



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	STARR F. SCHLOBOHM	Company	CAPTIVA II
Well	EAKIN UNIT #2-7	Well	EAKIN UNIT #2-7
Field	WILDCAT	Field	WILDCAT
County	PAWNEE	County	PAWNEE
State	KANSAS	State	KANSAS
Location:	API # : 15-145-21626-0000	Other Services	CDL/CNL MEL/SON
Permanent Datum	GROUND LEVEL	Elevation	2007
Log Measured From	2075' FSL & 1500' FEL SE - NE - NW - SE	Elevation	KB, 2018 D.F. 2016 G.L. 2007
Drilling Measured From	SEC 7 TWP 22S RGE 16W KELLY BUSHING		
Date	1/11/11		
Run Number	ONE		
Depth Driller	4025		
Depth Logger	4026		
Bottom Logged Interval	4024		
Top Log Interval	0		
Casing Driller	8 5/8" @ 1035'		
Casing Logger	1035'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.4 / 62		
pH / Fluid Loss	9.5 / 8.0		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	1.10 @ 65F		
Rmf @ Meas. Temp	0.83 @ 65F		
Rmc @ Meas. Temp	1.32 @ 65F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	0.62 @ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	116F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	CHARLIE STURDAVANT		

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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

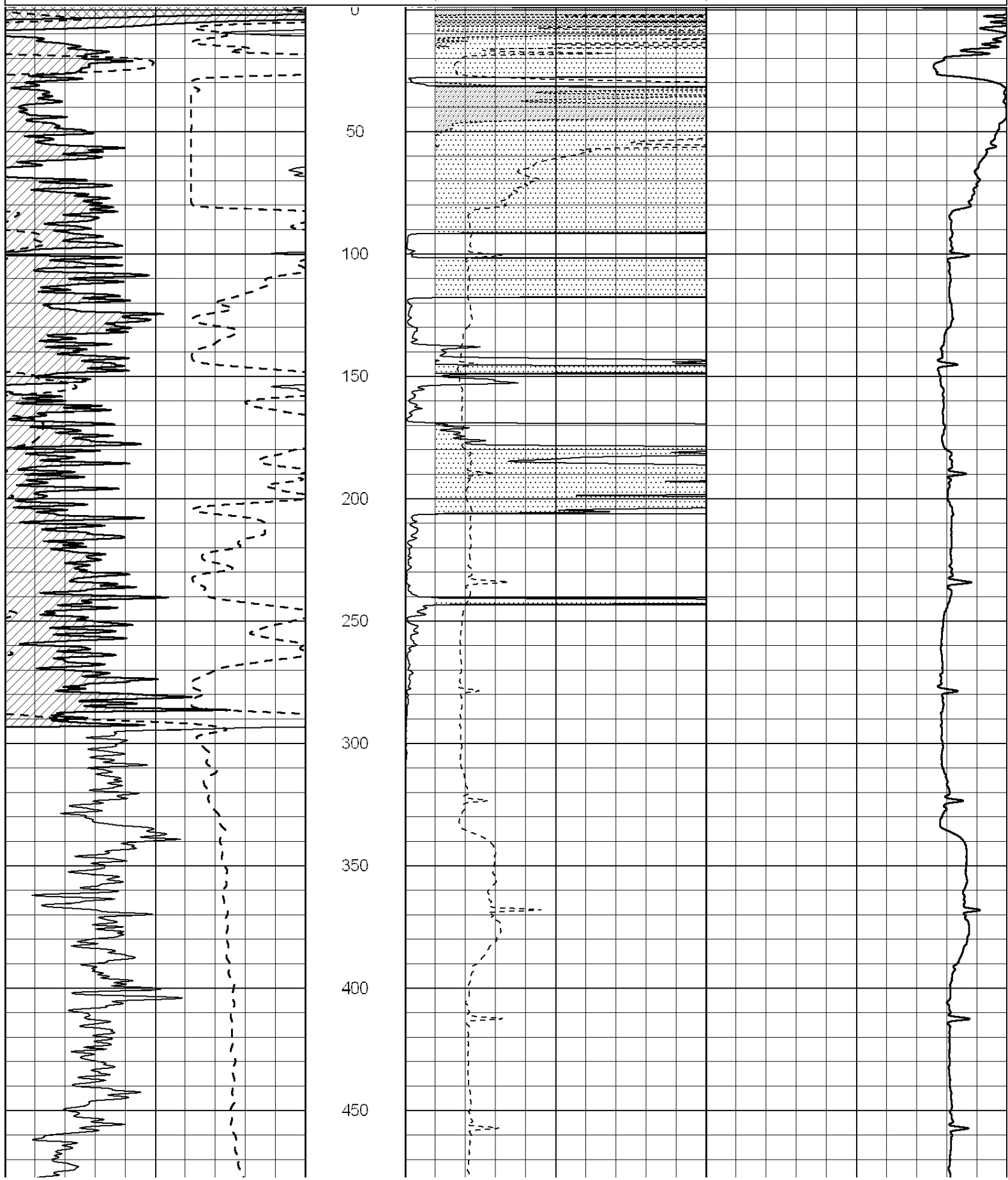
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
LARNED, KS - SOUTHWEST ON HWY 56 ACROSS PAWNEE RIVER BRIDGE - 1/2 MILE PAST BRIDGE
1/2 MILE SOUTH - WEST INTO

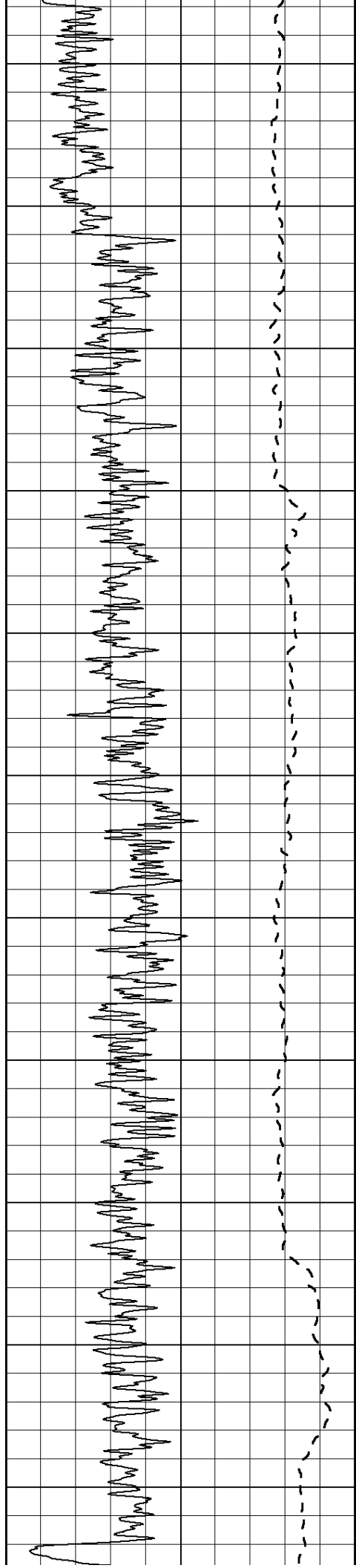
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-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

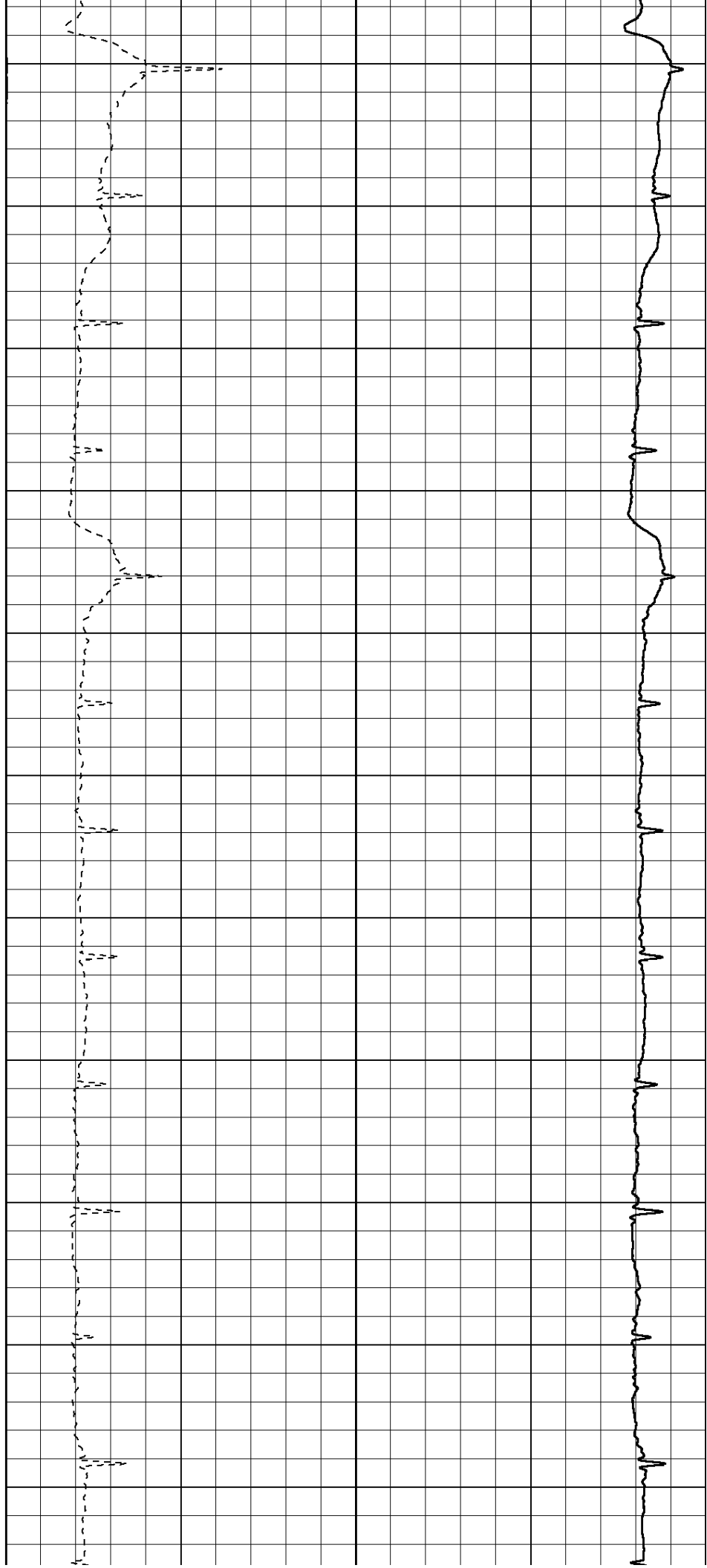
1000	CILD (mmho/m)	0

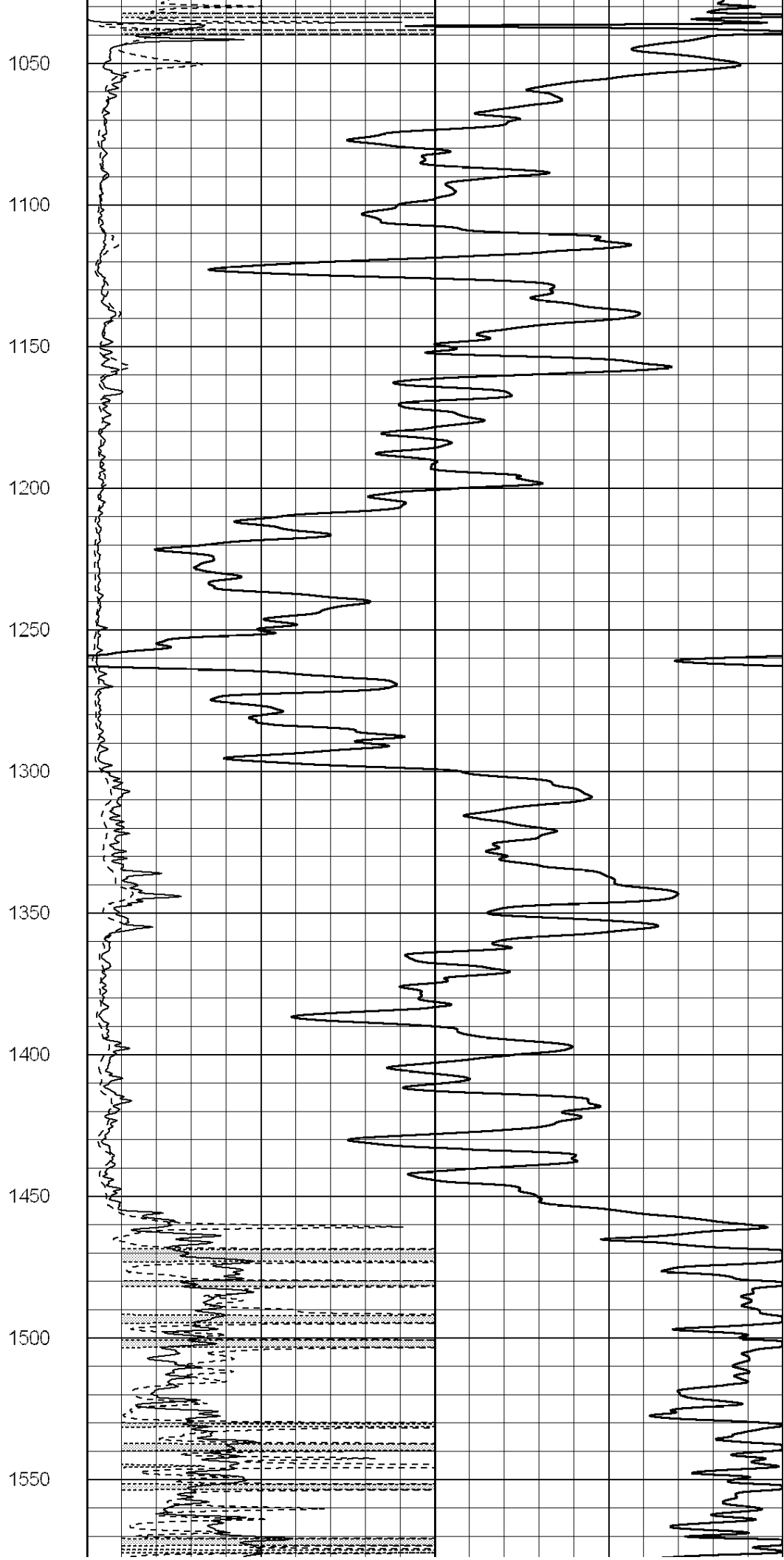
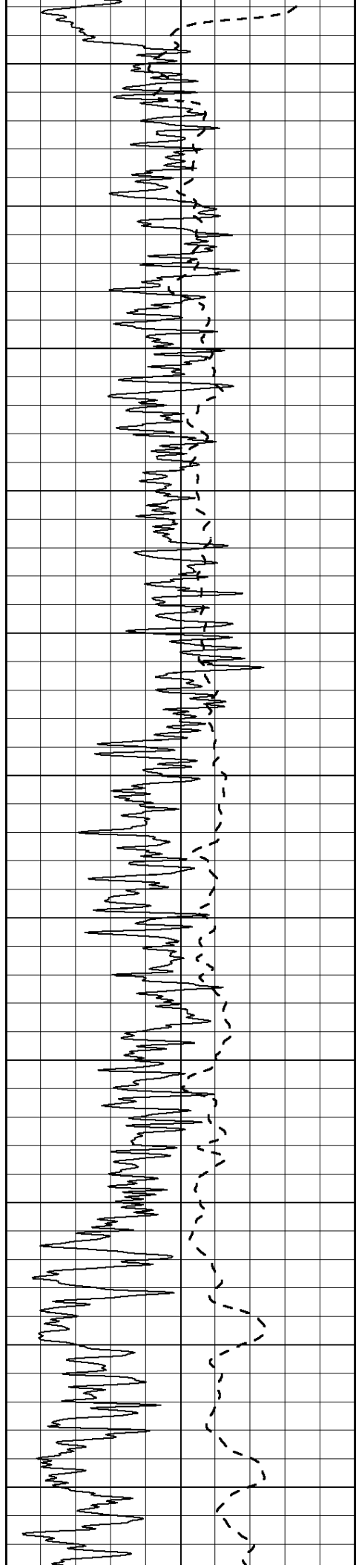
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50	RLL3 X10 (Ohm-m)	500

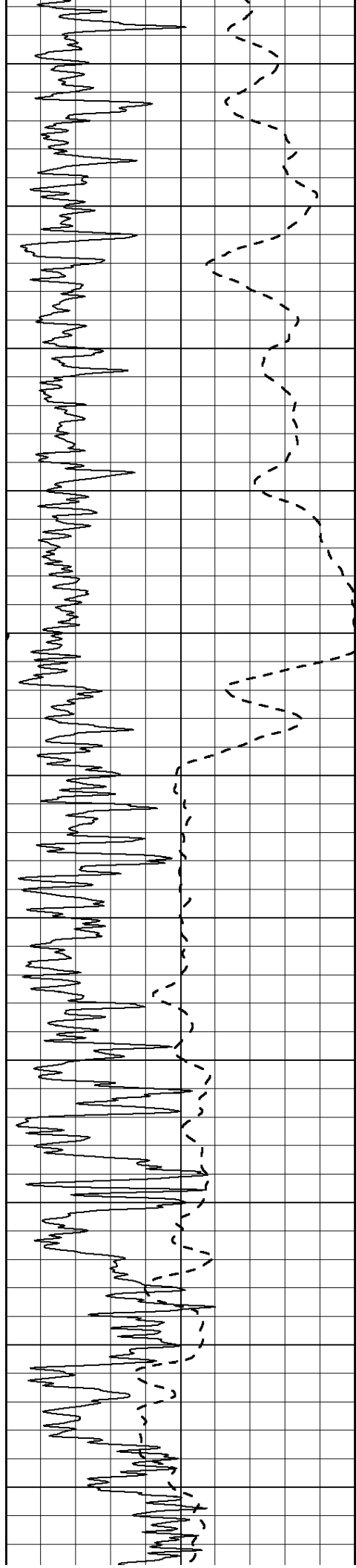




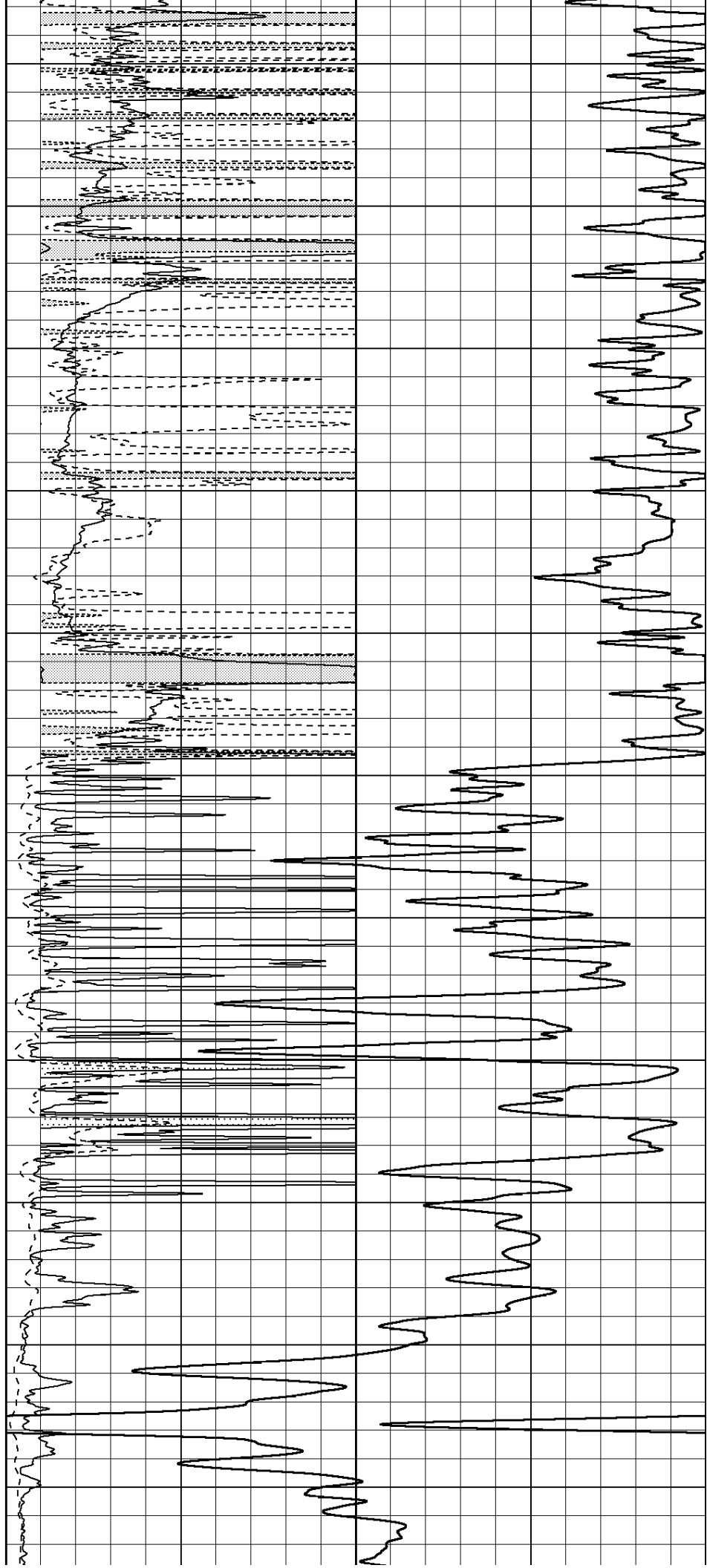
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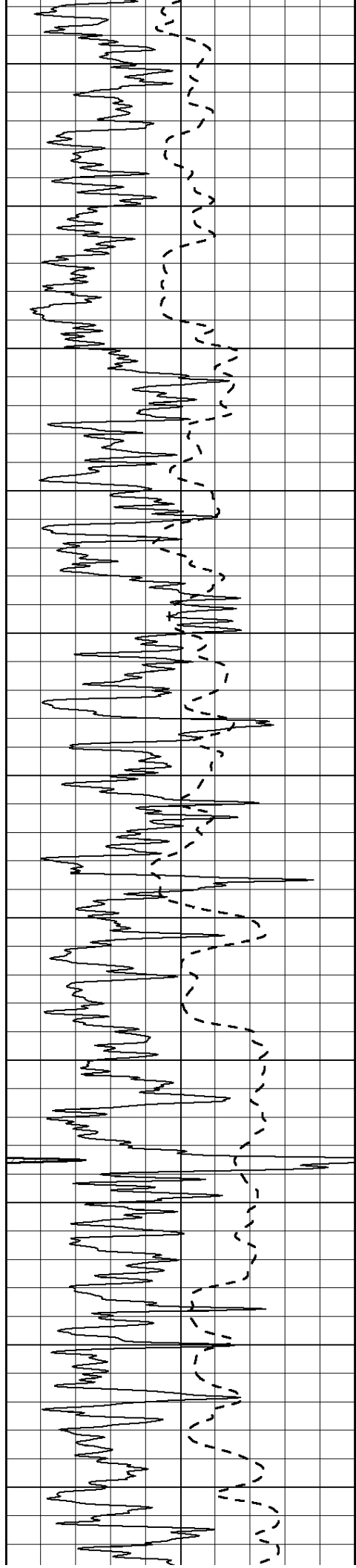






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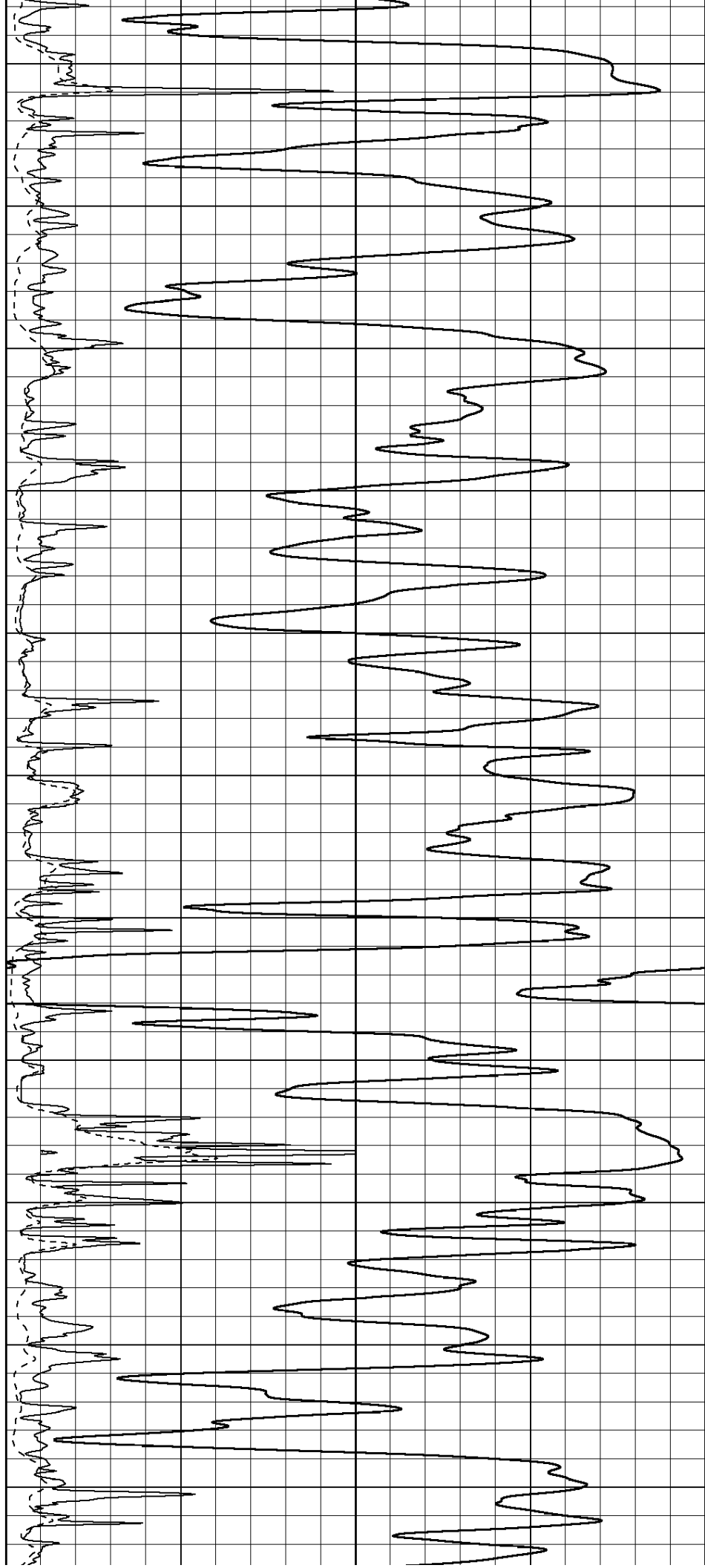
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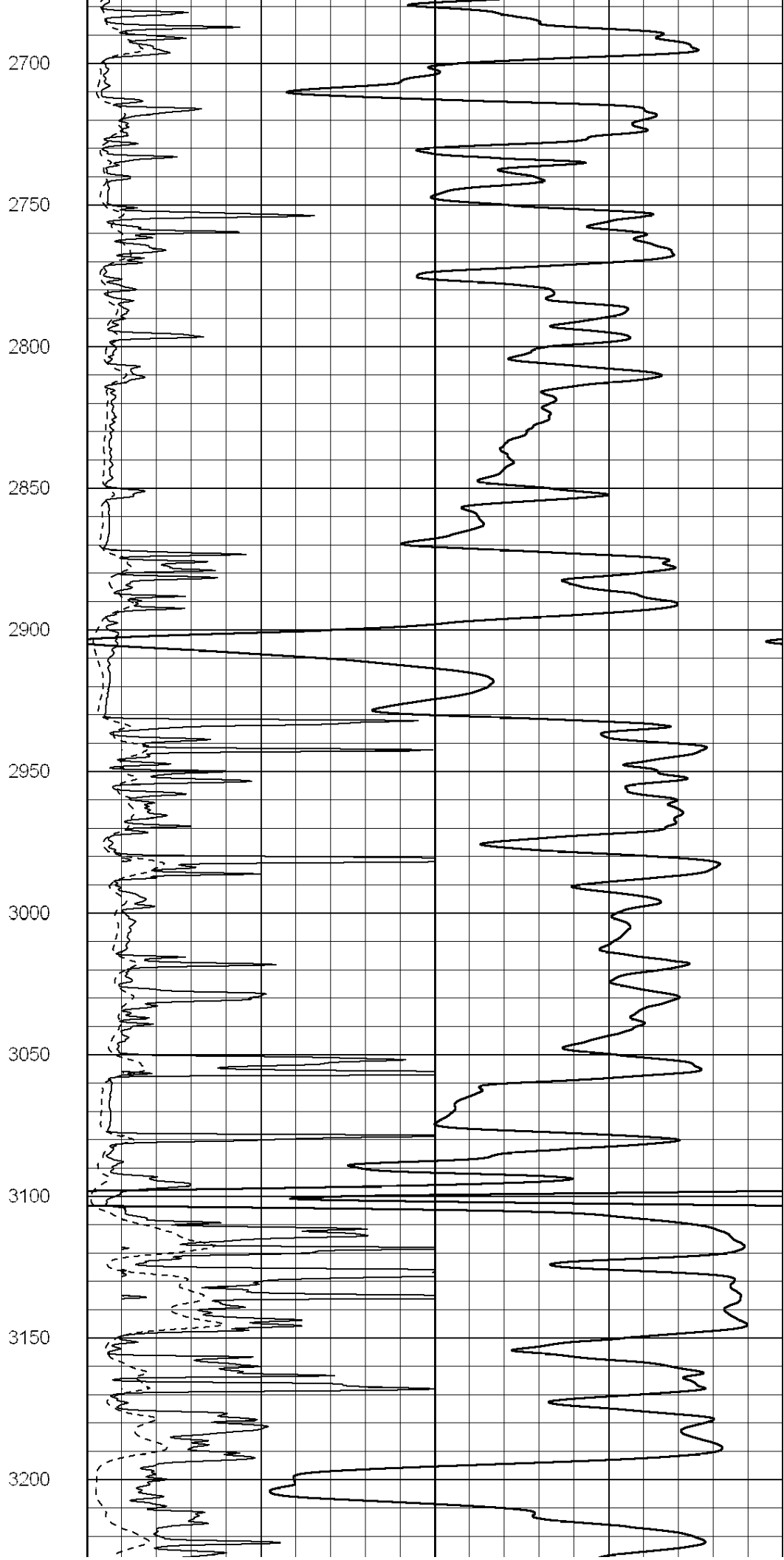
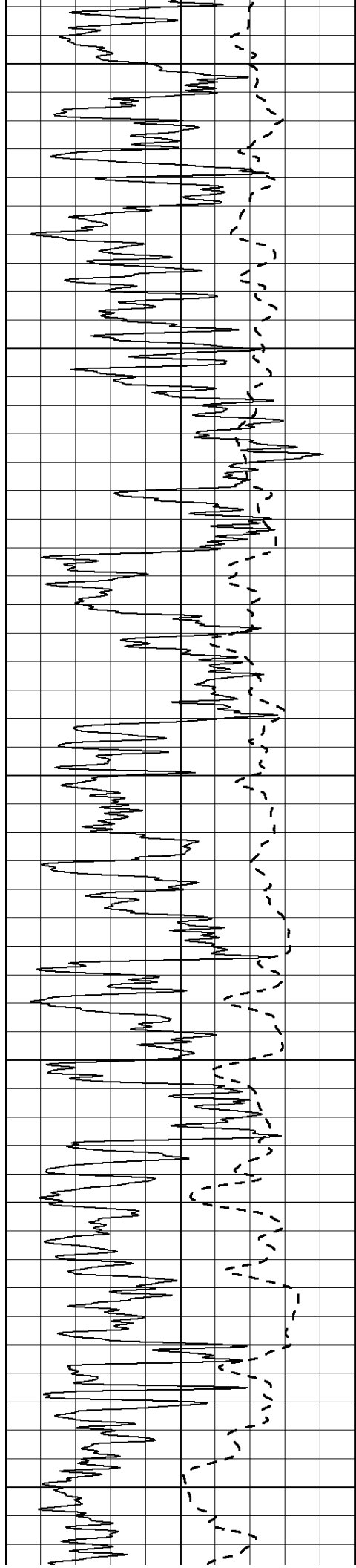
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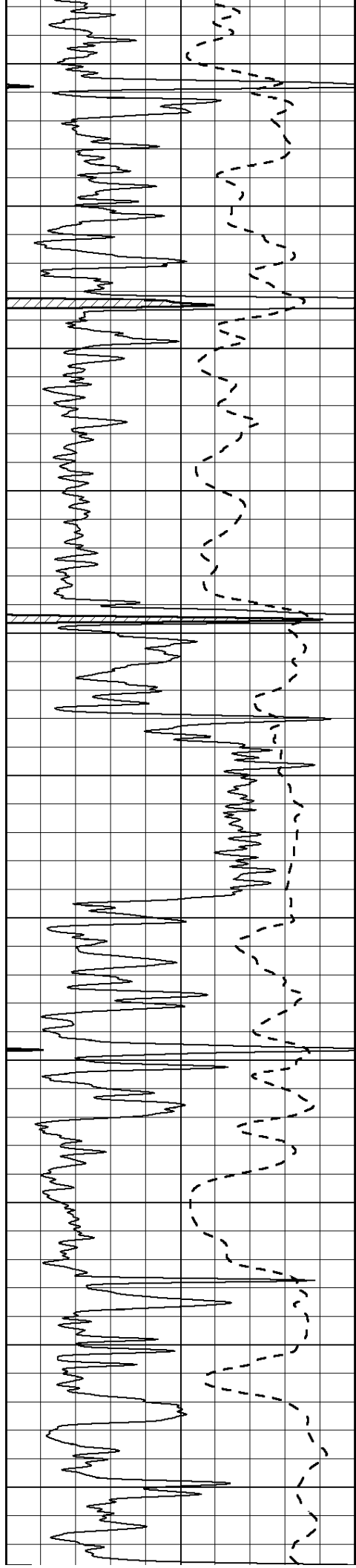
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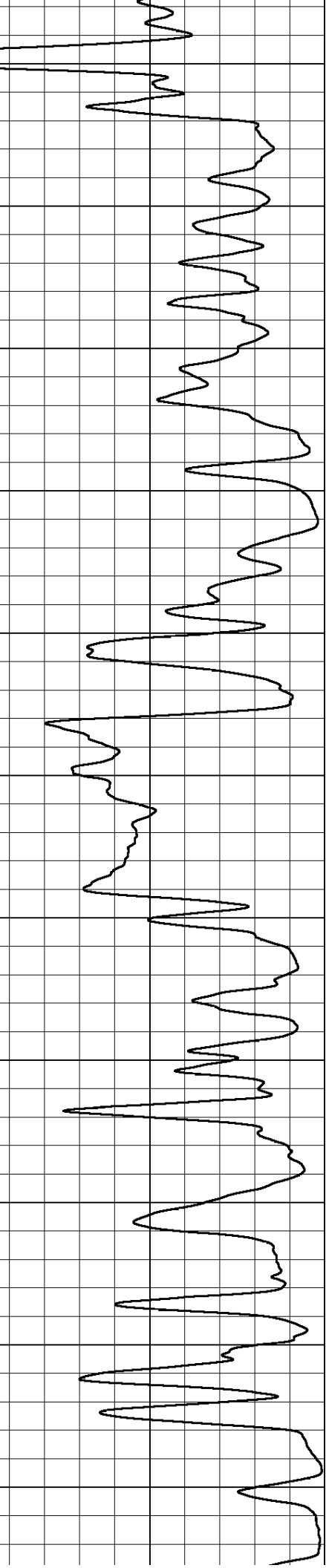
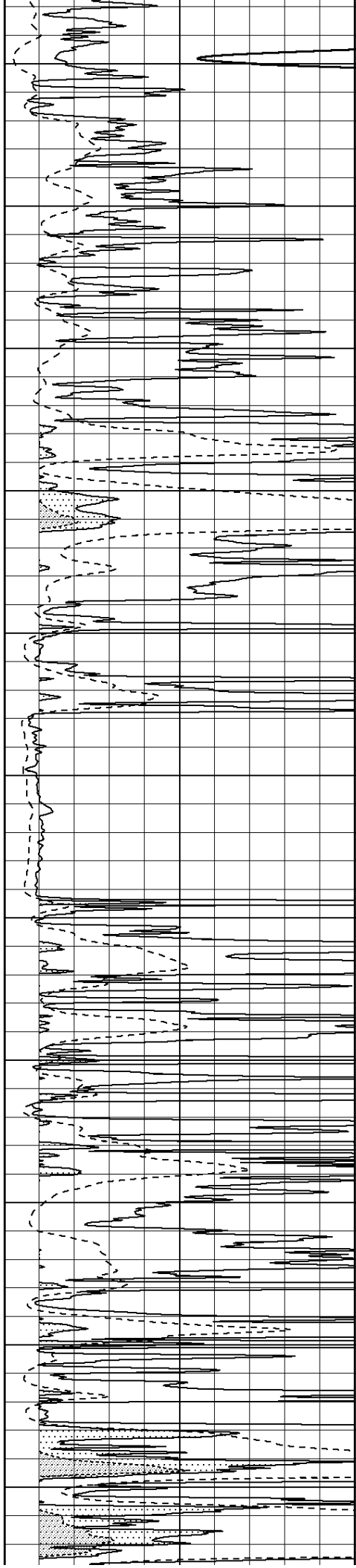
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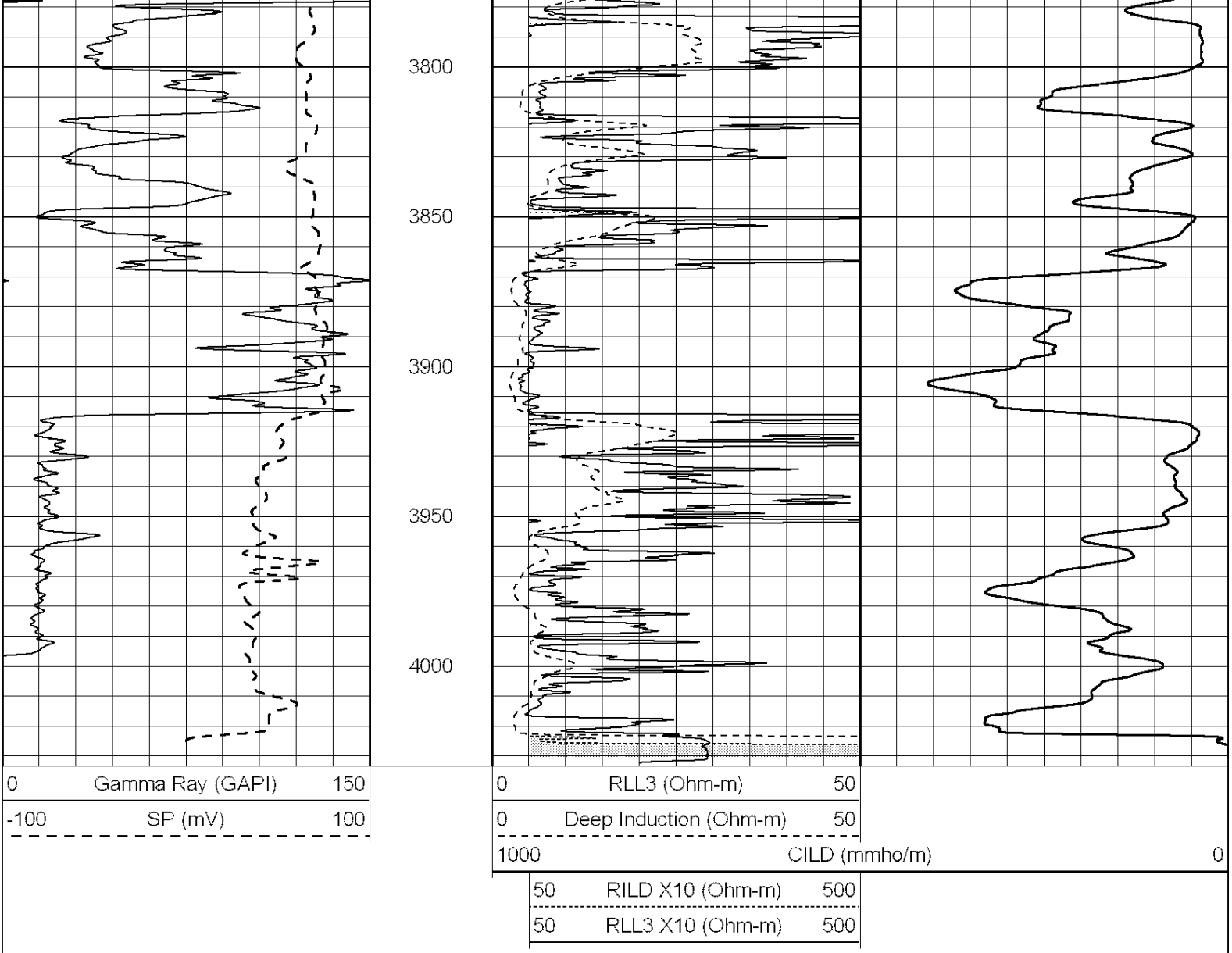




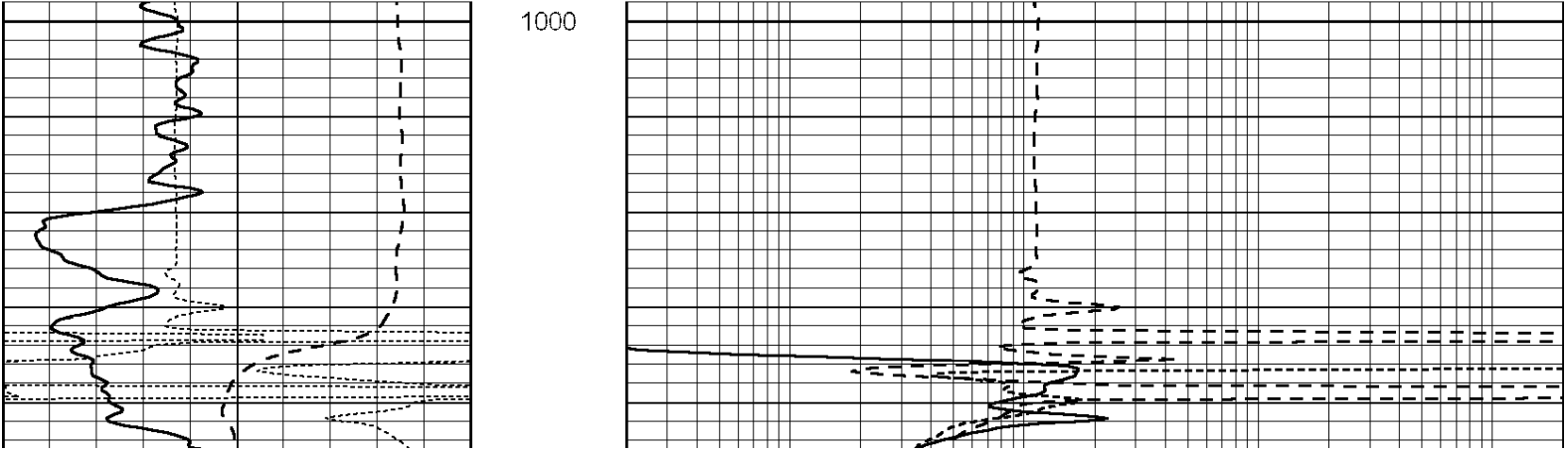
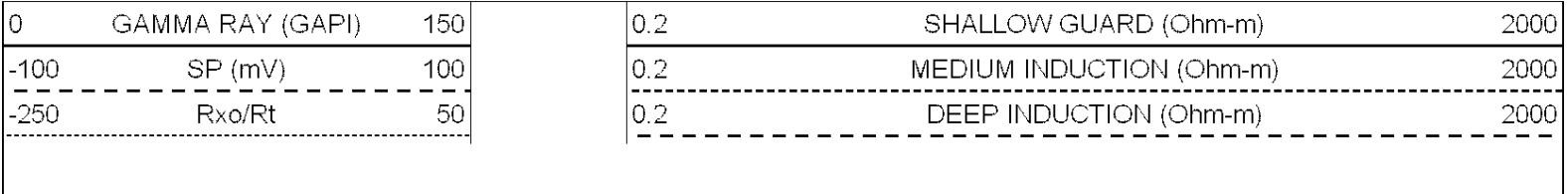


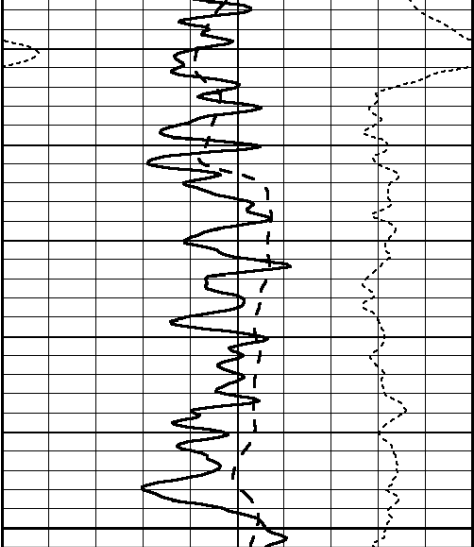
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Presentation Format: _dil
Dataset Creation: Tue Jan 11 19:57:30 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

