



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company LOTUS OPERATING COMPANY, LLC.	
Well #5 KOPPITZ	
Field STRANATHAN	
County BARBER	
State KANSAS	
Company LOTUS OPERATING COMPANY, LLC.	
Well #5 KOPPITZ	
Field STRANATHAN	
County BARBER	
State KANSAS	
Location: 670' FNL & 2290' FEL	API # : 15-007-23782-0000
SEC 2 TWP 35S RGE 12W	Other Services DIL/MEL SONIC
Permanent Datum GROUND LEVEL Elevation 1391	Elevation
Log Measured From KELLY BUSHING 12' A.G.L.	K.B. 1403
Drilling Measured From KELLY BUSHING	D.F. 1401
	G.L. 1391
Date 10/24/11	
Run Number ONE	
Depth Driller 5500	
Depth Logger 5498	
Bottom Logged Interval 5474	
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 3.5 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

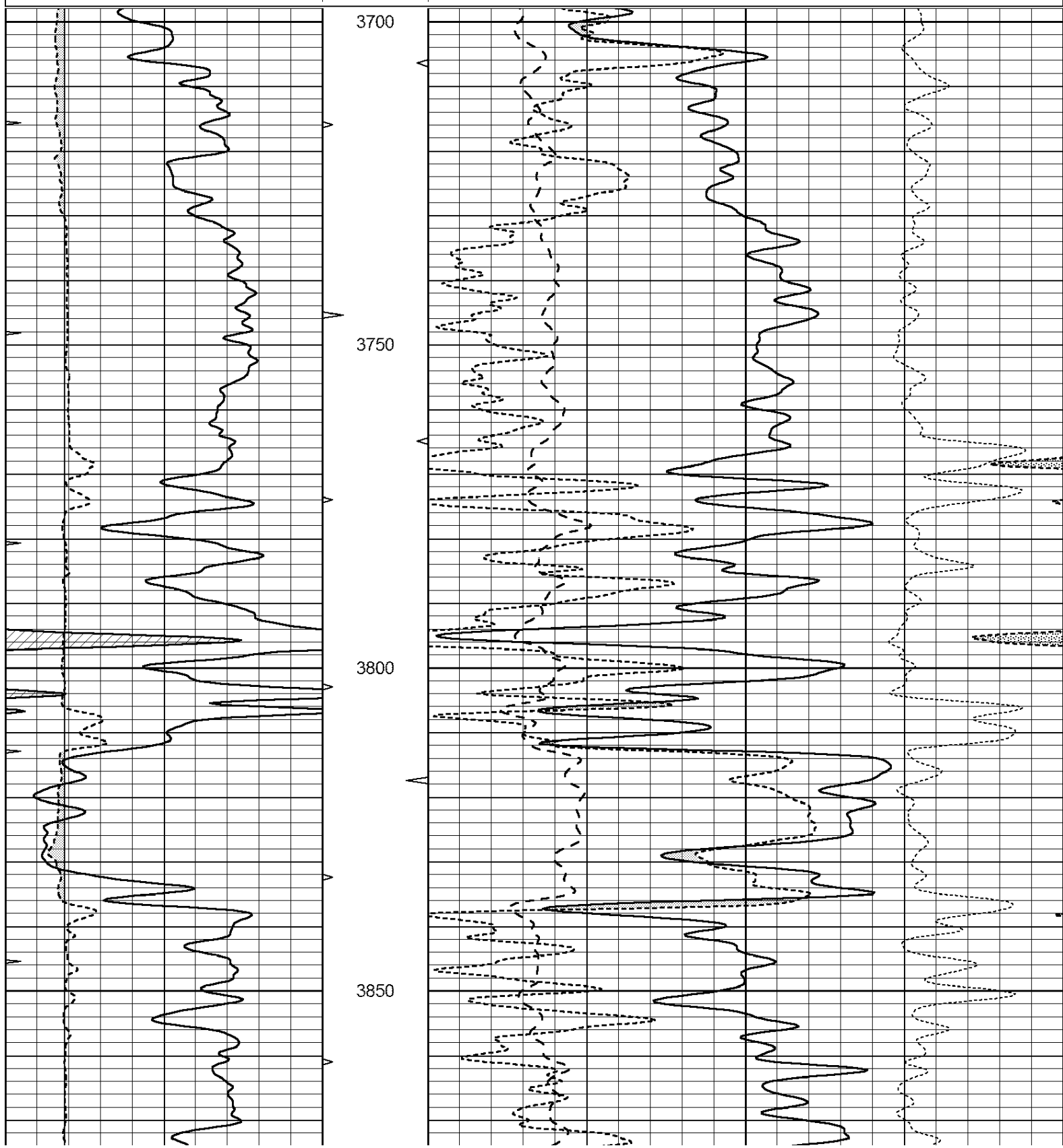


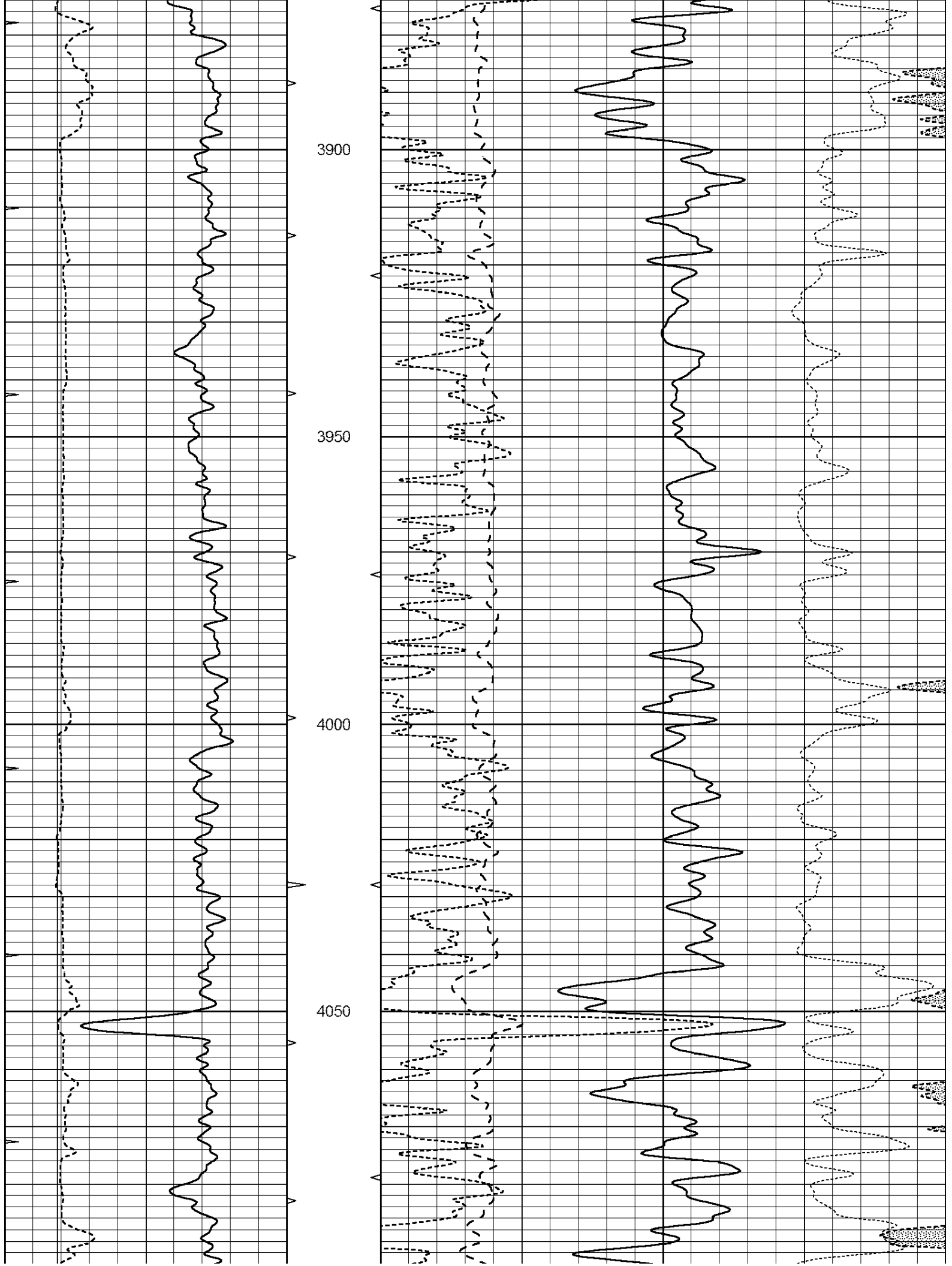
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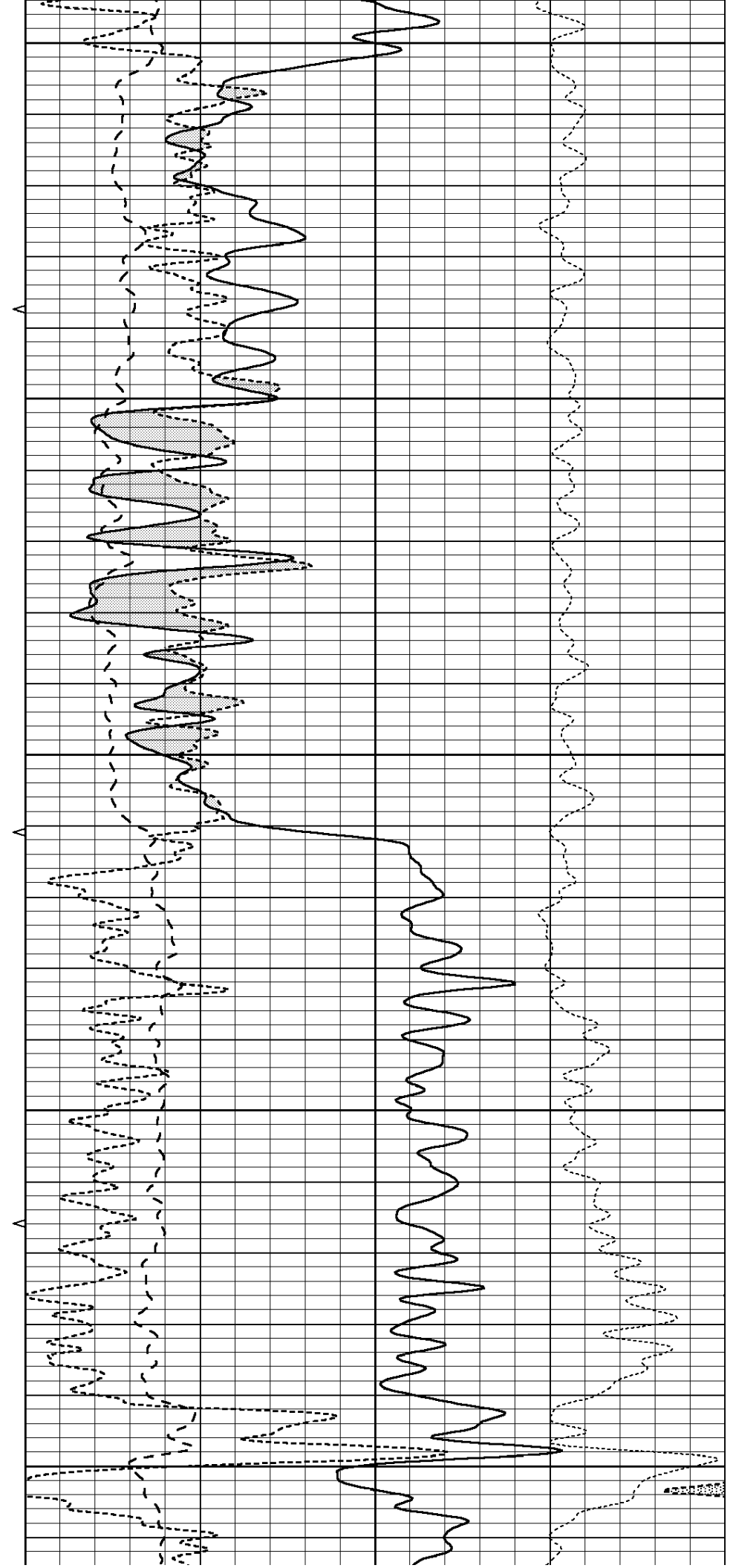
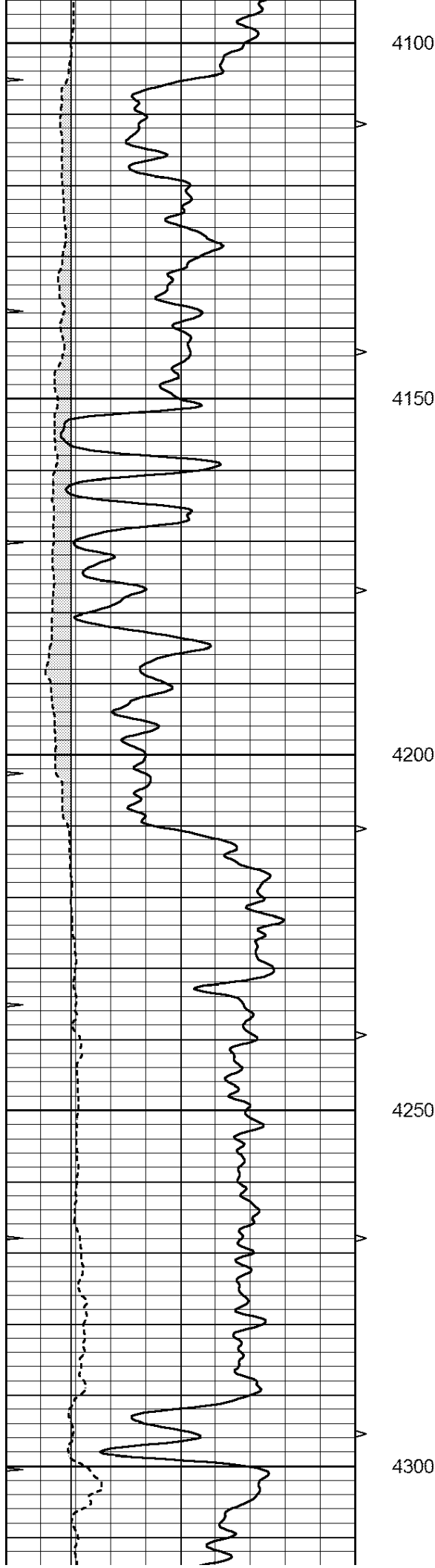
MAIN SECTION

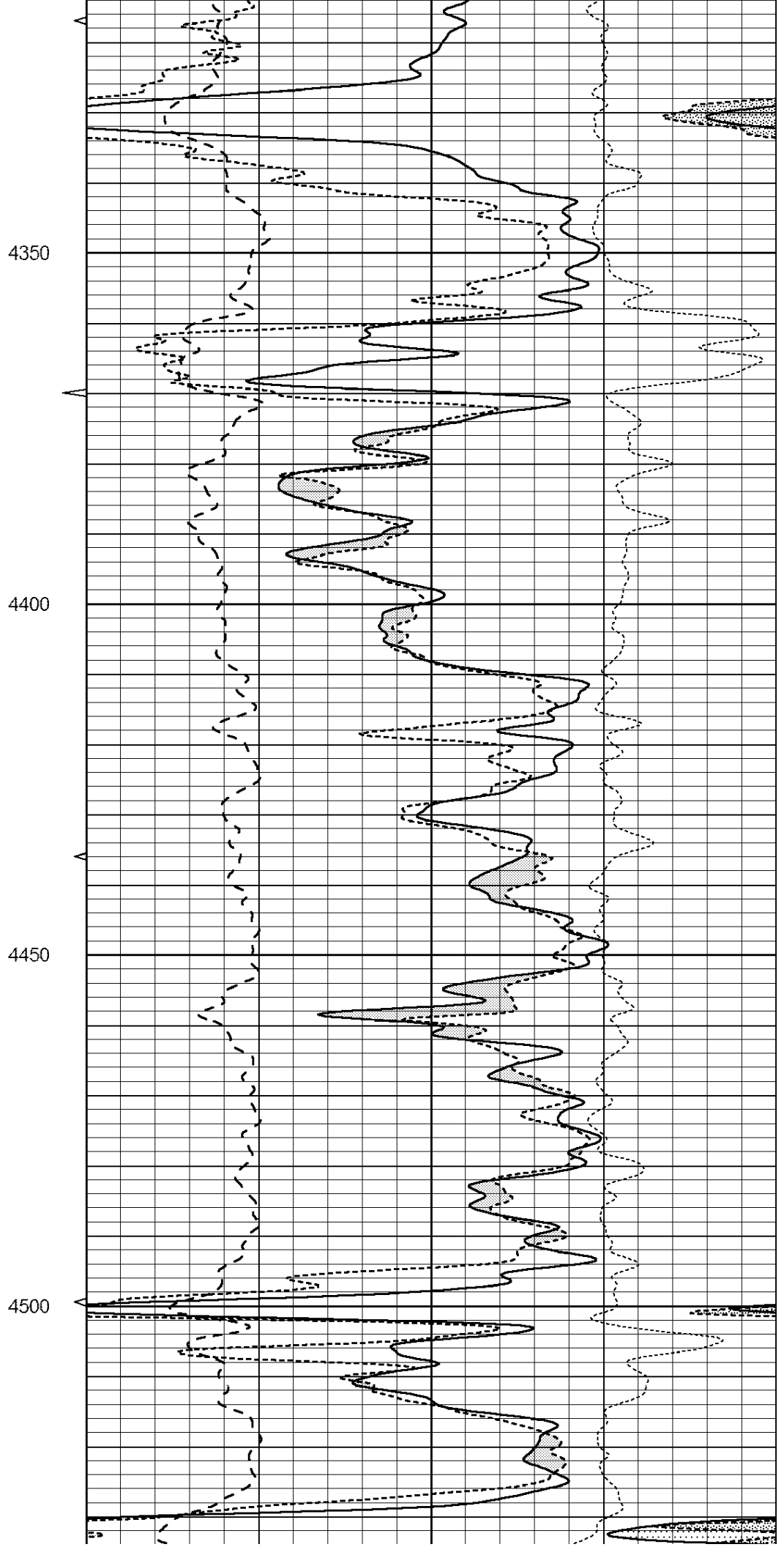
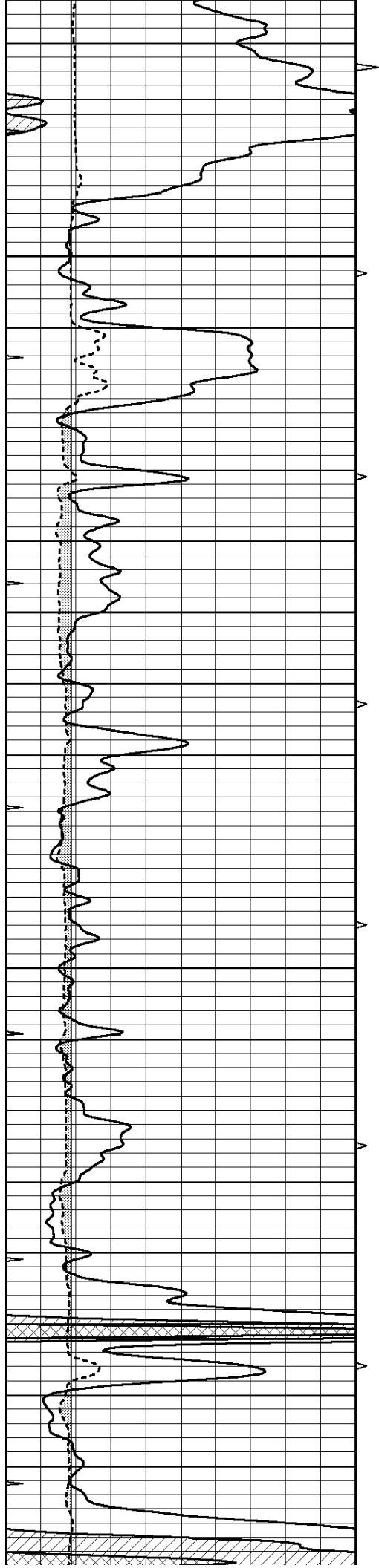
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Dataset Pathname: pass3.16
Presentation Format: ldt_neu
Dataset Creation: Mon Oct 24 18:39:21 2011
Charted by: Depth in Feet scaled 1:240

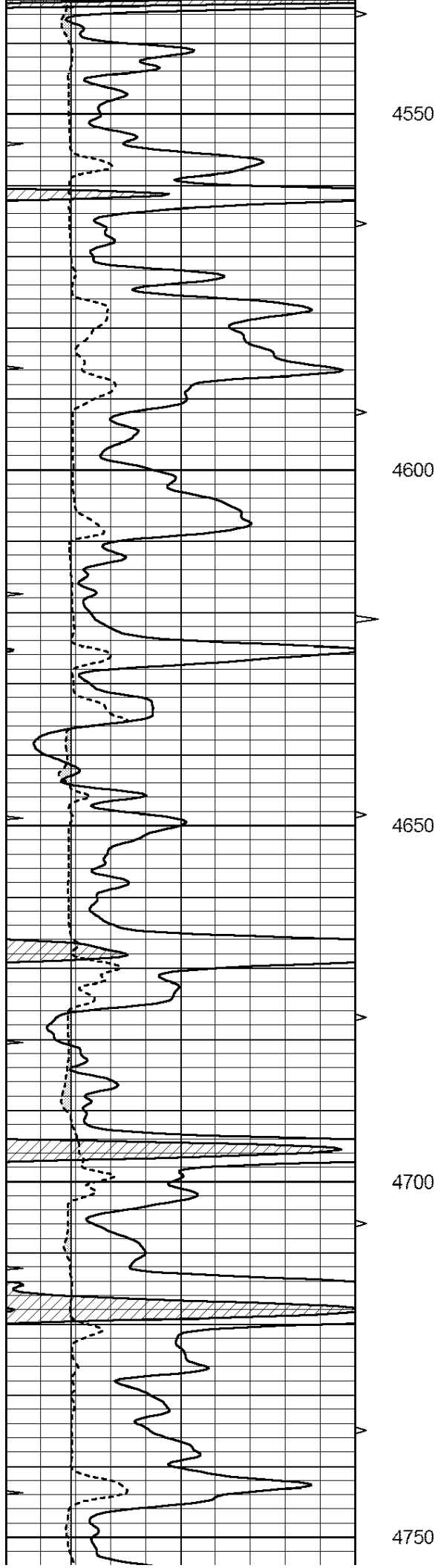
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6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			











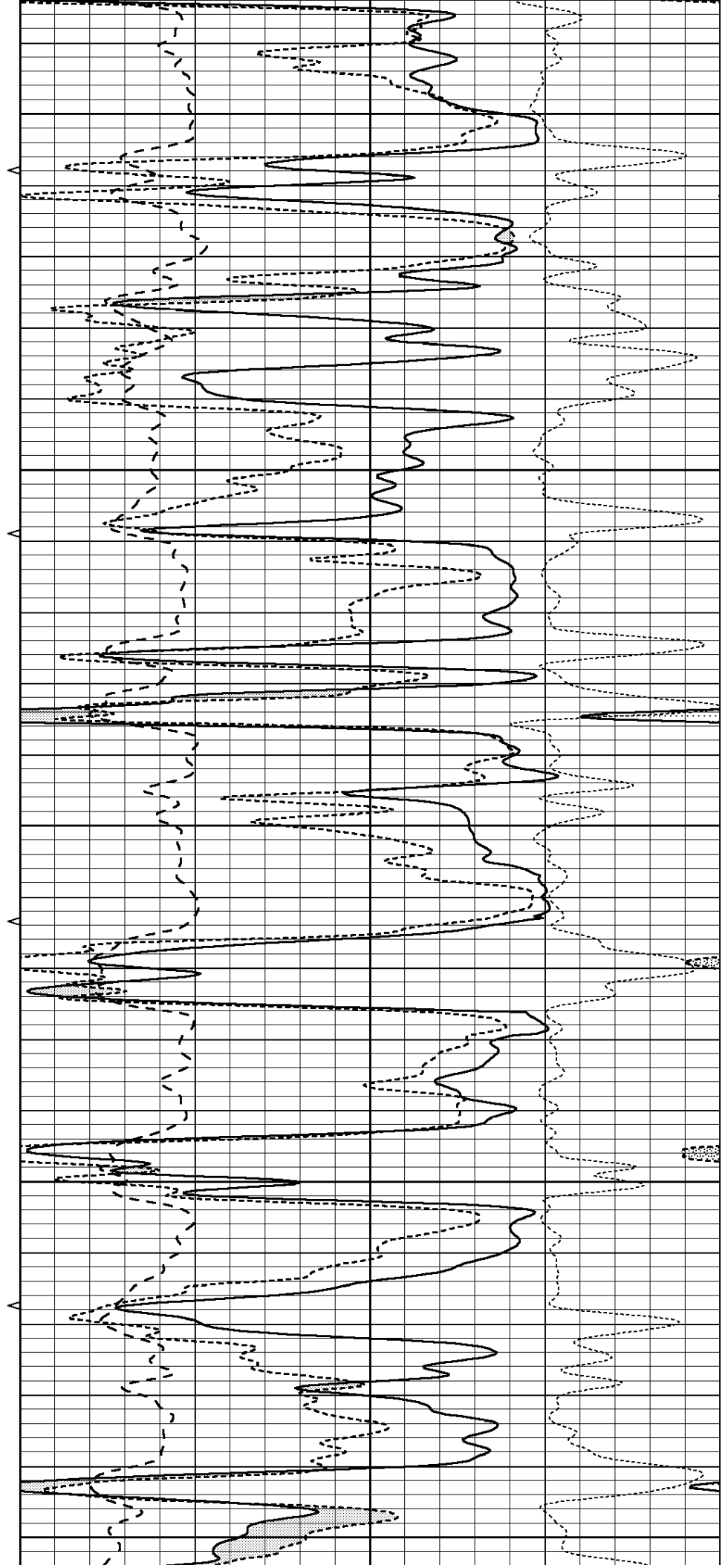
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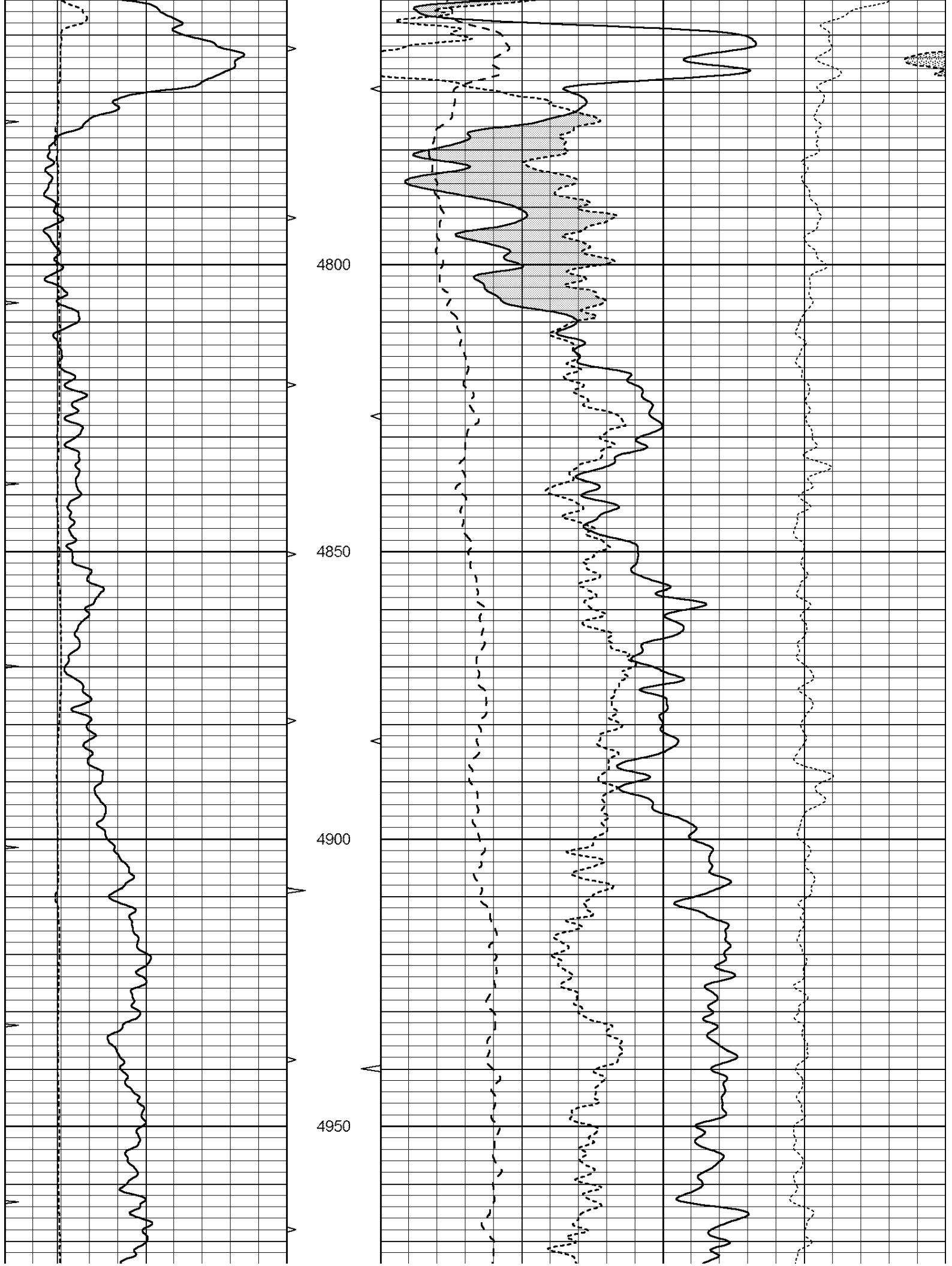
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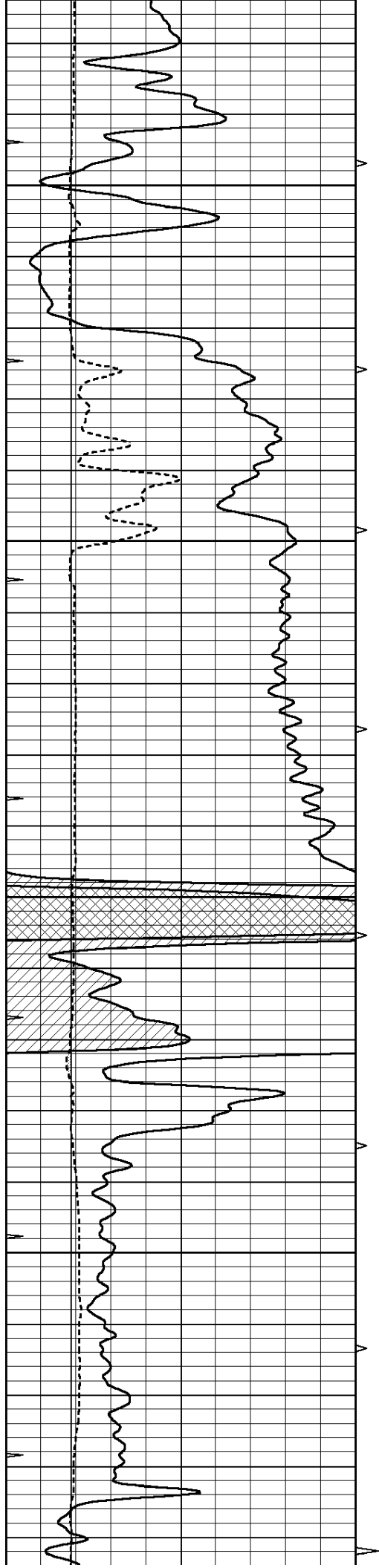
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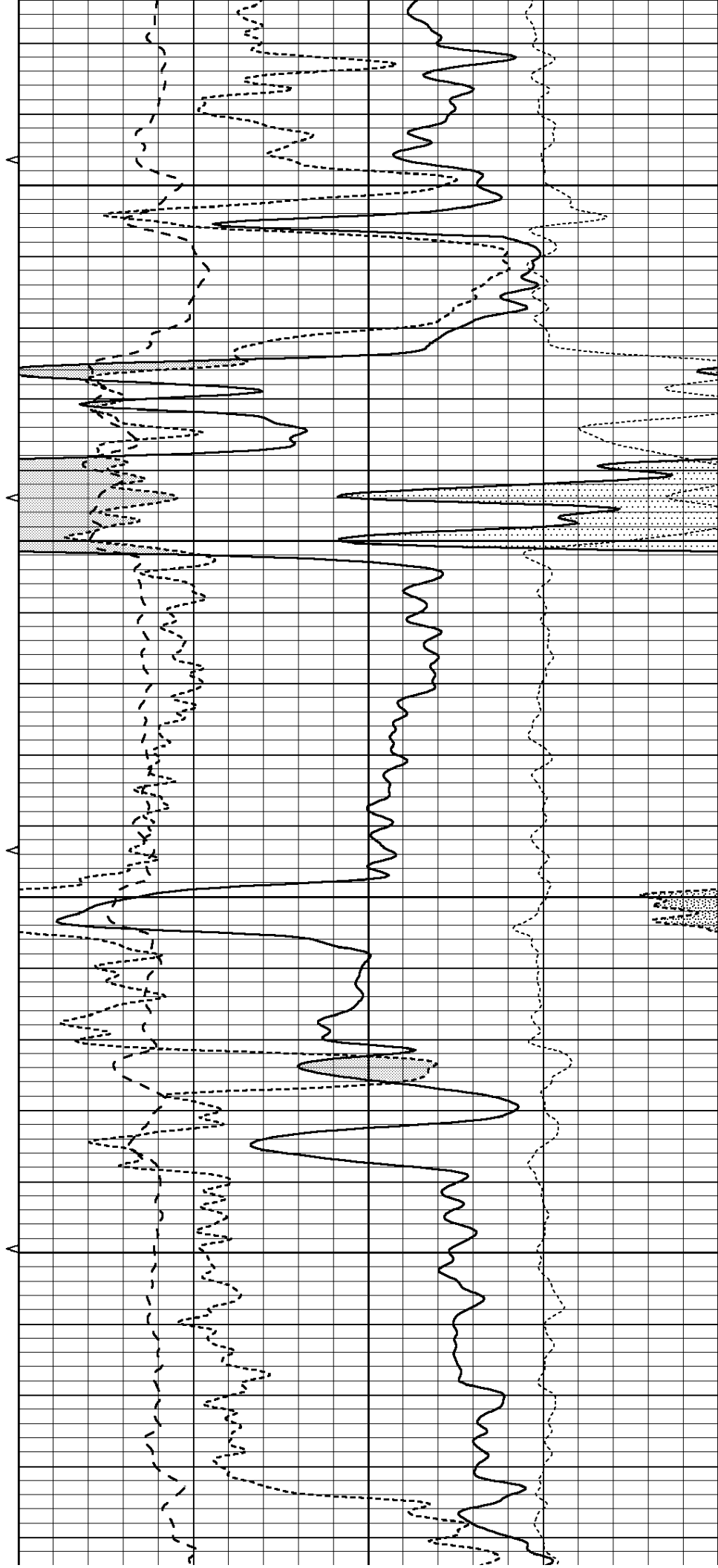


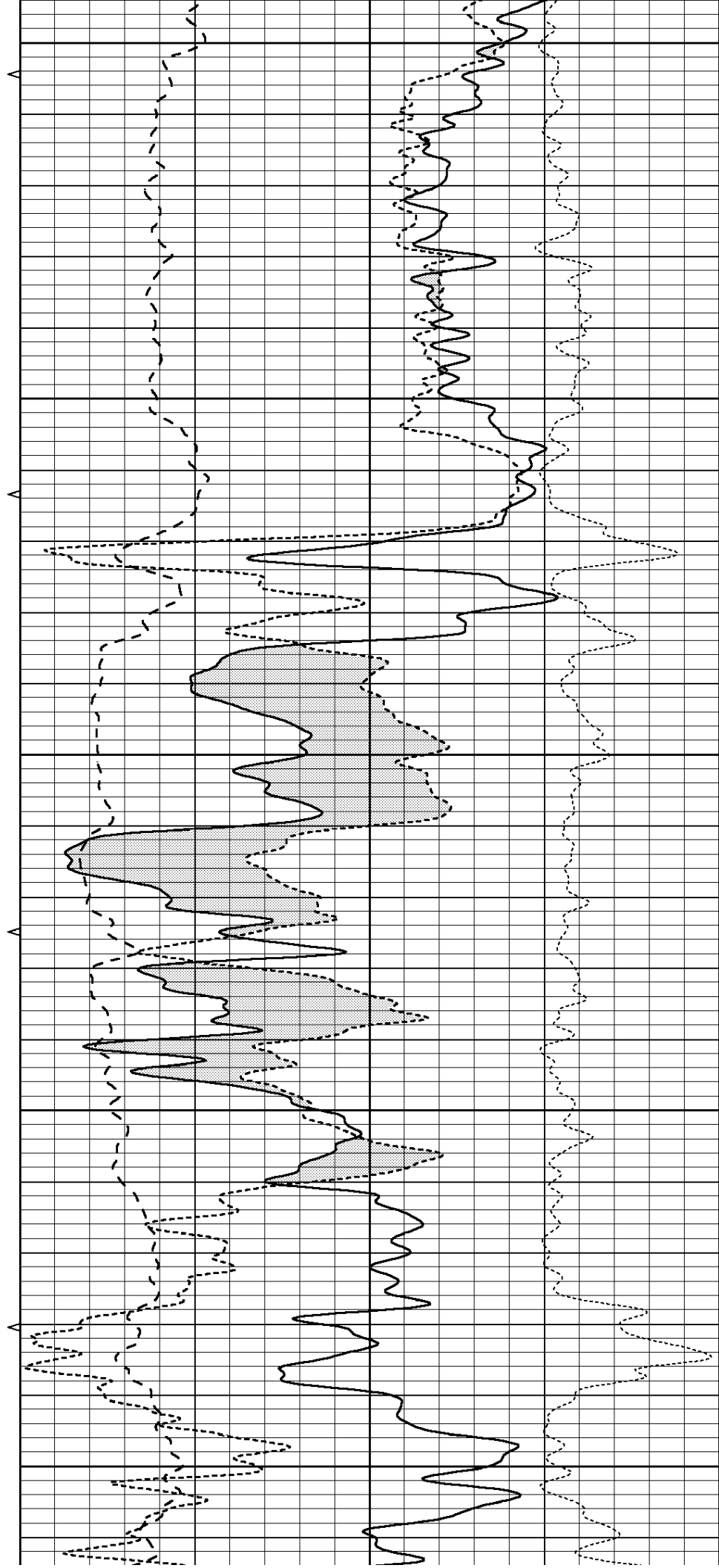
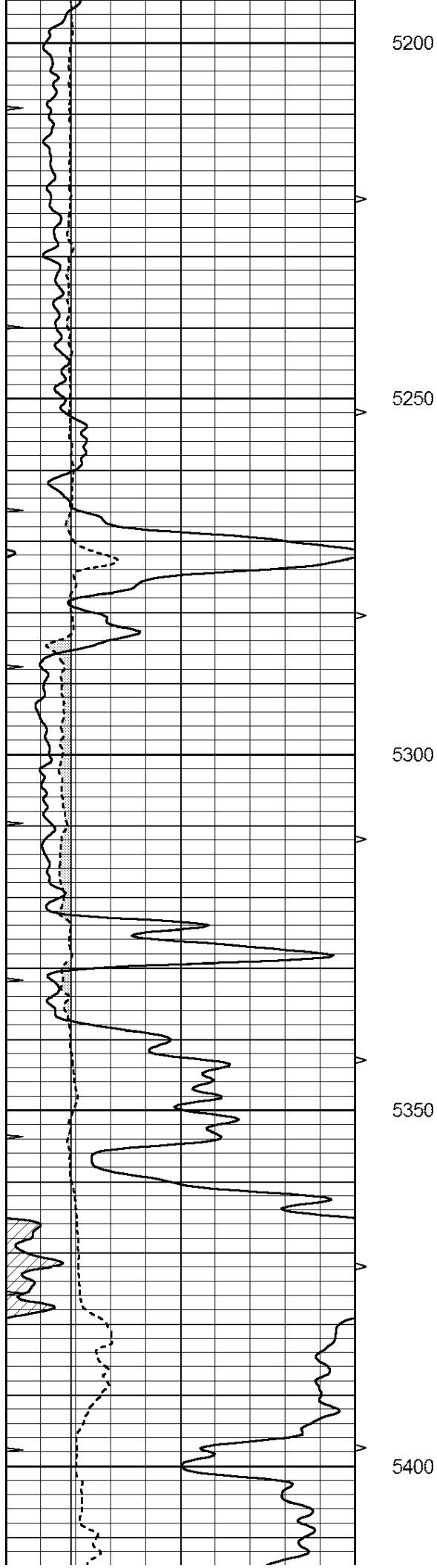
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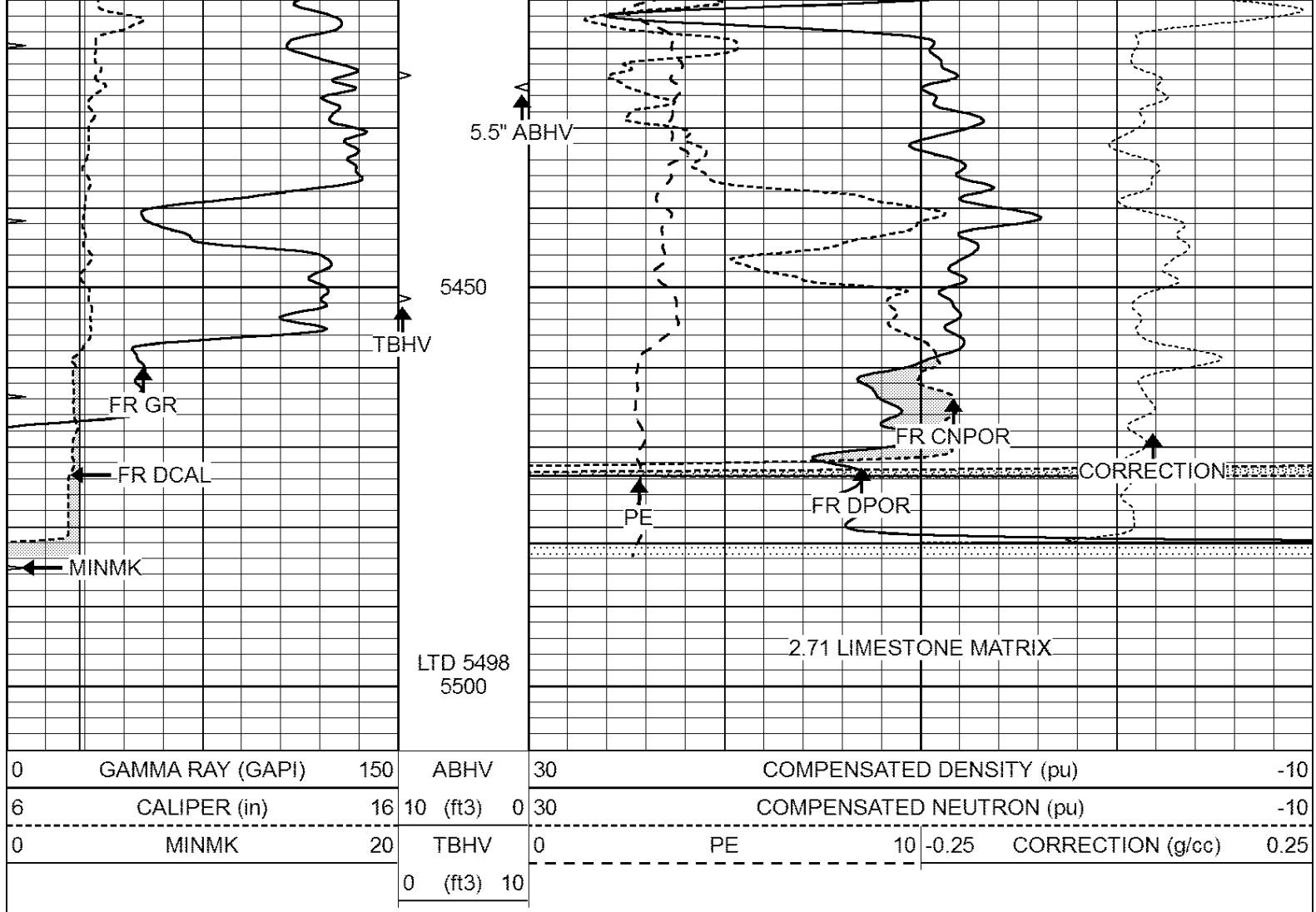
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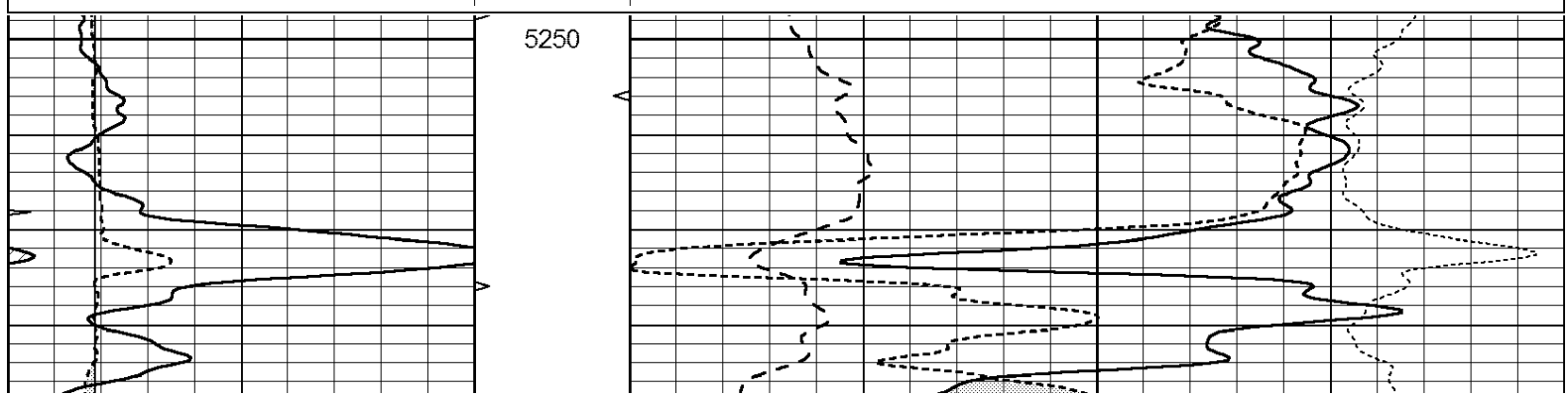


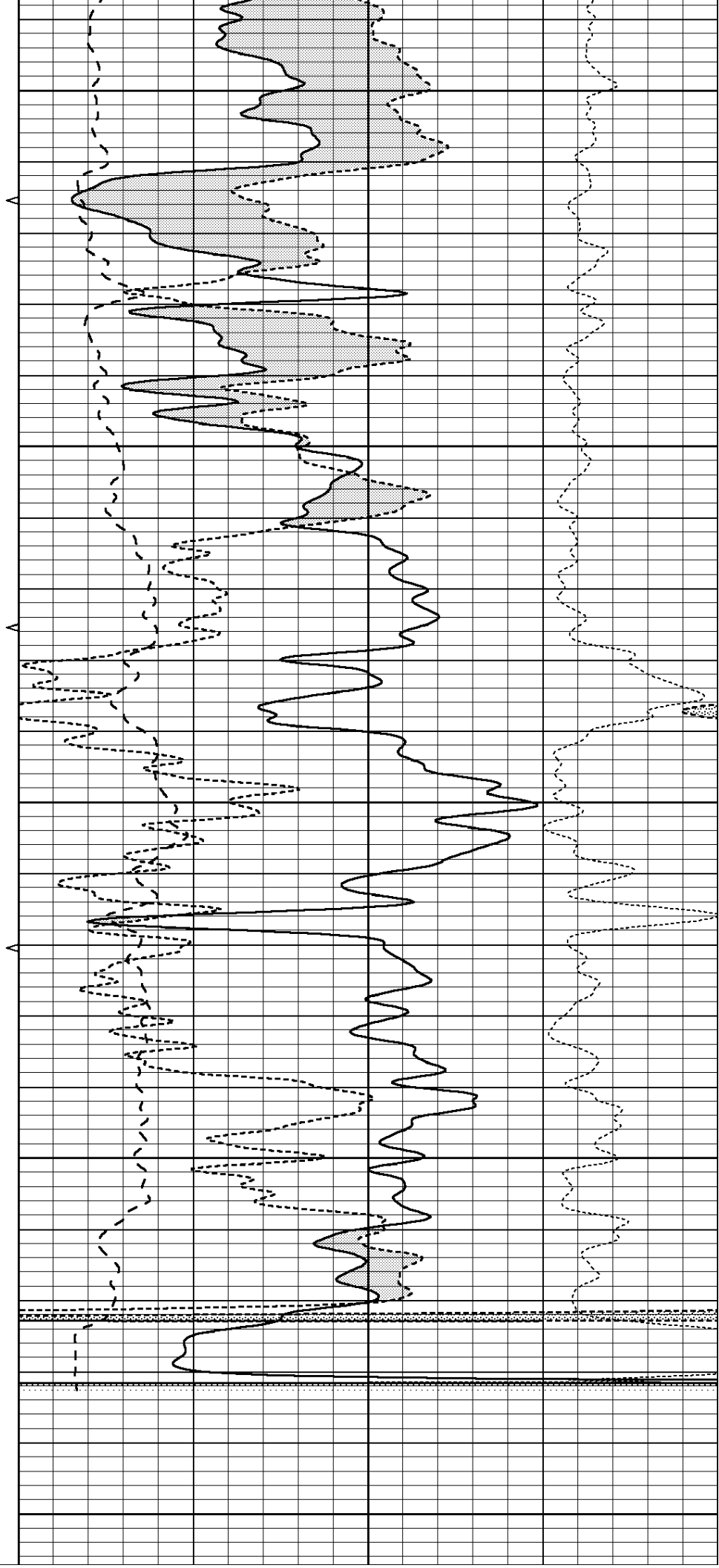
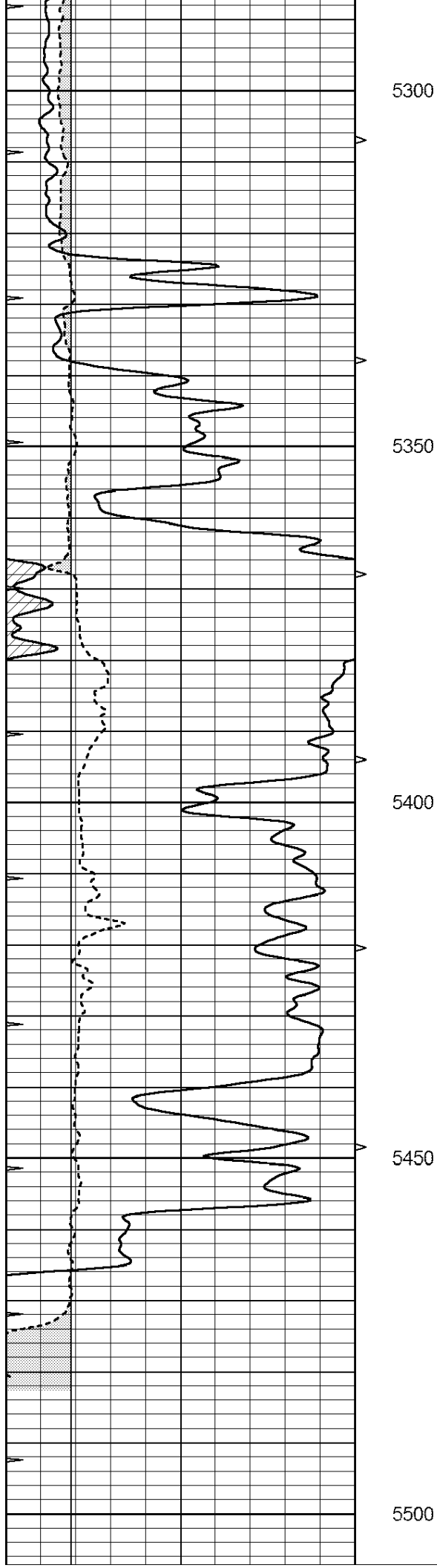
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REPEAT SECTION

Database File: 007471pe.db
 Dataset Pathname: pass2.6
 Presentation Format: ldt_neu
 Dataset Creation: Mon Oct 24 17:02:12 2011
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		





0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10					

Calibration Report									
Database File:		007471pe.db							
Dataset Pathname:		pass3.16							
Dataset Creation:		Mon Oct 24 18:39:21 2011							
Dual Induction Calibration Report									
Serial-Model: Performed:				DIL3-GEAR Mon Oct 24 16:50:40 2011					

POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	070559		
Tool Model:	OPEN_GR		
Performed:	Mon Oct 24 16:50:24 2011		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2500	GAPI/cps	