



MICRO LOG

Company L.D. DRILLING, INC.

Well #1-4 RIEMANN

Field

County LANE

State KANSAS

Location: API #: 15-101-22614-0000

2122' FNL & 1848' FEL

SEC 4 TWP 18S RGE 28W

Permanent Datum GROUND LEVEL Elevation 2714
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
DIL

Elevation
K.B. 2719
D.F. 2717
G.L. 2714

Date 11/22/18

Run Number TWO

Depth Driller 4687

Depth Logger 4690

Bottom Logged Interval 4688

Top Log Interval 3400

Casing Driller 8 5/8" @ 330

Casing Logger 330

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD CHLORIDES 3300 PPM

Density / Viscosity 9.4/50

pH / Fluid Loss 10.5/7.2

Source of Sample FLOWLINE

Rm @ Meas. Temp .80 @ 65F

Rmf @ Meas. Temp .60 @ 65F

Rmc @ Meas. Temp .96 @ 65F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .42 @ 122F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 1111

Maximum Recorded Temperature 122F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

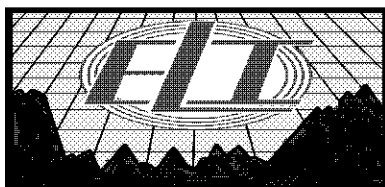
Witnessed By KIM SHOEMAKER

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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

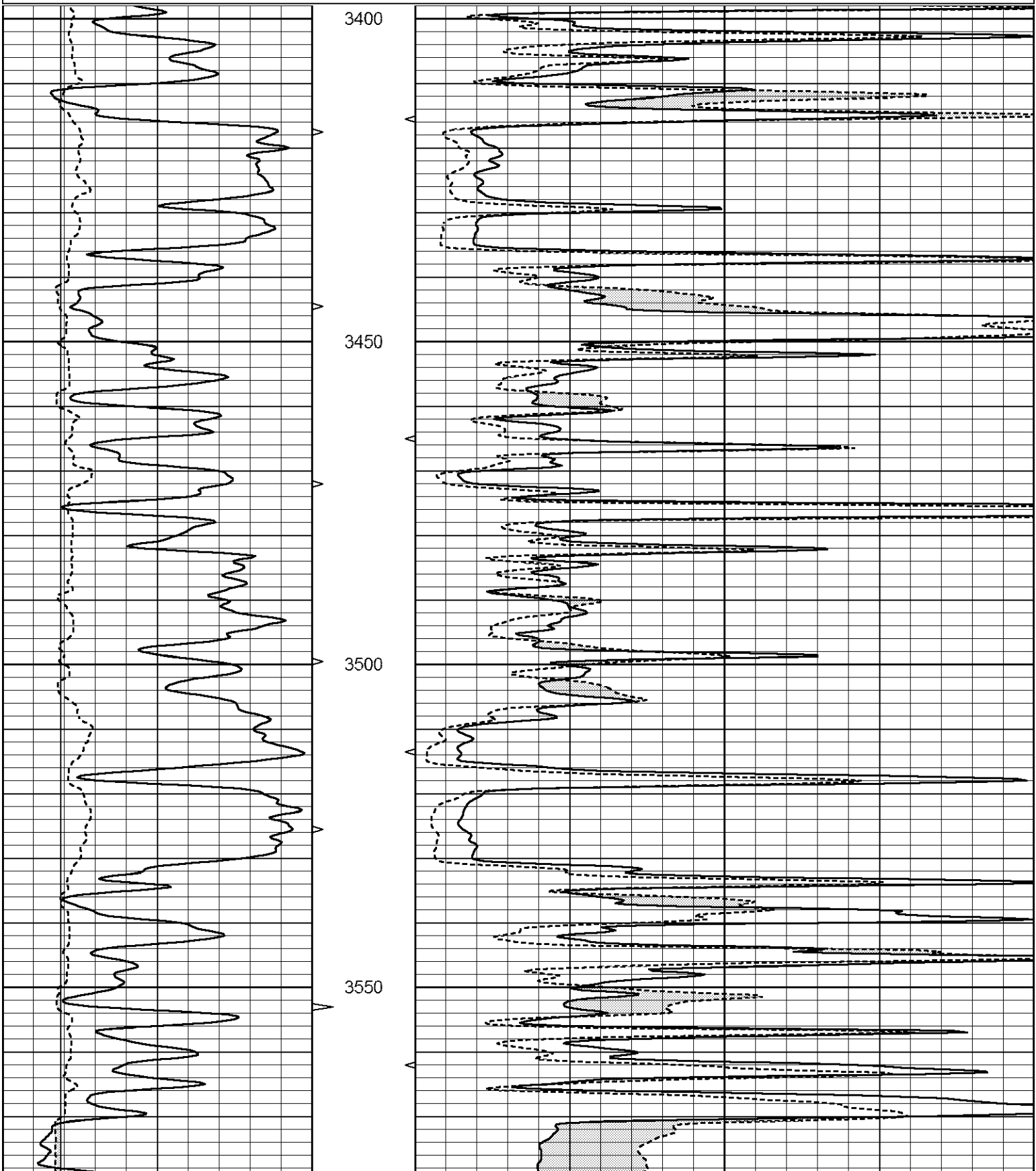
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
DIGHTON, KS. -3 EAST TO NEWTON RD. - 2 1/2 NORTH - WEST INTO

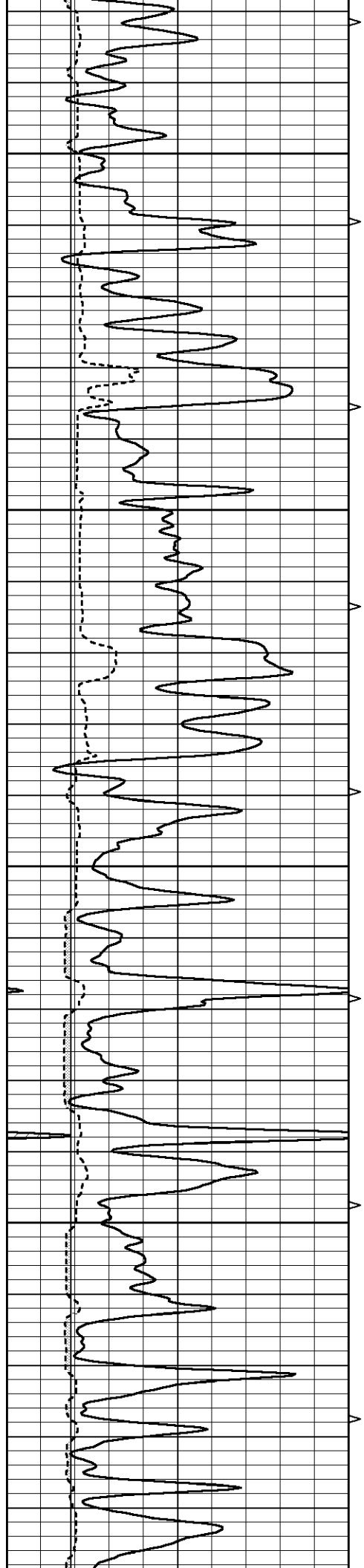


MAIN SECTION

Database File	3019ddn8.db
Dataset Pathname	pass6.1
Presentation Format	_micro
Dataset Creation	Thu Nov 22 11:41:50 2018
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		



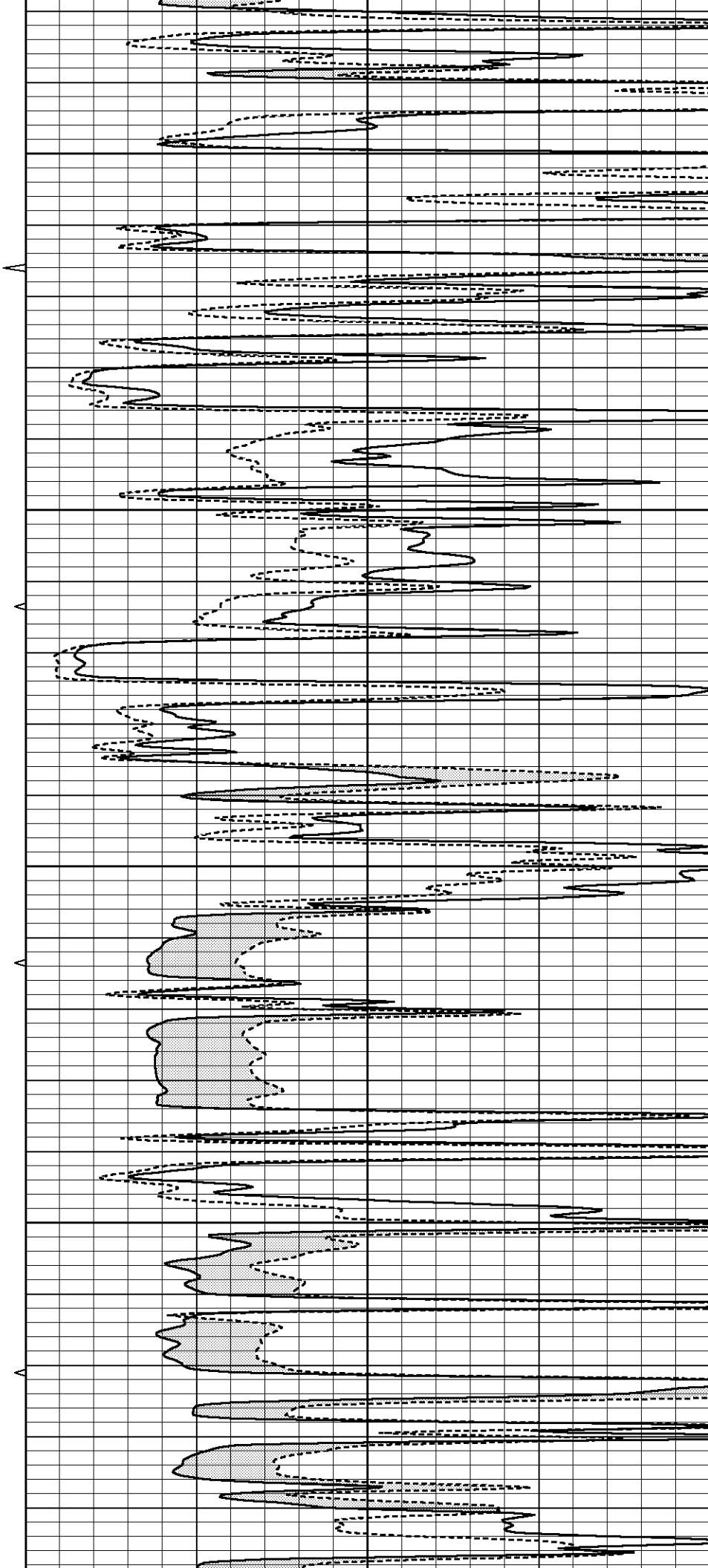


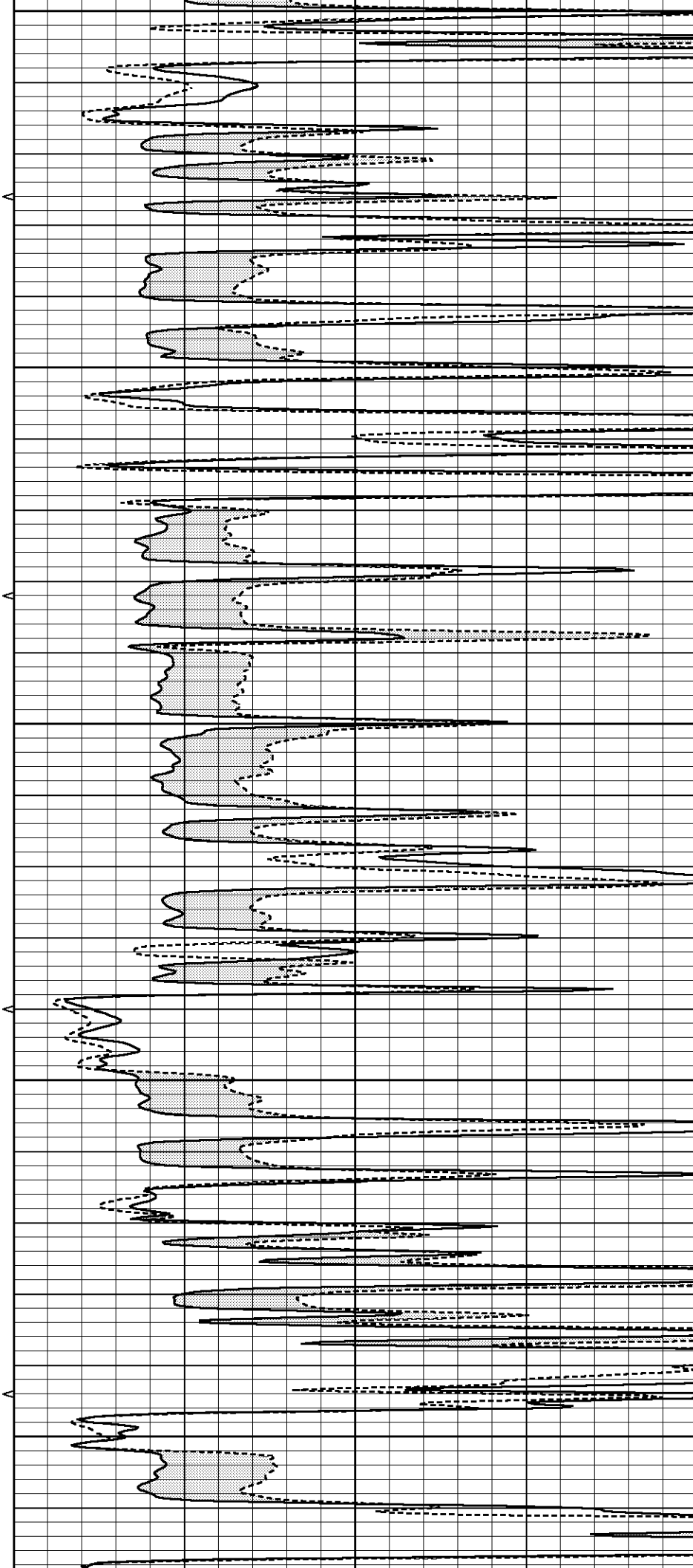
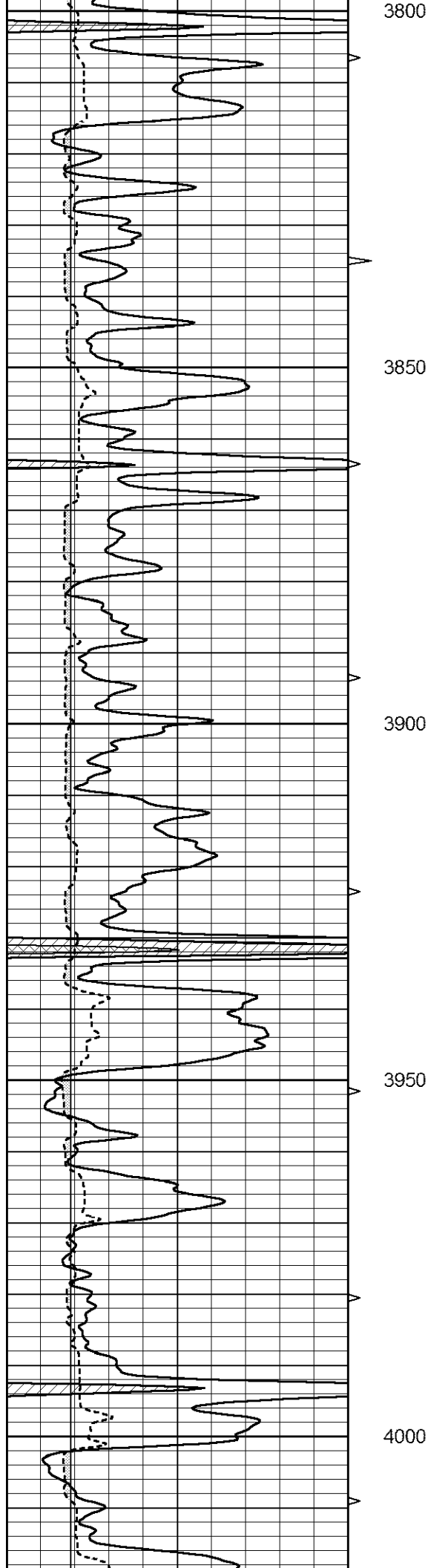
3600

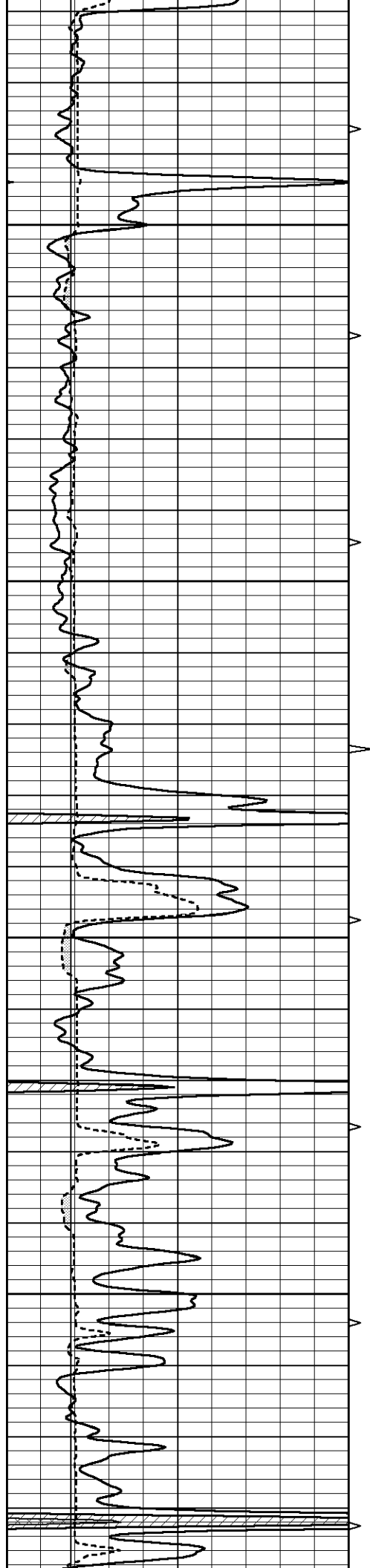
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3700

3750





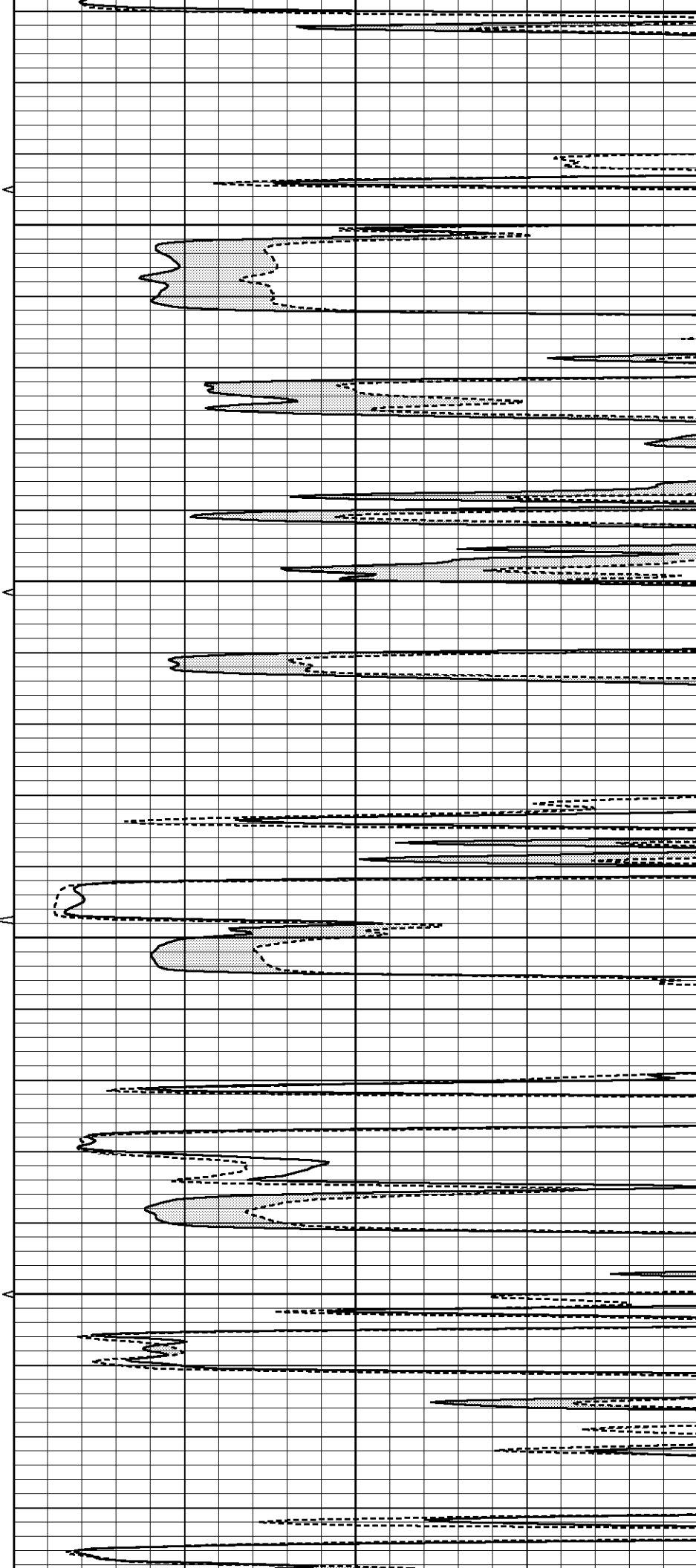


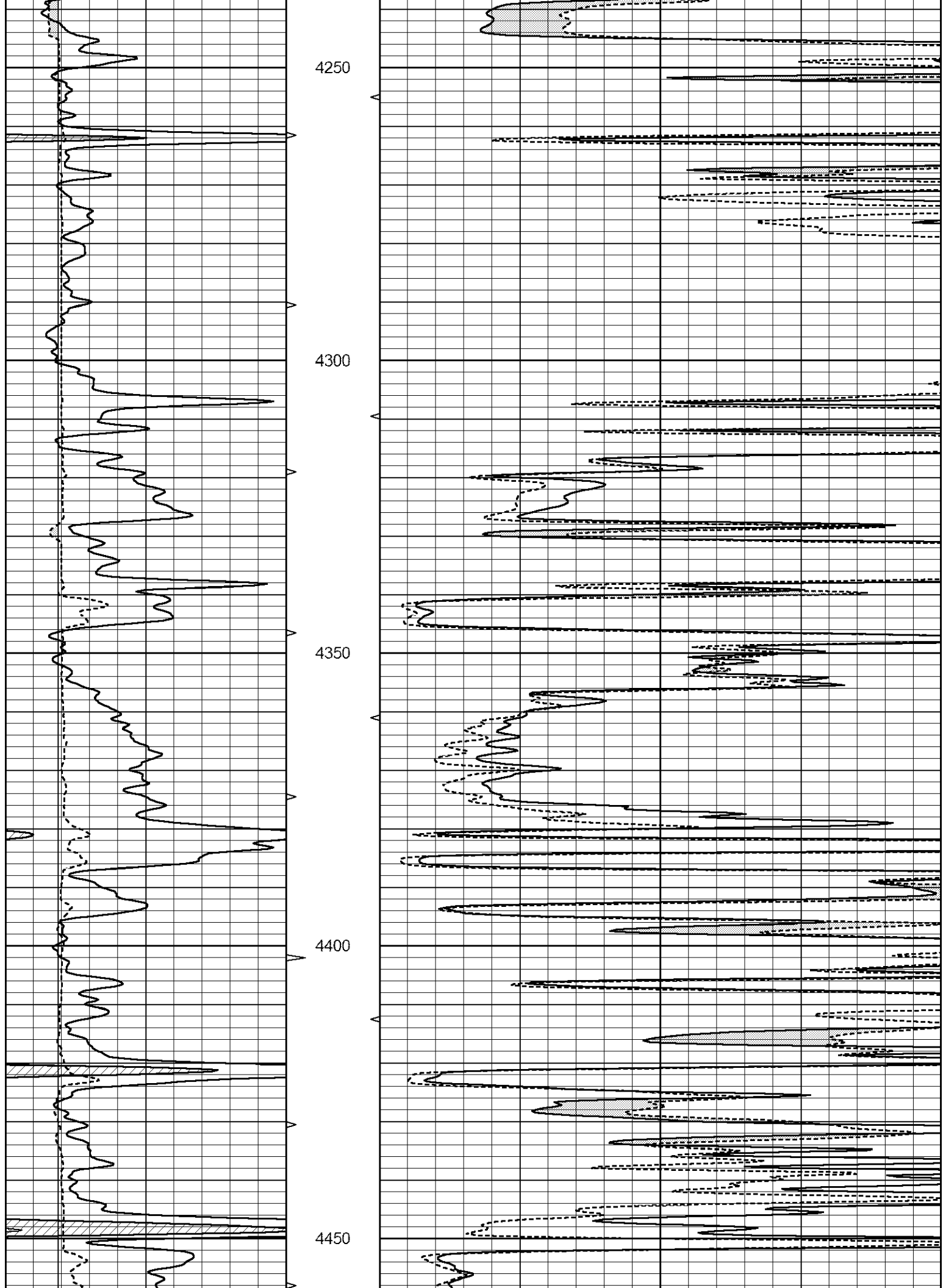
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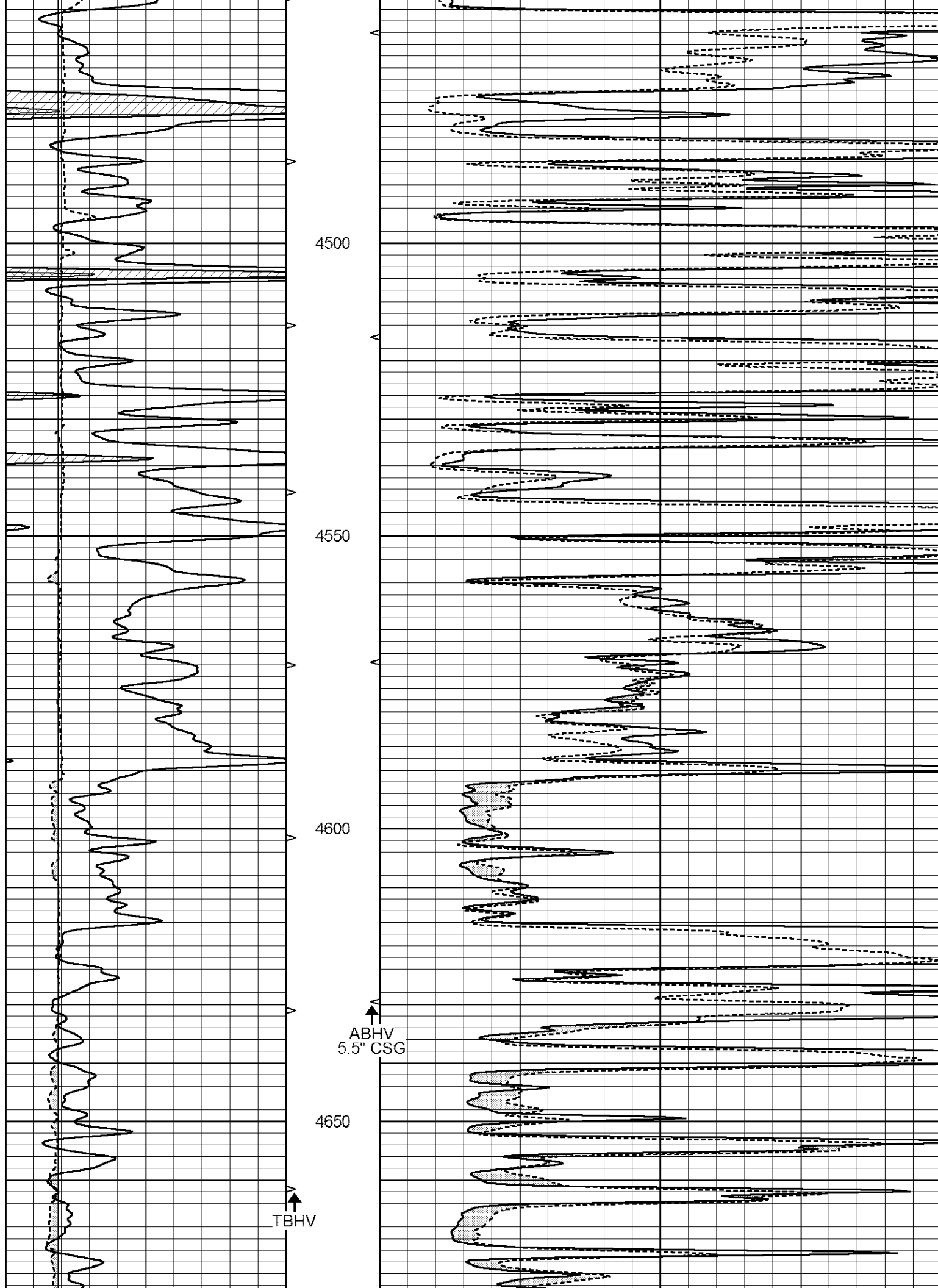
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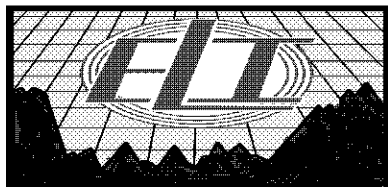
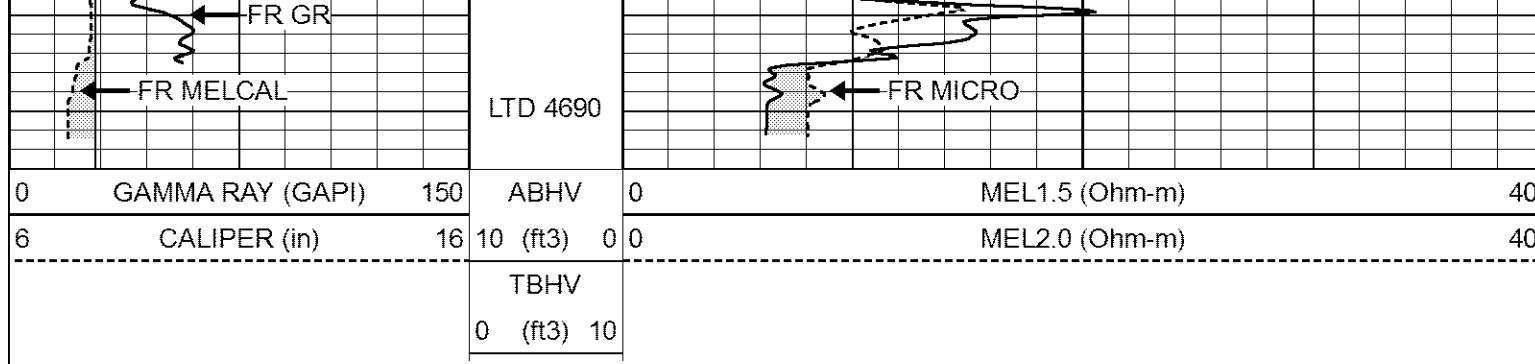
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4200



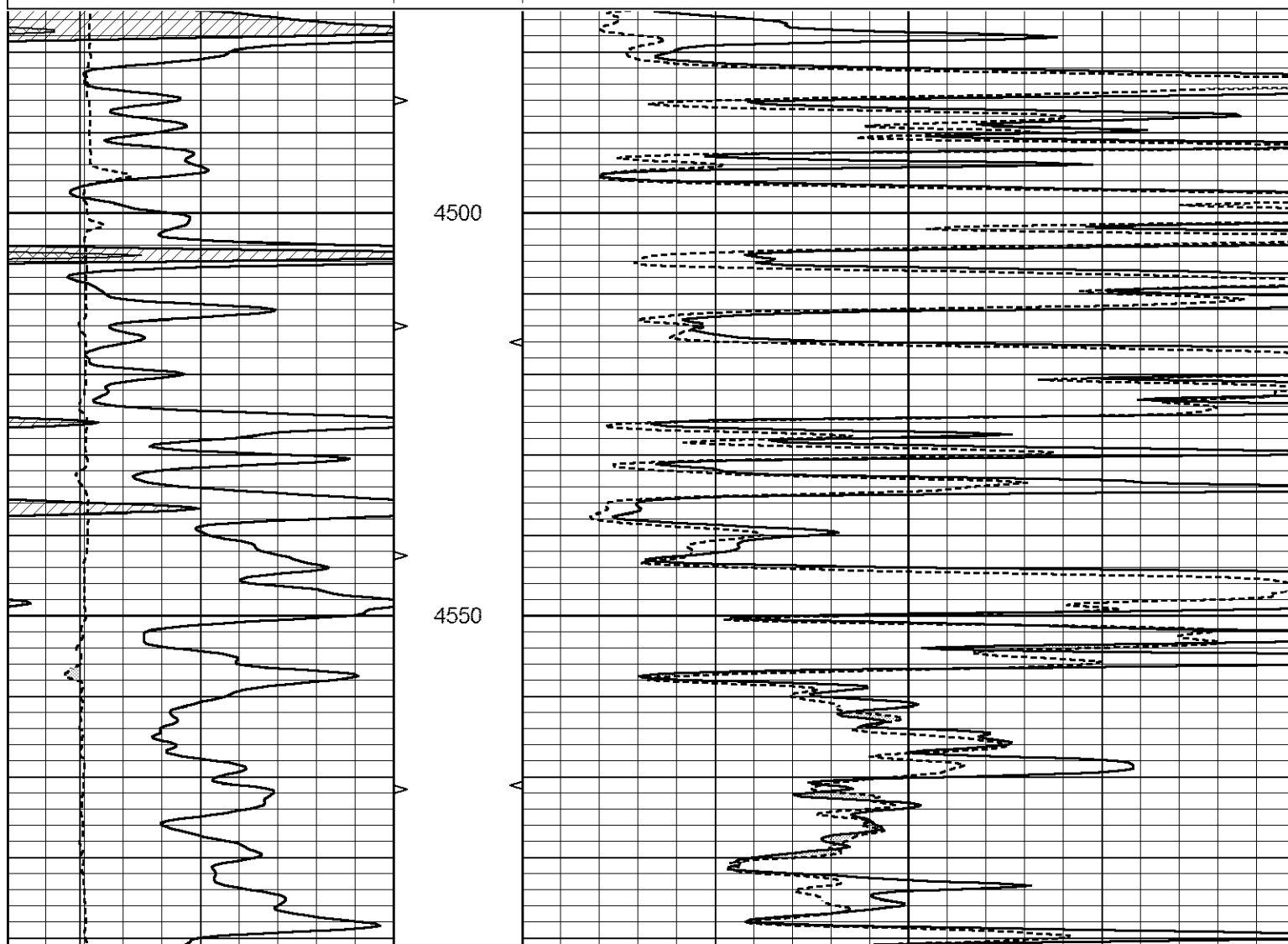
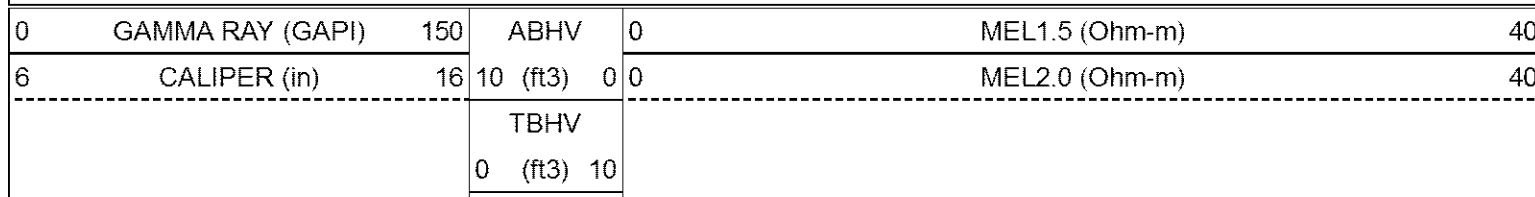


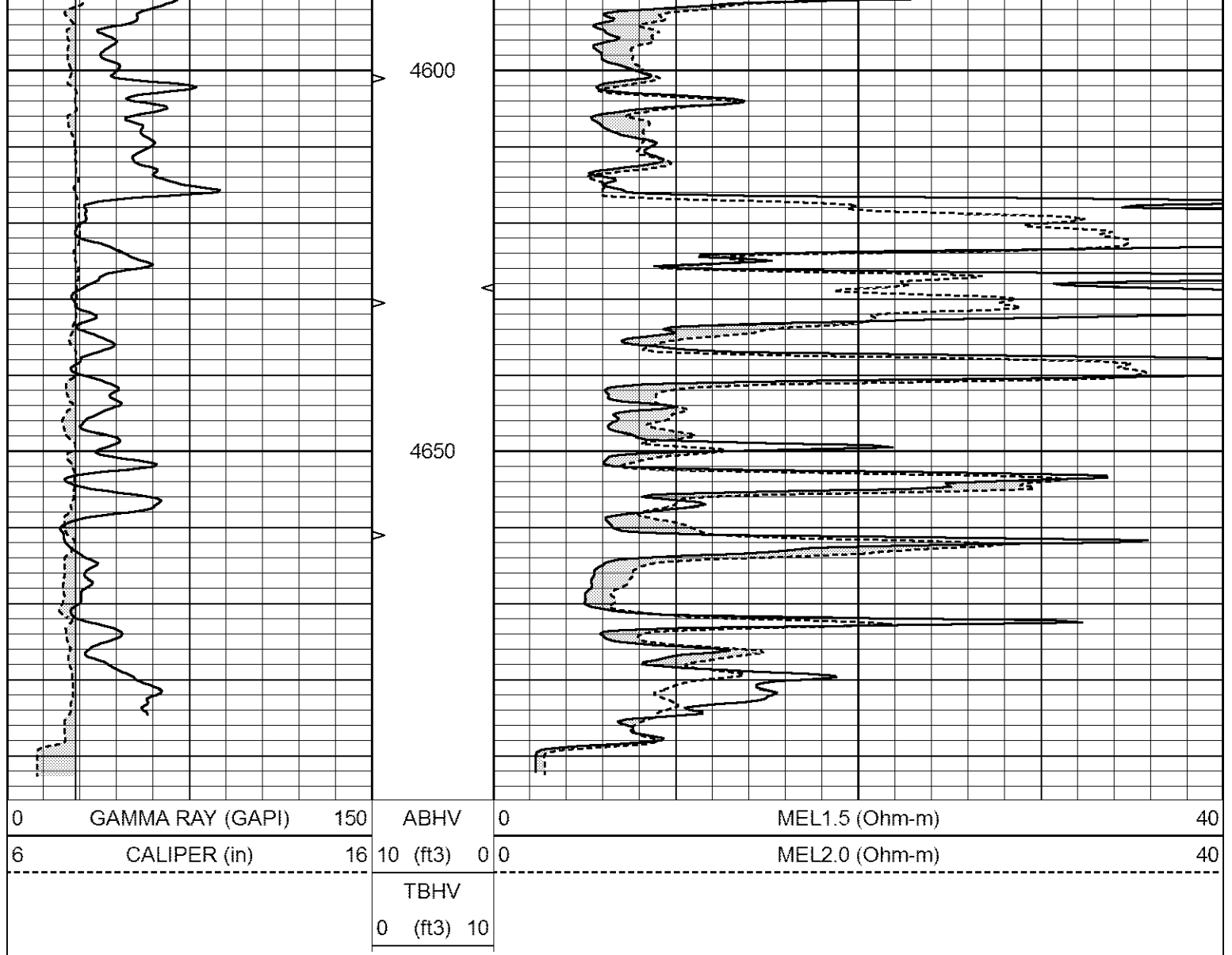




REPEAT SECTION

Database File 3019ddn8.db
 Dataset Pathname pass5.2
 Presentation Format _micro
 Dataset Creation Thu Nov 22 11:27:31 2018
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File 3019ddn8.db
Dataset Pathname pass5.1
Dataset Creation Thu Nov 22 11:19:11 2018

MICRO_USR Calibration Report

Serial Number:	070911	
Tool Model:	ProbeL	
Performed:	Fri Mar 09 19:26:46 2018	
Caliper Calibration:	Gain=3.755	Offset=3.050
References	Low Cal	High Cal
Readings	8.000	14.000
	1.451	3.049
1.5" Calibration:	Gain=37.000	Offset=0.000
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	0.843
2" Calibration:	Gain=75.000	Offset=-1.650
References	Low Cal	High Cal
	0.000	20.000

Readings

0.021

0.810

Microlog Calibration Report

Serial-Model:

070911-ProbeL

Performed:

Sat Apr 11 01:13:01 2015

Readings

References

Results

Zero

Cal

Zero

Cal

m

b

Normal

0.0002

0.4836

V

0.0000

10.0000

Ohm-m

20.6908

-0.0051

Inverse

0.0018

0.6297

V

0.0000

10.0000

Ohm-m

15.9263

-0.0282

Caliper

0.0000

1.0000

V

0.0000

1.0000

in

1.0000

0.0000

Gamma Ray Calibration Report

Serial Number:

7

Tool Model:

Probe1

Performed:

Wed Jun 29 11:10:58 2016

Calibrator Value:

1.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.2700

GAPI/cps