



DUAL INDUCTION LOG

Company	BEREXCO LLC	Well	BRAUN #4	Field	TOULON	County	ELLIS	State	KS
Location:		API # : 15-051-27102			Other Services ML POR				
Permanent Datum		SEC 3		TWP 14S	RGE 17W				
Log Measured From		Ground Level		Elevation	1989				
Drilling Measured From		KB 10' AGL							
		KB							
Date	10/12/2023								
Run Number	One								
Depth Driller	3625								
Depth Logger	3624								
Bottom Logged Interval	3622								
Top Log Interval	00								
Casing Driller	8 5/8" @ 318'								
Casing Logger	318'								
Bit Size	7 7/8"								
Type Fluid in Hole	Chemical Mud								
Density / Viscosity	8.8/57								
pH / Fluid Loss	11.5/8.0								
Source of Sample	Calculated								
Rm @ Meas. Temp	1.6@70degf								
Rmf @ Meas. Temp	1.2@70degf								
Rmc @ Meas. Temp	1.9@70degf								
Source of Rmf / Rmc	Calculated								
Rm @ BHT	1.14@98degf								
Time Circulation Stopped	7:00 A.M.								
Time Logger on Bottom	9:00 A.M.								
Maximum Recorded Temperature	98degf								
Equipment Number	T-605								
Location	HAYS, KS.								
Recorded By	COLBY DREILING								
Witnessed By	CHAD COUNTS								

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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

FROM TOULON, GO EAST 3 MILES TO 320TH AVE, THEN JUST OVER 1 NORTH THEN WEST INTO.

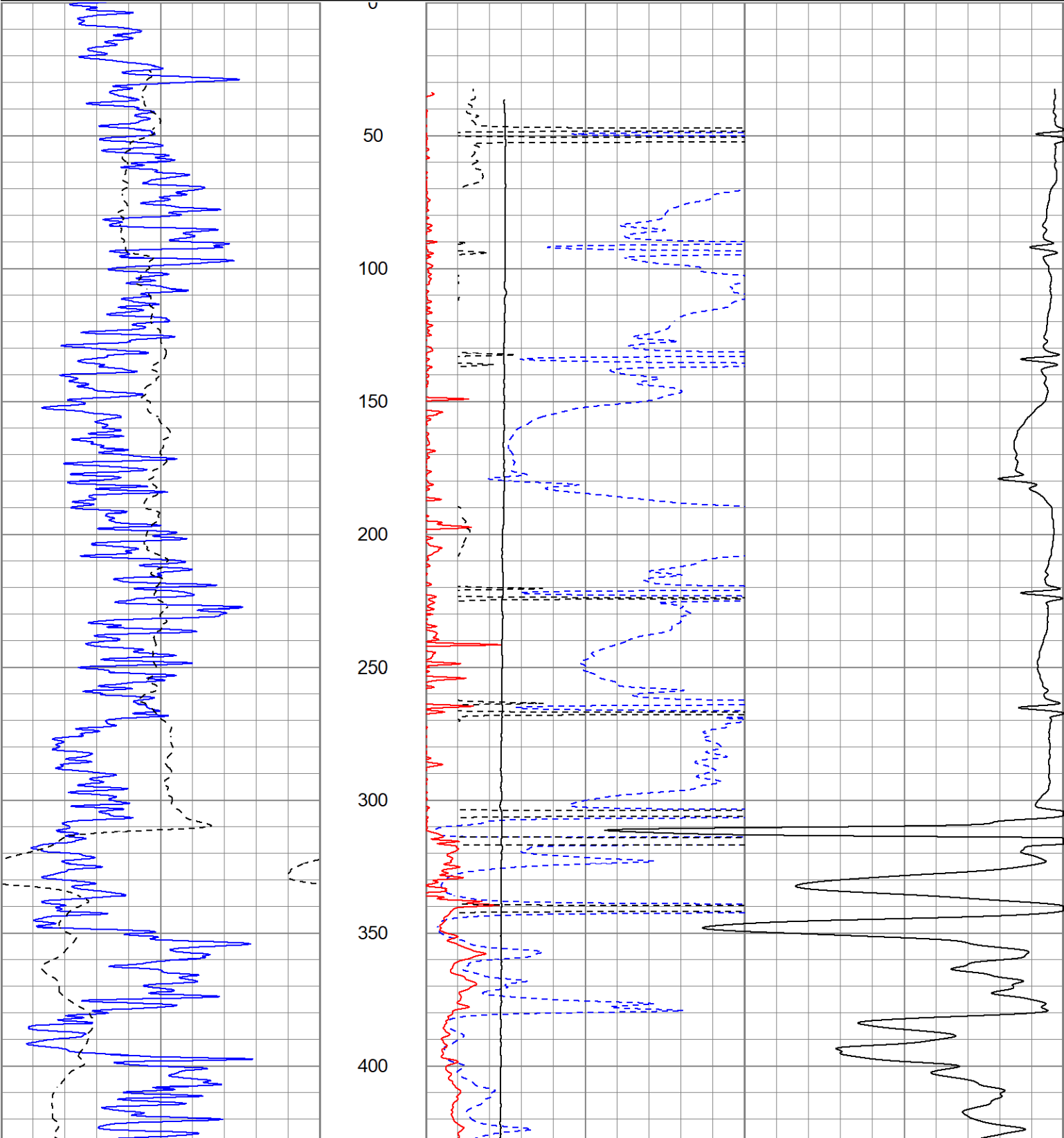
Thank you for using Gemini Wireline
785-625-1182

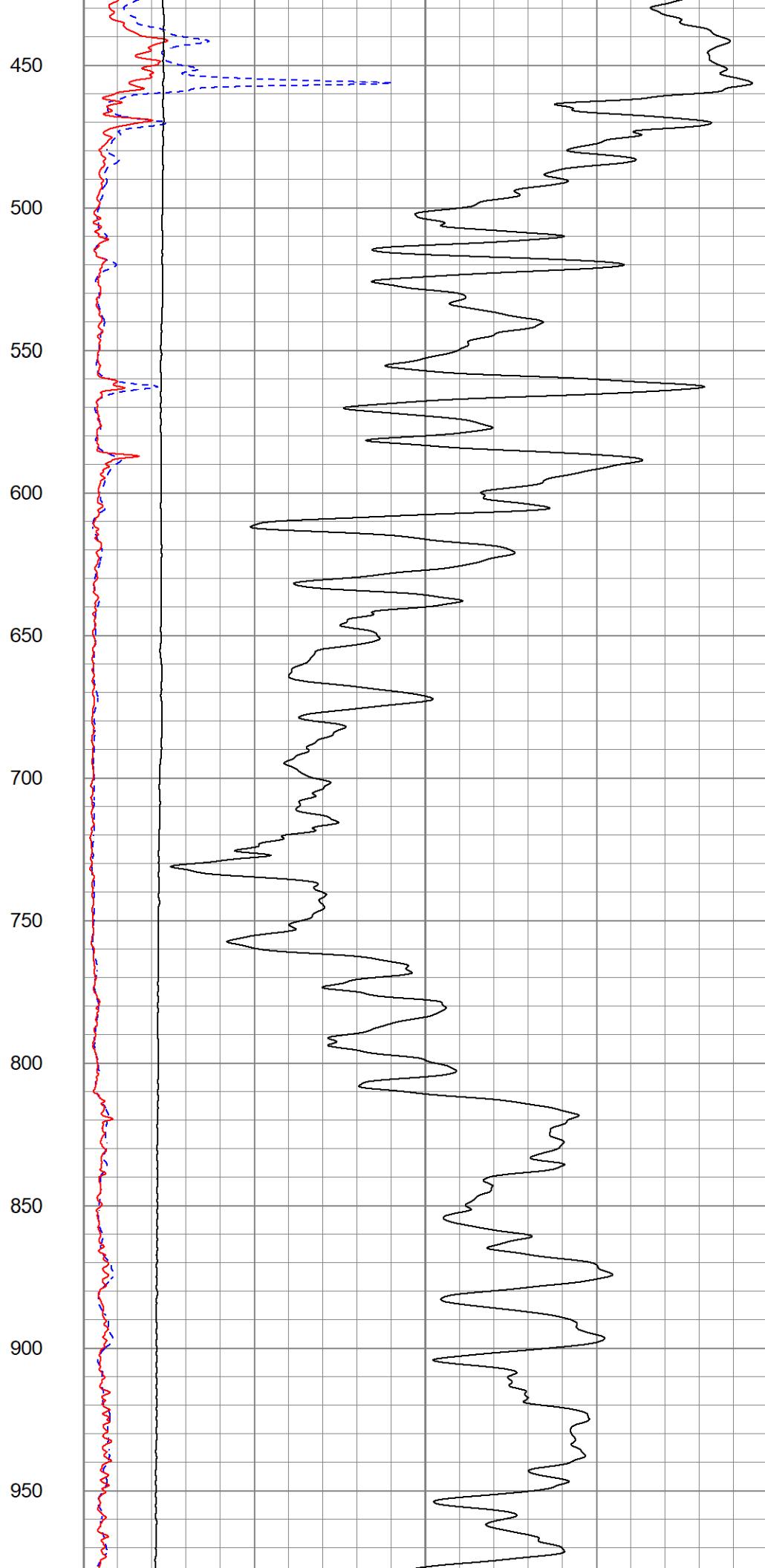
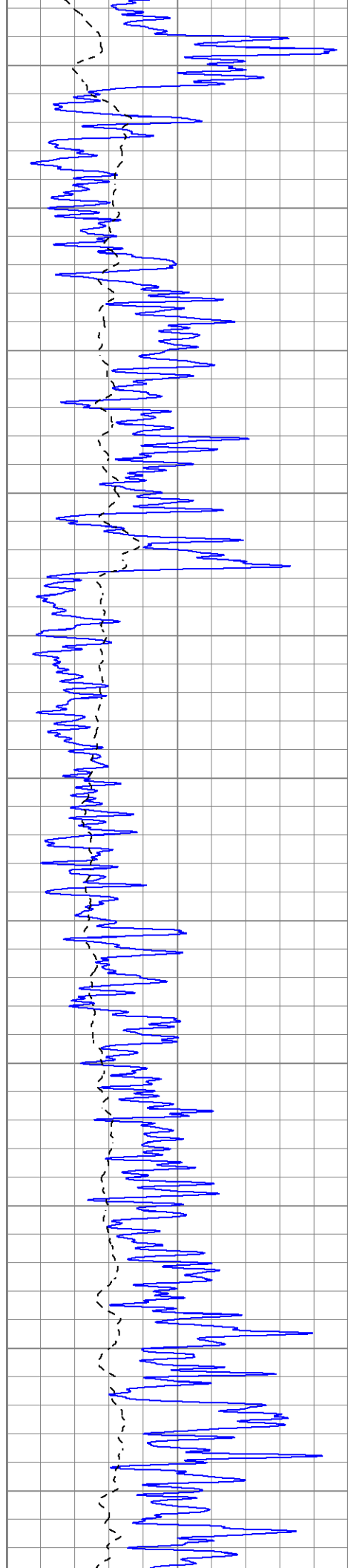


