



SUPERIOR
Hays,
Kansas

MICRO LOG

Company PIONEER EXPLORATION, LLC.
Well DIRKS #8
Field SPIVEY-GRABS-BASIL
County HARPER
State KANSAS

Company PIONEER EXPLORATION, INC.
Well DIRKS #8
Field SPIVEY-GRABS-BASIL
County HARPER State KANSAS

Location: API # : 15-077-21676-0000
990' FSL & 990' FWL
NE - SW - SW
SEC 28 TWP 31S RGE 9W
Permanent Datum GROUND LEVEL Elevation 1633
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL
Elevation
K.B. 1643
D.F. 1641
G.L. 1633

Date	3/29/10		
Run Number	TWO		
Depth Driller	4600		
Depth Logger	4608		
Bottom Logged Interval	4606		
Top Log Interval	2400		
Casing Driller	8 5/8"@266'		
Casing Logger	262		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.3/60		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.900@84F		
Rmf @ Meas. Temp	.675@84F		
Rmc @ Meas. Temp	1.08@84F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.625@121F		
Time Circulation Stopped	5 HOURS		
Time Logger on Bottom	2:15 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	SEAN 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

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
SHARON, KS. E. ON HWY 160 TO "RD. 150" (2E. OF BARBER/HARPER COUNTY LINE) 4 1/2N., E. INTO

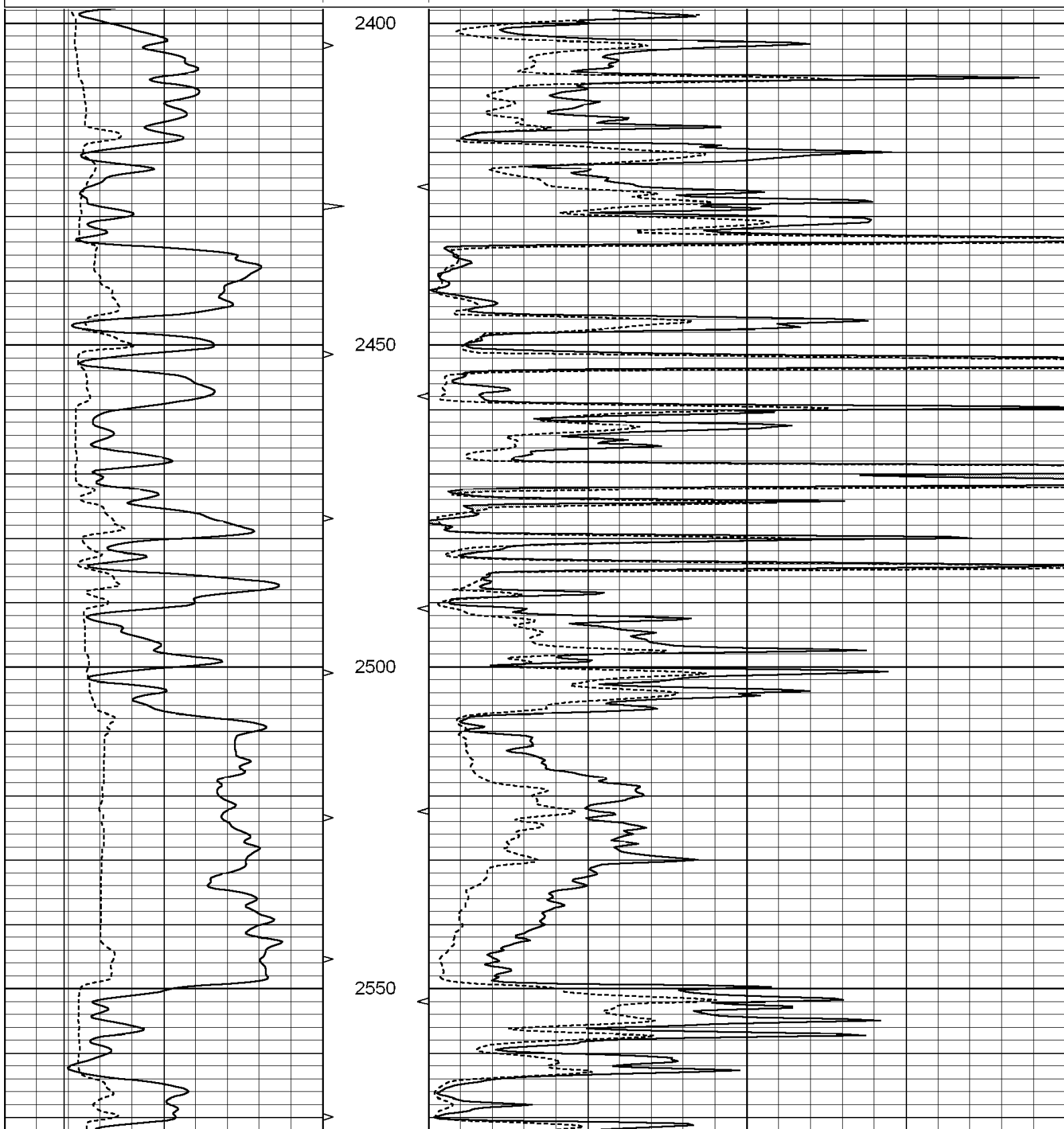


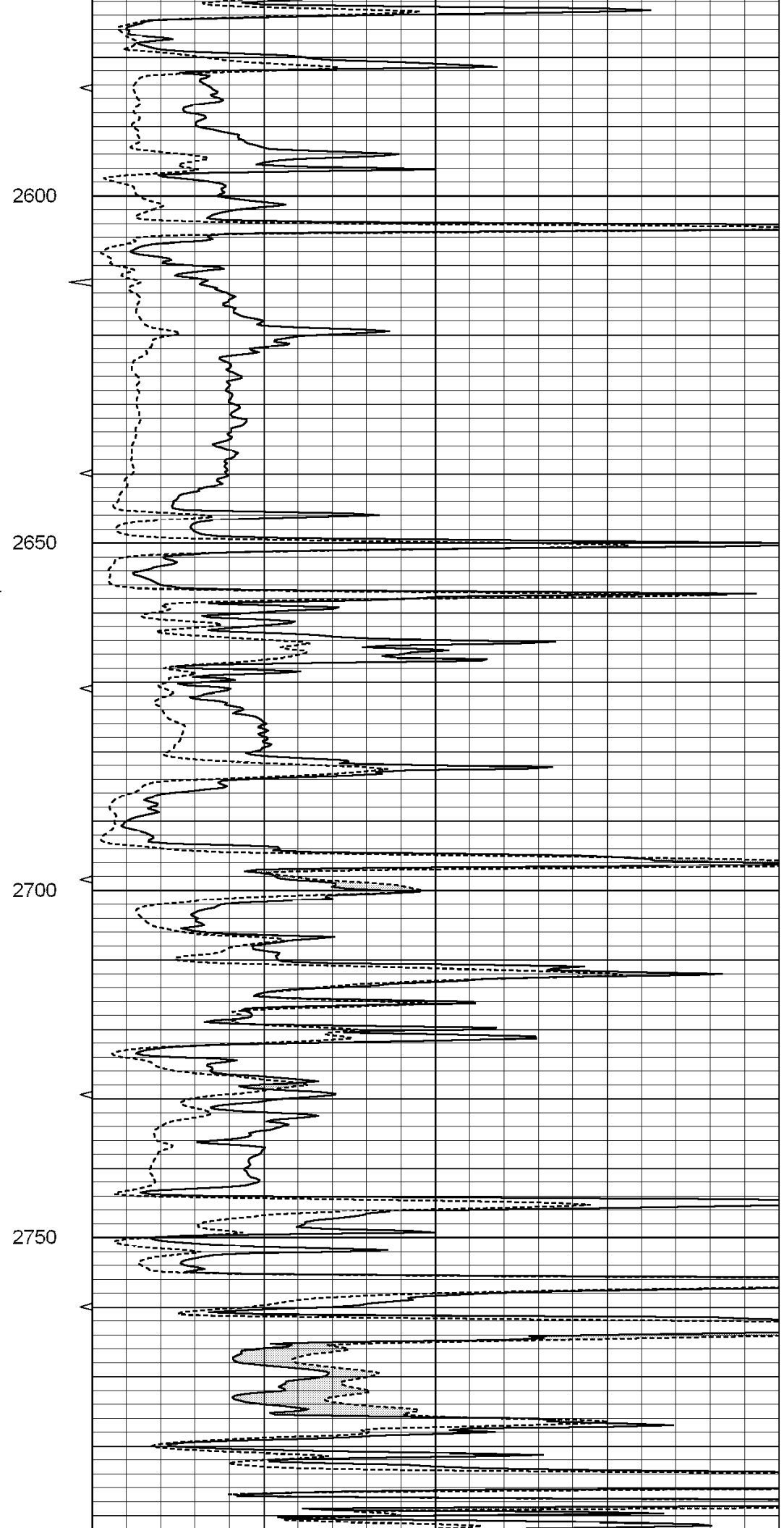
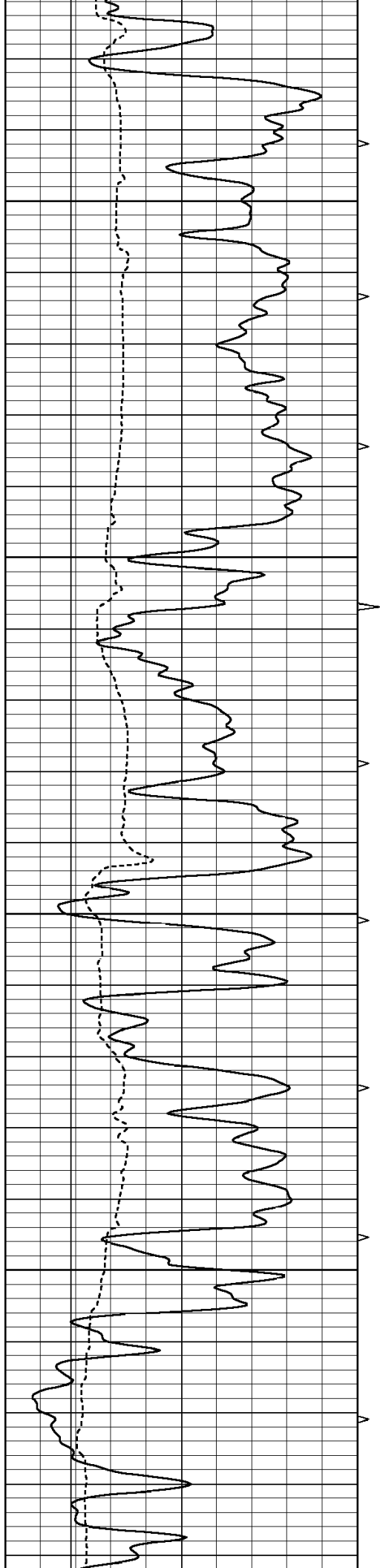
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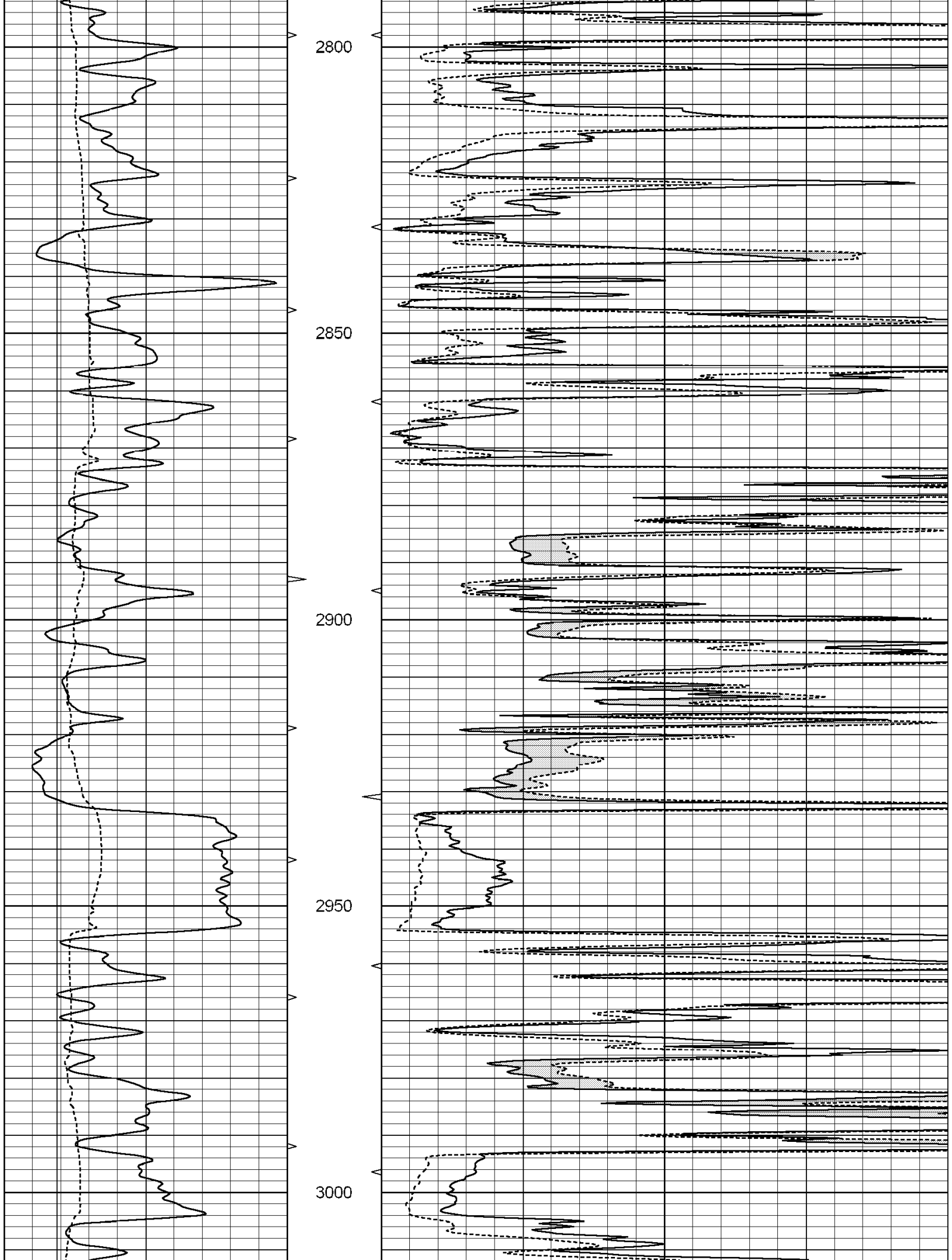
MAIN SECTION

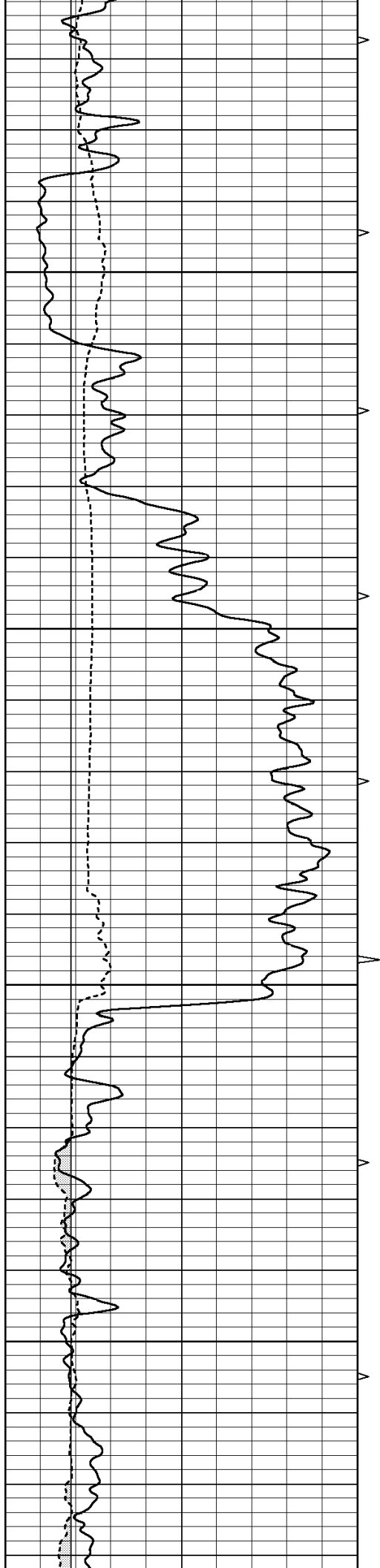
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Dataset Pathname: pass6.4
Presentation Format: micro
Dataset Creation: Mon Mar 29 18:18:08 2010
Charted by: Depth in Feet scaled 1:240

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			







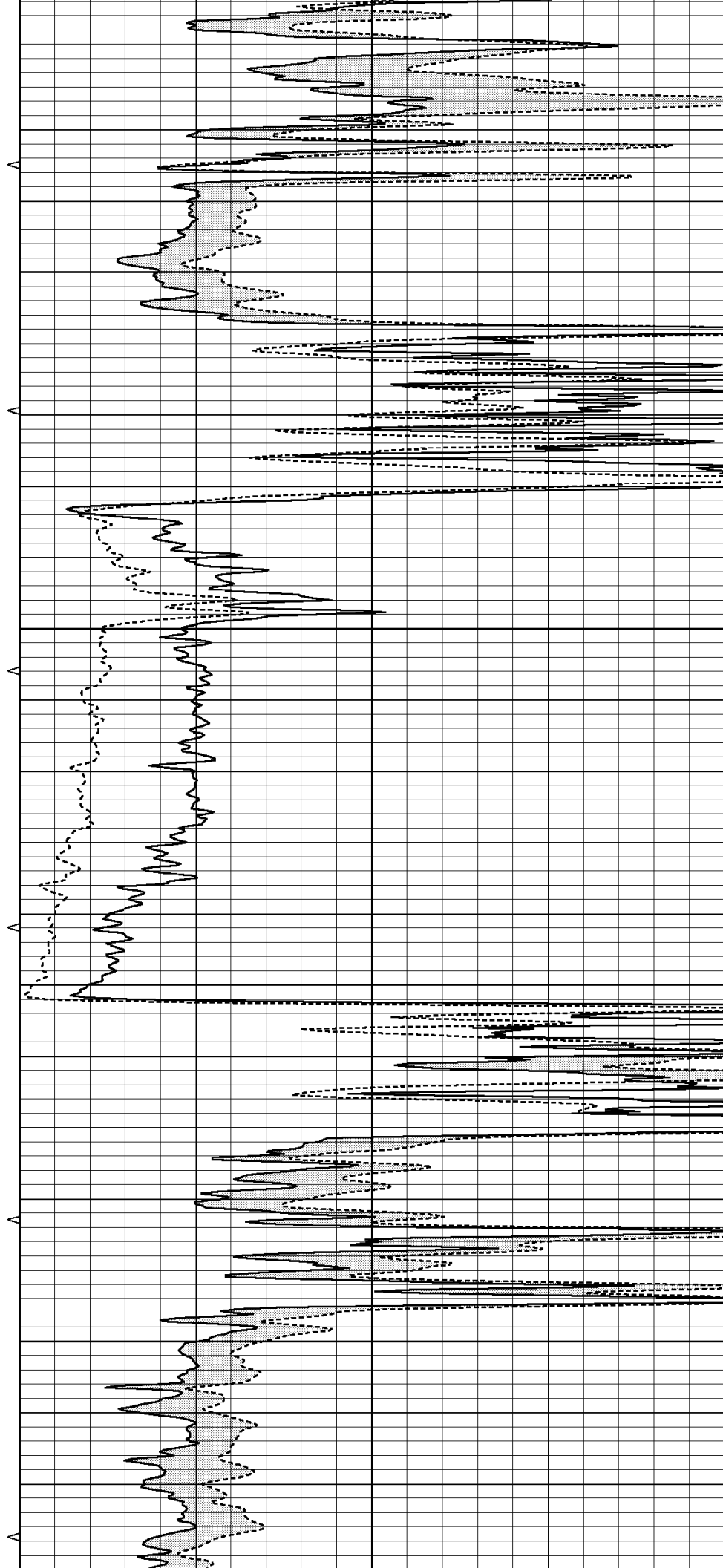


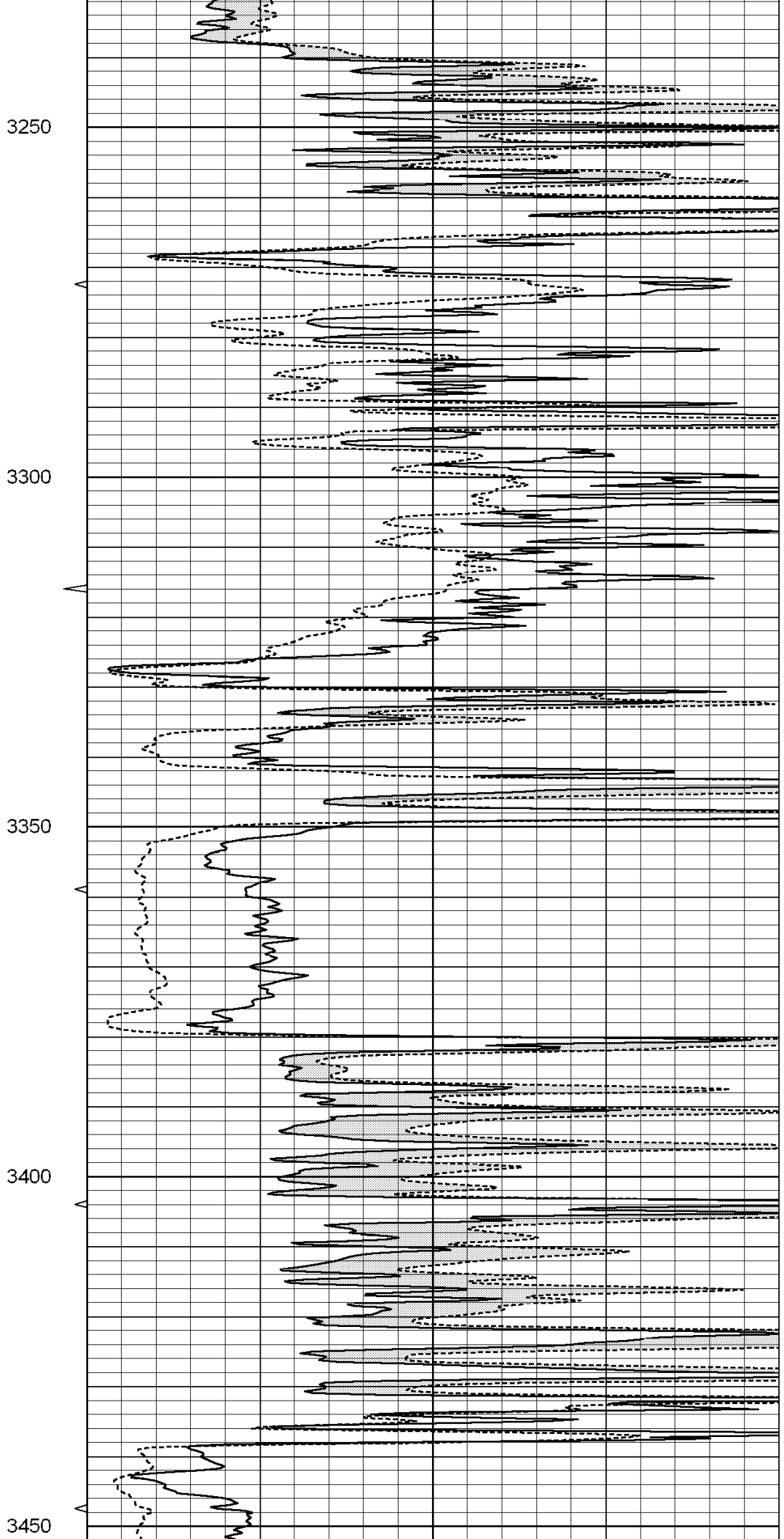
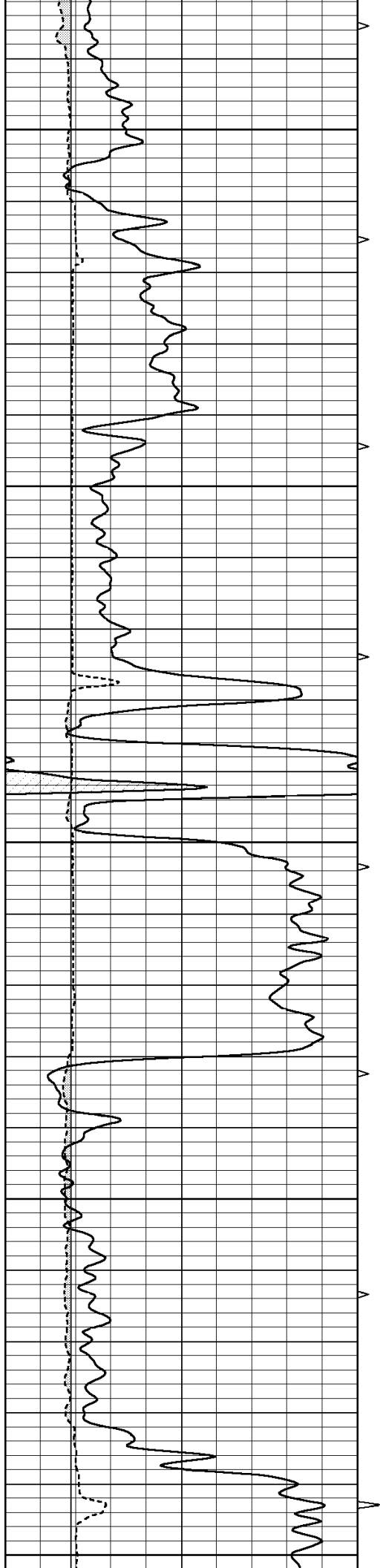
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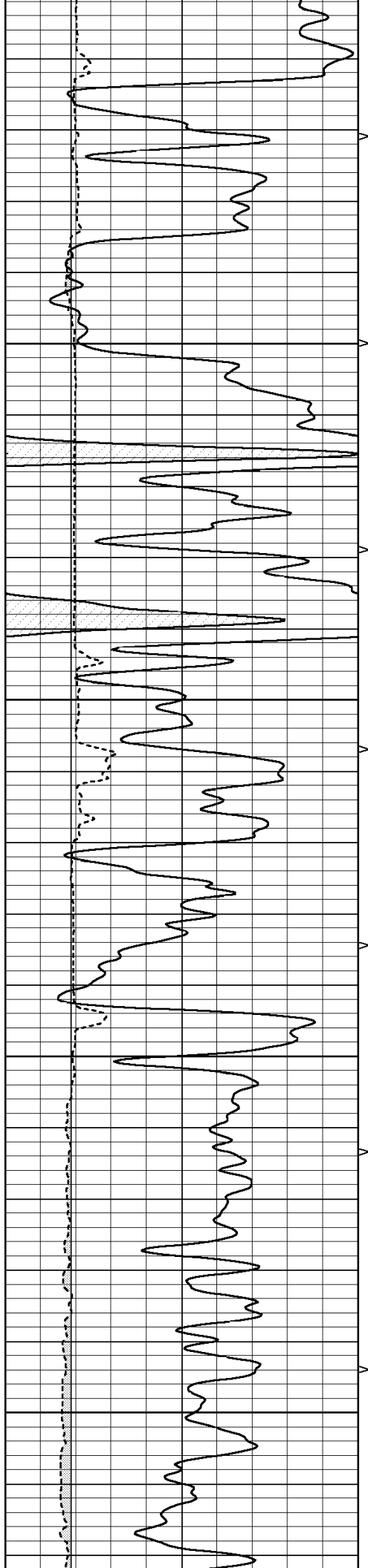
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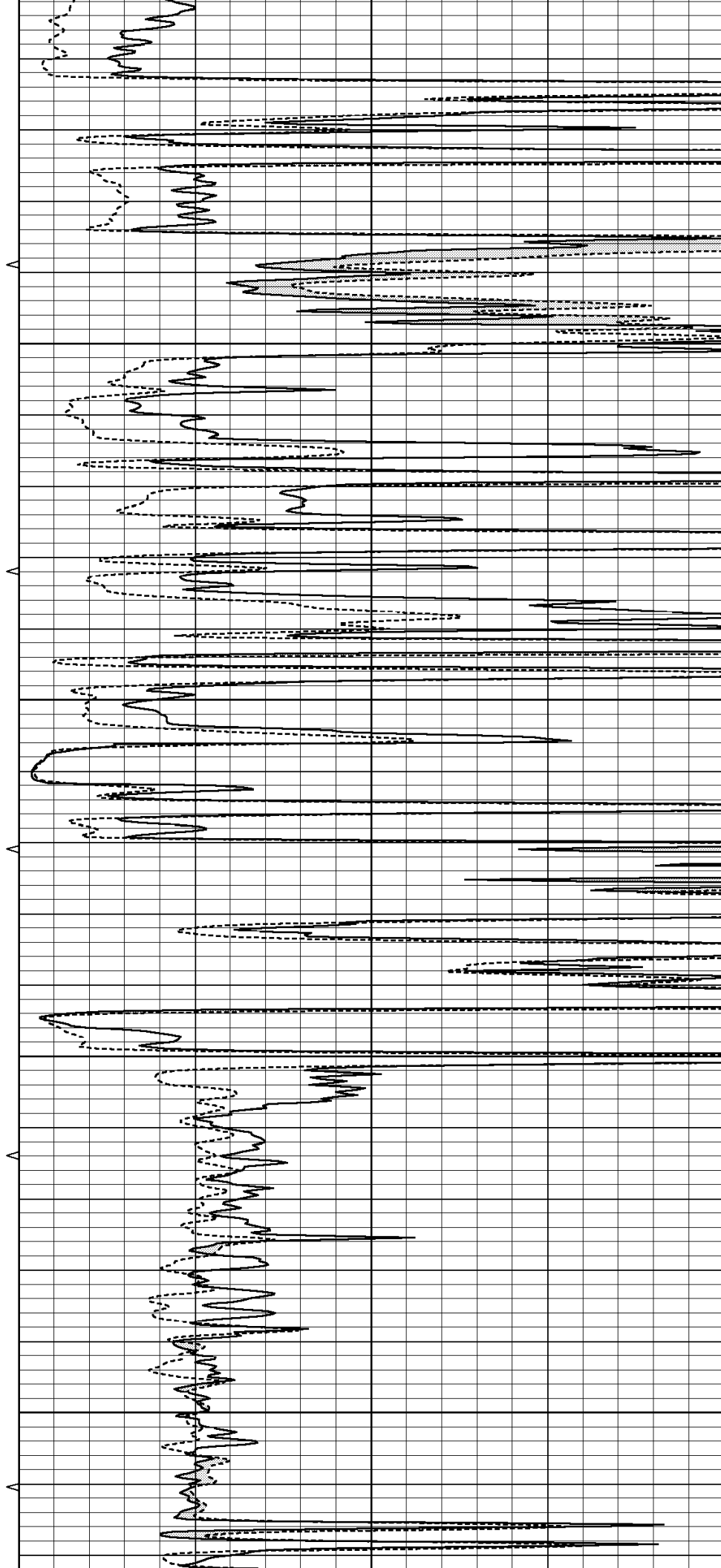


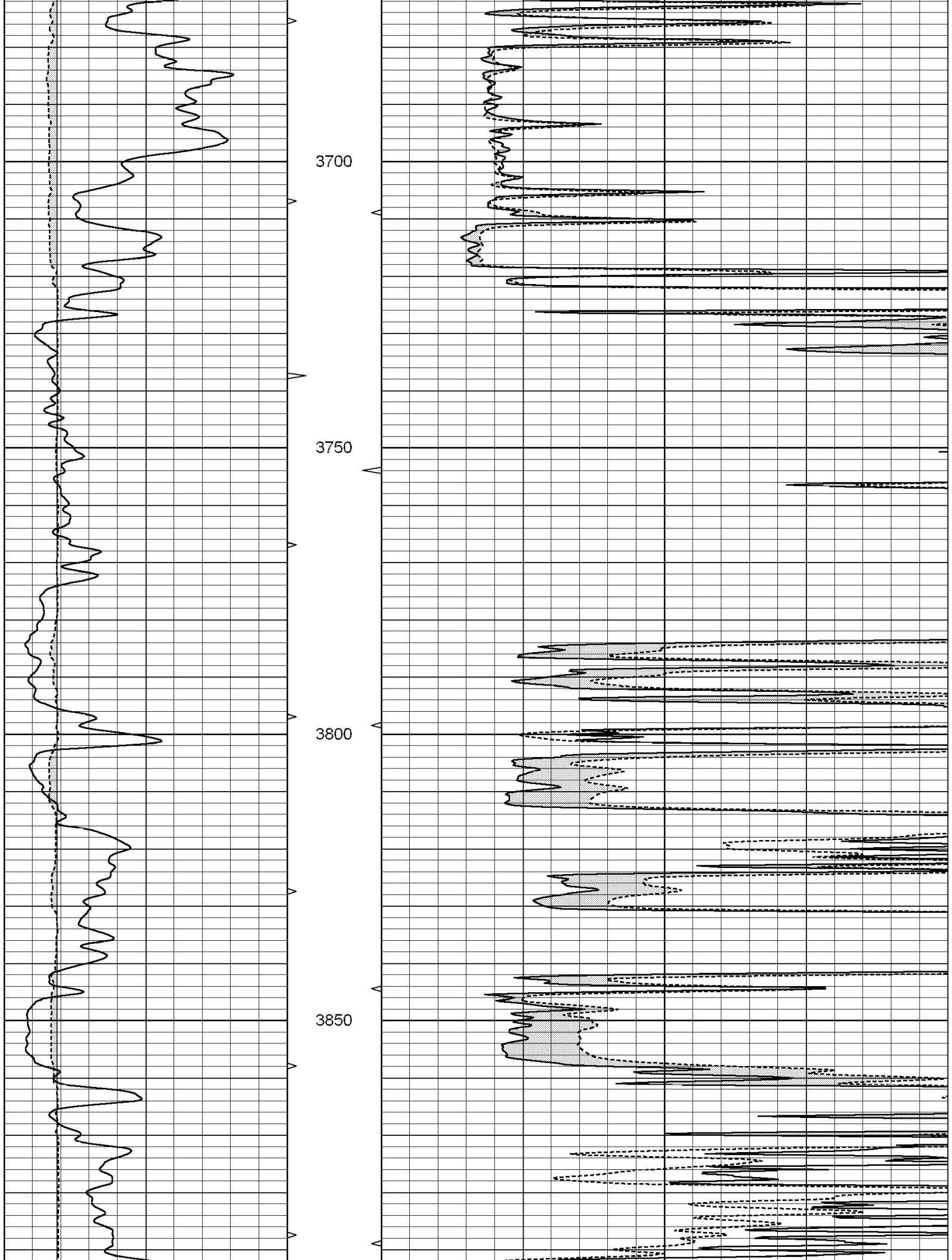
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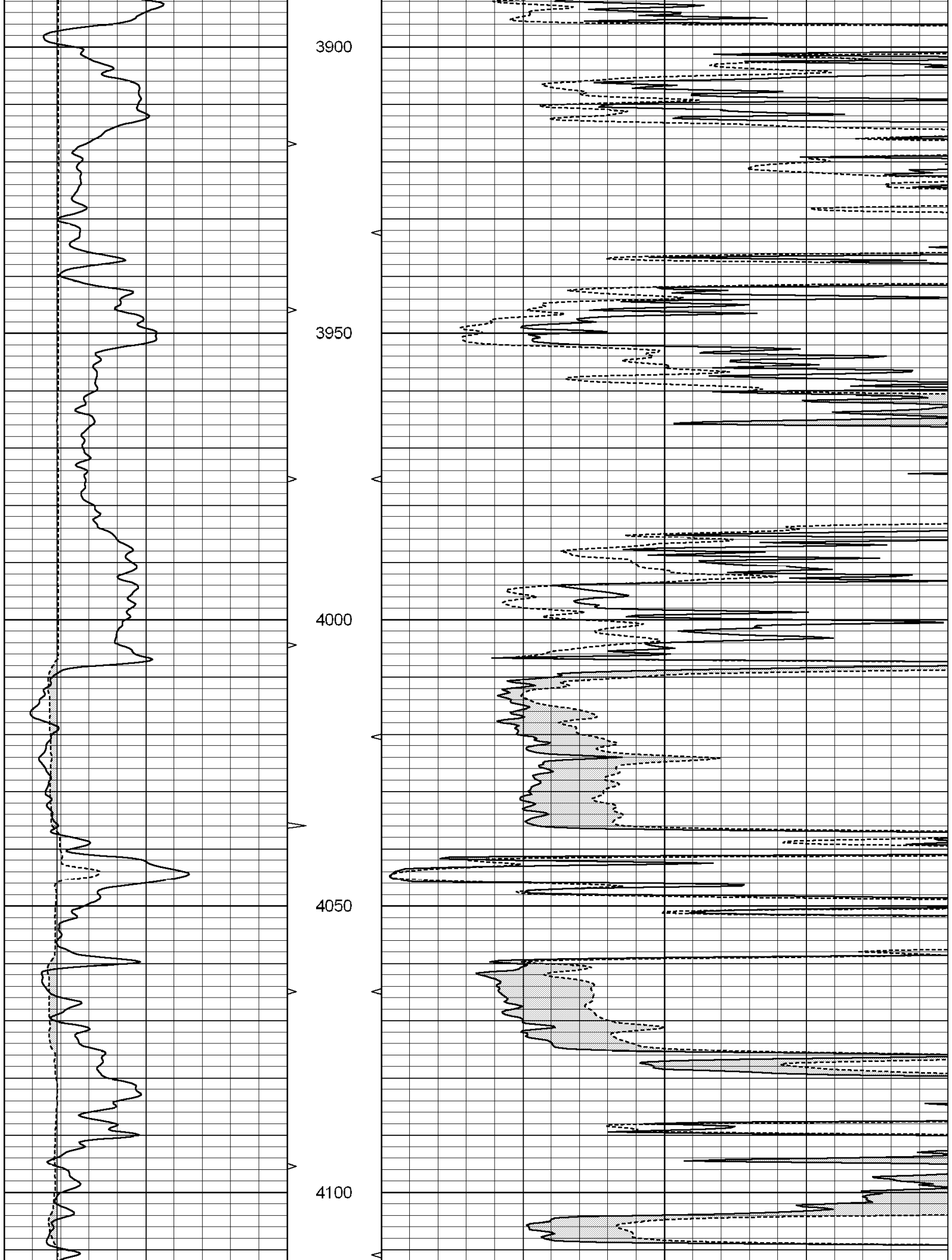
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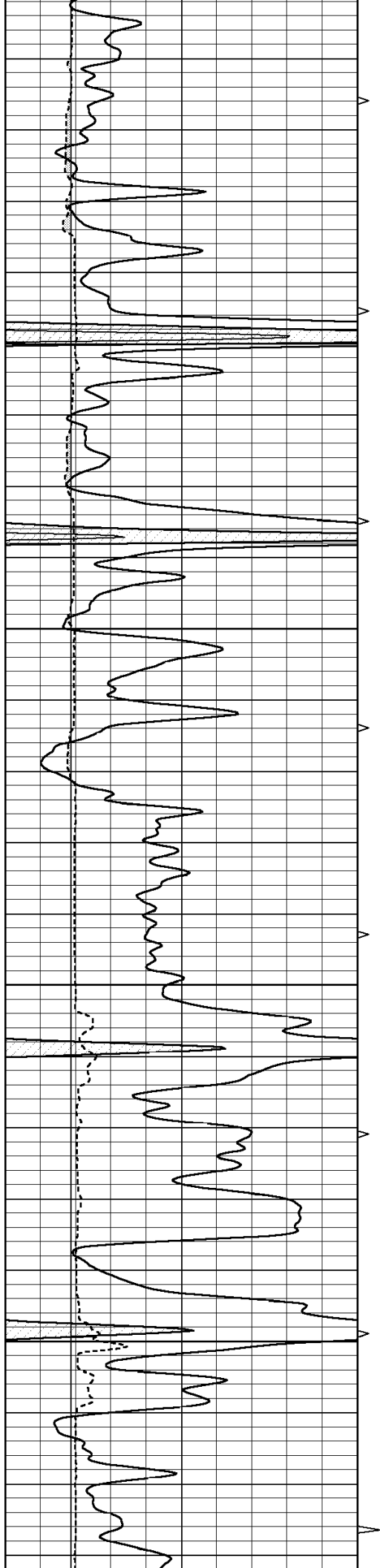
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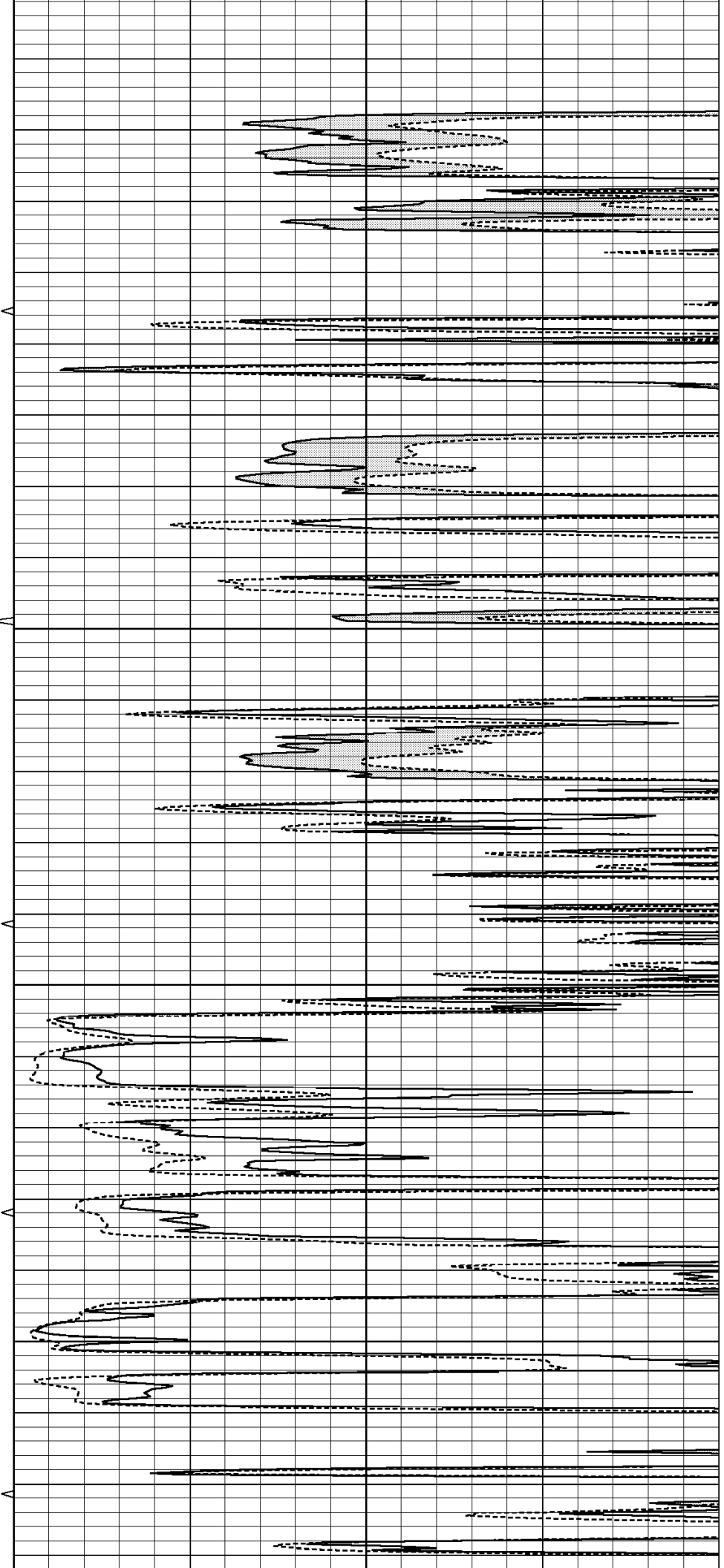


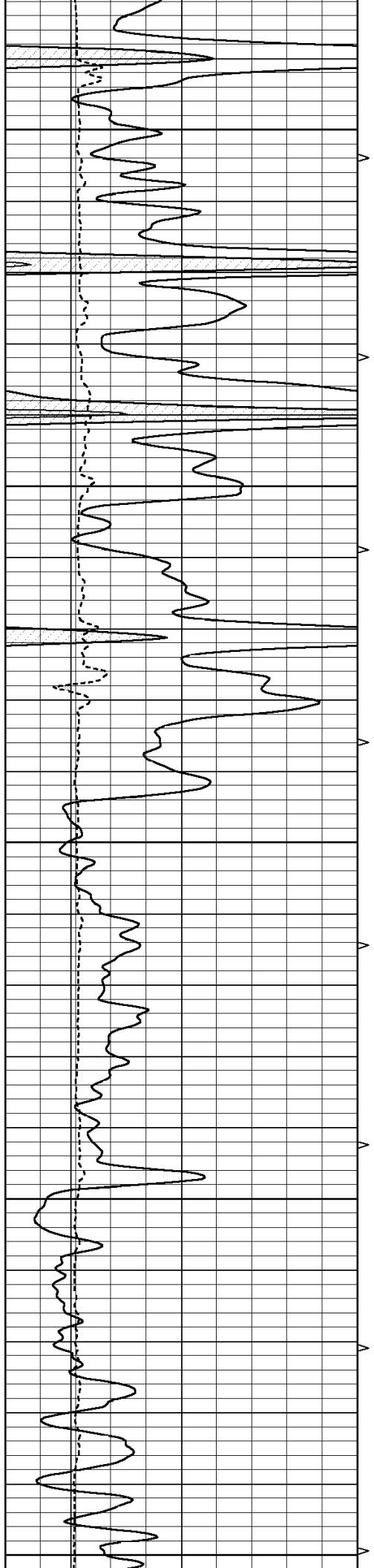
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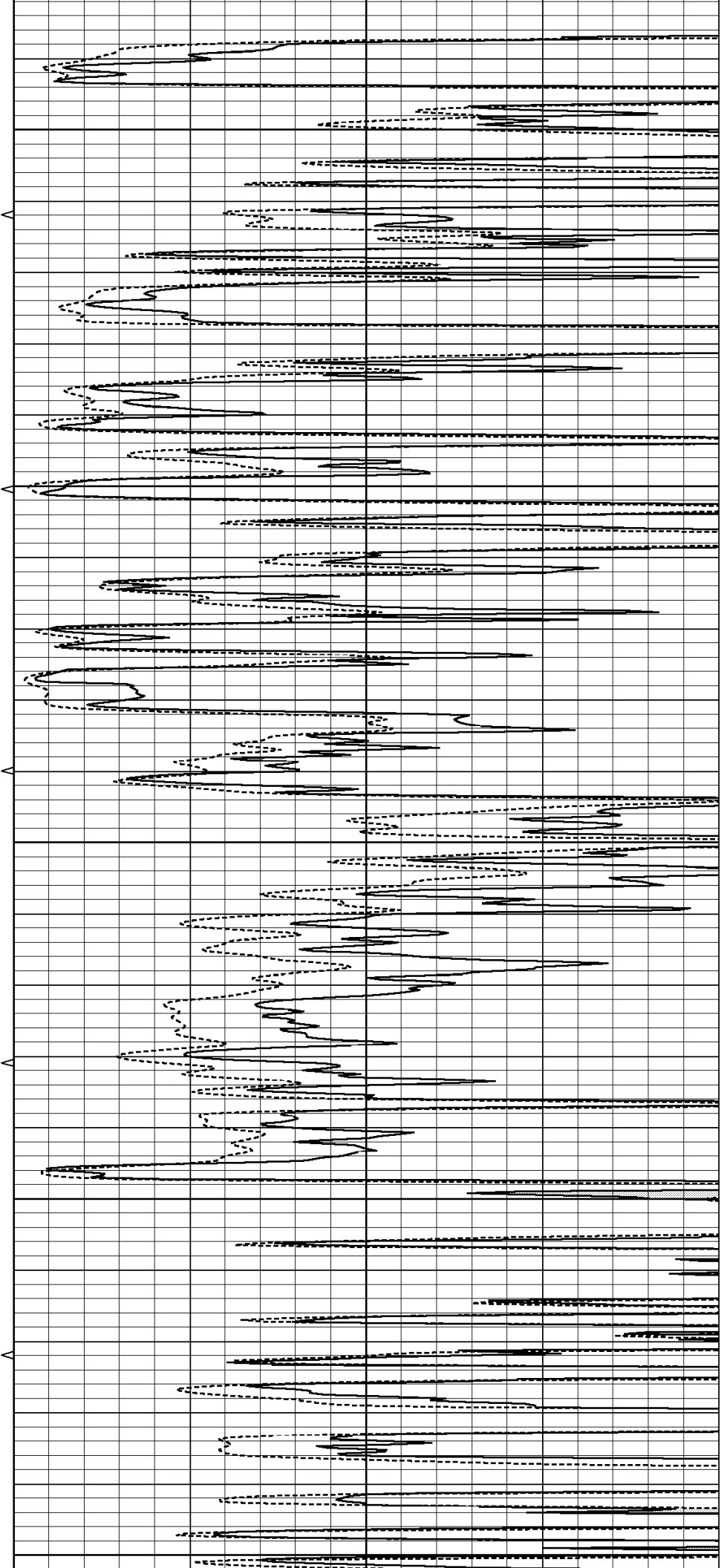
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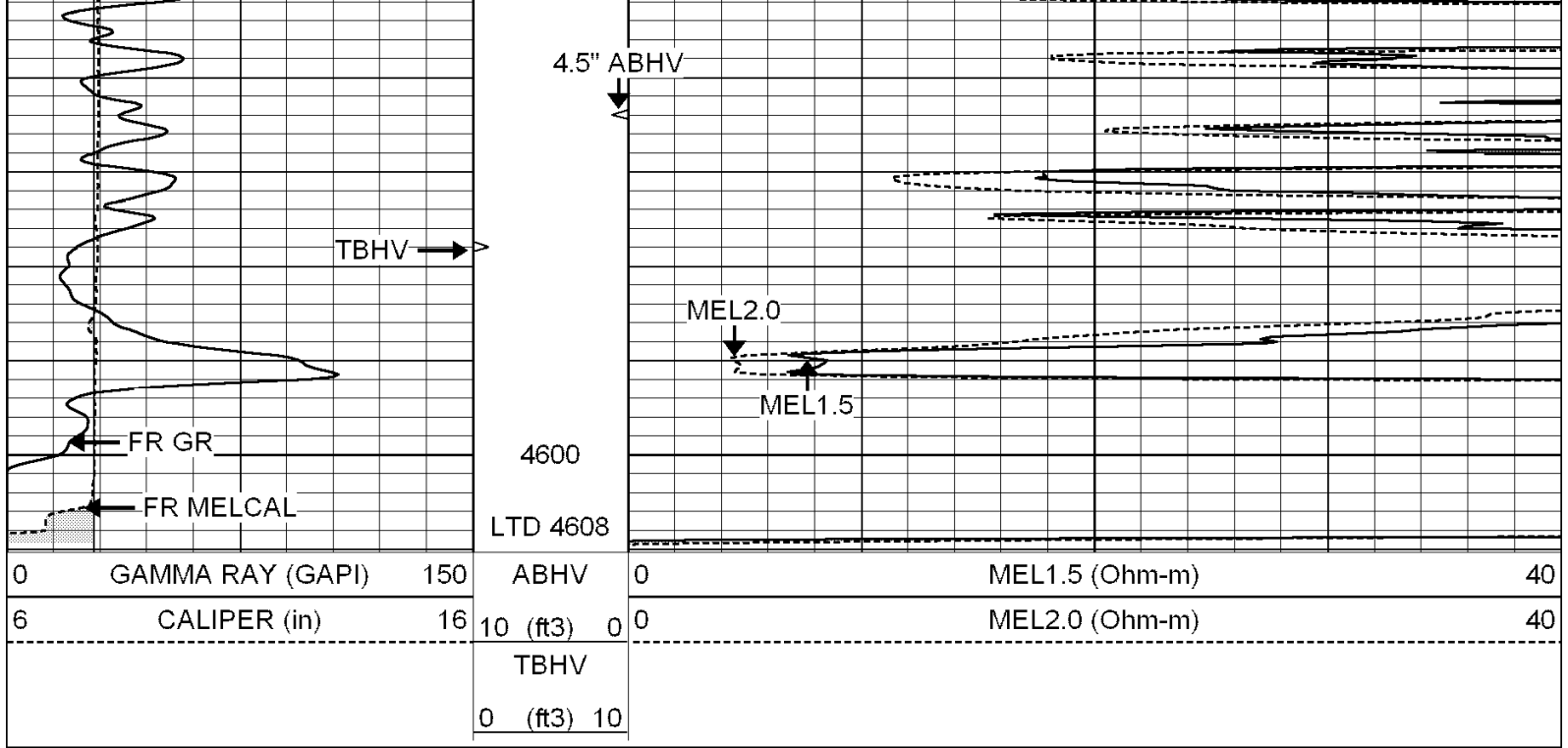
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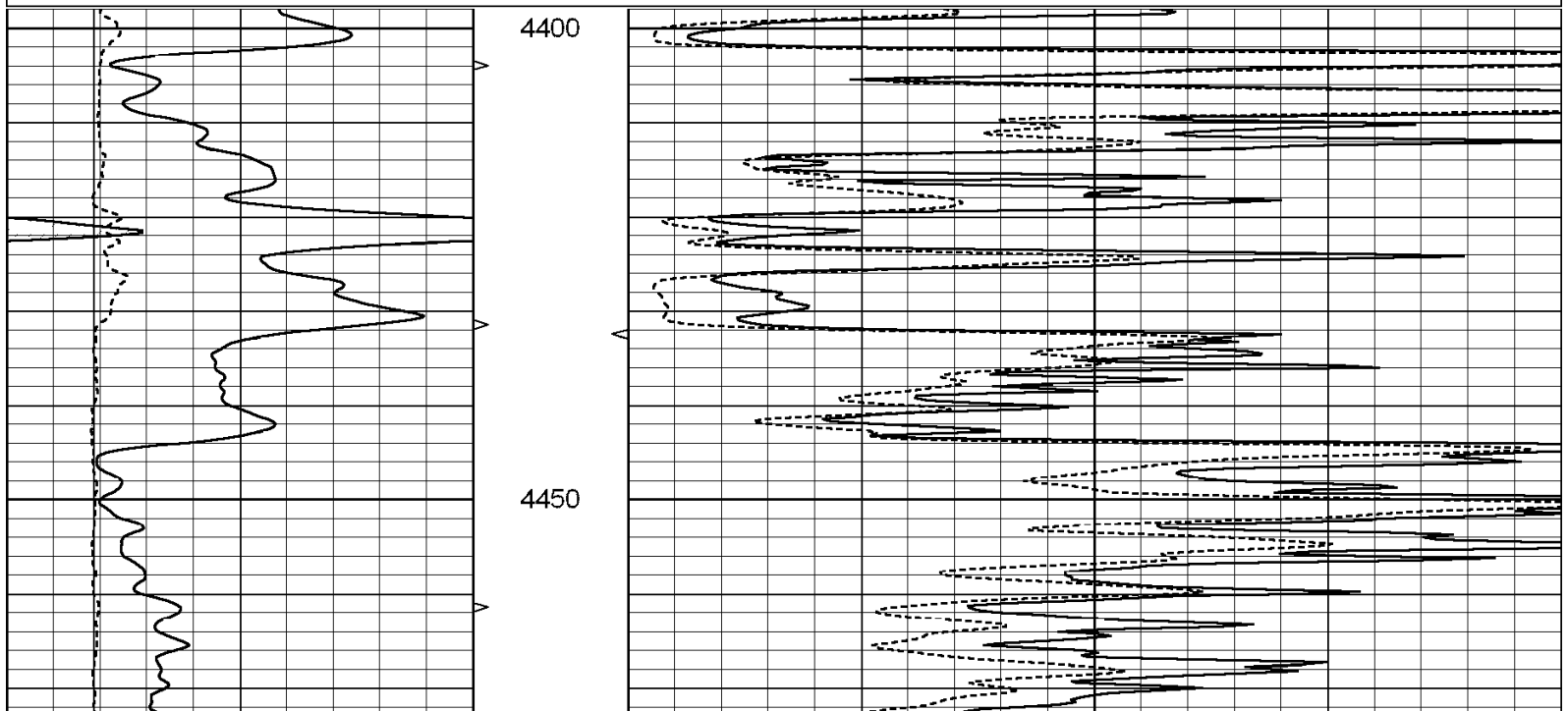
SUPERIOR
WELL SERVICES

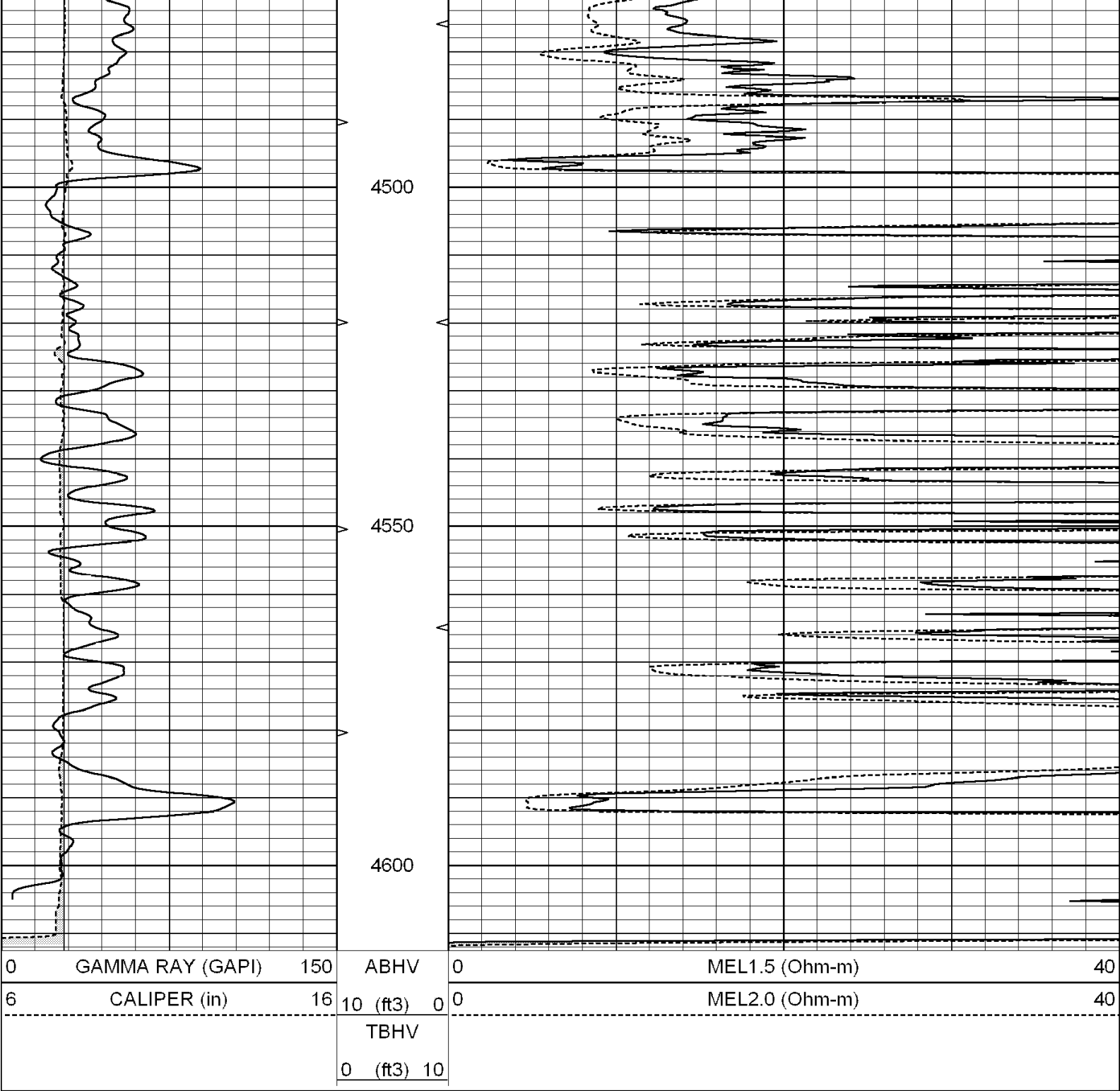
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REPEAT SECTION

Database File: 004840ddn.db
 Dataset Pathname: pass5.5
 Presentation Format: micro
 Dataset Creation: Mon Mar 29 17:21:45 2010 by Calc Open-Cased 060407
 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			





Calibration Report			
Database File:	004840ddn.db		
Dataset Pathname:	pass6.4		
Dataset Creation:	Mon Mar 29 18:18:08 2010		
MICRO Calibration Report			
Serial Number:	2		
Tool Model:	PROBE		
Performed:	Mon Mar 29 17:20:12 2010		
Caliper Calibration:	Gain=5.421	Offset=2.086	
References Readings	Low Cal	High Cal	
	7.000	14.000	
	0.906	2.198	

1.5" Calibration:	Gain=38.000	Offset=-3.700
References	Low Cal	High Cal
Readings	0.000	20.000
	0.065	1.210
2" Calibration:	Gain=42.000	Offset=-2.000
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:	Mon Mar 29 17:04:45 2010	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	0.5000	GAPI/cps