MICRO LOG

Company	BLACK STONE PETROLEUM, LLC
Well	SWOB #3
Field	OTIS-ALBERT
County	RUSH
State	KANSAS

Company BLACK STONE PETROLEUM, LLC
Well SWOB #3
Field OTIS-ALBERT
County RUSH State KANSAS
Location: API # : 15-165-22147-00-00
564' FSL & 2310' FWL
SEC 26 TWP 18S RGE 16W

Other Services
CDL/CNL
DIL/SONIC

Permanent Datum GROUND LEVEL Elevation 1941'
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1950
D.F. 1948
G.L. 1941

Date	07/09/17		
Run Number	TWO		
Depth Driller	3637		
Depth Logger	3644		
Bottom Logged Interval	3620		
Top Log Interval	1500		
Casing Driller	10 3/4" @ 970		
Casing Logger	970		
Bit Size	8 3/4"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10000 PPM	
Density / Viscosity	9.0/48		
pH / Fluid Loss	10.8/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.50@78		
Rmf @ Meas. Temp	.38@78		
Rmc @ Meas. Temp	.60@78		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.34@112		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	112F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	CHRIS LEIKER		

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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

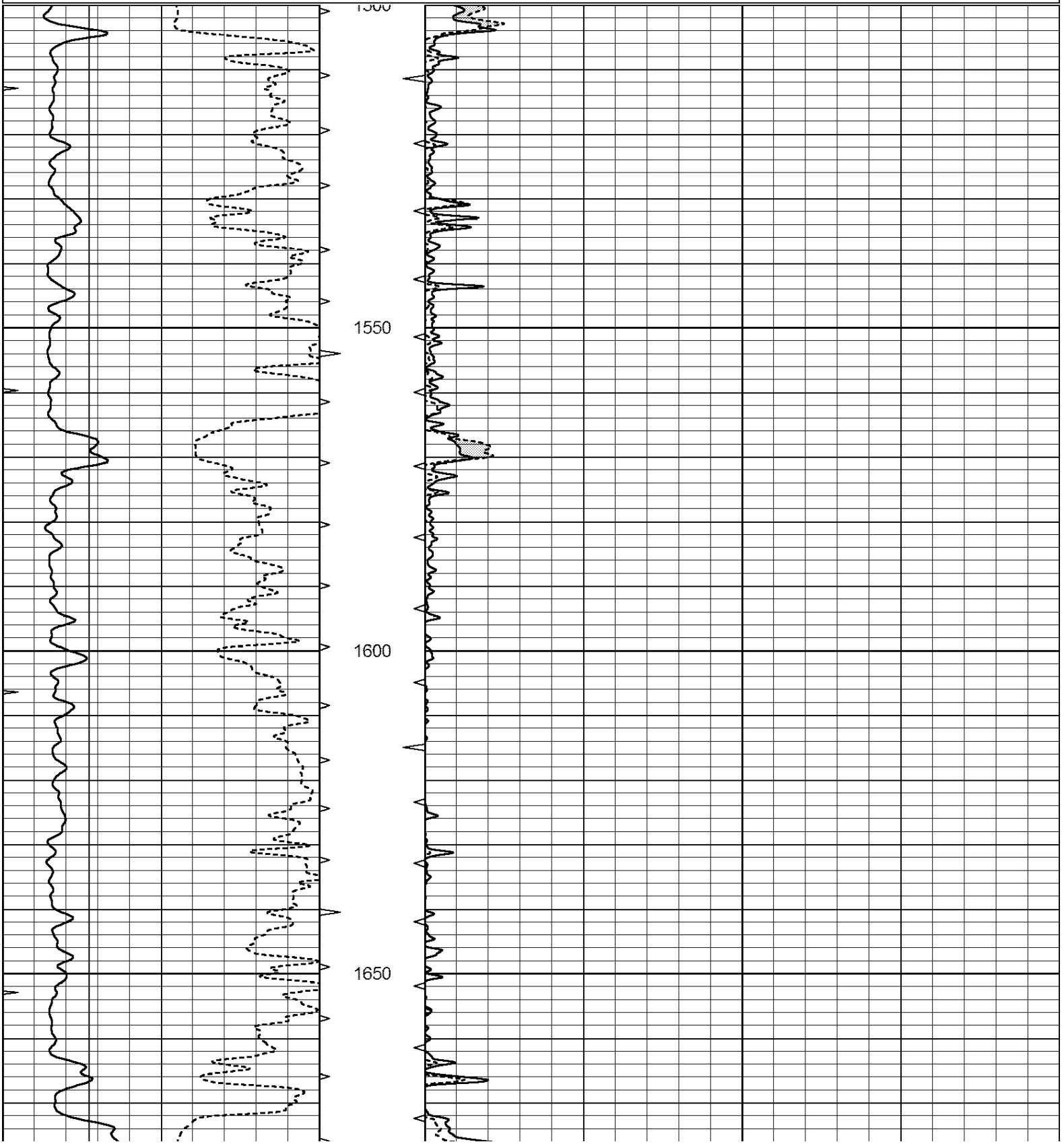
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

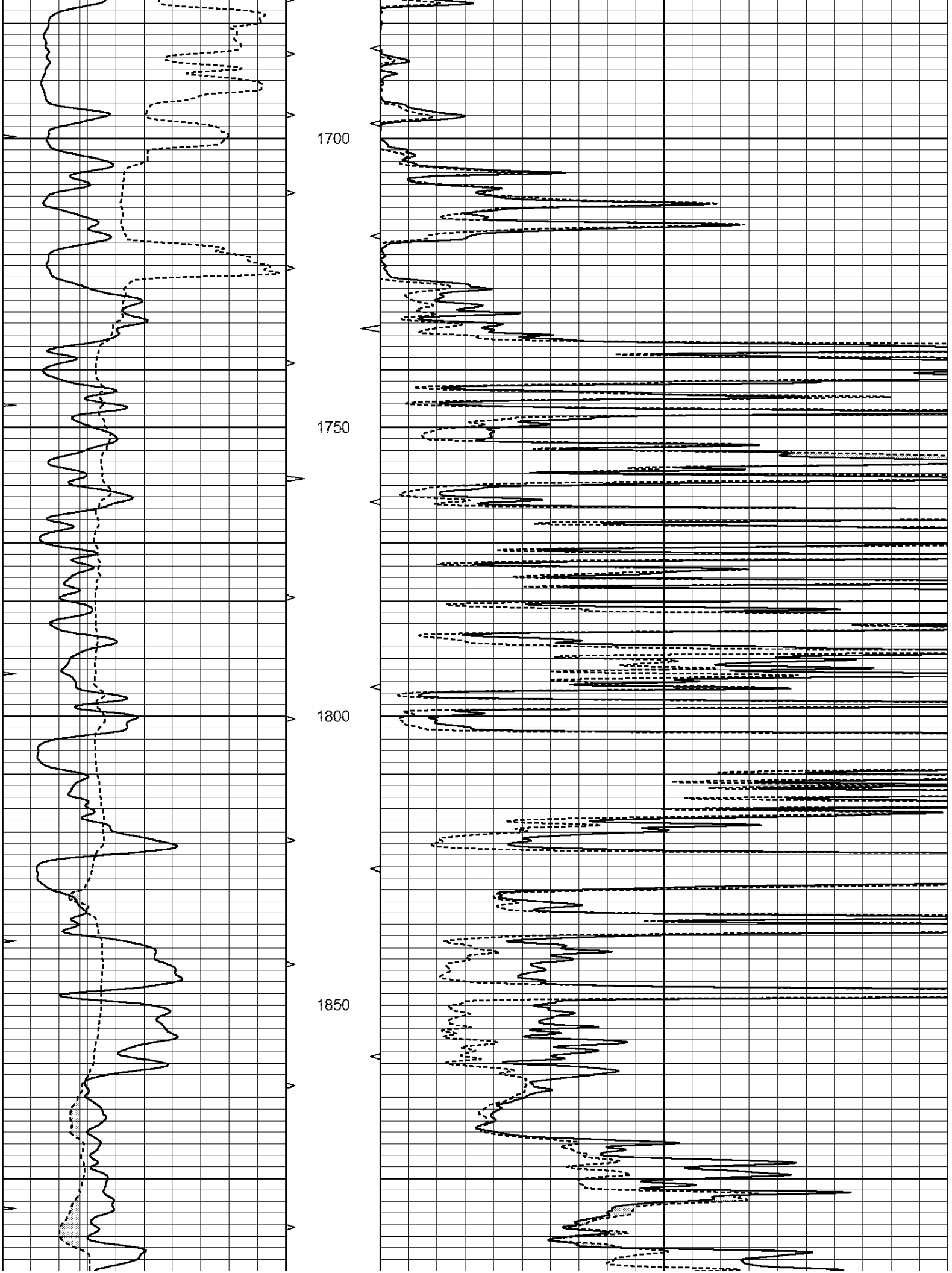
DIRECTIONS
96 HIGHWAY OUT OF RUSH CENTER EAST TO 380 RD.
SOUTH 1 MILE
EAST 3/4 MILE, NORTH INTO.

