SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company AMERICAN ENERGIES CORPORATION

Well TIEN #1-10

Field WILDCAT

County NORTON State KANSAS

Location: API # : 15-137-20583

1490' FSL & 330' FEL

SEC 10 TWP 4S RGE 23W

Other Services
CDL/CNL
SONIC/MEL

Elevation
K.B. 2342
D.F.
G.L. 2337

Permanent Datum GROUND LEVEL Elevation 2337
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Company AMERICAN ENERGIES CORP.
Well TIEN #1-10
Field WILDCAT
County NORTON
State KANSAS

Date	9-14-11		
Run Number	ONE		
Depth Driller	3738		
Depth Logger	3738		
Bottom Logged Interval	3736		
Top Log Interval	00		
Casing Driller	303		
Casing Logger	303		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1 / 69		
pH / Fluid Loss	11.5 / 6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10 @ 82F		
Rmf @ Meas. Temp	0.83 @ 82F		
Rmc @ Meas. Temp	1.32 @ 82F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.810 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	9:15 A.M.		
Maximum Recorded Temperature	112F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	DAVE GOLDAK		

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Comments

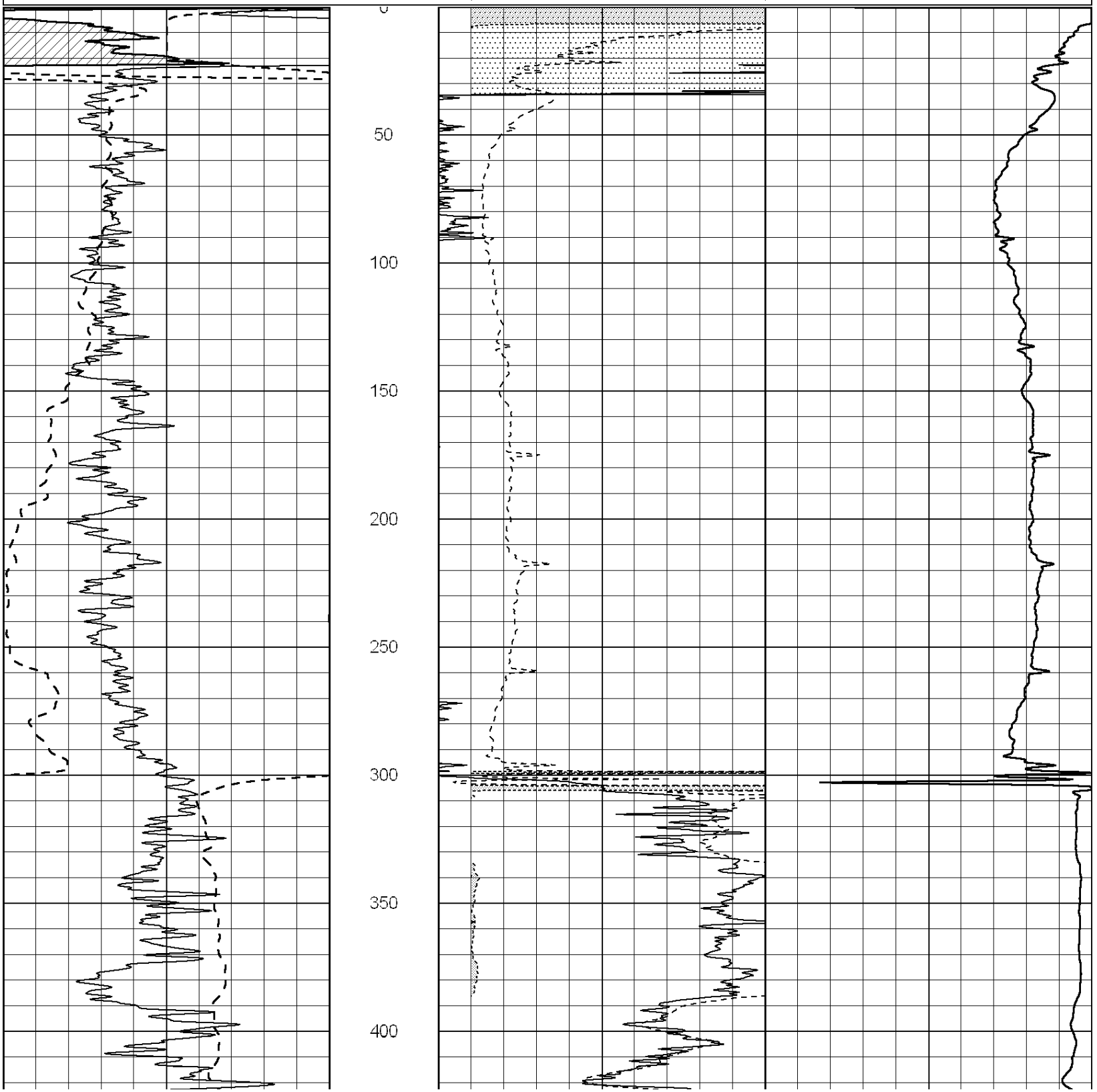
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HILL CITY, N TO HIGHWAY #9 & #283 JCT., 6 1/2N, W INTO,

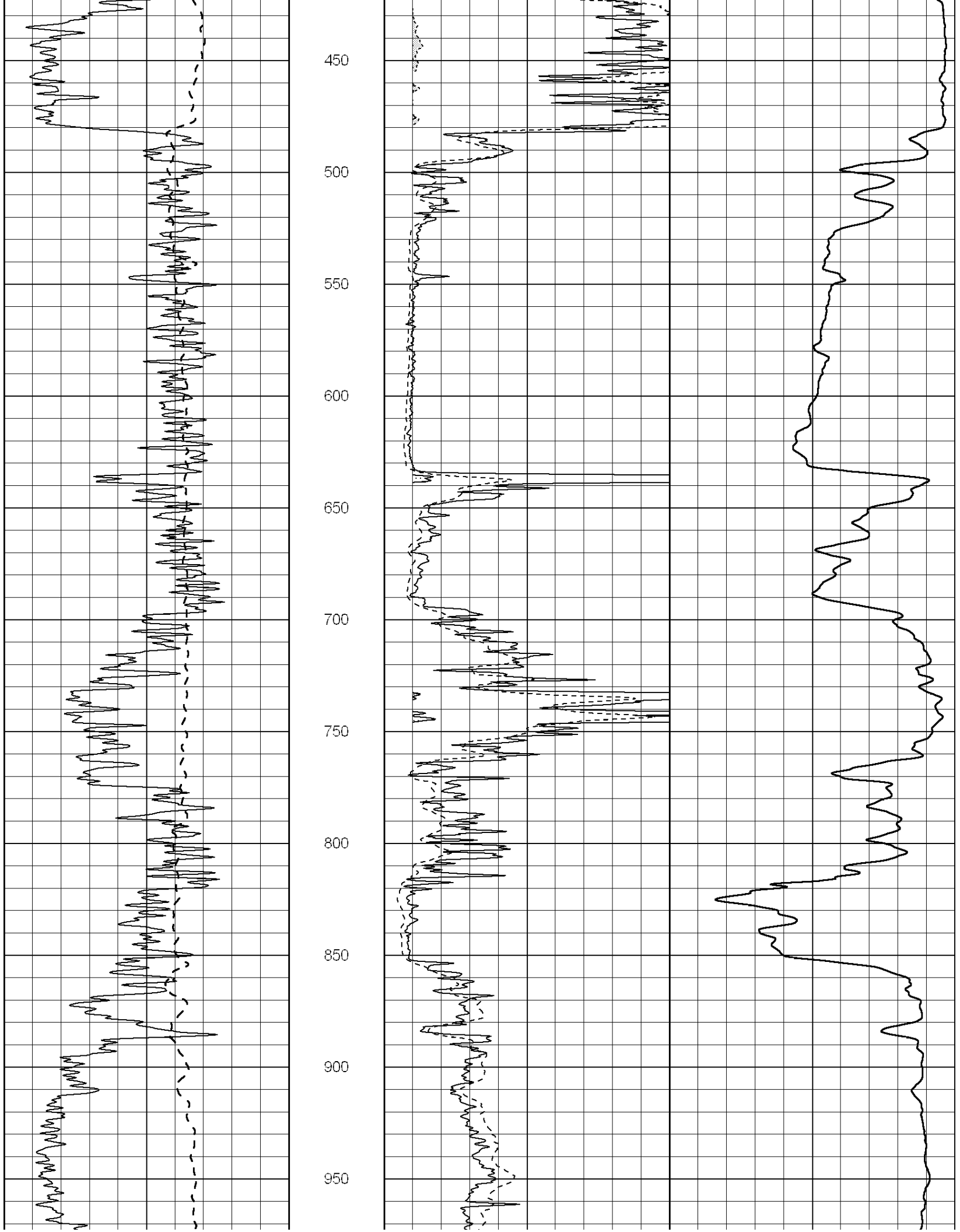
MAIN SECTION

SUPERIOR
Hays,

Kansas

Database File: 007751ddn.db
Dataset Pathname: pass3.1
Presentation Format: dil2
Dataset Creation: Wed Sep 14 10:14:46 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

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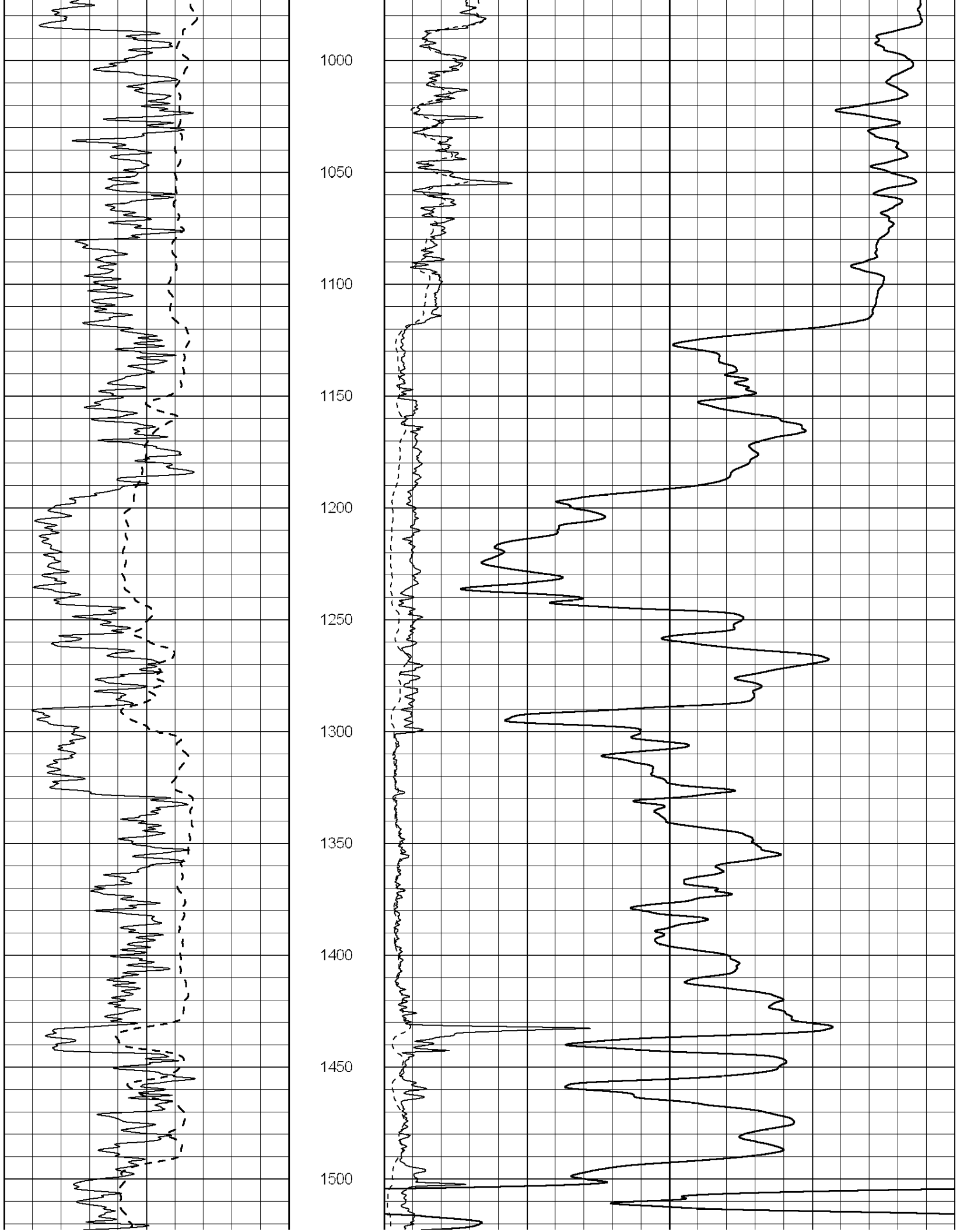
500
550
600
650
700
750
800
850
900
950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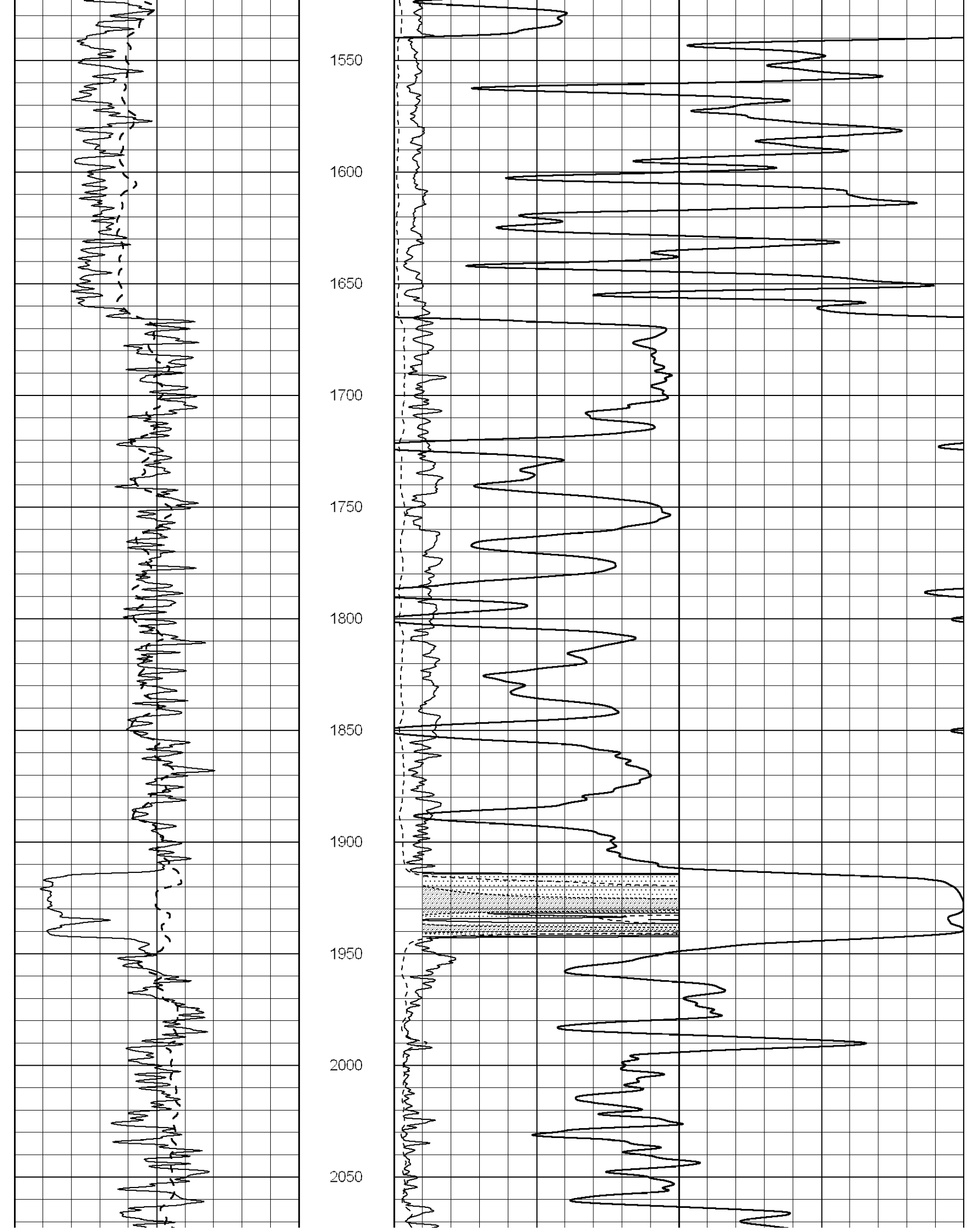
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500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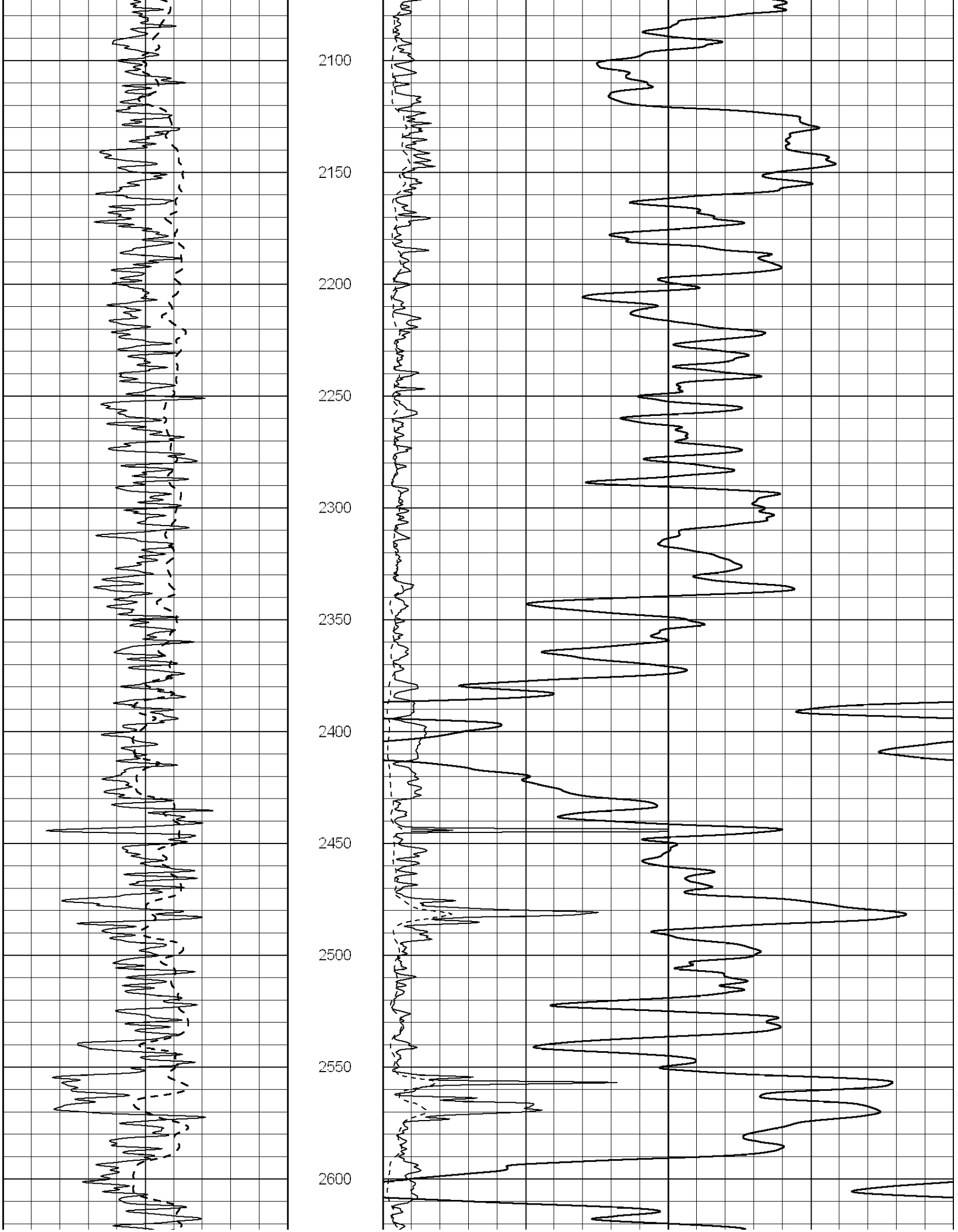
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050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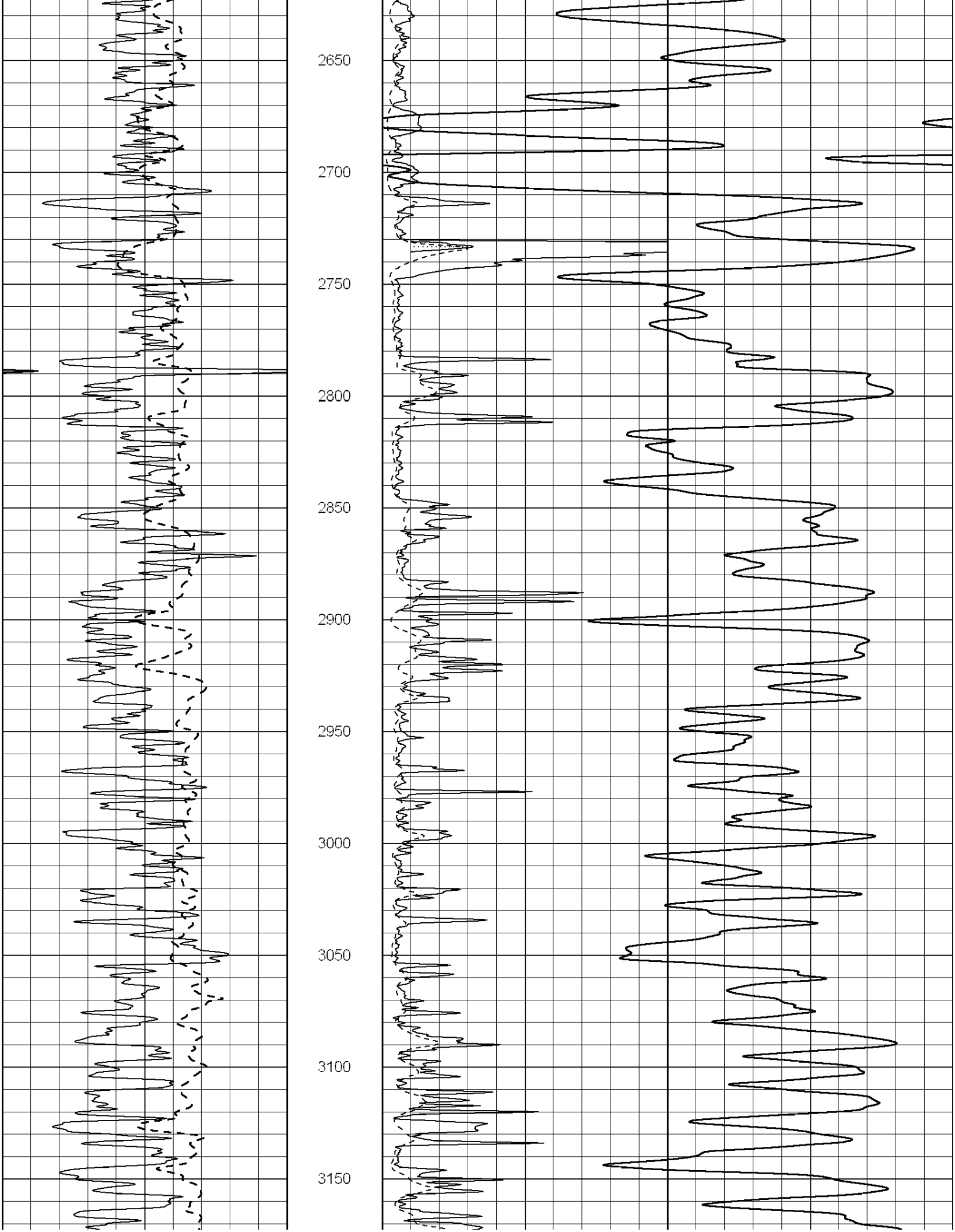
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600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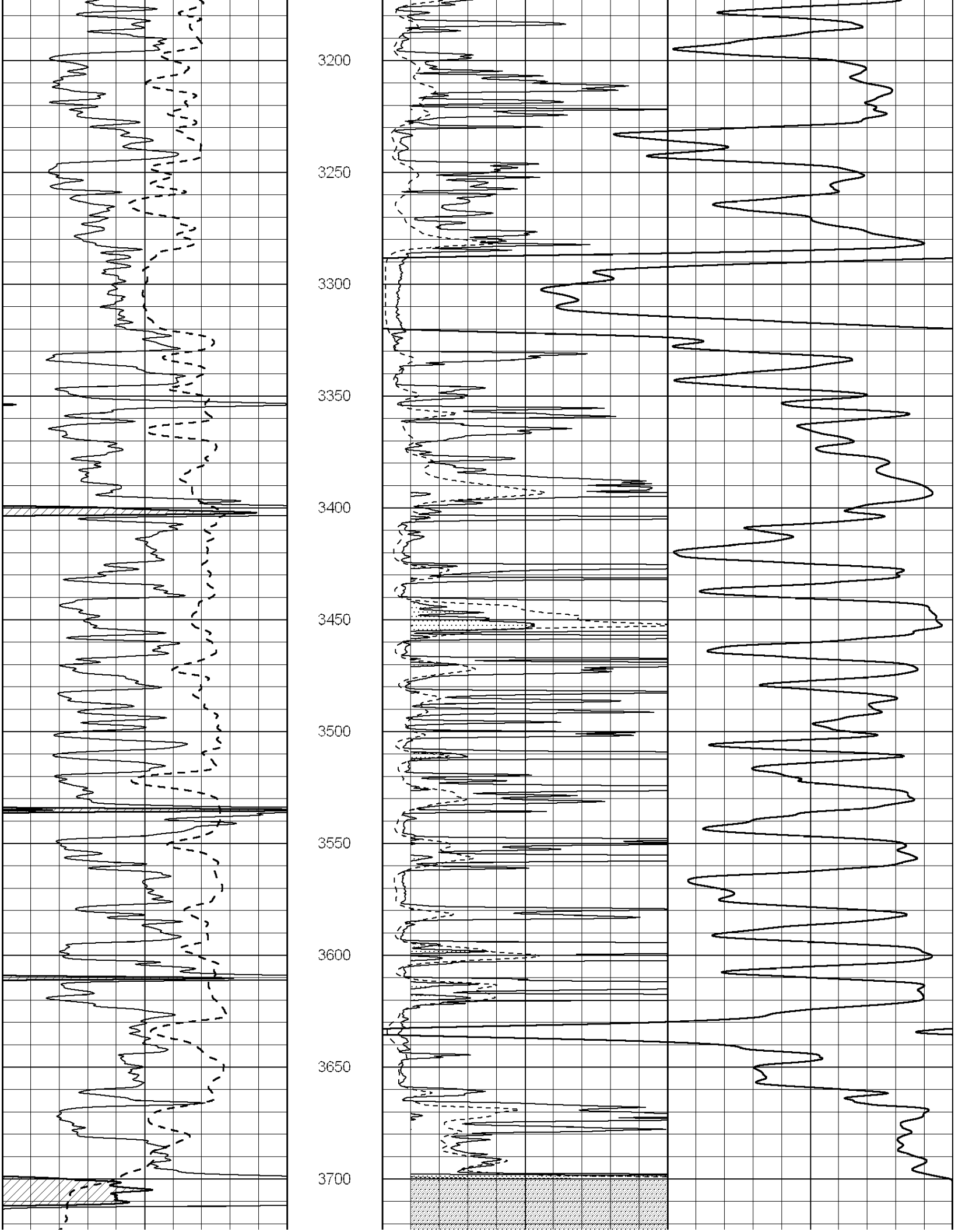
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150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3300
3350
3400
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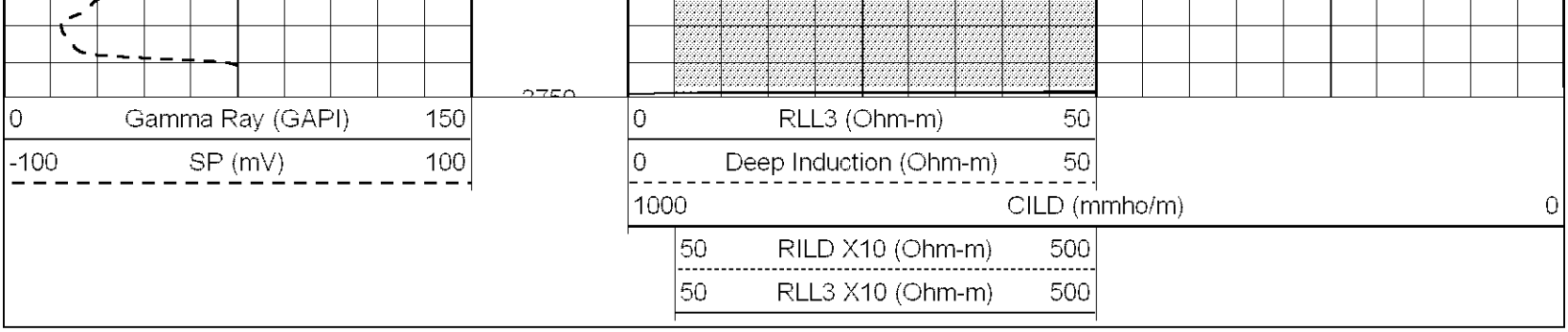
3500
3550
3600
3650
3700



SUPERIOR WELL SERVICES

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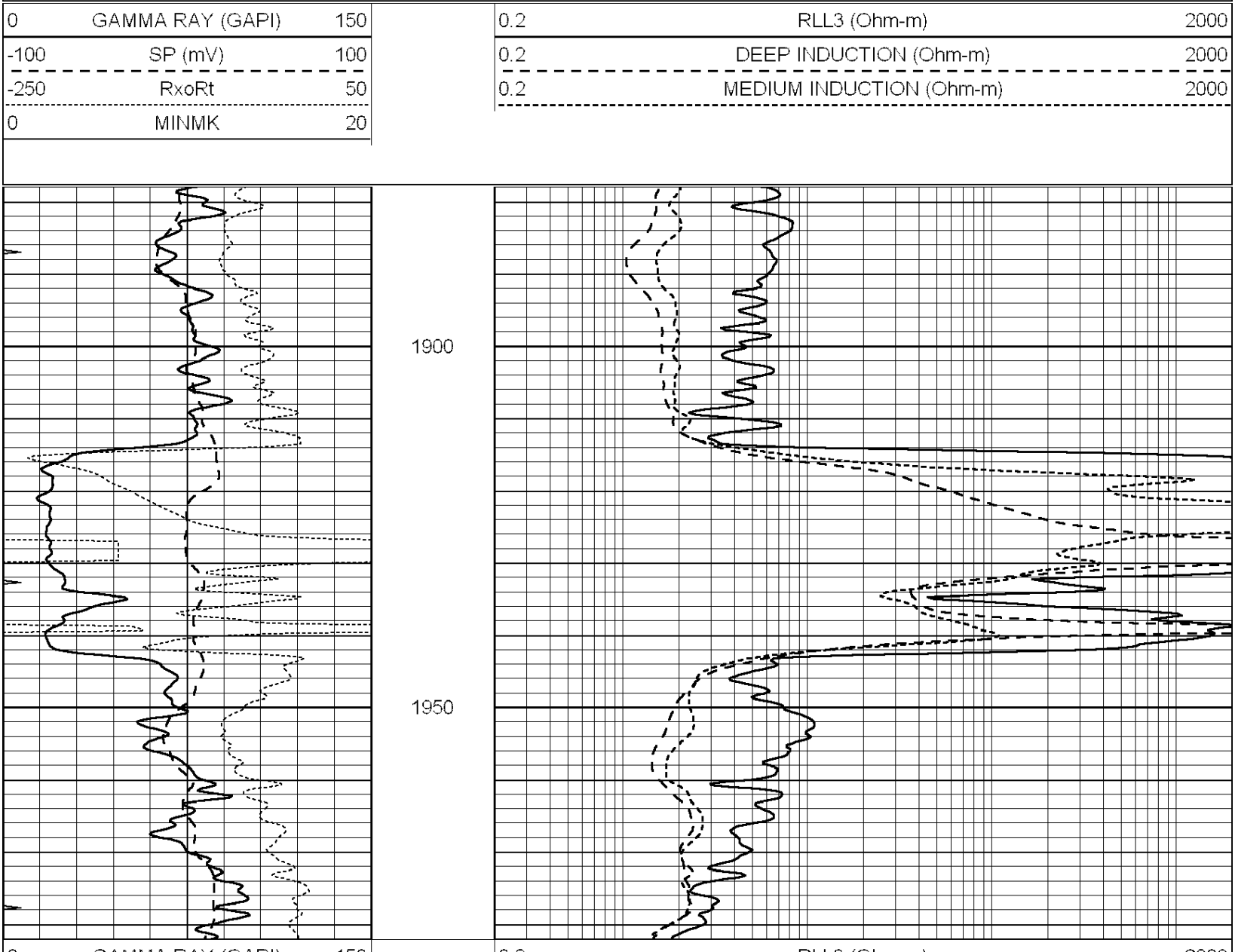
MAIN SECTION

Database File: 007751ddn.db
Dataset Pathname: pass3.1
Presentation Format: dil
Dataset Creation: Wed Sep 14 10:14:46 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240



-250	RxoRt	50
0	MINMK	20

0.2	MEDIUM INDUCTION (Ohm-m)	2000

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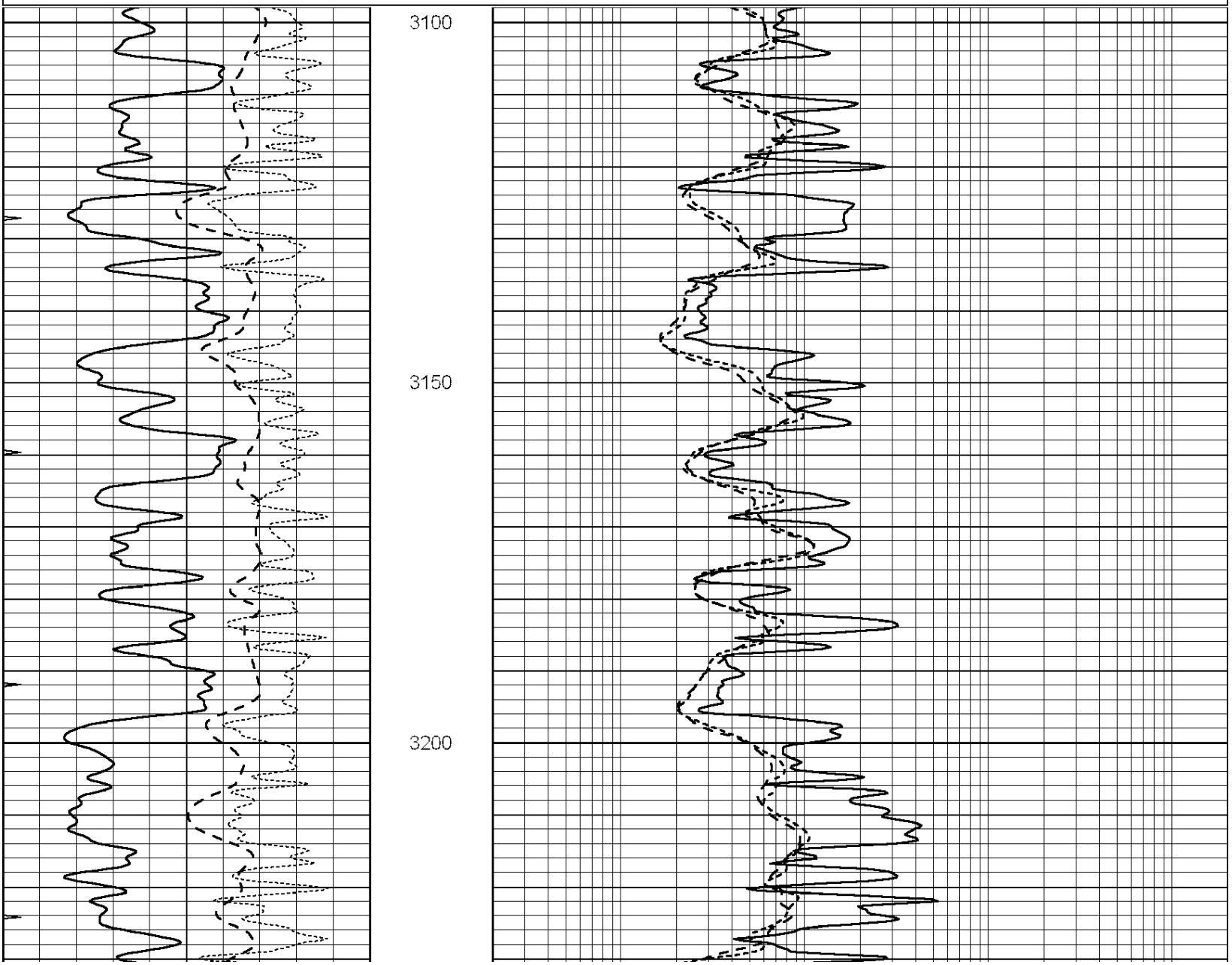
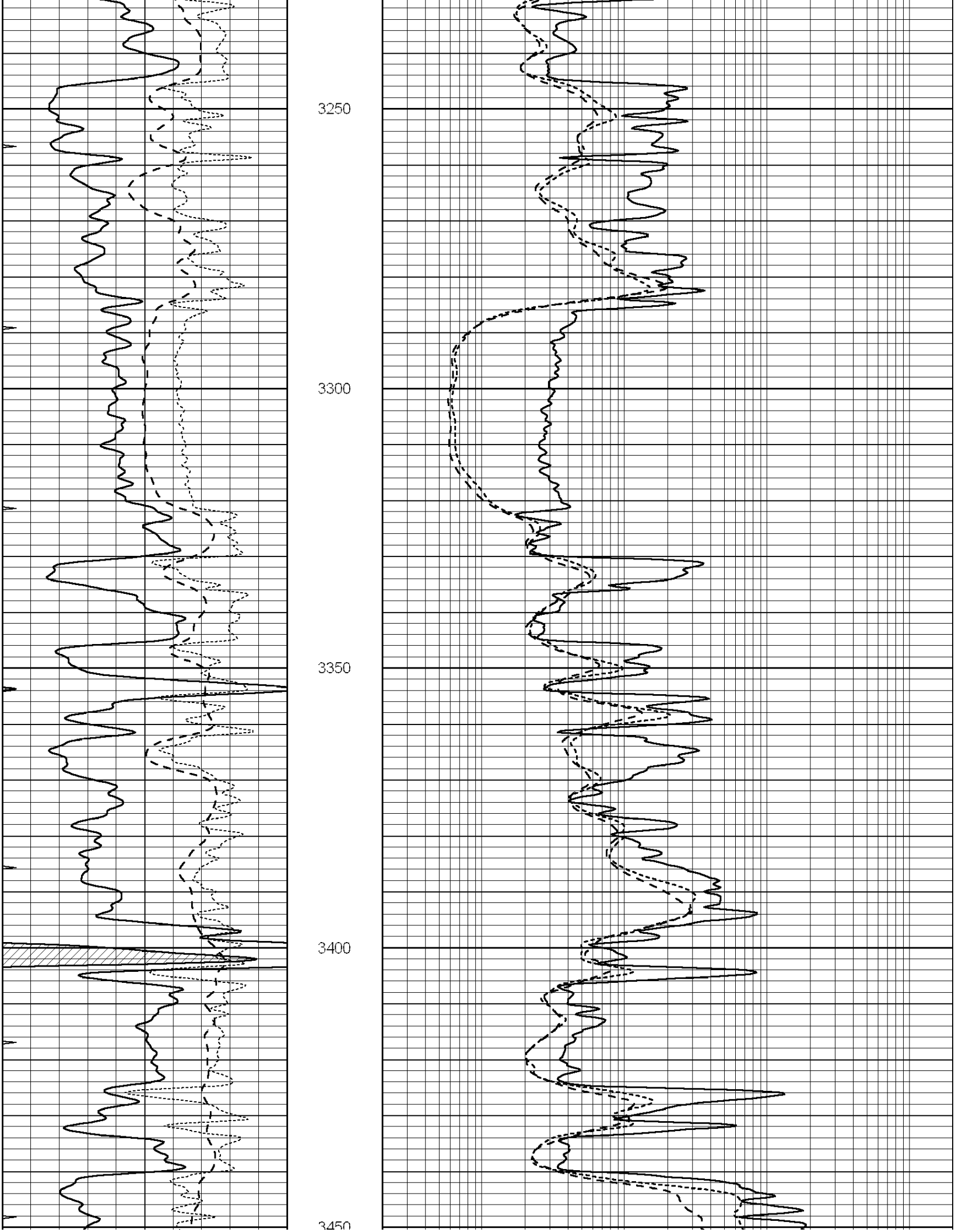
Dataset Creation:	Wed Sep 14 10:14:46 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

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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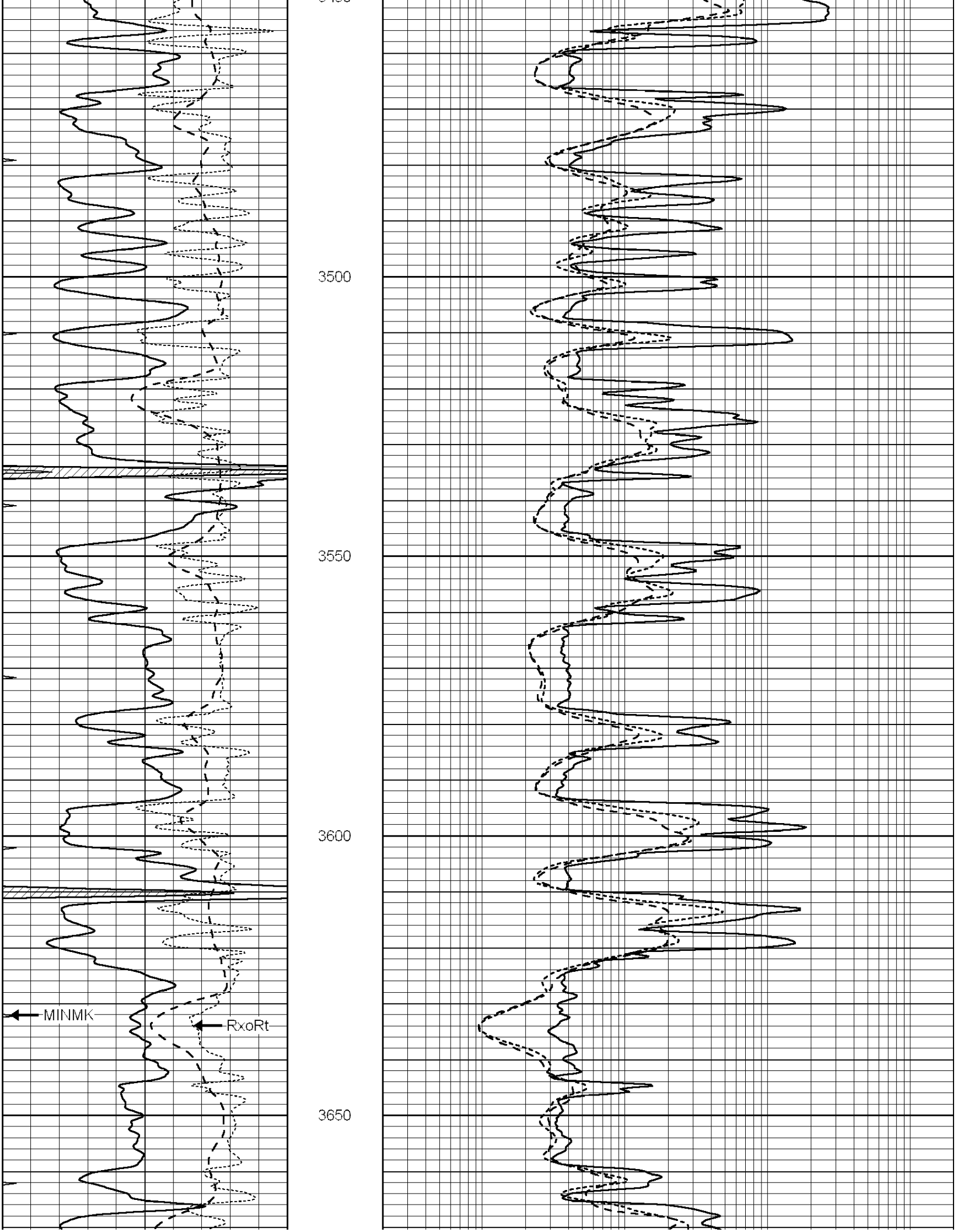
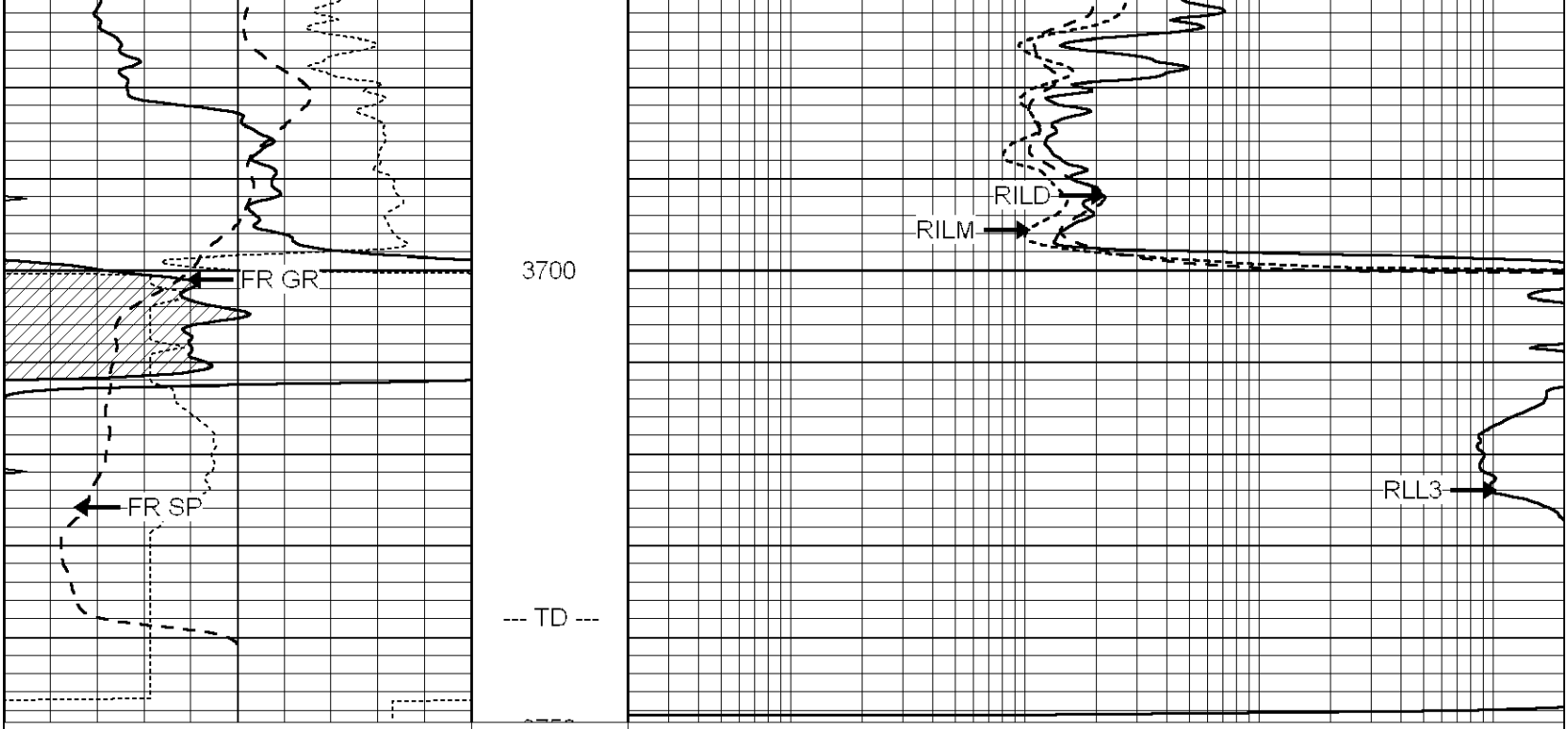
3300
3350
3400
3450


3500
3550
3600
MINMK
RxoRt
3650



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

SUPERIOR WELL SERVICES

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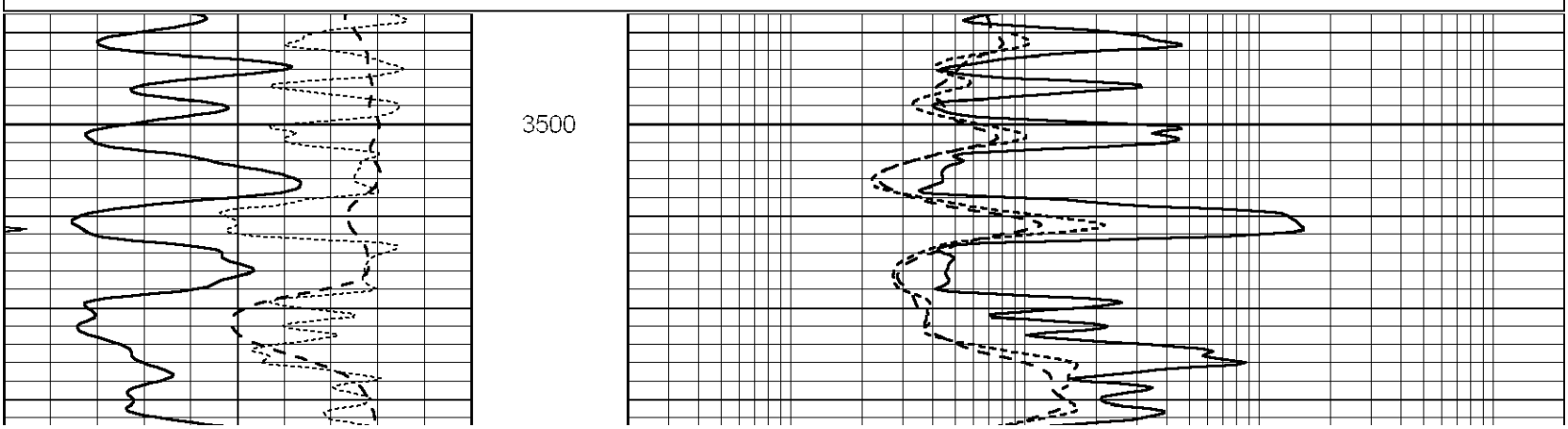
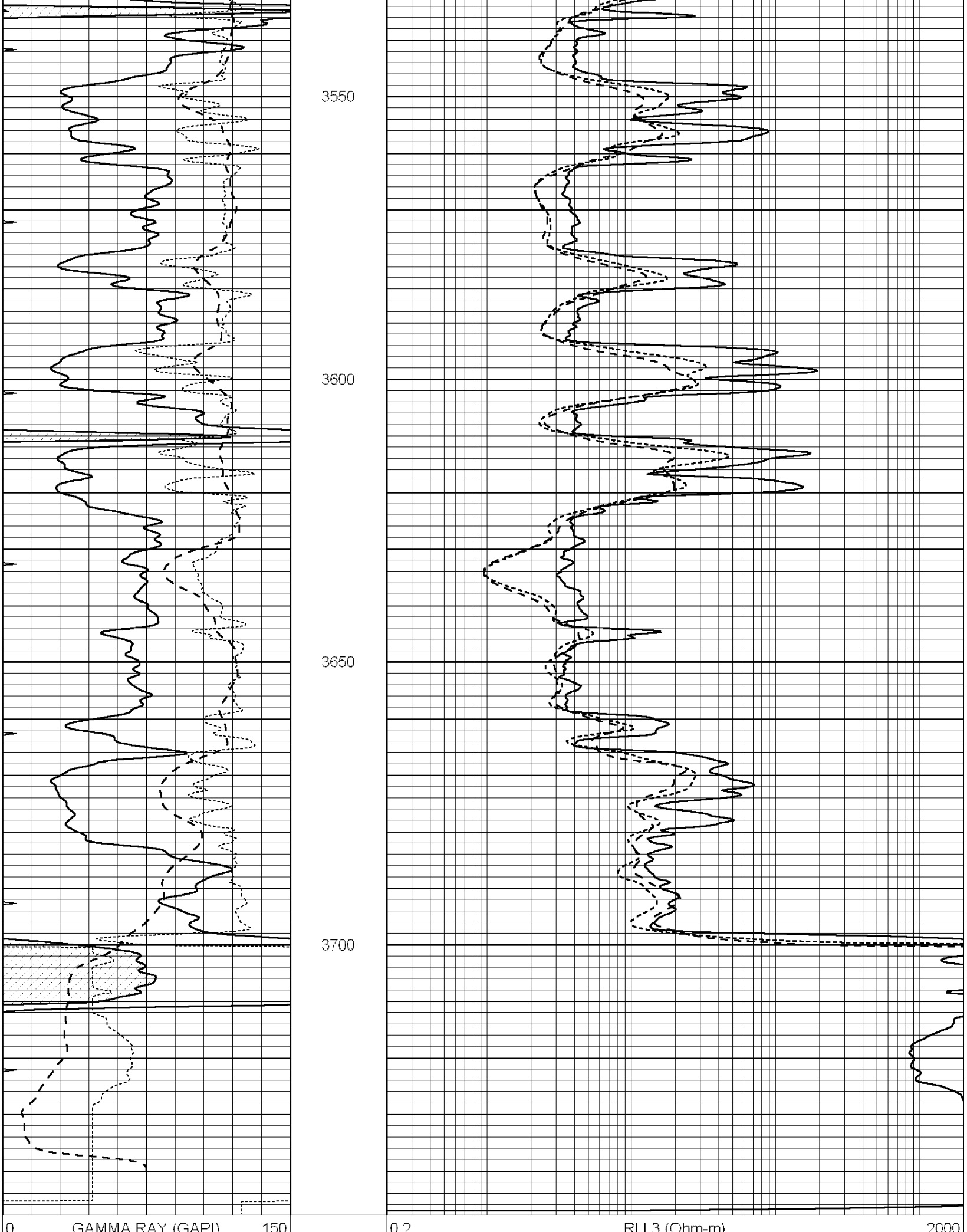
REPEAT SECTION

Database File:	007751ddn.db
Dataset Pathname:	pass2.1
Presentation Format:	dil
Dataset Creation:	Wed Sep 14 09:17:24 2011 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




3550
3600
3650
3700
0
GAMMA RAY (GAPI)
150
0.2
RLL3 (Ohm-m)
2000

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

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

Calibration Report

Database File: 007751ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Wed Sep 14 10:14:46 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Wed Sep 14 08:54:07 2011

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	540.000	-18.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	560.000	-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: Wed Sep 14 09:15:39 2011

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	9.00	in	3.44	V
Large Ring	14.00	in	5.20	V

Compensated Neutron Calibration Report

Serial Number: NUE_2I
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 14 09:21:01 2011

Calibrator Value: 1.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps