MICRO LOG

Company PATTERSON ENERGY, LLC.
Well HABIGER #1
Field BLOOMER
County RICE
State Kansas

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Location: API # : 15 159 22882

980' FNL & 2257' FEL

SEC 5 TWP 18S RGE 10W

Other Services
DIL
CDNL

Elevation
K.B. 1772
D.F. 1770
G.L. 1764

Permanent Datum	Ground Level	Elevation	1764
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

Date	4/24/22		
Run Number	One		
Depth Driller	3270		
Depth Logger	3274		
Bottom Logged Interval	3272		
Top Log Interval	2700		
Casing Driller	8 5/8" @ 394'		
Casing Logger	394		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.1/53		
pH / Fluid Loss	10.0/8.8		
Source of Sample	Calculated		
Rm @ Meas. Temp	.8@70degf		
Rmf @ Meas. Temp	.6@70degf		
Rmc @ Meas. Temp	.96@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.57@98degf		
Time Circulation Stopped	5:00 a.m		
Time Logger on Bottom	7:30 a.m		
Maximum Recorded Temperature	98degf		
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

CLAFLIN EAST 4 MILES, SOUTH INTO.

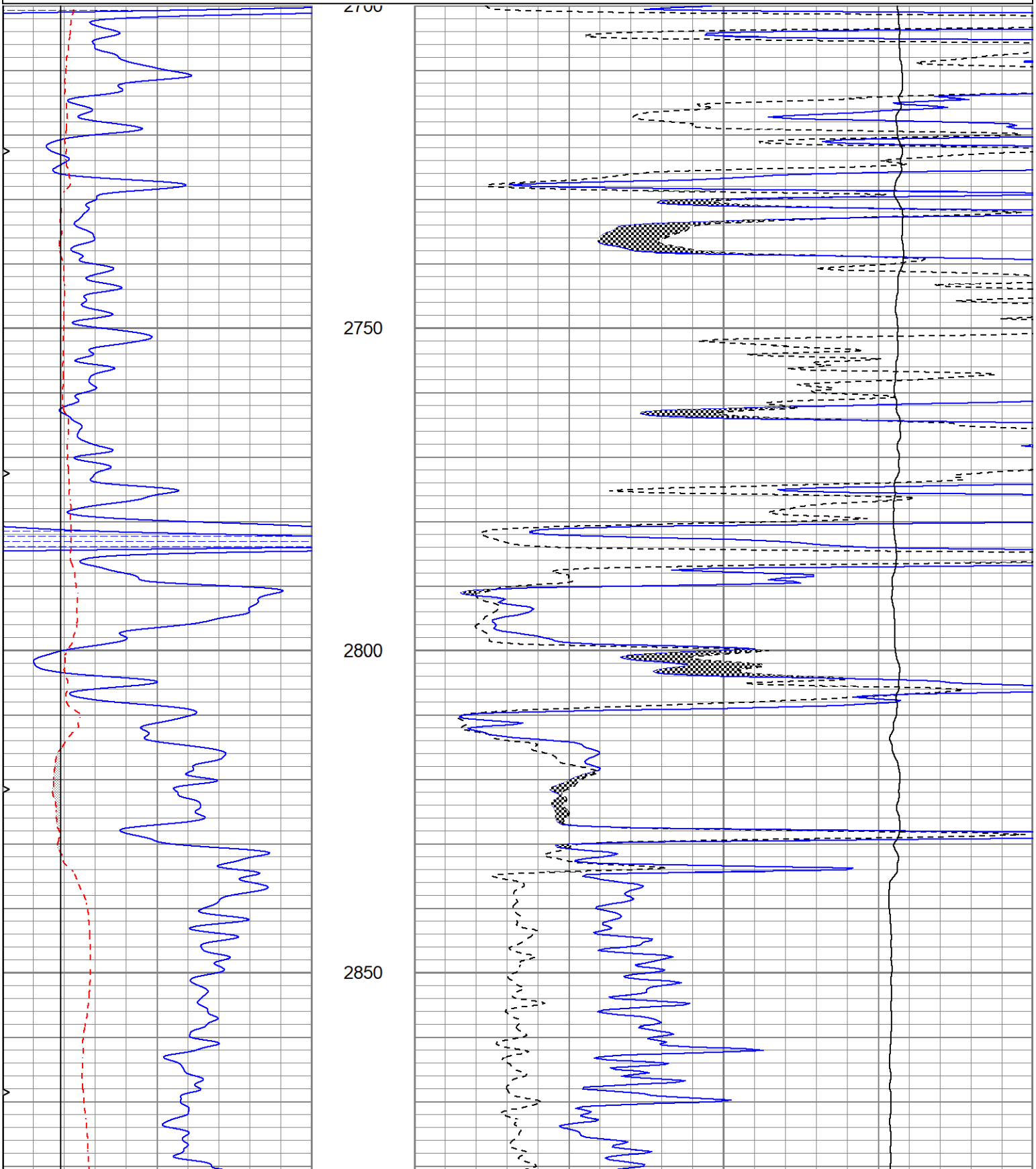
Thanks for using Gemini Wireline LLC
785-625-1182

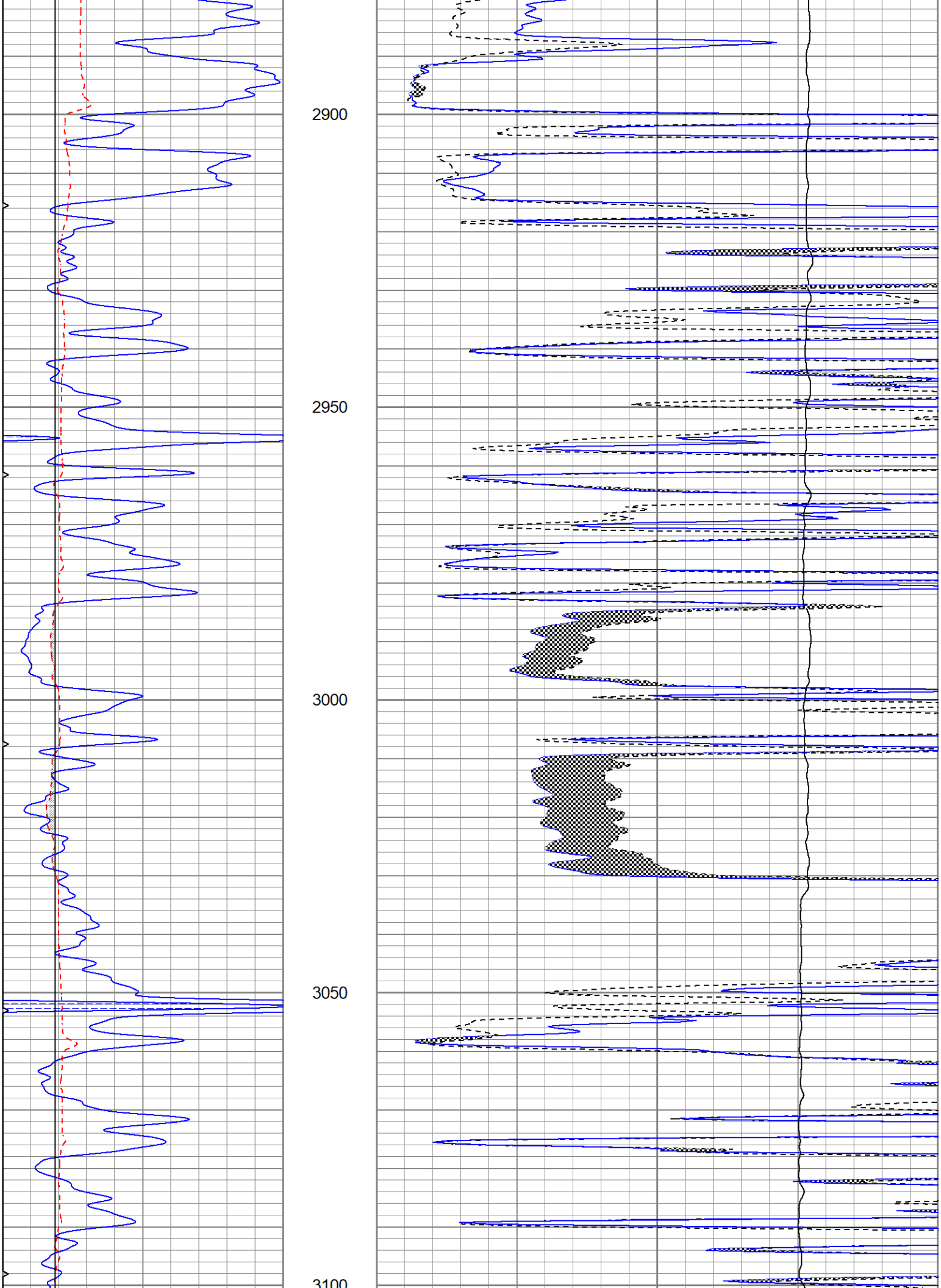
MAIN PASS

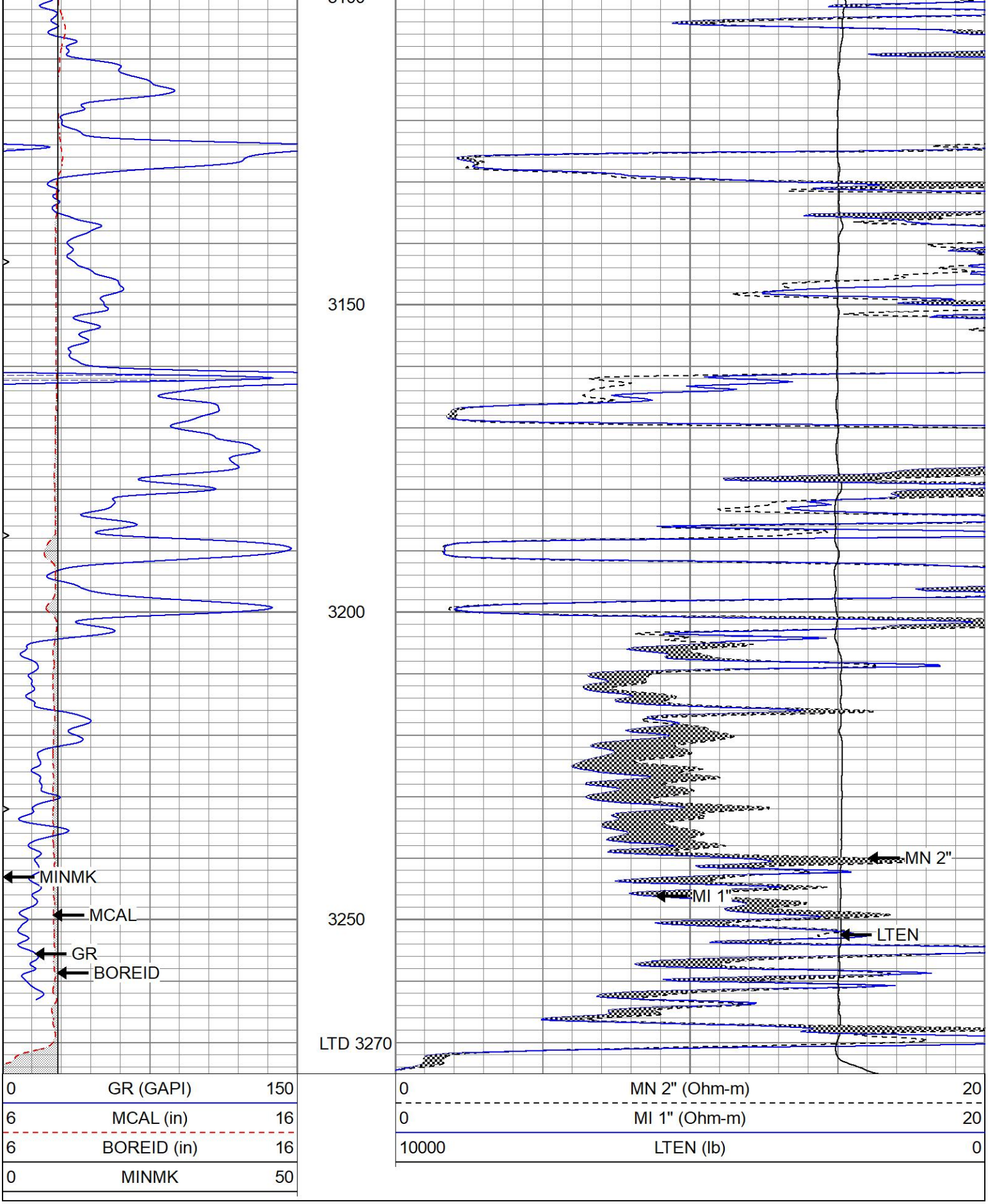
Database File	pehabiger#1oh.db
Dataset Pathname	pass4.1
Presentation Format	kml
Dataset Creation	Sun Apr 24 09:05:24 2022
Charted by	Depth in Feet scaled 1:240

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




2900
2950
3000
3050
3100



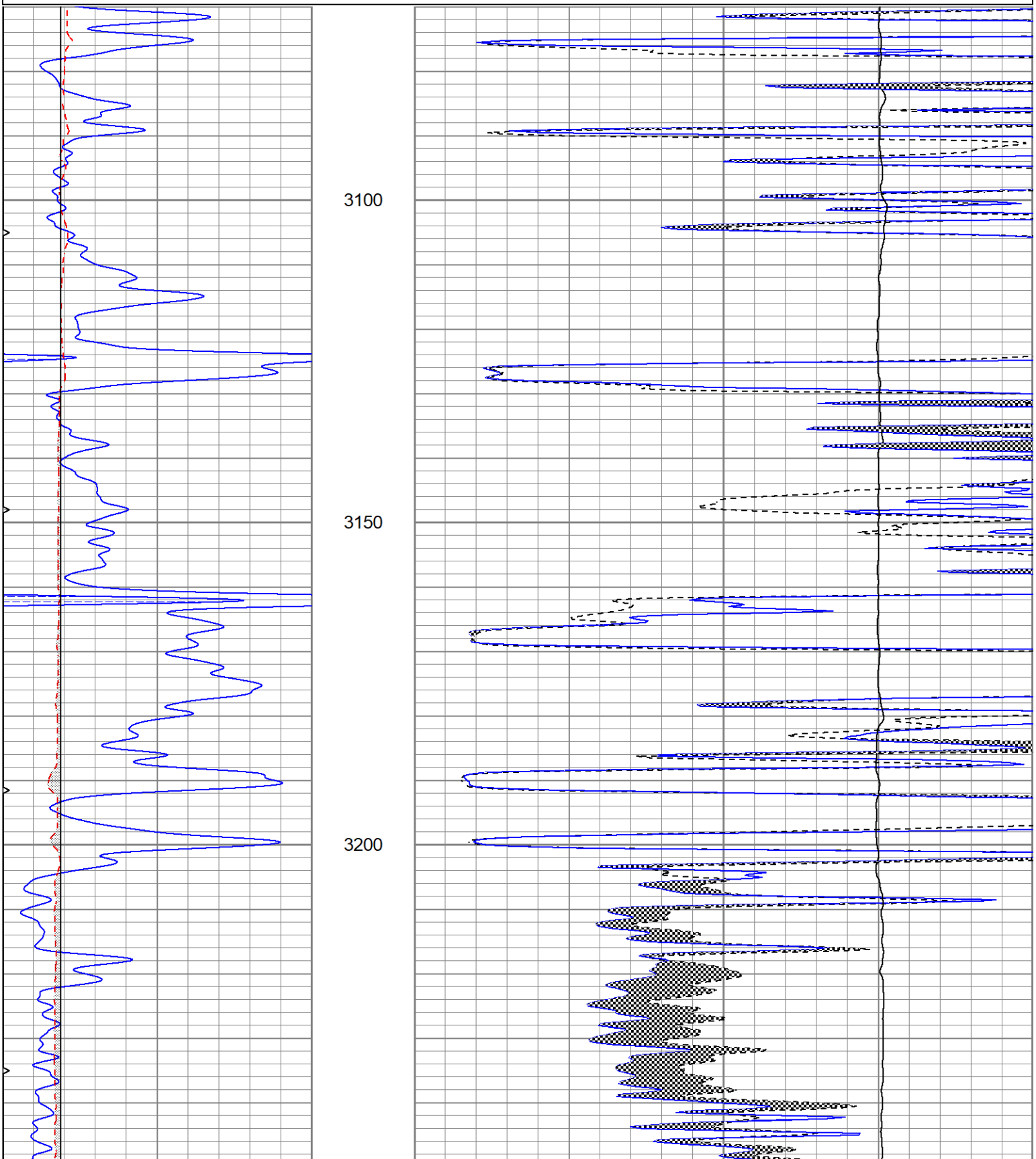
GEMINI WIRELINE

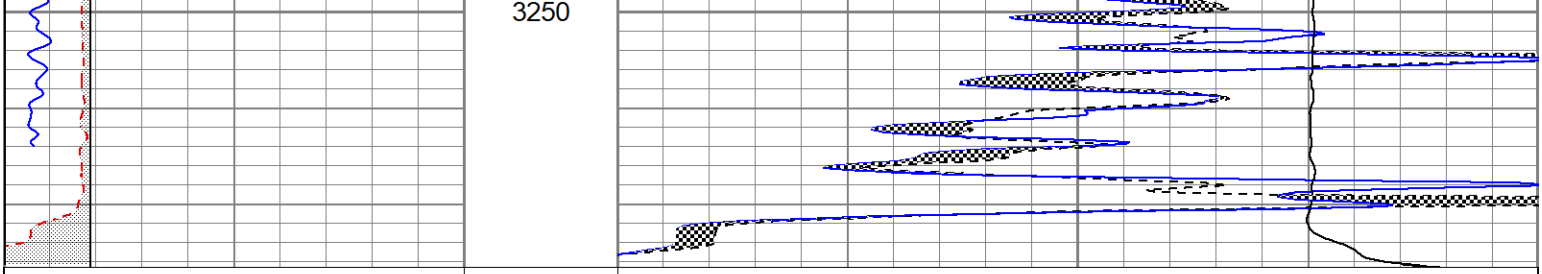
REPEAT SECTION

Database File	pehabiger#1oh.db
Dataset Pathname	pass3.1
Presentation Format	kml
Dataset Creation	Sun Apr 24 09:04:18 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 pehabiger#1oh.db
Dataset Pathname pass3.1
Dataset Creation Sun Apr 24 09:04:18 2022

Microlog Calibration Report

Serial-Model: 9151-Gerhart
Performed: Sun Apr 24 08:39:45 2022

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0147	0.4838	V	0.0000	10.0000	Ohm-m	21.3207	-0.3144
Inverse	0.0137	0.6249	V	0.0000	10.0000	Ohm-m	16.3619	-0.2242
Caliper	0.9057	2.2211	V	8.4000	15.0000	in	5.0175	2.6056

Temperature Calibration Report

Serial Number: 111
Tool Model: ADTS1
Performed: (Not Performed)

	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: Thu Feb 17 11:11:25 2022

	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:	111	
Tool Model:	ADTS1	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.6000	GAPI/cps