MICRO LOG

Company PATTERSON ENERGY, LLC.
Well ZWILLICH #2
Field LORRAINE
County ELLSWORTH State Kansas

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Well ZWILLICH #2
Field LORRAINE
County ELLSWORTH
State Kansas

Location: API # : 15 053 21380

1320' FNL & 2310' FEL

SEC 23 TWP 17S RGE 9W

Other Services
CDNL
DIL

Permanent Datum	Ground Level	Elevation	1778
Log Measured From	KB 5' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1783
D.F. 1781
G.L. 1778

Date	5/23/22		
Run Number	TWO		
Depth Driller	3570		
Depth Logger	3569		
Bottom Logged Interval	3567		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 260		
Casing Logger	260		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/65		
pH / Fluid Loss	9.5/8.4		
Source of Sample	Calculated		
Rm @ Meas. Temp	.6@70degf		
Rmf @ Meas. Temp	.45@70degf		
Rmc @ Meas. Temp	.72@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.42@100degf		
Time Circulation Stopped	1:30 a.m		
Time Logger on Bottom	4:30 a.m		
Maximum Recorded Temperature	100degf		
Equipment Number	T127		
Location	Hays, KS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	AUSTIN KLAUS		

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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 LORRAINE TO V RD EAST 1.5 MILES SOUTH INTO.

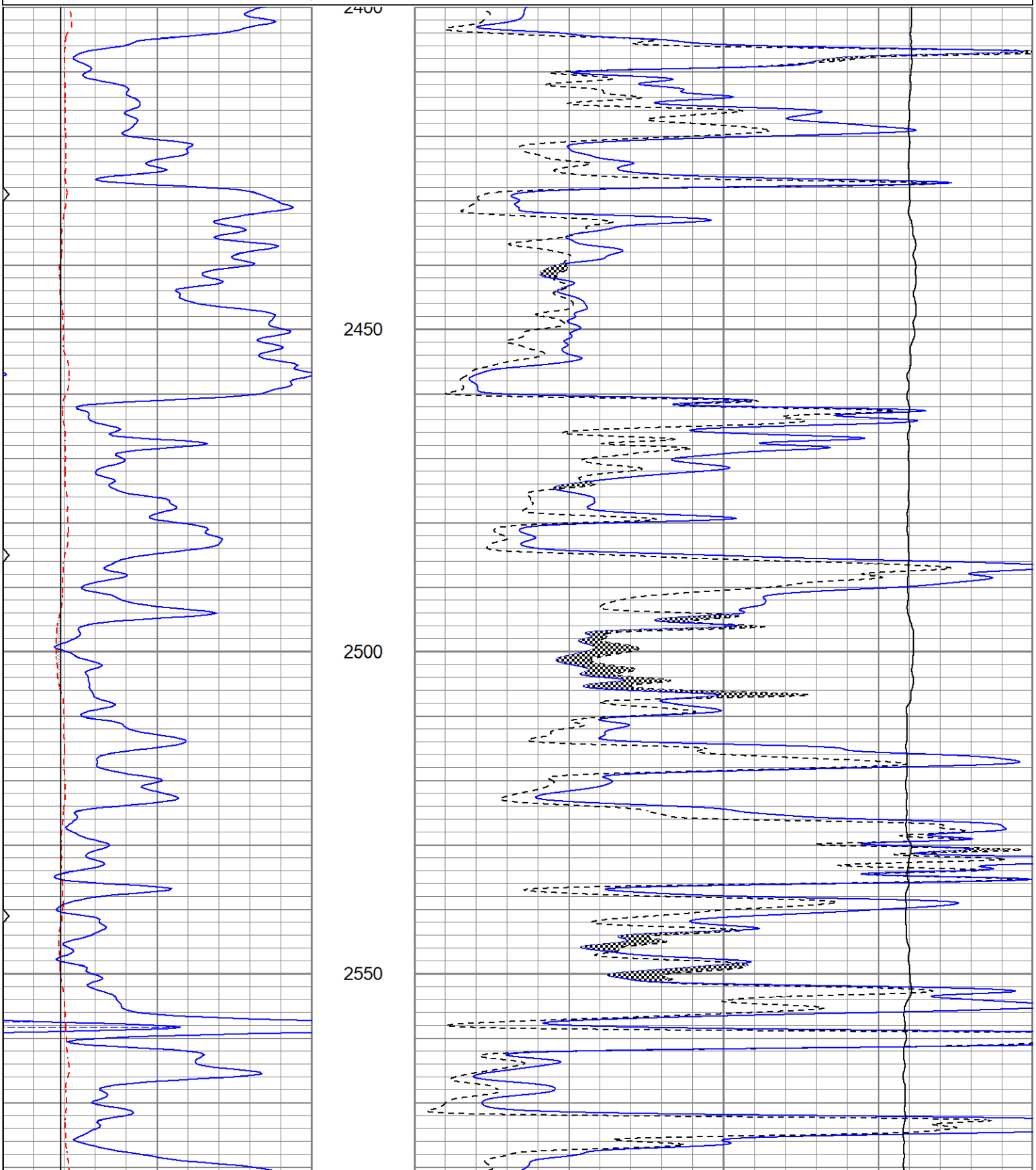
Thanks for using Gemini Wireline LLC
785-625-1182

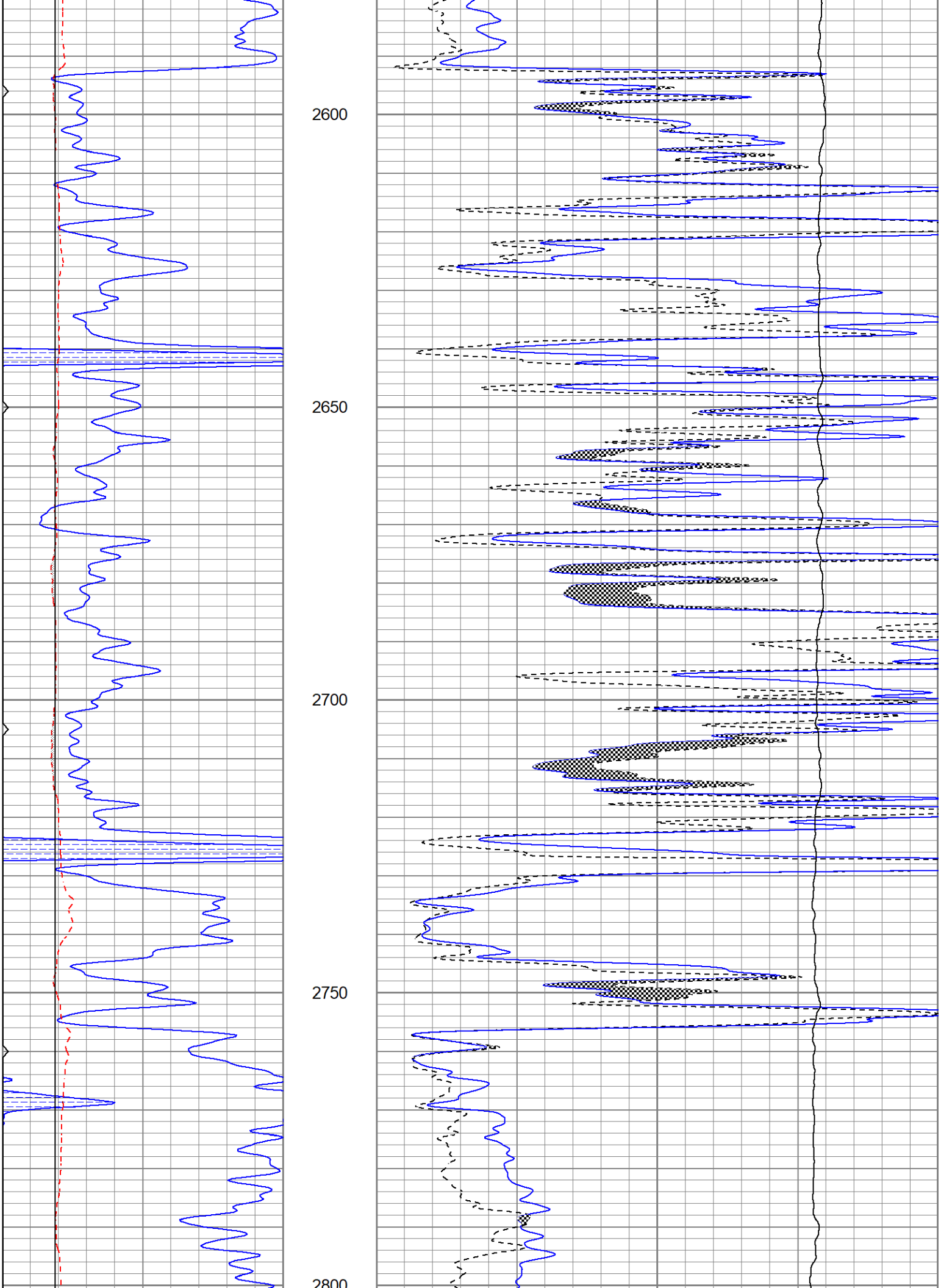
MAIN PASS

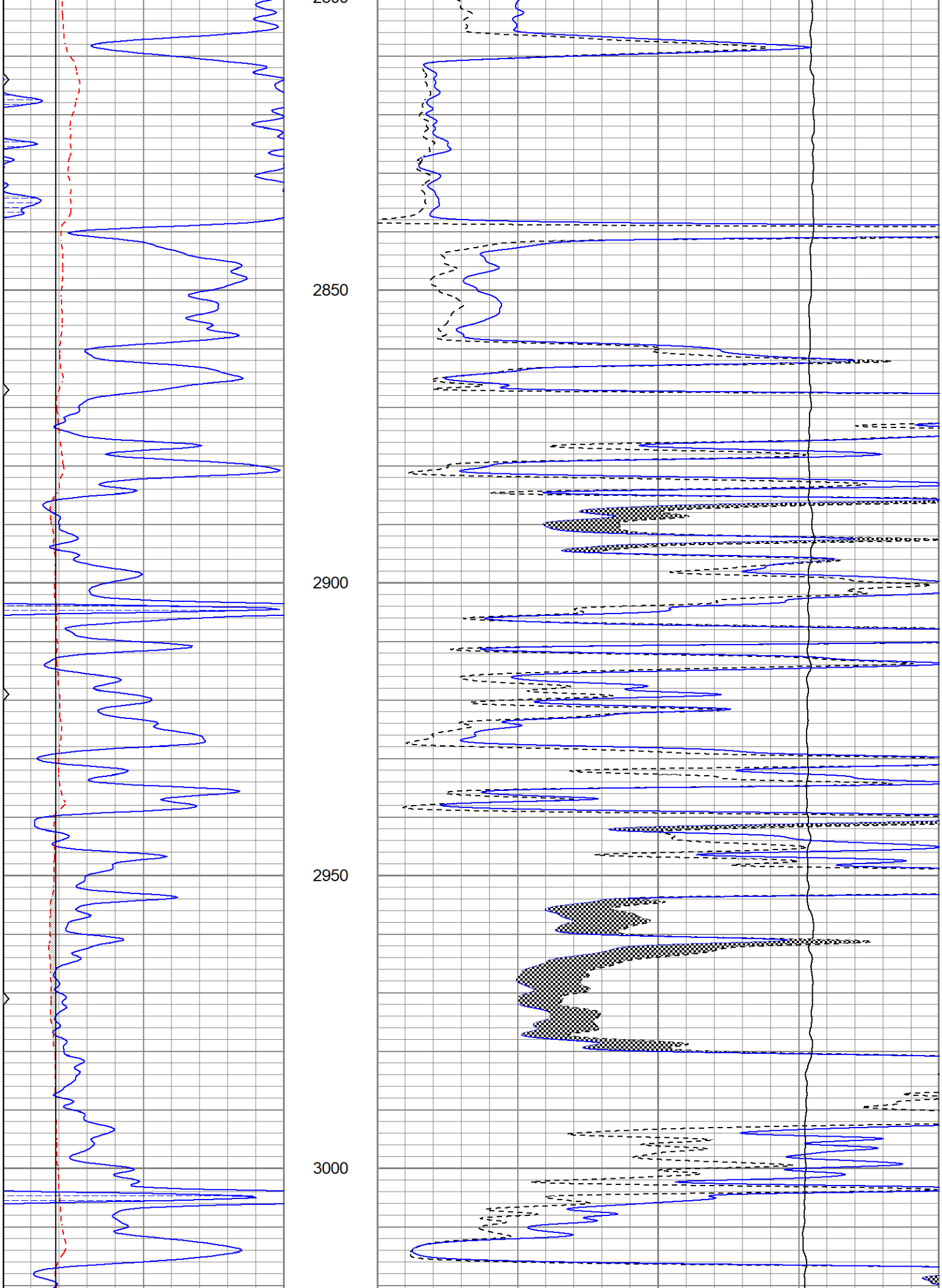
Database File	pezwillich#2oh.db
Dataset Pathname	pass8.1
Presentation Format	kml
Dataset Creation	Mon May 23 07:39:25 2022
Charted by	Depth in Feet scaled 1:240

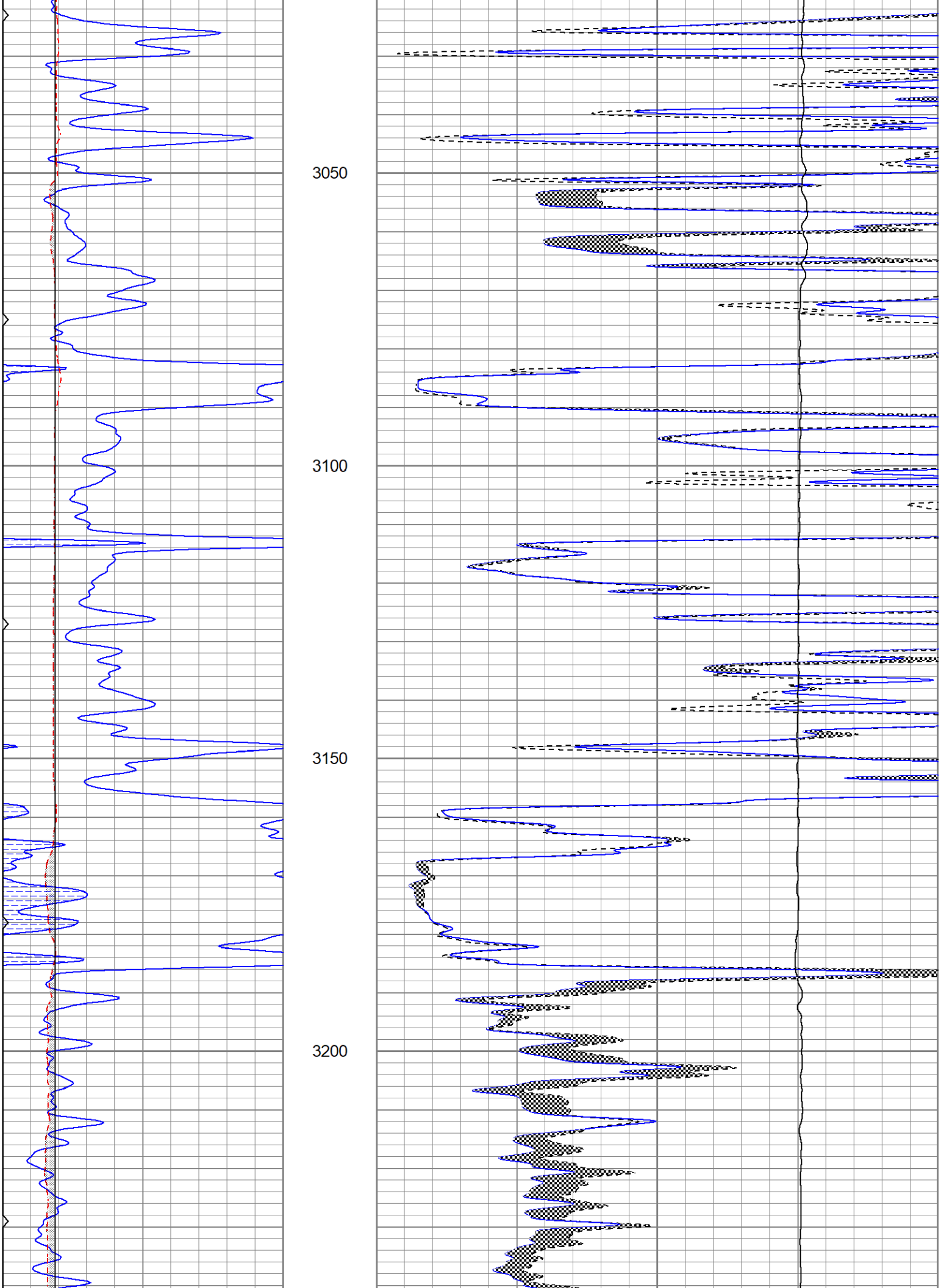
0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

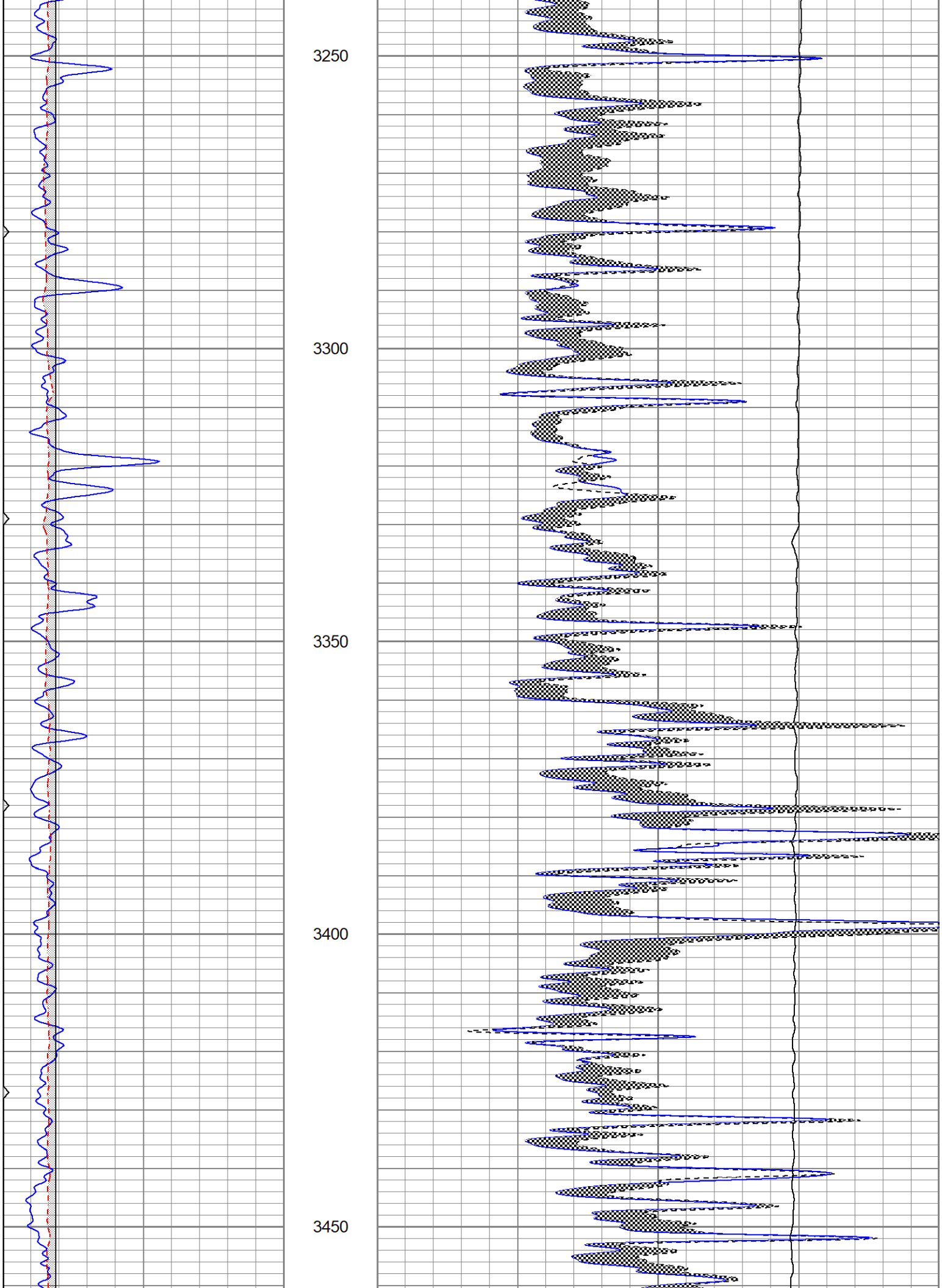
0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

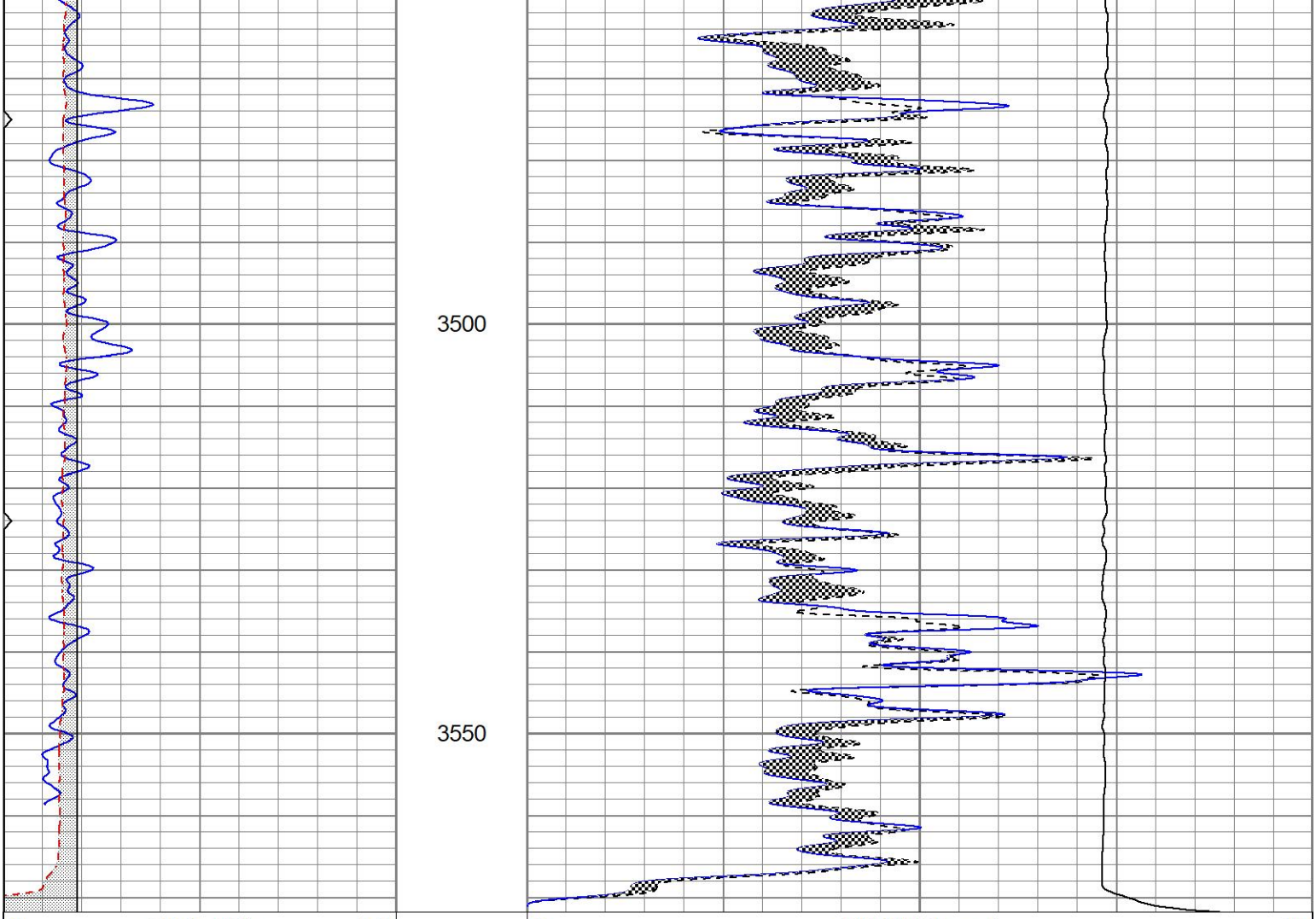



2600
2650
2700
2750
2800


2850
2900
2950
3000


3050
3100
3150
3200


3250
3300
3350
3400
3450



0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

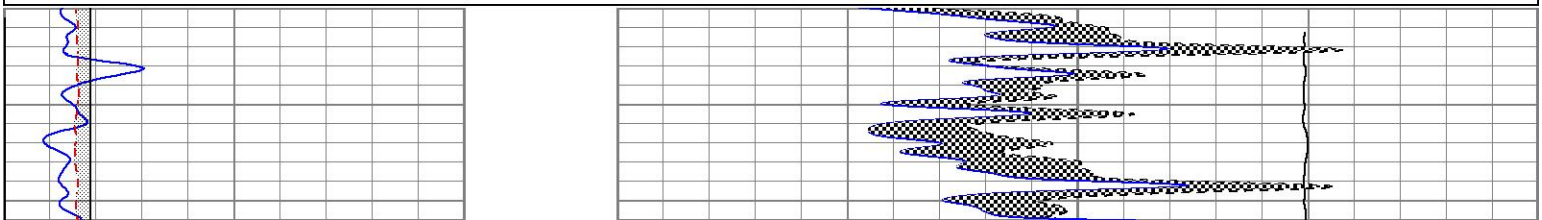
0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

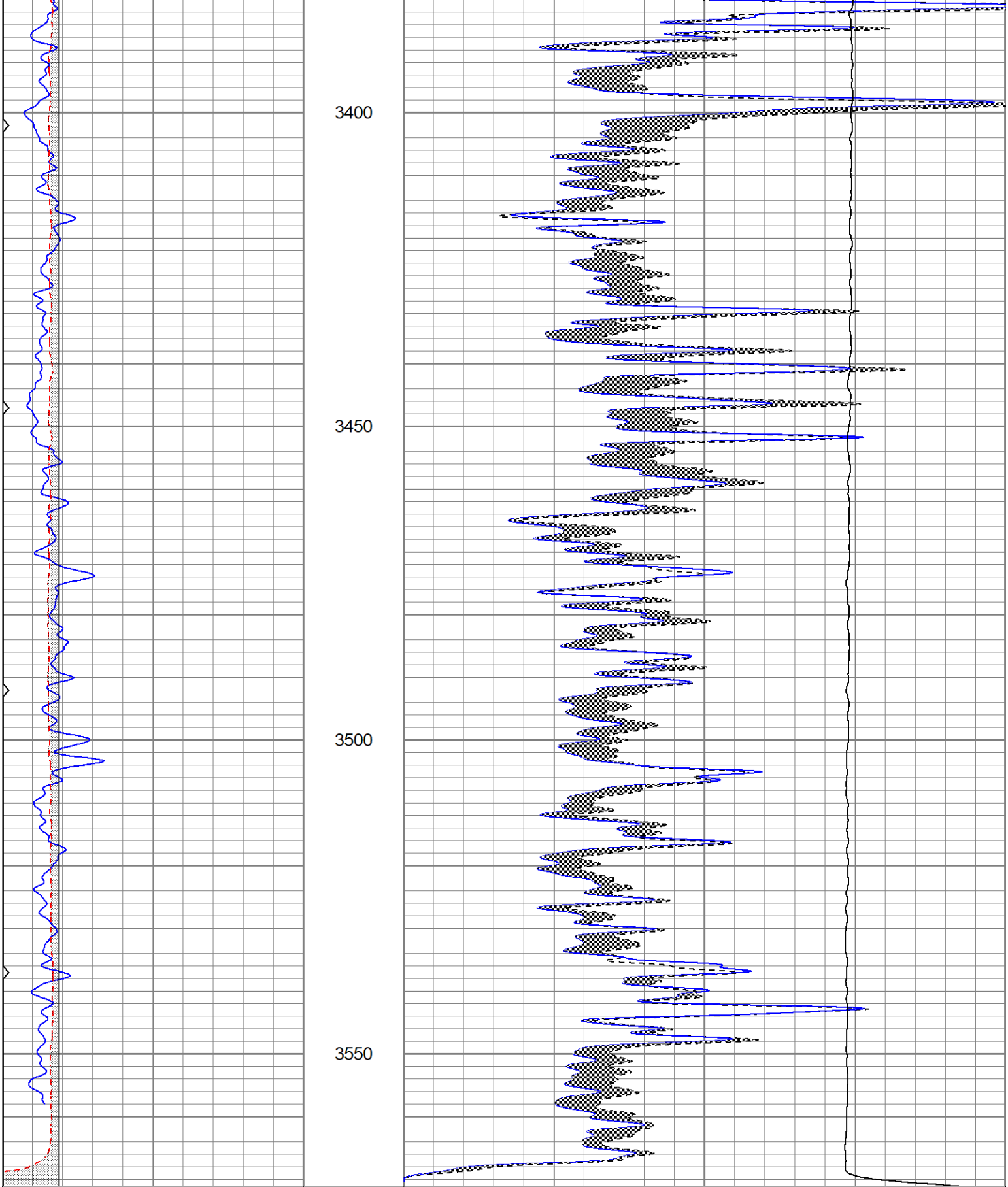
REPEAT SECTION

Database File	pezwillich#2oh.db
Dataset Pathname	pass7.1
Presentation Format	kml
Dataset Creation	Mon May 23 07:41:03 2022
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0





0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

Calibration Report

Database File	pezwillich#2oh.db
Dataset Pathname	pass7.1
Dataset Creation	Mon May 23 07:41:03 2022

Microlog Calibration Report

Serial-Model:	9151-Gerhart
Performed:	Mon May 23 07:06:19 2022

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0006	0.4773	V	0.0000	10.0000	Ohm-m	20.9778	-0.0135
Inverse	0.0011	0.6146	V	0.0000	10.0000	Ohm-m	16.3002	-0.0186
Caliper	0.9057	2.2211	V	8.4000	15.0000	in	5.0175	3.9055

Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Sat Sep 4 22:48:39 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps