NABORS COMPLETION & PRODUCTION SERVICES CO.

DUAL INDUCTION LOG

Company	HABIT PETROLEUM, LLC.
Well	LEIKER #1
Field	
County	ELLIS
State	KANSAS

Company HABIT PETROLEUM, LLC.

Well LEIKER #1

Field

County ELLIS State KANSAS

Location: API # : 15-051-26403-00-00
1085' FNL & 970' FEL
SE - SW - NE - NE
SEC 10 TWP 15S RGE 18W

Other Services: CDL/CNL, MEL

Permanent Datum: GROUND LEVEL Elevation 2019
Log Measured From: KELLY BUSHING 5' A.G.L.
Drilling Measured From: KELLY BUSHING

Elevation: K.B. 2024, D.F. 2022, G.L. 2019

Date	10/22/12		
Run Number	ONE		
Depth Driller	3700		
Depth Logger	3699		
Bottom Logged Interval	3997		
Top Log Interval	00		
Casing Driller	8 5/8" @ 230		
Casing Logger	230		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3500 PPM	
Density / Viscosity	9.4/51		
pH / Fluid Loss	10.5/7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.85 @ 73F		
Rmf @ Meas. Temp	0.64 @ 73F		
Rmc @ Meas. Temp	1.02 @ 73F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.55 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	125F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	IAN MABB	JEFF GRONEWEG	
Witnessed By	DUANE STECKLEIN		

<<< Fold Here >>>

Comments

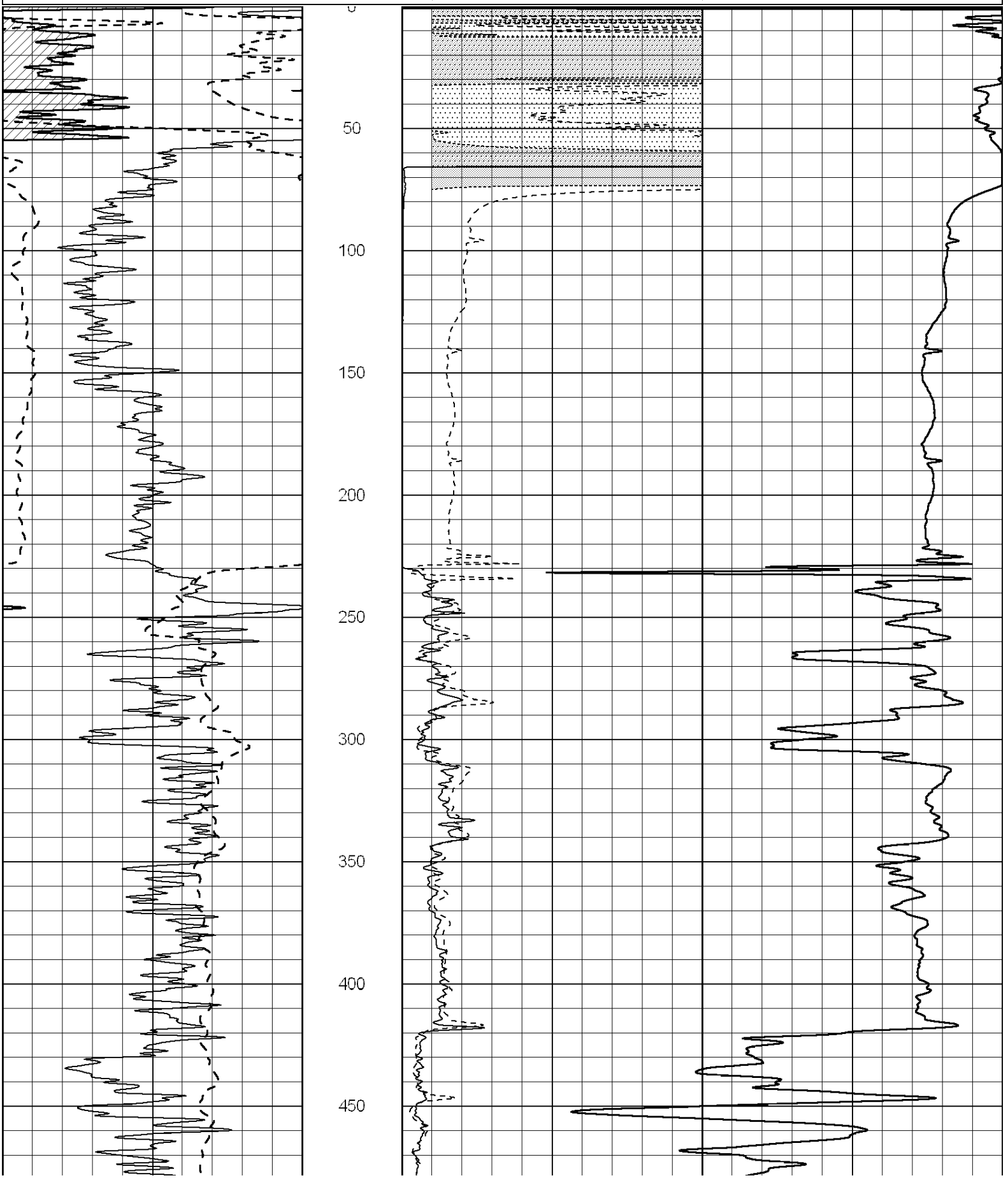
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
HAYS, KS. 6 MILES SOUTH ON 183, 1 MILE EAST, 1/4 SOUTH WEST INTO

