



SUPERIOR
Hays,
Kansas

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company RITCHIE EXPLORATION, INC.
Well BROWN FAMILY #1
Field WILDCAT
County FORD
State KANSAS

Company RITCHIE EXPLORATION, INC.
Well BROWN FAMILY #1
Field WILDCAT
County FORD State KANSAS

Location: 1130' FSL & 1745' FWL
API # : 15-057-20746-0000

SEC 35 TWP 27S RGE 22W

Permanent Datum GROUND LEVEL Elevation 2346

Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL
Elevation
K.B. 2357
D.F. 2355
G.L. 2346

Date	9/15/11
Run Number	ONE
Depth Driller	5140
Depth Logger	5140
Bottom Logged Interval	4116
Top Log Interval	2500
Casing Driller	8 5/8"@448'
Casing Logger	446
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/59
pH / Fluid Loss	9.5/10.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.560@52F
Rmt @ Meas. Temp	.420@52F
Rmc @ Meas. Temp	.672@52F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.231@126F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	11:45 A.M.
Maximum Recorded Temperature	126F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	MAX LOVELY

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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
FORD, KS.(HWY 400 & 7TH ST.) 2E. TO "RD. 128", 1/2N. TO DEAD END", W. ALONG TREE ROW,NORTH
THEN BACK EAST TO LOCATION

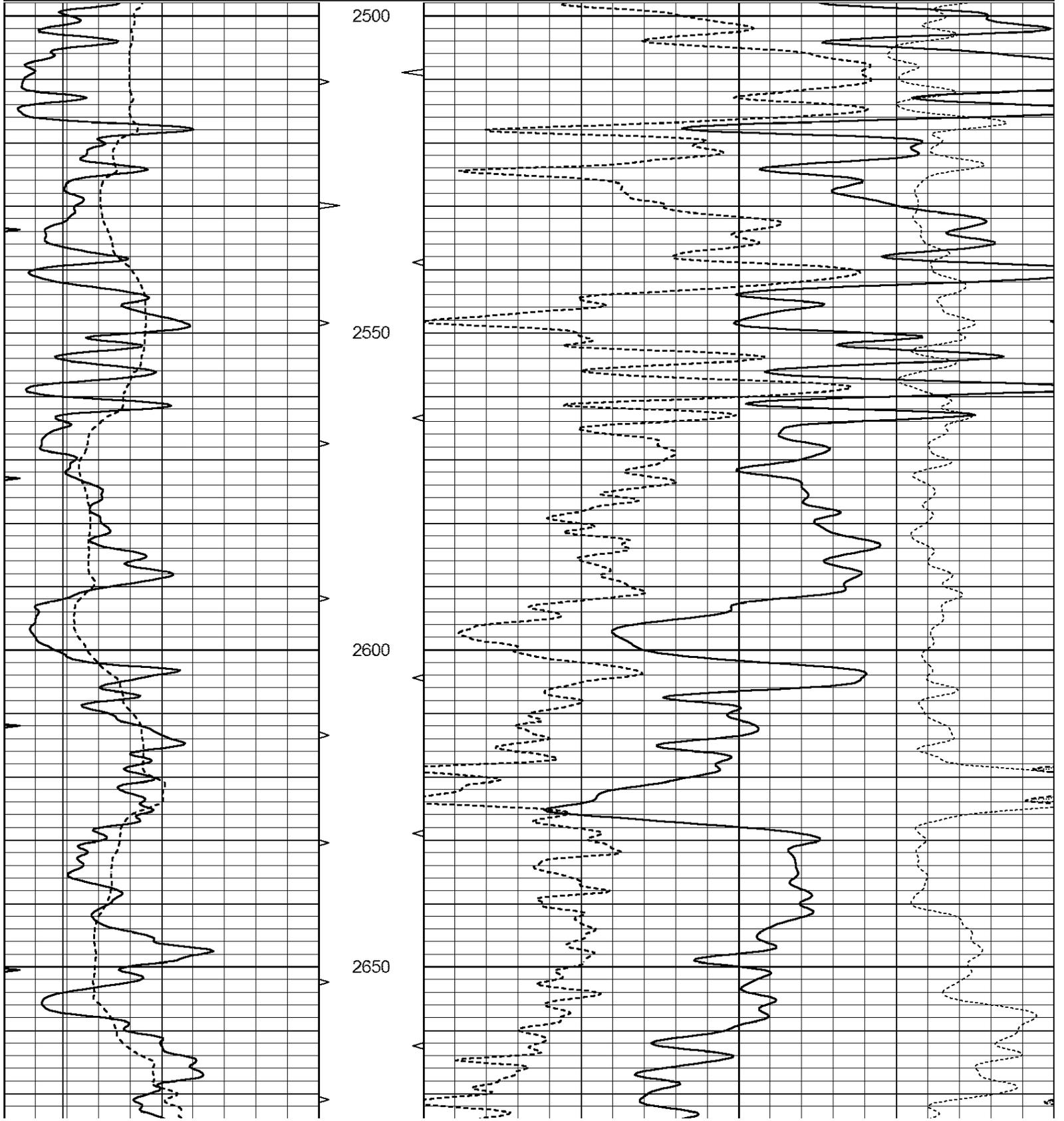


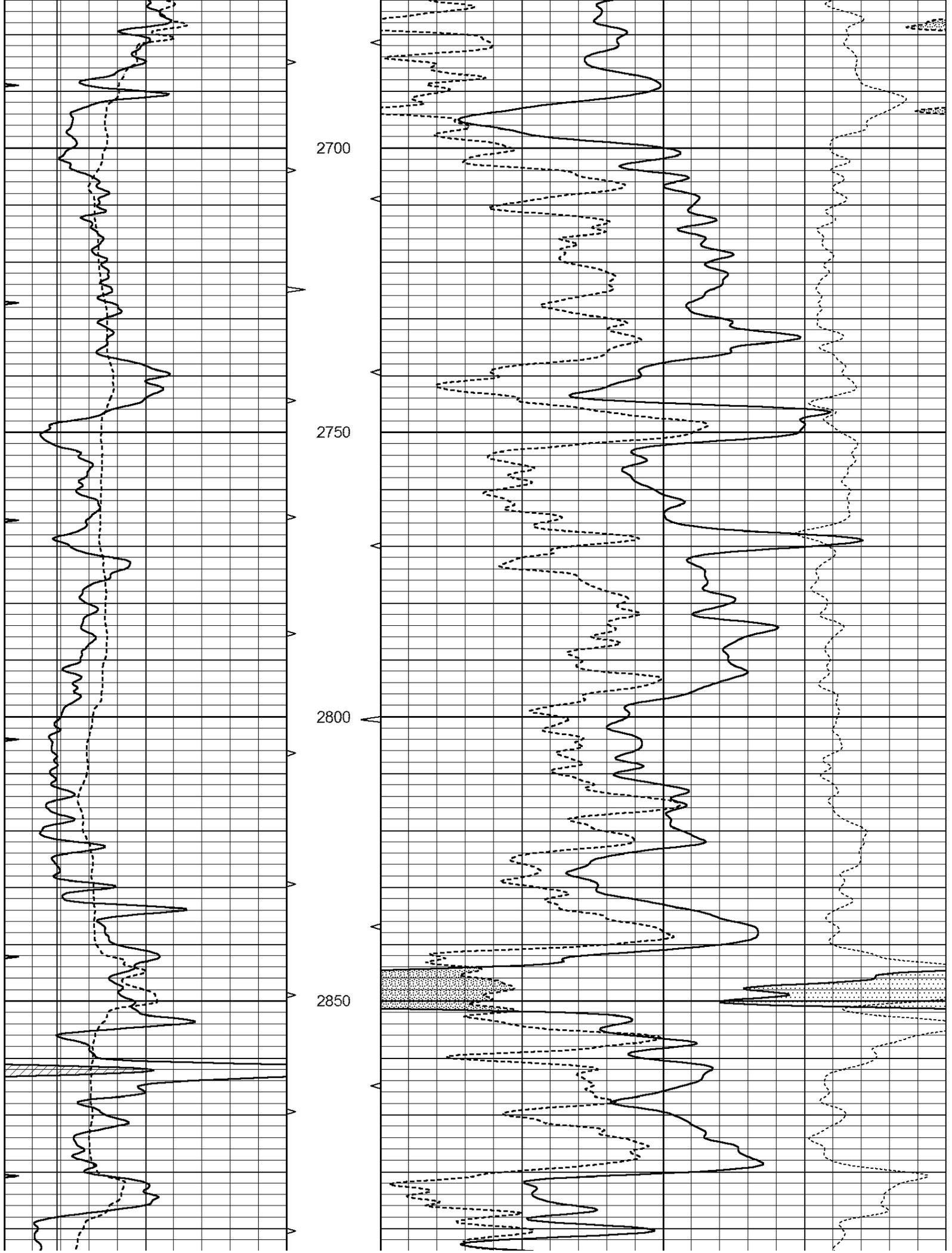
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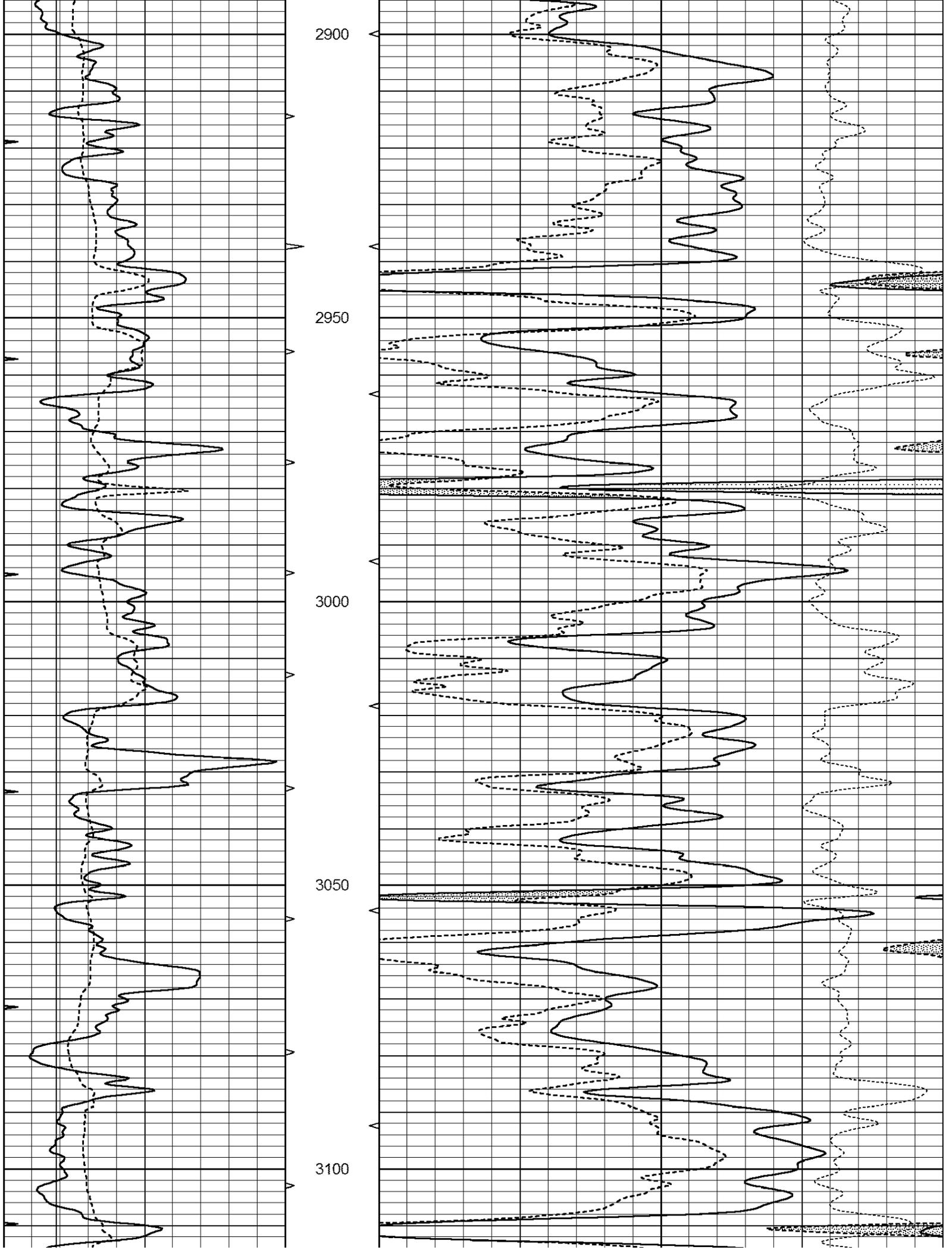
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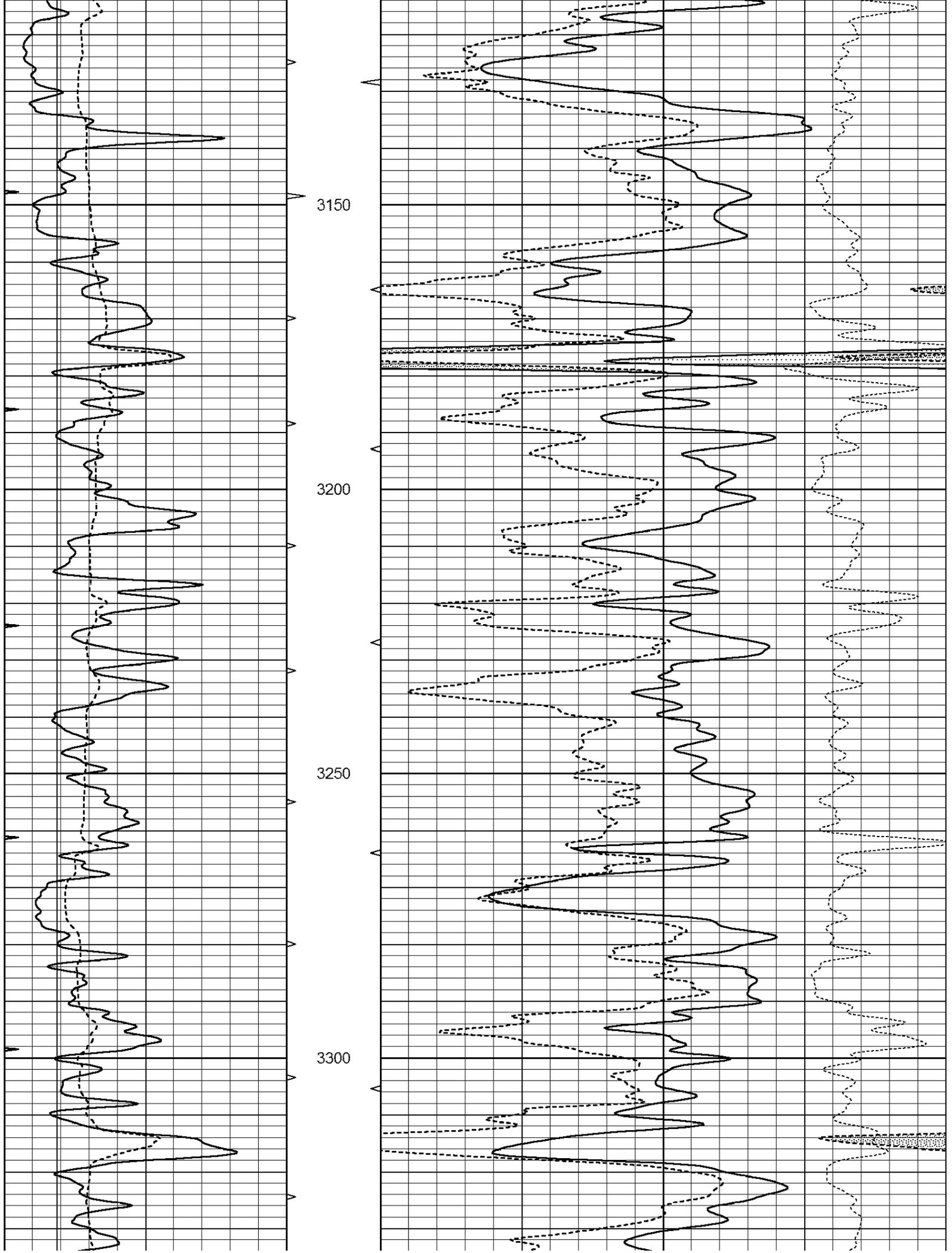
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 Presentation Format: den_neu
 Dataset Creation: Thu Sep 15 13:56:14 2011
 Charted by: Depth in Feet scaled 1:240

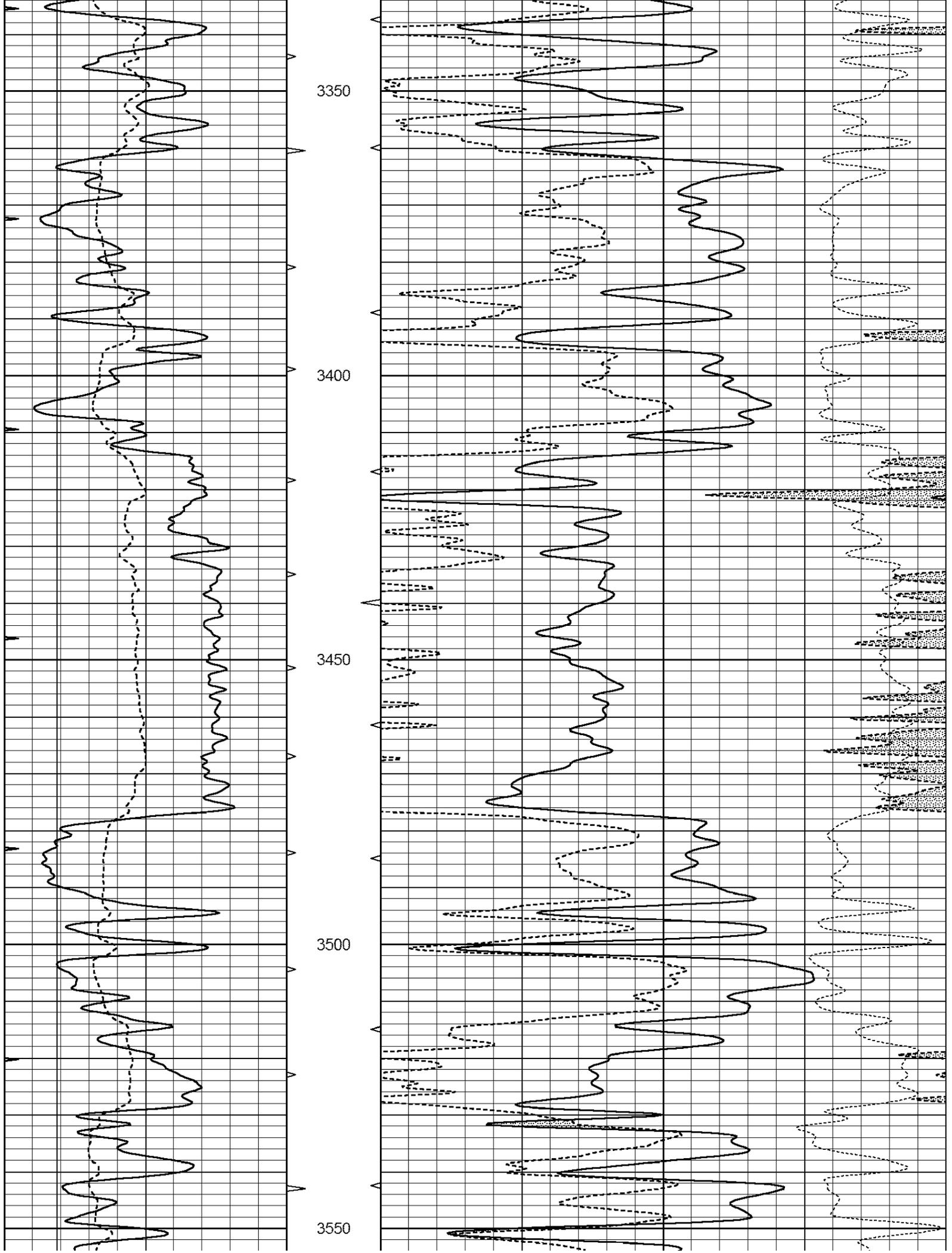
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

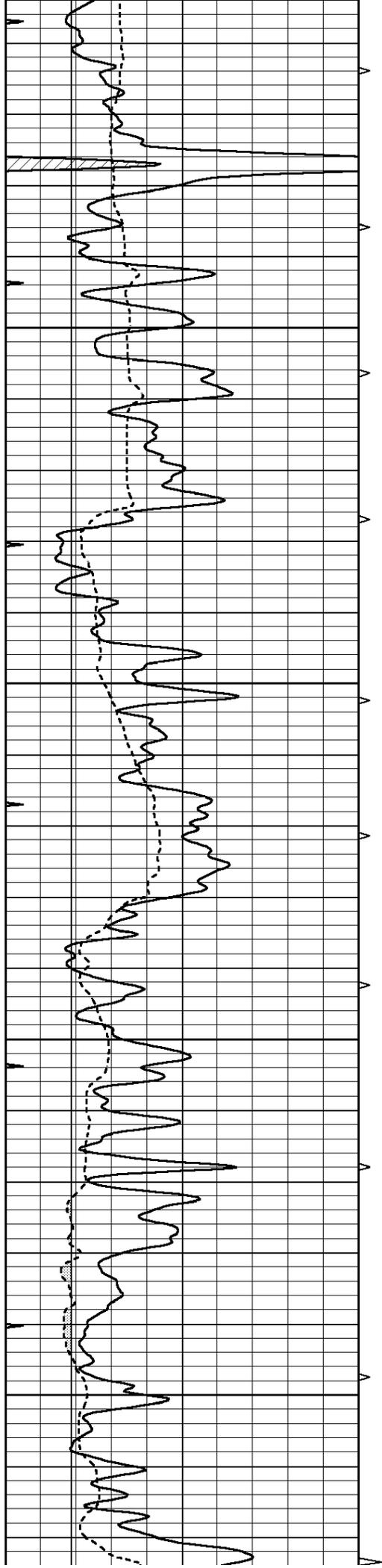










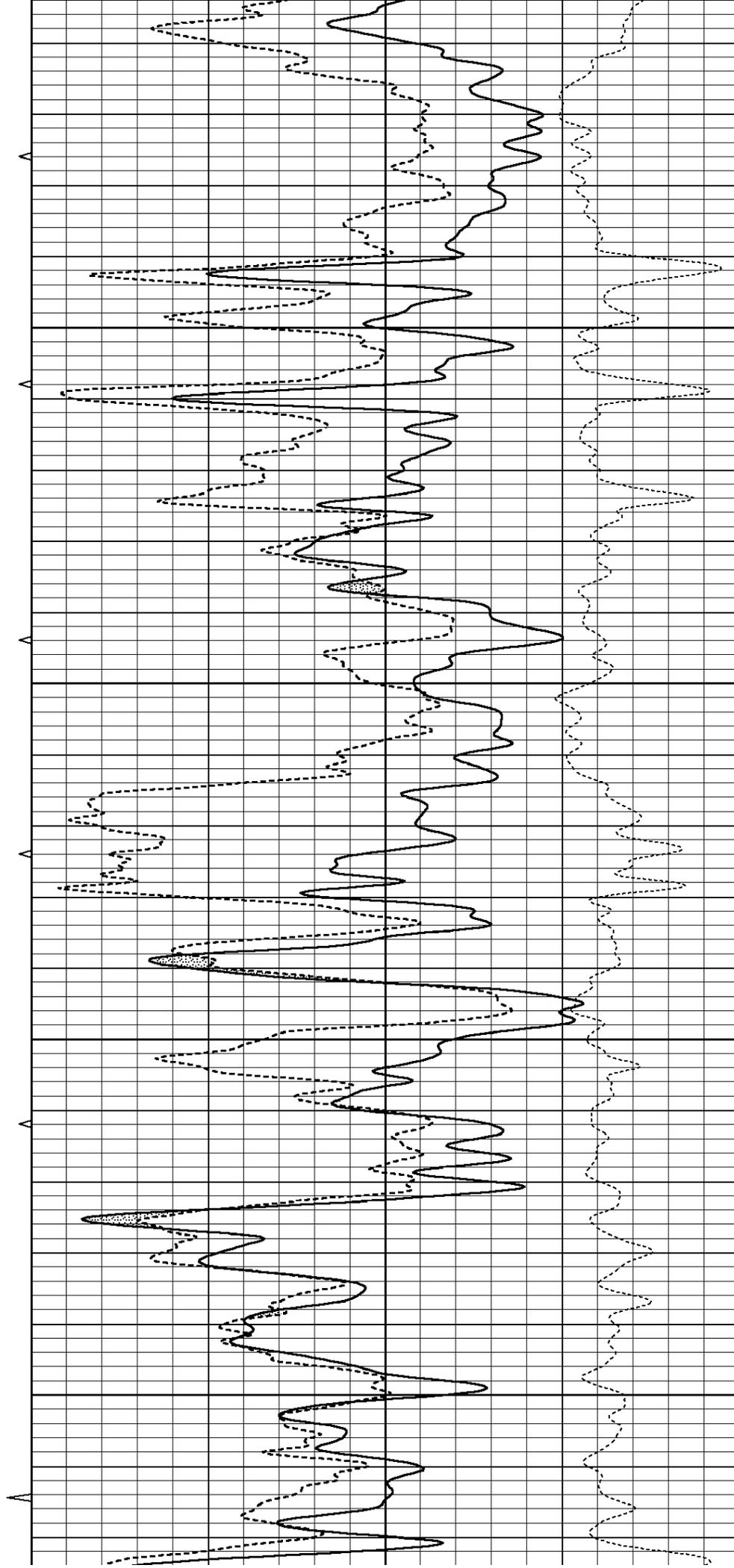


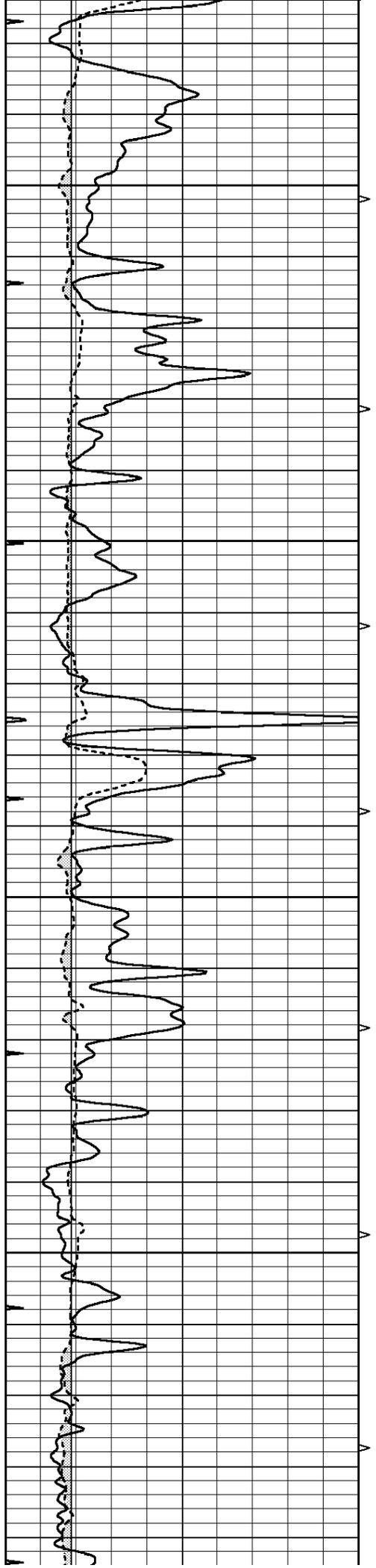
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3650

3700

3750



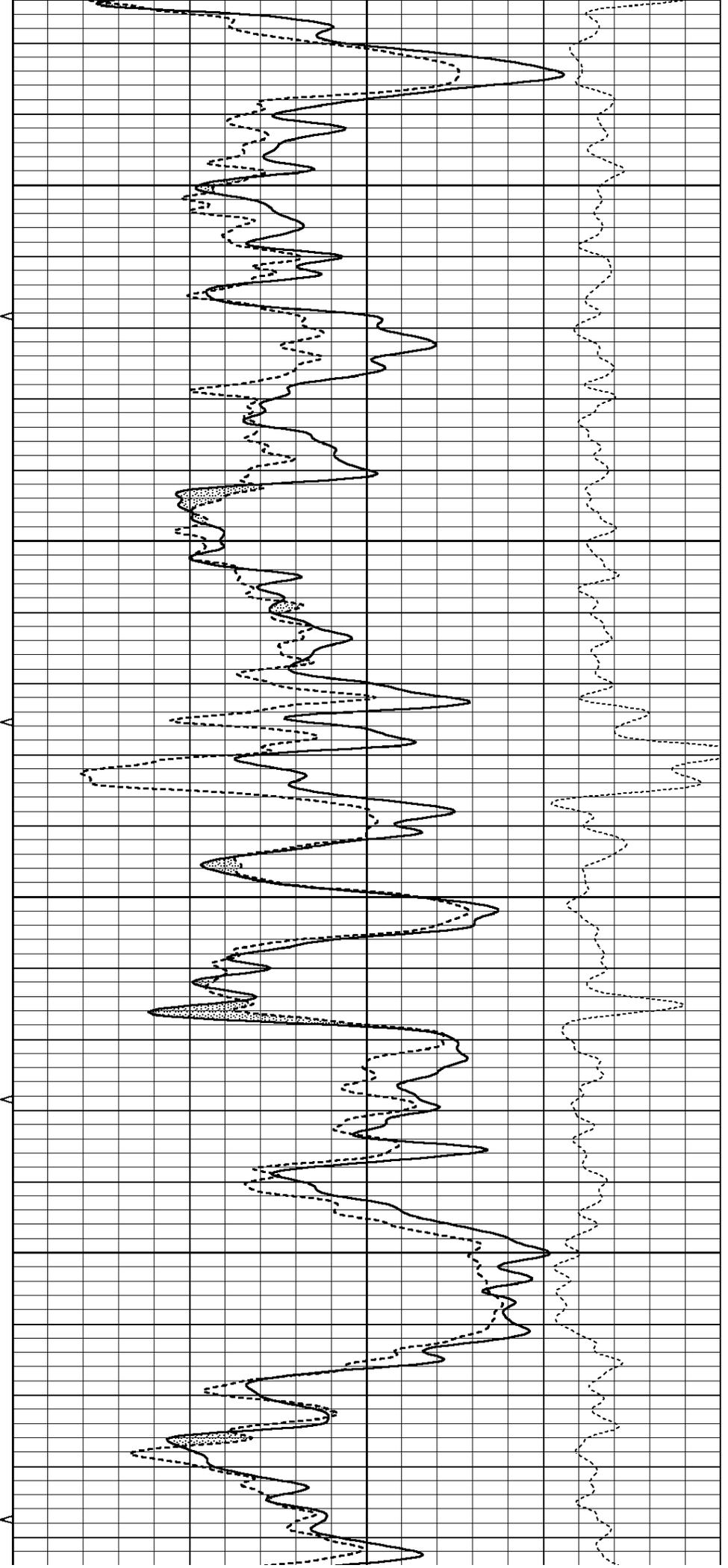


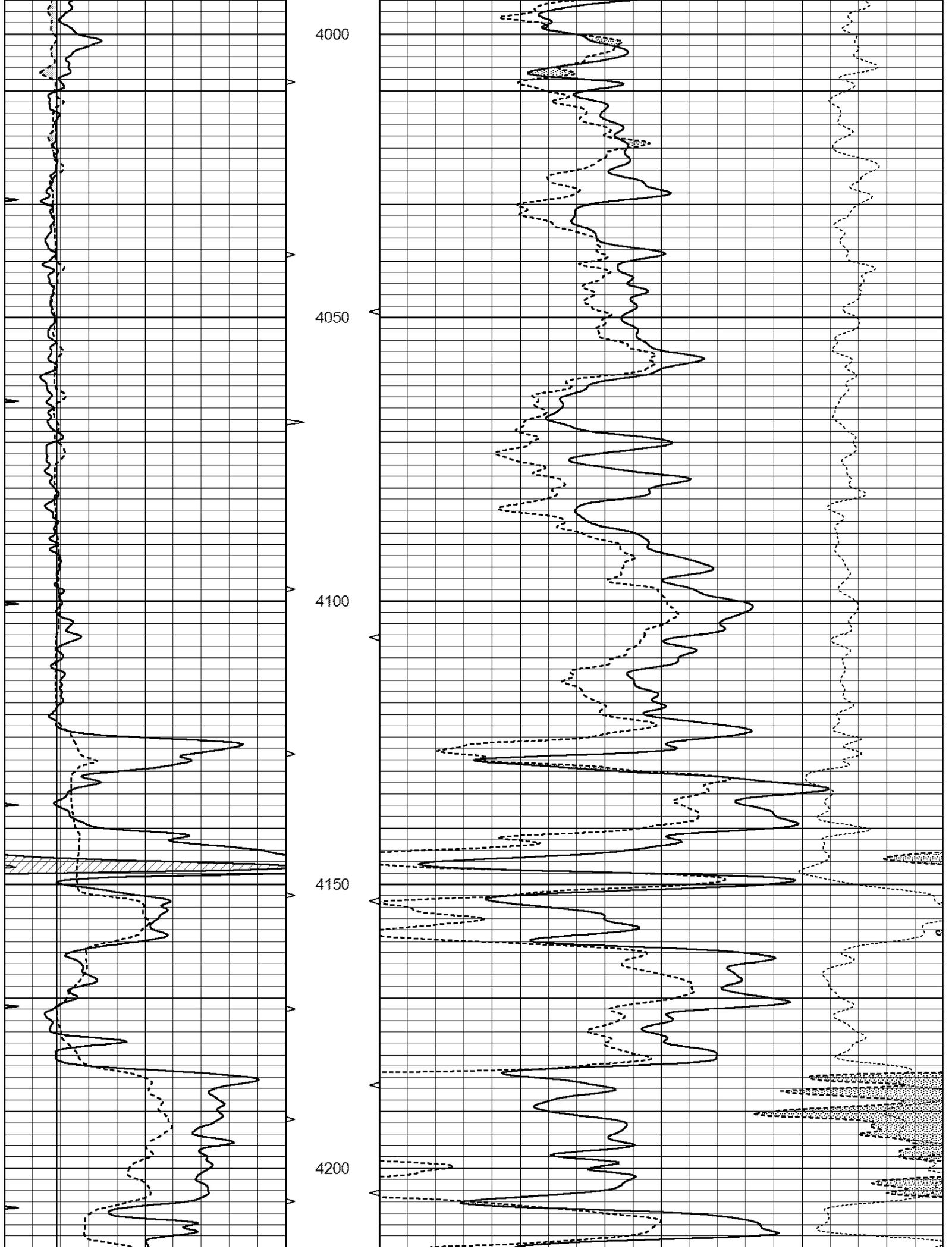
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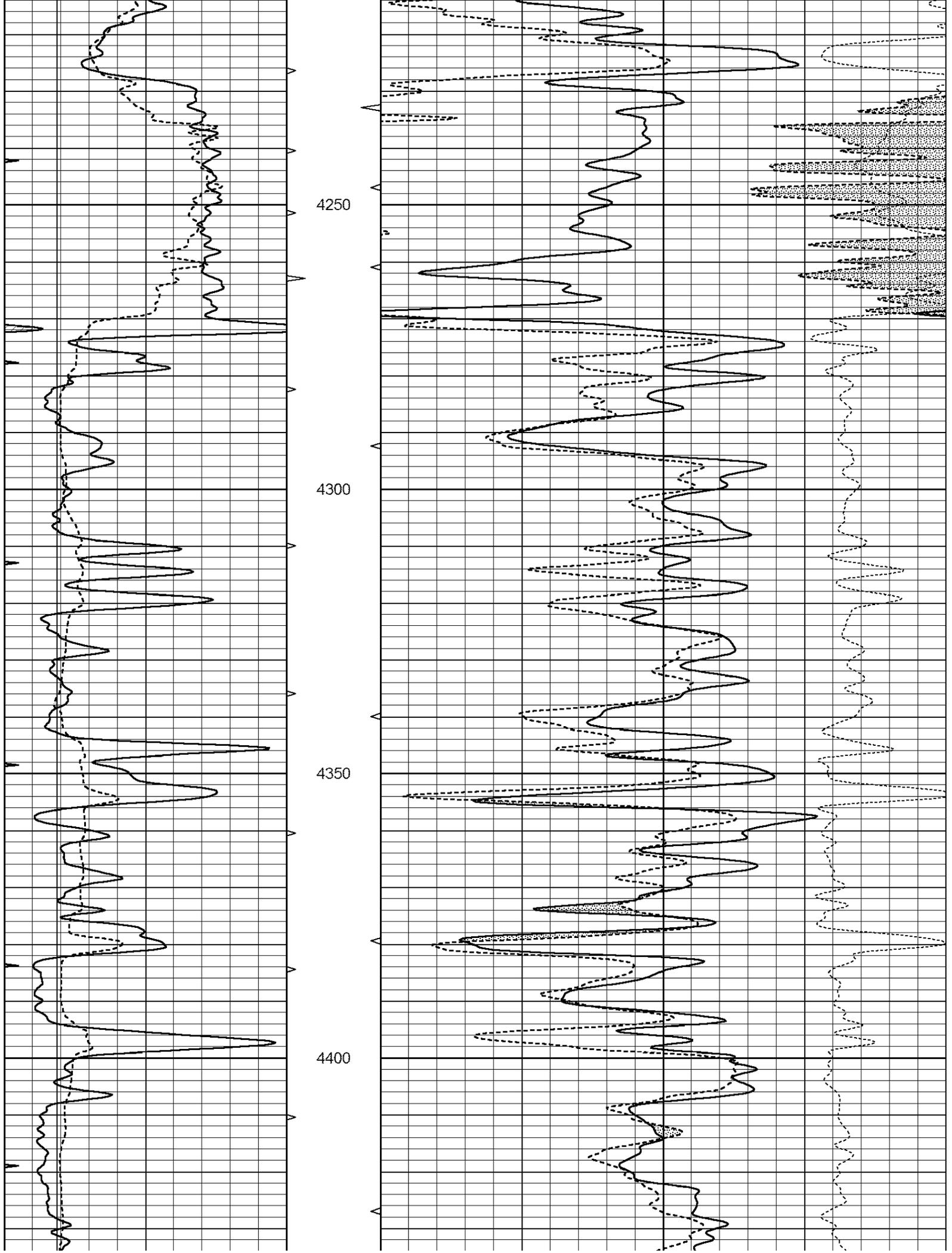
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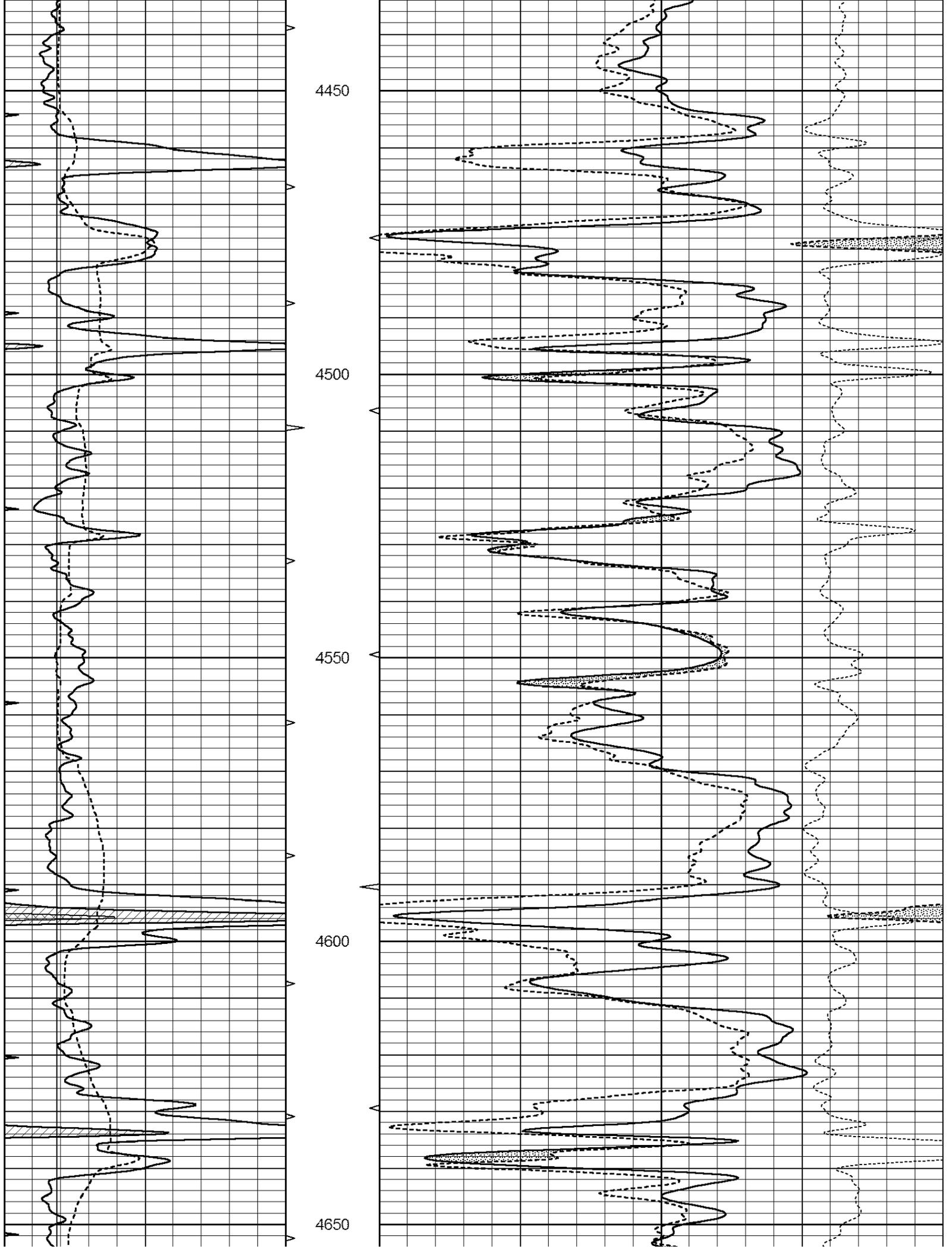
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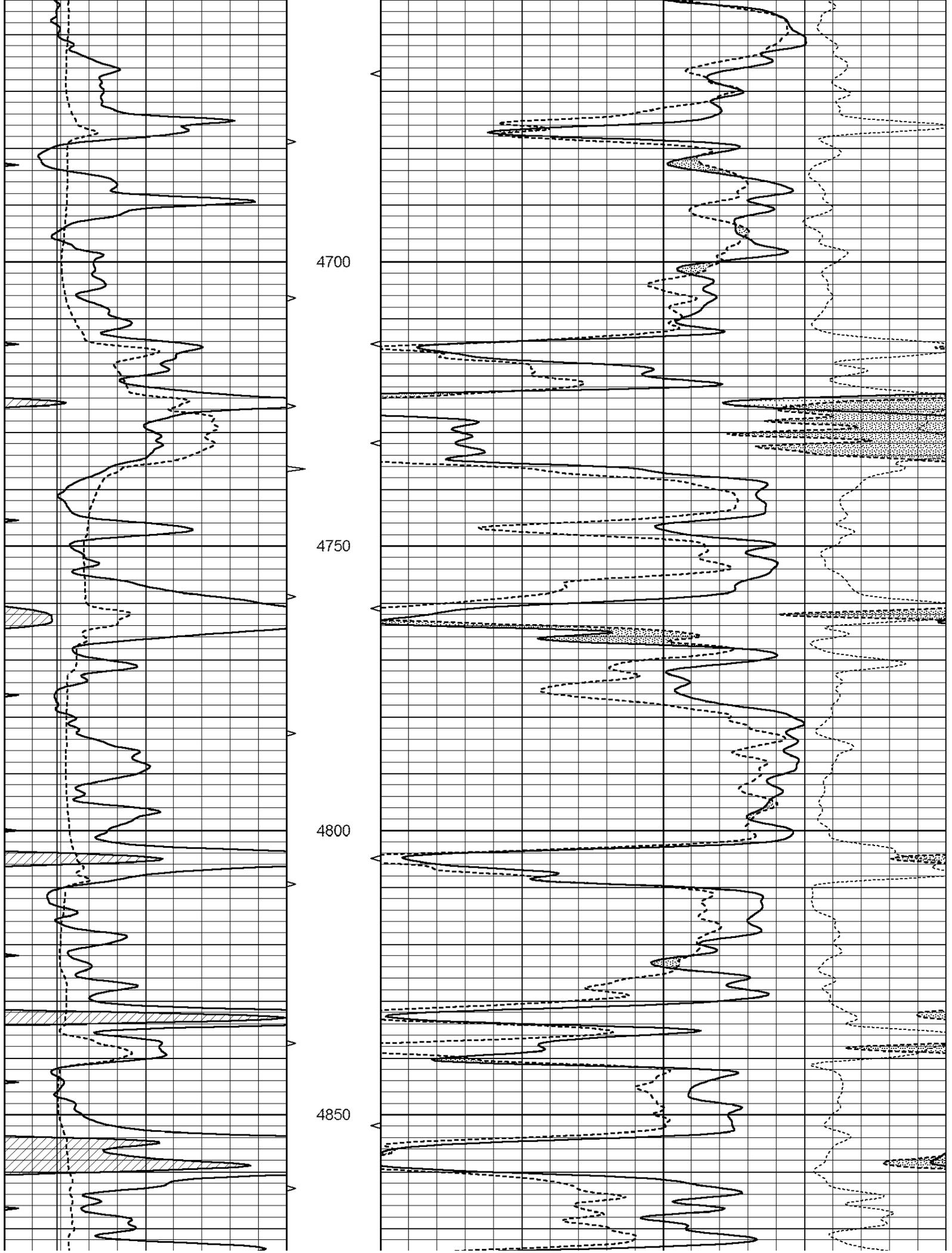
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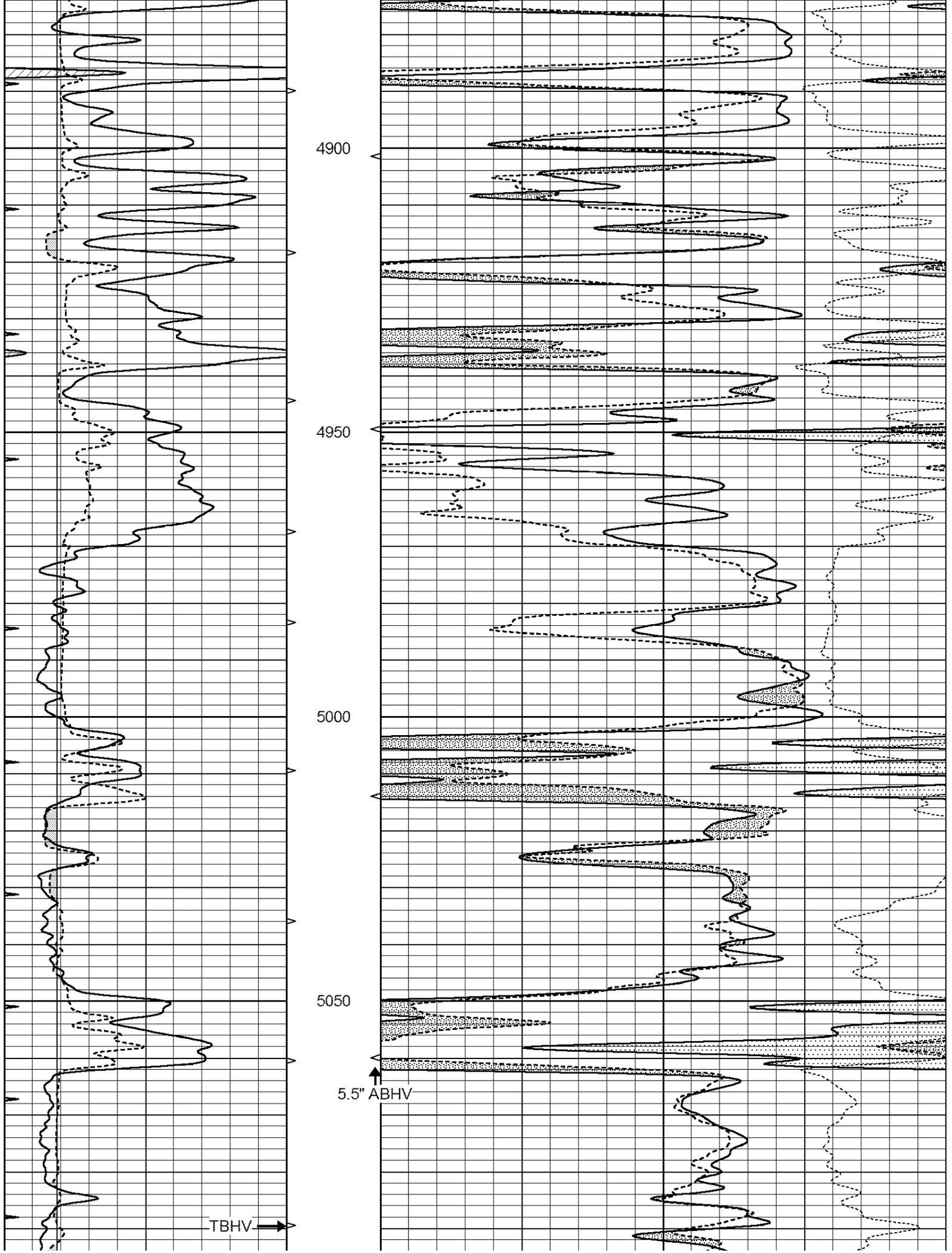


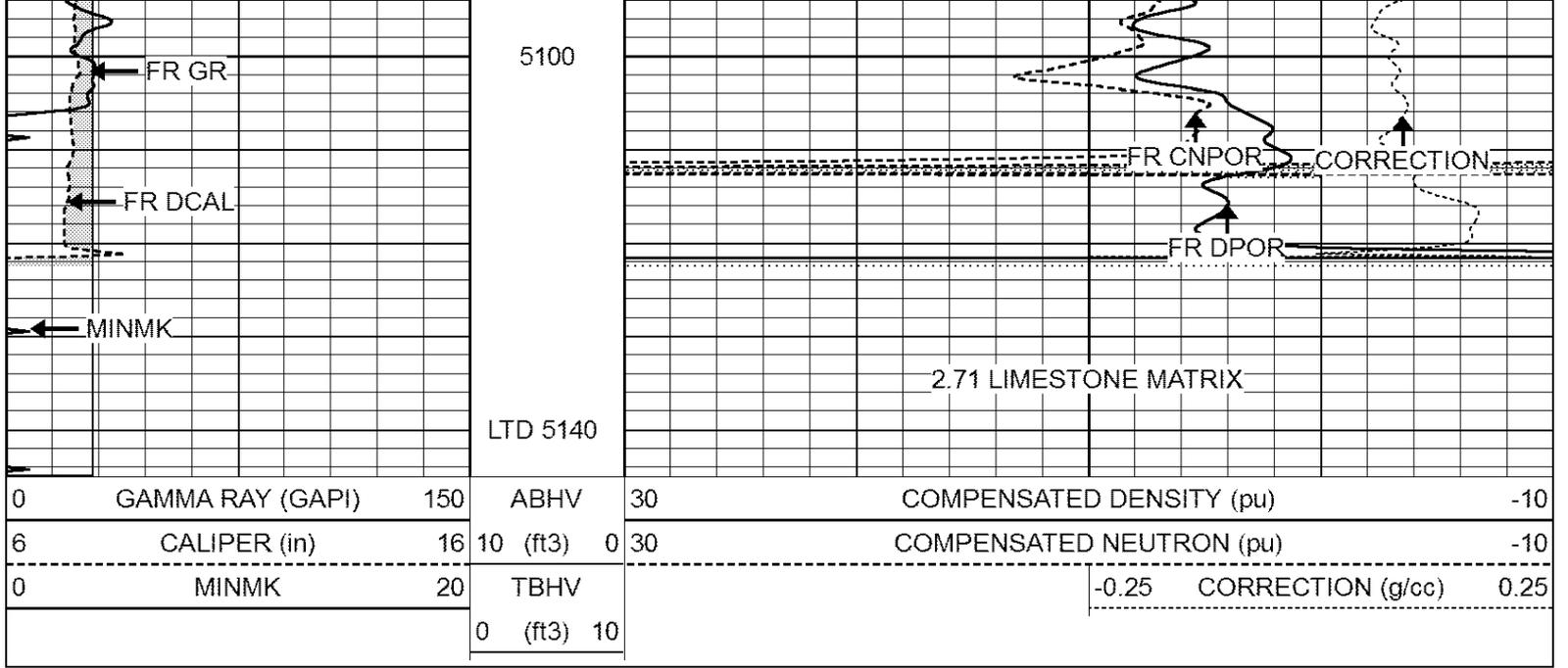










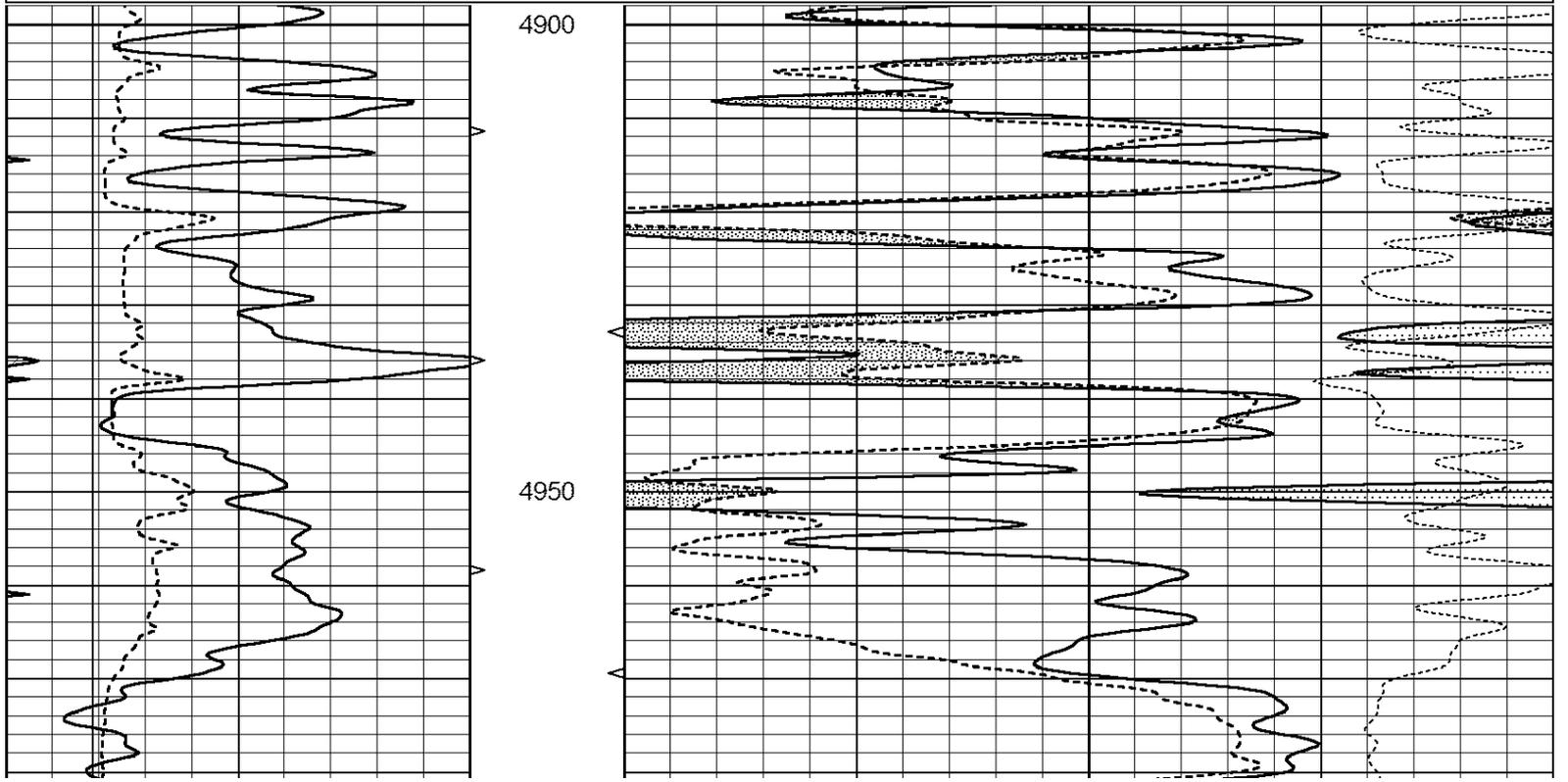


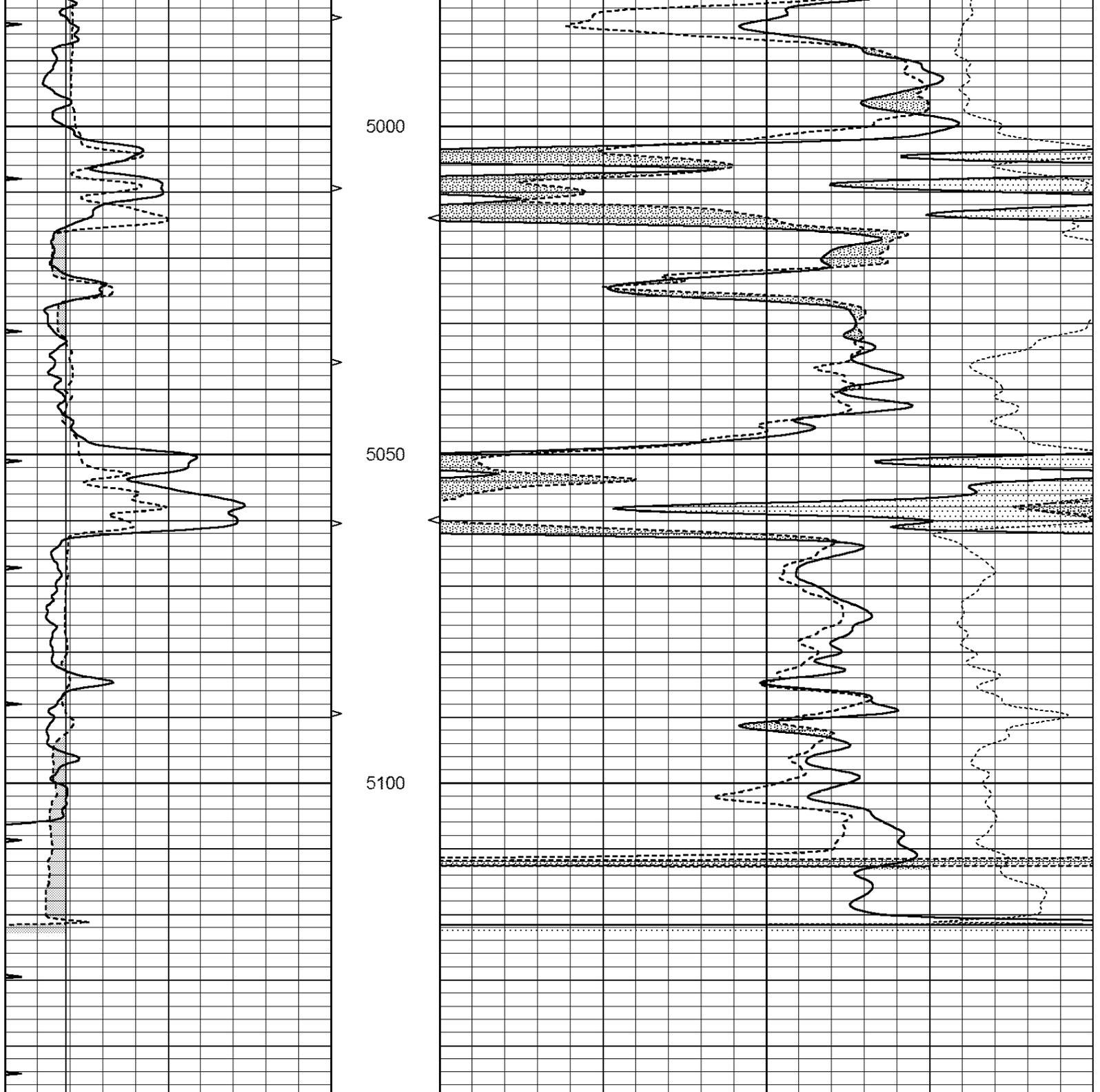
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REPEAT SECTION

Database File: 007298ddn.db
 Dataset Pathname: pass2.7
 Presentation Format: den_neu
 Dataset Creation: Thu Sep 15 13:10:22 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 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-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		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

Calibration Report

Database File: 007298ddn.db
 Dataset Pathname: pass3.10
 Dataset Creation: Thu Sep 15 13:56:14 2011

Dual Induction Calibration Report

Serial-Model:

DIL3-GEAR

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	6.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-10.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

Litho Density Calibration Report
 Serial: 004N Model: PRB
 Performed Tue Sep 08 13:49:55 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1535.8	11161.3	3721.6	12498.8	cps
Window 2	1402.6	9435.7	3219.7	10417.7	cps
Window 3	1077.6	4422.0	1779.2	4753.4	cps
Window 4	337.3	342.8	337.4	343.7	cps
Long Space	0.0	8033.1	1817.0	9015.1	cps
Short Space	1.2	1671.8	1138.1	1813.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.5	Rib Slope	: 1.017	Density/Spine Ratio	: 0.573
Spine Angle	: 75.5	Spine Slope	: 3.865	Spine Intercept	: -19.7

Caliper

	Readings	Reference	
Low Ref	2.8	7.4	
High Ref	4.6	15.0	
Gain: 4.2			Offset: -4.1

Compensated Neutron Calibration Report

Serial Number: NEU_11
 Tool Model: G

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	1.00 cps	1.00 cps	1.0000
Long Space	1.00 cps	1.00 cps	1.0000

Gamma Ray Calibration Report

Serial Number: GR1
 Tool Model: OPEN
 Performed: Thu Sep 15 12:37:54 2011

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps
 Calibrator Reading: 186.0 cps

Sensitivity: 0.2500 GAPI/cps