



DUAL INDUCTION LOG

Company	Palomino Petroleum	Location:	API #: 15 109 21577	Other Services CDNL ML
Well	Hillery #1	Permanent Datum	SEC 18 TWP 14S RGE 35W	
Field	Wildcat	Log Measured From	2280' FSL & 2031' FWL SW-NE-NE-SW	Elevation K.B. 3200' D.F. 3199' G.L. 3194'
County	Logan	Drilling Measured From	KB	
State	Kansas			
Date	12-12-18	Run Number	One	
Depth Driller	4896'	Depth Driller	4896'	
Depth Logger	4896'	Depth Logger	4896'	
Bottom Logged Interval	4894'	Bottom Logged Interval	4894'	
Top Log Interval	200'	Top Log Interval	200'	
Casing Driller	8 5/8" @ 220'	Casing Driller	8 5/8" @ 220'	
Casing Logger	220'	Casing Logger	220'	
Bit Size	7 7/8"	Bit Size	7 7/8"	
Type Fluid in Hole	Chemical	Type Fluid in Hole	Chemical	
Density / Viscosity	8.7772	Density / Viscosity	8.7772	
pH / Fluid Loss	10.5/8.0	pH / Fluid Loss	10.5/8.0	
Source of Sample	Pit	Source of Sample	Chlorides 6000 PPM	
Rm @ Meas. Temp	0.9@72degf	Rm @ Meas. Temp	0.9@72degf	
Rmf @ Meas. Temp	0.68@72degf	Rmf @ Meas. Temp	0.68@72degf	
Rmc @ Meas. Temp	1.1@72degf	Rmc @ Meas. Temp	1.1@72degf	
Source of Rmf / Rmc	Calculated	Source of Rmf / Rmc	Calculated	
Rm @ BHT	0.58@111degf	Rm @ BHT	0.58@111degf	
Time Circulation Stopped	7:30 a.m	Time Circulation Stopped	7:30 a.m	
Time Logger on Bottom	10:30 a.m	Time Logger on Bottom	10:30 a.m	
Maximum Recorded Temperature	111degf	Maximum Recorded Temperature	111degf	
Equipment Number	T-127	Equipment Number	T-127	
Location	Hays, KS	Location	Hays, KS	
Recorded By	C. Patterson	Recorded By	C. Patterson	
Witnessed By	Mr. Ryan Seib	Witnessed By	Mr. Ryan Seib	
	Mr. Glen Dinkel		Mr. Glen Dinkel	

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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

Russell Springs, KS South to West on KS-25 3 mi. to Co Rd 240,
Then South on Co Rd. 240 3.6 mi. to Kiowa Rd, Then West on Kiowa Rd. 2 mi. to Co Rd 220,
South on Co Rd. 220 0.5 mi. East into Location

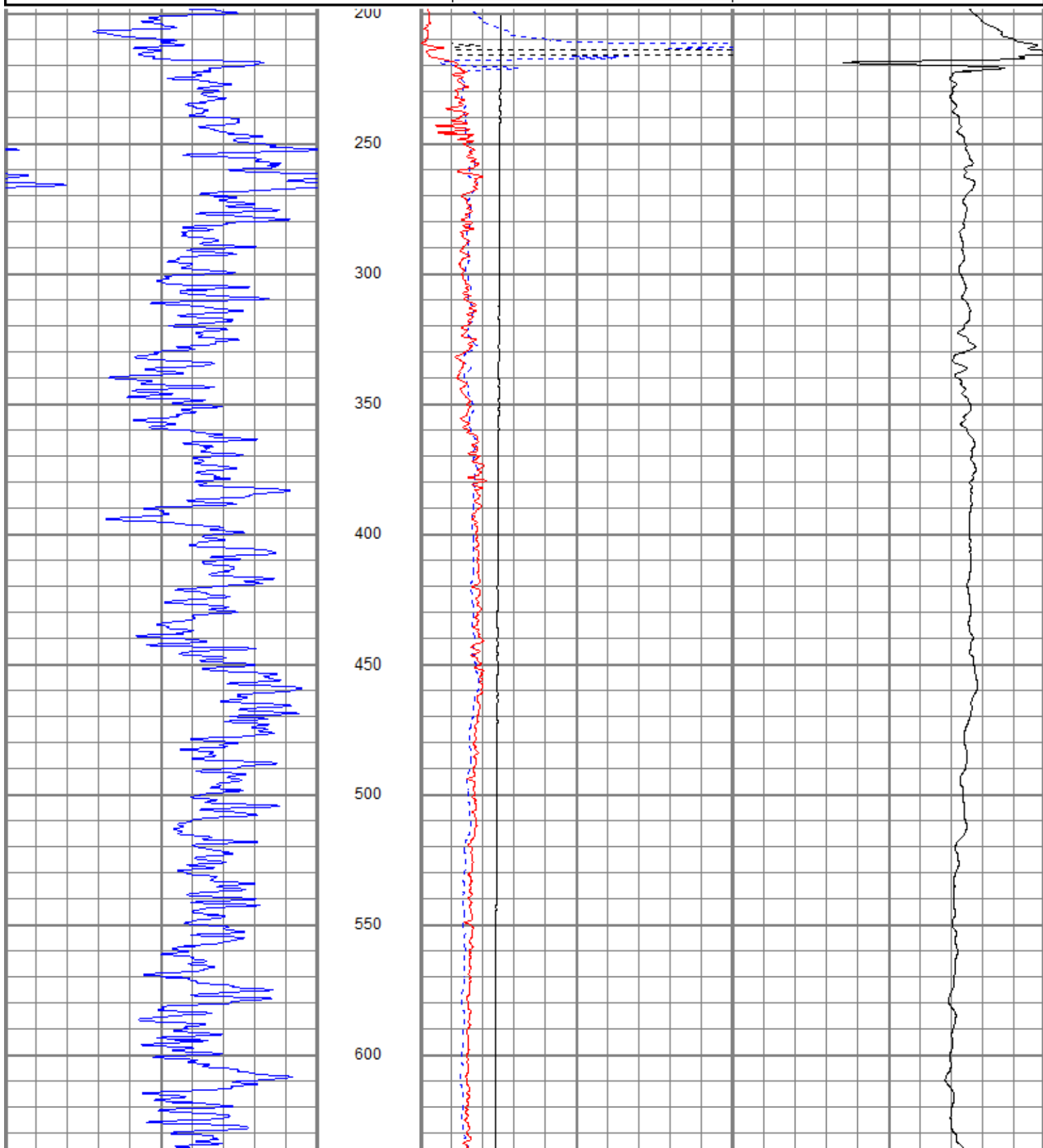
Thanks for using Gemini Wireline LLC
785-625-1182

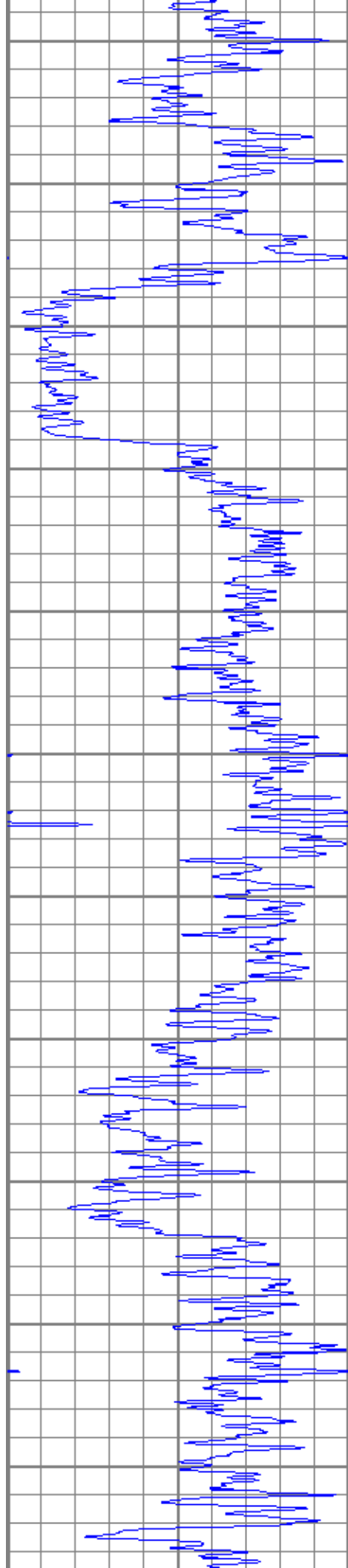


MAIN PASS

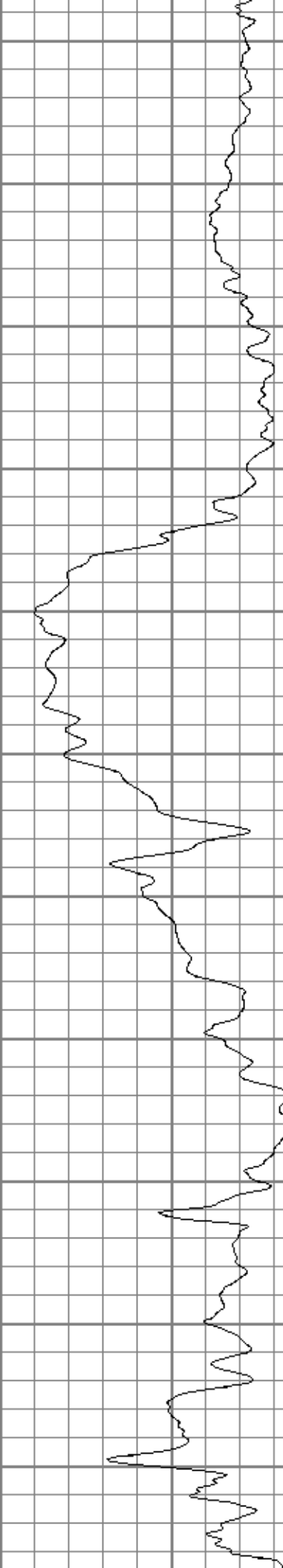
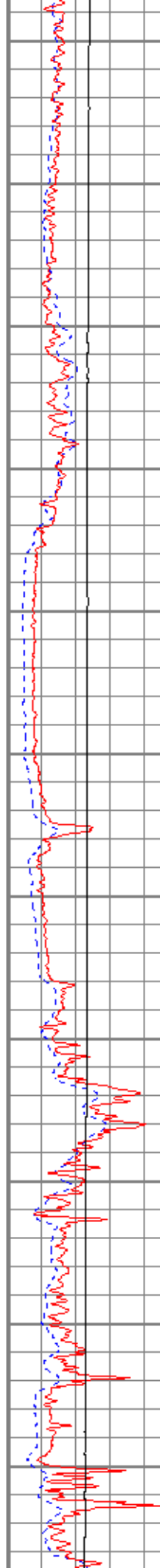
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Dataset Pathname pass3.1
Presentation Format kdi11inn
Dataset Creation Wed Dec 12 12:54:47 2018
Charted by Depth in Feet scaled 1:600

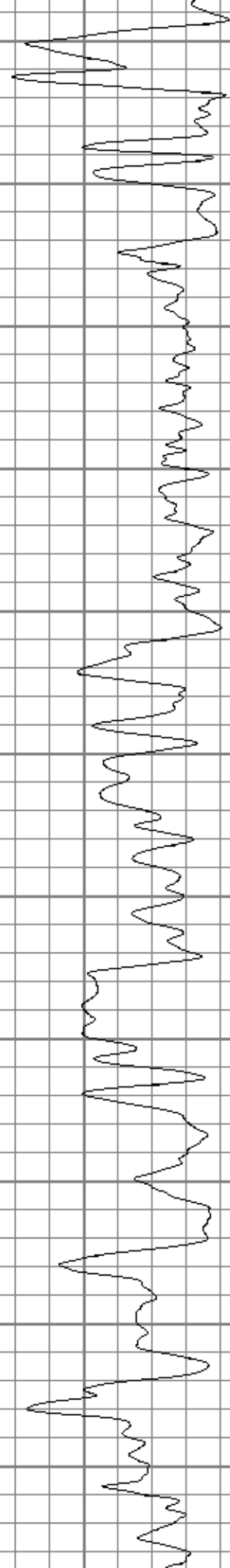
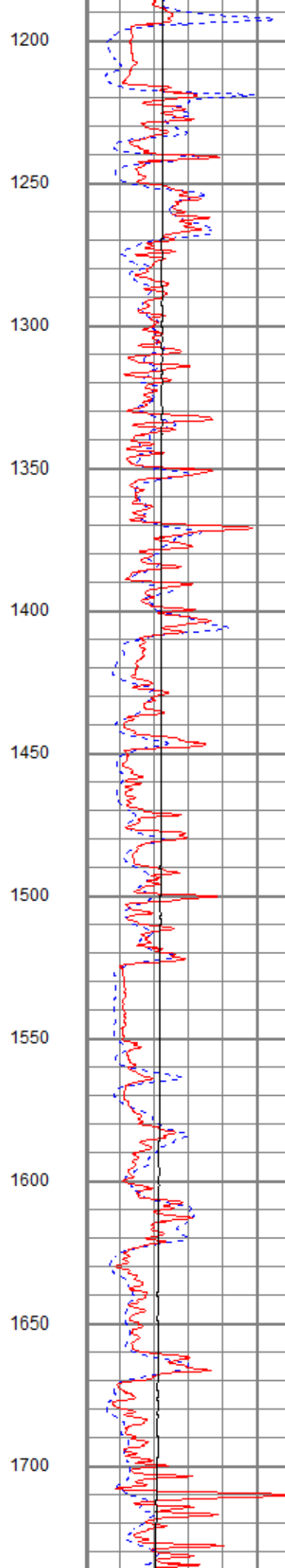
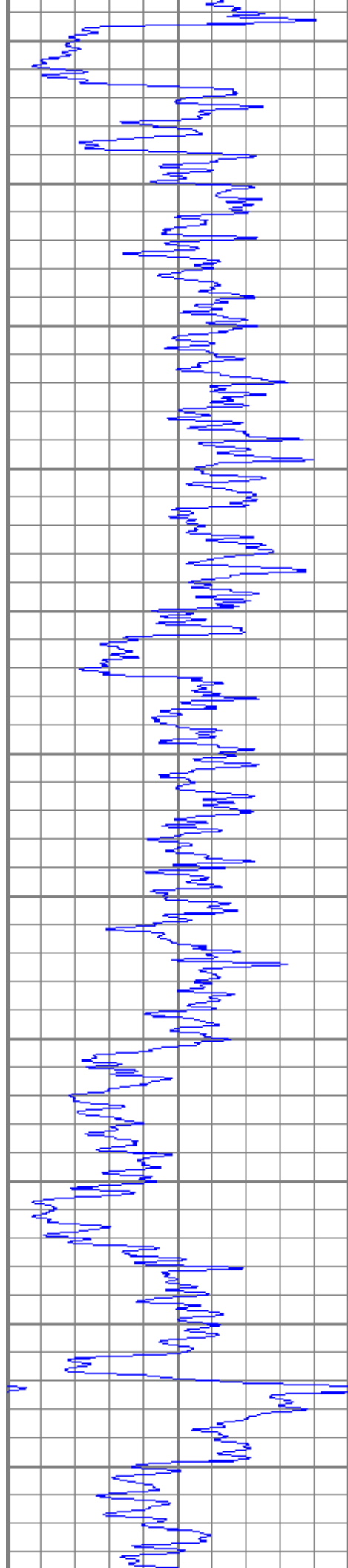
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			10000	LTEN (lb)	0
0			RILD (Ohm-m)	50	
0			RLL3 (Ohm-m)	50	
50			RILD x 10 (Ohm-m)	500	
50			RLL3 x 10 (Ohm-m)	500	

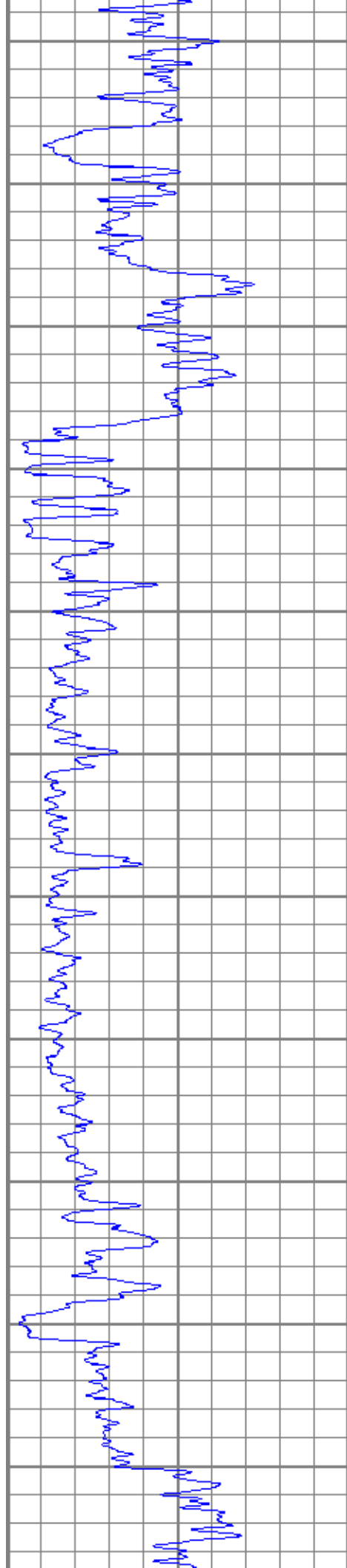




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750
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1950

2000

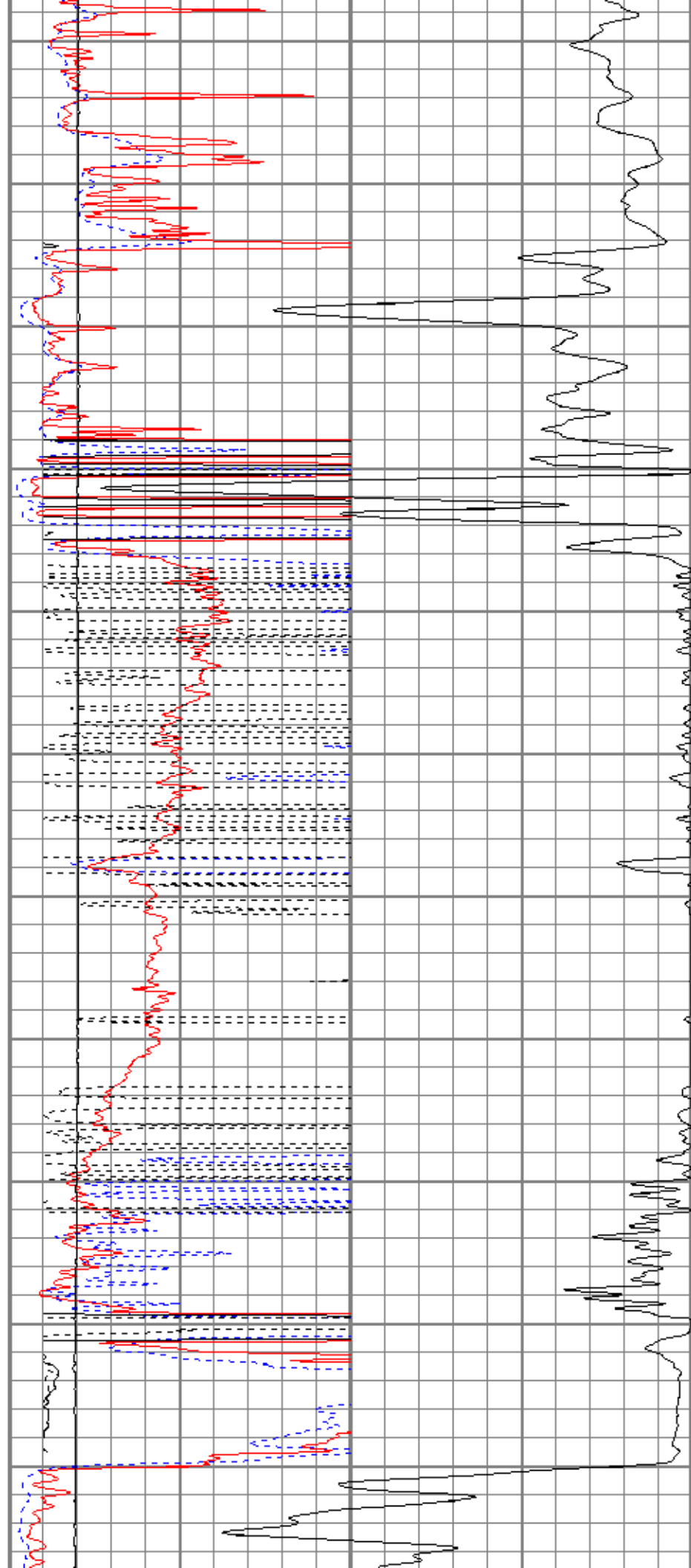
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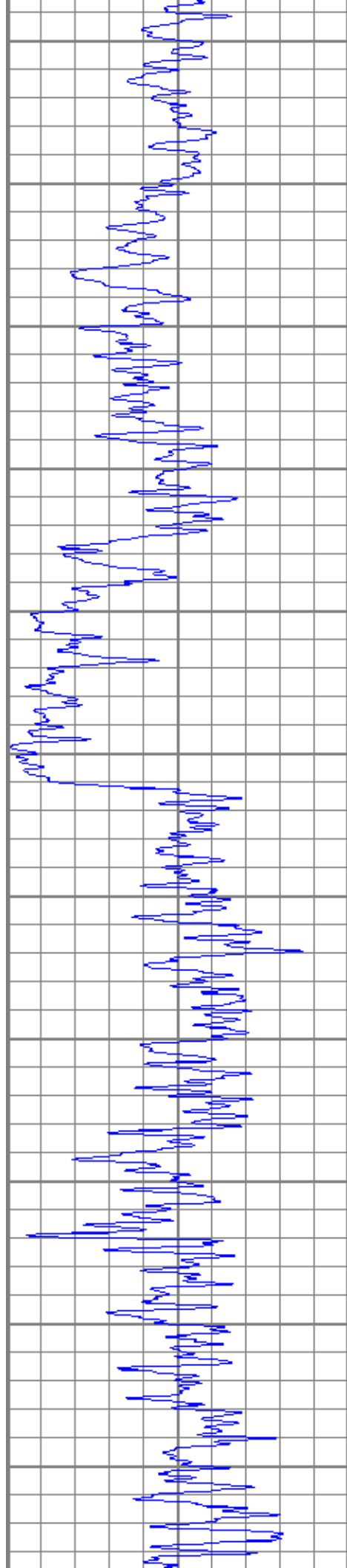
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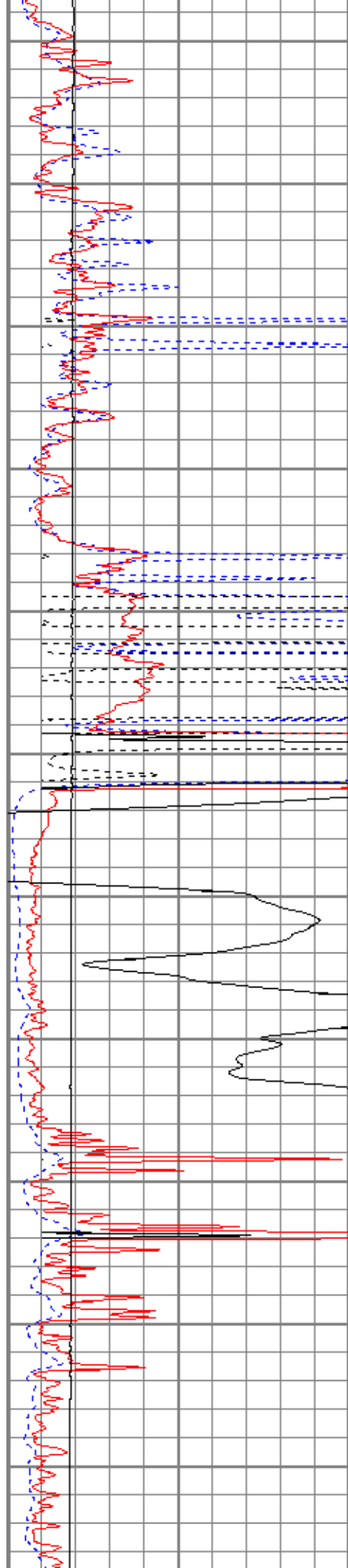
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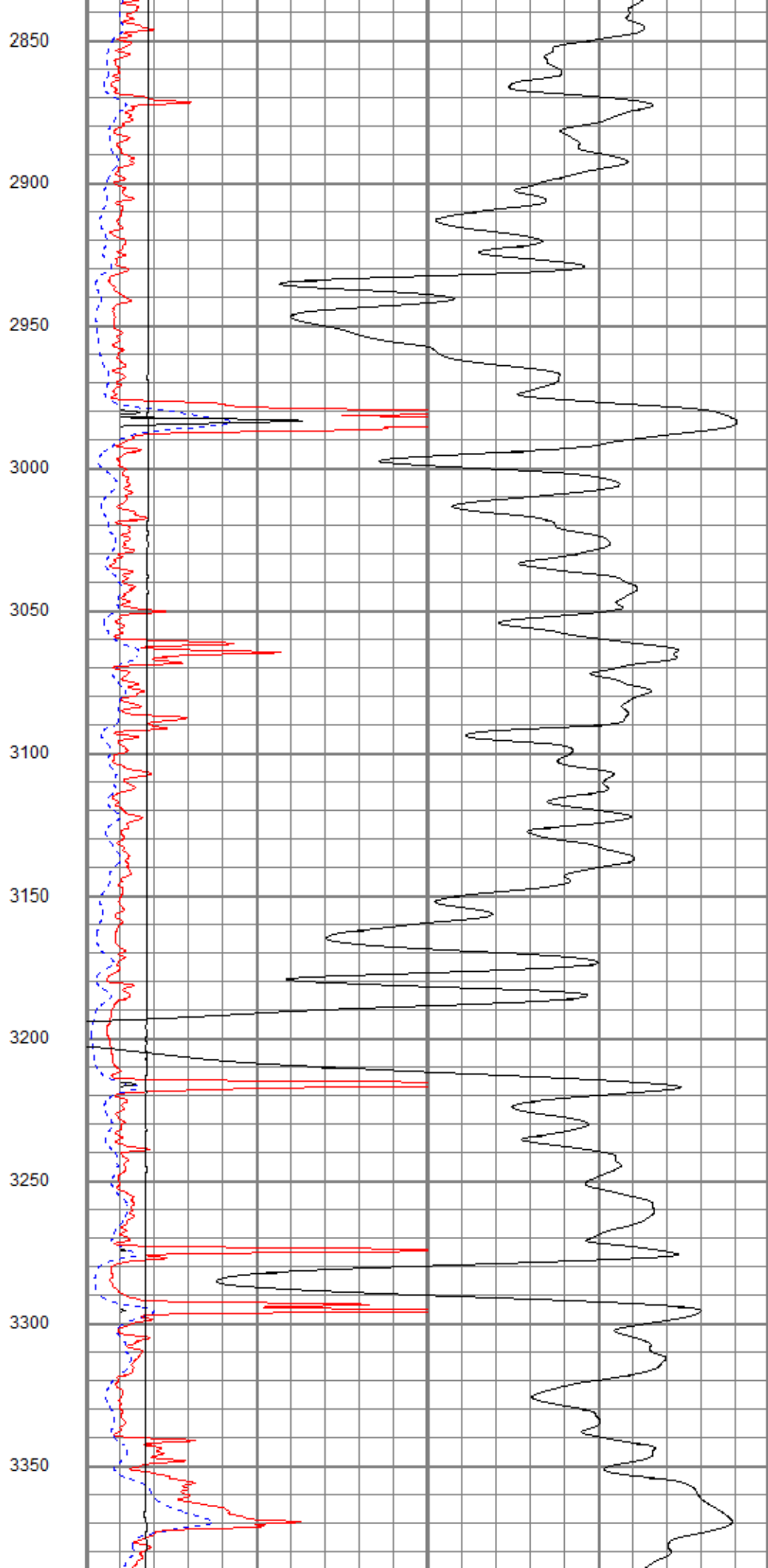
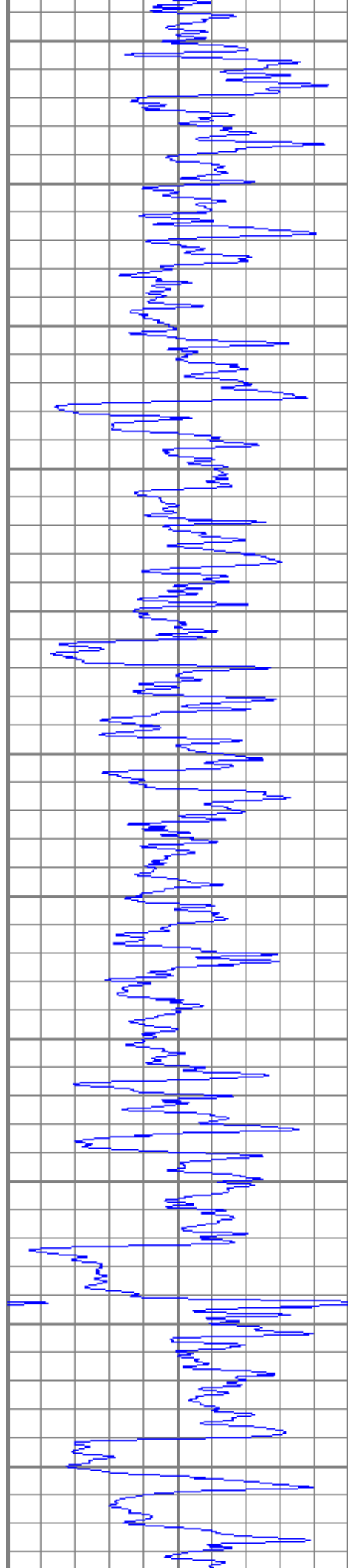
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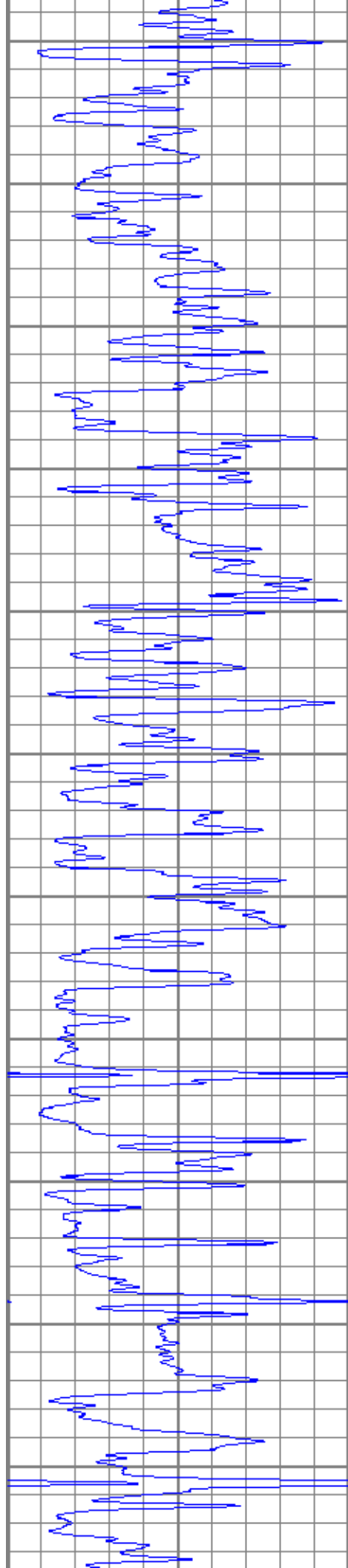




2300
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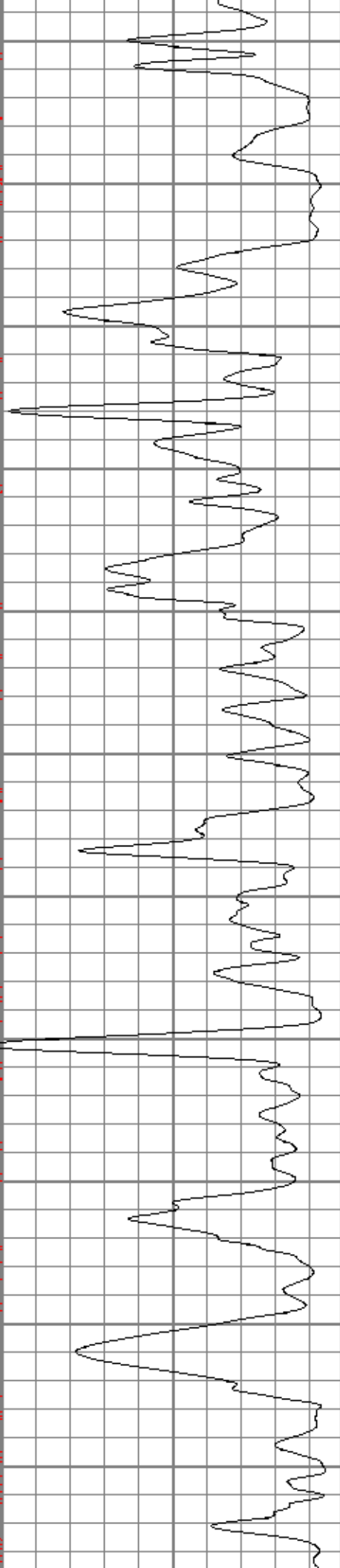
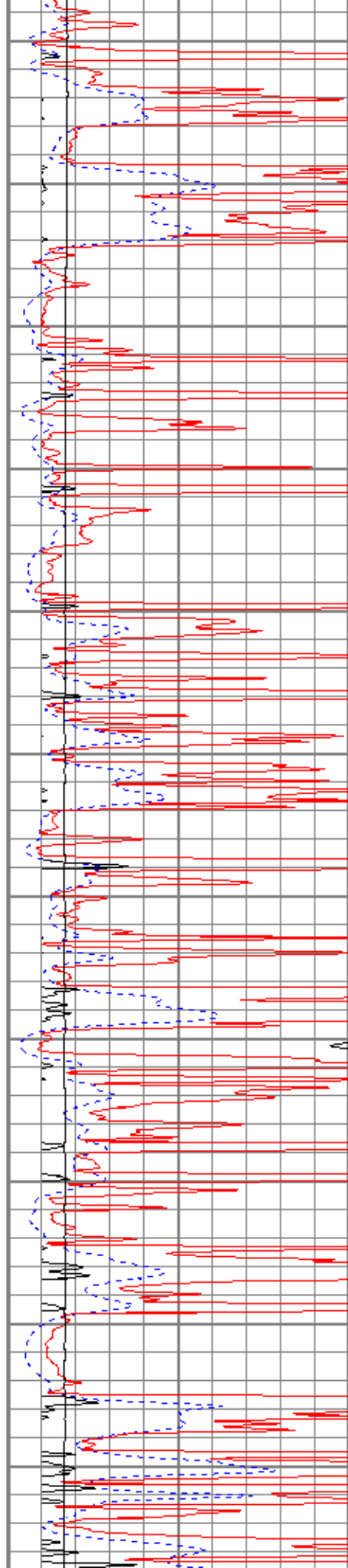
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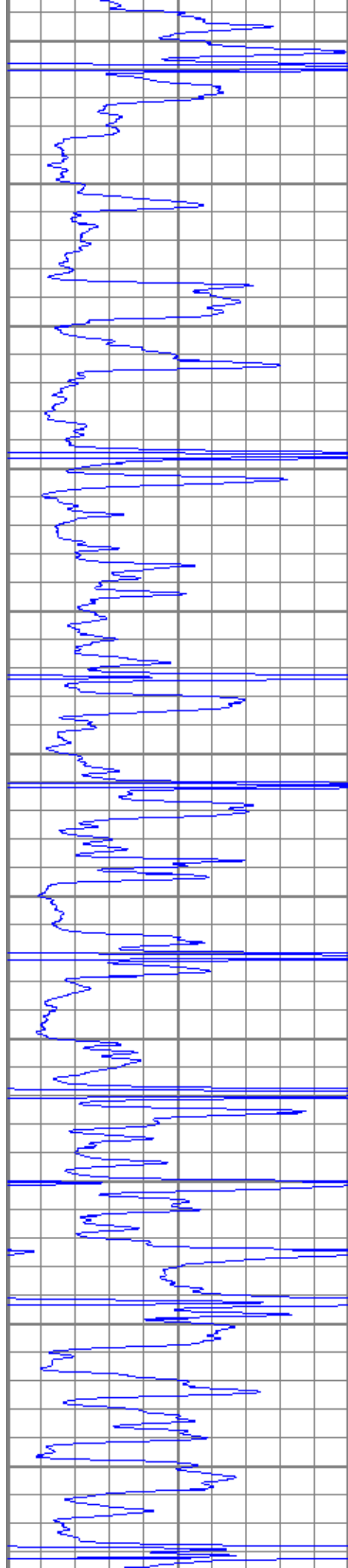
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4000

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4100

4150

4200

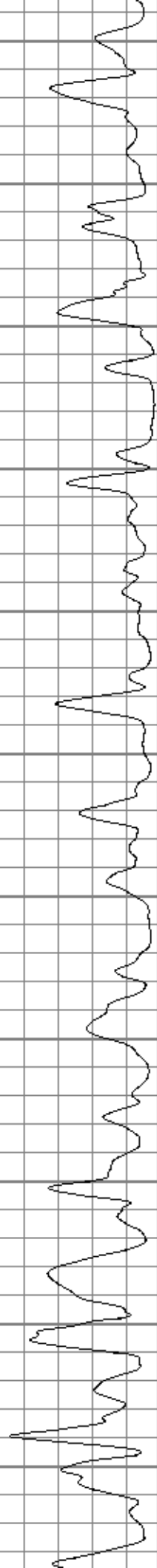
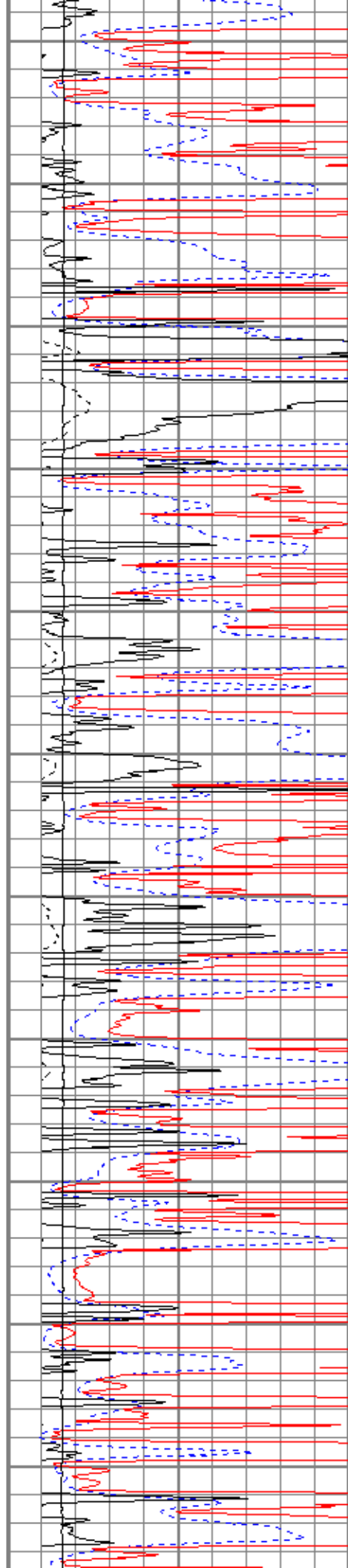
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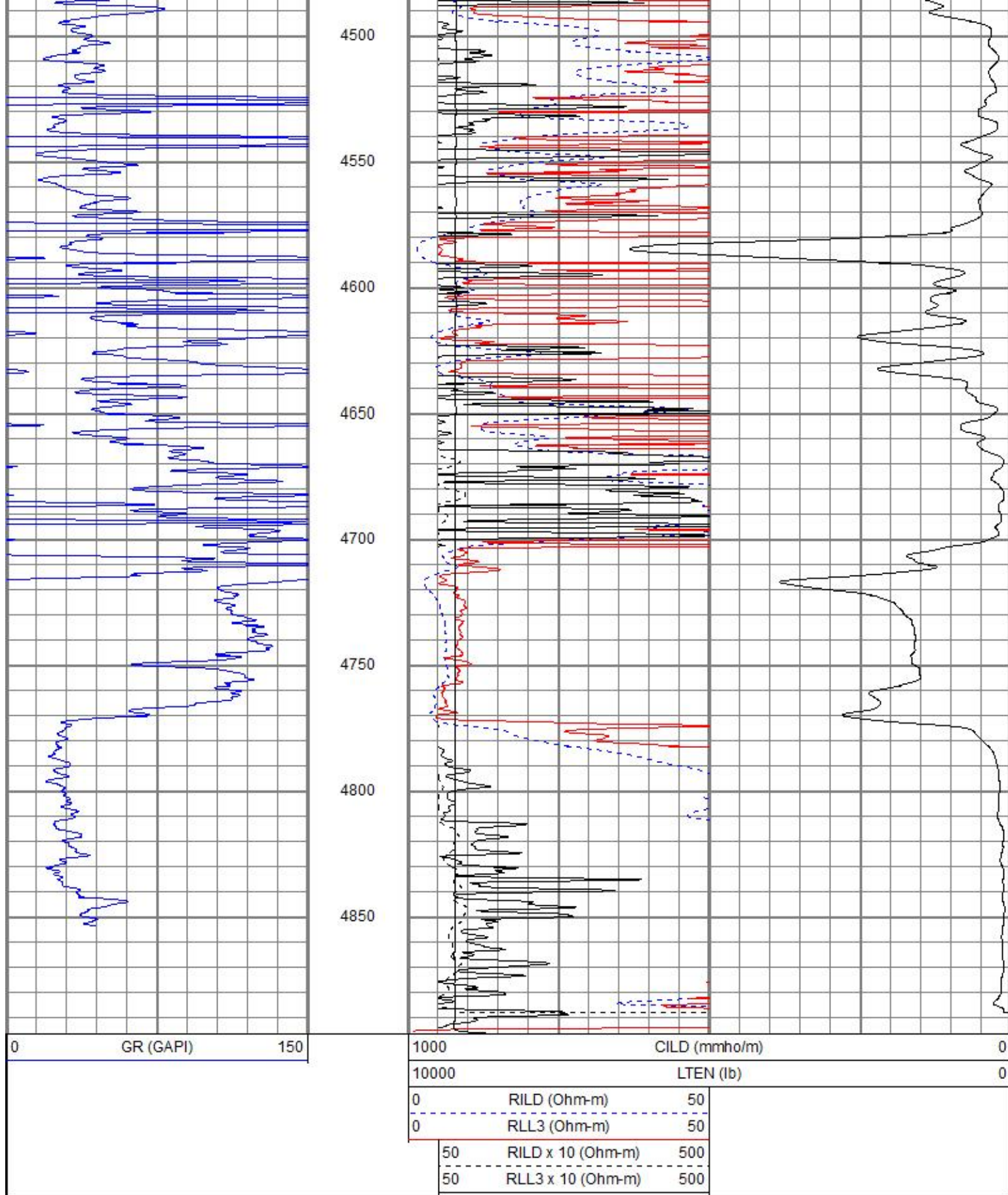
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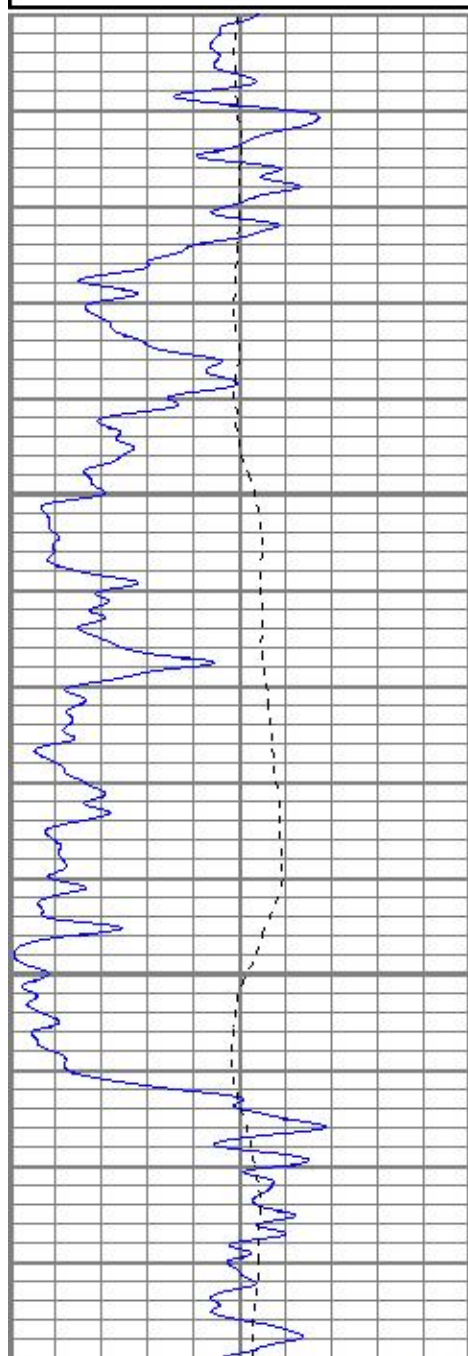


MAIN PASS

Dataset Pathname pass3.1
 Presentation Format kdil
 Dataset Creation Wed Dec 12 12:54:47 2018
 Charted by Depth in Feet scaled 1:240

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

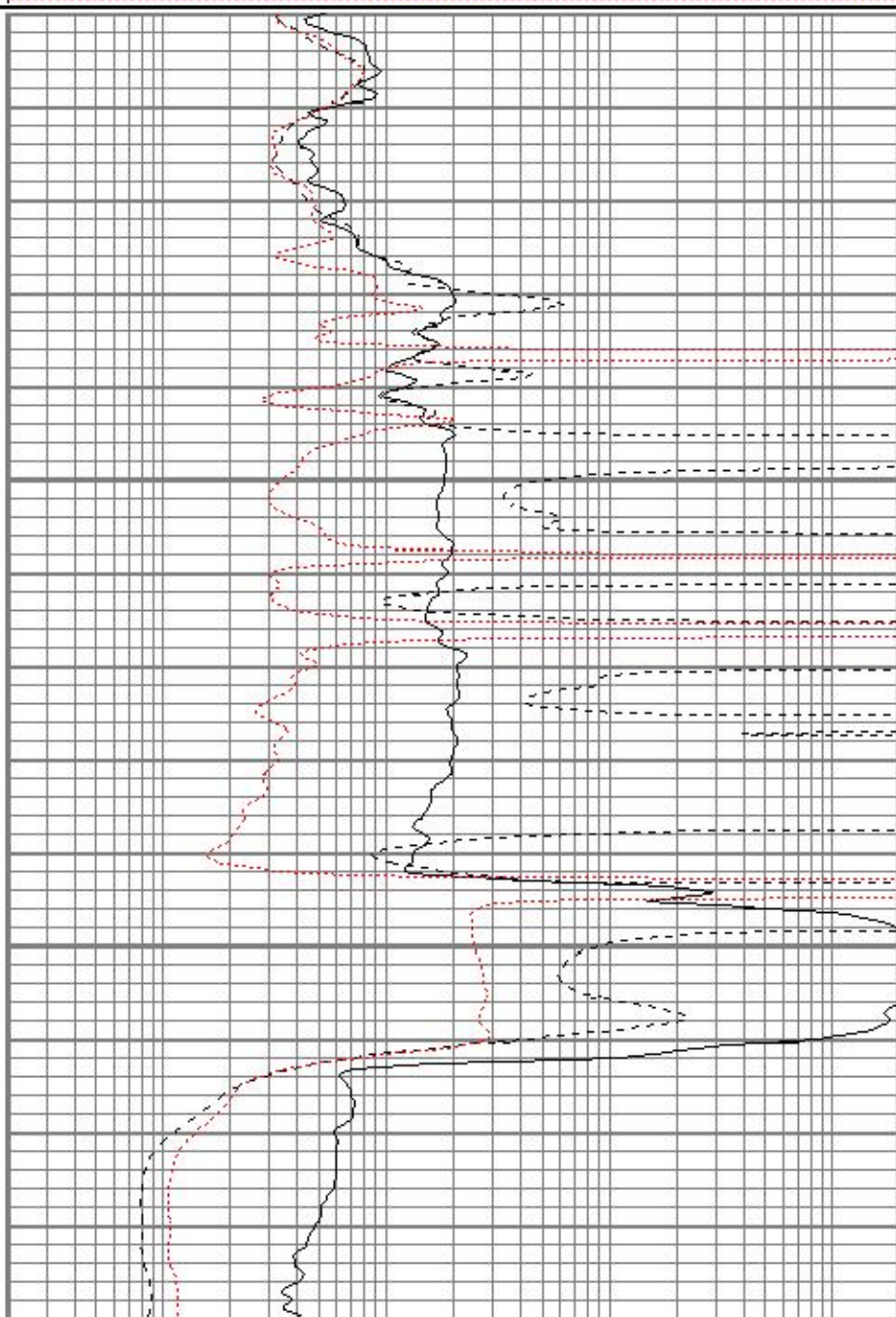
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



2400

2500

2550



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

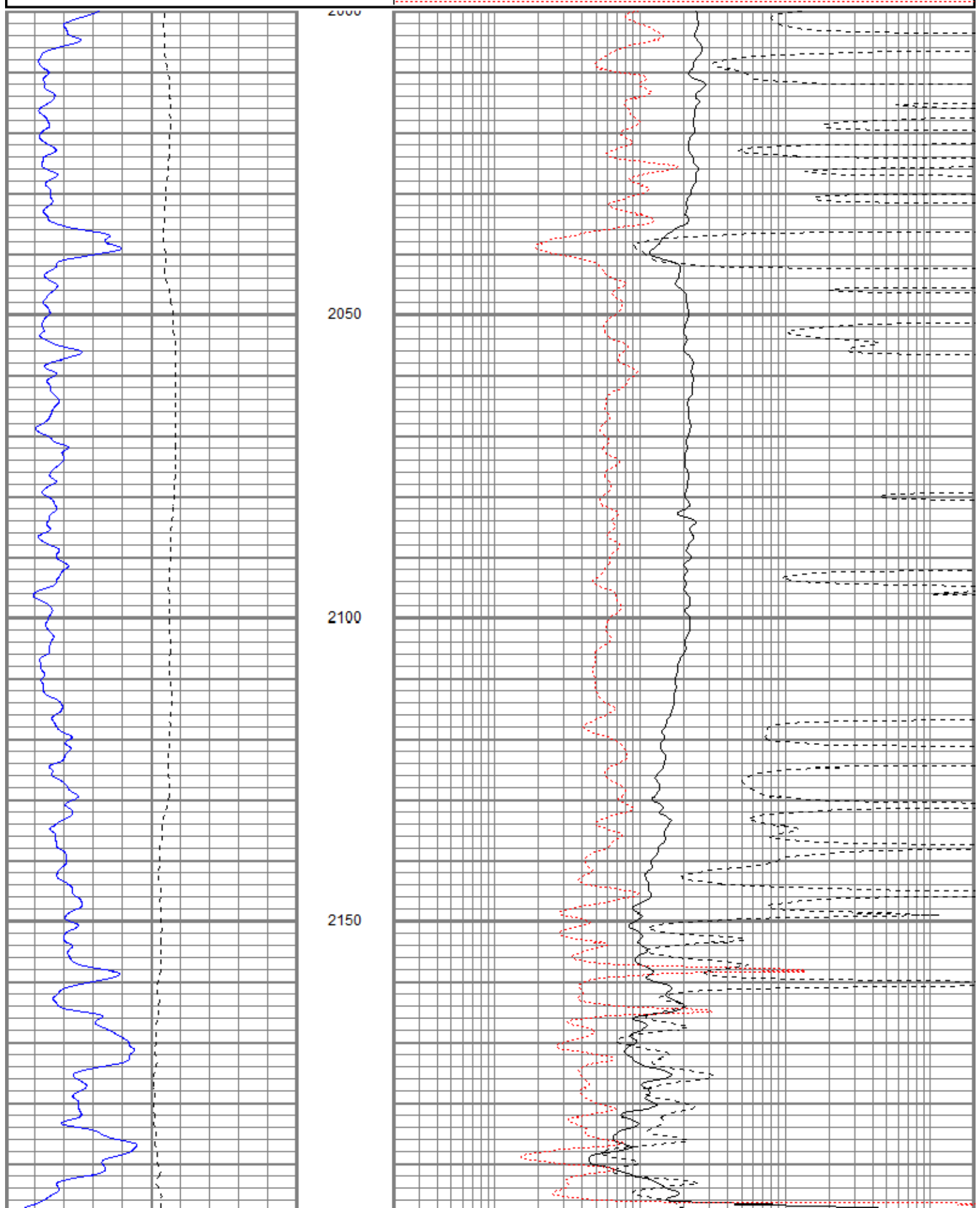


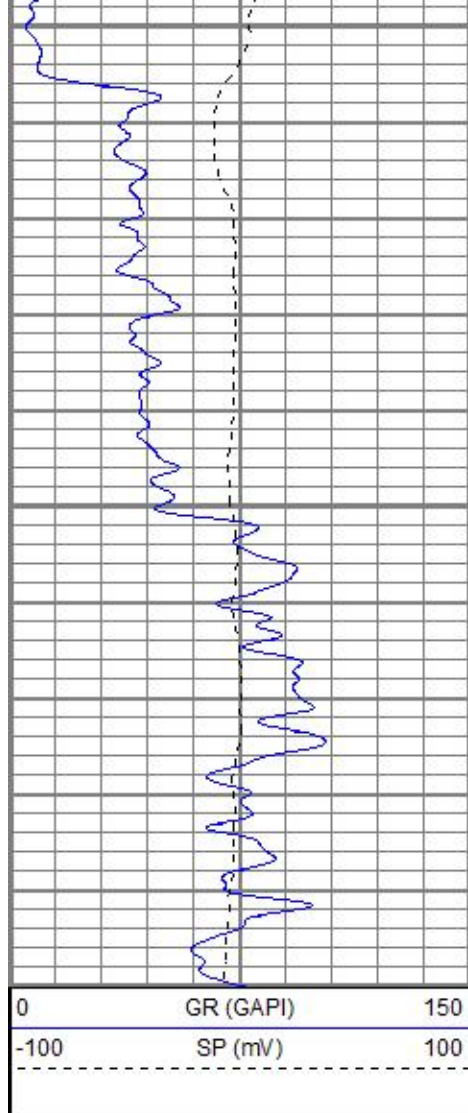
MAIN PASS

Database File pphillery#1oh.db
 Dataset Pathname pass3.1
 Presentation Format kdil

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

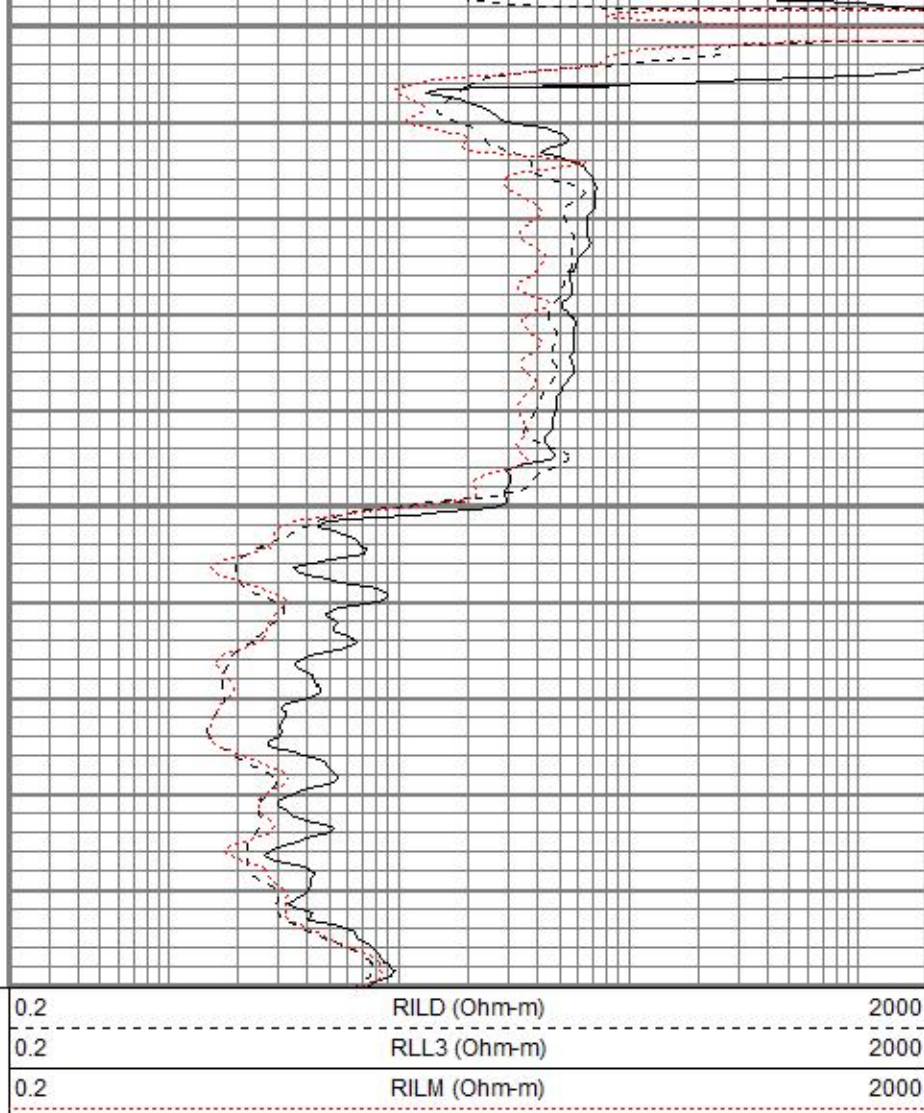




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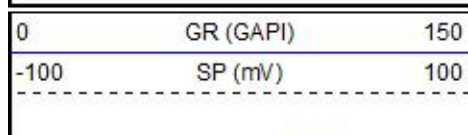
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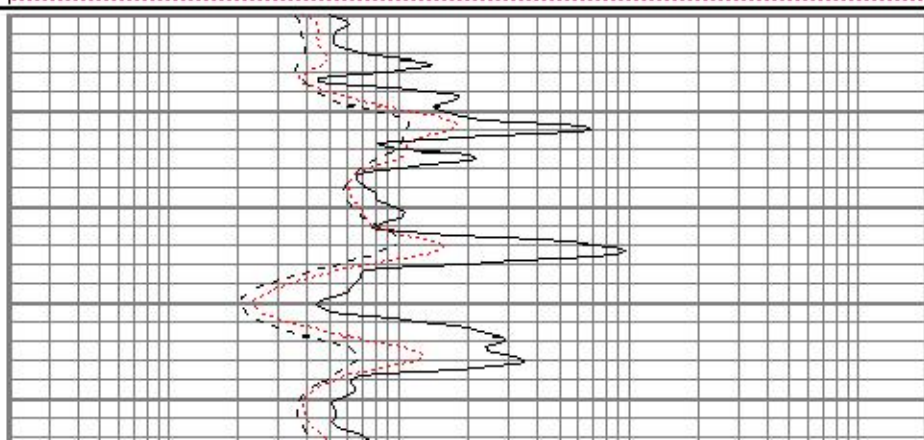
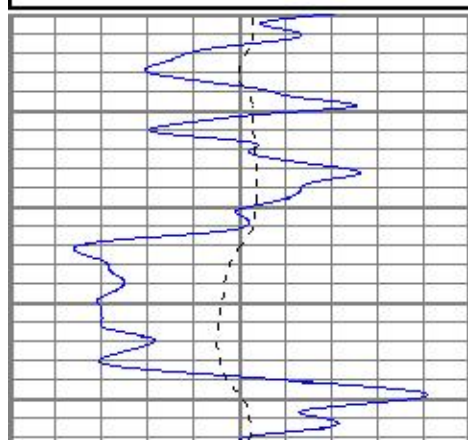
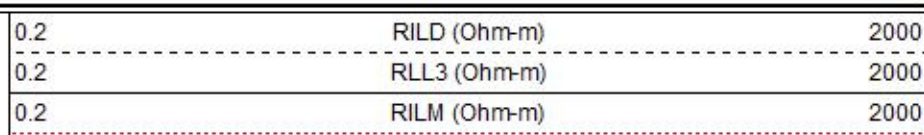


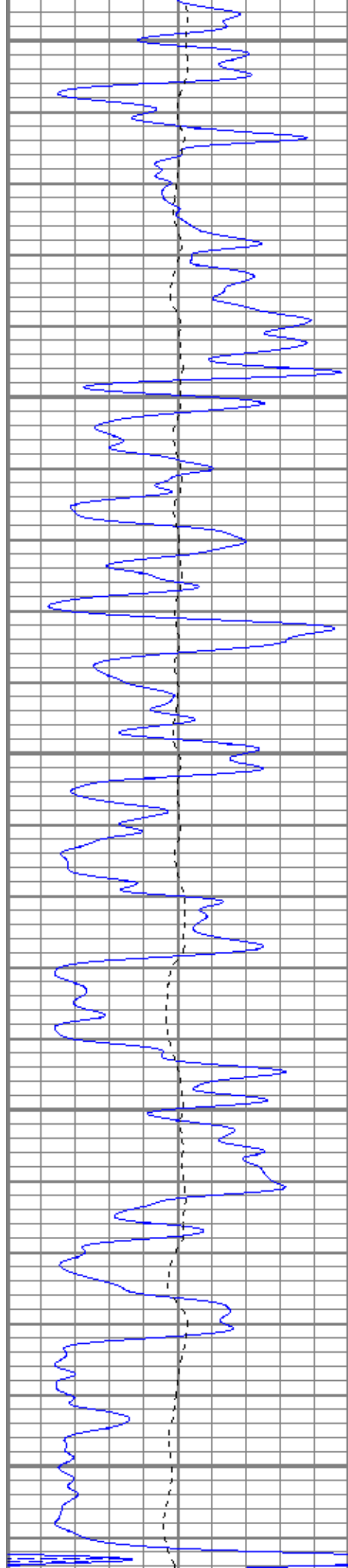
MAIN PASS

Database File pphillery#1oh.db
 Dataset Pathname pass3.1
 Presentation Format kdil
 Dataset Creation Wed Dec 12 12:54:47 2018
 Charted by Depth in Feet scaled 1:240



2300





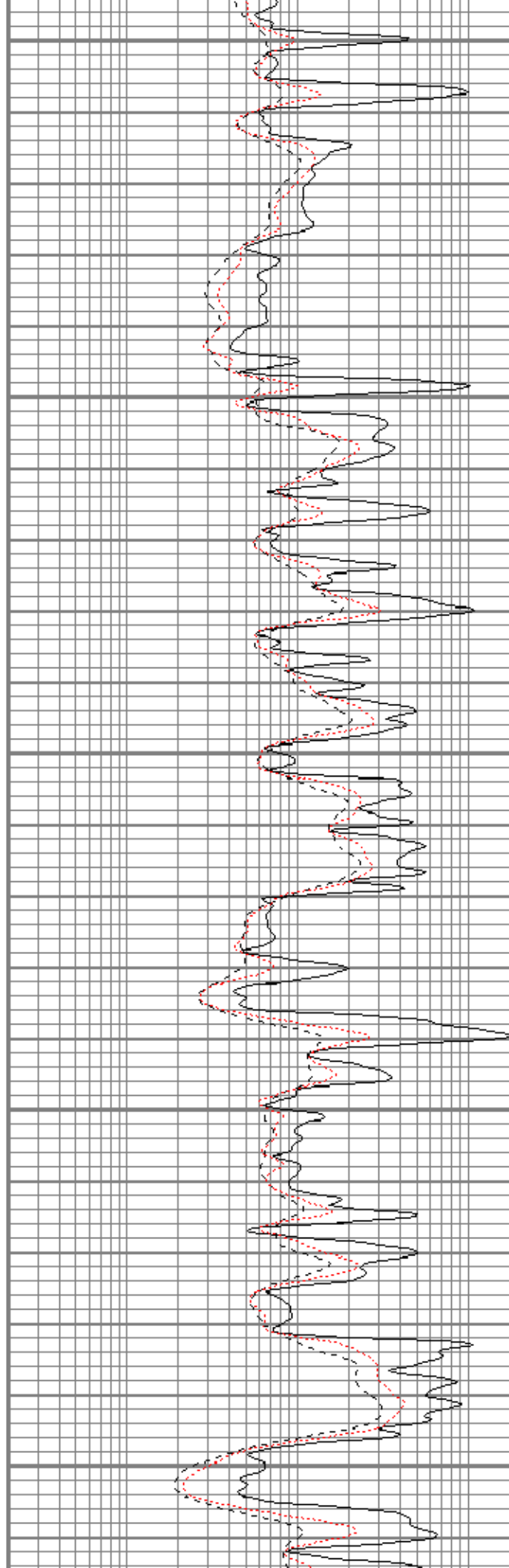
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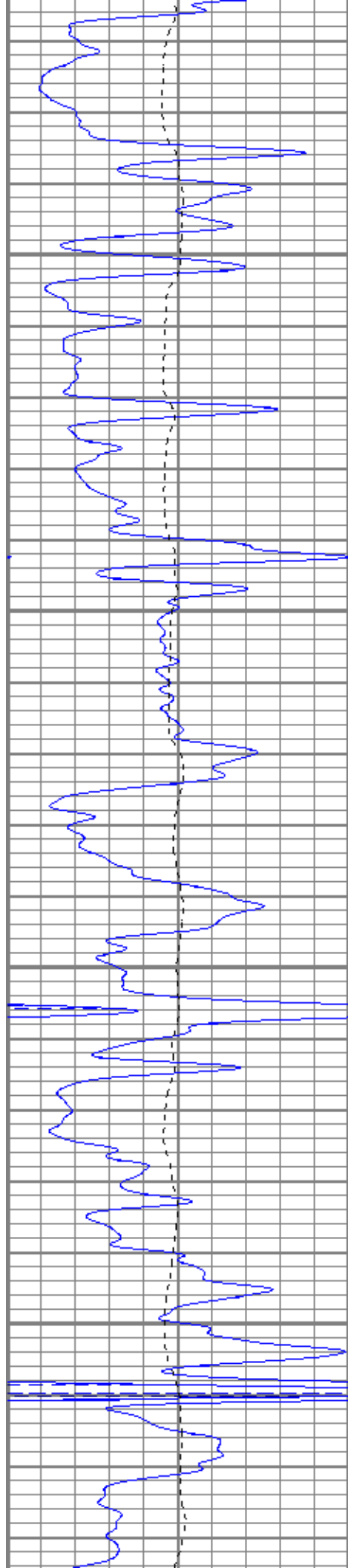
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3700

3750



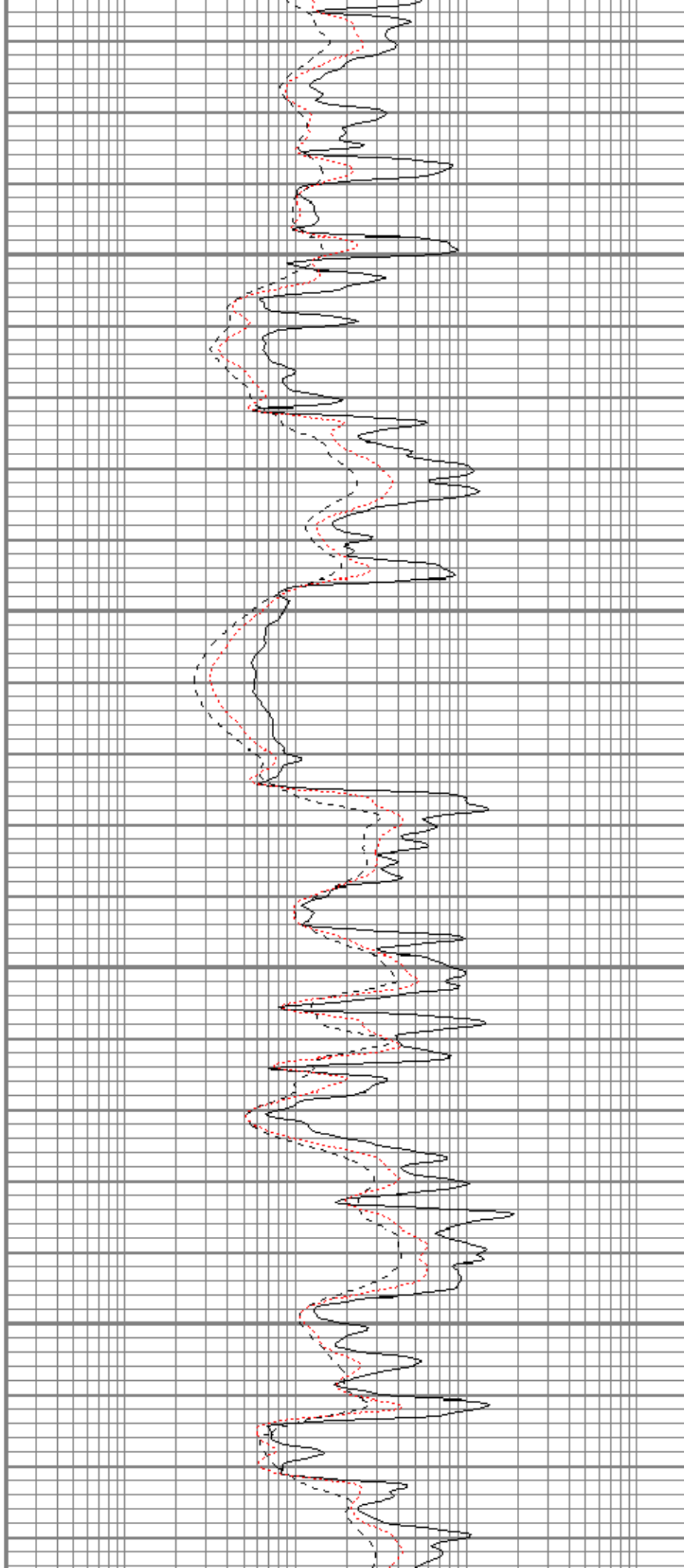


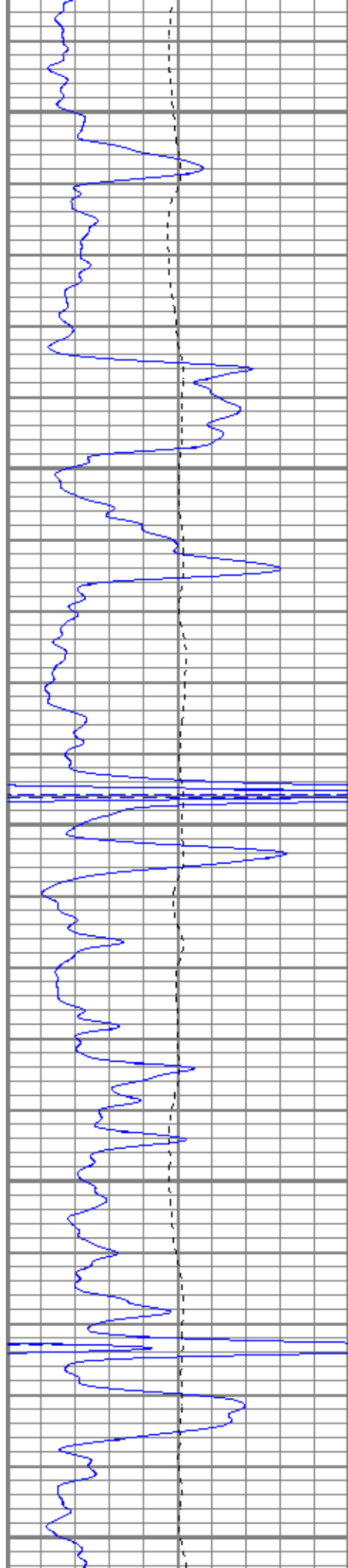
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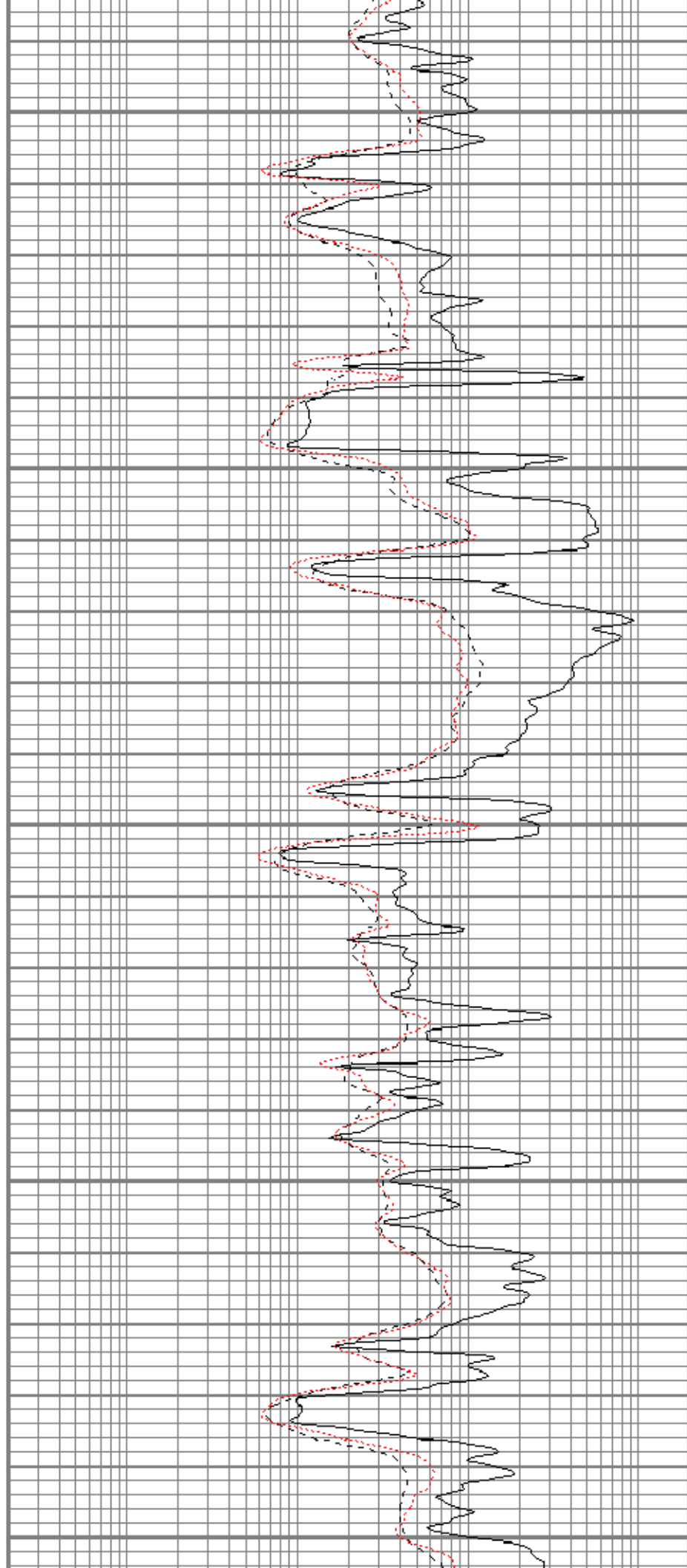
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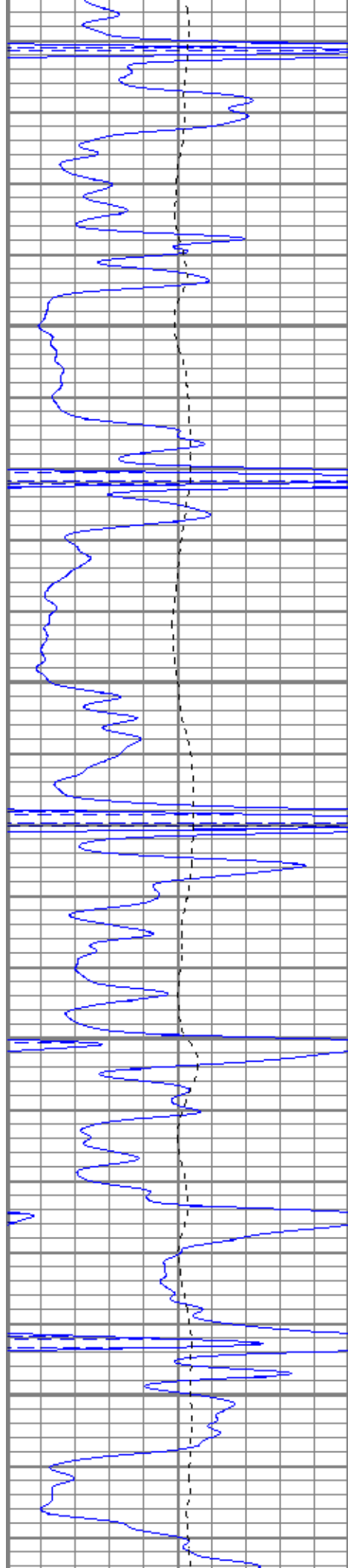
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4100

4150

4200



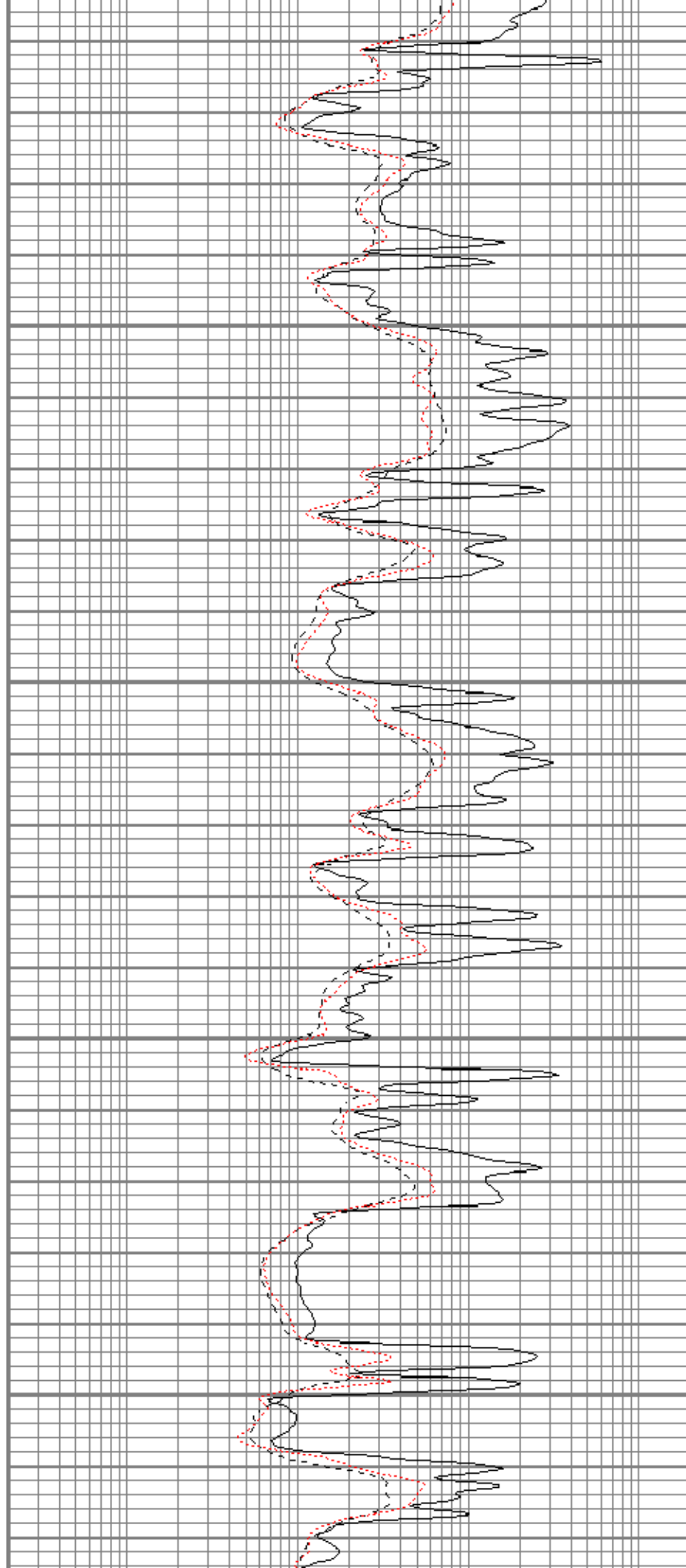


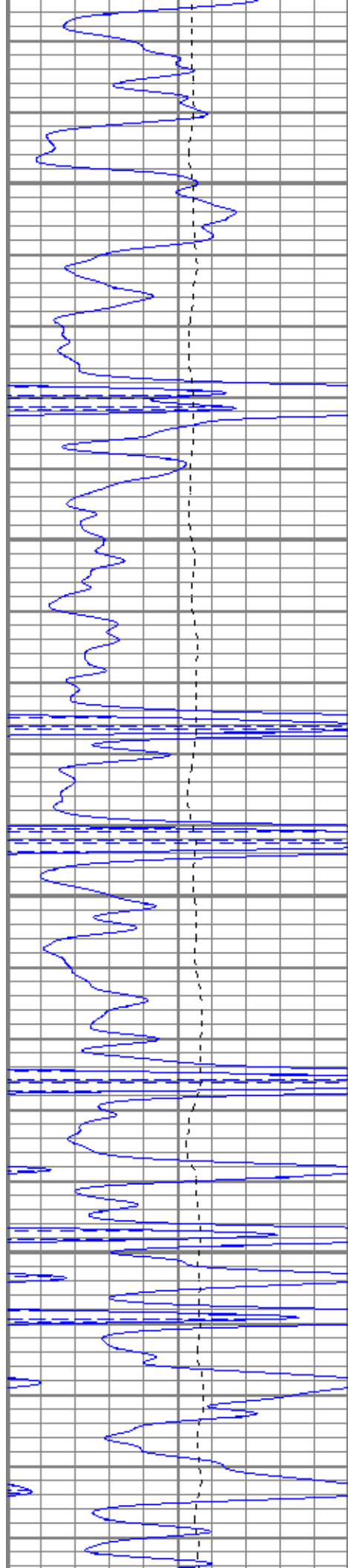
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4300

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4400



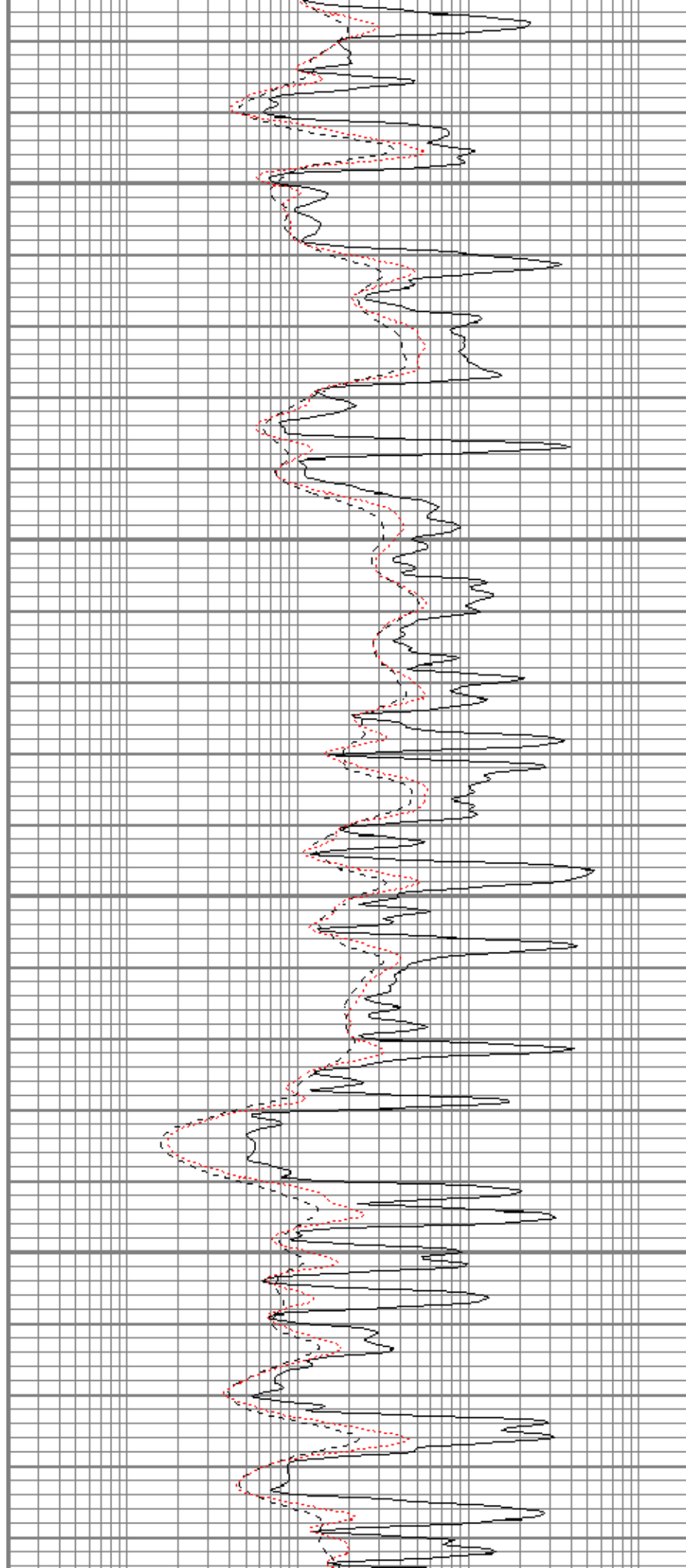


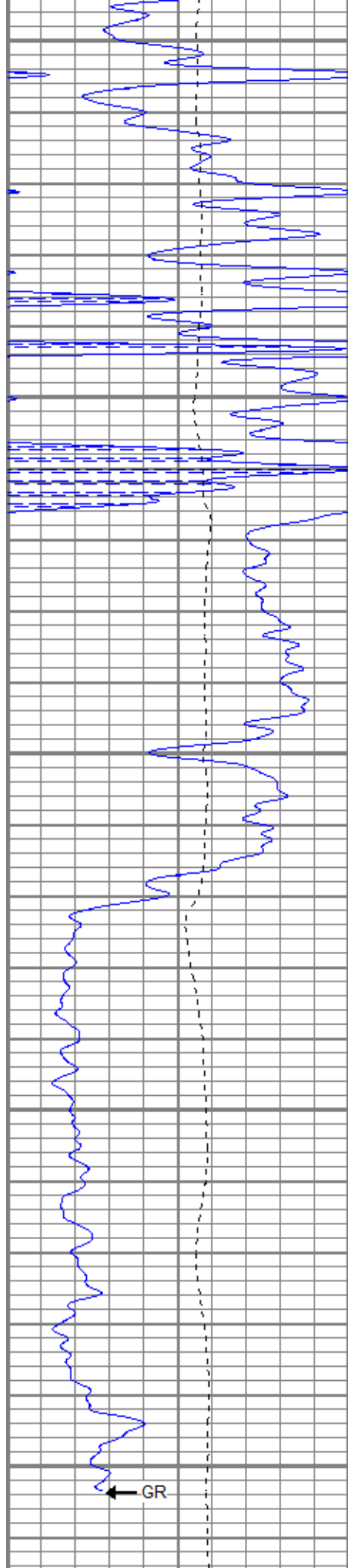
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4650

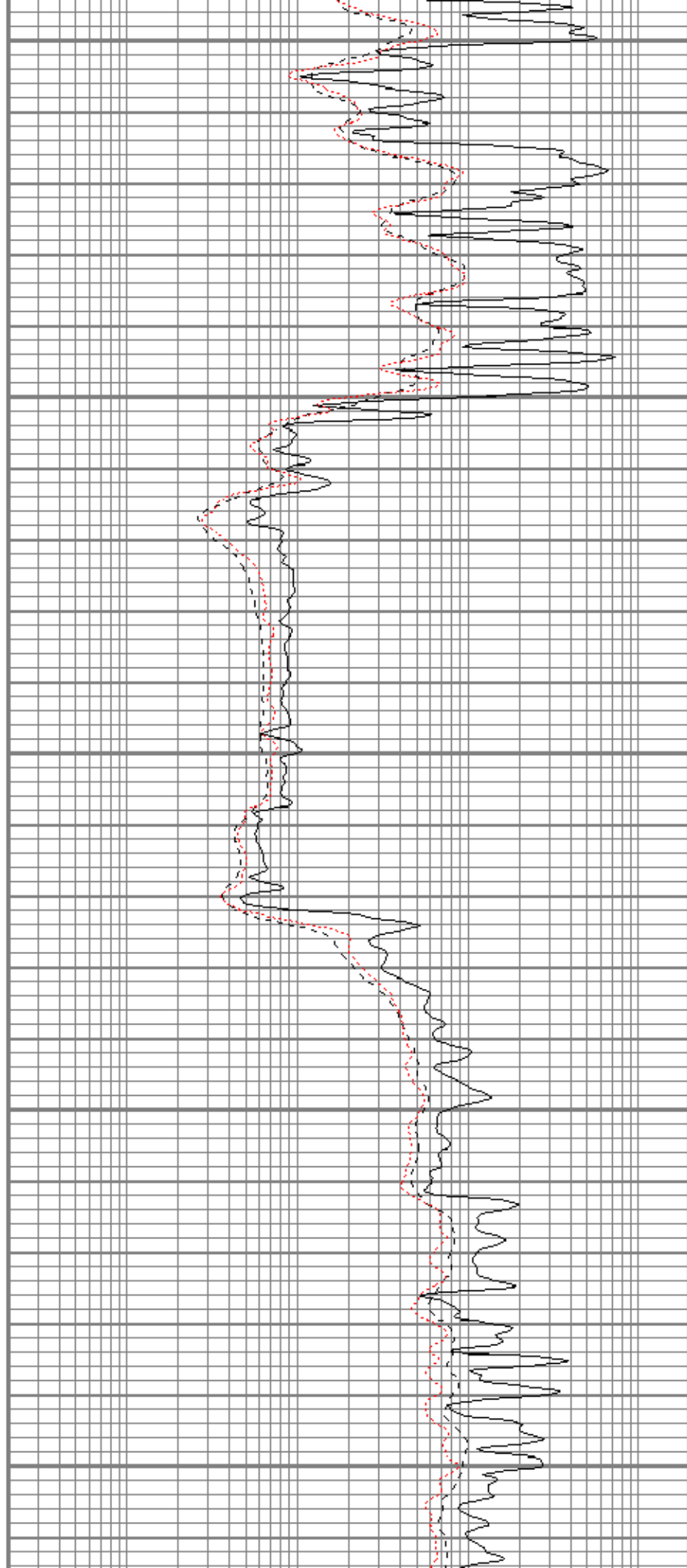
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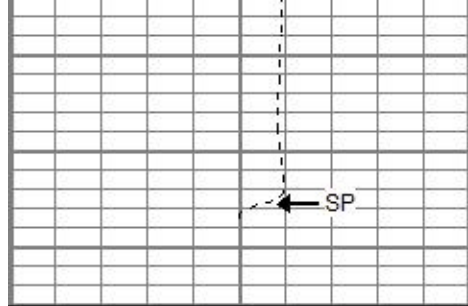
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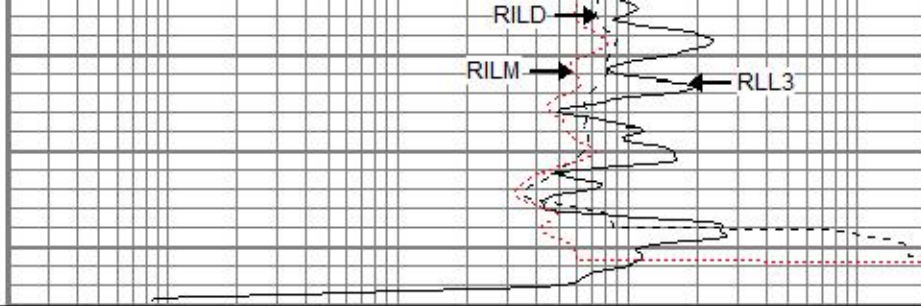
4850

GR





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

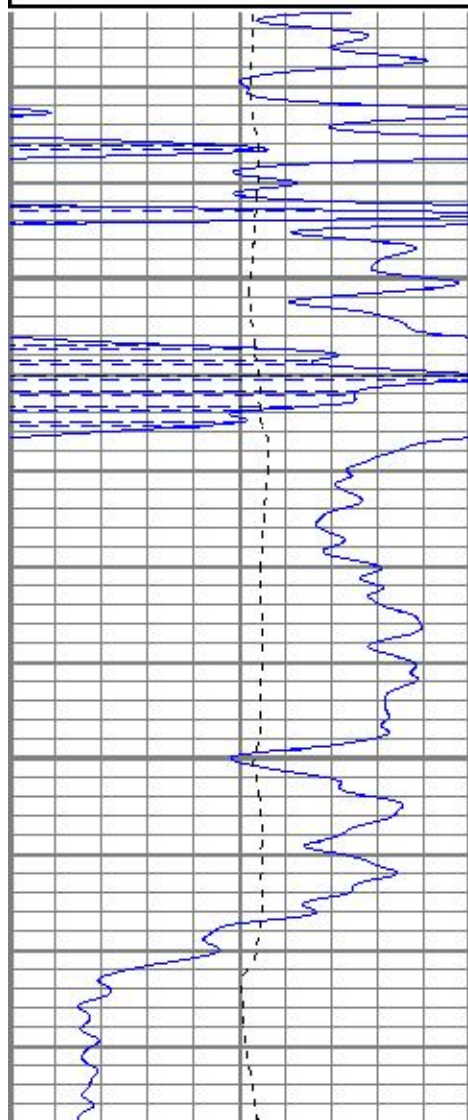


REPEAT SECTION

Database File pphillery#1oh.db
 Dataset Pathname pass2.1
 Presentation Format kdil
 Dataset Creation Wed Dec 12 11:48:03 2018
 Charted by Depth in Feet scaled 1:240

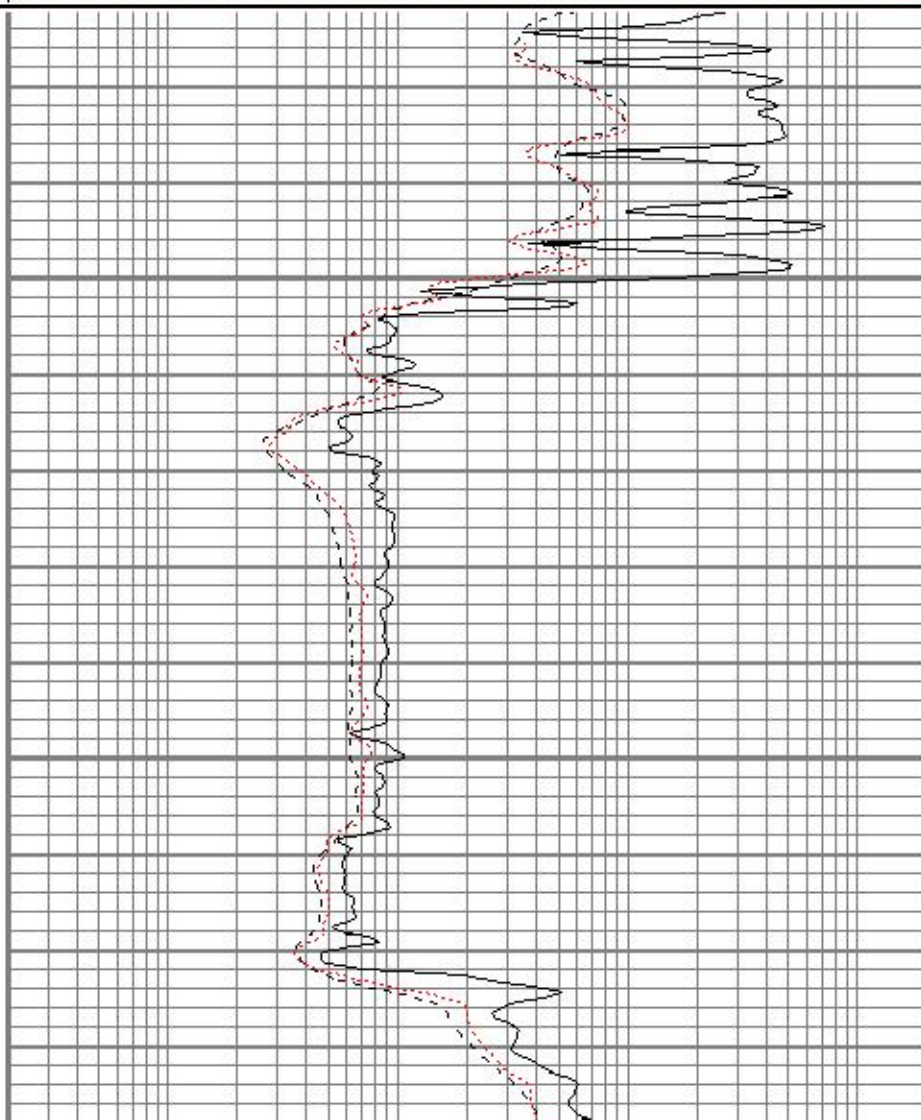
0	GR (GAPI)	150
-100	SP (mV)	100

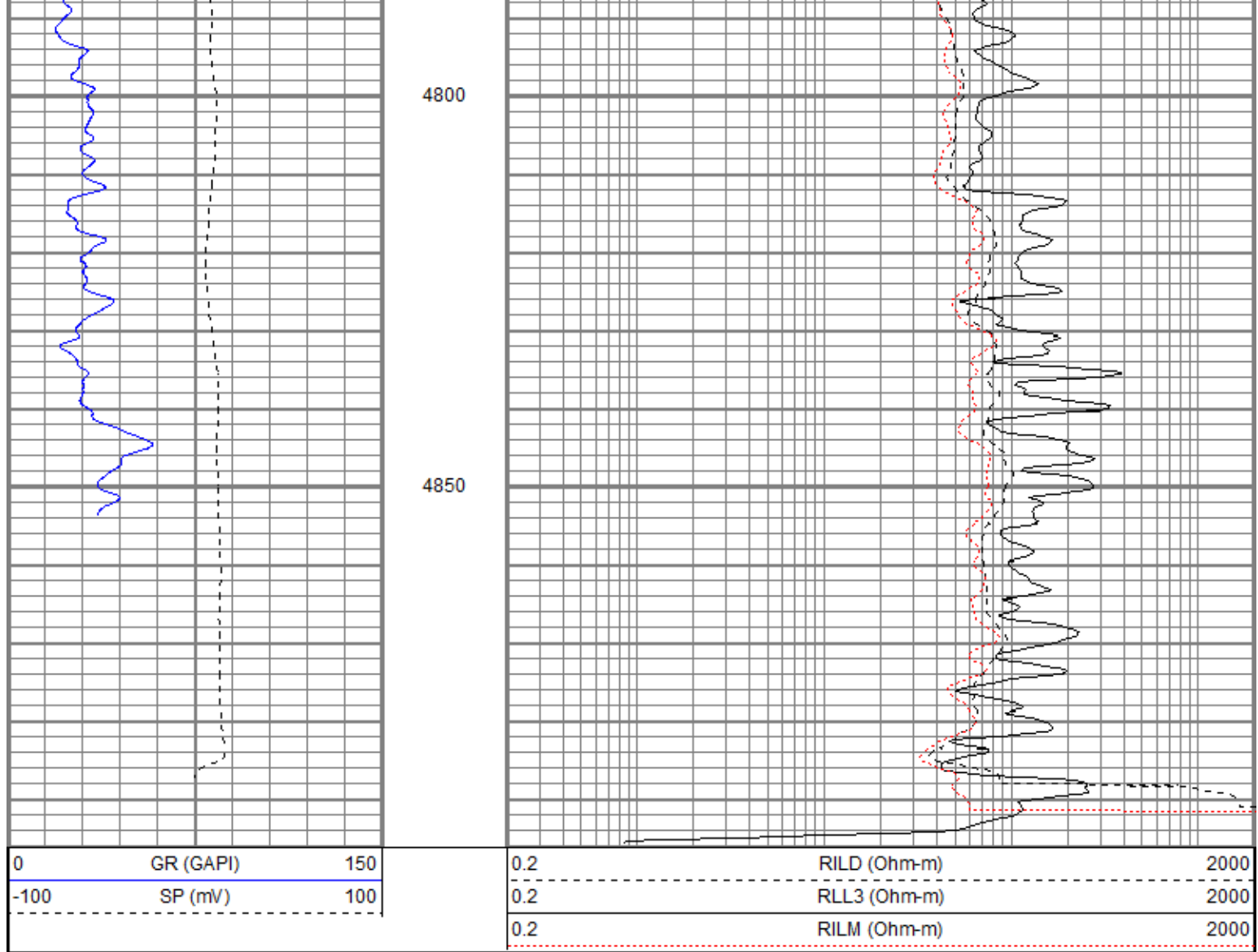
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



4700

4750





Calibration Report										
Database File	pphillery#1oh.db									
Dataset Pathname	pass3.1									
Dataset Creation	Wed Dec 12 12:54:47 2018									
Dual Induction Calibration Report										
Serial-Model:			5375-G							
Surface Cal Performed:			Sat Oct 10 08:33:18 2015							
Downhole Cal Performed:			Wed Dec 05 05:00:18 2018							
After Survey Verification Performed:			Sat Oct 10 08:33:27 2015							
Surface Calibration										
		Readings					References		Results	
Loop:	Air	Loop		Air	Loop		m	b		
Deep	0.007	0.642	V	0.000	350.000	mmho/m	551.294	-3.816		
Medium	0.010	0.728	V	0.000	400.000	mmho/m	556.531	-5.391		
Internal:	Zero	Cal		Zero	Cal		m	b		
Deep	0.007	0.642	V	0.000	350.000	mmho/m	550.717	-3.768		
Medium	0.010	0.729	V	0.000	550.000	mmho/m	764.510	-7.354		
Downhole Calibration										
		Readings					References		Results	

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.145	350.239	mmho/m	-0.044	350.323	mmho/m	1.001	-0.189
Medium	0.435	400.472	mmho/m	-0.037	400.340	mmho/m	1.001	-0.473
Shallow	2.440	0.018	V	500.000	2.000	Ohm-m	205.554	0.825
After Survey Verification								
Readings			Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.145	350.239	mmho/m	1.001	-0.189
Medium	0.000	0.000	mmho/m	0.435	400.472	mmho/m	1.001	-0.473
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:			lithogearhart					
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:		Wed Dec 05 04:54:01 2018			
		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:			Wed Dec 05 04:53:48 2018					
			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:			Wed Dec 05 04:58:30 2018					
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) Admyr Telemetry With Mudcell	4.58	3.50	120.00			
ACCX	38.91								
SSTAT	38.49		NEU-lithogearhart (2017)	5.65	3.50	85.00			
PSTAT	37.66								
ASTAT	37.66								
GRD	36.82		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00			
TEMP	36.82								
NEU	33.46								
LStat	24.30								
LS8	23.64								
LS7	23.64								
LS6	23.64								
LS5	23.64								
LS4	23.64								
LS3	23.64								
LS2	23.64		DIL-G (5375) Gearhart	21.47	4.00	345.00			
LS1	23.64								
LSV	23.64								
LSD	23.62								
SSV	23.43								
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: pphillery#1oh.db: field/well/run1/pass3.1 Total length: 41.49 ft Total weight: 791.00 lb O.D.: 4.00 in							
TR_Mon	0.00								