



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	GREAT PLAINS ENERGY, INC.		
Well	PERSINGER FARMS #1-6		
Field	WILDCAT		
County	NORTON	State	KANSAS
Location:	API # : 15-137-20620 1800' FNL & 2490' FWL		Other Services CDL/CNL/PE SONIC/MEL
SEC 6	TWP 4S	RGE 23W	Elevation
Permanent Datum	GROUND LEVEL	Elevation	K.B. 2438
Log Measured From	KELLY BUSHING 5' A.G.L.		D.F.
Drilling Measured From	KELLY BUSHING		G.L. 2433
Date	10-3-12		
Run Number	TW0		
Depth Driller	3890		
Depth Logger	3890		
Bottom Logged Interval	3888		
Top Log Interval	00		
Casing Driller	332		
Casing Logger	333		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 56		
pH / Fluid Loss	10.0 / 7.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.20 @ 70F		
Rmf @ Meas. Temp	0.90 @ 70F		
Rmc @ Meas. Temp	1.44 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.740 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	4:30 A.M.		
Maximum Recorded Temperature	114F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	CLAYTON ERICKSON		

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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

NABORS COMPLETION & PRODUCTION CO.
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: NORTON, 6S TO RD. "S", 4 1/2W, S INTO.



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File: 009927pdr.db
 Dataset Pathname: pass6.1A
 Presentation Format: dil2
 Dataset Creation: Wed Oct 03 08:08:04 2012
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

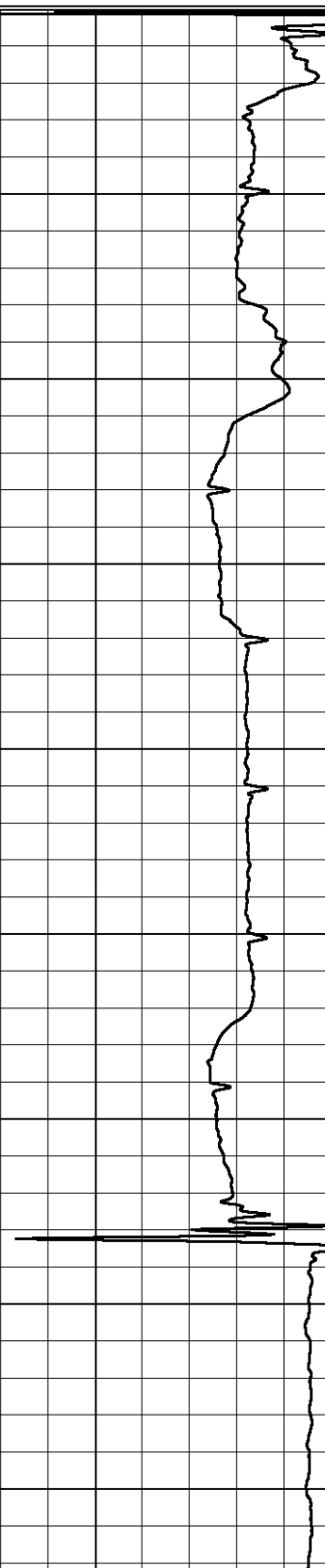
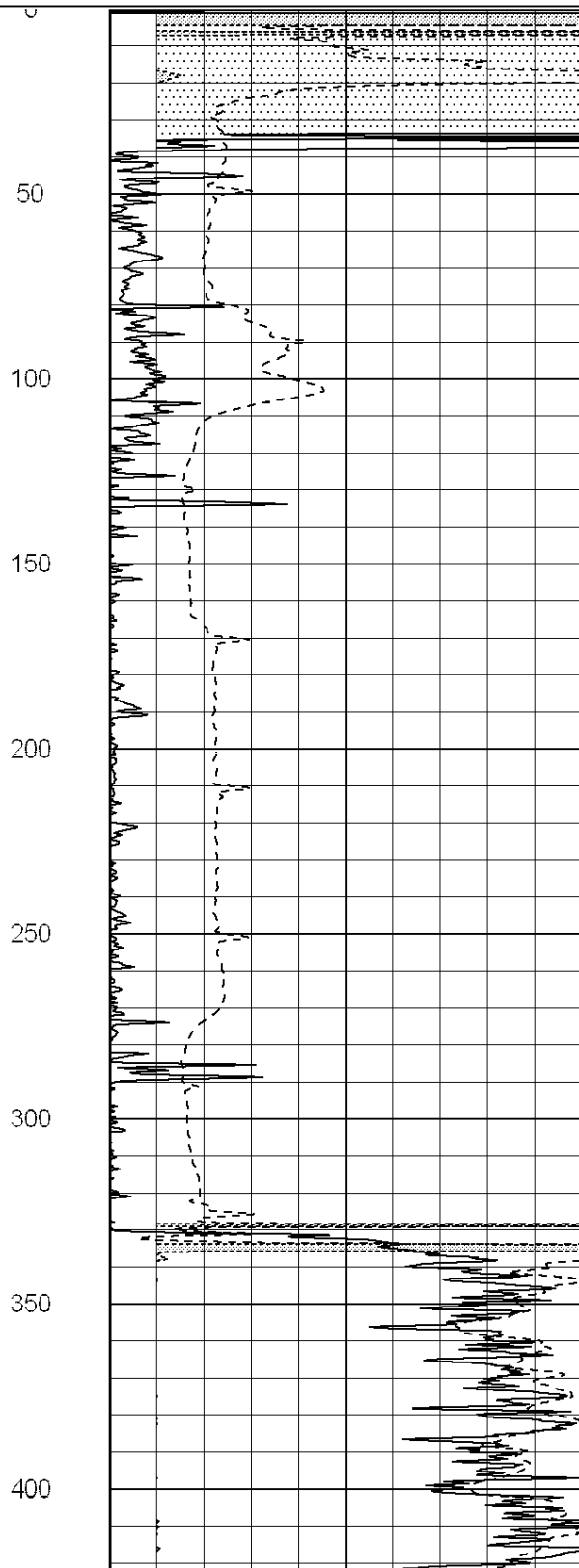
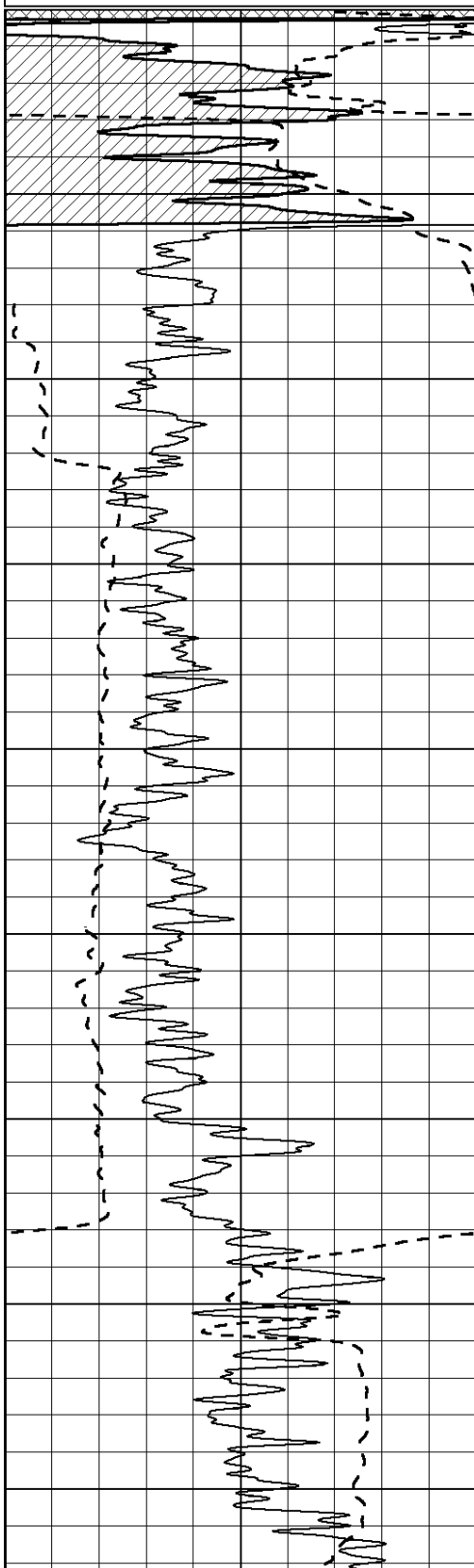
0 RLL3 (Ohm-m) 50

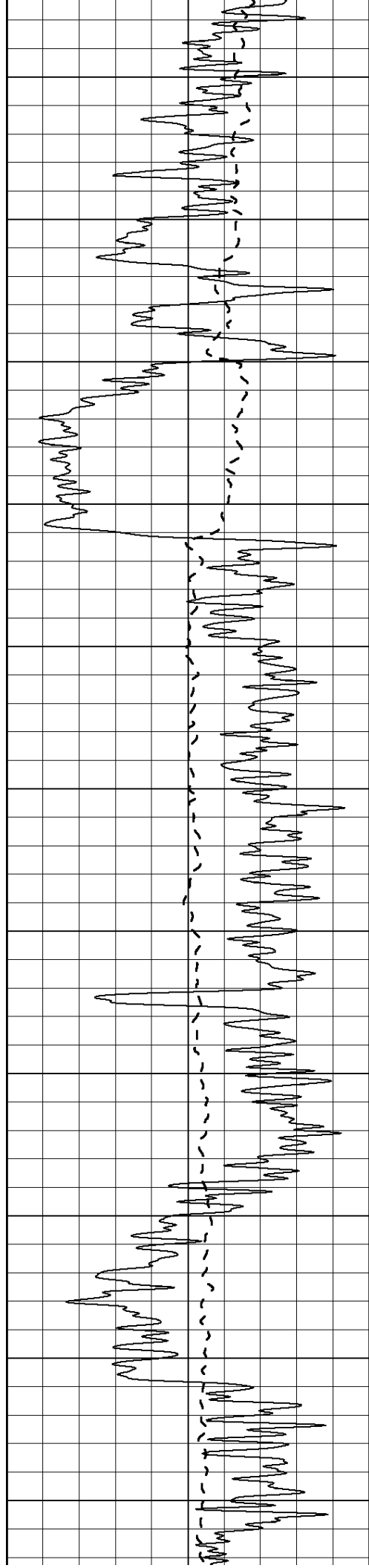
0 Deep Induction (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500





450

500

550

600

650

700

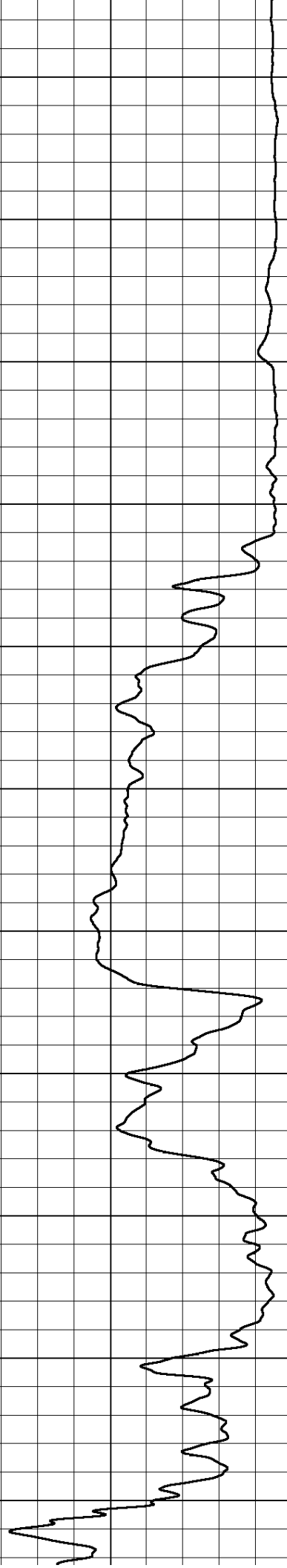
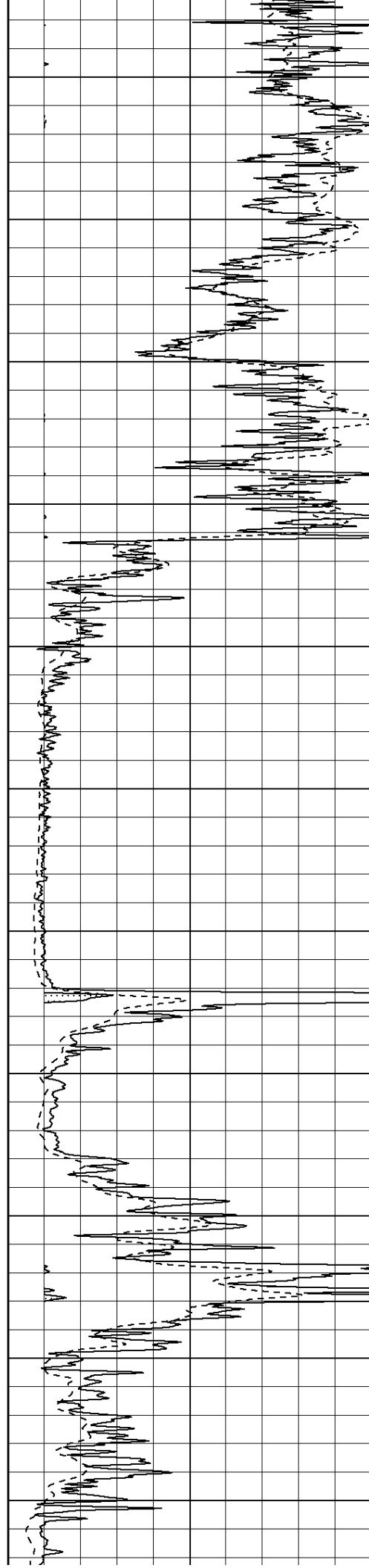
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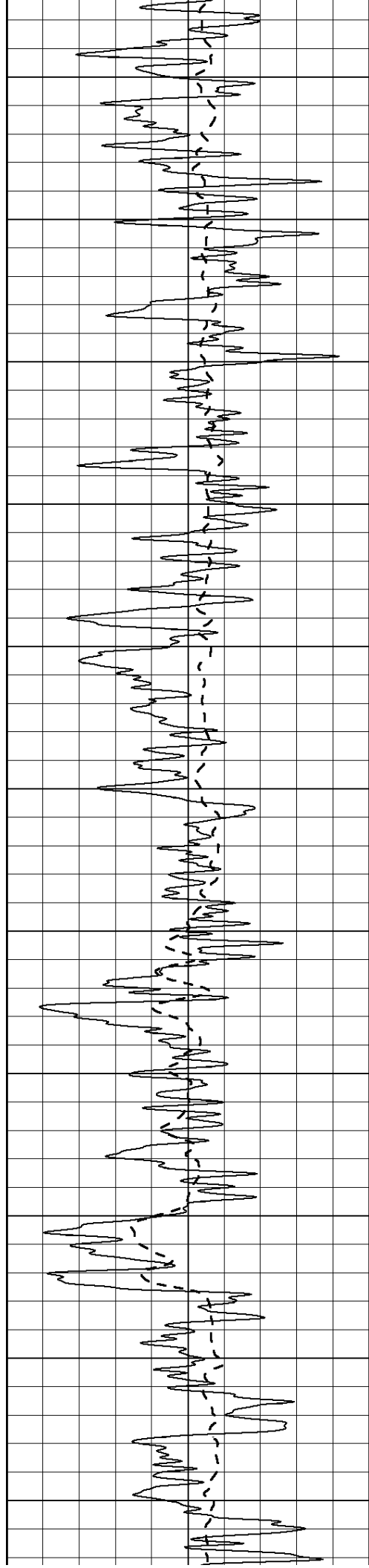
800

850

900

950





1000

1050

1100

1150

1200

1250

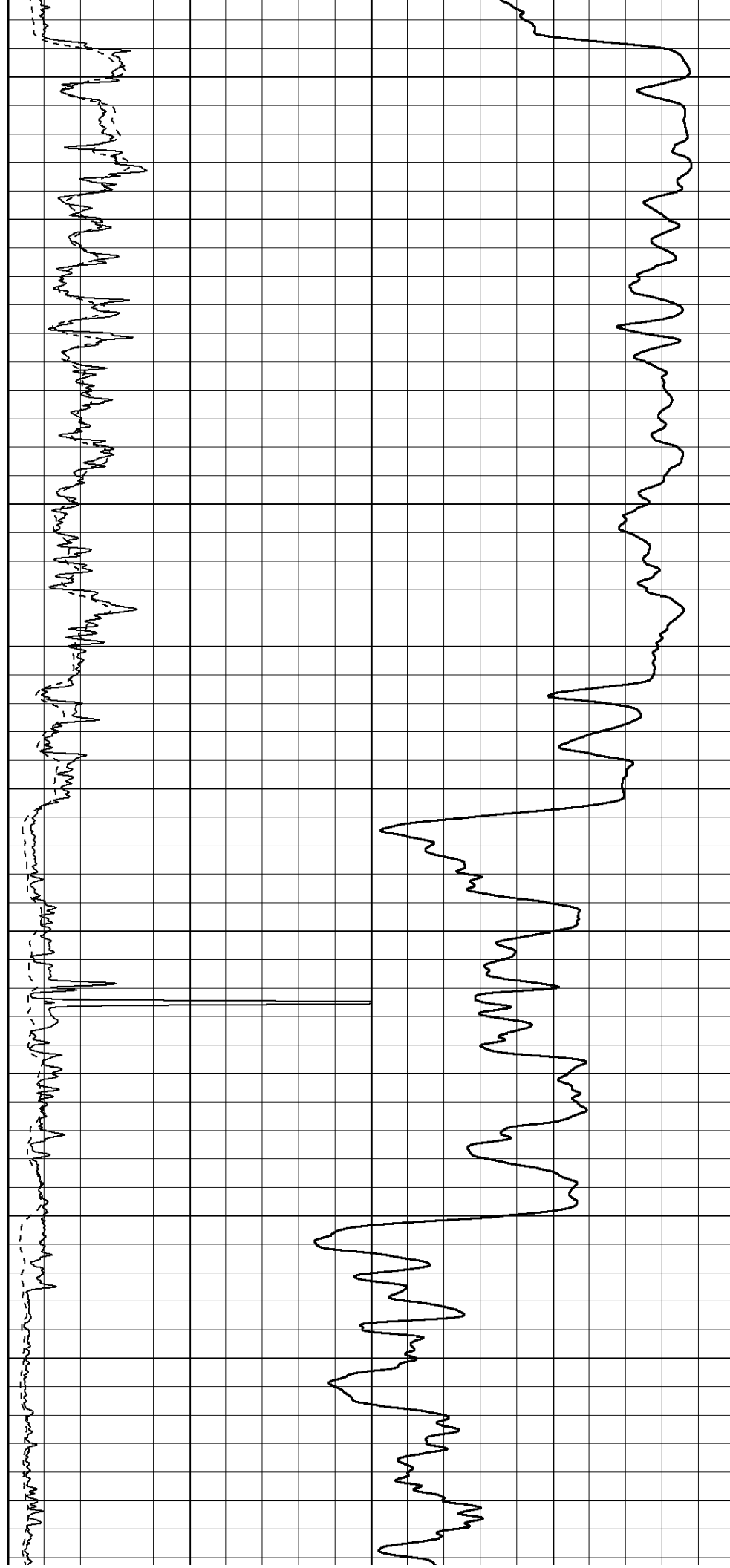
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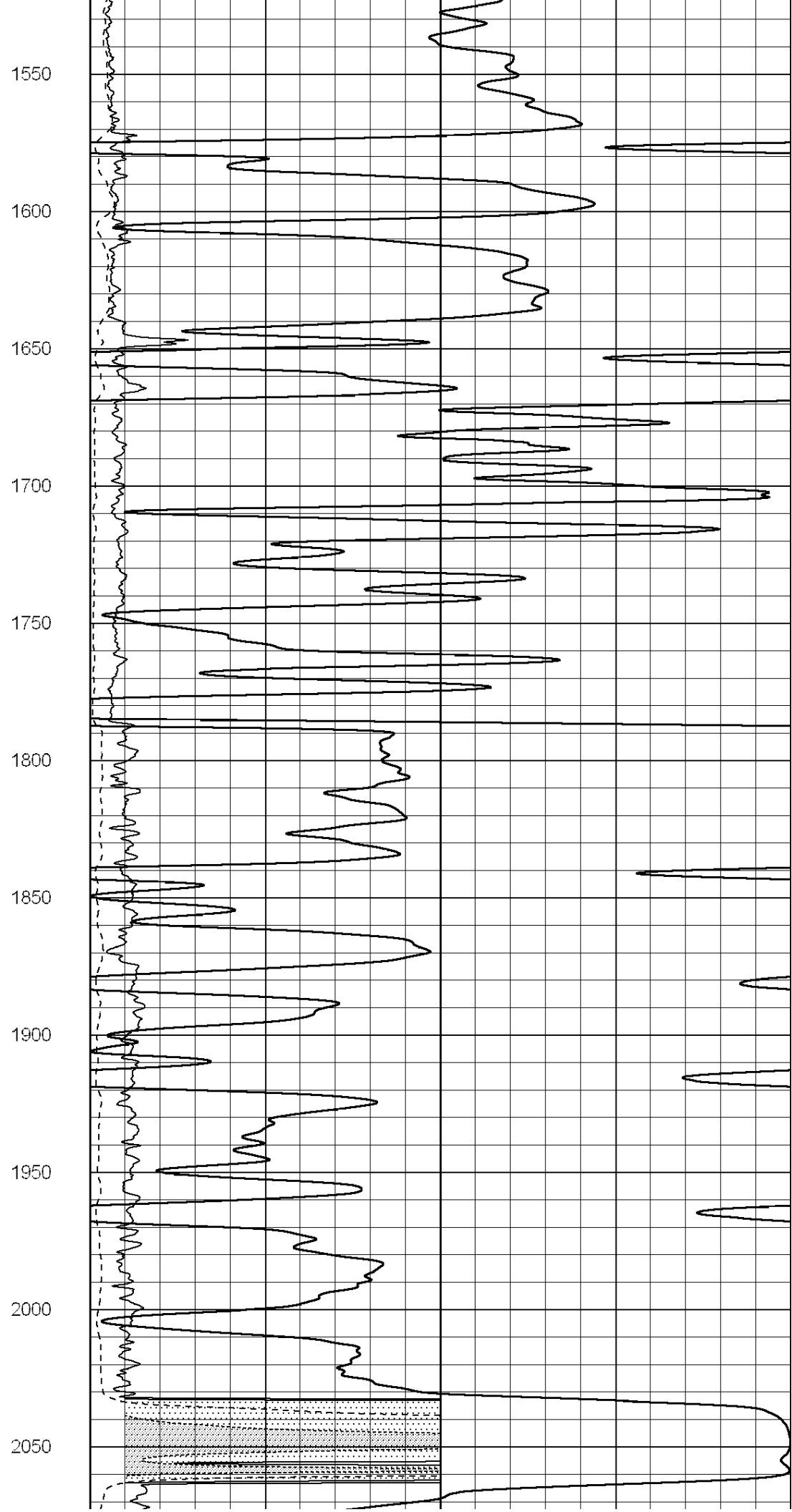
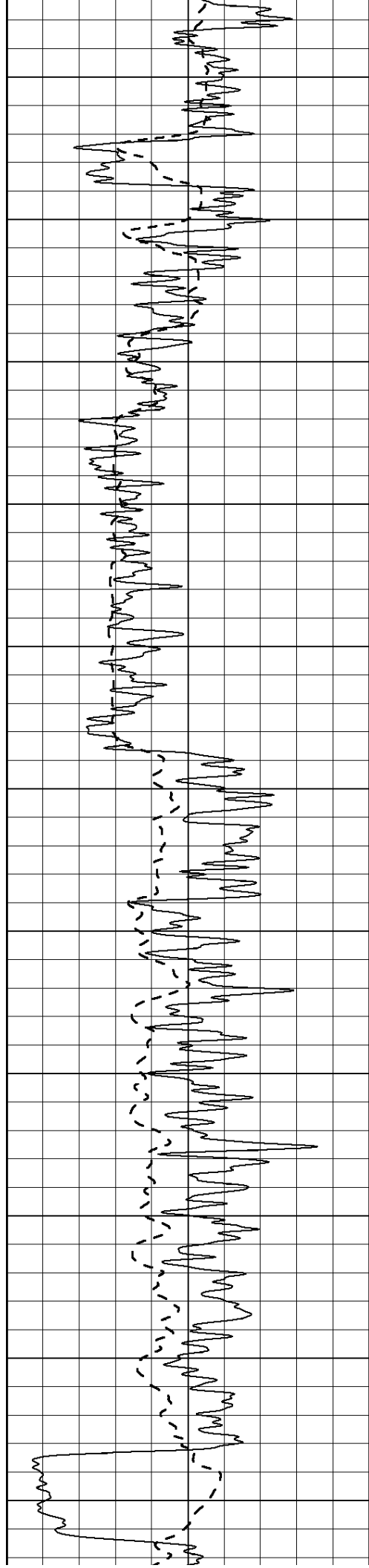
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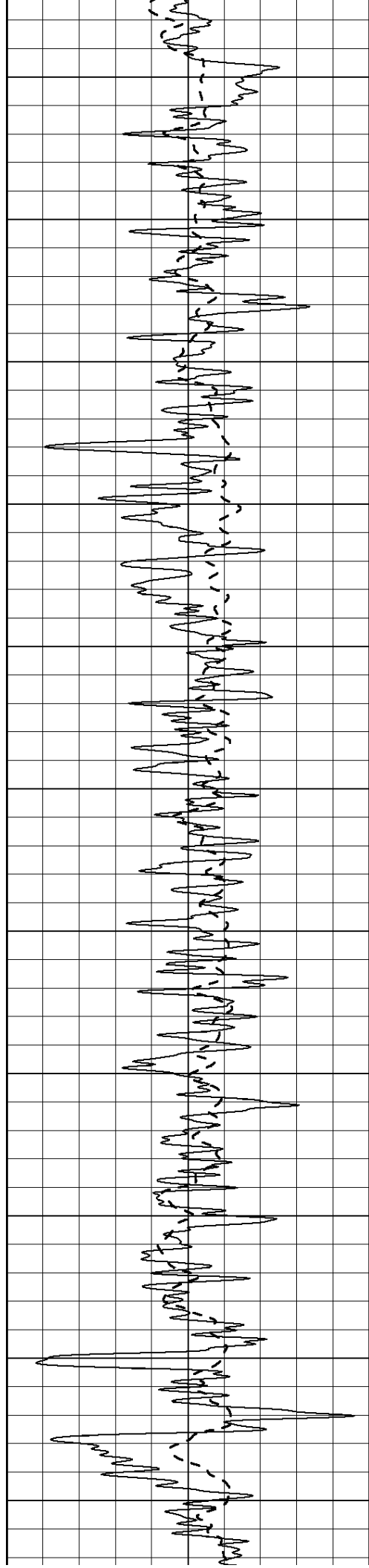
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1450

1500







2100

2150

2200

2250

2300

2350

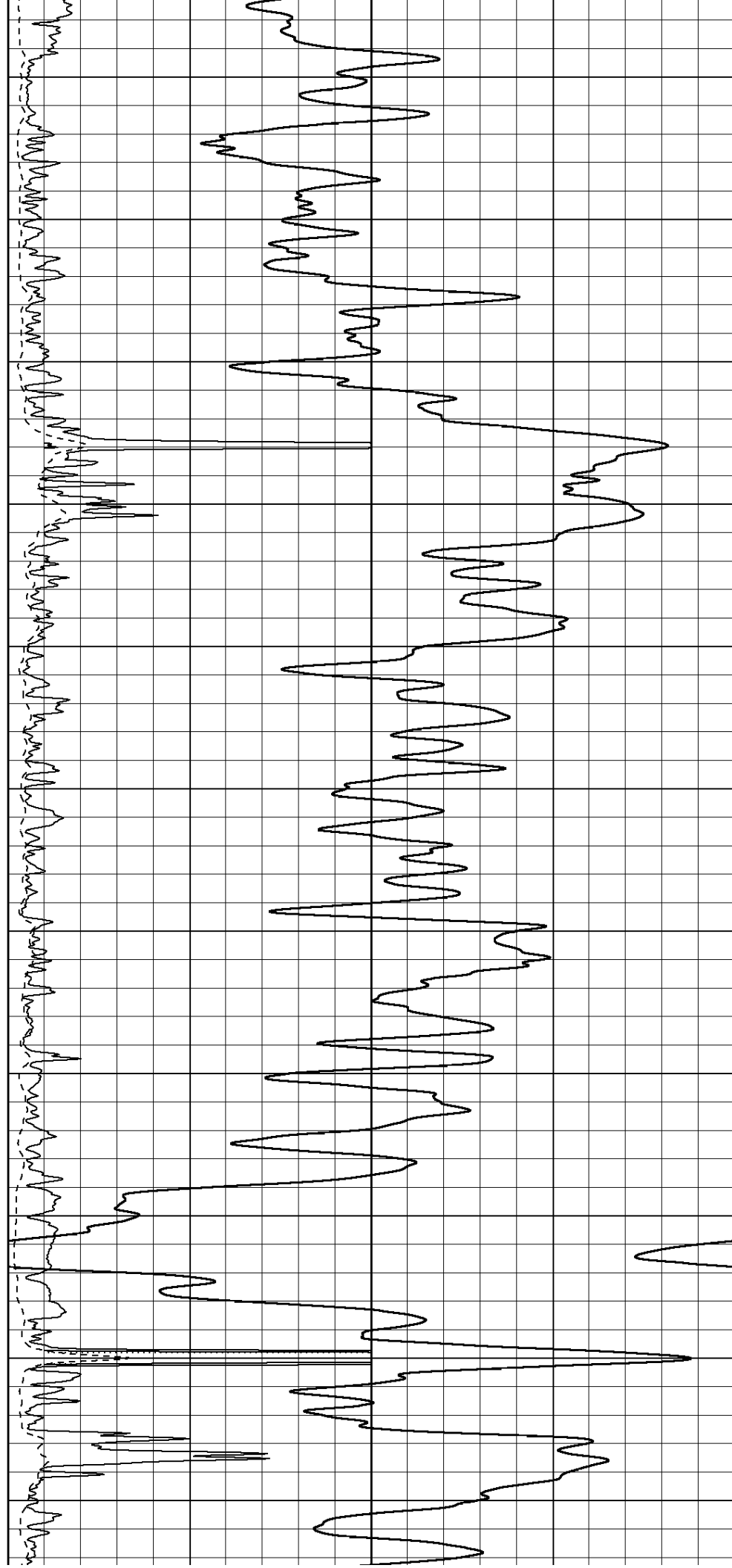
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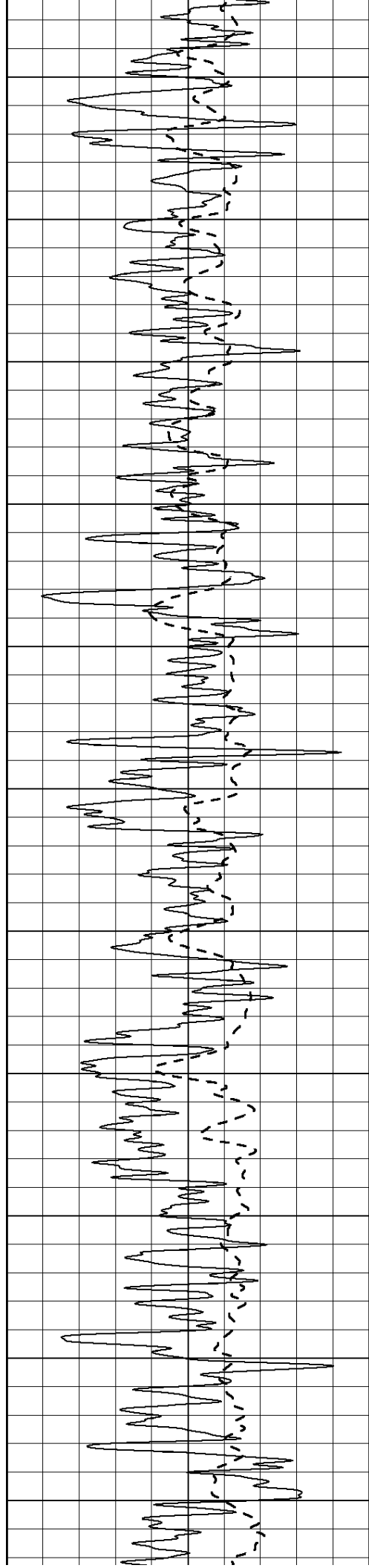
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2500

2550

2600





2650

2700

2750

2800

2850

2900

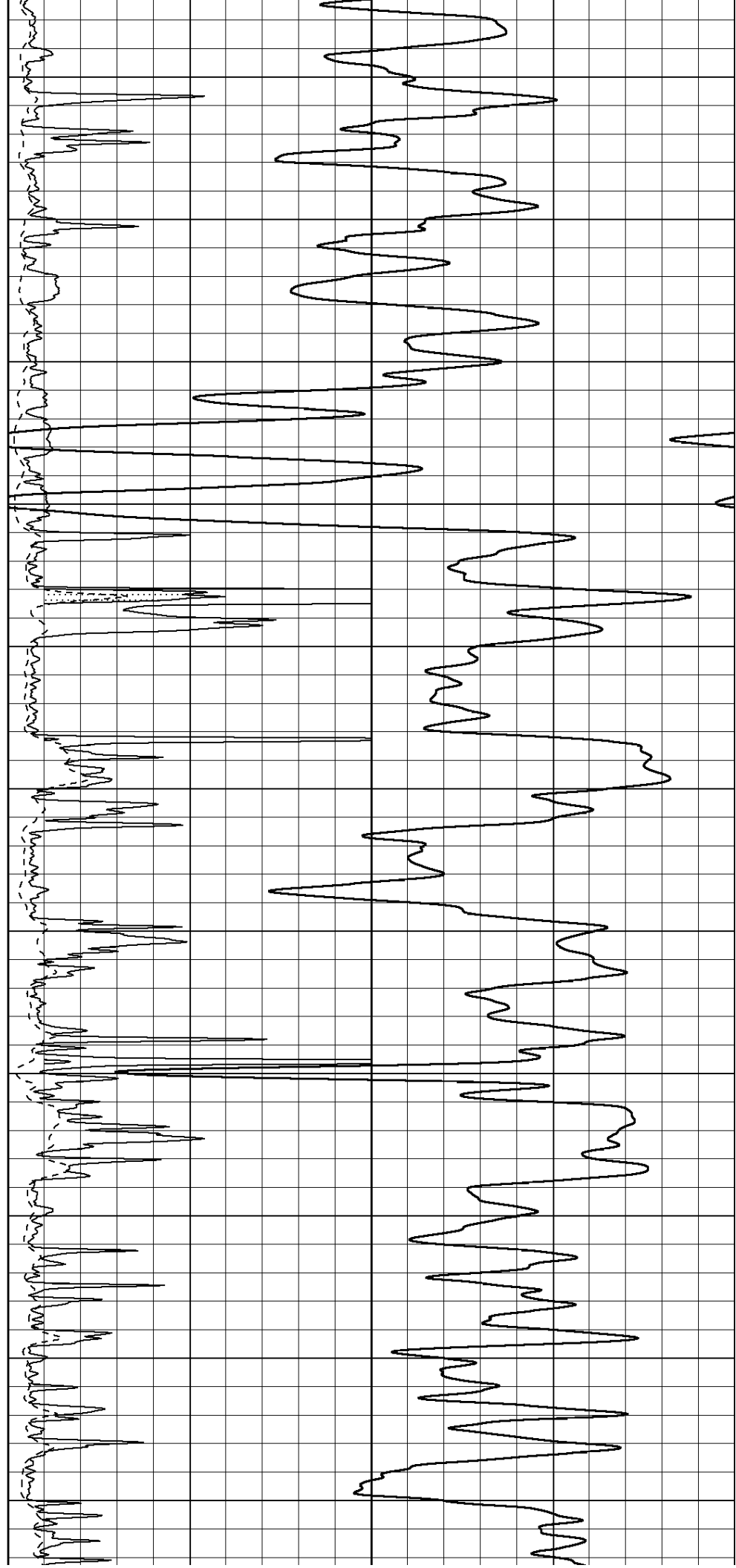
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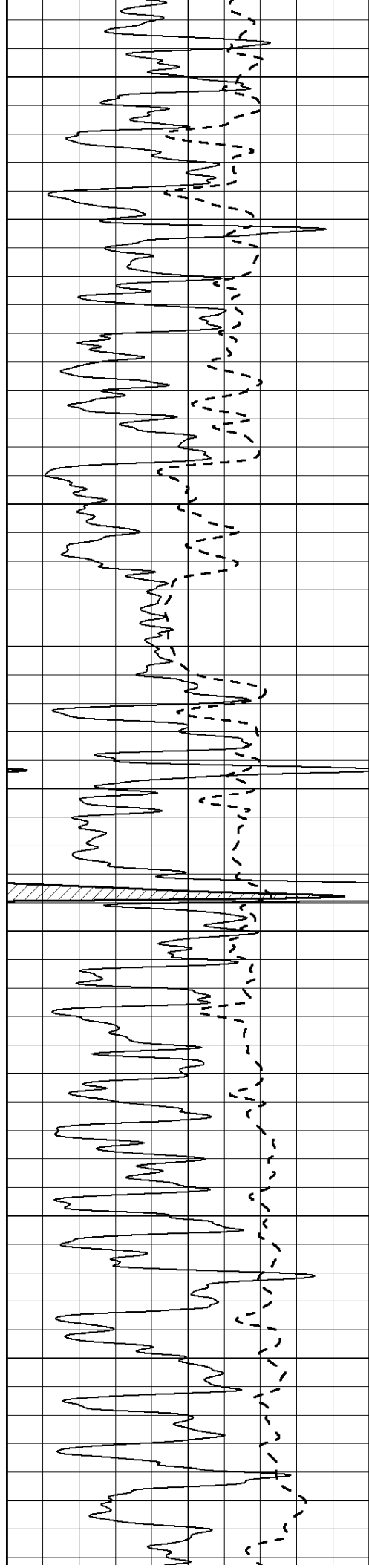
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

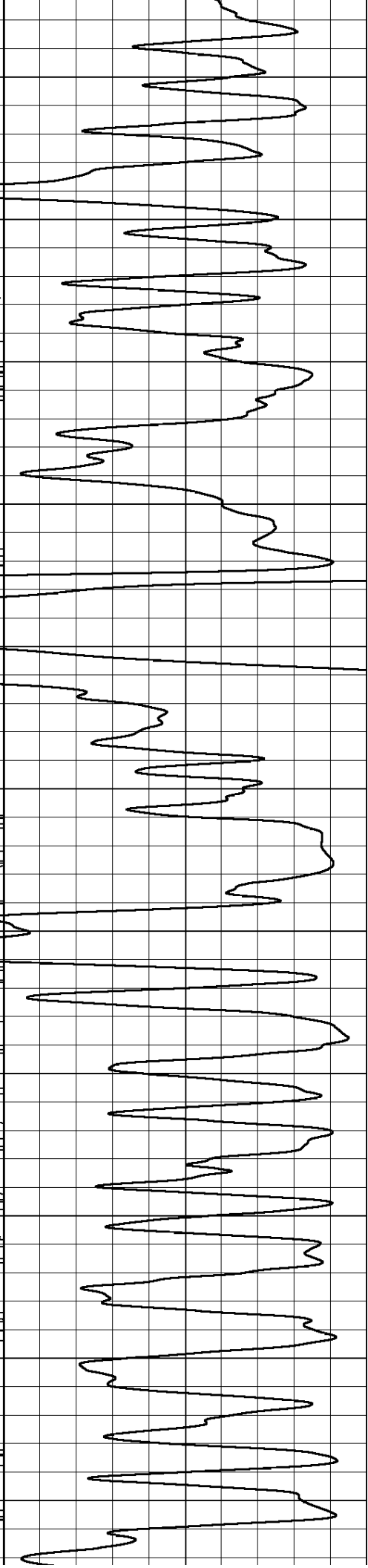
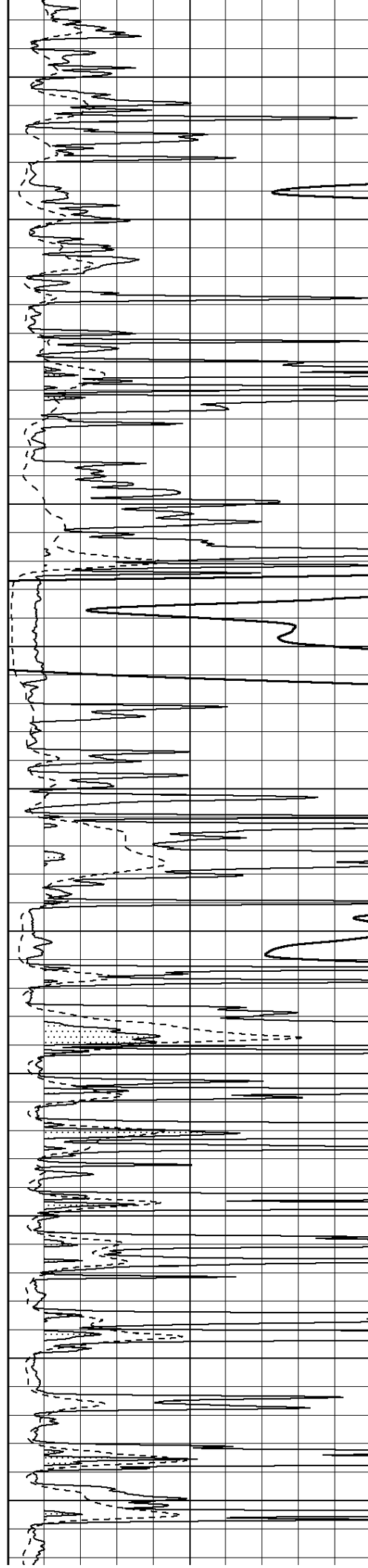
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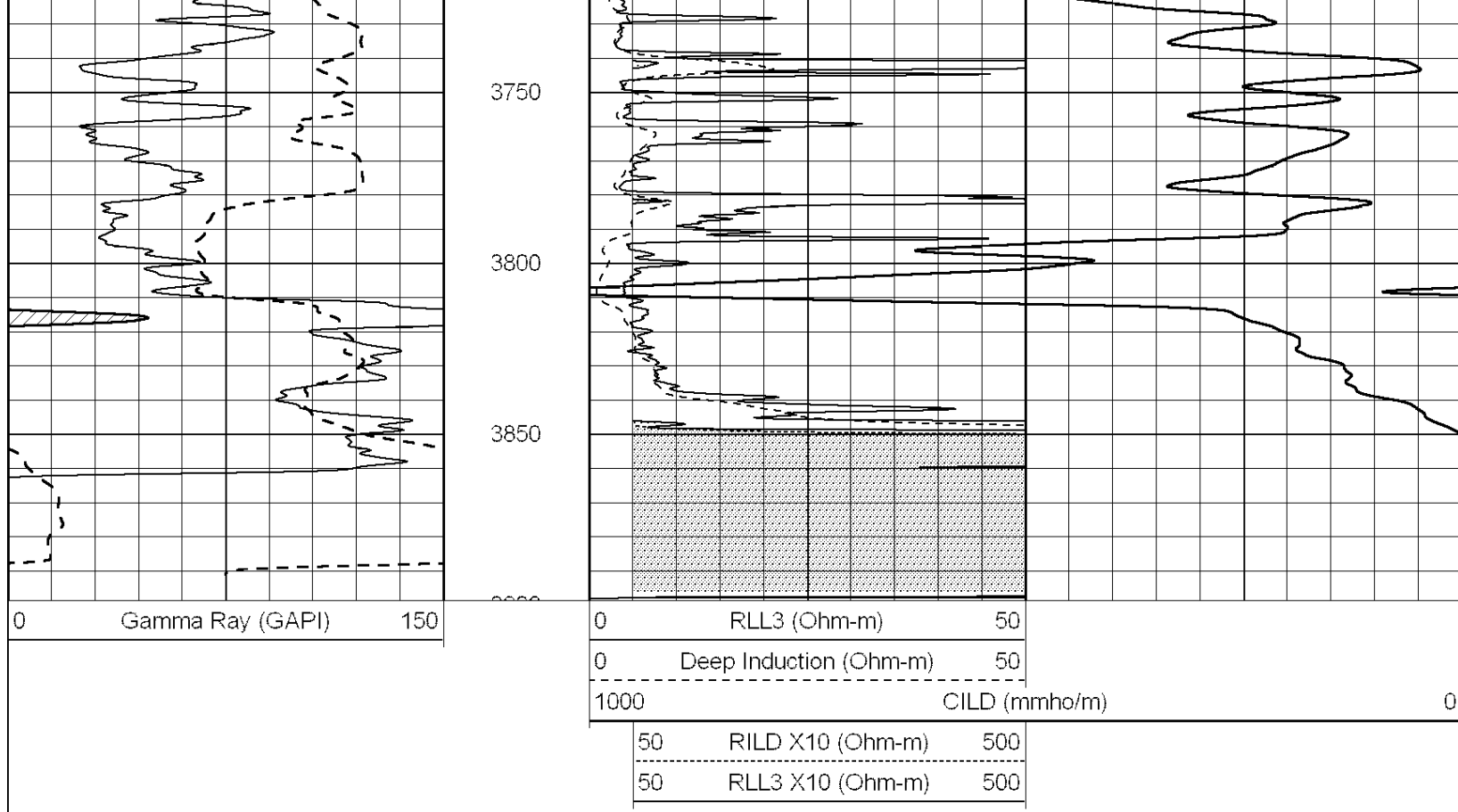
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3600

3650

3700

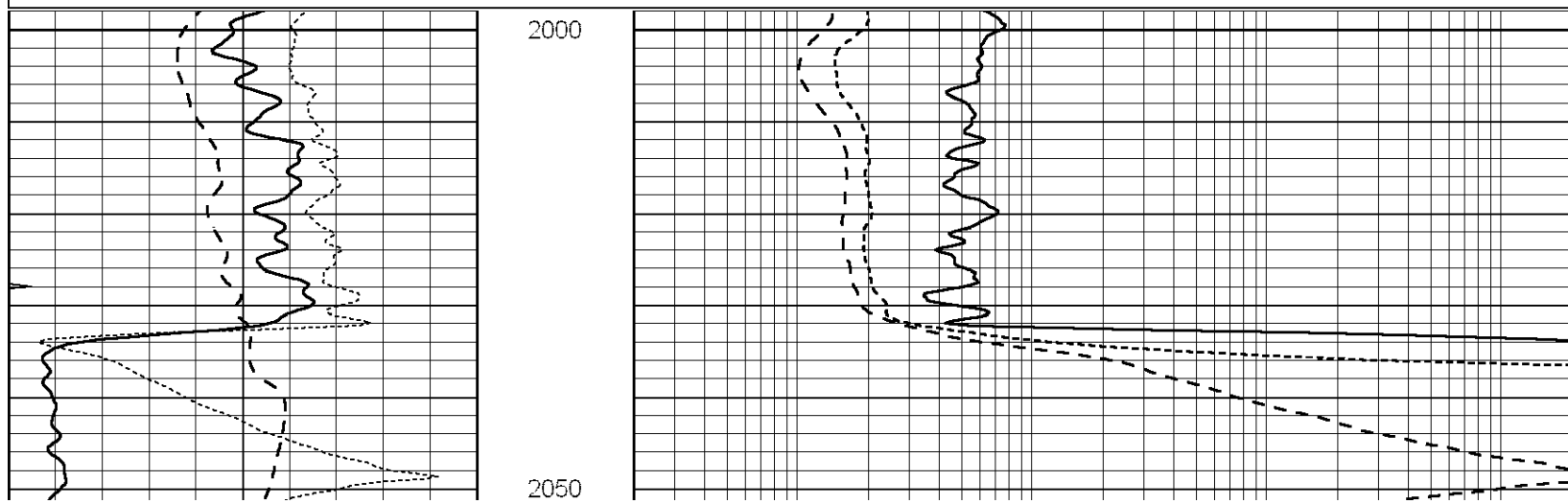


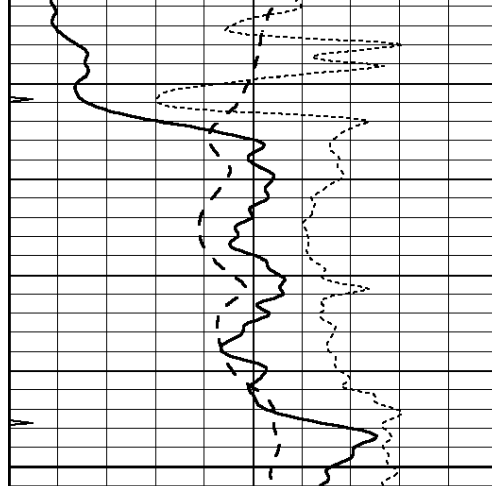


MAIN SECTION

Database File: 009927pdm.db
 Dataset Pathname: pass6.1A
 Presentation Format: dil
 Dataset Creation: Wed Oct 03 08:08:04 2012
 Charted by: Depth in Feet scaled 1:240

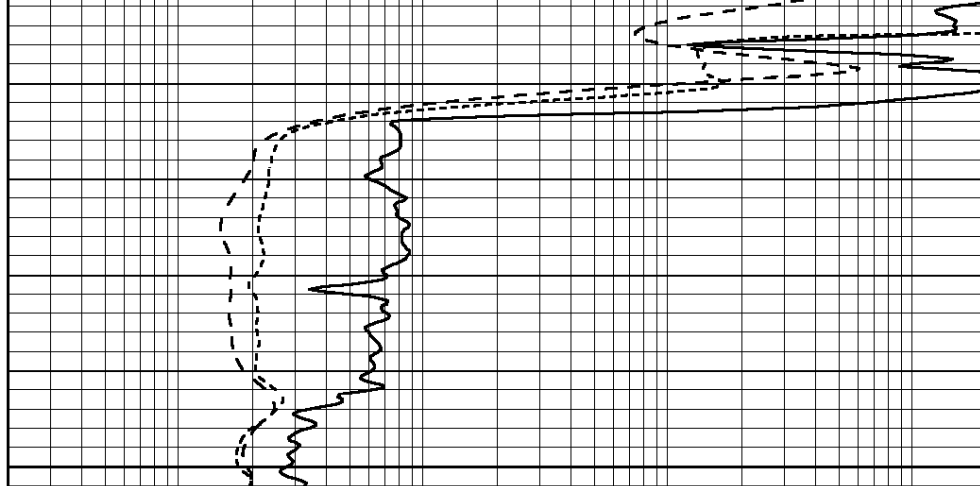
0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

2100



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



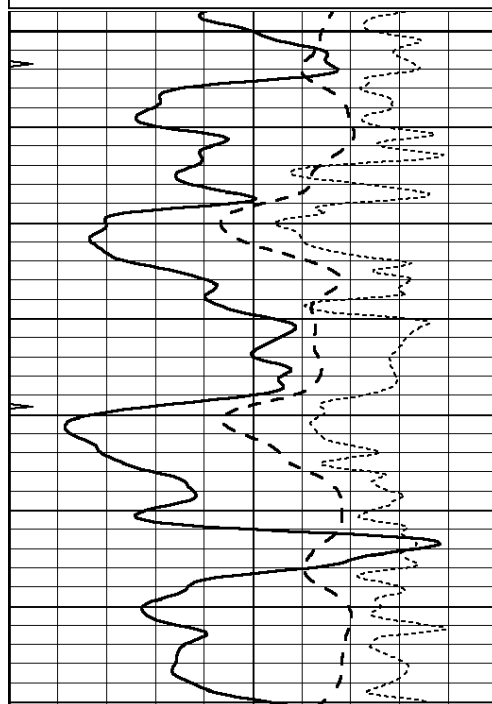
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MAIN SECTION

Database File: 009927pdl.db
 Dataset Pathname: pass6.1A
 Presentation Format: dil
 Dataset Creation: Wed Oct 03 08:08:04 2012
 Charted by: Depth in Feet scaled 1:240

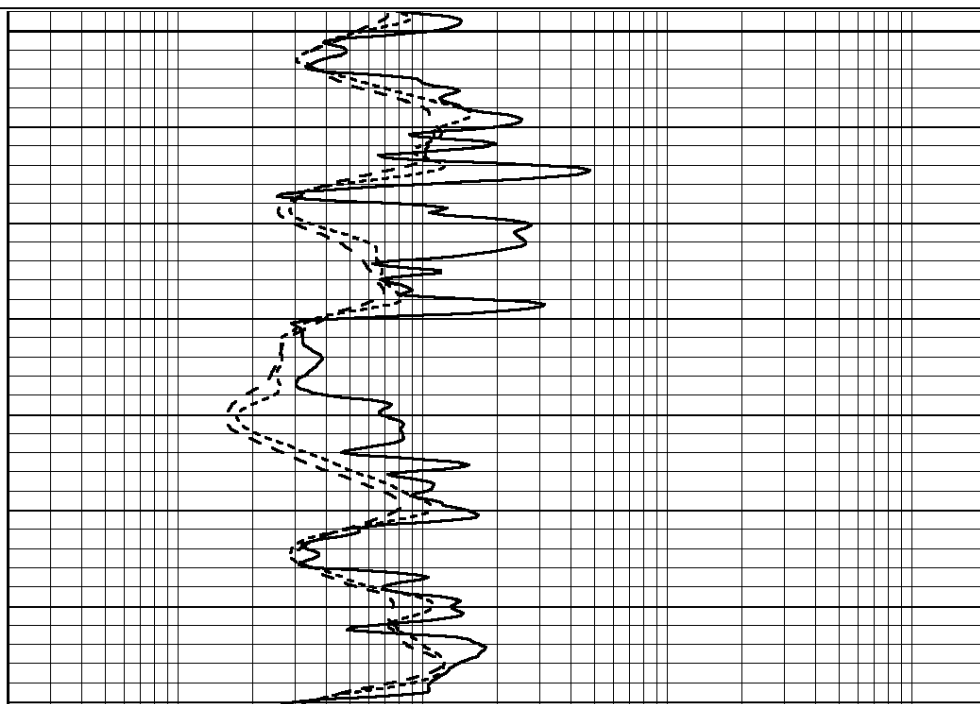
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

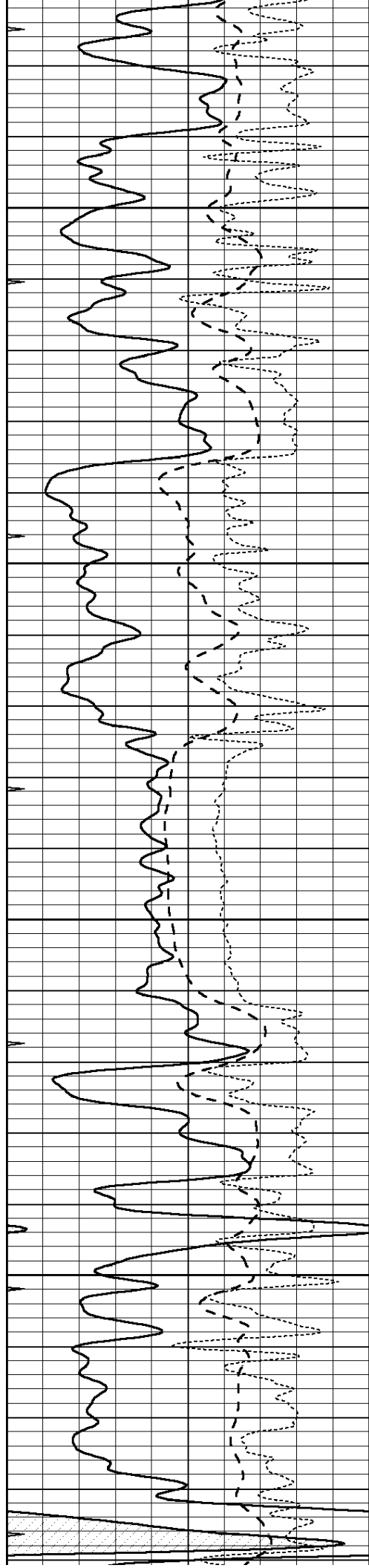
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3200

3250



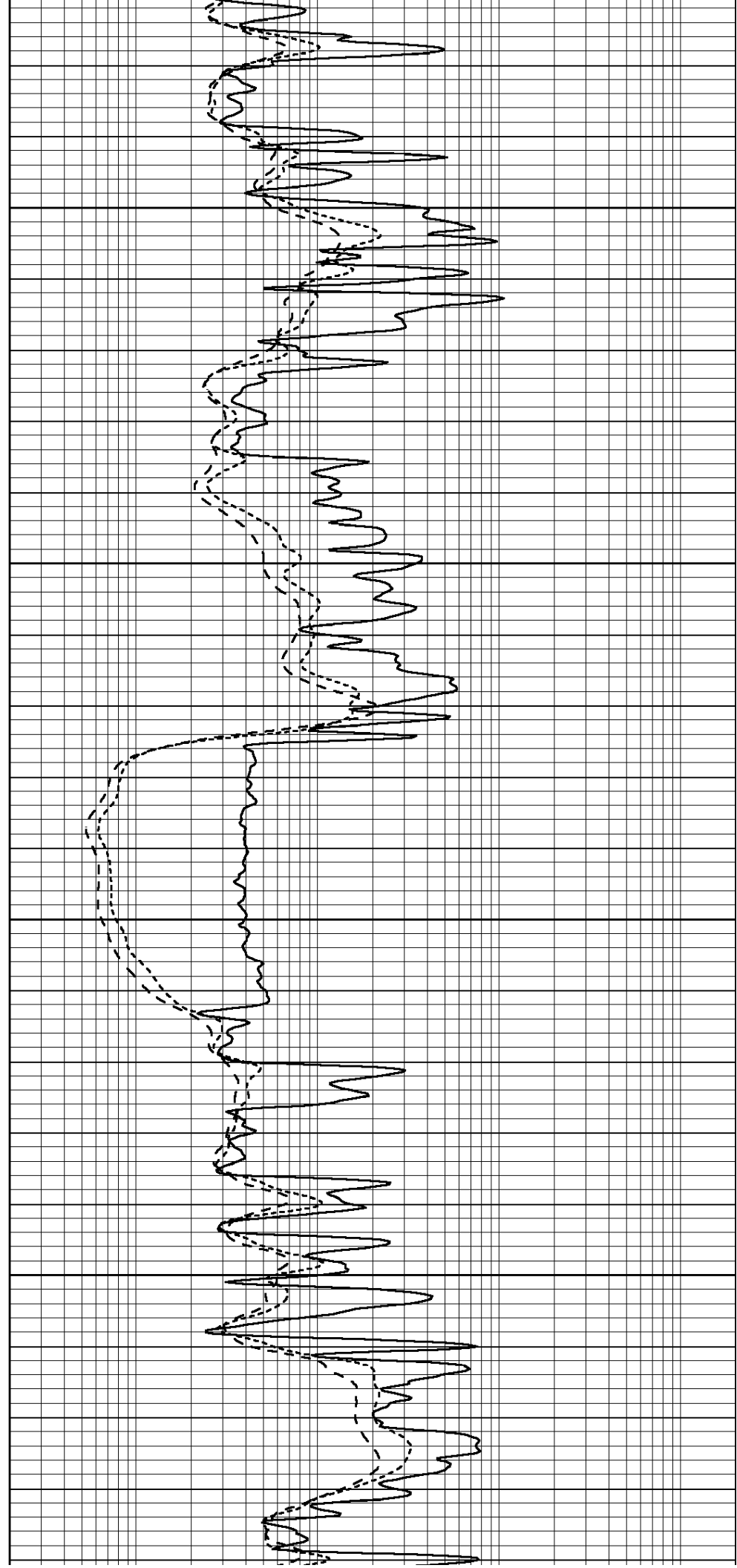


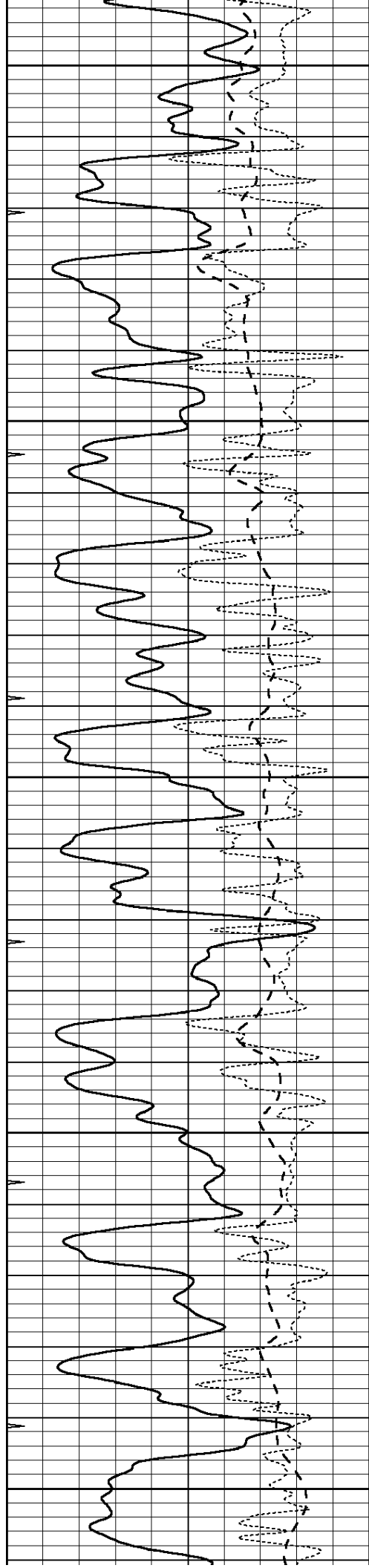
3300

3350

3400

3450





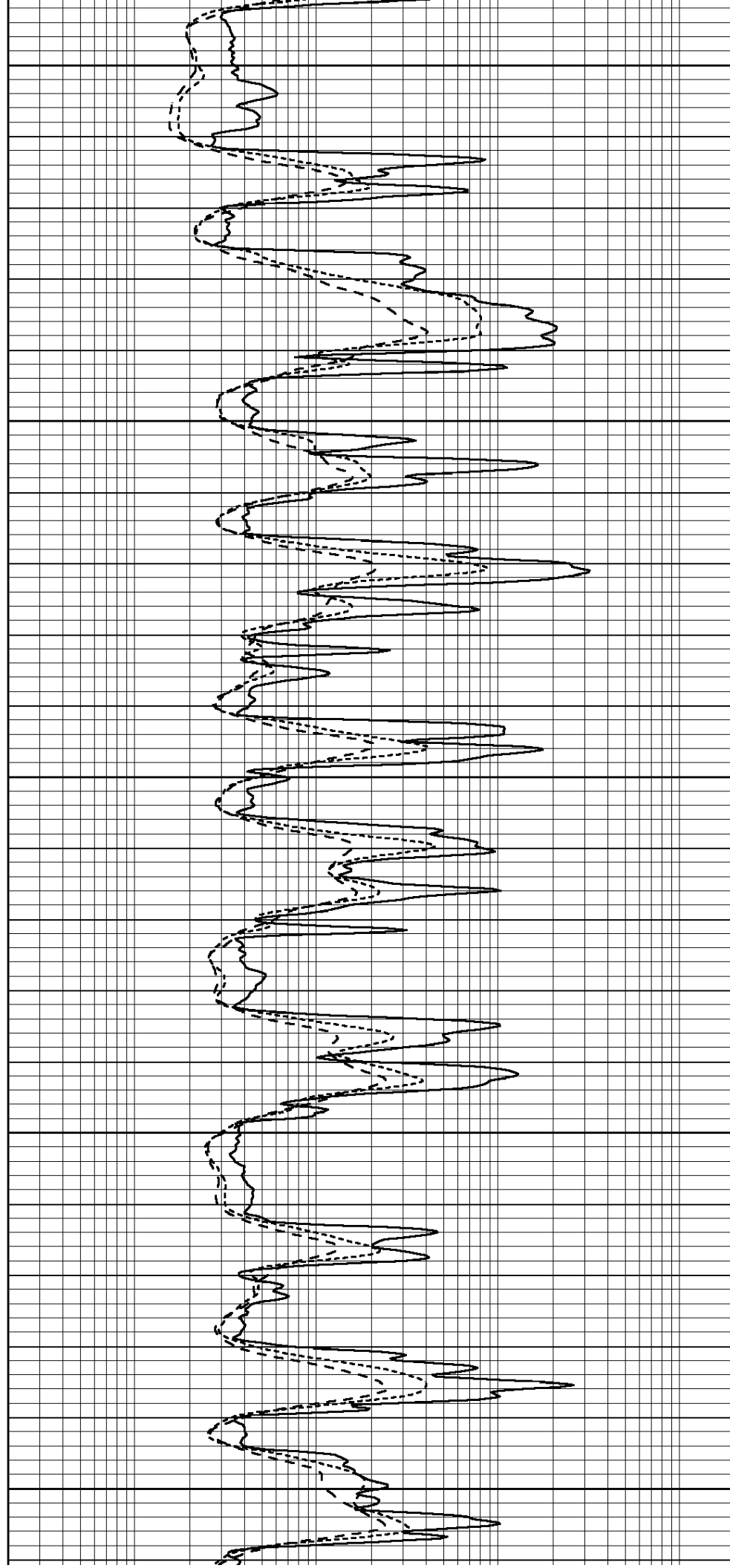
3500

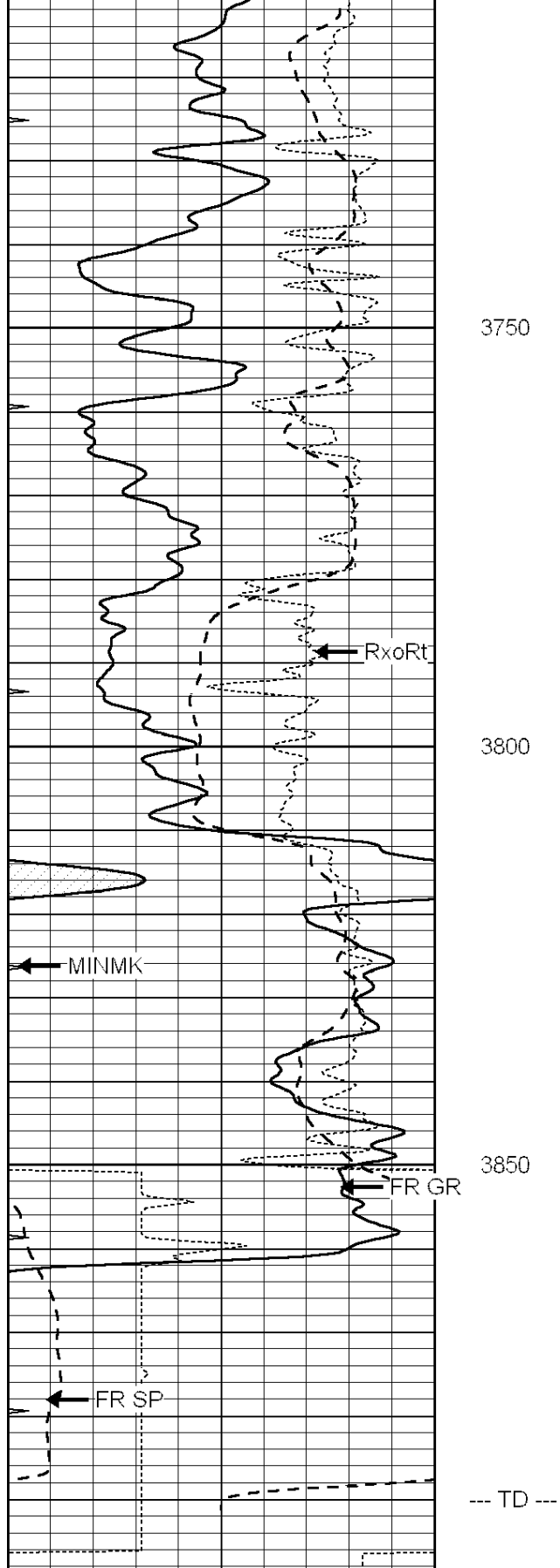
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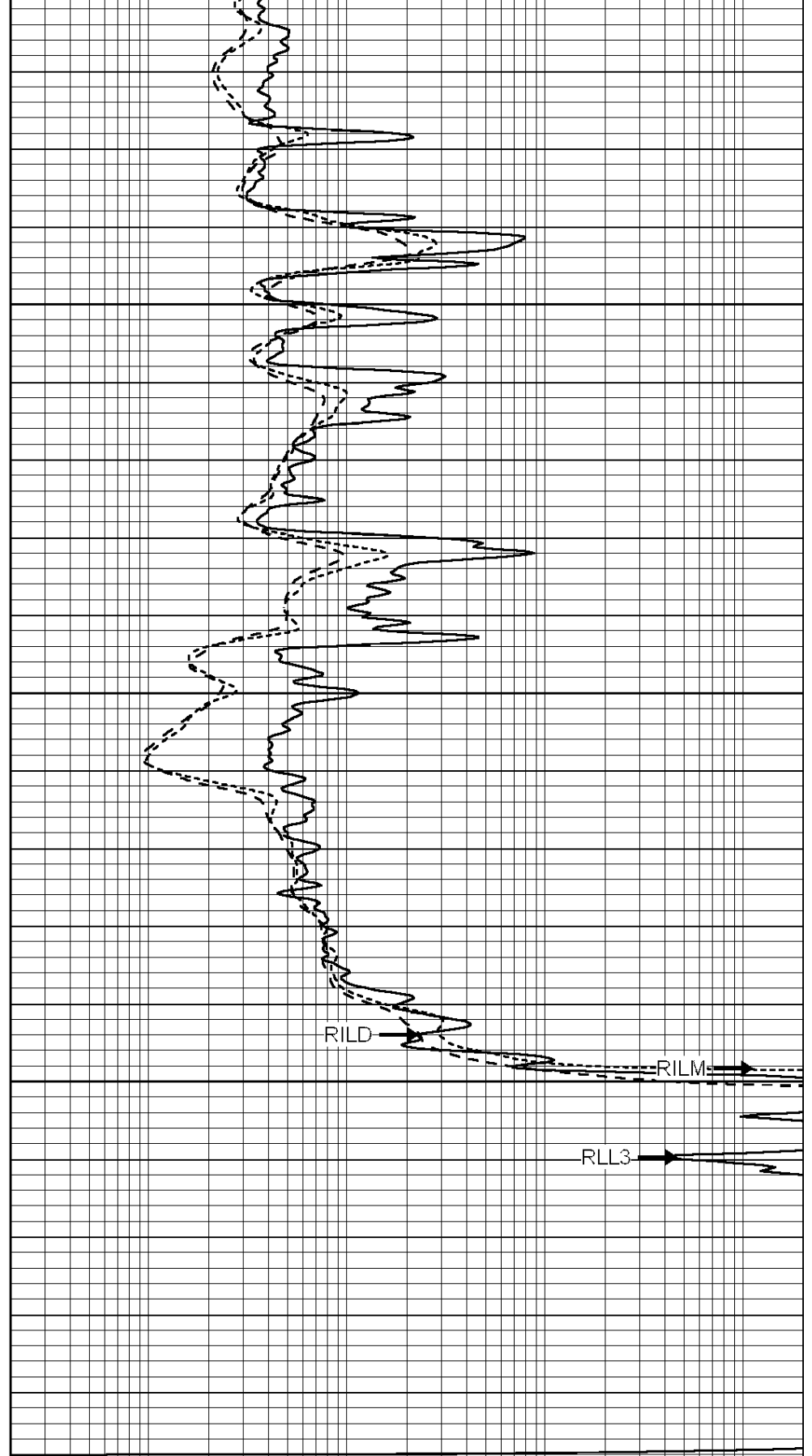
3650

3700





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



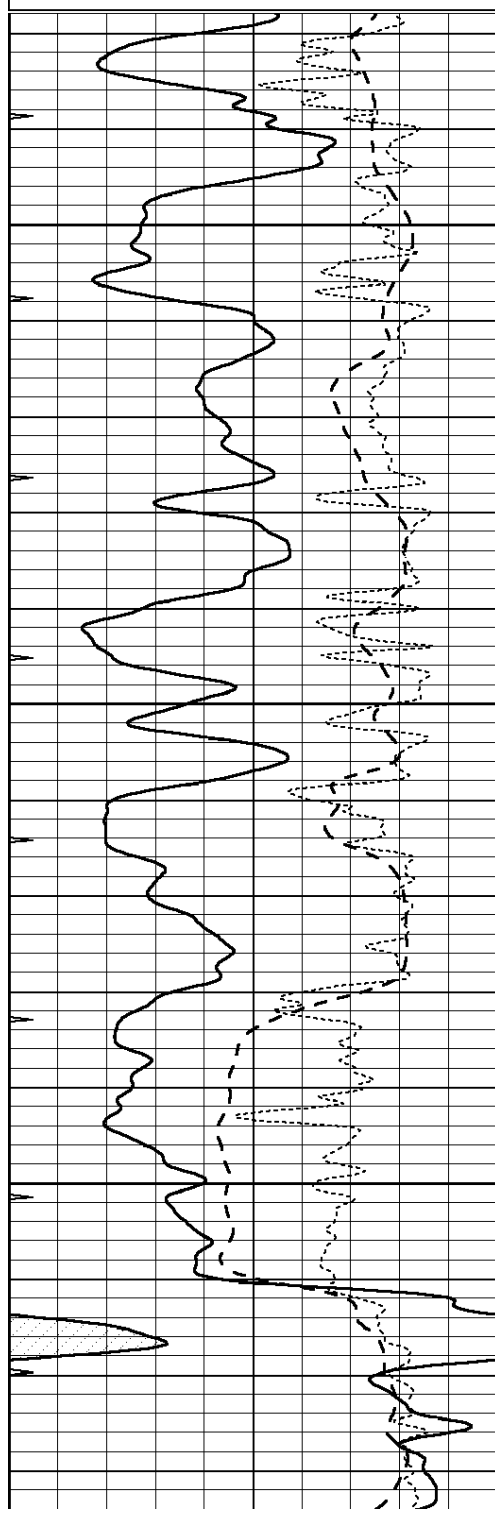
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

REPEAT SECTION

Database File: 009927pdr.db
 Dataset Pathname: pass5.2
 Presentation Format: dil
 Dataset Creation: Wed Oct 03 08:28:07 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

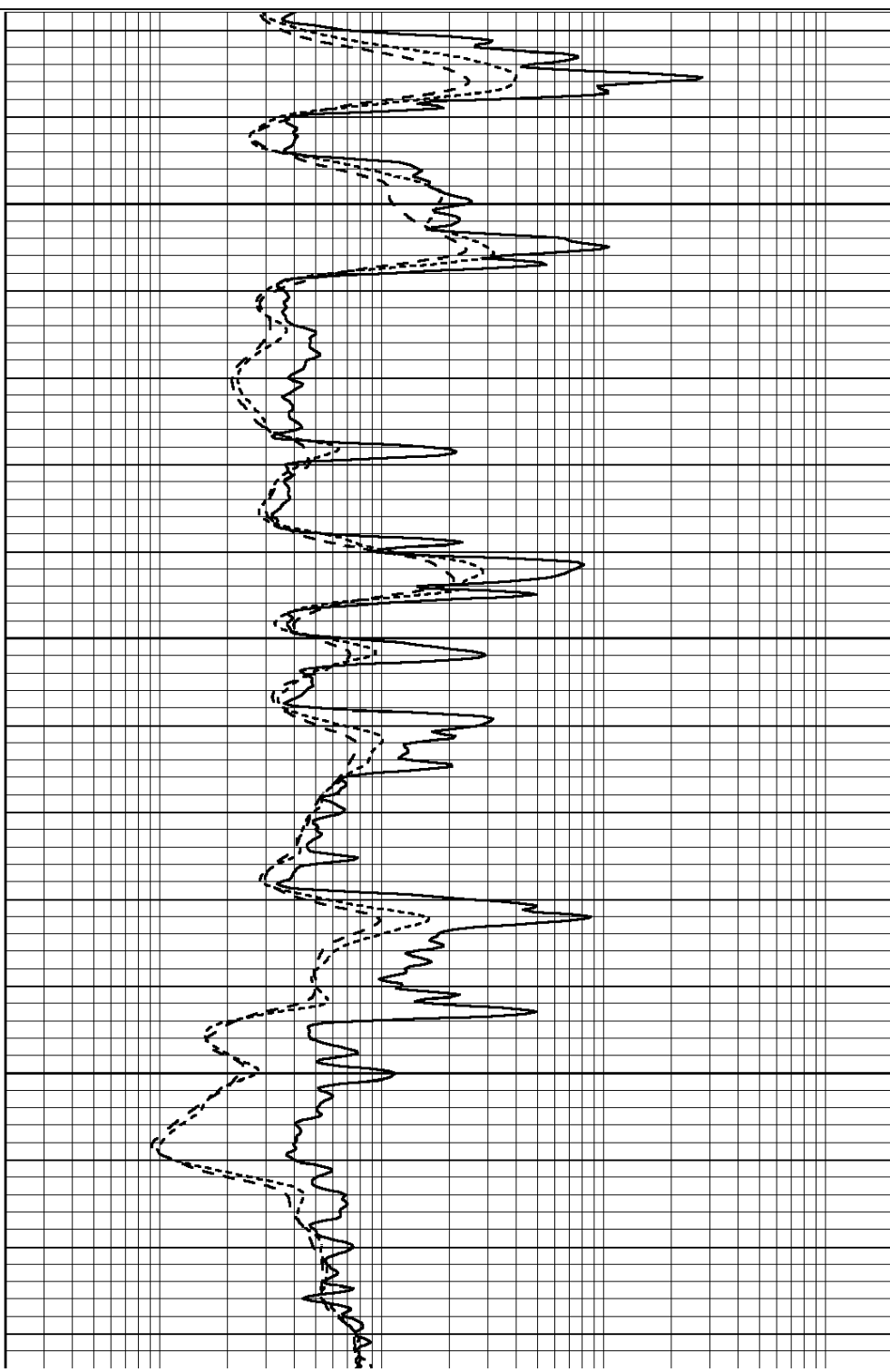
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

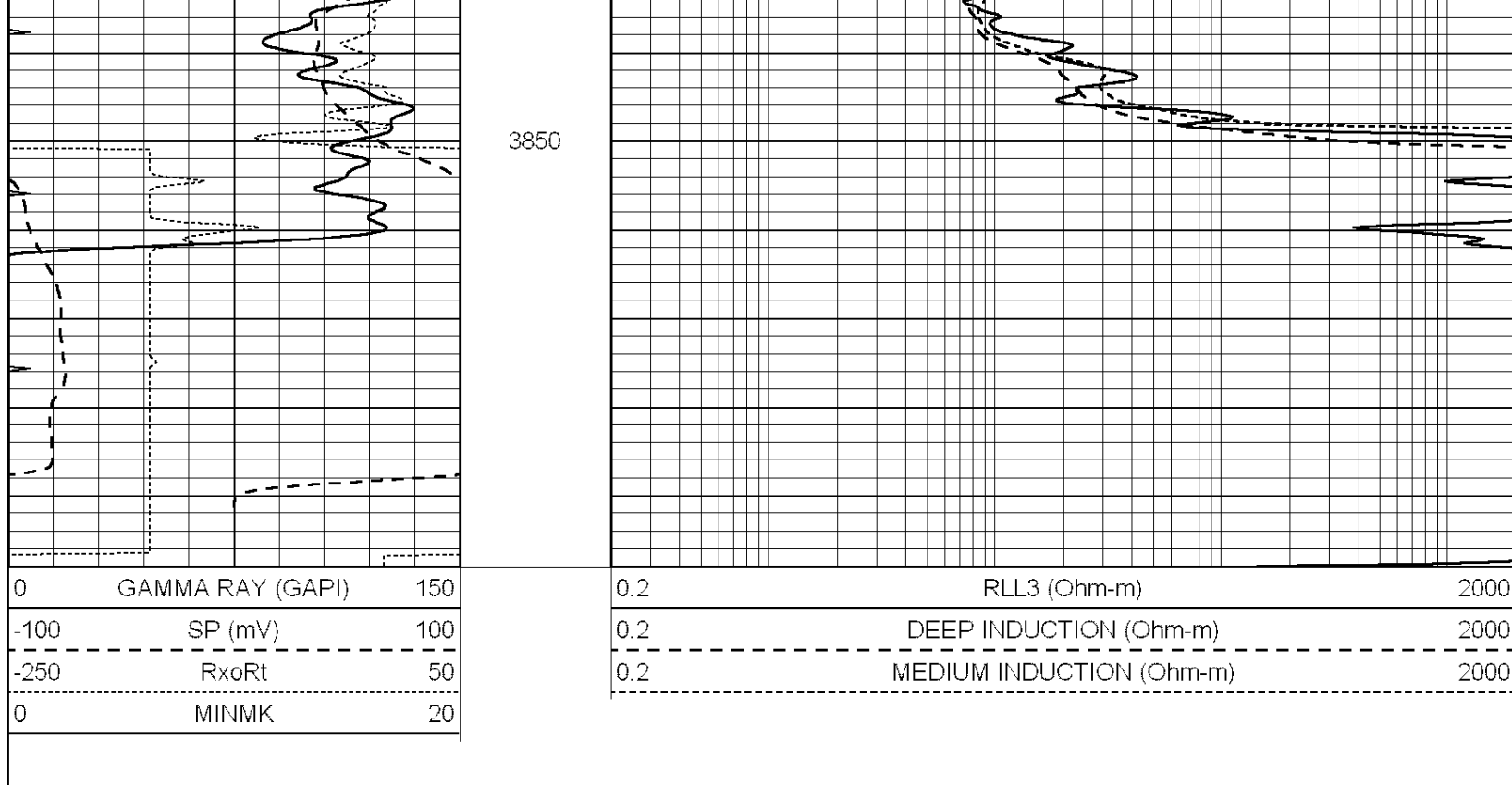


3700

3750

3800





Calibration Report

Database File: 009927pdn.db
 Dataset Pathname: pass6.1A
 Dataset Creation: Wed Oct 03 08:08:04 2012

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Wed Oct 03 07:30:49 2012

		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	490.000	-14.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	500.000	-13.000
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

Litho Density Calibration Report

Serial: 002 Model: PRB
 Performed Mon Apr 02 17:56:53 2012

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	872.3	7266.3	2292.6	7931.5	cps
Window 2	822.9	5957.5	1958.0	6389.6	cps
Window 3	670.4	3219.9	1211.9	3388.2	cps
Window 4	201.6	201.1	202.3	204.6	cps
Long Space	0.0	5134.6	1135.0	5566.6	cps
Short Space	1.1	994.2	674.4	1059.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 45.6	Rib Slope	: 1.020	Density/Spine Ratio	: 0.569
Spine Angle	: 75.6	Spine Slope	: 3.888	Spine Intercept	: -18.3
Caliper					
Low Ref	Readings 4.3	Reference 8.4			
High Ref	6.1	14.0			
	Gain: 3.0		Offset: -4.4		
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 Oct 03 07:05:33 2012			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.7500	GAPI/cps		