



BOREHOLE COMPENSATED SONIC LOG

Company Taos Resources Operating Company LLC

Well LFJ #4

Field Unnamed

County Cowley State Kansas

Location: API #: 15 035 24675

SEC 33 TWP 32S RGE 5E

Permanent Datum Ground Level Elevation 1262'

Log Measured From KB 5' AGL

Drilling Measured From KB

Other Services
DIL
CDNL
ML

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

Date 10-17-17

Run Number Two

Depth Driller 3560'

Depth Logger 3560'

Bottom Logged Interval 3551'

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 2:00 p.m.

Maximum Recorded Temperature 111degf

Equipment Number T-729

Location Hays, KS

Recorded By C. Patterson

Witnessed By Mr. Mike Pressnall

Mr. Ray Dorthy

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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(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

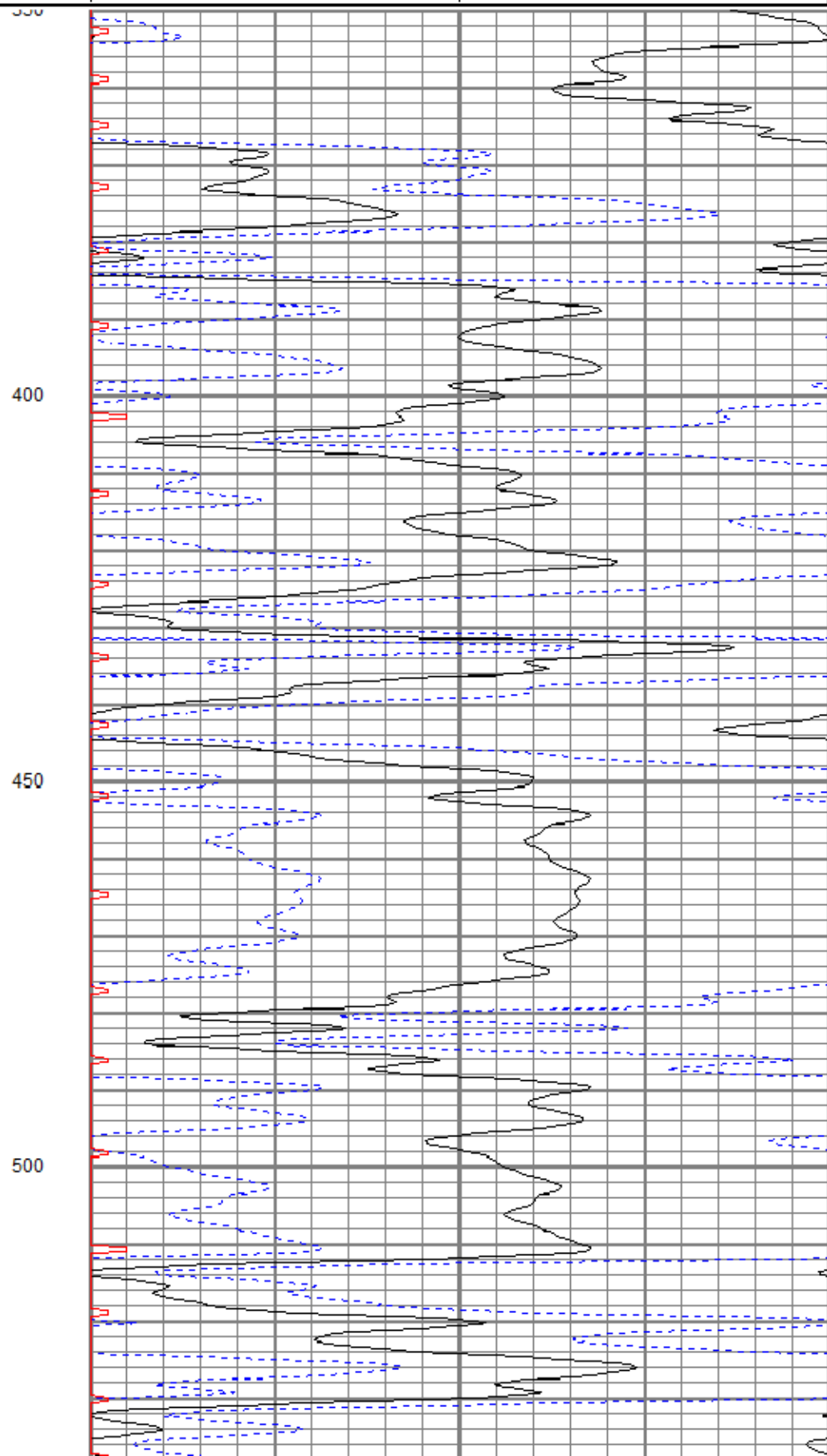
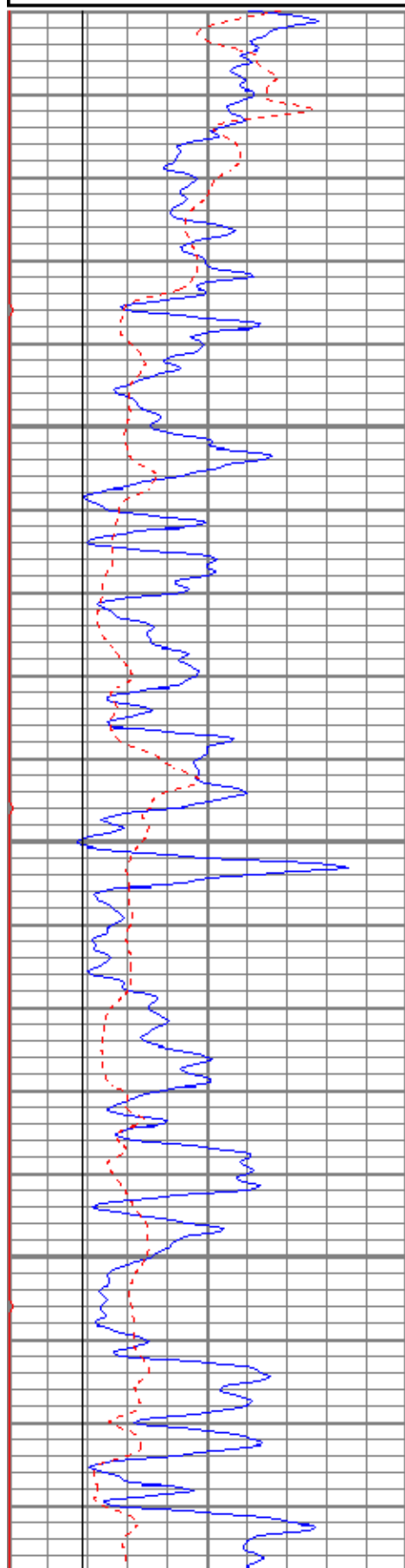


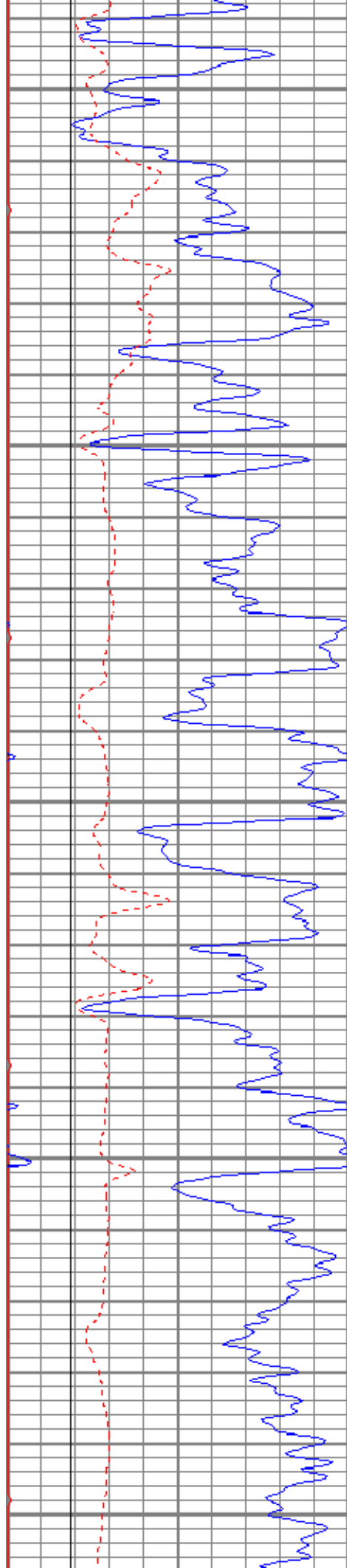
MAIN PASS

Database File trlfj4oh.db
Dataset Pathname pass4
Presentation Format kbcs
Dataset Creation Tue Oct 17 14:13:18 2017
Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

140	DT (usec/ft)	40
30	SPOR (pu)	-10
0	ITT (msec)	20





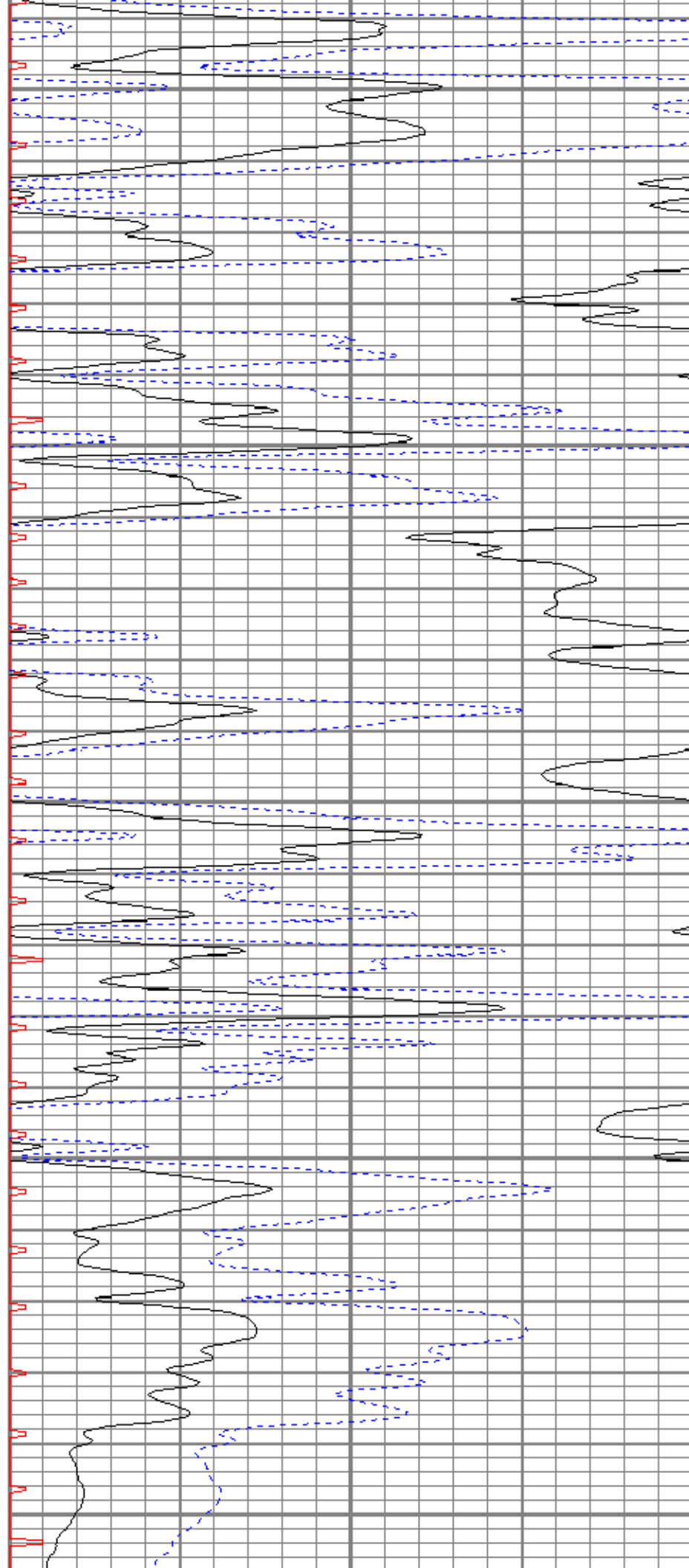
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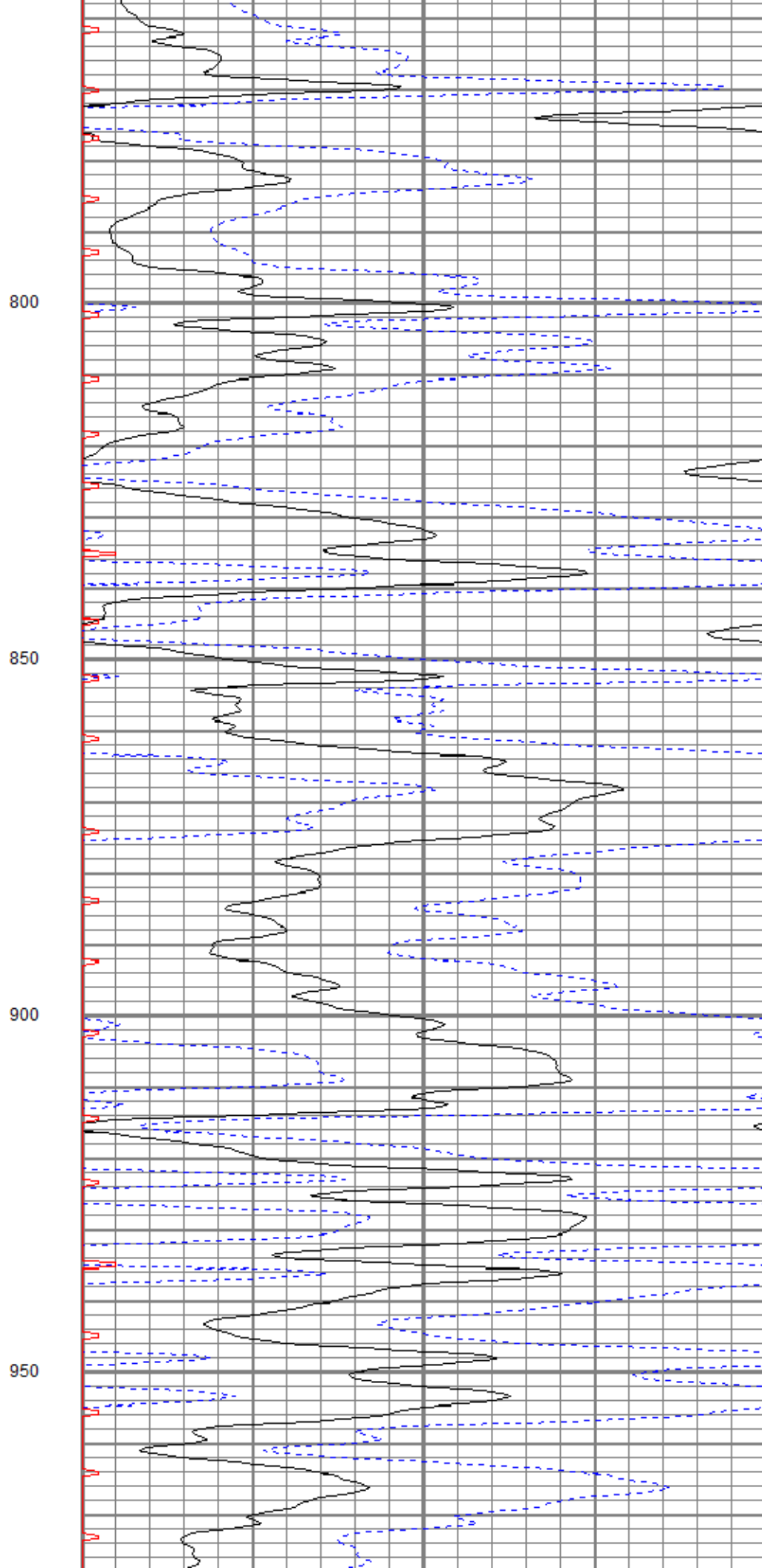
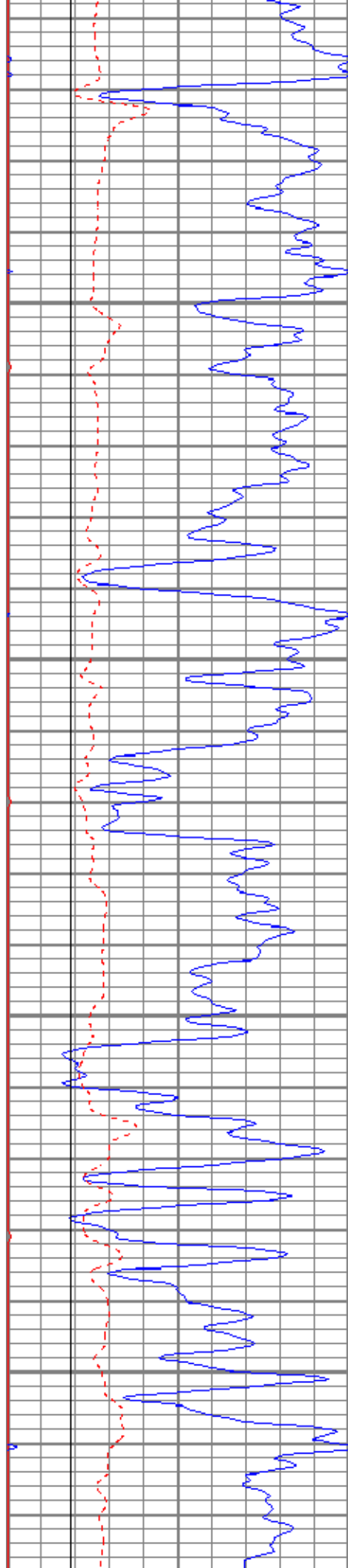
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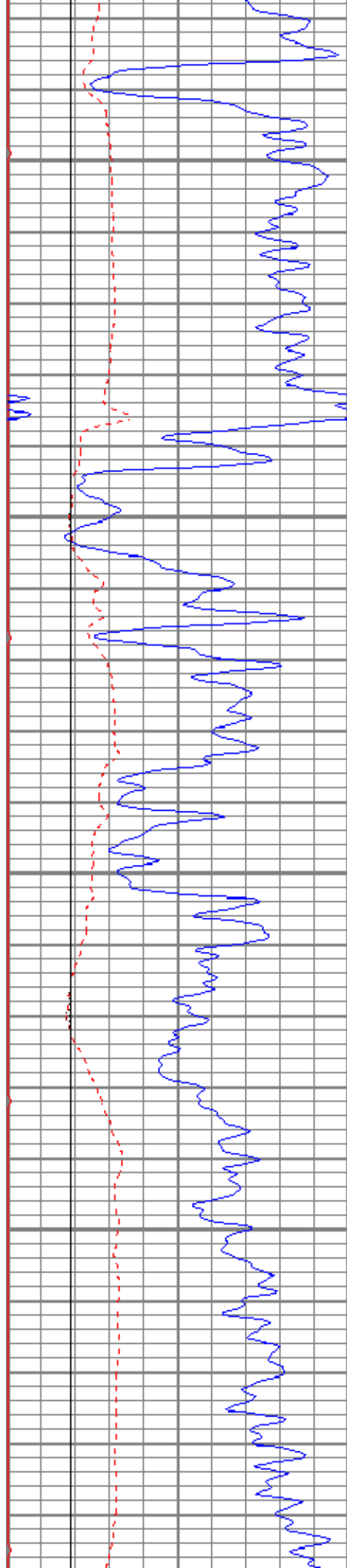
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750





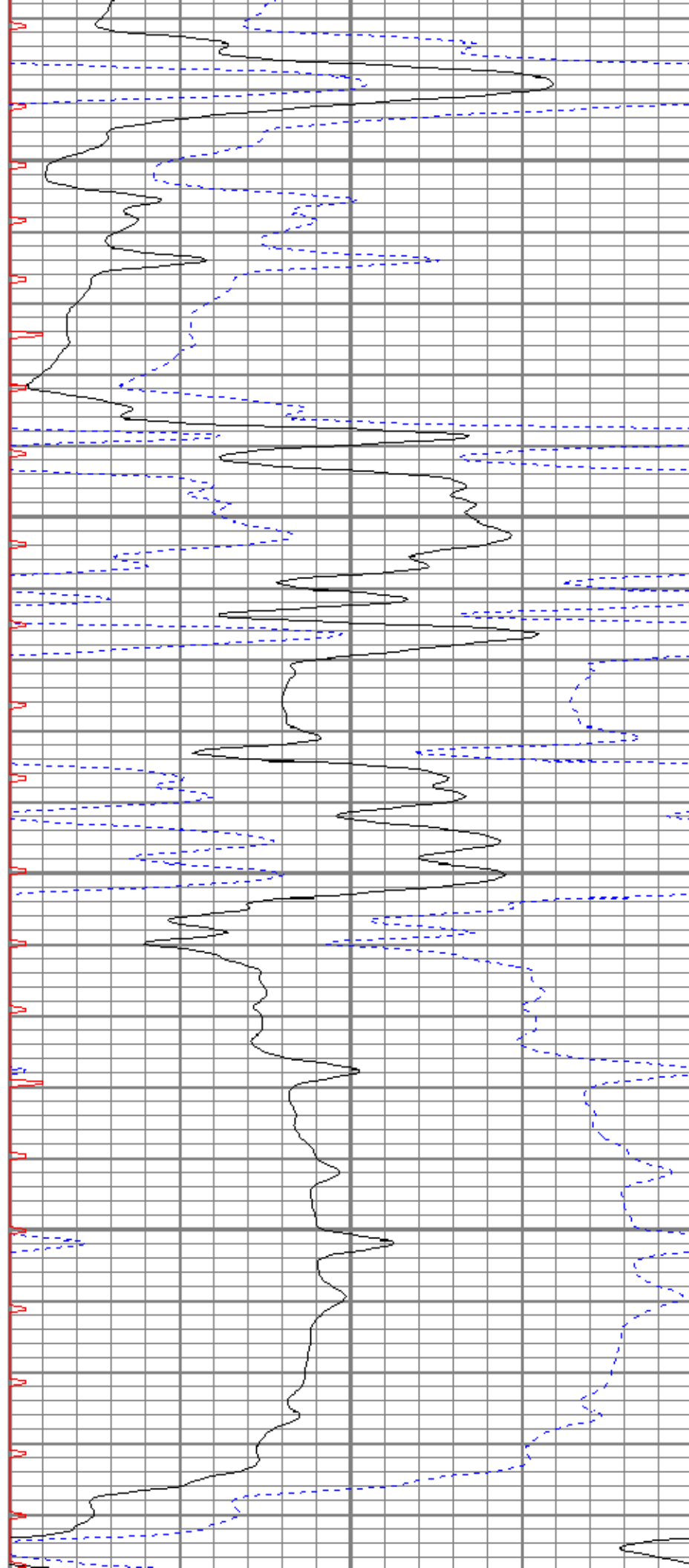


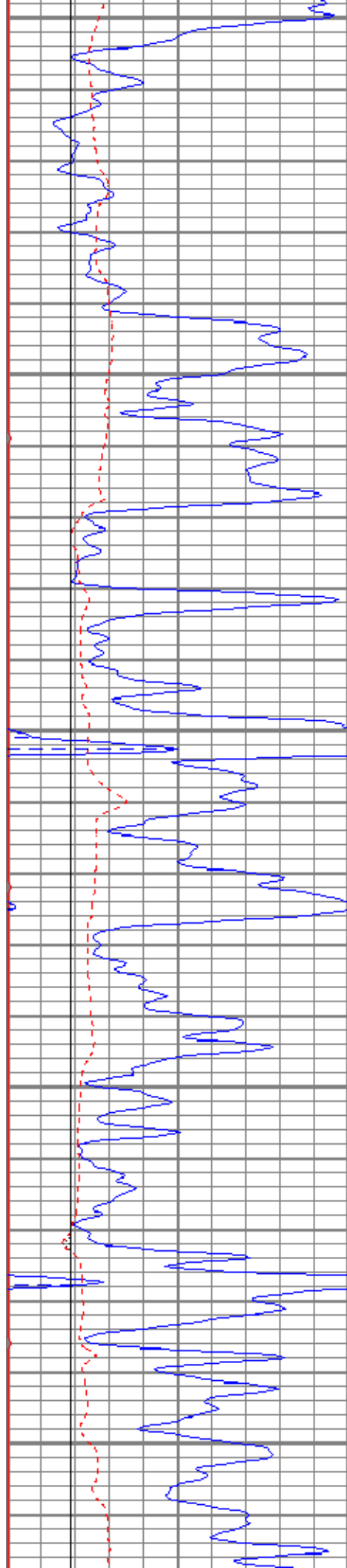
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1050

1100

1150





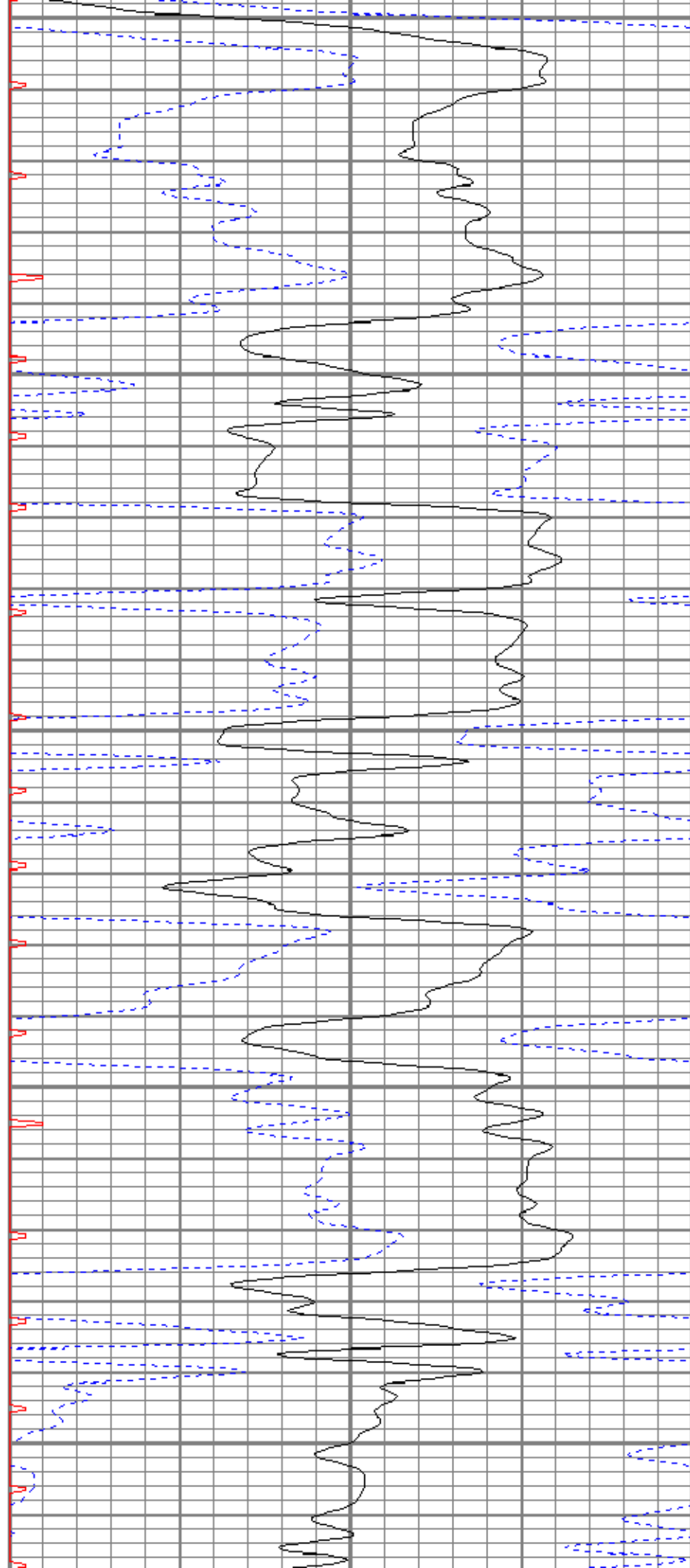
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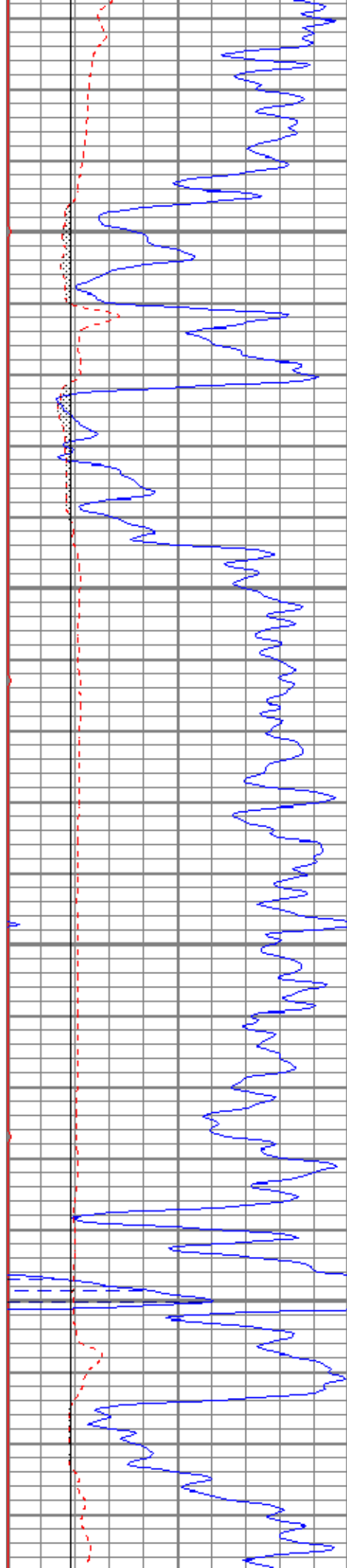
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1300

1350

1400



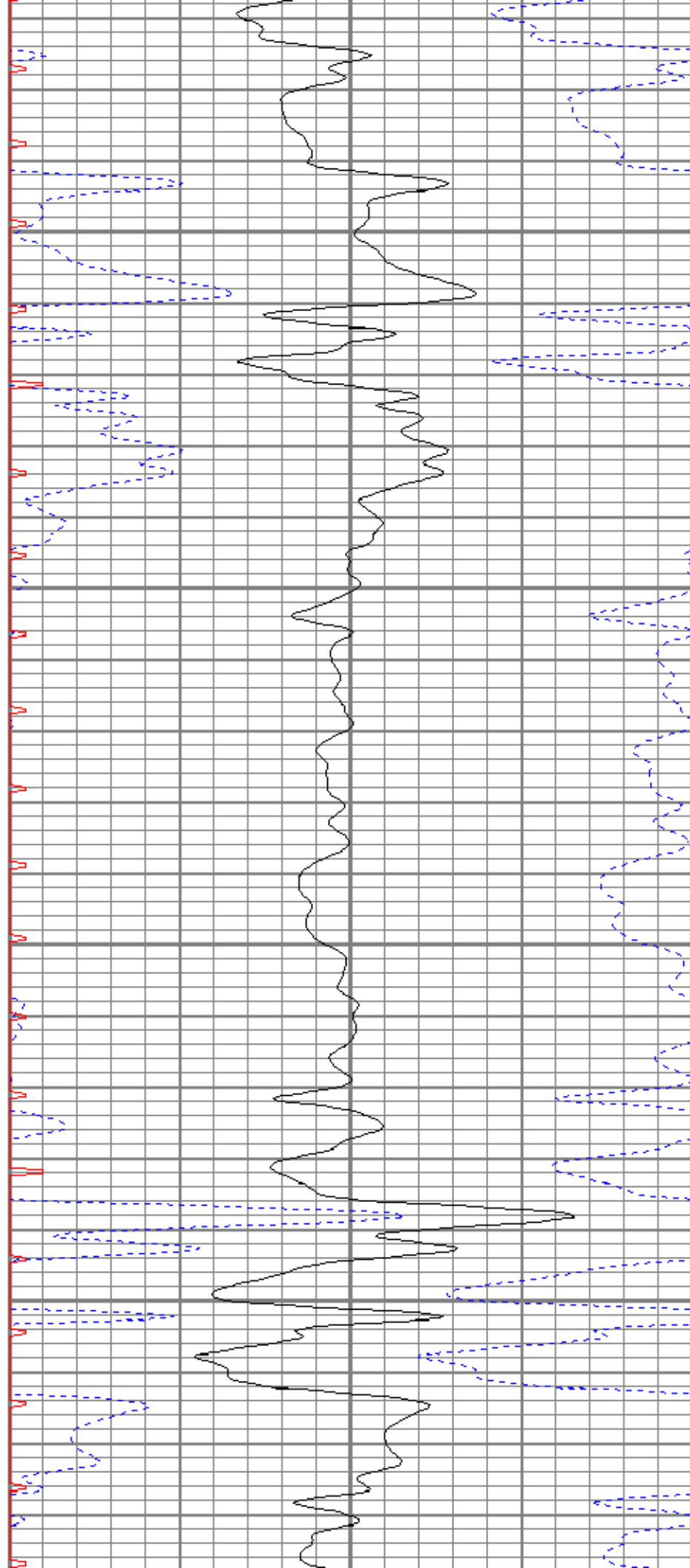


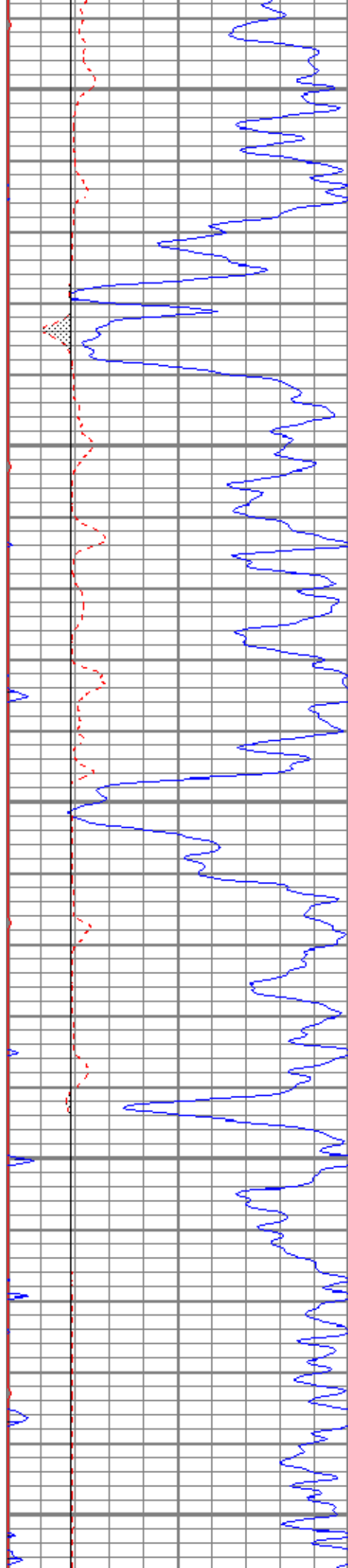
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1500

1550

1600





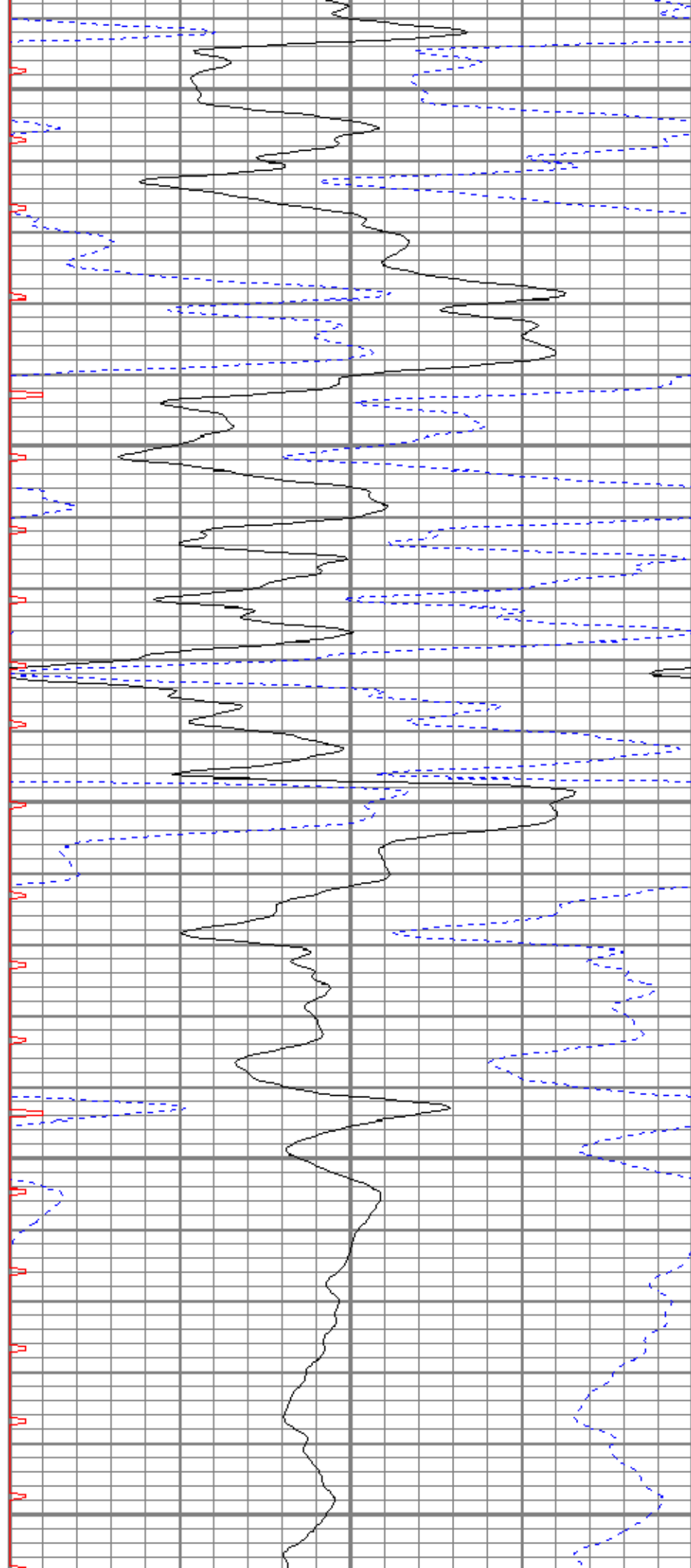
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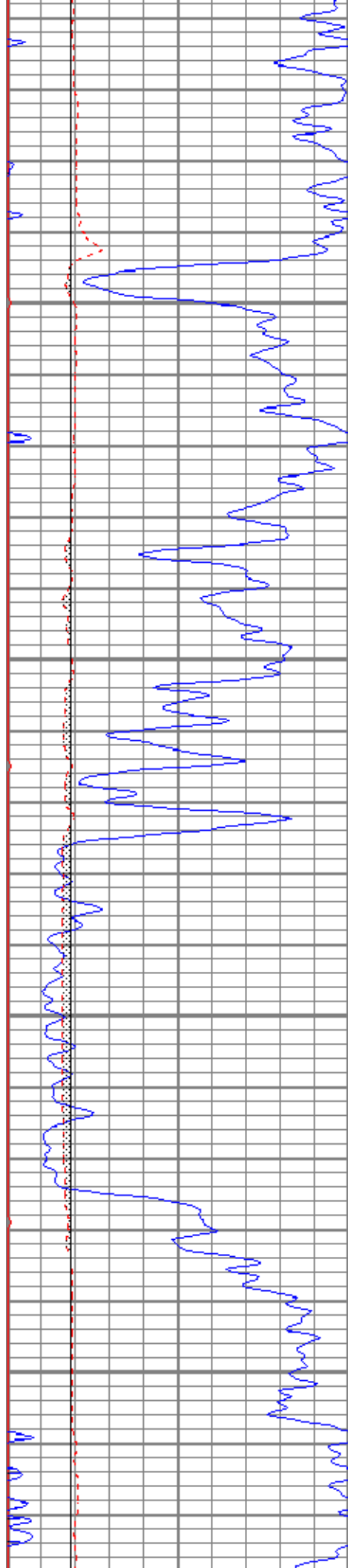
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1750

1800

1850



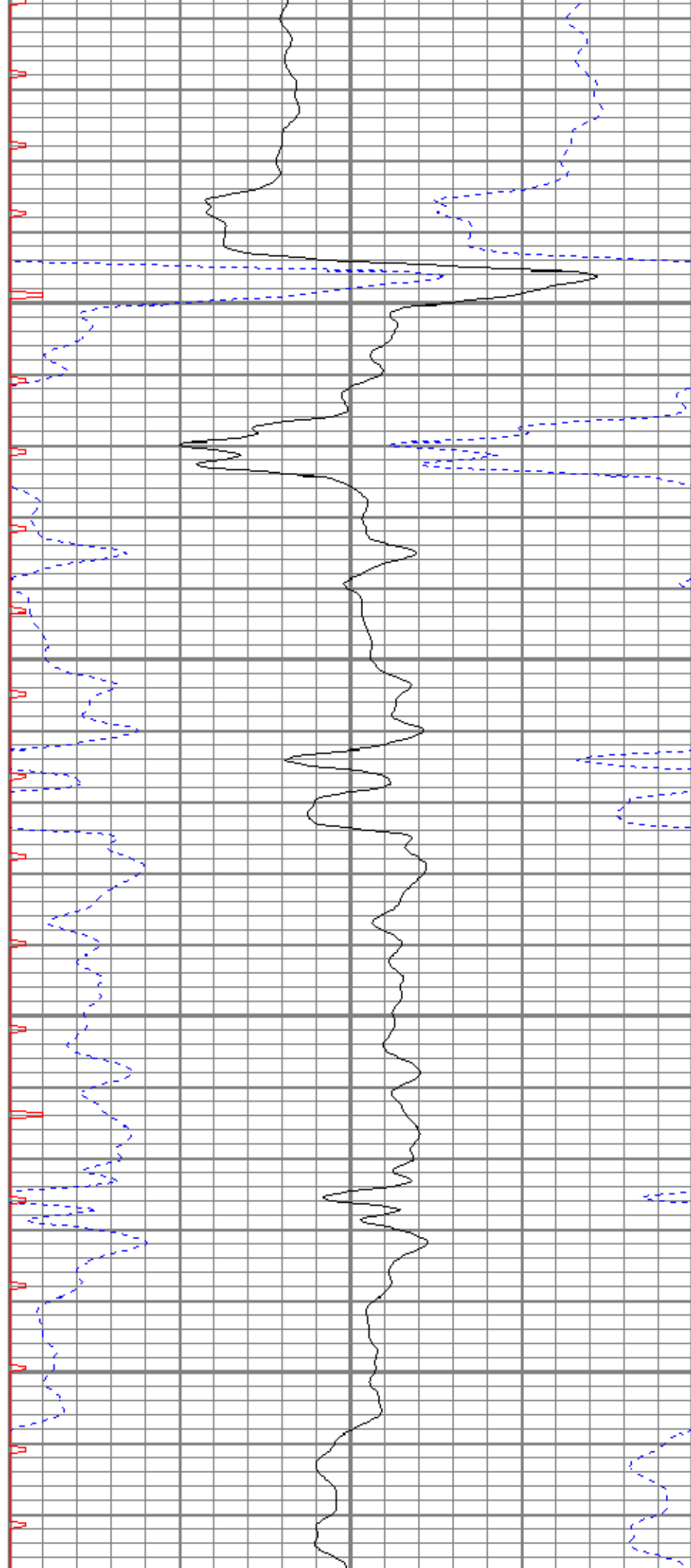


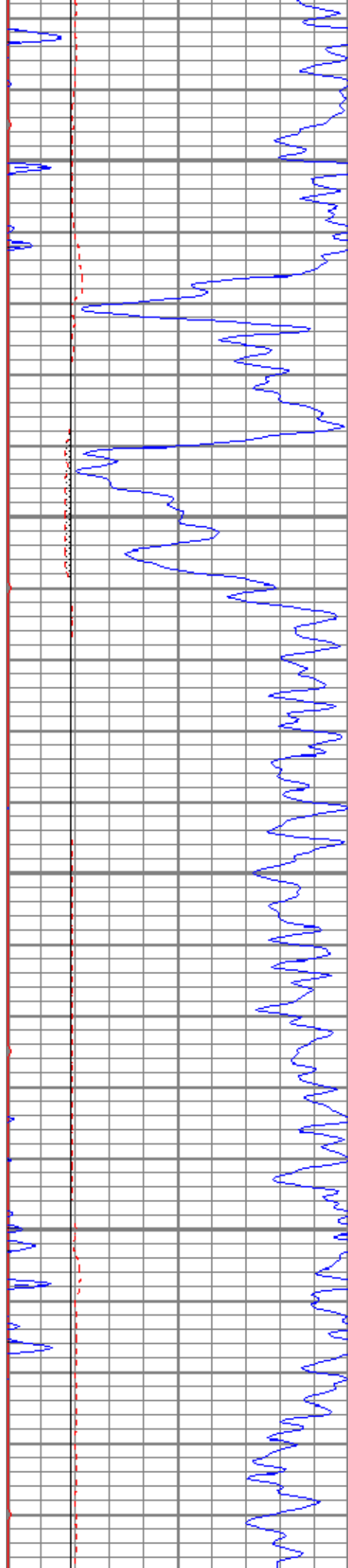
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1950

2000

2050



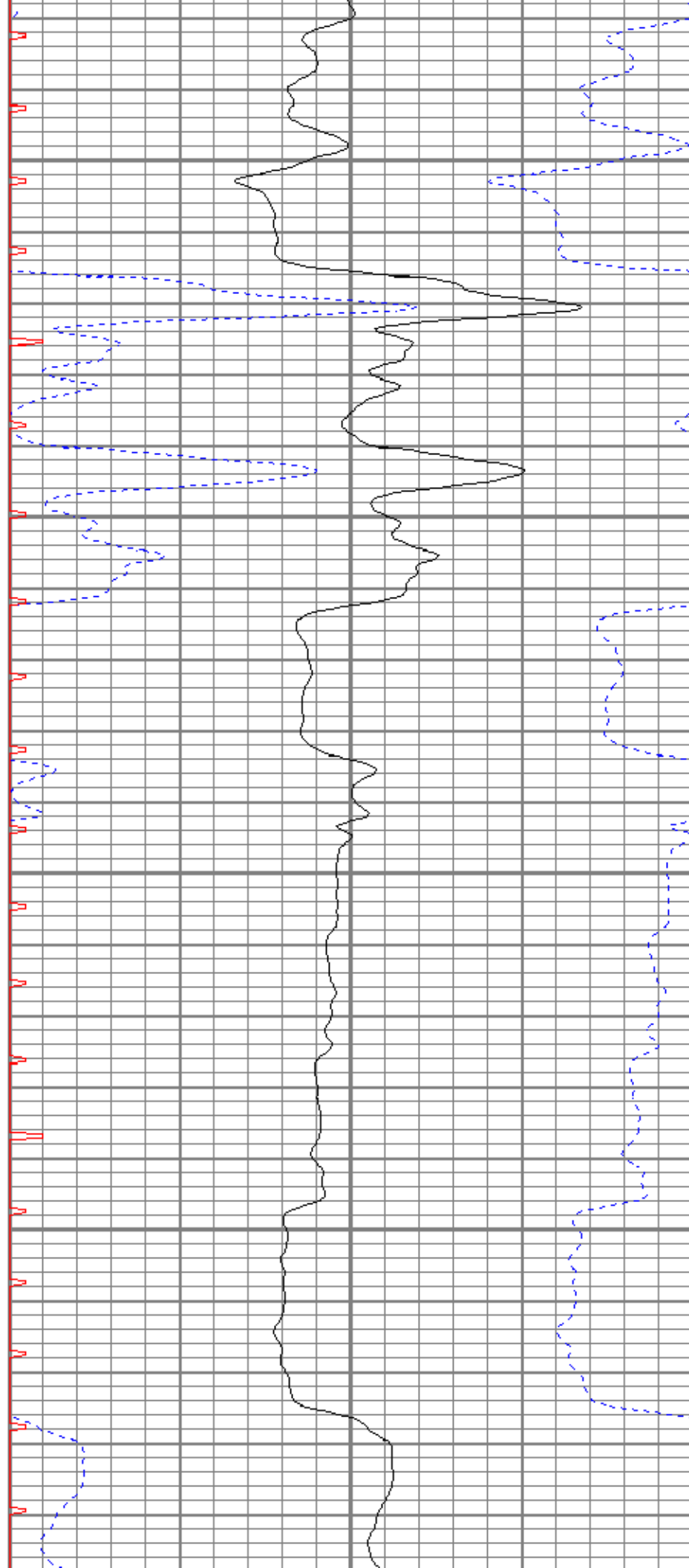


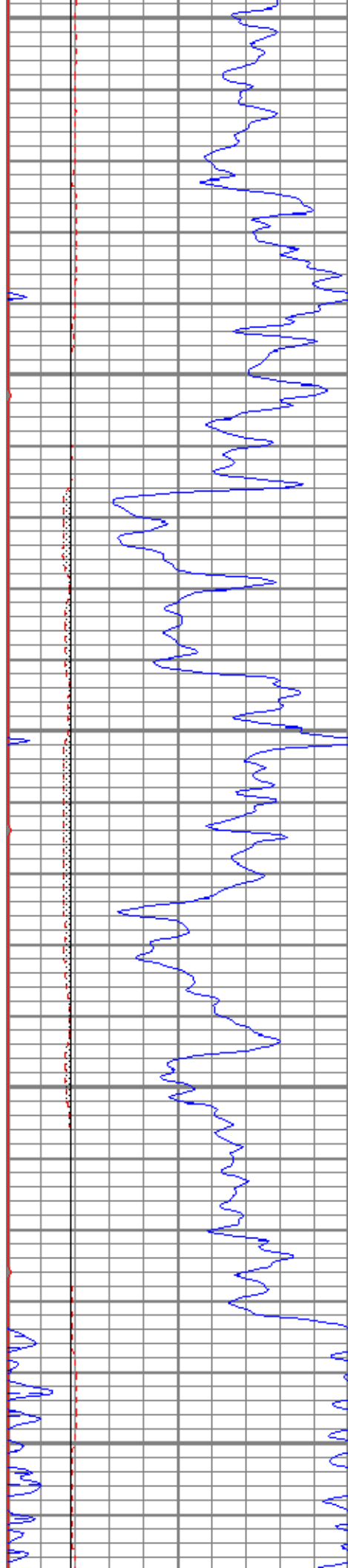
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2200

2250





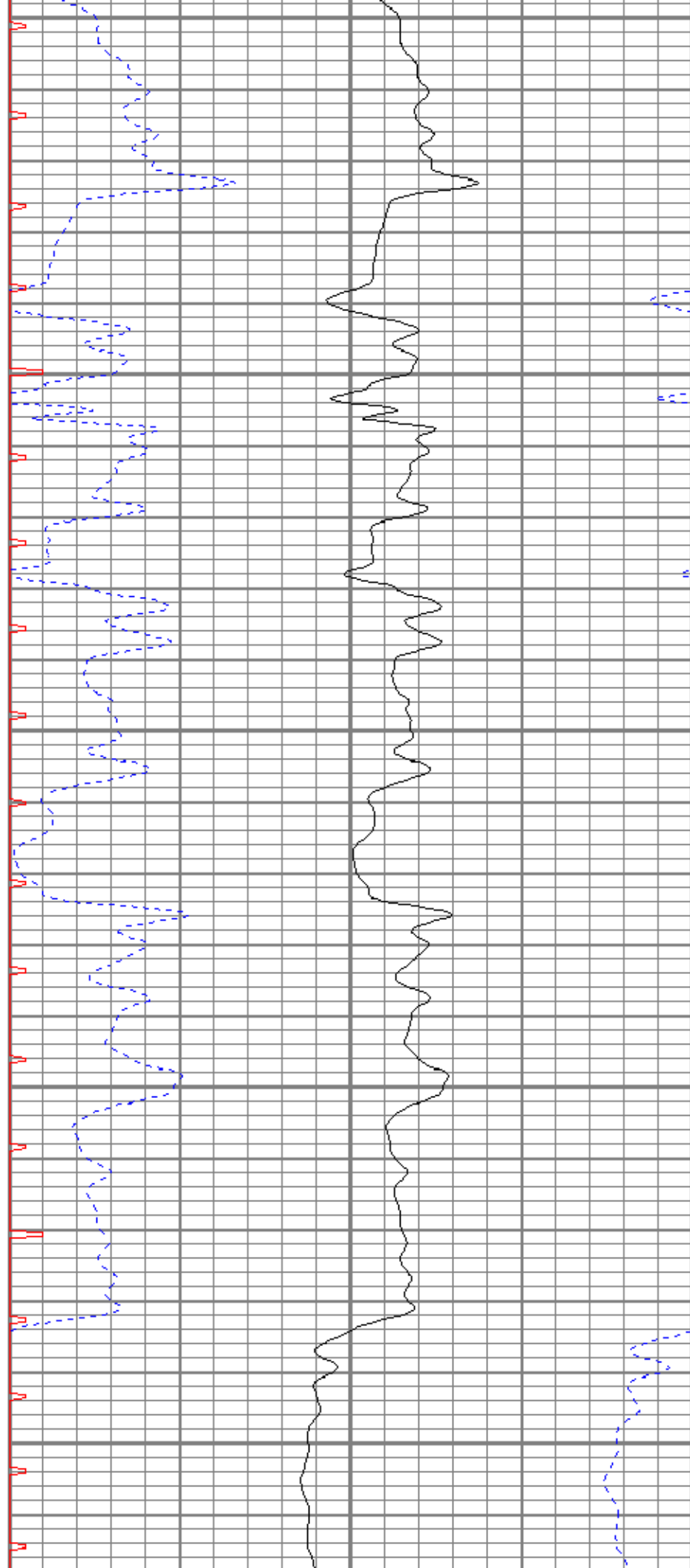
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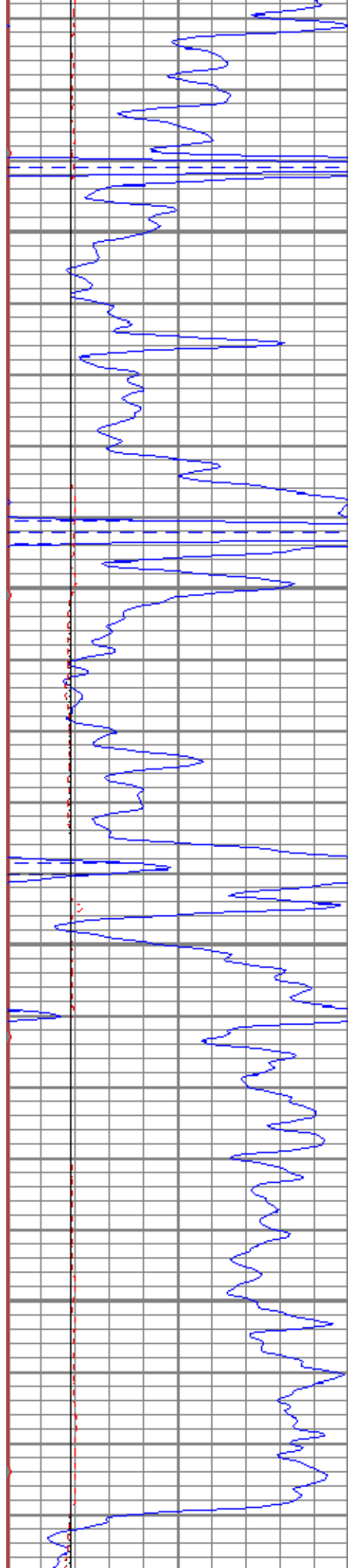
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2450

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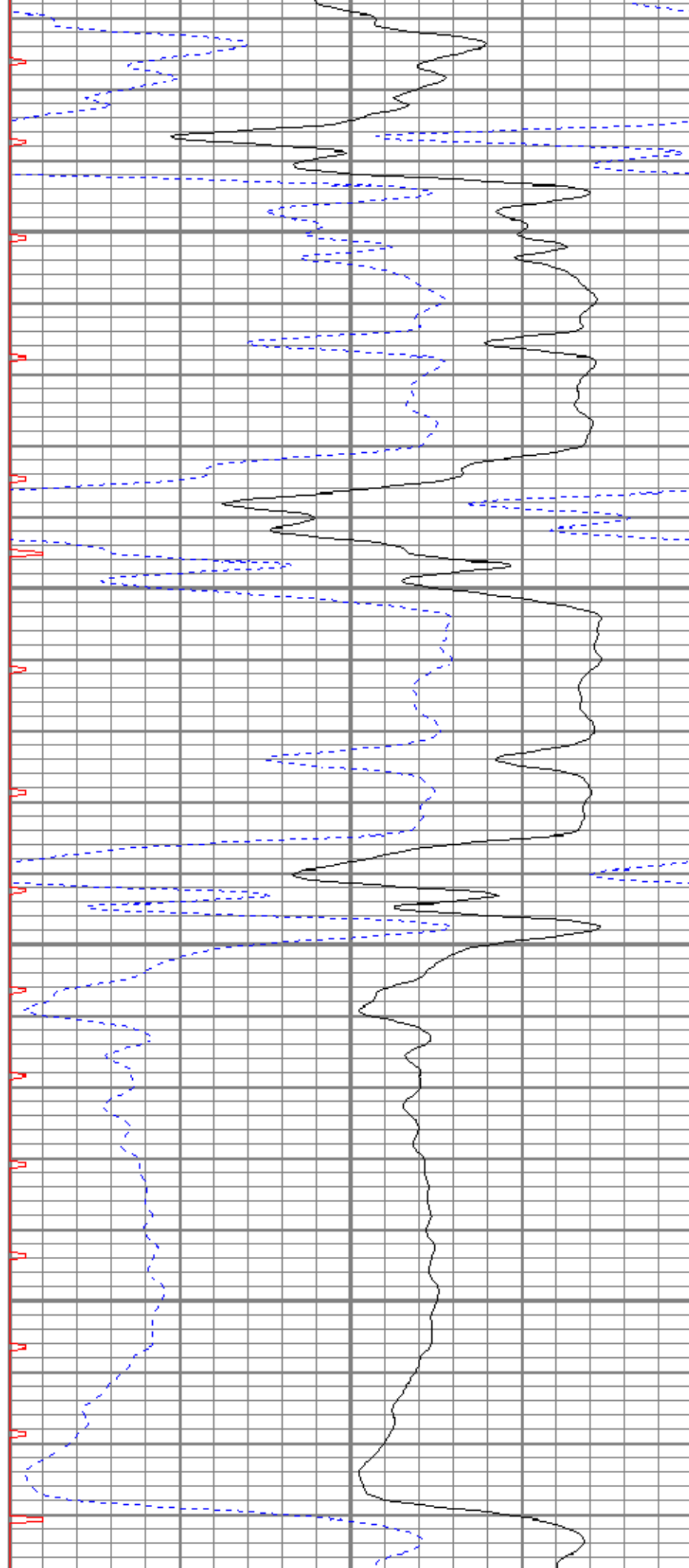


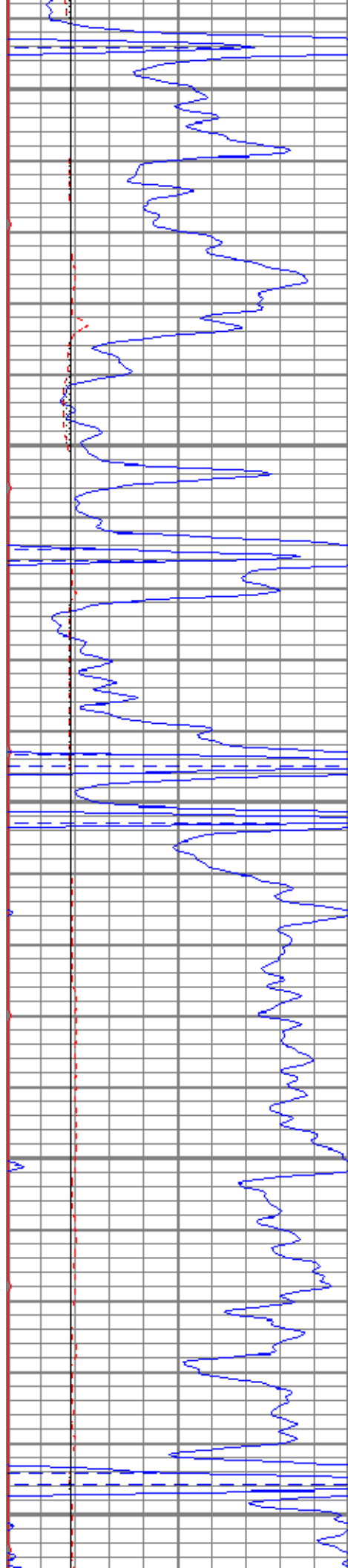
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2600

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2700





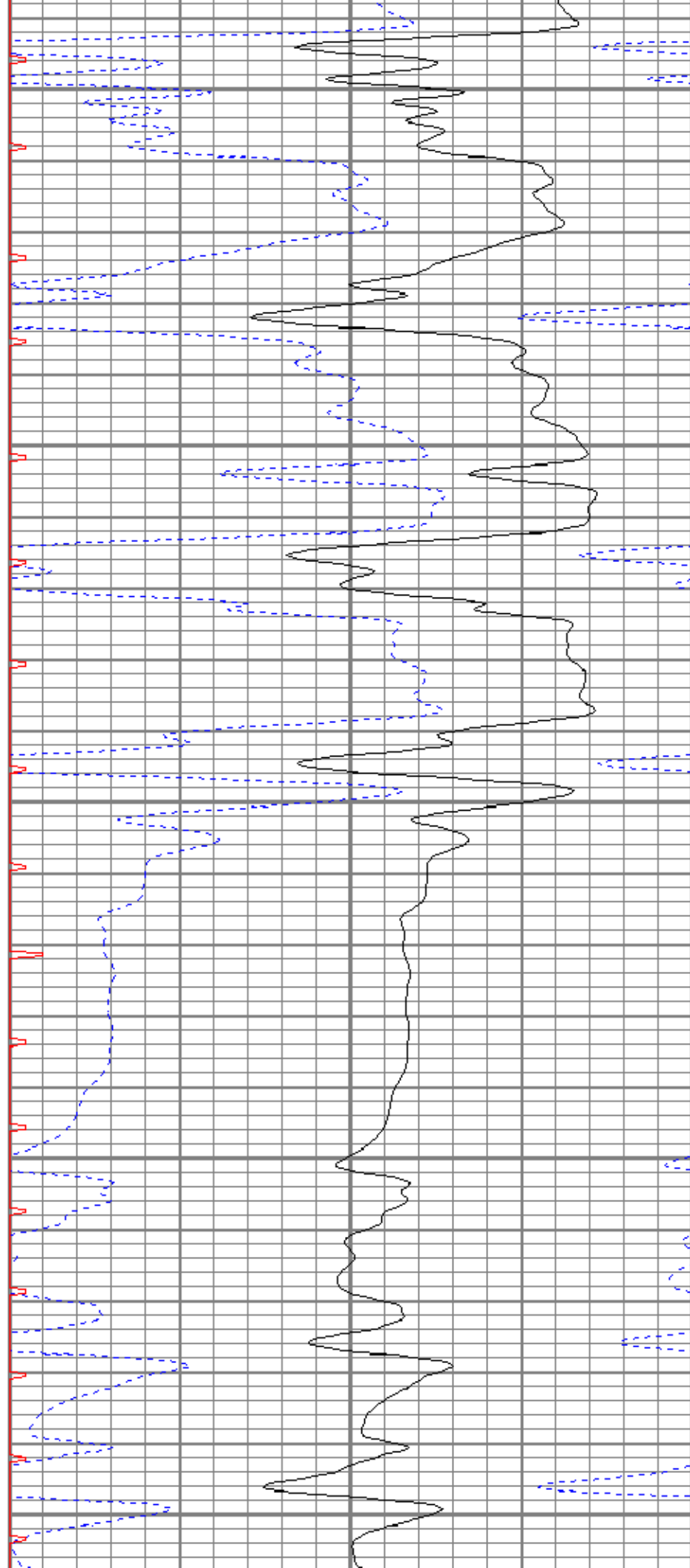
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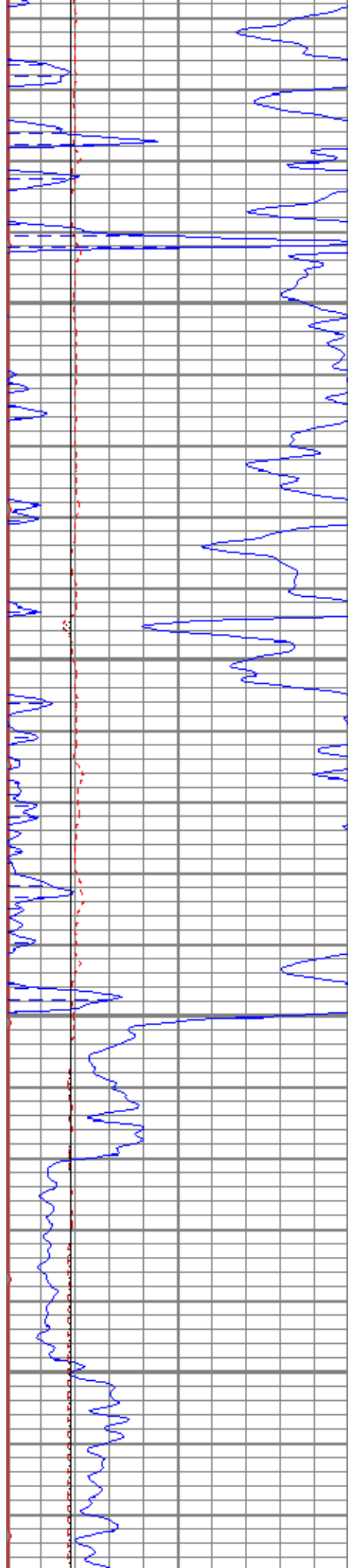
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2900

2950



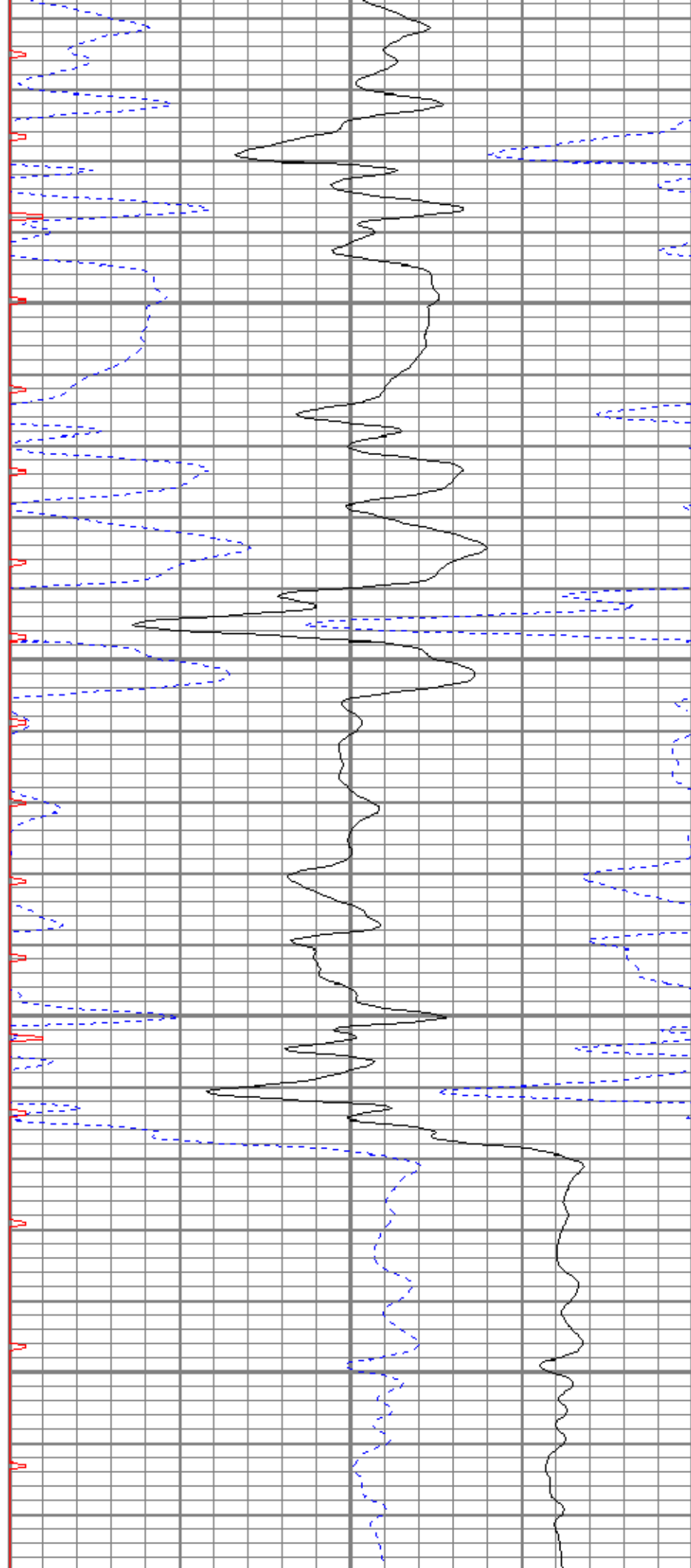


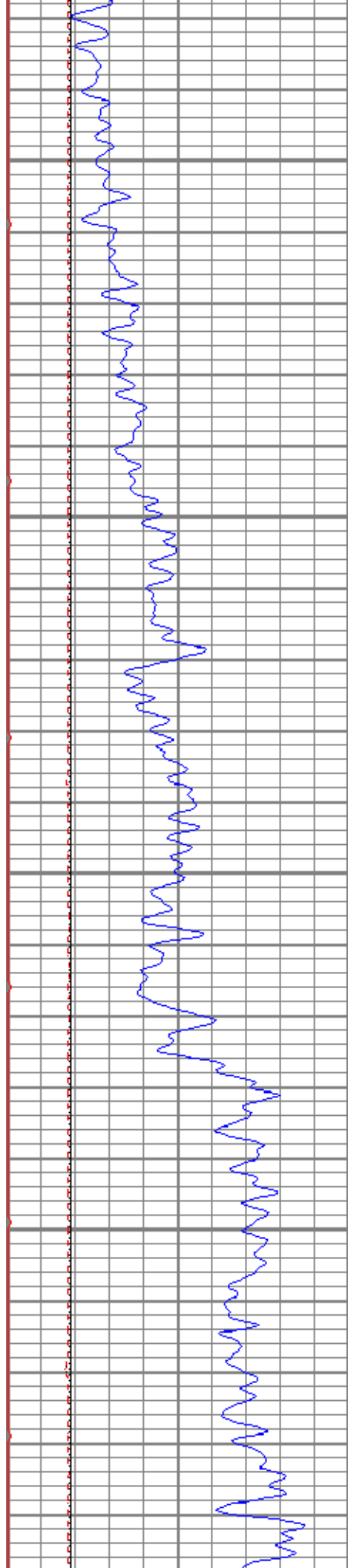
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3050

