



SUPERIOR
Hays,
Kansas

**DUAL INDUCTION
LOG**

Company ETERNITY EXPLORATION, LLC.
Well WILLSON WF #1
Field WILLSON
County SHERIDAN
State KANSAS

Company ETERNITY EXPLORATION, LLC.
Well WILLSON WF #1
Field WILLSON
County SHERIDAN State KANSAS

Location: API # : 15-179-21286-0000
4950' FSL & 330' FEL
SEC 14 TWP 10S RGE 26W

Permanent Datum GROUND LEVEL Elevation 2575
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
Elevation
K.B. 2580
D.F. 2578
G.L. 2575

Date	8/22/11
Run Number	ONE
Depth Driller	4109
Depth Logger	4110
Bottom Logged Interval	4108
Top Log Interval	00
Casing Driller	8 5/8"@219'
Casing Logger	219
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.1/54
pH / Fluid Loss	11.5/7.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.600@99F
Rmt @ Meas. Temp	.450@99F
Rmc @ Meas. Temp	.720@99F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.508@117F
Time Circulation Stopped	2.5 HOURS
Time Logger on Bottom	2:00 P.M.
Maximum Recorded Temperature	117F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	SCOTT ALBERG
	CARLO UGOLINI

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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
COLLYER, KS. W. ON OLD 40 TO "RD. 78", 9N. TO "INTERSECTION OF 140 & 120", 1/8W., S. INTO



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MAIN SECTION

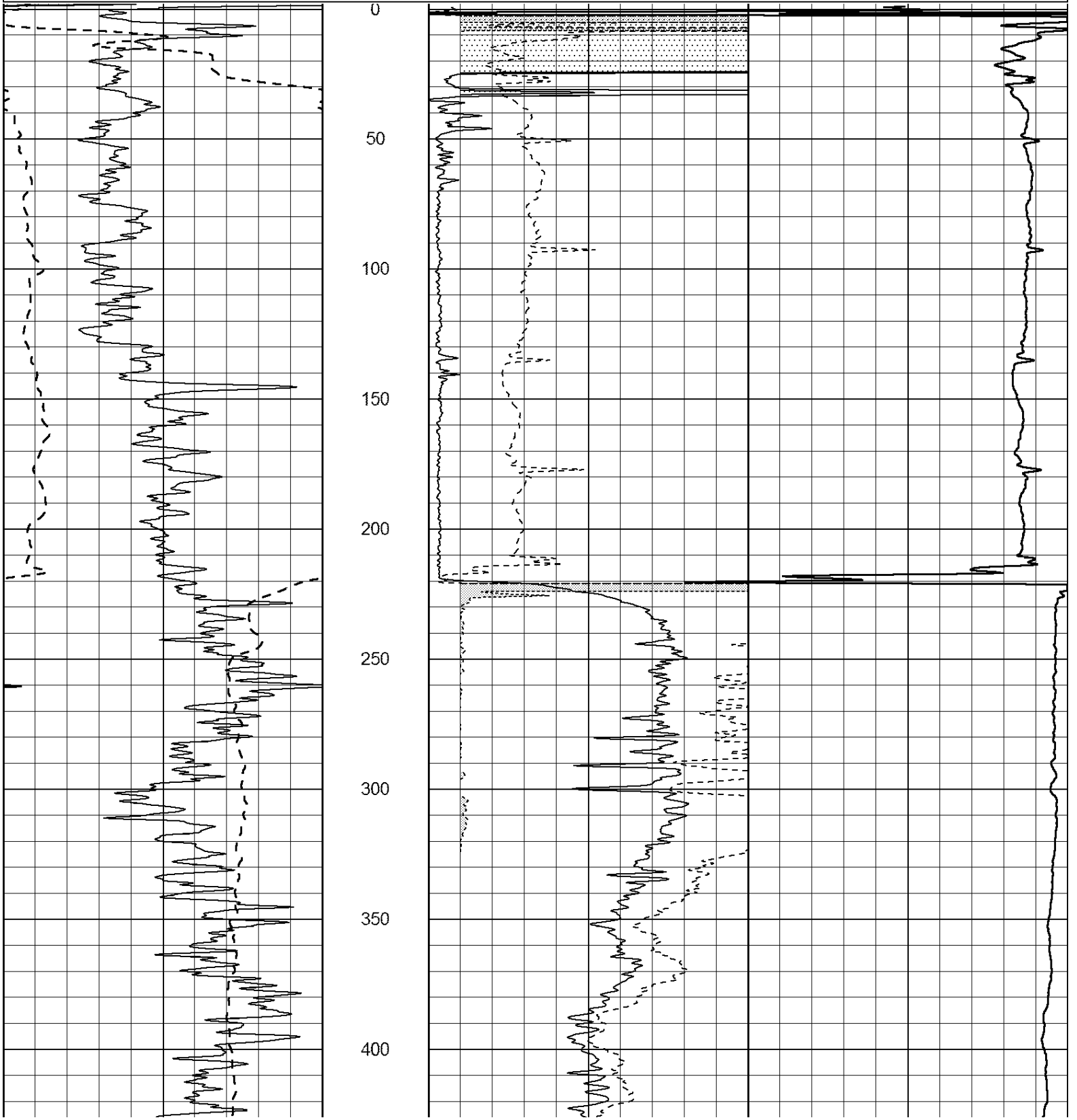
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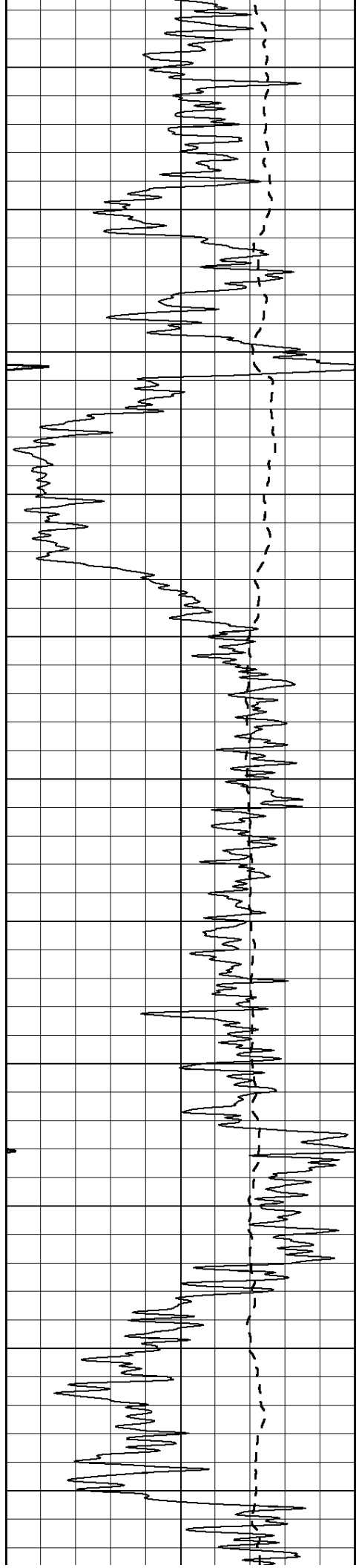
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-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
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





450

500

550

600

650

700

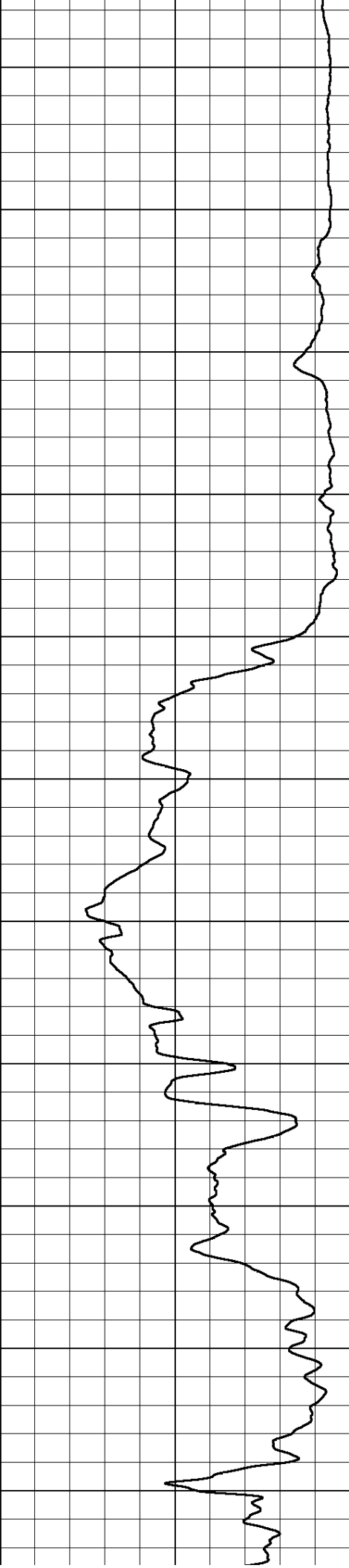
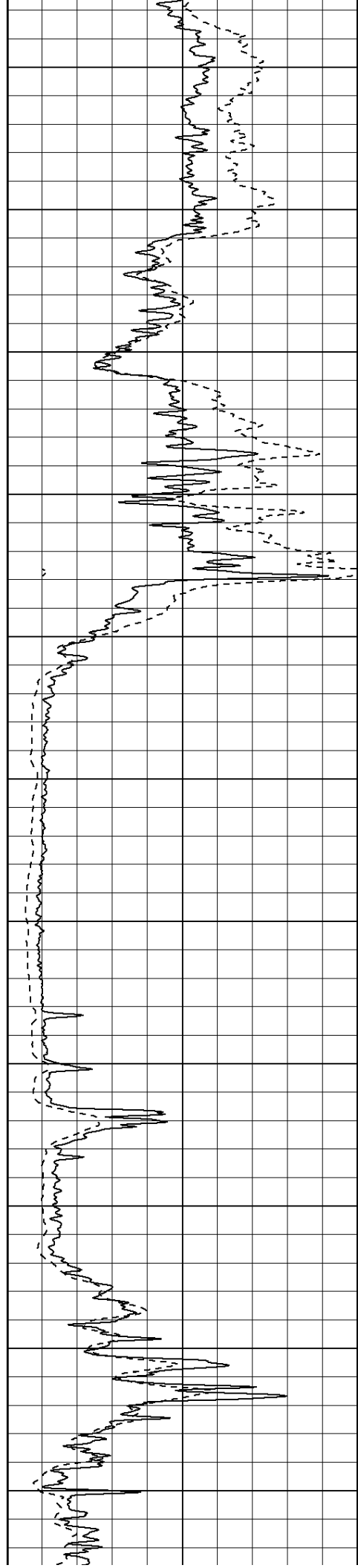
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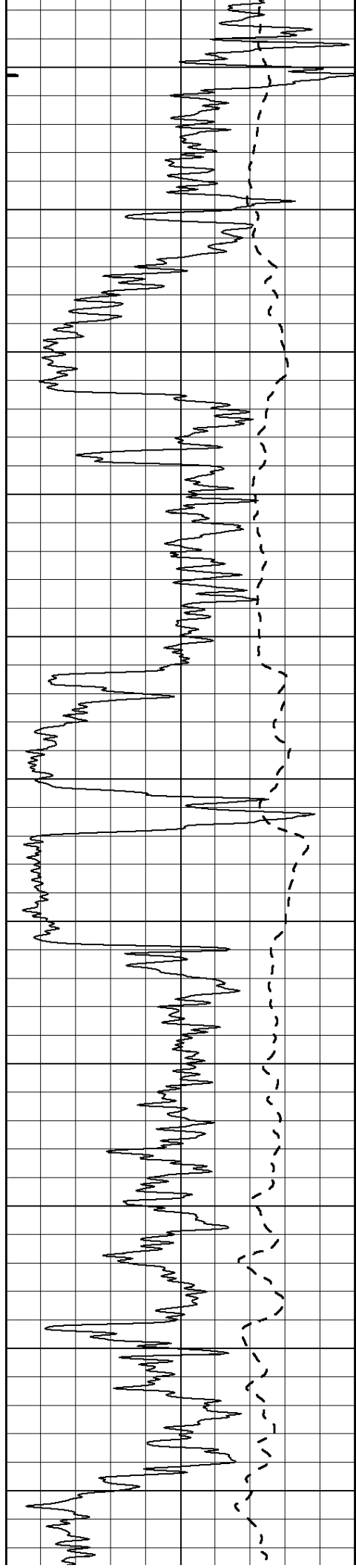
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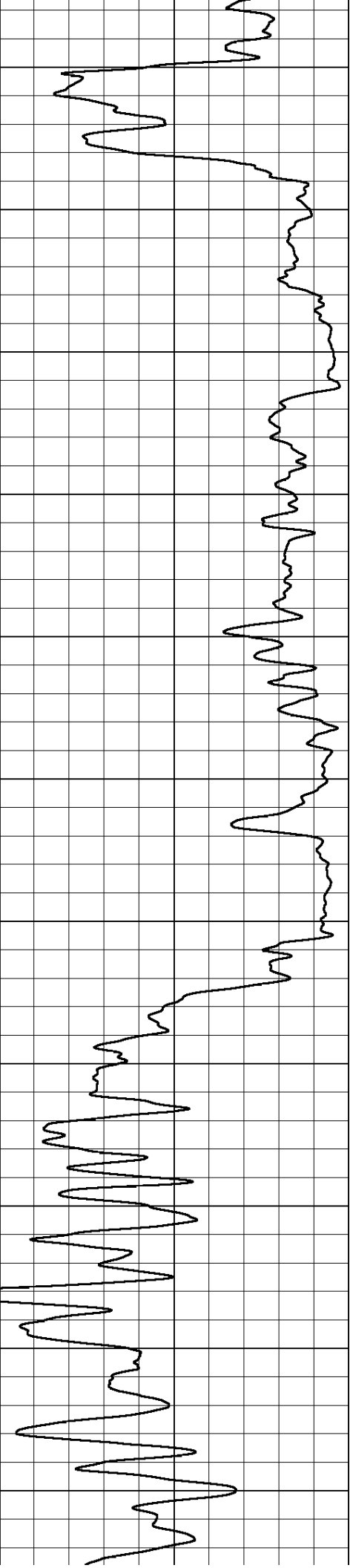
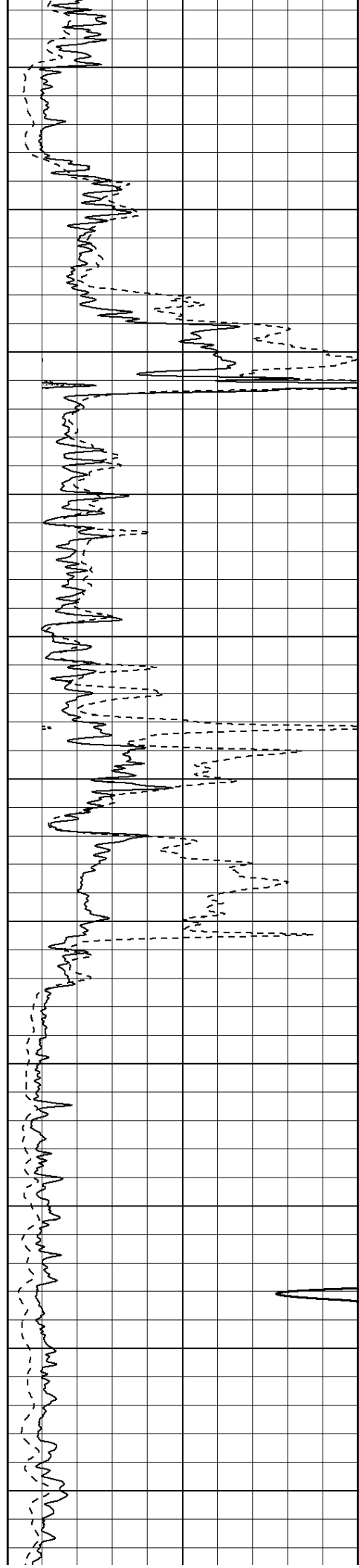
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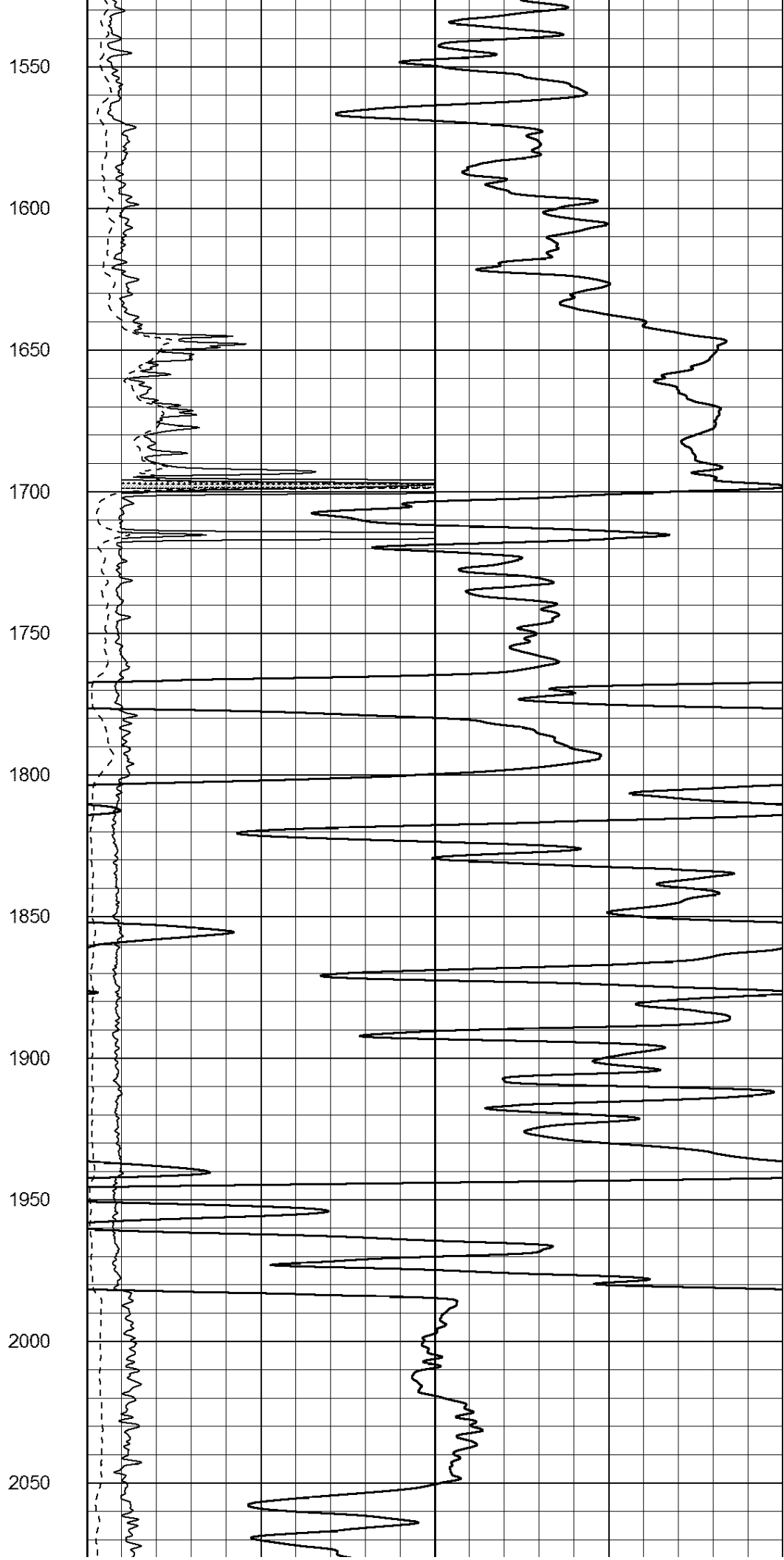
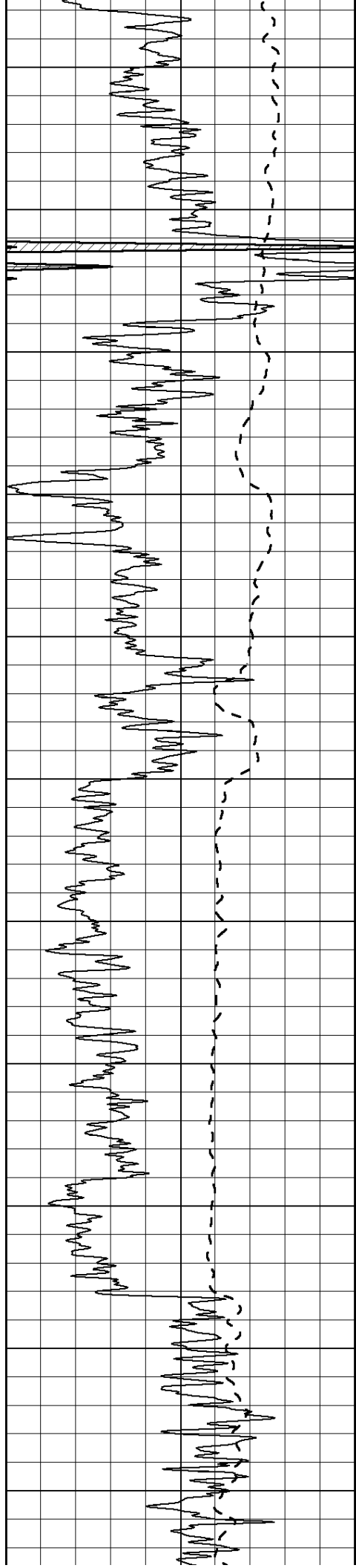
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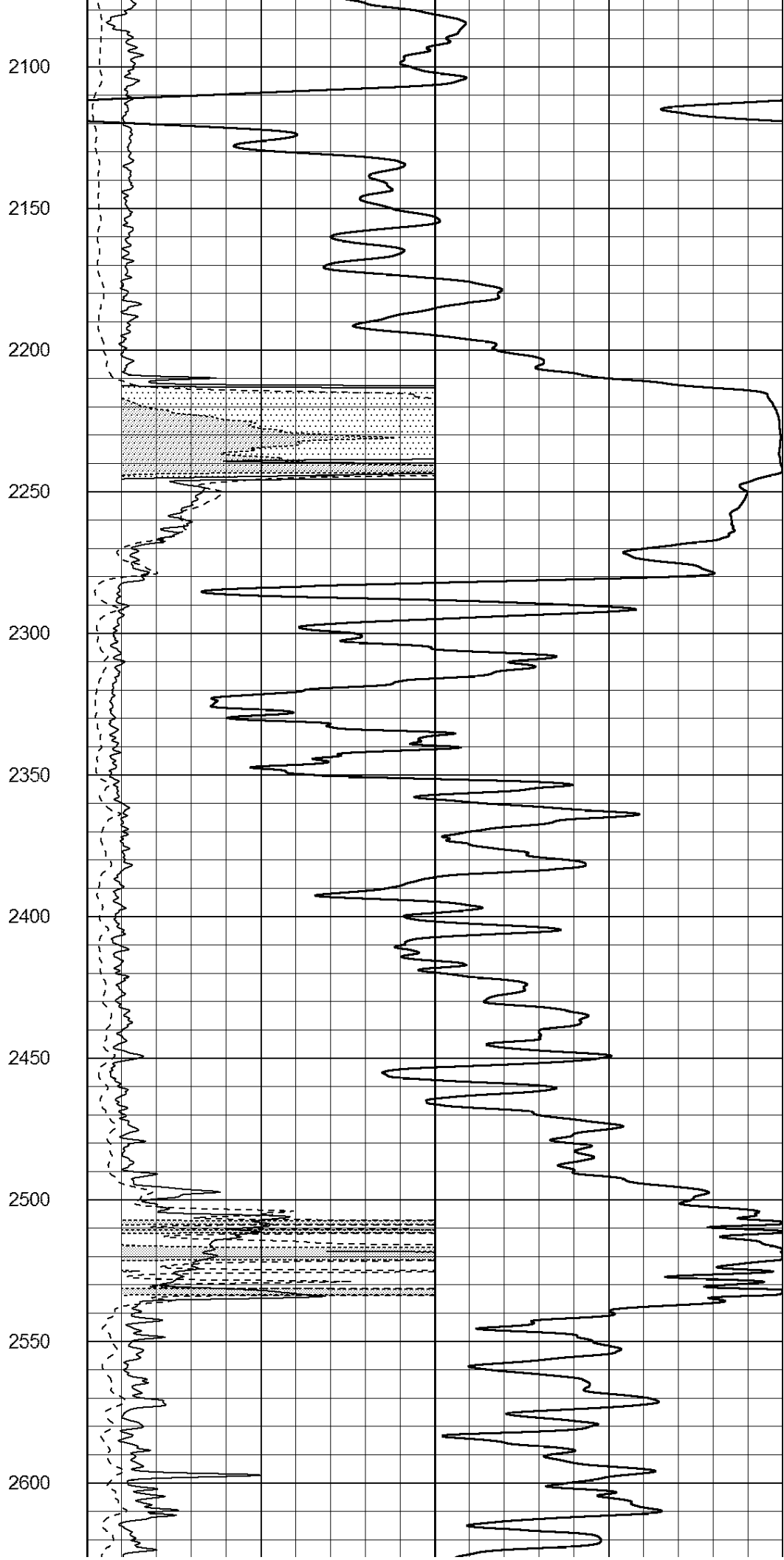
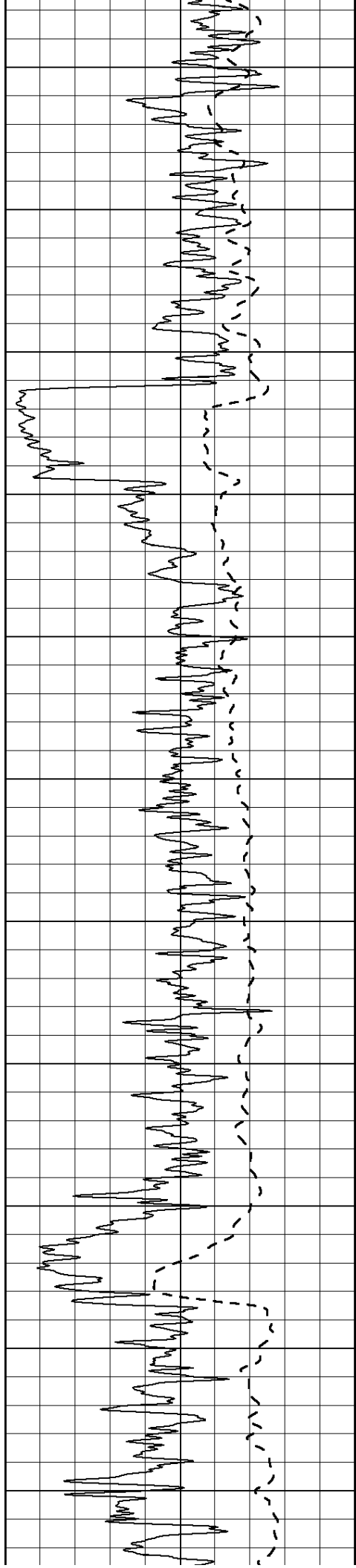


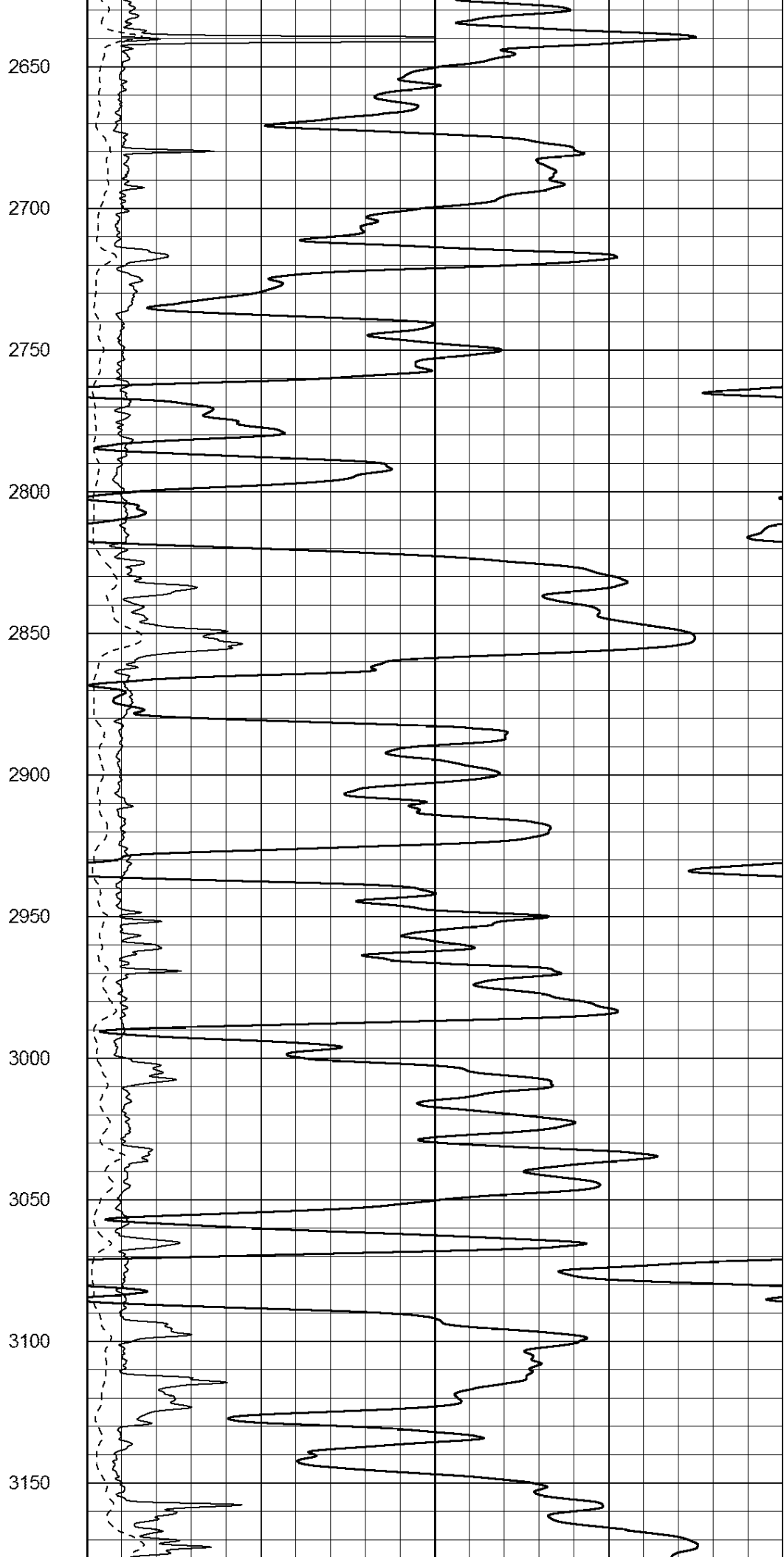
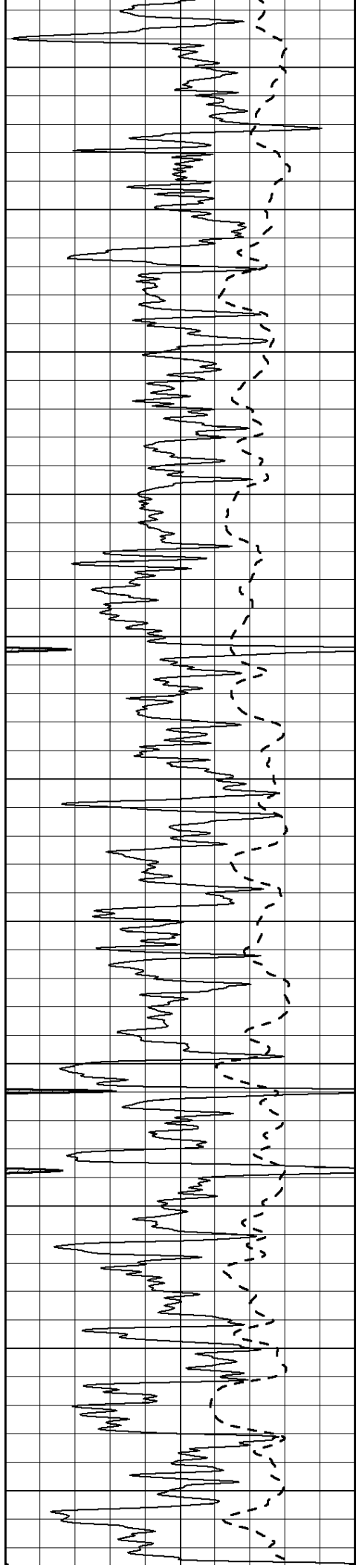


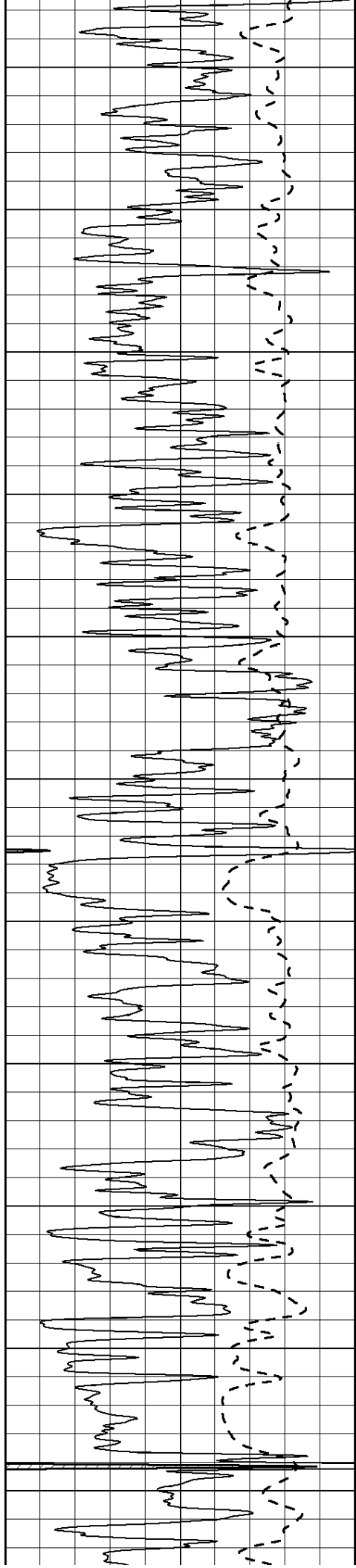
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1050
1100
1150
1200
1250
1300
1350
1400
1450
1500











3200

3250

3300

3350

3400

3450

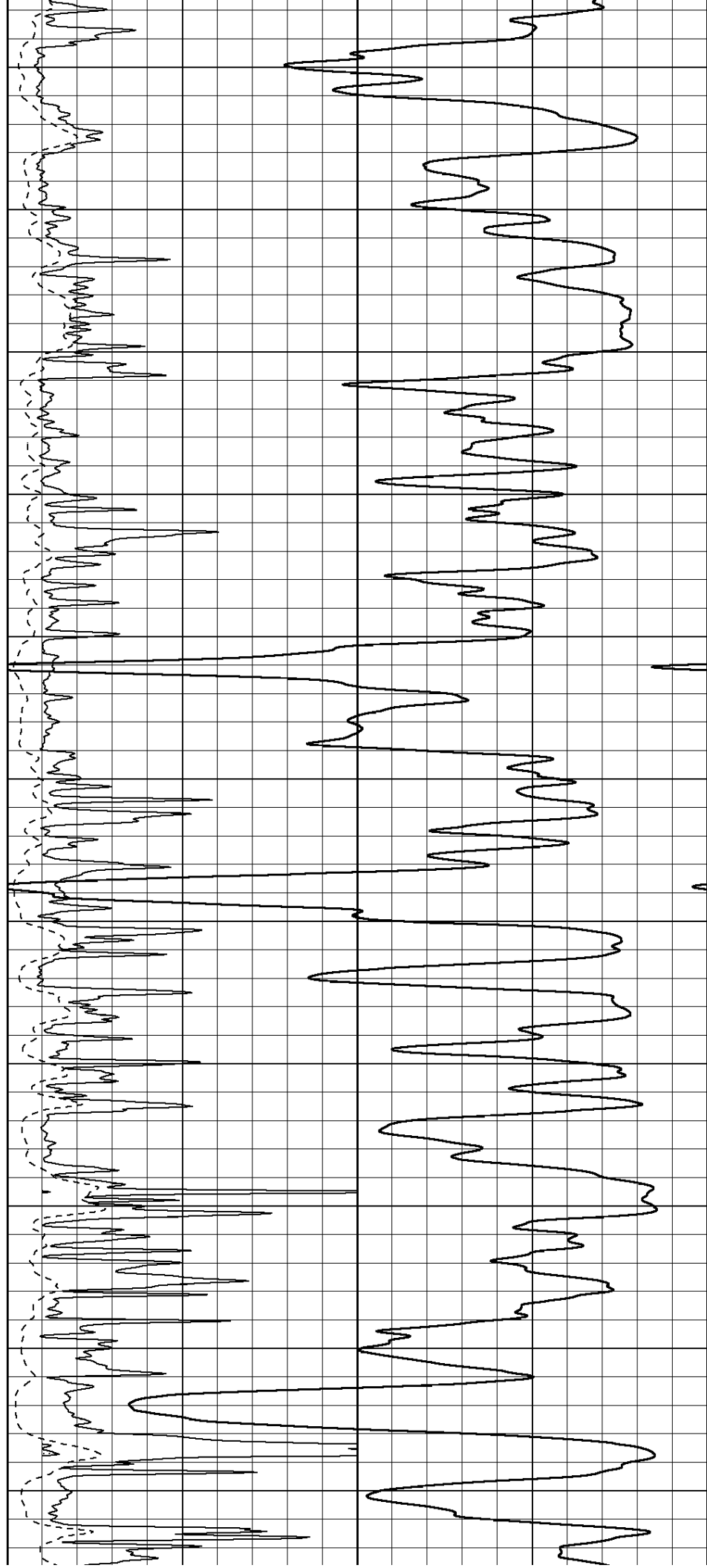
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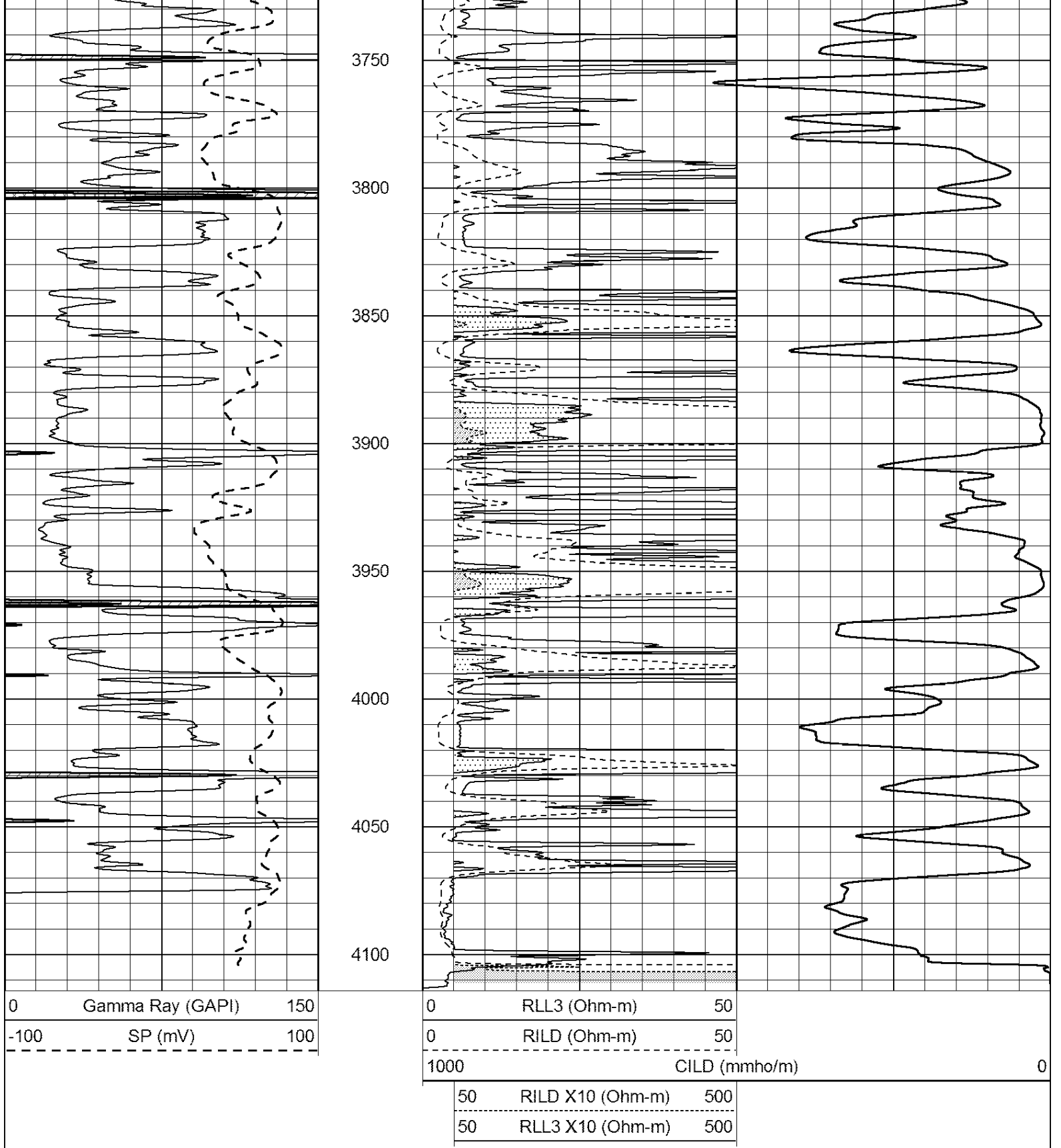
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3600

3650

3700





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ANHYDRITE

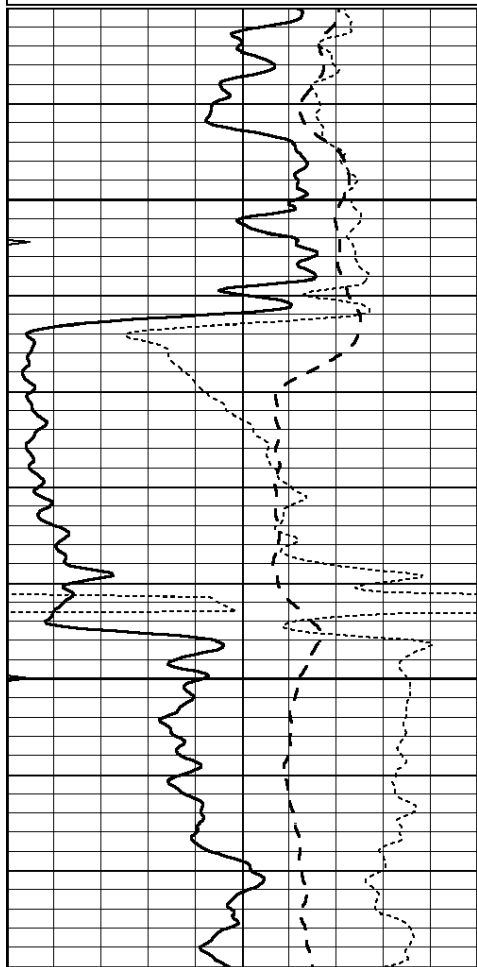
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Charted by:

Depth in Feet scaled 1:240

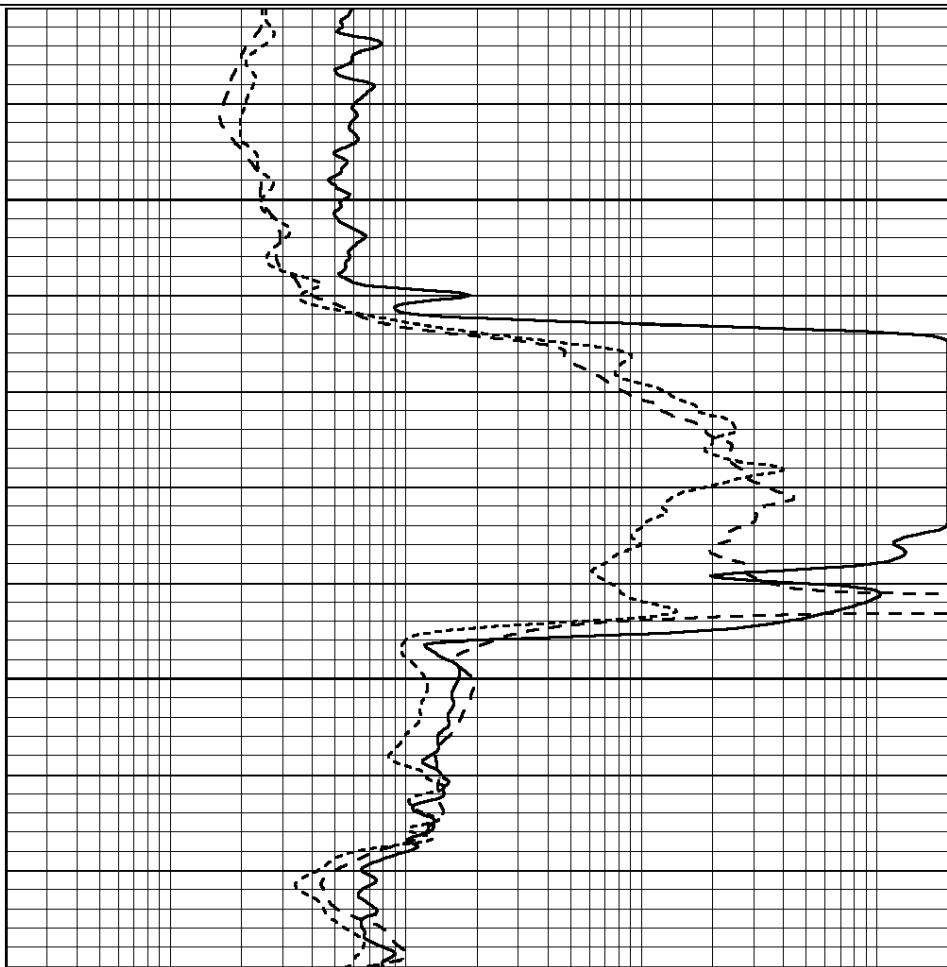
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



2200

2250



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



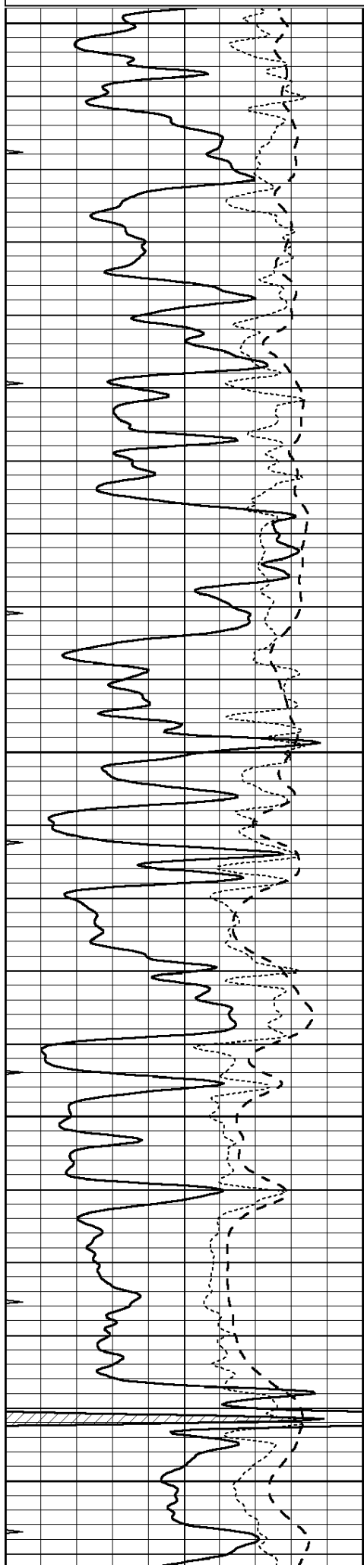
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MAIN SECTION

Database File: 007284ddn.db
 Dataset Pathname: pass3.7
 Presentation Format: dil
 Dataset Creation: Mon Aug 22 15:20:12 2011 by Calc Open-Cased 110302
 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



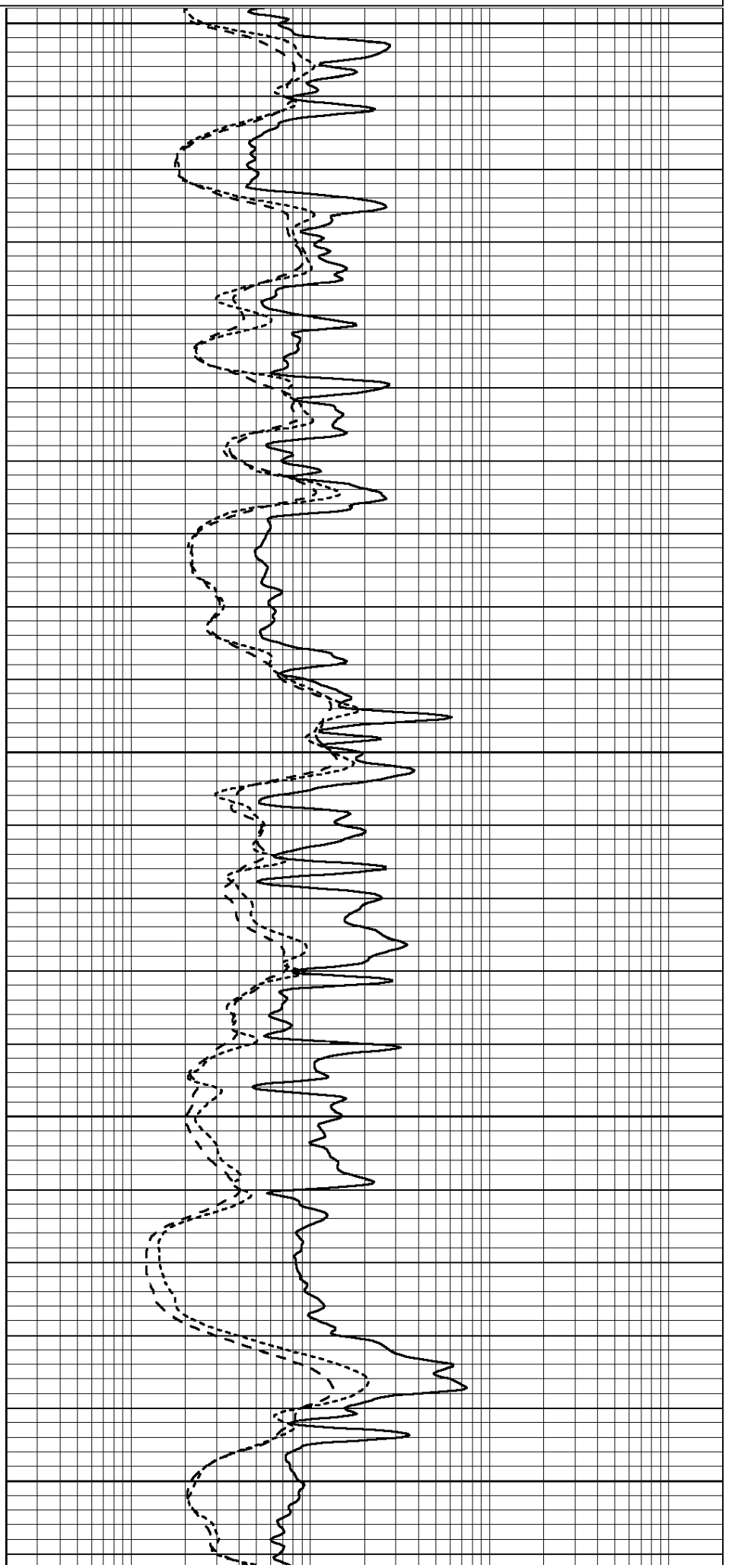
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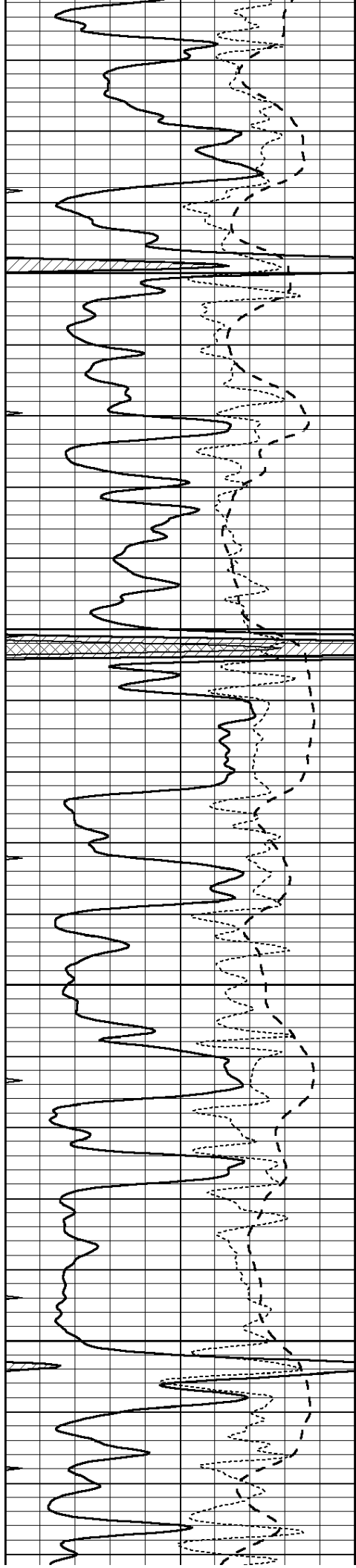
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3650

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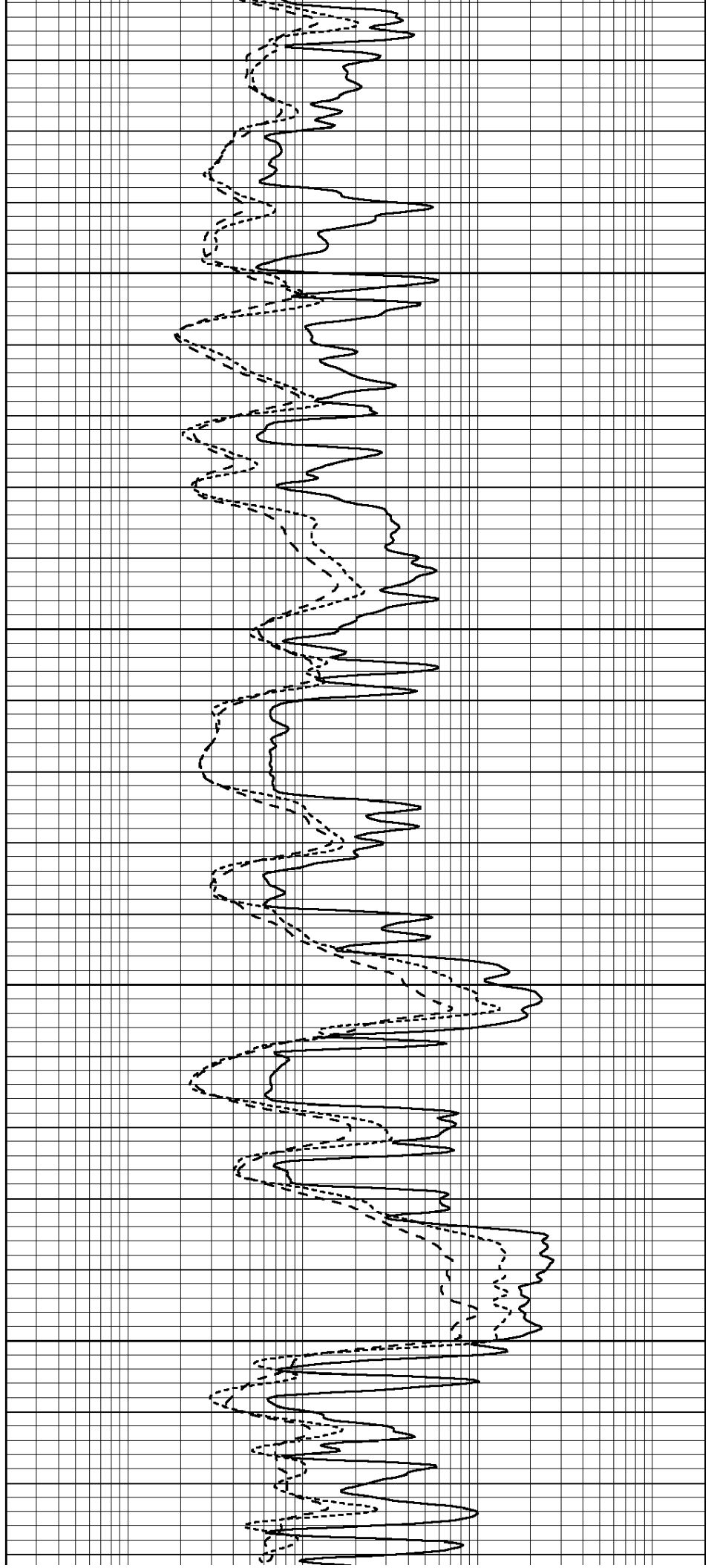


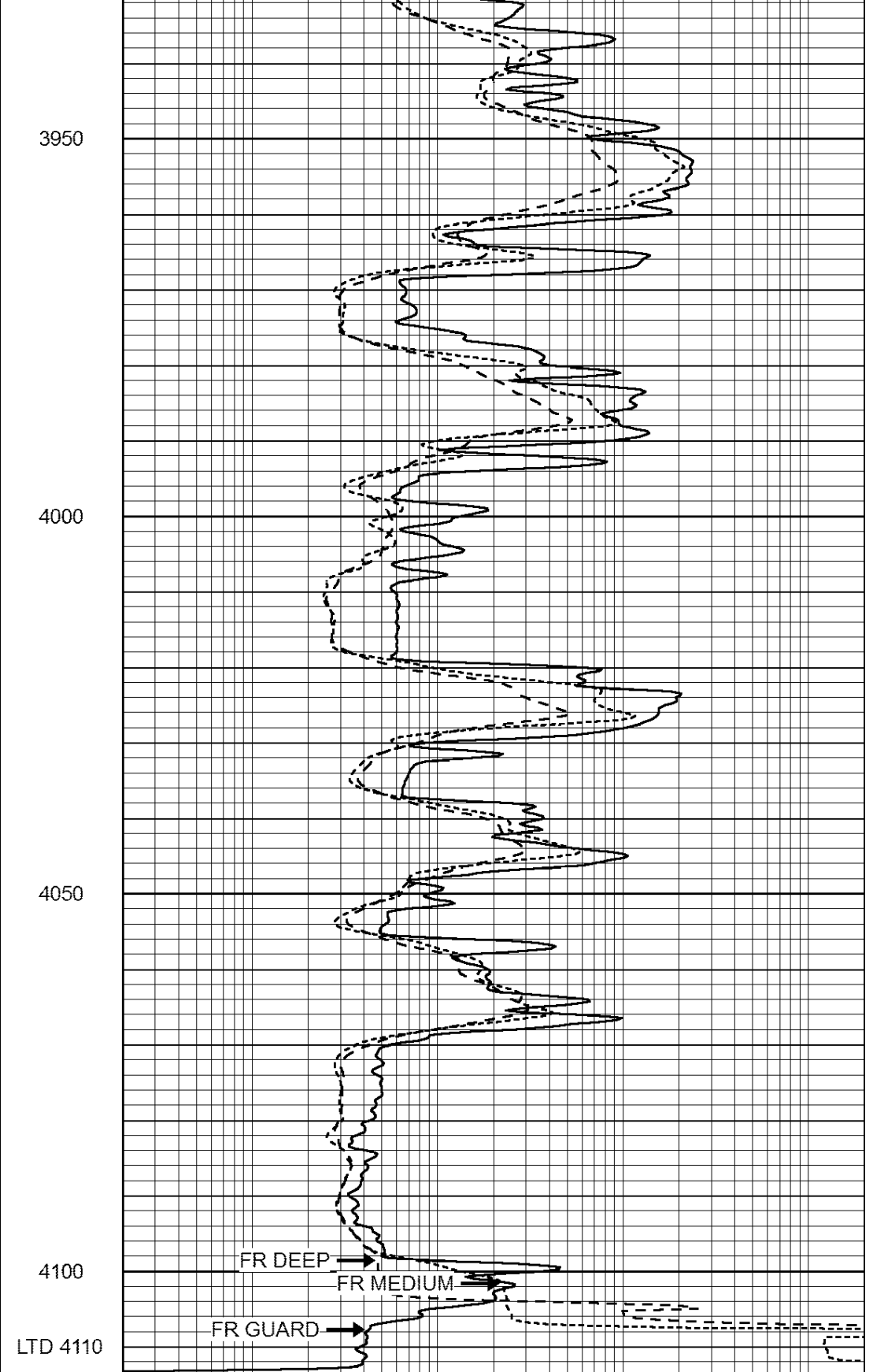
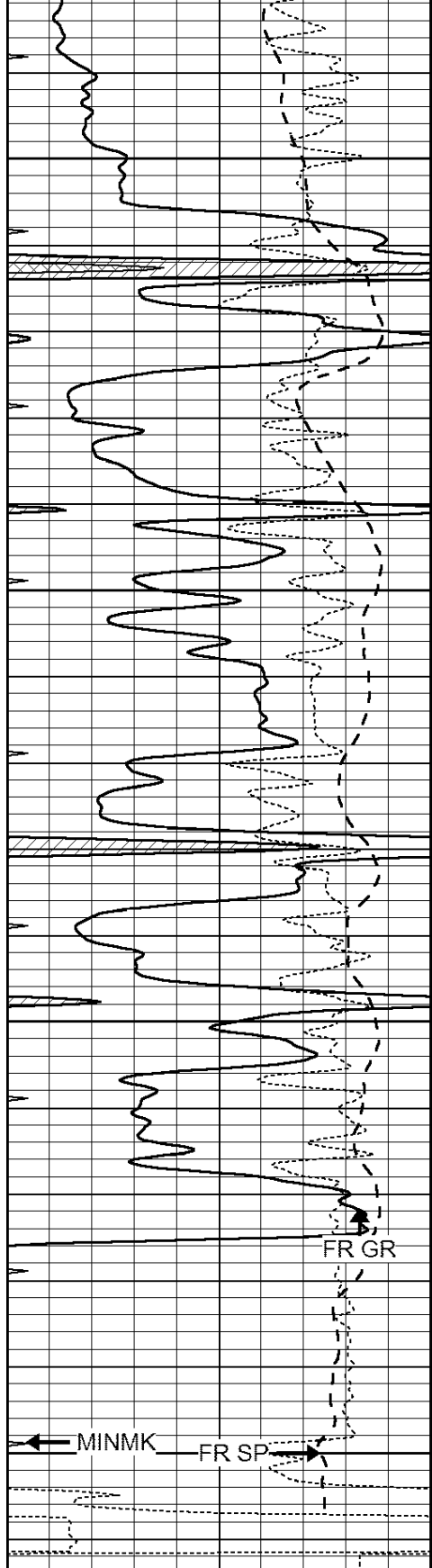
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3800

3850

3900





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



SUPERIOR

DEEP INDUCTION

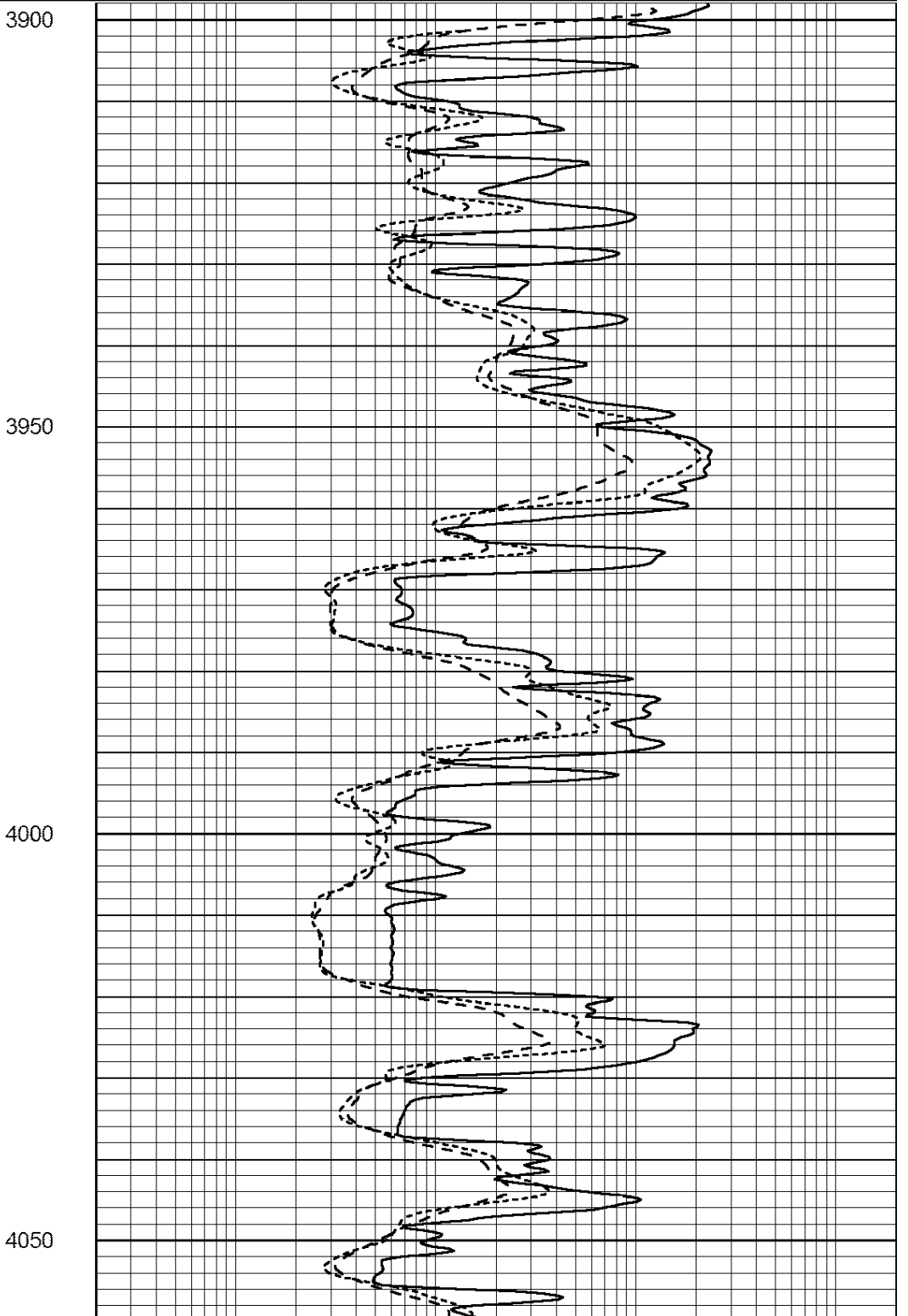
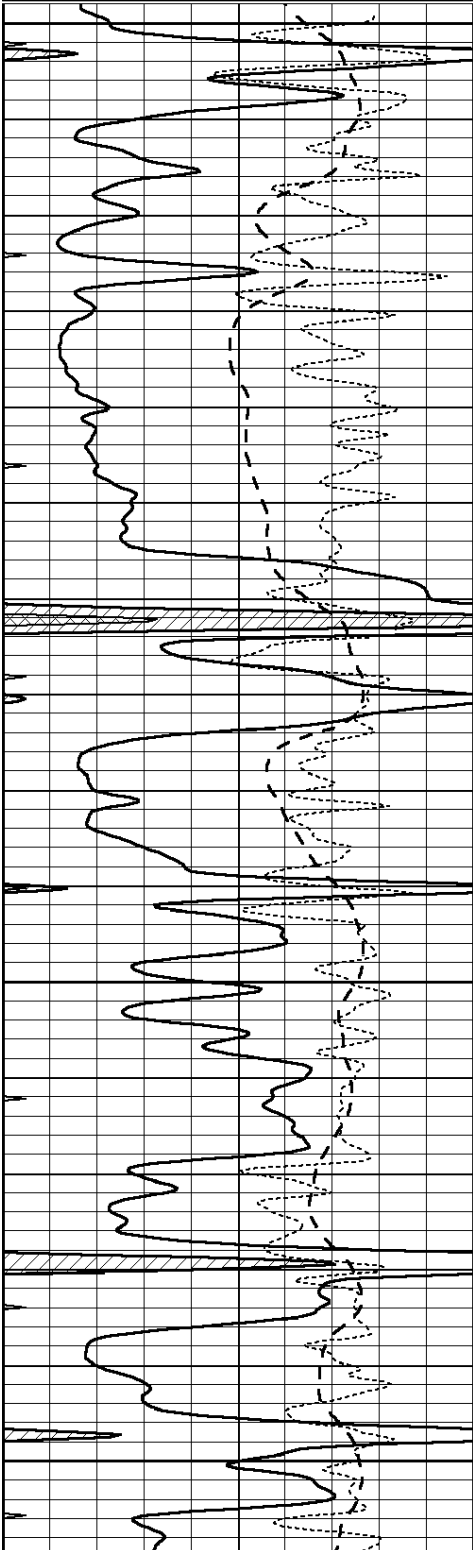


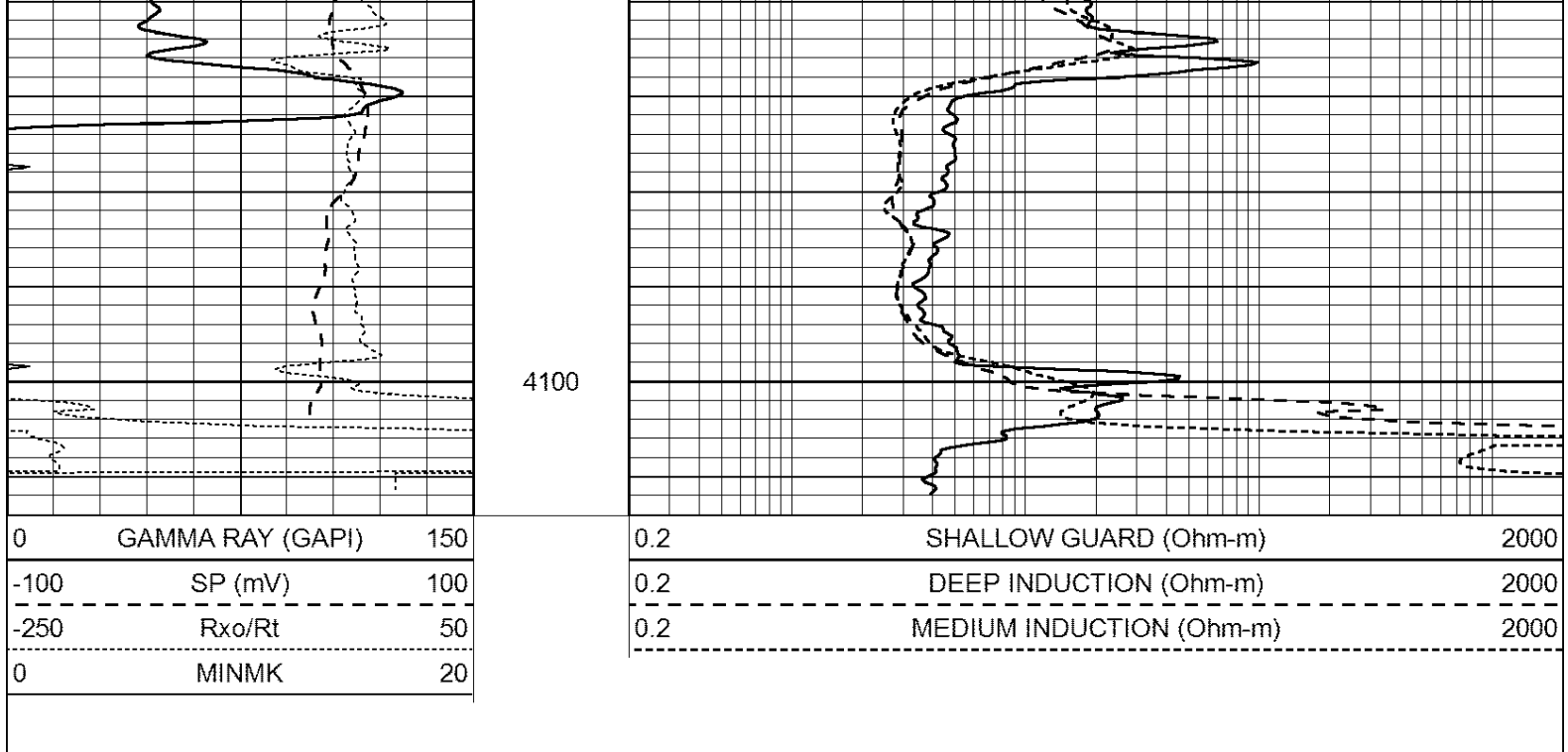
REPEAT SECTION

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 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: 007284ddn.db
 Dataset Pathname: pass3.7
 Dataset Creation: Mon Aug 22 15:20:12 2011 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
 Performed: Mon Aug 22 14:15:16 2011

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	-6.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	-4.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549

Litho Density Calibration Report
 Serial: 004N Model: PRB
 Performed Tue Sep 08 13:49:55 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1535.8	11161.3	3721.6	12498.8	cps
Window 2	1402.6	9435.7	3219.7	10417.7	cps
Window 3	1077.6	4422.0	1779.2	4753.4	cps
Window 4	337.3	342.8	337.4	343.7	cps
Long Space	0.0	8033.1	1817.0	9015.1	cps
Short Space	1.2	1671.8	1138.1	1813.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle : 45.5 Rib Slope : 1.017 Density/Spine Ratio : 0.573
 Spine Angle : 75.5 Spine Slope : 3.865 Spine Intercept : -19.7

Caliper

Readings
Low Ref 2.8
High Ref 4.6
Gain: 3.8

Reference
8.1
15.0

Offset: -2.3

Compensated Neutron Calibration Report

Serial Number: NEU_11
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: GR1
Tool Model: OPEN
Performed: Mon Aug 22 14:14:56 2011

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps
Calibrator Reading: 186.0 cps

Sensitivity: 0.2500 GAPI/cps