



DUAL INDUCTION LOG

Company	BEREXCO LLC	Location:	API # : 15 167 24130	Other Services
Well	BITTER #8		680' FNL & 410' FWL	ML CDNL
Field	TRAPP			
County	RUSSELL			
State	Kansas			
Permanent Datum	SEC 16 TWP 15S RGE 13W	Ground Level	Elevation	1888
Log Measured From	KB 10' AGL			
Drilling Measured From	KB			
Elevation				K.B. 1898 D.F. 1896 G.L. 1888
Date	01/20/23			
Run Number	One			
Depth Driller	3450			
Depth Logger	3442			
Bottom Logged Interval	3440			
Top Log Interval	00			
Casing Driller	8 5/8"@262'			
Casing Logger	262			
Bit Size	7 7/8"			
Type Fluid in Hole	Chemical			
Density / Viscosity	9.0/60			
pH / Fluid Loss	10.0/8.2			
Source of Sample	Pit			
Rm @ Meas. Temp	.8@60degf			
Rmf @ Meas. Temp	.60@60degf			
Rmc @ Meas. Temp	.96@60degf			
Source of Rmf / Rmc	Calculated			
Rm @ BHT	.51@93degf			
Time Circulation Stopped	8:30 PM			
Time Logger on Bottom	10:30 PM			
Maximum Recorded Temperature	93degf			
Equipment Number	T-605			
Location	Hays, KS.			
Recorded By	GUS PFANENSTIEL			
Witnessed By	KEATON JONES			

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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

EAST OF RUSSELL TO PIONEER EXIT SOUTH TO
MITCHELL RD. 1/32 EAST SOUTN INTO.

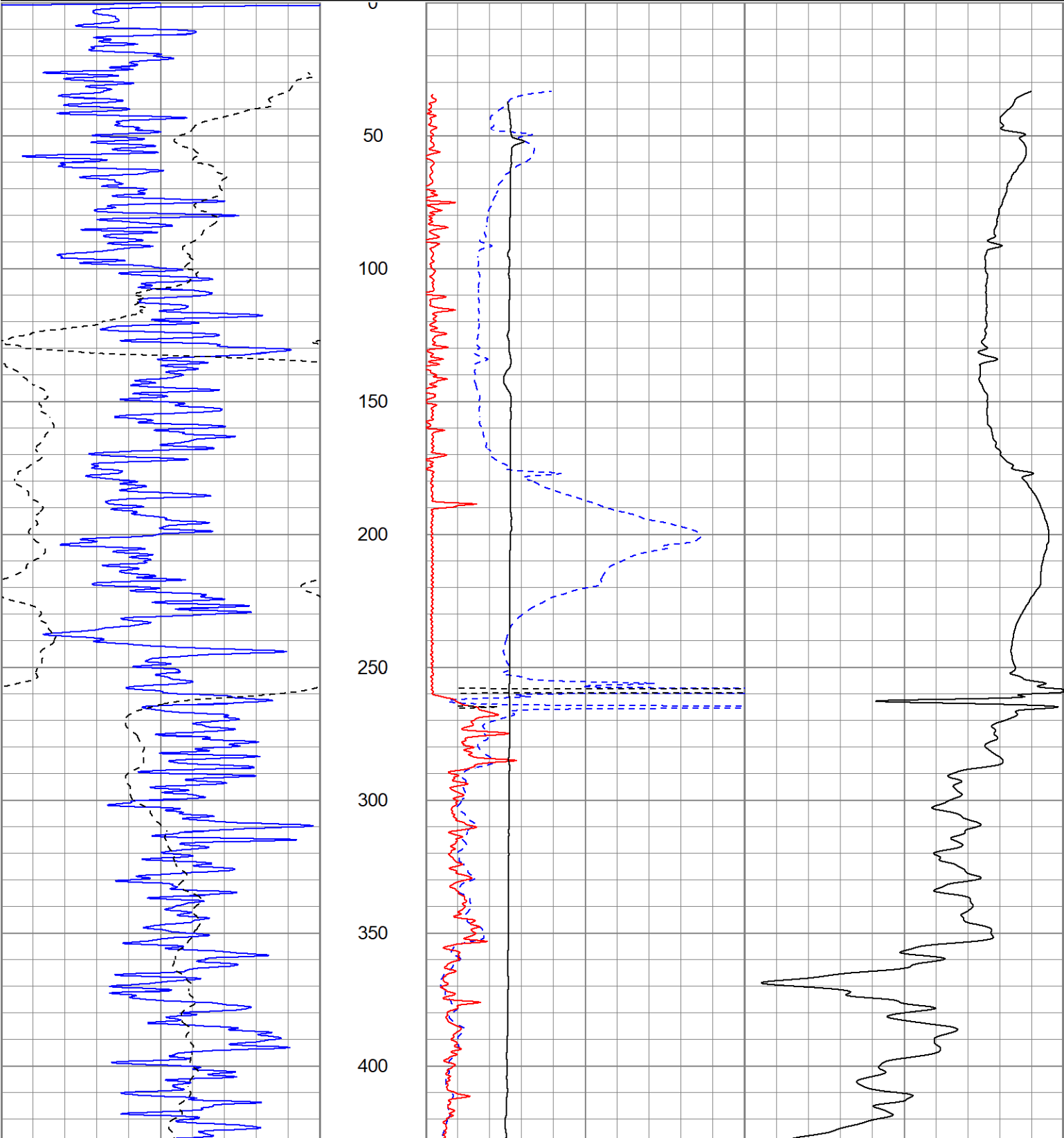
Thanks for using Gemini Wireline LLC
785-625-1182

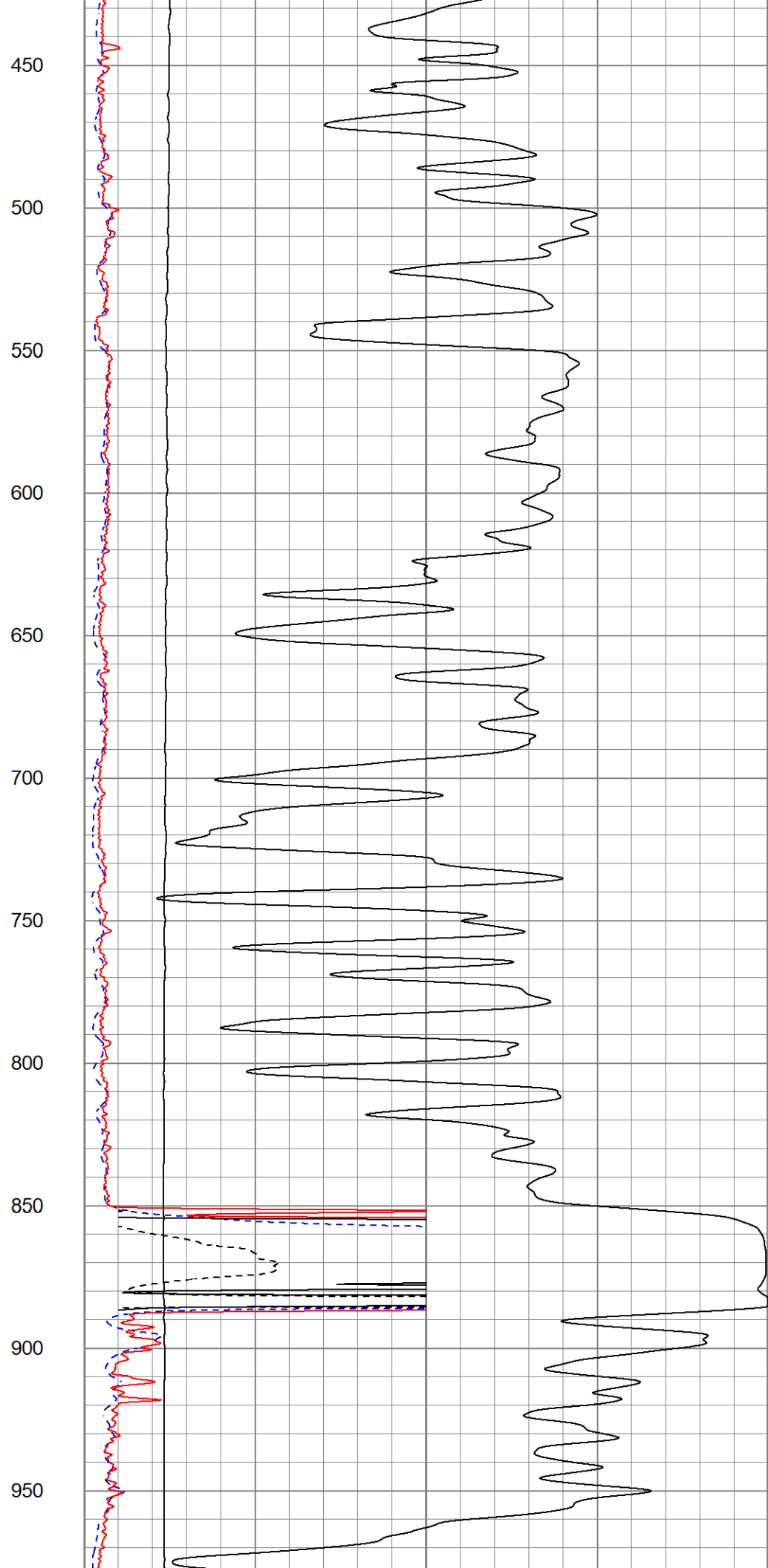
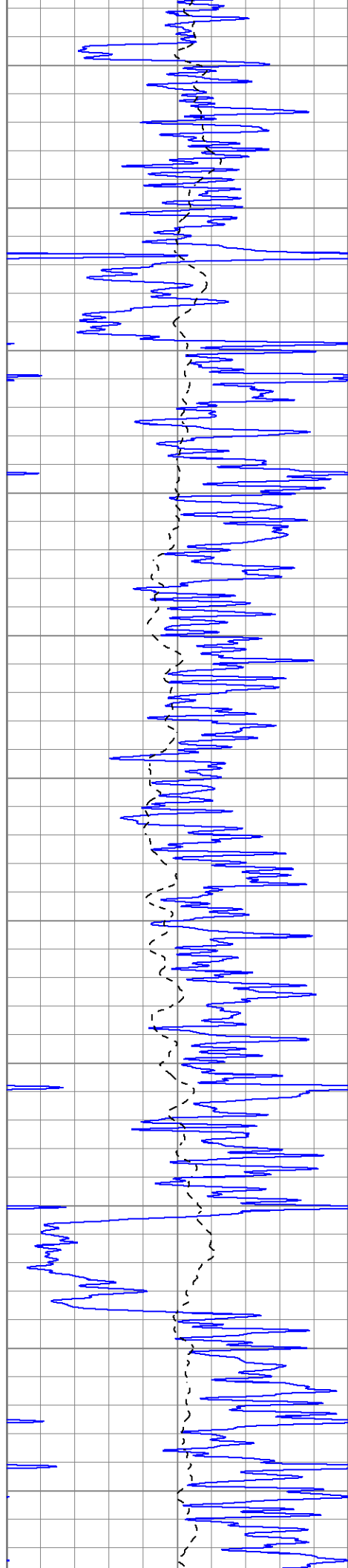


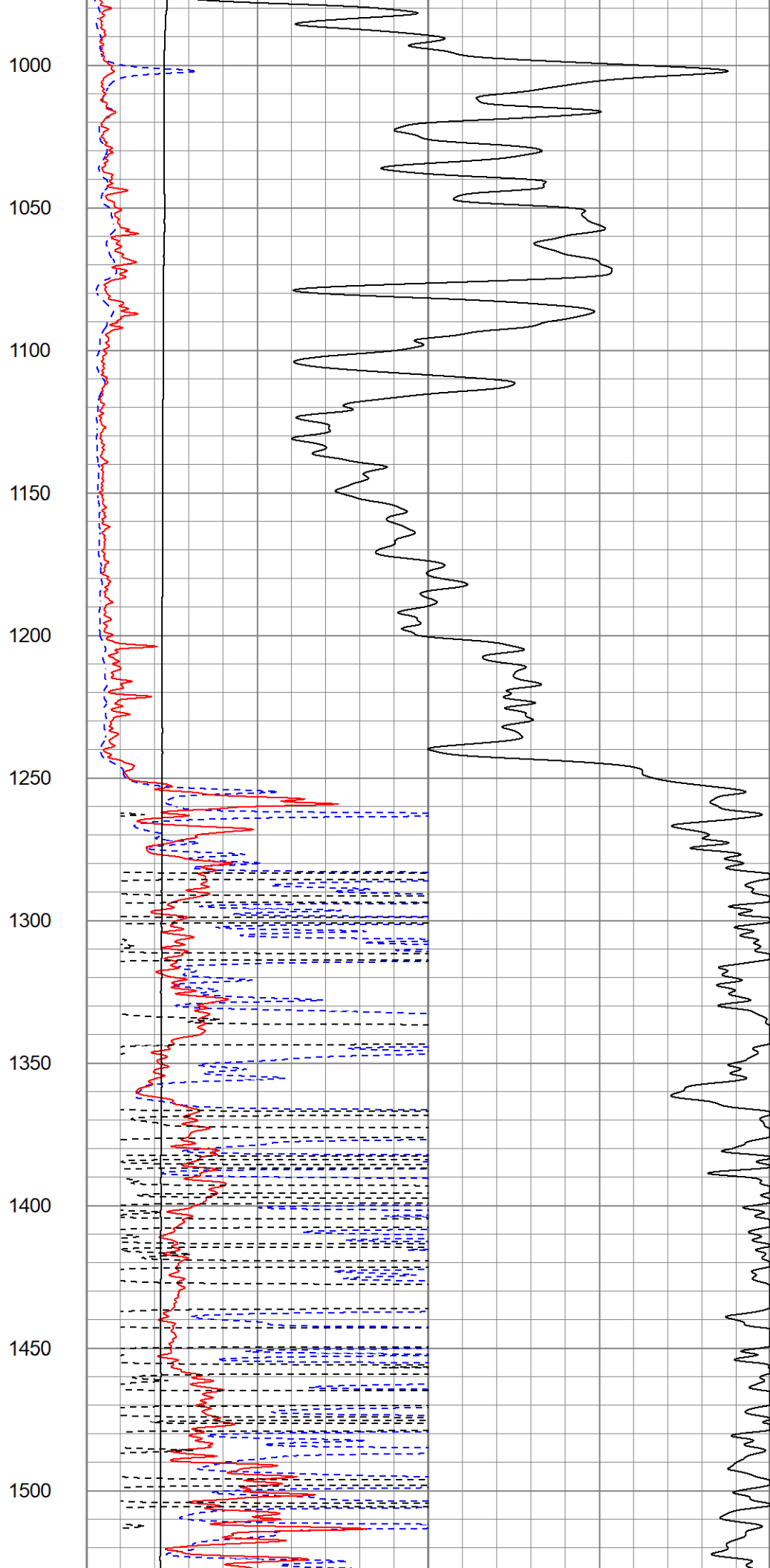
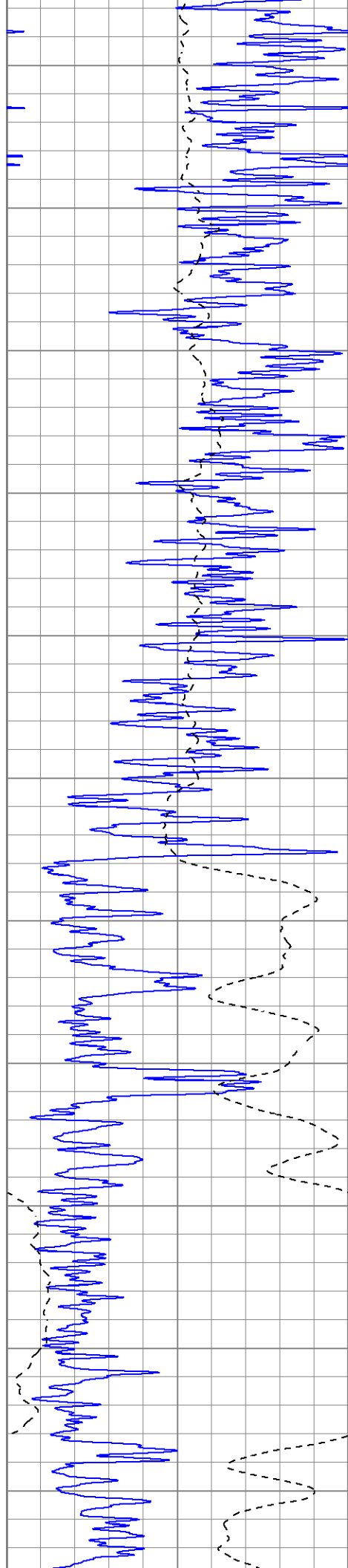
MAIN PASS

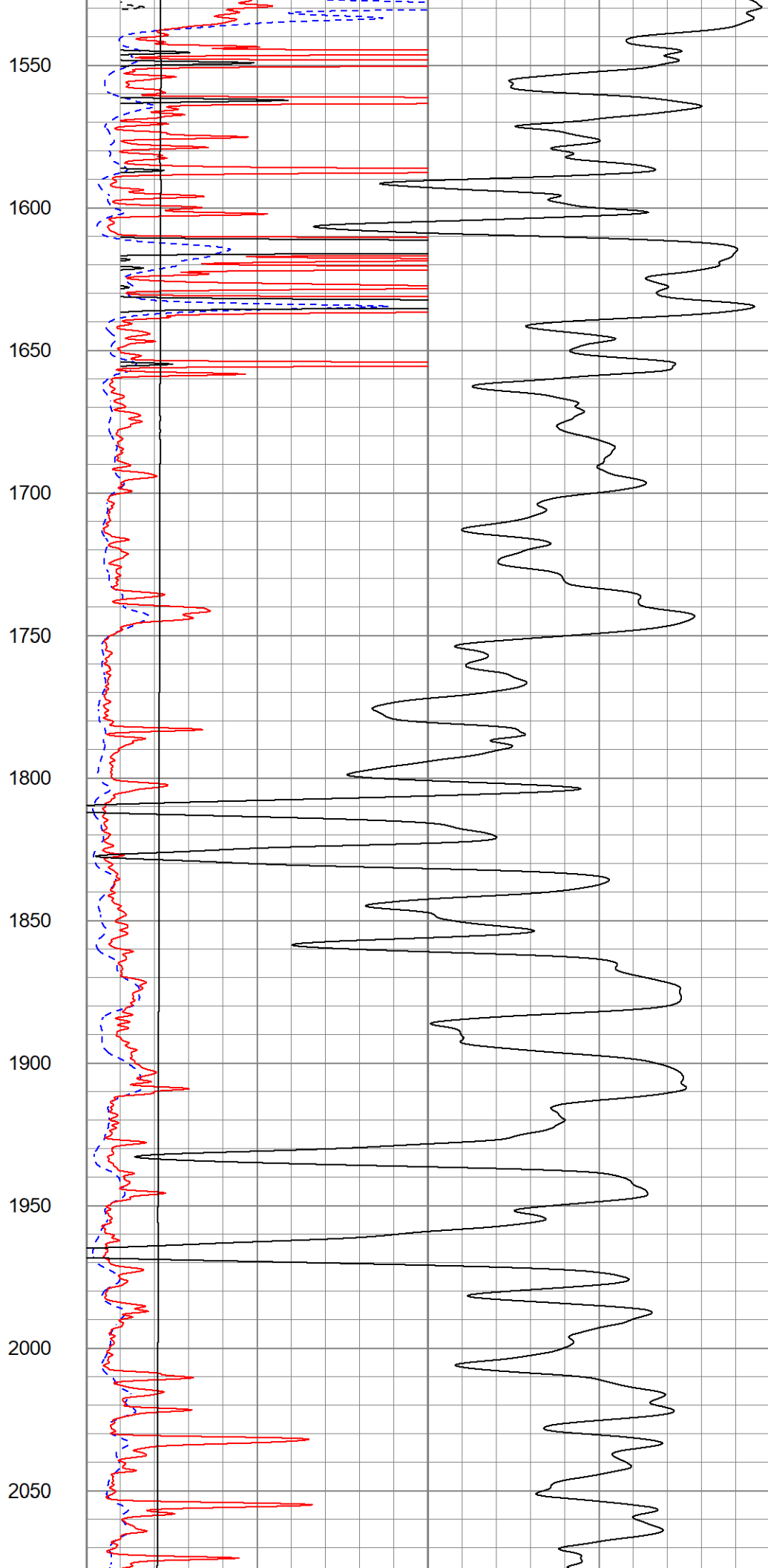
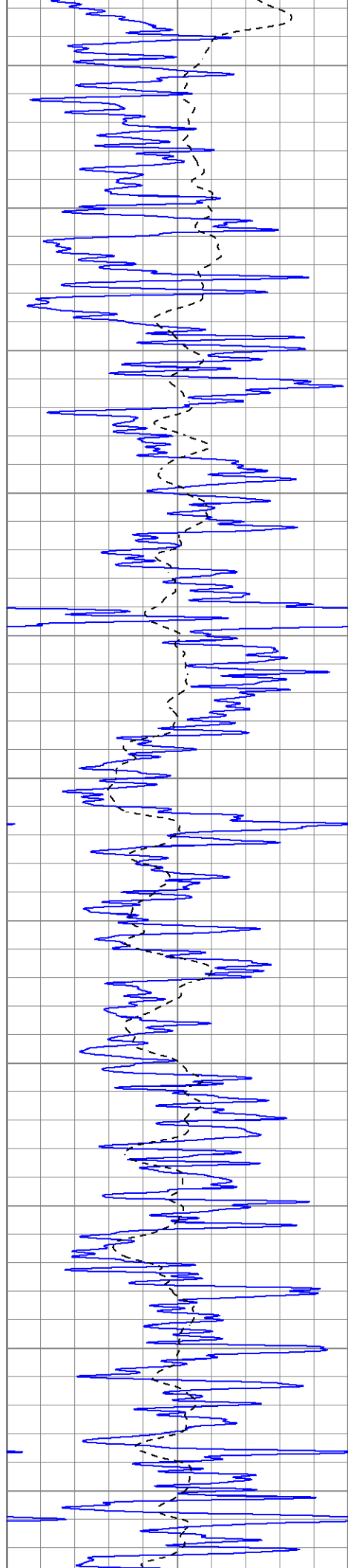
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Dataset Pathname	pass3.1
Presentation Format	kdillinn
Dataset Creation	Fri Jan 20 23:27:26 2023
Charted by	Depth in Feet scaled 1:600

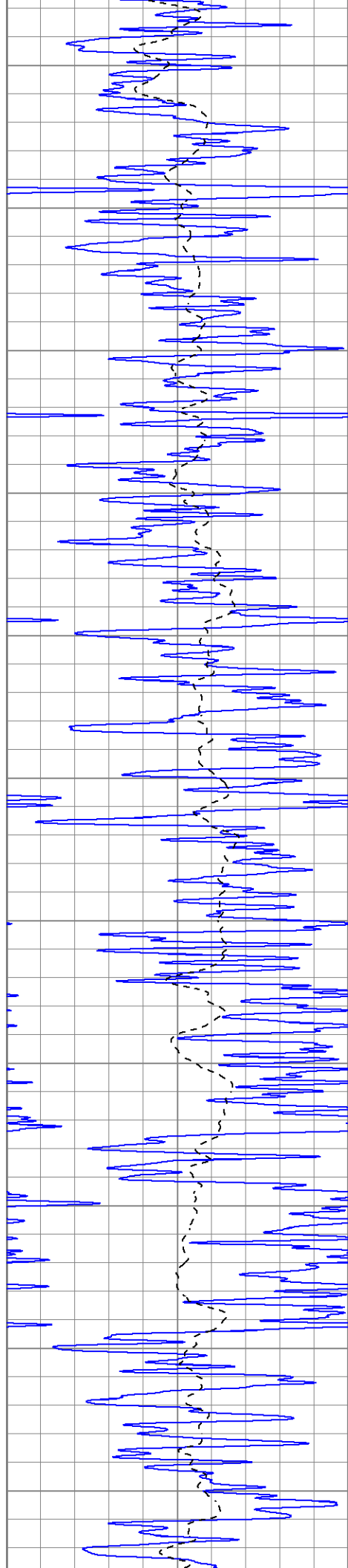
0	GR (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	10000	LTEN (lb)	0
			0	RILD (Ohm-m)	50
			0	RLL3 (Ohm-m)	50
			50	RILD x 10 (Ohm-m)	500
			50	RLL3 x 10 (Ohm-m)	500











2100

2150

2200

2250

2300

2350

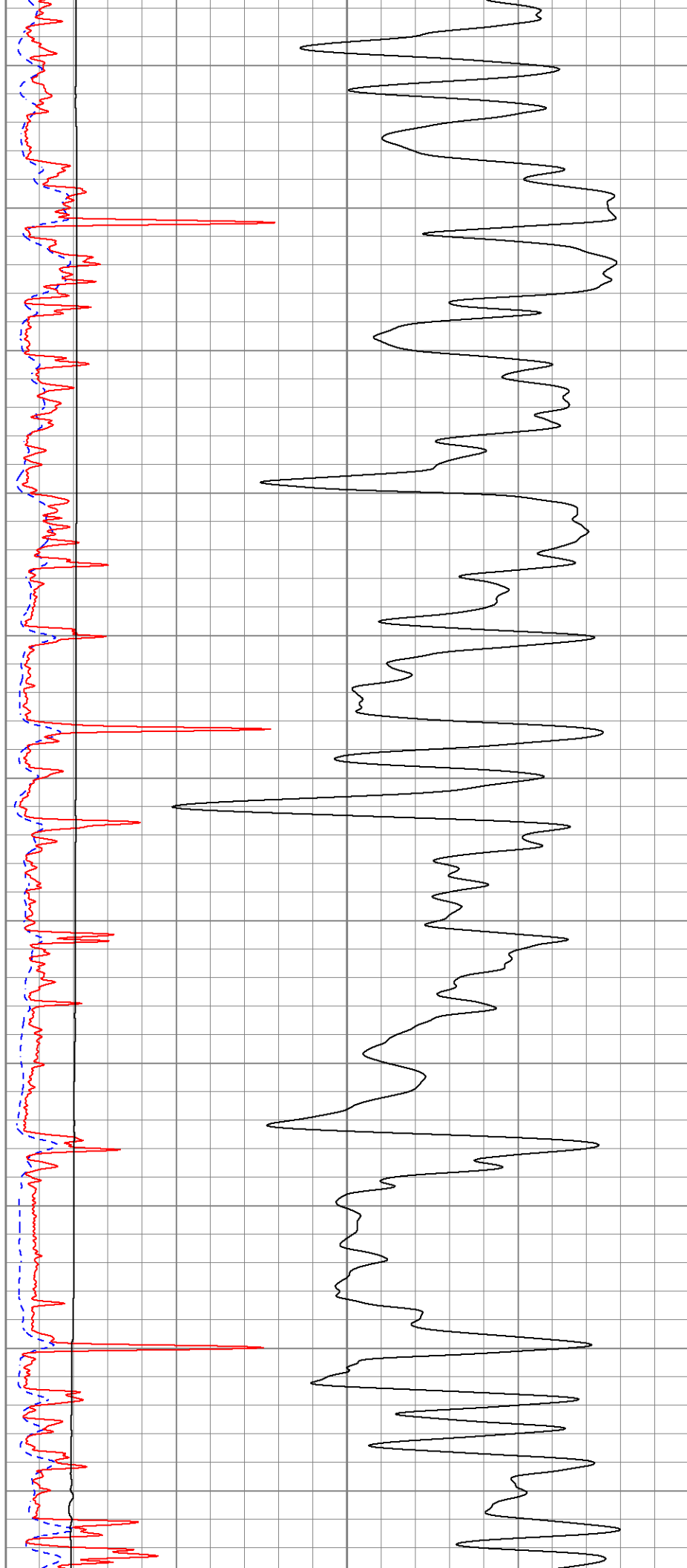
2400

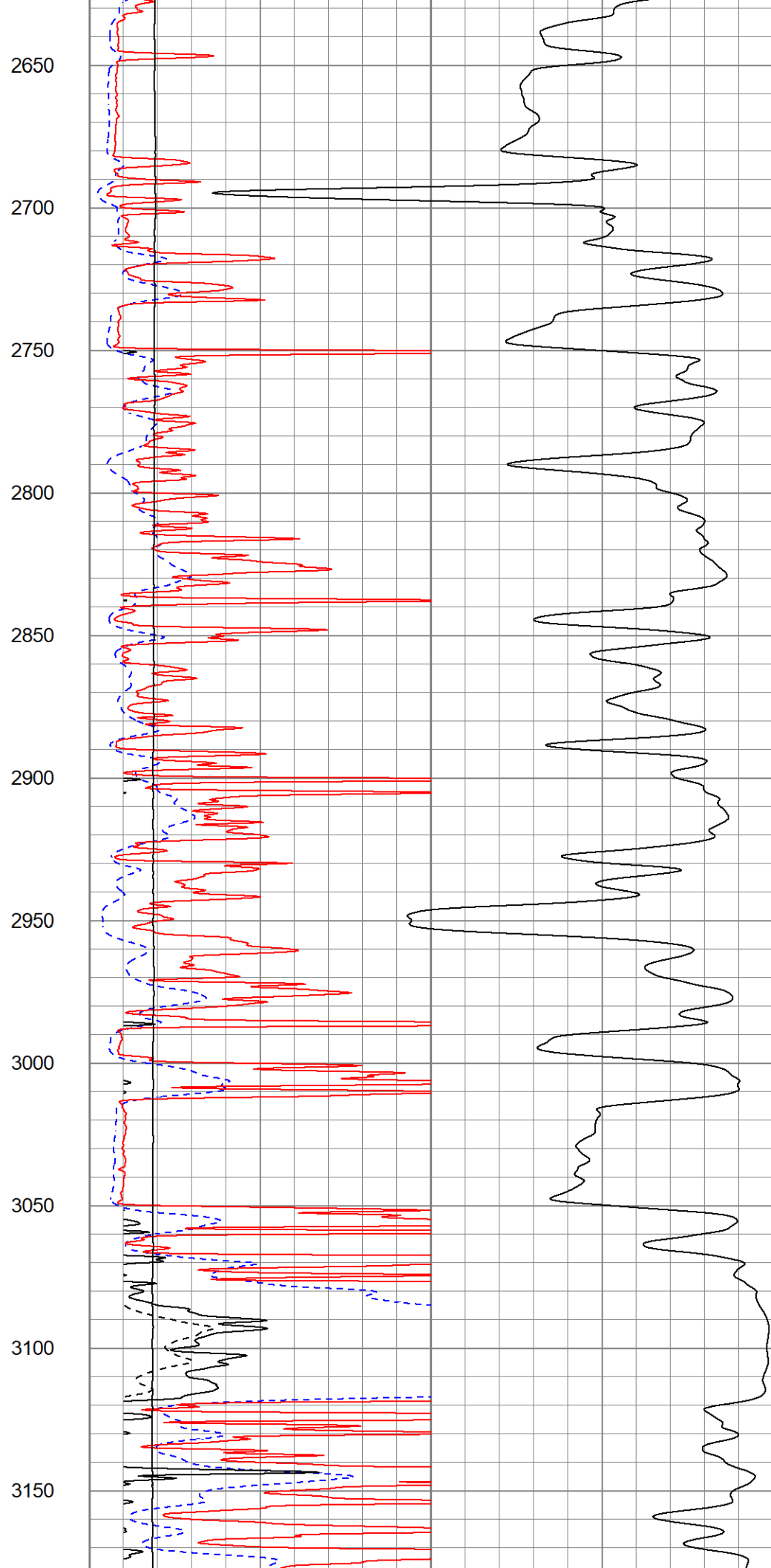
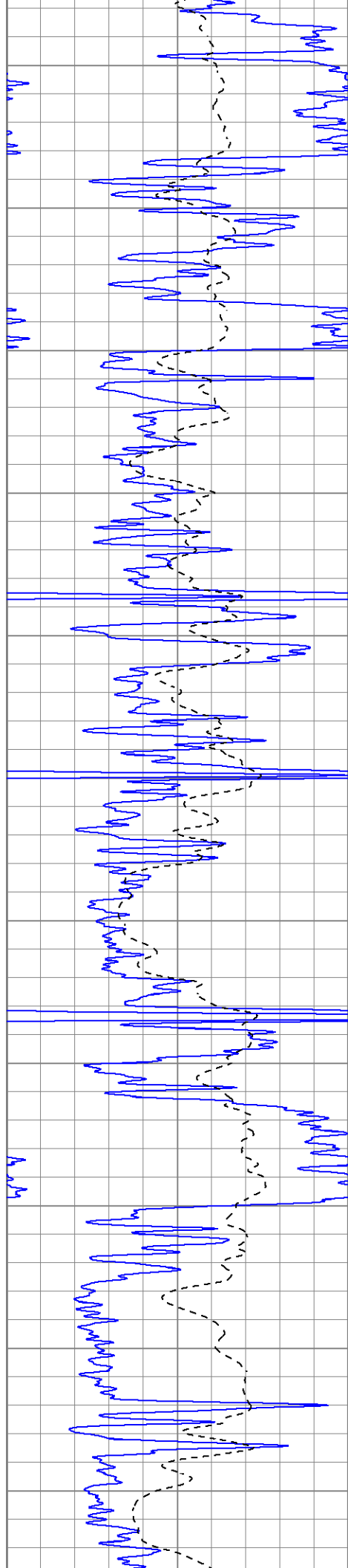
2450

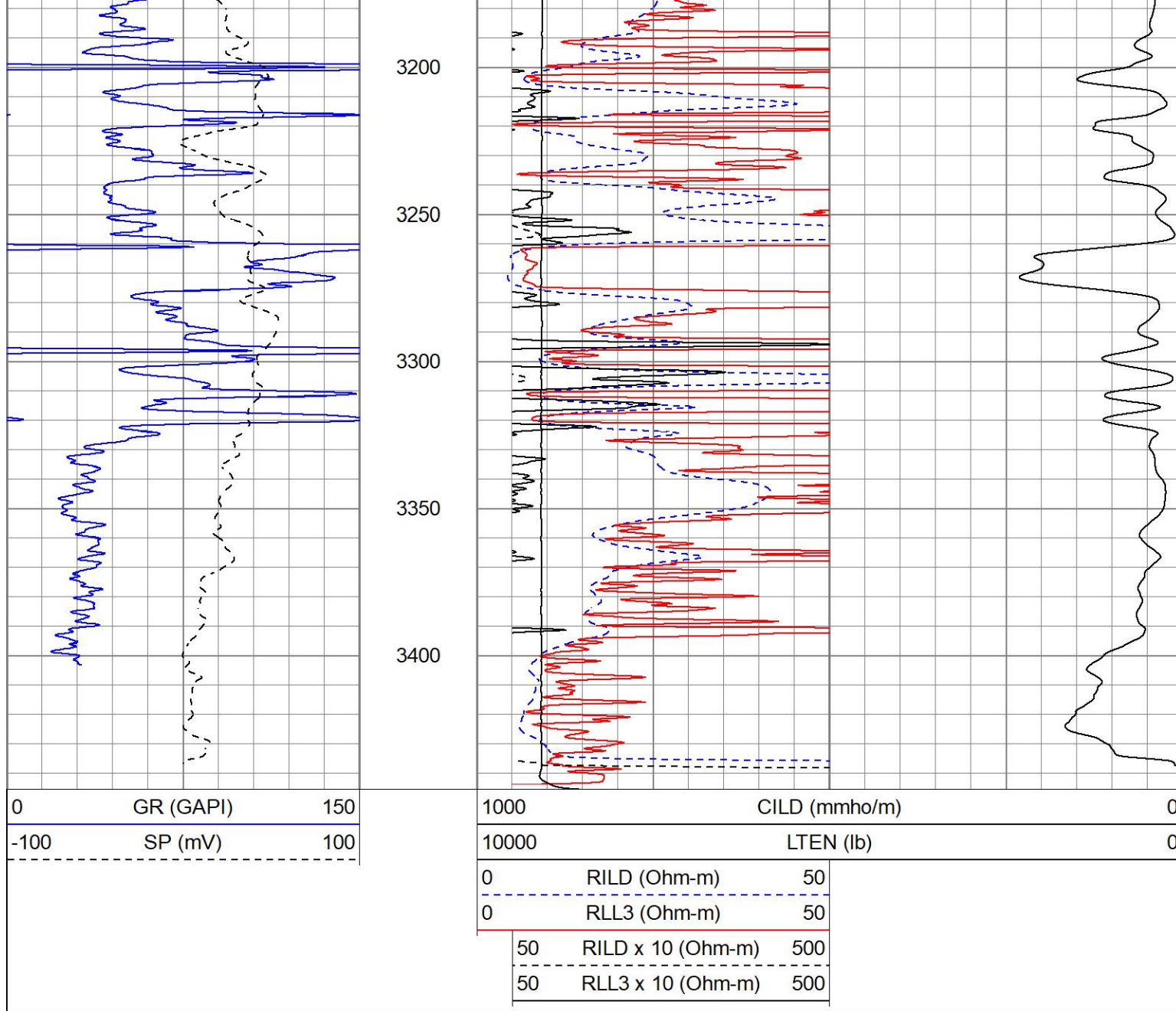
2500

2550

2600

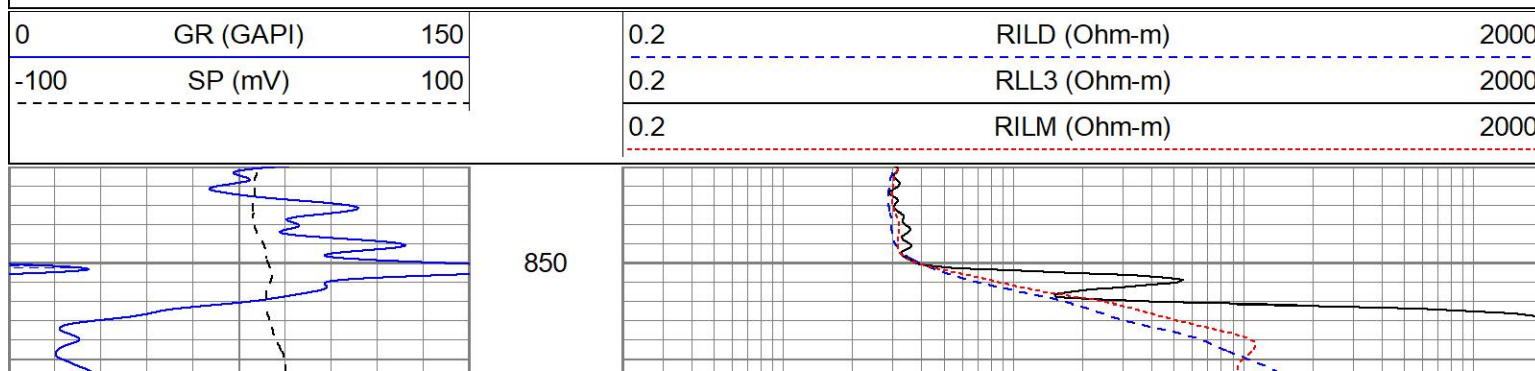


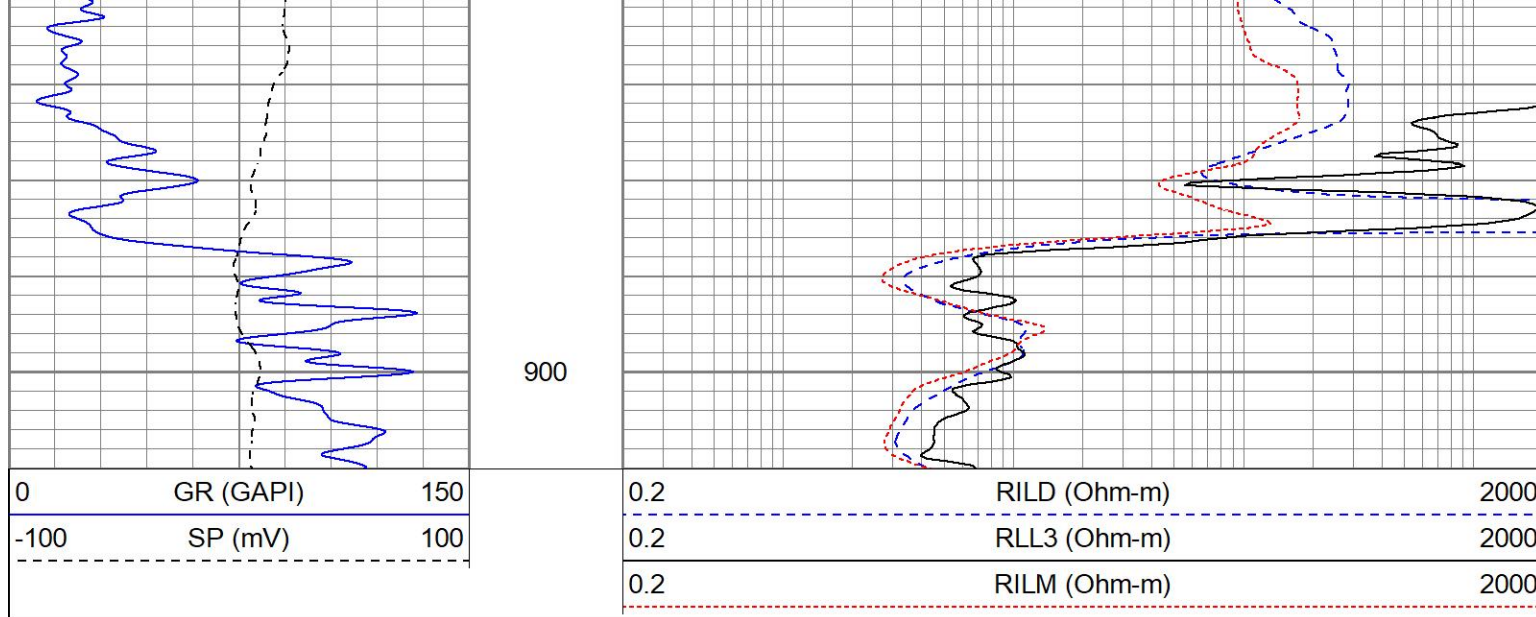




MAIN PASS

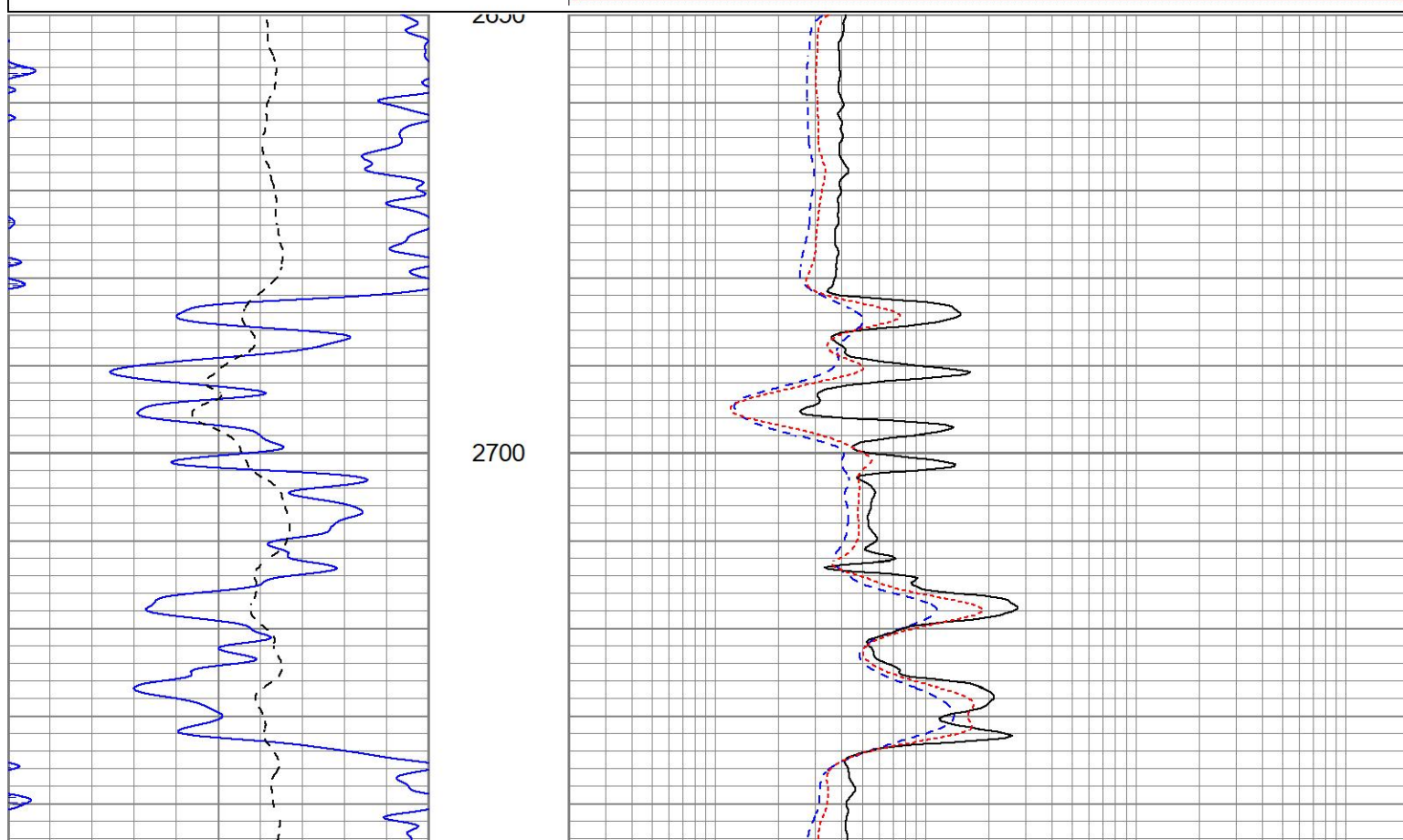
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 Dataset Pathname pass3.1
 Presentation Format kdil
 Dataset Creation Fri Jan 20 23:27:26 2023
 Charted by Depth in Feet scaled 1:240

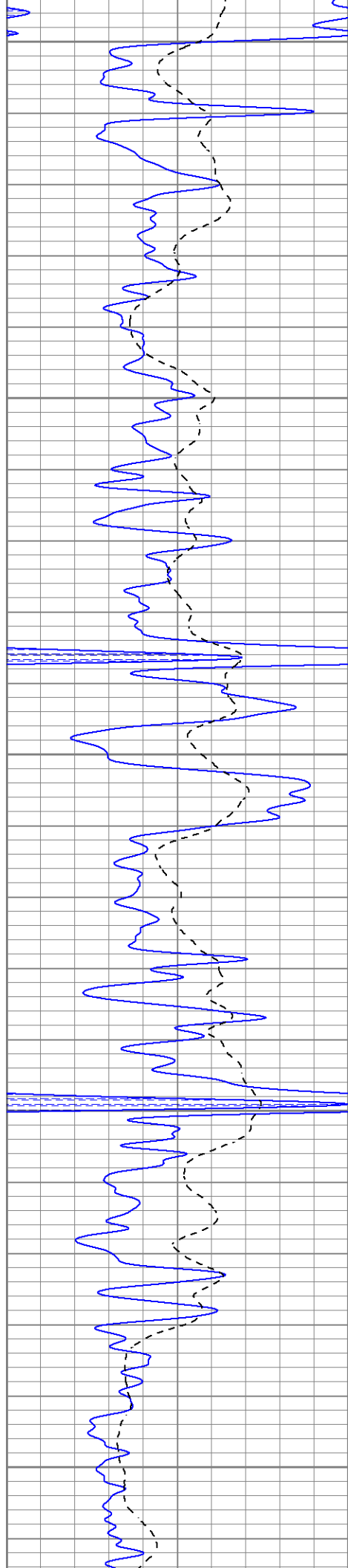




MAIN PASS

Database File: berexcobitter#8oh.db
 Dataset Pathname: pass3.1
 Presentation Format: kdil
 Dataset Creation: Fri Jan 20 23:27:26 2023
 Charted by: Depth in Feet scaled 1:240





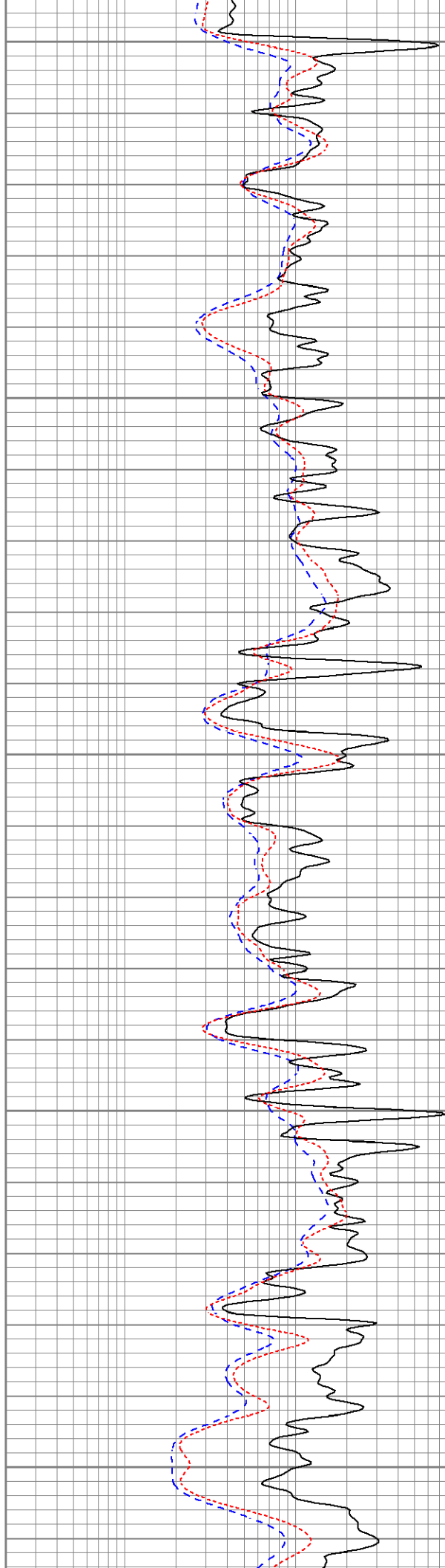
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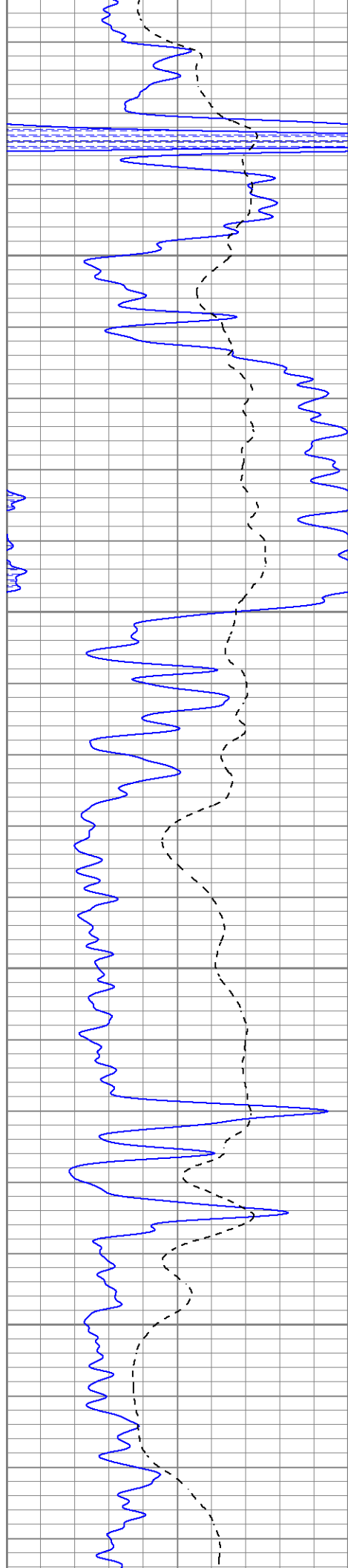
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2850

2900

2950



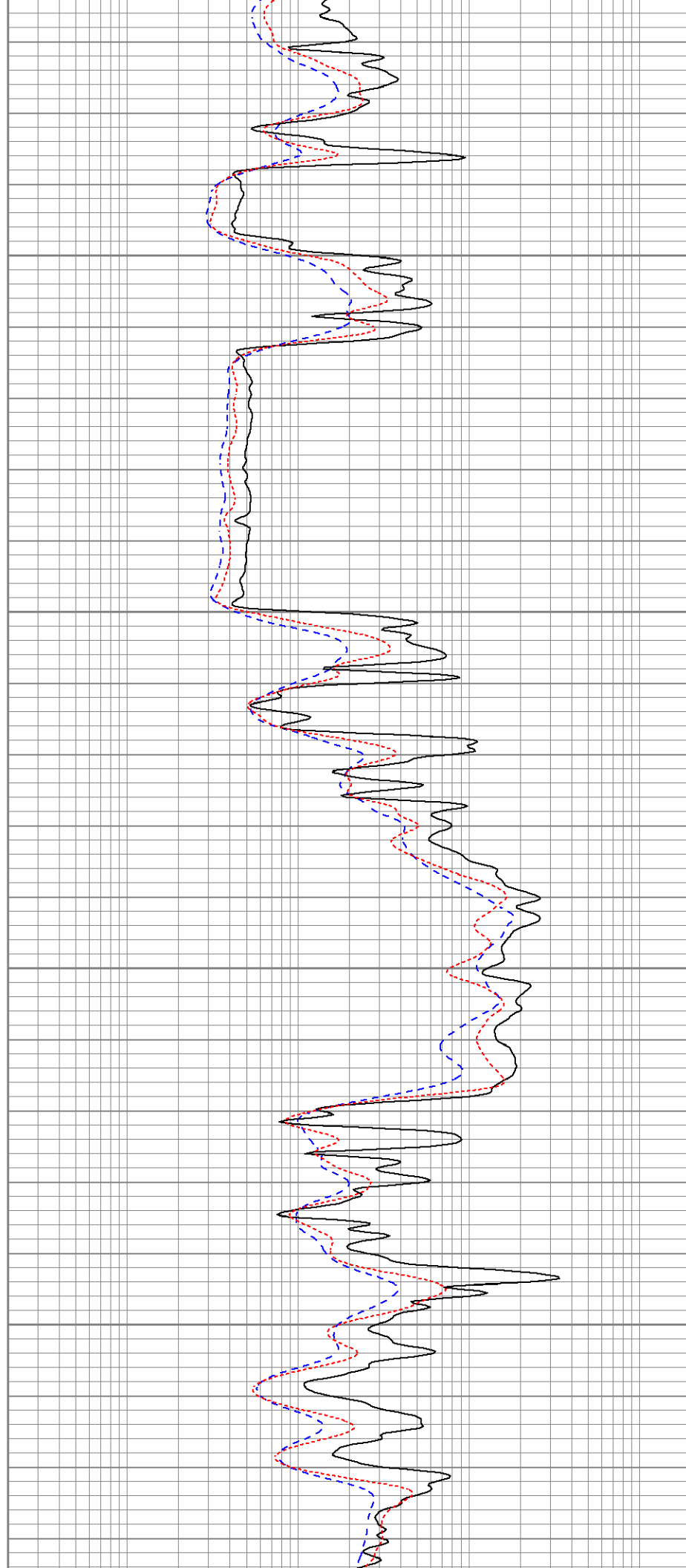


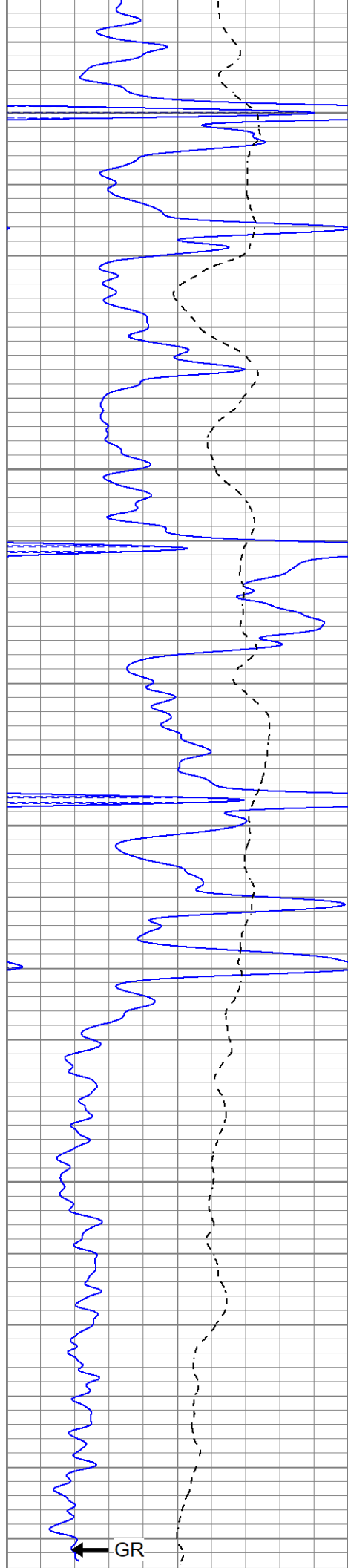
3000

3050

3100

3150





3200

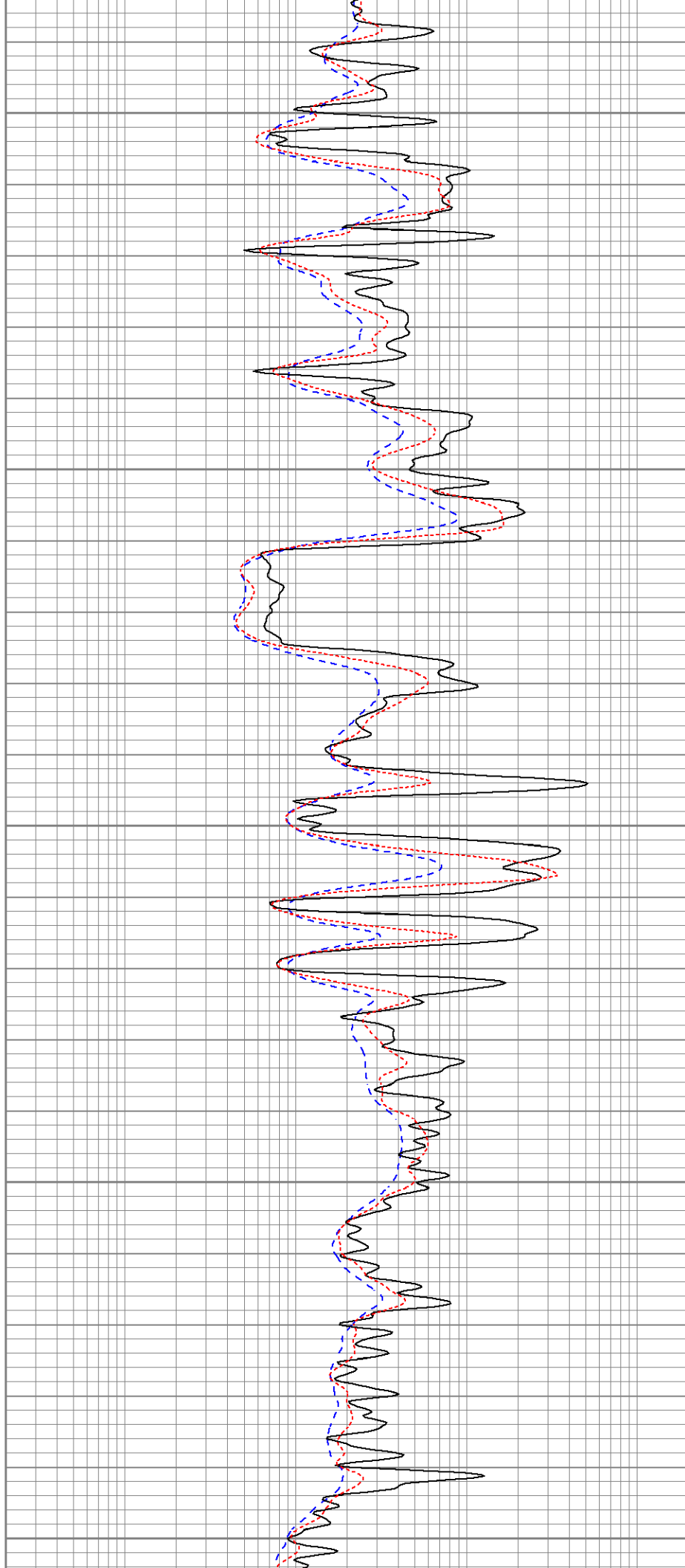
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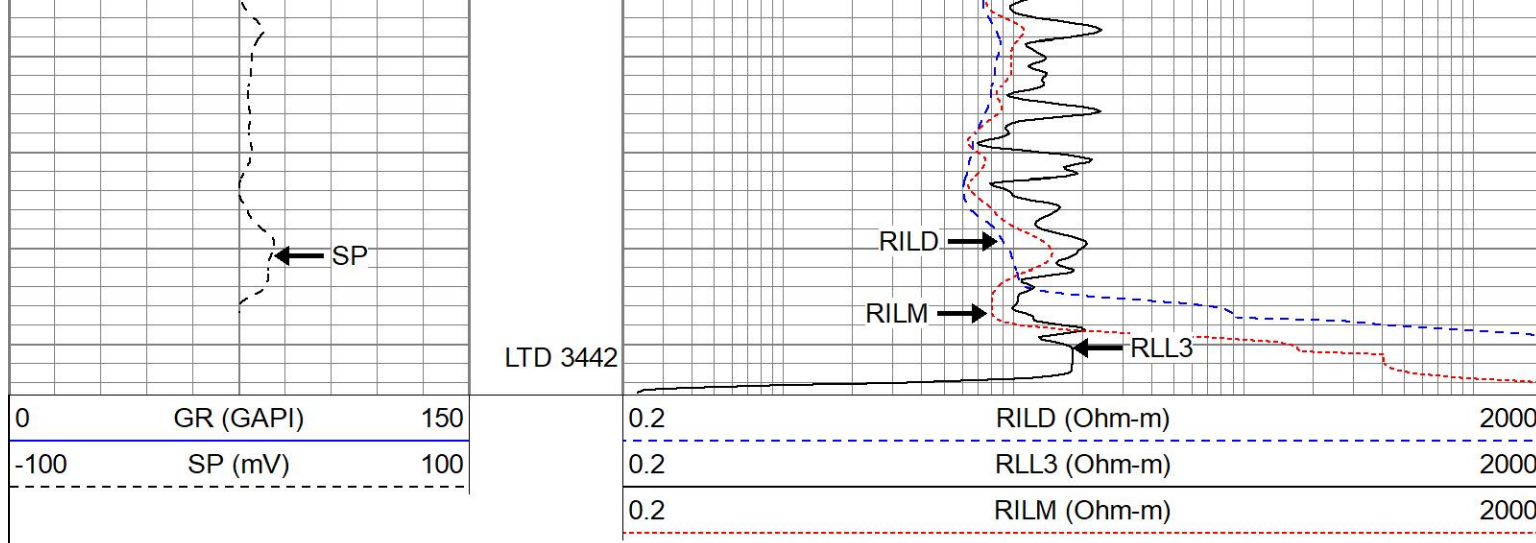
3300

3350

3400

GR

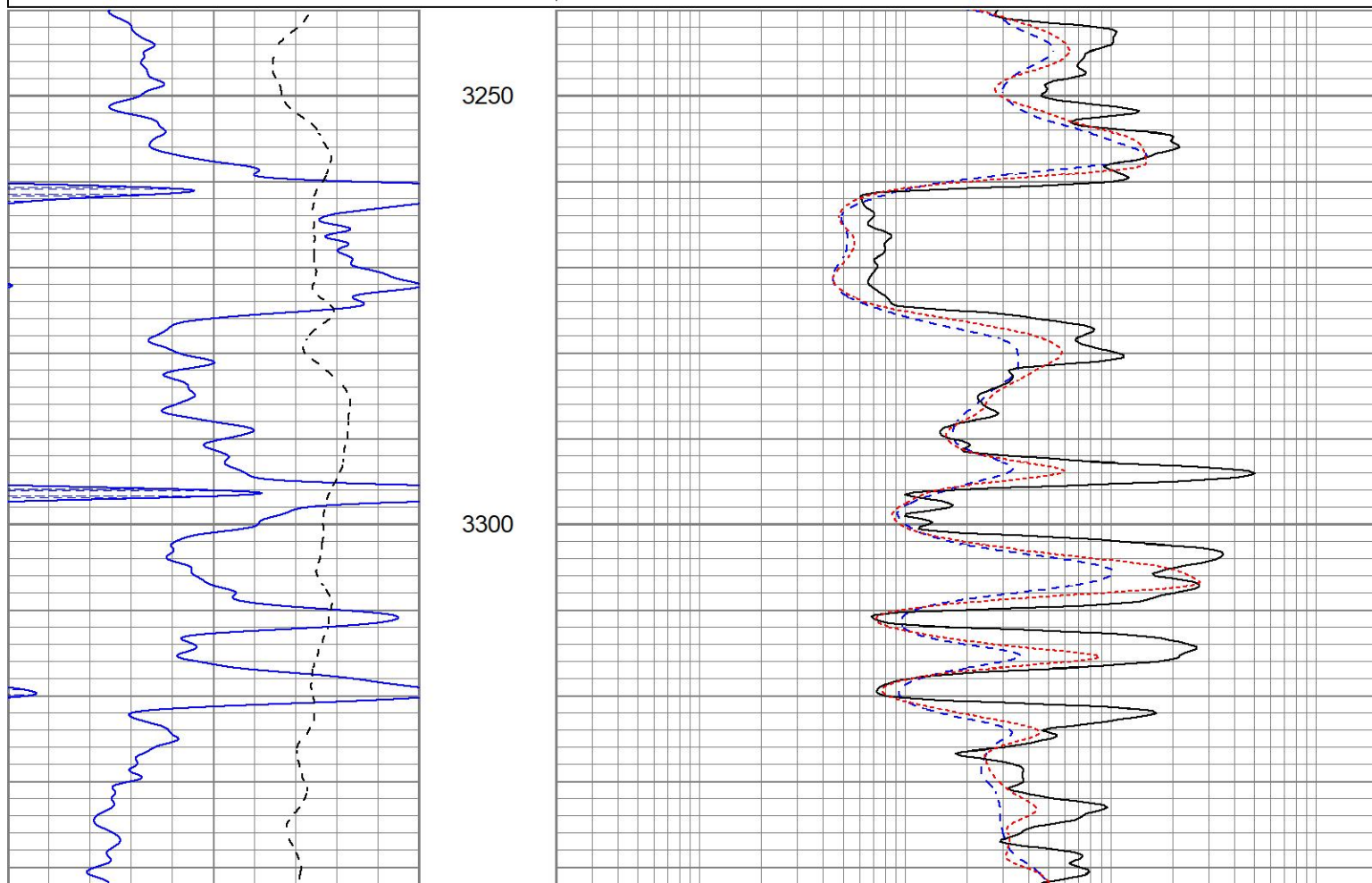


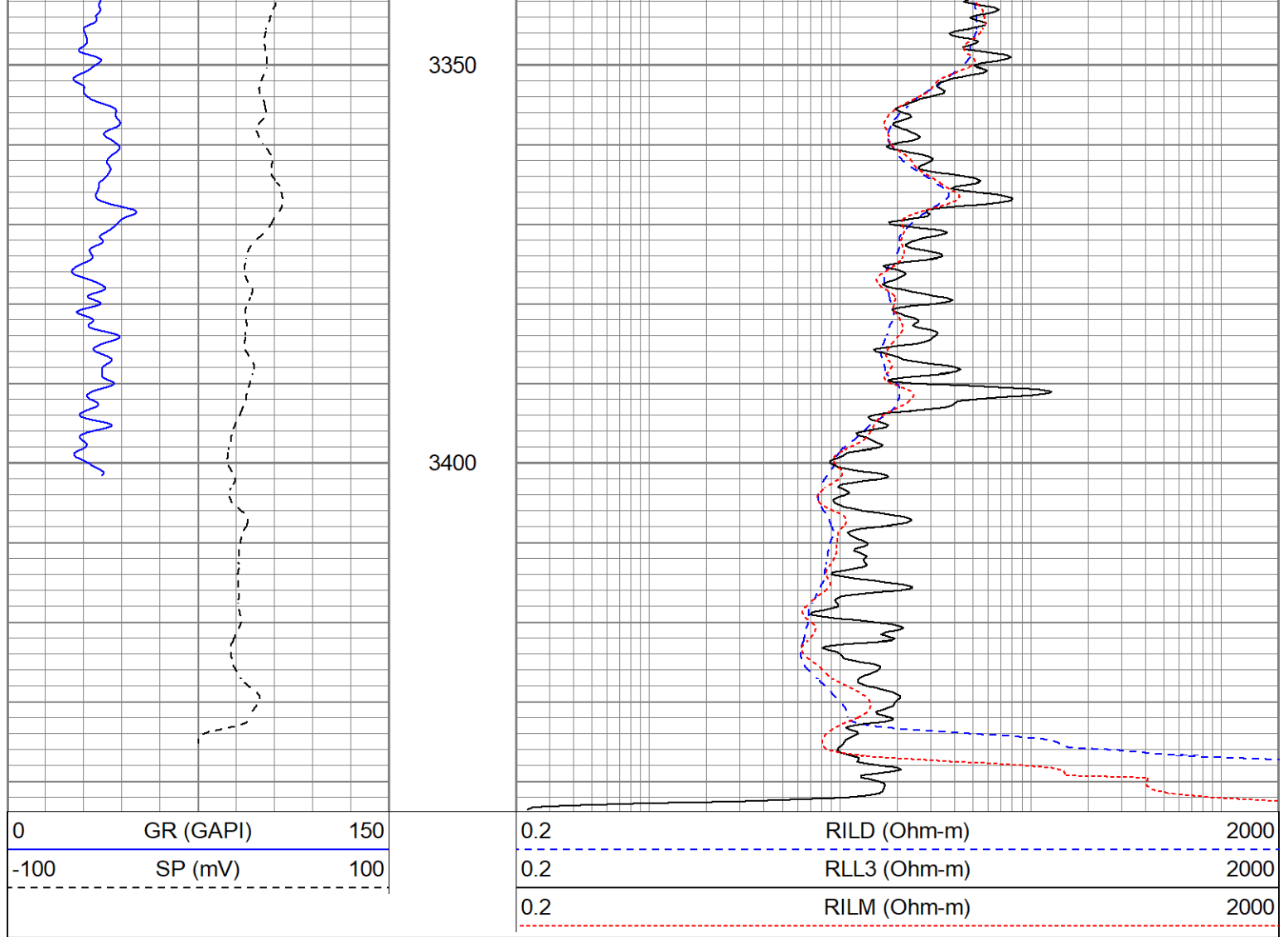


REPEAT SECTION

Database File berexcobitter#8oh.db
 Dataset Pathname pass20
 Presentation Format kdil
 Dataset Creation Fri Jan 20 22:45:00 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	berexcobitter#8oh.db								
Dataset Pathname	pass20								
Dataset Creation	Fri Jan 20 22:45:00 2023								
Dual Induction Calibration Report									
Serial-Model:		5375-G							
Surface Cal Performed:		Wed May 5 19:18:35 2021							
Downhole Cal Performed:		Wed May 5 19:19:37 2021							
After Survey Verification Performed:		Wed May 5 19:19:37 2021							
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.001	0.643	V	0.000	350.000	mmho/m	545.845	-0.739	
Medium	0.006	0.727	V	0.000	400.000	mmho/m	554.957	-3.517	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.001	0.642	V	0.000	350.000	mmho/m	545.941	-0.743	
Medium	0.006	0.727	V	0.000	550.000	mmho/m	762.787	-4.700	
Downhole Calibration									
			Readings			References			Results

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.127	350.109	mmho/m	0.003	349.942	mmho/m	1.000	-0.123
Medium	0.122	400.202	mmho/m	-0.097	400.049	mmho/m	1.000	-0.219
Shallow	2.429	0.012	V	500.000	2.000	Ohm-m	205.985	0.227

After Survey Verification								
	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.127	350.109	mmho/m	1.000	-0.123
Medium	0.000	0.000	mmho/m	0.122	400.202	mmho/m	1.000	-0.219
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	1.900	barn	5031.16	2670.10	cps
Aluminium	2.400	barn	925.14	1260.20	cps
Aluminium+Sleeve	5.000	barn	816.33	1216.63	cps
M = 0.191			B = 0.171	R = 0.787	
	Size		Reading		
Small Ring	8.00	in	8.61	V	
Large Ring	14.30	in	12.40	V	

Neutron Calibration Report								
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Serial Number:			AD5139					
Tool Model:			ADMY5139					
Performed:			(Not Performed)					
Calibrator Value:			1	NAPI				
Calibrator Reading:			1	cps				
Sensitivity:			1	NAPI/cps				

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