



# DUAL INDUCTION LOG

Company RAYMOND OIL COMPANY, INC. Well MICHAELIS #4 Field ROSE GARDEN NW County LOGAN State KANSAS	Company RAYMOND OIL COMPANY, INC. Well MICHAELIS #4 Field ROSE GARDEN NW County LOGAN State KANSAS
Location: 2349 FSL & 2627' FEL API # : 15-109-21565-00-00	Other Services CDL/CNL/MEL
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 5' A.G.L. KELLY BUSHING
SEC 3 TWP 14S RGE 32W	Elevation K.B. 2828 D.F. 2826 G.L. 2823

Date	10/05/18
Run Number	ONE
Depth Driller	4642
Depth Logger	4642
Bottom Logged Interval	4641
Top Log Interval	50
Casing Driller	8 5/8" @ 260
Casing Logger	260
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.365
pH / Fluid Loss	9.0/10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.7@68
Rmt @ Meas. Temp	.53@68
Rmc @ Meas. Temp	.84@68
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.39@121
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	///
Maximum Recorded Temperature	121F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	KIM SHOEMAKER

<<< Fold Here >>>

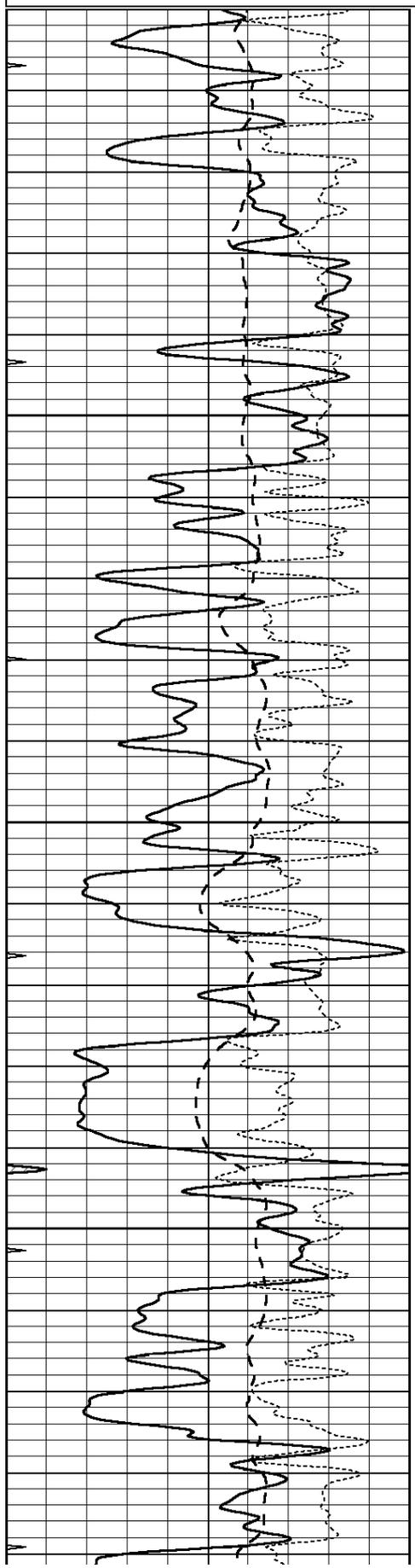
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

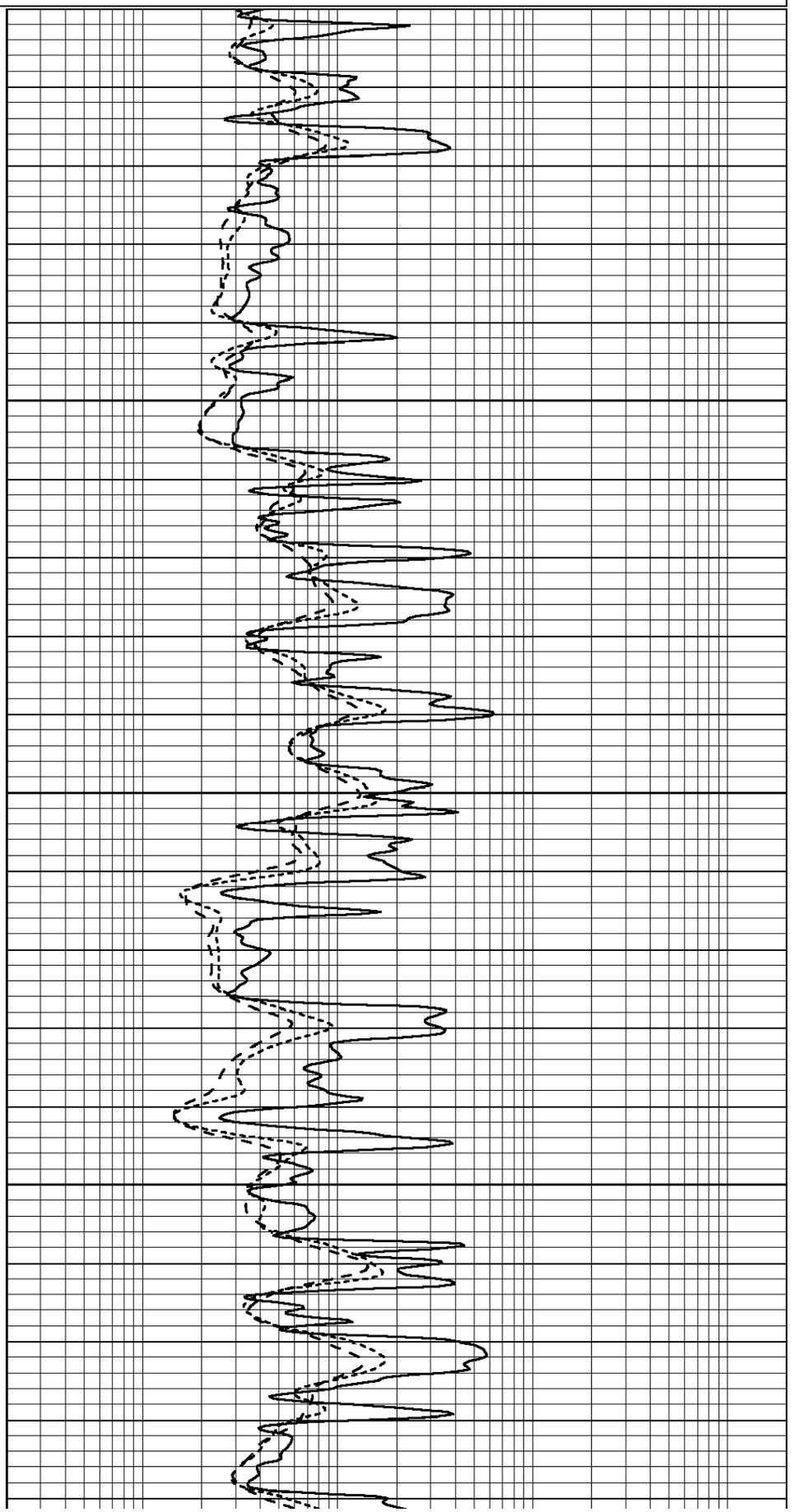
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395  
  
 DIRECTIONS  
 SOUTH OF OAKLEY TO MUSTANG RD(17 MILES).  
 1 WEST, SOUTH EAST INTO.

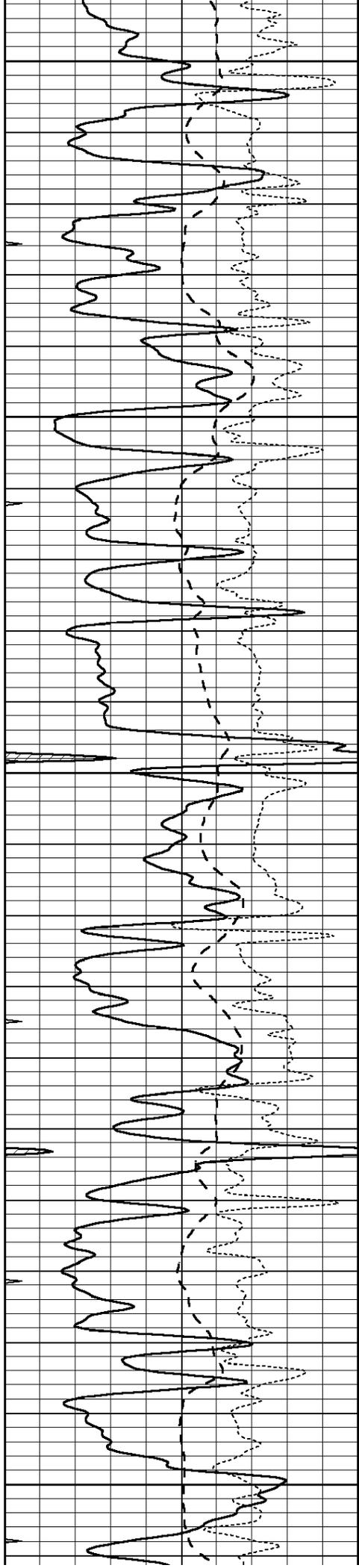
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



3400  
3450  
3500  
3550





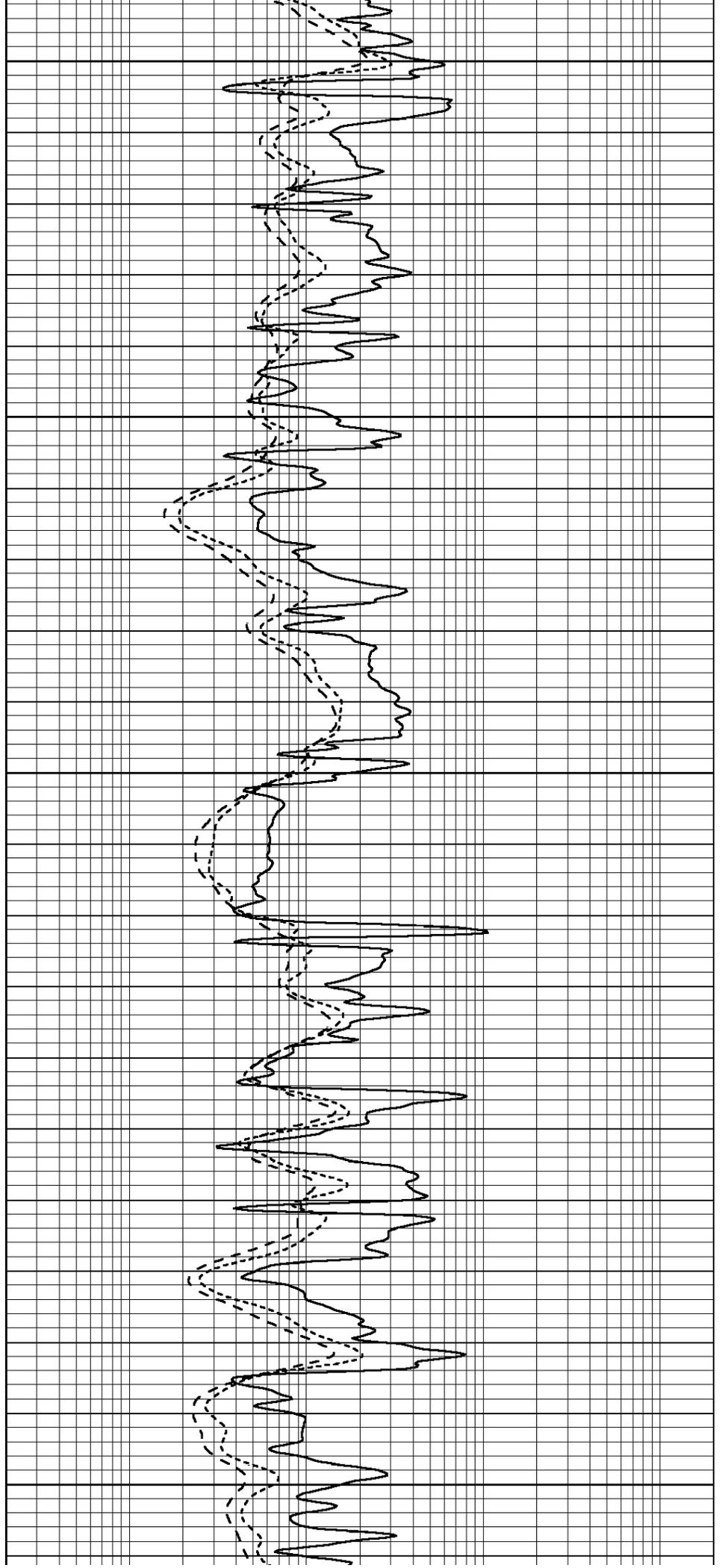
3600

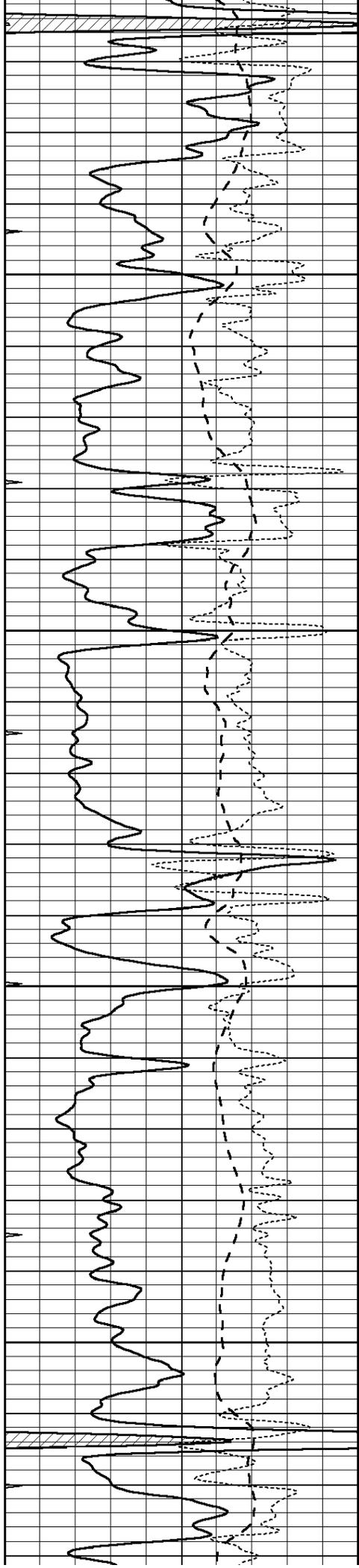
3650

3700

3750

3800



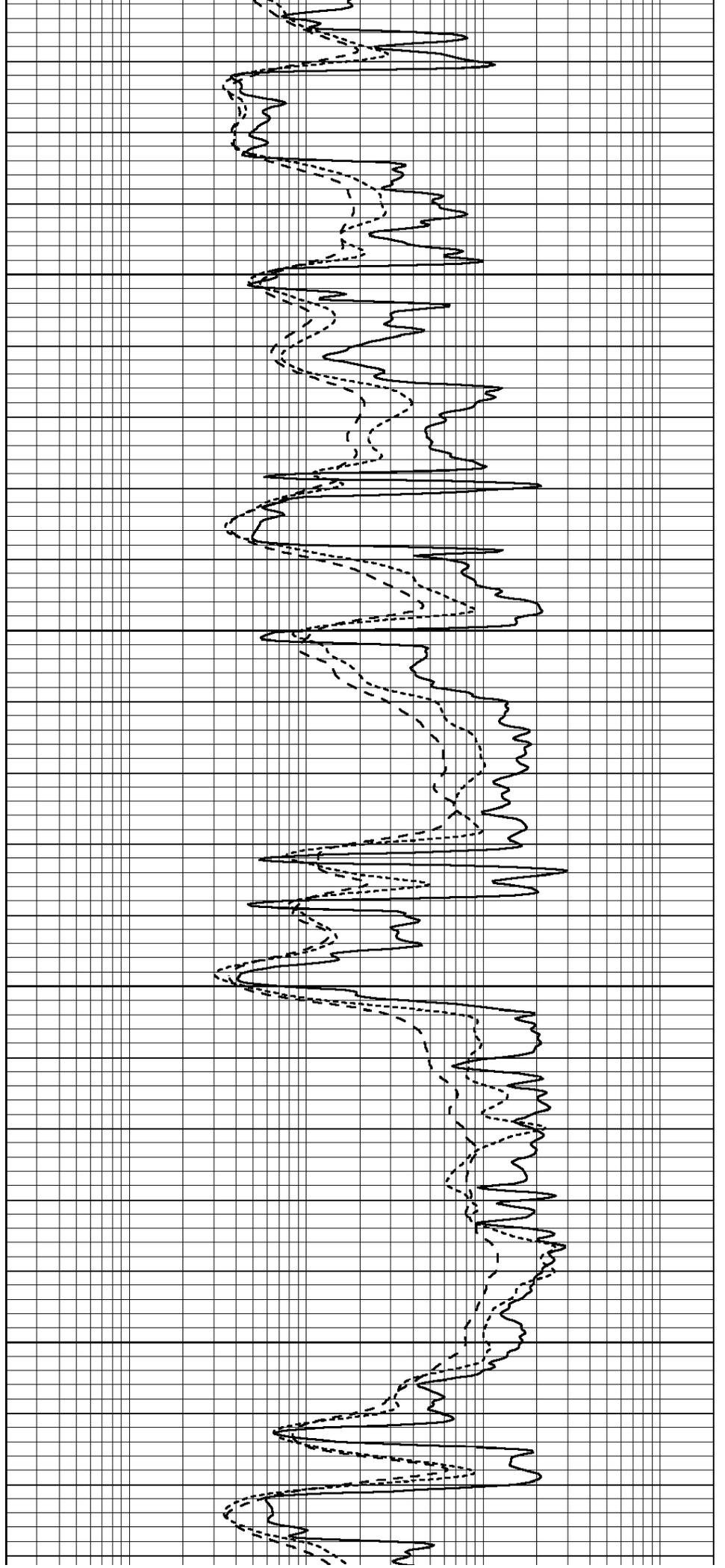


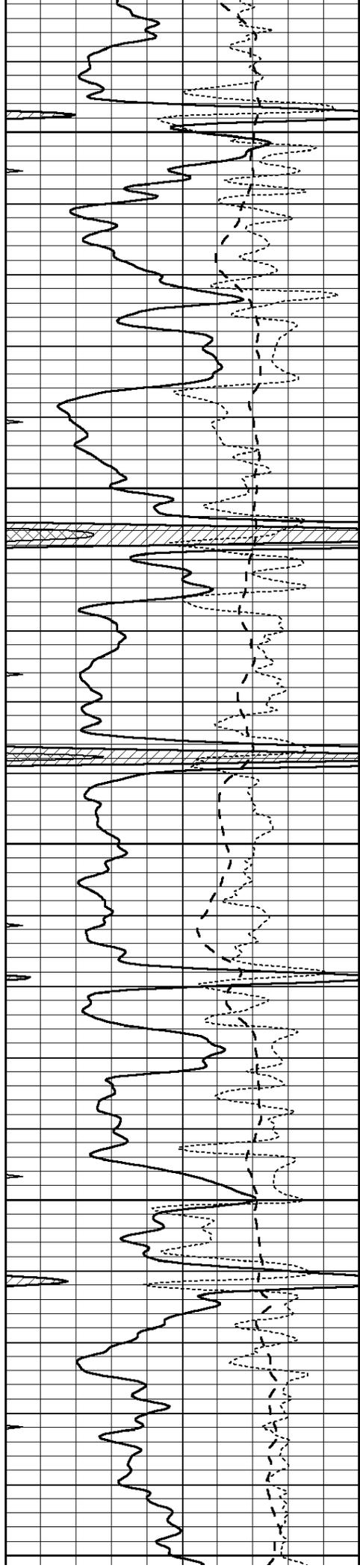
3850

3900

3950

4000





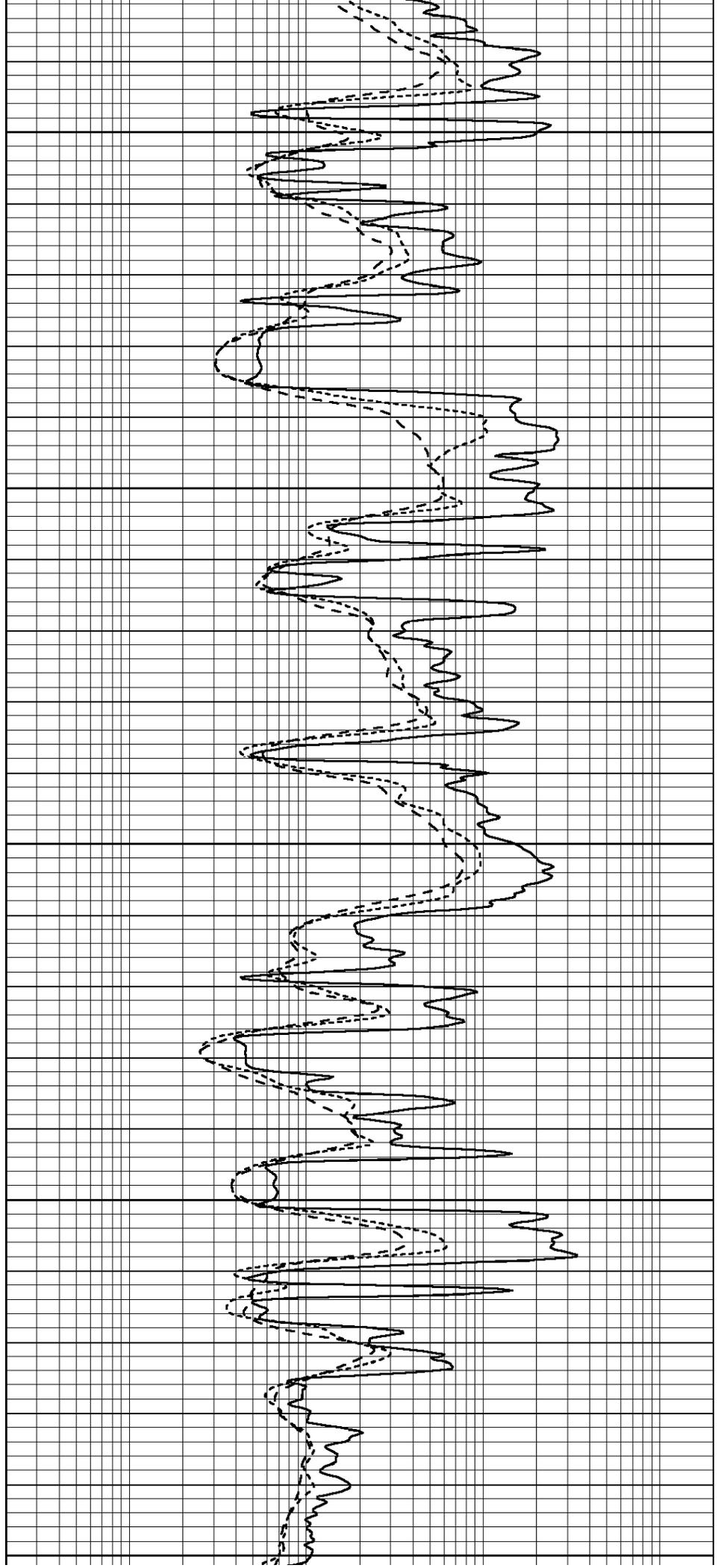
4050

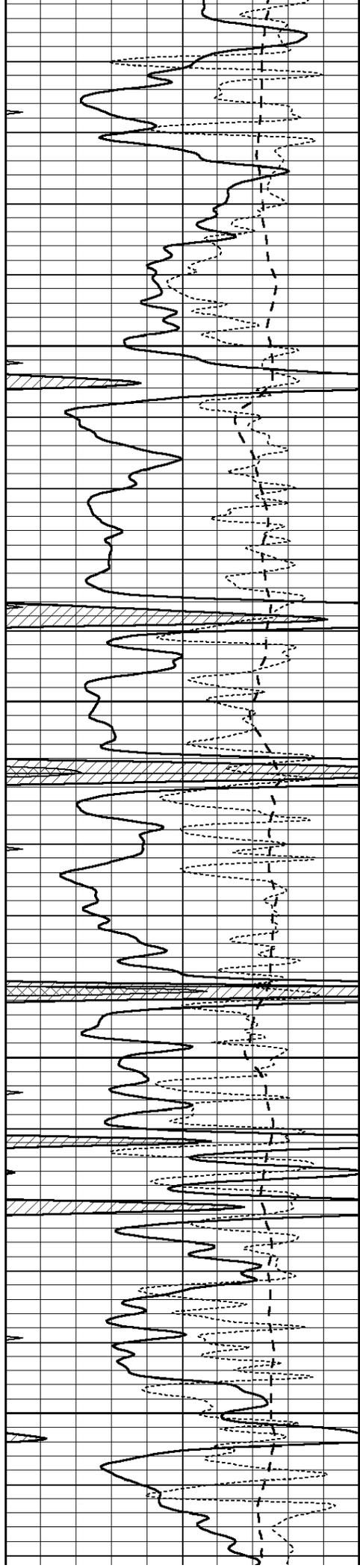
4100

4150

4200

4250



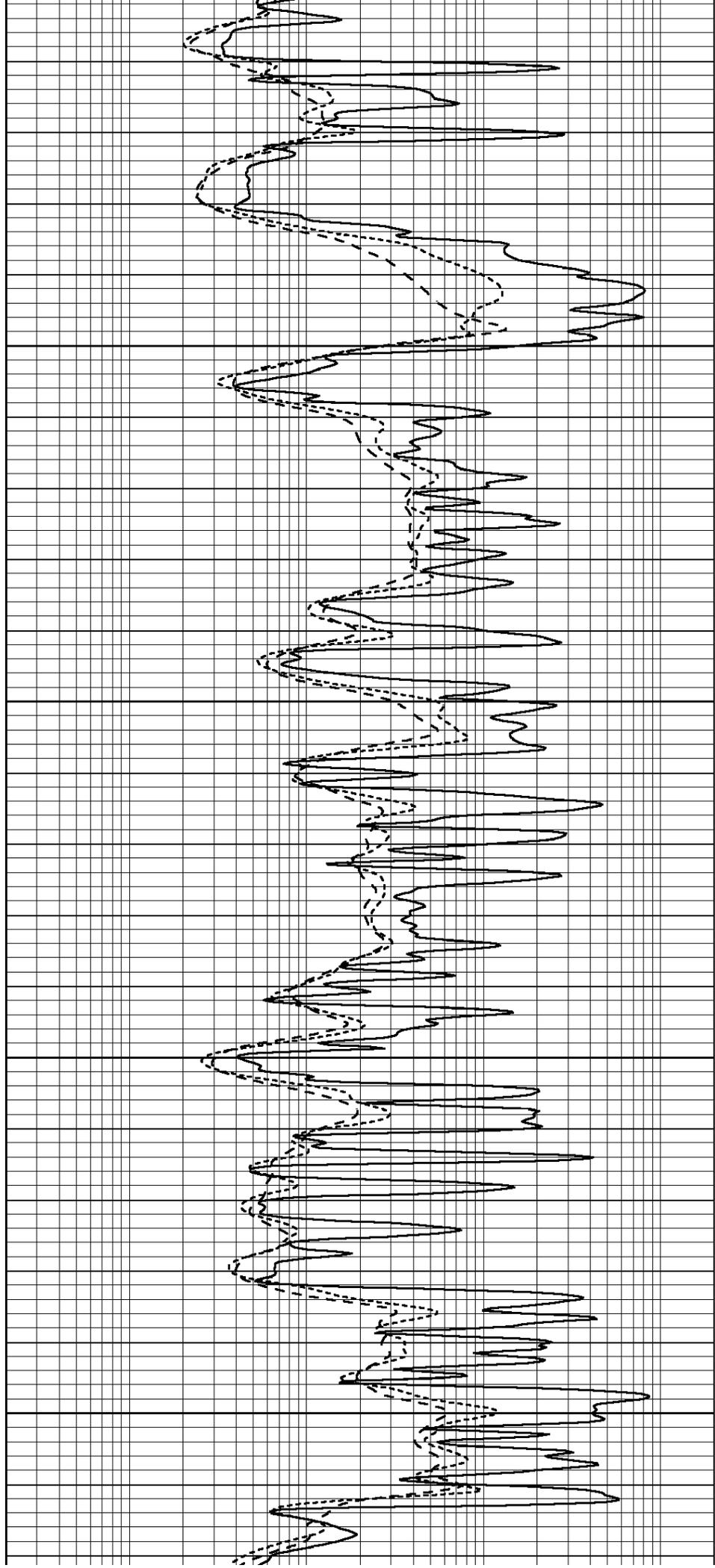


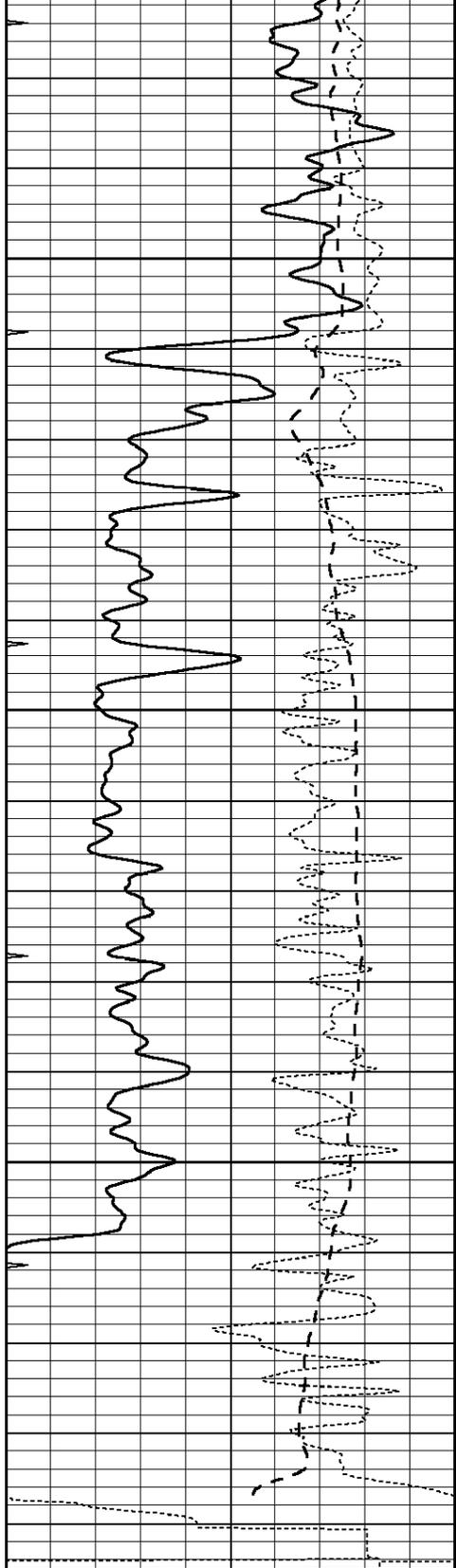
4300

4350

4400

4450



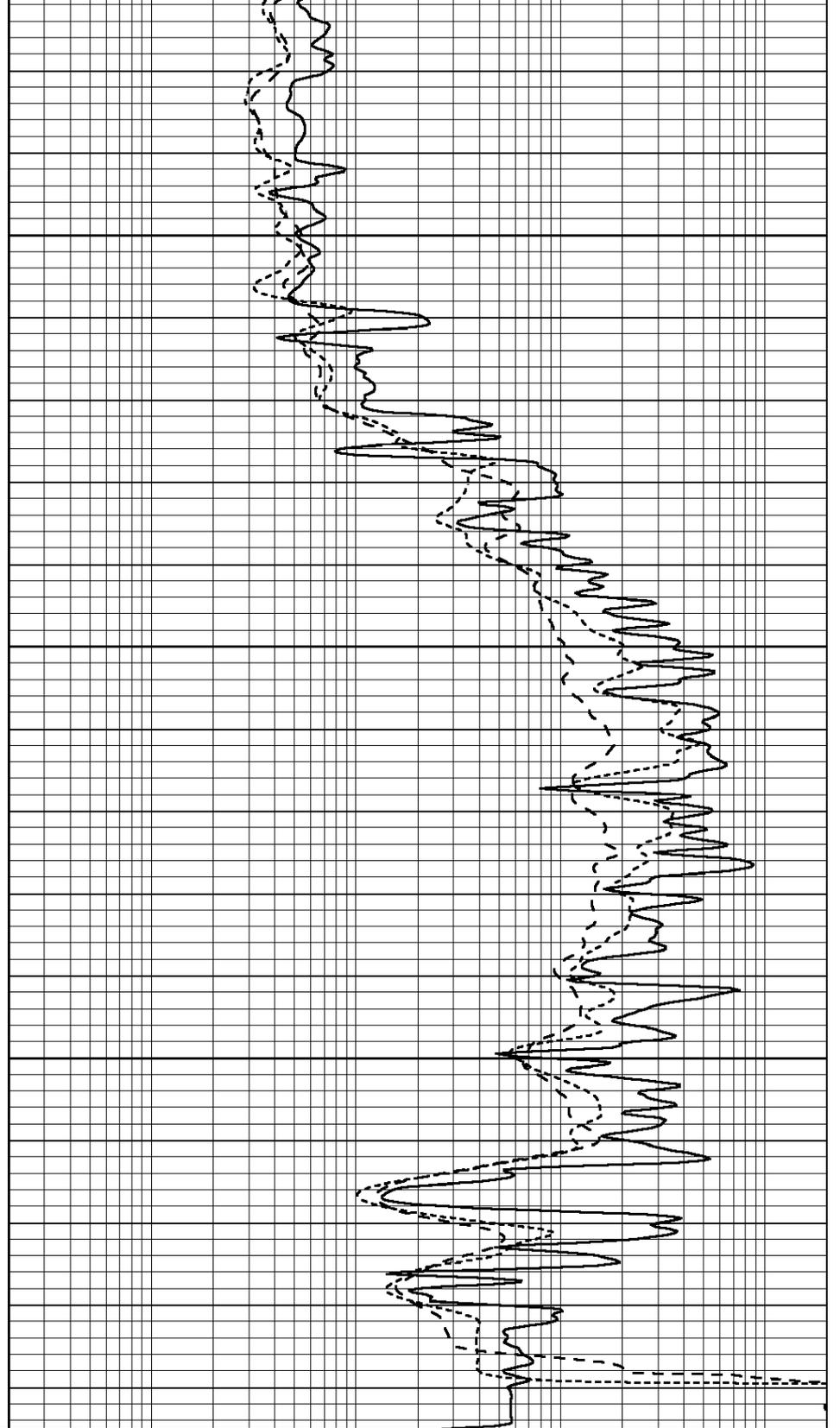


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

4500

4550

4600



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