



SUPERIOR
Hays,
Kansas

SONIC LOG

Company LOTUS OPERATING COMPANY, LLC.	
Well #5 KOPPITZ	
Field STRANATHAN	
County BARBER	
State KANSAS	
Location: API # : 15-007-23782-0000	
670' FNL & 2290' FEL	
SEC 2 TWP 35S RGE 12W	
Permanent Datum GROUND LEVEL Elevation 1391	Other Services CDL/CNL/PE DIL/MEL
Log Measured From KELLY BUSHING 12' A.G.L.	
Drilling Measured From KELLY BUSHING	Elevation K.B. 1403 D.F. 1401 G.L. 1391
Date 10/24/11	
Run Number TWO	
Depth Driller 5500	
Depth Logger 5498	
Bottom Logged Interval 5485	
Top Log Interval 3700	
Casing Driller 10 3/4"@263'	
Casing Logger 263	
Bit Size 7 7/8"	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 4,500 PPM
Density / Viscosity 9.2/54	
pH / Fluid Loss 9.6/10.5	
Source of Sample FLOWLINE	
Rm @ Meas. Temp 2.00@90F	
Rmt @ Meas. Temp 1.50@90F	
Rmc @ Meas. Temp 2.40@90F	
Source of Rmt / Rmc MEASUREMENT	
Rm @ BHT 1.38@130F	
Time Circulation Stopped 5 HOURS	
Time Logger on Bottom 4:30 P.M.	
Maximum Recorded Temperature 130F	
Equipment Number 4010	
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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS

MEDICINE LODGE, KS. (JUNCTION OF HWY 160 & 281) 16 1/2S. ON HWY 281 TO "DRIFTWOOD RD.",
1W., JOG N. TO "DRIFTWOOD RD.", 1/2 W., S. INTO

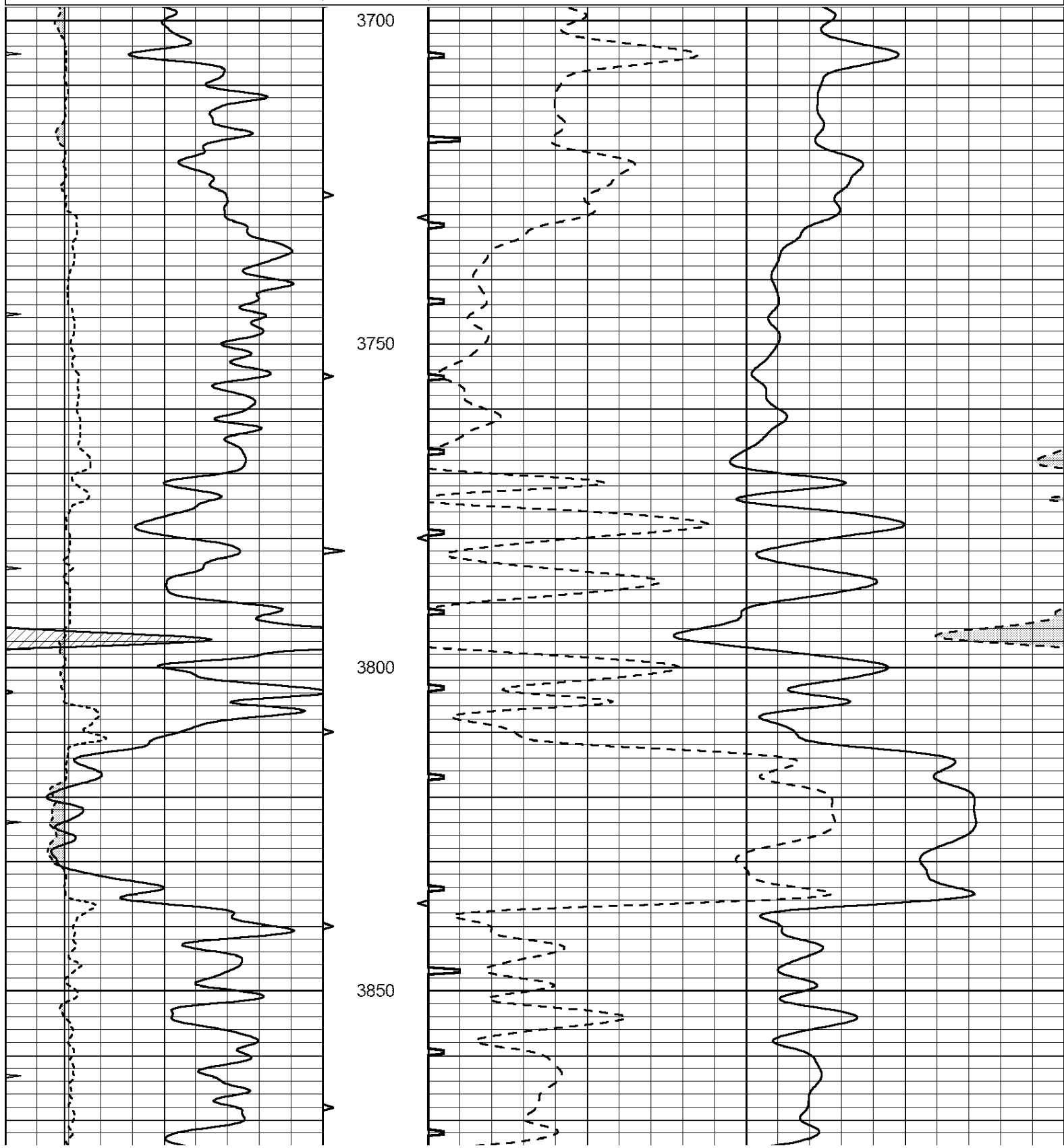


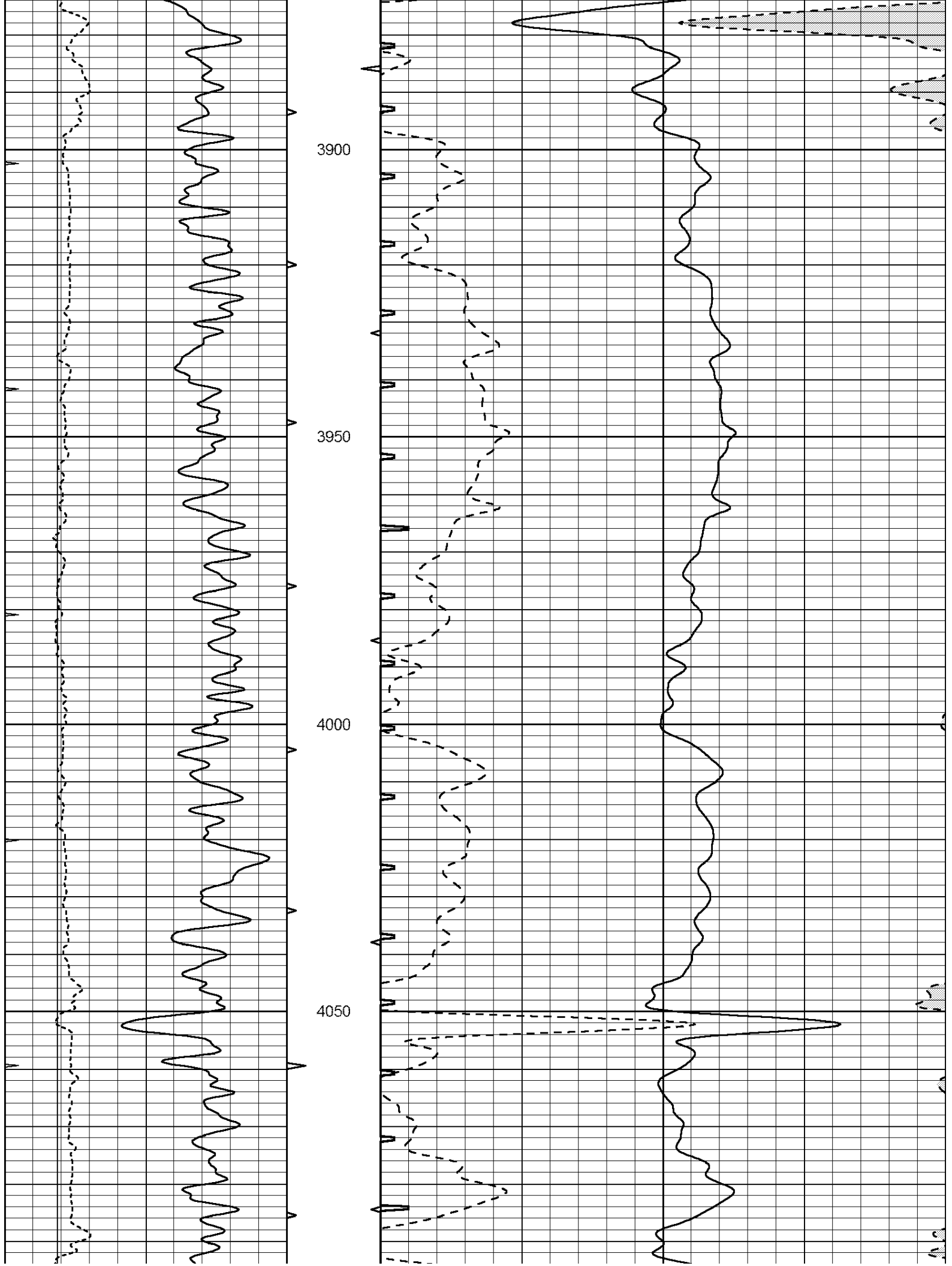
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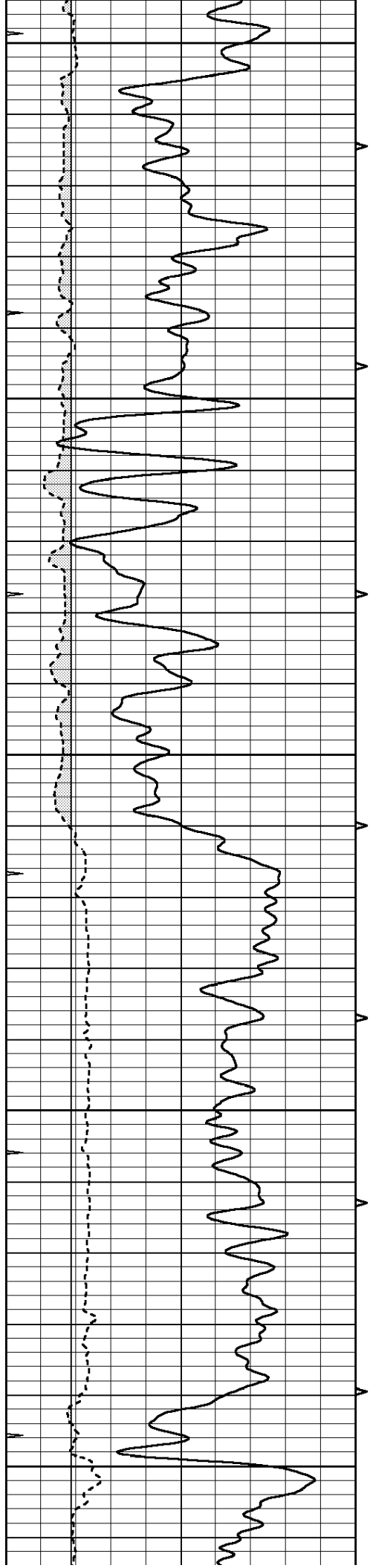
MAIN SECTION

Database File: 007471pe.db
Dataset Pathname: pass7.2
Presentation Format: slt
Dataset Creation: Mon Oct 24 20:34:51 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			







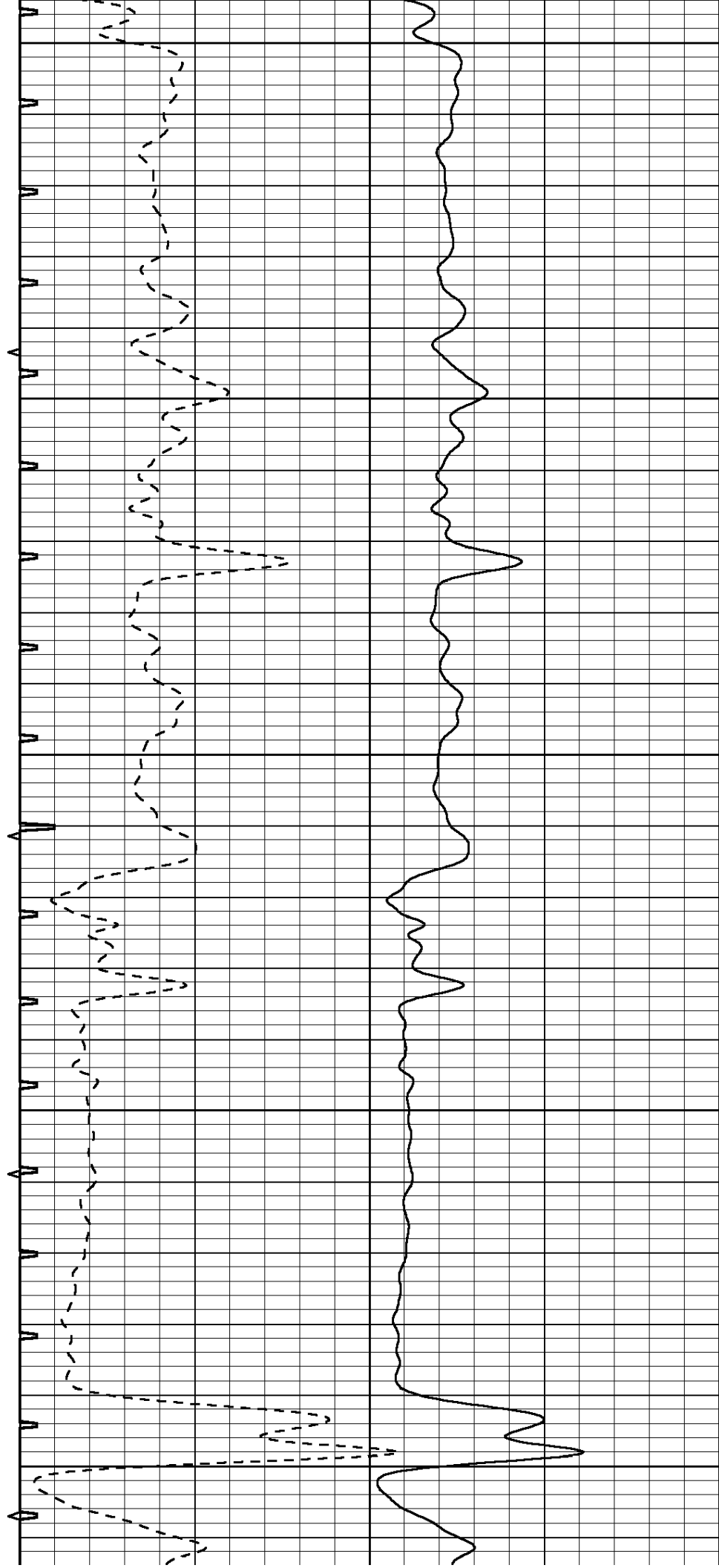
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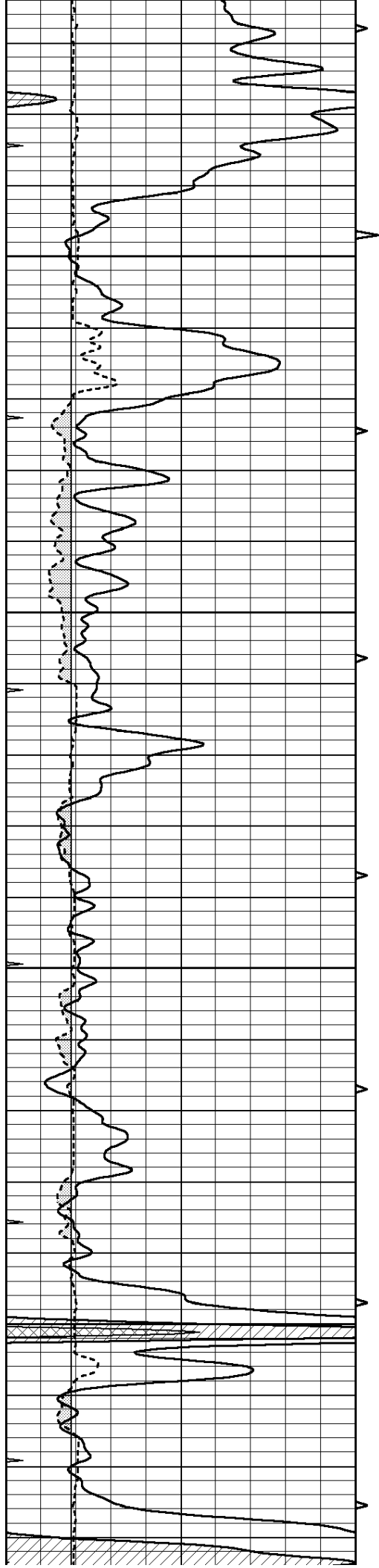
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4200

4250

4300



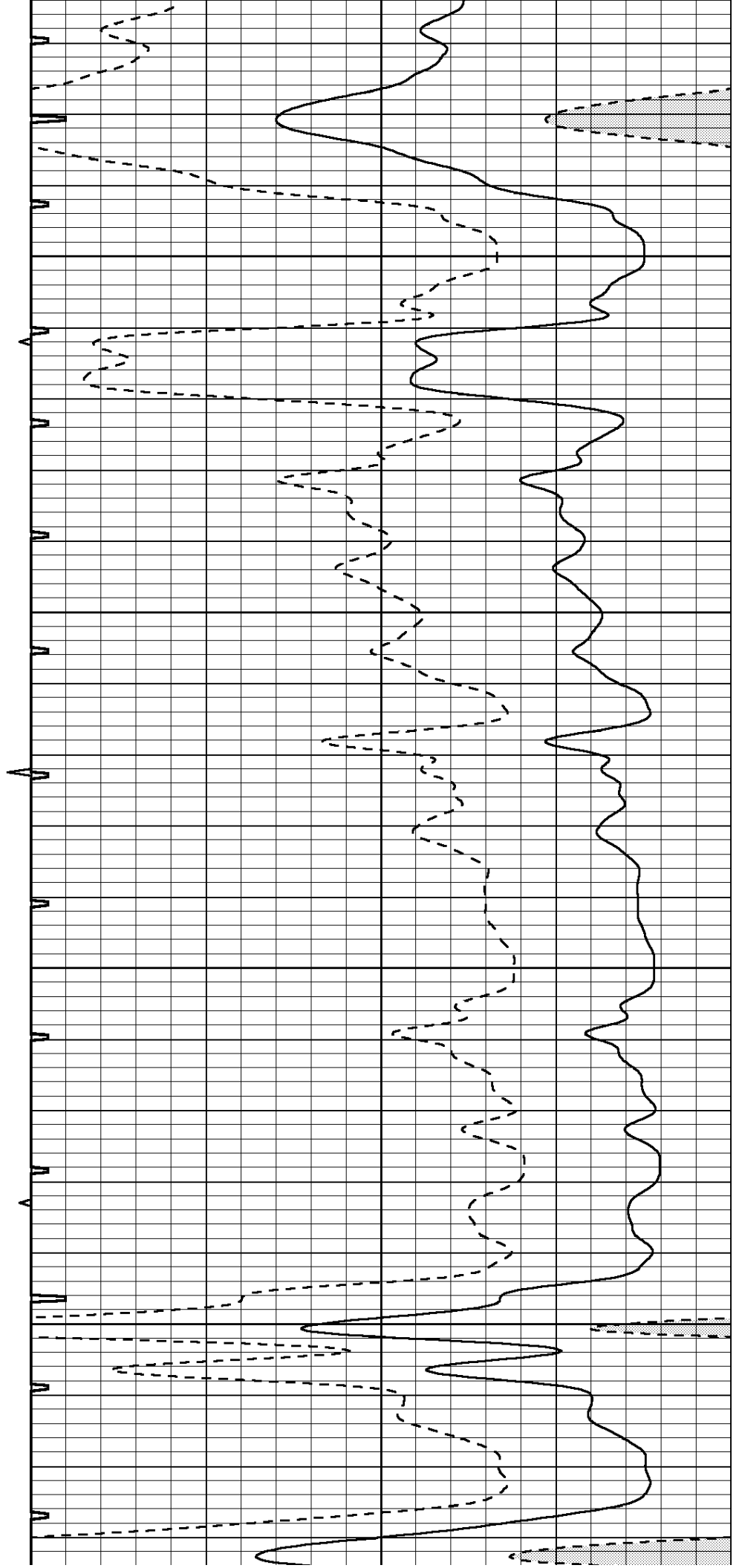


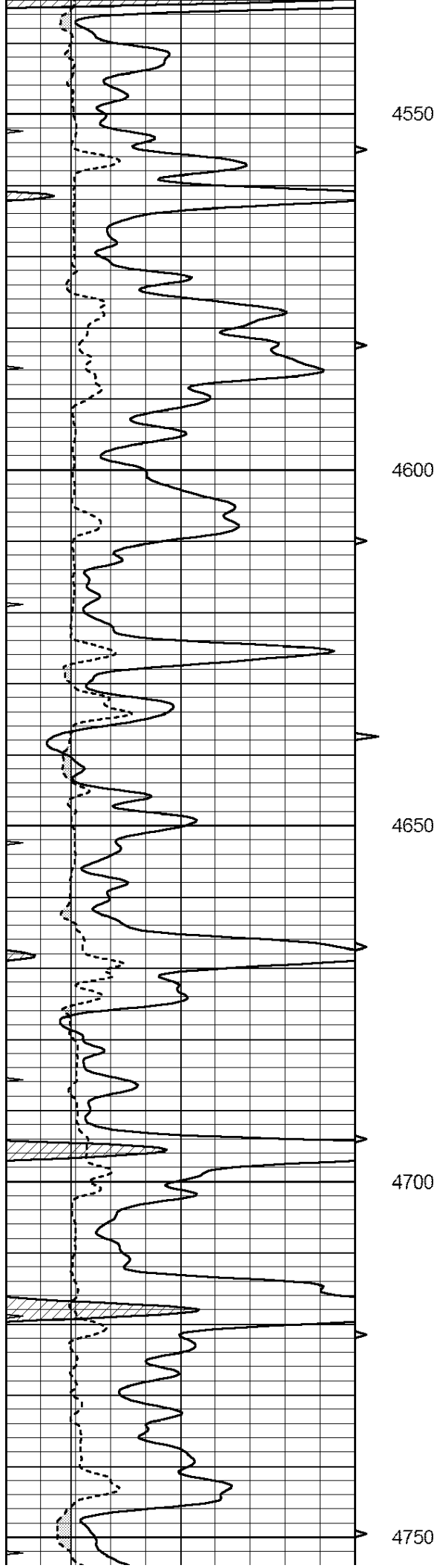
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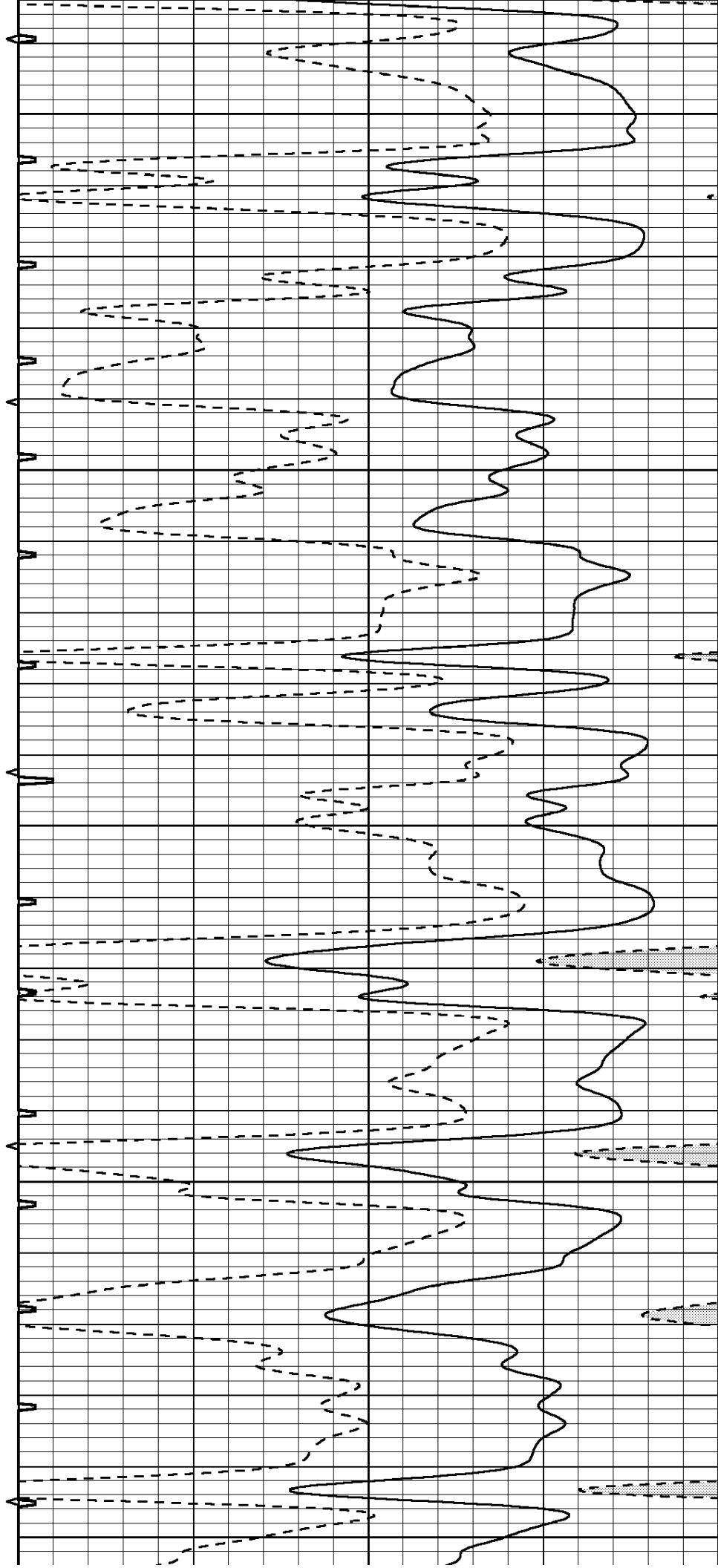
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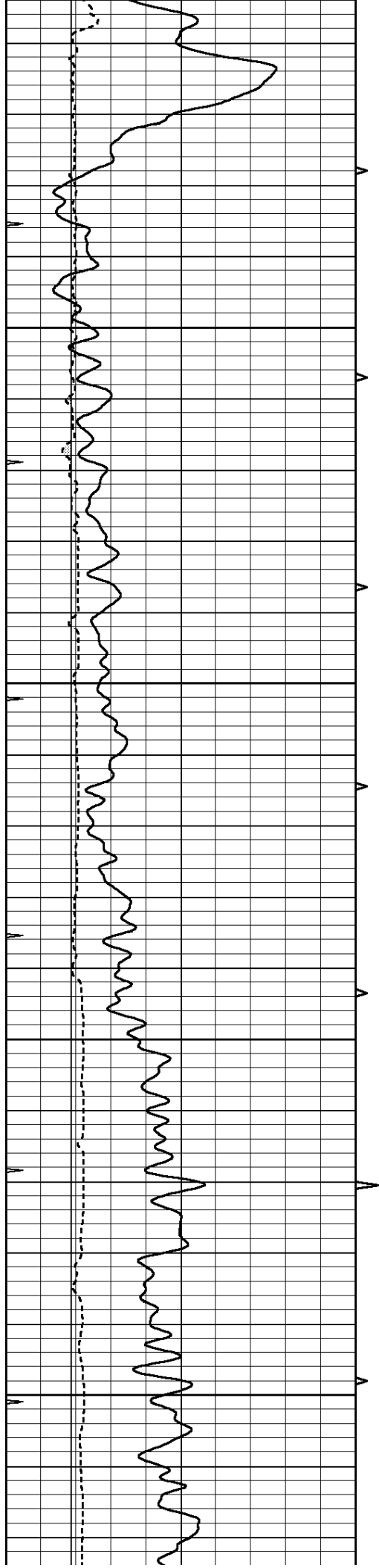
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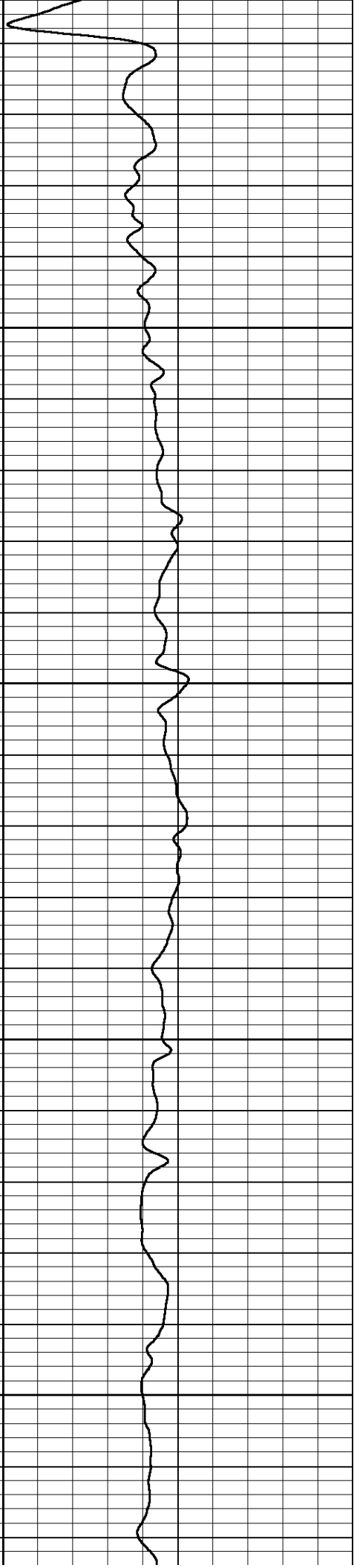
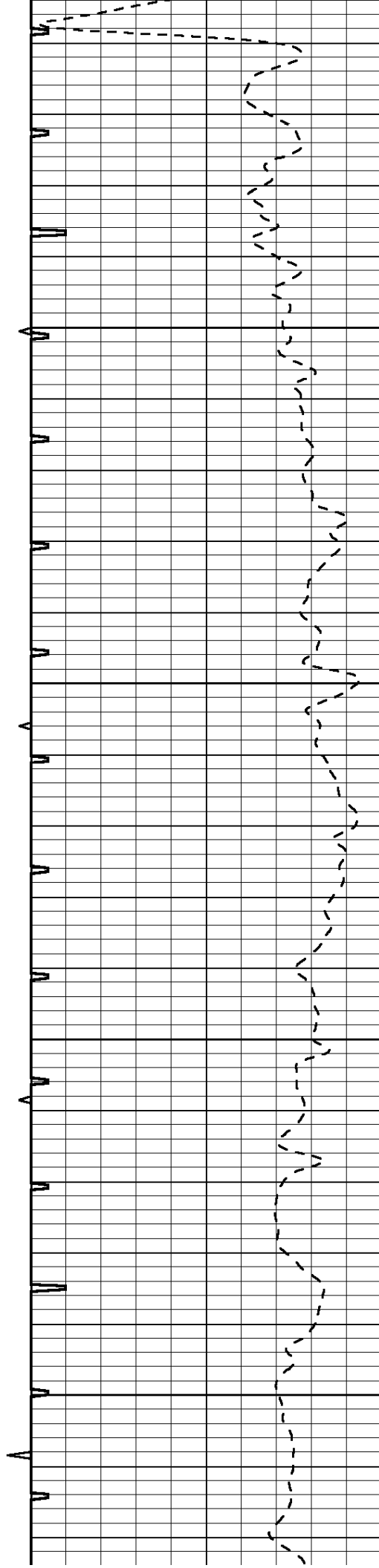


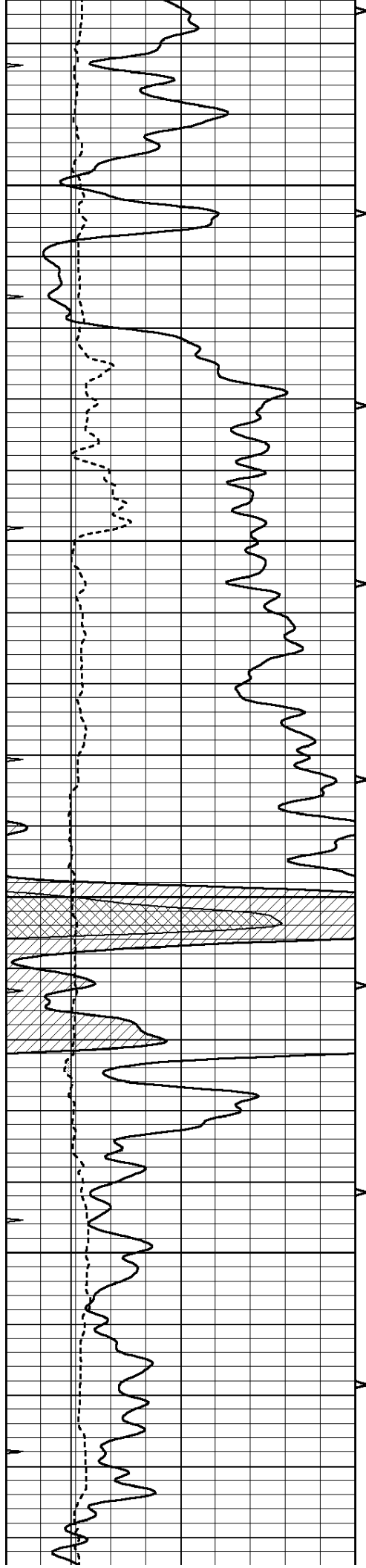
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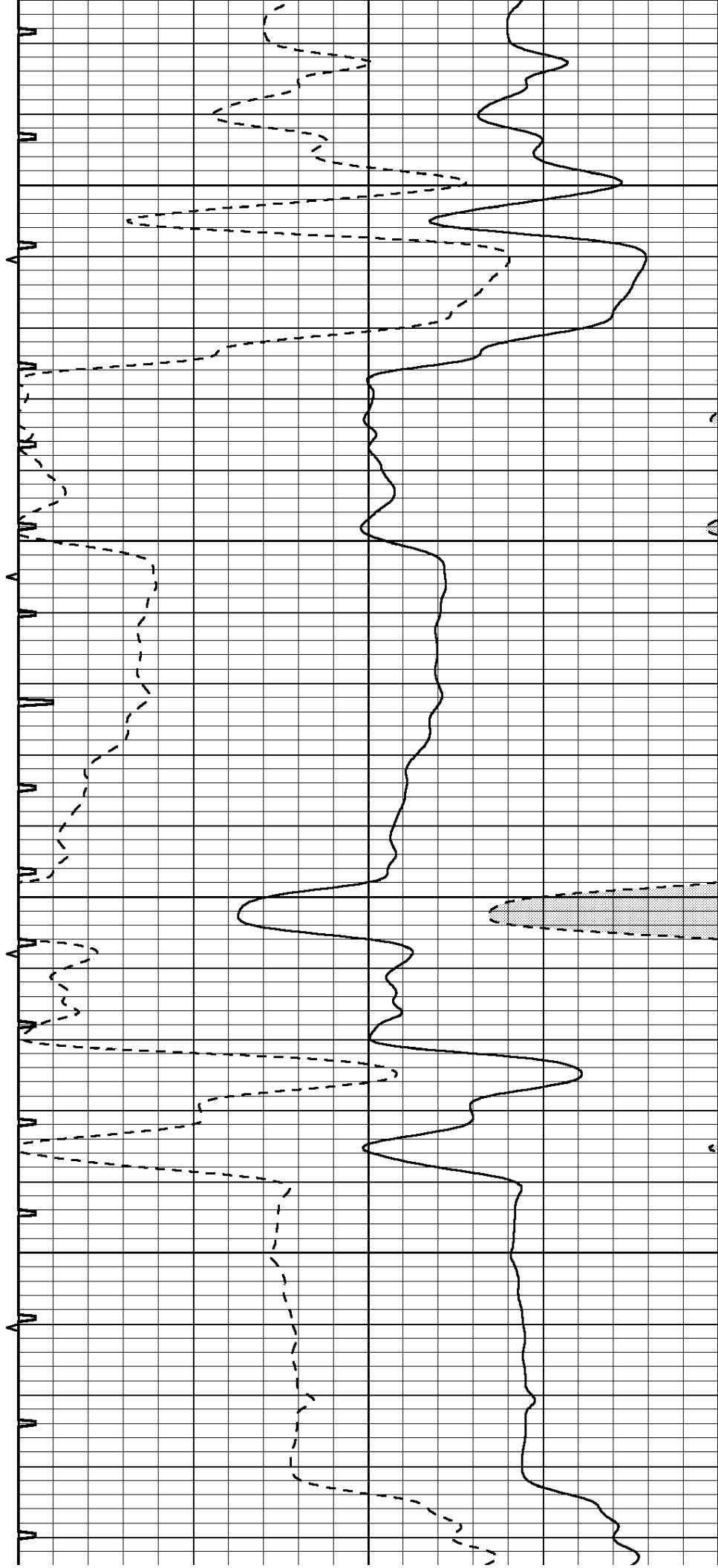


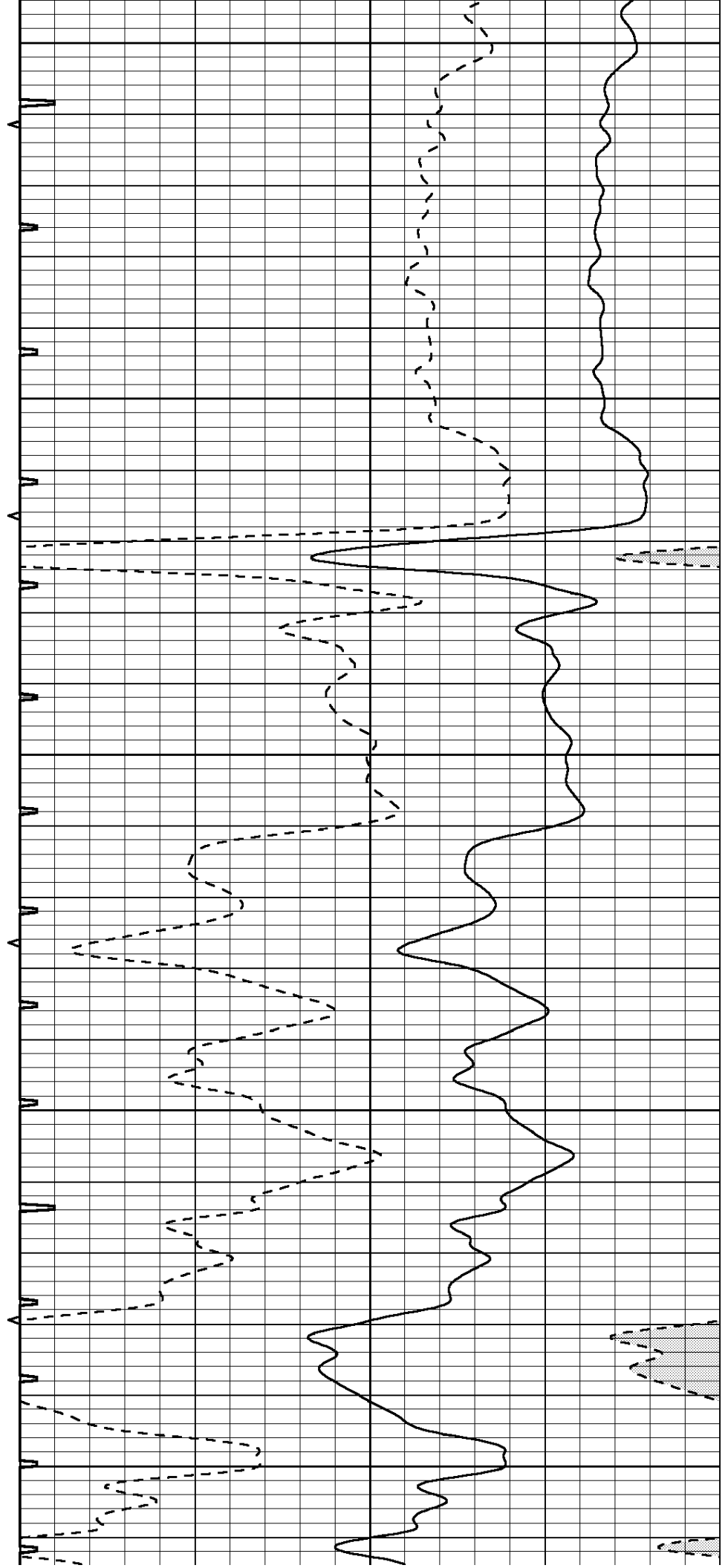
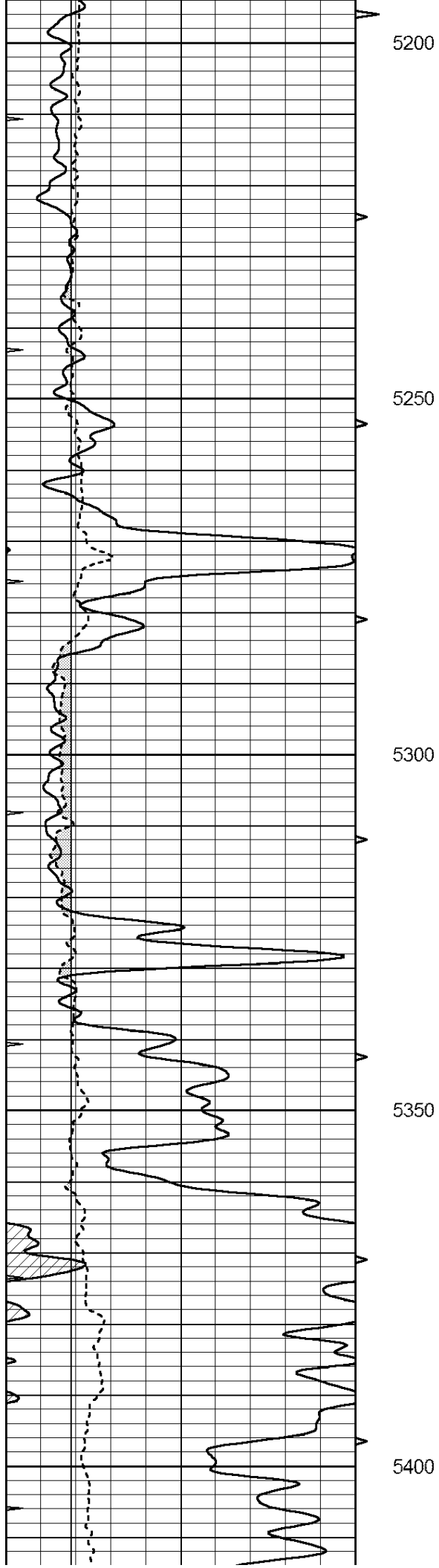
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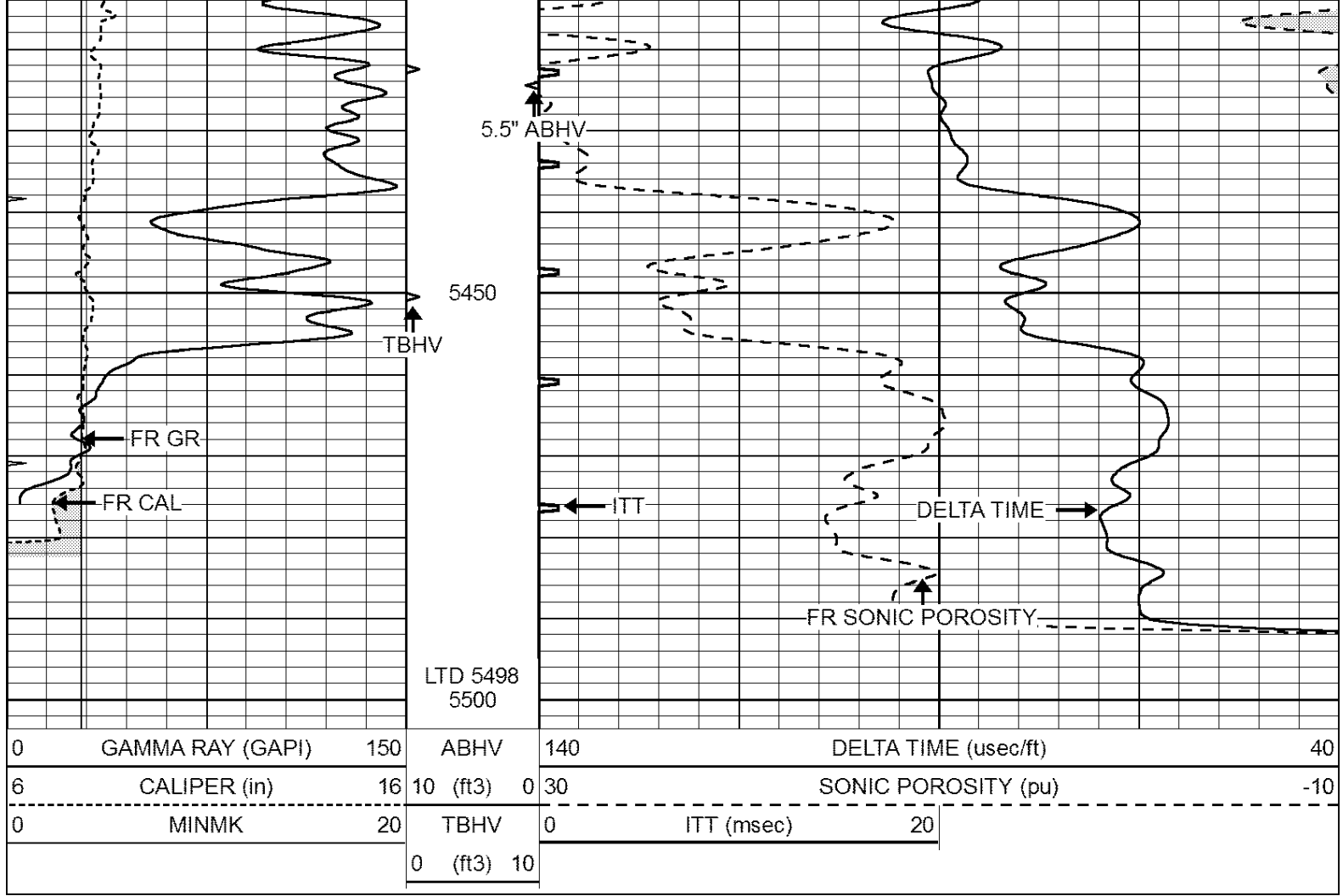
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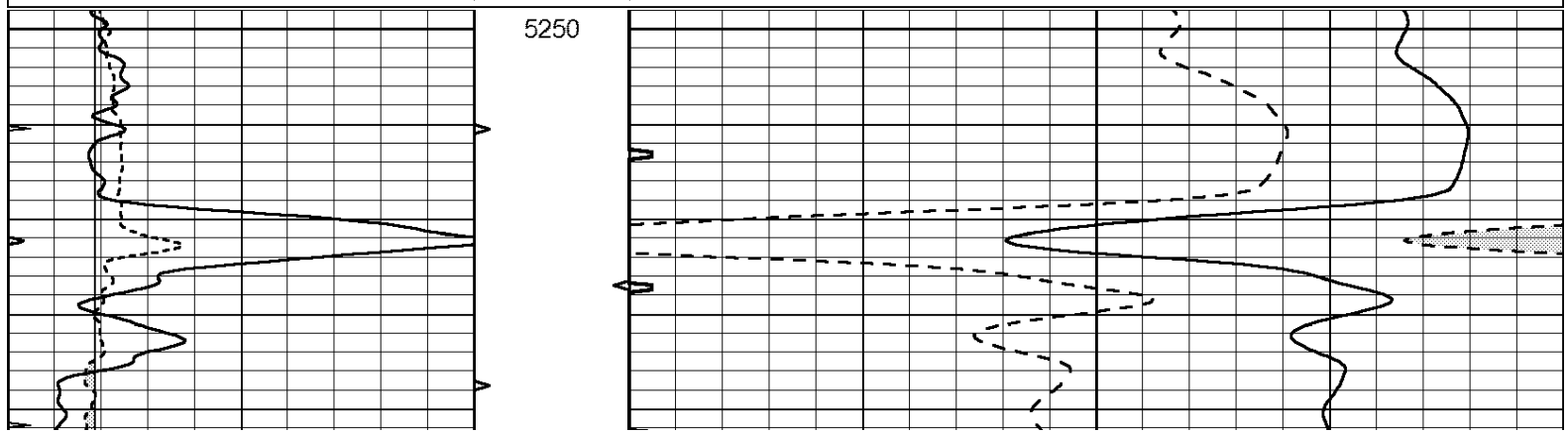


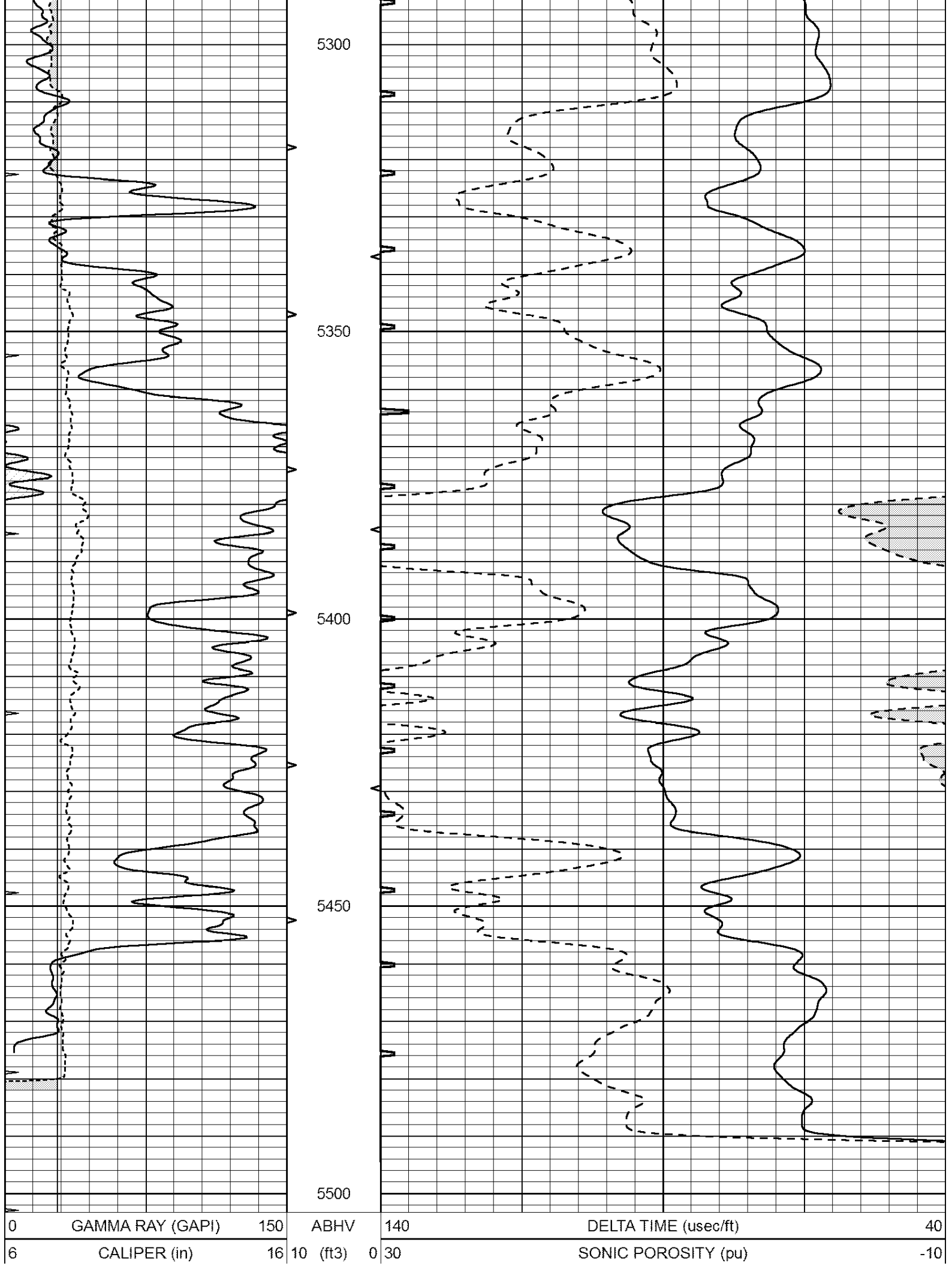
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REPEAT SECTION

Database File: 007471pe.db
 Dataset Pathname: pass5.1
 Presentation Format: slt
 Dataset Creation: Mon Oct 24 19:34:56 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		





0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			