

**NABORS****COMPLETION
& PRODUCTION
SERVICES CO.****DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.	
Well	NV REAL ESTATE #1	
Field	WILDCAT	
County	PAWNEE	State KANSAS
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Field	WILDCAT	
County	PAWNEE	State KANSAS
Location:	API # : 15-145-21772-00-00 1980' FNL & 630' FEL SE - NE	Other Services CDL/CNL
Permanent Datum	GROUND LEVEL	Elevation 2082
Log Measured From	KELLY BUSHING 9' A.G.L.	K.B. 2091 D.F. 2089 G.L. 2082
Drilling Measured From	KELLY BUSHING	
SEC 18	TWP 21S	RGE 18W
Date	7/9/14	
Run Number	ONE	
Depth Driller	4710	
Depth Logger	4713	
Bottom Logged Interval	4711	
Top Log Interval	00	
Casing Driller	8 5/8" @ 1176	
Casing Logger		
Bit Size	7 7/8"	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM
Density / Viscosity	9.4/54	
pH / Fluid Loss	8.5/11.2	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	.75 @ 97F	
Rmt @ Meas. Temp	.56 @ 97F	
Rmc @ Meas. Temp	.90 @ 97F	
Source of Rmt / Rmc	MEASUREMENT	
Rm @ BHT	.60 @ 122F	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom		
Maximum Recorded Temperature	122F	
Equipment Number	4010	
Location	HAYS, KANSAS	
Recorded By	IAN MABB	
Witnessed By	MIKE ENGELBRECHT	

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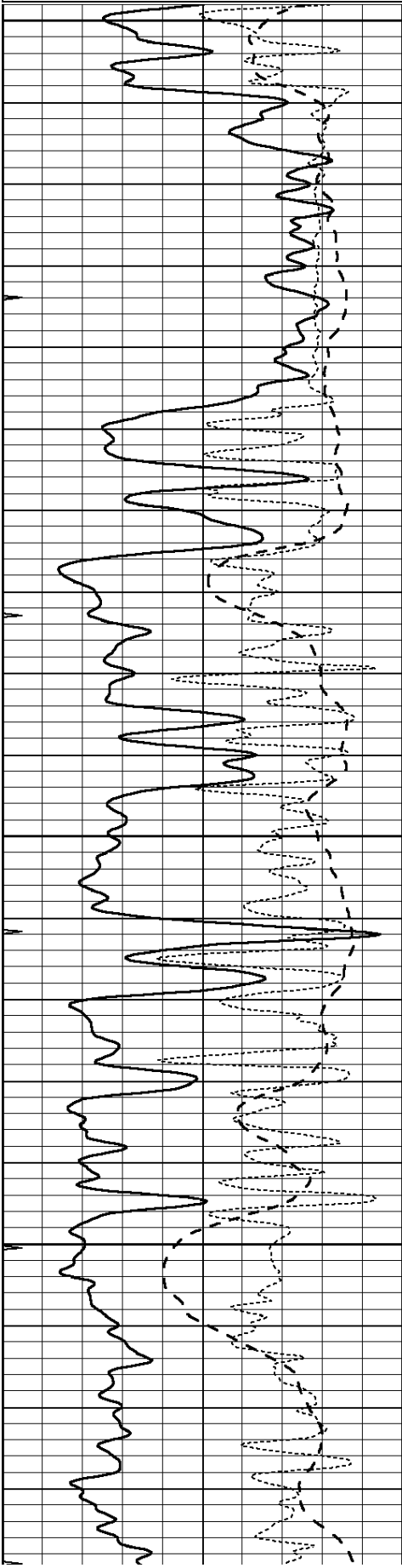
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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:
HWY 156 & 183 - NORTH 3 MILES TO RD. R - WEST 1 1/2 MILE - SOUTH INTO

Database File: 24647ddn.db
Dataset Pathname: pass3.1.3
Presentation Format: _dil
Dataset Creation: Wed Jul 09 13:59:26 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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



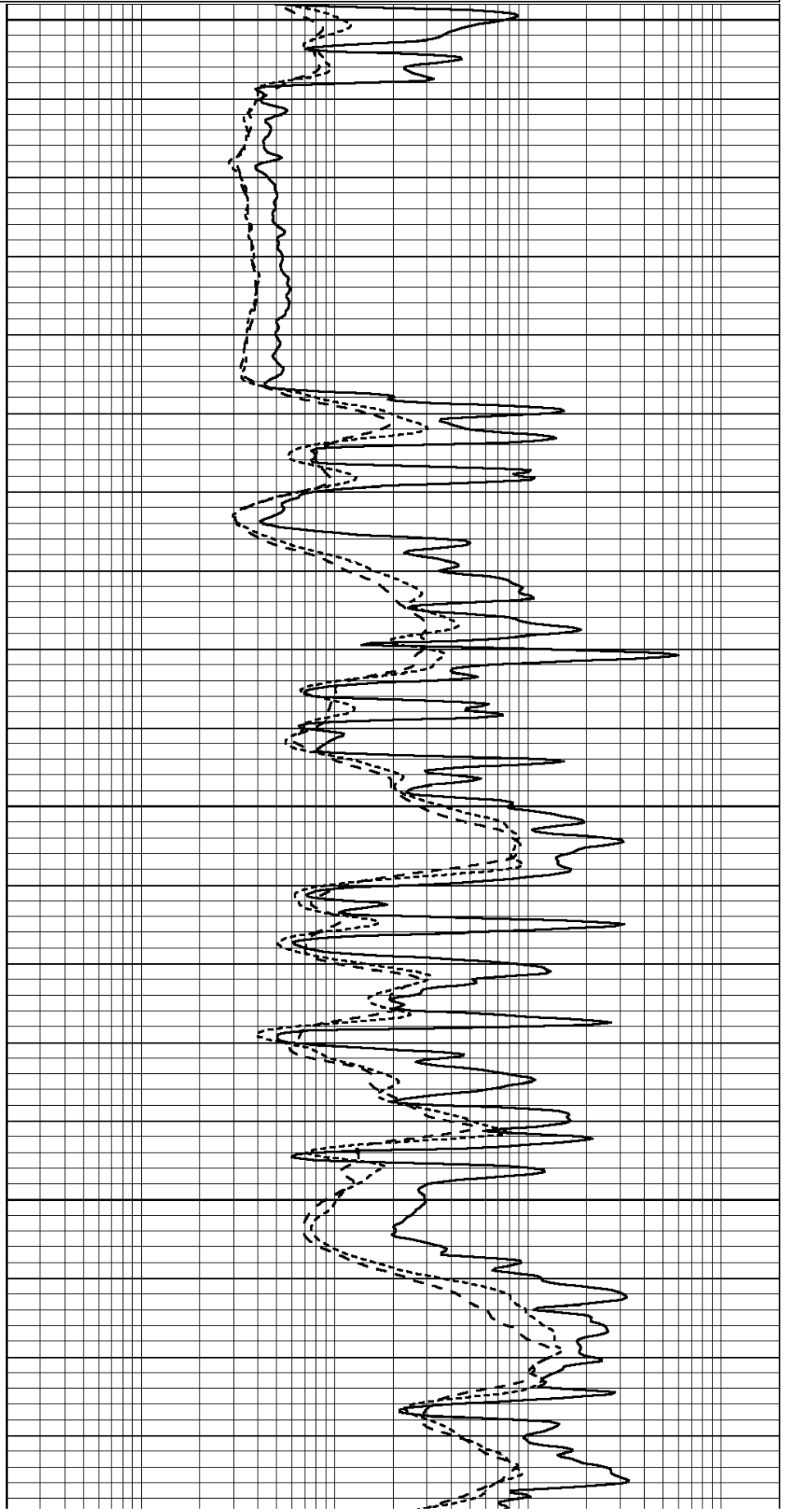
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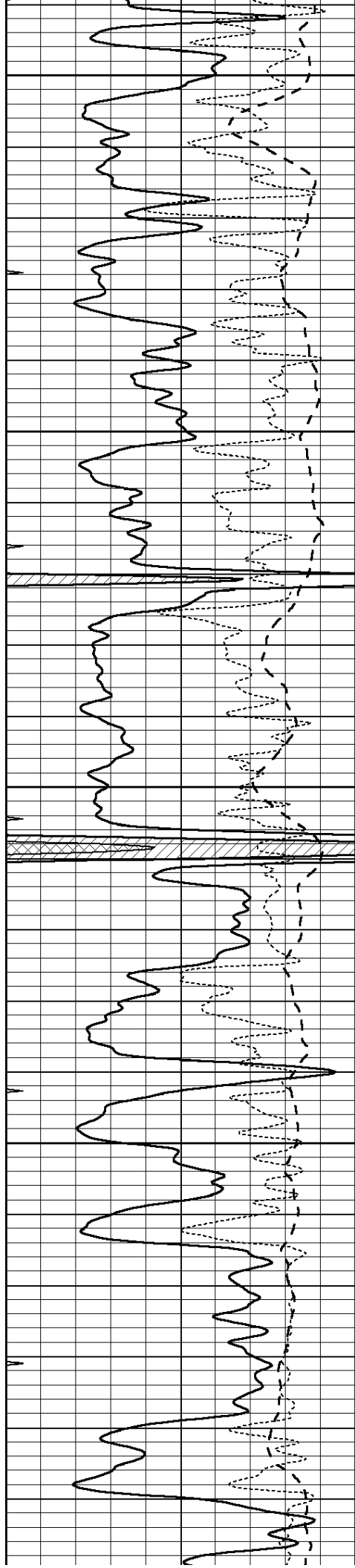
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3650

3700

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





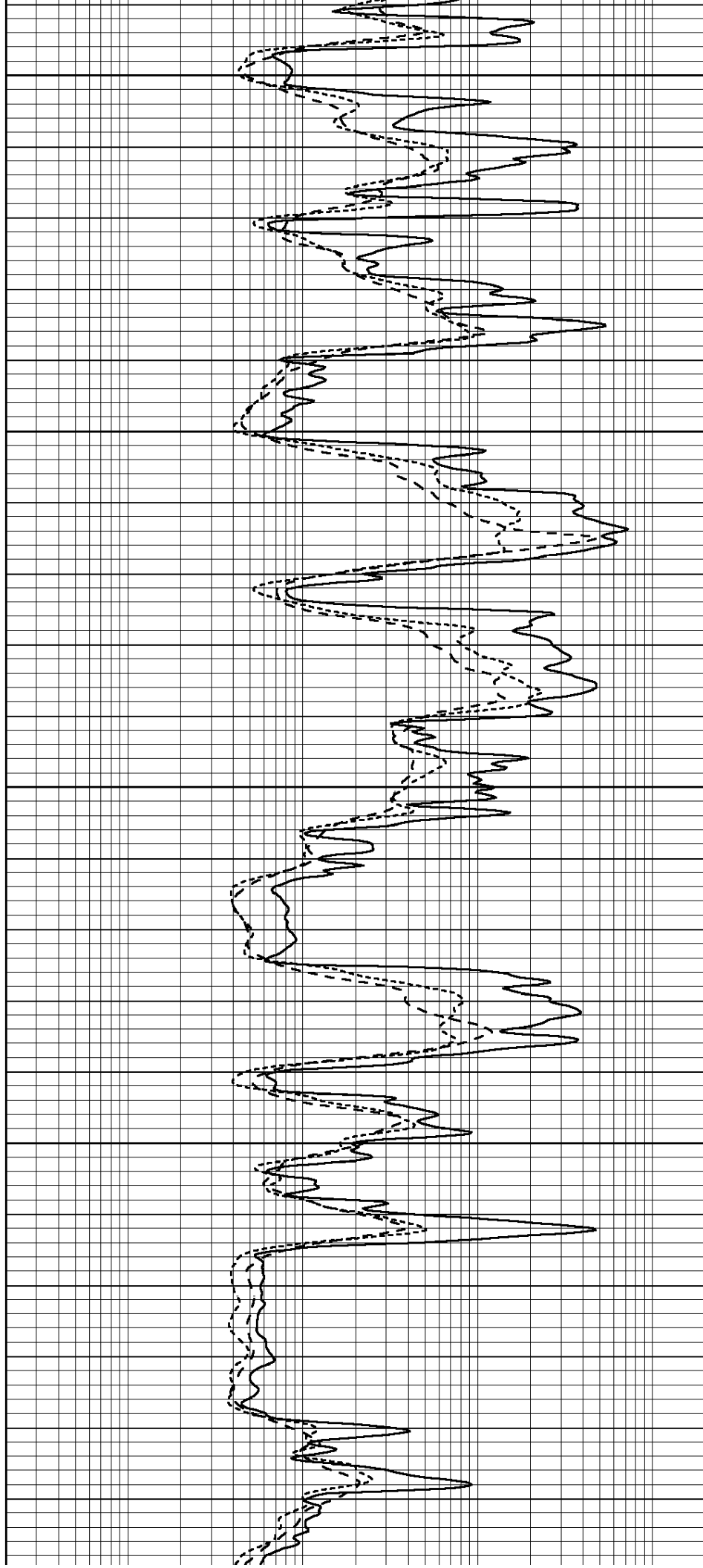
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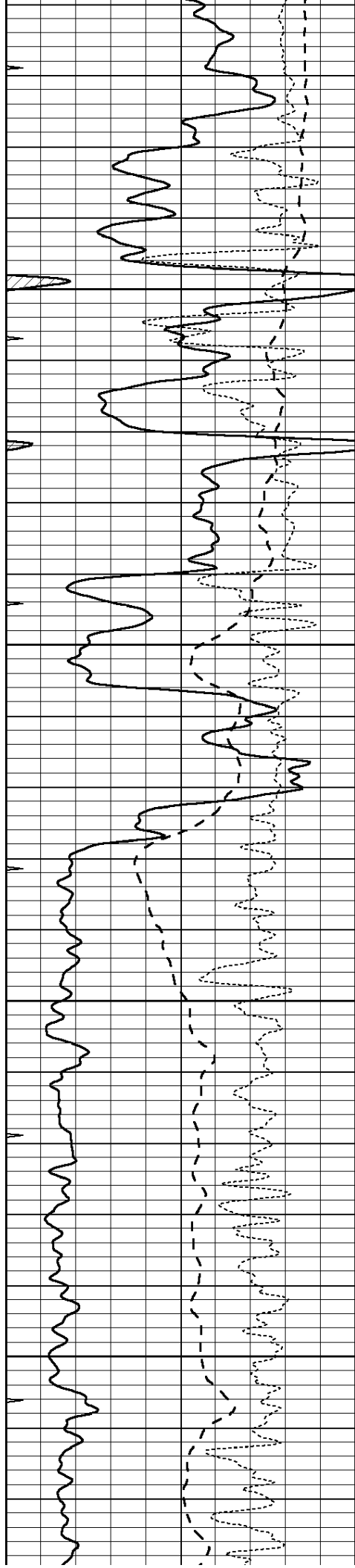
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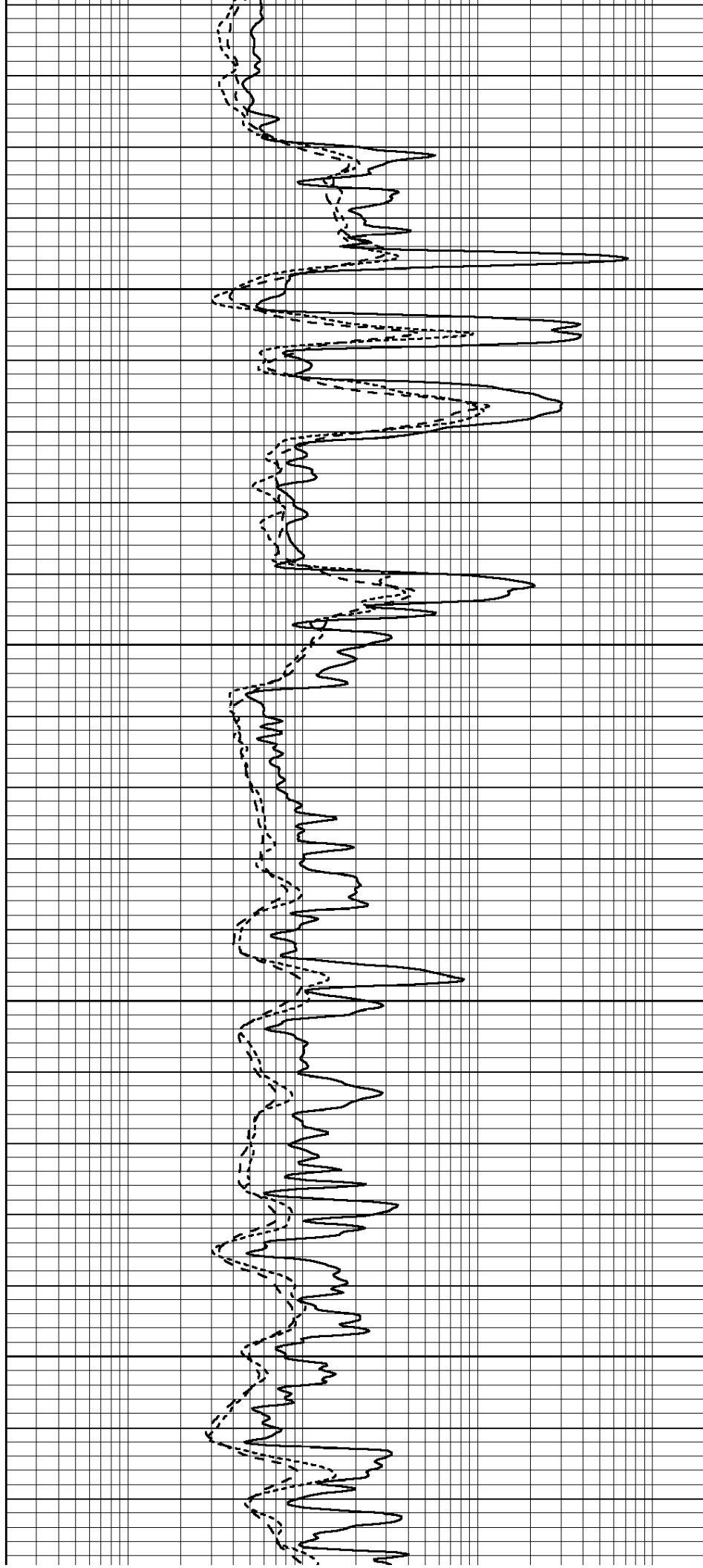


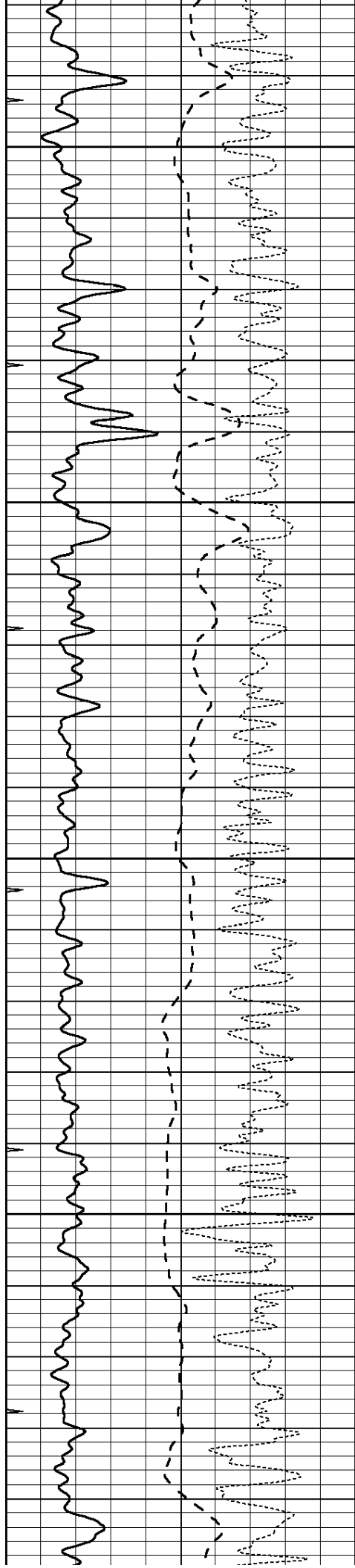
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4100

4150



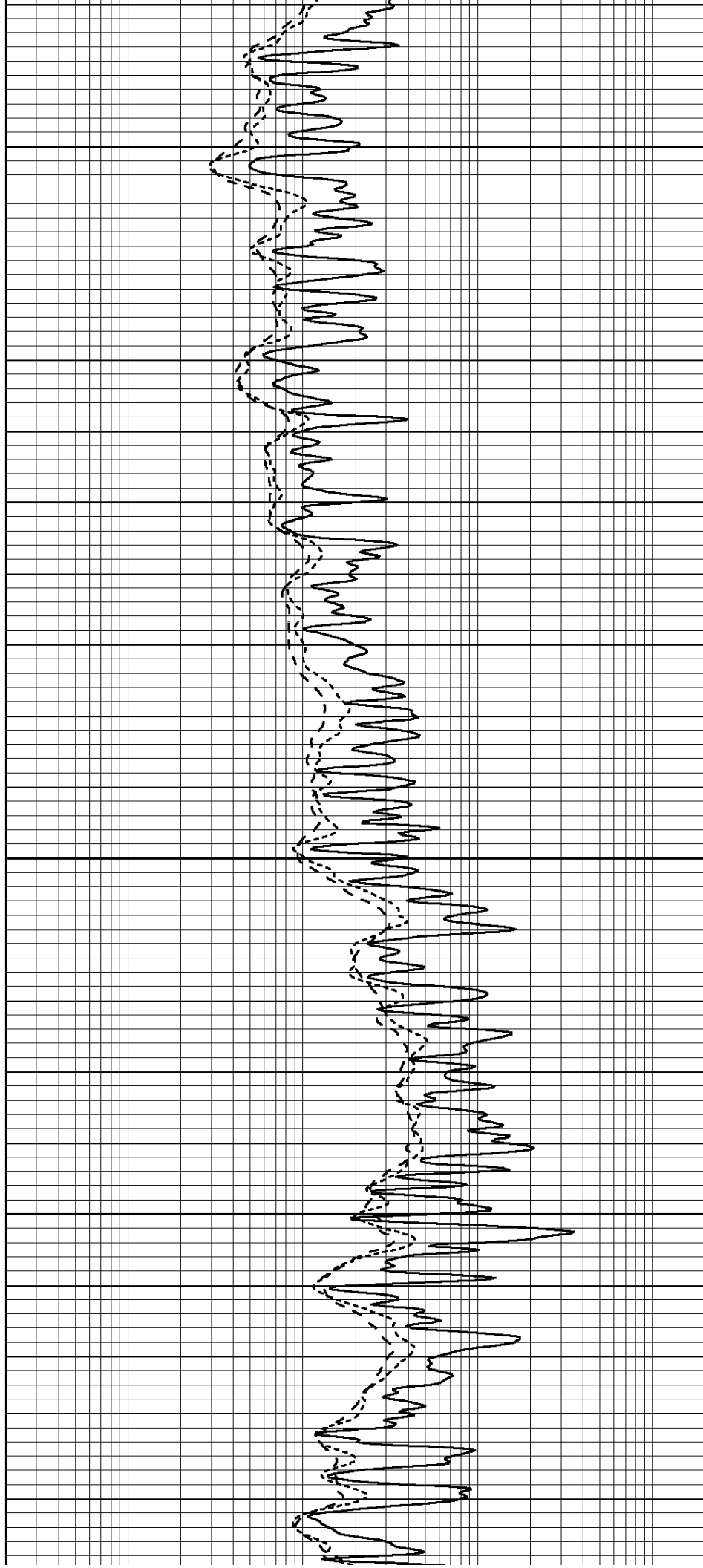


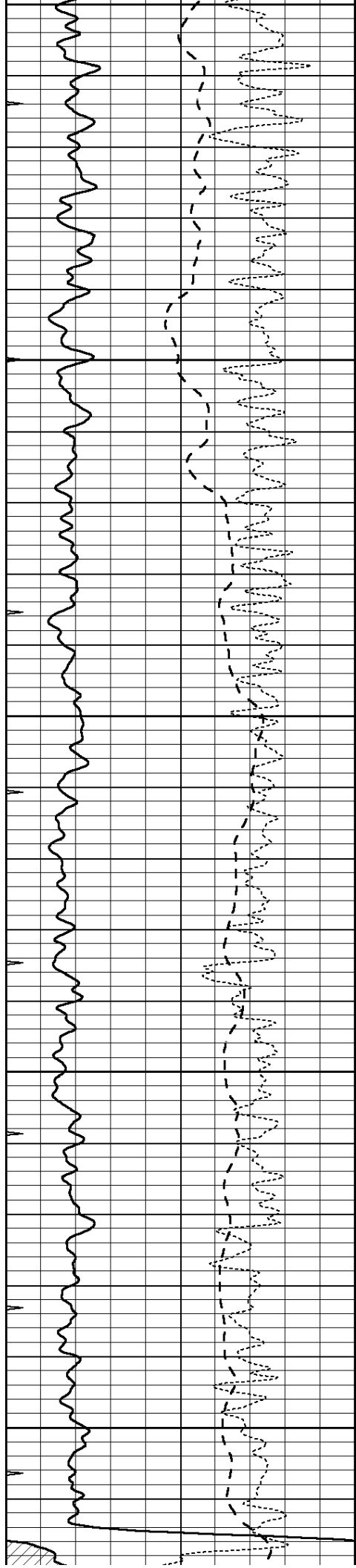
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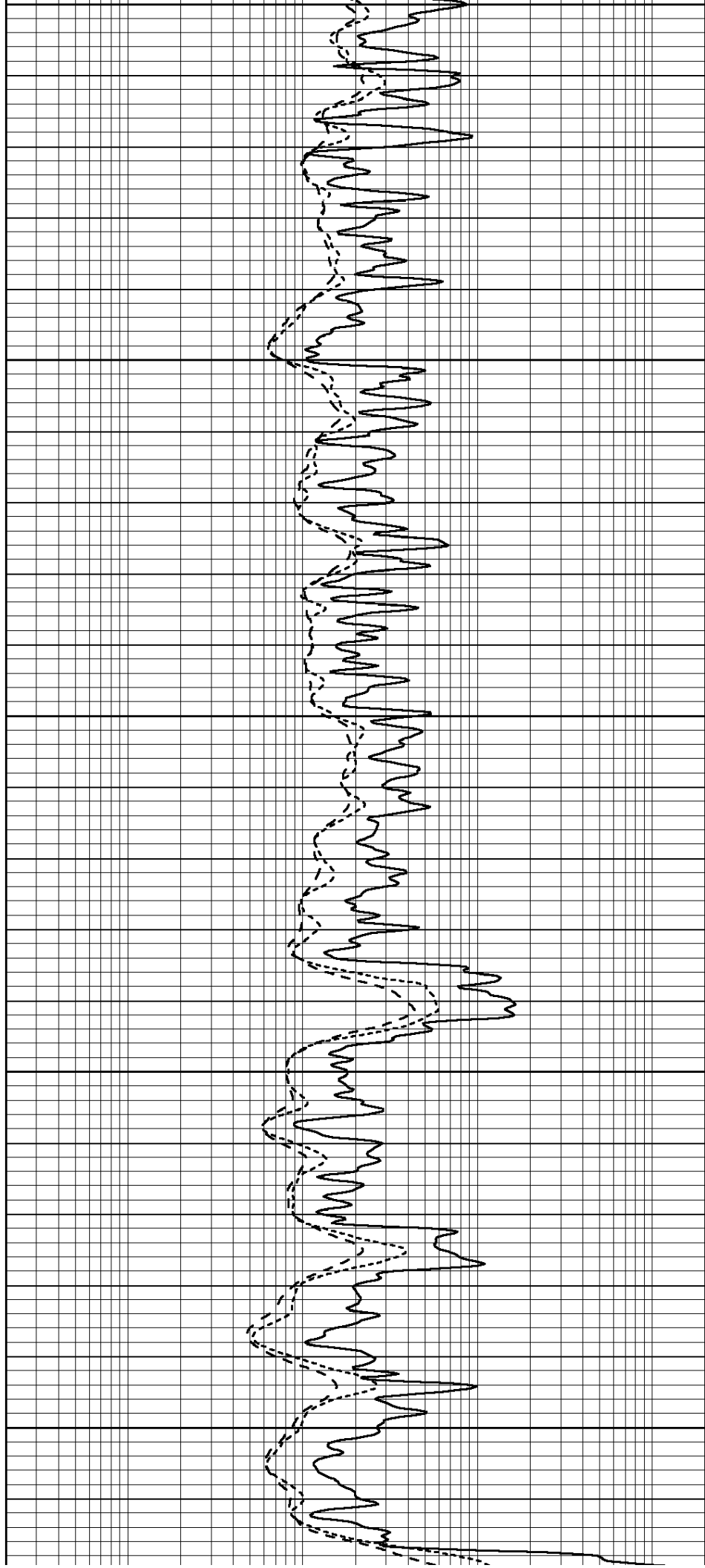
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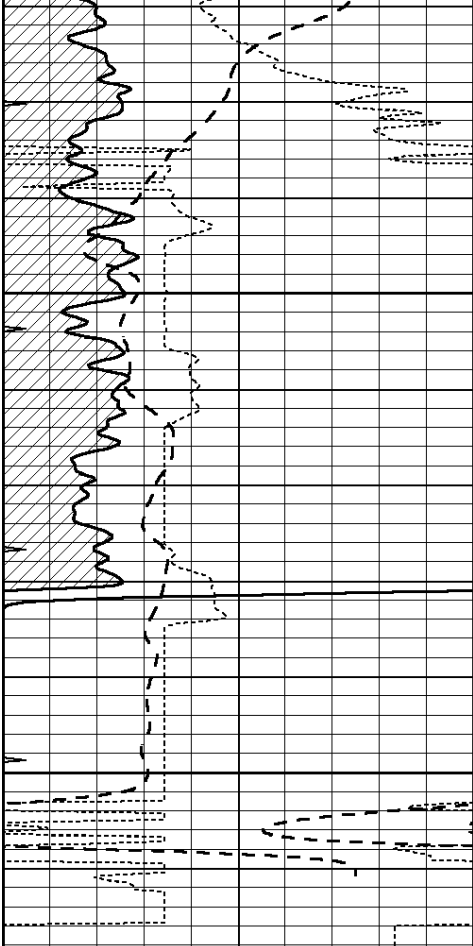
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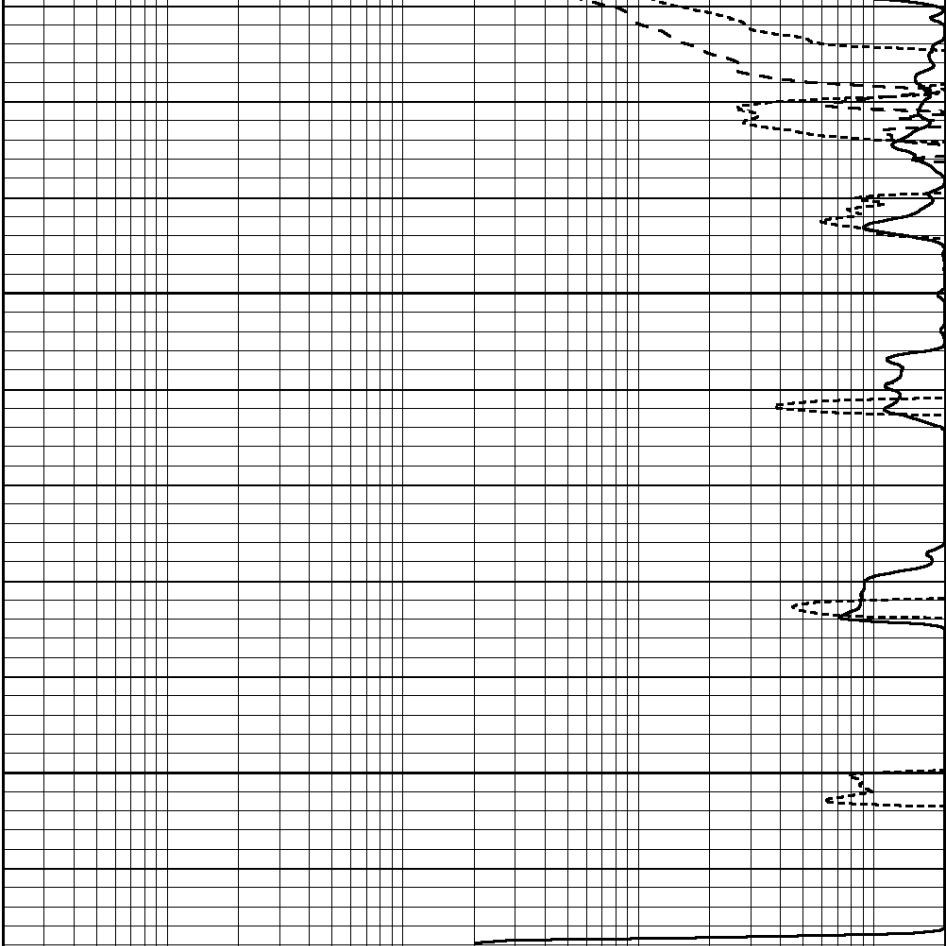




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