NABORS COMPLETION & PRODUCTION SERVICES CO.

DUAL INDUCTION LOG

Company	TRANS PACIFIC OIL CORPORATION
Well	HAGANS "A" #1-11
Field	WILDCAT
County	LANE
State	KANSAS

Company TRANS PACIFIC OIL CORPORATION

Well HAGANS "A" #1-11

Field WILDCAT

County LANE State KANSAS

Location: API # : 15-101-22458-00-00

NW 1/4, 3300' FSL & 1320' FWL

S2 -NW

SEC 11 TWP 17S RGE 27W

Other Services: CNL/CDL, MEL

Permanent Datum	GROUND LEVEL	Elevation	2596
Log Measured From	KELLY BUSHING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING		

Elevation: K.B. 2605, D.F. 2603, G.L. 2596

Date	9-5-13		
Run Number	ONE		
Depth Driller	4570		
Depth Logger	4572		
Bottom Logged Interval	4570		
Top Log Interval	00		
Casing Driller	8 5/8 @ 222		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,900	
Density / Viscosity	9.1 / 60		
pH / Fluid Loss	11.0 / 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.9 @ 95F		
Rmf @ Meas. Temp	0.68 @ 95F		
Rmc @ Meas. Temp	1.08 @ 95F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.70 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	MIKE KIDWELL		

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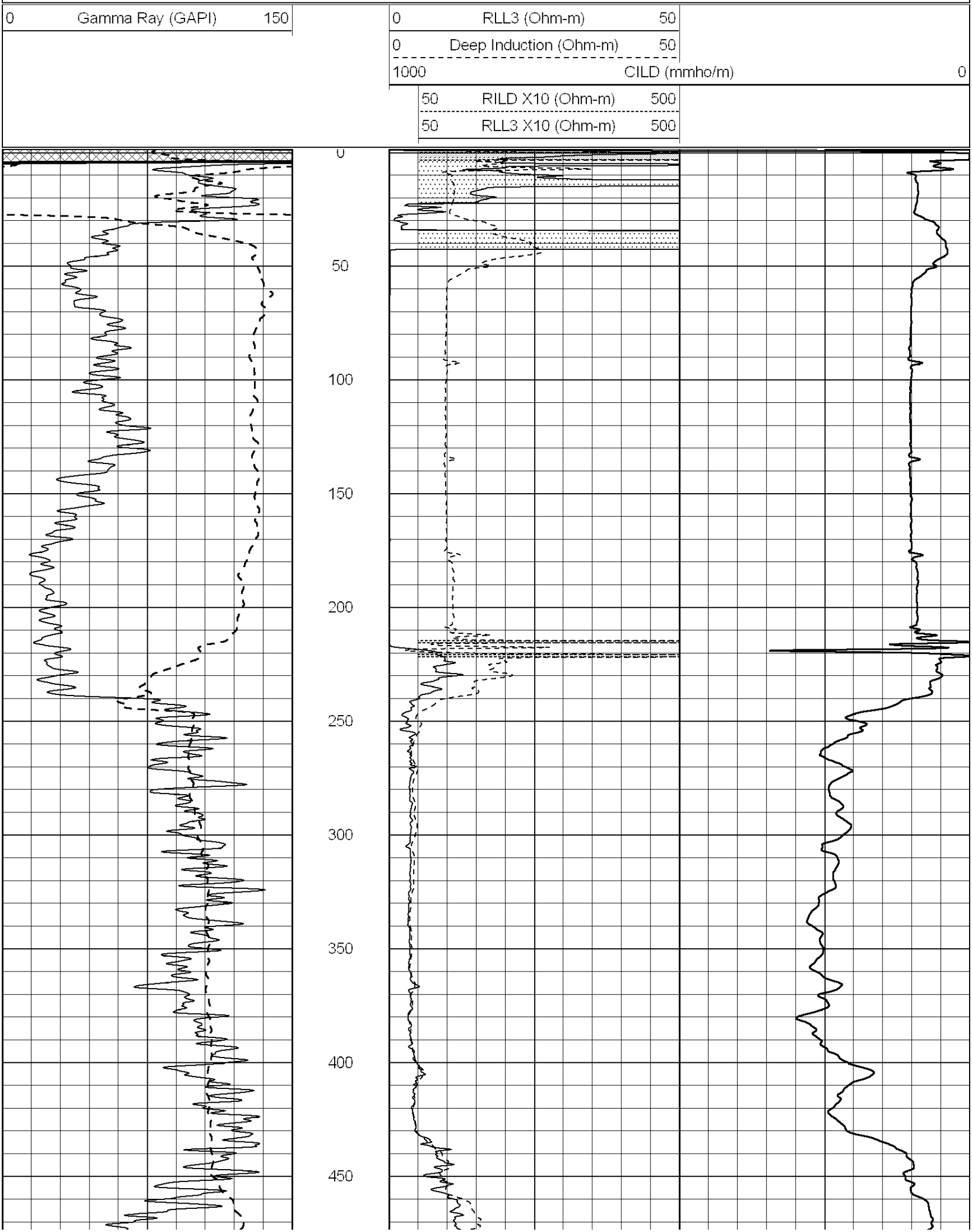
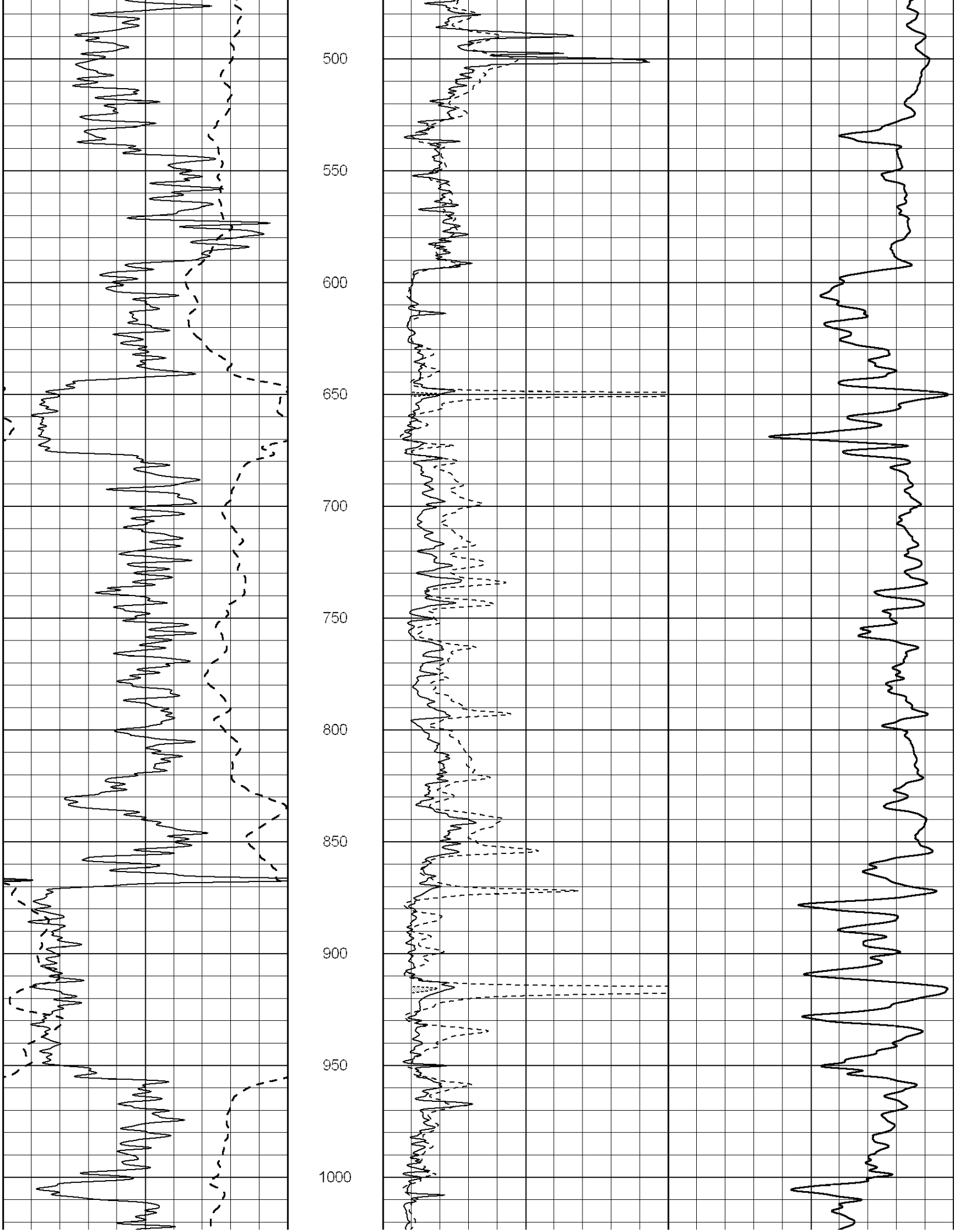
Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: PENDENNIS, KS. EAST TO SCOUT RD. - 4 1/4 SOUTH TO RD 218 - EAST INTO 3 MILES

Database File:	011713ddn.db
Dataset Pathname:	pass3.3
Presentation Format:	_dil2
Dataset Creation:	Thu Sep 05 00:48:18 2013 by Calc Open-Cased 090629

Charted by: Depth in Feet scaled 1:600

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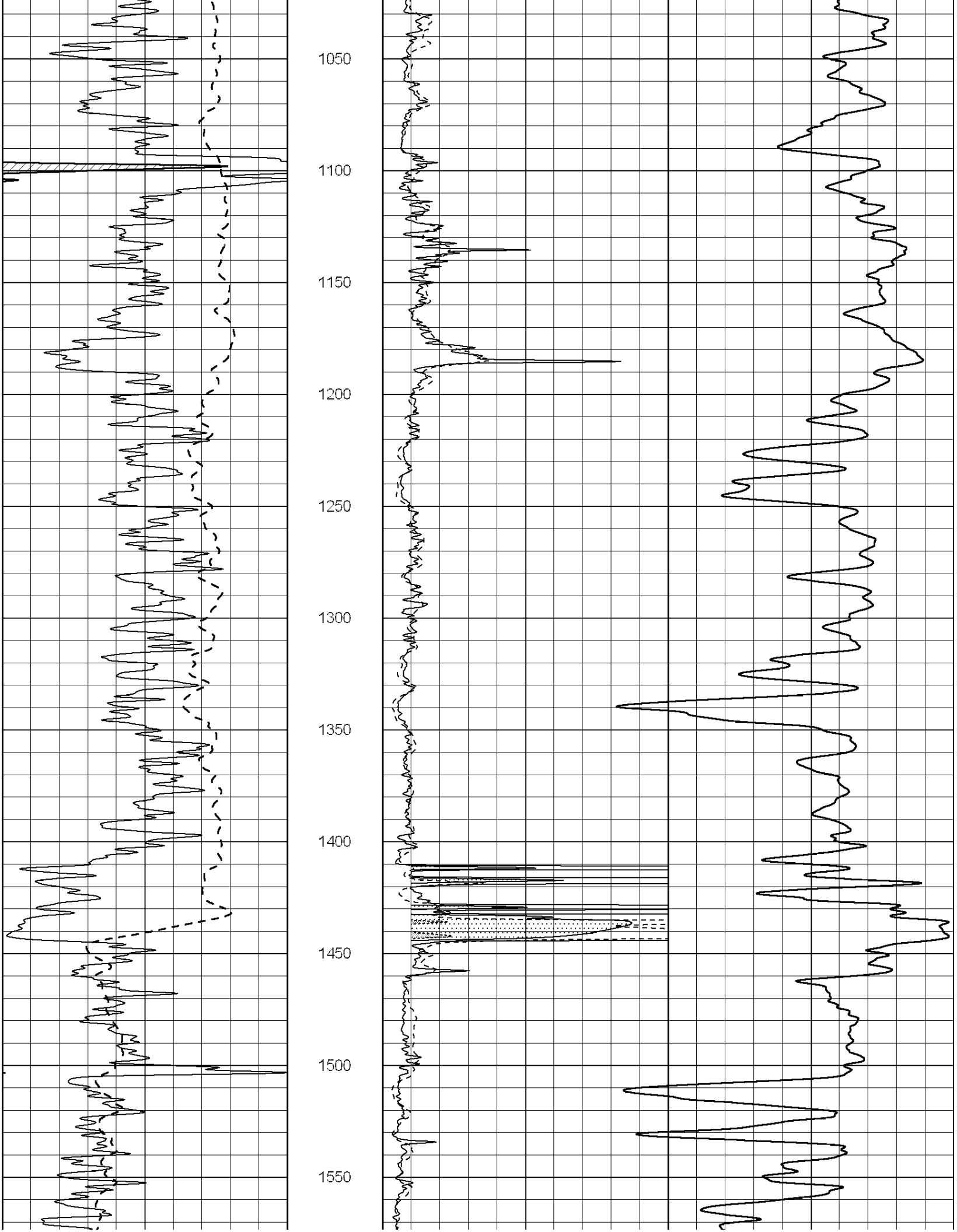
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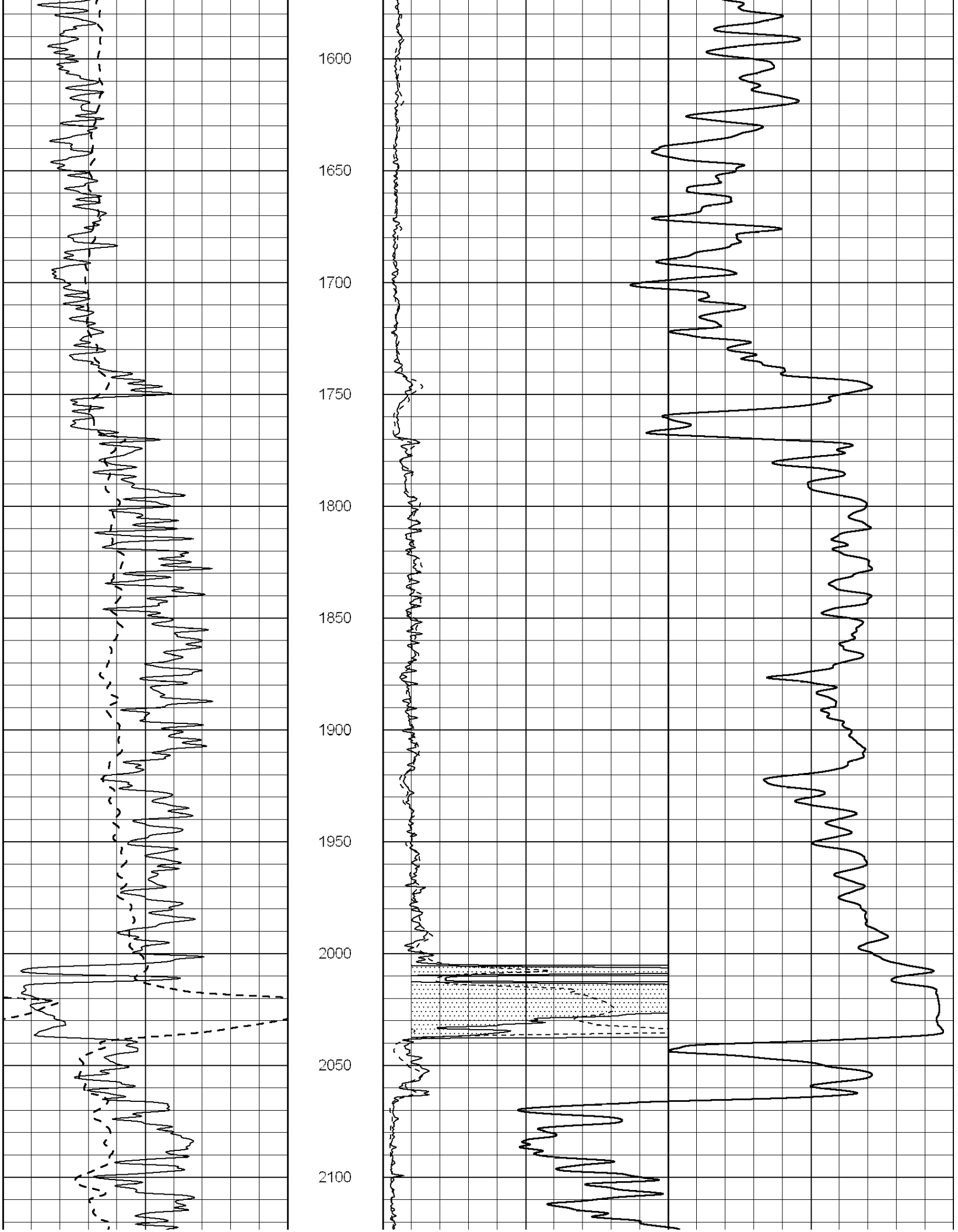
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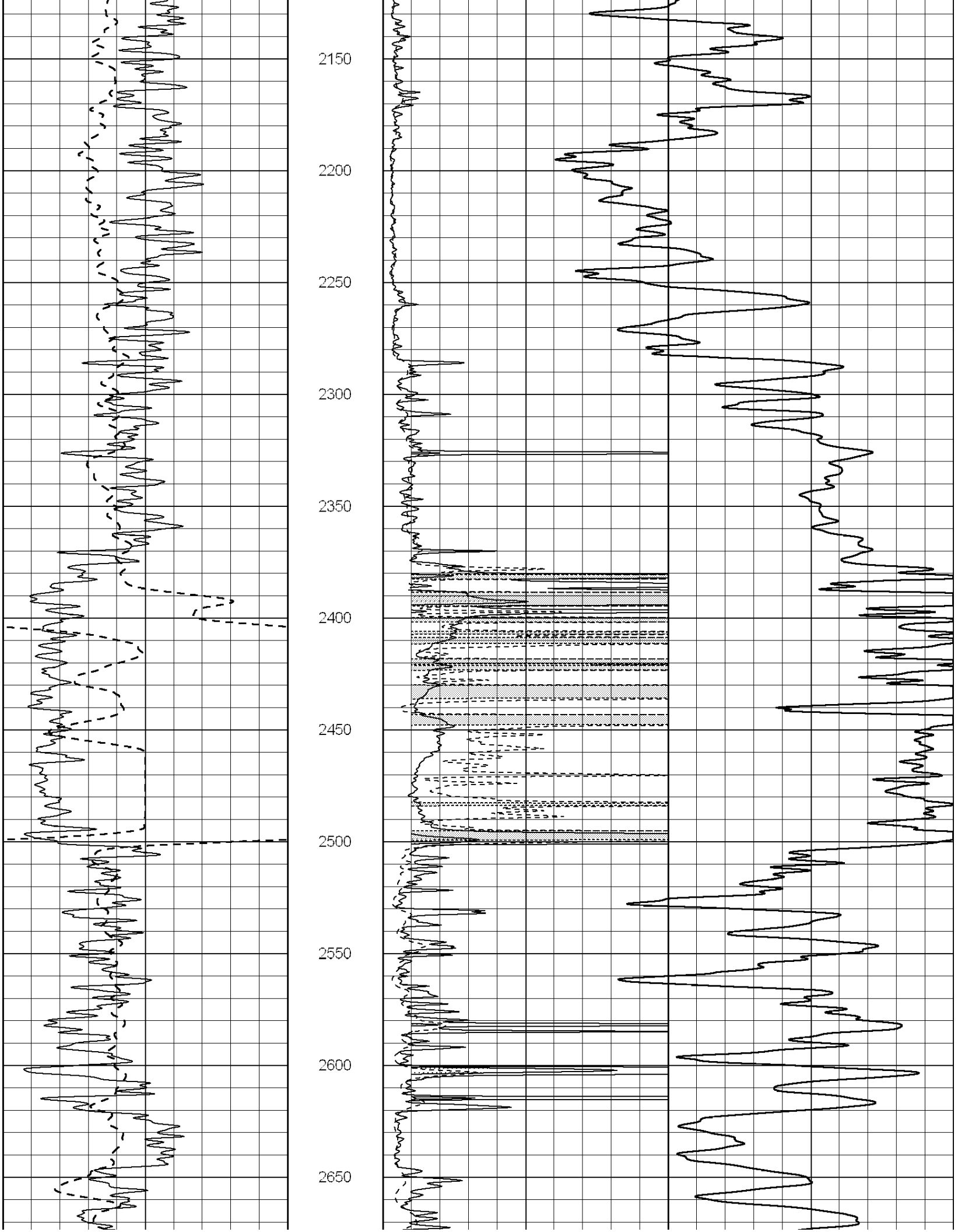
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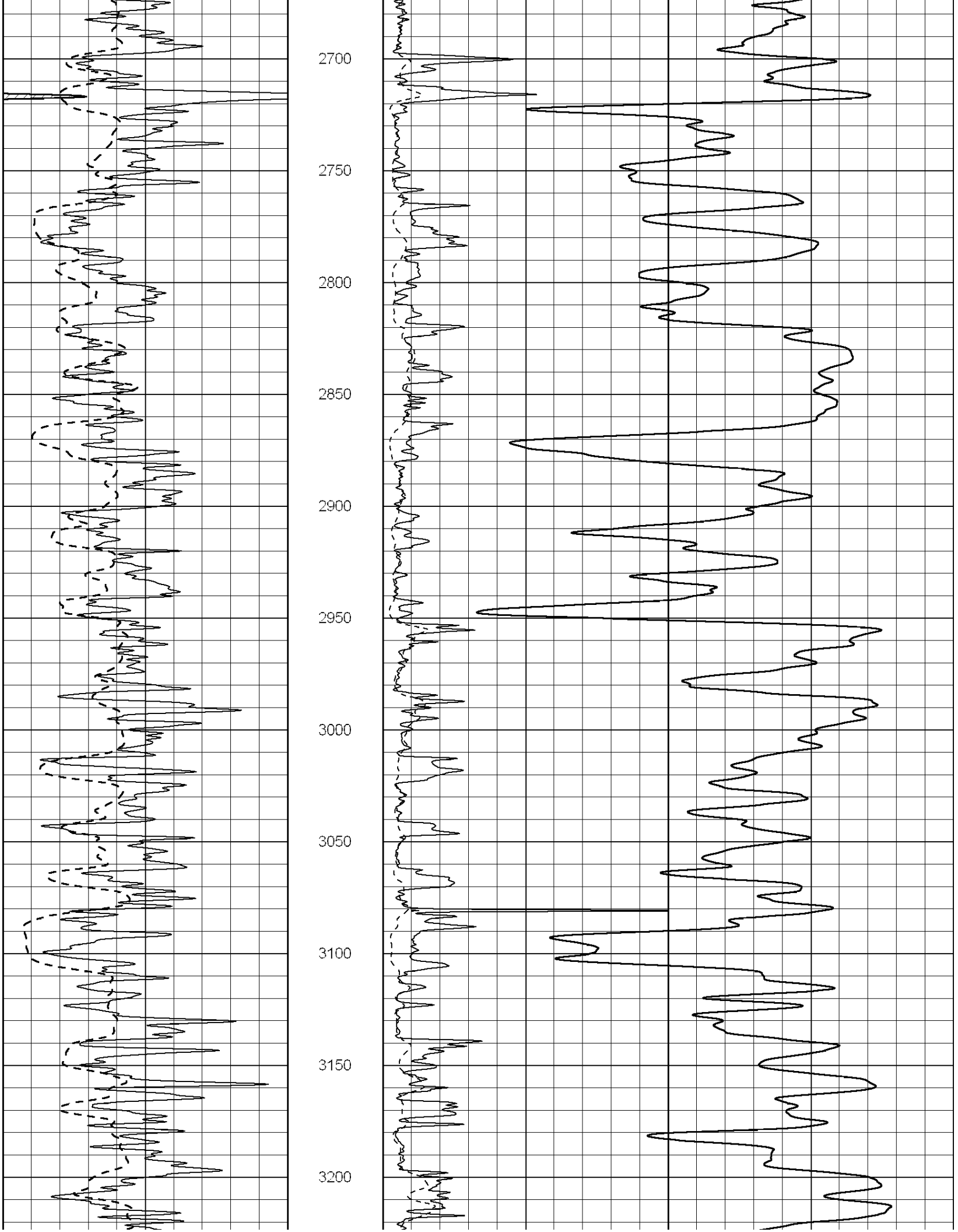
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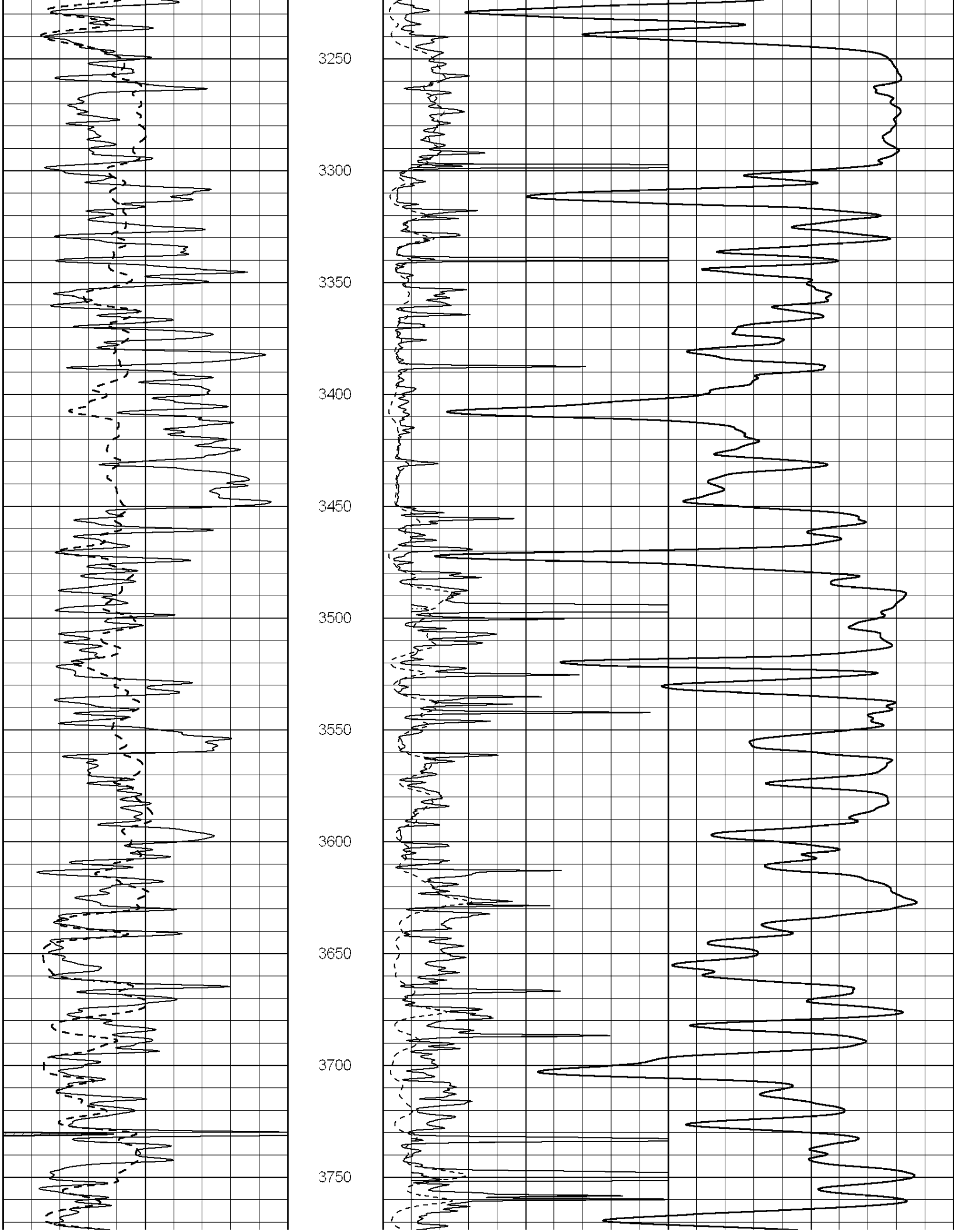
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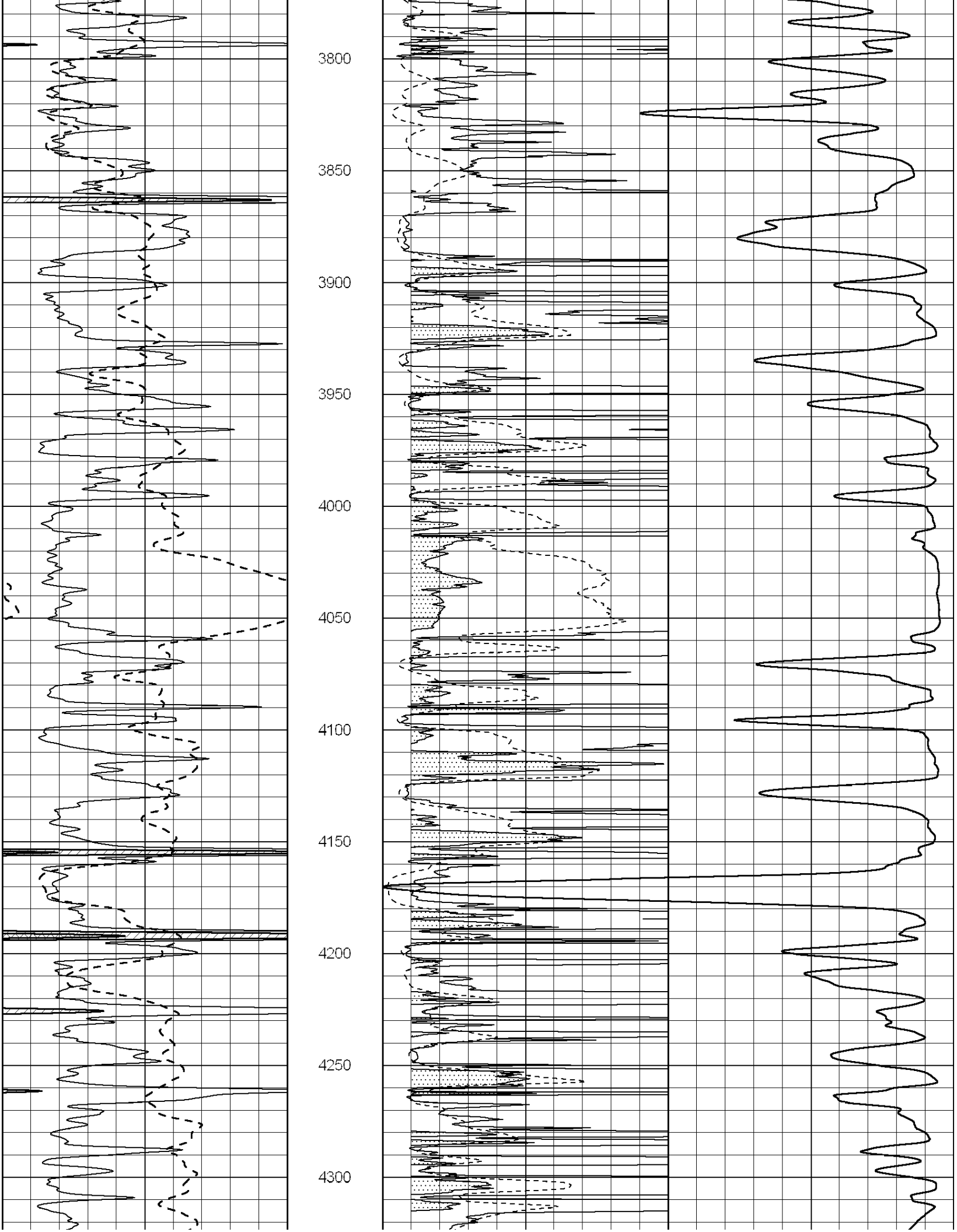
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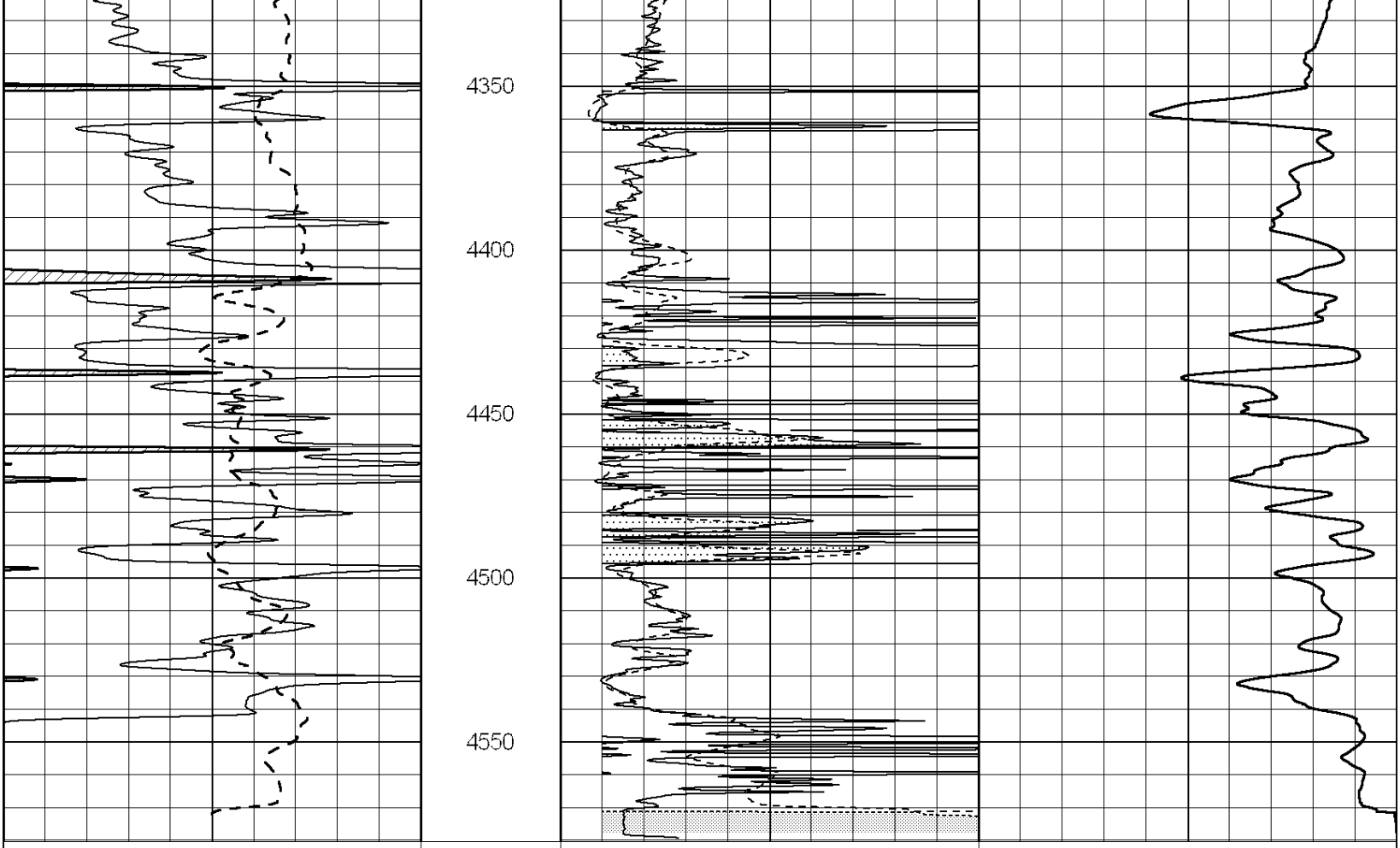
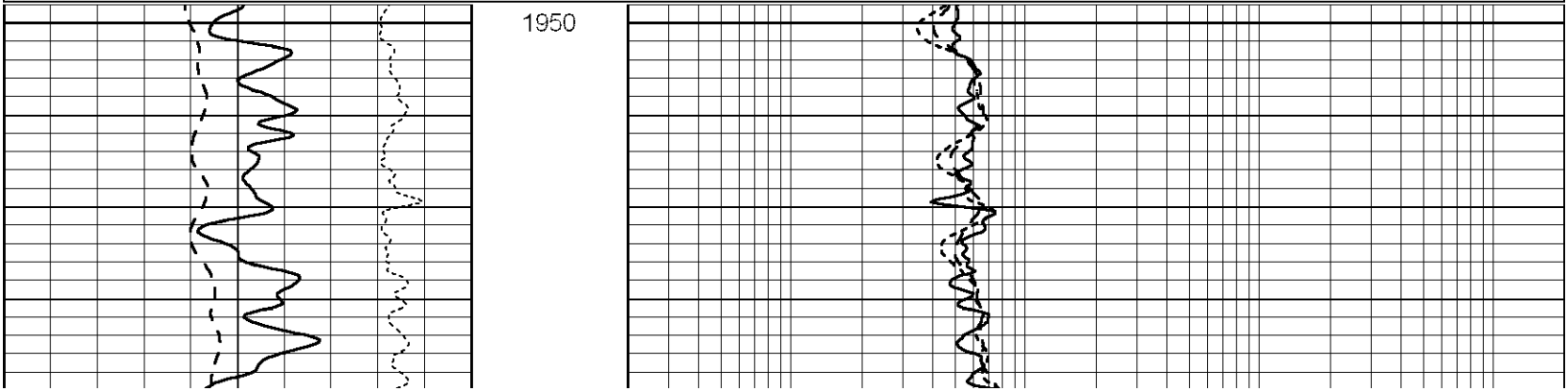
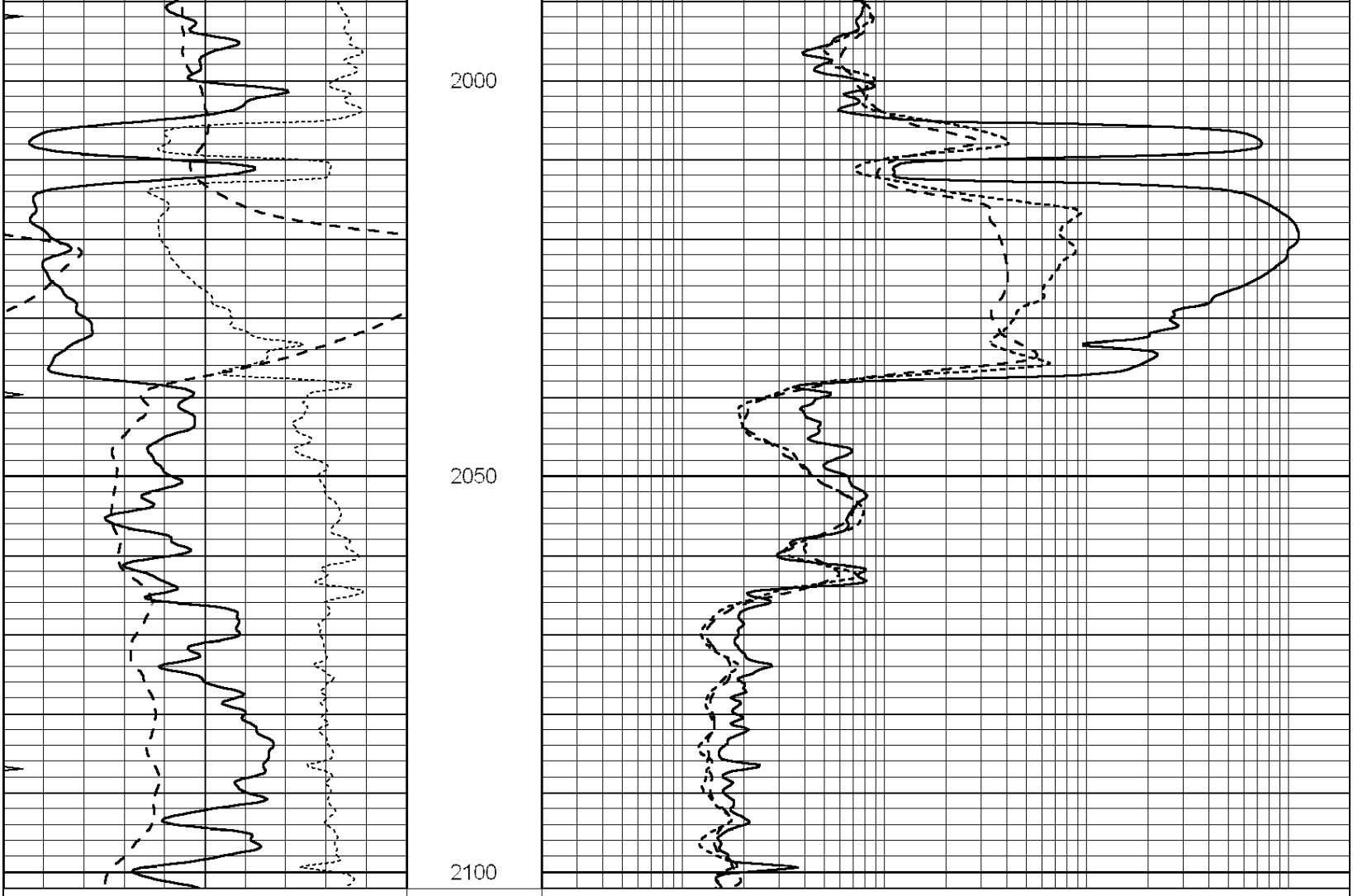


Database File: 011713ddn.db
Dataset Pathname: pass3.3
Presentation Format: _dil
Dataset Creation: Thu Sep 05 00:48:18 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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





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Presentation Format: _dil
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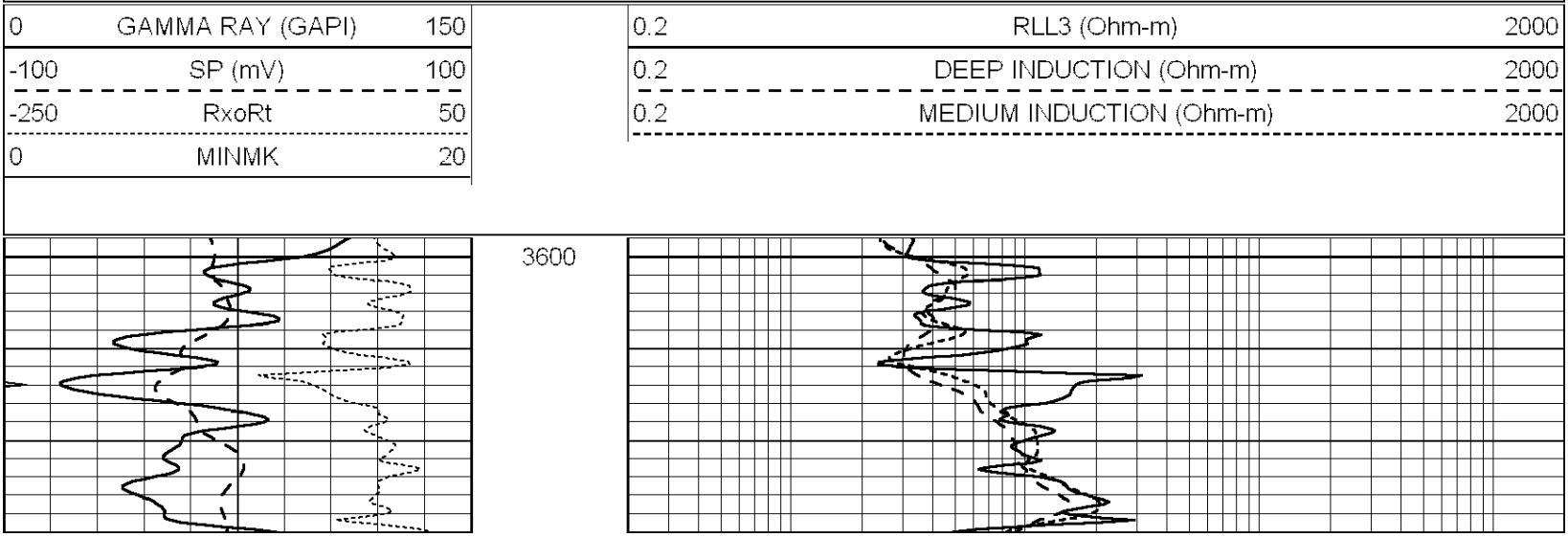
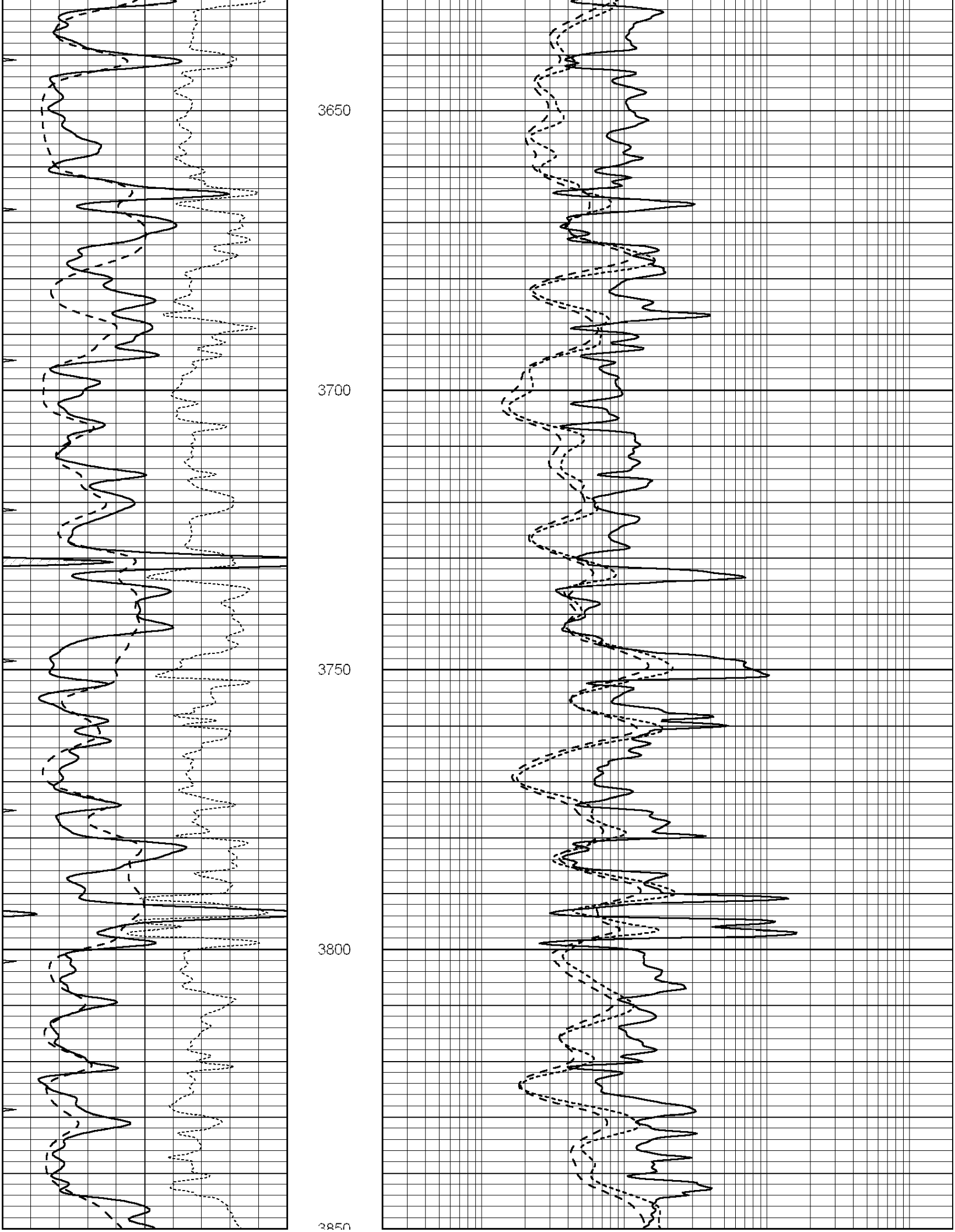
Charted by: Depth in Feet scaled 1:240

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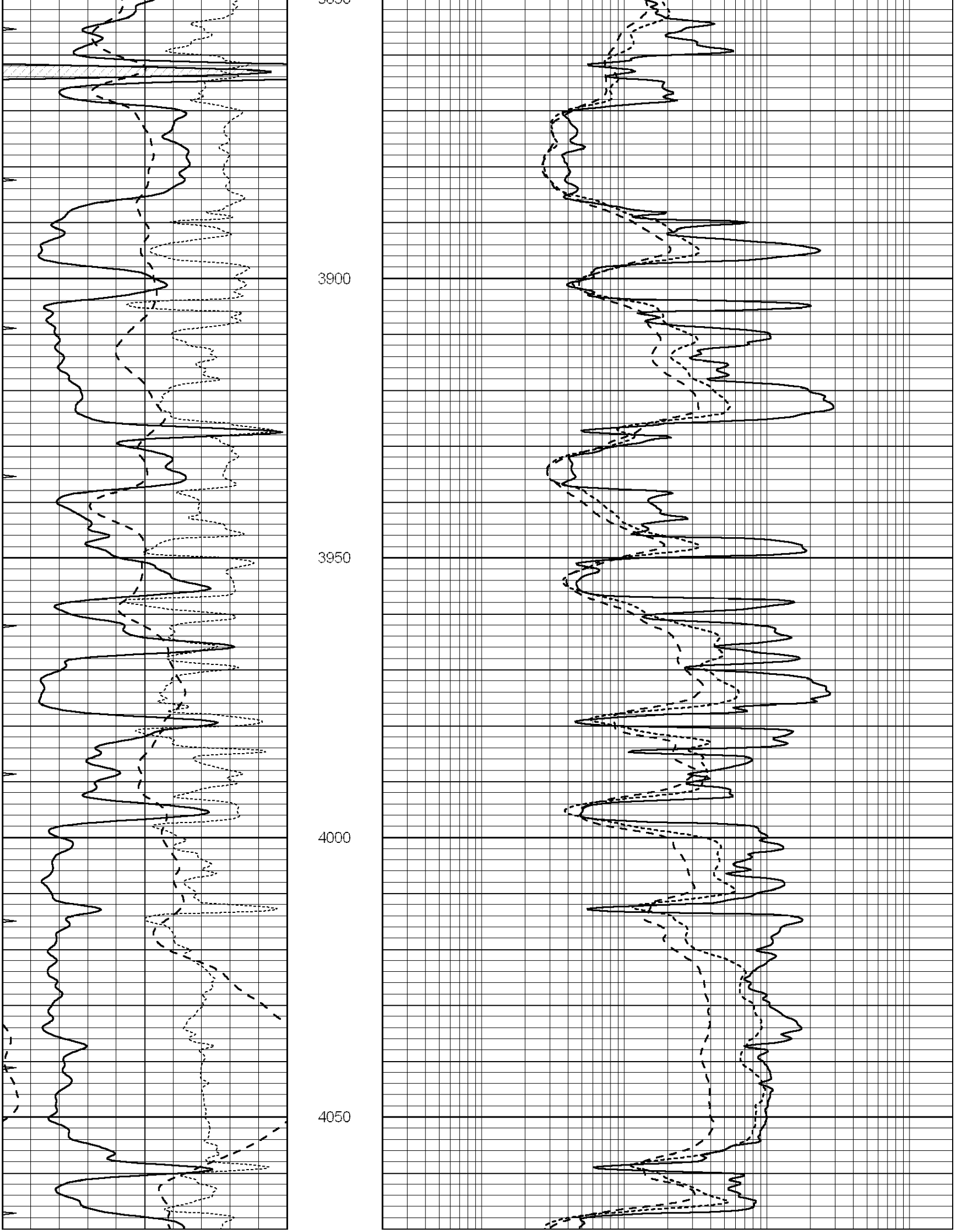
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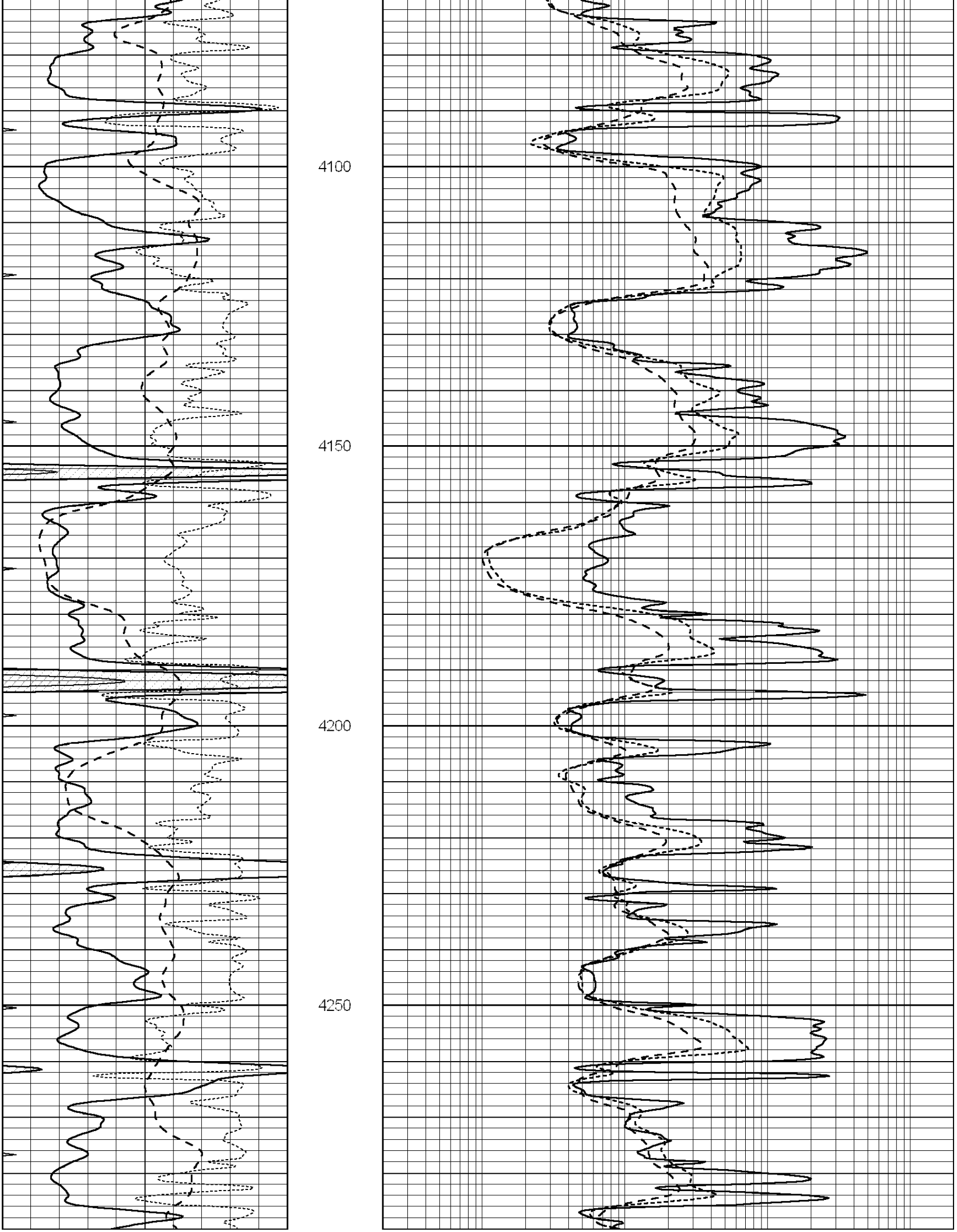
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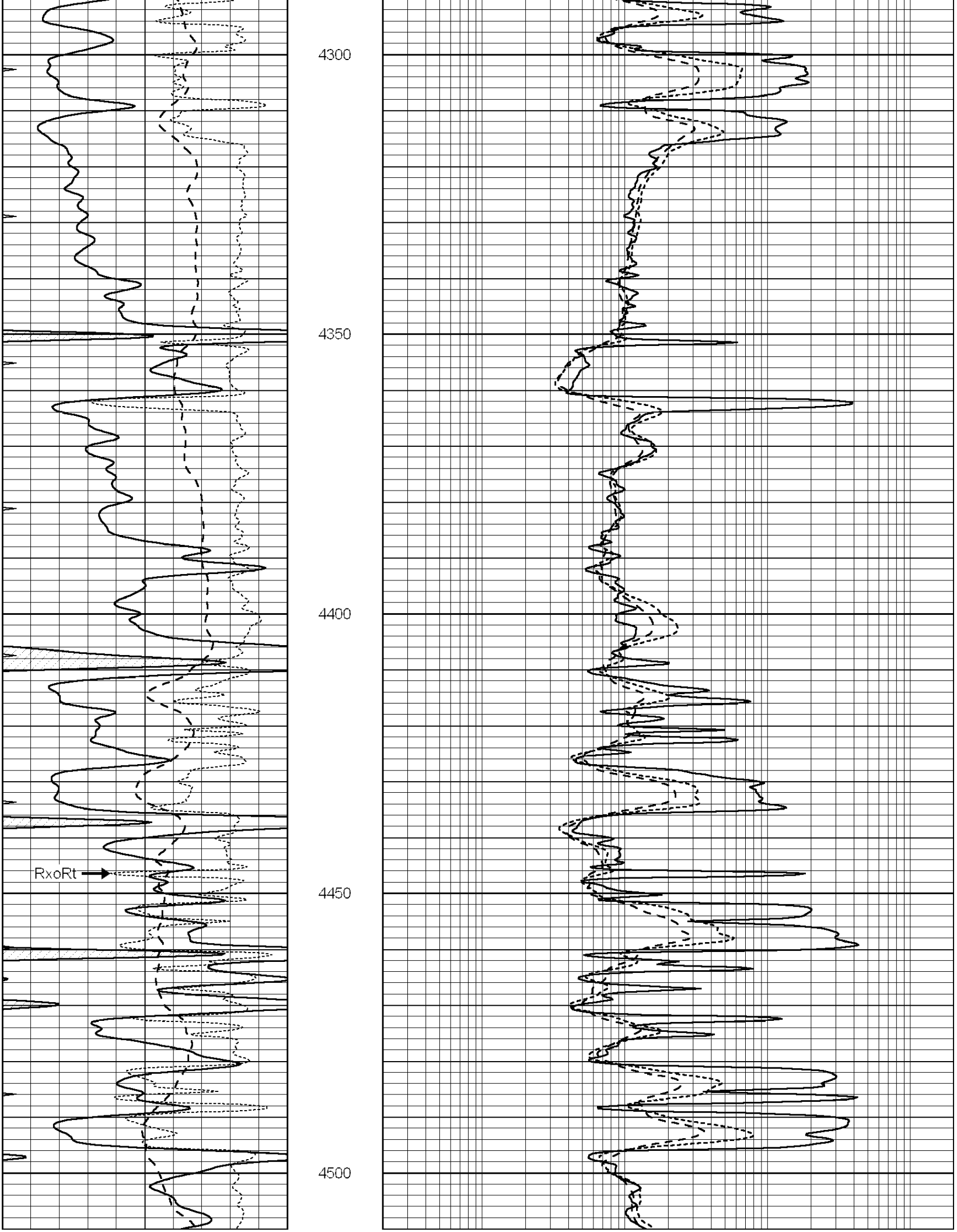
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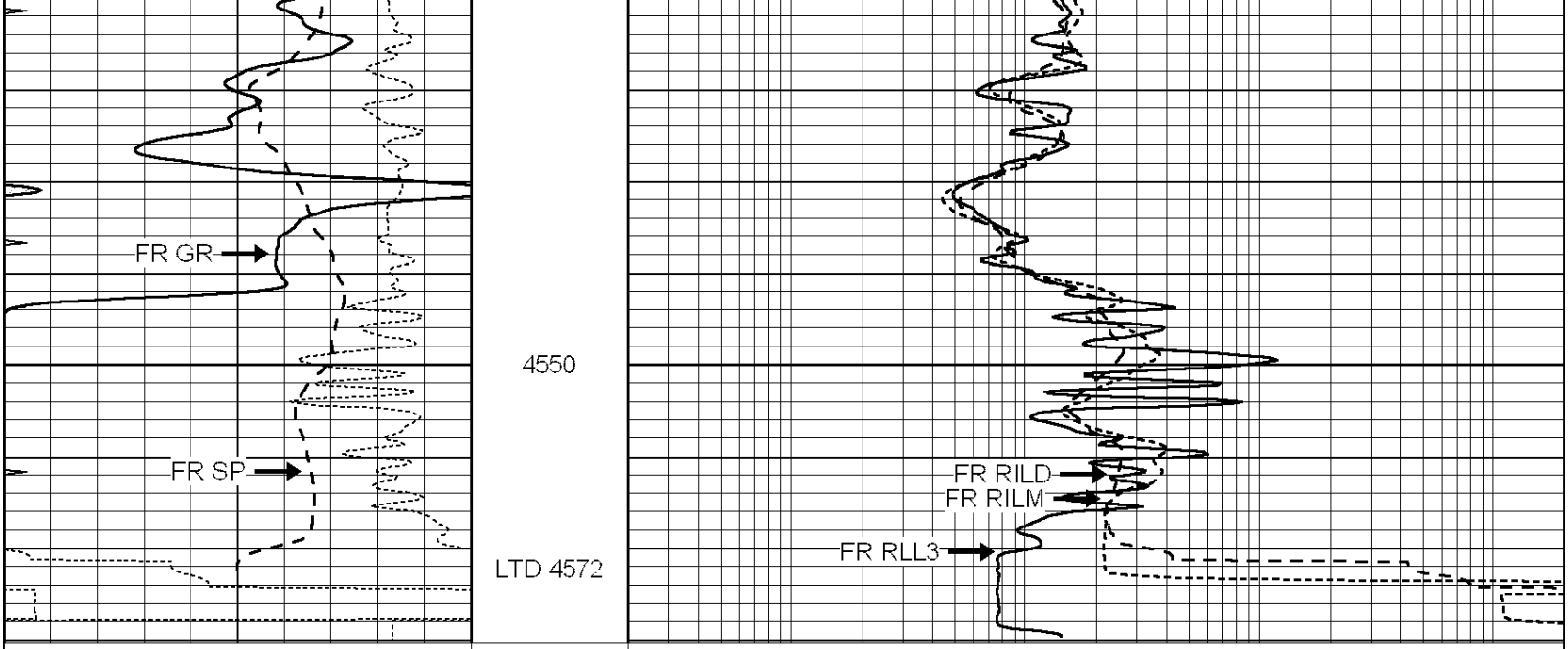

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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: 011713ddn.db
Dataset Pathname: pass2.2.1
Presentation Format: _dil
Dataset Creation: Wed Sep 04 23:33:11 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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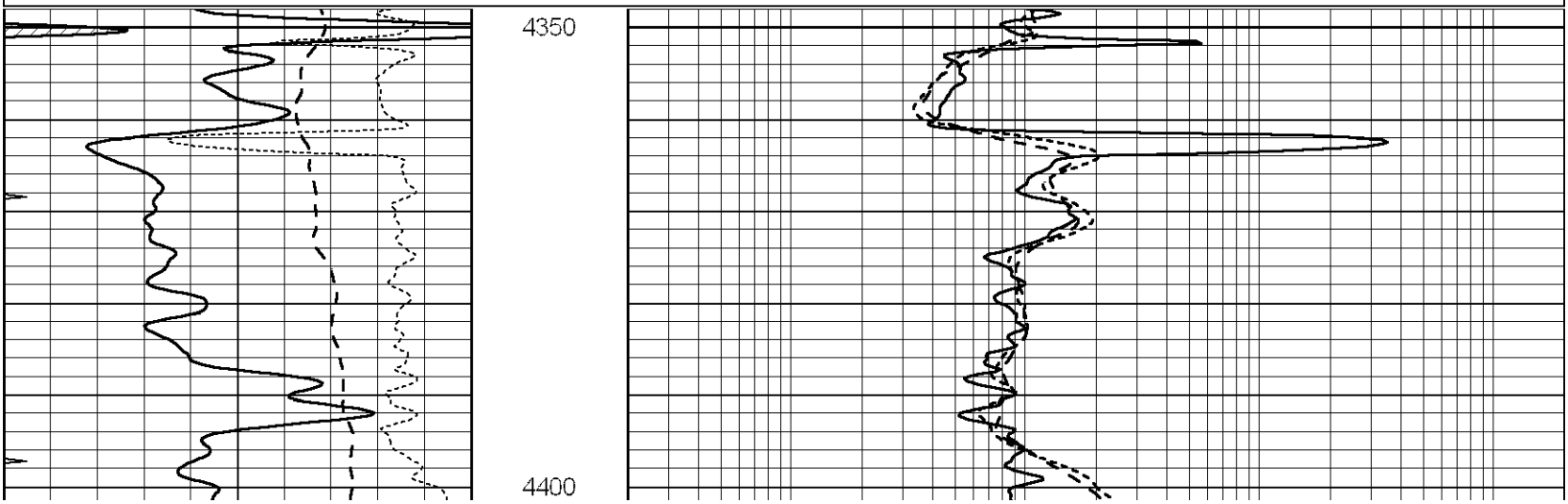
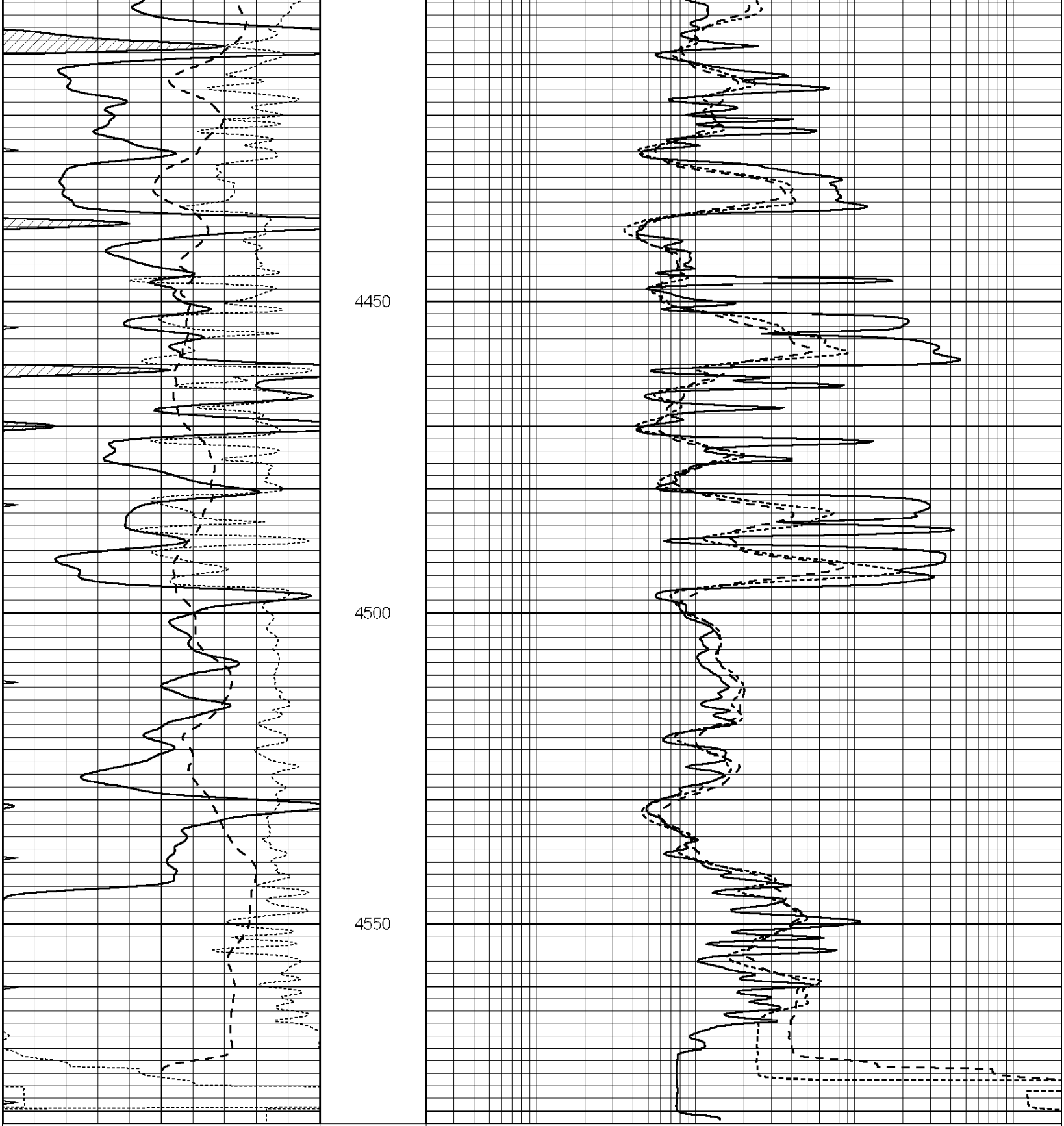
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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: 011713ddn.db

Dataset Pathname: pass3.3
Dataset Creation: Thu Sep 05 00:48:18 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Thu Aug 29 12:01:20 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	500.000	20.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	560.000	-24.000
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		4000.000	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:	GEAR2-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Mon Aug 12 03:45:04 2013

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	923.76	475.45	cps
Aluminum	2.580	g/cc	205.31	331.69	cps

Spine Angle = 76.54

Density/Spine Ratio = 0.563

	Size		Reading	
Small Ring	8.40	in	3.59	V
Large Ring	14.00	in	5.47	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:	Wed Sep 04 17:51:54 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps