



SUPERIOR
Hays,
Kansas

MICRO
LOG

Company HERMAN L. LOEB, LLC.
Well PANNING # 19
Field PRITCHARD NORTH
County BARTON
State KANSAS

Company HERMAN L. LOEB, LLC
Well PANNING # 19
Field PRITCHARD NORTH
County BARTON State KANSAS

Location: API # : 15-009-25655-0000
2306' FSL & 990' FEL
S/2 - NE - NW - SW
SEC 19 TWP 20S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1885
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
PE/DIL
Elevation
K.B. 1894
D.F. 1892
G.L. 1885

Date	2/18/12		
Run Number	TWO		
Depth Driller	3600		
Depth Logger	3600		
Bottom Logged Interval	3598		
Top Log Interval	1700		
Casing Driller	8 5/8" @ 792'		
Casing Logger	792'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5500 PPM	
Density / Viscosity	9.2/56		
pH / Fluid Loss	11.5/7.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.00 @ 50F		
Rmt @ Meas. Temp	0.75 @ 50F		
Rmc @ Meas. Temp	1.20 @ 50F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.45 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	112F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONIEWEG		
Witnessed By	JON CHRISTENSEN		

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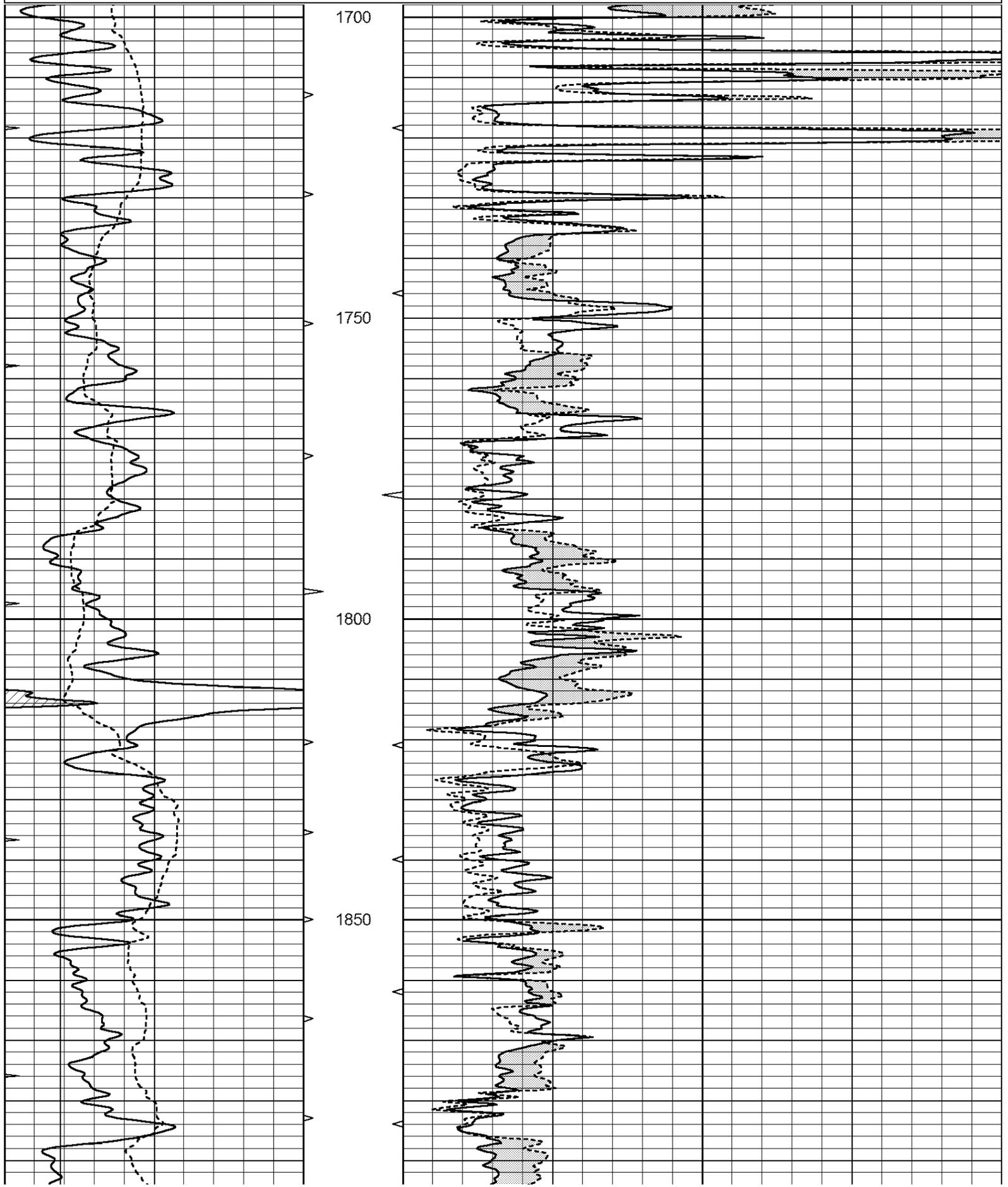
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

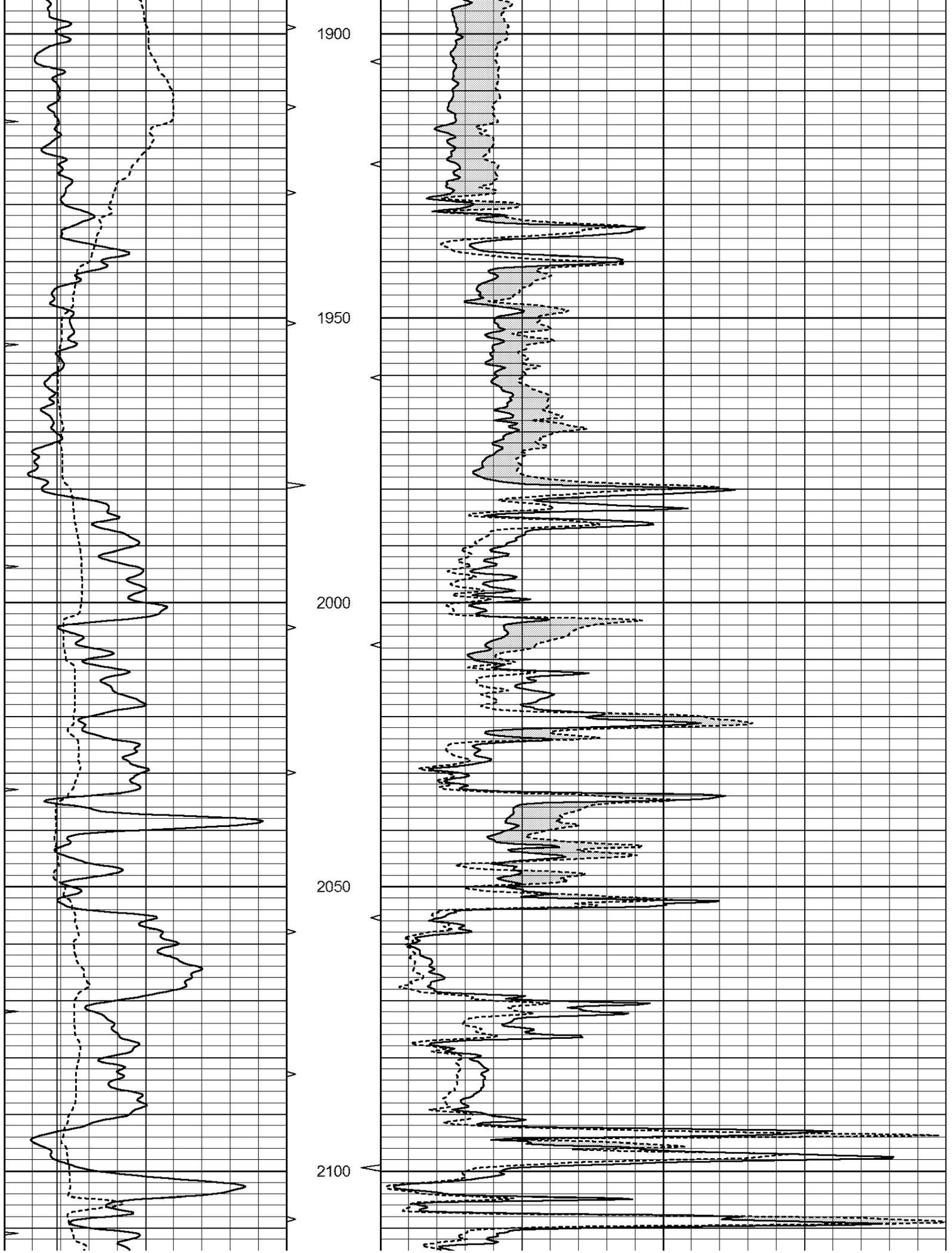
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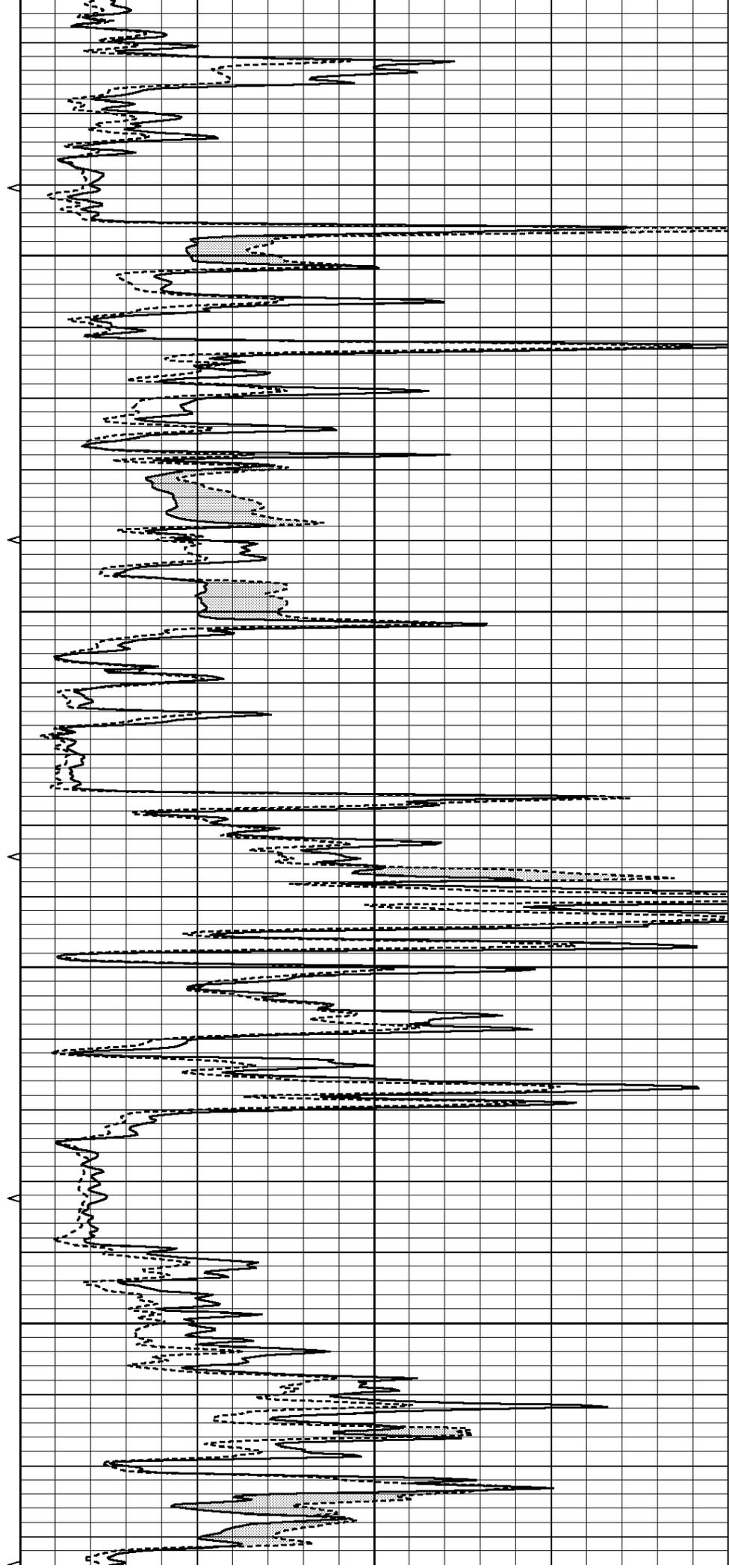
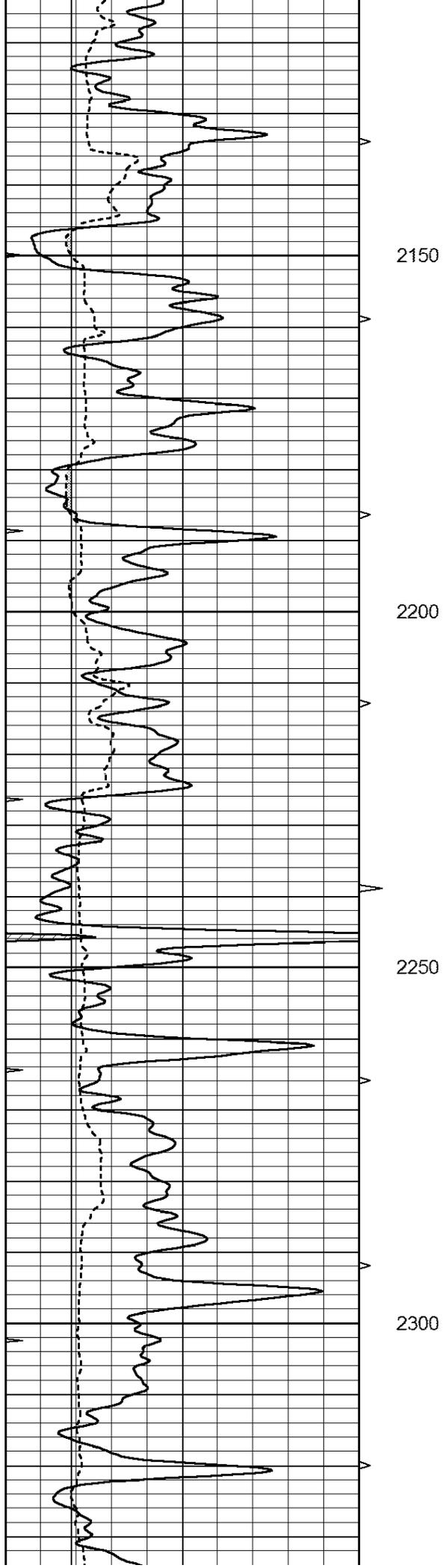
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
GREAT BEND, KS - 5 MILES SOUTH ON HWY 281 TO RD 50
3 MILES WEST TO RD 20 - 1/2 MILE NORTH - EAST INTO

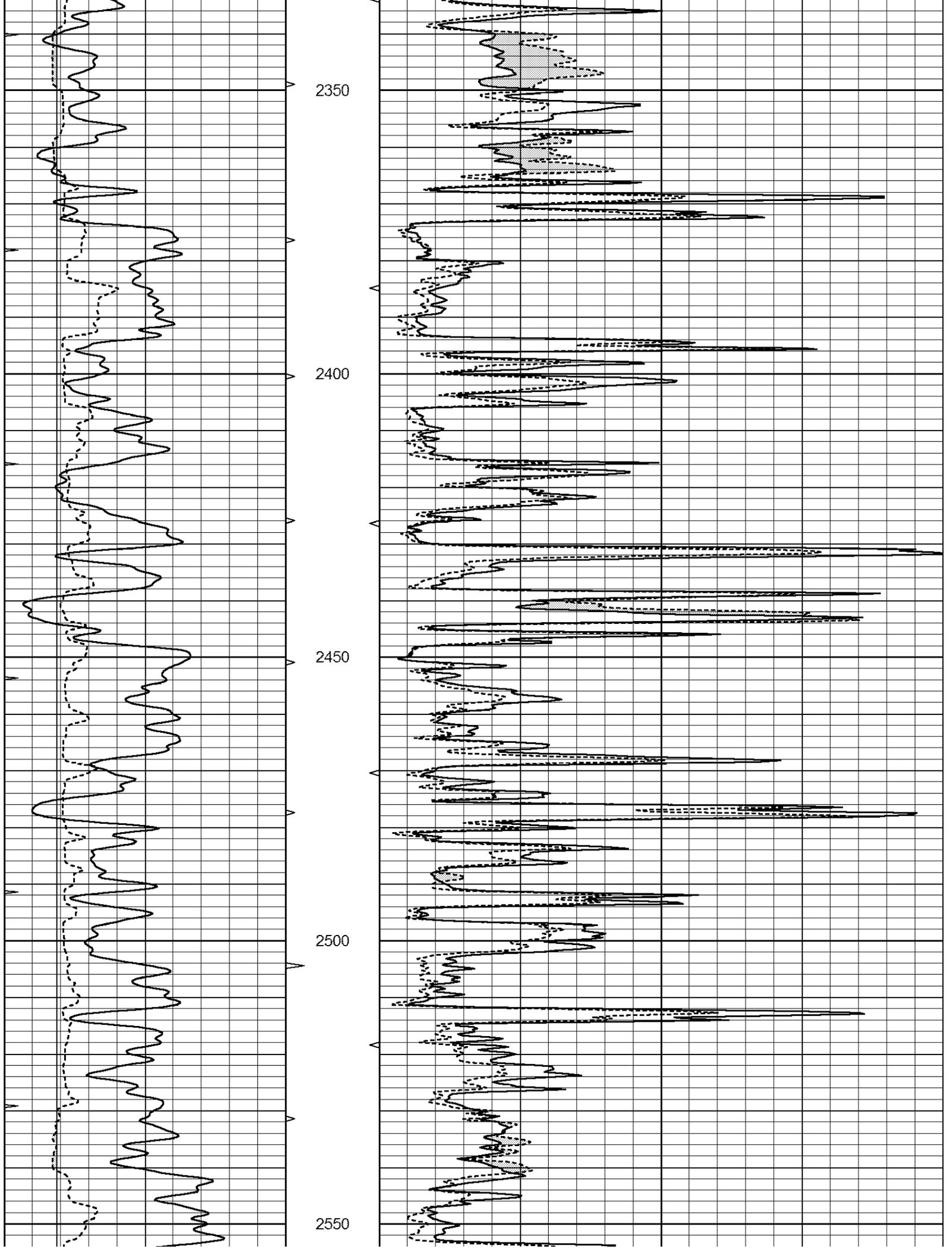
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Charted by: Depth in Feet scaled 1:240

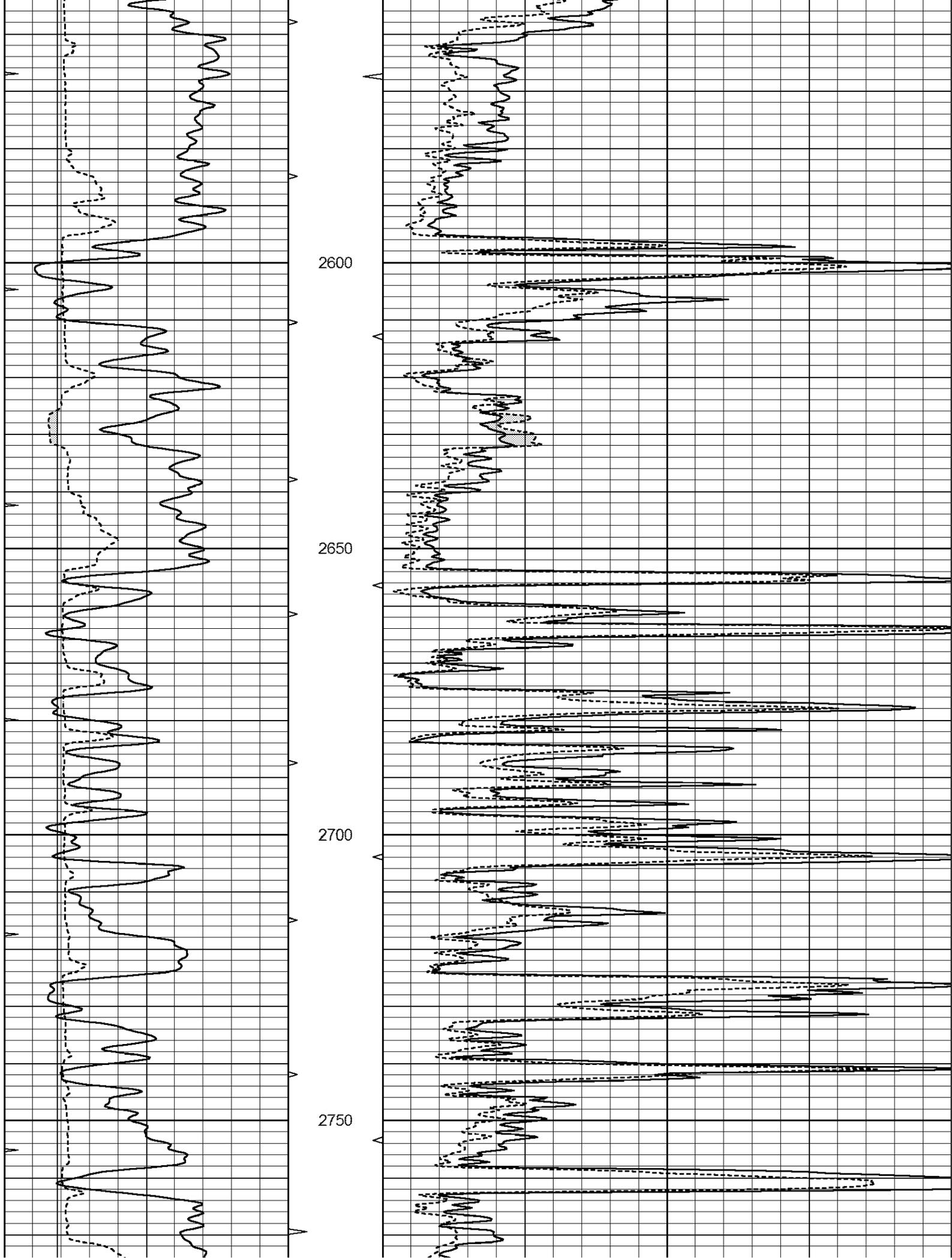
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		

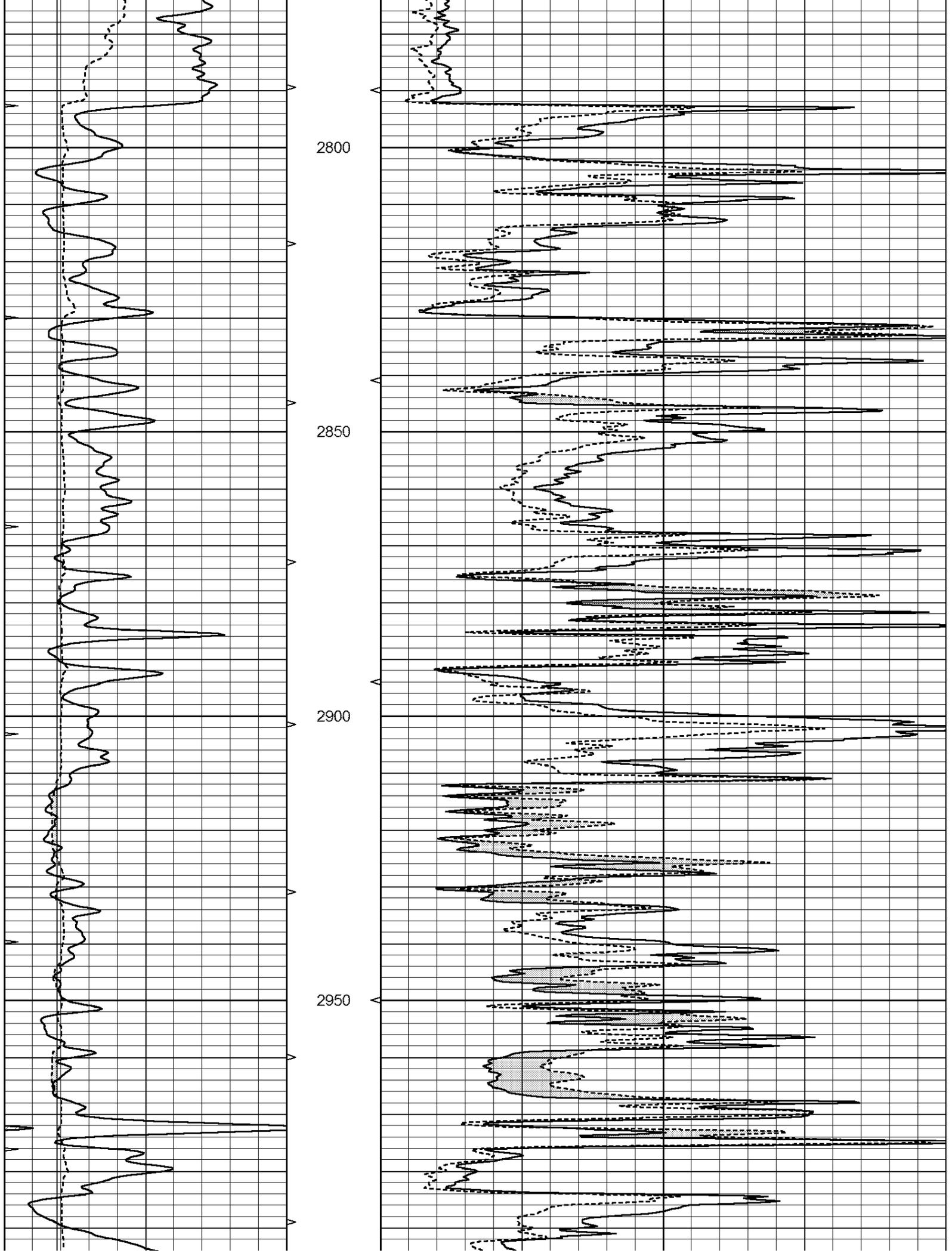


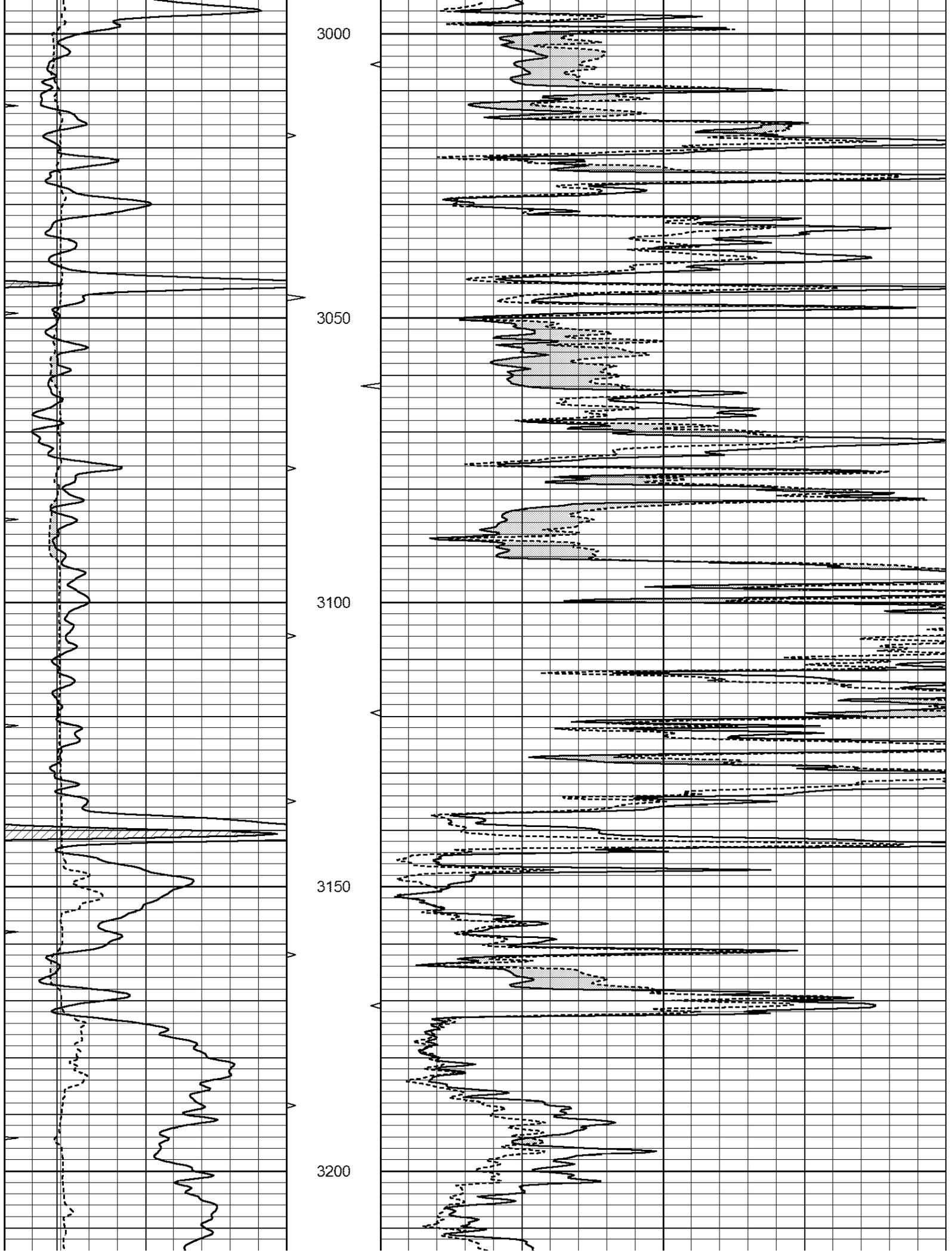


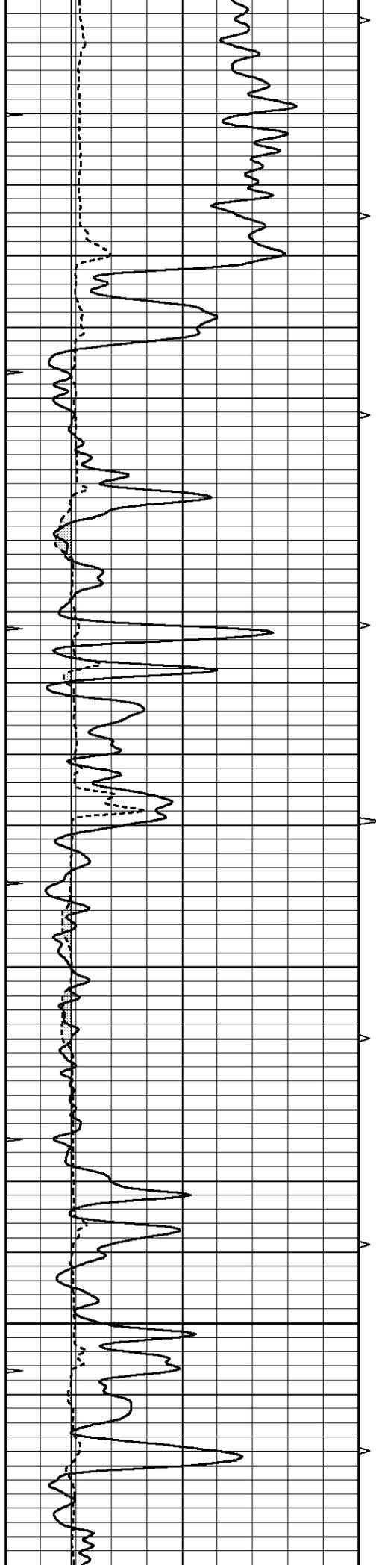










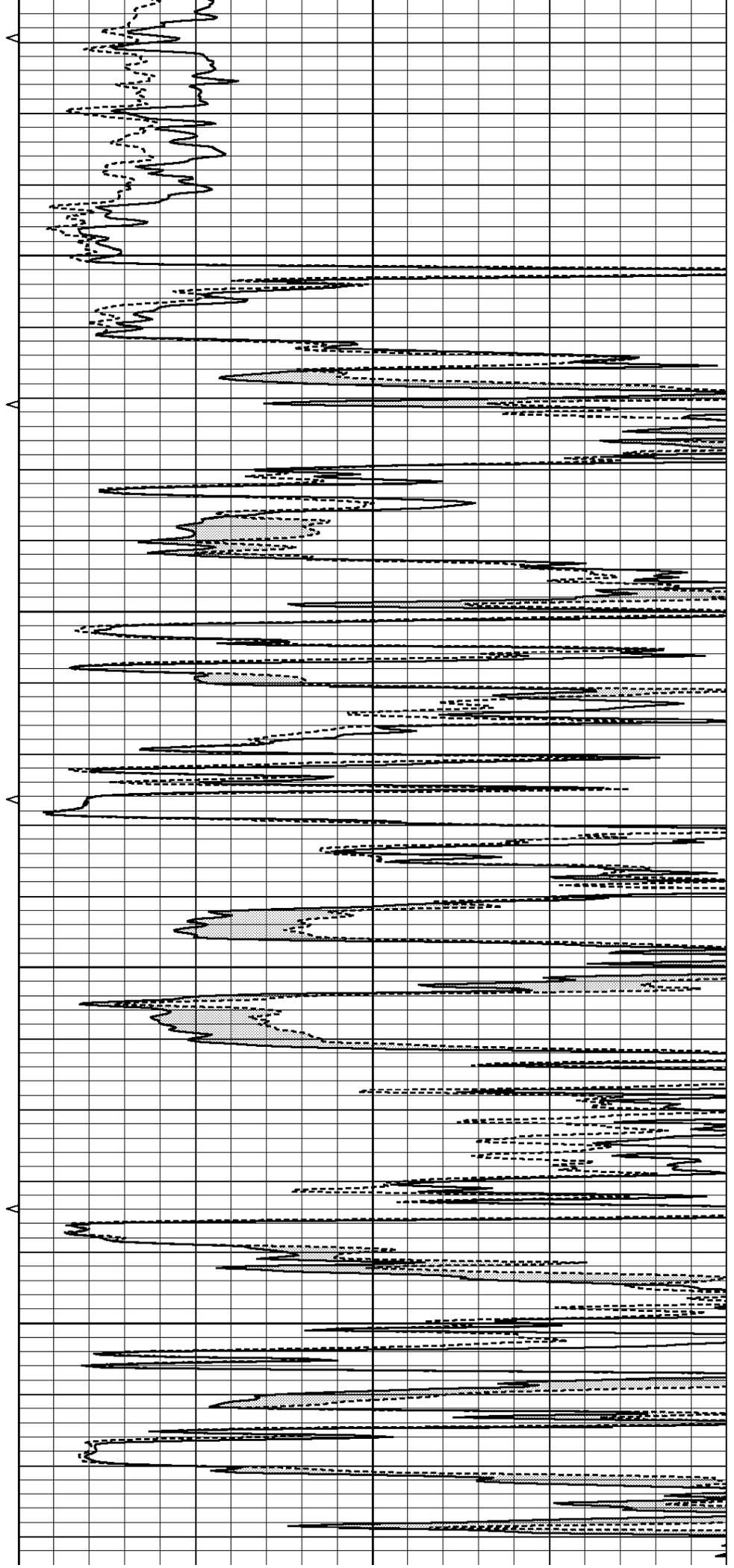


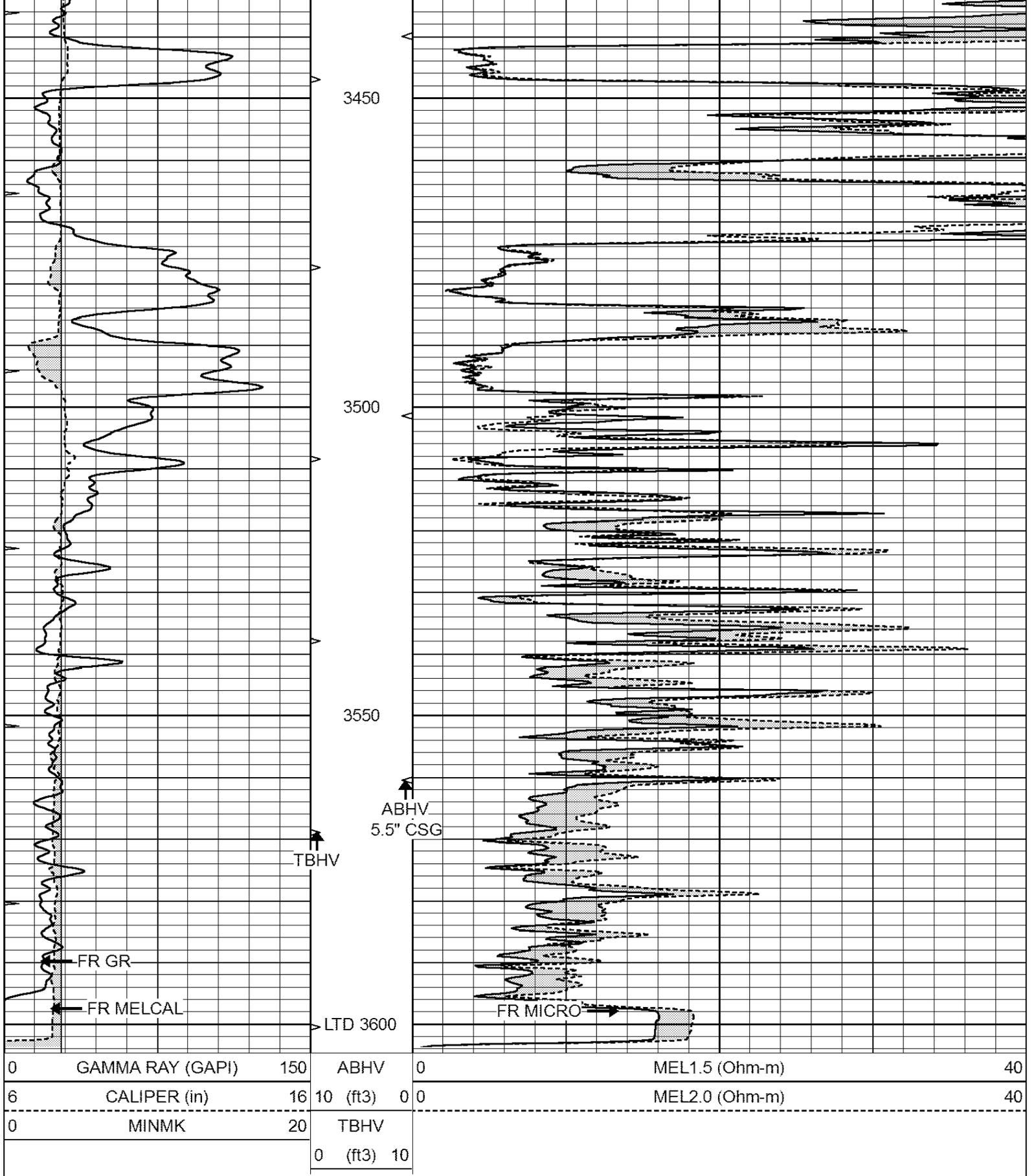
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3300

3350

3400



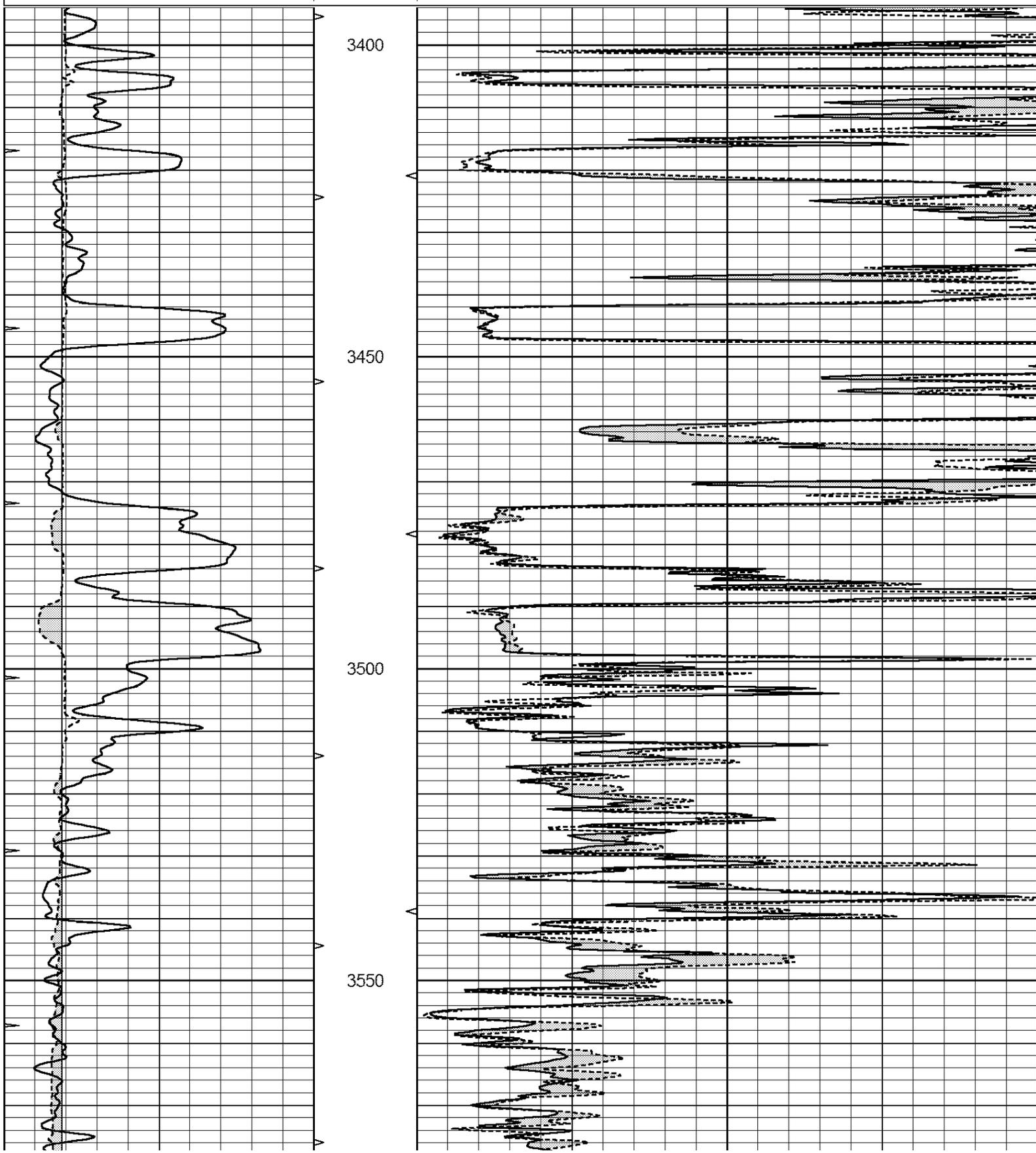


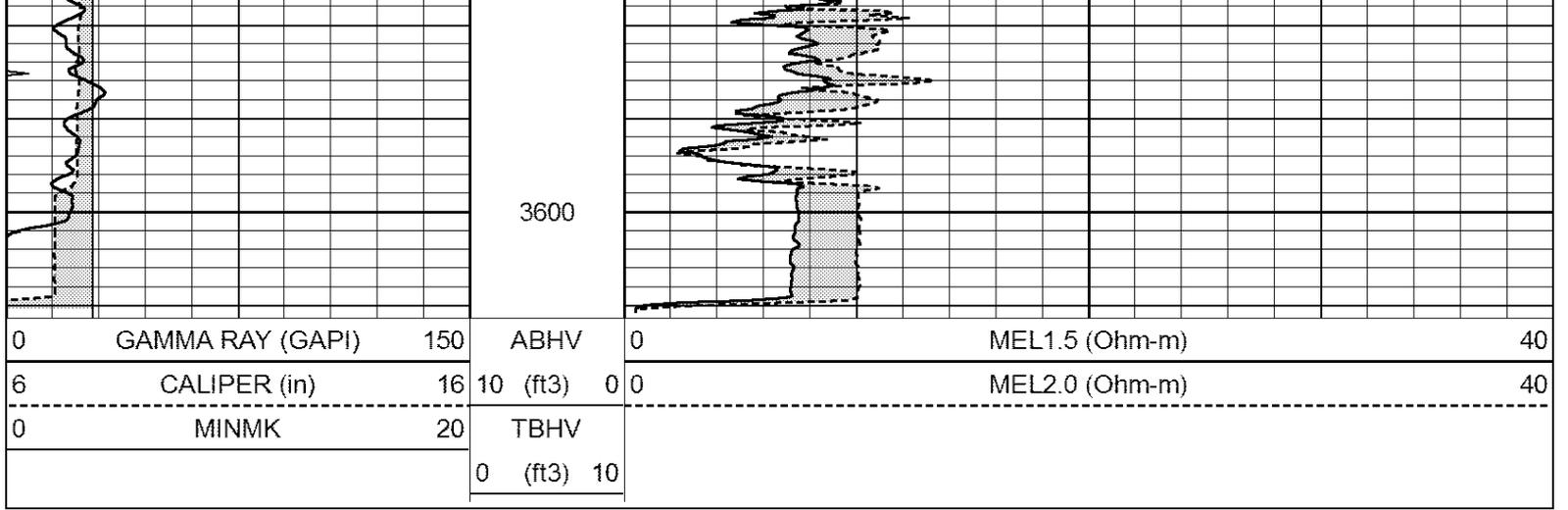
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REPEAT SECTION

Database File: 00002pc.dbr
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 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	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report

Database File: 008602pe.db
 Dataset Pathname: pass5
 Dataset Creation: Sat Feb 18 12:44:16 2012 by Log Open-Cased 110302

MICRO Calibration Report

Serial Number:	2	
Tool Model:	PROBE	
Performed:	Mon Feb 13 13:38:47 2012	
Caliper Calibration:	Gain=4.398	Offset=2.628
References	Low Cal	High Cal
Readings	7.500	15.000
	1.130	2.835
1.5" Calibration:	Gain=38.000	Offset=0.500
References	Low Cal	High Cal
Readings	0.000	20.000
	0.065	1.210
2" Calibration:	Gain=62.000	Offset=0.500
References	Low Cal	High Cal
Readings	0.000	20.000
	0.012	1.043

Gamma Ray Calibration Report

Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Tue Feb 14 17:16:23 2012	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.1000	GAPI/cps