SUPERIOR WELL SERVICES LLC.

SUPERIOR
Hays, Kansas

COMPENSATED DENSITY/NEUTRON PE LOG

Company WOOLSEY OPERATING COMPANY, LLC.
Well TUCKER B #2
Field ROUNDUP SOUTH
County BARBER State KANSAS

Location: API # : 15-007-23466-00-00
330' FNL & 1650' FEL
NE-NW-NE
SEC 11 TWP 34S RGE 11W

Other Services
DIL

Permanent Datum GROUND LEVEL Elevation 1406
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1416
D.F. 1414
G.L. 1406

Company WOOLSEY OPERATING COMPANY, LLC.
Well TUCKER B #2
Field ROUNDUP SOUTH
County BARBER
State KANSAS

Date	12-13-09		
Run Number	ONE		
Depth Driller	5115		
Depth Logger	5113		
Bottom Logged Interval	5089		
Top Log Interval	1700		
Casing Driller	10 3/4" @ 225		
Casing Logger	223		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5000 PPM	
Density / Viscosity	9.2/61		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.9 @ 24F		
Rmf @ Meas. Temp	.675 @ 24F		
Rmc @ Meas. Temp	1.44 @ 24F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.171 @ 126F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	126F		
Equipment Number	680		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI	JEFF GRONEWEG	
Witnessed By	BILL KLAVER		

<<< Fold Here >>>

Comments

THANK YOU FOR USING SUPERIOR WELL SERVICES HAYS, KANSAS (785)628-6395

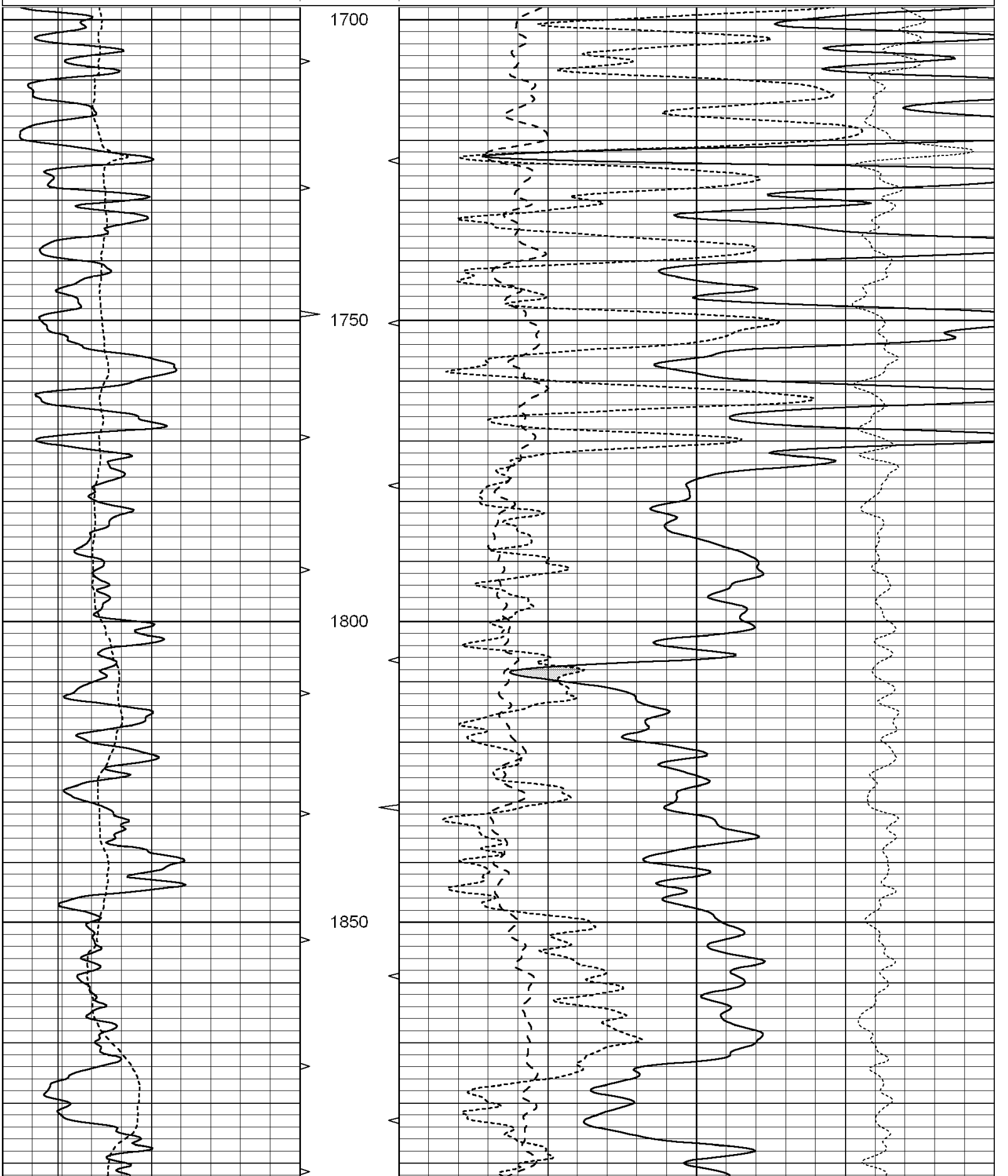
DIRECTIONS

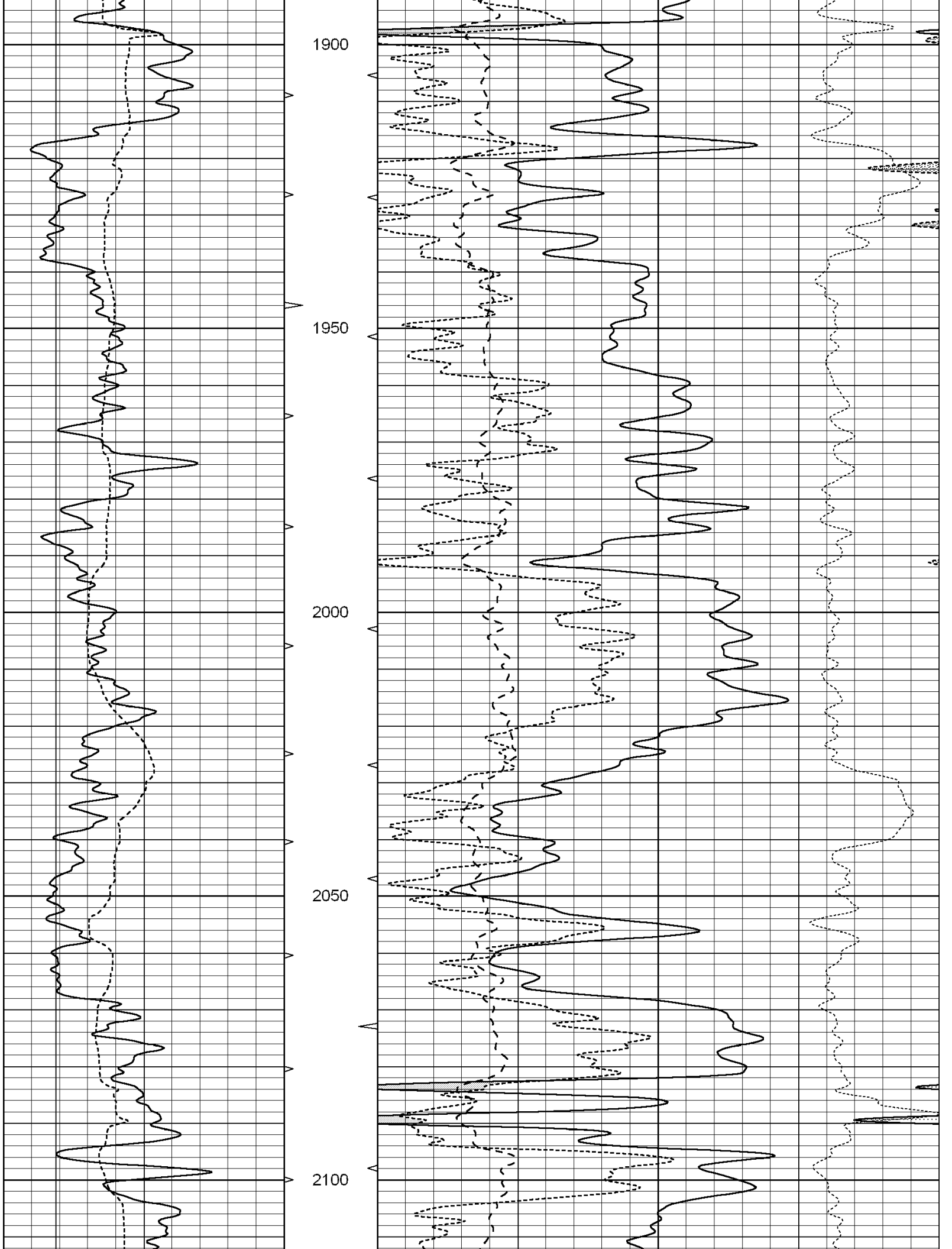
MEDICINE LODGE, 9 S. TO GERLANE RD. E. TO BETHEL RD. - 1 S. - 1/3 W. - S. INTO

Database File: 004659ddn.db
Dataset Pathname: pass3.1
Presentation Format: _ldt_neu
Dataset Creation: Sun Dec 13 11:24:33 2009 by Calc Open-Cased 090629

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
	TBHV	0 PE 10 -0.25 CORRECTION (g/cc) 0.25
	0 (ft3) 10	

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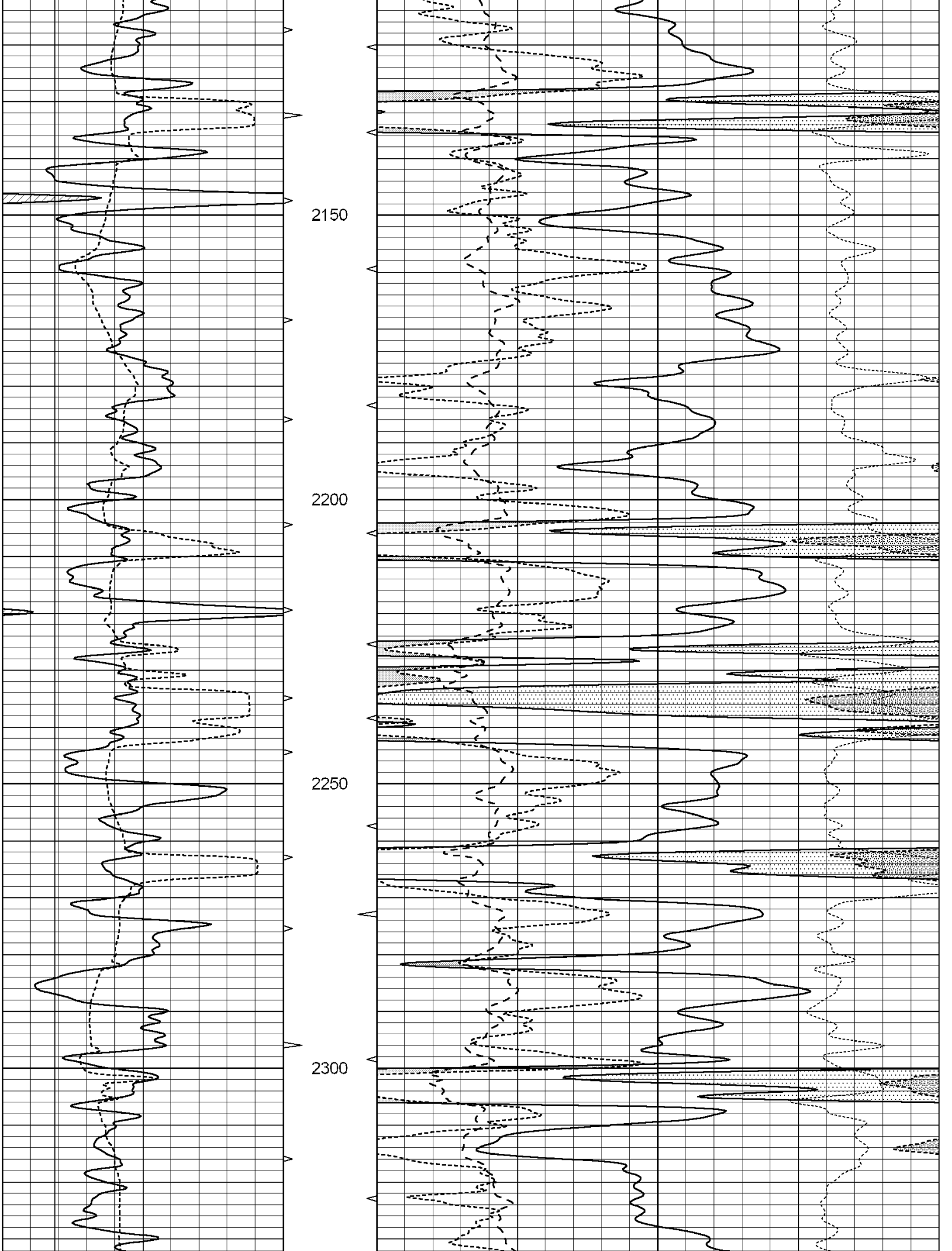
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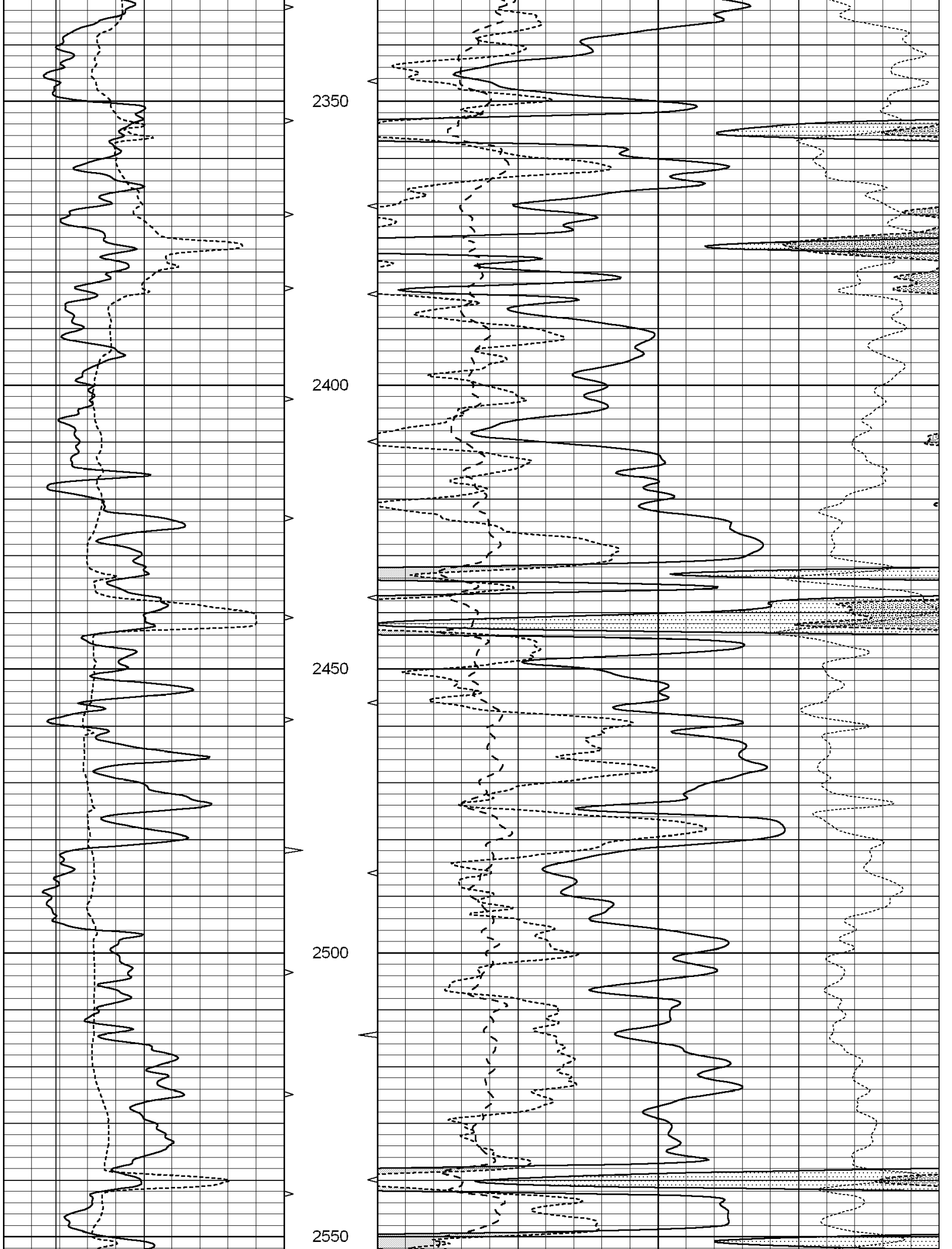
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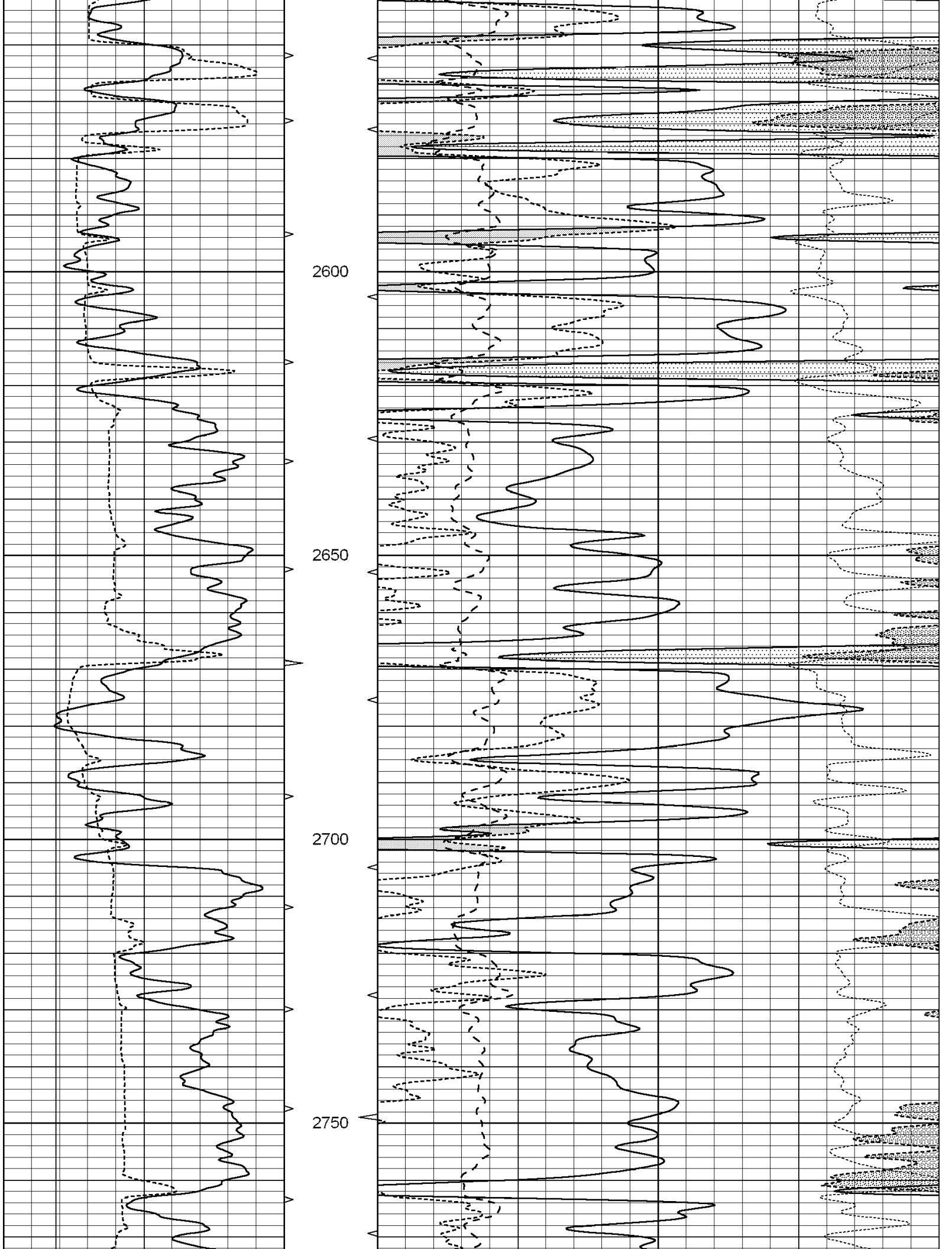
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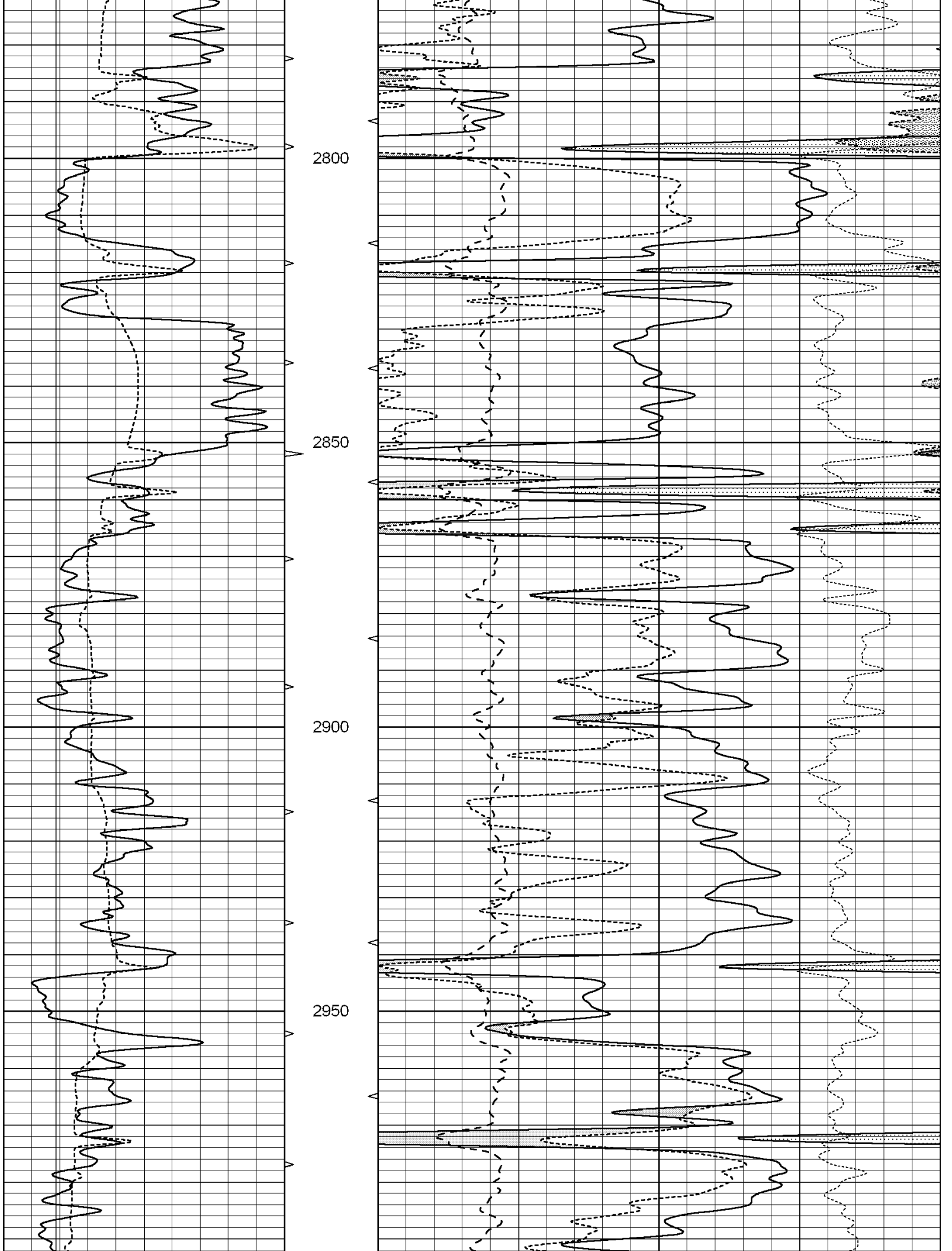