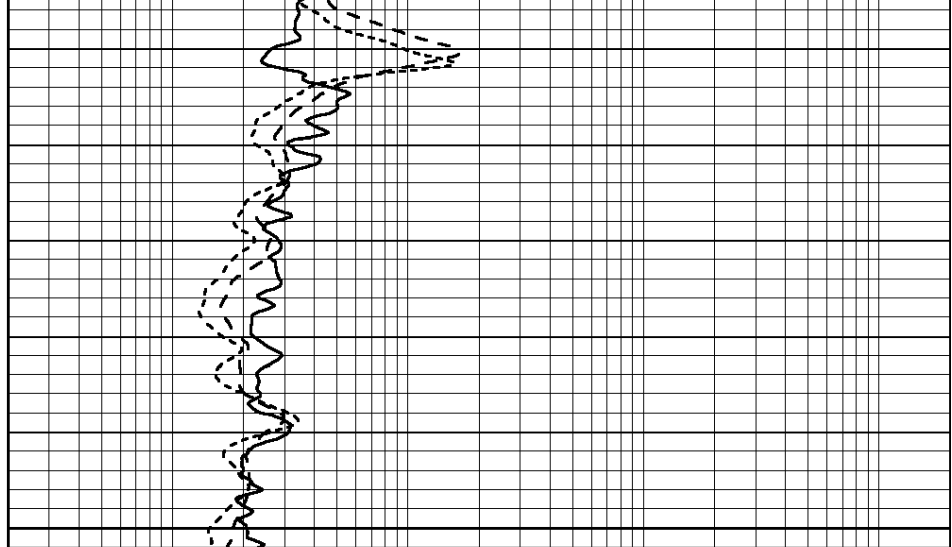




1050

1100

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

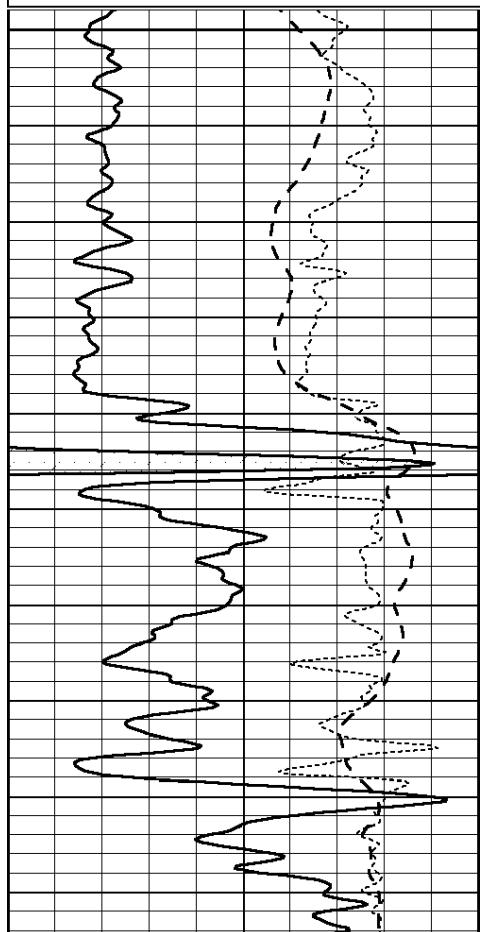


0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

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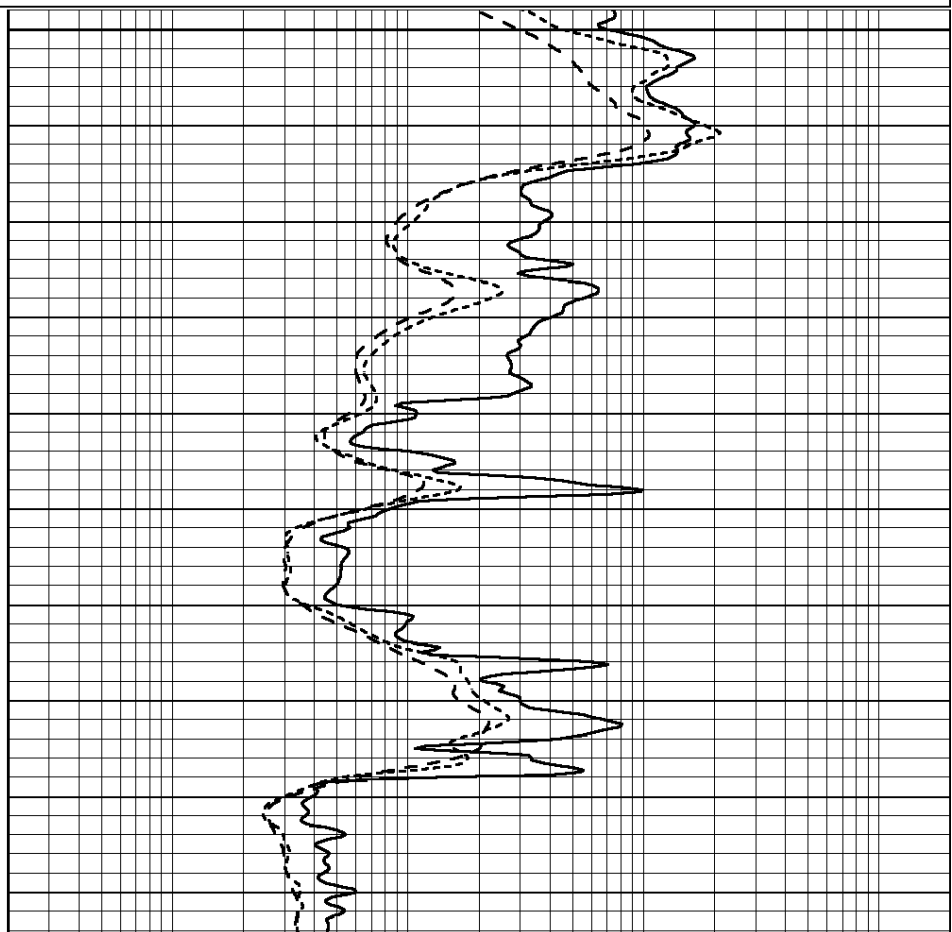
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-100	SP (mV)	100
-250	Rxo/Rt	50

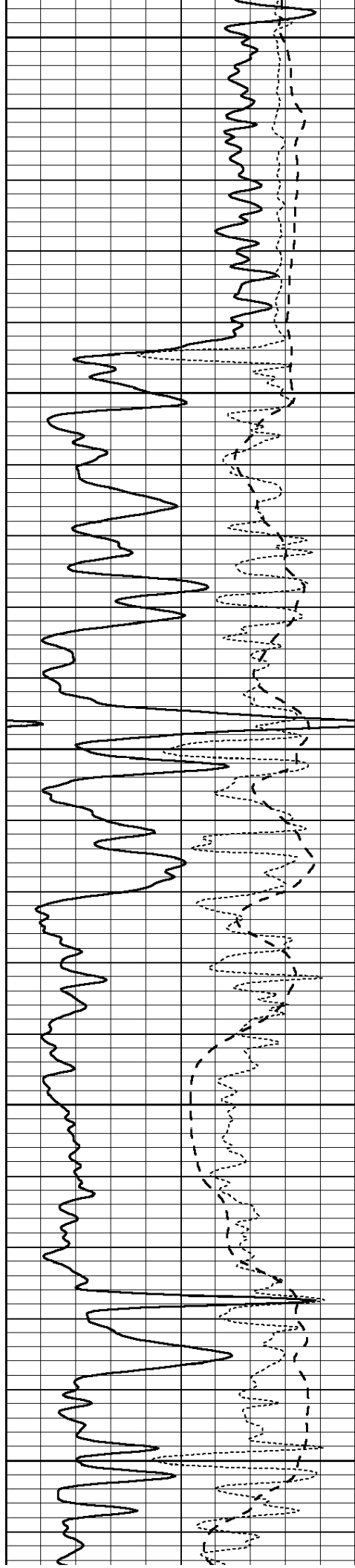
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



3400

3450





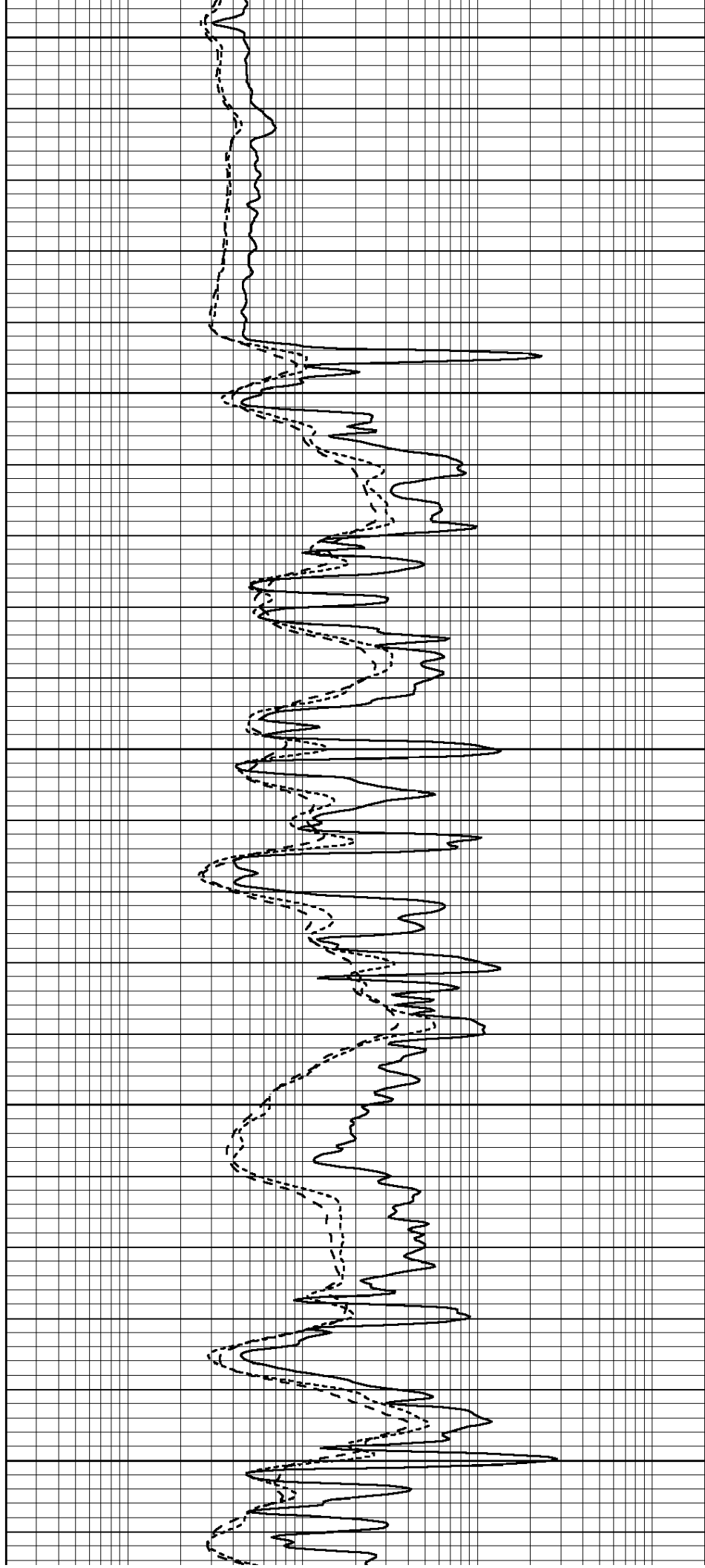
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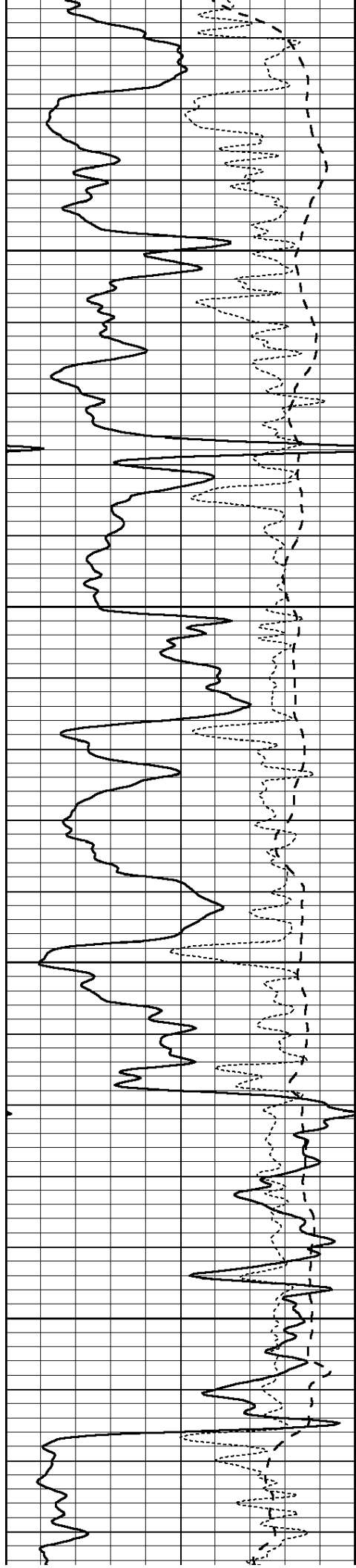
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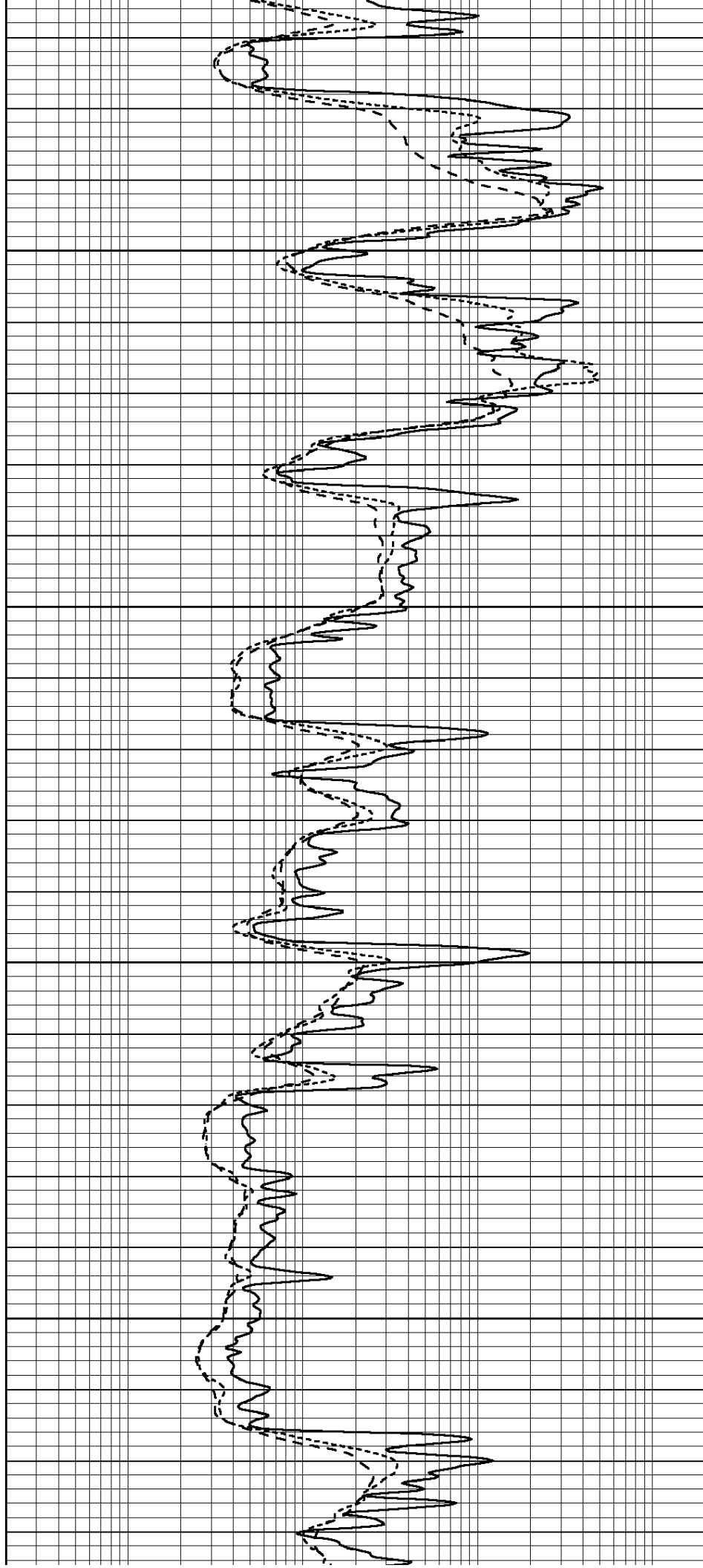


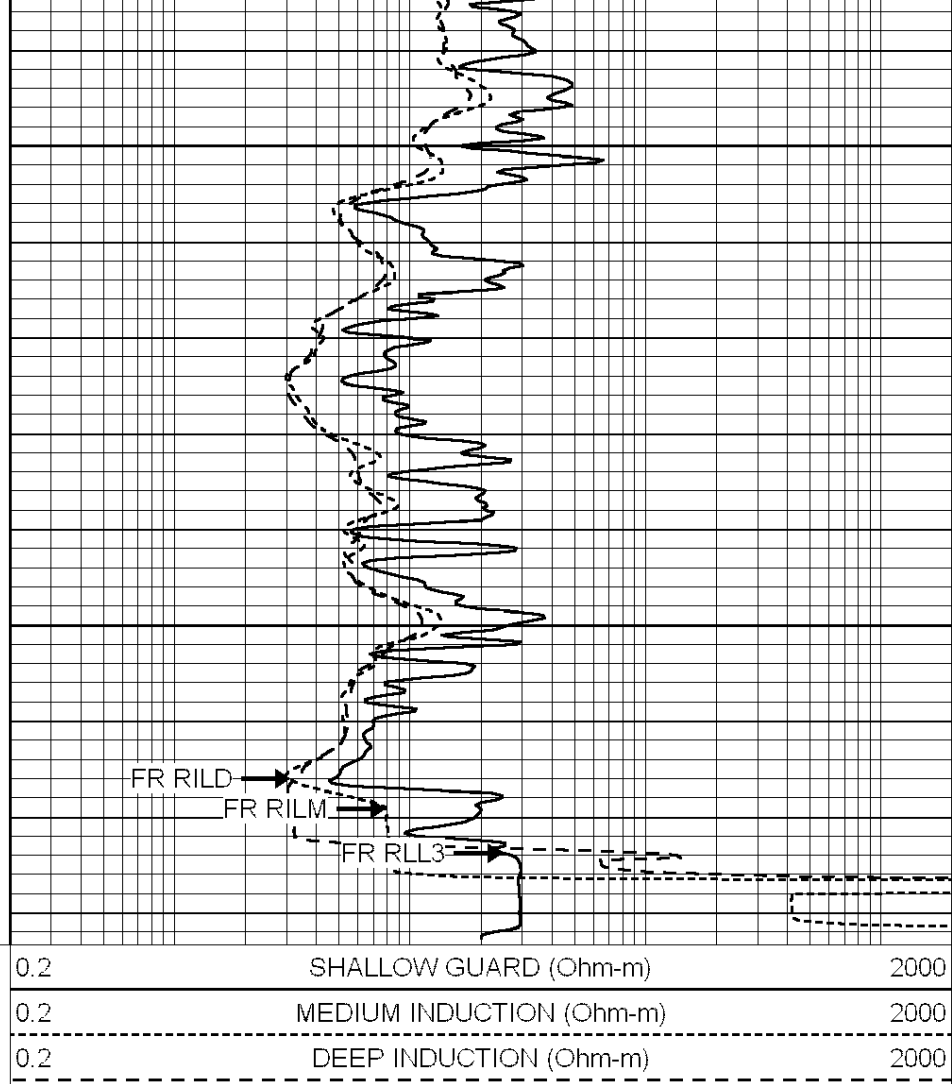
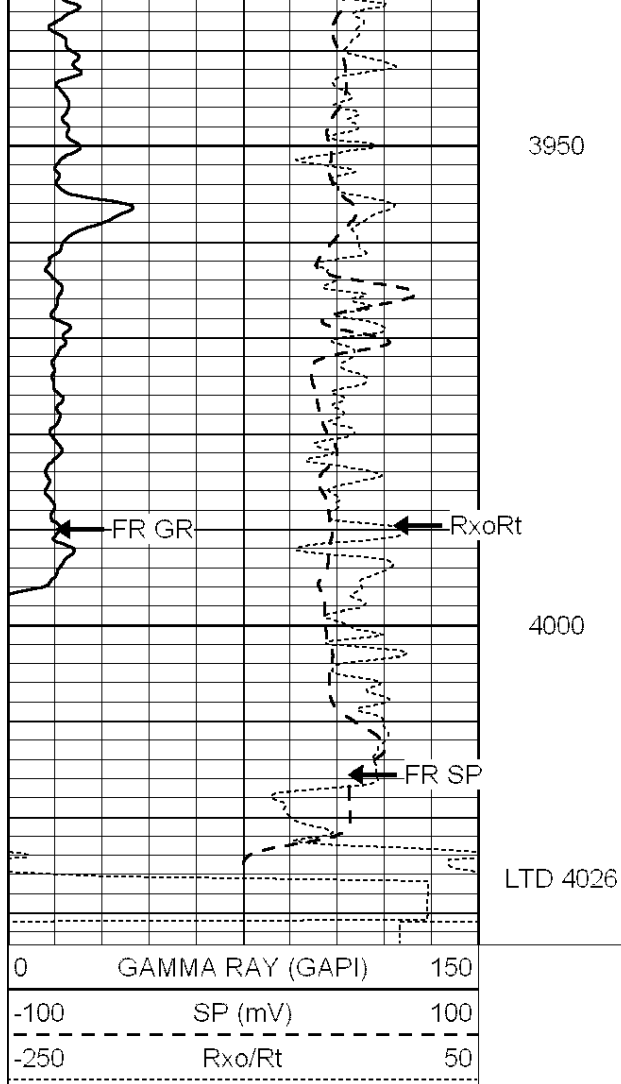
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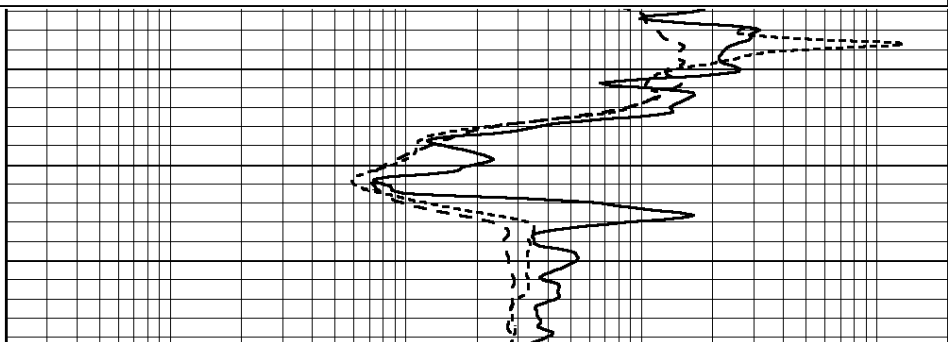
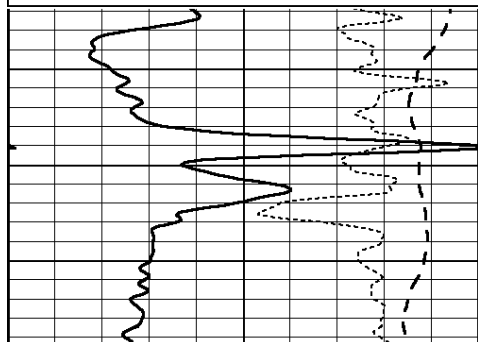
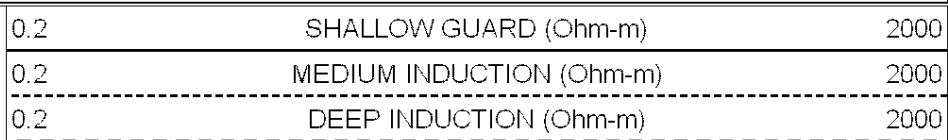
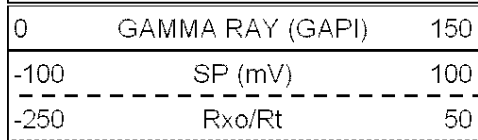


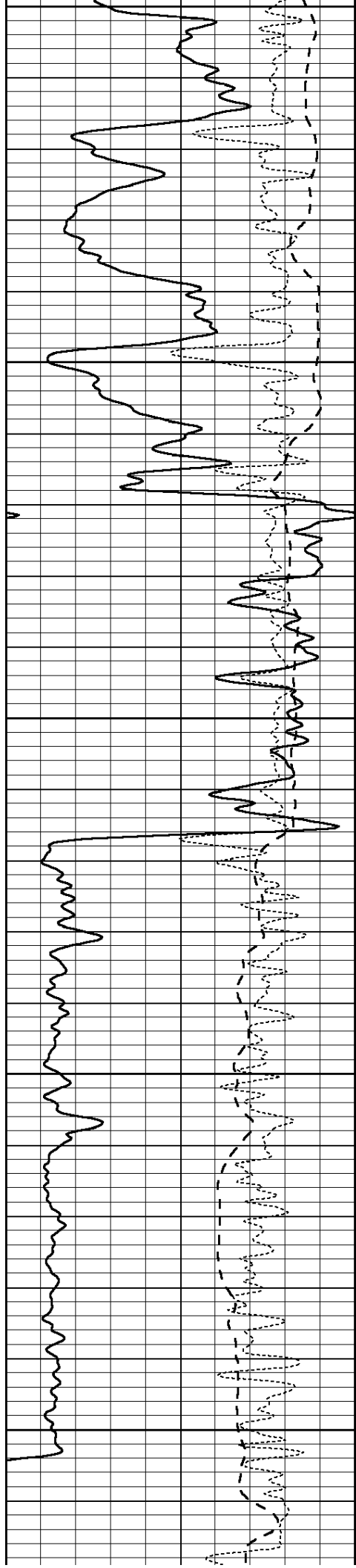


SUPERIOR
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REPEAT SECTION

Database File: 006444.db
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 Charted by: Depth in Feet scaled 1:240





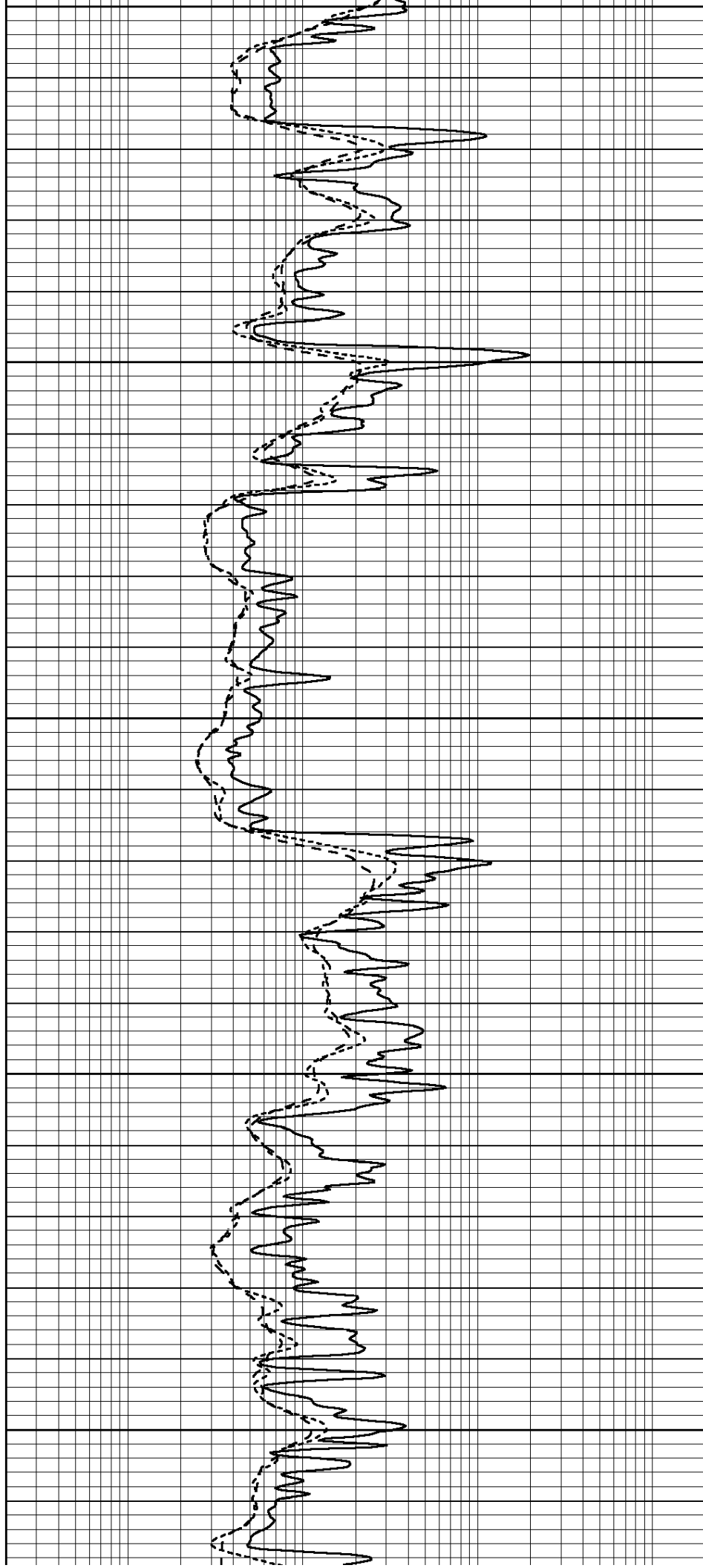
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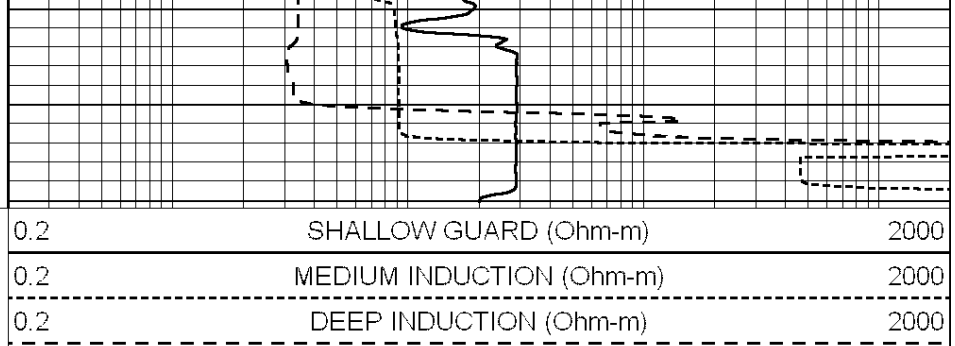
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4000





Database File: 006444.db
Dataset Pathname: pass3.3
Dataset Creation: Tue Jan 11 19:57:30 2011 by Calc Open-CaseD 090629

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Jul 30 06:14:24 2008
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Serial-Model: GEAR4-GEARHART
Source / Verifier: 143 / 143
Master Calibration Performed: Tue May 11 10:59:10 2010

Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1015.91		497.51	cps
Aluminum	2.580	g/cc		227.67		350.20	cps
Spine Angle = 76.79			Density/Spine Ratio = 0.566				
	Size			Reading			
Small Ring	8.00	in		2.50		V	
Large Ring	14.00	in		4.70		V	

Compensated Neutron Calibration Report
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Serial Number:	5I
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:	GR6	
Tool Model:	OPEN	
Performed:	Wed Jul 14 14:14:30 2010	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.7635	GAPI/cps