



DUAL INDUCTION LOG

Company Taos Resources Operating Company LLC

Well LFJ #5

Field Maddix North

County Cowley

State Kansas

Location:

API #: 15 035 24671

1990' FSL & 665' FWL

SEC 34 TWP 32S RGE 5E

Permanent Datum Ground Level Elevation 1269'
Log Measured From KB 11' AGL
Drilling Measured From KB

Other Services
CDNL
BHC
ML
Elevation
K.B. 1280'
D.F. 1279'
G.L. 1269'

Date 6-10-17

Run Number One

Depth Driller 3577'

Depth Logger 3576'

Bottom Logged Interval 3575'

Top Log Interval 350'

Casing Driller 8 5/8" @ 233'

Casing Logger 233'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.5/4.4

pH / Fluid Loss 9/9.2

Source of Sample Pit

Rm @ Meas. Temp 1.5@90degf

Rmf @ Meas. Temp 1.2@90degf

Rmc @ Meas. Temp 1.92@90degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.22@111degf

Time Circulation Stopped 12:30 p.m.

Time Logger on Bottom 2:45 p.m.

Maximum Recorded Temperature 111degf

Equipment Number T127

Location Hays, KS

Recorded By C. Patterson

Witnessed By Mr. Mike Pressnall Mr. Ray Dorothy

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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.

Comments

East of Winfield to 151st rd., 2 south, 1/2 east, north into

Thank you for using Gemini Wireline
785-625-1182



MAIN PASS

Database File taoslj#5on.db
Dataset Pathname pass2.1
Presentation Format kdillinn
Dataset Creation Sat Jun 10 16:27:21 2017
Charted by Depth in Feet scaled 1:600

0 GR (GAPI) 150

1000 CILD (mmho/m) 0

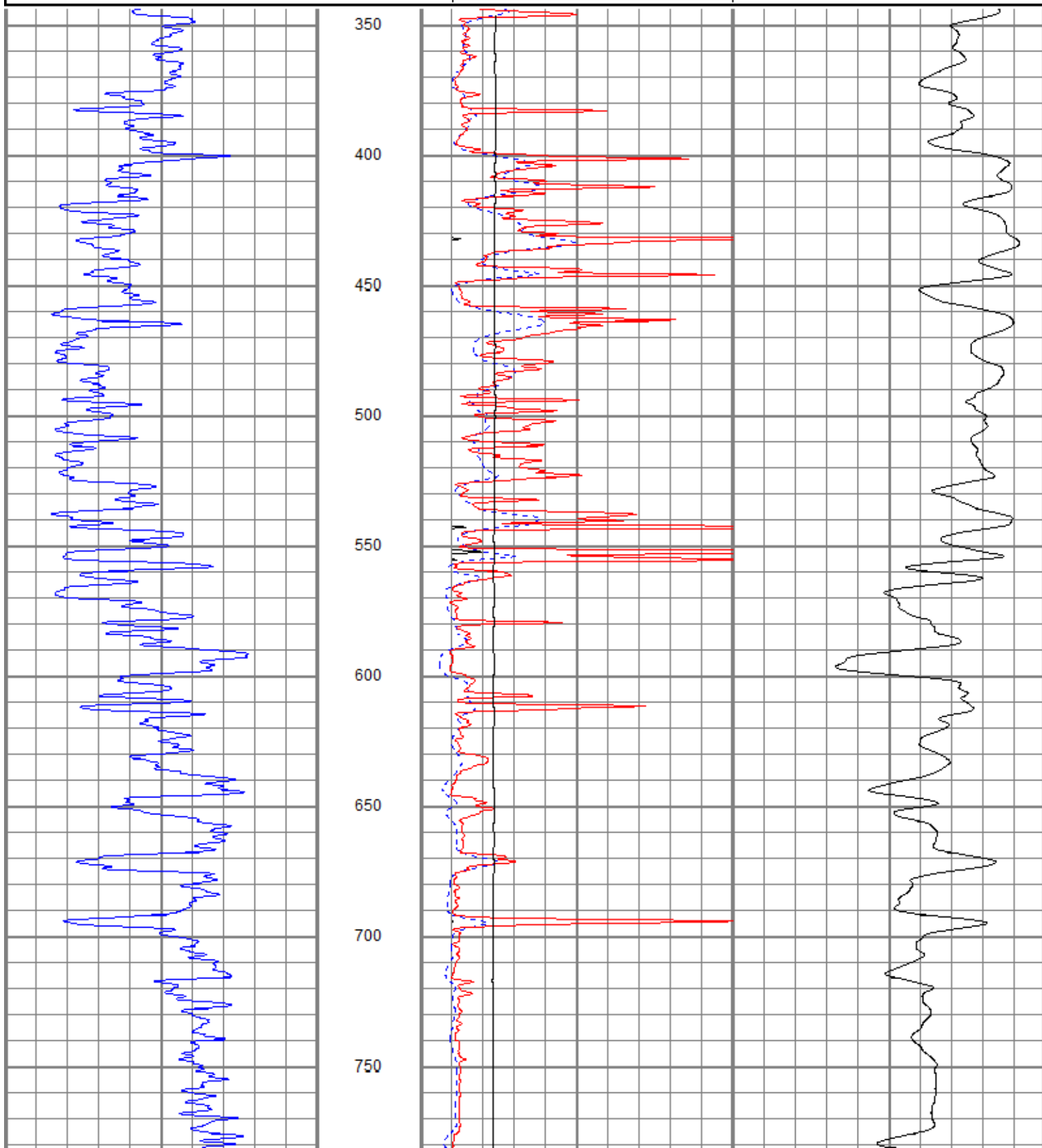
10000 LTEN (lb) 0

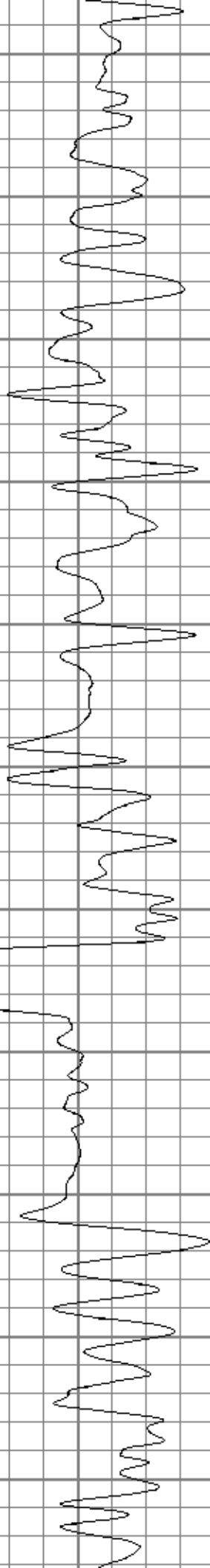
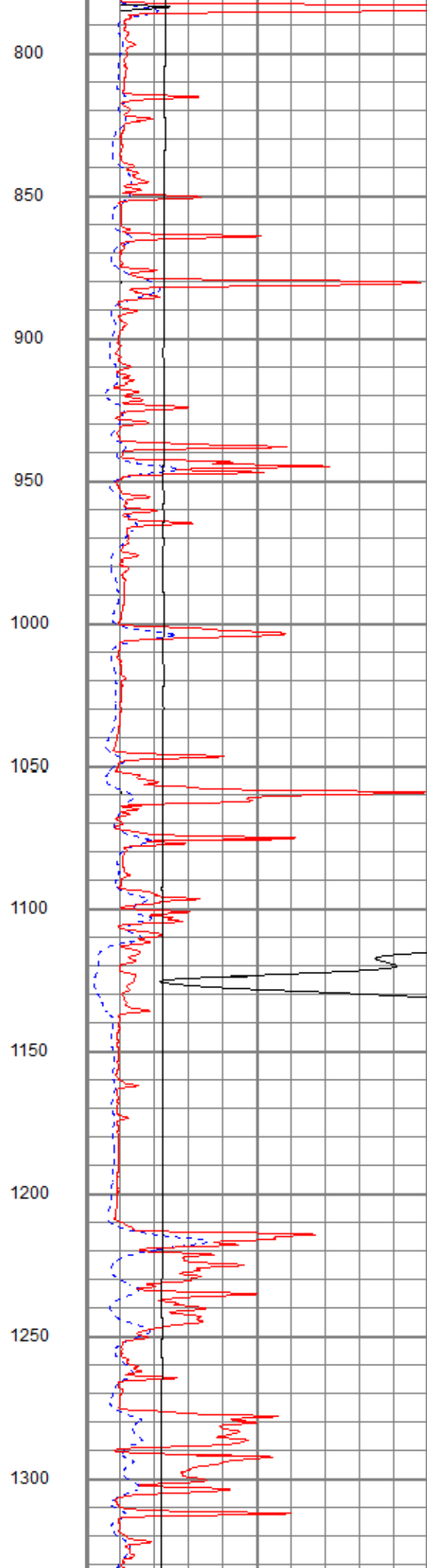
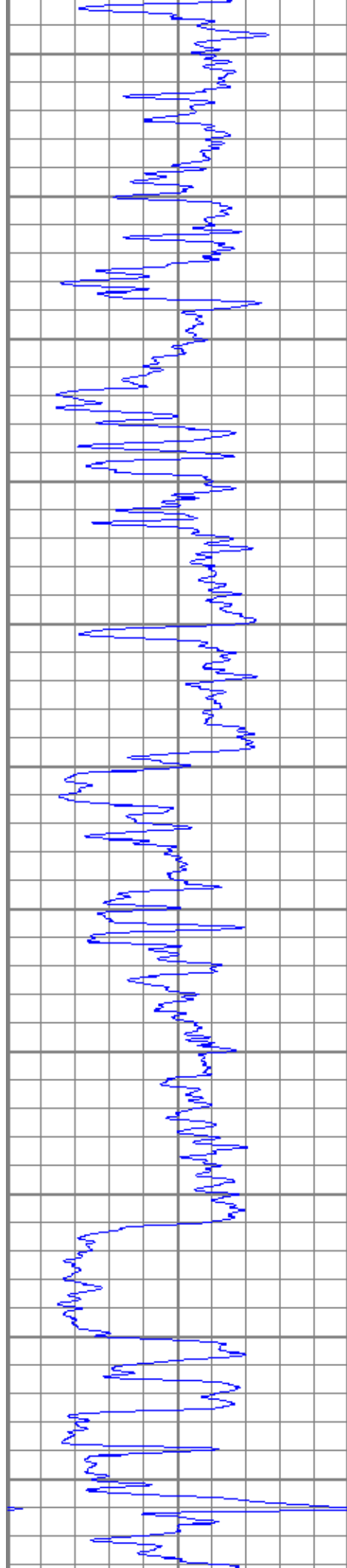
0 RILD (Ohm-m) 50

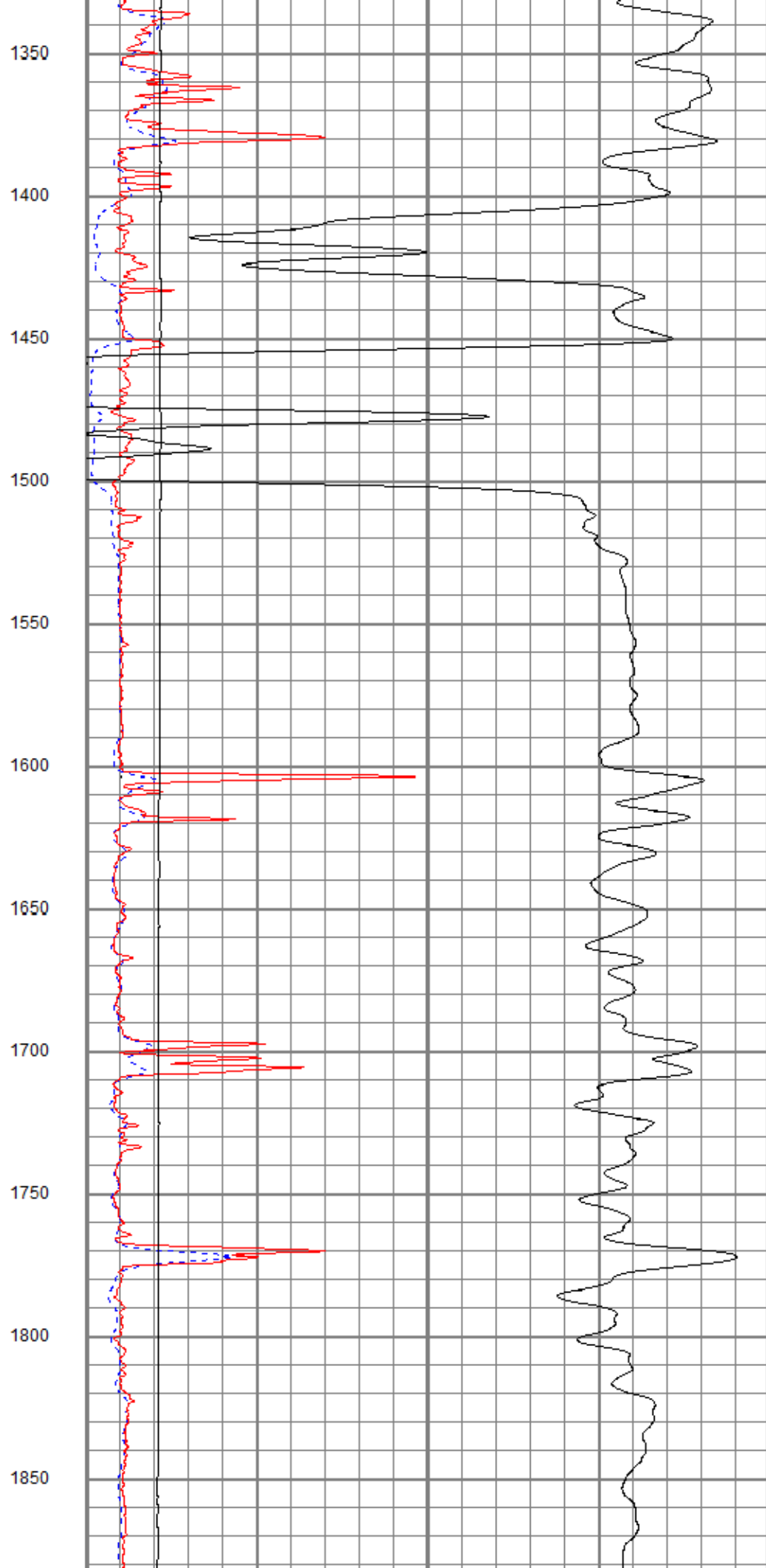
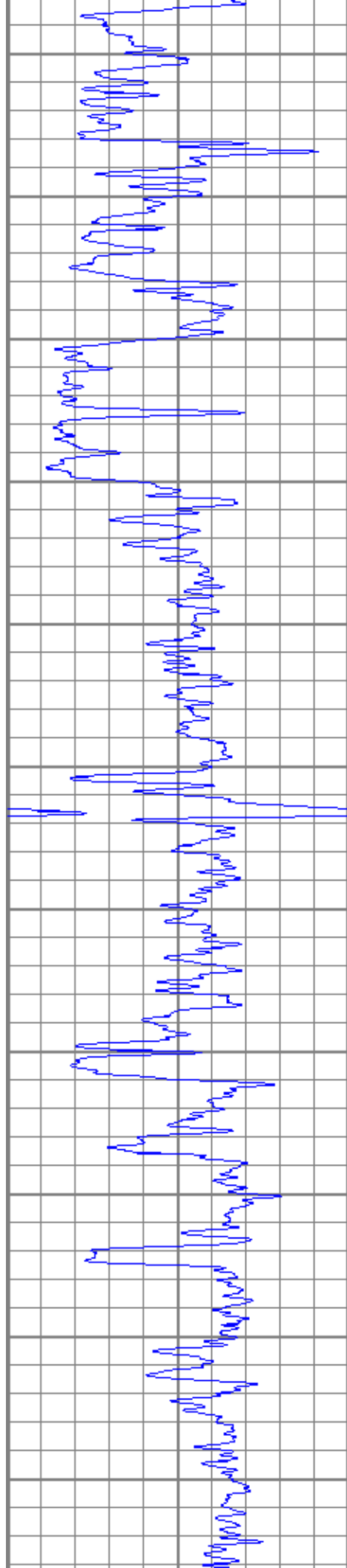
0 RLL3 (Ohm-m) 50

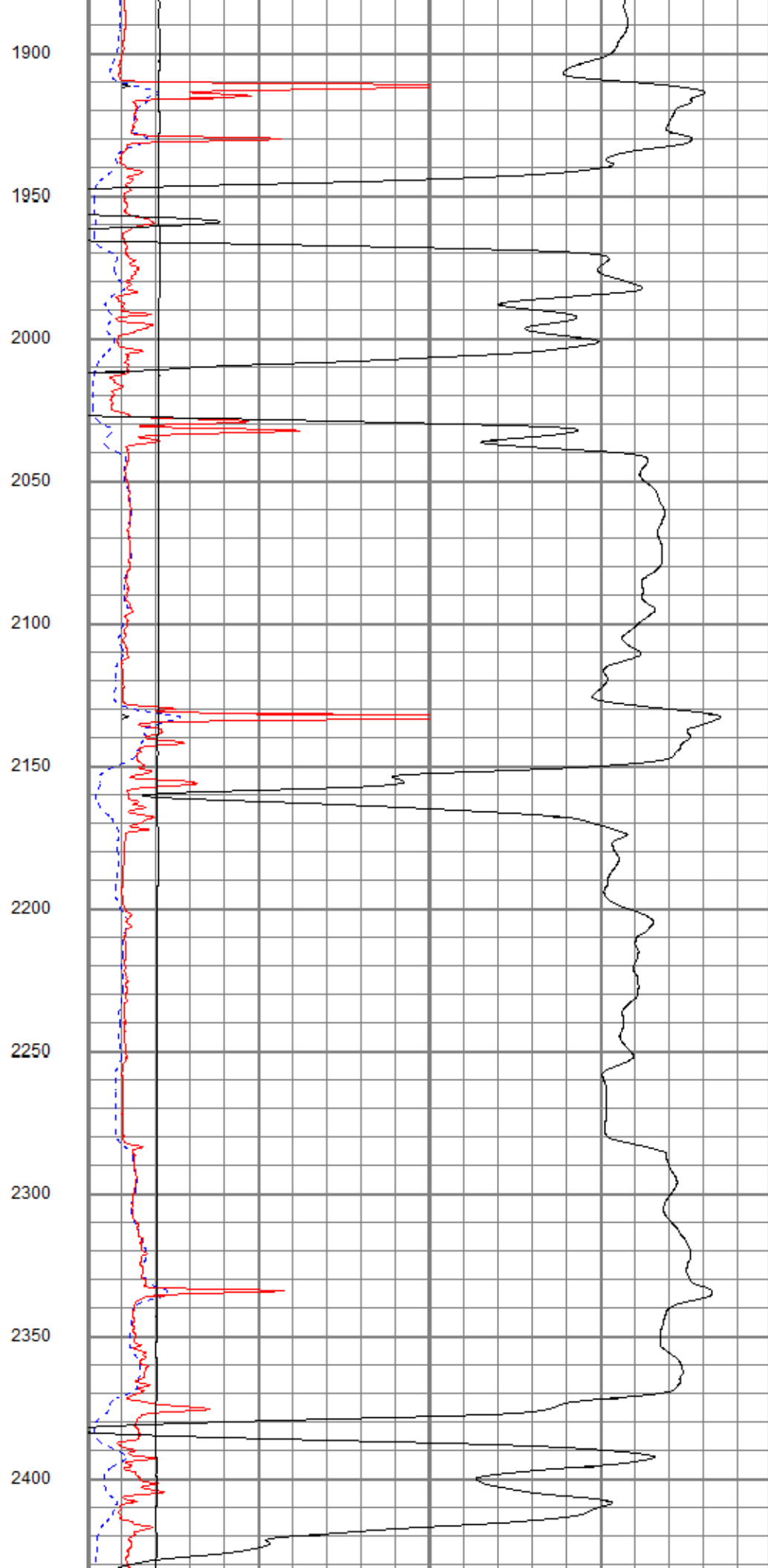
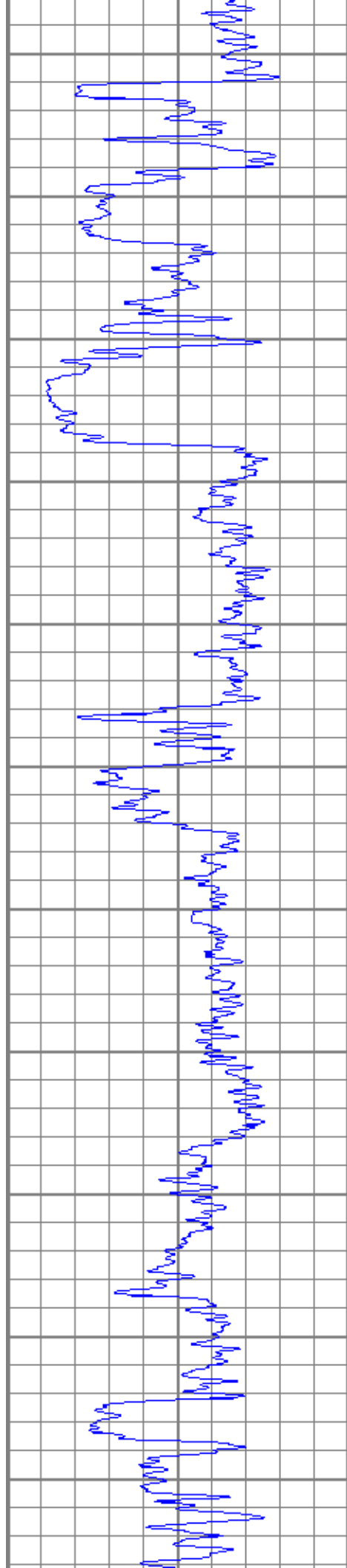
50 RILD x 10 (Ohm-m) 500

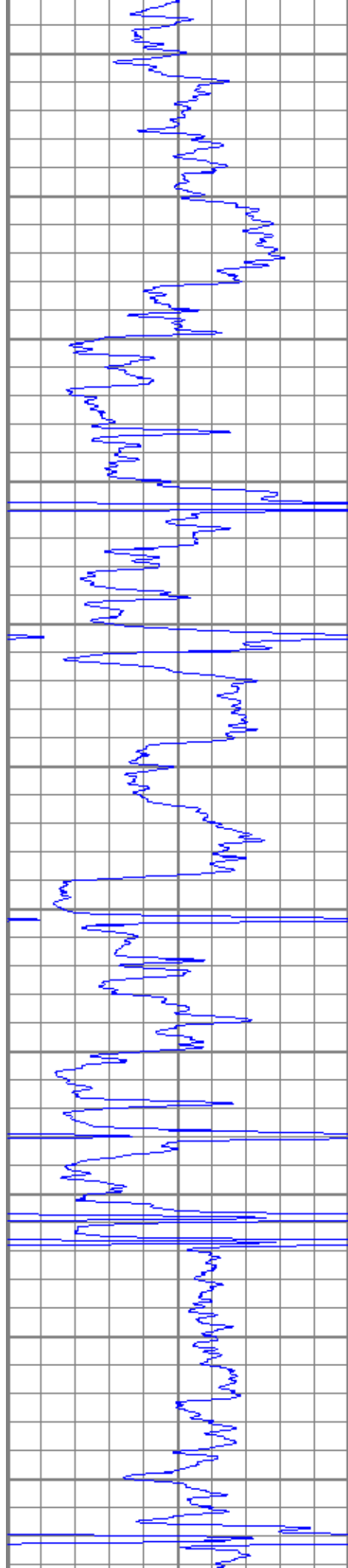
50 RLL3 x 10 (Ohm-m) 500











2450

2500

2550

2600

2650

2700

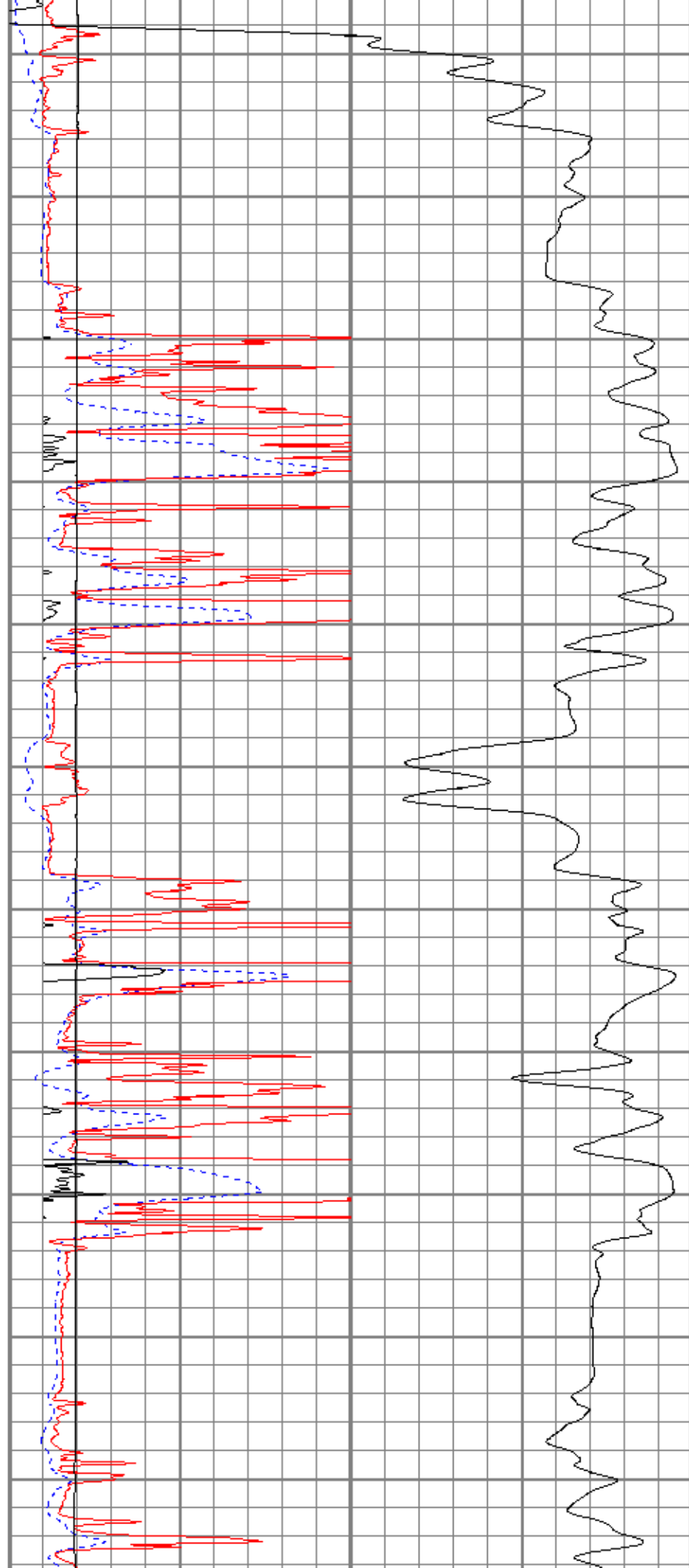
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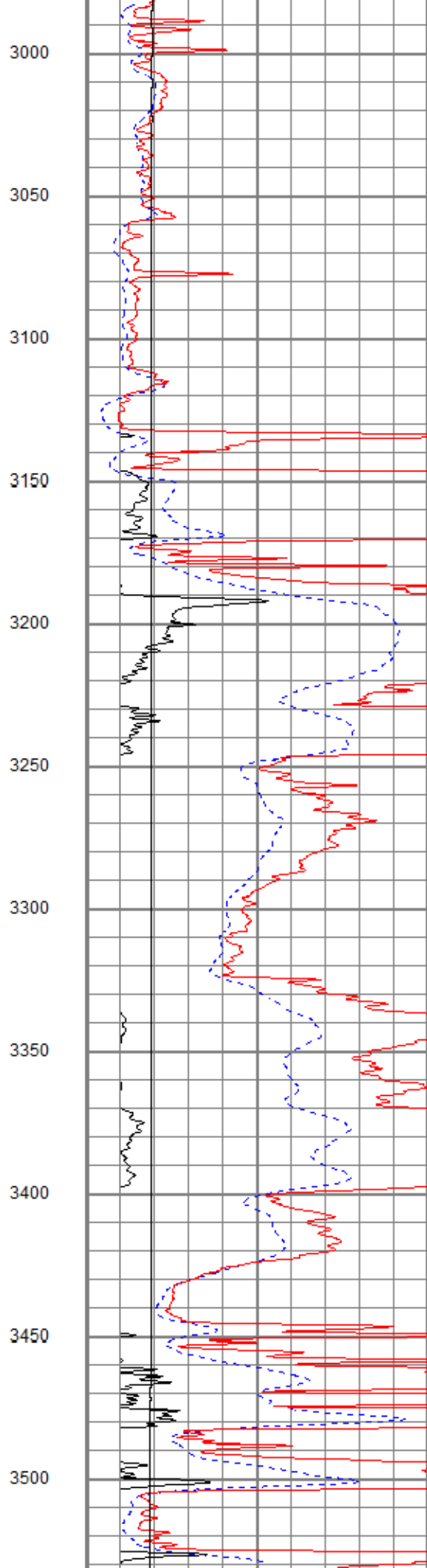
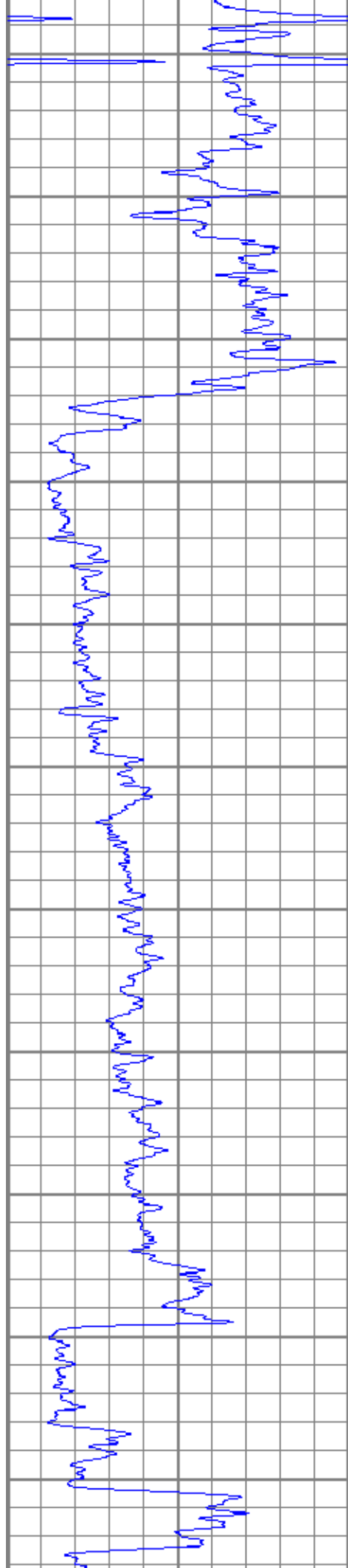
2800

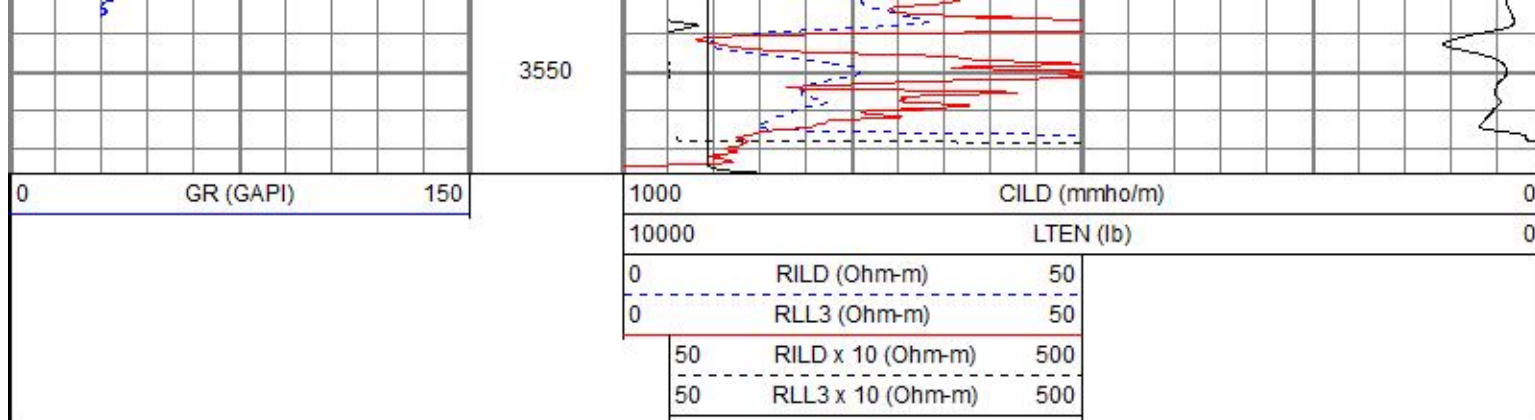
2850

2900

2950



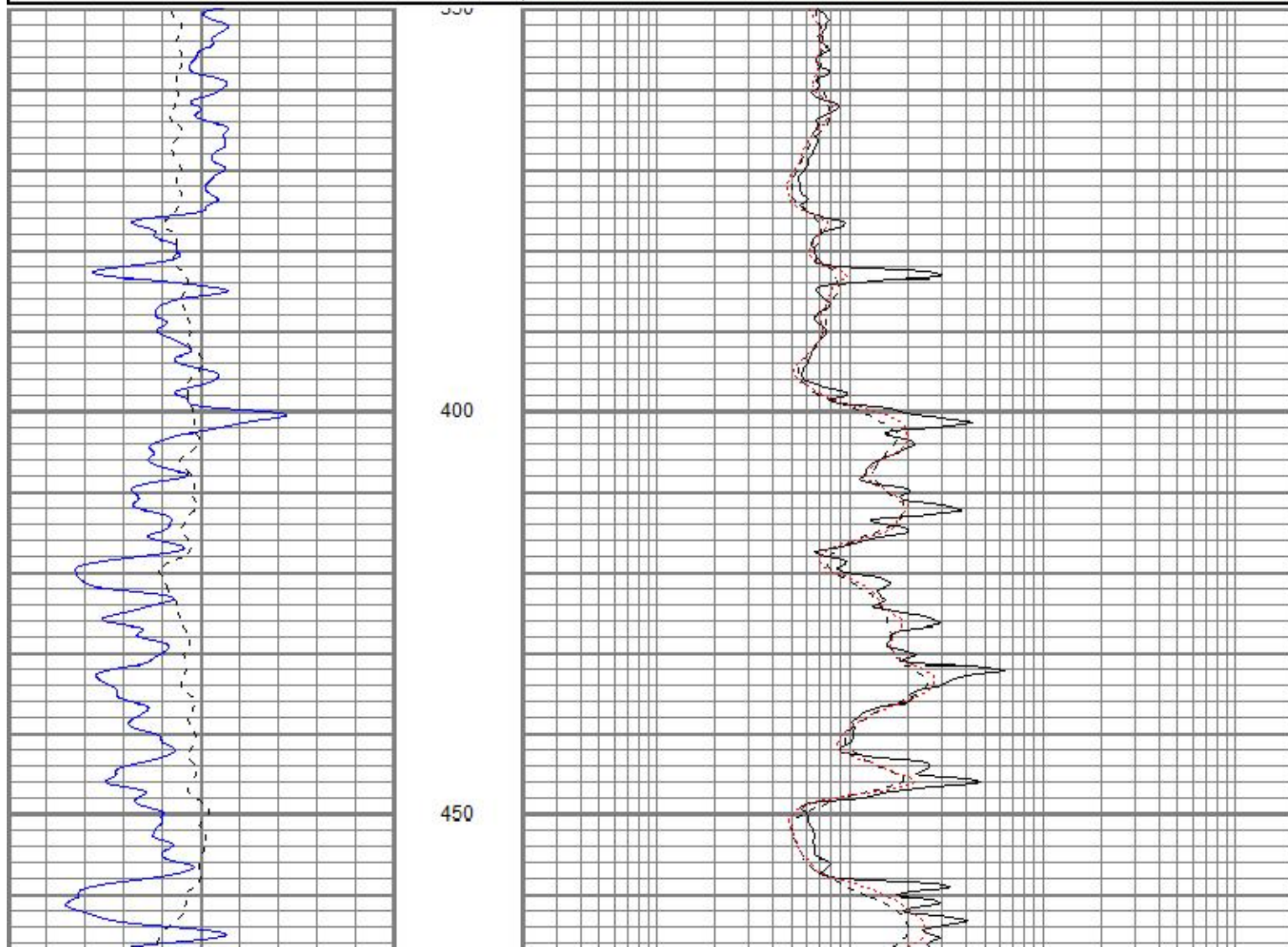


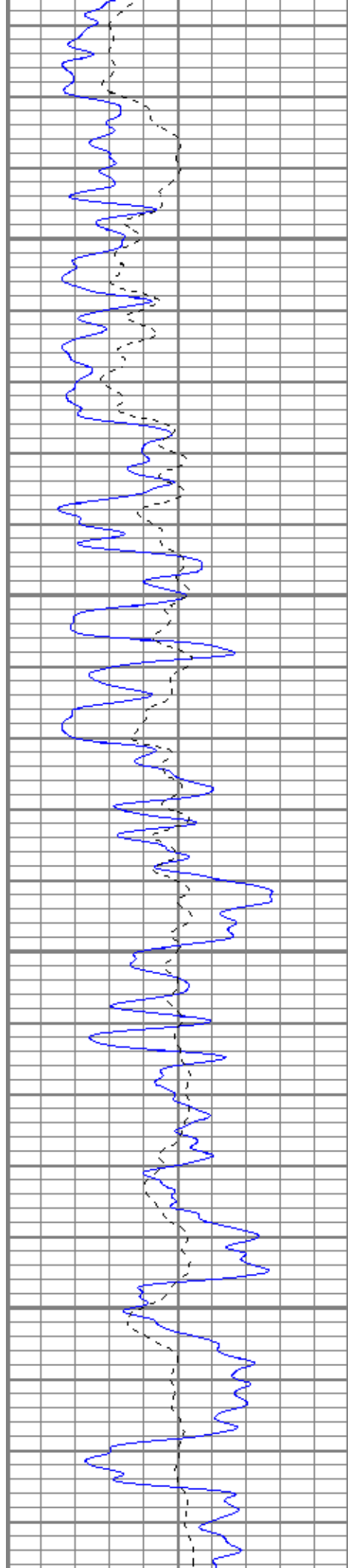


MAIN PASS

Database File taoslfj#5oh.db
 Dataset Pathname pass2.1
 Presentation Format kdil
 Dataset Creation Sat Jun 10 16:27:21 2017
 Charted by Depth in Feet scaled 1:240

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



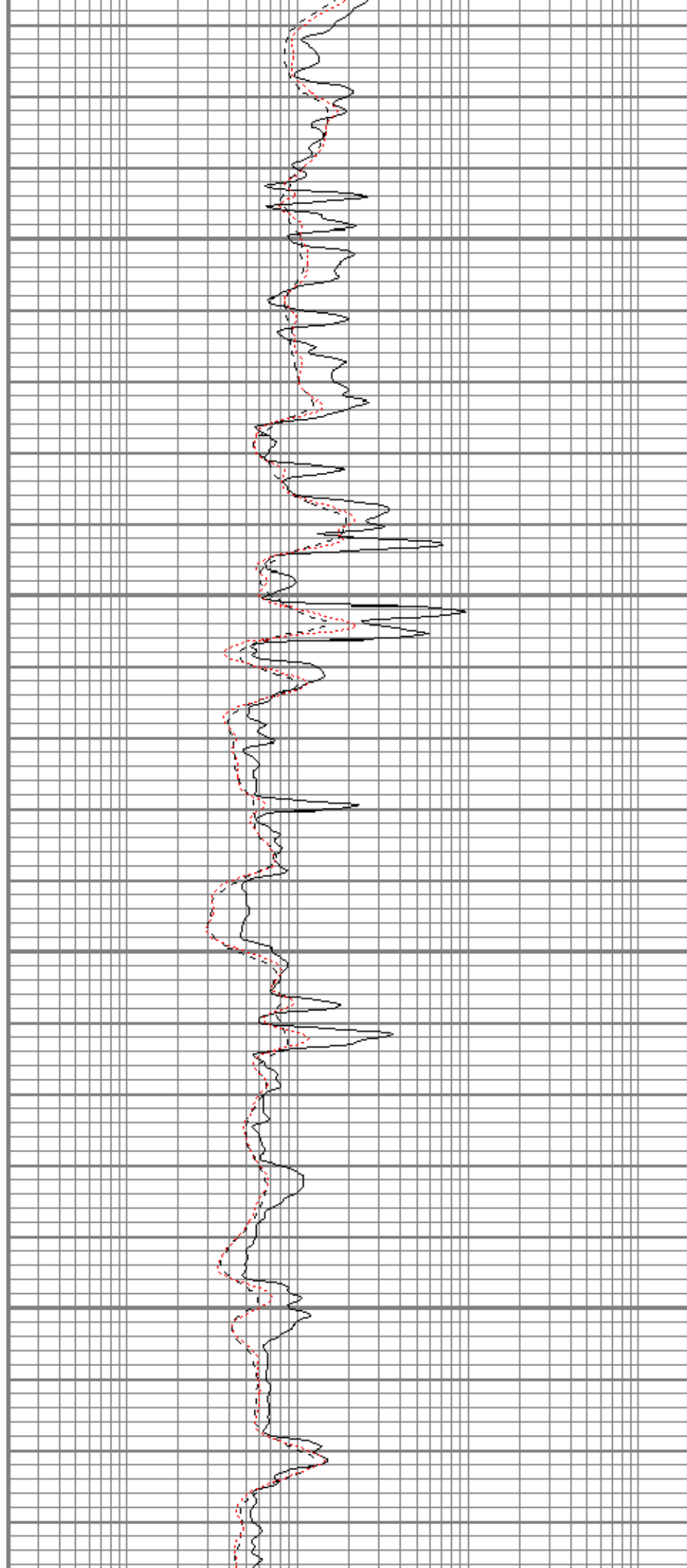


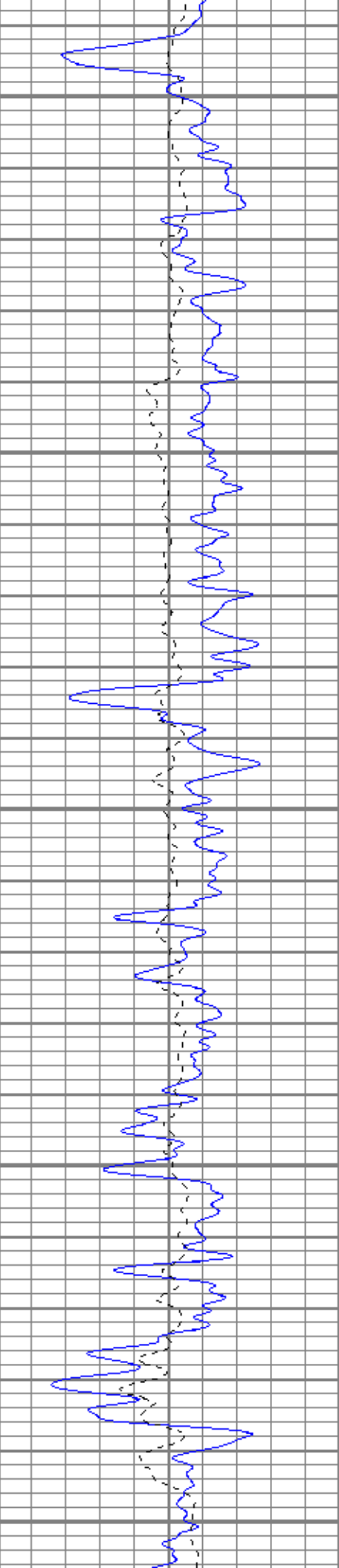
500

550

600

650





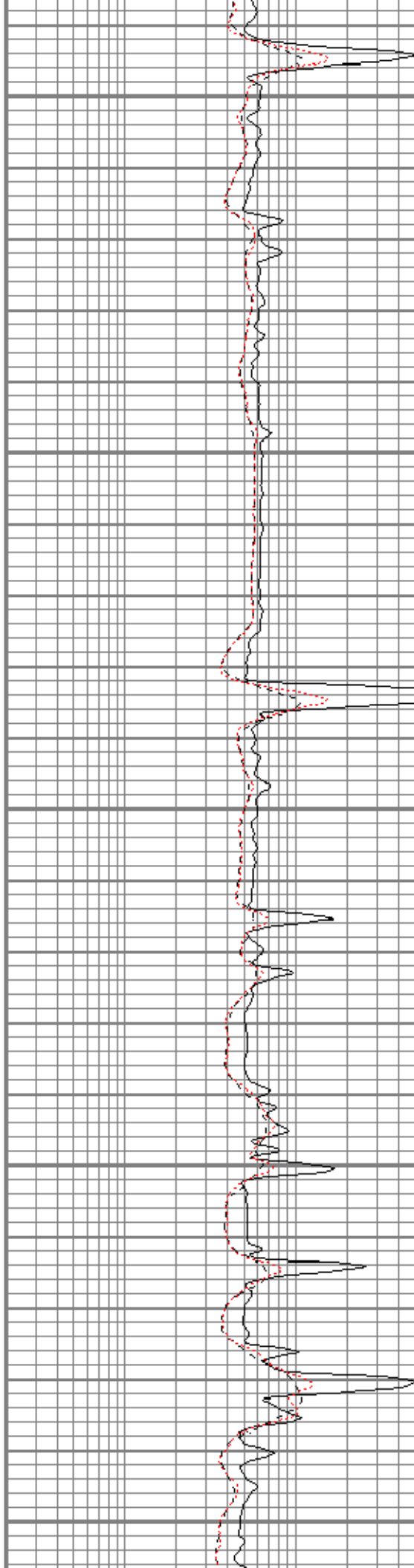
700

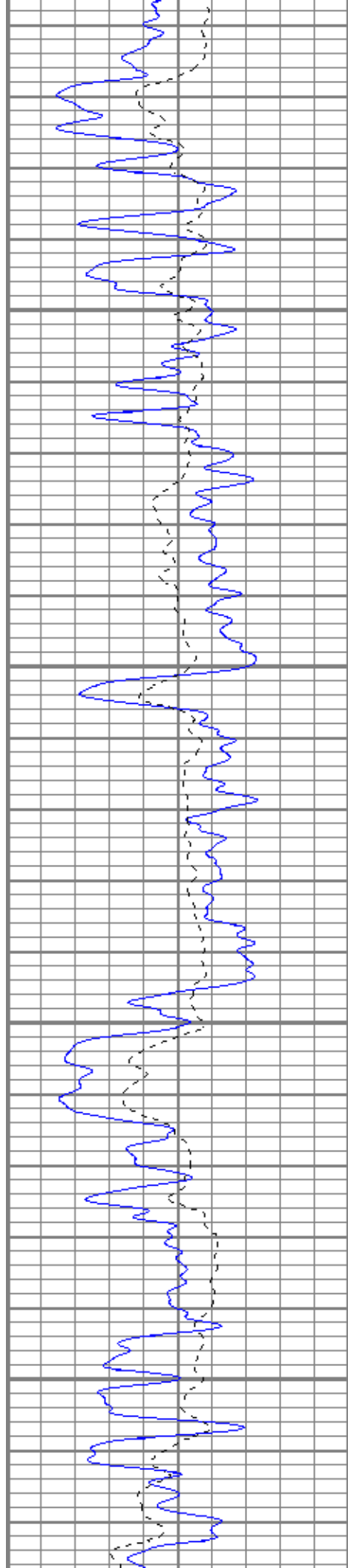
750

800

850

900



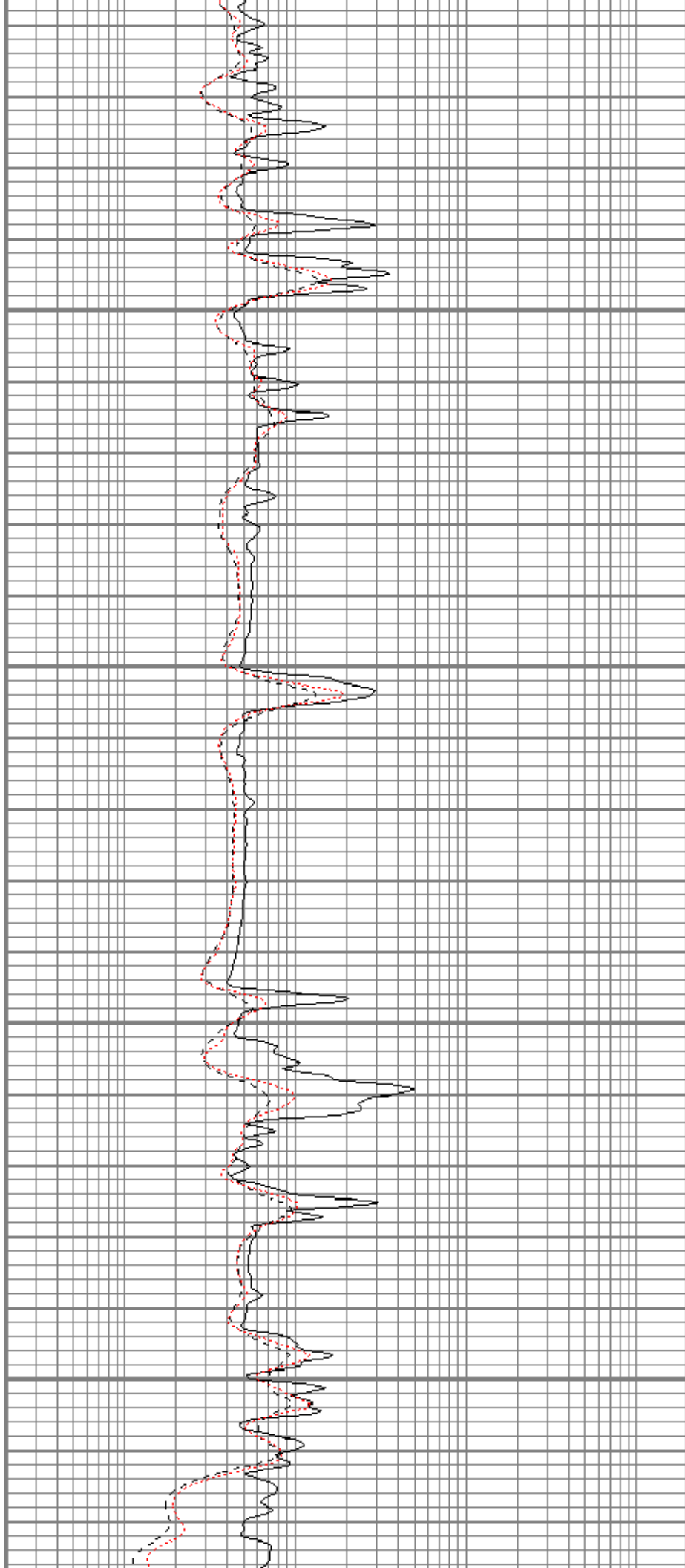


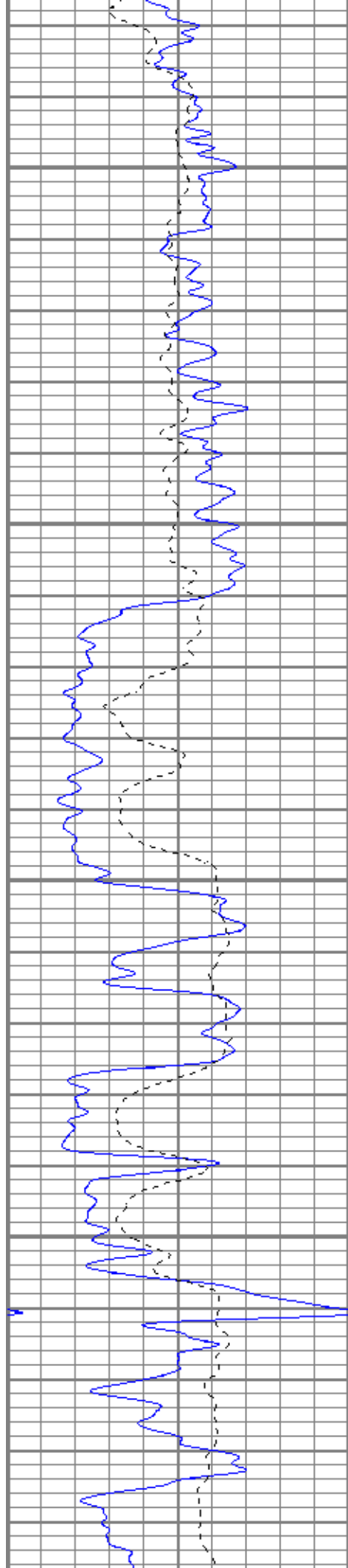
950

1000

1050

1100



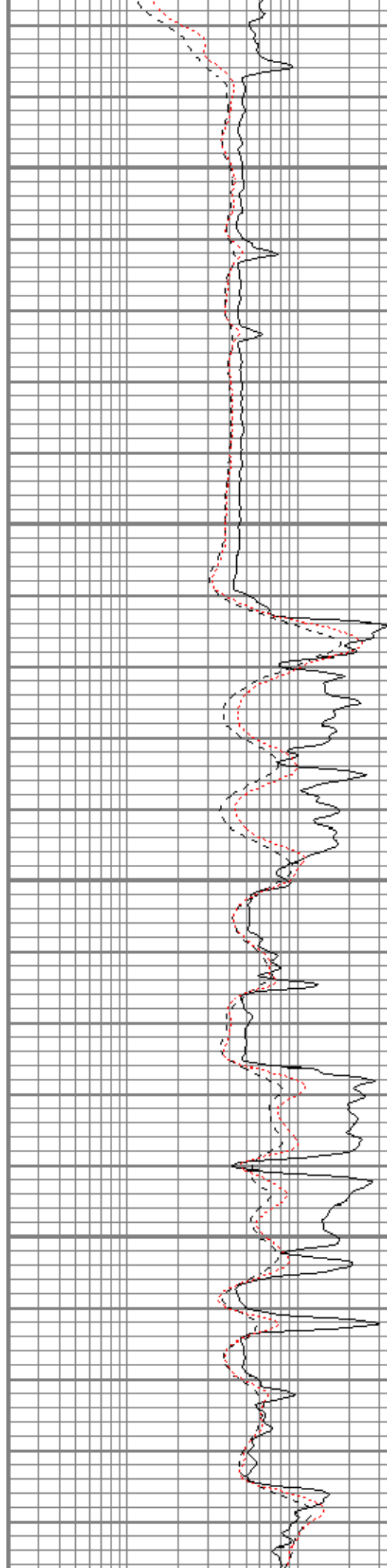


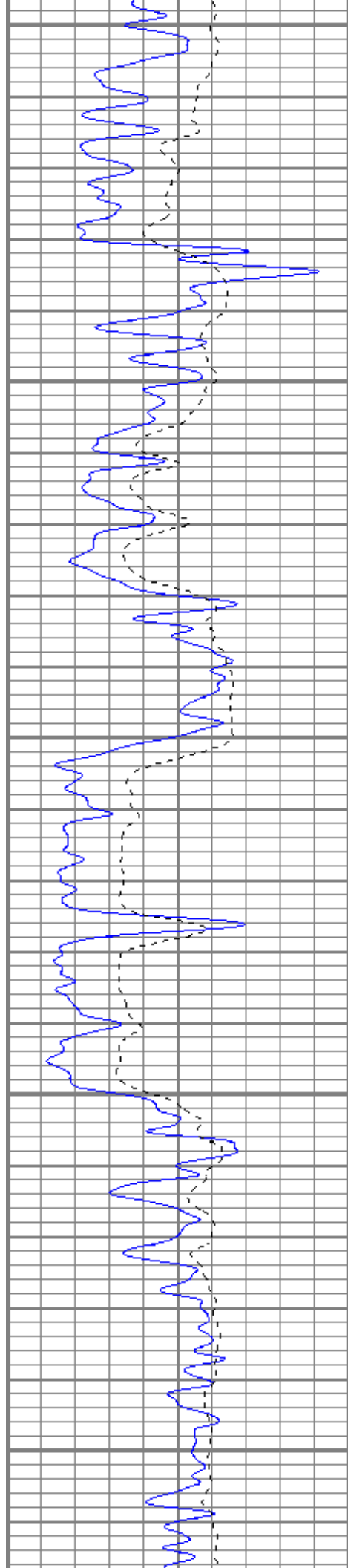
1150

1200

1250

1300





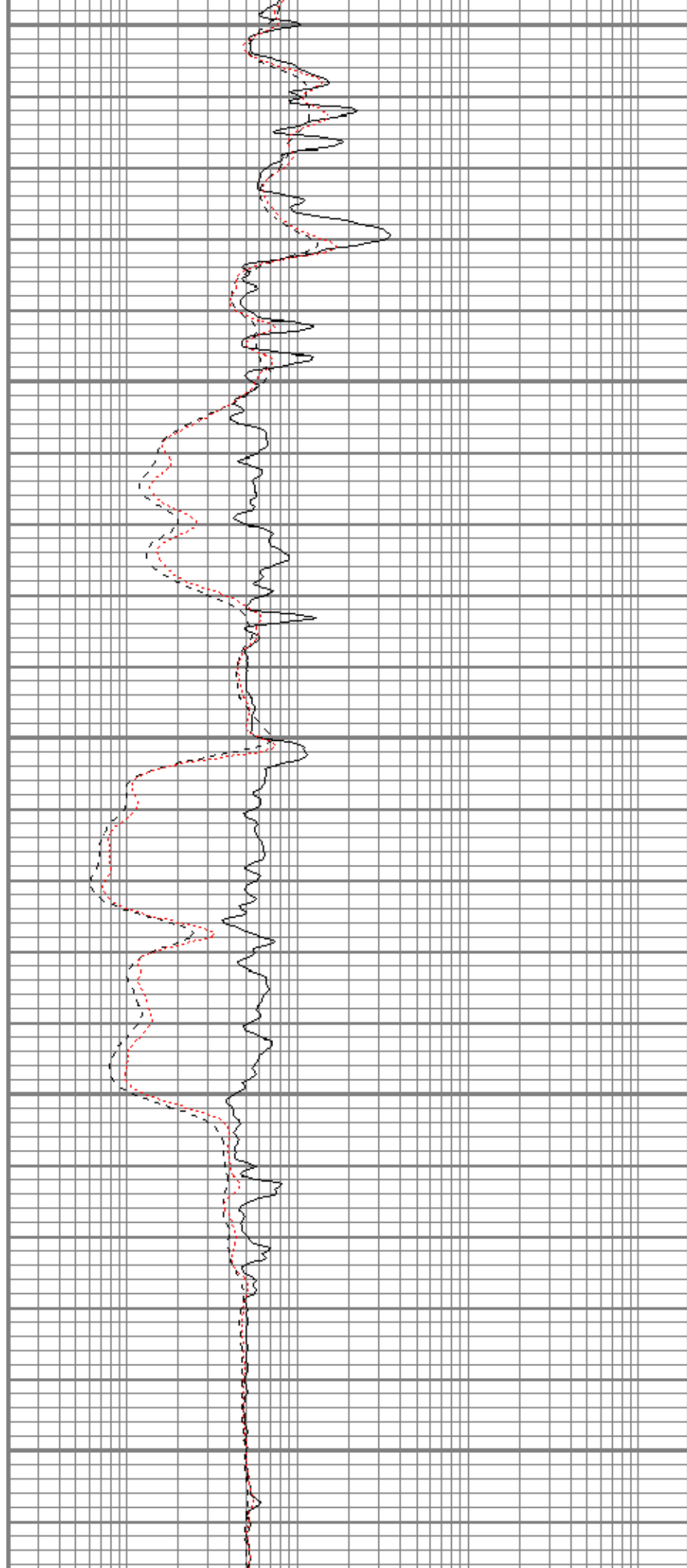
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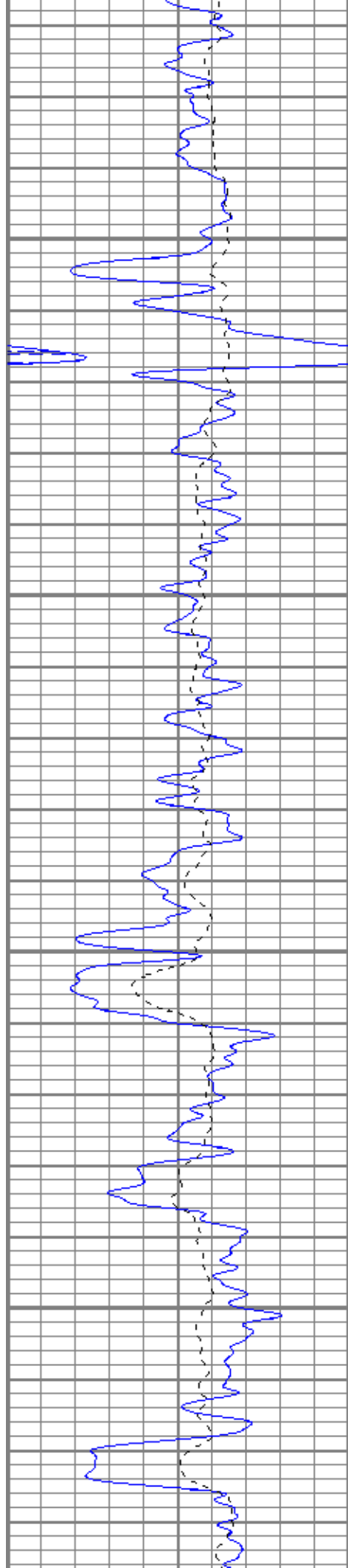
1400

1450

1500

1550



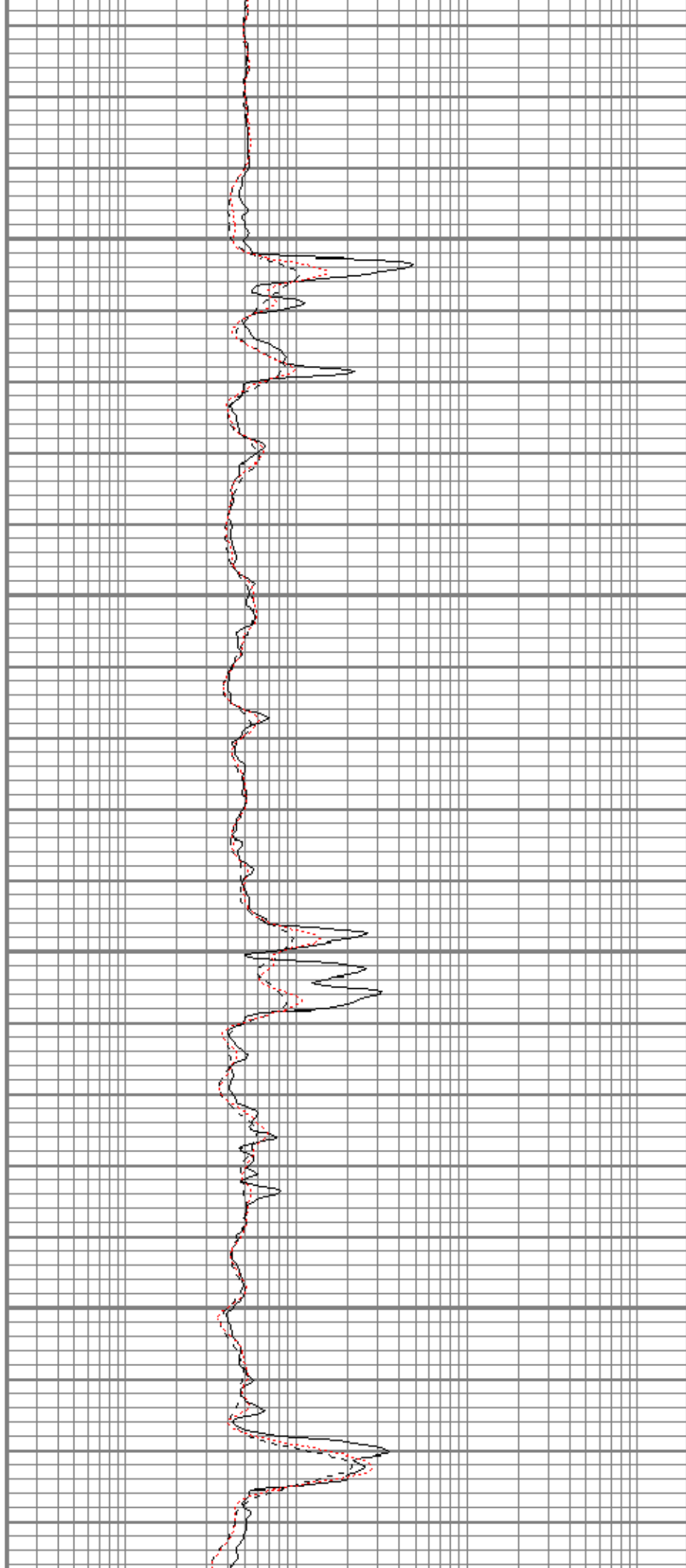


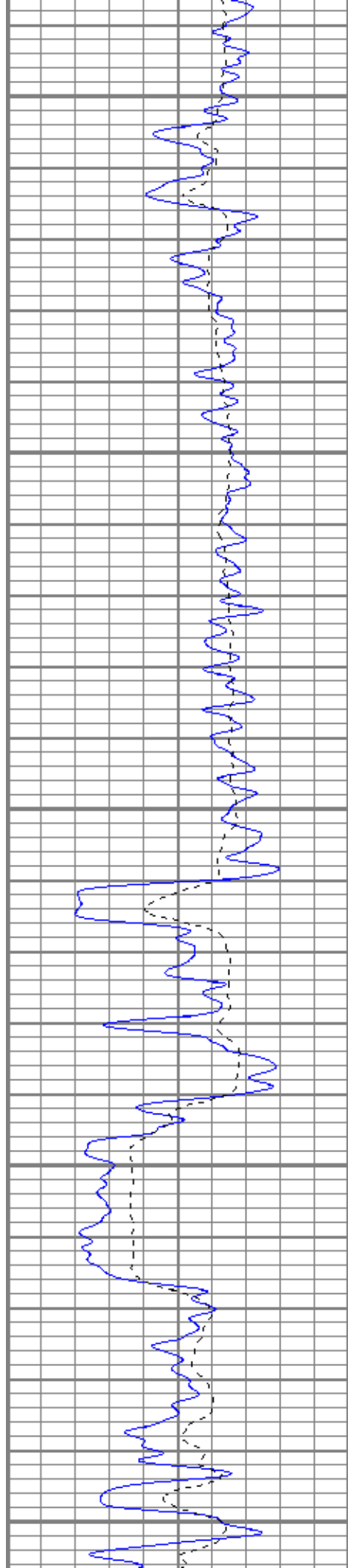
1600

1650

1700

1750





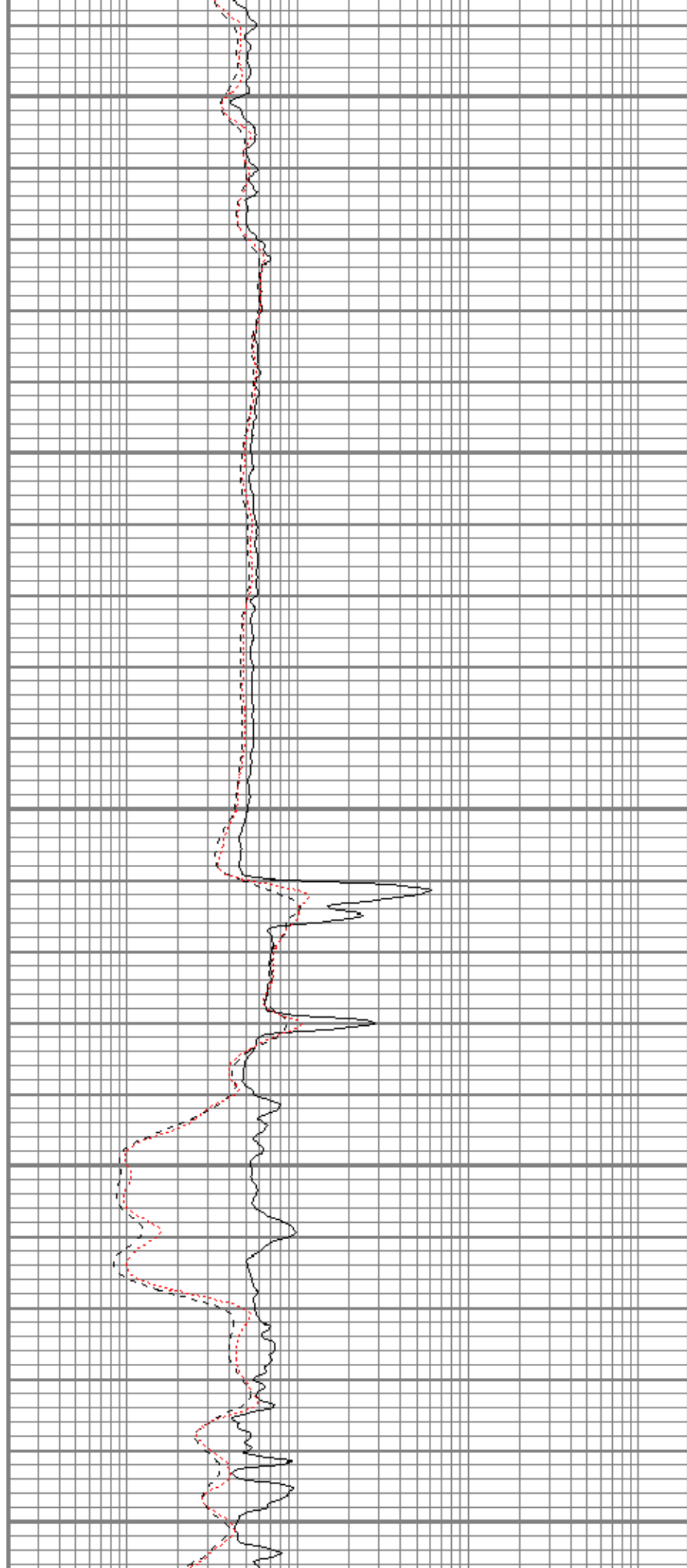
1800

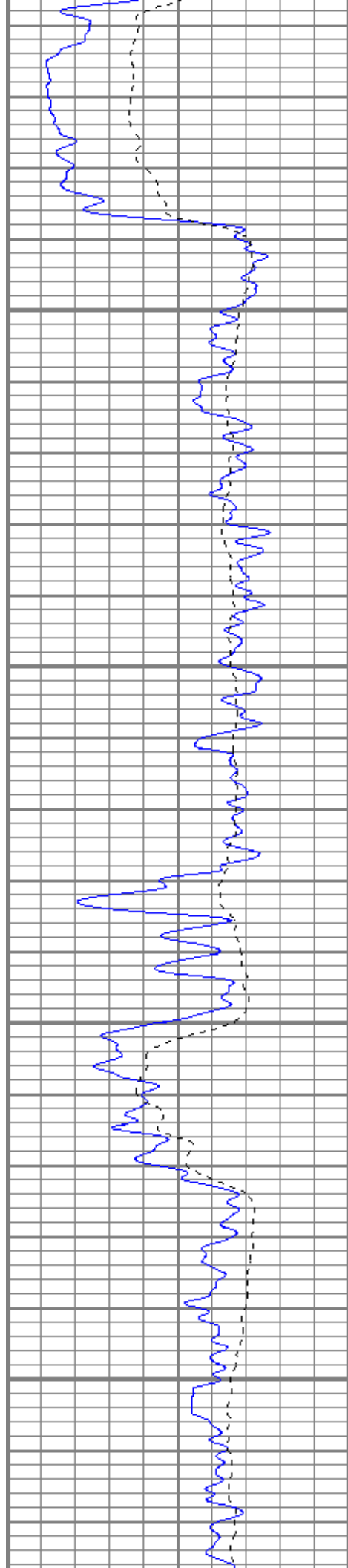
1850

1900

1950

2000



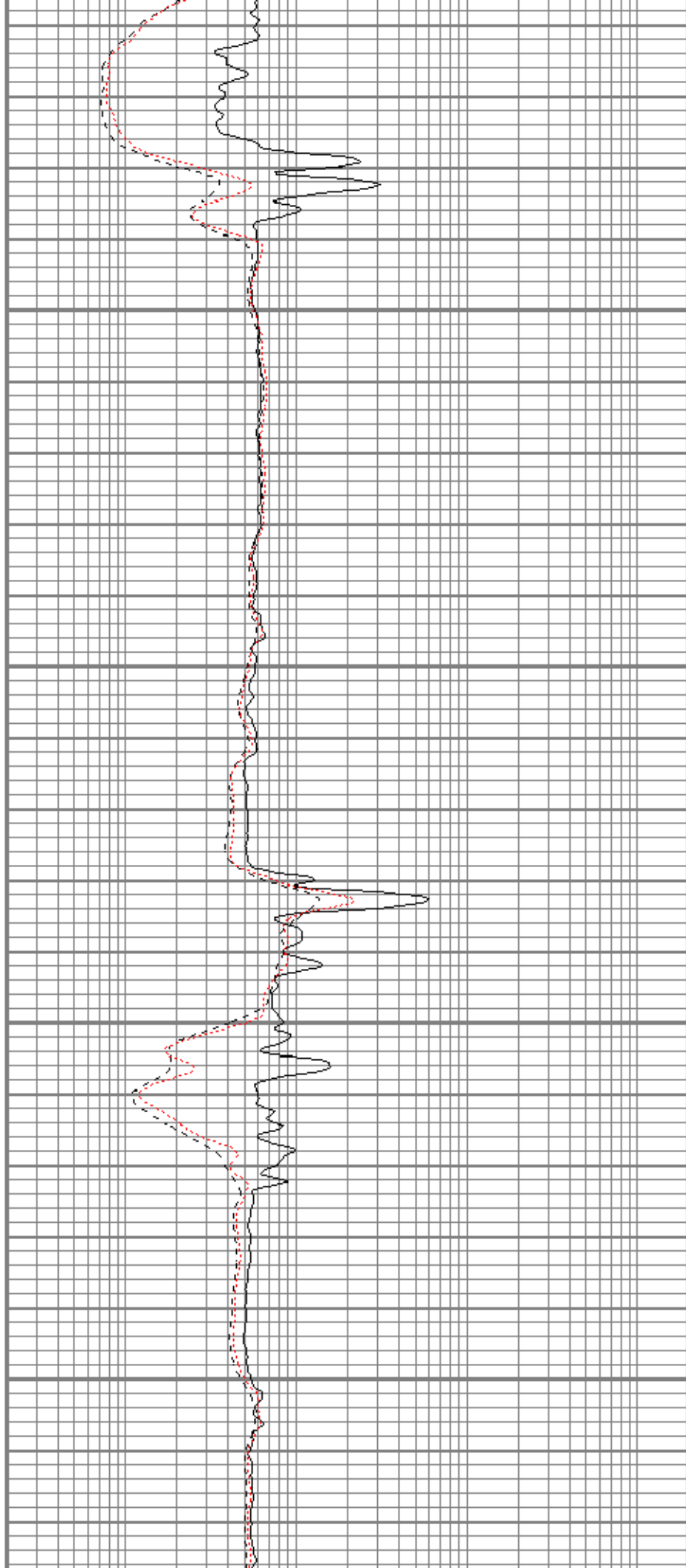


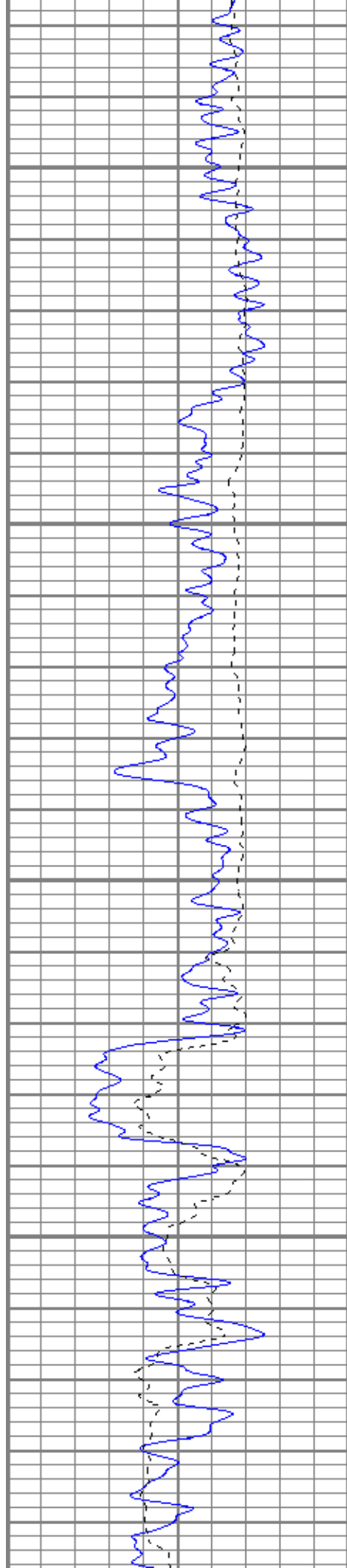
2050

2100

2150

2200



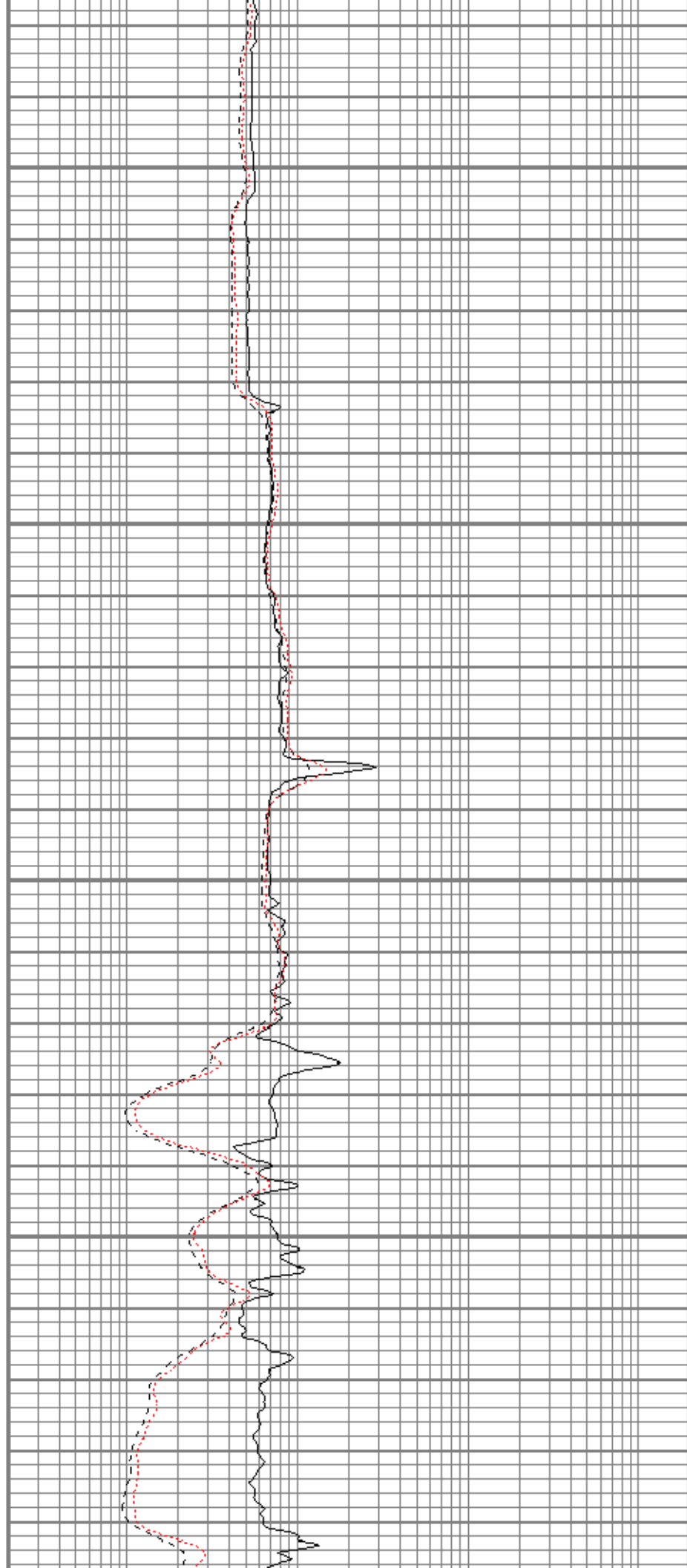


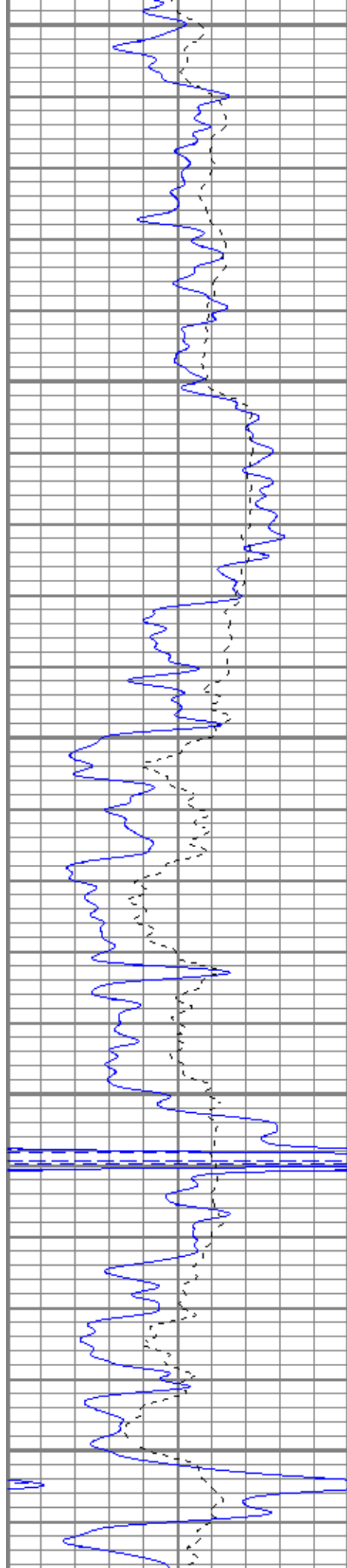
2250

2300

2350

2400





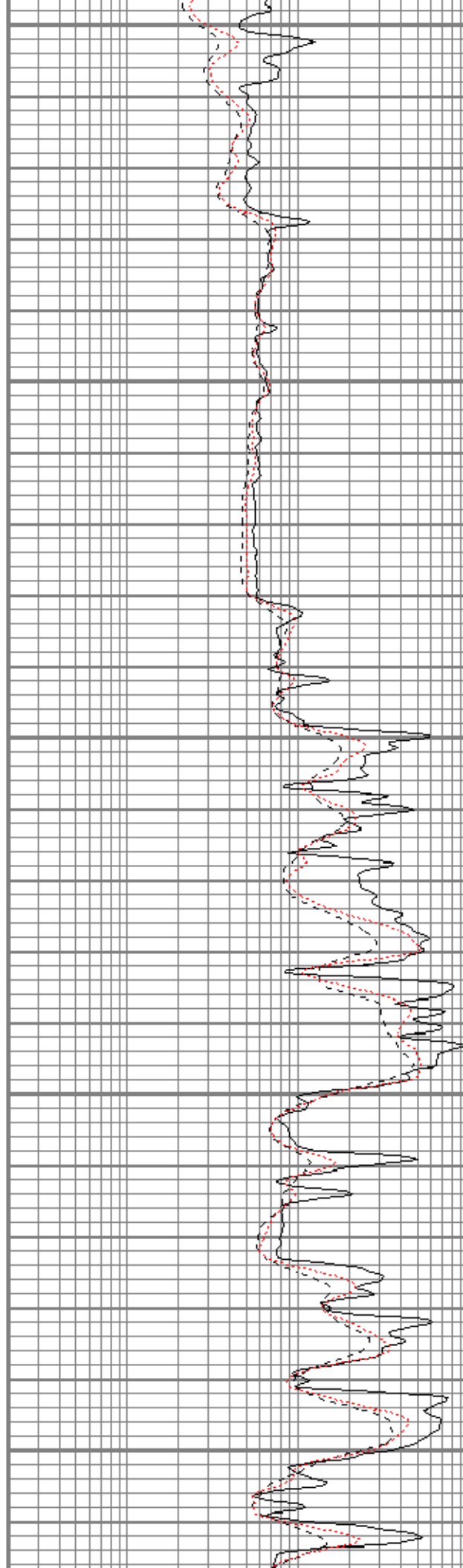
2450

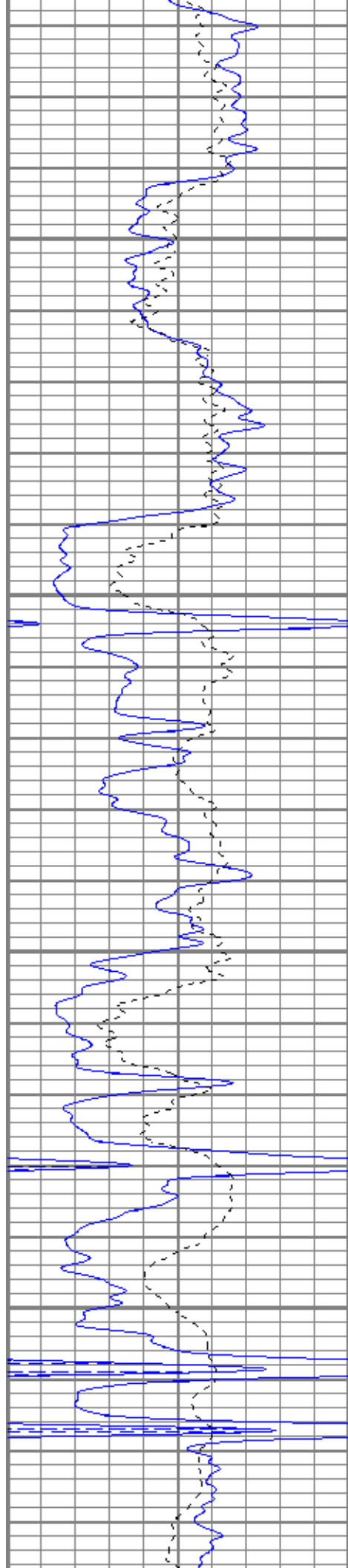
2500

2550

2600

2650



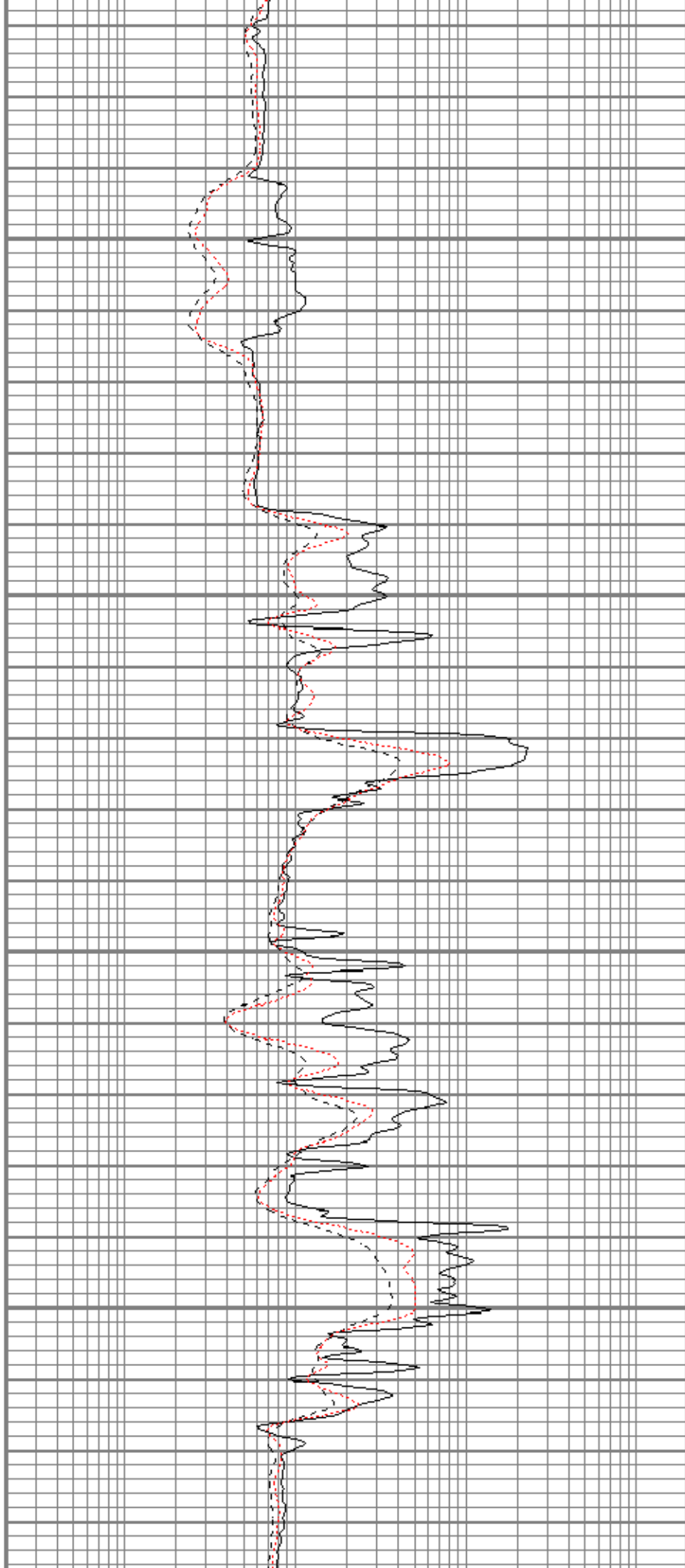


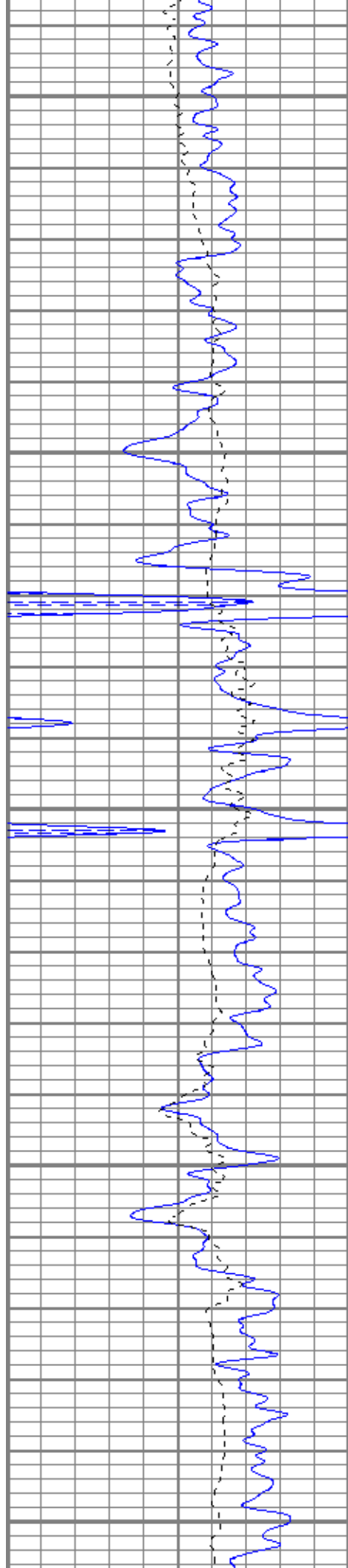
2700

2750

2800

2850





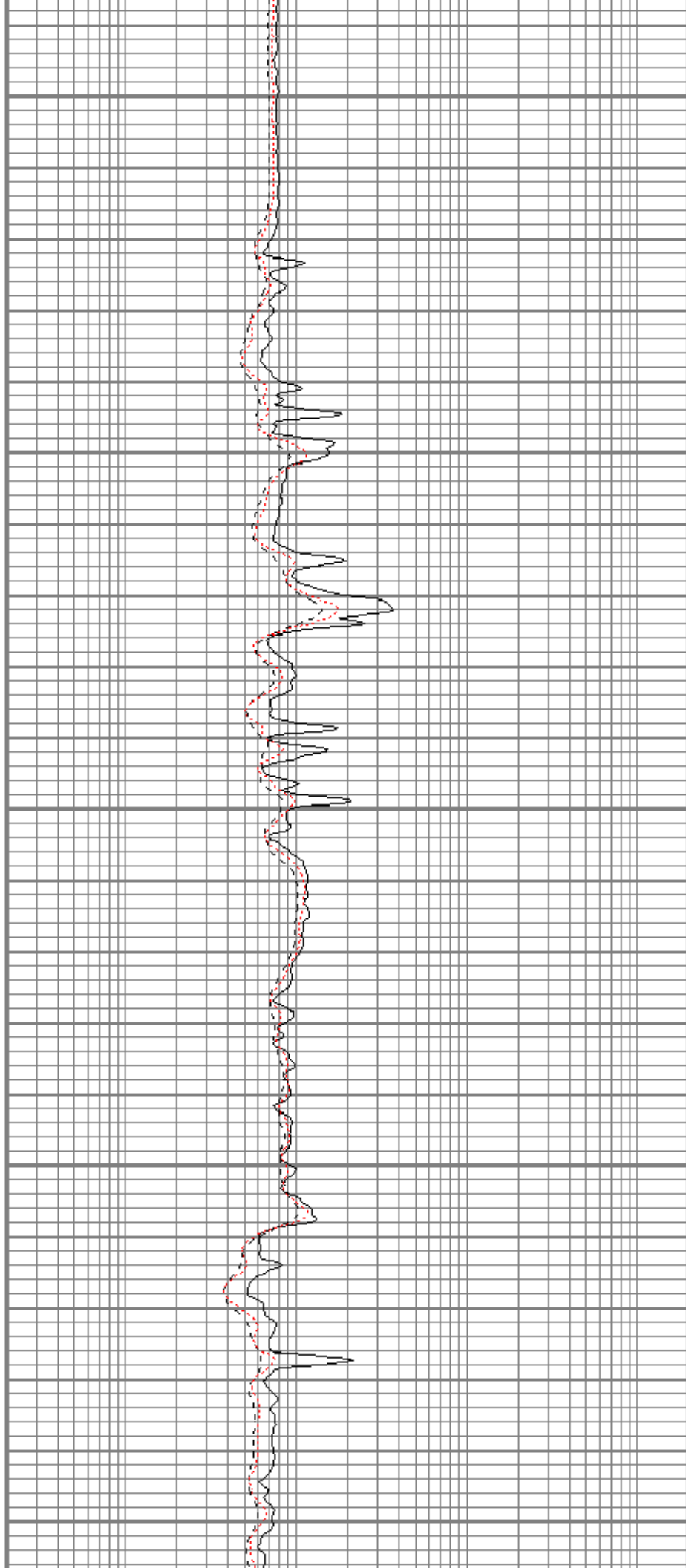
2900

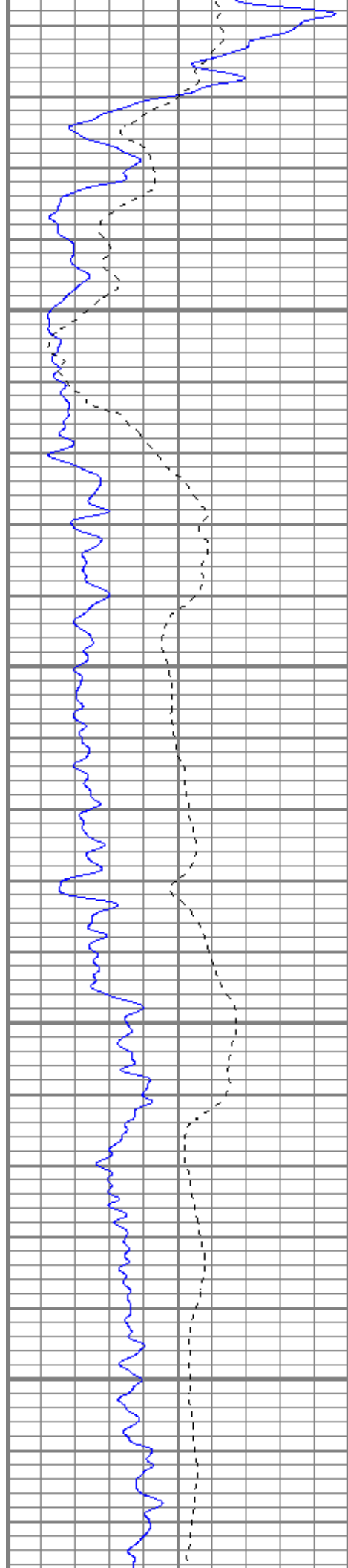
2950

3000

3050

3100



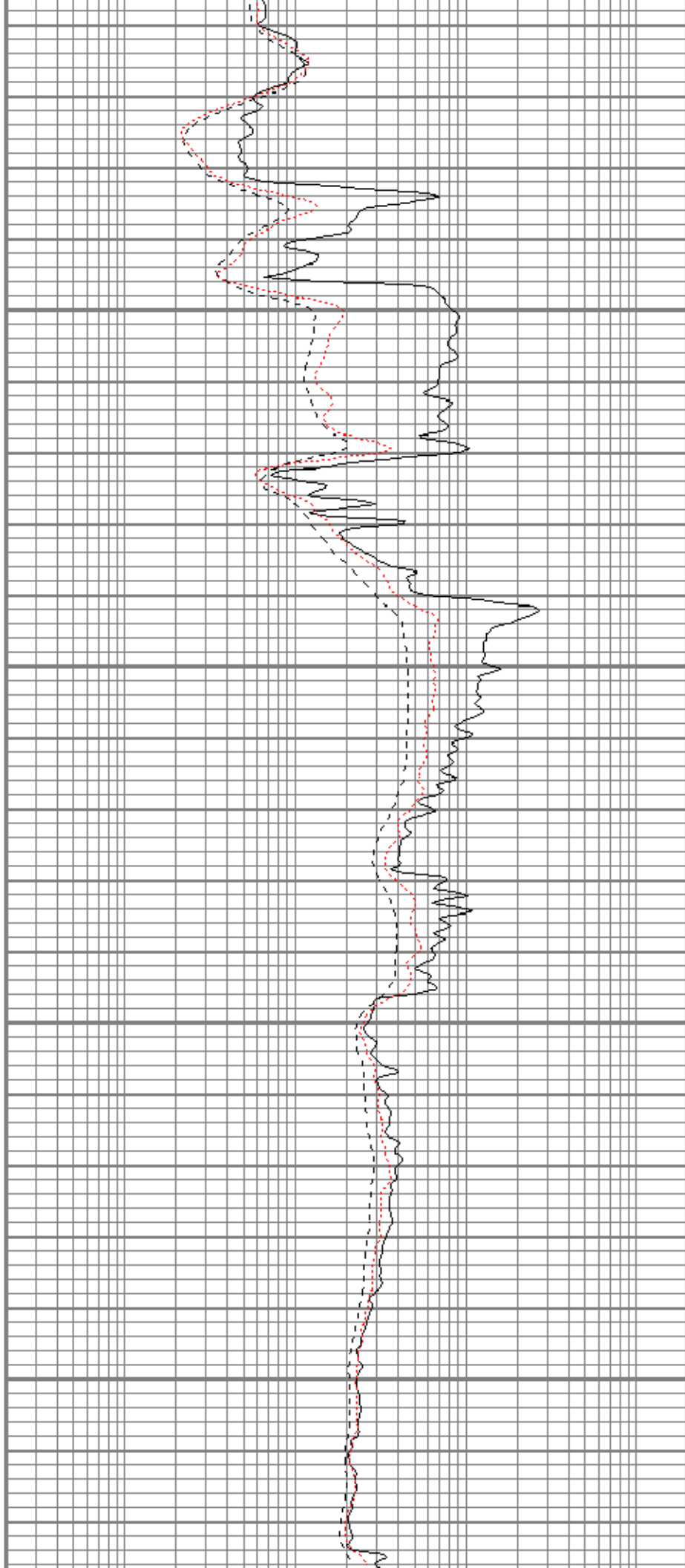


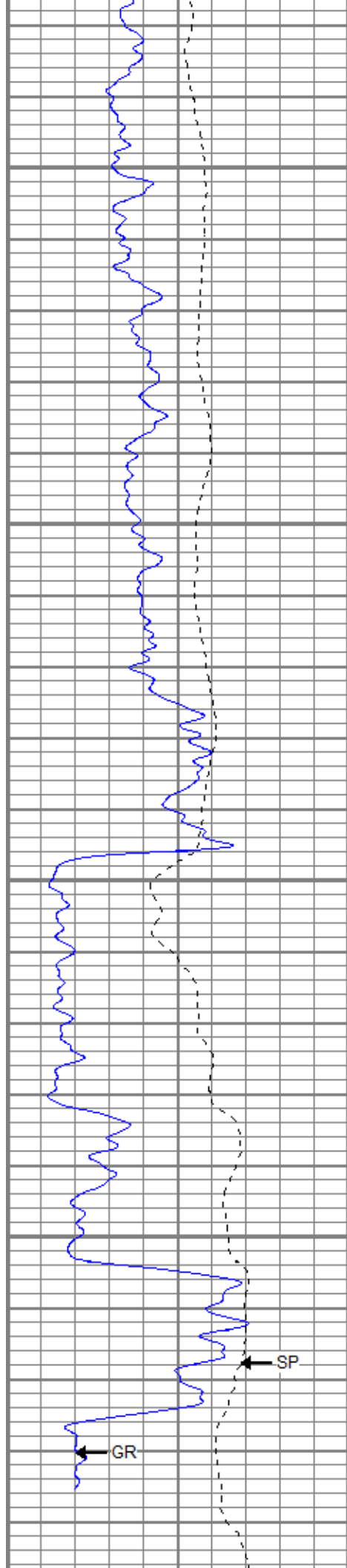
3150

3200

3250

3300





3350

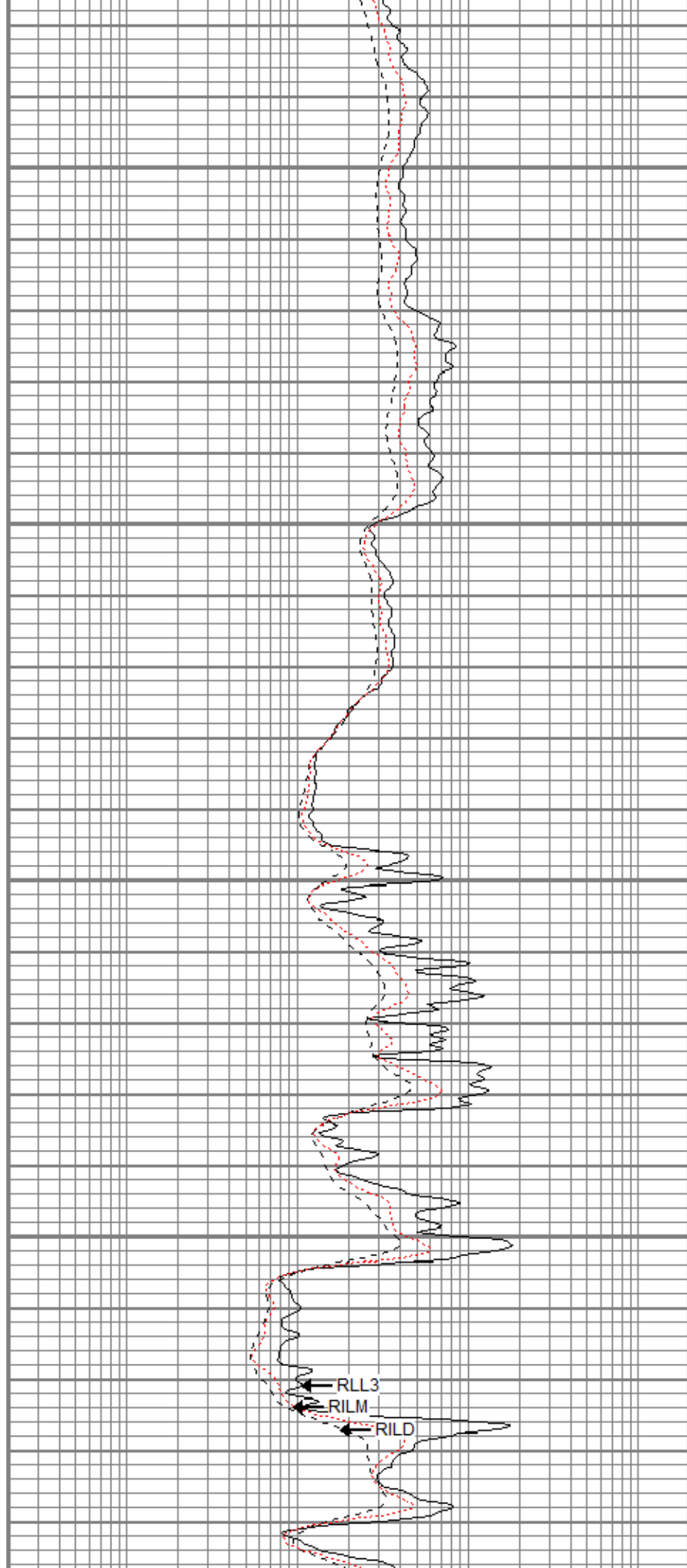
3400

3450

3500

GR

SP



RLL3

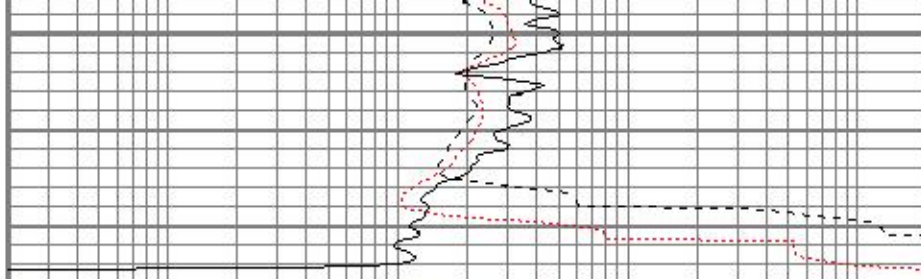
RILM

RILD



3550

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



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

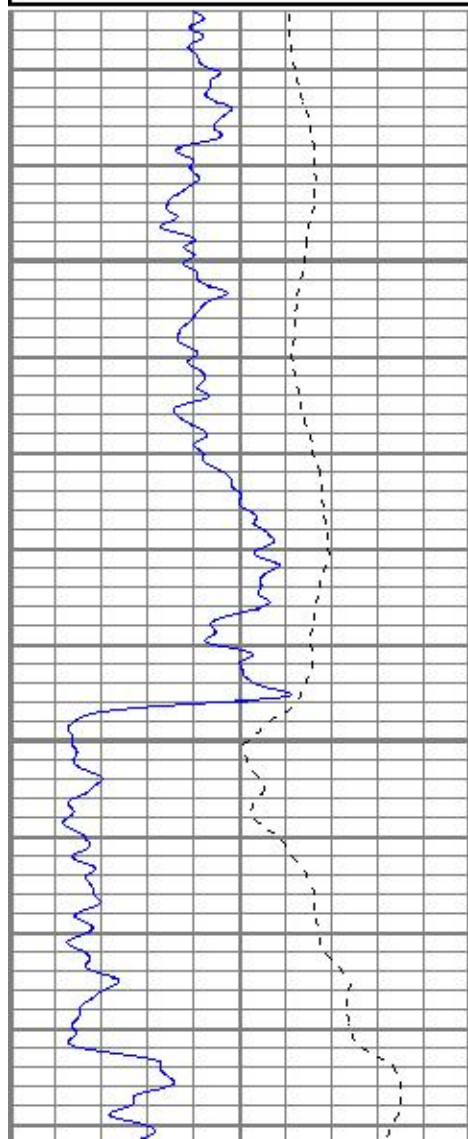


REPEAT SECTION

Database File: taoslfj#5oh.db
 Dataset Pathname: pass1.1
 Presentation Format: kdil
 Dataset Creation: Sat Jun 10 16:32:58 2017
 Charted by: Depth in Feet scaled 1:240

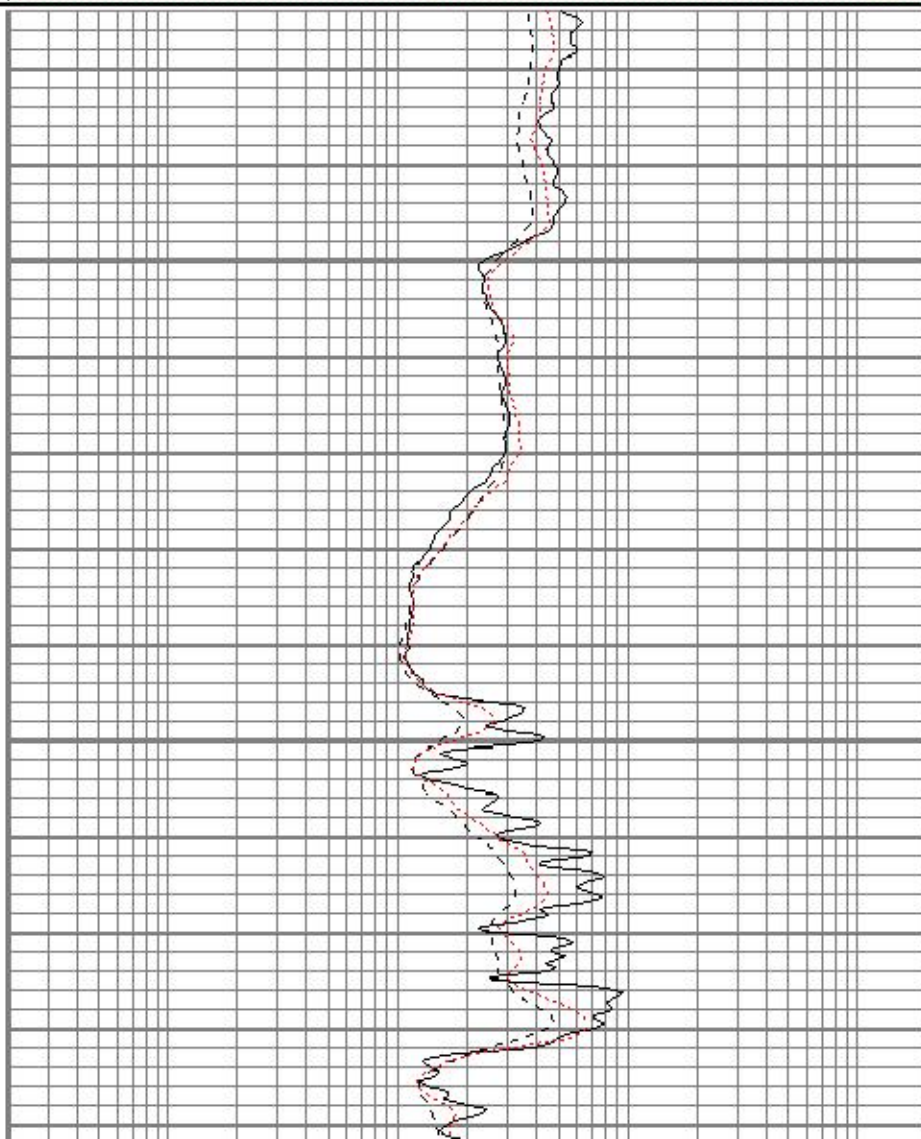
0	GR (GAPI)	150
-100	SP (mV)	100

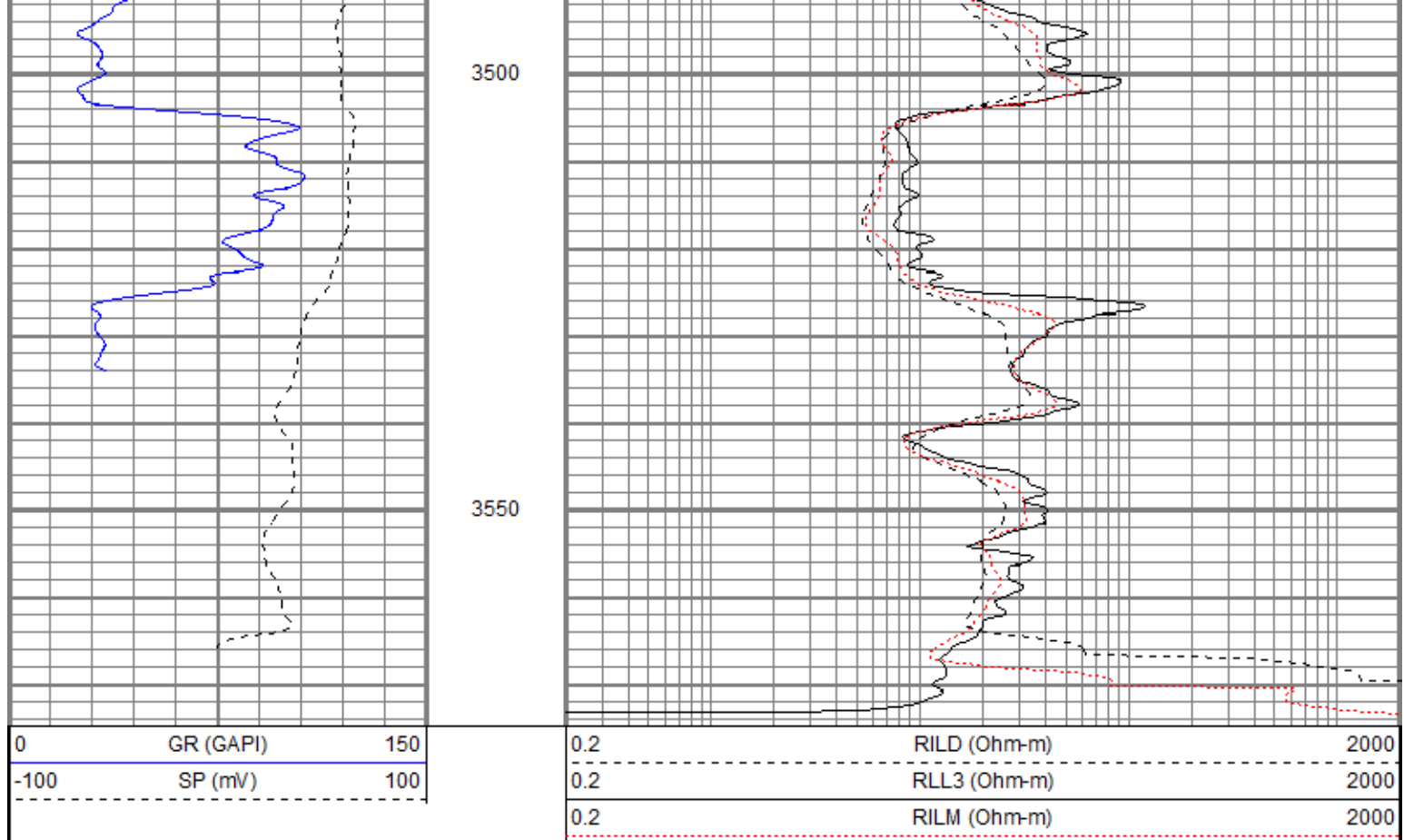
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



3400

3450





Calibration Report										
Database File	taoslfj#5oh.db									
Dataset Pathname	pass2.1									
Dataset Creation	Sat Jun 10 16:27:21 2017									
Dual Induction Calibration Report										
Serial-Model:			1989-ADM							
Surface Cal Performed:			Thu Jun 08 07:52:27 2017							
Downhole Cal Performed:			Thu Jun 08 07:52:30 2017							
After Survey Verification Performed:			Thu Jun 08 07:52:33 2017							
Surface Calibration										
		Readings					References		Results	
Loop:	Air	Loop		Air	Loop		m	b		
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118		
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427		
Internal:	Zero	Cal		Zero	Cal		m	b		
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003		
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036		
Downhole Calibration										
		Readings					References		Results	
Internal:	Zero	Cal		Zero	Cal		m	b		
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078		
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013		
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	180.177	-2.046		
After Survey Verification										
		Readings					Targets		Results	

Readings				Targets			
Internal:	Zero	Cal		Zero	Cal		
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000
							b'

Neutron Calibration Report			
Serial Number:	Admyr		
Tool Model:	G		
Performed:	Thu Mar 09 09:56:12 2017		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	

Gamma Ray Calibration Report			
Serial Number:	1		
Tool Model:	A		
Performed:	Thu Jun 08 07:52:01 2017		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.7000	GAPI/cps	

Temperature Calibration Report			
Serial Number:	1		
Tool Model:	A		
Performed:	Thu Jun 08 07:52:12 2017		
	Reference	Reading	
Low Reference:	0.00 degF	0.00	degF
High Reference:	32.00 degF	32.00	degF
Gain:	1.00		
Offset:	0.00		
Delta Spacing	1		

Inclinometer Calibration Report			
Performed:	Thu Jun 08 07:52:17 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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	38.32		CHD-STD	0.50	1.69	1.00
TEMP	35.35		ADT1PULSE-A (1)	0.83	3.50	10.00
PSTAT	35.06		Pulsed Interface Tool #1			
ASTAT	35.06		ADT1ADC-A (1)	0.83	3.50	10.00
			Analog Interface #1			

GRD	34.81		ADT1SENSORS-A (1)	4.54	3.50	10.00
ACCY	34.65		NEU-G (Admyr) Gearhart Epithermal	5.65	3.50	85.00
ACCX	34.65					
SSTAT	34.65					
NEU	33.46					
LStat	22.54					
LS8	21.88					
LS7	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS6	21.88					
LS5	21.88					
LS4	21.88					
LS3	21.88					
LS2	21.88					
LS1	21.88					
LSV	21.88					
LSD	21.86					
SSV	21.67					
SS8	21.67					
SS7	21.67					
SS6	21.67		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
SS5	21.67					
SS4	21.67					
SS3	21.67					
SS2	21.67					
SS1	21.67					
DCAL	21.61					
SSD	21.27					
SP	10.60					
CILD	10.60					
CILM	6.89	Dataset: taoslfj#5oh.db: field/well/run1/pass2.1				
RLL3	1.70	Total length: 39.69 ft				
TR_Mon	0.00	Total weight: 656.00 lb				
		O.D.: 4.00 in				