

DUAL INDUCTION LOG

Company	RAYMOND OIL COMPANY, INC.	Company	RAYMOND OIL COMPANY, INC.
Well	KOEHLER-EGGERS UNIT #1	Well	KOEHLER-EGGERS UNIT #1
Field	UNNAMED	Field	UNNAMED
County	CHEYENNE	County	CHEYENNE
State	KANSAS	State	KANSAS
Location:	API # : 15-023-21634-0000 335' FNL & 2360' FWL SE - NE - NE - NW	Other Services	CDL/CNL MEL
Permanent Datum	GROUND LEVEL Elevation 3401	Elevation	K.B. 3406 D.F. 3404 G.L. 3401
Log Measured From	KELLY BUSHING 5' A.G.L		
Drilling Measured From	KELLY BUSHING		
Date	9/3/23		
Run Number	ONE		
Depth Driller	5043		
Depth Logger	5044		
Bottom Logged Interval	5042		
Top Log Interval	00		
Casing Driller	8 5/8" @ 387		
Casing Logger	387		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,500 PPM	
Density / Viscosity	9.2/54		
pH / Fluid Loss	8.5/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.70 @ 80F		
Rmt @ Meas. Temp	1.28 @ 80F		
Rmc @ Meas. Temp	2.04 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.08 @ 125F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:00 A.M.		
Maximum Recorded Temperature	125F		
Equipment Number	8916		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	KIM SHOEMAKER		

<<< Fold Here >>>

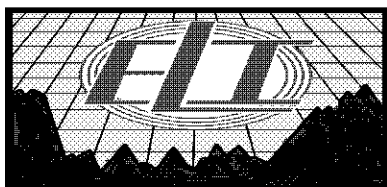
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

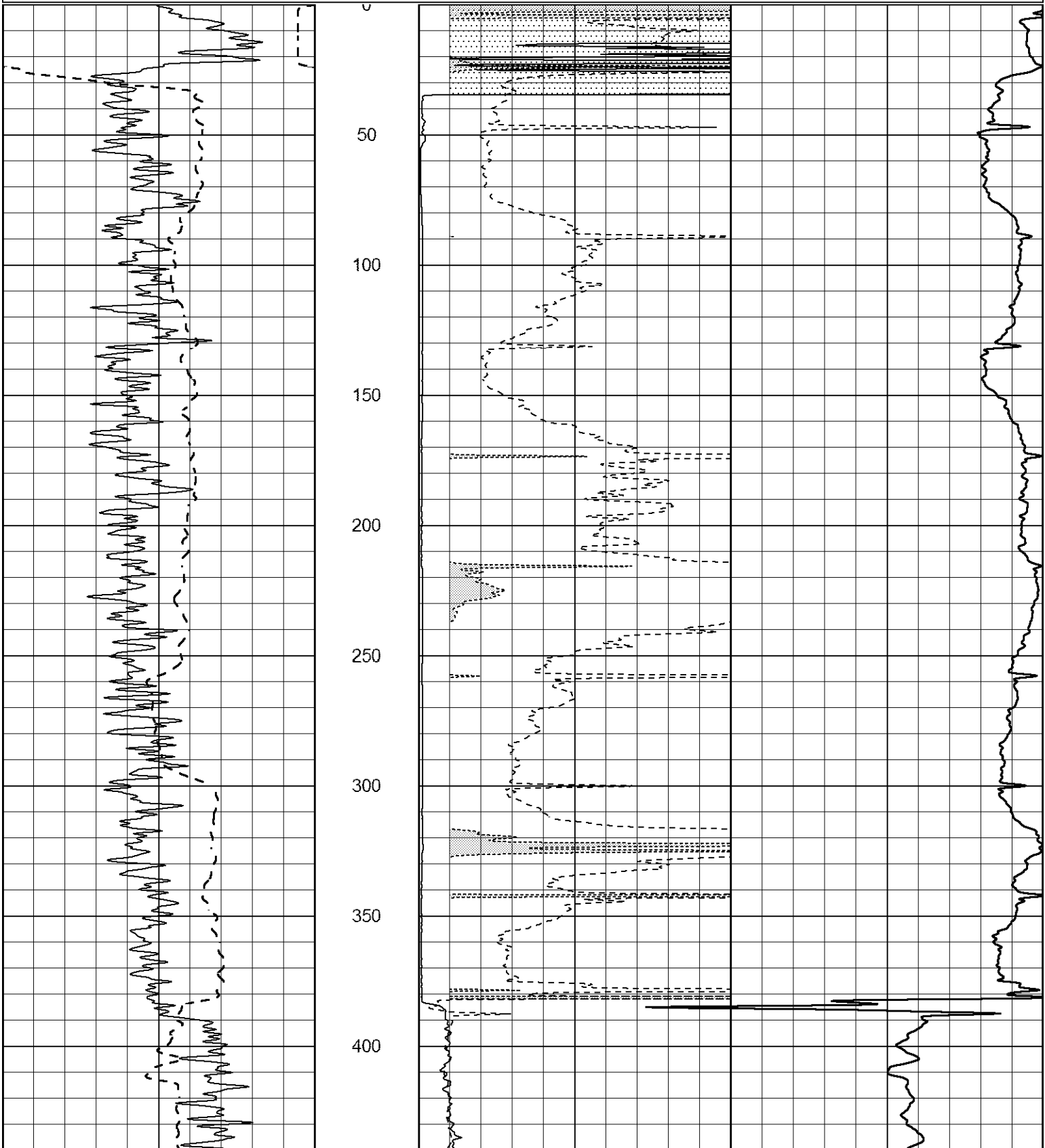
FROM I70/BREWSTER EXIT GO 23 MILES NORTH TO 'G' ROAD, 3 MILES WEST TO 34 ROAD,
1 MILE SOUTH, 1/2 MILE WEST, SOUTH INTO

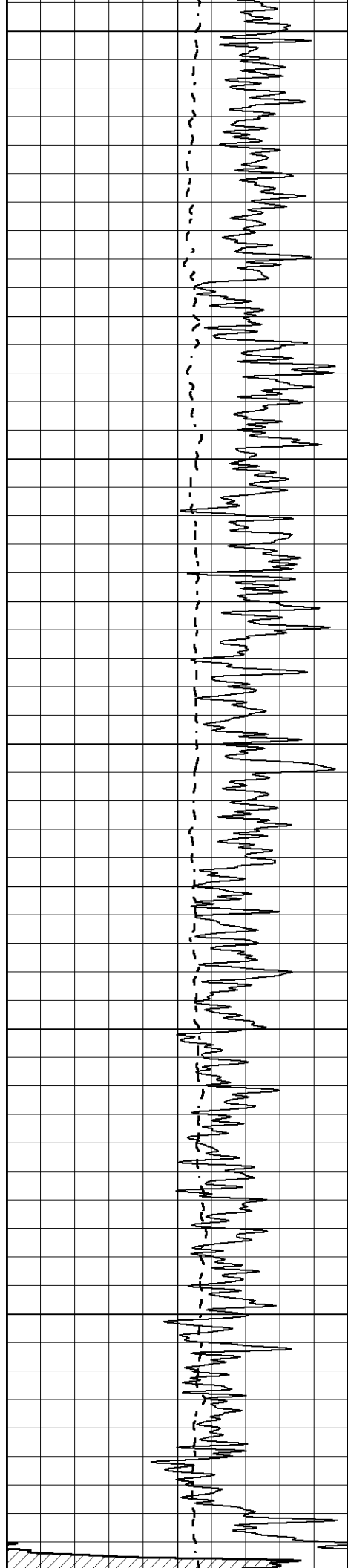


MAIN SECTION

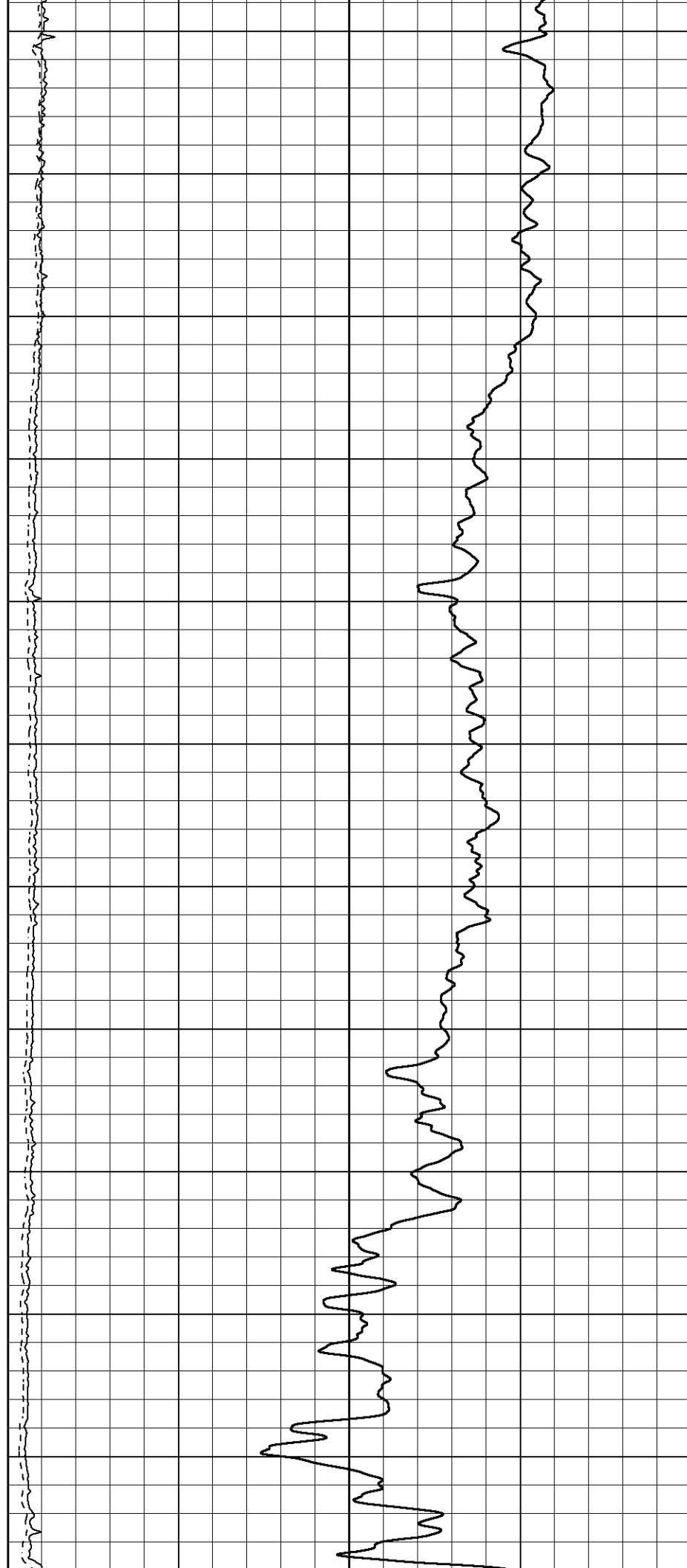
Database File	7718ddn.db
Dataset Pathname	pass4M
Presentation Format	_dil2
Dataset Creation	Sun Sep 03 08:39:32 2023
Charted by	Depth in Feet scaled 1:600

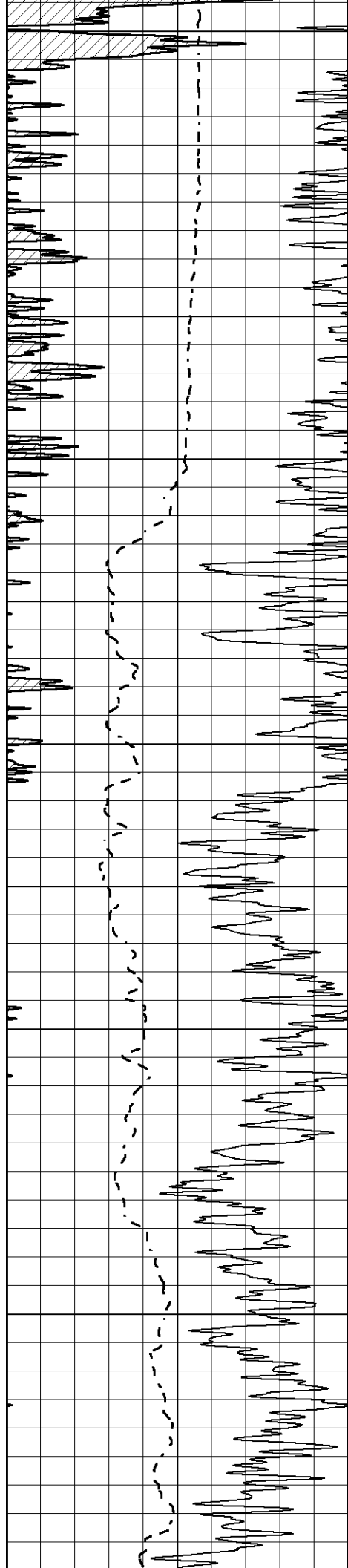
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500





450
500
550
600
650
700
750
800
850
900
950





1000

1050

1100

1150

1200

1250

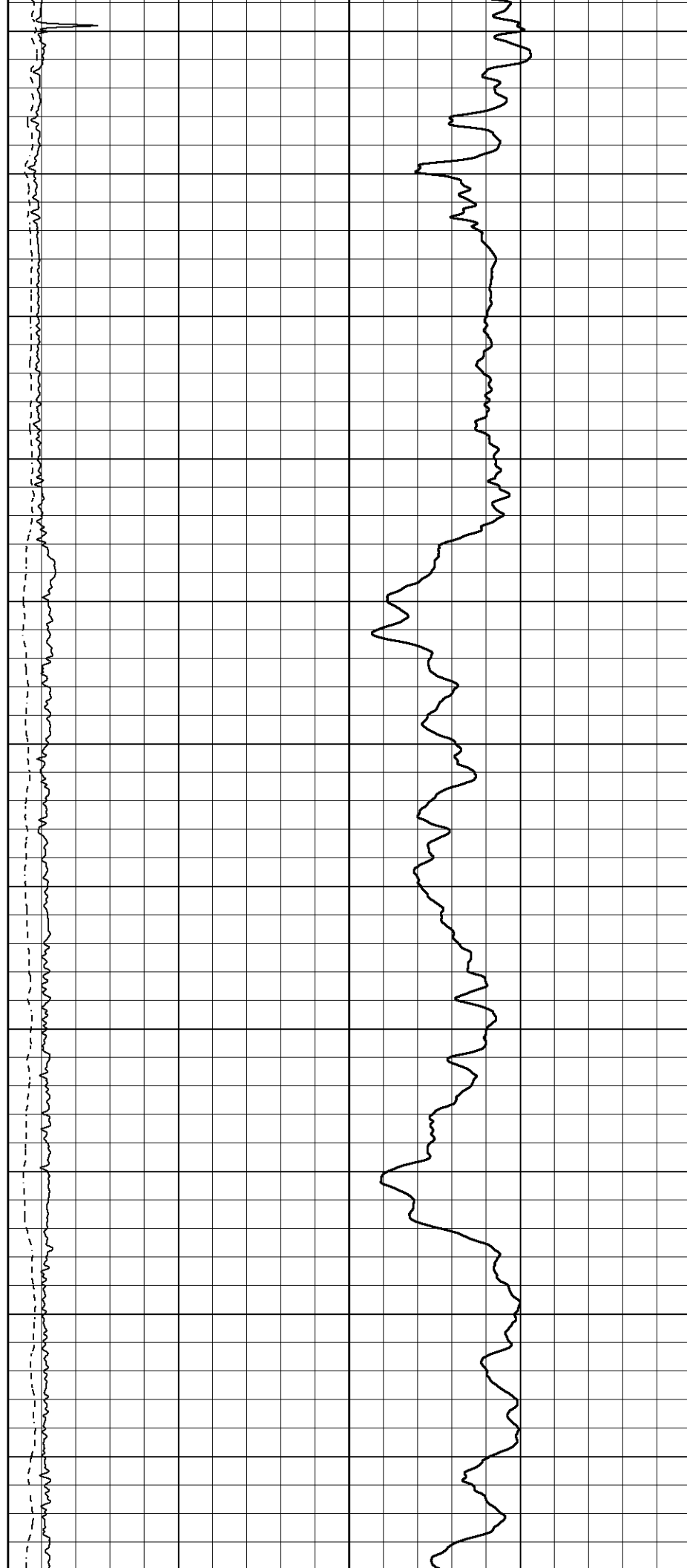
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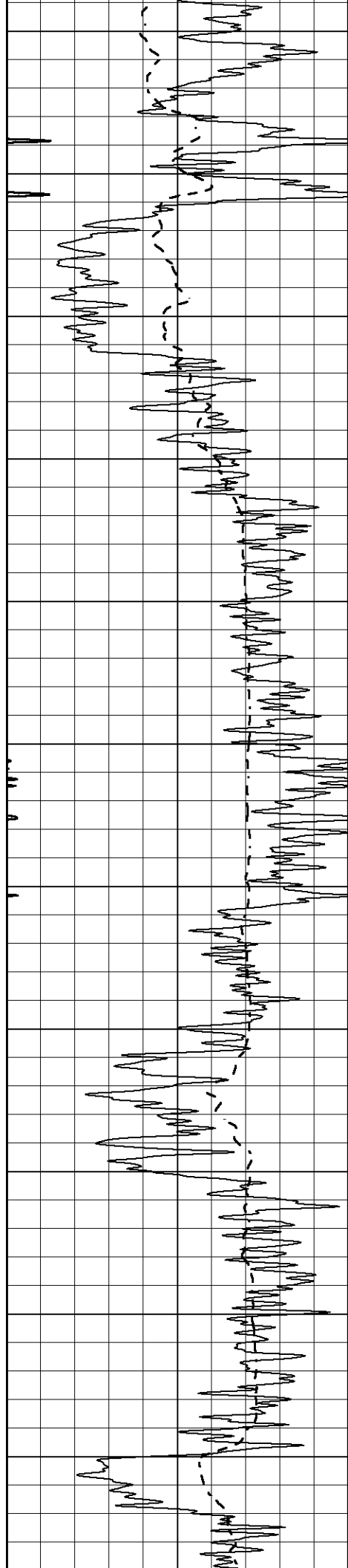
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1400

1450

1500





1550

1600

1650

1700

1750

1800

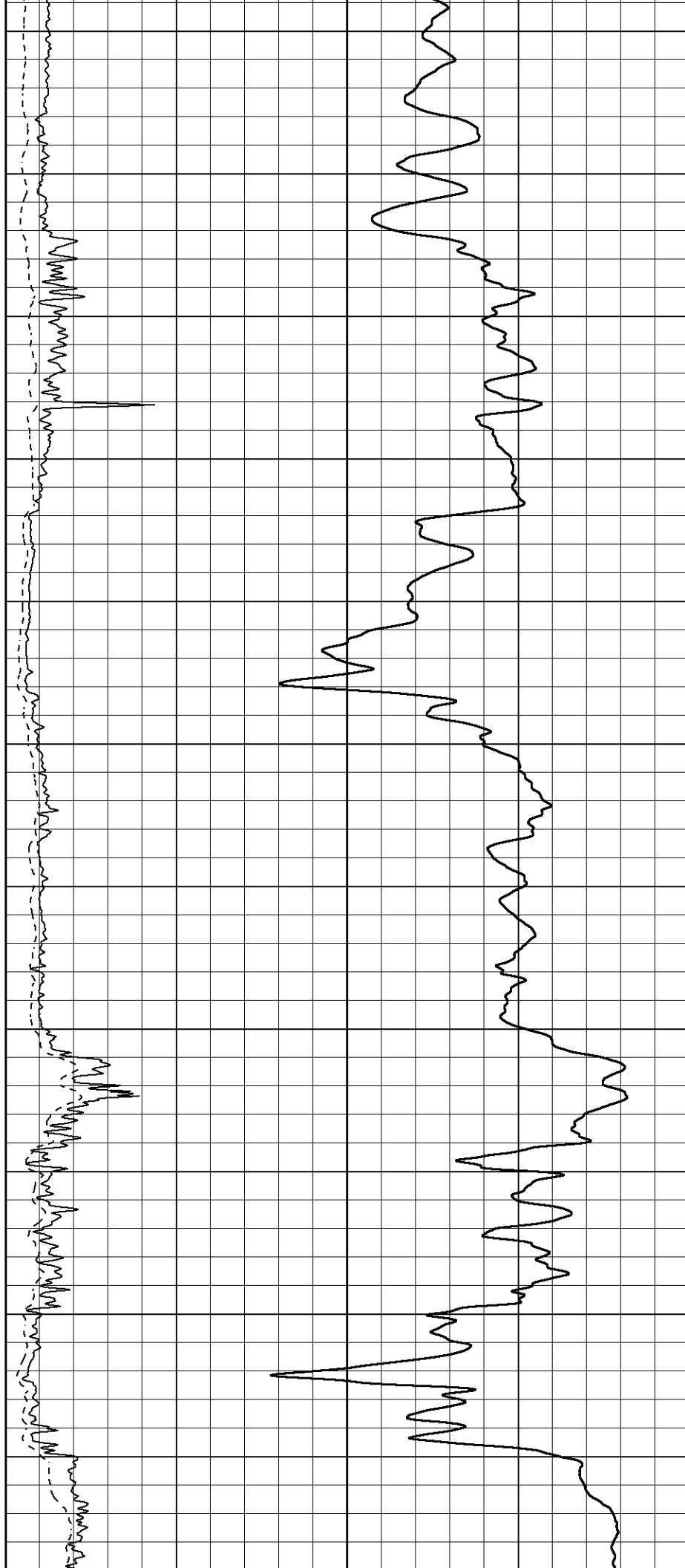
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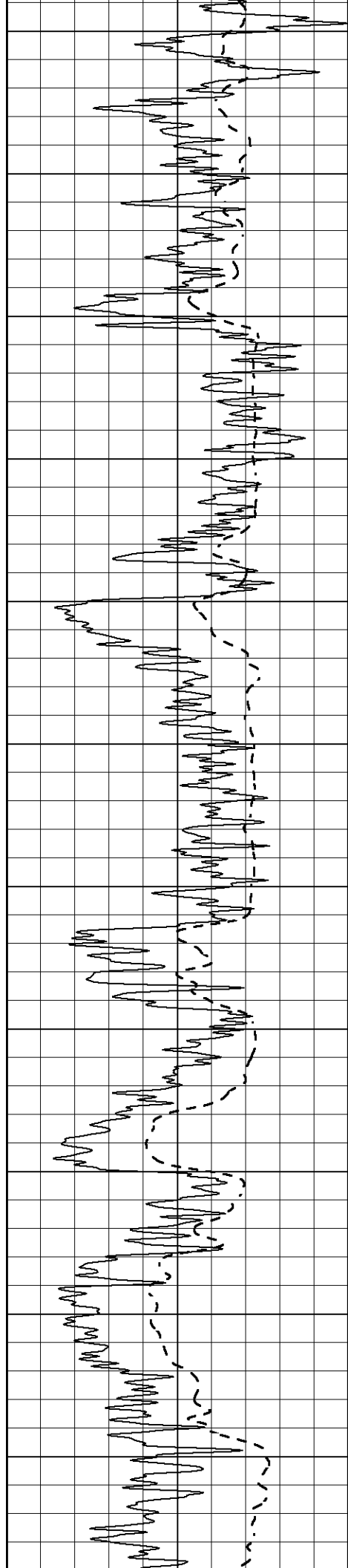
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1950

2000

2050





2100

2150

2200

2250

2300

2350

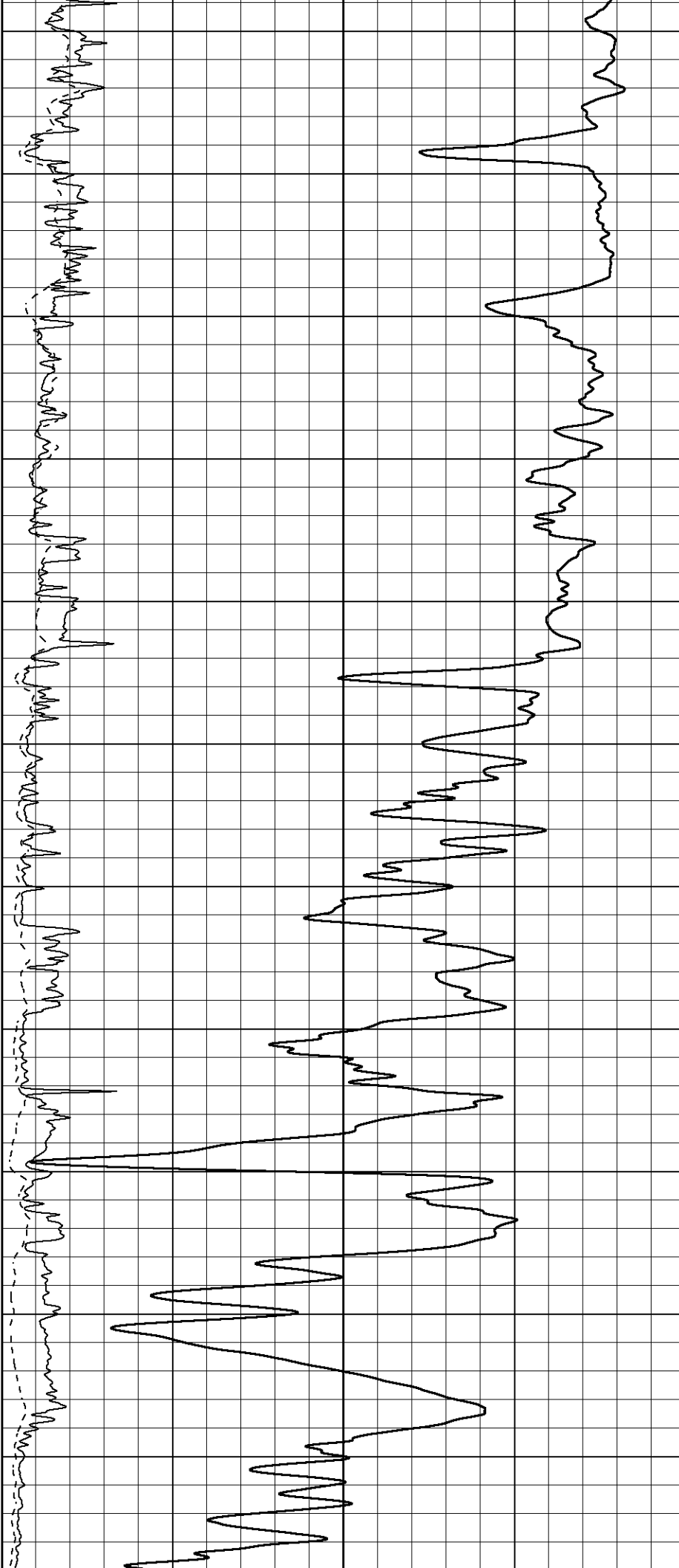
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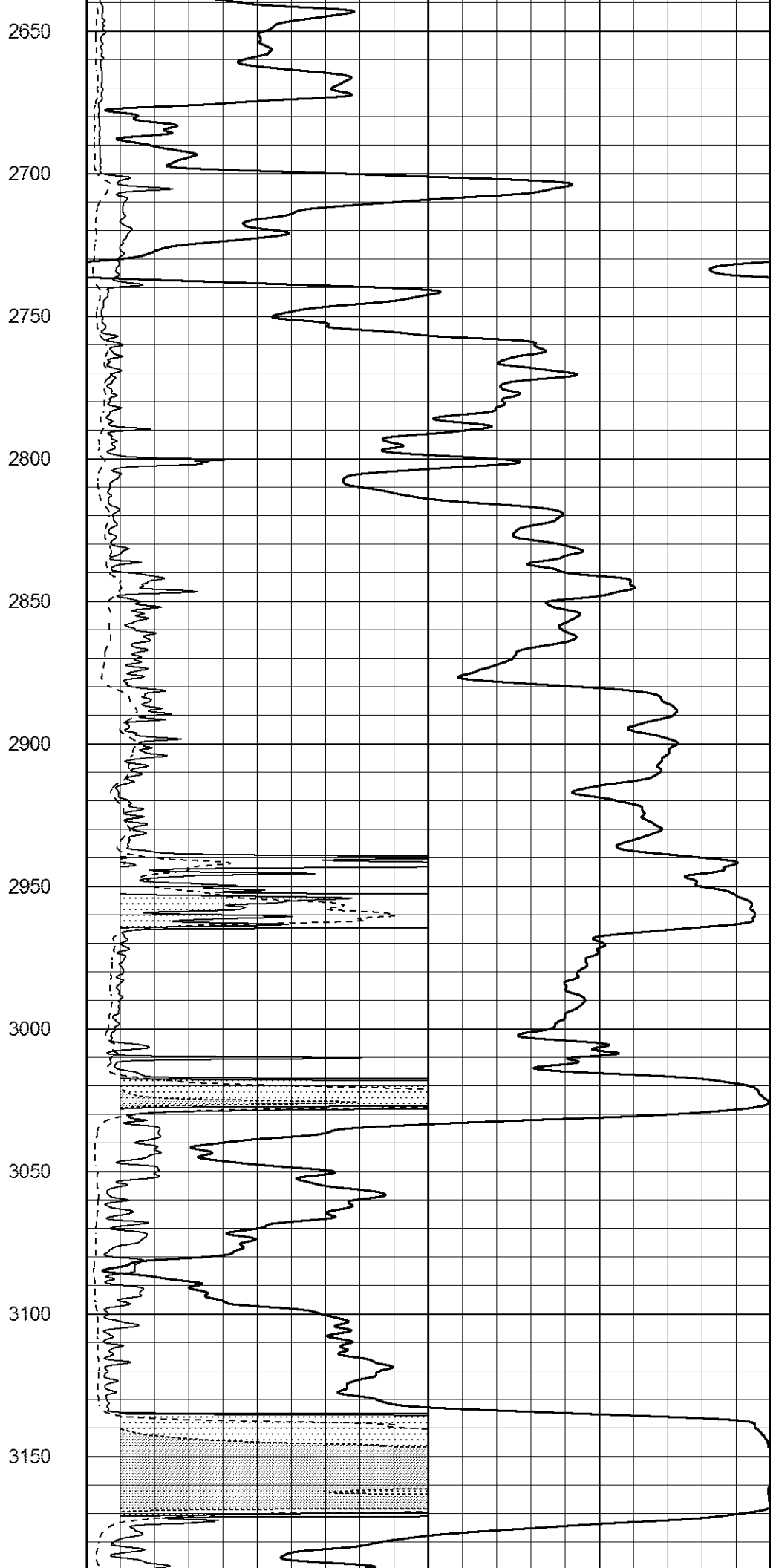
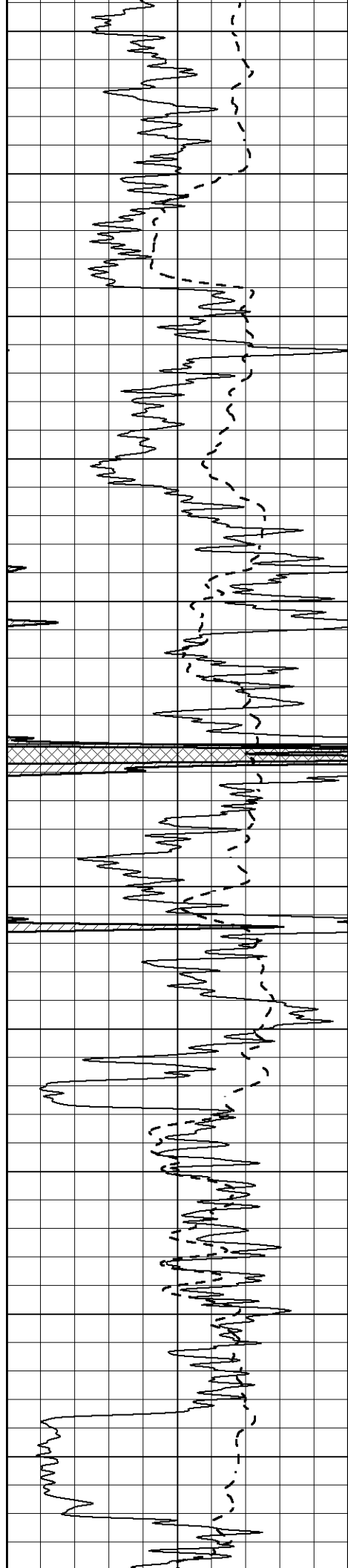
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2500

2550

2600





3200

3250

3300

3350

3400

3450

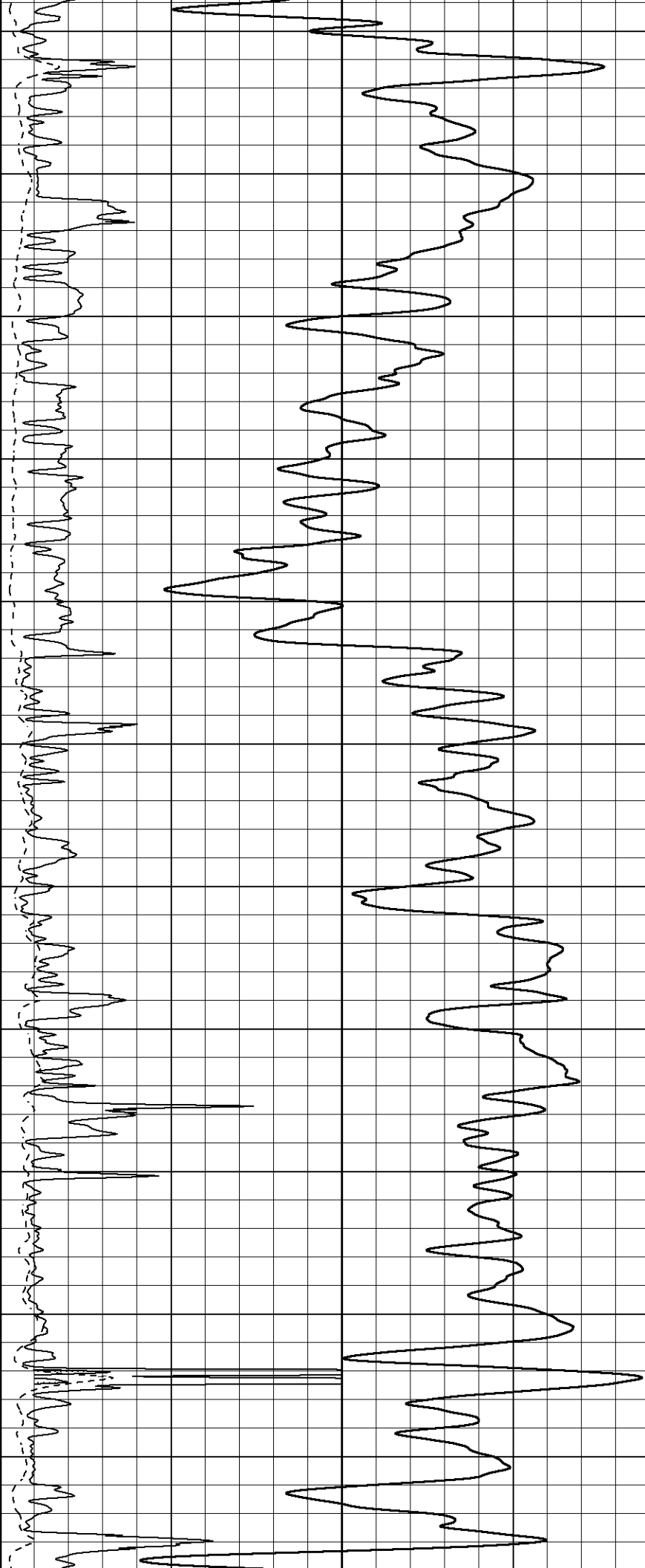
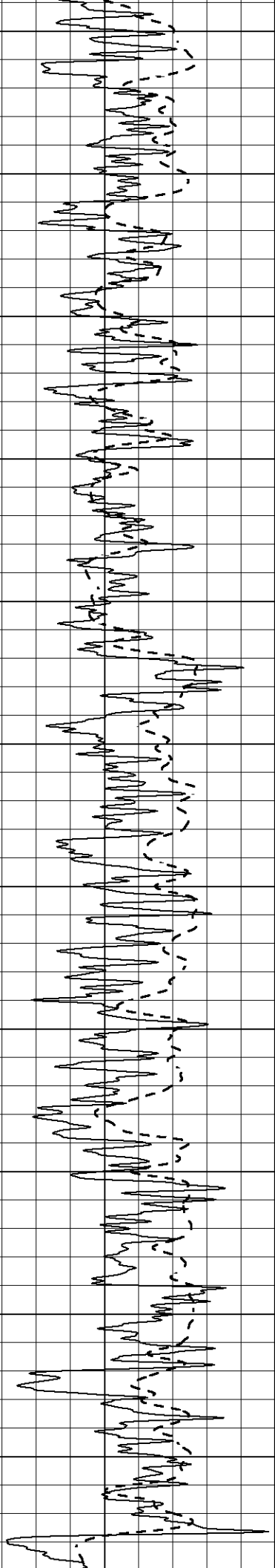
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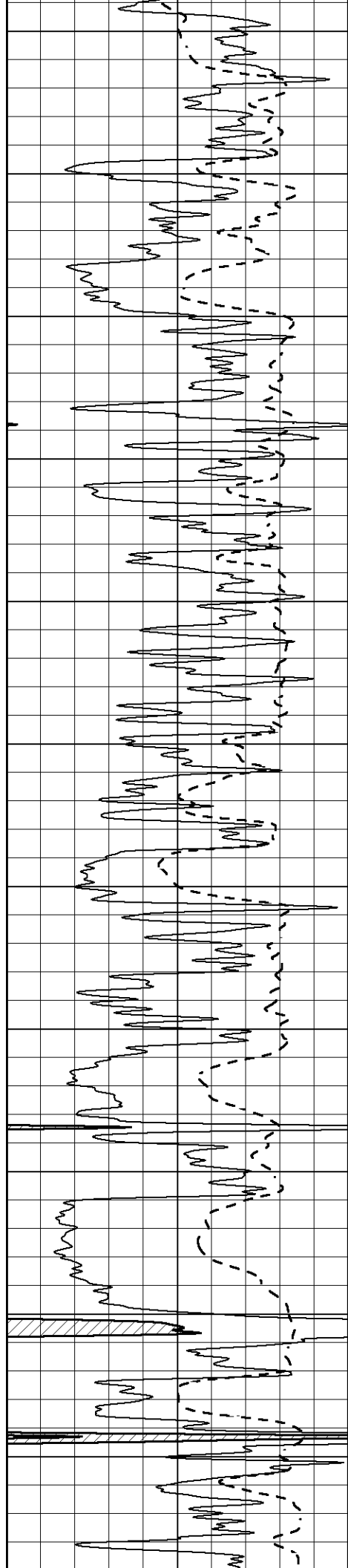
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3600

3650

3700





3750

3800

3850

3900

3950

4000

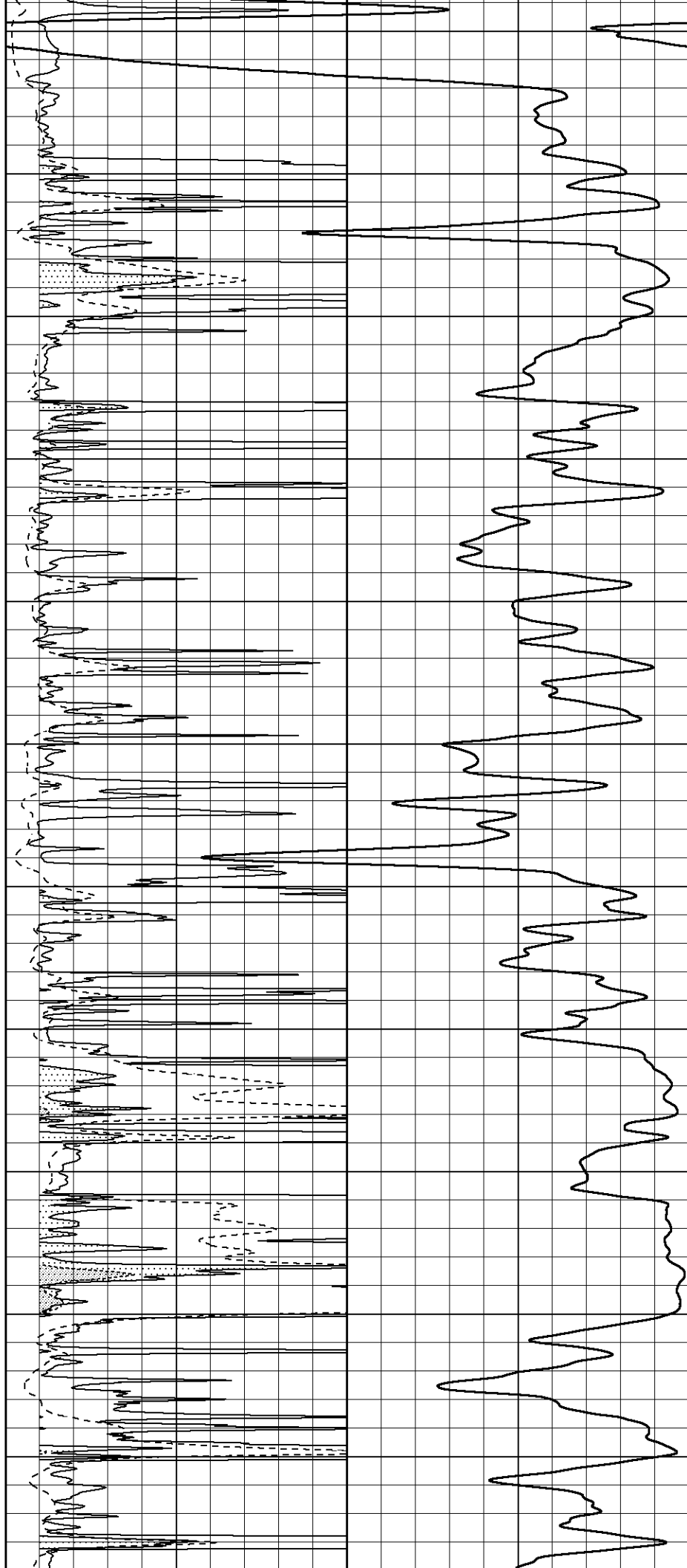
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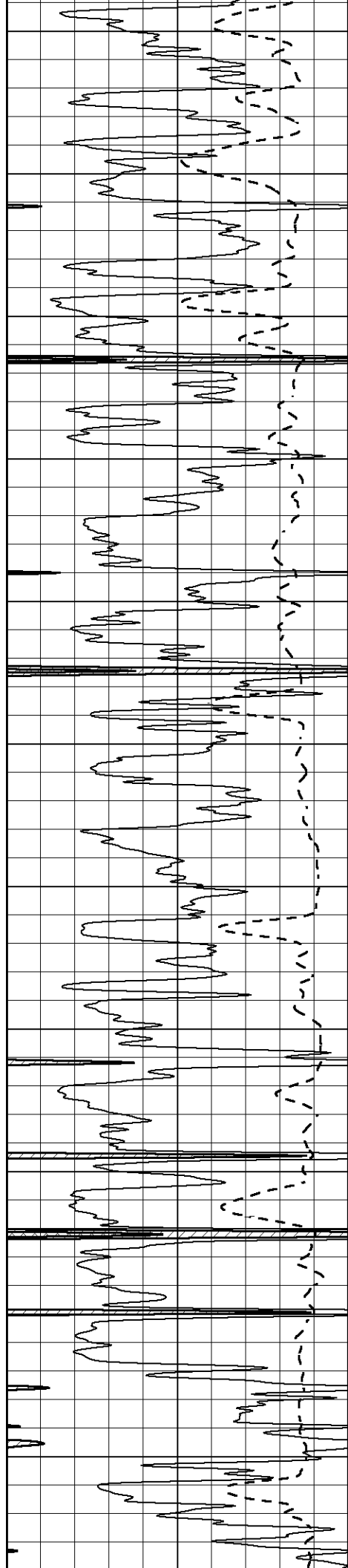
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4150

4200

4250





4300

4350

4400

4450

4500

4550

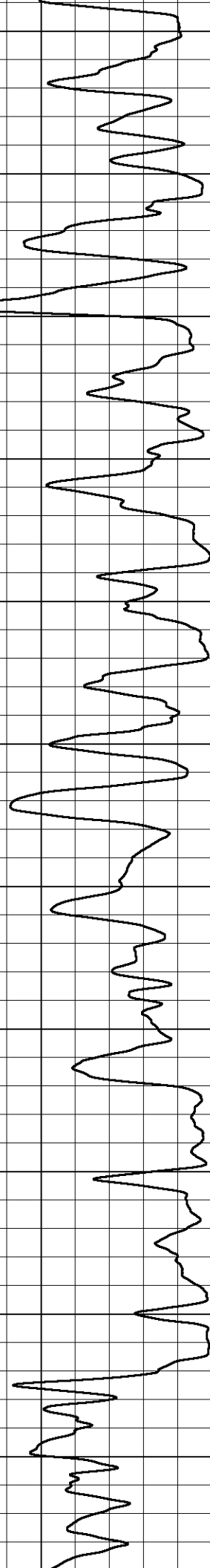
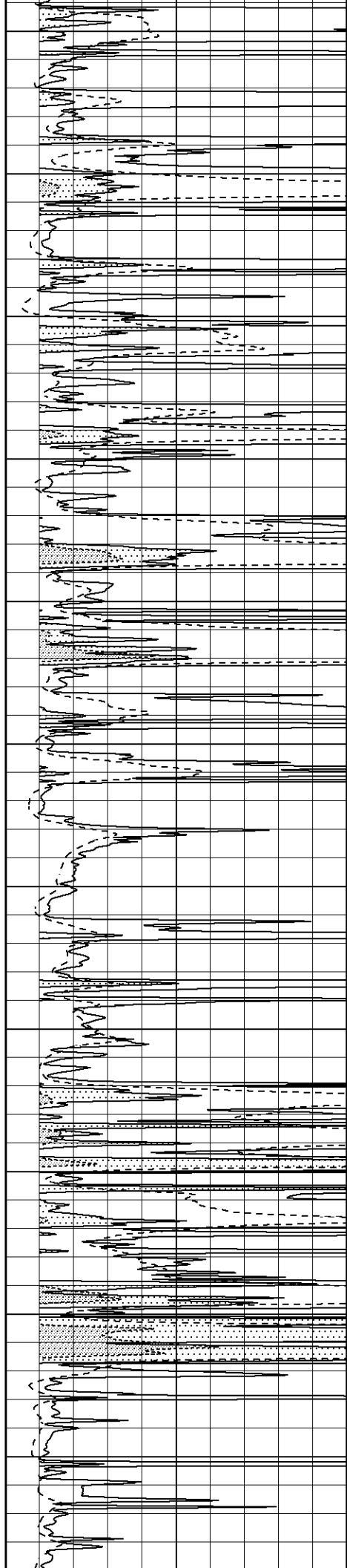
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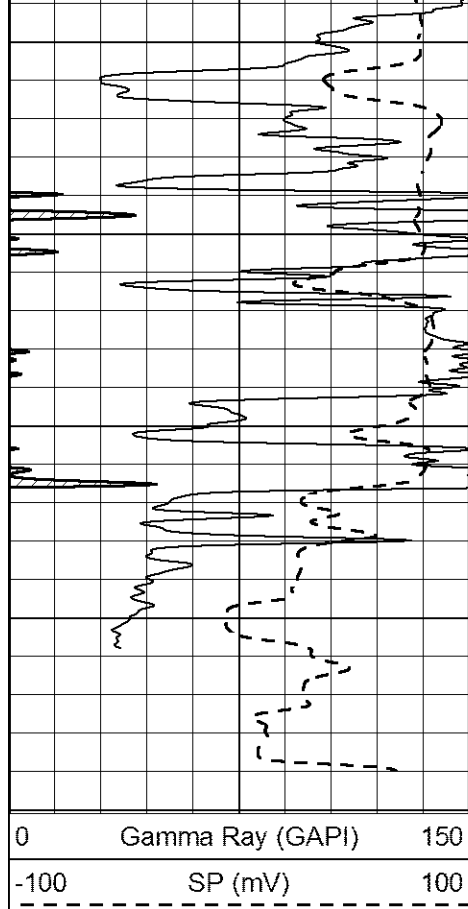
4650

4700

4750

4800





4850

4900

4950

5000

5050

0 Gamma Ray (GAPI) 150

-100 SP (mV) 100

1000

CILD (mmho/m)

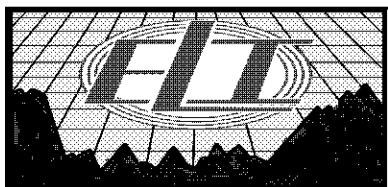
0

0 RLL3 (Ohm-m) 50

0 Deep Induction (Ohm-m) 50

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500



ANHYDRITE

Database File 7718ddn.db
 Dataset Pathname pass4A
 Presentation Format _dil
 Dataset Creation Sun Sep 03 08:19:13 2023
 Charted by Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150

-100 SP (mV) 100

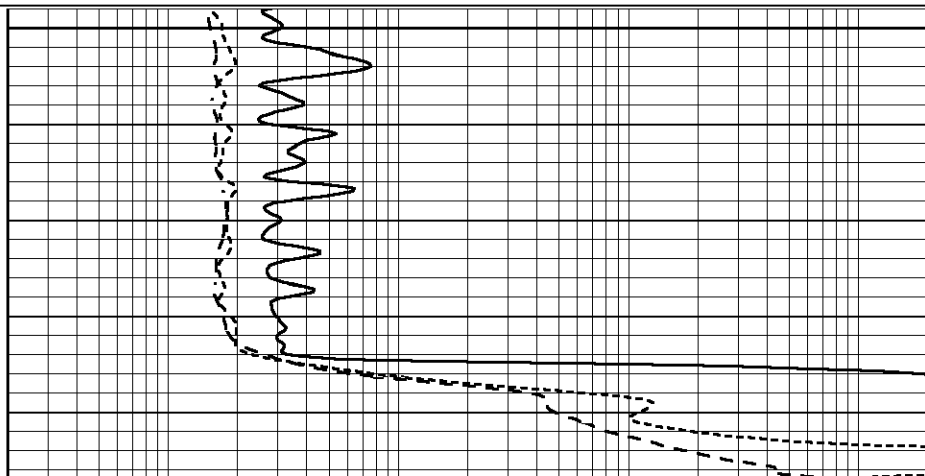
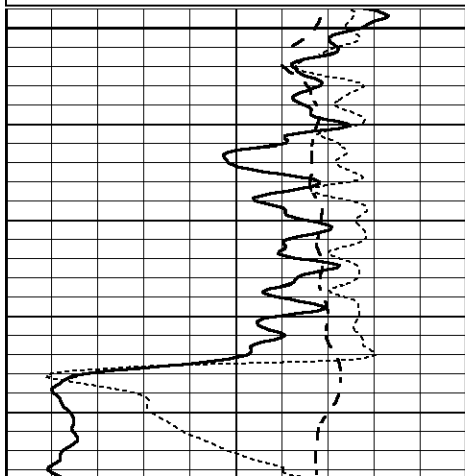
-250 Rxo/Rt 50

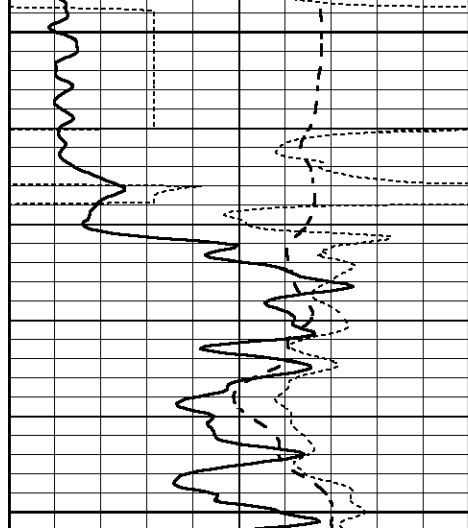
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0.2 MEDIUM INDUCTION (Ohm-m) 2000

0.2 DEEP INDUCTION (Ohm-m) 2000

3100

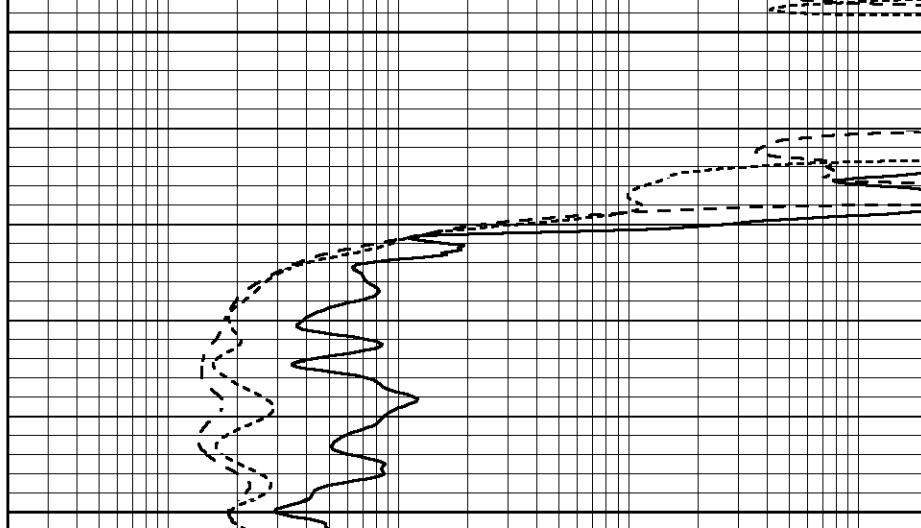




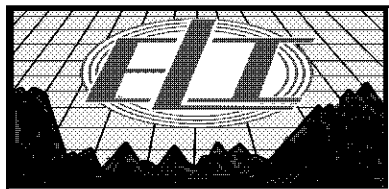
3150

3200

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

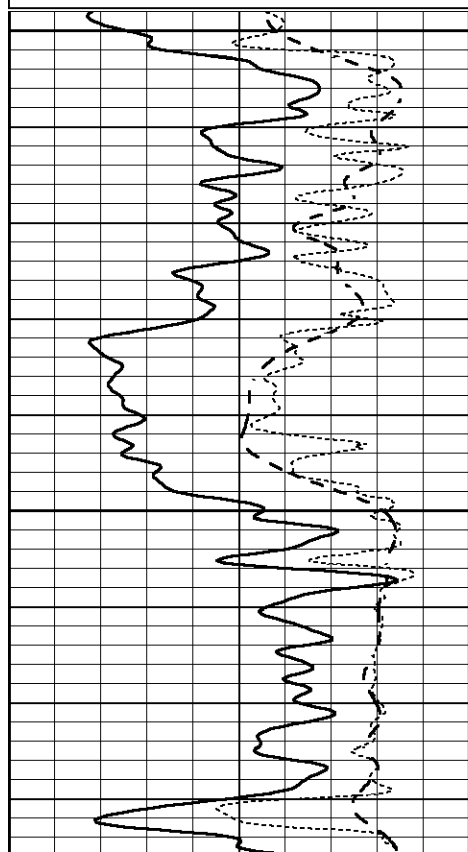


MAIN SECTION

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 Dataset Pathname pass4D
 Presentation Format _dil
 Dataset Creation Sun Sep 03 08:14:06 2023
 Charted by Depth in Feet scaled 1:240

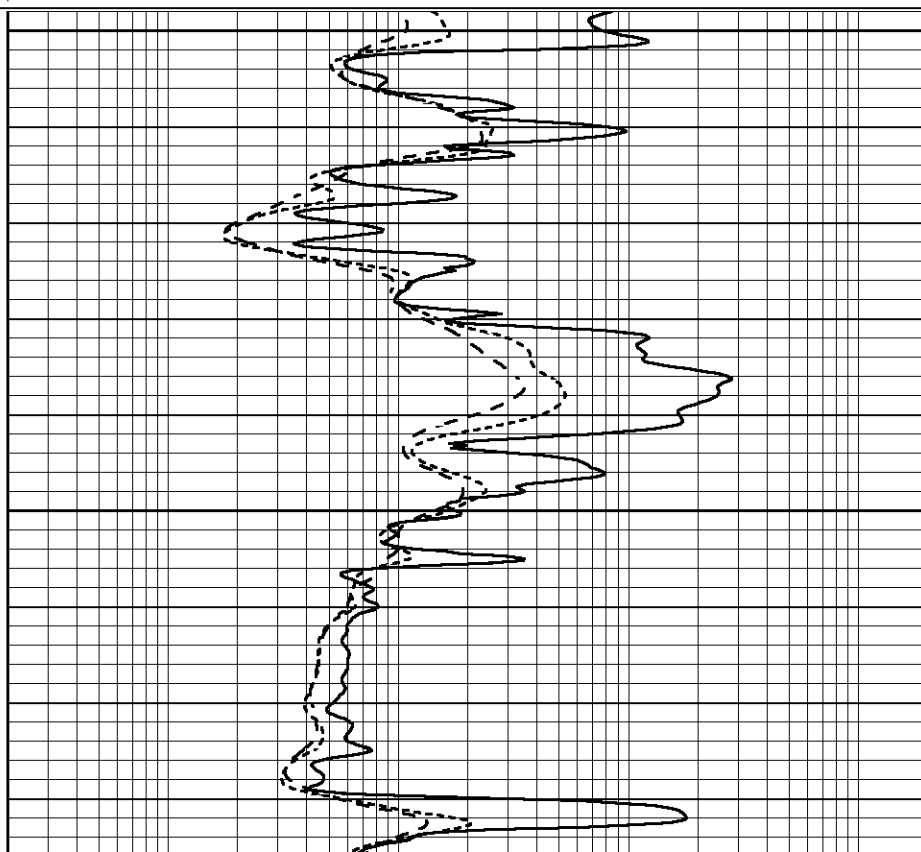
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

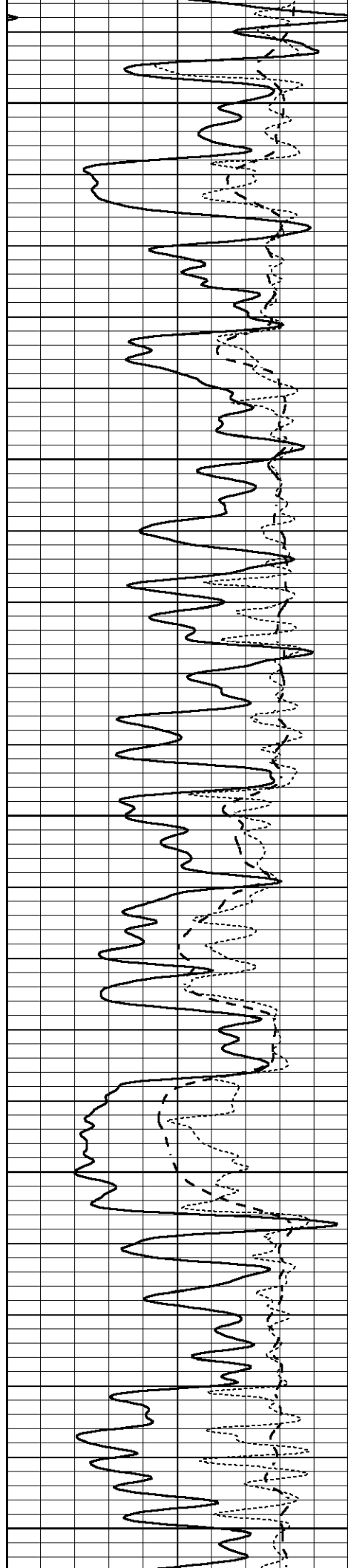
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



3800

3850





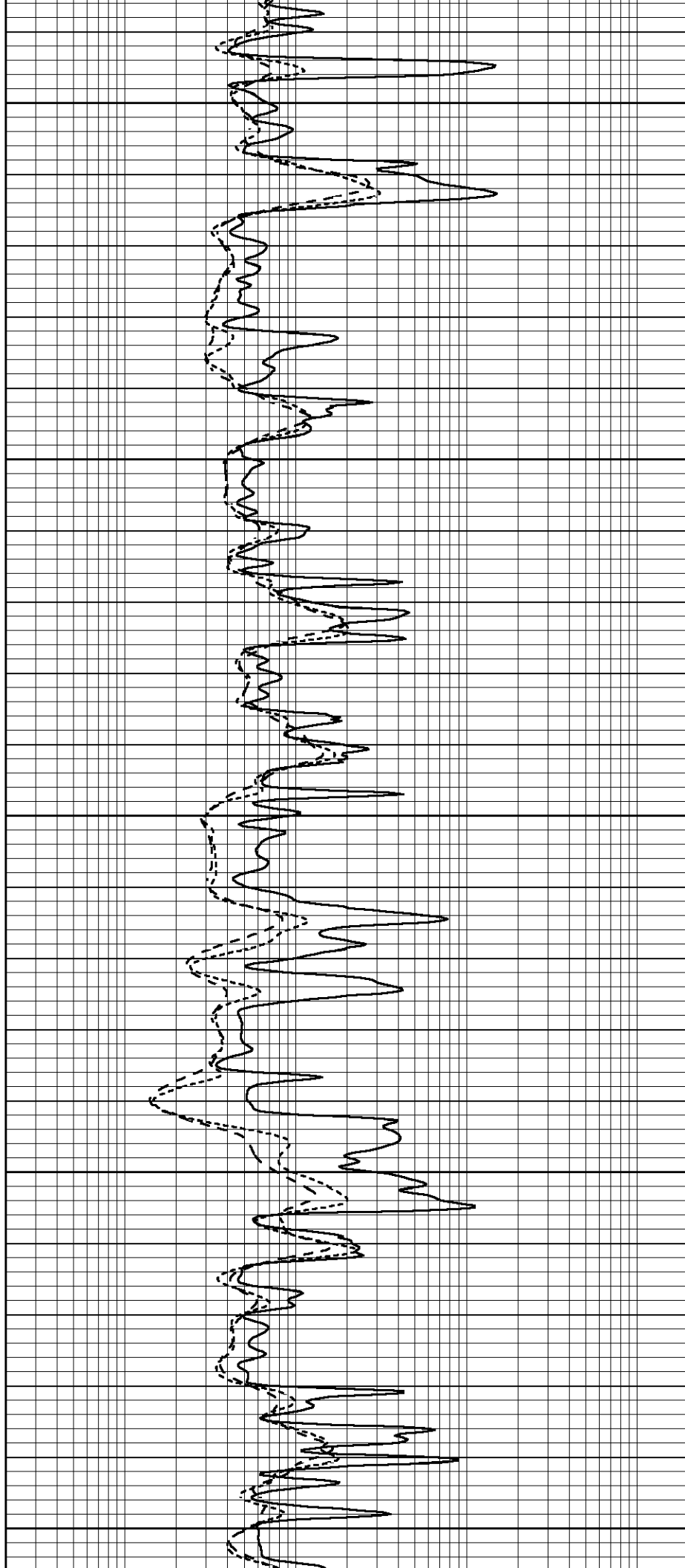
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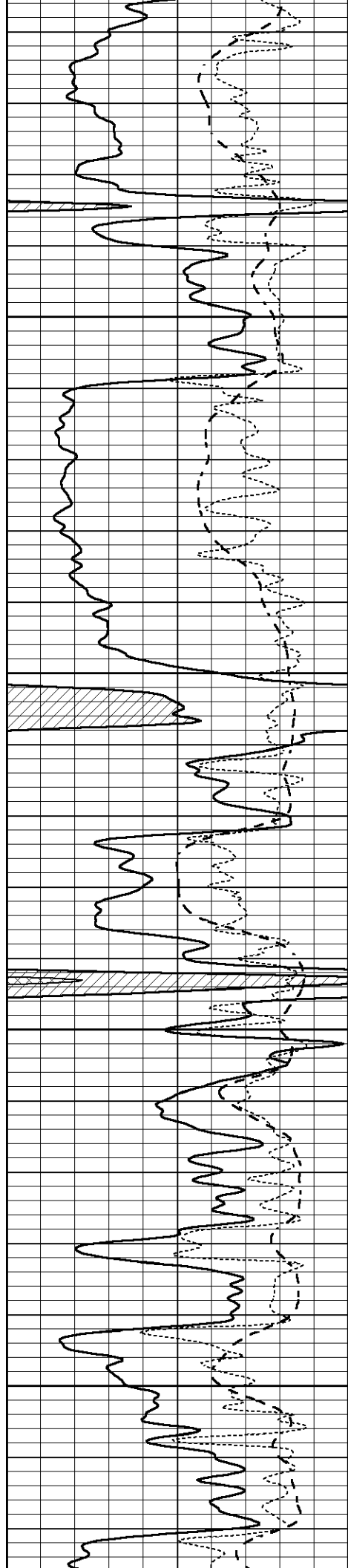
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4000

4050

4100



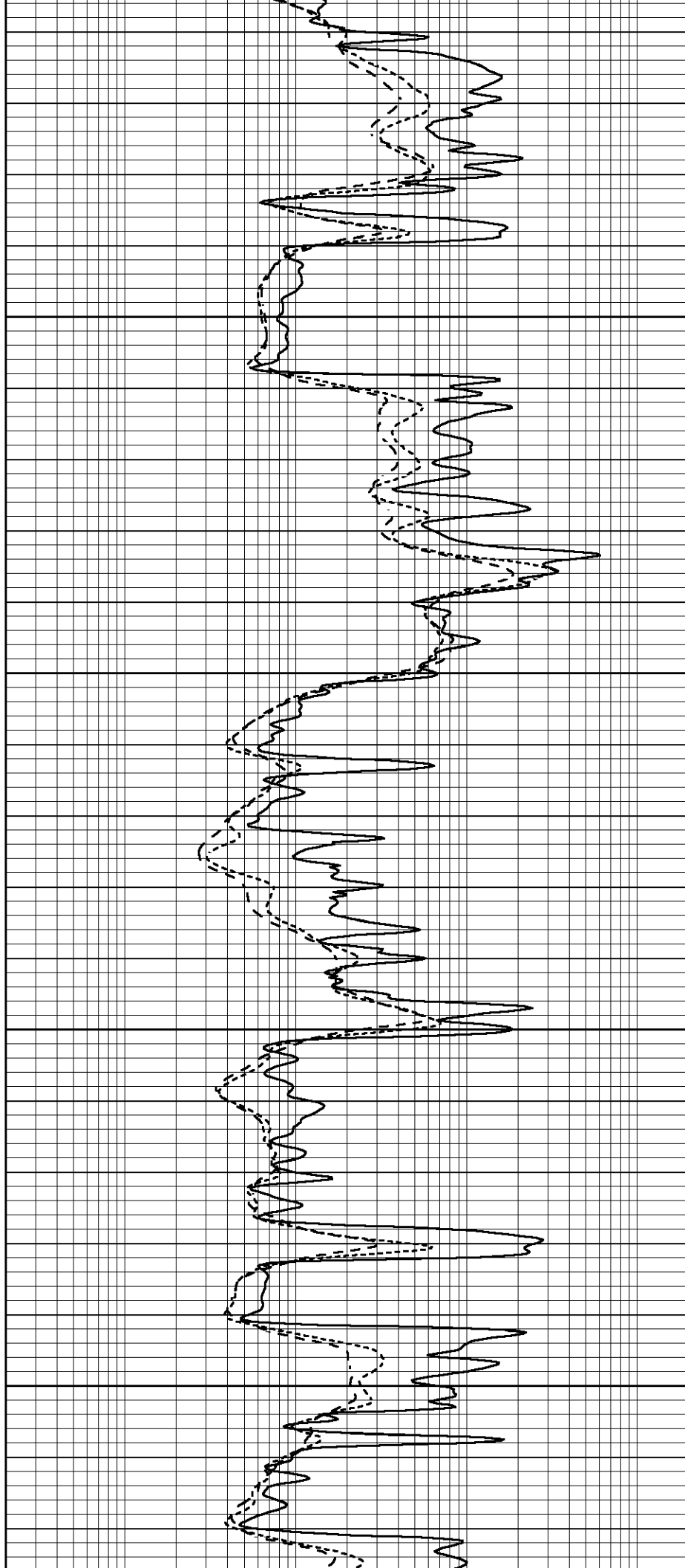


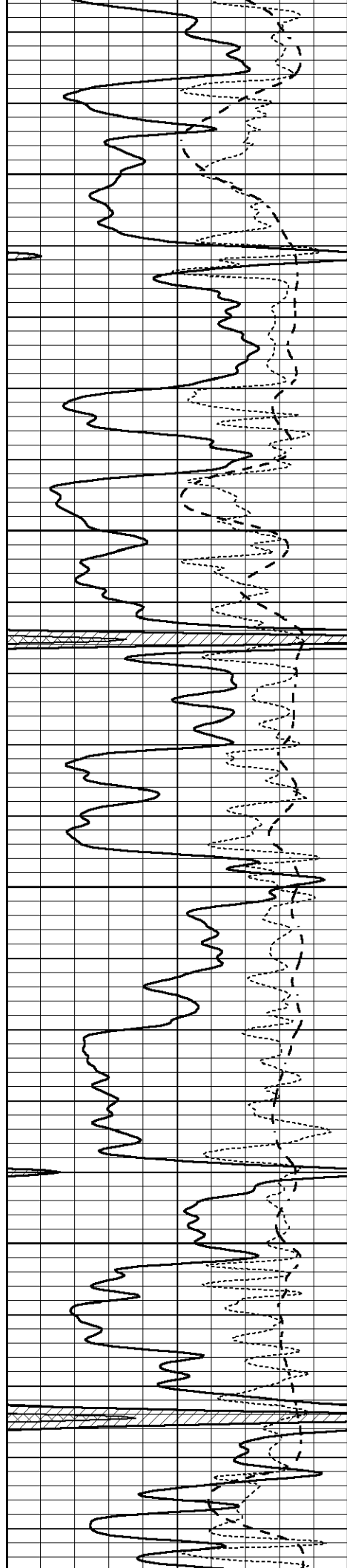
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4200

4250

4300



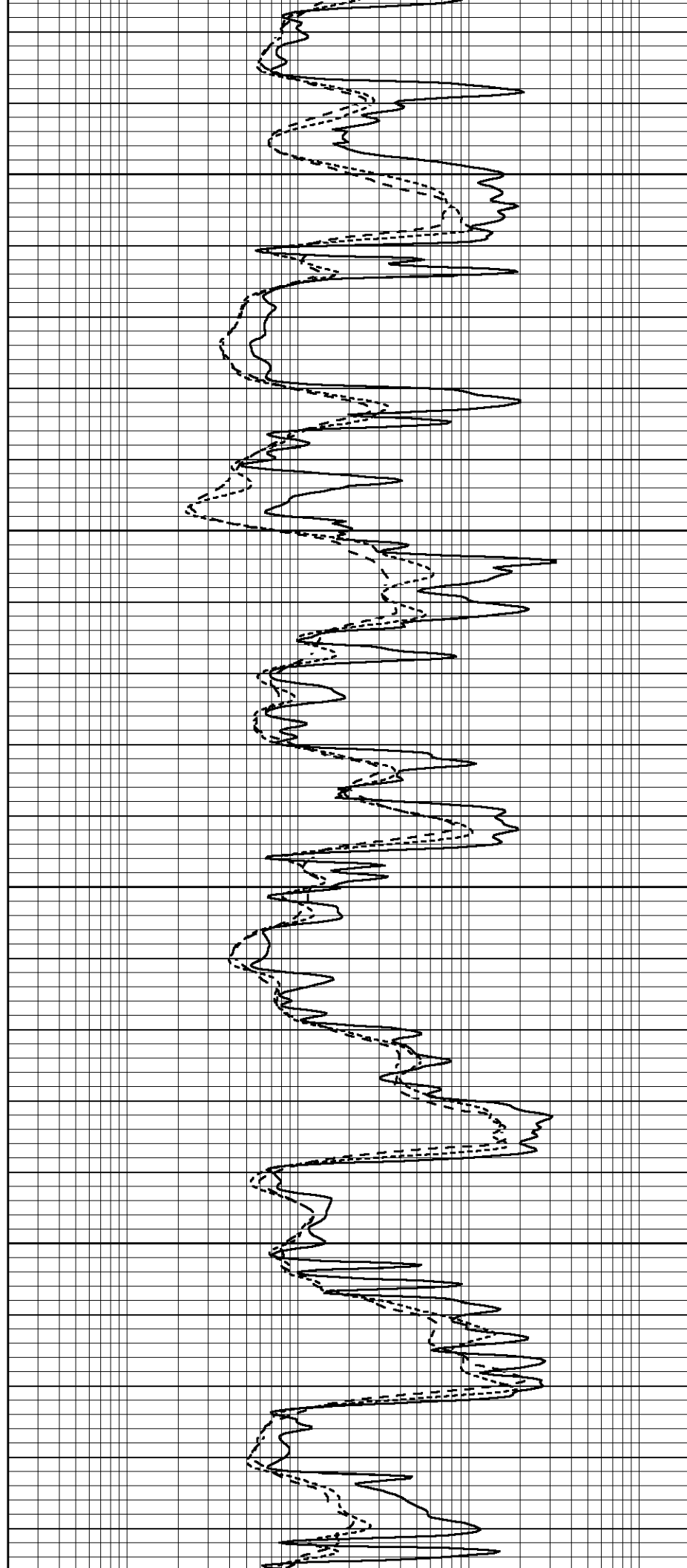


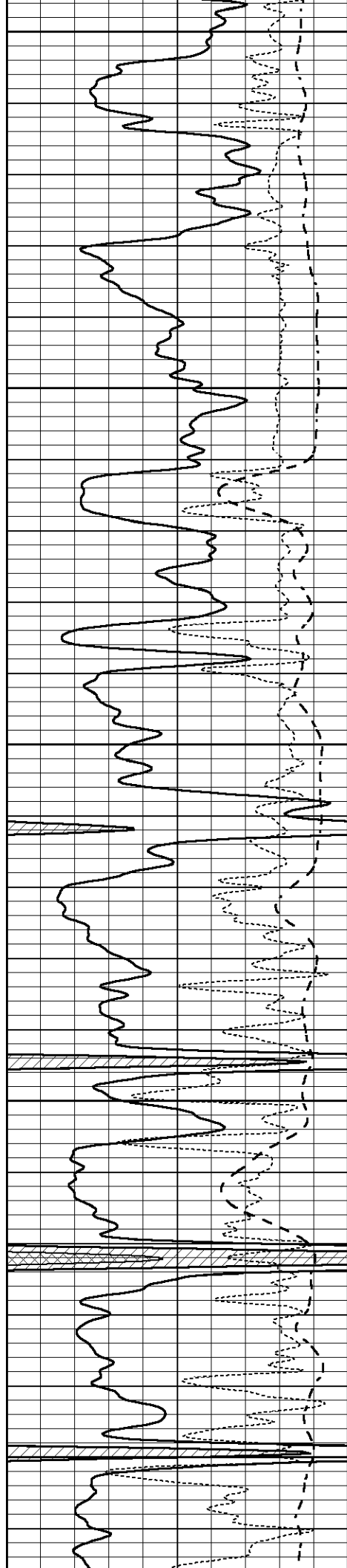
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4400

4450

4500





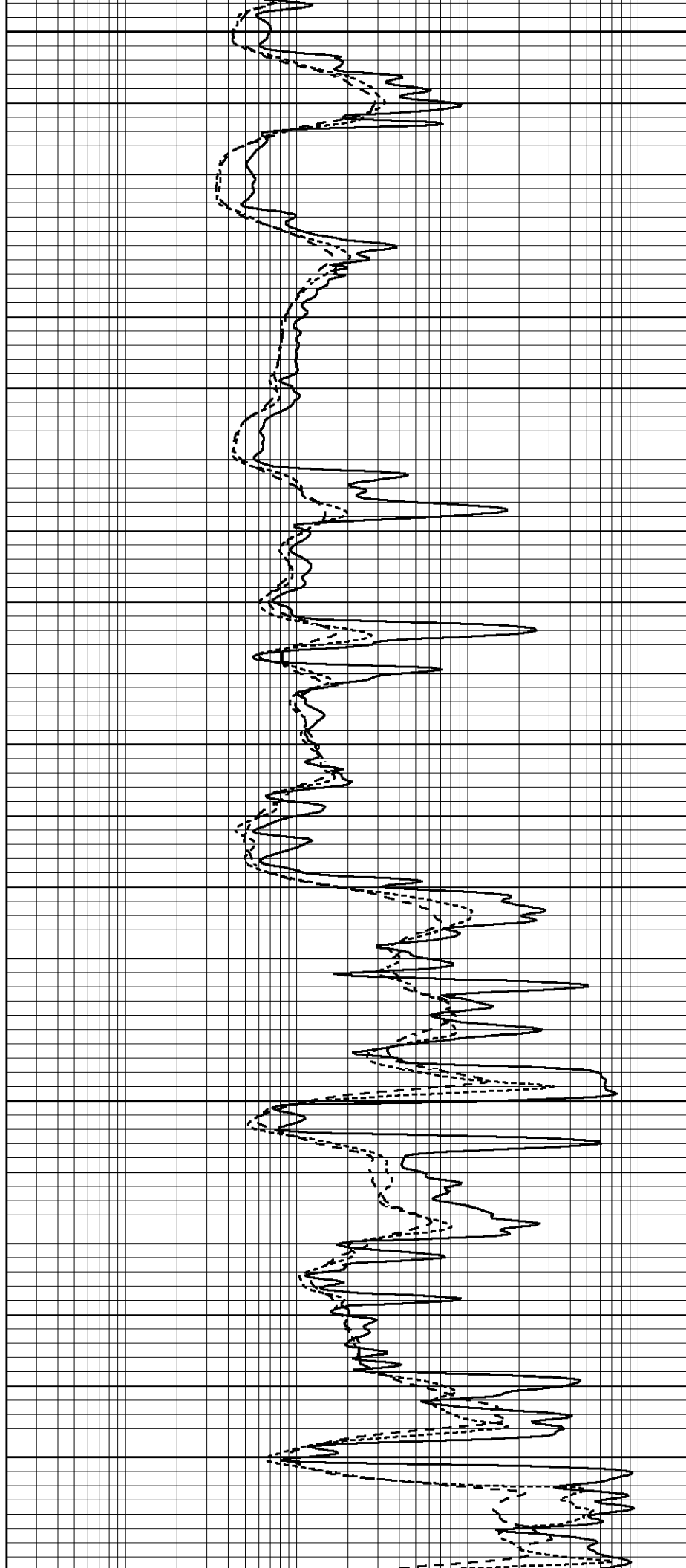
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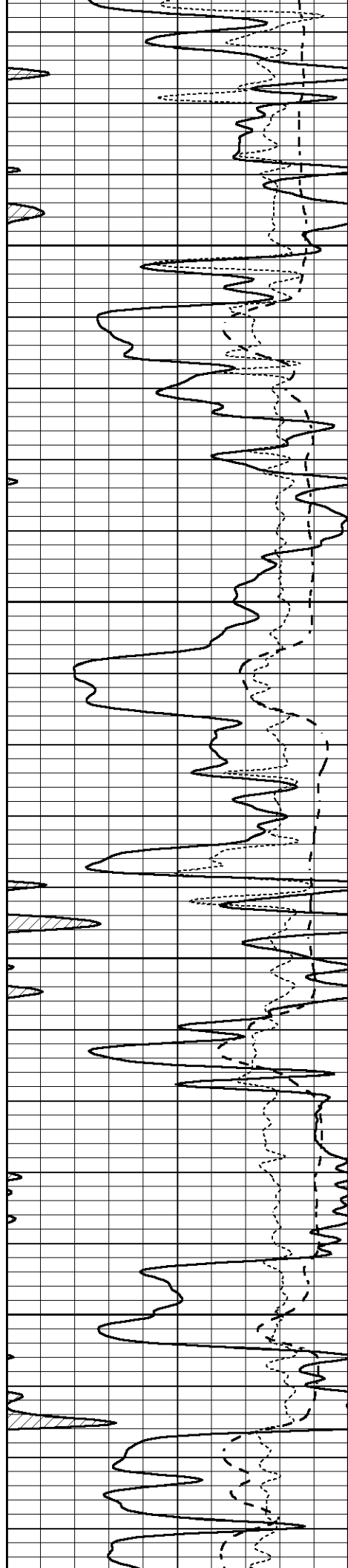
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4650

4700

4750



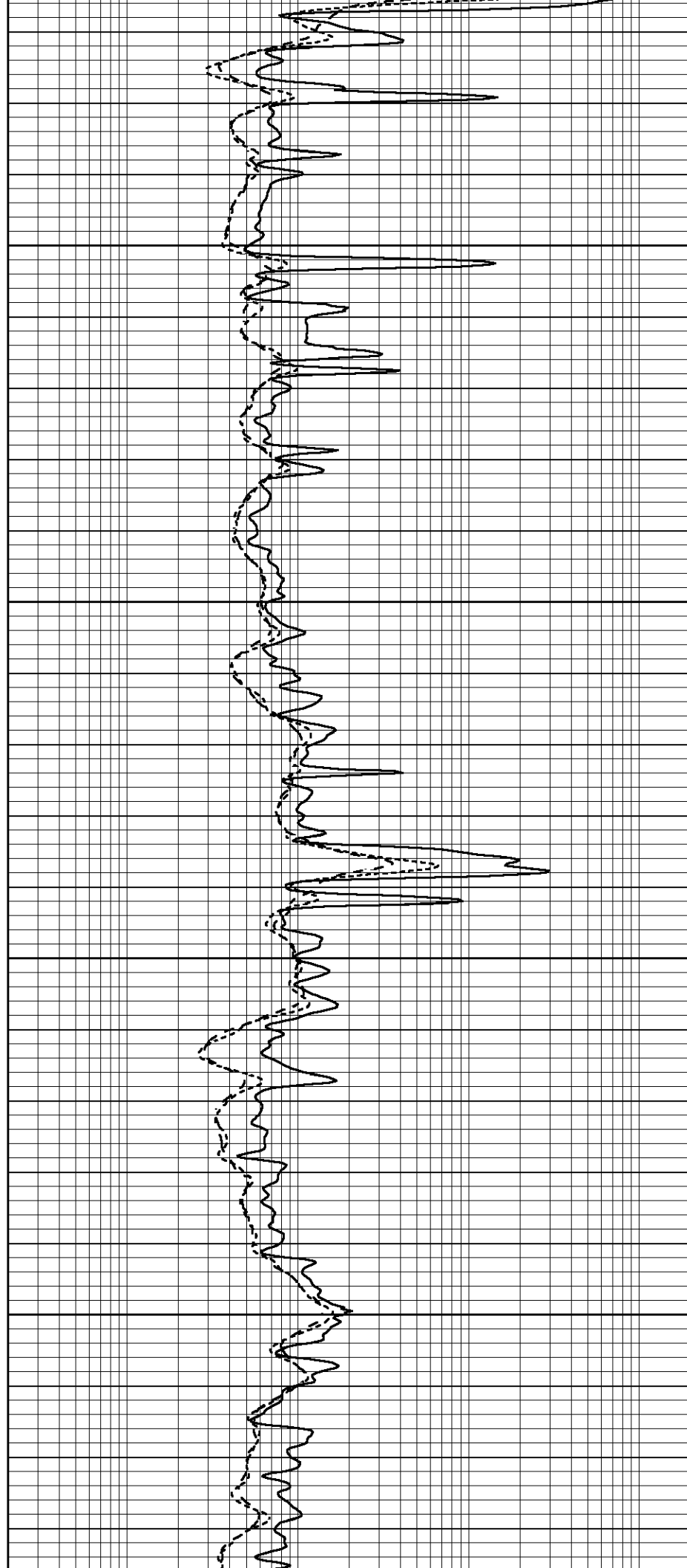


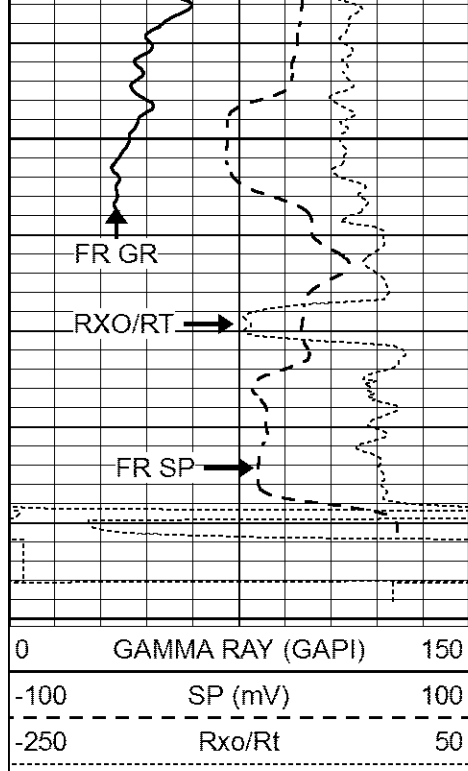
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4850

4900

4950

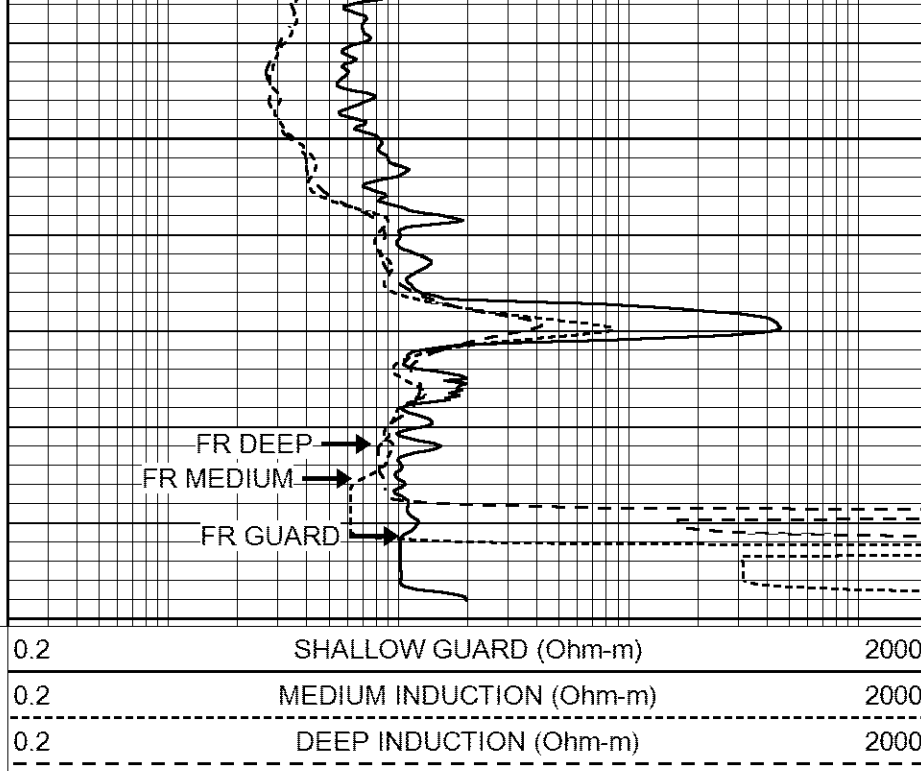




5000

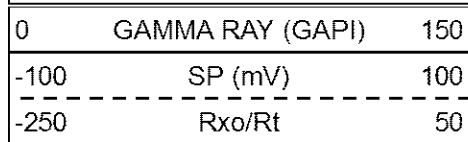
LTD 5044

5050



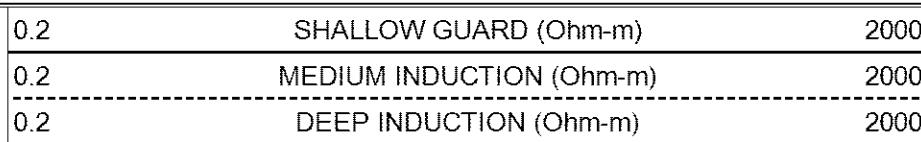
REPEAT SECTION

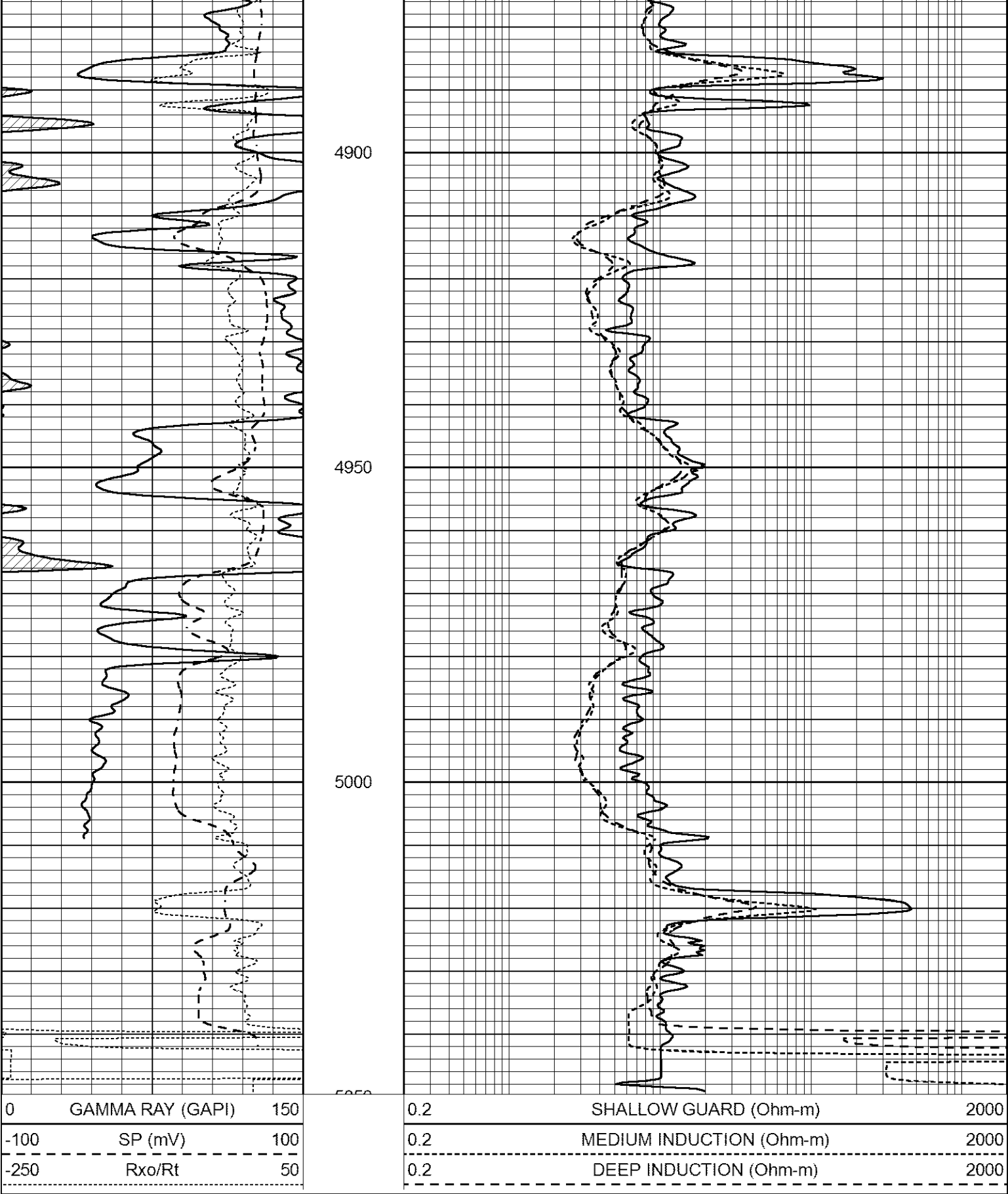
Database File 7718ddn.db
 Dataset Pathname pass3R
 Presentation Format _dil
 Dataset Creation Sun Sep 03 08:24:43 2023
 Charted by Depth in Feet scaled 1:240



4800

4850





Calibration Report

Database File 7718ddn.db
Dataset Pathname pass4M
Dataset Creation Sun Sep 03 08:39:32 2023

Serial-Model:
Surface Cal Performed:
Downhole Cal Performed:
After Survey Verification Performed:

FW1410-55-Probe
Sat Jul 29 01:57:42 2023
Tue Feb 19 11:44:24 2019
Tue Feb 19 11:44:27 2019

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	565.000	-11.500
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	530.000	-13.000
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 May 12 10:26:47 2023				
	Background		Aluminum	Magnesium				
Window 1	521.46		5212.91	23528.37		cps		
Window 2	43.81		1175.90	6160.42		cps		
Window 4	226.45		1217.97	4891.35		cps		
Window 5	519.17		8959.34	17037.10		cps		
Window 6	39.35		1453.85	2926.68		cps		
Window 8	253.66		2919.24	5361.51		cps		
Bulk Density	-		2.6020	1.6830		g/cc		
Pe	-		3.0000	2.5070		b/e		
LS Alpha:	: -1.7699		SS Alpha:	: -0.7448		LS CPE:	: 1.1844	
LS Beta:	: 101708.6271		SS Beta:	: 19263.5258		SS CPE:	: 1.5835	

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 May 12 10:26:47 2023			
Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
7228.5	10151.9	8.0	14.0	0.0	-6.8

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 Aug 01 20:36:29 2023	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:

0.4400

GAPI/cps