NABORS
COMPLETION & PRODUCTION SERVICES CO.

DUAL INDUCTION LOG

Company TRANS PACIFIC OIL CORP.

Well ROBERTS E #2-10

Field WILDCAT

County GOVE State KANSAS

Location: API # : 15-063-22086

2640' FSL & 330' FWL

SEC 10 TWP 15S RGE 28W

Other Services: CDL/CNL

Elevation: K.B. 2483 D.F. G.L. 2475

Permanent Datum GROUND LEVEL Elevation 2475

Log Measured From KELLY BUSHING 8' A.G.L.

Drilling Measured From KELLY BUSHING

Company TRANS PACIFIC OIL CORP.
Well ROBERTS E #2-10
Field WILDCAT
County GOVE
State KANSAS

Date	3-2-13		
Run Number	ONE		
Depth Driller	4300		
Depth Logger	4301		
Bottom Logged Interval	4299		
Top Log Interval	00		
Casing Driller	223		
Casing Logger	223		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 48		
pH / Fluid Loss	9.0 / 7.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.90 @ 84F		
Rmf @ Meas. Temp	0.68 @ 84F		
Rmc @ Meas. Temp	1.08 @ 84F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.640 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:00 P.M.		
Maximum Recorded Temperature	118F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MIKE KIDWELL		

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Comments

NABORS PRODUCTION & COMPLETION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: JCT. OF K-40 & K-23, N TO NESS/LANE C.L., 2N TO RD.C, 3E, 3N, 1E INTO.

MAIN SECTION

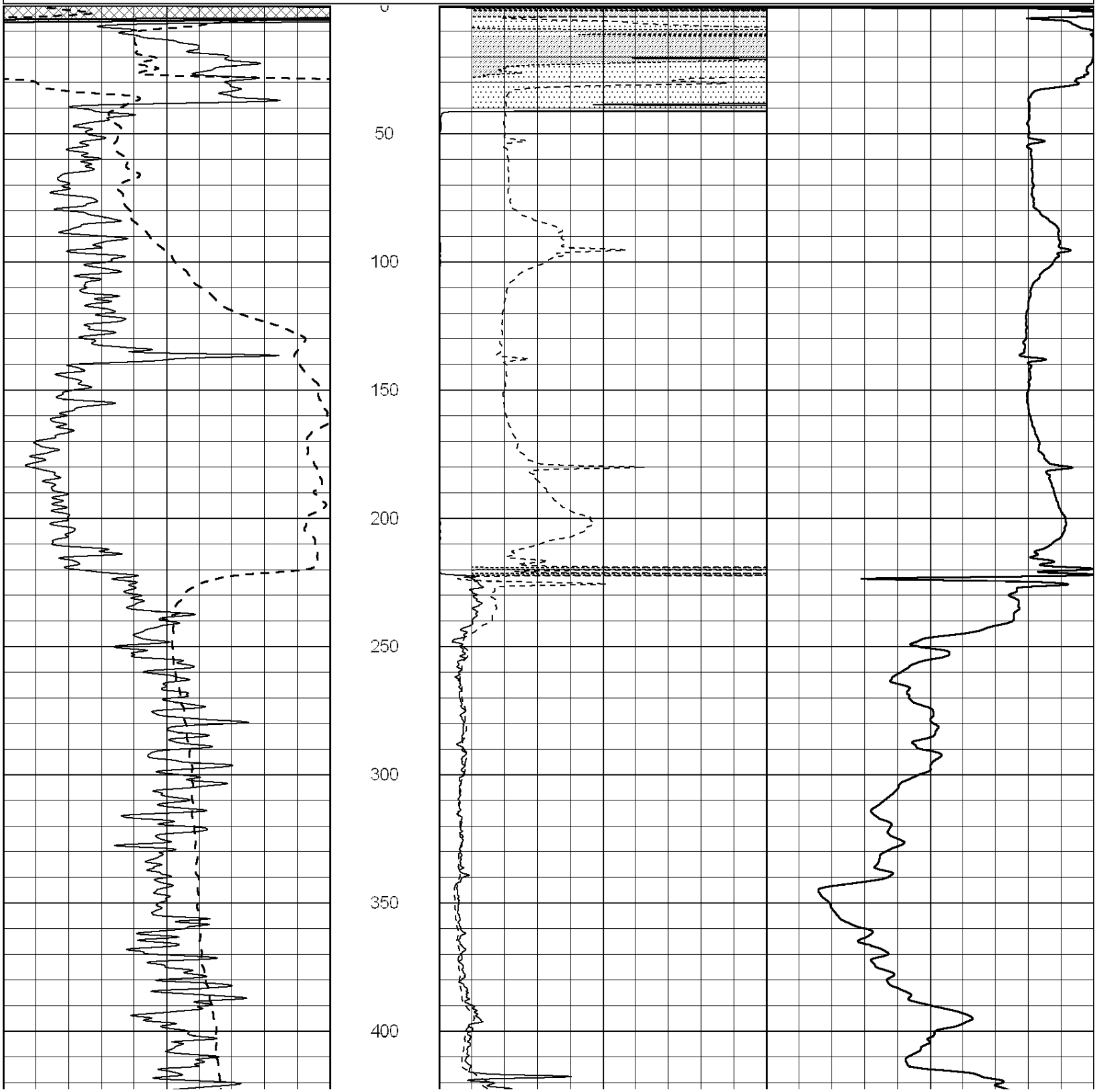
NABORS COMPLETION & PRODUCTION

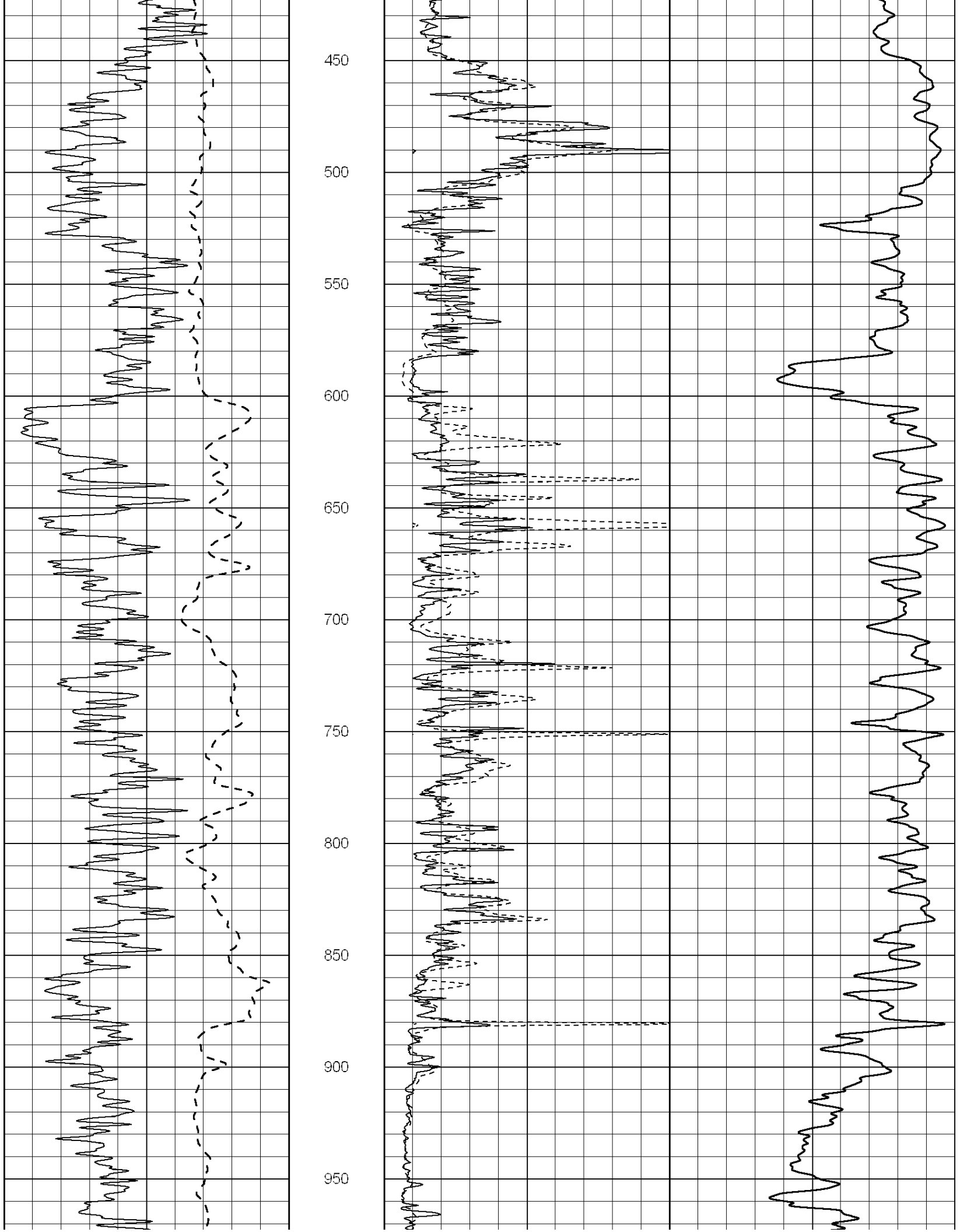
& PRODUCTION
SERVICES CO.

Database File: 010827ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil2
Dataset Creation: Sun Mar 03 14:19:31 2013
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150

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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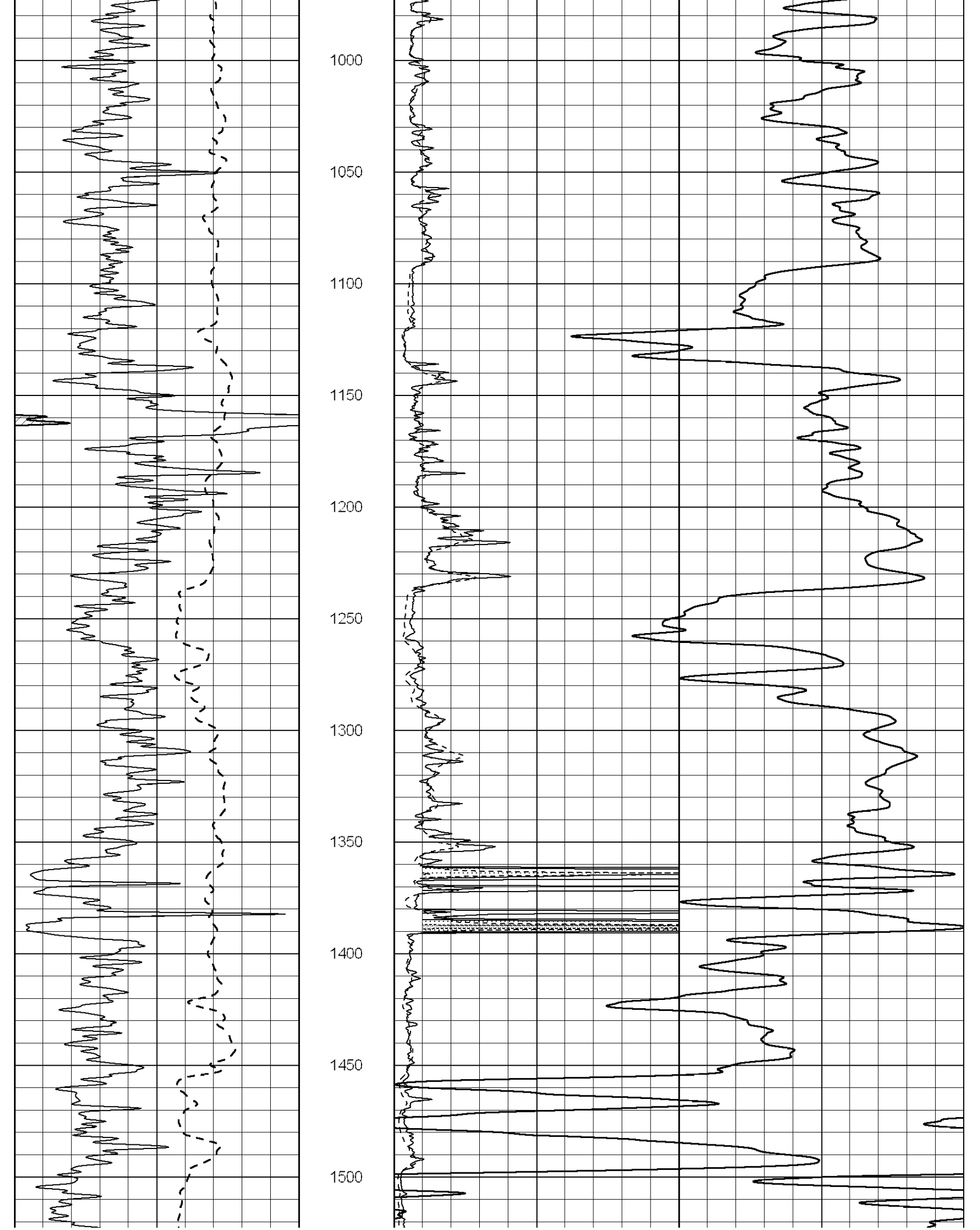
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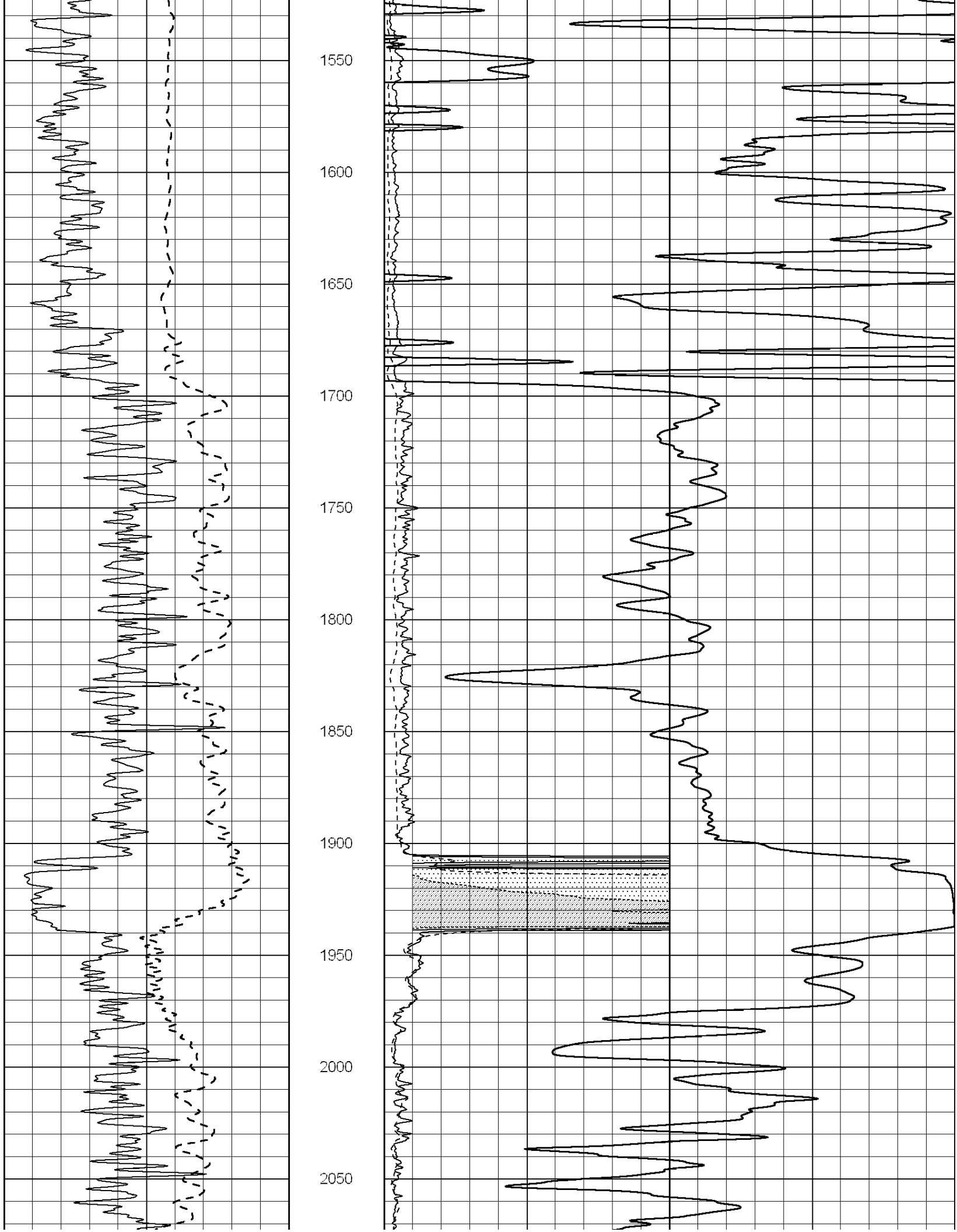
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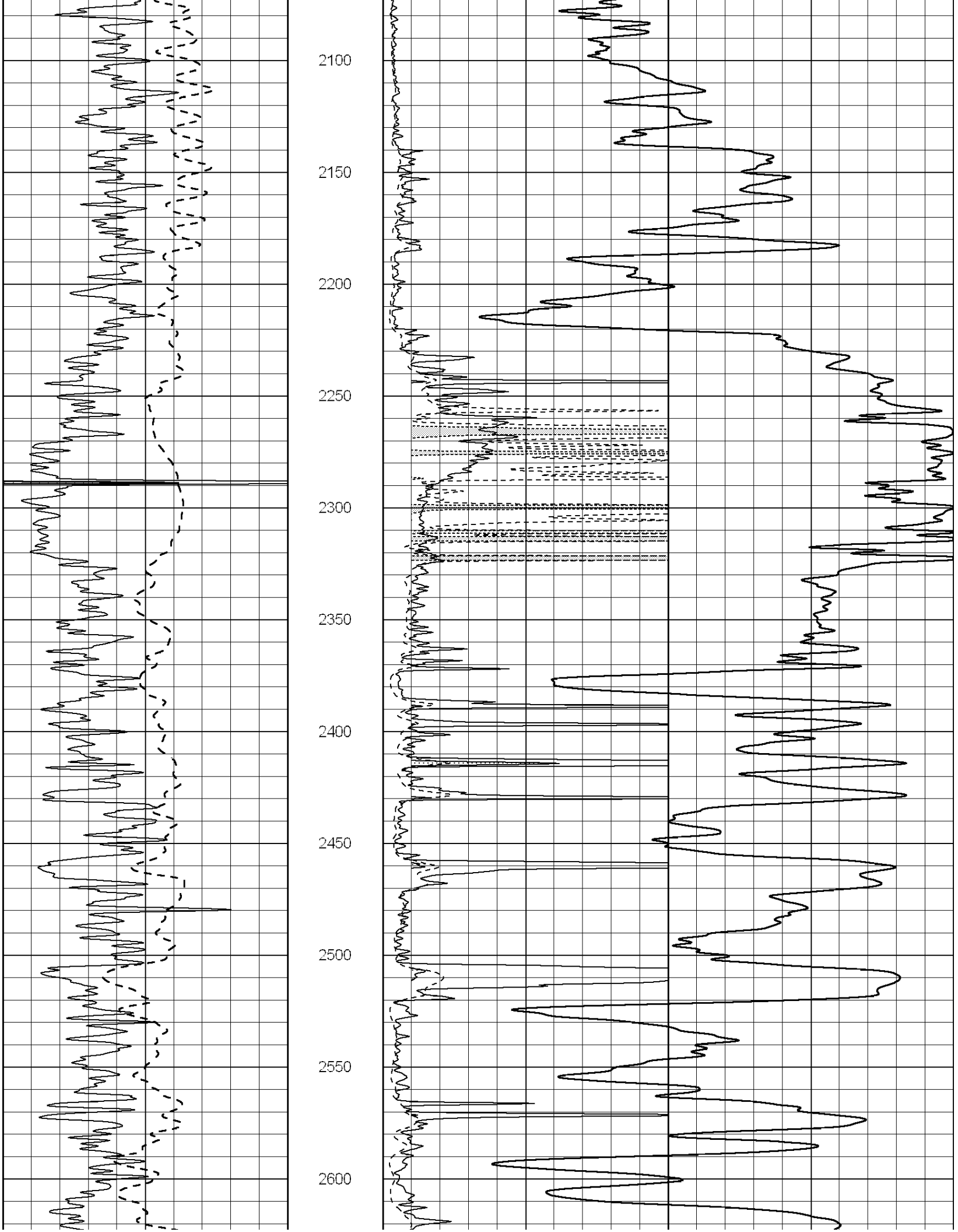
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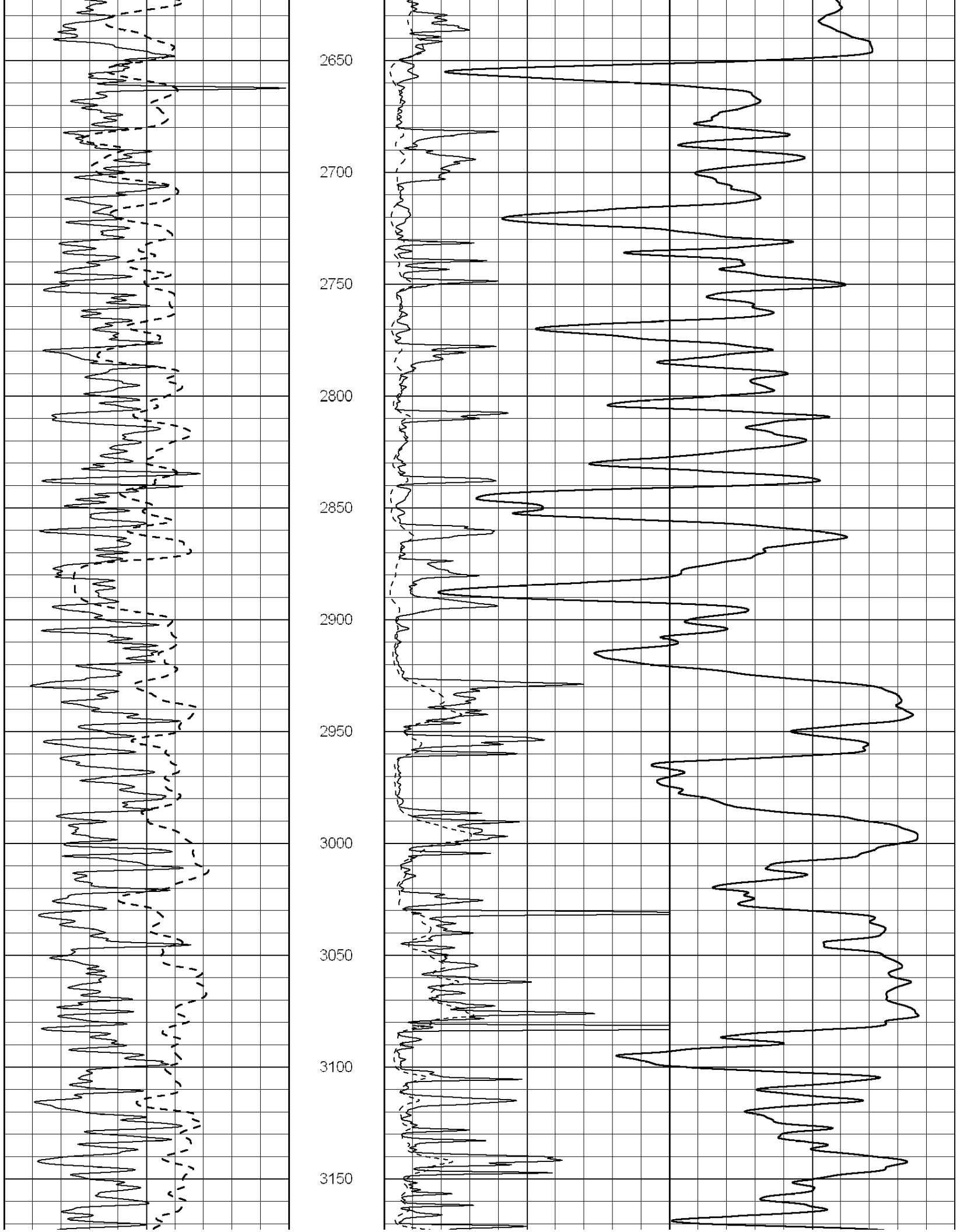
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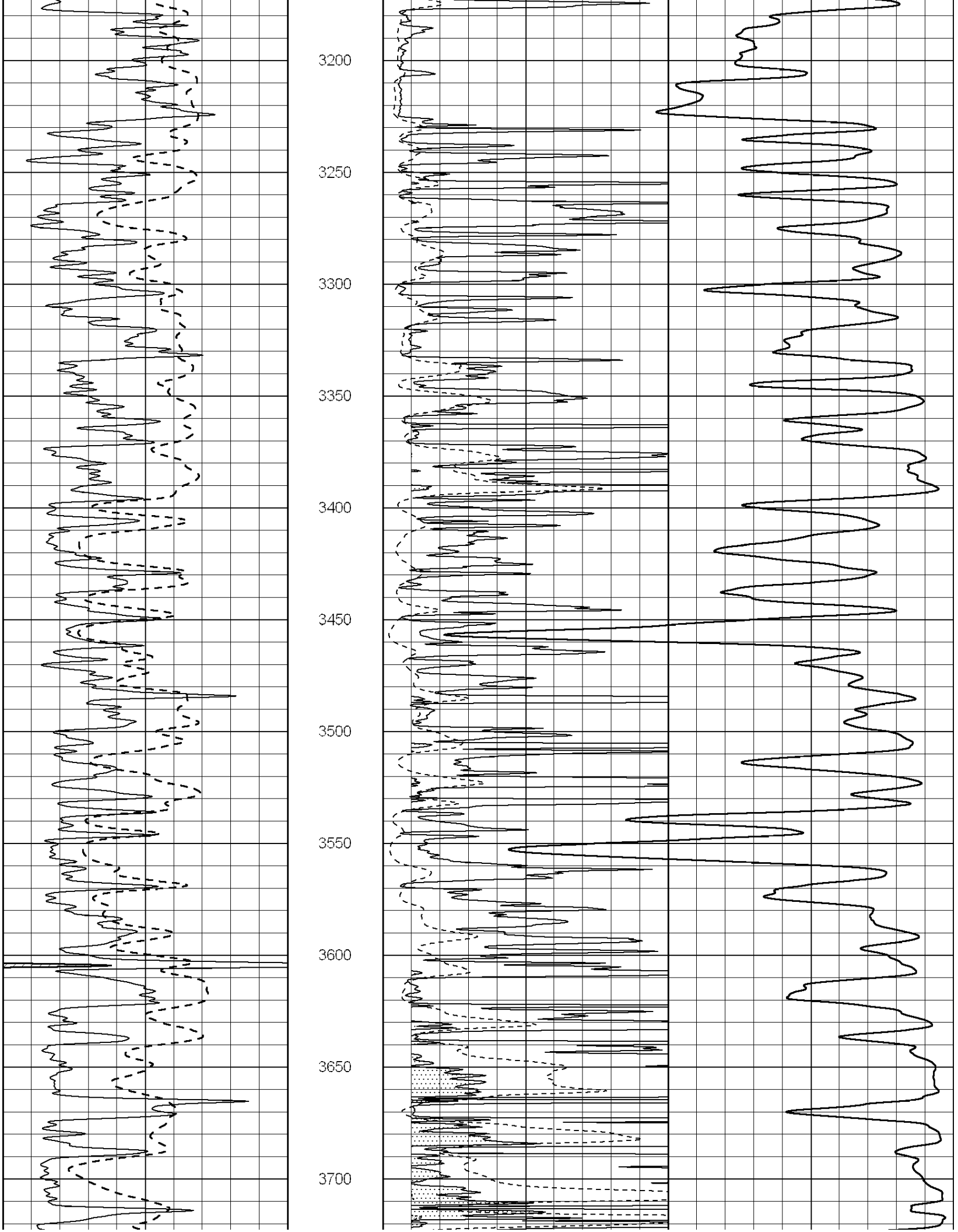
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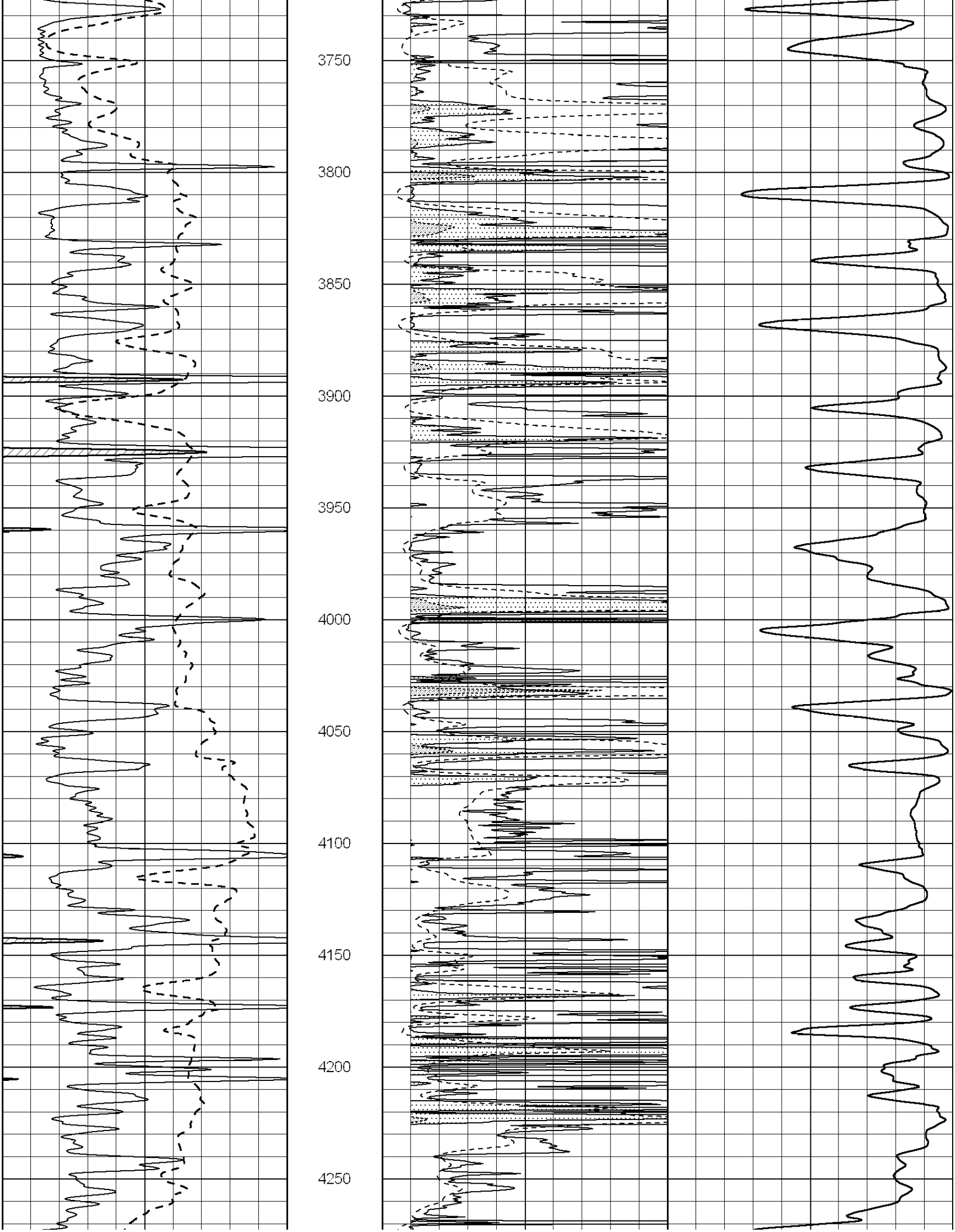
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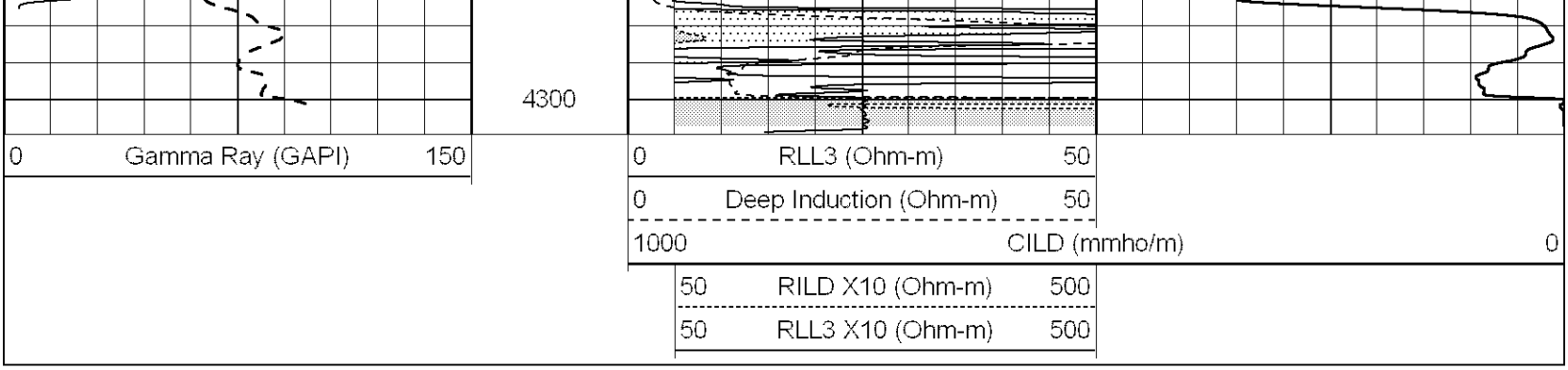


NABORS

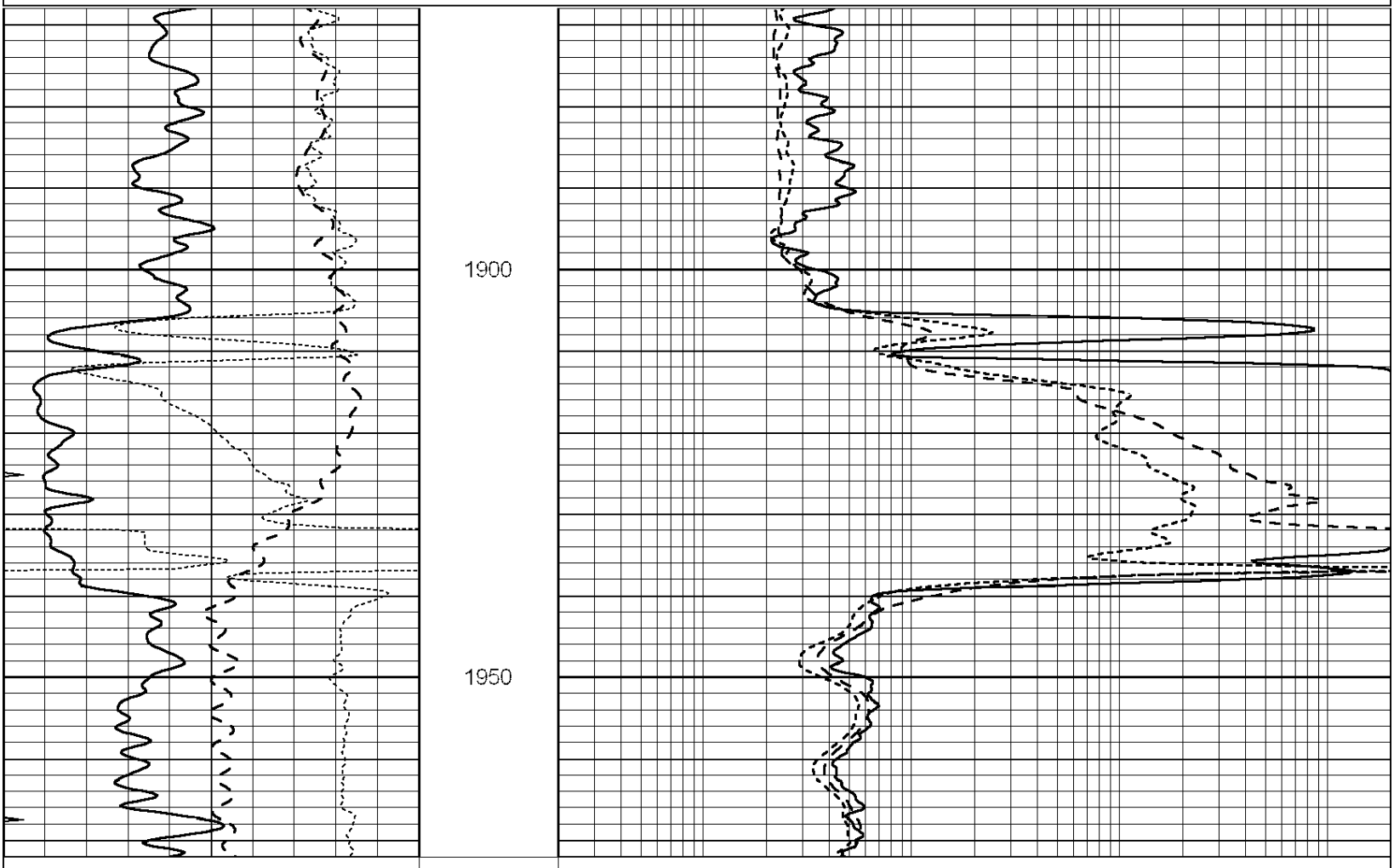
COMPLETION & PRODUCTION SERVICES CO.

MAIN SECTION

Database File:	010827ddn.db
Dataset Pathname:	pass3.1A
Presentation Format:	dil
Dataset Creation:	Sun Mar 03 14:19:31 2013
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



-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

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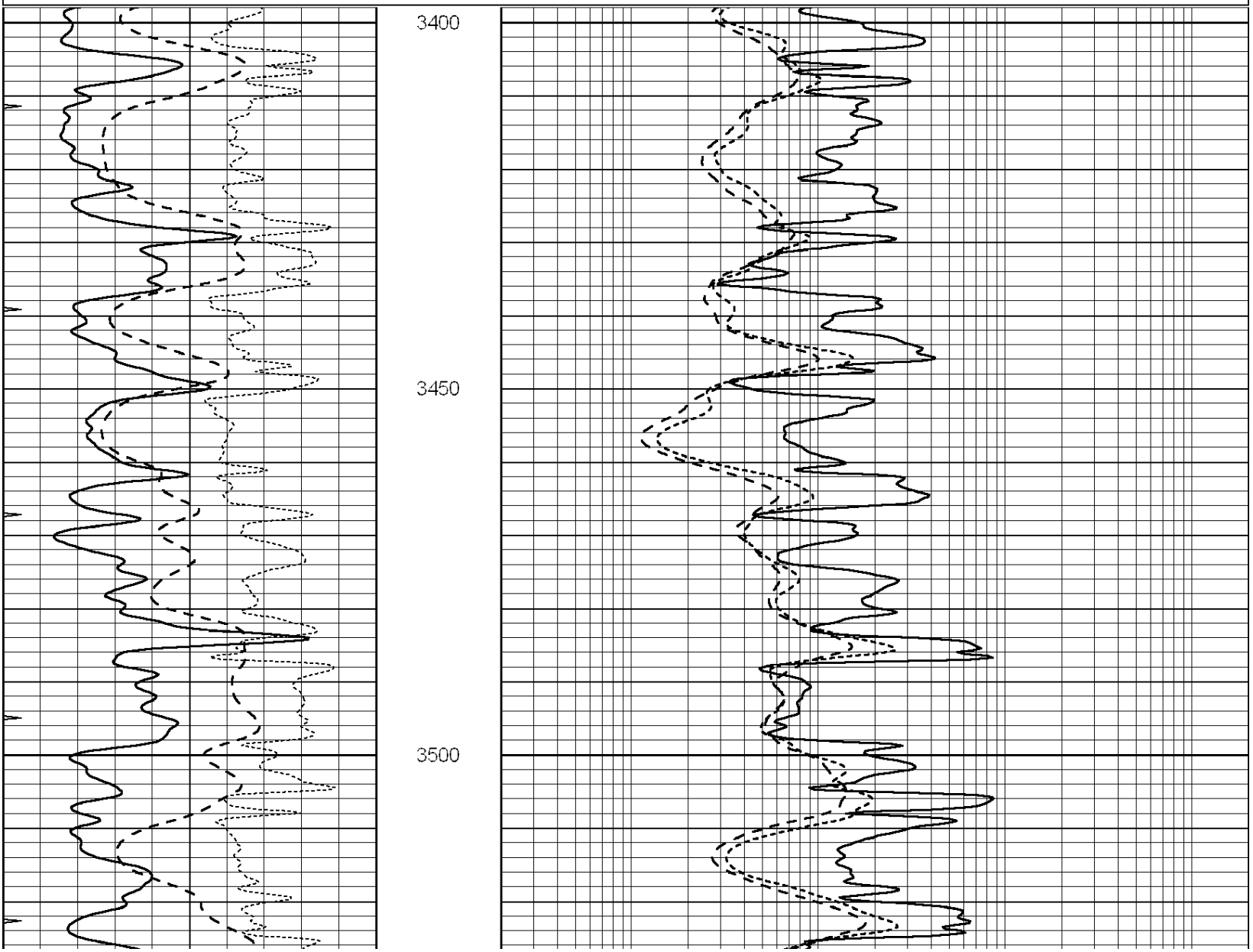
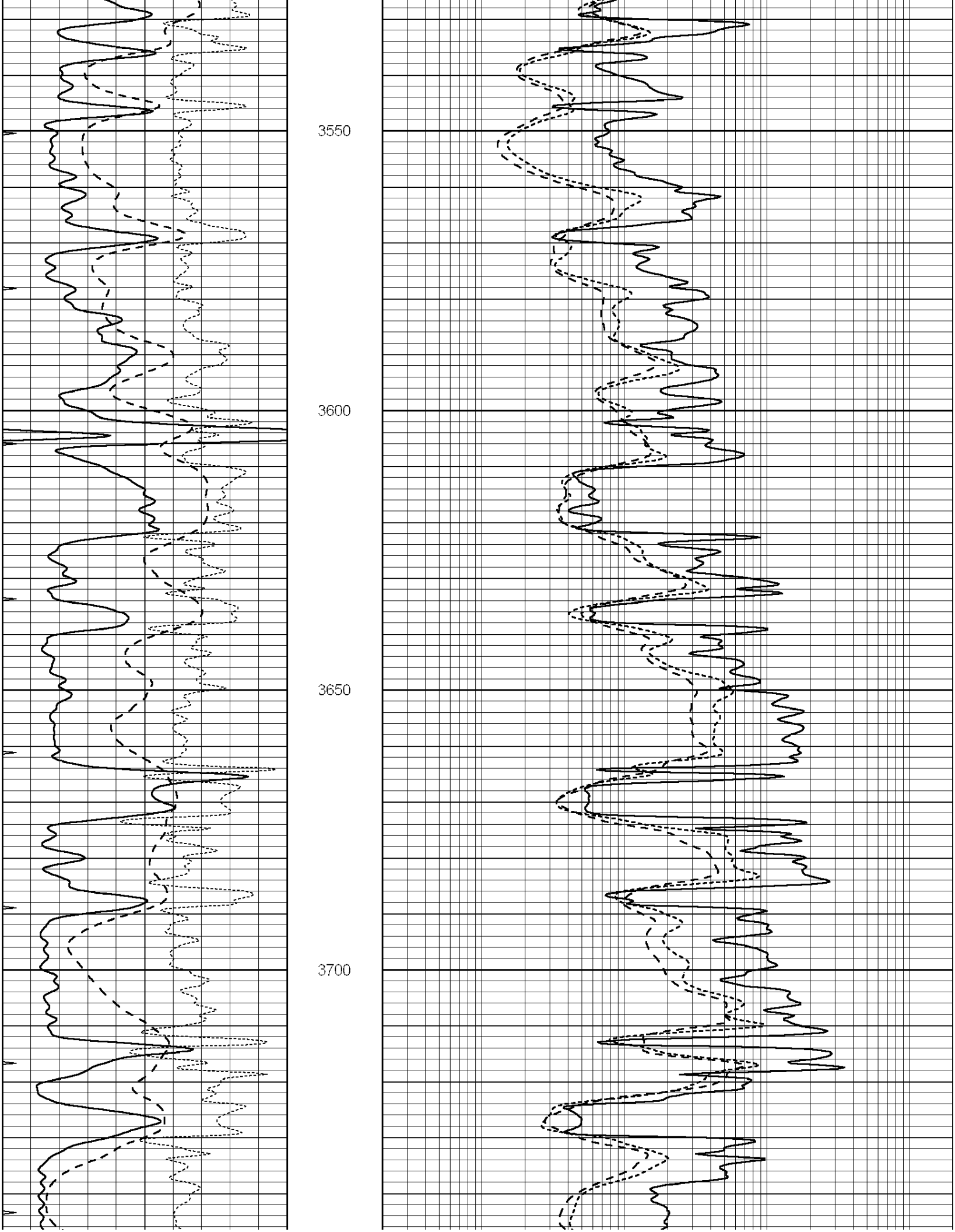
MAIN SECTION

Database File:	010827ddn.db
Dataset Pathname:	pass3.1A
Presentation Format:	dil
Dataset Creation:	Sun Mar 03 14:19:31 2013
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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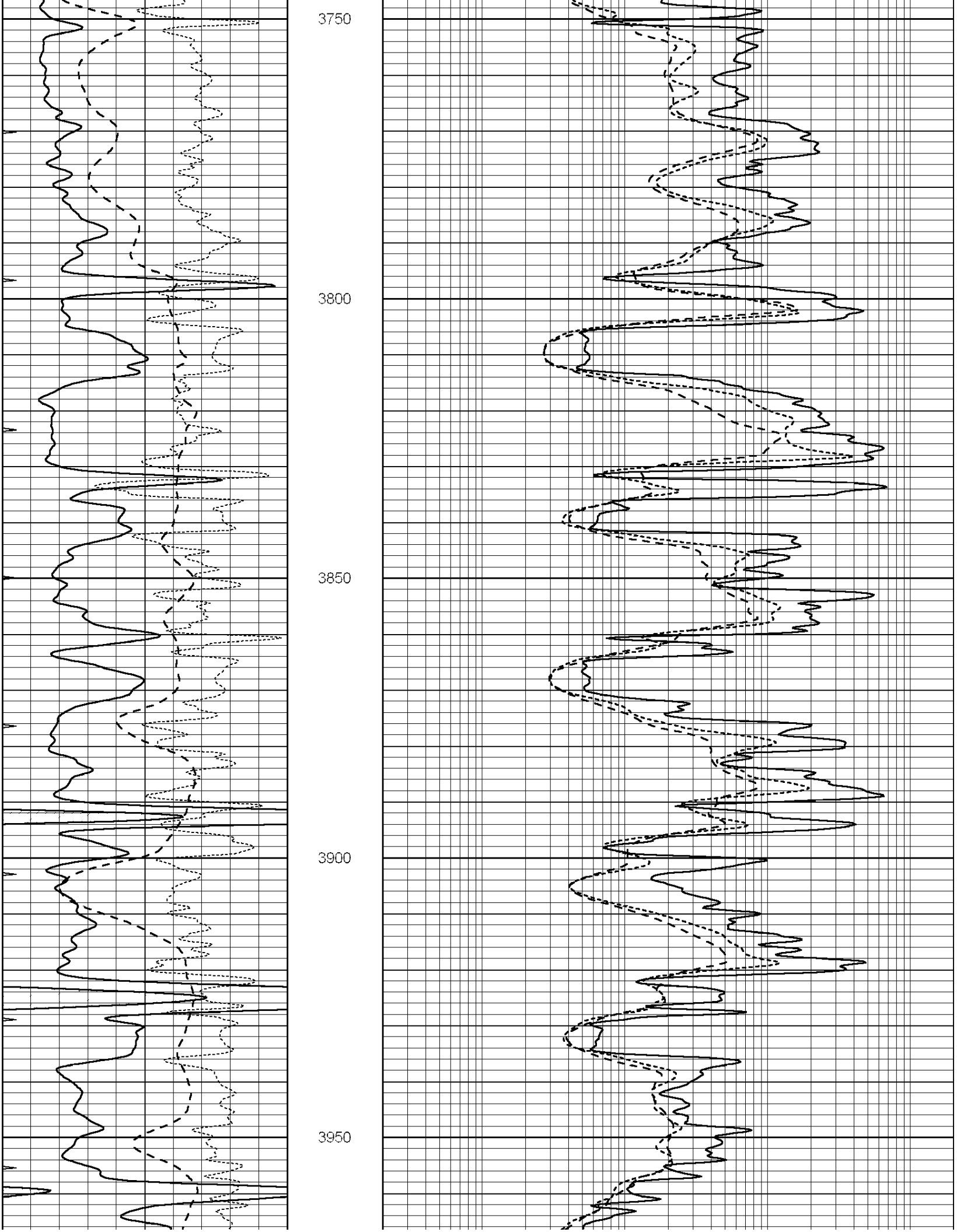
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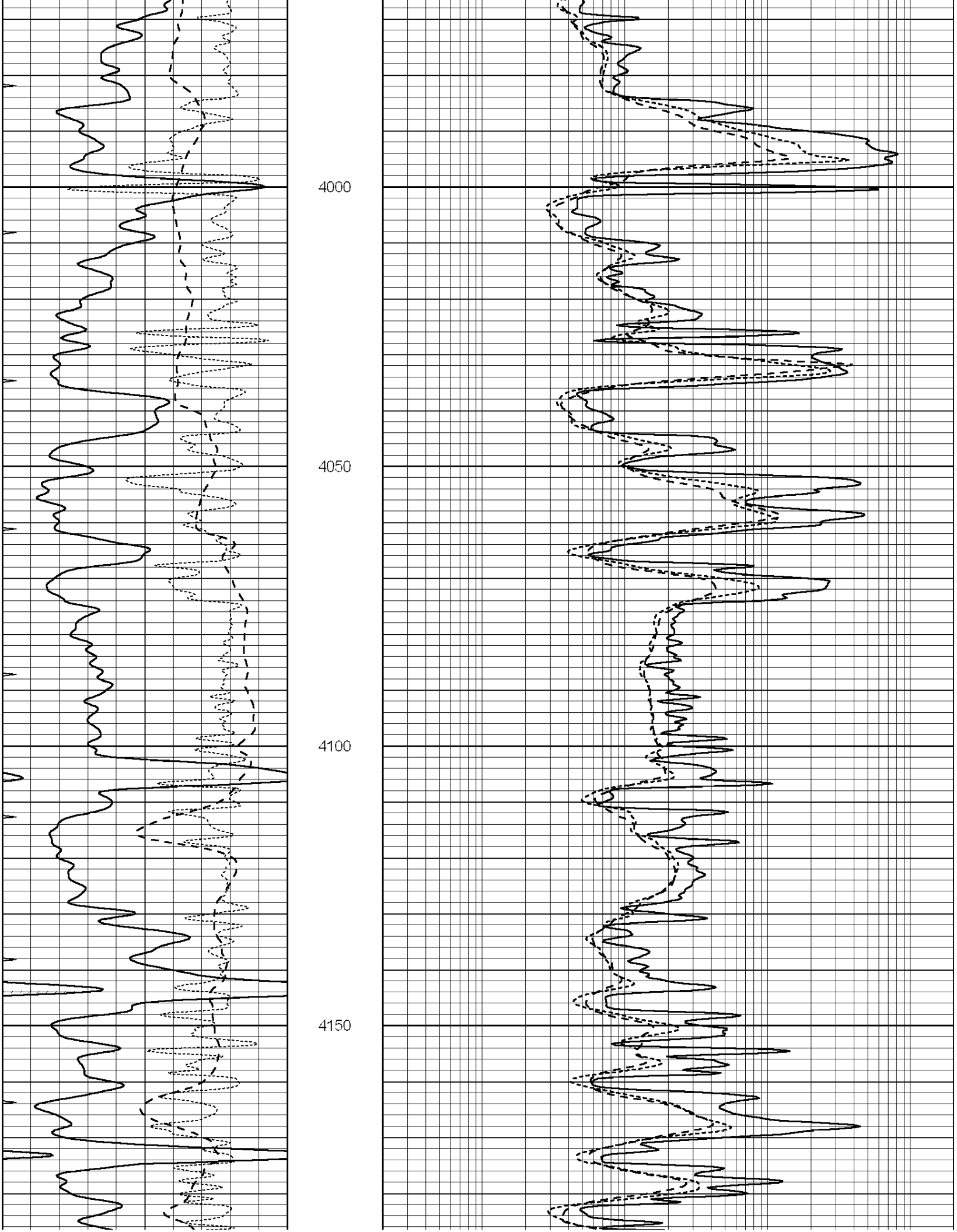
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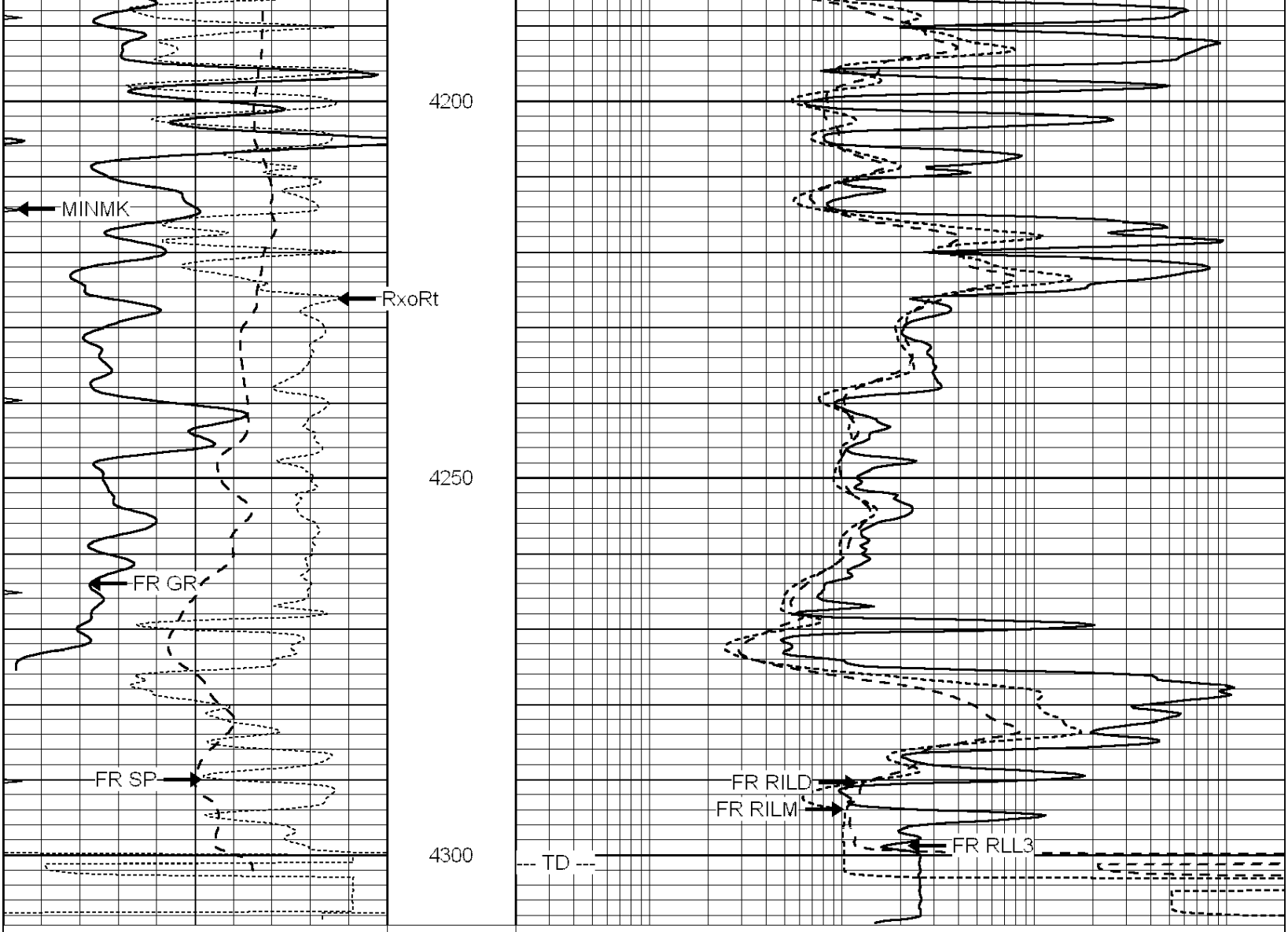


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

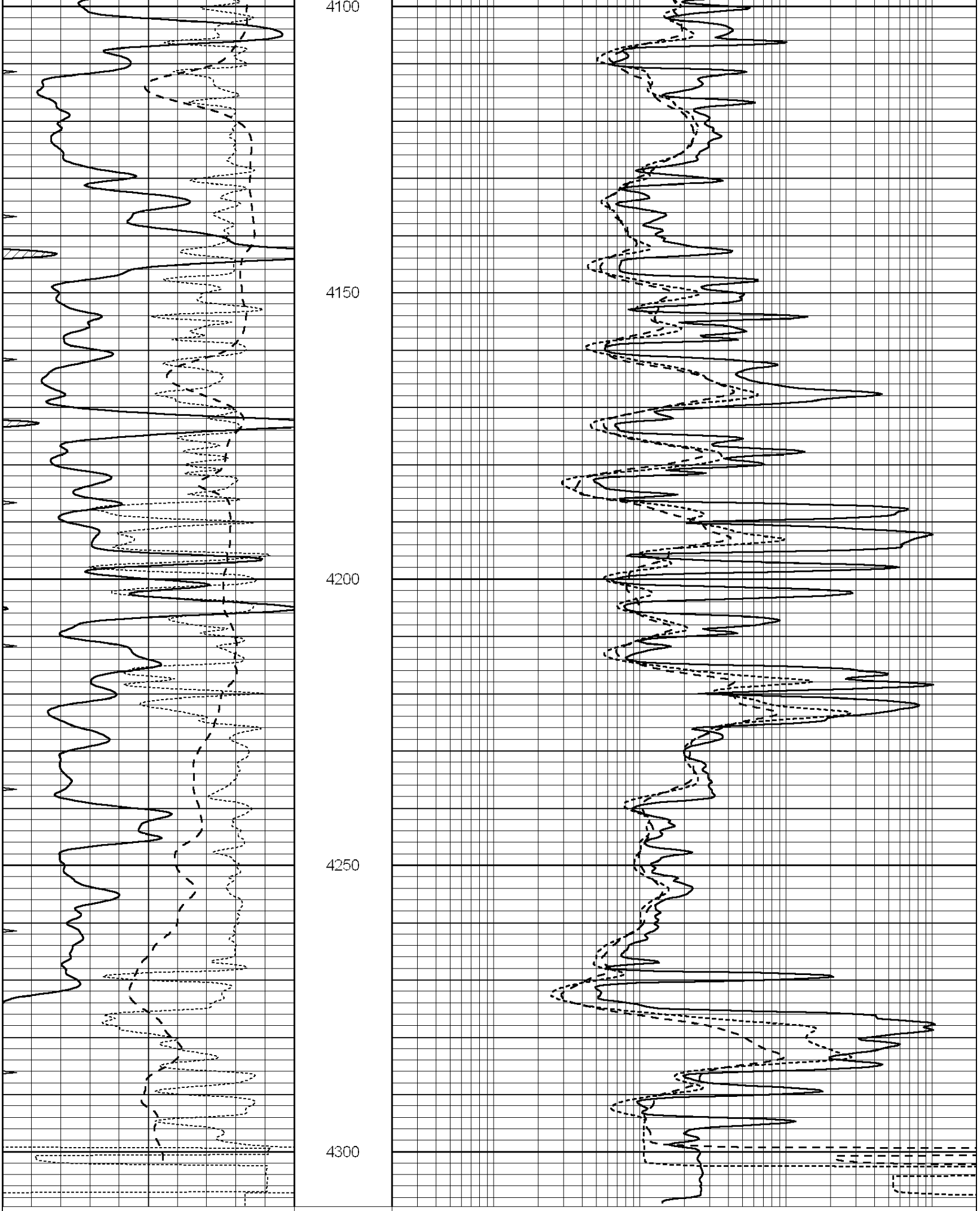
NABORS
COMPLETION & PRODUCTION SERVICES CO.

REPEAT SECTION

Database File:	010827ddn.db
Dataset Pathname:	pass2.1A
Presentation Format:	dil
Dataset Creation:	Sun Mar 03 13:05:15 2013 by Calc Open-Cased 090629
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


4100
4150
4200
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4300
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: 010827ddn.db
Dataset Pathname: pass3.1A
Dataset Creation: Sun Mar 03 14:19:31 2013

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
Surface Cal Performed: Sun Mar 03 13:19:30 2013
Downhole Cal Performed: Sat Jan 19 19:51:38 2013
After Survey Verification Performed: Sat Jan 19 19:51:38 2013

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	630.000	-2.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	700.000	-50.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Sun Mar 03 12:13:18 2013

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1205.77	610.74	cps
Aluminum	2.590	g/cc	271.21	419.72	cps

Spine Angle = 75.89

Density/Spine Ratio = 0.572

	Size		Reading	
Small Ring	7.70	in	4.69	V
Large Ring	14.00	in	6.52	V

Compensated Neutron Calibration Report

Serial Number: NEU_4I
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: Sun Mar 03 13:31:58 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.9000 GAPI/cps