



DUAL INDUCTION LOG

Company PHILLIPS EXPLORATION CO., L.C.		Company PHILLIPS EXPLORATION CO., L.C.	
Well GAITHER #2-21		Well GAITHER #2-21	
Field YEP		Field YEP	
County TREGO		County TREGO	
State KANSAS		State KANSAS	
Location: API # : 15-195-23016-00-00		Other Services CDL/CNL MEL	
SEC 21 TWP 14S RGE 24W 660' FNL & 990' FEL			
Permanent Datum Log Measured From Drilling Measured From		GROUND LEVEL Elevation KELLY BUSHING 5' A.G.L. KELLY BUSHING Elevation K.B. 2325 D.F. 2323 G.L. 2320	
Date	08/16/17		
Run Number	ONE		
Depth Driller	4300		
Depth Logger	4299		
Bottom Logged Interval	4297		
Top Log Interval	00		
Casing Driller	8 5/8" @ 218		
Casing Logger	218		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3200 PPM	
Density / Viscosity	9.4/5.1		
pH / Fluid Loss	10.5/6.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.3@80		
Rmt @ Meas. Temp	.96@80		
Rmc @ Meas. Temp	1.57@80		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.87@119		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	119F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	PAT DEENIHAN		

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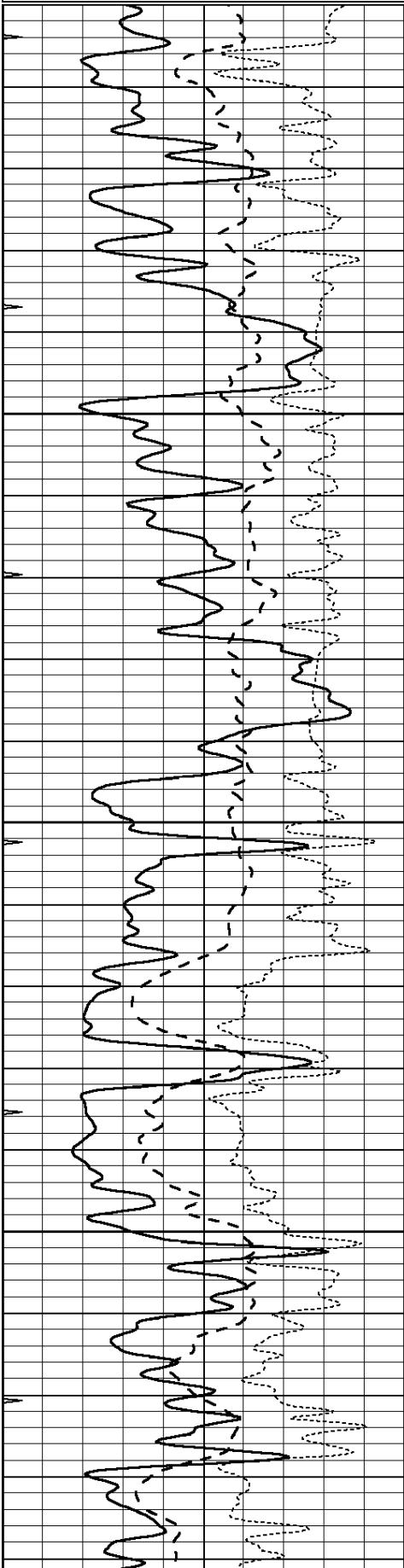
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

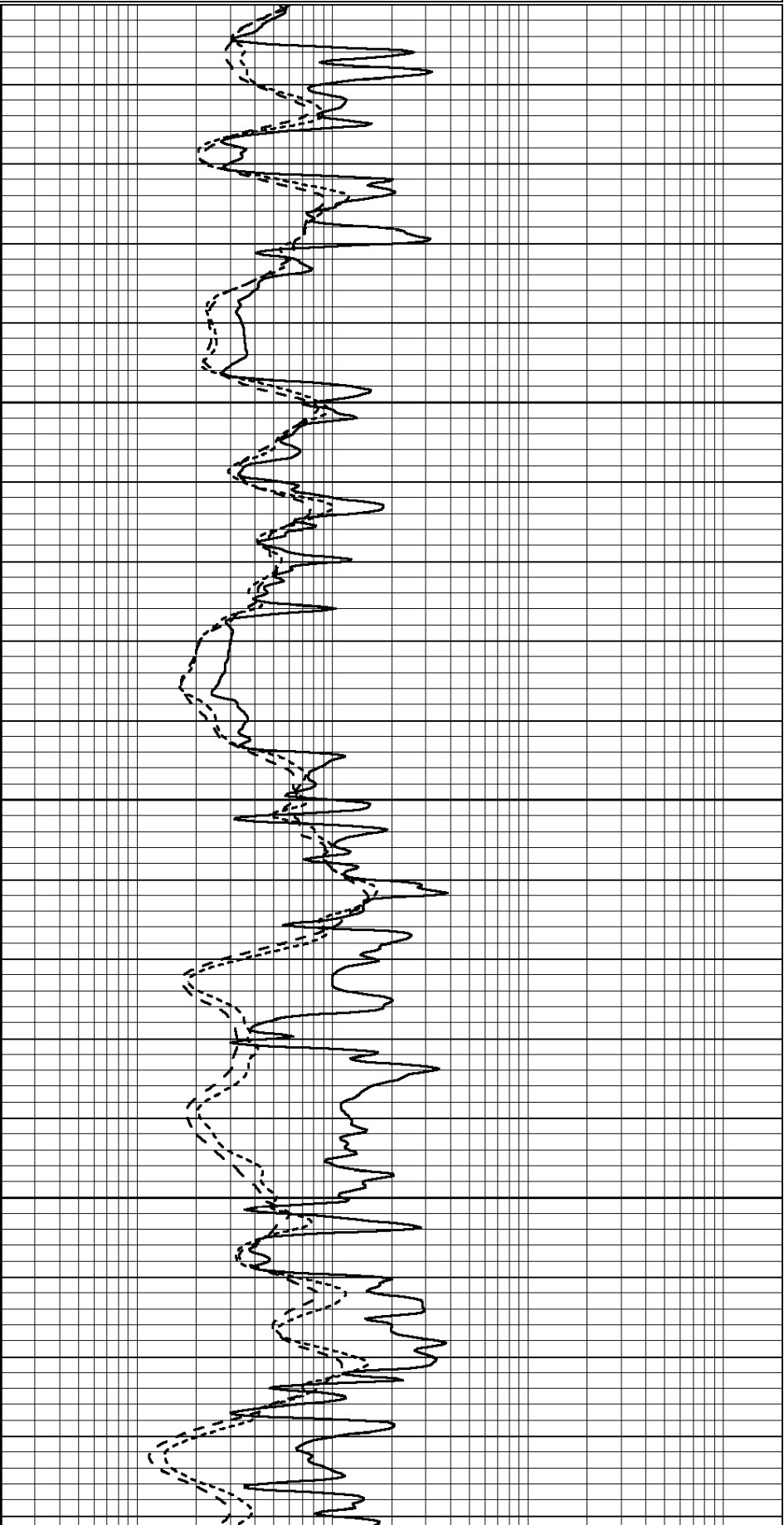
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

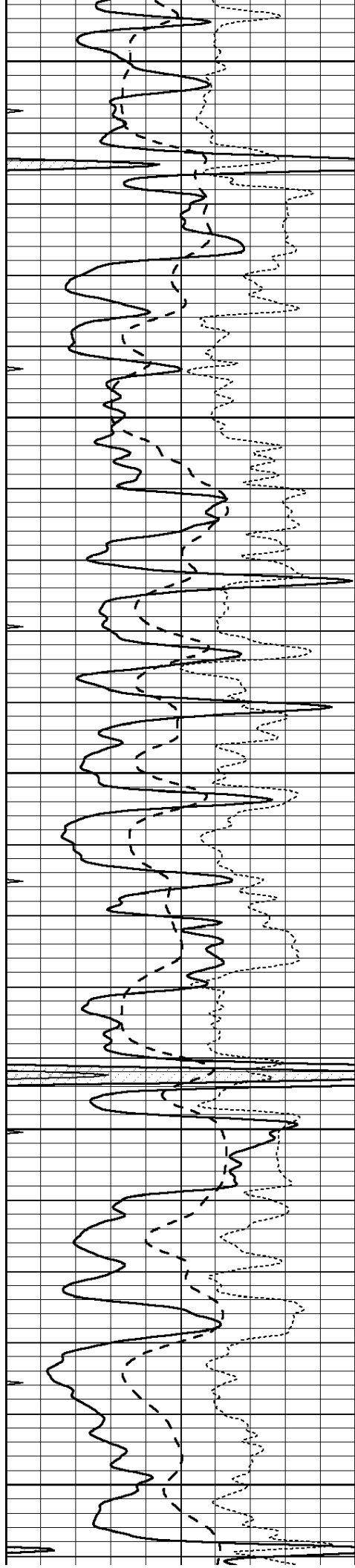
DIRECTIONS
SOUTH OF WAKEENEY TO V RD.
WEST 5 MILES, SOUTH INTO.

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





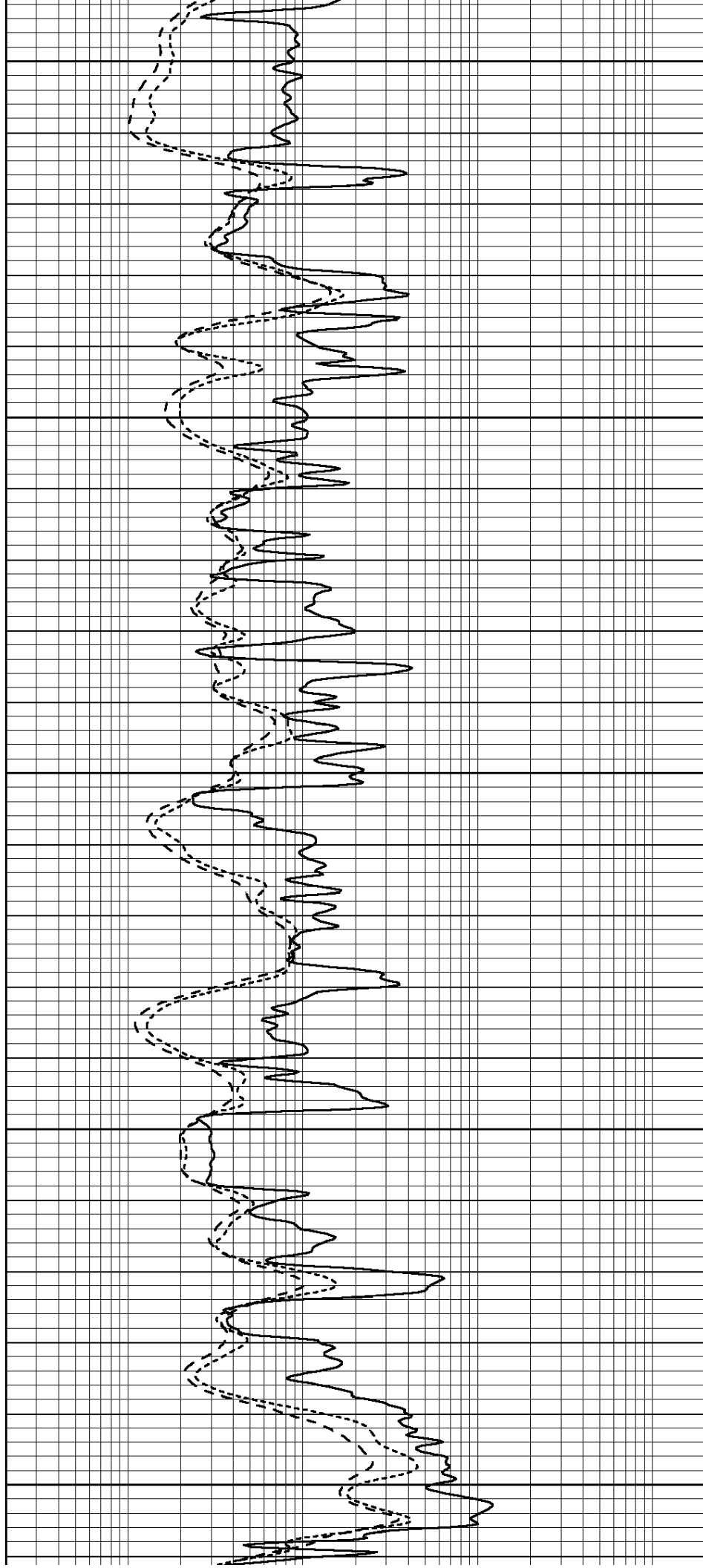
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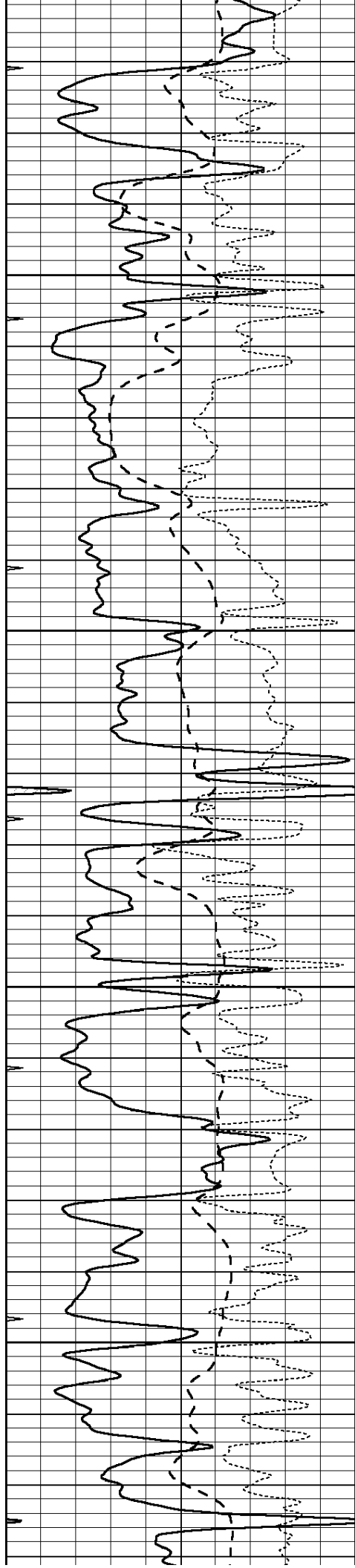
3500

3550

3600

3650



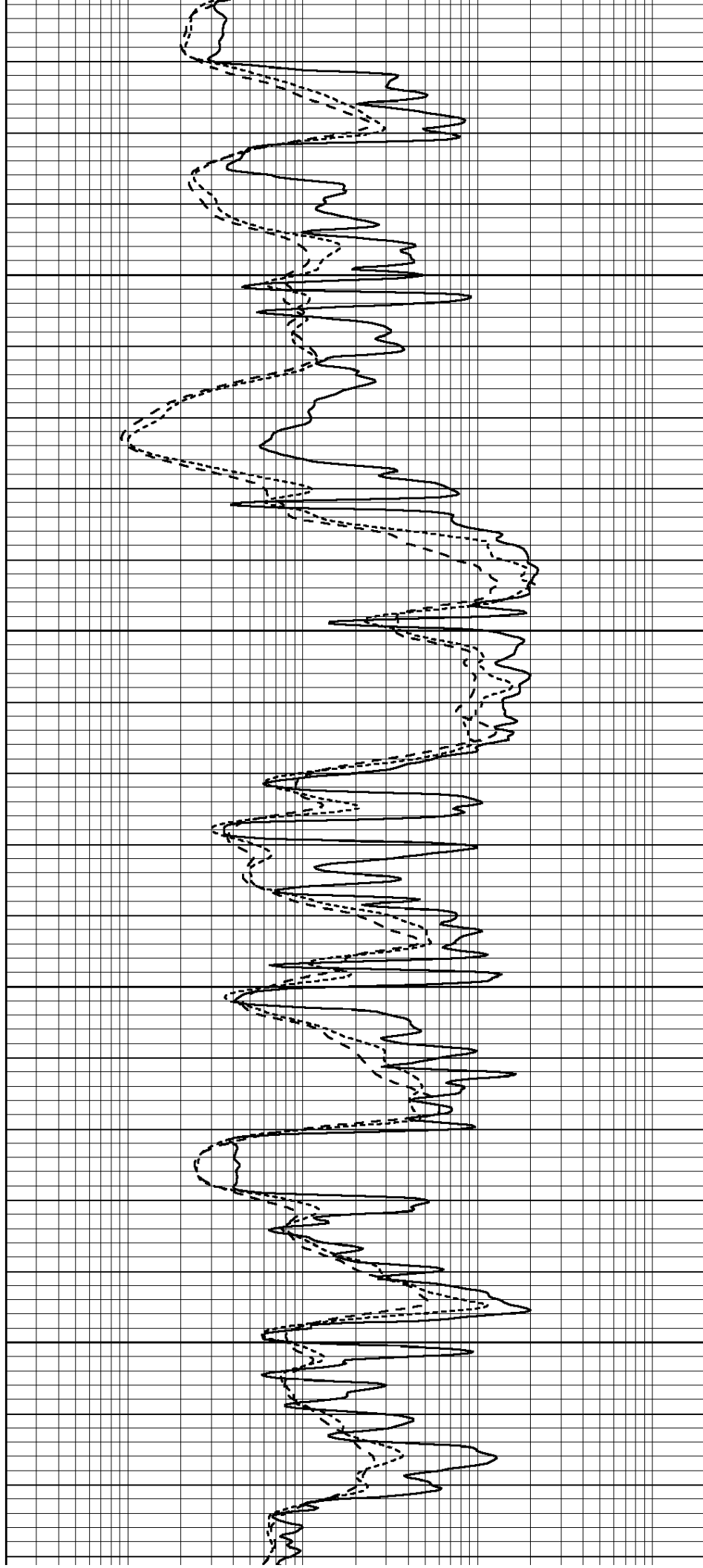


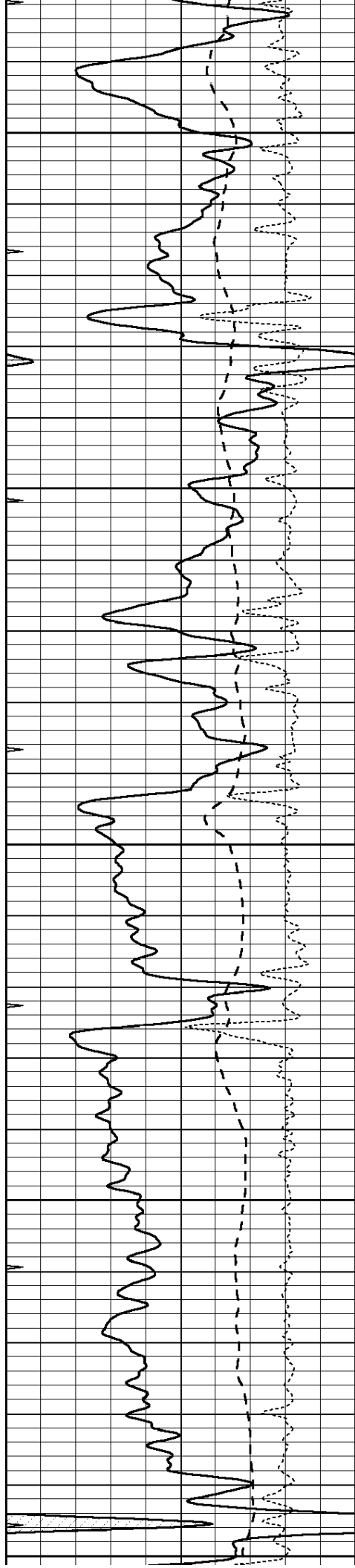
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3750

3800

3850





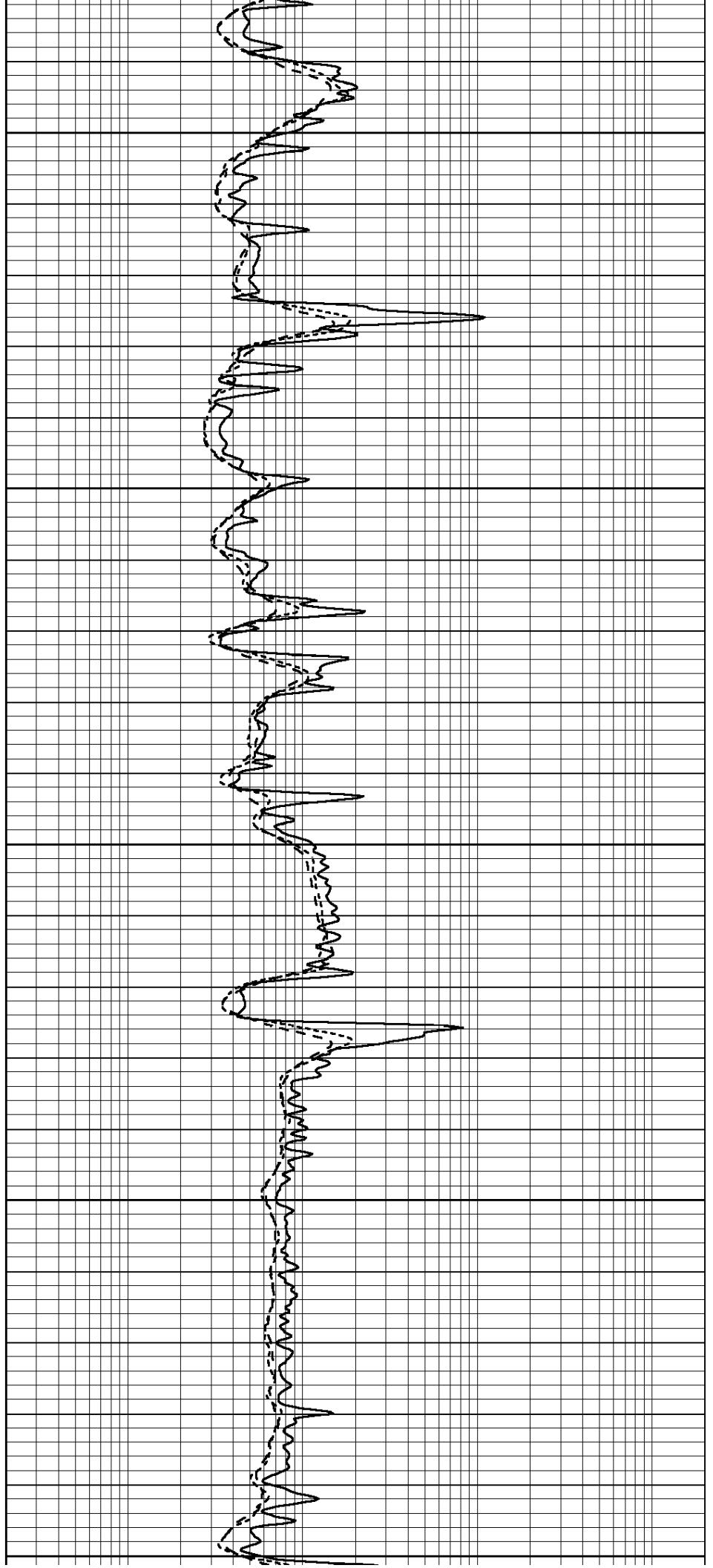
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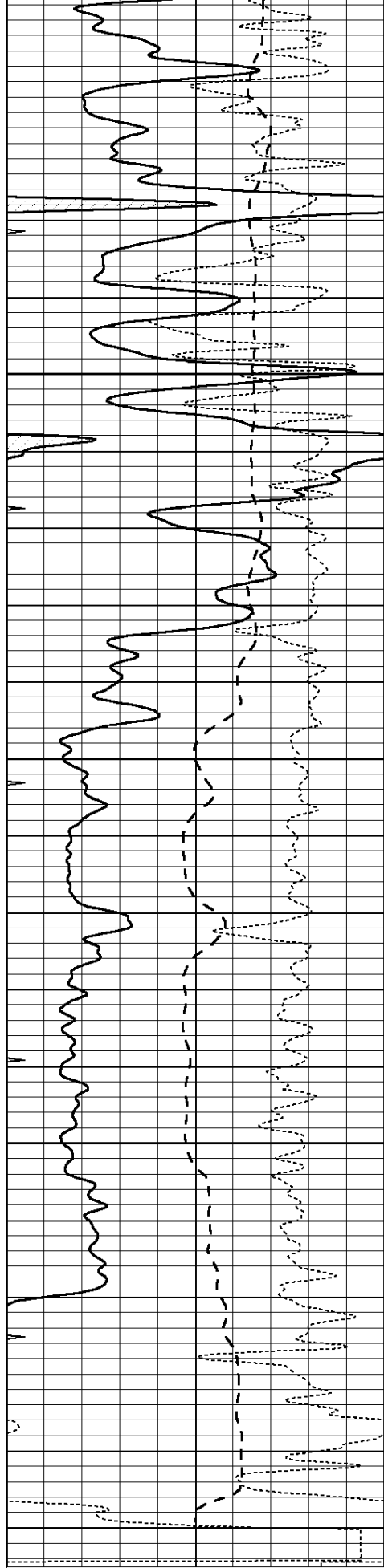
3950

4000

4050

4100





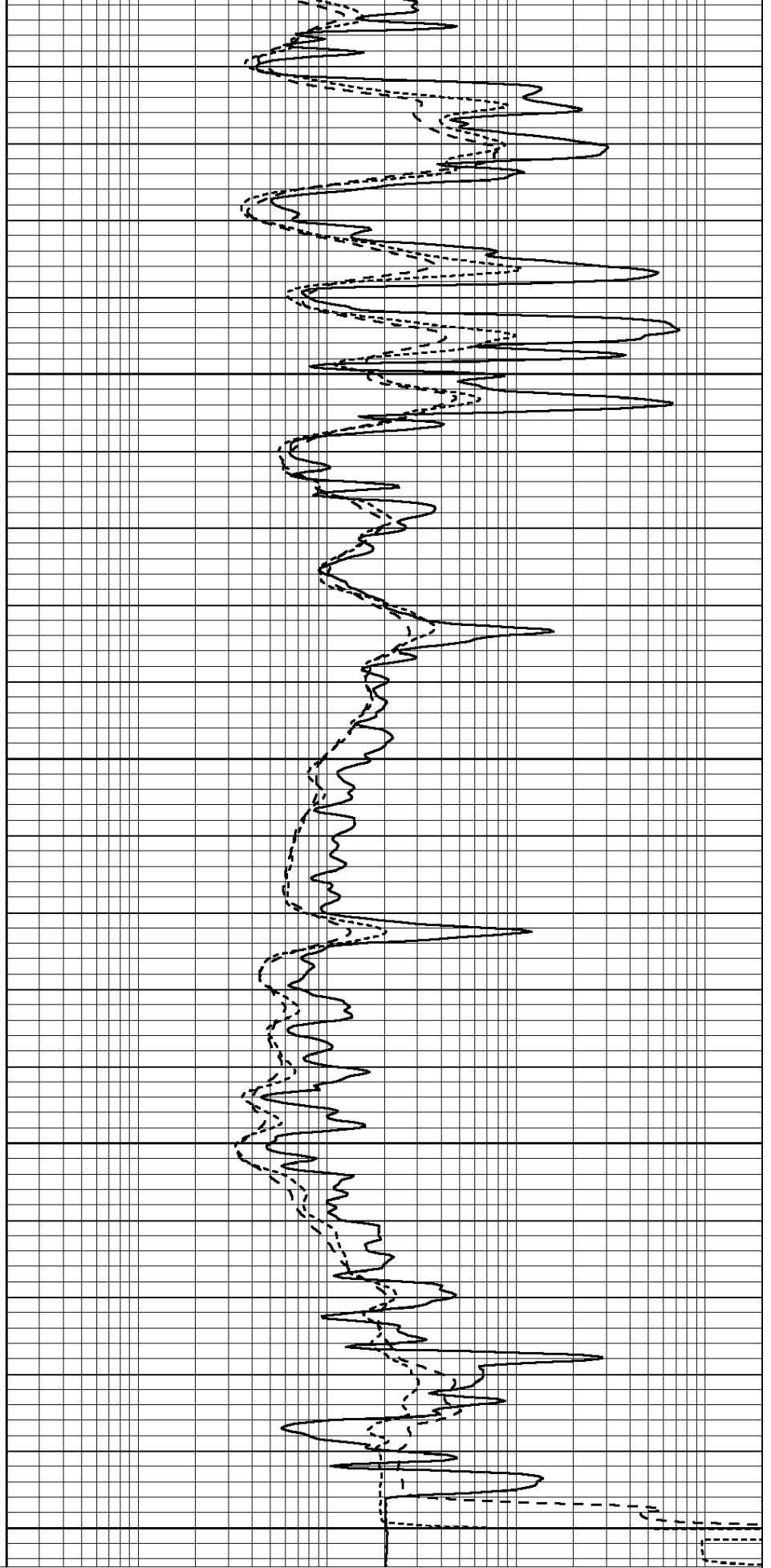
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4150

4200

4250

4300



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