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3150



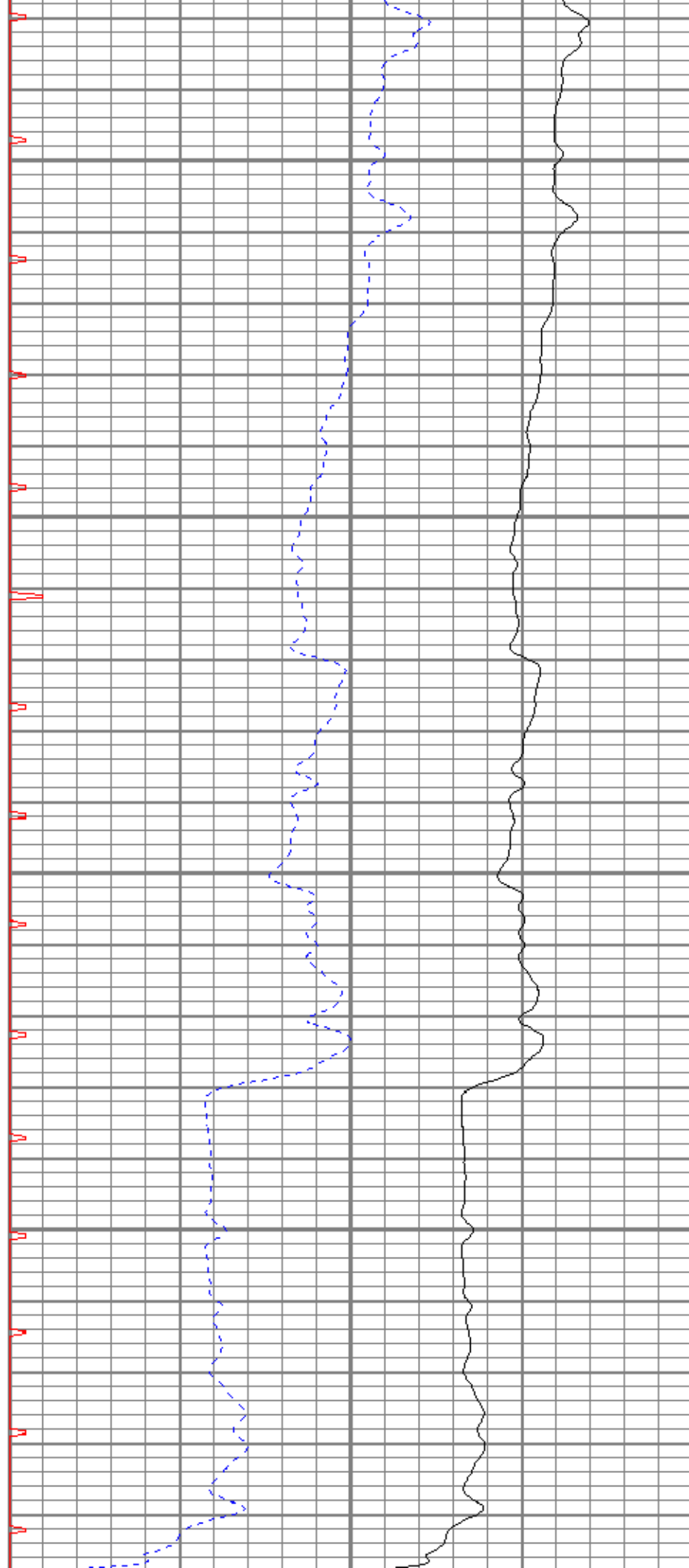


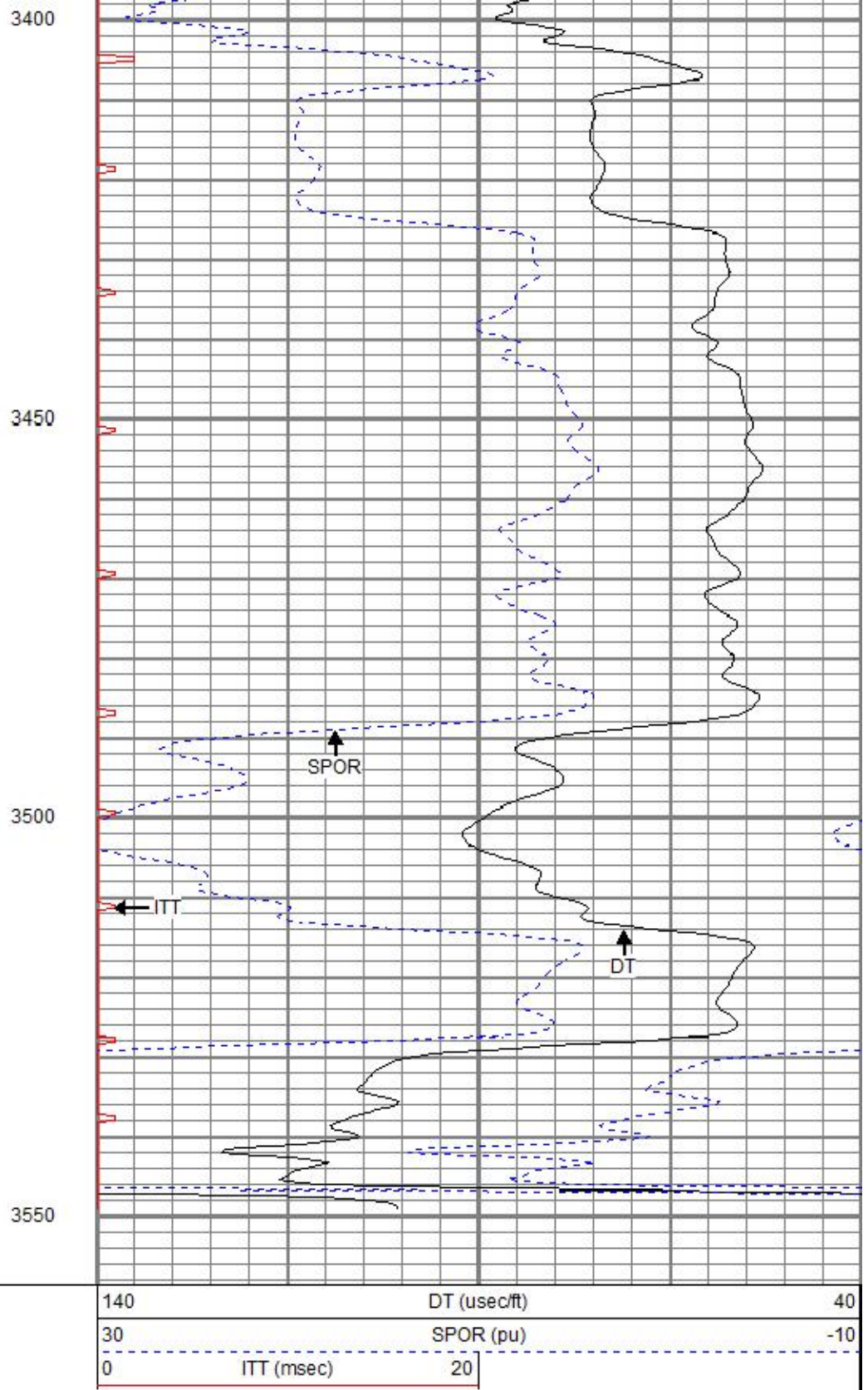
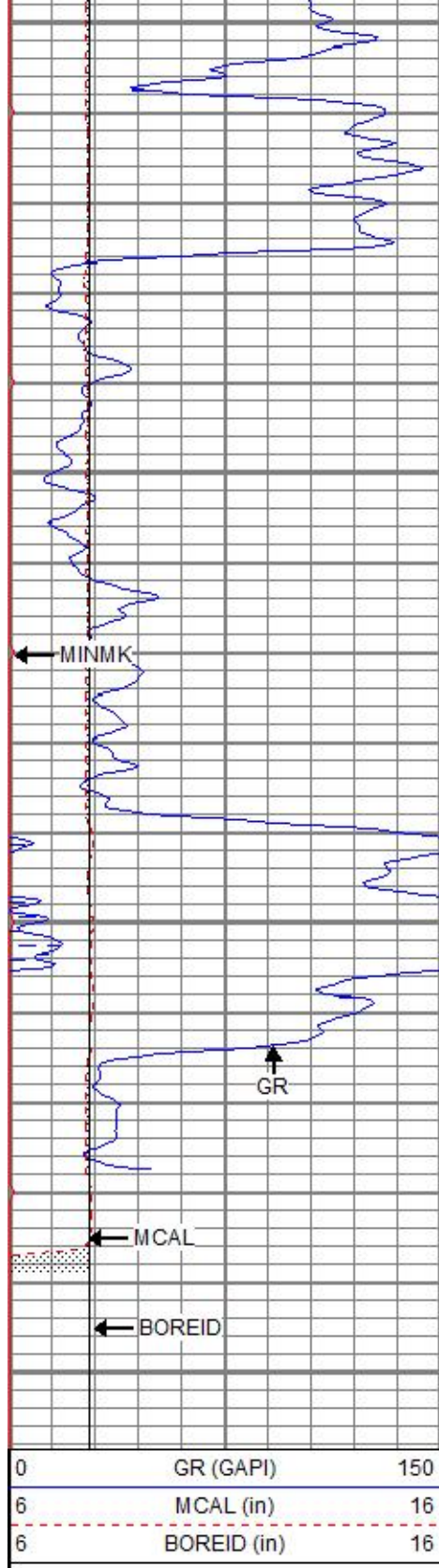
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3250

3300

3350

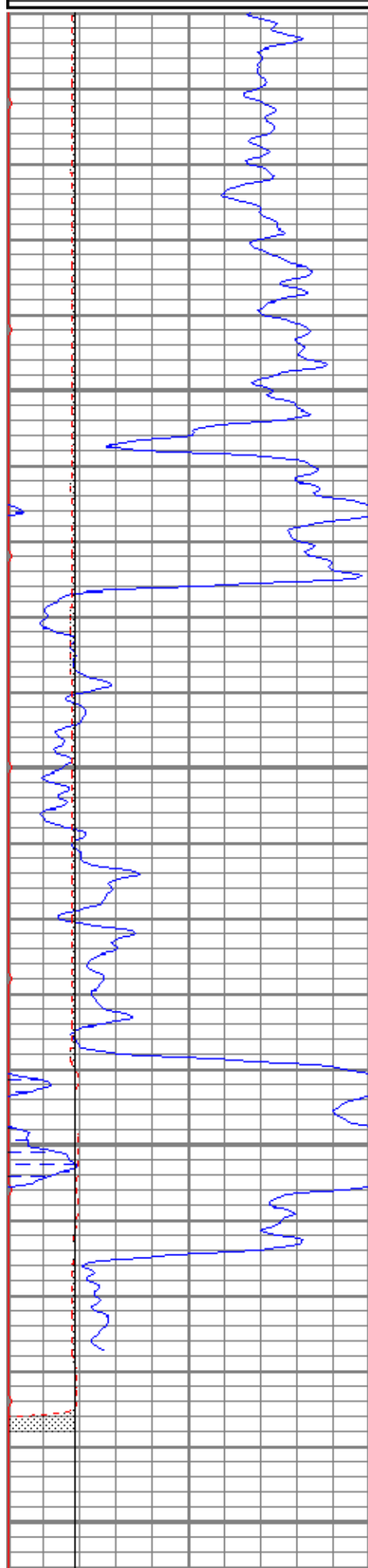




REPEAT SECTION

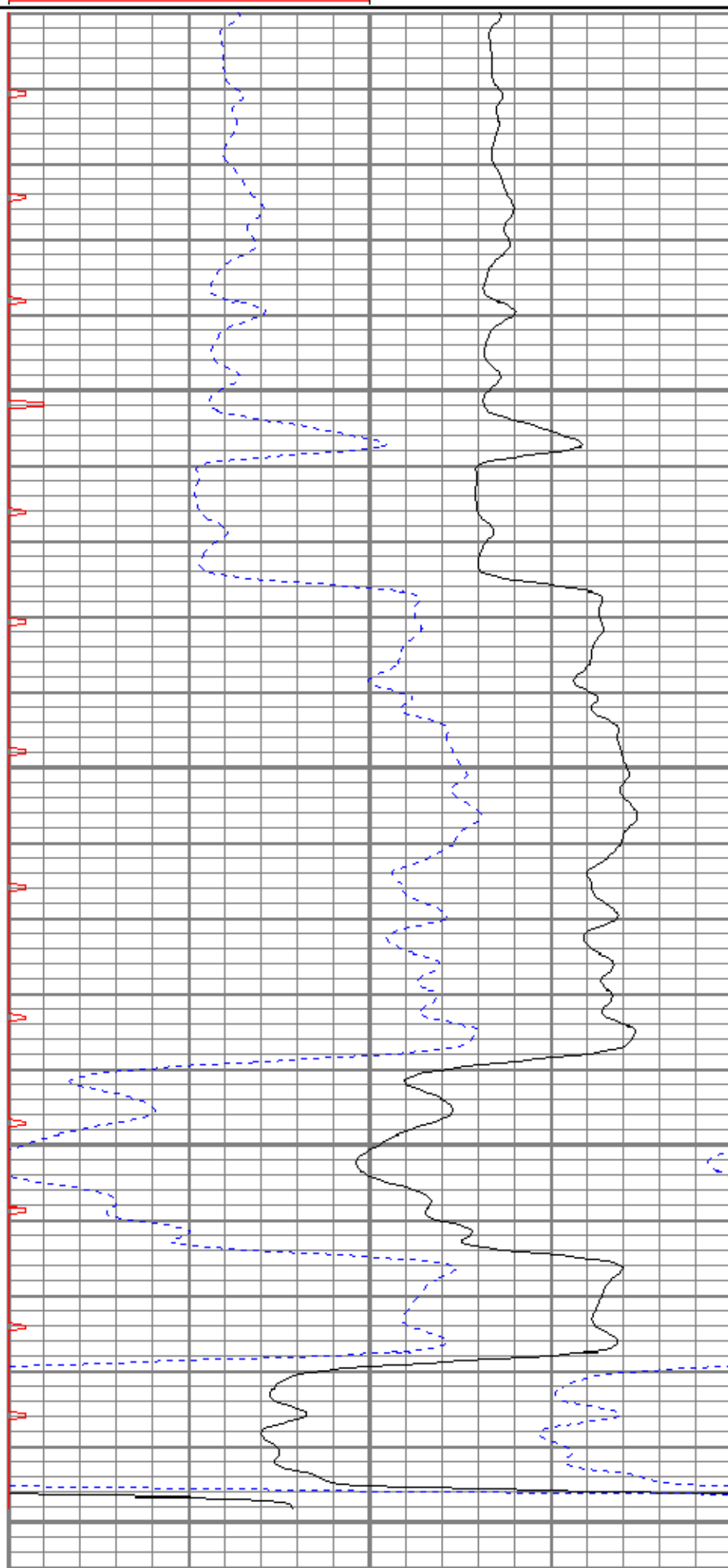
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 Dataset Pathname: pass3
 Presentation Format: kbcs
 Dataset Creation: Tue Oct 17 14:03:03 2017
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16



3300
3400
3450
3500
3550

140	DT (usec/ft)	40
30	SPOR (pu)	-10
0	ITT (msec)	20



0	GR (GAPI)	150	140	DT (usec/ft)	40
6	MCAL (in)	16	30	SPOR (pu)	-10
6	BOREID (in)	16	0	ITT (msec)	20

```
Database File      trlfj4oh.db
Dataset Pathname  pass4
Dataset Creation   Tue Oct 17 14:13:18 2017
```

Serial-Model: 1600-Pengo
Performed: Tue Oct 17 14:01:39 2017

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	-0.0036	0.5708	V	0.0000	10.0000	Ohm-m	17.4103	0.0625
Inverse	-0.0021	0.7420	V	0.0000	8.2000	Ohm-m	11.0207	0.0229
Caliper	1.0301	2.2816	V	6.4000	10.0000	in	2.8767	3.4367

Serial Number:	2001	
Tool Model:	OH	
Performed:	Thu Aug 03 06:10:54 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	28.34		CHD-None	0.75	1.50	5.00
			GR-OH (2001) 2001	3.56	3.25	40.00
MCAL	21.51		ML-Pengo (1600)	6.97	3.50	100.00
MI	21.51					
MN	21.51					
WVF4	14.25		SLT-G (372) Sonic	15.71	3.50	250.00
WVF3	13.25					
WVF2	10.25					
WVF1	9.25		CENT-OHlong Open Hole long Centralizer	4.50	3.50	50.00

Dataset: trlfj4oh.db: field/well/run1/pass4
Total length: 31.49 ft
Total weight: 445.00 lb
O.D.: 3.50 in