



DUAL INDUCTION LOG

Company	BLACK ROCK RESOURCES, LLC.		
Well	POLIFKA #13-1		
Field	UNNAMED		
County	GOVE	State	KS
Location:	API # : 15 063 22364		Other Services CDNL ML
SEC 13 TWP 13S RGE 27W		994' FSL & 1661' FEL	
Permanent Datum	Ground Level	Elevation	2510
Log Measured From	KB 10' AGL		
Drilling Measured From	KB		Elevation K.B. 2520 D.F. 2518 G.L. 2510
Date	4/8/22		
Run Number	One		
Depth Driller	4430		
Depth Logger	4430		
Bottom Logged Interval	4428		
Top Log Interval	00		
Casing Driller	8 5/8" @ 271'		
Casing Logger	271		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/55		
pH / Fluid Loss	11.0/7.2		
Source of Sample	Pit		
Rm @ Meas. Temp	2.1@70degf		
Rmf @ Meas. Temp	1.58@70degf		
Rmc @ Meas. Temp	2.52@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.33@110degf		
Time Circulation Stopped	11:00 P.M.		
Time Logger on Bottom	1:30 AM		
Maximum Recorded Temperature	110degf		
Equipment Number	T605		
Location	Hays, KS		
Recorded By	GUS PFANENSTIEL		
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

SOUTH OF QUINTER TO GOVE P RD. WEST 3/4, NORTH INTO.

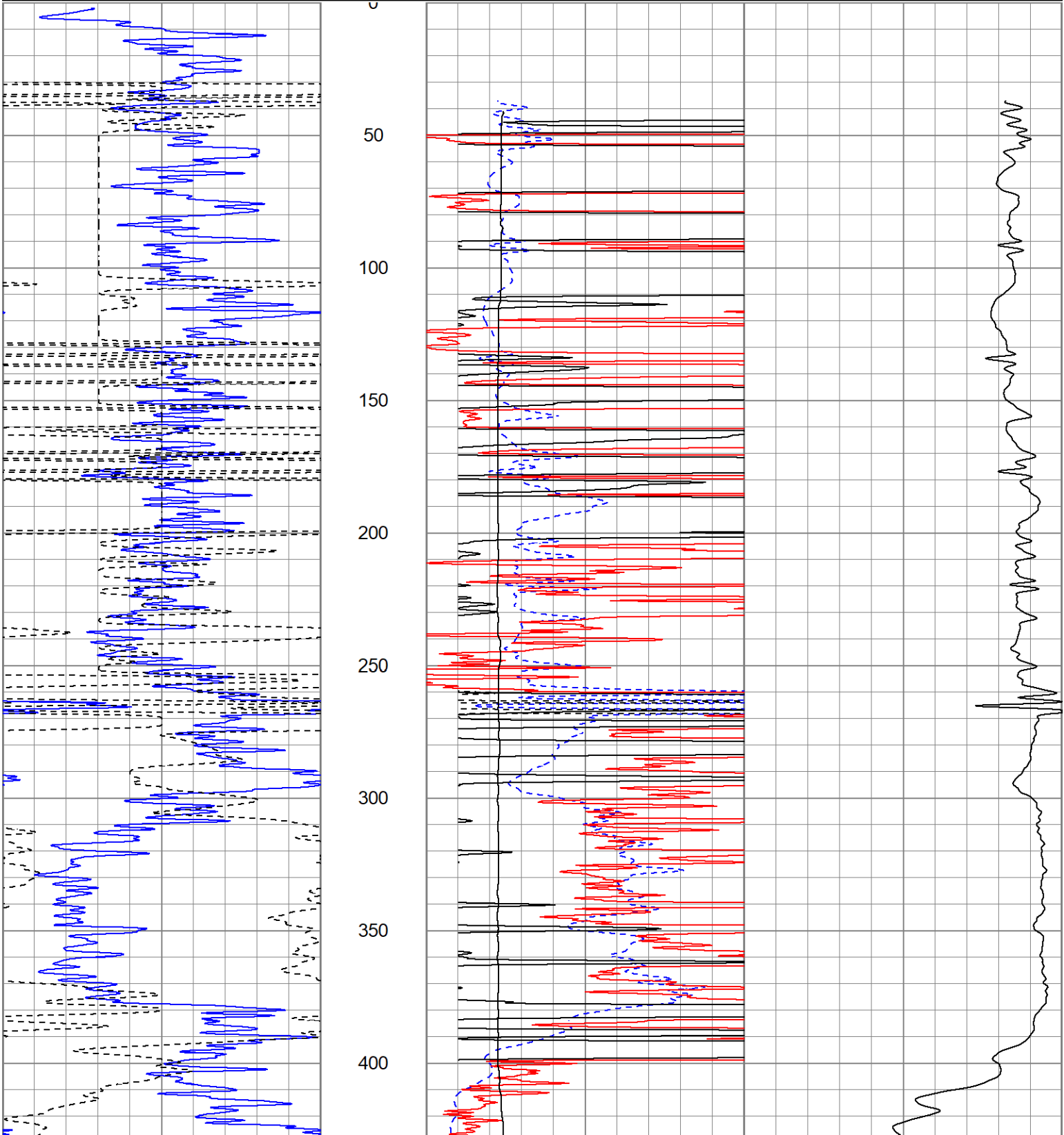
Thank You for using Gemini Wireline LLC
785-625-1182

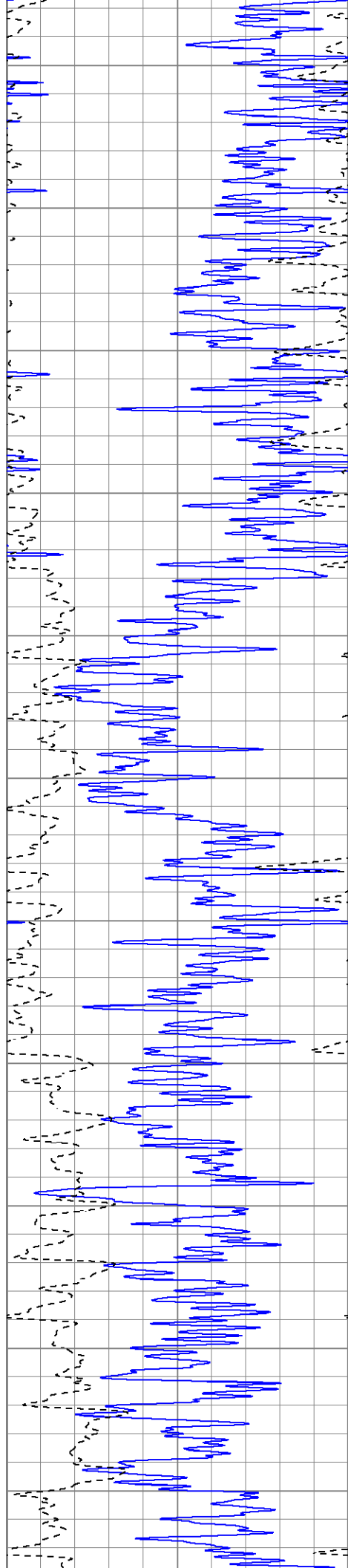


MAIN PASS

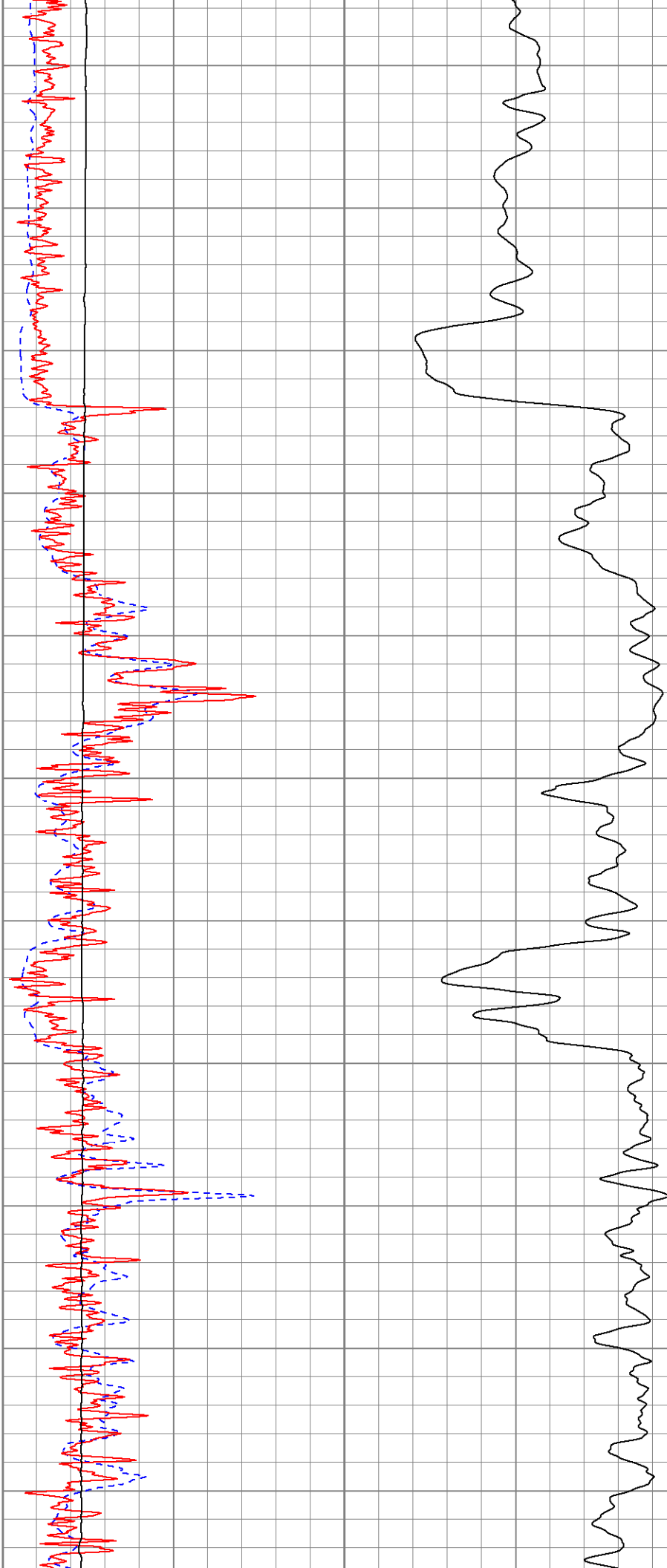
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Dataset Pathname	pass3.1
Presentation Format	kdillinn
Dataset Creation	Fri Apr 08 03:15:10 2022
Charted by	Depth in Feet scaled 1:600

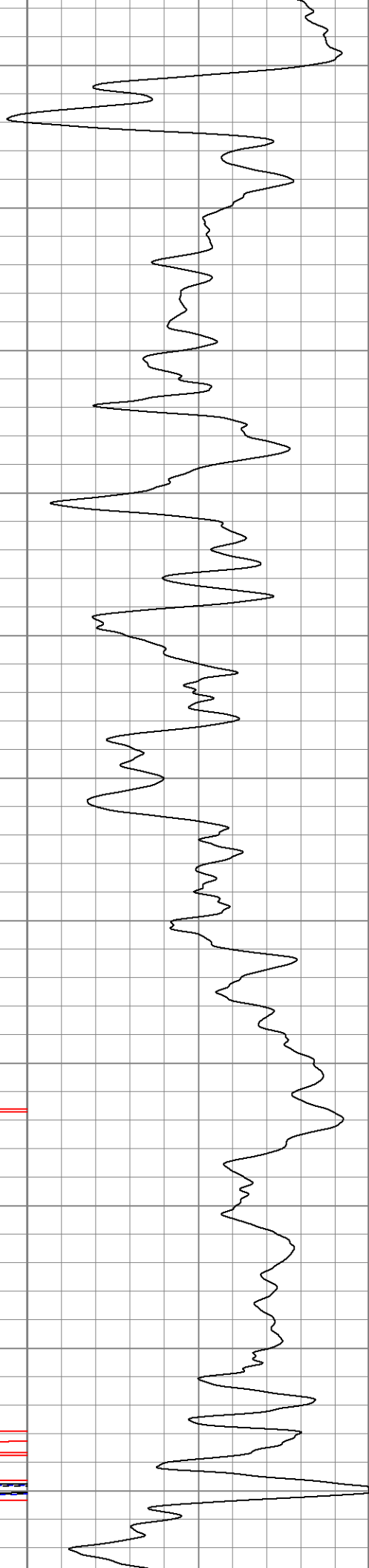
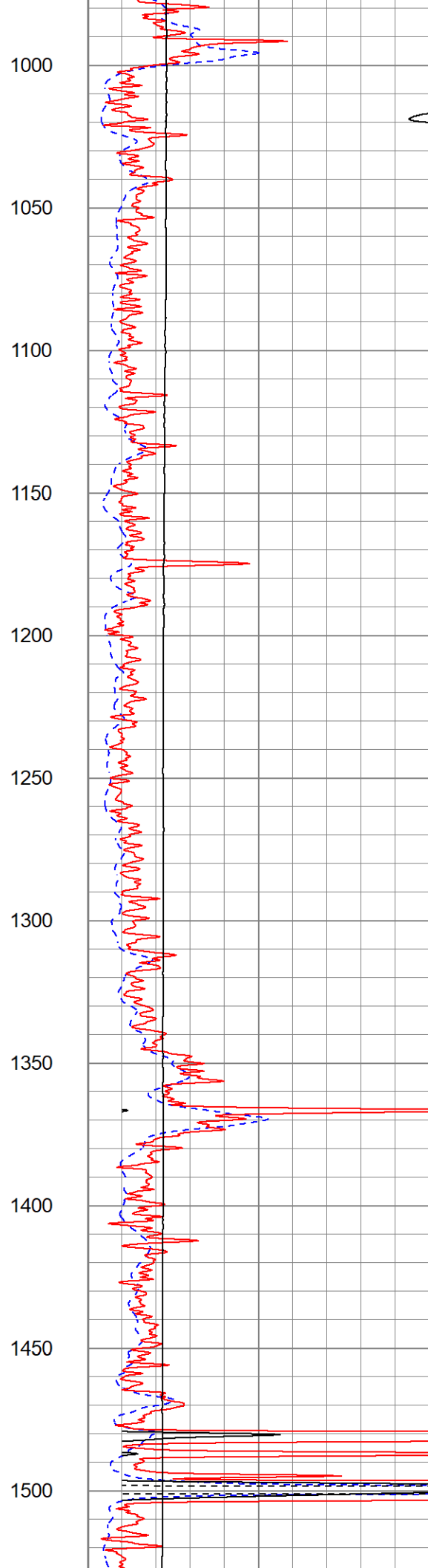
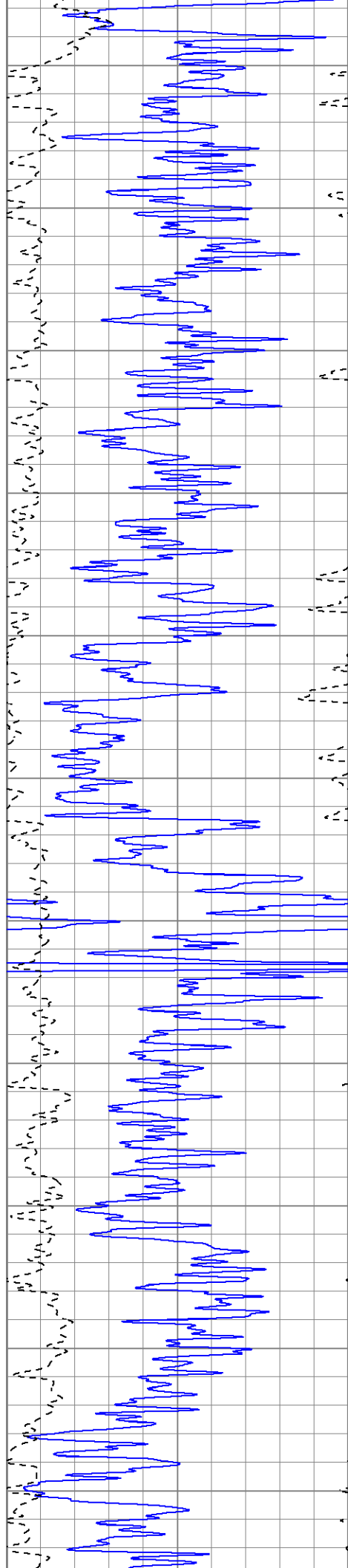
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-100	SP (mV)	100	10000	LTEN (lb)	0
			0	RILD (Ohm-m)	50
			0	RLL3 (Ohm-m)	50
			50	RILD x 10 (Ohm-m)	500
			50	RLL3 x 10 (Ohm-m)	500

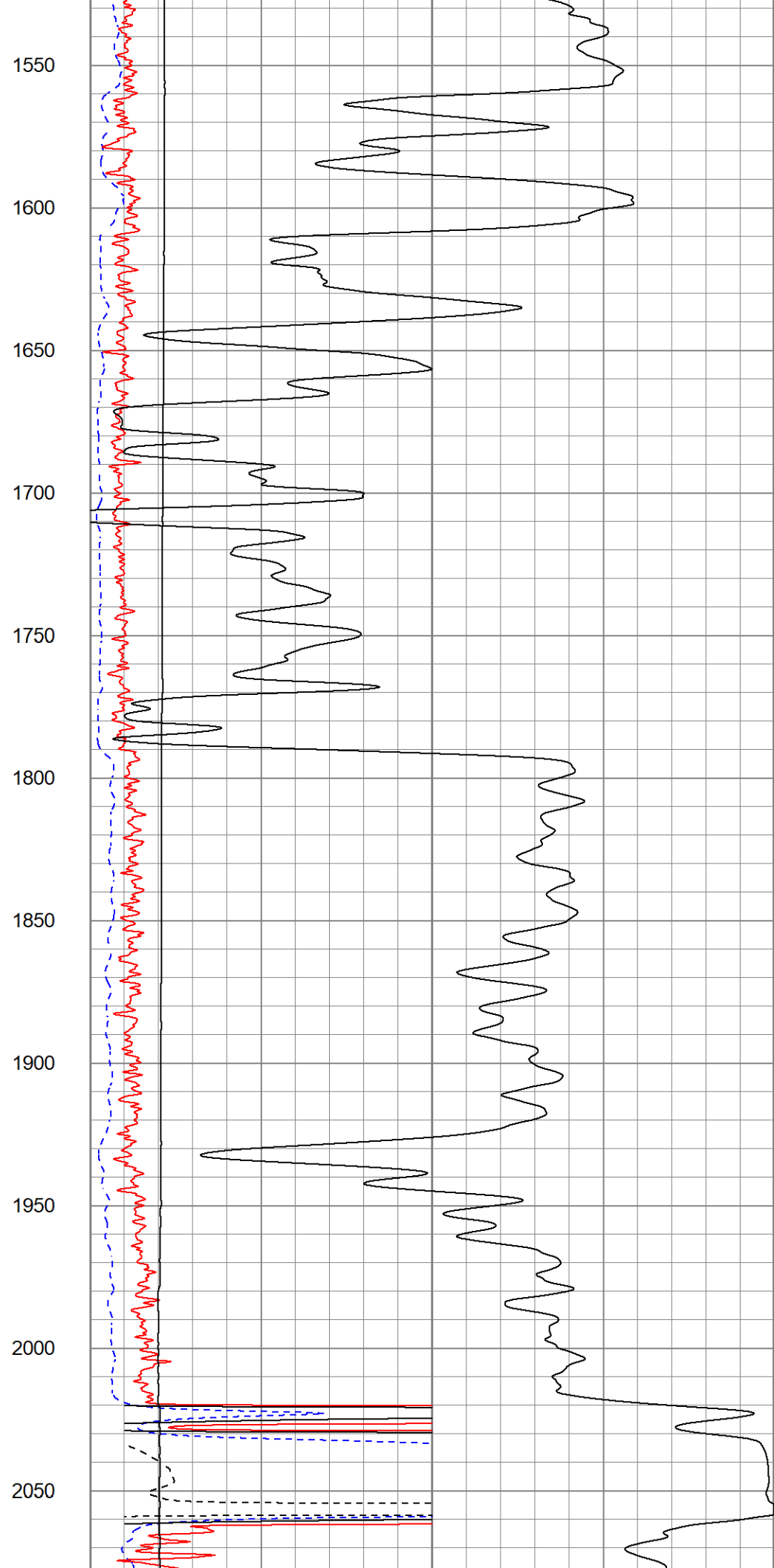
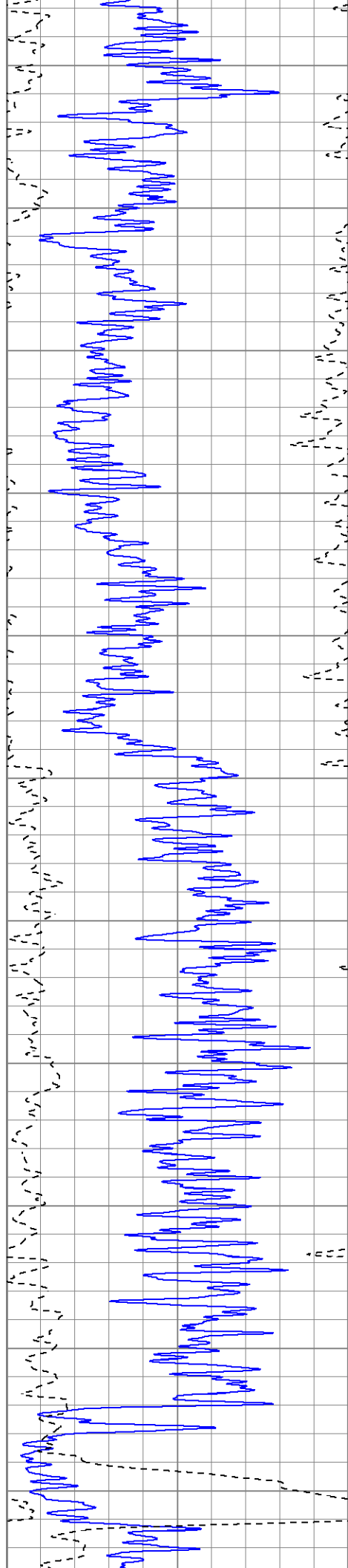


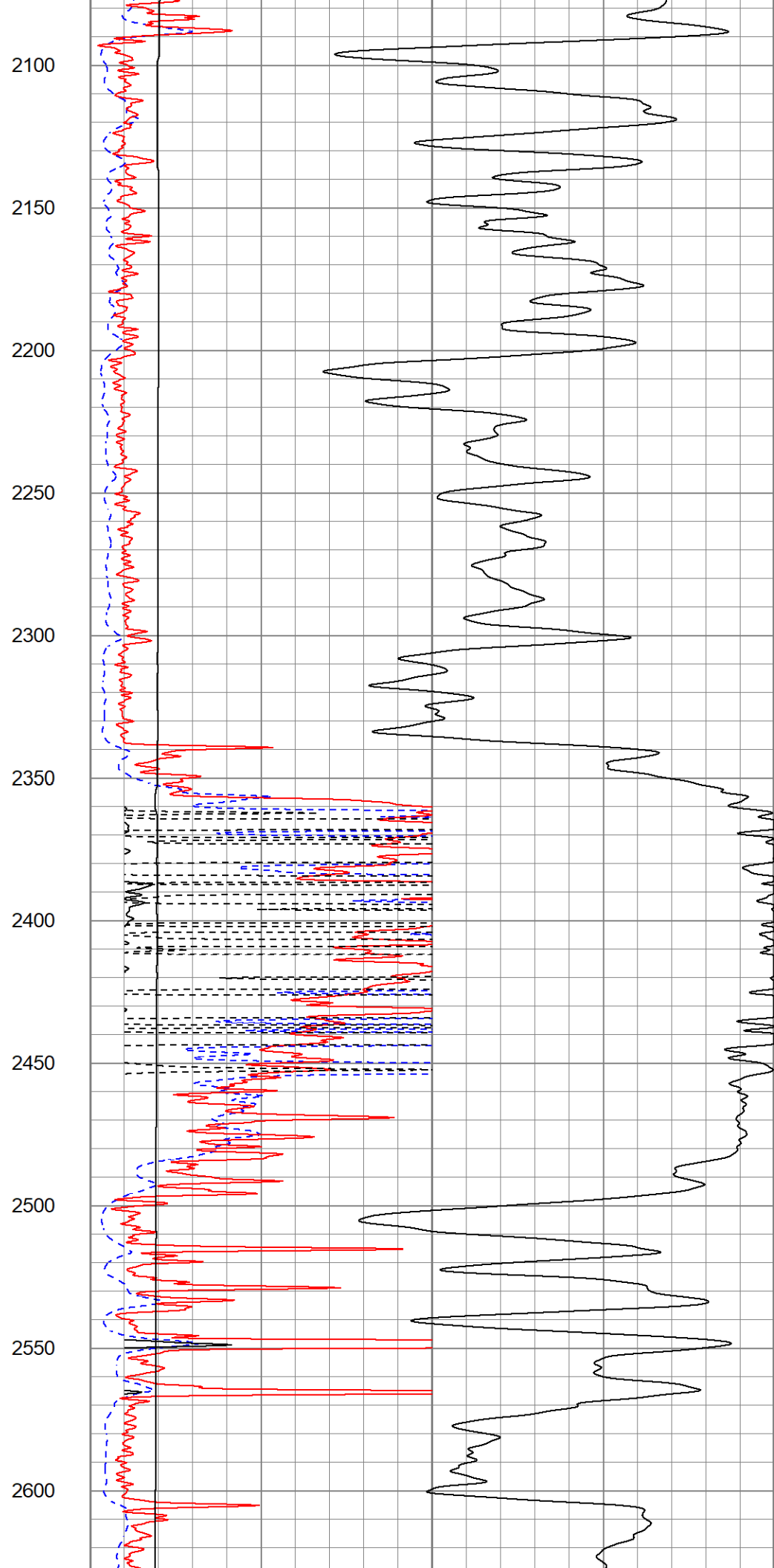
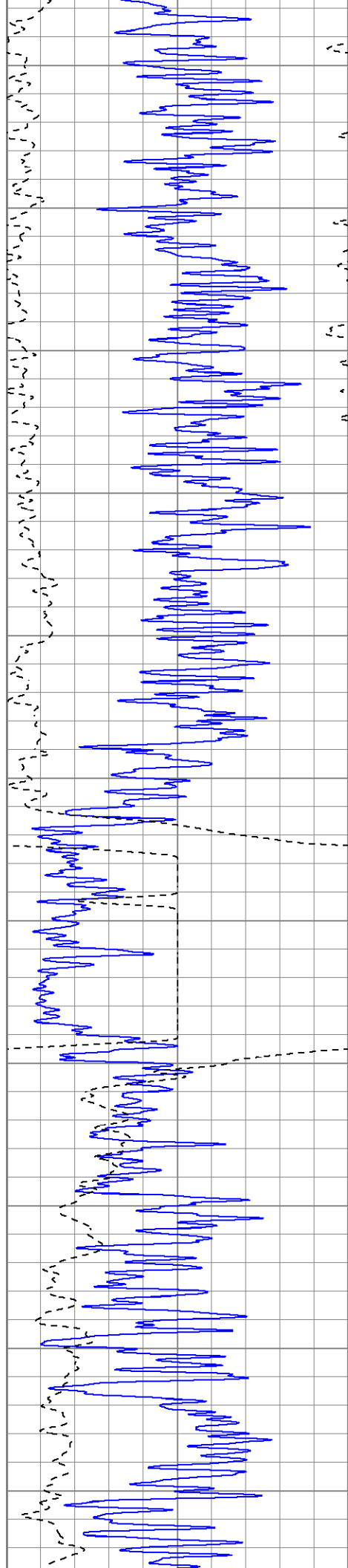


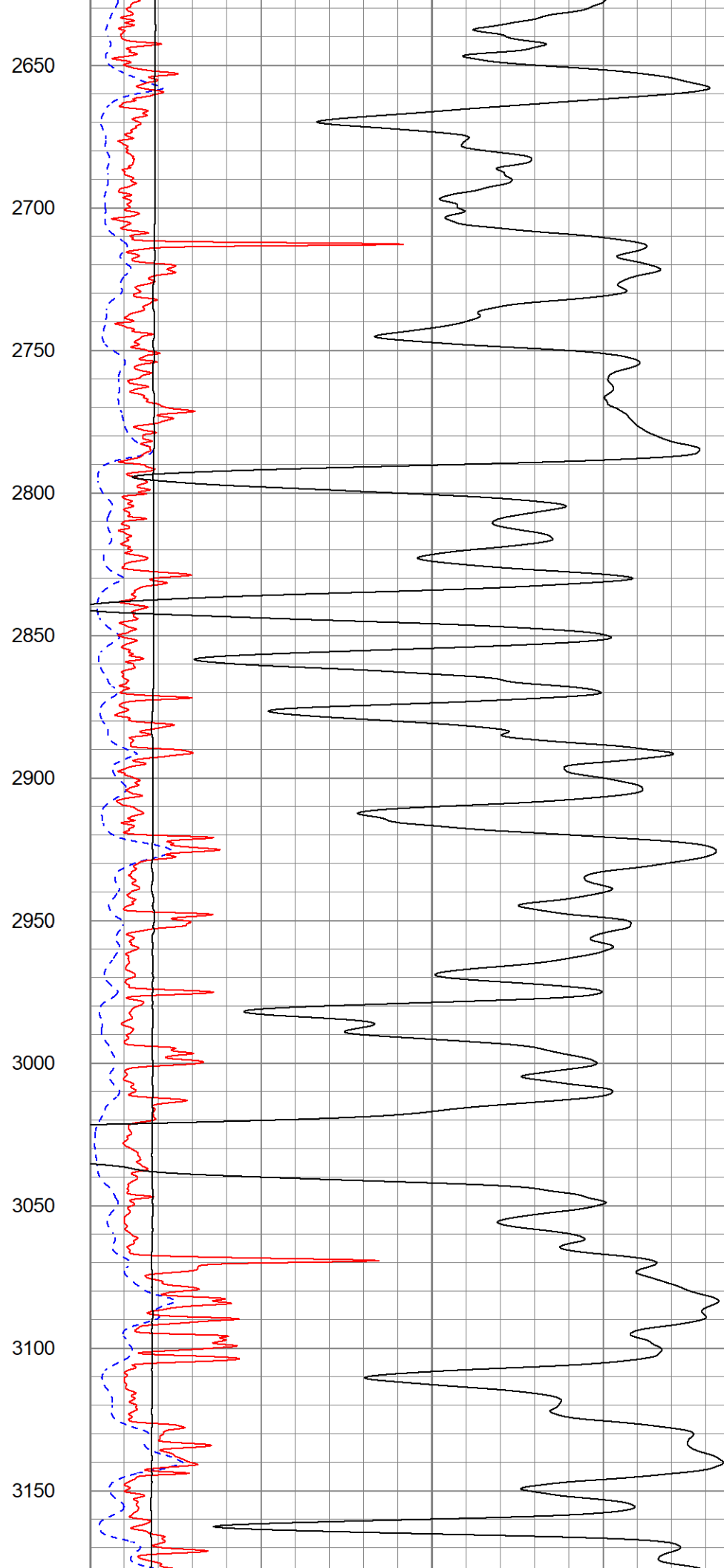
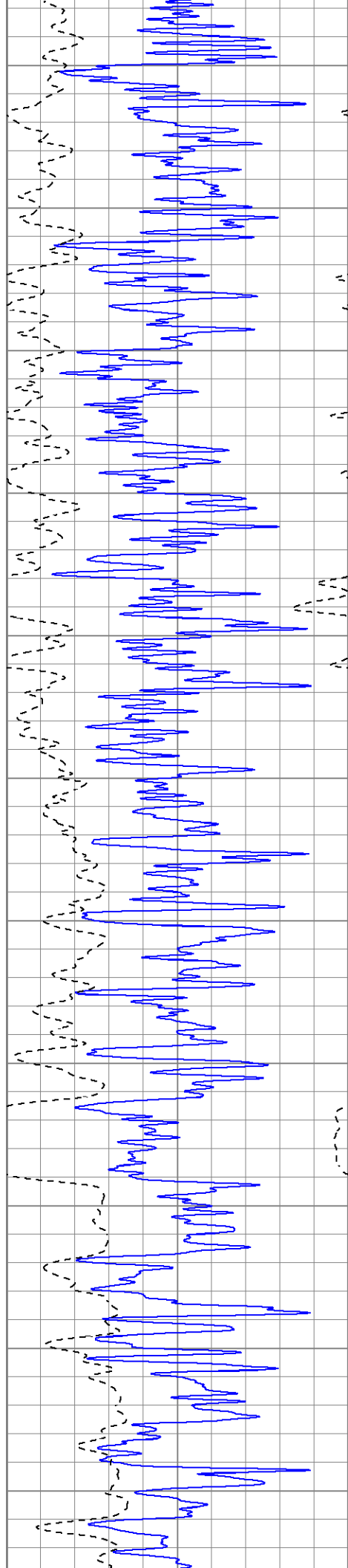
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750
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850
900
950

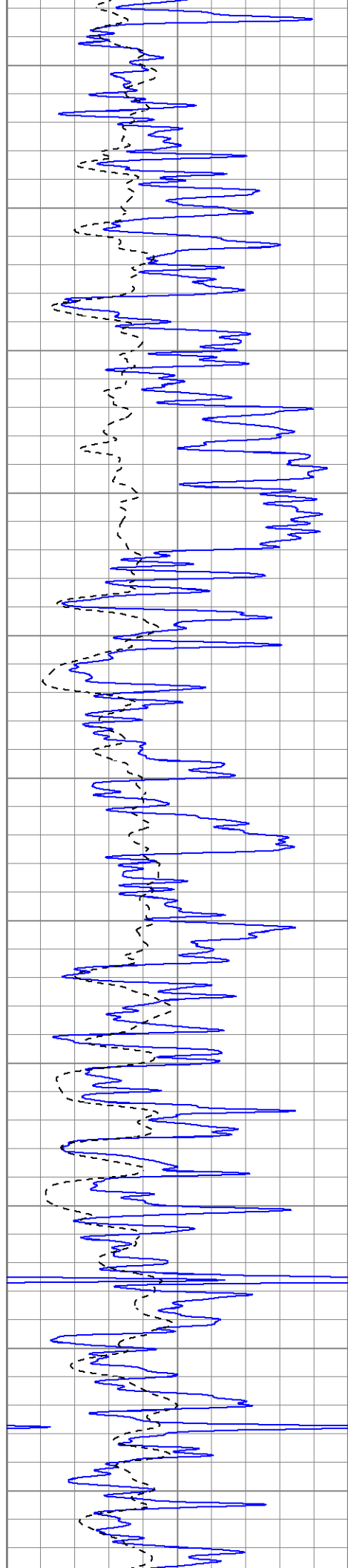




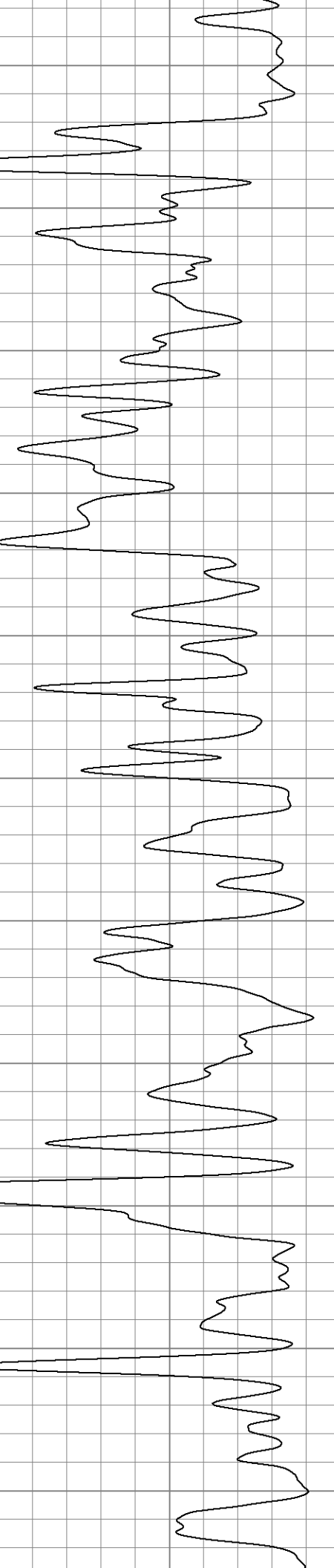
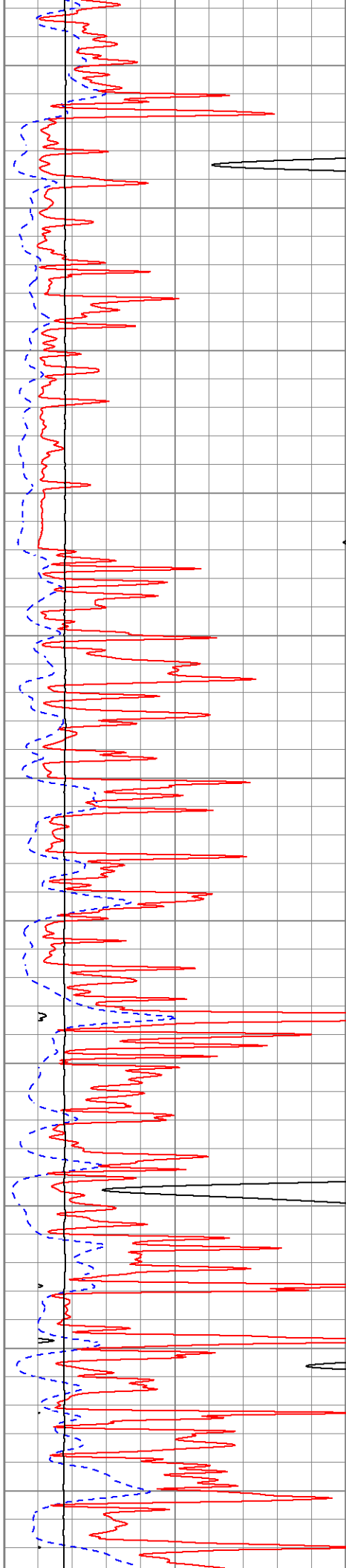


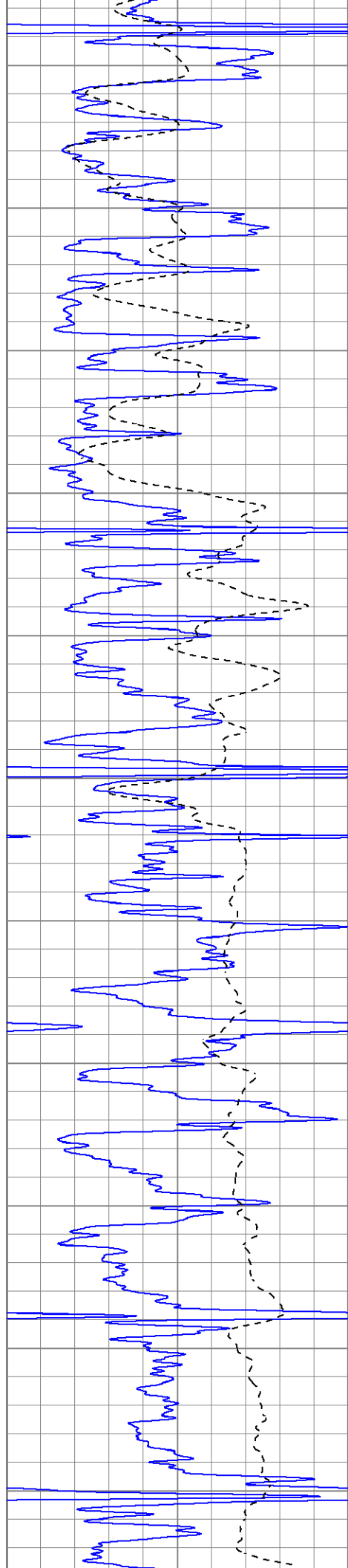






3200
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4000

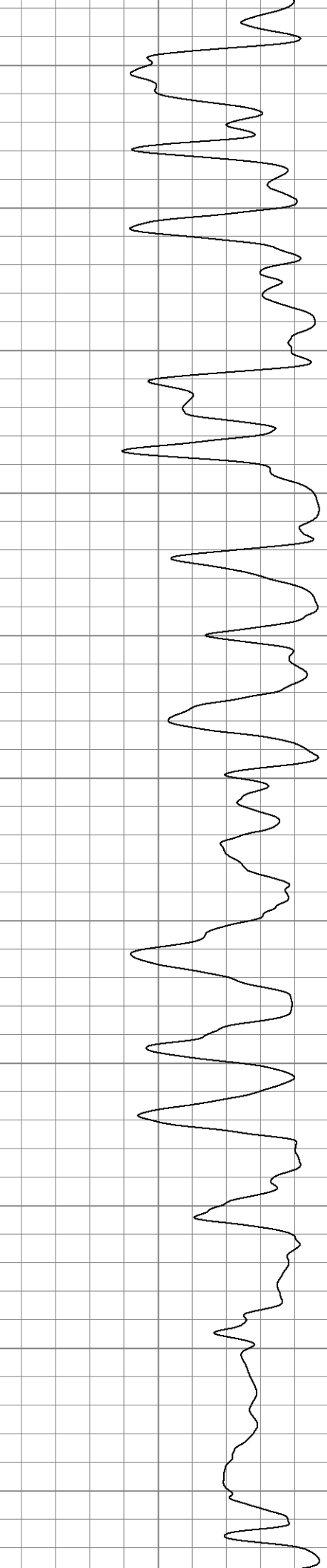
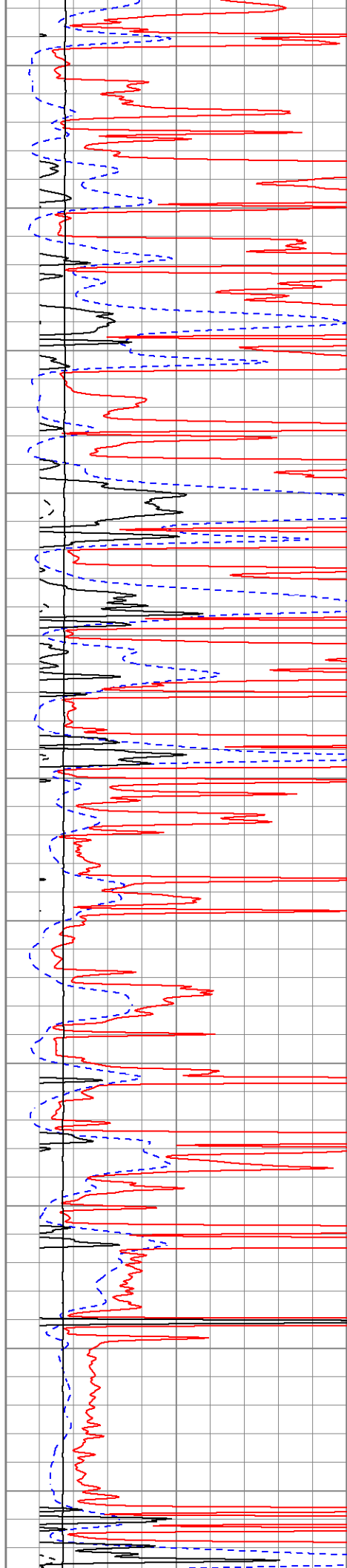
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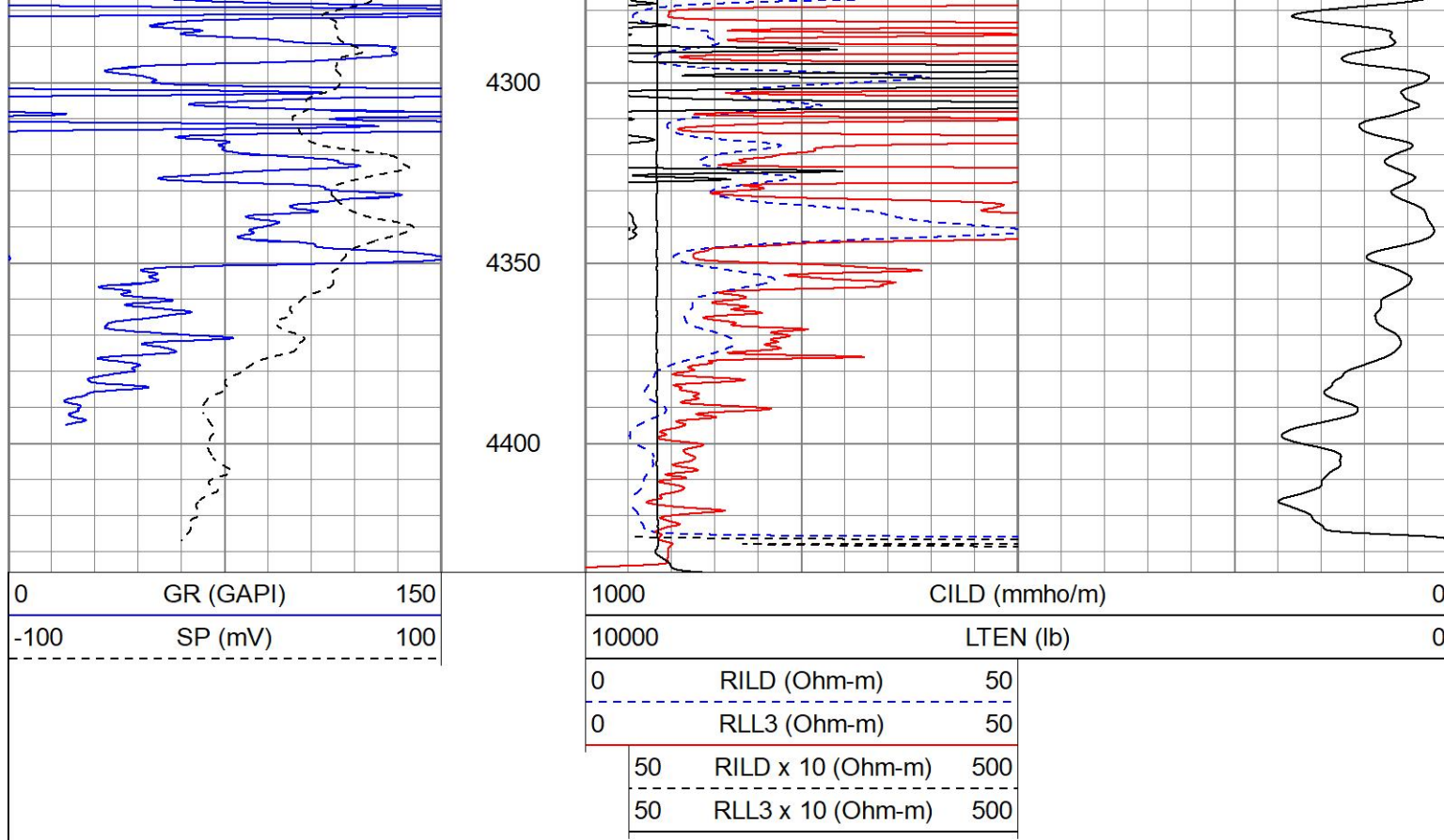
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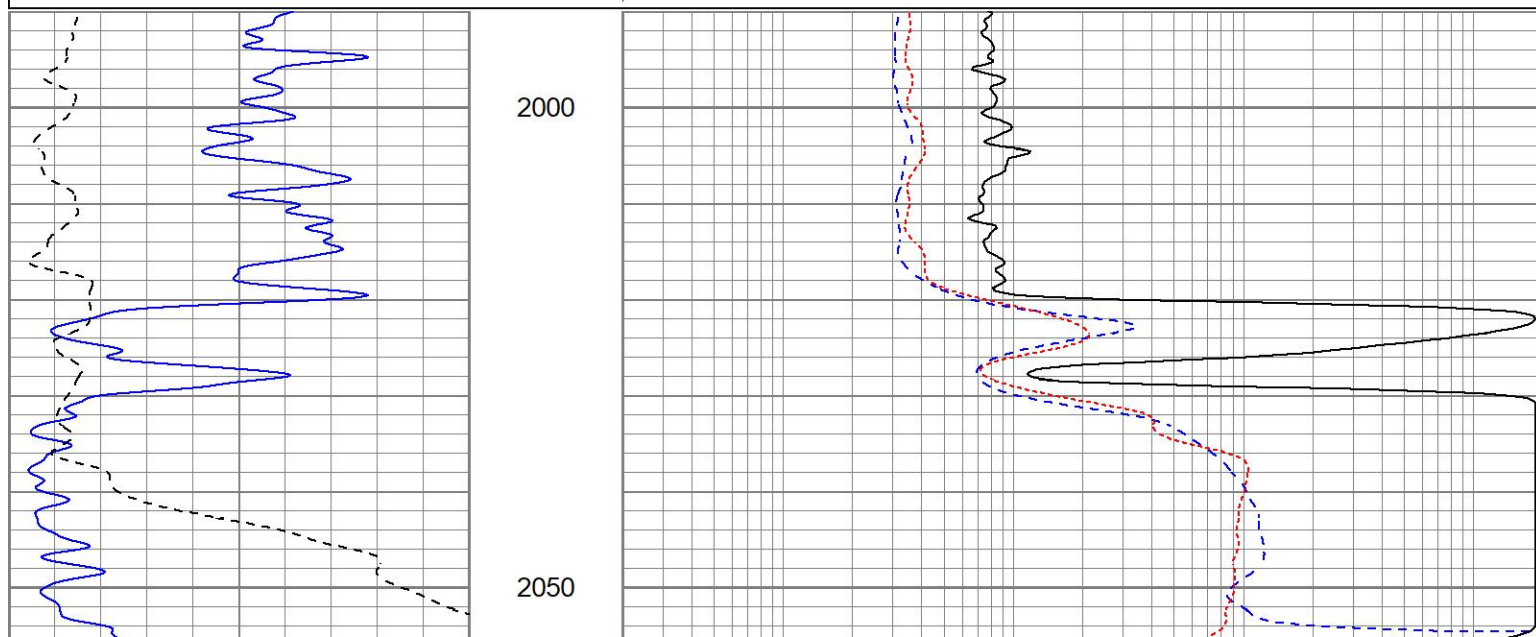
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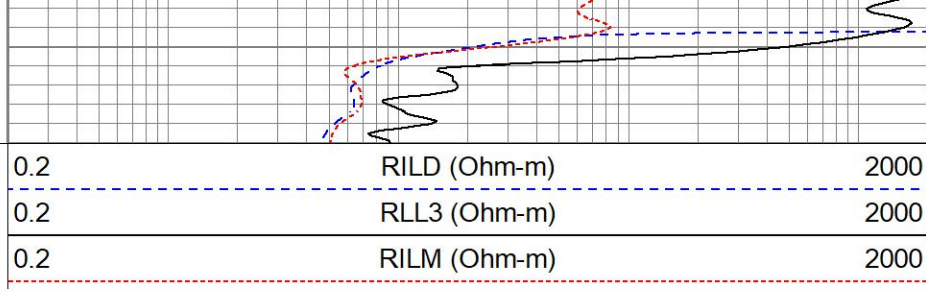
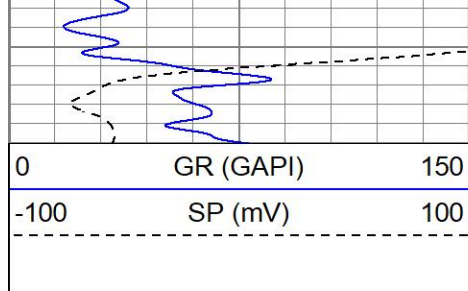




Database File: brpolifka#13-1oh.db
 Dataset Pathname: pass3.1
 Presentation Format: kdil
 Dataset Creation: Fri Apr 08 03:15:10 2022
 Charted by: Depth in Feet scaled 1:240

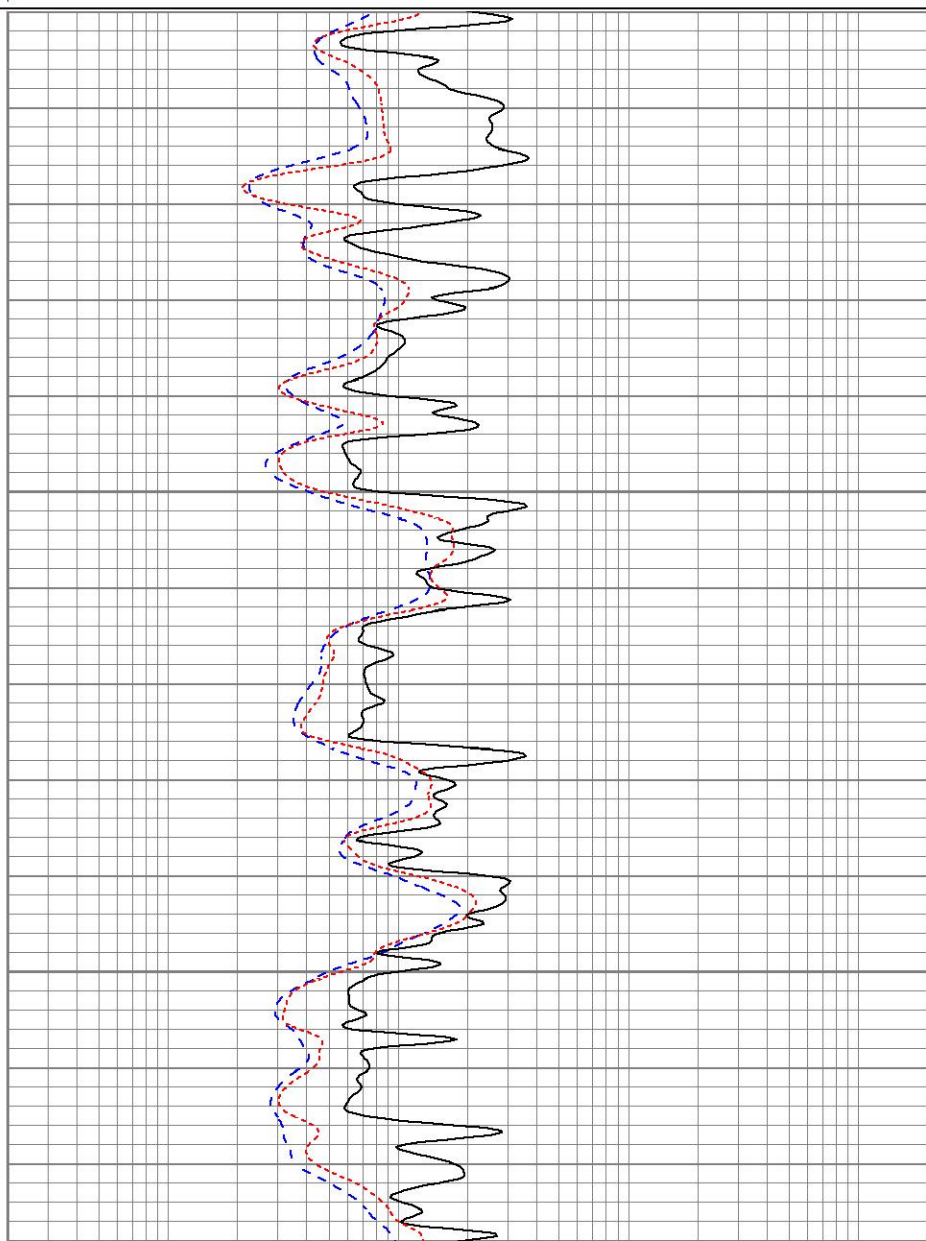
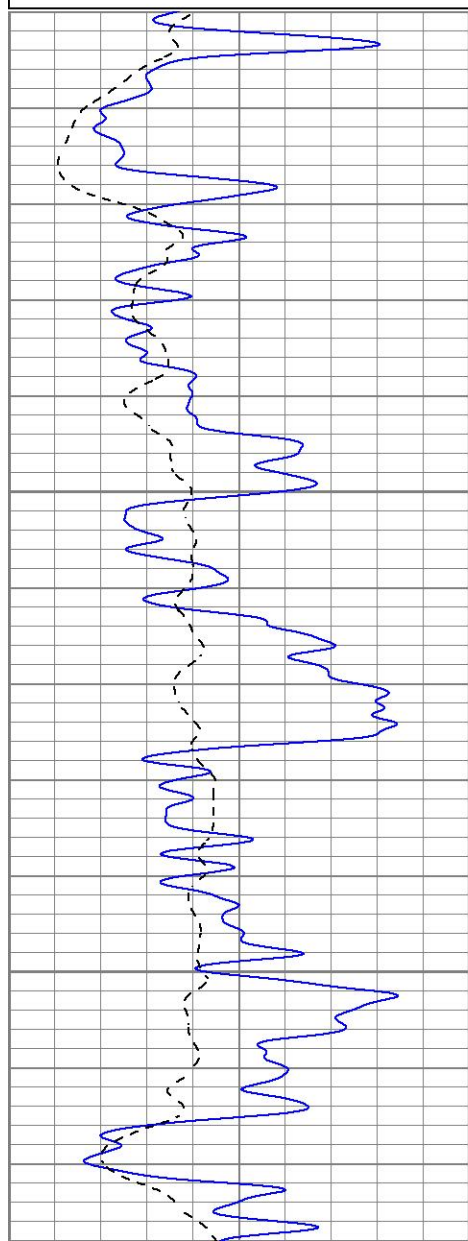
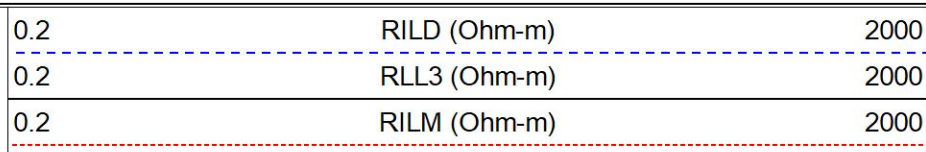
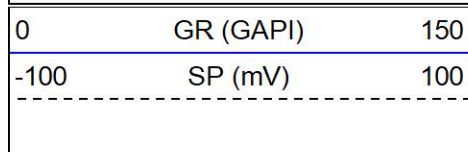
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-100	SP (mV)	100	0.2	RLL3 (Ohm-m)	2000
			0.2	RILM (Ohm-m)	2000

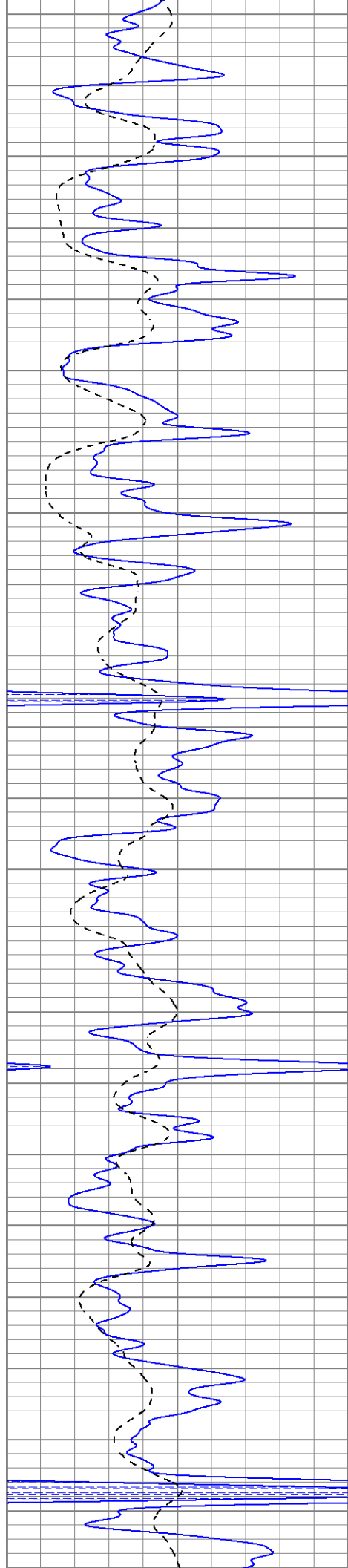




MAIN PASS

Database File: brpolifka#13-1oh.db
 Dataset Pathname: pass3.1
 Presentation Format: kdil
 Dataset Creation: Fri Apr 08 03:15:10 2022
 Charted by: Depth in Feet scaled 1:240



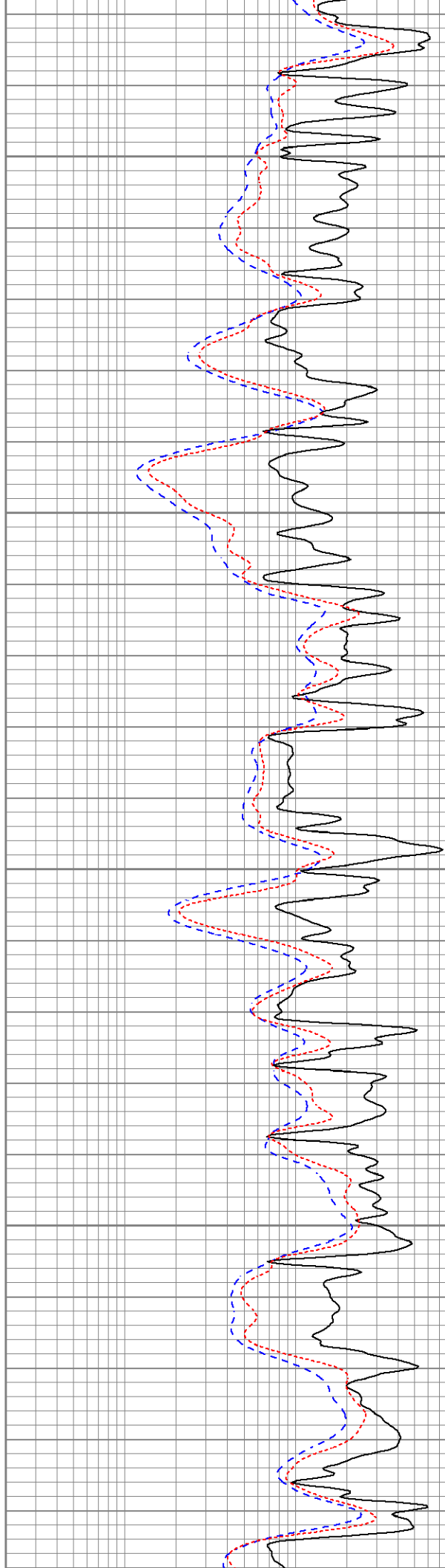


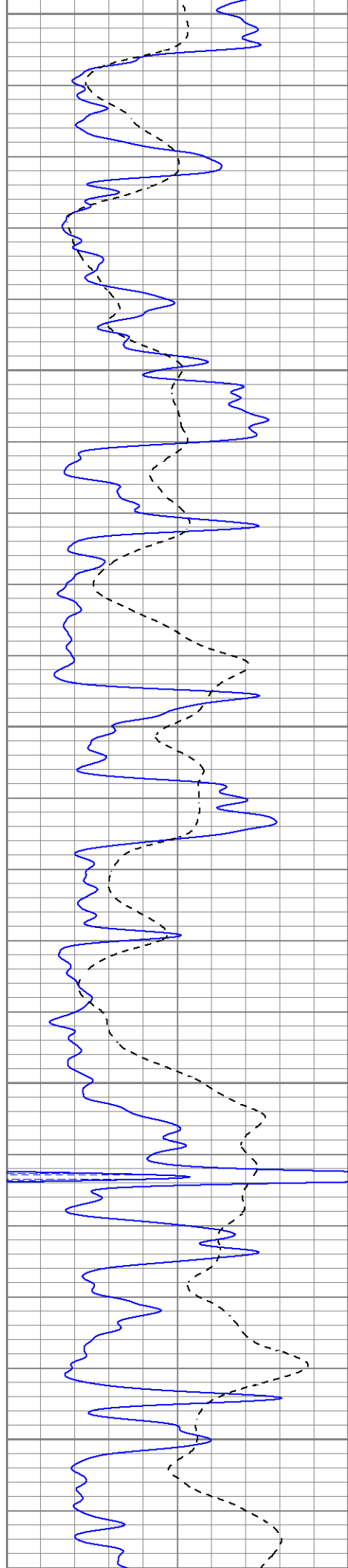
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3650

3700





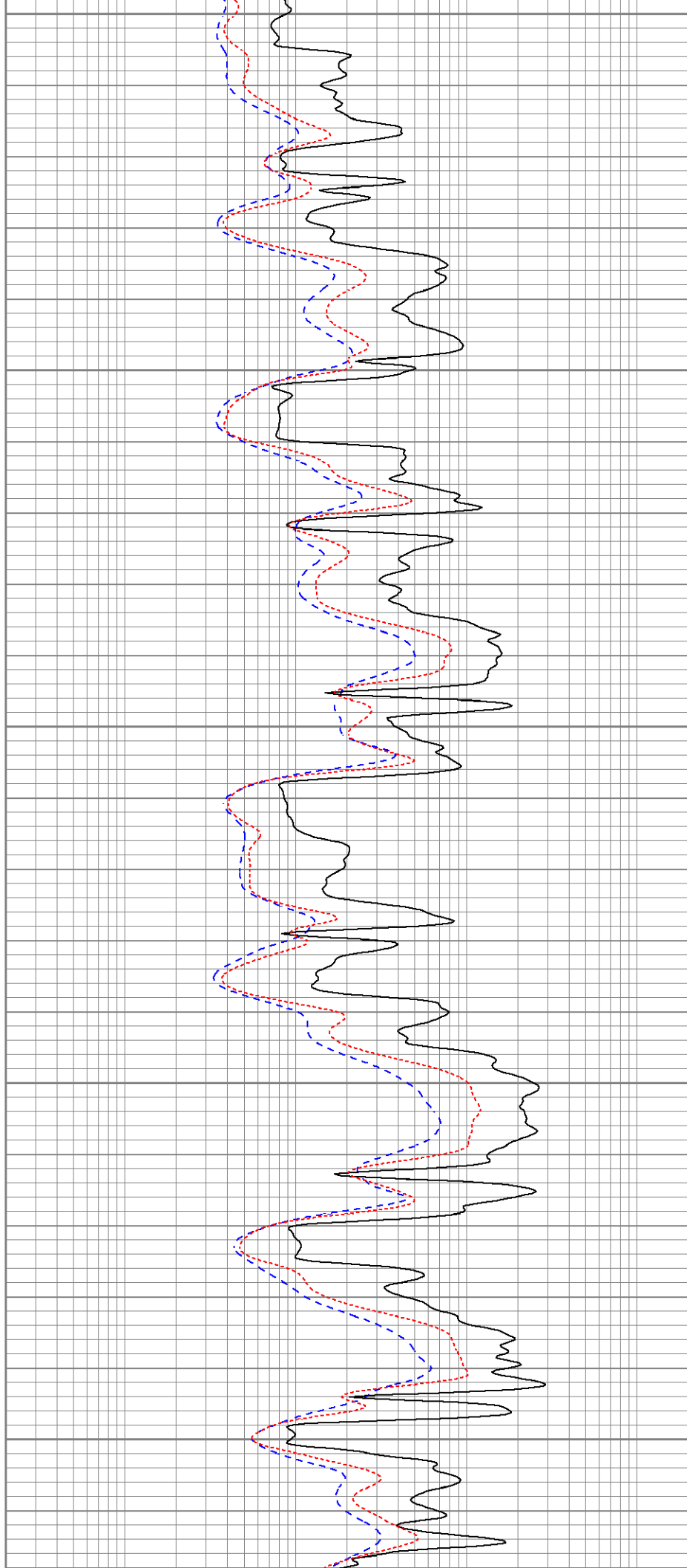
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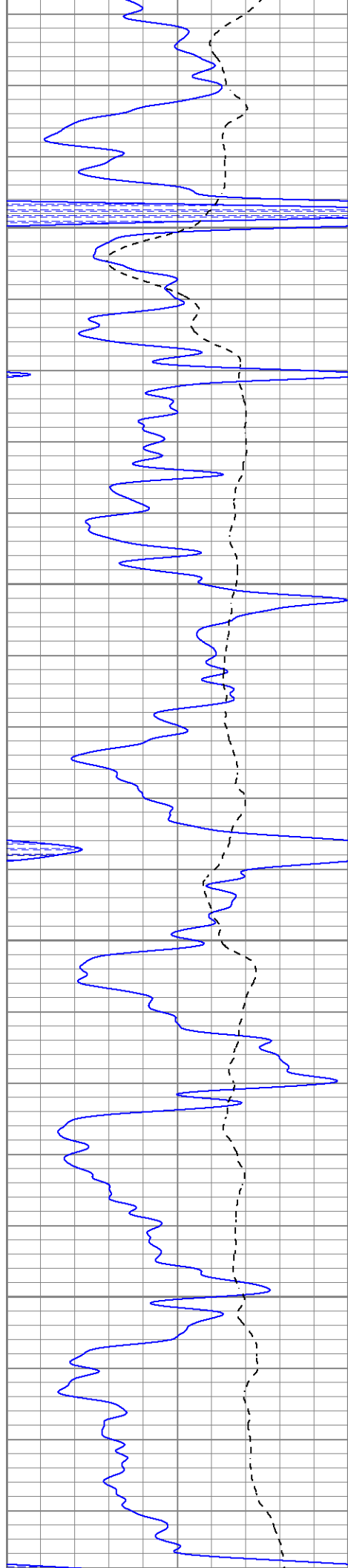
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3850

3900

3950



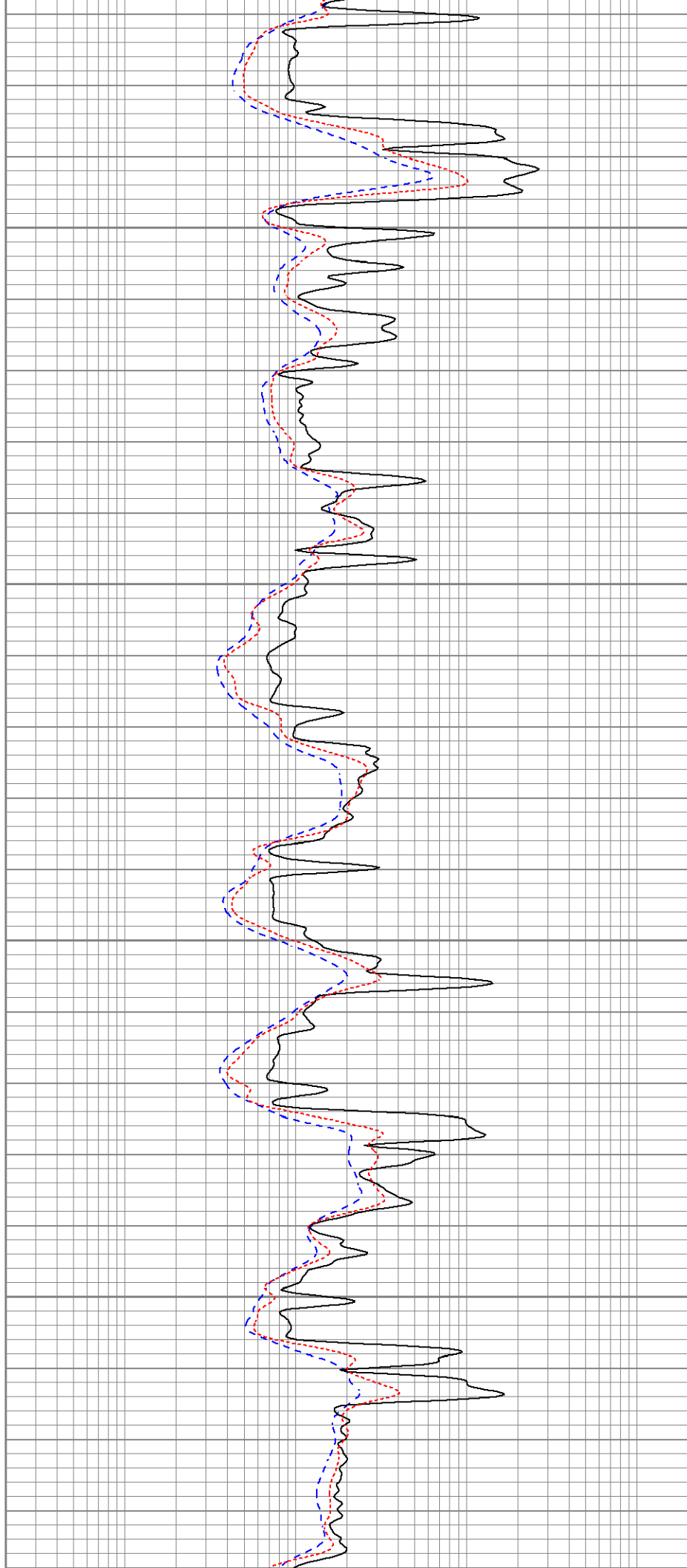


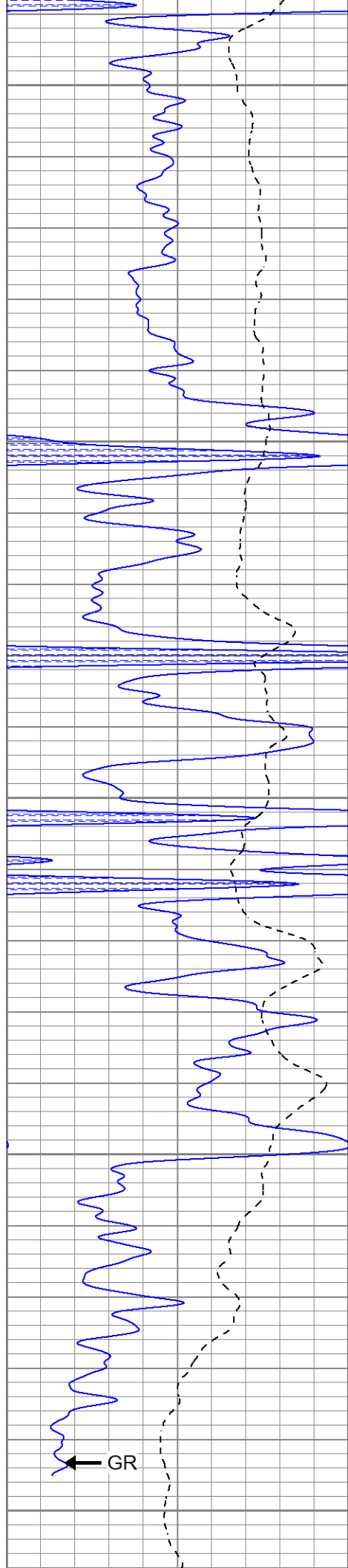
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4150





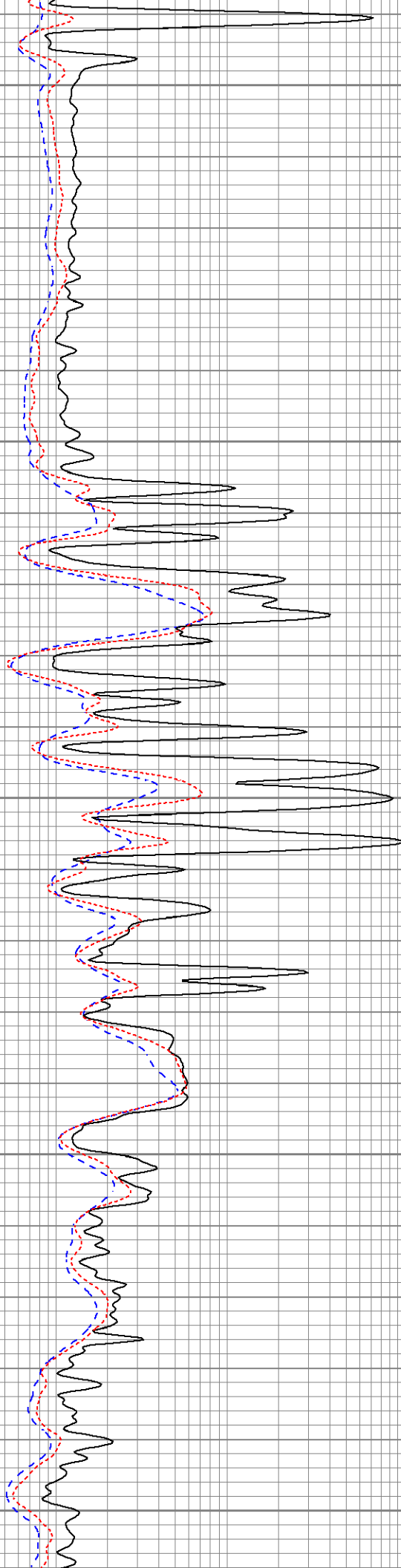
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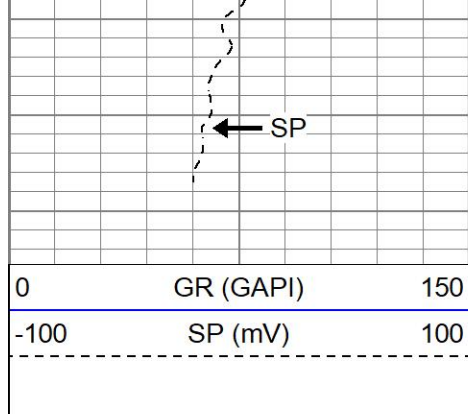
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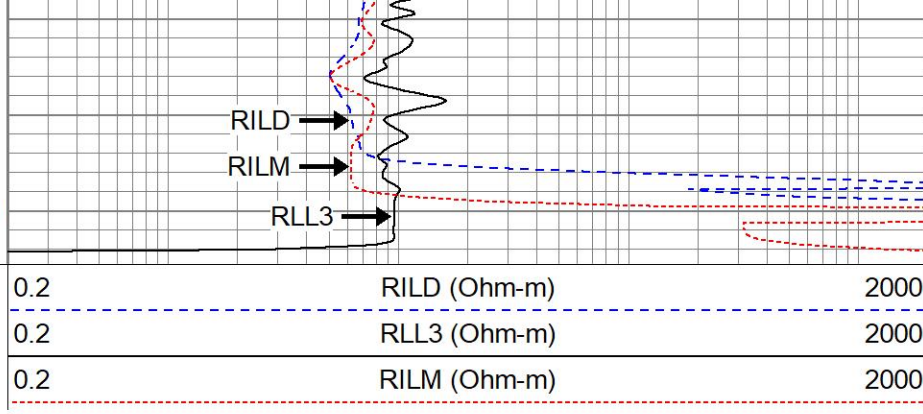
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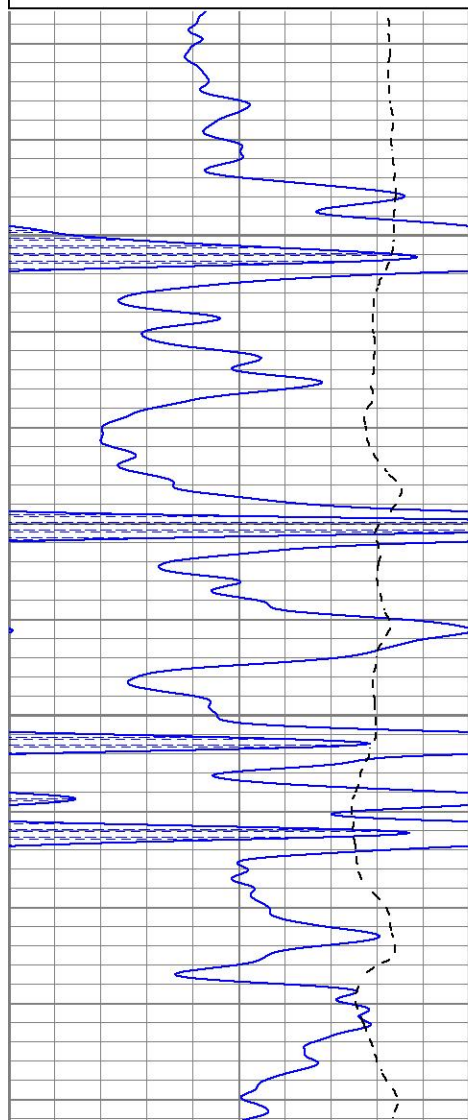
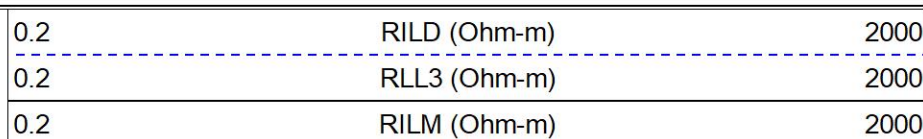
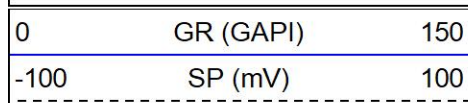


LTD 4430



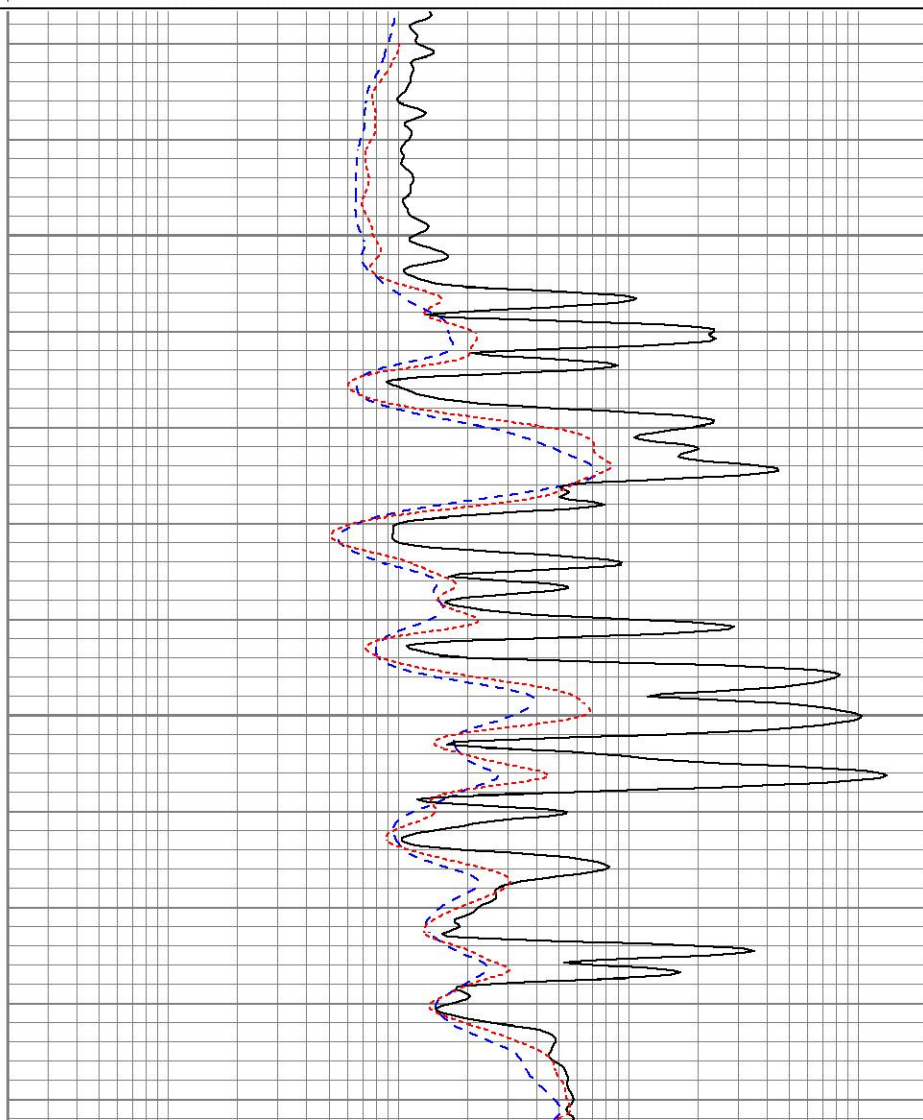
REPEAT SECTION

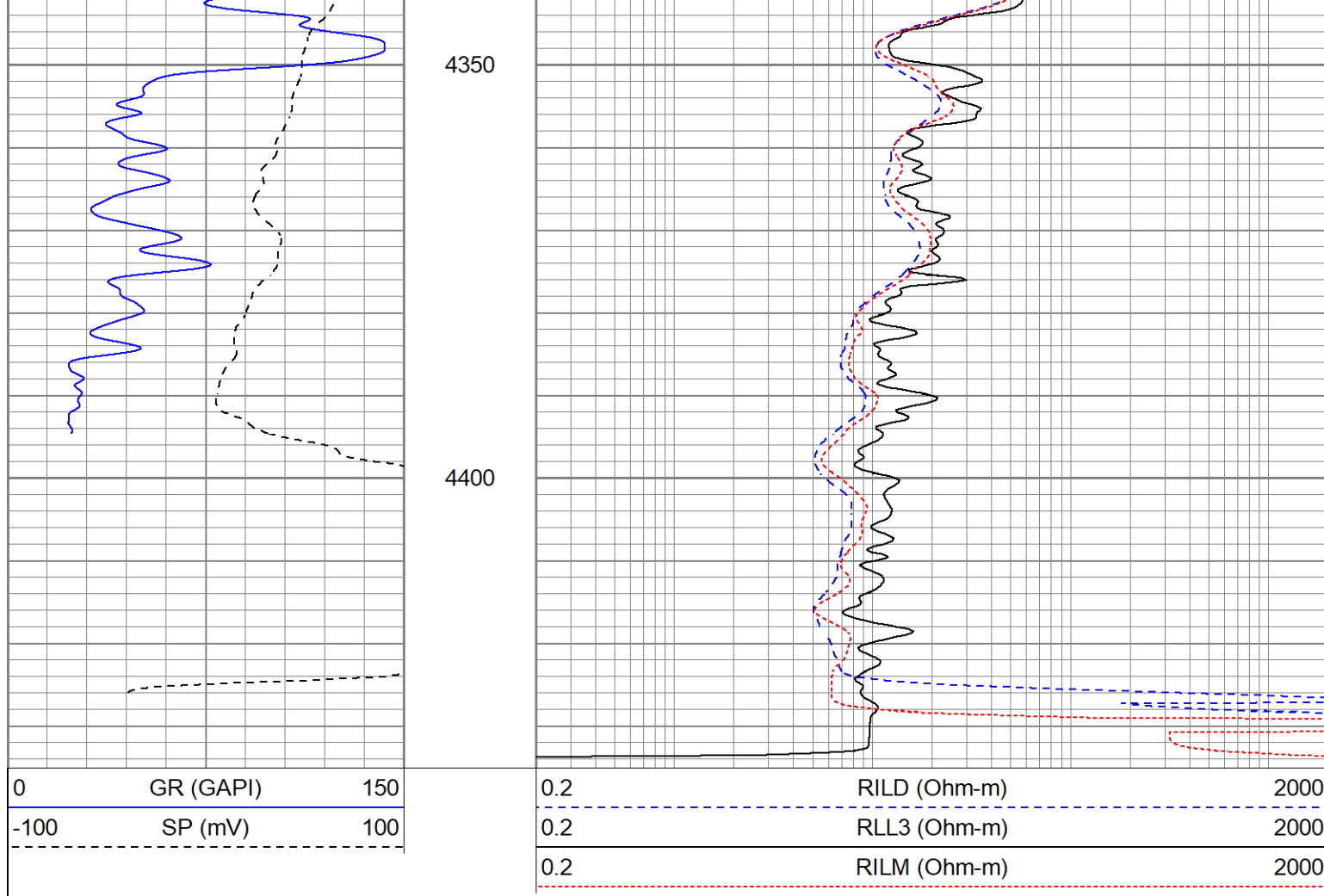
Database File brpolifka#13-1oh.db
 Dataset Pathname pass2.1
 Presentation Format kdil
 Dataset Creation Fri Apr 08 03:27:19 2022
 Charted by Depth in Feet scaled 1:240



4250

4300





Calibration Report		
Database File	brpolifka#13-1oh.db	
Dataset Pathname	pass2.1	
Dataset Creation	Fri Apr 08 03:27:19 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		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								
Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	0.018	0.672	mmho/m	0.000	350.000	mmho/m	1.000	2.124

Deep	-0.219	349.905	mmho/m	-0.345	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								
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
Admyr Lithodensity Calibration Report								
Serial-Model:				1C-C				
Source:				Blue2				
Master Calibration Performed:				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							

Inclinometer Calibration Report

Performed: Wed May 5 19:20:48 2021

	Low Read.	High Read.	Low Ref.	High Ref.	
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X Accelerometer	205.00	1843.00	-1.00	1.00	gee
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Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
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Z Accelerometer					gee
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Gamma Ray Calibration Report

Serial Number:	WithMC
Tool Model:	WMC
Performed:	Wed May 5 19:21:08 2021

Calibrator Value:	1.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	1.0000	GAPI/cps
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