



COMPENSATED
DENSITY / NEUTRON
PE LOG

Company WOOLSEY OPERATING COMPANY, INC.

Well McCRAKEN #1

Field WILDCAT

County BARBER State KANSAS

Location: API # : 15-007-24382-0000

987' FNL & 182' FEL
NE - SE - NE - NE

Other Services
DIL
SONIC

SEC 33 TWP 33S RGE 12W

Permanent Datum GROUND LEVEL Elevation 1559
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation

K.B. 1572
D.F. 1570
G.L. 1559

Date 6/19/21

Run Number ONE

Depth Driller 5285

Depth Logger 5287

Bottom Logged Interval 5263

Top Log Interval 1800

Casing Driller 8 5/8" @ 269'

Casing Logger 269

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD CHLORIDES 9,500 PPM

Density / Viscosity 9.4/57

pH / Fluid Loss 9.0/10.8

Source of Sample FLOWLINE

Rm @ Meas. Temp .510 @ 101F

Rmf @ Meas. Temp .383 @ 101F

Rmc @ Meas. Temp .612 @ 101F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .402 @ 128F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 9:00 A.M.

Maximum Recorded Temperature 128F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By BILL KLAVER

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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.

15-007-24382-0000

Comments

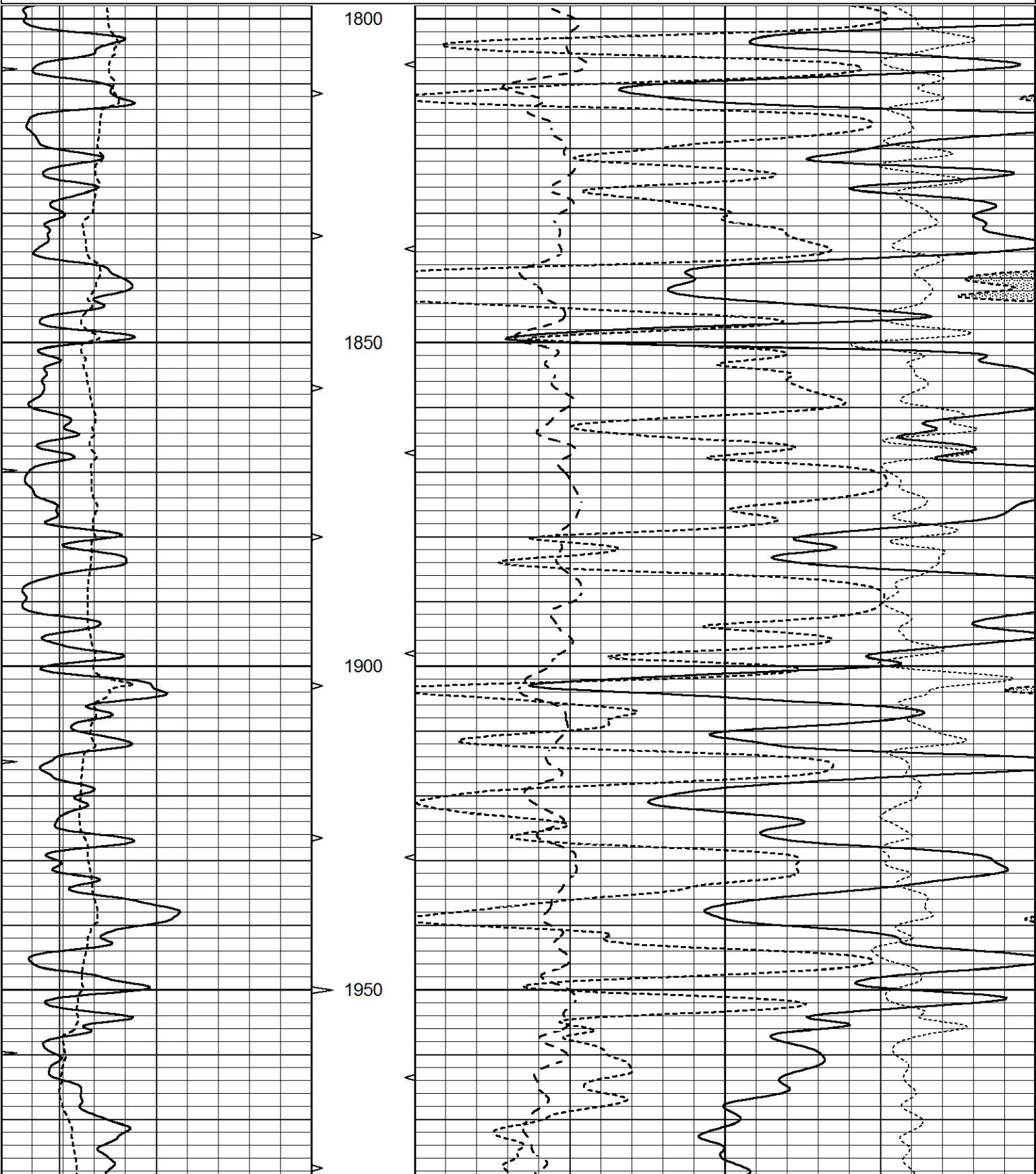
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS., 9S. ON HWY 281 TO "GERLANE RD", 1W. TO "ROUNDUP", 2 1/2S.
(WINDING RD.) W. INTO AT FARMSTEAD 1 1/2 MILES

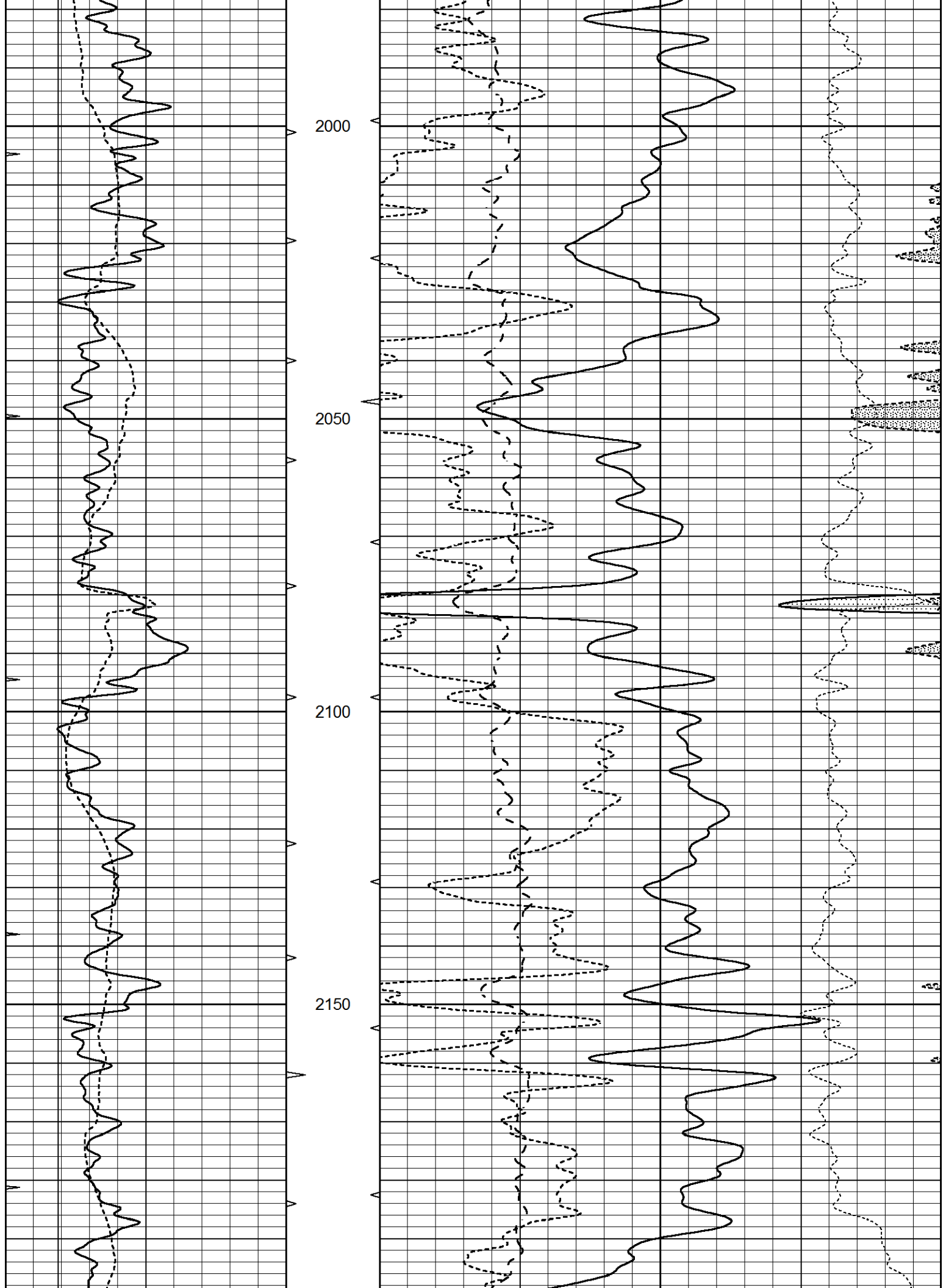


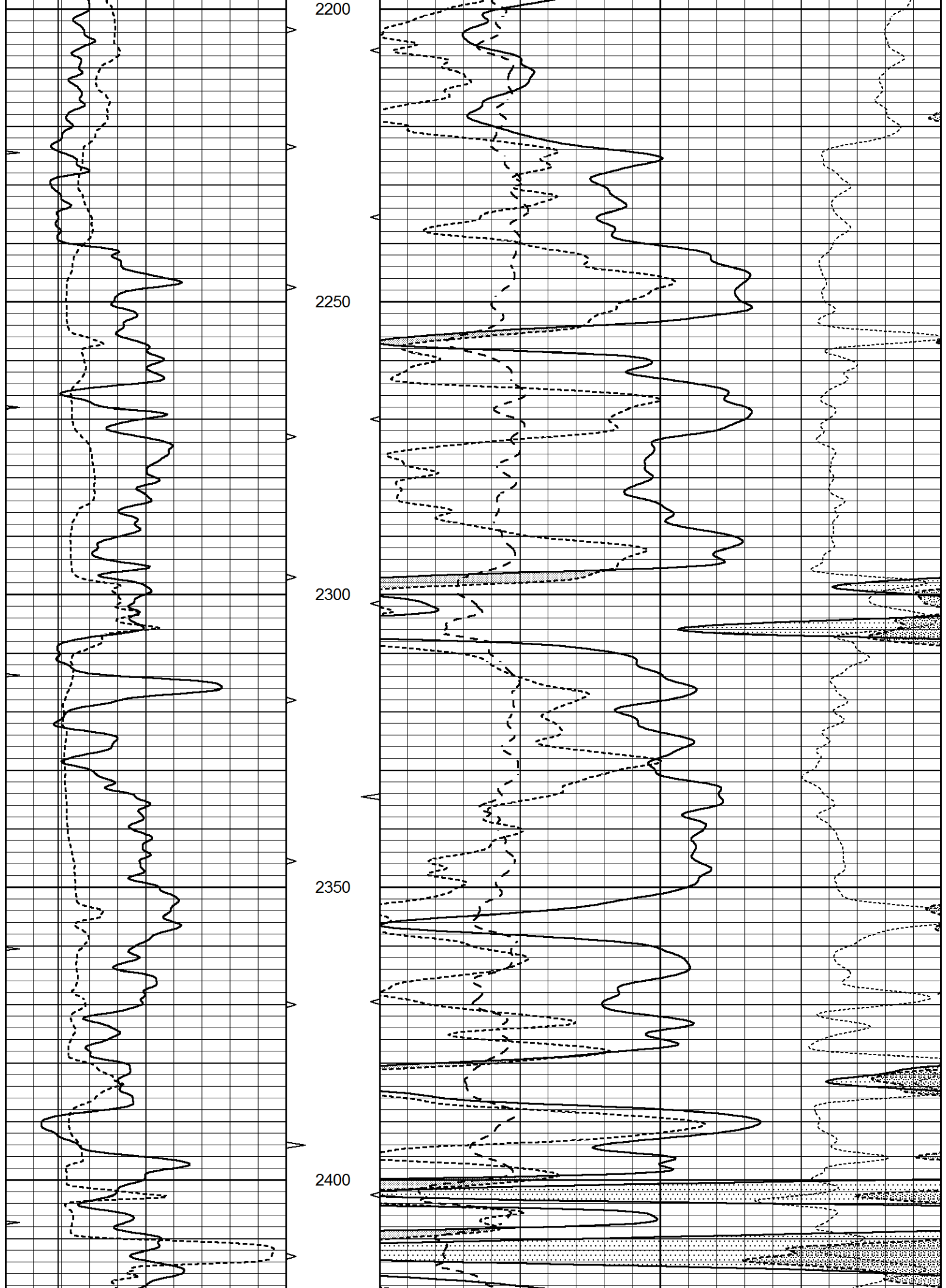
MAIN SECTION

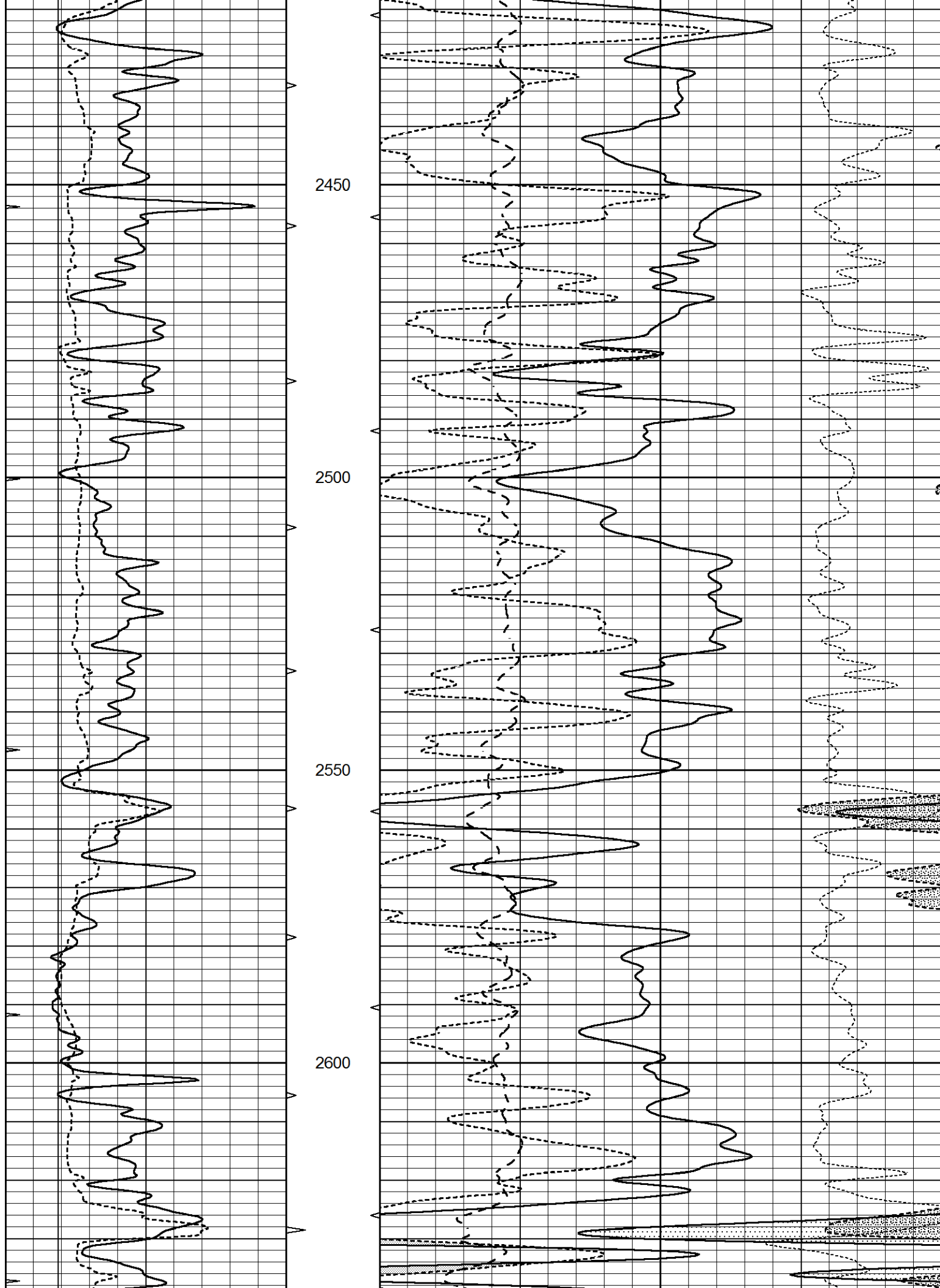
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Dataset Pathname	pass3.3M
Presentation Format	ldt_neu
Dataset Creation	Sat Jun 19 11:09:07 2021
Charted by	Depth in Feet scaled 1:240

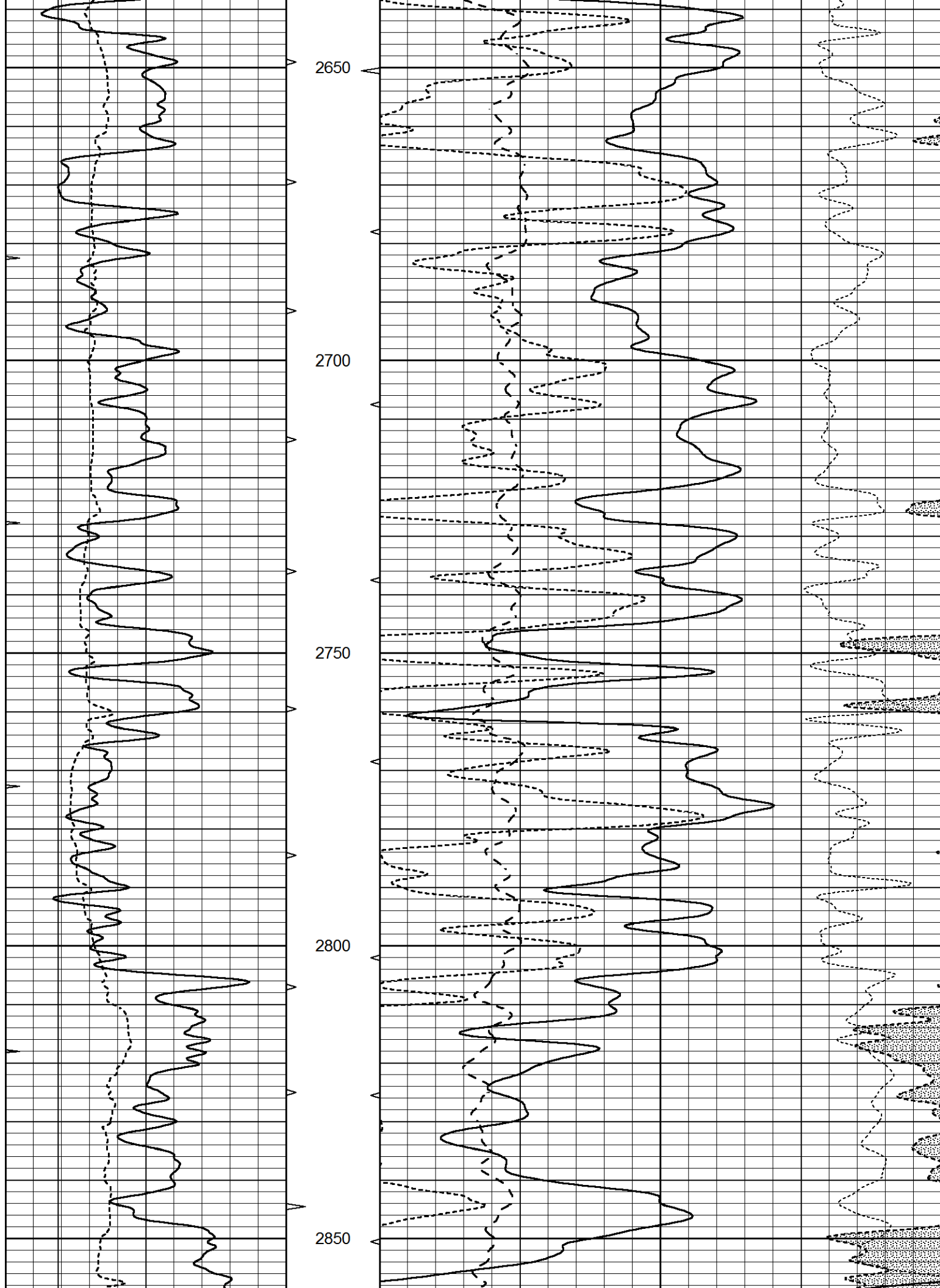
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6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25

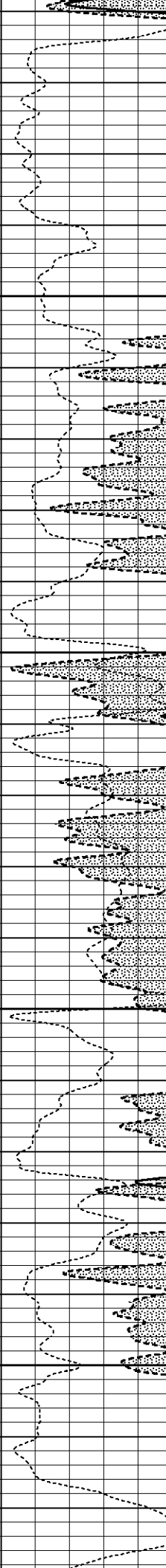
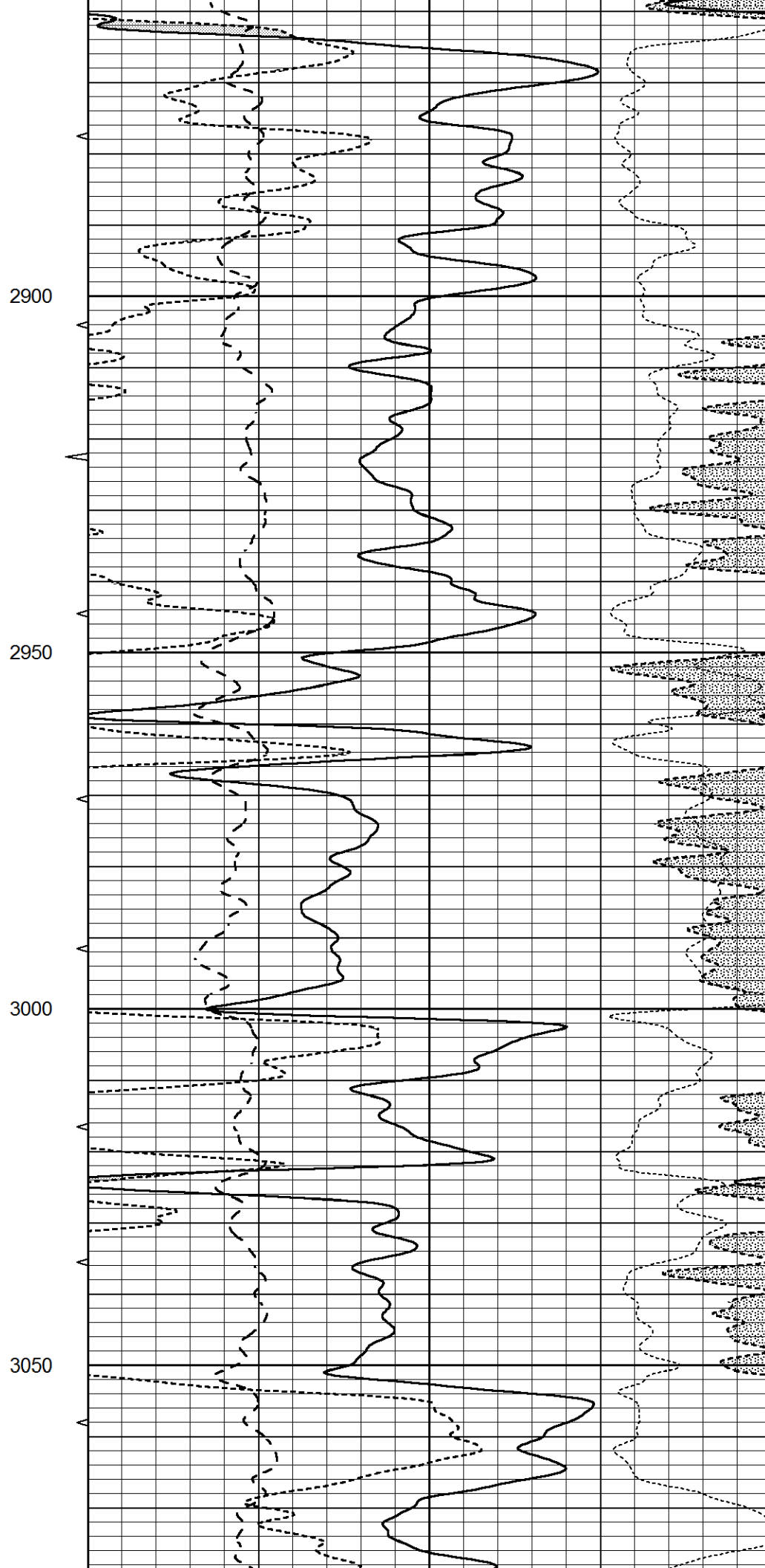
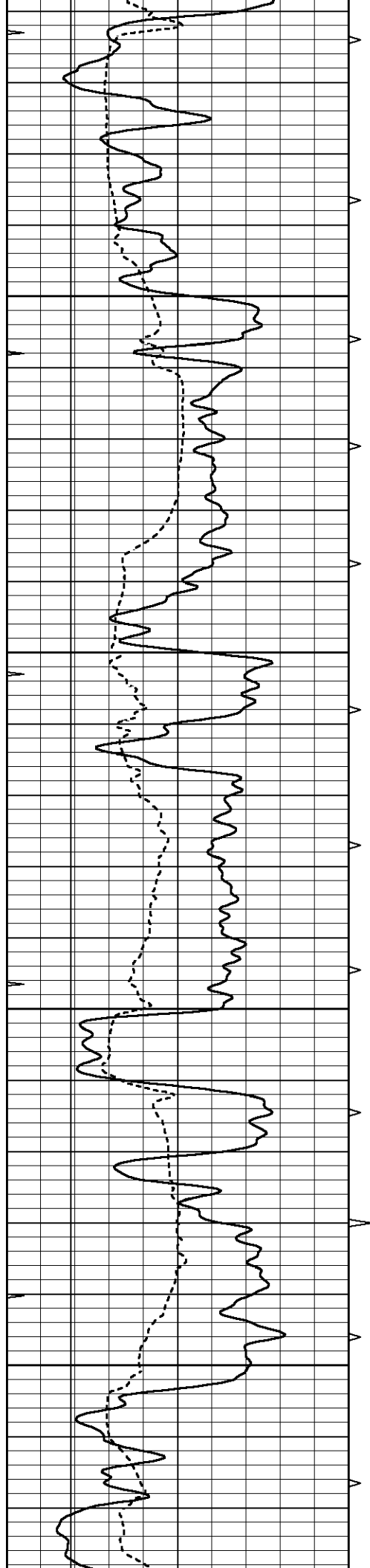


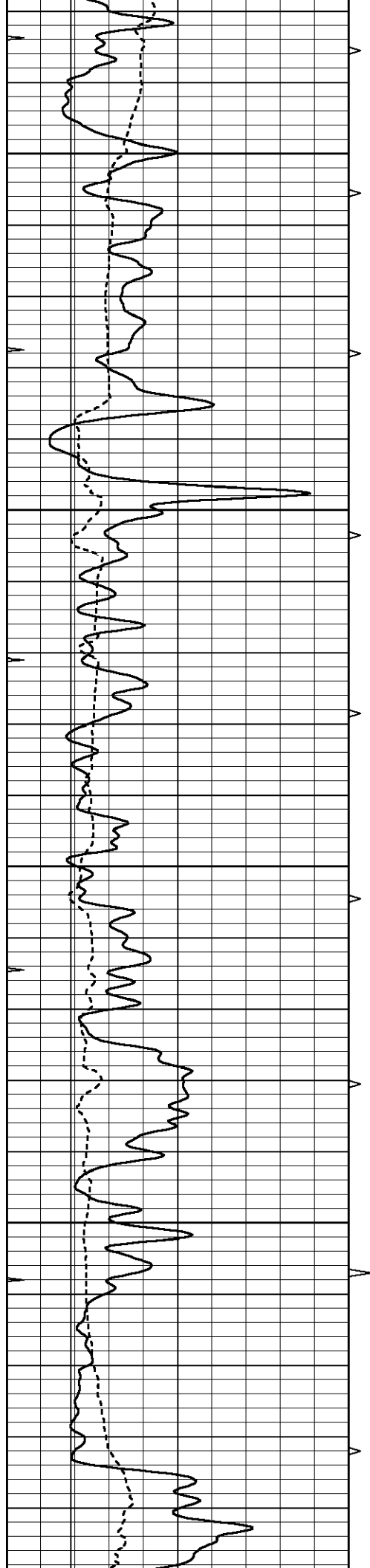










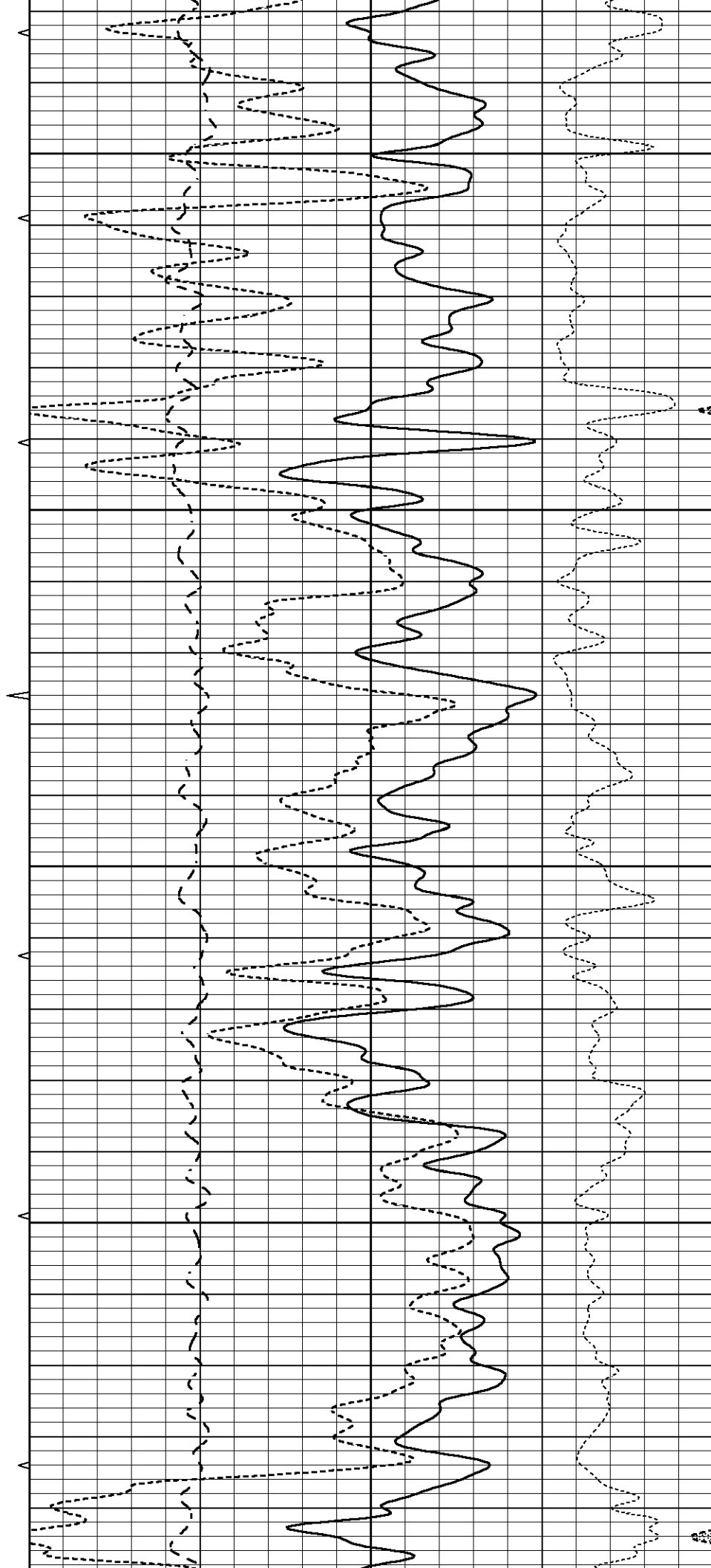


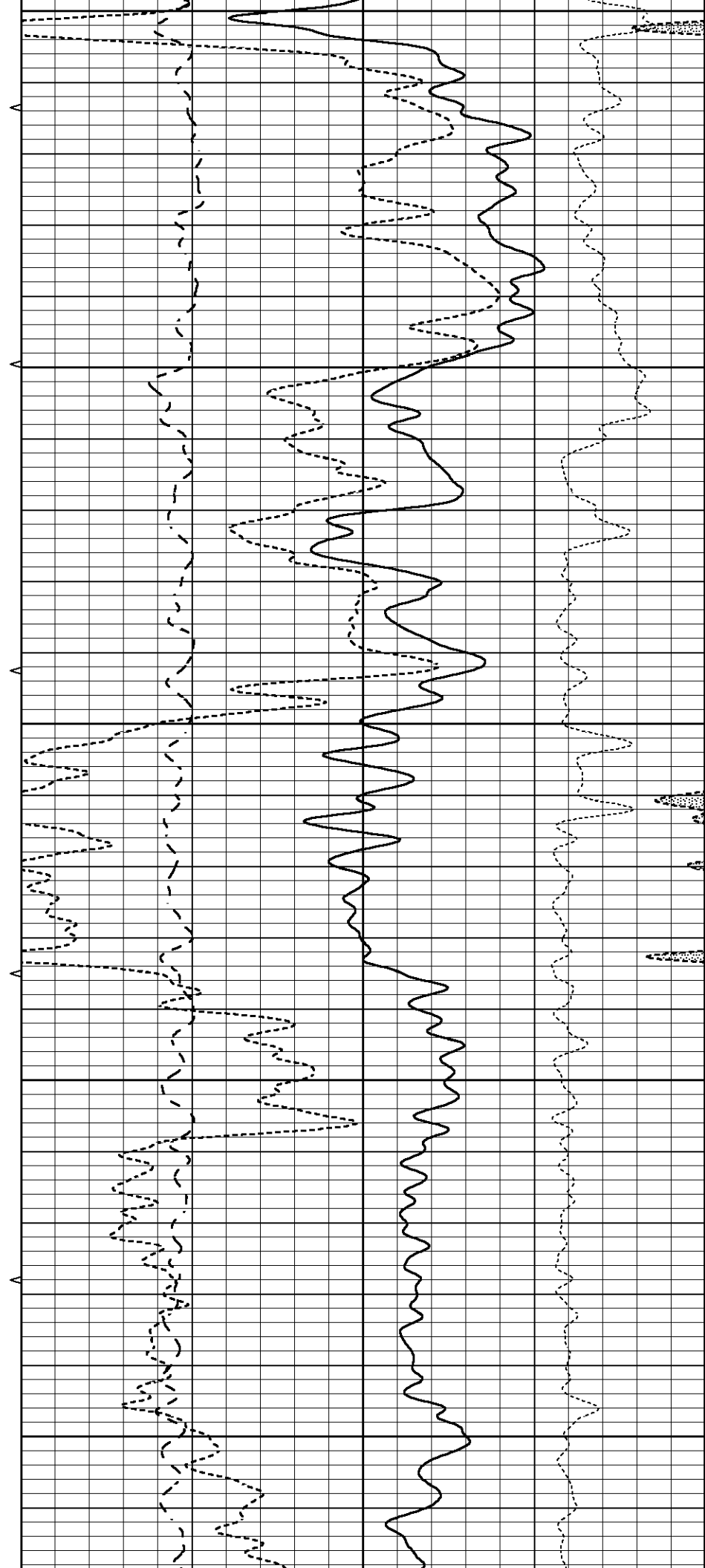
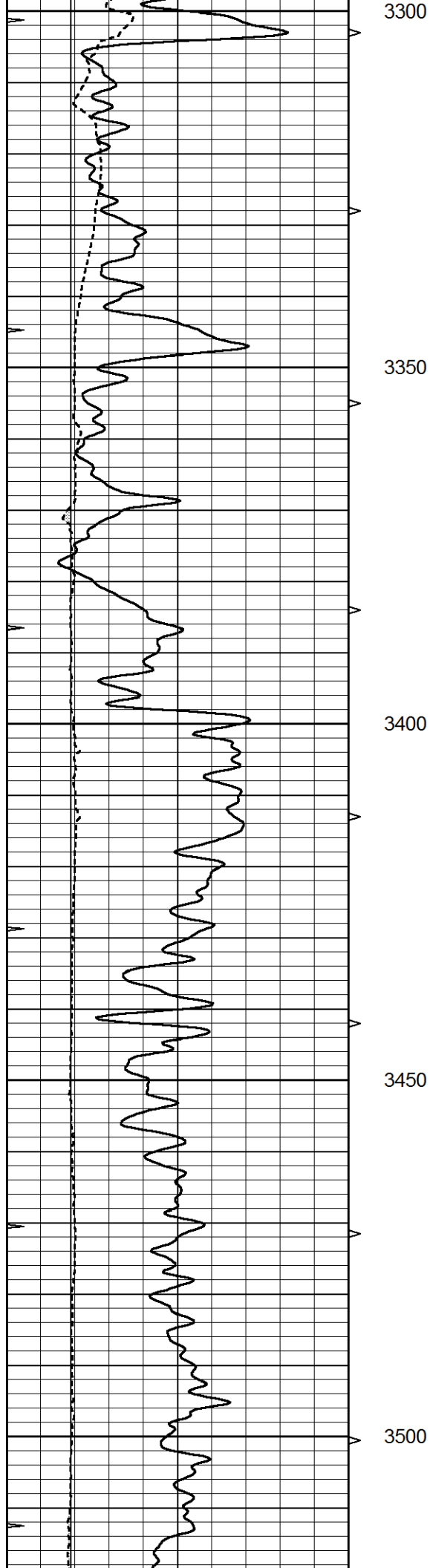
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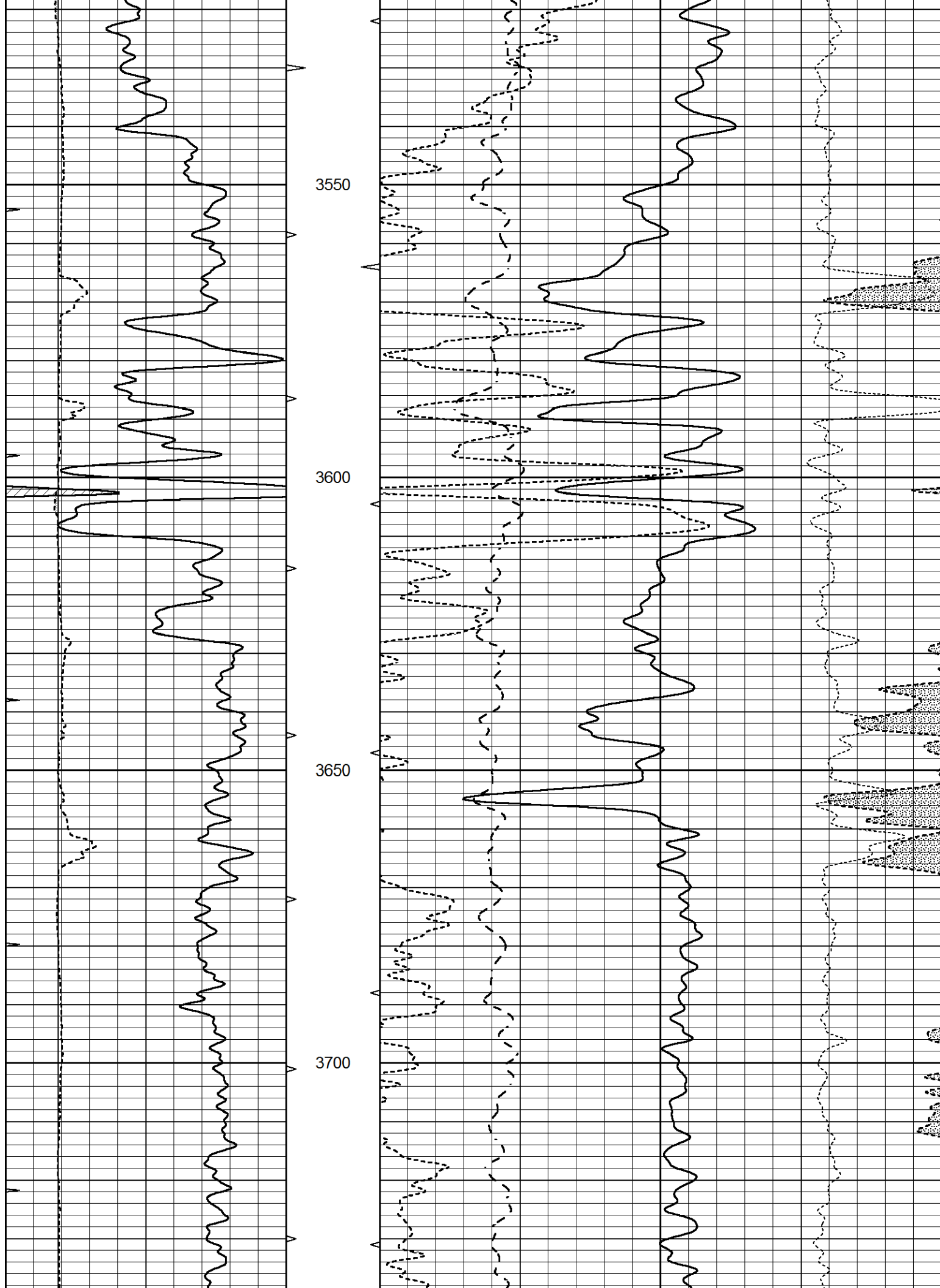
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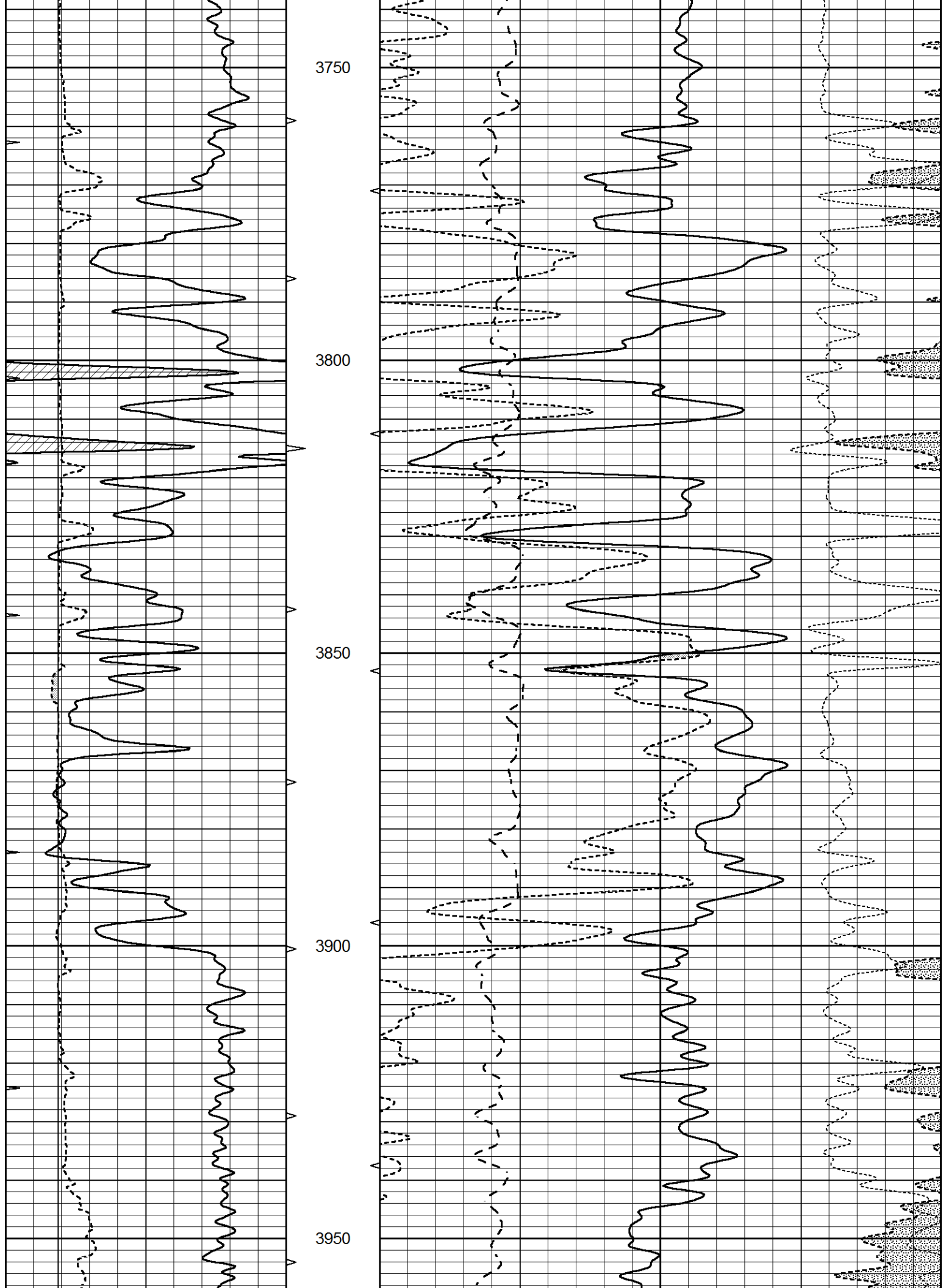
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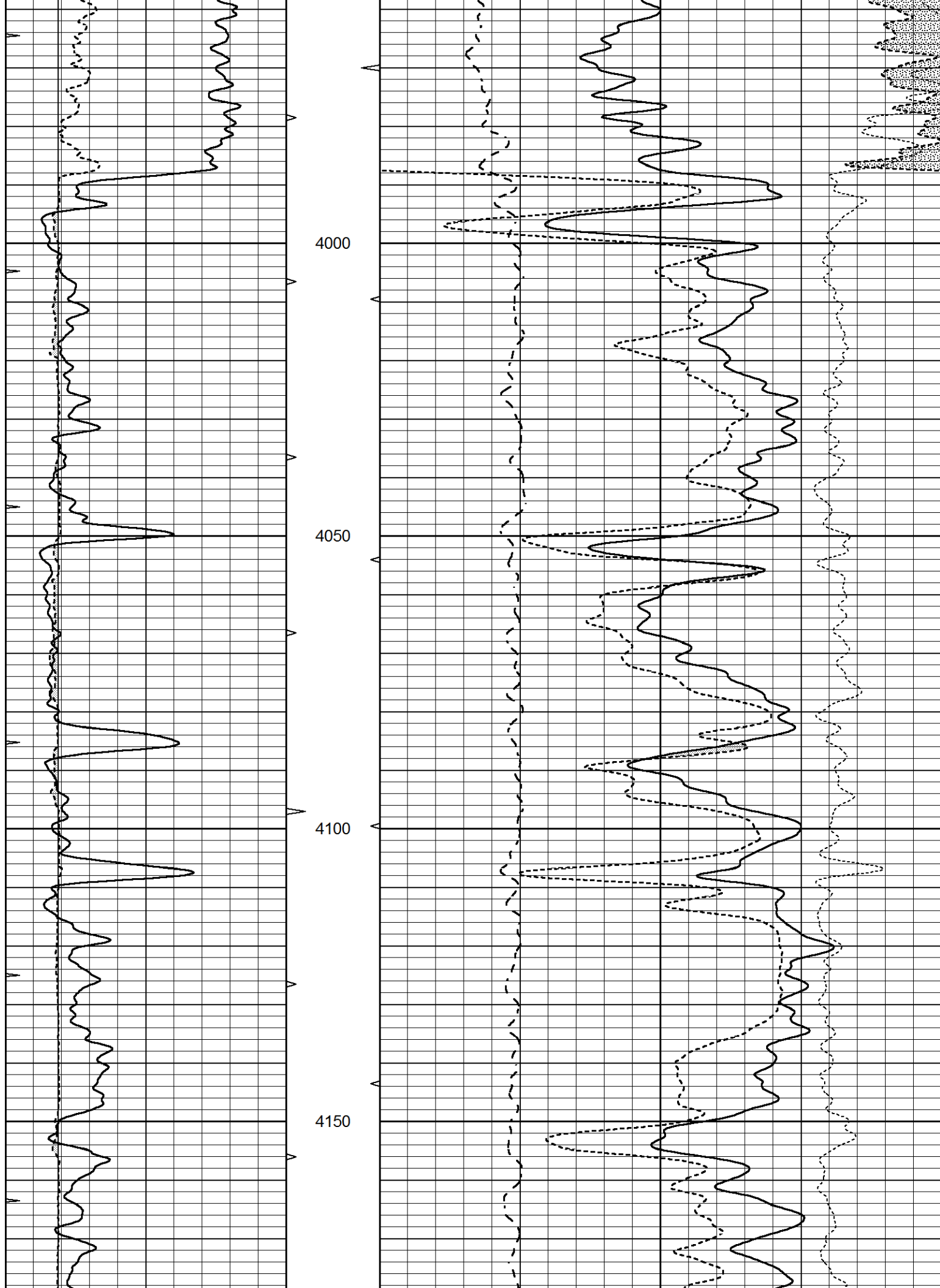
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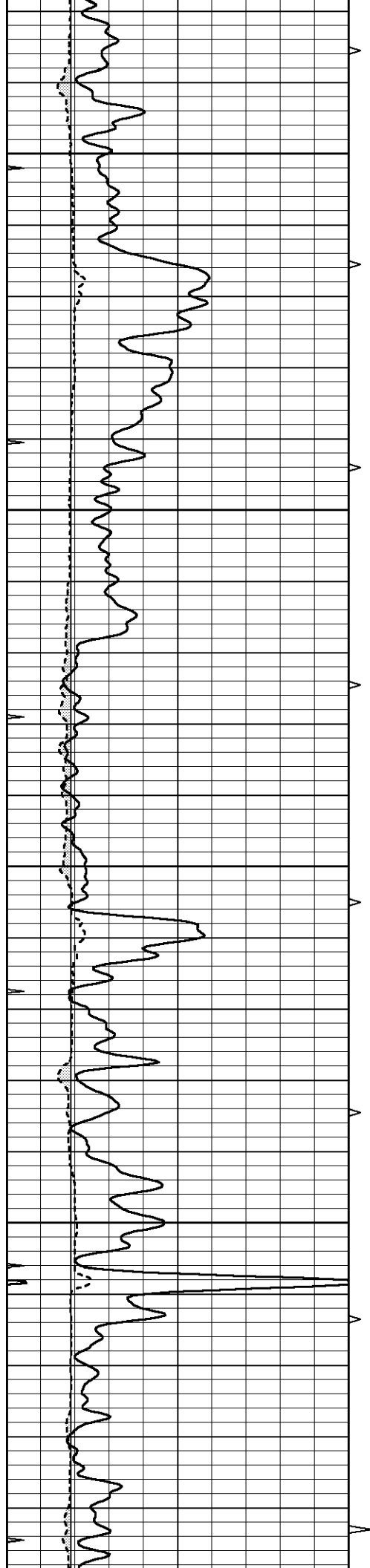










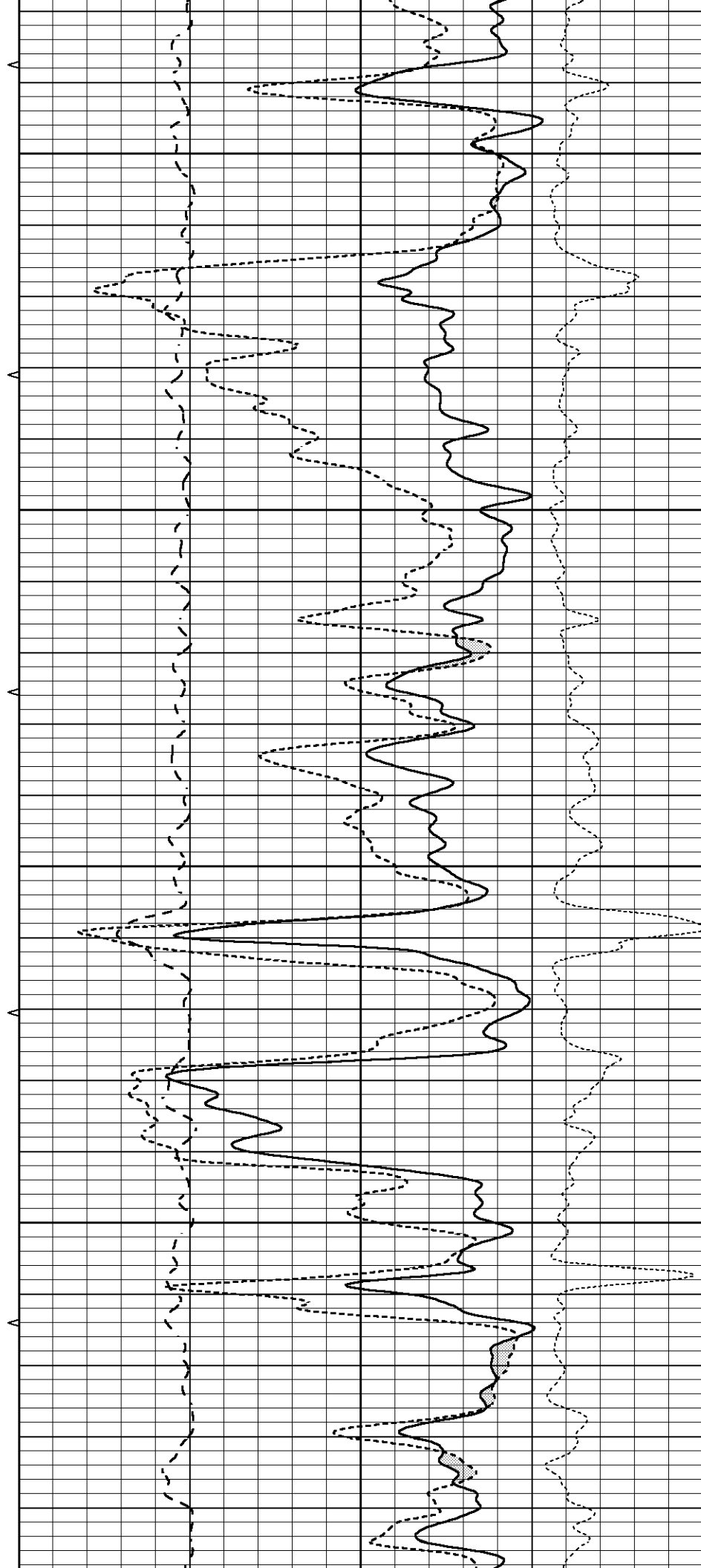


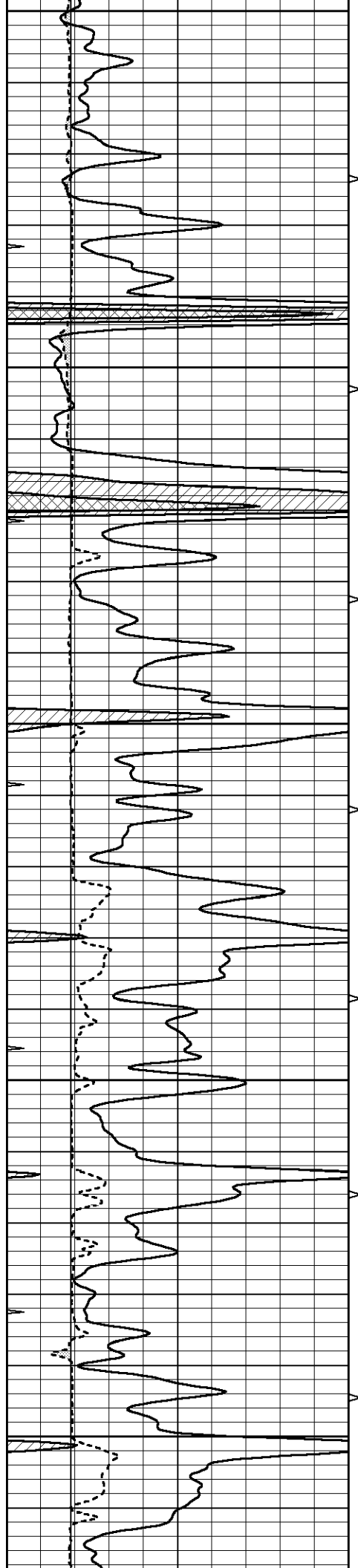
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4350





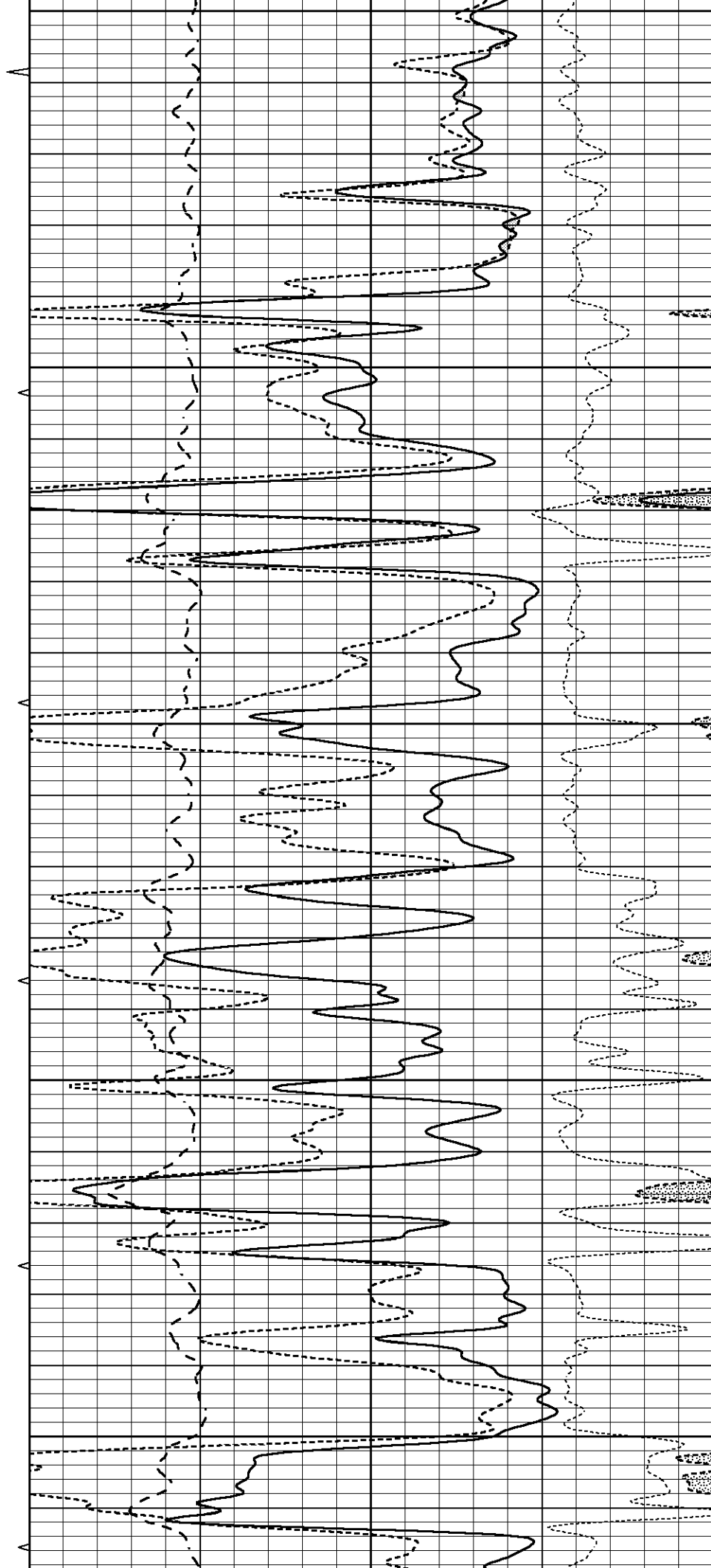
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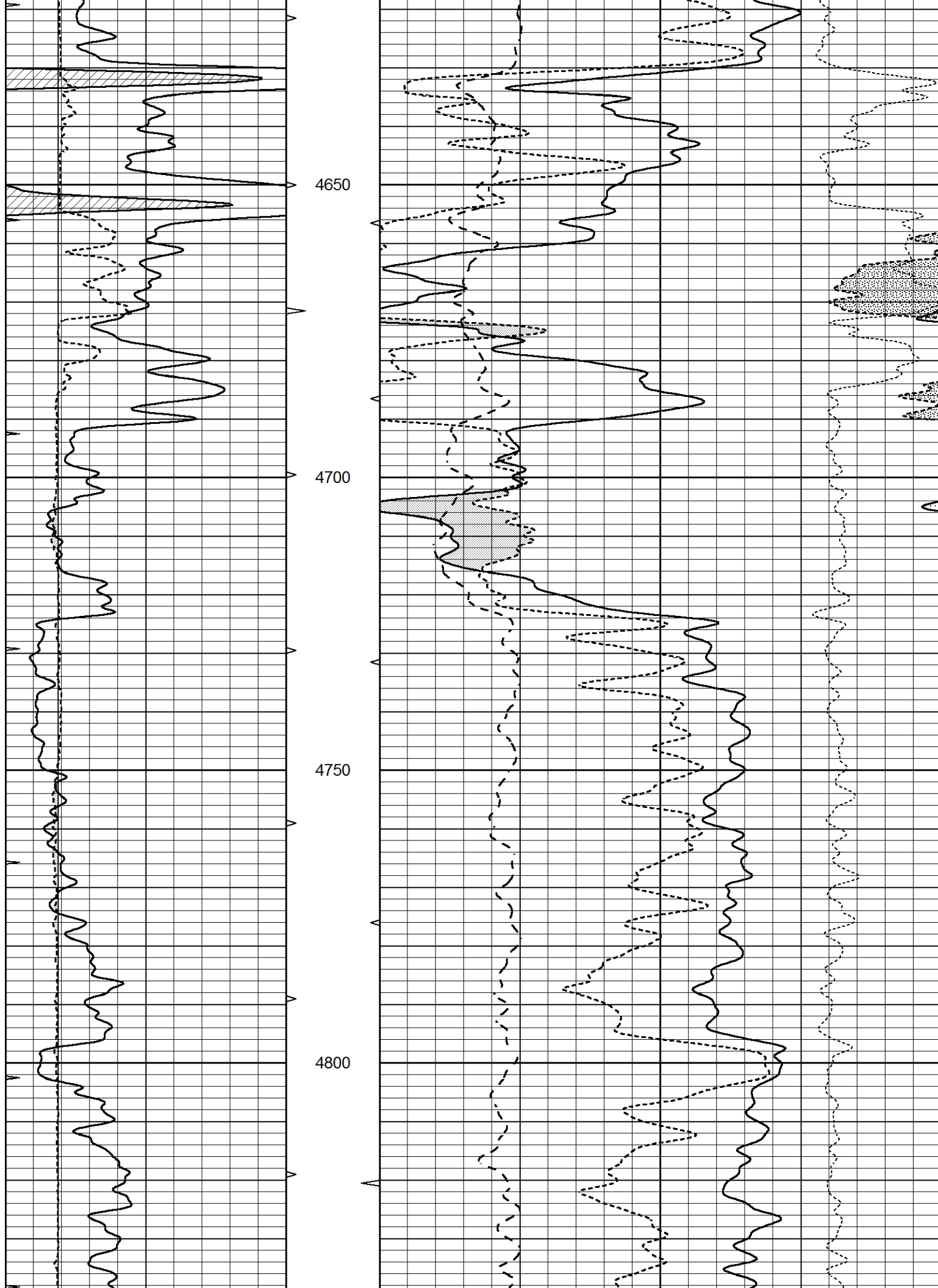
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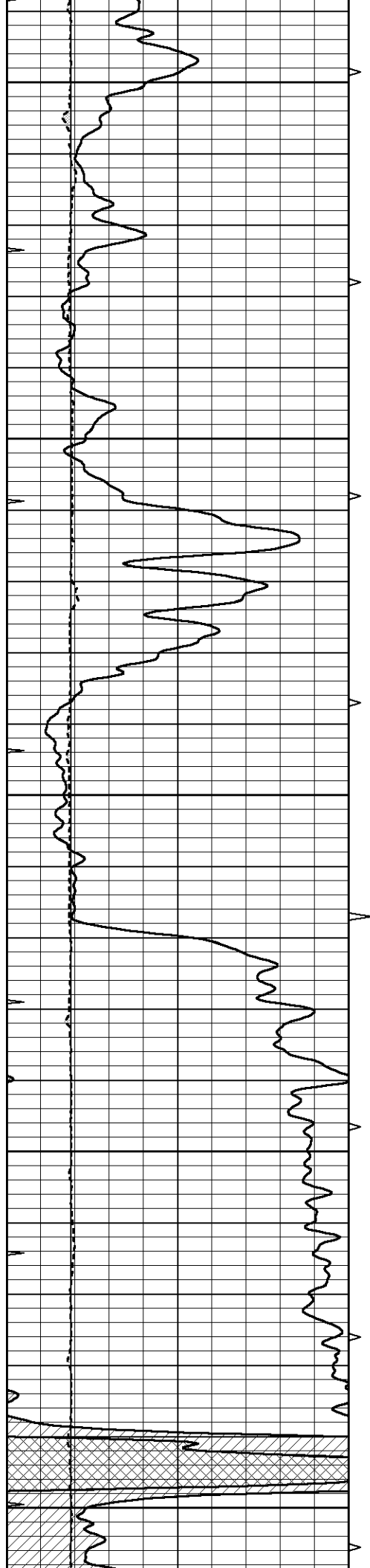
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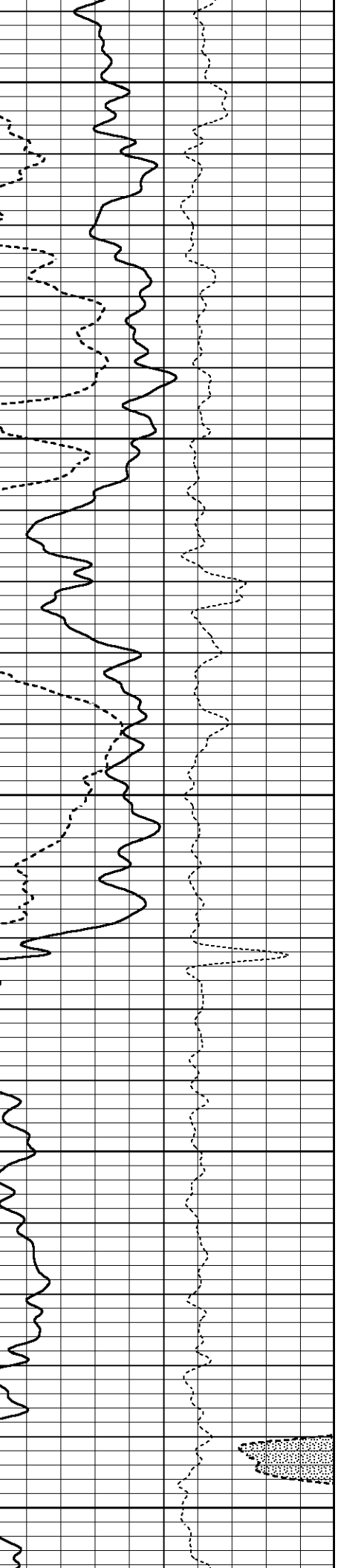
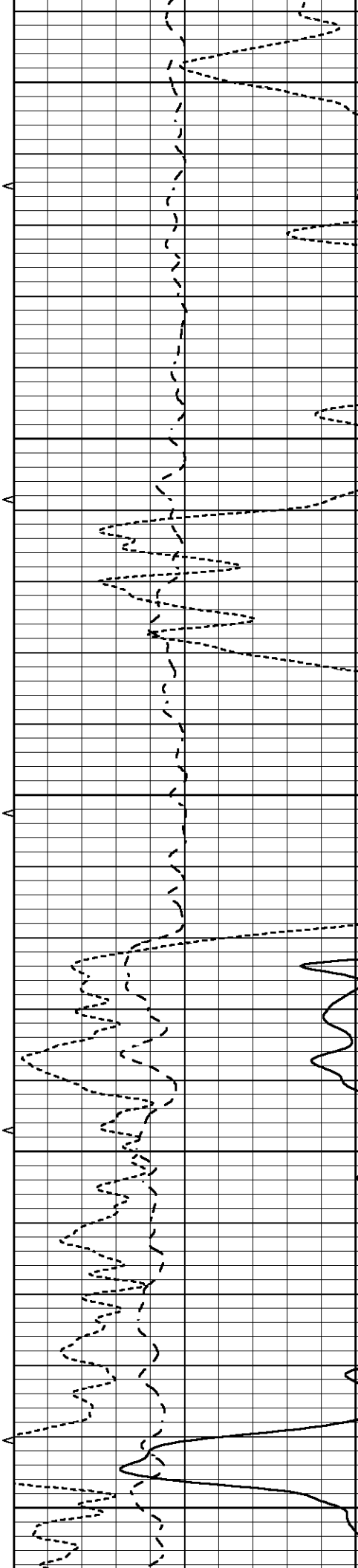
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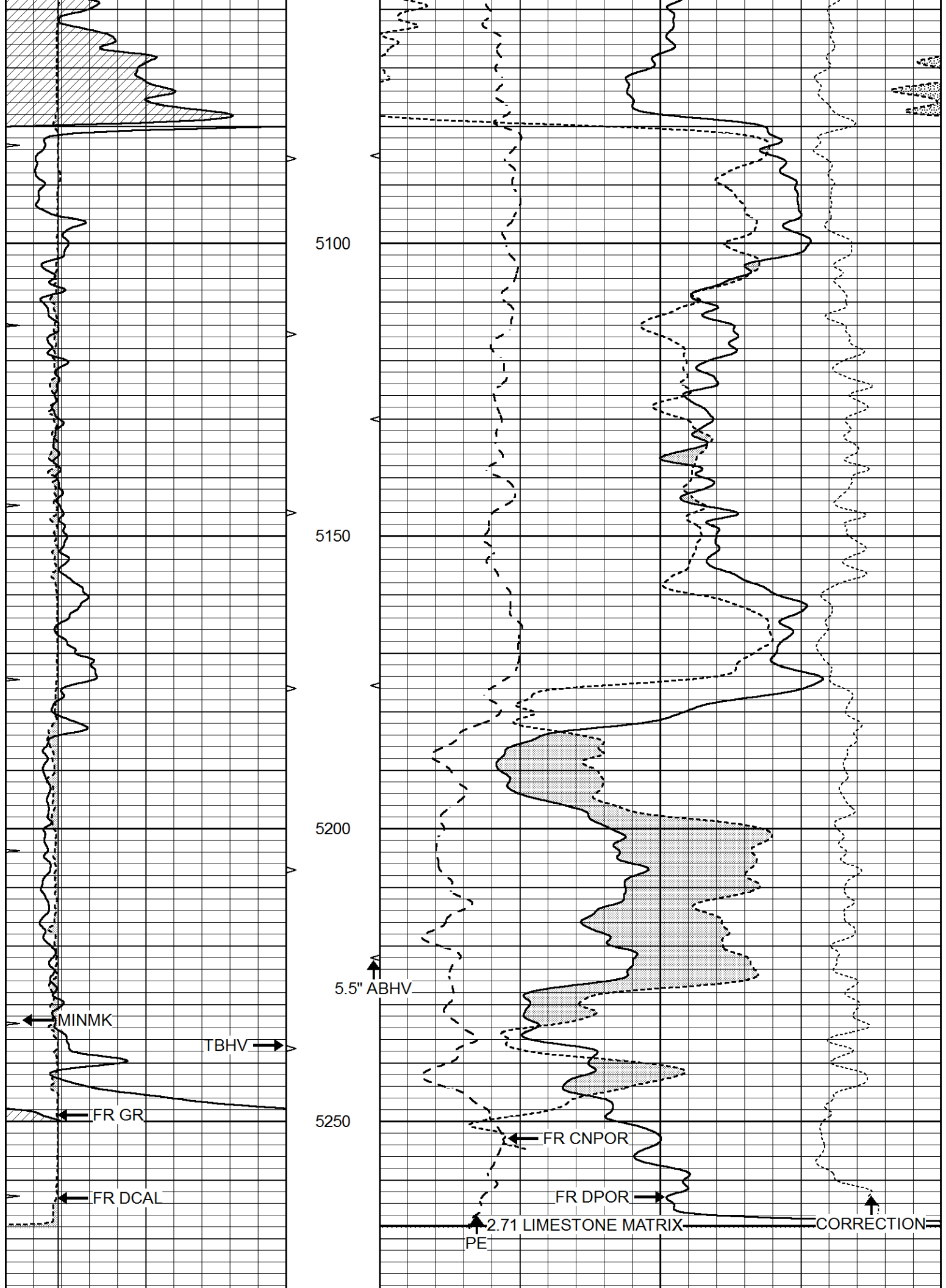
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5050





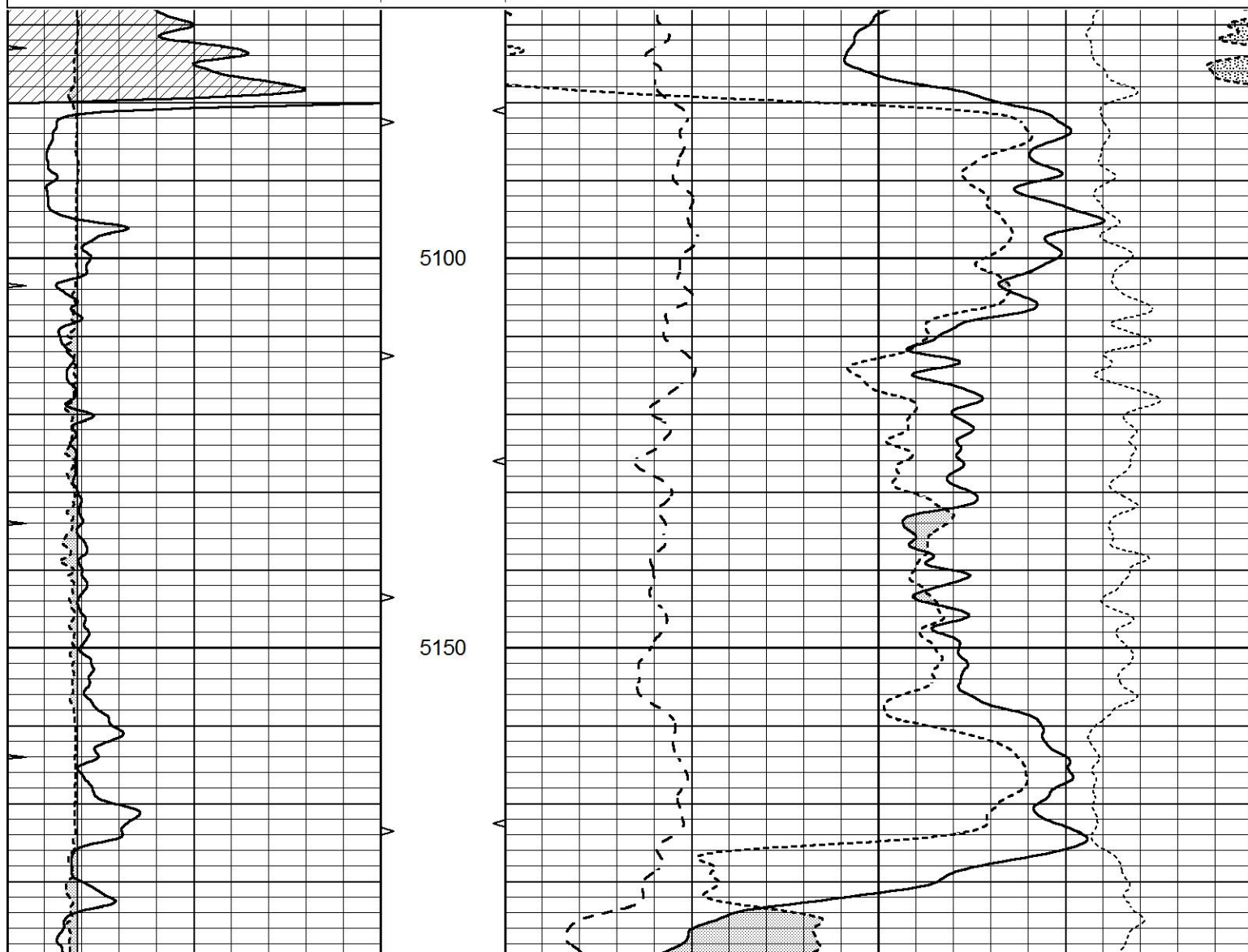
			LTD 5287					
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10					

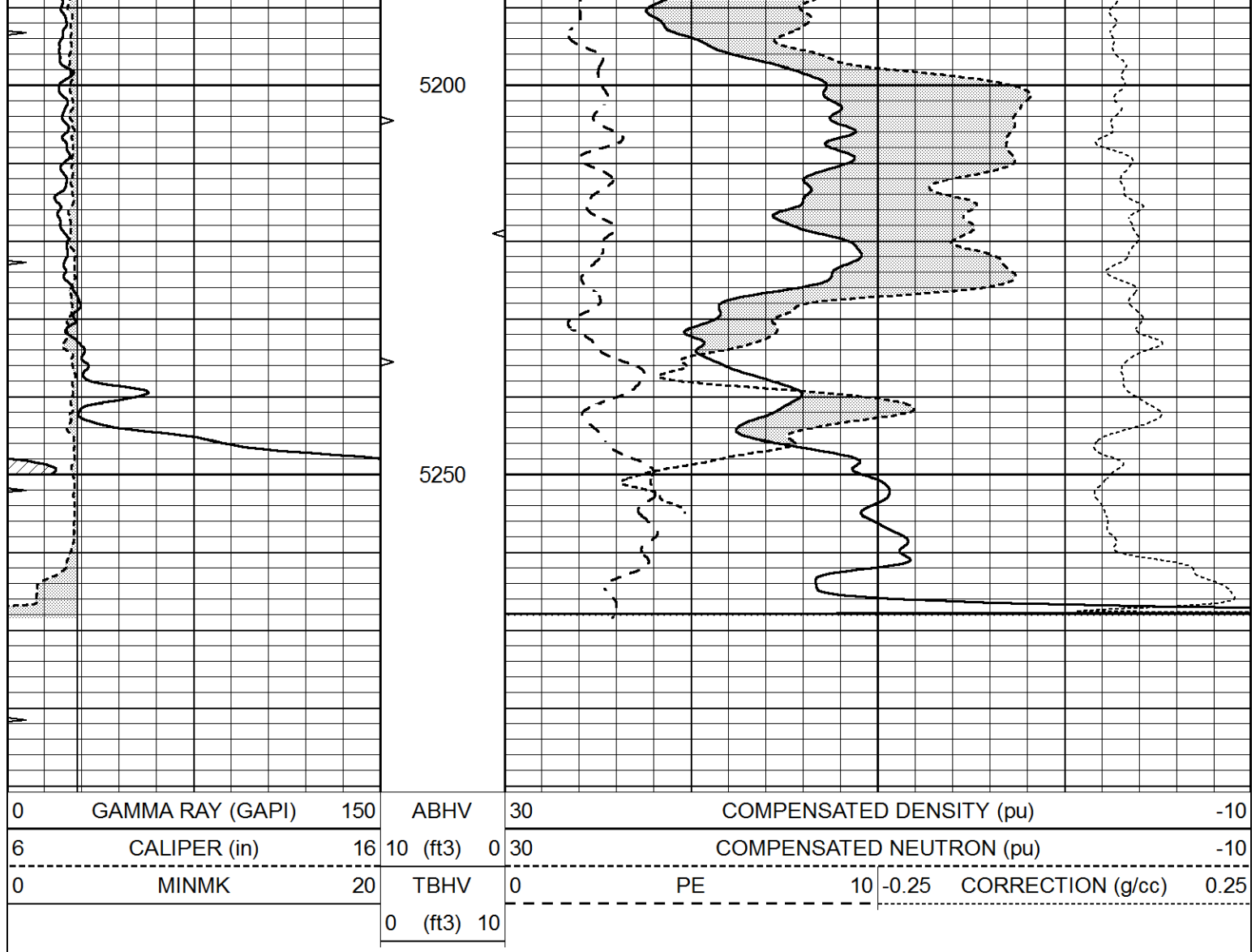


REPEAT SECTION

Database File 5577pe.db
 Dataset Pathname pass2.1R
 Presentation Format ldt_neu
 Dataset Creation Sat Jun 19 09:21:02 2021
 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	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 5577pe.db
Dataset Pathname pass3.3M
Dataset Creation Sat Jun 19 11:09:07 2021

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
Surface Cal Performed: Sat Jun 19 09:01:00 2021
Downhole Cal Performed: Wed Mar 11 11:31:19 2020
After Survey Verification Performed: Wed Mar 11 11:31:22 2020

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	720.000	-15.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	720.000	-26.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

Readings References Results

	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		
Litho Density Calibration Report								
Serial: 003				Model: PRB				
Master Calibration								
Performed Fri Mar 05 10:51:07 2021								
	Background	Magnesium		Aluminum		Aluminum+Fe		
Window 1	1570.6	10682.1		3457.0		3096.9		cps
Window 2	1451.7	9432.7		3101.4		2816.5		cps
Window 3	1334.0	7160.6		2532.0		2369.3		cps
Window 4	370.4	373.1		366.4		370.9		cps
Long Space	0.0	7981.0		1649.7		1364.8		cps
Short Space	2.8	3522.0		2211.0		1823.6		cps
Rho		1.7100		2.5900		0.0000		g/cc
Pe		2.0000		2.7500		5.7900		
Rib Angle	: 43.5	Rib Slope	: 0.951	Density/Spine Ratio			: 0.535	
Spine Angle	: 73.5	Spine Slope	: 3.386	Spine Intercept			: -18.7	
Before Survey Verification								
Performed Wed Dec 31 18:00:00 1969								
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		
After Survey Verification								
Performed Wed Dec 31 18:00:00 1969								
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		

Compensated Neutron Calibration Report			
Serial Number:		070808PMC	
Tool Model:		NABORS	
PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	070558		
Tool Model:	OPEN_GR		
Performed:	Fri Apr 16 13:57:16 2021		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	