NABORS COMPLETION & PRODUCTION SERVICES CO.

MICRO LOG

Company	LOTUS OPERATING COMPANY, LLC.
Well	#5 ACHENBACH
Field	STRANATHAN
County	BARBER
State	KANSAS

Company LOTUS OPERATING COMPANY, LLC.

Well #5 ACHENBACH

Field STRANATHAN

County BARBER State KANSAS

Location: API # : 15-007-24258-0000

1485' FNL & 660' FWL

SEC 1 TWP 35S RGE 13W

Permanent Datum GROUND LEVEL Elevation 1455

Log Measured From KELLY BUSHING 13' A.G.L.

Drilling Measured From KELLY BUSHING

Other Services: CDL/CNL/PE, DIL/SON/FF

Elevation: K.B. 1468, D.F. 1466, G.L. 1455

Date	12/11/14		
Run Number	TWO		
Depth Driller	5670		
Depth Logger	5666		
Bottom Logged Interval	5650		
Top Log Interval	3800		
Casing Driller	10 3/4"@300'		
Casing Logger	299		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.6/48		
pH / Fluid Loss	11.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@85F		
Rmf @ Meas. Temp	.450@85F		
Rmc @ Meas. Temp	.720@85F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.389@131F		
Time Circulation Stopped	5.5 HOURS		
Time Logger on Bottom	7:00 A.M.		
Maximum Recorded Temperature	131F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TIM HELLMAN		

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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 "NABORS" HAYS, KANSAS (785) 628-6395

DIRECTIONS

HARDTNER, KS., 2 1/2W. ON BLKTOP TO "GYP HILL RD.", 1N., E. INTO

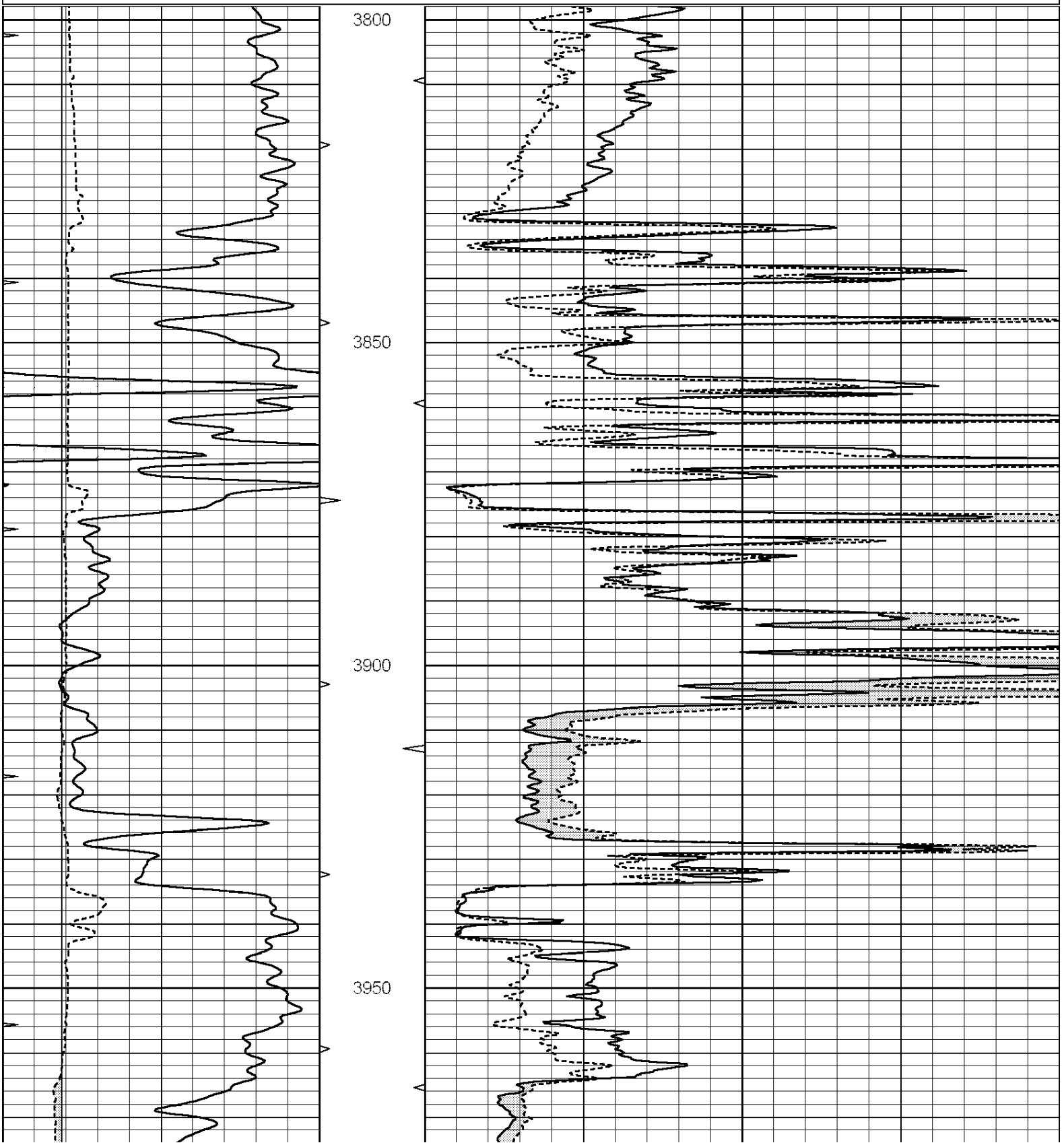
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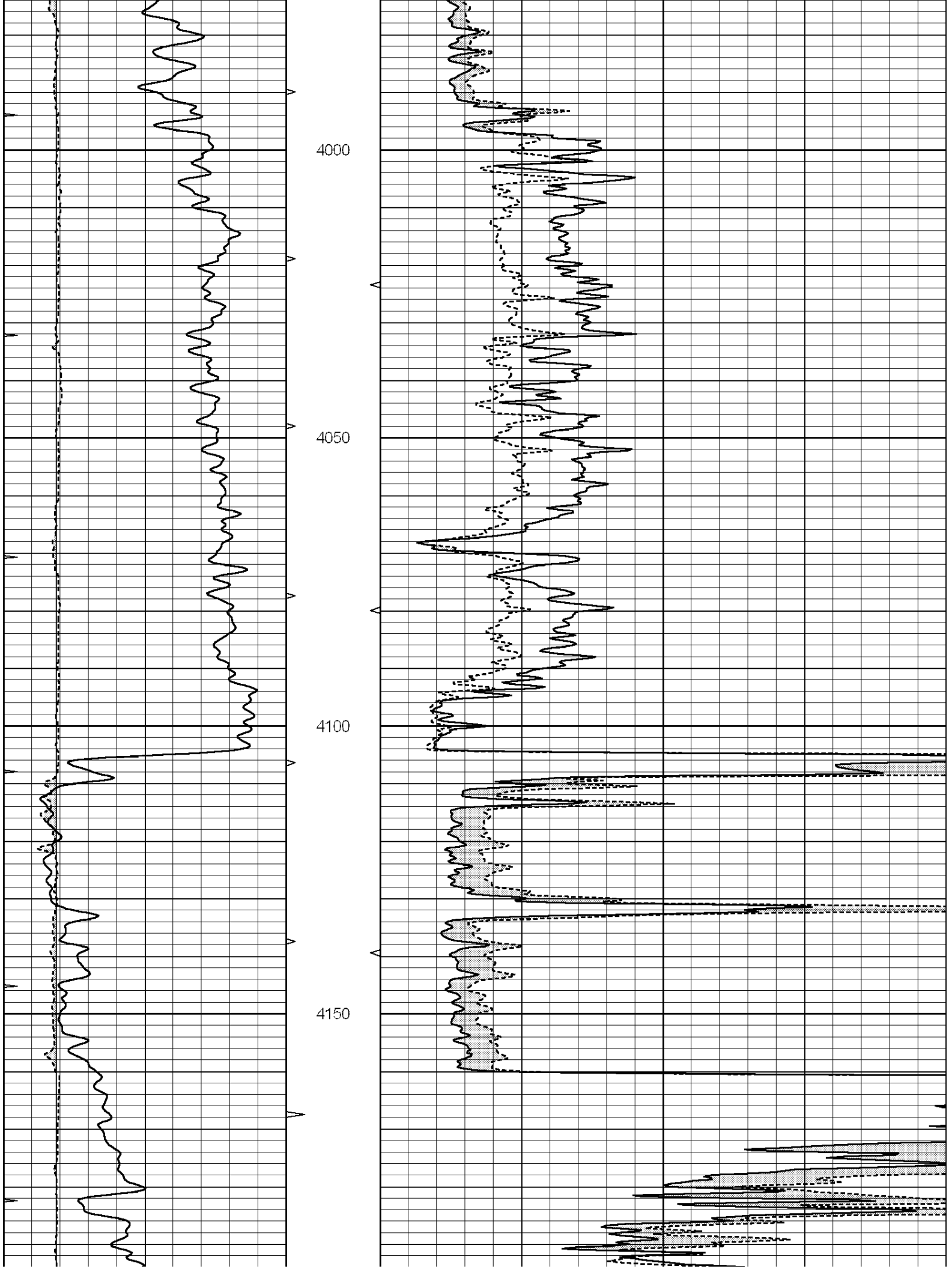
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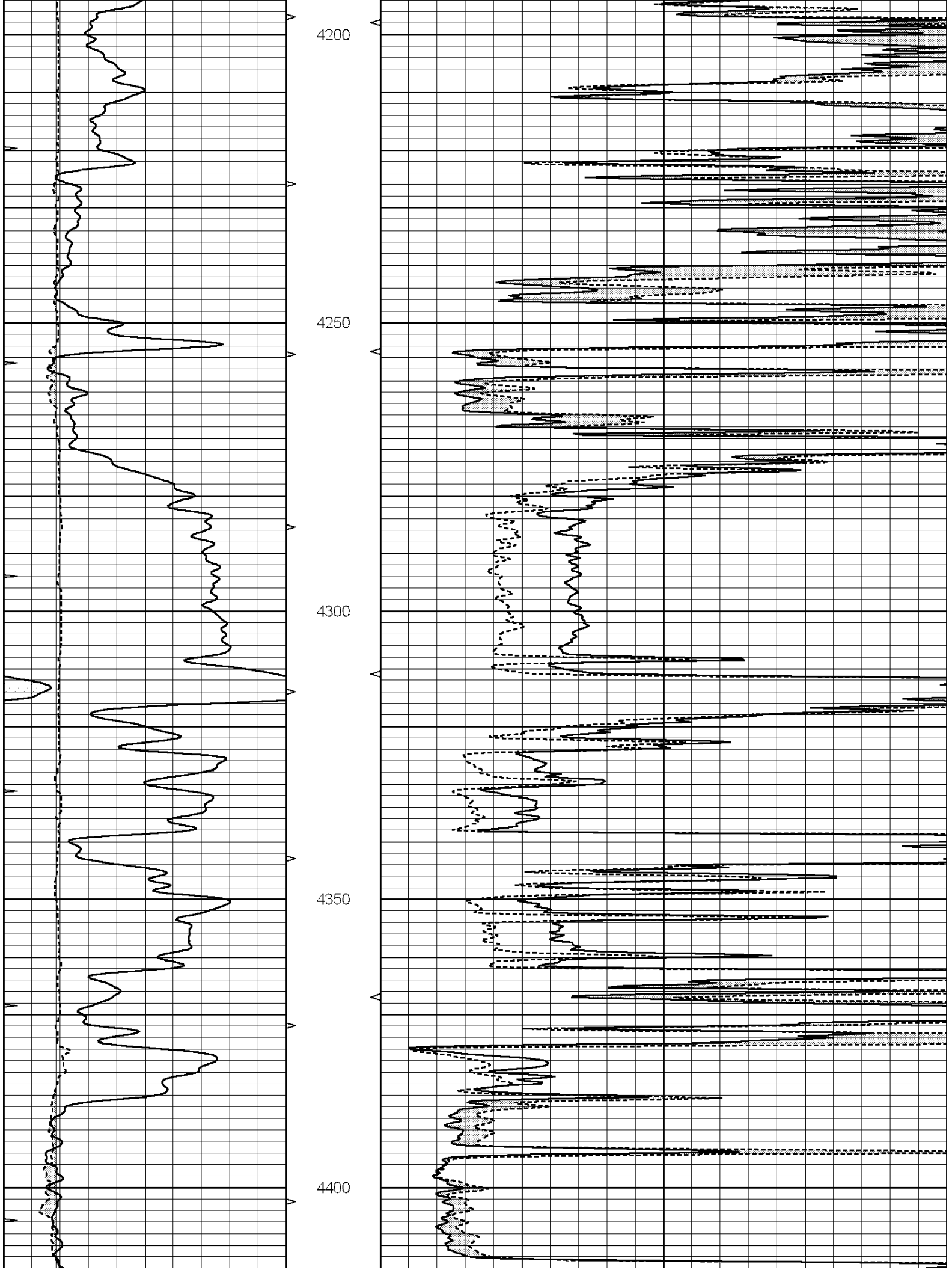
SERVICES CO.

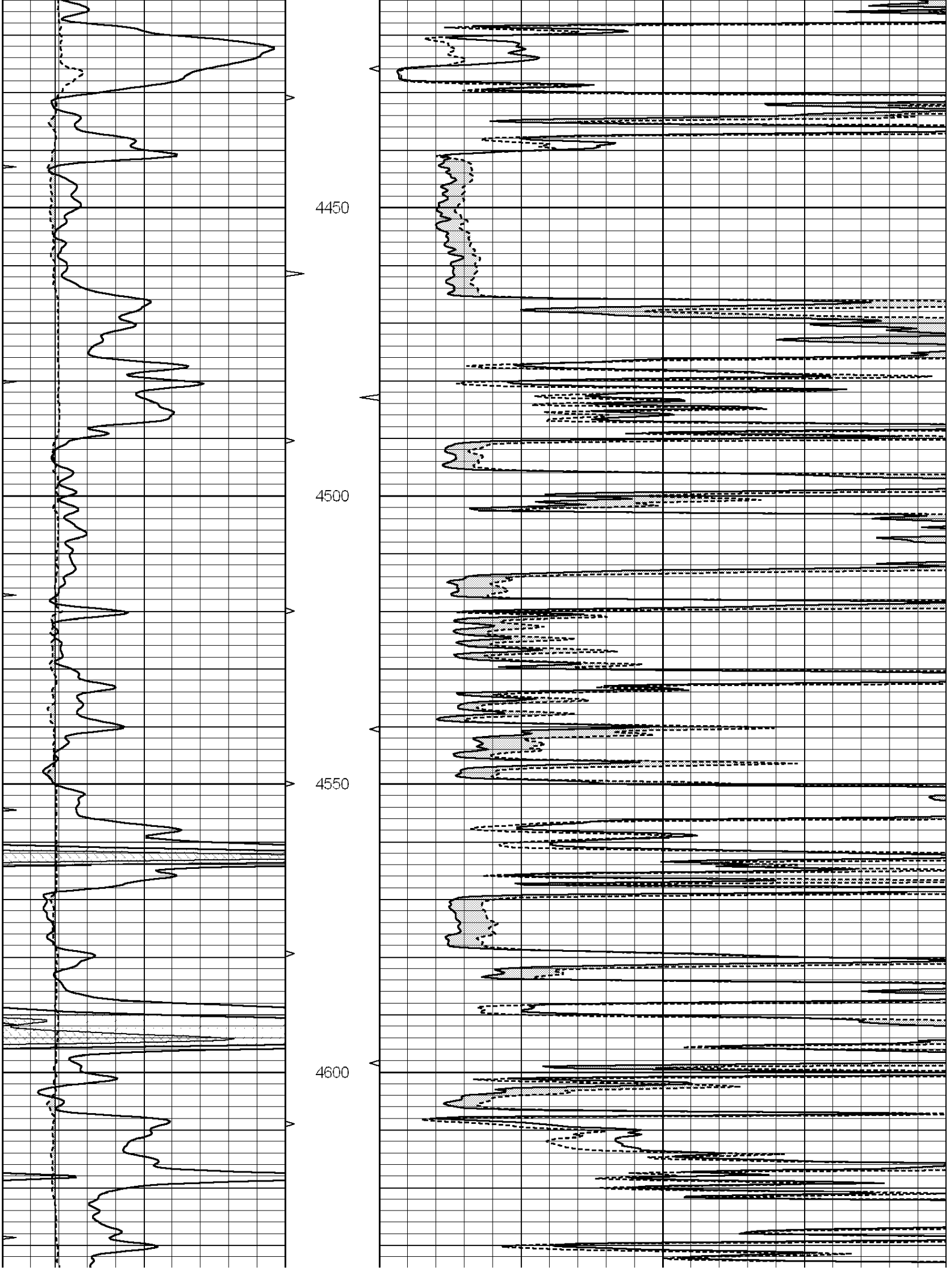
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Presentation Format: micro
Dataset Creation: Thu Dec 11 11:52:38 2014
Charted by: Depth in Feet scaled 1:240

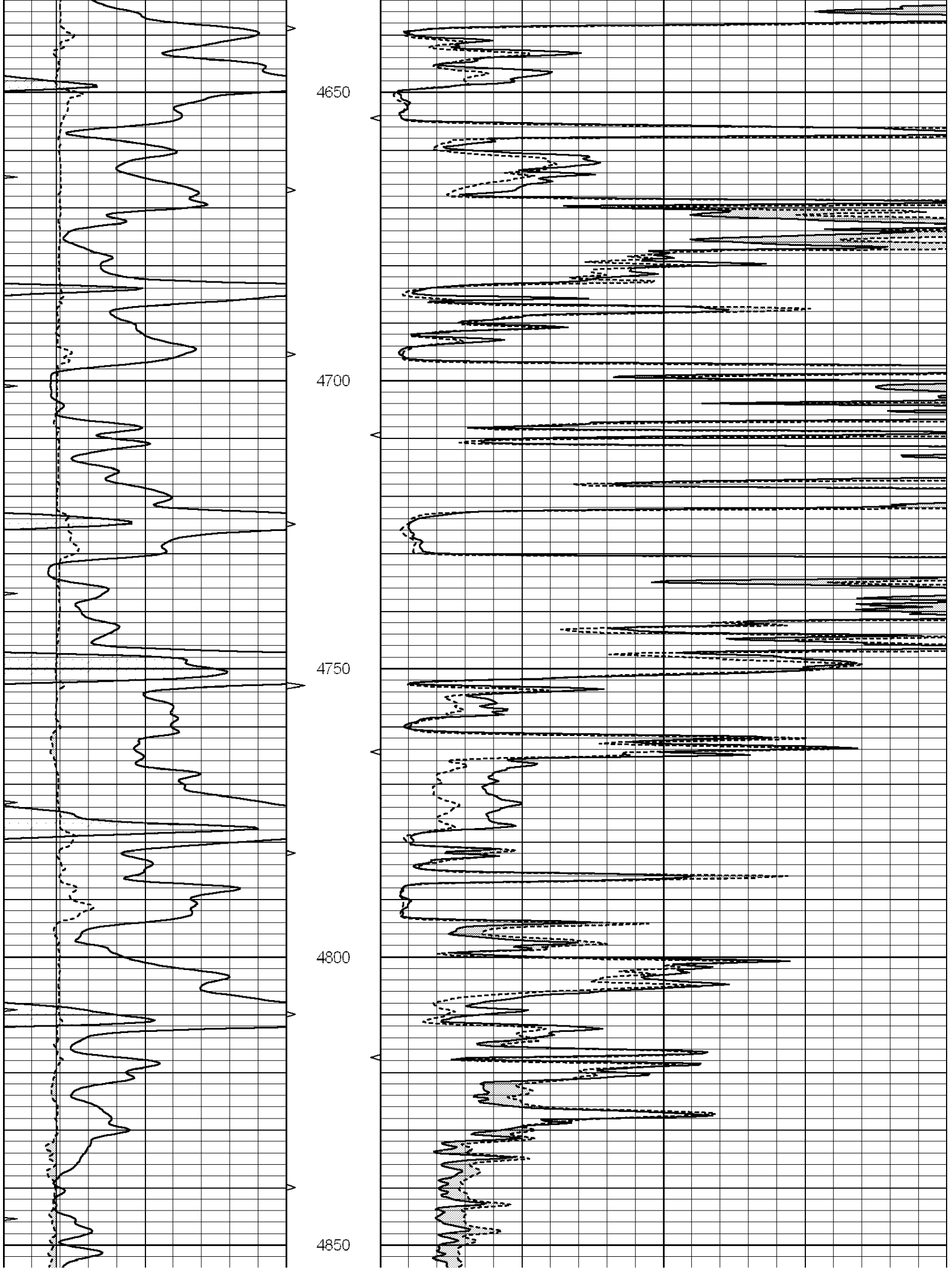
0 GAMMA RAY (GAPI) 150	ABHV	0 MEL1.5 (Ohm-m) 40
6 CALIPER (in) 16	10 (ft3) 0	0 MEL 20 (Ohm-m) 40
0 MINMK 20	TBHV	
	0 (ft3) 10	

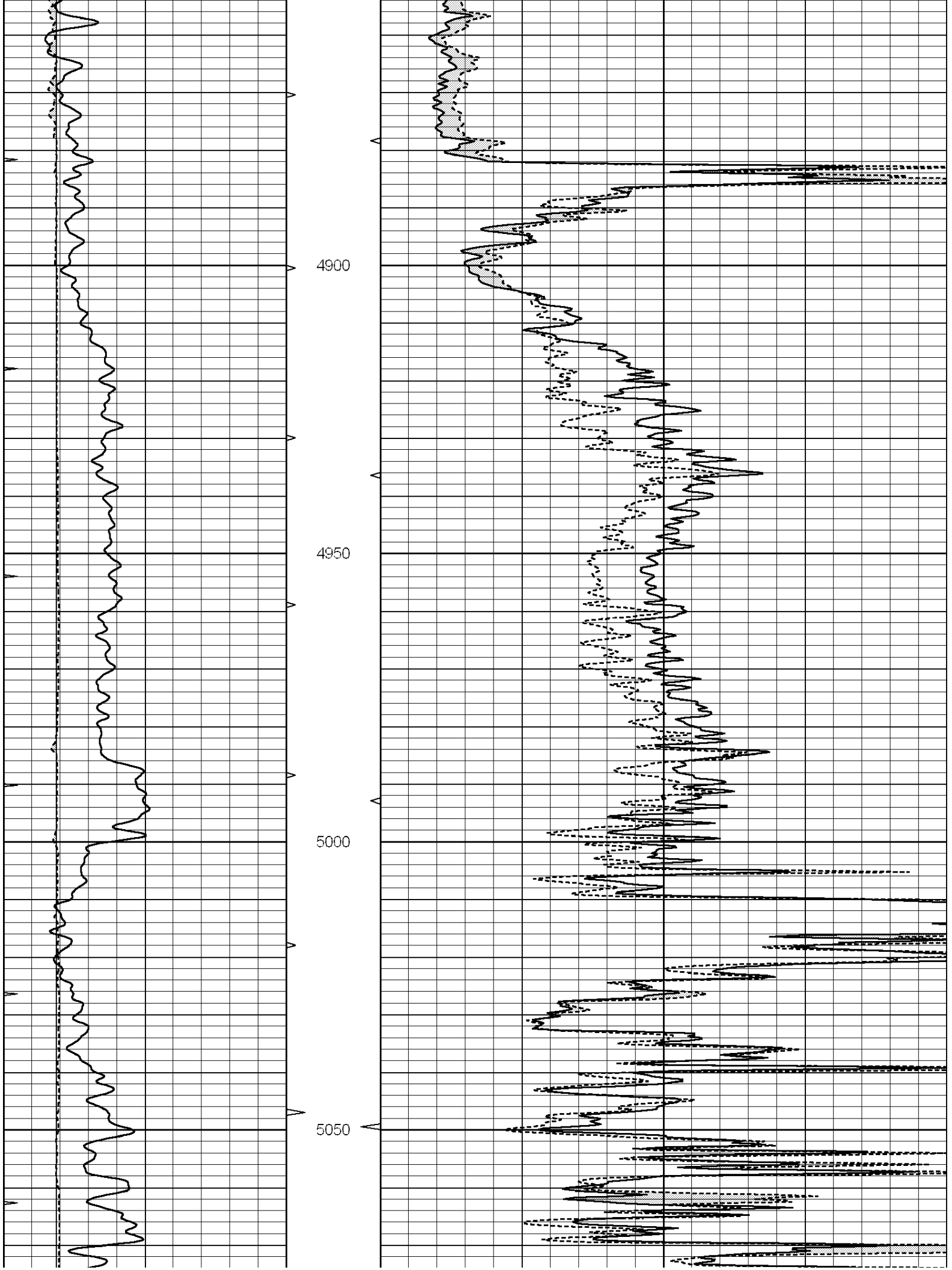


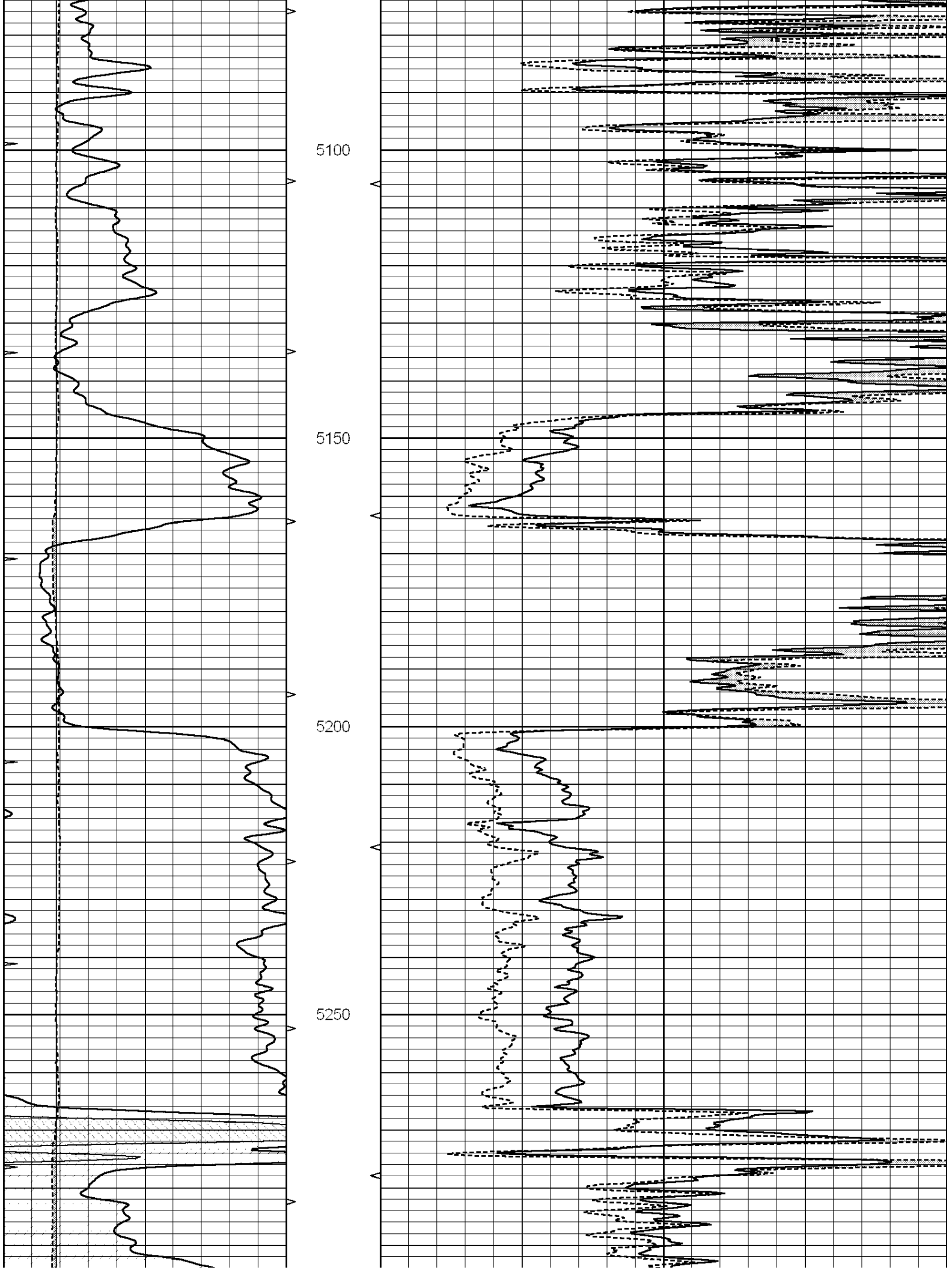

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4150

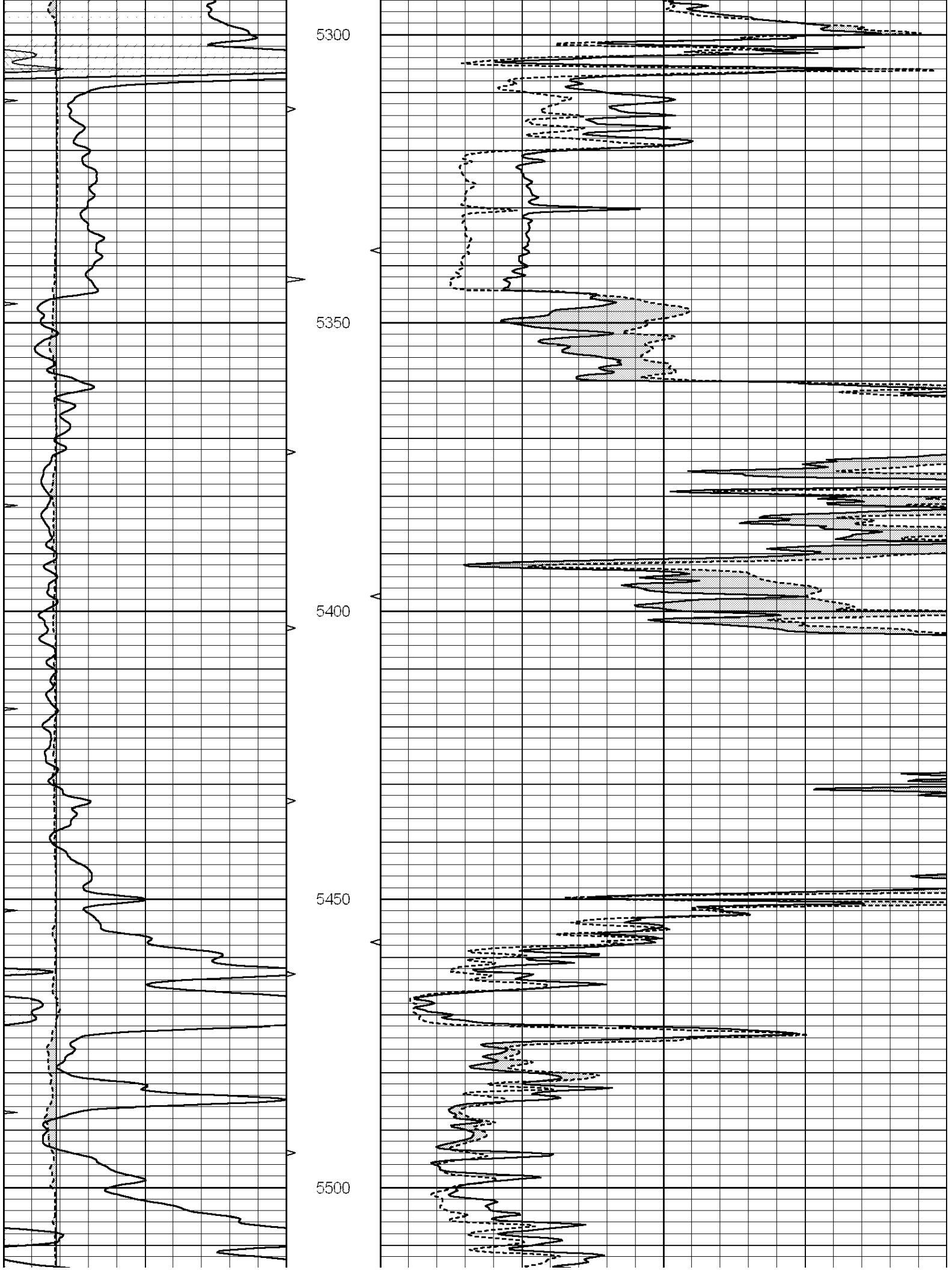

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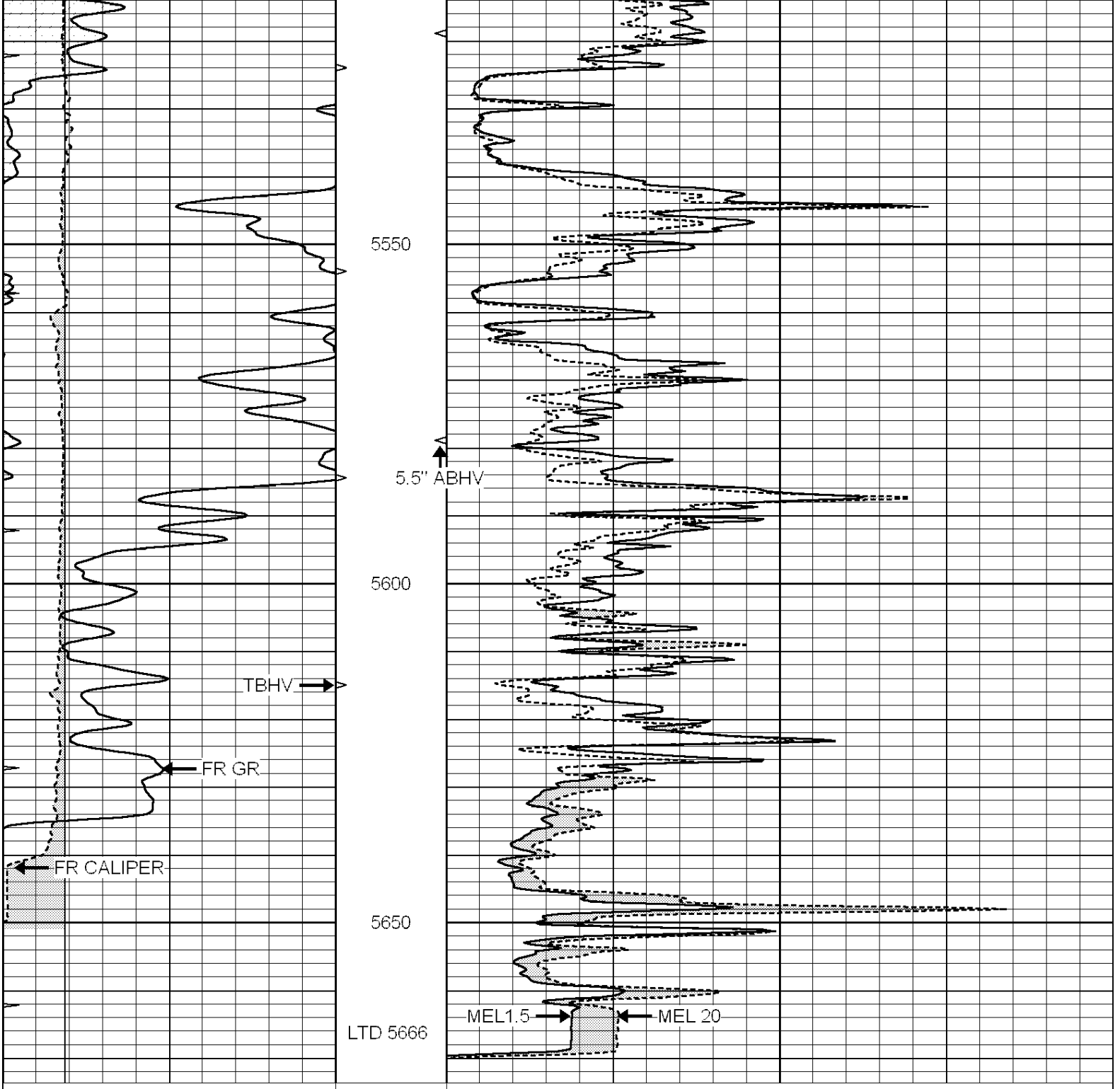

4450
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4600


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4750
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4850


4900
4950
5000
5050


5100
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5200
5250


5300
5350
5400
5450
5500



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REPEAT SECTION

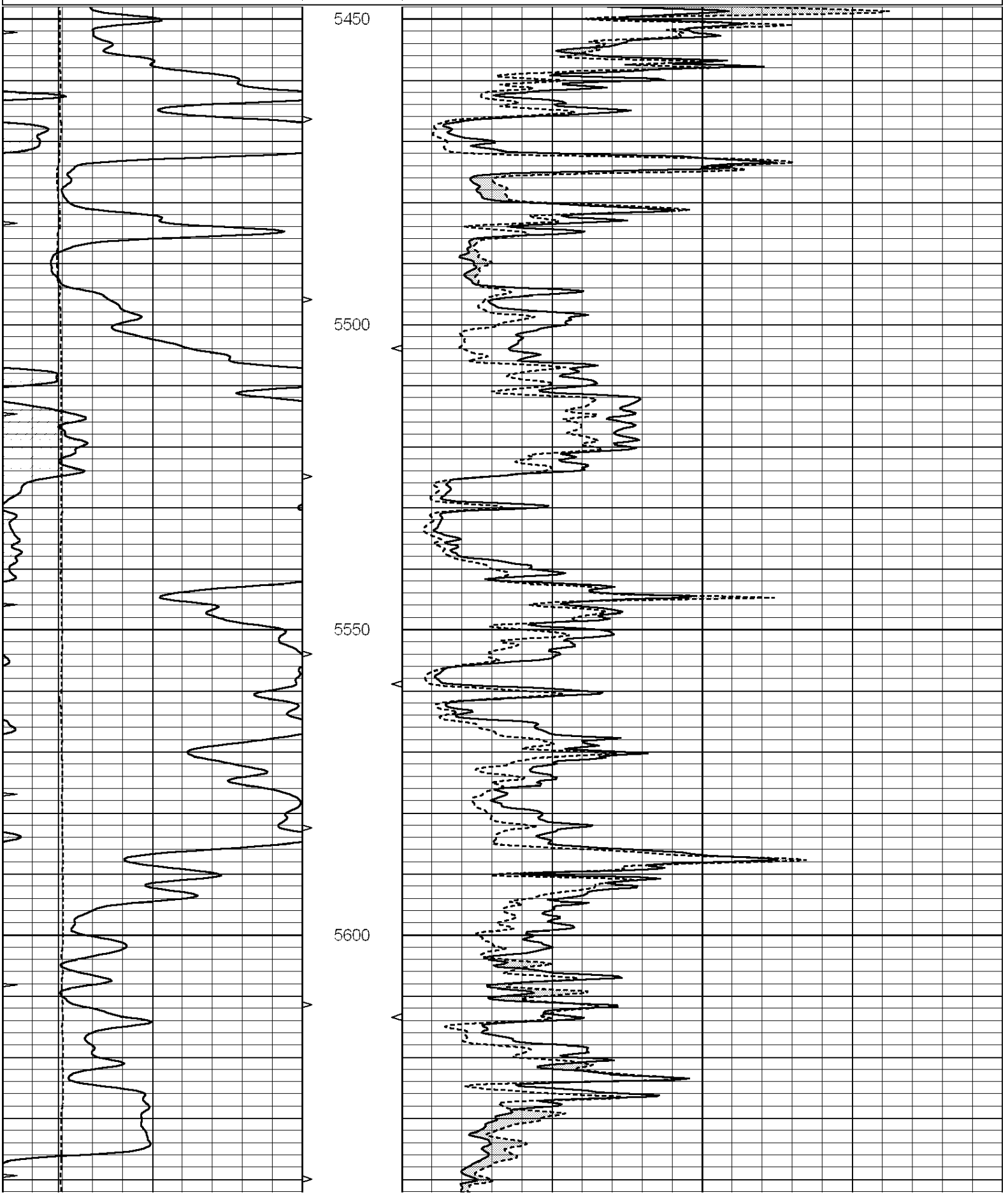
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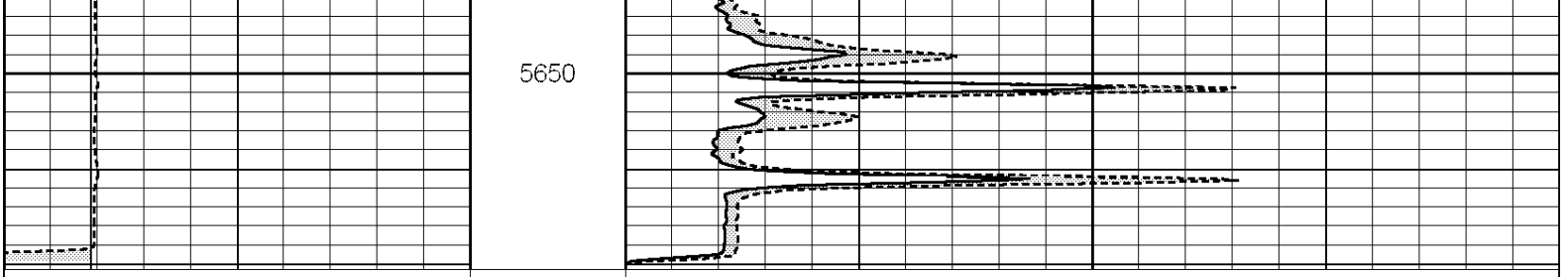
Charted by: Depth in Feet scaled 1:240

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

ABHV		
10	(ft3)	0
TBHV		
0	(ft3)	10

0	MEL1.5 (Ohm-m)	40
0	MEL 20 (Ohm-m)	40





0	GAMMA RAY (GAPI) 150		ABHV	0	MEL1.5 (Ohm-m) 40
6	CALIPER (in) 16	10	(ft3) 0	0	MEL 20 (Ohm-m) 40
0	MINMK 20		TBHV		
		0	(ft3) 10		

Calibration Report

Database File: 26327pe.db
Dataset Pathname: pass8.4
Dataset Creation: Thu Dec 11 11:52:38 2014

MICRO Calibration Report

Serial Number: MICRO5
Tool Model: PROBE
Performed: Thu Dec 11 10:42:44 2014

Caliper Calibration: Gain=1.608 Offset=2.976

	Low Cal	High Cal
References	7.800	16.000
Readings	3.000	8.100

1.5" Calibration: Gain=48.000 Offset=-1.000

	Low Cal	High Cal
References	0.000	20.000
Readings	0.012	1.000

2" Calibration: Gain=44.000 Offset=-0.500

	Low Cal	High Cal
References	0.000	20.000
Readings	0.005	0.903

Gamma Ray Calibration Report

Serial Number: GR3
Tool Model: OPEN
Performed: Thu Dec 11 10:22:59 2014

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps
Calibrator Reading: 186.0 cps

Sensitivity: 1.0000 GAPI/cps