

DUAL INDUCTION LOG

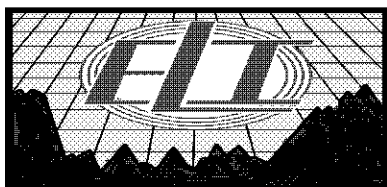
Company RL INVESTMENT, LLC.		Company RL INVESTMENT, LLC.	
Well	PRATT "A" #1-35	Well PRATT "A" #1-35	
Field	HOXIE WEST	Field HOXIE WEST	
County	SHERIDAN	County	SHERIDAN
State	KANSAS	State	KANSAS
Location:		API # : 15-179-21442-0000	Other Services CDL/CNL MEL
Permanent Datum Log Measured From Drilling Measured From		2310' FNL & 330' FWL SW - SW - NW SEC 35 TWP 8S RGE 29W GROUND LEVEL Elevation 2817 KELLY BUSHING 7' A.G.L KELLY BUSHING	
Date	2/24/18	Elevation	K.B. 2824 D.F. 2822 G.L. 2817
Run Number	ONE		
Depth Driller	4460		
Depth Logger	4461		
Bottom Logged Interval	4459		
Top Log Interval	00		
Casing Driller	8 5/8" @ 262		
Casing Logger	262		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2900 PPM	
Density / Viscosity	9.4/60		
pH / Fluid Loss	10.5/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10 @ 60F		
Rmf @ Meas. Temp	0.82 @ 60F		
Rmc @ Meas. Temp	1.32 @ 60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.55 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	120F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	RICHARD BELL		

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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.

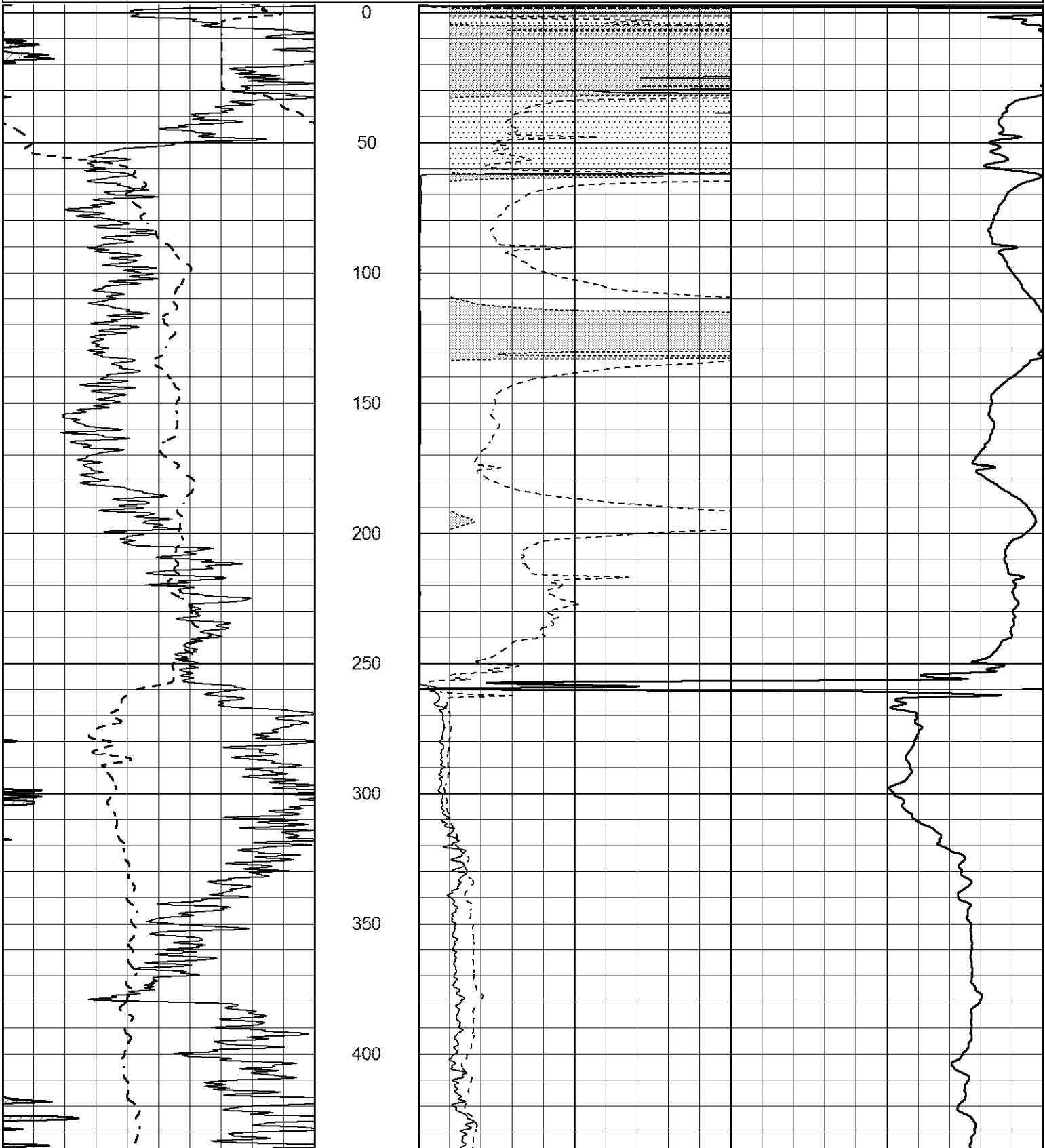
Comments

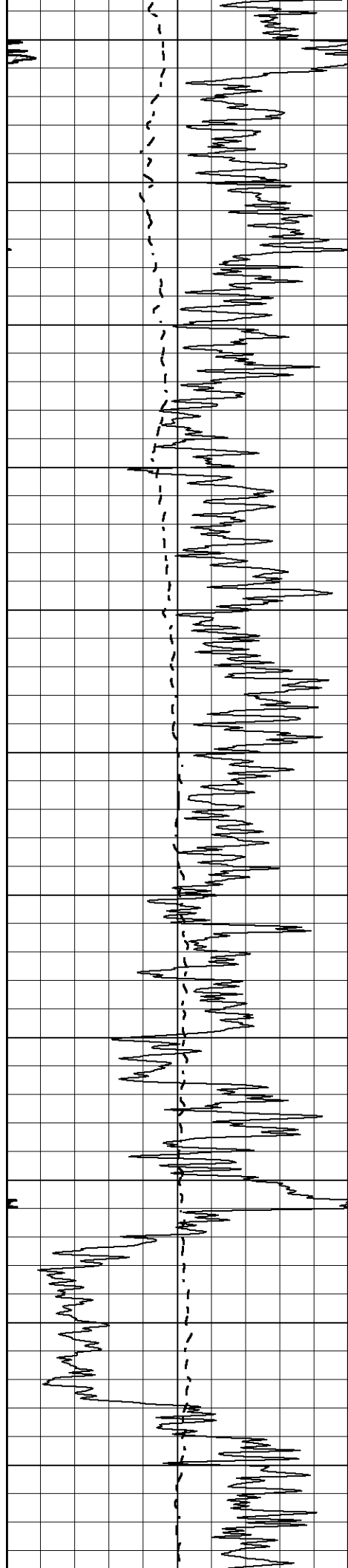
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HOXIE, KS. - 2 SOUTH TO RD 30S - 5 WEST TO RD. 50 - 1/2 SOUTH - EAST INTO



MAIN SECTION

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

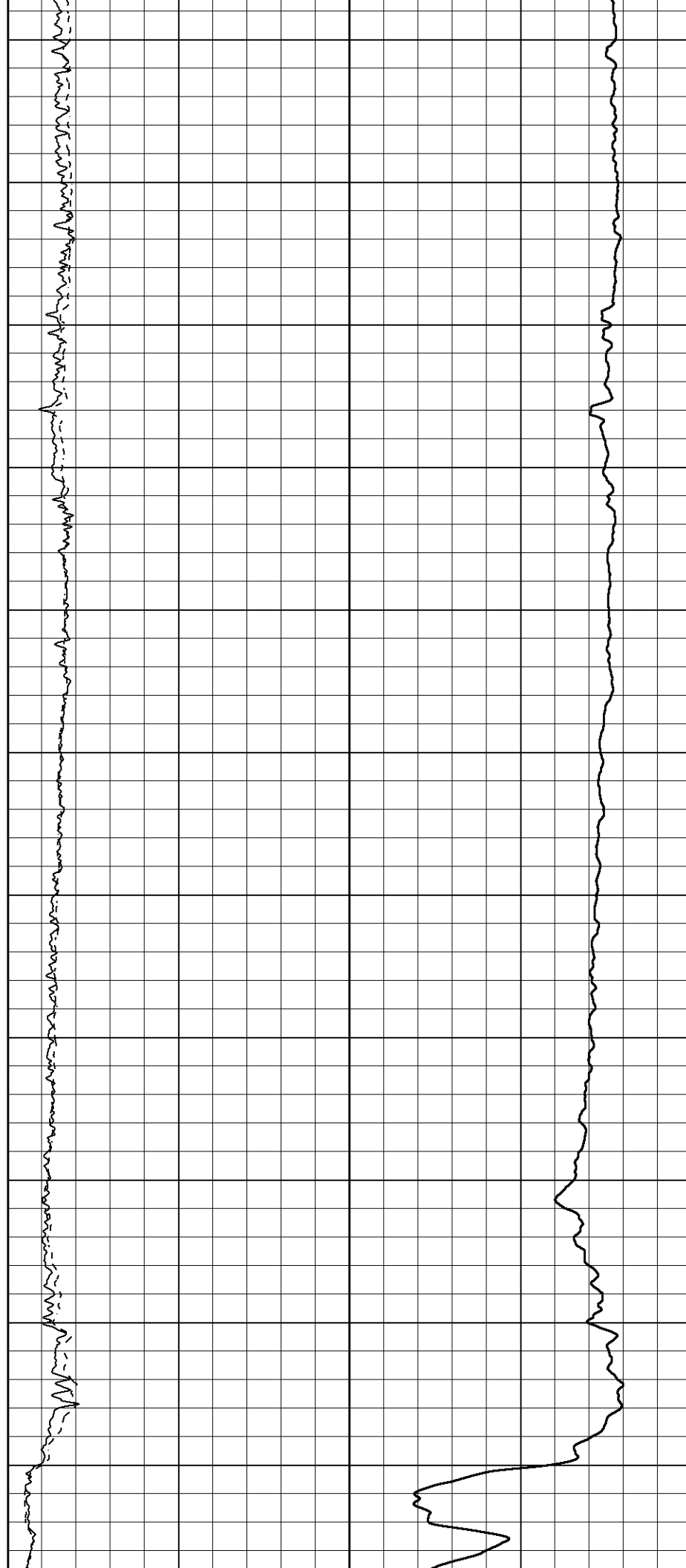
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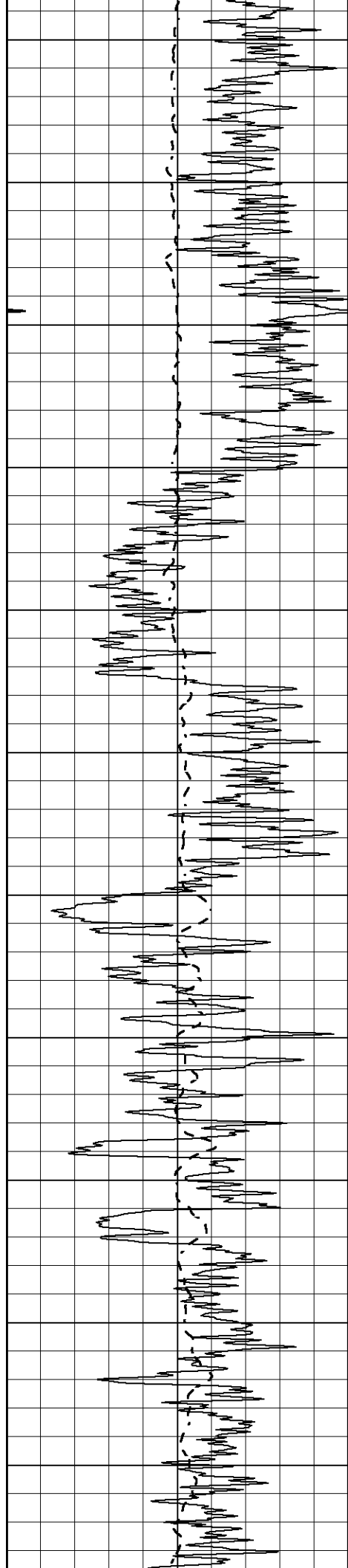
800

850

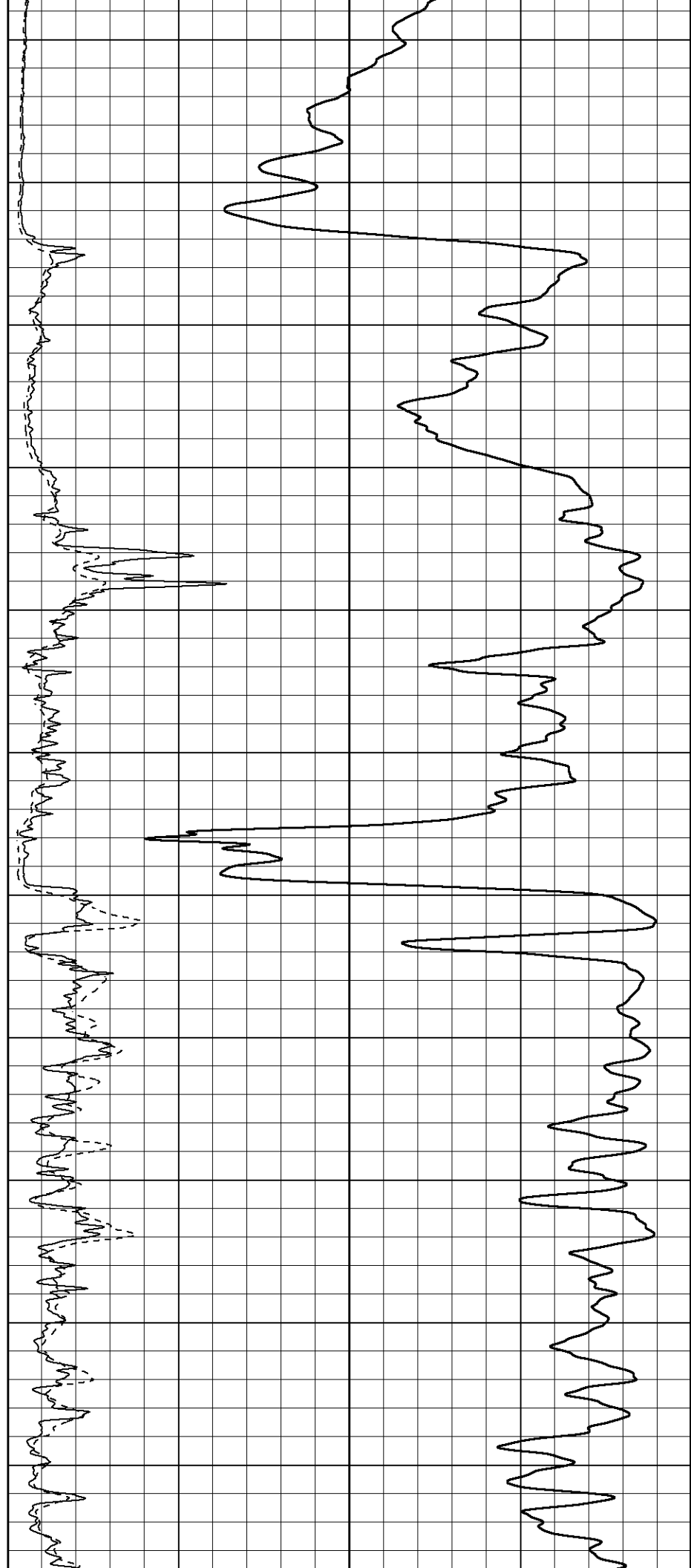
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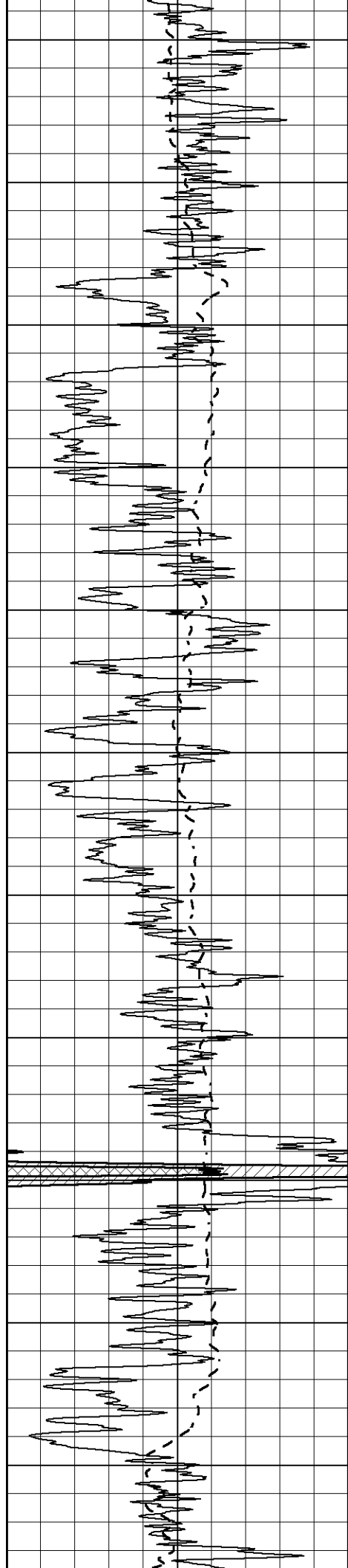
950





1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500





1550

1600

1650

1700

1750

1800

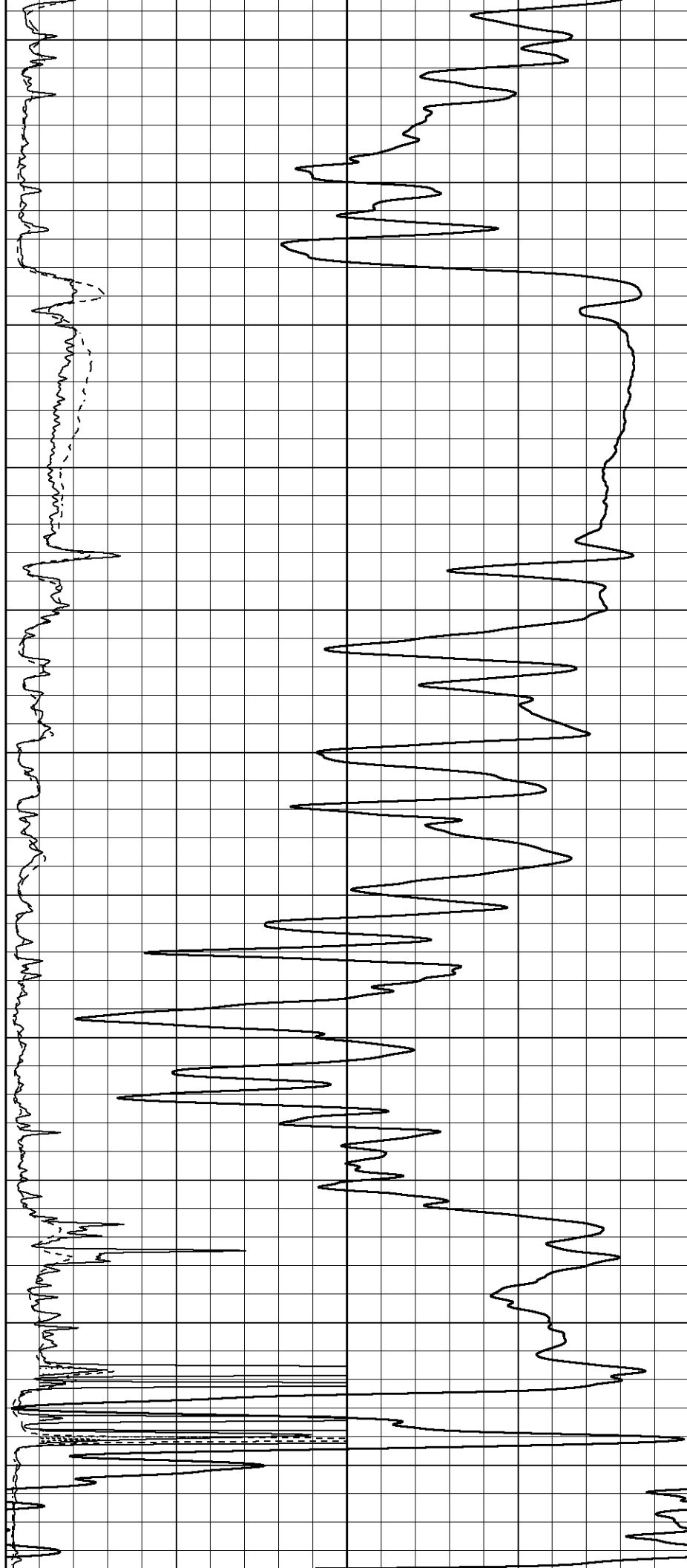
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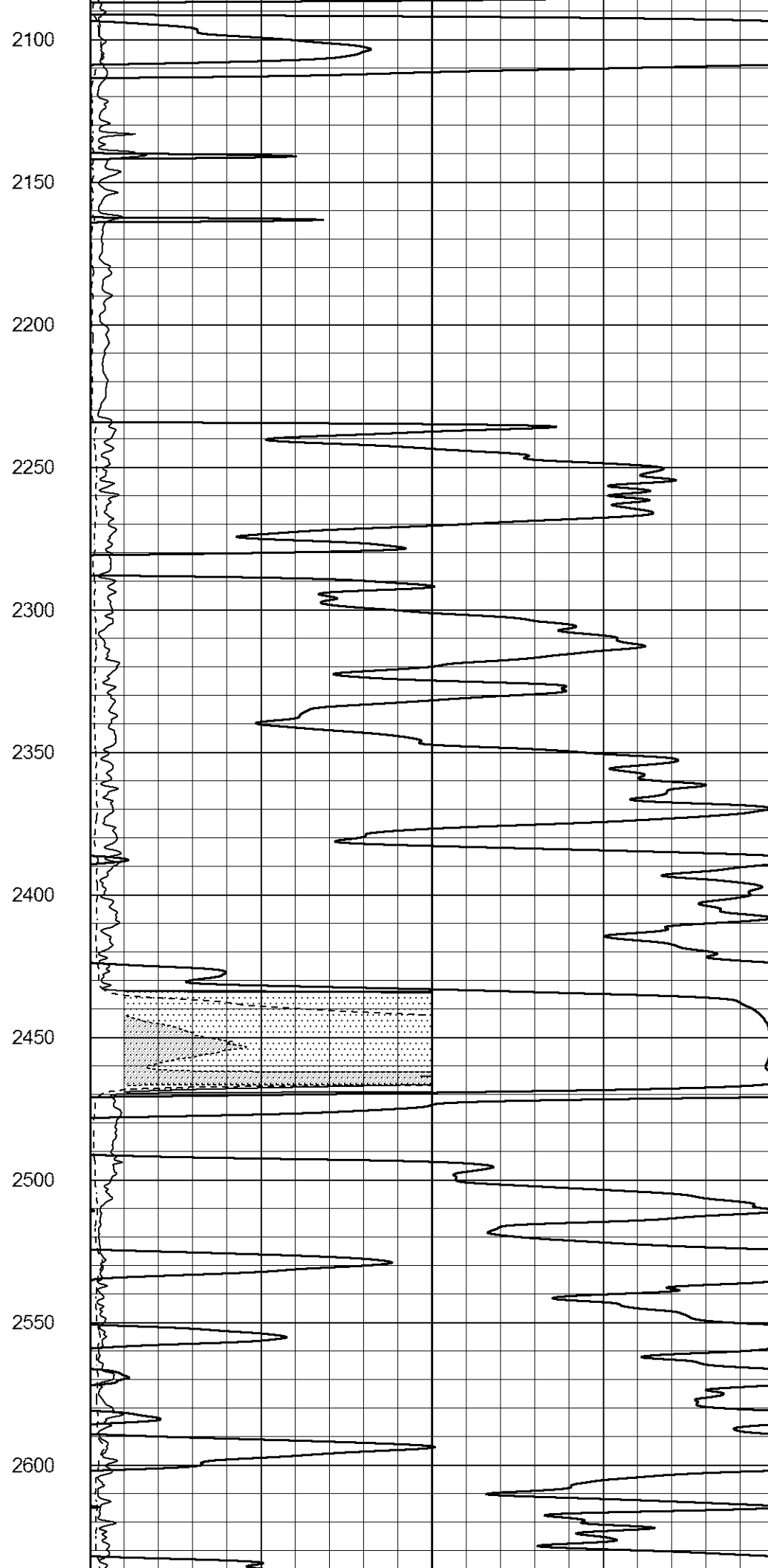
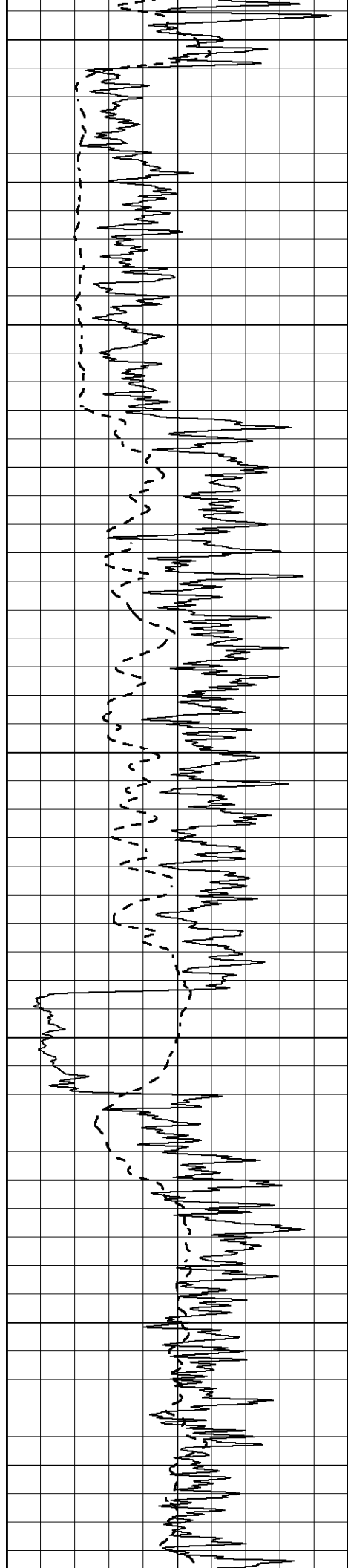
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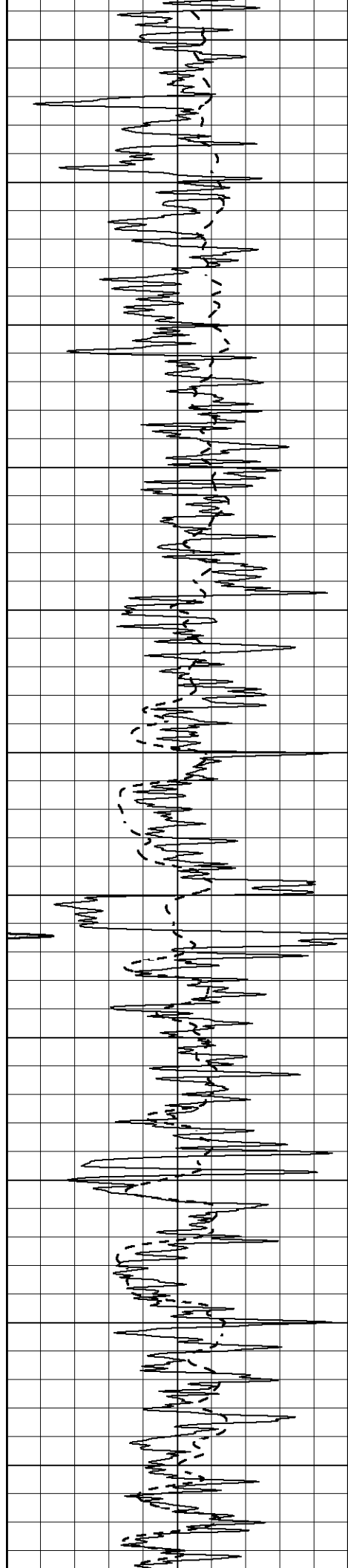
1950

2000

2050







2650

2700

2750

2800

2850

2900

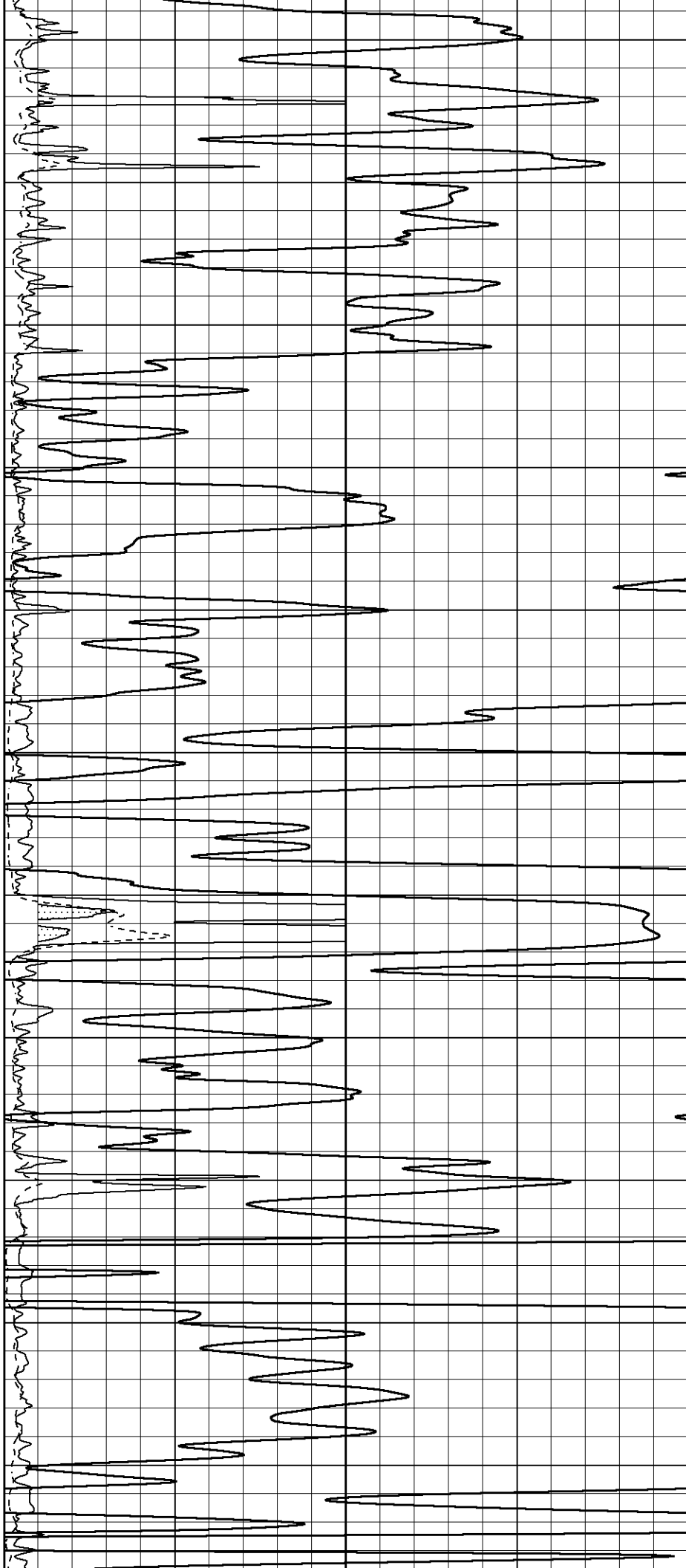
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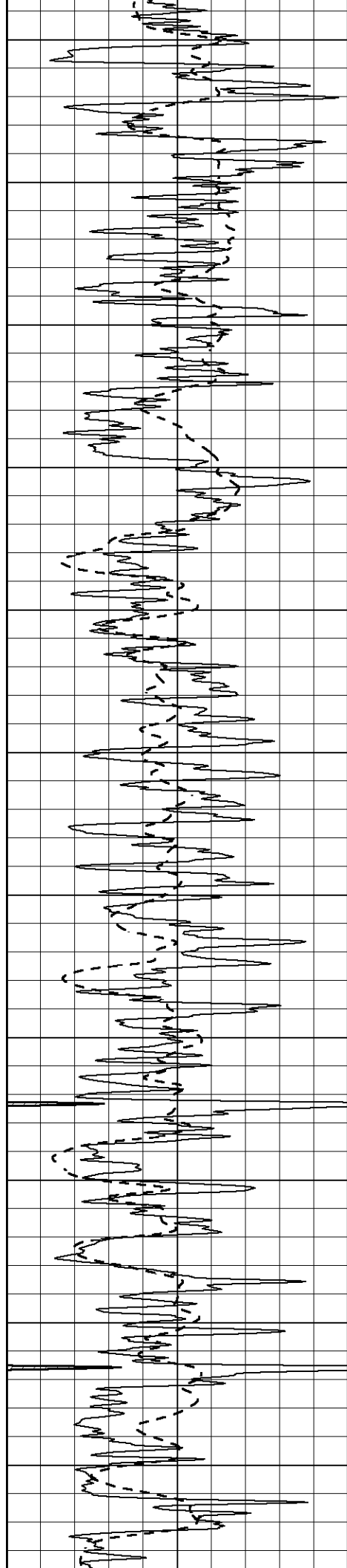
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

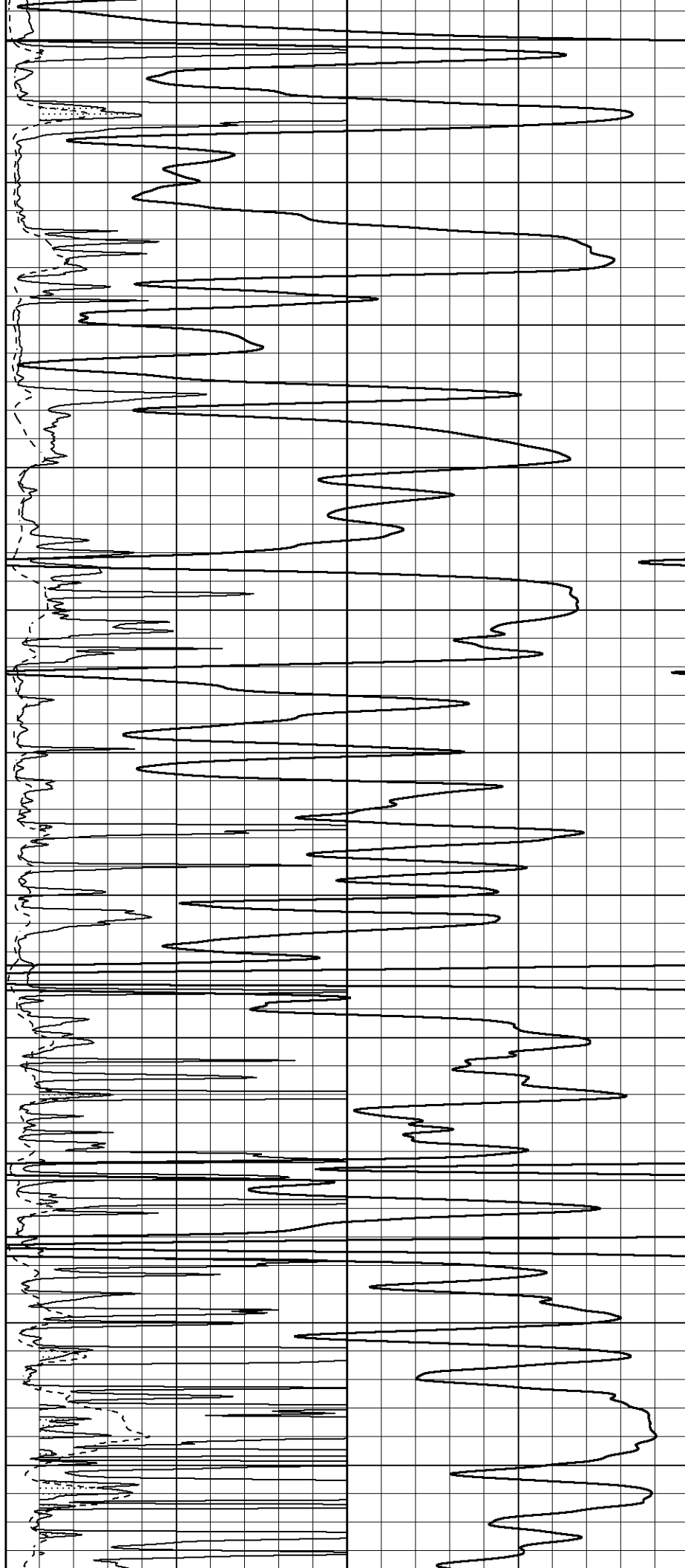
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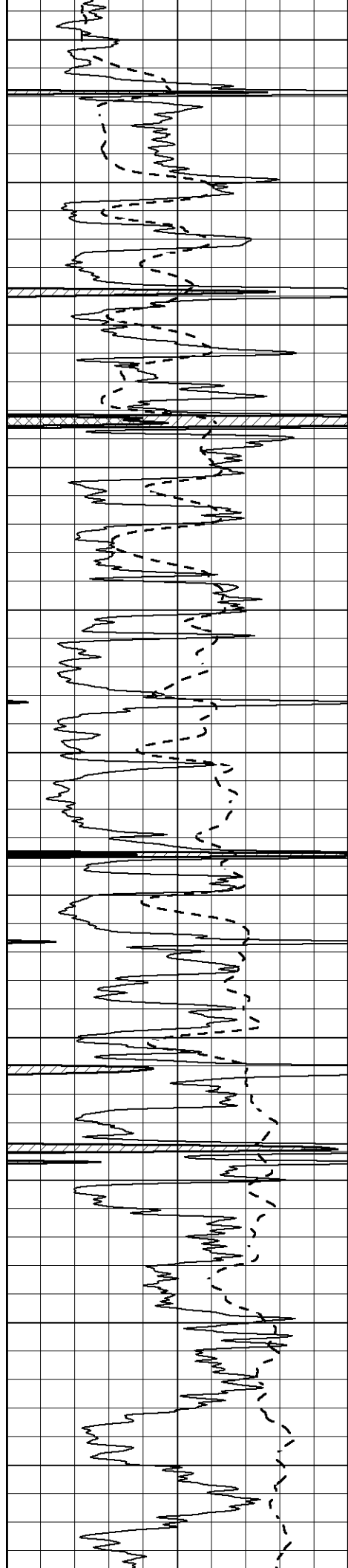
3550

3600

3650

3700





3750

3800

3850

3900

3950

4000

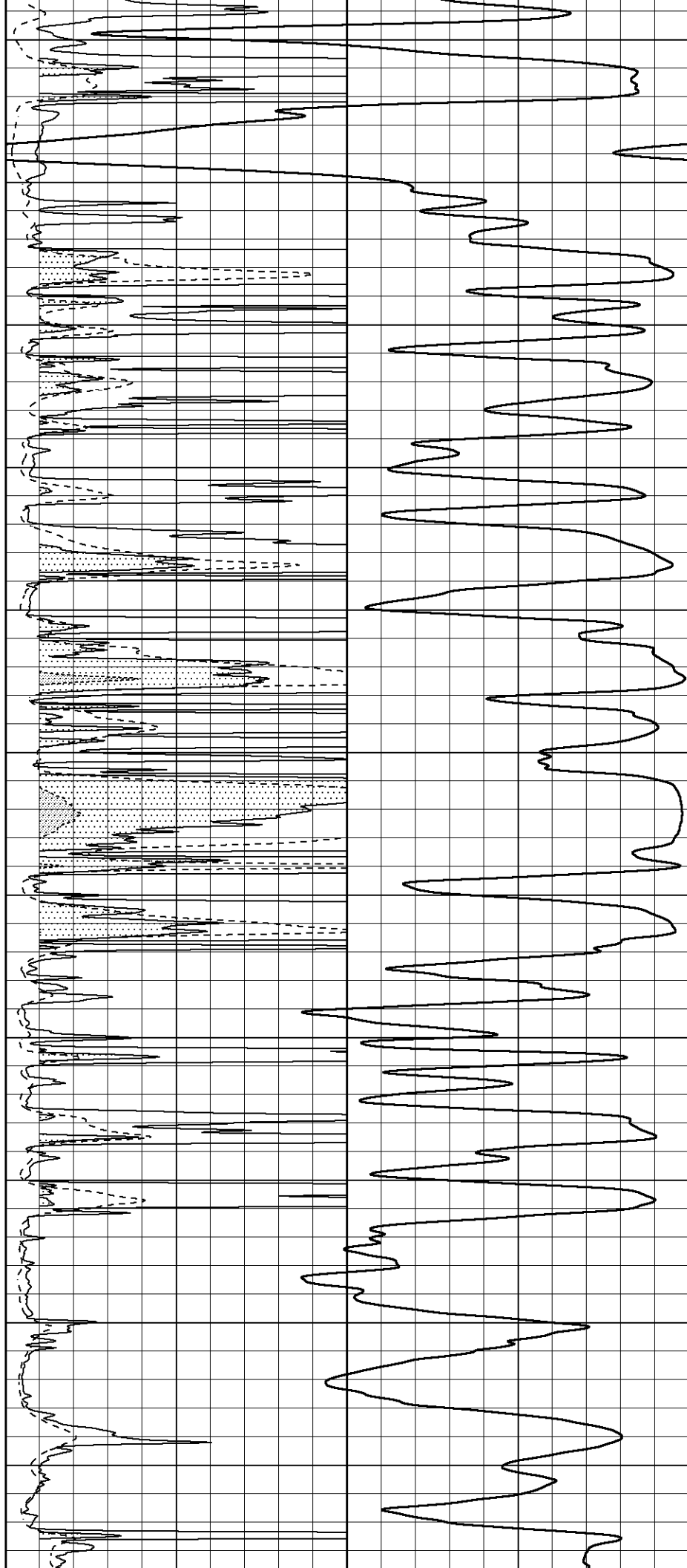
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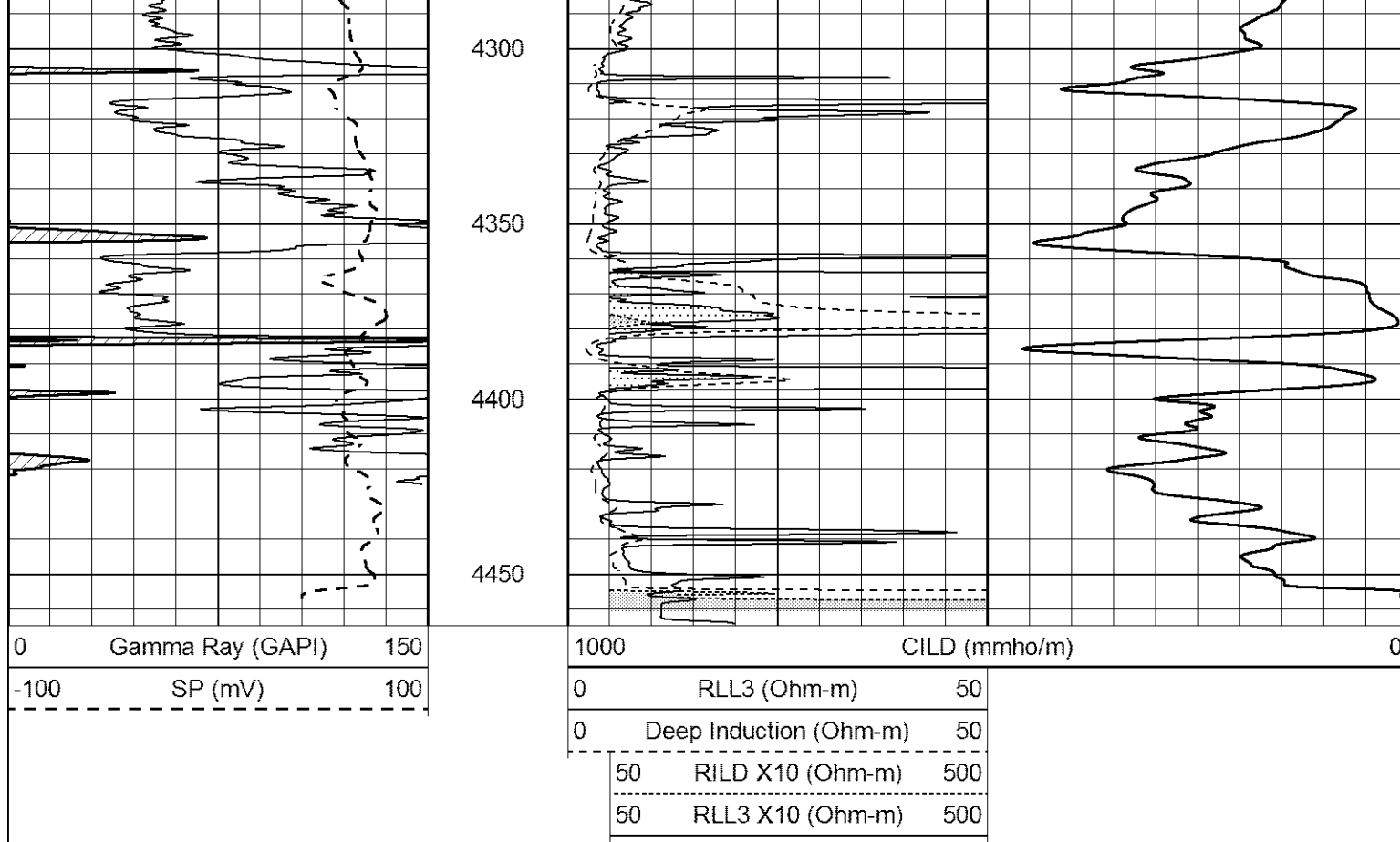
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4150

4200

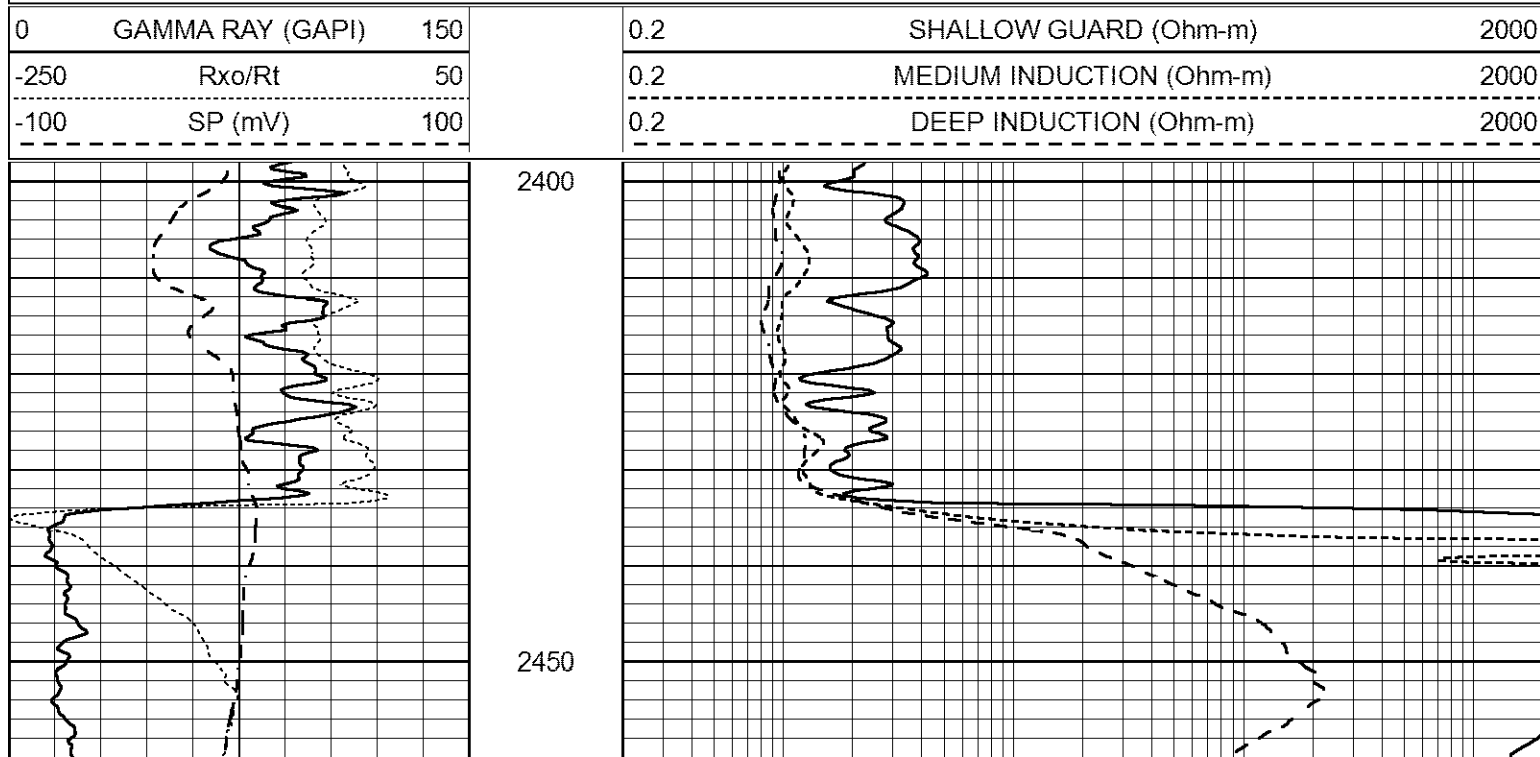
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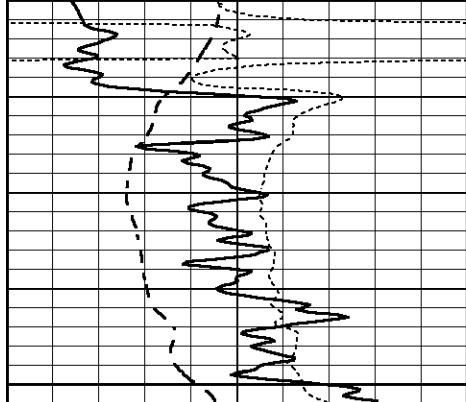




ANHYDRITE

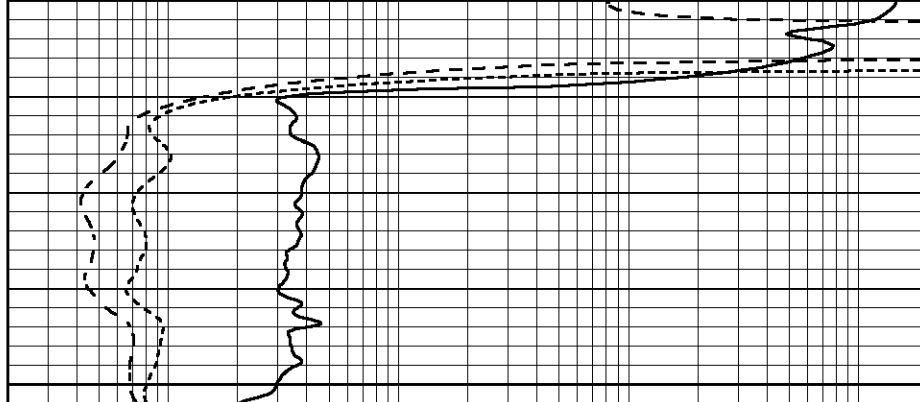
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 Dataset Pathname pass6.2
 Presentation Format _dil
 Dataset Creation Sat Feb 24 19:04:37 2018
 Charted by Depth in Feet scaled 1:240



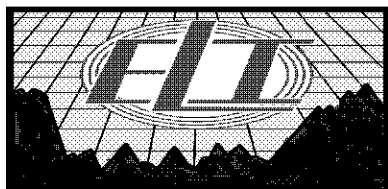


2500

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



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



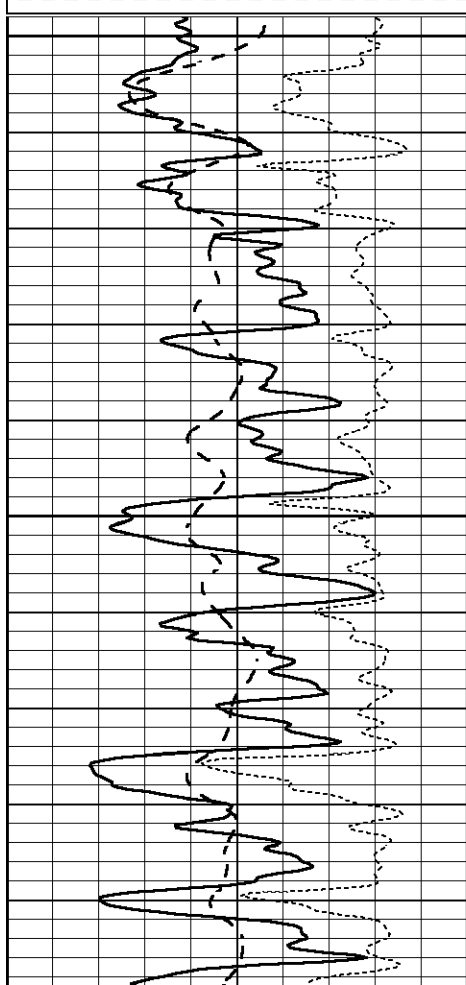
MAIN SECTION

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 Charted by Depth in Feet scaled 1:240

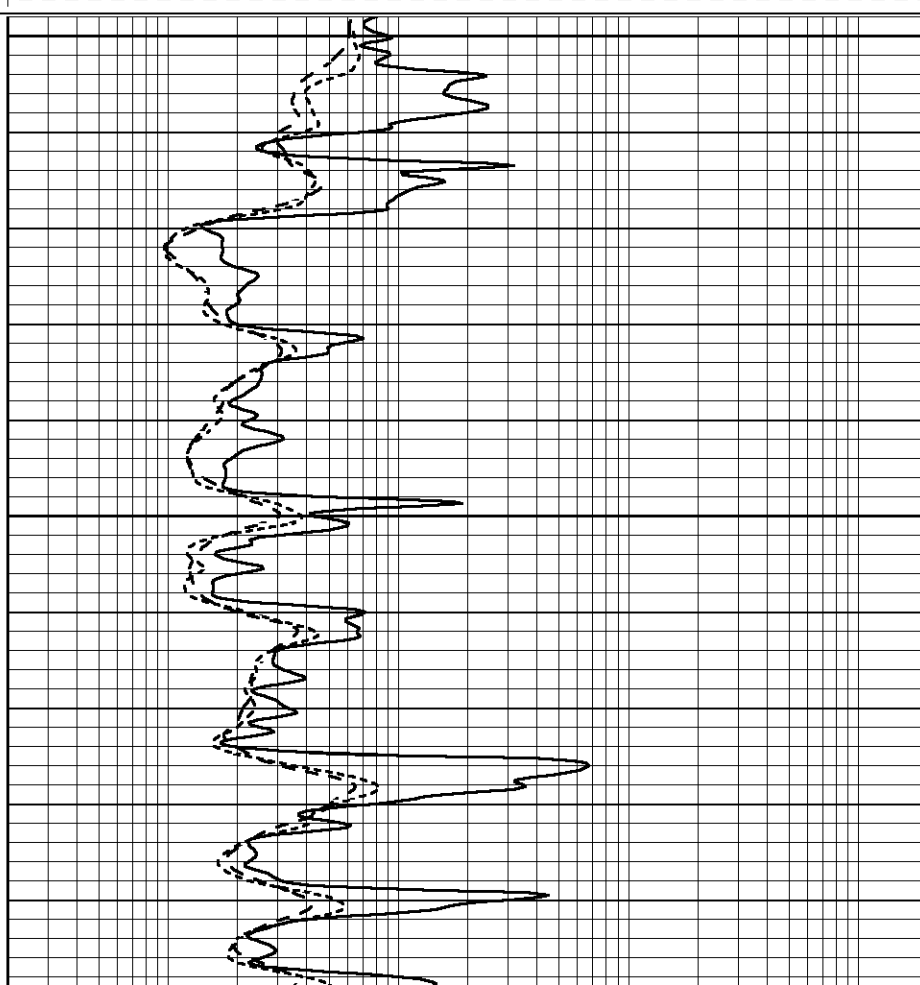
0	GAMMA RAY (GAPI)	150
-250	Rxo/Rt	50
-100	SP (mV)	100

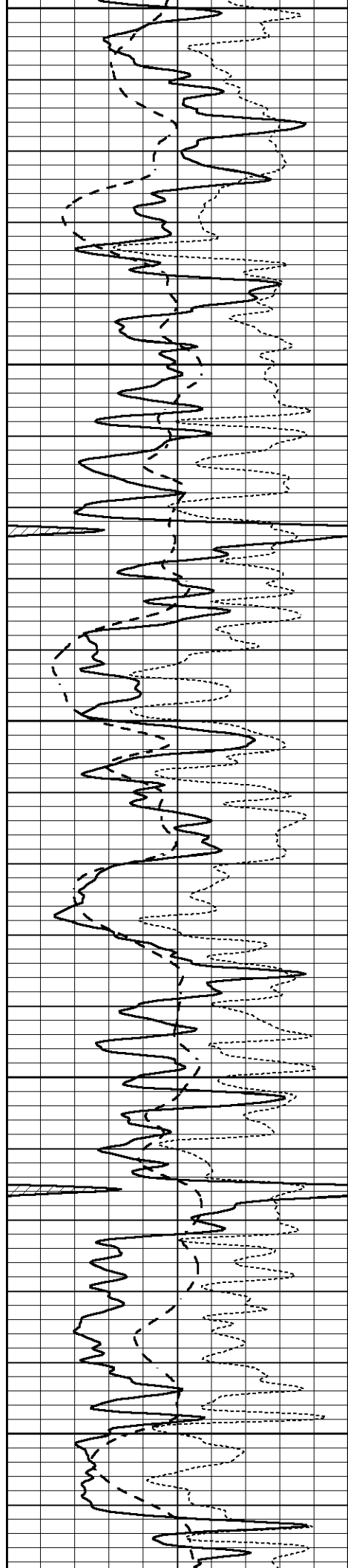
3400

3450



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





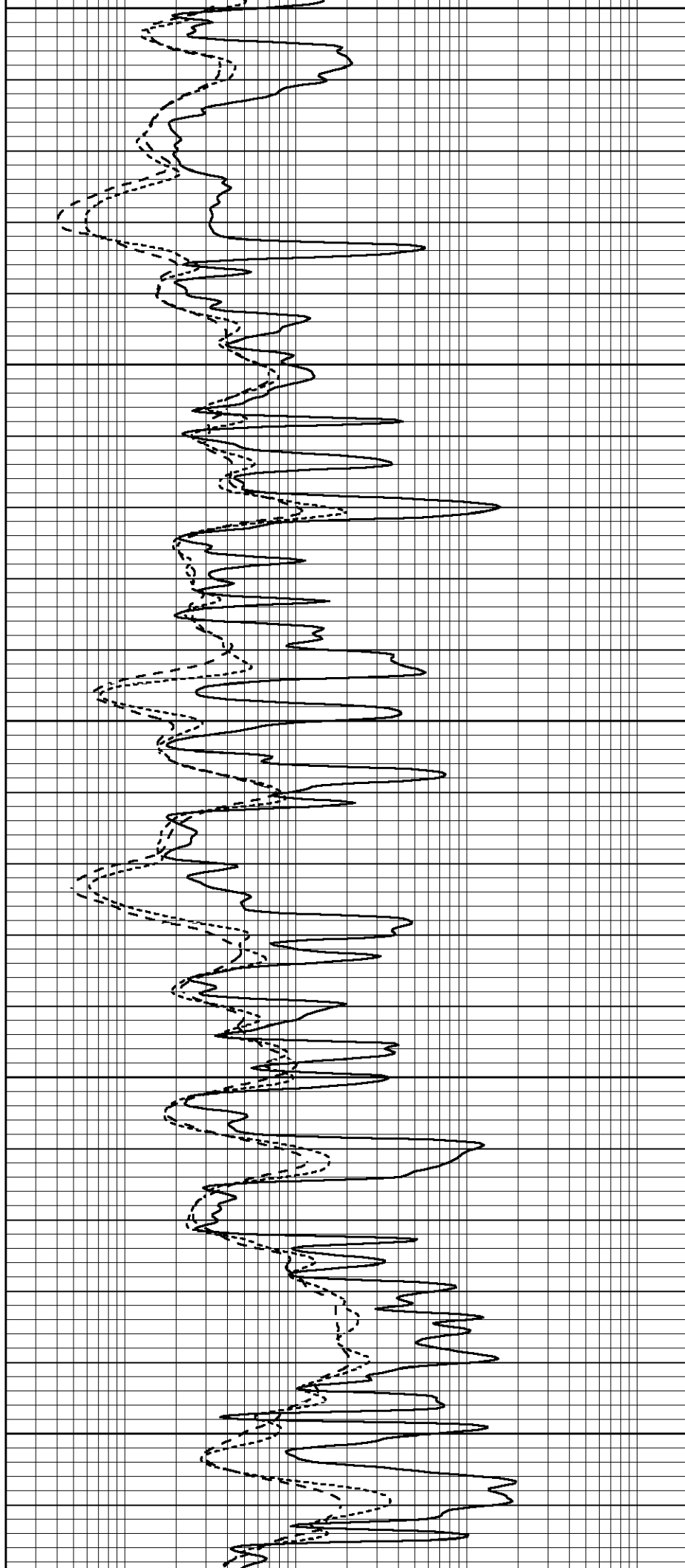
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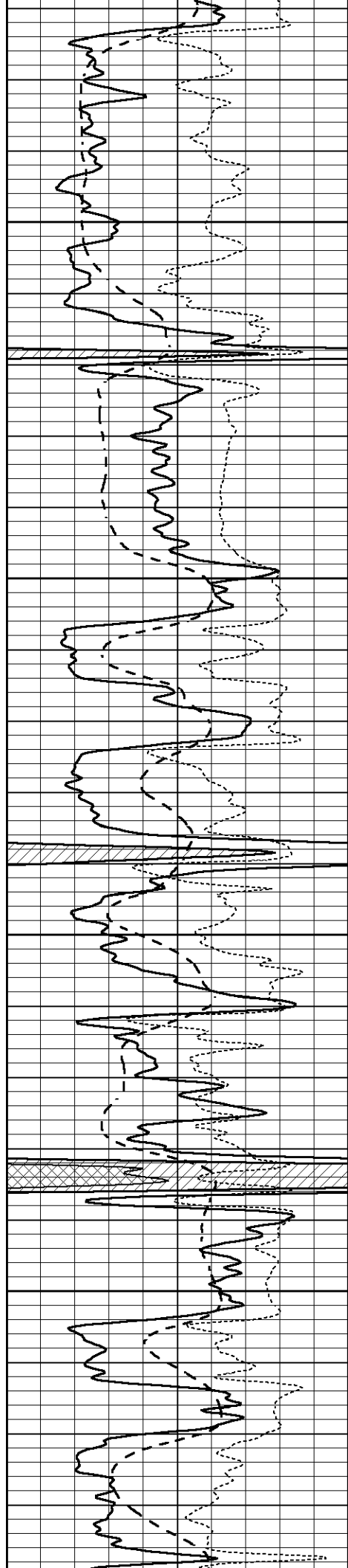
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3600

3650

3700



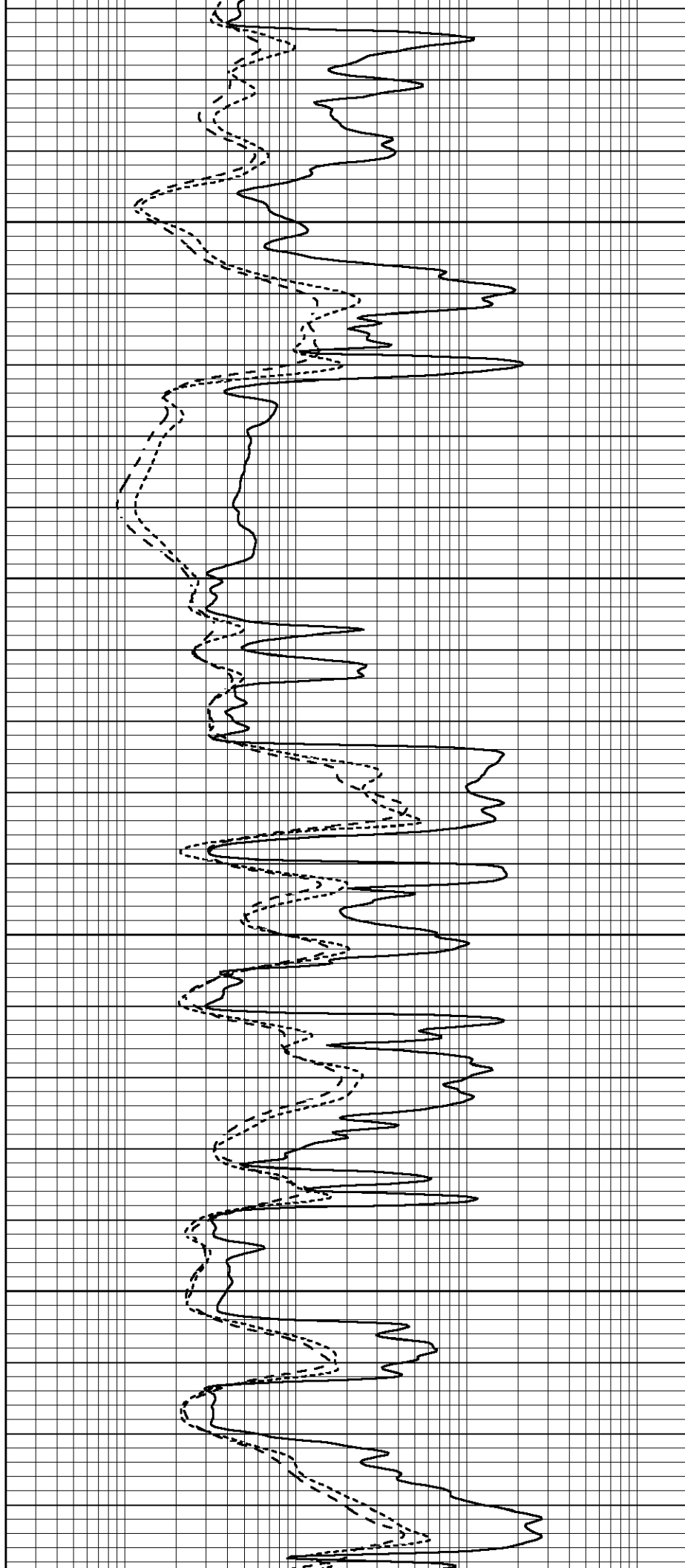


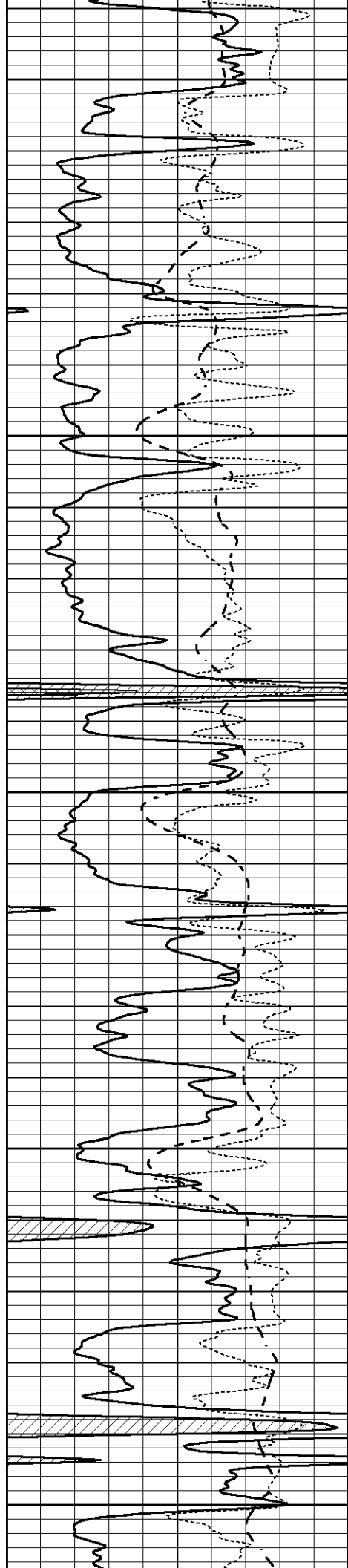
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3800

3850

3900





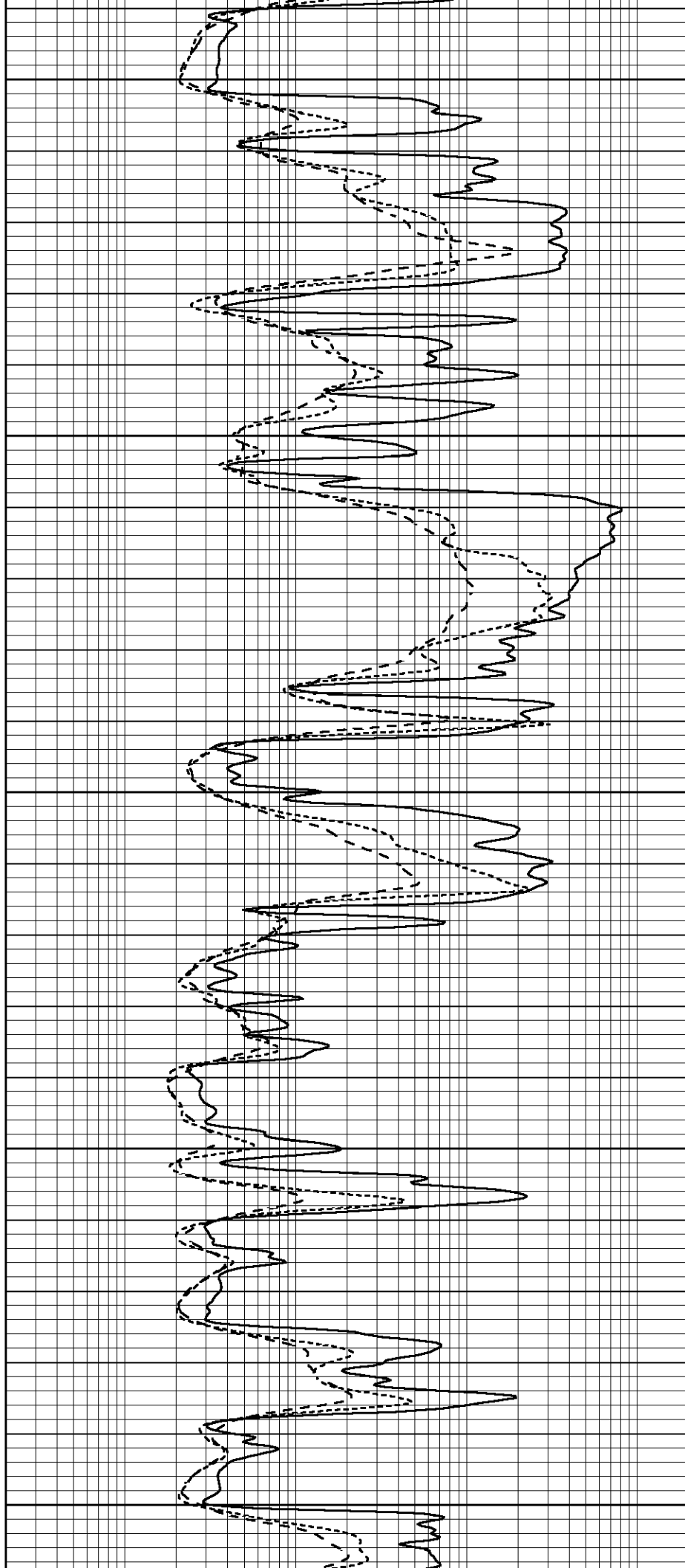
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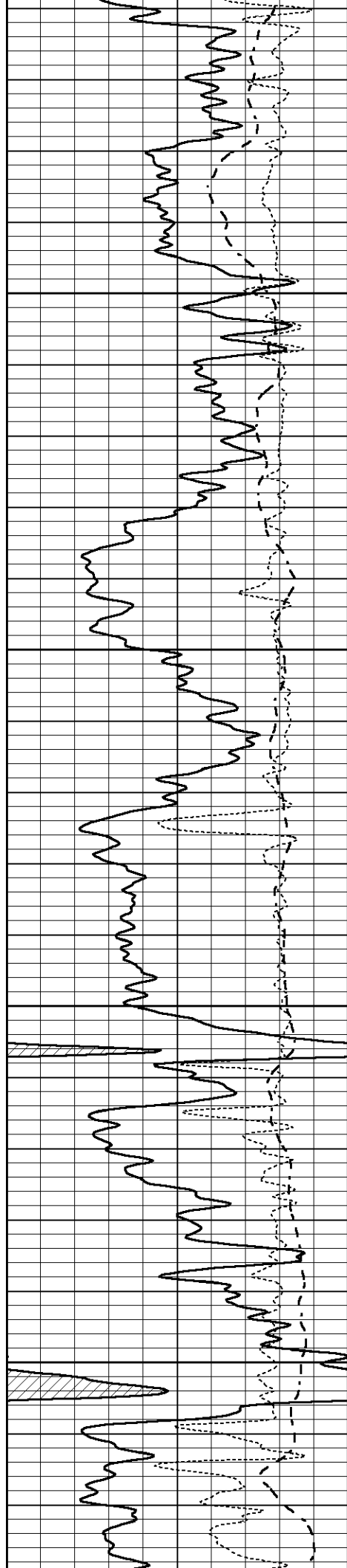
4000

4050

4100

4150



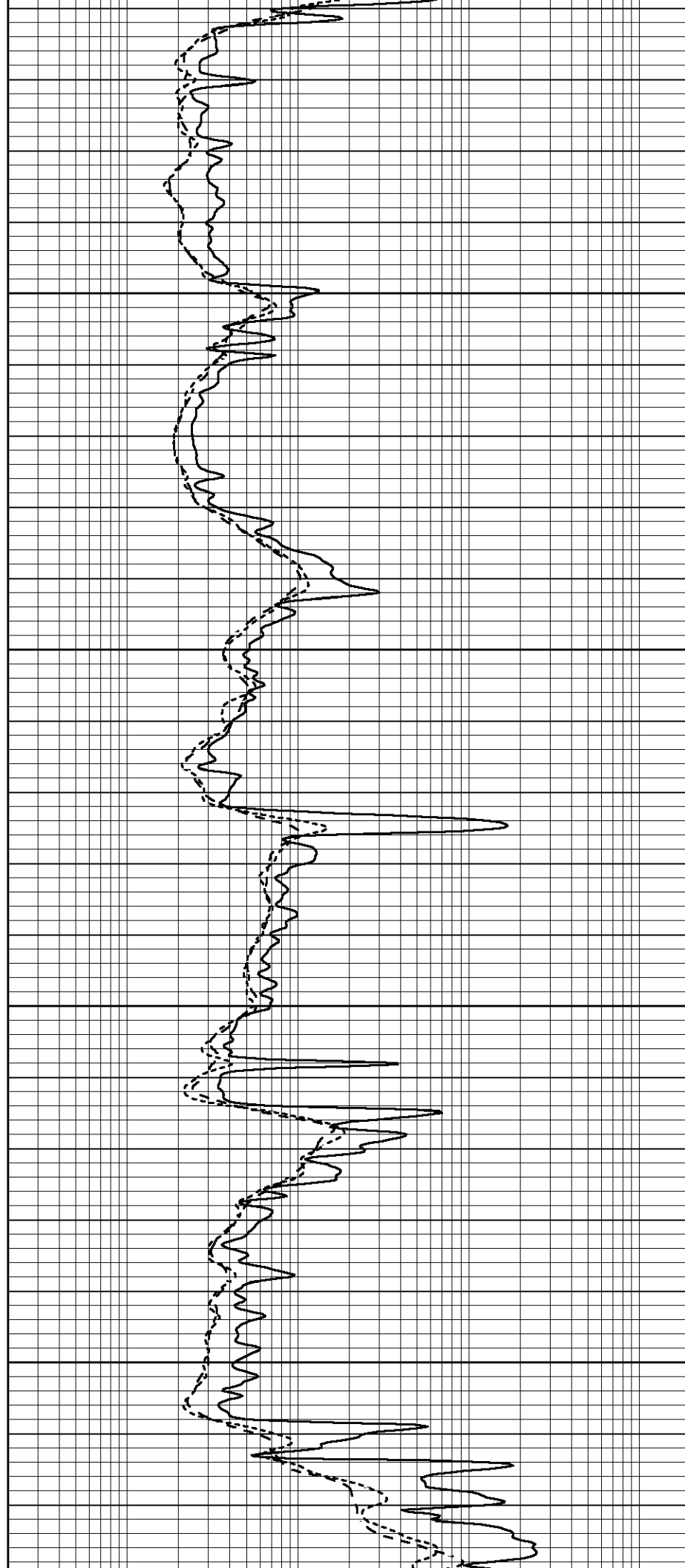


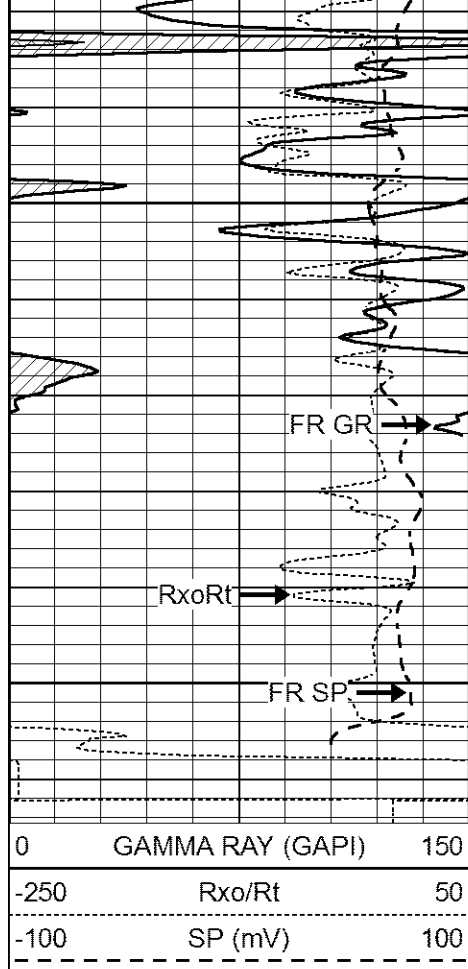
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4250

4300

4350

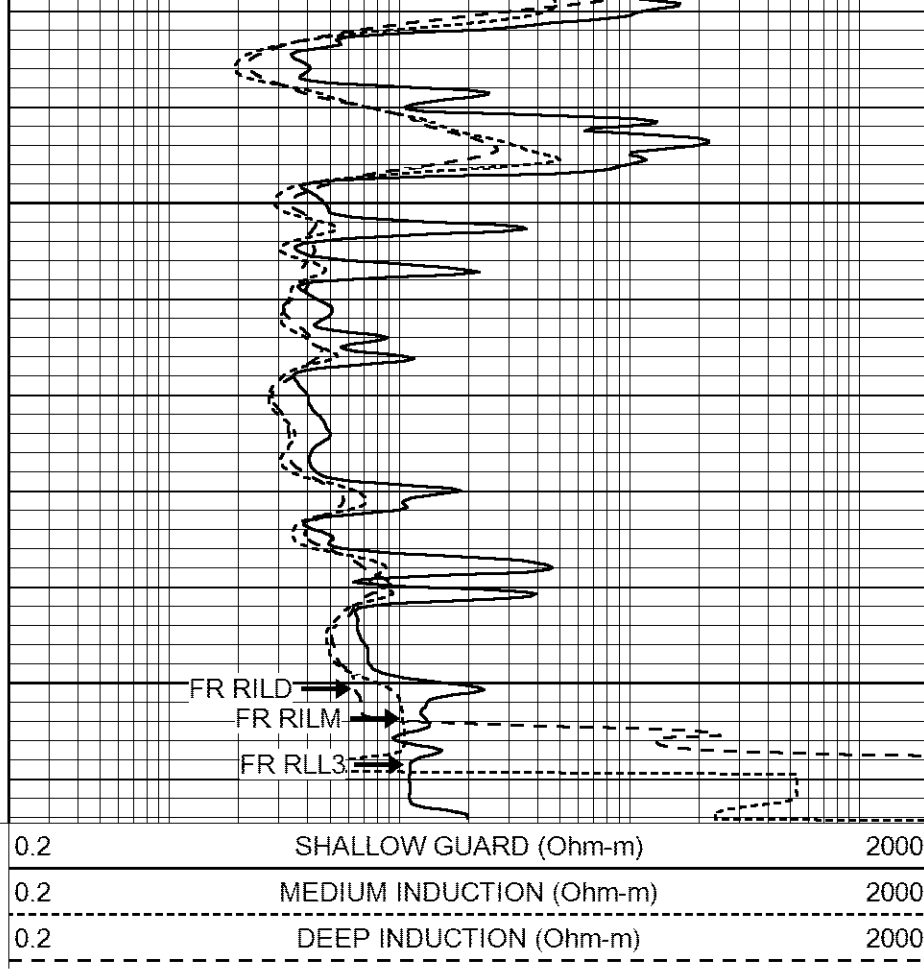




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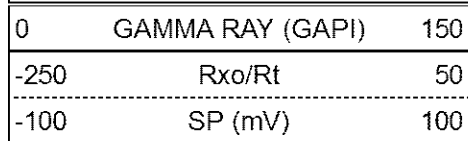
4450

LTD 4461

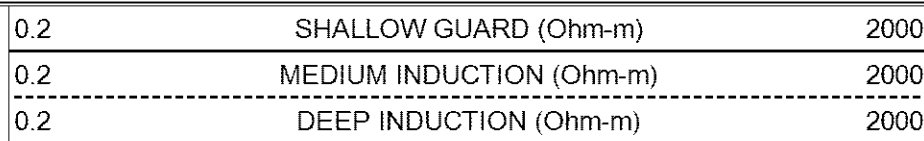


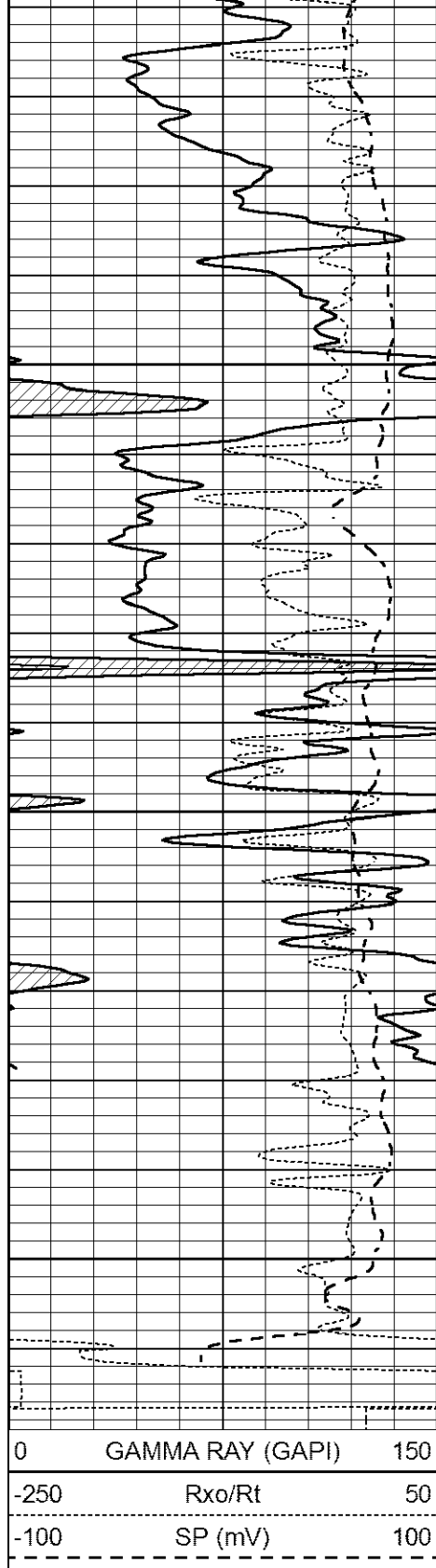
REPEAT SECTION

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 Presentation Format _dil
 Dataset Creation Sat Feb 24 18:45:47 2018
 Charted by Depth in Feet scaled 1:240



4300

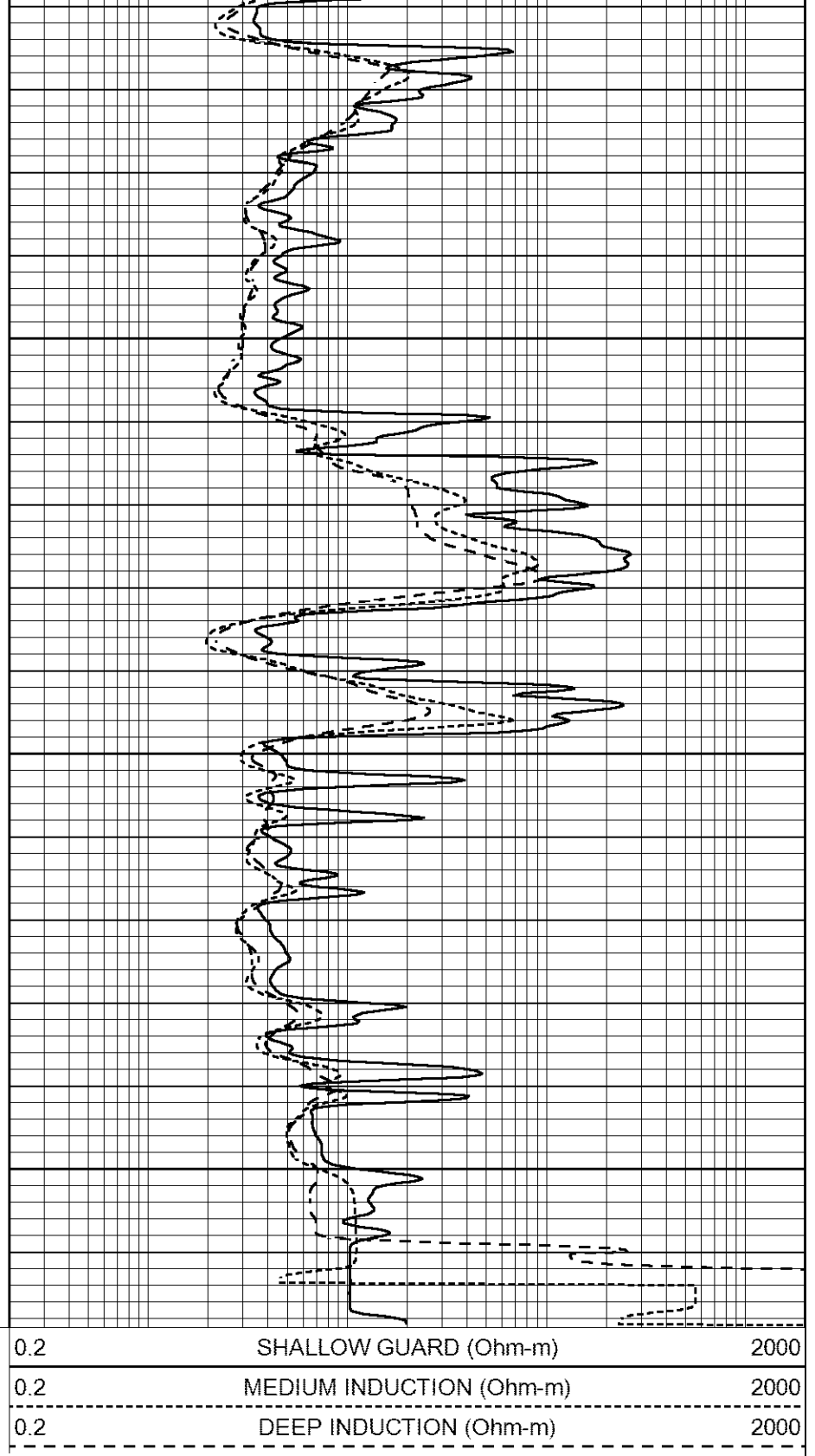




4350

4400

4450



Calibration Report

Database File 2365ddn8.db
 Dataset Pathname pass3.1
 Dataset Creation Sat Feb 24 18:45:47 2018

Dual Induction Calibration Report

Serial-Model:	FW1410-56-Probe
Surface Cal Performed:	Tue Jul 25 12:15:33 2017
Downhole Cal Performed:	Tue Jul 25 12:15:37 2017
After Survey Verification Performed:	Tue Jul 25 12:15:38 2017

Surface Calibration				Readings			References		Results	
Loop:	Air	Loop		Air	Loop				m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m			527.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m			567.187	32.510
Internal:	Zero	Cal		Zero	Cal				m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m			645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m			653.591	-7.532

Downhole Calibration				Readings			References		Results	
	Zero	Cal		Zero	Cal				m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m			1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m			1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m				
		0.001	V		20.000	Ohm-m				
		-7.085	V		5000.000	mmho-m				

After Survey Verification				Readings			Targets		Results	
	Zero	Cal		Zero	Cal				m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m			1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	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: Wed Feb 11 18:53:41 2015			
	Background	Aluminum	Magnesium				
Window 1	613.01	6027.40	27508.60	cps			
Window 2	48.21	1424.77	7132.66	cps			
Window 4	266.48	1373.19	5767.15	cps			
Window 5	622.07	10090.30	18937.90	cps			
Window 6	49.07	1682.84	3271.18	cps			
Window 8	298.04	3248.38	5980.58	cps			
Bulk Density	-	2.6020	1.6830	g/cc			
Pe	-	3.0000	2.5070	b/e			
LS Alpha:	: -1.8451	SS Alpha:	: -0.7542	LS CPE:		: 1.0882	
LS Beta:	: 138648.8473	SS Beta:	: 21960.9250	SS CPE:		: 1.5181	

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: Wed Feb 11 18:53:41 2015		
Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
1107.5	7124.1	8.0	15.0	0.0	6.3

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:		070558			
Tool Model:		Probe1			
Performed:		Tue Jul 25 12:16:33 2017			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.4000	GAPI/cps		