SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company HESS OIL COMPANY
Well PFISTER #1-6
Field FREY
County STAFFORD State KANSAS

Location: API # : 15-185-23653

990' FSL & 470' FEL

SEC 6 TWP 21S RGE 14W

Other Services
CDL/CNL
SONIC/MEL

Permanent Datum GROUND LEVEL Elevation 1922
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1927
D.F.
G.L. 1922

Company HESS OIL COMPANY
Well PFISTER #1-6
Field FREY
County STAFFORD
State KANSAS

Date	12-14-10		
Run Number	ONE		
Depth Driller	3800		
Depth Logger	3800		
Bottom Logged Interval	3798		
Top Log Interval	00		
Casing Driller	888		
Casing Logger	888		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 57		
pH / Fluid Loss	10.5 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10 @ 70F		
Rmf @ Meas. Temp	0.83 @ 70F		
Rmc @ Meas. Temp	1.32 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.680 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:00 A.M.		
Maximum Recorded Temperature	113F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	DEREK PATTERSON		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: LARNED & #56, E TO RADIUM BLACKTOP, 7S TO RD. #200, 1/8W, N INTO.

MAIN SECTION

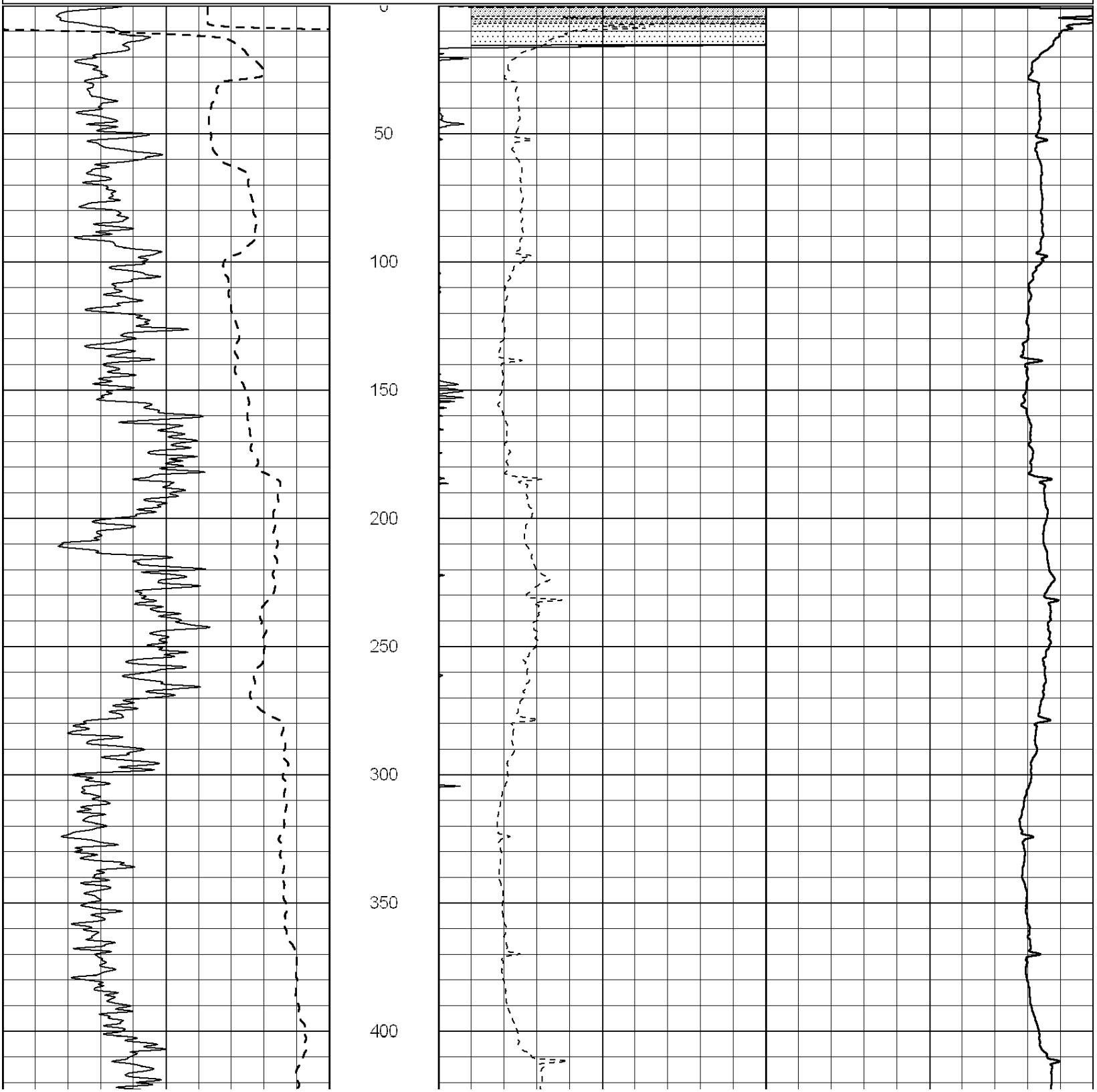
SUPERIOR
Hays,

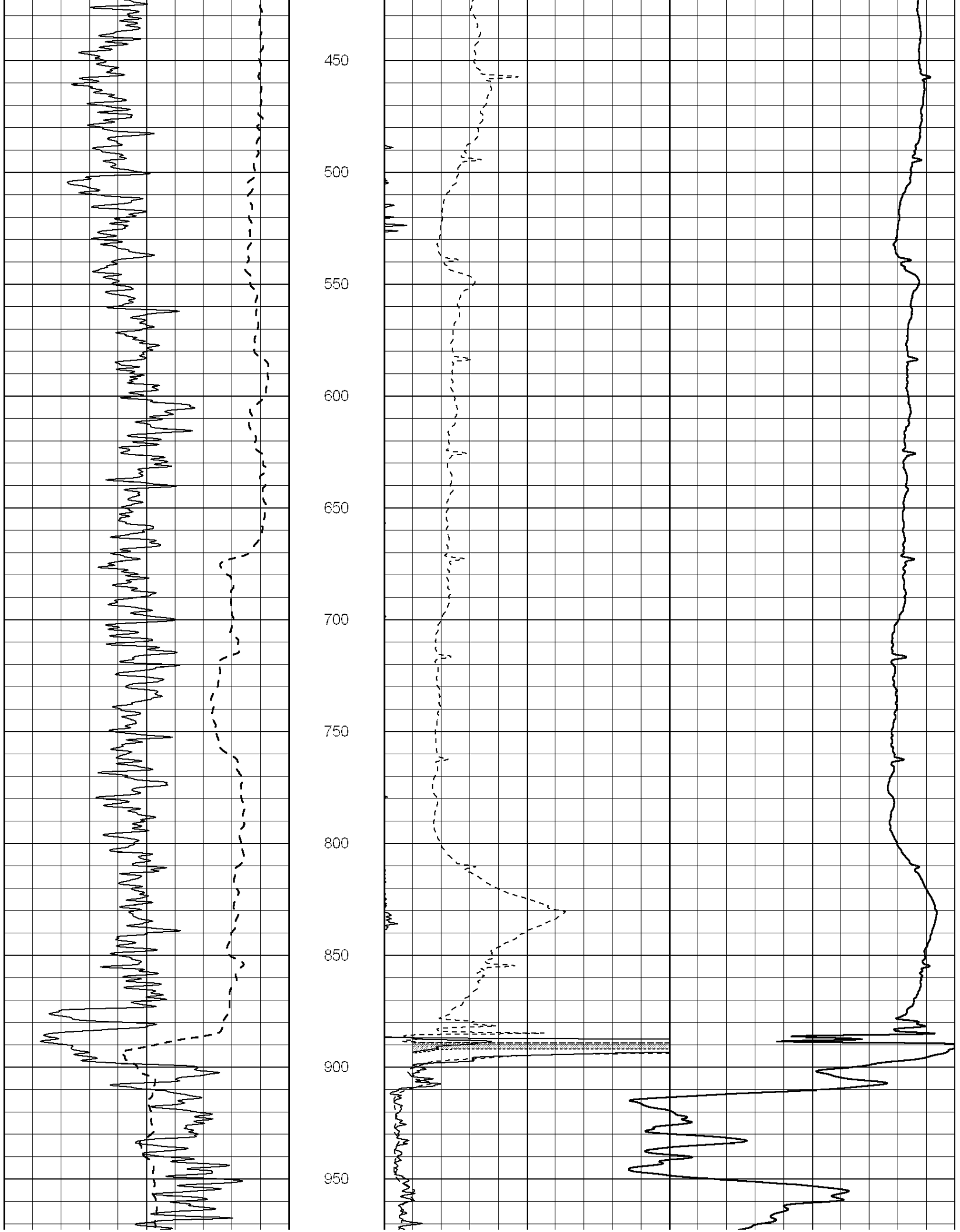
Kansas

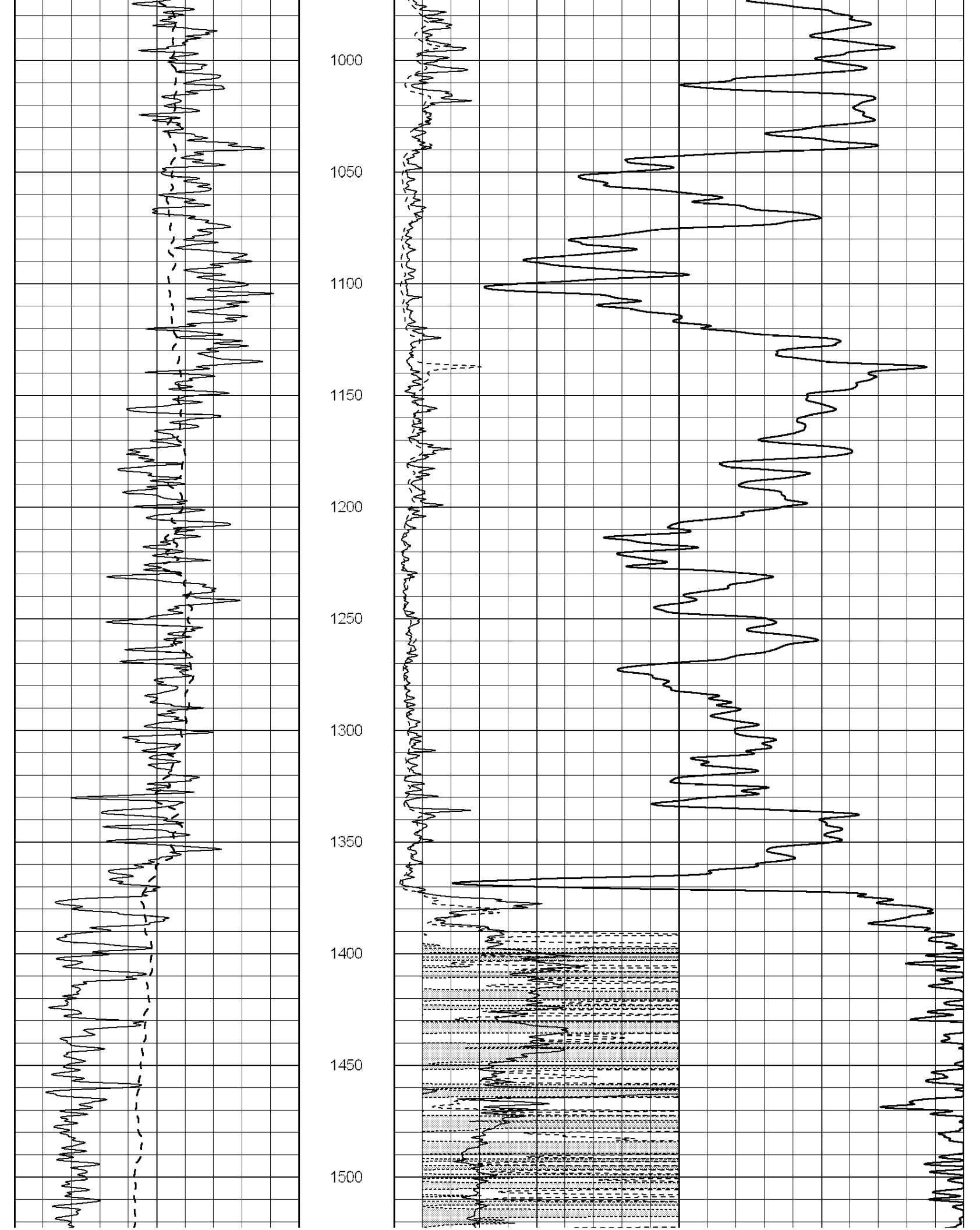
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Dataset Creation:	Tue Dec 14 03:29:50 2010
Charted by:	Depth in Feet scaled 1:600

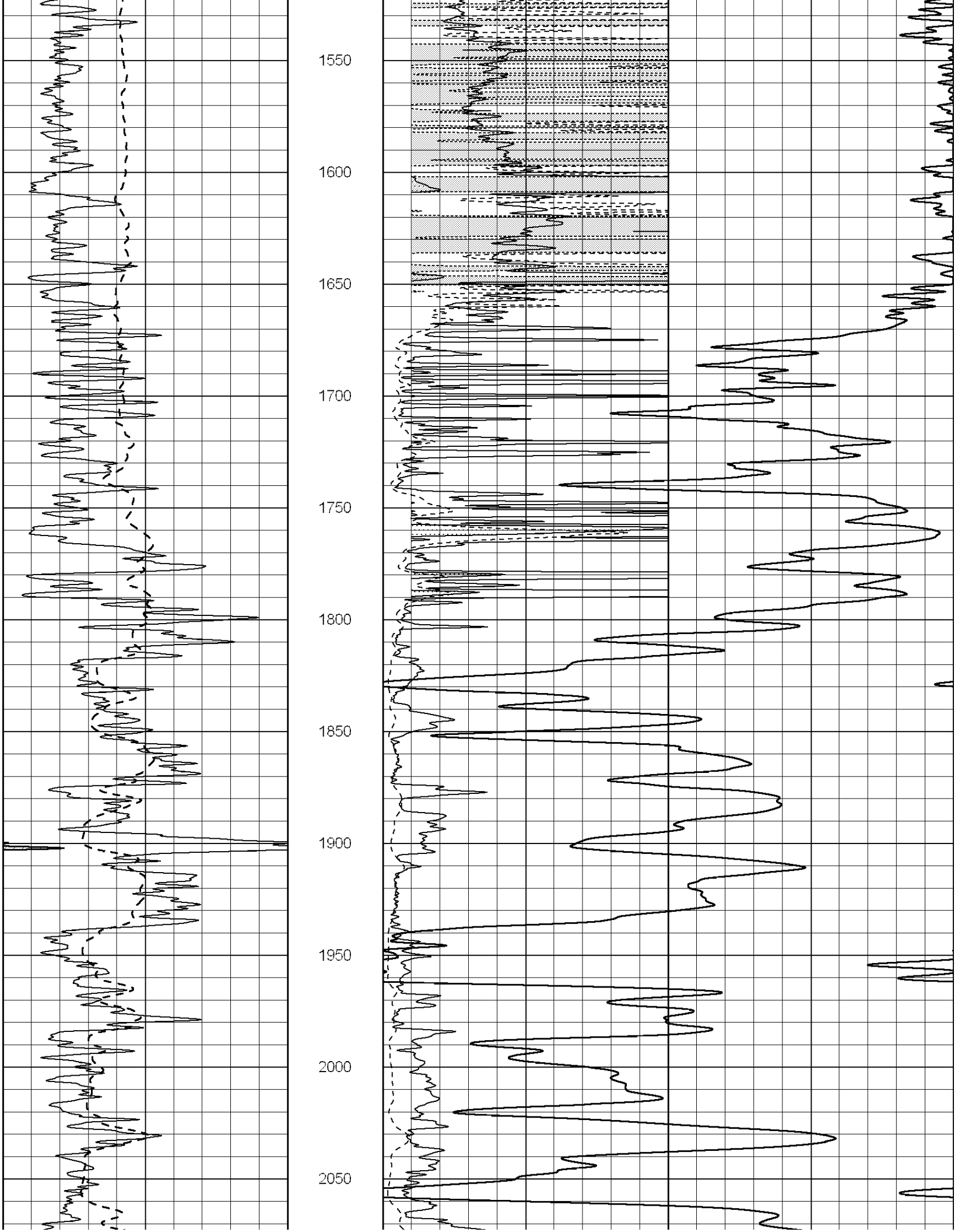
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

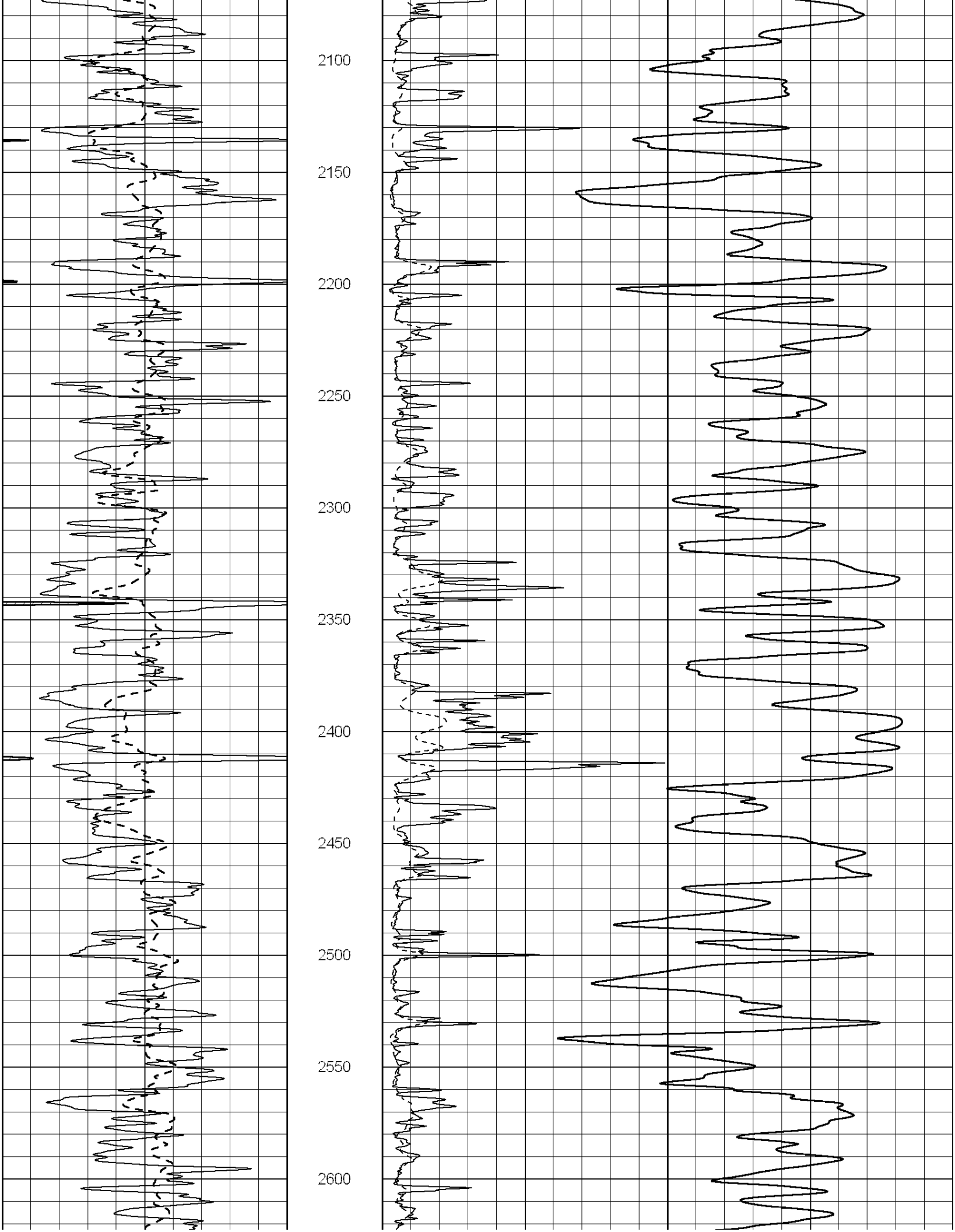
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

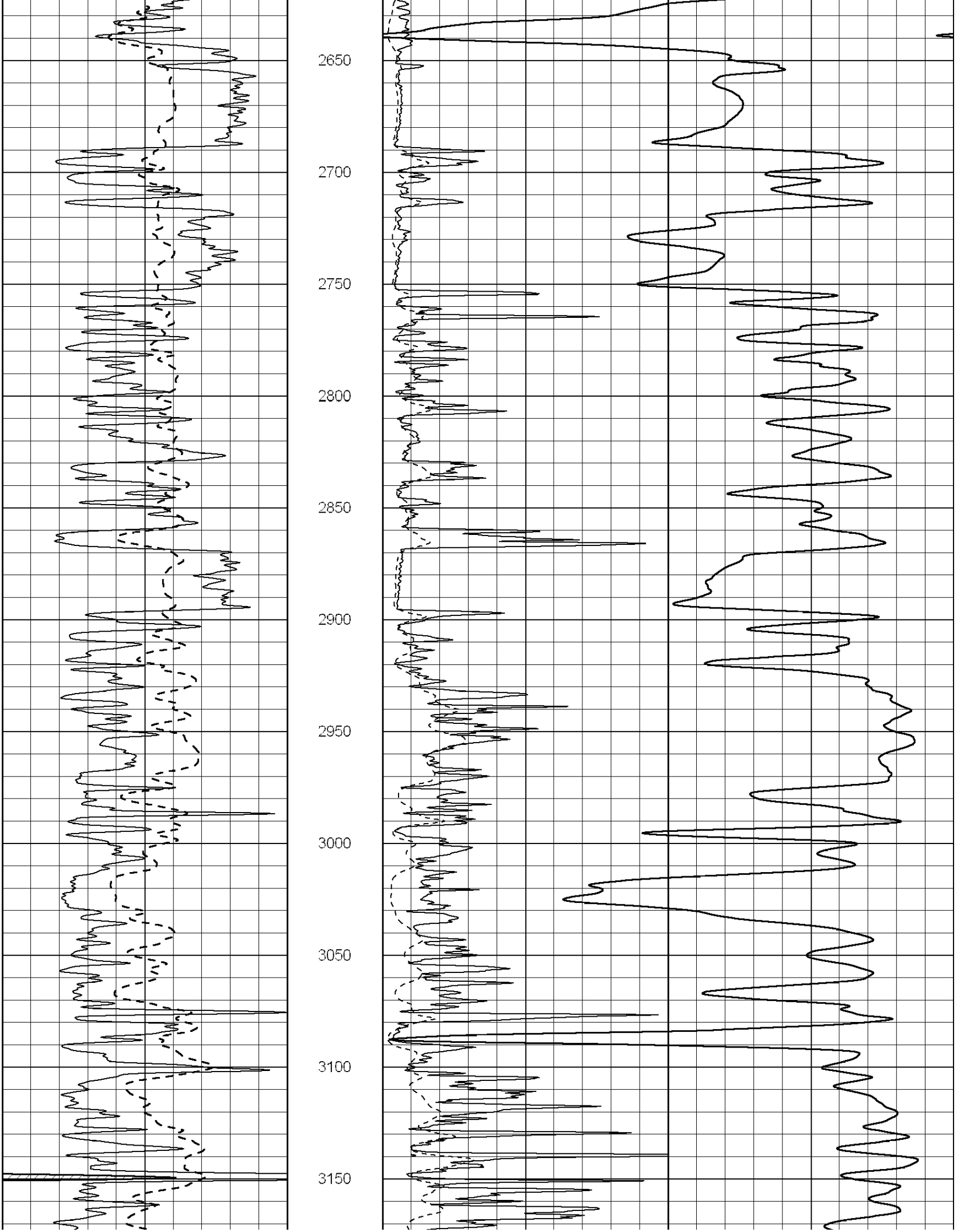


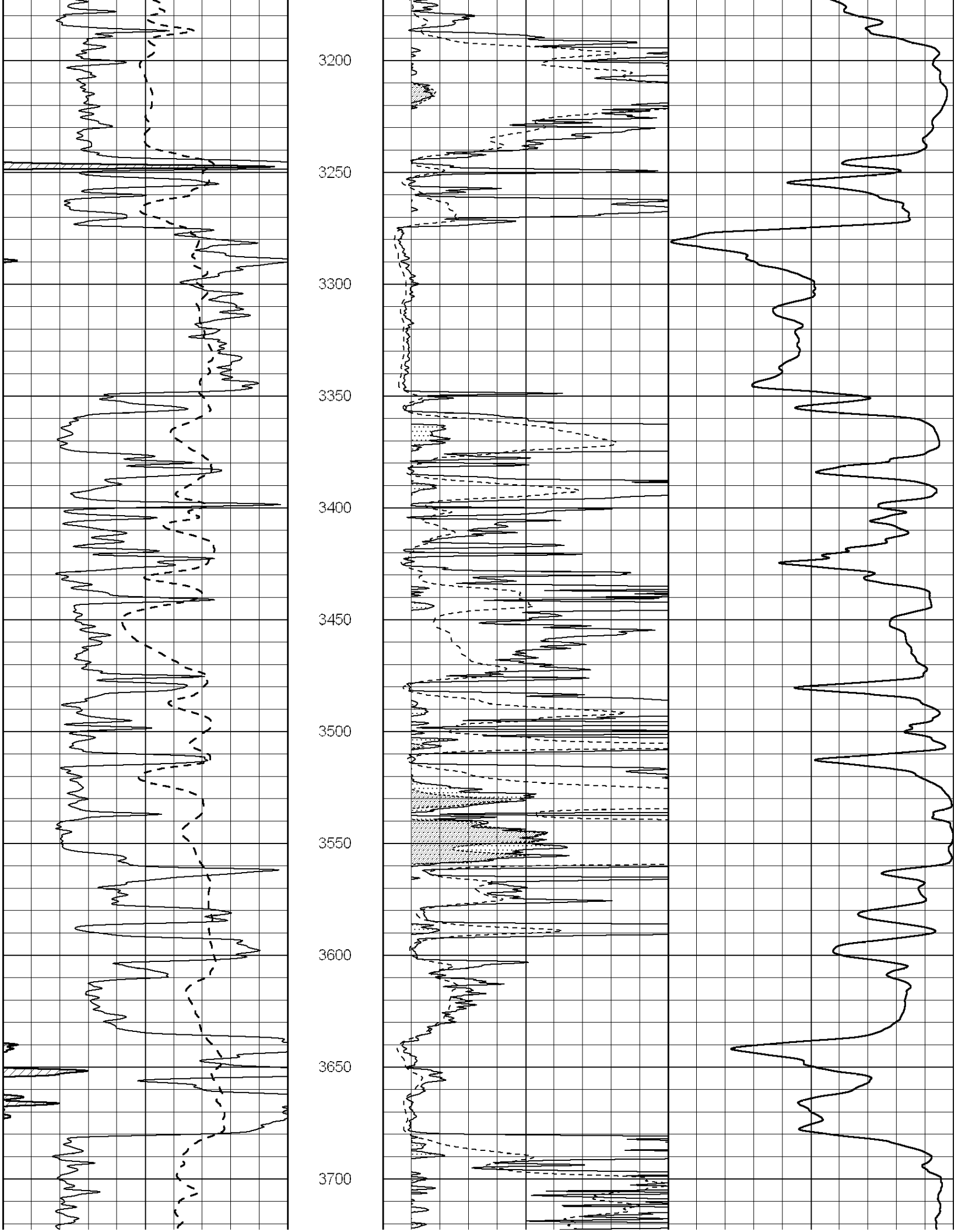

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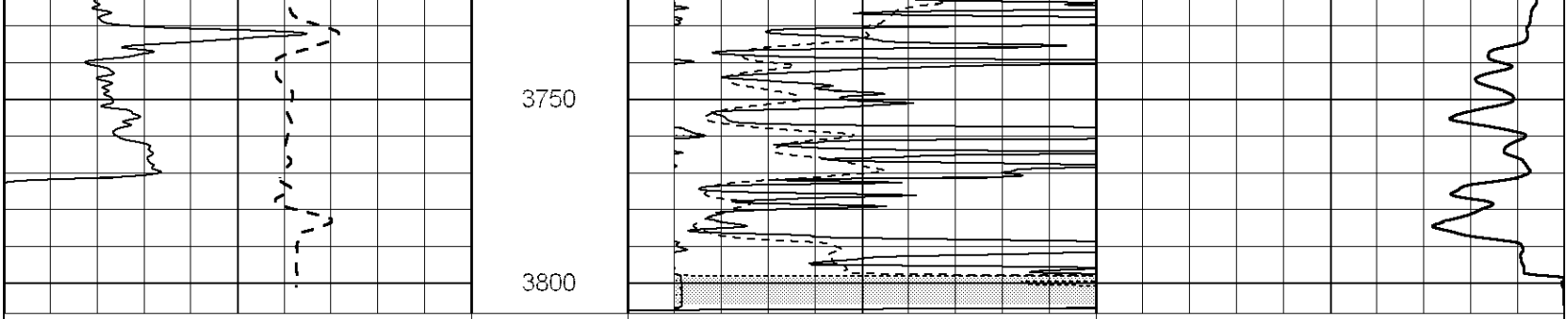

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SUPERIOR WELL SERVICES

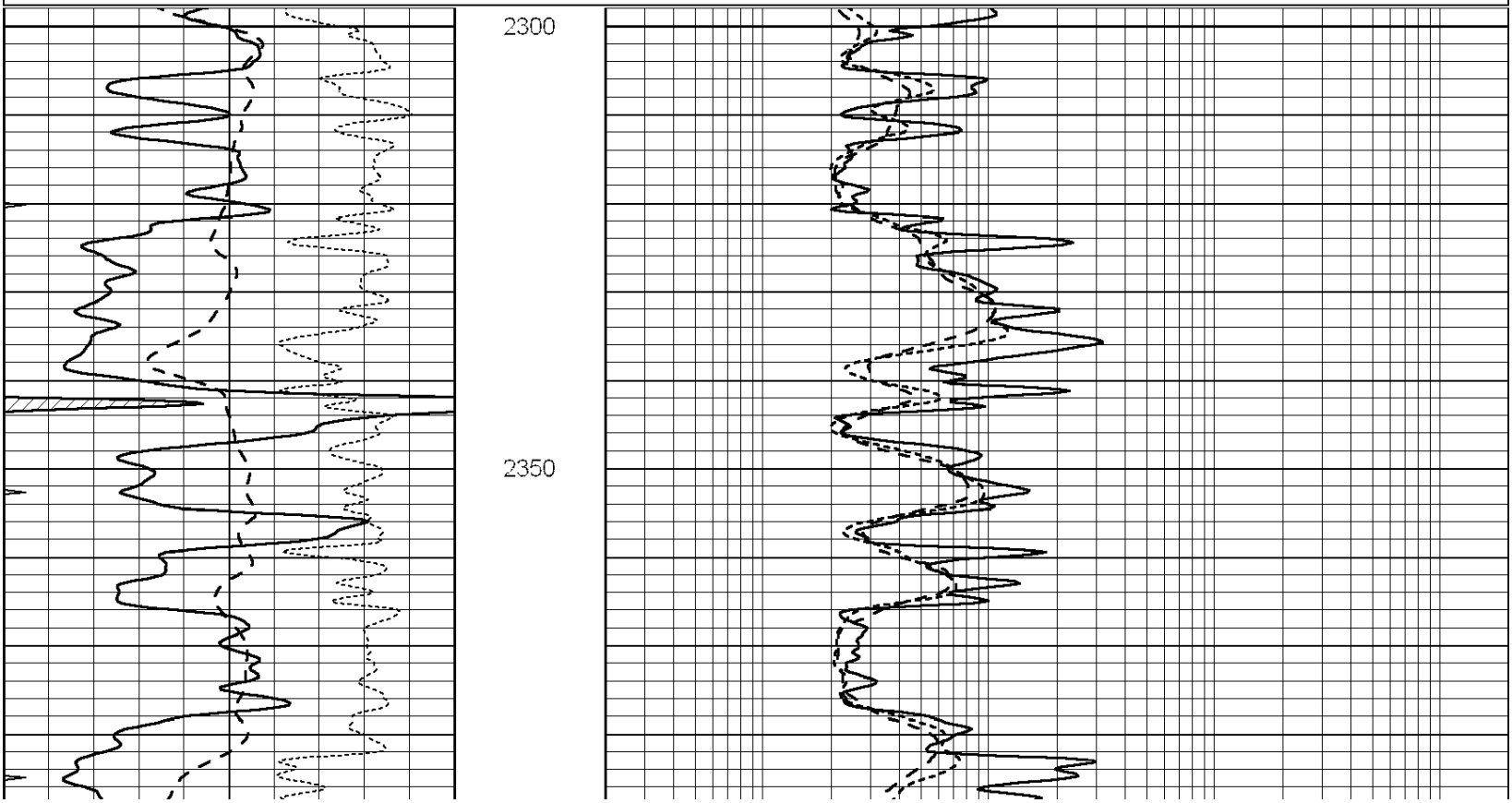
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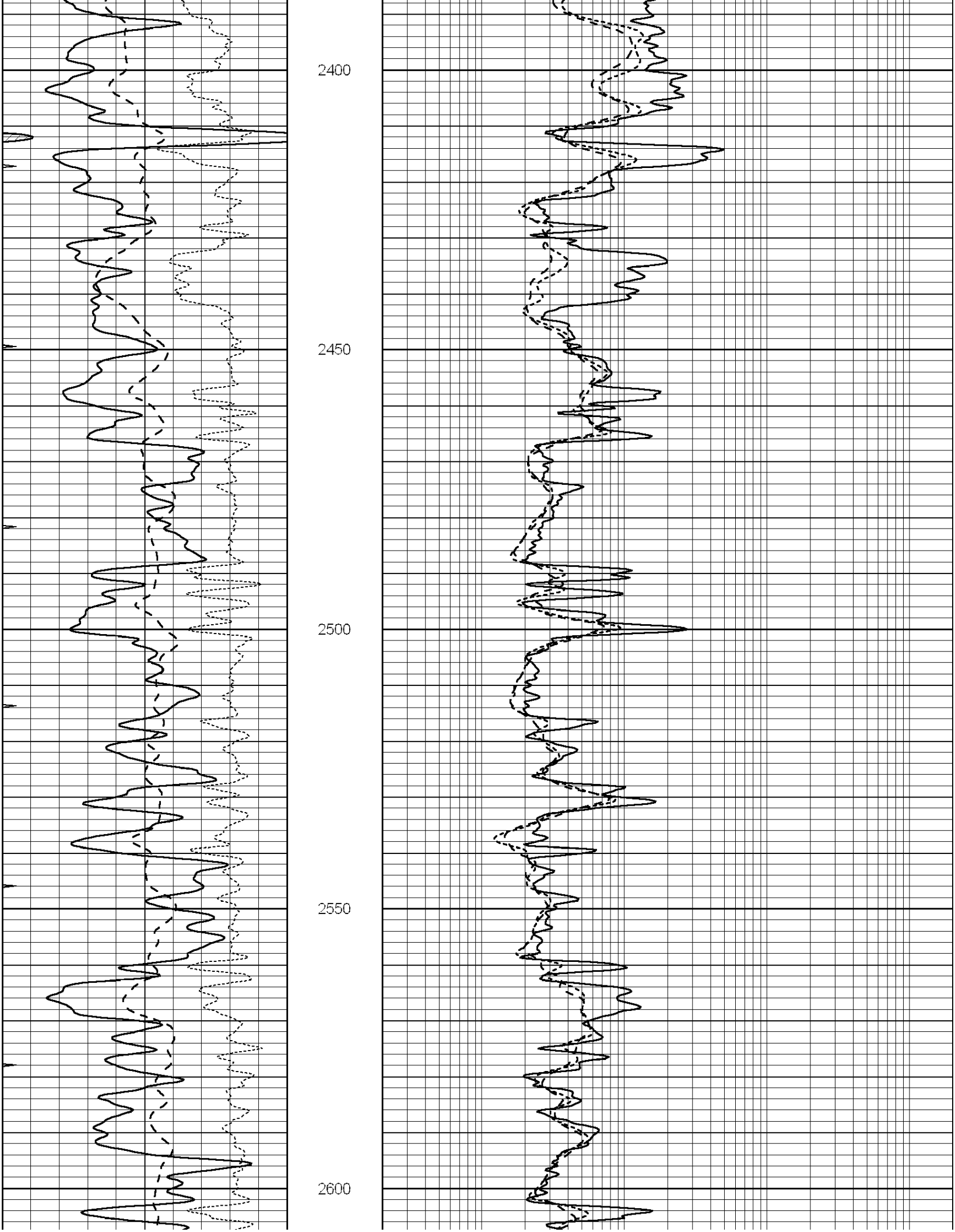
MAIN SECTION

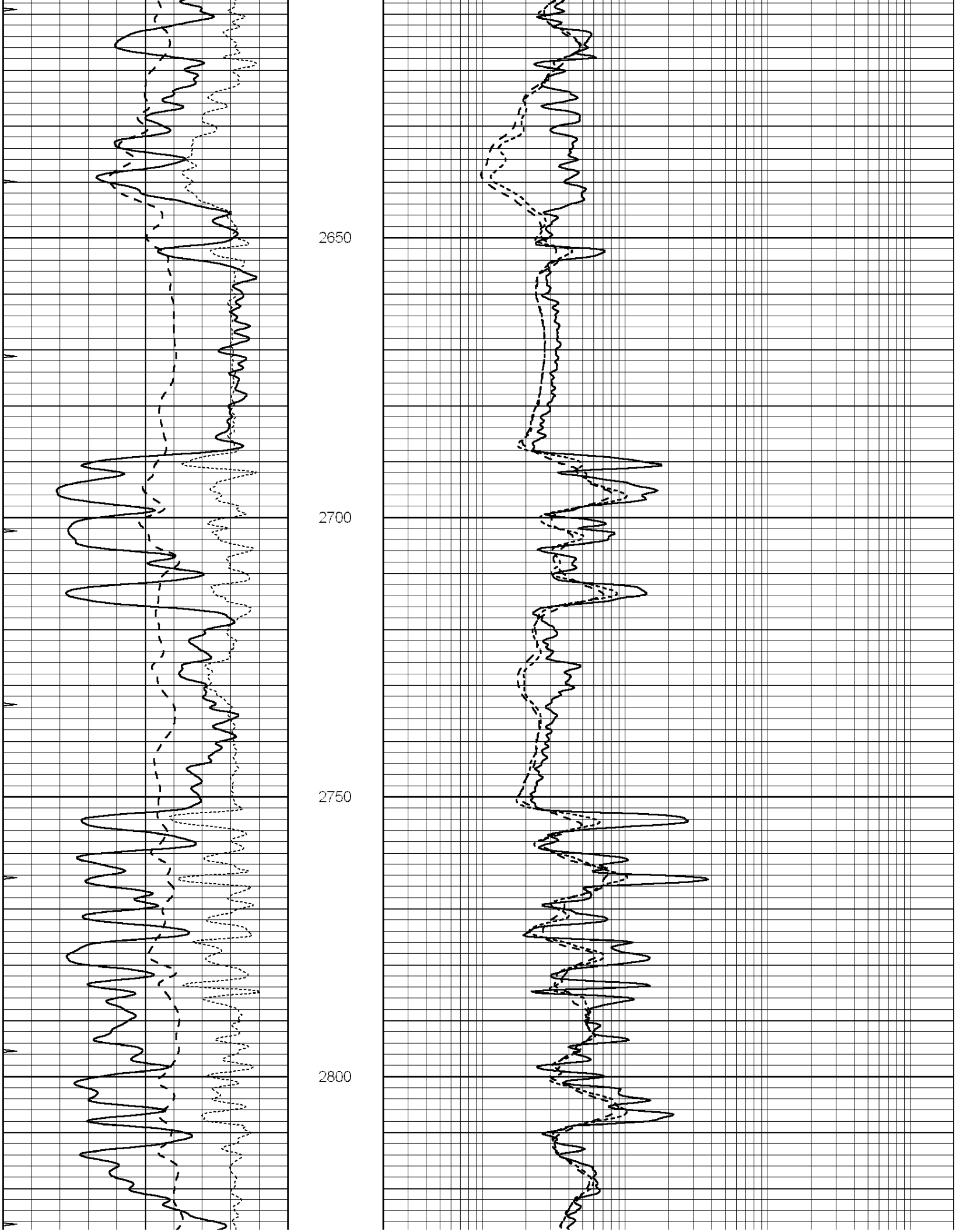
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Charted by:	Depth in Feet scaled 1:240

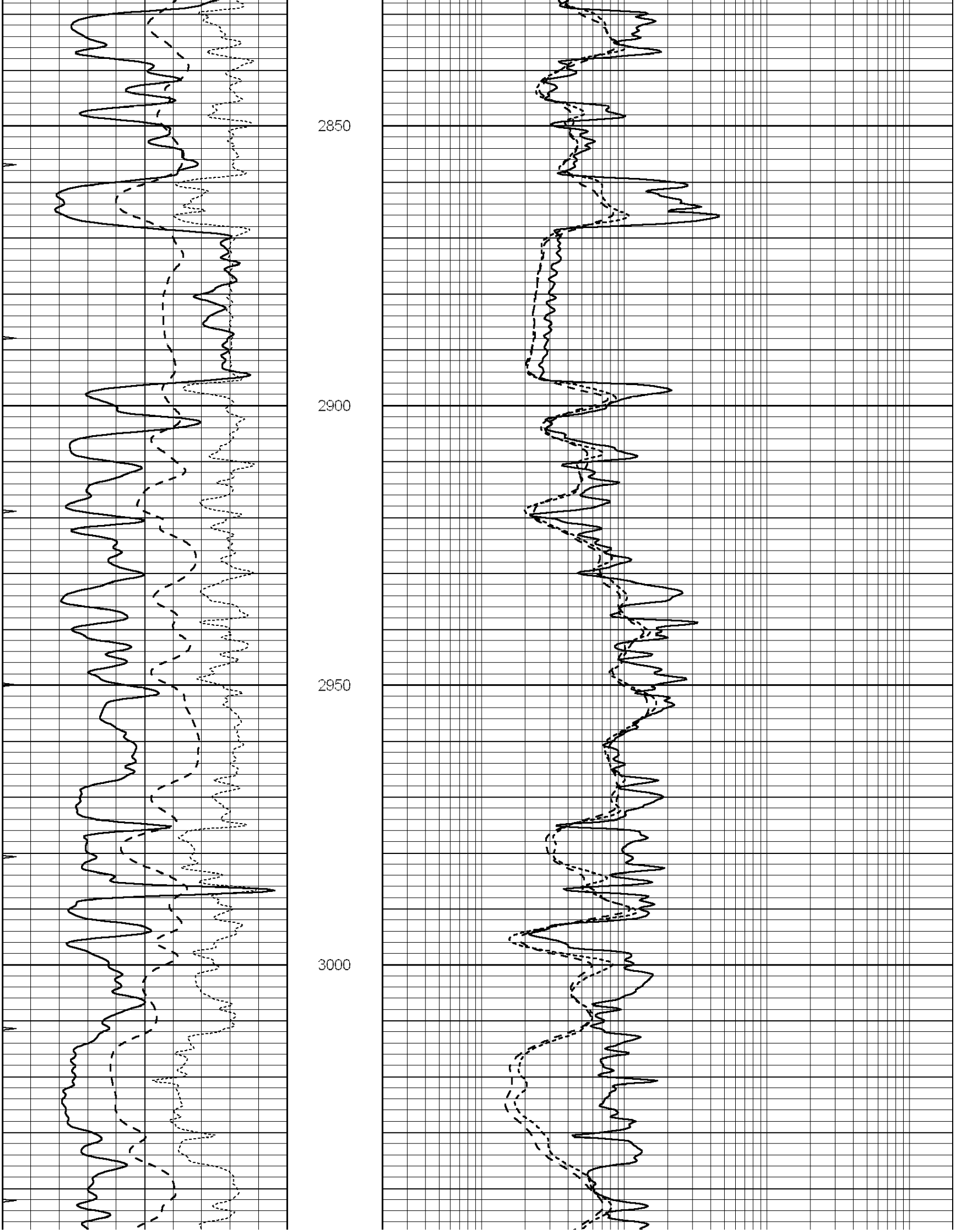
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

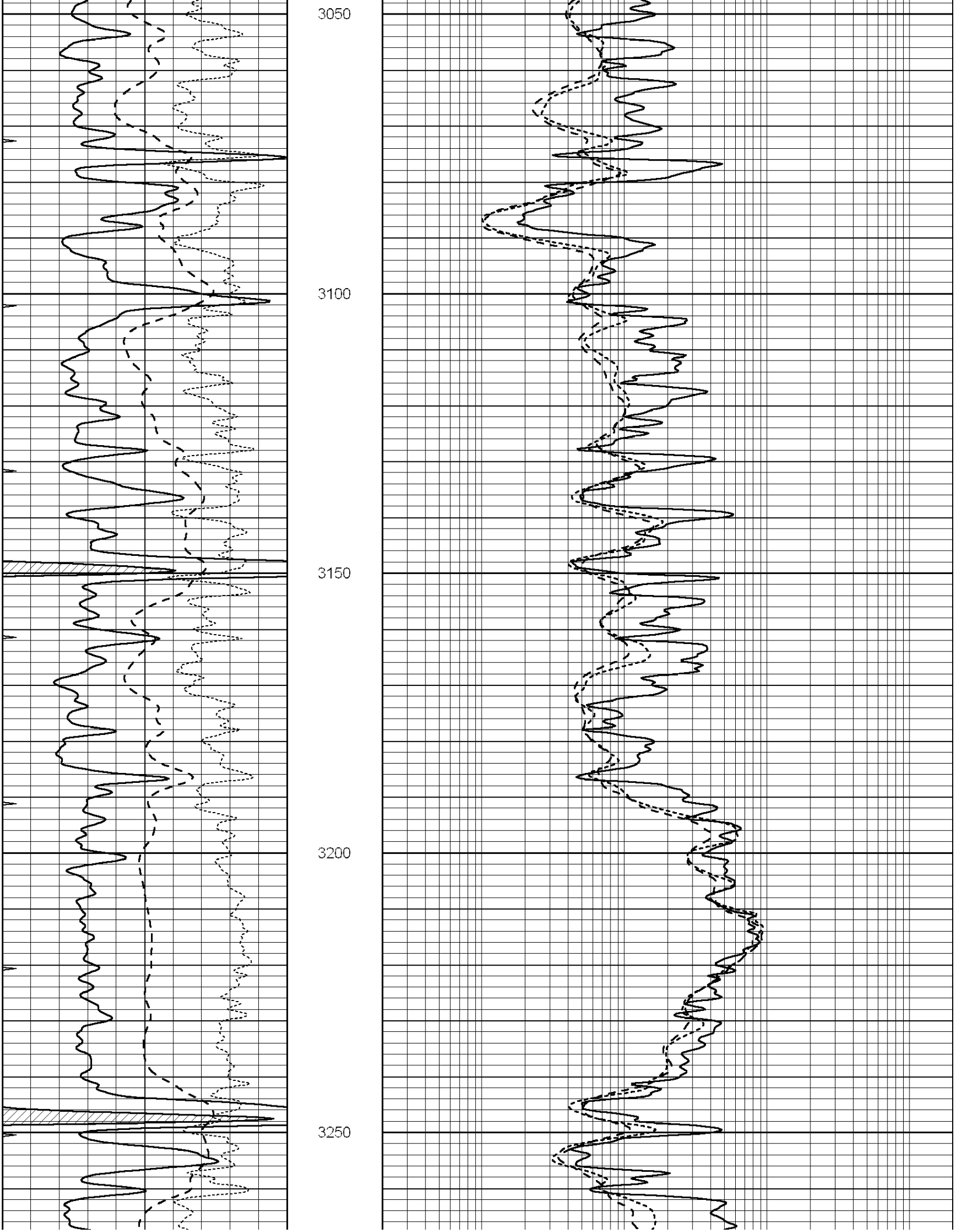
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

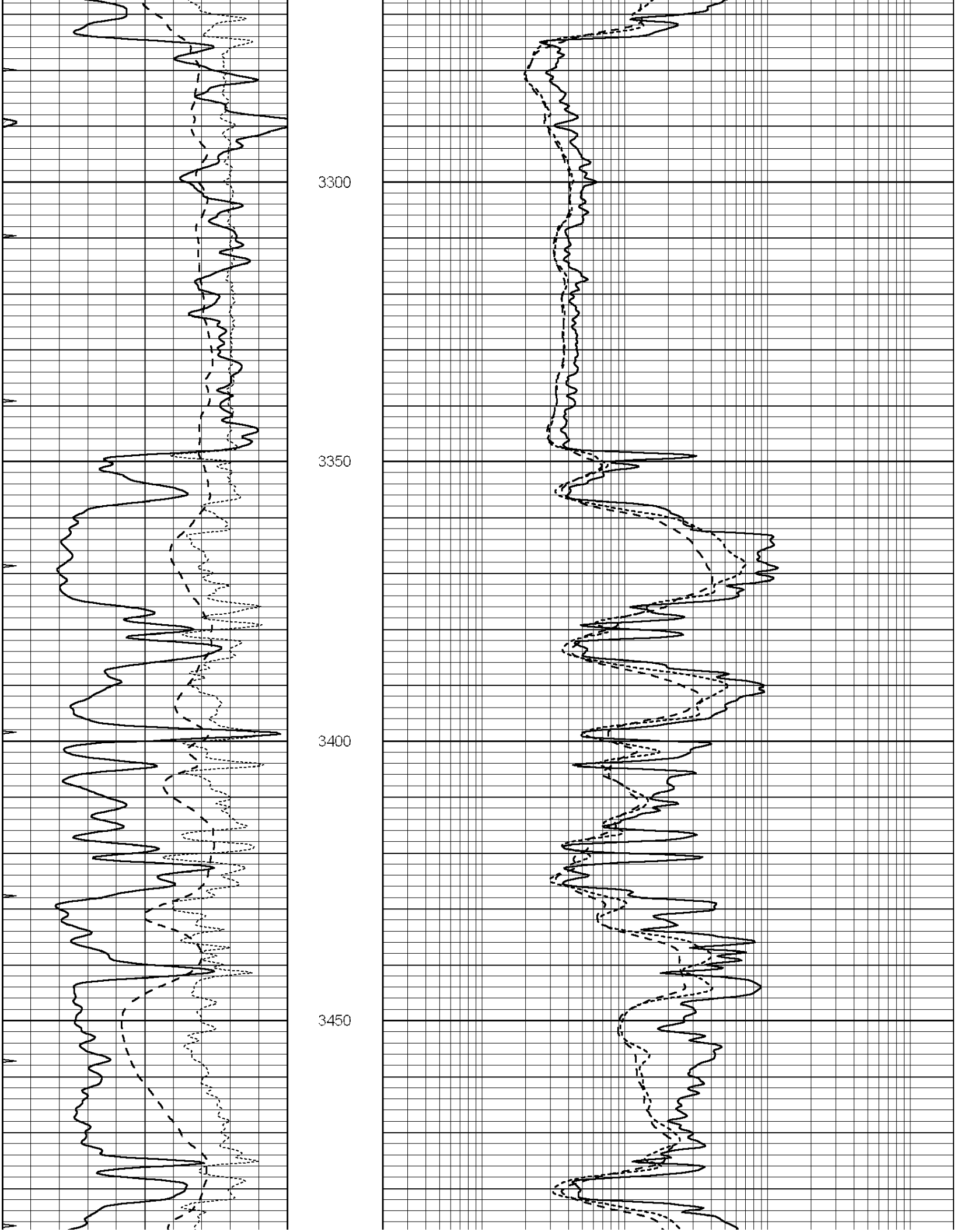


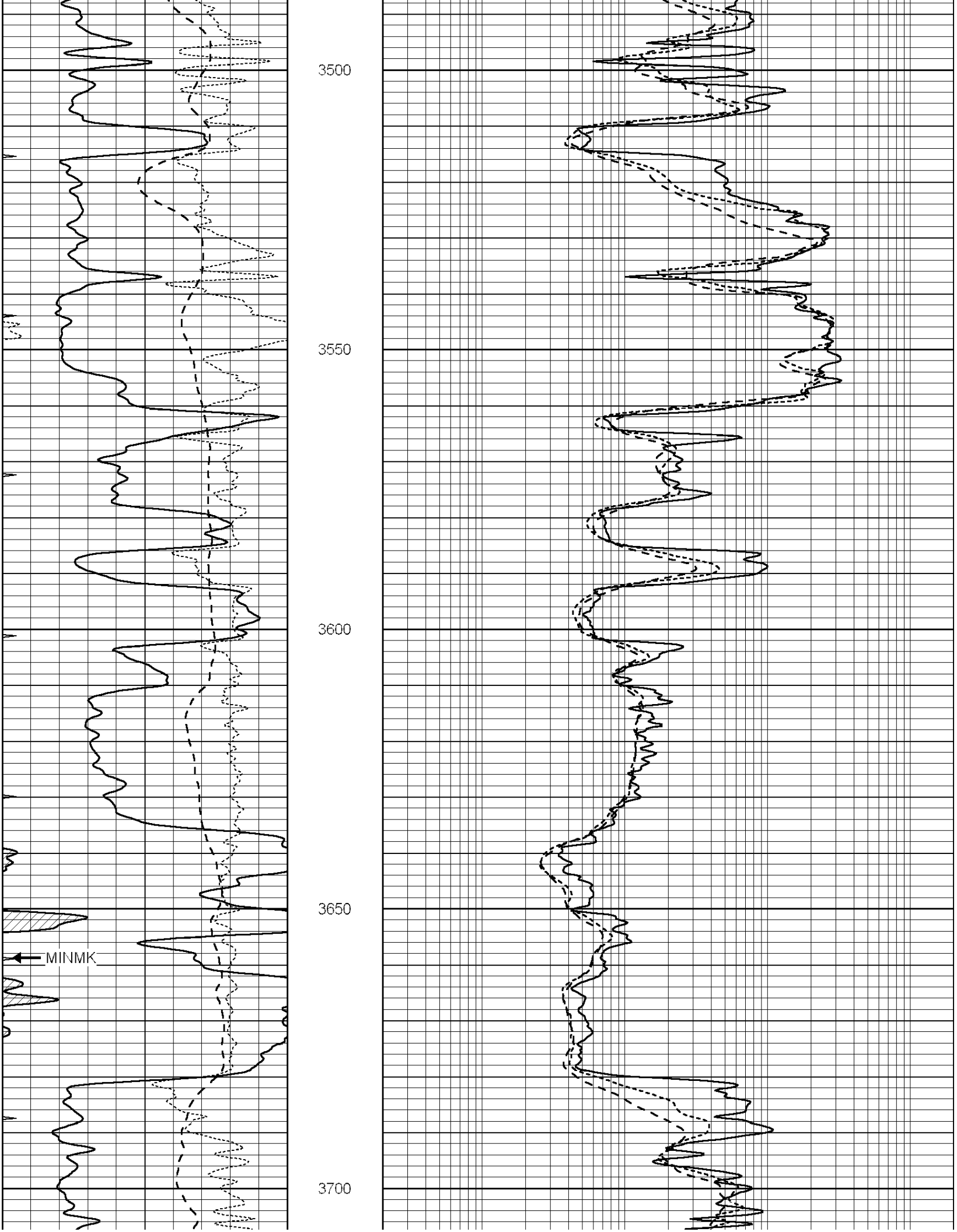

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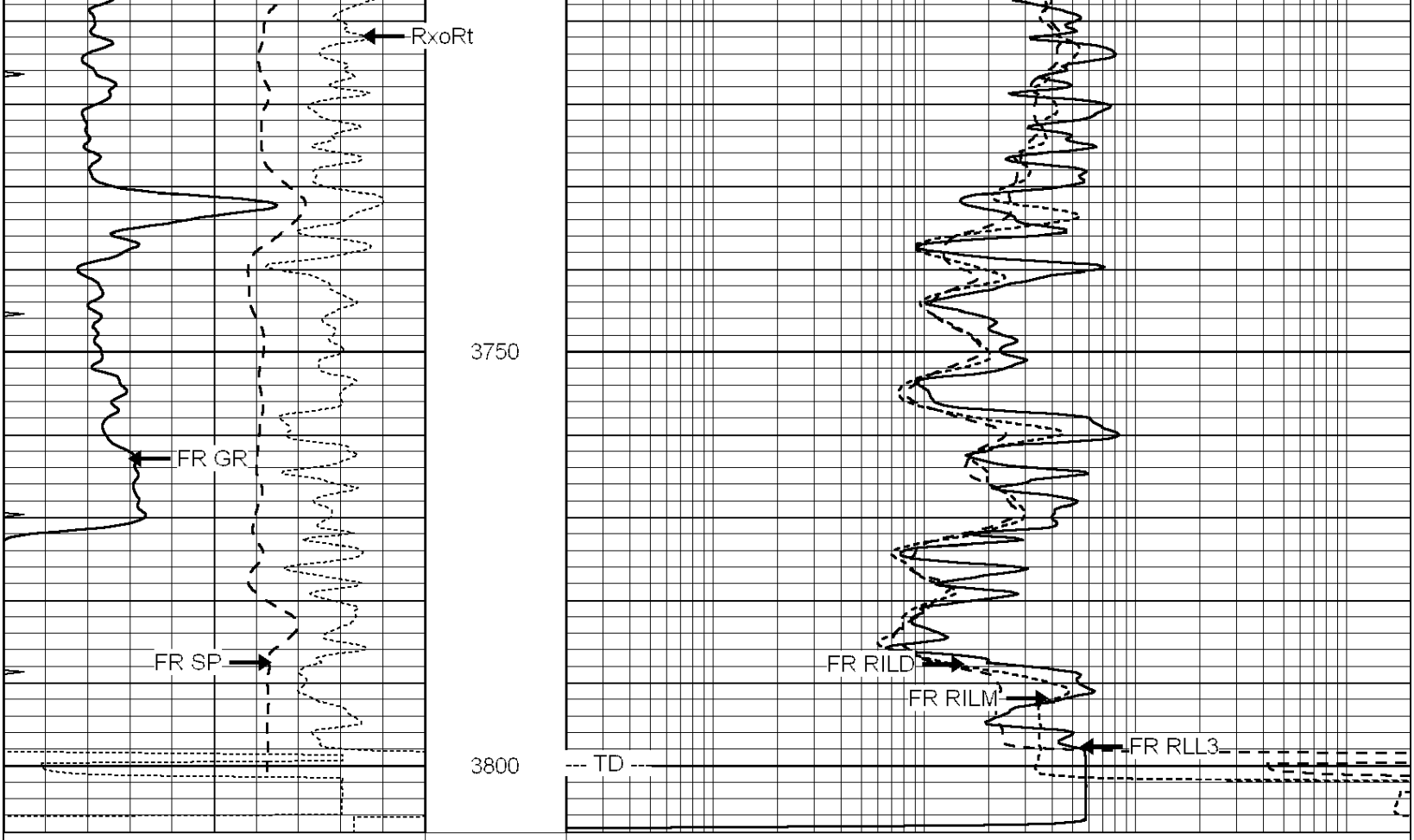

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3500
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3600
3650
MINMK
3700



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

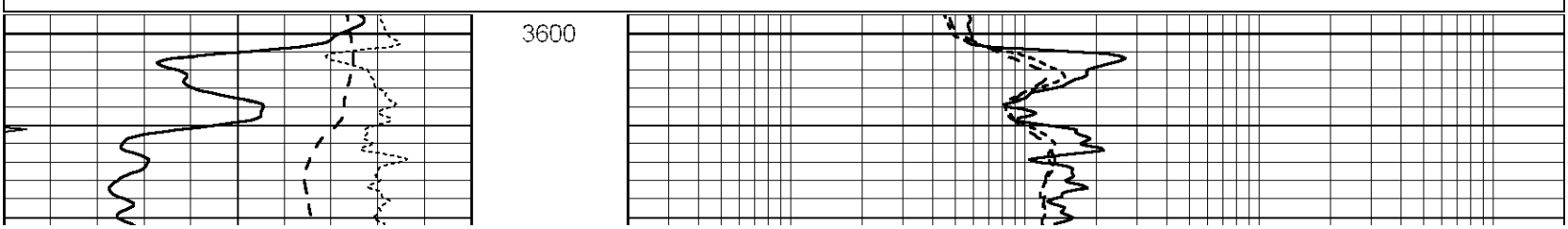
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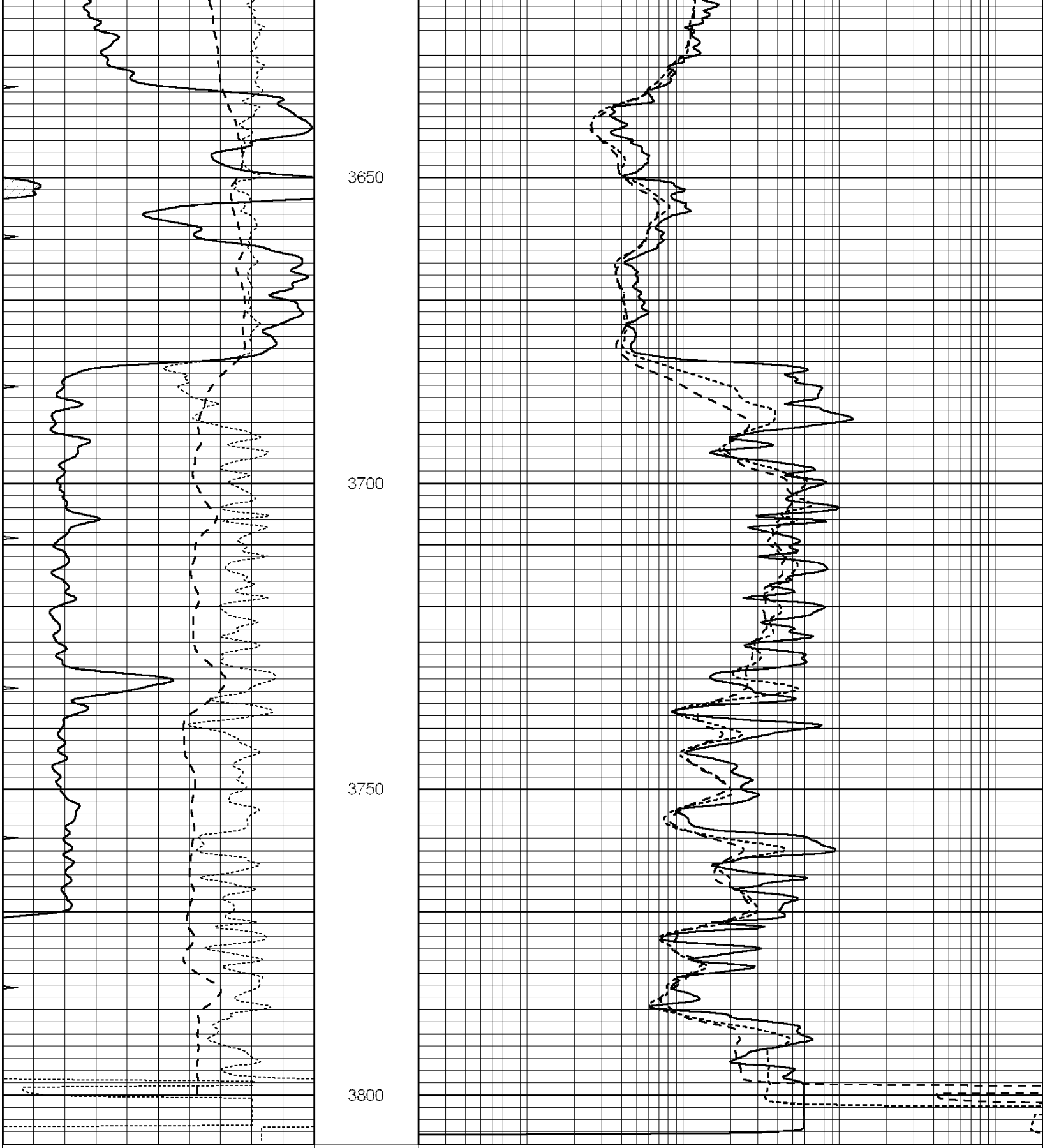
REPEAT SECTION

Database File:	006310ddn.db
Dataset Pathname:	pass2.1A
Presentation Format:	dil
Dataset Creation:	Tue Dec 14 02:47:34 2010
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





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: 006310ddn.db
Dataset Pathname: pass3.2A
Dataset Creation: Tue Dec 14 03:29:50 2010

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Tue Dec 14 02:22:19 2010

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	530.000	-9.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	520.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Tue Dec 14 01:40:57 2010

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.590	g/cc	282.16	435.01	cps

Spine Angle = 76.03 Density/Spine Ratio = 0.576

	Size		Reading	
Small Ring	7.70	in	3.82	V
Large Ring	14.00	in	6.37	V

Compensated Neutron Calibration Report

Serial Number: NEU_1I
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: Tue Dec 14 02:21:22 2010

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps