



DUAL INDUCTION LOG

Company Taos Resources Operating Company LLC

Well LFJ #4

Field Unnamed

County Cowley

State Kansas

Location:

API #: 15 035 24675

330' FNL & 990' FEL

SEC 33 TWP 32S RGE 5E

Permanent Datum Ground Level Elevation 1262'
Log Measured From KB 5' AGL
Drilling Measured From KB

Other Services
CDNL
BHC
ML

Elevation

K.B. 1267'
D.F. 1266'
G.L. 1262'

Date 10-17-17

Run Number One

Depth Driller 3560'

Depth Logger 3560'

Bottom Logged Interval 3558'

Top Log Interval 350'

Casing Driller 8 5/8" @ 243'

Casing Logger 243'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.7/46

pH / Fluid Loss 9.5/8.6

Source of Sample Pit

Rm @ Meas. Temp 1.10@76degf

Rmf @ Meas. Temp 0.88@76degf

Rmc @ Meas. Temp 1.41@76degf

Source of Rmf / Rmc Calculated

Rm @ BHT 0.75@111degf

Time Circulation Stopped 9:00 a.m.

Time Logger on Bottom 11:45 a.m.

Maximum Recorded Temperature 111degf

Equipment Number T-729

Location Hays, KS

Recorded By C. Patterson

Witnessed By Mr. Mike Pressnall

Mr. Ray Dorthy

<<< 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

East of Winfield(Main St. and 160 Hwy) 6.5 mi. to 151st rd., 1 south to 172nd Rd.,
1/2 West, South into Location

Thank you for using Gemini Wireline
785-625-1182



MAIN PASS

Database File trlfj4oh.db
Dataset Pathname pass2.1
Presentation Format kdi11nn
Dataset Creation Tue Oct 17 13:17:49 2017
Charted by Depth in Feet scaled 1:600

0 GR (GAPI) 150

1000 CILD (mmho/m) 0

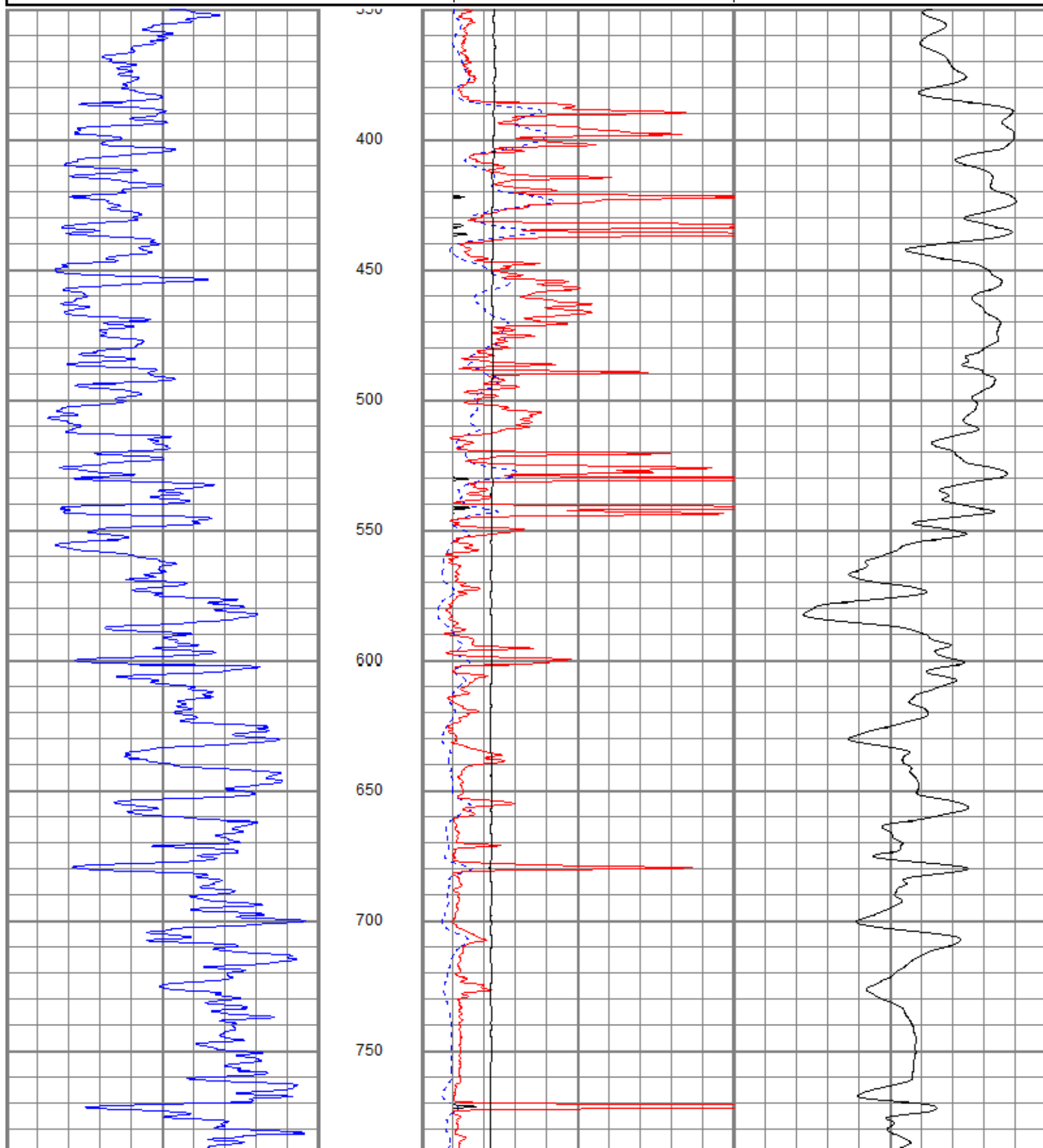
10000 LTEN (lb) 0

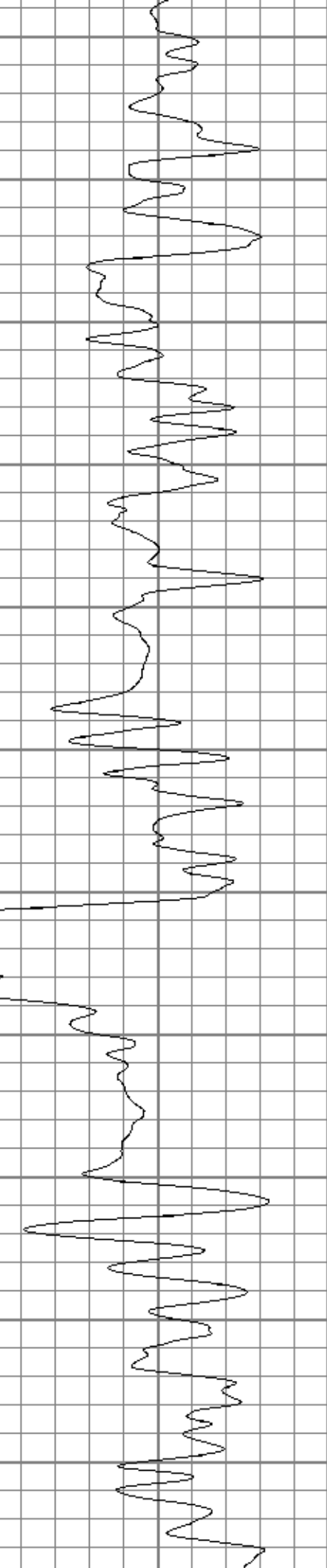
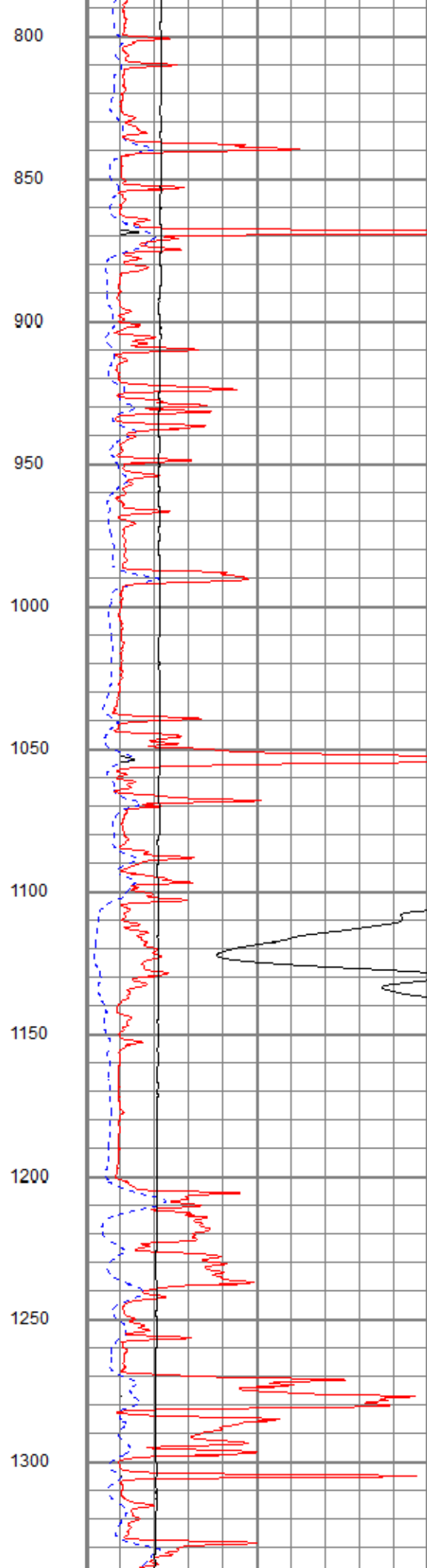
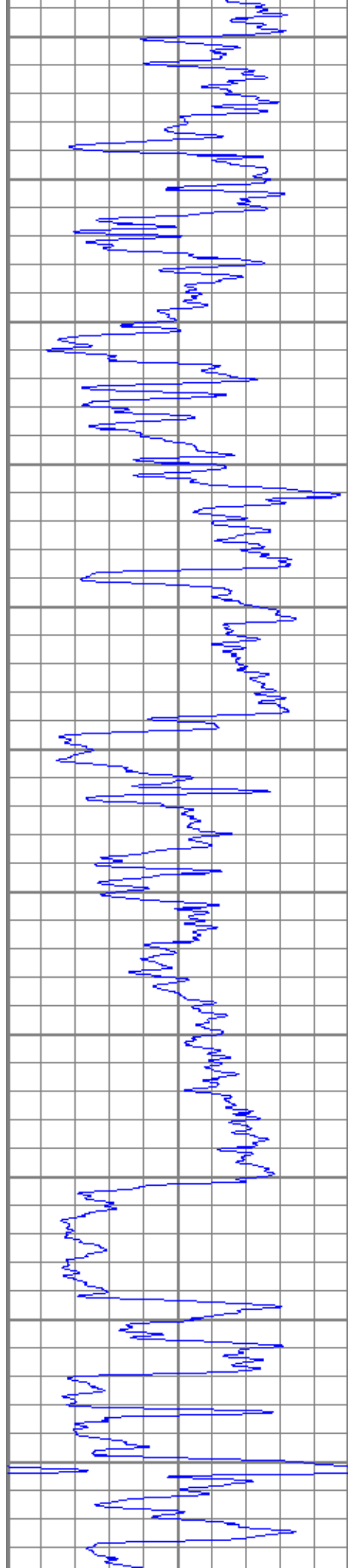
0 RILD (Ohm-m) 50

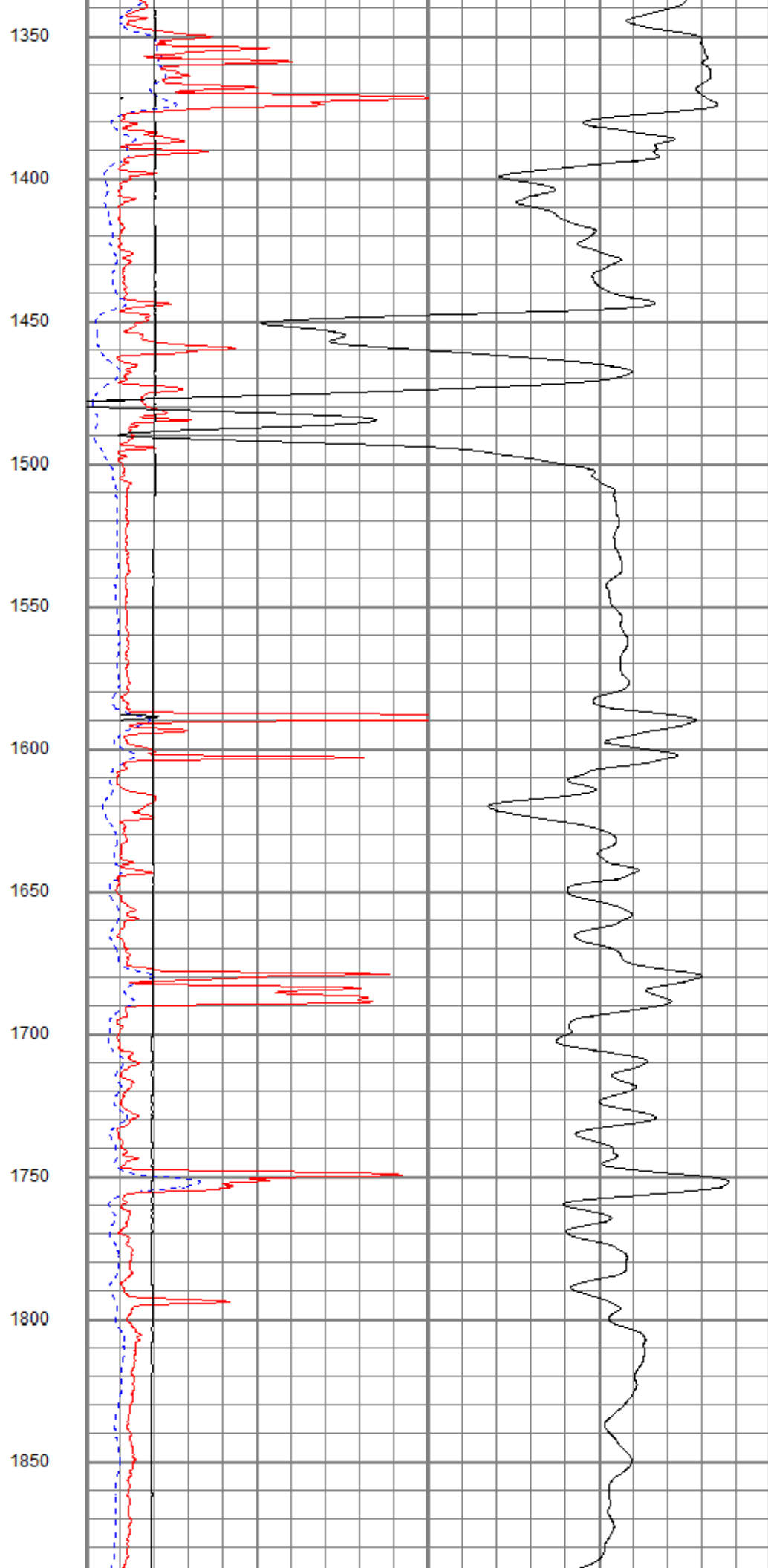
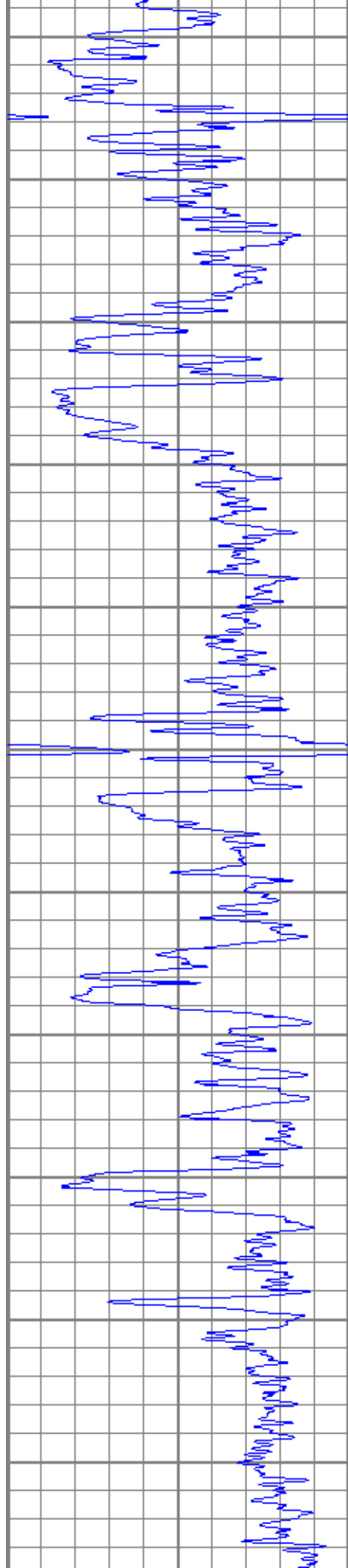
0 RLL3 (Ohm-m) 50

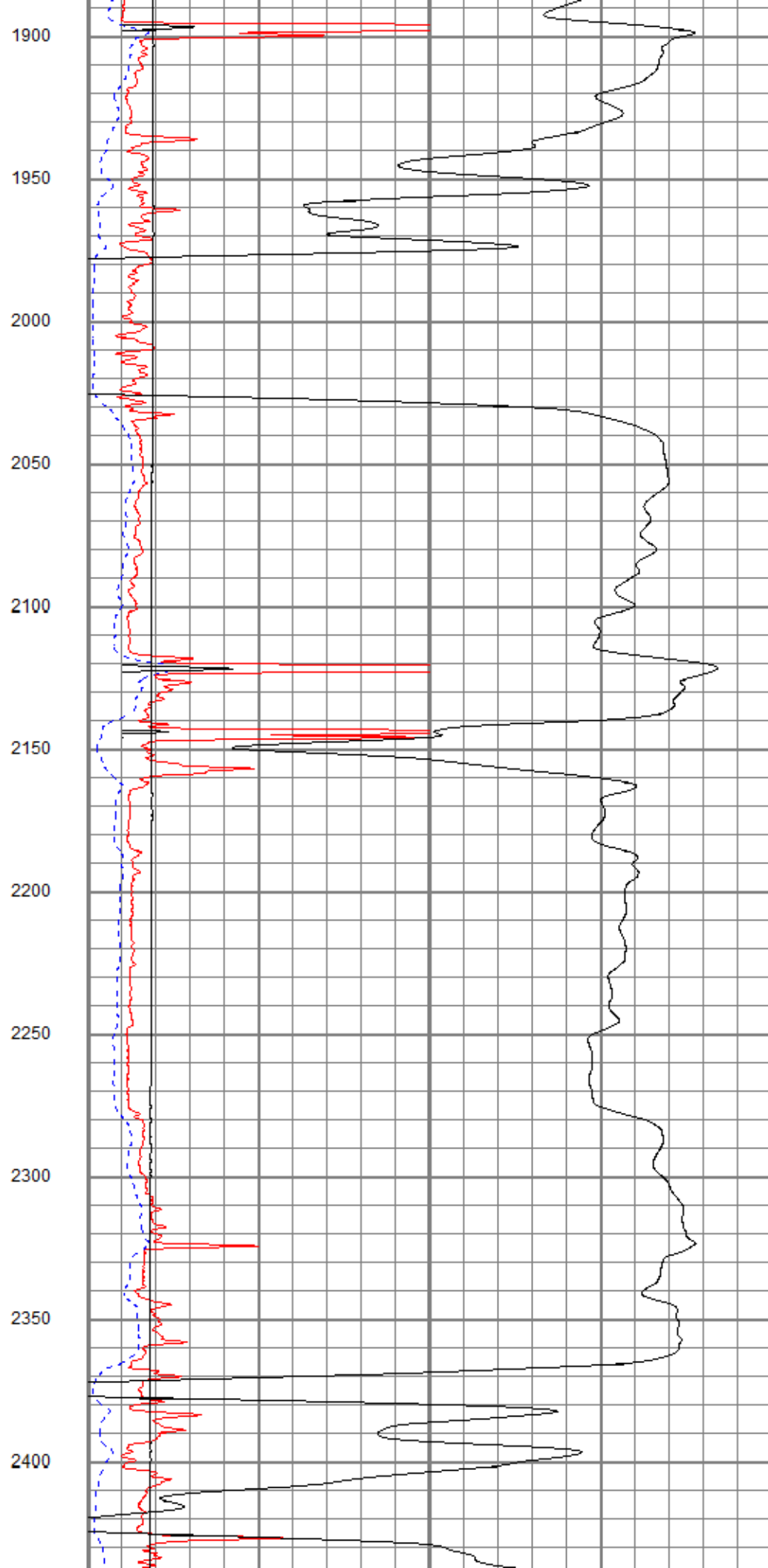
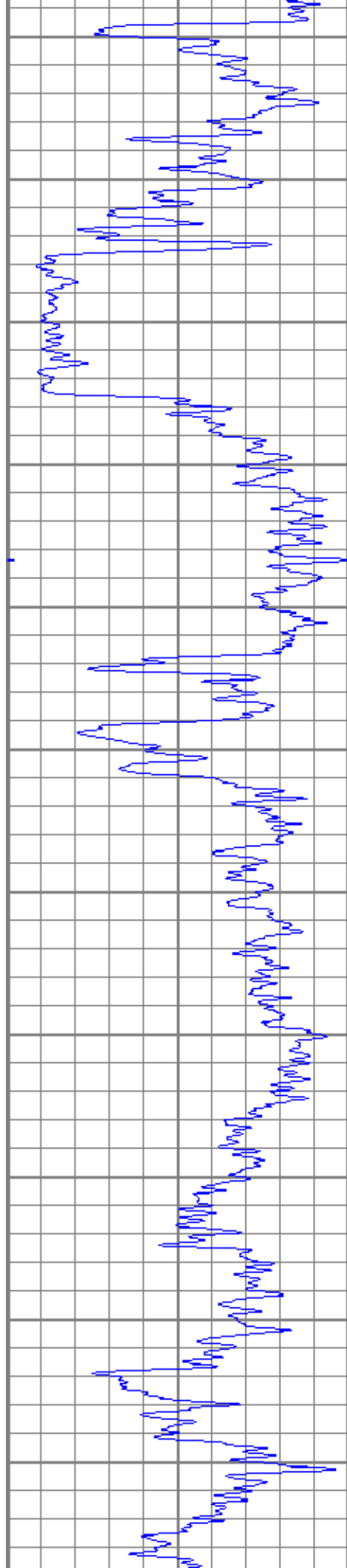
50 RILD x 10 (Ohm-m) 500

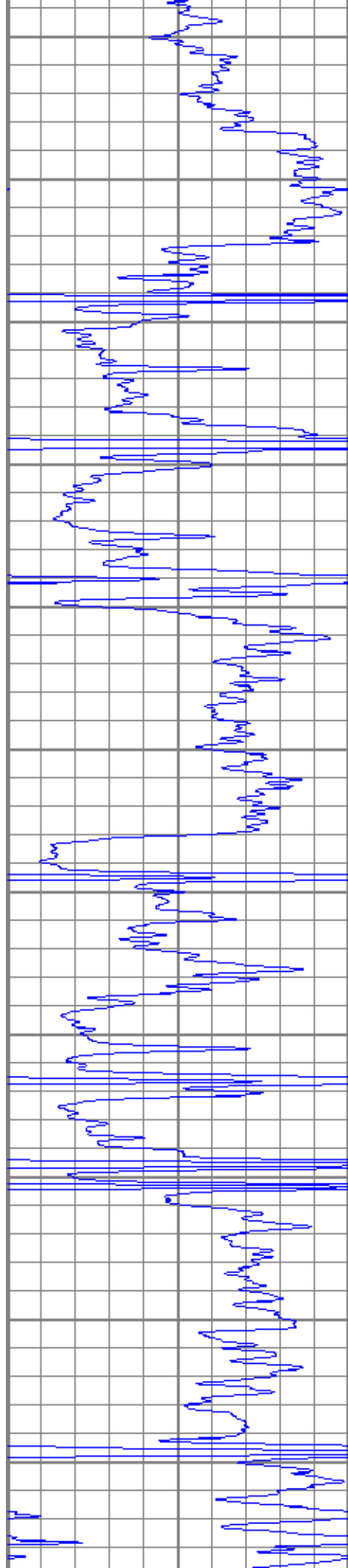
50 RLL3 x 10 (Ohm-m) 500











2450

2500

2550

2600

2650

2700

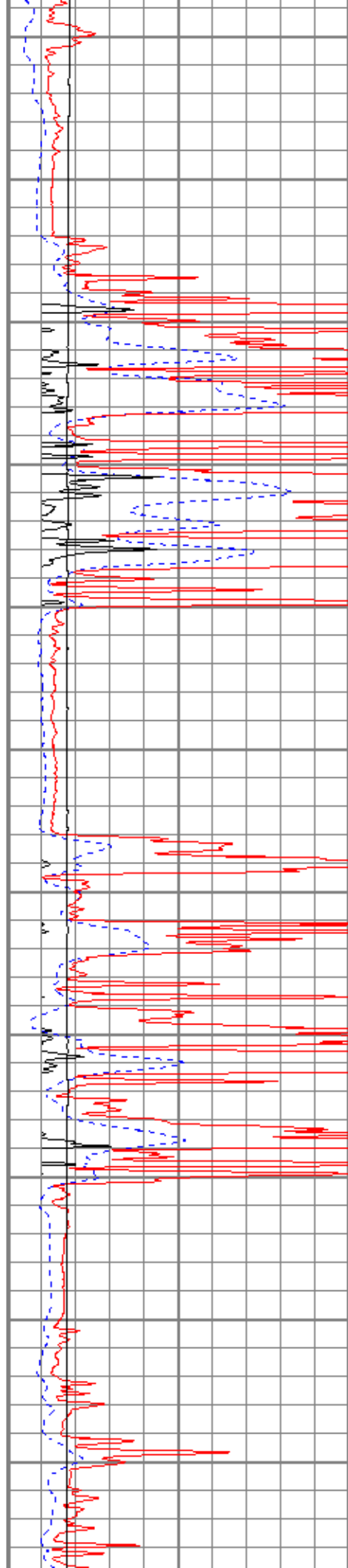
2750

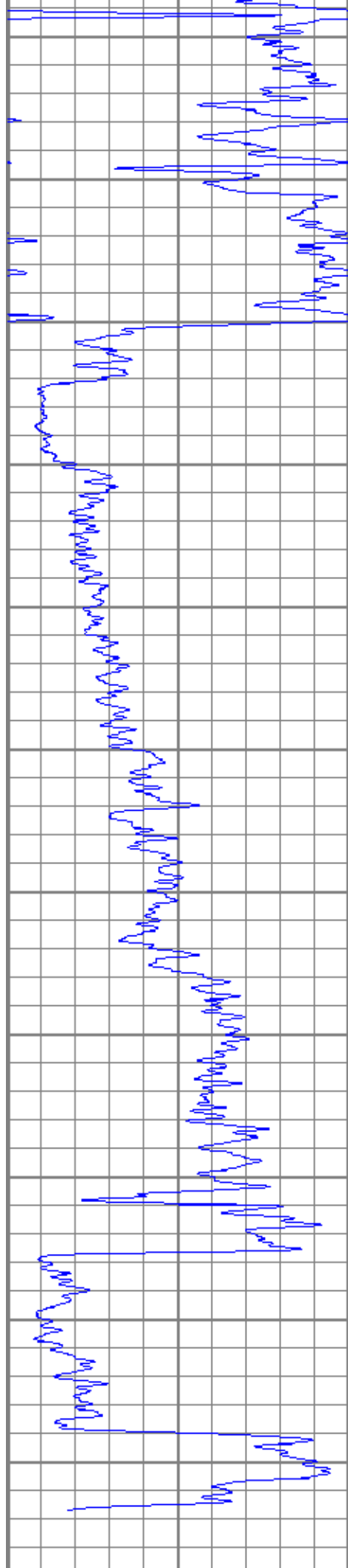
2800

2850

2900

2950





3000

3050

3100

3150

3200

3250

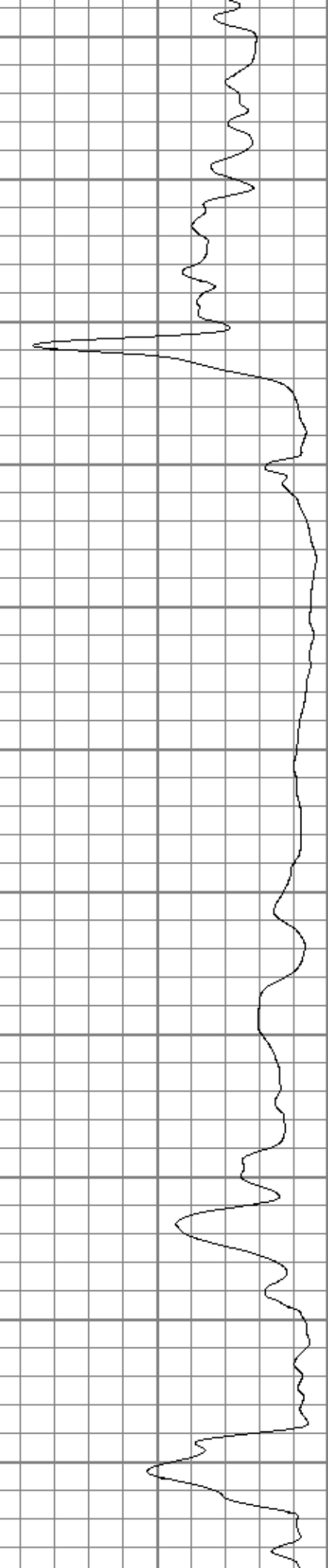
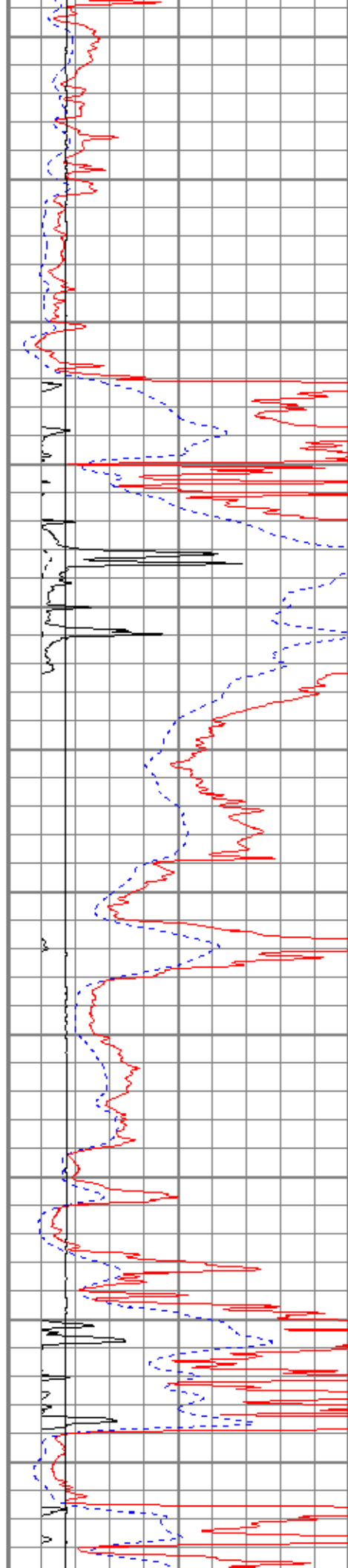
3300

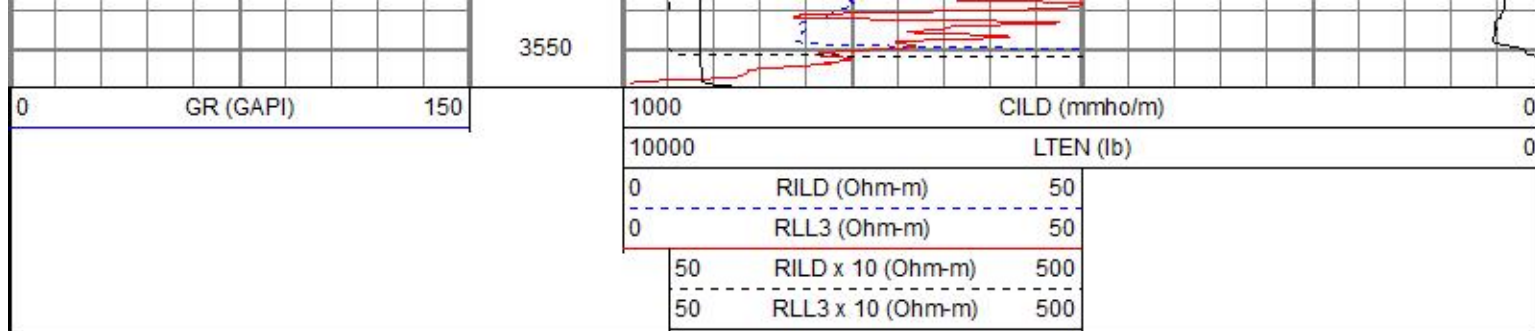
3350

3400

3450

3500

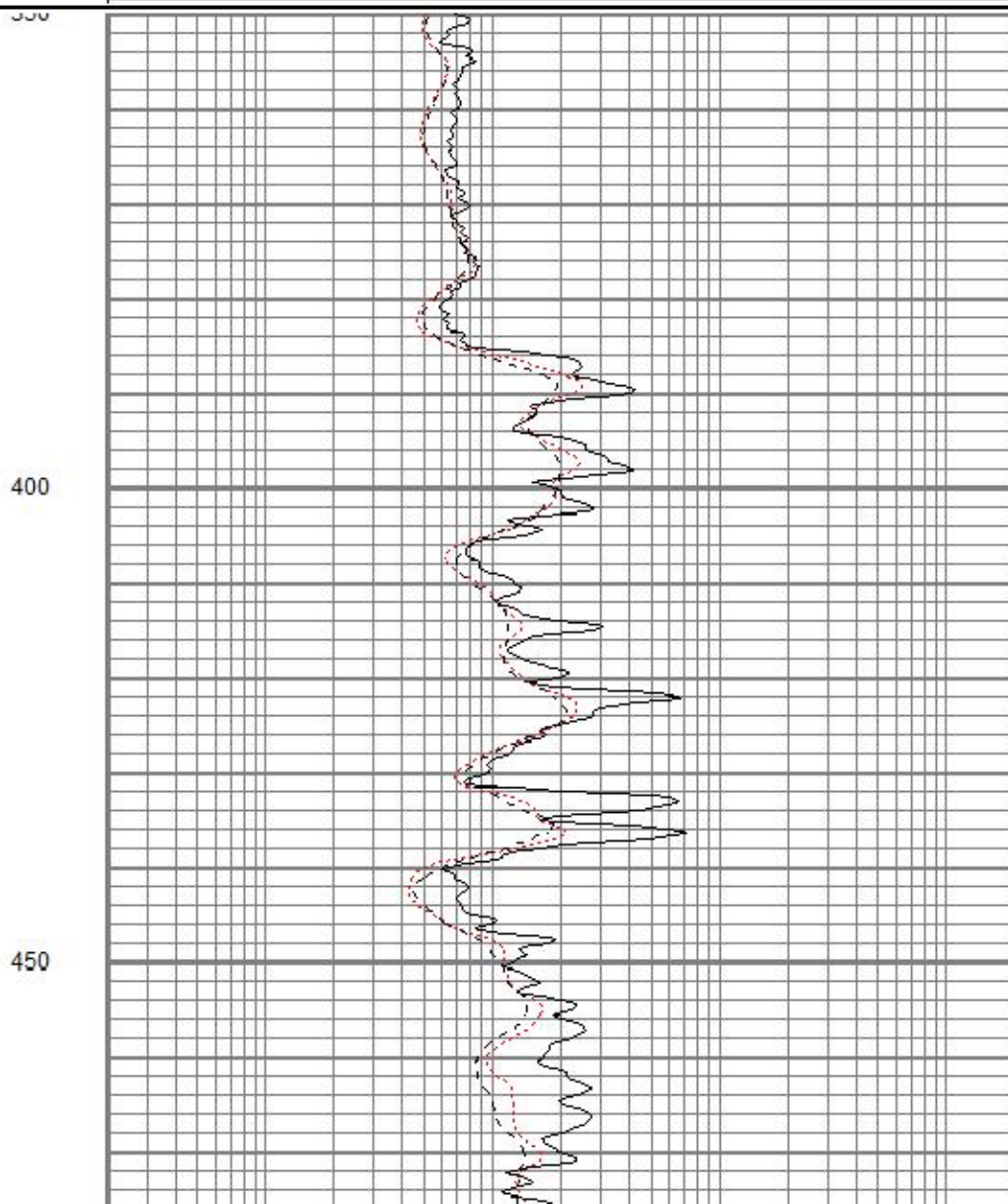
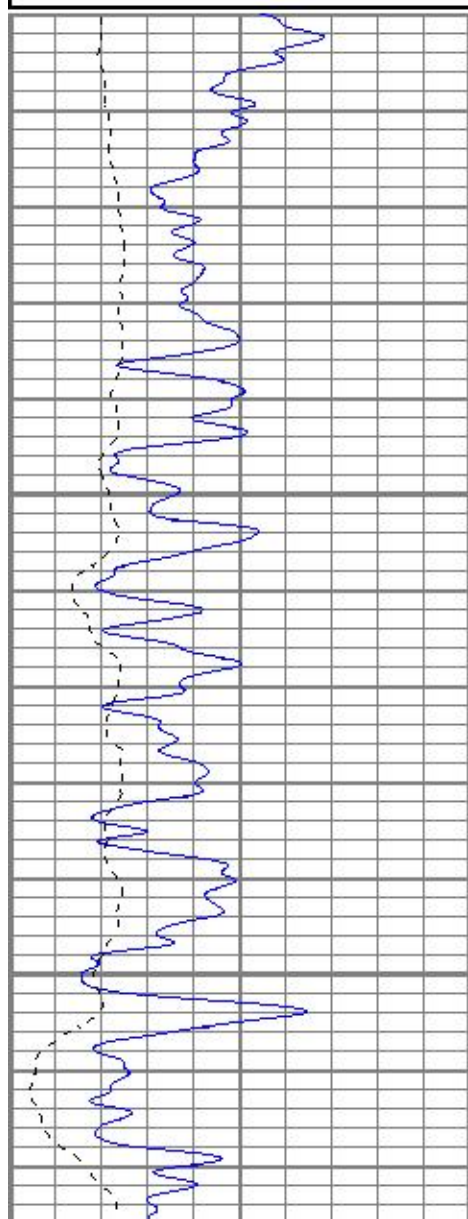


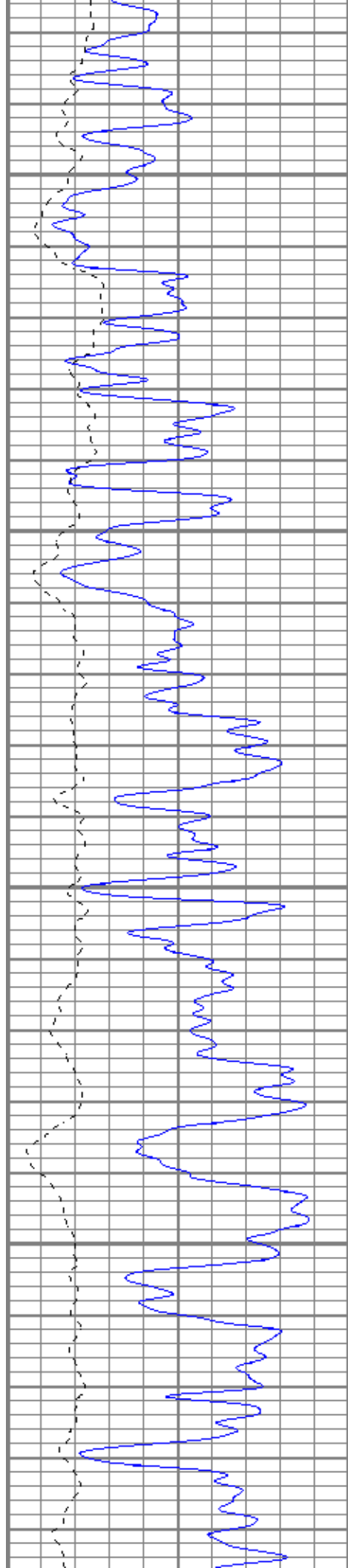


MAIN PASS

Database File: trlf4oh.db
 Dataset Pathname: pass2.1
 Presentation Format: kdil
 Dataset Creation: Tue Oct 17 13:17:49 2017
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000



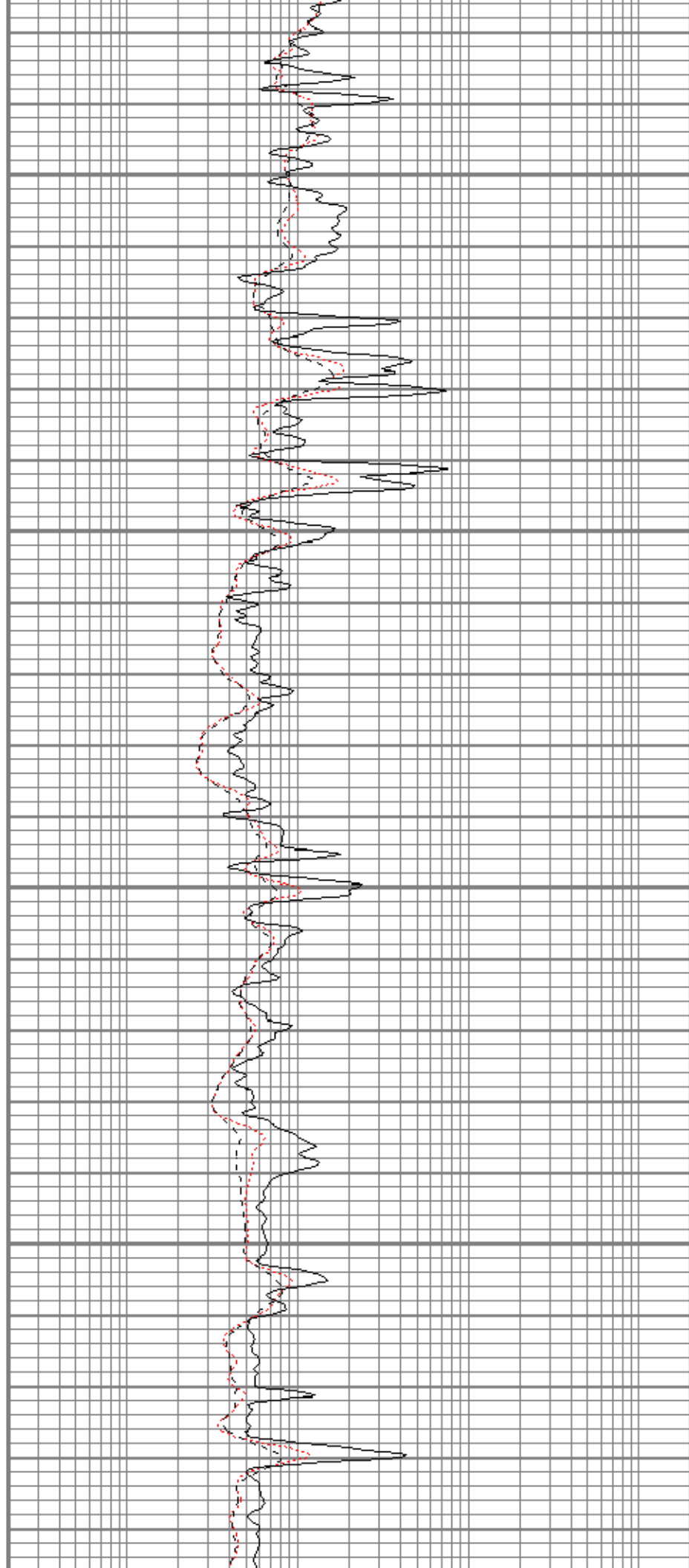


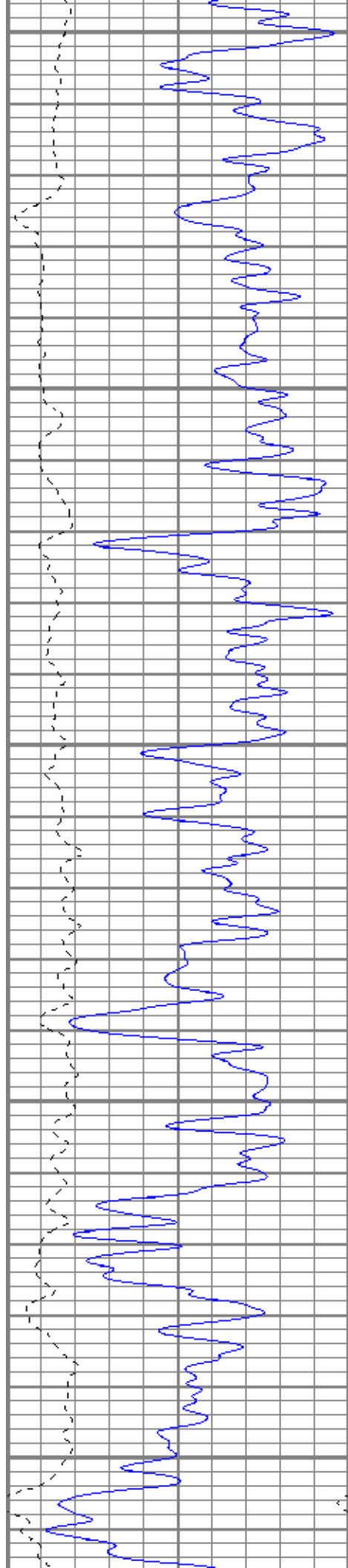
500

550

600

650





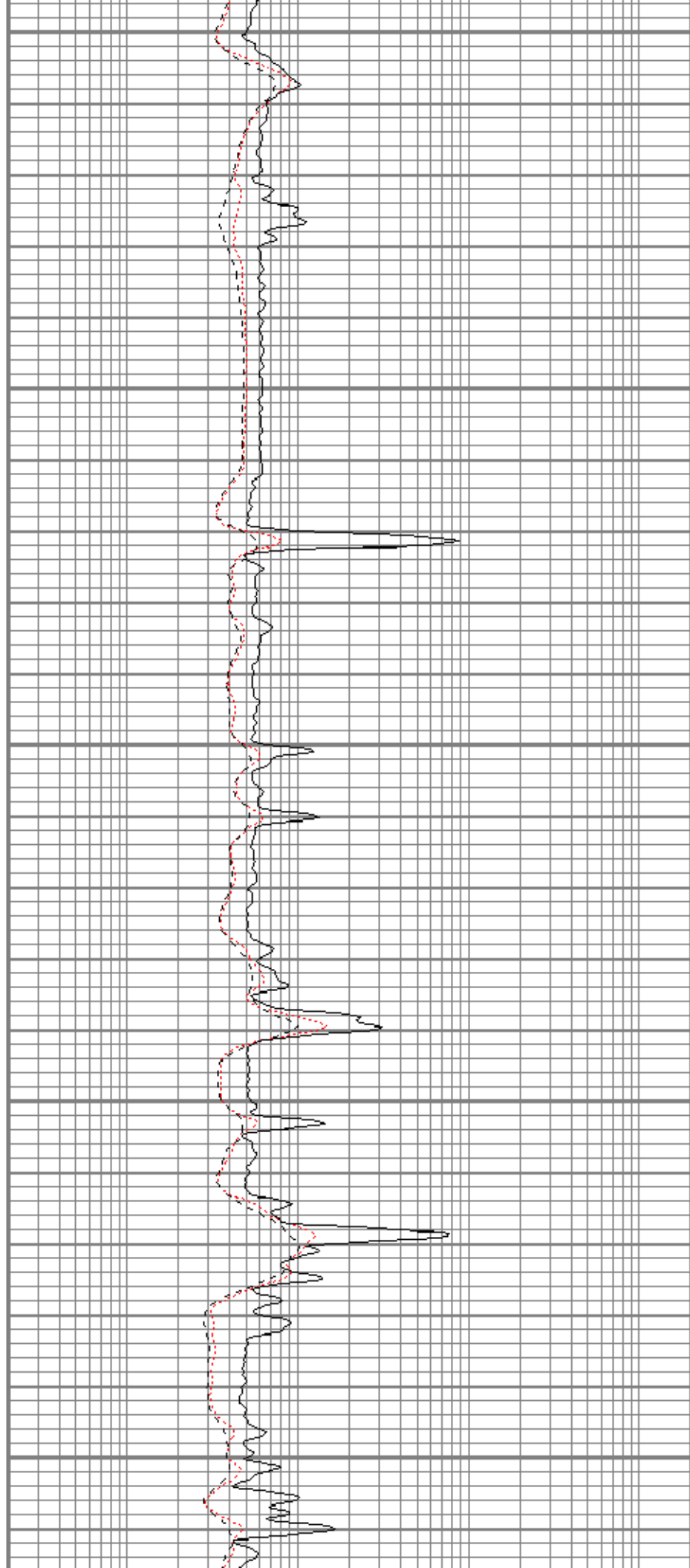
700

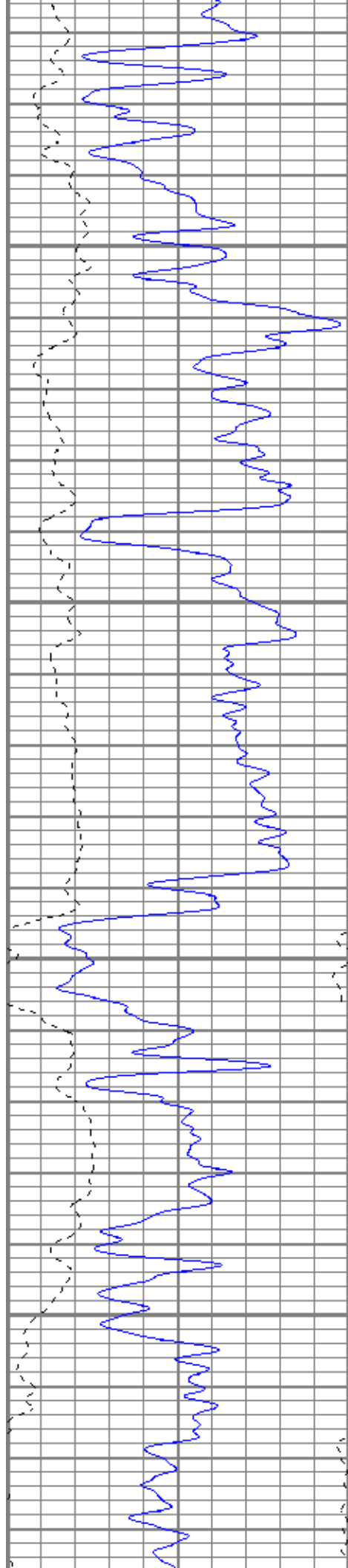
750

800

850

900



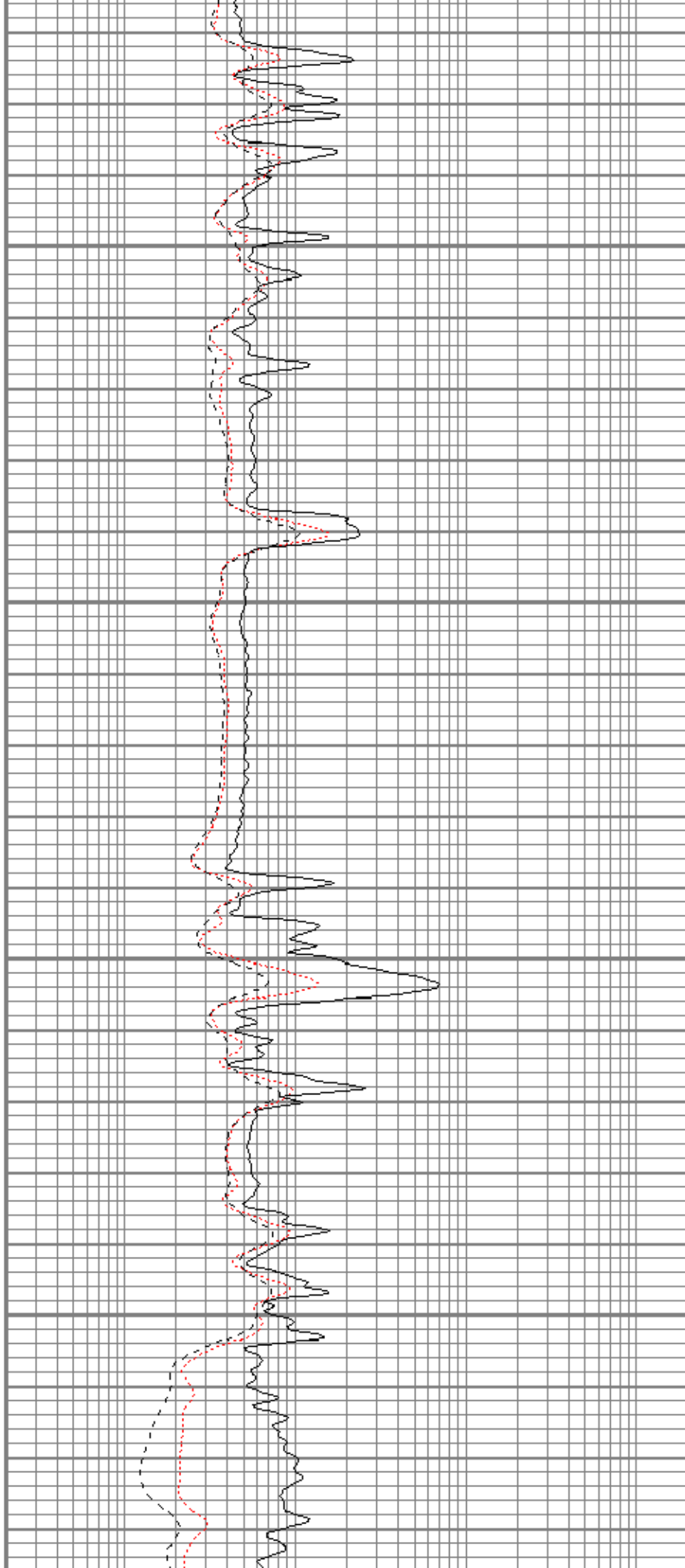


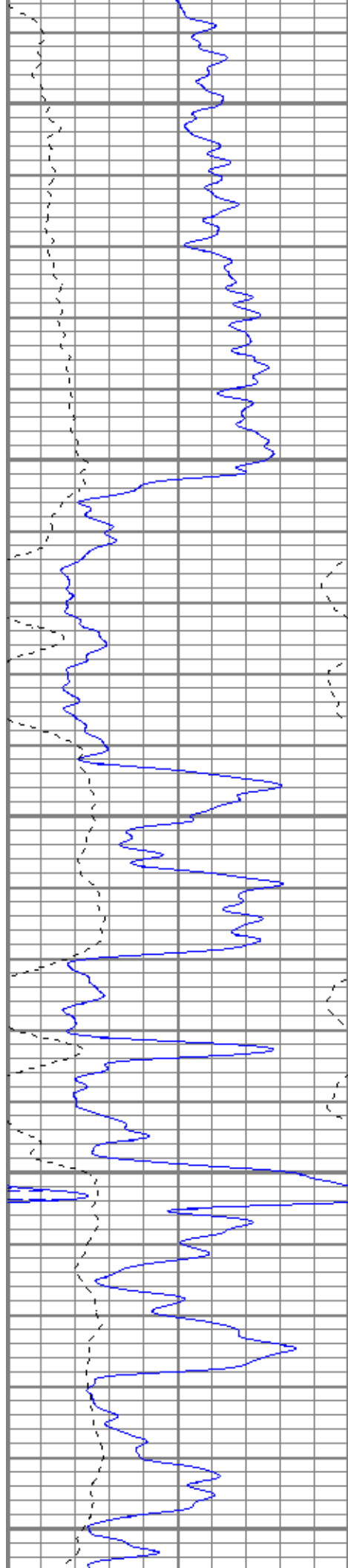
950

1000

1050

1100





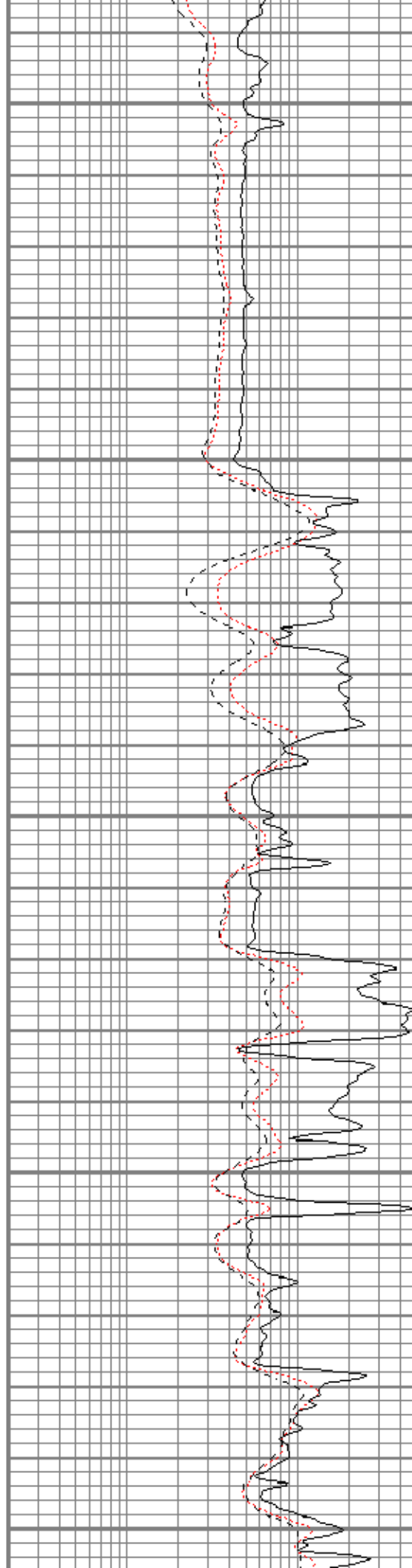
1150

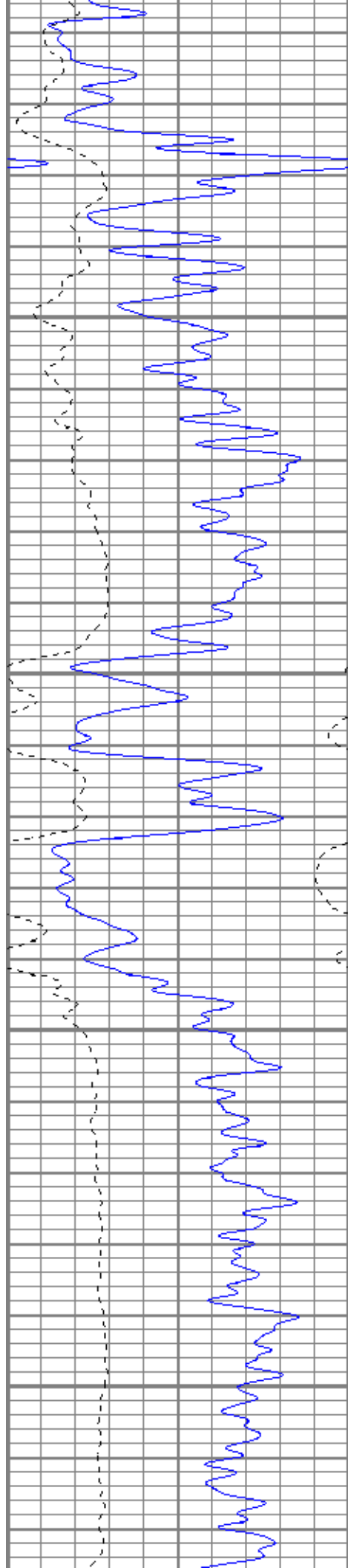
1200

1250

1300

1350



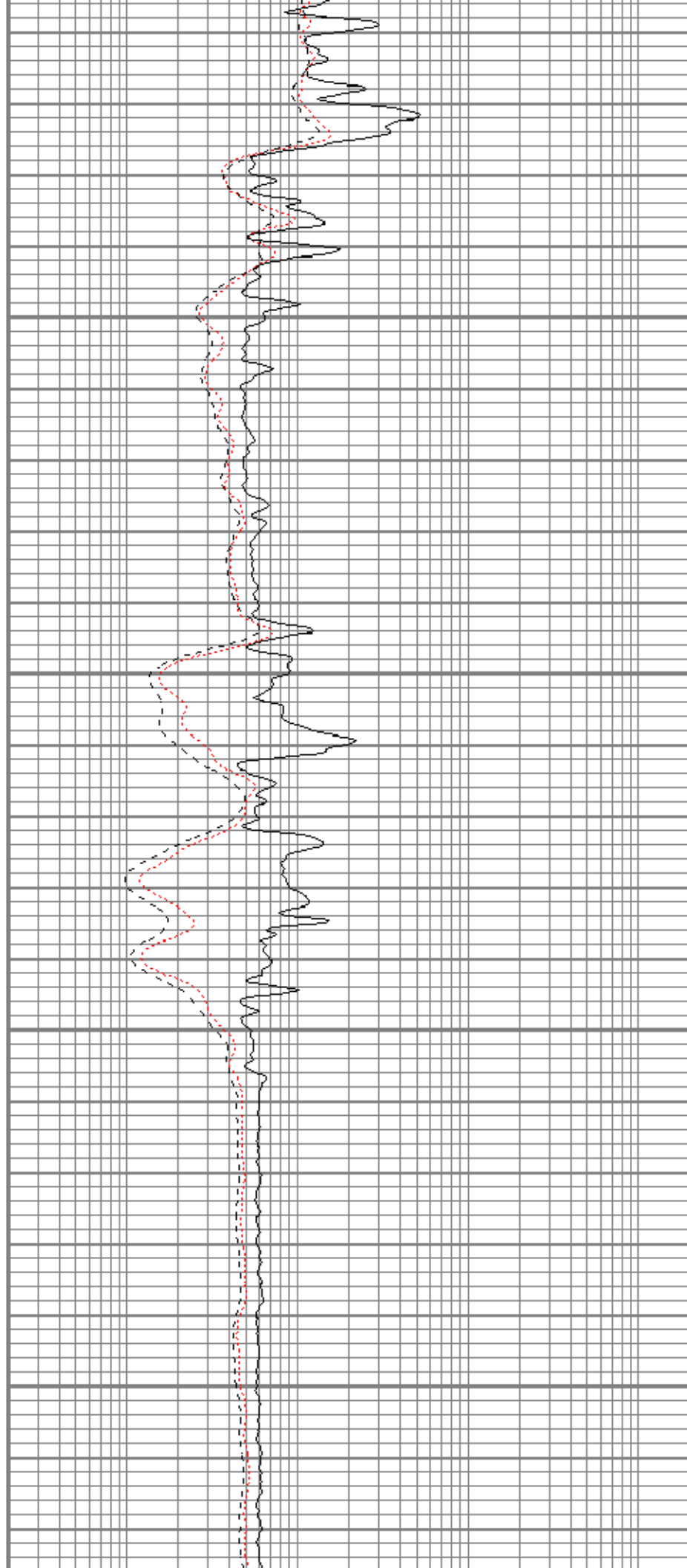


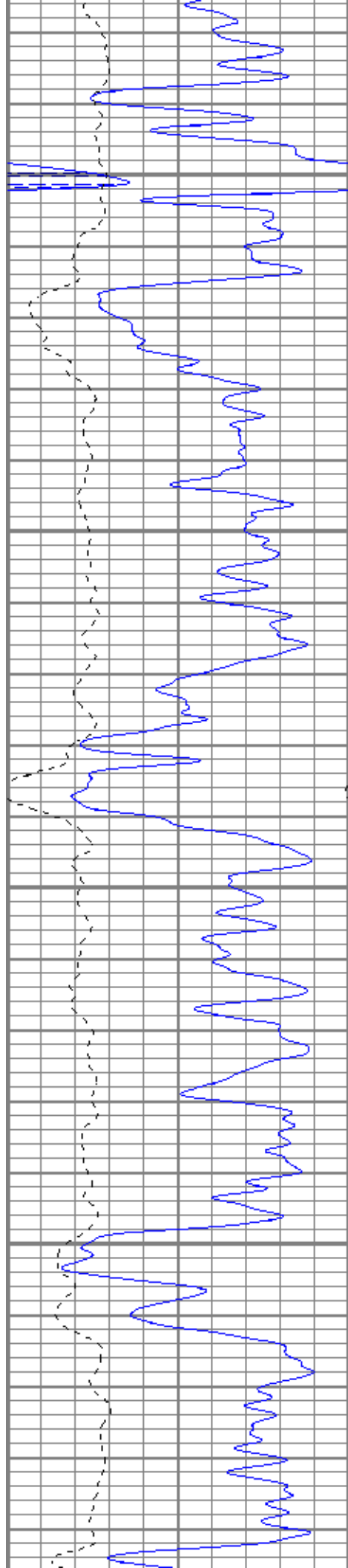
1400

1450

1500

1550



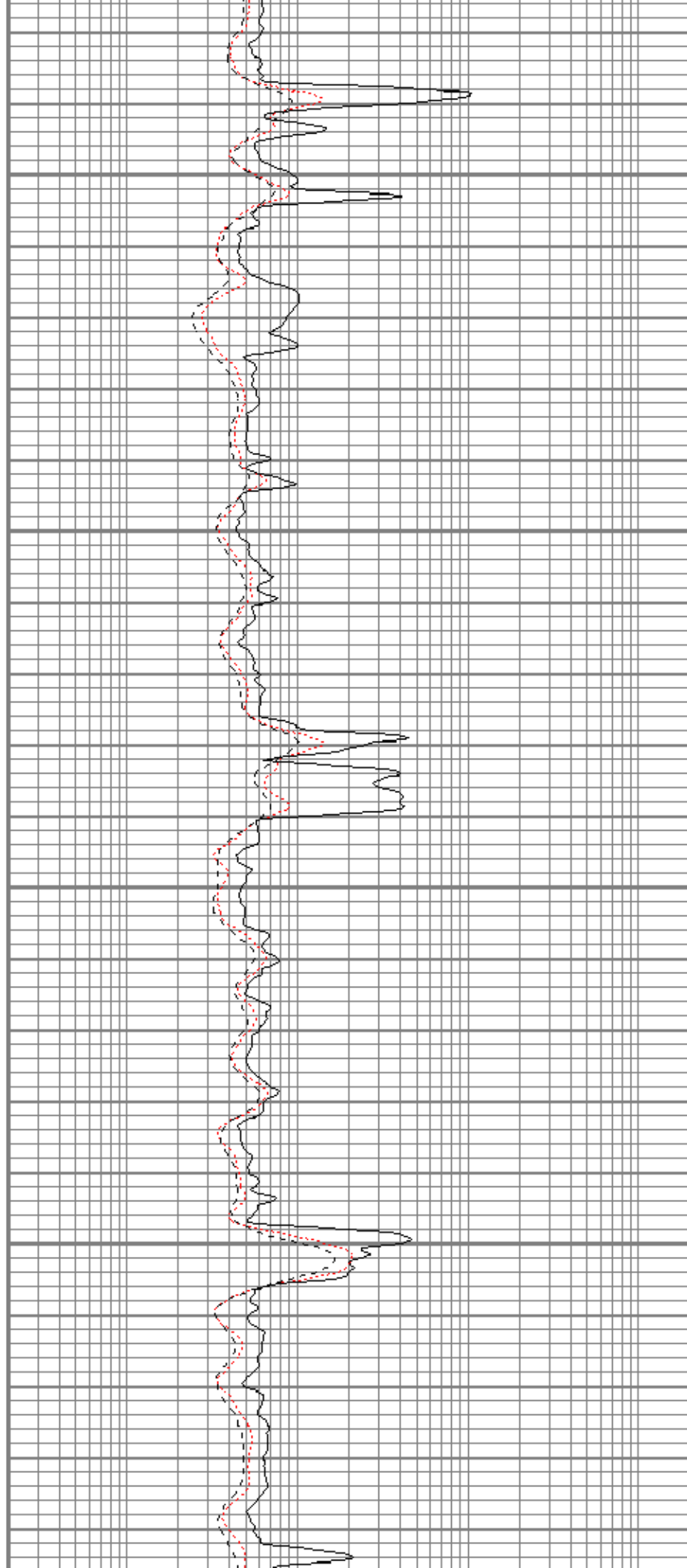


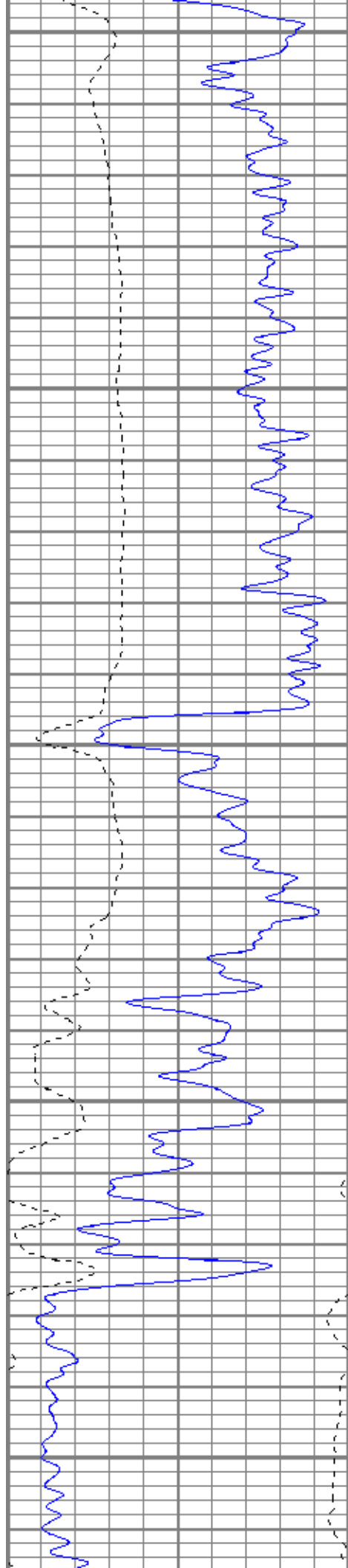
1600

1650

1700

1750





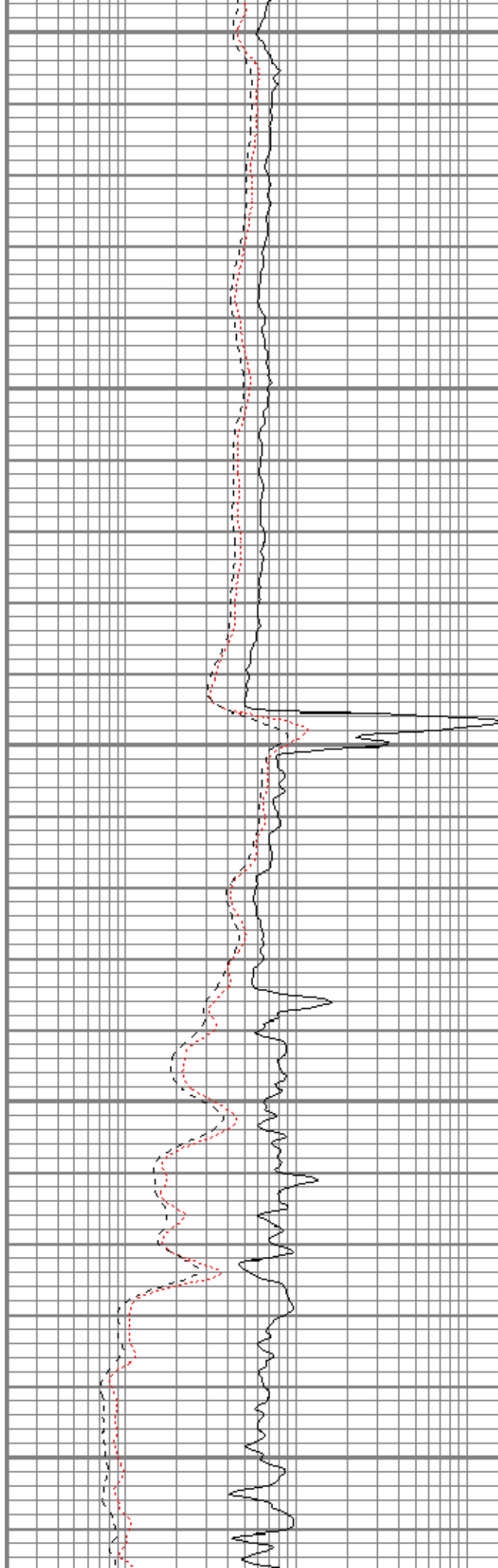
1800

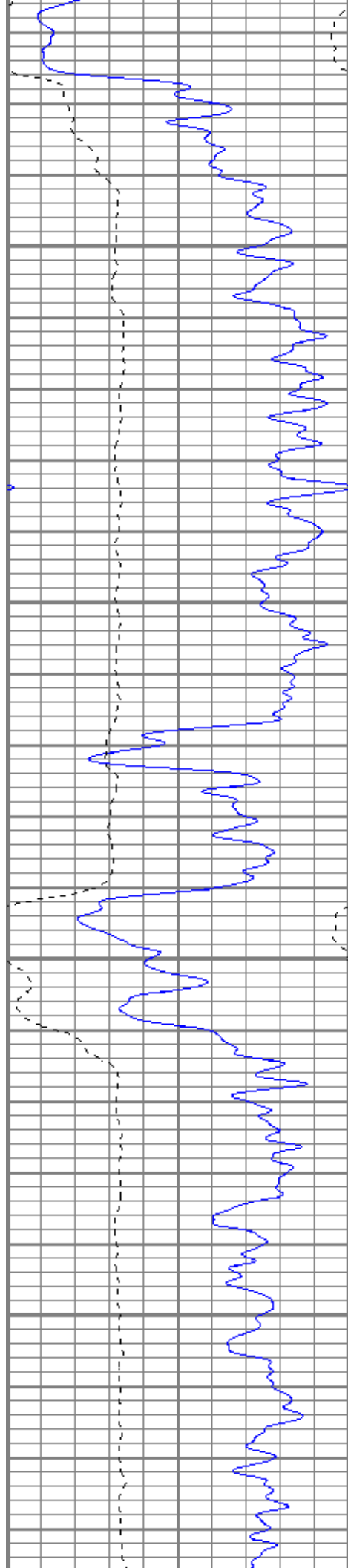
1850

1900

1950

2000



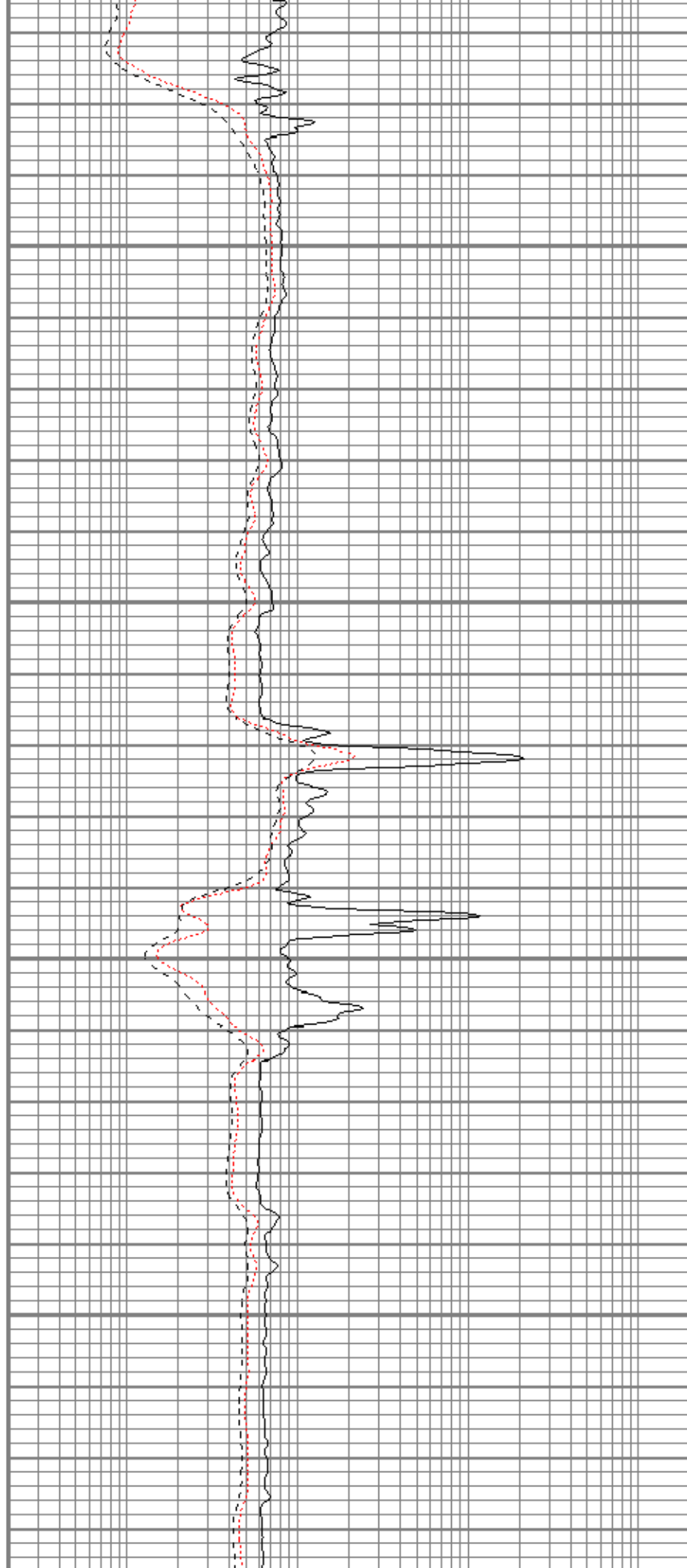


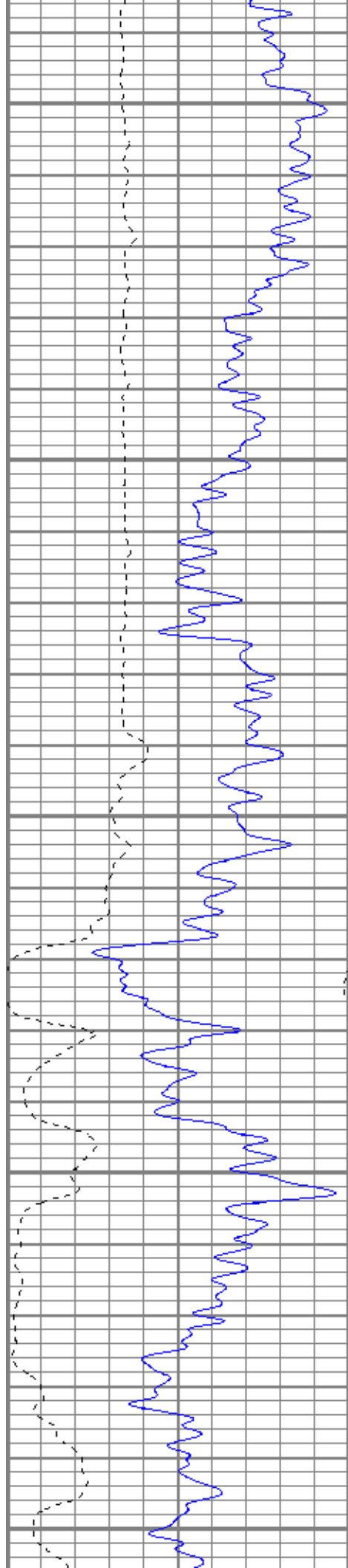
2050

2100

2150

2200





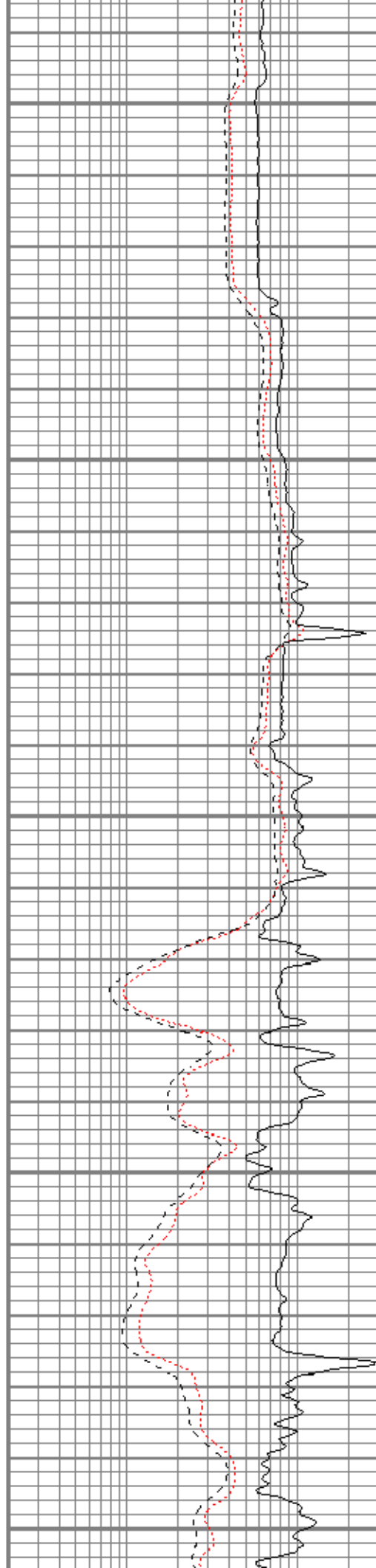
2250

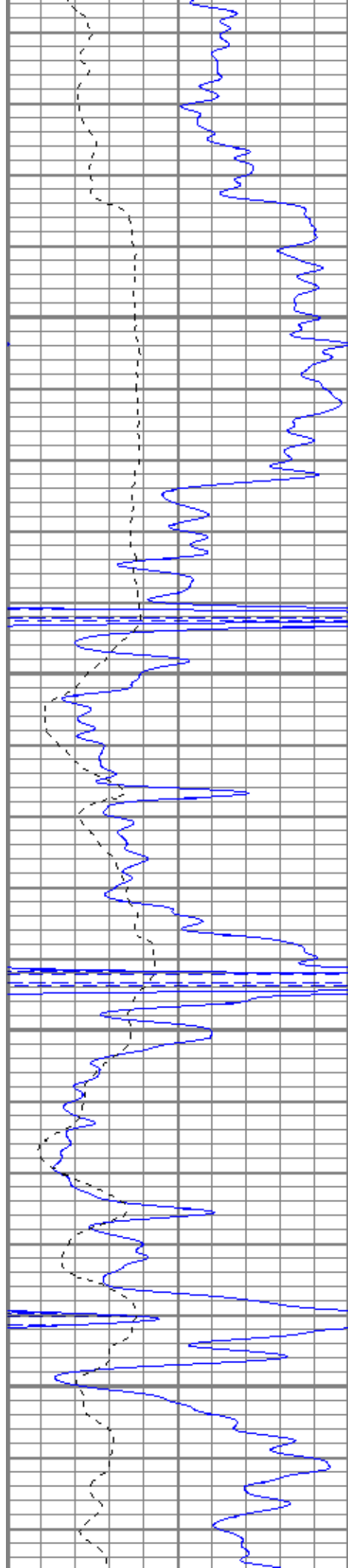
2300

2350

2400

2450



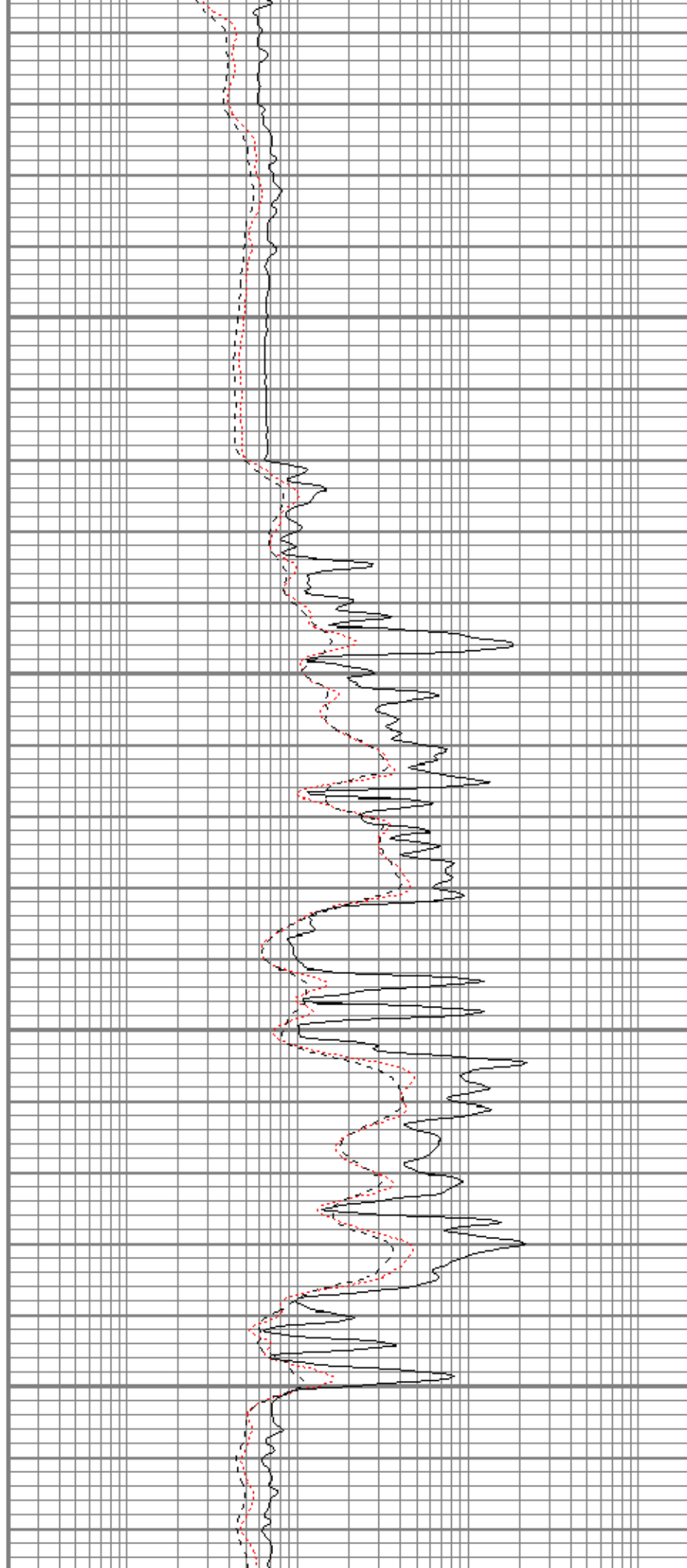


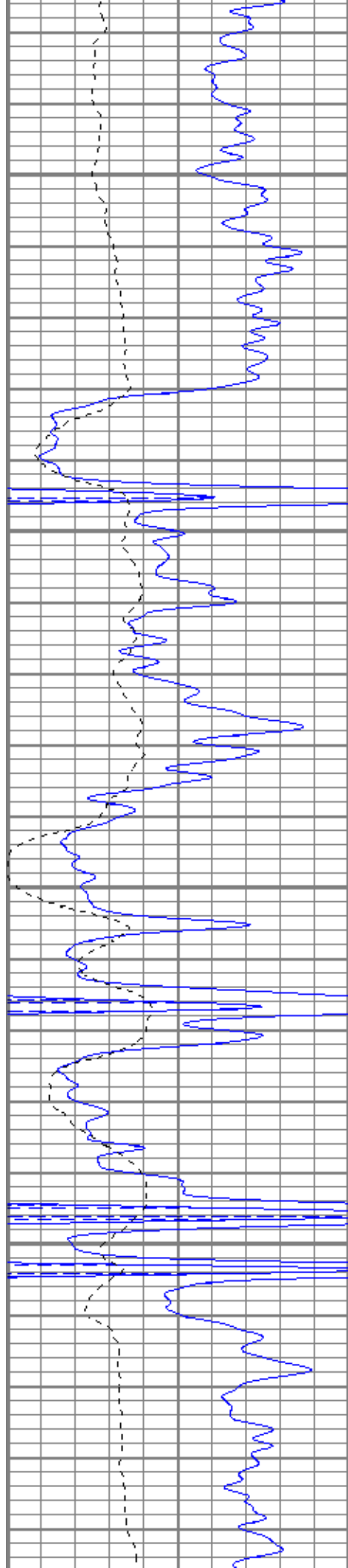
2500

2550

2600

2650



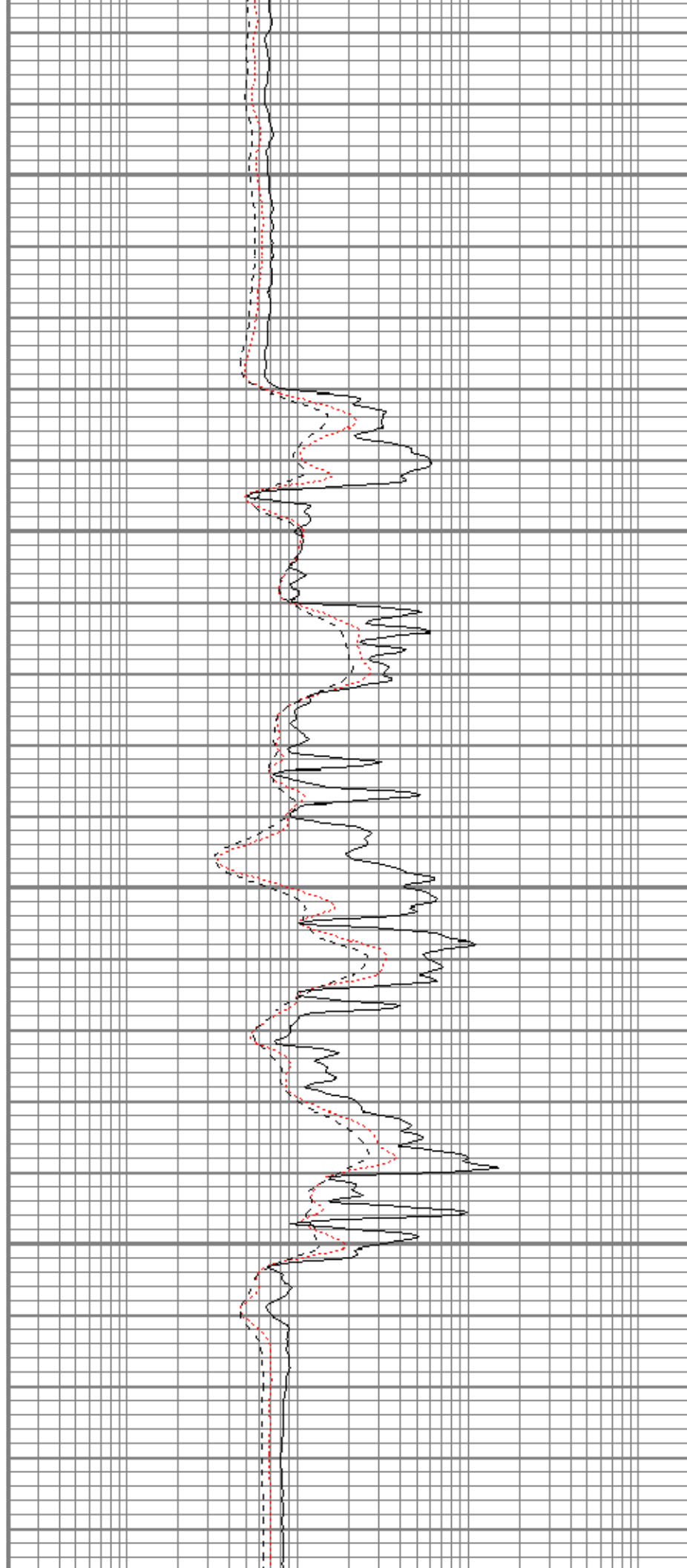


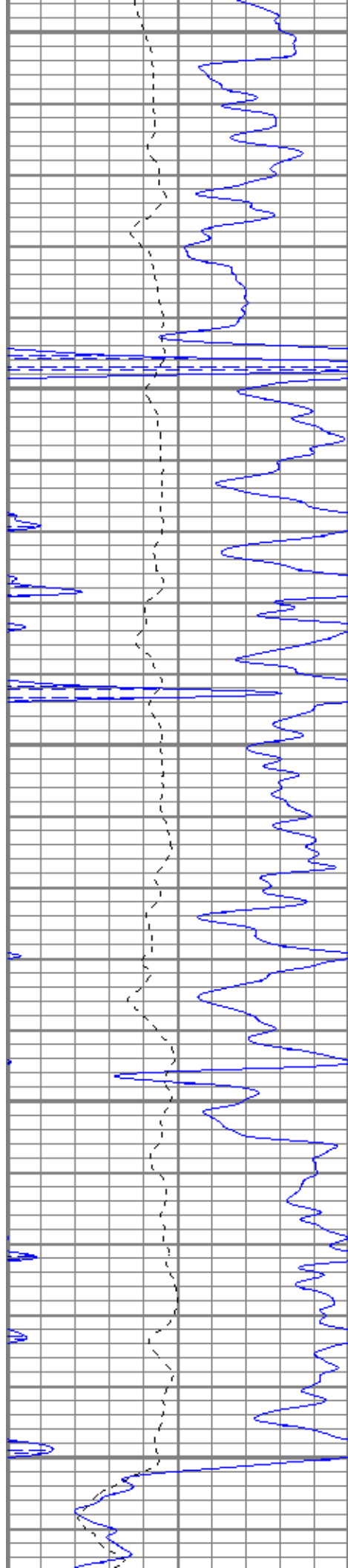
2700

2750

2800

2850





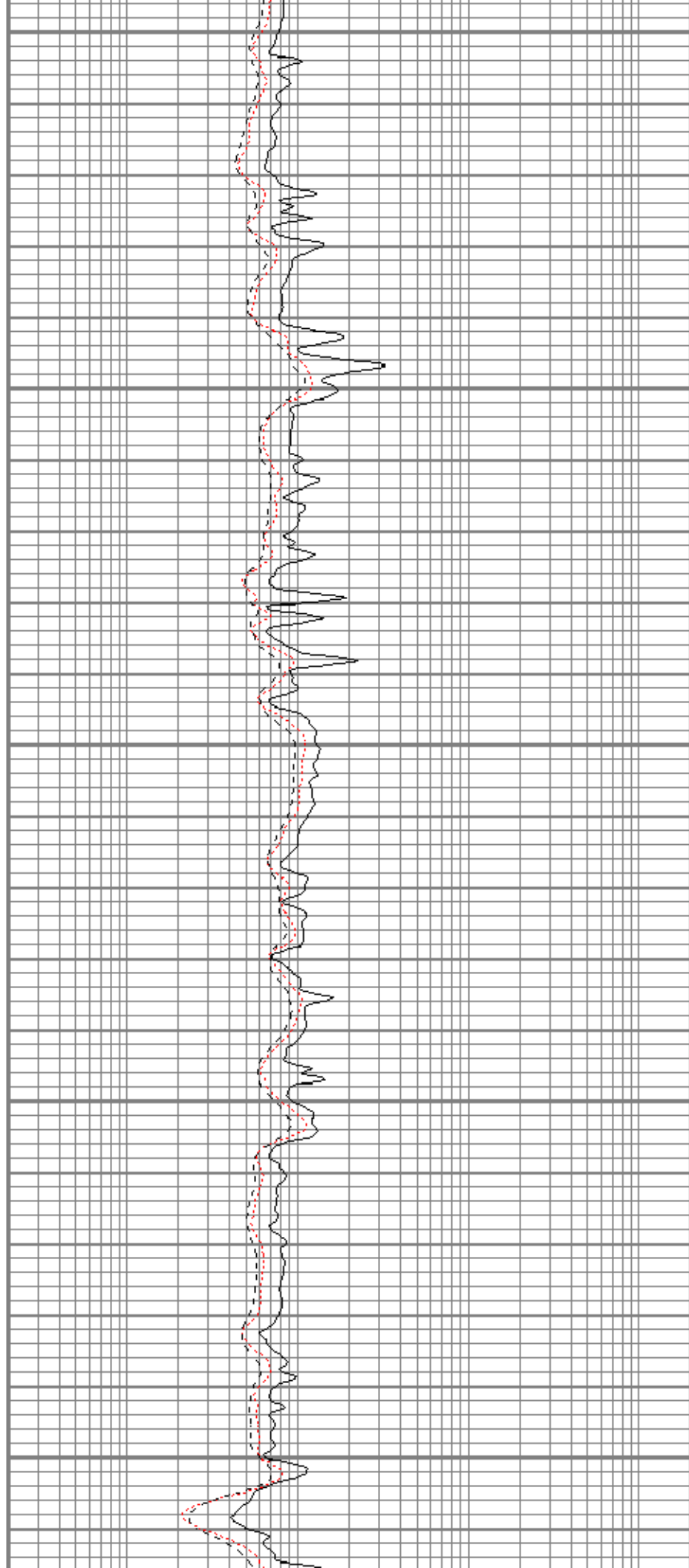
2900

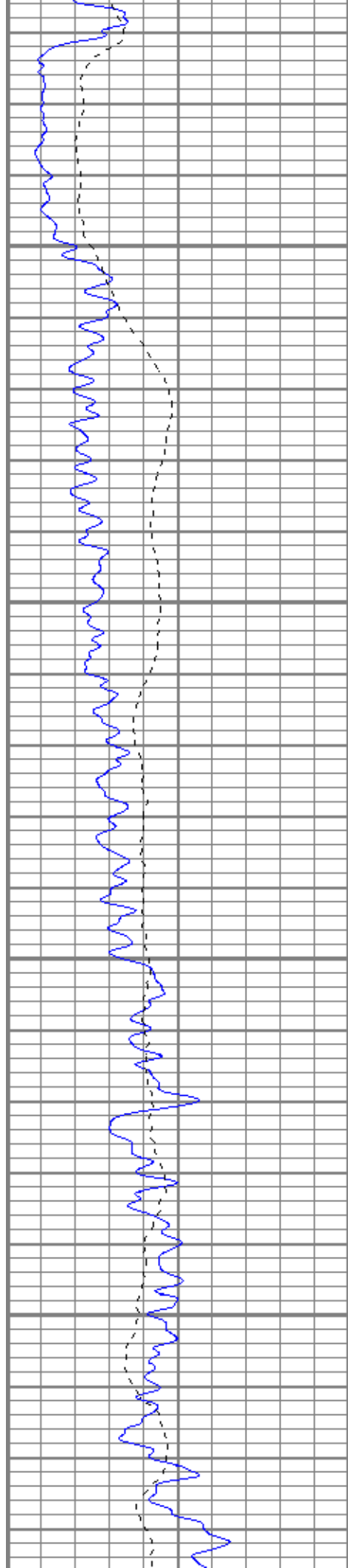
2950

3000

3050

3100



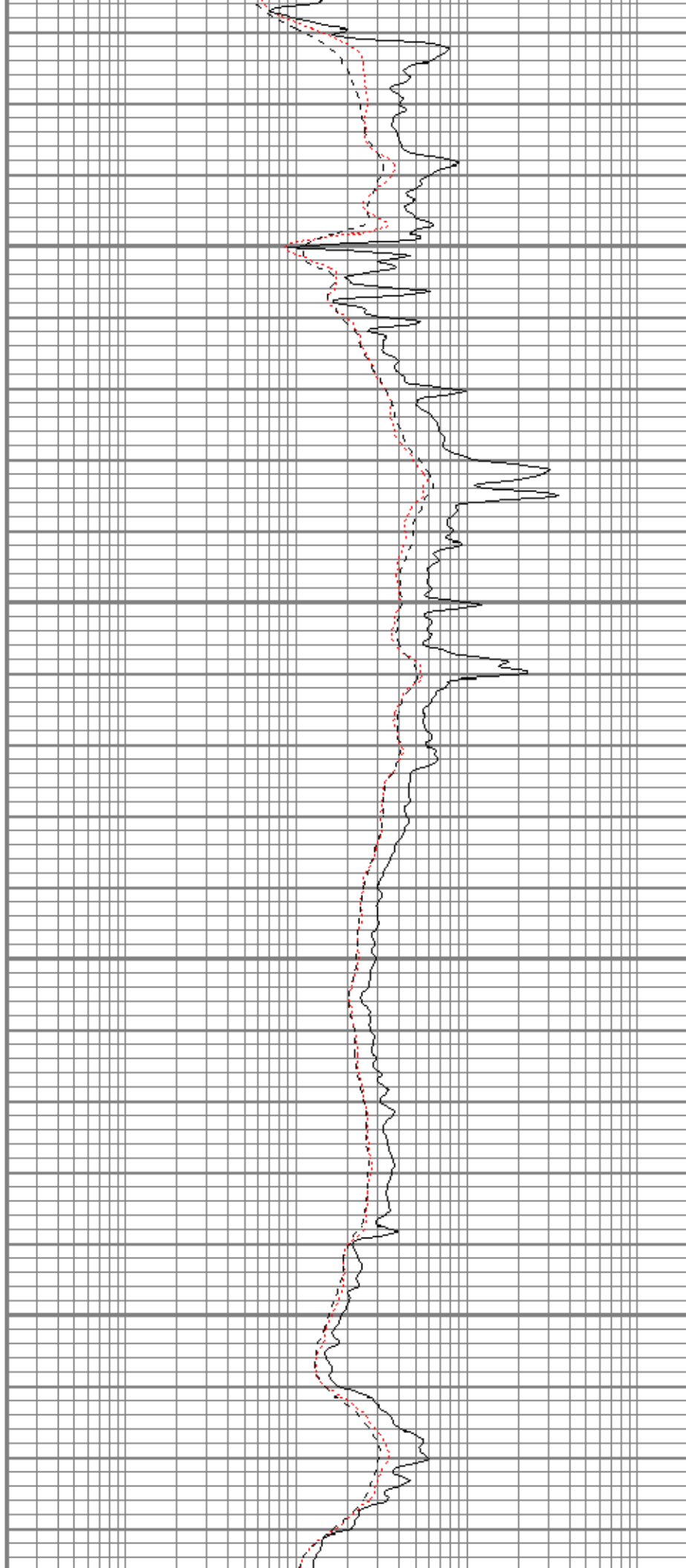


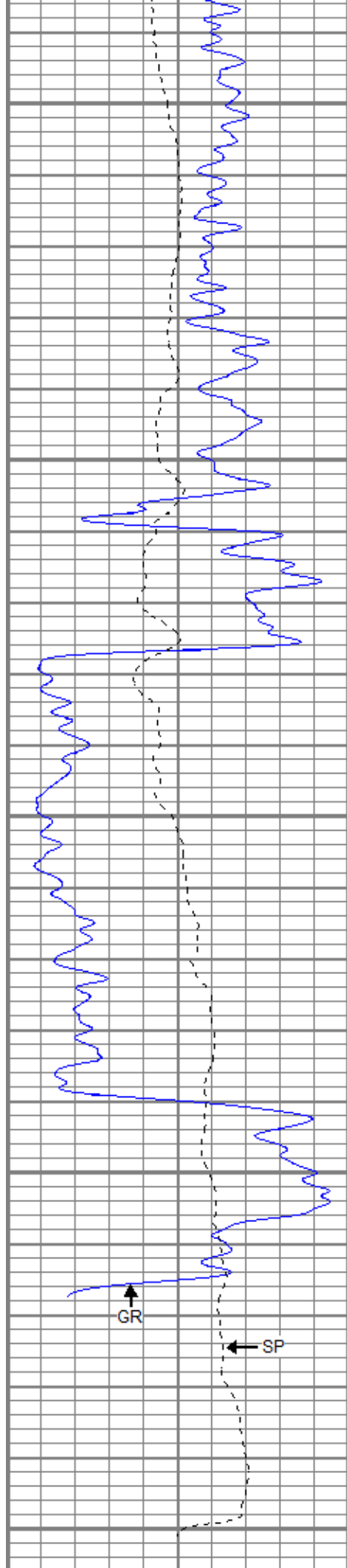
3150

3200

3250

3300





3350

3400

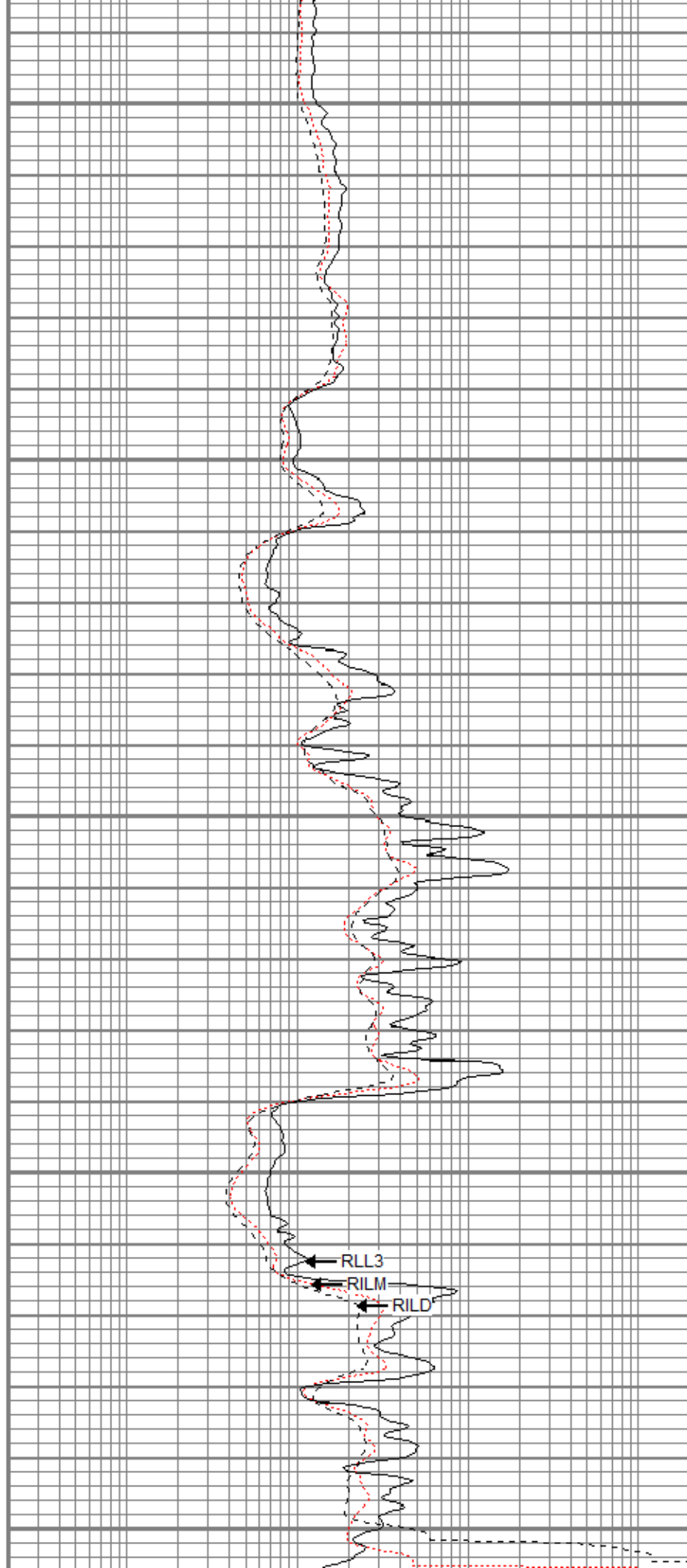
3450

3500

3550

GR

SP



RLL3

RILM

RILD

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

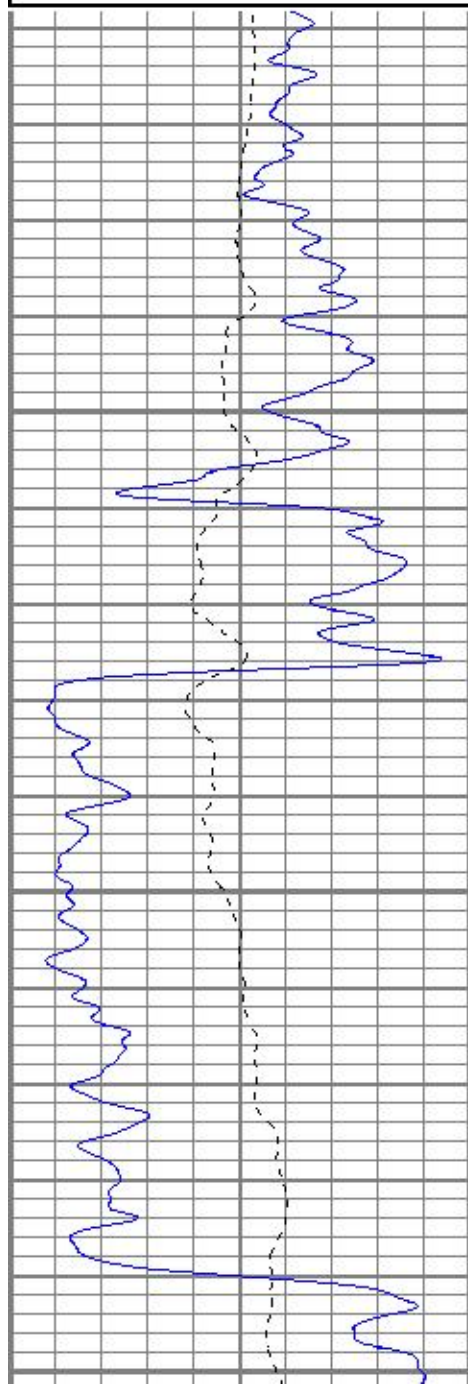


REPEAT SECTION

Database File trlfj4oh.db
 Dataset Pathname pass1.2
 Presentation Format kdil
 Dataset Creation Tue Oct 17 13:27:37 2017
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

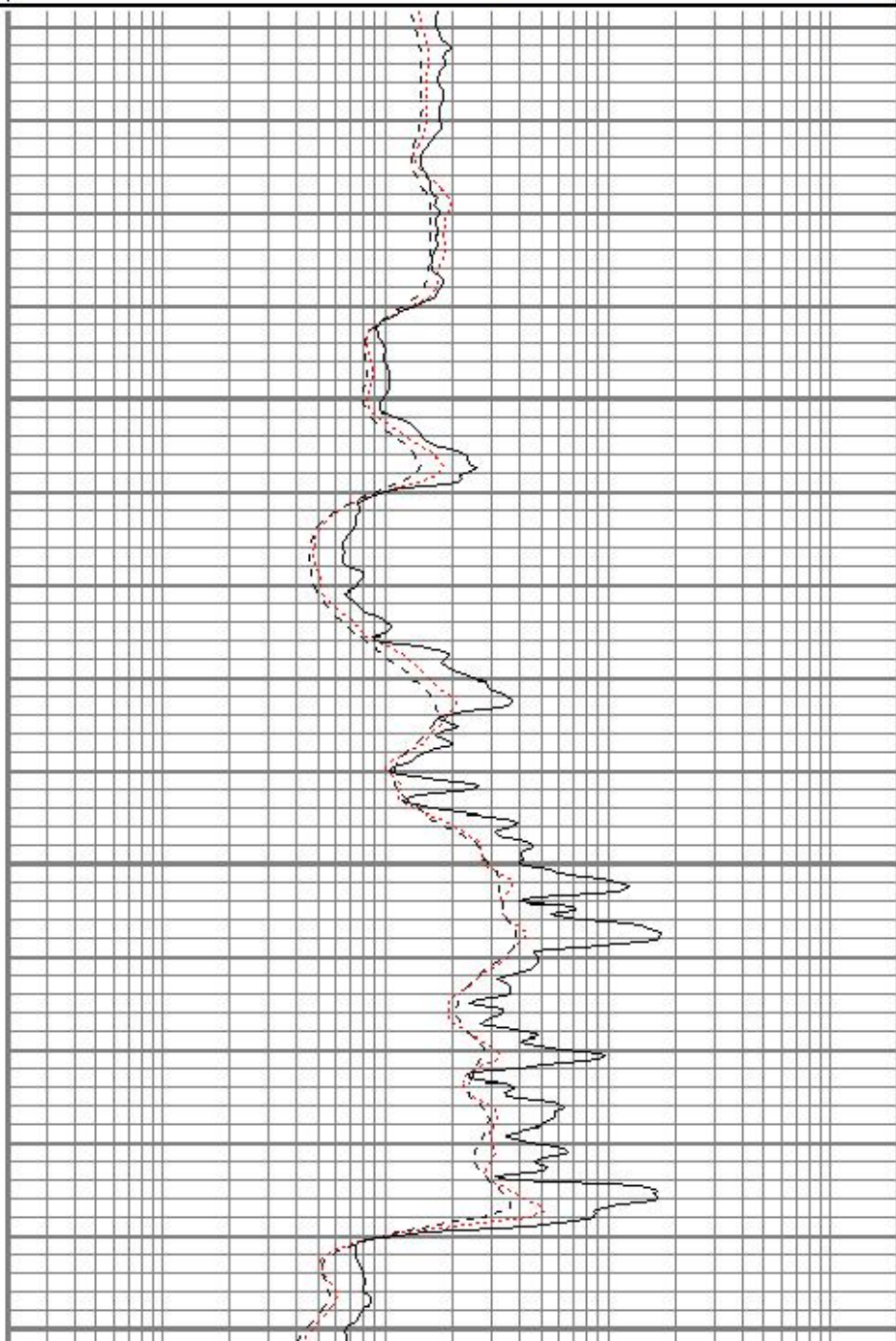
0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

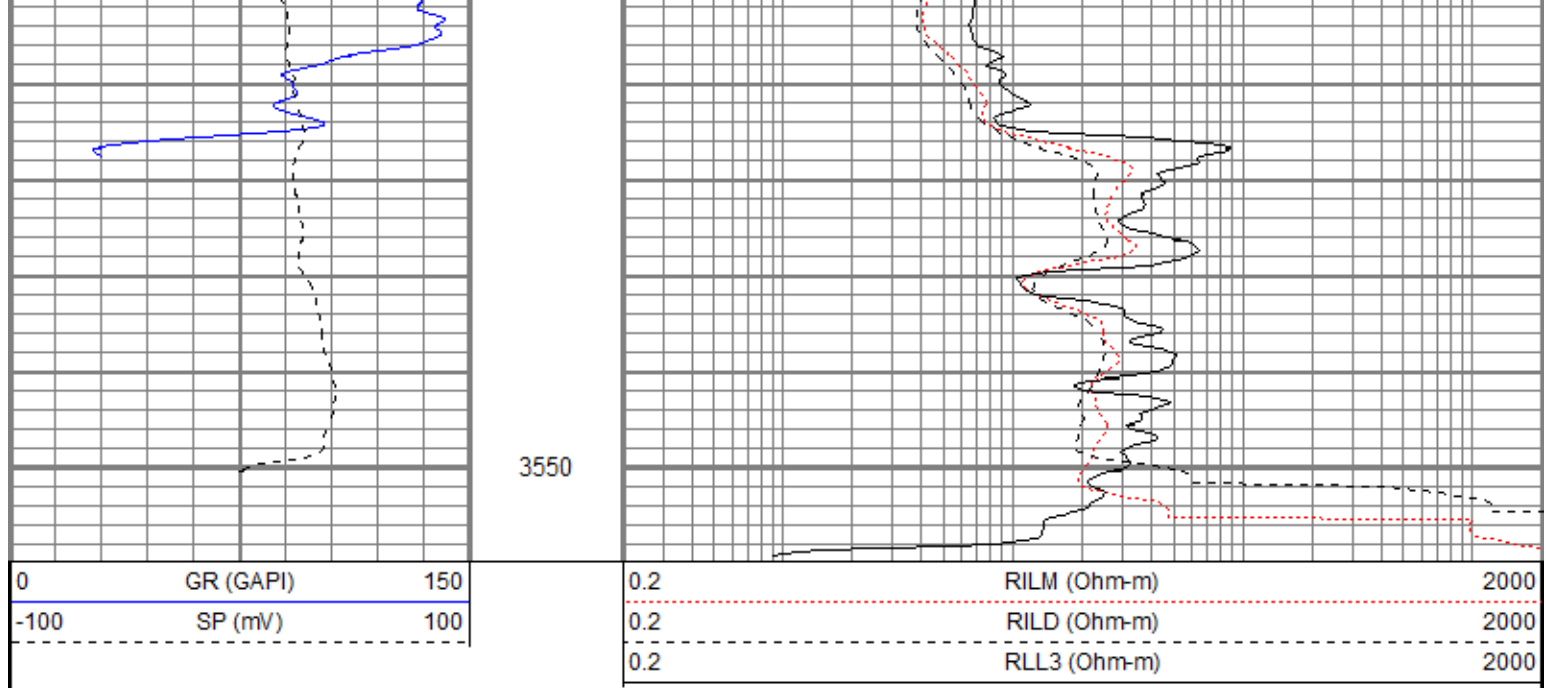


3400

3450

3500

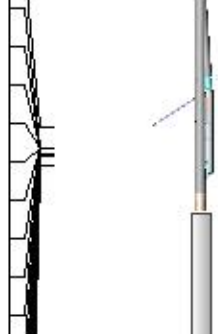
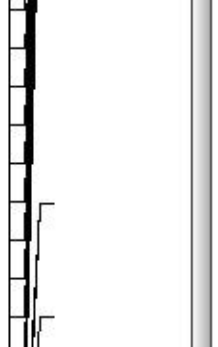
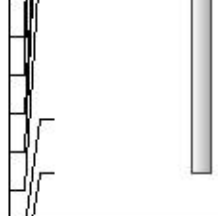




Calibration Report										
Database File	trlfj4oh.db									
Dataset Pathname	pass2.1									
Dataset Creation	Tue Oct 17 13:17:49 2017									
Dual Induction Calibration Report										
Serial-Model:			5375-G							
Surface Cal Performed:			Tue Aug 15 10:21:23 2017							
Downhole Cal Performed:			Tue Aug 15 10:22:14 2017							
After Survey Verification Performed:			Tue Aug 15 10:22:14 2017							
Surface Calibration										
		Readings					References		Results	
Loop:	Air	Loop		Air	Loop		m	b		
Deep	-0.003	0.635	V	0.000	350.000	mmho/m	548.445	1.715		
Medium	-0.001	0.717	V	0.000	400.000	mmho/m	556.583	0.684		
Internal:	Zero	Cal		Zero	Cal		m	b		
Deep	-0.003	0.635	V	0.000	350.000	mmho/m	548.268	1.663		
Medium	-0.001	0.718	V	0.000	400.000	mmho/m	556.234	0.694		
Downhole Calibration										
		Readings					References		Results	
Internal:	Zero	Cal		Zero	Cal		m	b		
Deep	0.131	349.928	mmho/m	0.052	350.165	mmho/m	1.001	-0.079		
Medium	-0.084	400.178	mmho/m	-0.010	400.241	mmho/m	1.000	0.073		
Shallow	2.425	0.005	V	500.000	2.000	Ohm-m	205.838	0.894		
After Survey Verification										
		Readings					Targets		Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'		
Deep	0.000	0.000	mmho/m	0.131	349.928	mmho/m	1.001	-0.079		
Medium	0.000	0.000	mmho/m	-0.084	400.178	mmho/m	1.000	0.073		
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000		

Neutron Calibration Report					
Serial Number:	2017				
Tool Model:	lithgearhart				
Performed:	(Not Performed)				
Calibrator Value:	1	NAPI			
Calibrator Reading:	1	cps			
Sensitivity:	1	NAPI/cps			
Temperature Calibration Report					
Serial Number:	WithMC				
Tool Model:	WMC				
Performed:	(Not Performed)				
	Reference		Reading		
Low Reference:	0.00	degF	0.00	degF	
High Reference:	1.00	degF	1.00	degF	
Gain:	1.00				
Offset:	0.00				
Delta Spacing	1				
Inclinometer Calibration Report					
Performed:	Mon Aug 07 09:05:18 2017				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee
Gamma Ray Calibration Report					
Serial Number:	WithMC				
Tool Model:	WMC				
Performed:	(Not Performed)				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	1.0000	GAPI/cps			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.07		CHD-STD	0.50	1.69	1.00
ACCY	38.91		ADT-WMC (WithMC)	4.58	3.50	120.00
ACCX	38.91		Admyr Telemetry With Mudcell			
SSTAT	38.49					
PSTAT	37.66					
ASTAT	37.66					
GRD	36.82		NEU-lithgearhart (2017)	5.65	3.50	85.00
TEMP	36.82		gearhart for litho			
NEU	33.46					
LStat	24.30					

Tool Joint	Depth (ft)	Tool Joint	Weight (lb)	Length (ft)	Weight (lb)	Length (ft)
LS8	23.64		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS7	23.64					
LS6	23.64					
LS5	23.64					
LS4	23.64					
LS3	23.64					
LS2	23.64					
LS1	23.64					
LSV	23.64					
LSD	23.62					
SSV	23.43		DIL-G (5375) Gearhart	21.47	4.00	345.00
SS8	23.43					
SS7	23.43					
SS6	23.43					
SS5	23.43					
SS4	23.43					
SS3	23.43					
SS2	23.43					
SS1	23.43					
DCAL	23.37					
SSD	23.04					
SP	10.60					
CILD	10.60					
CILM	6.89					
RLL3	1.70	Dataset: trlf4oh.db: field/well/run1/pass2.1				
TR_Mon	0.00	Total length: 41.49 ft Total weight: 791.00 lb O.D.: 4.00 in				