Casedhole Solutions

DUAL INDUCTION LOG

Company SHELBY RESOURCES, LLC.
Well MP #1-23
Field
County BARTON
State KANSAS

Company SHELBY RESOURCES, LLC.
Well MP #1-23
Field
County BARTON State KANSAS
Location: API # : 15-009-26139-00-00
980' FNL & 1754' FWL
SEC 23 TWP 18S RGE 14W
Permanent Datum GROUND LEVEL Elevation 1906
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
MEL/SON

Elevation
K.B. 1917
D.F. 1915
G.L. 1906

Date	2/27/16			
Run Number	ONE			
Depth Driller	3520			
Depth Logger	3520			
Bottom Logged Interval	3518			
Top Log Interval	00			
Casing Driller	8 5/8" @ 857			
Casing Logger	857			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3900 PPM		
Density / Viscosity	9.3/59			
pH / Fluid Loss	10.0/7.2			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.80 @ 55F			
Rmf @ Meas. Temp	.60 @ 55F			
Rmc @ Meas. Temp	.96 @ 55F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	.39 @ 112F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom				
Maximum Recorded Temperature	112F			
Equipment Number	4010			
Location	HAYS, KANSAS			
Recorded By	JASON CAPPELLUCCI			
Witnessed By	JEREMY SCHWARTZ			

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Comments

THANK YOU FOR USING CASEDHOLE SOLUTIONS, HAYS, KS. (785) 628-6395
DIRECTIONS:
RUSSELL, KS. - SOUTH TO HWY 4 INTERSECTION - SOUTH TO THE CURVE EAST 1/4 EAST - SOUTH INTO

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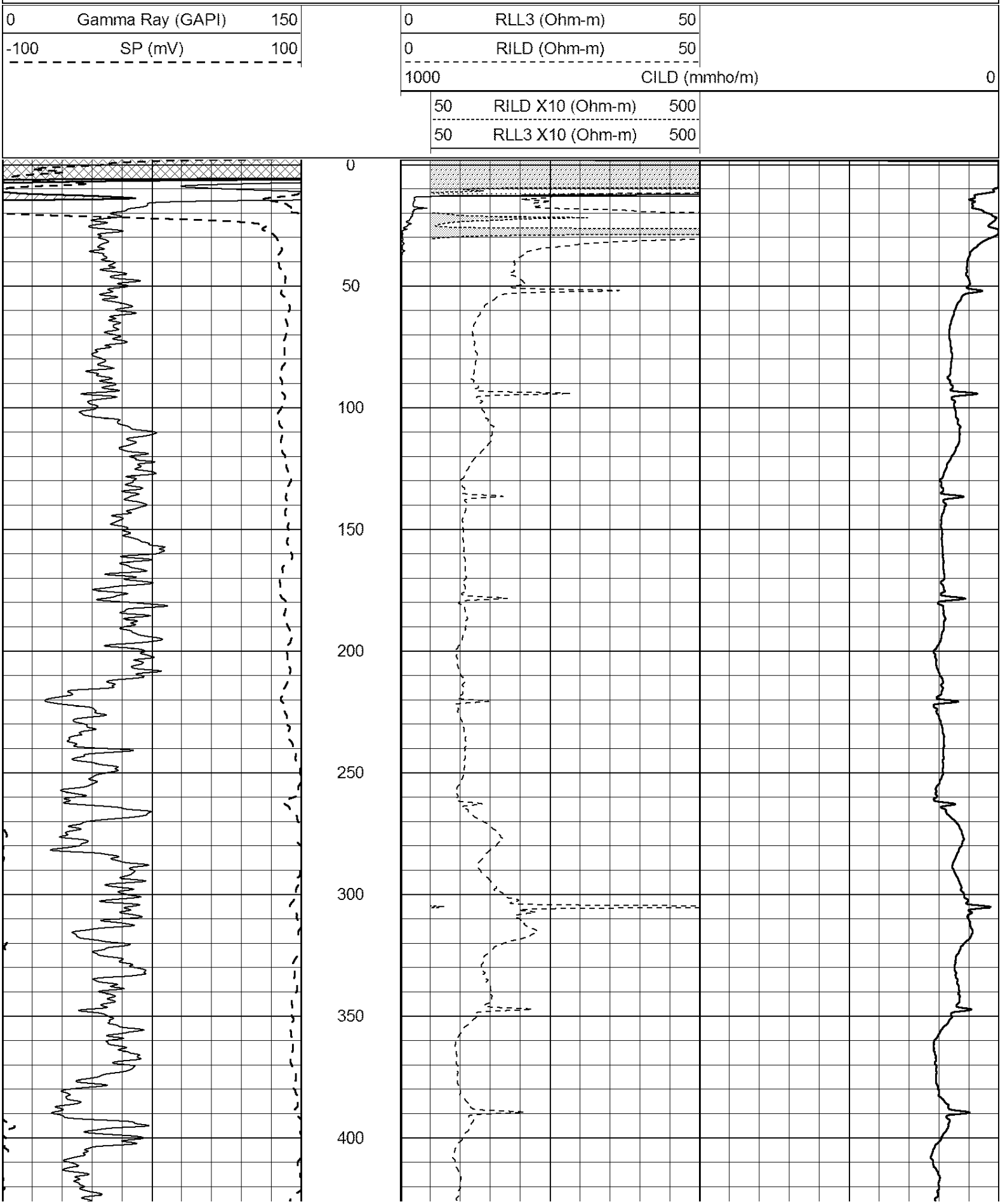
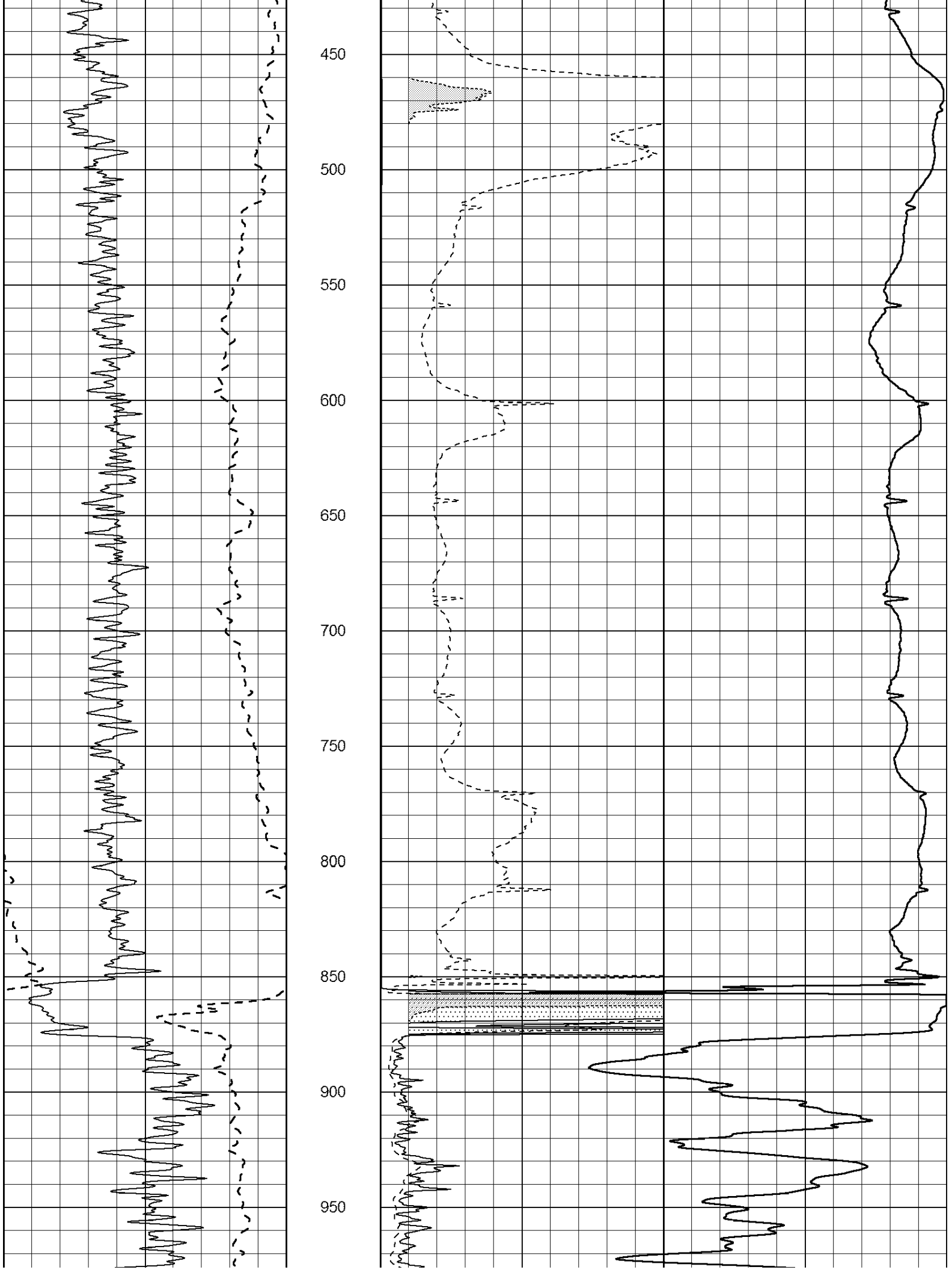
MAIN SECTION

Database File:	30893ddn.db
Dataset Pathname:	pass3.3
Presentation Format:	_dil2
Dataset Creation:	Sat Feb 27 03:20:54 2016 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:600

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650
700
750
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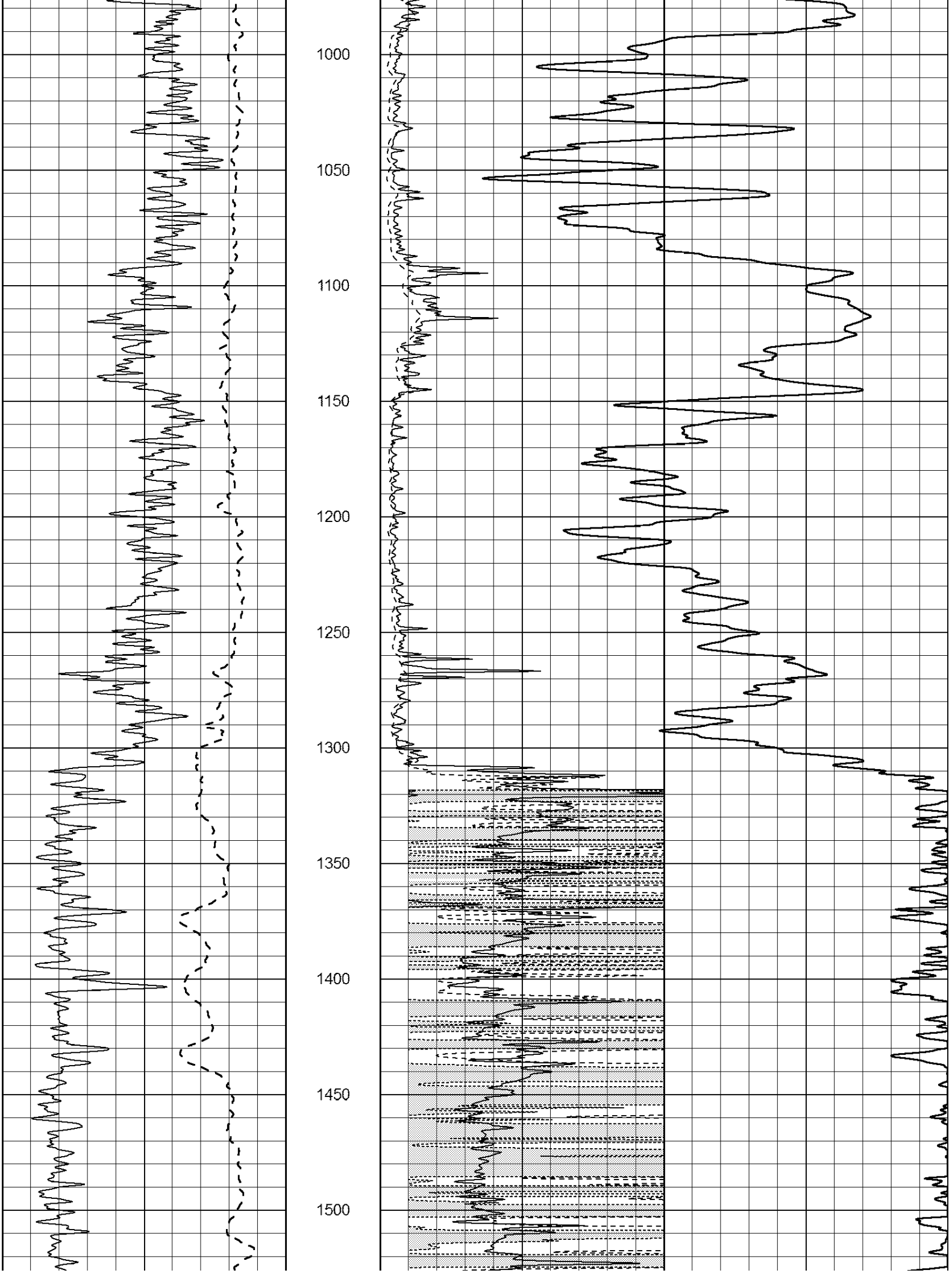
850
900
950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1400
1450
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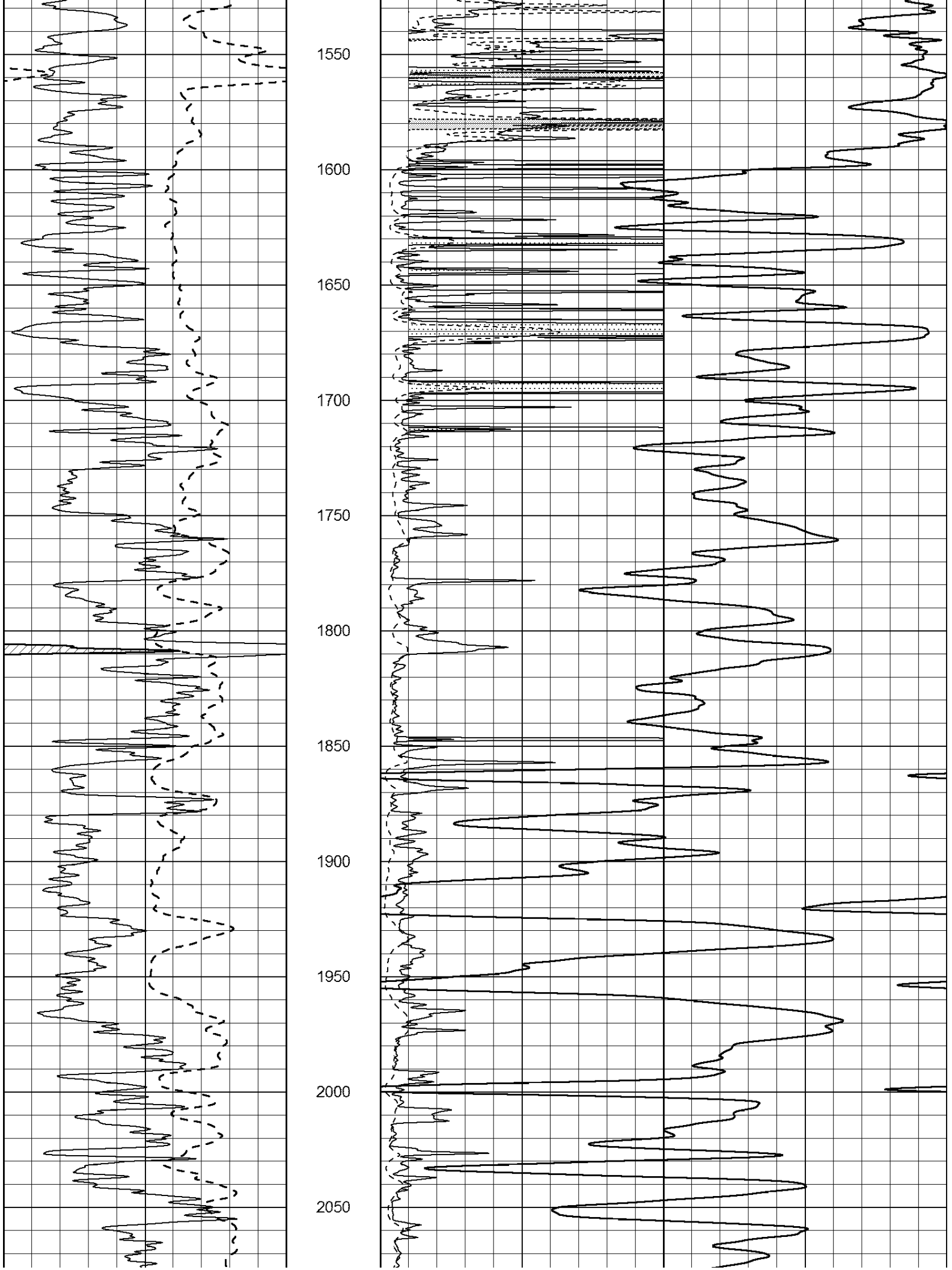
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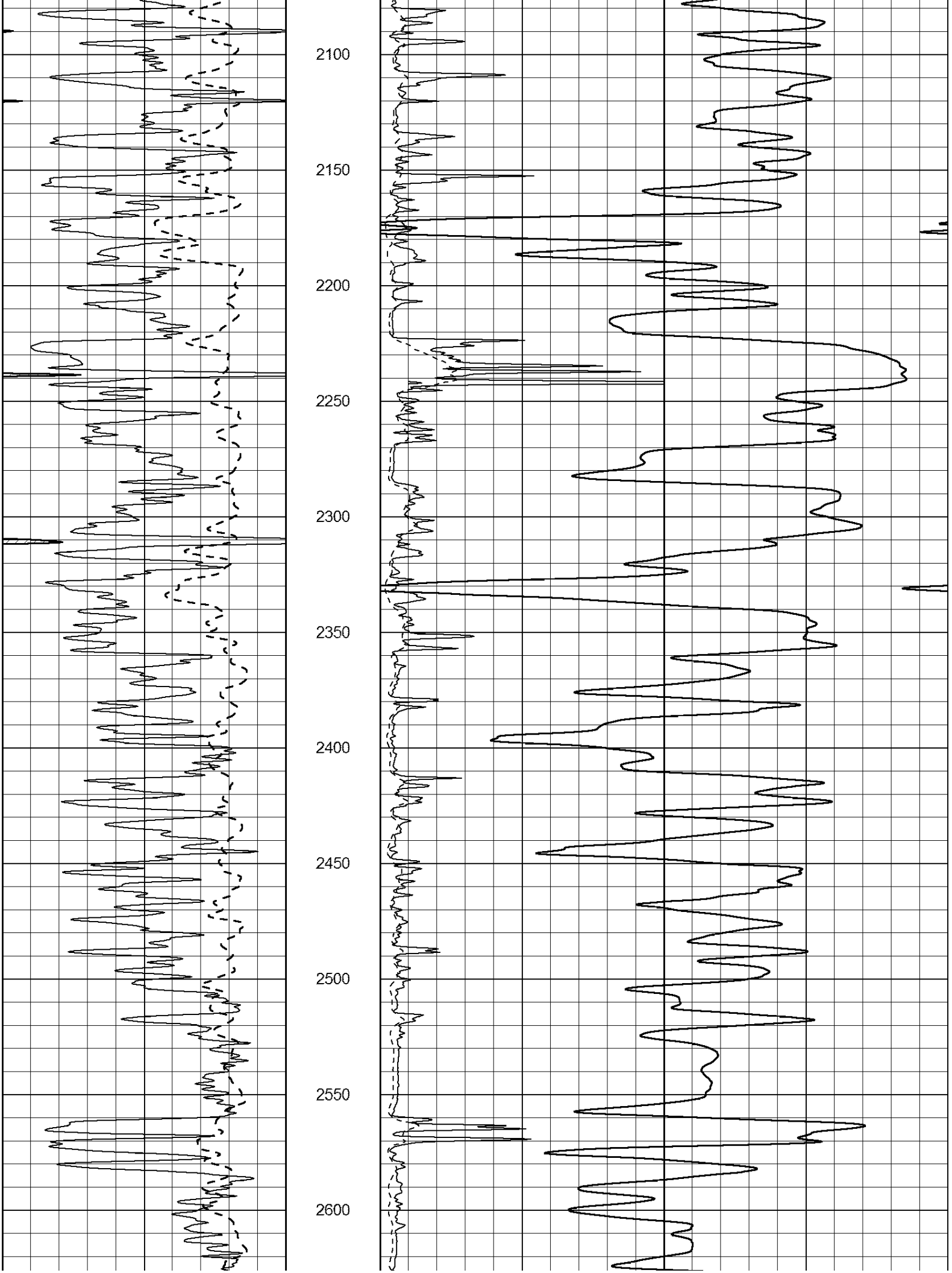
2000
2050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2300
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2450
2500
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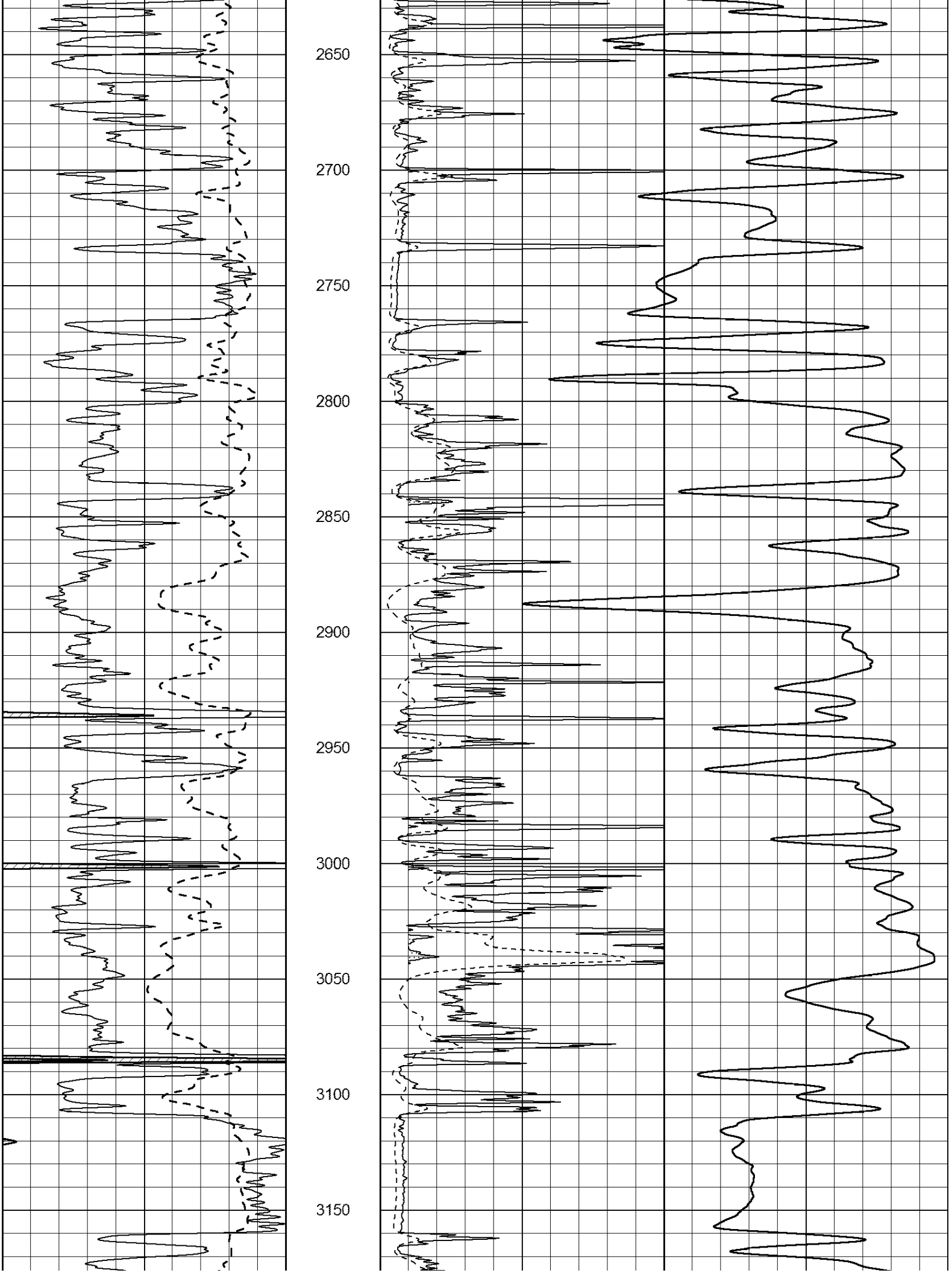
2600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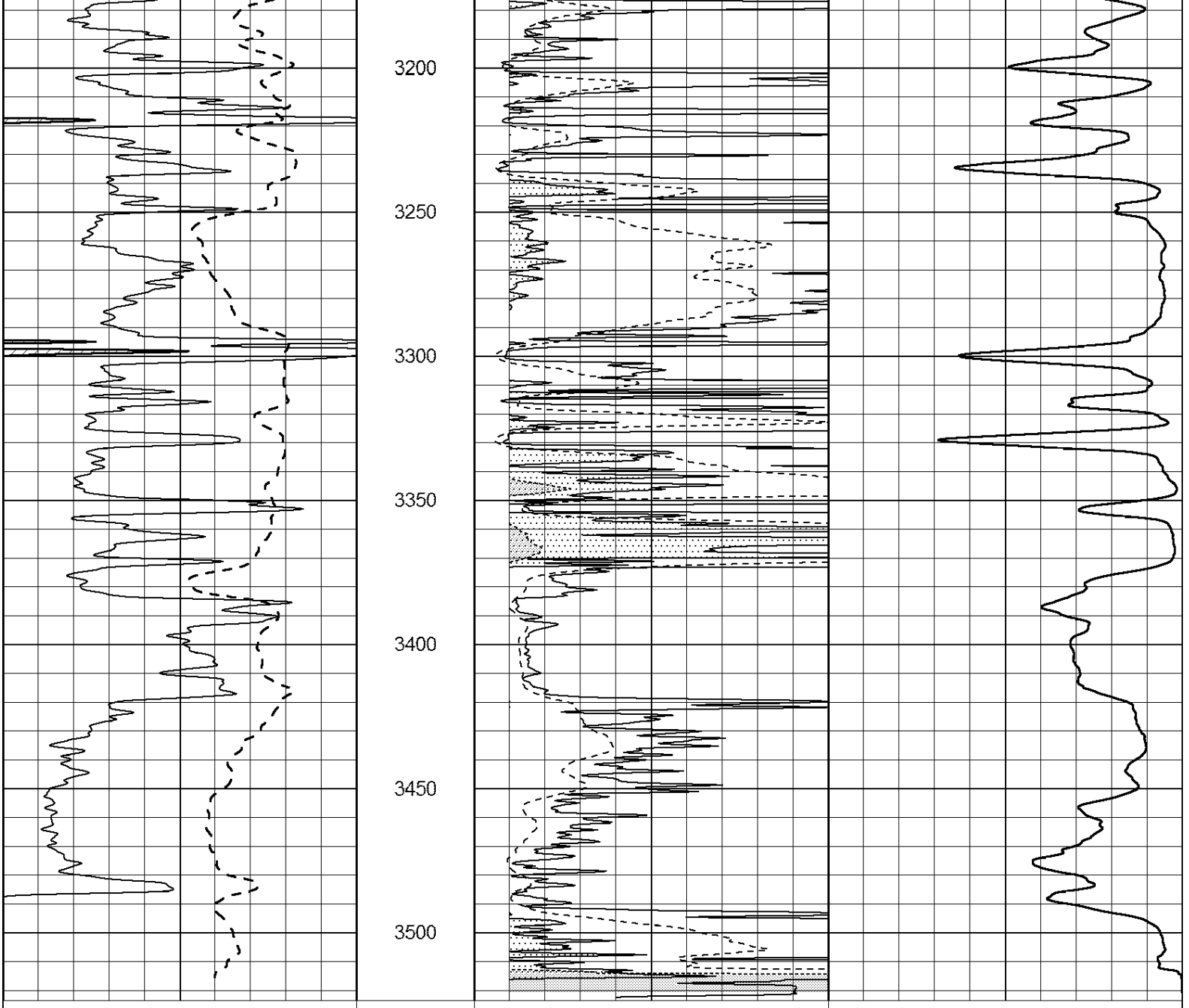
2850
2900
2950
3000
3050
3100
3150



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ANHYDRITE

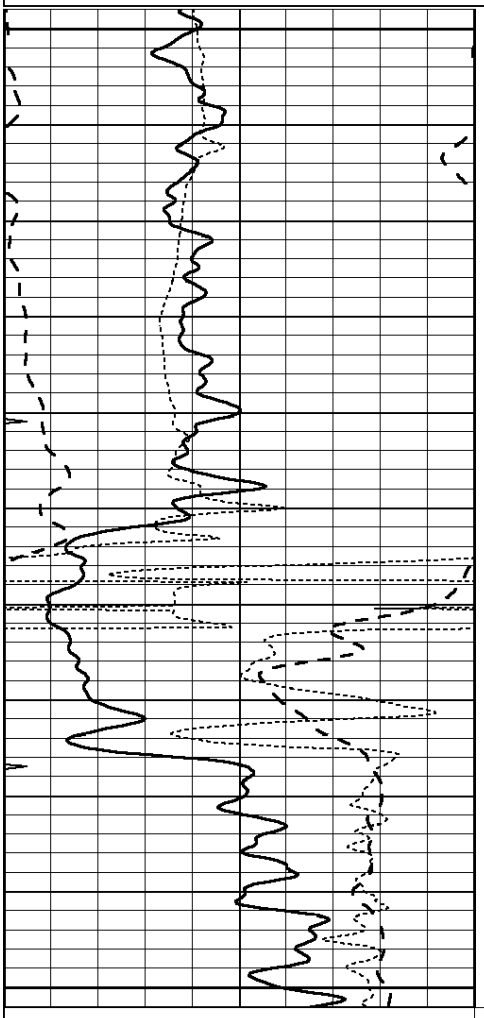
Database File:	30893ddn.db
Dataset Pathname:	pass3.2
Presentation Format:	_dil
Dataset Creation:	Sat Feb 27 02:52:08 2016 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100

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

-250	Rxo/Rt	50
0	MINMK	20

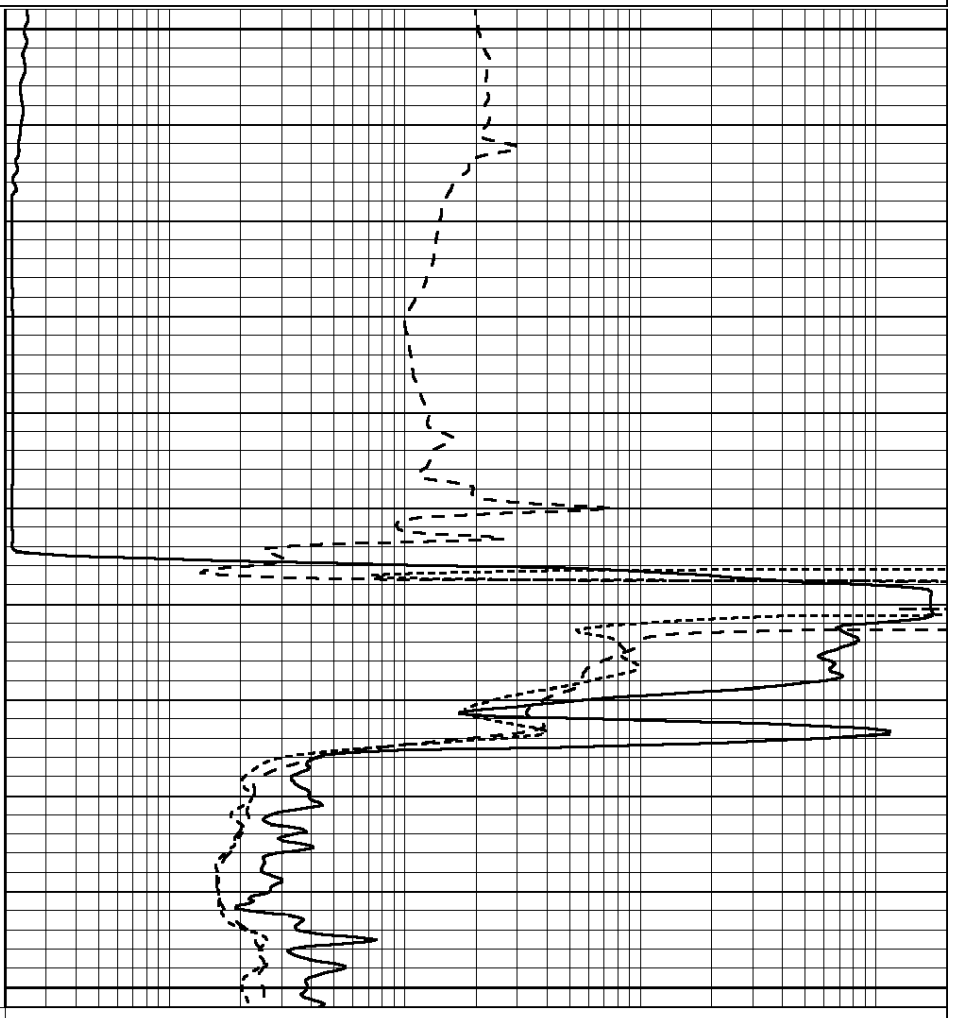
0.2	MEDIUM INDUCTION (Ohm-m)	2000



800

850

900



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

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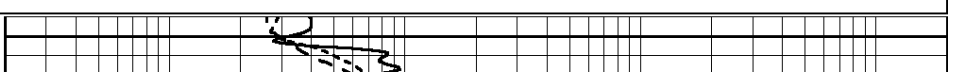
MAIN SECTION

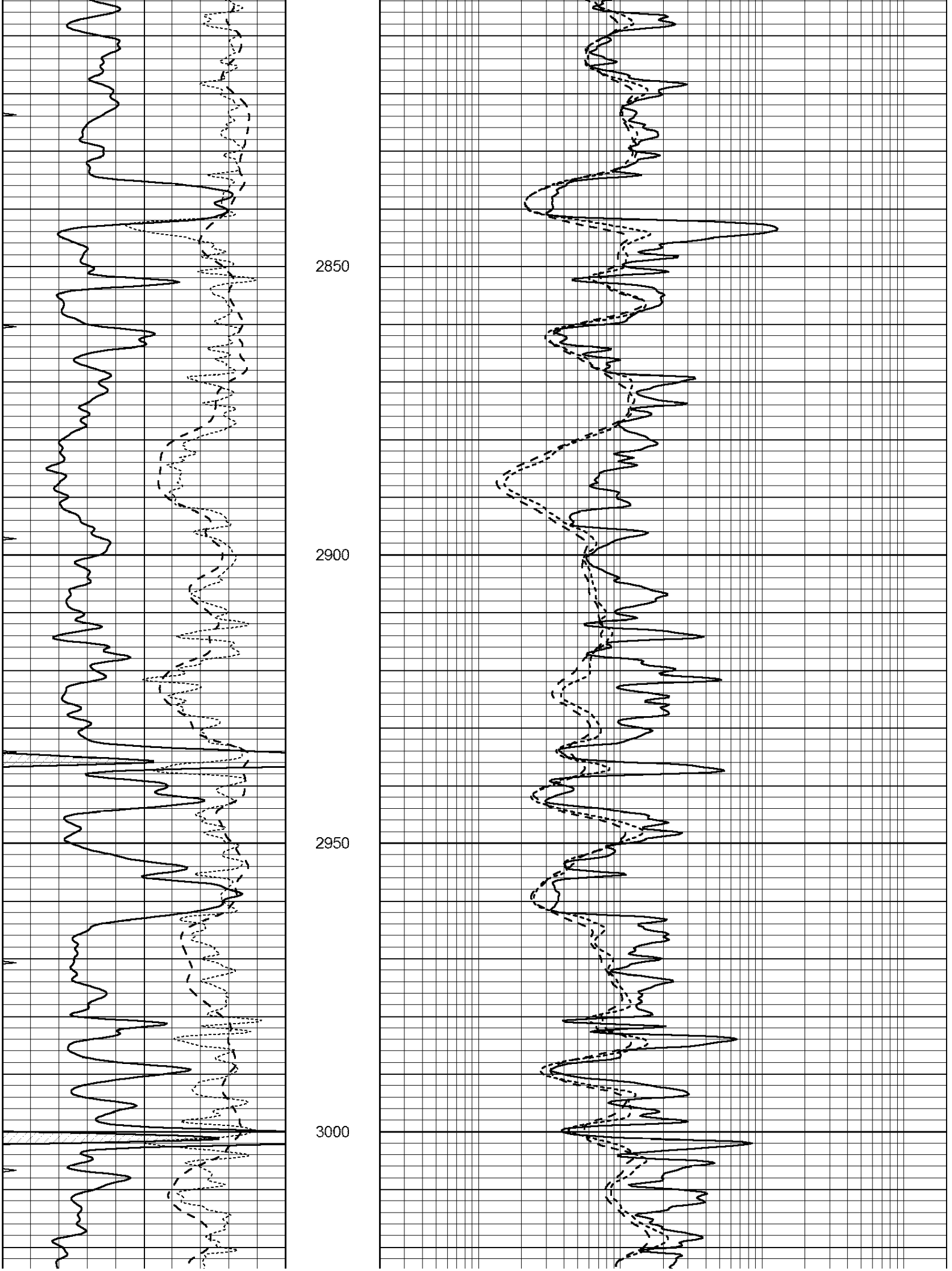
Database File:	30893ddn.db
Dataset Pathname:	pass3.1
Presentation Format:	_dil
Dataset Creation:	Sat Feb 27 02:29:03 2016 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

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

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

2800

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2900
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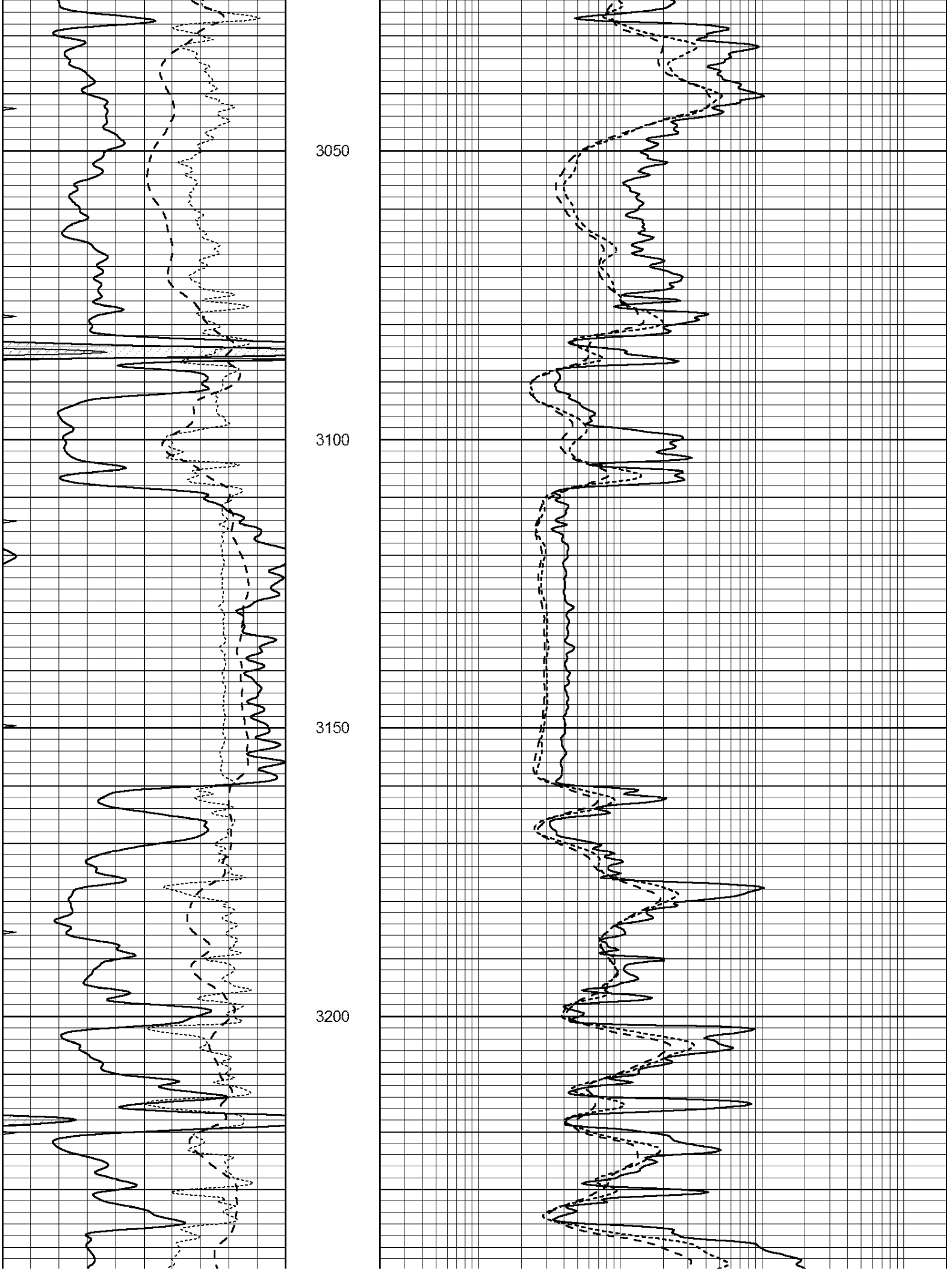
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3100
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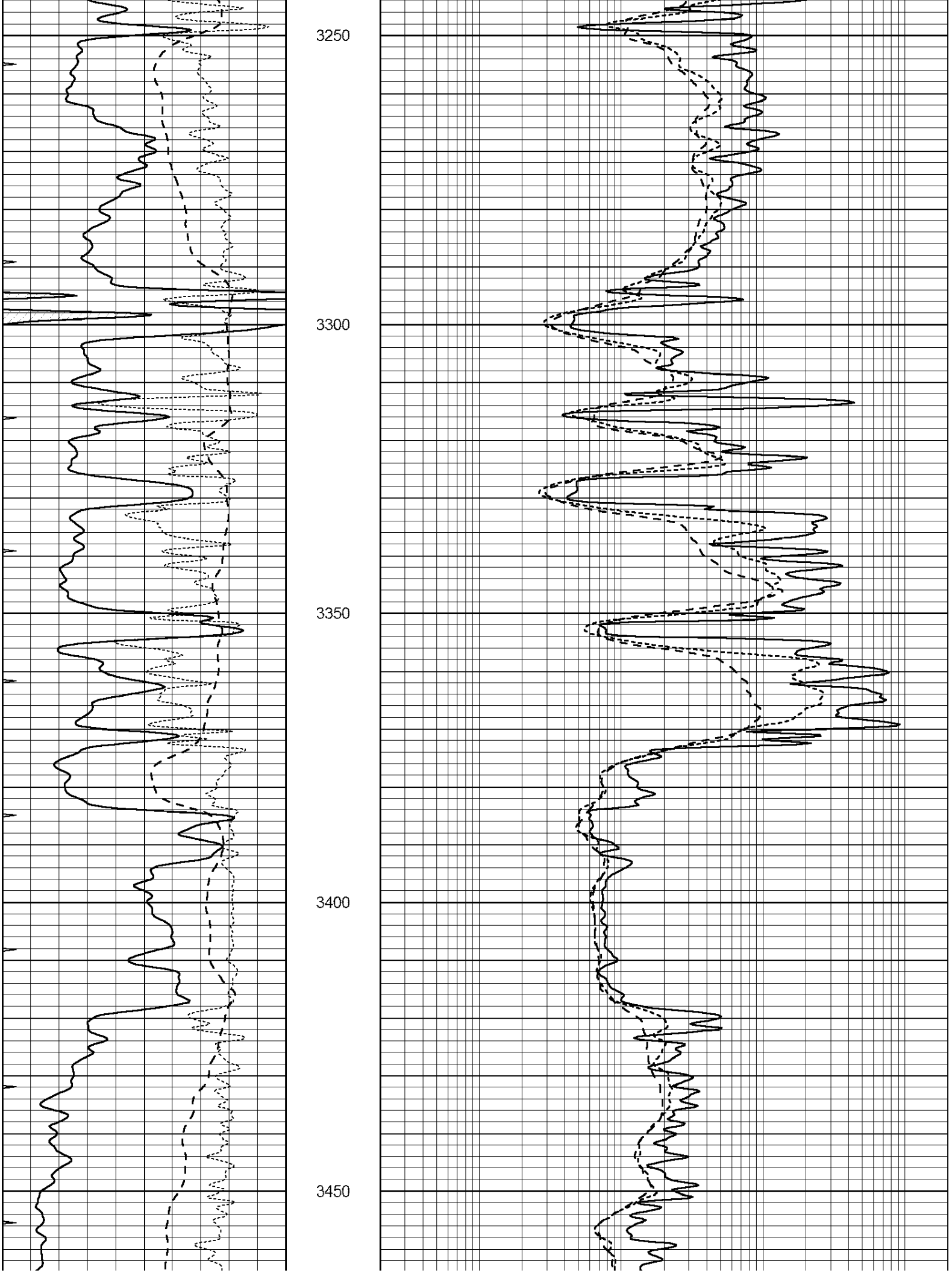
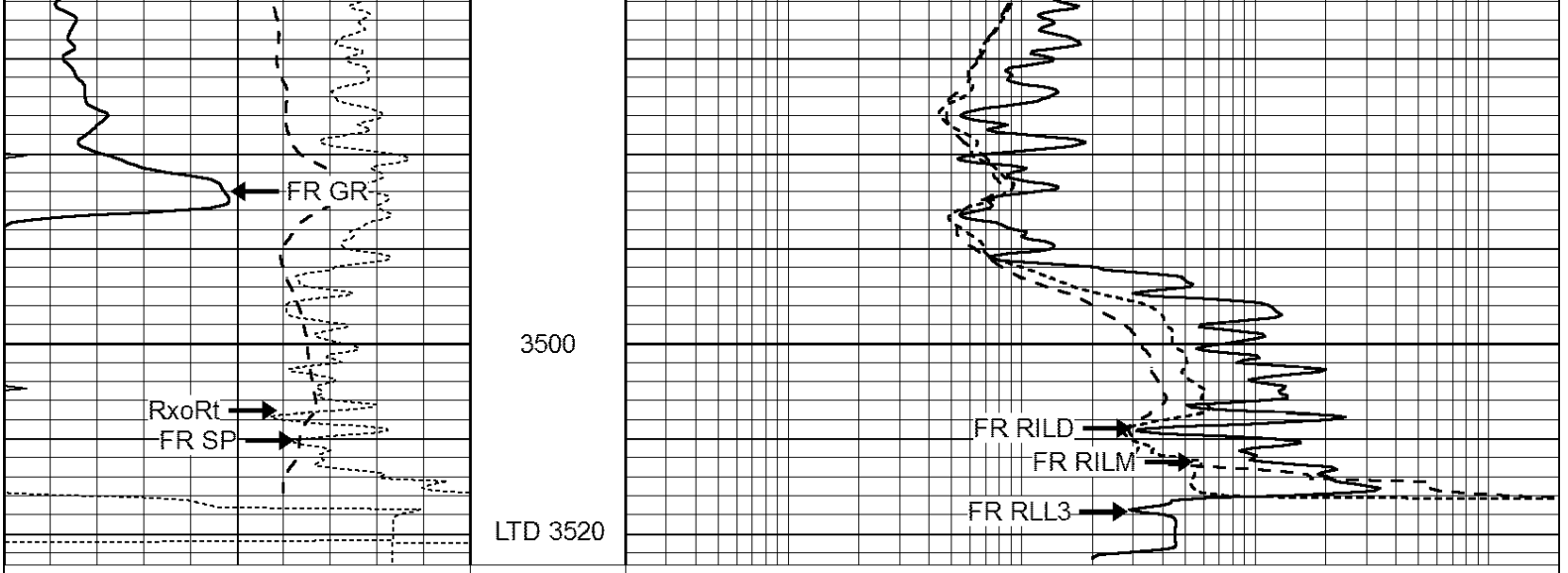
3200


3250
3300
3350
3400
3450



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

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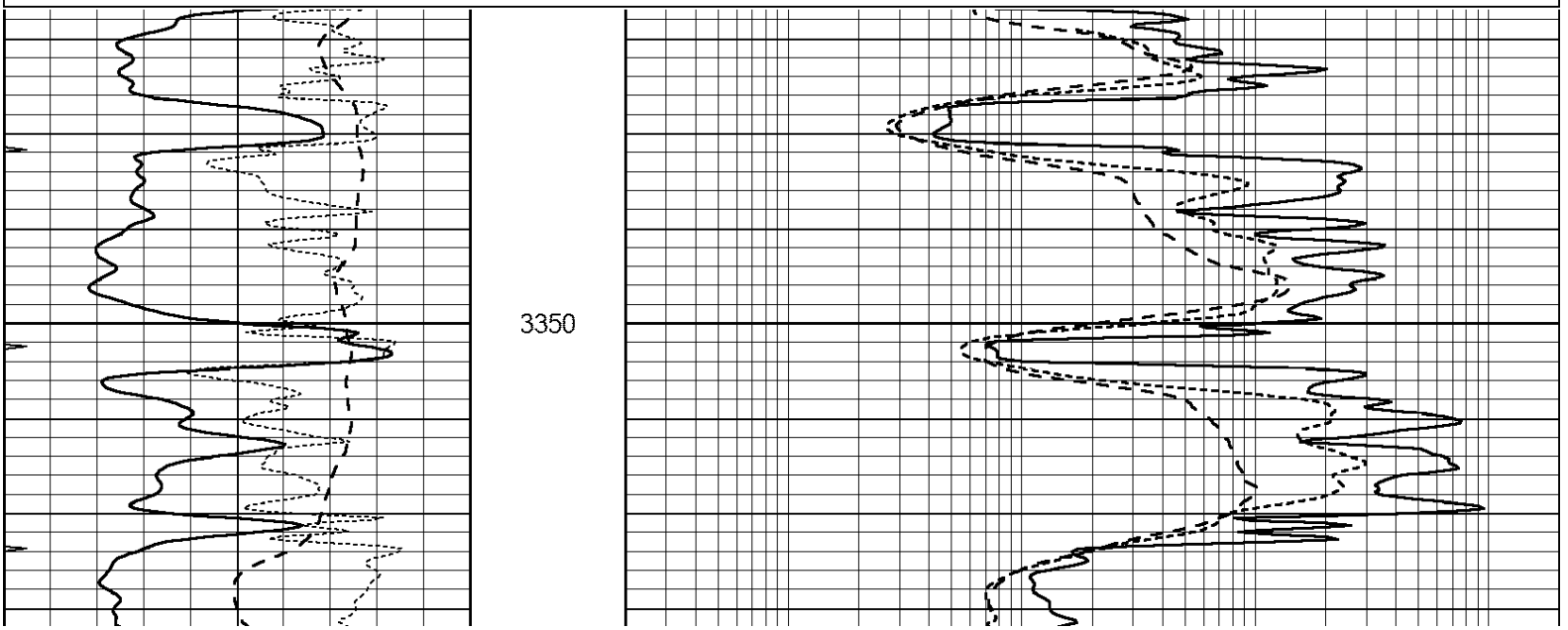
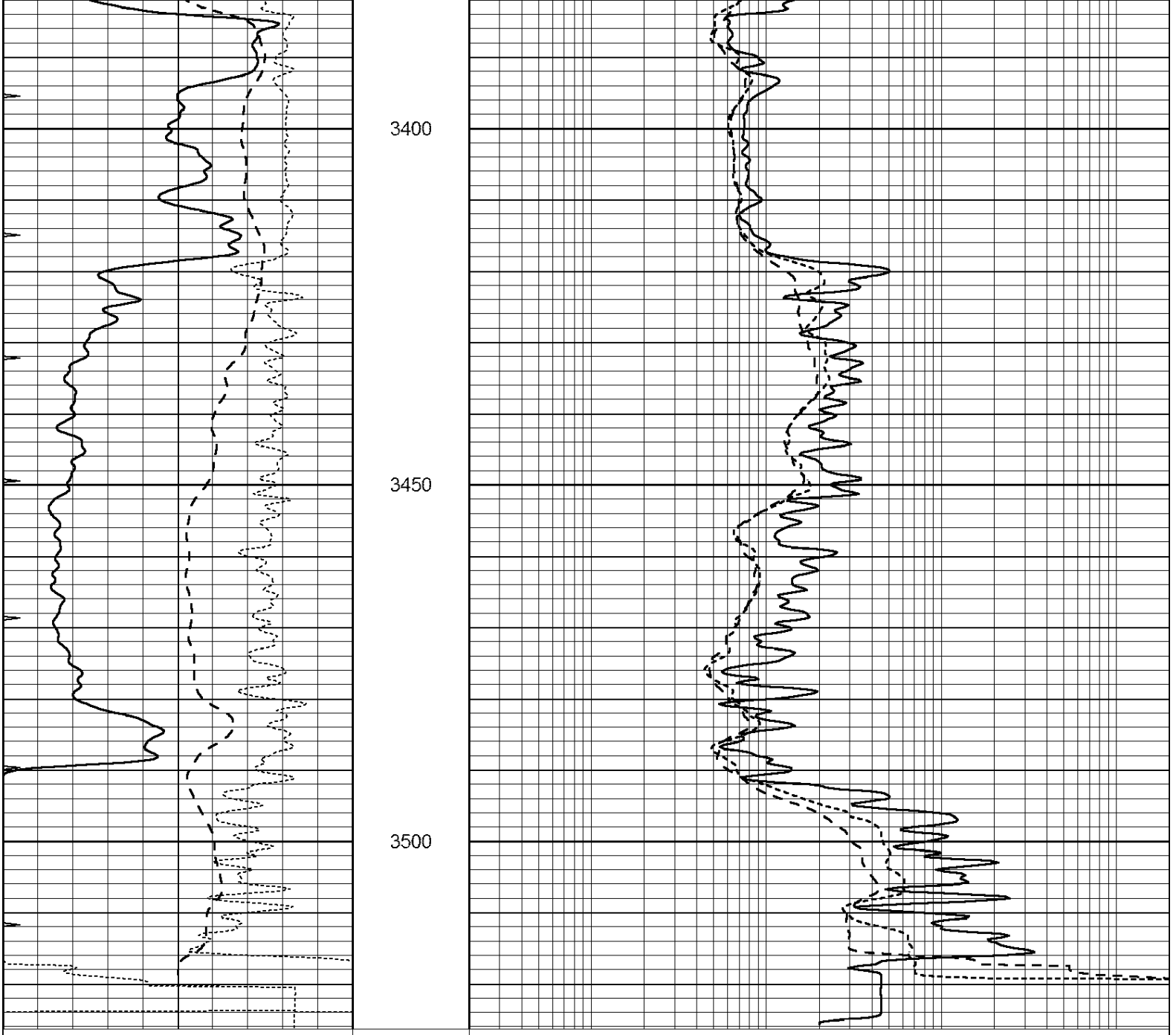
REPEAT SECTION

Database File:	30893ddn.db
Dataset Pathname:	pass2.1
Presentation Format:	_dil
Dataset Creation:	Sat Feb 27 02:11:49 2016 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	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: 30893ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Sat Feb 27 02:11:49 2016 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Sun May 10 19:54:09 2015
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	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000

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: GEAR5-GEARHART
Source / Verifier: /
Master Calibration Performed: Sun Dec 06 13:45:22 2015
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	798.83	465.02	cps
Aluminum	2.570	g/cc	178.16	323.19	cps

Spine Angle = 76.37 Density/Spine Ratio = 0.557

	Size		Reading	
Small Ring	7.00	in	1.47	V
Large Ring	14.00	in	3.01	V

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc

g/cc g/cc

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

PRE-SURVEY VERIFICATION

	Detector	Readings		Measured		Target	
1)	Short Space		cps				
	Long Space		cps		pu		pu
2)	Short Space		cps				
	Long Space		cps		pu		
3)	Short Space		cps				
	Long Space		cps		pu		

POST-SURVEY VERIFICATION

	Detector	Readings		Measured		Target	
1)	Short Space		cps				
	Long Space		cps		pu		pu
2)	Short Space		cps				
	Long Space		cps		pu		pu
3)	Short Space		cps				
	Long Space		cps		pu		pu

Gamma Ray Calibration Report

Serial Number: GR6
Tool Model: OPEN
Performed: Thu Nov 12 05:47:01 2015

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 276.0 cps

Sensitivity: 0.4500 GAPI/cps