



MICRO LOG

Company PETROLEUM DEVELOPMENT COMPANY

Well ENGLER FARMS #1-14

Field

County KEARNEY State KANSAS

Location: API #: 15-093-21981-0000

1943' FNL & 906' FEL

SEC 14 TWP 22S RGE 35W

Permanent Datum GROUND LEVEL Elevation 3020
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
DIL/SON
Elevation
K.B. 3031
D.F. 3029
G.L. 3020

Date 4/19/21

Run Number TWO

Depth Driller 5000

Depth Logger 5002

Bottom Logged Interval 4984

Top Log Interval 3700

Casing Driller 8 5/8" @ 1838'

Casing Logger 1828'

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD CHLORIDES 4700 PPM

Density / Viscosity 9.3/56

pH / Fluid Loss 10.5/7.6

Source of Sample FLOWLINE

Rm @ Meas. Temp .90 @ 60F

Rmf @ Meas. Temp .67 @ 60F

Rmc @ Meas. Temp 1.08 @ 60F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .43 @ 126F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom

Maximum Recorded Temperature 125F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By KEN LEBLANC

COLE HINDS

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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

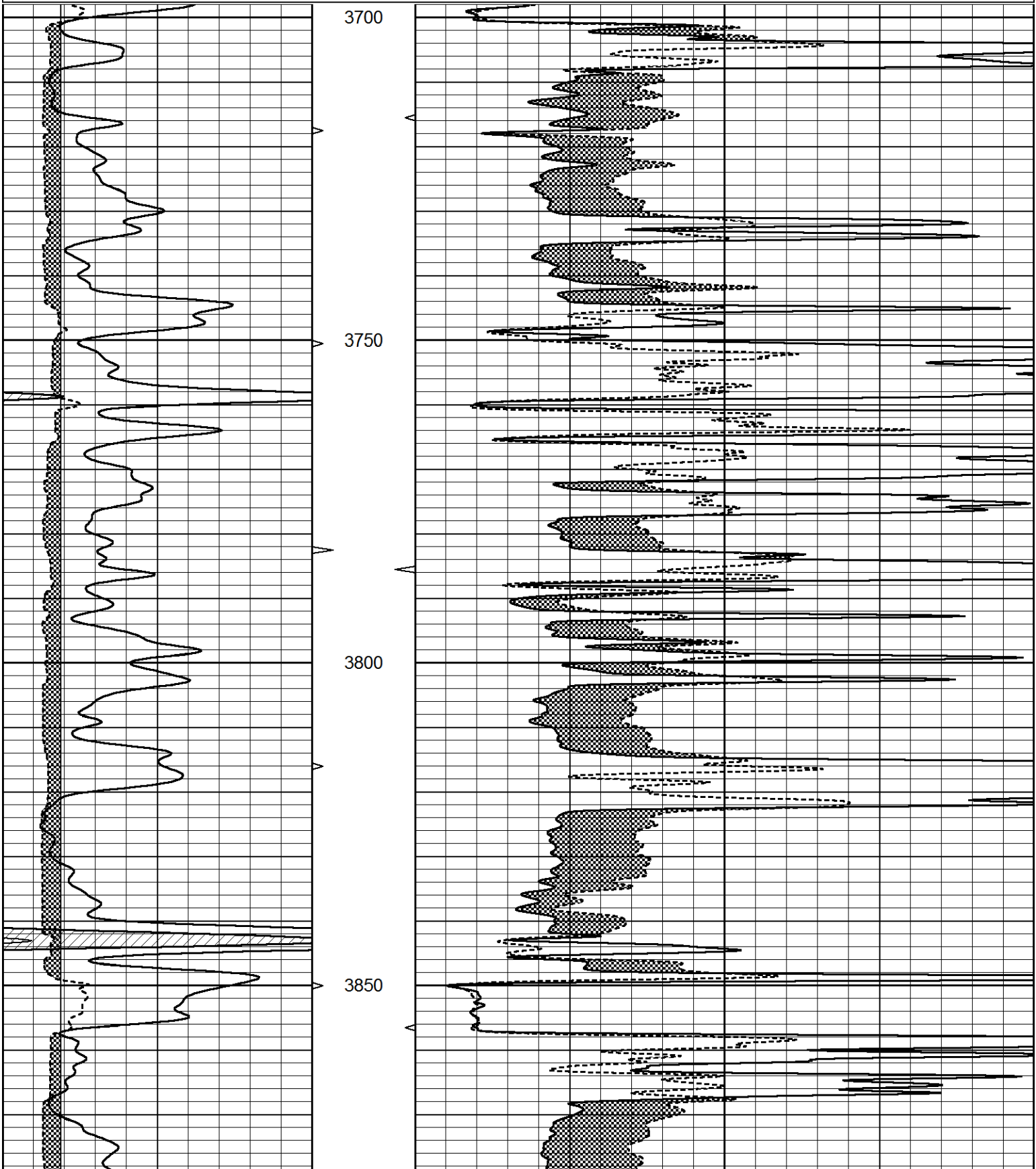
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GARDEN CITY, KS. - WEST ON HWY 50 TO COUNTY LINE - 1 WEST TO AA RD.
9 1/2 NORTH - WEST INTO

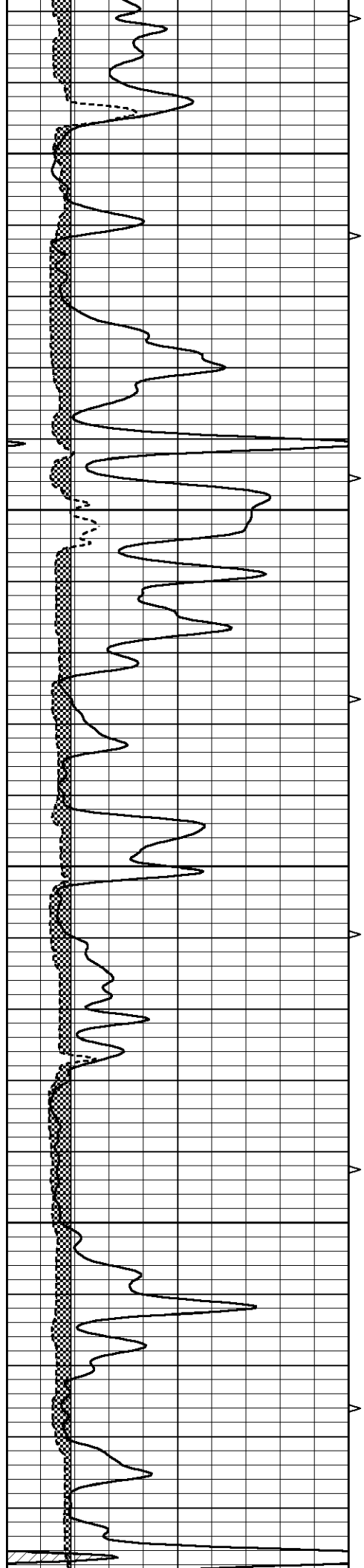


MAIN SECTION

Database File	5214pe.db
Dataset Pathname	pass7.1
Presentation Format	_micro
Dataset Creation	Mon Apr 19 20:46:36 2021
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0 0	MEL2.0 (Ohm-m)	40
			TBHV			
			0 (ft3)	10		



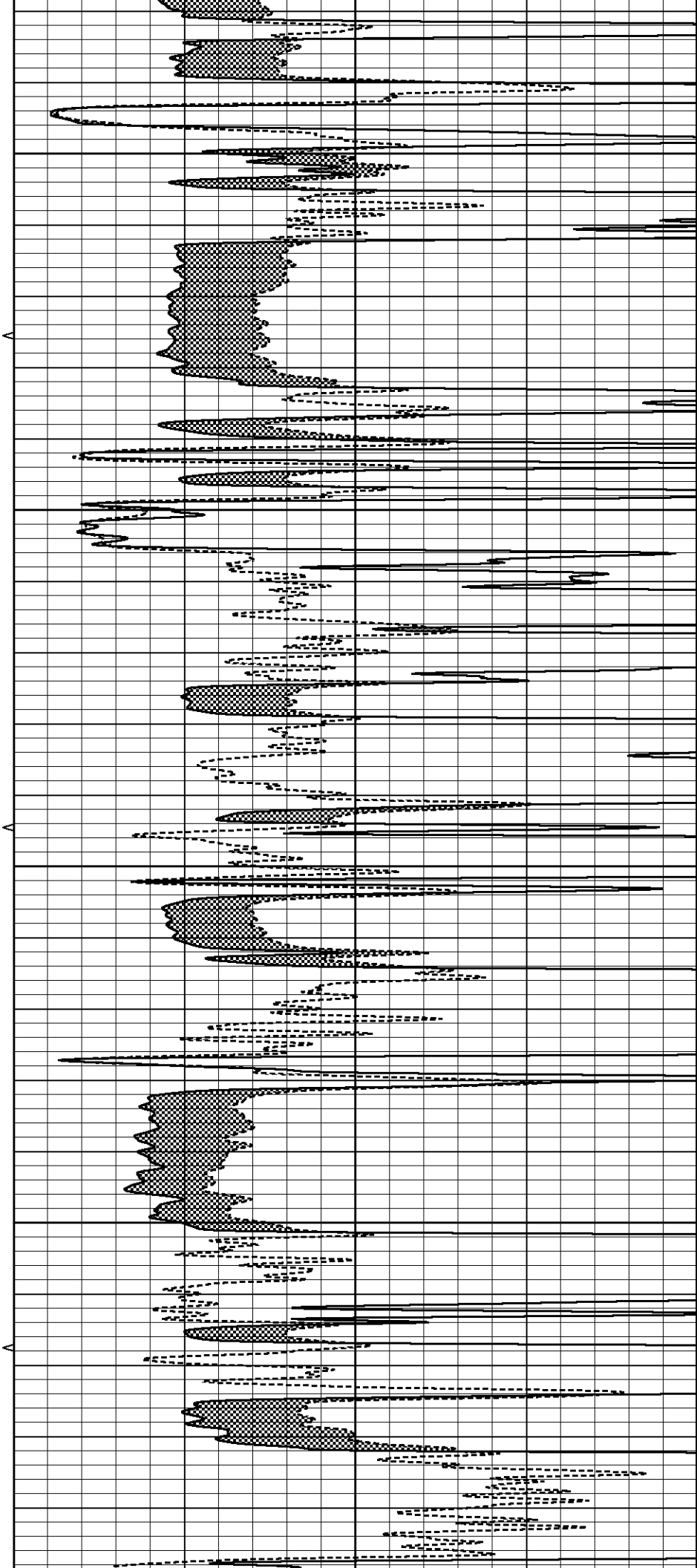


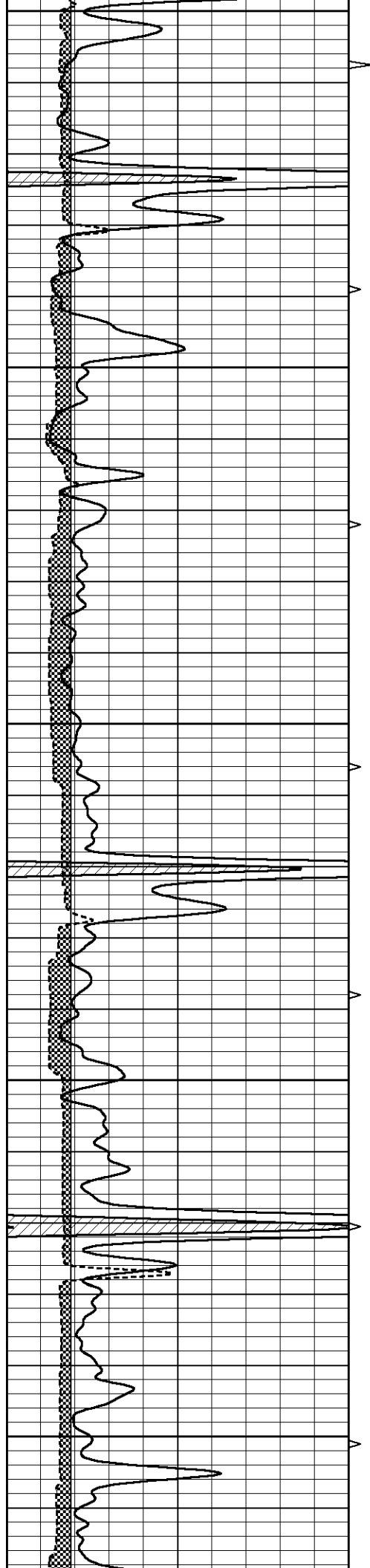
3900

3950

4000

4050





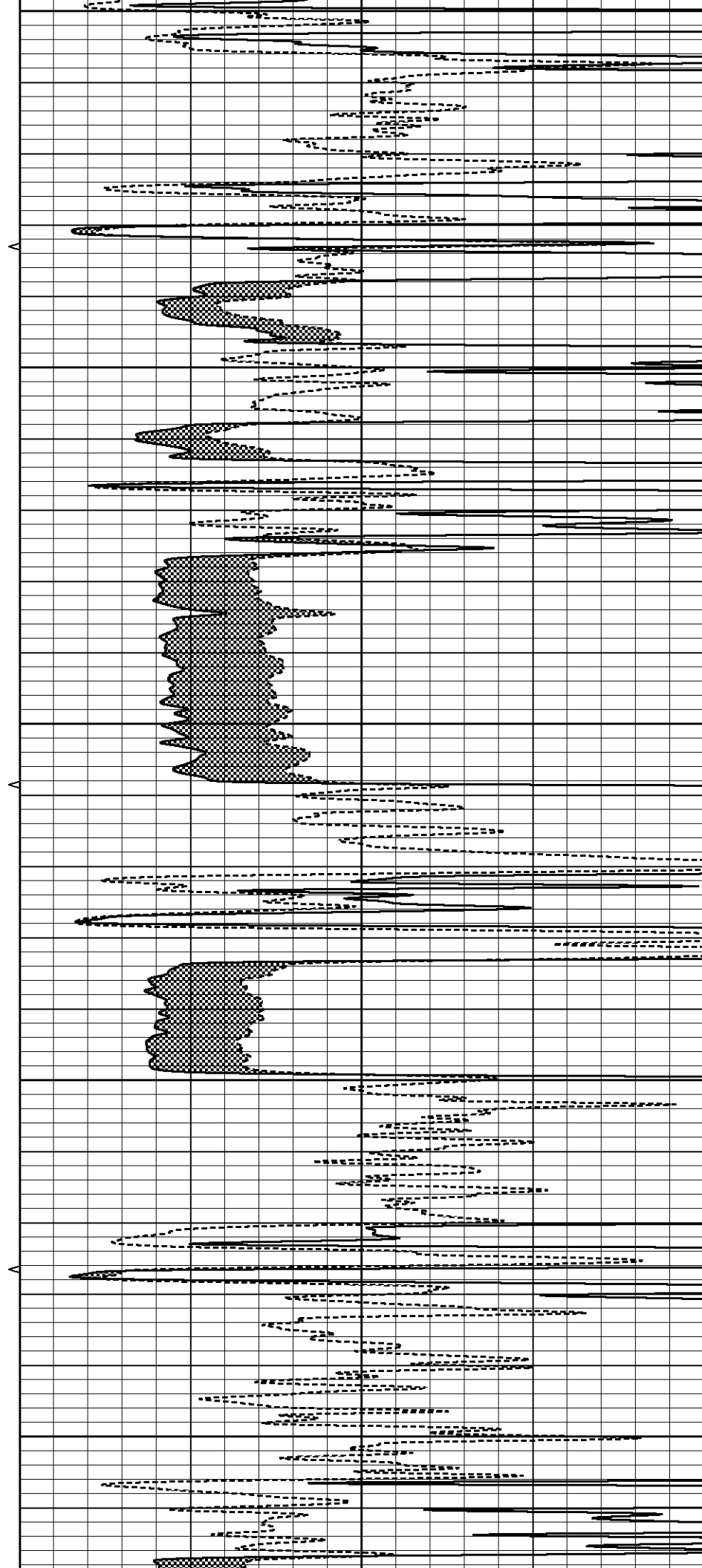
4100

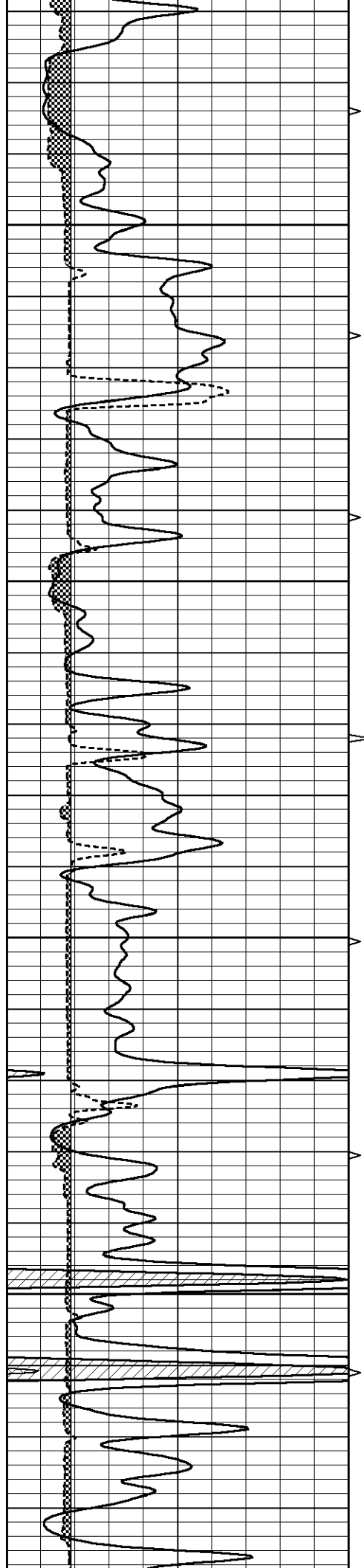
4150

4200

4250

4300



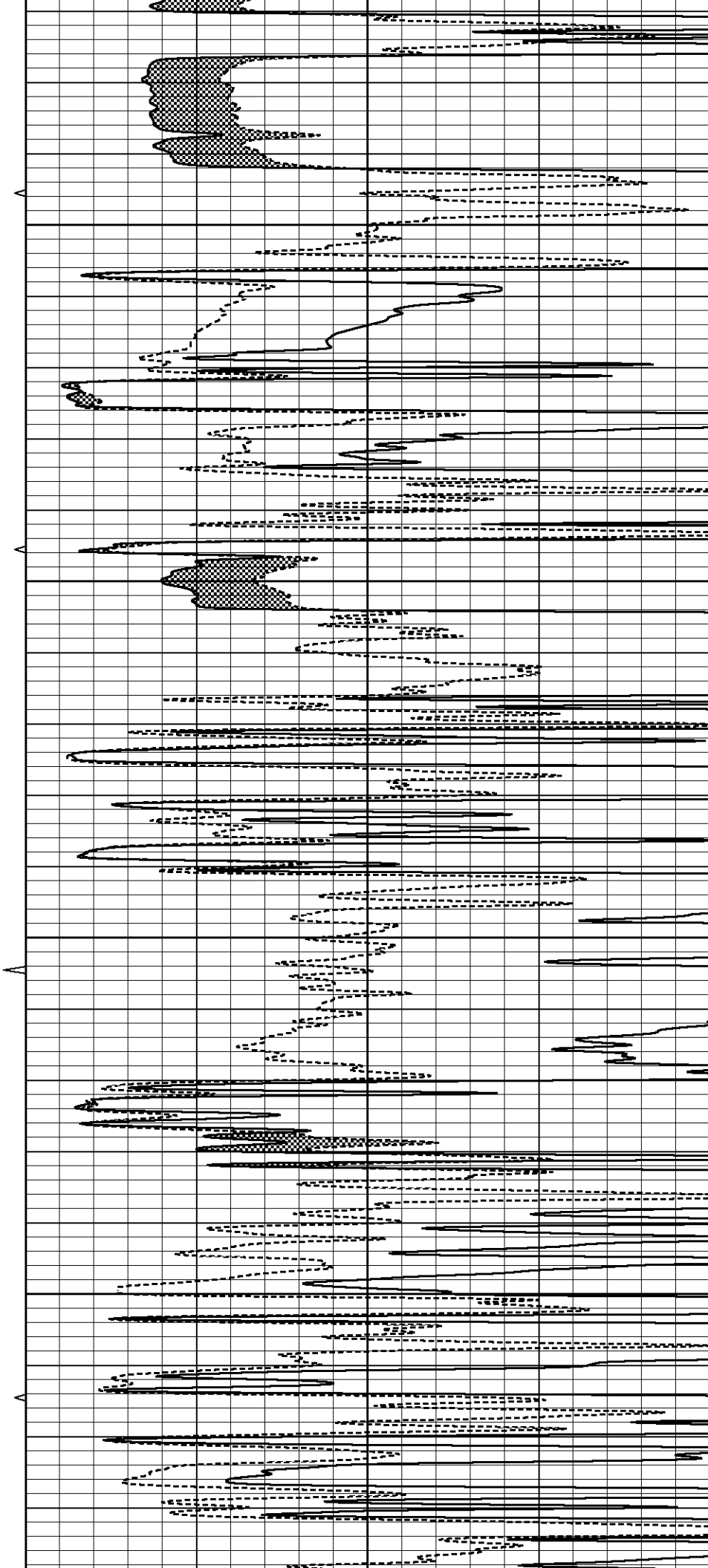


