SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

COMPENSATED DENSITY / NEUTRON LOG

Company AMERICAN ENERGIES CORPORATION
Well SCHWARTZ / STUART #1-21
Field
County KINGMAN State KANSAS

Location: API # : 15-095-22252
2500' FSL & 2020' FWL
SEC 21 TWP 27S RGE 7W

Other Services
DIL
MICRO

Permanent Datum GROUND LEVEL Elevation 1578
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1587
D.F.
G.L. 1578

Company AMERICAN ENERGIES CORPORATION
Well SCHWARTZ / STUART #1-21
Field
County KINGMAN
State KANSAS

Date	5-10-12		
Run Number	ONE		
Depth Driller	4243		
Depth Logger	4240		
Bottom Logged Interval	4236		
Top Log Interval	1900		
Casing Driller	309		
Casing Logger	308		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 50		
pH / Fluid Loss	10.0 / 10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.95 @ 76F		
Rmf @ Meas. Temp	0.71 @ 76F		
Rmc @ Meas. Temp	1.14 @ 76F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.620 @ 117F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	3:15 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	DAVE GOLDAK		

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Comments

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: KINGMAN & WHITES FOOD STORE, 2N, 1/2E, N INTO.

MAIN SECTION

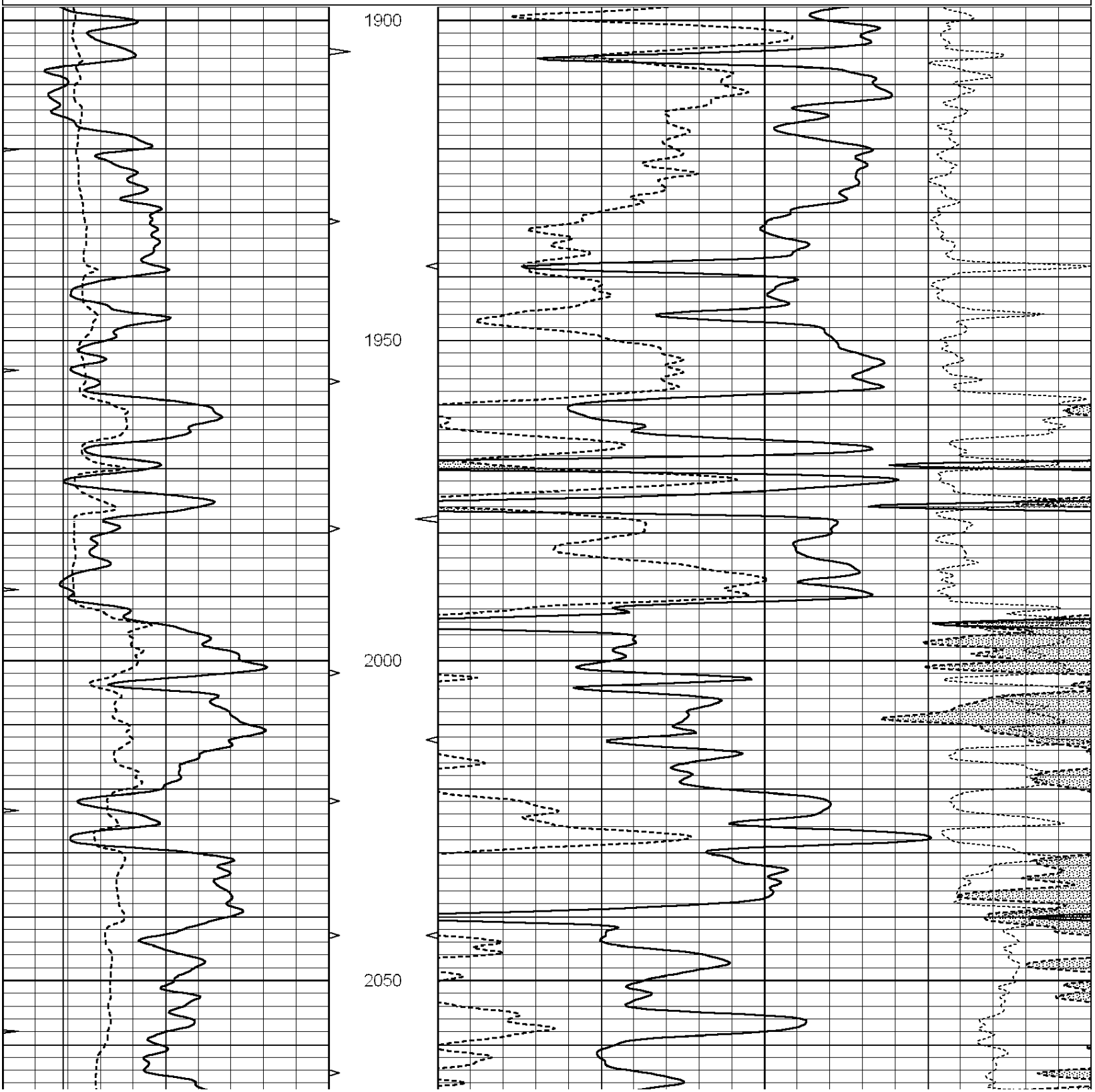
SUPERIOR
Hays,

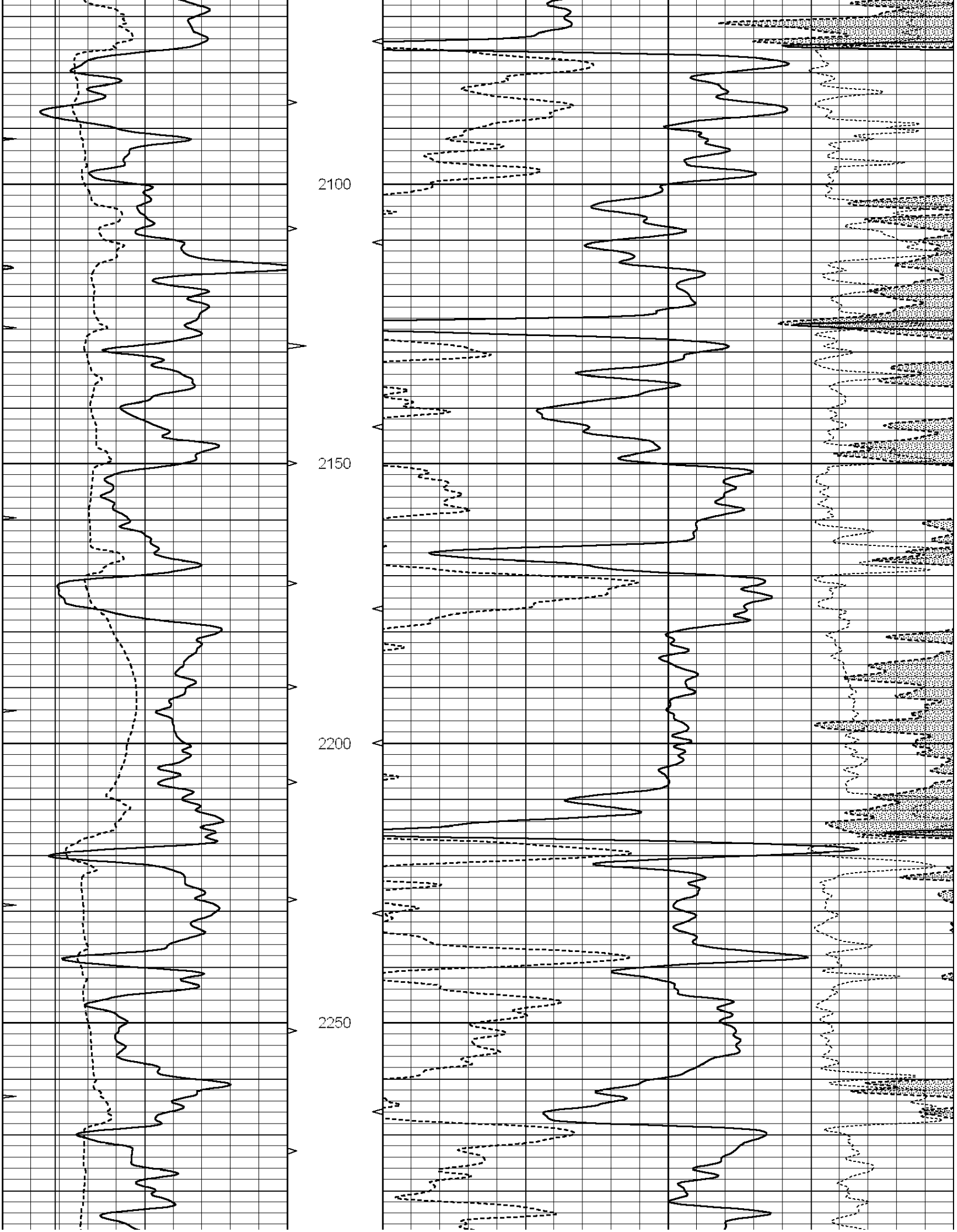
SUPERIOR WELL SERVICES

Kansas

Database File:	009114ddn.db
Dataset Pathname:	pass3AAA
Presentation Format:	den_neu
Dataset Creation:	Thu May 10 09:15:56 2012
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
6	MELCAL (in)	16	0 (ft3)	10			

