



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	VINCENT OIL CORP.		
Well	HAWES RANCH #1-22		
Field	GREAT MOGUL CANYON		
County	FORD	State	KANSAS
Location:	API # : 15-057-20905-0000 1788' FNL & 1300' FEL SW - NW - SE - NE		Other Services CNL/CDL/PE MEL/SON
Permanent Datum	SEC 22	TWP 28S	RGE 23W
Log Measured From	GROUND LEVEL		Elevation 2466
Drilling Measured From	KELLY BUSHING 12' A.G.L.		K.B. 2478 D.F. 2476 G.L. 2466
Date	8/3/13		
Run Number	ONE		
Depth Driller	5350		
Depth Logger	5350		
Bottom Logged Interval	5348		
Top Log Interval	0		
Casing Driller	8 5/8" @ 646'		
Casing Logger	640'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,800 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.0/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.40 @ 89F		
Rmf @ Meas. Temp	0.30 @ 89F		
Rmc @ Meas. Temp	0.48 @ 89F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.28 @ 128F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	128F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	JIM HALL		

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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.

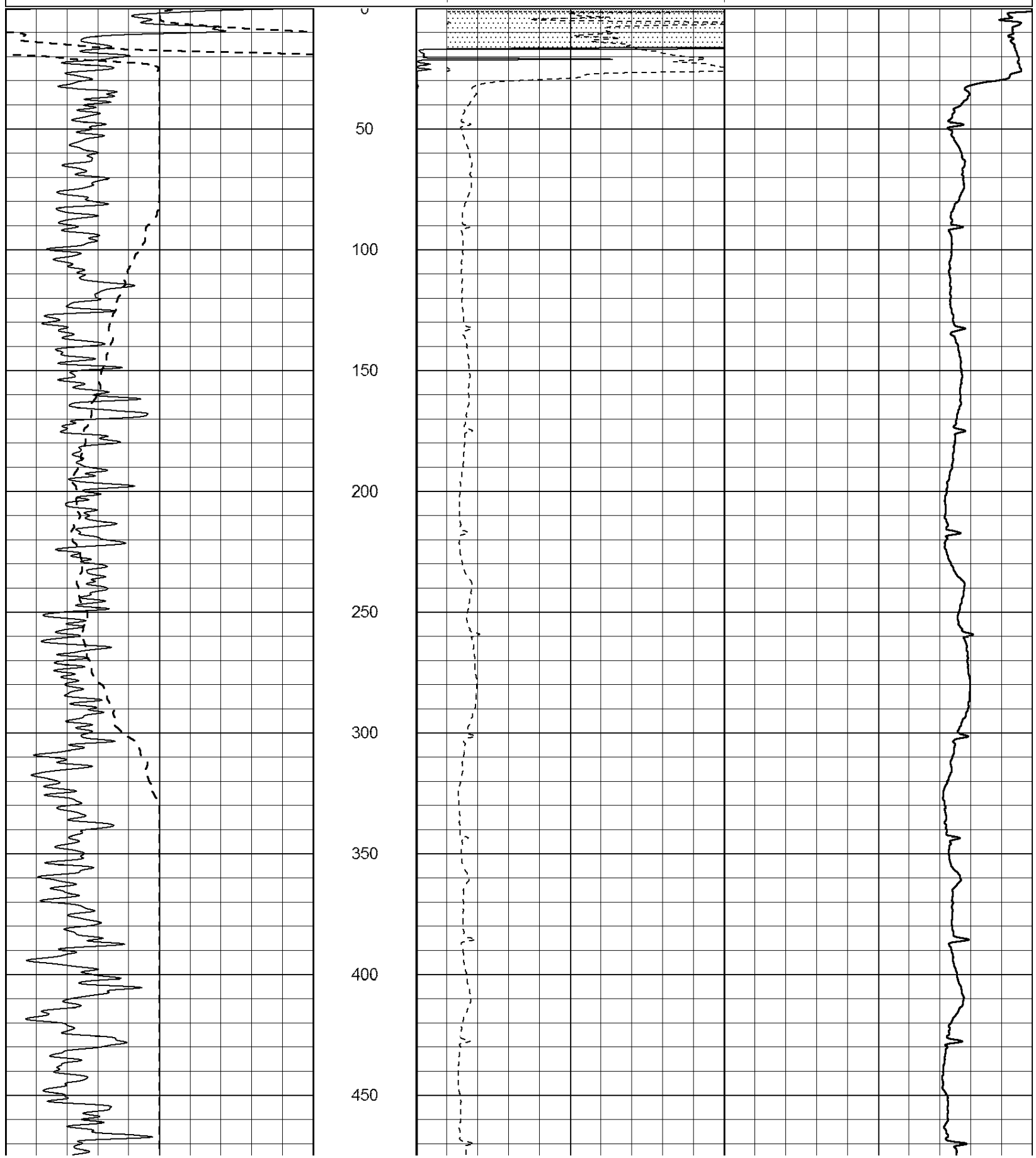
Comments

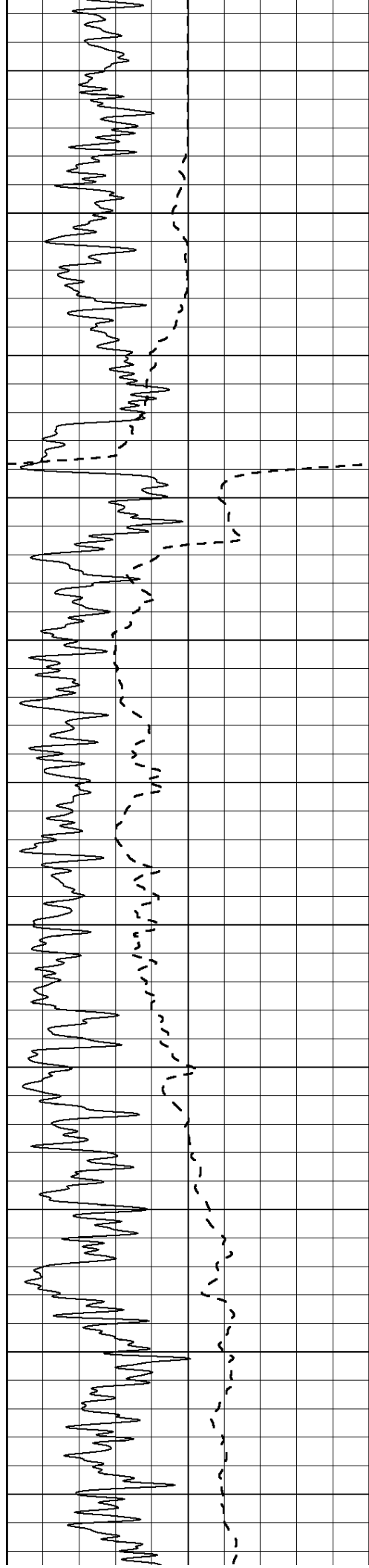
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
FORD, KS - NORTH TO SADDLE RD - 2 MILES WEST TO RD 123 - 2 MILES SOUTH TO CURVE
1 MILE WEST TO RD 122 - 2 MILES SOUTH TO DEAD END - WEST OVER CATTLE GUARD 50 YRDS
SOUTH INTO

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

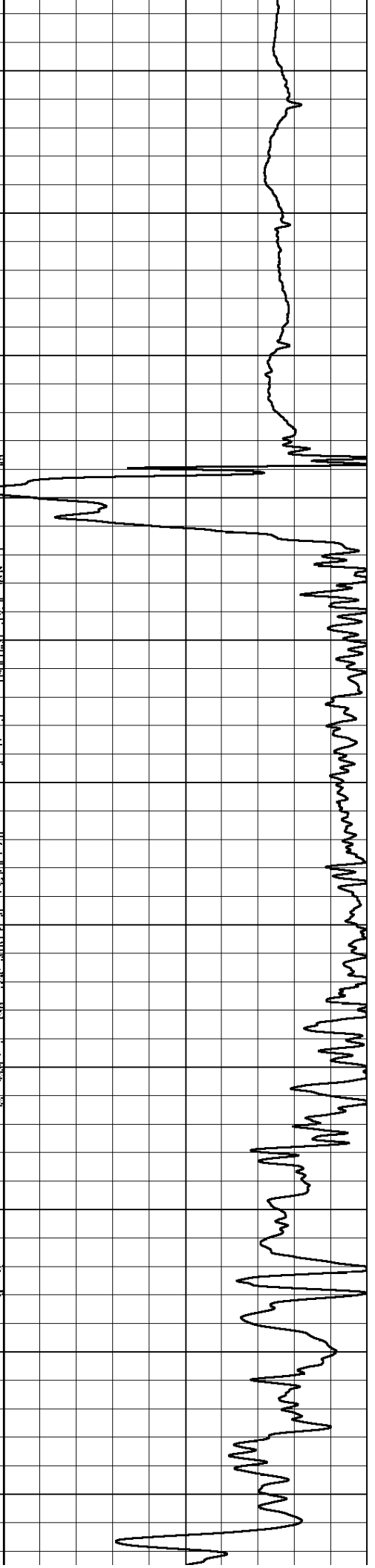
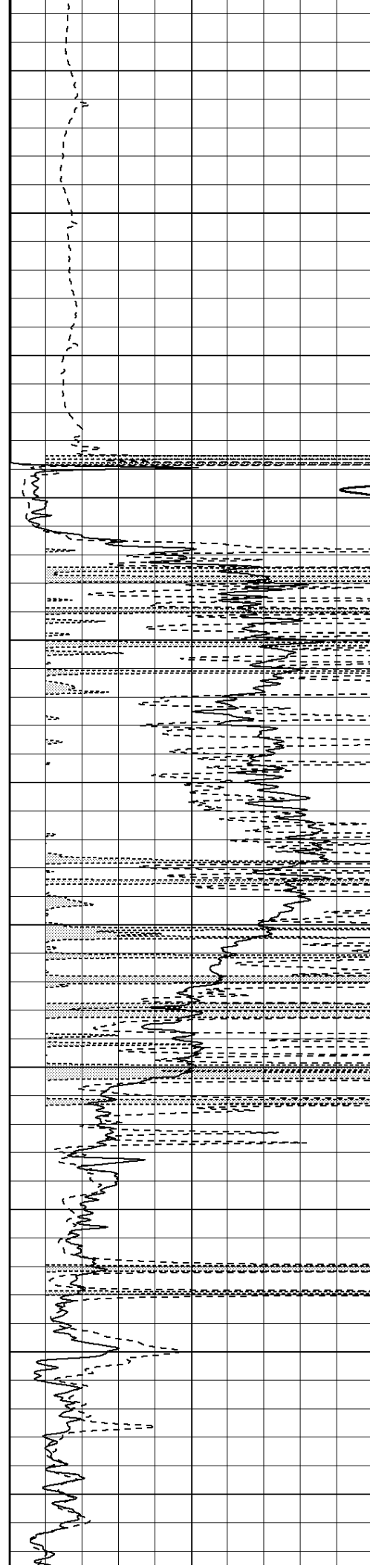
0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50

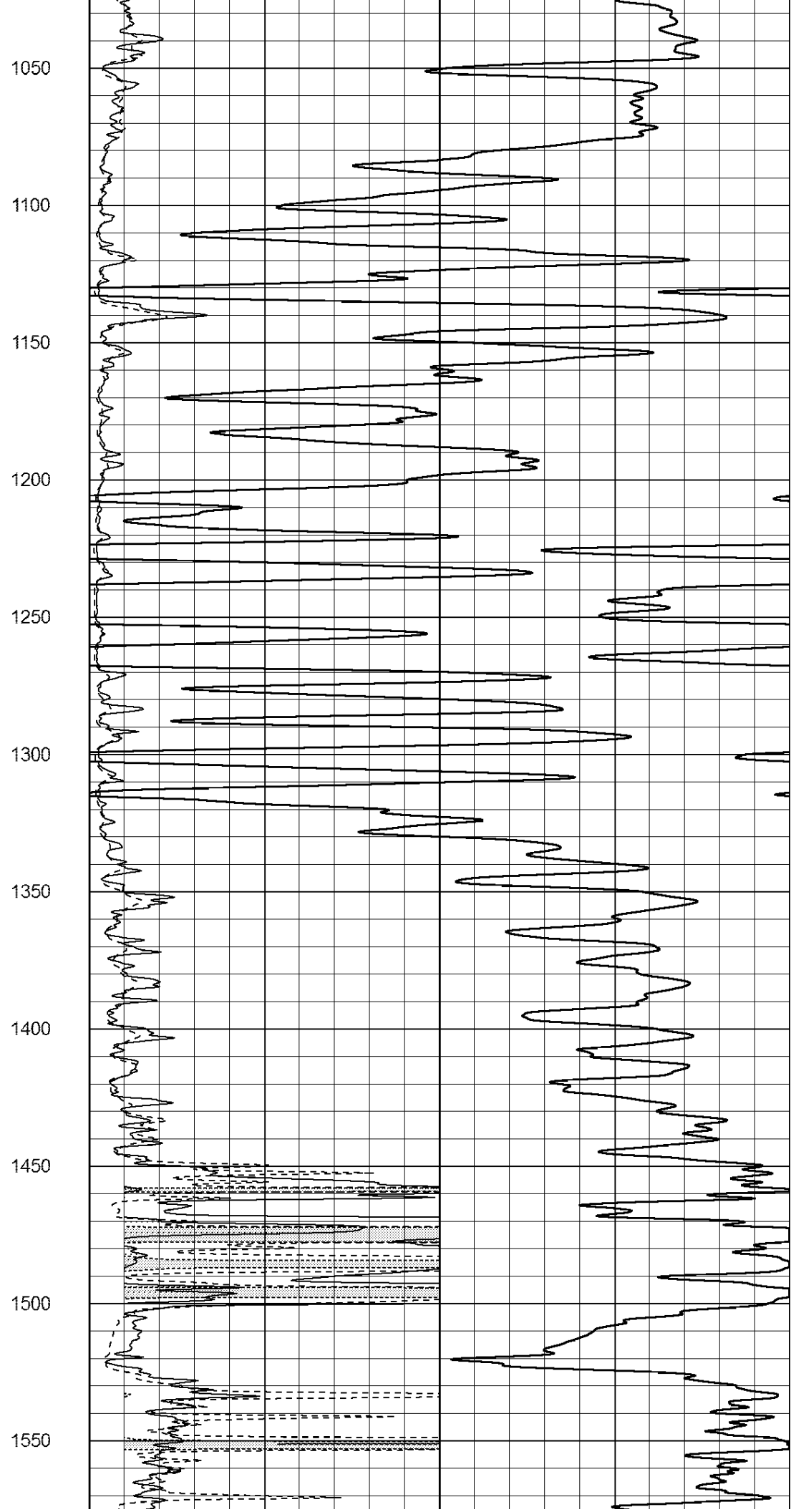
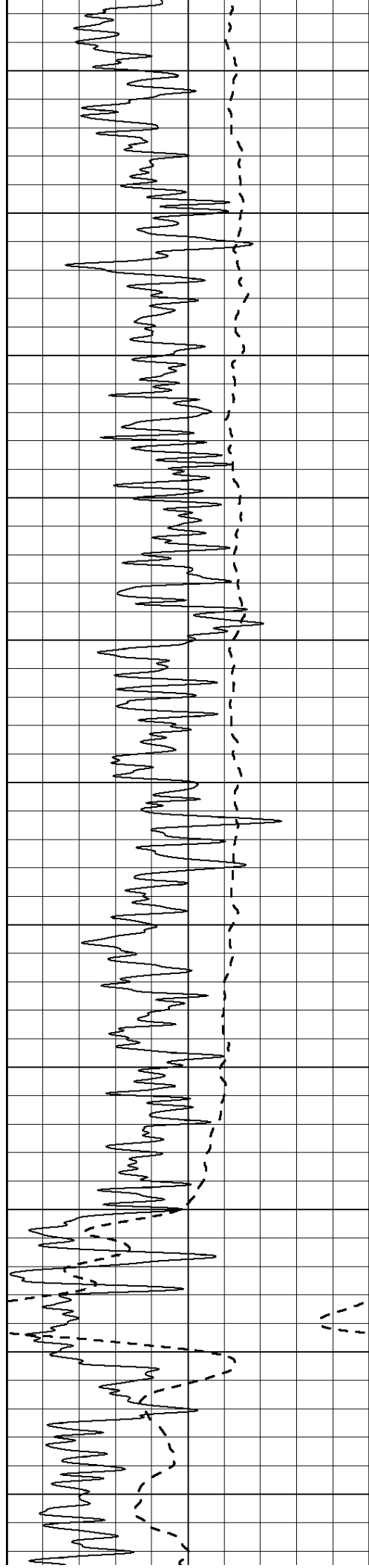
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

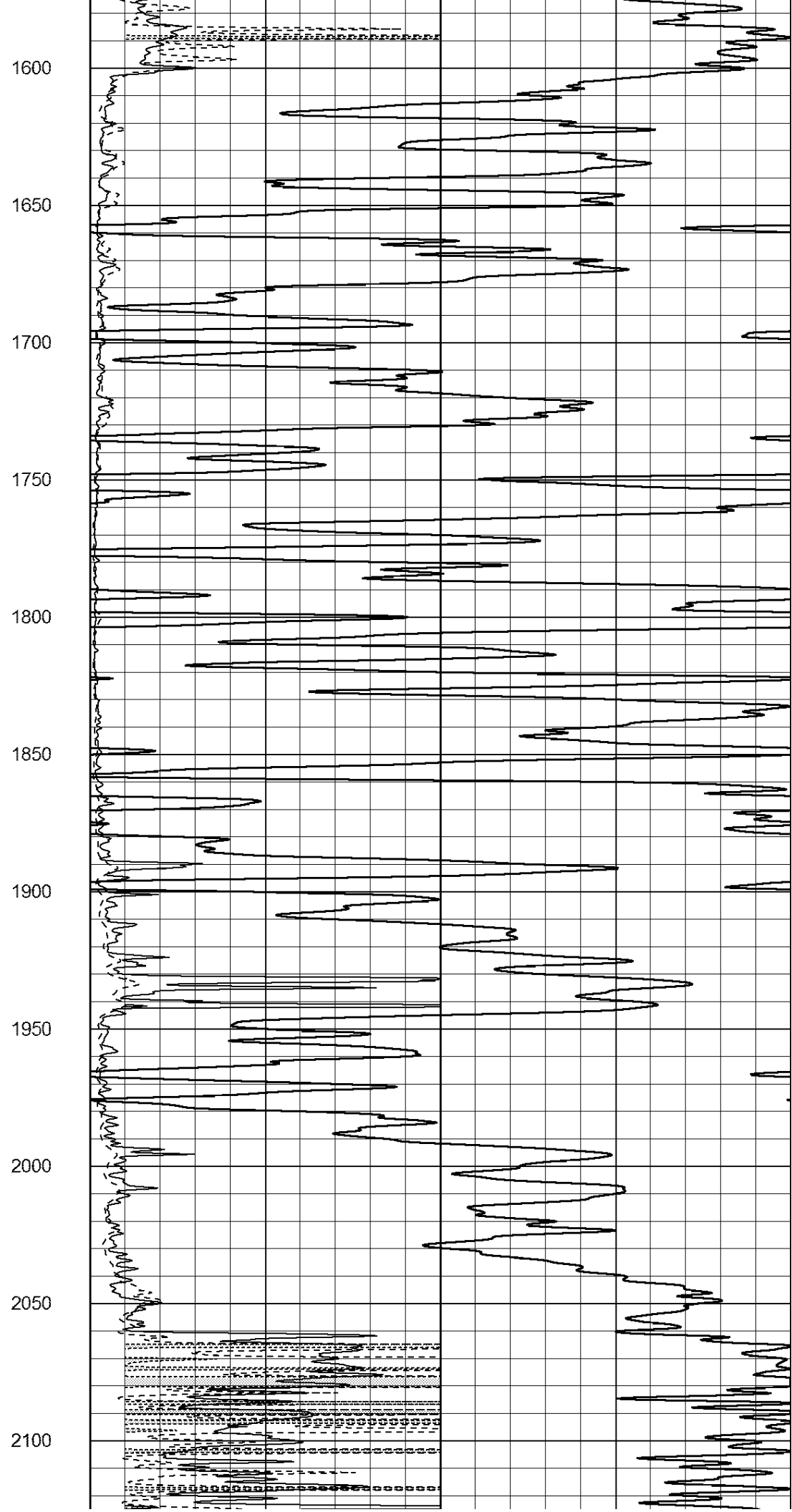
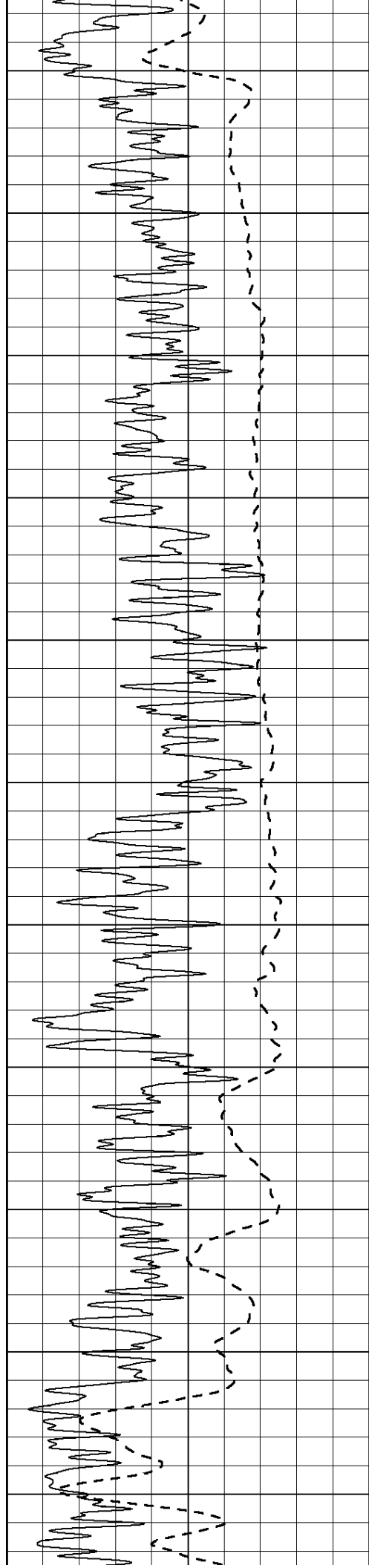


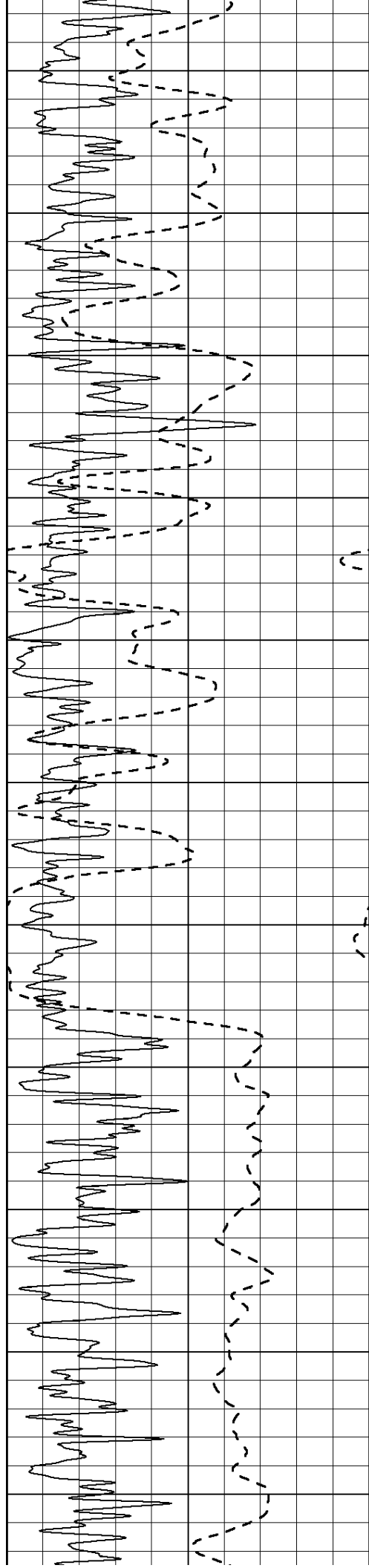


500
550
600
650
700
750
800
850
900
950
1000









2150

2200

2250

2300

2350

2400

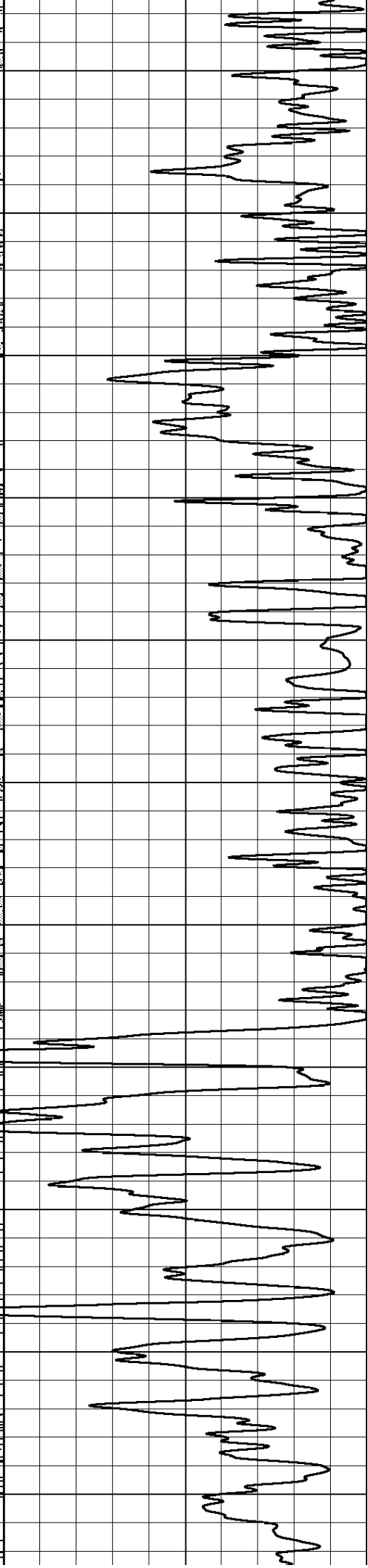
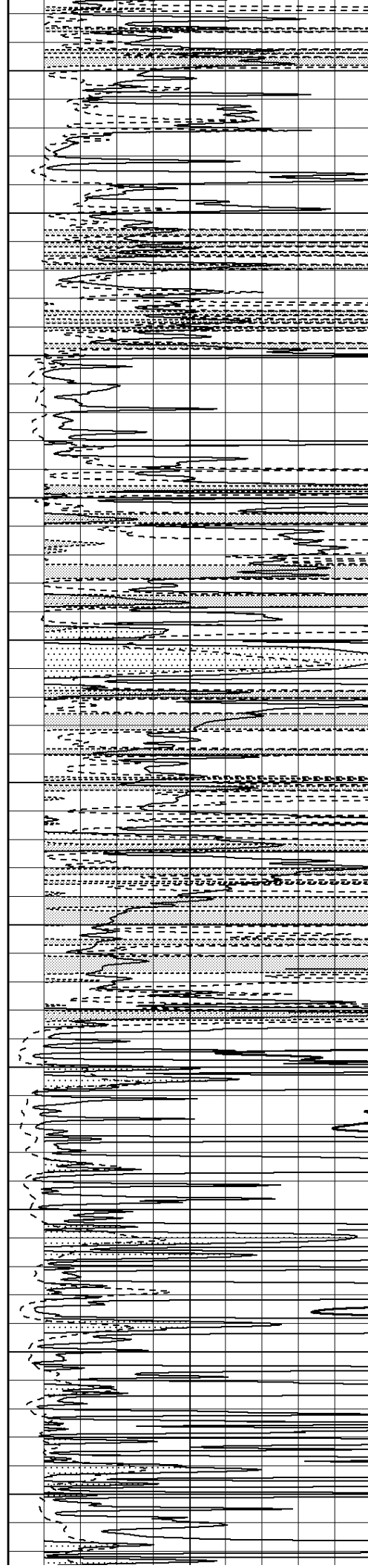
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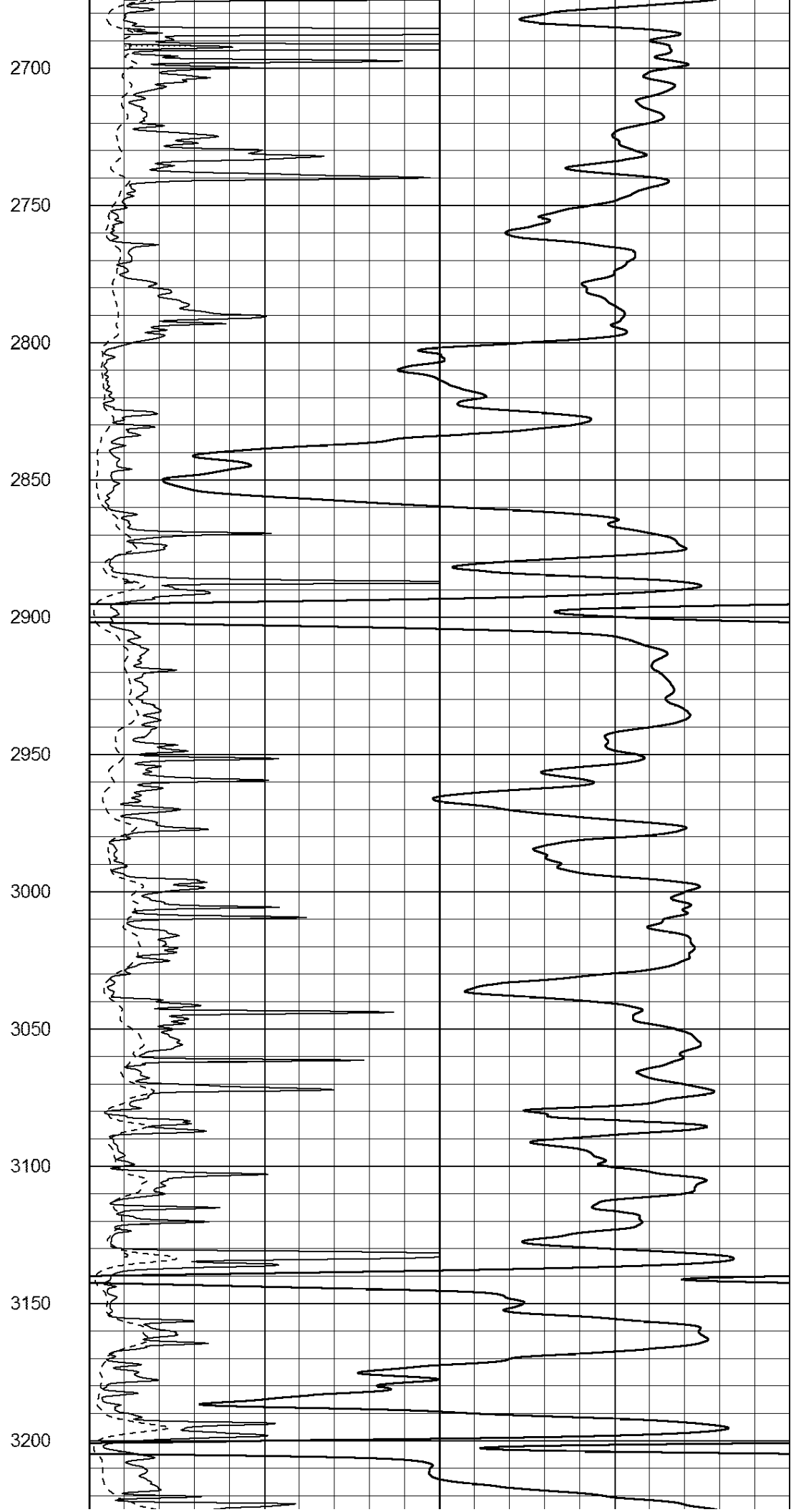
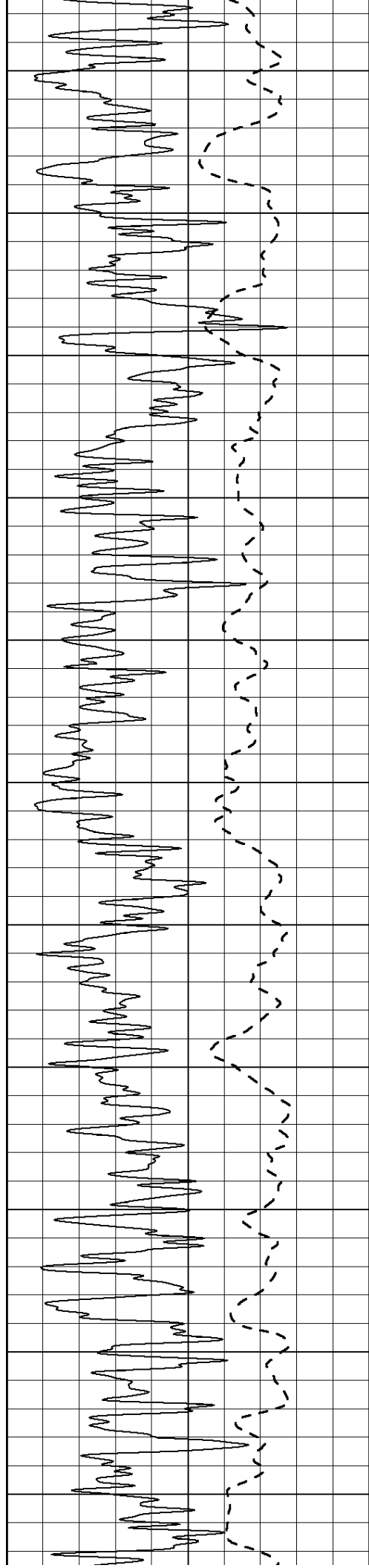
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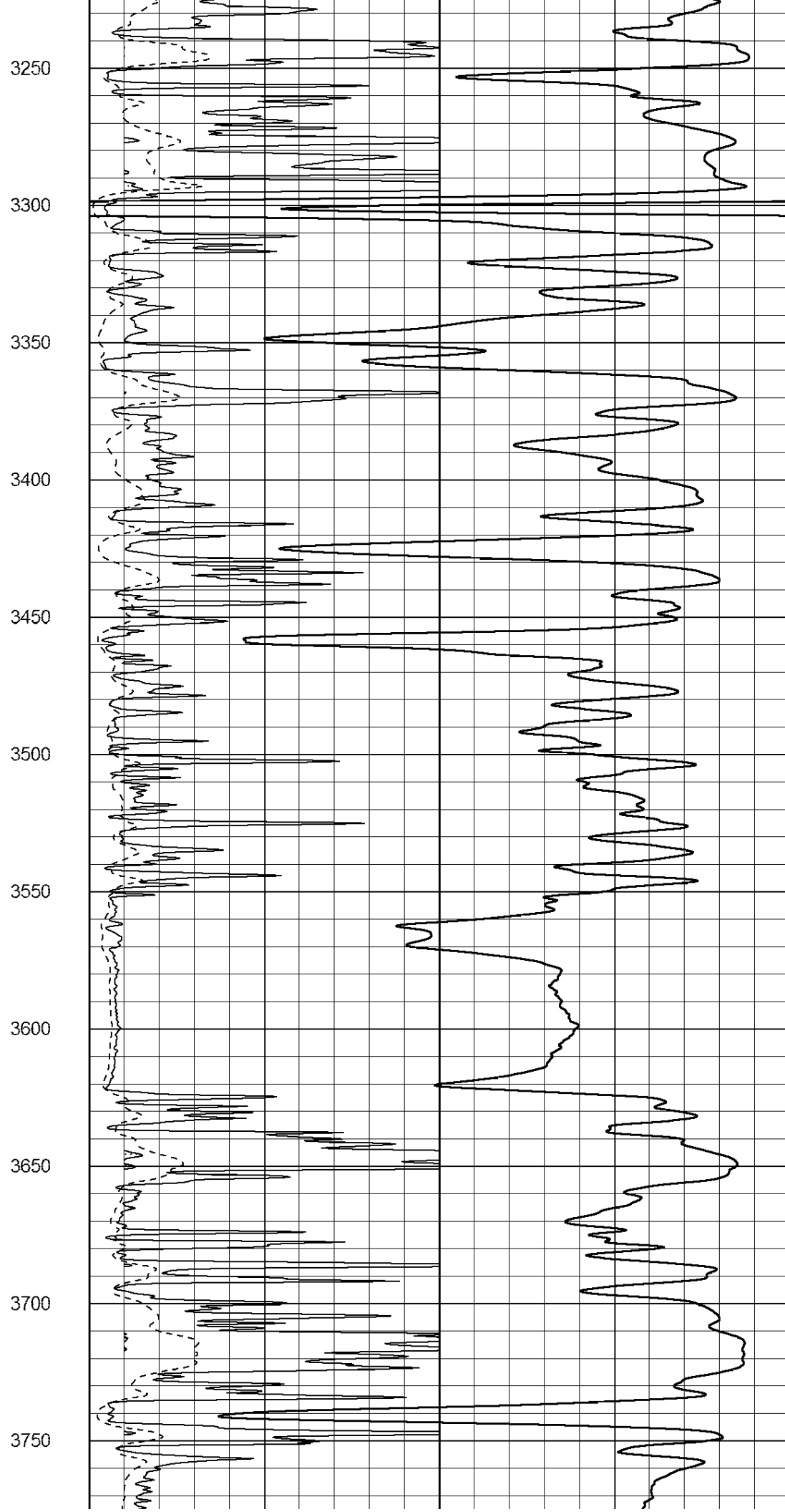
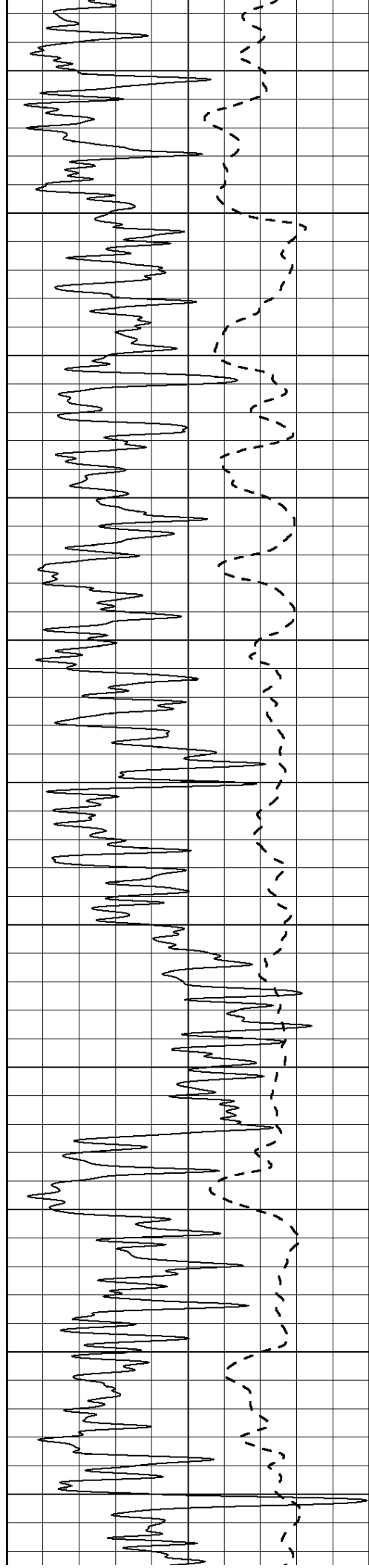
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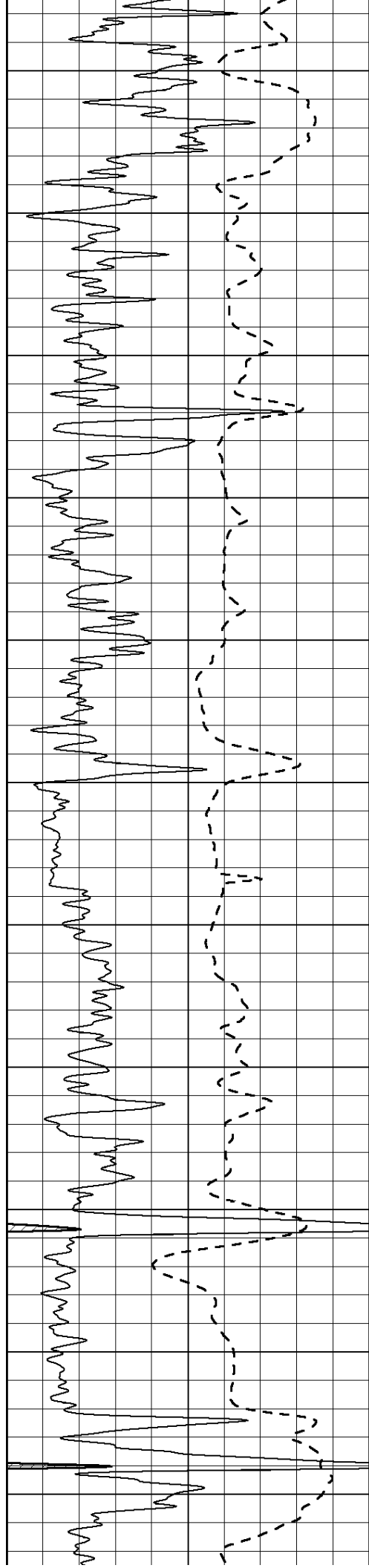
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2650









3800

3850

3900

3950

4000

4050

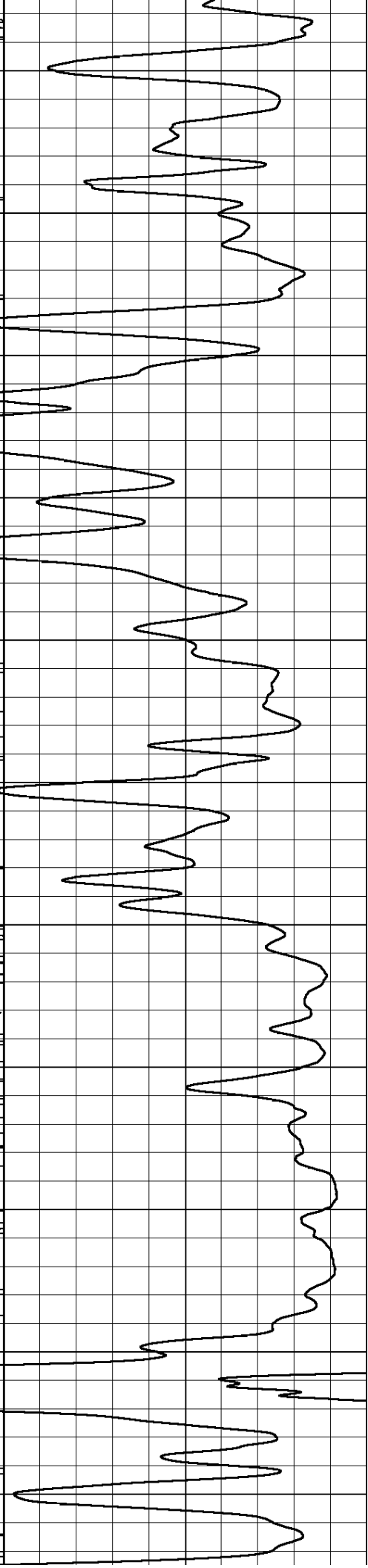
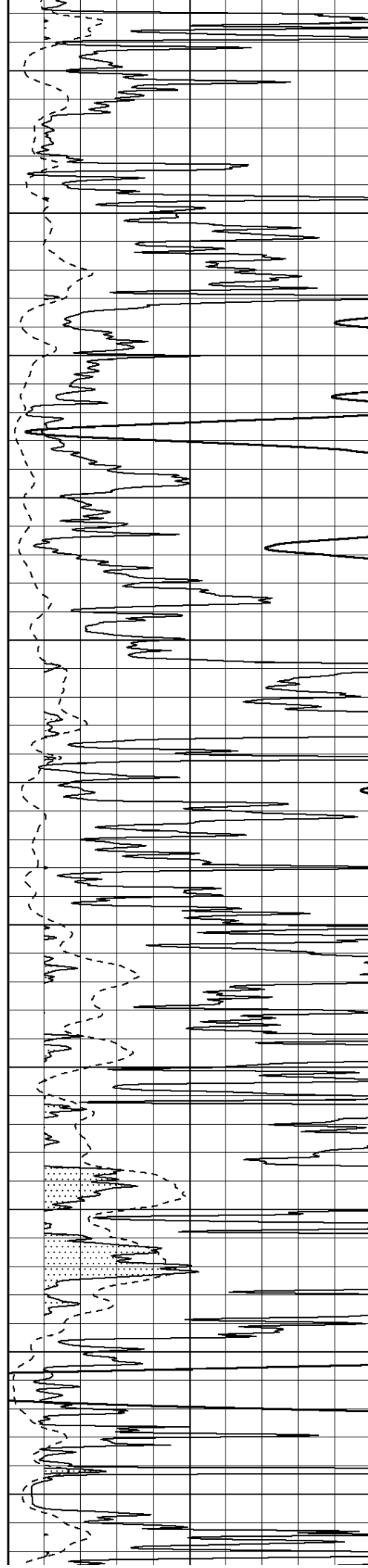
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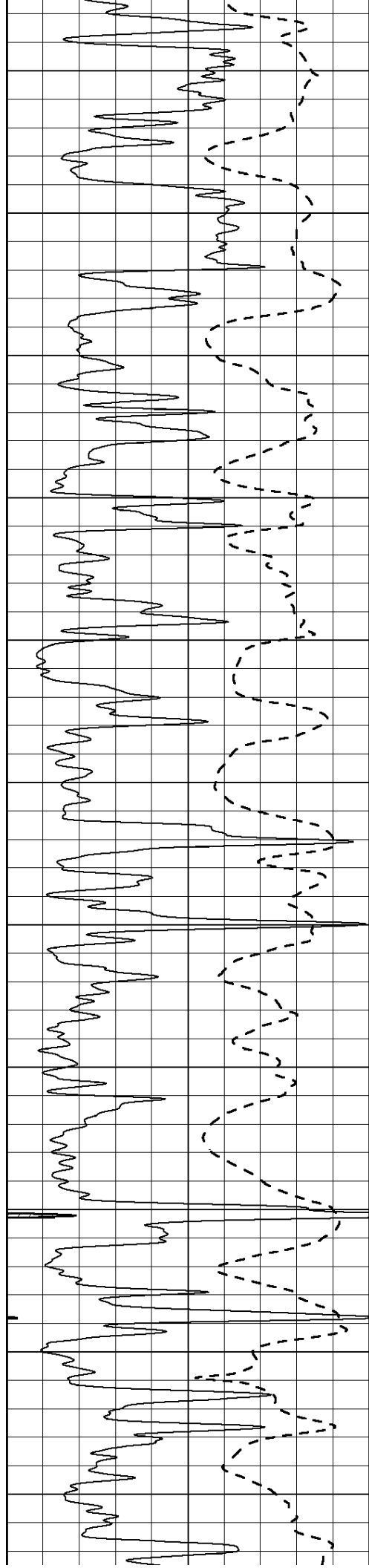
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4200

4250

4300





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4600

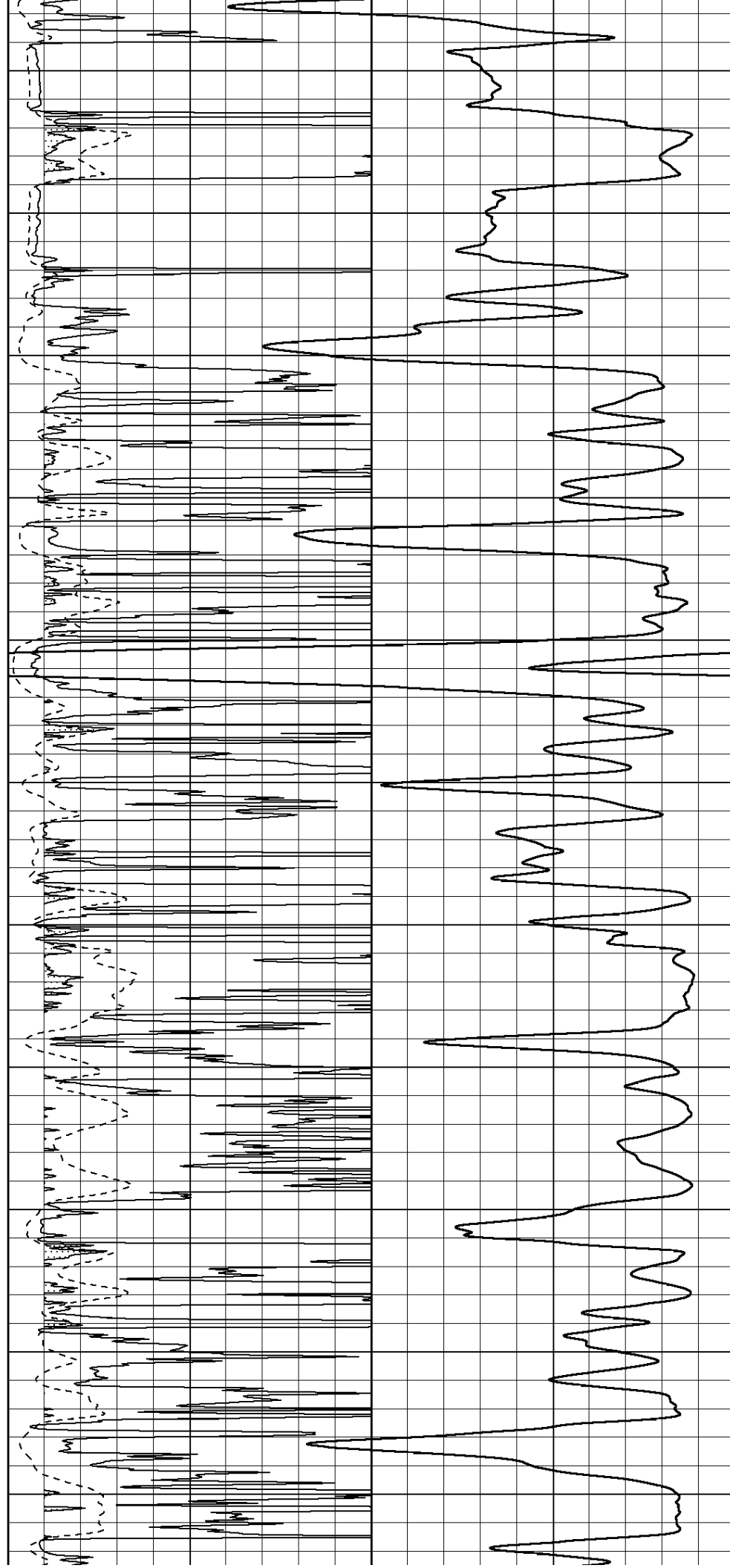
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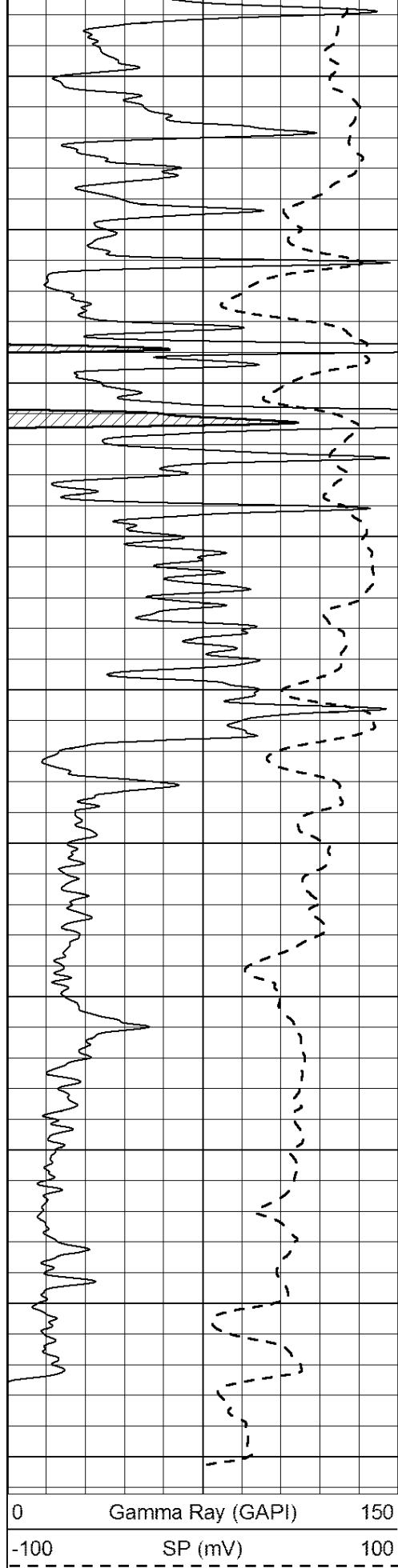
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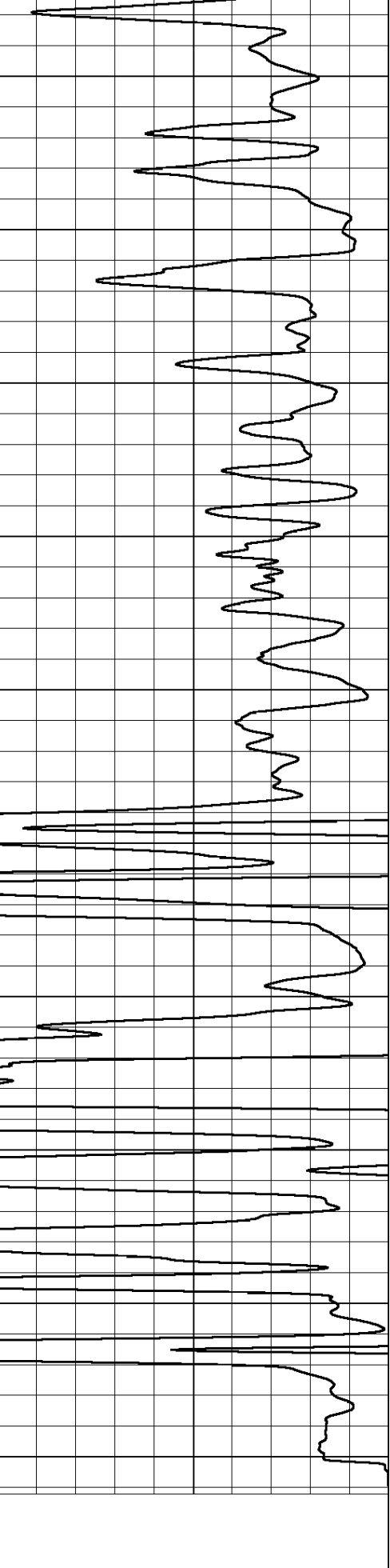
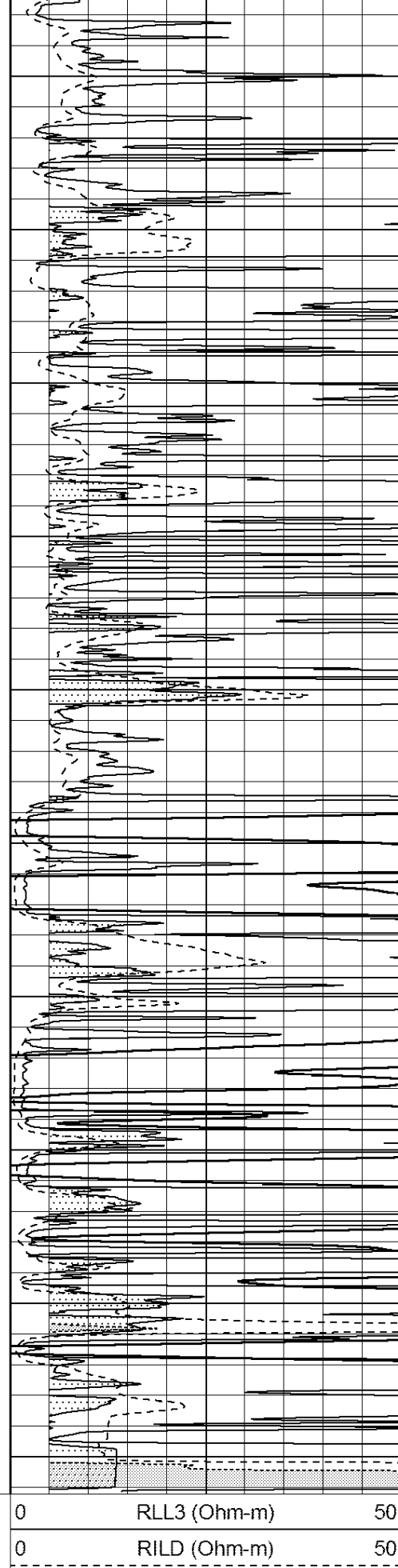
4800

4850





4900
4950
5000
5050
5100
5150
5200
5250
5300
5350



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

0 RLL3 (Ohm-m) 50
0 RILD (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500
50 RLL3 X10 (Ohm-m) 500

Database File: 011372pe.db
Dataset Pathname: pass3.7
Presentation Format: _dil
Dataset Creation: Sun Aug 04 01:44:28 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

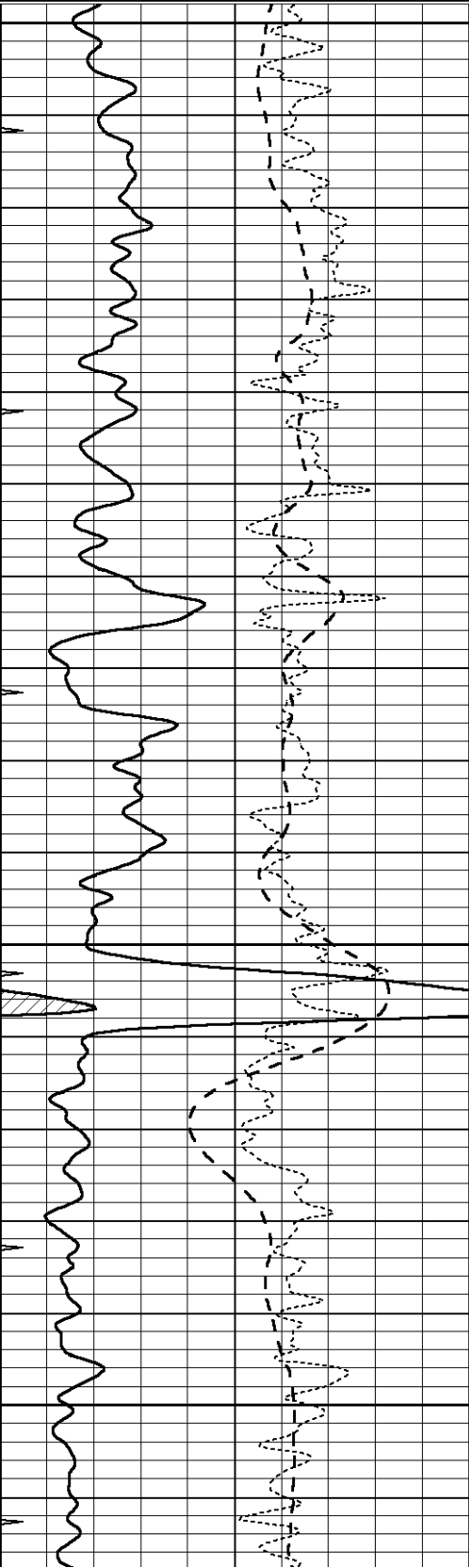
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100

-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

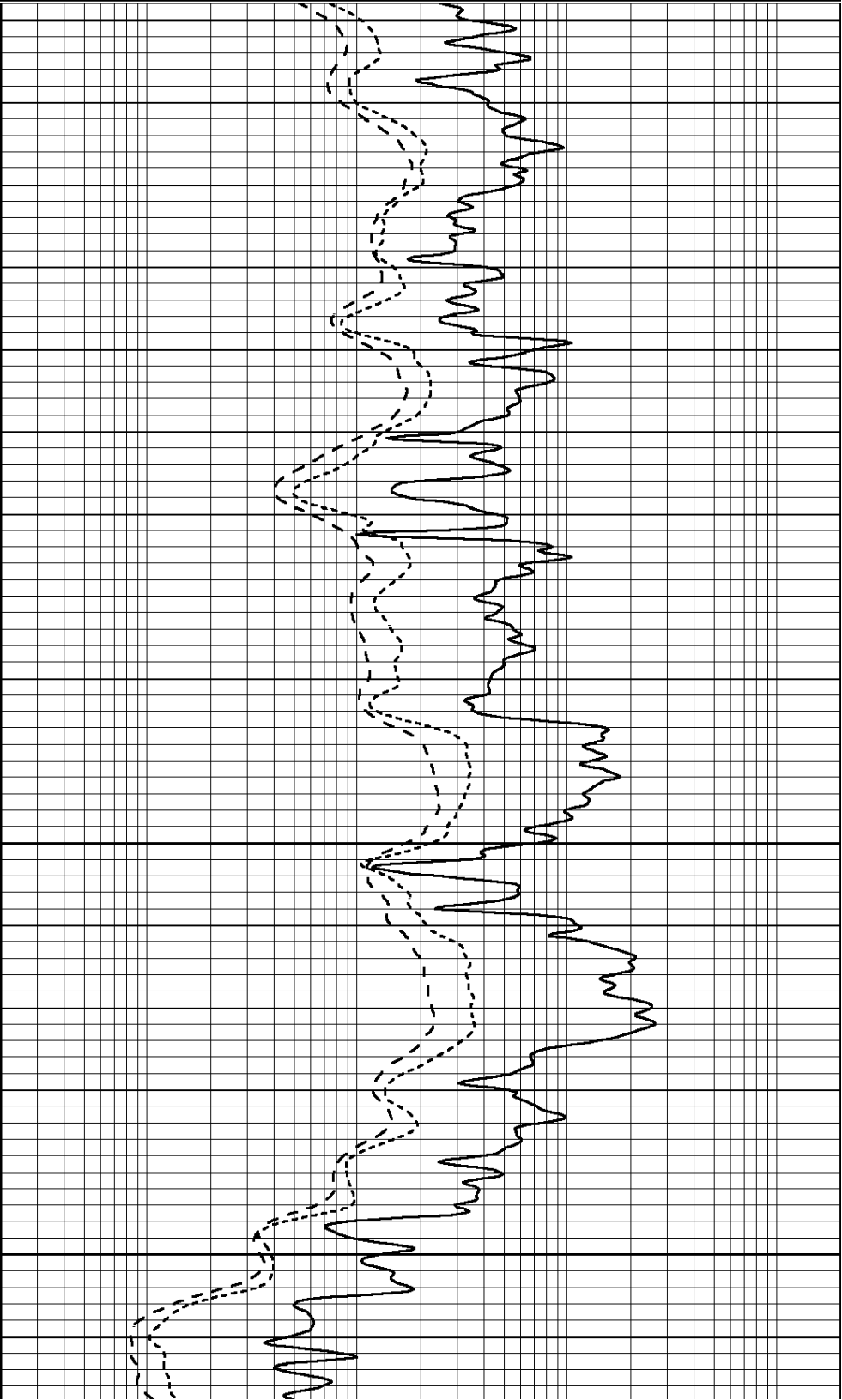


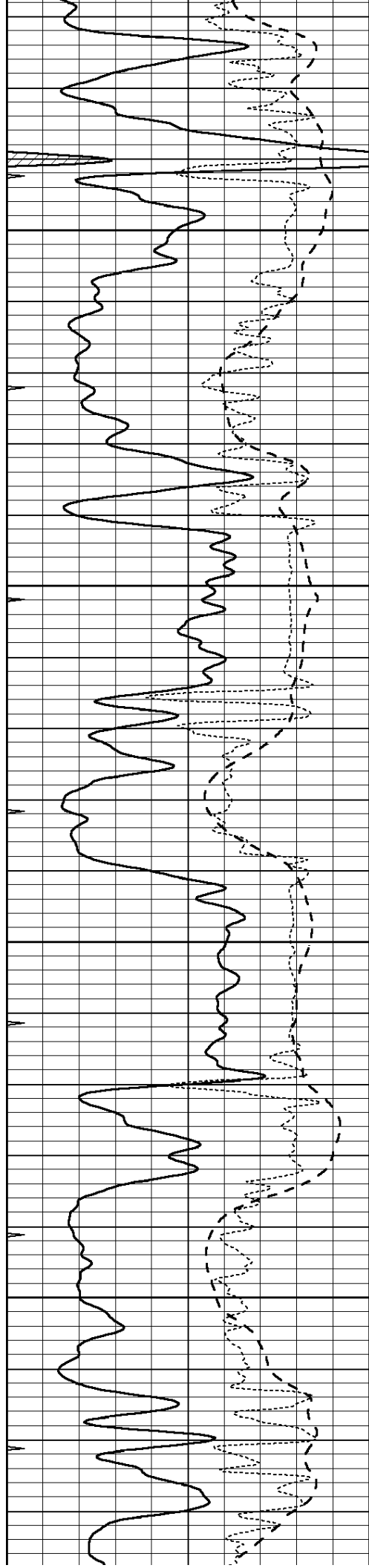
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4150

4200

4250



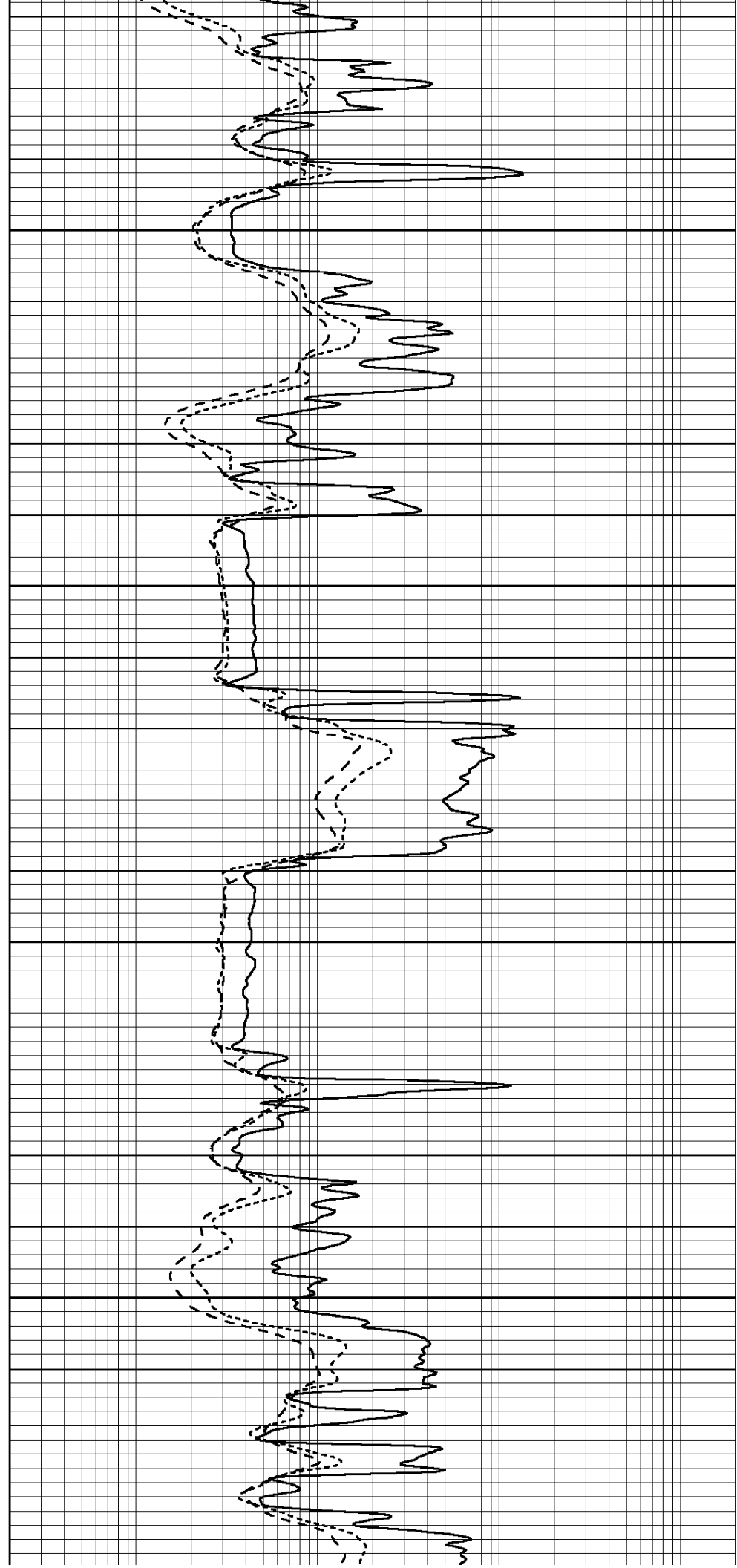


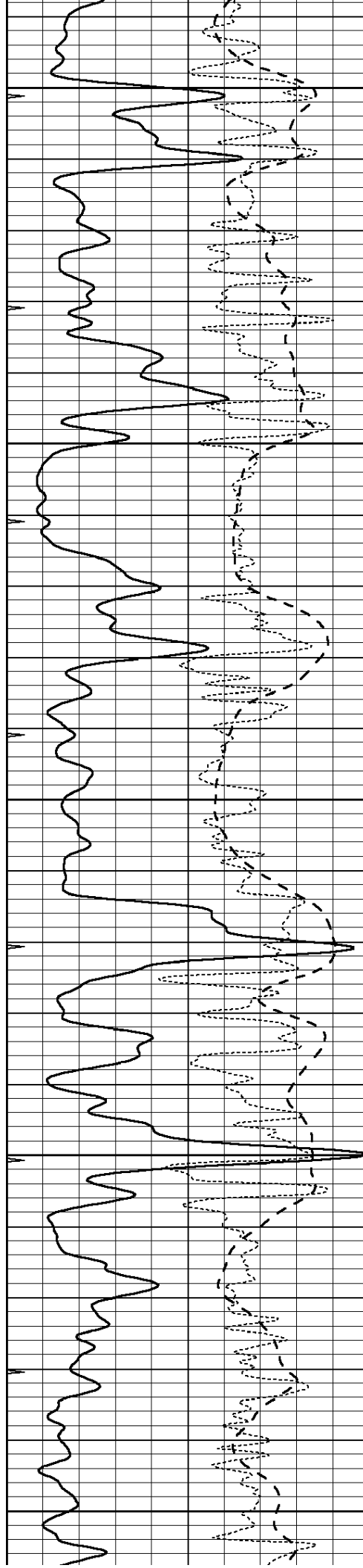
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4400

4450





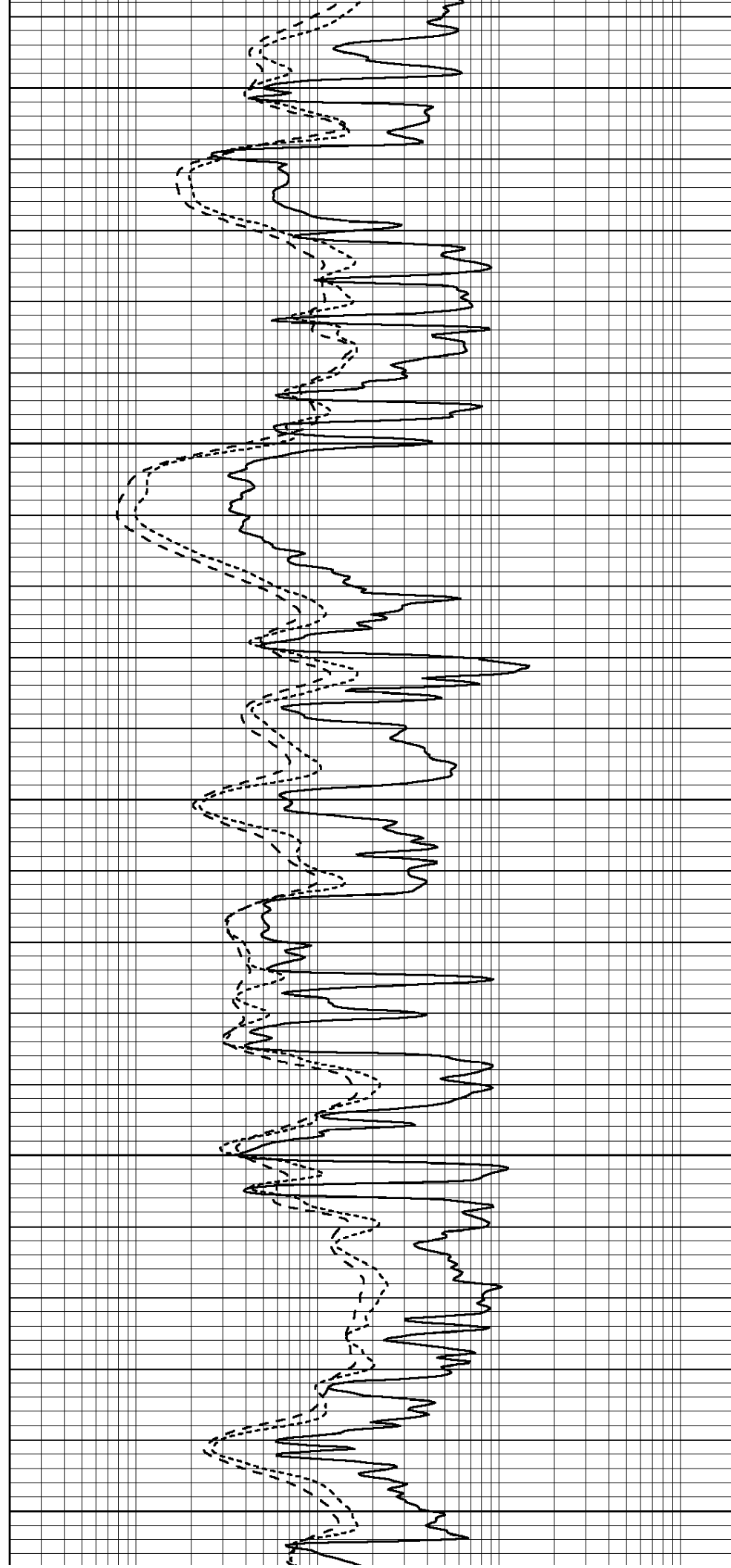
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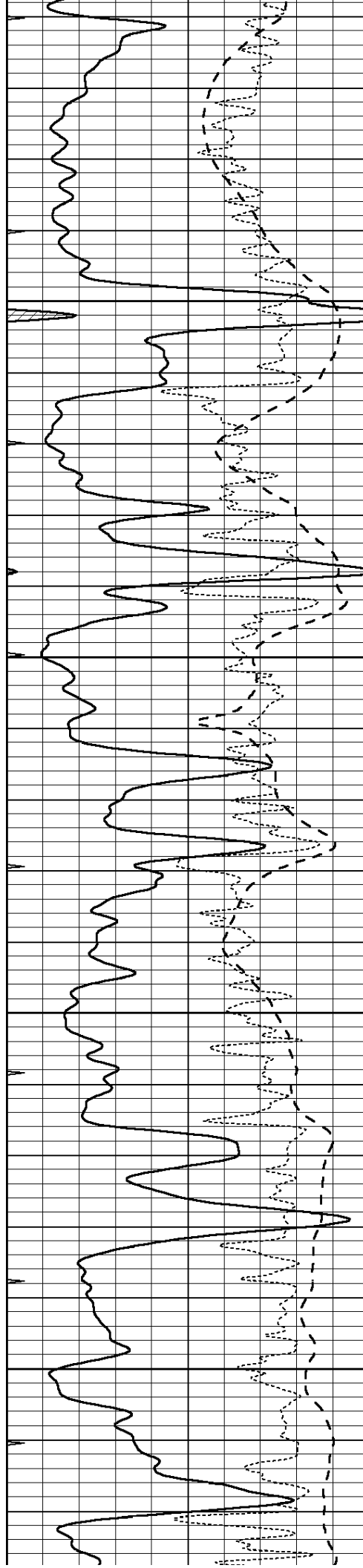
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4600

4650

4700



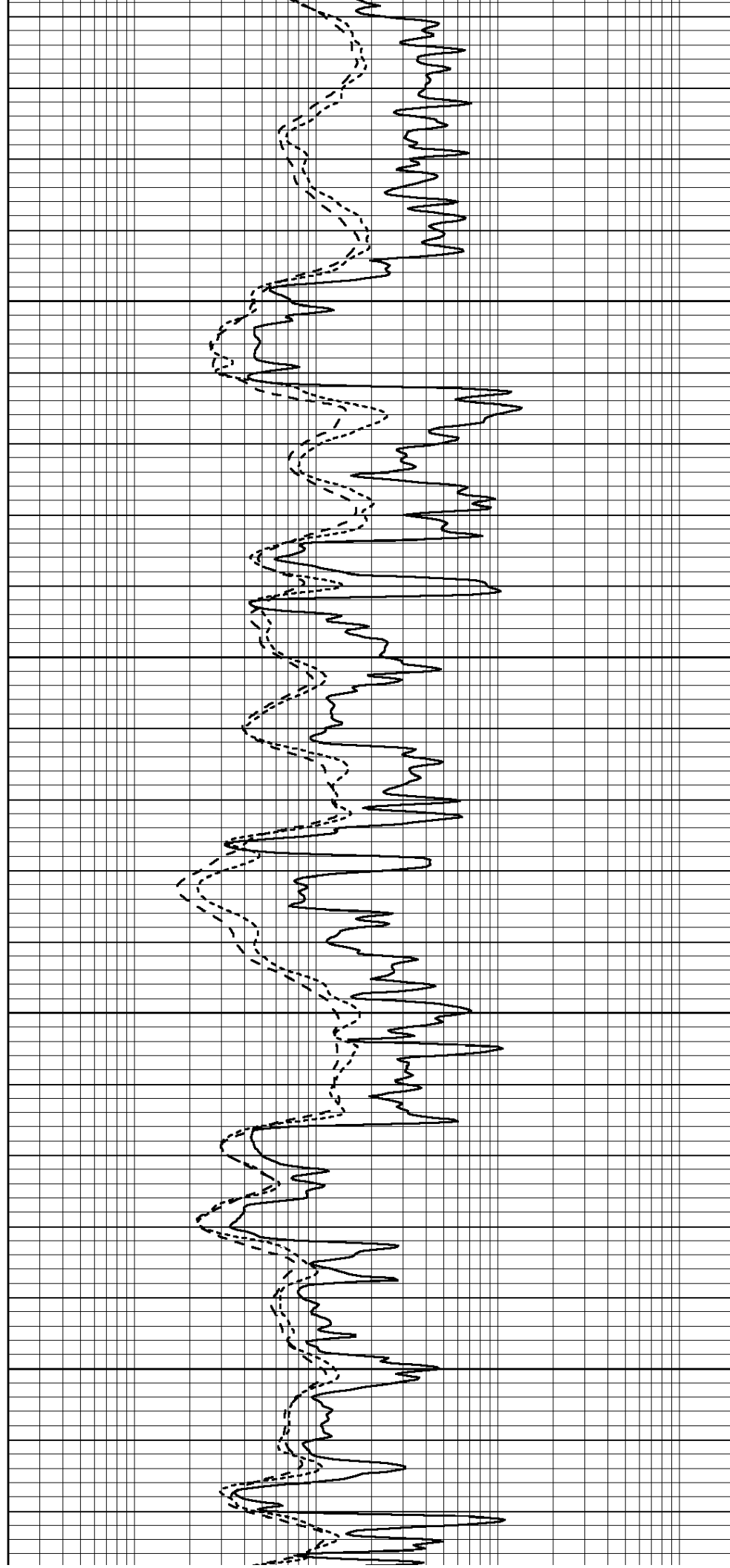


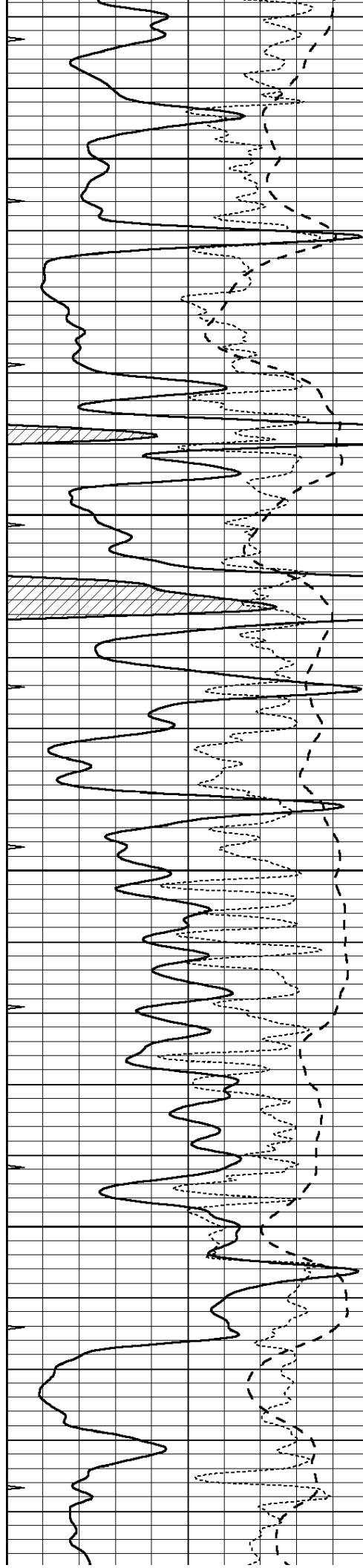
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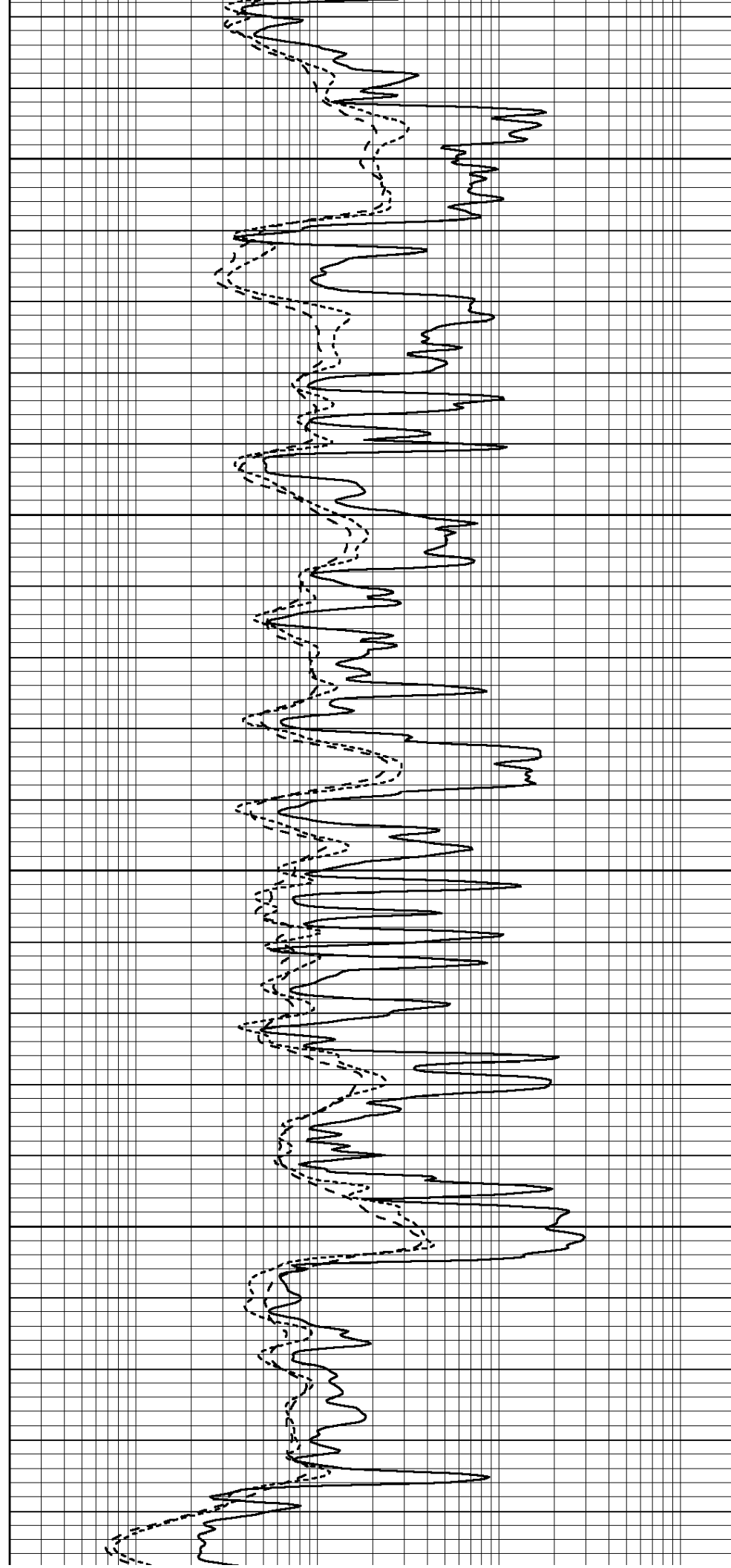


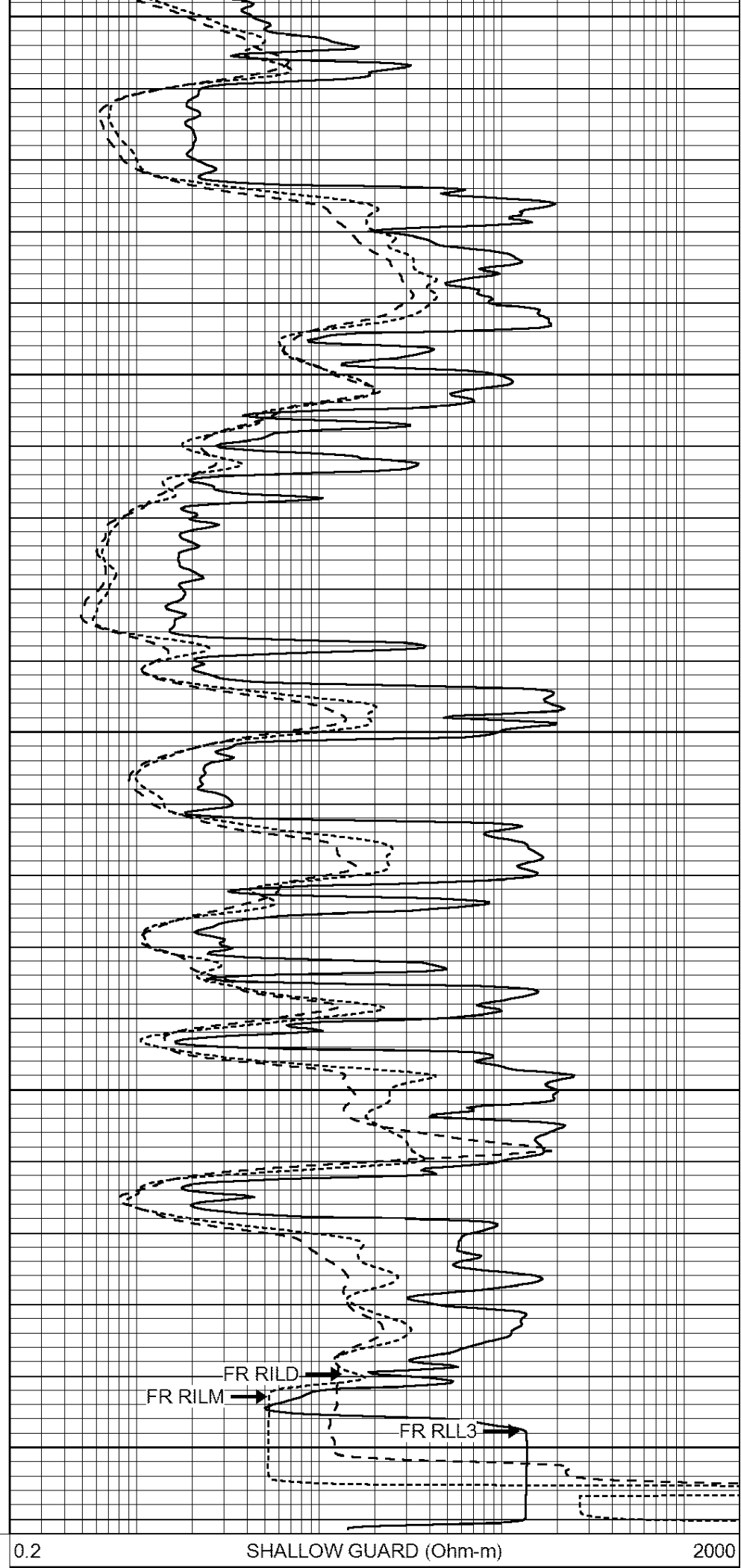
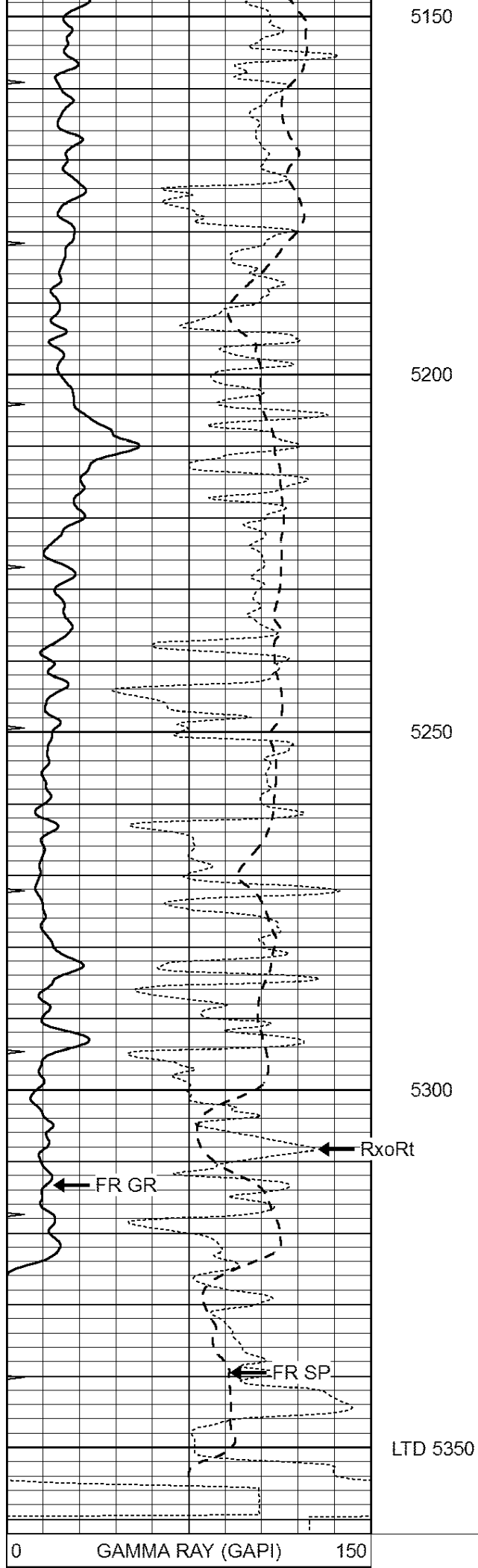
4950

5000

5050

5100





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

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

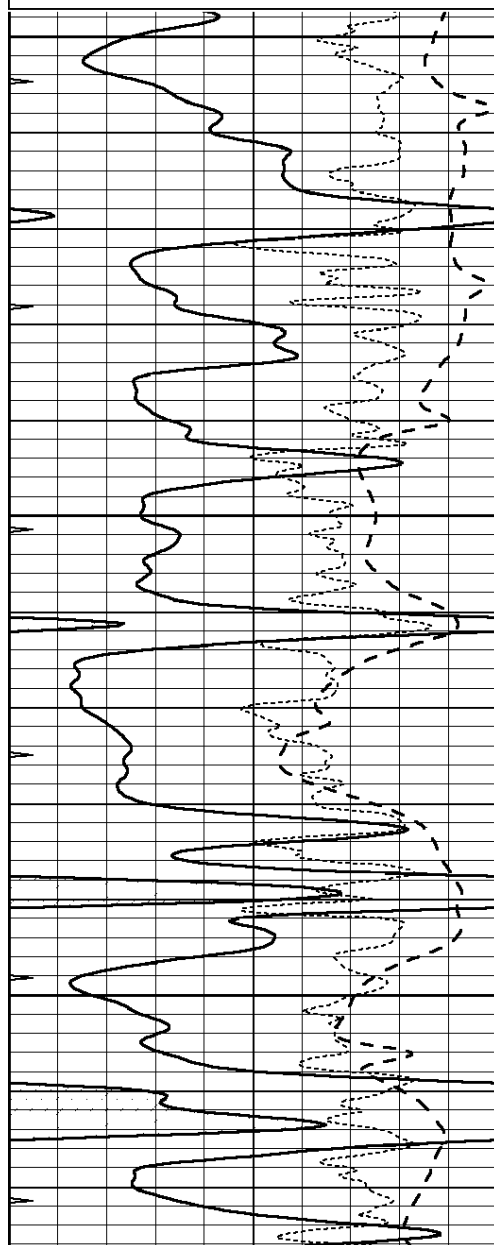


REPEAT SECTION

Database File: 011372pe.db
Dataset Pathname: pass2.8
Presentation Format: _dil
Dataset Creation: Sun Aug 04 02:03:48 2013 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

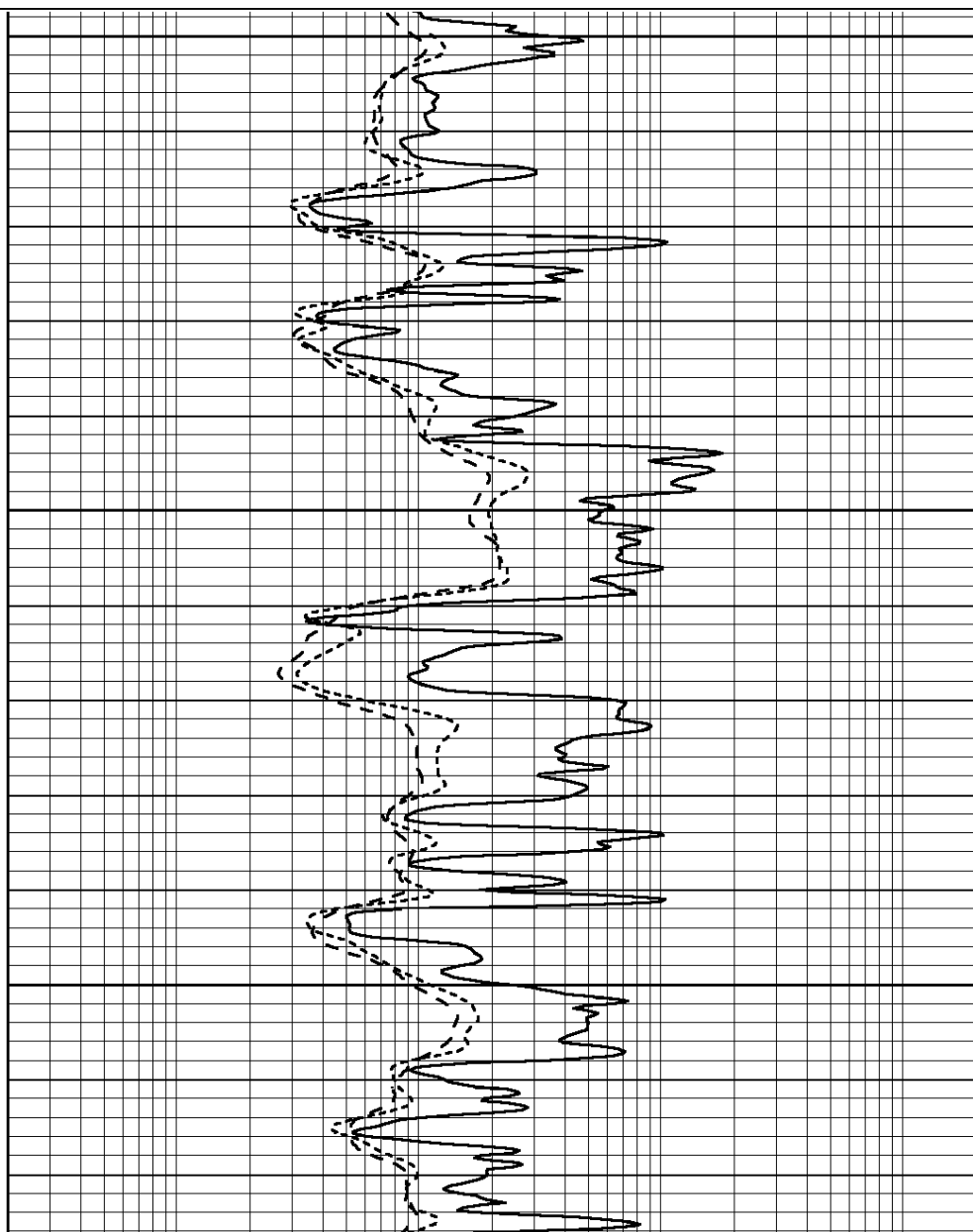
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

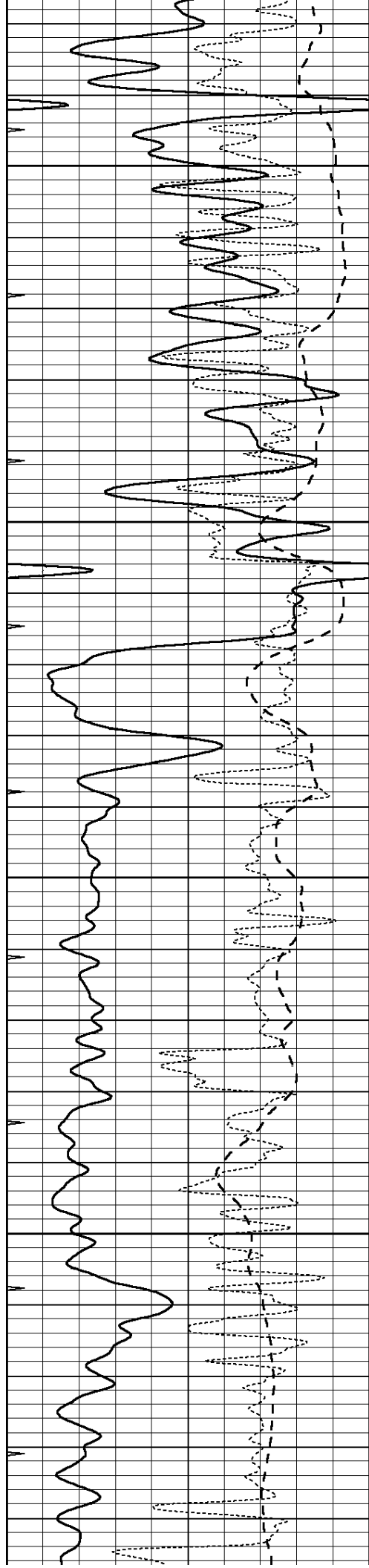


4900

4950

5000



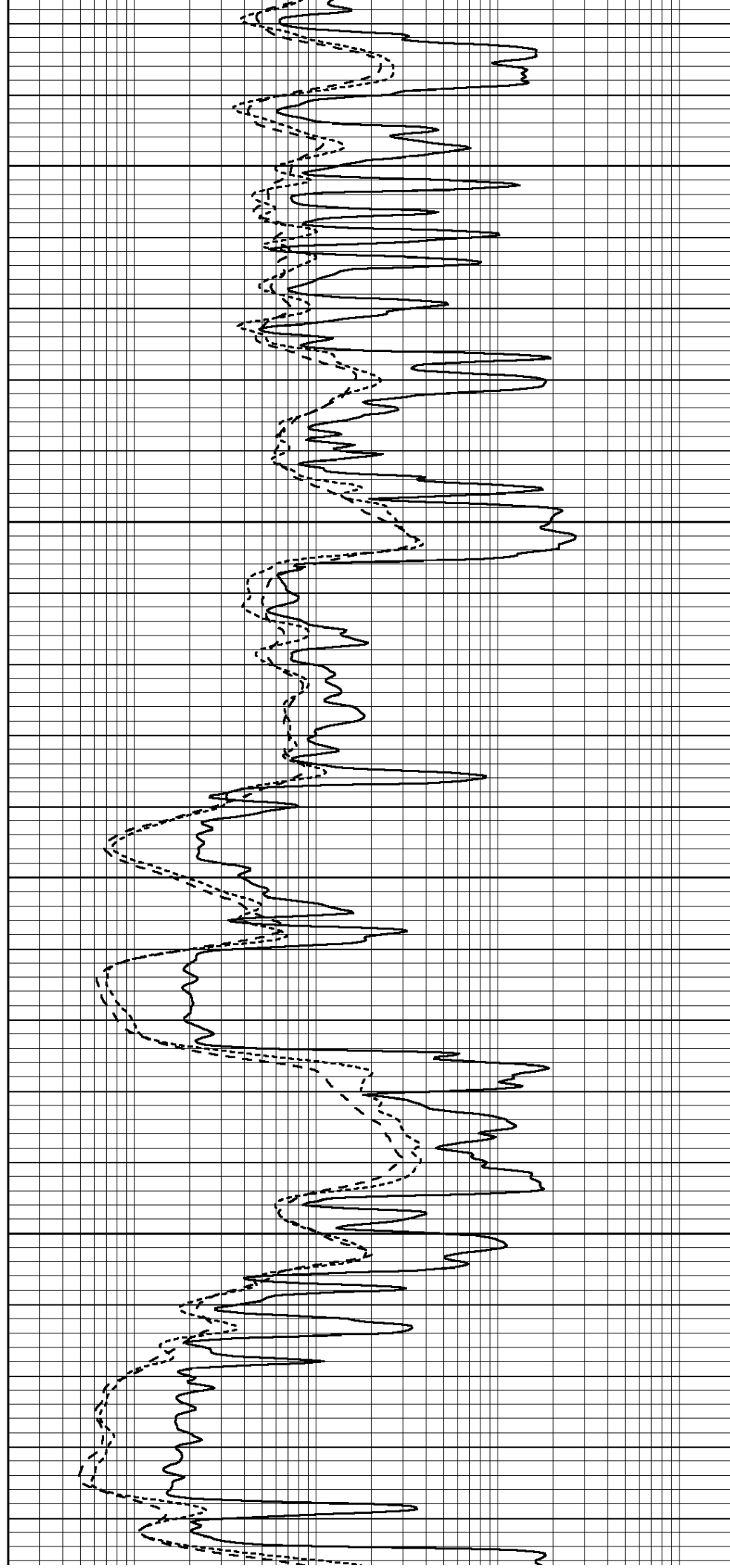


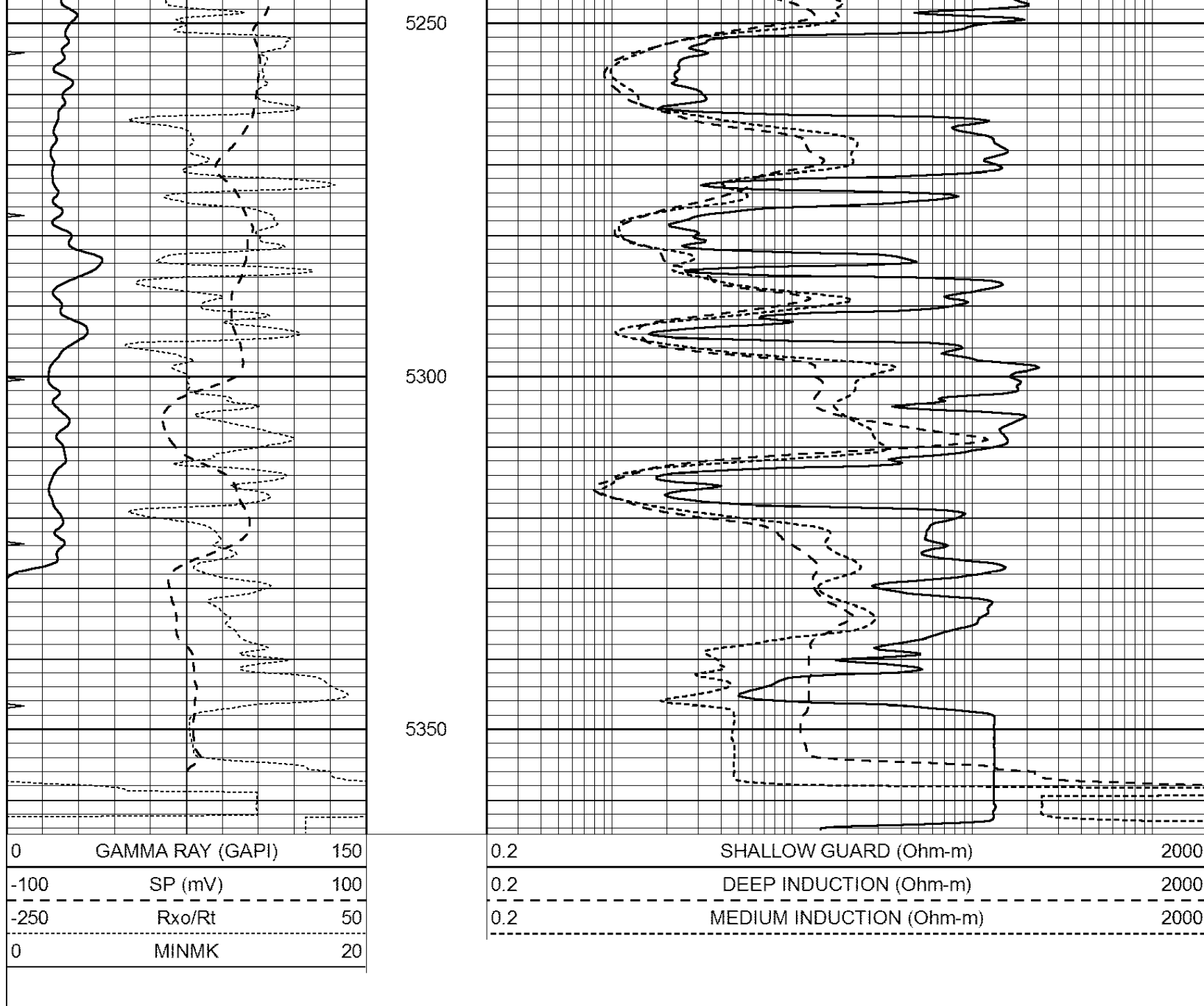
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5100

5150

5200





Calibration Report								
Database File:		011372pe.db						
Dataset Pathname:		pass3.8						
Dataset Creation:		Sun Aug 04 04:11:39 2013 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model:		PROBE7-DILG						
Surface Cal Performed:		Mon Jul 01 07:10:41 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	22.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	660.000	-30.000
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
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		
Litho Density Calibration Report								
Serial: 002 Model: PRB								
Master Calibration			Performed Mon Apr 02 17:56:53 2012					
	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		0.0000		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	
Before Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		
After Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps

Measured Rho	0.0000	0.0000	0.0000	g/cc
Measured Correction	0.0000	0.0000	0.0000	g/cc
Measured Pe		0.0000	0.0000	
Compensated Neutron Calibration Report				
Serial Number:		NEU_4I		
Tool Model:		G		
CALIBRATION				
Detector	Readings		Target	Normalization
Short Space	1.00	cps	1.00	1.0000
Long Space	1.00	cps	1.00	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:	GR5			
Tool Model:	OPEN			
Performed:	Wed Jul 31 01:28:27 2013			
Calibrator Value:	1.0	GAPI		
Background Reading:	0.0	cps		
Calibrator Reading:	1.0	cps		
Sensitivity:	1.8000	GAPI/cps		