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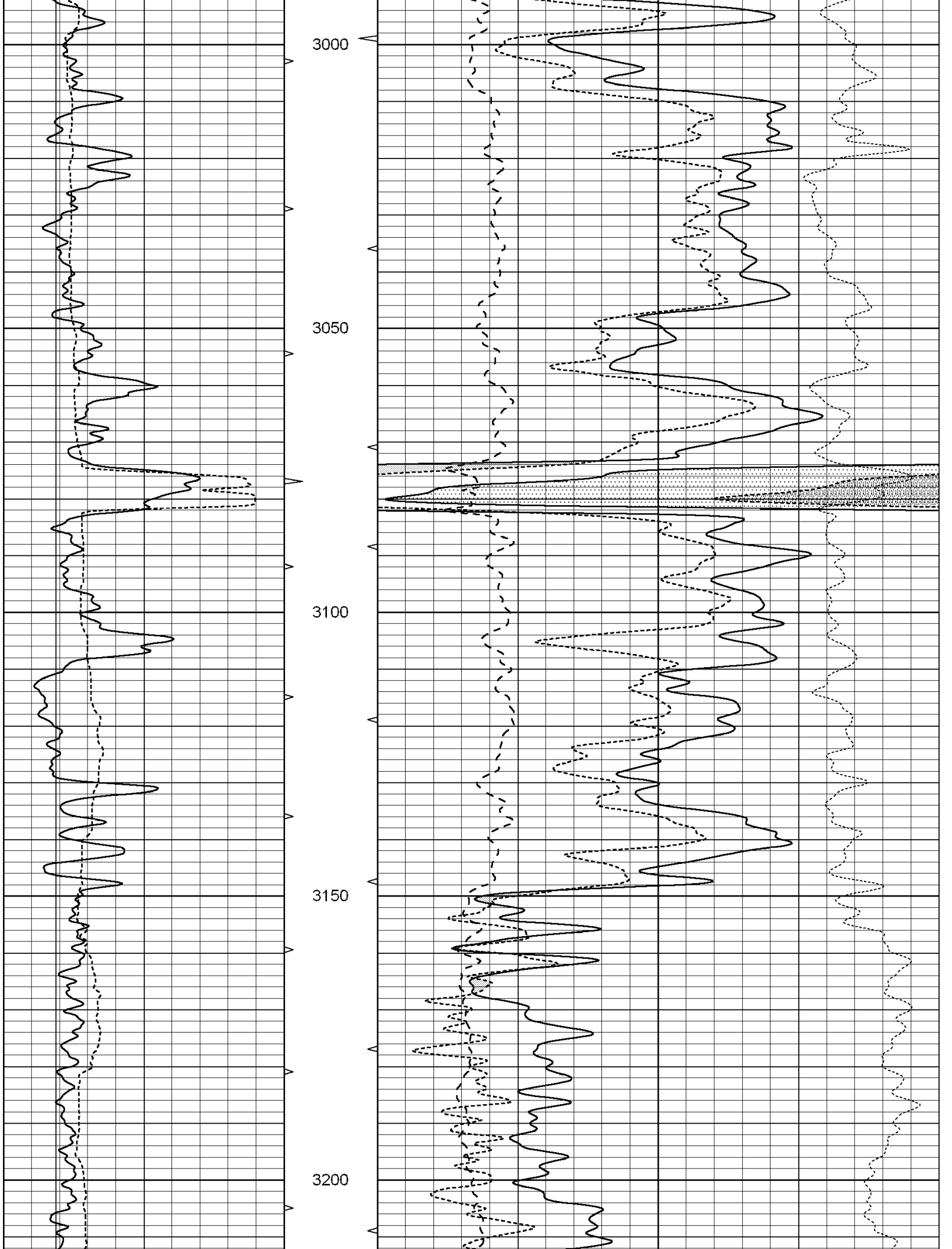
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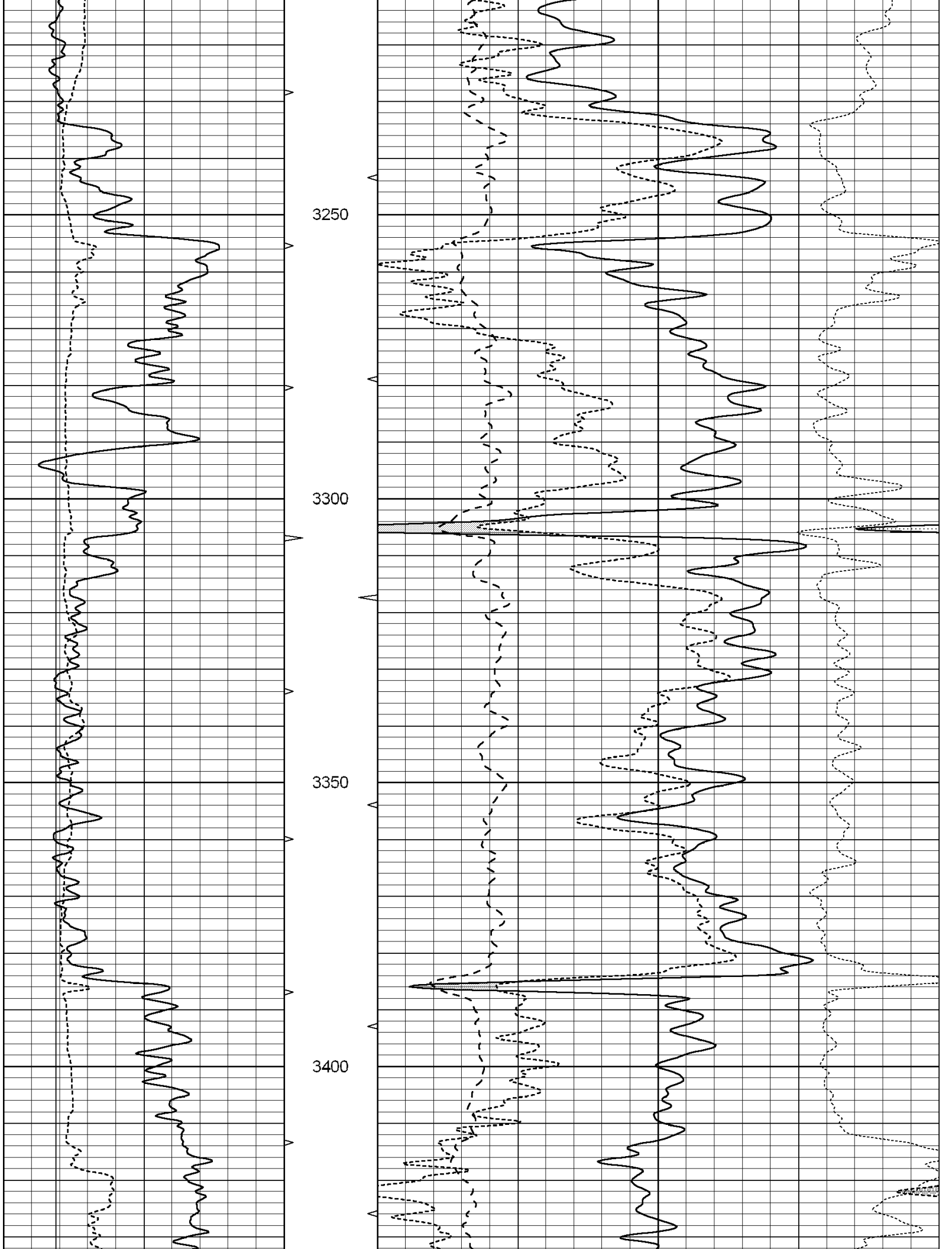
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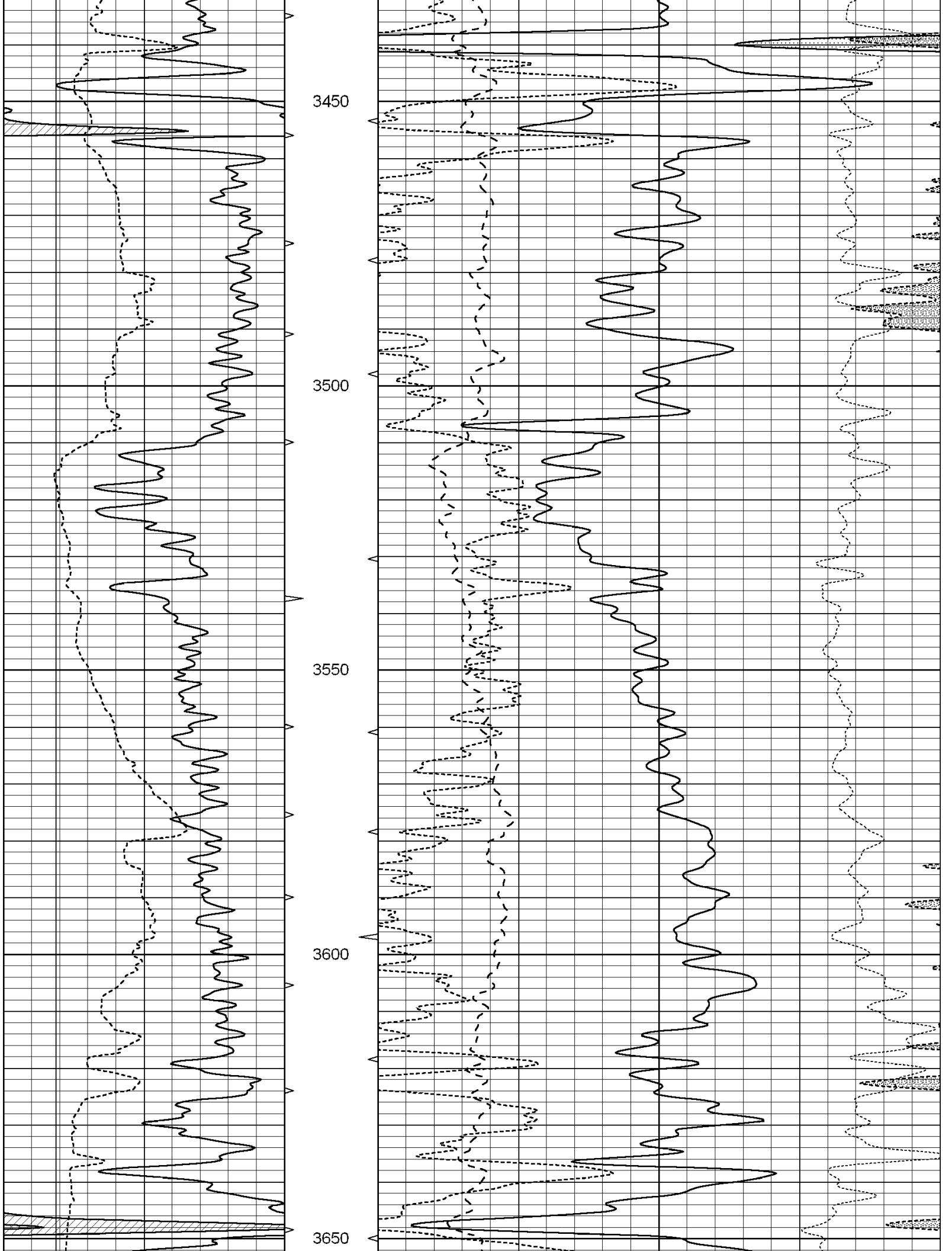
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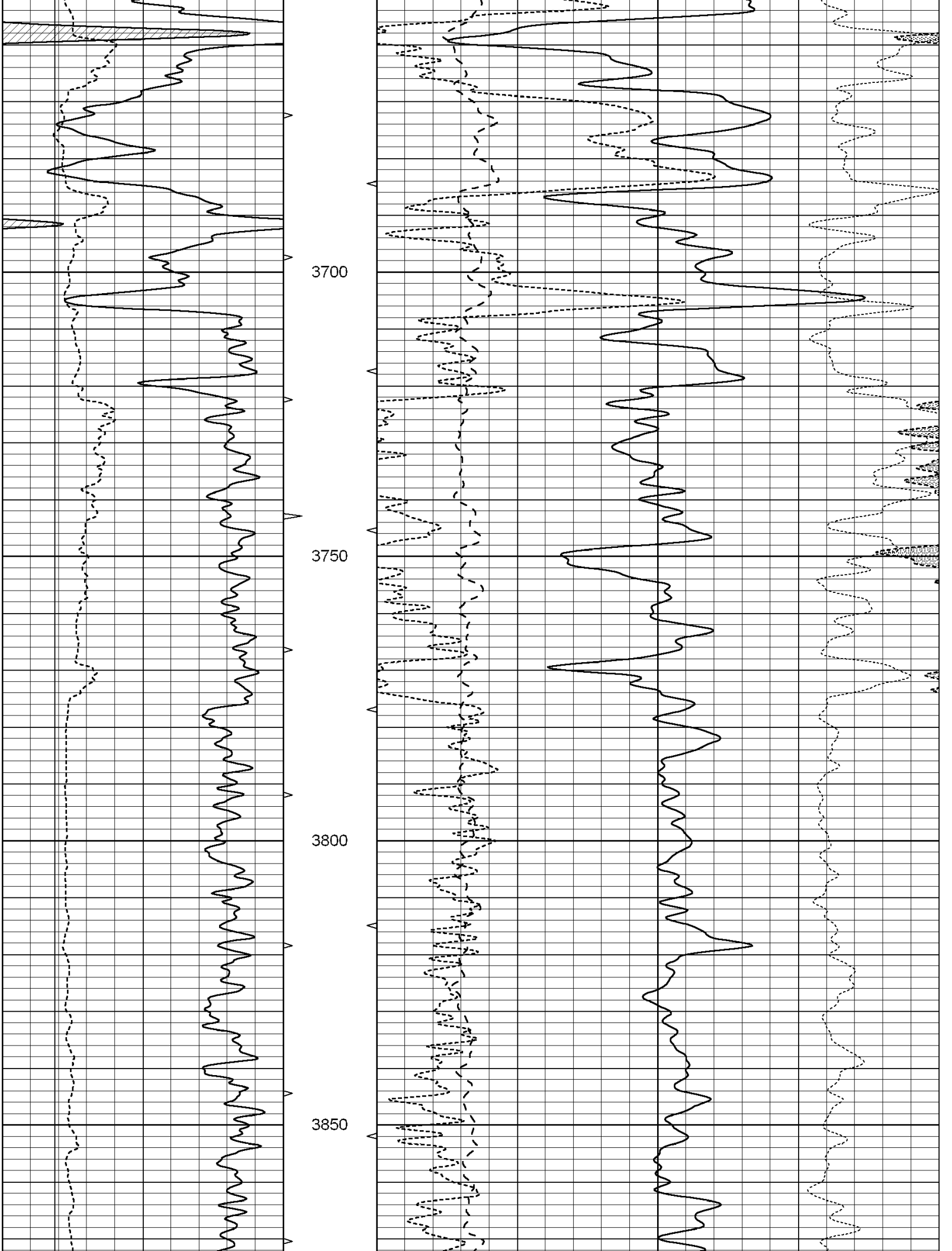
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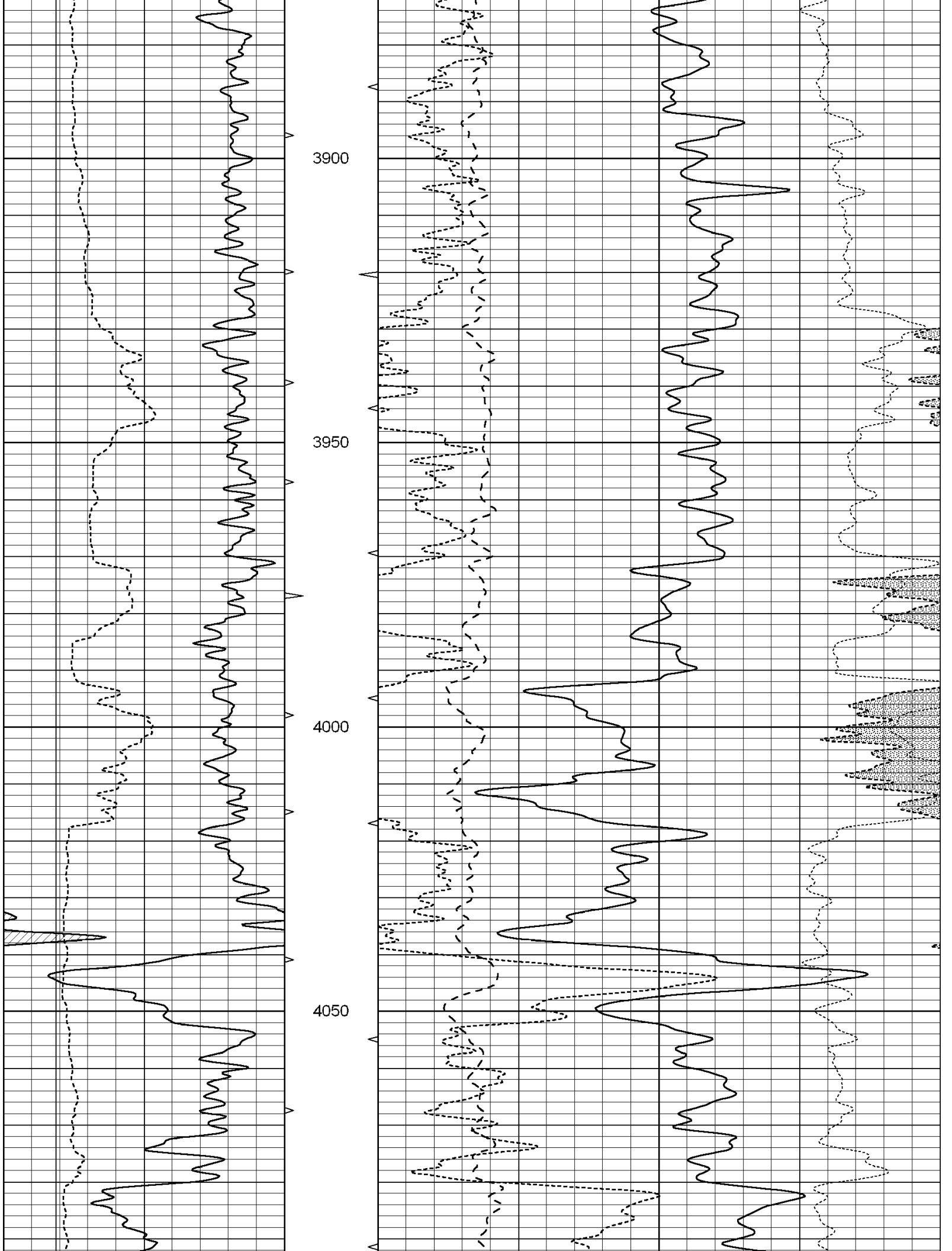
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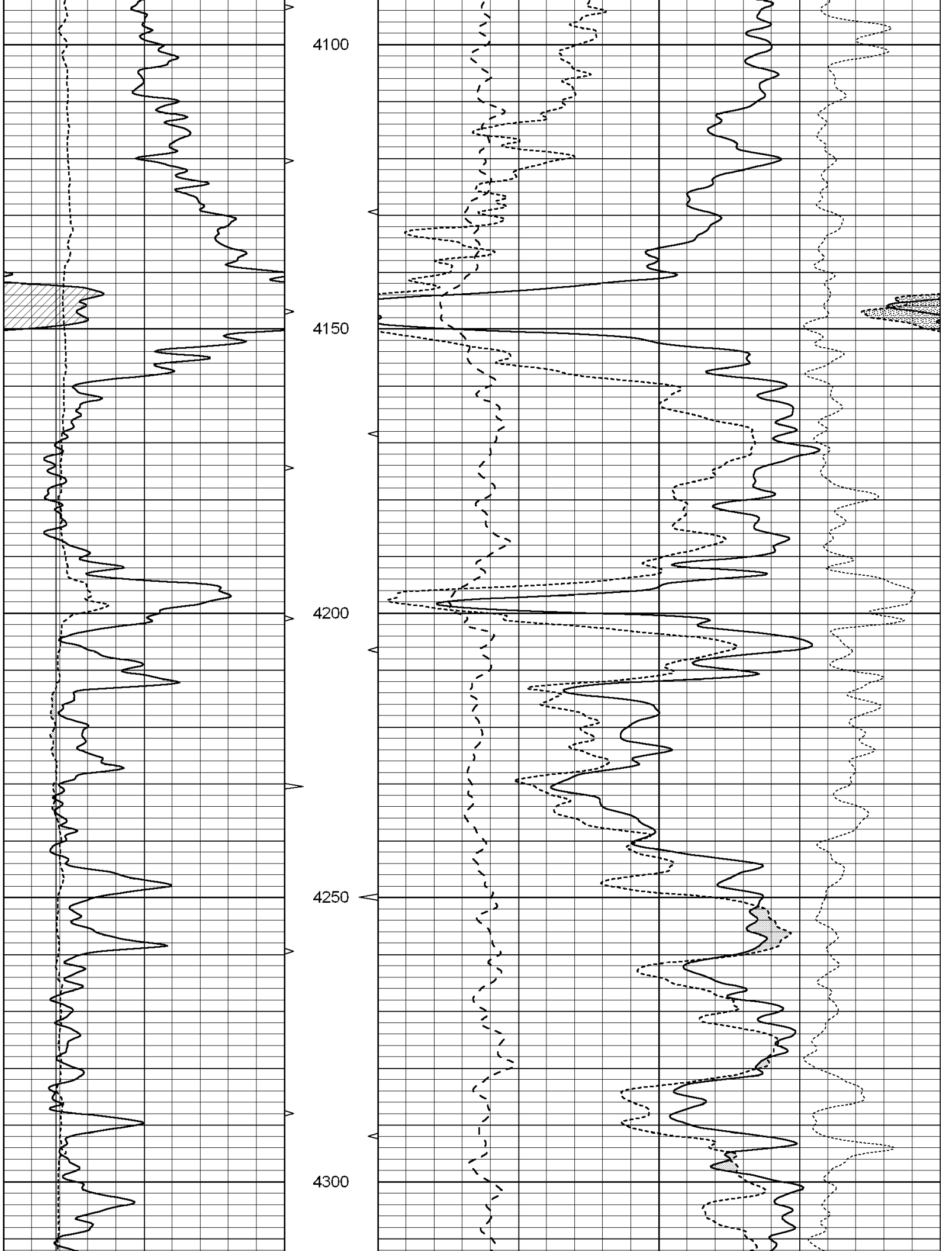
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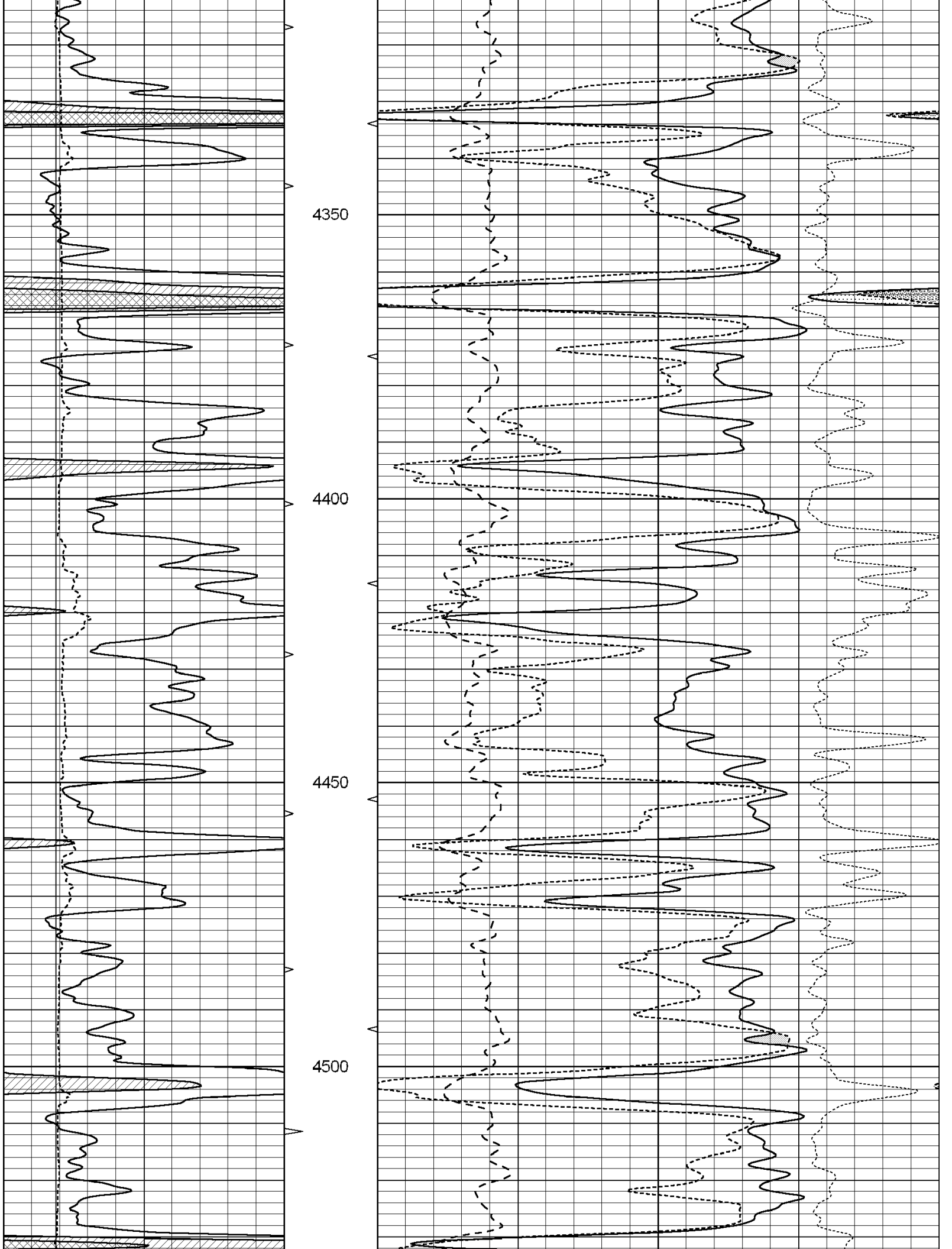
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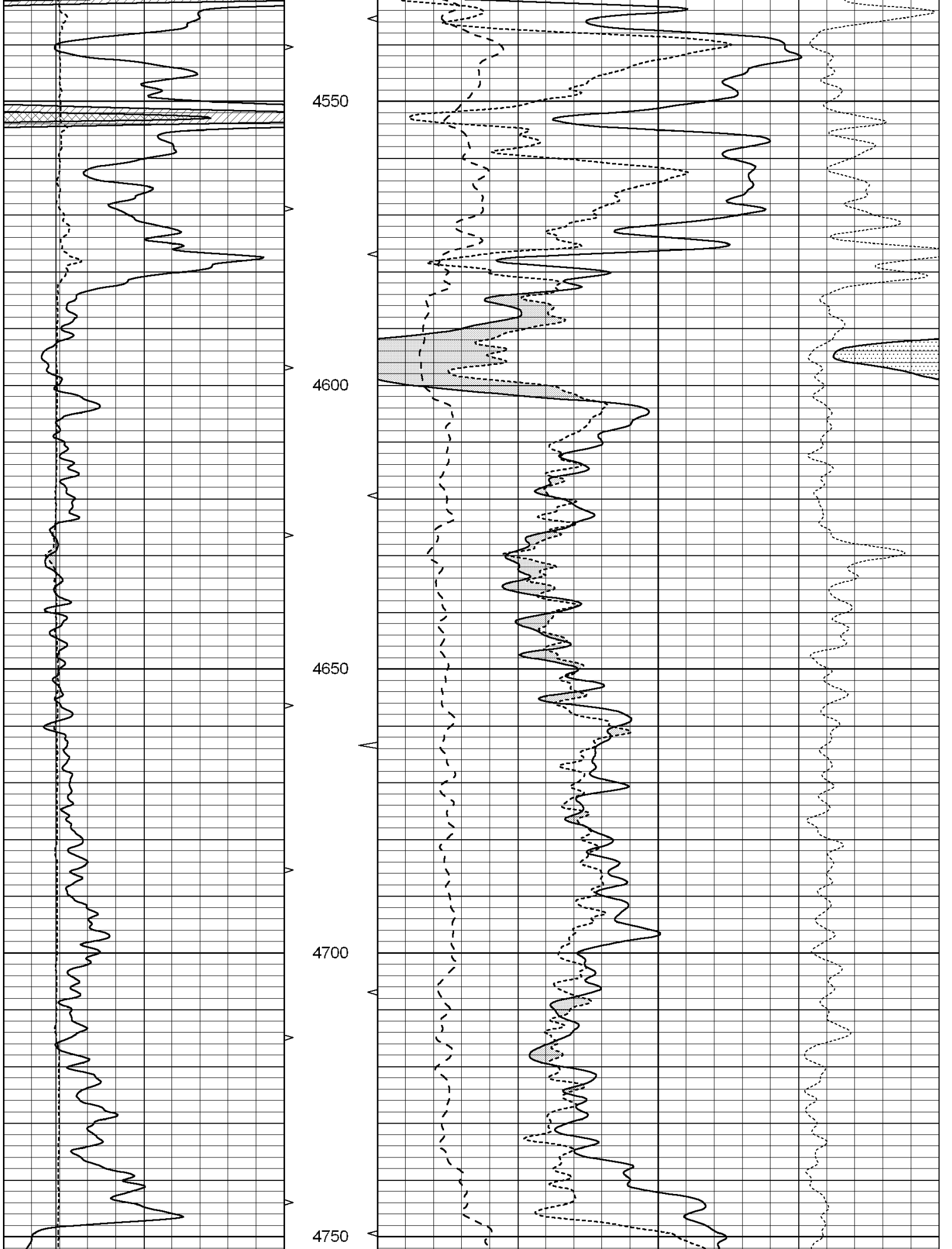
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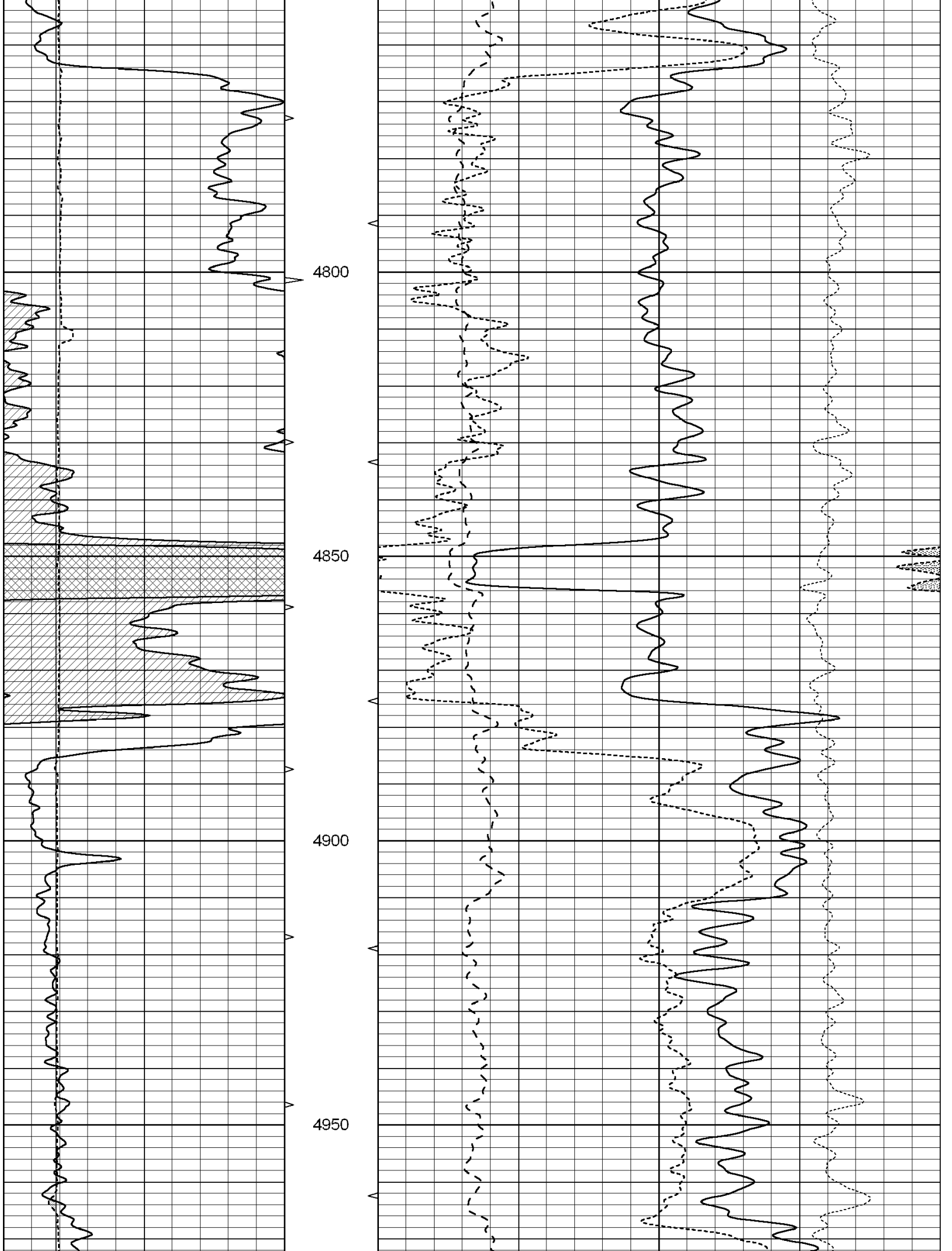
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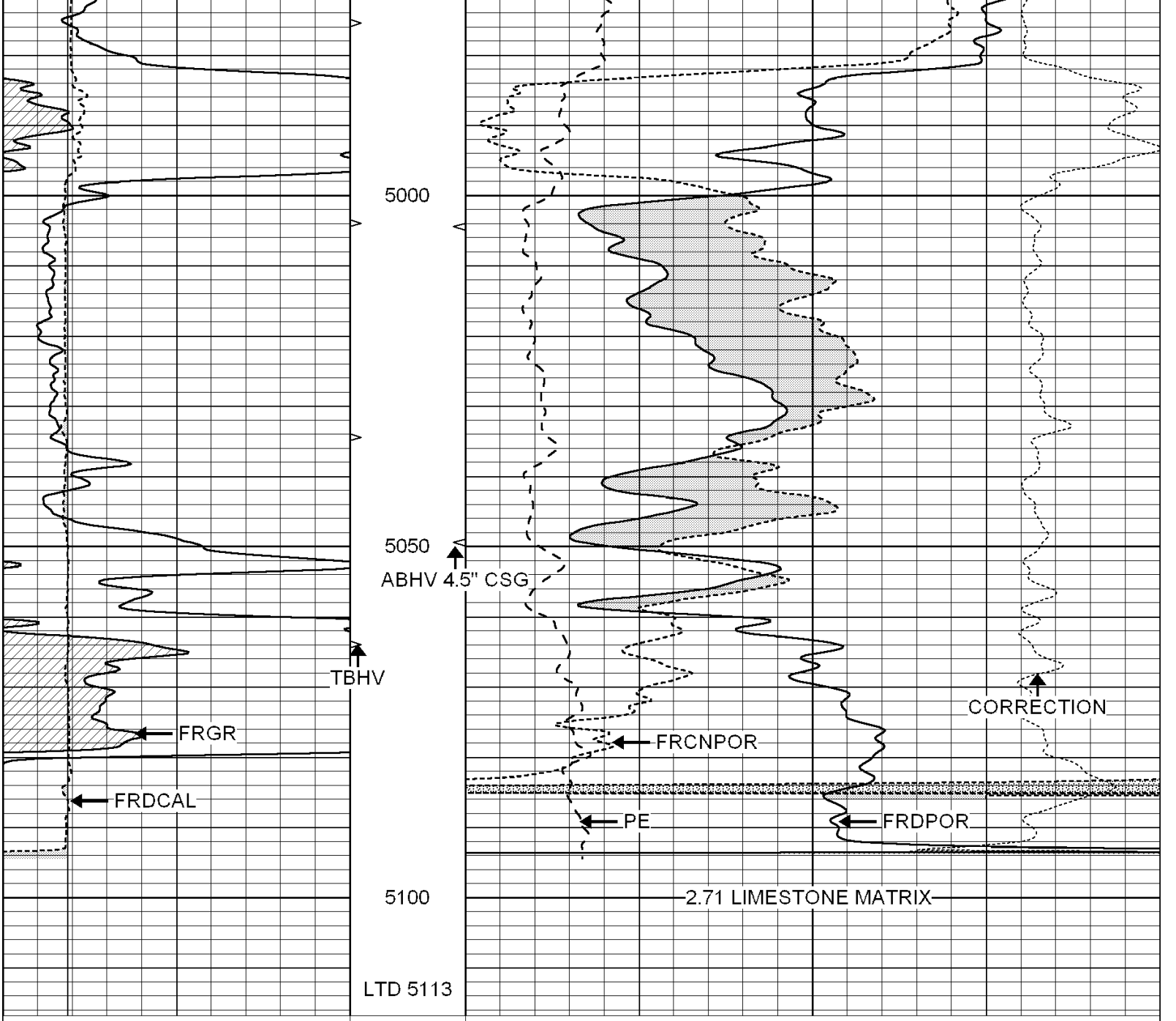


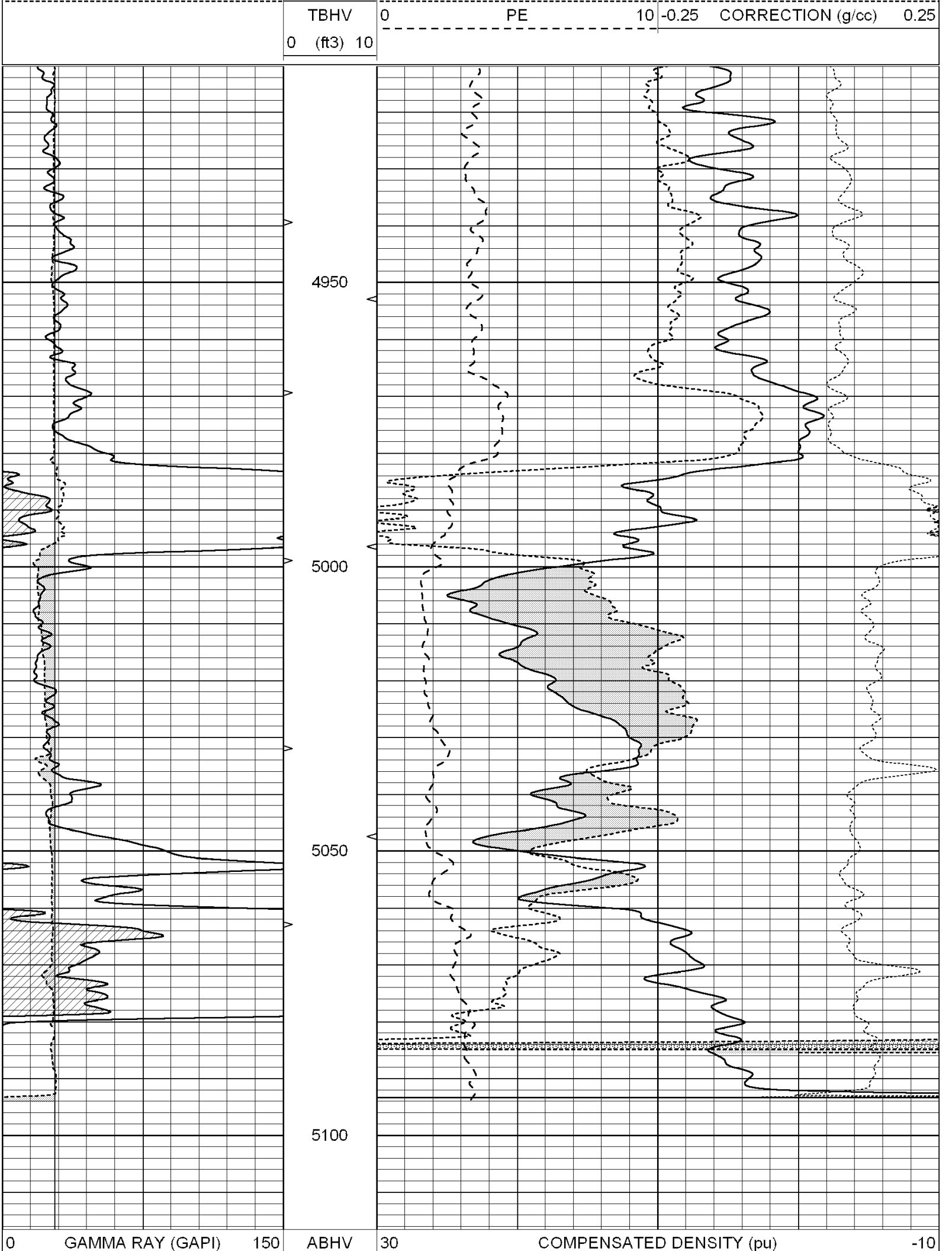
SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	004659ddn.db
Dataset Pathname:	pass2.1
Presentation Format:	_ldt_neu
Dataset Creation:	Sun Dec 13 10:04:28 2009 by Calc Open-Cased 090629
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


TBHV
0 (ft3) 10
0 PE 10
-0.25 CORRECTION (g/cc) 0.25
4950
5000
5050
5100
0 GAMMA RAY (GAPI) 150
ABHV
30 COMPENSATED DENSITY (pu) -10

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

Calibration Report

Database File: 004659ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Sun Dec 13 10:04:28 2009 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Fri Aug 01 06:33:19 2008
Downhole Cal Performed:	Mon Jul 28 11:08:27 2008
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-6.500	V		3800.000	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: 002 Model: PRB
Performed Mon Oct 29 15:40:49 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1056.3	9118.0	2809.7	10378.4	cps
Window 2	969.9	7671.9	2431.6	8565.8	cps
Window 3	683.8	2939.8	1161.0	3161.8	cps
Window 4	231.4	231.6	226.7	230.8	cps
Long Space	0.0	6702.0	1461.7	7595.9	cps
Short Space	1.2	1433.6	959.4	1568.6	cps

Rho	1.7100	2.5900	1.3800	g/cc
Pe		2.5700	1.5500	

Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.559
Spine Angle	: 75.2	Spine Slope	: 3.791	Spine Intercept	: -18.7

Caliper

	Readings	Reference
Low Ref	3.1	8.0
High Ref	5.4	14.0

Gain: 2.5 Offset: 1.2

Compensated Neutron Calibration Report

Serial Number: 5I
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: GR6
Tool Model: OPEN
Performed: Tue Nov 10 08:32:36 2009

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 276.0 cps

Sensitivity: 0.5535 GAPI/cps