NABORS COMPLETION & PRODUCTION SERVICES CO.

DUAL INDUCTION LOG

Company	MAI OIL OPERATIONS, INC.
Well	G.D. MAIER #10
Field	TRAPP
County	RUSSELL
State	KANSAS

Company MAI OIL OPERATIONS, INC.

Well G.D. MAIER #10

Field TRAPP

County RUSSELL State KANSAS

Location: API # : 15-167-24004-00-00

1610' FNL & 1300' FEL

NW - NW - SE - NE

SEC 15 TWP 15S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1795

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

Drilling Measured From KELLY BUSHING

Other Services: CNL/CDL, MEL

Elevation: K.B. 1803, D.F. 1801, G.L. 1795

Date	12/3/14					
Run Number	ONE					
Depth Driller	3310					
Depth Logger	3312					
Bottom Logged Interval	3310					
Top Log Interval	00					
Casing Driller	8 5/8 @ 516'					
Casing Logger	515'					
Bit Size	7.875					
Type Fluid in Hole	CHEMICAL MUD					
Density / Viscosity	9.4/68					
pH / Fluid Loss	10.0/8.8					
Source of Sample	FLOWLINE					
Rm @ Meas. Temp	0.70 @ 66F					
Rmf @ Meas. Temp	0.52 @ 66F					
Rmc @ Meas. Temp	0.84 @ 66F					
Source of Rmf / Rmc	MEASURED					
Rm @ BHT	0.42 @ 110F					
Time Circulation Stopped	2 HOURS					
Time Logger on Bottom						
Maximum Recorded Temperature	110F					
Equipment Number	3802					
Location	HAYS, KS.					
Recorded By	IAN MABB					
Witnessed By	WYATT URBAN					

CHLORIDES 7,000 PPM

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Comments

NABORS COMPLETION & PRODUCTION SERVICES CO.

785 (628 - 6395)

THANK YOU FOR YOUR BUSINESS

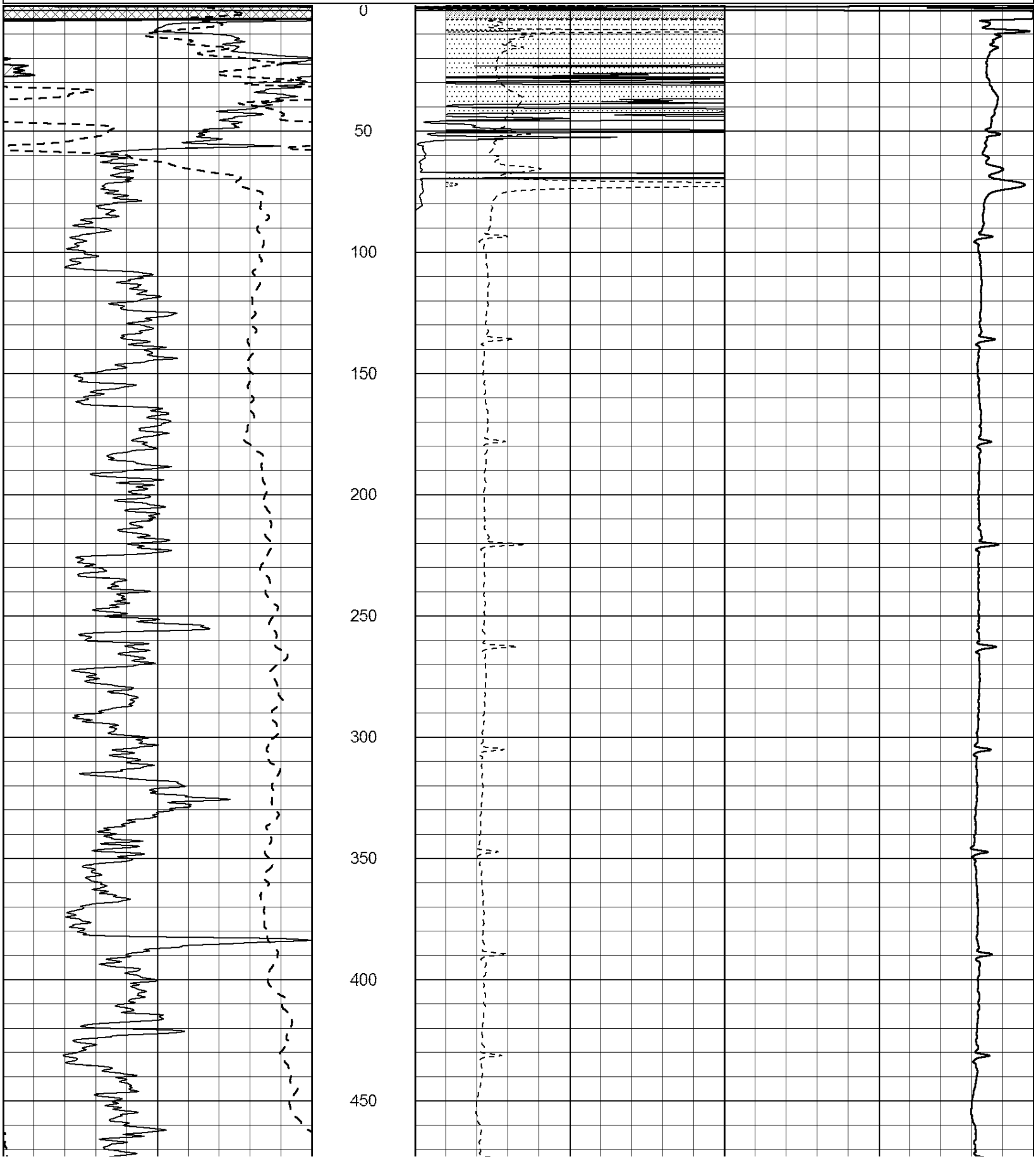
DIRECTIONS : RUSSELL, KS. - SOUTH 6 MILES TO MITCHELL RD. - WEST 1/2 MILE - SOUTH INTO

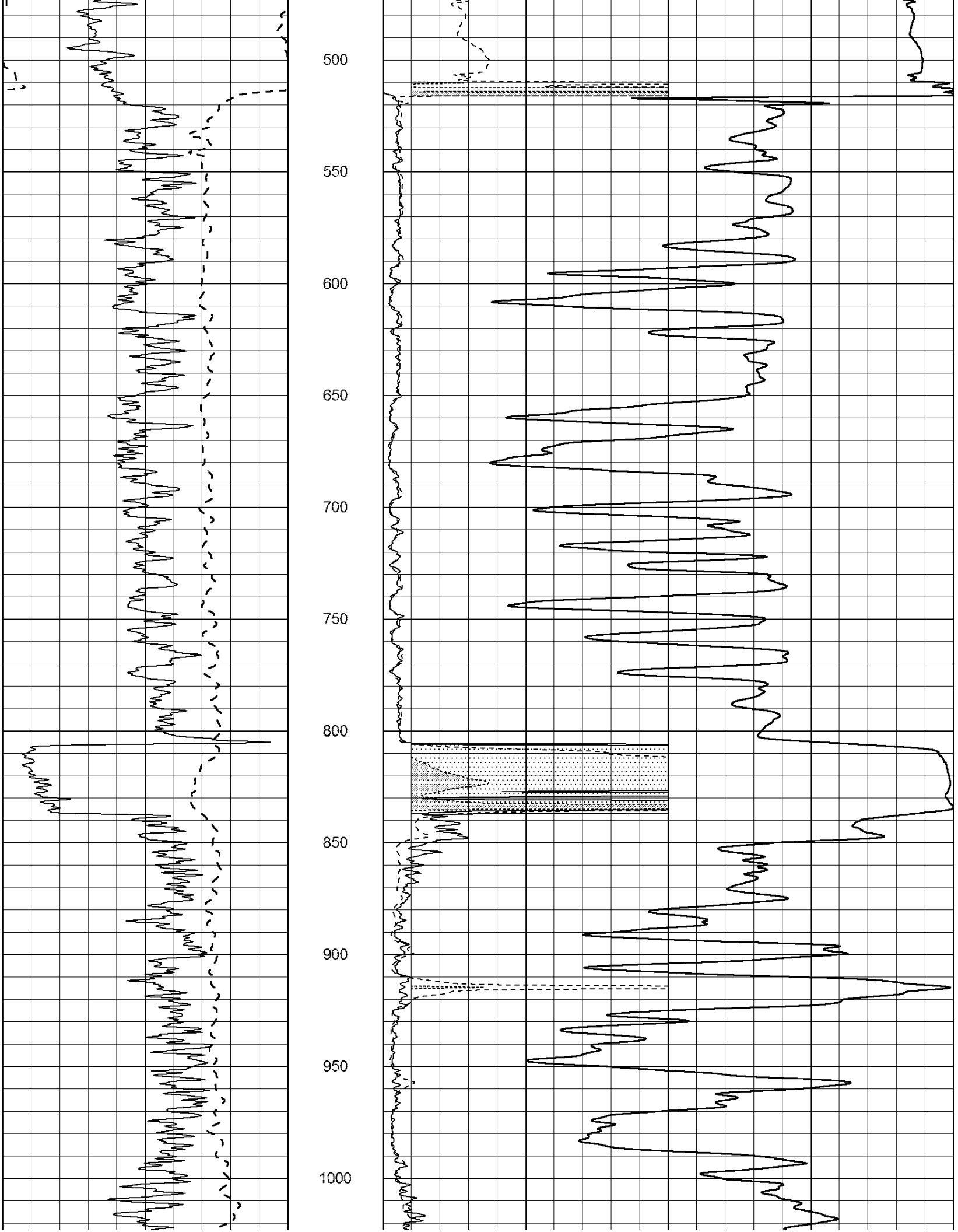
Database File:	26268ddn.db
Dataset Pathname:	pass3.4
Presentation Format:	_dil2
Dataset Creation:	Thu Dec 04 00:10:57 2014 by Calc Open-Cased 090629

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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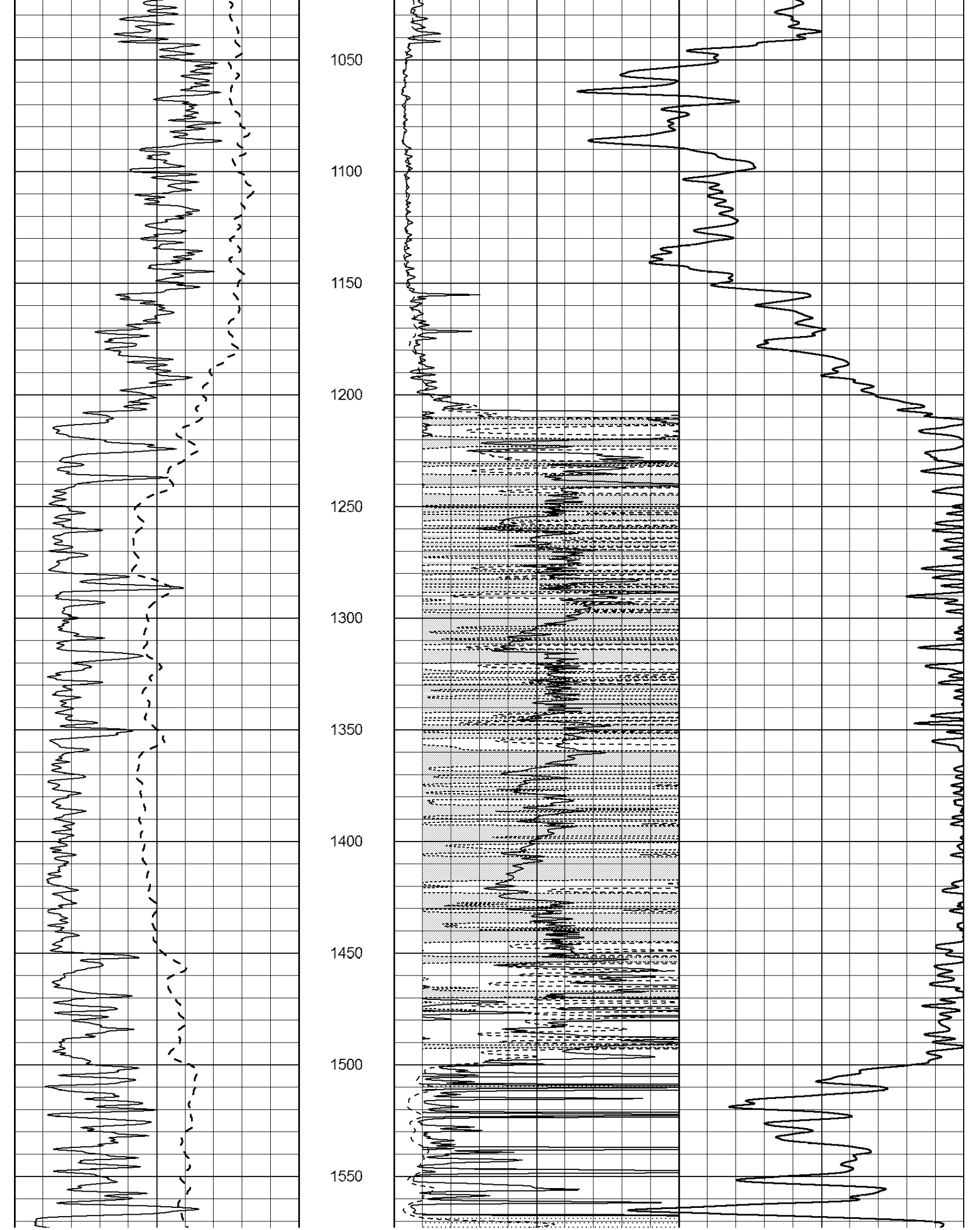
1000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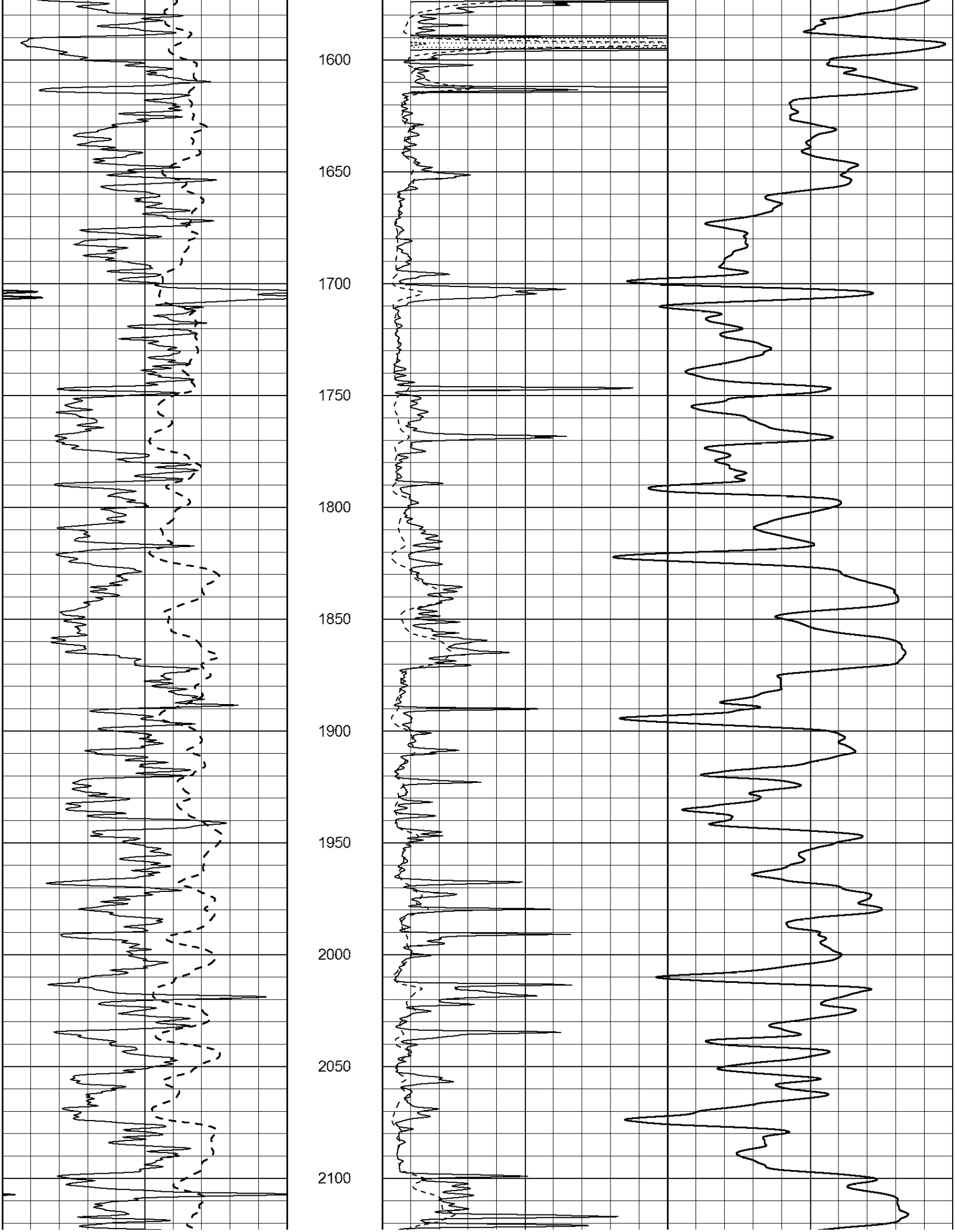
1200
1250
1300
1350
1400
1450
1500
1550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1850
1900
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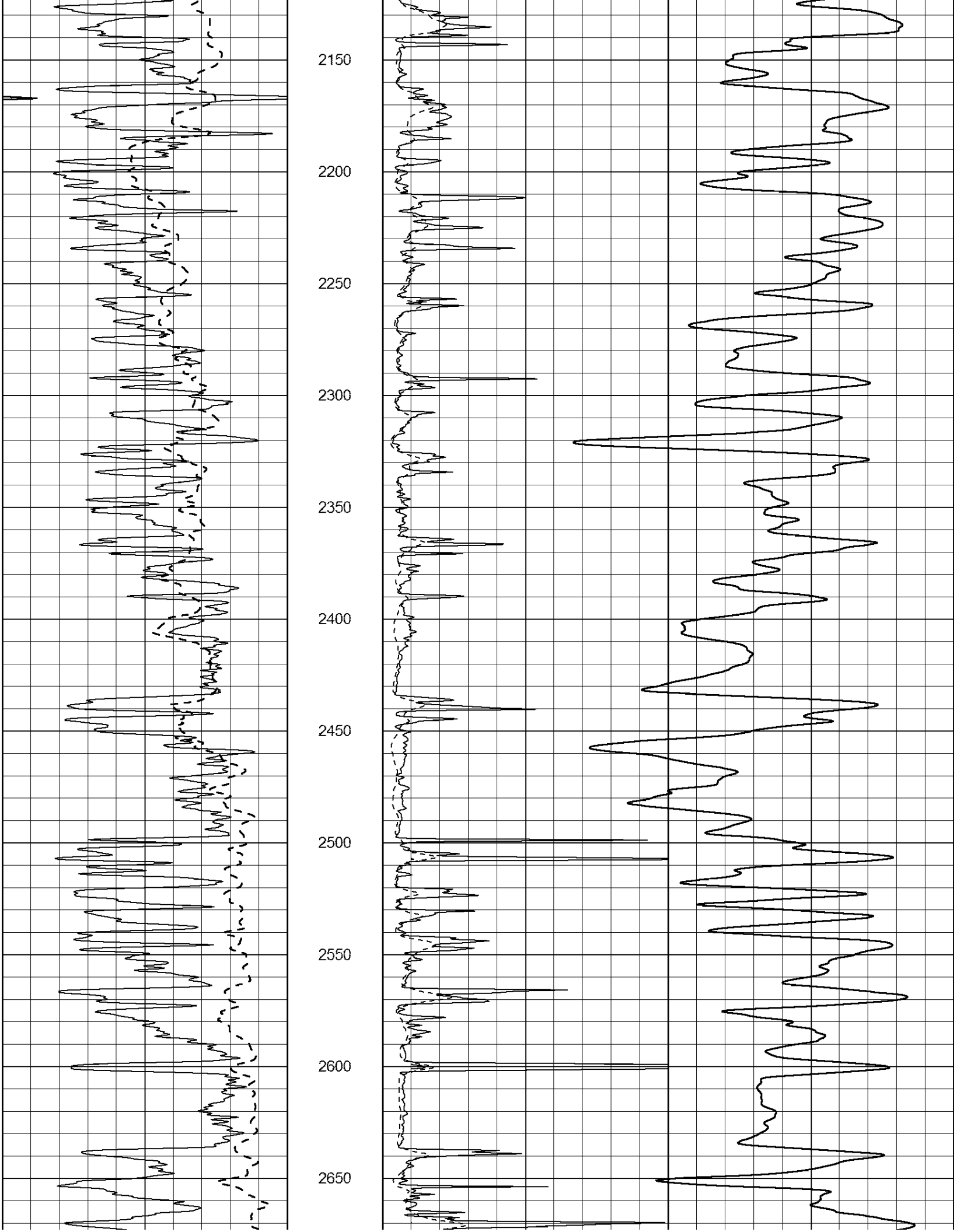
2000
2050
2100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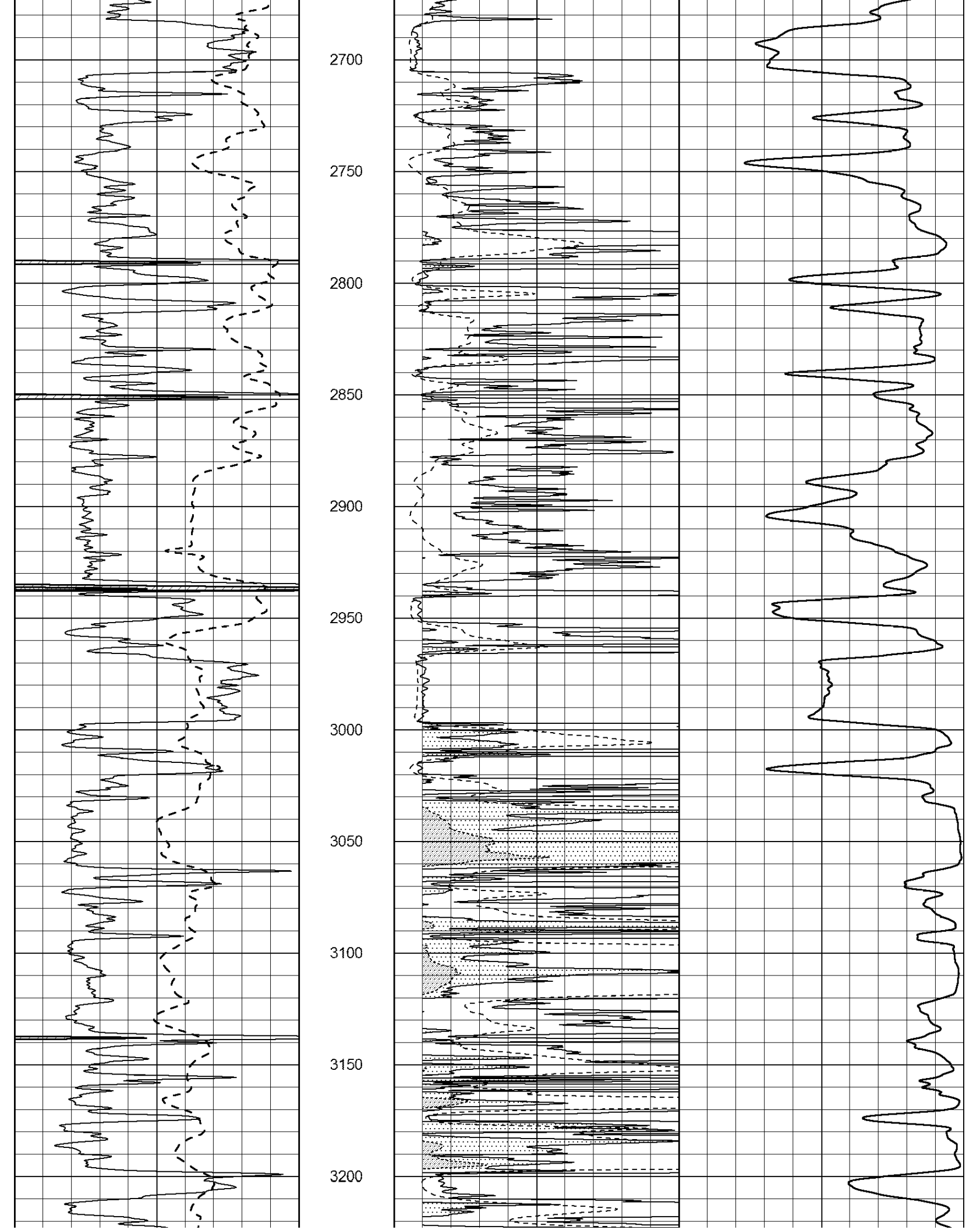
2250
2300
2350
2400
2450
2500
2550
2600
2650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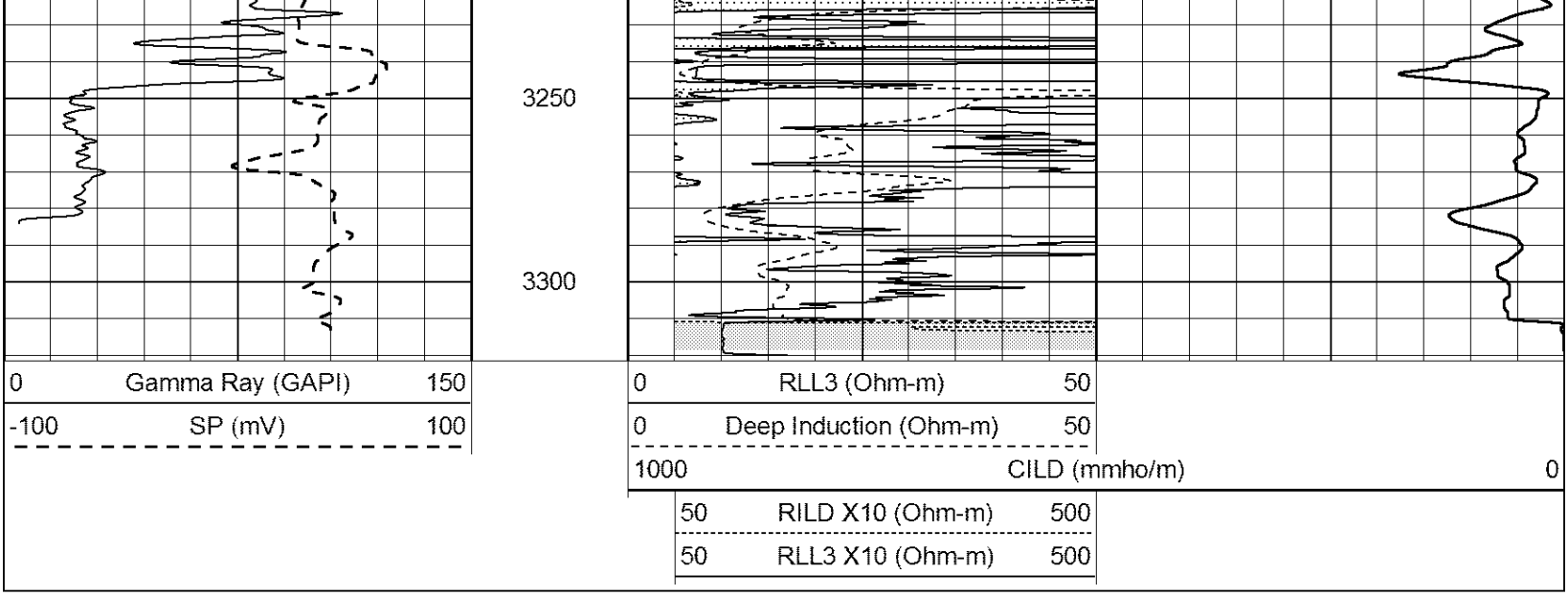
2900
2950
3000
3050
3100
3150
3200



Database File: 26268ddn.db
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Presentation Format: _dil
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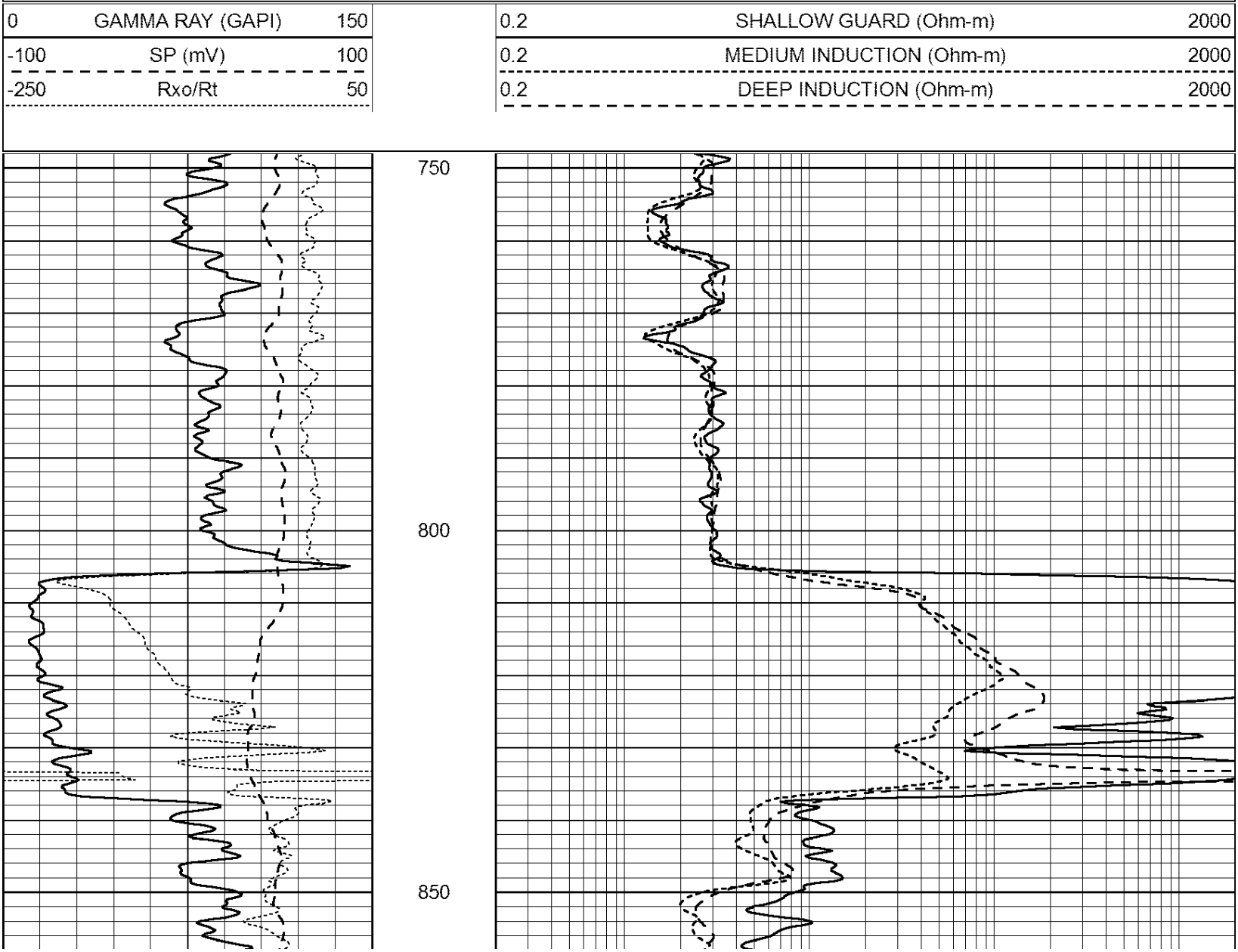
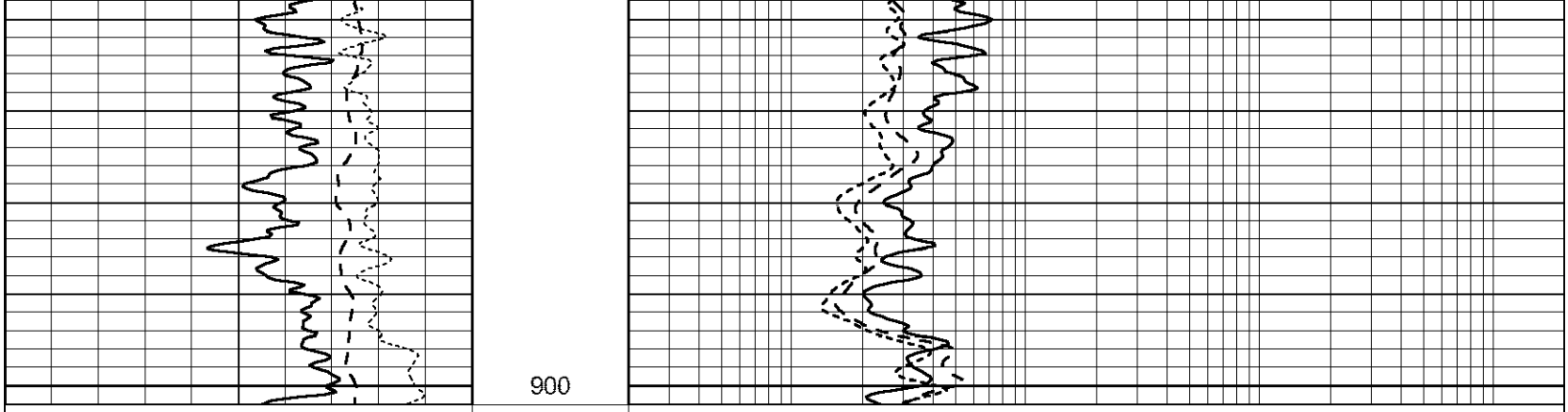
Charted by: Depth in Feet scaled 1:240





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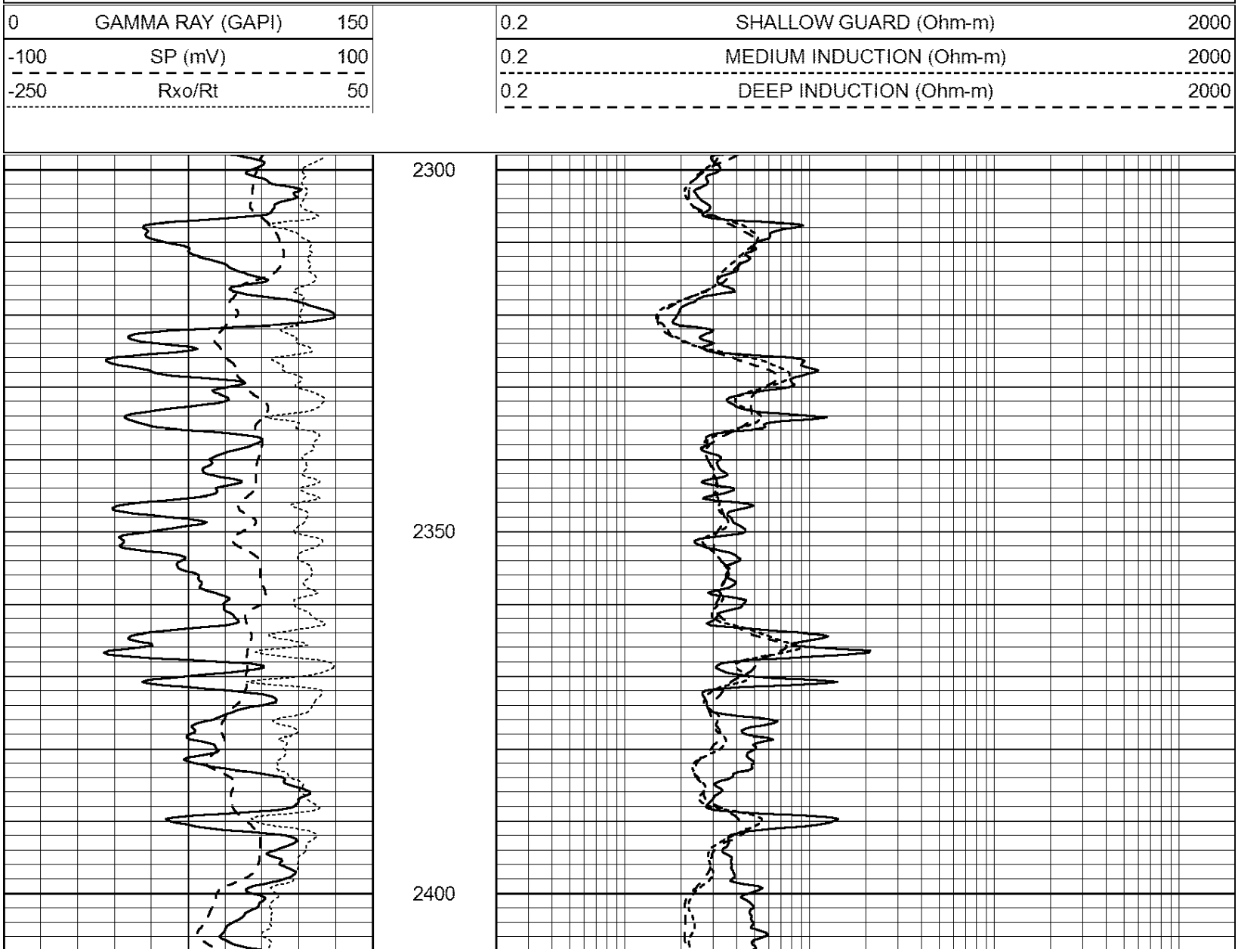
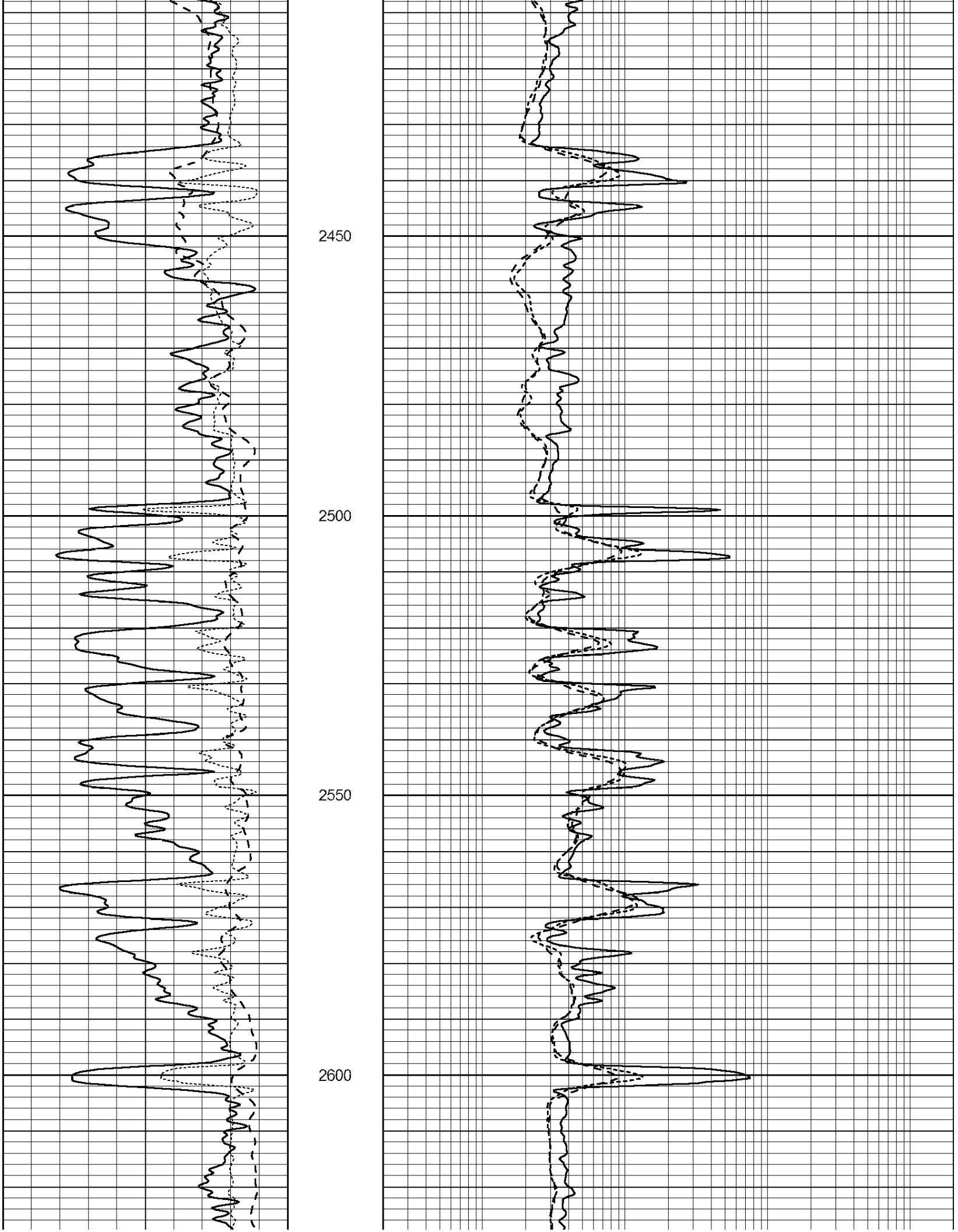
Charted by: Depth in Feet scaled 1:240

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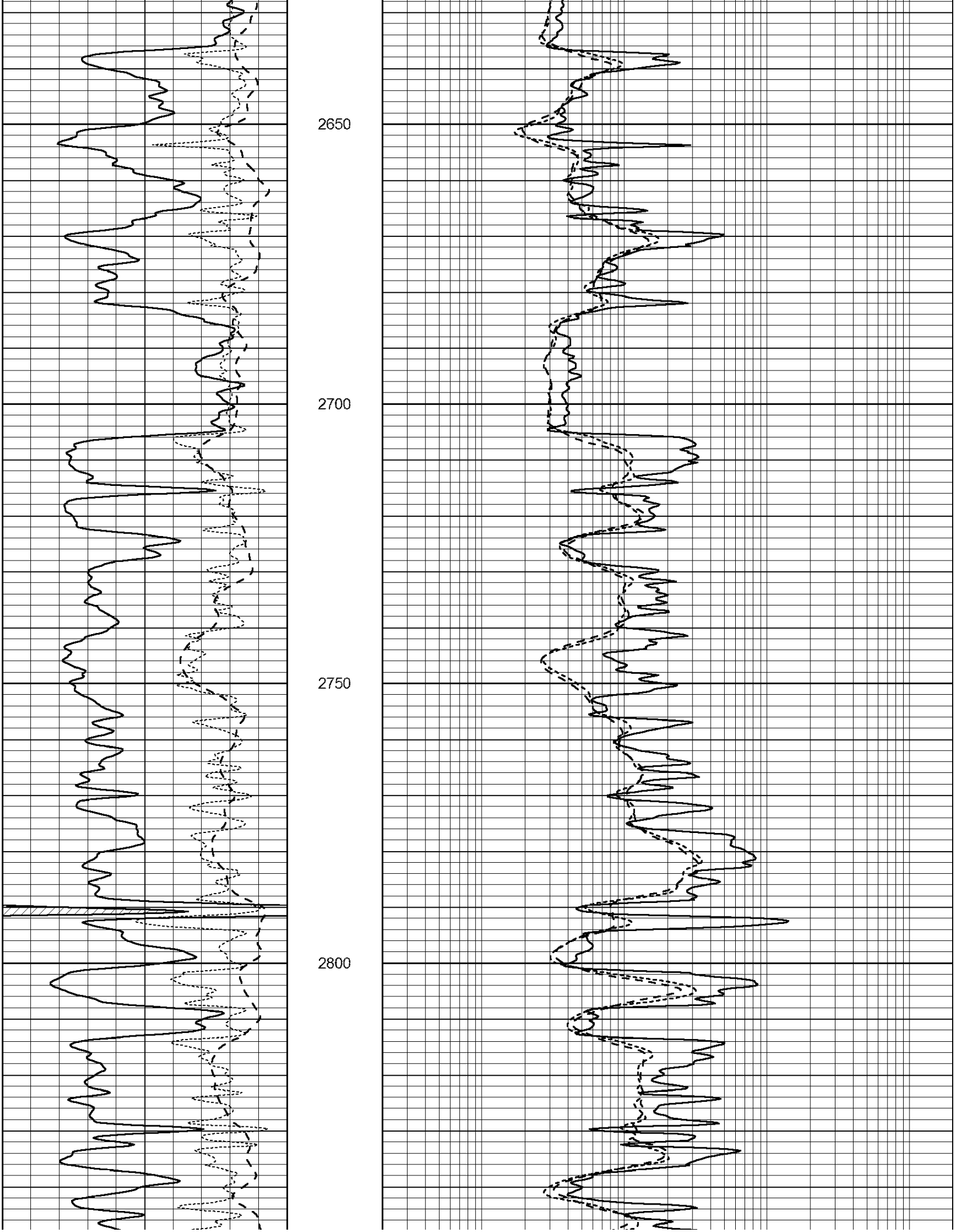
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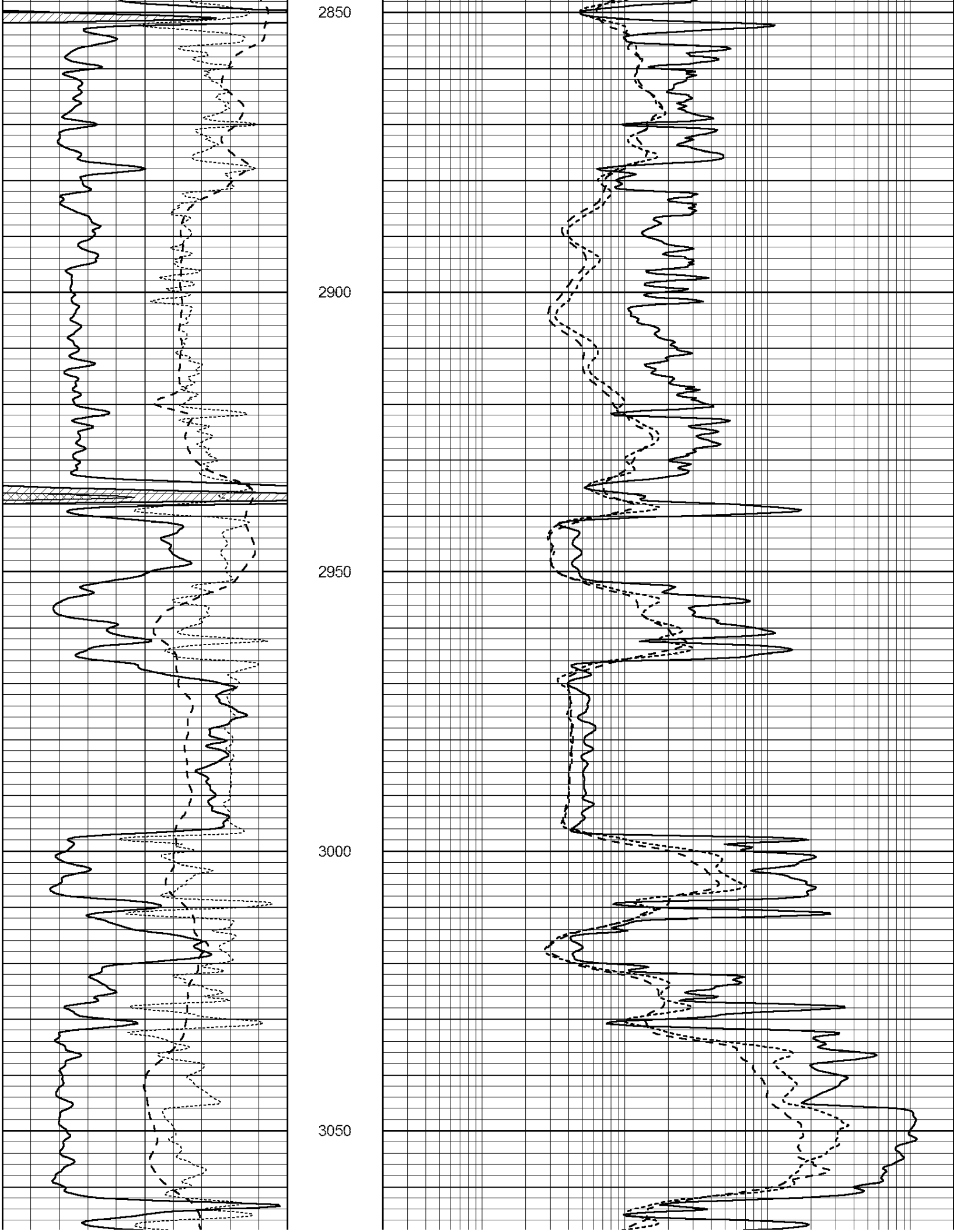
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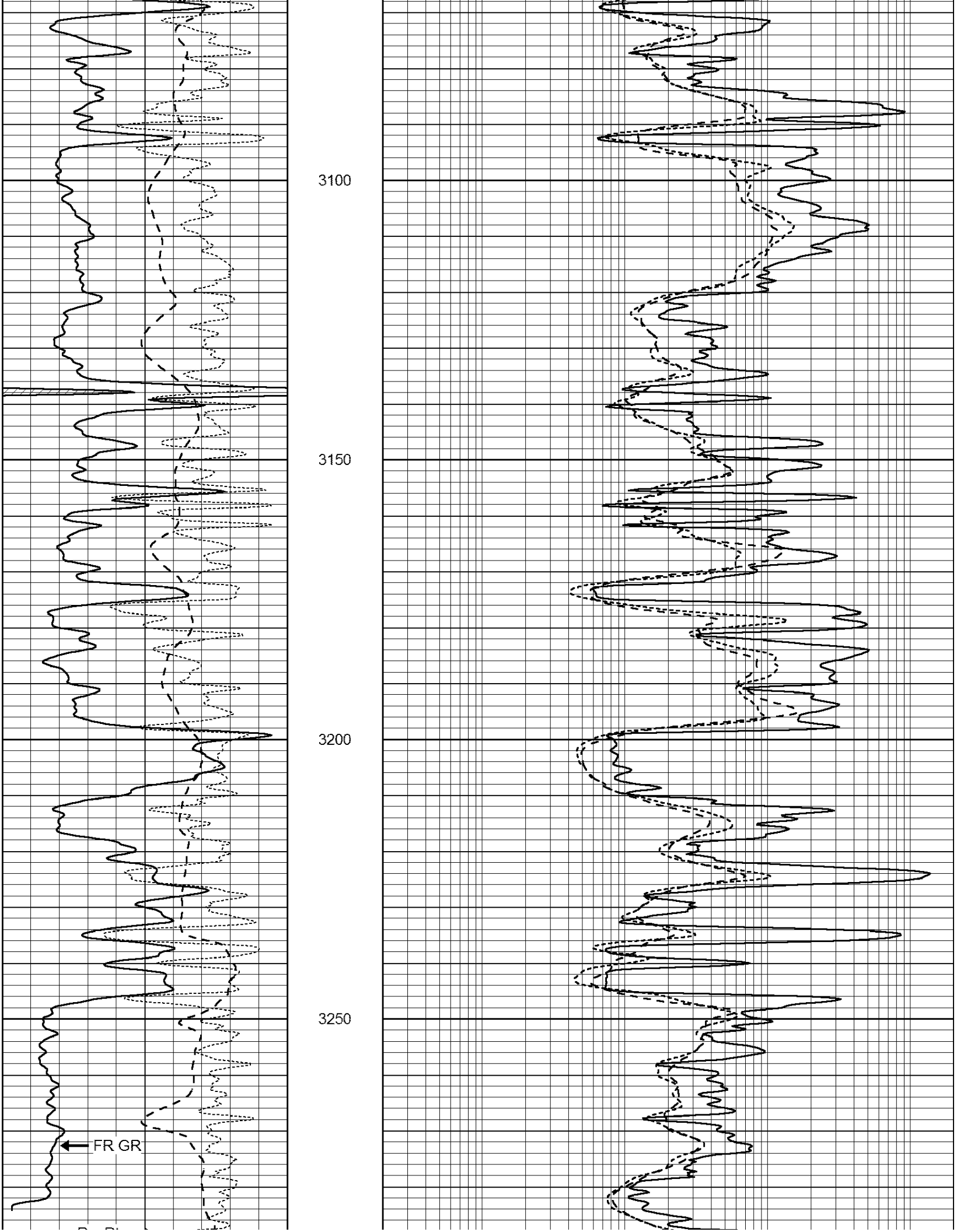
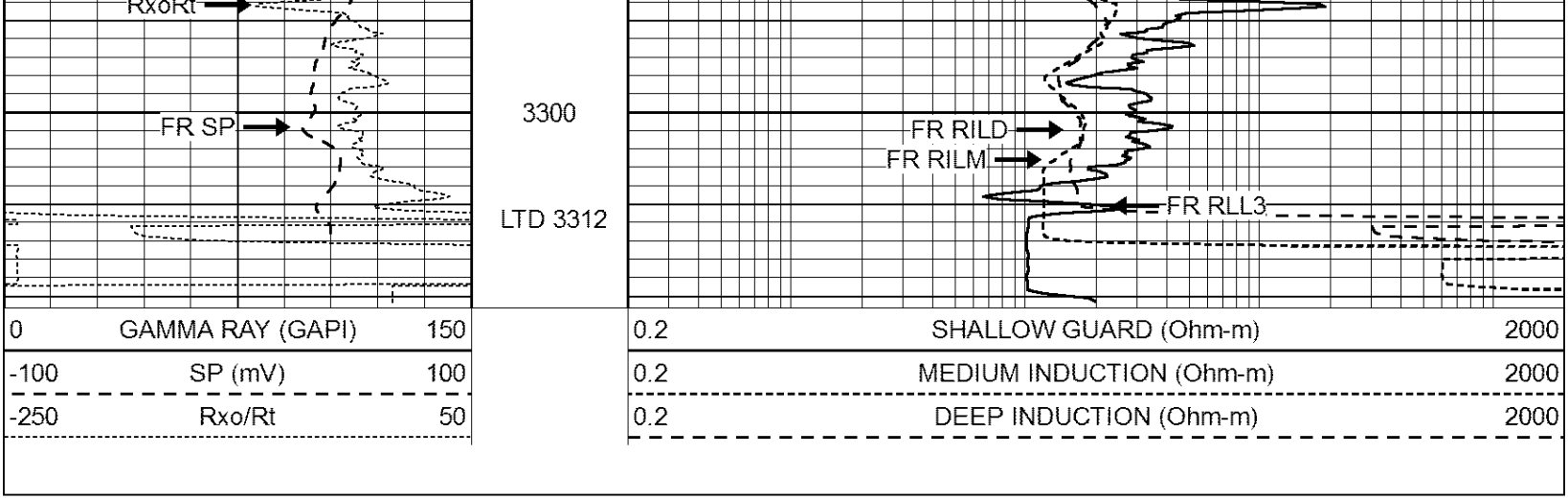

3100
3150
3200
3250
FR GR



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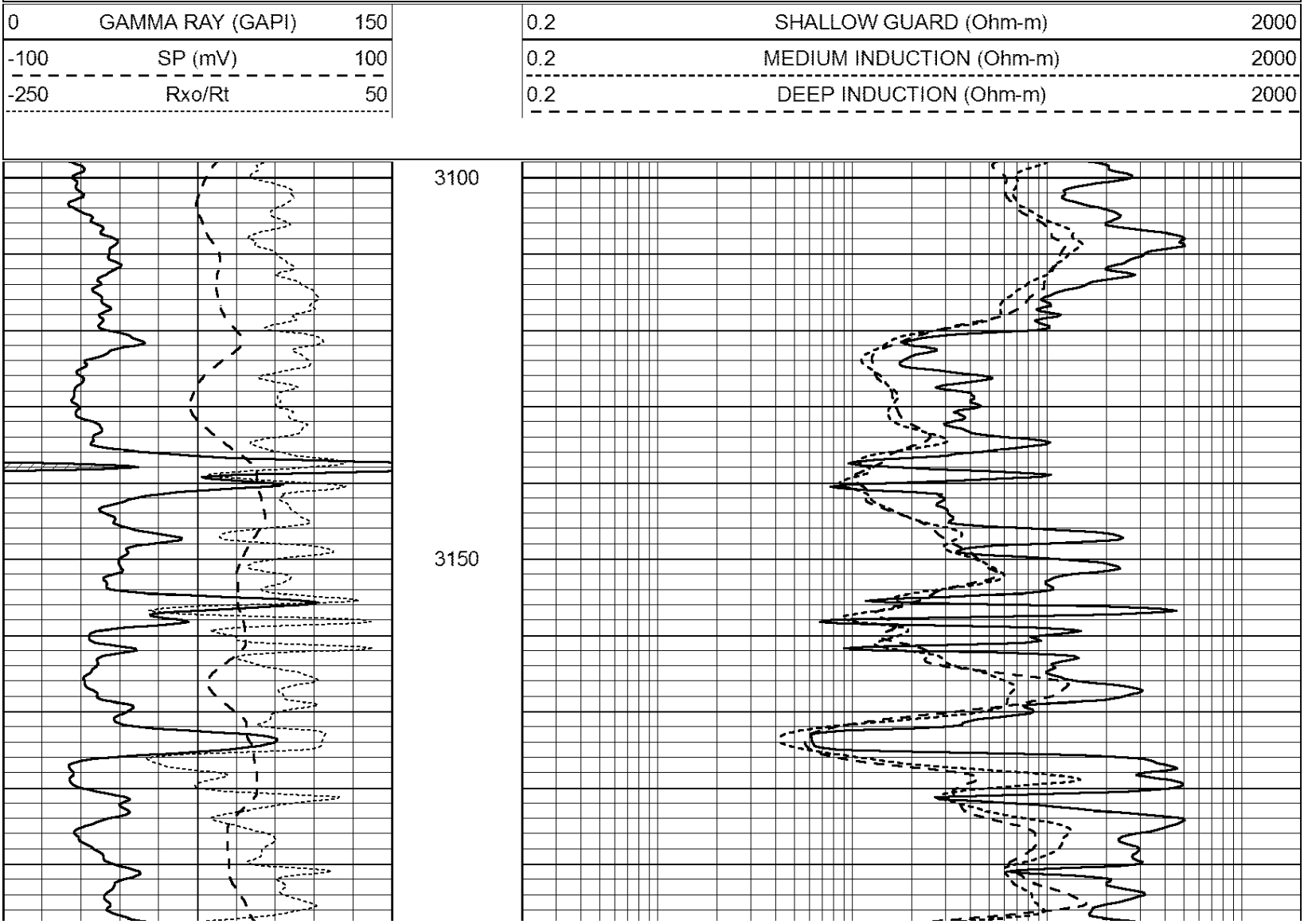
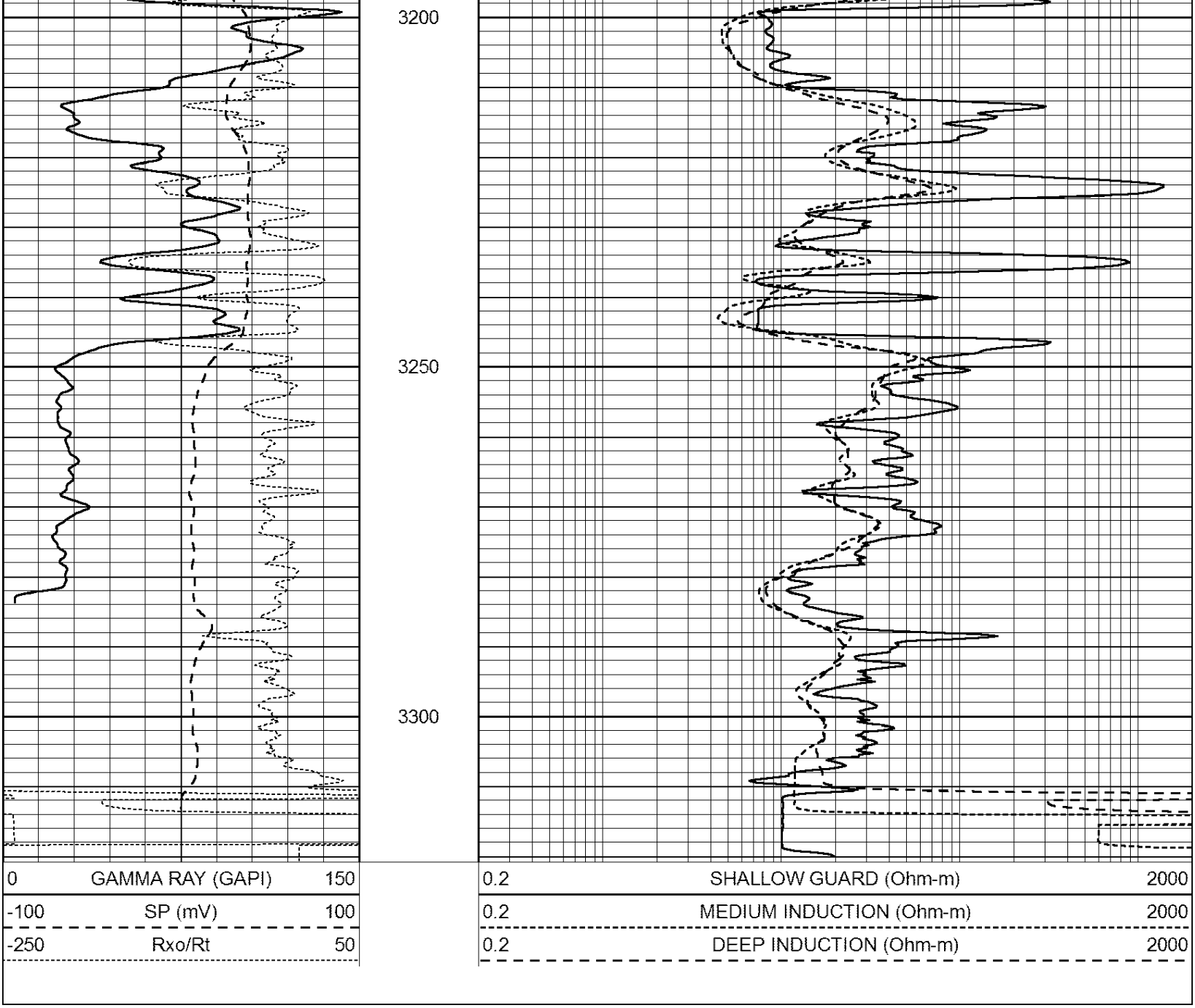
REPEAT SECTION

Database File: 26268ddn.db
Dataset Pathname: pass2.1
Presentation Format: _dil
Dataset Creation: Wed Dec 03 23:04:33 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 26268ddn.db
Dataset Pathname: pass3.4
Dataset Creation: Thu Dec 04 00:10:57 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Mon Nov 24 11:09:57 2014
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	520.000	14.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	570.000	-28.000
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: GEAR5-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Sat Nov 29 00:24:07 2014
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	848.07	511.00	cps
Aluminum	2.610	g/cc	183.22	341.84	cps

Spine Angle = 75.30 Density/Spine Ratio = 0.568

	Size		Reading	
Small Ring	8.20	in	1.64	V
Large Ring	14.00	in	2.93	V

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Compensated Neutron Calibration Report

Serial Number: 080620
Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	46001	
Tool Model:	Probe1	
Performed:	Mon Nov 24 09:45:18 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2600	GAPI/cps