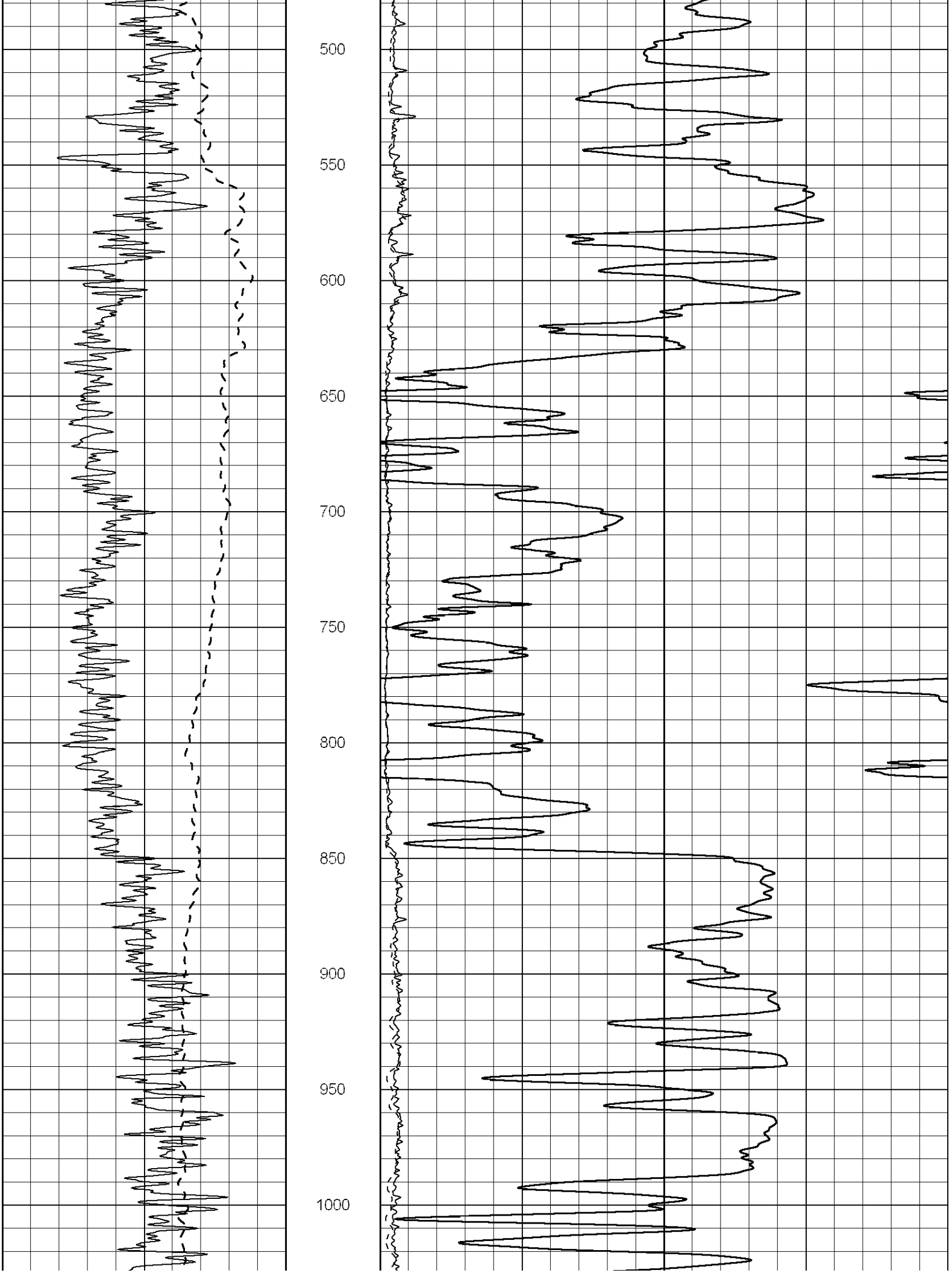
Database File:	009980ddn.db
Dataset Pathname:	pass3.2
Presentation Format:	_dil2
Dataset Creation:	Mon Oct 22 12:43:34 2012 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:600

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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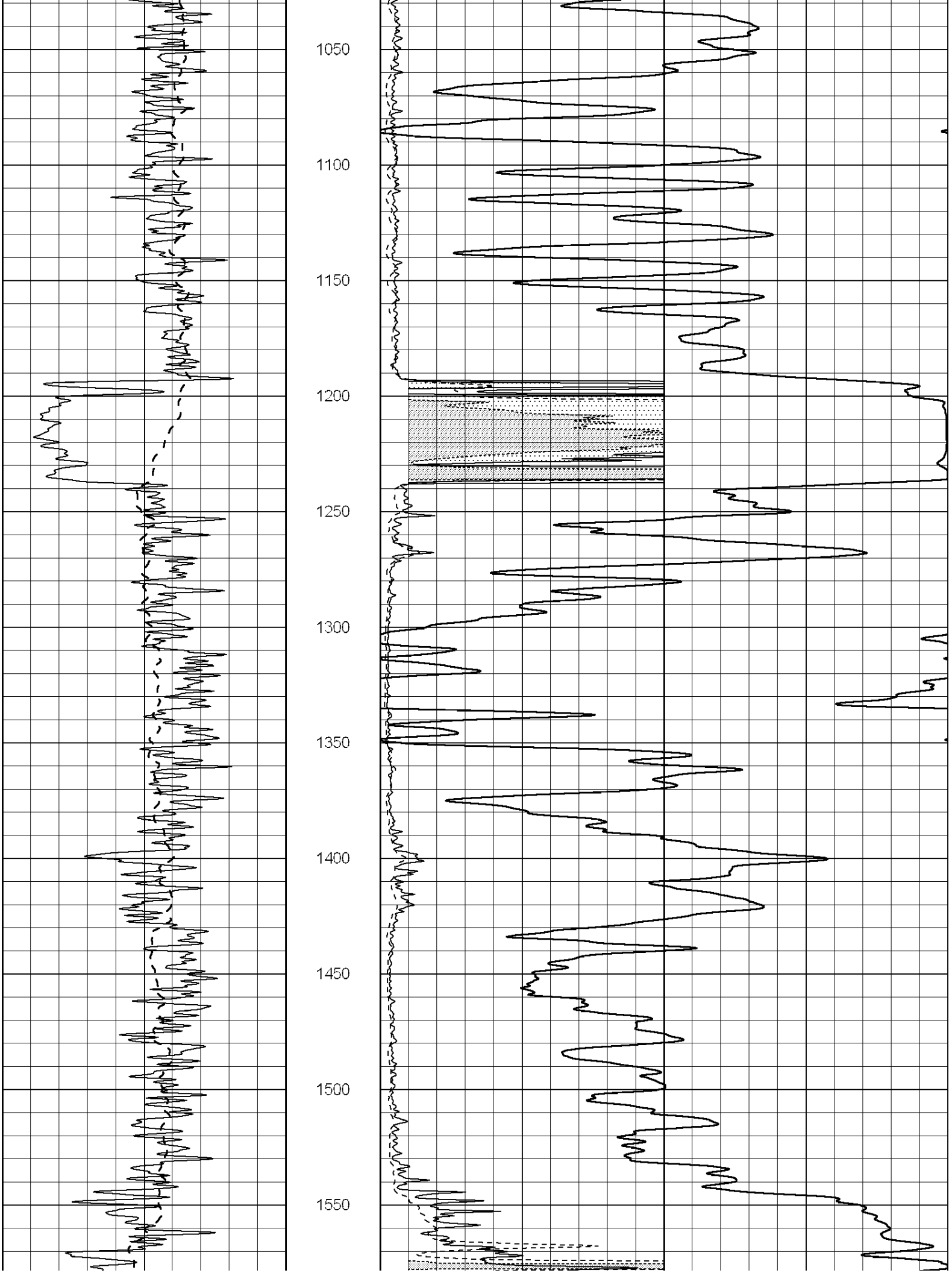
900
950
1000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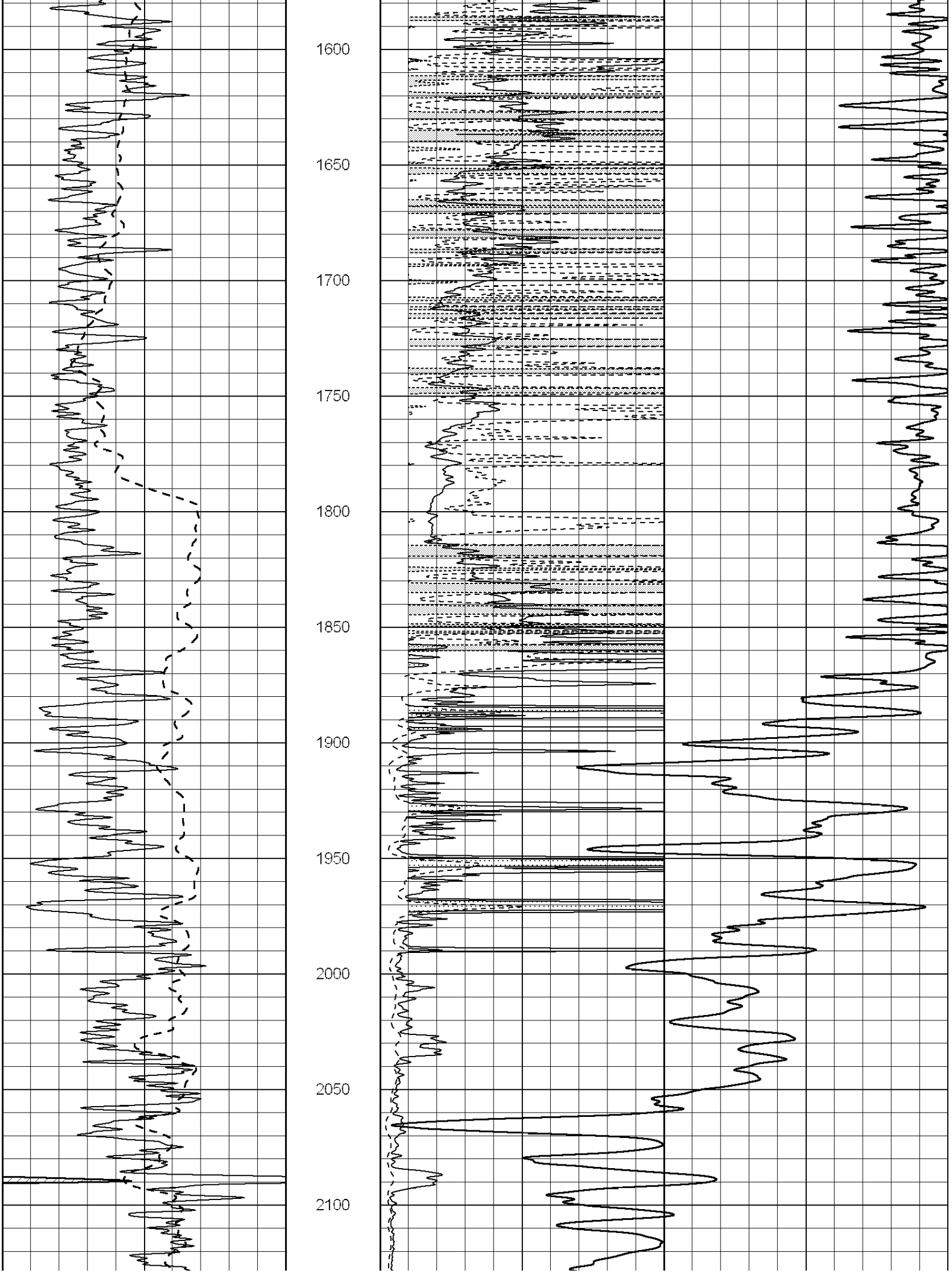
1550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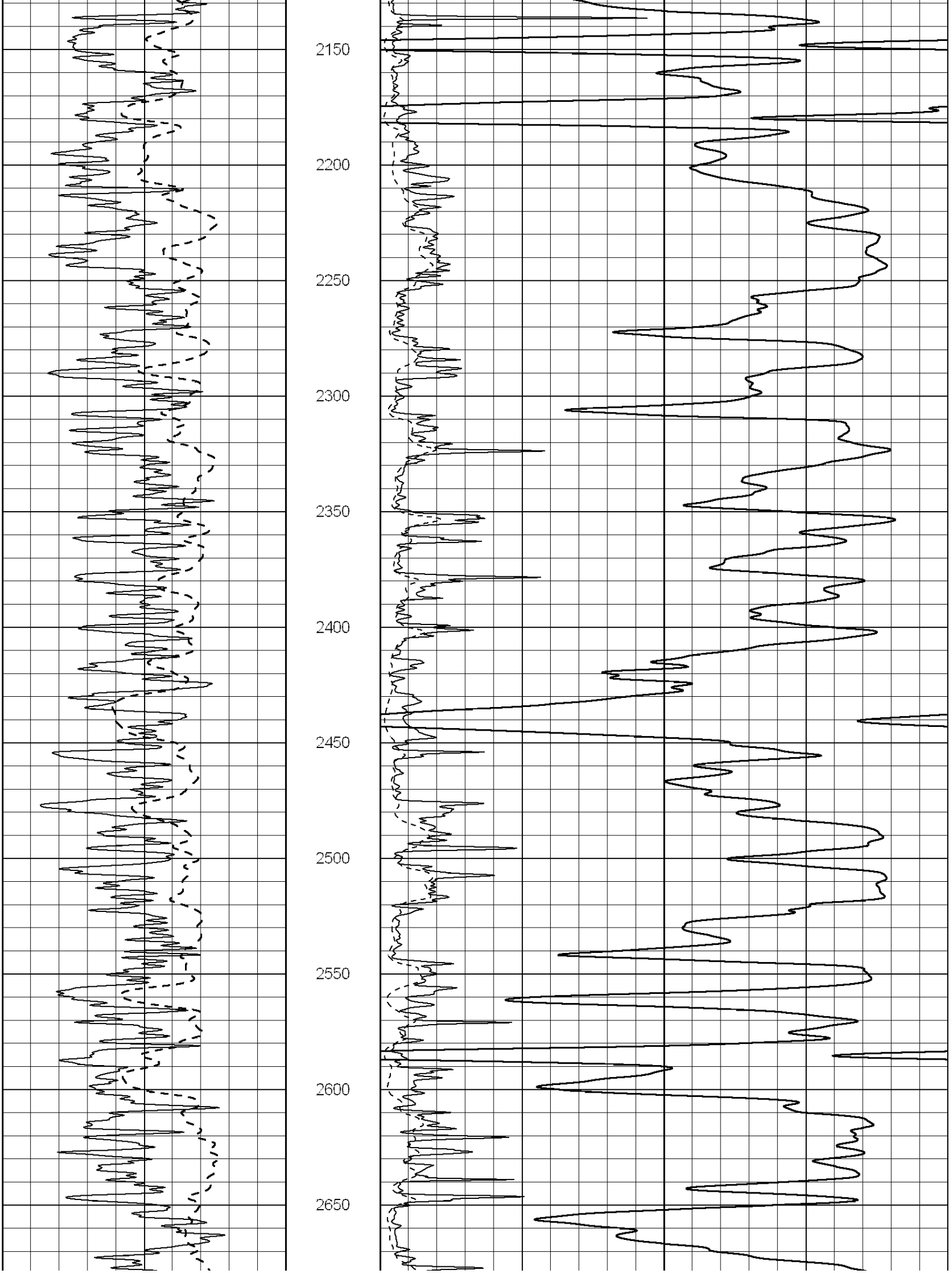
2000
2050
2100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2400
2450
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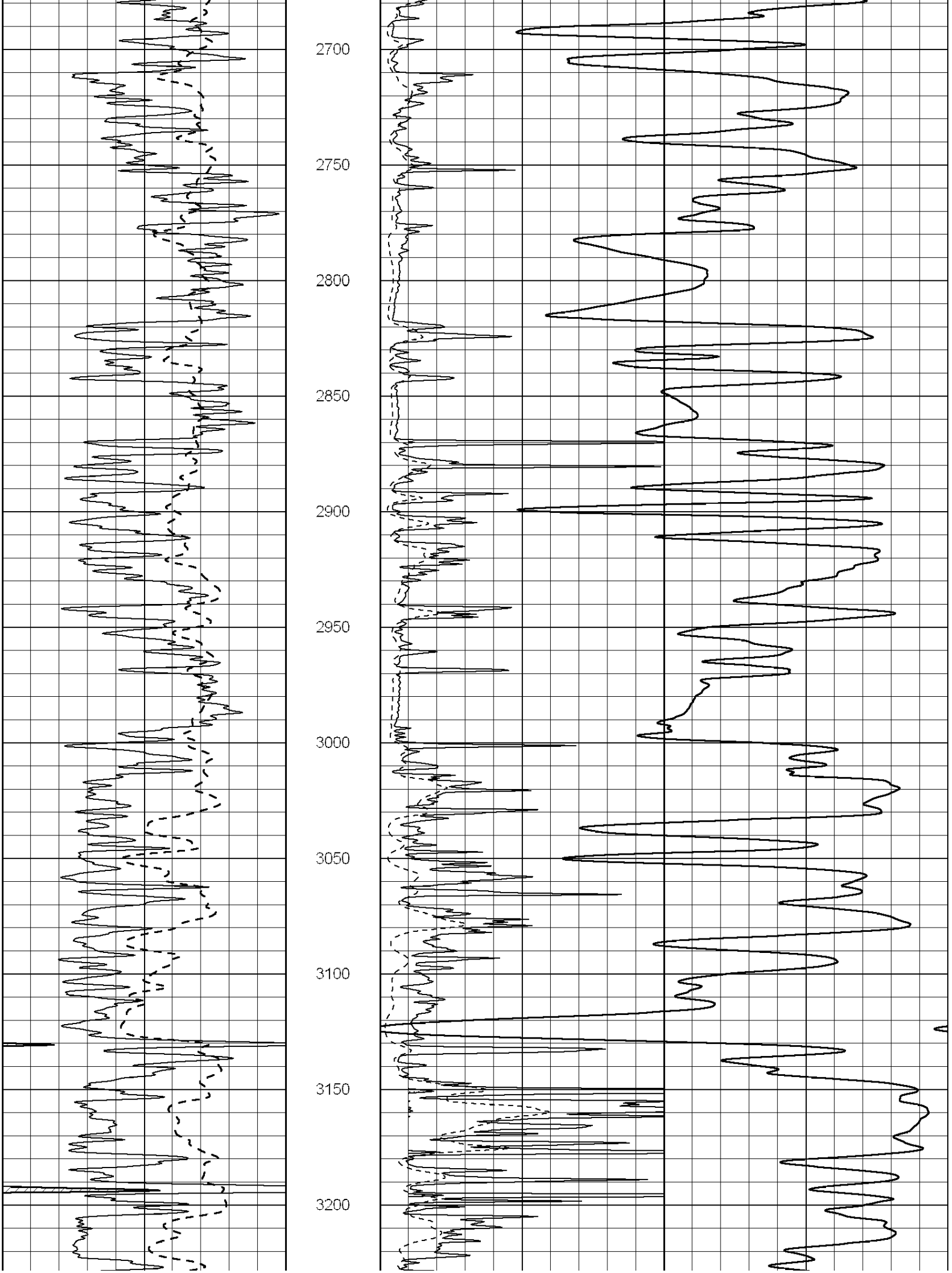
2550
2600
2650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3050
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3150
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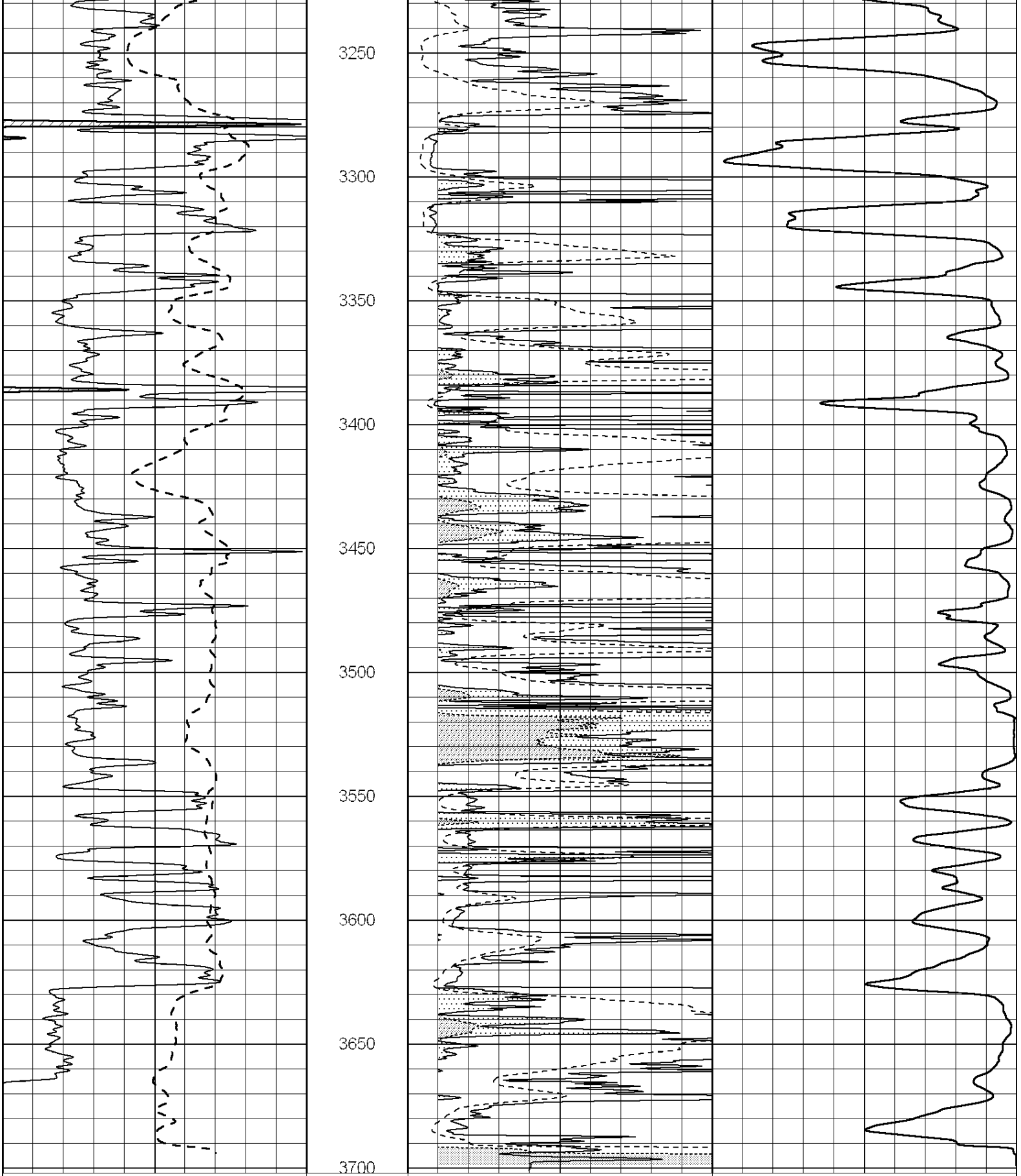
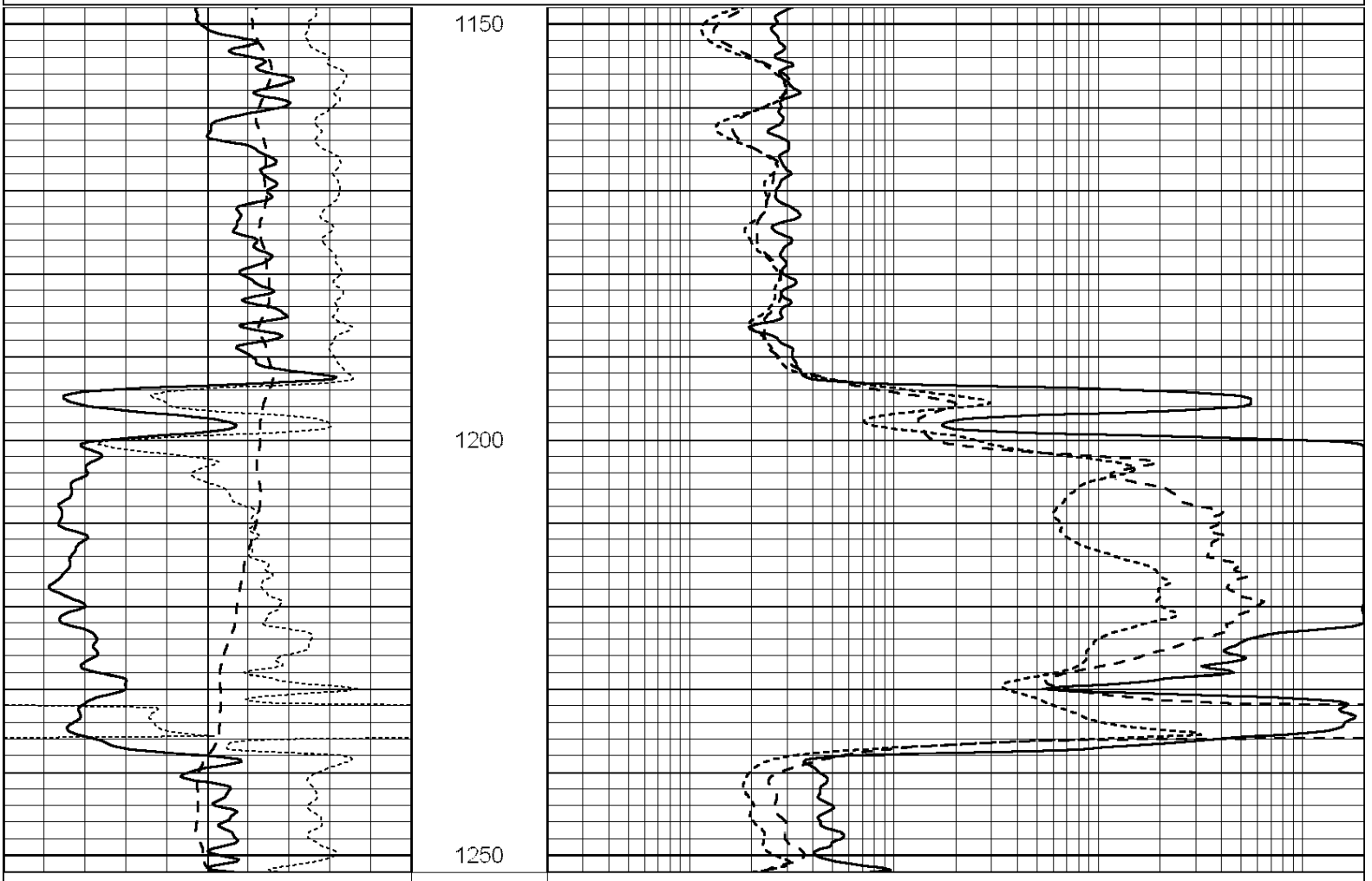

3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
0 Gamma Ray (GAPI) 150
-100 SP (mV) 100
0 RLL3 (Ohm-m) 50
0 Deep Induction (Ohm-m) 50
1000 CILD (mmho/m) 0
50 RILD X10 (Ohm-m) 500
50 RLL3 X10 (Ohm-m) 500

Database File: 009980ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil
Dataset Creation: Mon Oct 22 12:43:34 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

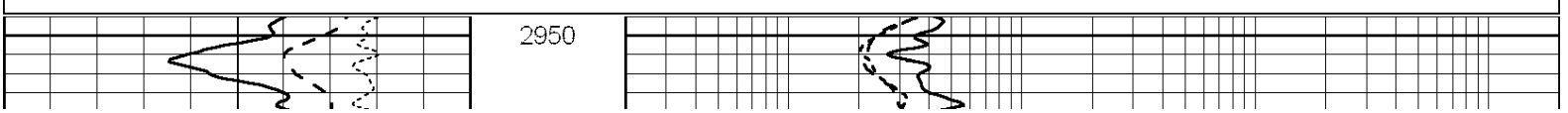
0 GAMMA RAY (GAPI) 150		0.2 SHALLOW GUARD (Ohm-m) 2000
-100 SP (mV) 100		0.2 MEDIUM INDUCTION (Ohm-m) 2000
-250 Rxo/Rt 50		0.2 DEEP INDUCTION (Ohm-m) 2000

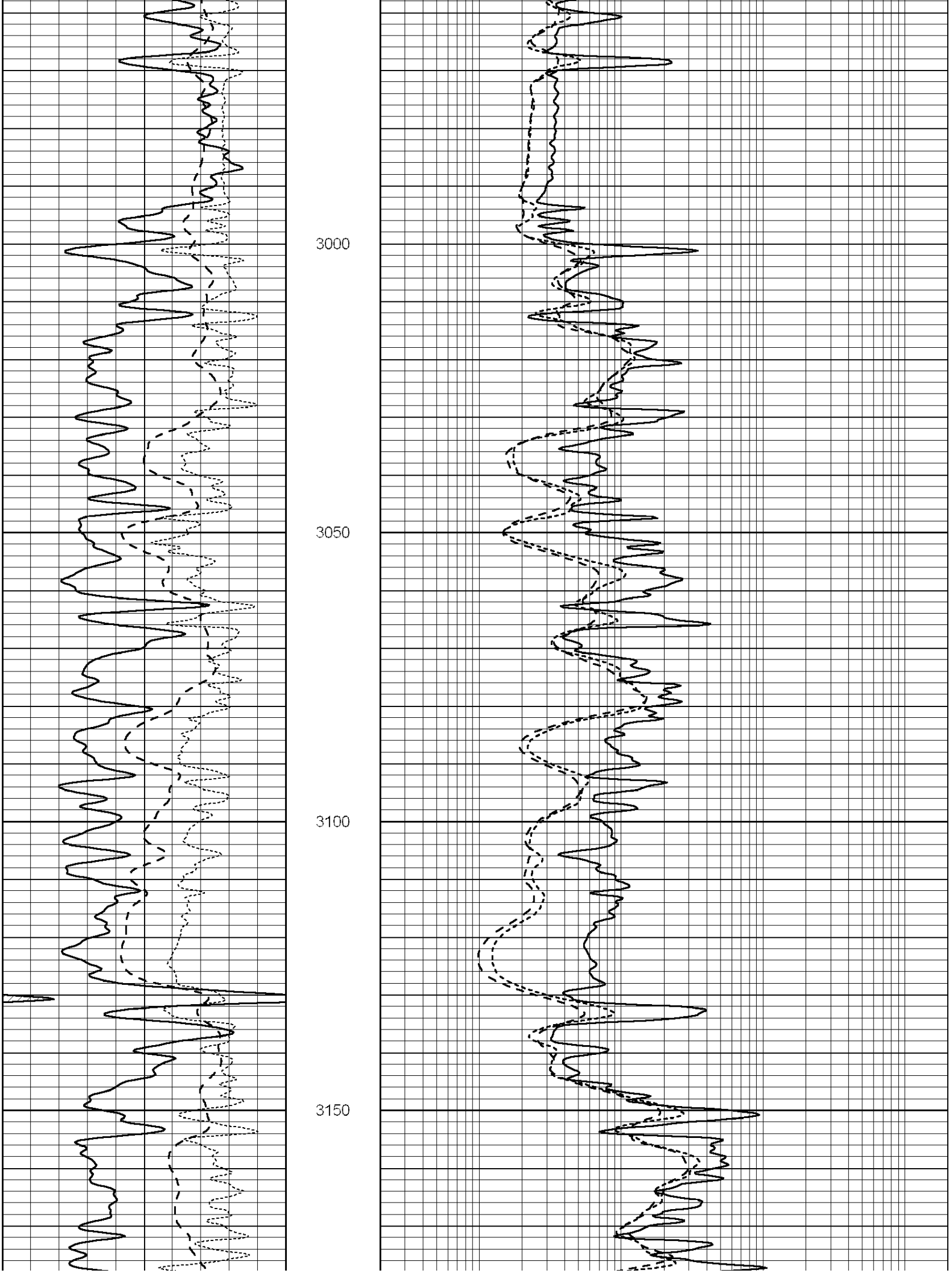


0 GAMMA RAY (GAPI) 150		0.2 SHALLOW GUARD (Ohm-m) 2000
-100 SP (mV) 100		0.2 MEDIUM INDUCTION (Ohm-m) 2000
-250 Rxo/Rt 50		0.2 DEEP INDUCTION (Ohm-m) 2000

Database File: 009980ddn.db
Dataset Pathname: pass3.1
Presentation Format: _dil
Dataset Creation: Mon Oct 22 12:14:57 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150		0.2 SHALLOW GUARD (Ohm-m) 2000
-100 SP (mV) 100		0.2 MEDIUM INDUCTION (Ohm-m) 2000
-250 Rxo/Rt 50		0.2 DEEP INDUCTION (Ohm-m) 2000

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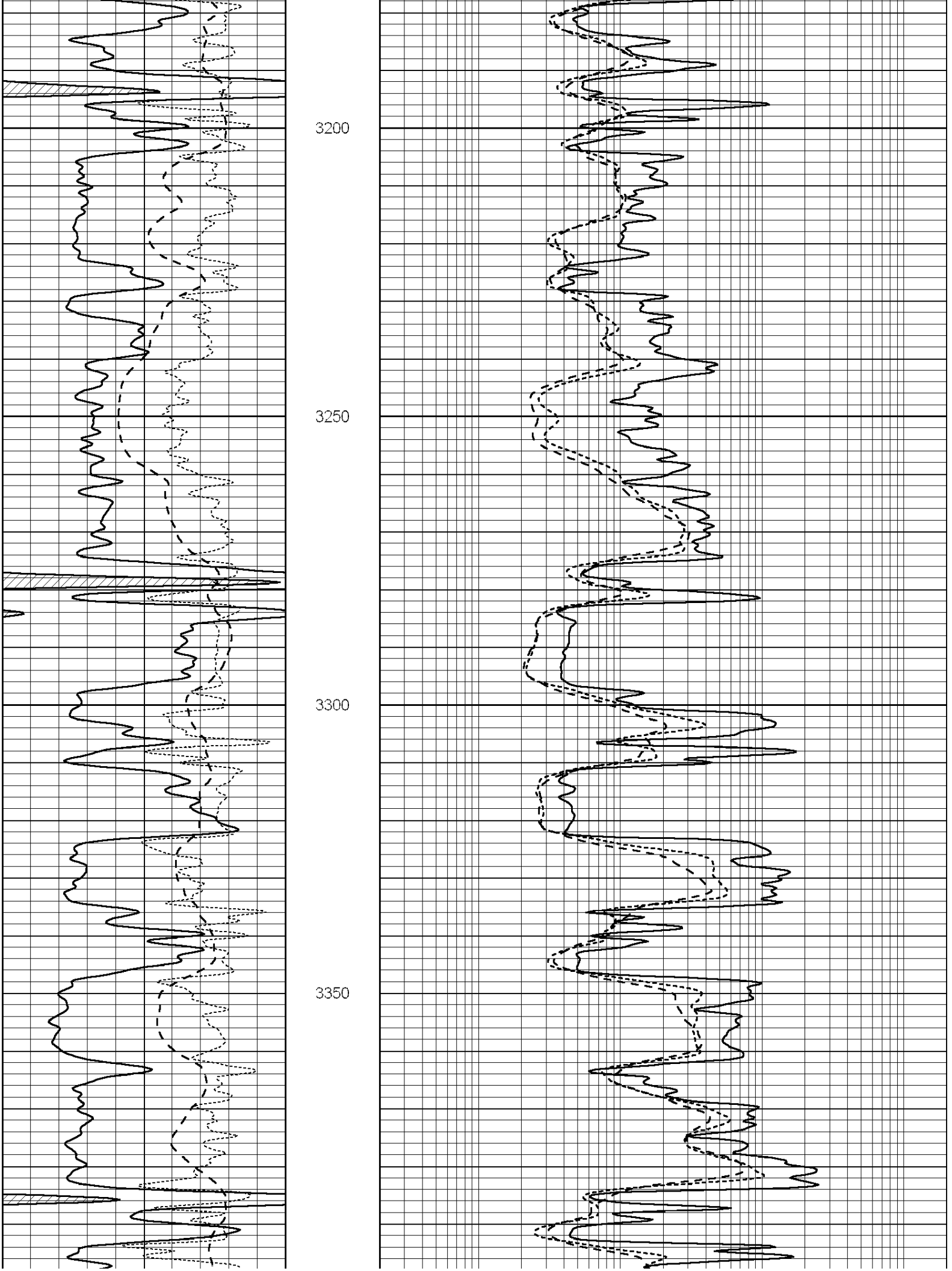
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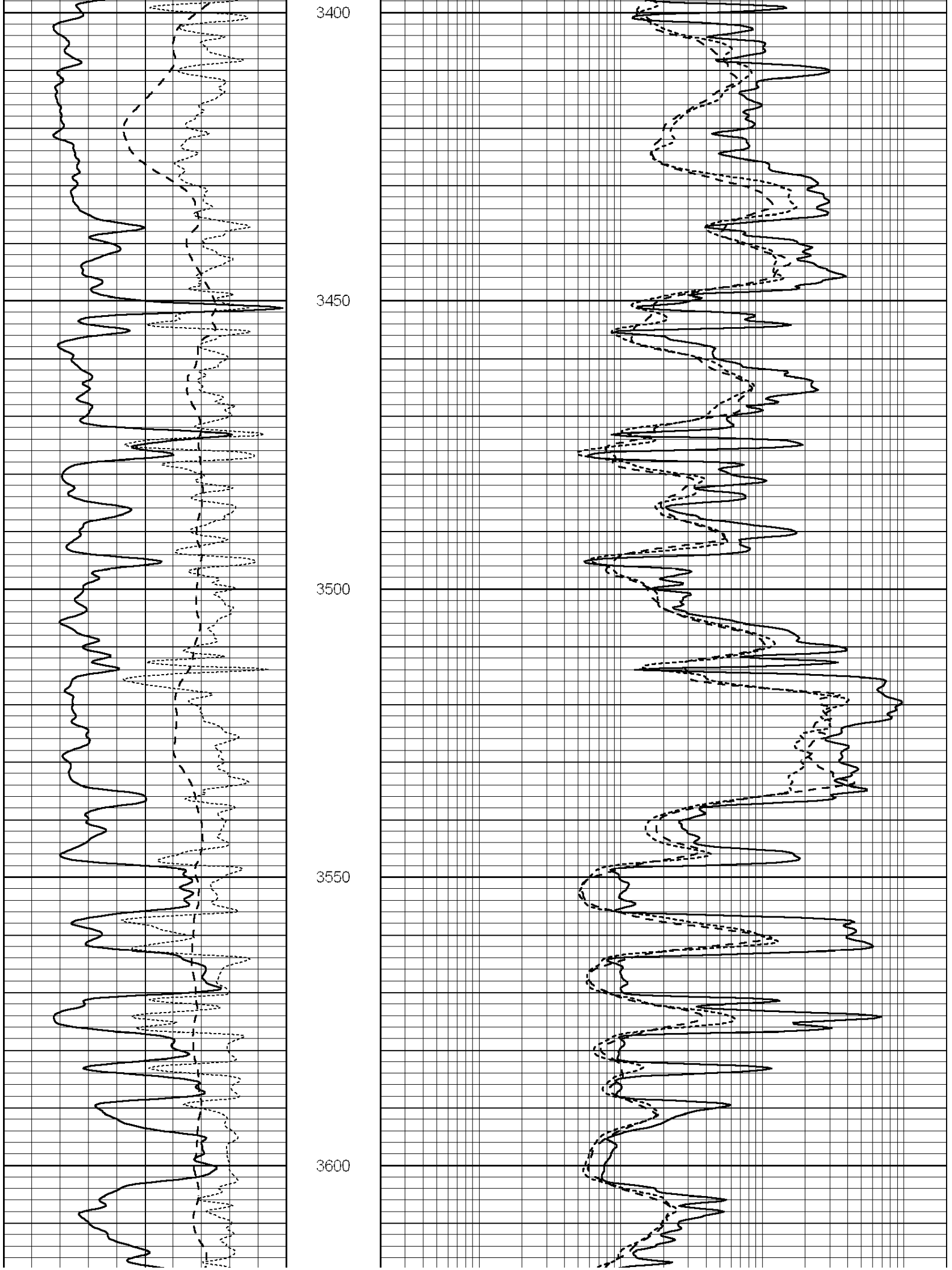
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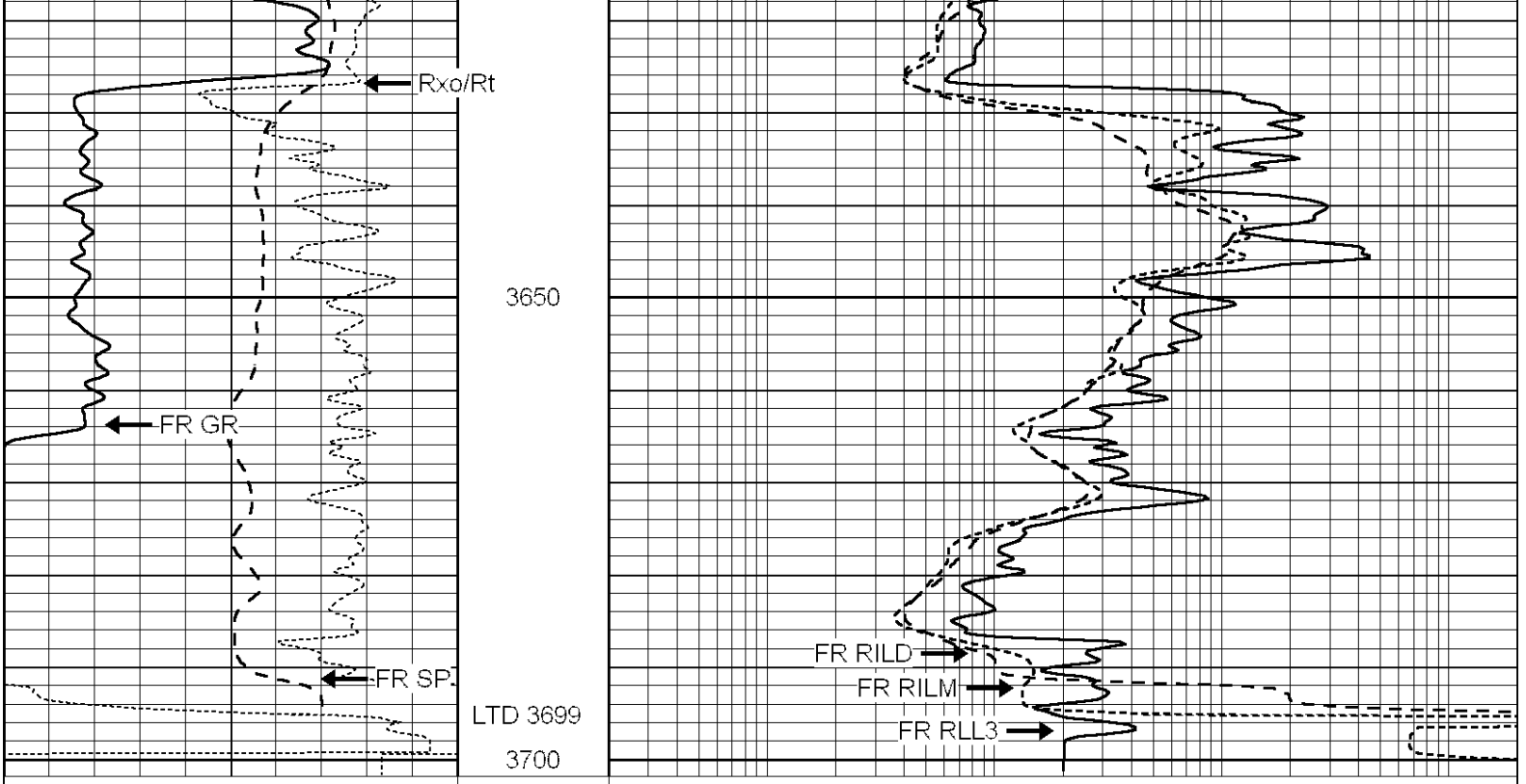


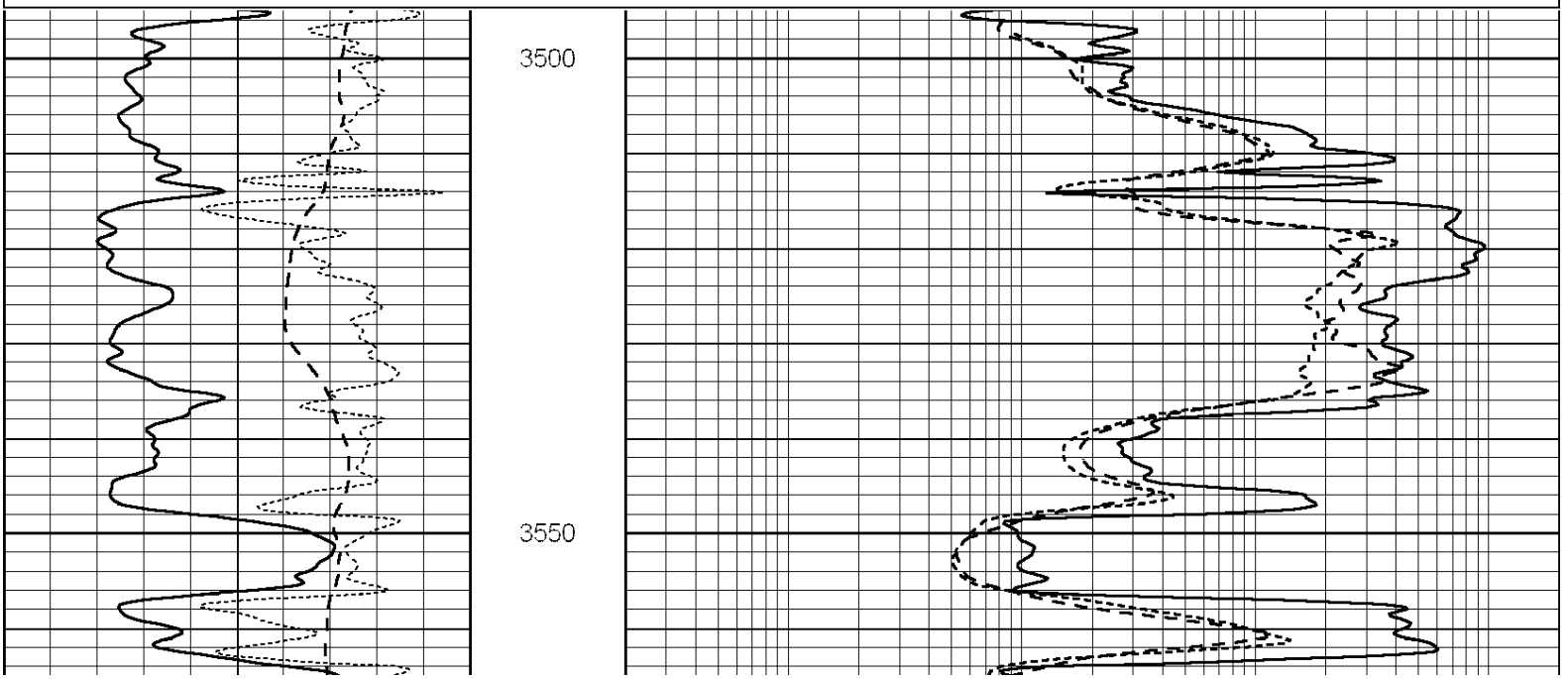
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

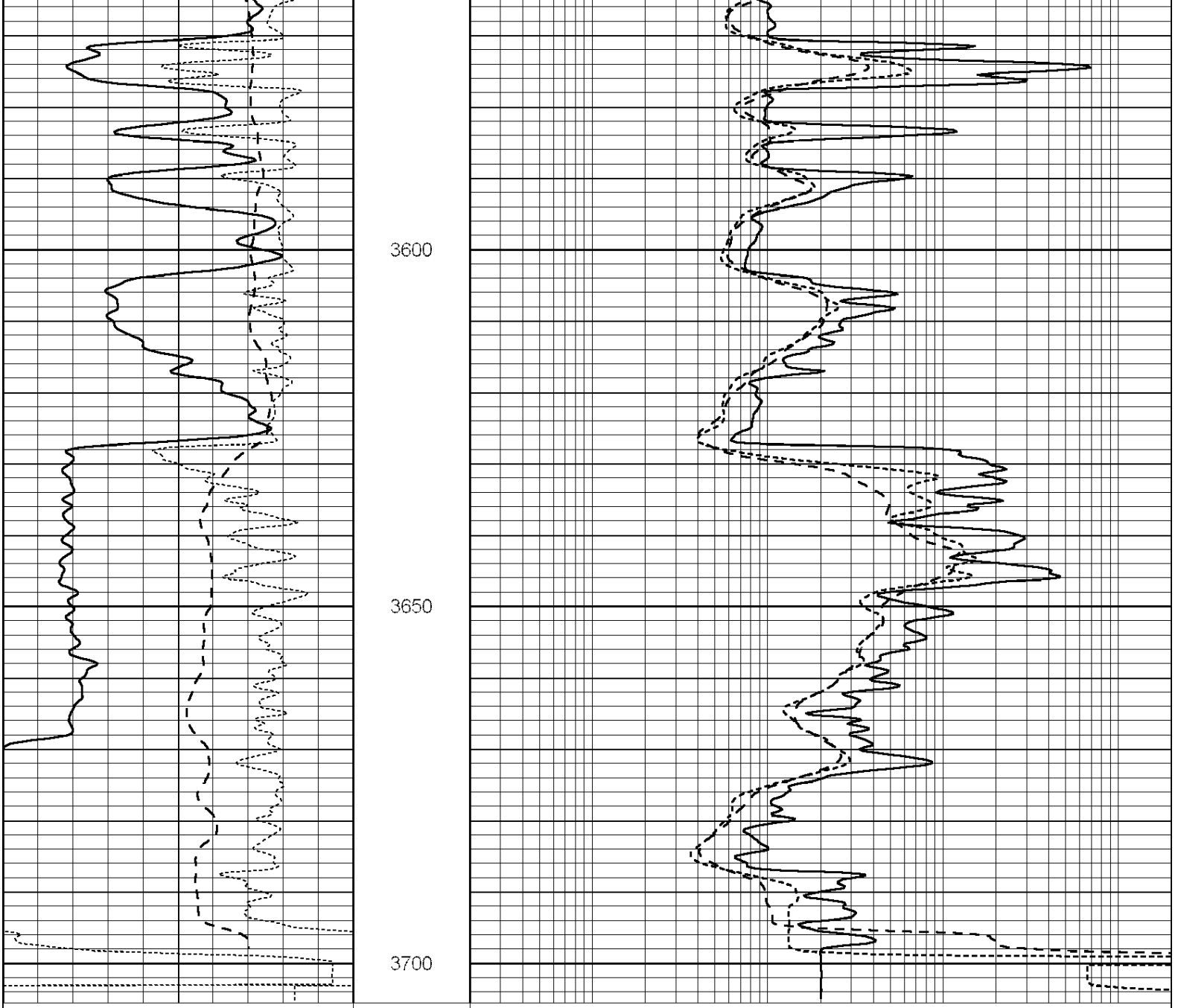
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

Database File:	009980ddn.db
Dataset Pathname:	pass2.6
Presentation Format:	_dil
Dataset Creation:	Mon Oct 22 12:13:30 2012 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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





Calibration Report

Database File: 009980ddn.db
Dataset Pathname: pass3.2
Dataset Creation: Mon Oct 22 12:43:34 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Fri Aug 01 06:33:19 2008
Downhole Cal Performed:	Mon Jul 28 11:08:27 2008
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008

Surface Calibration

	Readings		References		Results	
Loop:	Air	Loop	Air	Loop	m	b

Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: GEAR4-GEARHART
Source / Verifier: 143 / 143
Master Calibration Performed: Mon Mar 19 19:07:19 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1015.91	497.51	cps
Aluminum	2.600	g/cc	227.67	350.20	cps

Spine Angle = 76.79 Density/Spine Ratio = 0.579

	Size		Reading	
Small Ring	8.00	in	3.21	V
Large Ring	14.00	in	5.46	V

Compensated Neutron Calibration Report

Serial Number: 6I
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: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps