



DUAL INDUCTION LOG

Company	HG OIL HOLDINGS, LLC.		
Well	HPB #1-6		
Field	LONE BUTTE SOUTHWEST		
County	LOGAN	State	KS
Location:	API # : 15 109 21657		Other Services CDNL ML
SEC 6 TWP 15S RGE 34W		Elevation	
Permanent Datum	Ground Level	Elevation	2998
Log Measured From	KB 5' AGL		
Drilling Measured From	KB	K.B. 3003 D.F. 3001 G.L. 2998	
Date	10/31/22		
Run Number	One		
Depth Driller	4630		
Depth Logger	4630		
Bottom Logged Interval	4628		
Top Log Interval	00		
Casing Driller	8 5/8" @ 263		
Casing Logger	263		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.5/63		
pH / Fluid Loss	8.5/10.6		
Source of Sample	Pit		
Rm @ Meas. Temp	1.3@70degf		
Rmf @ Meas. Temp	.98@70degf		
Rmc @ Meas. Temp	.77@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.39@118degf		
Time Circulation Stopped	4:30 P.M.		
Time Logger on Bottom	6:30 PM		
Maximum Recorded Temperature	118degf		
Equipment Number	T605		
Location	Hays, KS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	MARC DOWNING		

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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

SOUTH OUT OF RUSSELL SPRINGS TO NAVAJO ROAD EAST 1, SOUTH TO GOLD RD.
2 MILES EAST, SOUTH INTO.

Thank You for using Gemini Wireline LLC
785-625-1182

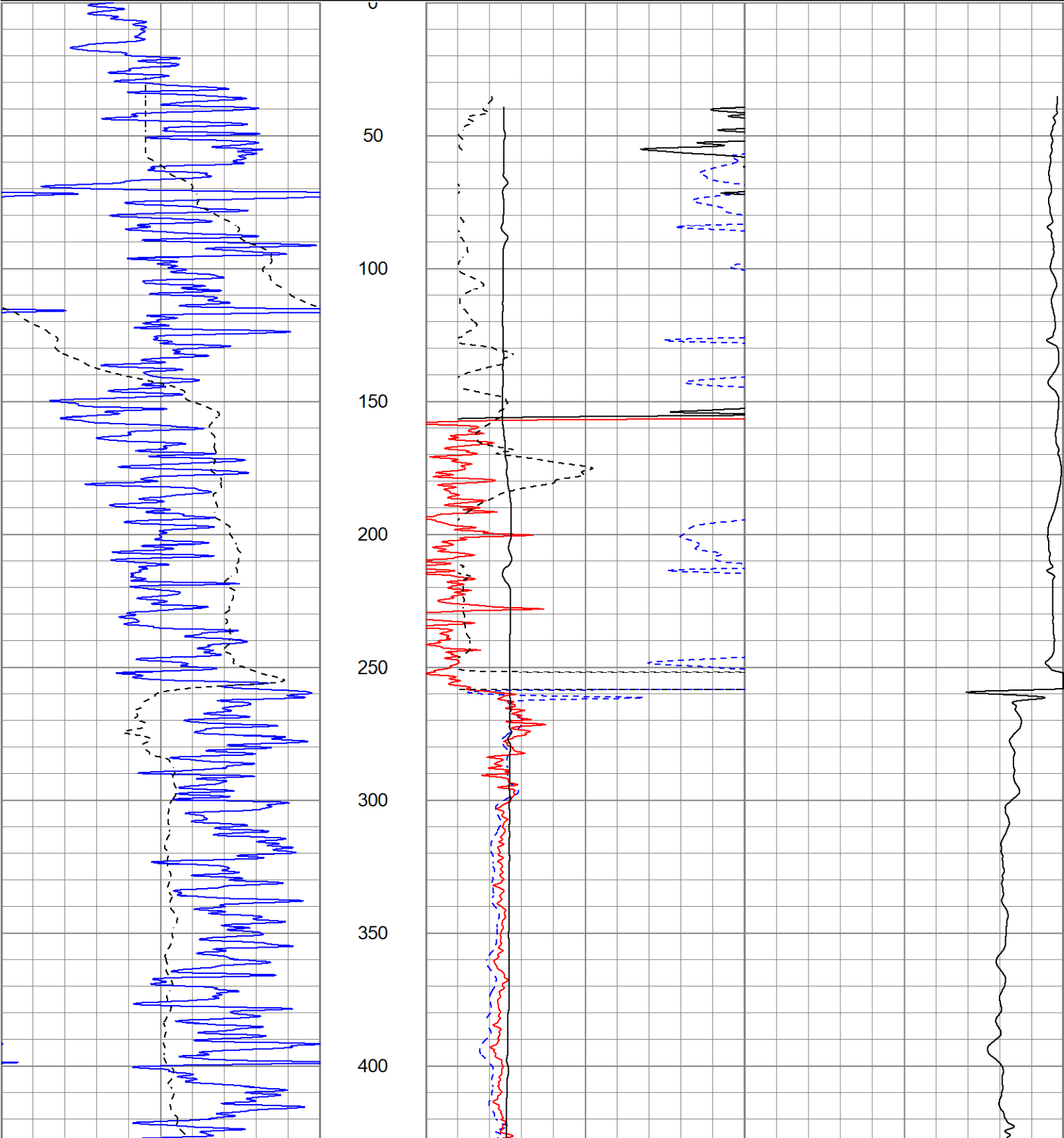


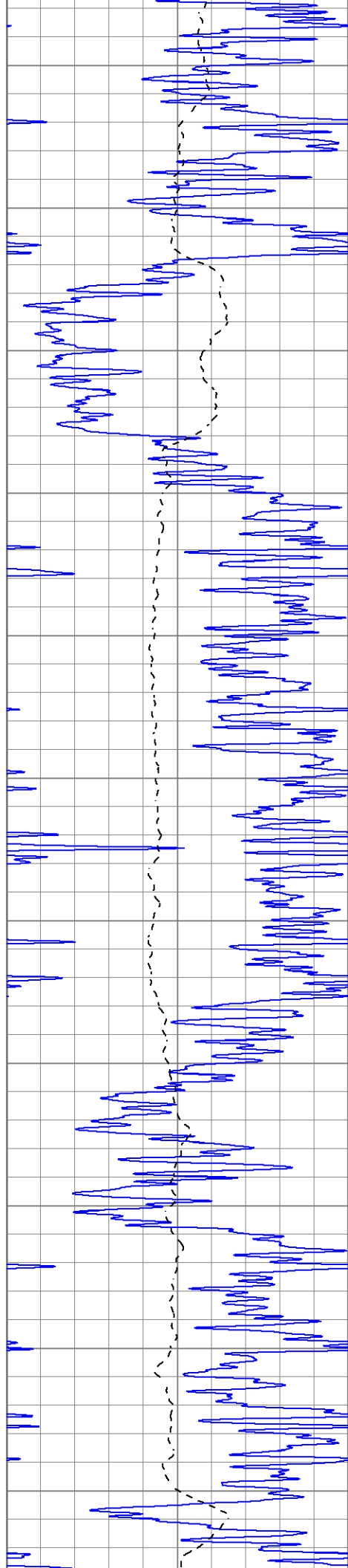
MAIN PASS

Database File	hghbp#1-6oh.db
Dataset Pathname	pass3.1
Presentation Format	kdillinn
Dataset Creation	Mon Oct 31 20:38:18 2022
Charted by	Depth in Feet scaled 1:600

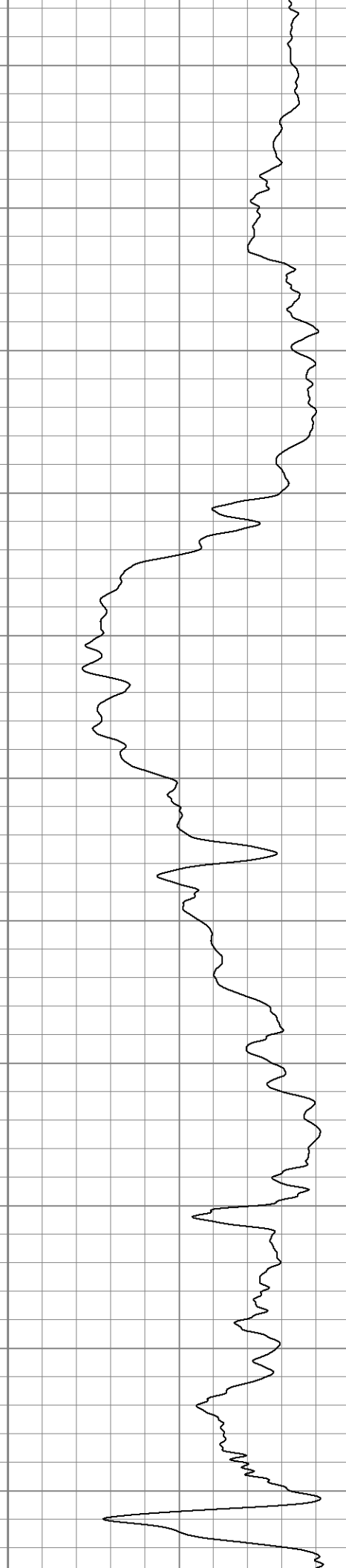
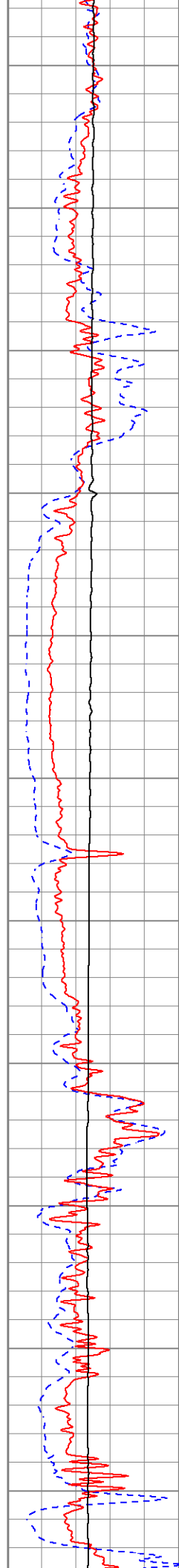
0	GR (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	10000	LTEN (lb)	0

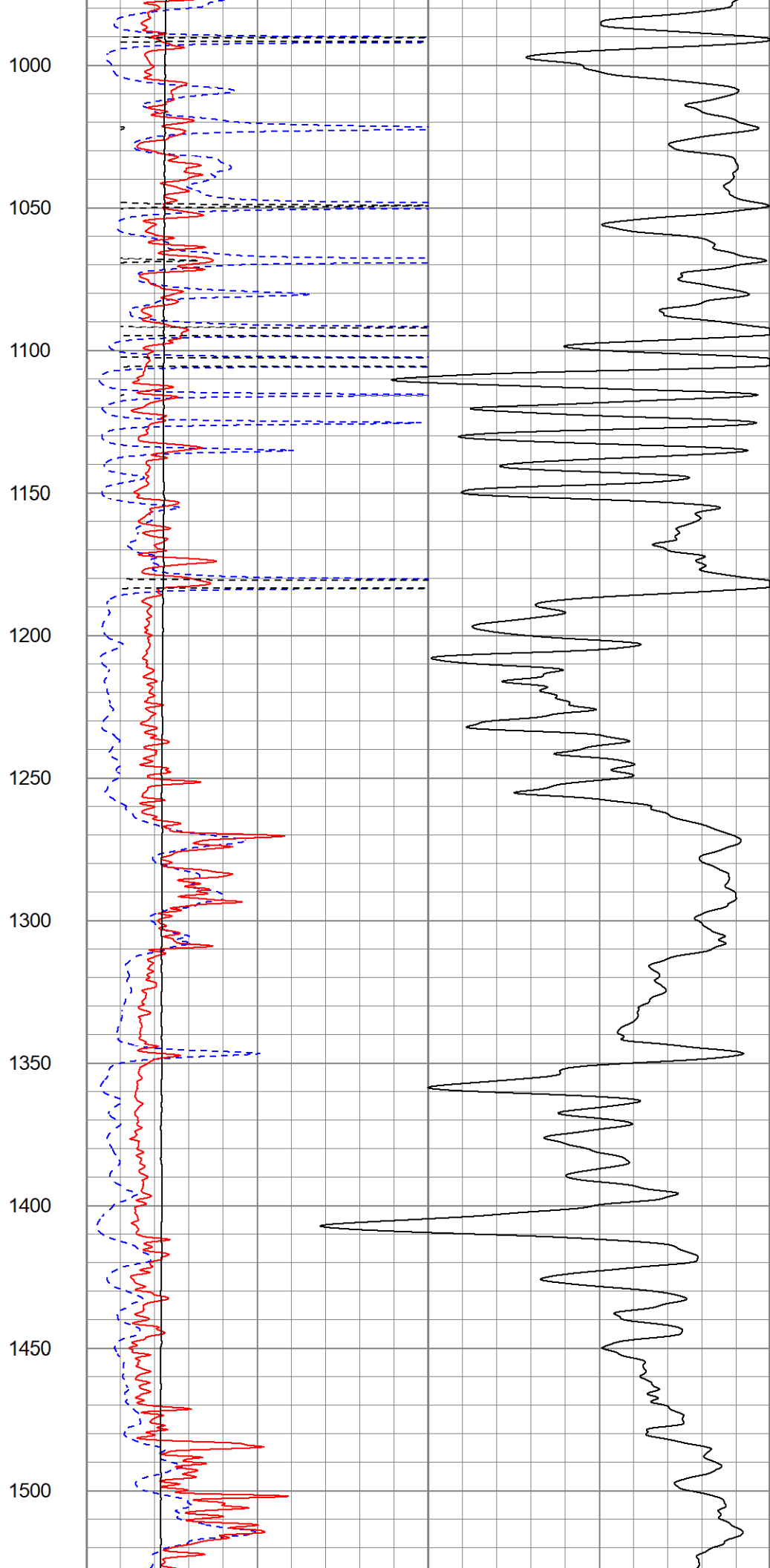
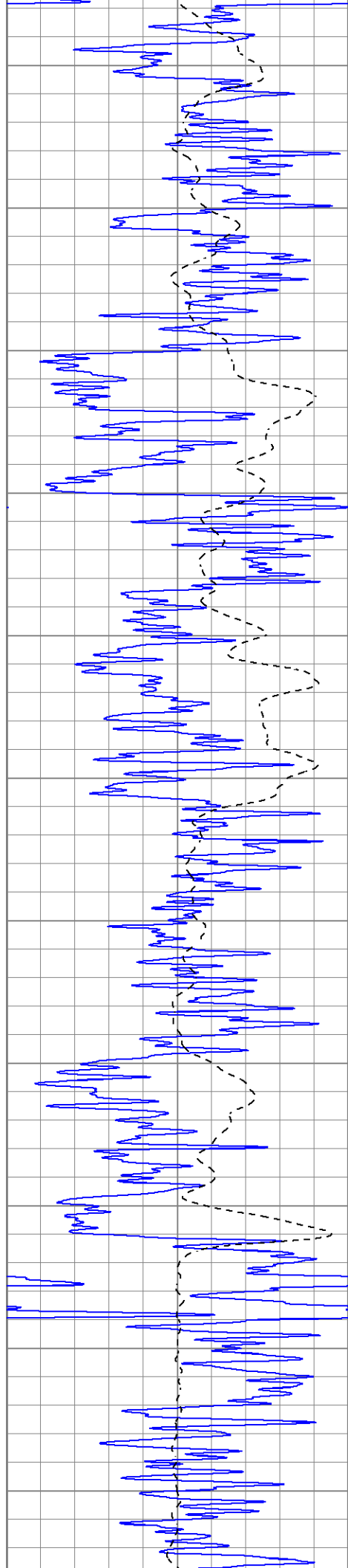
0	RILD (Ohm-m)	50			
0	RLL3 (Ohm-m)	50			
50	RILD x 10 (Ohm-m)	500			
50	RLL3 x 10 (Ohm-m)	500			

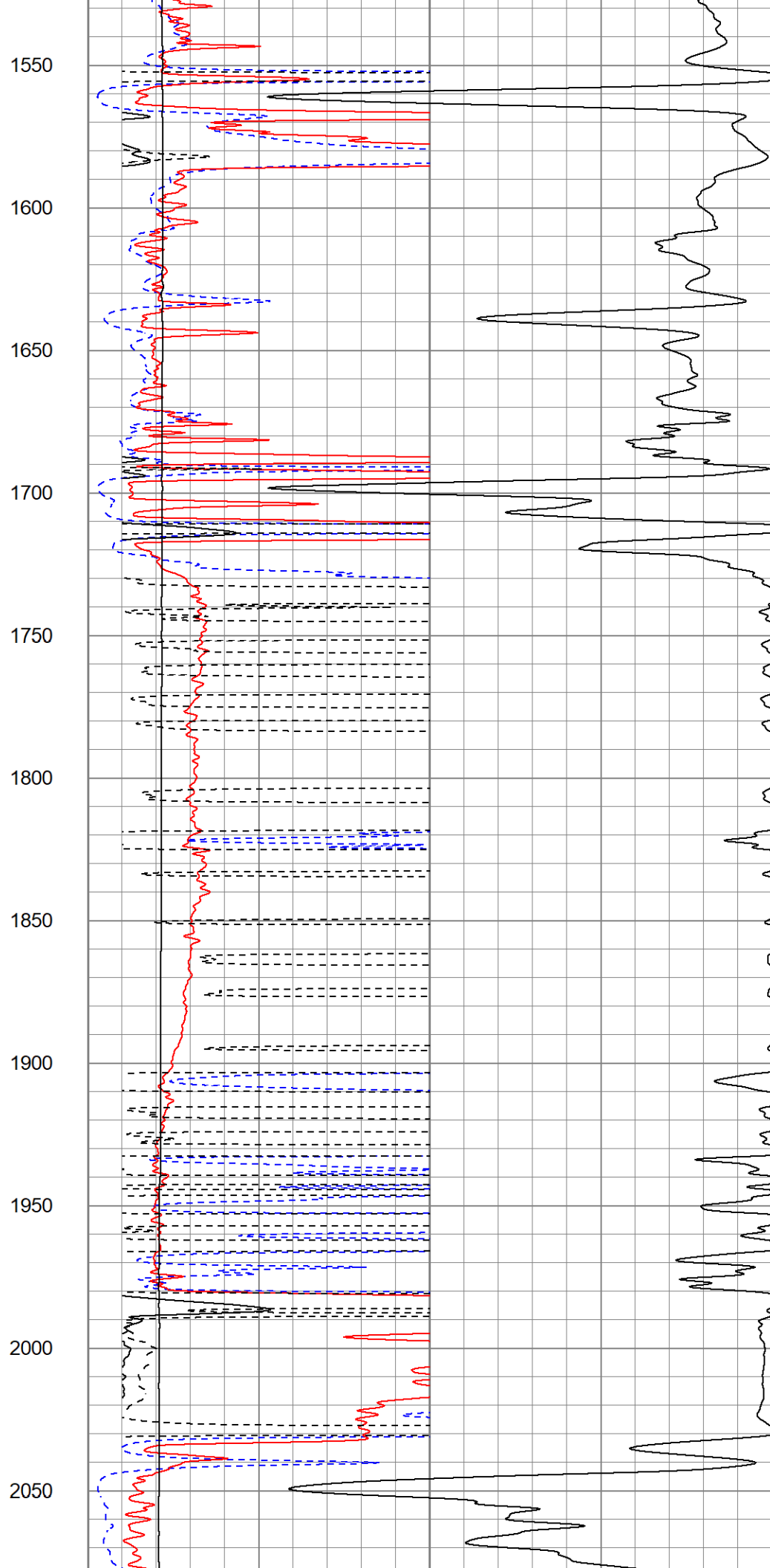
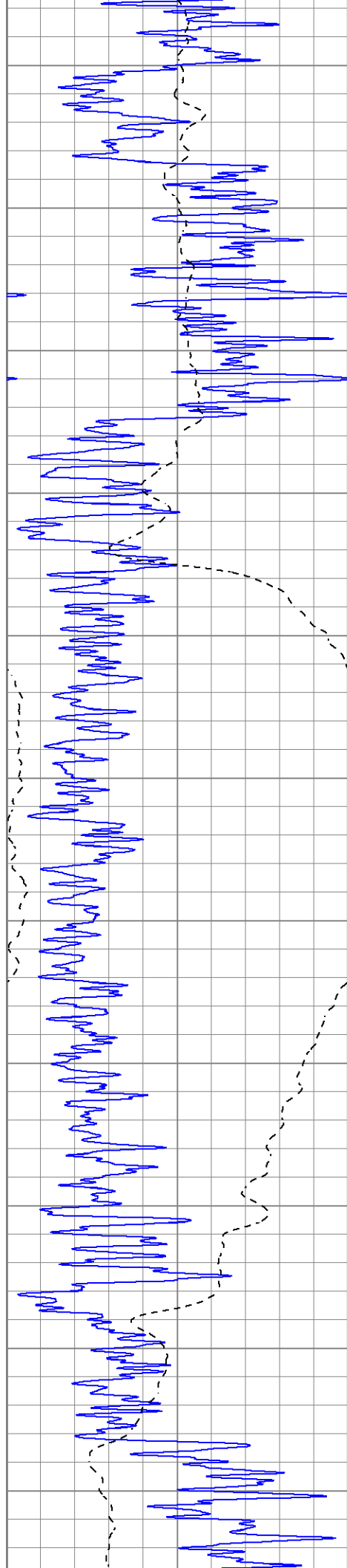


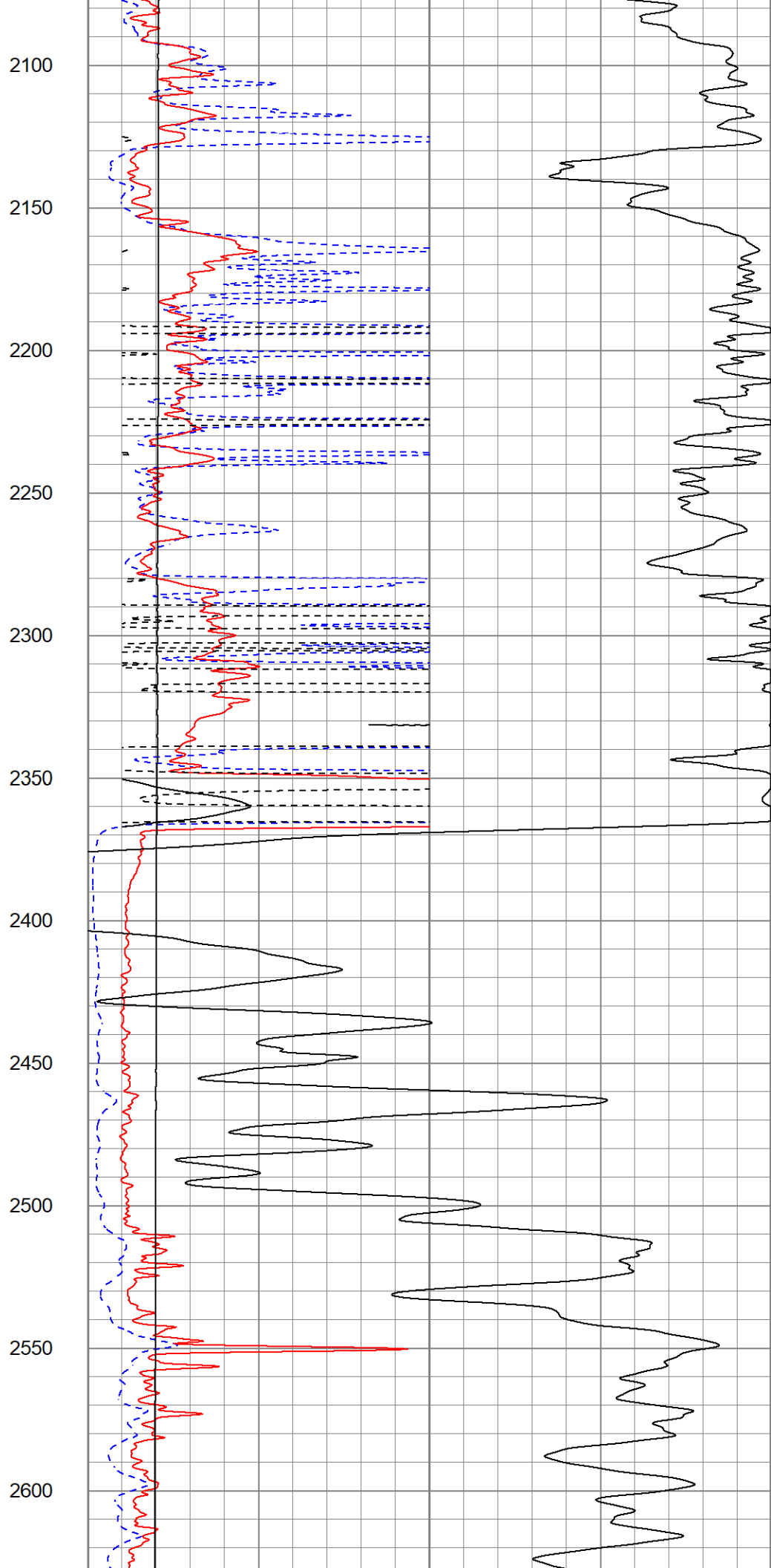
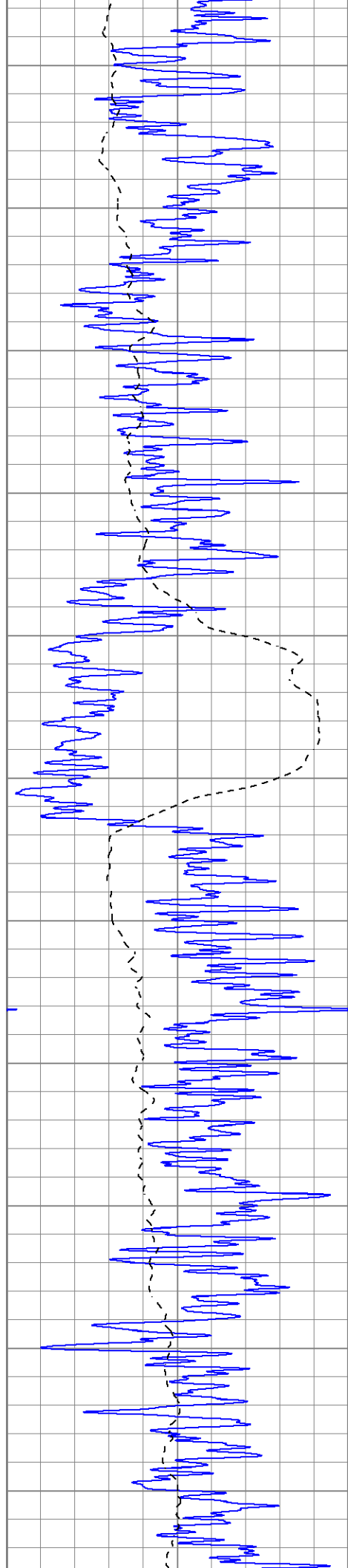


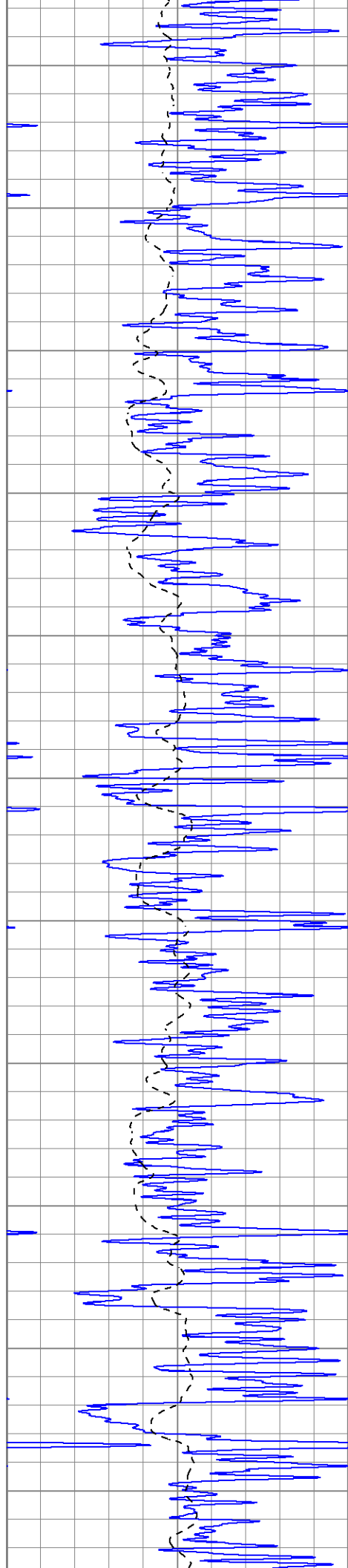
450
500
550
600
650
700
750
800
850
900
950











2650

2700

2750

2800

2850

2900

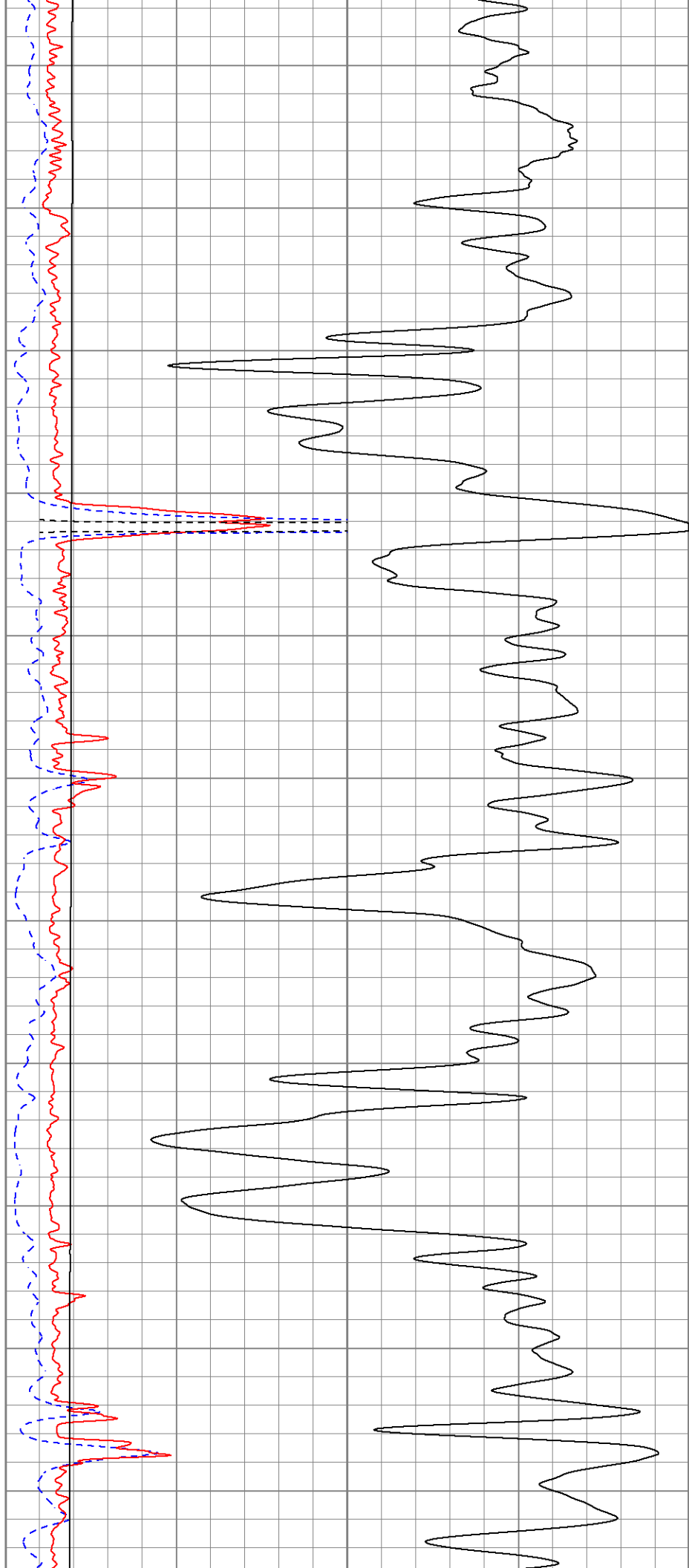
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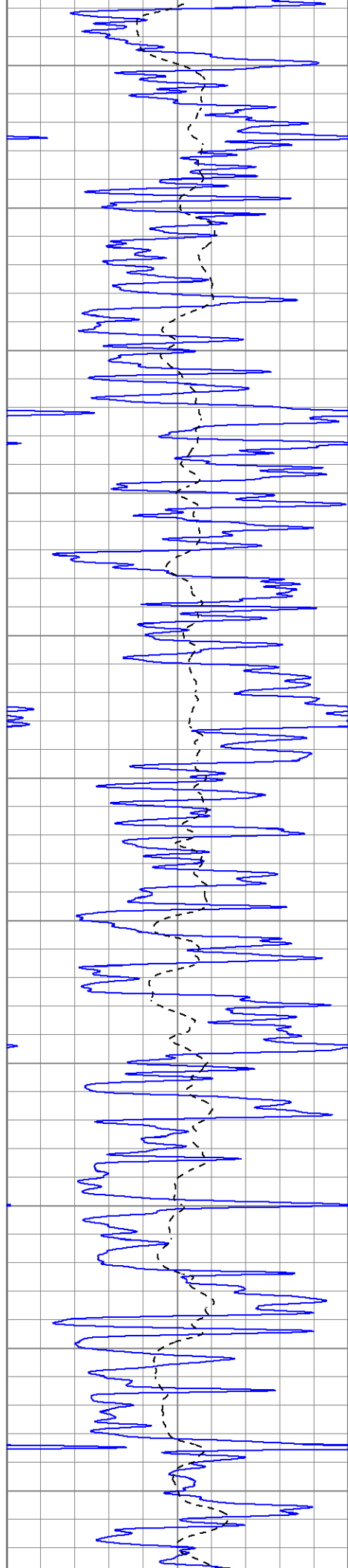
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3050

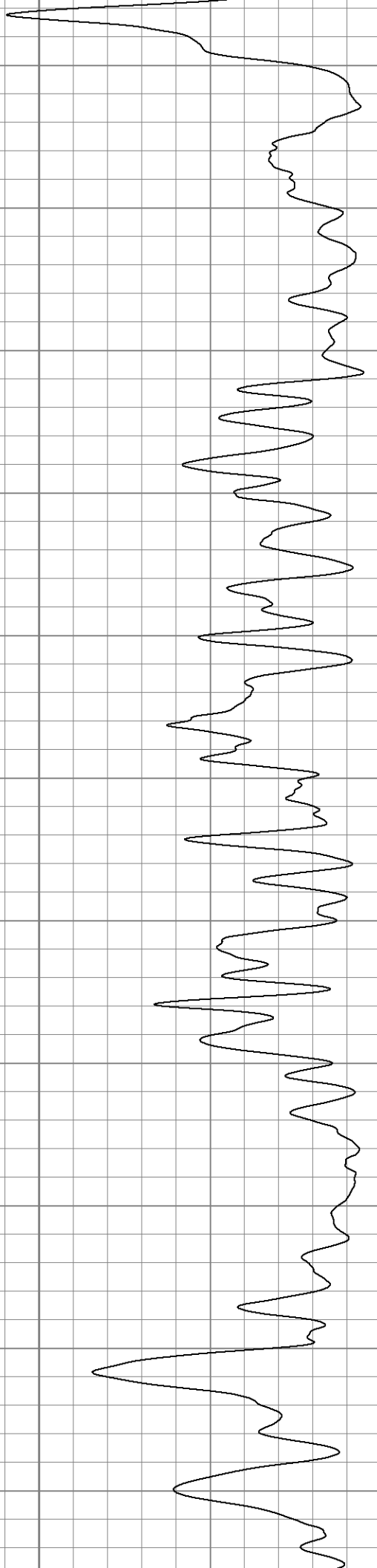
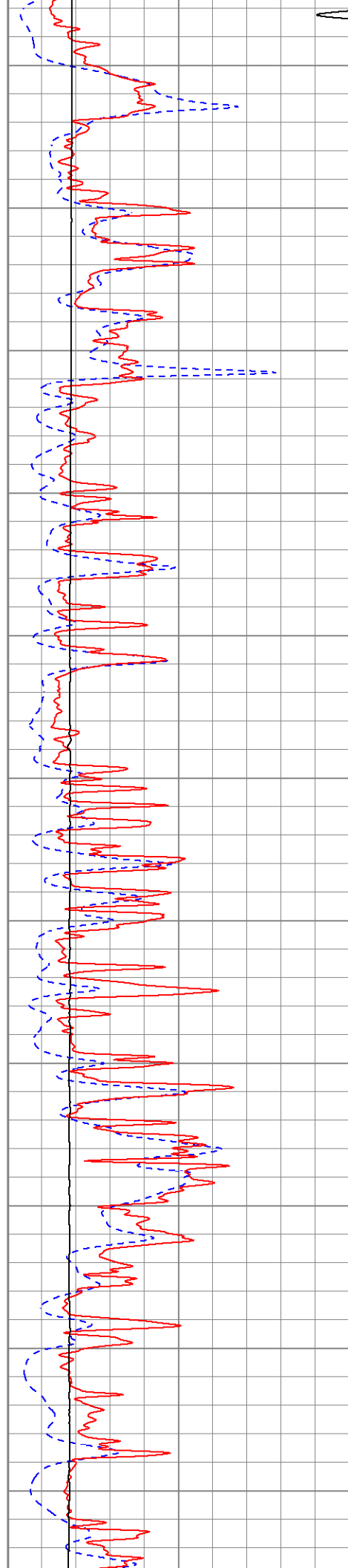
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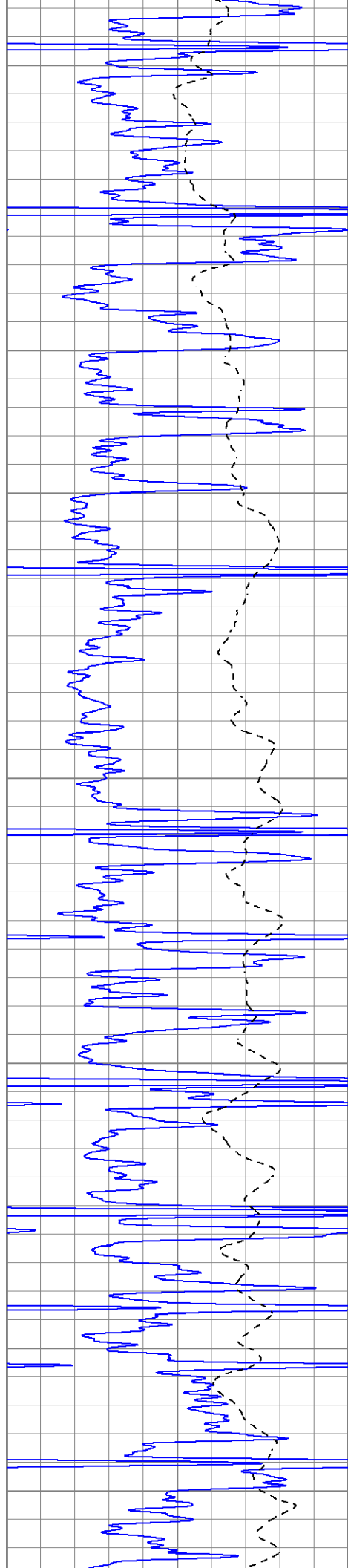
3150





3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700





3750

3800

3850

3900

3950

4000

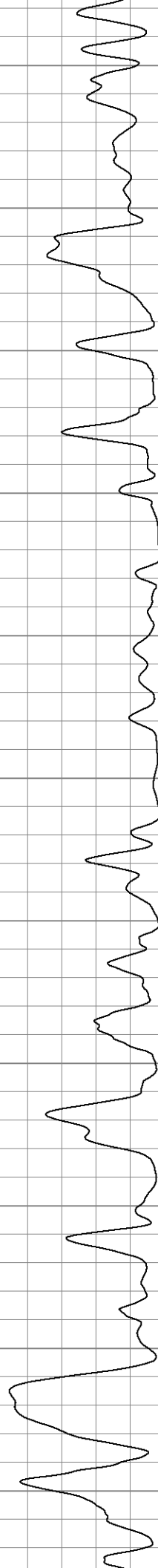
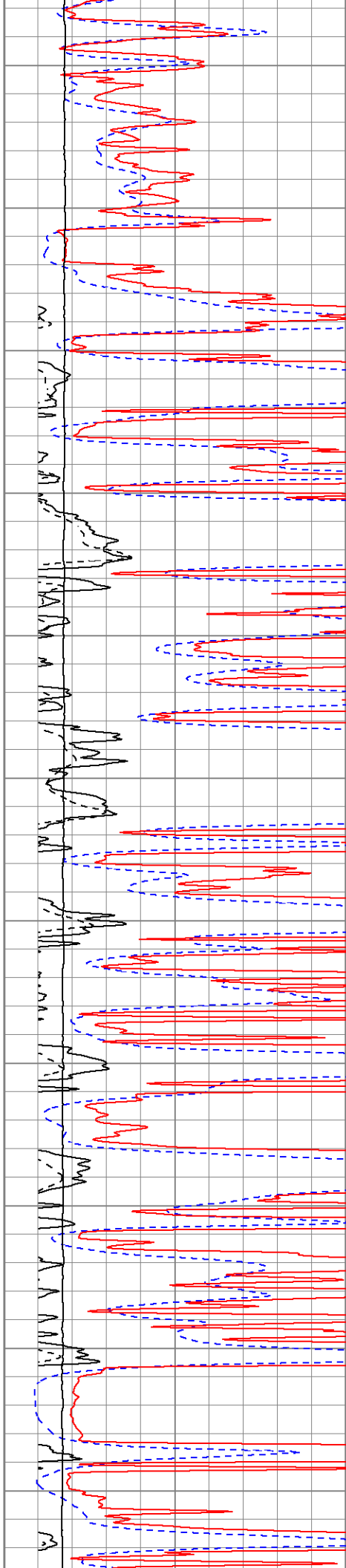
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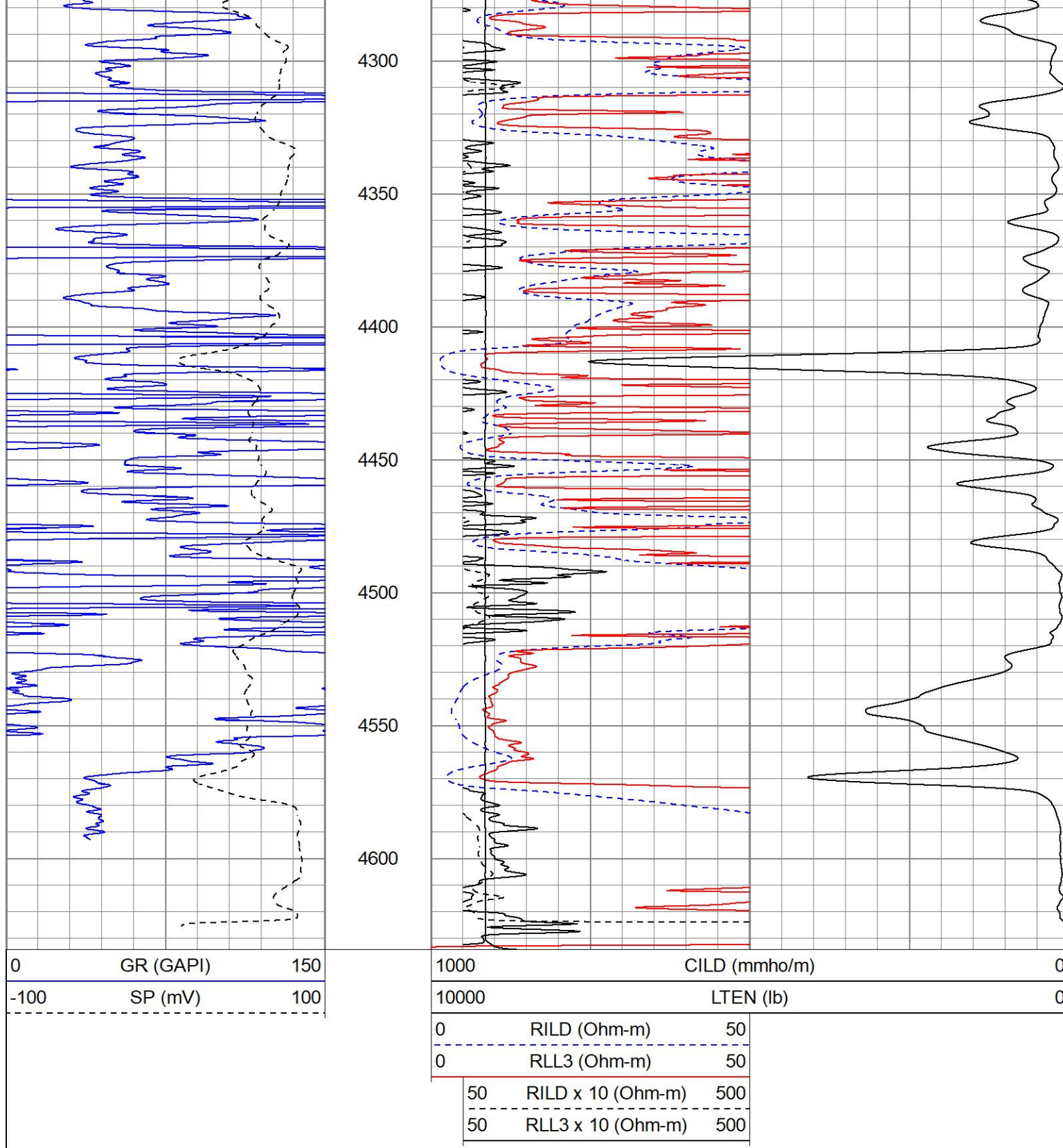
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4150

4200

4250



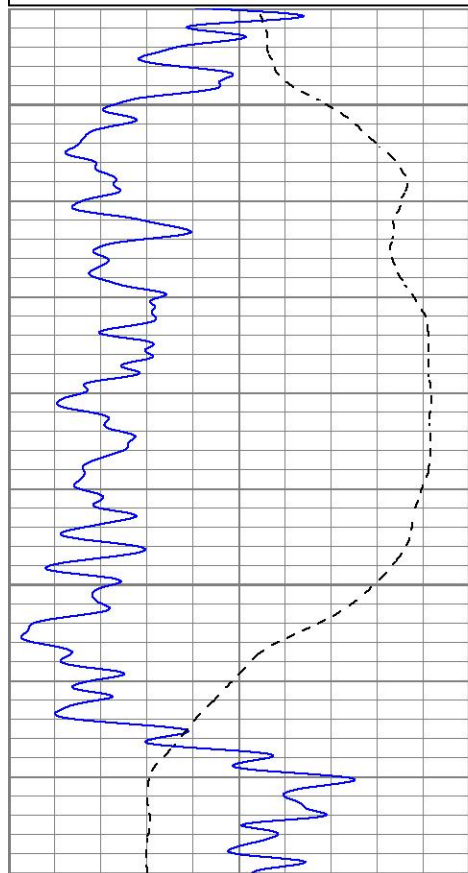




MAIN PASS

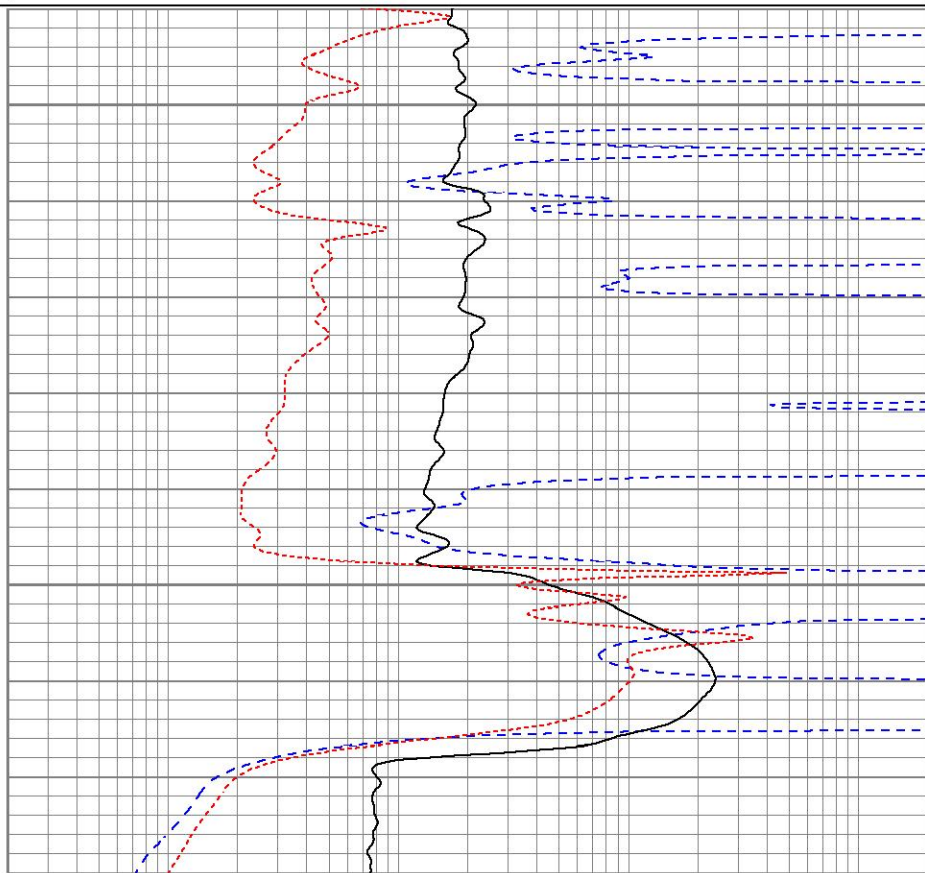
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Dataset Pathname	pass3.1
Presentation Format	kdil
Dataset Creation	Mon Oct 31 20:38:18 2022
Charted by	Depth in Feet scaled 1:240

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



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



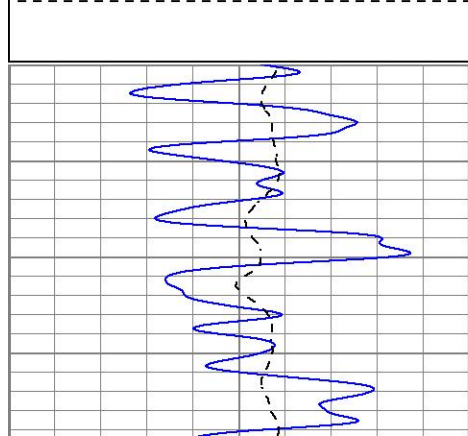
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



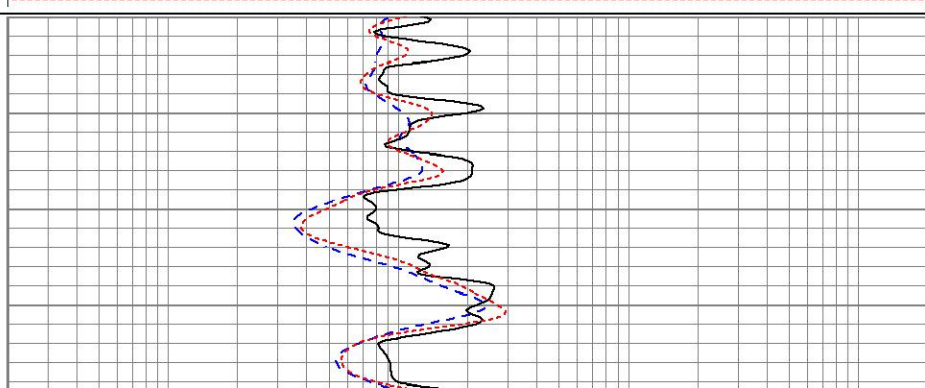
MAIN PASS

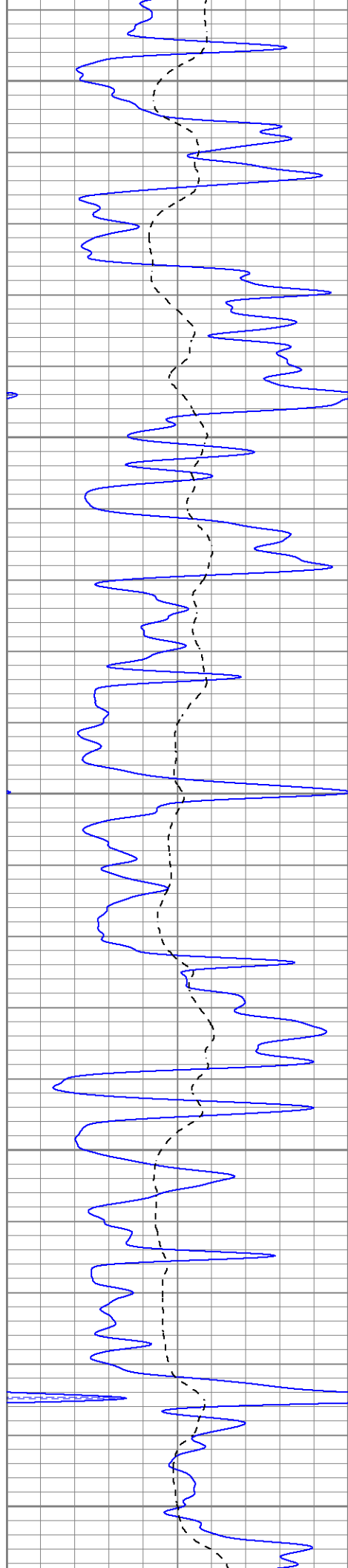
Database File hghbp#1-6oh.db
Dataset Pathname pass3.1
Presentation Format kdil
Dataset Creation Mon Oct 31 20:38:18 2022
Charted by Depth in Feet scaled 1:240

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





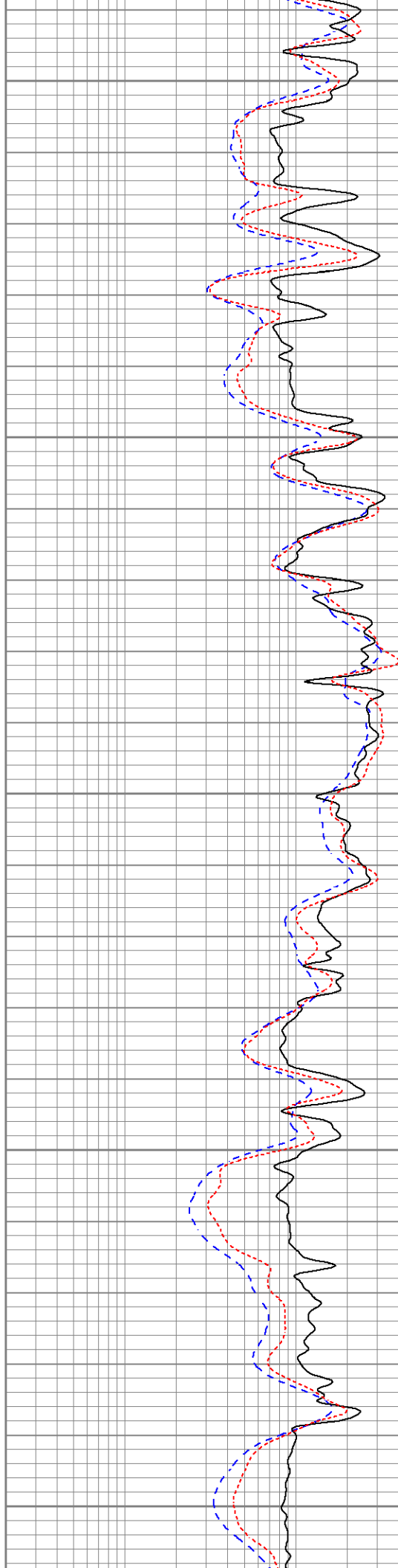
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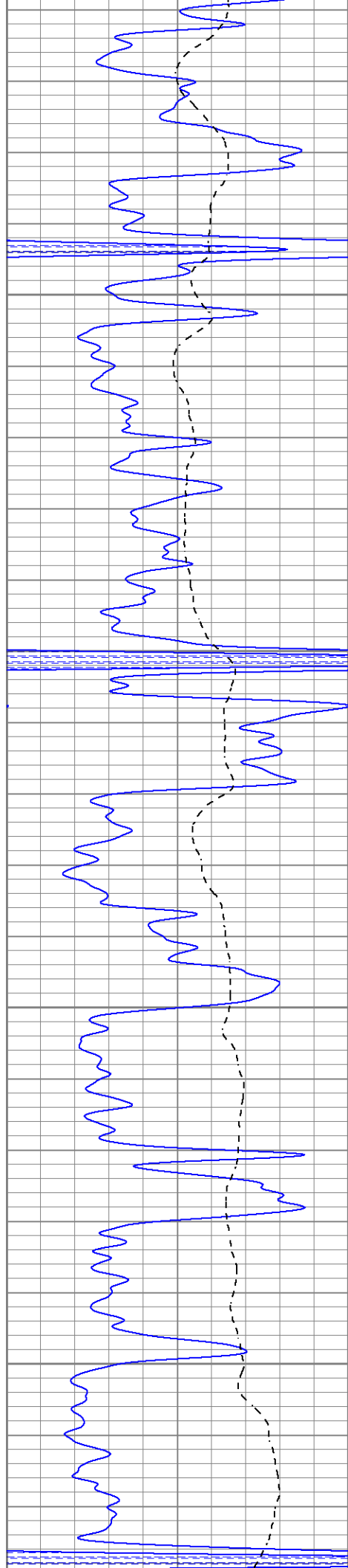
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3600

3650

3700



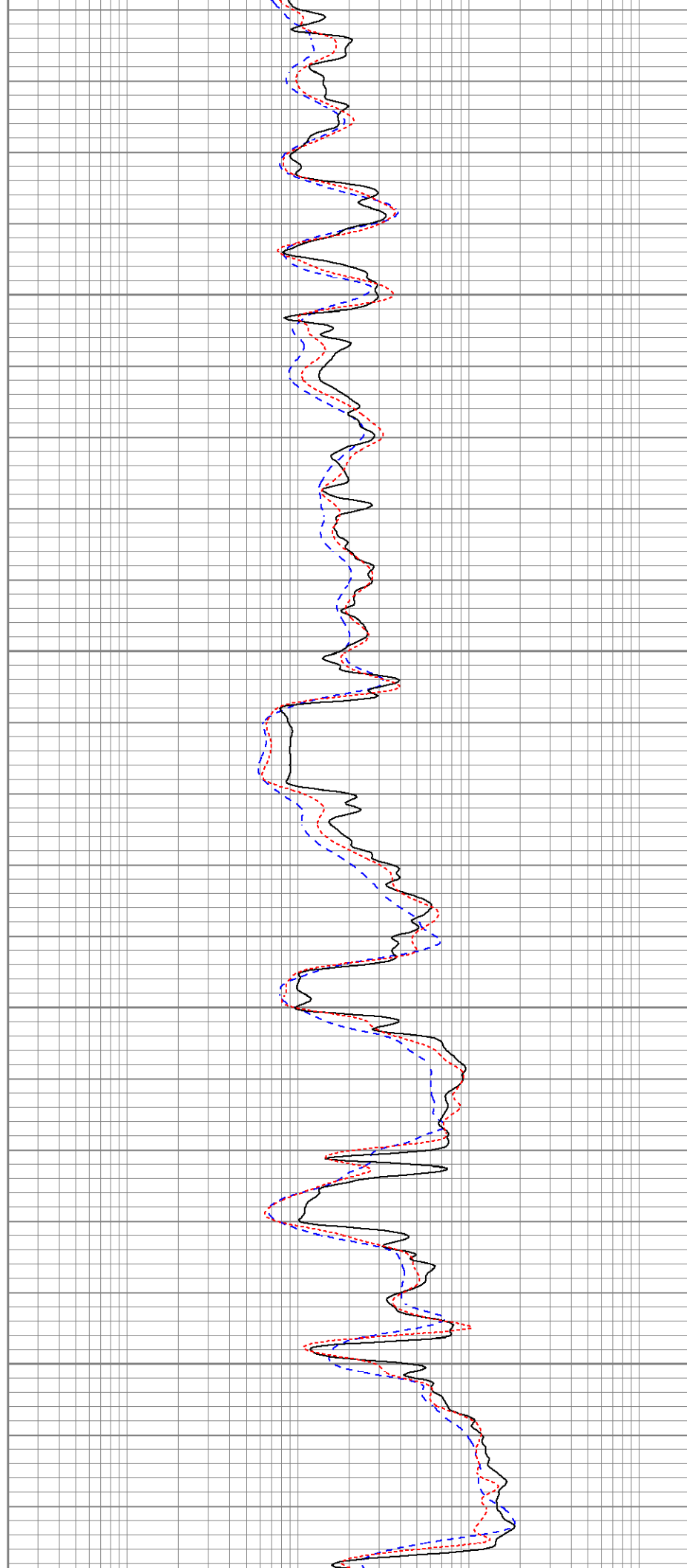


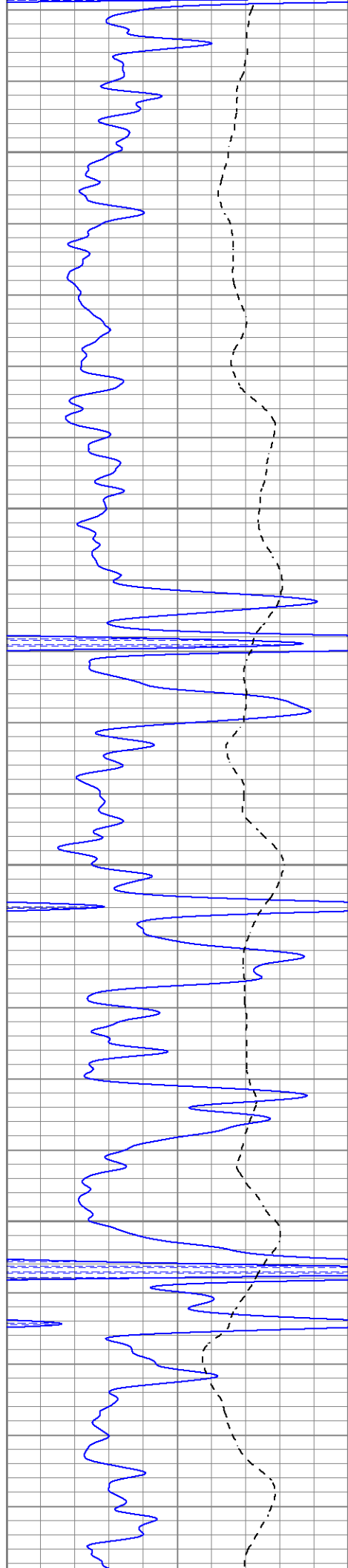
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3800

3850

3900



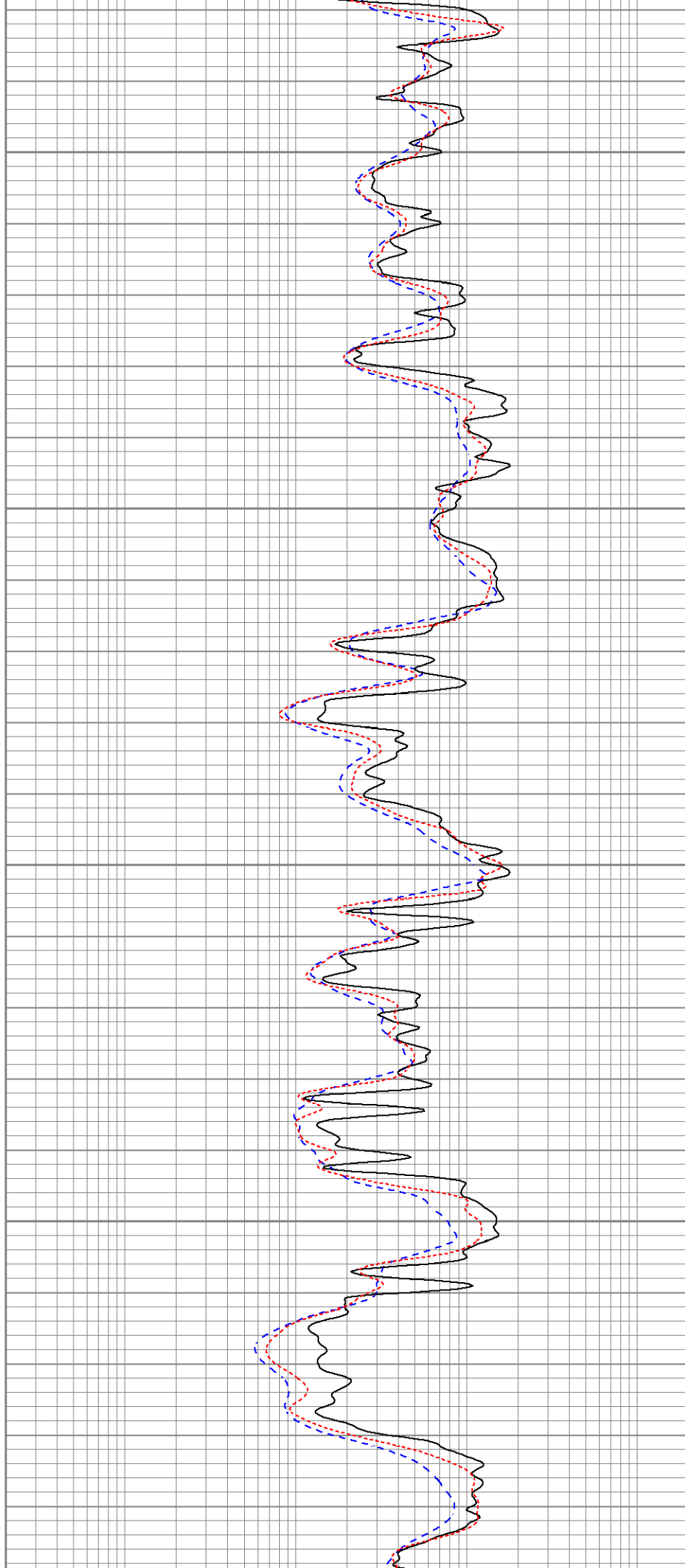


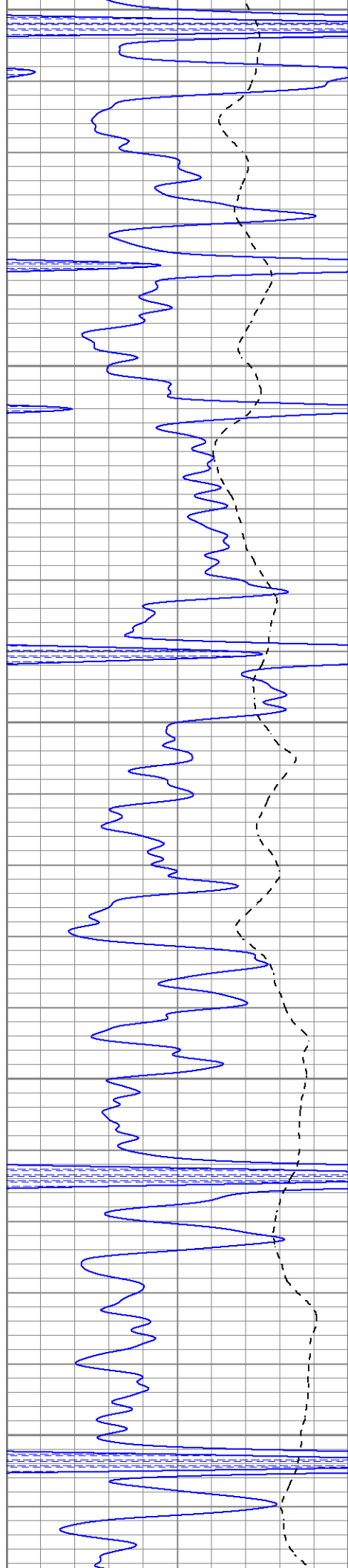
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4000

4050

4100





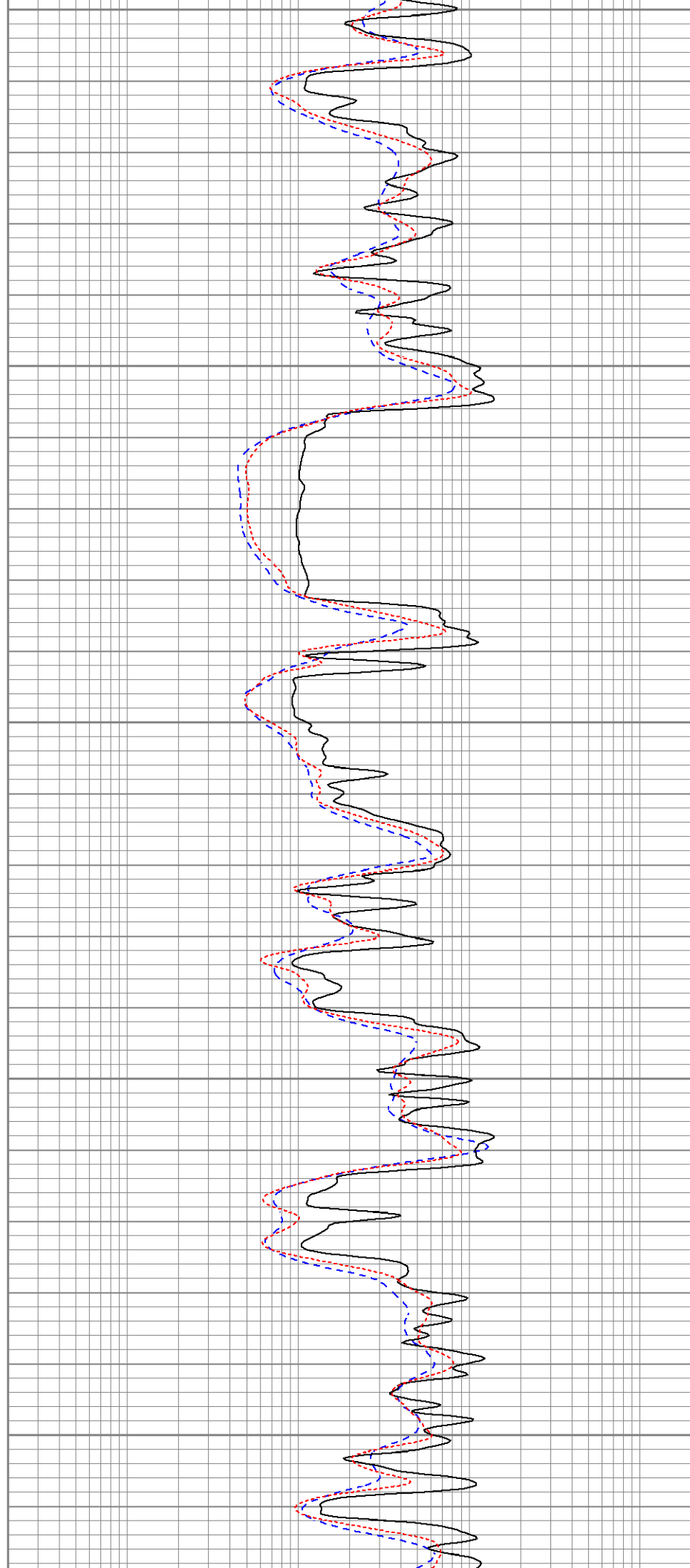
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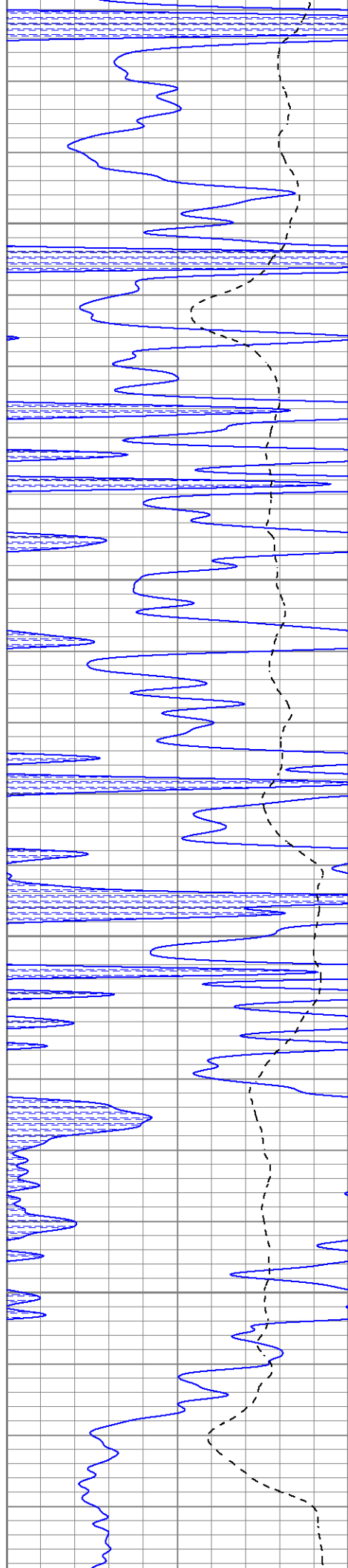
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4250

4300

4350



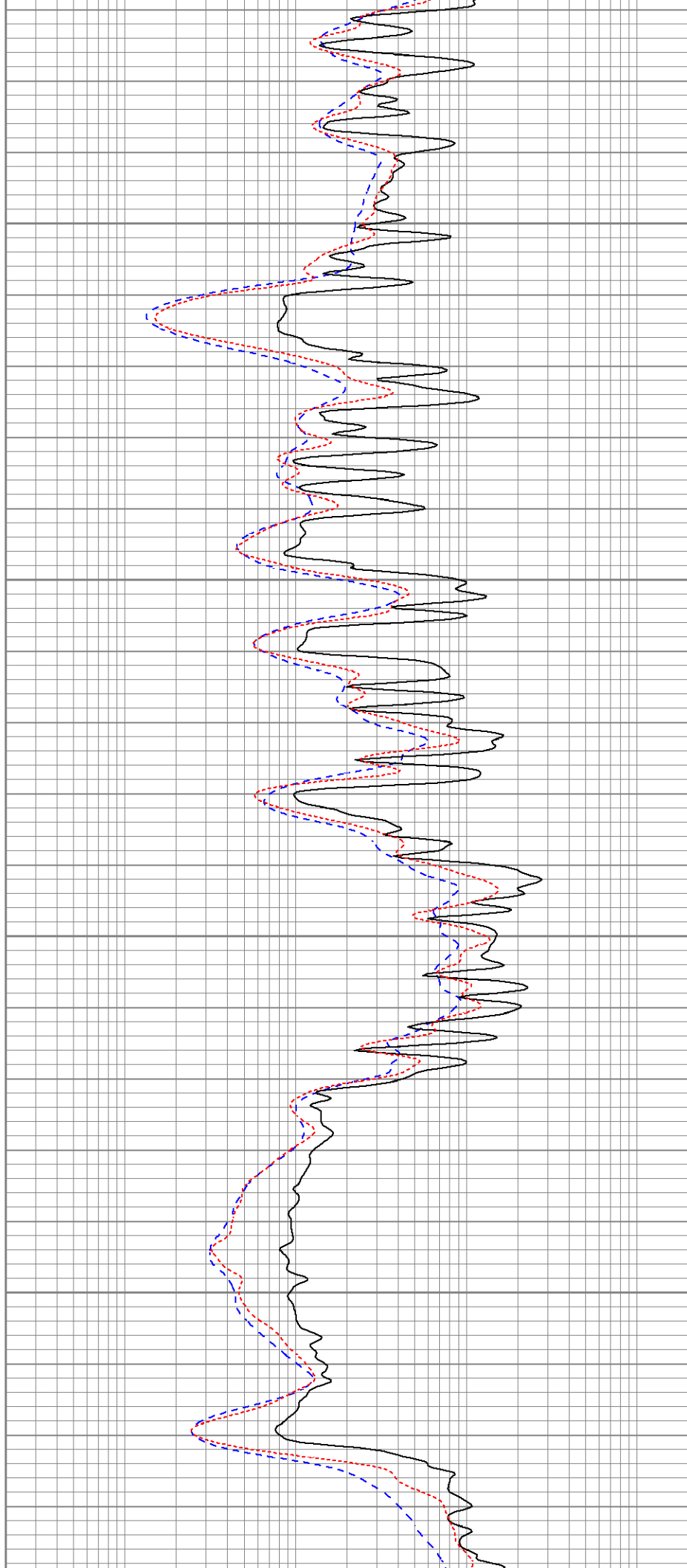


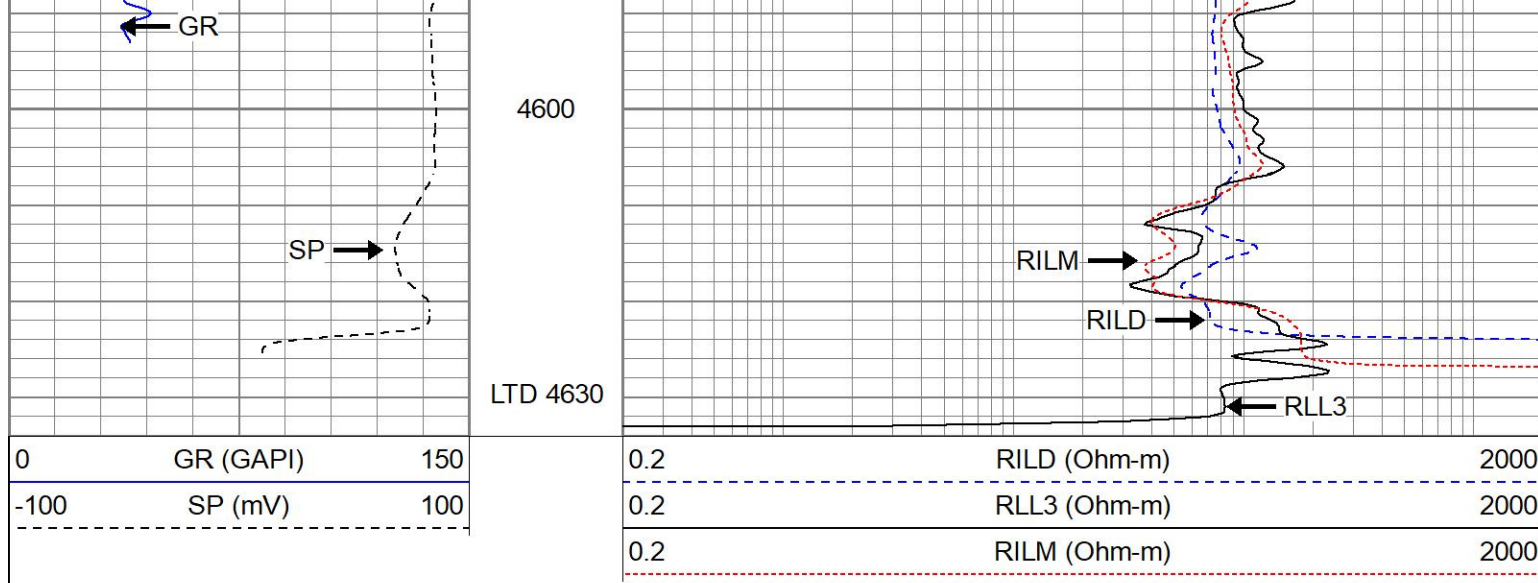
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4450

4500

4550

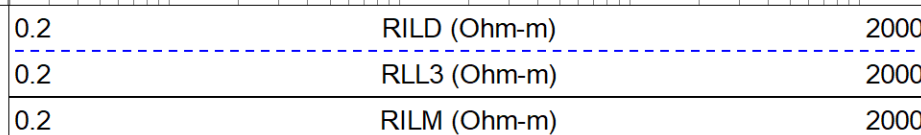




REPEAT SECTION

Database File hghbp#1-6oh.db
 Dataset Pathname pass2.1
 Presentation Format kdil
 Dataset Creation Mon Oct 31 19:20:30 2022
 Charted by Depth in Feet scaled 1:240





```
Database File      hghbp#1-6oh.db
Dataset Pathname  pass2.1
Dataset Creation   Mon Oct 31 19:20:30 2022
```

Serial-Model:	1842-ADM
Surface Cal Performed:	Mon Sep 20 22:00:42 2021
Downhole Cal Performed:	Mon Sep 20 22:00:24 2021
After Survey Verification Performed:	Mon Sep 20 22:05:52 2021

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475	-9.896
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607	-1.745
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240	-9.549
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637	-2.088

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.219	349.905	mmho/m	-0.343	349.810	mmho/m	1.000	-3.124
Medium	-0.118	399.722	mmho/m	-0.226	399.745	mmho/m	1.000	-3.108
Shallow	2.536	0.025	V	500.000	2.000	Ohm-m	170.330	-1.504

After Survey Verification								
Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.219	349.905	mmho/m	1.000	-3.124
Medium	0.000	0.000	mmho/m	-0.118	399.722	mmho/m	1.000	-3.108
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report								
Serial Number:			AD5139					
Tool Model:			ADMY5139					
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:		Fri Apr 19 12:15:04 2019			
		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 May 5 19:20:48 2021					
			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 Jun 15 11:53:49 2022					
Calibrator Model:			1.0		GAPI			
Calibrator Reading:			1.0		GAPI			
Sensitivity:			1.0		GAPI			

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.1000	GAPI/cps