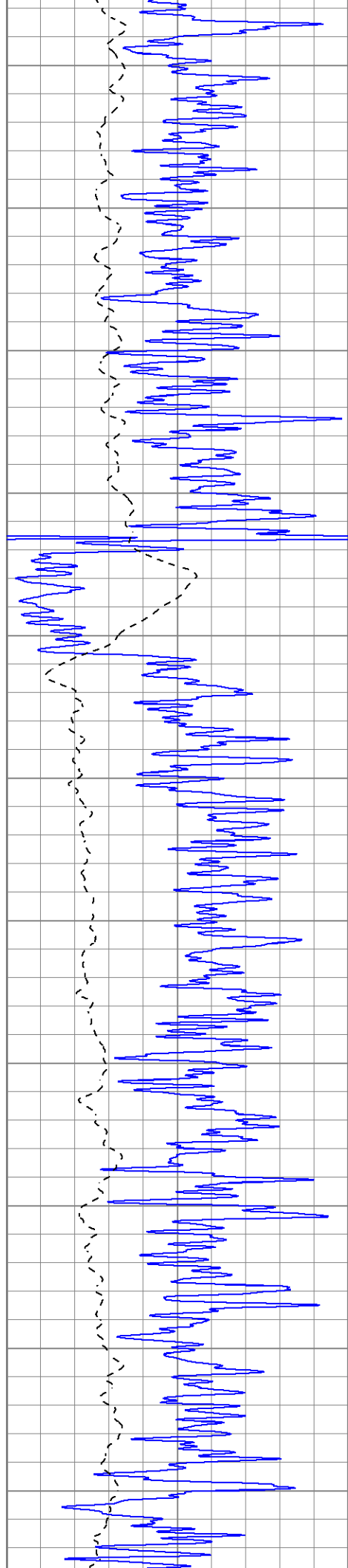
MAIN PASS

Database File	bbraun#4oh.db
Dataset Pathname	pass3.1
Presentation Format	kdillinn
Dataset Creation	Thu Oct 12 10:40:48 2023
Charted by	Depth in Feet scaled 1:600

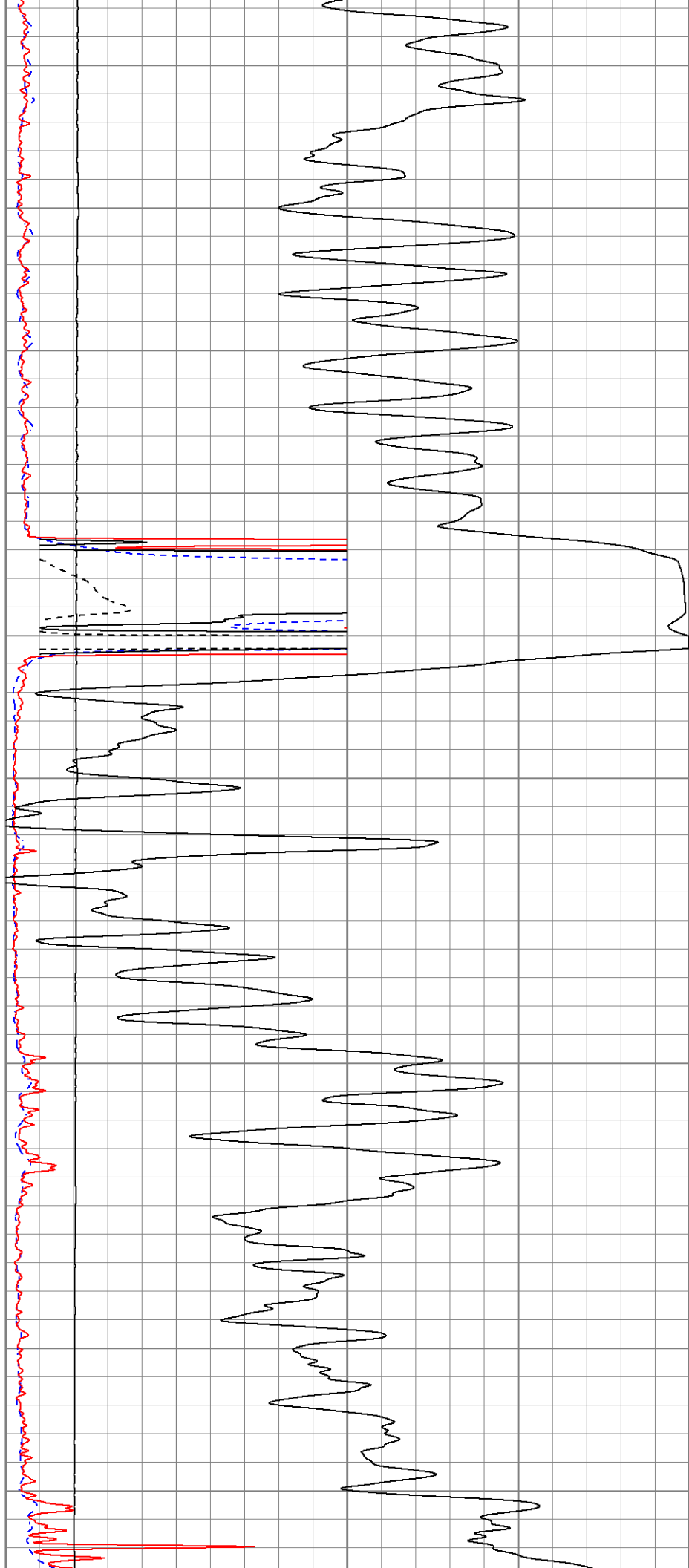
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-100	SP (mV)	100	10000	LTEN (lb)	0
			0	RILD (Ohm-m)	50
			0	RLL3 (Ohm-m)	50
			50	RILD x 10 (Ohm-m)	500
			50	RLL3 x 10 (Ohm-m)	500

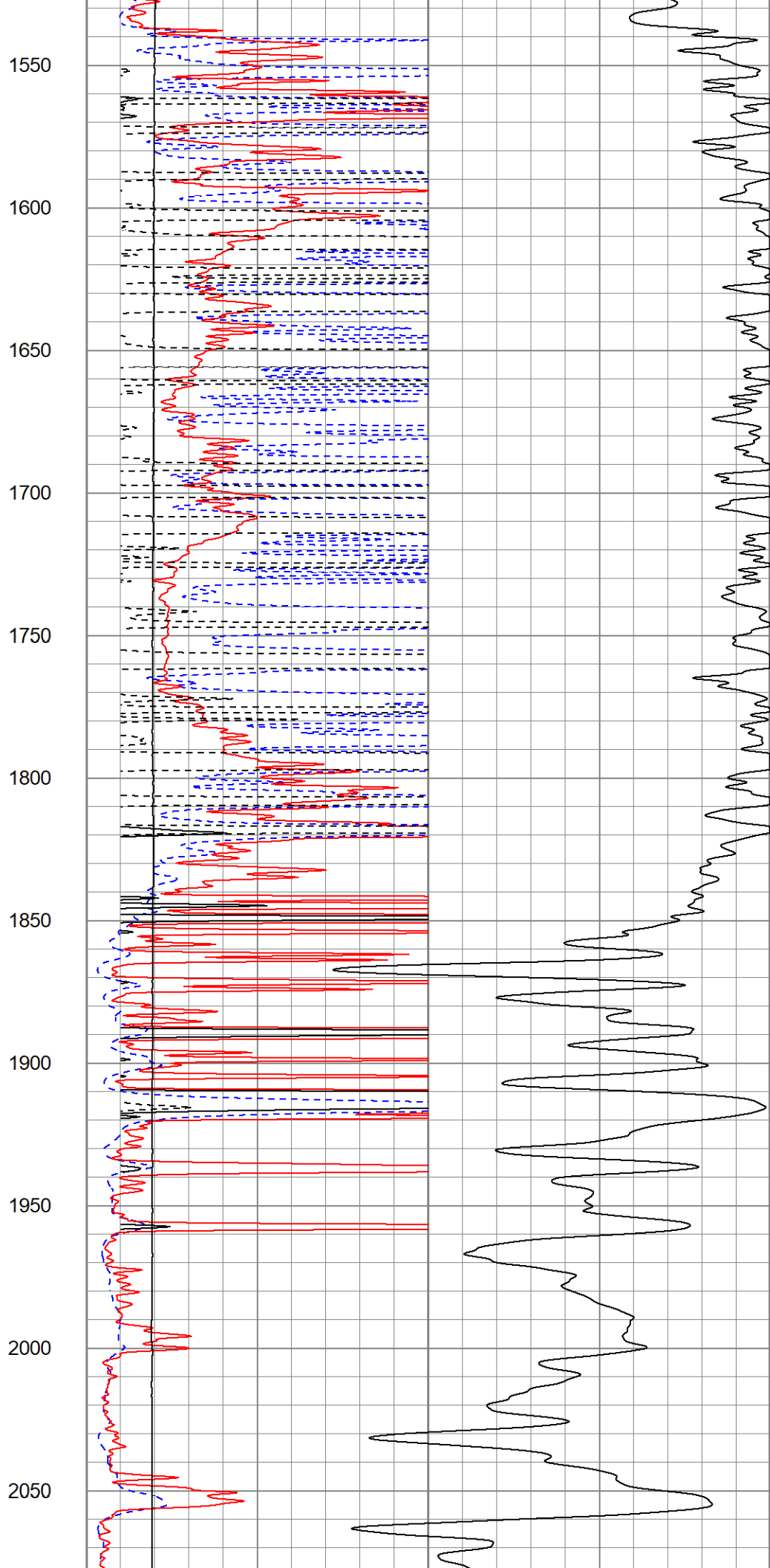
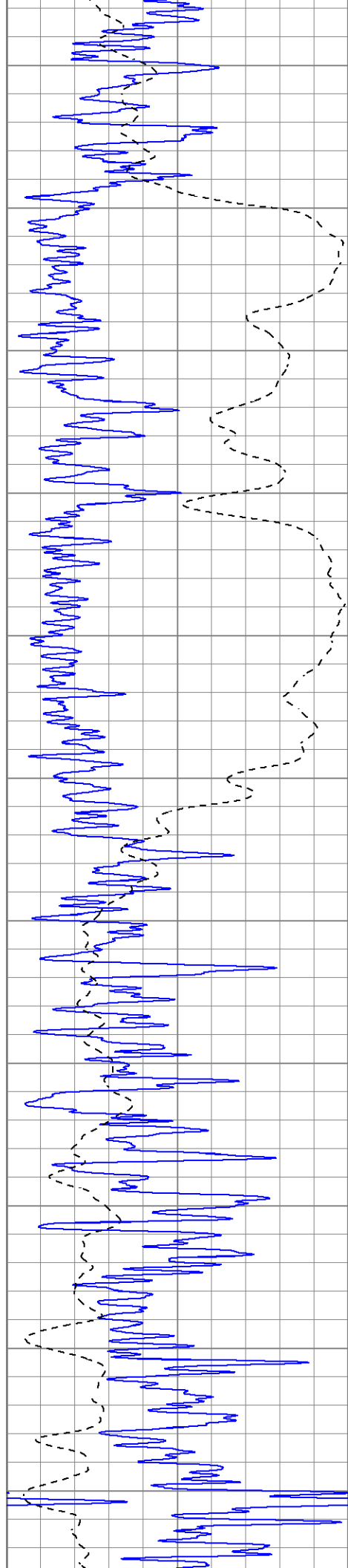


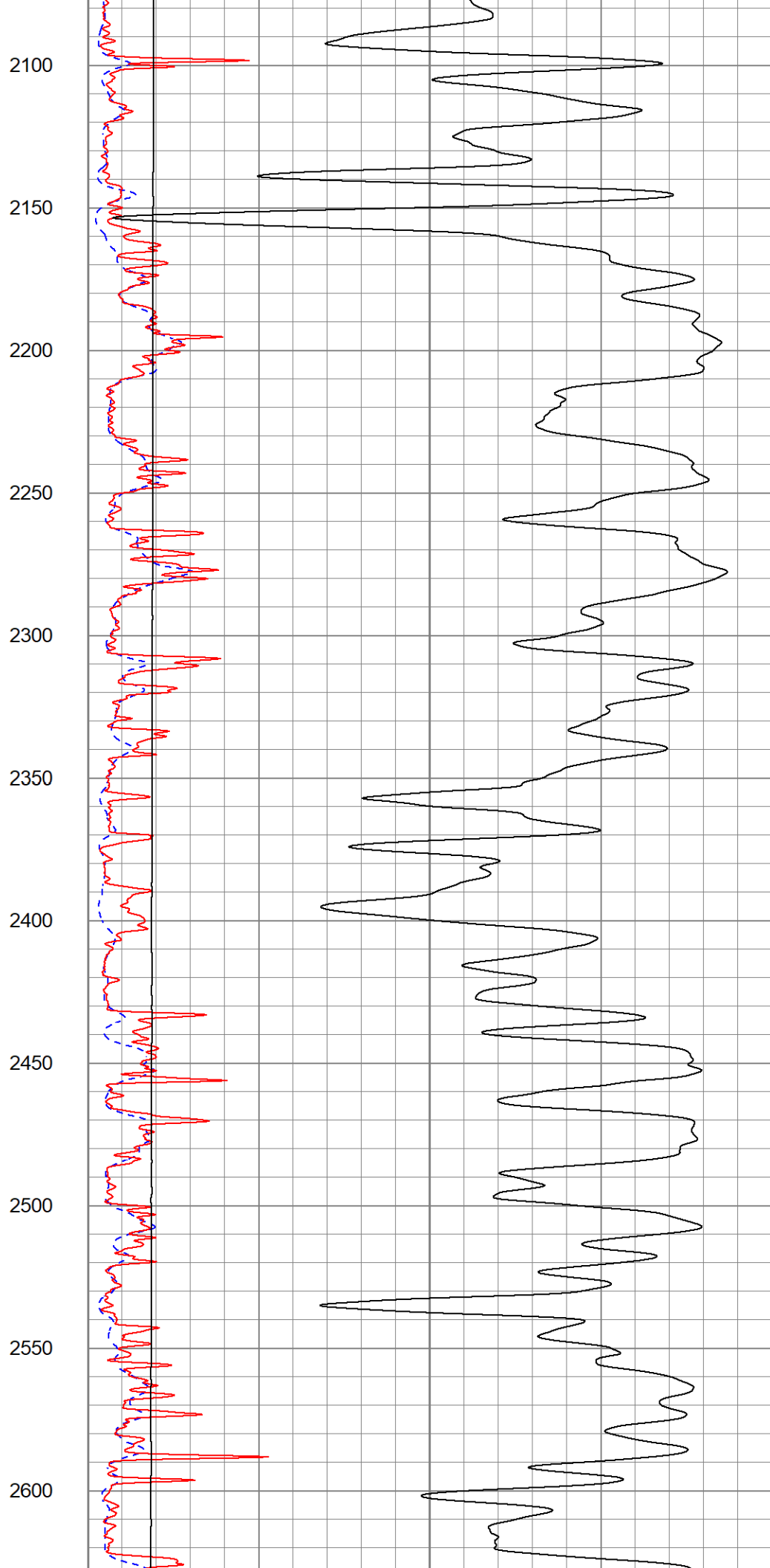
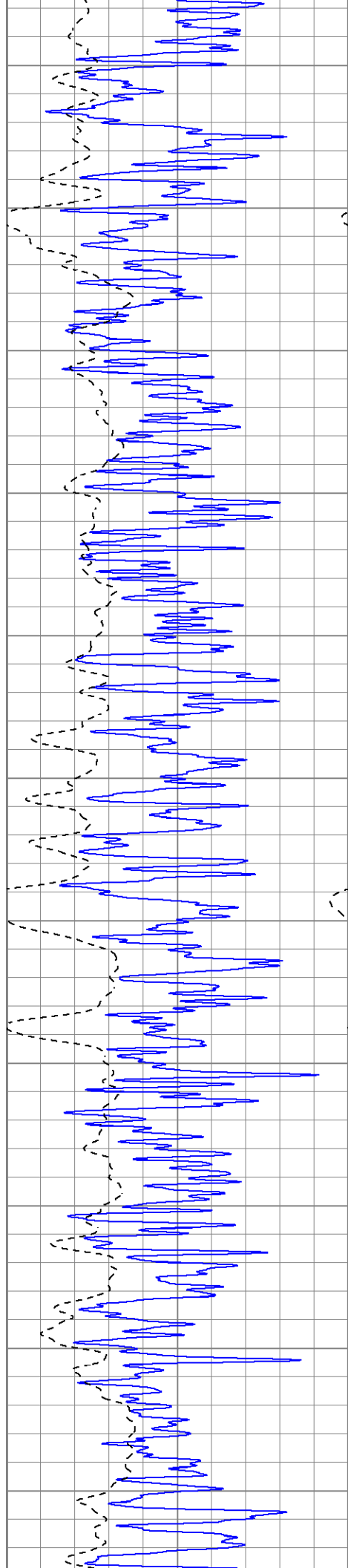


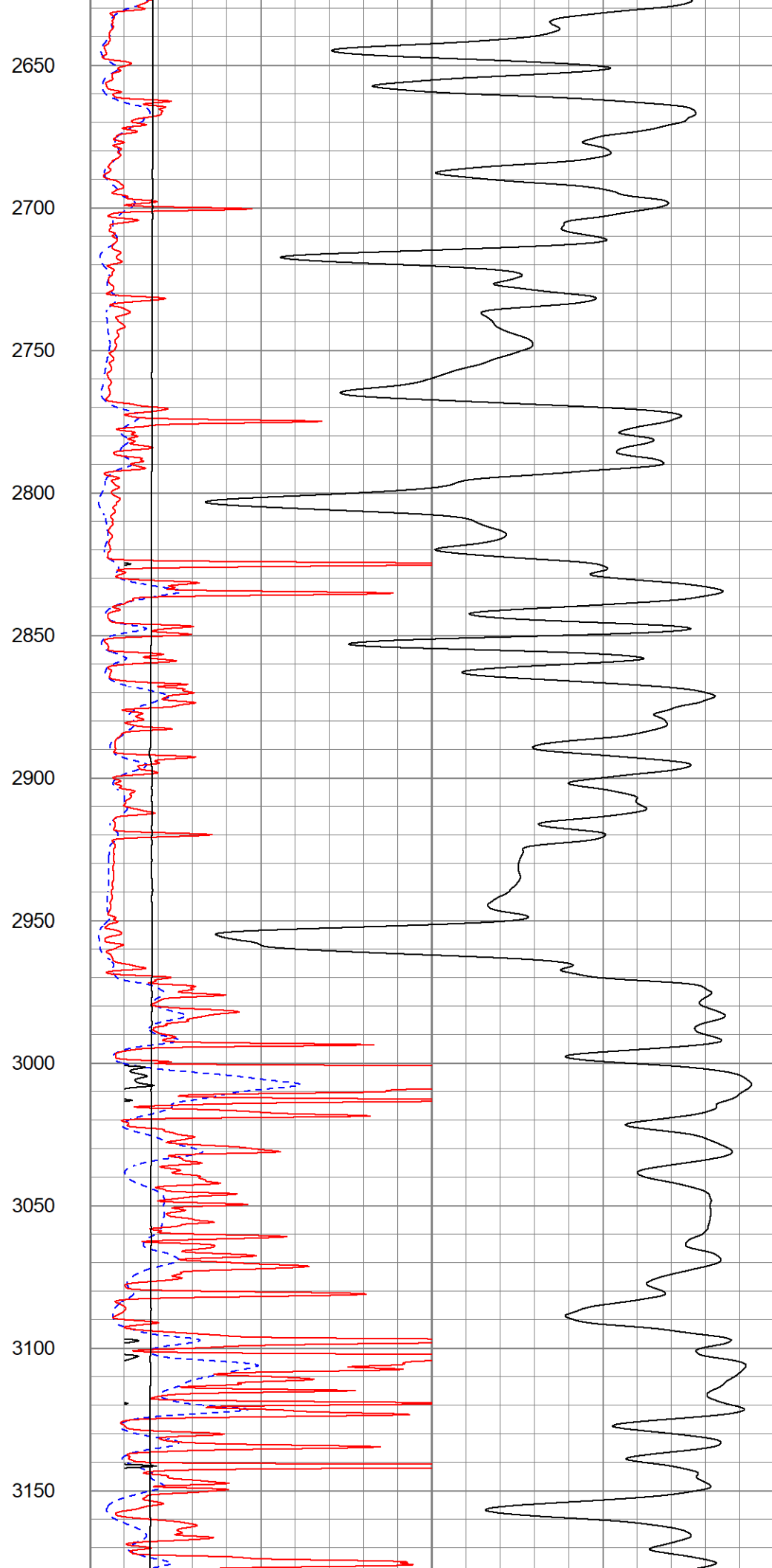
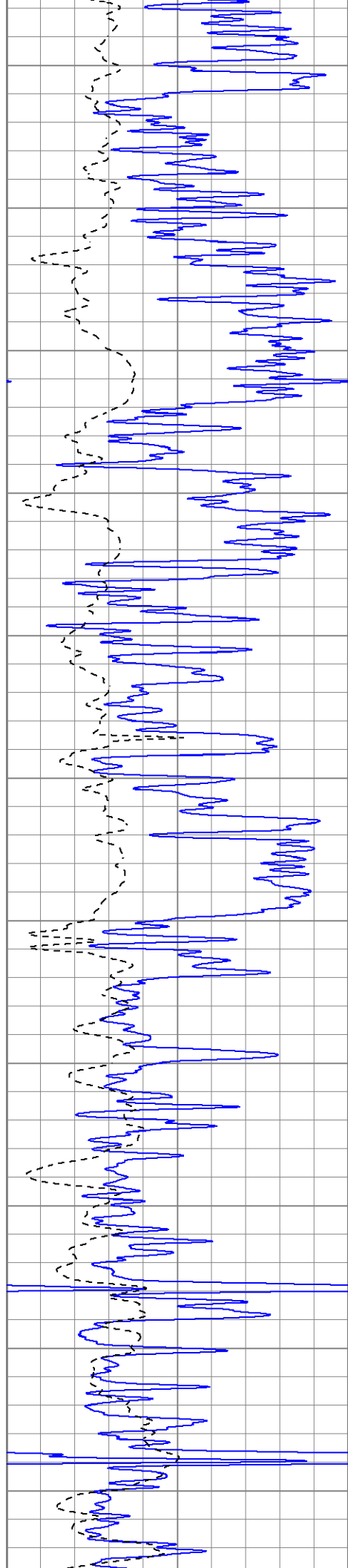


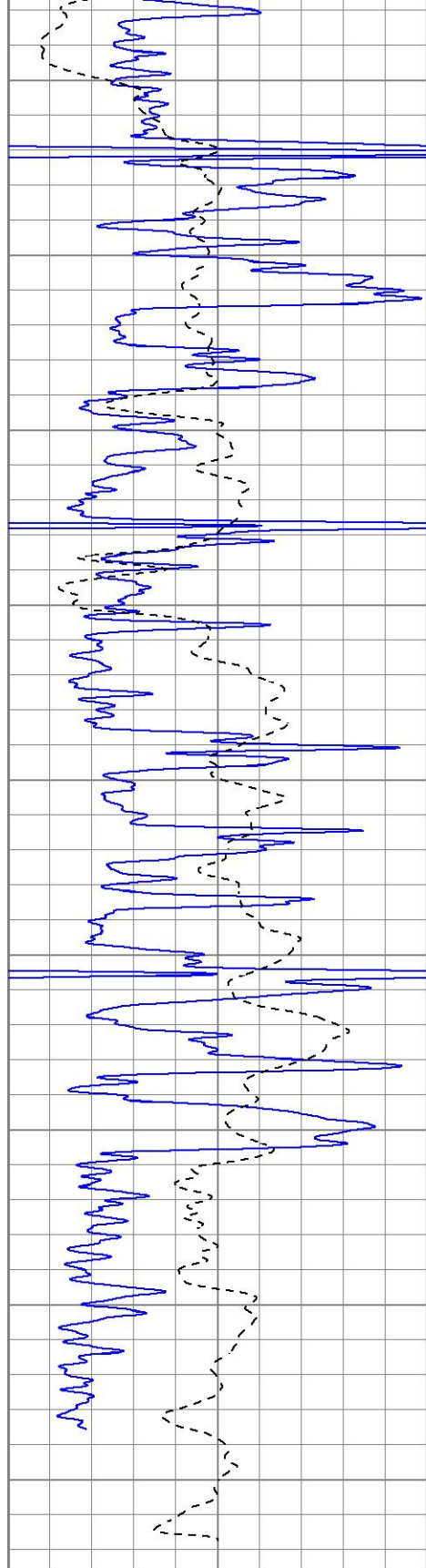
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500











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

3200

3250

3300

3350

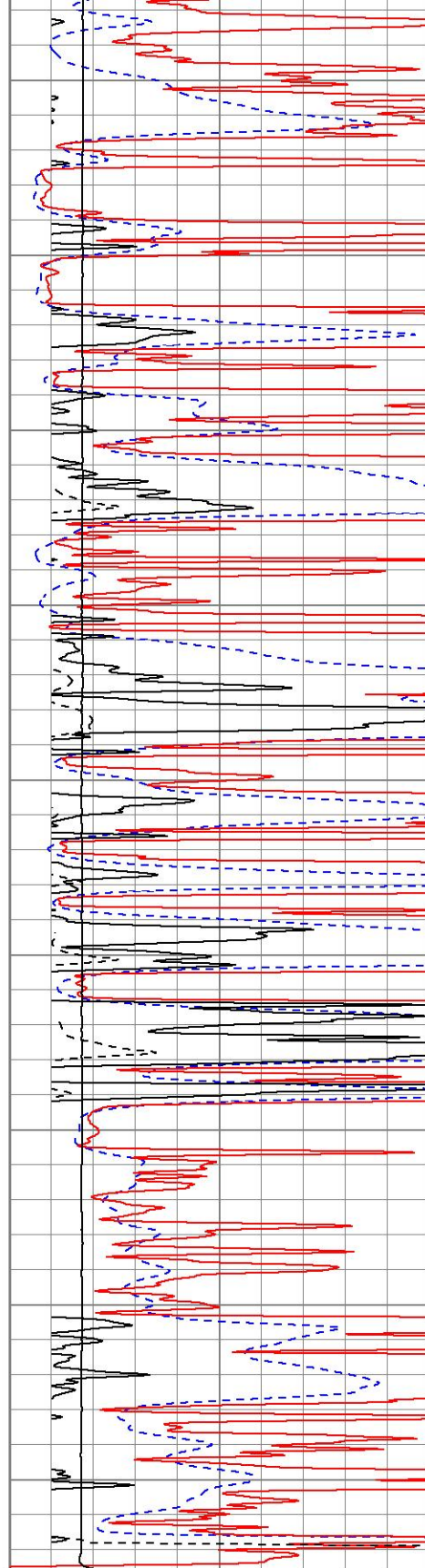
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3450

3500

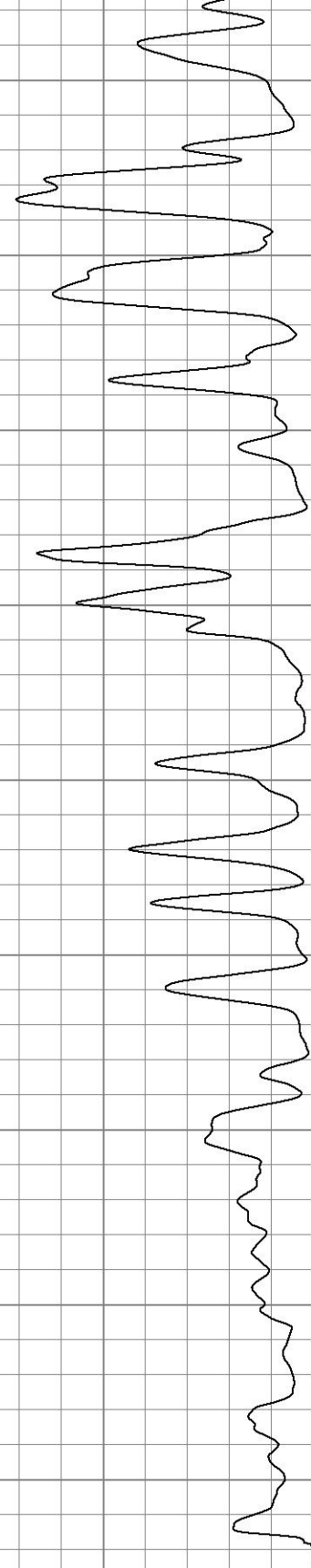
3550

3600



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

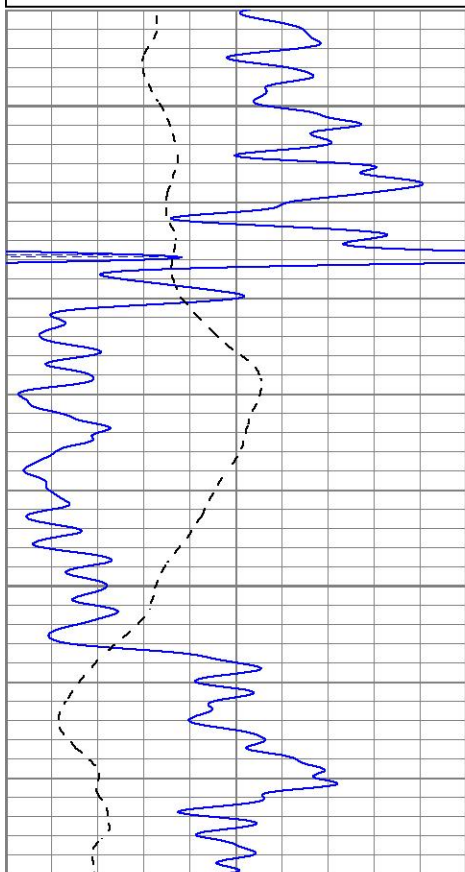




MAIN PASS

Database File bbraun#4oh.db
Dataset Pathname pass3.1
Presentation Format kdil
Dataset Creation Thu Oct 12 10:40:48 2023
Charted by Depth in Feet scaled 1:240

0	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



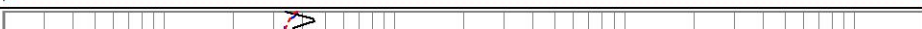
MAIN PASS

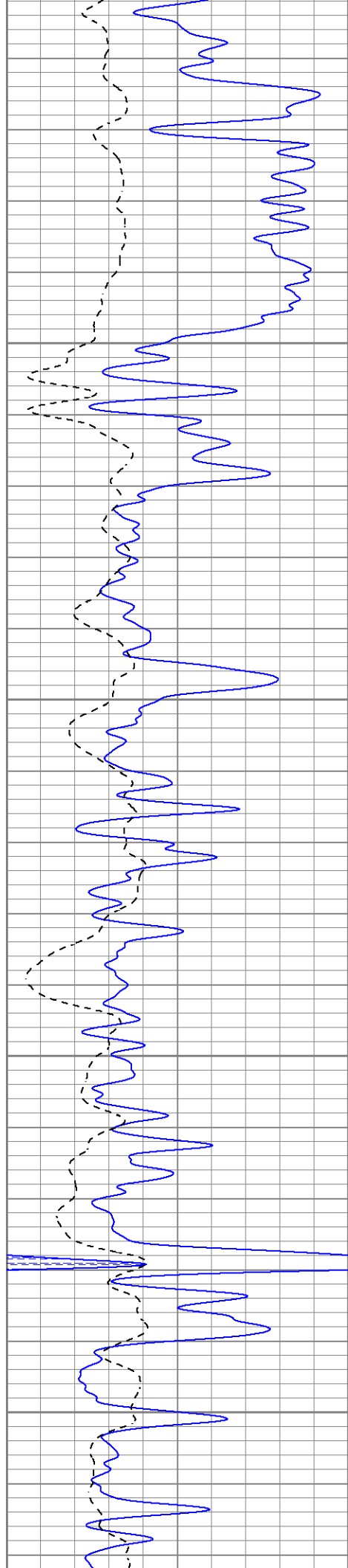
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Dataset Pathname pass3.1
Presentation Format kdil
Dataset Creation Thu Oct 12 10:40:48 2023
Charted by Depth in Feet scaled 1:240

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



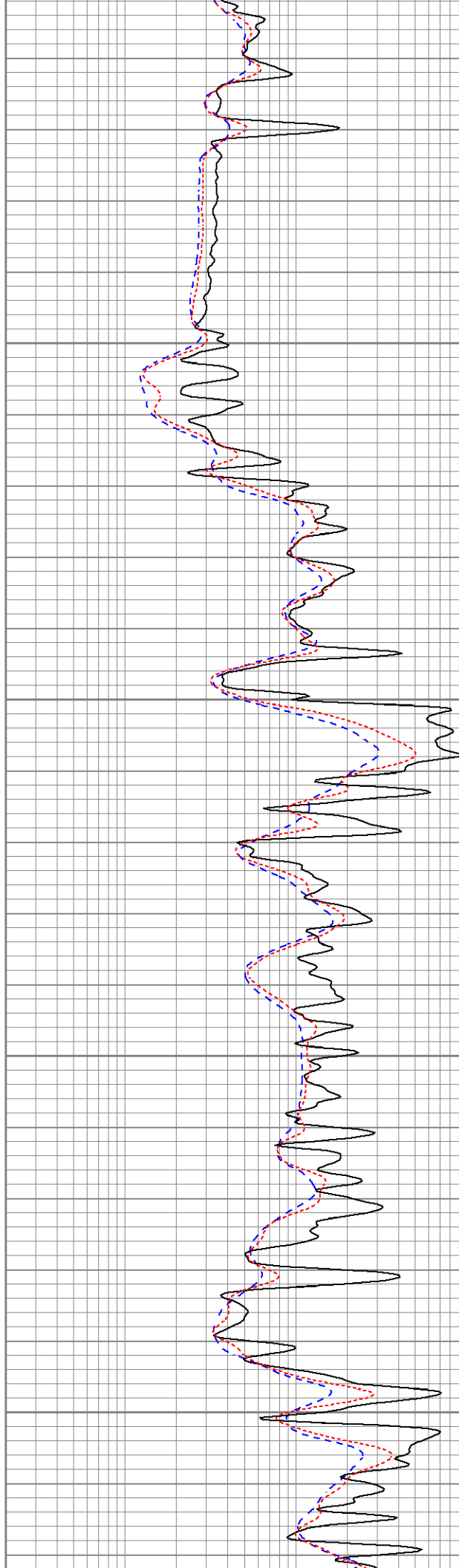


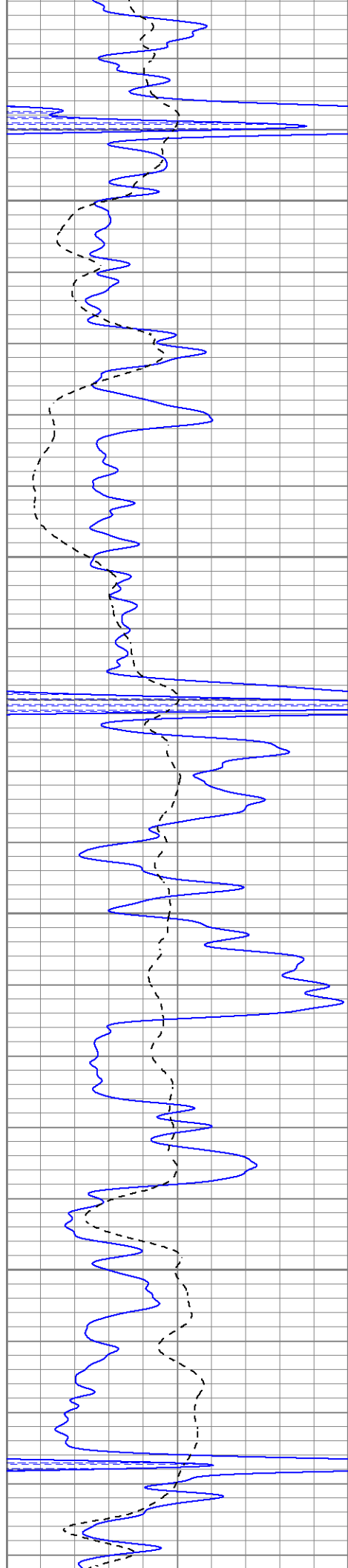
2950

3000

3050

3100



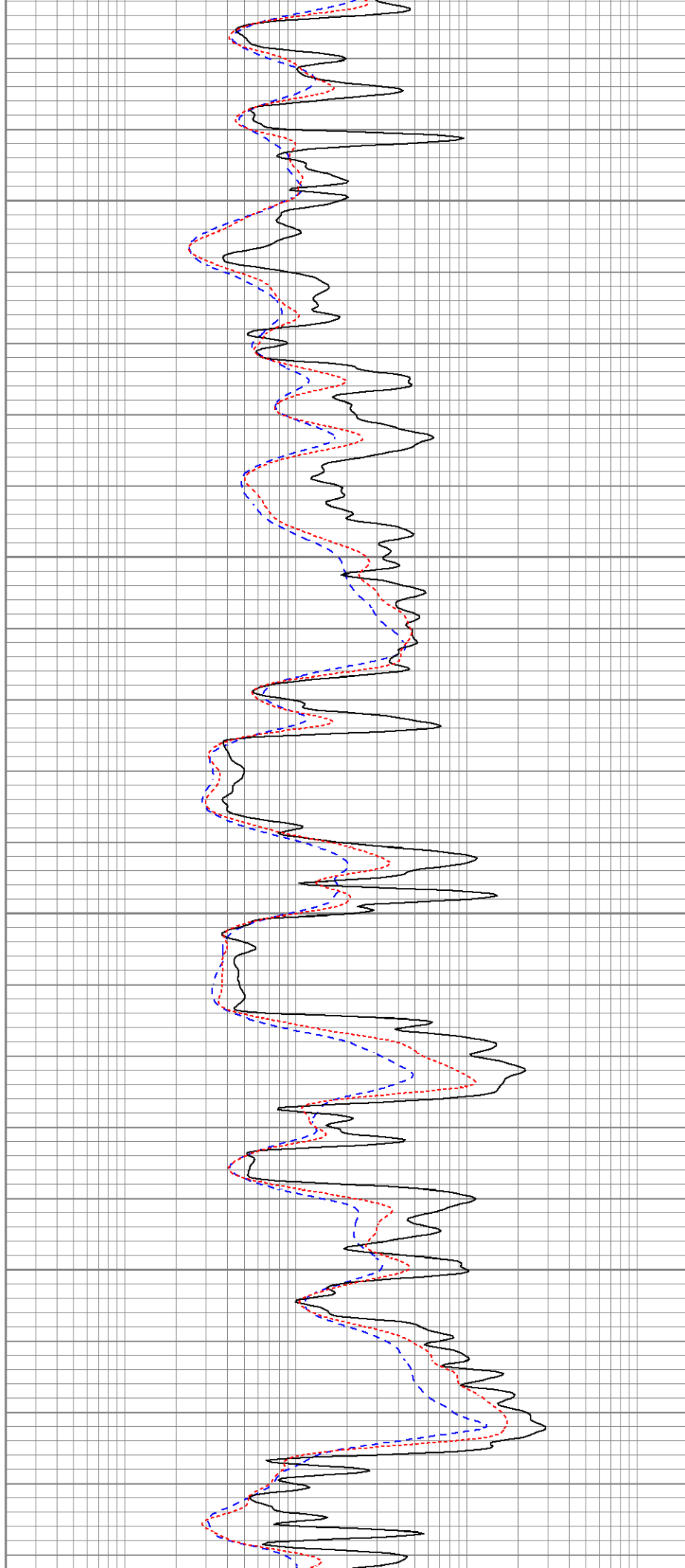


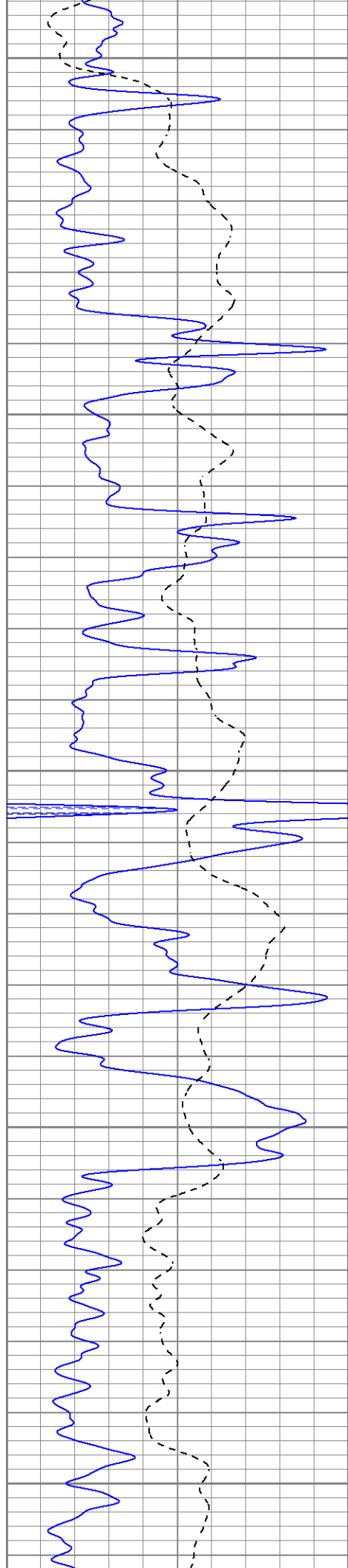
3150

3200

3250

3300





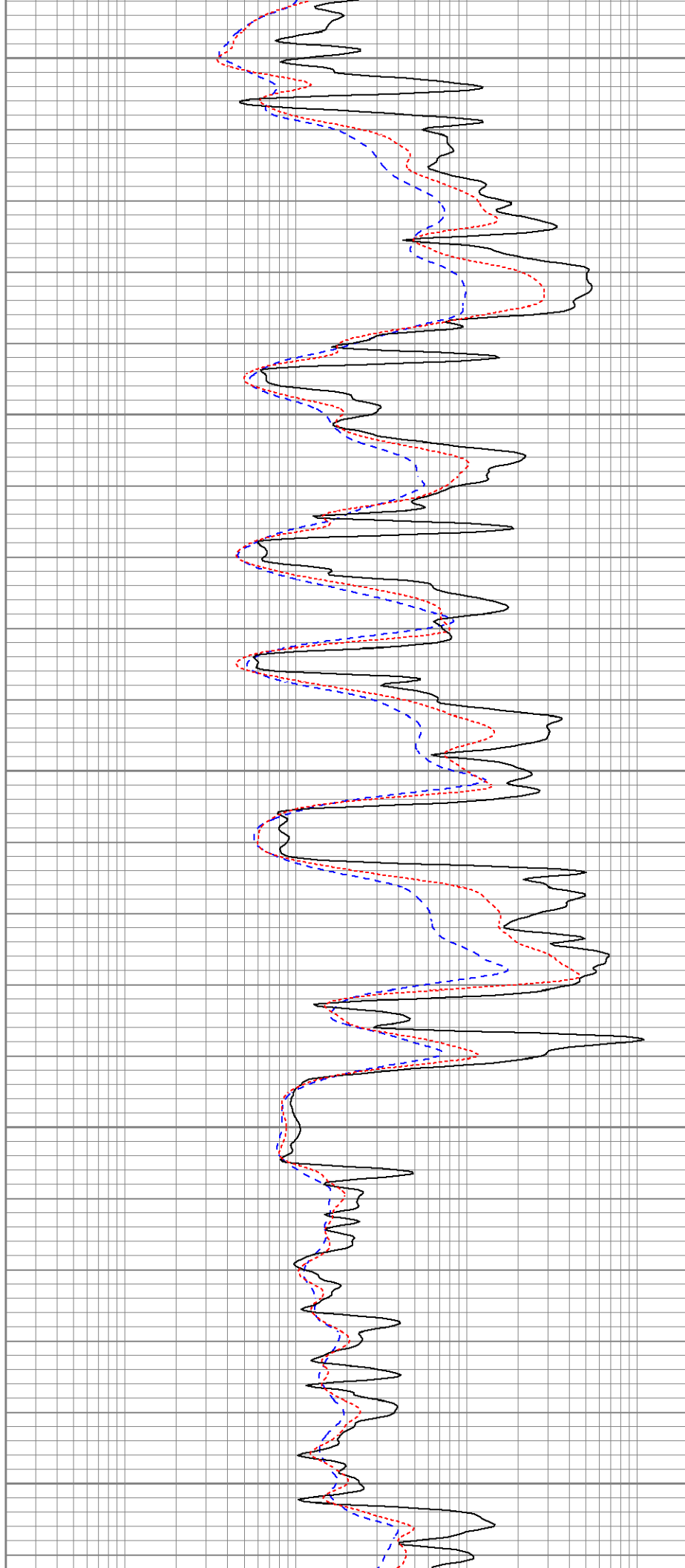
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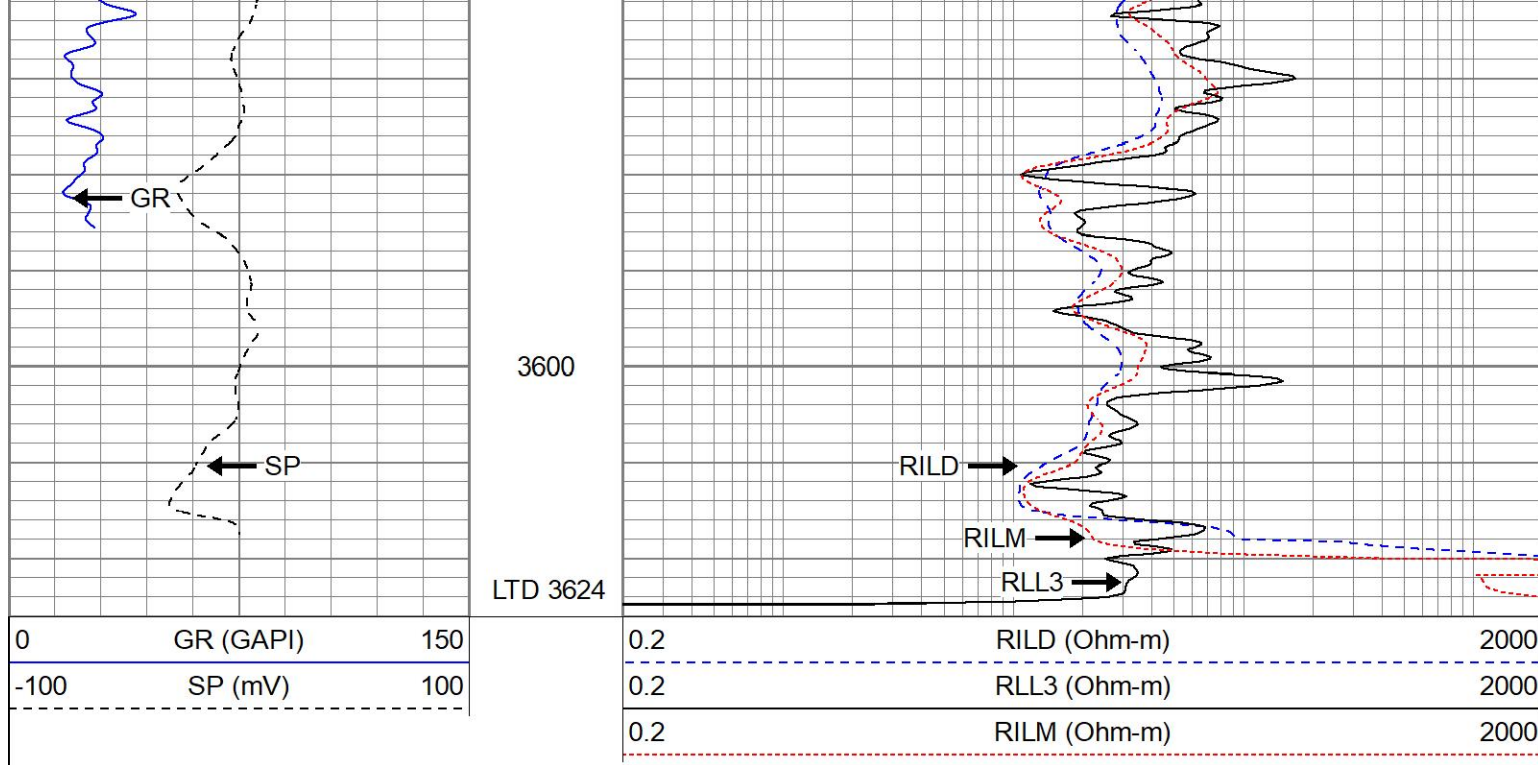
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3450

3500

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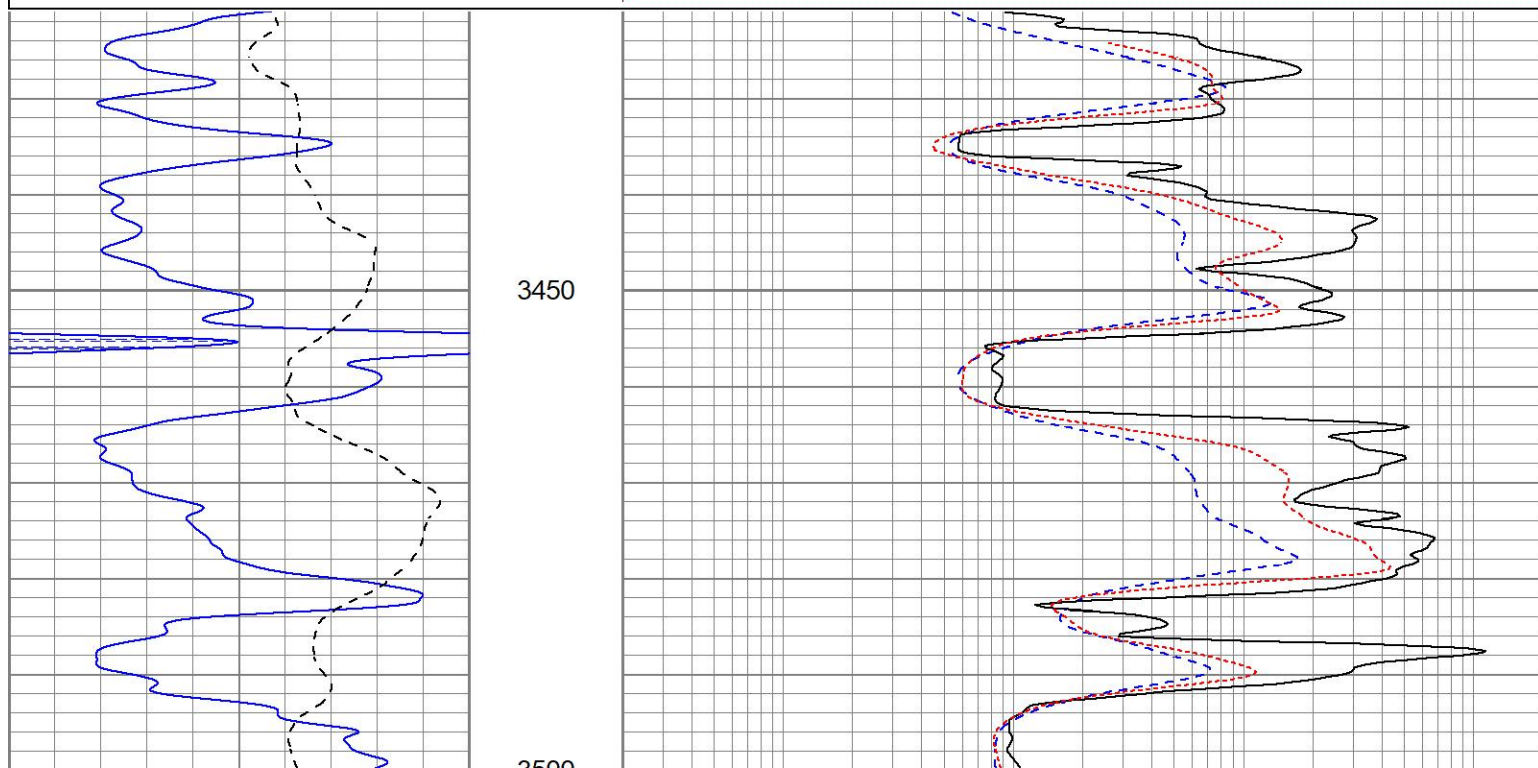


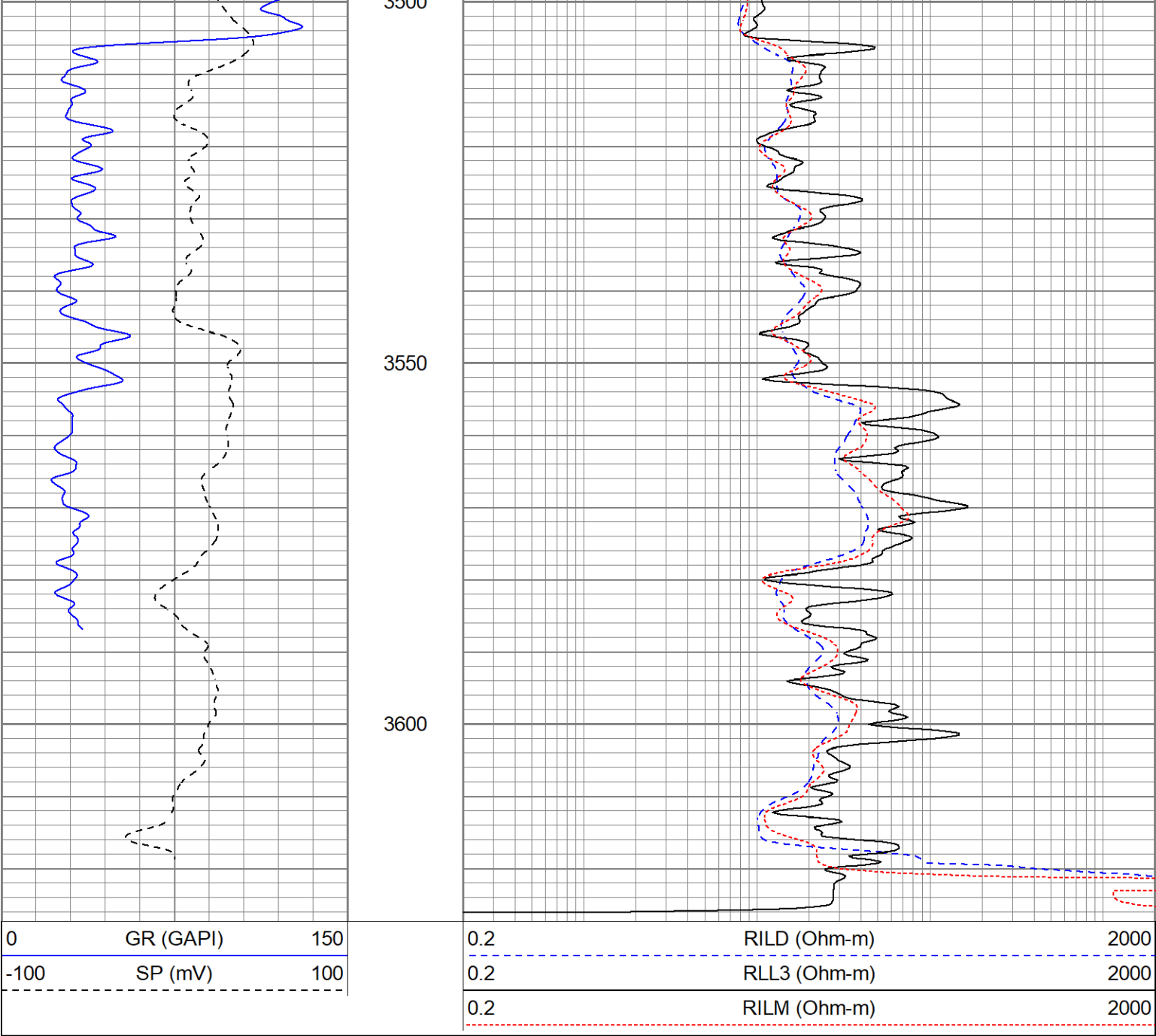


REPEAT SECTION

Database File bbraun#4oh.db
Dataset Pathname pass2.1
Presentation Format kdil
Dataset Creation Thu Oct 12 10:45:13 2023
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





Calibration Report								
Database File	bbraun#4oh.db							
Dataset Pathname	pass2.1							
Dataset Creation	Thu Oct 12 10:45:13 2023							
Dual Induction Calibration Report								
Serial-Model:			1842-ADM					
Surface Cal Performed:			Mon Sep 20 22:00:42 2021					
Downhole Cal Performed:			Thu Sep 14 13:06:48 2023					
After Survey Verification Performed:			Thu Sep 14 13:02:29 2023					
Surface Calibration								
		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

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	-0.210	349.810	mmho/m	-0.343	349.810	mmho/m	1.000	-0.133
Medium	6.952	396.760	mmho/m	-0.226	399.745	mmho/m	1.026	-7.360
Shallow	2.495	0.026	V	500.000	2.000	Ohm-m	201.711	-3.319

After Survey Verification

Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	32.030	5.643	mmho/m	1.000	-0.133
Medium	0.000	0.000	mmho/m	6.952	396.760	mmho/m	1.026	-7.360
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Admyr Lithodensity Calibration Report

Serial-Model:	1C-C
Source:	Blue2
Master Calibration Performed:	Tue Aug 30 10:20:37 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.670	g/cc	6362.49	3546.71	cps
Aluminium	2.640	g/cc	1733.54	2362.69	cps
Aluminium+Sleeve	2.617	g/cc	1657.01	2197.69	cps
Spine Angle = 72.65			Density/Spine Ratio = 0.712		
	PE		NLITH	NHARD	
Magnesium	2.000	barn	2520.00	1620.00	cps
Aluminium	3.000	barn	1926.00	1699.00	cps
Aluminium+Sleeve	5.000	barn	915.00	1230.00	cps
M = 0.370			B = -0.079	R = 0.999	
	Size		Reading		
Small Ring	8.00	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					gee

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps