



**DUAL
INDUCTION
LOG**

Company CHOLLA PRODUCTION, LLC
 Well ALBERT #1-3
 Field DIEBOLT EAST
 County TREGO State KANSAS

Location: API #: 15-191-23135-0000
 2290' FSL & 210' FEL
 SE/NE/NE/SE
 SEC 3 TWP 11S RGE 23W
 Permanent Datum GROUND LEVEL Elevation 2221
 Log Measured From KELLY BUSHING 8' A.G.L
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL/PE
 MEL/SON
 Elevation
 K.B. 2229
 D.F. 2227
 G.L. 2221

Date	4/10/22
Run Number	ONE
Depth Driller	3850
Depth Logger	3851
Bottom Logged Interval	3849
Top Log Interval	00
Casing Driller	248
Casing Logger	248
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.1/55
PH / Fluid Loss	10.5/5.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.4@68F
Rmt @ Meas. Temp	1.05@66F
Rmc @ Meas. Temp	1.88@66F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	80@115F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	115F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	TJ DREILING
Witnessed By	CHARLIE STURDAVANT

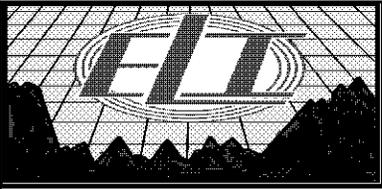
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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 ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS

- WAKEENEY KANSAS AND HIGHWAY 283 EXIT, -NORTH 8 MILES TO "B" RD,
- 1 1/2 MILES EAST TO TANK BATTERIES ON NORTH SIDE OF ROAD,
- FOLLOW ROAD NORTH THROUGH PASTURE, - WEST INTO

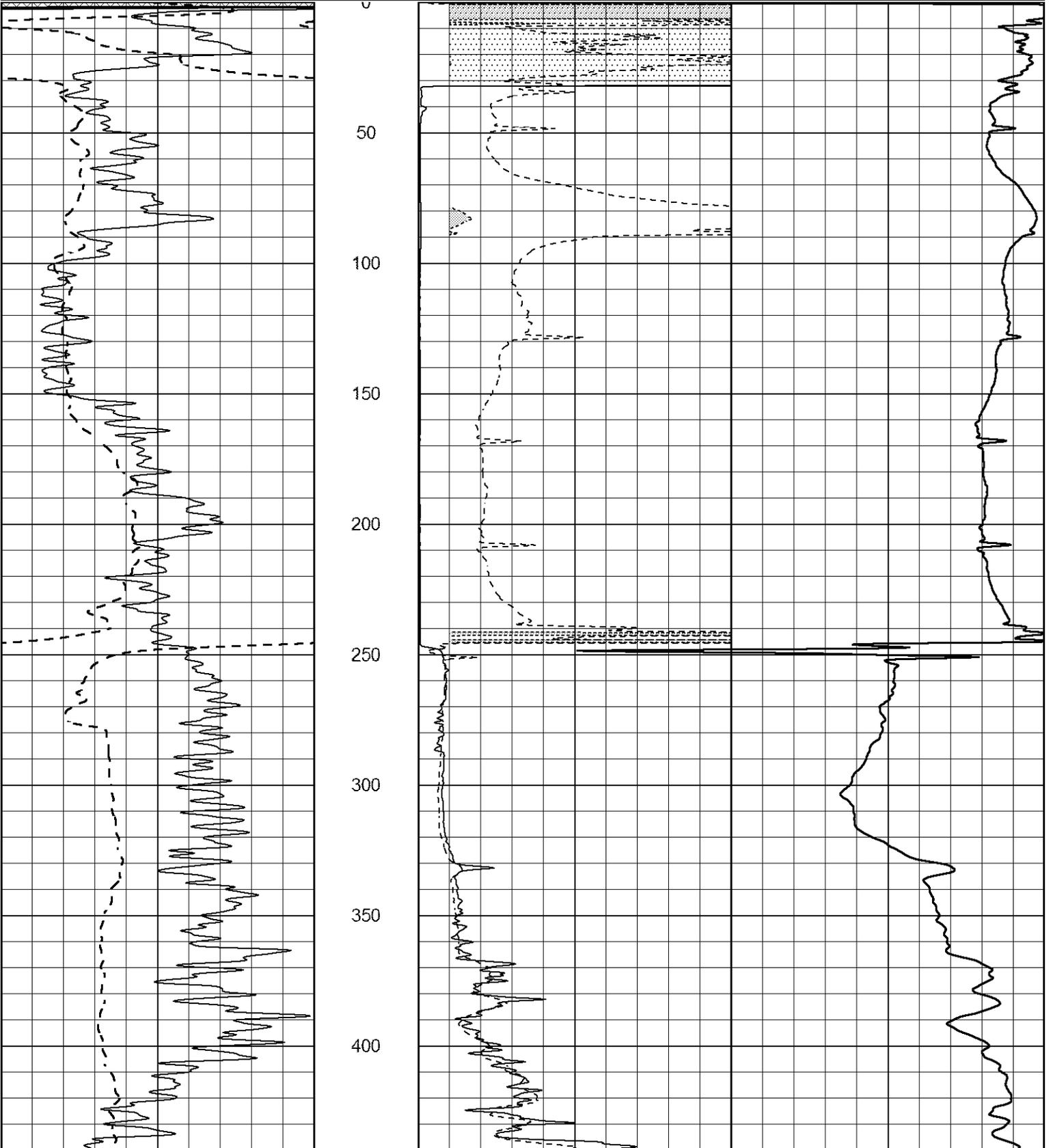


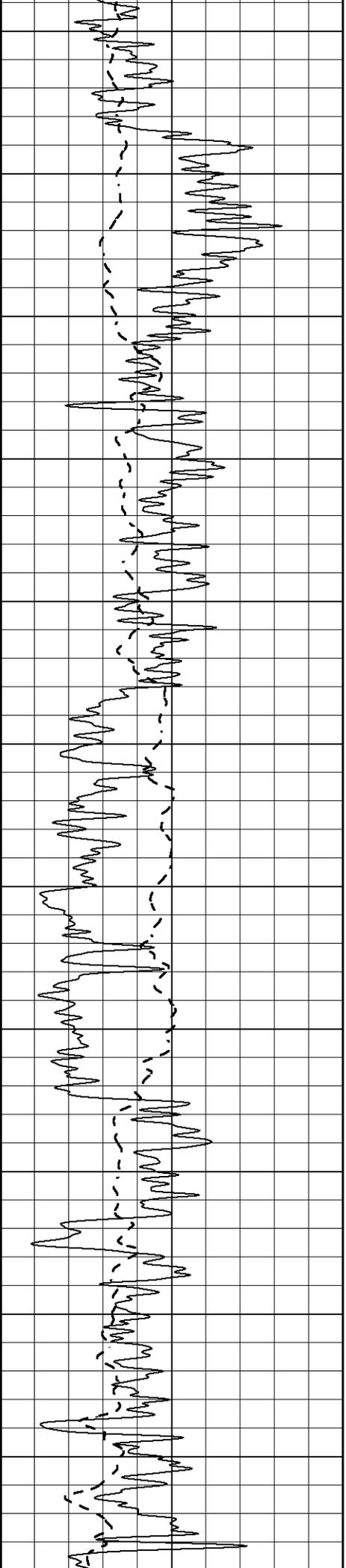
MAIN SECTION

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 Charted by Depth in Feet scaled 1:600

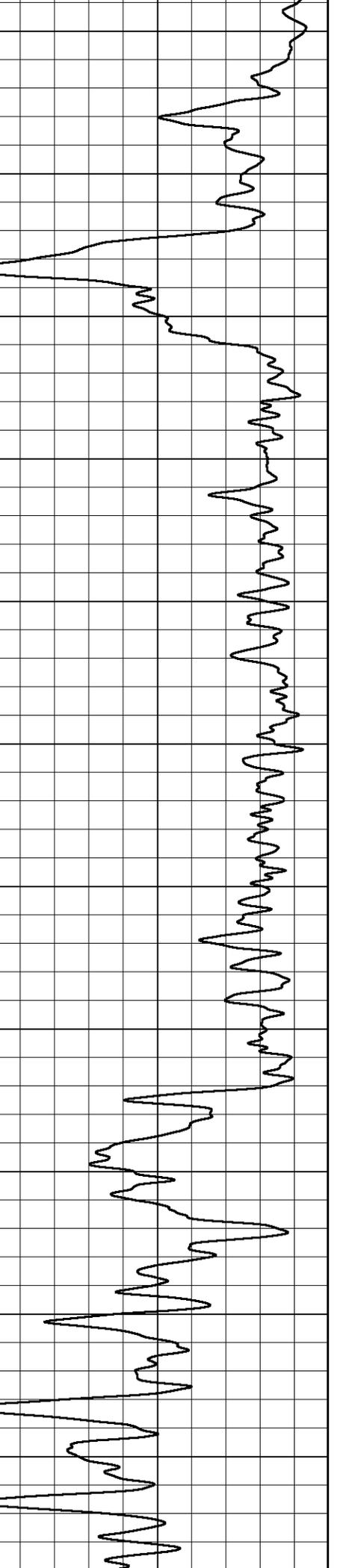
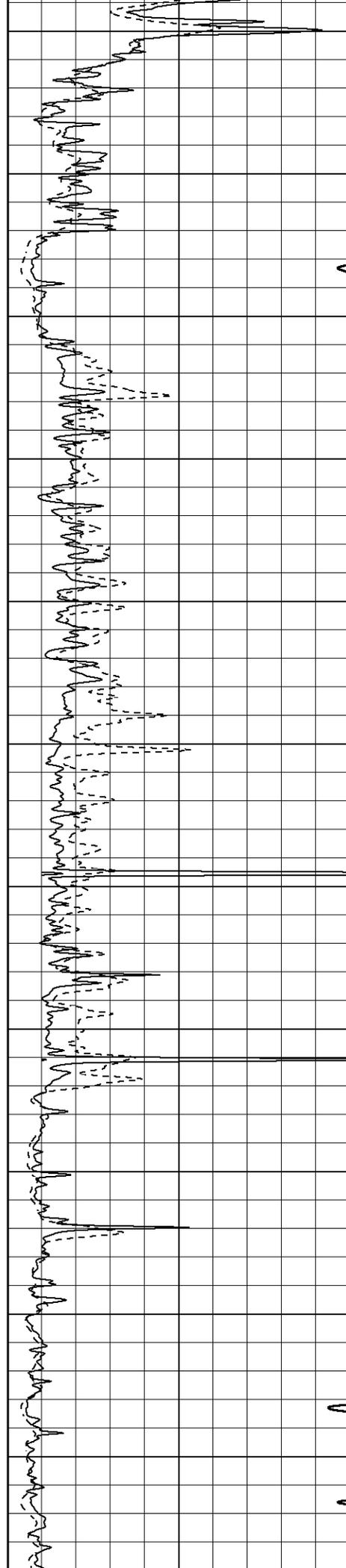
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 -100 SP (mV) 100

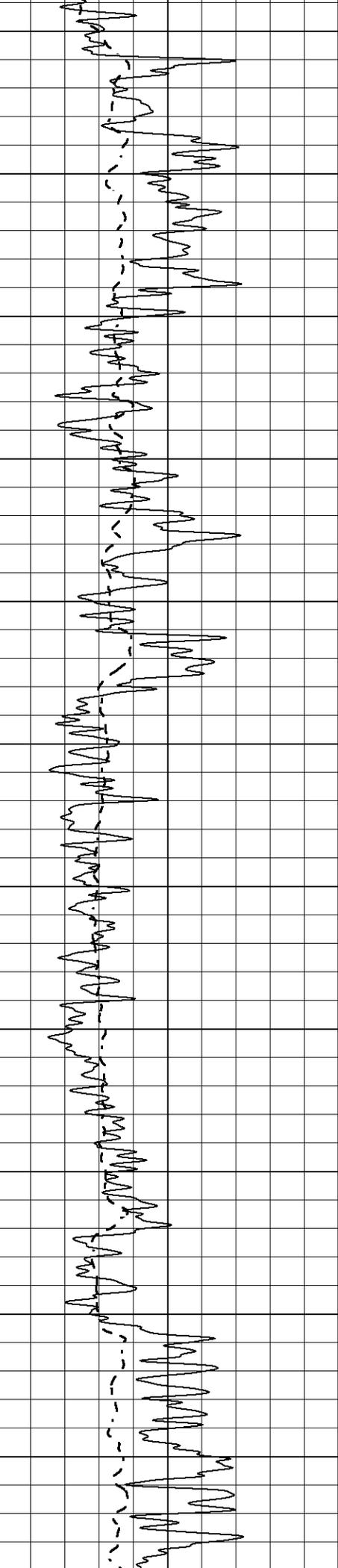
1000 CILD (mmho/m) 0
 0 RLL3 (Ohm-m) 50
 0 Deep Induction (Ohm-m) 50
 50 RILD X10 (Ohm-m) 500
 50 RLL3 X10 (Ohm-m) 500



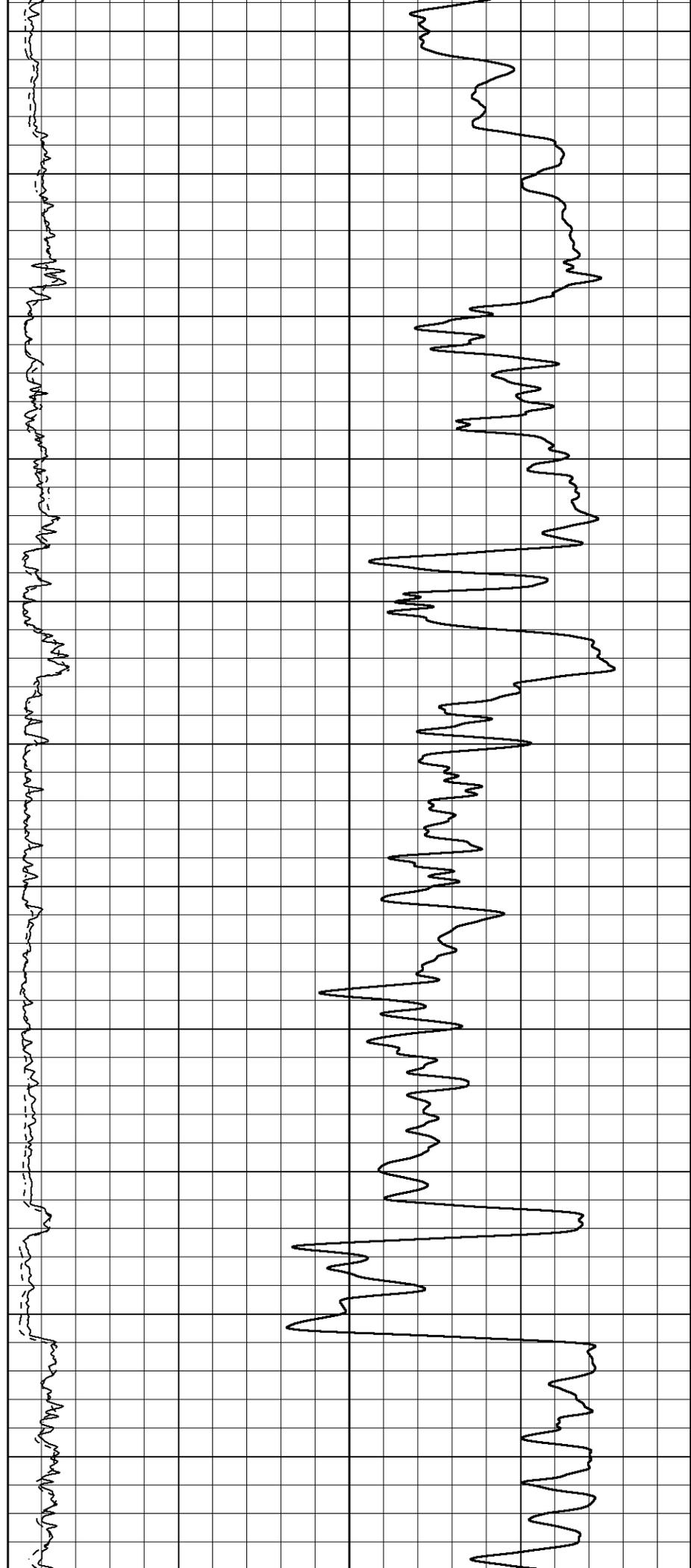


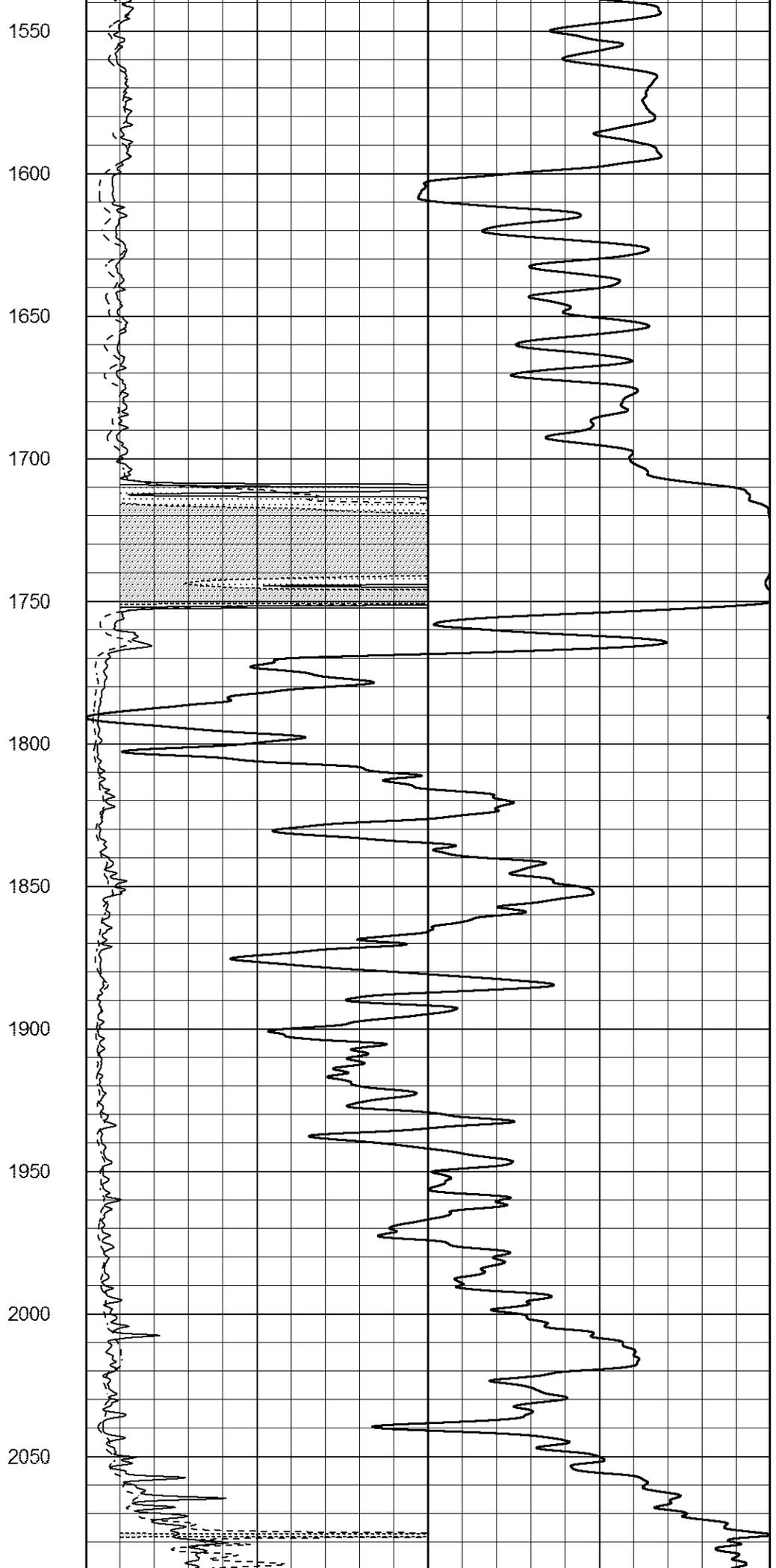
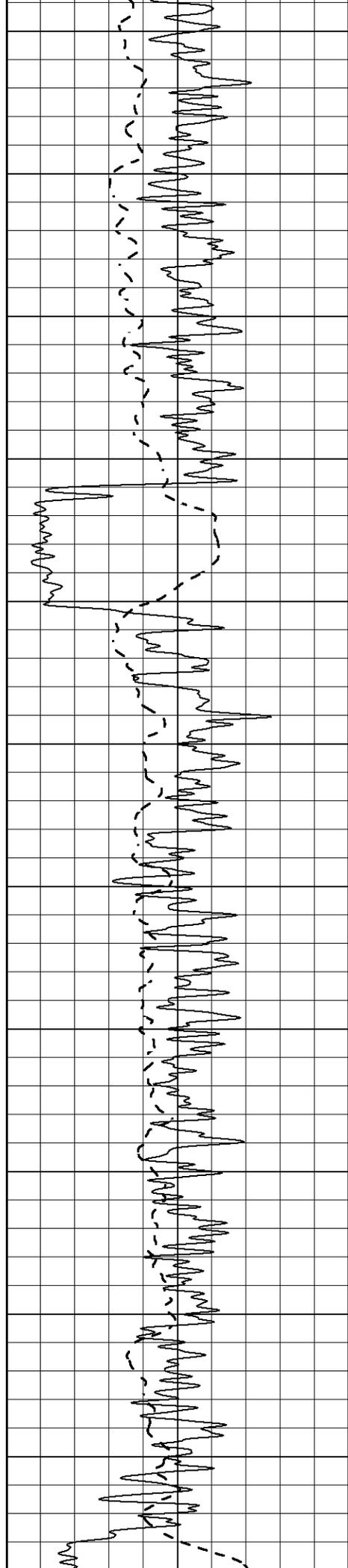
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500
550
600
650
700
750
800
850
900
950

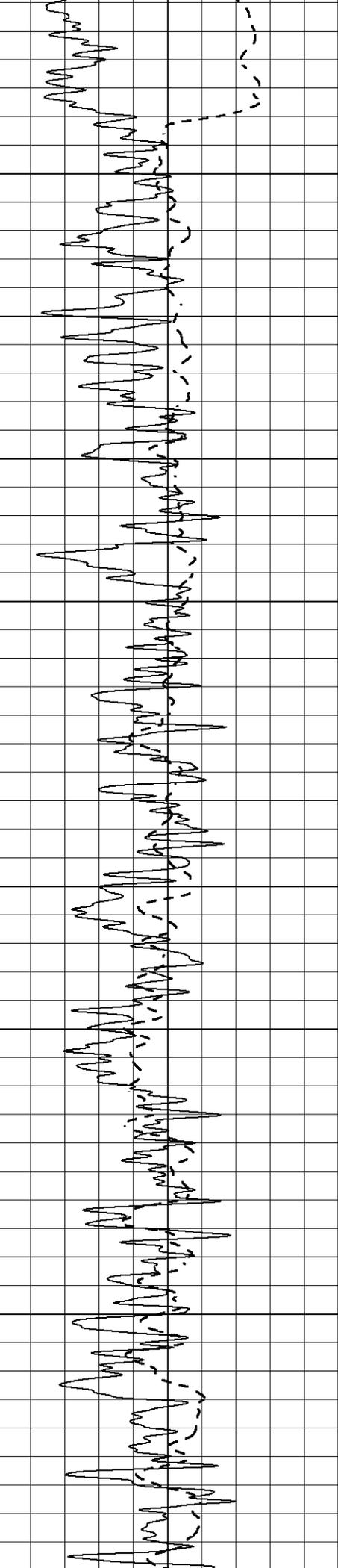




1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500







2100

2150

2200

2250

2300

2350

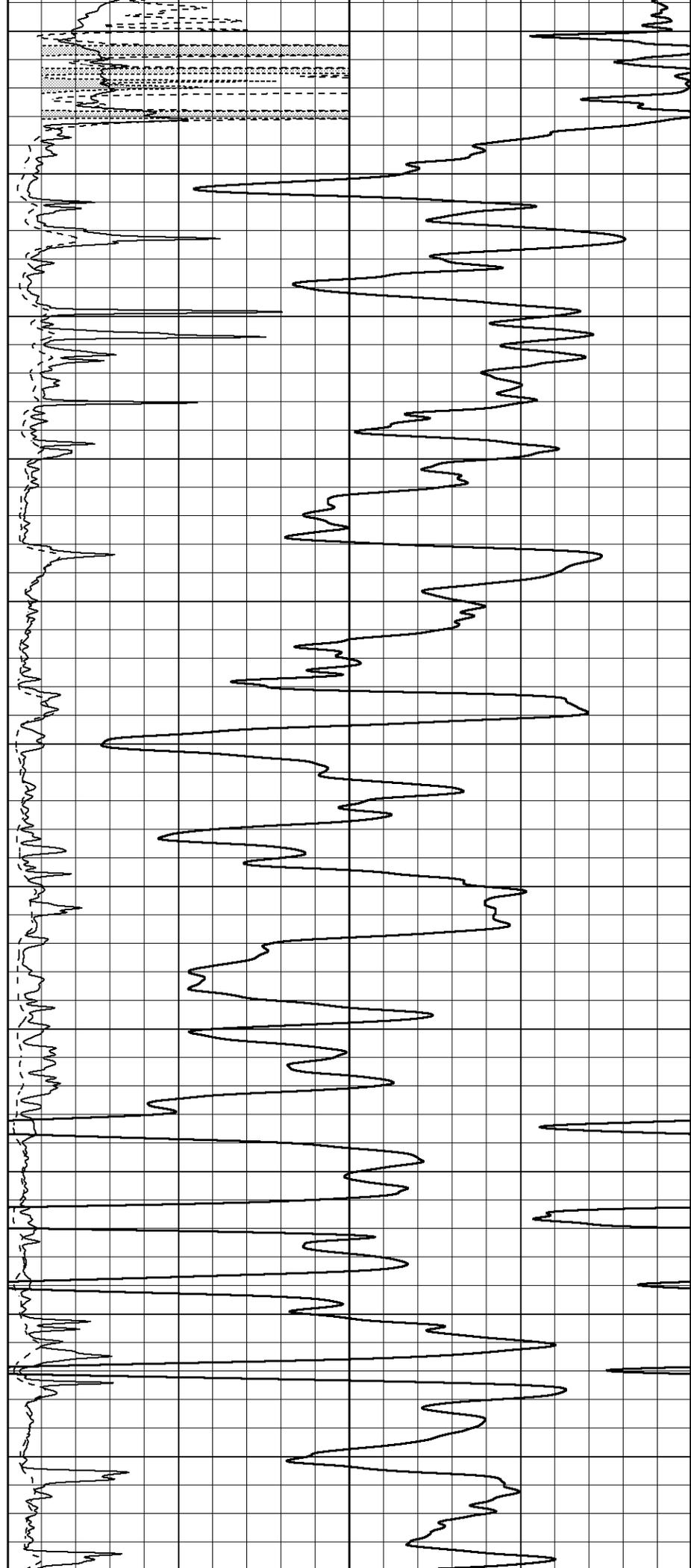
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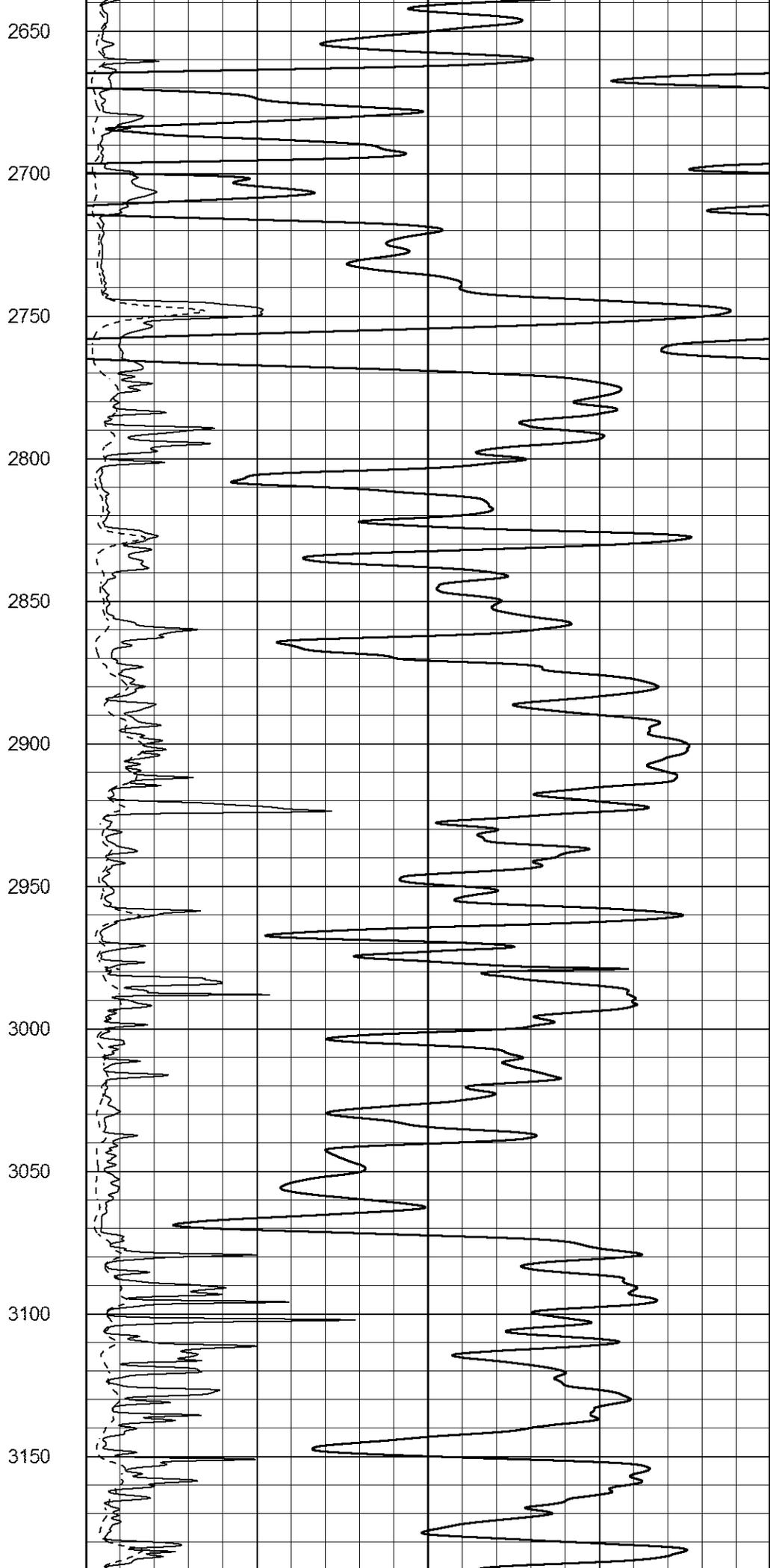
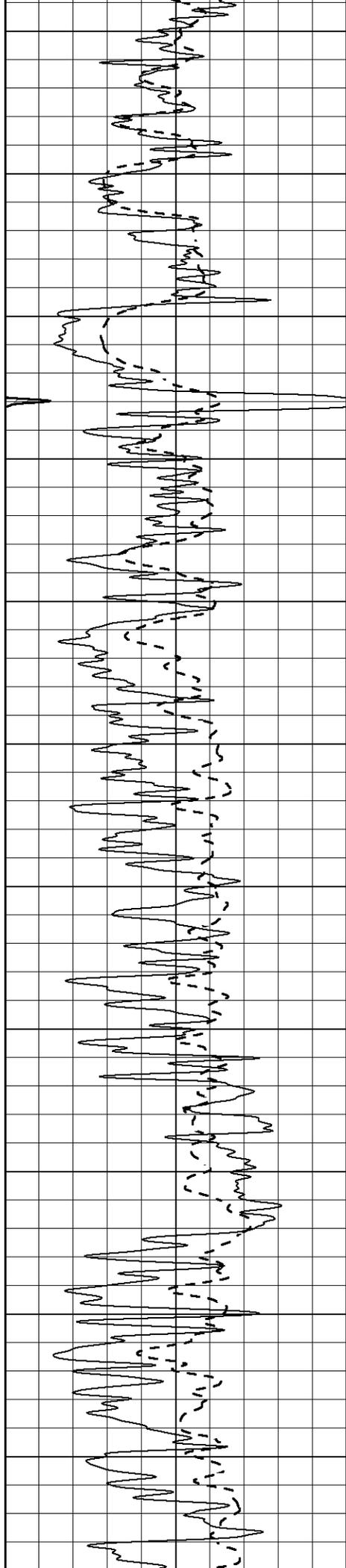
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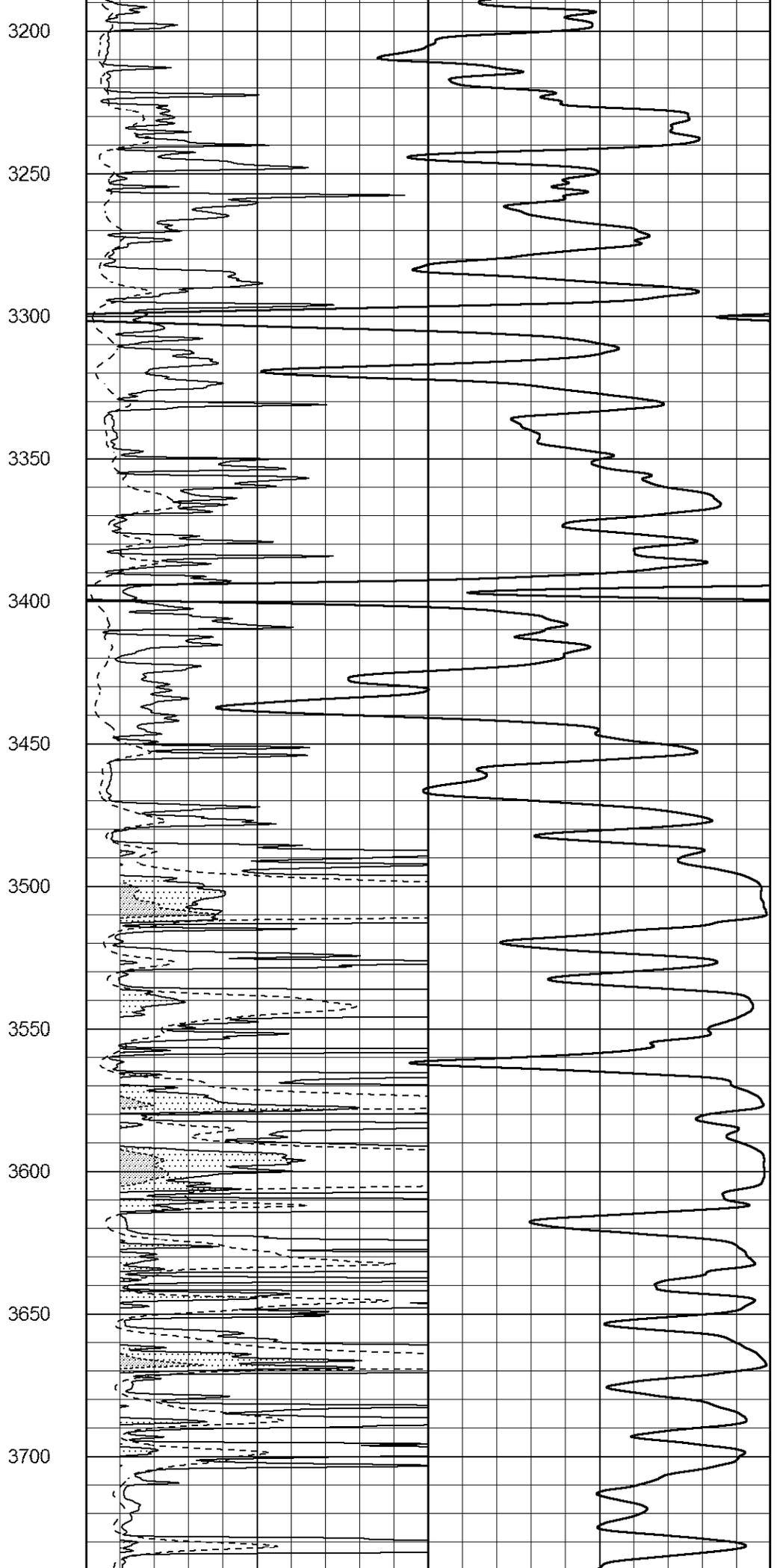
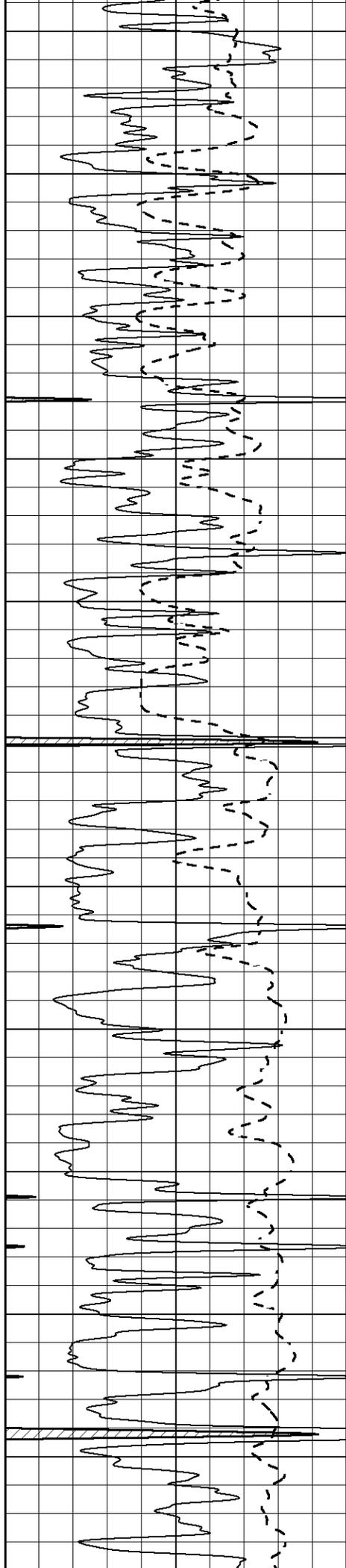
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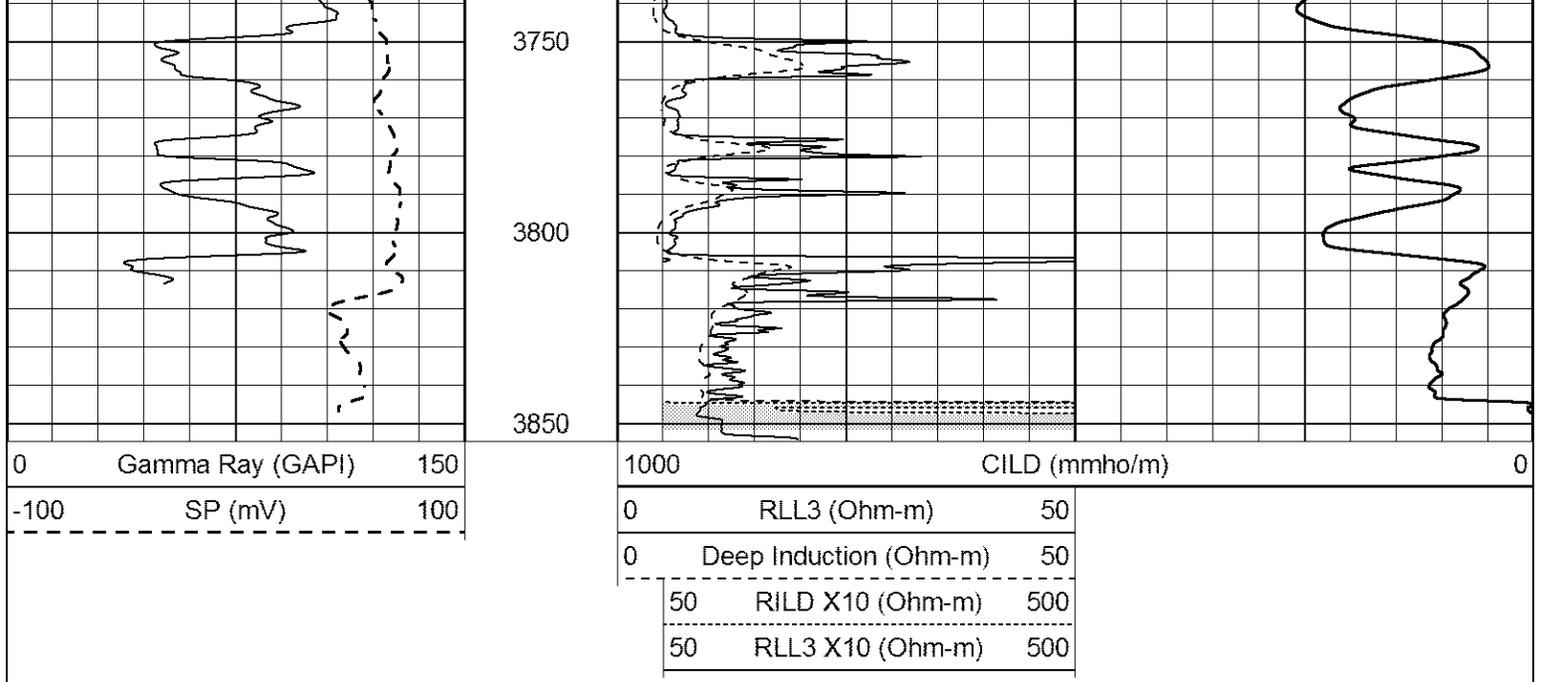
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2600





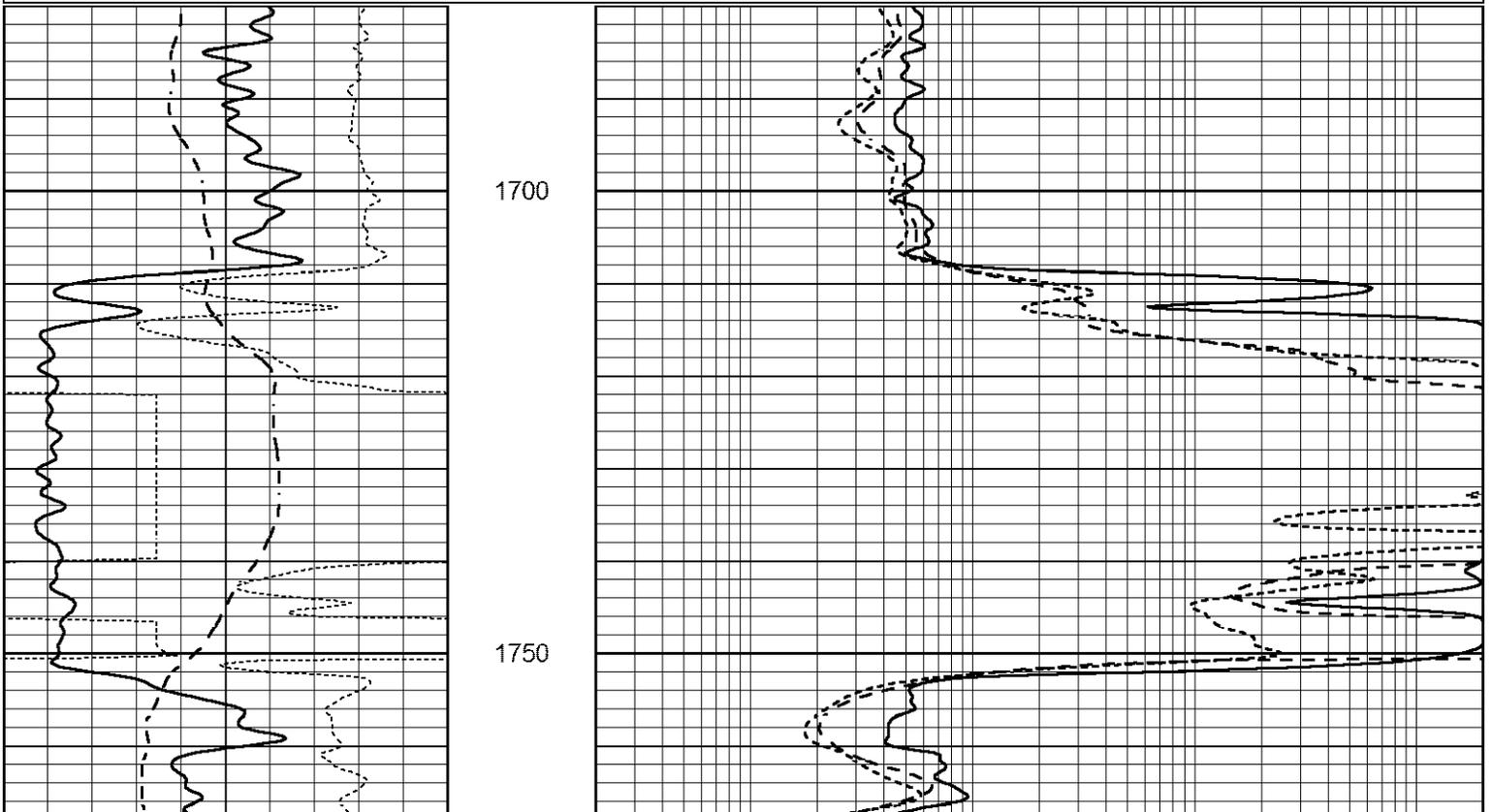


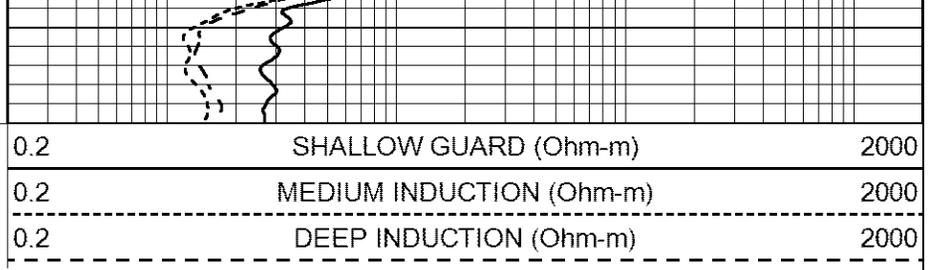
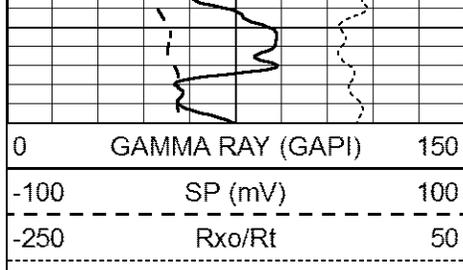


ANHYDRITE

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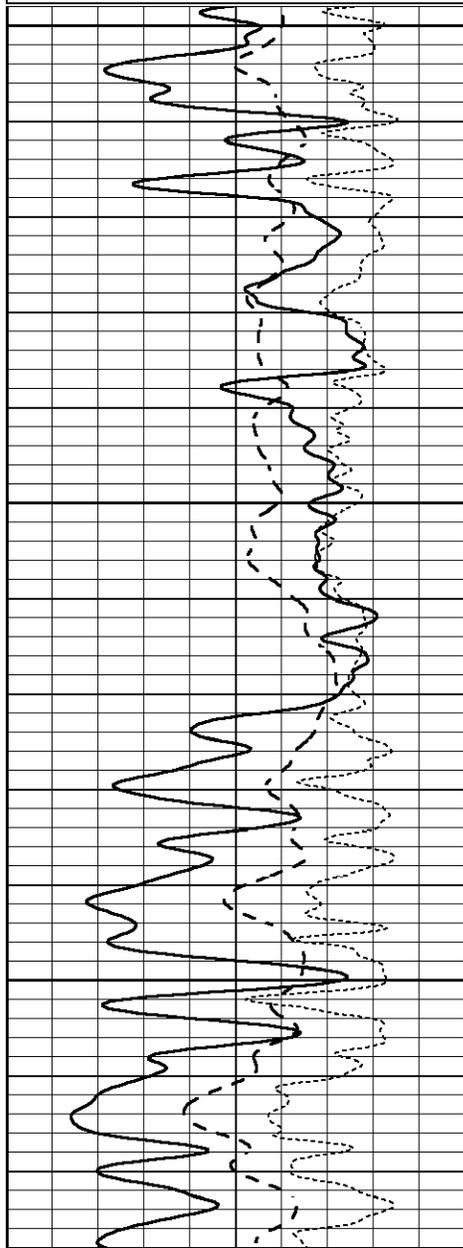
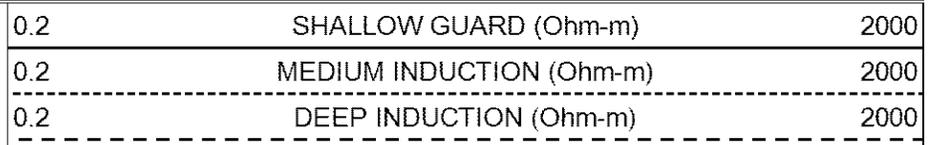
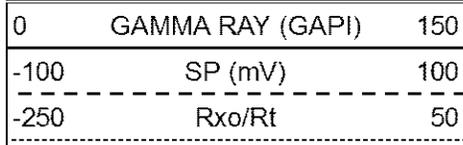
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





MAIN SECTION

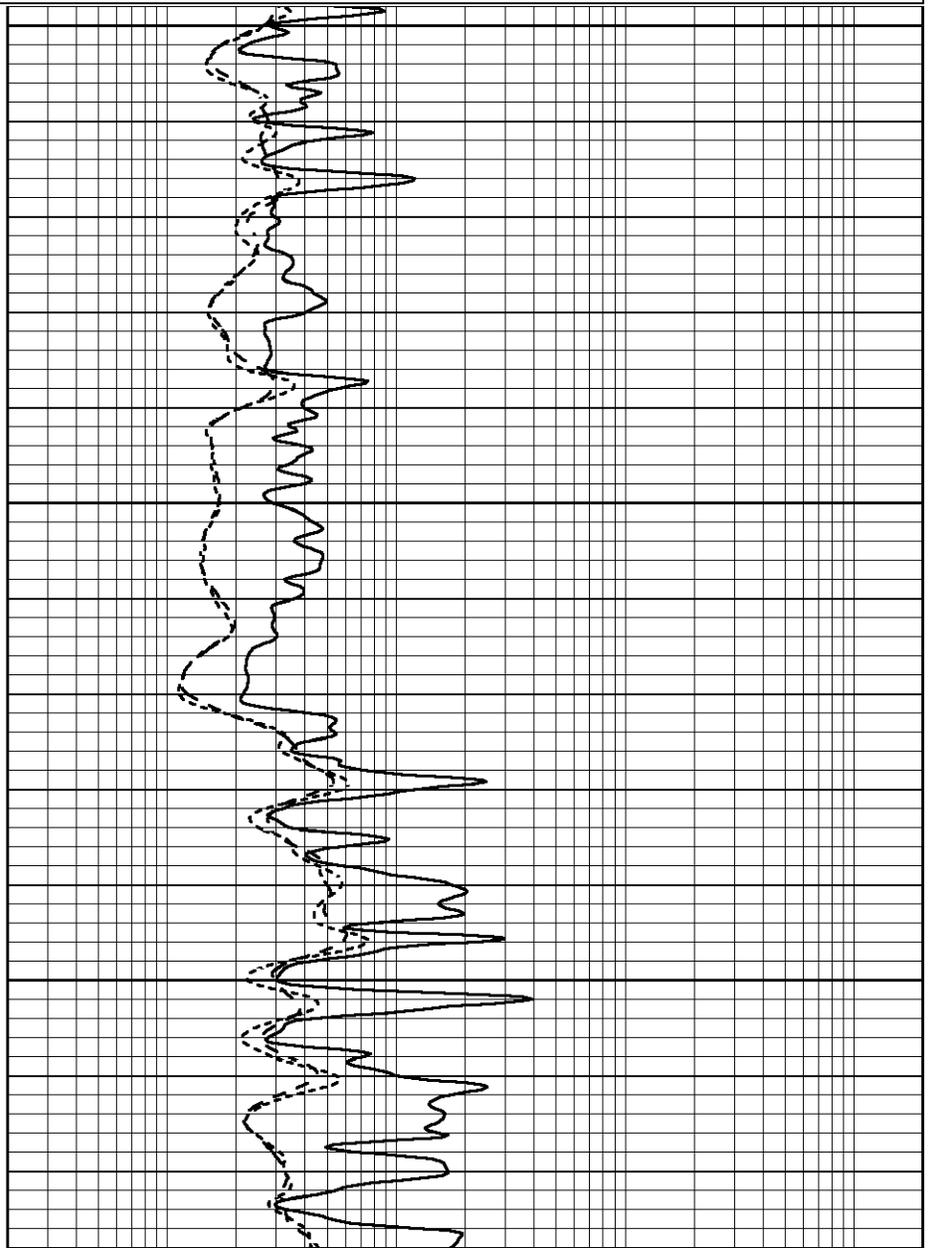
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 Presentation Format _dil
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 Charted by Depth in Feet scaled 1:240

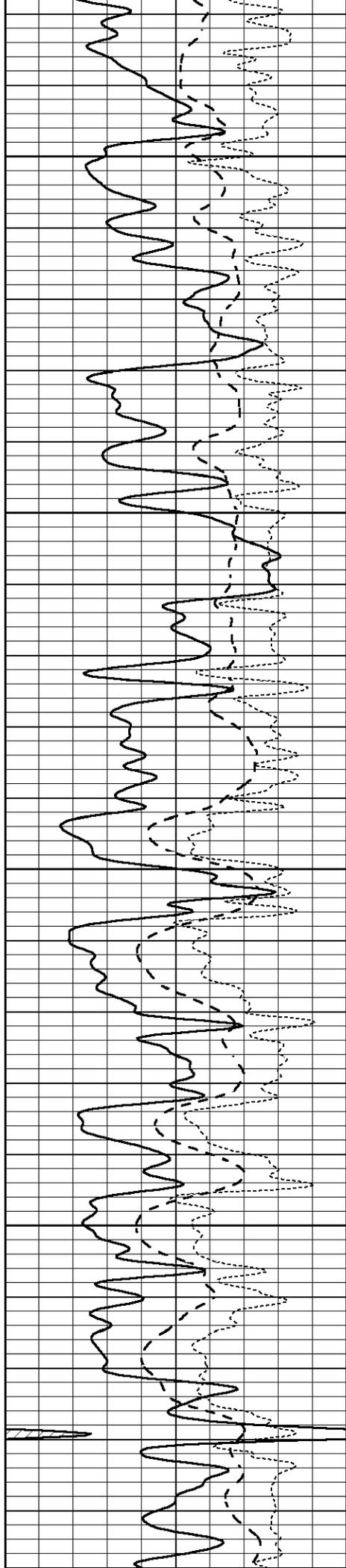


3000

3050

3100



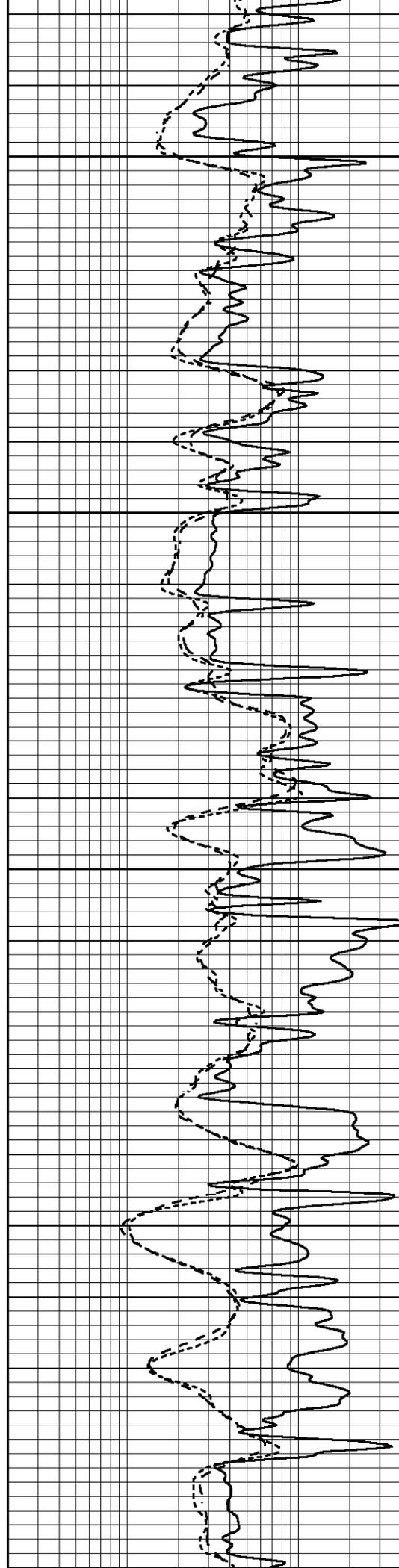


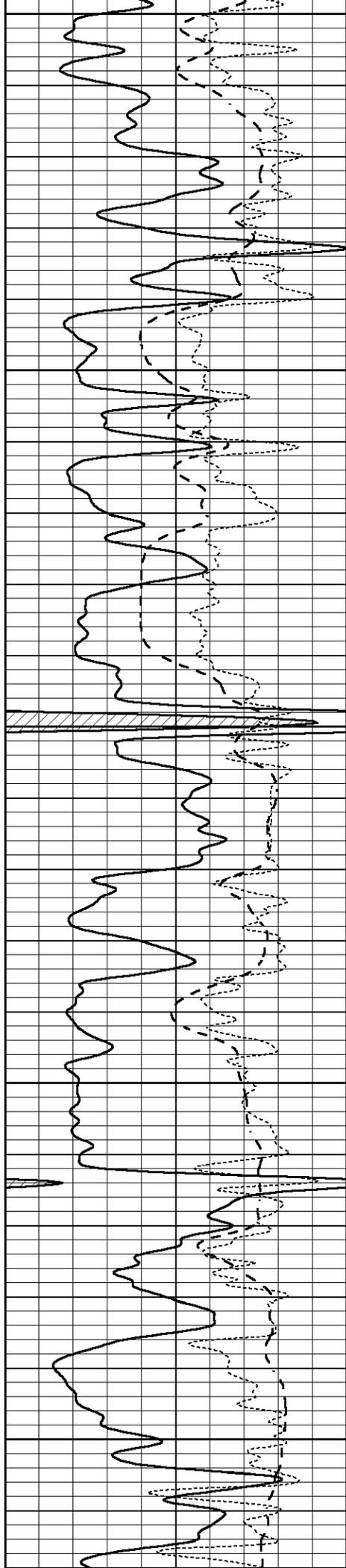
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3200

3250

3300





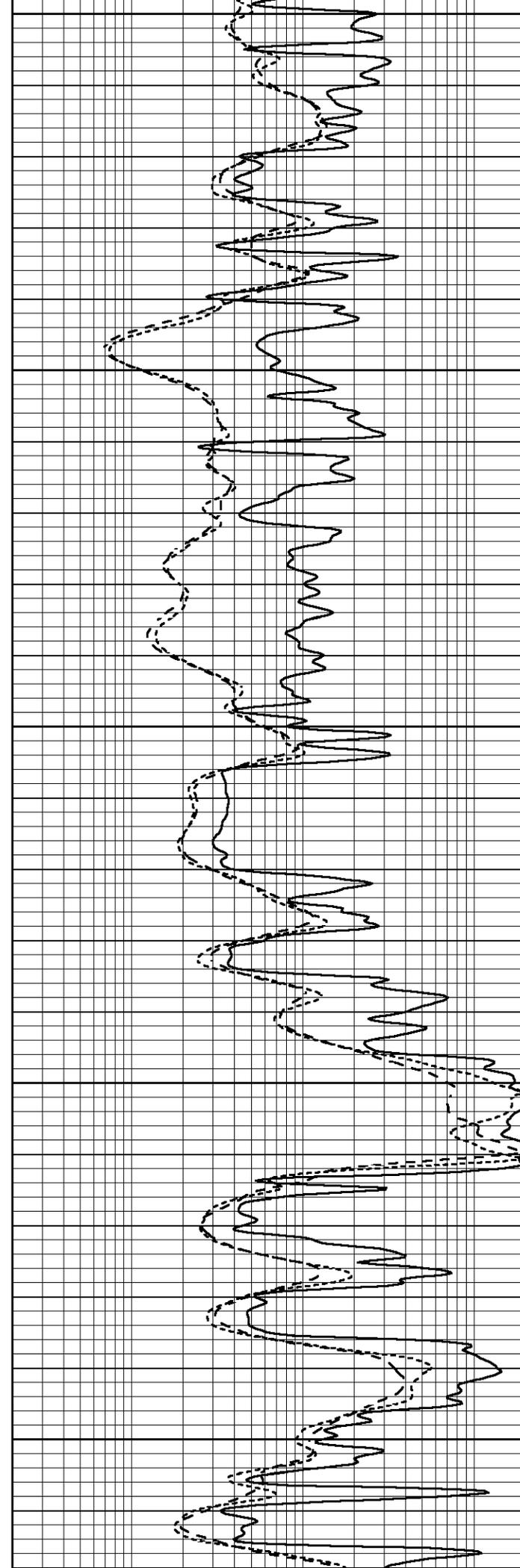
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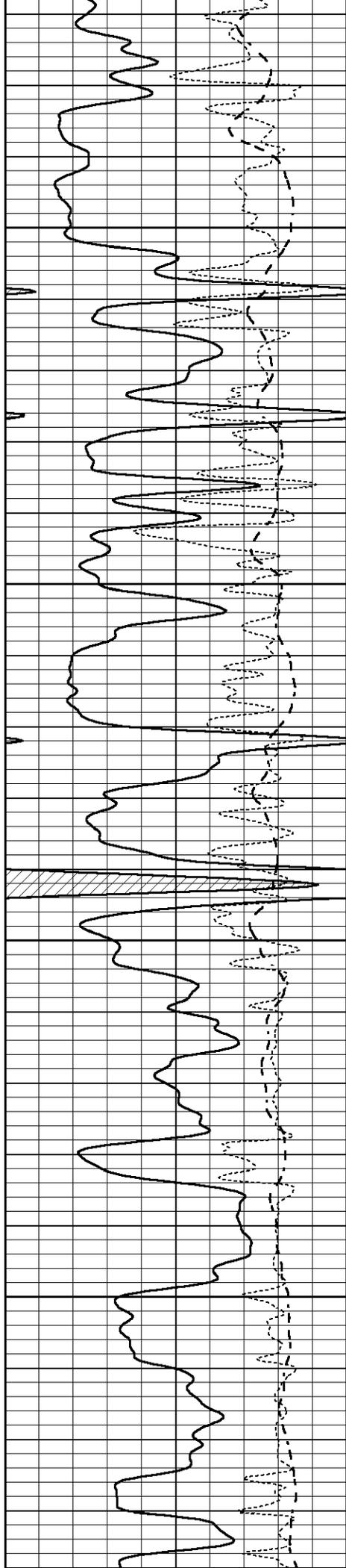
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3450

3500

3550



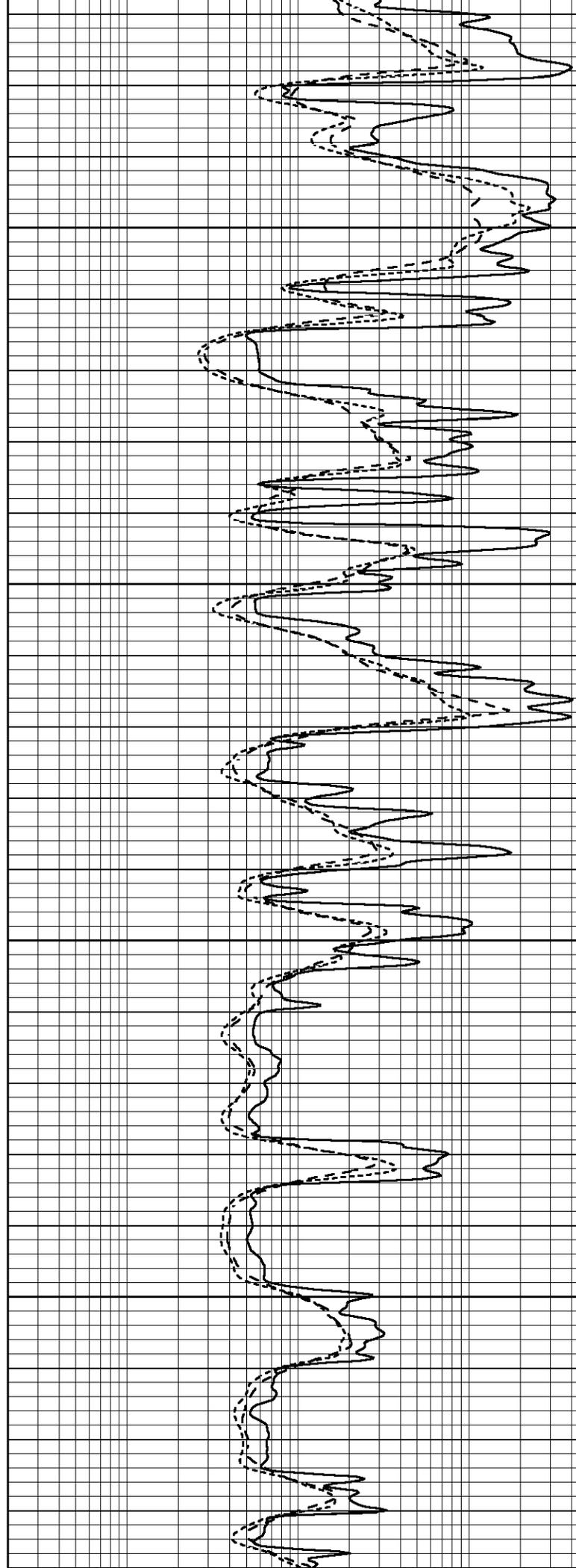


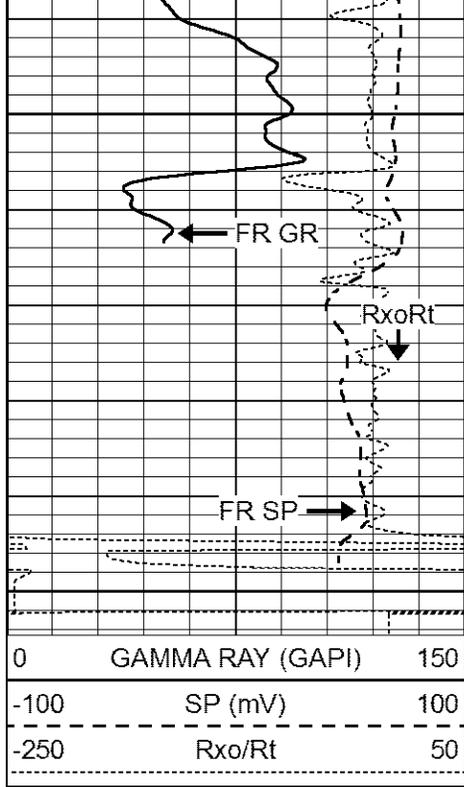
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3650

3700

3750

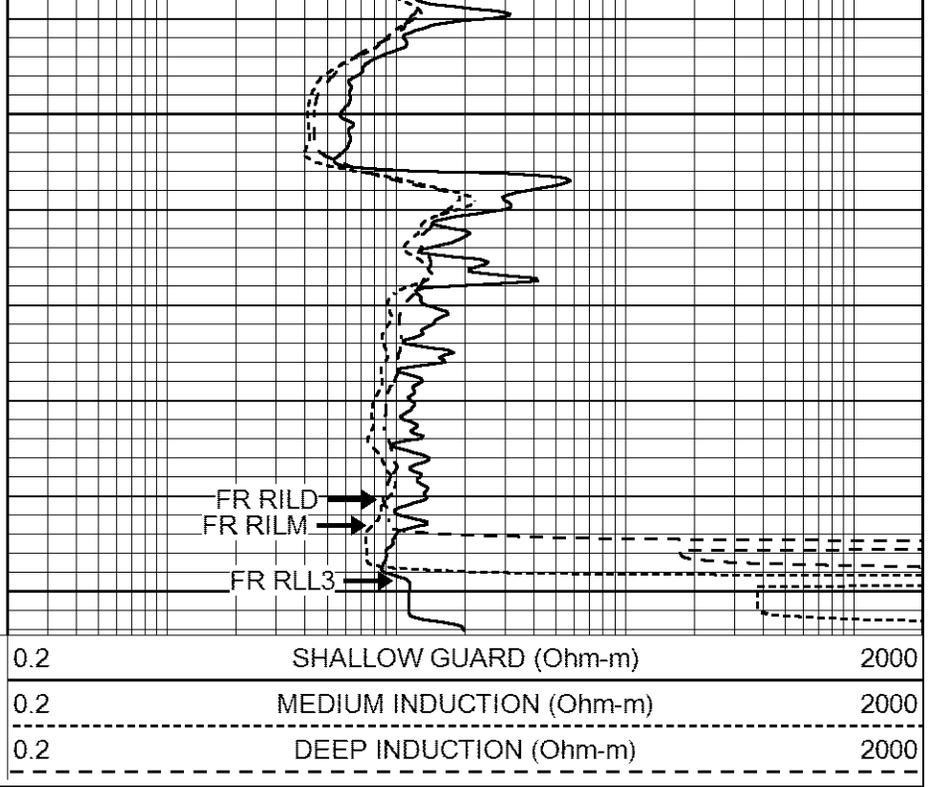




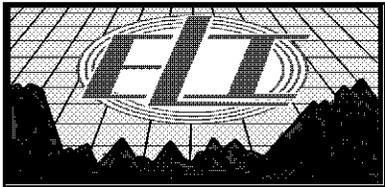
3800

LTD 3851

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

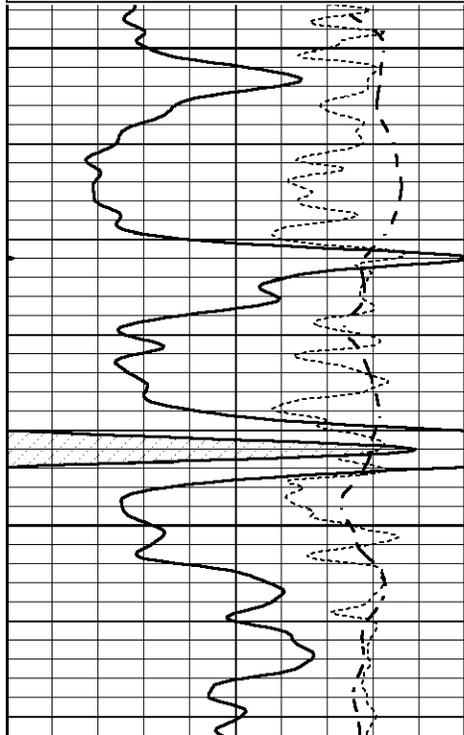


REPEAT SECTION

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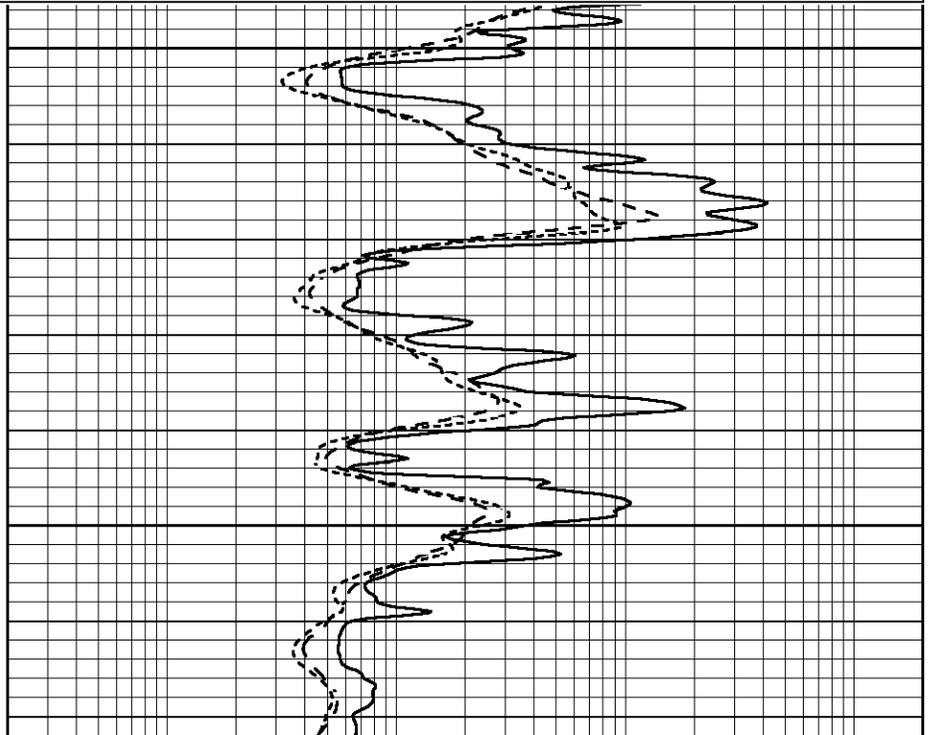
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

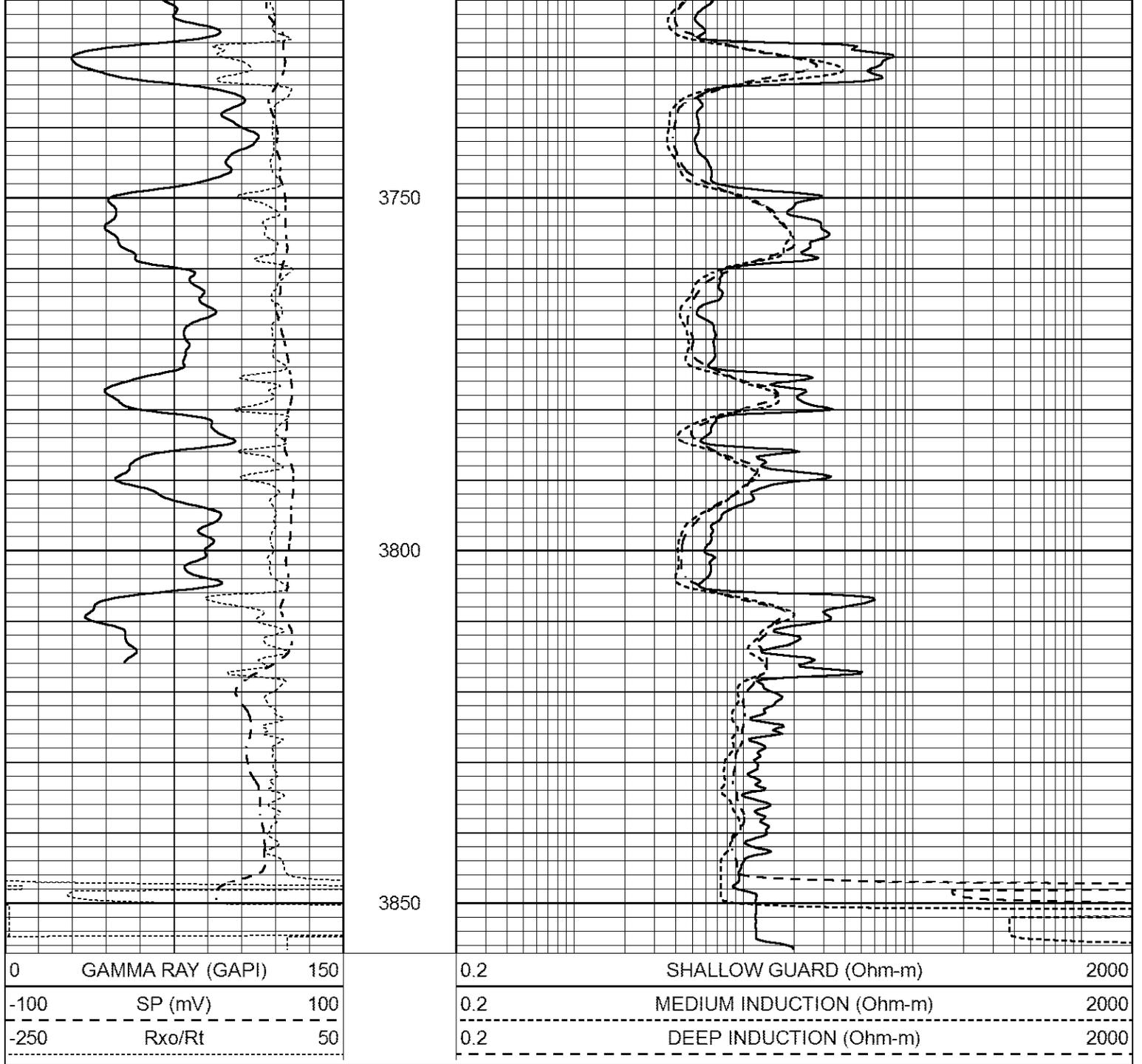
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



3650

3700





Calibration Report

Database File 6386pe.db
 Dataset Pathname pass3.3
 Dataset Creation Sun Apr 10 23:51:25 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Sat Jan 29 11:57:42 2022
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	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
LL3		7.503	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		

Litho Density Calibration Report
Serial: 140704
Model: V4_10P
Source Number: 74GBq-19

Master Calibration				Performed: Fri Feb 18 15:41:27 2022			
	Background	Aluminum		Magnesium			
Window 1	515.75	5443.58		23734.91	cps		
Window 2	41.45	1226.32		5757.32	cps		
Window 4	224.78	1223.03		5315.97	cps		
Window 5	549.25	7983.61		15349.73	cps		
Window 6	43.12	1271.88		2496.98	cps		
Window 8	261.02	2595.65		4928.92	cps		
Bulk Density	-	2.6020		1.6830	g/cc		
Pe	-	3.0000		2.5070	b/e		
LS Alpha:	: -1.8571	SS Alpha:	: -0.7875	LS CPE:		: 1.1396	
LS Beta:	: 128618.9672	SS Beta:	: 18780.4869	SS CPE:		: 1.5966	

Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969		
Window 1	0.00	cps			
Window 2	0.00	cps			
Window 4	0.00	cps			
Window 5	0.00	cps			
Window 6	0.00	cps			
Window 8	0.00	cps			

After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969		
Window 1	0.00	cps			
Window 2	0.00	cps			
Window 4	0.00	cps			

Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration

Performed: Fri Feb 18 15:41:27 2022

Results		Readings		References (in)		Gain	Offset
Low	High	Low	High				
8107.9	11082.1	8.0	14.0			0.0	-7.9

Before Survey Caliper Verification

Performed:

Reference	Reading
_____	_____
Caliper (in)	

After Survey Caliper Verification

Performed:

Reference	Reading
_____	_____
Caliper (in)	

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: Tue Jan 19 17:50:08 2021

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5300 GAPI/cps