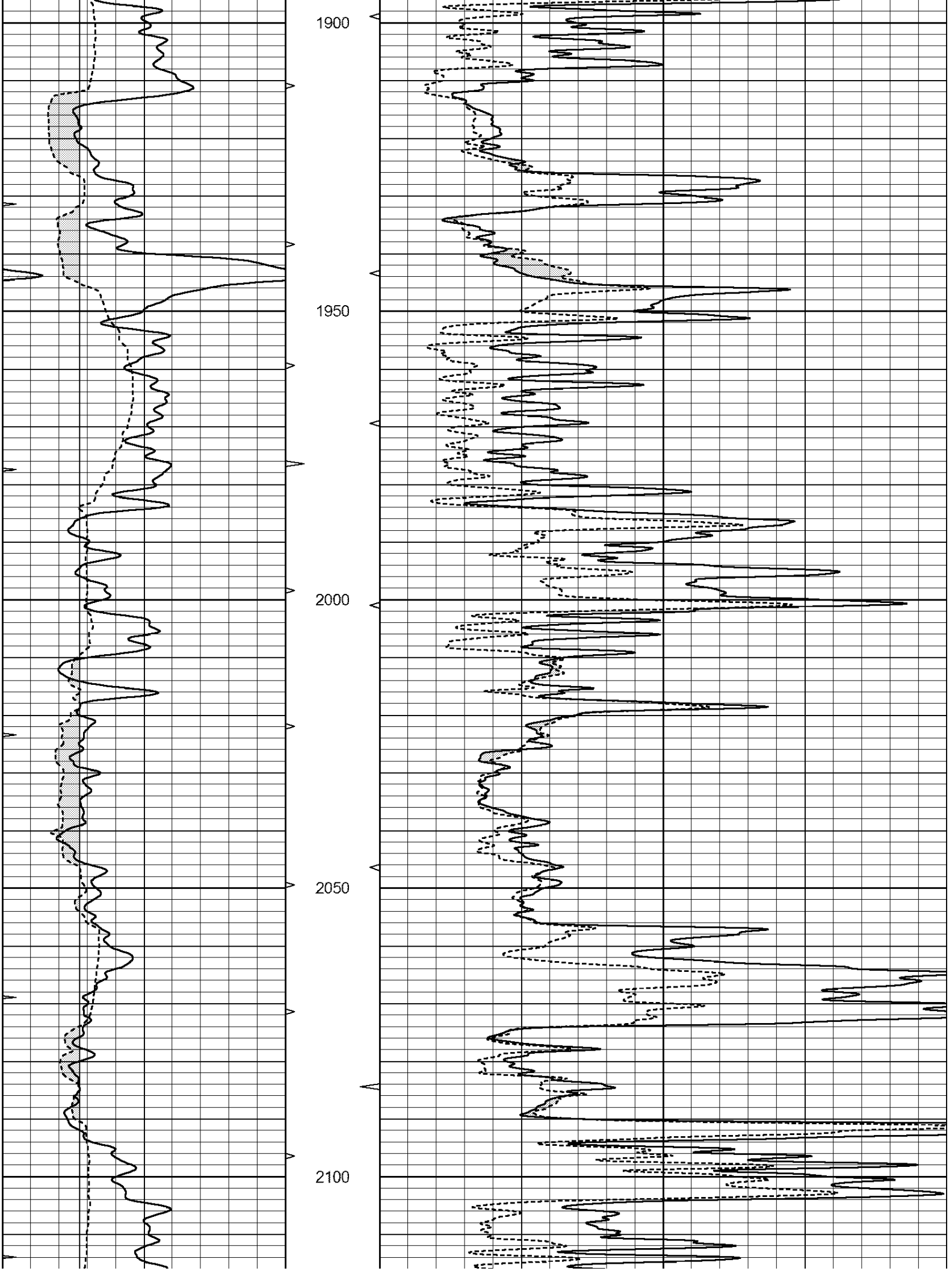
MAIN PASS

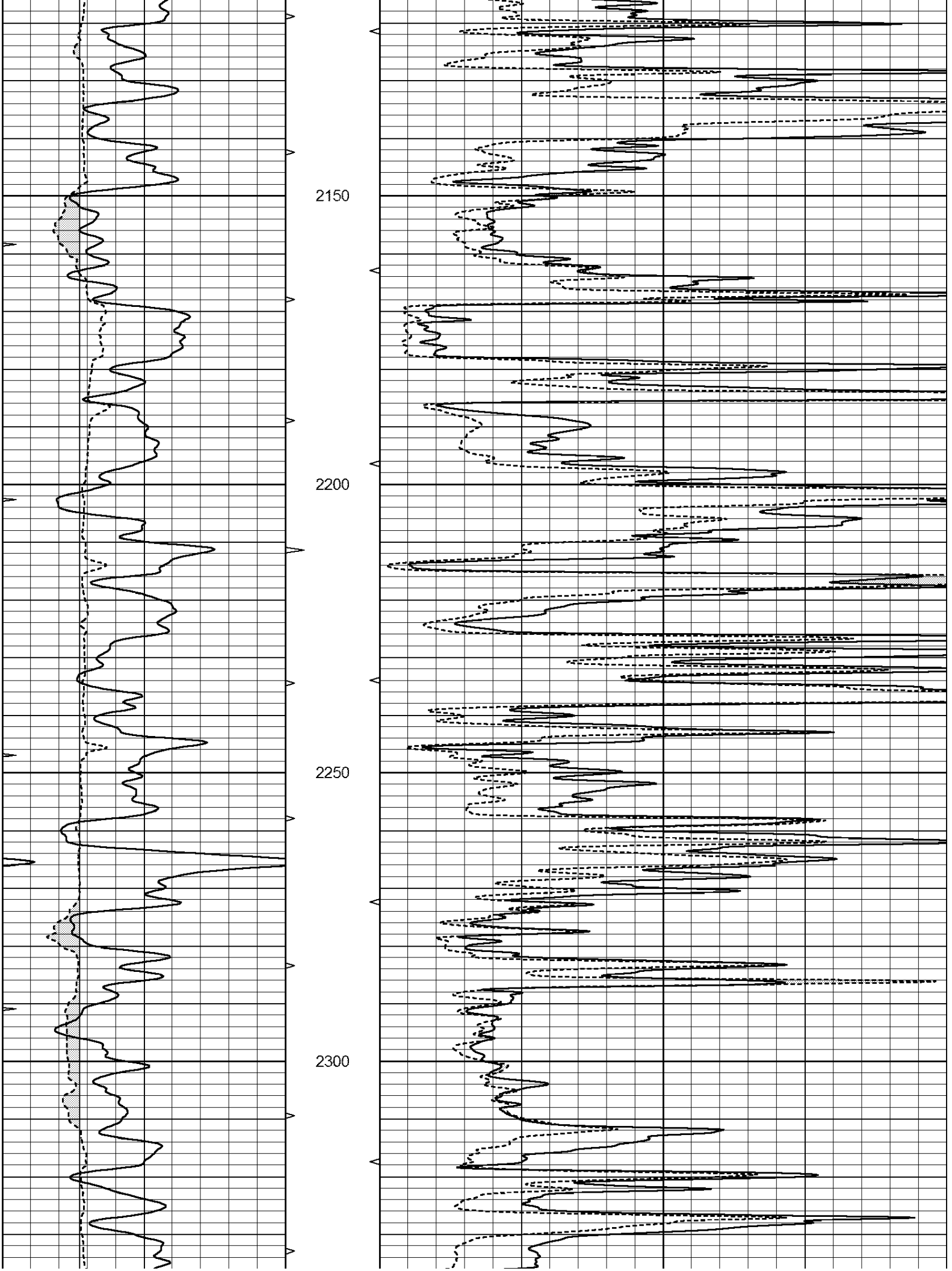
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Dataset Pathname: pass5.1
Presentation Format: _micro
Dataset Creation: Sun Jul 09 13:14:36 2017 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

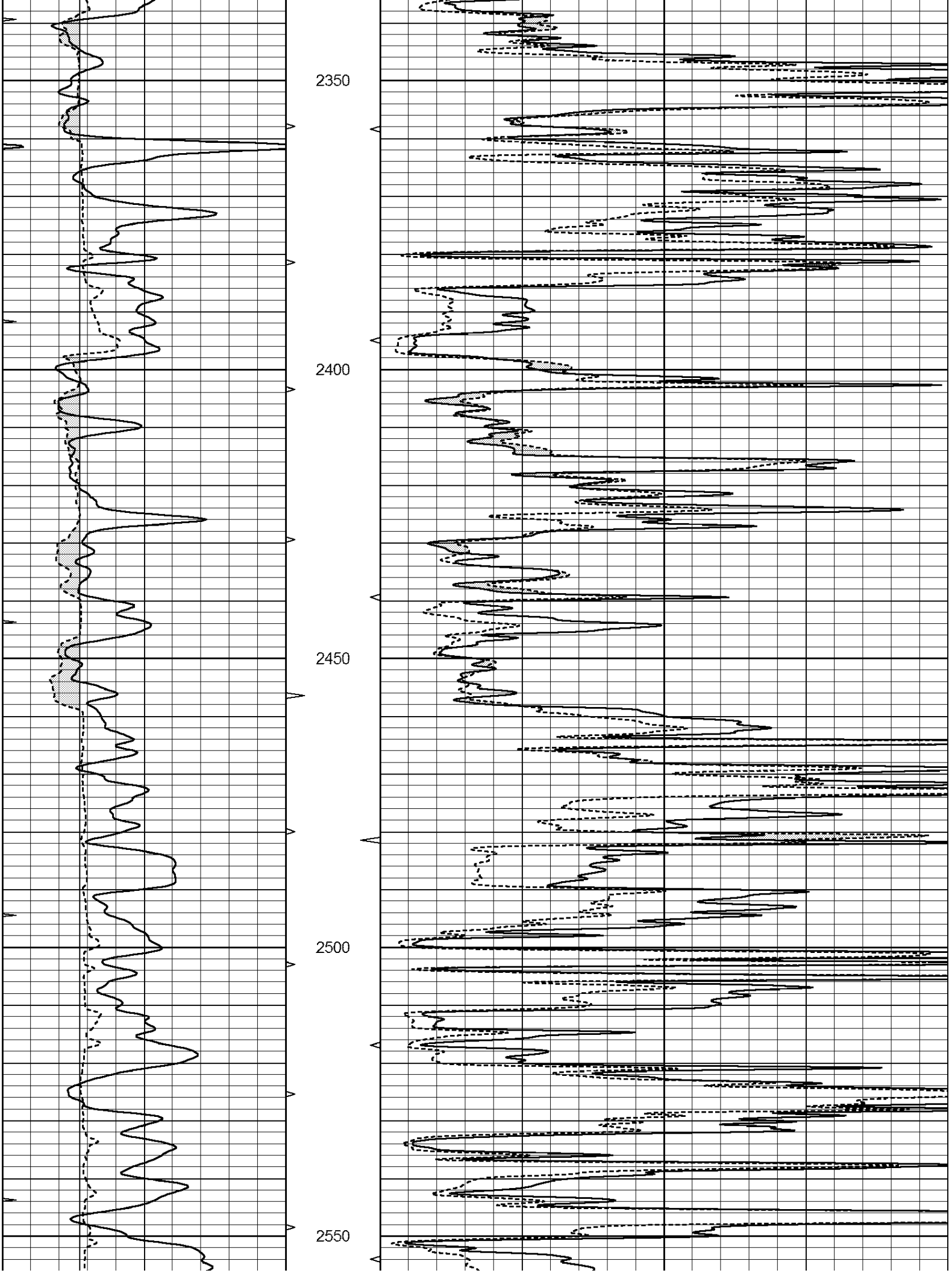
0 GAMMA RAY (GAPI) 150	ABHV	0 MEL1.5 (Ohm-m) 20
6 CALIPER (in) 16	10 (ft3) 0	0 MEL2.0 (Ohm-m) 20
0 MINMK 20	TBHV	
	0 (ft3) 10	

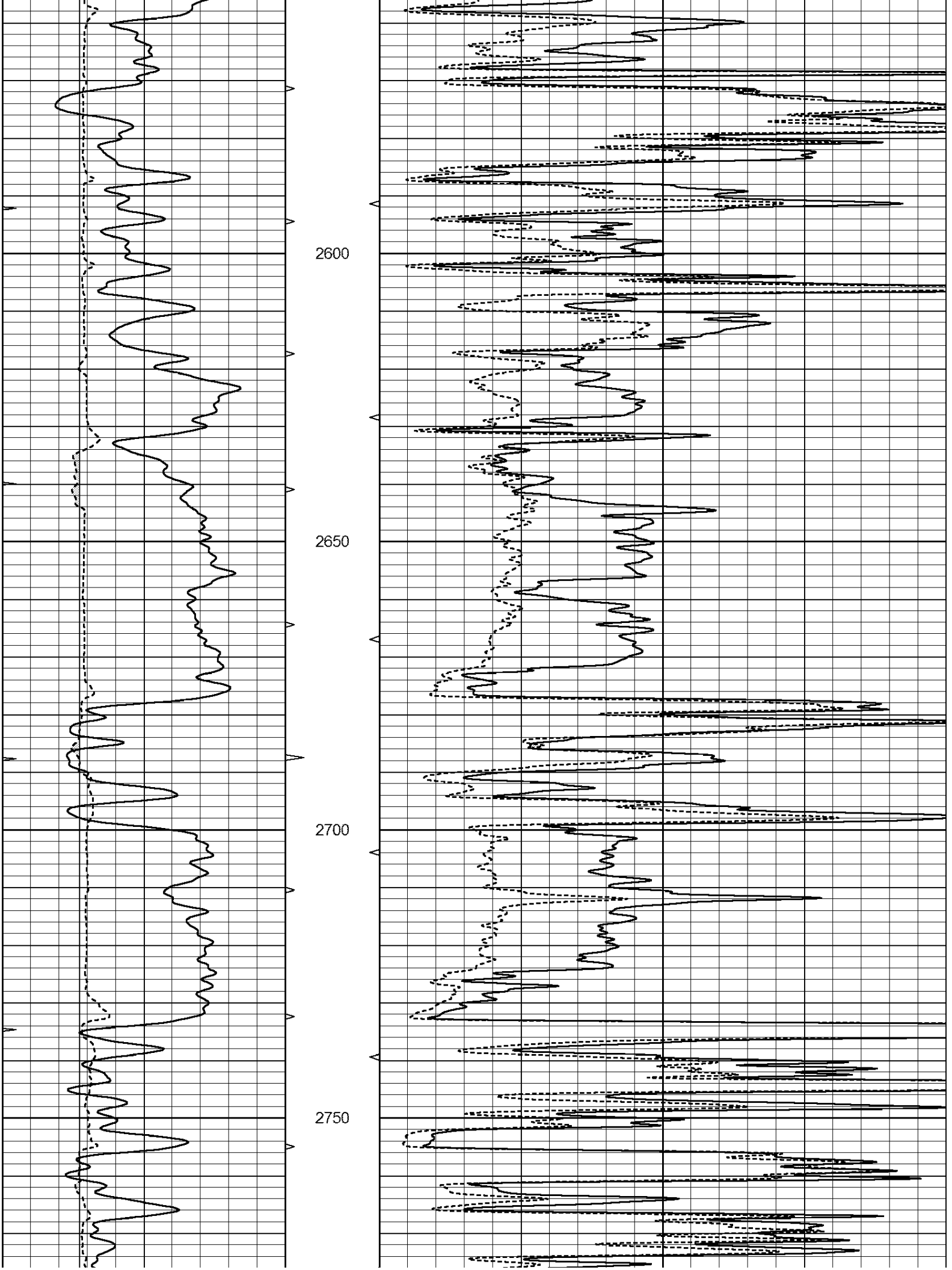


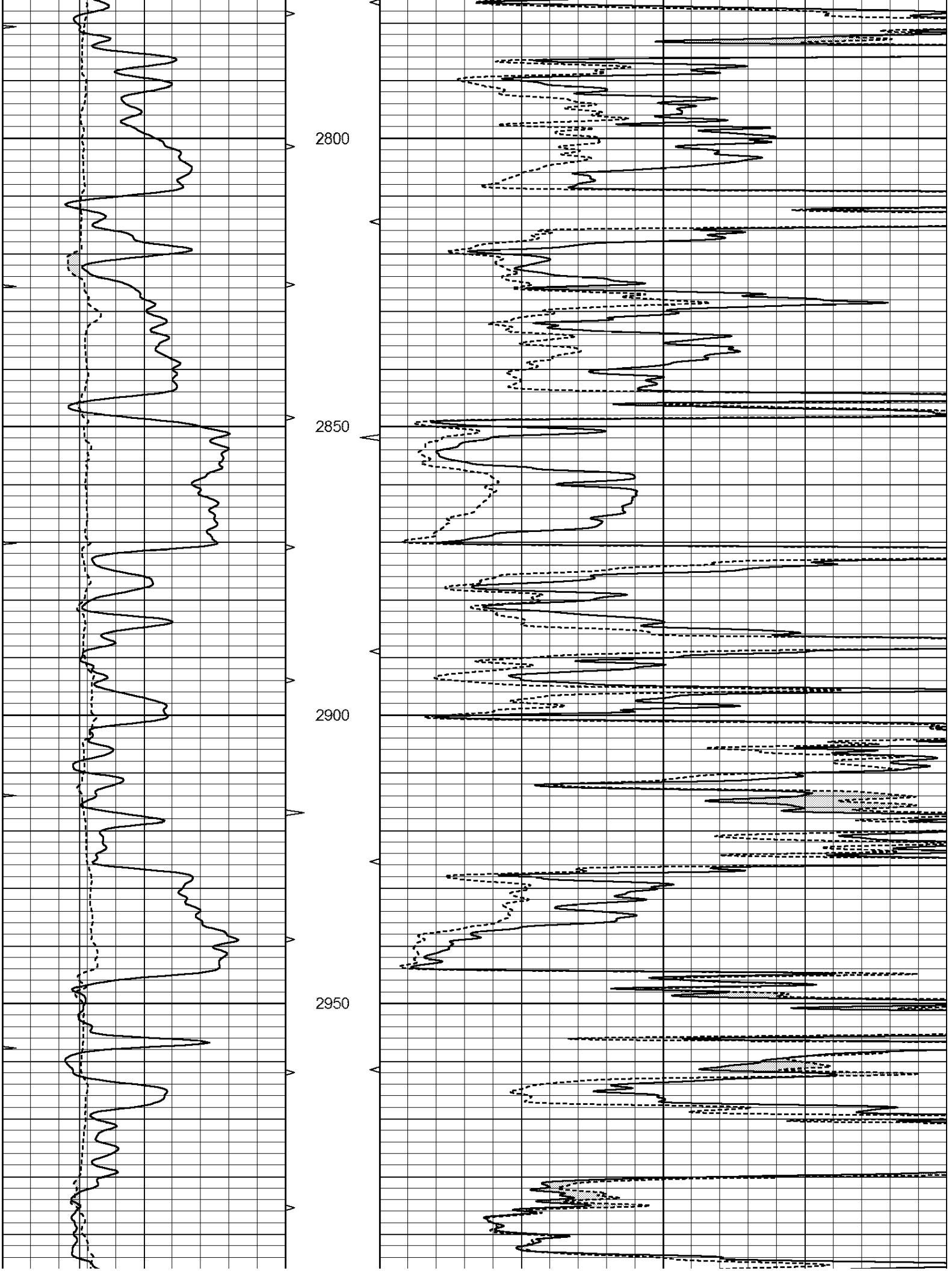

1700
1750
1800
1850

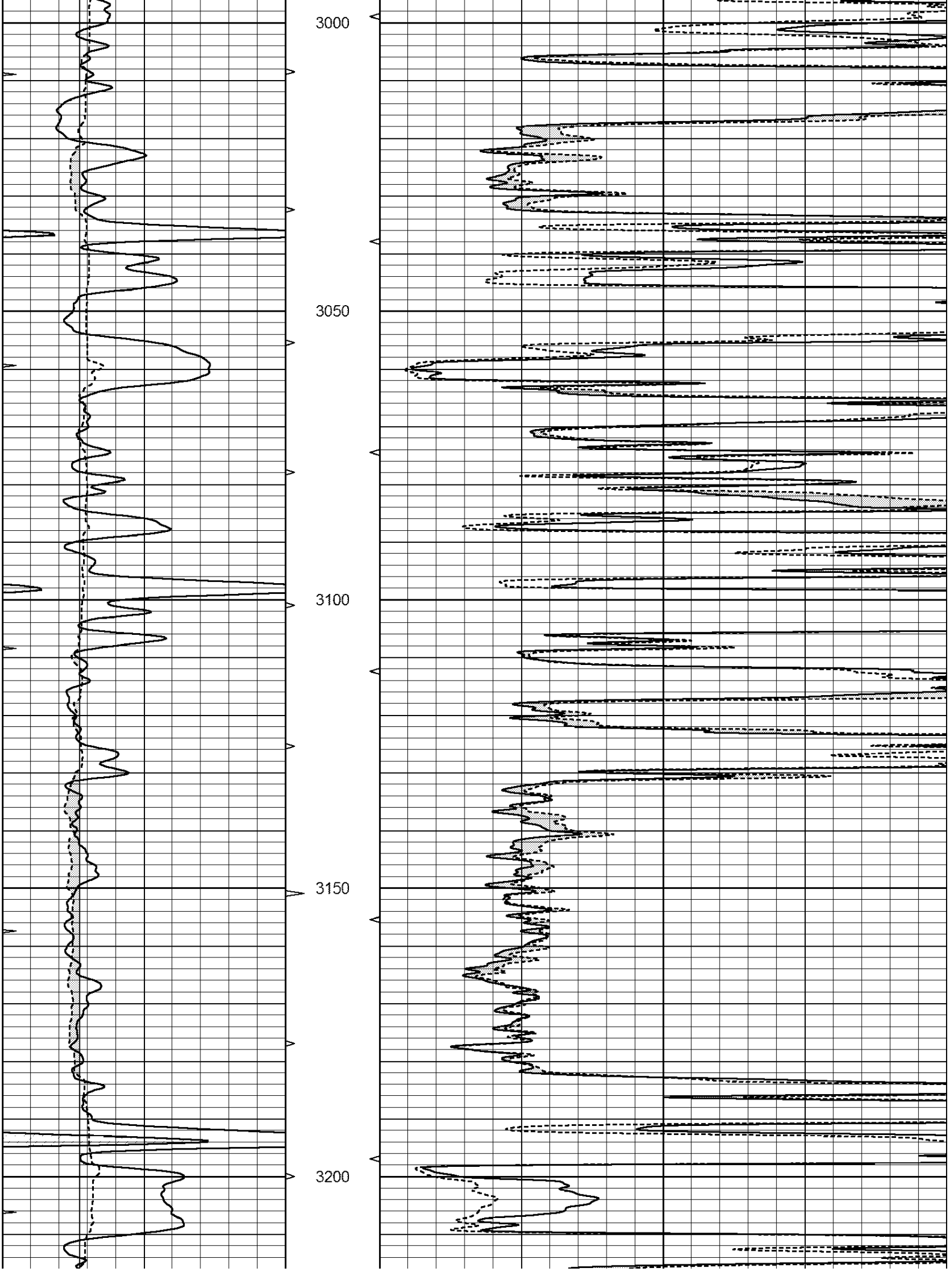

1900
1950
2000
2050
2100

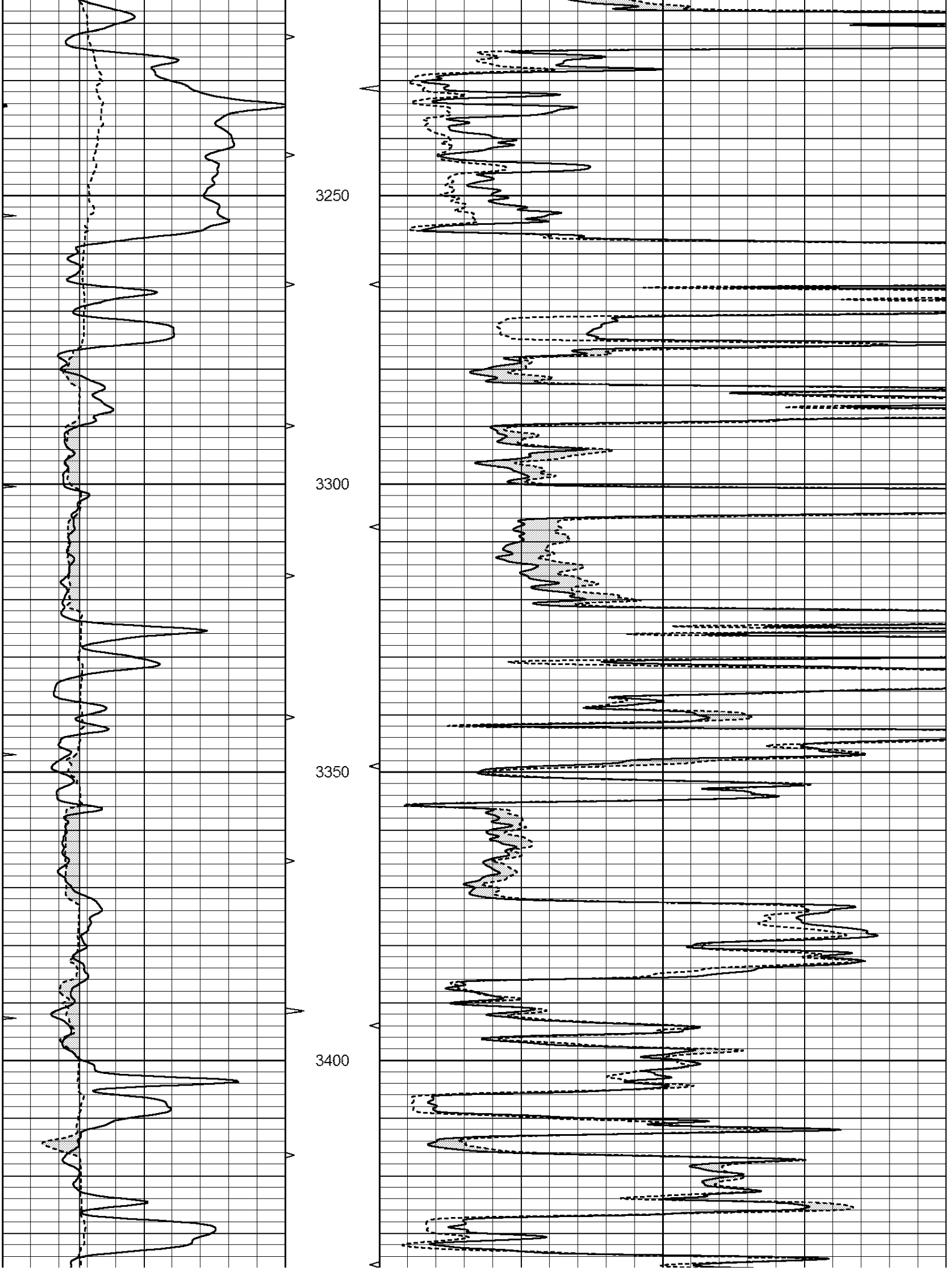

2150
2200
2250
2300

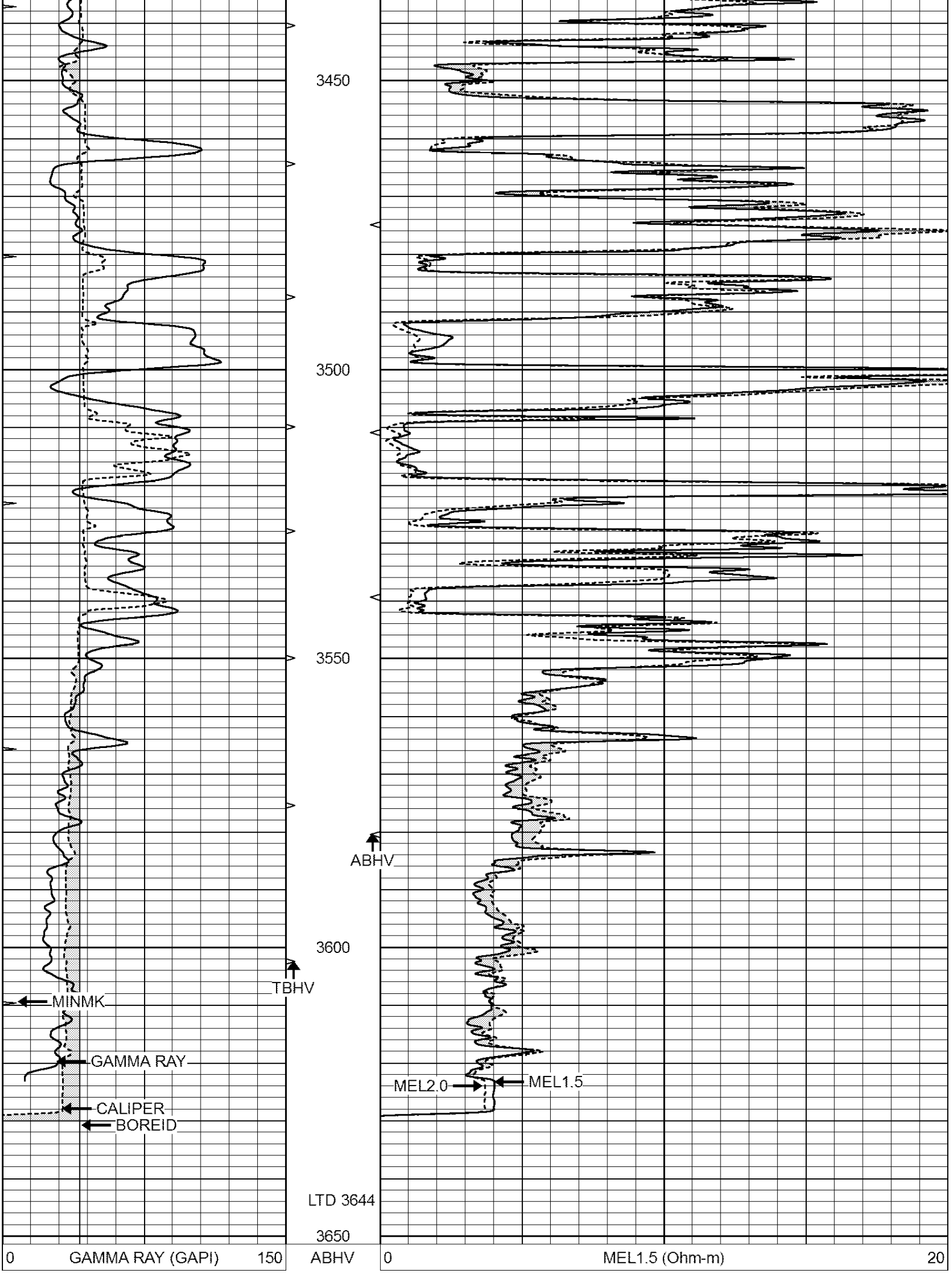

2350
2400
2450
2500
2550


2600
2650
2700
2750


2800
2850
2900
2950


3000
3050
3100
3150
3200


3250
3300
3350
3400

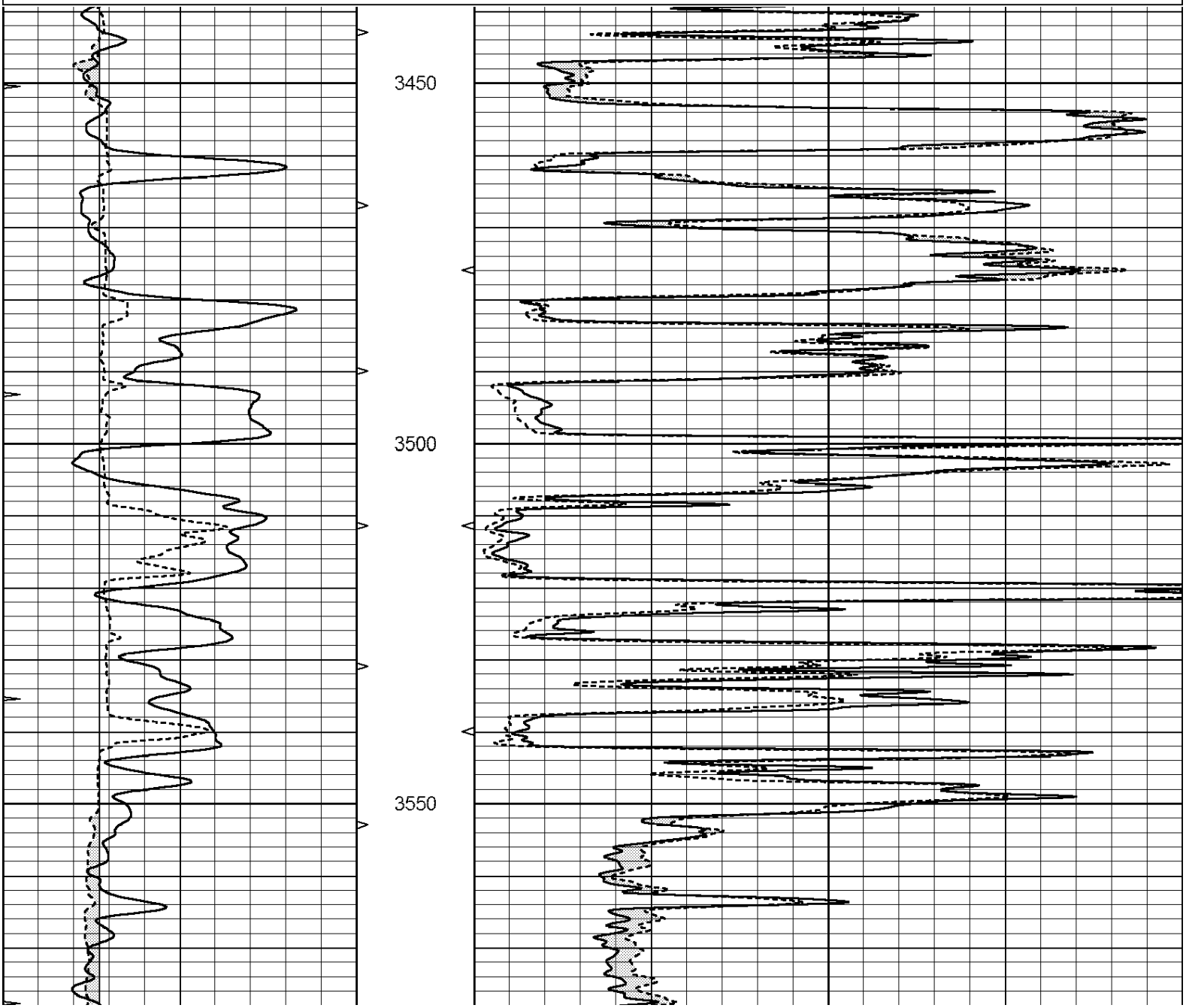

3450
3500
3550
3600
3650
ABHV
TBHV
MINMK
GAMMA RAY
CALIPER
BOREID
MEL2.0
MEL1.5
LTD 3644
0
GAMMA RAY (GAPI)
150
ABHV
0
MEL1.5 (Ohm-m)
20

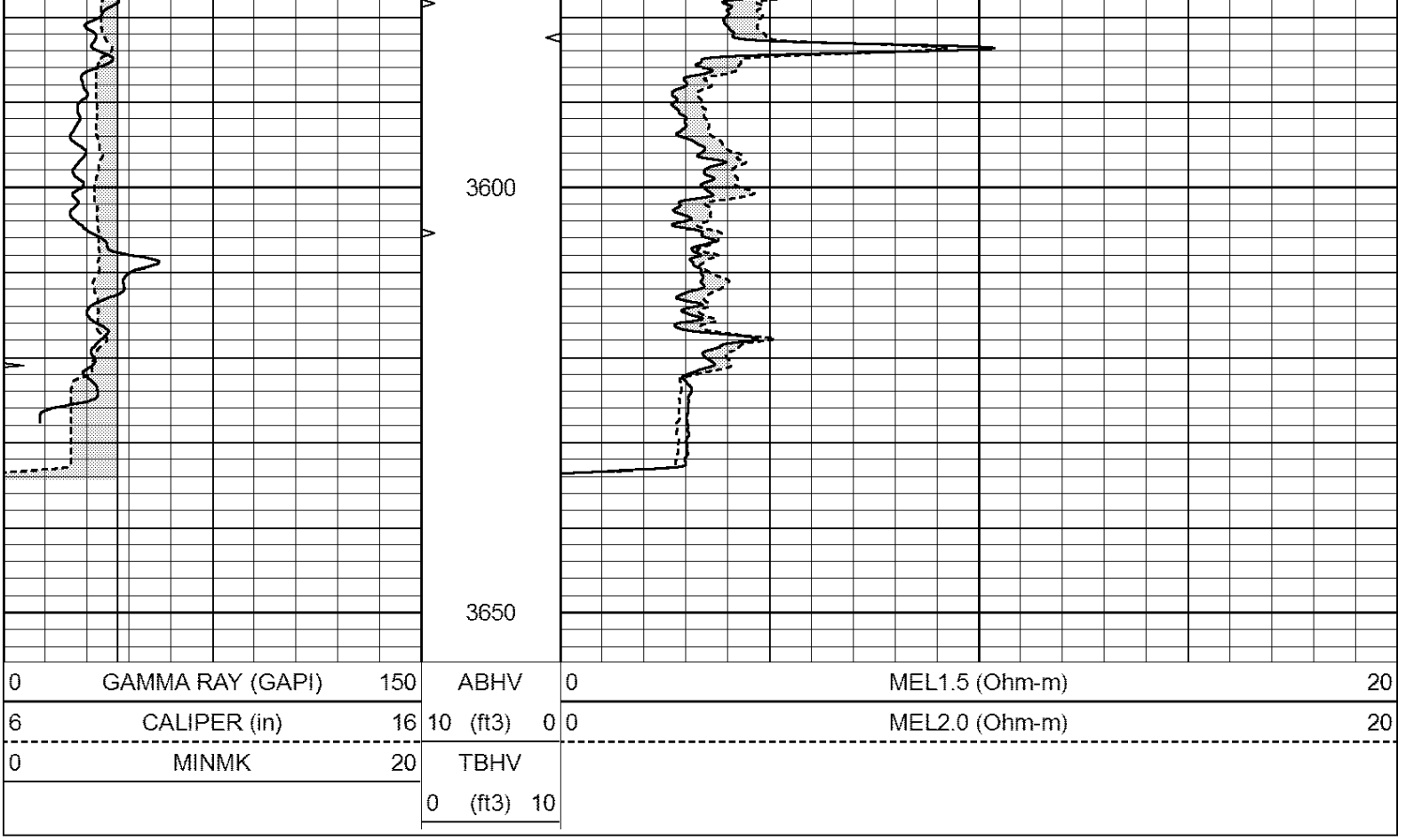
6	CALIPER (in) 16	10	(ft3) 0	0	MEL2.0 (Ohm-m) 20
0	MINMK 20		TBHV		
		0	(ft3) 10		

REPEAT SECTION

Database File: 1801ddn.db
Dataset Pathname: pass4R
Presentation Format: _micro
Dataset Creation: Sun Jul 09 12:20:12 2017 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI) 150		ABHV	0	MEL1.5 (Ohm-m) 20
6	CALIPER (in) 16	10	(ft3) 0	0	MEL2.0 (Ohm-m) 20
0	MINMK 20		TBHV		
		0	(ft3) 10		





Calibration Report

Database File: 1801ddn.db
Dataset Pathname: pass4R
Dataset Creation: Sun Jul 09 12:20:12 2017 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
Tool Model: PROBE
Performed: Mon Apr 10 10:24:59 2017

Caliper Calibration: Gain=3.960 Offset=4.551

	Low Cal	High Cal
References	7.000	14.000
Readings	0.555	2.323

1.5" Calibration: Gain=46.075 Offset=-0.400

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196

2" Calibration: Gain=48.000 Offset=-1.000

	Low Cal	High Cal
References	0.000	20.000
Readings	0.006	0.913

Gamma Ray Calibration Report

Serial Number: GR2
Tool Model: OPEN
Performed: Wed Jun 07 21:43:13 2017

Calibrator Value: 1.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3200	GAPI/cps