



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#4 JOSEPH		
Field	ANTELOPE RIDGE		
County	GOVE	State	KANSAS
Location:	AP1 # : 15-063-22185-0000		Other Services
SEC 30 TWP 15S RGE 31W		CDL/CNL	
1200' FNL & 600' FEL			
Permanent Datum	GROUND LEVEL	Elevation	2868
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 2876	
Drilling Measured From	KELLY BUSHING	D.F. 2874	
		G.L. 2868	
Date	3/16/14		
Run Number	ONE		
Depth Driller	4575		
Depth Logger	4578		
Bottom Logged Interval	4576		
Top Log Interval	00		
Casing Driller	8 5/8" @ 222		
Casing Logger			
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4100 PPM	
Density / Viscosity	9.1/48		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.70 @ 78F		
Rmt @ Meas. Temp	.52 @ 78F		
Rmc @ Meas. Temp	.84 @ 78F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.45 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	8:45 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	BOB PETERSON		

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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 NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
OAKLEY, KS. - 11 SOUTH TO GOVE RD. - 3 EAST - 4 SOUTH - WEST INTO



NABORS
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MAIN SECTION

Database File:

24013ddn.db

Dataset Pathname:

pass3.1

Presentation Format:

_dil

Dataset Creation:

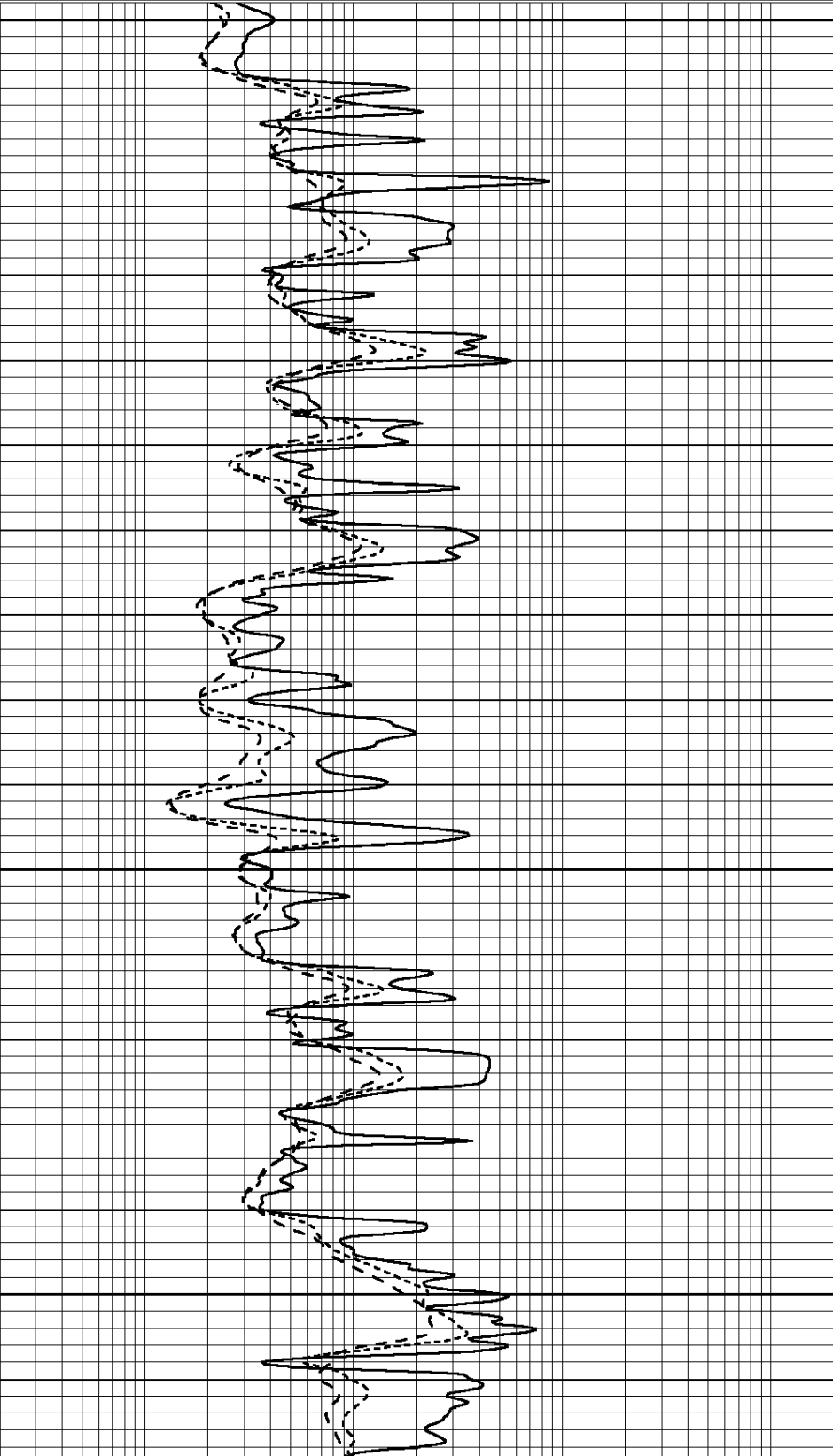
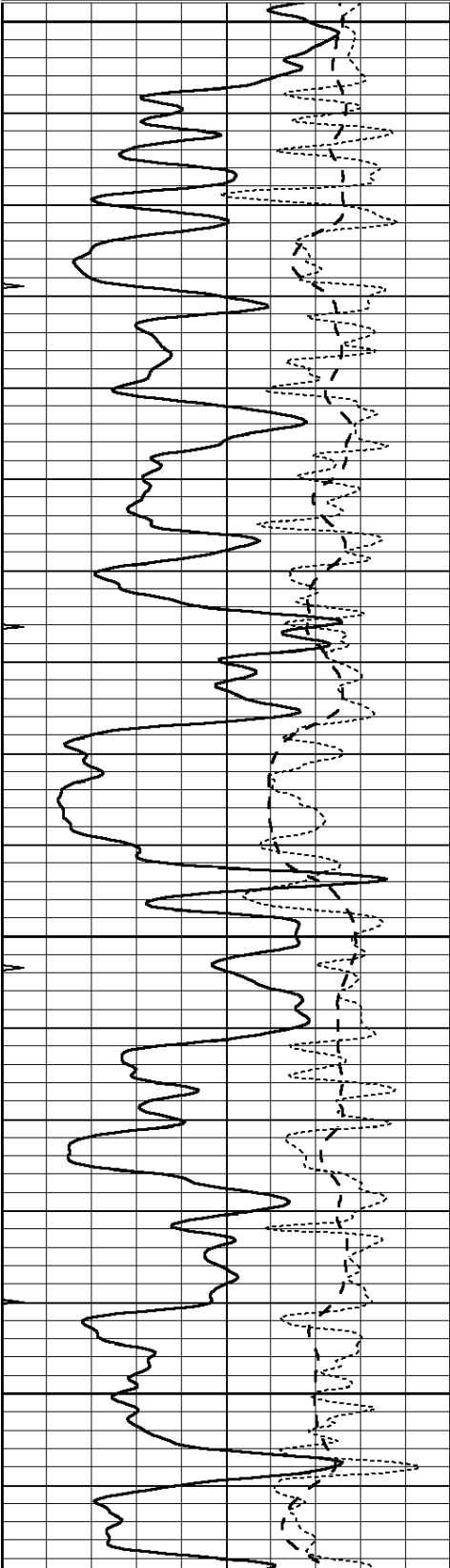
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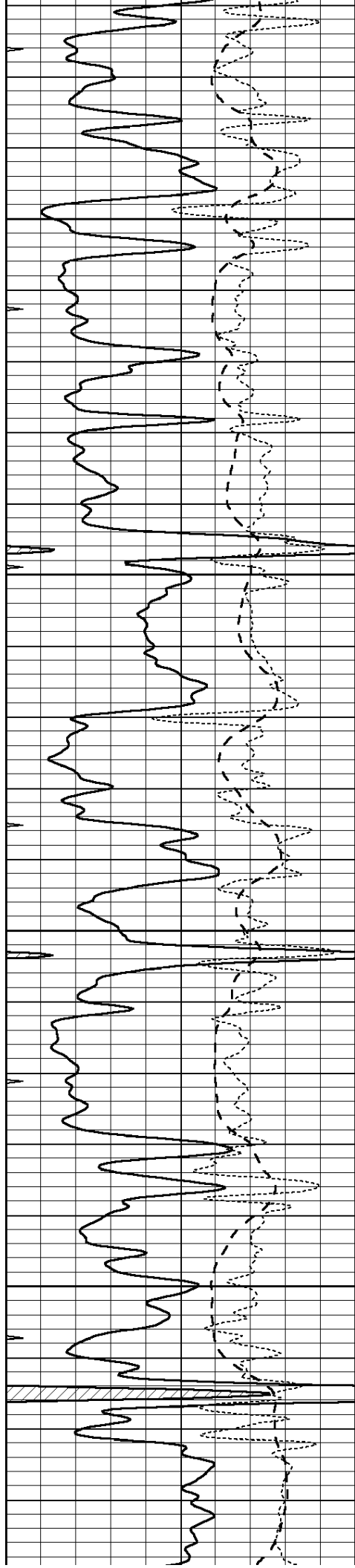
Charted by:

Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



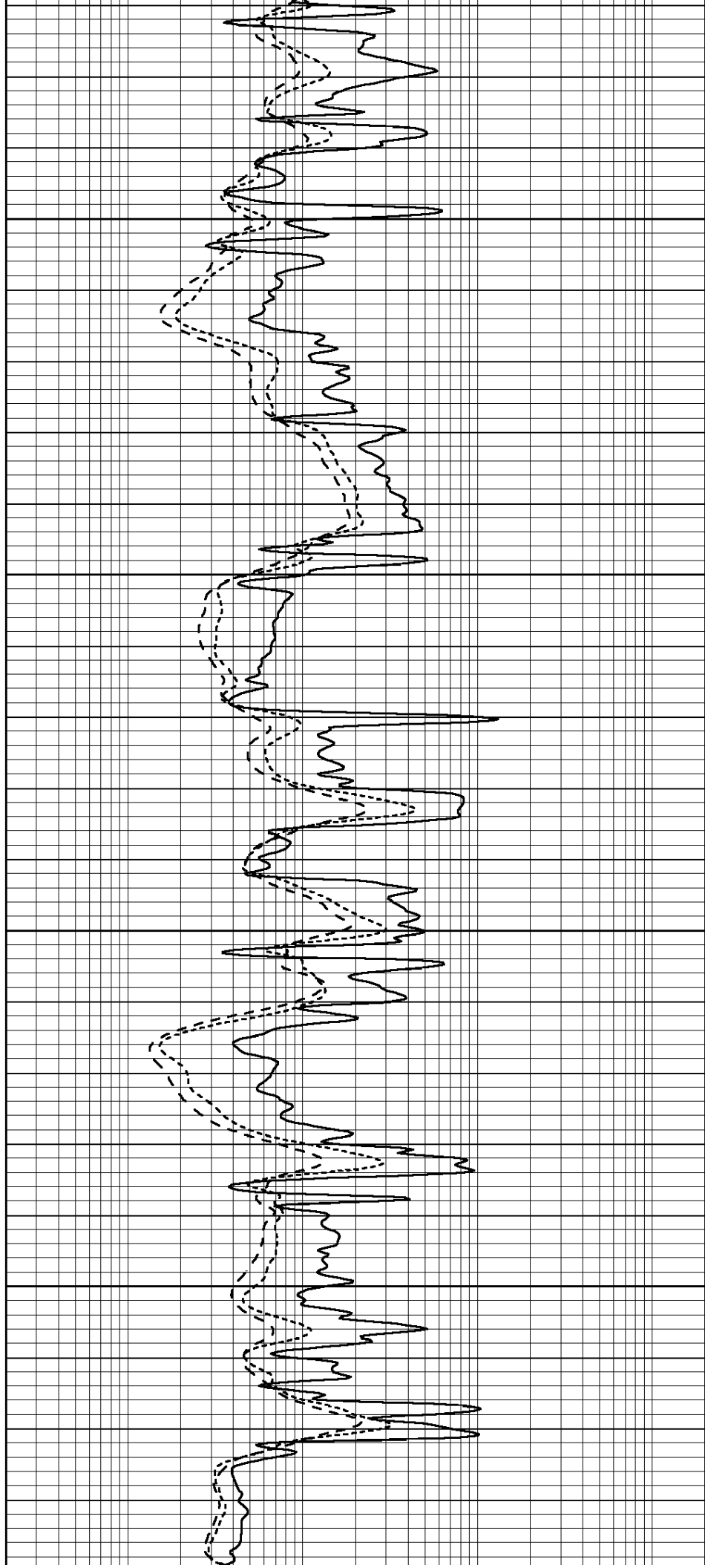


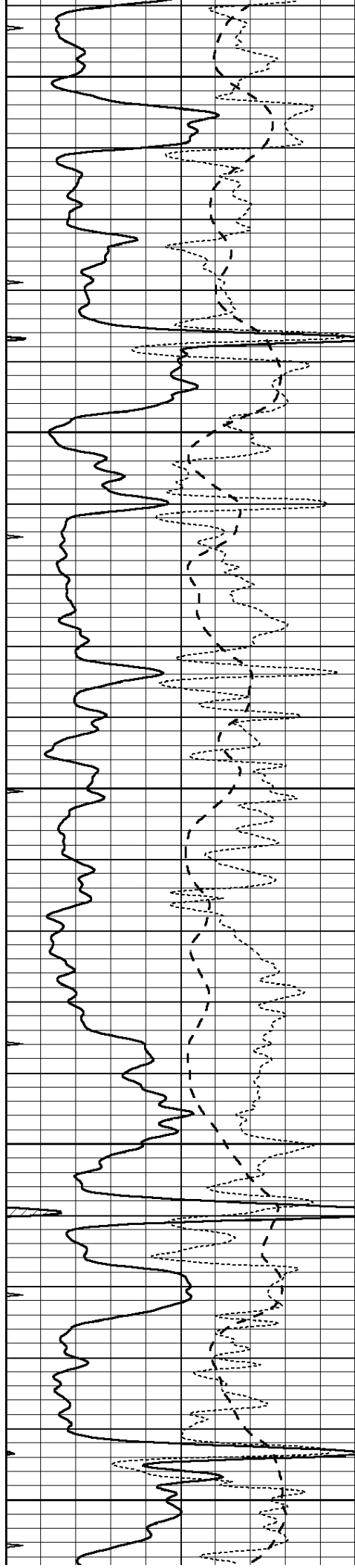
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3750

3800

3850





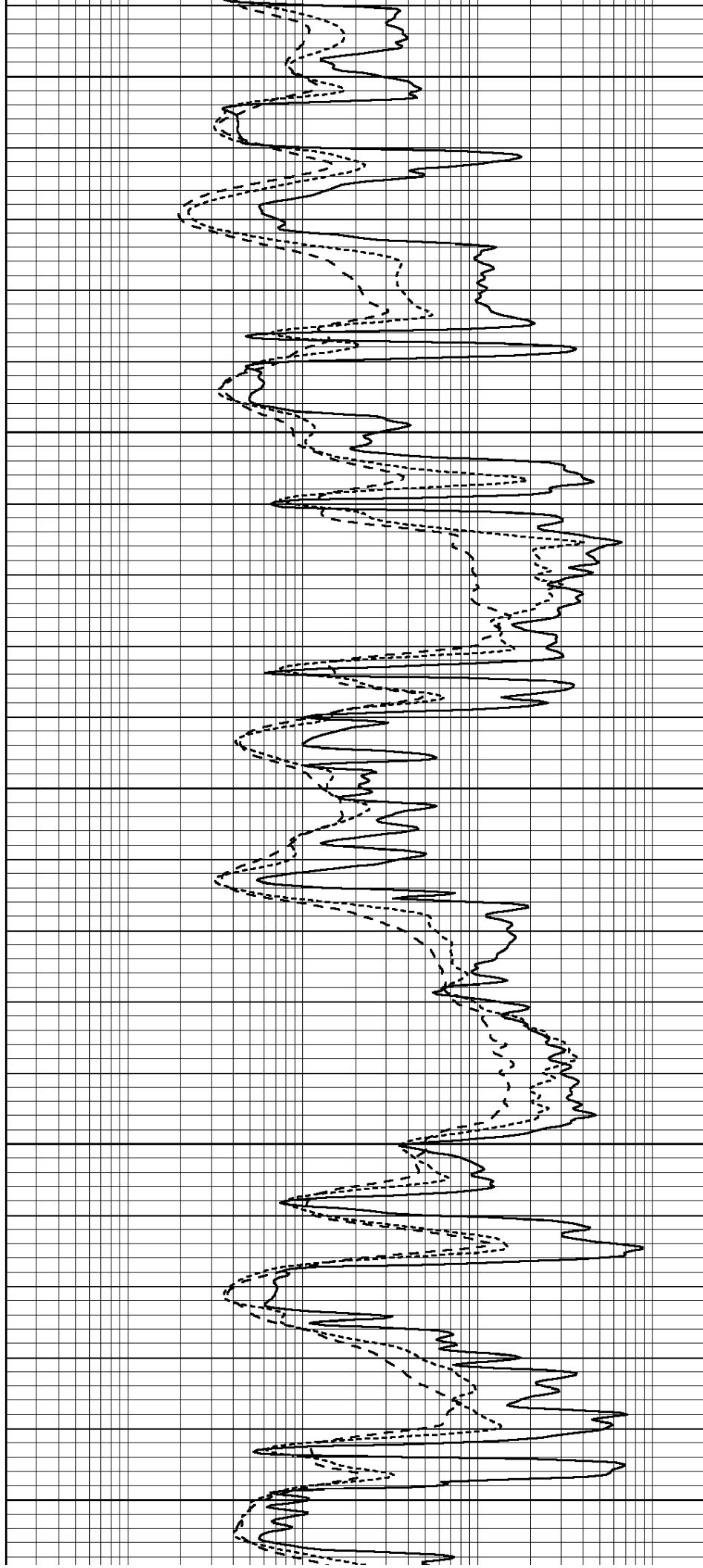
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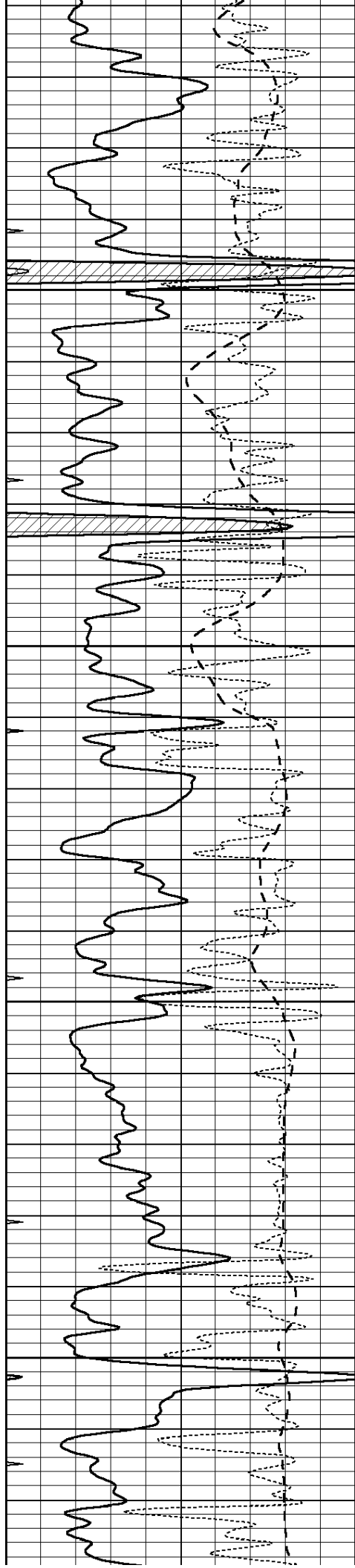
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4000

4050

4100



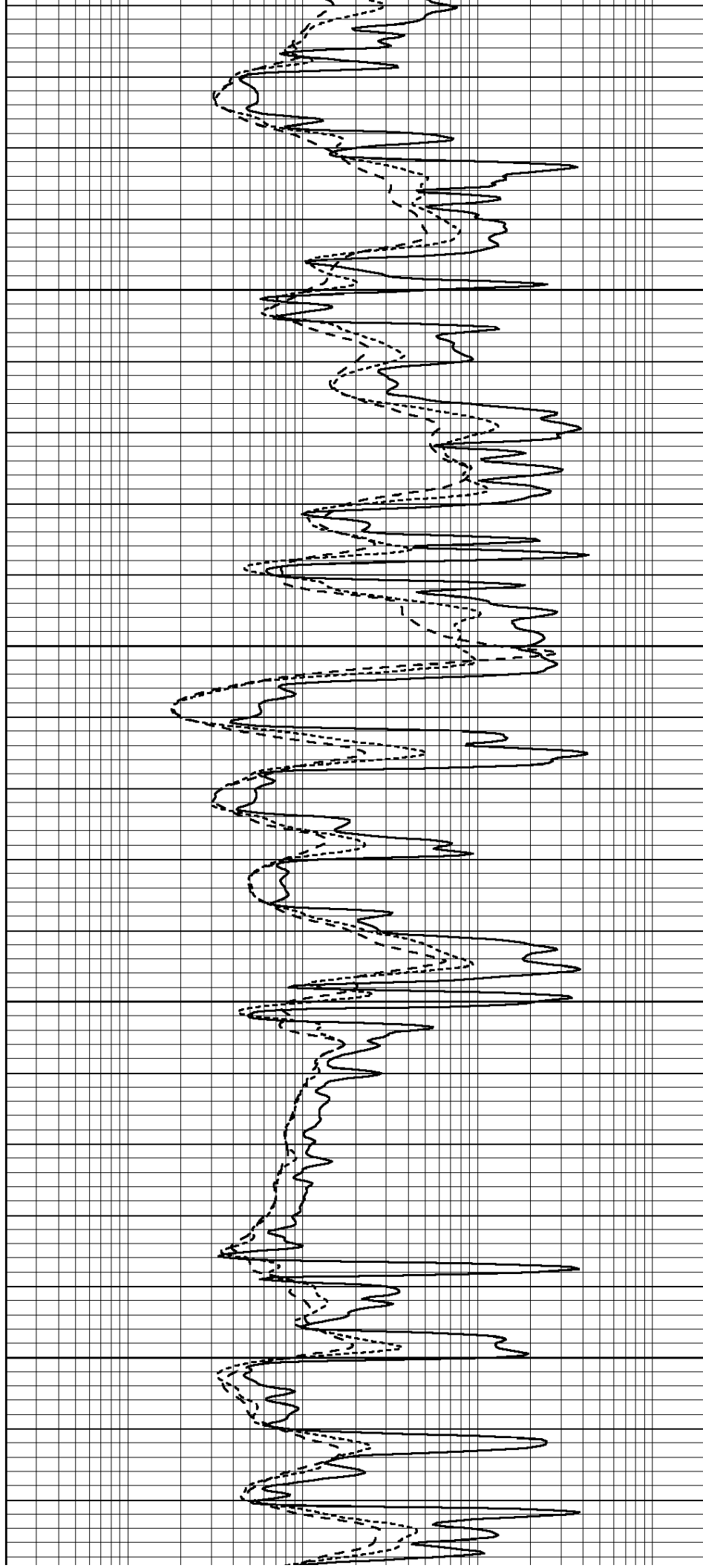


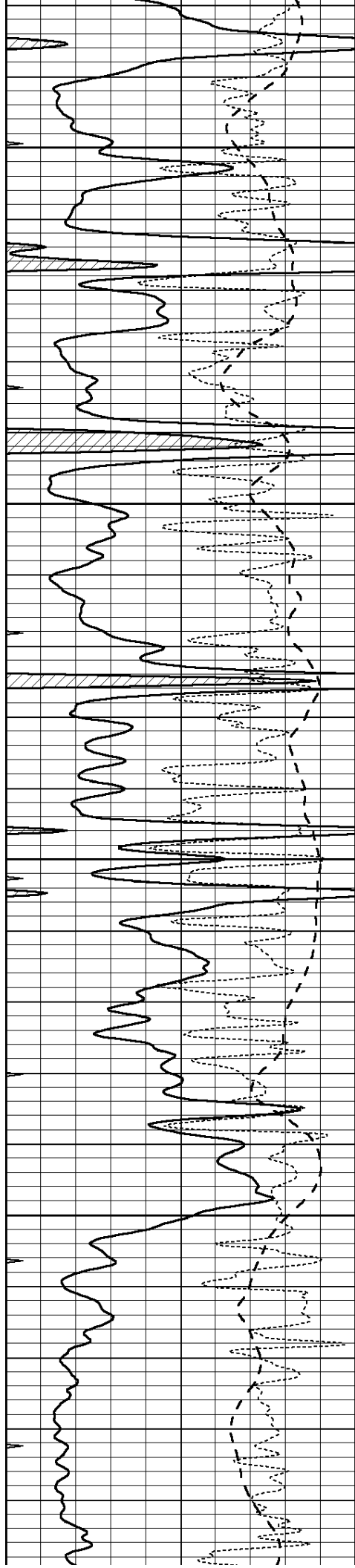
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4250

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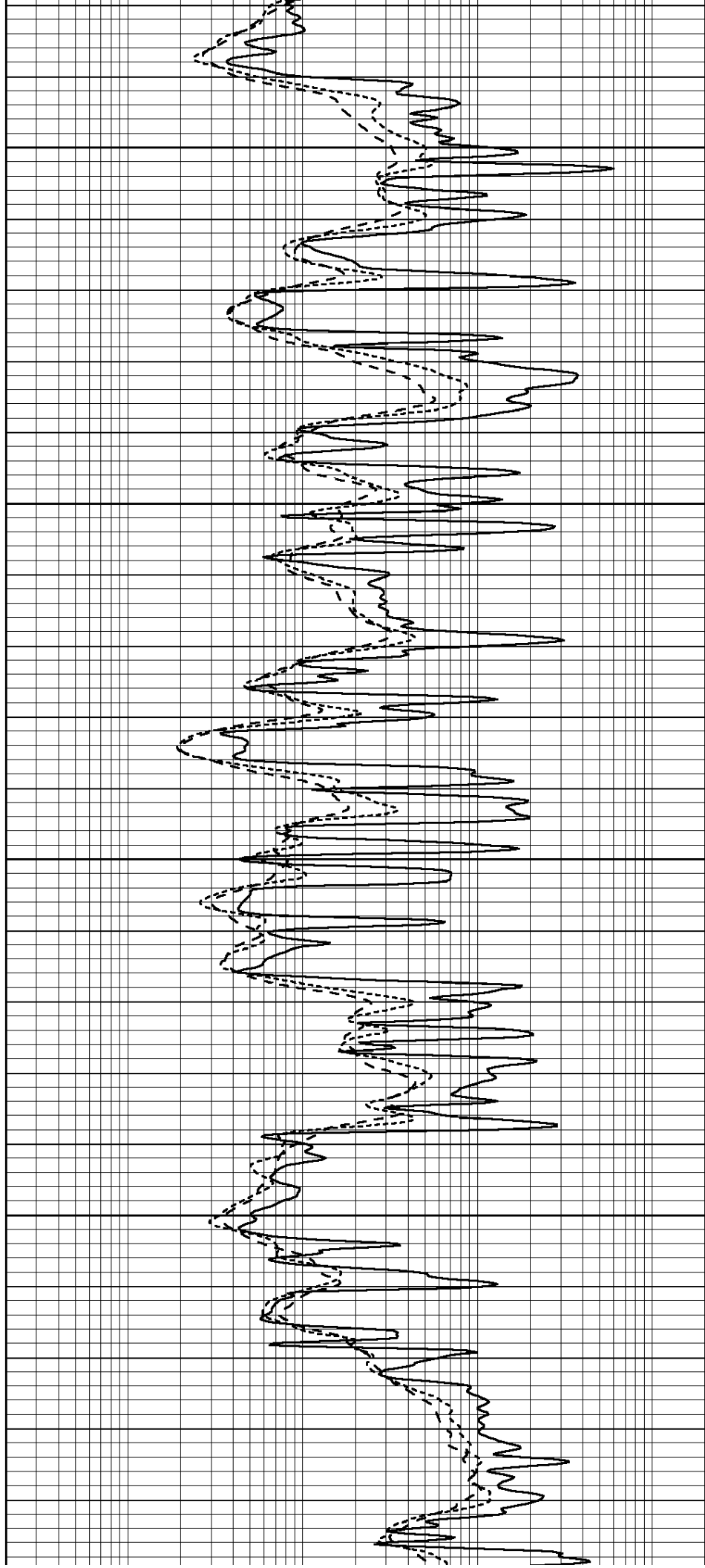


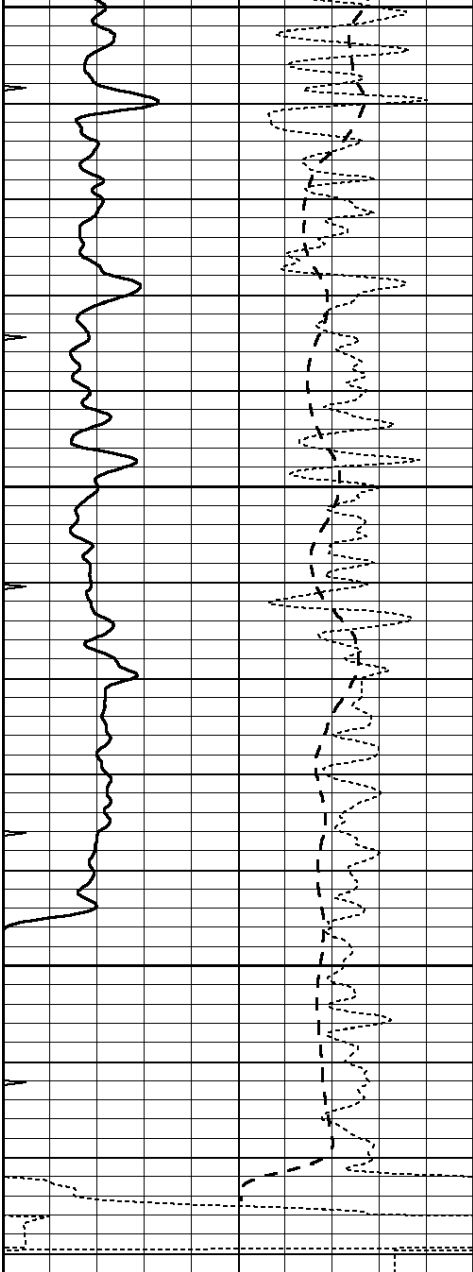
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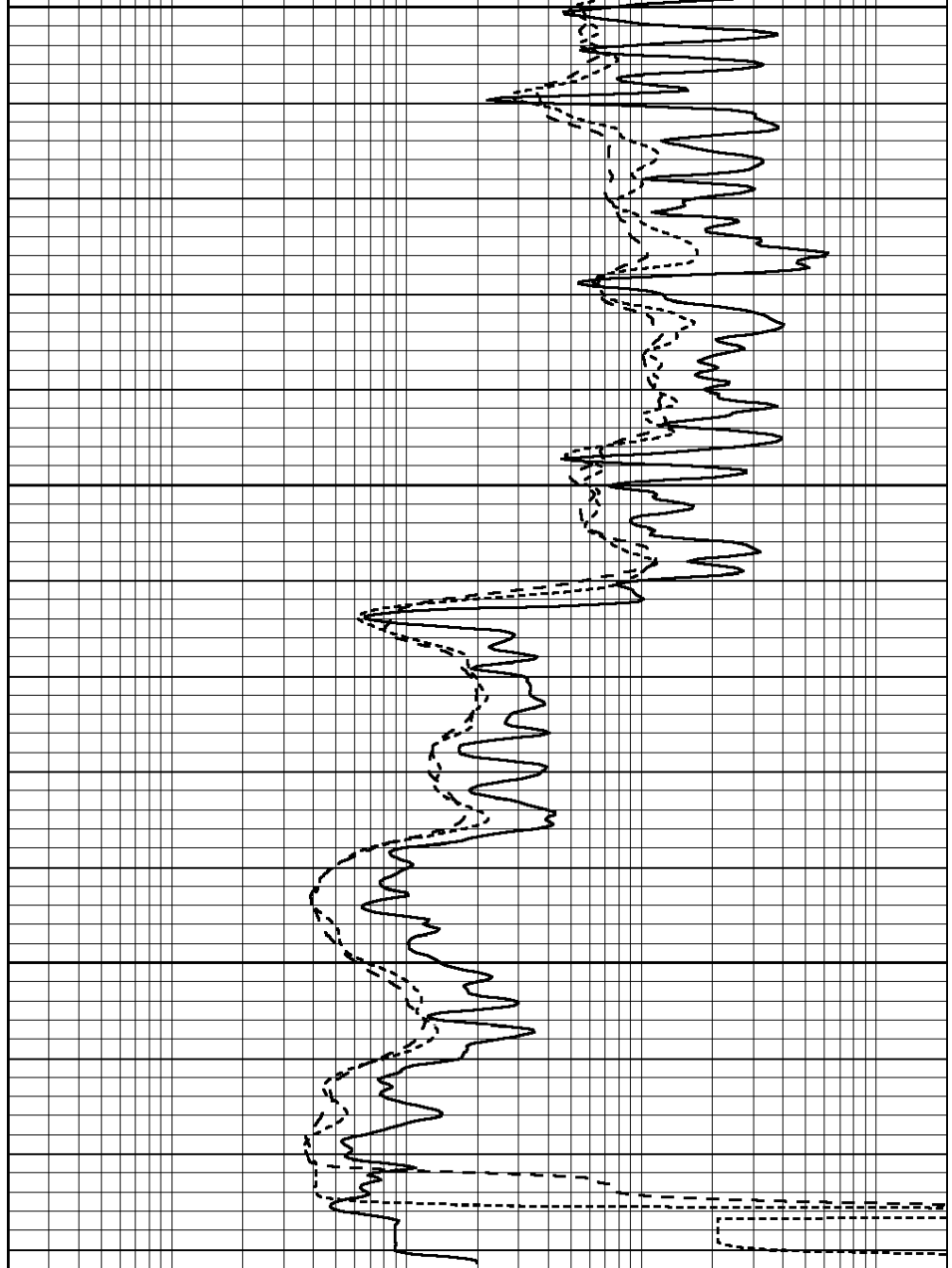


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

4550

4600

4650



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