SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company RITCHIE EXPLORATION, INC.

Well #1 BEOUGHER - OTTLEY

Field WILDCAT

County GOVE State KANSAS

Location: API # : 15-063-22024

600' FSL & 145' FEL

SEC 12 TWP 13S RGE 31W

Other Services

CDL/CNL

Elevation

K.B. 2889
D.F.
G.L. 2879

Permanent Datum GROUND LEVEL Elevation 2879
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Date	8-5-12		
Run Number	ONE		
Depth Driller	4700		
Depth Logger	4701		
Bottom Logged Interval	4699		
Top Log Interval	00		
Casing Driller	225		
Casing Logger	225		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 63		
pH / Fluid Loss	11.5 / 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.20 @ 80F		
Rmf @ Meas. Temp	0.90 @ 80F		
Rmc @ Meas. Temp	1.44 @ 80F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.790 @ 122F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	9:30 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MIKE ENGELBRECHT		

Company RITCHIE EXPLORATION, INC.
Well #1 BEOUGHER - OTTLEY
Field WILDCAT
County GOVE
State KANSAS

<<< Fold Here >>>

Comments

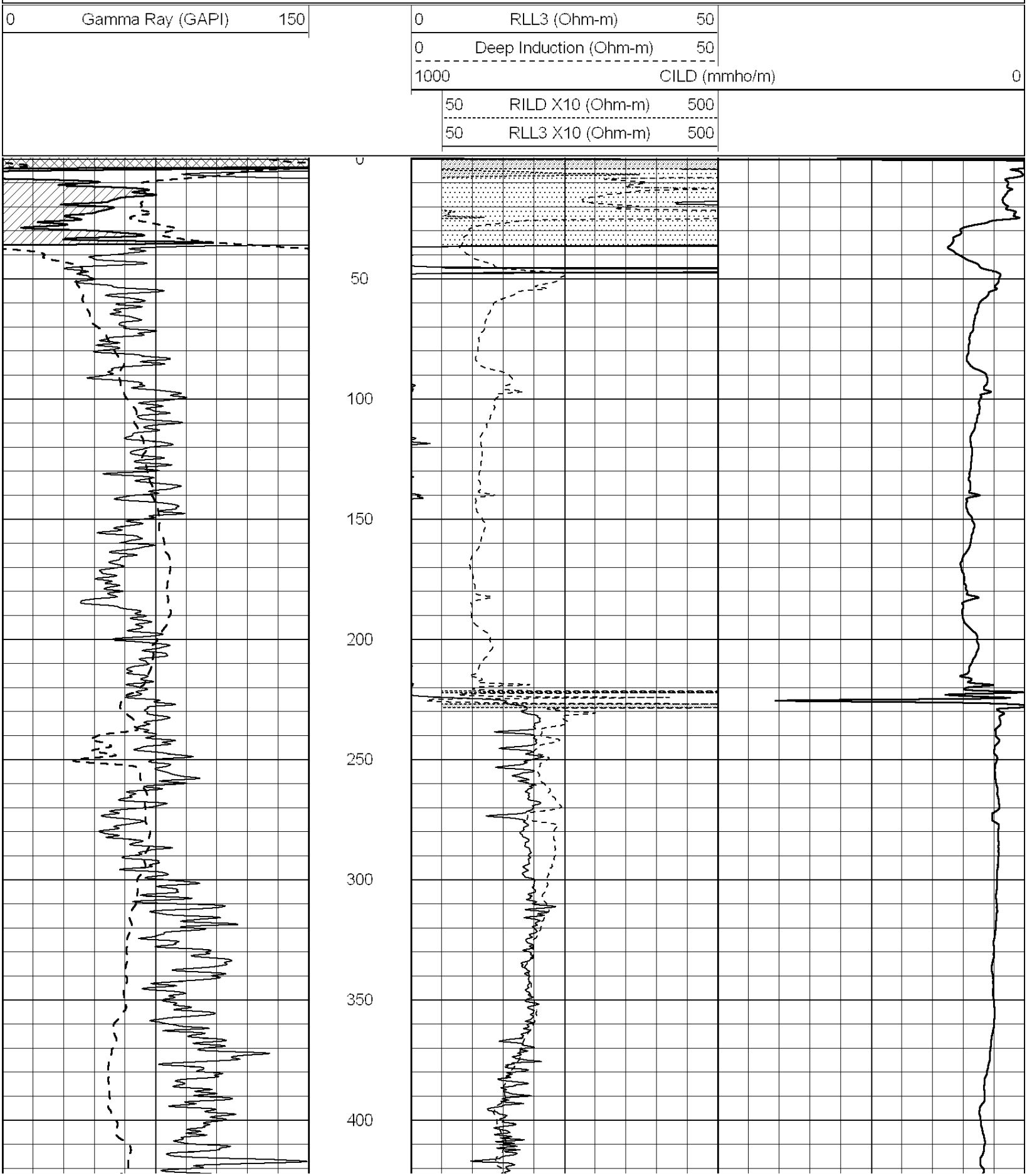
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: OAKLEY, 11S TO GOVE RD., 8E TO RD. #22, 2S, W INTO.

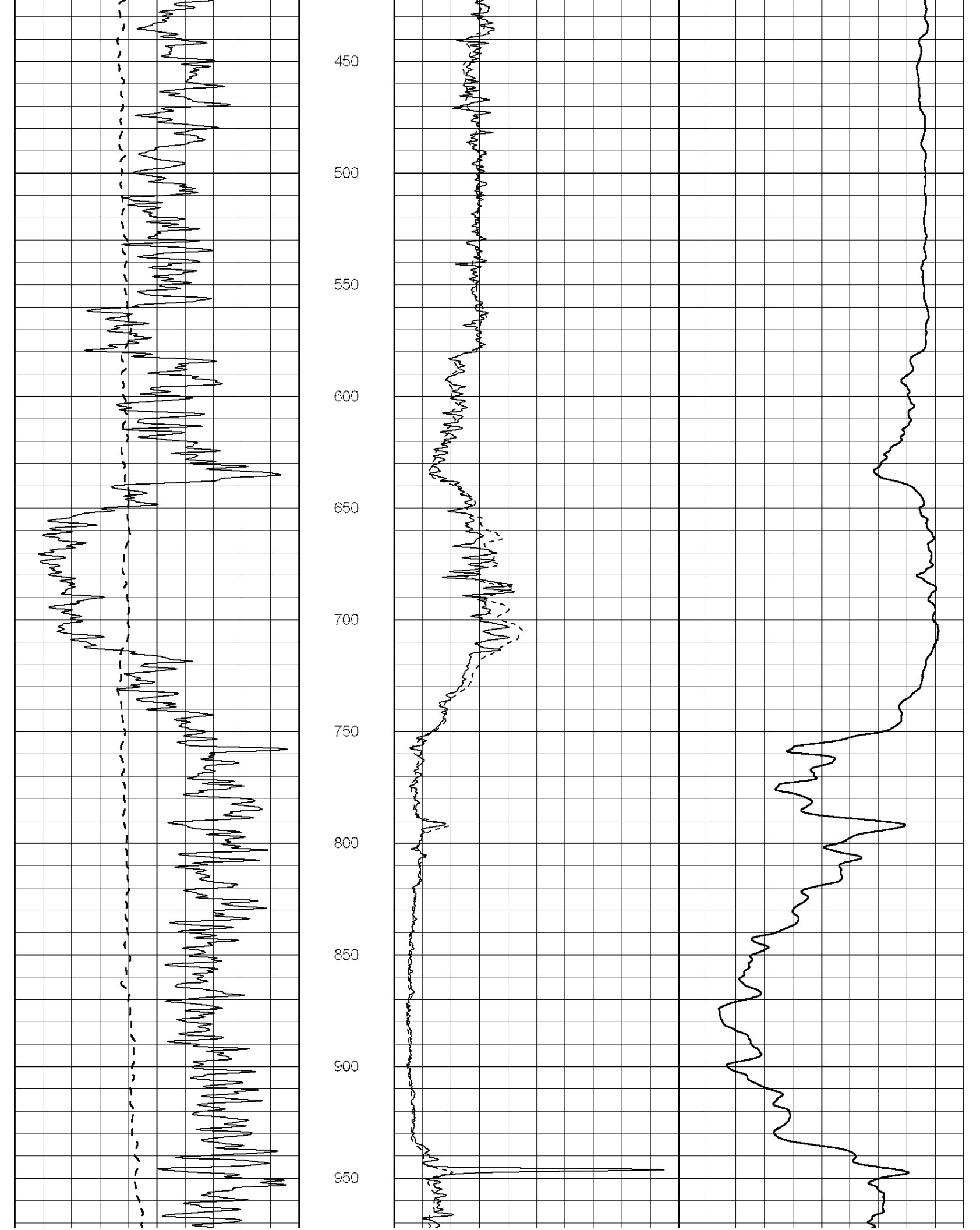
MAIN SECTION

SUPERIOR
Hays,

Kansas

Database File:	009566ddn.db
Dataset Pathname:	pass3.2
Presentation Format:	dil2
Dataset Creation:	Sun Aug 05 11:47:32 2012
Charted by:	Depth in Feet scaled 1:600

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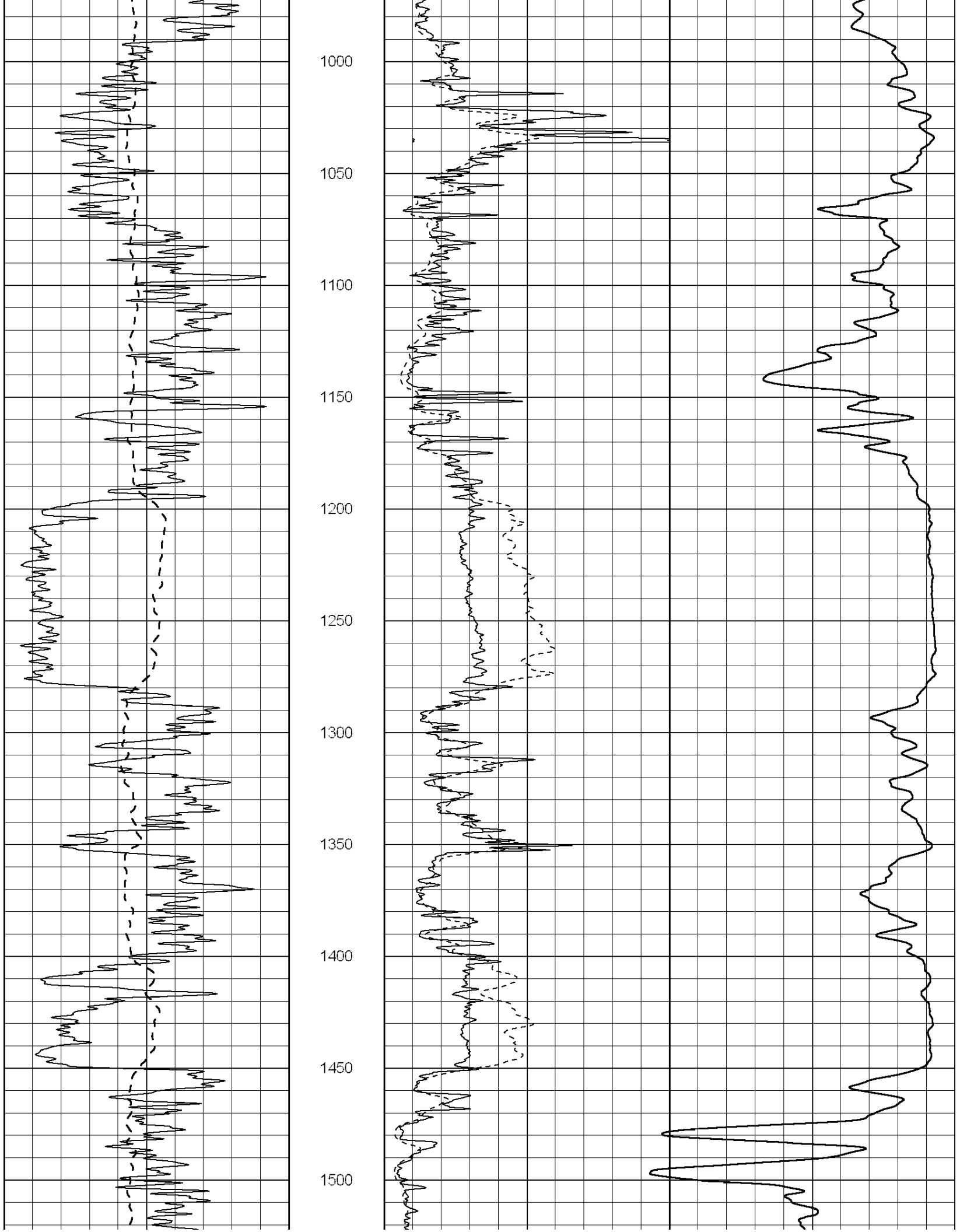
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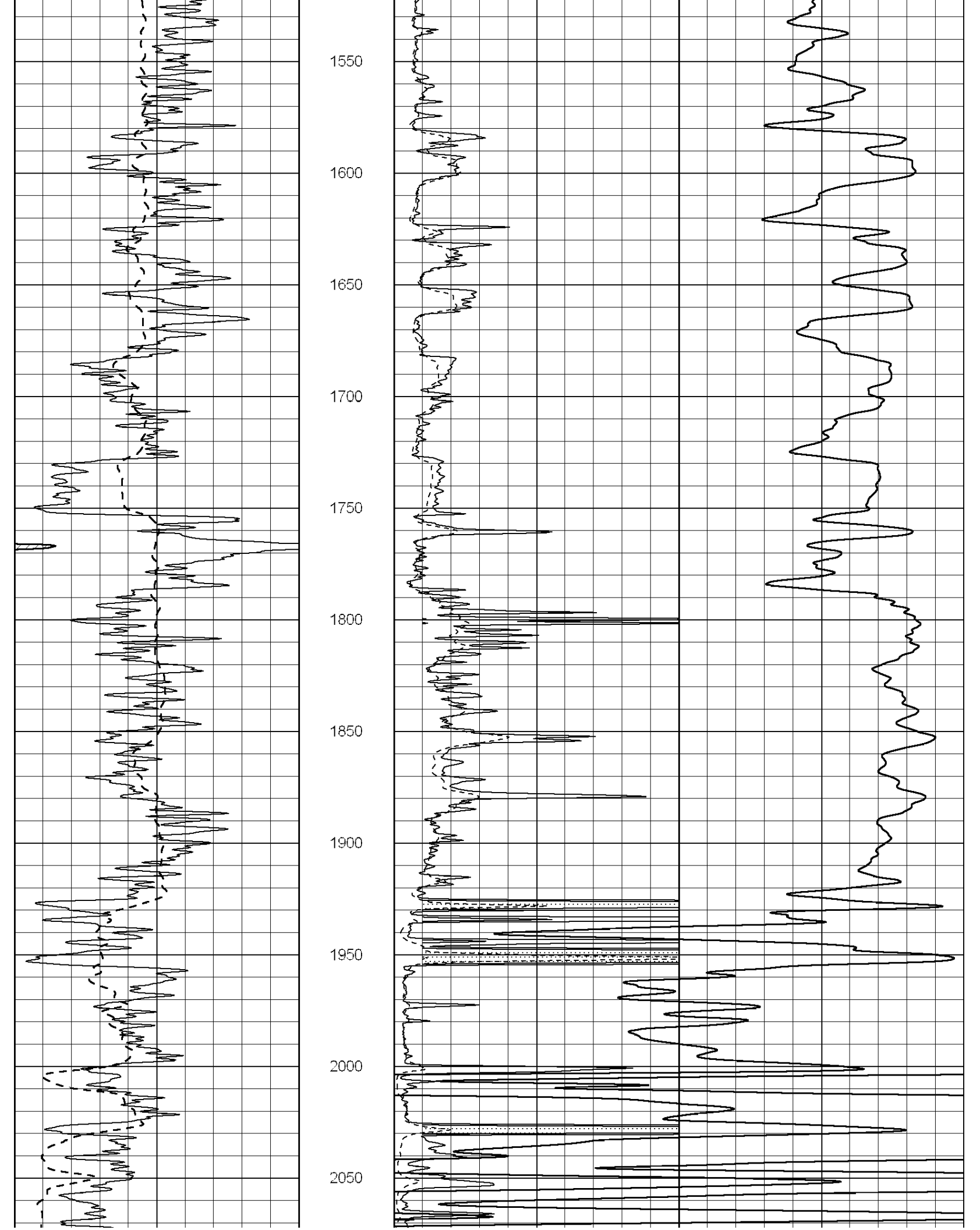
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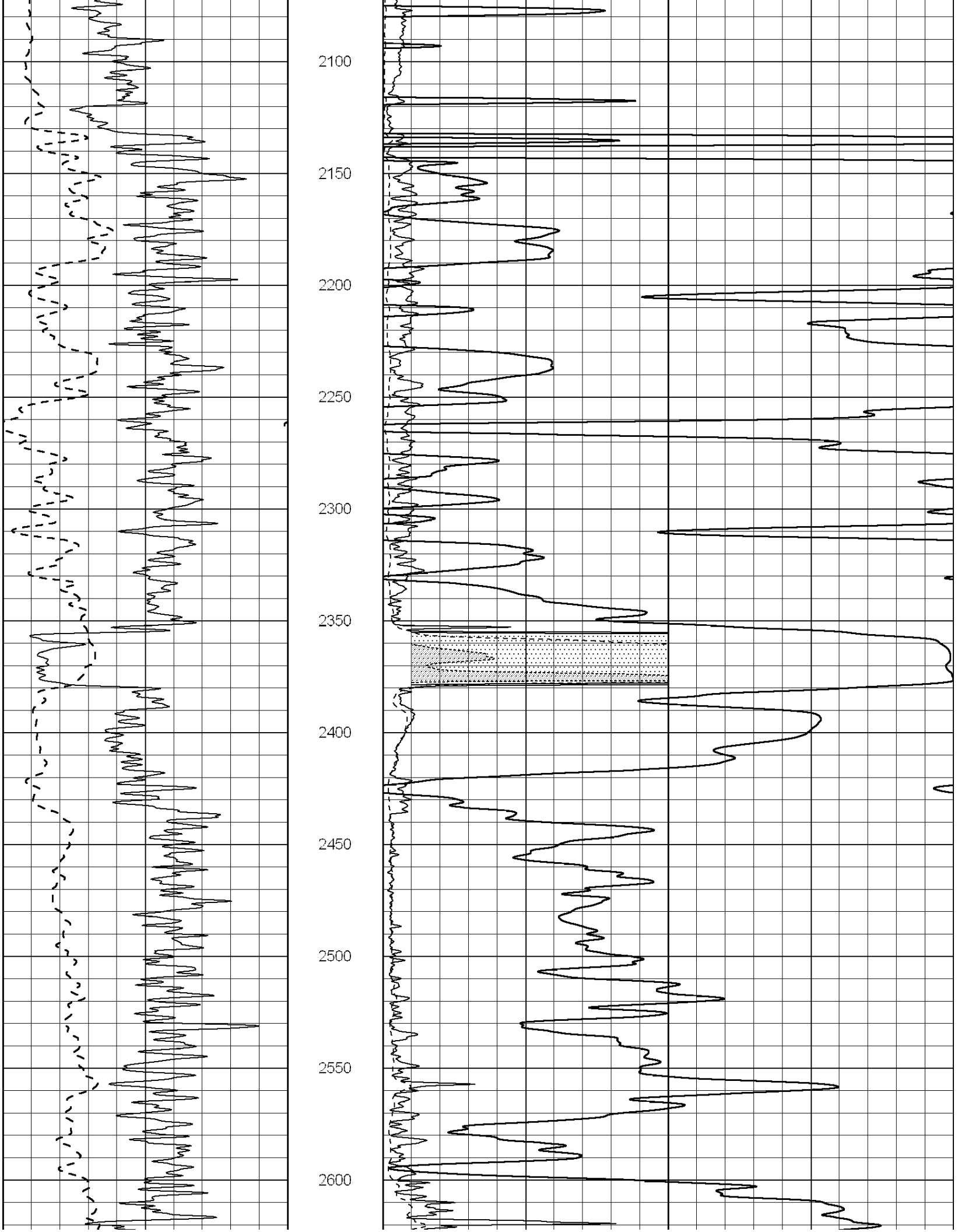
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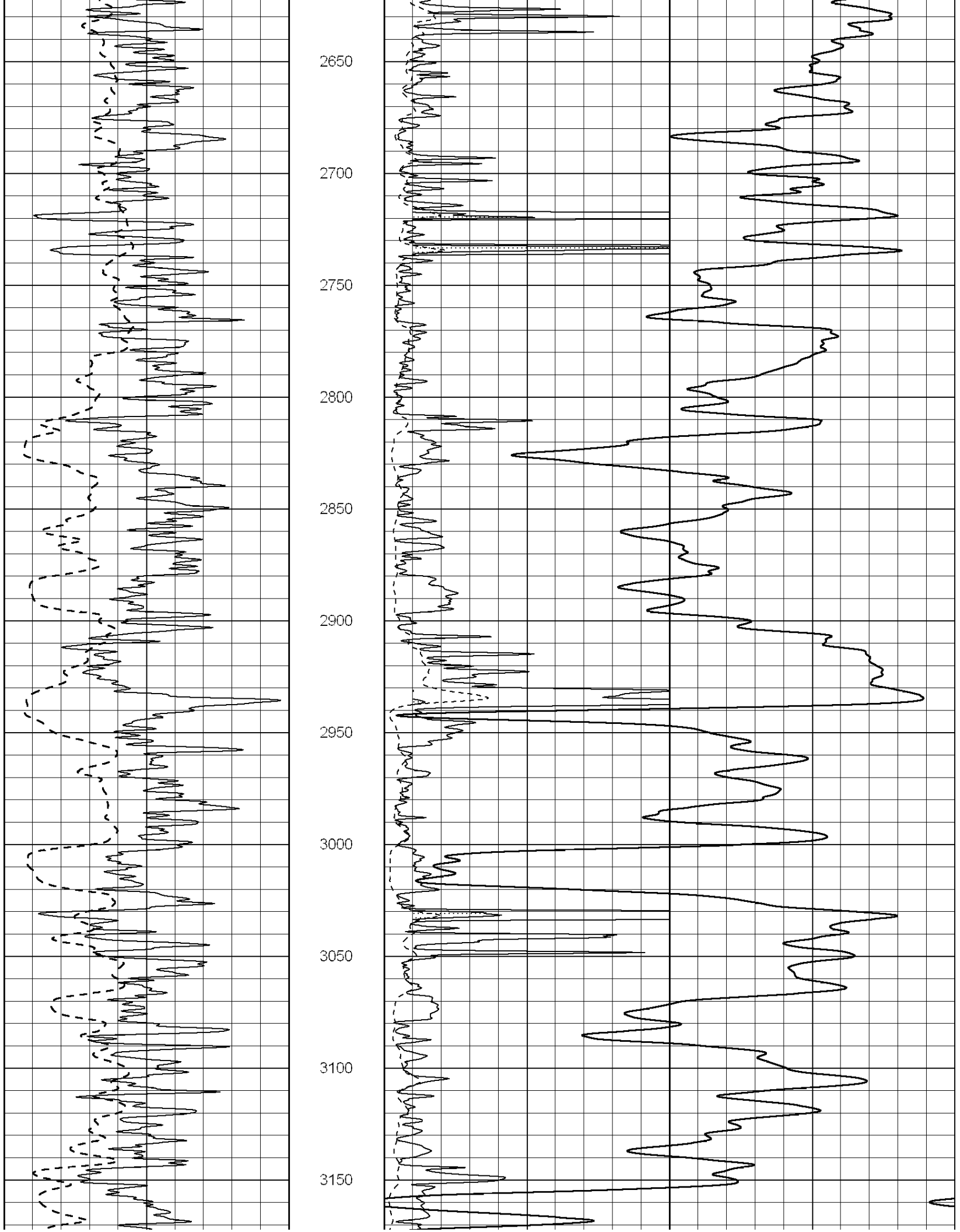
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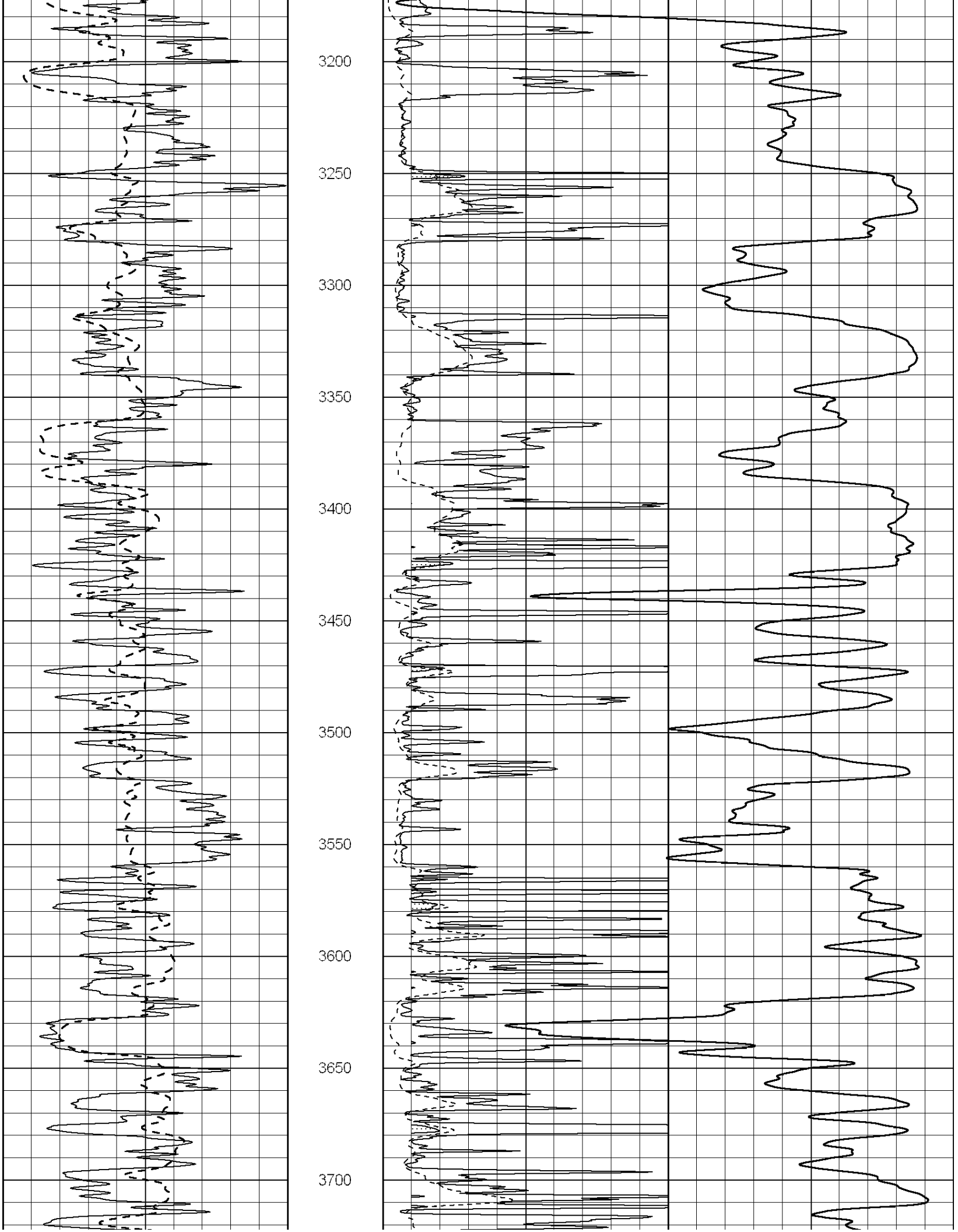
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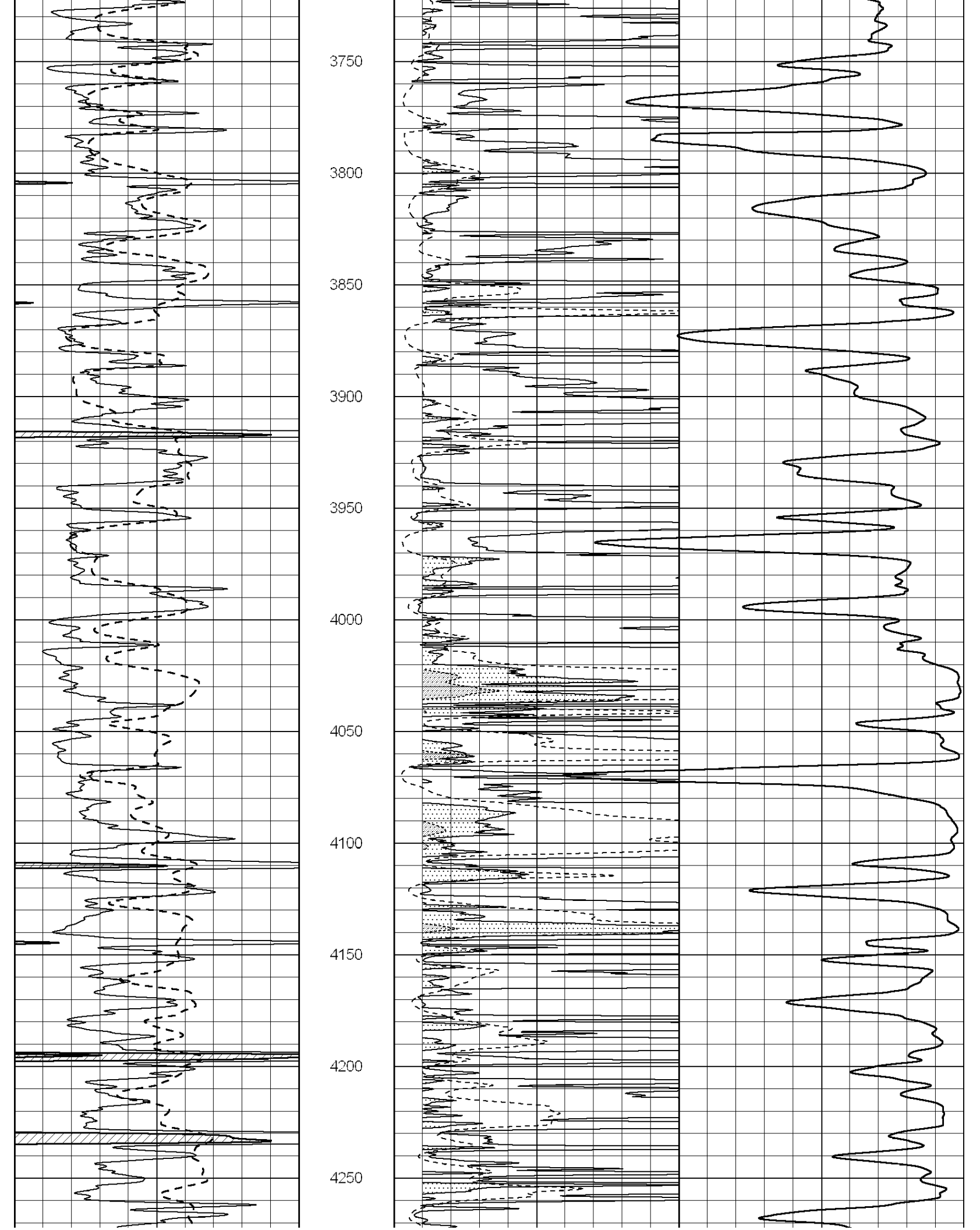
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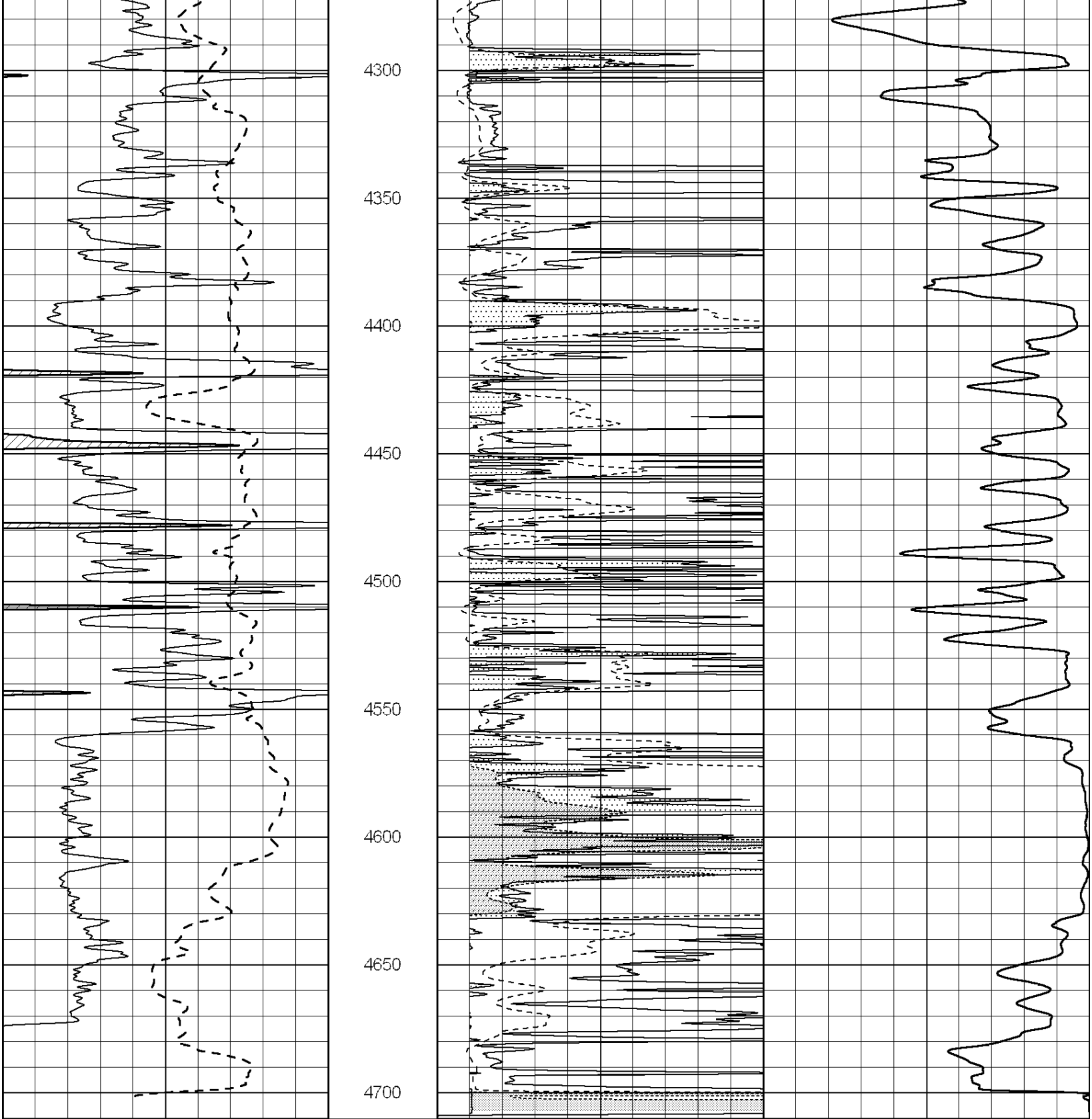


SUPERIOR WELL SERVICES

SUPERIOR

Hays,

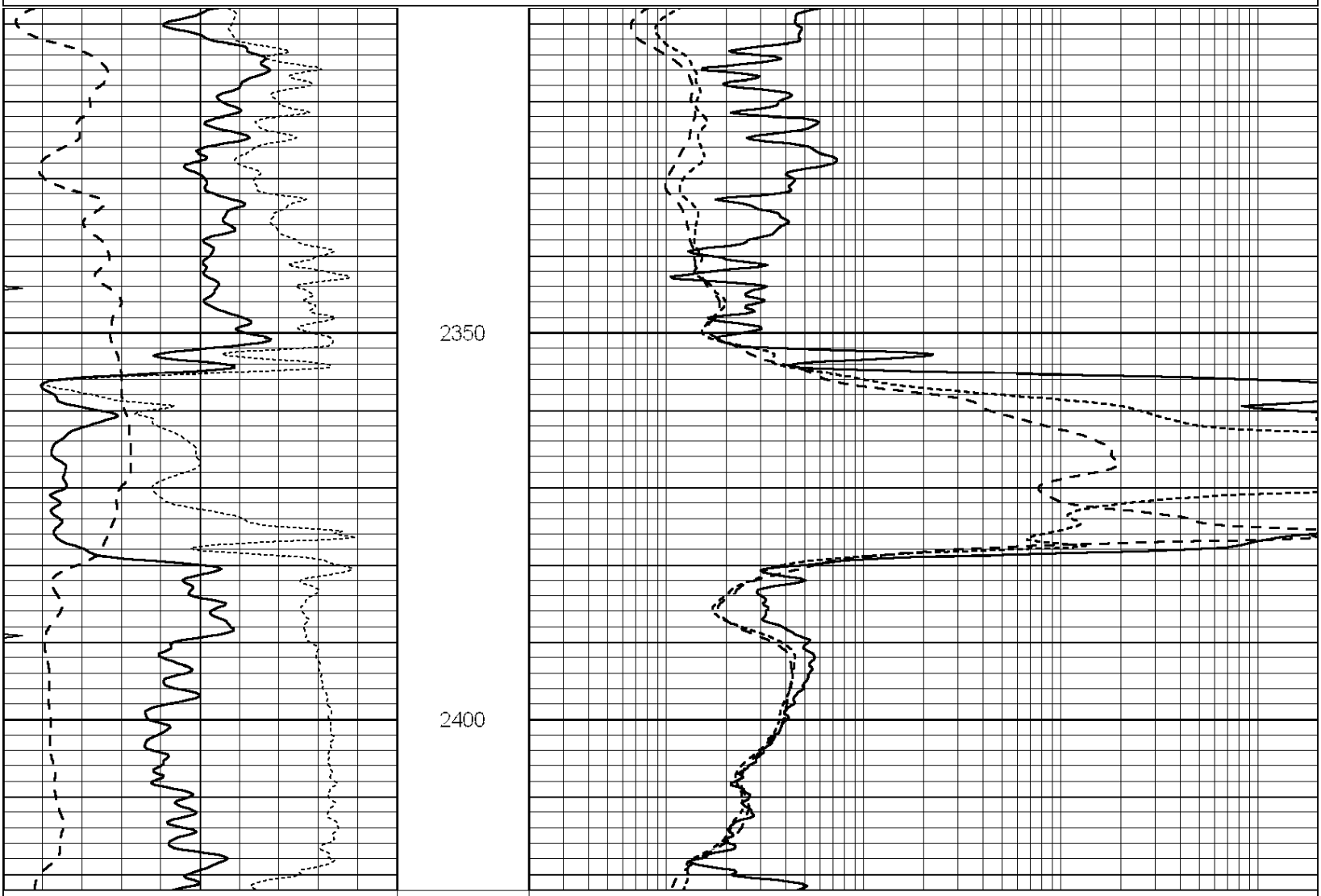
MAIN SECTION

Kansas

Database File:	009566ddn.db
Dataset Pathname:	pass3.2
Presentation Format:	dil
Dataset Creation:	Sun Aug 05 11:47:32 2012
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

SUPERIOR
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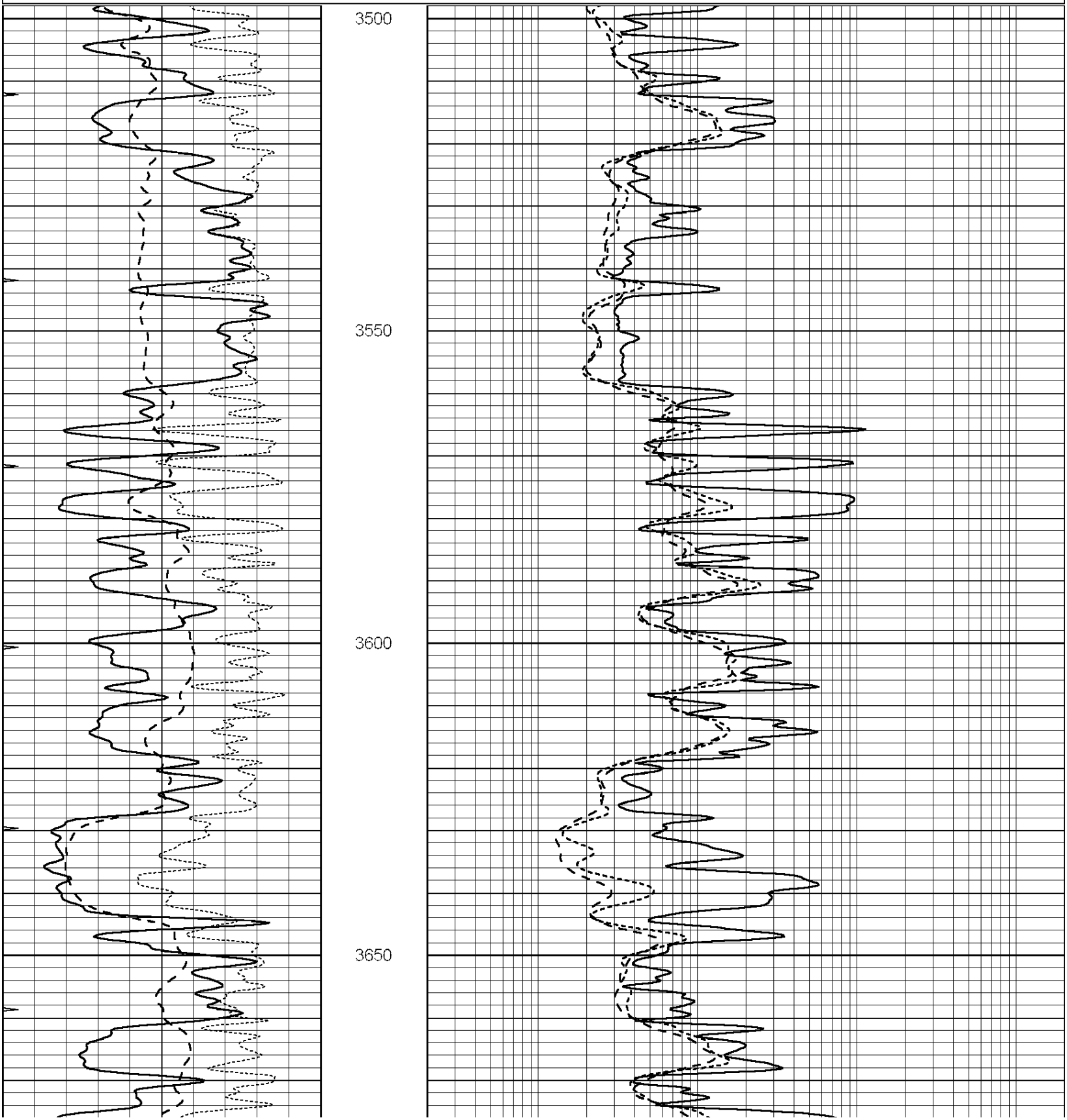
Kansas

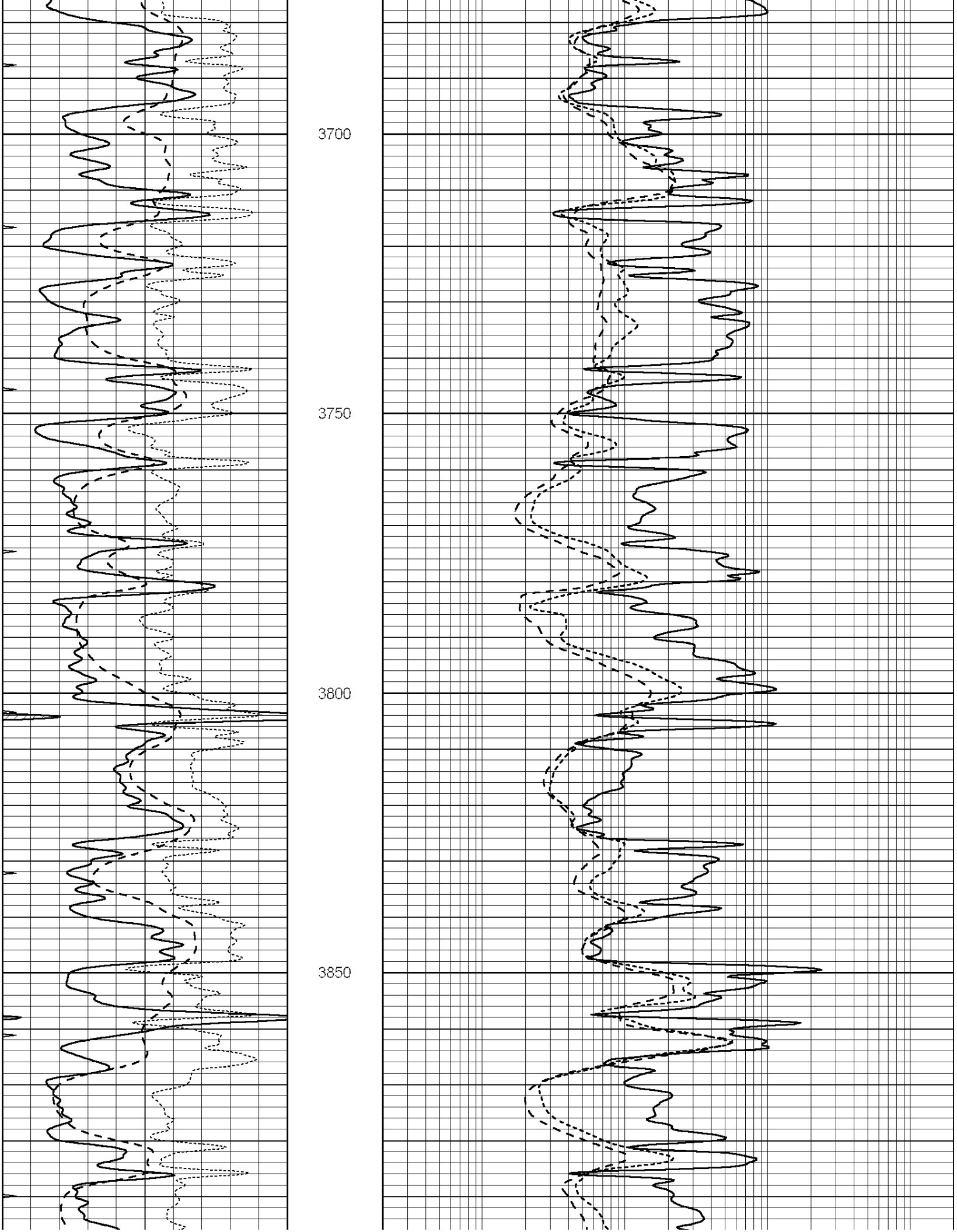
MAIN SECTION

Database File:	009566dlri.db
Dataset Pathname:	pass3.2
Presentation Format:	dil
Dataset Creation:	Sun Aug 05 11:47:32 2012
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

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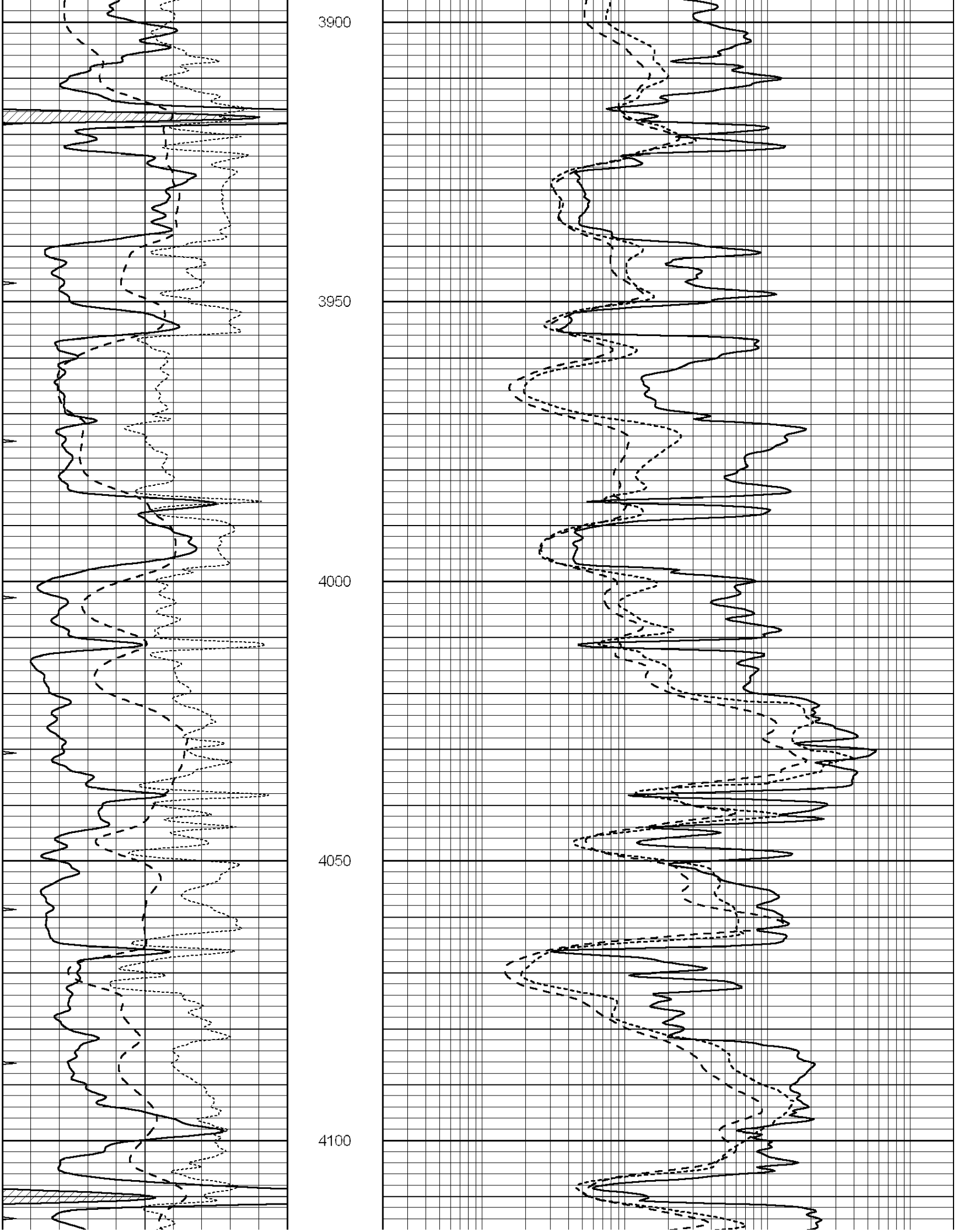
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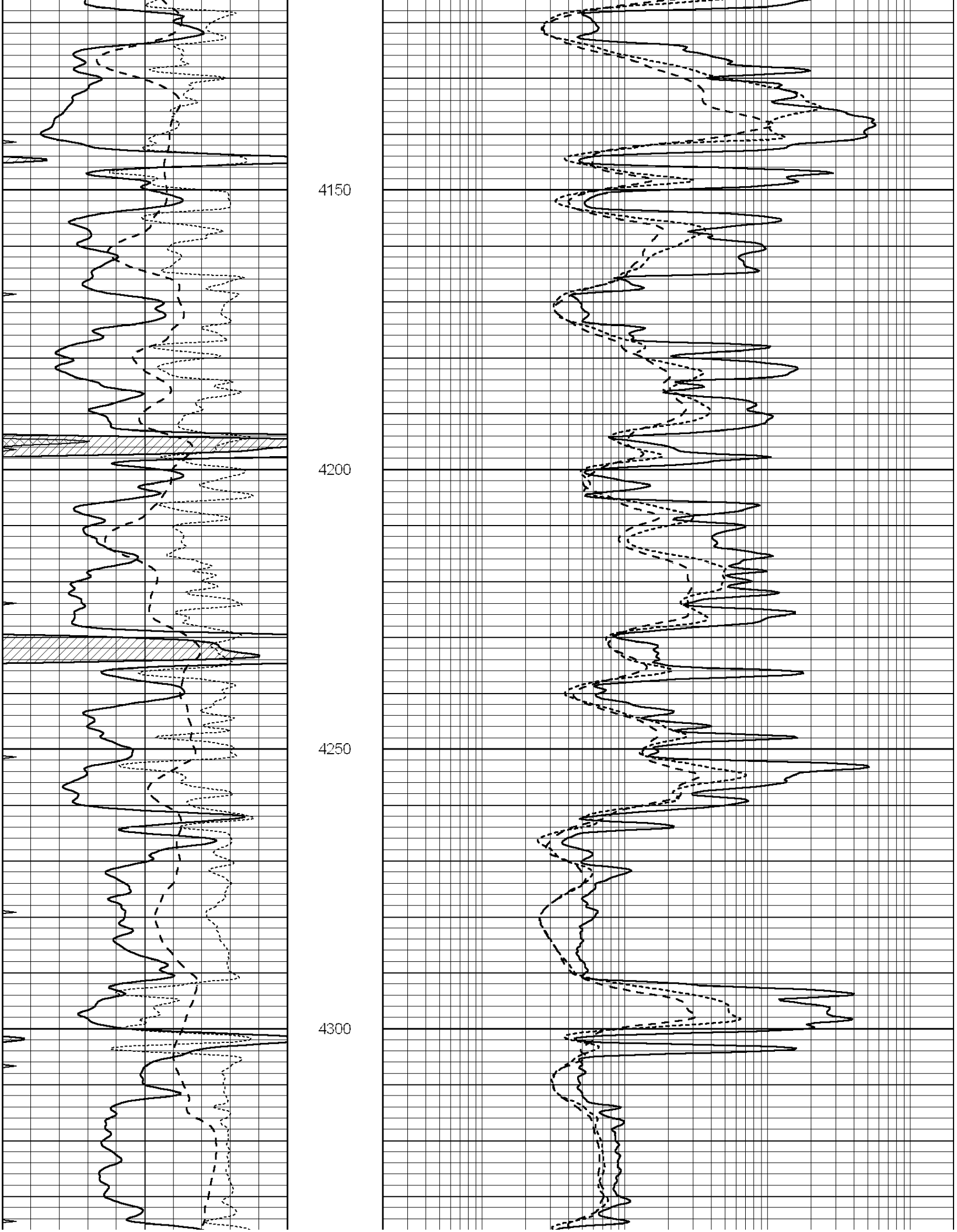
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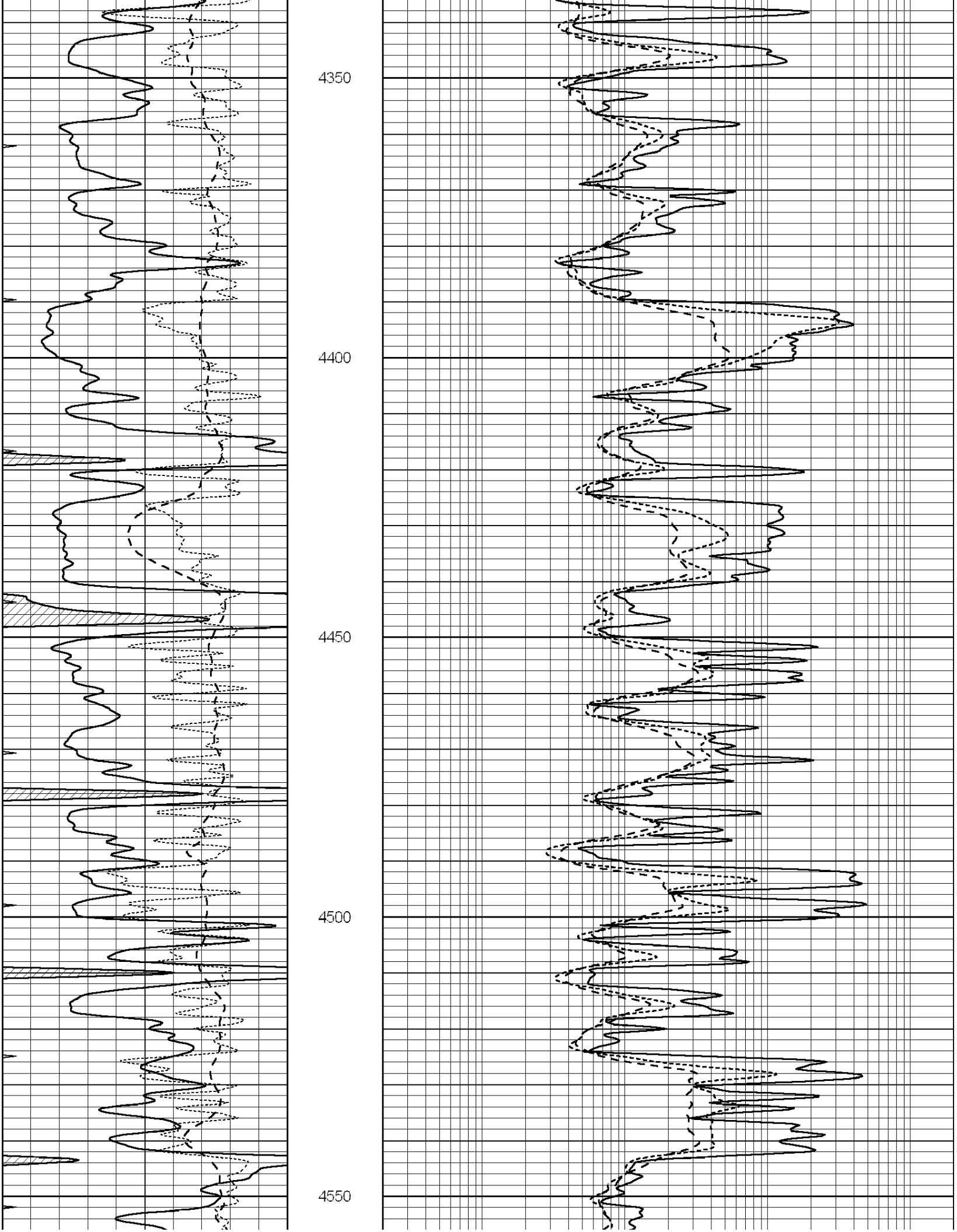
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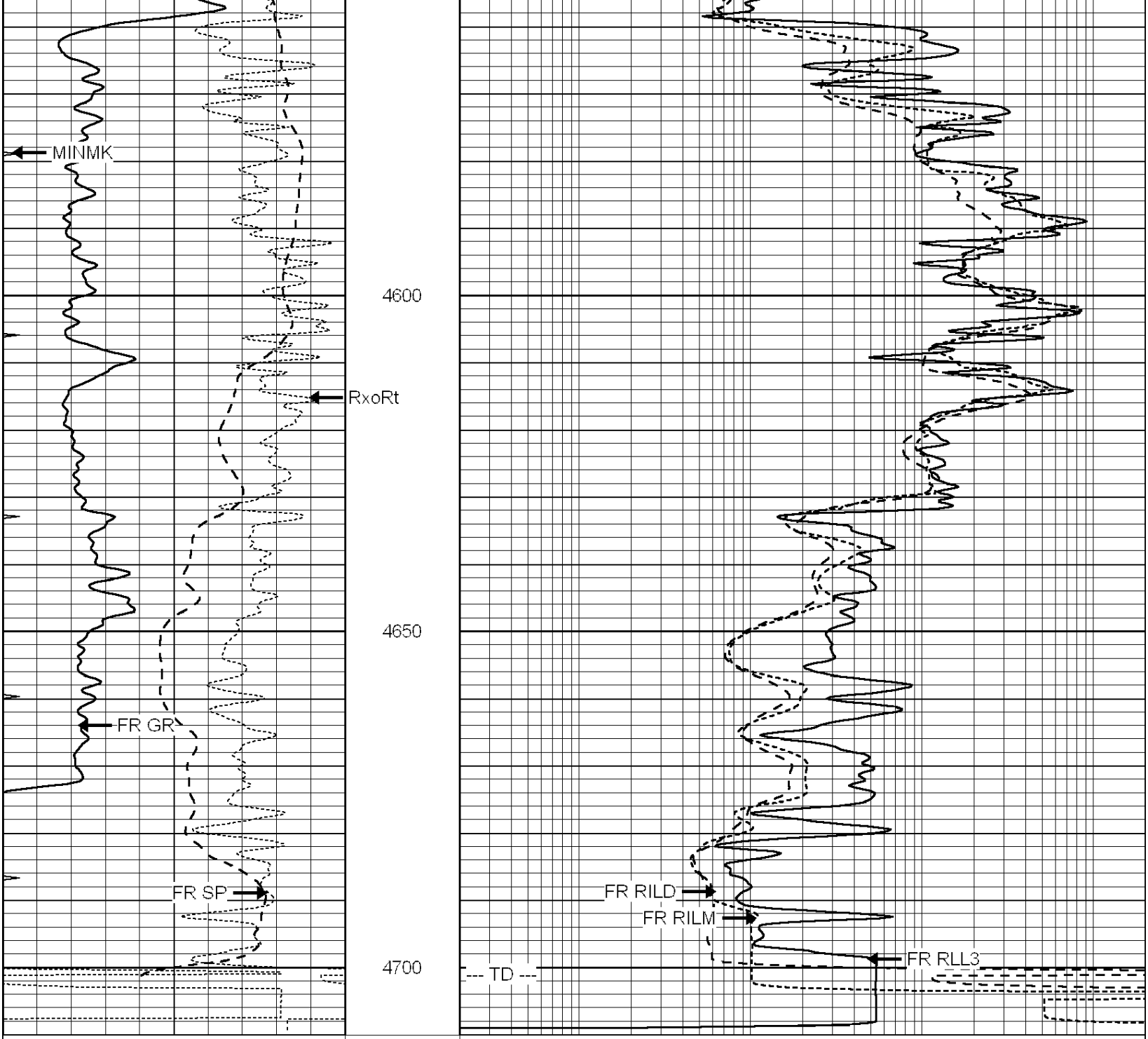

SUPERIOR WELL SERVICES

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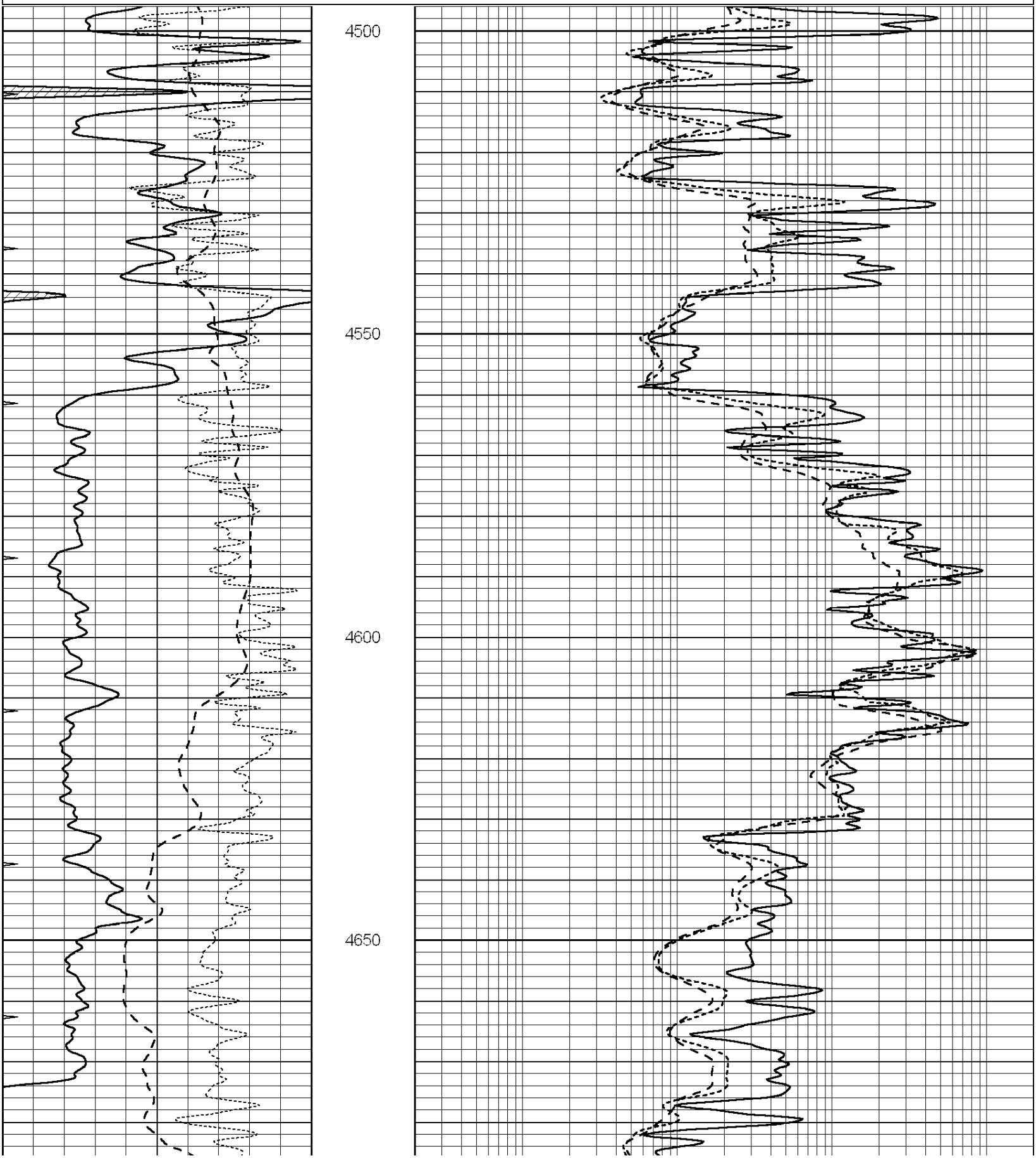
REPEAT SECTION

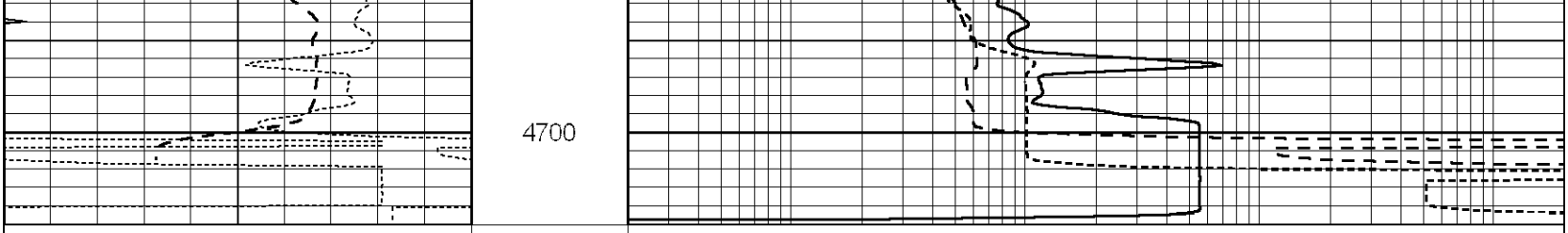
Database File:	009566ddn.db
Dataset Pathname:	pass2.2
Presentation Format:	dil
Dataset Creation:	Sun Aug 05 11:53:17 2012

Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

Calibration Report

Database File: 009566ddn.db
Dataset Pathname: pass3.2
Dataset Creation: Sun Aug 05 11:47:32 2012

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Sun Aug 05 09:49:33 2012

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	500.000	-10.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	530.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR2-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Sun Aug 05 10:07:13 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1203.63	642.89	cps
Aluminum	2.600	g/cc	267.51	439.63	cps

Spine Angle = 75.82 Density/Spine Ratio = 0.574

	Size		Reading	
Small Ring	8.00	in	4.55	V
Large Ring	14.00	in	6.86	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

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:	GR2	
Tool Model:	OPEN	
Performed:	Sun Aug 05 10:02:18 2012	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	740.0	cps
Sensitivity:	0.7500	GAPI/cps