



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	ETERNITY EXPLORATION, LLC.		
Well	BETTY WERTH #4		
Field	GURK NORTH		
County	GRAHAM	State	KANSAS
Location:	API # : 15-065-23933-00-00		Other Services
	2170' FNL & 1650' FEL N2 - SE - SW - NE		CNL/CDL
	SEC 7 TWP 10S RGE 25W		Elevation
Permanent Datum	GROUND LEVEL	Elevation	2528
Log Measured From	KELLY BUSHING 5' A.G.L.	D.F.	2531
Drilling Measured From	KELLY BUSHING	G.L.	2528
Date	6/4/13		
Run Number	ONE		
Depth Driller	4075		
Depth Logger	4074		
Bottom Logged Interval	4072		
Top Log Interval	00		
Casing Driller	218		
Casing Logger	217		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3.100	
Density / Viscosity	9.2 / 54		
pH / Fluid Loss	10.0 / 8.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.80 @ 86F		
Rmf @ Meas. Temp	0.60 @ 86F		
Rmc @ Meas. Temp	0.96 @ 86F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.58 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	117F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	WYATT URBAN	CARLO UGOLINI	

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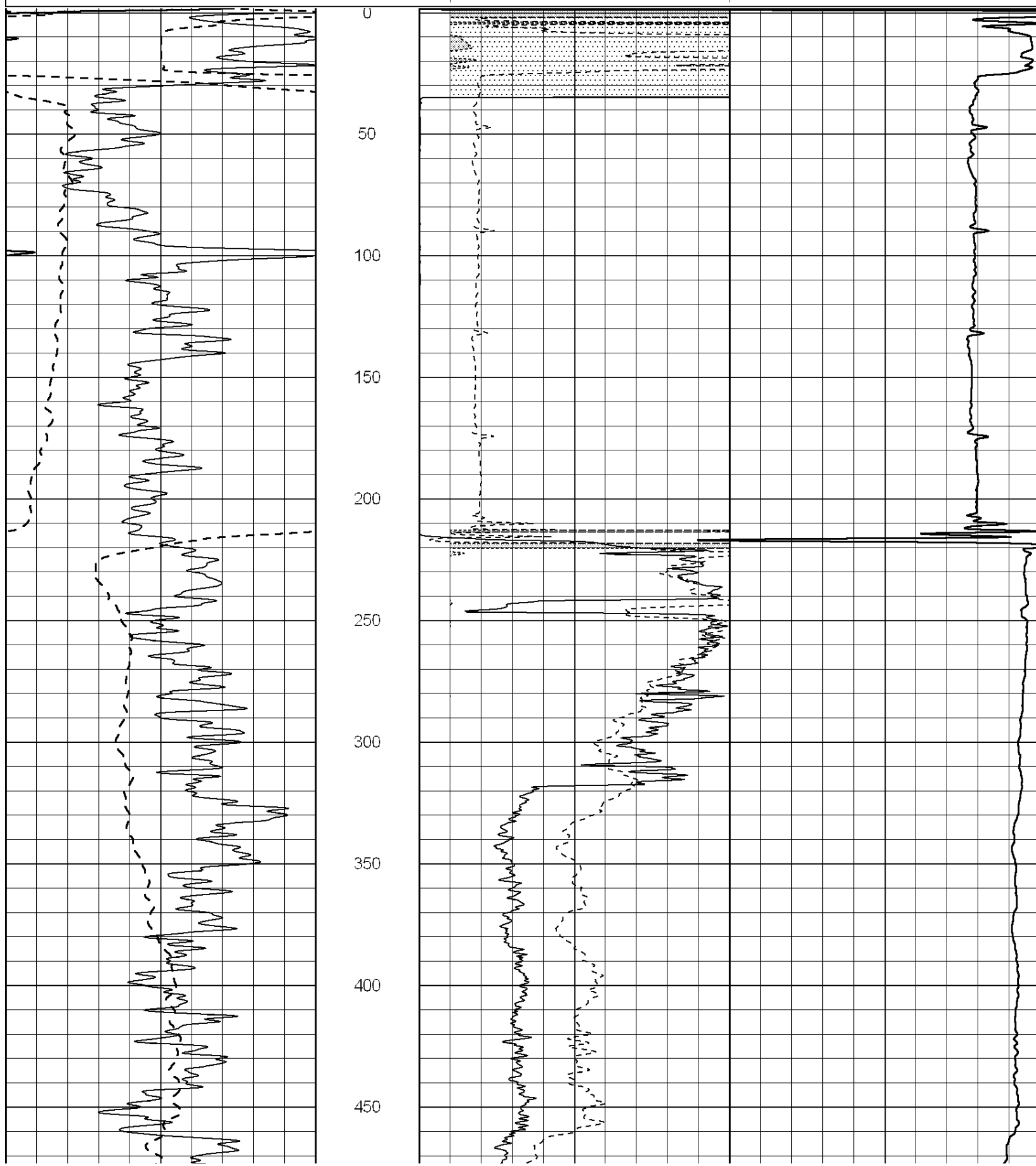
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

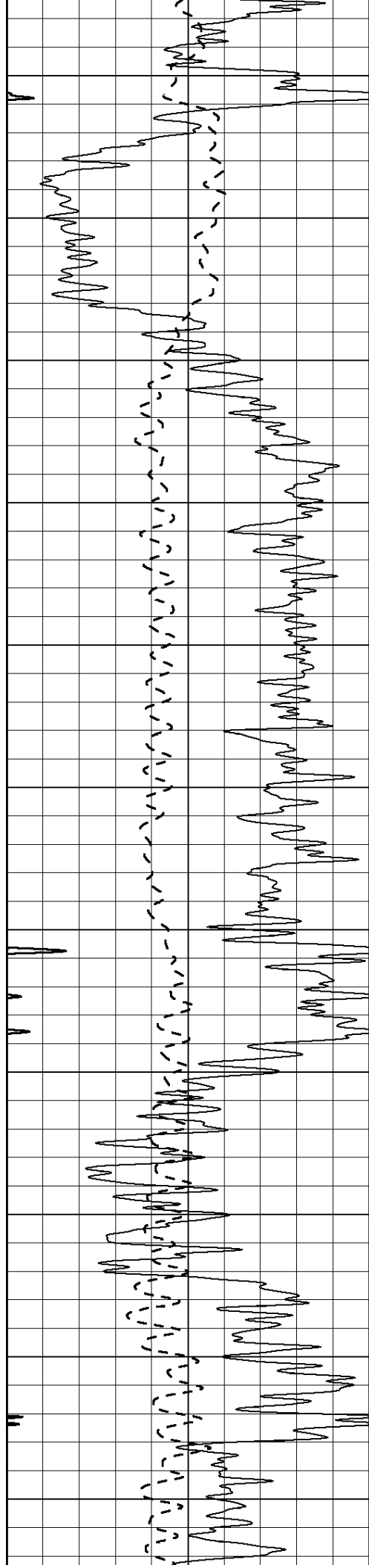
Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: ST. PETER, KS. - 1 MILE NORTH TO RD. F WEST TO THE END OF THE ROAD - FOLLOW
LEASE RD. WEST 1/2 MILE SOUTH INTO

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





500

550

600

650

700

750

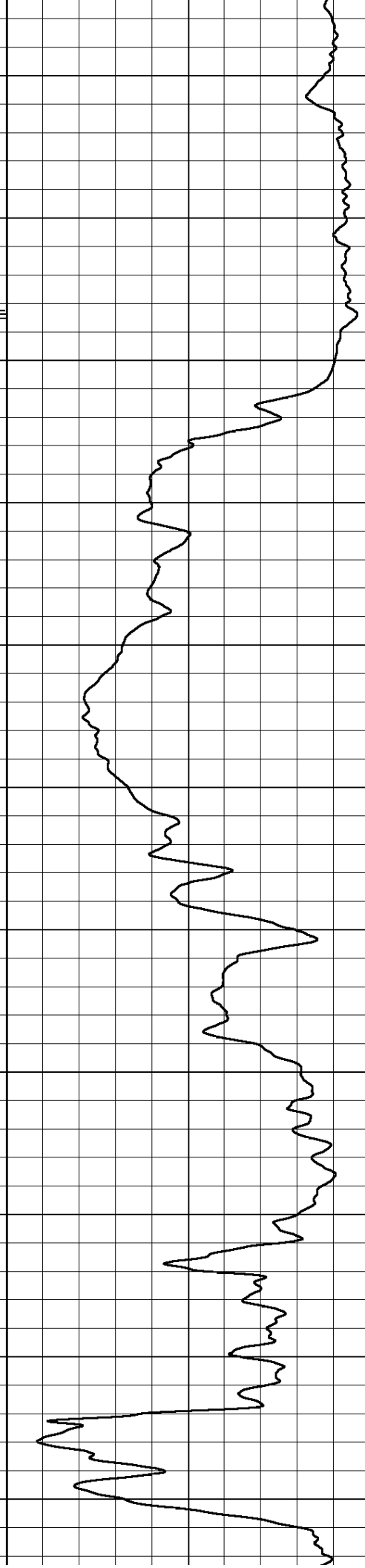
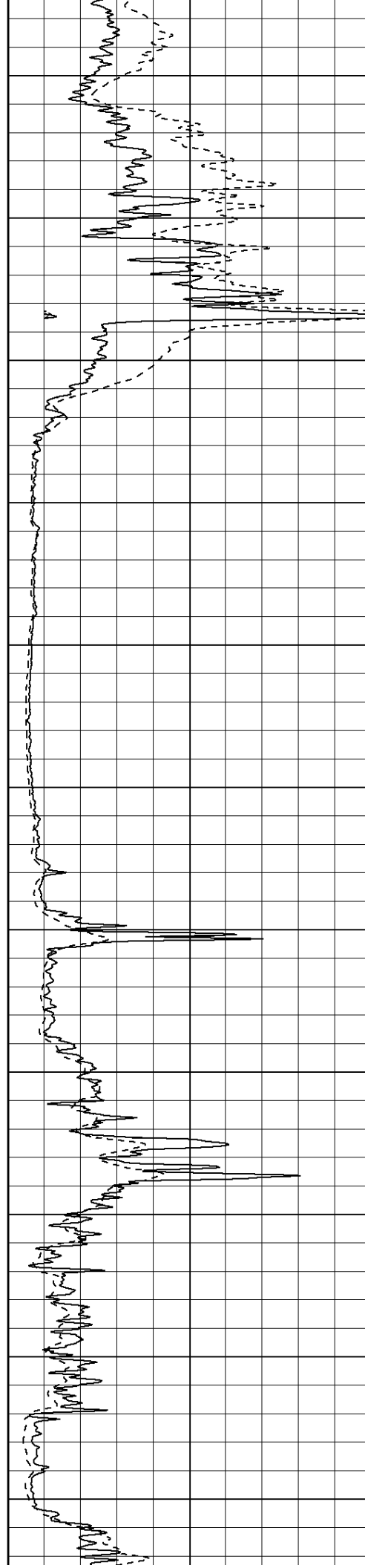
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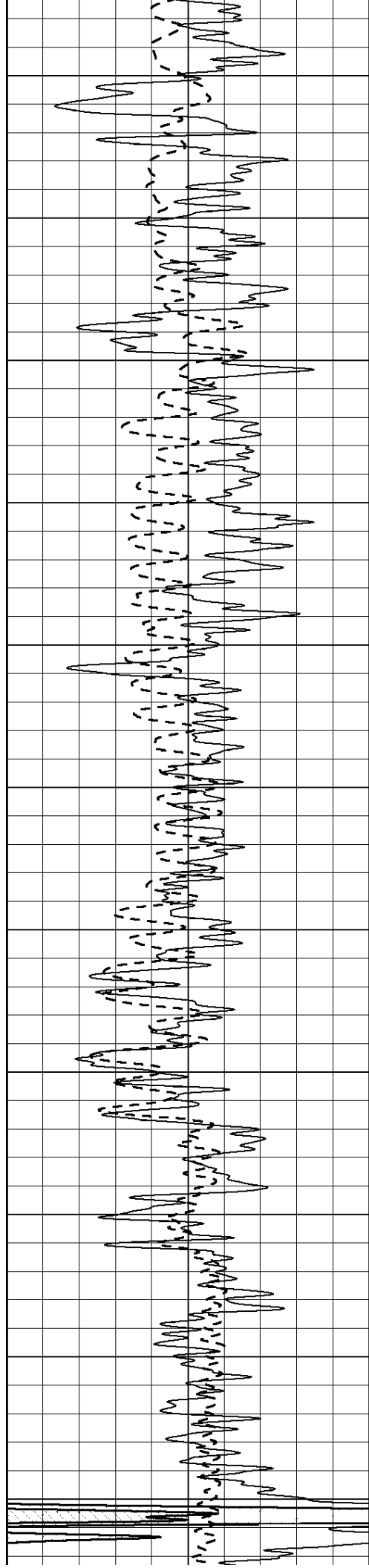
850

900

950

1000





1050

1100

1150

1200

1250

1300

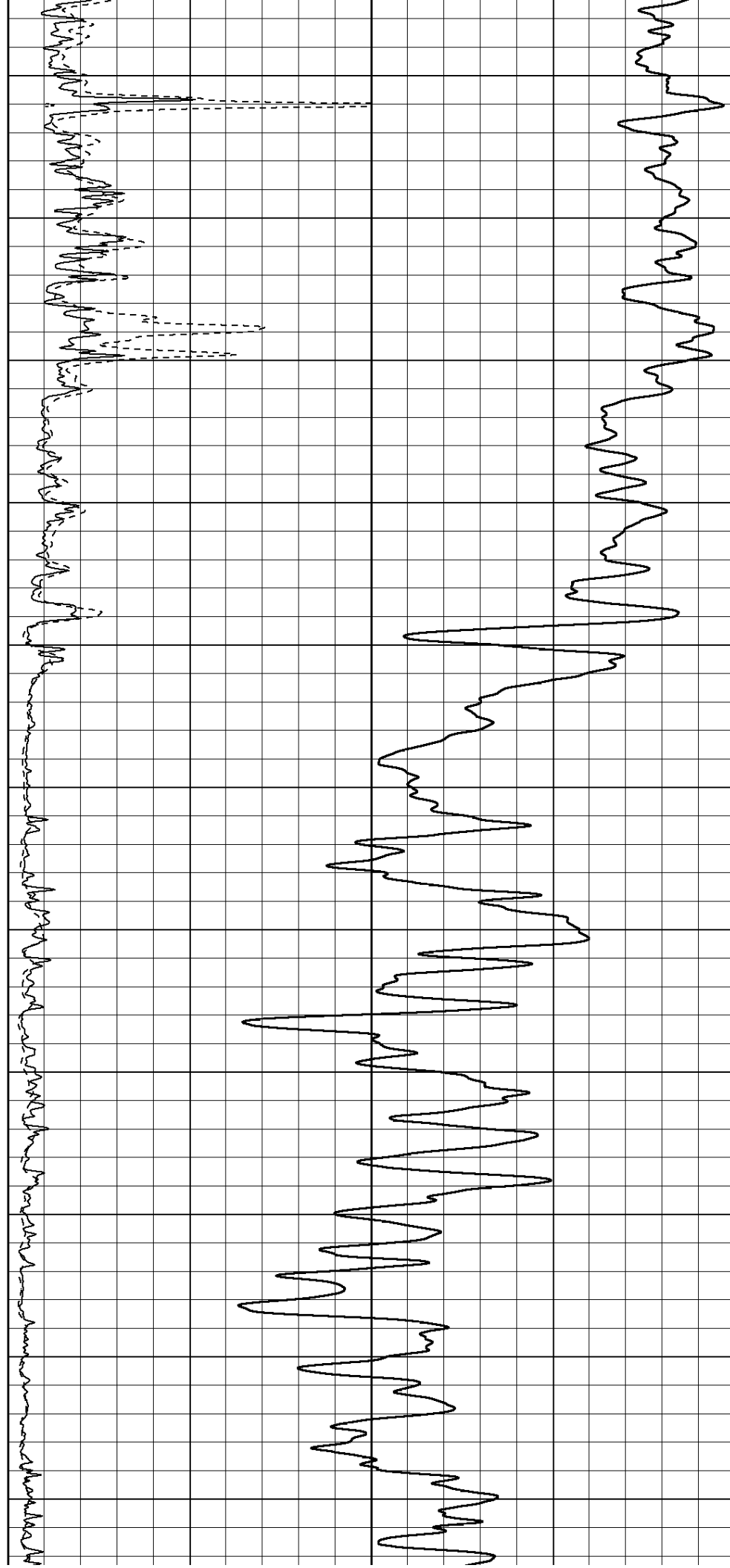
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1400

1450

1500

1550



1600

1650

1700

1750

1800

1850

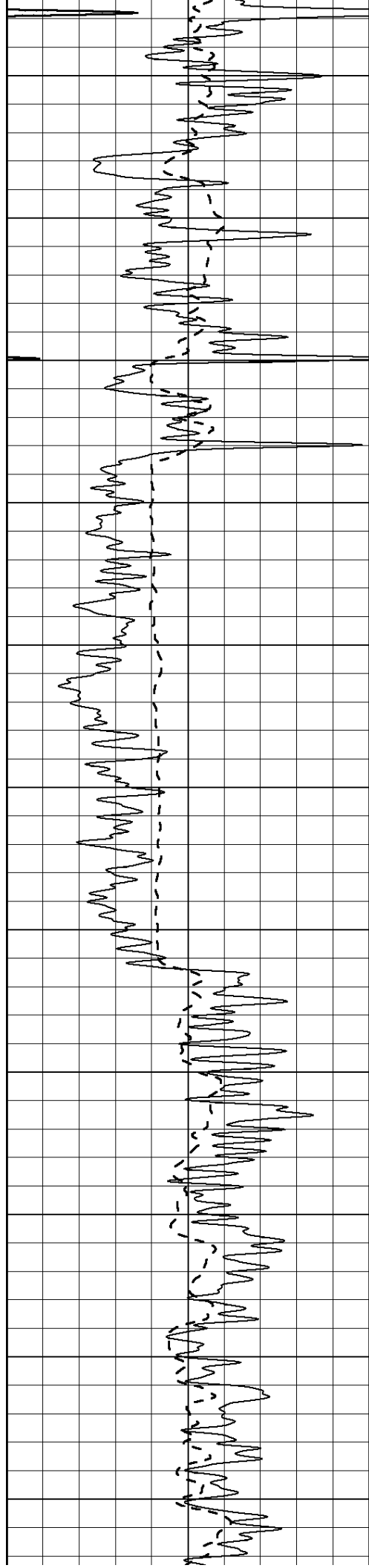
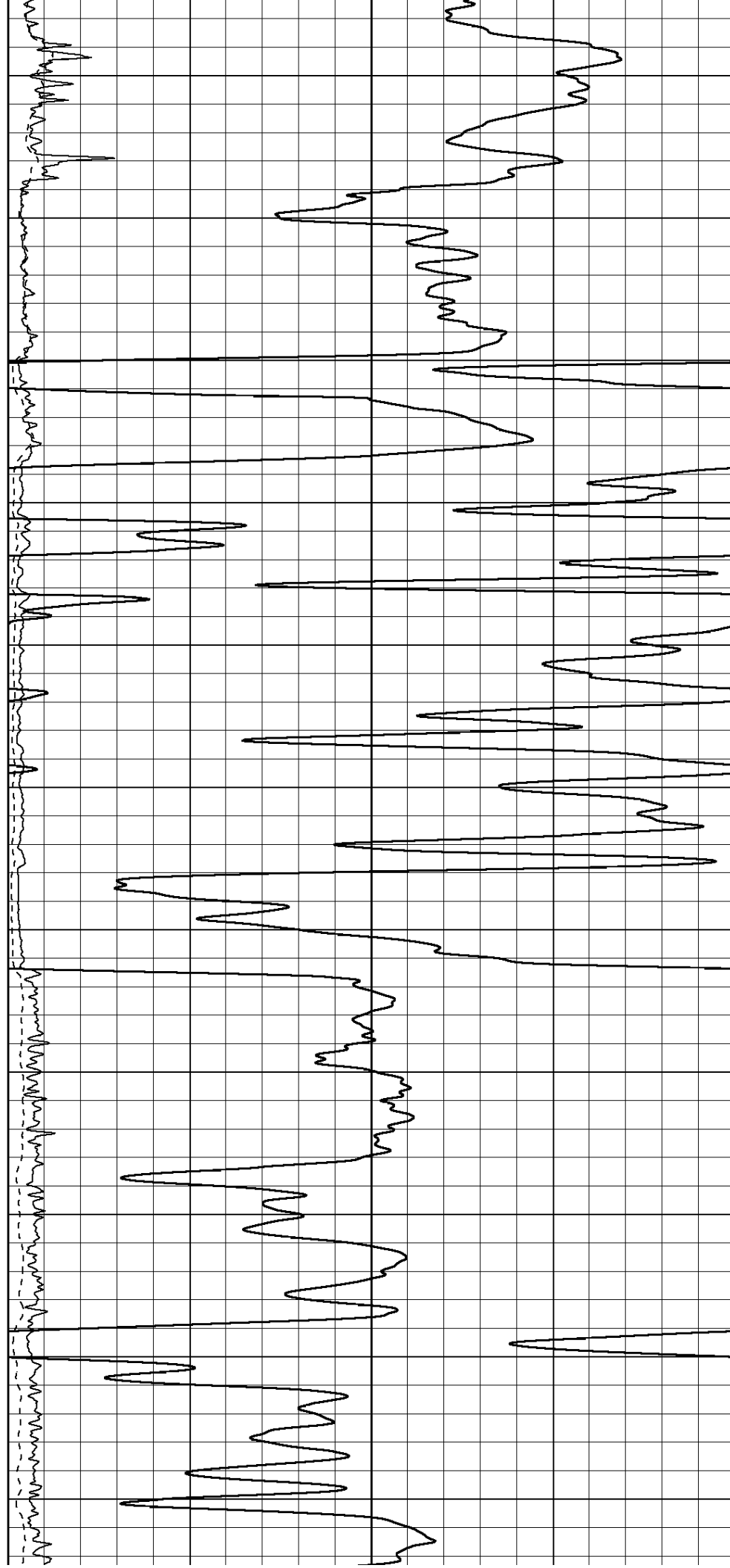
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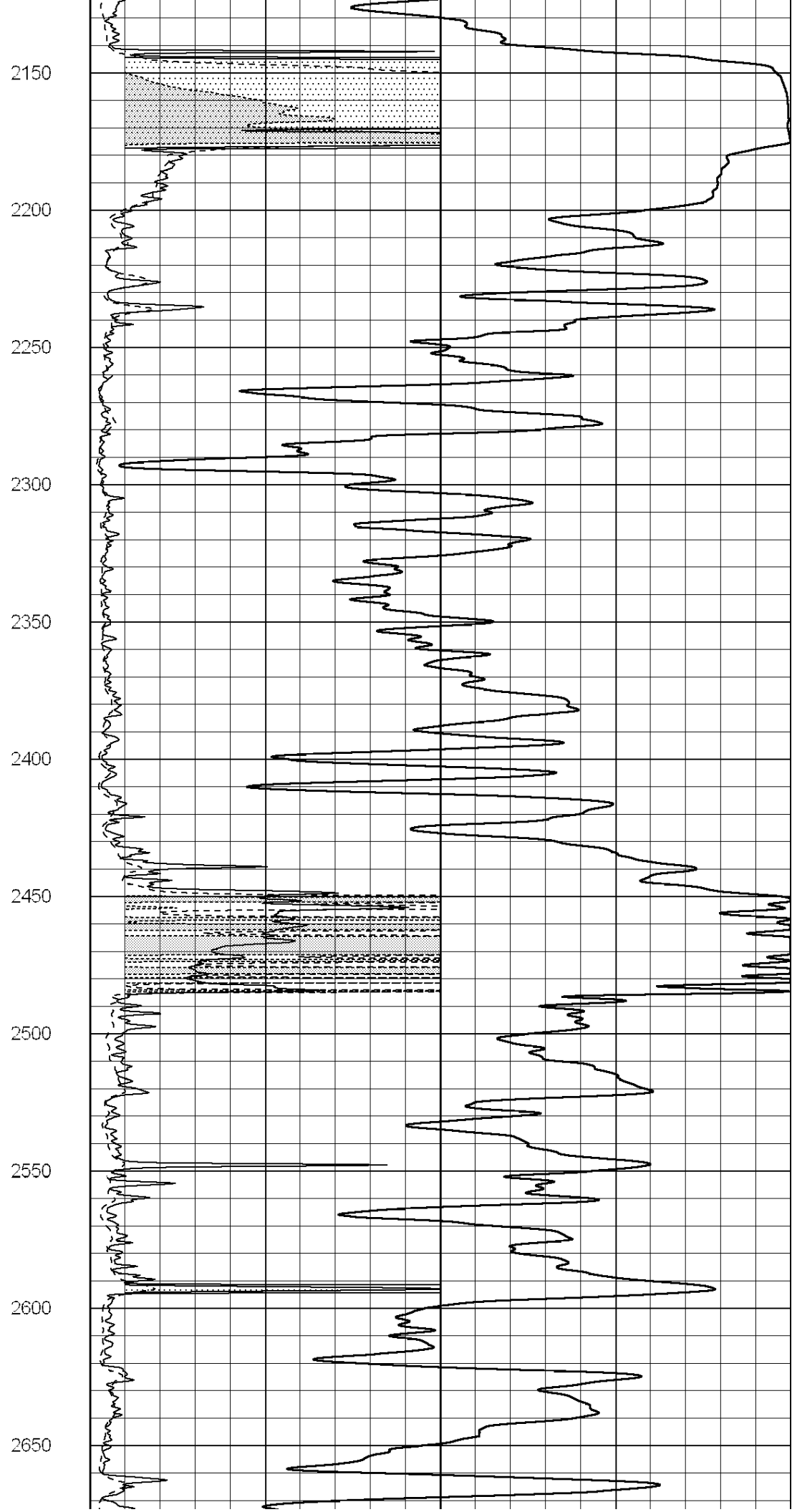
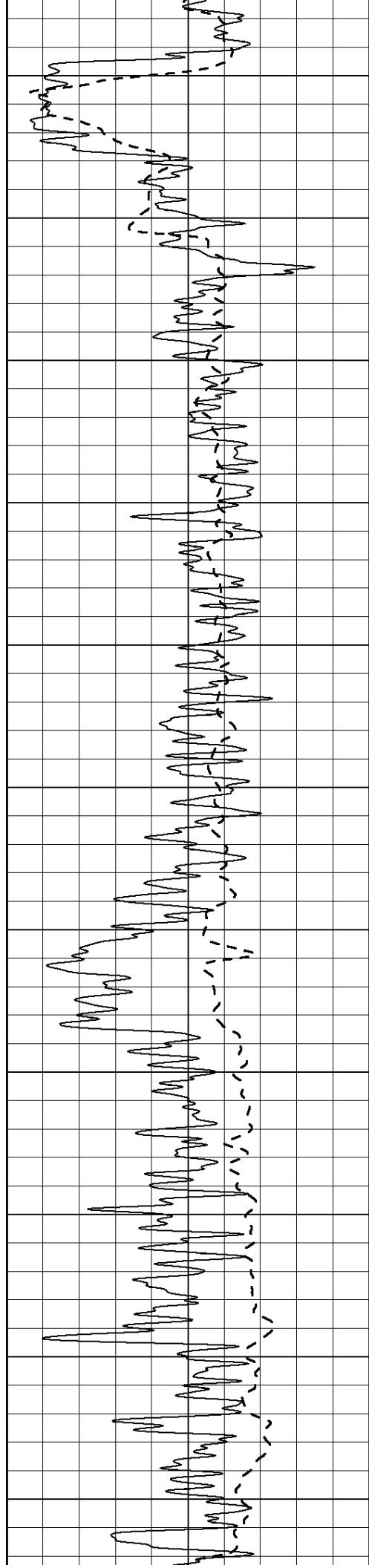
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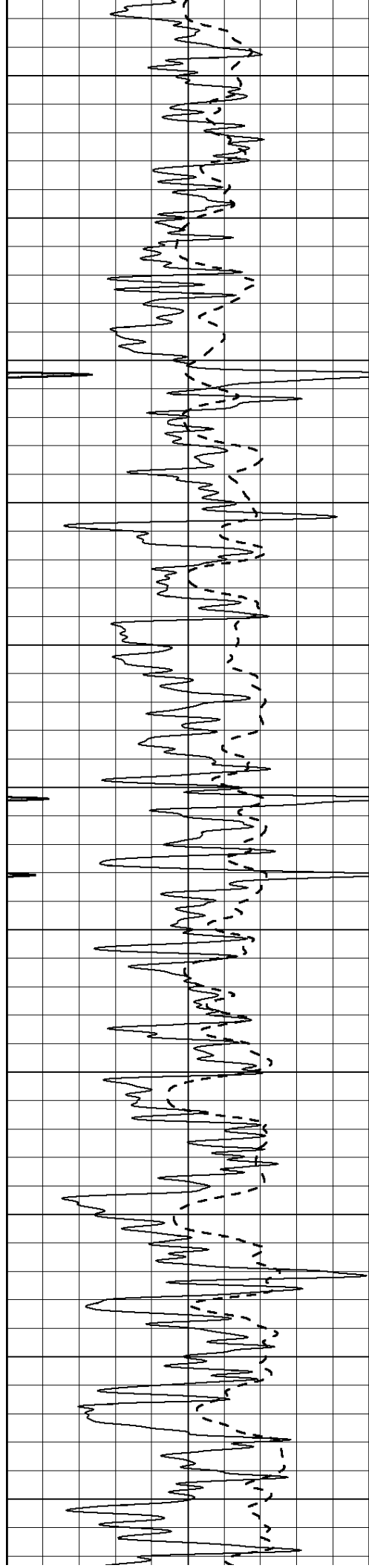
2000

2050

2100







2700

2750

2800

2850

2900

2950

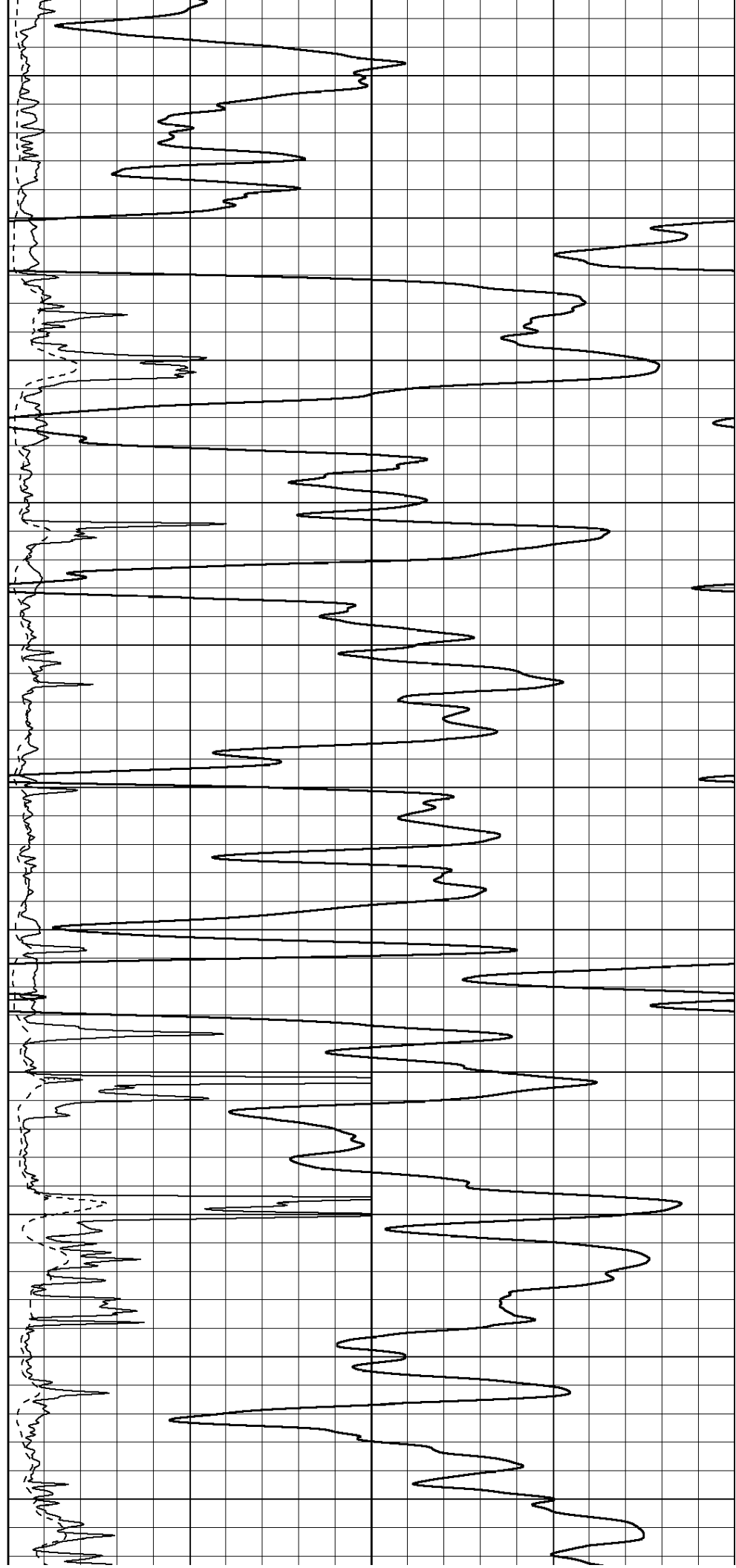
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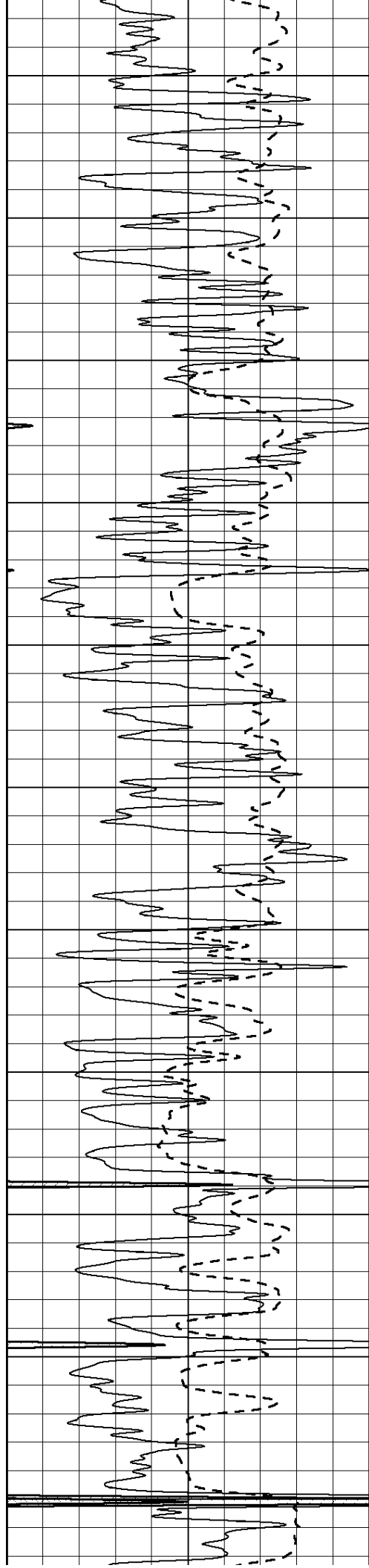
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3100

3150

3200





3250

3300

3350

3400

3450

3500

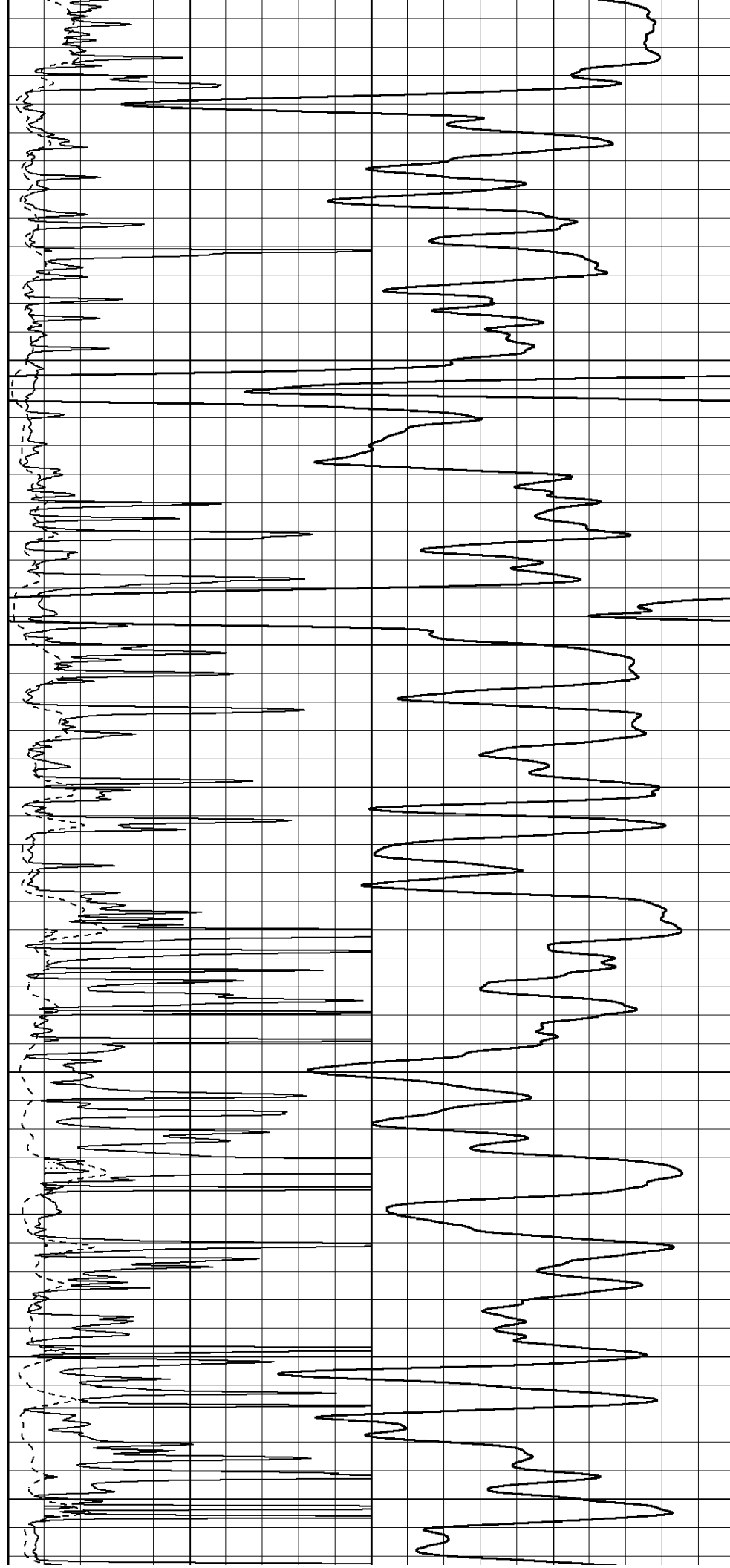
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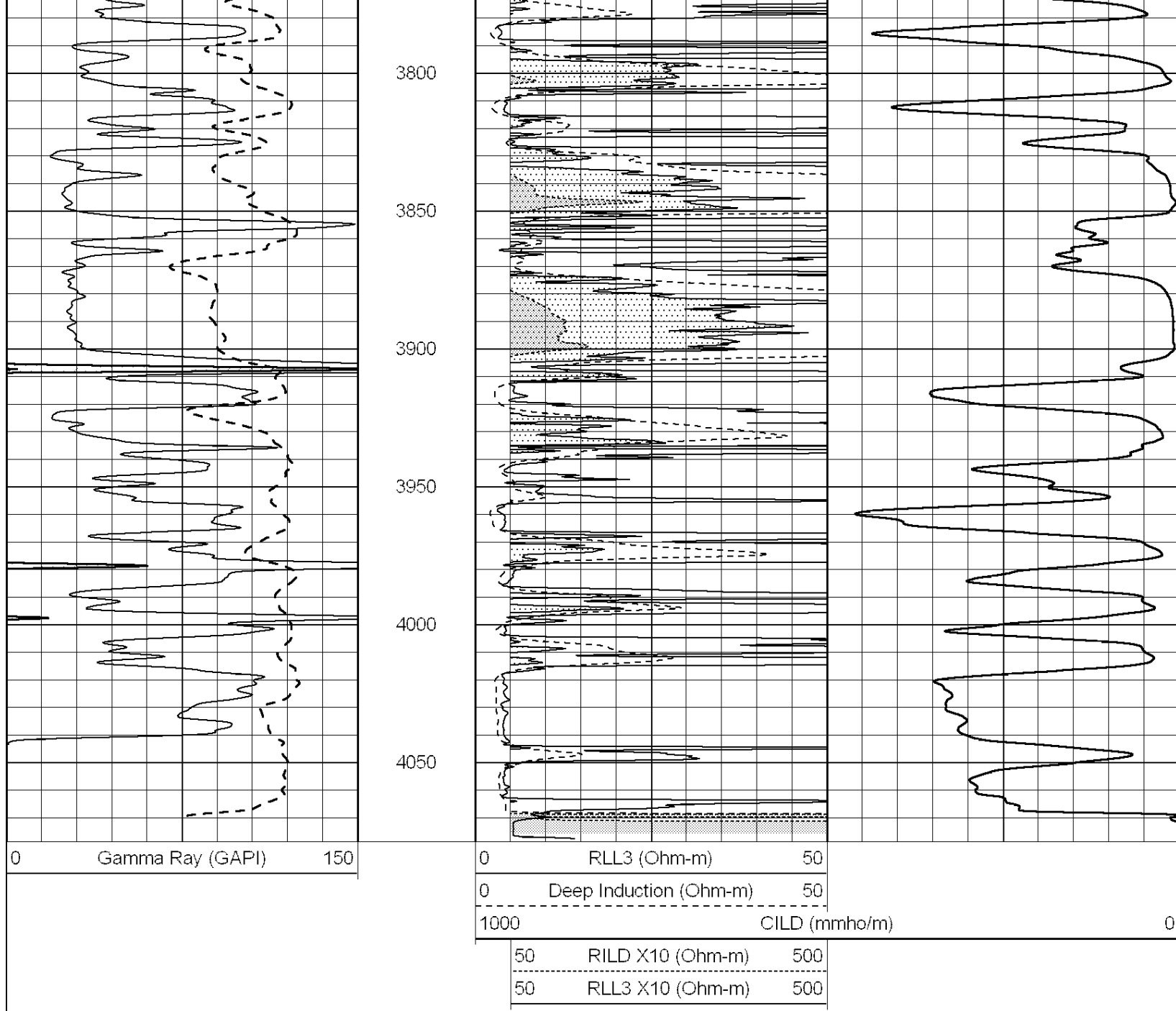
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3650

3700

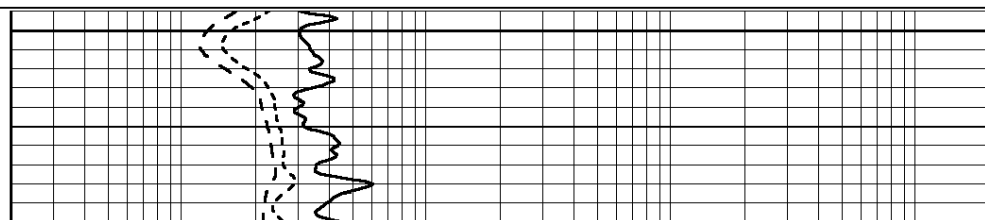
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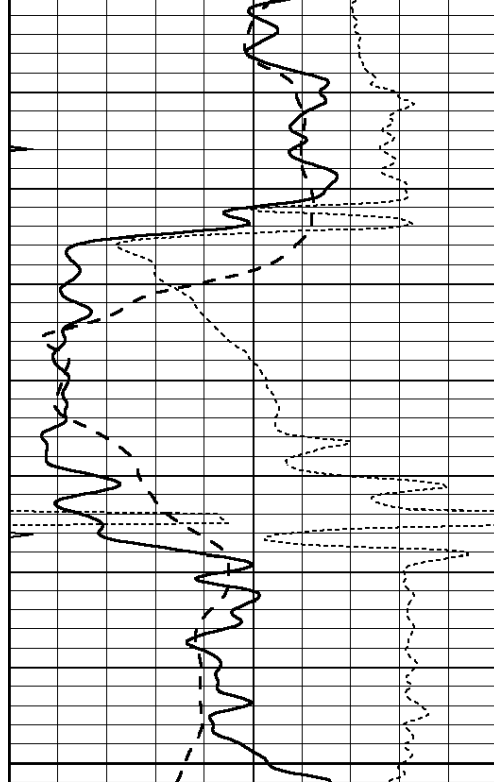




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 Presentation Format: _dil
 Dataset Creation: Tue Jun 04 07:01:54 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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			

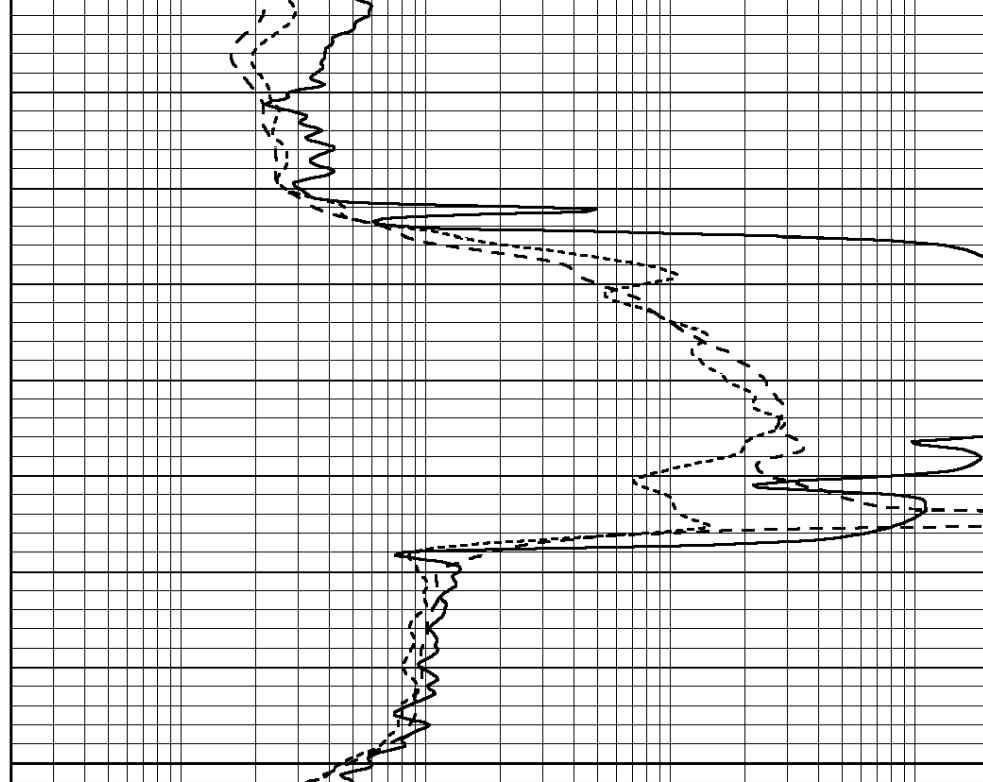




2150

2200

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

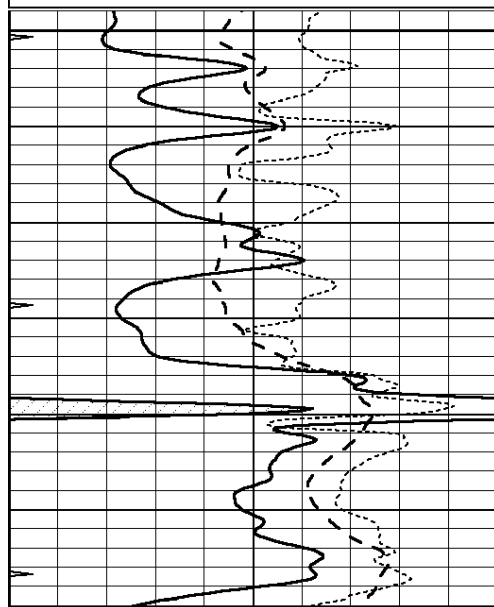


0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

Database File: 010186ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: _dil
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 Charted by: Depth in Feet scaled 1:240

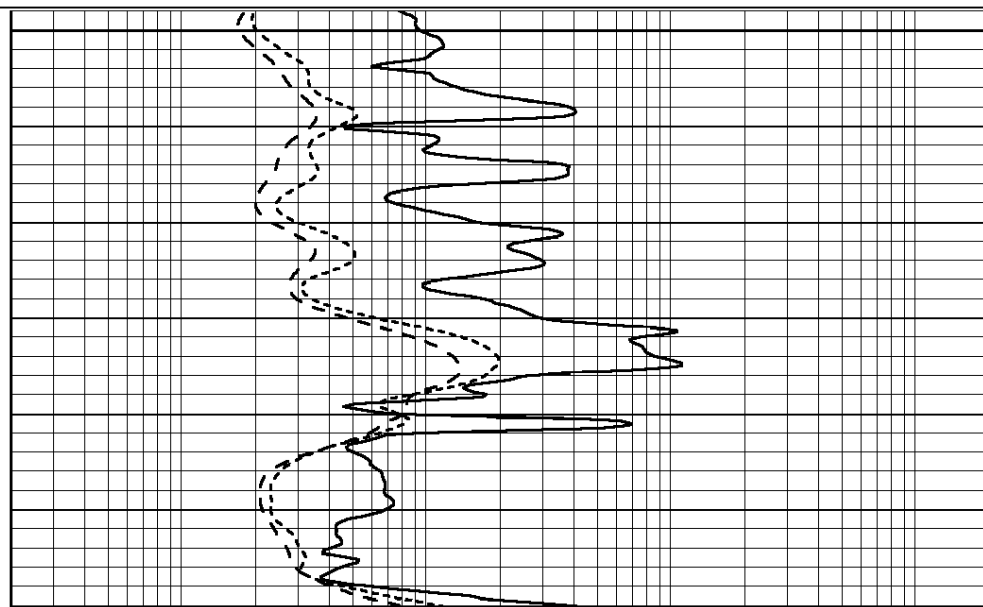
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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

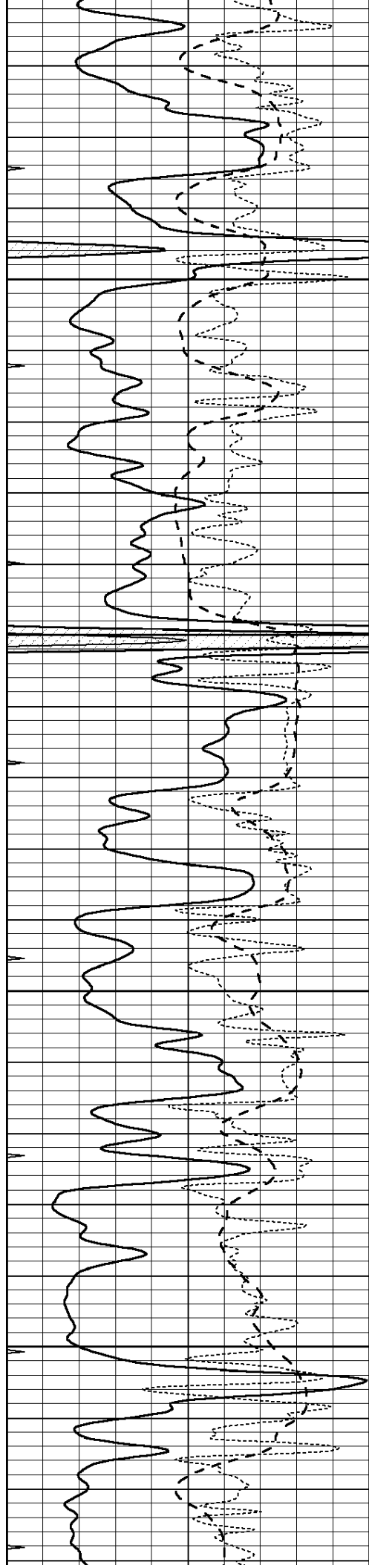
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3600

3650



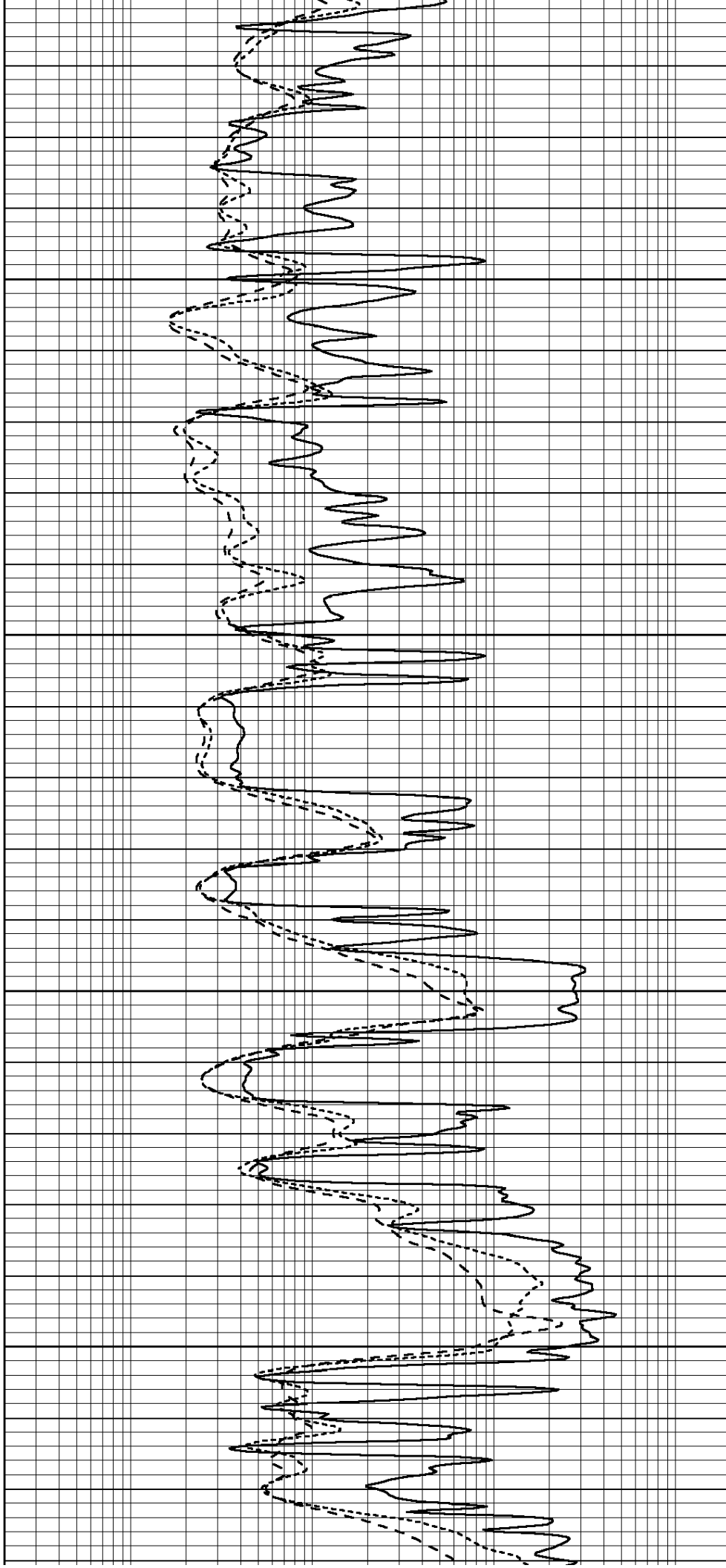


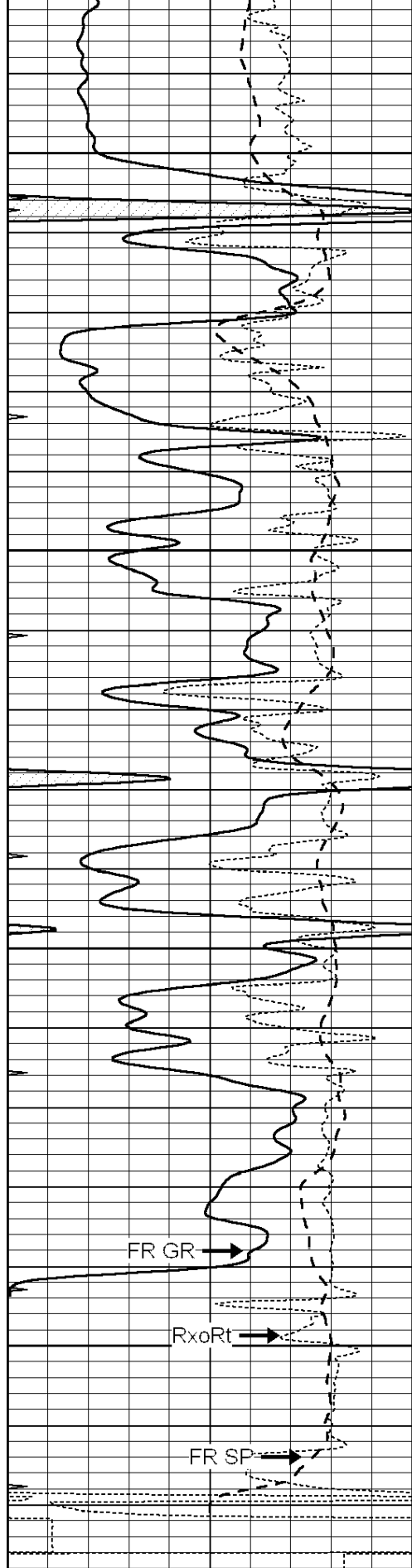
3700

3750

3800

3850





3900

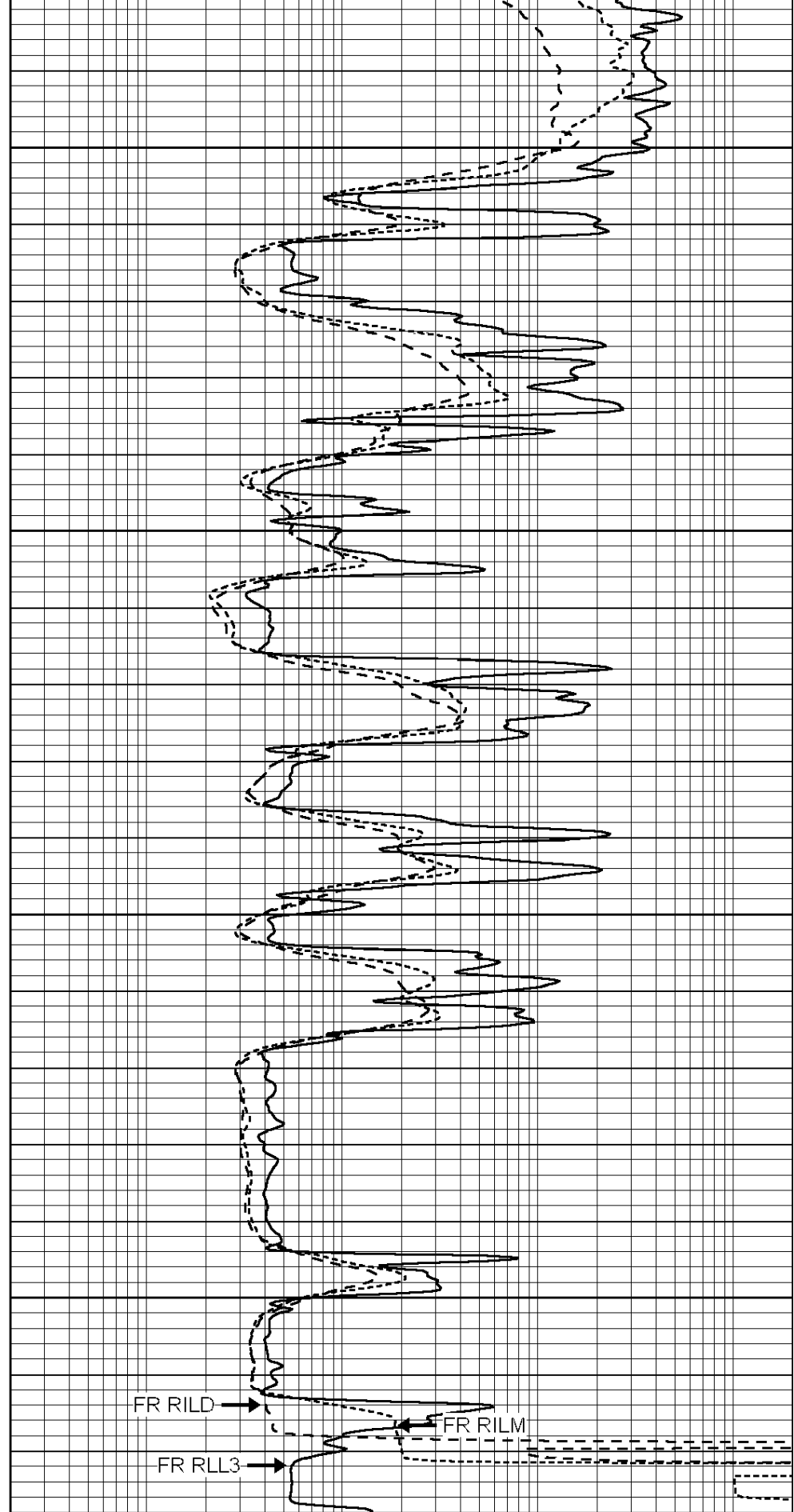
3950

4000

4050

LTD 4074

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



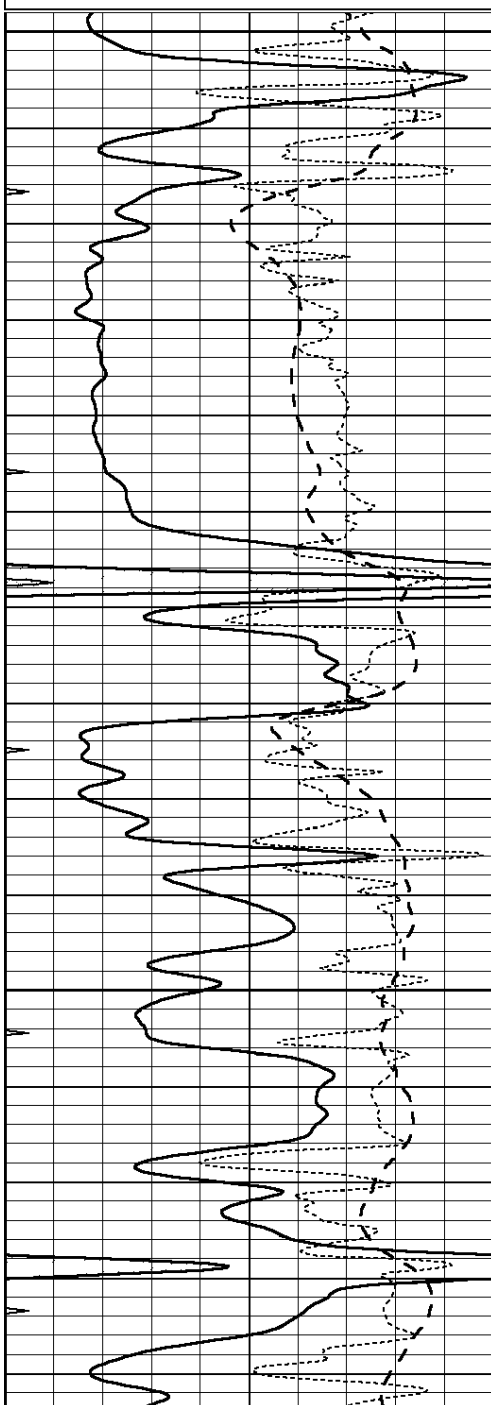
**COMPLETION
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REPEAT SECTION

Database File: 010186ddn.db
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Presentation Format: _dil
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Charted by: Depth in Feet scaled 1:240

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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

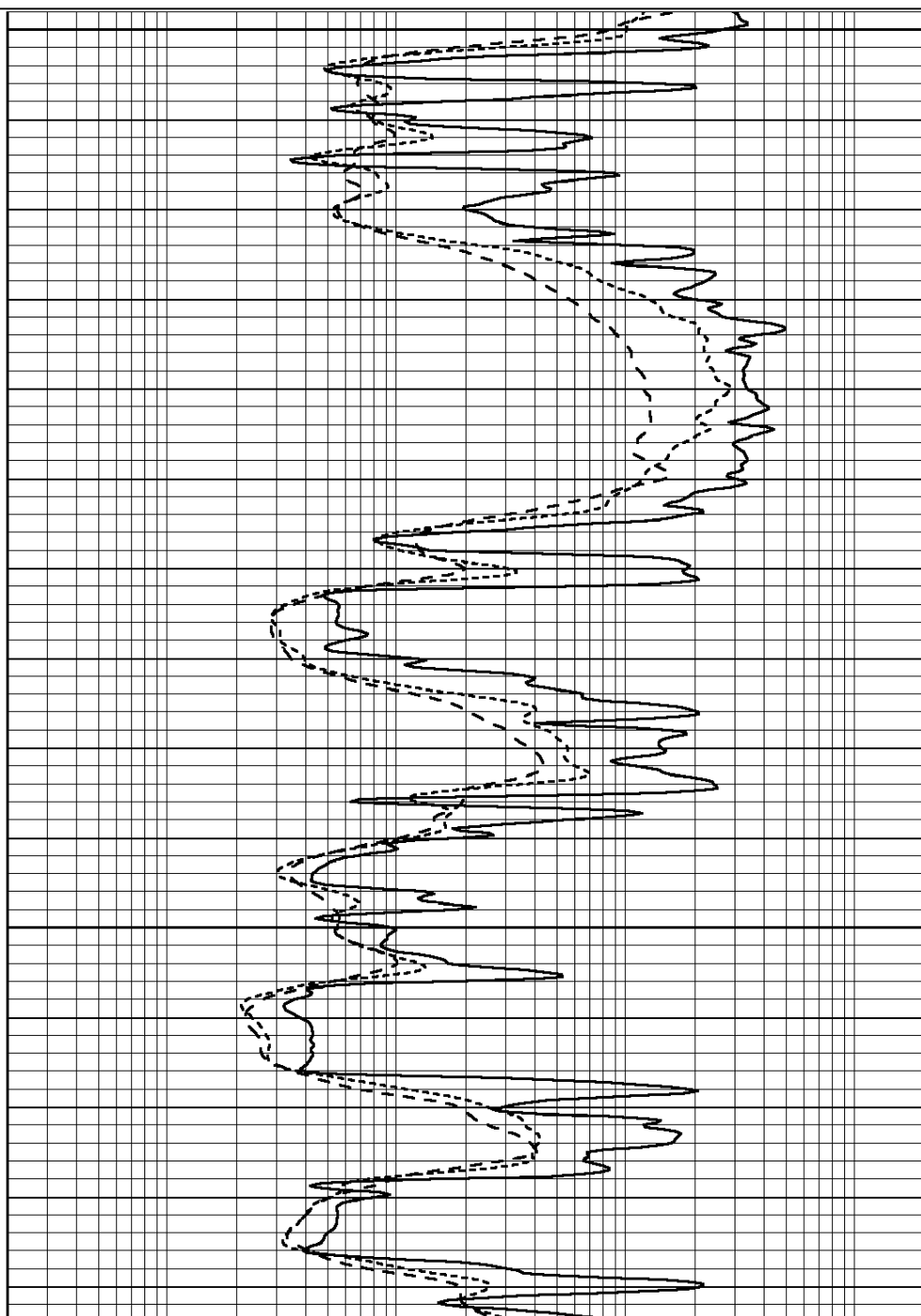
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

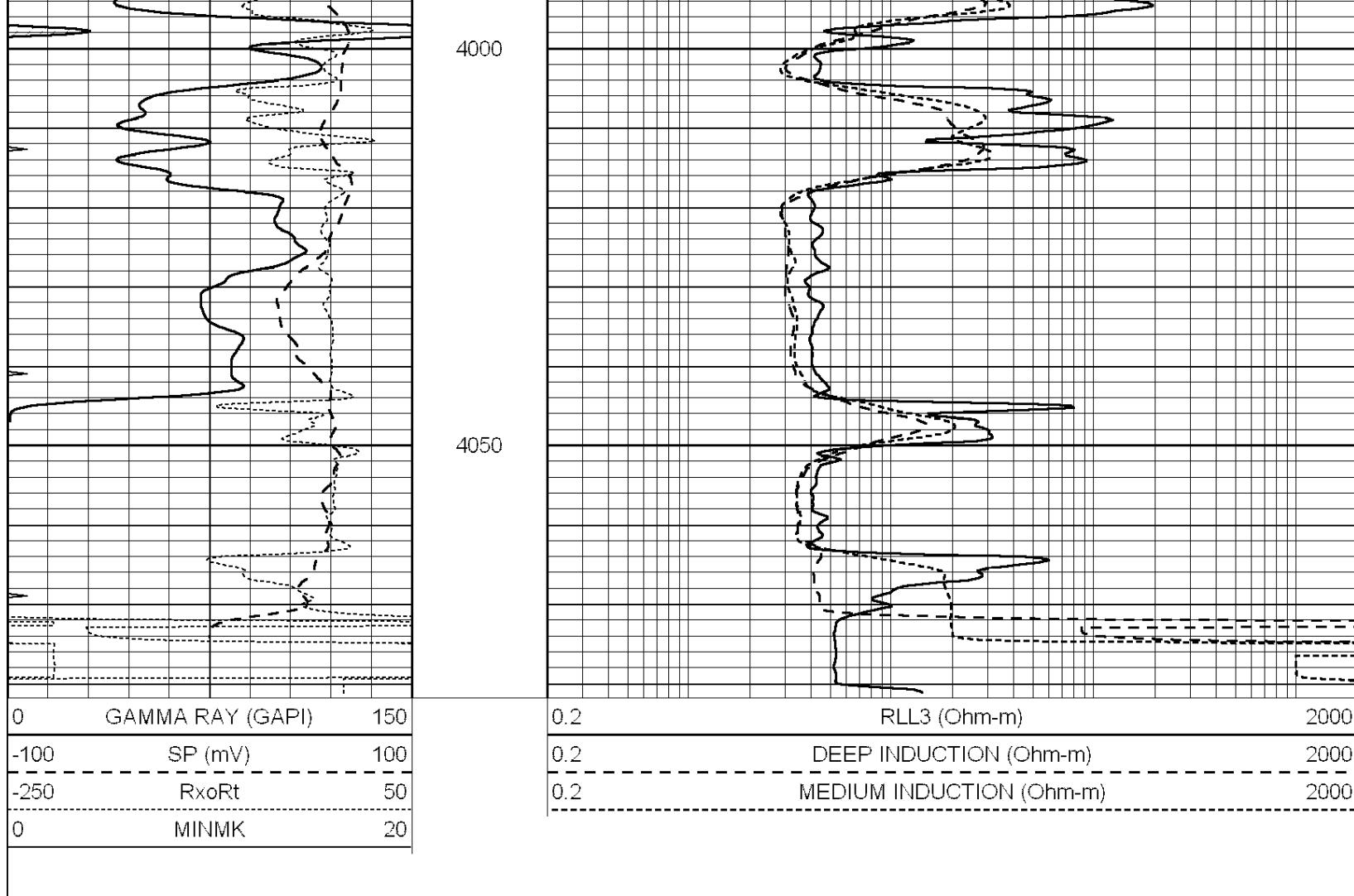


3850

3900

3950





Calibration Report

Database File: 010186ddn.db
 Dataset Pathname: pass3.2
 Dataset Creation: Tue Jun 04 07:01:54 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Sun May 19 13:30:40 2013
 Downhole Cal Performed: Sat Jan 19 19:51:38 2013
 After Survey Verification Performed: Sat Jan 19 19:51:38 2013

Surface Calibration

		Readings					References		Results	
Loop:	Air	Loop		Air	Loop				m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m			620.000	7.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m			660.000	-38.000
Internal:	Zero	Cal		Zero	Cal				m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m			664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m			604.936	-21.367

Downhole Calibration

		Readings					References		Results	
	Zero	Cal		Zero	Cal				m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m			1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m			1.000	-10.154

Medium	17.000.100	0.000.100	mmho/m	17.027.100	0.000.100	mmho/m	17.000	10.100
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		

After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Compensated Density Calibration Report

Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Mon May 13 17:25:39 2013

Master Calibration						
	Density			Far Detector		
					Near Detector	
Magnesium	1.710	g/cc		1205.77	610.74	cps
Aluminum	2.600	g/cc		271.21	419.72	cps
Spine Angle = 75.89				Density/Spine Ratio = 0.579		
	Size			Reading		
Small Ring	7.70	in		4.69	V	
Large Ring	14.00	in		6.52	V	

Compensated Neutron Calibration Report

Serial Number:	NEU_4I
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:	Fri May 31 12:01:32 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9500	GAPI/cps