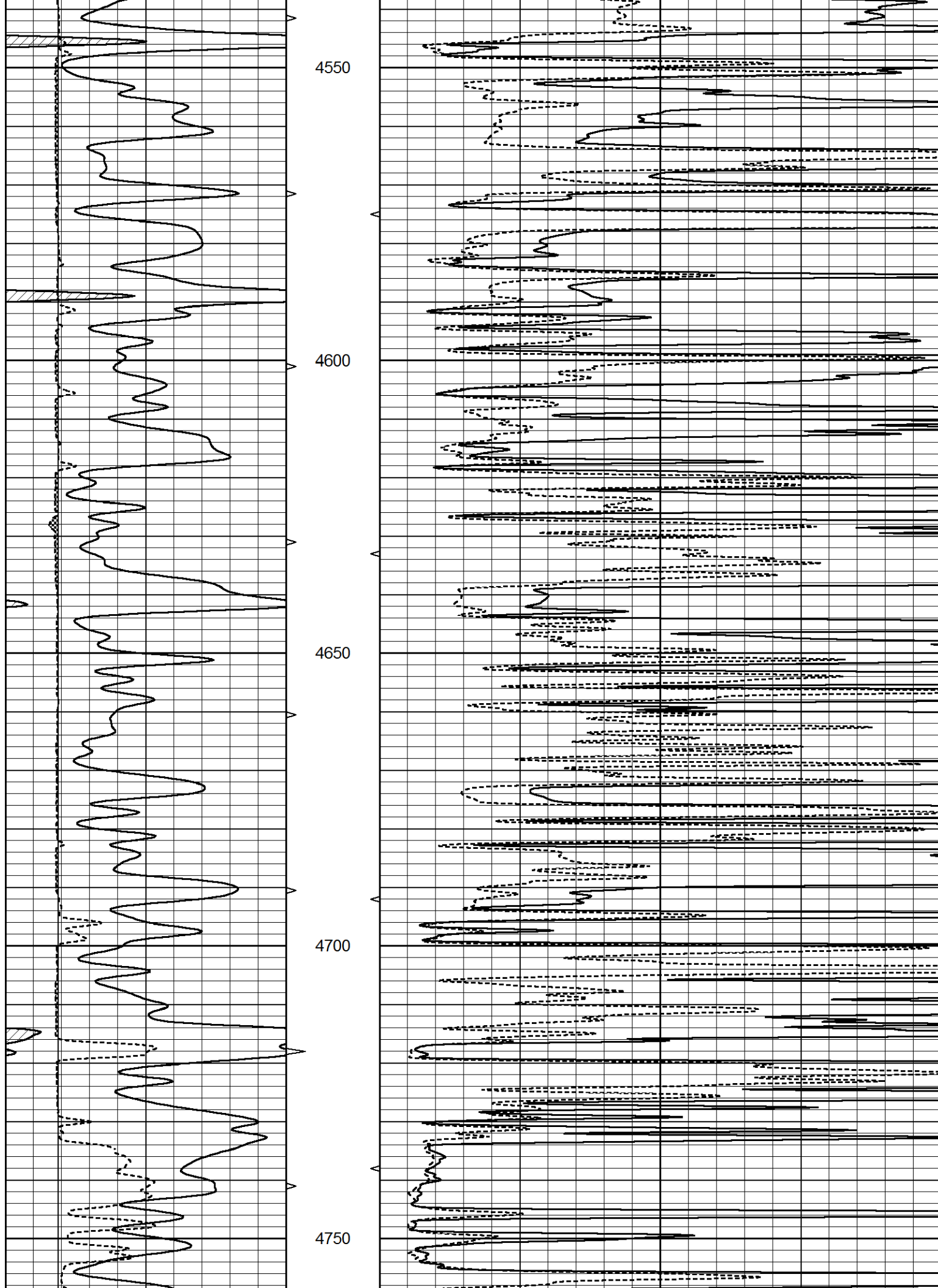
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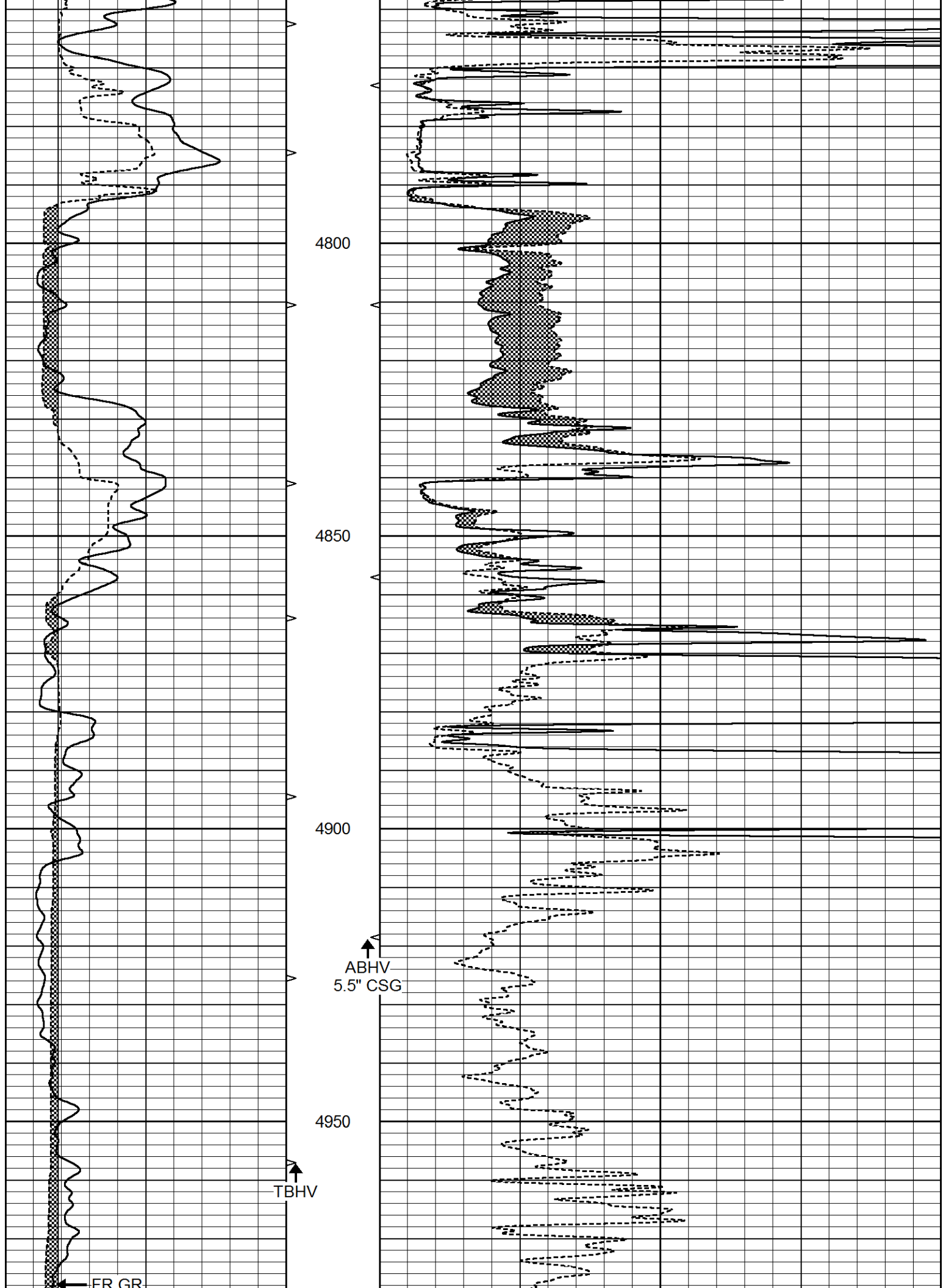
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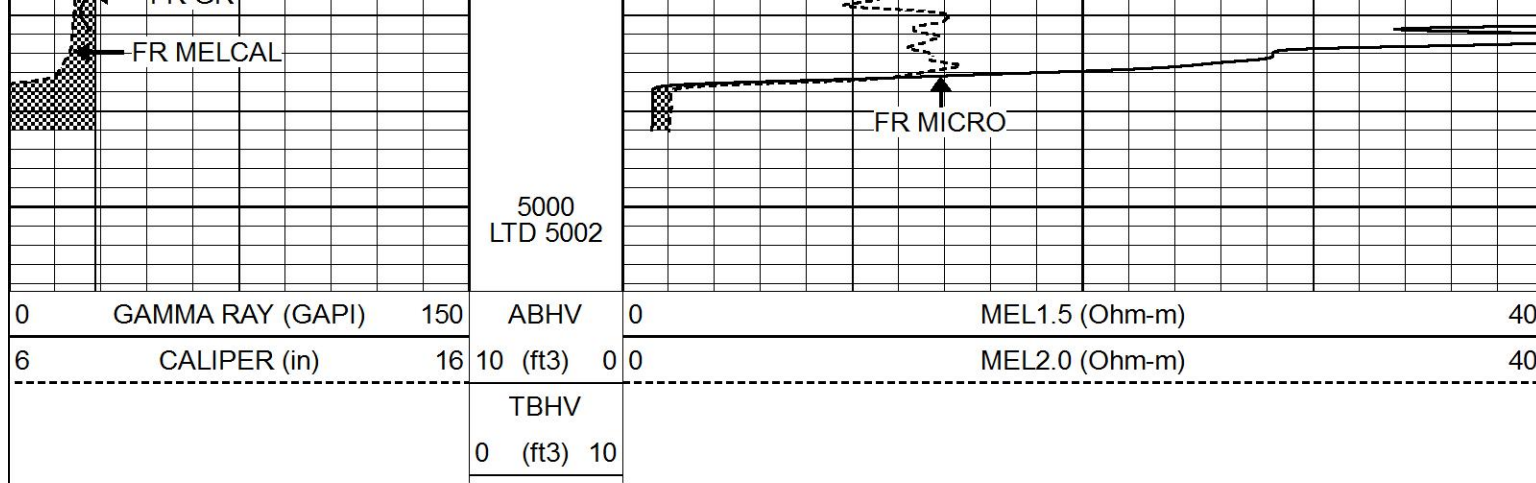
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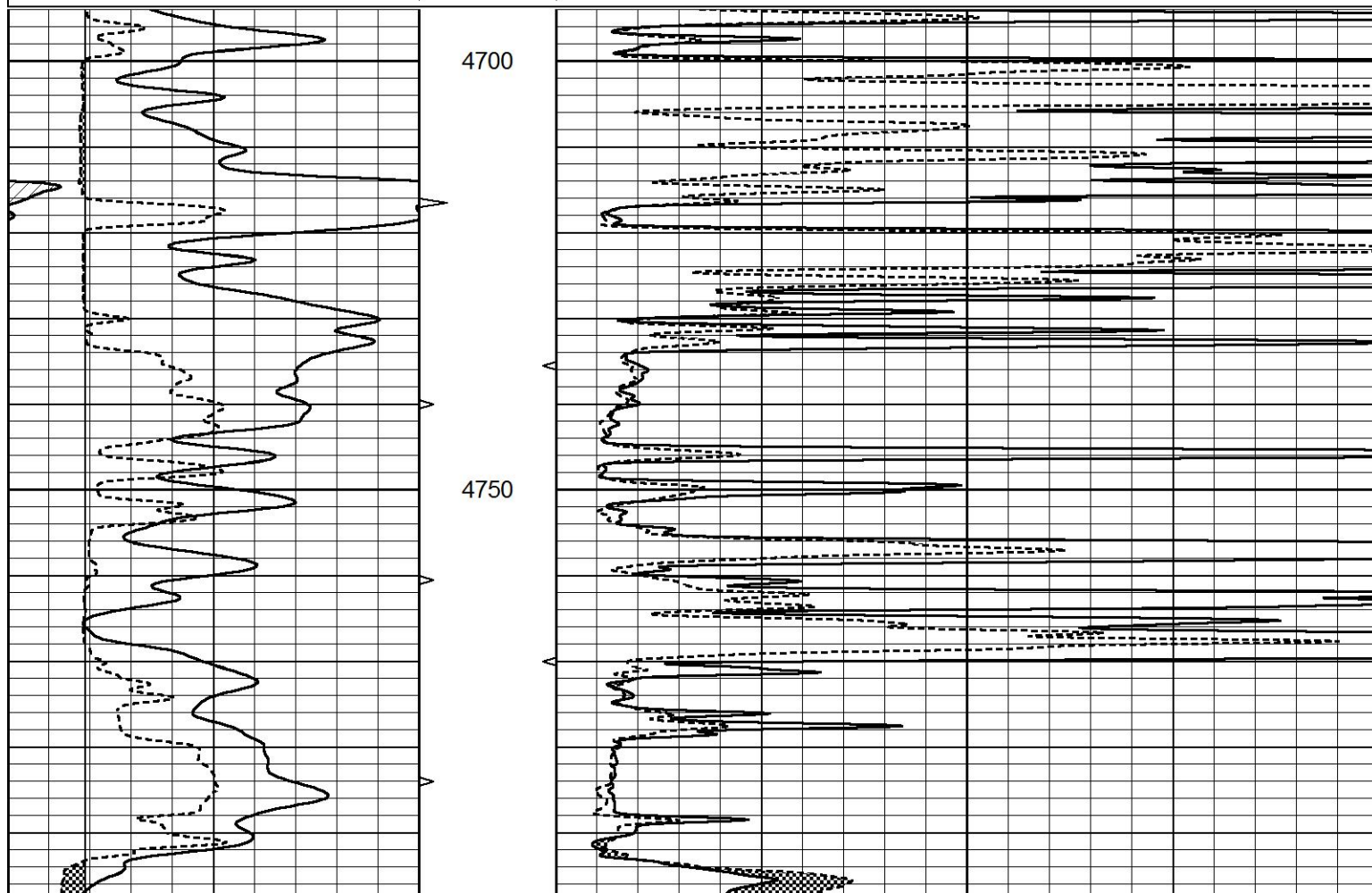
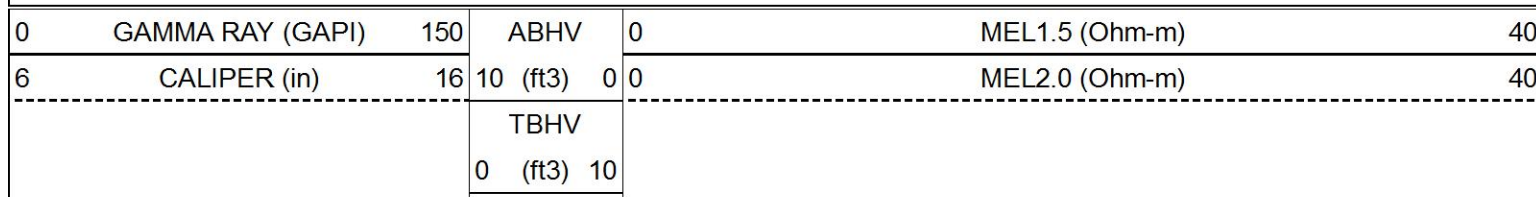


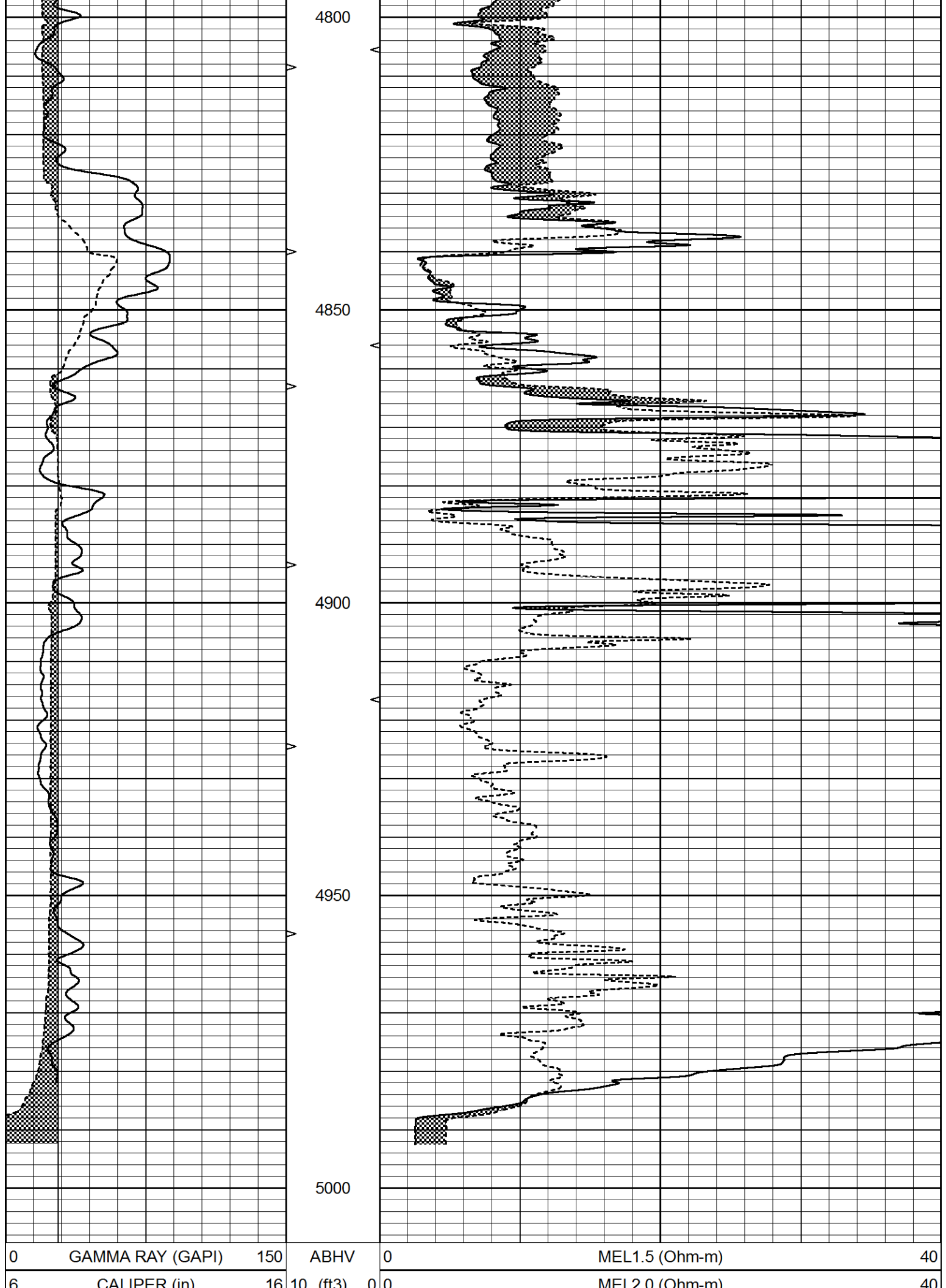




REPEAT SECTION

Database File 5214pe.db
 Dataset Pathname pass6.1
 Presentation Format _micro
 Dataset Creation Mon Apr 19 20:37:18 2021
 Charted by Depth in Feet scaled 1:240





GAPEL (in)	10	10 (in)	0	MEELS (Ohm-in)	10
		TBHV			
		0 (ft3)	10		

Calibration Report						
Database File	5214pe.db					
Dataset Pathname	pass6.1					
Dataset Creation	Mon Apr 19 20:37:18 2021					
MICRO_USR Calibration Report						
Serial Number:	070910					
Tool Model:	ProbeL					
Performed:	Thu Apr 01 18:44:00 2021					
Caliper Calibration:	Gain=7.389		Offset=3.045			
References	Low Cal		High Cal			
Readings	8.000		14.000			
	0.671		1.483			
1.5" Calibration:	Gain=50.000		Offset=-0.567			
References	Low Cal		High Cal			
Readings	0.000		20.000			
	0.004		1.335			
2" Calibration:	Gain=85.000		Offset=-1.700			
References	Low Cal		High Cal			
Readings	0.000		20.000			
	0.004		1.029			
Microlog Calibration Report						
Serial-Model:	070910-ProbeL					
Performed:	(Not Performed)					
	Readings		References		Results	
	Zero	Cal	Zero	Cal	m	b
Normal	0.0000	1.0000	V	0.0000	1.0000	0.0000
Inverse	0.0000	1.0000	V	0.0000	1.0000	0.0000
Caliper	0.0000	1.0000	V	0.0000	1.0000	0.0000
Gamma Ray Calibration Report						
Serial Number:	070558					
Tool Model:	Probe1					
Performed:	Fri Oct 30 21:32:56 2020					
Calibrator Value:	1.0		GAPI			
Background Reading:	0.0		cps			
Calibrator Reading:	1.0		cps			
Sensitivity:	0.2700		GAPI/cps			