



SUPERIOR
Hays,
Kansas

MICRO
LOG

Company ATLAS OPERATING, LLC
Well SANDERS - SCHMISSEUR #5
Field SPIVEY - GRAB - BASIL
County HARPER
State KANSAS

Company ATLAS OPERATING, LLC
Well SANDERS - SCHMISSEUR #5
Field SPIVEY - GRAB - BASIL
County HARPER State KANSAS

Location: API # : 15-077-21840-0000
2310' FWL & 990' FWL
SE - SW - NW
SEC 28 TWP 31S RGE 8W
Permanent Datum GROUND LEVEL Elevation 1556
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
PE/MEI
Elevation
K.B. 1566
D.F. 1568
G.L. 1556

Date	5-17-12		
Run Number	TWO		
Depth Driller	4570		
Depth Logger	4573		
Bottom Logged Interval	4571		
Top Log Interval	2700		
Casing Driller	268		
Casing Logger	268		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 52	CHLORIDES 5.000	
pH / Fluid Loss	11.5 / 10.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.70 @ 83F		
Rmf @ Meas. Temp	0.37 @ 83F		
Rmc @ Meas. Temp	0.59 @ 83F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.48 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	SAMAN SHARITALE	PAT DEENIHAN	

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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.

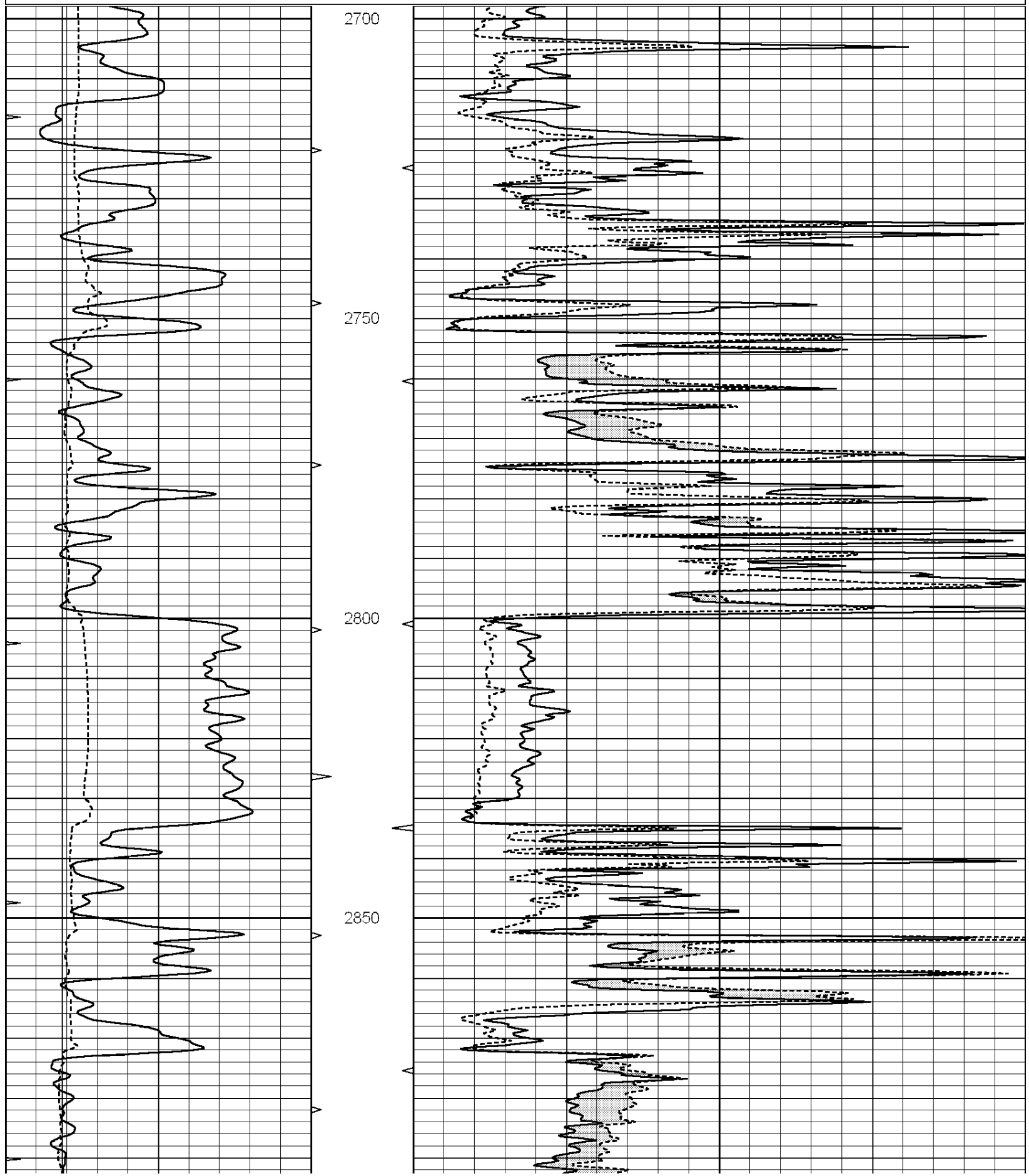
Comments

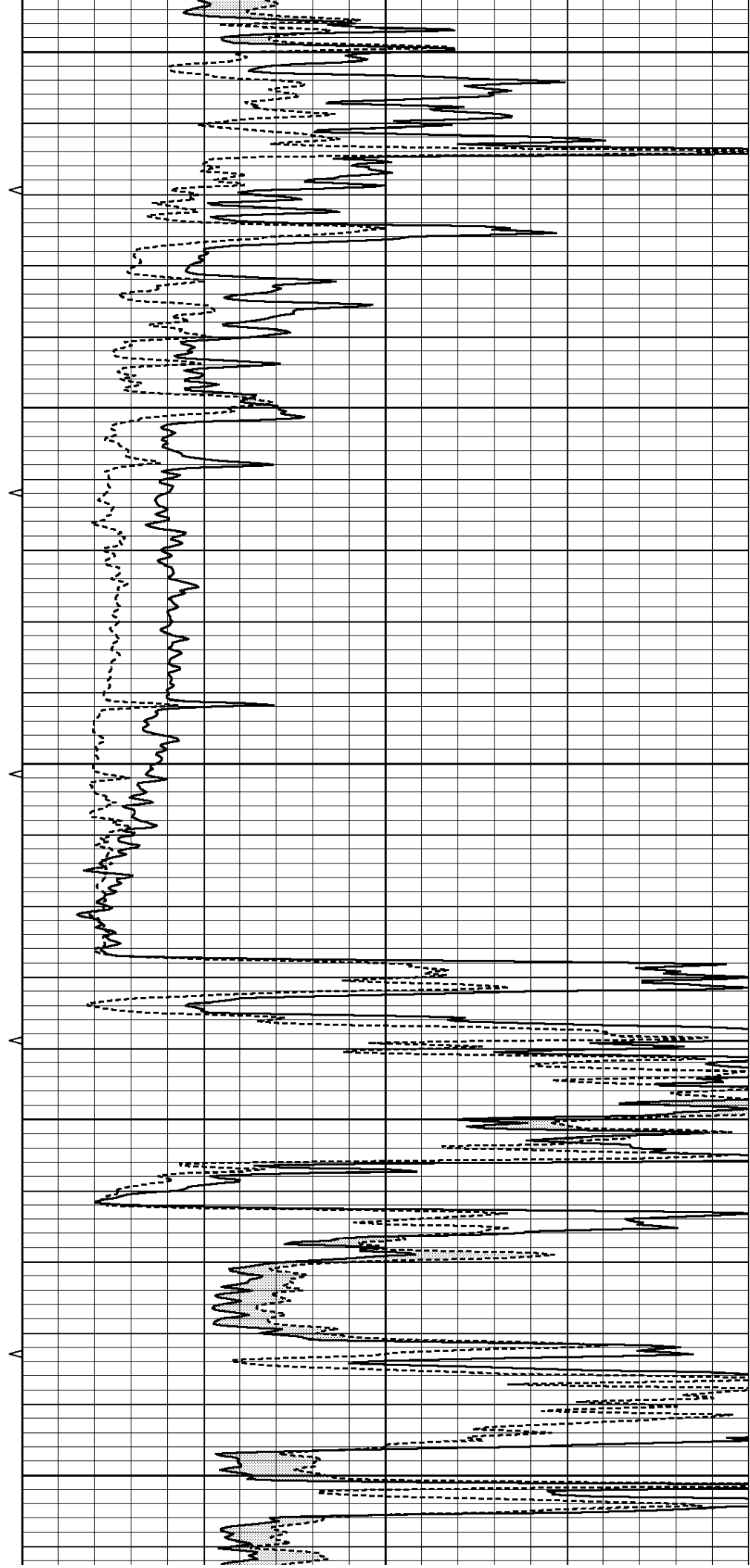
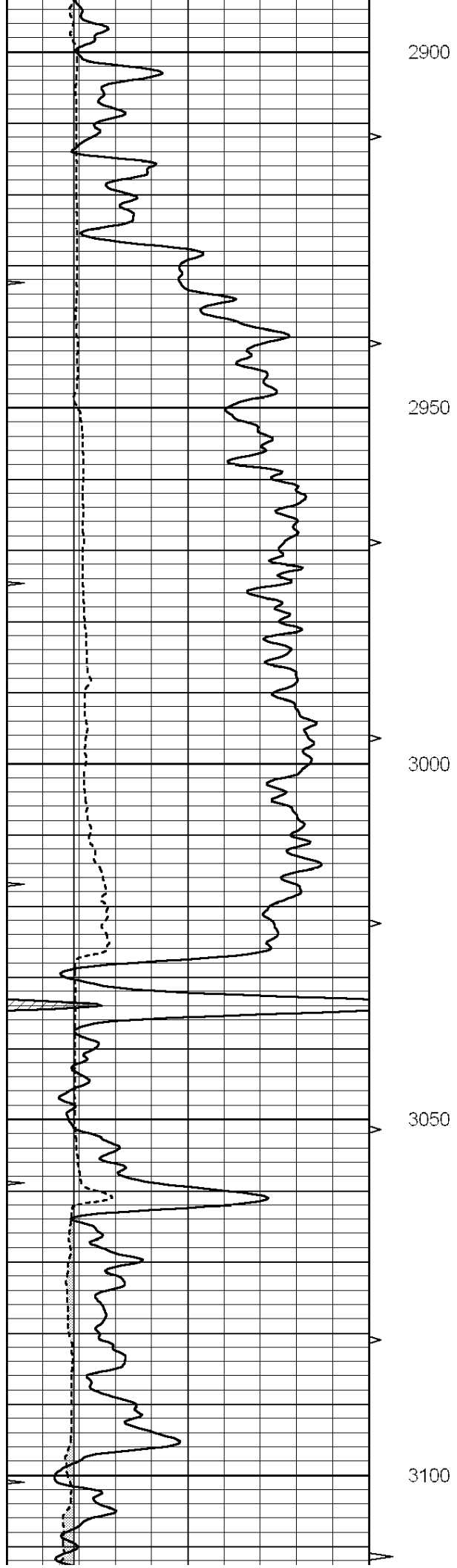
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: ZENDA, KS - 4 MILES EAST TO RD 50 - SOUTH TO SPIVEY GAS PLANT
3 MILES SOUTH TO RD 120 - 1 MILE EAST - 1/2 MILE SOUTH - EAST INTO

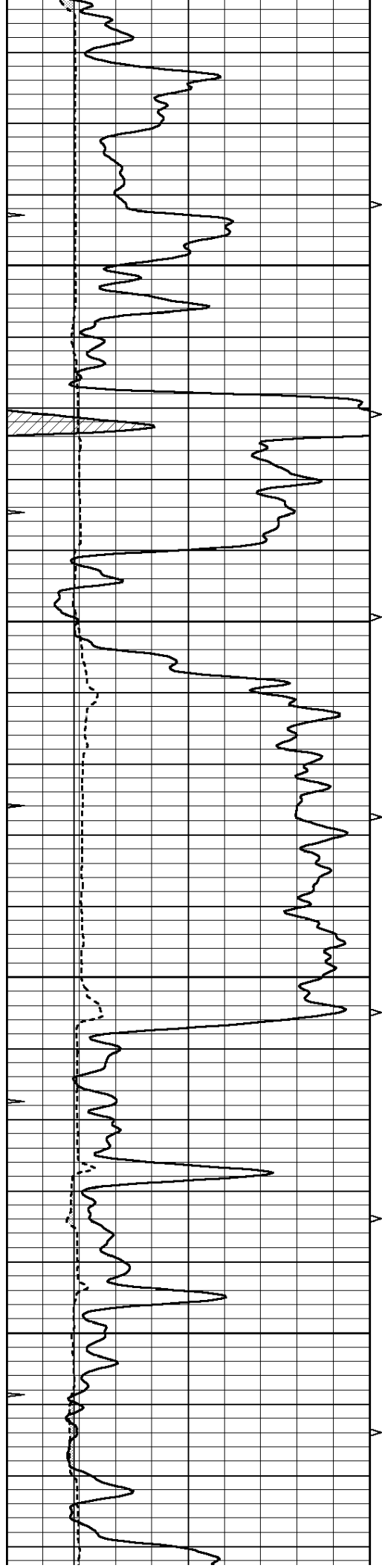
Database File: 009119pe.db
Dataset Pathname: pass5
Presentation Format: micro
Dataset Creation: Fri May 18 00:09:46 2012 by Log Open-Cased 090629

0	GAMMA RAY (GAPI)	150
6	MELCAL (in)	16
0	MINMK	20

0	MEL1.5 (Ohm-m)	40
0	MEL2.0 (Ohm-m)	40





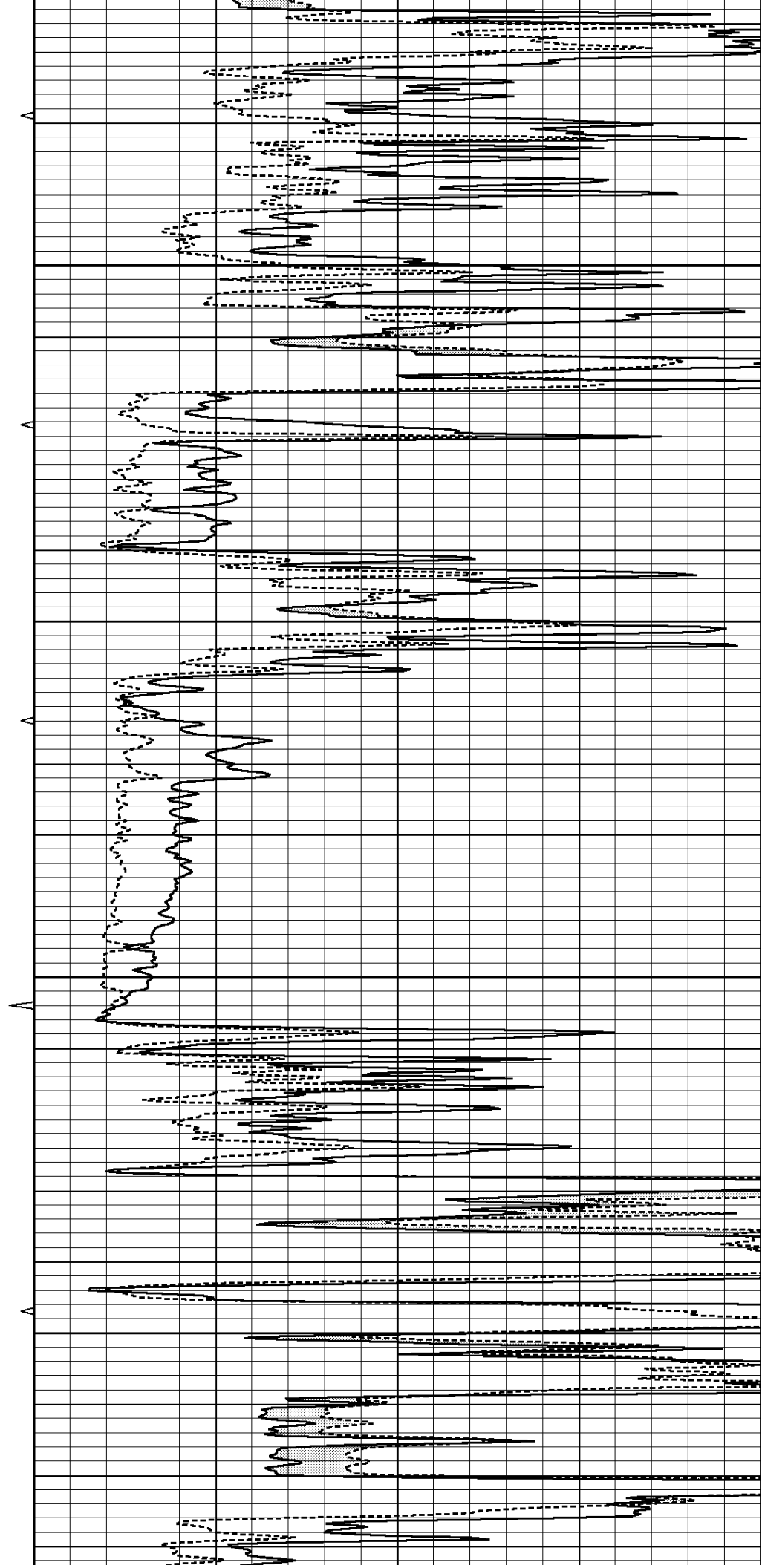


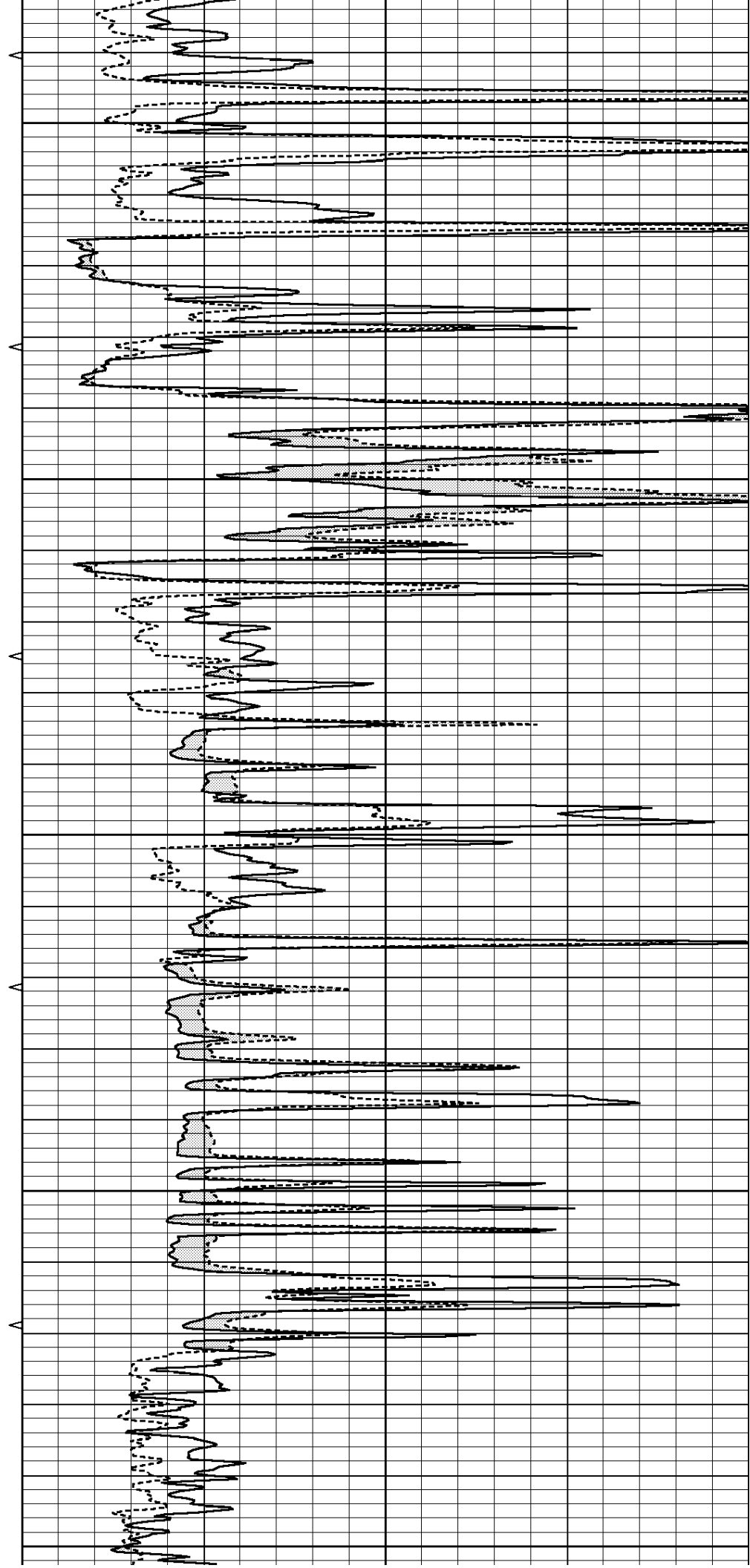
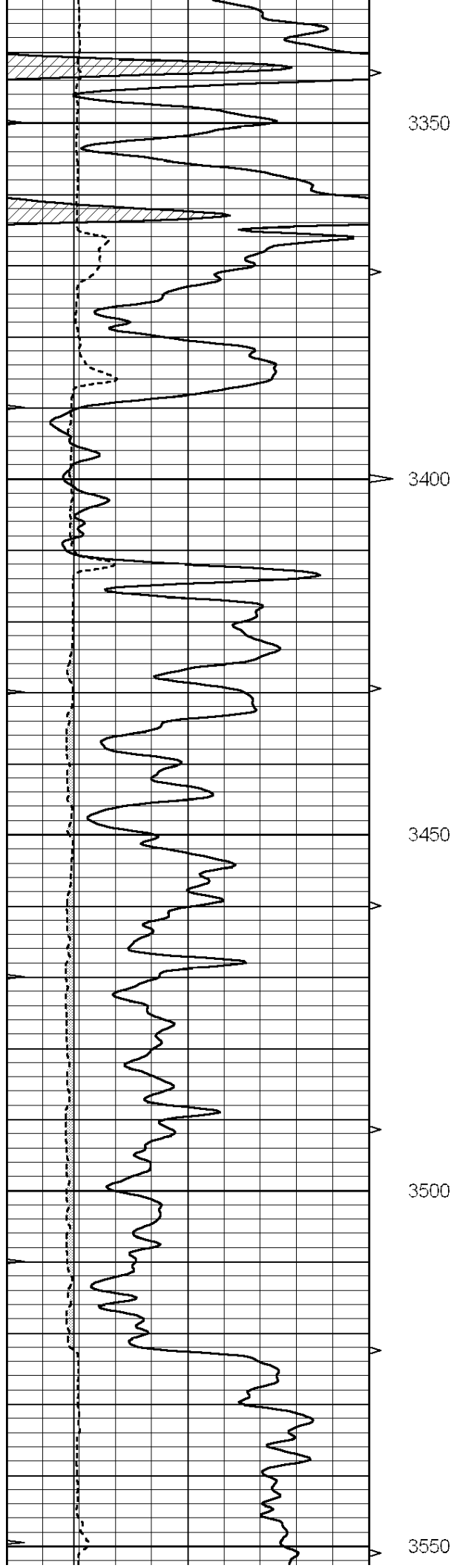
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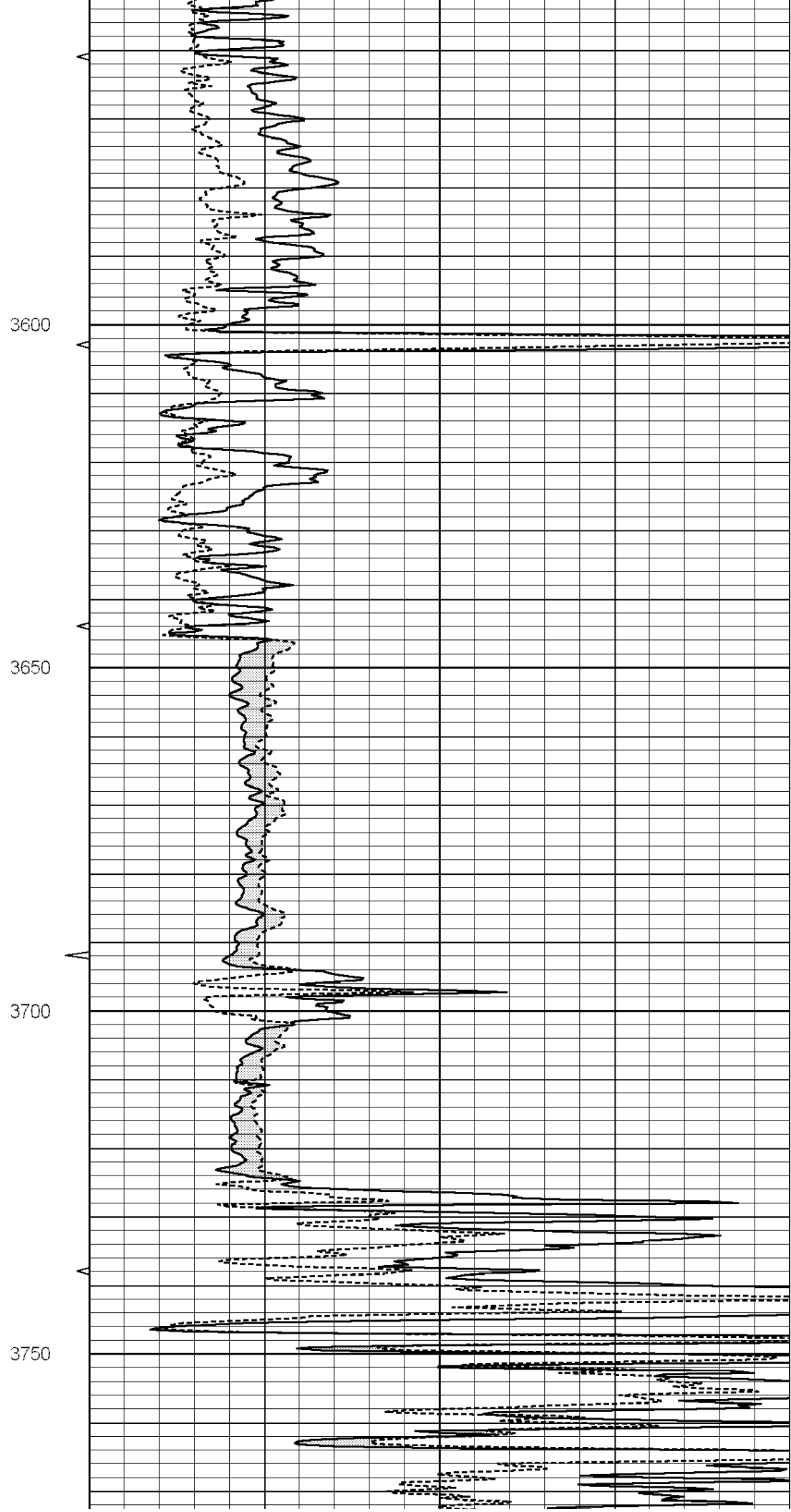
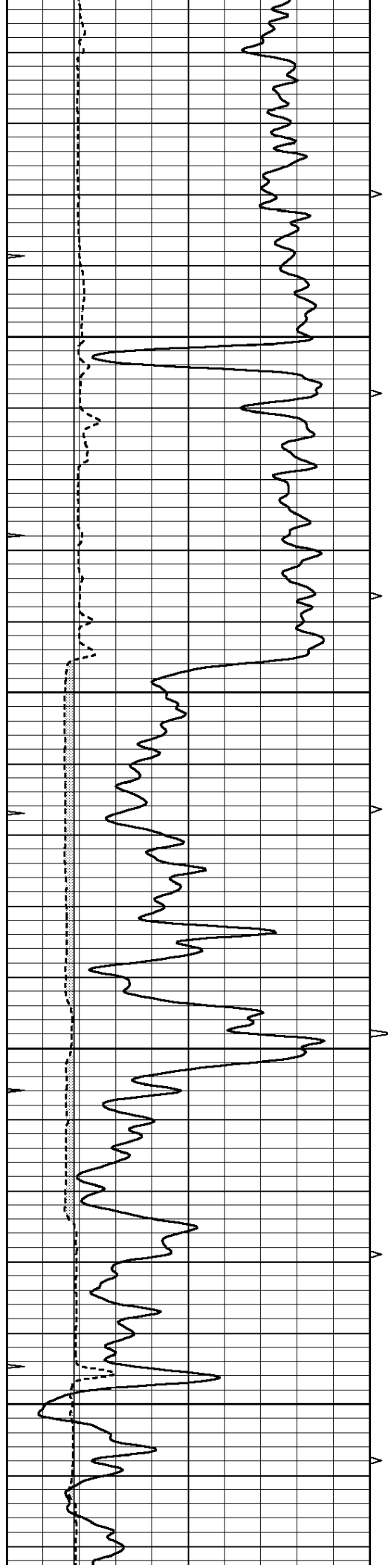
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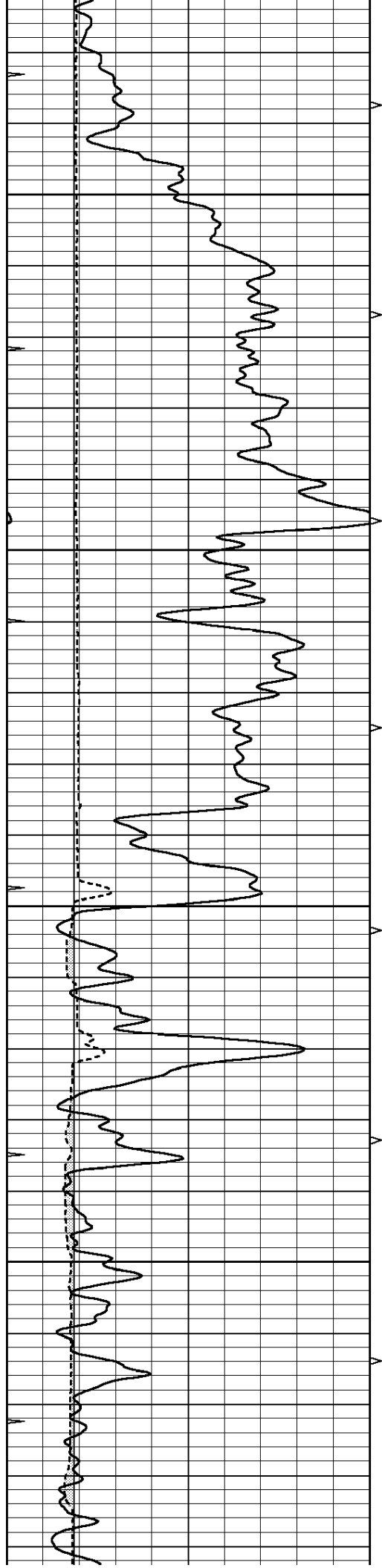
3250

3300







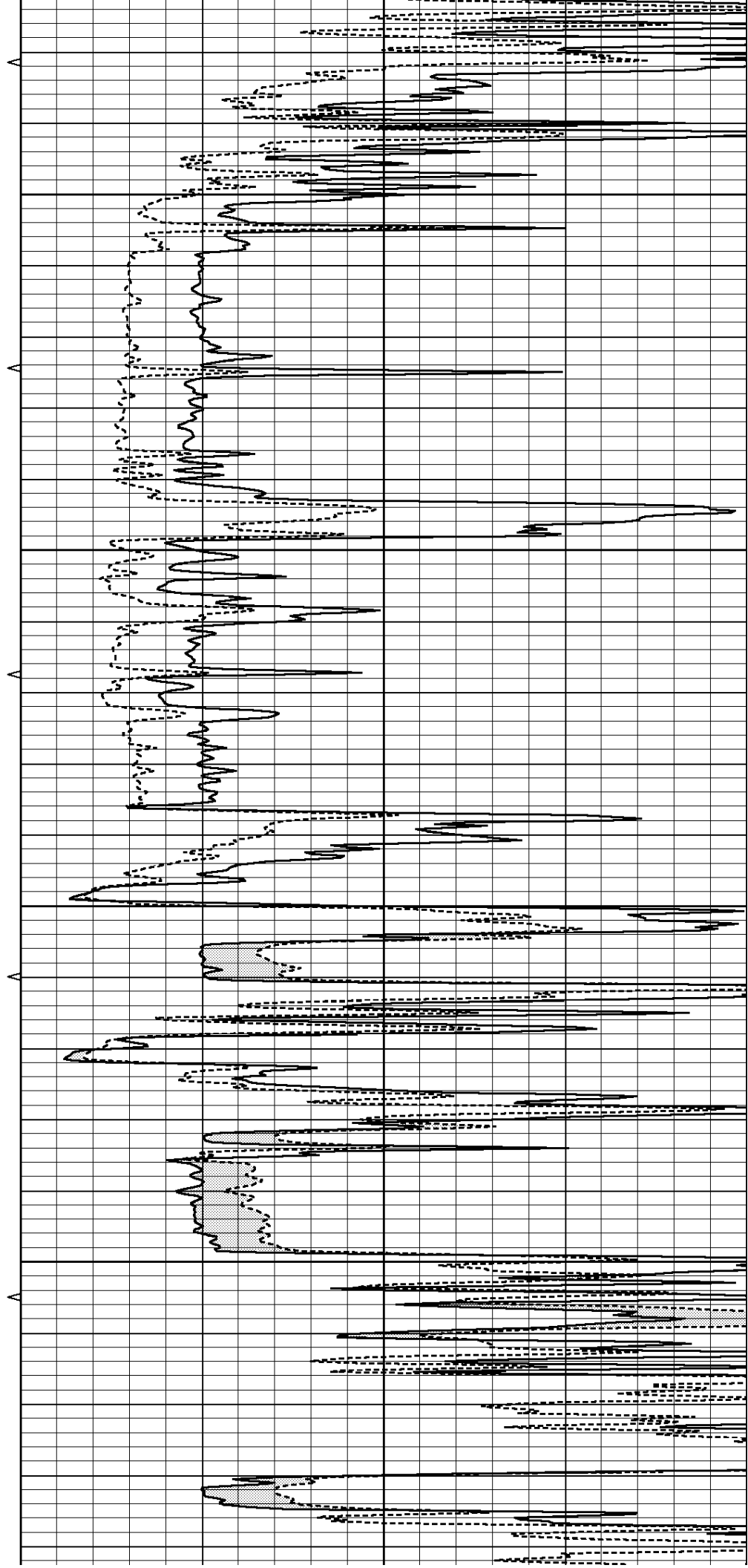


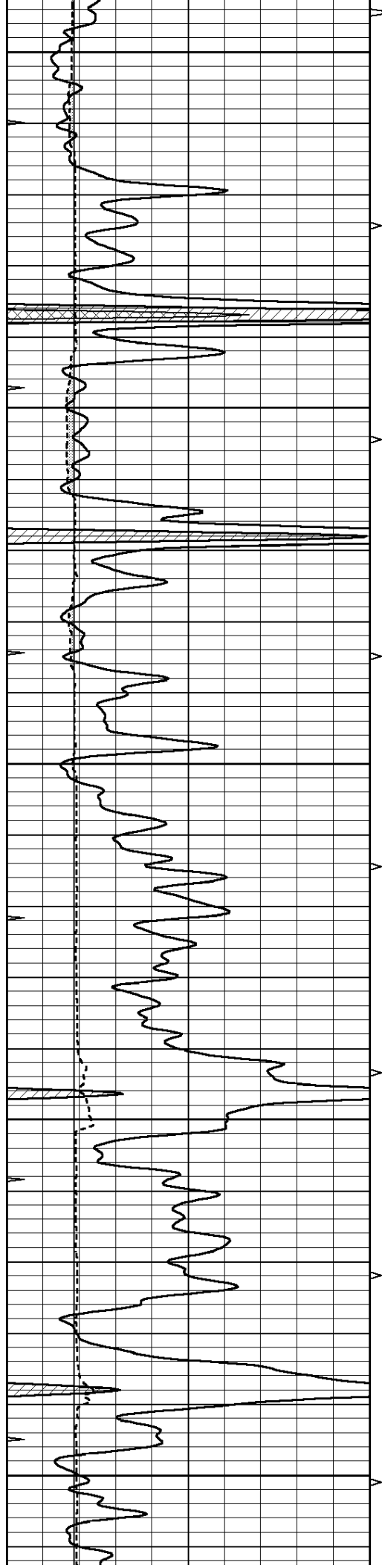
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3850

3900

3950





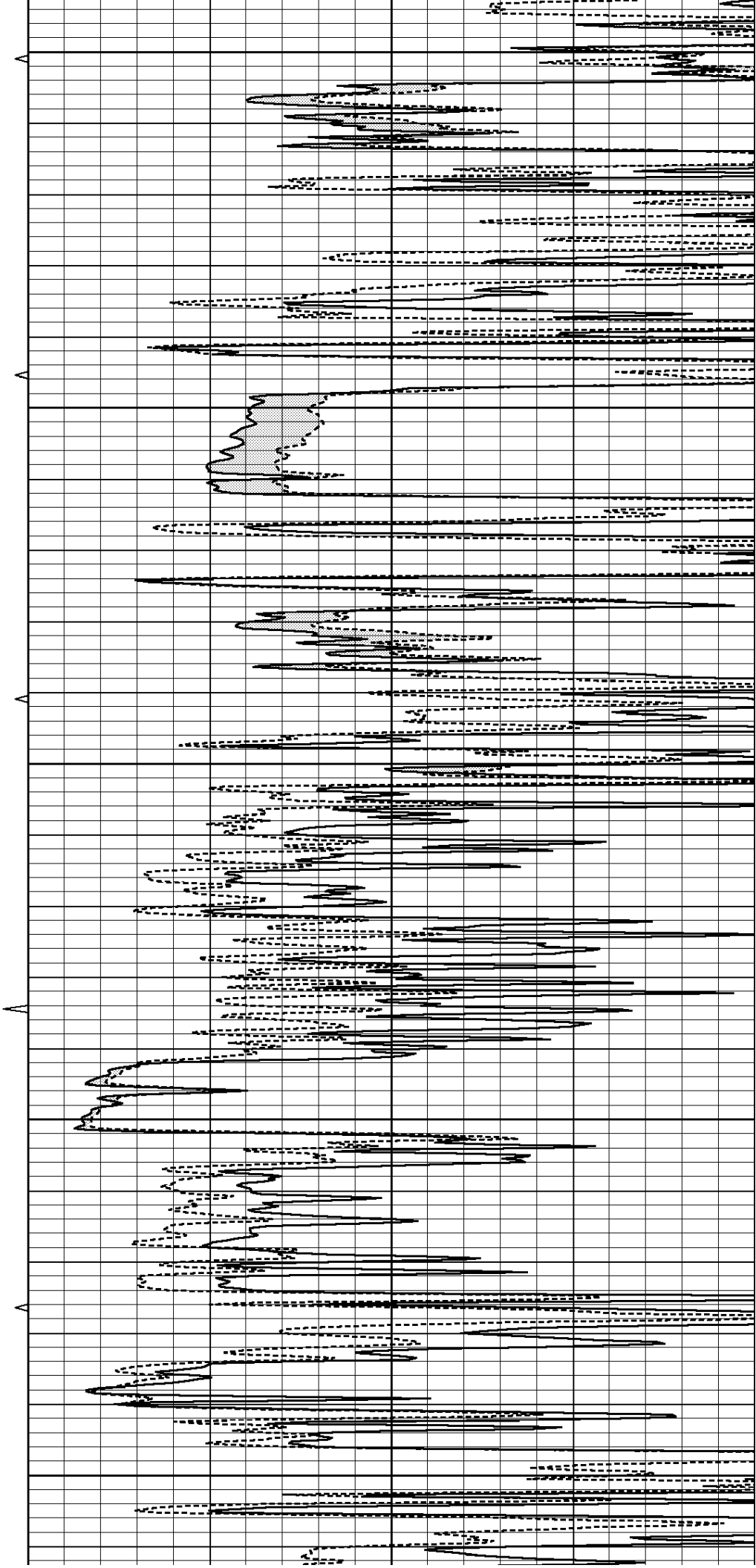
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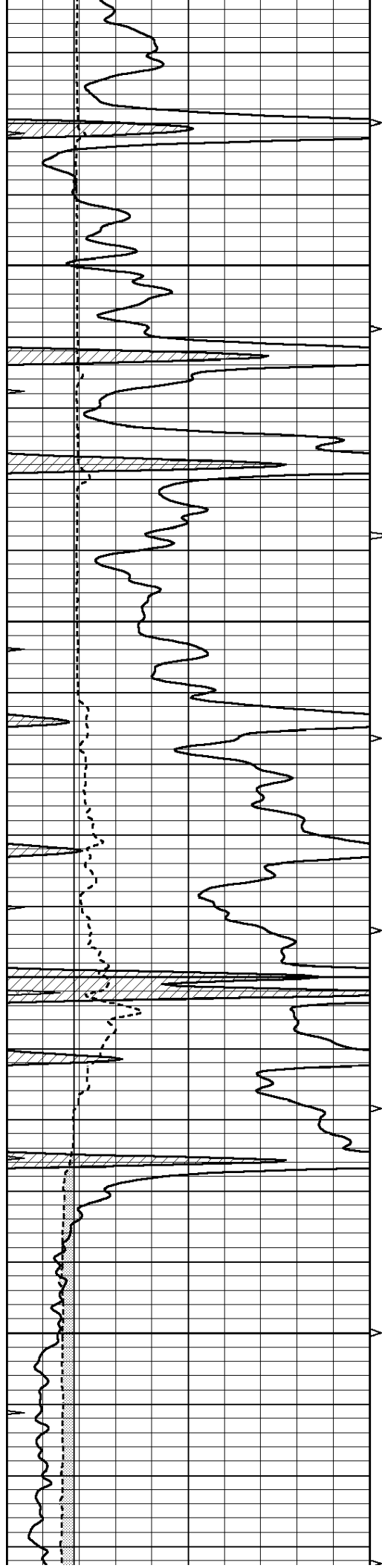
4050

4100

4150

4200



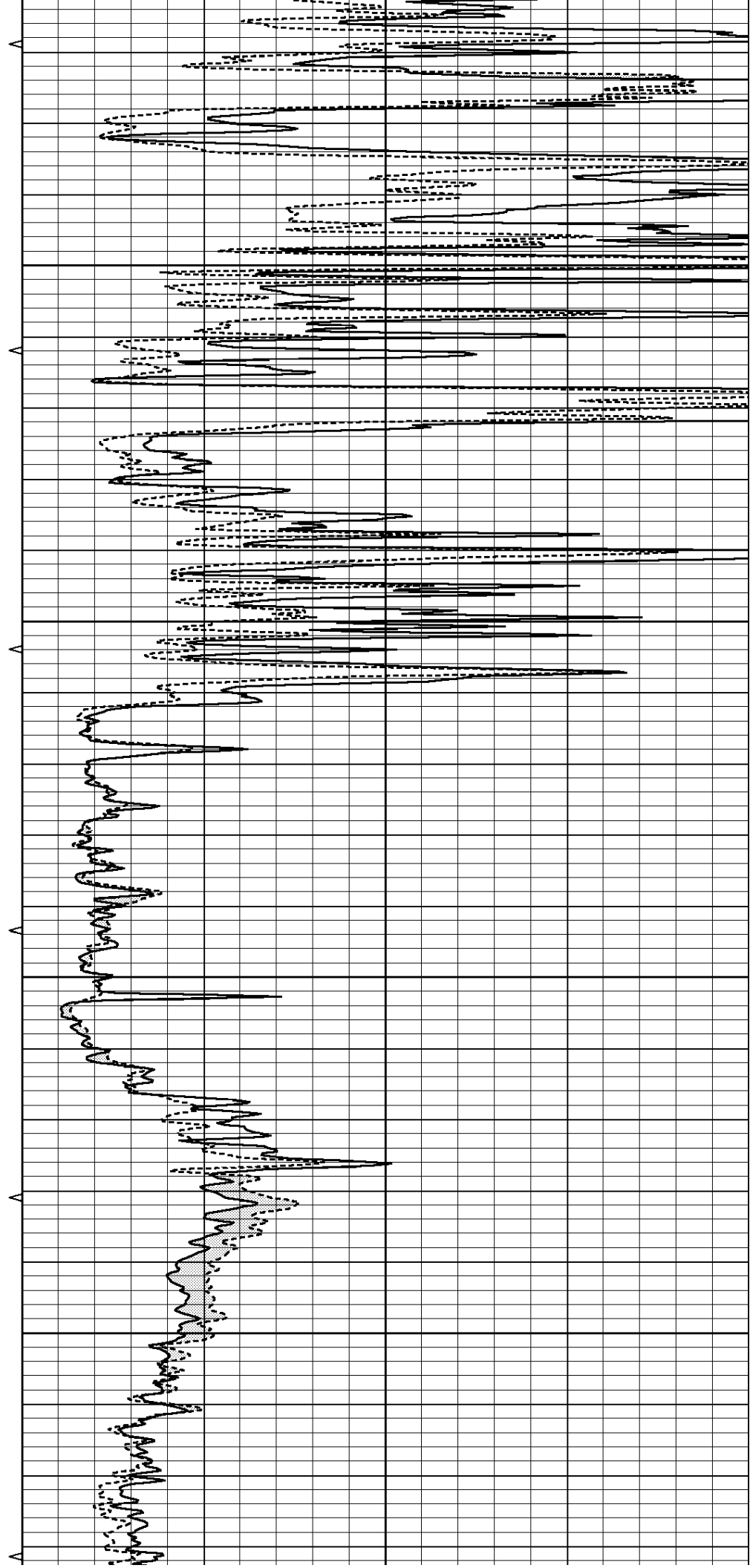


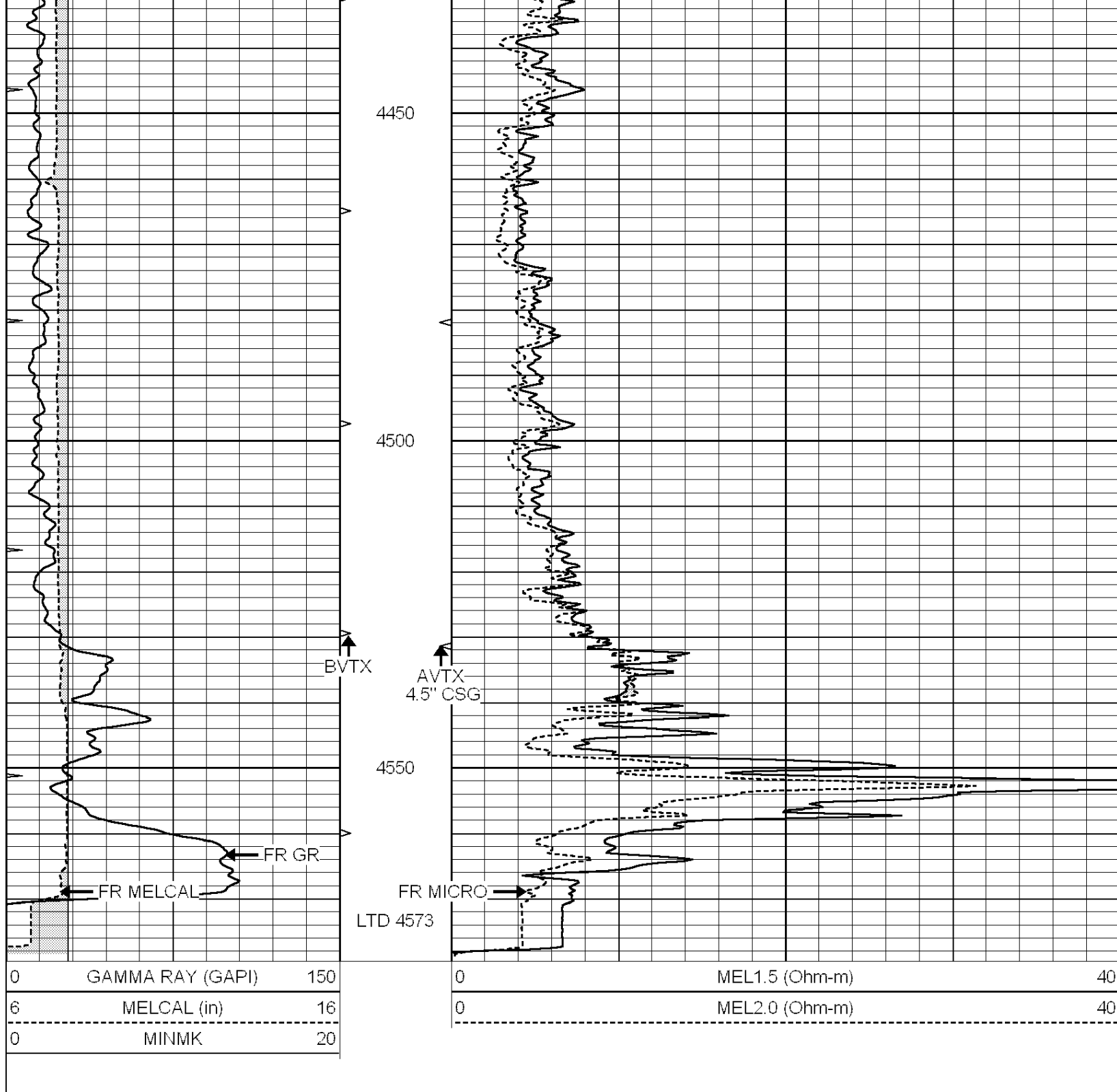
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4300

4350

4400

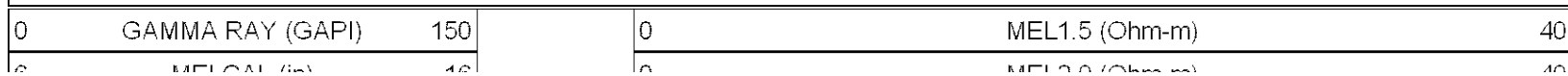




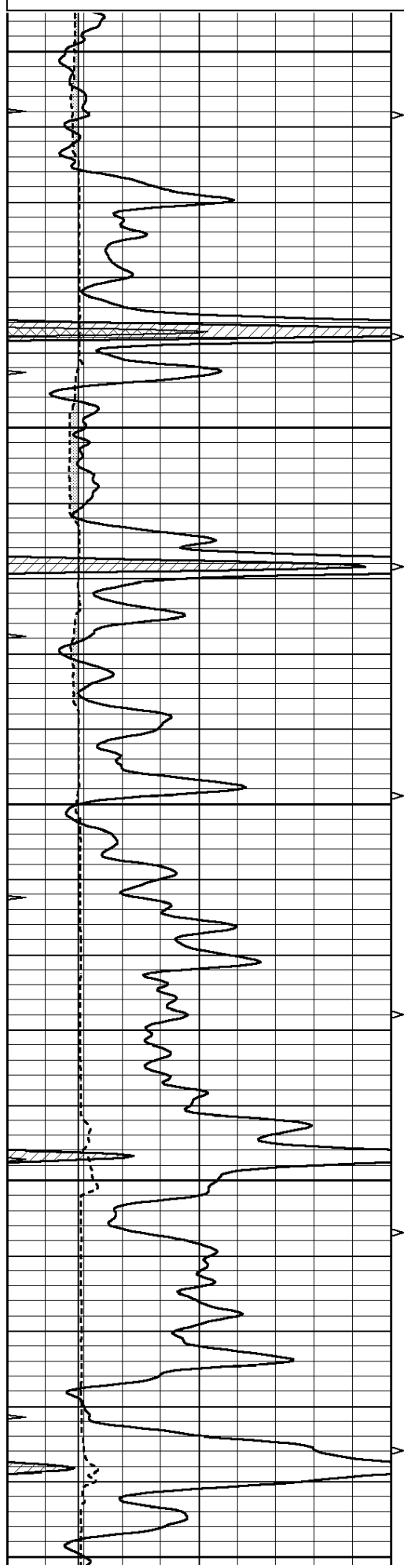
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REPEAT SECTION

Database File: 009119pe.db
 Dataset Pathname: pass4
 Presentation Format: micro
 Dataset Creation: Thu May 17 23:47:11 2012 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



MELCAL (m) 16
0 MINMK 20



4000

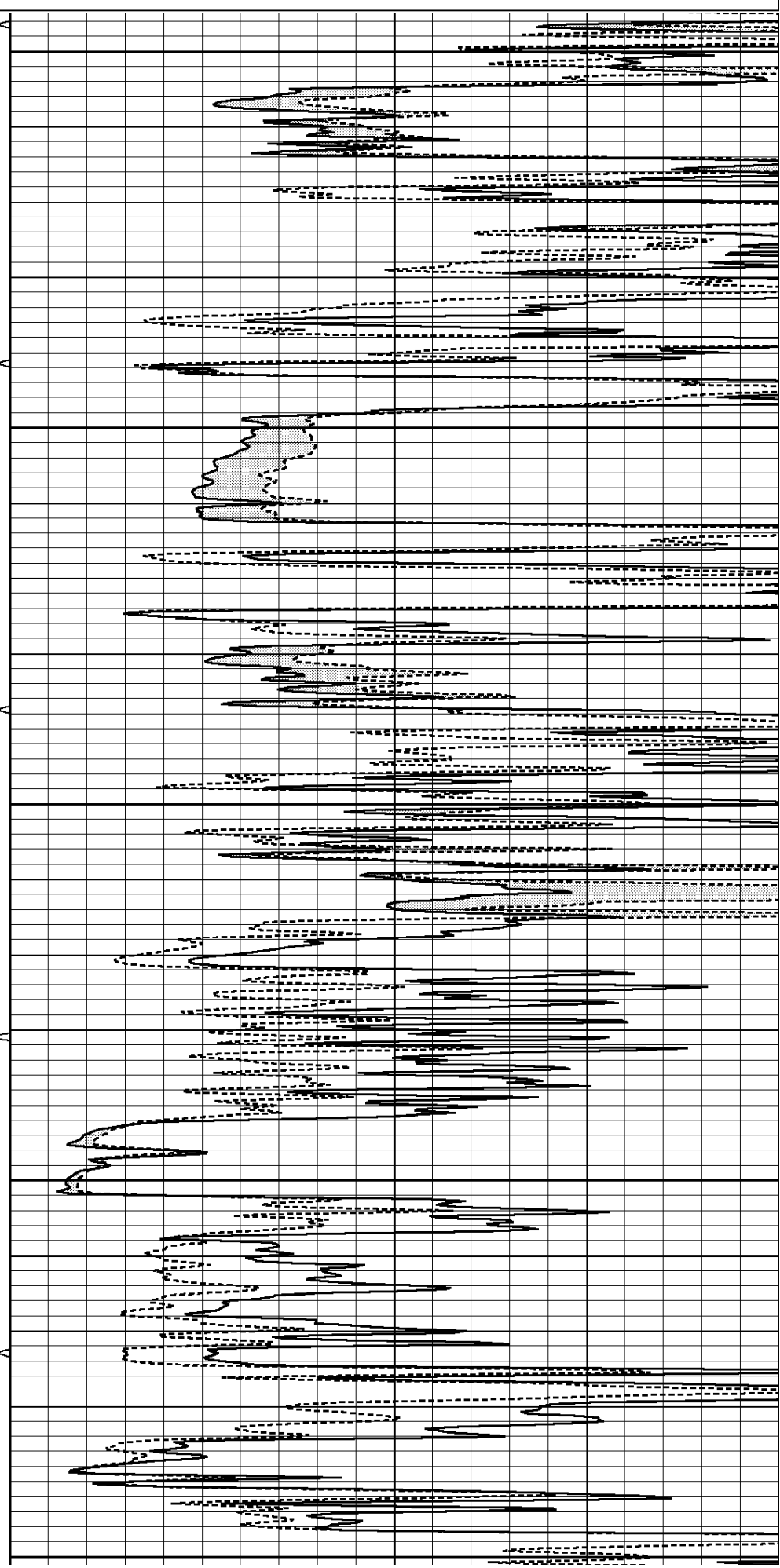
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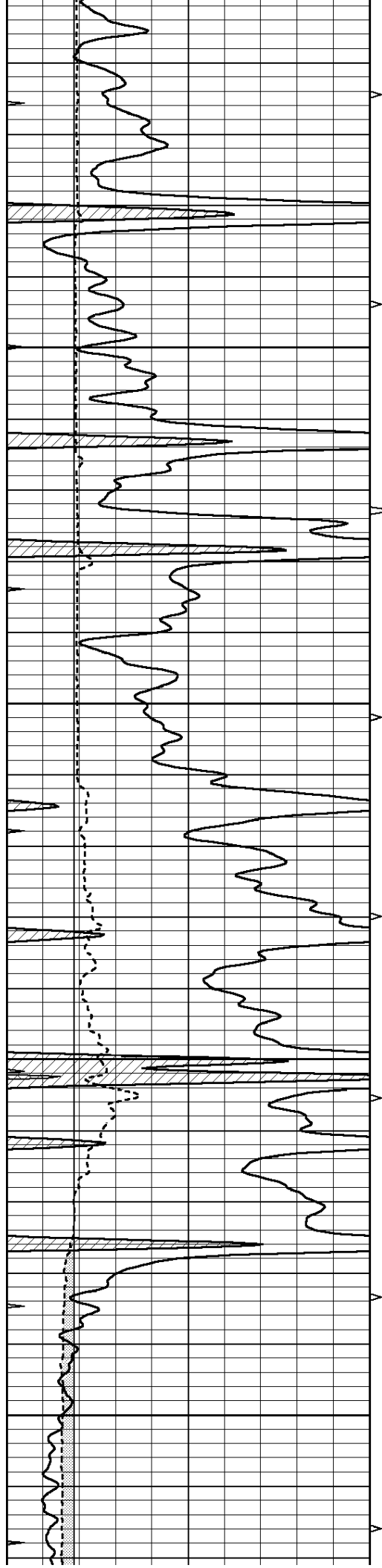
4100

4150

4200

MEL2.0 (Griffith) 40



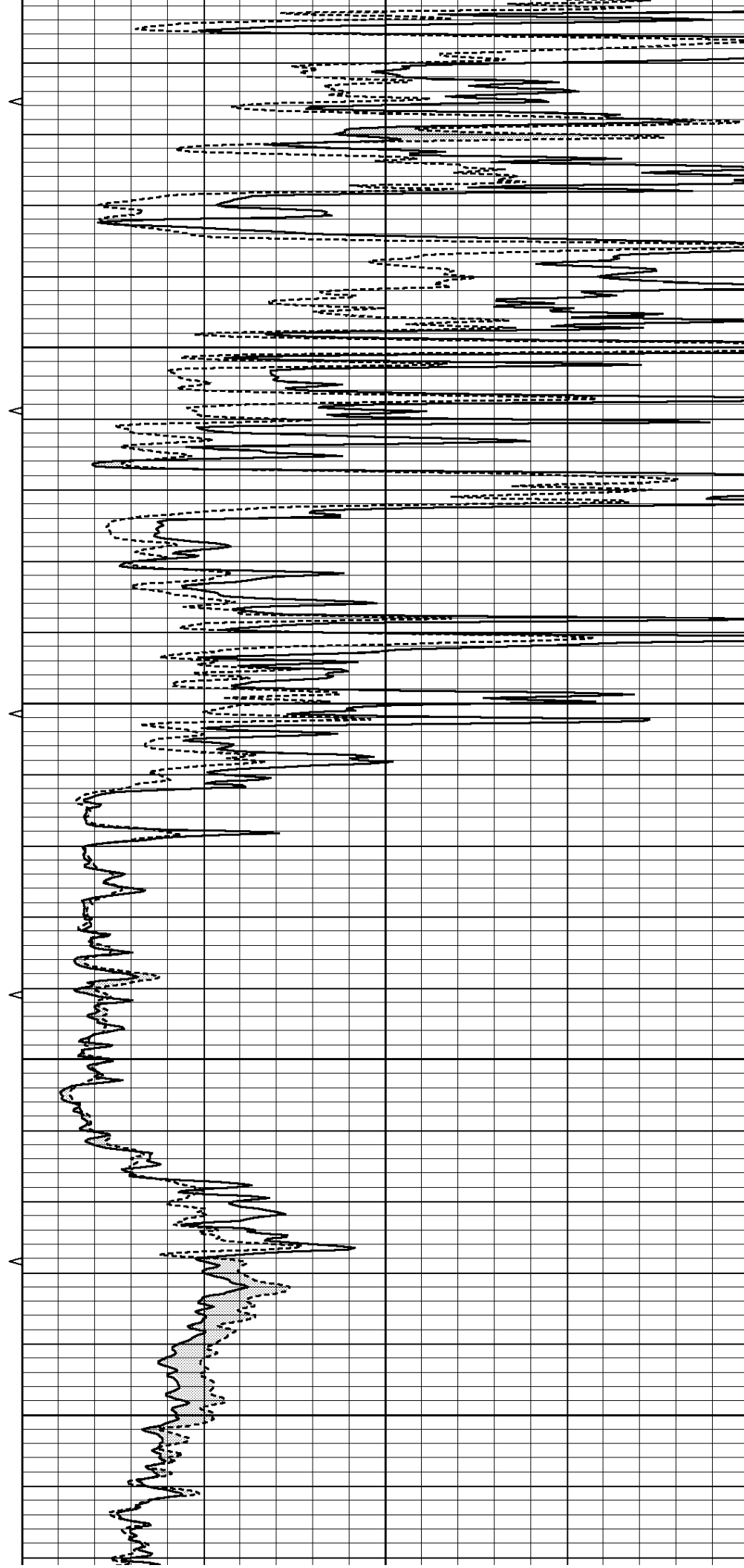


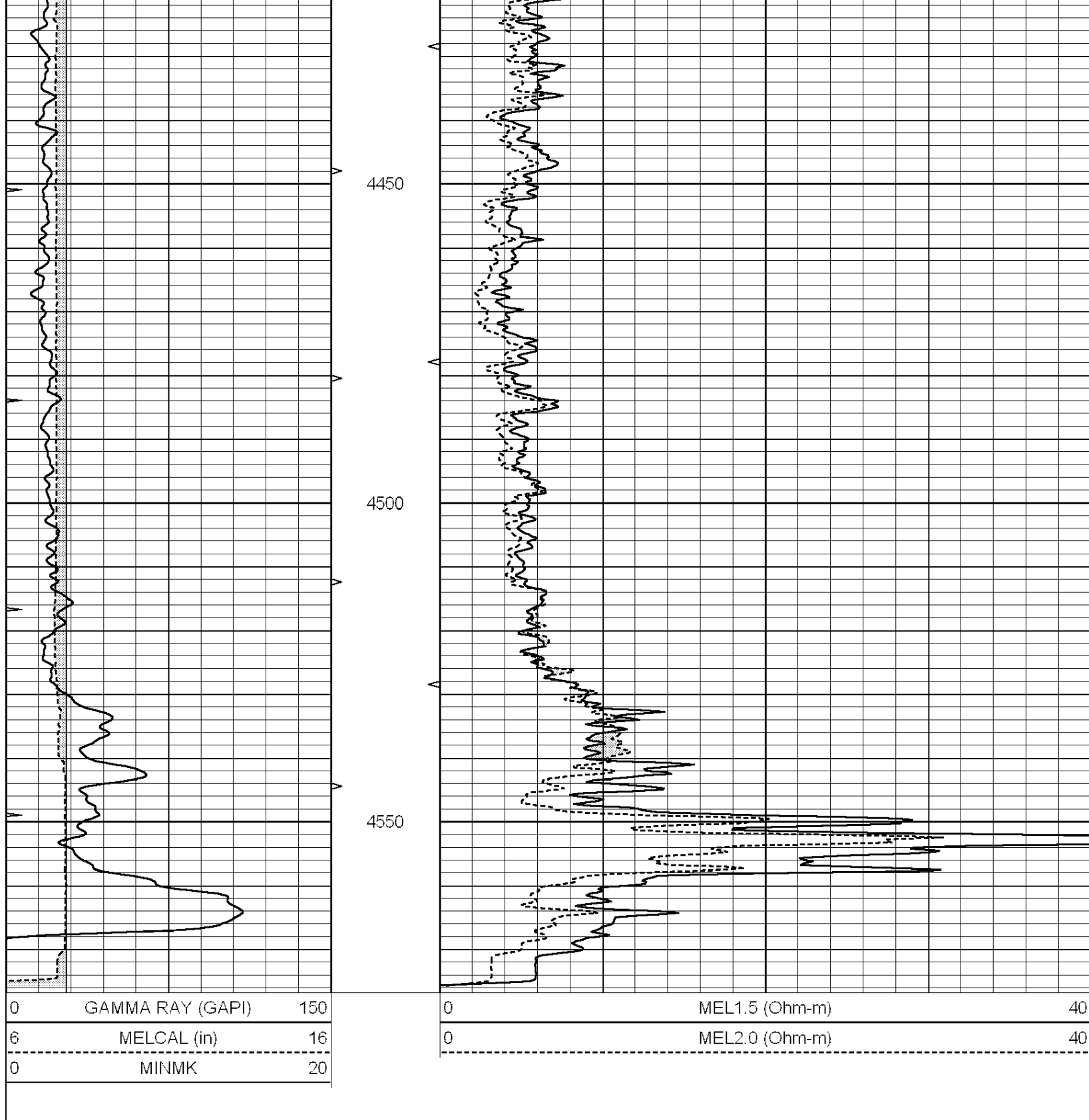
4250

4300

4350

4400





Calibration Report

Database File: 009119pe.db
Dataset Pathname: pass5
Dataset Creation: Fri May 18 00:09:46 2012 by Log Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO4
Tool Model: PROBE
Performed: Tue May 15 03:00:51 2012

Caliper Calibration: Gain=1.230 Offset=1.099

Caliper Calibration:

Gain=1.200

Offset=-1.000

References
Readings

Low Cal
7.600
5.449

High Cal
11.000
8.214

1.5" Calibration:

Gain=40.000

Offset=-0.800

References
Readings

Low Cal
0.000
0.009

High Cal
20.000
1.541

2" Calibration:

Gain=45.000

Offset=0.200

References
Readings

Low Cal
0.000
0.004

High Cal
20.000
1.198

Gamma Ray Calibration Report

Serial Number:
Tool Model:
Performed:

GR5
OPEN
Sun May 13 08:39:20 2012

Calibrator Value:

1.0

GAPI

Background Reading:
Calibrator Reading:

0.0
1.0

cps
cps

Sensitivity:

0.6500

GAPI/cps