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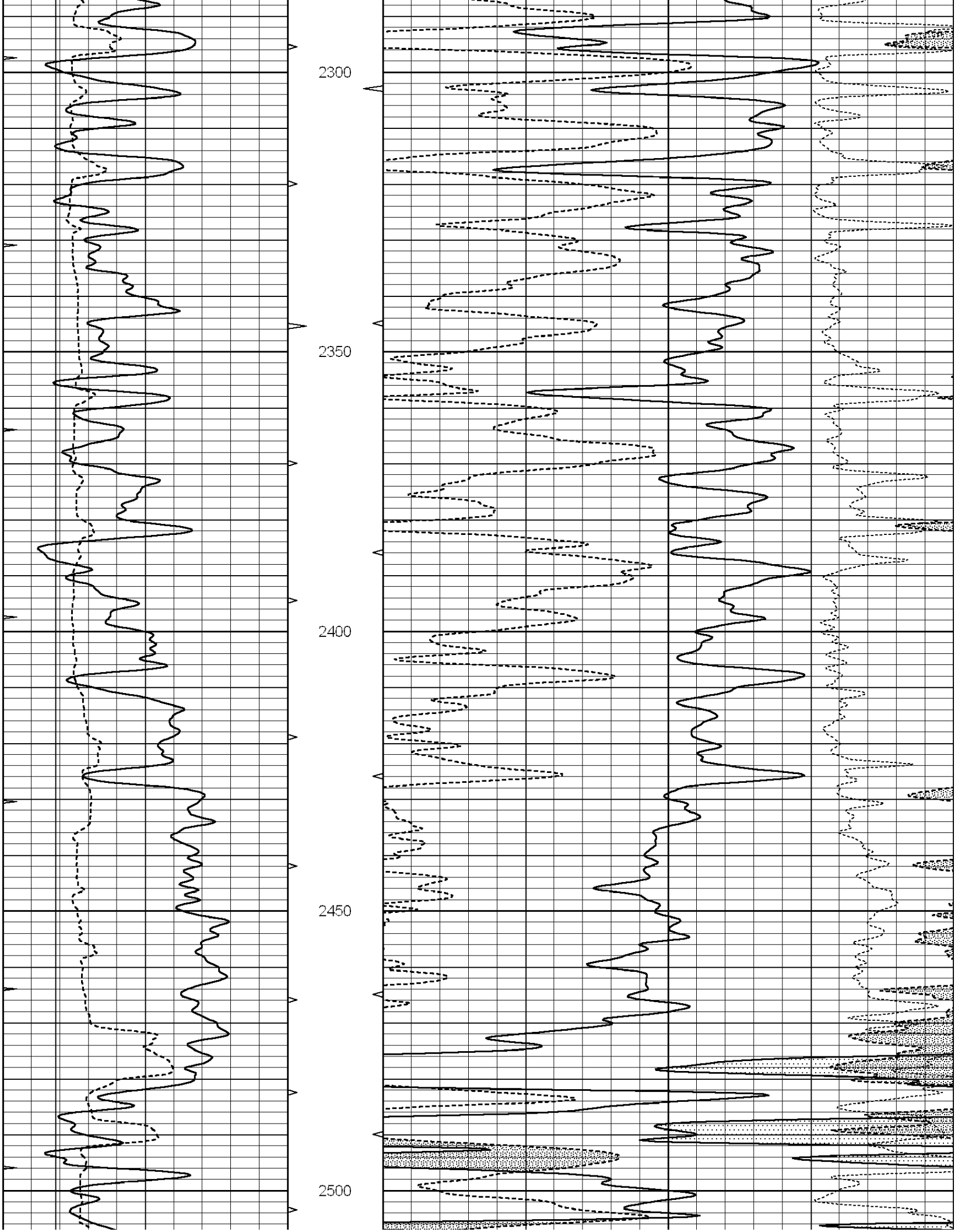
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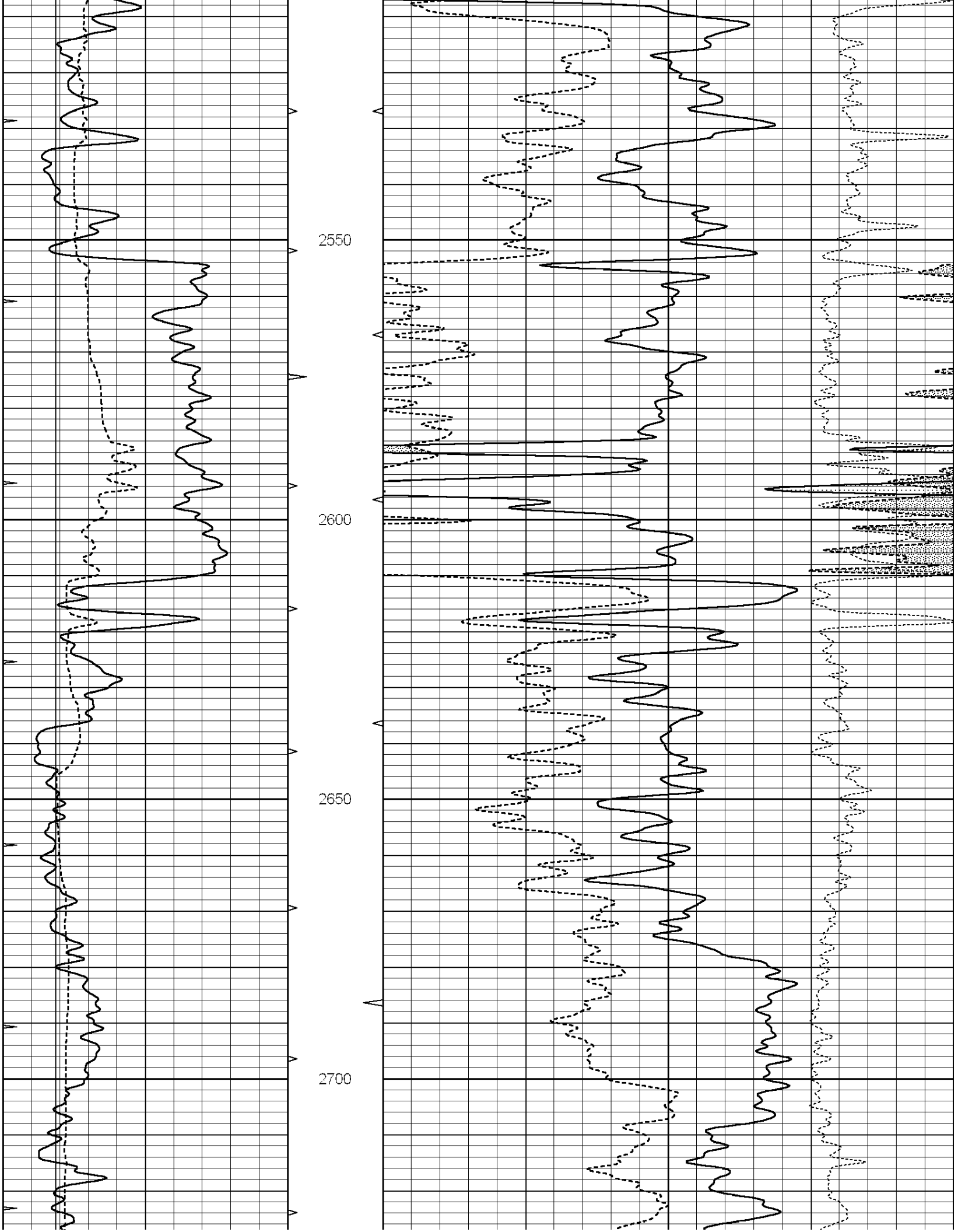
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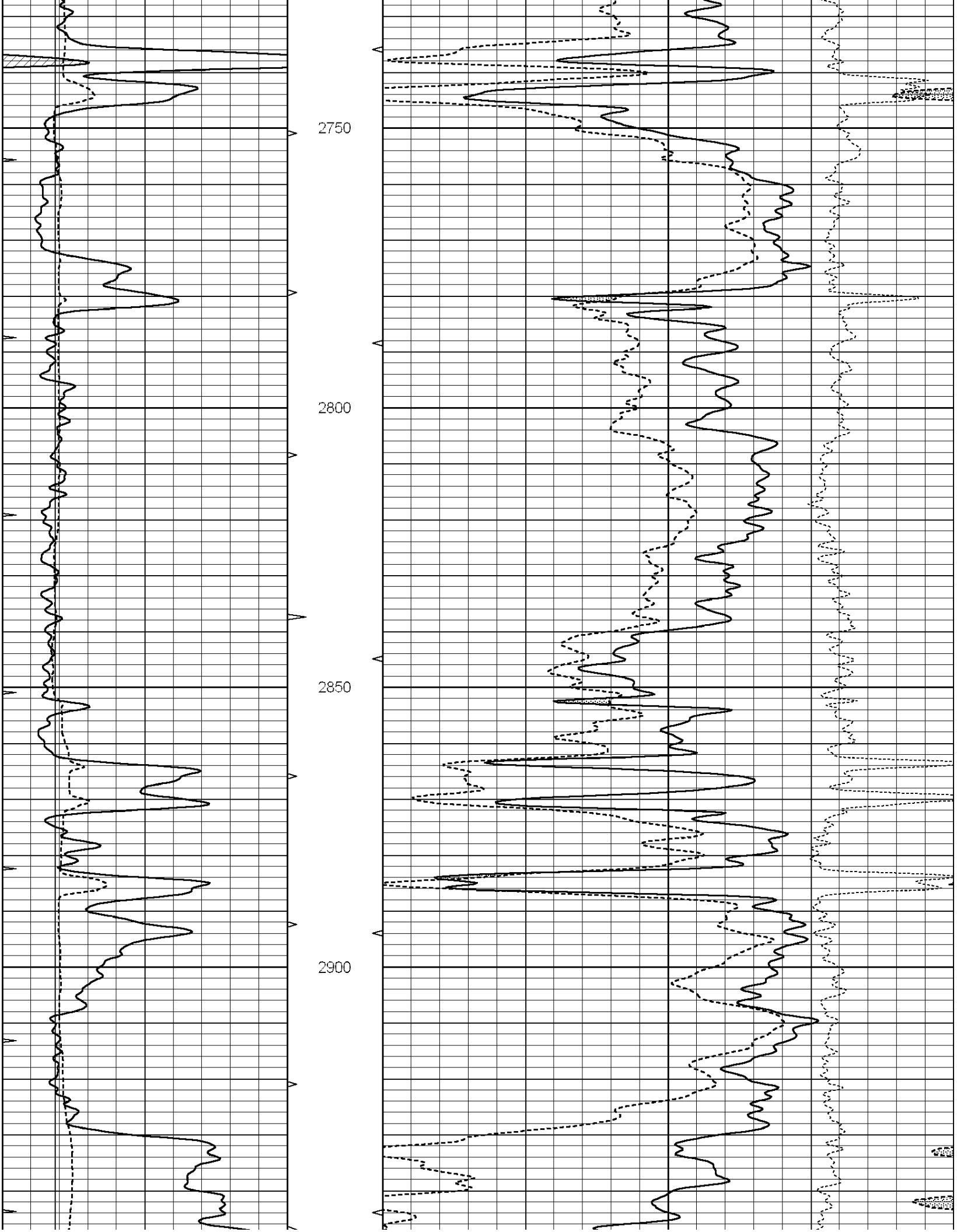
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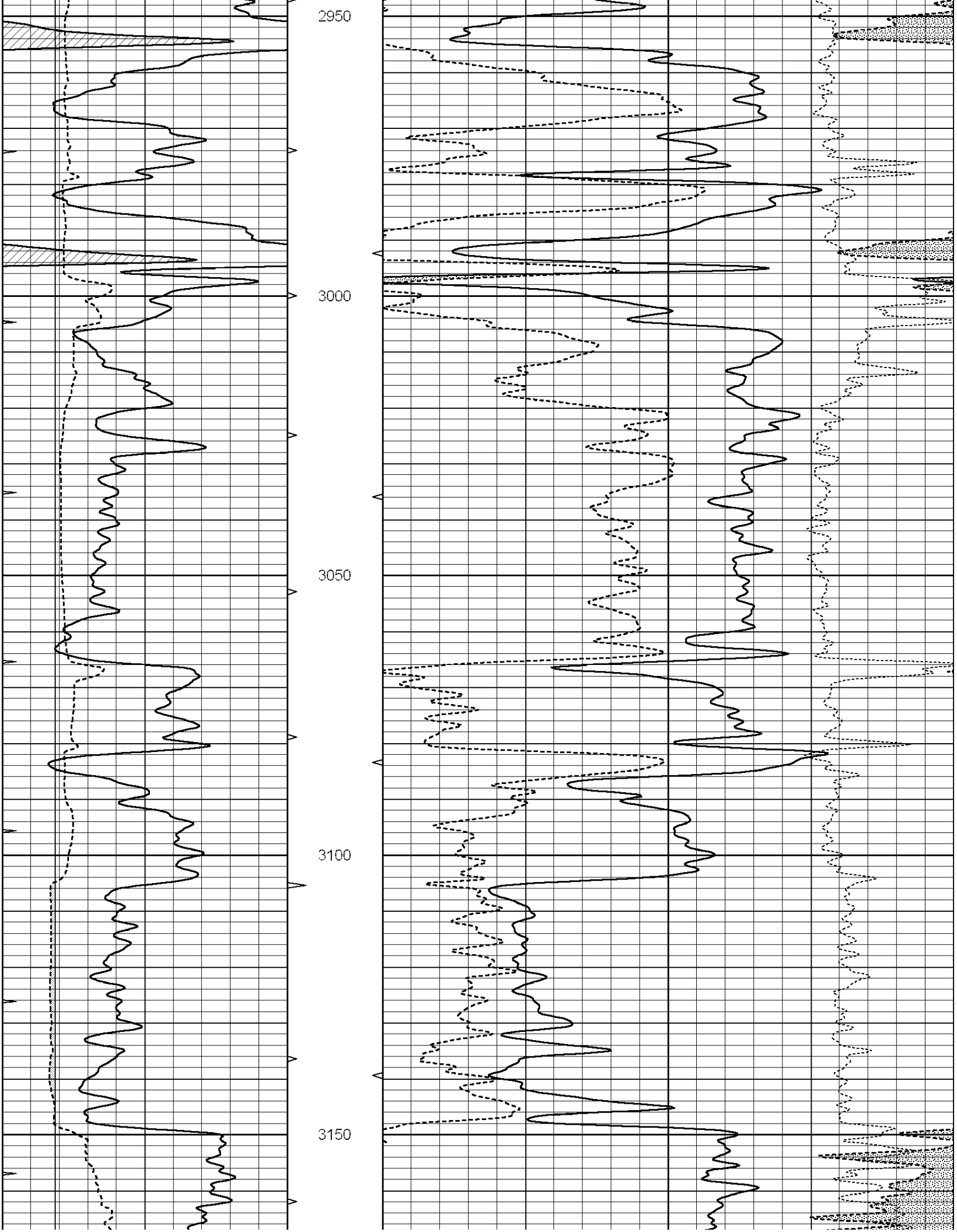
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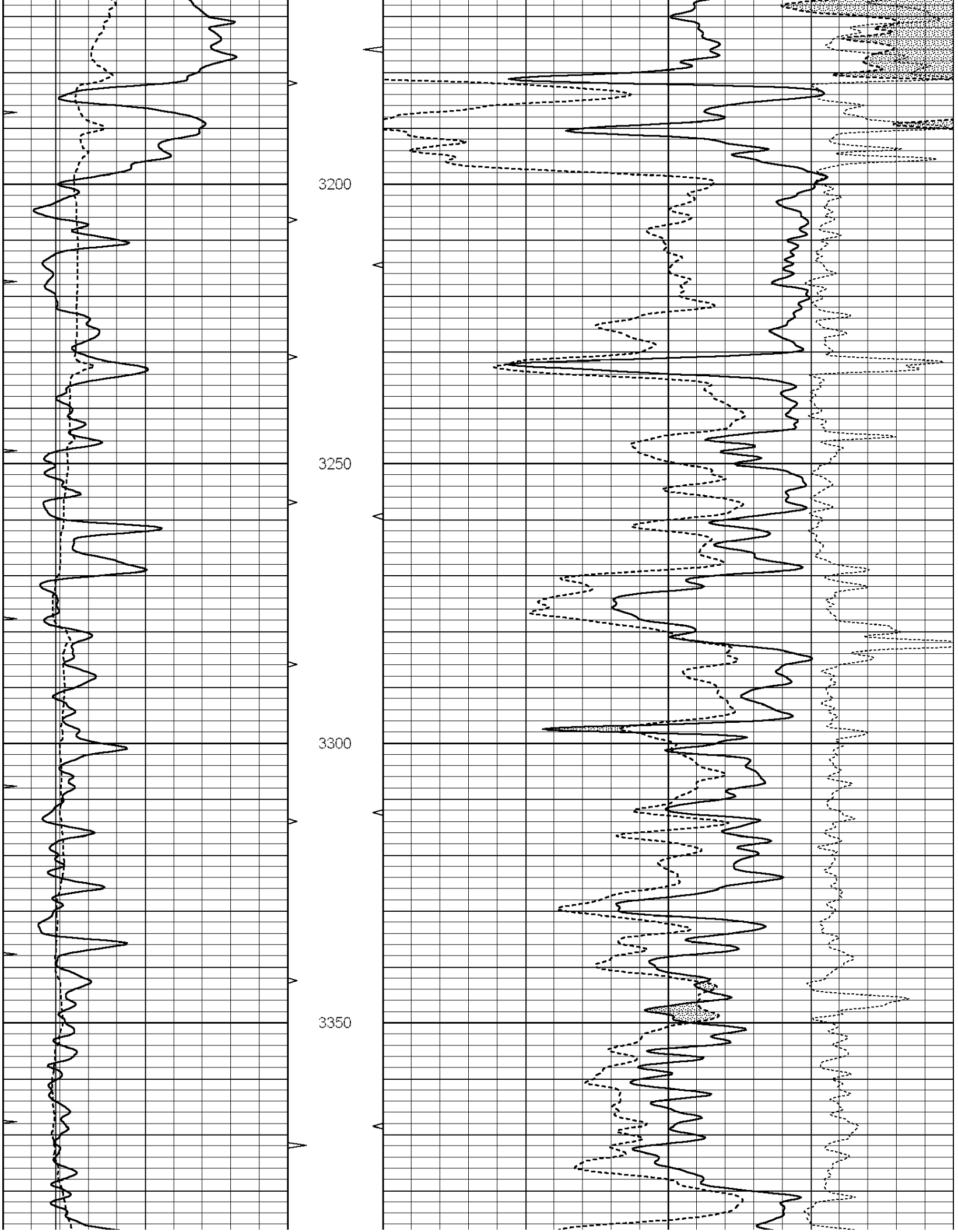
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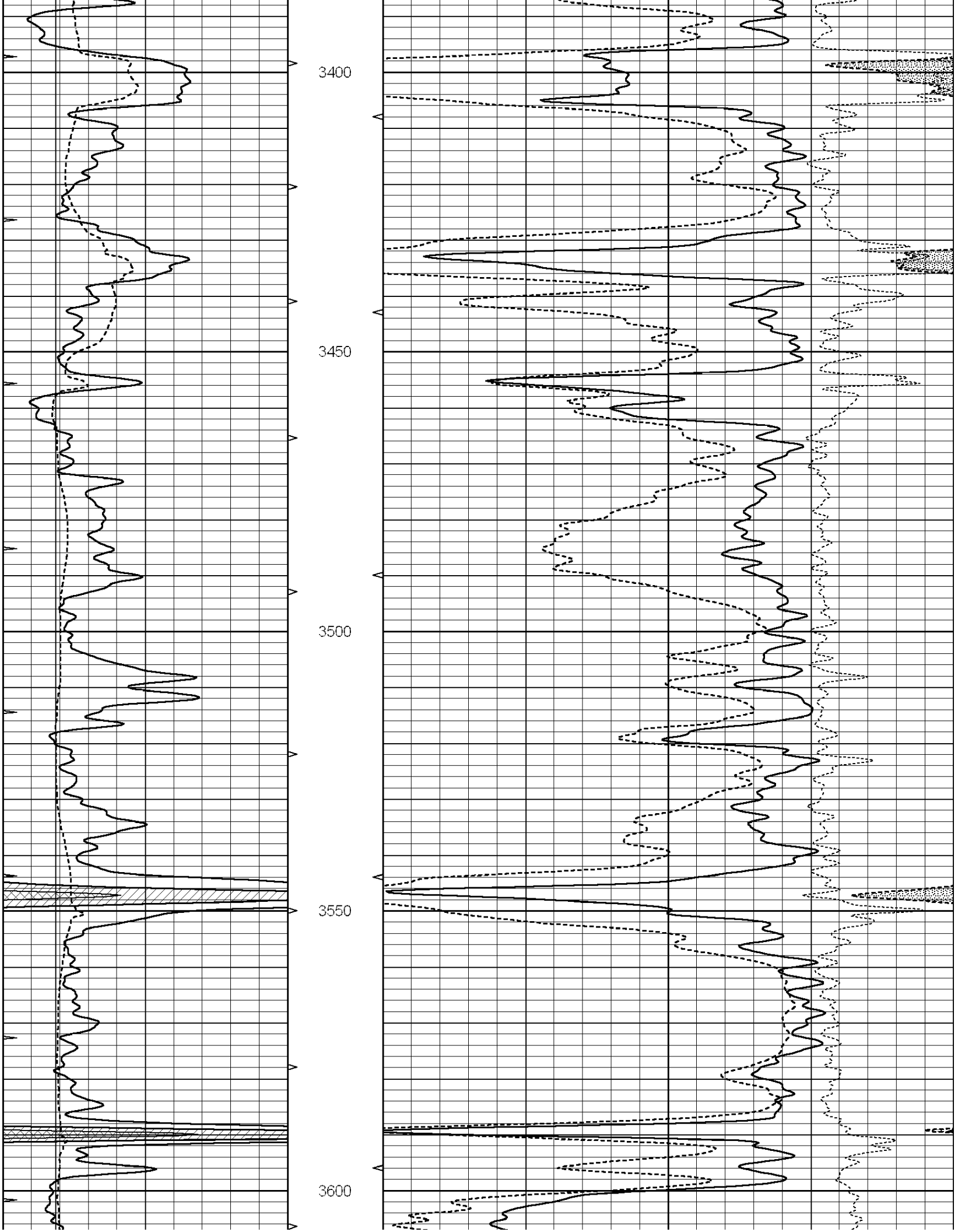
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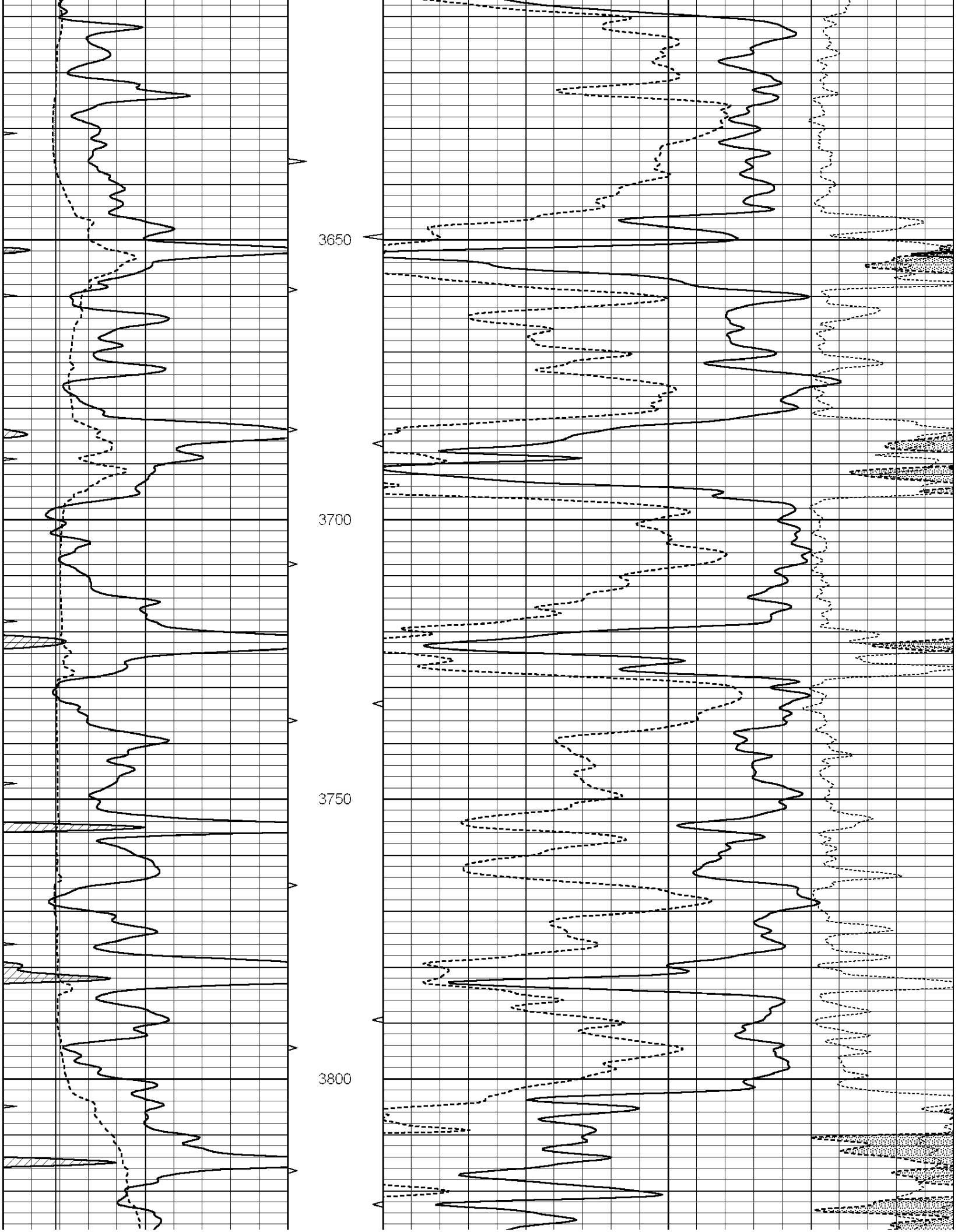
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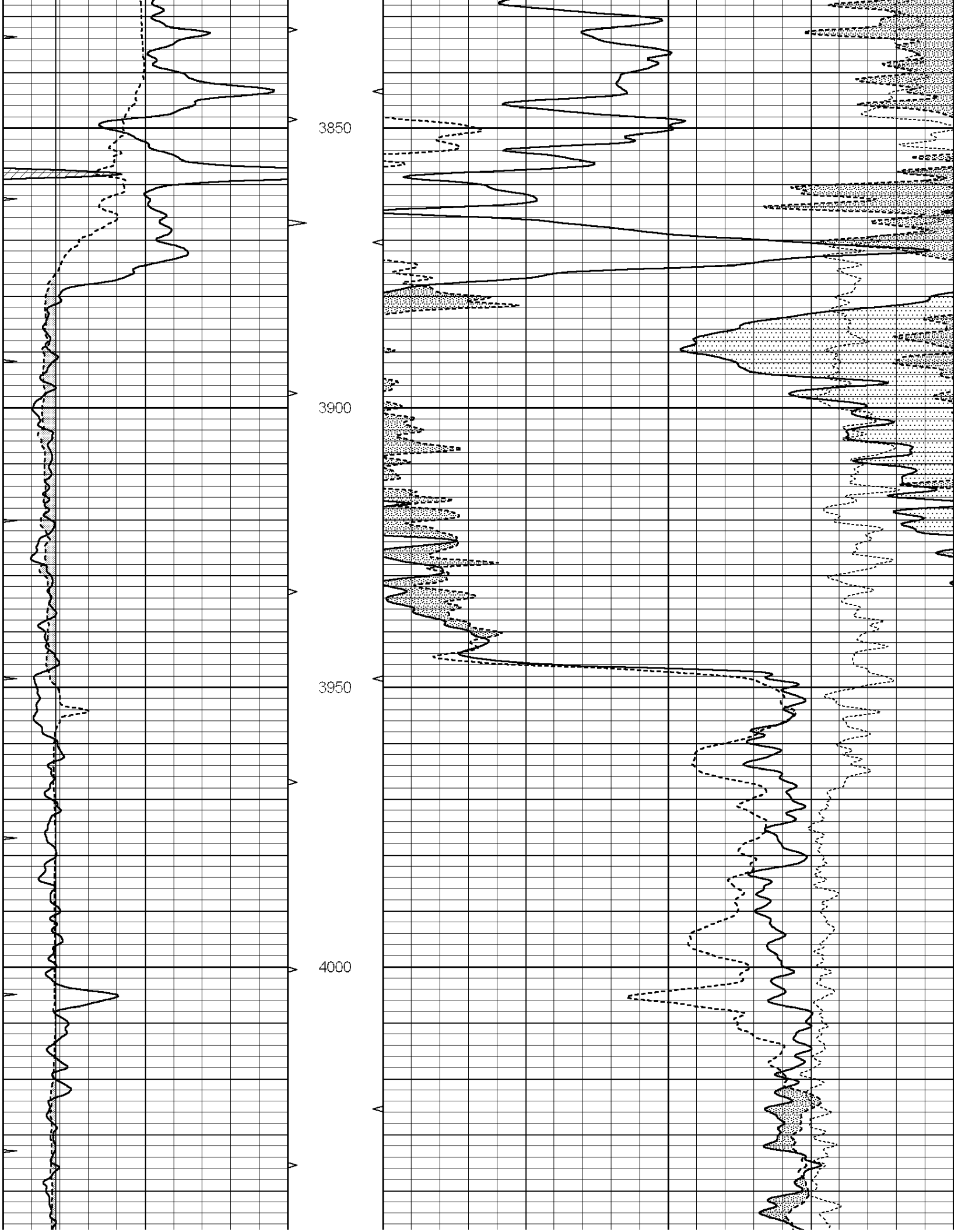
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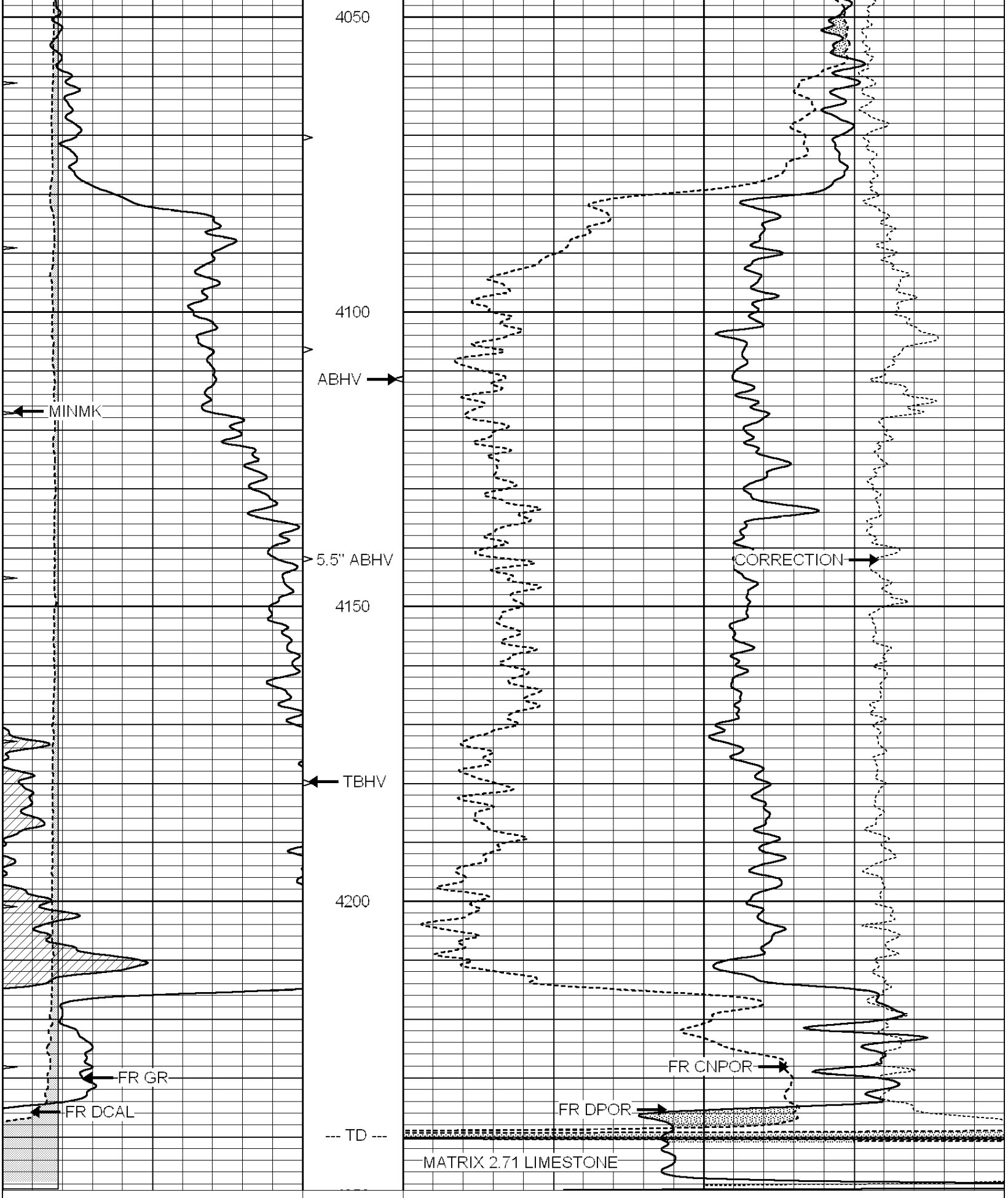

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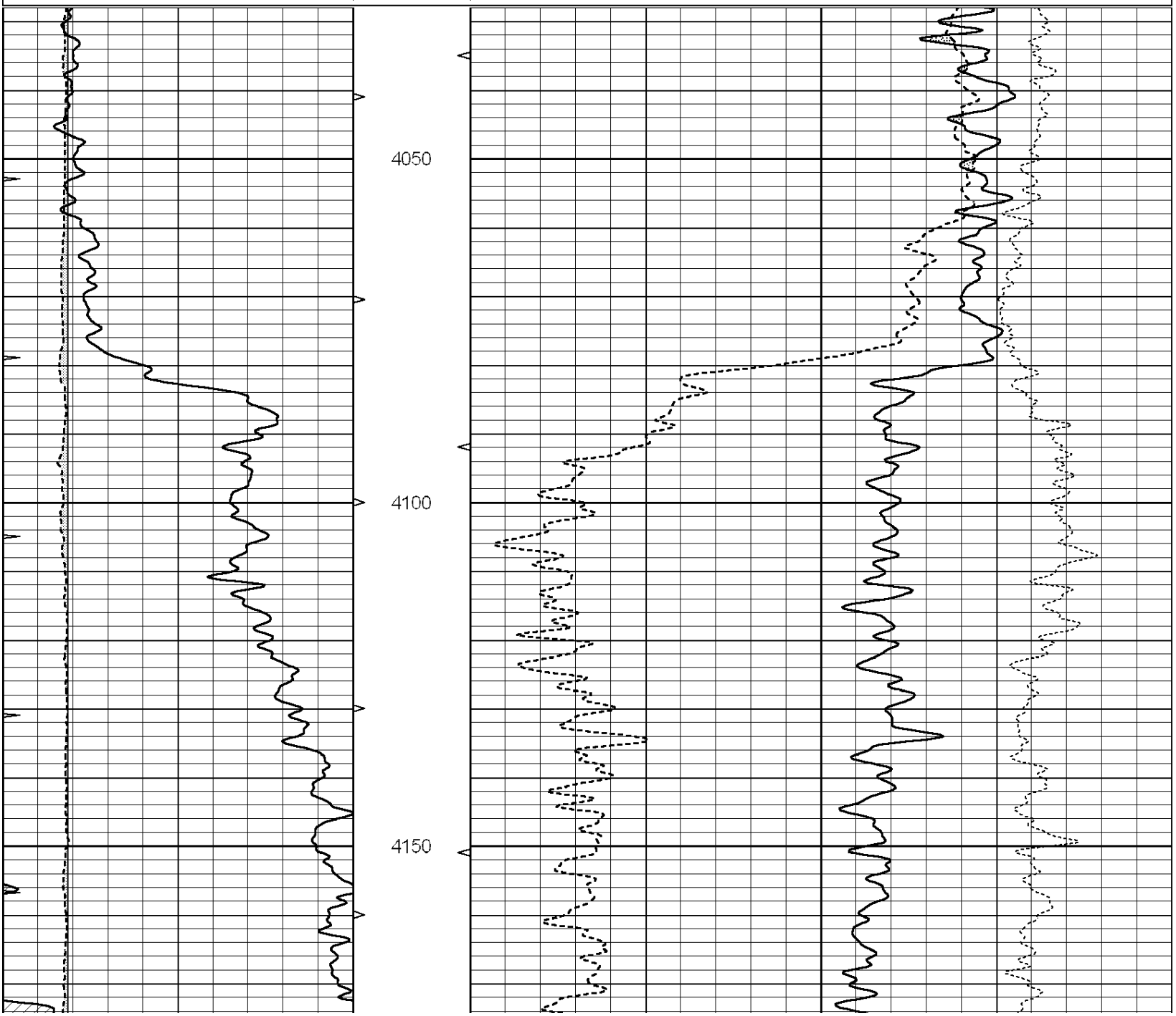
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10	
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25	
6	MELCAL (in)	16	0 (ft3) 10				

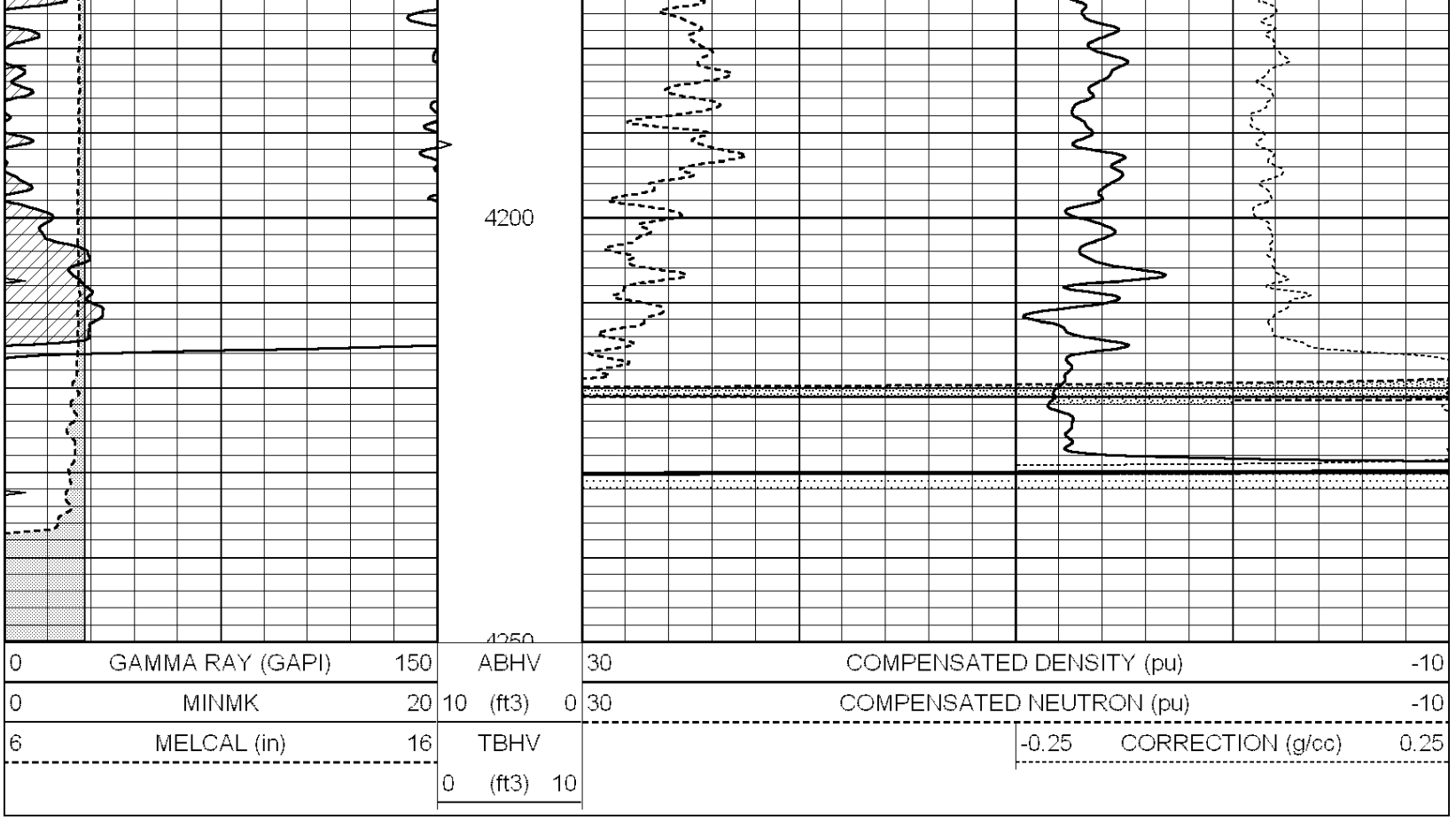
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	009114ddn.db
Dataset Pathname:	pass2AA
Presentation Format:	den_neu
Dataset Creation:	Thu May 10 08:56:43 2012
Charted by:	Depth in Feet scaled 1:240

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





Calibration Report

Database File: 009114ddn.db
Dataset Pathname: pass2AA
Dataset Creation: Thu May 10 08:56:43 2012

Dual Induction Calibration Report

Serial-Model:	PROBE9-DILG
Surface Cal Performed:	Thu May 10 02:31:00 2012
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	550.000	-8.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	540.000	-10.000
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		3970.000	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		

Compensated Density Calibration Report

Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Thu May 10 02:30:47 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.590	g/cc	282.16	435.01	cps

Spine Angle = 76.03 Density/Spine Ratio = 0.576

	Size		Reading	
Small Ring	9.80	in	3.50	V
Large Ring	14.00	in	5.30	V

Compensated Neutron Calibration Report

Serial Number:	NUE_2I
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:	GR5	
Tool Model:	OPEN	
Performed:	Thu May 10 03:32:03 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps