SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company RITCHIE EXPLORATION, INC.

Well #1 WILSON 10A

Field

County GOVE State KANSAS

Location: API # : 15-063-21909

1425' FNL 1890' FEL

SEC 10 TWP 12S RGE 31W

Other Services

CDL/CNL

Elevation

K.B. 2965
D.F.
G.L. 2955

Permanent Datum GROUND LEVEL Elevation 2955
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Company RITCHIE EXPLORATION, INC.
Well #1 WILSON 10A
Field
County GOVE
State KANSAS

Date	5-19-11		
Run Number	ONE		
Depth Driller	4710		
Depth Logger	4710		
Bottom Logged Interval	4708		
Top Log Interval	00		
Casing Driller	219		
Casing Logger	219		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1 / 51		
pH / Fluid Loss	10.5 / 6.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.40 @ 90F		
Rmf @ Meas. Temp	1.05 @ 90F		
Rmc @ Meas. Temp	1.68 @ 90F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	1.03 @ 122F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2:00 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	TED JOCHEM		

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Comments

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: I-70 & CAMPUS RD., 5 1/2S, 1/2W, S INTO.

MAIN SECTION

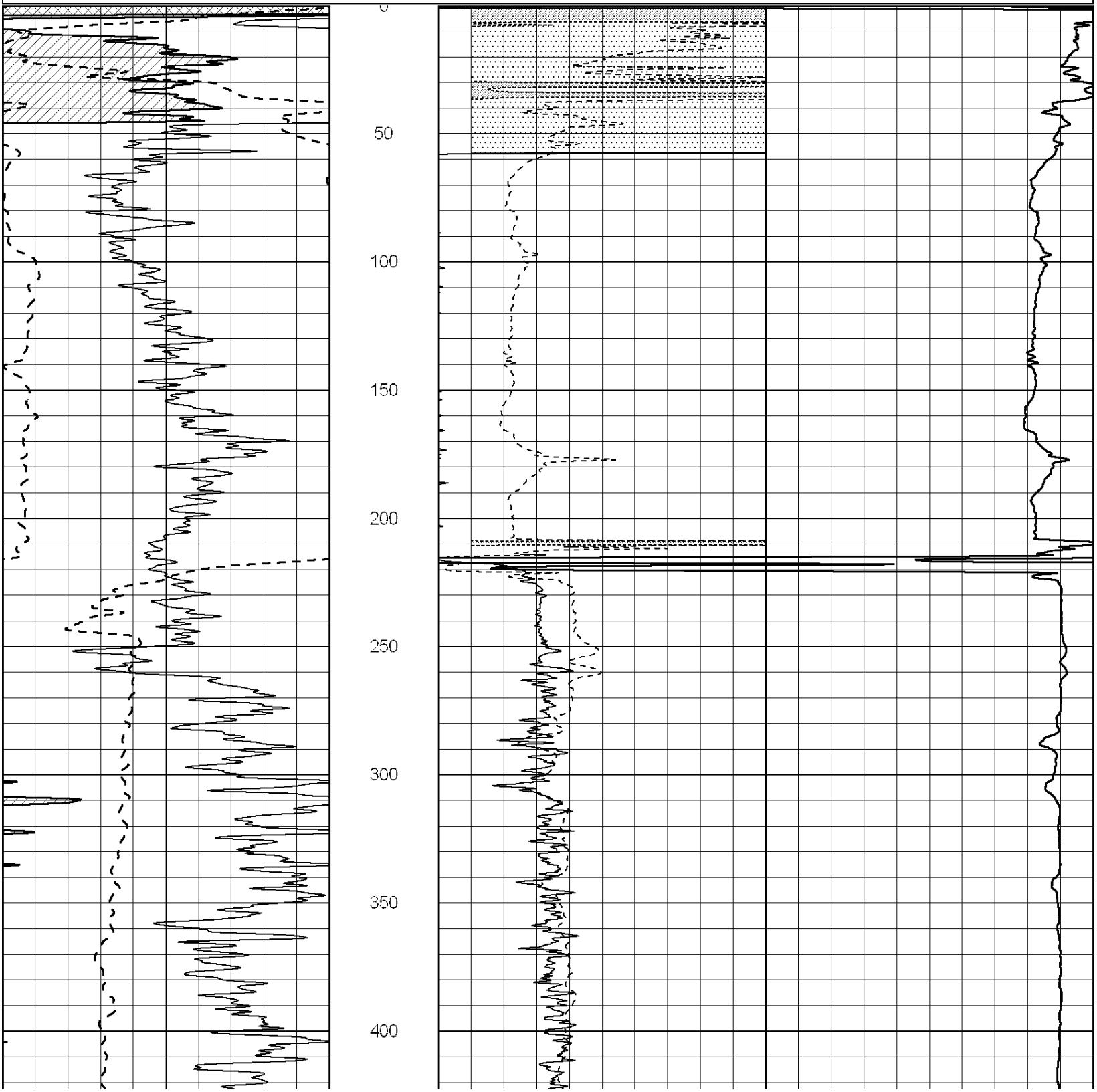
SUPERIOR
Hays,

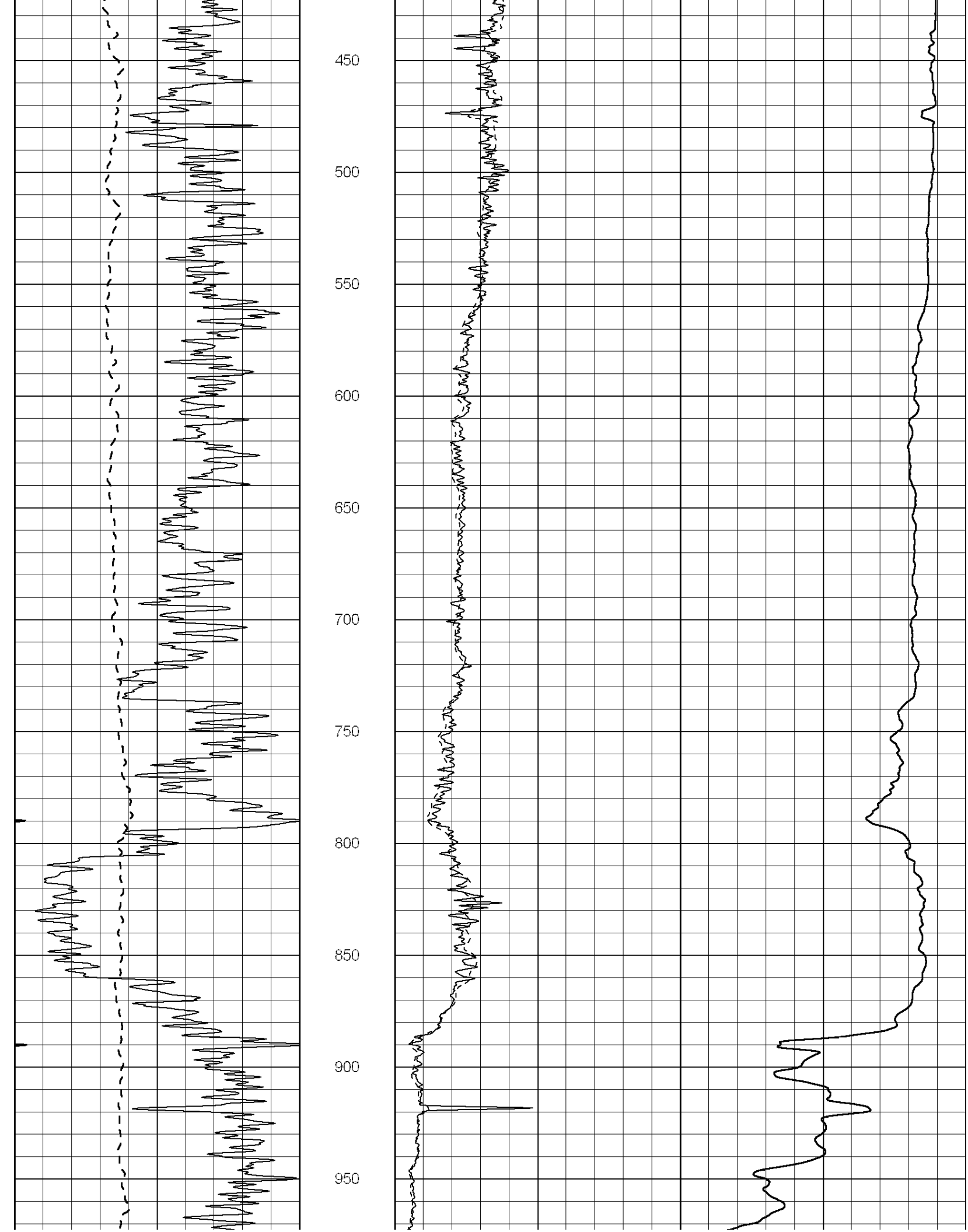
Kansas

Database File:	006921ddn.db
Dataset Pathname:	pass3.1A
Presentation Format:	dil2
Dataset Creation:	Thu May 19 04:46:18 2011
Charted by:	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

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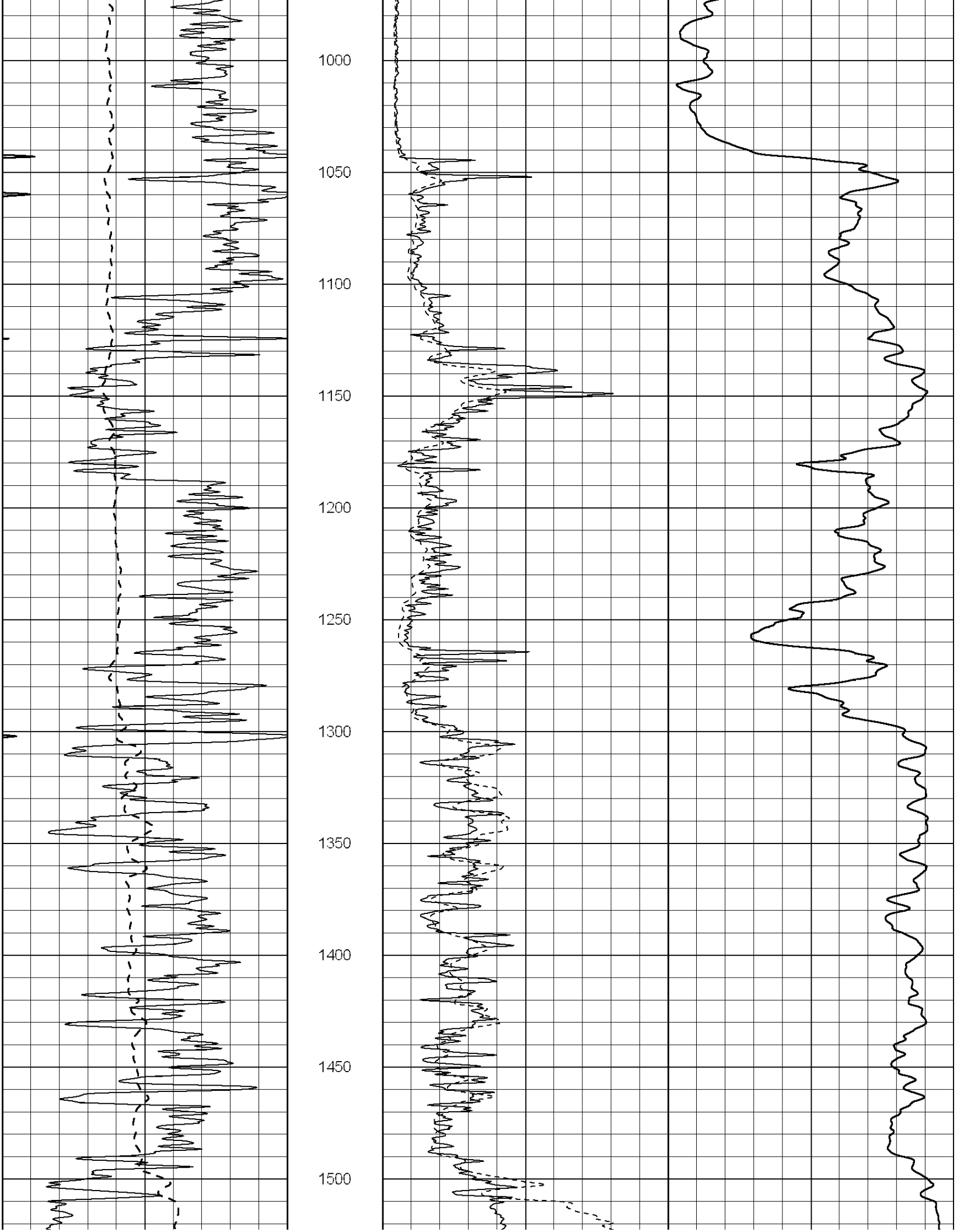
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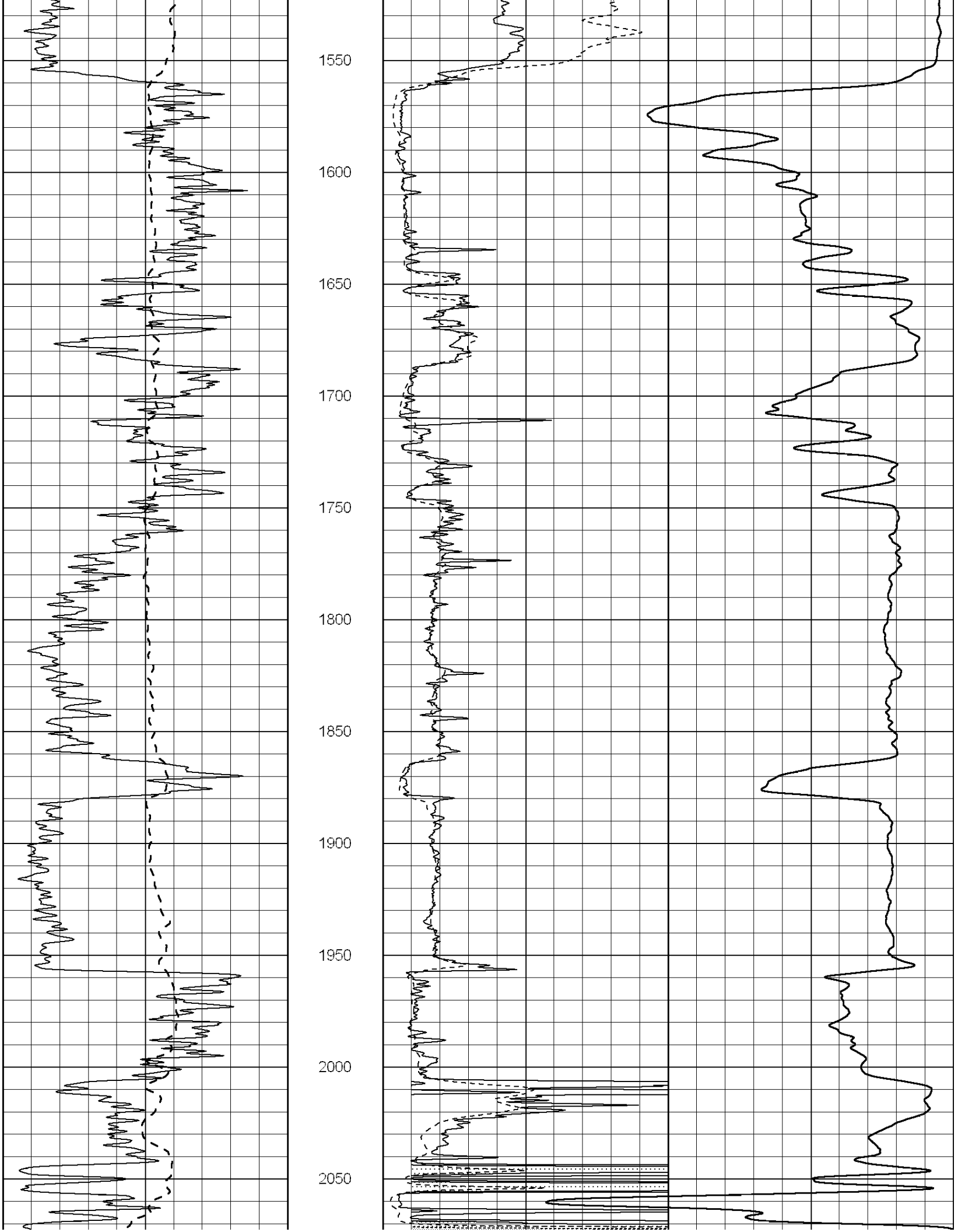
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1700
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1850
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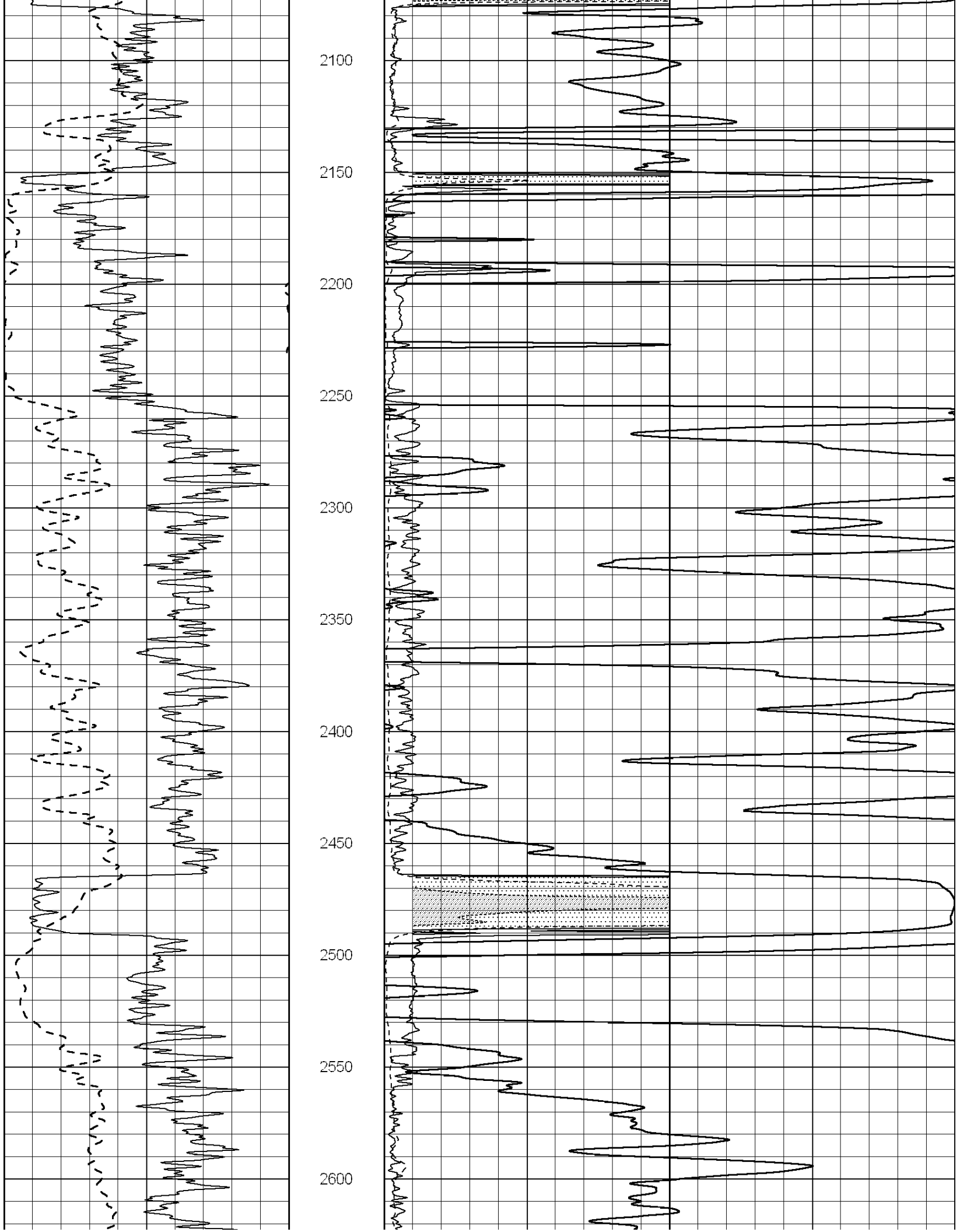
2000
2050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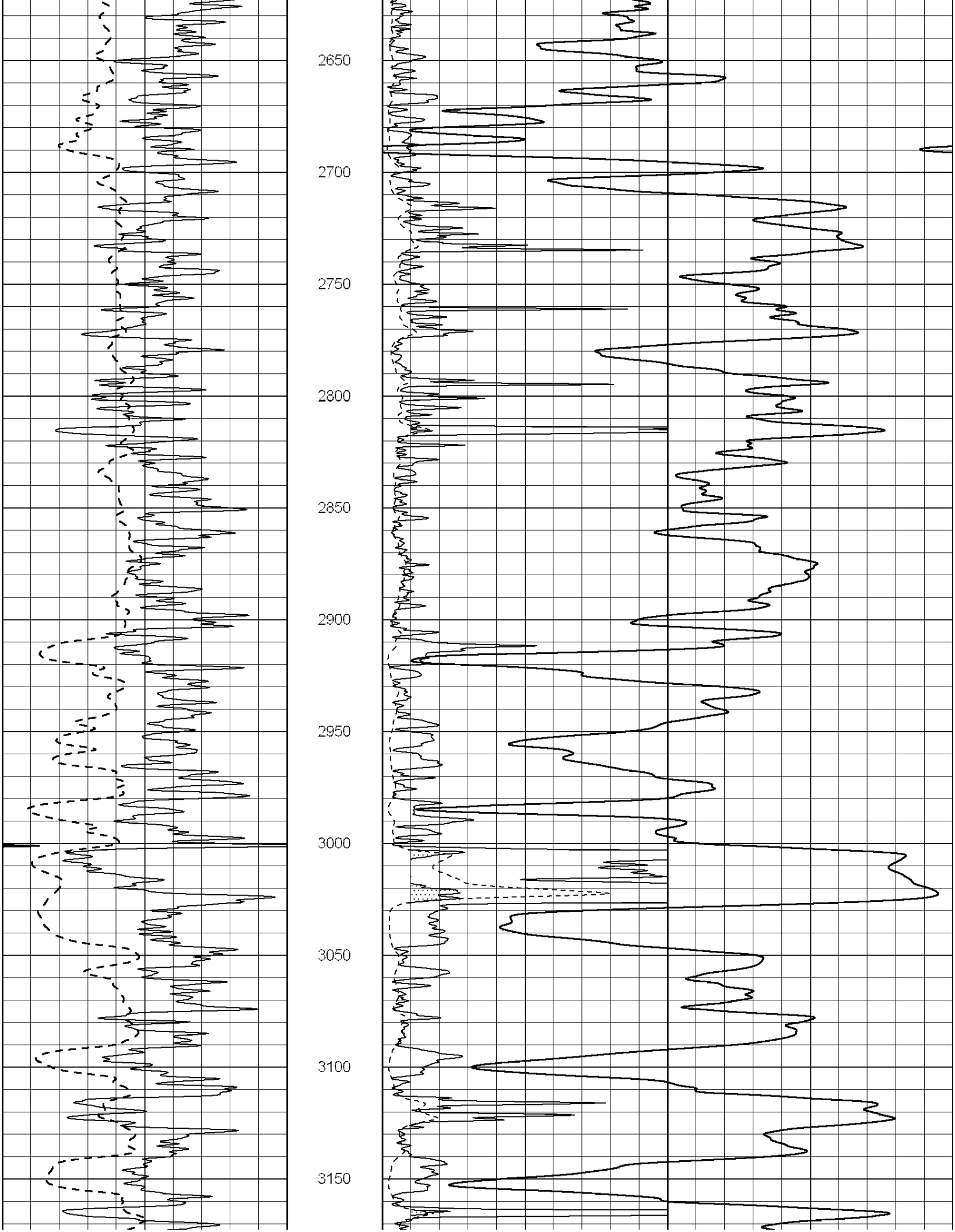
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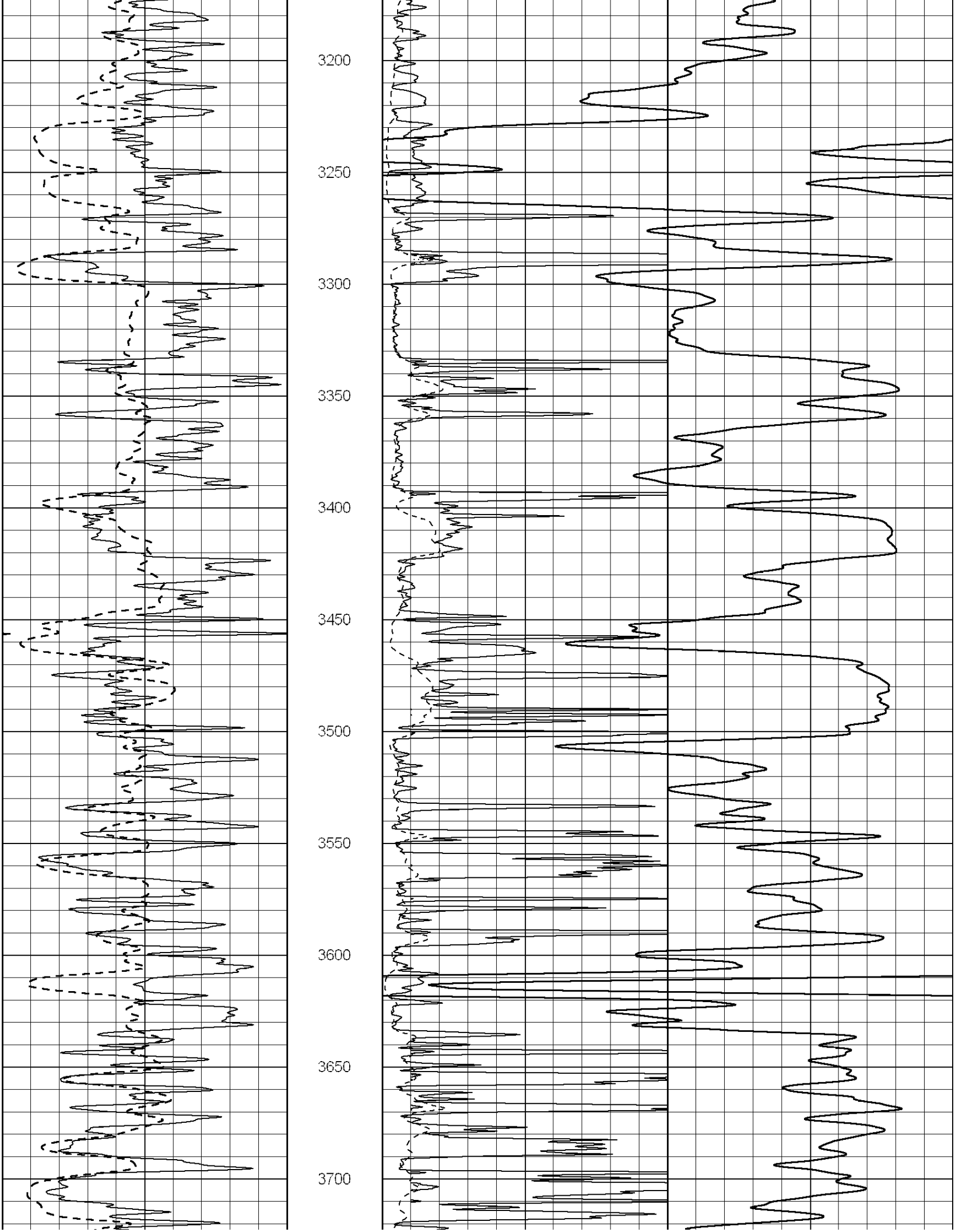
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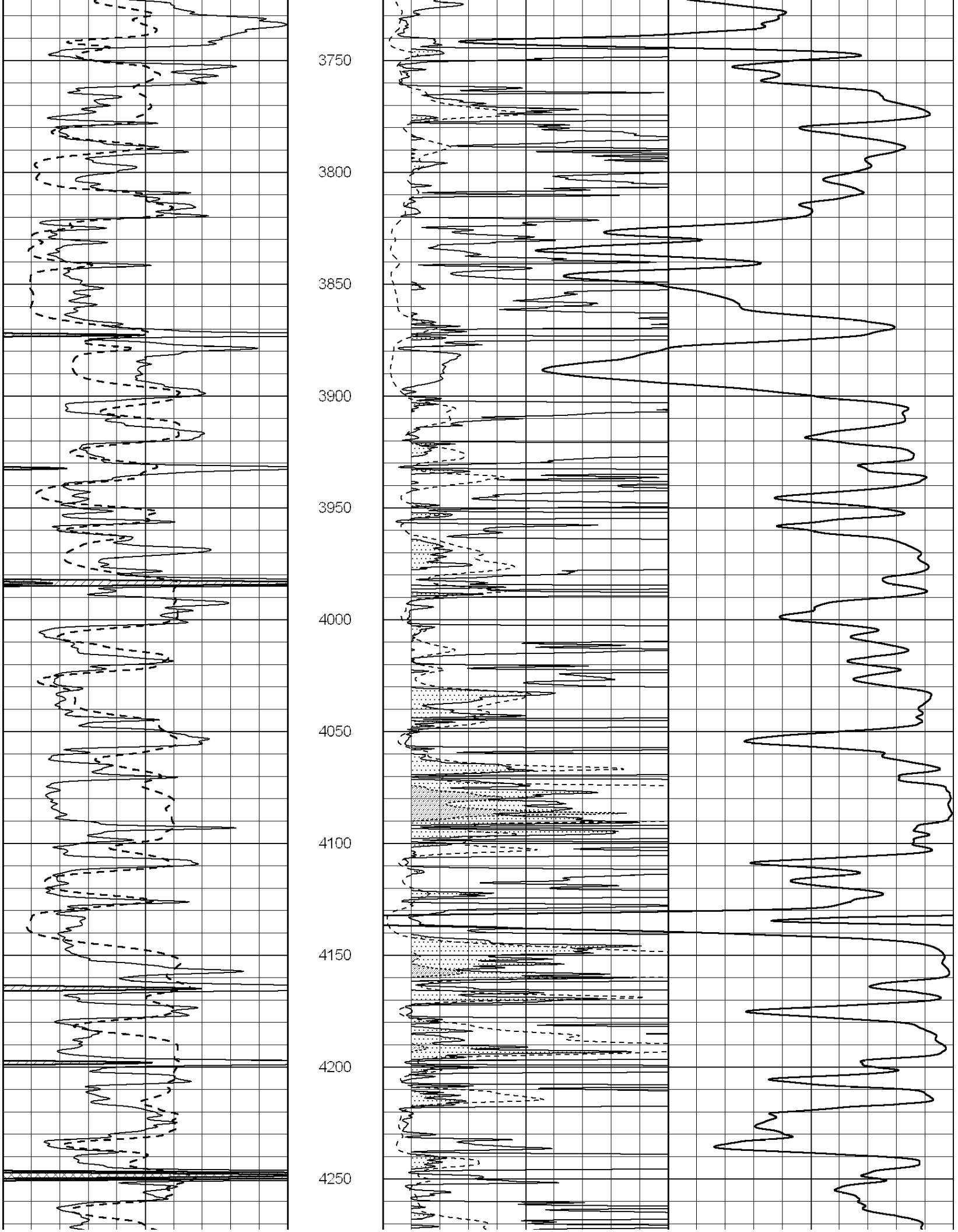
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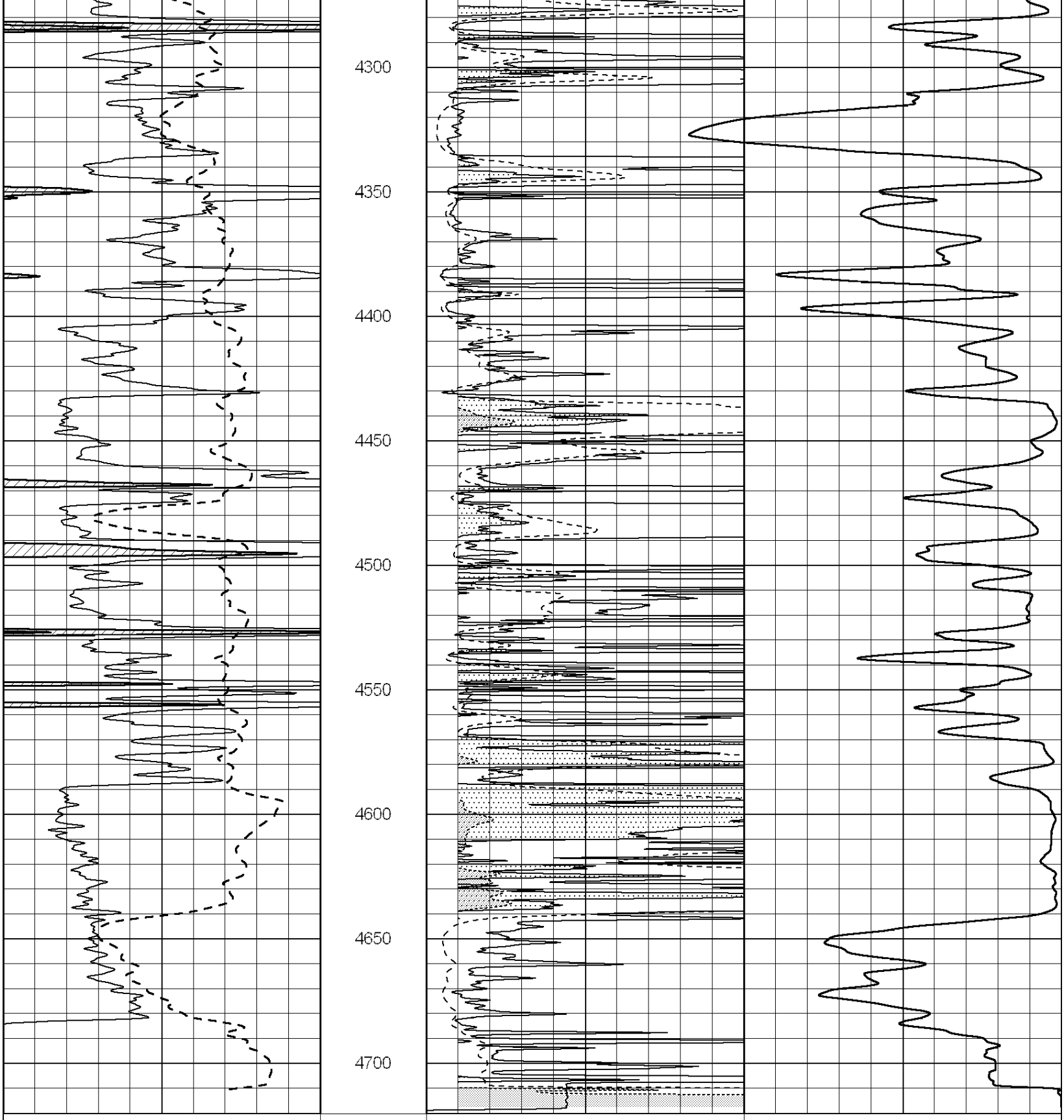


SUPERIOR

MAIN SECTION

WELL SERVICES

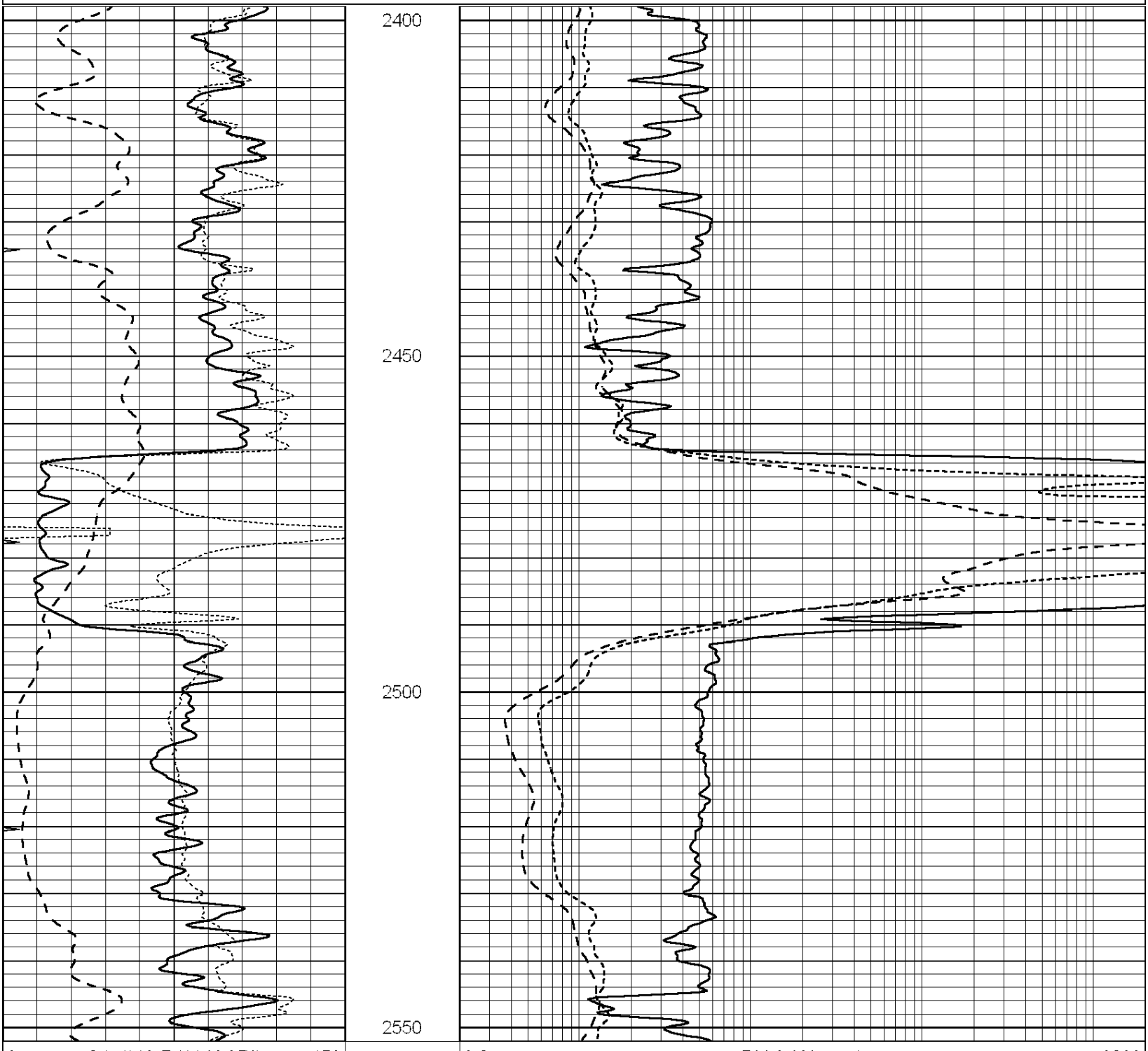
Hays,
Kansas

MAIN SECTION

Database File:	006921ddn.db
Dataset Pathname:	pass3.1A
Presentation Format:	dil
Dataset Creation:	Thu May 19 04:46:18 2011
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

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

-250	RxoRt	50
0	MINMK	20

0.2	MEDIUM INDUCTION (Ohm-m)	2000

SUPERIOR
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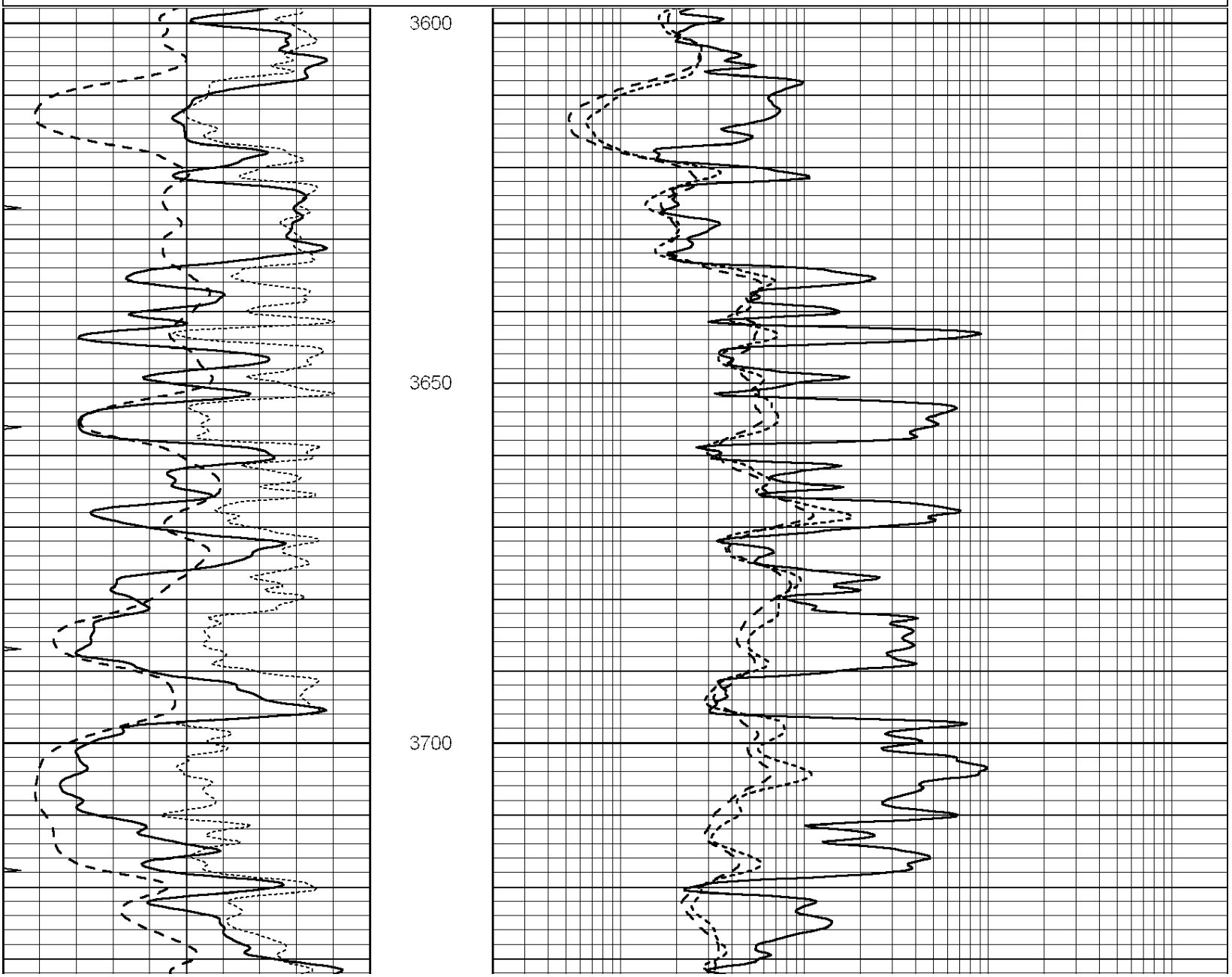
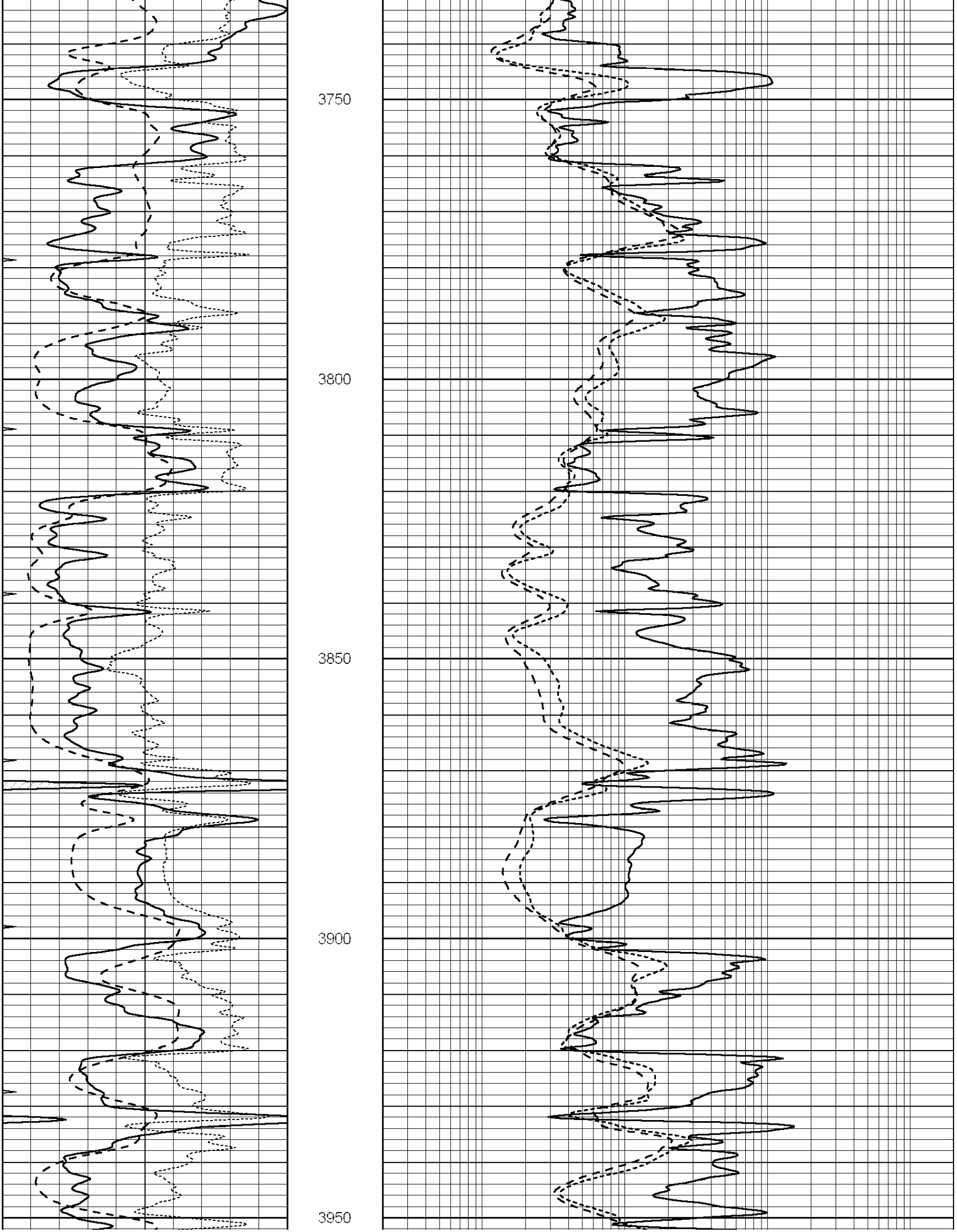
MAIN SECTION

Database File:	006921ddn.db
Dataset Pathname:	pass3.1A
Presentation Format:	dil
Dataset Creation:	Thu May 19 04:46:18 2011
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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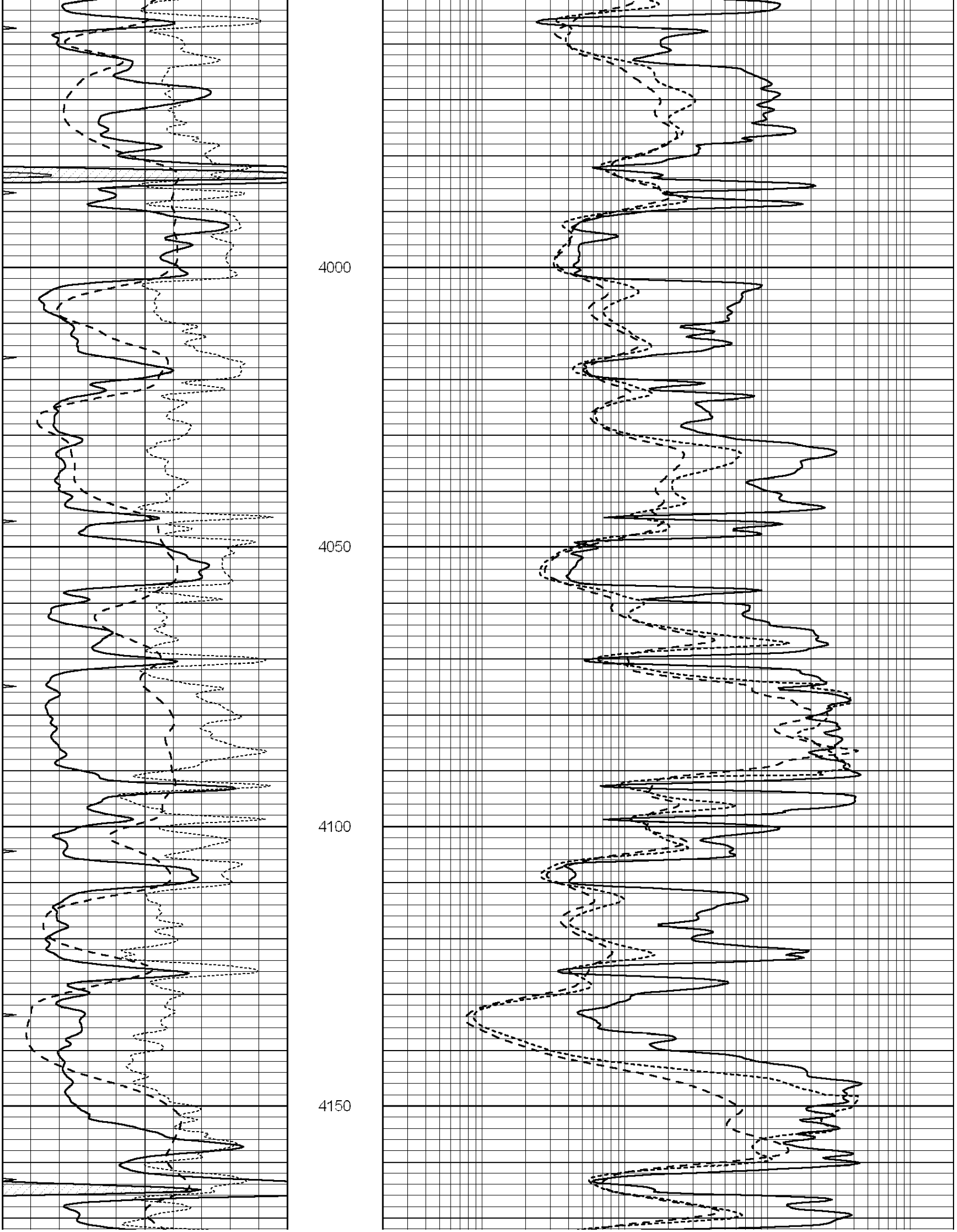
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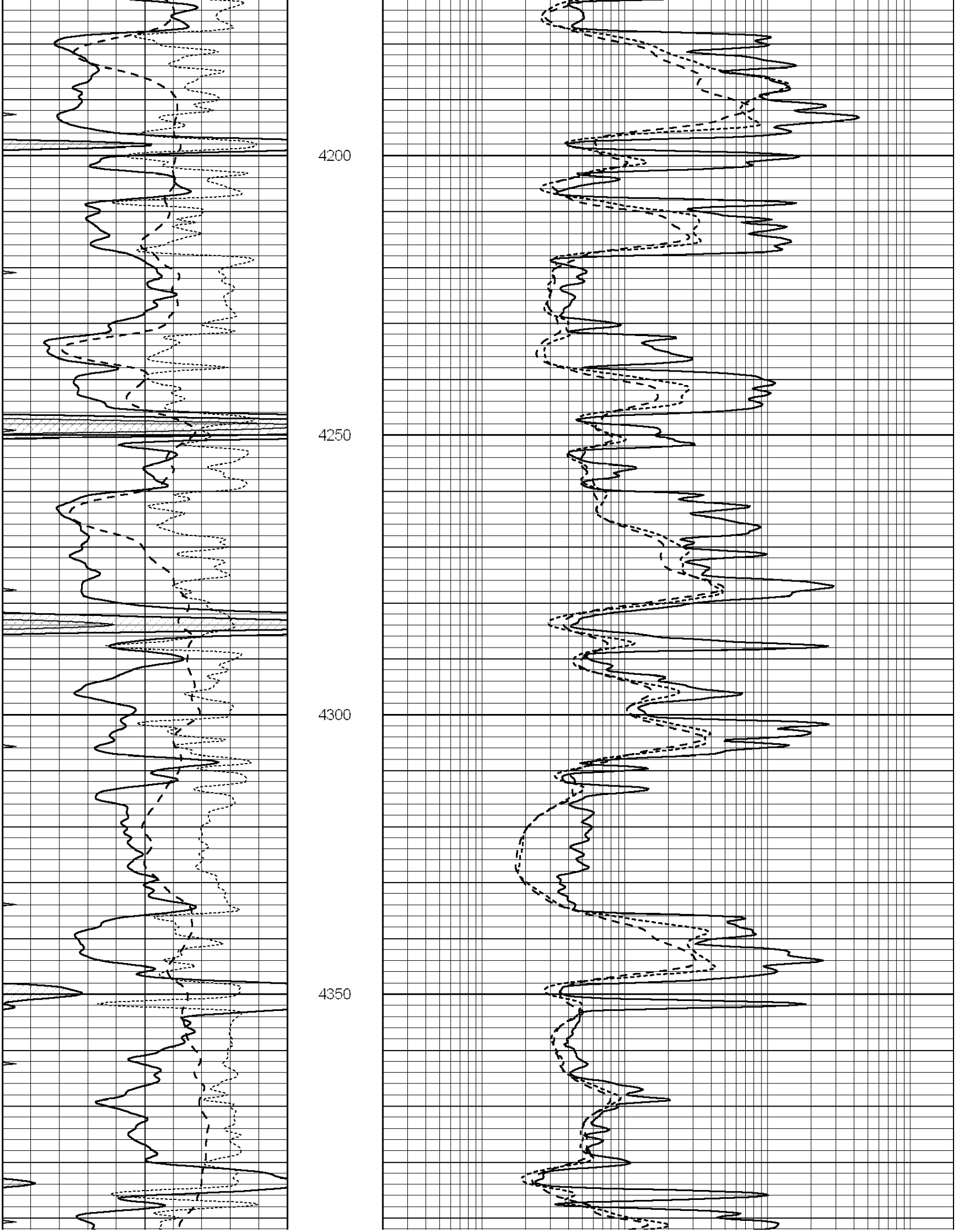
4150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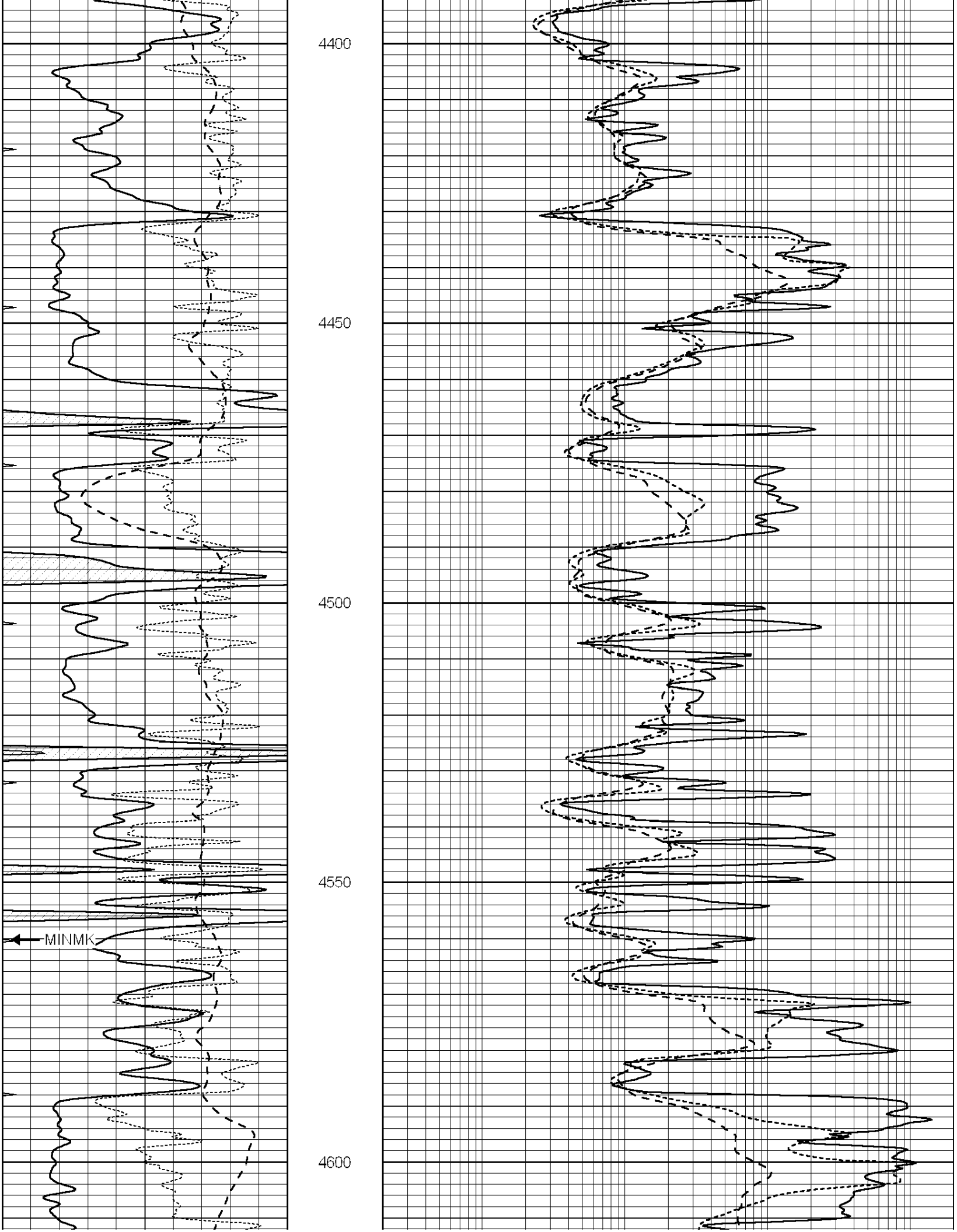
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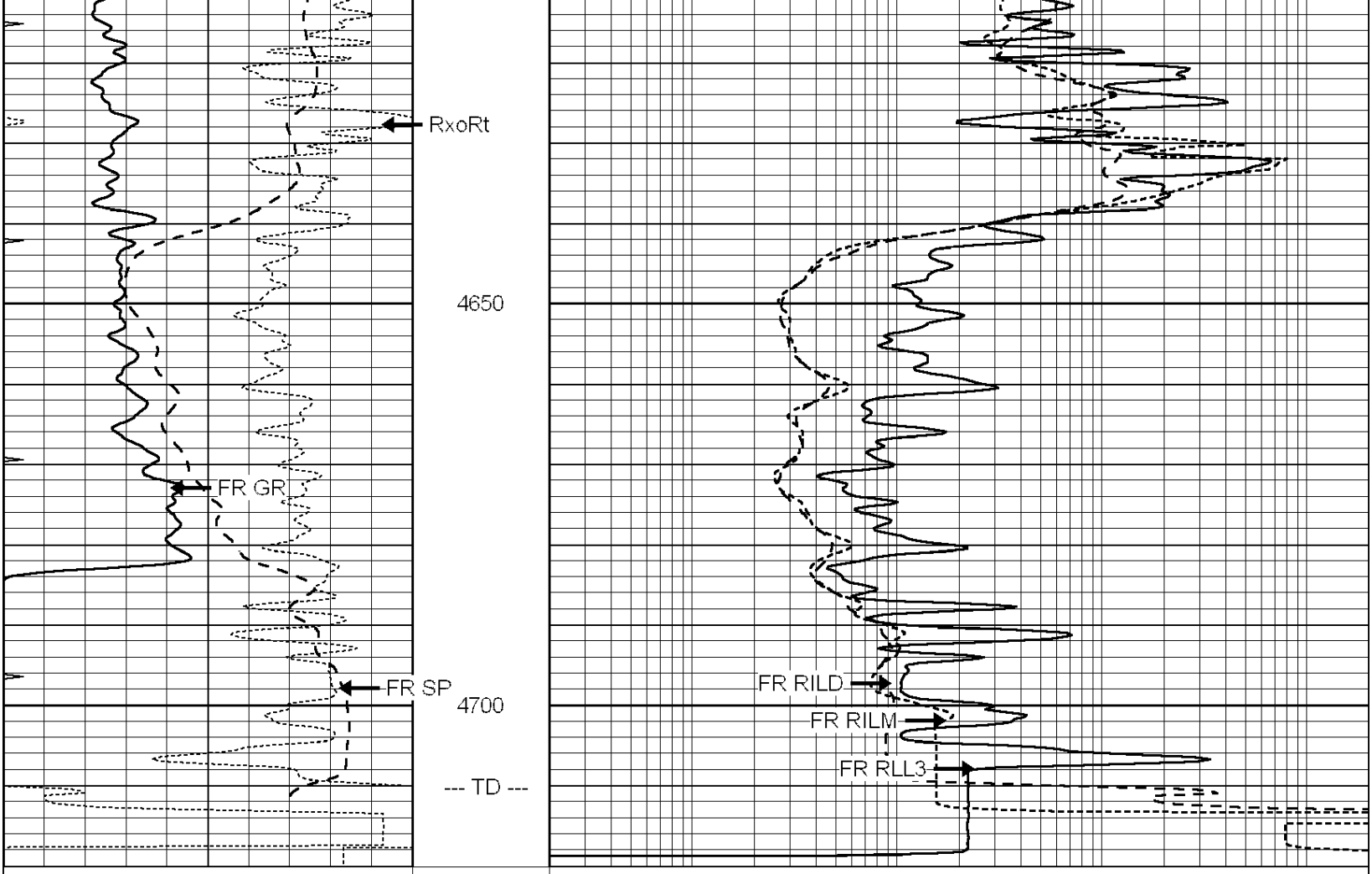
4500
4550
MINMK
4600



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 WELL SERVICES

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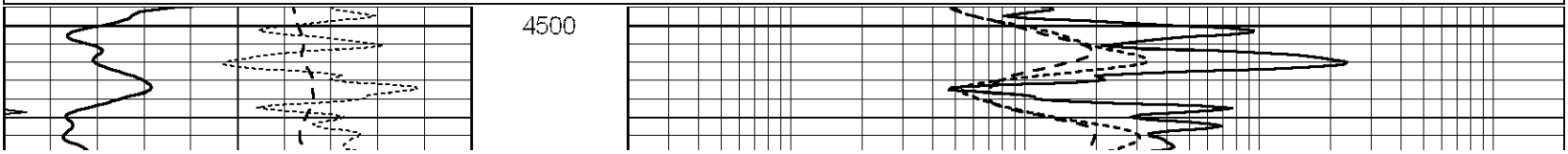
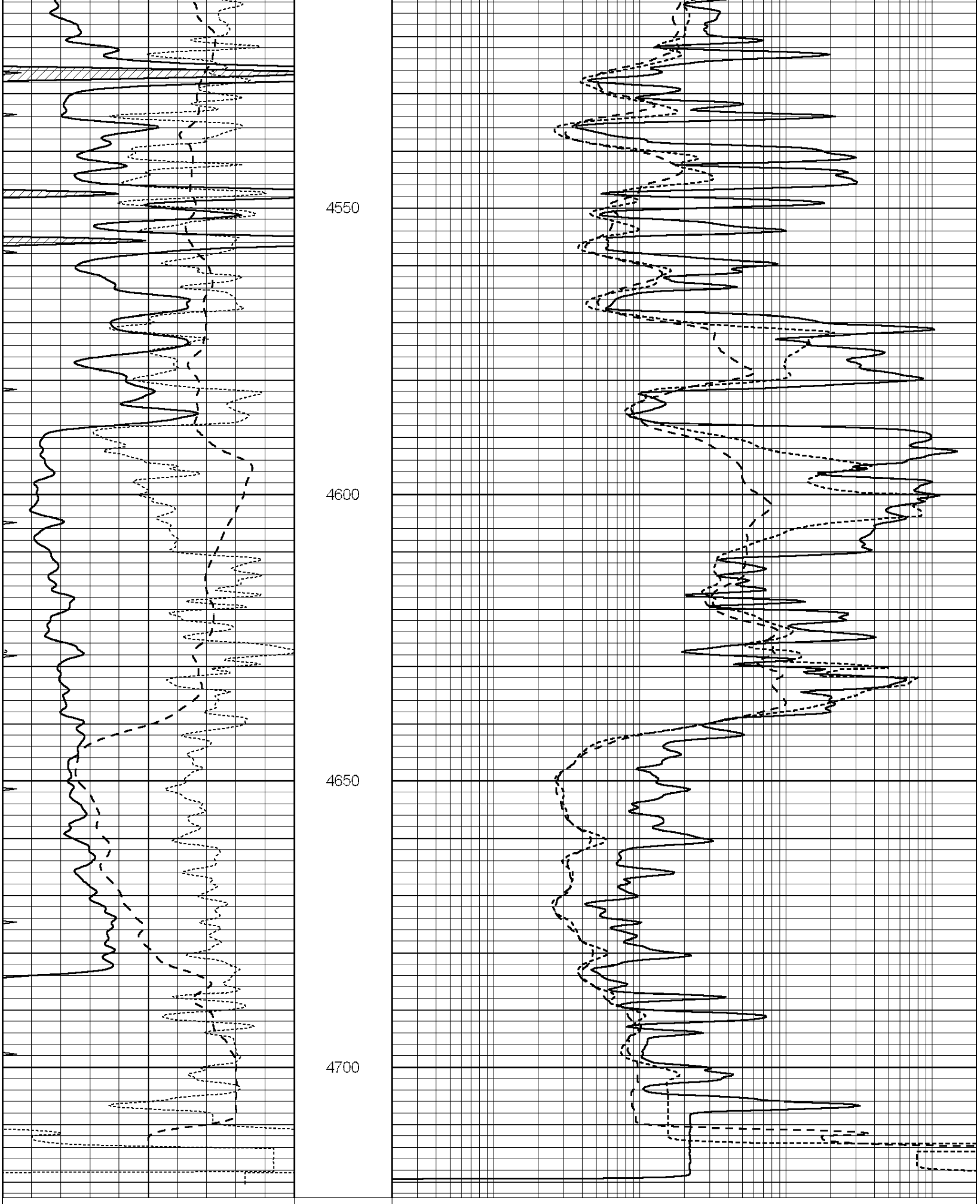
REPEAT SECTION

Database File:	006921ddn.db
Dataset Pathname:	pass2.1A
Presentation Format:	dil
Dataset Creation:	Thu May 19 04:49:50 2011
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




4550
4600
4650
4700
0
GAMMA RAY (GAPI)
150
-100
SP (mV)
100
0.2
RLL3 (Ohm-m)
2000
0.2
DEEP INDUCTION (Ohm-m)
2000

-250	RxoRt	50
0	MINMK	20

0.2	MEDIUM INDUCTION (Ohm-m)	2000

Calibration Report

Database File: 006921ddn.db
Dataset Pathname: pass3.1A
Dataset Creation: Thu May 19 04:46:18 2011

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Wed May 18 09:04:19 2011

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	570.000	-3.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	560.000	-14.000
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: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Wed May 18 08:23:19 2011

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	8.90	in	3.82	V
Large Ring	14.20	in	6.37	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 19 03:55:48 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps