



DUAL INDUCTION LOG

Company	BEREXCO LLC.	Well	KARLIN B #3	Field	BEMIS-SHUTTS	County	ELLIS	State	KS
Location:	750' FSL & 385' FWL			API # : 15 051 27031		Other Services CDNL ML			
Permanent Datum	SEC 1	TWP 12S	RGE 18W	Ground Level	Elevation	2105		Elevation	
Log Measured From	KB 10' AGL		KB		2115		D.F. 2113		G.L. 2105
Drilling Measured From	KB		KB		2105				
Date	3/30/22								
Run Number	One								
Depth Driller	3750								
Depth Logger	3750								
Bottom Logged Interval	3748								
Top Log Interval	00								
Casing Driller	8 5/8" @ 265'								
Casing Logger	265								
Bit Size	7 7/8"								
Type Fluid in Hole	Chemical								
Density / Viscosity	9.3/54								
pH / Fluid Loss	9.0/14.0								
Source of Sample	Pit								
Rm @ Meas. Temp	.6@65degf								
Rmf @ Meas. Temp	.45@65degf								
Rmc @ Meas. Temp	.72@65degf								
Source of Rmf / Rmc	Calculated								
Rm @ BHT	.40@98degf								
Time Circulation Stopped	12:15 P.M								
Time Logger on Bottom	2:00 P.M								
Maximum Recorded Temperature	98degf								
Equipment Number	T605								
Location	Hays, KS								
Recorded By	GUS PFANENSTIEL								
Witnessed By	BRYAN BYNOG								

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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

NORTH OF HAYS TO SEVERIN RD EAST 1 MILE,
NORTH 1 MILE, EAST INTO A MILE

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

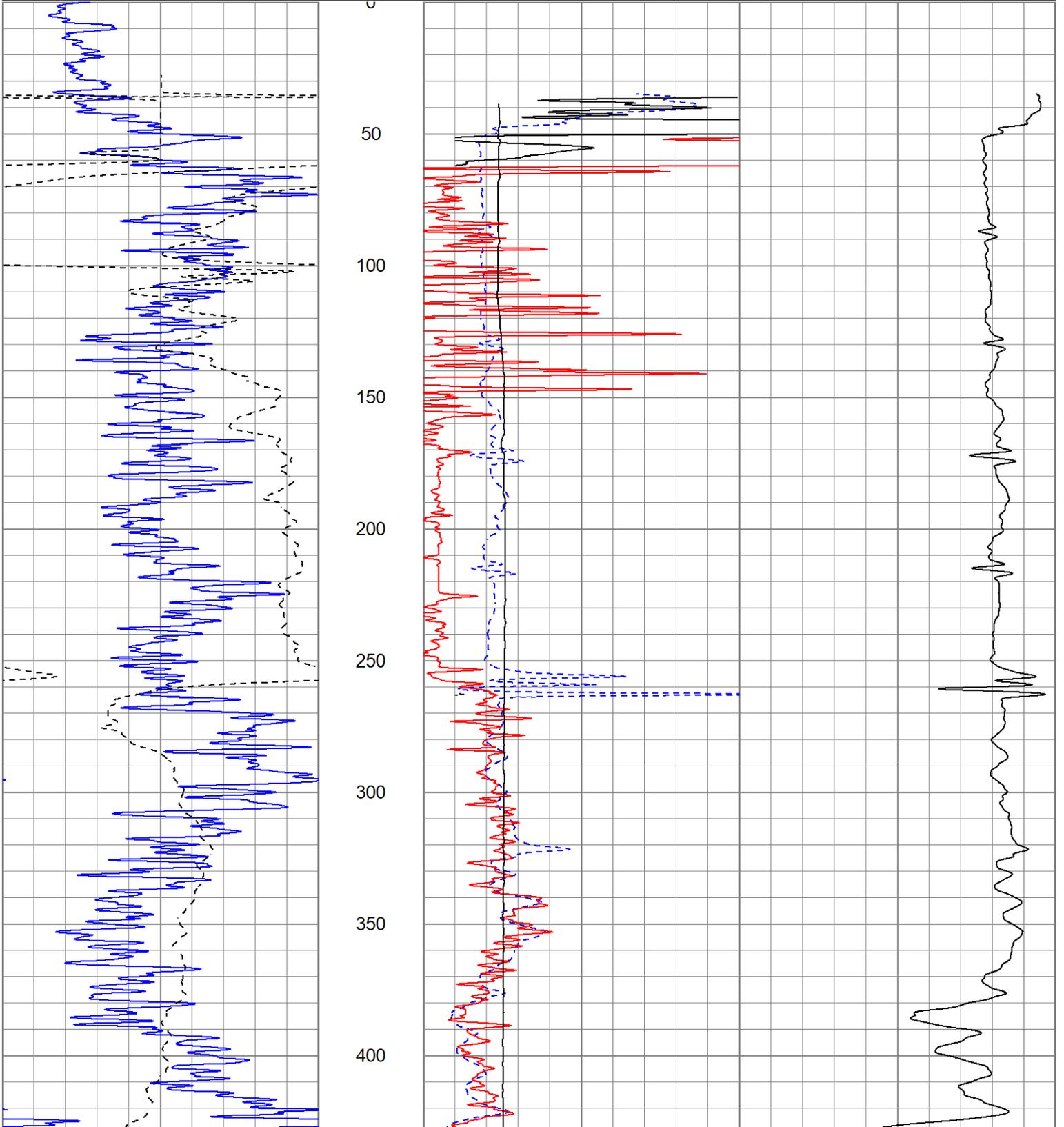


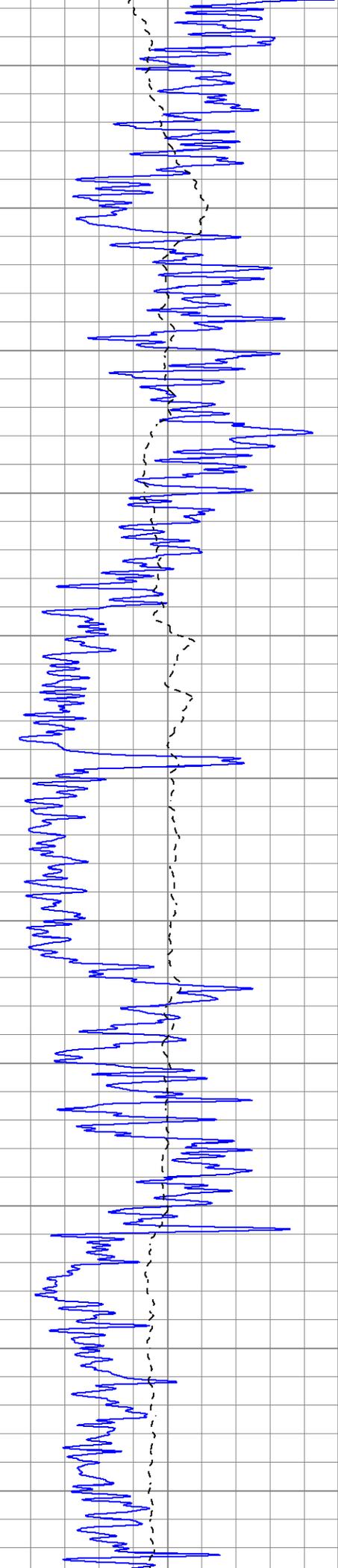
MAIN PASS

Database File berexcokarlinb#3oh.db
 Dataset Pathname pass3.1
 Presentation Format kdiillinn
 Dataset Creation Wed Mar 30 15:26:32 2022
 Charted by Depth in Feet scaled 1:600

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

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





450

500

550

600

650

700

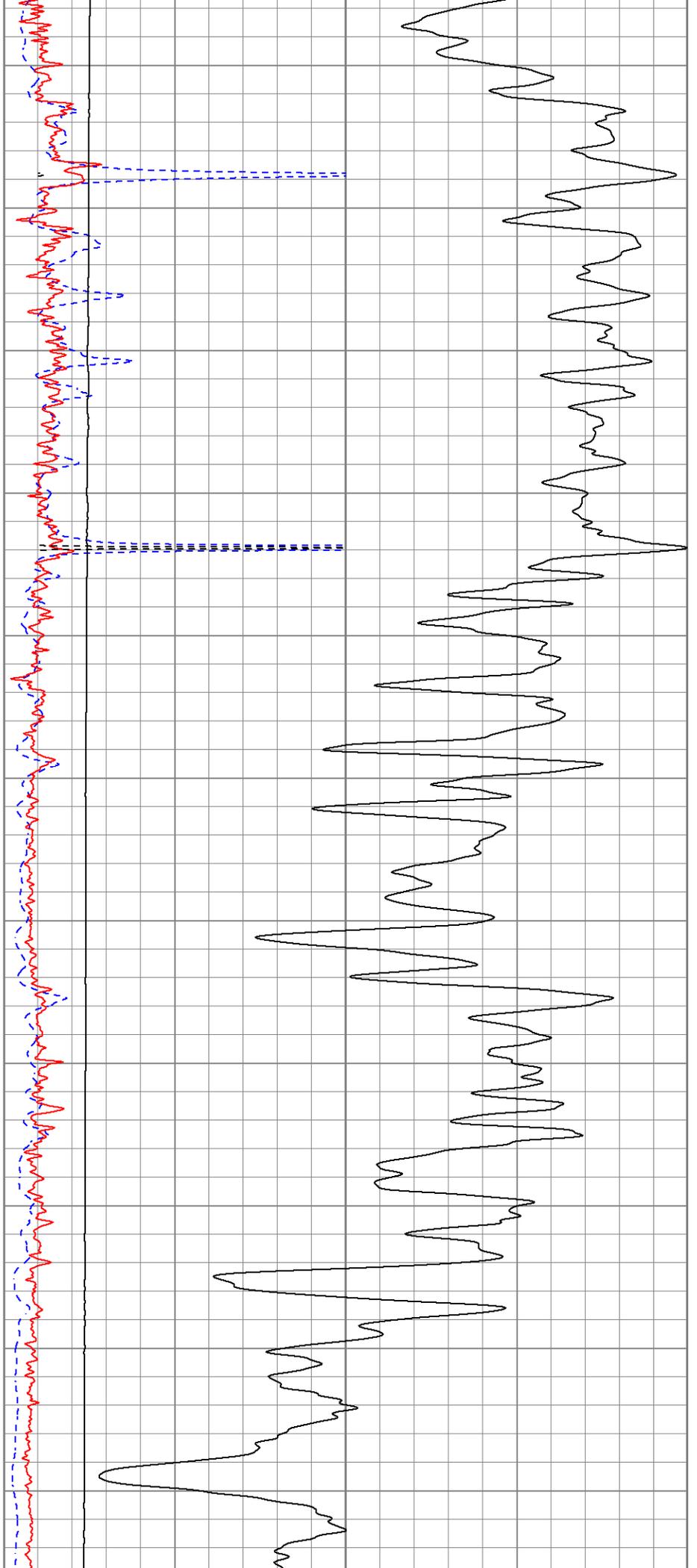
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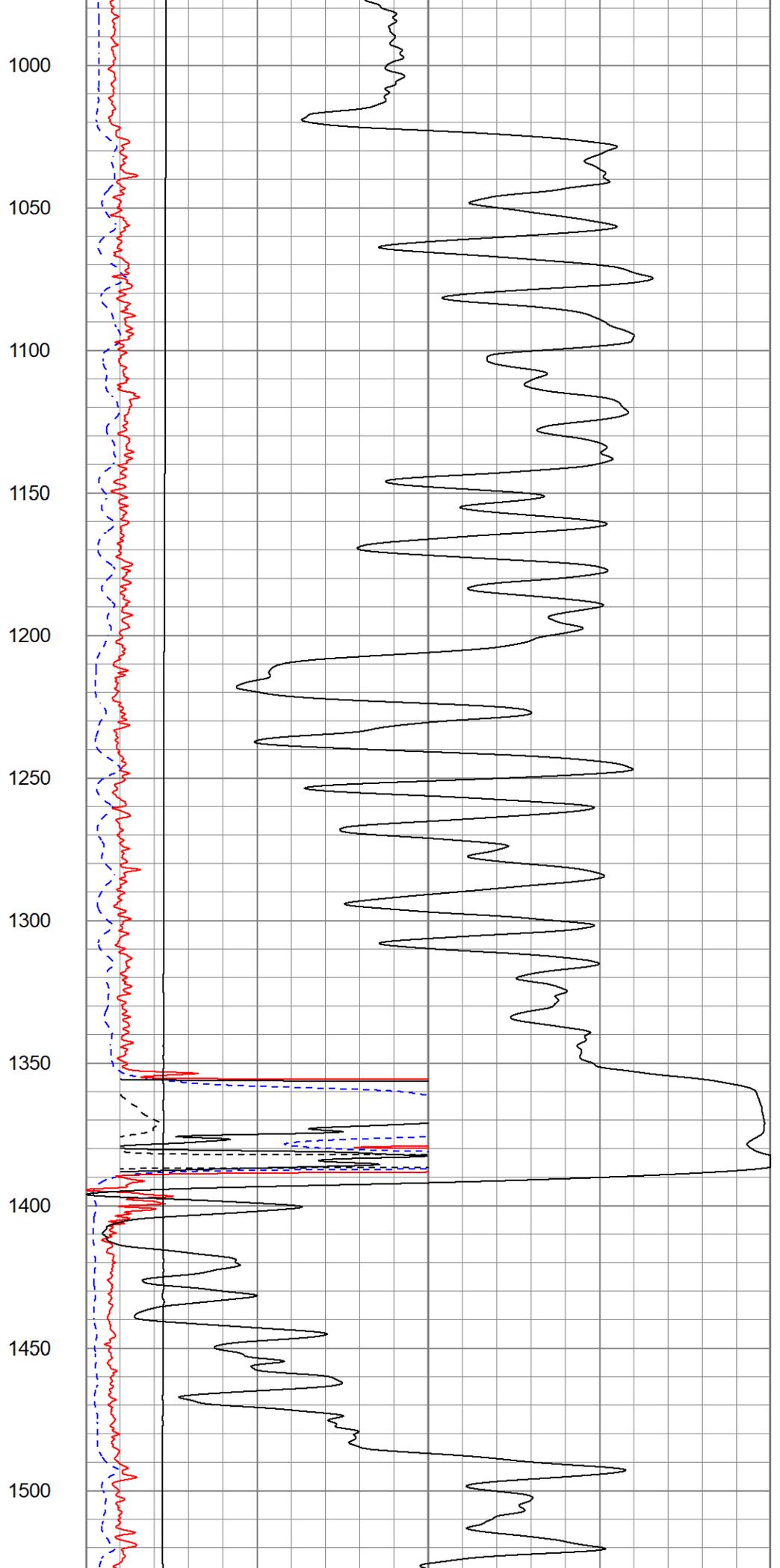
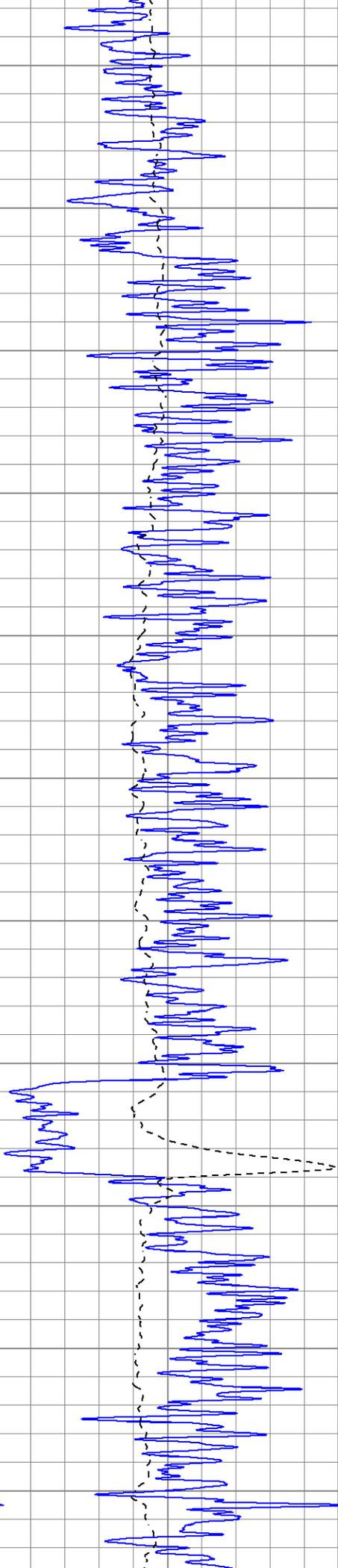
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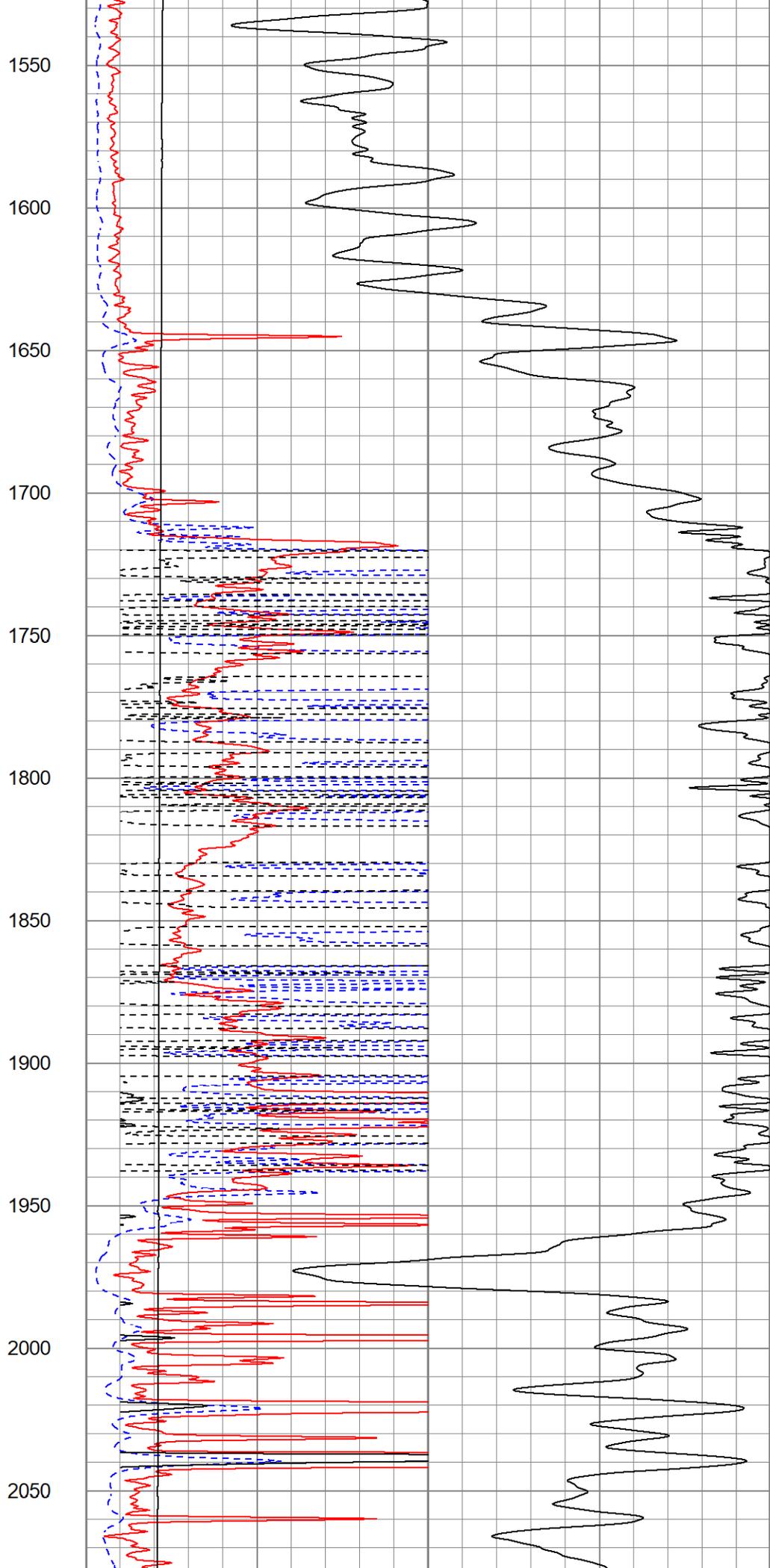
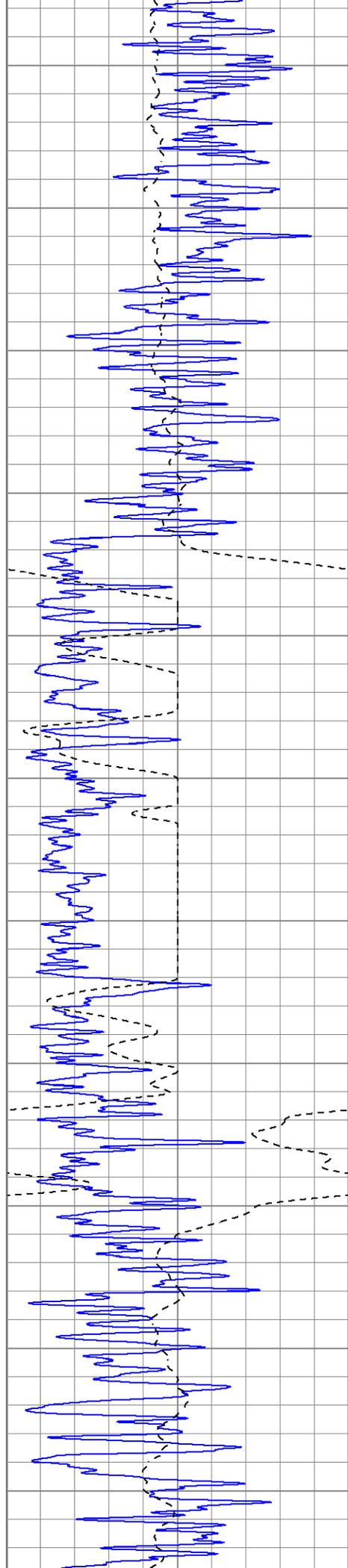
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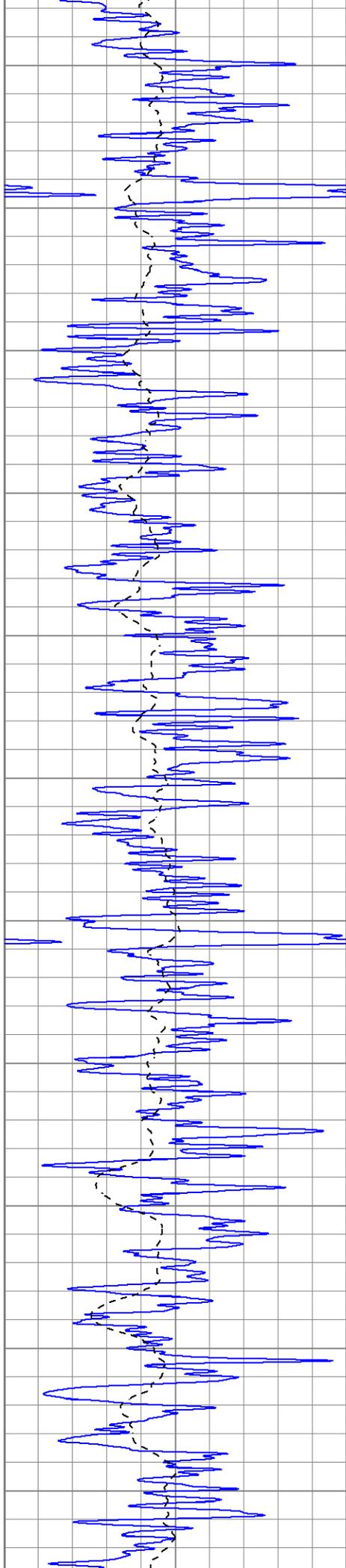
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950









2100

2150

2200

2250

2300

2350

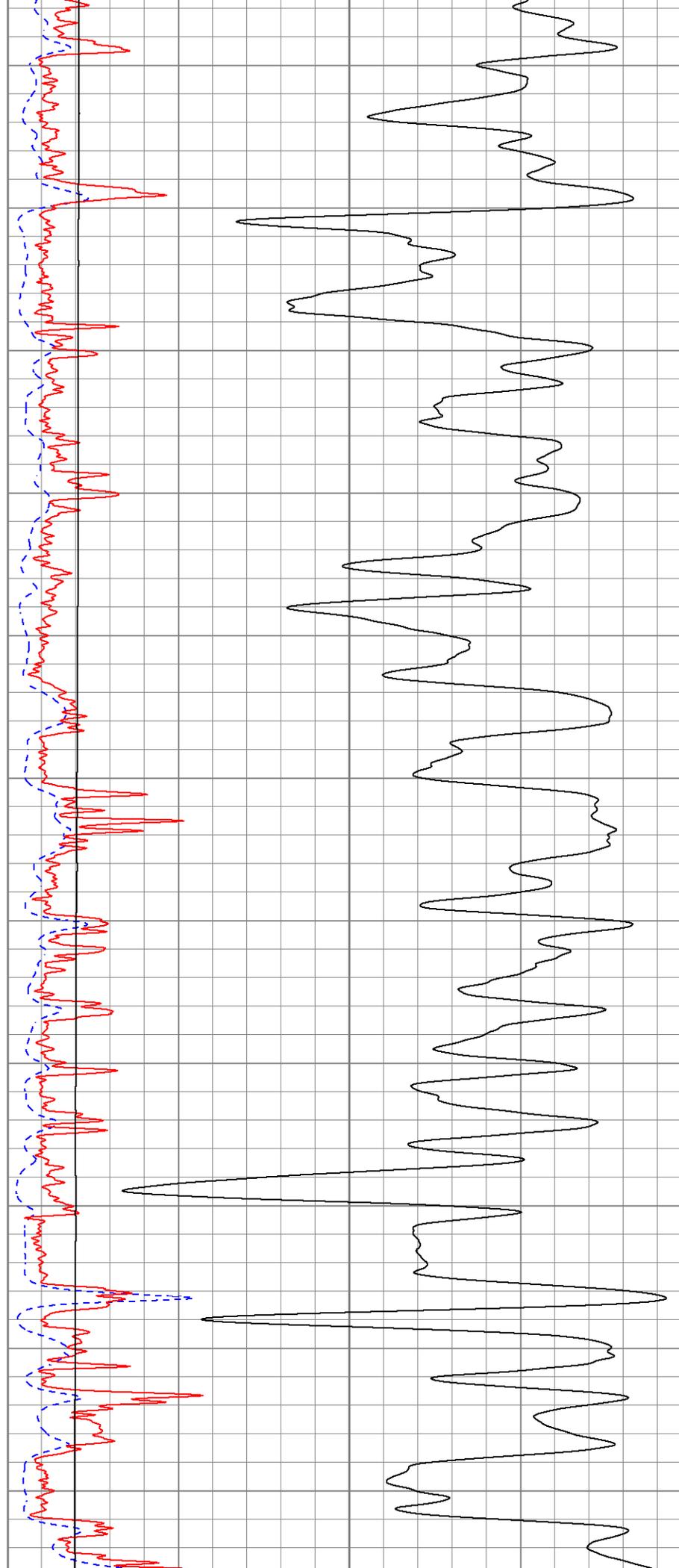
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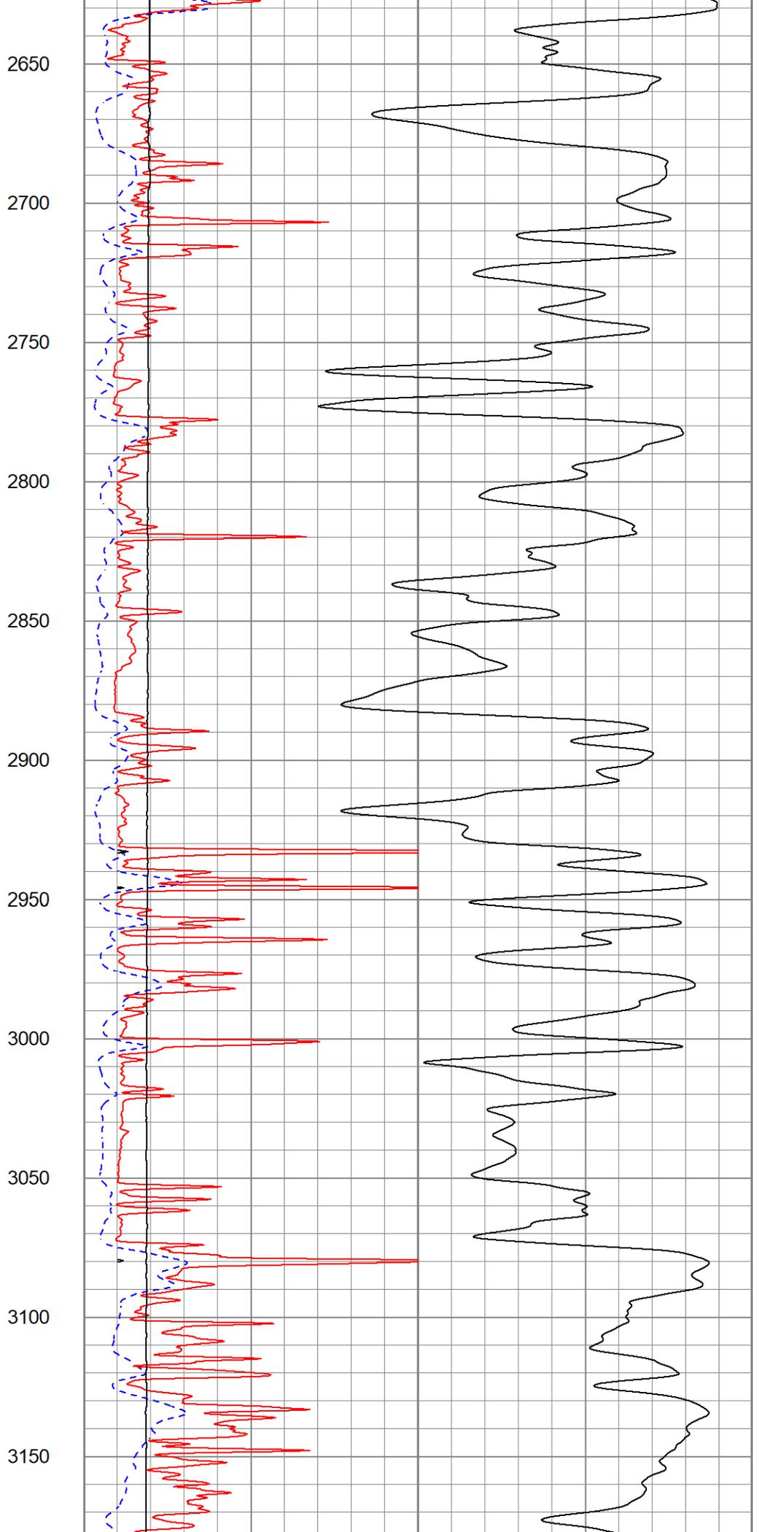
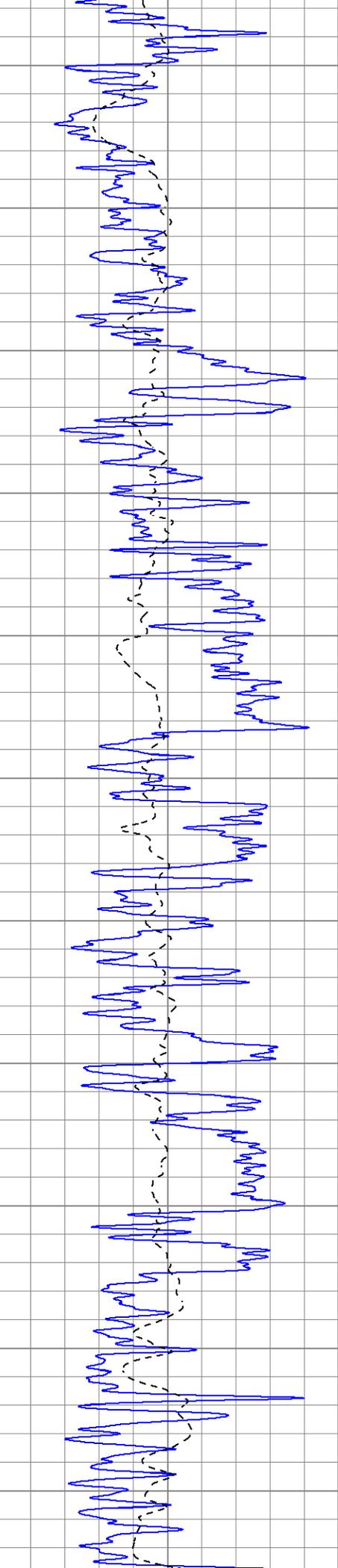
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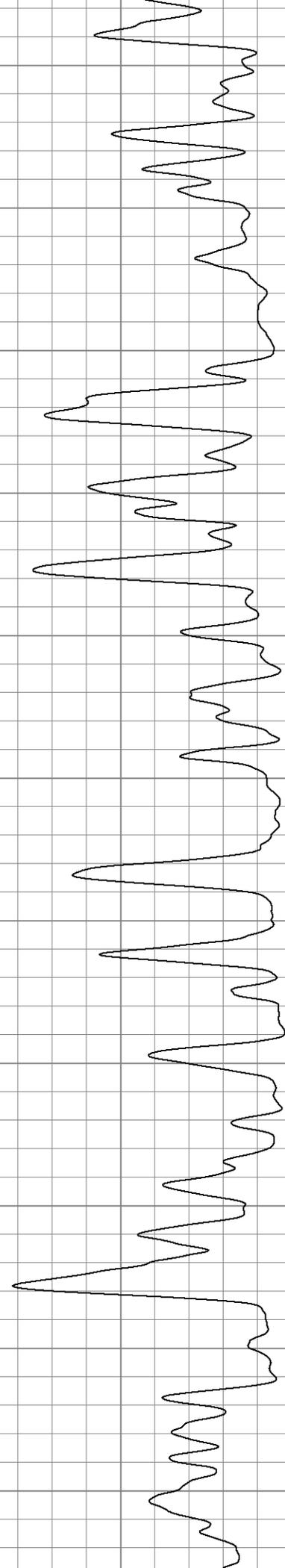
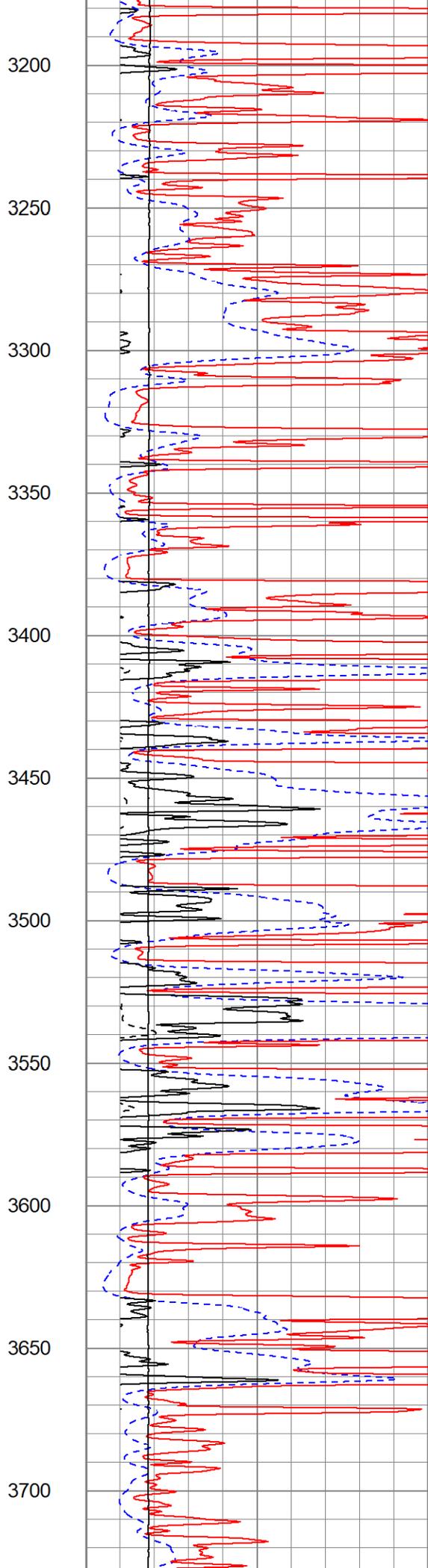
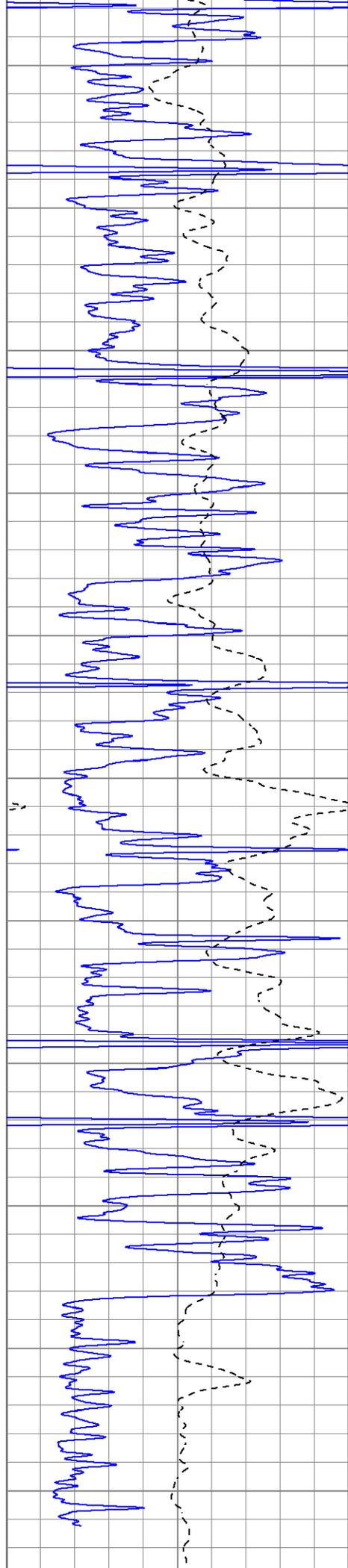
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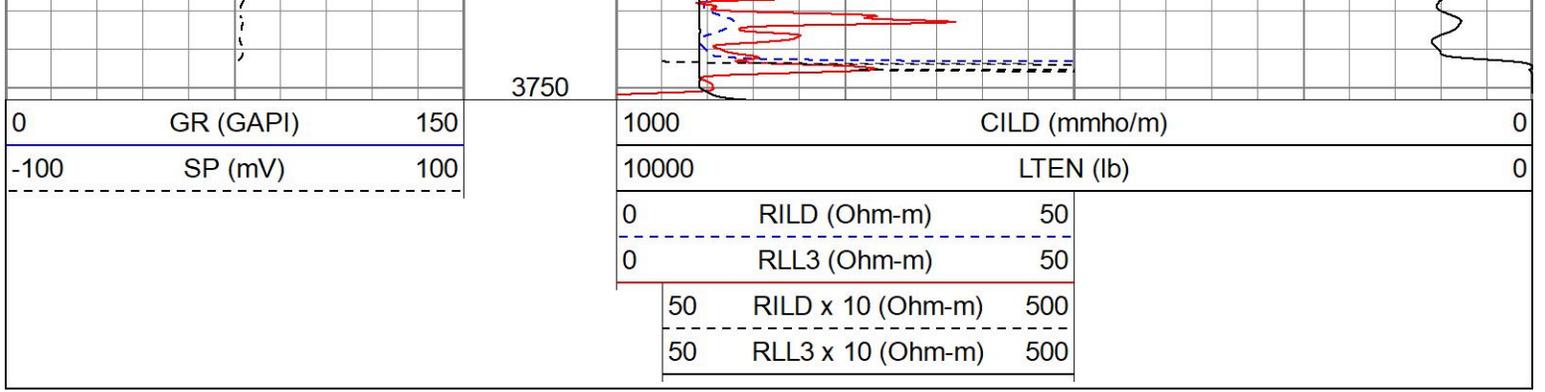
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2600



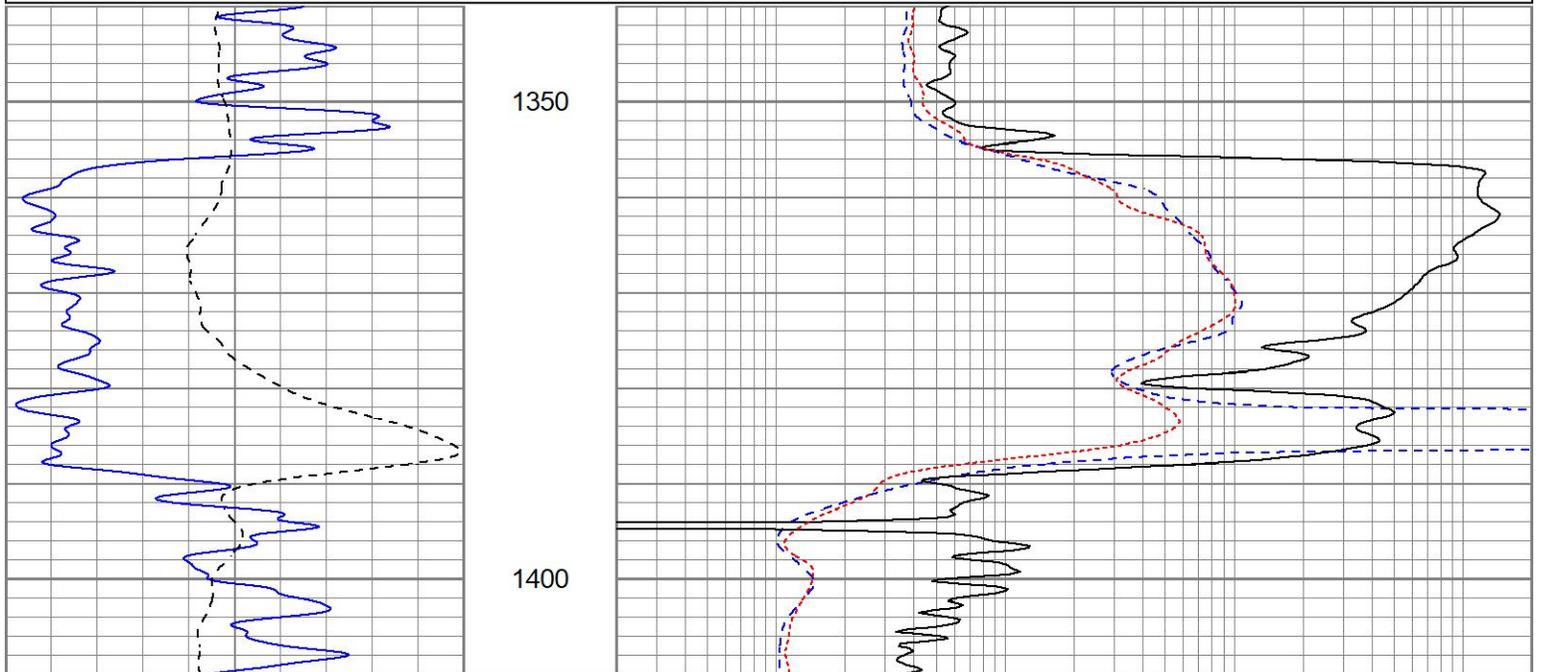
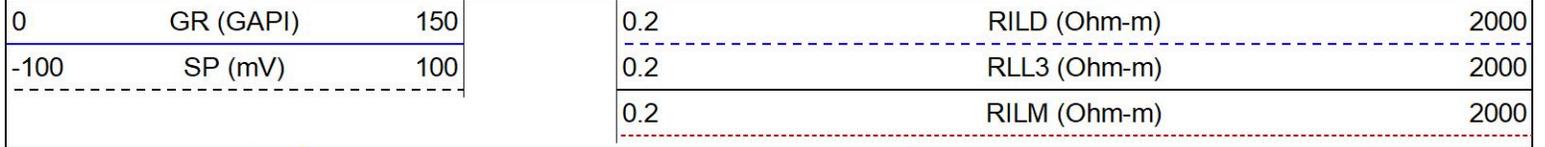







MAIN PASS

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 Presentation Format: kdil
 Dataset Creation: Wed Mar 30 15:26:32 2022
 Charted by: Depth in Feet scaled 1:240

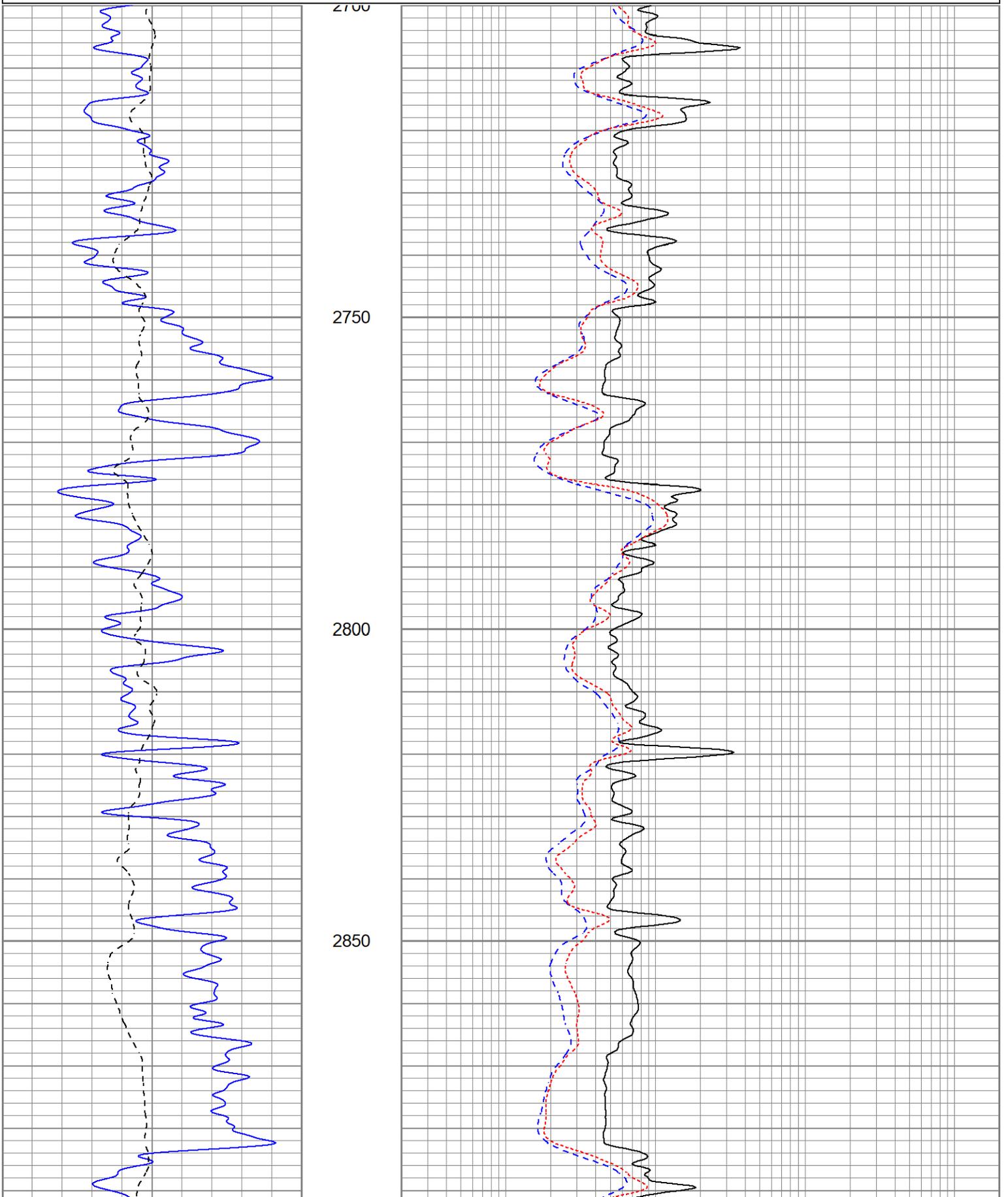



MAIN PASS

Database File: berexcokarlinb#3oh.db
 Dataset Pathname: pass3.1

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



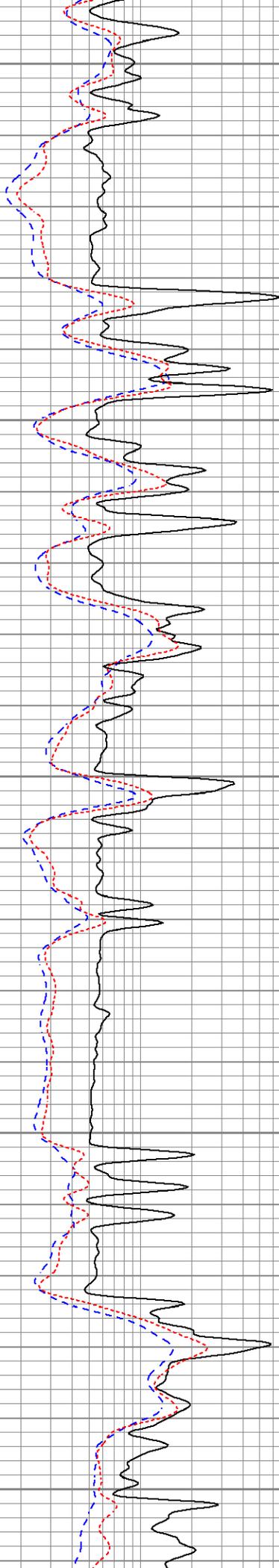
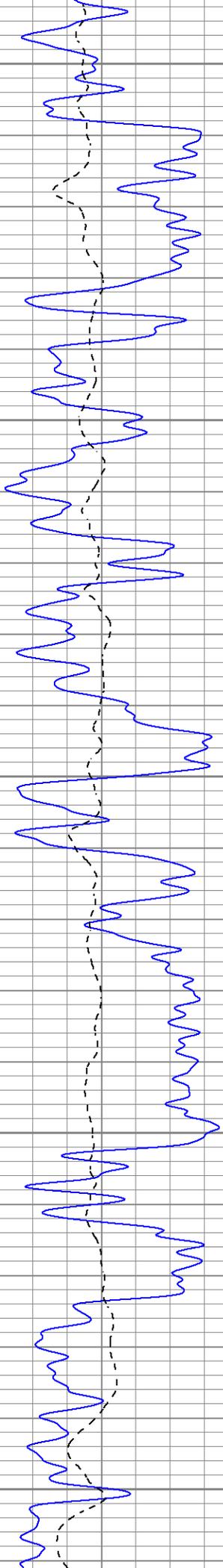
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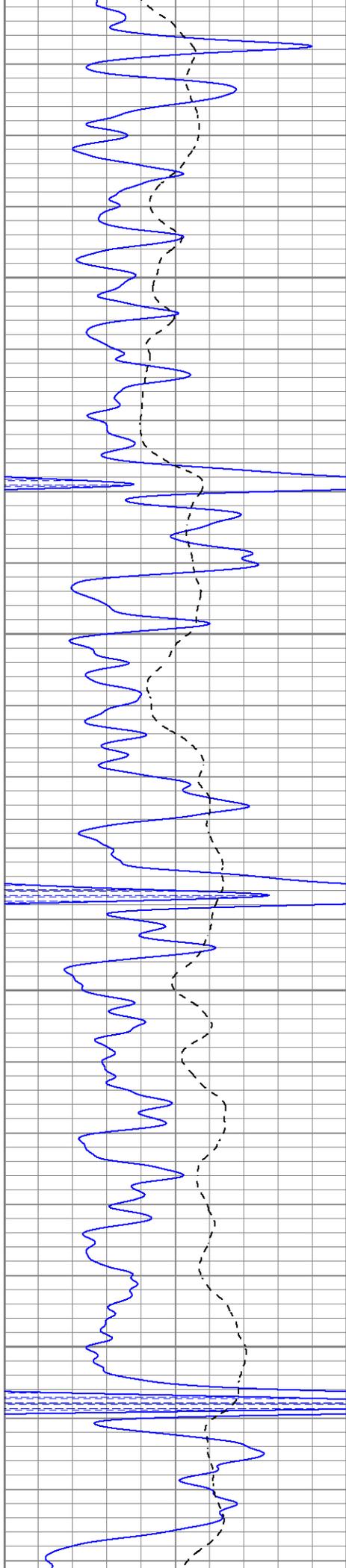
2950

3000

3050

3100



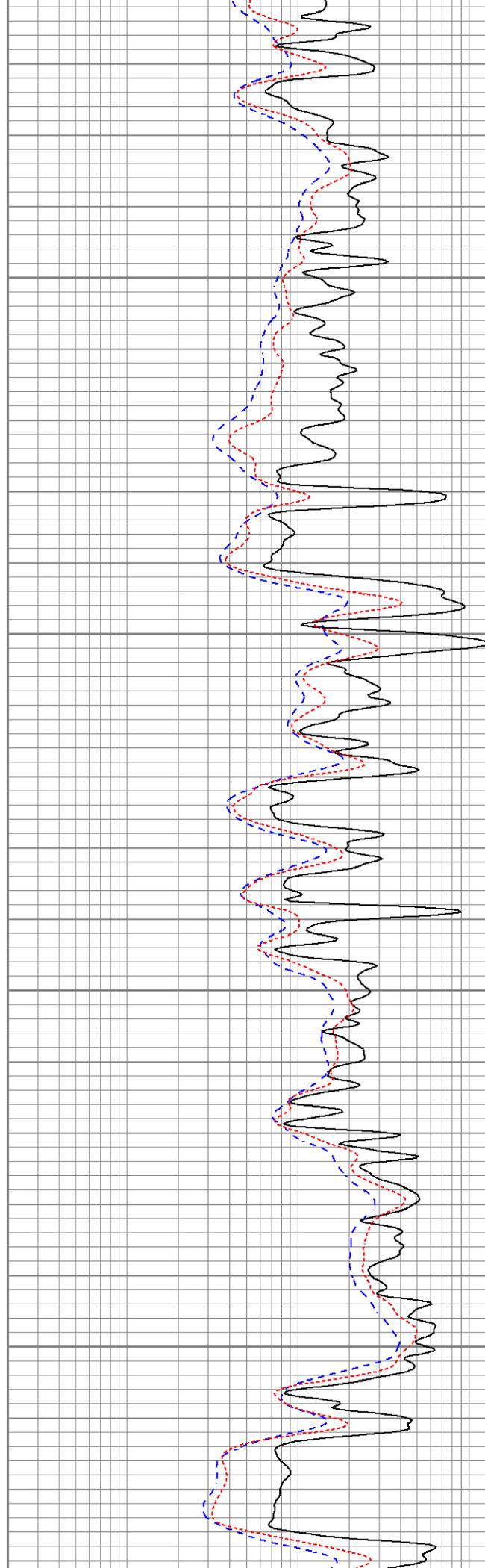


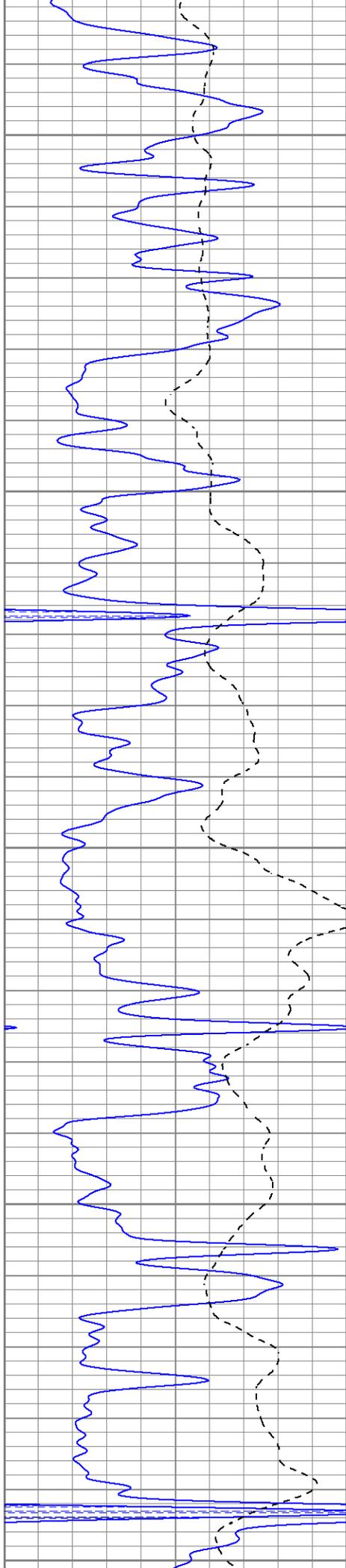
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3200

3250

3300





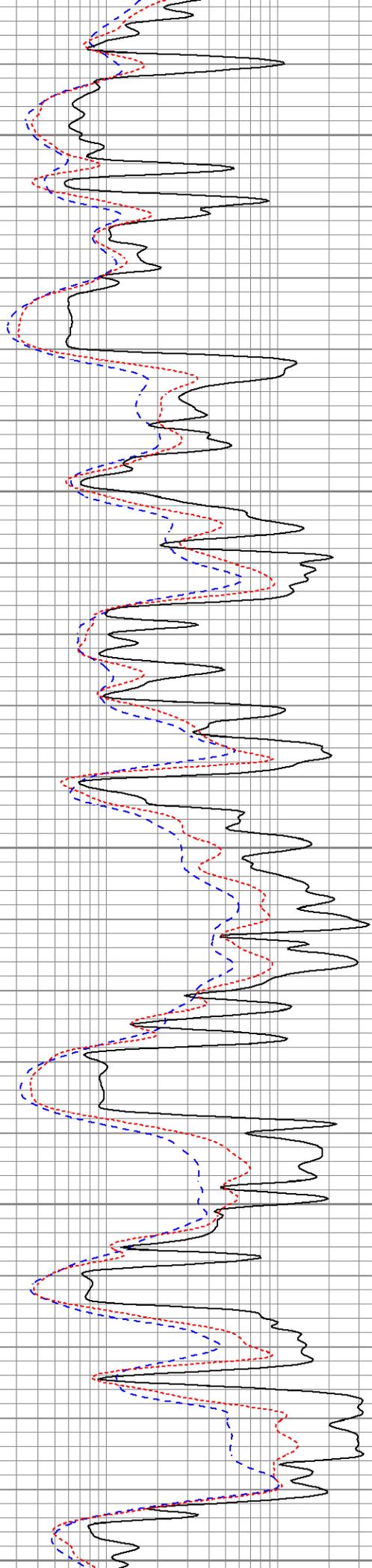
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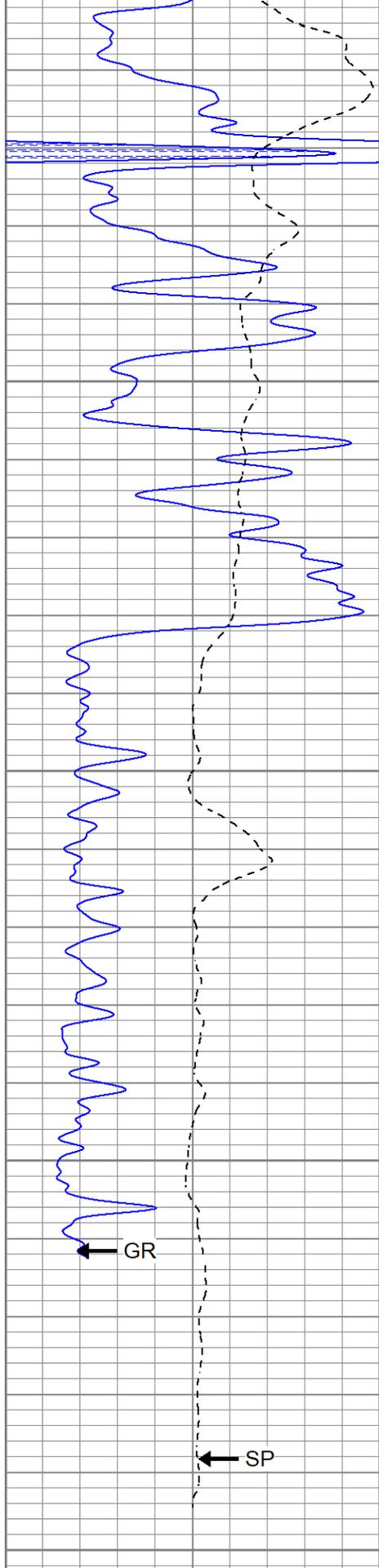
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3500

3550





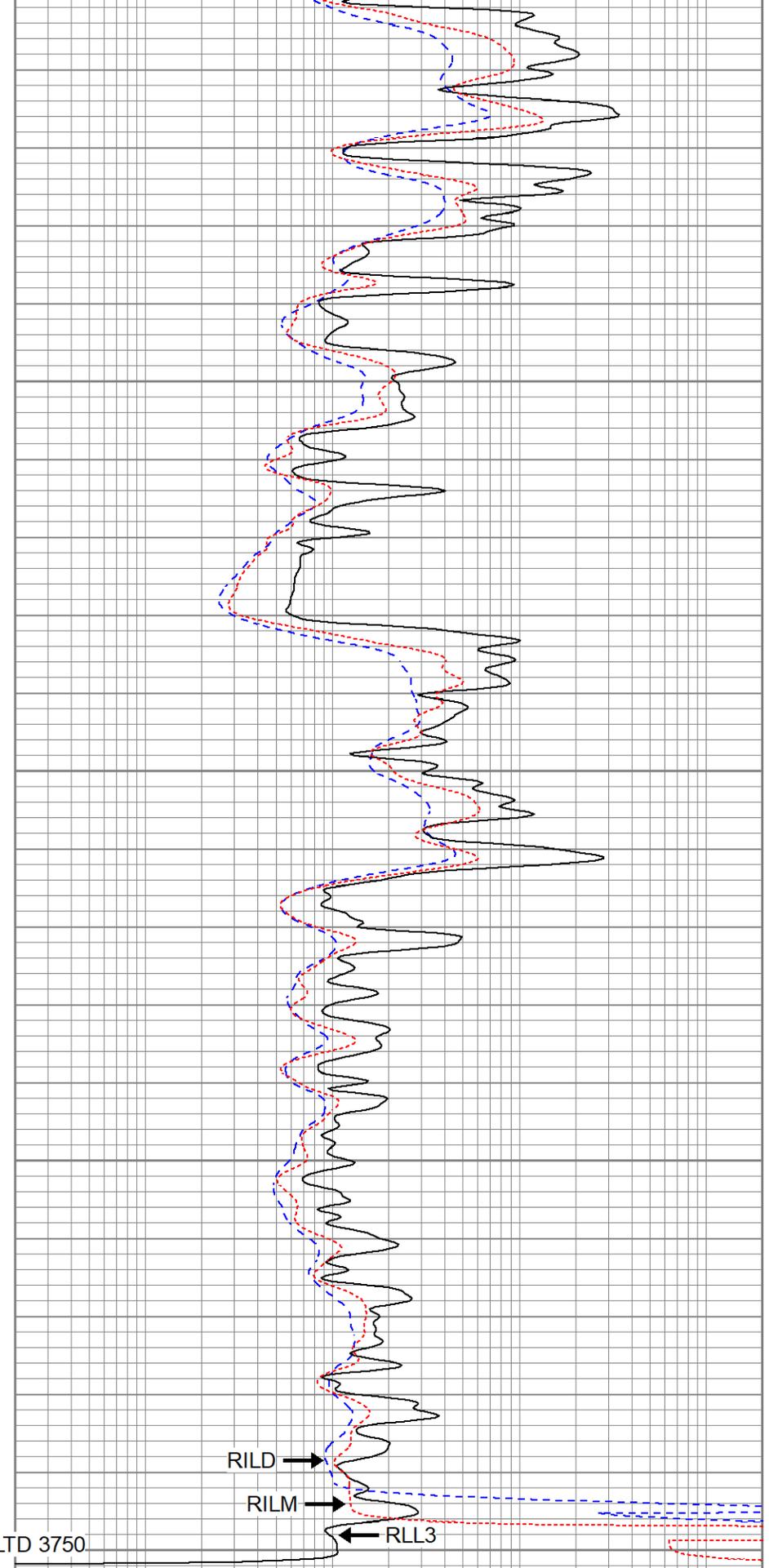
3600

3650

3700

3750 LTD 3750

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



RILD

RILM

RLL3

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

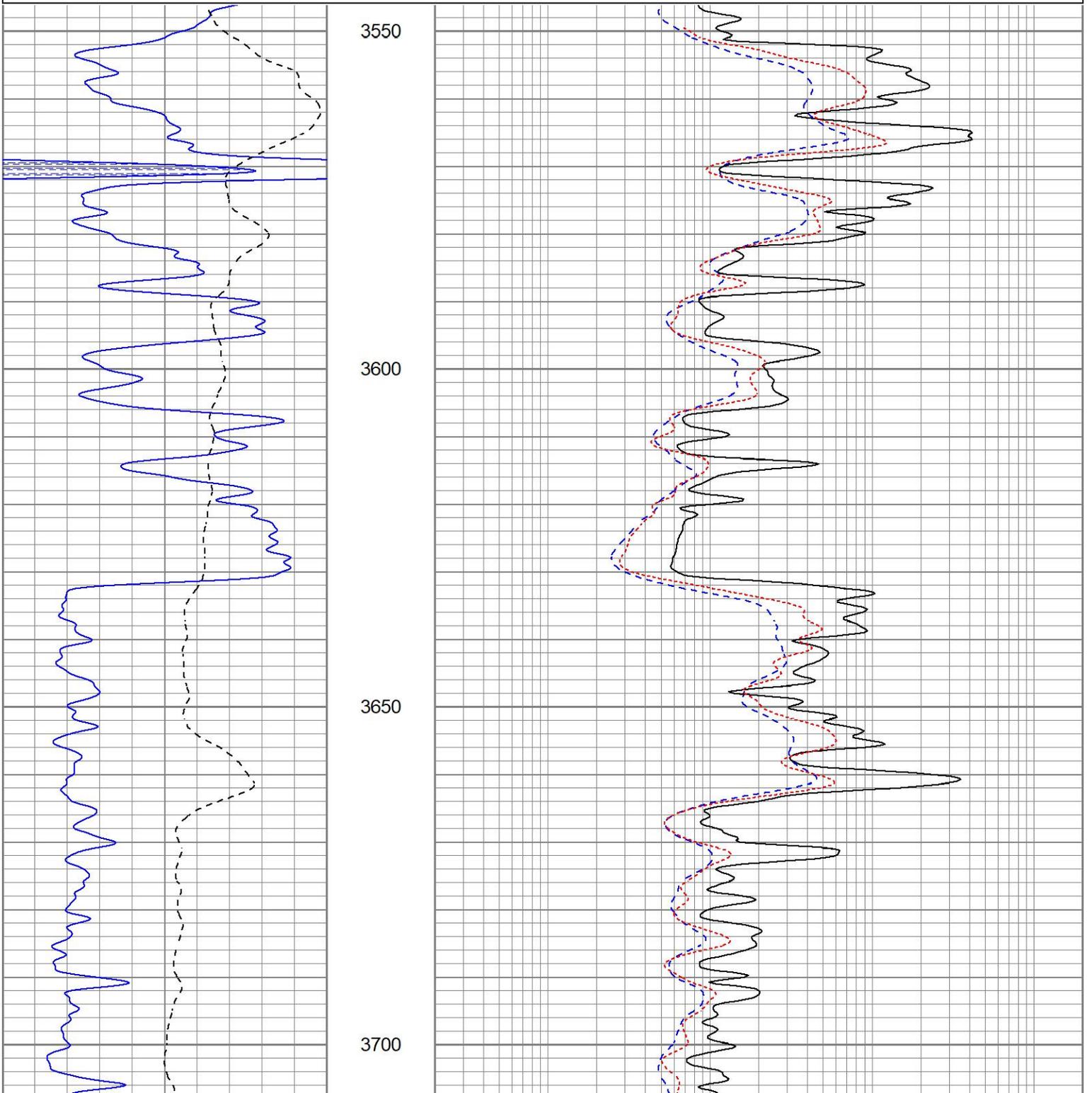


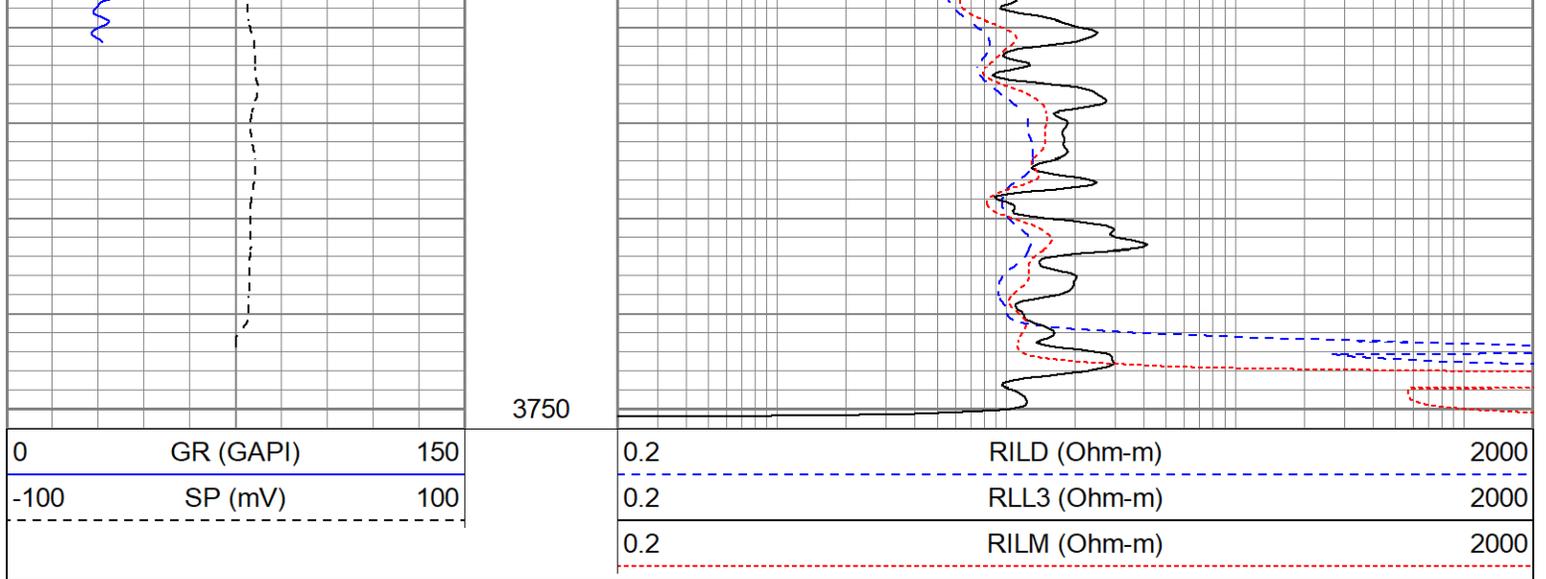
REPEAT SECTION

Database File berexcokarlinb#3oh.db
 Dataset Pathname pass2.1
 Presentation Format kdil
 Dataset Creation Wed Mar 30 14:52:33 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





Calibration Report

Database File berexcokarlinb#3oh.db
 Dataset Pathname pass2.1
 Dataset Creation Wed Mar 30 14:52:33 2022

Dual Induction Calibration Report

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

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	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:	Readings			References			Results	
	Zero	Cal	V	Zero	Cal	mmho/m	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

Internal:	Readings			References			Results	
	Zero	Cal	V	Zero	Cal	mmho/m	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	180.330	-1.504

After Survey Verification

Internal:	Readings			Targets			Results	
	Zero	Cal	V	Zero	Cal	mmho/m	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

Admyr Lithodensity Calibration Report

Serial-Model:
 Source:
 Master Calibration Performed:

1C-C
 Blue2
 Tue Oct 20 08:37:42 2020

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.670	g/cc	6640.15	4353.97	cps
Aluminium	2.640	g/cc	1651.98	2729.31	cps
Aluminium+Sleeve	2.640	g/cc	1651.98	2729.31	cps
Spine Angle = 71.44			Density/Spine Ratio = 0.661		
	PE		NLITH	NHARD	
Magnesium	1.900	barn	1410.00	1000.00	cps
Aluminium	2.400	barn	1101.00	918.50	cps
Aluminium+Sleeve	5.000	barn	656.00	951.00	cps
M = 0.448			B = -0.112	R = 0.999	
	Size		Reading		
Small Ring	8.30	in	8.61	V	
Large Ring	14.30	in	12.40	V	

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					

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	Wed May 5 19:21:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps