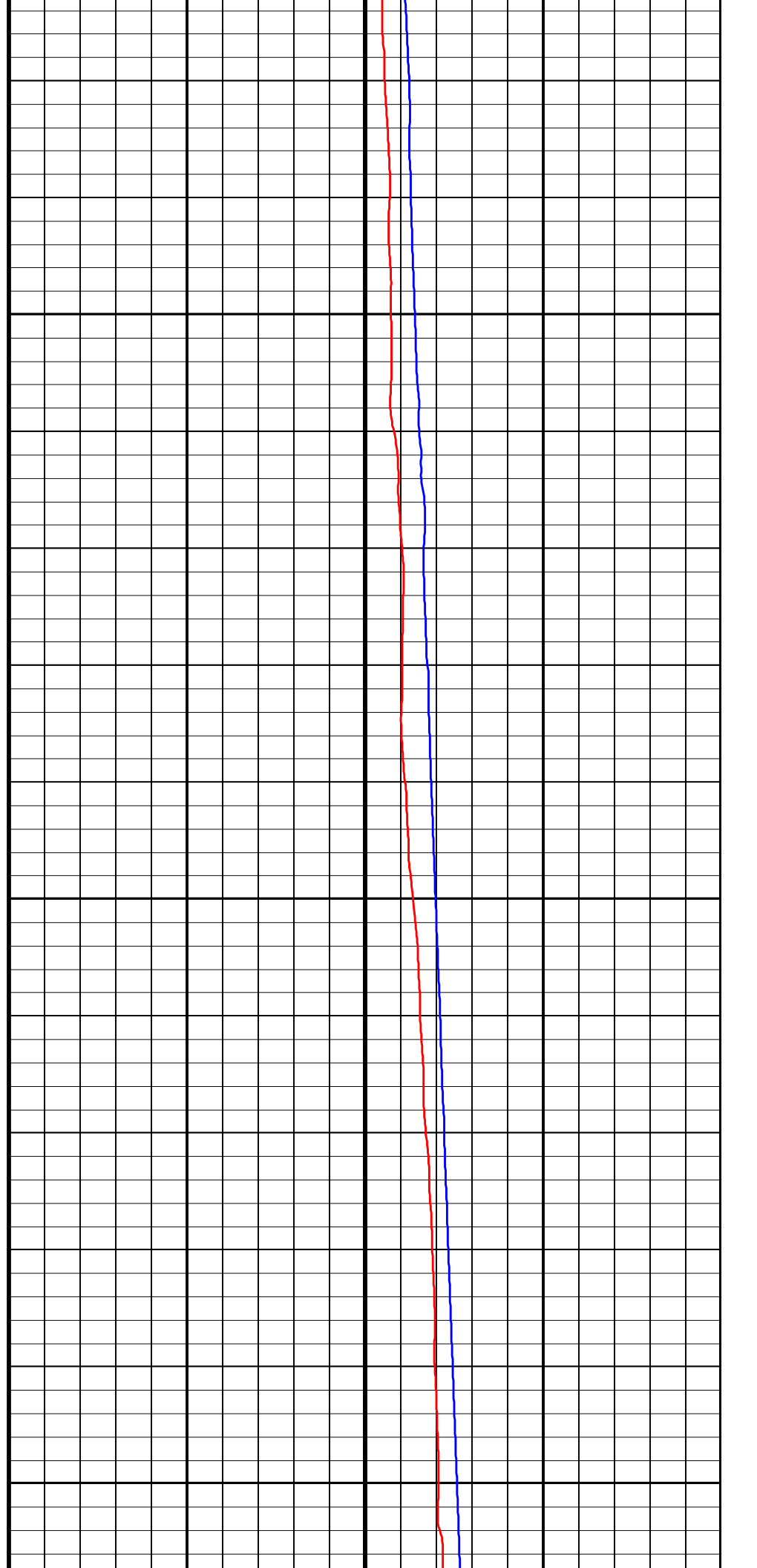


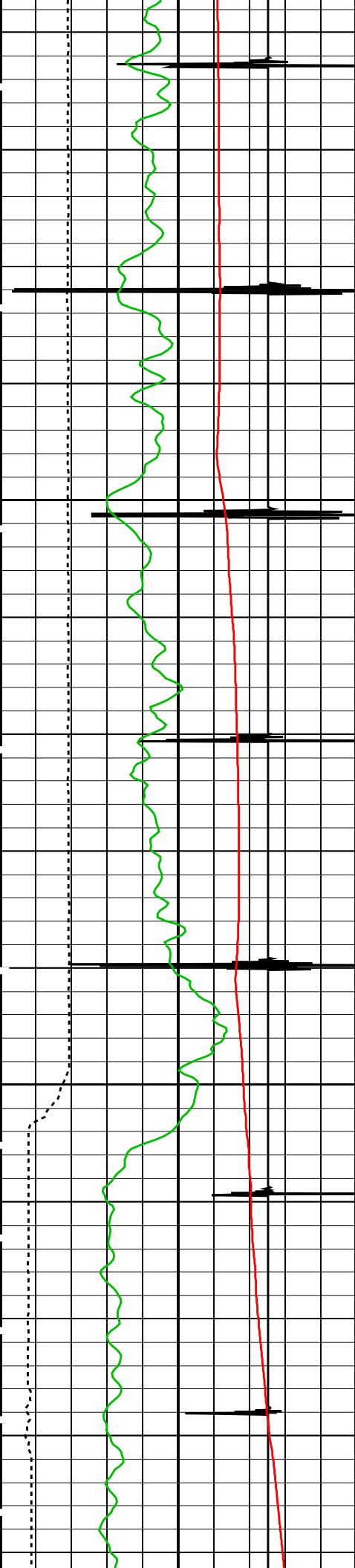


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550

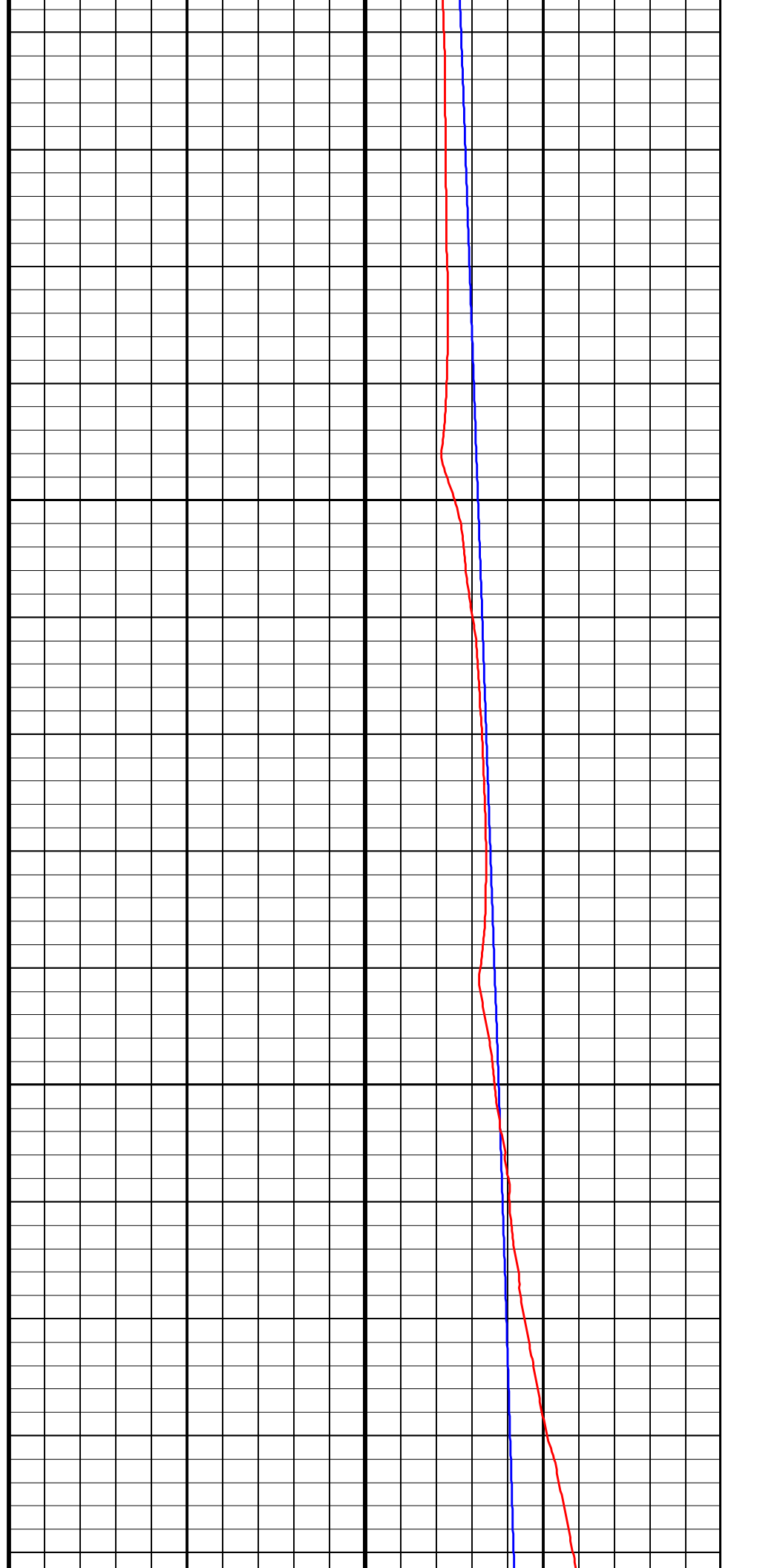
575

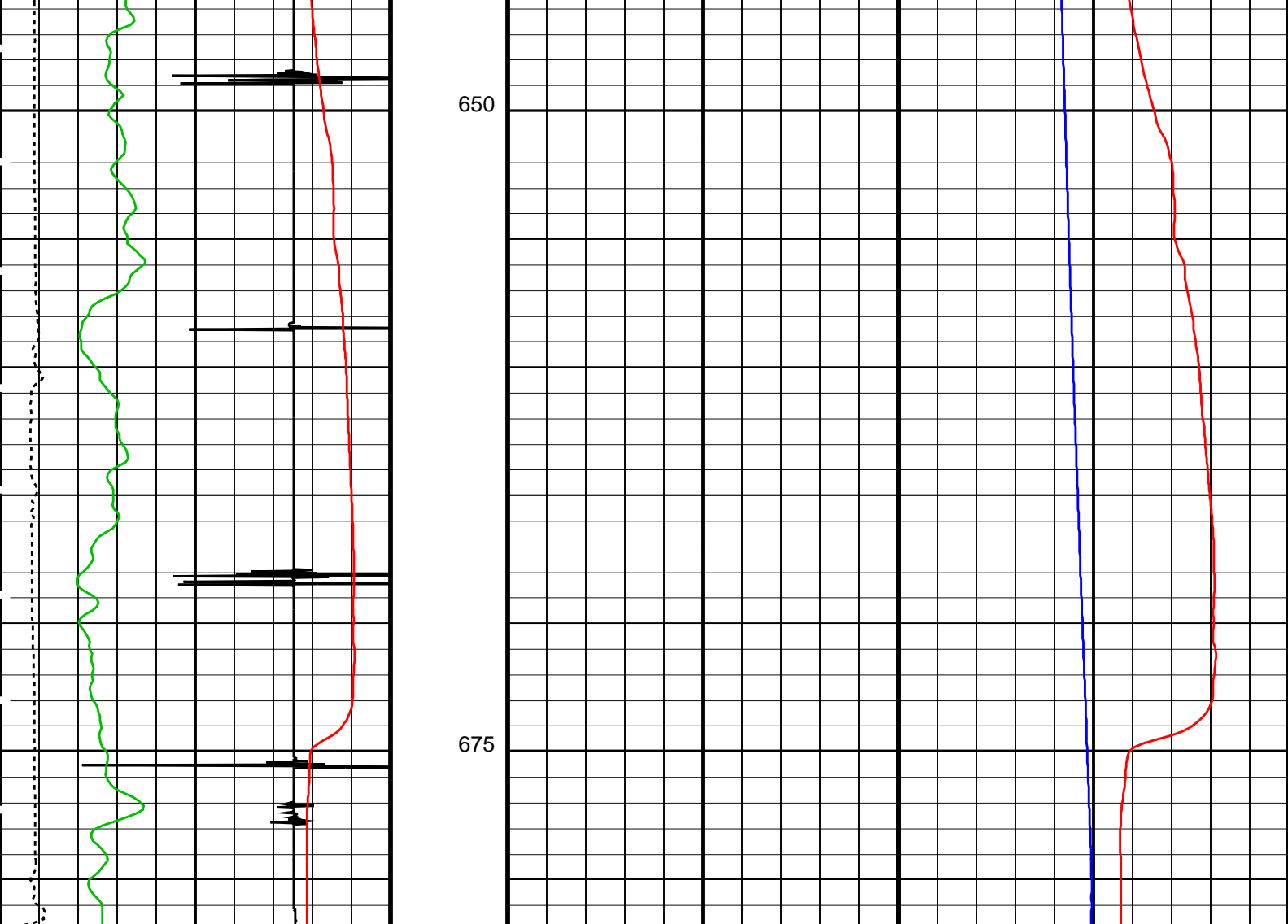




600

625





Cable Speed (CS) (M/MN)		0	50
Discriminated CCL (CCLD) (V)		-3	1
Gamma Ray (GR) (GAPI)		0	100
Well Temperature (WTEP) (DEGC)		0	150
Perfo Zone (PIFL) 20 (----) 0		Well Pressure (WPRE) (KPAA)	
Perfo Zone From CASED_ HOLE/PE RFO_ INTERVAL /CV to D3T		0	3000
Well Temperature (WTEP) (DEGC)		0	150

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	0.0 M
PP	Depth Offset for Playback	NORMAL
	Playback Processing	

PSPT	19C2-270					
Input DLIS Files						
DEFAULT	PSP_007LUP	FN:5	PRODUCER	28-Dec-2016 13:58	681.8 M	-2.3 M
Output DLIS Files						
DEFAULT	PSP_013PUP	FN:11	PRODUCER	28-Dec-2016 15:40		

Company:	IMPERIAL OIL RESOURCES	Schlumberger
Well:	IMP 12 N03-03 COLD LK 13-25-66-3	
Field:	LEMING	
Province:	AB	
	***MD***	
TEMPERATURE LOG		
TEMPERATURE / GAMMA RAY / CCL		