

DUAL INDUCTION LOG

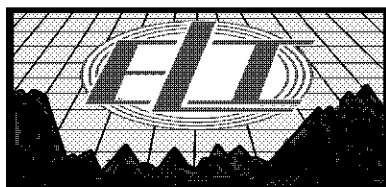
Company		CASTLE RESOURCES, INC.	
Well	HJP #1		
Field	WILDCAT		
County	SALINE		
State	KANSAS		
Location:		API # : 15-169-20361-0000	Other Services CDL/CNL MEL
Permanent Datum		SEC 34 TWP 16S RGE 3W	Elevation
Log Measured From		GROUND LEVEL	Elevation 1309
Drilling Measured From		KELLY BUSHING 5' A.G.L	K.B. 1314
		KELLY BUSHING	D.F. 1312
			G.L. 1309
Date	10/1/18		
Run Number	ONE		
Depth Driller	3517		
Depth Logger	3517		
Bottom Logged Interval	3515		
Top Log Interval	00		
Casing Driller	8 5/8" @ 374'		
Casing Logger	374		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2000 PPM	
Density / Viscosity	9.4/41		
pH / Fluid Loss	9.5/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.40 @ 81F		
Rmf @ Meas. Temp	1.05 @ 81F		
Rmc @ Meas. Temp	1.68 @ 81F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.01 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	112F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JERRY GREEN	RANDY HUTCHINSON	

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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 ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
SALINA, KS. - SOUTH TO LINDSBORG EXIT 78 - 2 1/4 WEST - 1 1/4 NORTH - EAST INTO

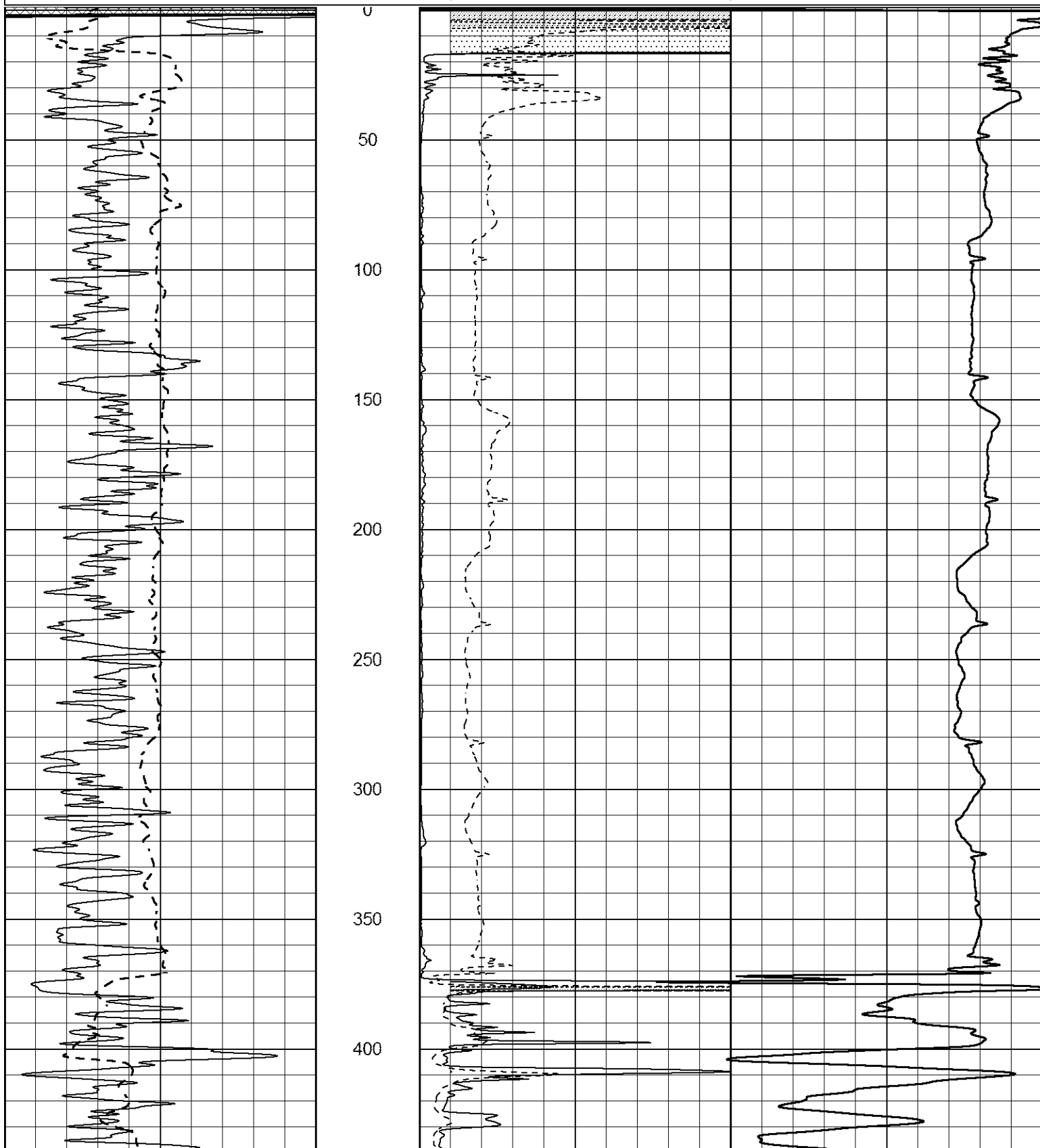


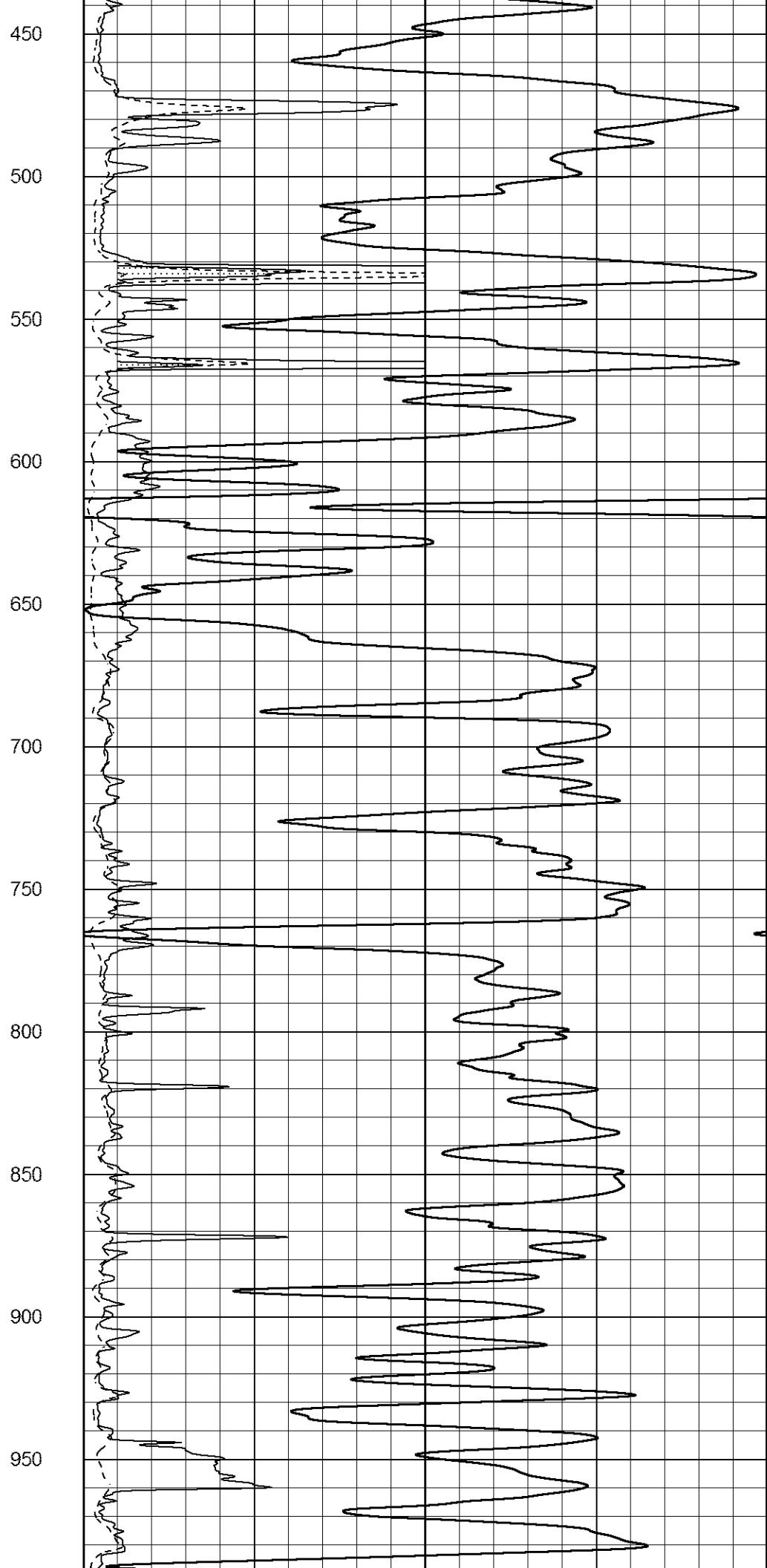
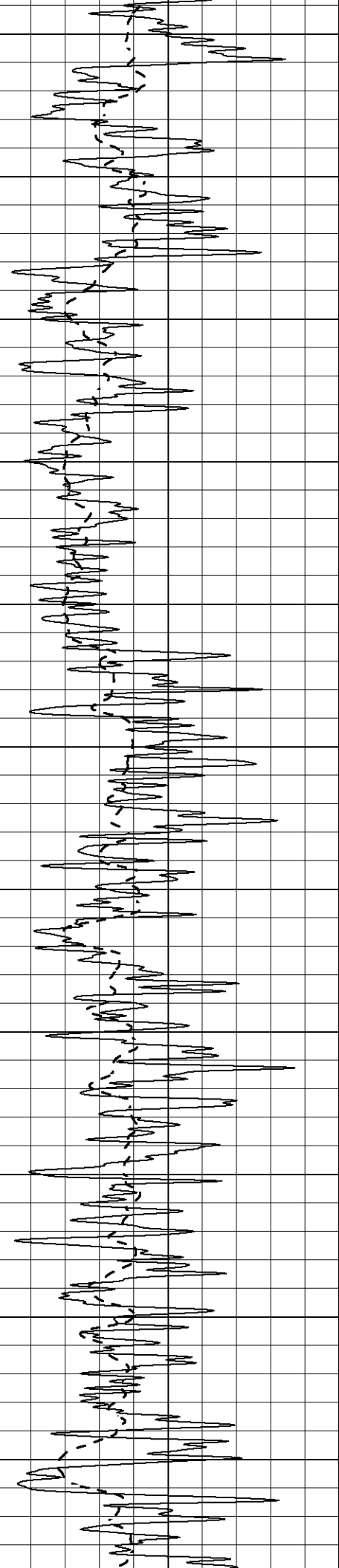
MAIN SECTION

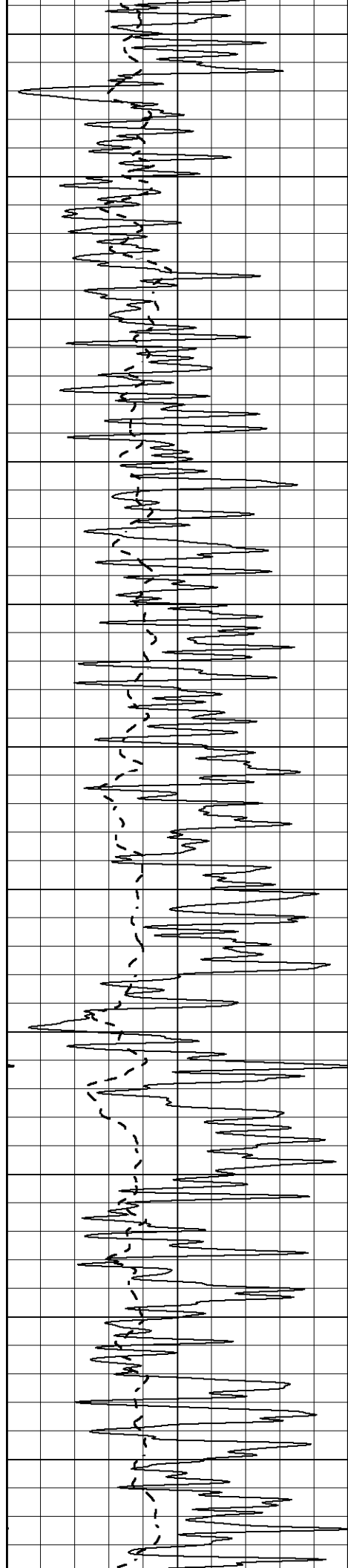
Database File 3006ddn8.db
Dataset Pathname pass3.2
Presentation Format _dil2
Dataset Creation Mon Oct 01 11:39:37 2018
Charted by Depth in Feet scaled 1:600

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

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







1000

1050

1100

1150

1200

1250

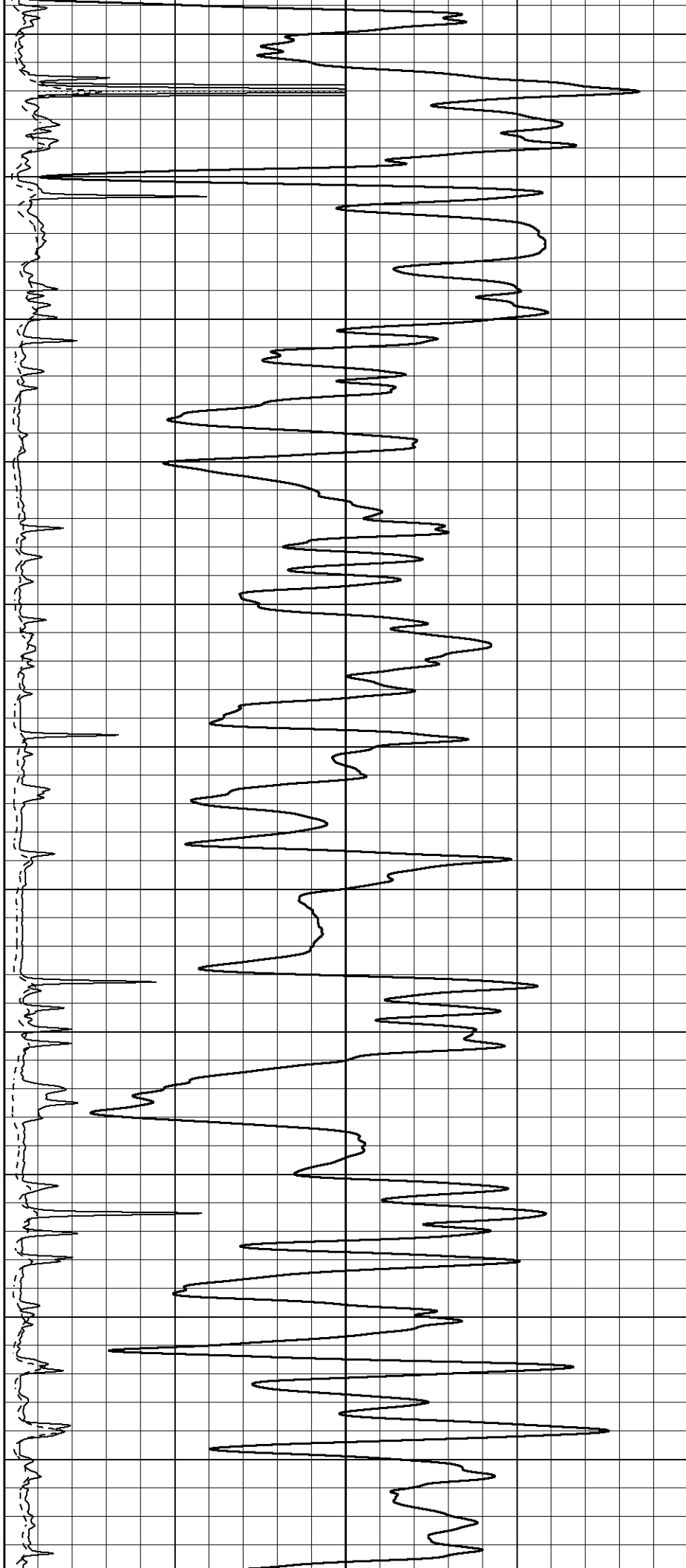
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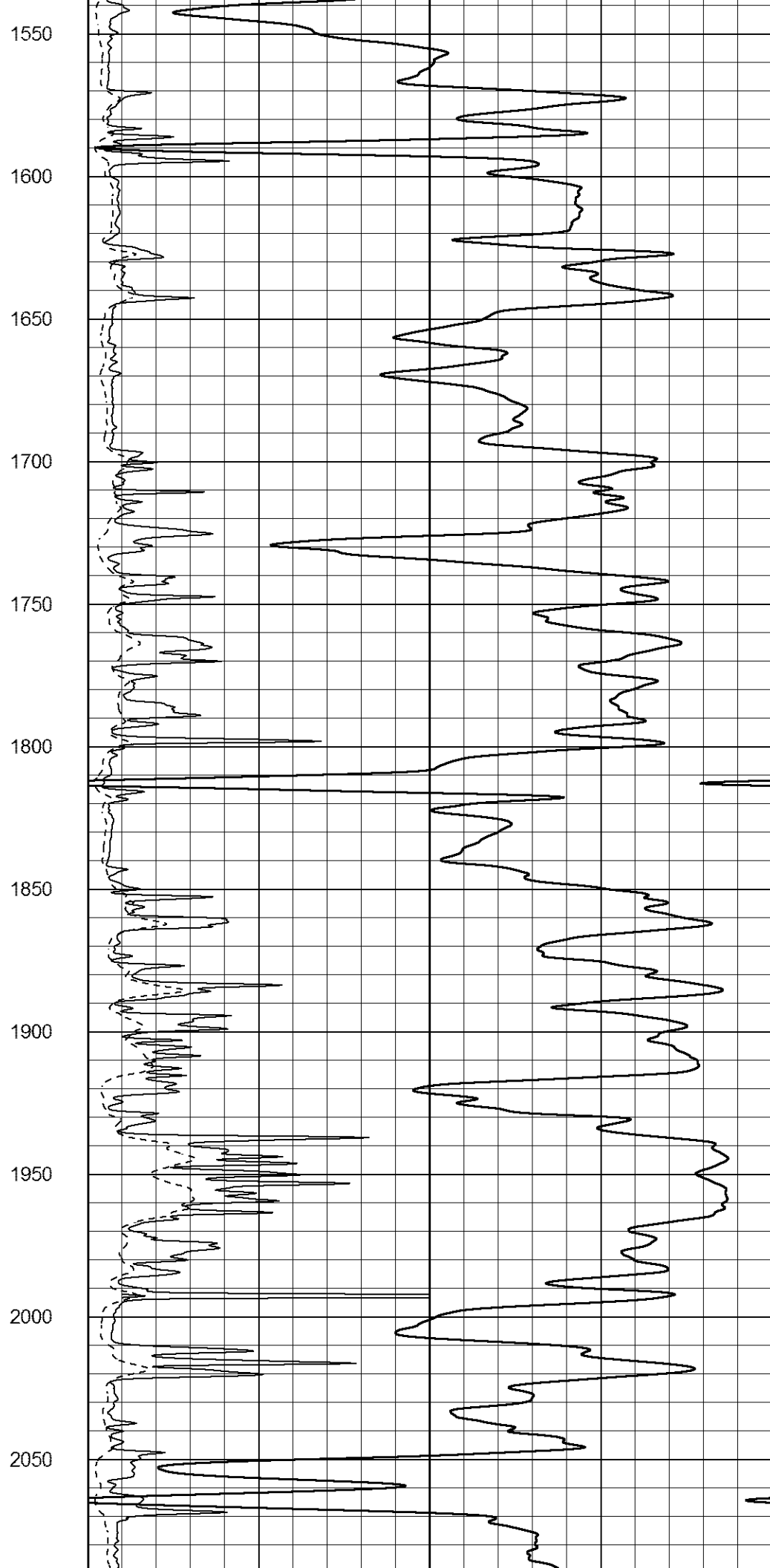
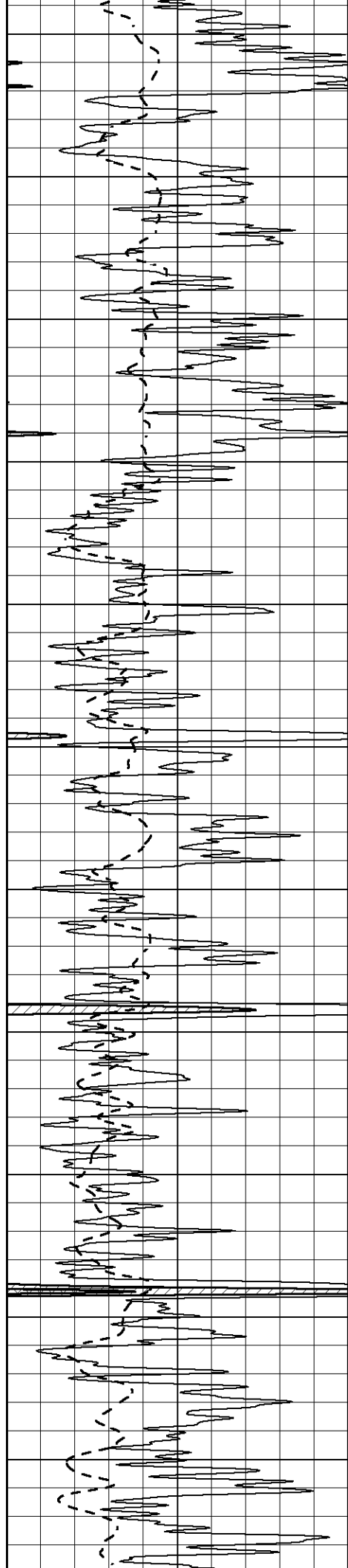
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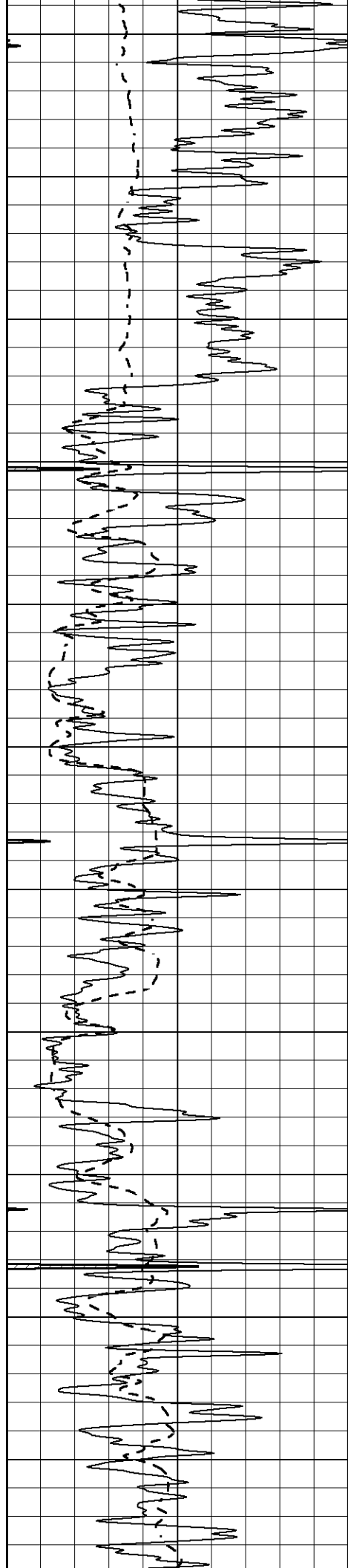
1400

1450

1500







2100

2150

2200

2250

2300

2350

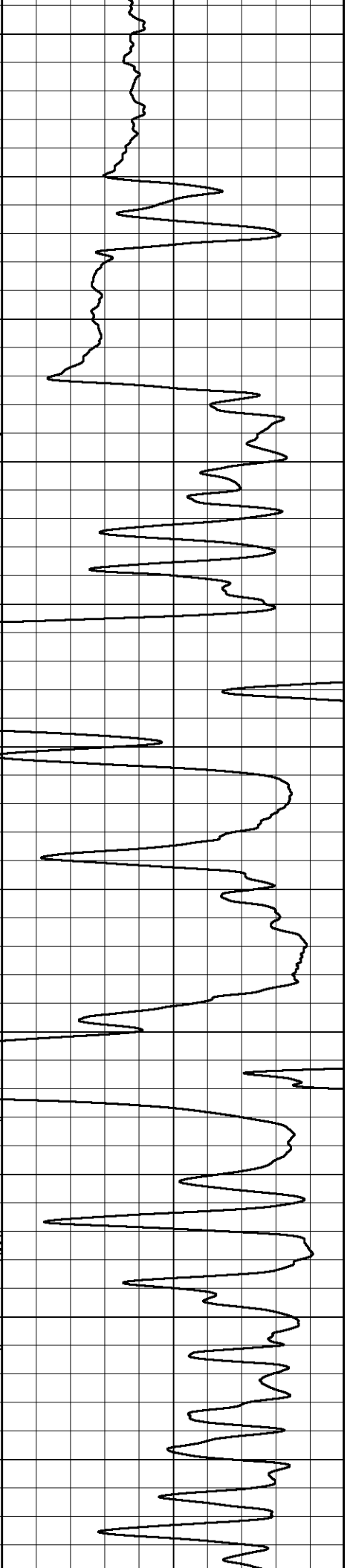
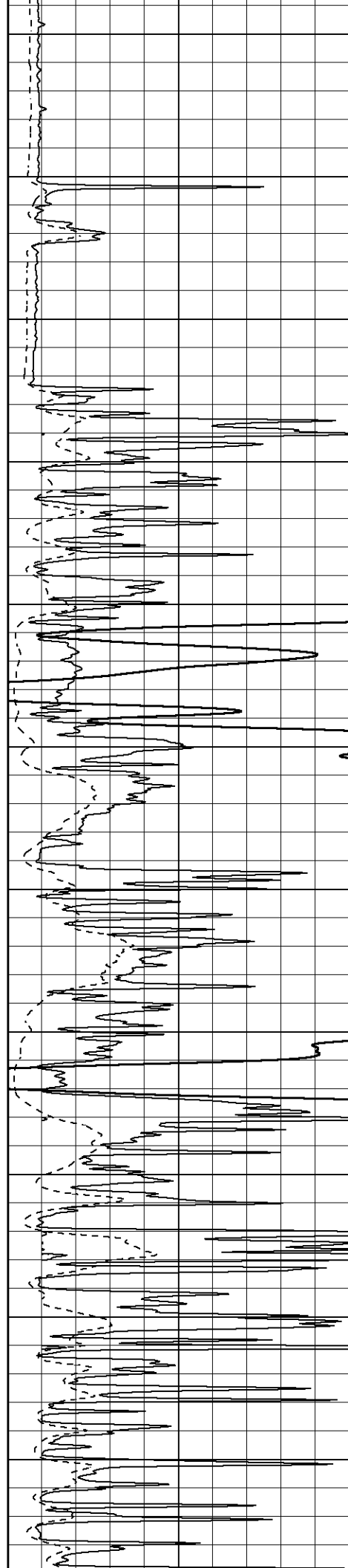
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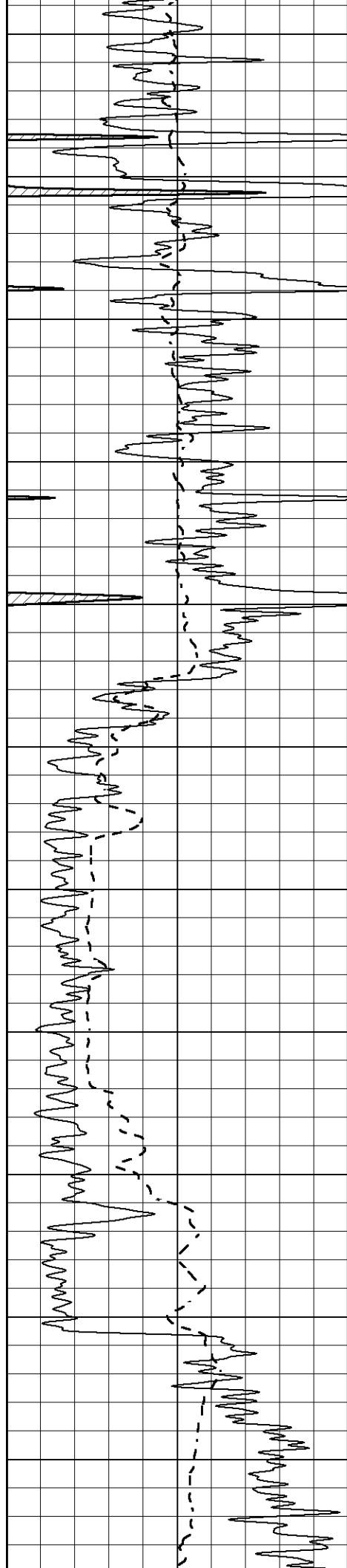
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

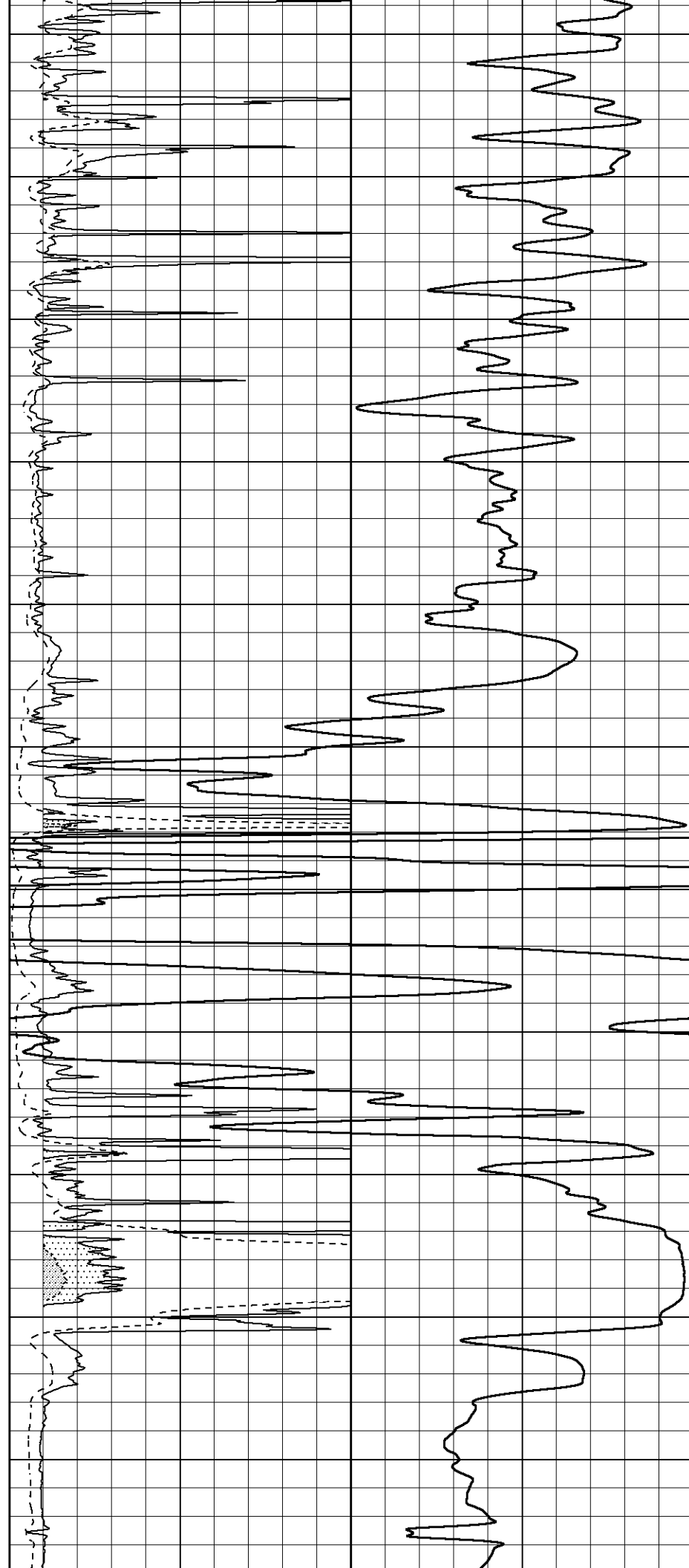
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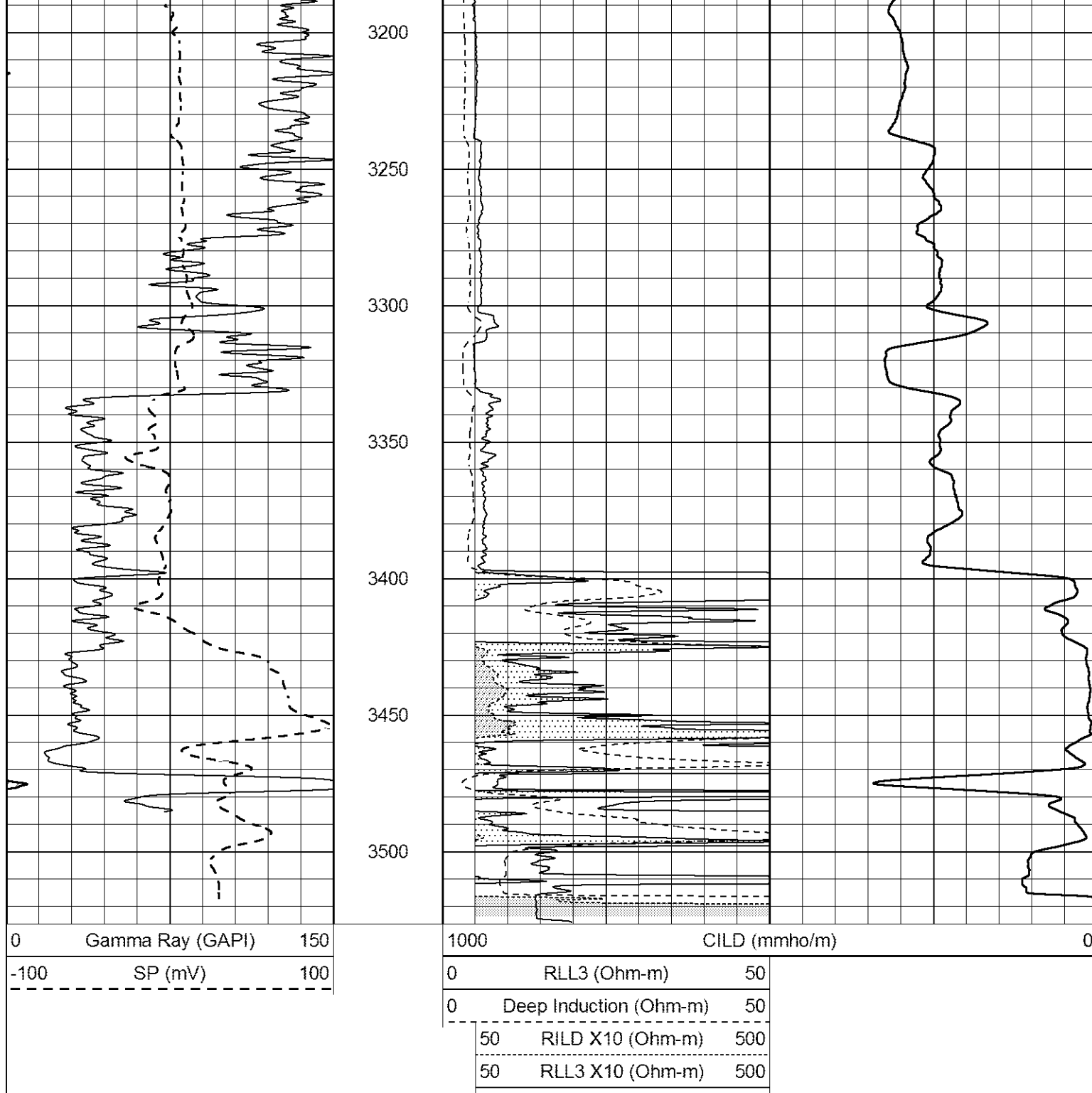
3000

3050

3100

3150



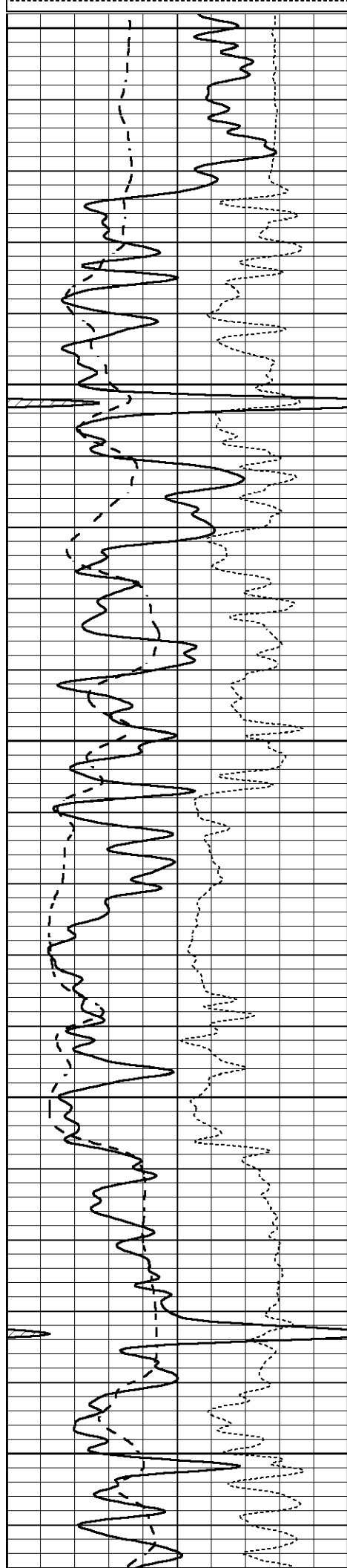


MAIN SECTION

Database File 3006ddn8.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Mon Oct 01 10:56:51 2018
 Charted by Depth in Feet scaled 1:240

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



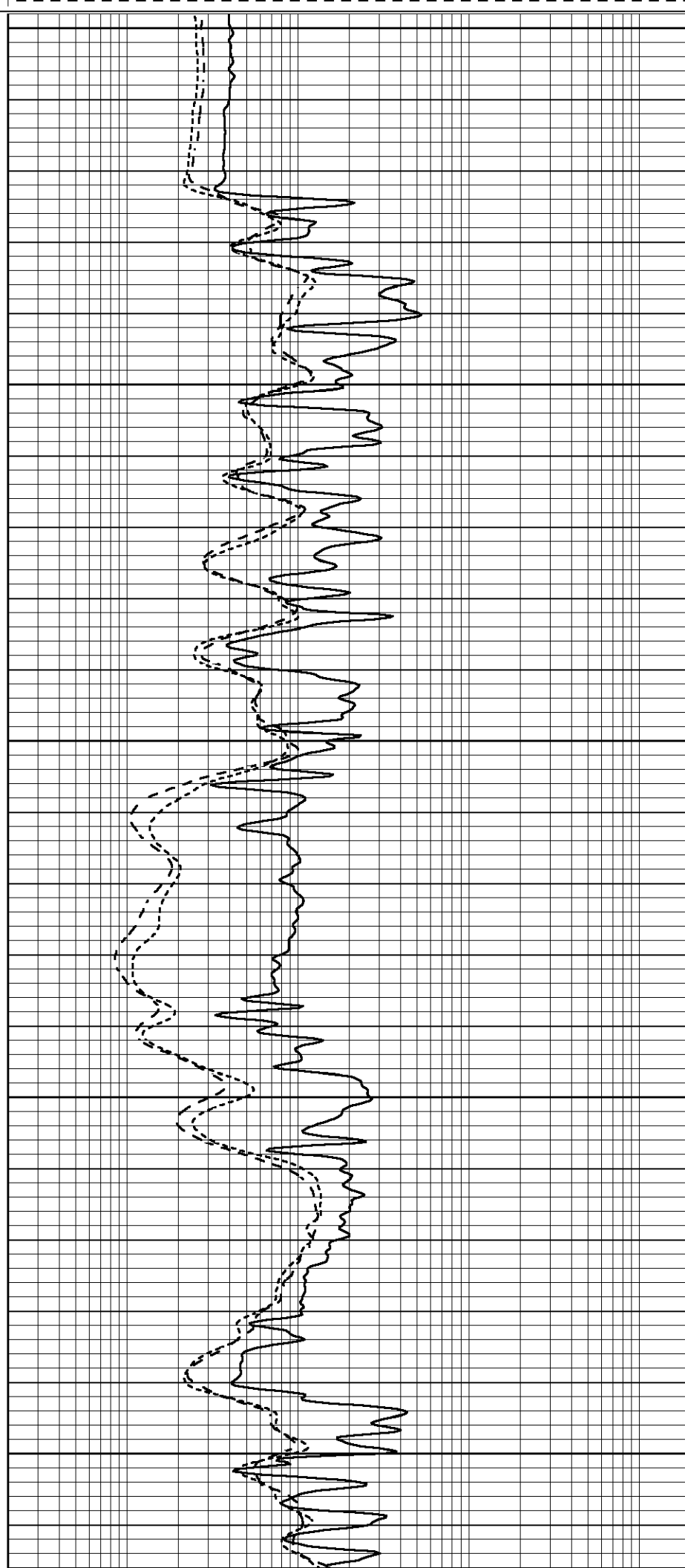
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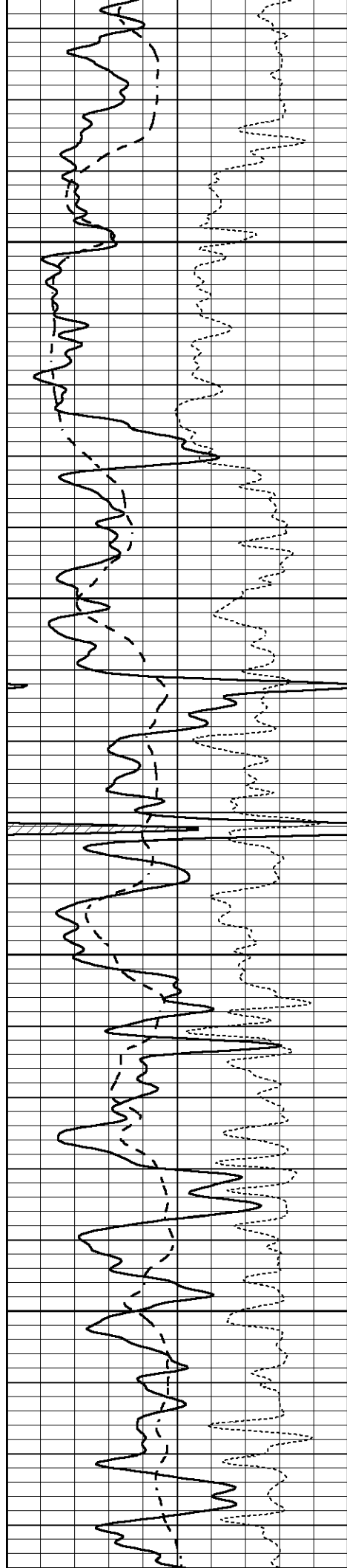
2250

2300

2350

2400



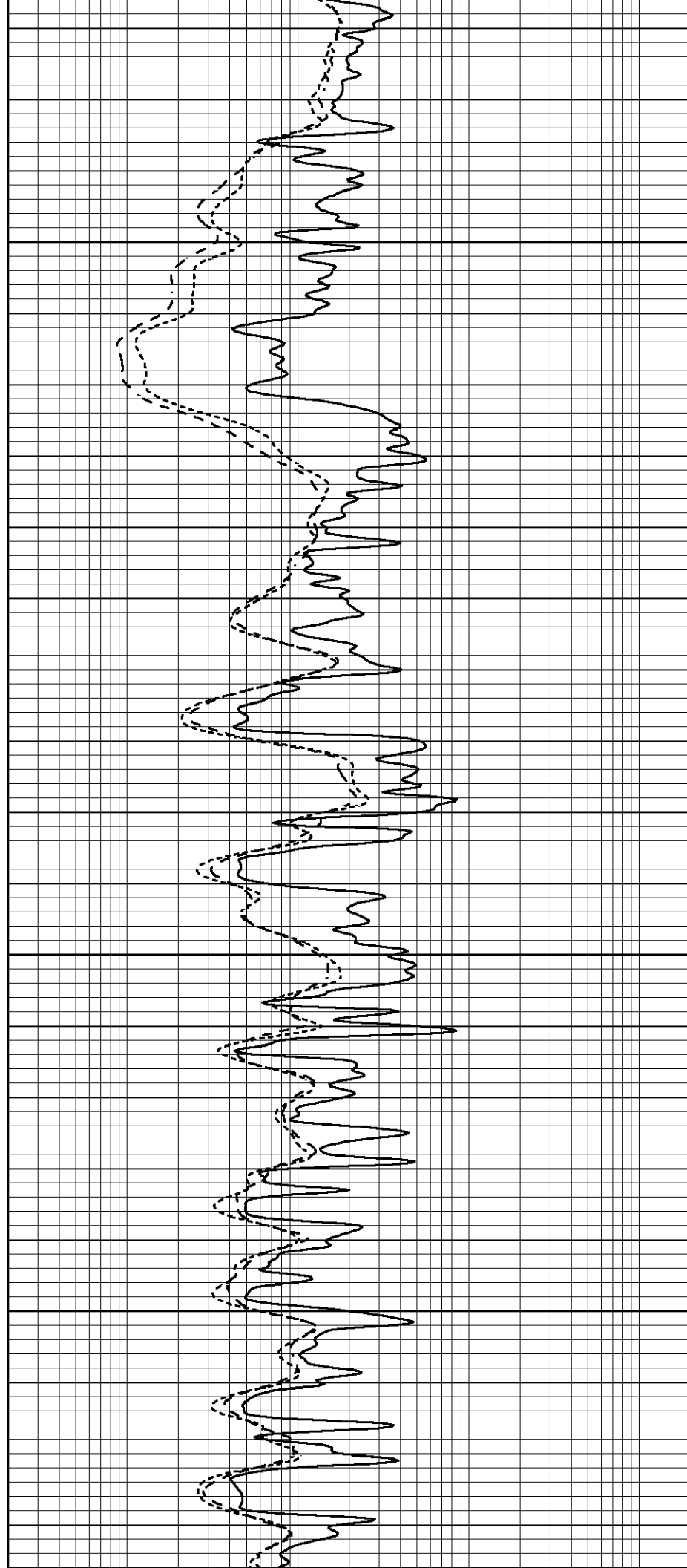


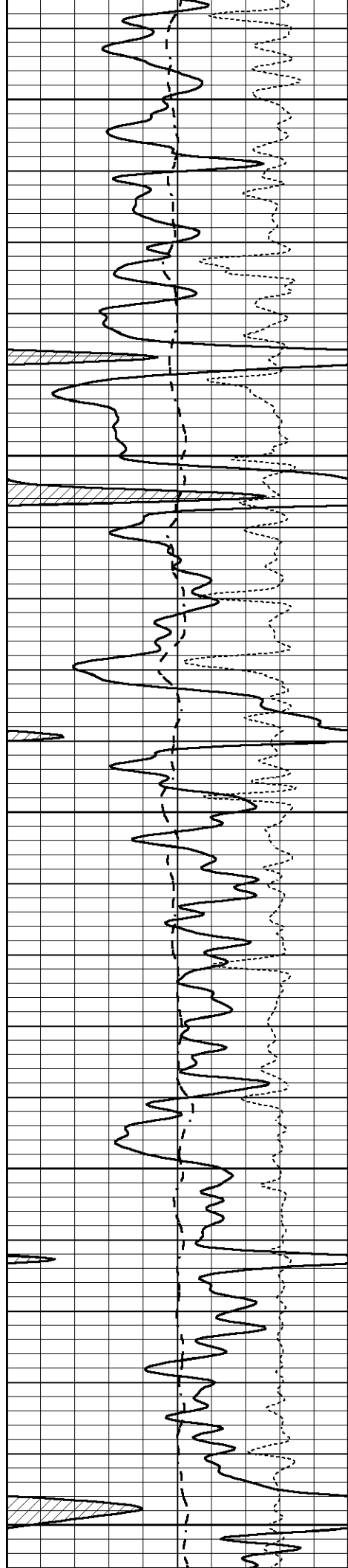
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2500

2550

2600





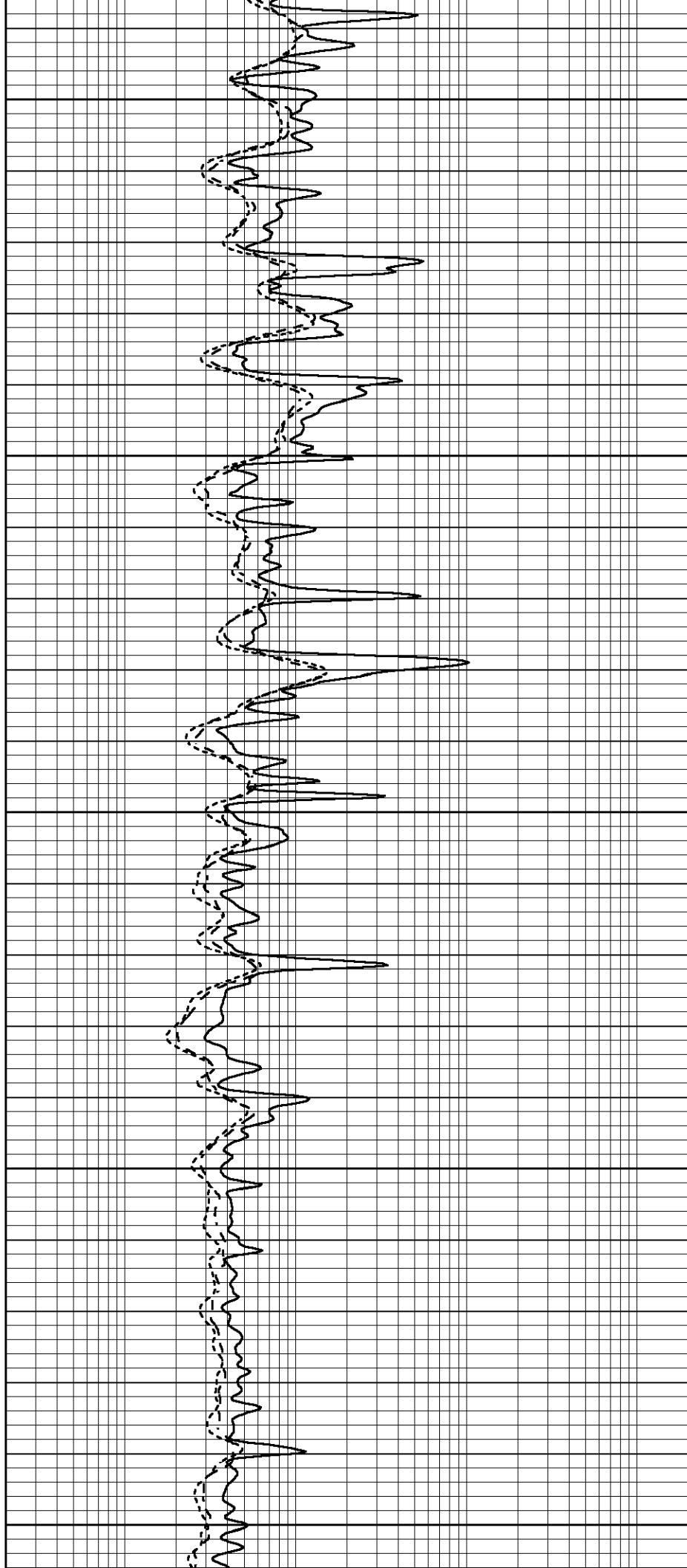
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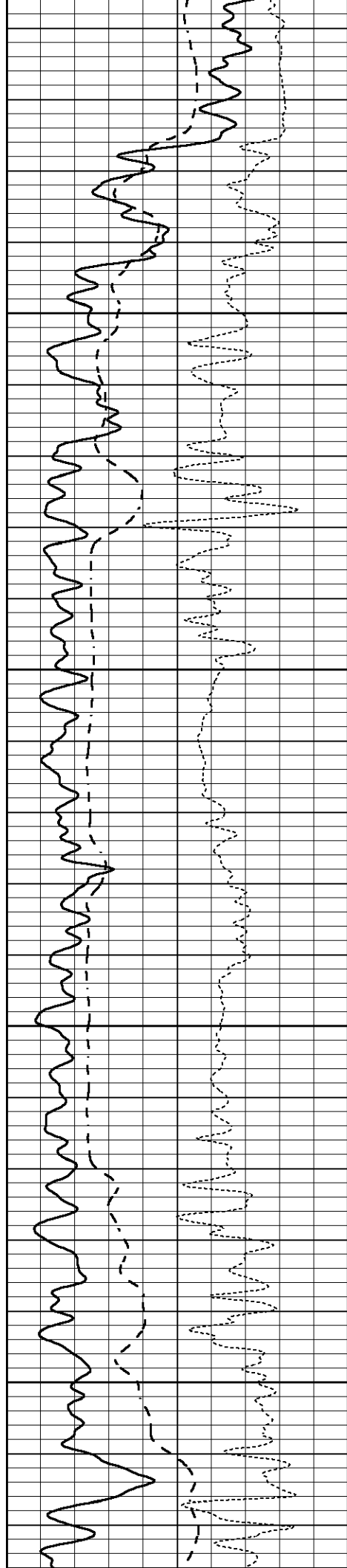
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2750

2800

2850



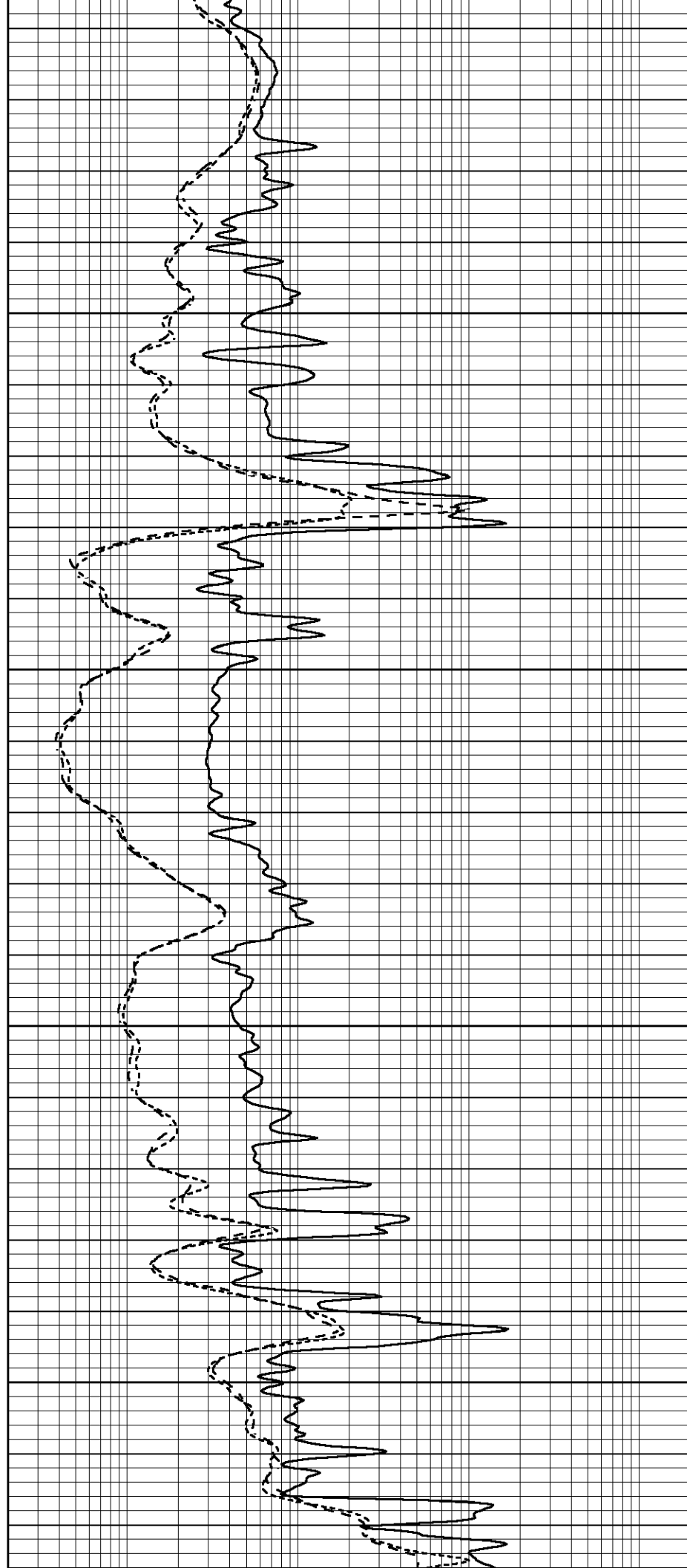


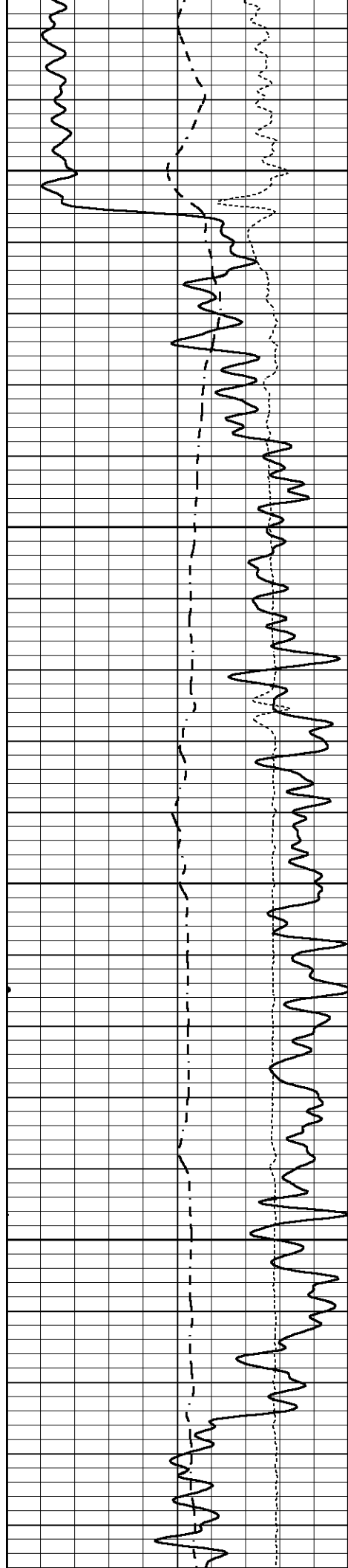
2900

2950

3000

3050



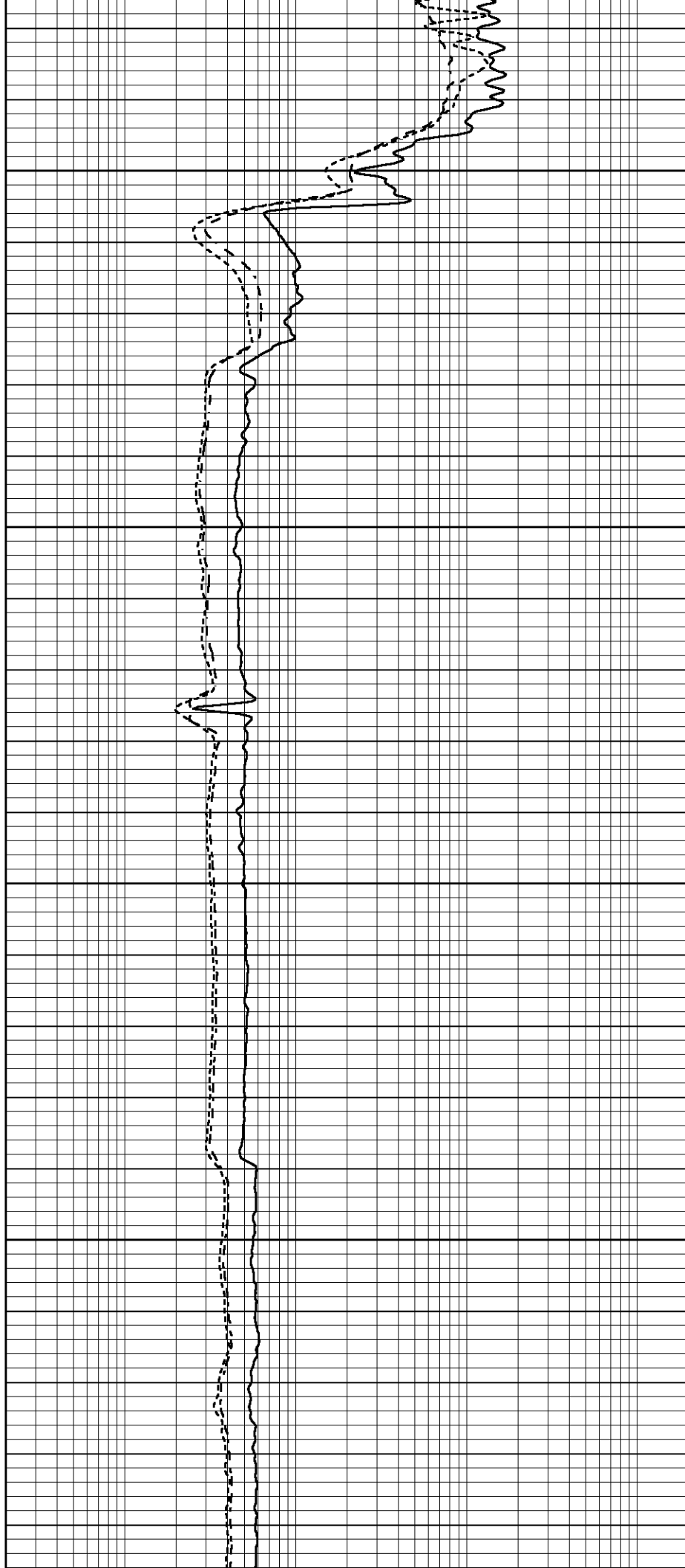


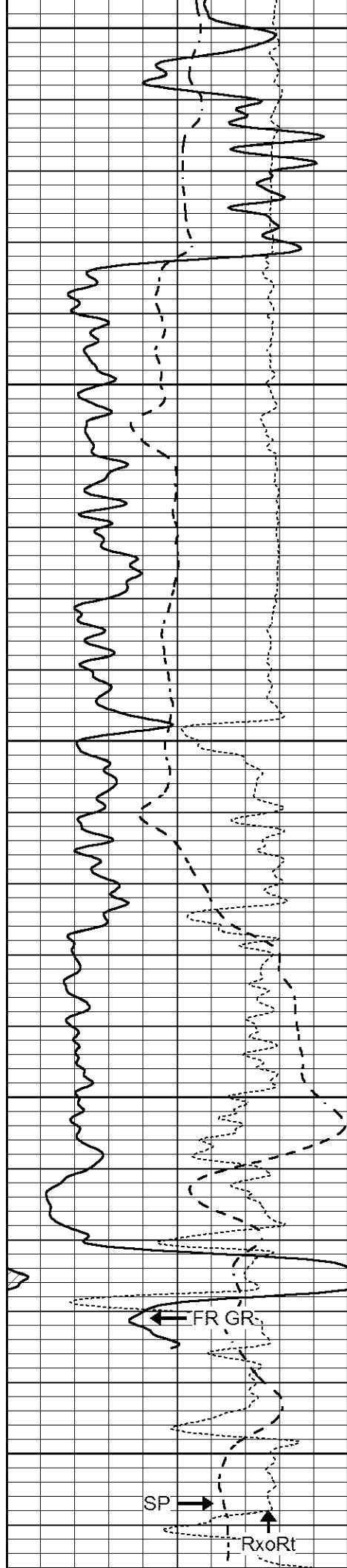
3100

3150

3200

3250





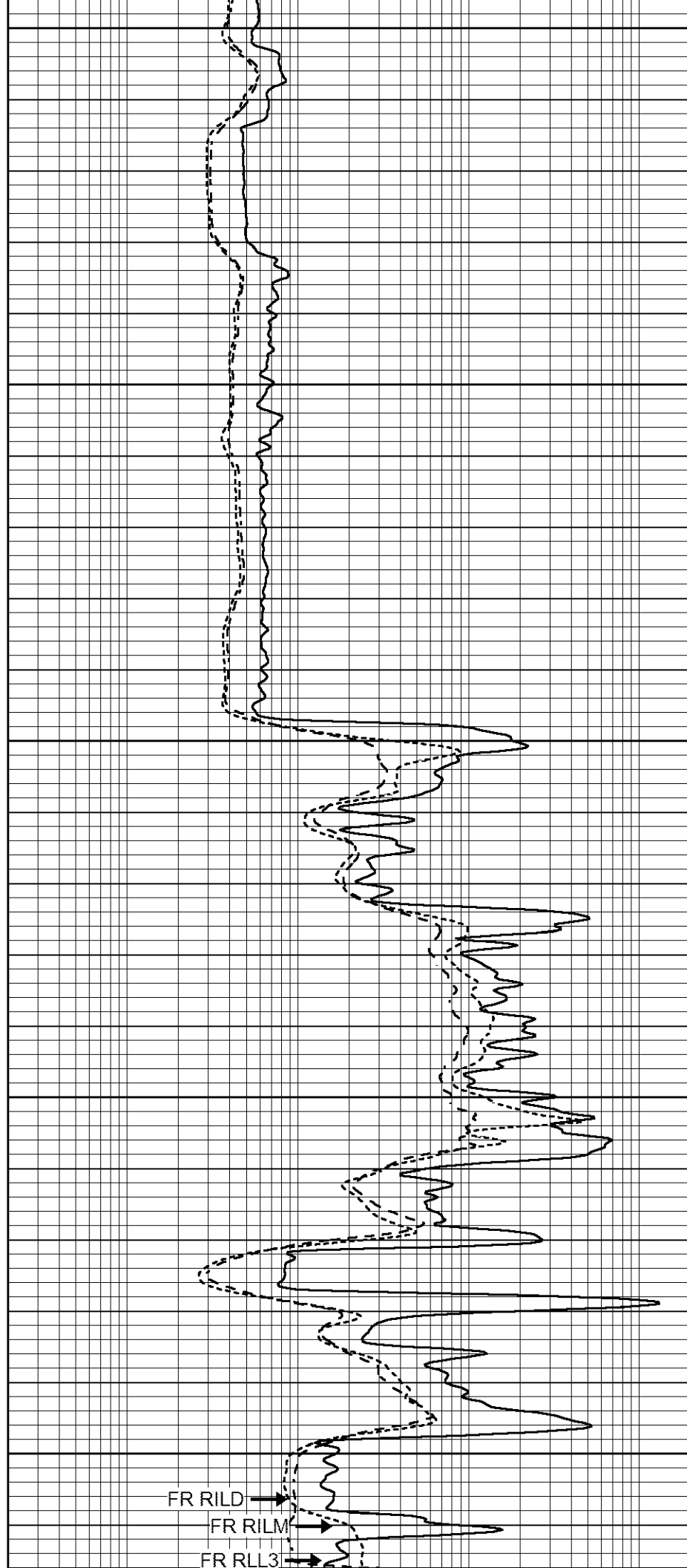
3300

3350

3400

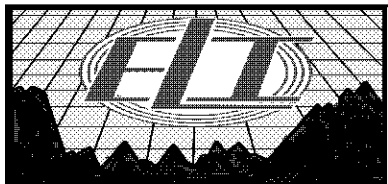
3450

3500



LTD 3517		
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

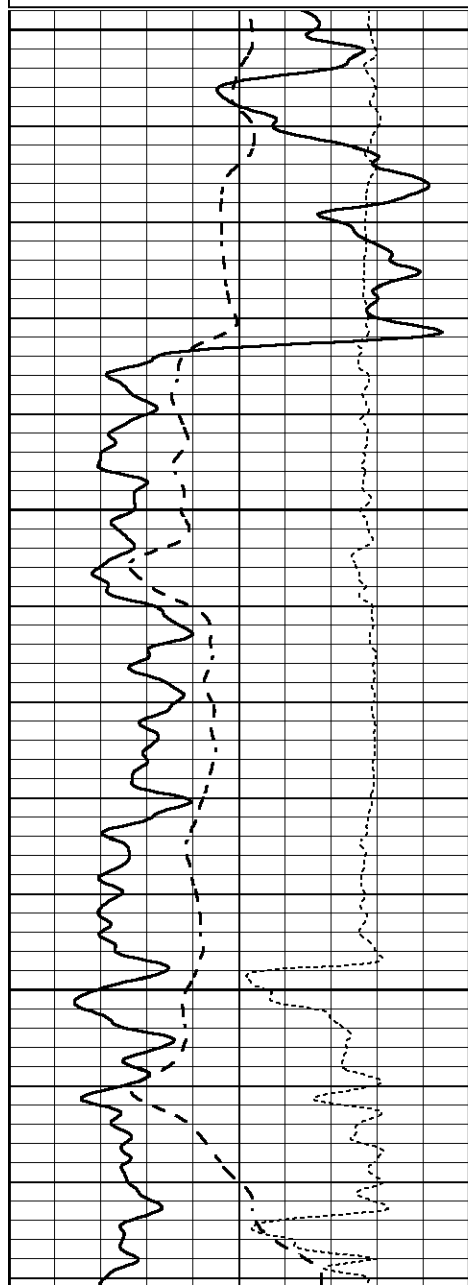


REPEAT SECTION

Database File 3006ddn8.db
 Dataset Pathname pass2.2
 Presentation Format _dil
 Dataset Creation Mon Oct 01 11:03:24 2018
 Charted by Depth in Feet scaled 1:240

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

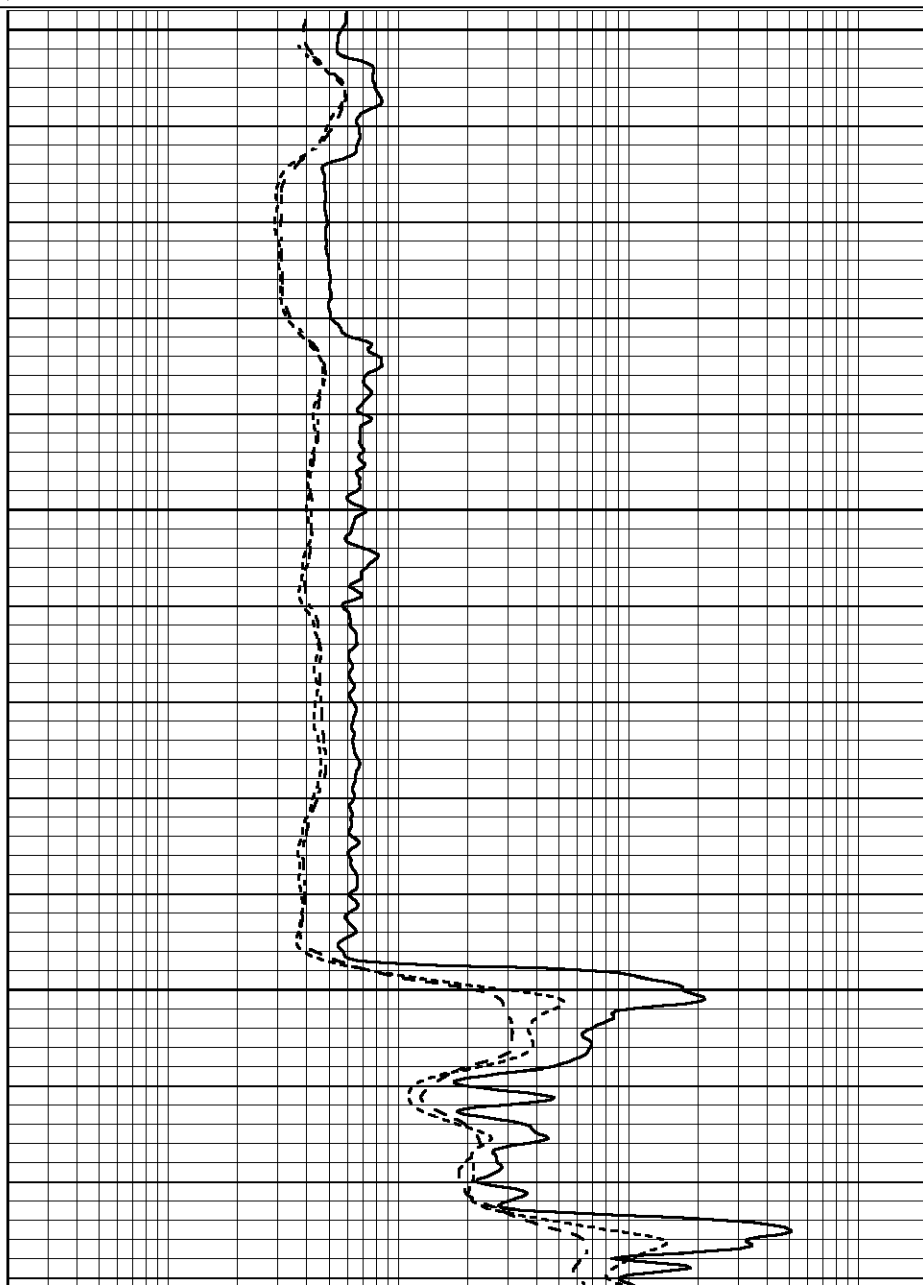
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

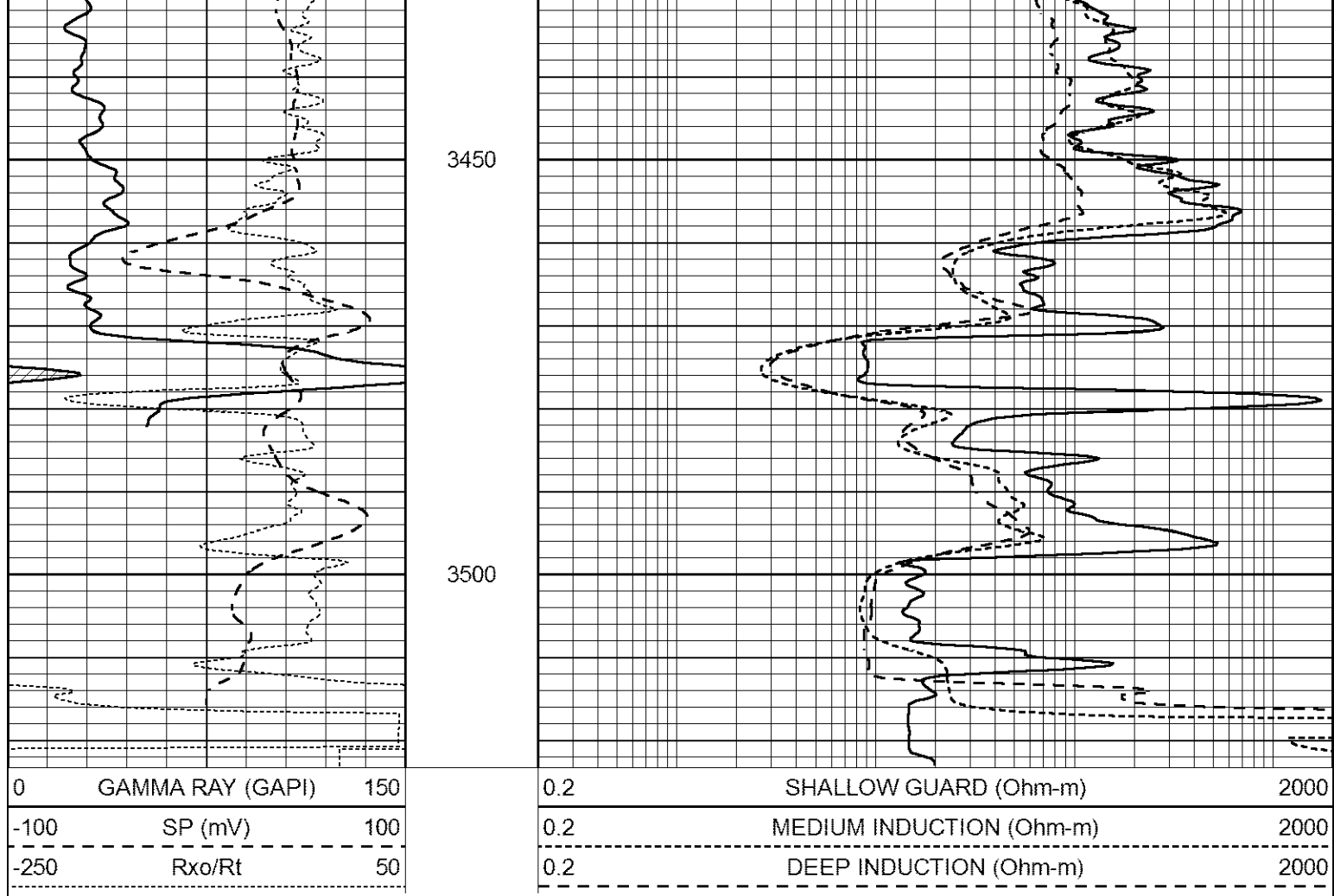


3300

3350

3400





Calibration Report

Database File 3006ddn8.db
 Dataset Pathname pass2.2
 Dataset Creation Mon Oct 01 11:03:24 2018

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
U3		7.503	V		1500.000	Ohm-m		

LL3	7.500	V	1500.000	Ohm-m				
	0.001	V	20.000	Ohm-m				
	-7.481	V	3745.000	mmho-m				
After Survey Verification								
	Readings		Targets		Results			
	Zero	Cal	Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
Compensated Neutron Calibration Report								
Serial Number:				080621PMC				
Tool Model:				NABORS				
PRE-SURVEY VERIFICATION								
Detector		Readings		Measured		Target		
Short Space		cps						
Long Space		cps		pu		pu		
POST-SURVEY VERIFICATION								
Detector		Readings		Measured		Target		
Short Space		cps						
Long Space		cps		pu		pu		
Gamma Ray Calibration Report								
Serial Number:		7						
Tool Model:		Probe1						
Performed:		Wed Jun 29 11:10:58 2016						
Calibrator Value:		1.0		GAPI				
Background Reading:		0.0		cps				
Calibrator Reading:		1.0		cps				
Sensitivity:		0.4300		GAPI/cps				