SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company SHELBY, LLC.
Well #1-3 WFYOG
Field EVERS
County PAWNEE State KANSAS

Location: API # : 15-145-21683-0000
330' FNL & 1602' FEL

SEC 3 TWP 22S RGE 16W

Other Services
CDL/CNL
MEL/SON

Elevation

Permanent Datum GROUND LEVEL Elevation 1986
Log Measured From KELLY BUSHING 9.5' A.G.L.
Drilling Measured From KELLY BUSHING

K.B. 1995.5
D.F. 1993.5
G.L. 1986

Company SHELBY, LLC.
Well #1-3 WFYOG
Field EVERS
County PAWNEE
State KANSAS

Date	9/8/12		
Run Number	ONE		
Depth Driller	3950		
Depth Logger	3949		
Bottom Logged Interval	3947		
Top Log Interval	00		
Casing Driller	8 5/8" @ 1002		
Casing Logger	1006		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5600 PPM	
Density / Viscosity	9.0/54		
pH / Fluid Loss	9.5/7.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.60 @ 88F		
Rmf @ Meas. Temp	.45 @ 88F		
Rmc @ Meas. Temp	.72 @ 88F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.45 @ 115F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	115F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	CHARLIE STURDAVANT		

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Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395

DIRECTIONS

LARNED, KS. - S. ON MAIN STREET - 2 BLOCKS PAST RR TRACKS
2 E. ON 1ST ST. - S. & E. INTO

MAIN SECTION

SUPERIOR
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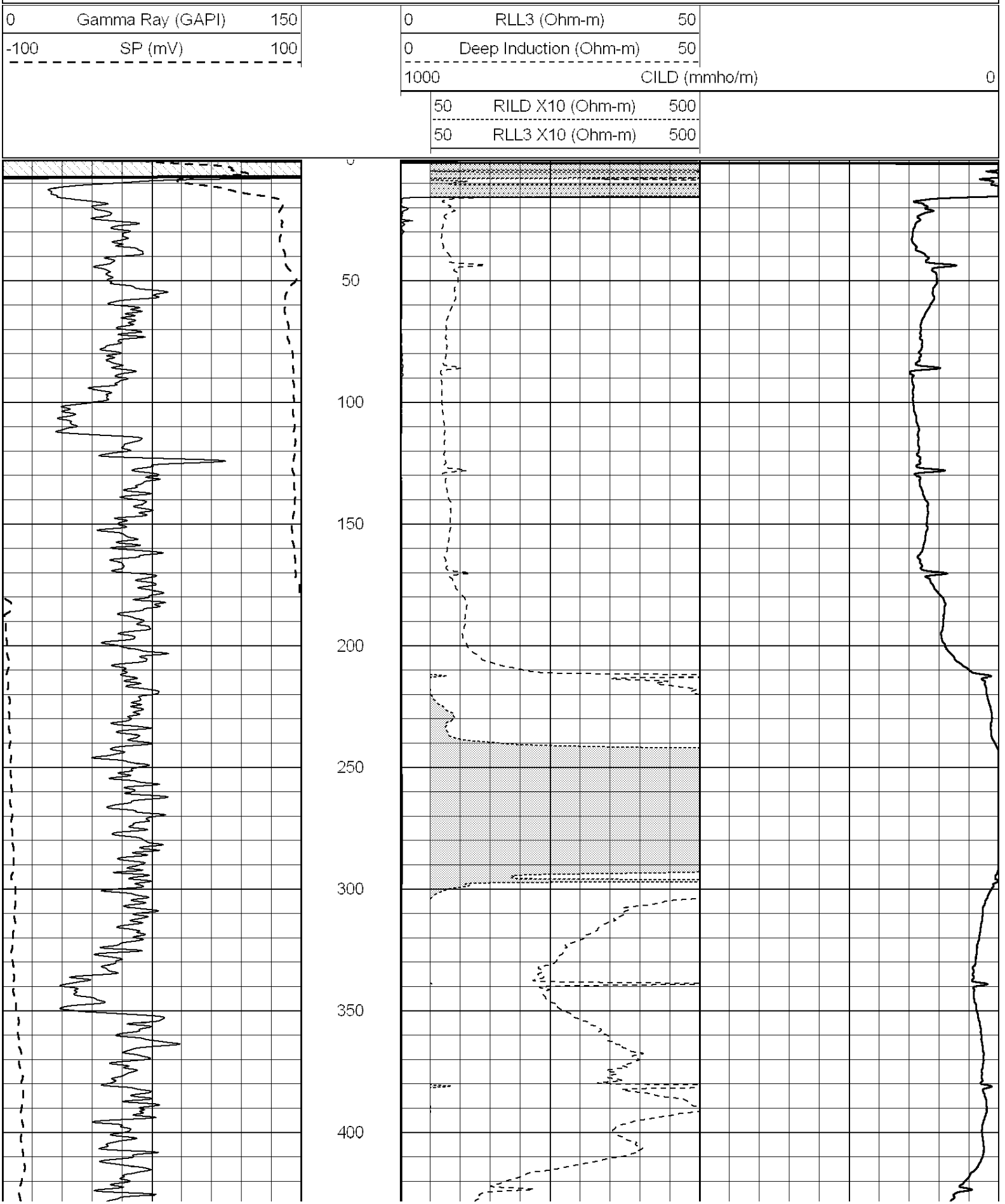
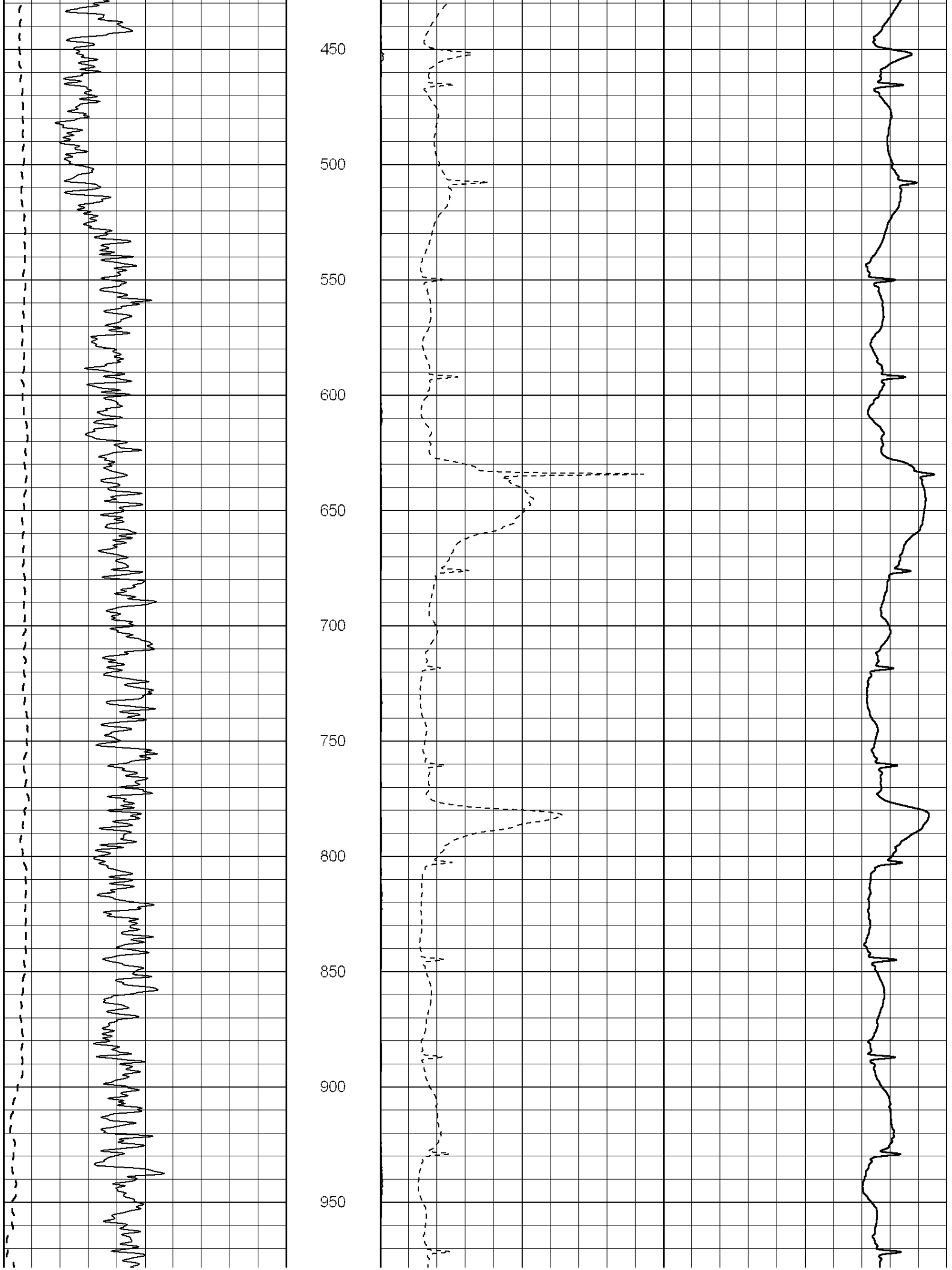
Database File:	009600ddn.db
Dataset Pathname:	pass3.2
Presentation Format:	_dil2
Dataset Creation:	Sat Sep 08 11:06:06 2012 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:600

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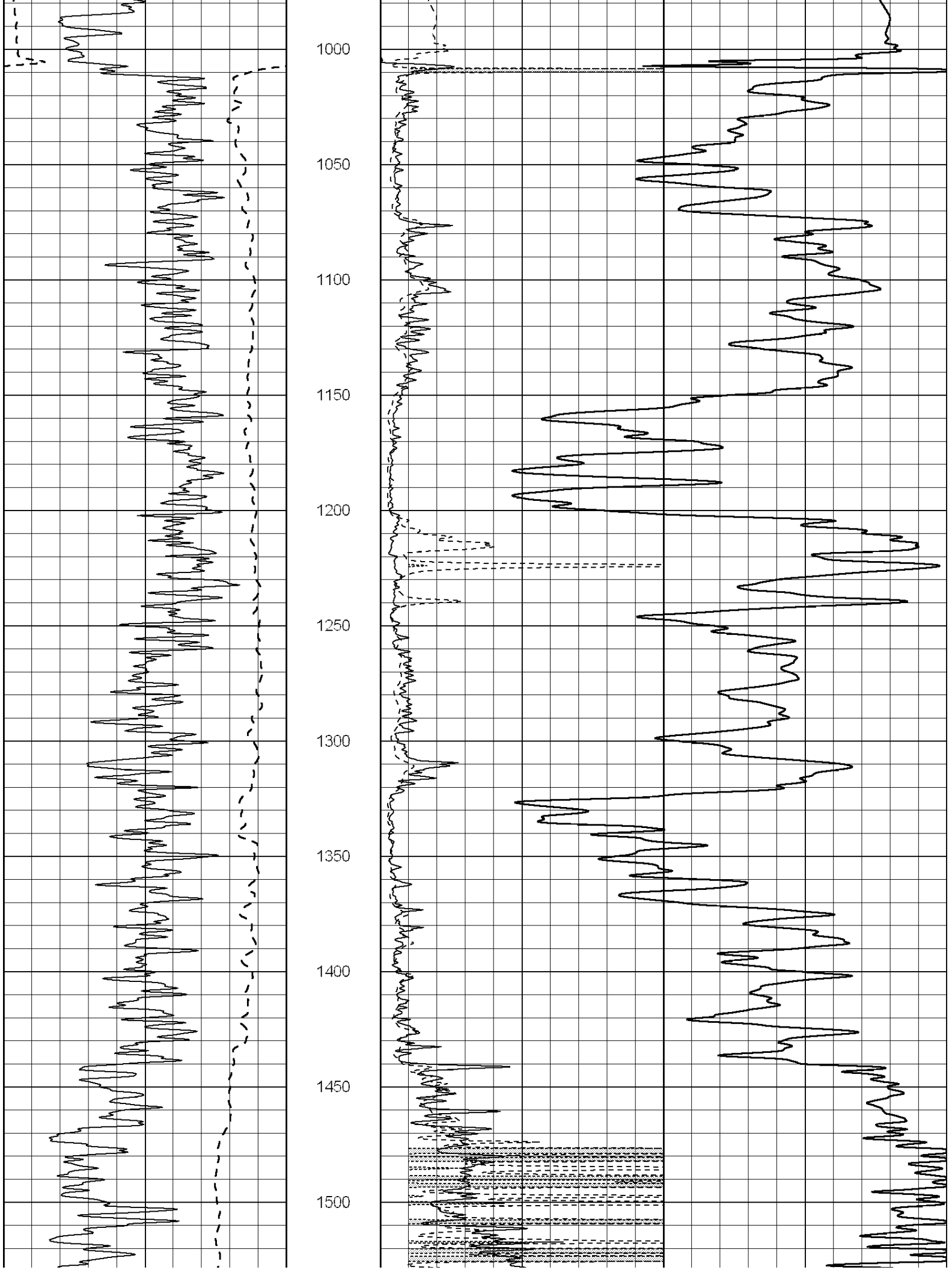
500
550
600
650
700
750
800
850
900
950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1050
1100
1150
1200
1250
1300
1350
1400
1450
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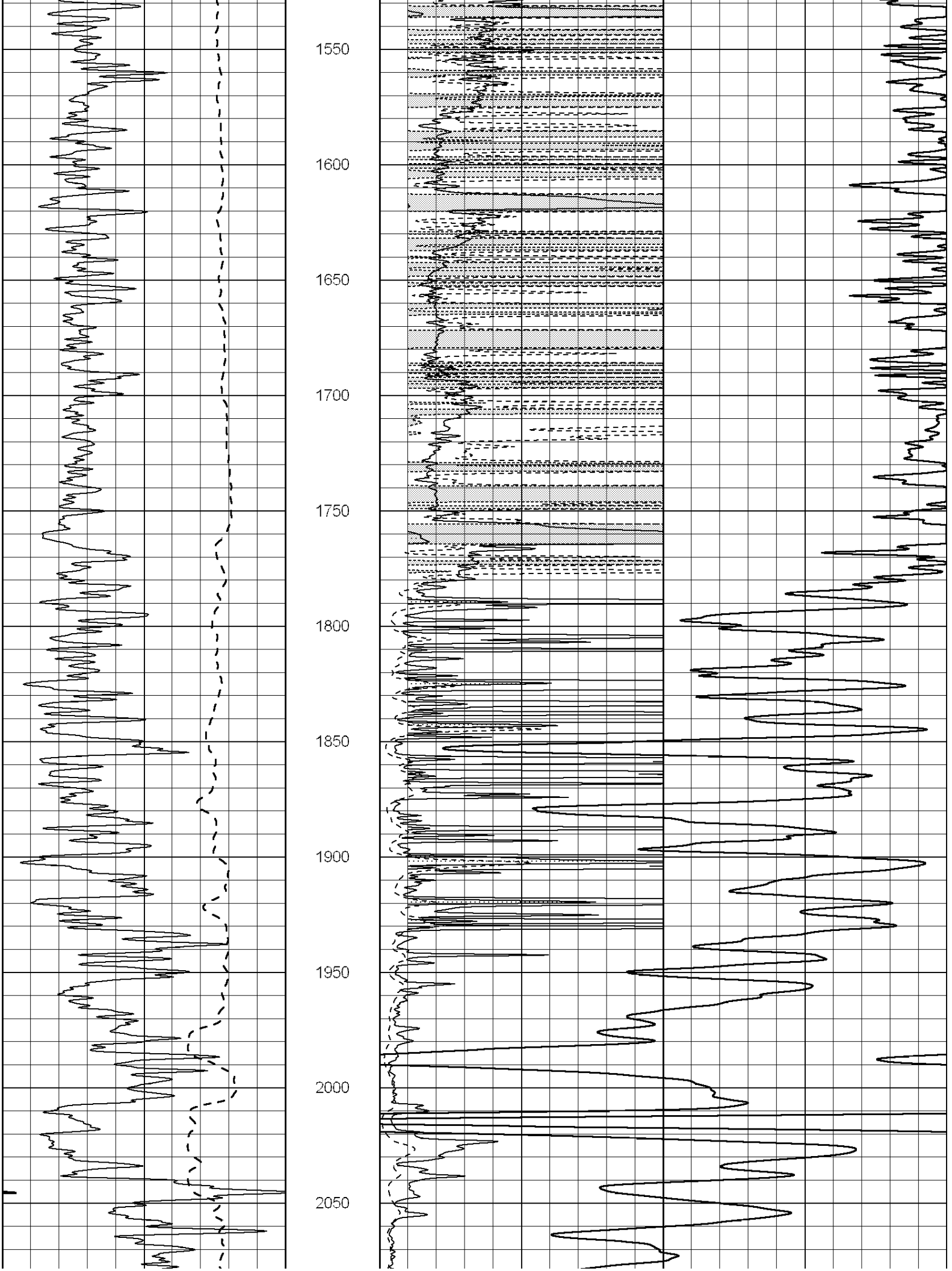
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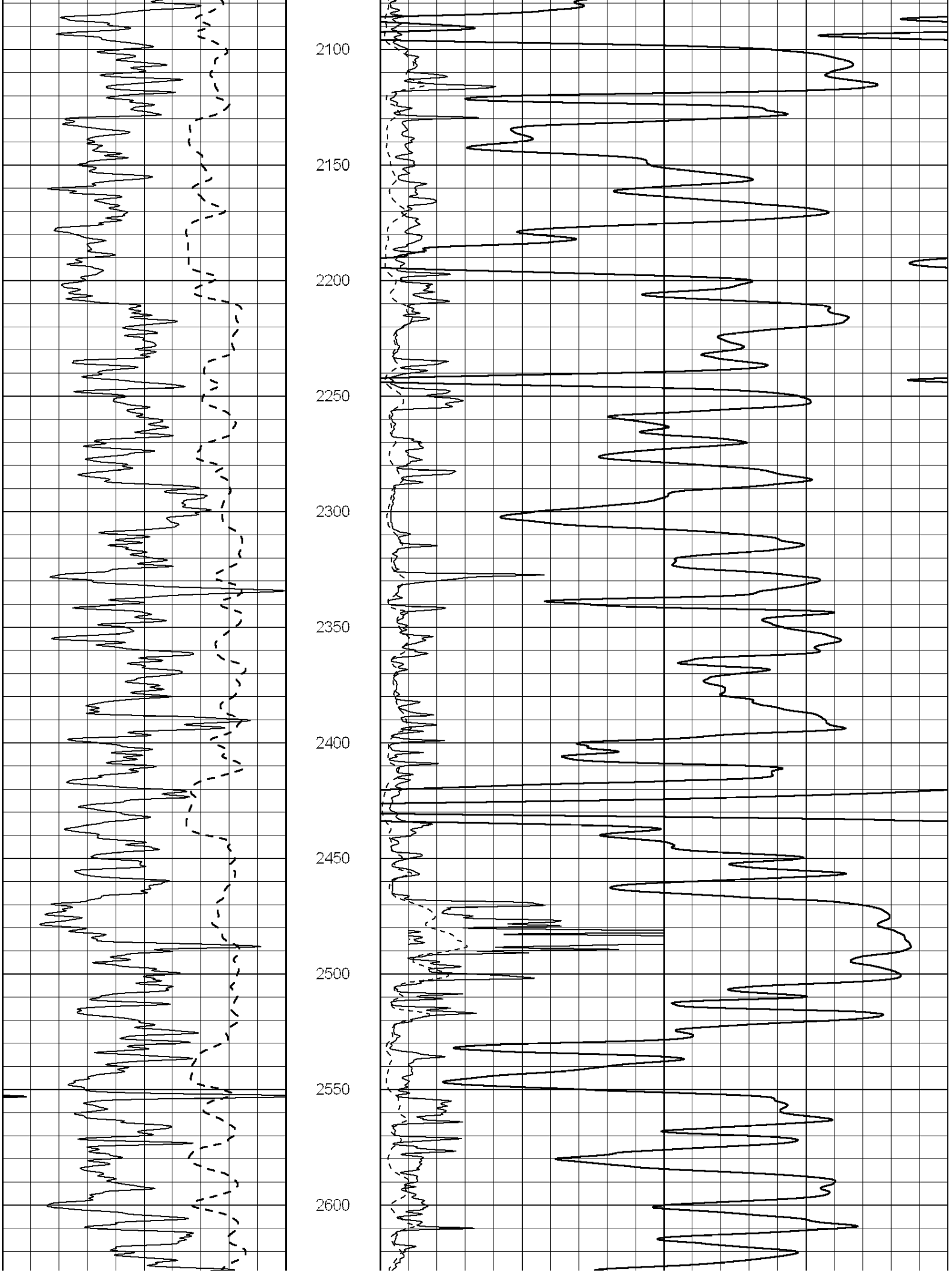
1650
1700
1750
1800
1850
1900
1950
2000
2050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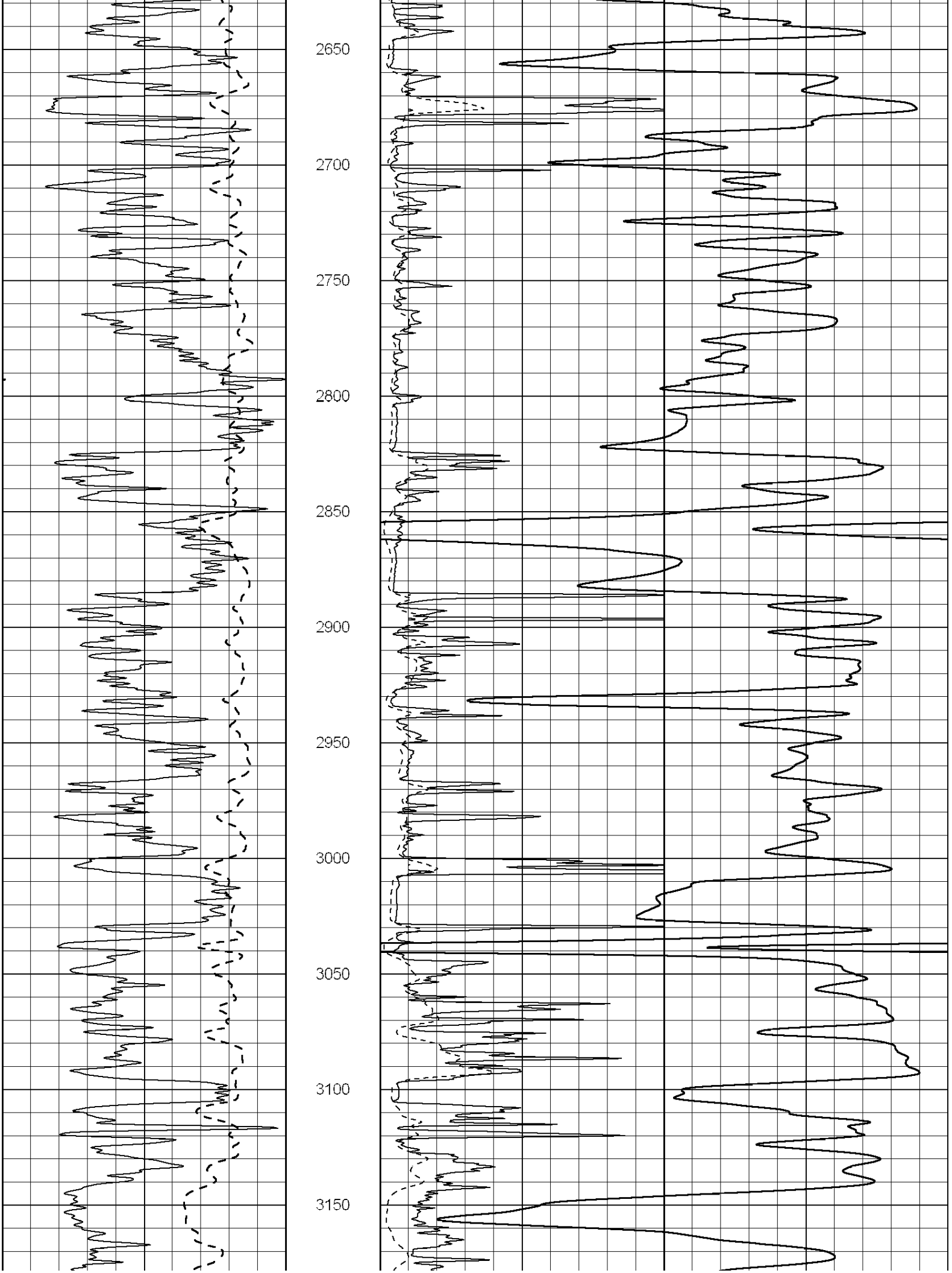
2200
2250
2300
2350
2400
2450
2500
2550
2600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2700
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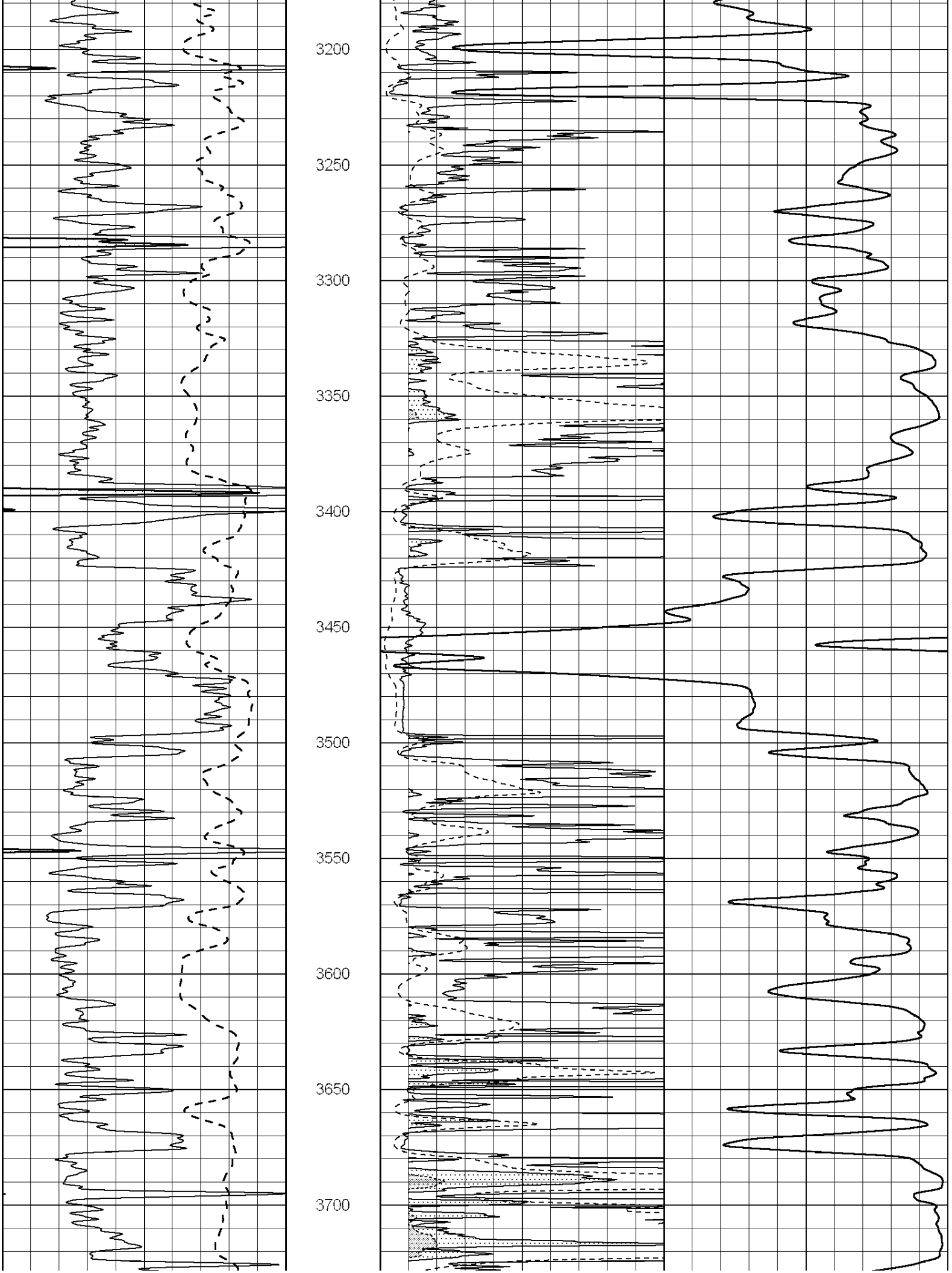
2850
2900
2950
3000
3050
3100
3150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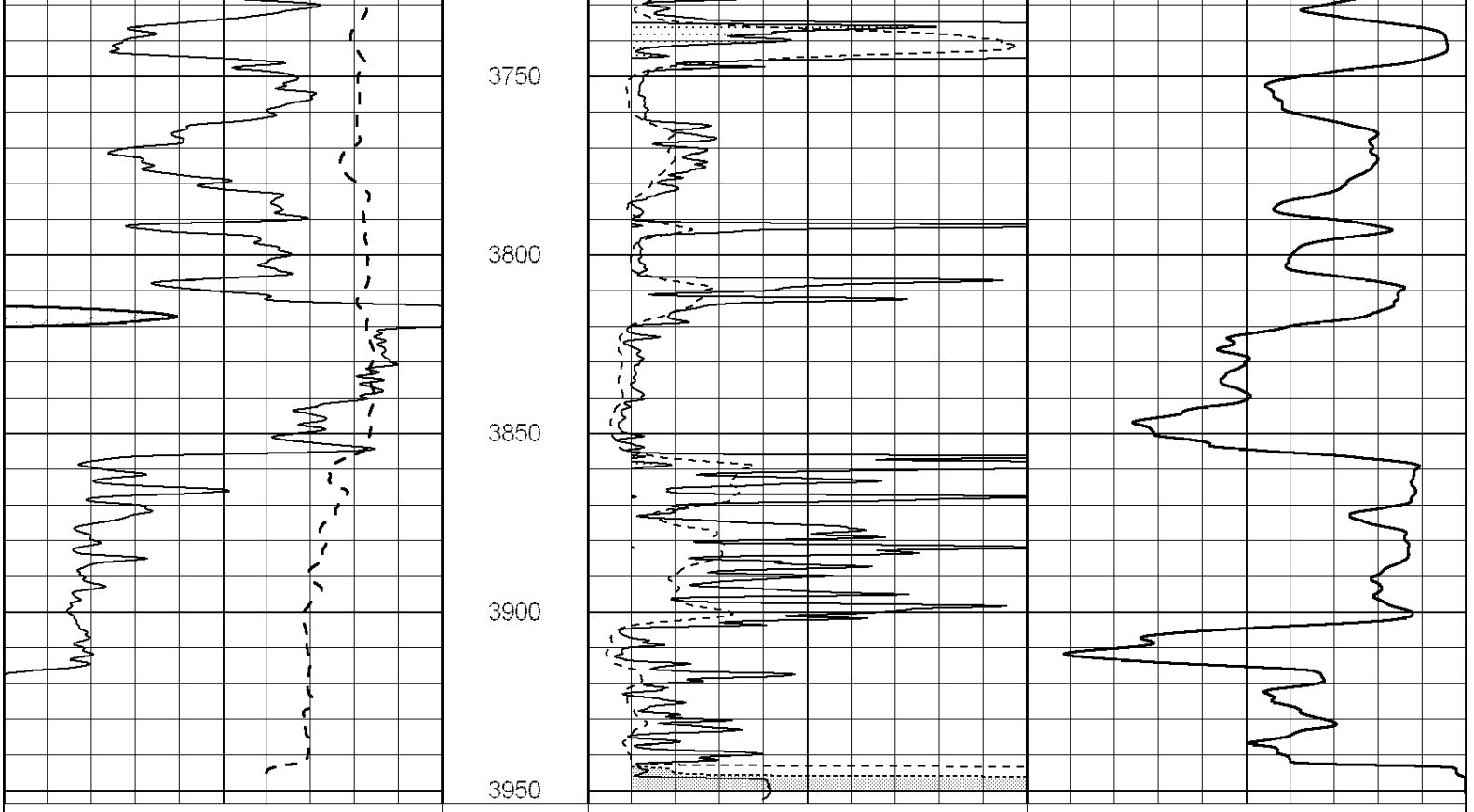
3300
3350
3400
3450
3500
3550
3600
3650
3700



SUPERIOR WELL SERVICES

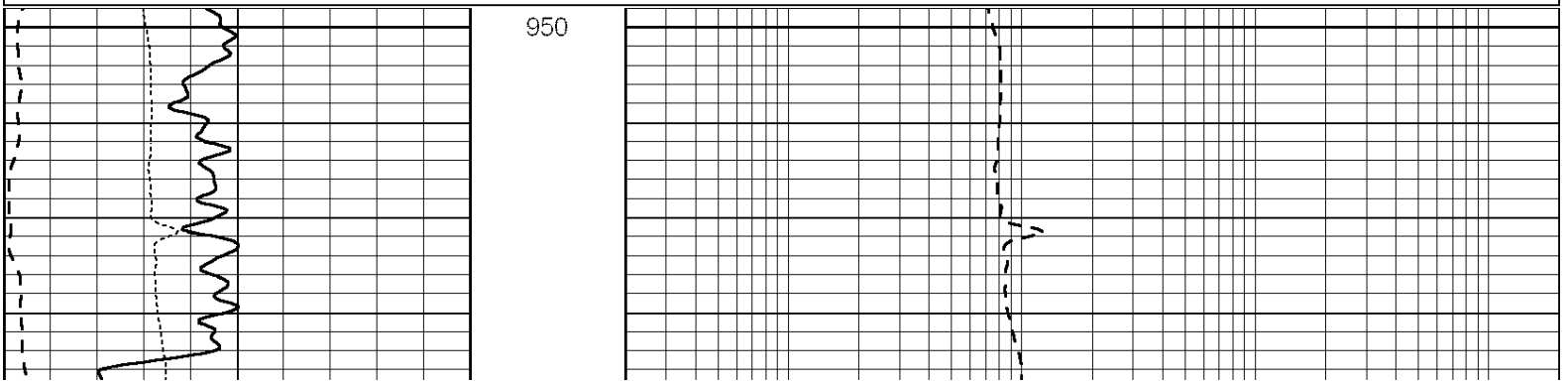
SUPERIOR
Hays,
Kansas

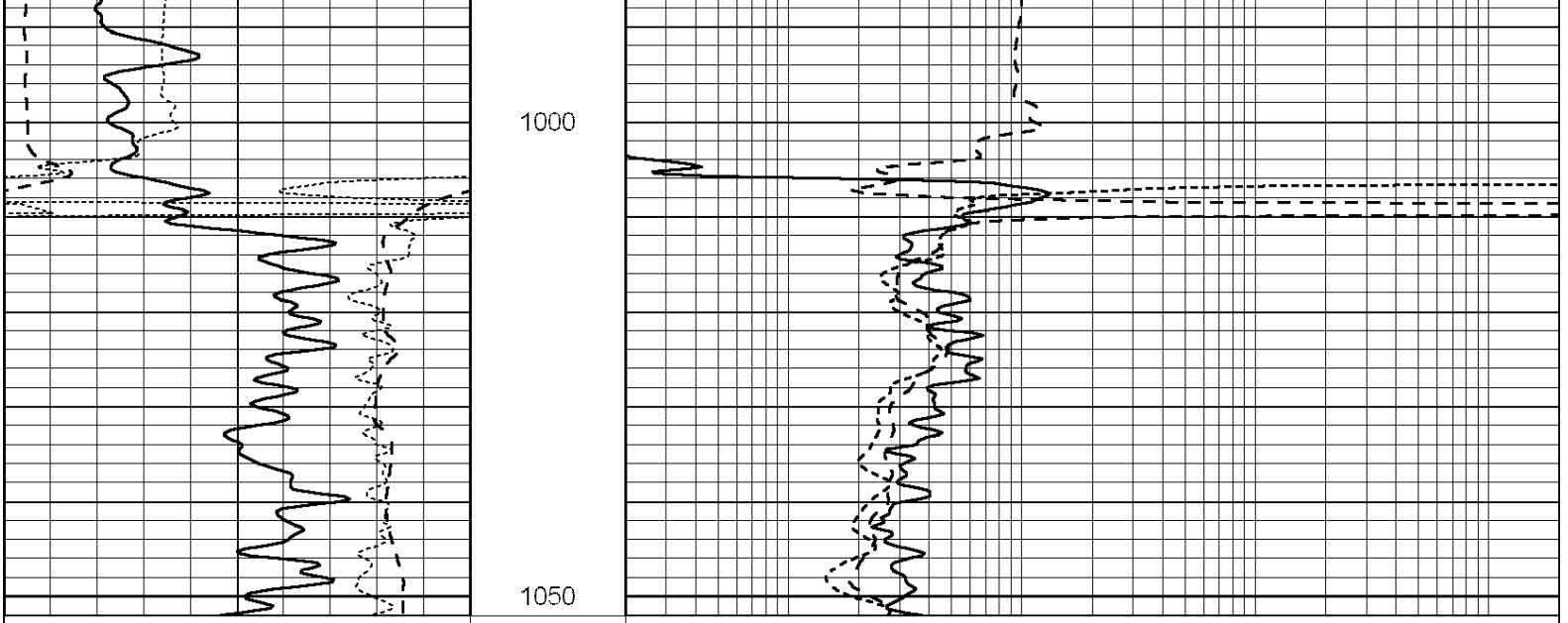
ANHYDRITE

Database File:	009600ddn.db
Dataset Pathname:	pass3.3
Presentation Format:	_dil
Dataset Creation:	Sat Sep 08 10:39:08 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





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

SUPERIOR
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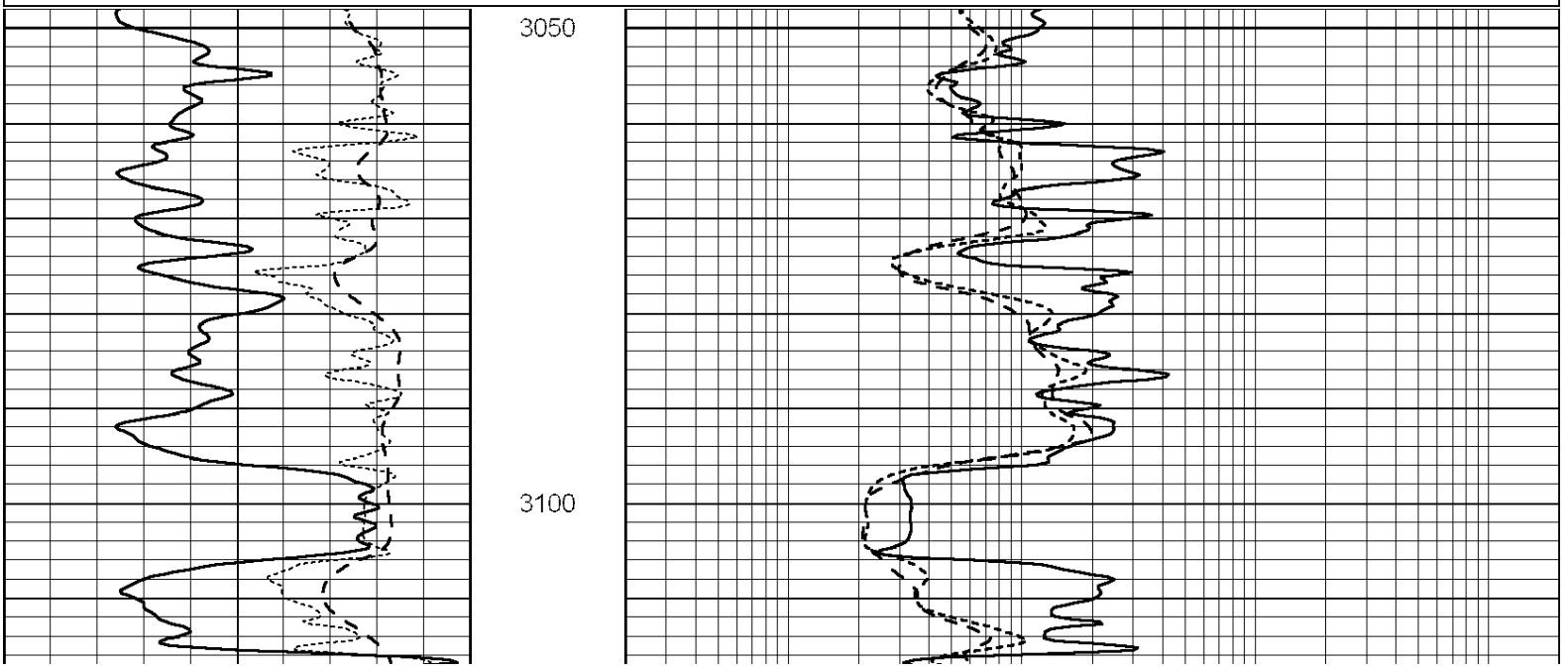
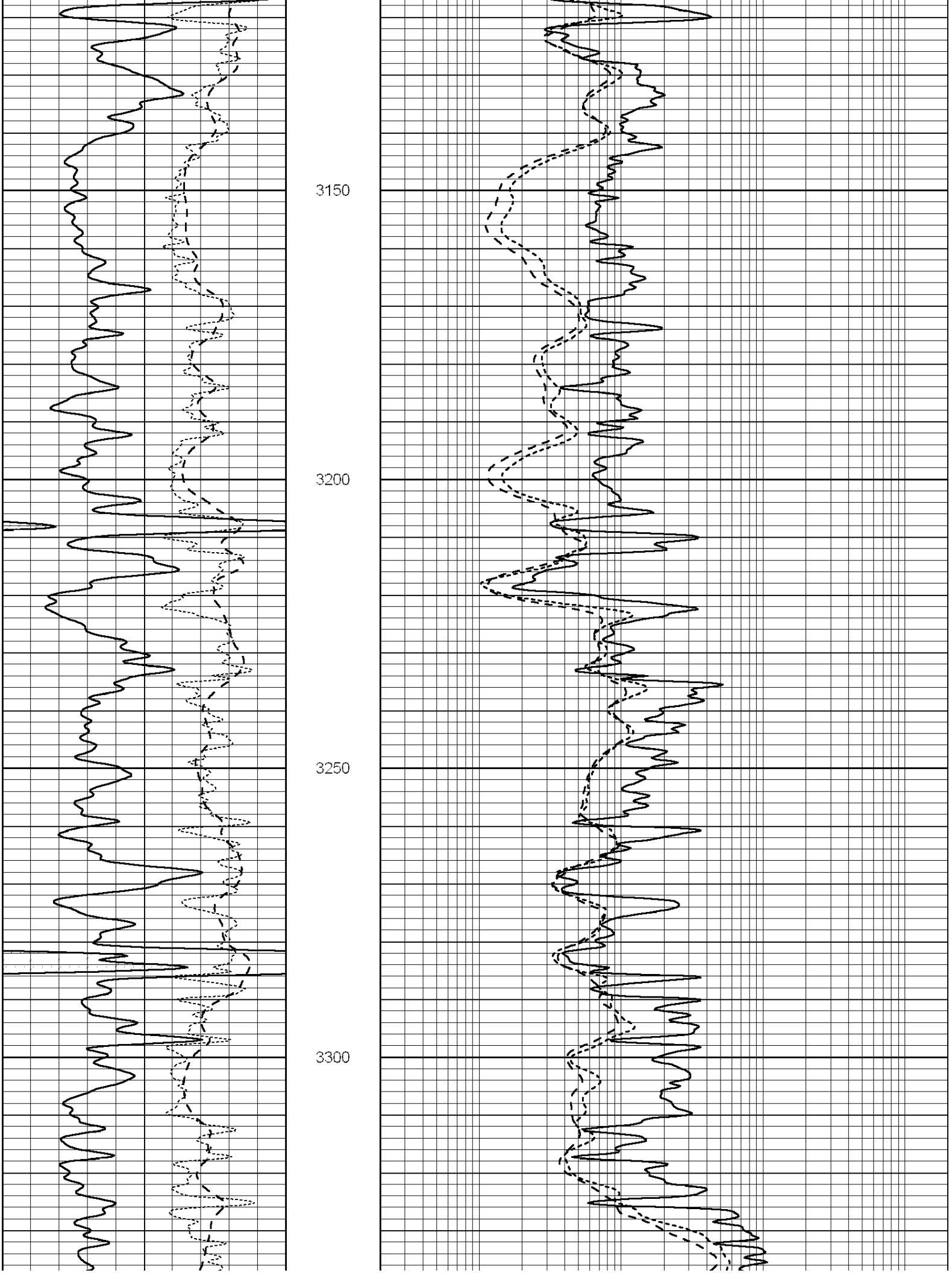
MAIN SECTION

Database File:	009600ddn.db
Dataset Pathname:	pass3.1
Presentation Format:	_dil
Dataset Creation:	Sat Sep 08 10:16:02 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

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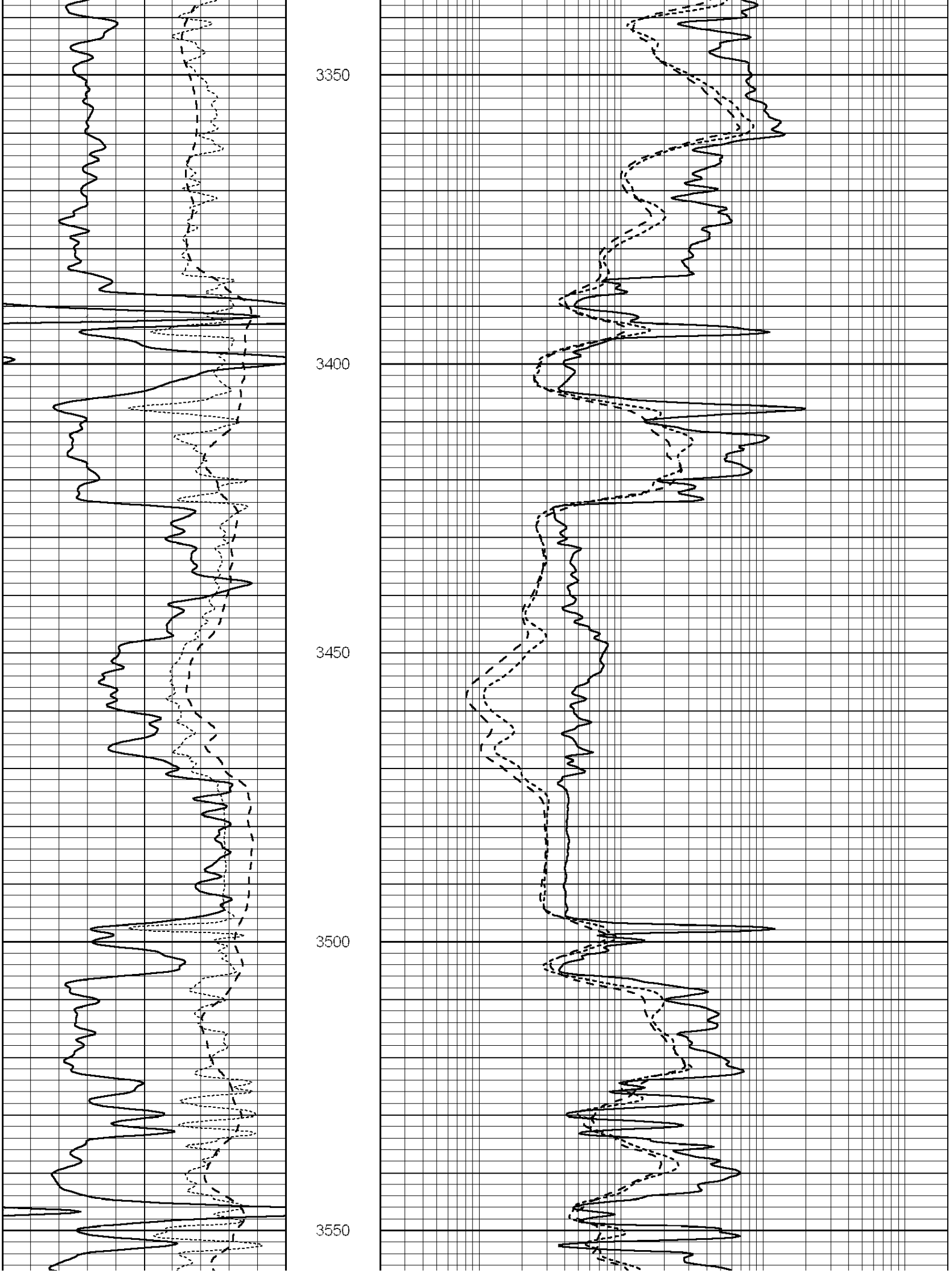
3200
3250
3300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3400
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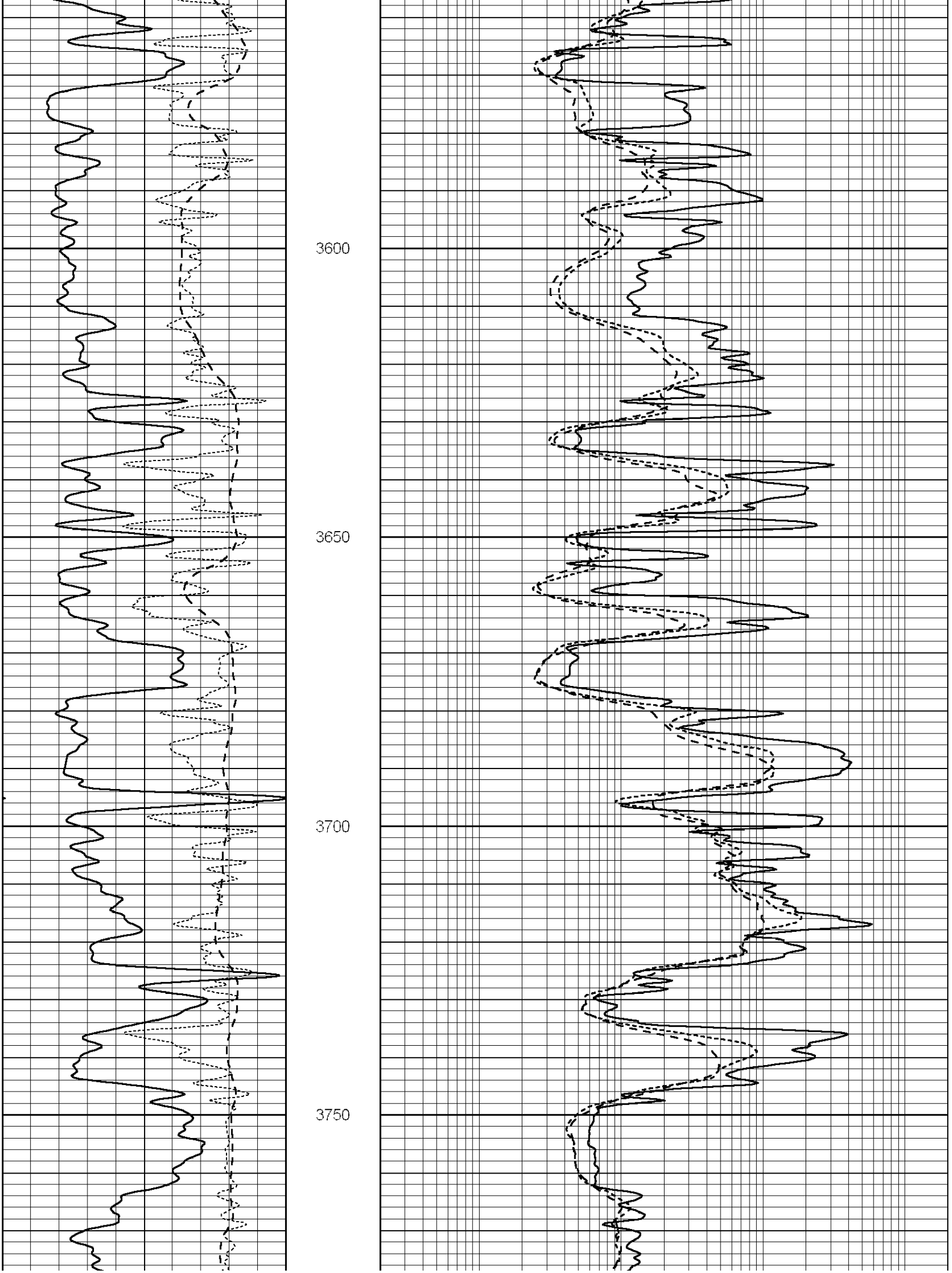
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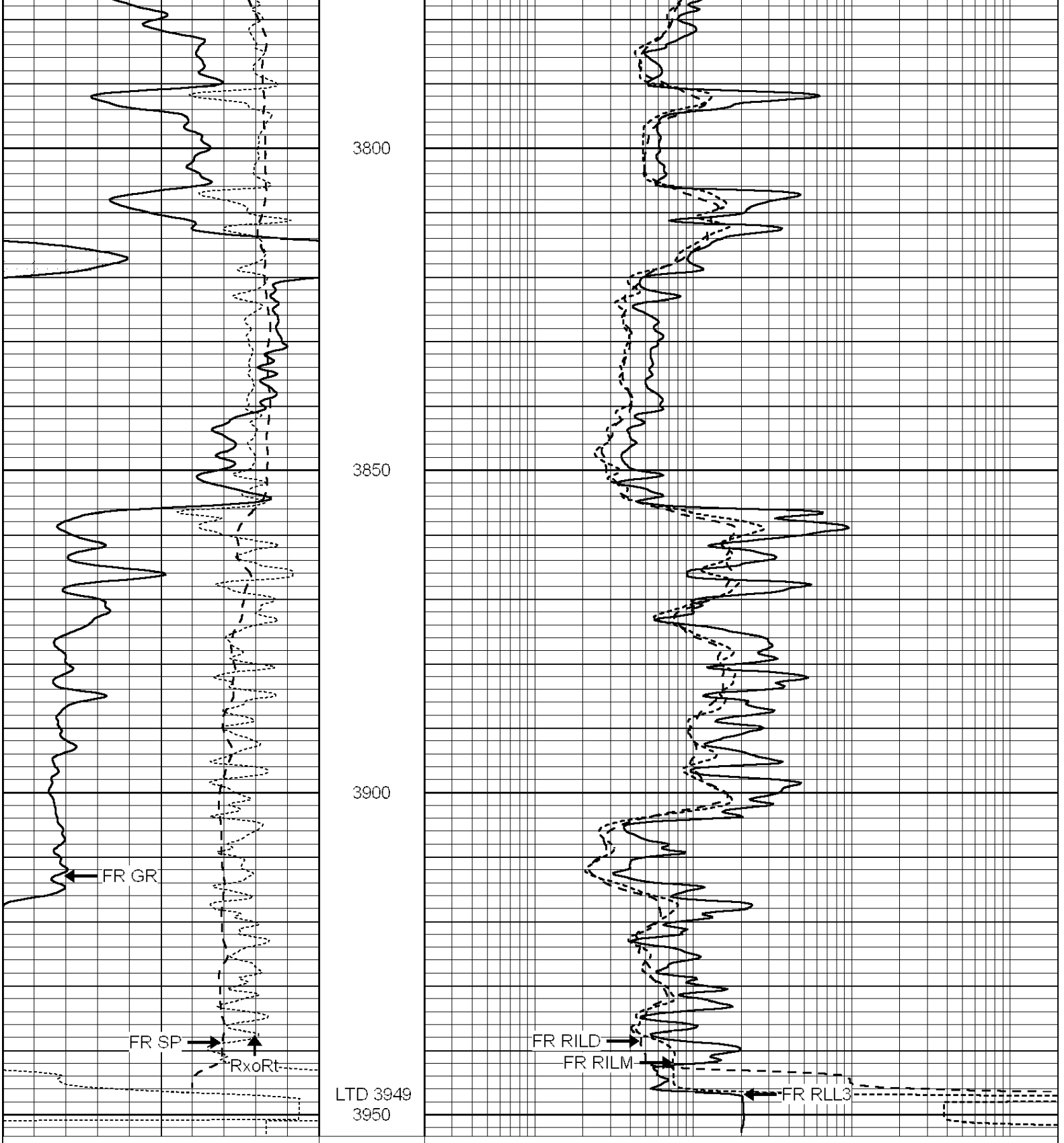

SUPERIOR WELL SERVICES

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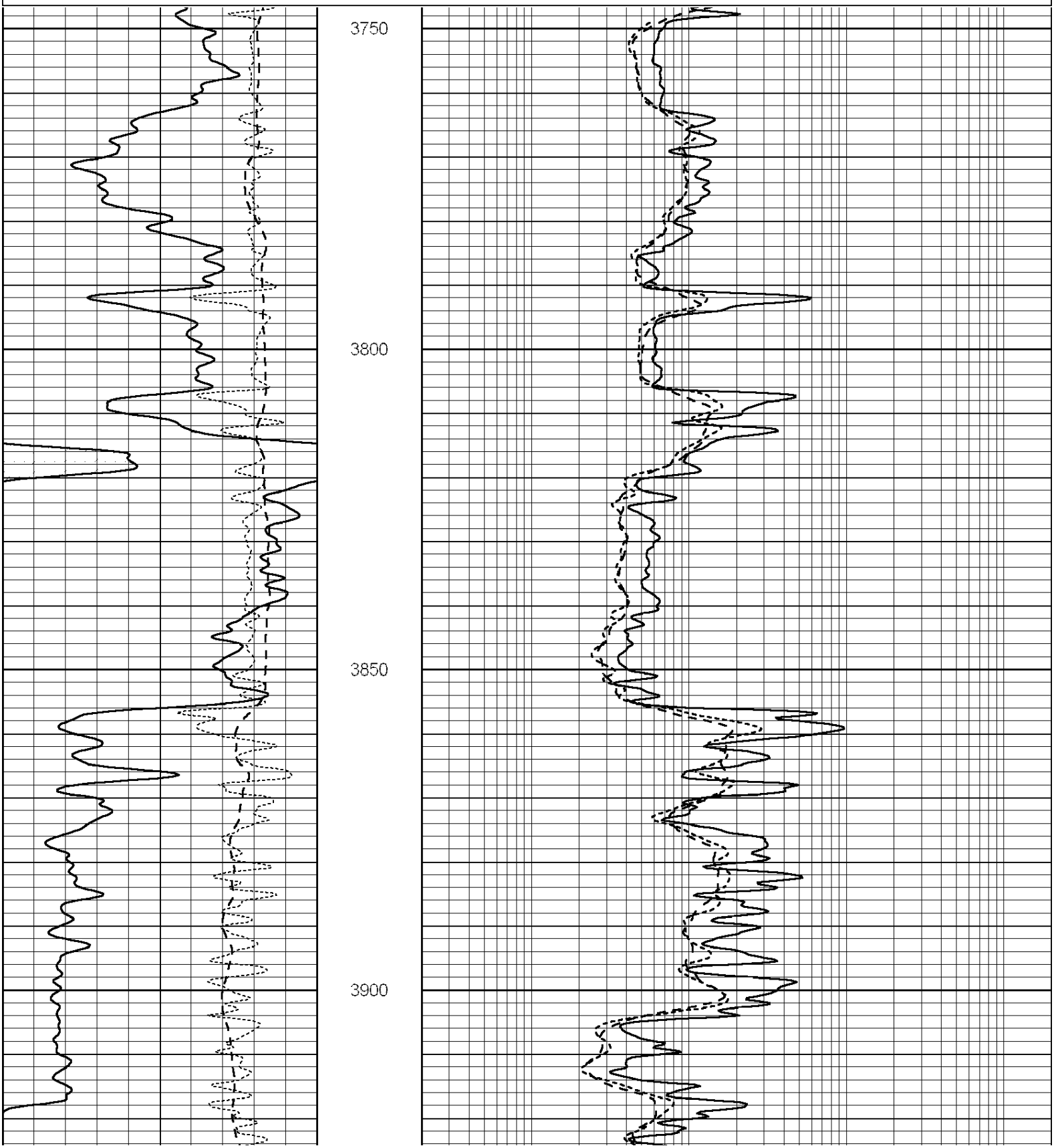
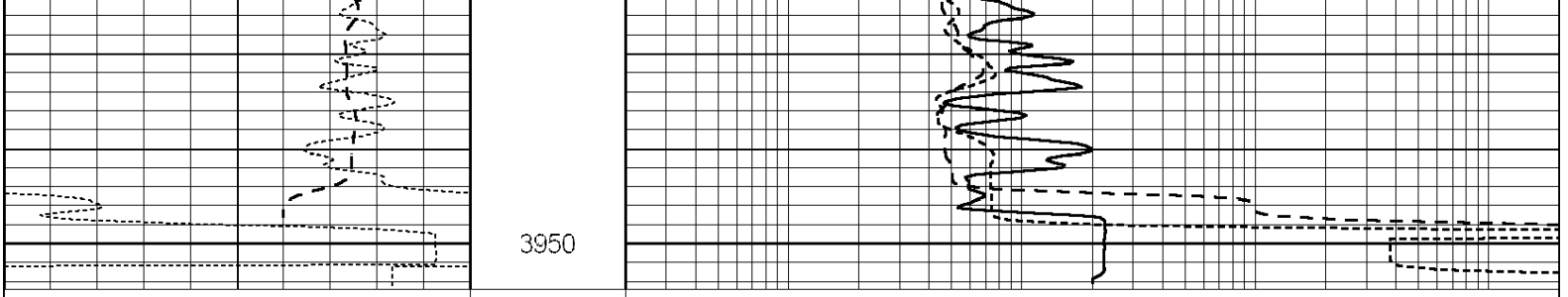
REPEAT SECTION

Database File:	009600ddn.db
Dataset Pathname:	pass2.1
Presentation Format:	_dil
Dataset Creation:	Sat Sep 08 09:52:32 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





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: 009600ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Sat Sep 08 10:16:02 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