



**SUPERIOR
Hays,
Kansas**

DUAL INDUCTION LOG

Company I.A. OPERATING, INC.
Well JAMISON FAMILY TRUST #29-1
Field WILDCAT
County SHERIDAN
State KANSAS

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Field WILDCAT
County SHERIDAN State KANSAS

Location: API # : 15-179-21243-0000
1650' FNL & 1050' FEL
SEC 29 TWP 8S RGE 27W
Permanent Datum GROUND LEVEL Elevation 2606
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
MEL/SONIC
Elevation
K.B. 2611
D.F. 2609
G.L. 2606

Date	12/20/09		
Run Number	CNE		
Depth Driller	4020		
Depth Logger	4012		
Bottom Logged Interval	4010		
Top Log Interval	00		
Casing Driller	8 5/8"@221'		
Casing Logger	221		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,000 PPM	
Density / Viscosity	9.3/54		
pH / Fluid Loss	10.2/7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30@80F		
Rmf @ Meas. Temp	.975@80F		
Rmc @ Meas. Temp	1.56@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.897@116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	4:45 A.M.		
Maximum Recorded Temperature	116F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	STEVE MILLER		

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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

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
TASCO, KS. 2 W. ON HWY 24 TO "RD. 50", 2 S., 1/4 W., S. INTO PASTURE



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MAIN SECTION

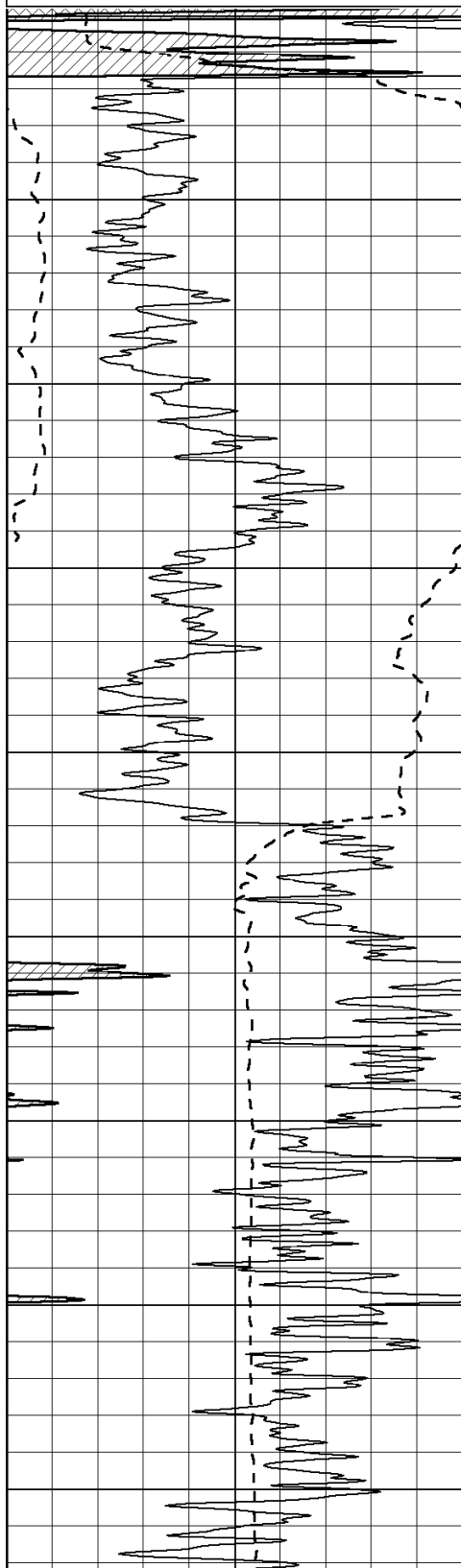
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 Dataset Pathname: pass4.3
 Presentation Format: dil2
 Dataset Creation: Sun Dec 20 06:09:02 2009 by Calc Open-Cased 060407
 Charted by: Depth in Feet scaled 1:600

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

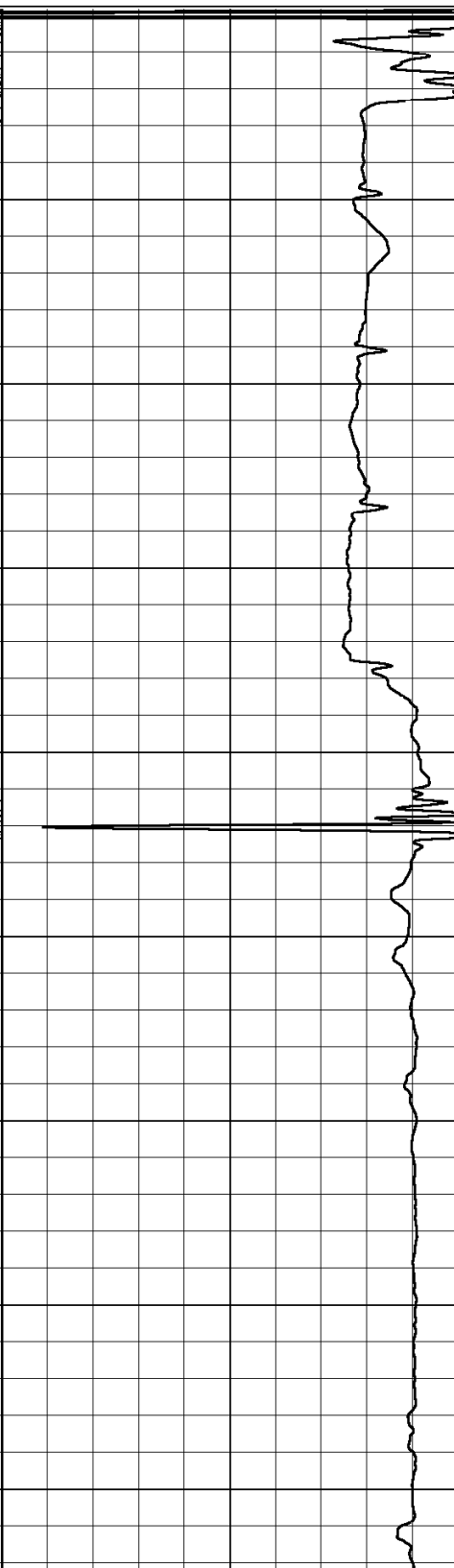
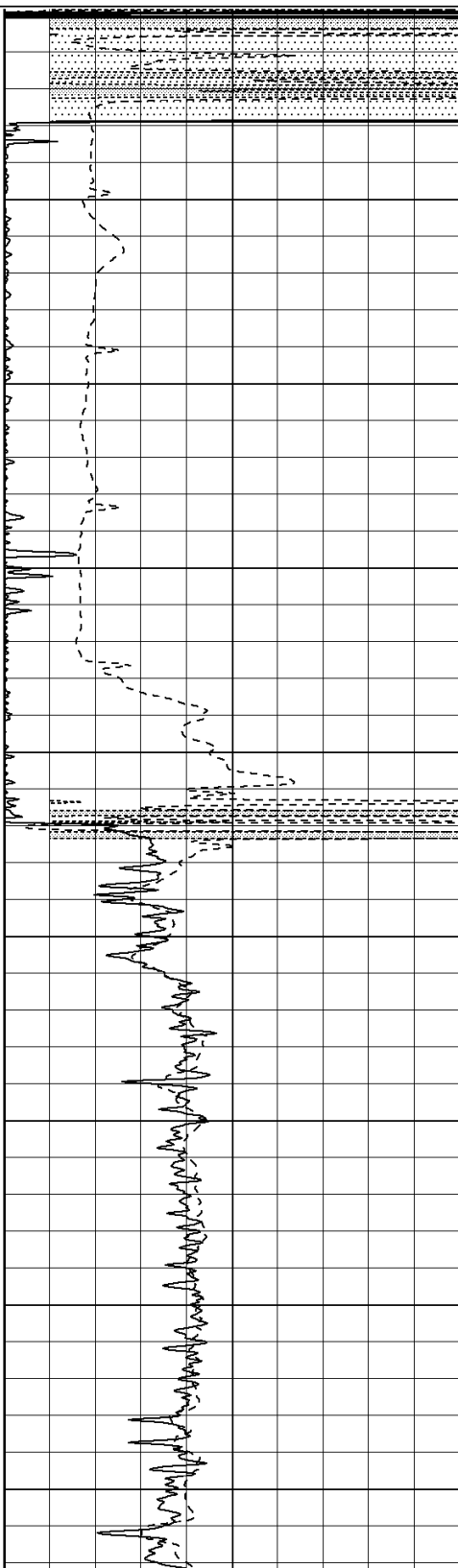
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0	RILD (Ohm-m)	50

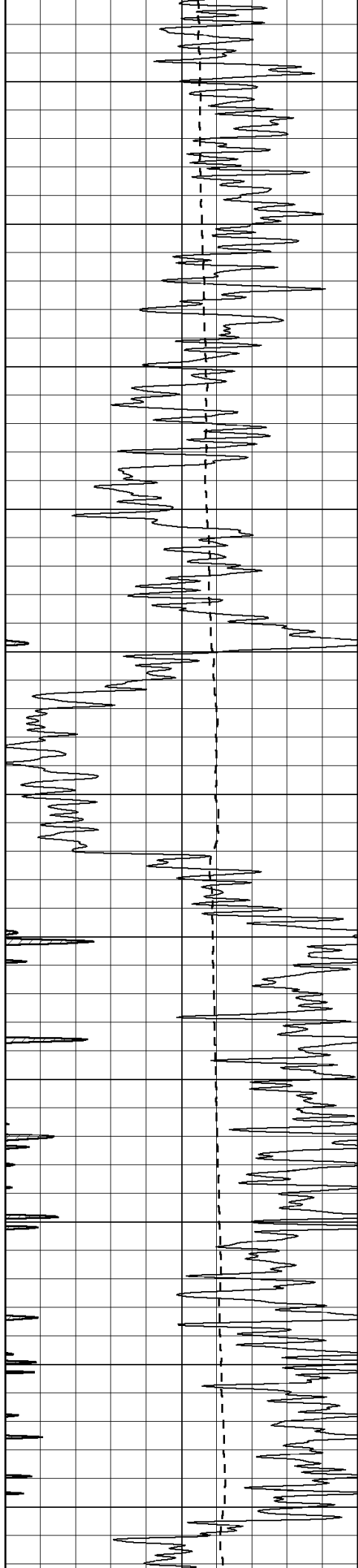
1000	CILD (mmho-m)	0
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

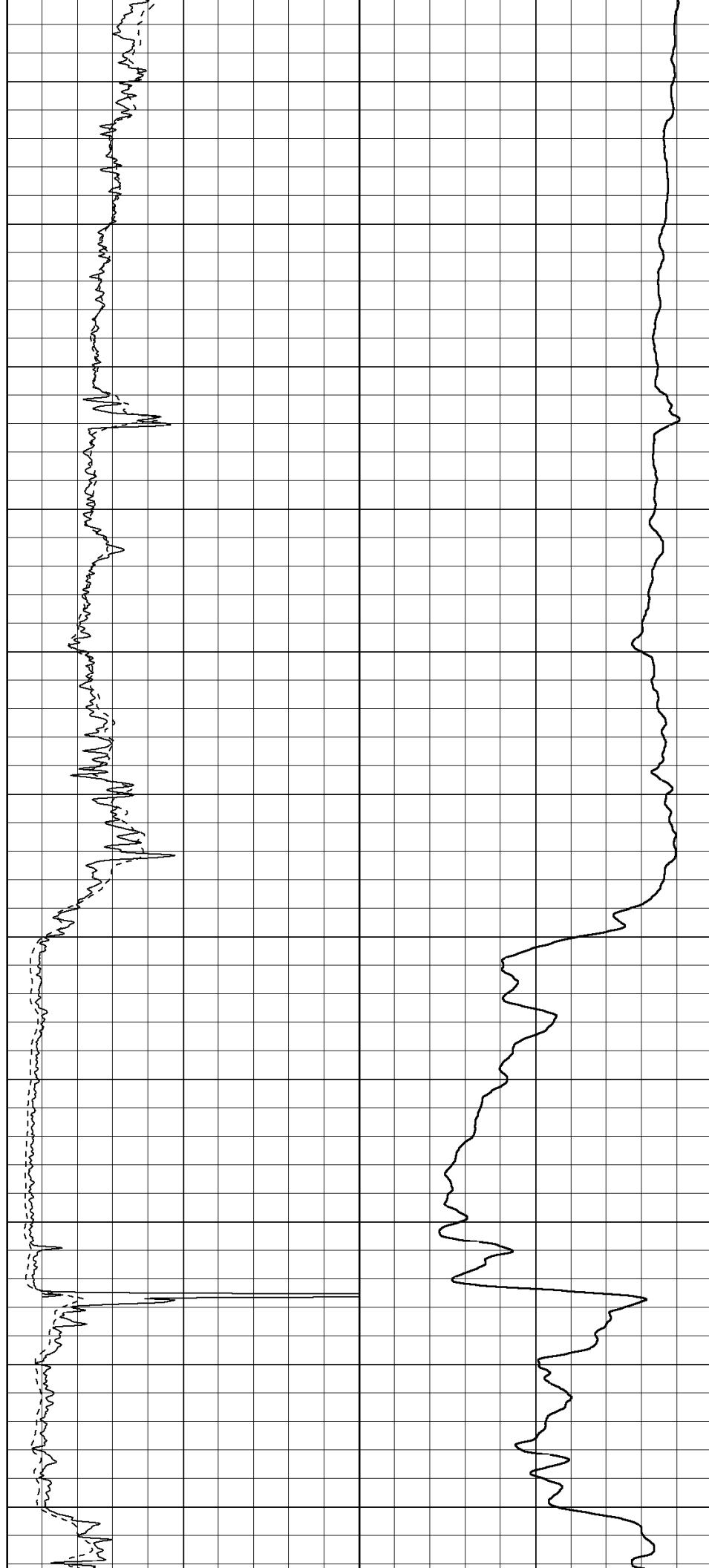
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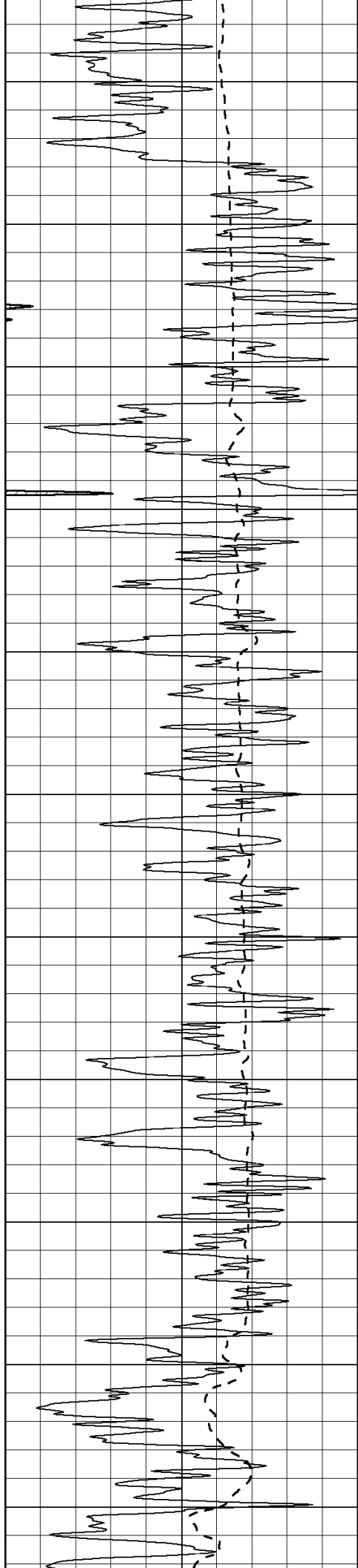
800

850

900

950





1000

1050

1100

1150

1200

1250

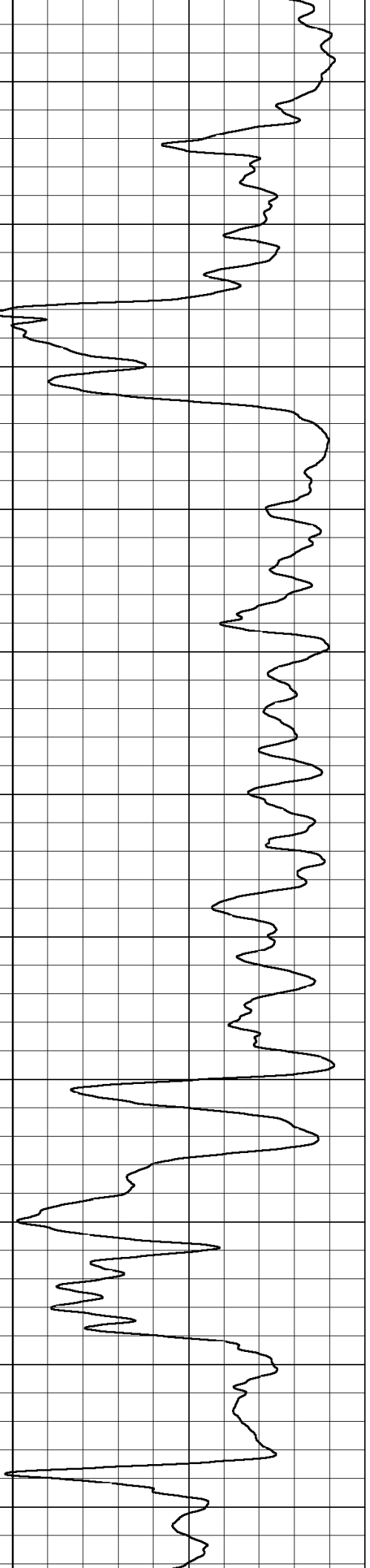
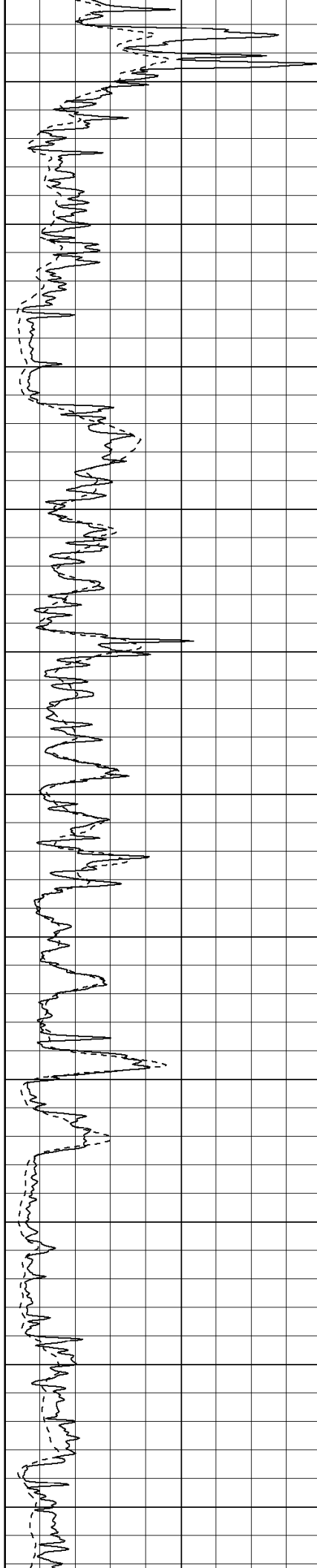
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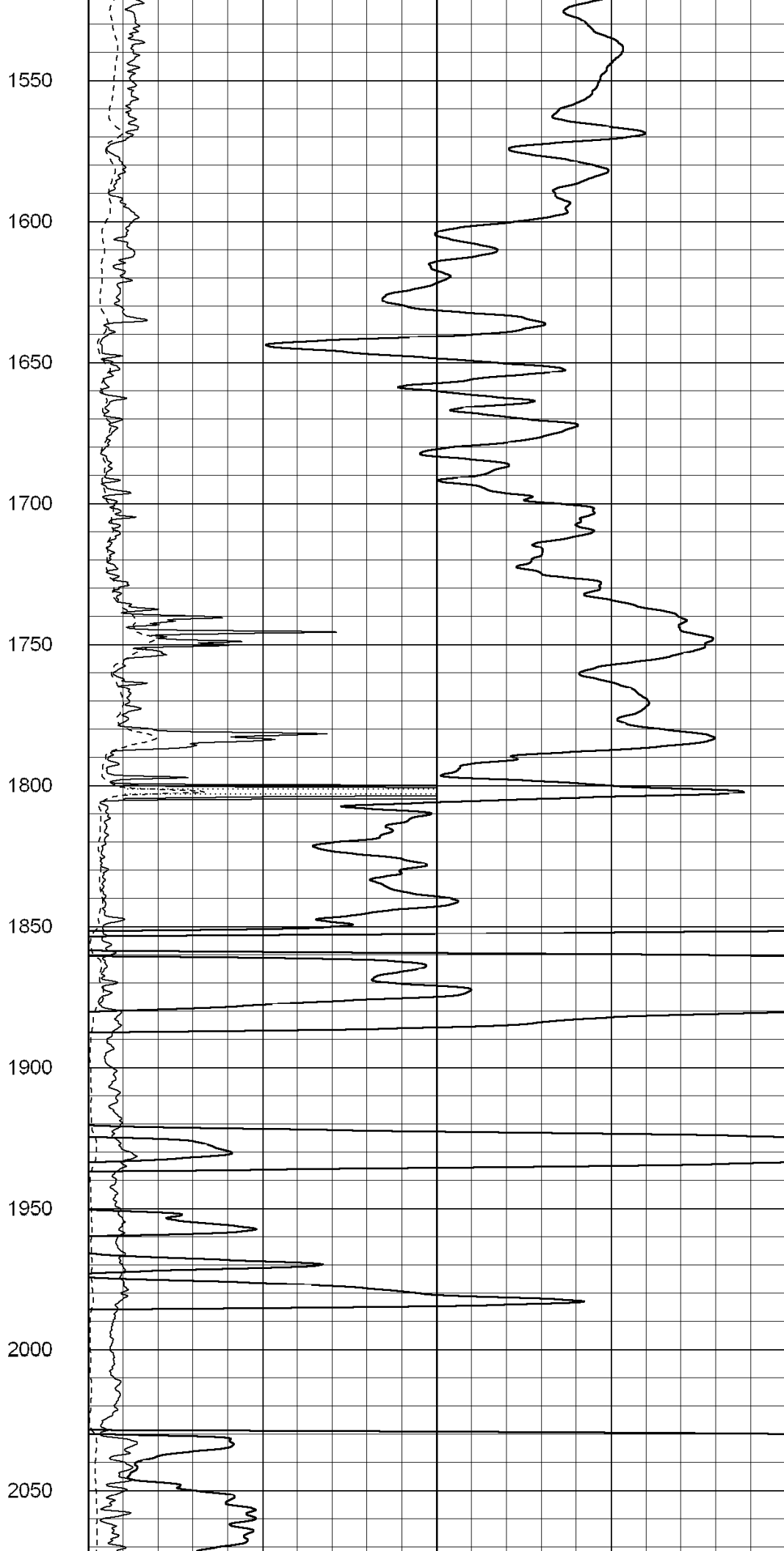
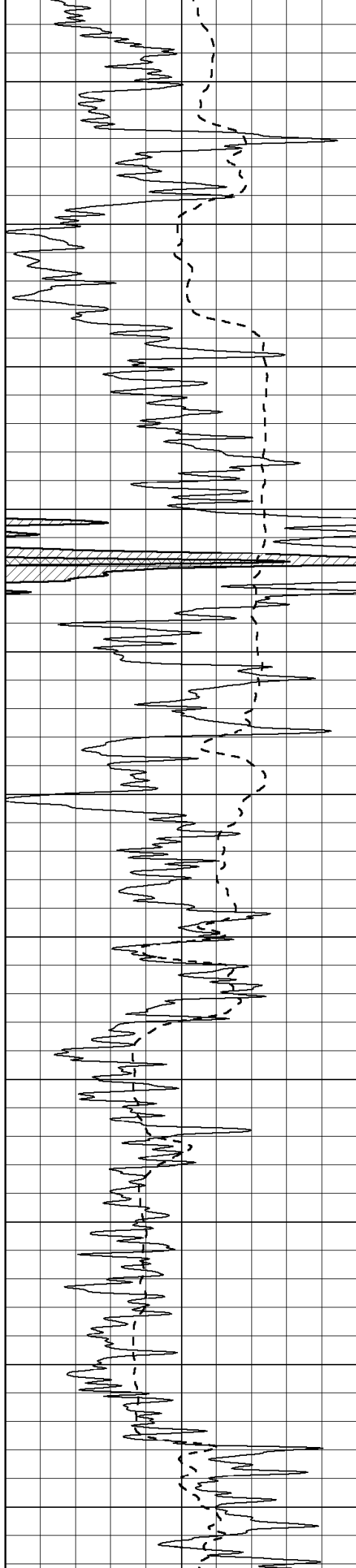
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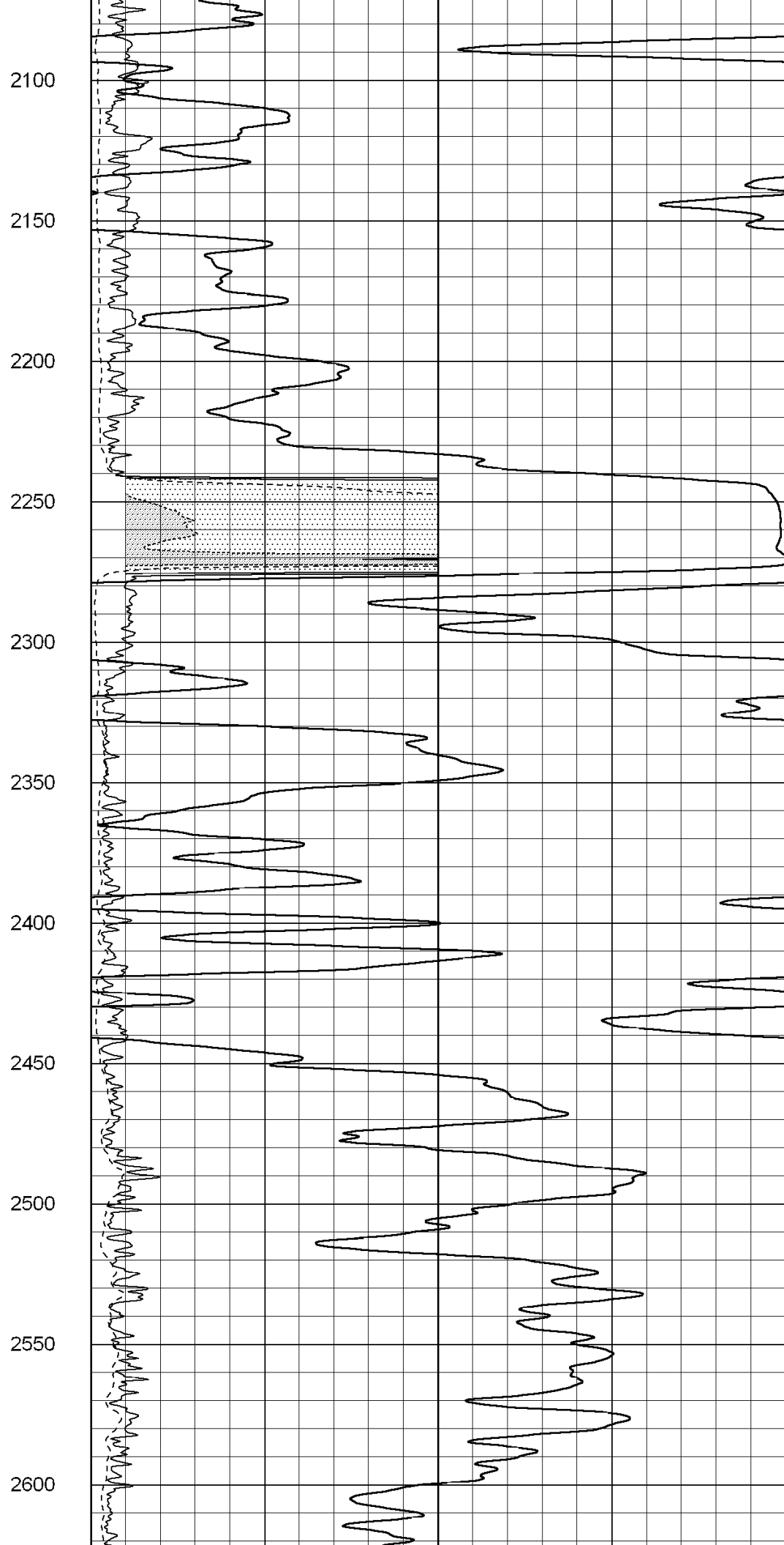
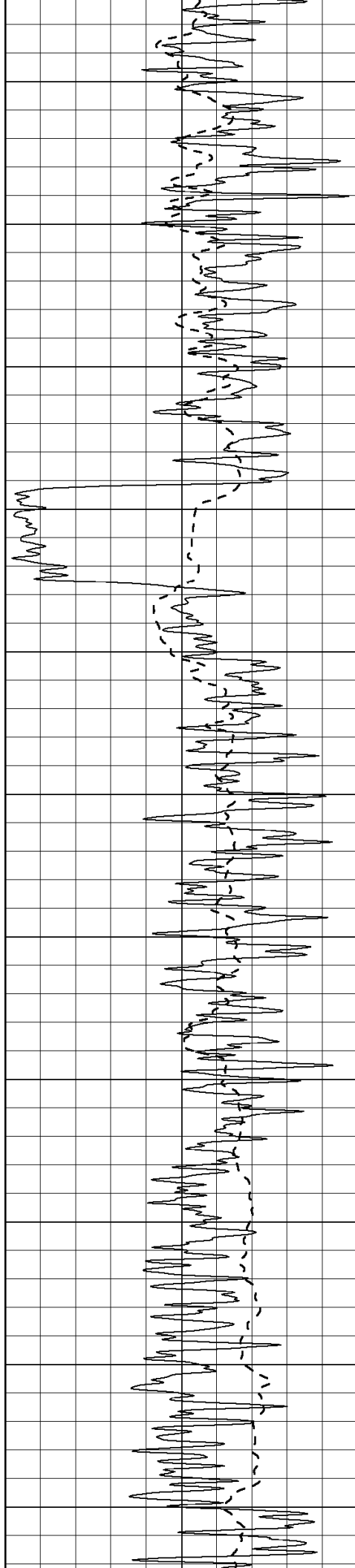
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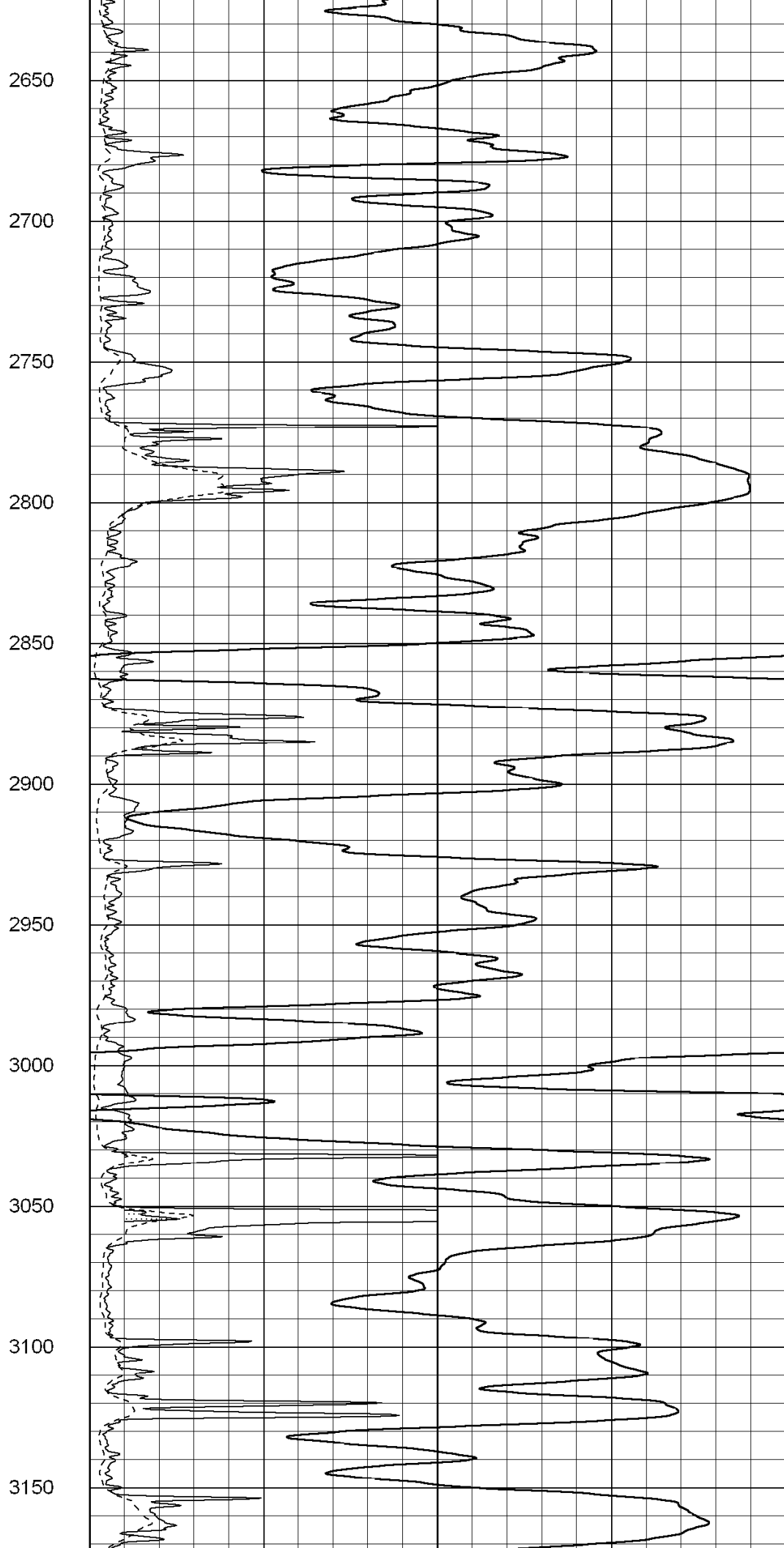
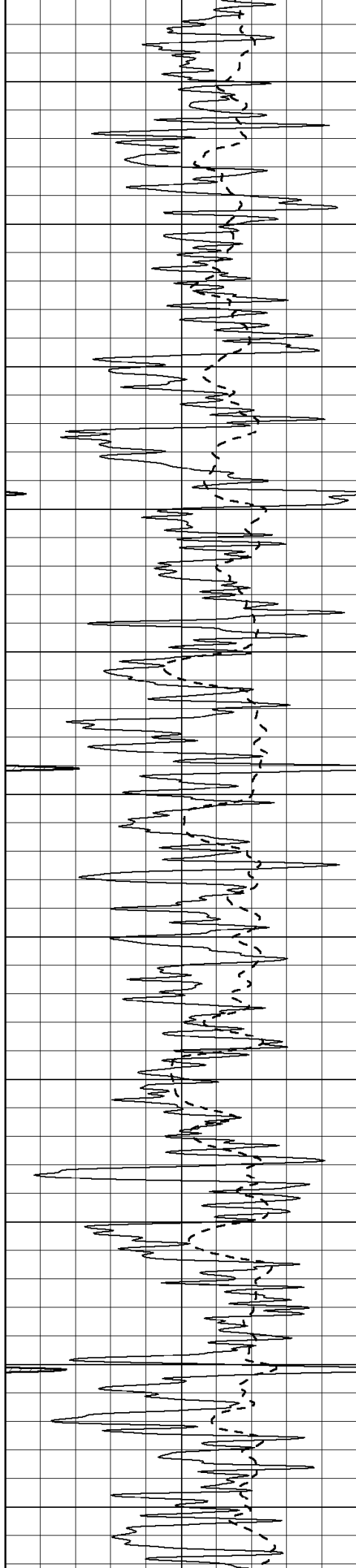
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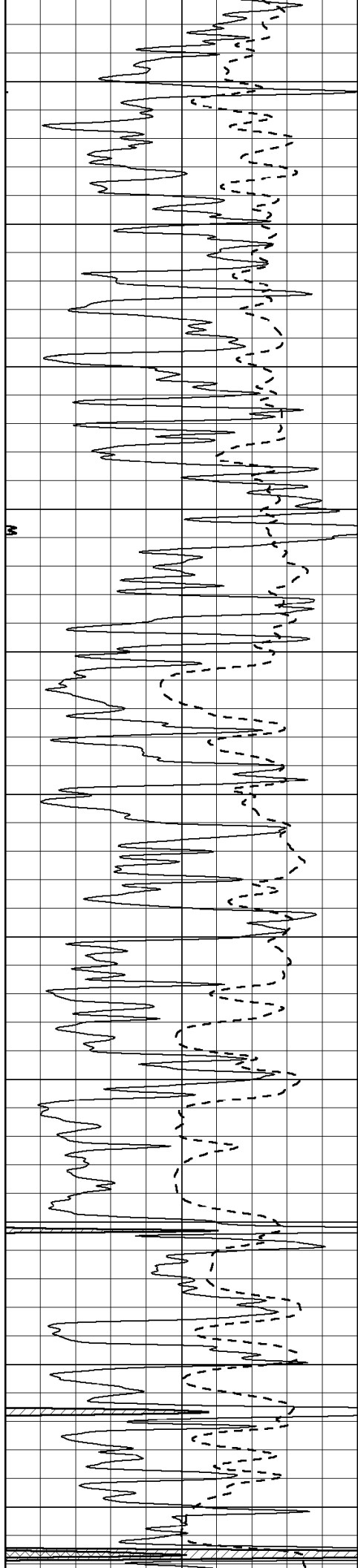
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3200

3250

3300

3350

3400

3450

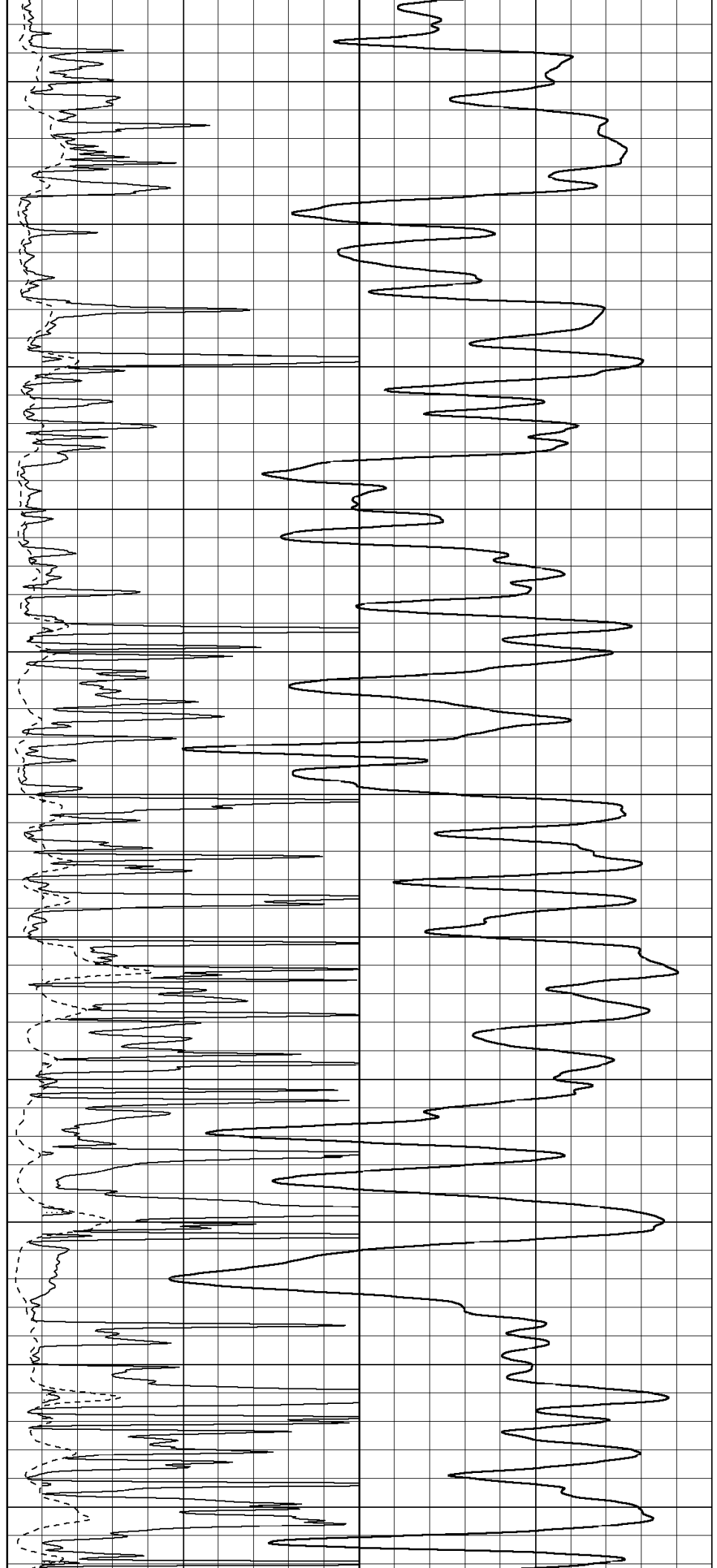
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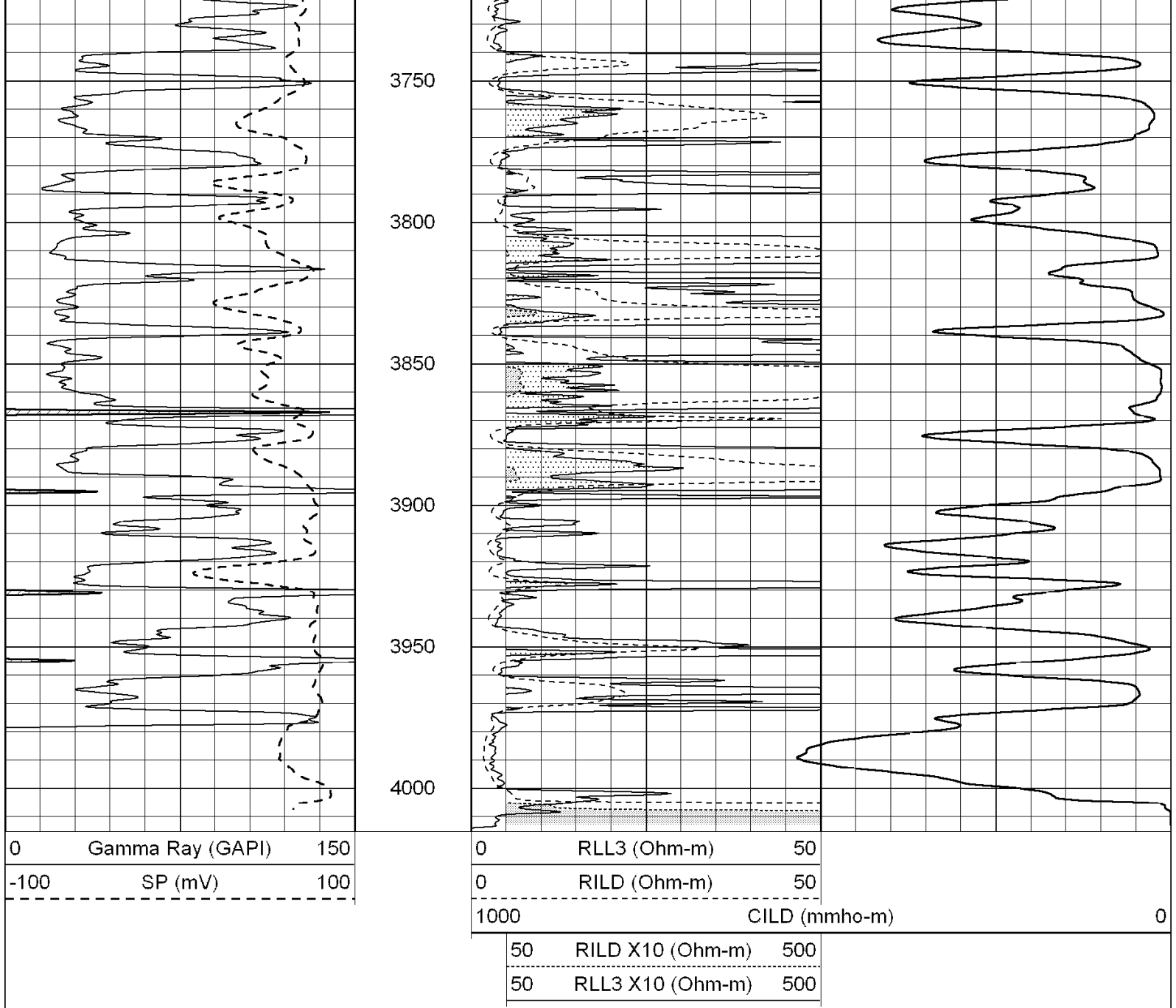
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3600

3650

3700





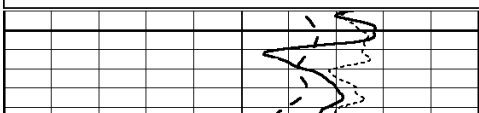
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ANHYDRITE

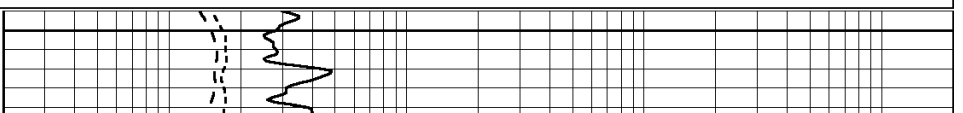
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Presentation Format: dil
Dataset Creation: Sun Dec 20 06:09:22 2009 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

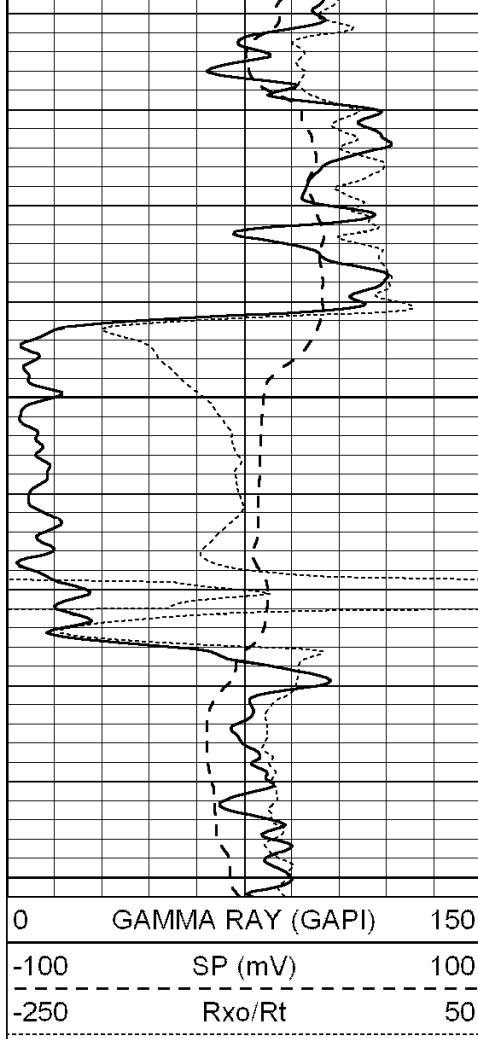
0 GAMMA RAY (GAPI) 150
-100 SP (mV) 100
-250 Rxo/Rt 50

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



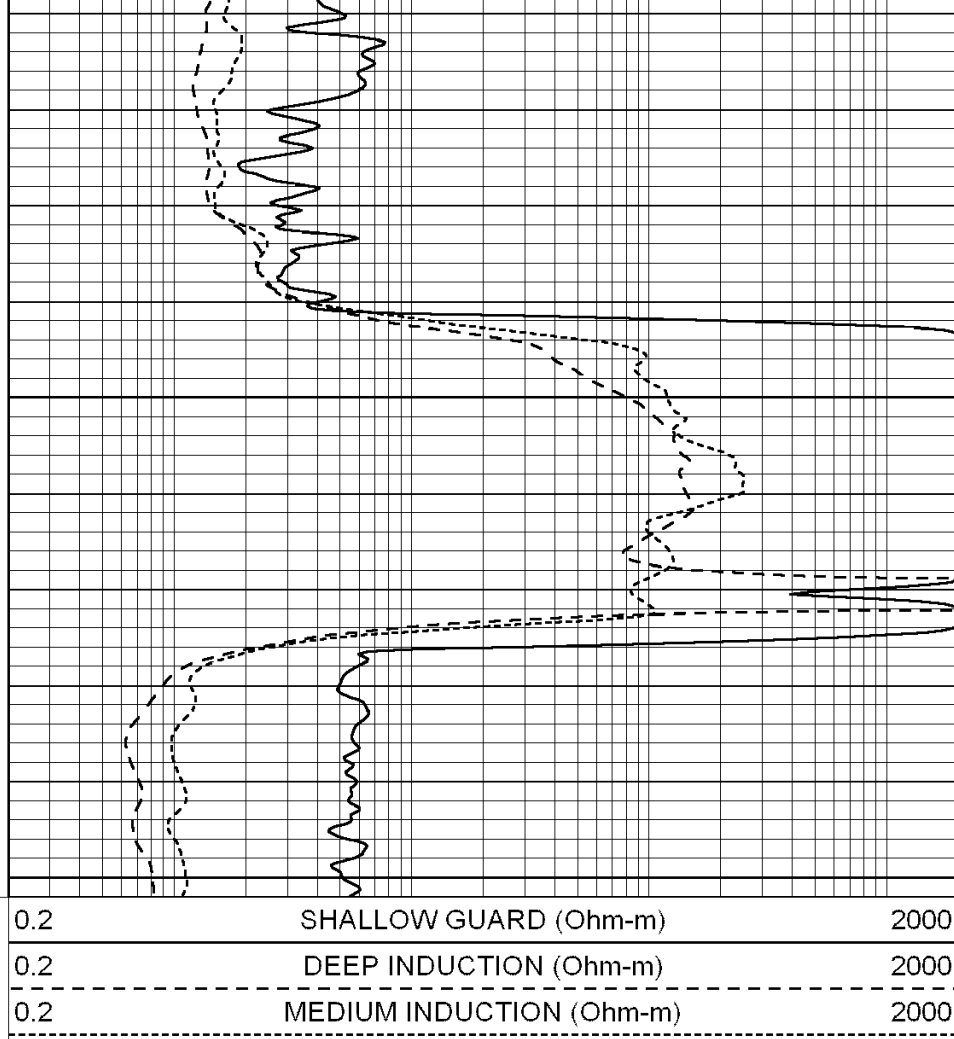
2200





2250

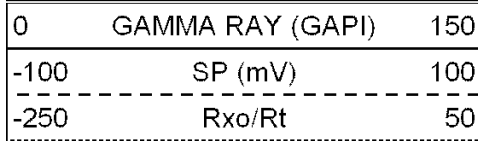
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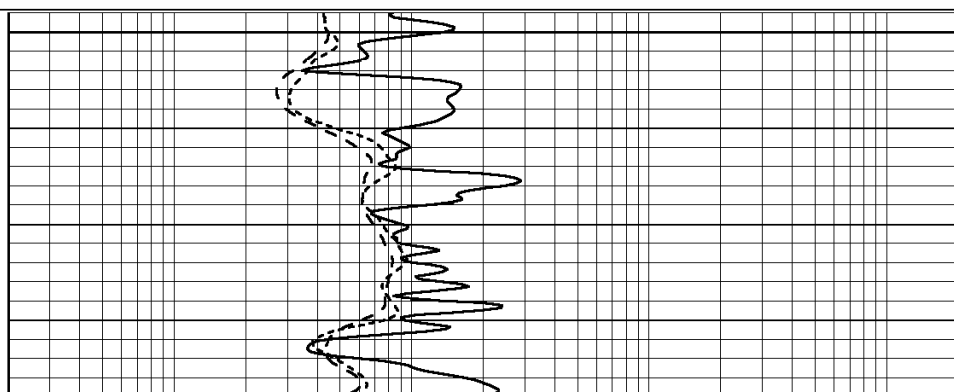
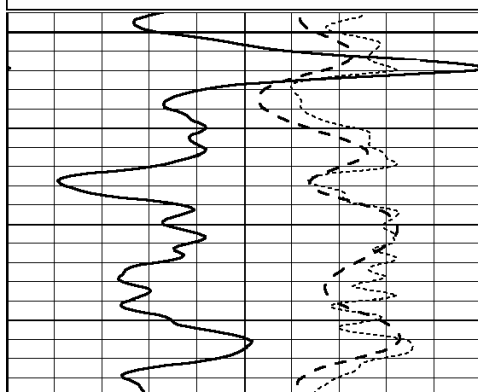
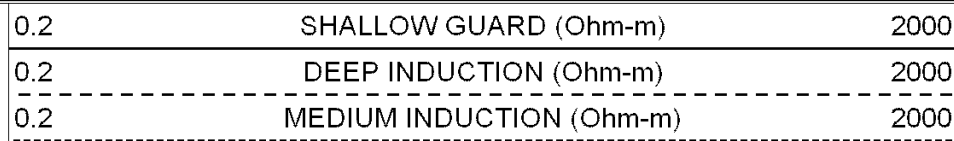
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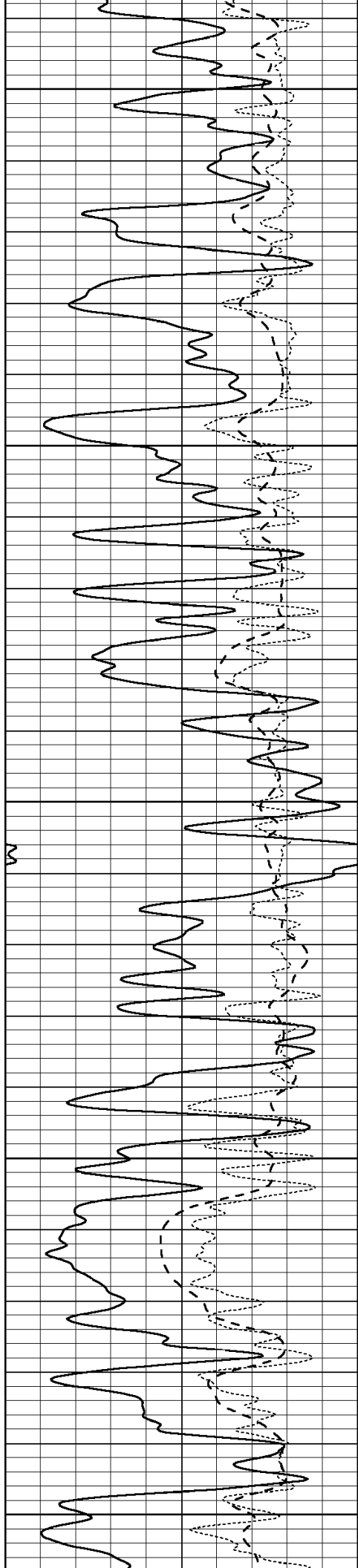
MAIN SECTION

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 Dataset Pathname: pass4.3
 Presentation Format: dil
 Dataset Creation: Sun Dec 20 06:09:02 2009 by Calc Open-Cased 060407
 Charted by: Depth in Feet scaled 1:240



3200





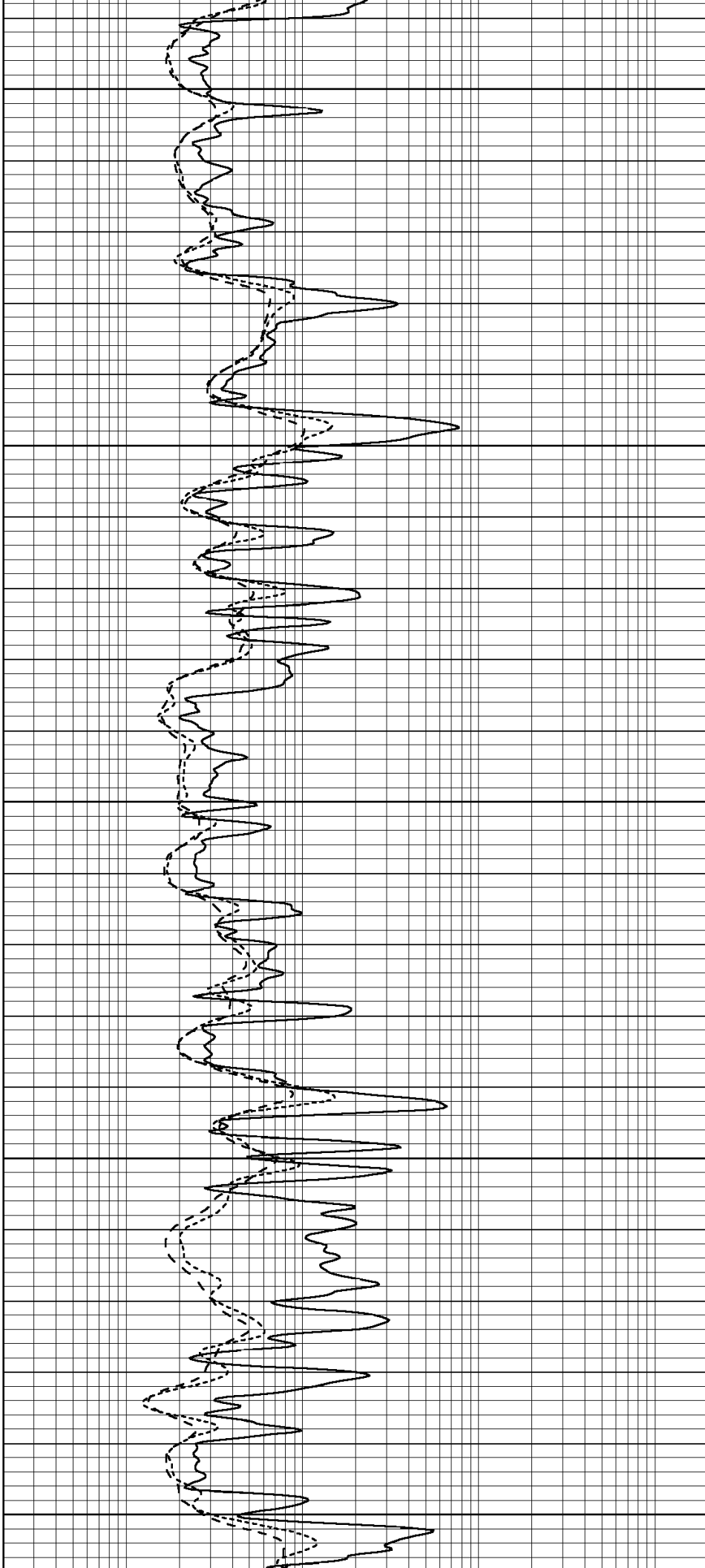
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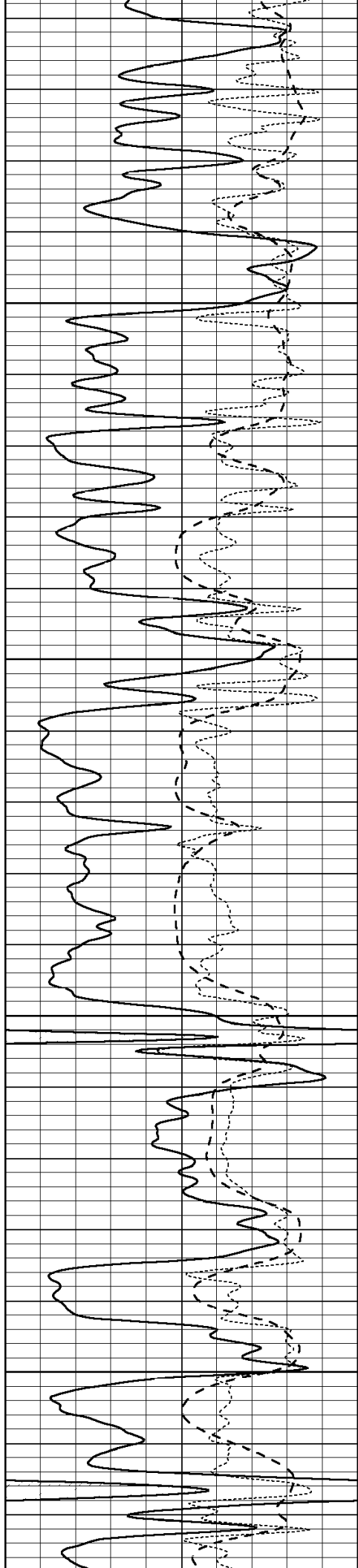
3300

3350

3400

3450



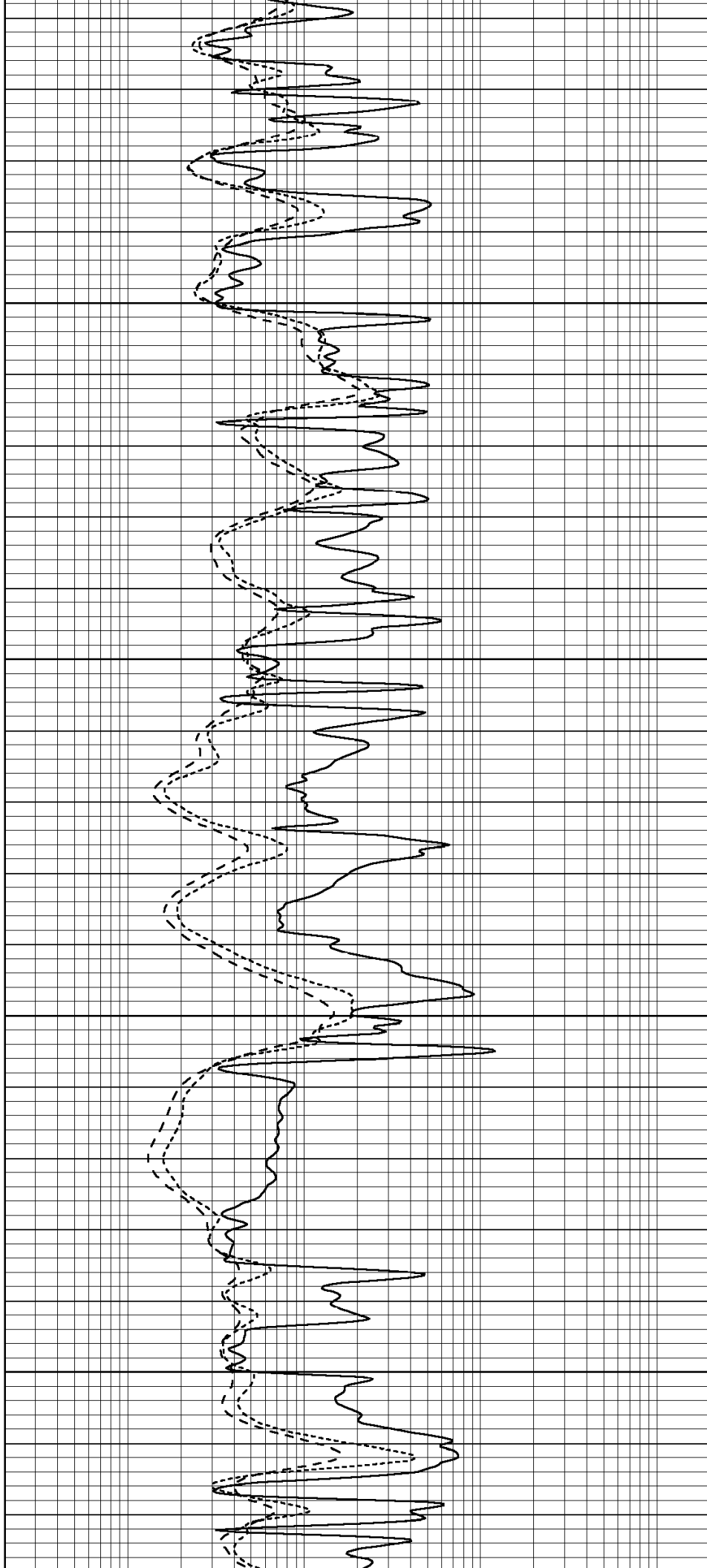


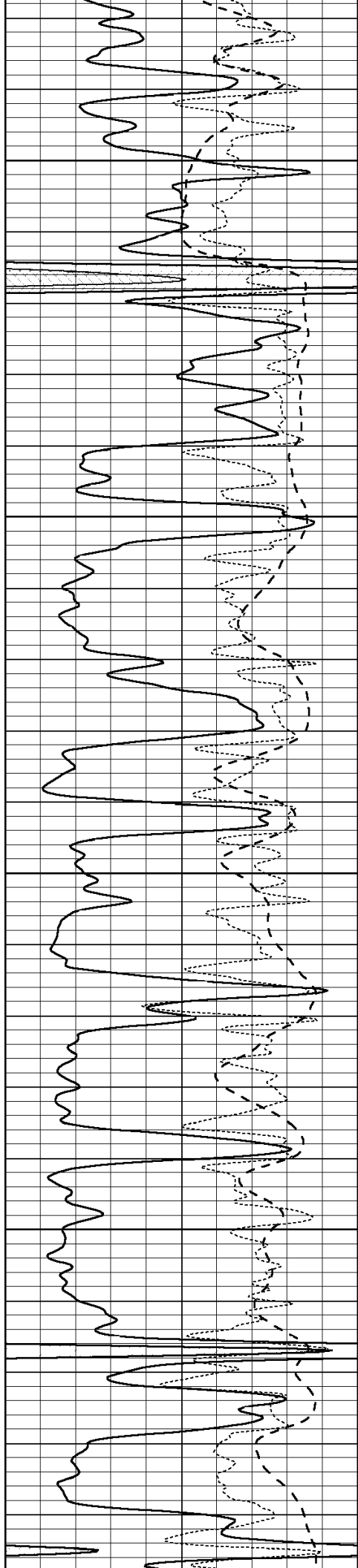
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3550

3600

3650



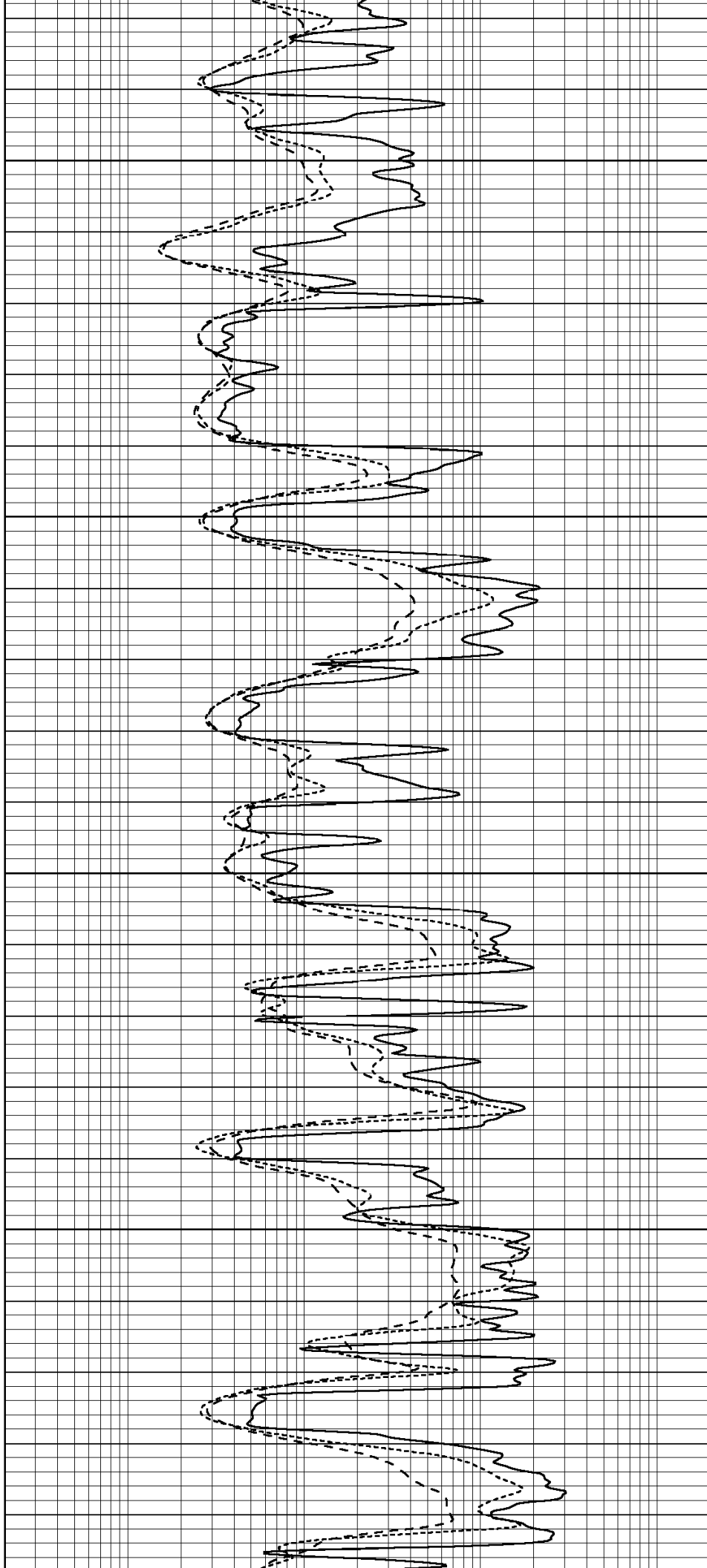


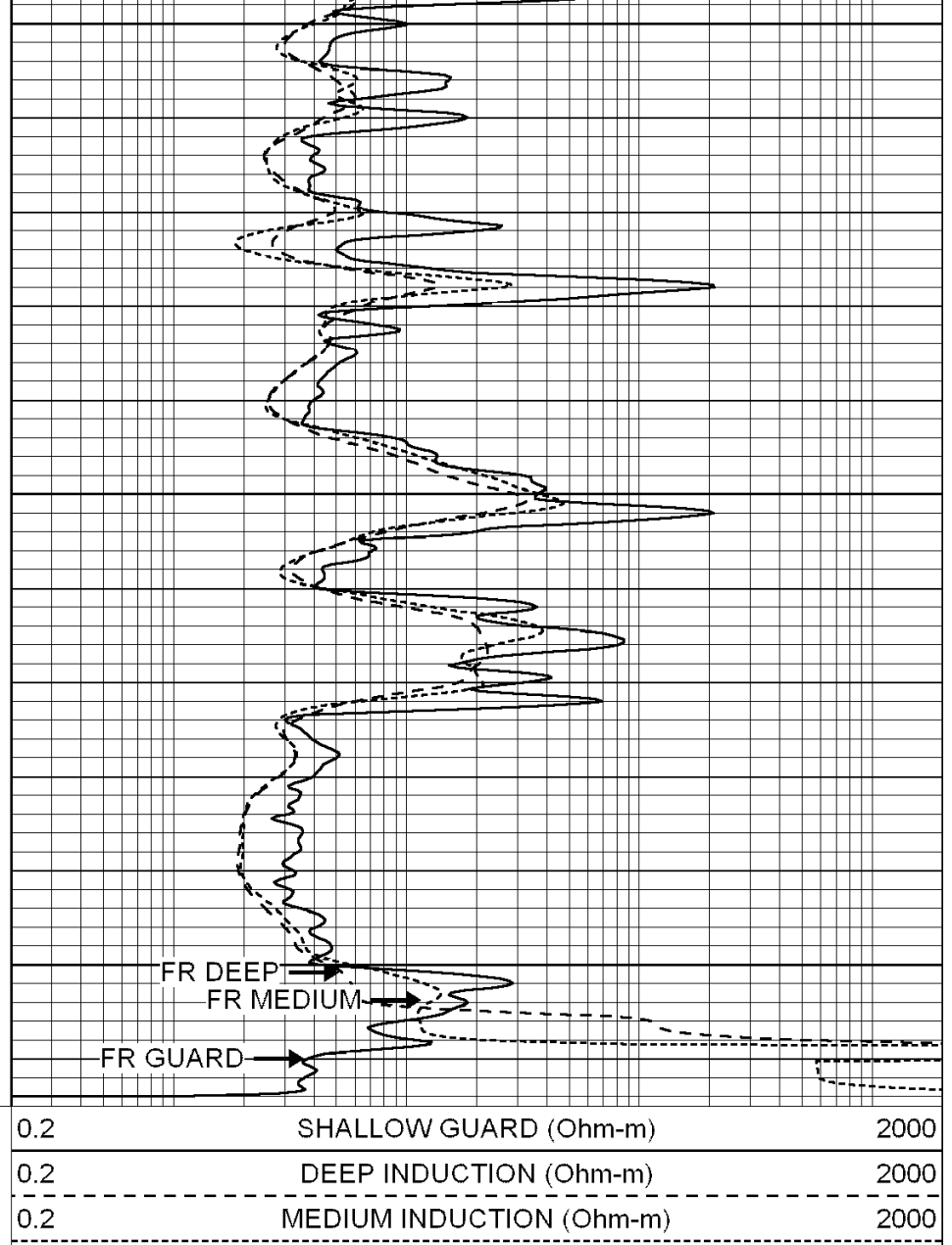
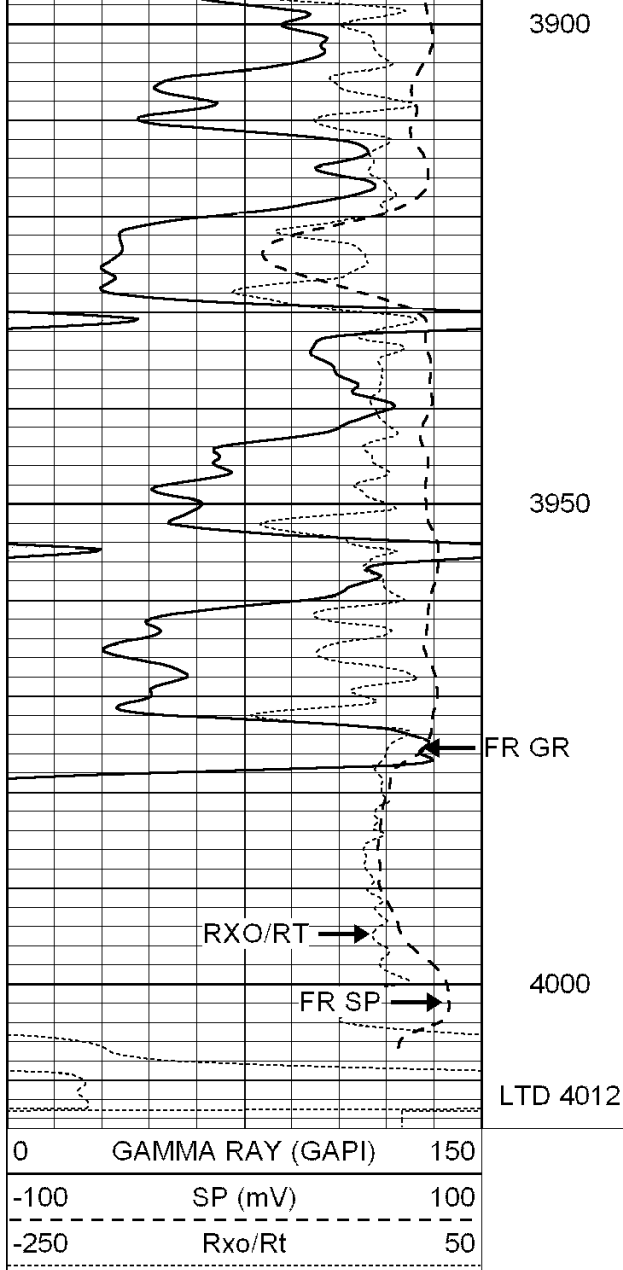
3700

3750

3800

3850





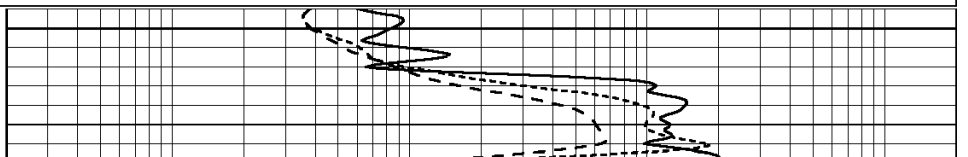
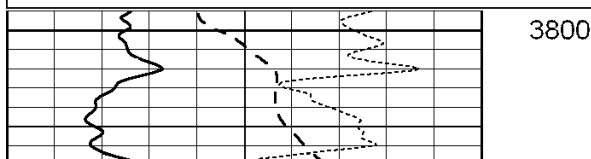
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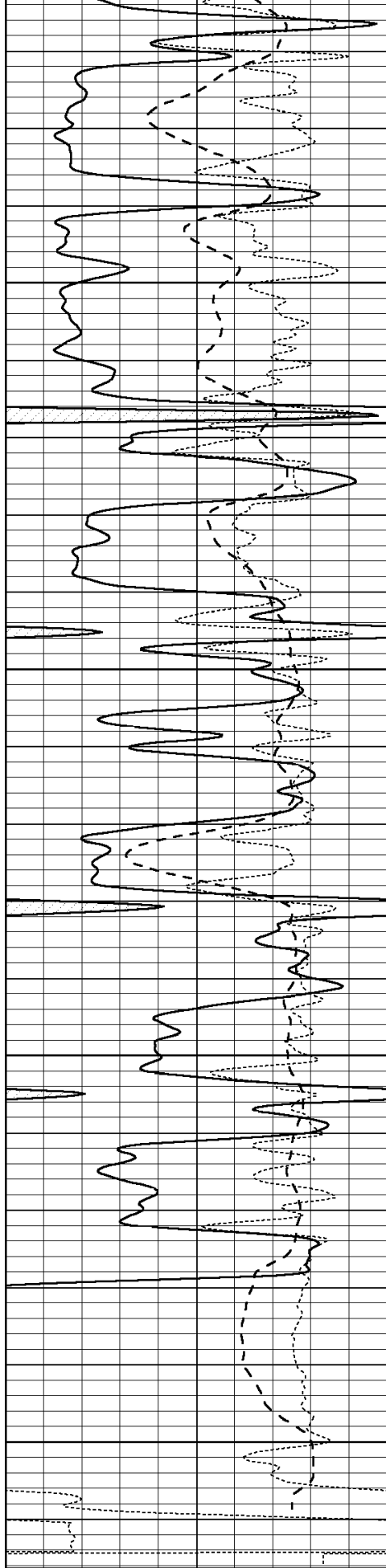
REPEAT SECTION

Database File: 004393ddn.db
 Dataset Pathname: pass3.3
 Presentation Format: dil
 Dataset Creation: Sun Dec 20 05:02:47 2009 by Calc Open-Cased 060407
 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	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000





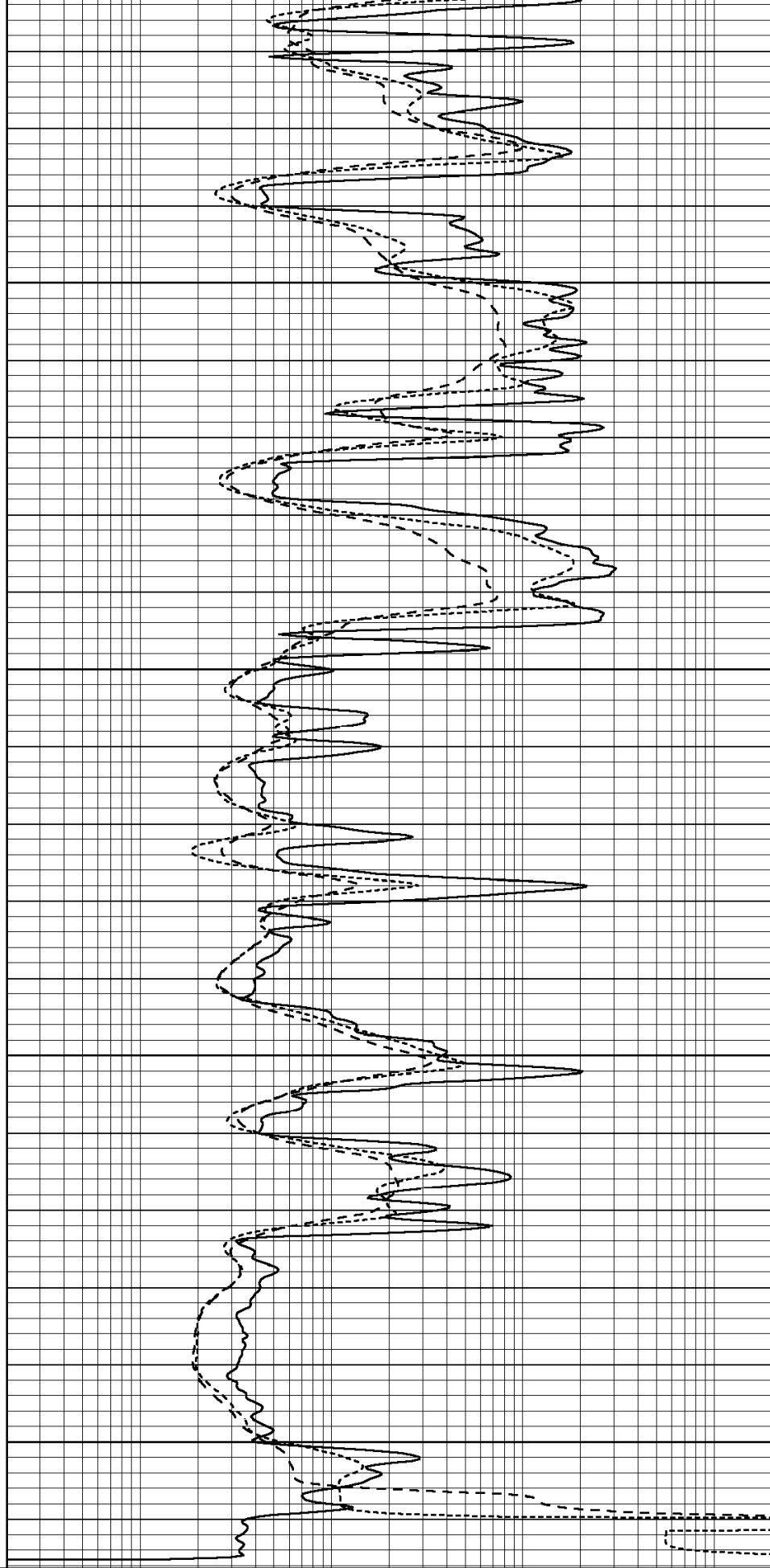
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

3850

3900

3950

4000



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:	004393ddn.db
Dataset Pathname:	pass4.3
Dataset Creation:	Sun Dec 20 06:09:02 2009 by Calc Open-Cased 060407

Dual Induction Calibration Report

Serial-Model:	DIL3-GEAR
Performed:	Sun Dec 20 04:58:35 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho-m	640.000	0.000
Medium	0.013	0.740	V	0.000	462.500	mmho-m	700.000	-13.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho-m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho-m	631.393	-4.555

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		
Low Ref	Readings	Reference
High Ref	1.8	7.8
	4.2	14.0
	Gain: 2.6	Offset: 3.0

Compensated Neutron Calibration Report

Serial Number:	NEU_3I
Tool Model:	G

CALIBRATION						
Detector	Readings		Target		Normalization	
Short Space	997.00	cps	1000.00	cps	1.0000	
Long Space	986.00	cps	1000.00	cps	1.0000	

Gamma Ray Calibration Report

Serial Number:	GR3
Tool Model:	OPEN

Performed: Sun Dec 20 04:38:46 2009

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps

Calibrator Reading: 186.0 cps

Sensitivity: 0.6500 GAPI/cps