SUPERIOR
Hays, Kansas

DUAL INDUCTION LOG

Company	MUSTANG ENERGY CORPORATION
Well	COUTURE #3
Field	MARCOTTE
County	ROOKS
State	KANSAS

Company MUSTANG ENERGY CORPORATION
Well COUTURE #3
Field MARCOTTE
County ROOKS State KANSAS

Location: API # : 15-163-24036-0000
1270' FSL & 460' FWL
NE - NW - SW - SW
SEC 10 TWP 10S RGE 20W

Other Services
CDL/CNL
MEL

Permanent Datum	GROUND LEVEL	Elevation	2206
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 2211
D.F. 2209
G.L. 2206

Date	5/14/12		
Run Number	ONE		
Depth Driller	3837		
Depth Logger	3836		
Bottom Logged Interval	3834		
Top Log Interval	00		
Casing Driller	8 5/8"@219'		
Casing Logger	219		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.3/64		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.700@84F		
Rmf @ Meas. Temp	.525@84F		
Rmc @ Meas. Temp	.840@84F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.511@115F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:45 P.M.		
Maximum Recorded Temperature	115F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JEFF LAWLER	ROD BRIN	

<<< Fold Here >>>

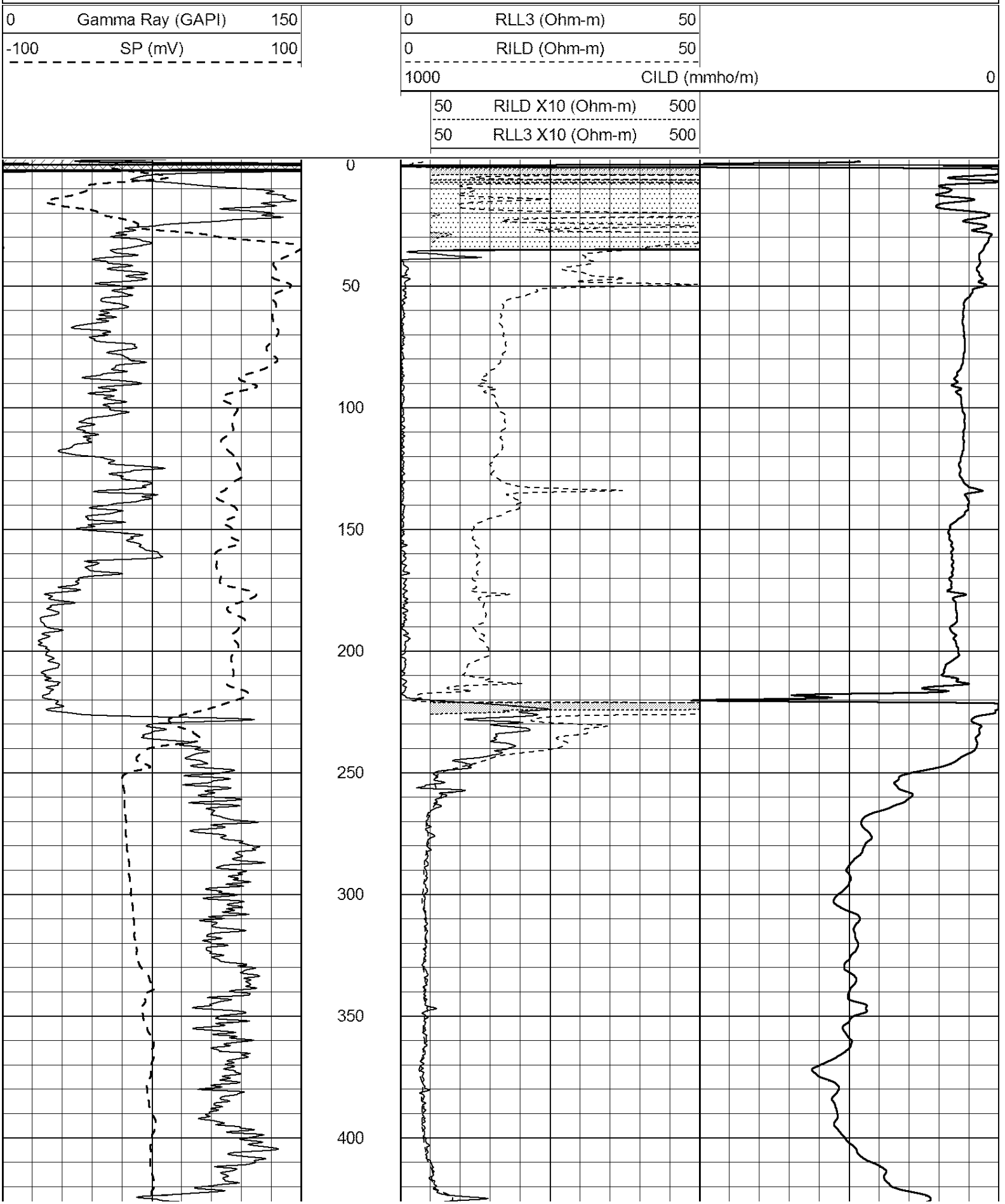
Comments

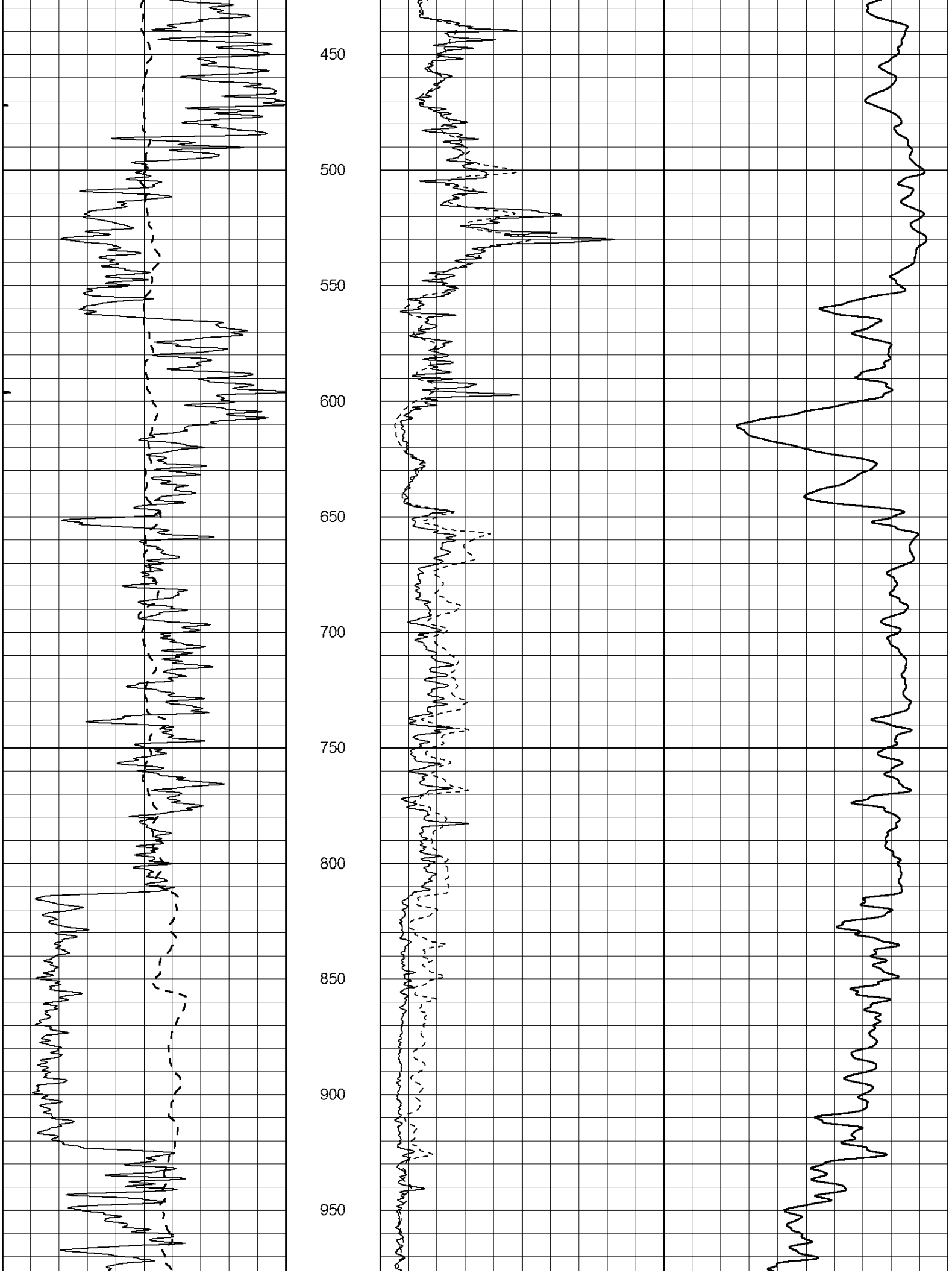
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
PALCO, KS. S. ON BLKTOP TO "AA RD.", 1E., N. INTO THEN VEER EAST

SUPERIOR
Hays, Kansas

MAIN SECTION

Database File:	408767ddn.db
Dataset Pathname:	pass3.5
Presentation Format:	dil2
Dataset Creation:	Mon May 14 21:16:08 2012 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:600

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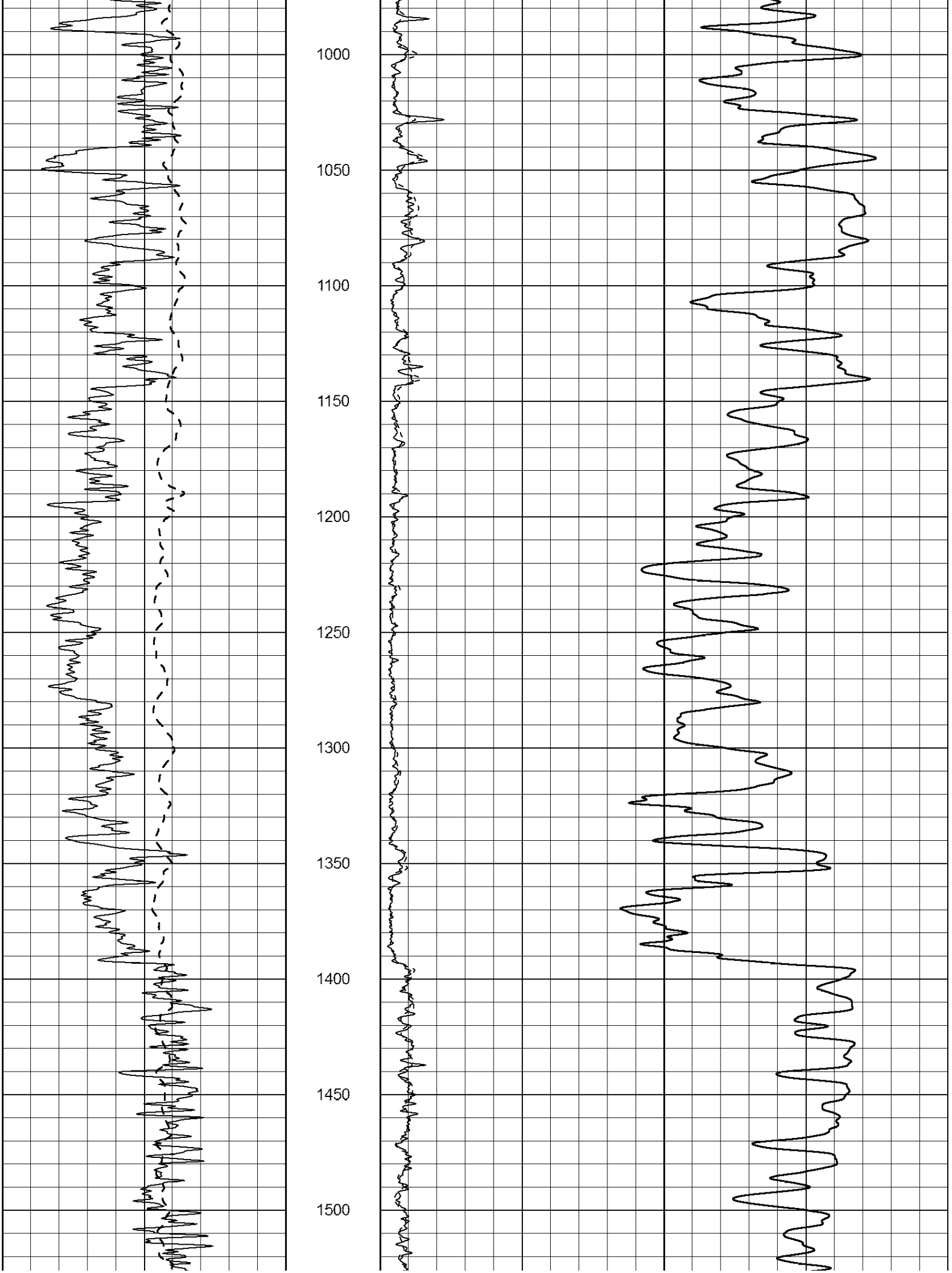
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1450
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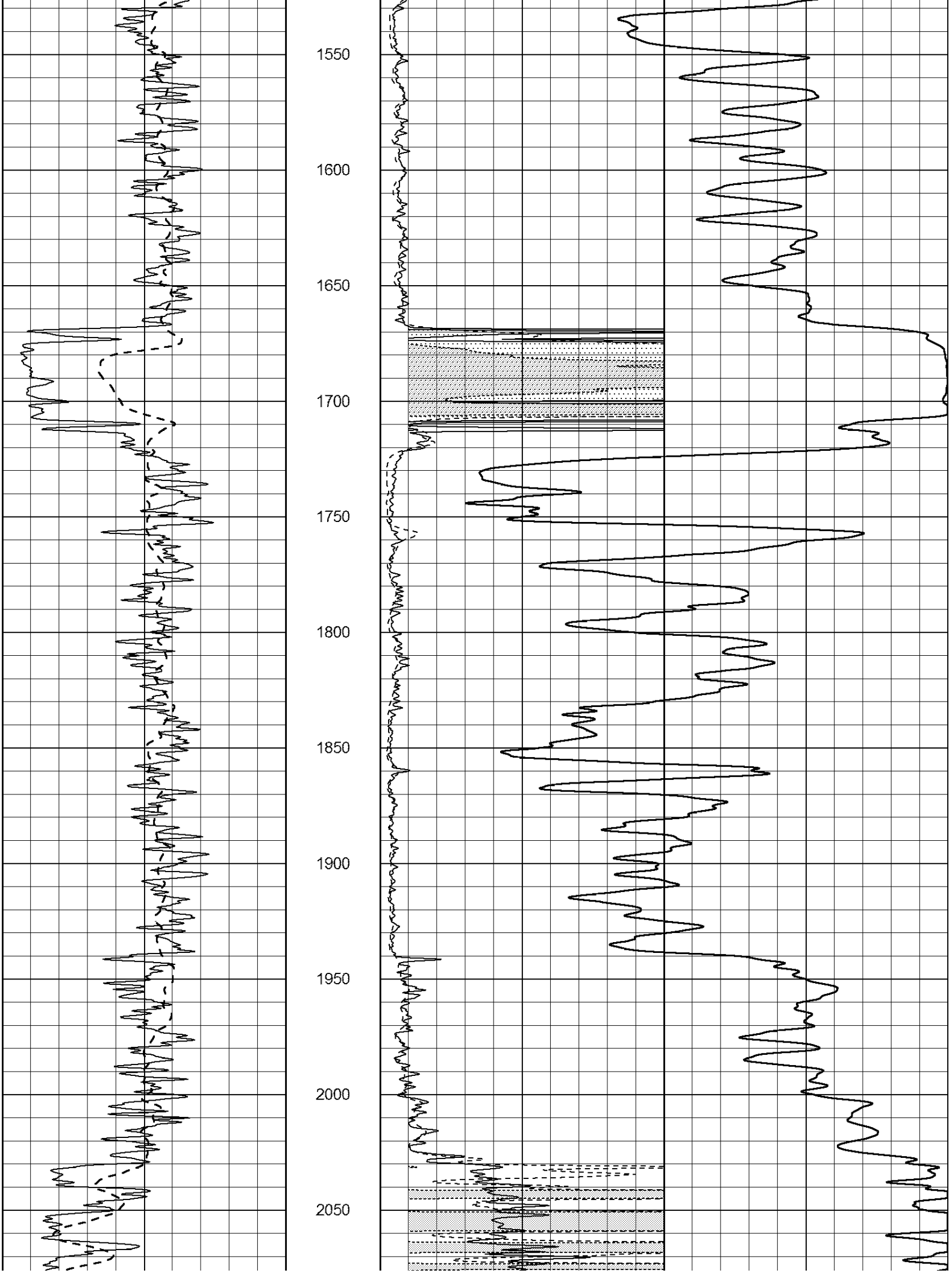
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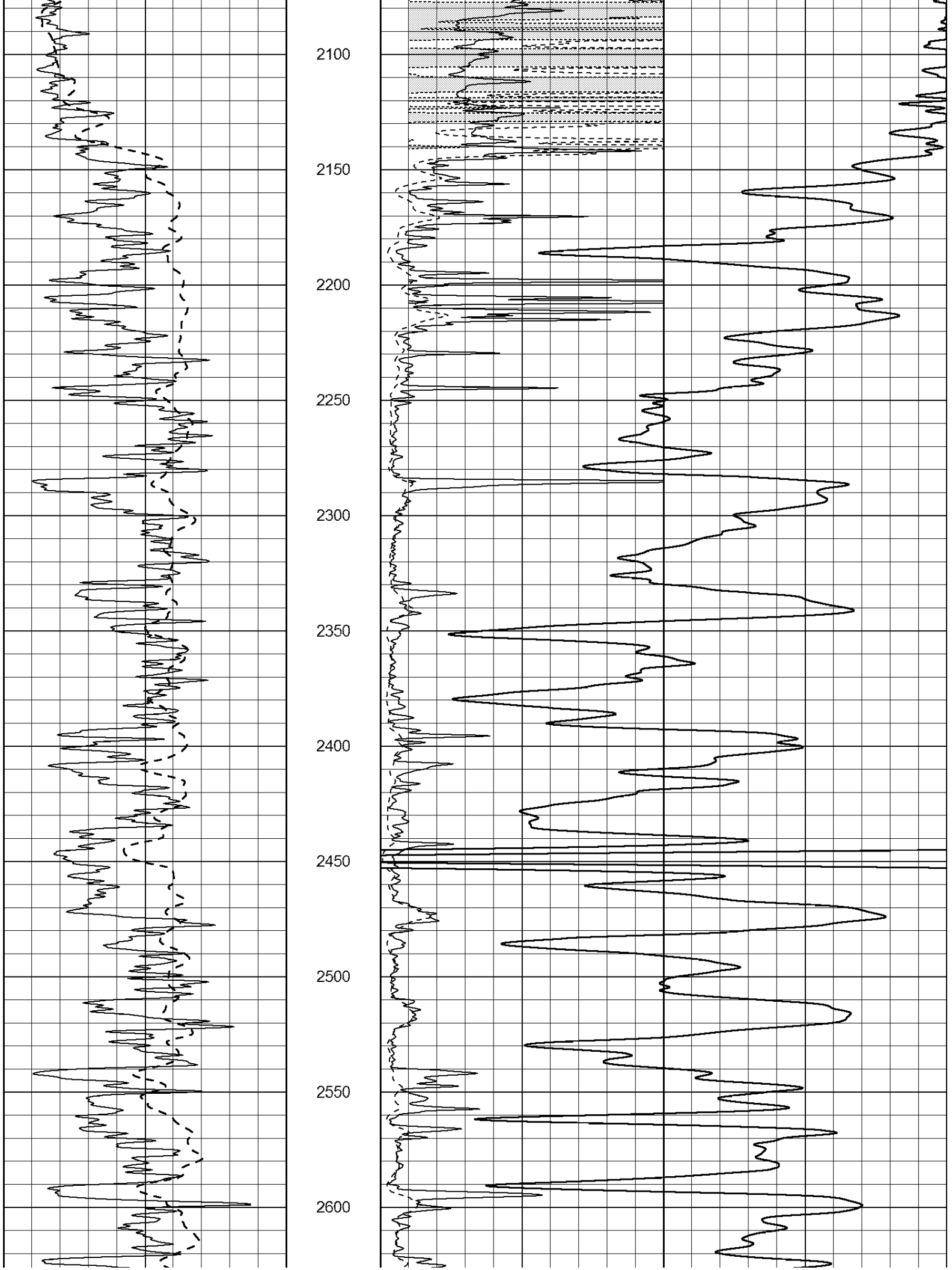
2000
2050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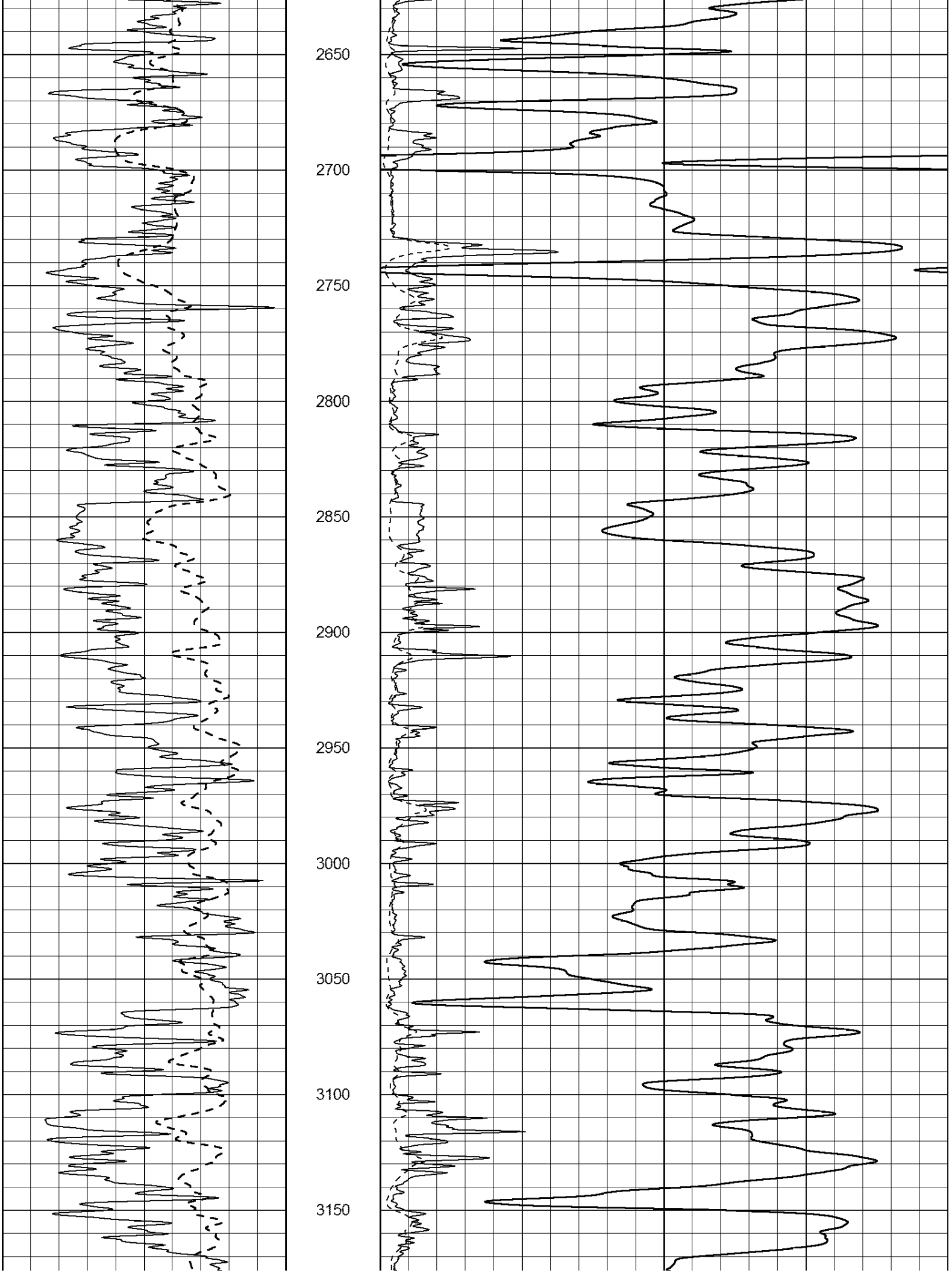
2400
2450
2500
2550
2600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3050
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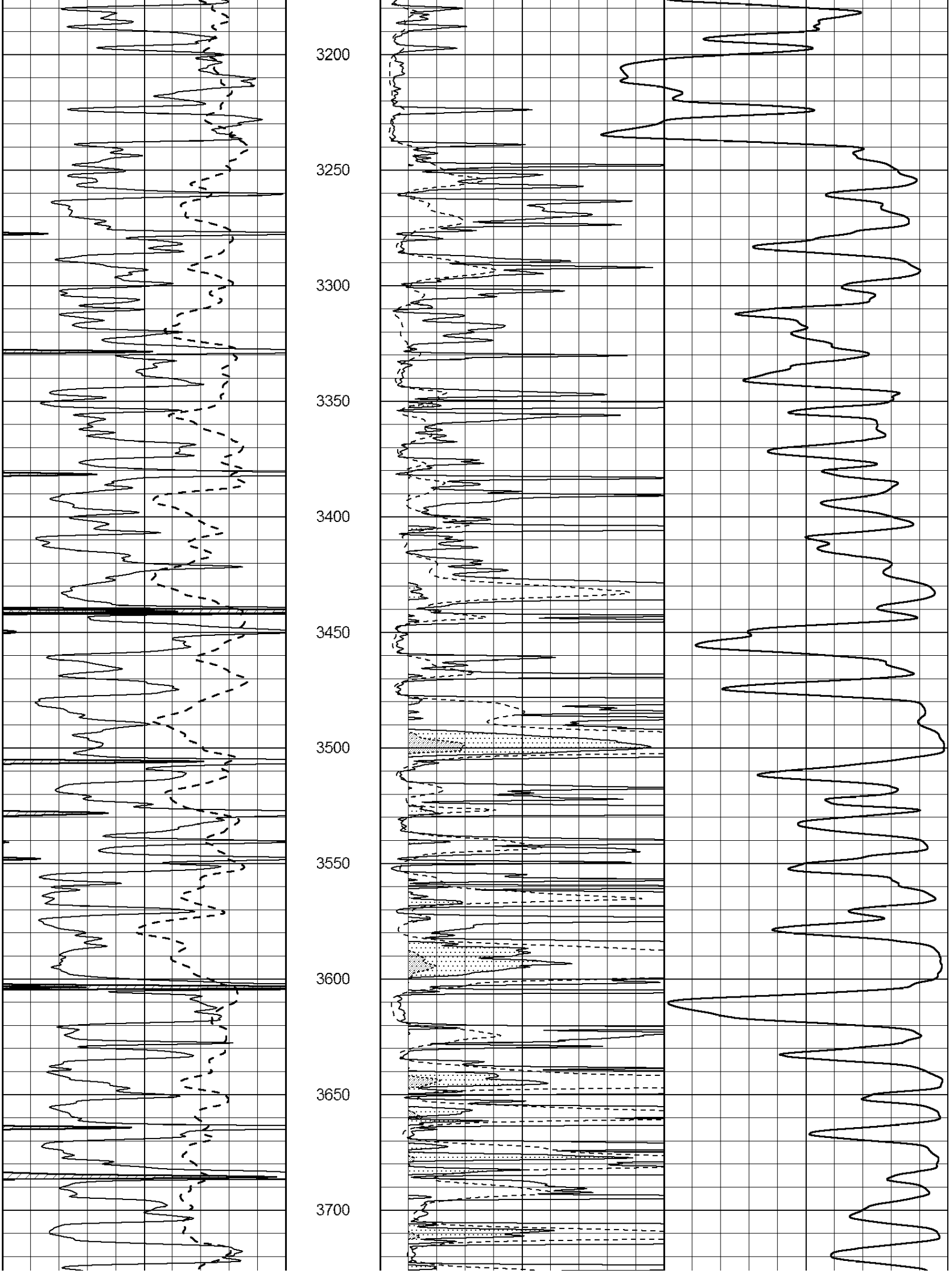
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3650
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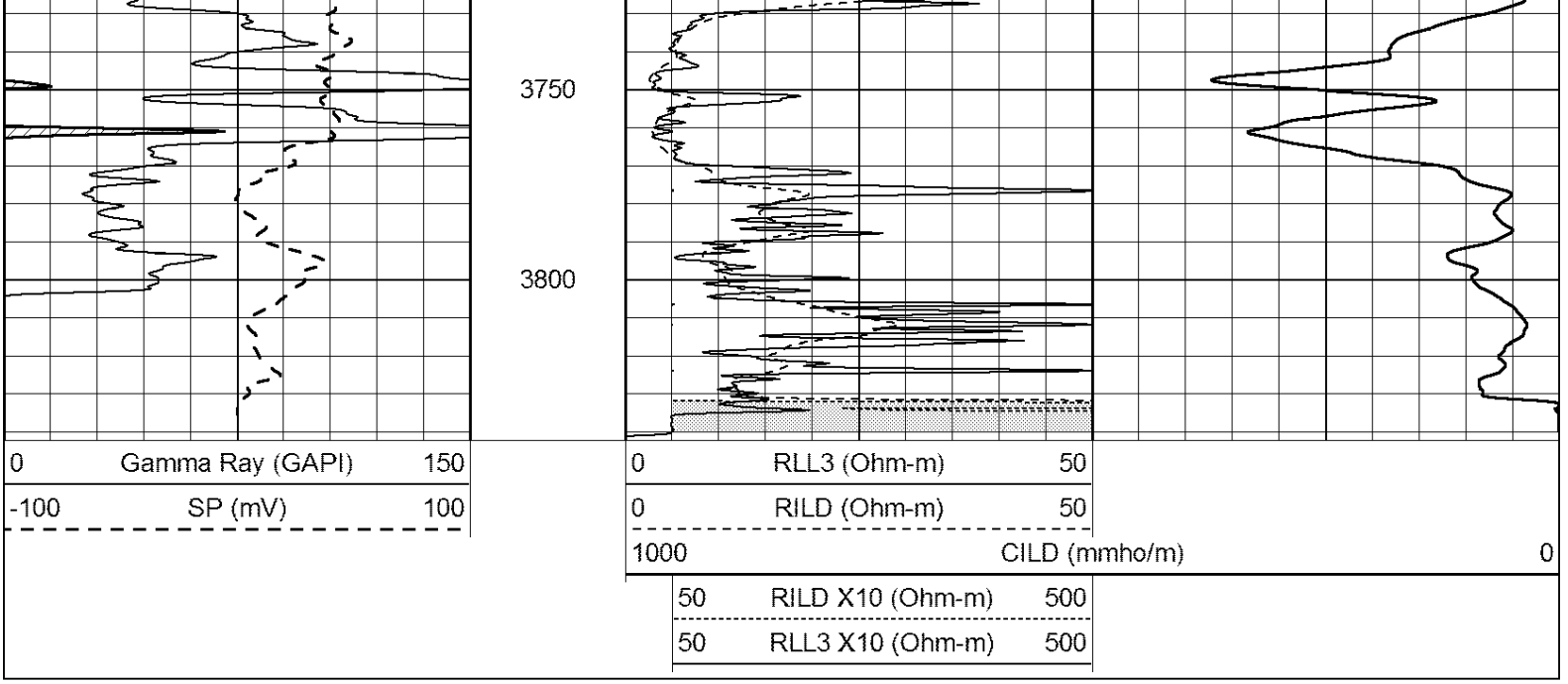
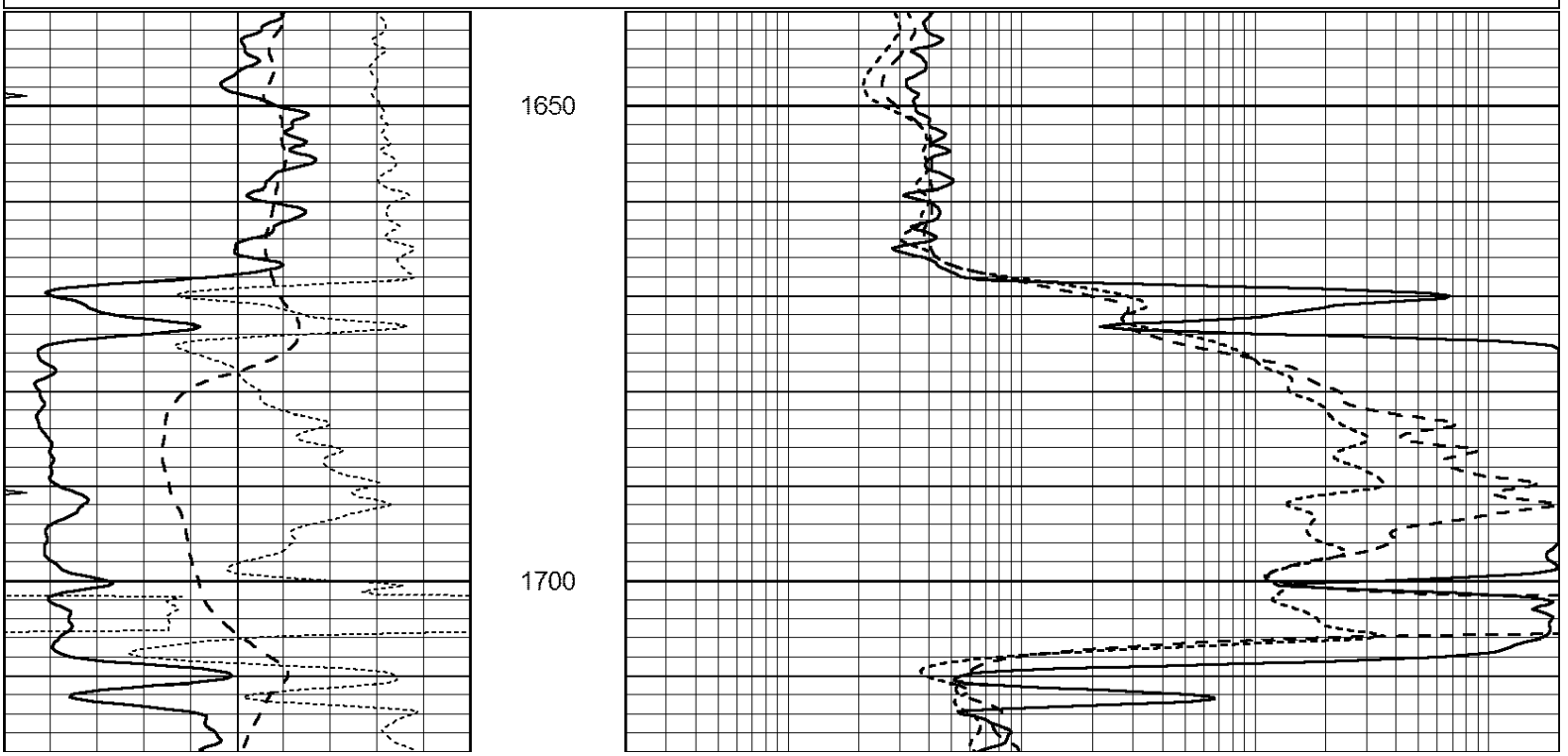


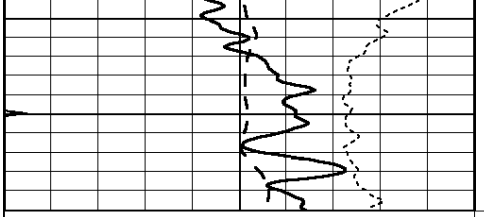
SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

ANHYDRITE

Database File:	408767ddn.db
Dataset Pathname:	pass3.6
Presentation Format:	dil
Dataset Creation:	Mon May 14 21:16:33 2012 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240





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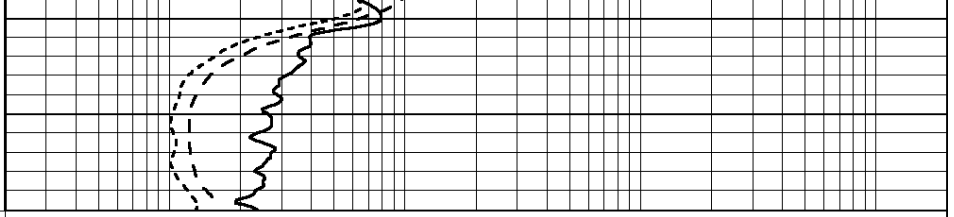
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



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

SUPERIOR WELL SERVICES

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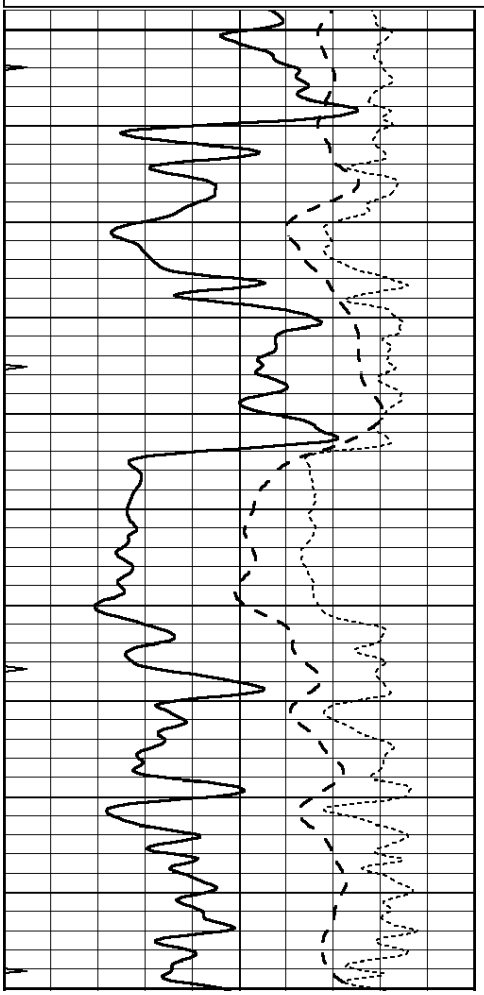
MAIN SECTION

Database File: 408767ddn.db
Dataset Pathname: pass3.5
Presentation Format: dil
Dataset Creation: Mon May 14 21:16:08 2012 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

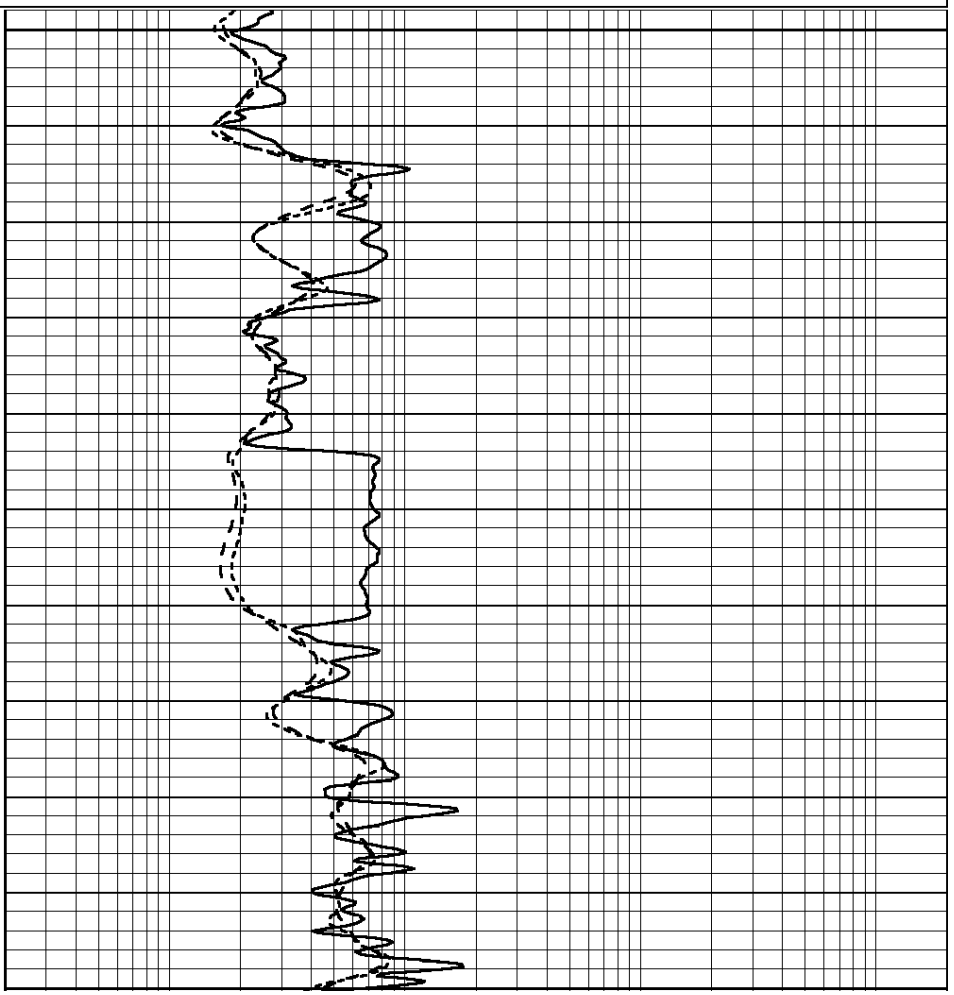
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

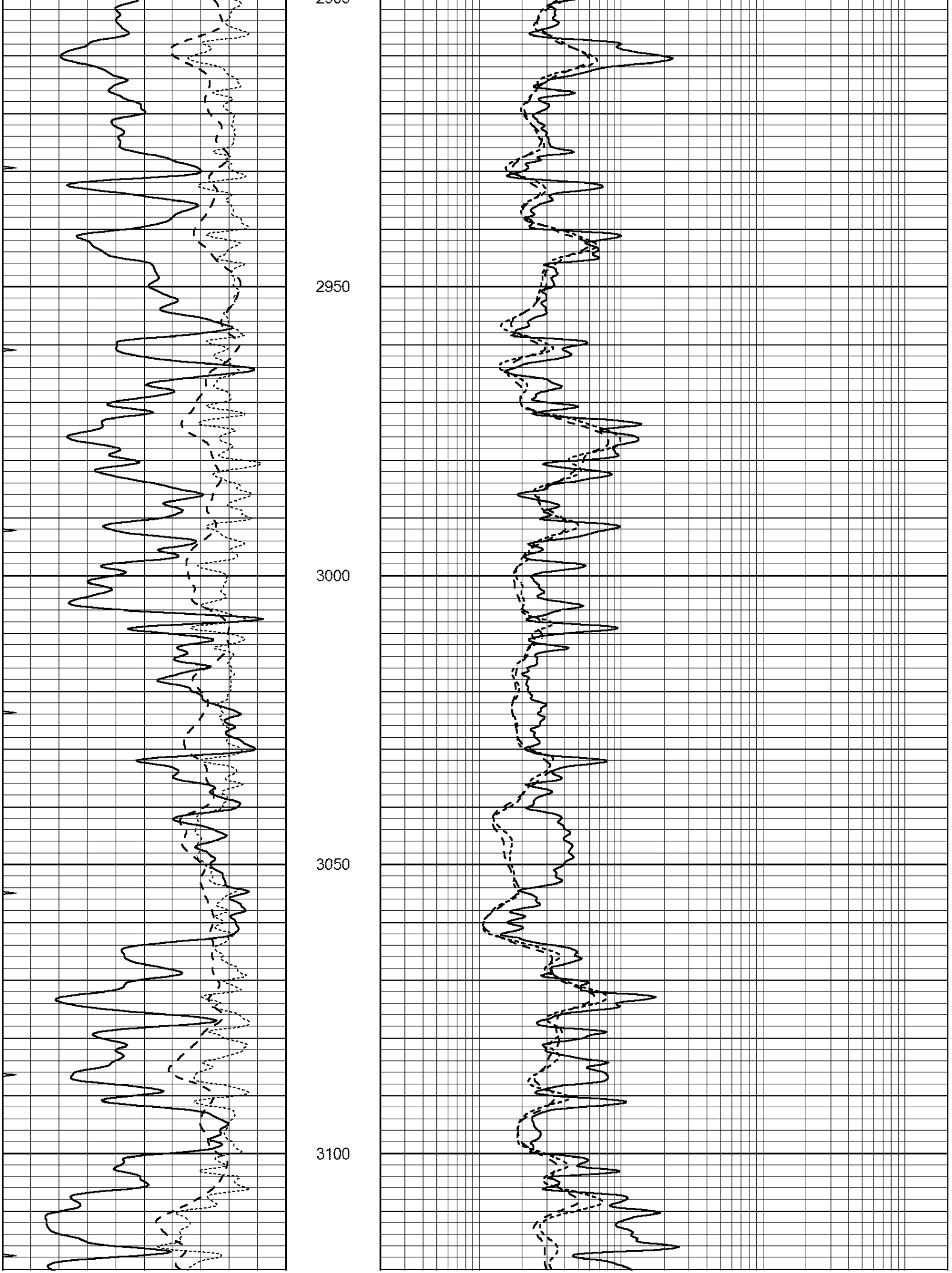


2800

2850

2900

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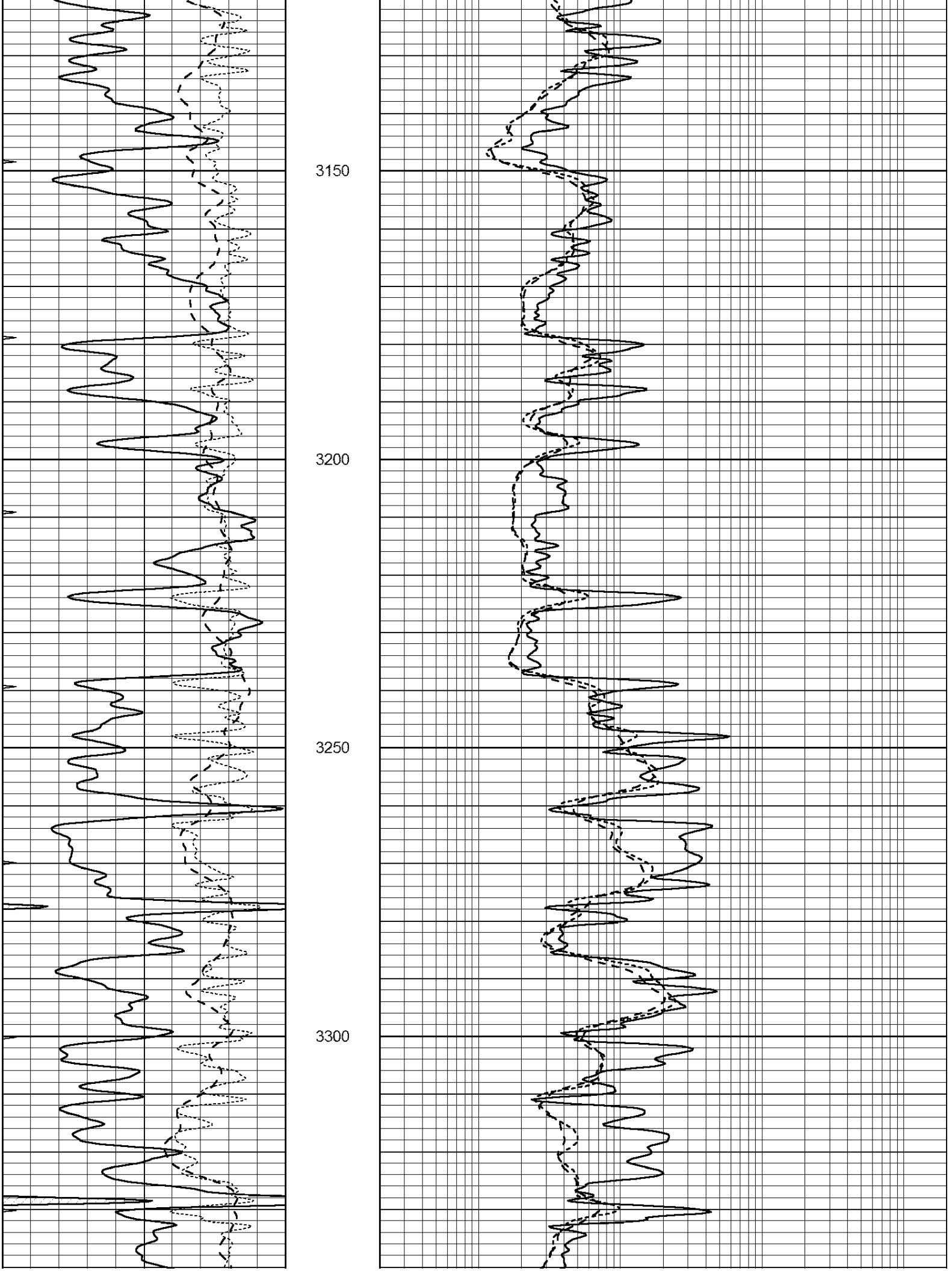
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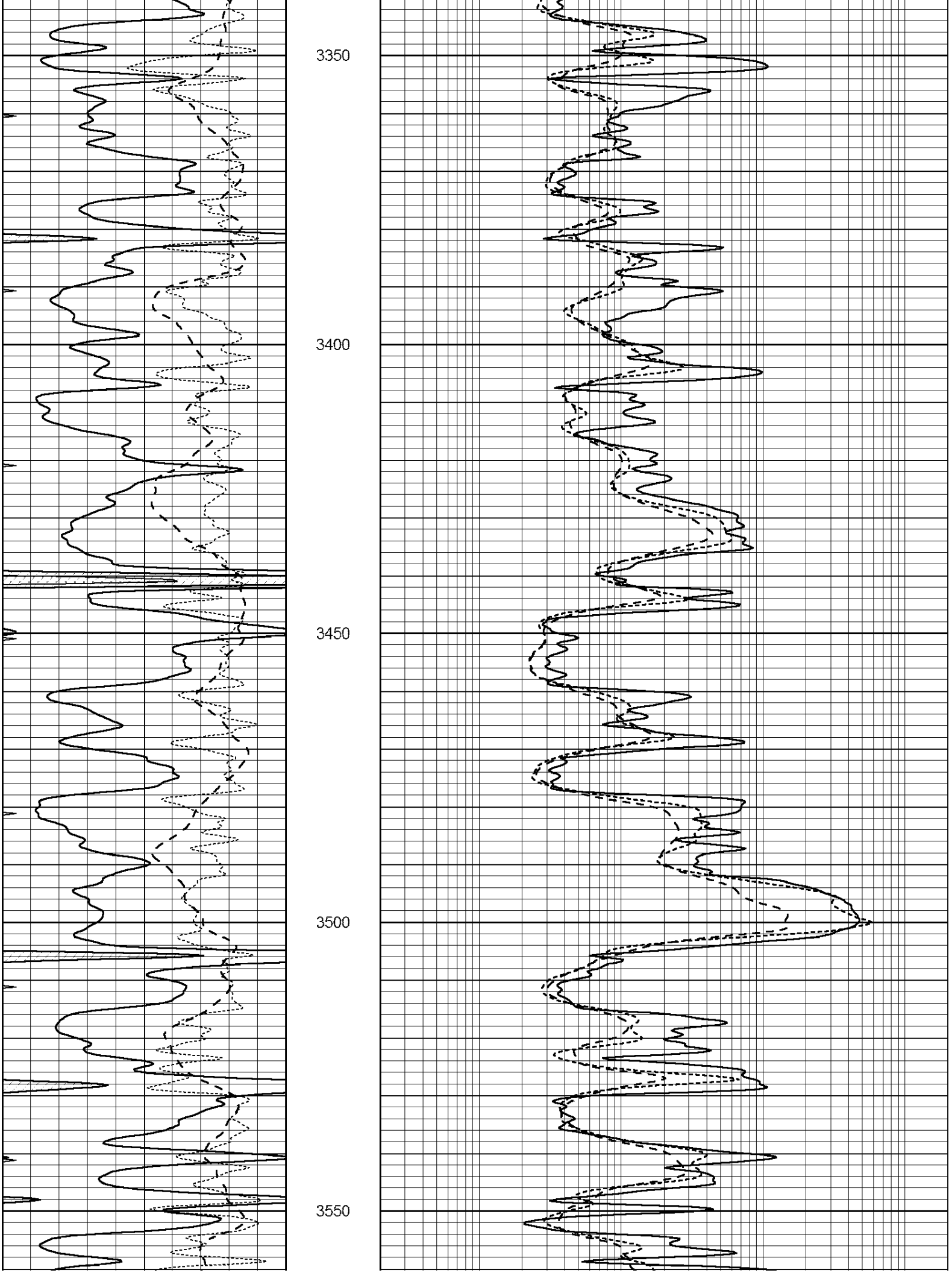
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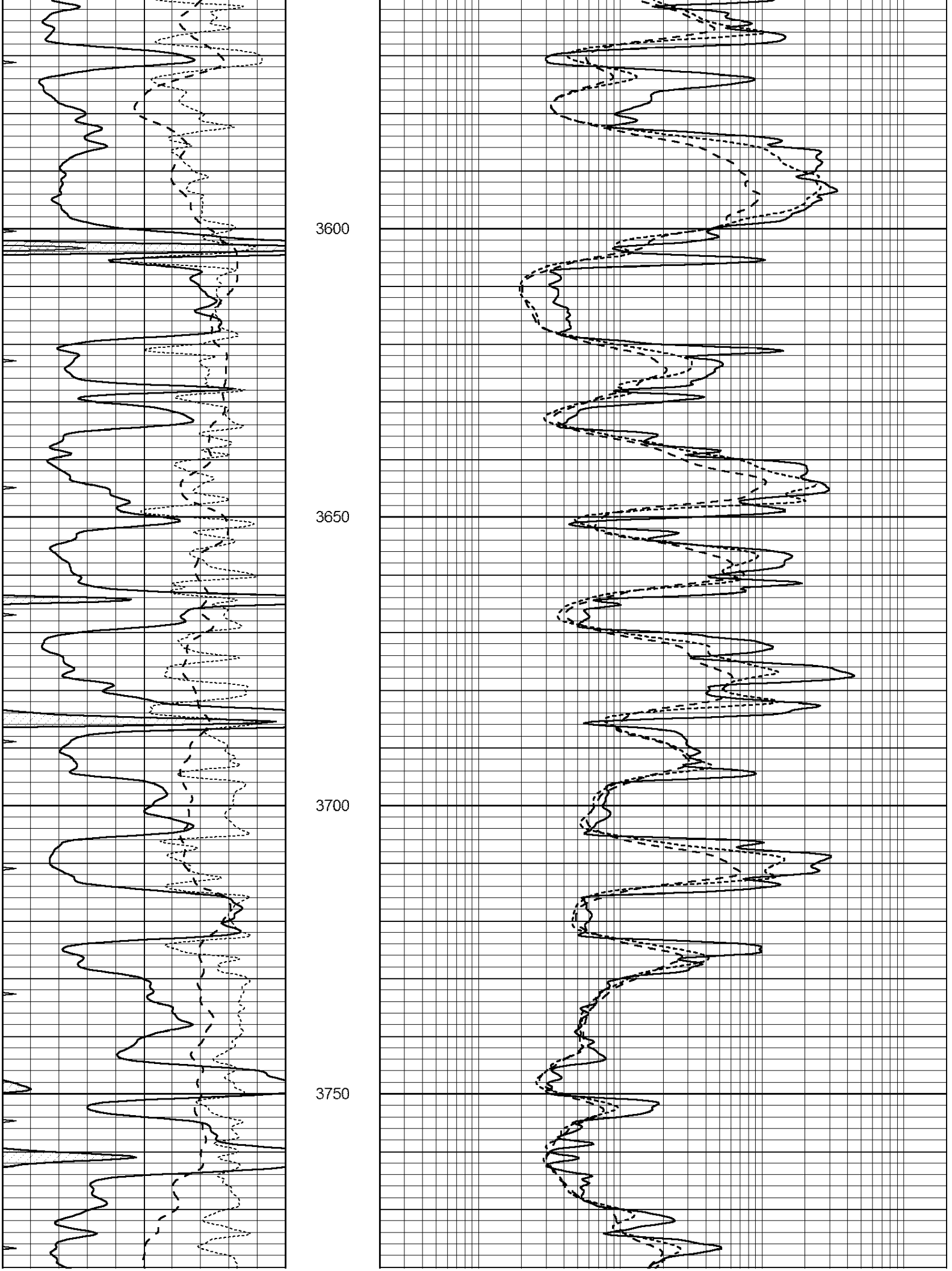
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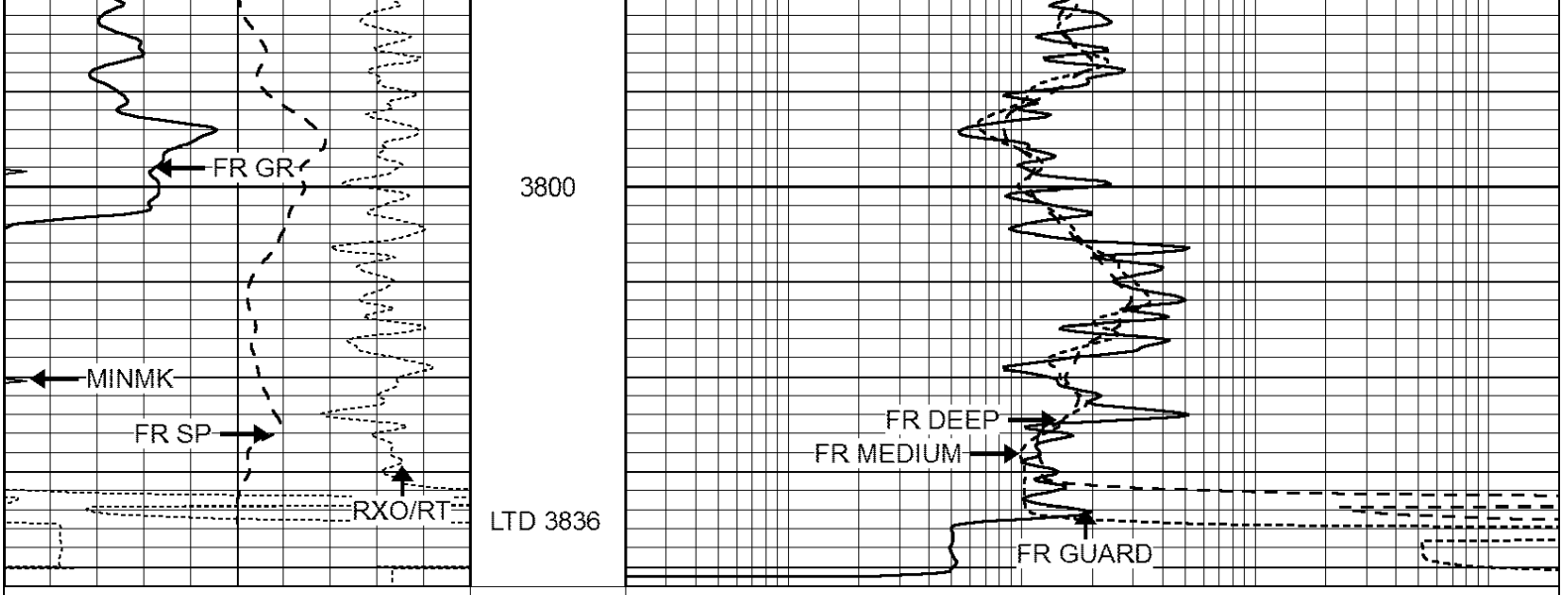

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

SUPERIOR WELL SERVICES

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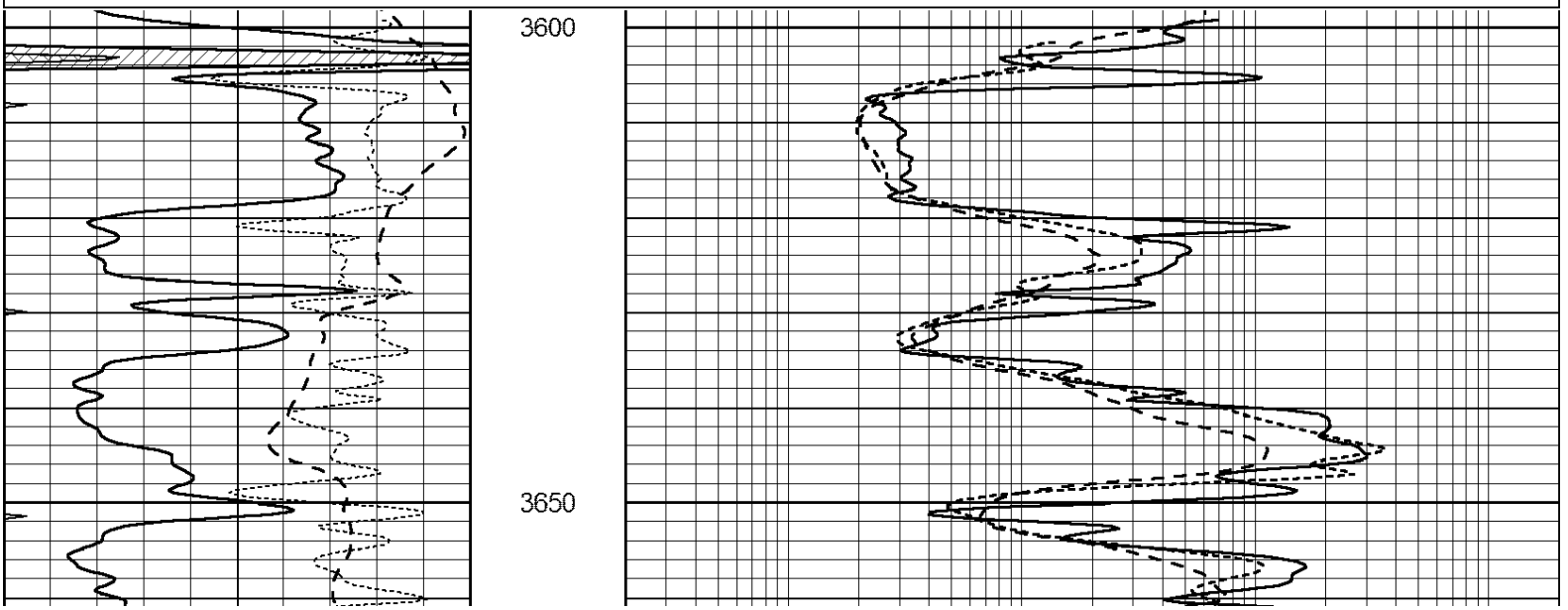
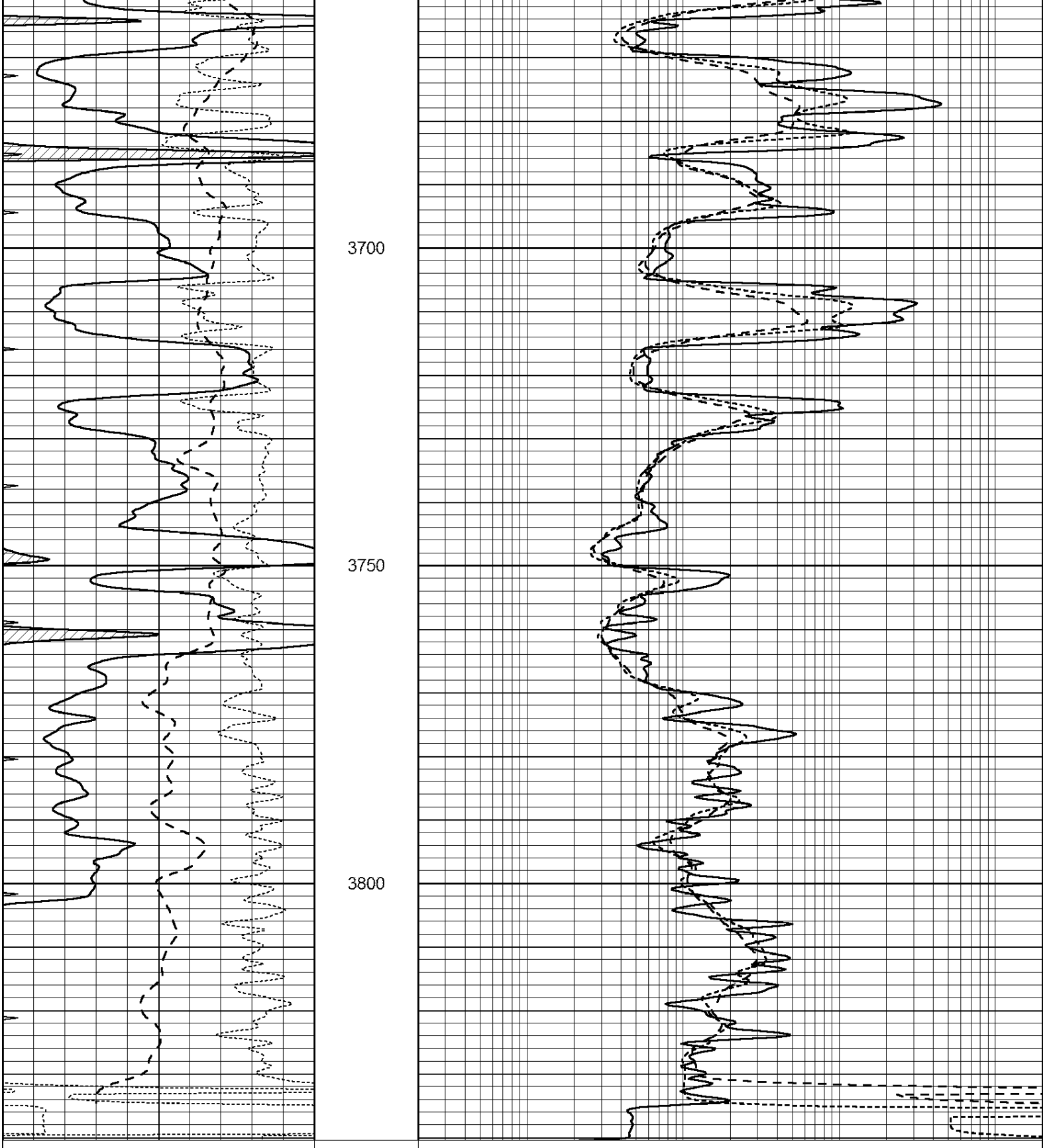
REPEAT SECTION

Database File:	408767ddn.db
Dataset Pathname:	pass2.8
Presentation Format:	dil
Dataset Creation:	Mon May 14 20:30:39 2012 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (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	Rxo/Rt	50
0	MINMK	20

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

Calibration Report

Database File: 408767ddn.db
Dataset Pathname: pass3.5

Dataset Pathname: pass3.6
Dataset Creation: Mon May 14 21:16:08 2012 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
Performed: Mon May 14 20:00:22 2012

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	-6.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	-7.500
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549

Litho Density Calibration Report

Serial: 003N Model: PRB
Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper

	Readings	Reference
Low Ref	3.4	7.9
High Ref	5.5	15.0
	Gain: 3.4	Offset: -3.5

Compensated Neutron Calibration Report

Serial Number: 070808
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: 070559
Tool Model: OPEN_GR

Performed:	Wed May 09 19:59:59 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3000	GAPI/cps